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1.328 esutils 2.0.3

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1.336.1 Available under license
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1.339.1 Available under license
1.340 google-uuid 1.0.0
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1.341 go-toml 1.2.0
1.341.1 Available under license
1.342 urfave-cli v1.20.0
1.342.1 Available under license
1.343 reflections 0.9.9-RC1
1.343.1 Available under license
1.344 jsesc 2.5.2
1.344.1 Available under license
1.345 util.promisify 1.0.1
1.345.1 Available under license
1.346 apache-aries-jmx-api 1.1.5
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1.348 minlog 1.3.1
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1.349 p-try 2.2.0
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1.350 pkg-dir 4.2.0
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1.355 javassist 3.16.1-GA

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1.356 nose 1.3.7

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1.357 libcap-ng 0.7.9-2.2+b1

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1.358 normalize-css 8.0.1

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1.359 go-homedir 1.1.0

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1.360 go-spew 1.1.1

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1.362 probing 0.0.0-20190116061207-43a291ad63a2

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1.363 pkg 0.0.0-20180928190104-399ea9e2e55f

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1.364 run 1.0.0

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1.365 go-xerial-snappy 0.0.0-20180814174437-776d5712da21

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1.366 go-wordwrap 1.0.0

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1.367 sanitized-anchor-name 1.0.0

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1.378 lz4 1.8.0

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1.379 go-jmespath bd40a432e4c76585ef6b72d3fd96fb9b6dc7b68d

1.379.1 Available under license

1.380 raven-go 0.2.0

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1.381 querystringify 2.2.0

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1.382 openssl 1.1.1i

1.382.1 Available under license

1.383 attr 2.4.48-3.el8

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1.384 rootfiles 8.1-22.el8

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1.385 bzip2 1.0.6-26.el8

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1.387 zstd 1.4.4-1.el8

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1.390 parent-module 1.0.1

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1.392 cssom 0.4.4

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1.393 xml-name-validator 3.0.0

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1.394 braces 3.0.2

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1.397 msgp 1.1.2

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1.398 libnetfilter-conntrack 1.0.6-5.el8

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1.400 libnfnetlink 1.0.1-13.el8

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1.401 libunistring 0.9.10-4

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1.402 dash 0.5.11+git20200708+dd9ef66-5

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1.403 mawk 1.3.4.20200120-2

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1.411 libnetfilter-cttimeout 1.0.0-11.el8

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1.412 whatwg-mimetype 2.3.0

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1.419 uri-js 4.4.1
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1.420 slash 3.0.0
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1.421 diskv 2.0.1+incompatible
1.421.1 Available under license
1.422 httpcomponents-core 4.4.13
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1.423 commons-lang3 2.6
1.423.1 Available under license
1.424 jcommander 1.78
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1.437 ehcache-impl 3.8.1

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1.438 ehcache-xml 3.8.1

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1.439 jakarta-annotation-api 1.3.5

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1.441 hibernate-commons-annotations 5.1.2.Final

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1.445 x-text 0.3.3

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1.452 mapstruct 1.3.1.Final

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1.453 joda-time 2.10.8
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1.454 javax-ws-rs-api 2.0.1
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1.578 @types/parse-json 4.0.0

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1.618 parse-json 5.2.0

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1.619 webidl-conversions 6.1.0

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1.620 resolve-cwd 3.0.0

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1.621 is-wsl 2.2.0

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1.623 sisteransi 1.0.5

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1.624 is-potential-custom-element-name 1.0.1

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1.625 resolve-from 5.0.0

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1.626 jest-pnp-resolver 1.2.2

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1.627 @types/graceful-fs 4.1.5

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1.628 test-exclude 6.0.0
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1.654 p-locate 5.0.0

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1.1503 github.com/facebookgo/clock 0.0.0-20150410010913-600d898af40a

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1.1504 @babel/plugin-syntax-class-static-block 7.14.5

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1.2627 github.com/jinzhu/now 1.1.1

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1.2629 go-uber-org-zap 1.17.0

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1.4003 rcrowley-gometrics 0.0.0-20201227073835-cf1acfcdf475

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1.4004 pq 1.10.9

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1.4008 sigs-k8s-io-yaml 1.3.0

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1.4009 sigs.k8s.io/json 0.0.0-20221116044647-bc3834ca7abd

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1.4013 run 1.1.0

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1.4014 github.com/alecthomas/kingpin/v2 2.4.0

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1.4016 github.com/go-sourcemap/sourcemap 2.1.3+incompatible

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1.4017 seed 0.0.0-20170313163322-e2103e2c3529

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1.4018 olekukonko-tablewriter 0.0.5

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1.4019 docutils 0.21.2

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1.4022 common 0.53.0

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1.4023 prometheus-common 0.53.0

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1.4025 gocontrolplane 0.11.1

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1.4026 github.com/cncf/xds/go 0.0.0-20231109132714-523115ebc101

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1.4027 go.uber.org/atomi 1.10.0

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1.4042 typing-extensions 4.5.0

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1.4043 github.com/dennwc/ioctl 1.0.0

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1.4044 github.com/hashicorp/go-envparse 0.1.0

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1.4045 github.com/prometheus-community/go-runit 0.1.0

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1.4046 perf-utils 0.7.0

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1.4054 qdisc 1.0.0

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1.4055 github.com/mdlayher/ethtool 0.1.0

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1.4056 masterminds-semver 3.2.1

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1.4219 github.com/sigstore/rekor 1.3.6

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1.4259 nats-go 1.34.1

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1.4260 cloud.google.com/go/auth/oauth2adapt 0.2.2

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1.4261 gopkg.in/evanphx/json-patch.v4 4.12.0

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1.4264 github.com/sigstore/fulcio 1.4.5

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1.4269 github.com/jhump/protoreflect 1.16.0

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1.4278 github.com/docker/distribution/cmd/registry 2.8.3

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1.4279 commons-compress 1.26.2

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1.4463 github.com/grafana/regexp 0.0.0-20240518133315-a468a5bfb3bc

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1.4464 github.com/azure/azure-sdk-for-go/sdk/resourcemanager/compute/armcompute/v5 5.7.0

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1.4465 github.com/code-hex/go-generics-cache 1.5.1

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1.4625 github.com/shurcool/sanitized_anchor_name 1.0.0

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1.4626 github.com/azure/azure-sdk-for-go 68.0.0+incompatible

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1.4627 github.com/azure/azure-sdk-for-go 59.2.0+incompatible

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1.4628 github.com/masterminds/sprig 2.22.0+incompatible

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1.4634 github.com/pelletier/go-toml/v2 2.2.2

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1.4662 google.golang.org/genproto/googleapis/rpc 0.0.0-20240708141625-4ad9e859172b

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1.4663 github.com/cyphar/filepath-securejoin 0.3.1

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1.4664 github.com/letsencrypt/boulder 0.0.0-20240418210053-89b07f4543e0

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1.4666 github.com/google/go-containerregistry 0.20.0

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1.4667 github.com/moby/sys/mountinfo 0.7.2

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1.4668 github.com/sigstore/sigstore 1.8.4

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1.5226 cloud.google.com/go/auth 0.7.2
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1.5227 google-golang-org-api 0.189.0
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1.5248 iproute 6.11.0-r0

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1.5249 go.opentelemetry.io/contrib/propagators/jaeger 1.28.0

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1.5250 github.com/azure/azure-sdk-for-go/sdk/azcore 1.13.0

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1.5251 github.com/mfridman/interpolate 0.0.2

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1.5252 github.com/moby/spdystream 0.4.0

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1.5253 github.com/azure/azure-sdk-for-go/sdk/internal 1.10.0

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1.5254 guava 33.3.1-jre

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1.5255 commons-io 2.17.0

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1.5264 kubernetes-apimachinery 0.31.1

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1.5265 github.com/prometheus-community/postgres_exporter 0.15.0

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1.5266 x-time 0.6.0

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1.5725 github.com/jackc/pgservicefile 0.0.0-20240606120523-5a60cdf6a761

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1.6014 contrib-instrumentation-net-http-otelhttp 0.46.1

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1.6026 contrib-instrumentation-google.golang.org-grpc-otelgrpc 0.49.0

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1.6183 @babel/helper-compilation-targets/node_modules/semver 6.3.1

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1.6225 workbox-build/node_modules/webidl-conversions 4.0.2

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1.6226 react-dev-utils/node_modules/color-convert 2.0.1

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1.6230 jake/node_modules/chalk 4.1.2

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1.6231 @nicolo-ribaudo/eslint-scope-5-internals/node_modules/estraverse 4.3.0

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1.6232 @jest/core/node_modules/supports-color 7.2.0

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1.6257 css-minimizer-webpack-plugin/node_modules/json-schema-traverse 1.0.0

1.6257.1 Available under license

1.6258 @istanbuljs/load-nyc-config/node_modules/p-locate 4.1.0

1.6258.1 Available under license

1.6259 jest-diff/node_modules/color-name 1.1.4

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1.6260 serve-index/node_modules/inherits 2.0.3

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1.6263 jest-resolve/node_modules/ansi-styles 4.3.0

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1.6265 jest-each/node_modules/chalk 4.1.2

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1.6266 @eslint/eslintrc/node_modules/type-fest 0.20.2

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1.6267 rollup-plugin-terser/node_modules/has-flag 4.0.0

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1.6270 jest-watch-typeahead/node_modules/@jest/test-result 28.1.3

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1.6271 @jest/transform/node_modules/chalk 4.1.2

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1.6272 jest-watcher/node_modules/supports-color 7.2.0

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1.6274.1 Available under license

1.6275 webpack/node_modules/@types/estree 0.0.51

1.6275.1 Available under license

1.6276 @babel/generator/node_modules/@jridgewell/gen-mapping 0.3.2

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1.6277 jake/node_modules/supports-color 7.2.0

1.6277.1 Available under license

1.6278 jest-watch-typeahead/node_modules/@jest/console/node_modules/slash 3.0.0

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1.6280 import-fresh/node_modules/resolve-from 4.0.0

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1.6281 prop-types/node_modules/react-is 16.13.1

1.6281.1 Available under license

1.6282 @jest/reporters/node_modules/source-map 0.6.1

1.6282.1 Available under license

1.6283 @babel/preset-env/node_modules/semver 6.3.1

1.6283.1 Available under license

1.6284 css-minimizer-webpack-plugin/node_modules/ajv 8.11.0

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1.6288 jest-worker/node_modules/supports-color 8.1.1

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1.6292 @typescript-eslint/utils/node_modules/estraverse 4.3.0

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1.6295 svgo/node_modules/dom-serializer 0.2.2

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1.6297 @svgr/core 5.5.0

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1.6300 jest-circus/node_modules/supports-color 7.2.0

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1.6308 filelist/node_modules/brace-expansion 2.0.1

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1.6343 @jest/reporters/node_modules/supports-color 7.2.0

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1.6344 @babel/eslint-parser/node_modules/eslint-visitor-keys 2.1.0

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1.6345 eslint/node_modules/escape-string-regexp 4.0.0

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1.6348 csso/node_modules/mdn-data 2.0.14

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1.6349 jest-watch-typeahead/node_modules/pretty-format 28.1.3

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1.6350 svgr-hast-util-to-babel-ast 5.5.0

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1.6353 webpack-dev-server/node_modules/ajv 8.11.0

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1.6359 jest-watch-typeahead/node_modules/jest-message-util 28.1.3

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1.6360 @jridgewell/source-map/node_modules/@jridgewell/gen-mapping 0.3.2

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1.6362 serve-index/node_modules/ms 2.0.0

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1.6363 @jest/core/node_modules/color-convert 2.0.1

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1.6378 jest-each/node_modules/color-convert 2.0.1

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1.6382 pkg-dir/node_modules/find-up 4.1.0

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1.6391 jest-watcher/node_modules/has-flag 4.0.0

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1.6392 ajv-formats/node_modules/ajv 8.11.0

1.6392.1 Available under license

1.6393 global-prefix/node_modules/which 1.3.1

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1.6394 @jest/core/node_modules/chalk 4.1.2

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1.6416 jest-watcher/node_modules/ansi-styles 4.3.0

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1.6417 terser/node_modules/commander 2.20.3

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1.6418 jest-circus/node_modules/ansi-styles 4.3.0

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1.6419 @babel/plugin-transform-runtime/node_modules/semver 6.3.1

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1.6422 postcss-svgo/node_modules/svgo 2.8.0

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1.6423 @eslint/eslintrc/node_modules/globals 13.17.0

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1.6426 whatwg-encoding/node_modules/iconv-lite 0.4.24

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1.6462 @jest/source-map/node_modules/source-map 0.6.1

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1.6496 eslint-webpack-plugin/node_modules/json-schema-traverse 1.0.0

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1.6502 jest-watch-typeahead/node_modules/jest-watcher/node_modules/strip-ansi 6.0.1

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1.6507 svgo/node_modules/domutils 1.7.0

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1.6508 clean-css/node_modules/source-map 0.6.1

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1.6511 jest-resolve/node_modules/color-name 1.1.4

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1.6515 svgr-babel-plugin-remove-jsx-empty-expression 5.0.1

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1.6516 eslint-import-resolver-node/node_modules/debug 3.2.7

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1.6522 pretty-format/node_modules/ansi-styles 5.2.0

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1.6523 react-dev-utils/node_modules/chalk 4.1.2

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1.6527 @jest/transform/node_modules/color-name 1.1.4

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1.6562 fork-ts-checker-webpack-plugin/node_modules/ansi-styles 4.3.0

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1.6568 domexception/node_modules/webidl-conversions 5.0.0

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1.6569 @svgr/webpack 5.5.0

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1.6571 jest-watch-typeahead/node_modules/ansi-styles 4.3.0

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1.6586 @jest/console/node_modules/color-convert 2.0.1

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1.6587 raw-body/node_modules/bytes 3.1.2

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1.6588 @nicolo-ribaudo/eslint-scope-5-internals/node_modules/eslint-scope 5.1.1

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1.6589 workbox-webpack-plugin/node_modules/webpack-sources 1.4.3

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1.6594 go-compute-metadata 0.5.0

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1.6637 swagger-models 2.2.8

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1.6638 springdoc-openapi-starter-common 2.0.4

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1.7193 github.com/nats-io/nats-top 0.6.2

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1.7194 github.com/nats-io/jwt/v2 2.5.8

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1.7195 nats-server 2.10.20

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1.7196 procfs 0.11.0

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1.7197 github.com/nats-io/prometheus-nats-exporter 0.15.0

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1.7198 x-text 0.17.0

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1.7199 patroni 4.0.2

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1.8141 dmidecode 3.5-3ubuntu0.1
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1.8142 bind-tools 9.18.34-r0

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1.8143 go.opentelemetry.io/otel/exporters/zipkin 1.28.0

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1.8144 github.com/ory/x 0.0.649

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1.8260 github.com/hashicorp/raft-boltdb 0.0.0-20231211162105-6c830fa4535e

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1.8261 google.golang.org/genproto/googleapis/rpc 0.0.0-20250303144028-a0af3efb3deb

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1.8282 github.com/coreos/go-iptables 0.8.0

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1.8823 github.com/beevik/ntp 1.3.1

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1.8824 jaxb-api 2.3.1

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1.1 libjpeg 6b

1.1.1 Notifications :

This software is based in part on the work of the Independent JPEG Group.

1.1.2 Available under license :

The Independent JPEG Group's JPEG software
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README for release 6b of 27-Mar-1998
==========

This distribution contains the sixth public release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to our electronic mailing list. Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the official ISO JPEG standards committee.

DOCUMENTATION
ROADMAP
==========

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.doc).
wizard.doc Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.
Programmer and internal documentation:
libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images.
JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images

are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the
 hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments
 in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

LEGAL ISSUES
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sole proprietor of its copyright holder, Aladdin Enterprises of Menlo Park, CA.
ansi2knr.c is NOT covered by the above copyright and conditions, but instead
by the usual distribution terms of the Free Software Foundation; principally,
that you must include source code if you redistribute it. (See the file
ansi2knr.c for full details.) However, since ansi2knr.c is not needed as part
of any program generated from the IJG code, this does not limit you more than
the foregoing paragraphs do.

The Unix configuration script "configure" was produced with GNU Autoconf.
It is copyright by the Free Software Foundation but is freely distributable.
The same holds for its supporting scripts (config.guess, config.sub,
ltconfig, ltmain.sh). Another support script, install-sh, is copyright
by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by
patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic
coding cannot
legally be used without obtaining one or more licenses. For this reason,
support for arithmetic coding has been removed from the free JPEG software.
(Since arithmetic coding provides only a marginal gain over the unpatented
Huffman mode, it is unlikely that very many implementations will support it.)
So far as we are aware, there are no patent restrictions on the remaining
code.

The IJG distribution formerly included code to read and write GIF files.
To avoid entanglement with the Unisys LZW patent, GIF reading support has
been removed altogether, and the GIF writer has been simplified to produce
"uncompressed GIFs". This technique does not use the LZW algorithm; the
resulting GIF files are larger than usual, but are readable by all standard
GIF decoders.

We are required to state that
"The Graphics Interchange Format(c) is the Copyright property of
CompuServe Incorporated. GIF(sm) is a Service Mark property of
CompuServe Incorporated."

REFERENCES
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We
highly recommend reading one or more of these references before trying to
understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is
Wallace, Gregory K. "The JPEG Still Picture Compression Standard",

Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best full description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS

The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers
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RELATED SOFTWARE

Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites,
 notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/.
Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read.

(For example, none
of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether
SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO
=====

The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without
sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.2 commons-chain 1.2

1.2.1 Available under license :

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Version 2.0, January 2004

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1.4 velocity 1.7

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* /opt/cola/permits/152180682_1695306395.0221496/0/ini4j-0-5-4-sources-jar/org/ini4j/package.html

* /opt/cola/permits/152180682_1695306395.0221496/0/ini4j-0-5-4-sources-jar/org/ini4j/spi/package.html
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```

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* /opt/cola/permits/152180682_1695306395.0221496/0/ini4j-0-5-4-sources-jar/org/ini4j/Config.java
* /opt/cola/permits/152180682_1695306395.0221496/0/ini4j-0-5-4-sources-jar/org/ini4j/CommonMultiMap.java
* /opt/cola/permits/152180682_1695306395.0221496/0/ini4j-0-5-4-sources-jar/org/ini4j/Registry.java
* /opt/cola/permits/152180682_1695306395.0221496/0/ini4j-0-5-4-sources-jar/org/ini4j/BasicRegistryKey.java
*
 /opt/cola/permits/152180682_1695306395.0221496/0/ini4j-0-5-4-sources-jar/org/ini4j/spi/OptionsParser.java
* /opt/cola/permits/152180682_1695306395.0221496/0/ini4j-0-5-4-sources-jar/org/ini4j/Reg.java
* /opt/cola/permits/152180682_1695306395.0221496/0/ini4j-0-5-4-sources-jar/org/ini4j/spi/IniSource.java
* /opt/cola/permits/152180682_1695306395.0221496/0/ini4j-0-5-4-sources-
jar/org/ini4j/spi/AbstractProfileBuilder.java
* /opt/cola/permits/152180682_1695306395.0221496/0/ini4j-0-5-4-sources-jar/org/ini4j/spi/AbstractParser.java
* /opt/cola/permits/152180682_1695306395.0221496/0/ini4j-0-5-4-sources-jar/org/ini4j/Persistable.java
* /opt/cola/permits/152180682_1695306395.0221496/0/ini4j-0-5-4-sources-jar/org/ini4j/spi/IniHandler.java
* /opt/cola/permits/152180682_1695306395.0221496/0/ini4j-0-5-4-sources-jar/org/ini4j/BasicProfile.java
* /opt/cola/permits/152180682_1695306395.0221496/0/ini4j-0-5-4-sources-jar/org/ini4j/CommentedMap.java
*
 /opt/cola/permits/152180682_1695306395.0221496/0/ini4j-0-5-4-sources-jar/org/ini4j/spi/IniFormatter.java
* /opt/cola/permits/152180682_1695306395.0221496/0/ini4j-0-5-4-sources-jar/org/ini4j/spi/BeanTool.java
* /opt/cola/permits/152180682_1695306395.0221496/0/ini4j-0-5-4-sources-jar/org/ini4j/BasicOptionMap.java
* /opt/cola/permits/152180682_1695306395.0221496/0/ini4j-0-5-4-sources-jar/org/ini4j/BasicRegistry.java
* /opt/cola/permits/152180682_1695306395.0221496/0/ini4j-0-5-4-sources-jar/org/ini4j/MultiMap.java
* /opt/cola/permits/152180682_1695306395.0221496/0/ini4j-0-5-4-sources-
jar/org/ini4j/spi/UnicodeInputStreamReader.java
* /opt/cola/permits/152180682_1695306395.0221496/0/ini4j-0-5-4-sources-jar/org/ini4j/spi/AbstractFormatter.java
* /opt/cola/permits/152180682_1695306395.0221496/0/ini4j-0-5-4-sources-jar/org/ini4j/spi/OptionsBuilder.java
* /opt/cola/permits/152180682_1695306395.0221496/0/ini4j-0-5-4-sources-jar/org/ini4j/spi/OptionsFormatter.java
*

/opt/cola/permits/152180682_1695306395.0221496/0/ini4j-0-5-4-sources-jar/org/ini4j/Profile.java
* /opt/cola/permits/152180682_1695306395.0221496/0/ini4j-0-5-4-sources-jar/org/ini4j/IniPreferencesFactory.java
* /opt/cola/permits/152180682_1695306395.0221496/0/ini4j-0-5-4-sources-jar/org/ini4j/spi/ServiceFinder.java
* /opt/cola/permits/152180682_1695306395.0221496/0/ini4j-0-5-4-sources-jar/org/ini4j/InvalidFileFormatException.java
* /opt/cola/permits/152180682_1695306395.0221496/0/ini4j-0-5-4-sources-jar/org/ini4j/spi/BeanAccess.java
* /opt/cola/permits/152180682_1695306395.0221496/0/ini4j-0-5-4-sources-jar/org/ini4j/spi/IniParser.java
* /opt/cola/permits/152180682_1695306395.0221496/0/ini4j-0-5-4-sources-jar/org/ini4j/spi/OptionsHandler.java
* /opt/cola/permits/152180682_1695306395.0221496/0/ini4j-0-5-4-sources-jar/org/ini4j/IniPreferences.java
* /opt/cola/permits/152180682_1695306395.0221496/0/ini4j-0-5-4-sources-jar/org/ini4j/BasicMultiMap.java
* /opt/cola/permits/152180682_1695306395.0221496/0/ini4j-0-5-4-sources-jar/org/ini4j/Wini.java
*
/opt/cola/permits/152180682_1695306395.0221496/0/ini4j-0-5-4-sources-jar/org/ini4j/BasicProfileSection.java
* /opt/cola/permits/152180682_1695306395.0221496/0/ini4j-0-5-4-sources-jar/org/ini4j/spi/AbstractBeanInvocationHandler.java
* /opt/cola/permits/152180682_1695306395.0221496/0/ini4j-0-5-4-sources-jar/org/ini4j/spi/HandlerBase.java
* /opt/cola/permits/152180682_1695306395.0221496/0/ini4j-0-5-4-sources-jar/org/ini4j/spi/TypeValuesPair.java
* /opt/cola/permits/152180682_1695306395.0221496/0/ini4j-0-5-4-sources-jar/org/ini4j/spi/Warnings.java
* /opt/cola/permits/152180682_1695306395.0221496/0/ini4j-0-5-4-sources-jar/org/ini4j/spi/RegEscapeTool.java
* /opt/cola/permits/152180682_1695306395.0221496/0/ini4j-0-5-4-sources-jar/org/ini4j/OptionMap.java
* /opt/cola/permits/152180682_1695306395.0221496/0/ini4j-0-5-4-sources-jar/org/ini4j/spi/RegBuilder.java
* /opt/cola/permits/152180682_1695306395.0221496/0/ini4j-0-5-4-sources-jar/org/ini4j/spi/EscapeTool.java
*
/opt/cola/permits/152180682_1695306395.0221496/0/ini4j-0-5-4-sources-jar/org/ini4j/spi/WinEscapeTool.java
* /opt/cola/permits/152180682_1695306395.0221496/0/ini4j-0-5-4-sources-jar/org/ini4j/ConfigParser.java
* /opt/cola/permits/152180682_1695306395.0221496/0/ini4j-0-5-4-sources-jar/org/ini4j/spi/IniBuilder.java
* /opt/cola/permits/152180682_1695306395.0221496/0/ini4j-0-5-4-sources-jar/org/ini4j/Configurable.java
* /opt/cola/permits/152180682_1695306395.0221496/0/ini4j-0-5-4-sources-jar/org/ini4j/Ini.java
* /opt/cola/permits/152180682_1695306395.0221496/0/ini4j-0-5-4-sources-jar/org/ini4j/Options.java

1.31 avro 1.7.7

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The textbook (containing a proof that the shuffle is uniformly random) is
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1.36 antlr 4.5.1

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/opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/tool/ast/AltAST.java
* /opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/automata/TailEpsilonRemover.java
* /opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/codegen/model/BaseVisitorFile.java
* /opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/codegen/model/SerializedATN.java
* /opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/codegen/model/chunk/RetValueRef.java
* /opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/codegen/Wildcard.java
* /opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/codegen/model/chunk/ArgRef.java
*
/opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/gui/BasicFontMetrics.java
* /opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/tool/ast/SetAST.java
* /opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/codegen/model/CaptureNextTokenType.java
* /opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/codegen/model/decl/TokenDecl.java
* /opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/analysis/LeftRecursiveRuleAltInfo.java
* /opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/codegen/model/LL1Loop.java
* /opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/codegen/CodeGenPipeline.java
*
/opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/codegen/model/decl/AttributeDecl.java

* /opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/misc/Graph.java
* /opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/tool/LabelElementPair.java
* /opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/semantics/SemanticPipeline.java
* /opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_int.java
* /opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_index.java
* /opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/codegen/model/OutputModelObject.java
*
 /opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_parser.java
* /opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/gui/TreePostScriptGenerator.java
* /opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/codegen/model/MatchSet.java
* /opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/analysis/LeftRecursiveRuleAnalyzer.java
* /opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/parse/ScopeParser.java
* /opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/gui/PostScriptDocument.java
* /opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/codegen/target/Python3Target.java
*
 /opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/codegen/model/CodeBlockForOuterMostAlt.java
* /opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/codegen/model/chunk/RulePropertyRef_stop.java
* /opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/codegen/model/StarBlock.java
* /opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/codegen/ParserFactory.java
* /opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/gui/TestRig.java
* /opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/codegen/model/decl/RuleContextDecl.java
* /opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/tool/Rule.java
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*/

tree grammar ATNBuilder;
options {
 language     = Java;
 tokenVocab   = ANTLRParser;
 ASTLabelType = GrammarAST;
// filter       = true;
}

// Include the copyright in this source and also the generated source
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*/
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import org.antlr.v4.automata.ATNFactory;
}

@members {
   ATNFactory factory;
   public ATNBuilder(TreeNodeStream input, ATNFactory factory) {
    this(input);
    this.factory = factory;
   }
}

dummy : block[null] ; // avoid error about no start rule

ruleBlock[GrammarAST ebnfRoot] returns [ATNFactory.Handle p]
@init {
   List<ATNFactory.Handle> alts = new ArrayList<ATNFactory.Handle>();
   int alt = 1;
   factory.setCurrentOuterAlt(alt);
}
   : ^(BLOCK
         (^(OPTIONS .*))?
         (   a=alternative
             {alts.add($a.p); factory.setCurrentOuterAlt(++alt);}
         )+
      )
    {$p
 = factory.block((BlockAST)$BLOCK, ebnfRoot, alts);}
   ;
```

```
block[GrammarAST ebnfRoot] returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> alts = new ArrayList<ATNFactory.Handle>();}
  : ^(BLOCK (^(OPTIONS .*))? (a=alternative {alts.add($a.p);})+)
   {$p = factory.block((BlockAST)$BLOCK, ebnfRoot, alts);}
  ;

alternative returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> els = new ArrayList<ATNFactory.Handle>();}
  : ^(LEXER_ALT_ACTION a=alternative lexerCommands)
      {$p = factory.lexerAltCommands($a.p,$lexerCommands.p);}
  | ^(ALT elementOptions? EPSILON)       {$p = factory.epsilon($EPSILON);}
  |   ^(ALT elementOptions? (e=element {els.add($e.p);})+) {$p = factory.alt(els);}
  ;

lexerCommands returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> cmds = new ArrayList<ATNFactory.Handle>();}
  :   (c=lexerCommand {if ($c.cmd != null) cmds.add($c.cmd);})+
      {
      $p = factory.alt(cmds);
      }
  ;

lexerCommand returns [ATNFactory.Handle
 cmd]
 : ^(LEXER_ACTION_CALL ID lexerCommandExpr)
      {$cmd = factory.lexerCallCommand($ID, $lexerCommandExpr.start);}
 | ID
      {$cmd = factory.lexerCommand($ID);}
 ;

lexerCommandExpr
 : ID
 | INT
 ;

element returns [ATNFactory.Handle p]
 : labeledElement    {$p = $labeledElement.p;}
 | atom      {$p = $atom.p;}
 | subrule      {$p = $subrule.p;}
 |   ACTION      {$p = factory.action((ActionAST)$ACTION);}
 |   SEMPRED      {$p = factory.sempred((PredAST)$SEMPRED);}
 |   ^(ACTION .)     {$p = factory.action((ActionAST)$ACTION);}
 |   ^(SEMPRED .)    {$p = factory.sempred((PredAST)$SEMPRED);}
  | ^(NOT b=blockSet[true])  {$p = $b.p;}
  | LEXER_CHAR_SET     {$p = factory.charSetLiteral($start);}
 ;

astOperand returns [ATNFactory.Handle p]
```

```
 : atom      {$p = $atom.p;}
 | ^(NOT blockSet[true])  {$p = $blockSet.p;}
 ;

labeledElement returns [ATNFactory.Handle p]
 : ^(ASSIGN ID element)     {$p = factory.label($element.p);}
 | ^(PLUS_ASSIGN ID element)   {$p = factory.listLabel($element.p);}
 ;

subrule
 returns [ATNFactory.Handle p]
 : ^(OPTIONAL block[$start])   {$p = $block.p;}
 | ^(CLOSURE block[$start])   {$p = $block.p;}
 | ^(POSITIVE_CLOSURE block[$start]) {$p = $block.p;}
 |  block[null]       {$p = $block.p;}
   ;

blockSet[boolean invert] returns [ATNFactory.Handle p]
@init {List<GrammarAST> alts = new ArrayList<GrammarAST>();}
 : ^(SET (setElement {alts.add($setElement.start);})+) {$p = factory.set($start, alts, $invert);}
 ;

/** Don't combine with atom otherwise it will build spurious ATN nodes */
setElement
 : ^(STRING_LITERAL .)
 | ^(TOKEN_REF .)
 | STRING_LITERAL
 | TOKEN_REF
 | ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
   |   LEXER_CHAR_SET
 ;

atom returns [ATNFactory.Handle p]
 : range     {$p = $range.p;}
 | ^(DOT ID terminal)  {$p = $terminal.p;}
 | ^(DOT ID ruleref)  {$p = $ruleref.p;}
   | ^(WILDCARD .)   {$p = factory.wildcard($start);}
   | WILDCARD    {$p = factory.wildcard($start);}
   | blockSet[false]   {$p =
 $blockSet.p;}
   |   terminal    {$p = $terminal.p;}
   |   ruleref     {$p = $ruleref.p;}
   ;

ruleref returns [ATNFactory.Handle p]
   : ^(RULE_REF ARG_ACTION? ^(ELEMENT_OPTIONS .*))  {$p = factory.ruleRef($RULE_REF);}
   | ^(RULE_REF ARG_ACTION?)       {$p = factory.ruleRef($RULE_REF);}
   | RULE_REF          {$p = factory.ruleRef($RULE_REF);}
```

```
  ;

range returns [ATNFactory.Handle p]
  : ^(RANGE a=STRING_LITERAL b=STRING_LITERAL) {$p = factory.range($a,$b);}
  ;

terminal returns [ATNFactory.Handle p]
  :  ^(STRING_LITERAL .)   {$p = factory.stringLiteral((TerminalAST)$start);}
  | STRING_LITERAL    {$p = factory.stringLiteral((TerminalAST)$start);}
  | ^(TOKEN_REF ARG_ACTION .) {$p = factory.tokenRef((TerminalAST)$start);}
  | ^(TOKEN_REF .)    {$p = factory.tokenRef((TerminalAST)$start);}
  | TOKEN_REF     {$p = factory.tokenRef((TerminalAST)$start);}
  ;

elementOptions
 : ^(ELEMENT_OPTIONS elementOption*)
 ;

elementOption
 : ID
 | ^(ASSIGN ID ID)
 | ^(ASSIGN
 ID STRING_LITERAL)
 | ^(ASSIGN ID ACTION)
 | ^(ASSIGN ID INT)
 ;
```

Found in path(s):
* /opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/parse/ATNBuilder.g
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*/

tree grammar SourceGenTriggers;
options {
 language     = Java;
 tokenVocab   = ANTLRParser;
 ASTLabelType = GrammarAST;
}

@header {
package org.antlr.v4.codegen;
import org.antlr.v4.misc.Utils;
import org.antlr.v4.codegen.model.*;
import org.antlr.v4.codegen.model.decl.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.util.Collections;
import java.util.Map;
import
 java.util.HashMap;
}

@members {
 public OutputModelController controller;
   public boolean hasLookaheadBlock;
   public SourceGenTriggers(TreeNodeStream input, OutputModelController controller) {
    this(input);
    this.controller = controller;
   }
}

dummy : block[null, null] ;

block[GrammarAST label, GrammarAST ebnfRoot] returns [List<? extends SrcOp> omos]
   : ^( blk=BLOCK (^(OPTIONS .+))?
```

```
  {List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();}
   ( alternative {alts.add($alternative.altCodeBlock);} )+
  )
  {
  if ( alts.size()==1 && ebnfRoot==null) return alts;
  if ( ebnfRoot==null ) {
      $omos = DefaultOutputModelFactory.list(controller.getChoiceBlock((BlockAST)$blk, alts, $label));
  }
  else {
        Choice choice = controller.getEBNFBlock($ebnfRoot, alts);
        hasLookaheadBlock |= choice instanceof PlusBlock || choice instanceof StarBlock;
      $omos = DefaultOutputModelFactory.list(choice);
   }
  }
 ;

alternative returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]
@init {
  boolean outerMost = inContext("RULE BLOCK");
}
@after {
  controller.finishAlternative($altCodeBlock, $ops, outerMost);
}
  : a=alt[outerMost] {$altCodeBlock=$a.altCodeBlock; $ops=$a.ops;}
 ;

alt[boolean outerMost] returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]
@init {
 // set alt if outer ALT only (the only ones with alt field set to Alternative object)
 AltAST altAST = (AltAST)retval.start;
 if ( outerMost ) controller.setCurrentOuterMostAlt(altAST.alt);
}
 : {
  List<SrcOp> elems = new ArrayList<SrcOp>();
  // TODO: shouldn't we pass $start to controller.alternative()?
  $altCodeBlock = controller.alternative(controller.getCurrentOuterMostAlt(), outerMost);
  $altCodeBlock.ops = $ops = elems;
  controller.setCurrentBlock($altCodeBlock);
  }
  ^( ALT elementOptions? ( element {if ($element.omos!=null) elems.addAll($element.omos);} )+ )

 | ^(ALT elementOptions? EPSILON)
      {$altCodeBlock = controller.epsilon(controller.getCurrentOuterMostAlt(), outerMost);}
  ;

element returns [List<? extends SrcOp> omos]
 : labeledElement     {$omos = $labeledElement.omos;}
 | atom[null,false]   {$omos = $atom.omos;}
```

```
 | subrule       {$omos = $subrule.omos;}
 |   ACTION       {$omos = controller.action((ActionAST)$ACTION);}
 |   SEMPRED       {$omos = controller.sempred((ActionAST)$SEMPRED);}
 | ^(ACTION elementOptions)  {$omos = controller.action((ActionAST)$ACTION);}
 |   ^(SEMPRED elementOptions)  {$omos = controller.sempred((ActionAST)$SEMPRED);}
 ;

labeledElement returns [List<? extends SrcOp> omos]
 : ^(ASSIGN ID atom[$ID,false] )   {$omos = $atom.omos;}
 | ^(PLUS_ASSIGN ID atom[$ID,false])  {$omos = $atom.omos;}
 | ^(ASSIGN ID block[$ID,null] )   {$omos = $block.omos;}
 | ^(PLUS_ASSIGN ID block[$ID,null])  {$omos = $block.omos;}
 ;

subrule returns [List<? extends SrcOp> omos]
 : ^(OPTIONAL b=block[null,$OPTIONAL])
  {
  $omos = $block.omos;
  }
 | ( ^(op=CLOSURE
 b=block[null,null])
  | ^(op=POSITIVE_CLOSURE b=block[null,null])
  )
  {
  List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();
  SrcOp blk = $b.omos.get(0);
  CodeBlockForAlt alt = new CodeBlockForAlt(controller.delegate);
  alt.addOp(blk);
  alts.add(alt);
  SrcOp loop = controller.getEBNFBlock($op, alts); // "star it"
      hasLookaheadBlock |= loop instanceof PlusBlock || loop instanceof StarBlock;
      $omos = DefaultOutputModelFactory.list(loop);
  }
 |  block[null, null]     {$omos = $block.omos;}
   ;

blockSet[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
   : ^(SET atom[label,invert]+) {$omos = controller.set($SET, $label, invert);}
   ;

/*
setElement
 : STRING_LITERAL
 | TOKEN_REF
 | ^(RANGE STRING_LITERAL STRING_LITERAL)
 ;
*/
```

```
// TODO: combine ROOT/BANG into one then just make new op ref'ing return value of atom/terminal...
// TODO: same for NOT
atom[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
 : ^(NOT a=atom[$label,
 true])  {$omos = $a.omos;}
 | range[label]       {$omos = $range.omos;}
 | ^(DOT ID terminal[$label])
 | ^(DOT ID ruleref[$label])
   | ^(WILDCARD .)       {$omos = controller.wildcard($WILDCARD, $label);}
   | WILDCARD        {$omos = controller.wildcard($WILDCARD, $label);}
   |   terminal[label]     {$omos = $terminal.omos;}
   |   ruleref[label]     {$omos = $ruleref.omos;}
 | blockSet[$label, invert]  {$omos = $blockSet.omos;}
 ;

ruleref[GrammarAST label] returns [List<SrcOp> omos]
   : ^(RULE_REF ARG_ACTION? elementOptions?)  {$omos = controller.ruleRef($RULE_REF, $label,
$ARG_ACTION);}
   ;

range[GrammarAST label] returns [List<SrcOp> omos]
   : ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
   ;

terminal[GrammarAST label] returns [List<SrcOp> omos]
   :  ^(STRING_LITERAL .)   {$omos = controller.stringRef($STRING_LITERAL, $label);}
   | STRING_LITERAL    {$omos = controller.stringRef($STRING_LITERAL, $label);}
   | ^(TOKEN_REF ARG_ACTION .) {$omos = controller.tokenRef($TOKEN_REF,
 $label, $ARG_ACTION);}
   | ^(TOKEN_REF .)    {$omos = controller.tokenRef($TOKEN_REF, $label, null);}
   | TOKEN_REF     {$omos = controller.tokenRef($TOKEN_REF, $label, null);}
   ;

elementOptions
   : ^(ELEMENT_OPTIONS elementOption+)
   ;

elementOption
   : ID
   |   ^(ASSIGN ID ID)
   |   ^(ASSIGN ID STRING_LITERAL)
   |   ^(ASSIGN ID ACTION)
   |   ^(ASSIGN ID INT)
   ;
```

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*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

/** ANTLR tool checks output templates are compatible with tool code generation.
*  For now, a simple string match used on x.y of x.y.z scheme.
*  Must match Tool.VERSION during load to templates.
*
*  REQUIRED.
*/

pythonTypeInitMap ::= [
 "bool":"False",
 "int":"0",
 "float":"0.0",
 "str":"",
 default:"None" // anything other than a
```

```
 primitive type is an object
]

// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
# encoding: utf-8
from __future__ import print_function
from antlr4 import *
from io import StringIO

<namedActions.header>
<parser>

>>

ListenerFile(file, header) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
<header>

# This class defines a complete listener for a parse tree produced by <file.parserName>.
class <file.grammarName>Listener(ParseTreeListener):

   <file.listenerNames:{lname |
# Enter a parse tree produced by <file.parserName>#<lname>.
def enter<lname; format="cap">(self, ctx):
   pass

# Exit a parse tree produced by <file.parserName>#<lname>.
def exit<lname; format="cap">(self, ctx):
   pass

}; separator="\n">

>>


VisitorFile(file, header) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
<header>

#
 This class defines a complete generic visitor for a parse tree produced by <file.parserName>.

class <file.grammarName>Visitor(ParseTreeVisitor):
```

```
  <file.visitorNames:{lname |
# Visit a parse tree produced by <file.parserName>#<lname>.
def visit<lname; format="cap">(self, ctx):
  return self.visitChildren(ctx)

}; separator="\n">

>>


fileHeader(grammarFileName, ANTLRVersion) ::= <<
# Generated from <grammarFileName> by ANTLR <ANTLRVersion>
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<if(superClass)>
from .<superClass> import <superClass>

<endif>
<atn>

class <parser.name> ( <if(superClass)><superClass><else>Parser<endif> ):

  grammarFileName = "<parser.grammarFileName>"

  atn = ATNDeserializer().deserialize(serializedATN())

  decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

  sharedContextCache = PredictionContextCache()

   literalNames = [ <parser.literalNames:{t | u<t>}; null="u\"\<INVALID>\"", separator=", ", wrap, anchor> ]

  symbolicNames = [ <parser.symbolicNames:{t | u<t>}; null="u\"\<INVALID>\"", separator=", ", wrap, anchor> ]

  <parser.rules:{r | RULE_<r.name> = <r.index>}; separator="\n", wrap, anchor>

  ruleNames =  [ <parser.ruleNames:{r | u"<r>"}; separator=", ", wrap, anchor> ]

  EOF = <TokenLabelType()>.EOF
  <if(parser.tokens)>
  <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator="\n", wrap, anchor>
  <endif>
```

```
  <parser:(ctor)()>

  <namedActions.members>

  <funcs; separator="\n">


<if(sempredFuncs)>
  def sempred(self, localctx, ruleIndex, predIndex):
      if self._predicates == None:
          self._predicates = dict()
<parser.sempredFuncs.values:{f |
      self._predicates[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n        ">
      pred = self._predicates.get(ruleIndex, None)
      if pred is None:
          raise Exception("No
 predicate with index:" + str(ruleIndex))
      else:
          return pred(localctx, predIndex)

  <sempredFuncs.values; separator="\n">
<endif>



>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
def action(self, localctx, ruleIndex, actionIndex):
 if self._actions is None:
  actions = dict()
<recog.actionFuncs.values:{f|
  actions[<f.ruleIndex>] = self.<f.name>_action }; separator="\n">
  self._actions = actions
 action = self._actions.get(ruleIndex, None)
 if action is not None:
  action(localctx, actionIndex)
 else:
  raise Exception("No registered action for:" + str(ruleIndex))

<actionFuncs.values; separator="\n">

<endif>
<if(sempredFuncs)>
def sempred(self, localctx, ruleIndex, predIndex):
  if self._predicates is None:
```

```
        preds = dict()
<recog.sempredFuncs.values:{f|
        preds[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n">
        self._predicates = preds
    pred = self._predicates.get(ruleIndex, None)
     if pred is not None:
        return pred(localctx, predIndex)
    else:
        raise Exception("No registered predicate for:" + str(ruleIndex))

<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(p) ::= <<
def __init__(self, input):
    super(<parser.name>, self).__init__(input)
    self.checkVersion("<file.ANTLRVersion>")
    self._interp = ParserATNSimulator(self, self.atn, self.decisionsToDFA, self.sharedContextCache)
    self._predicates = None

>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<

def <r.name>_action(self, localctx , actionIndex):
<actions:{index|
<if(first(actions))>
    if actionIndex == <index>:
        <actions.(index)>
<elseif(rest(actions))>
    elif actionIndex == <index>:
        <actions.(index)>
<endif> }; separator="\n">
>>

/* This generates a private method since the predIndex is generated, making an
* overriding
 implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
def <r.name>_sempred(self, localctx, predIndex):
    <actions:{index|
<if(first(actions))>
    if predIndex == <index>:
```

```
    return <actions.(index)>
<elseif(rest(actions))>
  elif predIndex == <index>:
    return <actions.(index)>
<endif> }; separator="\n">

>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

<ruleCtx>

<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

def <currentRule.name>(self<currentRule.args:{a | , <a.name>}>):

  localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, self.state<currentRule.args:{a | , <a.name>}>)
  self.enterRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>)
  <namedActions.init>
  <locals; separator="\n">
  try:
    <code>
    <postamble; separator="\n">
    <namedActions.after>
  <if(exceptions)>
  <exceptions; separator="\n">
   <else>
  except RecognitionException as re:
    localctx.exception = re
    self._errHandler.reportError(self, re)
    self._errHandler.recover(self, re)
  <endif>
  finally:
    <finallyAction>
    self.exitRule()
  return localctx

>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
 namedActions,finallyAction,postamble) ::=
<<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

def <currentRule.name>(self, _p=0<if(currentRule.args)>, <args:{a | , <a>}><endif>):
```

```
  _parentctx = self._ctx
  _parentState = self.state
  localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, _parentState<args:{a | , <a.name>}>)
  _prevctx = localctx
  _startState = <currentRule.startState>
  self.enterRecursionRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>, _p)
  <namedActions.init>
  <locals; separator="\n">
  try:
     <code>
     <postamble; separator="\n">

  <namedActions.after>
  except RecognitionException as re:
     localctx.exception = re
     self._errHandler.reportError(self, re)
     self._errHandler.recover(self, re)
  finally:
     <finallyAction>
     self.unrollRecursionContexts(_parentctx)
  return localctx

>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>localctx = <parser.name>.<currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(self, localctx)<endif>
self.enterOuterAlt(localctx, <currentOuterMostAltCodeBlock.alt.altNum>)
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
<!_errHandler.sync(this);!>
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble;
 separator="\n">
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
   <alt>
 }; separator="\nel">
else:
```

```
   <error>

>>

LL1OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
<!_errHandler.sync(this);!>
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
   <alt>
   pass}; separator="\nel">
else:
   <error>
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
self.state = <choice.stateNumber>
<!_errHandler.sync(this);!>
<preamble; separator="\n">
if <expr>:
   <alts; separator="\n">

<!else if ( !(<followExpr>) ) <error>!>
>>


LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
while <loopExpr>:
   <alts; separator="\n">
   self.state = <choice.loopBackStateNumber>
   self._errHandler.sync(self)
   <iteration>

>>

LL1PlusBlockSingleAlt(choice,
 loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
<preamble; separator="\n">
while True:
   <alts; separator="\n">
   self.state = <choice.stateNumber> <! loopback/exit decision !>
   self._errHandler.sync(self)
   <iteration>
```

```
   if not (<loopExpr>):
       break

>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
<!_errHandler.sync(this);!>
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{alt |
if la_ == <i>:
   <alt>
   pass
}; separator="\nel">

>>

OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
<!_errHandler.sync(this);!>
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{alt |
if la_ == <i><if(!choice.ast.greedy)>+1<endif>:
   <alt>
}; separator="\nel">

>>

StarBlock(choice,
 alts, sync, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
_alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
   if _alt==1<if(!choice.ast.greedy)>+1<endif>:
       <iteration>
       <alts> <! should only be one !>
   self.state = <choice.loopBackStateNumber>
   self._errHandler.sync(self)
   _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

PlusBlock(choice, alts, error) ::= <<
```

```
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
_alt = 1<if(!choice.ast.greedy)>+1<endif>
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
   <alts:{alt|
if _alt == <i><if(!choice.ast.greedy)>+1<endif>:
   <alt>
}; separator="\nel">
   else:
       <error>
   self.state = <choice.loopBackStateNumber> <! loopback/exit decision !>
   self._errHandler.sync(self)
    _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

Sync(s) ::= "sync(<s.expecting.name>)"

ThrowNoViableAlt(t) ::= "raise NoViableAltException(self)"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" or ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> and ((1 \<\< <offsetShiftVar(s.varName,
bits.shift)>) & (<bits.ttypes:{ttype | (1 \<\< <offsetShiftType(ttype, bits.shift)>)}; separator=" | ">)) != 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount>
 - <offset>)<else><shiftAmount><endif>
%>

offsetShiftType(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<parser.name>.<shiftAmount> - <offset>)<else><parser.name>.<shiftAmount><endif>
```

```
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName>==<parser.name>.<ttype>}; separator=" or ">
%>

cases(ttypes) ::= <<
if token in [<ttypes:{t | <parser.name>.<t>}; separator=", ">]:
>>

InvokeRule(r, argExprsChunks) ::= <<
self.state = <r.stateNumber>
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif>self.<r.name>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChu
nks>)
>>

MatchToken(m) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>self.match(<parser.name>.<m.name>)
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture,
 true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{l | <labelref(l)> = }>self._input.LT(1)<endif>
<capture>
<if(invert)>if <m.varName> \<= 0 or <expr><else>if not(<expr>)<endif>:
<if(m.labels)><m.labels:{l |     <labelref(l)> = }><else>    <endif>self._errHandler.recoverInline(self)
else:
   self.consume()
>>

Wildcard(w) ::= <<
self.state = <w.stateNumber>
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>self.matchWildcard()
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"
```

```
SemPred(p, chunks, failChunks) ::= <<
self.state = <p.stateNumber>
if not <chunks>:
   from antlr4.error.Errors import FailedPredicateException
   raise FailedPredicateException(self, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>,
<p.msg><endif>)
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
 <catchAction>
}
>>

// lexer actions are not associated with model
 objects

LexerSkipCommand()  ::= "skip()"
LexerMoreCommand()  ::= "more()"
LexerPopModeCommand() ::= "popMode()"

LexerTypeCommand(arg)      ::= "_type = <arg>"
LexerChannelCommand(arg)   ::= "_channel = <arg>"
LexerModeCommand(arg)      ::= "_mode = <arg>"
LexerPushModeCommand(arg)  ::= "pushMode(<arg>)"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "localctx.<a.name>"
LocalRef(a) ::= "localctx.<a.name>"
RetValueRef(a) ::= "localctx.<a.name>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(None if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "(0
 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.type()"
TokenPropertyRef_line(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(0 if (<ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.channel)"
```

```
TokenPropertyRef_index(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "(0 if <ctx(t)>.<t.label> is None else int(<ctx(t)>.<t.label>.text))"

RulePropertyRef_start(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r)  ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r)  ::= "(None if <ctx(r)>.<r.label> is None else
self._input.getText((<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop)))"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "self"

ThisRulePropertyRef_start(r)
 ::= "localctx.start"
ThisRulePropertyRef_stop(r)  ::= "localctx.stop"
ThisRulePropertyRef_text(r)  ::= "self._input.getText((localctx.start, self._input.LT(-1)))"
ThisRulePropertyRef_ctx(r)  ::= "localctx"
ThisRulePropertyRef_parser(r)  ::= "self"

NonLocalAttrRef(s)     ::= "getInvokingContext(<s.ruleIndex>).<s.name>"
SetNonLocalAttr(s, rhsChunks)  ::= "getInvokingContext(<s.ruleIndex>).<s.name> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.append(<labelref(a.label)>)"

TokenDecl(t) ::= "self.<t.name> = None # <TokenLabelType()>"
TokenTypeDecl(t) ::= "self.<t.name> = 0 # <TokenLabelType()> type"
TokenListDecl(t) ::= "self.<t.name> = list() # of <TokenLabelType()>s"
RuleContextDecl(r) ::= "self.<r.name> = None # <r.ctxName>"
RuleContextListDecl(rdecl) ::= "self.<rdecl.name> = list() # of <rdecl.ctxName>s"

ContextTokenGetterDecl(t)      ::= <<
def <t.name>(self):
   return self.getToken(<parser.name>.<t.name>, 0)
>>

// should never be called
ContextTokenListGetterDecl(t)
  ::= <<
def <t.name>_list(self):
   return self.getTokens(<parser.name>.<t.name>)
>>

ContextTokenListIndexedGetterDecl(t)  ::= <<
def <t.name>(self, i=None):
   if i is None:
       return self.getTokens(<parser.name>.<t.name>)
   else:
       return self.getToken(<parser.name>.<t.name>, i)
>>
```

```
ContextRuleGetterDecl(r)       ::= <<
def <r.name>(self):
   return self.getTypedRuleContext(<parser.name>.<r.ctxName>,0)

>>

// should never be called
ContextRuleListGetterDecl(r)   ::= <<
def <r.name>_list(self):
   return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)

>>

ContextRuleListIndexedGetterDecl(r)   ::= <<
def <r.name>(self, i=None):
   if i is None:
      return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
   else:
      return self.getTypedRuleContext(<parser.name>.<r.ctxName>,i)

>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
* r becomes rContext.
*/
RuleContextNameSuffix()
 ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName)   ::= "_<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)    ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = self._input.LA(1)"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,
         superClass={ParserRuleContext}) ::= <<
class <struct.name>(<superClass>):

   def __init__(self, parser, parent=None, invokingState=-1<struct.ctorAttrs:{a | , <a.name>=None}>):
      super(<parser.name>.<struct.name>, self).__init__(parent, invokingState)
      self.parser = parser
      <attrs:{a | <a>}; separator="\n">
      <struct.ctorAttrs:{a | self.<a.name> = <a.name>}; separator="\n">
```

```
   <getters:{g | <g>}; separator="\n\n">

   def getRuleIndex(self):
       return <parser.name>.RULE_<struct.derivedFromName>

<if(struct.provideCopyFrom)> <! don't need copy unless
 we have subclasses !>
   def copyFrom(self, ctx):
       super(<parser.name>.<struct.name>, self).copyFrom(ctx)
       <struct.attrs:{a | self.<a.name> = ctx.<a.name>}; separator="\n">

<endif>
   <dispatchMethods; separator="\n">
   <extensionMembers; separator="\n">

>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.name>(<currentRule.name; format="cap">Context):

   def __init__(self, parser, ctx): # actually a <parser.name>.<currentRule.name; format="cap">Context)
       super(<parser.name>.<struct.name>, self).__init__(parser)
       <attrs:{a | <a>}; separator="\n">
       self.copyFrom(ctx)

   <getters:{g | <g>}; separator="\n">

   <dispatchMethods; separator="\n">

>>

ListenerDispatchMethod(method) ::= <<
def <if(method.isEnter)>enter<else>exit<endif>Rule(self, listener):
   if hasattr(listener, "<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">"):
       listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName;
 format="cap">(self)

>>

VisitorDispatchMethod(method) ::= <<
def accept(self, visitor):
   if hasattr(visitor, "visit<struct.derivedFromName; format="cap">"):
       return visitor.visit<struct.derivedFromName; format="cap">(self)
   else:
       return visitor.visitChildren(self)

>>
```

```
AttributeDecl(d) ::= "self.<d.name> = <if(d.initValue)><d.initValue><else>None<endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>localctx.<endif><x.name>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "localctx"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)  ::= "self.precpred(self._ctx, <opPrec>)"
recRuleSetReturnAction(src,name)   ::= "$<name>=$<src>.<name>"
recRuleSetStopToken()                ::= "self._ctx.stop = self._input.LT(-1)"

recRuleAltStartAction(ruleName, ctxName, label) ::= <<
localctx = <parser.name>.<ctxName>Context(self,
 _parentctx, _parentState)
<if(label)>localctx.<label> = _prevctx<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
localctx = <parser.name>.<currentAltLabel; format="cap">Context(self, <parser.name>.<ruleName;
format="cap">Context(self, _parentctx, _parentState))
<if(label)>
<if(isListLabel)>
localctx.<label>.append(_prevctx)
<else>
localctx.<label> = _prevctx
<endif>
<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>


recRuleReplaceContext(ctxName) ::= <<
localctx = <parser.name>.<ctxName>Context(self, localctx)
self._ctx = localctx
_prevctx = localctx
>>

recRuleSetPrevCtx() ::= <<
if self._parseListeners is not None:
   self.triggerExitRuleEvent()
_prevctx = localctx
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
```

```
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
# encoding: utf-8
from __future__ import
 print_function
from antlr4 import *
from io import StringIO

<namedActions.header>

<lexer>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<

<atn>

class <lexer.name>(<if(superClass)><superClass><else>Lexer<endif>):

  atn = ATNDeserializer().deserialize(serializedATN())

  decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

  <rest(lexer.modes):{m| <m> = <i>}; separator="\n">

  <lexer.tokens:{k | <k> = <lexer.tokens.(k)>}; separator="\n", wrap, anchor>

  modeNames = [ <lexer.modes:{m| u"<m>"}; separator=", ", wrap, anchor> ]

  literalNames = [ u"\<INVALID>",
        <lexer.literalNames:{t | u<t>}; separator=", ", wrap, anchor> ]

  symbolicNames = [ u"\<INVALID>",
        <lexer.symbolicNames:{t | u<t>}; separator=", ", wrap, anchor> ]

  ruleNames = [ <lexer.ruleNames:{r | u"<r>"}; separator=", ", wrap, anchor> ]

  grammarFileName = u"<lexer.grammarFileName>"

  def __init__(self, input=None):
     super(<lexer.name>,
 self).__init__(input)
     self.checkVersion("<lexerFile.ANTLRVersion>")
     self._interp = LexerATNSimulator(self, self.atn, self.decisionsToDFA, PredictionContextCache())
     self._actions = None
     self._predicates = None

  <namedActions.members>
```

```
  <dumpActions(lexer, "", actionFuncs, sempredFuncs)>

>>

SerializedATN(model) ::= <<
<! only one segment, can be inlined !>

def serializedATN():
  with StringIO() as buf:
    buf.write(u"<model.serialized; wrap={")<\n>        buf.write(u"}>")
    return buf.getvalue()

>>

/** Using a type to init value map, try to init a type; if not in table
* must be an object, default value is "null".
*/
initValue(typeName) ::= <<
<javaTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".py"
```

Found in path(s):
* /opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/tool/templates/codegen/Python2/Python2.stg
No license file was found, but licenses were detected in source scan.

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*/
/*
This file contains the actual layout of the messages emitted by ANTLR.
The text itself is coming out of the languages/*stg files, according to the chosen locale.
This file contains the format that mimicks GCC output.
*/

location(file, line, column) ::= "<file>:<line>:"

message(id, text) ::= "<text> (<id>)"

report(location, message, type) ::= "<location> <type>: <message>"

wantsSingleLineMessage() ::= "true"

Found in path(s):
* /opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/tool/templates/messages/formats/gnu.stg
No license file was found, but licenses were detected in source scan.

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```
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*  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
*  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

/** ANTLR tool checks output templates are compatible with tool code generation.
*  For now, a simple string match used on x.y of x.y.z scheme.
*  Must match Tool.VERSION during load to templates.
*
*  REQUIRED.
*/

pythonTypeInitMap ::= [
 "bool":"False",
 "int":"0",
 "float":"0.0",
 "str":"",
 default:"None" // anything other than a
 primitive type is an object
]

// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
var antlr4 = require('antlr4/index');
<if(file.genListener)>
var <file.grammarName>Listener = require('./<file.grammarName>Listener').<file.grammarName>Listener;
<endif>
<if(file.genVisitor)>
var <file.grammarName>Visitor = require('./<file.grammarName>Visitor').<file.grammarName>Visitor;
<endif>

<namedActions.header>
<parser>
>>

ListenerFile(file, header) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
var antlr4 = require('antlr4/index');

// This class defines a complete listener for a parse tree produced by <file.parserName>.
```

```
function <file.grammarName>Listener() {
 antlr4.tree.ParseTreeListener.call(this);
 return this;
}

<file.grammarName>Listener.prototype = Object.create(antlr4.tree.ParseTreeListener.prototype);
<file.grammarName>Listener.prototype.constructor = <file.grammarName>Listener;

<file.listenerNames:{lname
 |
// Enter a parse tree produced by <file.parserName>#<lname>.
<file.grammarName>Listener.prototype.enter<lname; format="cap"> = function(ctx) {
\};

// Exit a parse tree produced by <file.parserName>#<lname>.
<file.grammarName>Listener.prototype.exit<lname; format="cap"> = function(ctx) {
\};

}; separator="\n">

exports.<file.grammarName>Listener = <file.grammarName>Listener;
>>


VisitorFile(file, header) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
var antlr4 = require('antlr4/index');
<header>

// This class defines a complete generic visitor for a parse tree produced by <file.parserName>.

function <file.grammarName>Visitor() {
 antlr4.tree.ParseTreeVisitor.call(this);
 return this;
}

<file.grammarName>Visitor.prototype = Object.create(antlr4.tree.ParseTreeVisitor.prototype);
<file.grammarName>Visitor.prototype.constructor = <file.grammarName>Visitor;

<file.visitorNames:{lname |
// Visit a parse tree produced by
 <file.parserName>#<lname>.
<file.grammarName>Visitor.prototype.visit<lname; format="cap"> = function(ctx) {
\};

}; separator="\n">

exports.<file.grammarName>Visitor = <file.grammarName>Visitor;
```

```
>>


fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName; format="java-escape"> by ANTLR <ANTLRVersion>
// jshint ignore: start
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<if(superClass)>
var <superClass> = require('./<superClass>').<superClass>;
<endif>

var grammarFileName = "<parser.grammarFileName; format="java-escape">";

<atn>

var atn = new antlr4.atn.ATNDeserializer().deserialize(serializedATN);

var decisionsToDFA = atn.decisionToState.map( function(ds, index) { return new antlr4.dfa.DFA(ds, index); });

var sharedContextCache = new antlr4.PredictionContextCache();

var literalNames = [ <parser.literalNames:{t | <t>}; null="'null'", separator=", ", wrap, anchor> ];

var symbolicNames = [ <parser.symbolicNames:{t | <t>}; null="'null'",
 separator=", ", wrap, anchor> ];

var ruleNames =  [ <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ];

function <parser.name> (input) {
 <superClass; null="antlr4.Parser">.call(this, input);
   this._interp = new antlr4.atn.ParserATNSimulator(this, atn, decisionsToDFA, sharedContextCache);
   this.ruleNames = ruleNames;
   this.literalNames = literalNames;
   this.symbolicNames = symbolicNames;
 <namedActions.members>
   return this;
}

<parser.name>.prototype = Object.create(<superClass; null="antlr4.Parser">.prototype);
<parser.name>.prototype.constructor = <parser.name>;

Object.defineProperty(<parser.name>.prototype, "atn", {
 get : function() {
  return atn;
 }
});
```

```
<parser.name>.EOF = antlr4.Token.EOF;
<if(parser.tokens)>
<parser.tokens:{k | <parser.name>.<k> = <parser.tokens.(k)>;}; separator="\n", wrap, anchor>
<endif>

<parser.rules:{r | <parser.name>.RULE_<r.name> = <r.index>;}; separator="\n", wrap, anchor>

<funcs; separator="\n">

<if(sempredFuncs)>
<parser.name>.prototype.sempred
 = function(localctx, ruleIndex, predIndex) {
 switch(ruleIndex) {
 <parser.sempredFuncs.values:{f | case <f.ruleIndex>:
  return this.<f.name>_sempred(localctx, predIndex);}; separator="\n">
   default:
       throw "No predicate with index:" + ruleIndex;
  }
};

<sempredFuncs.values; separator="\n">
<endif>

exports.<parser.name> = <parser.name>;

>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
<lexer.name>.prototype.action = function(localctx, ruleIndex, actionIndex) {
 switch (ruleIndex) {
 <recog.actionFuncs.values:{f|
case <f.ruleIndex>:
 this.<f.name>_action(localctx, actionIndex);
 break;}; separator="\n">
 default:
  throw "No registered action for:" + ruleIndex;
 }
};

<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
<lexer.name>.prototype.sempred = function(localctx, ruleIndex, predIndex) {
 switch (ruleIndex) {
  <recog.sempredFuncs.values:{f| case <f.ruleIndex>:
 return this.<f.name>_sempred(localctx,
```

```
 predIndex);}; separator="\n">
    default:
     throw "No registered predicate for:" + ruleIndex;
   }
};

<sempredFuncs.values; separator="\n">
<endif>
>>


/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<

<lexer.name>.prototype.<r.name>_action = function(localctx , actionIndex) {
 switch (actionIndex) {
 <actions:{index|
case <index>:
 <actions.(index)>
 break;}; separator="\n">
 default:
  throw "No registered action for:" + actionIndex;
 }
};
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
<if(parser)><parser.name><else><lexer.name><endif>.prototype.<r.name>_sempred = function(localctx,
predIndex) {
 switch(predIndex) {
  <actions:{index| case <index>:
 return <actions.(index)>;}; separator="\n">
  default:
   throw
 "No predicate with index:" + predIndex;
 }
};

>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<
```

```
<ruleCtx>

<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

<! Define fields of this parser to export the context classes !>
<parser.name>.<currentRule.ctxType> = <currentRule.ctxType>;

<parser.name>.prototype.<currentRule.name> = function(<currentRule.args:{a | <a.name>}; separator=", ">) {

  var localctx = new <currentRule.ctxType>(this, this._ctx, this.state<currentRule.args:{a | , <a.name>}>);
  this.enterRule(localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>);
  <namedActions.init>
  <locals; separator="\n">
  try {
     <code>
     <postamble; separator="\n">
     <namedActions.after>
  <if(exceptions)>
  <exceptions; separator="\n">
  <else>
  } catch (re) {
   if(re instanceof antlr4.error.RecognitionException) {
       localctx.exception
 = re;
       this._errHandler.reportError(this, re);
       this._errHandler.recover(this, re);
    } else {
    throw re;
    }
  }<endif> finally {
     <finallyAction>
     this.exitRule();
  }
  return localctx;
};

>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
 namedActions,finallyAction,postamble) ::=
<<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

<parser.name>.prototype.<currentRule.name> = function(_p<if(currentRule.args)>, <args:{a | , <a>}><endif>) {
 if(_p===undefined) {
    _p = 0;
```

```
 }
  var _parentctx = this._ctx;
  var _parentState = this.state;
  var localctx = new <currentRule.ctxType>(this, this._ctx, _parentState<args:{a | , <a.name>}>);
  var _prevctx = localctx;
  var _startState = <currentRule.startState>;
  this.enterRecursionRule(localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>, _p);
  <namedActions.init>
  <locals; separator="\n">
  try {

    <code>
     <postamble; separator="\n">
     <namedActions.after>
  } catch( error) {
     if(error instanceof antlr4.error.RecognitionException) {
       localctx.exception = error;
       this._errHandler.reportError(this, error);
       this._errHandler.recover(this, error);
    } else {
    throw error;
    }
  } finally {
     <finallyAction>
     this.unrollRecursionContexts(_parentctx)
  }
  return localctx;
};

>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>localctx = new <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(this, localctx);<endif>
this.enterOuterAlt(localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>

LL1AltBlock(choice,
 preamble, alts, error) ::= <<
this.state = <choice.stateNumber>;
<!_errHandler.sync(this);!>
```

```
<if(choice.label)><labelref(choice.label)> = this._input.LT(1);<endif>
<preamble; separator="\n">
switch(this._input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
   <alt>
   break;}; separator="\n">
default:
   <error>
}
>>

LL1OptionalBlock(choice, alts, error) ::= <<
this.state = <choice.stateNumber>;
<!_errHandler.sync(this);!>
switch (this._input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
 <alt>
 break;}; separator="\n">
default:
 <error>
}
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
this.state = <choice.stateNumber>;
<!_errHandler.sync(this);!>
<preamble; separator="\n">
if(<expr>) {
   <alts; separator="\n">
}
<!else if ( !(<followExpr>) ) <error>!>
>>

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<preamble;
 separator="\n">
while(<loopExpr>) {
   <alts; separator="\n">
   this.state = <choice.loopBackStateNumber>;
   this._errHandler.sync(this);
   <iteration>
}
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
this.state = <choice.blockStartStateNumber>; <! alt block decision !>
```

```
this._errHandler.sync(this);
<preamble; separator="\n">
do {
   <alts; separator="\n">
   this.state = <choice.stateNumber>; <! loopback/exit decision !>
   this._errHandler.sync(this);
   <iteration>
} while(<loopExpr>);
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
this.state = <choice.stateNumber>;
<!_errHandler.sync(this);!>
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
var la_ = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
switch(la_) {
<alts:{alt |
case <i>:
   <alt>
   break;
}; separator="\n">
}
>>

OptionalBlock(choice, alts, error) ::= <<
this.state = <choice.stateNumber>;
<!_errHandler.sync(this);!>
var
 la_ = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
<alts:{alt |
if(la_===<i><if(!choice.ast.greedy)>+1<endif>) {
   <alt>
}; separator="\n} else ">
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
var _alt = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx)
while(_alt!=<choice.exitAlt> && _alt!=antlr4.atn.ATN.INVALID_ALT_NUMBER) {
   if(_alt===1<if(!choice.ast.greedy)>+1<endif>) {
      <iteration>
      <alts> <! should only be one !>
   }
```

```
   this.state = <choice.loopBackStateNumber>;
   this._errHandler.sync(this);
   _alt = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
}

>>

PlusBlock(choice, alts, error) ::= <<
this.state = <choice.blockStartStateNumber>; <! alt block decision !>
this._errHandler.sync(this);
var _alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
 switch (_alt) {
 <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;};
 separator="\n">
 default:
  <error>
 }
 this.state = <choice.loopBackStateNumber>; <! loopback/exit decision !>
 this._errHandler.sync(this);
 _alt = this._interp.adaptivePredict(this._input,<choice.decision>, this._ctx);
} while ( _alt!=<choice.exitAlt> && _alt!=antlr4.atn.ATN.INVALID_ALT_NUMBER );
>>

Sync(s) ::= "sync(<s.expecting.name>)"

ThrowNoViableAlt(t) ::= "throw new antlr4.error.NoViableAltException(this);"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>

// Javascript language spec - shift operators are 32 bits long max
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x1f) == 0
>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> && ((1 \<\< <offsetShiftVar(s.varName,
 bits.shift)>) & (<bits.ttypes:{ttype | (1 \<\< <offsetShiftType(ttype, bits.shift)>)}; separator=" | ">)) !== 0)
%>

isZero ::= [
```

```
"0":true,
default:false
]

offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

offsetShiftType(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<parser.name>.<shiftAmount> - <offset>)<else><parser.name>.<shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName>===<parser.name>.<ttype>}; separator=" || ">
%>

cases(ttypes) ::= <<
<ttypes:{t | case <parser.name>.<t>:}; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
this.state = <r.stateNumber>;
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif>this.<r.name>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChu
nks>);
>>

MatchToken(m) ::= <<
this.state = <m.stateNumber>;
<if(m.labels)><m.labels:{l
 | <labelref(l)> = }><endif>this.match(<parser.name>.<m.name>);
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
this.state = <m.stateNumber>;
<if(m.labels)><m.labels:{l | <labelref(l)> = }>this._input.LT(1);<endif>
<capture>
<if(invert)>if(<m.varName>\<=0 || <expr>)<else>if(!(<expr>))<endif> {
   <if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>this._errHandler.recoverInline(this);
}
else {
   this.consume();
}
```

```
>>

Wildcard(w) ::= <<
this.state = <w.stateNumber>;
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>matchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
this.state = <p.stateNumber>;
if (!( <chunks>)) {
   throw new antlr4.error.FailedPredicateException(this, <p.predicate><if(failChunks)>,
 <failChunks><elseif(p.msg)>, <p.msg><endif>);
}
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
 <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "this.skip()"
LexerMoreCommand()  ::= "this.more()"
LexerPopModeCommand() ::= "this.popMode()"
LexerTypeCommand(arg)      ::= "this._type = <arg>"
LexerChannelCommand(arg)   ::= "this._channel = <arg>"
LexerModeCommand(arg)      ::= "this._mode = <arg>"
LexerPushModeCommand(arg)  ::= "this.pushMode(<arg>)"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "localctx.<a.name>"
LocalRef(a) ::= "localctx.<a.name>"
RetValueRef(a) ::= "localctx.<a.name>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"
```

```
TokenLabelType() ::= "<file.TokenLabelType;
 null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<t.label>===null ? null : <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.type)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "(<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "(<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "(<ctx(t)>.<t.label> === null ? 0 : parseInt(<ctx(t)>.<t.label>.text))"

RulePropertyRef_start(r) ::= "(<ctx(r)>.<r.label>===null ? null : <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r)  ::= "(<ctx(r)>.<r.label>===null ? null : <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r)  ::= "(<ctx(r)>.<r.label>===null
 ? null : this._input.getText(new antlr4.Interval(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop)))"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "this"

ThisRulePropertyRef_start(r) ::= "localctx.start"
ThisRulePropertyRef_stop(r)  ::= "localctx.stop"
ThisRulePropertyRef_text(r)  ::= "this._input.getText(new antlr4.Interval(localctx.start, this._input.LT(-1)))"
ThisRulePropertyRef_ctx(r)  ::= "localctx"
ThisRulePropertyRef_parser(r)  ::= "this"

NonLocalAttrRef(s)     ::= "getInvokingContext(<s.ruleIndex>).<s.name>"
SetNonLocalAttr(s, rhsChunks)  ::= "getInvokingContext(<s.ruleIndex>).<s.name> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.push(<labelref(a.label)>);"

TokenDecl(t) ::= "this.<t.name> = null; // <TokenLabelType()>"
TokenTypeDecl(t) ::= "var <t.name> = 0; // <TokenLabelType()> type"
TokenListDecl(t) ::= "this.<t.name> = []; // of <TokenLabelType()>s"
RuleContextDecl(r) ::= "this.<r.name> = null; // <r.ctxName>"
RuleContextListDecl(rdecl)
 ::= "this.<rdecl.name> = []; // of <rdecl.ctxName>s"

ContextTokenGetterDecl(t)      ::= <<
<t.name> = function() {
  return this.getToken(<parser.name>.<t.name>, 0);
};
>>

// should never be called
ContextTokenListGetterDecl(t)  ::= <<
def <t.name>_list(self):
  return self.getTokens(<parser.name>.<t.name>)
```

```
>>

ContextTokenListIndexedGetterDecl(t)  ::= <<
<t.name> = function(i) {
 if(i===undefined) {
  i = null;
 }
   if(i===null) {
       return this.getTokens(<parser.name>.<t.name>);
   } else {
       return this.getToken(<parser.name>.<t.name>, i);
   }
};

>>

ContextRuleGetterDecl(r)       ::= <<
<r.name> = function() {
   return this.getTypedRuleContext(<r.ctxName>,0);
};
>>

// should never be called
ContextRuleListGetterDecl(r)   ::= <<
def <r.name>_list(self):
   return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)

>>

ContextRuleListIndexedGetterDecl(r)   ::= <<
<r.name> = function(i) {
   if(i===undefined) {
       i = null;
    }
   if(i===null) {
       return this.getTypedRuleContexts(<r.ctxName>);
   } else {
       return this.getTypedRuleContext(<r.ctxName>,i);
   }
};
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
* r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"
```

```
ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName)   ::= "_<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)    ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = this._input.LA(1);"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,
        superClass={antlr4.ParserRuleContext}) ::= <<
function <struct.name>(parser, parent, invokingState<struct.ctorAttrs:{a | , <a.name>}>) {
 if(parent===undefined) {
    parent = null;
 }
 if(invokingState===undefined || invokingState===null) {
  invokingState = -1;
 }
 <superClass>.call(this,
 parent, invokingState);
   this.parser = parser;
   this.ruleIndex = <parser.name>.RULE_<struct.derivedFromName>;
   <attrs:{a | <a>}; separator="\n">
   <struct.ctorAttrs:{a | this.<a.name> = <a.name> || null;}; separator="\n">
   return this;
}

<struct.name>.prototype = Object.create(<superClass>.prototype);
<struct.name>.prototype.constructor = <struct.name>;

<getters:{g | <struct.name>.prototype.<g>}; separator="\n\n">

<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
<struct.name>.prototype.copyFrom = function(ctx) {
   <superClass>.prototype.copyFrom.call(this, ctx);
   <struct.attrs:{a | this.<a.name> = ctx.<a.name>;}; separator="\n">
};
<endif>
<dispatchMethods; separator="\n">
<extensionMembers; separator="\n">

>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
function <struct.name>(parser, ctx) {
 <currentRule.name; format="cap">Context.call(this, parser);
   <attrs:{a | <a>;}; separator="\n">
   <currentRule.name;
```

```
 format="cap">Context.prototype.copyFrom.call(this, ctx);
   return this;
}

<struct.name>.prototype = Object.create(<currentRule.name; format="cap">Context.prototype);
<struct.name>.prototype.constructor = <struct.name>;

<! Define fields of this parser to export this struct/context class !>
<parser.name>.<struct.name> = <struct.name>;

<getters:{g | <struct.name>.prototype.<g>}; separator="\n\n">
<dispatchMethods; separator="\n">

>>

ListenerDispatchMethod(method) ::= <<
<struct.name>.prototype.<if(method.isEnter)>enter<else>exit<endif>Rule = function(listener) {
   if(listener instanceof <parser.grammarName>Listener ) {
       listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(this);
 }
};

>>

VisitorDispatchMethod(method) ::= <<
<struct.name>.prototype.accept = function(visitor) {
   if ( visitor instanceof <parser.grammarName>Visitor ) {
       return visitor.visit<struct.derivedFromName; format="cap">(this);
   } else
 {
       return visitor.visitChildren(this);
   }
};

>>

AttributeDecl(d) ::= "this.<d.name> = <if(d.initValue)><d.initValue><else>null<endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>localctx.<endif><x.name>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "localctx"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)  ::= "this.precpred(this._ctx, <opPrec>)"
recRuleSetReturnAction(src,name)   ::= "$<name>=$<src>.<name>"
recRuleSetStopToken()                ::= "this._ctx.stop = this._input.LT(-1);"
```

```
recRuleAltStartAction(ruleName, ctxName, label) ::= <<
localctx = new <ctxName>Context(this, _parentctx, _parentState);
<if(label)>localctx.<label> = _prevctx;<endif>
this.pushNewRecursionContext(localctx, _startState, <parser.name>.RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
localctx = new <currentAltLabel;
 format="cap">Context(this, new <ruleName; format="cap">Context(this, _parentctx, _parentState));
<if(label)>
<if(isListLabel)>
localctx.<label>.push(_prevctx);
<else>
localctx.<label> = _prevctx;
<endif>
<endif>
this.pushNewRecursionContext(localctx, _startState, <parser.name>.RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName) ::= <<
localctx = new <ctxName>Context(this, localctx);
this._ctx = localctx;
_prevctx = localctx;
>>

recRuleSetPrevCtx() ::= <<
if(this._parseListeners!==null) {
   this.triggerExitRuleEvent();
}
_prevctx = localctx;
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
var antlr4 = require('antlr4/index');

<namedActions.header>

<lexer>

>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<

<atn>
```

```
var atn = new antlr4.atn.ATNDeserializer().deserialize(serializedATN);

var decisionsToDFA = atn.decisionToState.map( function(ds, index) { return new antlr4.dfa.DFA(ds, index);
 });

function <lexer.name>(input) {
 <if(superClass)><superClass><else>antlr4.Lexer<endif>.call(this, input);
   this._interp = new antlr4.atn.LexerATNSimulator(this, atn, decisionsToDFA, new
antlr4.PredictionContextCache());
   return this;
}

<lexer.name>.prototype = Object.create(<if(superClass)><superClass><else>antlr4.Lexer<endif>.prototype);
<lexer.name>.prototype.constructor = <lexer.name>;

<lexer.name>.EOF = antlr4.Token.EOF;
<lexer.tokens:{k | <lexer.name>.<k> = <lexer.tokens.(k)>;}; separator="\n", wrap, anchor>

<rest(lexer.modes):{m| <lexer.name>.<m> = <i>;}; separator="\n">

<lexer.name>.modeNames = [ <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor> ];

<lexer.name>.literalNames = [ <lexer.literalNames:{t | <t>}; null="'null'", separator=", ", wrap, anchor> ];

<lexer.name>.symbolicNames = [ <lexer.symbolicNames:{t | <t>}; null="'null'", separator=", ", wrap, anchor> ];

<lexer.name>.ruleNames = [ <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ];

<lexer.name>.grammarFileName
 = "<lexer.grammarFileName>";

<namedActions.members>

<dumpActions(lexer, "", actionFuncs, sempredFuncs)>

exports.<lexer.name> = <lexer.name>;

>>

SerializedATN(model) ::= <<
<! only one segment, can be inlined !>

var serializedATN = ["<model.serialized; wrap={",<\n>    "}>"].join("");

>>

/** Using a type to init value map, try to init a type; if not in table
* must be an object, default value is "null".
```

```
*/
initValue(typeName) ::= <<
<javaTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".js"
```

Found in path(s):
* /opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/tool/templates/codegen/JavaScript/JavaScript.stg
No license file was found, but licenses were detected in source scan.

```
/*
[The "BSD license"]
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NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
```

Found in path(s):
* /opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/parse/GrammarTreeVisitor.java
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* [The "BSD license"]
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*  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
*  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
*  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

/** ANTLR tool checks output templates are compatible with tool code generation.
*  For now, a simple string match used on x.y of x.y.z scheme.
*  Must match Tool.VERSION during load to templates.
*
*  REQUIRED.
*/

pythonTypeInitMap ::= [
 "bool":"False",
 "int":"0",
 "float":"0.0",
 "str":"",
 default:"None" // anything other than a
 primitive type is an object
]

// args must be <object-model-object>, <fields-resulting-in-STs>
```

```
ParserFile(file, parser, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
# encoding: utf-8
from antlr4 import *
from io import StringIO

<namedActions.header>
<parser>

>>

ListenerFile(file, header) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
if __name__ is not None and "." in __name__:
   from .<file.parserName> import <file.parserName>
else:
   from <file.parserName> import <file.parserName>
<header>

# This class defines a complete listener for a parse tree produced by <file.parserName>.
class <file.grammarName>Listener(ParseTreeListener):

   <file.listenerNames:{lname |
# Enter a parse tree produced by <file.parserName>#<lname>.
def enter<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
   pass

# Exit a parse tree produced by <file.parserName>#<lname>.
def exit<lname; format="cap">(self,
 ctx:<file.parserName>.<lname; format="cap">Context):
   pass

}; separator="\n">

>>


VisitorFile(file, header) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
if __name__ is not None and "." in __name__:
   from .<file.parserName> import <file.parserName>
else:
   from <file.parserName> import <file.parserName>
<header>
```

```
# This class defines a complete generic visitor for a parse tree produced by <file.parserName>.

class <file.grammarName>Visitor(ParseTreeVisitor):

   <file.visitorNames:{lname |
# Visit a parse tree produced by <file.parserName>#<lname>.
def visit<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
   return self.visitChildren(ctx)

}; separator="\n">

del <file.parserName>
>>


fileHeader(grammarFileName, ANTLRVersion) ::= <<
# Generated from <grammarFileName> by ANTLR <ANTLRVersion>
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser,
 funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<if(superClass)>
from .<superClass> import <superClass>

<endif>
<atn>

class <parser.name> ( <if(superClass)><superClass><else>Parser<endif> ):

   grammarFileName = "<parser.grammarFileName>"

   atn = ATNDeserializer().deserialize(serializedATN())

   decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

   sharedContextCache = PredictionContextCache()

   literalNames = [ <parser.literalNames:{t | <t>}; null="\"\<INVALID>\"", separator=", ", wrap, anchor> ]

   symbolicNames = [ <parser.symbolicNames:{t | <t>}; null="\"\<INVALID>\"", separator=", ", wrap, anchor> ]

   <parser.rules:{r | RULE_<r.name> = <r.index>}; separator="\n", wrap, anchor>

   ruleNames =  [ <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ]
```

```
  EOF = <TokenLabelType()>.EOF
  <if(parser.tokens)>
  <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator="\n", wrap, anchor>
  <endif>

  <parser:(ctor)()>

   <namedActions.members>

  <funcs; separator="\n">


<if(sempredFuncs)>
  def sempred(self, localctx:RuleContext, ruleIndex:int, predIndex:int):
      if self._predicates == None:
          self._predicates = dict()
<parser.sempredFuncs.values:{f |
      self._predicates[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n        ">
      pred = self._predicates.get(ruleIndex, None)
      if pred is None:
          raise Exception("No predicate with index:" + str(ruleIndex))
      else:
          return pred(localctx, predIndex)

  <sempredFuncs.values; separator="\n">
<endif>



>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
def action(self, localctx:RuleContext, ruleIndex:int, actionIndex:int):
 if self._actions is None:
  actions = dict()
<recog.actionFuncs.values:{f|
  actions[<f.ruleIndex>] = self.<f.name>_action }; separator="\n">
  self._actions = actions
 action = self._actions.get(ruleIndex, None)
 if action is
 not None:
  action(localctx, actionIndex)
 else:
  raise Exception("No registered action for:" + str(ruleIndex))

<actionFuncs.values; separator="\n">
```

```
<endif>
<if(sempredFuncs)>
def sempred(self, localctx:RuleContext, ruleIndex:int, predIndex:int):
  if self._predicates is None:
      preds = dict()
<recog.sempredFuncs.values:{f|
      preds[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n">
      self._predicates = preds
  pred = self._predicates.get(ruleIndex, None)
  if pred is not None:
      return pred(localctx, predIndex)
  else:
      raise Exception("No registered predicate for:" + str(ruleIndex))

<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(p) ::= <<
def __init__(self, input:TokenStream):
  super().__init__(input)
  self.checkVersion("<file.ANTLRVersion>")
  self._interp = ParserATNSimulator(self, self.atn, self.decisionsToDFA, self.sharedContextCache)
  self._predicates = None

>>

/* This generates a private method since the
 actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<

def <r.name>_action(self, localctx:<r.ctxType> , actionIndex:int):
<actions:{index|
<if(first(actions))>
  if actionIndex == <index>:
      <actions.(index)>
<elseif(rest(actions))>
  elif actionIndex == <index>:
      <actions.(index)>
<endif> }; separator="\n">
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
```

```
RuleSempredFunction(r, actions) ::= <<
def <r.name>_sempred(self, localctx:<r.ctxType>, predIndex:int):
   <actions:{index|
<if(first(actions))>
   if predIndex == <index>:
       return <actions.(index)>
<elseif(rest(actions))>
   elif predIndex == <index>:
       return <actions.(index)>
<endif> }; separator="\n">

>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

<ruleCtx>

<altLabelCtxs:{l
 | <altLabelCtxs.(l)>}; separator="\n">

def <currentRule.name>(self<currentRule.args:{a | , <a.name><if(a.type)>:<a.type><endif>}>):

   localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, self.state<currentRule.args:{a | , <a.name>}>)
   self.enterRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>)
   <namedActions.init>
   <locals; separator="\n">
   try:
       <code>
       <postamble; separator="\n">
       <namedActions.after>
   <if(exceptions)>
   <exceptions; separator="\n">
   <else>
   except RecognitionException as re:
       localctx.exception = re
       self._errHandler.reportError(self, re)
       self._errHandler.recover(self, re)
   <endif>
   finally:
       <finallyAction>
       self.exitRule()
   return localctx

>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
 namedActions,finallyAction,postamble) ::=
```

```
<<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

def
 <currentRule.name>(self, _p:int=0<if(currentRule.args)>, <args:{a | , <a>}><endif>):
   _parentctx = self._ctx
   _parentState = self.state
   localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, _parentState<args:{a | , <a.name>}>)
   _prevctx = localctx
   _startState = <currentRule.startState>
   self.enterRecursionRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>, _p)
   <namedActions.init>
   <locals; separator="\n">
   try:
       <code>
       <postamble; separator="\n">
       <namedActions.after>
   except RecognitionException as re:
       localctx.exception = re
       self._errHandler.reportError(self, re)
       self._errHandler.recover(self, re)
   finally:
       <finallyAction>
       self.unrollRecursionContexts(_parentctx)
   return localctx

>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>localctx = <parser.name>.<currentOuterMostAltCodeBlock.altLabel;
 format="cap">Context(self, localctx)<endif>
self.enterOuterAlt(localctx, <currentOuterMostAltCodeBlock.alt.altNum>)
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
<!_errHandler.sync(this);!>
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
```

```
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
   <alt>
 }; separator="\nel">
else:
   <error>

>>

LL1OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
<!_errHandler.sync(this);!>
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
   <alt>
   pass}; separator="\nel">
else:
   <error>
>>

LL1OptionalBlockSingleAlt(choice, expr,
 alts, preamble, error, followExpr) ::= <<
self.state = <choice.stateNumber>
<!_errHandler.sync(this);!>
<preamble; separator="\n">
if <expr>:
   <alts; separator="\n">

<!else if ( !(<followExpr>) ) <error>!>
>>


LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
while <loopExpr>:
   <alts; separator="\n">
   self.state = <choice.loopBackStateNumber>
   self._errHandler.sync(self)
   <iteration>

>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
<preamble; separator="\n">
```

```
while True:
   <alts; separator="\n">
   self.state = <choice.stateNumber> <! loopback/exit decision !>
   self._errHandler.sync(self)
   <iteration>
   if not (<loopExpr>):
       break

>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
<!_errHandler.sync(this);!>
<if(choice.label)><labelref(choice.label)>
 = _input.LT(1)<endif>
<preamble; separator="\n">
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{alt |
if la_ == <i>:
   <alt>
   pass
}; separator="\nel">

>>

OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
<!_errHandler.sync(this);!>
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{alt |
if la_ == <i><if(!choice.ast.greedy)>+1<endif>:
   <alt>
}; separator="\nel">

>>

StarBlock(choice, alts, sync, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
_alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
   if _alt==1<if(!choice.ast.greedy)>+1<endif>:
       <iteration>
       <alts> <! should only be one !>
   self.state = <choice.loopBackStateNumber>
   self._errHandler.sync(self)
```

```
   _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

PlusBlock(choice, alts, error) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
_alt = 1<if(!choice.ast.greedy)>+1<endif>
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
   <alts:{alt|
if _alt == <i><if(!choice.ast.greedy)>+1<endif>:
   <alt>
}; separator="\nel">
   else:
       <error>
   self.state = <choice.loopBackStateNumber> <! loopback/exit decision !>
   self._errHandler.sync(self)
   _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

Sync(s) ::= "sync(<s.expecting.name>)"

ThrowNoViableAlt(t) ::= "raise NoViableAltException(self)"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" or ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to
 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> and ((1 \<\< <offsetShiftVar(s.varName,
bits.shift)>) & (<bits.ttypes:{ttype | (1 \<\< <offsetShiftType(ttype, bits.shift)>)}; separator=" | ">)) != 0)
%>

isZero ::= [
"0":true,
default:false
]
```

```
offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

offsetShiftType(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<parser.name>.<shiftAmount> - <offset>)<else><parser.name>.<shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName>==<parser.name>.<ttype>}; separator=" or ">
%>

cases(ttypes) ::= <<
if token in [<ttypes:{t | <parser.name>.<t>};
 separator=", ">]:
>>

InvokeRule(r, argExprsChunks) ::= <<
self.state = <r.stateNumber>
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif>self.<r.name>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChu
nks>)
>>

MatchToken(m) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>self.match(<parser.name>.<m.name>)
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{l | <labelref(l)> = }>self._input.LT(1)<endif>
<capture>
<if(invert)>if <m.varName> \<= 0 or <expr><else>if not(<expr>)<endif>:
<if(m.labels)><m.labels:{l |     <labelref(l)> = }><else>    <endif>self._errHandler.recoverInline(self)
else:
   self.consume()
>>

Wildcard(w) ::= <<
self.state = <w.stateNumber>
<if(w.labels)><w.labels:{l
```

```
 | <labelref(l)> = }><endif>self.matchWildcard()
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
self.state = <p.stateNumber>
if not <chunks>:
   from antlr4.error.Errors import FailedPredicateException
   raise FailedPredicateException(self, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>,
<p.msg><endif>)
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
 <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "skip()"
LexerMoreCommand()  ::= "more()"
LexerPopModeCommand() ::= "popMode()"

LexerTypeCommand(arg)      ::= "_type = <arg>"
LexerChannelCommand(arg)   ::= "_channel = <arg>"
LexerModeCommand(arg)      ::= "_mode = <arg>"
LexerPushModeCommand(arg)  ::= "pushMode(<arg>)"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "localctx.<a.name>"
LocalRef(a) ::= "localctx.<a.name>"
RetValueRef(a)
 ::= "localctx.<a.name>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
```

```
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(None if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.type()"
TokenPropertyRef_line(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(0 if (<ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t)
 ::= "(0 if <ctx(t)>.<t.label> is None else int(<ctx(t)>.<t.label>.text))"

RulePropertyRef_start(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r)  ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r)  ::= "(None if <ctx(r)>.<r.label> is None else
self._input.getText((<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop)))"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "self"

ThisRulePropertyRef_start(r) ::= "localctx.start"
ThisRulePropertyRef_stop(r)  ::= "localctx.stop"
ThisRulePropertyRef_text(r)  ::= "self._input.getText((localctx.start, self._input.LT(-1)))"
ThisRulePropertyRef_ctx(r)  ::= "localctx"
ThisRulePropertyRef_parser(r)  ::= "self"

NonLocalAttrRef(s)     ::= "getInvokingContext(<s.ruleIndex>).<s.name>"
SetNonLocalAttr(s, rhsChunks)  ::= "getInvokingContext(<s.ruleIndex>).<s.name> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.append(<labelref(a.label)>)"

TokenDecl(t)
 ::= "self.<t.name> = None # <TokenLabelType()>"
TokenTypeDecl(t) ::= "self.<t.name> = 0 # <TokenLabelType()> type"
TokenListDecl(t) ::= "self.<t.name> = list() # of <TokenLabelType()>s"
RuleContextDecl(r) ::= "self.<r.name> = None # <r.ctxName>"
RuleContextListDecl(rdecl) ::= "self.<rdecl.name> = list() # of <rdecl.ctxName>s"

ContextTokenGetterDecl(t)      ::= <<
def <t.name>(self):
   return self.getToken(<parser.name>.<t.name>, 0)
>>

// should never be called
ContextTokenListGetterDecl(t)  ::= <<
def <t.name>_list(self):
   return self.getTokens(<parser.name>.<t.name>)
>>

ContextTokenListIndexedGetterDecl(t)  ::= <<
```

```
def <t.name>(self, i:int=None):
   if i is None:
       return self.getTokens(<parser.name>.<t.name>)
   else:
       return self.getToken(<parser.name>.<t.name>, i)
>>

ContextRuleGetterDecl(r)       ::= <<
def <r.name>(self):
   return self.getTypedRuleContext(<parser.name>.<r.ctxName>,0)

>>

//
 should never be called
ContextRuleListGetterDecl(r)   ::= <<
def <r.name>_list(self):
   return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)

>>

ContextRuleListIndexedGetterDecl(r)   ::= <<
def <r.name>(self, i:int=None):
   if i is None:
       return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
   else:
       return self.getTypedRuleContext(<parser.name>.<r.ctxName>,i)

>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
* r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName)   ::= "_<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)    ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = self._input.LA(1)"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,
         superClass={ParserRuleContext})
```

```
 ::= <<
class <struct.name>(<superClass>):

   def __init__(self, parser, parent:ParserRuleContext=None, invokingState:int=-1<struct.ctorAttrs:{a | ,
<a.name><if(a.type)>:<a.type><endif>=None}>):
       super().__init__(parent, invokingState)
       self.parser = parser
       <attrs:{a | <a>}; separator="\n">
       <struct.ctorAttrs:{a | self.<a.name> = <a.name>}; separator="\n">

   <getters:{g | <g>}; separator="\n\n">

   def getRuleIndex(self):
       return <parser.name>.RULE_<struct.derivedFromName>

<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
   def copyFrom(self, ctx:ParserRuleContext):
       super().copyFrom(ctx)
       <struct.attrs:{a | self.<a.name> = ctx.<a.name>}; separator="\n">

<endif>
   <dispatchMethods; separator="\n">
   <extensionMembers; separator="\n">

>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.name>(<currentRule.name; format="cap">Context):

   def __init__(self, parser,
 ctx:ParserRuleContext): # actually a <parser.name>.<currentRule.name; format="cap">Context
       super().__init__(parser)
       <attrs:{a | <a>}; separator="\n">
       self.copyFrom(ctx)

   <getters:{g | <g>}; separator="\n">

   <dispatchMethods; separator="\n">

>>

ListenerDispatchMethod(method) ::= <<
def <if(method.isEnter)>enter<else>exit<endif>Rule(self, listener:ParseTreeListener):
   if hasattr( listener, "<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">" ):
       listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(self)

>>
```

```
VisitorDispatchMethod(method) ::= <<
def accept(self, visitor:ParseTreeVisitor):
   if hasattr( visitor, "visit<struct.derivedFromName; format="cap">" ):
       return visitor.visit<struct.derivedFromName; format="cap">(self)
   else:
       return visitor.visitChildren(self)

>>

AttributeDecl(d) ::= "self.<d.name> = <if(d.initValue)><d.initValue><else>None<endif>"

/**
 If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>localctx.<endif><x.name>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "localctx"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)  ::= "self.precpred(self._ctx, <opPrec>)"
recRuleSetReturnAction(src,name)   ::= "$<name>=$<src>.<name>"
recRuleSetStopToken()                ::= "self._ctx.stop = self._input.LT(-1)"

recRuleAltStartAction(ruleName, ctxName, label) ::= <<
localctx = <parser.name>.<ctxName>Context(self, _parentctx, _parentState)
<if(label)>localctx.<label> = _prevctx<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
localctx = <parser.name>.<currentAltLabel; format="cap">Context(self, <parser.name>.<ruleName;
format="cap">Context(self, _parentctx, _parentState))
<if(label)>
<if(isListLabel)>
localctx.<label>.append(_prevctx)
<else>
localctx.<label>
 = _prevctx
<endif>
<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

recRuleReplaceContext(ctxName) ::= <<
localctx = <parser.name>.<ctxName>Context(self, localctx)
self._ctx = localctx
_prevctx = localctx
>>
```

```
recRuleSetPrevCtx() ::= <<
if self._parseListeners is not None:
   self.triggerExitRuleEvent()
_prevctx = localctx
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
from antlr4 import *
from io import StringIO

<namedActions.header>

<lexer>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<

<atn>

class <lexer.name>(<if(superClass)><superClass><else>Lexer<endif>):

   atn = ATNDeserializer().deserialize(serializedATN())

   decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

   <rest(lexer.modes):{m| <m> = <i>}; separator="\n">

   <lexer.tokens:{k | <k> = <lexer.tokens.(k)>};
 separator="\n", wrap, anchor>

   modeNames = [ <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor> ]

   literalNames = [ "\<INVALID>",
         <lexer.literalNames:{t | <t>}; separator=", ", wrap, anchor> ]

   symbolicNames = [ "\<INVALID>",
         <lexer.symbolicNames:{t | <t>}; separator=", ", wrap, anchor> ]

   ruleNames = [ <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ]

   grammarFileName = "<lexer.grammarFileName>"

   def __init__(self, input=None):
      super().__init__(input)
      self.checkVersion("<lexerFile.ANTLRVersion>")
```

```
        self._interp = LexerATNSimulator(self, self.atn, self.decisionsToDFA, PredictionContextCache())
        self._actions = None
        self._predicates = None

    <namedActions.members>

    <dumpActions(lexer, "", actionFuncs, sempredFuncs)>

>>

SerializedATN(model) ::= <<
<! only one segment, can be inlined !>

def serializedATN():
    with StringIO() as buf:
        buf.write("<model.serialized;
 wrap={")<\n>        buf.write("}>")
        return buf.getvalue()

>>

/** Using a type to init value map, try to init a type; if not in table
* must be an object, default value is "null".
*/
initValue(typeName) ::= <<
<javaTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".py"
```

Found in path(s):
* /opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/tool/templates/codegen/Python3/Python3.stg
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*/

lexer grammar ActionSplitter;

options { filter=true; }

@header {
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
}

@members {
ActionSplitterListener delegate;

public ActionSplitter(CharStream input, ActionSplitterListener delegate) {
   this(input, new RecognizerSharedState());
   this.delegate = delegate;
}

/** force filtering (and
 return tokens). triggers all above actions. */
public List<Token> getActionTokens() {
   List<Token> chunks = new ArrayList<Token>();
   Token t = nextToken();
   while ( t.getType()!=Token.EOF ) {
       chunks.add(t);
       t = nextToken();
   }
   return chunks;
}
```

```
private boolean isIDStartChar(int c) {
 return c == '_' || Character.isLetter(c);
}
}

// ignore comments right away

COMMENT
   :   '/*' ( options {greedy=false;} : . )* '*/' {delegate.text($text);}
   ;

LINE_COMMENT
   : '//' ~('\n'|'\r')* '\r'? '\n' {delegate.text($text);}
   ;

SET_NONLOCAL_ATTR
 : '$' x=ID '::' y=ID WS? '=' expr=ATTR_VALUE_EXPR ';'
  {
  delegate.setNonLocalAttr($text, $x, $y, $expr);
  }
 ;

NONLOCAL_ATTR
 : '$' x=ID '::' y=ID {delegate.nonLocalAttr($text, $x, $y);}
 ;

QUALIFIED_ATTR
 : '$' x=ID '.' y=ID {input.LA(1)!='('}? {delegate.qualifiedAttr($text, $x, $y);}
 ;

SET_ATTR
 : '$' x=ID WS? '=' expr=ATTR_VALUE_EXPR ';'
  {
  delegate.setAttr($text, $x, $expr);
  }
 ;

ATTR
 : '$'
 x=ID {delegate.attr($text, $x);}
 ;

// Anything else is just random text
TEXT
@init {StringBuilder buf = new StringBuilder();}
@after {delegate.text(buf.toString());}
 : ( c=~('\\'| '$') {buf.append((char)$c);}
  | '\\$' {buf.append('$');}
```

```
  | '\\' c=~('$') {buf.append('\\').append((char)$c);}
  | {!isIDStartChar(input.LA(2))}? => '$' {buf.append('$');}
  )+
 ;

fragment
ID  : ('a'..'z'|'A'..'Z'|'_') ('a'..'z'|'A'..'Z'|'0'..'9'|'_')*
   ;

/** Don't allow an = as first char to prevent $x == 3; kind of stuff. */
fragment
ATTR_VALUE_EXPR
 : ~'=' (~';')*
 ;

fragment
WS : (' '|'\t'|'\n'|'\r')+
 ;
```

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* /opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/parse/ActionSplitter.g
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*/

```
atn(startState, states, edges, rankdir, decisionRanks, useBox) ::= <<
digraph ATN {
rankdir=LR;
<decisionRanks; separator="\n">
<states; separator="\n">
<edges; separator="\n">
}
```

```
>>

dfa(name, startState, states, edges, rankdir, decisionRanks, useBox) ::= <<
digraph <name>  {
<if(rankdir)>rankdir=<rankdir>;<endif>
<decisionRanks; separator="\n">
<states; separator="\n">
<edges;
 separator="\n">
}
>>

decision-rank(states) ::= <<
{rank=same; rankdir=TB; <states:{s | s<s>}; separator="; ">}
>>

edge(src,target,label,arrowhead,transitionIndex) ::= <<
<src><if(transitionIndex)>:p<transitionIndex><endif> -> <target> [fontsize=11, fontname="Courier", arrowsize=.7,
label = "<label>"<if(arrowhead)>, arrowhead = <arrowhead><endif>];
>>

action-edge(src,target,label,arrowhead,transitionIndex) ::= <<
<src><if(transitionIndex)>:p<transitionIndex><endif> -> <target> [fontsize=11, fontname="Courier", arrowsize=.7,
label = "<label>"<if(arrowhead)>, arrowhead = <arrowhead><endif>];
>>

epsilon-edge(src,label,target,arrowhead,transitionIndex,loopback=false) ::= <<
<src><if(transitionIndex)>:p<transitionIndex><endif> -> <target> [fontname="Times-Italic",
label="&epsilon;"<if(loopback)>, style="dashed"<endif>];
>>

state(state, label, name, transitions) ::= <%
<name>[fontsize=11,
  label="
      <! rest(transition) tests for decision states: these nodes have a non-empty set
 of transitions after the first one. !>
      <if(rest(transitions))>
         {
         <! Label on the left side of the record node. !>
         <label>
         |
         <! Named ports in order on right side of record node, no display text. !>
         {<transitions:{t|\<p<i0>>}; separator="|">}}
      <else>
         <label>
      <endif>
      "
  <if(rest(transitions))>
```

```
    , shape=record, fixedsize=false
  <else>
    , shape=circle, fixedsize=true, width=.55
  <endif>
  , peripheries=1];
%>

stopstate(name,label,actionIndex,useBox) ::= <<
<name>[fontsize=11, label="<label><if(actionIndex)>,\naction:<actionIndex><endif>",
<if(useBox)>shape=polygon,sides=4,peripheries=2,fixedsize=false<else>shape=doublecircle, fixedsize=true,
width=.6<endif>];
>>
```

Found in path(s):
* /opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/tool/templates/dot/graphs.stg
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*/
/*
This file contains the actual layout of the messages emitted by ANTLR.
The text itself is coming out of the languages/*stg files, according to the chosen locale.

This file contains the default format ANTLR uses.
*/

location(file, line, column) ::= "<file>(<line>,<column>)"

message(id, text) ::= "error <id> : <text>"

report(location, message, type) ::= "<location> : <type> <message.id> : <message.text>"

wantsSingleLineMessage() ::= "true"

Found in path(s):
* /opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/tool/templates/messages/formats/vs2005.stg
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*/

/** templates used to generate make-compatible dependencies */

```
/** Generate "f : x, y, z" dependencies for input
*  dependencies and generated files. in and out
*  are File objects.  For example, you can say
*  <f.canonicalPath>
*/
dependencies(grammarFileName,in,out) ::= <<
<if(in)><grammarFileName>: <in; separator=", "><endif>
<out:{f | <f> : <grammarFileName>}; separator="\n">
>>
```

Found
 in path(s):
* /opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/tool/templates/depend.stg
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*/
```

```
/** The definitive ANTLR v3 tree grammar to walk/visit ANTLR v4 grammars.
*  Parses trees created by ANTLRParser.g.
*
*  Rather than have multiple tree grammars, one for each visit, I'm
*  creating this generic visitor that knows about context. All of the
*  boilerplate pattern recognition is done here. Then, subclasses can
*  override the methods they care about. This
 prevents a lot of the same
*  context tracking stuff like "set current alternative for current
*  rule node" that is repeated in lots of tree filters.
*/
tree grammar GrammarTreeVisitor;
options {
 language      = Java;
 tokenVocab    = ANTLRParser;
 ASTLabelType  = GrammarAST;
}

// Include the copyright in this source and also the generated source
@header {
/*
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```

```
*/
package org.antlr.v4.parse;
import org.antlr.v4.Tool;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Method;
}

@members
 {
public String grammarName;
public GrammarAST currentRuleAST;
public String currentModeName = LexerGrammar.DEFAULT_MODE_NAME;
public String currentRuleName;
public GrammarAST currentOuterAltRoot;
public int currentOuterAltNumber = 1; // 1..n
public int rewriteEBNFLevel = 0;

public GrammarTreeVisitor() { this(null); }

// Should be abstract but can't make gen'd parser abstract;
// subclasses should implement else everything goes to stderr!
public ErrorManager getErrorManager() { return null; }

public void visitGrammar(GrammarAST t) { visit(t, "grammarSpec"); }
public void visit(GrammarAST t, String ruleName) {
 CommonTreeNodeStream nodes = new CommonTreeNodeStream(new GrammarASTAdaptor(), t);
 setTreeNodeStream(nodes);
 try {
  Method m = getClass().getMethod(ruleName);
  m.invoke(this);
 }
 catch (Throwable e) {
  ErrorManager errMgr = getErrorManager();
  if ( e instanceof InvocationTargetException ) {
   e = e.getCause();
  }
  //e.printStackTrace(System.err);
  if
 ( errMgr==null ) {
   System.err.println("can't find rule "+ruleName+
         " or tree structure error: "+t.toStringTree()
         );
   e.printStackTrace(System.err);
  }
  else errMgr.toolError(ErrorType.INTERNAL_ERROR, e);
 }
```

```
}

public void discoverGrammar(GrammarRootAST root, GrammarAST ID) { }
public void finishPrequels(GrammarAST firstPrequel) { }
public void finishGrammar(GrammarRootAST root, GrammarAST ID) { }

public void grammarOption(GrammarAST ID, GrammarAST valueAST) { }
public void ruleOption(GrammarAST ID, GrammarAST valueAST) { }
public void blockOption(GrammarAST ID, GrammarAST valueAST) { }
public void defineToken(GrammarAST ID) { }
public void defineChannel(GrammarAST ID) { }
public void globalNamedAction(GrammarAST scope, GrammarAST ID, ActionAST action) { }
public void importGrammar(GrammarAST label, GrammarAST ID) { }

public void modeDef(GrammarAST m, GrammarAST ID) { }

public void discoverRules(GrammarAST rules) { }
public void finishRules(GrammarAST rule)
 { }
public void discoverRule(RuleAST rule, GrammarAST ID, List<GrammarAST> modifiers,
      ActionAST arg, ActionAST returns, GrammarAST thrws,
      GrammarAST options, ActionAST locals,
      List<GrammarAST> actions,
      GrammarAST block) { }
public void finishRule(RuleAST rule, GrammarAST ID, GrammarAST block) { }
public void discoverLexerRule(RuleAST rule, GrammarAST ID, List<GrammarAST> modifiers,
                        GrammarAST block) { }
public void finishLexerRule(RuleAST rule, GrammarAST ID, GrammarAST block) { }
public void ruleCatch(GrammarAST arg, ActionAST action) { }
public void finallyAction(ActionAST action) { }
public void discoverOuterAlt(AltAST alt) { }
public void finishOuterAlt(AltAST alt) { }
public void discoverAlt(AltAST alt) { }
public void finishAlt(AltAST alt) { }

public void ruleRef(GrammarAST ref, ActionAST arg) { }
public void tokenRef(TerminalAST ref) { }
public void elementOption(GrammarASTWithOptions t, GrammarAST ID, GrammarAST valueAST)
 { }
public void stringRef(TerminalAST ref) { }
public void wildcardRef(GrammarAST ref) { }
public void actionInAlt(ActionAST action) { }
public void sempredInAlt(PredAST pred) { }
public void label(GrammarAST op, GrammarAST ID, GrammarAST element) { }
public void lexerCallCommand(int outerAltNumber, GrammarAST ID, GrammarAST arg) { }
public void lexerCommand(int outerAltNumber, GrammarAST ID) { }

protected void enterGrammarSpec(GrammarAST tree) { }
```

```
protected void exitGrammarSpec(GrammarAST tree) { }

protected void enterPrequelConstructs(GrammarAST tree) { }
protected void exitPrequelConstructs(GrammarAST tree) { }

protected void enterPrequelConstruct(GrammarAST tree) { }
protected void exitPrequelConstruct(GrammarAST tree) { }

protected void enterOptionsSpec(GrammarAST tree) { }
protected void exitOptionsSpec(GrammarAST tree) { }

protected void enterOption(GrammarAST tree) { }
protected void exitOption(GrammarAST tree) { }

protected void enterOptionValue(GrammarAST tree) {
 }
protected void exitOptionValue(GrammarAST tree) { }

protected void enterDelegateGrammars(GrammarAST tree) { }
protected void exitDelegateGrammars(GrammarAST tree) { }

protected void enterDelegateGrammar(GrammarAST tree) { }
protected void exitDelegateGrammar(GrammarAST tree) { }

protected void enterTokensSpec(GrammarAST tree) { }
protected void exitTokensSpec(GrammarAST tree) { }

protected void enterTokenSpec(GrammarAST tree) { }
protected void exitTokenSpec(GrammarAST tree) { }

protected void enterChannelsSpec(GrammarAST tree) { }
protected void exitChannelsSpec(GrammarAST tree) { }

protected void enterChannelSpec(GrammarAST tree) { }
protected void exitChannelSpec(GrammarAST tree) { }

protected void enterAction(GrammarAST tree) { }
protected void exitAction(GrammarAST tree) { }

protected void enterRules(GrammarAST tree) { }
protected void exitRules(GrammarAST tree) { }

protected void enterMode(GrammarAST tree) { }
protected void exitMode(GrammarAST tree) { }

protected void
 enterLexerRule(GrammarAST tree) { }
protected void exitLexerRule(GrammarAST tree) { }
```

```
protected void enterRule(GrammarAST tree) { }
protected void exitRule(GrammarAST tree) { }

protected void enterExceptionGroup(GrammarAST tree) { }
protected void exitExceptionGroup(GrammarAST tree) { }

protected void enterExceptionHandler(GrammarAST tree) { }
protected void exitExceptionHandler(GrammarAST tree) { }

protected void enterFinallyClause(GrammarAST tree) { }
protected void exitFinallyClause(GrammarAST tree) { }

protected void enterLocals(GrammarAST tree) { }
protected void exitLocals(GrammarAST tree) { }

protected void enterRuleReturns(GrammarAST tree) { }
protected void exitRuleReturns(GrammarAST tree) { }

protected void enterThrowsSpec(GrammarAST tree) { }
protected void exitThrowsSpec(GrammarAST tree) { }

protected void enterRuleAction(GrammarAST tree) { }
protected void exitRuleAction(GrammarAST tree) { }

protected void enterRuleModifier(GrammarAST tree) { }
protected void exitRuleModifier(GrammarAST
 tree) { }

protected void enterLexerRuleBlock(GrammarAST tree) { }
protected void exitLexerRuleBlock(GrammarAST tree) { }

protected void enterRuleBlock(GrammarAST tree) { }
protected void exitRuleBlock(GrammarAST tree) { }

protected void enterLexerOuterAlternative(AltAST tree) { }
protected void exitLexerOuterAlternative(AltAST tree) { }

protected void enterOuterAlternative(AltAST tree) { }
protected void exitOuterAlternative(AltAST tree) { }

protected void enterLexerAlternative(GrammarAST tree) { }
protected void exitLexerAlternative(GrammarAST tree) { }

protected void enterLexerElements(GrammarAST tree) { }
protected void exitLexerElements(GrammarAST tree) { }

protected void enterLexerElement(GrammarAST tree) { }
```

```
protected void exitLexerElement(GrammarAST tree) { }

protected void enterLabeledLexerElement(GrammarAST tree) { }
protected void exitLabeledLexerElement(GrammarAST tree) { }

protected void enterLexerBlock(GrammarAST tree) { }
protected void
 exitLexerBlock(GrammarAST tree) { }

protected void enterLexerAtom(GrammarAST tree) { }
protected void exitLexerAtom(GrammarAST tree) { }

protected void enterActionElement(GrammarAST tree) { }
protected void exitActionElement(GrammarAST tree) { }

protected void enterAlternative(AltAST tree) { }
protected void exitAlternative(AltAST tree) { }

protected void enterLexerCommand(GrammarAST tree) { }
protected void exitLexerCommand(GrammarAST tree) { }

protected void enterLexerCommandExpr(GrammarAST tree) { }
protected void exitLexerCommandExpr(GrammarAST tree) { }

protected void enterElement(GrammarAST tree) { }
protected void exitElement(GrammarAST tree) { }

protected void enterAstOperand(GrammarAST tree) { }
protected void exitAstOperand(GrammarAST tree) { }

protected void enterLabeledElement(GrammarAST tree) { }
protected void exitLabeledElement(GrammarAST tree) { }

protected void enterSubrule(GrammarAST tree) { }
protected void exitSubrule(GrammarAST tree) { }

protected void enterLexerSubrule(GrammarAST
 tree) { }
protected void exitLexerSubrule(GrammarAST tree) { }

protected void enterBlockSuffix(GrammarAST tree) { }
protected void exitBlockSuffix(GrammarAST tree) { }

protected void enterEbnfSuffix(GrammarAST tree) { }
protected void exitEbnfSuffix(GrammarAST tree) { }

protected void enterAtom(GrammarAST tree) { }
protected void exitAtom(GrammarAST tree) { }
```

```
protected void enterBlockSet(GrammarAST tree) { }
protected void exitBlockSet(GrammarAST tree) { }

protected void enterSetElement(GrammarAST tree) { }
protected void exitSetElement(GrammarAST tree) { }

protected void enterBlock(GrammarAST tree) { }
protected void exitBlock(GrammarAST tree) { }

protected void enterRuleref(GrammarAST tree) { }
protected void exitRuleref(GrammarAST tree) { }

protected void enterRange(GrammarAST tree) { }
protected void exitRange(GrammarAST tree) { }

protected void enterTerminal(GrammarAST tree) { }
protected void exitTerminal(GrammarAST tree) { }

protected void enterElementOptions(GrammarAST
 tree) { }
protected void exitElementOptions(GrammarAST tree) { }

protected void enterElementOption(GrammarAST tree) { }
protected void exitElementOption(GrammarAST tree) { }

 @Override
 public void traceIn(String ruleName, int ruleIndex)  {
  System.err.println("enter "+ruleName+": "+input.LT(1));
 }

 @Override
 public void traceOut(String ruleName, int ruleIndex)  {
  System.err.println("exit "+ruleName+": "+input.LT(1));
 }
}

grammarSpec
@init {
 enterGrammarSpec($start);
}
@after {
 exitGrammarSpec($start);
}
   :   ^( GRAMMAR ID {grammarName=$ID.text;}
     {discoverGrammar((GrammarRootAST)$GRAMMAR, $ID);}
      prequelConstructs
     {finishPrequels($prequelConstructs.firstOne);}
```

```
      rules mode*
     {finishGrammar((GrammarRootAST)$GRAMMAR, $ID);}
   )
 ;

prequelConstructs returns [GrammarAST firstOne=null]
@init {
 enterPrequelConstructs($start);
}
@after {
 exitPrequelConstructs($start);
}
 : {$firstOne=$start;} prequelConstruct+
 |
 ;

prequelConstruct
@init
 {
 enterPrequelConstructs($start);
}
@after {
 exitPrequelConstructs($start);
}
 :   optionsSpec
   |   delegateGrammars
   |   tokensSpec
   |   channelsSpec
   |   action
   ;

optionsSpec
@init {
 enterOptionsSpec($start);
}
@after {
 exitOptionsSpec($start);
}
 : ^(OPTIONS option*)
   ;

option
@init {
 enterOption($start);
 boolean rule = inContext("RULE ...");
 boolean block = inContext("BLOCK ...");
}
@after {
```

```
 exitOption($start);
}
   :   ^(a=ASSIGN ID v=optionValue)
    {
    if ( block ) blockOption($ID, $v.start); // most specific first
    else if ( rule ) ruleOption($ID, $v.start);
    else grammarOption($ID, $v.start);
    }
   ;

optionValue returns [String v]
@init {
 enterOptionValue($start);
 $v = $start.token.getText();
}
@after {
 exitOptionValue($start);
}
   :   ID
   |   STRING_LITERAL
   |   INT
   ;

delegateGrammars
@init {
 enterDelegateGrammars($start);
}
@after {
 exitDelegateGrammars($start);
}
 :   ^(IMPORT delegateGrammar+)
 ;

delegateGrammar
@init
 {
 enterDelegateGrammar($start);
}
@after {
 exitDelegateGrammar($start);
}
   :   ^(ASSIGN label=ID id=ID) {importGrammar($label, $id);}
   |   id=ID      {importGrammar(null, $id);}
   ;

tokensSpec
@init {
 enterTokensSpec($start);
```

```
}
@after {
 exitTokensSpec($start);
}
 :   ^(TOKENS_SPEC tokenSpec+)
 ;

tokenSpec
@init {
 enterTokenSpec($start);
}
@after {
 exitTokenSpec($start);
}
 : ID     {defineToken($ID);}
 ;

channelsSpec
@init {
 enterChannelsSpec($start);
}
@after {
 exitChannelsSpec($start);
}
 :   ^(CHANNELS channelSpec+)
 ;

channelSpec
@init {
 enterChannelSpec($start);
}
@after {
 exitChannelSpec($start);
}
 : ID     {defineChannel($ID);}
 ;

action
@init {
 enterAction($start);
}
@after {
 exitAction($start);
}
 : ^(AT sc=ID? name=ID ACTION) {globalNamedAction($sc, $name, (ActionAST)$ACTION);}
 ;

rules
```

```
@init {
 enterRules($start);
}
@after {
 exitRules($start);
}
   : ^(RULES {discoverRules($RULES);} (rule|lexerRule)* {finishRules($RULES);})
    ;

mode
@init {
 enterMode($start);
}
@after {
 exitMode($start);
}
 : ^( MODE ID {currentModeName=$ID.text; modeDef($MODE, $ID);} lexerRule* )
 ;

lexerRule
@init {
 enterLexerRule($start);
 List<GrammarAST> mods = new ArrayList<GrammarAST>();
 currentOuterAltNumber=0;
}
@after {
 exitLexerRule($start);
}
 : ^( RULE TOKEN_REF
   {currentRuleName=$TOKEN_REF.text; currentRuleAST=$RULE;}
   (^(RULEMODIFIERS m=FRAGMENT {mods.add($m);}))?
       {discoverLexerRule((RuleAST)$RULE, $TOKEN_REF, mods, (GrammarAST)input.LT(1));}
       lexerRuleBlock
       {
       finishLexerRule((RuleAST)$RULE, $TOKEN_REF, $lexerRuleBlock.start);
       currentRuleName=null; currentRuleAST=null;
       }
       )
 ;

rule
@init {
 enterRule($start);
 List<GrammarAST> mods = new ArrayList<GrammarAST>();
 List<GrammarAST> actions = new ArrayList<GrammarAST>(); // track roots
 currentOuterAltNumber=0;
}
@after {
```

```
 exitRule($start);
}
 :   ^( RULE RULE_REF {currentRuleName=$RULE_REF.text;
 currentRuleAST=$RULE;}
   (^(RULEMODIFIERS (m=ruleModifier{mods.add($m.start);})+))?
   ARG_ACTION?
       ret=ruleReturns?
       thr=throwsSpec?
       loc=locals?
       ( opts=optionsSpec
      |   a=ruleAction {actions.add($a.start);}
      )*
       {discoverRule((RuleAST)$RULE, $RULE_REF, mods, (ActionAST)$ARG_ACTION,
           $ret.start!=null?(ActionAST)$ret.start.getChild(0):null,
           $thr.start, $opts.start,
           $loc.start!=null?(ActionAST)$loc.start.getChild(0):null,
           actions, (GrammarAST)input.LT(1));}
       ruleBlock exceptionGroup
       {finishRule((RuleAST)$RULE, $RULE_REF, $ruleBlock.start); currentRuleName=null; currentRuleAST=null;}
       )
   ;

exceptionGroup
@init {
 enterExceptionGroup($start);
}
@after {
 exitExceptionGroup($start);
}
   : exceptionHandler* finallyClause?
   ;

exceptionHandler
@init {
 enterExceptionHandler($start);
}
@after {
 exitExceptionHandler($start);
}
 : ^(CATCH ARG_ACTION ACTION) {ruleCatch($ARG_ACTION,
 (ActionAST)$ACTION);}
 ;

finallyClause
@init {
 enterFinallyClause($start);
}
@after {
```

```
 exitFinallyClause($start);
}
 : ^(FINALLY ACTION)    {finallyAction((ActionAST)$ACTION);}
 ;

locals
@init {
 enterLocals($start);
}
@after {
 exitLocals($start);
}
 : ^(LOCALS ARG_ACTION)
 ;

ruleReturns
@init {
 enterRuleReturns($start);
}
@after {
 exitRuleReturns($start);
}
 : ^(RETURNS ARG_ACTION)
 ;

throwsSpec
@init {
 enterThrowsSpec($start);
}
@after {
 exitThrowsSpec($start);
}
   : ^(THROWS ID+)
   ;

ruleAction
@init {
 enterRuleAction($start);
}
@after {
 exitRuleAction($start);
}
 : ^(AT ID ACTION)
 ;

ruleModifier
@init {
 enterRuleModifier($start);
```

```
}
@after {
 exitRuleModifier($start);
}
   : PUBLIC
   | PRIVATE
   | PROTECTED
   | FRAGMENT
   ;

lexerRuleBlock
@init {
 enterLexerRuleBlock($start);
}
@after {
 exitLexerRuleBlock($start);
}
   : ^( BLOCK
     ( {
      currentOuterAltRoot = (GrammarAST)input.LT(1);
    currentOuterAltNumber++;
    }
      lexerOuterAlternative
      )+
    )
   ;

ruleBlock
@init {
 enterRuleBlock($start);
}
@after {
 exitRuleBlock($start);
}
   : ^( BLOCK
     ( {
      currentOuterAltRoot = (GrammarAST)input.LT(1);
    currentOuterAltNumber++;
    }
      outerAlternative
     )+
    )
   ;

lexerOuterAlternative
@init {
 enterLexerOuterAlternative((AltAST)$start);
 discoverOuterAlt((AltAST)$start);
```

```
}
@after {
 finishOuterAlt((AltAST)$start);
 exitLexerOuterAlternative((AltAST)$start);
}
 : lexerAlternative
 ;


outerAlternative
@init {
 enterOuterAlternative((AltAST)$start);
 discoverOuterAlt((AltAST)$start);
}
@after {
 finishOuterAlt((AltAST)$start);
 exitOuterAlternative((AltAST)$start);
}
 : alternative
 ;

lexerAlternative
@init {
 enterLexerAlternative($start);
}
@after {
 exitLexerAlternative($start);
}
 : ^(LEXER_ALT_ACTION lexerElements lexerCommand+)
   |   lexerElements
   ;

lexerElements
@init {
 enterLexerElements($start);
}
@after {
 exitLexerElements($start);
}
   : ^(ALT
 lexerElement+)
   ;

lexerElement
@init {
 enterLexerElement($start);
}
@after {
```

```
 exitLexerElement($start);
}
 : labeledLexerElement
 | lexerAtom
 | lexerSubrule
 |   ACTION      {actionInAlt((ActionAST)$ACTION);}
 |   SEMPRED      {sempredInAlt((PredAST)$SEMPRED);}
 |   ^(ACTION elementOptions) {actionInAlt((ActionAST)$ACTION);}
 |   ^(SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);}
 | EPSILON
 ;

labeledLexerElement
@init {
 enterLabeledLexerElement($start);
}
@after {
 exitLabeledLexerElement($start);
}
   :   ^((ASSIGN|PLUS_ASSIGN) ID (lexerAtom|block))
 ;

lexerBlock
@init {
 enterLexerBlock($start);
}
@after {
 exitLexerBlock($start);
}
 : ^(BLOCK optionsSpec? lexerAlternative+)
   ;

lexerAtom
@init {
 enterLexerAtom($start);
}
@after {
 exitLexerAtom($start);
}
   :   terminal
   |   ^(NOT blockSet)
   |   blockSet
   |   ^(WILDCARD elementOptions)
   |   WILDCARD
   | LEXER_CHAR_SET
   |   range
   |   ruleref
   ;
```

```
actionElement
@init {
 enterActionElement($start);
}
@after
 {
 exitActionElement($start);
}
 : ACTION
 |   ^(ACTION elementOptions)
 |   SEMPRED
 |   ^(SEMPRED elementOptions)
 ;

alternative
@init {
 enterAlternative((AltAST)$start);
 discoverAlt((AltAST)$start);
}
@after {
 finishAlt((AltAST)$start);
 exitAlternative((AltAST)$start);
}
 : ^(ALT elementOptions? element+)
 | ^(ALT elementOptions? EPSILON)
   ;

lexerCommand
@init {
 enterLexerCommand($start);
}
@after {
 exitLexerCommand($start);
}
 : ^(LEXER_ACTION_CALL ID lexerCommandExpr)
       {lexerCallCommand(currentOuterAltNumber, $ID, $lexerCommandExpr.start);}
 | ID
       {lexerCommand(currentOuterAltNumber, $ID);}
 ;

lexerCommandExpr
@init {
 enterLexerCommandExpr($start);
}
@after {
 exitLexerCommandExpr($start);
}
```

```
 : ID
 | INT
 ;

element
@init {
 enterElement($start);
}
@after {
 exitElement($start);
}
 : labeledElement
 | atom
 | subrule
 |   ACTION      {actionInAlt((ActionAST)$ACTION);}
 |   SEMPRED      {sempredInAlt((PredAST)$SEMPRED);}
 |   ^(ACTION
 elementOptions) {actionInAlt((ActionAST)$ACTION);}
 |   ^(SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);}

 | ^(NOT blockSet)
 | ^(NOT block)
 ;

astOperand
@init {
 enterAstOperand($start);
}
@after {
 exitAstOperand($start);
}
 : atom
 | ^(NOT blockSet)
 | ^(NOT block)
 ;

labeledElement
@init {
 enterLabeledElement($start);
}
@after {
 exitLabeledElement($start);
}
 : ^((ASSIGN|PLUS_ASSIGN) ID element) {label($start, $ID, $element.start);}
 ;

subrule
@init {
```

```
 enterSubrule($start);
}
@after {
 exitSubrule($start);
}
 : ^(blockSuffix block)
 |  block
   ;

lexerSubrule
@init {
 enterLexerSubrule($start);
}
@after {
 exitLexerSubrule($start);
}
 : ^(blockSuffix lexerBlock)
 |  lexerBlock
   ;

blockSuffix
@init {
 enterBlockSuffix($start);
}
@after {
 exitBlockSuffix($start);
}
   : ebnfSuffix
   ;

ebnfSuffix
@init {
 enterEbnfSuffix($start);
}
@after {
 exitEbnfSuffix($start);
}
 : OPTIONAL
  | CLOSURE
   | POSITIVE_CLOSURE
 ;

atom
@init {
 enterAtom($start);
}
@after
```

```
 {
 exitAtom($start);
}
 : ^(DOT ID terminal)
 | ^(DOT ID ruleref)
   | ^(WILDCARD elementOptions) {wildcardRef($WILDCARD);}
   | WILDCARD     {wildcardRef($WILDCARD);}
   |   terminal
   | blockSet
   |   ruleref
   ;

blockSet
@init {
 enterBlockSet($start);
}
@after {
 exitBlockSet($start);
}
 : ^(SET setElement+)
 ;

setElement
@init {
 enterSetElement($start);
}
@after {
 exitSetElement($start);
}
 : ^(STRING_LITERAL elementOptions)    {stringRef((TerminalAST)$STRING_LITERAL);}
 | ^(TOKEN_REF elementOptions)   {tokenRef((TerminalAST)$TOKEN_REF);}
 | STRING_LITERAL                  {stringRef((TerminalAST)$STRING_LITERAL);}
 | TOKEN_REF                    {tokenRef((TerminalAST)$TOKEN_REF);}
 | ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
  {
  stringRef((TerminalAST)$a);
  stringRef((TerminalAST)$b);
  }
      |      LEXER_CHAR_SET
 ;

block
@init {
 enterBlock($start);
}
@after {
 exitBlock($start);
}
```

```
   : ^(BLOCK optionsSpec? ruleAction* ACTION? alternative+)
    ;

ruleref
@init {
 enterRuleref($start);
}
@after {
 exitRuleref($start);
}
   : ^(RULE_REF arg=ARG_ACTION? elementOptions?)
    {
    ruleRef($RULE_REF, (ActionAST)$ARG_ACTION);
    if ( $arg!=null ) actionInAlt((ActionAST)$arg);
    }
   ;

range
@init {
 enterRange($start);
}
@after {
 exitRange($start);
}
   : ^(RANGE STRING_LITERAL STRING_LITERAL)
   ;

terminal
@init {
 enterTerminal($start);
}
@after {
 exitTerminal($start);
}
   :  ^(STRING_LITERAL elementOptions)
          {stringRef((TerminalAST)$STRING_LITERAL);}
   | STRING_LITERAL    {stringRef((TerminalAST)$STRING_LITERAL);}
   | ^(TOKEN_REF elementOptions) {tokenRef((TerminalAST)$TOKEN_REF);}
   | TOKEN_REF        {tokenRef((TerminalAST)$TOKEN_REF);}
   ;

elementOptions
@init {
 enterElementOptions($start);
}
@after {
 exitElementOptions($start);
}
```

```
   : ^(ELEMENT_OPTIONS elementOption[(GrammarASTWithOptions)$start.getParent()]*)
   ;

elementOption[GrammarASTWithOptions t]
@init {
 enterElementOption($start);
}
@after
 {
 exitElementOption($start);
}
   : ID        {elementOption(t, $ID, null);}
   |   ^(ASSIGN id=ID v=ID)   {elementOption(t, $id, $v);}
   |   ^(ASSIGN ID v=STRING_LITERAL) {elementOption(t, $ID, $v);}
   |   ^(ASSIGN ID v=ACTION)   {elementOption(t, $ID, $v);}
   |   ^(ASSIGN ID v=INT)    {elementOption(t, $ID, $v);}
   ;
```

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* /opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/parse/GrammarTreeVisitor.g
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*/

/** Find left-recursive rules */
tree grammar LeftRecursiveRuleWalker;

options {
 tokenVocab=ANTLRParser;
   ASTLabelType=GrammarAST;
}

@header {
package org.antlr.v4.parse;

import org.antlr.v4.misc.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
}

@members {
private String ruleName;
private int currentOuterAltNumber; // which outer alt of rule?
public int
 numAlts;  // how many alts for this rule total?

public void setAltAssoc(AltAST altTree, int alt) {}
public void binaryAlt(AltAST altTree, int alt) {}
public void prefixAlt(AltAST altTree, int alt) {}
public void suffixAlt(AltAST altTree, int alt) {}
public void otherAlt(AltAST altTree, int alt) {}
public void setReturnValues(GrammarAST t) {}
}

@rulecatch { }

// TODO: can get parser errors for not matching pattern; make them go away
public
rec_rule returns [boolean isLeftRec]
@init
{
 currentOuterAltNumber = 1;
}
 : ^( r=RULE id=RULE_REF {ruleName=$id.getText();}
   ruleModifier?
//   (ARG_ACTION)? shouldn't allow args, right?
```

```
   (^(RETURNS a=ARG_ACTION {setReturnValues($a);}))?
//        ( ^(THROWS .+) )? don't allow
       ( ^(LOCALS ARG_ACTION) )? // TODO: copy these to gen'd code
       ( ^(OPTIONS .*)
      |   ^(AT ID ACTION) // TODO: copy
      )*
   ruleBlock {$isLeftRec = $ruleBlock.isLeftRec;}
   exceptionGroup
  )
 ;

exceptionGroup
   : exceptionHandler* finallyClause?
    ;

exceptionHandler
 : ^(CATCH ARG_ACTION ACTION)
 ;

finallyClause
 : ^(FINALLY ACTION)
 ;

ruleModifier
   : PUBLIC
   | PRIVATE
   | PROTECTED
   ;

ruleBlock returns [boolean isLeftRec]
@init{boolean lr=false; this.numAlts = $start.getChildCount();}
 : ^( BLOCK
   (
    o=outerAlternative
    {if ($o.isLeftRec) $isLeftRec = true;}
    {currentOuterAltNumber++;}
   )+
  )
 ;

/** An alt is either prefix, suffix, binary, or ternary operation or "other" */
outerAlternative returns [boolean isLeftRec]
   :   (binary)=>          binary
                        {binaryAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
   |   (prefix)=>          prefix
                        {prefixAlt((AltAST)$start, currentOuterAltNumber);}
   |   (suffix)=>          suffix
                        {suffixAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
```

```
  |   nonLeftRecur        {otherAlt((AltAST)$start,  currentOuterAltNumber);}
  ;

binary
 : ^(
 ALT elementOptions? recurse element* recurse epsilonElement* )
      {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
 ;

prefix
 : ^( ALT elementOptions?
  ({!((CommonTree)input.LT(1)).getText().equals(ruleName)}? element)+
  recurse epsilonElement*
  )
       {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
 ;

suffix
  :   ^( ALT elementOptions? recurse element+ )
       {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
  ;

nonLeftRecur
  :   ^(ALT elementOptions? element+)
  ;

recurse
 : ^(ASSIGN ID recurseNoLabel)
 | ^(PLUS_ASSIGN ID recurseNoLabel)
 | recurseNoLabel
 ;

recurseNoLabel : {((CommonTree)input.LT(1)).getText().equals(ruleName)}? RULE_REF;

token returns [GrammarAST t=null]
 : ^(ASSIGN ID s=token {$t = $s.t;})
 | ^(PLUS_ASSIGN ID s=token {$t = $s.t;})
 | b=STRING_LITERAL        {$t = $b;}
  | ^(b=STRING_LITERAL elementOptions)  {$t = $b;}
  | ^(c=TOKEN_REF elementOptions)   {$t = $c;}
 | c=TOKEN_REF             {$t = $c;}
 ;

elementOptions
   : ^(ELEMENT_OPTIONS elementOption*)
  ;

elementOption
```

```
  : ID
  |   ^(ASSIGN ID ID)
  |   ^(ASSIGN ID STRING_LITERAL)
  |   ^(ASSIGN ID ACTION)
  |   ^(ASSIGN ID INT)
  ;

element
 : atom
 | ^(NOT element)
 | ^(RANGE atom atom)
 | ^(ASSIGN ID element)
 | ^(PLUS_ASSIGN ID element)
  | ^(SET setElement+)
  |   RULE_REF
 | ebnf
 | epsilonElement
 ;

epsilonElement
 : ACTION
 | SEMPRED
 | EPSILON
 | ^(ACTION elementOptions)
 | ^(SEMPRED elementOptions)
 ;

setElement
 : ^(STRING_LITERAL elementOptions)
 | ^(TOKEN_REF elementOptions)
 | STRING_LITERAL
 | TOKEN_REF
 ;

ebnf:   block
  |   ^( OPTIONAL block )
  |   ^( CLOSURE block )
  |   ^( POSITIVE_CLOSURE block )
  ;

block
  : ^(BLOCK ACTION? alternative+)
  ;

alternative
 : ^(ALT elementOptions? element+)
  ;
```

```
atom
 : ^(RULE_REF ARG_ACTION? elementOptions?)
   |  ^(STRING_LITERAL elementOptions)
 | STRING_LITERAL
   | ^(TOKEN_REF elementOptions)
 | TOKEN_REF
   | ^(WILDCARD elementOptions)
 | WILDCARD
 | ^(DOT
 ID element)
 ;
```

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* /opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/parse/LeftRecursiveRuleWalker.g
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*/
```

```
tree grammar BlockSetTransformer;
options {
 language     = Java;
 tokenVocab   = ANTLRParser;
 ASTLabelType = GrammarAST;
 output   = AST;
 filter   = true;
}

@header {
package org.antlr.v4.parse;
import org.antlr.v4.misc.Utils;
import org.antlr.v4.misc.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.util.List;
import java.util.Set;
import java.util.HashSet;
import
 java.util.ArrayList;
import org.antlr.v4.runtime.misc.IntervalSet;
}

@members {
public String currentRuleName;
public GrammarAST currentAlt;
public Grammar g;
public BlockSetTransformer(TreeNodeStream input, Grammar g) {
   this(input, new RecognizerSharedState());
   this.g = g;
}
}

topdown
   : ^(RULE (id=TOKEN_REF|id=RULE_REF) {currentRuleName=$id.text;} .+)
   | setAlt
   | ebnfBlockSet
   | blockSet
 ;

setAlt
 : {inContext("RULE BLOCK")}?
  ALT {currentAlt = $start;}
 ;

// (BLOCK (ALT (+ (BLOCK (ALT INT) (ALT ID)))))
ebnfBlockSet
@after {
```

```
 GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
 : ^(ebnfSuffix blockSet) -> ^(ebnfSuffix ^(BLOCK<BlockAST> ^(ALT<AltAST> blockSet)))
 ;

ebnfSuffix
@after {$tree = (GrammarAST)adaptor.dupNode($start);}
 : OPTIONAL
  | CLOSURE
   | POSITIVE_CLOSURE
 ;

blockSet
@init {
boolean inLexer = Grammar.isTokenName(currentRuleName);
}
@after {
 GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
 : {inContext("RULE")}?
 // top-level: rule block and > 1 alt
  ^(BLOCK ^(alt=ALT elementOptions? {((AltAST)$alt).altLabel==null}? setElement[inLexer]) ( ^(ALT
elementOptions? setElement[inLexer]) )+)
  -> ^(BLOCK<BlockAST>[$BLOCK.token] ^(ALT<AltAST>[$BLOCK.token,"ALT"] ^(SET[$BLOCK.token,
"SET"] setElement+)))
 | {!inContext("RULE")}? // if not rule block and > 1 alt
  ^(BLOCK ^(ALT elementOptions? setElement[inLexer]) ( ^(ALT elementOptions? setElement[inLexer]) )+)
  -> ^(SET[$BLOCK.token, "SET"] setElement+)
 ;

setElement[boolean inLexer]
@after {
 GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
 : ( ^(a=STRING_LITERAL elementOptions) {!inLexer ||
CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1}?
  |   a=STRING_LITERAL {!inLexer || CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1}?
  | {!inLexer}?=> ^(TOKEN_REF elementOptions)
  | {!inLexer}?=>   TOKEN_REF
  | {inLexer}?=>  ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
   {CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1
 &&
    CharSupport.getCharValueFromGrammarCharLiteral($b.getText())!=-1}?
  )
 ;

elementOptions
 : ^(ELEMENT_OPTIONS elementOption*)
```

```
 ;

elementOption
 : ID
 | ^(ASSIGN id=ID v=ID)
 | ^(ASSIGN ID v=STRING_LITERAL)
 | ^(ASSIGN ID v=ACTION)
 | ^(ASSIGN ID v=INT)
 ;
```

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* /opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/parse/BlockSetTransformer.g
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*/

/** How to generate rules derived from left-recursive rules.
*  These rely on recRuleAltPredicate(),
*  recRuleArg(), recRuleSetResultAction(), recRuleSetReturnAction()
*  templates in main language.stg
*/
group LeftRecursiveRules;

recRule(ruleName, argName, primaryAlts, opAlts, setResultAction,
      userRetvals, leftRecursiveRuleRefLabels) ::=
<<
<ruleName><if(userRetvals)>
 returns [<userRetvals>]<endif>
   :   ( {} <primaryAlts:{alt | <alt.altText> }; separator="\n        | ">
       )
       (
```

```
        <opAlts; separator="\n        | ">
      )*
   ;
>>

recRuleAlt(alt, precOption, opPrec, pred) ::= <<
{<pred>}?\<<precOption>=<opPrec>\> <alt.altText>
>>
```

Found in path(s):
* /opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/tool/templates/LeftRecursiveRules.stg
No license file was found, but licenses were detected in source scan.


```
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*/
```


```
// File      : A3Lexer.g
// Author    : Jim Idle (jimi@temporal-wave.com)
// Copyright : Free BSD - See @header clause below
```

```
// Version   : First implemented as part of ANTLR 3.2 this is the self
//           hosting ANTLR 3 Lexer.
//
// Description
// -----------
// This is the definitive lexer grammar for parsing ANTLR V3.x.x grammars. All other
// gramnmars are derived from
 this grammar via source code control integration (perforce)
// or by the gdiff tool.
//
// This grammar and its associated grmmmars A3Parser.g and A3Walker.g exhibit the following
// traits, which are recommended for all production quality grammars:
//
// 1) They are separate grammars, not composite grammars;
// 2) They implement all supporting methods in a superclass (at least this is recommended
//    for language targets that support inheritence;
// 3) All errors are pushed as far down the parsing chain as possible, which means
//    that the lexer tries to defer error reporting to the parser, and the parser
//    tries to defer error reporting to a semantic phase consisting of a single
//    walk of the AST. The reason for this is that the error messages produced
//    from later phases of the parse will generally have better context and so
//    be more useful to the end user. Consider the message: "Syntax error at 'options'"
//    vs: "You cannot specify two options{} sections
 in a single grammar file".
// 4) The lexer is 'programmed' to catch common mistakes such as unterminated literals
//    and report them specifically and not just issue confusing lexer mismatch errors.
//

/** Read in an ANTLR grammar and build an AST.  Try not to do
*  any actions, just build the tree.
*
*  The phases are:
*
*  A3Lexer.g (this file)
*           A3Parser.g
*           A3Verify.g (derived from A3Walker.g)
*  assign.types.g
*  define.g
*  buildnfa.g
*  antlr.print.g (optional)
*  codegen.g
*
*  Terence Parr
*  University of San Francisco
*  2005
*  Jim Idle (this v3 grammar)
*  Temporal Wave LLC
*  2009
```

```
*/
lexer grammar ANTLRLexer;

// ================================================================================
// Note that while this grammar does not care about order of constructs
// that don't really matter, such as options before @header etc, it must first
// be parsed by the original v2 parser, before it replaces it. That parser does
// care
 about order of structures. Hence we are constrained by the v2 parser
// for at least the first bootstrap release that causes this parser to replace
// the v2 version.
// ================================================================================

// -------
// Options
//
// V3 option directives to tell the tool what we are asking of it for this
// grammar.
//
options {

 // Target language is Java, which is the default but being specific
 // here as this grammar is also meant as a good example grammar for
 // for users.
 //
 language      = Java;

 // The super class that this lexer should expect to inherit from, and
 // which contains any and all support routines for the lexer. This is
 // commented out in this baseline (definitive or normative grammar)
 // - see the ANTLR tool implementation for hints on how to use the super
 //   class
 //
 //superclass    = AbstractA3Lexer;
}

tokens { SEMPRED; TOKEN_REF; RULE_REF; LEXER_CHAR_SET; ARG_ACTION; }

// Include the copyright in this
 source and also the generated source
//
@lexer::header {
/*
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```

```
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THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
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THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
}


@members {
 public static final int COMMENTS_CHANNEL = 2;

   public CommonTokenStream tokens; // track stream we push to; need for context info
   public boolean isLexerRule = false;

 public void grammarError(ErrorType etype, org.antlr.runtime.Token token, Object... args) { }

 /** scan backwards from current point in this.tokens list
  *  looking for the start of the rule or subrule.
  *  Return token or null if for some reason
 we can't find the start.
  */
 public Token getRuleOrSubruleStartToken() {
     if ( tokens==null ) return null;
  int i = tokens.index();
       int n = tokens.size();
       if ( i>=n ) i = n-1; // seems index == n as we lex
  while ( i>=0 && i<n) {
   int ttype = tokens.get(i).getType();
   if ( ttype == LPAREN || ttype == TOKEN_REF || ttype == RULE_REF ) {
    return tokens.get(i);
```

```
   }
   i--;
  }
  return null;
 }
}

// --------
// Comments
//
// ANTLR comments can be multi or single line and we don't care
// which particularly. However we also accept Javadoc style comments
// of the form: /** ... */ and we do take care to distinguish those
// from ordinary multi-line comments
// Note how we guide the lexical PATH because we want to issue a decriptive
// error message in case of a standalone '/' character, which makes no
// sense in ANTLR source code. We alo trap unterminated multi-line comments
//
fragment DOC_COMMENT : ;
COMMENT
@init {

 // Record the start line and offsets
 as if we need to report an
 // unterminated comment, then we want to show the start of the comment
 // we think is broken, not the end, where people will have to try and work
 // it out themselves.
 //
 int startLine = $line;
 int offset    = getCharPositionInLine();
}
  : // Eat the first character only, then see if we have a comment
    // or something silly.
    //
    '/'  // Comment introducer

    (
        // Single line comment, possibly with embedded src/line directives
        // in a similar style to the C pre-processor, allowing generated
        // code to refer the programmer back to the original source code
        // in case of error.
        //
        '/'
          (
              (' $ANTLR')=> ' $ANTLR' SRC
            | ~(NLCHARS)*
          )
```

```
      | // Multi-line comment, which may be a documentation comment
        // if it starts /** (note that we protect against accidentaly
        // recognizing a comment /**/ as a documentation
comment
        //
        '*' (
            { input.LA(2) != '/'}?=> '*' { $type = DOC_COMMENT; }
          | { true }?=>  // Required to cover all alts with predicates
          )

          // Should we support embedded multiline comments here?
          //
          (
              // Pick out end of multiline comment and exit the loop
              // if we find it.
              //
              {    !(input.LA(1) == '*' && input.LA(2) == '/') }?

                // Anything else other than the non-greedy match of
                // the comment close sequence
                //
                .
          )*
         (
              // Look for the comment terminator, but if it is accidentally
              // unterminated, then we will hit EOF, which will trigger the
              // epsilon alt and hence we can issue an error message relative
              // to the start of
the unterminated multi-line comment
              //
              '*/'

          | // Unterminated comment!
              //
              {
                // ErrorManager.msg(Msg.UNTERMINATED_DOC_COMMENT, startLine, offset, $pos, startLine,
offset, $pos, (Object)null);
              }
         )

      | // There was nothing that made sense following the opening '/' and so
        // we issue an error regarding the malformed comment
        //
        {
          // TODO: Insert error message relative to comment start
          //
        }
    )
```

```
    {
     // We do not wish to pass the comments in to the parser. If you are
     // writing a formatter then you will want to preserve the comments off
     // channel, but could just skip and save token space if not.
     //
     $channel=COMMENTS_CHANNEL;
    }
  ;

ARG_OR_CHARSET
options {k=1;}
  :   {isLexerRule}?=> LEXER_CHAR_SET {$type=LEXER_CHAR_SET;}
   |   {!isLexerRule}?=> ARG_ACTION
      {
      $type=ARG_ACTION;
      // Set the token text to our gathered string minus outer [ ]
      String t = $text;
      t = t.substring(1,t.length()-1);
      setText(t);
      }
  ;

fragment
LEXER_CHAR_SET
 : '['
  ( '\\' ~('\r'|'\n')
  | ~('\r'|'\n'|'\\'|']')
  )*
  ']'
 ;

// --------------
// Argument specs
//
// Certain argument lists, such as those specifying call parameters
// to a rule invocation, or input parameters to a rule specification
// are contained within square brackets. In the lexer we consume them
// all at once and sort them out later in the grammar analysis.
//
fragment
ARG_ACTION
 : '['
       (
          ARG_ACTION

         | ('")=>ACTION_STRING_LITERAL

         | ('\')=>ACTION_CHAR_LITERAL
```

```
        | ~('['|']')
      )*

      ']'
 ;

// -------
// Actions
//
// Other than making sure to distinguish between { and } embedded
// within what we have assumed to be literals in the action
 code, the
// job of the lexer is merely to gather the code within the action
// (delimited by {}) and pass it to the parser as a single token.
// We know that this token will be asked for its text somewhere
// in the upcoming parse, so setting the text here to exclude
// the delimiting {} is no additional overhead.
//
ACTION
 : NESTED_ACTION
  ( '?' {$type = SEMPRED;}
   ( (WSNLCHARS* '=>') => WSNLCHARS* '=>' // v3 gated sempred
    {
    Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
    t.setLine(state.tokenStartLine);
    t.setText(state.text);
    t.setCharPositionInLine(state.tokenStartCharPositionInLine);
    grammarError(ErrorType.V3_GATED_SEMPRED, t);
    }
   )?
  )?
 ;

// ----------------
// Action structure
//
// Many language targets use {} as block delimiters and so we
// must recursively match {} delimited blocks to balance the
// braces. Additionally, we must make some assumptions about
// literal string representation
 in the target language. We assume
// that they are delimited by ' or '' and so consume these
// in their own alts so as not to inadvertantly match {}.
// This rule calls itself on matching a {
//
fragment
NESTED_ACTION
```

```
@init {

 // Record the start line and offsets as if we need to report an
 // unterminated block, then we want to show the start of the comment
 // we think is broken, not the end, where people will have to try and work
 // it out themselves.
 //
 int startLine = getLine();
 int offset    = getCharPositionInLine();
}

  : // Action and other blocks start with opening {
    //
  '{'
    (
    // And now we can match one of a number of embedded
    // elements within the action until we find a
    // } that balances the opening {. If we do not find
    // the balanced } then we will hit EOF and can issue
    // an error message about the brace that we belive to
    // be mismatched. This won't be foolproof but we will
    // be able to at least report
 an error against the
    // opening brace that we feel is in error and this will
    // guide the user to the correction as best we can.
    //


      // An embedded {} block
     //
     NESTED_ACTION

     | // What appears to be a literal
      //
      ACTION_CHAR_LITERAL

     | // We have assumed that the target language has C/Java
      // type comments.
      //
      COMMENT

     | // What appears to be a literal
      //
      ACTION_STRING_LITERAL

    | // What appears to be an escape sequence
     //
     ACTION_ESC
```

```
    | // Some other single character that is not
      // handled above
      //
      ~('\\'|'"'|'\"'|'/'|'{'|'}')

    )*

 (
    // Correctly balanced closing brace
    //
    '}'

  | // Looks like have an imblanced {} block, report
    // with respect to the opening brace.
    //
    {
        // TODO: Report imbalanced {}
        System.out.println("Block starting  at line " + startLine
 + " offset " + (offset+1) + " contains imbalanced {} or is missing a }");
    }
 )
  ;


// Keywords
// --------
// keywords used to specify ANTLR v3 grammars. Keywords may not be used as
// labels for rules or in any other context where they would be ambiguous
// with the keyword vs some other identifier
// OPTIONS, TOKENS, and CHANNELS must also consume the opening brace that captures
// their option block, as this is the easiest way to parse it separate
// to an ACTION block, despite it using the same {} delimiters.
//
OPTIONS      : 'options'  WSNLCHARS* '{'  ;
TOKENS_SPEC  : 'tokens'   WSNLCHARS* '{'  ;
CHANNELS     : 'channels' WSNLCHARS* '{'  ;

IMPORT       : 'import'               ;
FRAGMENT     : 'fragment'             ;
LEXER        : 'lexer'                ;
PARSER       : 'parser'               ;
GRAMMAR      : 'grammar'              ;
TREE_GRAMMAR : 'tree' WSNLCHARS* 'grammar' ;
PROTECTED    : 'protected'            ;
PUBLIC       : 'public'               ;
PRIVATE
```

```
    : 'private'             ;
RETURNS     : 'returns'             ;
LOCALS      : 'locals'              ;
THROWS      : 'throws'              ;
CATCH       : 'catch'               ;
FINALLY     : 'finally'             ;
MODE        : 'mode'                ;

// -----------
// Punctuation
//
// Character sequences used as separators, delimters, operators, etc
//
COLON       : ':'
            {
            // scan backwards, looking for a RULE_REF or TOKEN_REF.
            // which would indicate the start of a rule definition.
            // If we see a LPAREN, then it's the start of the subrule.
            // this.tokens is the token string we are pushing into, so
            // just loop backwards looking for a rule definition. Then
            // we set isLexerRule.
            Token t = getRuleOrSubruleStartToken();
            if ( t!=null ) {
                if ( t.getType()==RULE_REF ) isLexerRule = false;
                else
 if ( t.getType()==TOKEN_REF ) isLexerRule = true;
                // else must be subrule; don't alter context
            }
            }
          ;
COLONCOLON   : '::'                  ;
COMMA       : ','                   ;
SEMI        : ';'                   ;
LPAREN      : '('                   ;
RPAREN      : ')'                   ;
RARROW      : '->'                  ;
LT          : '<'                   ;
GT          : '>'                   ;
ASSIGN      : '='                   ;
QUESTION    : '?'                   ;
SYNPRED     : '=>'
    {
     Token t = new CommonToken(input, state.type, state.channel,
                        state.tokenStartCharIndex, getCharIndex()-1);
   t.setLine(state.tokenStartLine);
   t.setText(state.text);
   t.setCharPositionInLine(state.tokenStartCharPositionInLine);
   grammarError(ErrorType.V3_SYNPRED, t);
```

```
            $channel=HIDDEN;
    }
          ;
STAR        : '*'
    ;
PLUS        : '+'                   ;
PLUS_ASSIGN  : '+='                 ;
OR          : '|'                   ;
DOLLAR      : '$'                   ;
DOT       : '.'                   ; // can be WILDCARD or DOT in qid or imported rule ref
RANGE       : '..'                  ;
AT          : '@'                   ;
POUND       : '#'                   ;
NOT         : '~'                   ;
RBRACE      : '}'                   ;

/** Allow unicode rule/token names */
ID   : a=NameStartChar NameChar*
    {
    if ( Grammar.isTokenName($a.text) ) $type = TOKEN_REF;
    else $type = RULE_REF;
    }
   ;

fragment
NameChar    :   NameStartChar
          |   '0'..'9'
          |   '_'
          |   '\u00B7'
          |   '\u0300'..'\u036F'
          |   '\u203F'..'\u2040'
          ;

fragment
NameStartChar
          :   'A'..'Z' | 'a'..'z'
          |   '\u00C0'..'\u00D6'
          |   '\u00D8'..'\u00F6'
          |   '\u00F8'..'\u02FF'

   |   '\u0370'..'\u037D'
          |   '\u037F'..'\u1FFF'
          |   '\u200C'..'\u200D'
          |   '\u2070'..'\u218F'
          |   '\u2C00'..'\u2FEF'
          |   '\u3001'..'\uD7FF'
          |   '\uF900'..'\uFDCF'
          |   '\uFDF0'..'\uFEFE'
```

```
        |   '\uFF00'..'\uFFFD'
        ; // ignores | ['\u10000-'\uEFFFF] ;

// ----------------------------
// Literals embedded in actions
//
// Note that we have made the assumption that the language used within
// actions uses the fairly standard '' and ' delimiters for literals and
// that within these literals, characters are escaped using the \ character.
// There are some languages which do not conform to this in all cases, such
// as by using /string/ and so on. We will have to deal with such cases if
// if they come up in targets.
//

// Within actions, or other structures that are not part of the ANTLR
// syntax, we may encounter literal characters. Within these, we do
// not want to inadvertantly match
 things like '}' and so we eat them
// specifically. While this rule is called CHAR it allows for the fact that
// some languages may use/allow ' as the string delimiter.
//
fragment
ACTION_CHAR_LITERAL
 : '\'' (('\\')=>ACTION_ESC | ~'\'' )* '\'' 
 ;

// Within actions, or other structures that are not part of the ANTLR
// syntax, we may encounter literal strings. Within these, we do
// not want to inadvertantly match things like '}' and so we eat them
// specifically.
//
fragment
ACTION_STRING_LITERAL
 : '"' (('\\')=>ACTION_ESC | ~'")* '"' 
 ;

// Within literal strings and characters that are not part of the ANTLR
// syntax, we must allow for escaped character sequences so that we do not
// inadvertantly recognize the end of a string or character when the terminating
// delimiter has been esacped.
//
fragment
ACTION_ESC
 : '\\' .
 ;

// -------
// Integer
```

```
//
// Obviously (I hope) match an aribtrary long sequence of digits.
//
INT : ('0'..'9')+
   ;

// -----------
// Source spec
//
//
 A fragment rule for picking up information about an origrinating
// file from which the grammar we are parsing has been generated. This allows
// ANTLR to report errors against the originating file and not the generated
// file.
//
fragment
SRC : 'src' WSCHARS+ file=ACTION_STRING_LITERAL WSCHARS+ line=INT
    {
      // TODO: Add target specific code to change the source file name and current line number
      //
    }
  ;

// --------------
// Literal string
//
// ANTLR makes no disticintion between a single character literal and a
// multi-character string. All literals are single quote delimited and
// may contain unicode escape sequences of the form \uxxxx, where x
// is a valid hexadecimal number (as per Java basically).
STRING_LITERAL
  :  '\'' ( ( ESC_SEQ | ~('\\'|'\'|'\r'|'\n') ) )*
    (    '\'
    |    // Unterminated string literal
         {
         Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
          t.setLine(state.tokenStartLine);
         t.setText(state.text);
         t.setCharPositionInLine(state.tokenStartCharPositionInLine);
         grammarError(ErrorType.UNTERMINATED_STRING_LITERAL, t);
         }
    )
  ;

// A valid hex digit specification
//
fragment
HEX_DIGIT : ('0'..'9'|'a'..'f'|'A'..'F') ;
```

```
// Any kind of escaped character that we can embed within ANTLR
// literal strings.
//
fragment
ESC_SEQ
  : '\\'
      (
            // The standard escaped character set such as tab, newline,
            // etc.
            //
      'b'|'t'|'n'|'f'|'r'|'\'"|'\"|'\\'

       | // A Java style Unicode escape sequence
         //
         UNICODE_ESC

       | // An illegal escape seqeunce
         //
         {
             Token t = new CommonToken(input, state.type, state.channel, getCharIndex()-1, getCharIndex());
             t.setText(t.getText());
             t.setLine(input.getLine());

   t.setCharPositionInLine(input.getCharPositionInLine()-1);
             grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t);
         }
      )
  ;

fragment
UNICODE_ESC

@init {

 // Flag to tell us whether we have a valid number of
 // hex digits in the escape sequence
 //
 int hCount = 0;
}
  :   'u' // Leadin for unicode escape sequence

      // We now require 4 hex digits. Note though
      // that we accept any number of characters
      // and issue an error if we do not get 4. We cannot
      // use an inifinite count such as + because this
      // might consume too many, so we lay out the lexical
      // options and issue an error at the invalid paths.
```

```
      //
    (
      (
        HEX_DIGIT  { hCount++; }
          (
              HEX_DIGIT  { hCount++; }
            (
                HEX_DIGIT  { hCount++; }
                (
                    // Four valid hex digits, we are good
                    //

              HEX_DIGIT { hCount++; }

                  | // Three valid digits
                )

              | // Two valid digits
            )

          | // One valid digit
        )
          )
        | // No valid hex digits at all
    )

    // Now check the digit count and issue an error if we need to
    //
    {
     if (hCount != 4) {
            Token t = new CommonToken(input, state.type, state.channel, getCharIndex()-3-hCount, getCharIndex()-
1);
            t.setText(t.getText());
            t.setLine(input.getLine());
            t.setCharPositionInLine(input.getCharPositionInLine()-hCount-2);
            grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t);
     }
    }
   ;

// ----------
// Whitespace
//
// Characters and character constructs that are of no import
// to the parser and are used to make the grammar easier to read
// for humans.
//
WS
```

```
  : (
    ' '
     | '\t'
     | '\r'
     | '\n'
      | '\f'
   )+
   {$channel=HIDDEN;}
  ;

// A fragment rule for use in recognizing end of line in
// rules like COMMENT.
//
fragment
NLCHARS
  : '\n' | '\r'
  ;

// A fragment rule for recognizing traditional whitespace
// characters within lexer rules.
//
fragment
WSCHARS
  : ' ' | '\t' | '\f'
  ;

// A fragment rule for recognizing both traditional whitespace and
// end of line markers, when we don't care to distinguish but don't
// want any action code going on.
//
fragment
WSNLCHARS
  : ' ' | '\t' | '\f' | '\n' | '\r'
  ;

// This rule allows ANTLR 4 to parse grammars using the UTF-8 encoding with a
// byte order mark. Since this Unicode character doesn't appear as a token
// anywhere else in the grammar, we can simply skip all instances of it without
// problem. This rule will not break usage of \uFEFF inside a LEXER_CHAR_SET or
// STRING_LITERAL.
UnicodeBOM
  :   '\uFEFF' {skip();}
  ;

// -----------------
// Illegal Character
//
// This is an
```

```
 illegal character trap which is always the last rule in the
// lexer specification. It matches a single character of any value and being
// the last rule in the file will match when no other rule knows what to do
// about the character. It is reported as an error but is not passed on to the
// parser. This means that the parser to deal with the gramamr file anyway
// but we will not try to analyse or code generate from a file with lexical
// errors.
//
ERRCHAR
  : .
    {
      Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
      t.setLine(state.tokenStartLine);
      t.setText(state.text);
      t.setCharPositionInLine(state.tokenStartCharPositionInLine);
      String msg = getTokenErrorDisplay(t) + " came as a complete surprise to me";
      grammarError(ErrorType.SYNTAX_ERROR, t, msg);
      state.syntaxErrors++;
      skip();
    }
  ;
```

Found in path(s):
* /opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/parse/ANTLRLexer.g
No license file was found, but licenses were detected in source scan.

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* /opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/parse/GrammarToken.java
* /opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/codegen/model/Recognizer.java
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*/

Found in path(s):
* /opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/parse/ATNBuilder.java

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*/

// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<namedActions.header>
using System;
using System.Text;
using System.Diagnostics;
using System.Collections.Generic;
using Antlr4.Runtime;
using Antlr4.Runtime.Atn;
using
```

```
 Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
using DFA = Antlr4.Runtime.Dfa.DFA;

<parser>
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

ListenerFile(file, header) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>
using Antlr4.Runtime.Misc;
using IParseTreeListener = Antlr4.Runtime.Tree.IParseTreeListener;
using IToken = Antlr4.Runtime.IToken;

/// \<summary>
/// This interface defines a complete listener for a parse tree produced by
/// \<see cref="<csIdentifier.(file.parserName)>"/>.
/// \</summary>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public interface I<file.grammarName>Listener : IParseTreeListener {
 <file.listenerNames:{lname |
/// \<summary>
<if(file.listenerLabelRuleNames.(lname))>
/// Enter a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>.
<else>
///
 Enter a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
void Enter<lname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<lname; format="cap">Context
context);
/// \<summary>
<if(file.listenerLabelRuleNames.(lname))>
/// Exit a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>.
<else>
/// Exit a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \</summary>
```

```
/// \<param name="context">The parse tree.\</param>
void Exit<lname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<lname; format="cap">Context
context);}; separator="\n">
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

BaseListenerFile(file, header) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace
 <file.genPackage> {
<endif>
<header>

using Antlr4.Runtime.Misc;
using IErrorNode = Antlr4.Runtime.Tree.IErrorNode;
using ITerminalNode = Antlr4.Runtime.Tree.ITerminalNode;
using IToken = Antlr4.Runtime.IToken;
using ParserRuleContext = Antlr4.Runtime.ParserRuleContext;

/// \<summary>
/// This class provides an empty implementation of \<see cref="I<file.grammarName>Listener"/>,
/// which can be extended to create a listener which only needs to handle a subset
/// of the available methods.
/// \</summary>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <file.grammarName>BaseListener : I<file.grammarName>Listener {
 <file.listenerNames:{lname |
/// \<summary>
/// Enter a parse tree produced by \<see cref="<csIdentifier.(file.parserName)>.<csIdentifier.(lname)>"/>.
/// \<para>The default implementation does nothing.\</para>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
public virtual void
 Enter<lname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<lname; format="cap">Context context) {
\}
/// \<summary>
/// Exit a parse tree produced by \<see cref="<csIdentifier.(file.parserName)>.<csIdentifier.(lname)>"/>.
/// \<para>The default implementation does nothing.\</para>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
public virtual void Exit<lname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<lname;
format="cap">Context context) { \}}; separator="\n">
```

```
 /// \<inheritdoc/>
 /// \<remarks>The default implementation does nothing.\</remarks>
 public virtual void EnterEveryRule([NotNull] ParserRuleContext context) { }
 /// \<inheritdoc/>
 /// \<remarks>The default implementation does nothing.\</remarks>
 public virtual void ExitEveryRule([NotNull] ParserRuleContext context) { }
 /// \<inheritdoc/>
 /// \<remarks>The default implementation does nothing.\</remarks>
 public virtual void VisitTerminal([NotNull] ITerminalNode node) { }
 ///
 \<inheritdoc/>
 /// \<remarks>The default implementation does nothing.\</remarks>
 public virtual void VisitErrorNode([NotNull] IErrorNode node) { }
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

VisitorFile(file, header) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>
using Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
using IToken = Antlr4.Runtime.IToken;

/// \<summary>
/// This interface defines a complete generic visitor for a parse tree produced
/// by \<see cref="<csIdentifier.(file.parserName)>"/>.
/// \</summary>
/// \<typeparam name="Result">The return type of the visit operation.\</typeparam>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public interface I<file.grammarName>Visitor\<Result> : IParseTreeVisitor\<Result> {
 <file.visitorNames:{lname |
/// \<summary>
<if(file.visitorLabelRuleNames.(lname))>
/// Visit
 a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.visitorLabelRuleNames.(lname)>"/>.
<else>
/// Visit a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
```

```
/// \<return>The visitor result.\</return>
Result Visit<lname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<lname; format="cap">Context
context);}; separator="\n">
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

BaseVisitorFile(file, header) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>
using Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
using IToken = Antlr4.Runtime.IToken;
using ParserRuleContext = Antlr4.Runtime.ParserRuleContext;

/// \<summary>
/// This class provides an empty implementation of \<see cref="I<file.grammarName>Visitor{Result}"/>,
/// which can be extended
 to create a visitor which only needs to handle a subset
/// of the available methods.
/// \</summary>
/// \<typeparam name="Result">The return type of the visit operation.\</typeparam>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <file.grammarName>BaseVisitor\<Result> : AbstractParseTreeVisitor\<Result>,
I<file.grammarName>Visitor\<Result> {
 <file.visitorNames:{lname |
/// \<summary>
/// Visit a parse tree produced by \<see cref="<csIdentifier.(file.parserName)>.<csIdentifier.(lname)>"/>.
/// \<para>
/// The default implementation returns the result of calling \<see
cref="AbstractParseTreeVisitor{Result\}.VisitChildren(IRuleNode)"/>
/// on \<paramref name="context"/>.
/// \</para>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
/// \<return>The visitor result.\</return>
public virtual Result Visit<lname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<lname;
format="cap">Context
 context) { return VisitChildren(context); \}}; separator="\n">
}
<if(file.genPackage)>
} // namespace <file.genPackage>
```

```
<endif>
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
//------------------------------------------------------------------------------
// \<auto-generated>
//     This code was generated by a tool.
//     ANTLR Version: <ANTLRVersion>
//
//     Changes to this file may cause incorrect behavior and will be lost if
//     the code is regenerated.
// \</auto-generated>
//------------------------------------------------------------------------------

// Generated from <grammarFileName> by ANTLR <ANTLRVersion>

// Unreachable code detected
#pragma warning disable 0162
// The variable '...' is assigned but its value is never used
#pragma warning disable 0219
// Missing XML comment for publicly visible type or member '...'
#pragma warning disable 1591

>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser,
 funcs, atn, sempredFuncs, ctor, superClass) ::= <<
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <csIdentifier.(parser.name)> : <superClass; null="Parser"> {
 <if(parser.tokens)>
 public const int
  <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator=", ", wrap, anchor>;
 <endif>
 public const int
  <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
 public static readonly string[] ruleNames = {
  <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
 };

 <vocabulary(parser.literalNames, parser.symbolicNames)>

 public override string GrammarFileName { get { return "<parser.grammarFileName>"; } }
```

```
 public override string[] RuleNames { get { return ruleNames; } }

 public override string SerializedAtn { get { return _serializedATN; } }

 <namedActions.members>
 <parser:(ctor)()>
 <funcs; separator="\n">

<if(sempredFuncs)>
 public override bool Sempred(RuleContext
 _localctx, int ruleIndex, int predIndex) {
  switch (ruleIndex) {
  <parser.sempredFuncs.values:{f|
case <f.ruleIndex>: return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">
  }
  return true;
 }
 <sempredFuncs.values; separator="\n">
<endif>

 <atn>
}
>>

vocabulary(literalNames, symbolicNames) ::= <<
private static readonly string[] _LiteralNames = {
 <literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
};
private static readonly string[] _SymbolicNames = {
 <symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
};
public static readonly IVocabulary DefaultVocabulary = new Vocabulary(_LiteralNames, _SymbolicNames);

[NotNull]
public override IVocabulary Vocabulary
{
 get
 {
  return DefaultVocabulary;
 }
}
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
public override void Action(RuleContext _localctx, int ruleIndex, int actionIndex) {
 switch (ruleIndex) {
 <recog.actionFuncs.values:{f|
```

```
case <f.ruleIndex>
 : <f.name>_action(<if(!recog.modes)>(<f.ctxType>)<endif>_localctx, actionIndex); break;}; separator="\n">
 }
}
<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
public override bool Sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
 switch (ruleIndex) {
 <recog.sempredFuncs.values:{f|
case <f.ruleIndex> : return <f.name>_sempred(<if(!recog.modes)>(<f.ctxType>)<endif>_localctx, predIndex);};
separator="\n">
 }
 return true;
}
<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(parser) ::= <<
public <csIdentifier.(parser.name)>(ITokenStream input)
 : base(input)
{
 Interpreter = new ParserATNSimulator(this,_ATN);
}
>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
private void <r.name>_action(<r.ctxType> _localctx, int actionIndex) {
 switch (actionIndex) {
 <actions:{index|
case <index>: <actions.(index)> break;};
 separator="\n">
 }
}
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
private bool <r.name>_sempred(<r.ctxType> _localctx, int predIndex) {
 switch (predIndex) {
 <actions:{index|
case <index>: return <actions.(index)>;}; separator="\n">
```

```
 }
 return true;
}
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

<if(ruleCtx)>
<ruleCtx>
<endif>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

[RuleVersion(<namedActions.version; null="0">)]
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public <endif><currentRule.ctxType>
<csIdentifier.(currentRule.name)>(<args; separator=", ">) {
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | ,
<csIdentifier.(a.name)>}>);
 EnterRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>);
 <namedActions.init>
 <locals;
 separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 }
 <if(exceptions)>
 <exceptions; separator="\n">
 <else>
 catch (RecognitionException re) {
  _localctx.exception = re;
  ErrorHandler.ReportError(this, re);
  ErrorHandler.Recover(this, re);
 }
 <endif>
 finally {
  <finallyAction>
  ExitRule();
 }
 return _localctx;
}
>>

LeftFactoredRuleFunction(currentRule,args,code,locals,namedActions,finallyAction,postamble) ::=
```

```
<<

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>private <endif><currentRule.ctxType>
<csIdentifier.(currentRule.name)>(<args; separator=", ">) {
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | ,
<csIdentifier.(a.name)>}>);
 EnterLeftFactoredRule(_localctx, <currentRule.startState>, RULE_<currentRule.variantOf>);
 <namedActions.init>
 <locals; separator="\n">
 try
 {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 }
 catch (RecognitionException re) {
  _localctx.exception = re;
  ErrorHandler.ReportError(this, re);
  ErrorHandler.Recover(this, re);
 }
 finally {
  <finallyAction>
  ExitRule();
 }
 return _localctx;
}
>>

// This behaves similar to RuleFunction (enterRule is called, and no adjustments
// are made to the parse tree), but since it's still a variant no context class
// needs to be generated.
LeftUnfactoredRuleFunction(currentRule,args,code,locals,namedActions,finallyAction,postamble) ::=
<<

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>private <endif><currentRule.ctxType>
<csIdentifier.(currentRule.name)>(<args; separator=", ">) {
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | ,
<csIdentifier.(a.name)>}>);
 EnterRule(_localctx, <currentRule.startState>, RULE_<currentRule.variantOf>);
 <namedActions.init>
 <locals;
 separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
```

```
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 }
 catch (RecognitionException re) {
  _localctx.exception = re;
  ErrorHandler.ReportError(this, re);
  ErrorHandler.Recover(this, re);
 }
 finally {
  <finallyAction>
  ExitRule();
 }
 return _localctx;
}
>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
 namedActions,finallyAction,postamble) ::=
<<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

[RuleVersion(<namedActions.version; null="0">)]
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public <endif><currentRule.ctxType>
<csIdentifier.(currentRule.name)>(<args; separator=", ">) {
 return <csIdentifier.(currentRule.name)>(0<currentRule.args:{a | , <csIdentifier.(a.name)>}>);
}

private <currentRule.ctxType> <csIdentifier.(currentRule.name)>(int _p<args:{a | , <a>}>) {
 ParserRuleContext _parentctx
 = Context;
 int _parentState = State;
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, _parentState<currentRule.args:{a | ,
<csIdentifier.(a.name)>}>);
 <currentRule.ctxType> _prevctx = _localctx;
 int _startState = <currentRule.startState>;
 EnterRecursionRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>, _p);
 <namedActions.init>
 <locals; separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
  <code>
  <postamble; separator="\n">
```

```
  <namedActions.after>
 }
 catch (RecognitionException re) {
  _localctx.exception = re;
  ErrorHandler.ReportError(this, re);
  ErrorHandler.Recover(this, re);
 }
 finally {
  <finallyAction>
  UnrollRecursionContexts(_parentctx);
 }
 return _localctx;
}
>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx = new <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(_localctx);<endif>
EnterOuterAlt(_localctx,
 <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
{
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
}
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
State = <choice.stateNumber>;
<!ErrorHandler.sync(this);!>
<if(choice.label)><labelref(choice.label)> = TokenStream.Lt(1);<endif>
<preamble; separator="\n">
switch (TokenStream.La(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
 <alt>
 break;}; separator="\n">
default:
 <error>
}
>>

LL1OptionalBlock(choice, alts, error) ::= <<
State = <choice.stateNumber>;
<!ErrorHandler.sync(this);!>
```

```
switch (TokenStream.La(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
 <alt>
 break;}; separator="\n">
default:
 <error>
}
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
State = <choice.stateNumber>;
<!ErrorHandler.sync(this);!>
<preamble;
 separator="\n">
if (<expr>) {
 <alts; separator="\n">
}
<!else if ( !(<followExpr>) ) <error>!>
>>

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<preamble; separator="\n">
while (<loopExpr>) {
 <alts; separator="\n">
 State = <choice.loopBackStateNumber>;
 ErrorHandler.Sync(this);
 <iteration>
}
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
State = <choice.blockStartStateNumber>;<! alt block decision !>
ErrorHandler.Sync(this);
<preamble; separator="\n">
do {
 <alts; separator="\n">
 State = <choice.stateNumber>;<! loopback/exit decision !>
 ErrorHandler.Sync(this);
 <iteration>
} while ( <loopExpr> );
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
State = <choice.stateNumber>;
```

```
<!ErrorHandler.sync(this);!>
<if(choice.label)><labelref(choice.label)> = TokenStream.Lt(1);<endif>
<preamble; separator="\n">
switch ( Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context)
 ) {
<alts:{alt |
case <i>:
 <alt>
 break;}; separator="\n">
}
>>

OptionalBlock(choice, alts, error) ::= <<
State = <choice.stateNumber>;
<!ErrorHandler.sync(this);!>
switch ( Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context) ) {
<alts:{alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n">
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
_alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
while ( _alt!=<choice.exitAlt> && _alt!=global::Antlr4.Runtime.Atn.ATN.InvalidAltNumber ) {
 if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {
  <iteration>
  <alts> <! should only be one !>
 }
 State = <choice.loopBackStateNumber>;
 ErrorHandler.Sync(this);
 _alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
}
>>

PlusBlock(choice, alts, error) ::= <<
State = <choice.blockStartStateNumber>;<! alt block decision
 !>
ErrorHandler.Sync(this);
_alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
 switch (_alt) {
 <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
```

```
 break;}; separator="\n">
 default:
  <error>
 }
 State = <choice.loopBackStateNumber>;<! loopback/exit decision !>
 ErrorHandler.Sync(this);
 _alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
} while ( _alt!=<choice.exitAlt> && _alt!=global::Antlr4.Runtime.Atn.ATN.InvalidAltNumber );
>>

Sync(s) ::= "Sync(<s.expecting.name>);"

ThrowNoViableAlt(t) ::= "throw new NoViableAltException(this);"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

// produces smaller bytecode only when bits.ttypes contains more
 than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((1L \<\< <offsetShift(s.varName, bits.shift)>) &
(<bits.ttypes:{ttype | (1L \<\< <offsetShift(tokenType.(ttype), bits.shift)>)}; separator=" | ">)) != 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShift(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName>==<tokenType.(ttype)>}; separator=" || ">
%>

cases(ttypes) ::= <<
<ttypes:{t | case <tokenType.(t)>:}; separator="\n">
>>
```

```
InvokeRule(r, argExprsChunks) ::= <<
State = <r.stateNumber>; <if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif><csIdentifier.(r.name)>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><arg
ExprsChunks>);
>>

MatchToken(m) ::= <<
State = <m.stateNumber>; <if(m.labels)><m.labels:{l
 | <labelref(l)> = }><endif>Match(<tokenType.(m.name)>);
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
State = <m.stateNumber>;
<if(m.labels)><m.labels:{l | <labelref(l)> = }>TokenStream.Lt(1);<endif>
<capture>
if ( <if(invert)><m.varName> \<= 0 || <else>!<endif>(<expr>) ) {
 <if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>ErrorHandler.RecoverInline(this);
}
else {
   Consume();
}
>>

Wildcard(w) ::= <<
State = <w.stateNumber>;
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>MatchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
State = <p.stateNumber>;
if (!(<chunks>)) throw new FailedPredicateException(this, <p.predicate><if(failChunks)>,
<failChunks><elseif(p.msg)>, <p.msg><endif>);
>>

ExceptionClause(e,
 catchArg, catchAction) ::= <<
catch (<catchArg>) {
```

```
 <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "Skip();"
LexerMoreCommand()  ::= "More();"
LexerPopModeCommand() ::= "PopMode();"

LexerTypeCommand(arg)      ::= "_type = <tokenType.(arg)>;"
LexerChannelCommand(arg)   ::= "_channel = <channelName.(arg)>;"
LexerModeCommand(arg)      ::= "_mode = <modeName.(arg)>;"
LexerPushModeCommand(arg)  ::= "PushMode(<modeName.(arg)>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<csIdentifier.(a.name)>"
LocalRef(a) ::= "_localctx.<csIdentifier.(a.name)>"
RetValueRef(a) ::= "_localctx.<csIdentifier.(a.name)>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<csIdentifier.(a.name)>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<csIdentifier.(tokenType.(t.name))>"
LabelRef(t) ::= "<ctx(t)>.<csIdentifier.(t.name)>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(csIdentifier.(t.name))>"
SetAttr(s,rhsChunks)
 ::= "<ctx(s)>.<csIdentifier.(s.name)> = <rhsChunks>;"

TokenLabelType() ::= "<file.TokenLabelType; null={IToken}>"
InputSymbolType() ::= "<file.InputSymbolType; null={IToken}>"

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Text:null)"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Type:0)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Line:0)"
TokenPropertyRef_pos(t) ::=
"(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.CharPositionInLine:0)"
TokenPropertyRef_channel(t) ::=
"(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Channel:0)"
TokenPropertyRef_index(t) ::=
"(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.TokenIndex:0)"
TokenPropertyRef_int(t) ::=
"(<ctx(t)>.<tokenType.(t.label)>!=null?int.Parse(<ctx(t)>.<tokenType.(t.label)>.Text):0)"

RulePropertyRef_start(r)
 ::= "(<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.Start):null)"
RulePropertyRef_stop(r)  ::= "(<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.Stop):null)"
RulePropertyRef_text(r)  ::=
"(<ctx(r)>.<r.label>!=null?TokenStream.GetText(<ctx(r)>.<r.label>.Start,<ctx(r)>.<r.label>.Stop):null)"
```

```
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "this"

ThisRulePropertyRef_start(r) ::= "_localctx.Start"
ThisRulePropertyRef_stop(r)  ::= "_localctx.Stop"
ThisRulePropertyRef_text(r)  ::= "TokenStream.GetText(_localctx.Start, TokenStream.Lt(-1))"
ThisRulePropertyRef_ctx(r)  ::= "_localctx"
ThisRulePropertyRef_parser(r)  ::= "this"

NonLocalAttrRef(s)   ::= <%((<s.ruleName;
format="cap">Context)GetInvokingContext(<s.ruleIndex>)).<csIdentifier.(s.name)>%>
SetNonLocalAttr(s, rhsChunks)   ::=
 <%((<s.ruleName; format="cap">Context)GetInvokingContext(<s.ruleIndex>)).<csIdentifier.(s.name)> =
<rhsChunks>;%>

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.Add(<labelref(a.label)>);"

TokenDecl(t)
 ::= "<TokenLabelType()> <csIdentifier.(tokenType.(t.name))>"
TokenTypeDecl(t) ::= "int <csIdentifier.(tokenType.(t.name))>;"
TokenListDecl(t) ::= "IList\<IToken> <csIdentifier.(tokenType.(t.name))> = new List\<IToken>()"
RuleContextDecl(r) ::= "<r.ctxName> <csIdentifier.(r.name)>"
RuleContextListDecl(rdecl) ::= "IList\<<rdecl.ctxName>> <csIdentifier.(rdecl.name)> = new
List\<<rdecl.ctxName>>()"

contextGetterCollection(elementType) ::= <%
<elementType>[]
%>

ContextTokenGetterDecl(t)      ::=
   "public ITerminalNode <csIdentifier.(tokenType.(t.name))>() { return
GetToken(<csIdentifier.(parser.name)>.<csIdentifier.(tokenType.(t.name))>, 0); }"
ContextTokenListGetterDecl(t)  ::= <<
public <contextGetterCollection("ITerminalNode")> <csIdentifier.(tokenType.(t.name))>() { return
GetTokens(<csIdentifier.(parser.name)>.<csIdentifier.(tokenType.(t.name))>); }
>>
ContextTokenListIndexedGetterDecl(t)  ::= <<
public ITerminalNode <csIdentifier.(tokenType.(t.name))>(int
 i) {
 return GetToken(<csIdentifier.(parser.name)>.<csIdentifier.(tokenType.(t.name))>, i);
}
>>
ContextRuleGetterDecl(r)       ::= <<
public <r.ctxName> <csIdentifier.(r.name)>() {
 return GetRuleContext\<<r.ctxName>\>(0);
}
>>
ContextRuleListGetterDecl(r)   ::= <<
```

```
public <contextGetterCollection({<r.ctxName>})> <csIdentifier.(r.name)>() {
 return GetRuleContexts\<<r.ctxName>\>();
}
>>
ContextRuleListIndexedGetterDecl(r)   ::= <<
public <r.ctxName> <csIdentifier.(r.name)>(int i) {
 return GetRuleContext\<<r.ctxName>\>(i);
}
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
* r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenType.(tokenName)>"
ImplicitRuleLabel(ruleName)   ::= "_<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)    ::= "_<label>"

CaptureNextToken(d) ::= "<d.varName> = TokenStream.Lt(1);"
CaptureNextTokenType(d) ::= "<d.varName>
 = TokenStream.La(1);"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,
        superClass={ParserRuleContext}) ::= <<
public partial class <struct.name> : <superClass><if(interfaces)>, <interfaces; separator=", "><endif> {
 <attrs:{a | public <a>;}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 <if(ctorAttrs)>public <struct.name>(ParserRuleContext parent, int invokingState) : base(parent, invokingState) {
}<endif>
 public <struct.name>(ParserRuleContext parent, int invokingState<ctorAttrs:{a | , <a>}>)
  : base(parent, invokingState)
 {
  <struct.ctorAttrs:{a | this.<csIdentifier.(a.name)> = <csIdentifier.(a.name)>;}; separator="\n">
 }
 public override int RuleIndex { get { return RULE_<struct.derivedFromName>; } }
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
 public <struct.name>() { }
 public virtual void CopyFrom(<struct.name> context) {
  base.CopyFrom(context);
  <struct.attrs:{a | this.<csIdentifier.(a.name)>
 = context.<csIdentifier.(a.name)>;}; separator="\n">
 }
<endif>
 <dispatchMethods; separator="\n">
```

```
 <extensionMembers; separator="\n">
}
>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
public partial class <struct.name> : <currentRule.name; format="cap">Context {
 <attrs:{a | public <a>;}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 public <struct.name>(<currentRule.name; format="cap">Context context) { CopyFrom(context); }
 <dispatchMethods; separator="\n">
}
>>

ListenerDispatchMethod(method) ::= <<
public override void <if(method.isEnter)>Enter<else>Exit<endif>Rule(IParseTreeListener listener) {
 I<parser.grammarName>Listener typedListener = listener as I<parser.grammarName>Listener;
 if (typedListener != null) typedListener.<if(method.isEnter)>Enter<else>Exit<endif><struct.derivedFromName;
format="cap">(this);
}
>>

VisitorDispatchMethod(method) ::= <<
public override TResult Accept\<TResult>(IParseTreeVisitor\<TResult> visitor) {
 I<parser.grammarName>Visitor\<TResult>
 typedVisitor = visitor as I<parser.grammarName>Visitor\<TResult>;
 if (typedVisitor != null) return typedVisitor.Visit<struct.derivedFromName; format="cap">(this);
 else return visitor.VisitChildren(this);
}
>>

AttributeDecl(d) ::= "<d.type> <csIdentifier.(d.name)><if(d.initValue)> = <d.initValue><endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)><typedContext(x.ctx)>.<endif><csIdentifier.(x.name)>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "<typedContext(actionChunk.ctx)>"

// only casts _localctx to the type when the cast isn't redundant (i.e. to a sub-context for a labeled alt)
typedContext(ctx) ::= "<if(ctx.provideCopyFrom)>((<ctx.name>)_localctx)<else>_localctx<endif>"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)  ::= "Precpred(Context, <opPrec>)"
recRuleSetReturnAction(src,name)   ::= "$<name>=$<src>.<name>;"
recRuleSetStopToken()
                ::= "Context.Stop = TokenStream.Lt(-1);"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
```

```
_localctx = new <ctxName>Context(_parentctx, _parentState);
<if(label)>
<if(isListLabel)>
_localctx.<label>.Add(_prevctx);
<else>
_localctx.<label> = _prevctx;
<endif>
<endif>
PushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
_localctx = new <currentAltLabel; format="cap">Context(new <ruleName; format="cap">Context(_parentctx,
_parentState));
<if(label)>
<if(isListLabel)>
((<currentAltLabel; format="cap">Context)_localctx).<label>.Add(_prevctx);
<else>
((<currentAltLabel; format="cap">Context)_localctx).<label> = _prevctx;
<endif>
<endif>
PushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName) ::= <<
_localctx = new <ctxName>Context(_localctx);
Context = _localctx;
_prevctx = _localctx;
>>

recRuleSetPrevCtx()
 ::= <<
if ( ParseListeners!=null )
 TriggerExitRuleEvent();
_prevctx = _localctx;
>>


LexerFile(file, lexer, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<namedActions.header>
using System;
using Antlr4.Runtime;
using Antlr4.Runtime.Atn;
using Antlr4.Runtime.Misc;
```

```
using DFA = Antlr4.Runtime.Dfa.DFA;

<lexer>
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <csIdentifier.(lexer.name)> : <superClass; null="Lexer"> {
 public const int
  <lexer.tokens:{k | <tokenType.(k)>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
 <if(lexer.channels)>
 public const int
  <lexer.channels:{k | <csIdentifier.(k)>=<lexer.channels.(k)>}; separator=", ", wrap, anchor>;
 <endif>
 <rest(lexer.modes):{m|
 public const int <modeName.(m)> = <i>;}; separator="\n">
 public static string[] modeNames = {
  <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor>
 };

 public static readonly string[] ruleNames = {
  <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
 };

 <namedActions.members>

 public <csIdentifier.(lexer.name)>(ICharStream input)
  : base(input)
 {
  Interpreter = new LexerATNSimulator(this,_ATN);
 }

 <vocabulary(lexer.literalNames, lexer.symbolicNames)>

 public override string GrammarFileName { get { return "<lexer.grammarFileName>"; } }

 public override string[] RuleNames { get { return ruleNames; } }

 public override string[] ModeNames { get { return modeNames; } }

 public override string SerializedAtn { get { return _serializedATN; } }

 <dumpActions(lexer, "", actionFuncs, sempredFuncs)>
 <atn>
```

```
}
>>


SerializedATN(model) ::= <<
public static readonly string _serializedATN =
 "<model.serialized; wrap={"+<\n><\t>"}>";
public static readonly ATN _ATN
 =
 new ATNDeserializer().Deserialize(_serializedATN.ToCharArray());
>>

initValue(typeName) ::= <<
default(<typeName>)
>>

codeFileExtension() ::= ".cs"

modeName ::= [
 "DEFAULT_MODE" : "DefaultMode",
 default : key
]

channelName ::= [
 "HIDDEN" : "Hidden",
 "DEFAULT_TOKEN_CHANNEL" : "DefaultTokenChannel",
 default : key
]

tokenType ::= [
 "EOF" : "Eof",
 default : key
]

csIdentifier ::= [
 "abstract" : "@abstract",
 "as" : "@as",
 "base" : "@base",
 "bool" : "@bool",
 "break" : "@break",
 "byte" : "@byte",
 "case" : "@case",
 "catch" : "@catch",
 "char" : "@char",
 "checked" : "@checked",
 "class" : "@class",
 "const" : "@const",
 "continue" : "@continue",
```

```
"decimal" : "@decimal",
"default" : "@default",
"delegate" : "@delegate",
"do" : "@do",
"double" : "@double",
"else" : "@else",
"enum" : "@enum",
"event" : "@event",
"explicit" : "@explicit",
"extern" : "@extern",
"false" : "@false",
"finally" : "@finally",
"fixed" : "@fixed",
"float" : "@float",
"for" : "@for",
"foreach"
: "@foreach",
"goto" : "@goto",
"if" : "@if",
"implicit" : "@implicit",
"in" : "@in",
"int" : "@int",
"interface" : "@interface",
"internal" : "@internal",
"is" : "@is",
"lock" : "@lock",
"long" : "@long",
"namespace" : "@namespace",
"new" : "@new",
"null" : "@null",
"object" : "@object",
"operator" : "@operator",
"out" : "@out",
"override" : "@override",
"params" : "@params",
"private" : "@private",
"protected" : "@protected",
"public" : "@public",
"readonly" : "@readonly",
"ref" : "@ref",
"return" : "@return",
"sbyte" : "@sbyte",
"sealed" : "@sealed",
"short" : "@short",
"sizeof" : "@sizeof",
"stackalloc" : "@stackalloc",
"static" : "@static",
"string" : "@string",
```

```
 "struct" : "@struct",
 "switch" : "@switch",
 "this" : "@this",
 "throw" : "@throw",
 "true" : "@true",
 "try" : "@try",
 "typeof" : "@typeof",
 "uint" : "@uint",
 "ulong" : "@ulong",
 "unchecked" : "@unchecked",
 "unsafe" : "@unsafe",
 "ushort" : "@ushort",
 "using" : "@using",
 "virtual"
 : "@virtual",
 "void" : "@void",
 "volatile" : "@volatile",
 "while" : "@while",
 default : key
]
```

Found in path(s):
* /opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/tool/templates/codegen/CSharp/CSharp.stg
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*/
/*
This file contains the actual layout of the messages emitted by ANTLR.
This file contains the default format ANTLR uses.
*/

location(file, line, column) ::= "<file>:<line>:<column>:"

message(id, text) ::= "(<id>) <text>"

report(location, message, type) ::= "<type>(<message.id>): <location> <message.text>"

wantsSingleLineMessage() ::= "false"

Found in path(s):
* /opt/cola/permits/157368048_1695310346.6091413/0/antlr4-4-5-1-sources-zip/antlr4-4.5.1-sources/org/antlr/v4/tool/templates/messages/formats/antlr.stg
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1.37 apache-aries-blueprint-api 1.0.1

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   size: 8.5in 11.0in;
   margin: 0.25in 0.5in 0.25in 0.5in;
   tab-interval: 0.5in;
   }
 p {
   margin-left: auto;
   margin-top:  0.5em;
   margin-bottom: 0.5em;
   }
 p.list {
  margin-left: 0.5in;
   margin-top:  0.05em;
   margin-bottom: 0.05em;
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```

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<body lang="EN-US">

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import java.io.IOException;
import java.io.InputStream;

/**
* Marker interface for OutputStreams that can directly support
* copying from an input stream.  OutputStreams
 that maintain their
* own byte buffer or similar may be able to optimize the copy
* instead of using the read/write into a temporary buffer that
* the normal IOUtils.copy method requires.
*/
public interface CopyingOutputStream {

   int copyFrom(InputStream in) throws IOException;
```

```
}

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*/
package org.apache.cxf.rs.security.oauth.data;

/**
* Base permission description which is visible to
* authorization handlers
* @see OAuthAuthorizationData
*/
public class Permission {
   private
 String permission;
   private String description;
   private boolean isDefault;

   public Permission() {

   }

   public Permission(String permission, String description) {
       this.description = description;
       this.permission = permission;
   }

   public String getDescription() {
```

```
        return description;
    }

    public void setDescription(String description) {
        this.description = description;
    }

    public String getPermission() {
        return permission;
    }

    public void setPermission(String permission) {
        this.permission = permission;
    }

    /**
     * Indicates that this permission has been allocated by default.
     * Authorization View handlers may use this property in order to restrict
     * the list of scopes which may be refused to non-default scopes only
     * @param isDefault
     */
    public void setDefault(boolean value) {
        this.isDefault = value;
    }

    public boolean isDefault()
   {
        return isDefault;
    }
}
/*
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<head>
<meta name="generator" content="HTML Tidy, see www.w3.org" />
<meta http-equiv="Content-Type"
content="text/html; charset=iso-8859-1" />
<link rel="stylesheet" type="text/css"
href="/StyleSheets/base.css" />
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*/
package org.apache.cxf.rs.security.oauth2.common;

import java.io.Serializable;

/**
* Base permission description
* @see OAuthAuthorizationData
*/
public class Permission implements Serializable
 {
   private static final long serialVersionUID = 8988574955042726083L;
   private String permission;
   private String description;
   private boolean isDefault;

   public Permission() {

   }

   public Permission(String permission, String description) {
       this.description = description;
       this.permission = permission;
   }

   /**
    * Gets the permission description
    * @return the description
    */
   public String getDescription() {
       return description;
   }

   /**
    * Sets the permission description
    * @param description
    */
   public void setDescription(String description) {
       this.description = description;
   }

   /**
    * Get the permission value such as "read_calendar"
    * @return the value
```

```
     */
    public String getPermission() {
        return permission;
    }

    /**
     * Sets the permission value such as "read_calendar"
     * @param permission the permission value
     */
    public
  void setPermission(String permission) {
        this.permission = permission;
    }

    /**
     * Indicates if this permission has been allocated by default or not.
     * Authorization View handlers may use this property in order to restrict
     * the list of scopes which may be refused to non-default scopes only.
     * For example, the read-only check-box controls can be used to represent
     * the default scopes
     * @param isDefault true if the permission has been allocated by default
     */
    public void setDefault(boolean value) {
        this.isDefault = value;
    }

    public boolean isDefault() {
        return isDefault;
    }
}
```

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* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/tree/xpath/XPathLexer.java
* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/misc/Triple.java
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/opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/tree/TerminalNodeImpl.java
* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/UnbufferedCharStream.java
* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/ParserRuleContext.java
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* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/atn/LexerActionExecutor.java
* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/atn/RuleStopState.java
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* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/atn/StarLoopEntryState.java
*
/opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/RecognitionException.java
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* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/tree/pattern/ParseTreeMatch.java
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* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/BaseErrorListener.java
* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-

jar/org/antlr/v4/runtime/misc/ObjectEqualityComparator.java
* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/atn/ArrayPredictionContext.java
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/opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/misc/TestRig.java
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* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/ANTLRErrorStrategy.java
* /opt/cola/permits/169822625_1695316177.9963315/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/atn/RuleStartState.java
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1.40 apr-util 1.6.1

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1.41 openssl 1.0.2k

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1.45 libyaml 0.1.7

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1.54 el-impl 2.2

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1.59 javax-ws-rs-api 2.1.1

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1.62 commons-collections 4.4

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1.63 latencyutils 2.0.3

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1.64 alpn-api 1.1.3.v20160715

1.65 kxml 2.3.0

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1.66 argparse 0.7.0

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Metadata-Version: 1.0
Name: argparse
Version: 0.7.0
Summary: An optparse-inspired command-line parsing library
Home-page: http://argparse.python-hosting.com/
Author: Steven Bethard
Author-email: steven.bethard@gmail.com

License: BSD
Description: Argparse takes the best of the optparse command-line parsing module
and brings it new life. Argparse adds positional as well as
optional arguments, the ability to create parsers for sub-commands,
more informative help and usage messages, and much more. At the
same time, it retains the ease and flexibility of use that made
optparse so popular.
Platform: UNKNOWN
Classifier: Development Status :: 3 - Alpha
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
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* /opt/cola/permits/1000038828_1646171452.21/0/argparse-0-7-0-zip/argparse-0.7.0/PKG-INFO

1.67 typetools 0.5.0

1.68 googleapis-common-protos 0.0.3

1.69 jarchivelib 0.7.1

1.70 paranamer 2.3

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1.71 trove4j 3.1a1

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* /opt/cola/permits/1000738096_1654022861.5281258/0/javax-websocket-api-1-0-sources-jar/javax/websocket/server/HandshakeRequest.java
* /opt/cola/permits/1000738096_1654022861.5281258/0/javax-websocket-api-1-0-sources-jar/javax/websocket/ClientEndpoint.java
* /opt/cola/permits/1000738096_1654022861.5281258/0/javax-websocket-api-1-0-sources-jar/javax/websocket/SendHandler.java
* /opt/cola/permits/1000738096_1654022861.5281258/0/javax-websocket-api-1-0-sources-jar/javax/websocket/server/ServerApplicationConfig.java
* /opt/cola/permits/1000738096_1654022861.5281258/0/javax-websocket-api-1-0-sources-jar/javax/websocket/server/DefaultServerEndpointConfig.java
*
/opt/cola/permits/1000738096_1654022861.5281258/0/javax-websocket-api-1-0-sources-jar/javax/websocket/HandshakeResponse.java
* /opt/cola/permits/1000738096_1654022861.5281258/0/javax-websocket-api-1-0-sources-jar/javax/websocket/Endpoint.java
* /opt/cola/permits/1000738096_1654022861.5281258/0/javax-websocket-api-1-0-sources-jar/javax/websocket/OnOpen.java
* /opt/cola/permits/1000738096_1654022861.5281258/0/javax-websocket-api-1-0-sources-jar/javax/websocket/package-info.java
* /opt/cola/permits/1000738096_1654022861.5281258/0/javax-websocket-api-1-0-sources-jar/javax/websocket/DecodeException.java
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*
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* /opt/cola/permits/1000738096_1654022861.5281258/0/javax-websocket-api-1-0-sources-jar/javax/websocket/OnMessage.java
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* /opt/cola/permits/1000738096_1654022861.5281258/0/javax-websocket-api-1-0-sources-jar/javax/websocket/ContainerProvider.java
* /opt/cola/permits/1000738096_1654022861.5281258/0/javax-websocket-api-1-0-sources-jar/javax/websocket/EndpointConfig.java

1.76 commons-pool 1.6

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1.79 asm 5.0.4

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*/
/**
  * Constructs a new {@link ClassNode}. Subclasses must not use this
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  * version.
  *
  * @throws IllegalStateException
  * If a subclass calls this constructor.
  */

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* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/util/Textifiable.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/util/ASMifiable.java
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```
* THE POSSIBILITY OF SUCH DAMAGE.
*/
/**
   * Creates a new JSRInliner. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the
   * {@link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
   * version.
   *
   * @param mv
   *
  the <code>MethodVisitor</code> to send the resulting inlined
   *          method code to (use <code>null</code> for none).
   * @param access
   *          the method's access flags (see {@link Opcodes}). This
   *          parameter also indicates if the method is synthetic and/or
   *          deprecated.
   * @param name
   *          the method's name.
   * @param desc
   *          the method's descriptor (see {@link Type}).
   * @param signature
   *          the method's signature. May be <tt>null</tt>.
   * @param exceptions
   *          the internal names of the method's exception classes (see
   *          {@link Type#getInternalName() getInternalName}). May be
   *          <tt>null</tt>.
   * @throws IllegalStateException
   *           If a subclass calls this constructor.
   */
```

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* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/util/TraceAnnotationVisitor.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/FrameNode.java
*
 /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/optimizer/ClassConstantsCollector.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/commons/TableSwitchGenerator.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/tree/FieldInsnNode.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/optimizer/FieldConstantsCollector.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/FieldWriter.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/commons/SimpleRemapper.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/Attribute.java
*
 /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/util/TraceMethodVisitor.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/tree/AnnotationNode.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/optimizer/ClassOptimizer.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-

jar/org/objectweb/asm/util/CheckSignatureAdapter.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/util/CheckClassAdapter.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/util/CheckFieldAdapter.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/FieldVisitor.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/VarInsnNode.java
*
/opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/LabelNode.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/tree/TryCatchBlockNode.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/commons/AdviceAdapter.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/tree/analysis/Value.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/tree/analysis/BasicValue.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/util/ASMifier.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/tree/analysis/BasicVerifier.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/tree/analysis/SmallSet.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
*
/opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/signature/SignatureWriter.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/commons/TryCatchBlockSorter.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/util/TraceFieldVisitor.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/tree/InvokeDynamicInsnNode.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/commons/RemappingClassAdapter.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/optimizer/Constant.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/AnnotationVisitor.java
*
/opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/tree/JumpInsnNode.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/commons/RemappingFieldAdapter.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/MethodVisitor.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-

jar/org/objectweb/asm/commons/Method.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/Frame.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/commons/StaticInitMerger.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/tree/TypeInsnNode.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/optimizer/AnnotationConstantsCollector.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/MethodNode.java
*
/opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/tree/ParameterNode.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/Type.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/util/TraceSignatureVisitor.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/tree/TypeAnnotationNode.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/tree/analysis/Subroutine.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/optimizer/NameMapping.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/Context.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/util/CheckMethodAdapter.java
*
/opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/ClassWriter.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/tree/analysis/SourceValue.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/Item.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/optimizer/ConstantPool.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/Handler.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/optimizer/MethodOptimizer.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/optimizer/JarOptimizer.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/signature/SignatureVisitor.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/Label.java
*
/opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/ByteVector.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/signature/SignatureReader.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/tree/InnerClassNode.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/Handle.java

* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/commons/RemappingMethodAdapter.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/IincInsnNode.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/Analyzer.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/util/TraceClassVisitor.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/MethodInsnNode.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/commons/RemappingAnnotationAdapter.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/FieldNode.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/AnnotationWriter.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/Interpreter.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/LocalVariableNode.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/InsnList.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/Frame.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/commons/Remapper.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/util/Printer.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/AbstractInsnNode.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/Shrinker.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/InsnNode.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/commons/InstructionAdapter.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/ClassVisitor.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/LineNumberNode.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/MethodWriter.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/LdcInsnNode.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/MethodConstantsCollector.java

* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/commons/LocalVariablesSorter.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/ClassReader.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/Edge.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/Opcodes.java

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*/
/**
   * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
   * not use this constructor</i>. Instead, they must use the
   * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
   * version.
   *

   * @param typeRef
   *          a reference to the annotated type. See {@link TypeReference}.
   * @param typePath
   *          the path to the annotated type argument, wildcard bound, array
   *          element type, or static inner type within 'typeRef'. May be
   *          <tt>null</tt> if the annotation targets 'typeRef' as a whole.
   * @param start
   *          the fist instructions corresponding to the continuous ranges
   *          that make the scope of this local variable (inclusive).
   * @param end
   *          the last instructions corresponding to the continuous ranges
   *          that make the scope of this local variable (exclusive). This
   *          array must have the same size as the 'start' array.
   * @param index
   *          the local variable's index in each range. This array must have
```

```
   *          the same size as the 'start' array.
   * @param desc
   *          the class descriptor of
 the annotation class.
   */
```

Found in path(s):
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java
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```
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* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/xml/SAXFieldAdapter.java
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/xml/ASMContentHandler.java

*
/opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/xml/SAXClassAdapter.java
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* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/xml/SAXAdapter.java
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/**
    * Creates a new {@link AnalyzerAdapter}. <i>Subclasses must not use this
    * constructor</i>. Instead, they must use the
    * {@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
    * version.
    *
    * @param owner
    *
```

```
    the owner's class name.
  * @param access
  *          the method's access flags (see {@link Opcodes}).
  * @param name
  *          the method's name.
  * @param desc
  *          the method's descriptor (see {@link Type Type}).
  * @param mv
  *          the method visitor to which this adapter delegates calls. May
  *          be <tt>null</tt>.
  * @throws IllegalStateException
  *           If a subclass calls this constructor.
  */
```

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* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/commons/AnalyzerAdapter.java
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```

```
*/
/**
    * Constructs a new {@link Textifier}. <i>Subclasses must not use this
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    * version.
    *
    * @throws IllegalStateException
    *           If a subclass calls this constructor.
     */
```

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* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/shrink-resize.properties
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/shrink.properties
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/shrink-signatures.properties
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* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/shrink-annotations.properties
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/**
   * Creates a new {@link GeneratorAdapter}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the
   * {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
   * version.
   *
   * @param mv
   *          the
 method visitor to which this adapter delegates calls.
   * @param access
   *          the method's access flags (see {@link Opcodes}).
   * @param name
   *          the method's name.
   * @param desc
   *          the method's descriptor (see {@link Type Type}).
   * @throws IllegalStateException
   *           If a subclass calls this constructor.
   */
```

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* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/commons/GeneratorAdapter.java

1.80 servlet-api 2.4

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* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-jar/com/google/j2objc/annotations/RetainedLocalRef.java
* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-jar/com/google/j2objc/annotations/Property.java
* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-jar/com/google/j2objc/annotations/LoopTranslation.java
* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-jar/com/google/j2objc/annotations/J2ObjCIncompatible.java
* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-jar/com/google/j2objc/annotations/ObjectiveCName.java

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* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-jar/com/google/j2objc/annotations/AutoreleasePool.java
* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-jar/com/google/j2objc/annotations/WeakOuter.java

1.88 jline 2.14.6

1.89 net-tools 2.10

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1.90 ehcache 2.6.5

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* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/hibernate/management/impl/BaseEmitterBean.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/hibernate/ccs/AbstractEhcacheConcurrencyStrategy.java
*
/opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/pool/impl/FromLargestCacheOnDiskPoolEvictor.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/management/sampled/SampledCacheManagerMBean.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/management/provider/MBeanRegistrationProviderFactoryImpl.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/transaction/manager/selector/BitronixSelector.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/hibernate/HibernateUtil.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/constructs/nonstop/store/NonstopTimeoutBehaviorStoreResolver.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/bootstrap/BootstrapCacheLoader.java
*
/opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/statistics/LiveCacheStatisticsData.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/hibernate/SingletonEhCacheRegionFactory.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/store/disk/ods/AATreeSet.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/transaction/xa/processor/XARequest.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/event/CacheManagerEventListenerRegistry.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/ObjectExistsException.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/config/generator/model/elements/TimeoutBehaviorConfigurationElement.java

*
/opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/store/AbstractStore.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/distribution/CachePeer.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/search/expression/ILike.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/pool/Size.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/distribution/RMIBootstrapCacheLoaderFactory.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/util/counter/sampled/SampledCounterConfig.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/writer/AbstractCacheWriter.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/config/InvalidConfigurationException.java
*
/opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/writer/writethrough/WriteThroughManager.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/hibernate/strategy/EhcacheAccessStrategyFactoryImpl.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/util/counter/Counter.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/transaction/DelegatingTransactionIDFactory.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/util/WeakIdentityConcurrentMap.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/config/generator/model/elements/SearchableConfigurationElement.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/pool/PoolableStore.java
*
/opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/pool/sizeof/JvmInformation.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/search/aggregator/Min.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/search/impl/AggregateOnlyResult.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/Disposable.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/util/counter/CounterManagerImpl.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/constructs/nonstop/TaskNotSubmittedTimeoutException.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/cluster/ClusterSchemeNotAvailableException.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/util/LongSequence.java
*

/opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/transaction/ReadCommittedSoftLockImpl.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/hibernate/strategy/TransactionalEhcacheEntityRegionAccessStrategy.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/store/MemoryLimitedCacheLoader.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/event/NotificationScope.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/store/StoreListener.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/constructs/nonstop/store/NonstopStoreImpl.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/management/ManagementServer.java
*
/opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/config/generator/model/elements/ManagementRESTServiceConfigurationElement.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/writer/writebehind/WriteBehindManager.java
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*/
/**
   * Returns a list of all element keys in the cache, whether or not they are expired.
   * <p/>
   * The returned keys are unique and can almost be considered a set. See {@link net.sf.ehcache.store.CacheKeySet
CacheKeySet} for
   * more details.
   * <p/>
   * The List returned is not live. It is a copy.
    * <p/>
   * The time taken is O(n). On a single CPU 1.8Ghz P4, approximately 8ms is required
   * for each 1000 entries.
   *
   * @return a list of {@link Object} keys
   * @throws IllegalStateException if the cache is not {@link Status#STATUS_ALIVE}
   * @see net.sf.ehcache.store.CacheKeySet
   */
```

Found in path(s):
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/Cache.java

1.91 jsr311-api 1.0

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Found in path(s):
* /opt/cola/permits/1001160891_1606875610.06/0/kryo-4-0-1-sources-jar/com/esotericsoftware/kryo/util/IdentityMap.java
* /opt/cola/permits/1001160891_1606875610.06/0/kryo-4-0-1-sources-jar/com/esotericsoftware/kryo/util/IntMap.java

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1.100 cglib-nodep 2.1_3

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1.101 kryo-parent 4.0.2

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* /opt/cola/permits/1001689035_1607385153.08/0/kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/serializers/FieldSerializerUnsafeUtil.java
* /opt/cola/permits/1001689035_1607385153.08/0/kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/StreamFactory.java
* /opt/cola/permits/1001689035_1607385153.08/0/kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/serializers/VersionFieldSerializer.java
* /opt/cola/permits/1001689035_1607385153.08/0/kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/NotNull.java
* /opt/cola/permits/1001689035_1607385153.08/0/kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/serializers/DefaultArraySerializers.java
* /opt/cola/permits/1001689035_1607385153.08/0/kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/serializers/DeflateSerializer.java
*
/opt/cola/permits/1001689035_1607385153.08/0/kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/factories/ReflectionSerializerFactory.java
* /opt/cola/permits/1001689035_1607385153.08/0/kryo-4-0-2-sources-

jar/com/esotericsoftware/kryo/io/UnsafeMemoryOutput.java
* /opt/cola/permits/1001689035_1607385153.08/0/kryo-4-0-2-sources-
jar/com/esotericsoftware/kryo/Registration.java
* /opt/cola/permits/1001689035_1607385153.08/0/kryo-4-0-2-sources-
jar/com/esotericsoftware/kryo/KryoException.java
* /opt/cola/permits/1001689035_1607385153.08/0/kryo-4-0-2-sources-
jar/com/esotericsoftware/kryo/DefaultSerializer.java
* /opt/cola/permits/1001689035_1607385153.08/0/kryo-4-0-2-sources-
jar/com/esotericsoftware/kryo/serializers/MapSerializer.java
* /opt/cola/permits/1001689035_1607385153.08/0/kryo-4-0-2-sources-
jar/com/esotericsoftware/kryo/serializers/DefaultSerializers.java
* /opt/cola/permits/1001689035_1607385153.08/0/kryo-4-0-2-sources-
jar/com/esotericsoftware/kryo/util/MapReferenceResolver.java
*
/opt/cola/permits/1001689035_1607385153.08/0/kryo-4-0-2-sources-
jar/com/esotericsoftware/kryo/io/UnsafeInput.java
* /opt/cola/permits/1001689035_1607385153.08/0/kryo-4-0-2-sources-
jar/com/esotericsoftware/kryo/io/KryoObjectOutput.java
* /opt/cola/permits/1001689035_1607385153.08/0/kryo-4-0-2-sources-
jar/com/esotericsoftware/kryo/serializers/FieldSerializerUnsafeUtilImpl.java
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* /opt/cola/permits/1001689035_1607385153.08/0/kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/serializers/FieldSerializerConfig.java
* /opt/cola/permits/1001689035_1607385153.08/0/kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/serializers/OptionalSerializers.java
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*
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*
* @author Roman Levenstein <romixlev@gmail.com> */

Found in path(s):
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1.102 kryo 4.0.2

1.103 javaip 0.17

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1.105 adduser 3.118

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* /opt/cola/permits/1003166478_1606874650.11/0/jopt-simple-6-0-alpha-3-sources-1-jar/joptsimple/OptionDescriptor.java
* /opt/cola/permits/1003166478_1606874650.11/0/jopt-simple-6-0-alpha-3-sources-1-jar/joptsimple/NoArgumentOptionSpec.java
* /opt/cola/permits/1003166478_1606874650.11/0/jopt-simple-6-0-alpha-3-sources-1-jar/joptsimple/ParserRules.java
* /opt/cola/permits/1003166478_1606874650.11/0/jopt-simple-6-0-alpha-3-sources-1-jar/joptsimple/OptionSpecBuilder.java
* /opt/cola/permits/1003166478_1606874650.11/0/jopt-simple-6-0-alpha-3-sources-1-jar/joptsimple/internal/Messages.java
* /opt/cola/permits/1003166478_1606874650.11/0/jopt-simple-6-0-alpha-3-sources-1-jar/joptsimple/RequiredArgumentOptionSpec.java
* /opt/cola/permits/1003166478_1606874650.11/0/jopt-simple-6-0-alpha-3-sources-1-jar/joptsimple/internal/Classes.java
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* /opt/cola/permits/1003166478_1606874650.11/0/jopt-simple-6-0-alpha-3-sources-1-jar/joptsimple/IllegalOptionSpecificationException.java

* /opt/cola/permits/1003166478_1606874650.11/0/jopt-simple-6-0-alpha-3-sources-1-jar/joptsimple/MissingRequiredOptionsException.java
* /opt/cola/permits/1003166478_1606874650.11/0/jopt-simple-6-0-alpha-3-sources-1-jar/joptsimple/AbstractOptionSpec.java
* /opt/cola/permits/1003166478_1606874650.11/0/jopt-simple-6-0-alpha-3-sources-1-jar/joptsimple/ArgumentList.java
* /opt/cola/permits/1003166478_1606874650.11/0/jopt-simple-6-0-alpha-3-sources-1-jar/joptsimple/internal/Reflection.java
* /opt/cola/permits/1003166478_1606874650.11/0/jopt-simple-6-0-alpha-3-sources-1-jar/joptsimple/OptionArgumentConversionException.java
* /opt/cola/permits/1003166478_1606874650.11/0/jopt-simple-6-0-alpha-3-sources-1-jar/joptsimple/internal/Row.java
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* /opt/cola/permits/1003166478_1606874650.11/0/jopt-simple-6-0-alpha-3-sources-1-jar/joptsimple/internal/SimpleOptionNameMap.java
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* /opt/cola/permits/1003166478_1606874650.11/0/jopt-simple-6-0-alpha-3-sources-1-jar/joptsimple/internal/OptionNameMap.java
* /opt/cola/permits/1003166478_1606874650.11/0/jopt-simple-6-0-alpha-3-sources-1-jar/joptsimple/OptionParser.java
* /opt/cola/permits/1003166478_1606874650.11/0/jopt-simple-6-0-alpha-3-sources-1-jar/joptsimple/ValueConversionException.java
* /opt/cola/permits/1003166478_1606874650.11/0/jopt-simple-6-0-alpha-3-sources-1-jar/joptsimple/NonOptionArgumentSpec.java
* /opt/cola/permits/1003166478_1606874650.11/0/jopt-simple-6-0-alpha-3-sources-1-jar/joptsimple/HelpFormatter.java
* /opt/cola/permits/1003166478_1606874650.11/0/jopt-simple-6-0-alpha-3-sources-1-jar/joptsimple/util/RegexMatcher.java
* /opt/cola/permits/1003166478_1606874650.11/0/jopt-simple-6-0-alpha-3-sources-1-jar/joptsimple/UnavailableOptionException.java
* /opt/cola/permits/1003166478_1606874650.11/0/jopt-simple-6-0-alpha-3-sources-1-jar/joptsimple/UnrecognizedOptionException.java
* /opt/cola/permits/1003166478_1606874650.11/0/jopt-simple-6-0-alpha-3-sources-1-jar/joptsimple/UnconfiguredOptionException.java
* /opt/cola/permits/1003166478_1606874650.11/0/jopt-simple-6-0-alpha-3-sources-1-jar/joptsimple/OptionParserState.java
* /opt/cola/permits/1003166478_1606874650.11/0/jopt-simple-6-0-alpha-3-sources-1-jar/joptsimple/OptionalArgumentOptionSpec.java
* /opt/cola/permits/1003166478_1606874650.11/0/jopt-simple-6-0-alpha-3-sources-1-

jar/joptsimple/MultipleArgumentsForOptionException.java
* /opt/cola/permits/1003166478_1606874650.11/0/jopt-simple-6-0-alpha-3-sources-1-jar/joptsimple/OptionSet.java
* /opt/cola/permits/1003166478_1606874650.11/0/jopt-simple-6-0-alpha-3-sources-1-jar/joptsimple/OptionSpec.java
* /opt/cola/permits/1003166478_1606874650.11/0/jopt-simple-6-0-alpha-3-sources-1-jar/joptsimple/internal/ConstructorInvokingValueConverter.java
* /opt/cola/permits/1003166478_1606874650.11/0/jopt-simple-6-0-alpha-3-sources-1-jar/joptsimple/internal/MethodInvokingValueConverter.java

1.107 oscache 2.1.1

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                    OSCache : License
                                    </span>
       </div>
       <div class="pagesubheading">
        This page last changed on Jan 30, 2005 by <font color="#0050B2">lars t</font>.
       </div>

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  <tr>
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   </tr>
     <tr>
      <td align="center"><font color="grey">Document generated by Confluence on Apr 30, 2005 22:37</font></td>
     </tr>
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   </body>
</html>
```


1.108 javax-activation 1.1

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1.109 kryo-parent 4.0.1

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```

```
func initGpl2() {
 Licenses["gpl2"] = License{
  Name:          "GNU General Public License 2.0",
  PossibleMatches: []string{"gpl2", "gnu gpl2", "gplv2"},
  Header: `
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 Licenses["bsd"] = License{
  Name:           "NewBSD",
  PossibleMatches: []string{"bsd", "newbsd", "3 clause bsd", "3-clause bsd"},
  Header: `All rights reserved.

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`,
 }
}

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 Licenses["gpl3"] = License{
  Name:           "GNU General Public License 3.0",
  PossibleMatches: []string{"gpl3", "gplv3", "gpl", "gnu gpl3", "gnu gpl"},
  Header: `
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package cmd

func initApache2() {
 Licenses["apache"] = License{
  Name:            "Apache 2.0",
  PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},
  Header: `
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`,
 }
}
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func initMit() {
 Licenses["mit"] = License{
  Name:           "MIT License",
  PossibleMatches: []string{"mit"},
  Header: `
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of this software and associated documentation files (the "Software"), to deal
```

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without limitation the rights
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`,
}
}
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func initBsdClause2() {
 Licenses["freebsd"] = License{
  Name: "Simplified BSD License",
  PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd",
   "2 clause bsd", "simplified bsd license"},
  Header: `All rights reserved.

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OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
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`,
}
}

1.118 mitchellh-mapstructure 1.1.2

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1.119 jwalterweatherman 1.0.0

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1.120 kingpin 2.2.6

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1.121 ghodss-yaml 1.0.0

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1.122 hashicorp-logutils 1.0.0

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1.123 cast 1.3.0

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1.125 javax-interceptor-api 1.2.2

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* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/AggregateEventHandler.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/EventFactory.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/SequenceReportingEventHandler.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/SleepingWaitStrategy.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/ExceptionHandler.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/EventProcessor.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/SequenceBarrier.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/BusySpinWaitStrategy.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/EventTranslatorTwoArg.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/IgnoreExceptionHandler.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/NoOpEventProcessor.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/BatchEventProcessor.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/dsl/ExceptionHandlerSetting.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/WorkerPool.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/util/DaemonThreadFactory.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/LiteBlockingWaitStrategy.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/dsl/EventProcessorInfo.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/PhasedBackoffWaitStrategy.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/SingleProducerSequencer.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/AbstractSequencer.java
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* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/ProcessingSequenceBarrier.java
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/opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/dsl/EventHandlerGroup.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/AlertException.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/SequenceGroup.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/EventTranslatorVararg.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/YieldingWaitStrategy.java
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* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/EventHandler.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/util/Util.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/EventTranslator.java
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* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/dsl/Disruptor.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/FatalExceptionHandler.java
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* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/EventReleaseAware.java
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* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/Cursored.java
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* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/SequenceGroups.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/DataProvider.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-

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* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/Sequencer.java

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* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/metadata/CascadableDescriptor.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/ConstraintTarget.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/metadata/GroupConversionDescriptor.java
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* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/constraintvalidation/ValidationTarget.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-

jar/javax/validation/constraintvalidation/package-info.java
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/opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/spi/BootstrapState.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/Payload.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/ConstraintDefinitionException.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/spi/ValidationProvider.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/ValidationException.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/constraints/Null.java
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* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-

jar/javax/validation/groups/Default.java
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* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/constraints/Min.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/UnexpectedTypeException.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/bootstrap/GenericBootstrap.java
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 /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/constraints/Pattern.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/ConstraintValidator.java
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* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/constraints/NotNull.java
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* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/metadata/ReturnValueDescriptor.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/executable/ExecutableValidator.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/ElementKind.java
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1.133 jzlib 1.0.7

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1.134 apr 1.7.0

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1.135 jakarta-json 1.1.6

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1.136 apache-felix-webconsole-plugins-event 1.1.8

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1.142 apache-aries-jmx-core 1.1.8

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1.147 pkg-sftp 1.10.1

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1.149 plexus-interpolation 1.26

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1.150 feign-form-spring 3.8.0

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1.151 jackson 1.9.13

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1.152 zlib 1.2.3-7.el5

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1.153 log4net 2.3.0

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1.154 capnslog 0.0.0-20180928190104-399ea9e2e55f

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1.155 types-istanbul-lib-report 3.0.0

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1.156 babel-plugin-syntax-nullish-coalescing-operator 7.8.3

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1.157 babel-plugin-syntax-optional-chaining 7.8.3

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1.159 flowrate 0.0.0-20140419014527-cca7078d478f

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* /opt/ws_local/PERMITS_SQL/1023201257_1591382095.57/0/reflection-0-9-12-sources-jar/com/nu/art/reflection/classLoader/JarClassLoader.java
*
/opt/ws_local/PERMITS_SQL/1023201257_1591382095.57/0/reflection-0-9-12-sources-jar/com/nu/art/reflection/exceptions/ClassInstantiationException.java
* /opt/ws_local/PERMITS_SQL/1023201257_1591382095.57/0/reflection-0-9-12-sources-jar/com/nu/art/reflection/classLoader/ClassLoaderManager.java
* /opt/ws_local/PERMITS_SQL/1023201257_1591382095.57/0/reflection-0-9-12-sources-jar/com/nu/art/reflection/tools/ReflectiveTools.java
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* /opt/ws_local/PERMITS_SQL/1023201257_1591382095.57/0/reflection-0-9-12-sources-jar/com/nu/art/reflection/tools/BidirectionalAction.java
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* /opt/ws_local/PERMITS_SQL/1023201257_1591382095.57/0/reflection-0-9-12-sources-jar/com/nu/art/reflection/extractor/Extractor.java

1.164 lsb 11.1.0

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1.165 hostname 3.23

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1.166 apache-felix-http-whiteboard 4.0.0

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1.174 go-radix 1.0.0

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1.175 java-nats-streaming 2.2.3

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1.176 opencensus 0.24.0

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1.182 properties 1.8.1

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goproperties - properties file decoder for Go

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1.183 ksoap 2.3.0

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1.184 commons-lang3 2.4

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1.185 go-grpc-prometheus 1.2.0

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1.186 coreos-semver 0.2.0

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1.187 go-grpc-prometheus 1.2.1-0.20191002090509-6af20e3a5340

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1.188 quartz 2.3.2

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1.189 x-net 0.38.0

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1.190 godotenv 1.3.0

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1.191 memkv 0.1.1

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1.192 c3p0 0.9.5.4

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1.193 nuid 1.0.1

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/ElementQNameIterator.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/ElementIterator.java
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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/CDATA.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/Document.java
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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/FlyweightCDATA.java
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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/jaxb/JAXBModifier.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/FilterIterator.java

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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/DefaultAttribute.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/OutputFormat.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/datatype/NamedTypeResolver.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/SingleIterator.java
*
/opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/dom/DOMAttribute.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/rule/RuleManager.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/DefaultElement.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/datatype/InvalidSchemaException.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/xpath/DefaultNamespaceContext.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/datatype/DatatypeElement.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/DocumentSource.java
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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/DOMSAXContentHandler.java
*
/opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/dom/DOMElement.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/JAXPHelper.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/rule/RuleSet.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/Branch.java
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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/DefaultNamespace.java
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1.200 jetty-alpn-client 9.4.28.v20200408

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
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* java.sun.security.ssl

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
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org.eclipse.jetty.toolchain:jetty-schemas

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org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
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module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with

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http://openjdk.java.net/legal/gplv2+ce.html

OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.203 jetty-client 9.4.28.v20200408

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The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

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* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
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org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
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org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
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module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with

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http://openjdk.java.net/legal/gplv2+ce.html

OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

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* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
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module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper
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1.208 javax-websocket-client-impl 9.4.28.v20200408

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
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module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

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terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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following Apache Tomcat jars, all ASL2
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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

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artifacts may be included in the distribution or downloaded when ALPN
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* java.sun.security.ssl

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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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org.ow2.asm:asm-commons
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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.211 jetty-util 9.4.28.v20200408

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
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org.apache.tomcat:tomcat-juli
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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
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http://openjdk.java.net/legal/gplv2+ce.html

OW2

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terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.213 jetty-continuation 9.4.28.v20200408

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2
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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.214 jetty-rewrite 9.4.28.v20200408

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* javax.websocket:javax.websocket-api

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If ALPN is used to negotiate HTTP/2 connections, then the following
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* java.sun.security.ssl

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org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
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module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
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http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the
terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2
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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
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module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the
terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.219 http2-server 9.4.28.v20200408

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The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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* javax.annotation:javax.annotation-api
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* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
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module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
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1.221 jetty-deploy 9.4.28.v20200408

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
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module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
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http://openjdk.java.net/legal/gplv2+ce.html

OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.224 jetty-jndi 9.4.28.v20200408

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

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* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
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module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
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The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2
 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with

classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.227 depth 1.2.1

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1.228 bluebird 3.7.2

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1.229 w3c-hr-time 1.0.2

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1.230 keyutils 1.6.1-2

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1.231 shadow 4.8.1-1

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1.236 go-humanize 0.0.0-20171111073723-bb3d318650d4

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1.237 hashicorp-serf 0.8.5

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////

[#mpl]
MPL Support, <boost/mp11/mpl.hpp>
:toc:
:toc-title:
:idprefix:

The header `<boost/mp11/mpl.hpp>`, when included, defines the
necessary support infrastructure for `mp_list` and `std::tuple`
to be valid link:../../../../libs/mpl[MPL] sequences.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.

It's also possible to only enable support for `mp_list` by
including `<boost/mp11/mpl_list.hpp>`, and for `std::tuple`
by including `<boost/mp11/mpl_tuple.hpp>`. This may be required
because some libraries, such as Boost.Fusion, contain their own MPL
support for `std::tuple`, which conflicts with Mp11's one.
<!DOCTYPE html>
<html>
 <head></head>
 <body>
  <h3>
   Copyright Test
  </h3>

   1963, 1964, 1965 Jane Doe

   2018 Joe Blow, John Coe

   1977, 1985 Someone else

 </body>
</html>
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"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xi="http://www.w3.org/2001/XInclude">
 <title>Copyright Test</title>
 <articleinfo>
   <copyright>
     <year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
   </copyright>
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     <year>2018</year> <holder>Joe Blow, John Coe</holder>
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1.239 deepmerge 4.2.2

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1.240 xtrans 1.4.0-1

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1.241 unboundid-ldap-sdk 4.0.9

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but ensures that the communication cannot be imperceptibly altered by a man in the middle attack), and 'auth-conf' (for confidentiality protection for communication, which encrypts the communication so that it cannot be deciphered by a third-party observer). If no value is specified, then a default of 'auth' will be assumed. If any of multiple qualities of protection will be considered acceptable then the permissible QoP values may be separated by commas and listed in order from most desirable to least desirable. INFO_SASL_DIGEST_MD5_OPTION_QOP("The quality of protection that should be used for any communication that occurs after the authentication has completed. Allowed values are 'auth' (for just authentication with no communication protection), 'auth-int' (for integrity protection for communication, which does not encrypt but ensures that the communication cannot be imperceptibly altered by a man in the middle attack), and 'auth-conf' (for confidentiality protection for communication,
which encrypts the communication so that it cannot be deciphered by a third-party observer). If no value is specified, then a default of 'auth' will be assumed. If any of multiple qualities of protection will be considered acceptable then the permissible QoP values may be separated by commas and listed in order from most desirable to least desirable."), * The quality of protection that should be used for any communication that occurs after the authentication has completed. Allowed values are 'auth' (for just authentication with no communication protection), 'auth-int' (for integrity protection for communication, which does not encrypt but ensures that the communication cannot be imperceptibly altered by a man in the middle attack), and 'auth-conf' (for confidentiality protection for communication, which encrypts the communication so that it cannot be deciphered by a third-party observer). If no value is specified, then a default of 'auth' will be assumed. If any of multiple
qualities of protection will be considered acceptable then the permissible QoP values may be separated by commas and listed in order from most desirable to least desirable. INFO_SASL_GSSAPI_OPTION_QOP("The quality of protection that should be used for any communication that occurs after the authentication has completed. Allowed values are 'auth' (for just authentication with no communication protection), 'auth-int' (for integrity protection for communication, which does not encrypt but ensures that the communication cannot be imperceptibly altered by a man in the middle attack), and 'auth-conf' (for confidentiality protection for communication, which encrypts the communication so that it cannot be deciphered by a third-party observer). If no value is specified, then a default of 'auth' will be assumed. If any of multiple qualities of protection will be considered acceptable then the permissible QoP values may be separated by commas and listed in order from most desirable to least
desirable.'),'
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"--{0}", "--{1}", and "--{2}" arguments may be used to configure the settings to use for the assured replication control, but the server will automatically determine an appropriate value for any argument that is not provided. INFO_LDAPMODIFY_ARG_DESCRIPTION_ASSURED_REPLICATION("Indicates that all operation requests should include the UnboundID-proprietary 'assured replication' request control to indicate that the server should delay returning a response to the client until a minimum amount of replication processing has been performed for the operation. The "--{0}", "--{1}", and "--{2}" arguments may be used to configure the settings to use for the assured replication control, but the server will automatically determine an appropriate value for any argument that is not provided."), * Indicates that all bind requests should include the UnboundID-proprietary 'get authorization entry' request control to request that the server return the specified attribute (or collection of
attributes, in the case of a special identifier like '*' to indicate all user attributes or '+' to indicate all operational attributes) from the authenticated user's entry. This argument may be provided multiple times to specify multiple attributes to request. INFO_LDAPMODIFY_ARG_DESCRIPTION_GET_AUTHZ_ENTRY_ATTR("Indicates that all bind requests should include the UnboundID-proprietary 'get authorization entry' request control to request that

the server return the specified attribute (or collection of attributes, in the case of a special identifier like '*' to indicate all user attributes or '+' to indicate all operational attributes) from the authenticated user's entry. This argument may be provided multiple times to specify multiple attributes to request."), * Indicates that all bind requests should include the UnboundID-proprietary 'get user resource limits' request control to request that the server return information about resource limits (e.g., size limit, time limit, idle time limit, etc.) imposed for the user.
INFO_LDAPMODIFY_ARG_DESCRIPTION_GET_USER_RESOURCE_LIMITS("Indicates that all bind requests should include the UnboundID-proprietary 'get user resource limits' request control to request that the server return information about resource limits (e.g., size limit, time limit, idle time limit, etc.) imposed for the user."), * Indicates that all delete requests should include the UnboundID-proprietary 'hard delete' request control, which will permanently delete the target entry even if the server would have otherwise performed a soft delete operation to hide the entry for a period of time before deleting it.
INFO_LDAPMODIFY_ARG_DESCRIPTION_HARD_DELETE("Indicates that all delete requests should include the UnboundID-proprietary 'hard delete' request control, which will permanently delete the target entry even if the server would have otherwise performed a soft delete operation to hide the entry for a period of time before deleting it."), * Indicates that all add requests should include the UnboundID-proprietary 'ignore NO-USER-MODIFICATION' request control to permit setting values for certain operational attributes not normally permitted to be provided by external clients.
INFO_LDAPMODIFY_ARG_DESCRIPTION_IGNORE_NO_USER_MOD("Indicates that all add requests should include the UnboundID-proprietary 'ignore NO-USER-MODIFICATION' request control to permit setting values for certain operational attributes not normally permitted to be provided by external clients."), * Include the UnboundID-proprietary 'name with entryUUID' request control in all add requests sent to the server to indicate that the server should use the entryUUID operational attribute as the naming attribute for the resulting entry instead of the provided RDN. INFO_LDAPMODIFY_ARG_DESCRIPTION_NAME_WITH_ENTRY_UUID("Include the UnboundID-proprietary 'name with entryUUID' request control in all add requests sent to the server to indicate that the server should use the entryUUID operational attribute as the naming attribute for the resulting entry instead of the provided RDN."), * Indicates that all operations should include the UnboundID-proprietary 'operation purpose' request control to provide the specified reason for the operation. INFO_LDAPMODIFY_ARG_DESCRIPTION_OPERATION_PURPOSE("Indicates that all operations should include the UnboundID-proprietary 'operation purpose' request control to provide the specified reason for the operation."), * Indicates that all add and modify requests that target either the "{0}" or "{1}" attribute should include the UnboundID-proprietary 'password validation details' request control to indicate that the response should include information about the password quality requirements that the server will impose for the target user's password and whether the provided password satisfies each of those constraints.
INFO_LDAPMODIFY_ARG_DESCRIPTION_PASSWORD_VALIDATION_DETAILS("Indicates that all add and modify requests that target either the "{0}" or "{1}" attribute should include the UnboundID-proprietary 'password validation details' request control to indicate that the response should include information about the password quality requirements that the server will impose for the target user's password and whether the provided password satisfies each of those constraints."), * Indicates that any modify operation that targets either the "{0}" or "{1}" attribute should include the UnboundID-proprietary 'purge current password' request control. This will indicate that the server should could purge the current password from the entry (even if it would have otherwise been retired for a brief period of time).
INFO_LDAPMODIFY_ARG_DESCRIPTION_PURGE_CURRENT_PASSWORD("Indicates that any modify operation that targets either the "{0}" or "{1}" attribute should include the UnboundID-proprietary 'purge current password' request control. This will indicate that the server should could purge the current password from the entry (even if it would have otherwise been retired for a brief period of time)."), * Indicates that all operation requests should include the UnboundID-proprietary 'replication repair' request control. This will cause the change to be applied only to the target directory server instance but not to any other server in the replication

topology. INFO_LDAPMODIFY_ARG_DESCRIPTION_REPLICATION_REPAIR("Indicates that all operation requests should include the UnboundID-proprietary 'replication repair' request control. This will cause the change to be applied only to the target directory server instance but not to any other server in the replication topology."), * Indicates that any modify operation that targets either the "{0}" or "{1}" attribute should include the UnboundID-proprietary 'retire current password' request control. This will indicate that the server should continue to allow the user to authenticate with their current password (in addition to the new password) for
a brief period of time.
INFO_LDAPMODIFY_ARG_DESCRIPTION_RETIRE_CURRENT_PASSWORD("Indicates that any modify operation that targets either the "{0}" or "{1}" attribute should include the UnboundID-proprietary 'retire current password' request control. This will indicate that the server should continue to allow the user to authenticate with their current password (in addition to the new password) for a brief period of time."), * Indicates that all delete requests should include the UnboundID-proprietary 'soft delete' request control, which indicates that the server should hide the entry for a period of time before deleting it so that it may be restored with an undelete operation if the delete should be reverted. INFO_LDAPMODIFY_ARG_DESCRIPTION_SOFT_DELETE("Indicates that all delete requests should include the UnboundID-proprietary 'soft delete' request control, which indicates that the server should hide the entry for a period of time before deleting it so that it may be restored with
an undelete operation if the delete should be reverted."), * Indicates that all operations should include the UnboundID-proprietary 'suppress operational attribute updates' request control to indicate that the server should not apply any updates to the specified operational attributes. The value may be one of 'last-access-time', 'last-login-time', 'last-login-ip', or 'lastmod'.
INFO_LDAPMODIFY_ARG_DESCRIPTION_SUPPRESS_OP_ATTR_UPDATES("Indicates that all operations should include the UnboundID-proprietary 'suppress operational attribute updates' request control to indicate that the server should not apply any updates to the specified operational attributes. The value may be one of 'last-access-time', 'last-login-time', 'last-login-ip', or 'lastmod'."), * Indicates that the tool should include the UnboundID-proprietary 'suppress referential integrity updates' request control in all delete and modify DN operations to indicate that the server should not perform any referential integrity
processing for those operations.
INFO_LDAPMODIFY_ARG_DESCRIPTION_SUPPRESS_REFERINT_UPDATES("Indicates that the tool should include the UnboundID-proprietary 'suppress referential integrity updates' request control in all delete and modify DN operations to indicate that the server should not perform any referential integrity processing for those operations."), * Indicates that all search requests should include the UnboundID-proprietary account usable request control to request that each search result entry returned include a response control with information about the password policy usability state for the entry.
INFO_LDAPSEARCH_ARG_DESCRIPTION_ACCOUNT_USABLE("Indicates that all search requests should include the UnboundID-proprietary account usable request control to request that each search result entry returned include a response control with information about the password policy usability state for the entry."), * Indicates that all search requests should include the UnboundID-proprietary
'exclude branch' request control to indicate that matching entries below the specified base DN should be excluded from search results. This argument may be provided multiple times if multiple branches should be excluded.
INFO_LDAPSEARCH_ARG_DESCRIPTION_EXCLUDE_BRANCH("Indicates that all search requests should include the UnboundID-proprietary 'exclude branch' request control to indicate that matching entries below the specified base DN should be excluded from search results. This argument may be provided multiple times if multiple branches should be excluded."), * Indicates that all bind requests should include the UnboundID-proprietary 'get authorization entry' request control to request that the server return the specified attribute (or collection of attributes, in the case of a special identifier like '*' to indicate all user attributes or '+' to indicate all operational attributes) from the authenticated user's entry. This argument may be provided multiple times to
specify multiple attributes to request.
INFO_LDAPSEARCH_ARG_DESCRIPTION_GET_AUTHZ_ENTRY_ATTR("Indicates that all bind requests

should include the UnboundID-proprietary 'get authorization entry' request control to request that the server return the specified attribute (or collection of attributes, in the case of a special identifier like '*' to indicate all user attributes or '+' to indicate all operational attributes) from the authenticated user's entry. This argument may be provided multiple times to specify multiple attributes to request."), * Indicates that all search requests should include the UnboundID-proprietary 'get effective rights' request control to return information about the access control rights that a user has when interacting with each matching entry. This argument may be provided multiple times to specify multiple attributes. INFO_LDAPSEARCH_ARG_DESCRIPTION_GET_EFFECTIVE_RIGHTS_ATTR("Indicates that all search requests should include the UnboundID-proprietary 'get effective
rights' request control to return information about the access control rights that a user has when interacting with each matching entry. This argument may be provided multiple times to specify multiple attributes."), * Indicates that all search requests should include the UnboundID-proprietary 'get effective rights' request control to return information about the access control rights the specified user has when interacting with each matching entry. INFO_LDAPSEARCH_ARG_DESCRIPTION_GET_EFFECTIVE_RIGHTS_AUTHZID("Indicates that all search requests should include the UnboundID-proprietary 'get effective rights' request control to return information about the access control rights the specified user has when interacting with each matching entry."), * Indicates that all bind requests should include the UnboundID-proprietary 'get user resource limits' request control to request that the server return information about resource limits (e.g., size limit, time limit, idle time limit,
etc.) imposed for the user.
INFO_LDAPSEARCH_ARG_DESCRIPTION_GET_USER_RESOURCE_LIMITS("Indicates that all bind requests should include the UnboundID-proprietary 'get user resource limits' request control to request that the server return information about resource limits (e.g., size limit, time limit, idle time limit, etc.) imposed for the user."), * Indicates that all search requests should include the UnboundID-proprietary 'return conflict entries request control' to indicate that the server may return any replication conflict entries that match the search criteria. Replication conflict entries are normally excluded from search results.
INFO_LDAPSEARCH_ARG_DESCRIPTION_INCLUDE_REPL_CONFLICTS("Indicates that all search requests should include the UnboundID-proprietary 'return conflict entries request control' to indicate that the server may return any replication conflict entries that match the search criteria. Replication conflict entries are normally excluded from search results."),
* Indicates that all search requests should include the UnboundID-proprietary 'soft-deleted entry access' request control to indicate that the server may return any soft-deleted entries that match the search criteria. Soft-deleted entries are normally excluded from search results. The value for this argument must be one of: 'with-non-deleted-entries' (indicates that both regular and soft-deleted entries should be returned), 'without-non-deleted-entries' (indicates that only soft-deleted entries should be returned), or 'deleted-entries-in-undeleted-form' (returns only soft-deleted entries in the form in the form the entry had before it was deleted).
INFO_LDAPSEARCH_ARG_DESCRIPTION_INCLUDE_SOFT_DELETED("Indicates that all search requests should include the UnboundID-proprietary 'soft-deleted entry access' request control to indicate that the server may return any soft-deleted entries that match the search criteria. Soft-deleted entries are normally excluded from search results. The
value for this argument must be one of: 'with-non-deleted-entries' (indicates that both regular and soft-deleted entries should be returned), 'without-non-deleted-entries' (indicates that only soft-deleted entries should be returned), or 'deleted-entries-in-undeleted-form' (returns only soft-deleted entries in the form in the form the entry had before it was deleted)."), * Indicates that all search requests should include the UnboundID-proprietary 'matching entry count' request control, which indicates that the server should return information about the number of entries that match the search criteria. The maximum number of entries to examine must be specified, which helps indicate whether an exact count or an estimate will be returned. If alwaysExamine is specified and the number of candidates is less than the examine count, then each candidate will be examined to verify that it matches the criteria and would actually be returned to the client in a search. If allowUnindexed is specified,

then the count will be allowed to be processed even if the search is unindexed (and may take a very long time to complete). If debug is specified, then additional debug information may be included in the output. INFO_LDAPSEARCH_ARG_DESCRIPTION_MATCHING_ENTRY_COUNT_CONTROL("Indicates that all search requests should include the UnboundID-proprietary 'matching entry count' request control, which indicates that the server should return information about the number of entries that match the search criteria. The maximum number of entries to examine must be specified, which helps indicate whether an exact count or an estimate will be returned. If alwaysExamine is specified and the number of candidates is less than the examine count, then each candidate will be examined to verify that it matches the criteria and would actually be returned to the client in a search. If allowUnindexed is specified, then the count will be allowed to be processed even if the search is unindexed (and

may take a very long time to complete). If debug is specified, then additional debug information may be included in the output."), * Indicates that all search requests should include the UnboundID-proprietary 'operation purpose' request control to provide the specified reason for the operation. INFO_LDAPSEARCH_ARG_DESCRIPTION_OPERATION_PURPOSE("Indicates that all search requests should include the UnboundID-proprietary 'operation purpose' request control to provide the specified reason for the operation."), * Indicates that all search requests should include the UnboundID-proprietary permit unindexed search request control to indicate that the server should process the search operation even if it cannot do so efficiently using server indexes. The requester must have either the unindexed-search or unindexed-search-with-control privilege. INFO_LDAPSEARCH_ARG_DESCRIPTION_PERMIT_UNINDEXED_SEARCH("Indicates that all search requests should include the UnboundID-proprietary permit unindexed

search request control to indicate that the server should process the search operation even if it cannot do so efficiently using server indexes. The requester must have either the unindexed-search or unindexed-search-with-control privilege."), * Indicates that all search requests should include the UnboundID-proprietary 'real attributes only' request control to indicate that the server should not include any virtual attributes in entries that are returned. INFO_LDAPSEARCH_ARG_DESCRIPTION_REAL_ATTRS_ONLY("Indicates that all search requests should include the UnboundID-proprietary 'real attributes only' request control to indicate that the server should not include any virtual attributes in entries that are returned."), * Indicates that all search requests should include the UnboundID-proprietary reject unindexed search request control to indicate that the server should not process the search operation if it cannot do so efficiently using server indexes, even if the requester has the unindexed-search

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1.242 pb 1.0.28

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1.243 osgi-service-obr 1.0.2

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1.249 x-kit 0.0.0

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1.250 spring-security-jwt 1.0.11.RELEASE

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1.251 swagger-annotations 2.1.2

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1.252 swagger-models 2.1.2

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1.253 alice 1.2.0

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* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/dynamic/scaffold/FieldRegistry.java
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* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/dynamic/scaffold/subclass/package-info.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bind/ParameterLengthResolver.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bytecode/assign/InstanceCheck.java
*
/opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/pool/TypePool.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/dynamic/loading/package-info.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/utility/JavaConstant.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/BooleanMatcher.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/description/DeclaredByType.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/MethodExceptionTypeMatcher.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/agent/builder/AgentBuilder.java
*
/opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/description/modifier/ModifierContributor.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/utility/JavaType.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/utility/CompoundList.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bytecode/assign/primitive/package-info.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-

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* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bind/annotation/package-info.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/PrimitiveTypeMatcher.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bytecode/assign/reference/package-info.java
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/opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/dynamic/DynamicType.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bind/annotation/RuntimeType.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/utility/privilege/SetAccessibleAction.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/attribute/TypeAttributeAppender.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/dynamic/scaffold/inline/RedefinitionDynamicTypeBuilder.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/dynamic/loading/MultipleParentClassLoader.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/description/ByteCodeElement.java
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/opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/utility/visitor/StackAwareMethodVisitor.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/dynamic/scaffold/package-info.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/dynamic/scaffold/subclass/SubclassDynamicTypeBuilder.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bind/ArgumentTypeResolver.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/description/method/MethodList.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bytecode/member/FieldAccess.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/LoadedTypeInitializer.java
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* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bind/MethodNameEqualityResolver.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/TypeCache.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/DefinedShapeMatcher.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/ElementMatcher.java

* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/asm/TypeConstantAdjustment.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/dynamic/scaffold/TypeValidation.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/ArrayTypeMatcher.java
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* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/asm/Advice.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/dynamic/loading/ByteArrayClassLoader.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bytecode/member/MethodVariableAccess.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/build/CachedReturnPlugin.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/NameMatcher.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bind/annotation/Default.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/StringMatcher.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/description/modifier/Ownership.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bytecode/collection/CollectionFactory.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/description/method/package-info.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bytecode/collection/package-info.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/MethodSortMatcher.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/dynamic/scaffold/MethodGraph.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bind/annotation/TargetMethodAnnotationDrivenBinder.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/agent/builder/LambdaFactory.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bind/annotation/Morph.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/dynamic/loading/PackageDefinitionStrategy.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bind/annotation/Super.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-

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* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/asm/ModifierAdjustment.java
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* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/auxiliary/package-info.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/MethodDelegation.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/dynamic/scaffold/inline/RebaseImplementationTarget.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/TypeSortMatcher.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bytecode/package-info.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bind/annotation/Origin.java
*
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* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bytecode/constant/IntegerConstant.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/dynamic/scaffold/inline/package-info.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/dynamic/package-info.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/description/annotation/AnnotationDescription.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/FailSafeMatcher.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/dynamic/scaffold/inline/DecoratingDynamicTypeBuilder.java
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* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/description/type/TypeDescription.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/MethodParametersMatcher.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bytecode/constant/FieldConstant.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/ErasureMatcher.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bytecode/Addition.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/asm/MemberRemoval.java

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/opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/auxiliary/TypeProxy.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bind/annotation/AllArguments.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/agent/builder/ResettableClassFileTransformer.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/ByteBuddy.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/utility/JavaModule.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/CollectionElementMatcher.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/build/EntryPoint.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bytecode/constant/TextConstant.java
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* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/description/modifier/EnumerationState.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/DescriptorMatcher.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/FieldTypeMatcher.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/description/method/ParameterList.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bytecode/TypeCreation.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/DeclaringTypeMatcher.java
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* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/attribute/AnnotationAppender.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/FilterableList.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/attribute/package-info.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/description/type/TypeVariableToken.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/package-info.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/StubMethod.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-

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* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bytecode/Throw.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/description/annotation/package-info.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/dynamic/scaffold/TypeWriter.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/dynamic/scaffold/MethodRegistry.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bytecode/constant/DefaultValue.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/MethodParameterTypeMatcher.java
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* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/ClassFileVersion.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/description/package-info.java
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* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bytecode/StackManipulation.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/dynamic/scaffold/FieldLocator.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bind/DeclaringTypeResolver.java
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* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/EqualityMatcher.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/ClassLoaderHierarchyMatcher.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/attribute/AnnotationValueFilter.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/pool/package-info.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bytecode/assign/reference/ReferenceTypeAwareAssigner.java
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* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bind/annotation/FieldProxy.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bind/annotation/This.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/description/modifier/MethodArguments.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/MethodReturnTypeMatcher.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bytecode/constant/SerializedConstant.java
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*
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* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/description/modifier/package-info.java
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* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/InstanceTypeMatcher.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/description/modifier/ProvisioningState.java
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* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/IsNamedMatcher.java
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* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/DeclaringFieldMatcher.java
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1.256 pcre 8.39-13

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1.257 libgpg-error 1.38-2

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1.264 jackson-mapper-asl 1.9.13

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* /opt/ws_local/PERMITS_SQL/1078286973_1597285663.32/0/jackson-mapper-asl-1-9-13-sources-2-jar/org/codehaus/jackson/map/MappingJsonFactory.java

1.265 @rollup/pluginutils 3.1.0

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1.266 lodash.debounce 4.0.8

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1.267 go-md2man 2.0.0

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1.268 springfoxswagger 3.0.0

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* /opt/ws_local/PERMITS_SQL/1082517914_1597960315.48/0/springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/mappers/BasicAuthFactory.java
* /opt/ws_local/PERMITS_SQL/1082517914_1597960315.48/0/springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/mappers/ExamplesMapper.java
* /opt/ws_local/PERMITS_SQL/1082517914_1597960315.48/0/springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/mappers/OAuth2AuthFactory.java
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* /opt/ws_local/PERMITS_SQL/1082517914_1597960315.48/0/springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/web/Swagger2ControllerWebFlux.java
* /opt/ws_local/PERMITS_SQL/1082517914_1597960315.48/0/springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/web/Swagger2ControllerWebMvc.java
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* /opt/ws_local/PERMITS_SQL/1082517914_1597960315.48/0/springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/mappers/SerializableParameterFactories.java
* /opt/ws_local/PERMITS_SQL/1082517914_1597960315.48/0/springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/mappers/EnumMapper.java
* /opt/ws_local/PERMITS_SQL/1082517914_1597960315.48/0/springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/mappers/ApiKeyAuthFactory.java
* /opt/ws_local/PERMITS_SQL/1082517914_1597960315.48/0/springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/configuration/Swagger2JacksonModule.java
* /opt/ws_local/PERMITS_SQL/1082517914_1597960315.48/0/springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/mappers/ParameterMapper.java
* /opt/ws_local/PERMITS_SQL/1082517914_1597960315.48/0/springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/mappers/VendorExtensionsMapper.java
* /opt/ws_local/PERMITS_SQL/1082517914_1597960315.48/0/springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/mappers/ServiceModelToSwagger2Mapper.java
* /opt/ws_local/PERMITS_SQL/1082517914_1597960315.48/0/springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/mappers/ModelMapper.java
* /opt/ws_local/PERMITS_SQL/1082517914_1597960315.48/0/springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/mappers/SecurityMapper.java
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* /opt/ws_local/PERMITS_SQL/1082517914_1597960315.48/0/springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/annotations/EnableSwagger2.java
* /opt/ws_local/PERMITS_SQL/1082517914_1597960315.48/0/springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/mappers/SerializableParameterFactory.java
* /opt/ws_local/PERMITS_SQL/1082517914_1597960315.48/0/springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/annotations/EnableSwagger2WebMvc.java
* /opt/ws_local/PERMITS_SQL/1082517914_1597960315.48/0/springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/mappers/LicenseMapper.java
* /opt/ws_local/PERMITS_SQL/1082517914_1597960315.48/0/springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/mappers/SecuritySchemeFactory.java

1.269 springfox-swagger-ui 3.0.0

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/readers/operation/OperationSummaryReader.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/readers/operation/OperationNotesReader.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/readers/operation/OperationHttpMethodReader.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/annotations/Annotations.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/readers/operation/SwaggerOperationModelsProvider.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/readers/operation/OpenApiOperationTagsReader.java
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* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/readers/operation/SwaggerOperationTagsReader.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/readers/operation/OperationPositionReader.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-

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* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/web/OperationsSorter.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/web/ModelRendering.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/web/UiConfigurationBuilder.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/web/DocExpansion.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/web/TagsSorter.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/web/SecurityConfigurationBuilder.java
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* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/web/SecurityConfiguration.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/web/SwaggerResource.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/common/XForwardPrefixPathAdjuster.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/readers/parameter/Examples.java
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* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/schema/ApiModelProperties.java
*

/opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/readers/operation/OpenApiResponseReader.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/web/InMemorySwaggerResourcesProvider.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/schema/ApiModelTypeNameProvider.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/readers/operation/ResponseHeaders.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/readers/parameter/ApiParamParameterBuilder.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/readers/parameter/SwaggerExpandedParameterBuilder.java
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/opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/web/ApiResourceController.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/readers/operation/OpenApiOperationAuthReader.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/web/SwaggerApiListingReader.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/schema/ApiModelPropertyPropertyBuilder.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/readers/operation/OperationImplicitParametersReader.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/readers/operation/SwaggerOperationResponseClassReader.java
*
/opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/readers/operation/SwaggerResponseMessageReader.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/common/HostNameProvider.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/readers/operation/OperationAuthReader.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/readers/parameter/OpenApiParameterBuilder.java
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* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/schema/ApiModelBuilder.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/web/SwaggerResourcesProvider.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/configuration/SwaggerCommonConfiguration.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/web/ApiKeyVehicle.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/common/SwaggerPluginSupport.java

1.271 springfox-core 3.0.0

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* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/RequestHandler.java
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* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/SecurityScheme.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/Parameter.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/OAuth.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/ApiKey.java
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* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/Documentation.java
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 /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/ResourceGroup.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/schema/Enums.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/SecurityReference.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/builders/OperationBuilder.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/Tag.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/builders/ResourceListingBuilder.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/ApiListing.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/schema/WildcardType.java
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 /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/ObjectVendorExtension.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/Operation.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/builders/ApiListingBuilder.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/ResolvedMethodParameter.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/builders/ModelPropertyBuilder.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/ApiDescription.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/builders/BuilderDefaults.java
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* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/builders/ModelBuilder.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/builders/RequestParameterMerger.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/builders/DocumentationBuilder.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/Tags.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/schema/ModelProperty.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/builders/ApiInfoBuilder.java
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* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/builders/ParameterBuilder.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/builders/ParameterMerger.java
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* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-

jar/springfox/documentation/builders/AlternateTypePropertyBuilder.java
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* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/Server.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/DocumentationReference.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/ServerVariable.java
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* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/Header.java
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* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/schema/ModelReference.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/LoginEndpoint.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/builders/LoginEndpointBuilder.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/Contact.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/StringVendorExtension.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/annotations/Cacheable.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/builders/AuthorizationCodeGrantBuilder.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/ApiInfo.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/OperationNameGenerator.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/ApiListingReference.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/AllowableValues.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/annotations/ApiIgnore.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/builders/AuthorizationScopeBuilder.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/schema/AlternateTypeRule.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/builders/TokenRequestEndpointBuilder.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/ImplicitGrant.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-

jar/springfox/documentation/builders/OAuthBuilder.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/builders/PathSelectors.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/schema/Xml.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/VendorExtension.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/ClientCredentialsGrant.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/spring/wrapper/NameValueExpression.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/GrantType.java
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/opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/annotations/Incubating.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/schema/AlternateTypeRules.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/TokenEndpoint.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/AuthorizationCodeGrant.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/PathProvider.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/AuthorizationScope.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/spring/wrapper/RequestMappingInfo.java
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/opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/ResourceListing.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/CredentialsGrant.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/AllowableRangeValues.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/builders/TokenEndpointBuilder.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/AllowableListValues.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/builders/ImplicitGrantBuilder.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/ResourceOwnerPasswordCredentialsGrant.java
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/opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/schema/Entry.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/TokenRequestEndpoint.java

* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/spring/wrapper/PatternsRequestCondition.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/ResponseMessage.java
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* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/ListVendorExtension.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/common/SpringVersionCapability.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/common/ClassNotPresentInClassPathCondition.java
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* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/plugins/JacksonSerializerConvention.java
* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/readers/parameter/ParameterTypeDeterminer.java
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* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/readers/operation/HandlerMethodResolver.java

* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/readers/parameter/ParameterNameReader.java
*
/opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/scanners/ApiListingReferenceScanner.java
* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/plugins/DuplicateGroupsDetector.java
* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/DescriptionResolver.java
* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/readers/parameter/ModelAttributeField.java
* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/readers/operation/ApiOperationReader.java
* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/scanners/ApiModelReader.java
*
/opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/plugins/Docket.java
* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/readers/operation/OperationResponseClassReader.java
* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/readers/parameter/ExpandedParameterBuilder.java
* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/readers/operation/OperationParameterReader.java
* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/readers/operation/CachingOperationNameGenerator.java
* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/scanners/ApiListingScanner.java
*
/opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/readers/parameter/ParameterRequiredReader.java
* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/scanners/ApiDescriptionReader.java
* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/ControllerNamingUtils.java
* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/paths/Paths.java
* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/plugins/DocumentationPluginsBootstrapper.java
* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/scanners/ApiDocumentationScanner.java
*
/opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/paths/QueryStringUriTemplateDecorator.java
* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/plugins/DocumentationPluginsManager.java

1.273 springfox-spi 3.0.0

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* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/ParameterMetadataAccessor.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/schema/SyntheticModelProviderPlugin.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/RequestHandlerCombiner.java
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* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/schema/ViewProviderPlugin.java
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* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/SecurityContextBuilder.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/OperationContext.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/ResponseContext.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/DocumentationContextBuilder.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/PathContext.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/schema/AlternateTypeProvider.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/schema/contexts/ModelContext.java

* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/OperationModelContextsBuilder.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/DocumentationContext.java
*
 /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/Defaults.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/RequestMappingContext.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/ParameterExpansionContext.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/ParameterContext.java
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* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/ExpandedParameterBuilderPlugin.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/RequestHandlerProvider.java
*
 /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/ParameterBuilderPlugin.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/OperationBuilderPlugin.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/DefaultsProviderPlugin.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/DocumentationPlugin.java

* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/schema/ModelPropertyBuilderPlugin.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/ApiListingContext.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/OperationModelsProviderPlugin.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/schema/contexts/ModelPropertyContext.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/ApiListingBuilderPlugin.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/service/PathAdjuster.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/ApiSelector.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/service/PathDecorator.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/schema/GenericTypeNamingStrategy.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/schema/ModelBuilderPlugin.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/SecurityContext.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/schema/TypeNameProviderPlugin.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/DocumentationType.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/schema/EnumTypeDeterminer.java

1.274 springfox-schema 3.0.0

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* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/CachingModelPropertiesProvider.java
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 /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/bean/Accessors.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/ModelReferenceProvider.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/bean/BeanModelProperty.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/ResolvedTypes.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/bean/AccessorsProvider.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/FactoryMethodProvider.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/field/FieldProvider.java
*
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* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/DefaultModelSpecificationProvider.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/DefaultModelProvider.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/DefaultModelDependencyProvider.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/OptimizedModelPropertiesProvider.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/TypeNameExtractor.java
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 /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/CachingModelProvider.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/CachingModelDependencyProvider.java

* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/ObjectMapperBeanPropertyNamingStrategy.java
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* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/ModelProvider.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/Maps.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/CodeGenGenericTypeNamingStrategy.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/Collections.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/PojoPropertyBuilderFactory.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/DefaultTypeNameProvider.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/BeanPropertyDefinitions.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/field/FieldModelProperty.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/configuration/ObjectMapperConfigured.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/ModelSpecificationProvider.java

* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/bean/ParameterModelProperty.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/ModelProperty.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/BeanPropertyNamingStrategy.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/plugins/SchemaPluginsManager.java
*
 /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/DefaultGenericTypeNamingStrategy.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/configuration/ModelsConfiguration.java
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* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/plugins/XmlModelPlugin.java
*
 /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/plugins/PropertyDiscriminatorBasedInheritancePlugin.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/XmlPropertyPlugin.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/plugins/JacksonXmlModelPlugin.java

* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/plugins/JsonIgnorePropertiesModelPlugin.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/JacksonXmlPropertyPlugin.java
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* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/JacksonEnumTypeDeterminer.java

1.275 go-playground-locales 0.12.1

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1.276 sse 0.1.0

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1.277 fs-minipass 2.1.0

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1.278 krb5-conf 1.0-r2

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lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
"src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
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lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c

lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation,
including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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1.279 tre 0.8.0

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1.280 commons-io 2.7

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1.281 protobuf 1.3.2

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1.282 apache-felix-webconsole-plugins-memoryusage 1.0.10

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1.290 ops4j-base-util-collections 1.5.1

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1.294 ops4j-base-lang 1.5.1

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1.296 bcpkix-fips 1.0.3

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```
/**
 * Base constructor.
 * <p>
 * The authorizer attempts to perform matching (including the use of the wildcard) in accordance with RFC 6125.
 * </p>
 * <p>
 * Known suffixes is a list of public domain suffixes that can't be used as wild cards for
```

```
 * example *.com, or c*c.com, as a dns wildcard could match every/most .com domains if a registrar were issue it.
 * If *.com is in the known suffixes list will not be allowed to match.
 * </p>
 *
 * @param knownSuffixes a set of suffixes that cannot be wild-carded, e.g. { ".com", ".net", ".org" }
 */
```

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1093422976_1600923322.73/0/bcpkix-fips-1-0-3-sources-1-jar/org/bouncycastle/est/jcajce/JsseDefaultHostnameAuthorizer.java

1.297 hdrhistogram 2.1.12

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```
* public domain, as explained at http://creativecommons.org/publicdomain/zero/1.0/
<name>Public Domain, per Creative Commons CC0</name>
```

Found in path(s):
* /opt/cola/permits/1097979485_1602212177.99/0/hdrhistogram-2-1-12-1-jar/META-INF/maven/org.hdrhistogram/HdrHistogram/pom.xml
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```
Manifest-Version: 1.0
Bnd-LastModified: 1575980548657
Build-Jdk: 1.8.0_232
Built-By: gil
Bundle-Description: HdrHistogram supports the recording and analyzing sa
mpled data value        counts across a configurable integer value rang
e with configurable value        precision within the range. Value prec
ision is expressed as the number of        significant digits in the va
lue recording, and provides control over value        quantization beha
vior across the value range and the subsequent value        resolution
at any given level.
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Bundle-ManifestVersion: 2
Bundle-Name: HdrHistogram
Bundle-SymbolicName: org.hdrhistogram.HdrHistogram
Bundle-Version: 2.1.12
Created-By: Apache Maven Bundle Plugin
Export-Package: org.HdrHistogram;version="2.1.12",org.HdrHistogram.packe
darray;version="2.1.12"
Implementation-Title:
 HdrHistogram
Implementation-Vendor-Id: org.hdrhistogram
```

Implementation-Version: 2.1.12
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Specification-Title: HdrHistogram
Specification-Version: 2.1.12
Tool: Bnd-2.3.0.201405100607

Found in path(s):
* /opt/cola/permits/1097979485_1602212177.99/0/hdrhistogram-2-1-12-1-jar/META-INF/MANIFEST.MF

1.298 commons-lang3 3.1

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1.299 commons-dbcp 1.4

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1.300 libsepol 3.1-1

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1.302 blockhound 1.0.3.RELEASE

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* /opt/cola/permits/1100808807_1602884018.26/0/blockhound-1-0-3-release-sources-jar/reactor/blockhound/integration/BlockHoundIntegration.java
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* /opt/cola/permits/1100808807_1602884018.26/0/blockhound-1-0-3-release-sources-jar/reactor/blockhound/BlockHound.java

1.303 xerces-j 2.12.2

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1.305 libunwind 1.3.2-2

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1.337 sax 1.2.4

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1.338 exit 0.1.2

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1.340 google-uuid 1.0.0

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1.342 urfave-cli v1.20.0

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1.343 reflections 0.9.9-RC1

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1.344 jsesc 2.5.2

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1.346 apache-aries-jmx-api 1.1.5

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1.354 encoder 1.2.3

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1.355 javassist 3.16.1-GA

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* /opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-jar/javassist/tools/rmi/ObjectImporter.java
* /opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-jar/javassist/bytecode/SignatureAttribute.java
* /opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-jar/javassist/bytecode/analysis/Analyzer.java
* /opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-

jar/javassist/bytecode/stackmap/Liveness.java
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* /opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-jar/javassist/bytecode/stackmap/TypedBlock.java
* /opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-jar/javassist/tools/framedump.java
* /opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-jar/javassist/tools/reflect/Metalevel.java
* /opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-jar/javassist/runtime/Cflow.java
* /opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-jar/javassist/expr/Expr.java
* /opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-jar/javassist/compiler/JvstTypeChecker.java
* /opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-jar/javassist/ClassMap.java
* /opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-jar/javassist/util/proxy/ProxyObjectInputStream.java
* /opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-jar/javassist/CodeConverter.java
* /opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-jar/javassist/bytecode/InnerClassesAttribute.java
* /opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-jar/javassist/bytecode/AnnotationDefaultAttribute.java
* /opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-jar/javassist/convert/TransformWriteField.java
* /opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-jar/javassist/tools/reflect/Loader.java
* /opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-jar/javassist/tools/reflect/Reflection.java
* /opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-jar/javassist/compiler/ast/Symbol.java
* /opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-jar/javassist/convert/TransformNewClass.java
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/opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-
jar/javassist/expr/ConstructorCall.java
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* /opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-
jar/javassist/bytecode/stackmap/TypeTag.java
* /opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-jar/javassist/expr/Handler.java
* /opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-
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* /opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-
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* /opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-
jar/javassist/util/proxy/ProxyObject.java
* /opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-jar/javassist/ClassPath.java
* /opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-
jar/javassist/tools/reflect/Compiler.java
*
/opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-
jar/javassist/scopedpool/SoftValueHashMap.java
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jar/javassist/tools/web/BadHttpRequest.java
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jar/javassist/compiler/ast/AssignExpr.java
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/opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-
jar/javassist/bytecode/BadBytecode.java
* /opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-jar/javassist/bytecode/ClassFile.java
* /opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-
jar/javassist/bytecode/ClassFilePrinter.java
* /opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-
jar/javassist/tools/reflect/Metaobject.java
* /opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-jar/javassist/CtNewConstructor.java
* /opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-jar/javassist/expr/Cast.java
* /opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-jar/javassist/CtNewNestedClass.java
* /opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-jar/javassist/expr/Instanceof.java

* /opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-jar/javassist/SerialVersionUID.java
*
/opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-jar/javassist/bytecode/StackMapTable.java
* /opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-jar/javassist/CtNewClass.java
* /opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-jar/javassist/util/proxy/SecurityActions.java
* /opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-jar/javassist/bytecode/MethodInfo.java
* /opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-jar/javassist/compiler/TypeChecker.java
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/*
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Found in path(s):
* /opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-jar/javassist/bytecode/annotation/ShortMemberValue.java
* /opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-jar/javassist/bytecode/annotation/EnumMemberValue.java
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/opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-jar/javassist/bytecode/annotation/AnnotationMemberValue.java
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* /opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-jar/javassist/bytecode/annotation/CharMemberValue.java
* /opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-jar/javassist/bytecode/annotation/MemberValue.java
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* /opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-

jar/javassist/bytecode/annotation/BooleanMemberValue.java
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/opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-jar/javassist/bytecode/annotation/StringMemberValue.java
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* /opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-jar/javassist/bytecode/annotation/LongMemberValue.java
* /opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-jar/javassist/bytecode/annotation/FloatMemberValue.java
* /opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-jar/javassist/bytecode/annotation/ByteMemberValue.java
* /opt/cola/permits/1112468355_1607092660.27/0/javassist-3-16-1-ga-sources-jar/javassist/bytecode/annotation/ClassMemberValue.java

1.356 nose 1.3.7

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable
source code for the Library including whatever
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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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1.367 sanitized-anchor-name 1.0.0

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1.369 iotop 0.6

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1.373 springfox-oas 3.0.0

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* /opt/cola/permits/1121920053_1610435893.6/0/springfox-oas-3-0-0-sources-jar/springfox/documentation/oas/mappers/VendorExtensionsMapper.java
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* /opt/cola/permits/1121920053_1610435893.6/0/springfox-oas-3-0-0-sources-jar/springfox/documentation/oas/annotations/EnableOpenApi.java
*
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* /opt/cola/permits/1121920053_1610435893.6/0/springfox-oas-3-0-0-sources-jar/springfox/documentation/oas/web/OpenApiControllerWebFlux.java
* /opt/cola/permits/1121920053_1610435893.6/0/springfox-oas-3-0-0-sources-jar/springfox/documentation/oas/configuration/OpenApiDocumentationConfiguration.java
* /opt/cola/permits/1121920053_1610435893.6/0/springfox-oas-3-0-0-sources-jar/springfox/documentation/oas/web/OpenApiControllerWebMvc.java
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* /opt/cola/permits/1121920053_1610435893.6/0/springfox-oas-3-0-0-sources-jar/springfox/documentation/oas/mappers/MapSchema.java

1.374 springfox-bean-validators 3.0.0

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* /opt/cola/permits/1121920052_1610435891.65/0/springfox-bean-validators-3-0-0-sources-jar/springfox/bean/validators/plugins/parameter/PatternAnnotationPlugin.java
* /opt/cola/permits/1121920052_1610435891.65/0/springfox-bean-validators-3-0-0-sources-jar/springfox/bean/validators/plugins/parameter/ExpandedParameterPatternAnnotationPlugin.java
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* /opt/cola/permits/1121920052_1610435891.65/0/springfox-bean-validators-3-0-0-sources-jar/springfox/bean/validators/plugins/parameter/ExpandedParameterNotNullAnnotationPlugin.java
*
 /opt/cola/permits/1121920052_1610435891.65/0/springfox-bean-validators-3-0-0-sources-jar/springfox/bean/validators/plugins/parameter/ExpandedParameterNotBlankAnnotationPlugin.java
* /opt/cola/permits/1121920052_1610435891.65/0/springfox-bean-validators-3-0-0-sources-jar/springfox/bean/validators/configuration/BeanValidatorPluginsConfiguration.java
* /opt/cola/permits/1121920052_1610435891.65/0/springfox-bean-validators-3-0-0-sources-jar/springfox/bean/validators/plugins/Validators.java
* /opt/cola/permits/1121920052_1610435891.65/0/springfox-bean-validators-3-0-0-sources-jar/springfox/bean/validators/plugins/schema/PatternAnnotationPlugin.java
* /opt/cola/permits/1121920052_1610435891.65/0/springfox-bean-validators-3-0-0-sources-jar/springfox/bean/validators/plugins/parameter/NotNullAnnotationPlugin.java
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* /opt/cola/permits/1121920052_1610435891.65/0/springfox-bean-validators-3-0-0-sources-jar/springfox/bean/validators/plugins/schema/DecimalMinMaxAnnotationPlugin.java
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* /opt/cola/permits/1121920052_1610435891.65/0/springfox-bean-validators-3-0-0-sources-jar/springfox/bean/validators/plugins/schema/NotBlankAnnotationPlugin.java
* /opt/cola/permits/1121920052_1610435891.65/0/springfox-bean-validators-3-0-0-sources-jar/springfox/bean/validators/plugins/schema/IsNullAnnotationPlugin.java
* /opt/cola/permits/1121920052_1610435891.65/0/springfox-bean-validators-3-0-0-sources-jar/springfox/bean/validators/plugins/parameter/SizeAnnotationPlugin.java
* /opt/cola/permits/1121920052_1610435891.65/0/springfox-bean-validators-3-0-0-sources-jar/springfox/bean/validators/plugins/parameter/MinMaxAnnotationPlugin.java
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* /opt/cola/permits/1121920052_1610435891.65/0/springfox-bean-validators-3-0-0-sources-jar/springfox/bean/validators/plugins/schema/NotNullAnnotationPlugin.java

1.375 springfox-data-rest 3.0.0

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1.393 xml-name-validator 3.0.0

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.399 libmnl 1.0.4-6.el8

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object

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@enumerate 0
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Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through
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a) The modified work must
itself be a software library.

b) You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this
function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition,
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This option is useful when you wish to copy part of the code of the
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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to

distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the

copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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<signature of Ty Coon>, 1 April 1990
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Version 3, 29 June 2007

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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4 to
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A compilation of a covered work with other separate and independent
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a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

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1.416 whatwg-encoding 1.0.5

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1.418 errors 0.9.1

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1.419 uri-js 4.4.1

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1.421 diskv 2.0.1+incompatible

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1.422 httpcomponents-core 4.4.13

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1.423 commons-lang3 2.6

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1.424 jcommander 1.78

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* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/UnixStyleUsageFormatter.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/JCommander.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/DefaultUsageFormatter.java

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* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/converters/URLConverter.java
*
 /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/internal/Lists.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/ParameterException.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/internal/DefaultConverterFactory.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/converters/IntegerConverter.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/converters/FileConverter.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/converters/StringConverter.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/IStringConverter.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/internal/Sets.java
*
 /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/converters/LongConverter.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/internal/Maps.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-

jar/com/beust/jcommander/converters/InetAddressConverter.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/Parameters.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/ParameterDescription.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/converters/URIConverter.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/converters/BaseConverter.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/converters/CharArrayConverter.java
*
 /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/converters/PathConverter.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/ParametersDelegate.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/ResourceBundle.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/defaultprovider/PropertyFileDefaultProvider.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/IDefaultProvider.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/converters/DoubleConverter.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/converters/BigDecimalConverter.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/converters/FloatConverter.java
*
 /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/MissingCommandException.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/converters/NoConverter.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/converters/BooleanConverter.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/Parameter.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/converters/ISO8601DateConverter.java
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* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/validators/NoValueValidator.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/IParameterValidator.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/IParameterValidator2.java

1.425 commons-logging 1.2

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* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Log4JLogger.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/LogFactoryImpl.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Jdk13LumberjackLogger.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/SimpleLog.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-

jar/org/apache/commons/logging/impl/Jdk14Logger.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/LogSource.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/NoOpLog.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/LogKitLogger.java
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* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/ServletContextCleaner.java

1.426 bcel 2.7.2

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/**
* This is a special exception that is used to stop parsing when
* search for an element. For instance, when searching
 for xml:stylesheet
* PIs, it is used to stop the parse once the document element is found.
* @see StylesheetPIHandler
* @xsl.usage internal
*/

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 /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/XslAttribute.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/NodeLocator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToStream.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-

jar/org/apache/xalan/xsltc/runtime/MessageHandler.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/dom/KeyIndex.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/ElemDesc.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/templates/ElemForEach.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/patterns/ContextMatchStepPattern.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/res/XPATHErrorResources_zh.java
*
/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/functions/FuncBoolean.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/util/NodeSetType.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/CurrentCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/trax/TransformerHandlerImpl.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/util/SecuritySupport.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/axes/WalkingIteratorSorted.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/templates/ElemWhen.java
*
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jar/org/apache/xalan/xsltc/compiler/Number.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/utils/res/XResources_el.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/transformer/TransformerHandlerImpl.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/trax/DOM2TO.java
*
/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/templates/Stylesheet.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/VariableStack.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/DTMWSFilter.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/axes/FilterExprIteratorSimple.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/res/XSLTErrorResources_zh_CN.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/dom/MultiValuedNodeHeapIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/res/XSLTErrorResources_zh_TW.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/templates/ElemElement.java
*
/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/ConcatCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/res/XSLTErrorResources_de.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/transformer/ResultNameSpace.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/processor/ProcessorLRE.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/utils/SerializerMessages_fr.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/trax/ObjectFactory.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/utils/res/XResources_ja_JP_A.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/Gt.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/res/XMLErrorResources_fr.java
*
/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/res/XMLErrorResources_cs.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/dtm/DTMConfigurationException.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-

jar/org/apache/xml/dtm/ref/DTMNodeList.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/Axis.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/templates/XUnresolvedVariable.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/functions/FuncFalse.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/SecuritySupport.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_sl.java
*
 /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/dom/AbsoluteIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/dom/CurrentNodeListIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/IllegalCharException.java
No license file was found, but licenses were detected in source scan.

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* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
/*
* $Id: Version.src 1225426 2011-12-29 04:13:08Z mrglavas $
*/
package org.apache.xalan;

/**
* Administrative
 class to keep track of the version number of
* the Xalan release.
* <P>This class implements the upcoming standard of having
* org.apache.project-name.Version.getVersion() be a standard way
* to get version information.  This class will replace the older
```

```
* org.apache.xalan.processor.Version class.</P>
* <P>See also: org/apache/xalan/res/XSLTInfo.properties for
* information about the version of the XSLT spec we support.</P>
* @xsl.usage general
*/
public class Version
{

 /**
  * Get the basic version string for the current Xalan release.
  * Version String formatted like
  * <CODE>"<B>Xalan</B> <B>Java</B> v.r[.dd| <B>D</B>nn]"</CODE>.
  *
  * Futurework: have this read version info from jar manifest.
  *
  * @return String denoting our current version
  */
 public static String getVersion()
 {
   return getProduct()+" "+getImplementationLanguage()+" "
        +getMajorVersionNum()+"."+getReleaseVersionNum()+"."

      +( (getDevelopmentVersionNum() > 0) ?
           ("D"+getDevelopmentVersionNum()) : (""+getMaintenanceVersionNum()));
 }

 /**
  * Print the processor version to the command line.
  *
  * @param argv command line arguments, unused.
  */
 public static void main(String argv[])
 {
  System.out.println(getVersion());
 }

 /**
  * Name of product: Xalan.
  */
 public static String getProduct()
 {
  return "Xalan";
 }

 /**
  * Implementation Language: Java.
  */
 public static String getImplementationLanguage()
```

```
{
  return "Java";
}


/**
 * Major version number.
 * Version number. This changes only when there is a
 *         significant, externally apparent enhancement from
 *         the previous release. 'n' represents the n'th
 *         version.
 *
 *         Clients should carefully consider the implications
 *         of new versions as external interfaces and behaviour
 *
        may have changed.
 */
public static int getMajorVersionNum()
{
  return @version.VERSION@;

}

/**
 * Release Number.
 * Release number. This changes when:
 *           -  a new set of functionality is to be added, eg,
 *              implementation of a new W3C specification.
 *           -  API or behaviour change.
 *           -  its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
  return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 *         drop applied to a specific release and contains
 *         fixes for defects reported. It maintains compatibility
 *         with the release and contains no API changes.
 *         When missing, it designates the final and complete
 *         development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
  return
```

```
@version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 *        a specific release. D01 is the first development drop
 *        of a new release.
 *
 *        Development drops are works in progress towards a
 *        compeleted, final release. A specific development drop
 *        may not completely implement all aspects of a new
 *        feature, which may take several development drops to
 *        complete. At the point of the final drop for the
 *        release, the D suffix will be omitted.
 *
 *        Each 'D' drops can contain functional enhancements as
 *        well as defect fixes. 'D' drops may not be as stable as
 *        the final releases.
 */
public static int getDevelopmentVersionNum()
{
  try {
      if ((new String("@version.DEVELOPER@")).length() == 0)
        return 0;
      else
        return Integer.parseInt("@version.DEVELOPER@");
   } catch (NumberFormatException nfe) {
         return 0;
  }
 }
}
```

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/Version.src
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```
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```

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* limitations under the License.
*/
/*
* $Id: Version.src 468654 2006-10-28 07:09:23Z minchau $
*/
package org.apache.xml.serializer;

/**
 * Administrative class to keep track of the version number of
* the Serializer release.
* <P>This class implements the upcoming standard of having
* org.apache.project-name.Version.getVersion() be a standard way
* to get version information.</P>
* @xsl.usage general
*/
public final class Version
{

 /**
  * Get the basic version string for the current Serializer.
  * Version String formatted like
  * <CODE>"<B>Serializer</B> <B>Java</B> v.r[.dd| <B>D</B>nn]"</CODE>.
  *
  * Futurework: have this read version info from jar manifest.
  *
  * @return String denoting our current version
  */
 public static String getVersion()
 {
   return getProduct()+" "+getImplementationLanguage()+" "
        +getMajorVersionNum()+"."+getReleaseVersionNum()+"."
        +( (getDevelopmentVersionNum() > 0) ?
           ("D"+getDevelopmentVersionNum()) : (""+getMaintenanceVersionNum()));
 }

 /**
  * Print the processor version to the command
 line.
  *
  * @param argv command line arguments, unused.
  */
 public static void main(String argv[])
 {
   System.out.println(getVersion());
```

```
}

/**
 * Name of product: Serializer.
 */
public static String getProduct()
{
  return "Serializer";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
  return "Java";
}


/**
 * Major version number.
 * Version number. This changes only when there is a
 *         significant, externally apparent enhancement from
 *         the previous release. 'n' represents the n'th
 *         version.
 *
 *         Clients should carefully consider the implications
 *         of new versions as external interfaces and behaviour
 *         may have changed.
 */
public static int getMajorVersionNum()
{
  return @version.VERSION@;

}

/**
 * Release Number.
 * Release number. This
changes when:
 *           -  a new set of functionality is to be added, eg,
 *              implementation of a new W3C specification.
 *           -  API or behaviour change.
 *           -  its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
  return @version.RELEASE@;
```

```
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 *        drop applied to a specific release and contains
 *        fixes for defects reported. It maintains compatibility
 *        with the release and contains no API changes.
 *        When missing, it designates the final and complete
 *        development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
  return @version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 *        a specific release. D01 is the first development
drop
 *        of a new release.
 *
 *        Development drops are works in progress towards a
 *        compeleted, final release. A specific development drop
 *        may not completely implement all aspects of a new
 *        feature, which may take several development drops to
 *        complete. At the point of the final drop for the
 *        release, the D suffix will be omitted.
 *
 *        Each 'D' drops can contain functional enhancements as
 *        well as defect fixes. 'D' drops may not be as stable as
 *        the final releases.
 */
public static int getDevelopmentVersionNum()
{
  try {
      if ((new String("@version.DEVELOPER@")).length() == 0)
        return 0;
      else
        return Integer.parseInt("@version.DEVELOPER@");
  } catch (NumberFormatException nfe) {
         return 0;
  }
 }
}
```

Found in path(s):

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.src
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* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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* limitations under the License.
*/
```

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/XPathLexer.java
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* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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* limitations under the License.
*/
// Proprietary
/** The 'document-location()' id (Proprietary). */
```

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/compiler/FunctionTable.java

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* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
/**
  * Major version number.
  * Version number. This changes only when there is a
  *         significant, externally apparent
 enhancement from
  *         the previous release. 'n' represents the n'th
  *         version.
  *
  *         Clients should carefully consider the implications
  *         of new versions as external interfaces and behaviour
  *         may have changed.
  */
```

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLProcessorVersion.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/Version.java
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```

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* See the License for the specific language governing permissions and
* limitations under the License.
*/

/*
* $Id: xpath.cup 1225752 2011-12-30 04:12:46Z mrglavas $
*/

/*
* @author Jacek Ambroziak
* @author
 Santiago Pericas-Geertsen
* @author Morten Jorgensen
* @author G. Todd Miller
*/

package org.apache.xalan.xsltc.compiler;

import java.util.Stack;
import java.util.Vector;
import java.io.StringReader;
import java_cup.runtime.*;

import org.apache.xml.dtm.DTM;
import org.apache.xalan.xsltc.DOM;
import org.apache.xml.dtm.Axis;
import org.apache.xalan.xsltc.runtime.Operators;
import org.apache.xalan.xsltc.compiler.util.ErrorMsg;

parser code {:
  /**
   * Used by function calls with no args.
   */
  static public final Vector EmptyArgs = new Vector(0);

  /**
   * Reference to non-existing variable.
   */
  static public final VariableRef DummyVarRef = null;

  /**
   * Reference to the Parser class.
   */
  private Parser _parser;
```

```
  private XSLTC  _xsltc;

  /**
   * String representation of the expression being parsed.
   */
  private String _expression;

  /**
   * Line number where this expression/pattern
was declared.
   */
  private int _lineNumber = 0;

  /**
   * Reference to the symbol table.
   */
  public SymbolTable _symbolTable;

  public XPathParser(Parser parser) {
      _parser = parser;
_xsltc = parser.getXSLTC();
      _symbolTable = parser.getSymbolTable();
  }

  public int getLineNumber() {
      return _lineNumber;
  }

  public QName getQNameIgnoreDefaultNs(String name) {
       return _parser.getQNameIgnoreDefaultNs(name);
  }

  public QName getQName(String namespace, String prefix, String localname) {
      return _parser.getQName(namespace, prefix, localname);
  }

  public void setMultiDocument(boolean flag) {
       _xsltc.setMultiDocument(flag);
  }

  public void setCallsNodeset(boolean flag) {
       _xsltc.setCallsNodeset(flag);
  }

  public void setHasIdCall(boolean flag) {
       _xsltc.setHasIdCall(flag);
  }
```

```
  /**
   * This
method is similar to findNodeType(int, Object) except that it
   * creates a StepPattern instead of just returning a node type. It also
   * differs in the way it handles "{uri}:*" and "{uri}:@*". The last two
   * patterns are expanded as "*[namespace-uri() = 'uri']" and
   * "@*[namespace-uri() = 'uri']", respectively. This expansion considerably
   * simplifies the grouping of patterns in the Mode class. For this
   * expansion to be correct, the priority of the pattern/template must be
   * set to -0.25 (when no other predicates are present).
   */
  public StepPattern createStepPattern(int axis, Object test, Vector predicates) {
int nodeType;

if (test == null) {  // "*"
    nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
 (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;

    return new StepPattern(axis, nodeType, predicates);
      }
      else if (test instanceof Integer) {
    nodeType = ((Integer) test).intValue();



   return new StepPattern(axis, nodeType, predicates);
      }
      else {
    QName name = (QName)test;
    boolean setPriority = false;

    if (axis == Axis.NAMESPACE) {
 nodeType = (name.toString().equals("*")) ? -1
   : _xsltc.registerNamespacePrefix(name);;
          }
    else {
 final String uri = name.getNamespace();
 final String local = name.getLocalPart();
 final QName namespace_uri =
     _parser.getQNameIgnoreDefaultNs("namespace-uri");

 // Expand {uri}:* to *[namespace-uri() = 'uri'] - same for @*
 if (uri != null && (local.equals("*") || local.equals("@*"))) {
     if (predicates == null) {
  predicates = new Vector(2);
     }

     // Priority is set by hand if no other predicates exist
```

```
    setPriority = (predicates.size() == 0);

    predicates.add(
  new Predicate(
     new EqualityExpr(Operators.EQ,
   new NamespaceUriCall(namespace_uri),
   new LiteralExpr(uri))));
 }

 if (local.equals("*"))
{
    nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
  : NodeTest.ELEMENT;
 }
 else if (local.equals("@*")) {
    nodeType = NodeTest.ATTRIBUTE;
 }
 else {
    nodeType = (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name)
  : _xsltc.registerElement(name);
 }
   }

   final StepPattern result = new StepPattern(axis, nodeType, predicates);

   // Set priority for case prefix:* and prefix:@* (no predicates)
   if (setPriority) {
 result.setPriority(-0.25);
   }

   return result;
}
  }

  public int findNodeType(int axis, Object test) {
if (test == null) {  // *
   return (axis == Axis.ATTRIBUTE) ?
 NodeTest.ATTRIBUTE :
 (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
     }
     else if (test instanceof Integer) {
         return ((Integer)test).intValue();
     }
     else {
   QName name = (QName)test;

   if (axis == Axis.NAMESPACE) {
 return (name.toString().equals("*"))
```

```
? -1
    : _xsltc.registerNamespacePrefix(name);
        }

   if (name.getNamespace() == null) {
 final String local = name.getLocalPart();

 if (local.equals("*")) {
    return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
  : NodeTest.ELEMENT;
 }
 else if (local.equals("@*")) {
    return NodeTest.ATTRIBUTE;
 }
   }

   return (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name)
 : _xsltc.registerElement(name);
     }
  }

  /**
   * Parse the expression passed to the current scanner. If this
   * expression contains references to local variables and it will be
   * compiled in an external module (not in the main class) request
   * the current template to create a new variable stack frame.
   *
   * @param lineNumber Line where the current expression is defined.
   * @param external   Set to <tt>true</tt> if this expression is
   *                   compiled in a separate module.
   *

   */
  public Symbol parse(String expression, int lineNumber) throws Exception {
     try {
   _expression = expression;
   _lineNumber = lineNumber;
   return super.parse();
     }
     catch (IllegalCharException e) {
        ErrorMsg err = new ErrorMsg(ErrorMsg.ILLEGAL_CHAR_ERR,
                                    lineNumber, e.getMessage());
        _parser.reportError(Constants.FATAL, err);
     }
     return null;
  }

  /**
```

```
   * Lookup a variable or parameter in the symbol table given its name.
   *
   * @param name Name of the symbol being looked up.
   */
  final SyntaxTreeNode lookupName(QName name) {
      // Is it a local var or param ?
      final SyntaxTreeNode result = _parser.lookupVariable(name);
if (result != null)
          return(result);
      else
    return(_symbolTable.lookupName(name));
  }

  public final void addError(ErrorMsg error) {
_parser.reportError(Constants.ERROR,
error);
  }

  public void report_error(String message, Object info) {
final ErrorMsg err = new ErrorMsg(ErrorMsg.SYNTAX_ERR, _lineNumber,
    _expression);
_parser.reportError(Constants.FATAL, err);
  }

  public void report_fatal_error(String message, Object info) {
      // empty
  }

  public RelativeLocationPath insertStep(Step step, RelativeLocationPath rlp) {
if (rlp instanceof Step) {
    return new ParentLocationPath(step, (Step) rlp);
}
else if (rlp instanceof ParentLocationPath) {
    final ParentLocationPath plp = (ParentLocationPath) rlp;
    final RelativeLocationPath newrlp = insertStep(step, plp.getPath());
    return new ParentLocationPath(newrlp, plp.getStep());
}
else {
    addError(new ErrorMsg(ErrorMsg.INTERNAL_ERR, "XPathParser.insertStep"));
    return rlp;
}
  }

  /**
   * Returns true if the axis applies to elements only. The axes
   * child, attribute, namespace, descendant
result in non-empty
   * nodesets only if the context node is of type element.
```

```
   */
  public boolean isElementAxis(int axis) {
 return (axis == Axis.CHILD || axis == Axis.ATTRIBUTE ||
  axis == Axis.NAMESPACE || axis == Axis.DESCENDANT);
  }
:}

terminal SLASH, DOT, LBRACK, RBRACK, VBAR, LPAREN, RPAREN, STAR, COMMA;
terminal DOLLAR, ATSIGN;
terminal DDOT, DCOLON, DSLASH;
terminal EQ, NE;
terminal LT, GT, LE, GE;
terminal PLUS, MINUS, DIV, MOD, MULT;
terminal String Literal;
terminal String QNAME;
terminal ID, KEY, TEXT, NODE, OR, AND, COMMENT, PI, PIPARAM, PRECEDINGSIBLING;
terminal SELF, PARENT, CHILD, ATTRIBUTE, ANCESTOR, ANCESTORORSELF, DESCENDANT;
terminal DESCENDANTORSELF, FOLLOWING, FOLLOWINGSIBLING, NAMESPACE, PRECEDING;
terminal Double REAL;
terminal Long INT;
terminal PATTERN, EXPRESSION;

non terminal SyntaxTreeNode TopLevel;

non terminal Expression Expr, Argument, LocationPath;
non terminal Expression Predicate, FilterExpr, Step;
non
 terminal Expression OrExpr, AndExpr, EqualityExpr;
non terminal Expression RelationalExpr, AdditiveExpr;
non terminal Expression MultiplicativeExpr, UnaryExpr;
non terminal Expression VariableReference, FunctionCall;
non terminal Expression PrimaryExpr, UnionExpr, PathExpr, AbbreviatedStep;
non terminal Expression RelativeLocationPath, AbbreviatedRelativeLocationPath;
non terminal Expression AbsoluteLocationPath, AbbreviatedAbsoluteLocationPath;

non terminal Object NodeTest, NameTest;

non terminal IdKeyPattern IdKeyPattern;
non terminal Pattern Pattern;
non terminal Pattern LocationPathPattern;
non terminal StepPattern ProcessingInstructionPattern;
non terminal RelativePathPattern RelativePathPattern;
non terminal StepPattern StepPattern;
non terminal Object NodeTestPattern, NameTestPattern;

non terminal Vector Predicates, NonemptyArgumentList;
non terminal QName QName, FunctionName, VariableName;
non terminal Integer AxisName, AxisSpecifier;
```

```
non terminal
 Integer ChildOrAttributeAxisSpecifier;

precedence left VBAR;
precedence left OR;
precedence left AND;
precedence nonassoc EQ, NE;
precedence left LT, GT, LE, GE;

precedence left PLUS, MINUS;
precedence left DIV, MOD, MULT;
precedence left DOLLAR;
precedence left ATSIGN;
precedence right DCOLON;

start with TopLevel;

TopLevel ::= PATTERN Pattern:pattern
        {: RESULT = pattern; :}

        | EXPRESSION Expr:expr
        {: RESULT = expr; :};

/* --------------------------- Patterns ---------------------------------- */

Pattern ::= LocationPathPattern:lpp
        {: RESULT = lpp; :}

        | LocationPathPattern:lpp VBAR Pattern:p
        {: RESULT = new AlternativePattern(lpp, p);  :};

LocationPathPattern ::= SLASH
        {: RESULT = new AbsolutePathPattern(null); :}

        | SLASH RelativePathPattern:rpp
        {: RESULT = new AbsolutePathPattern(rpp); :}

        | IdKeyPattern:ikp

      {: RESULT = ikp; :}

        | IdKeyPattern:ikp SLASH RelativePathPattern:rpp
        {: RESULT = new ParentPattern(ikp, rpp); :}

        | IdKeyPattern:ikp DSLASH RelativePathPattern:rpp
        {: RESULT = new AncestorPattern(ikp, rpp); :}

        | DSLASH RelativePathPattern:rpp
```

```
        {: RESULT = new AncestorPattern(rpp); :}

        | RelativePathPattern:rpp
        {: RESULT = rpp; :};

IdKeyPattern ::= ID LPAREN Literal:l RPAREN
        {: RESULT = new IdPattern(l);
          parser.setHasIdCall(true);
        :}

        | KEY LPAREN Literal:l1 COMMA Literal:l2 RPAREN
        {: RESULT = new KeyPattern(l1, l2); :};

ProcessingInstructionPattern ::= PIPARAM LPAREN Literal:l RPAREN
        {: RESULT = new ProcessingInstructionPattern(l); :};

RelativePathPattern ::= StepPattern:sp
        {: RESULT = sp; :}

        | StepPattern:sp SLASH RelativePathPattern:rpp
        {: RESULT
 = new ParentPattern(sp, rpp); :}

        | StepPattern:sp DSLASH RelativePathPattern:rpp
        {: RESULT = new AncestorPattern(sp, rpp); :};

StepPattern ::= NodeTestPattern:nt
        {:
  RESULT = parser.createStepPattern(Axis.CHILD, nt, null);
        :}

        | NodeTestPattern:nt Predicates:pp
        {:
  RESULT = parser.createStepPattern(Axis.CHILD, nt, pp);
        :}

        | ProcessingInstructionPattern:pip
        {: RESULT = pip; :}

    | ProcessingInstructionPattern:pip Predicates:pp
        {: RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp); :}

        | ChildOrAttributeAxisSpecifier:axis NodeTestPattern:nt
        {:
      RESULT = parser.createStepPattern(axis.intValue(), nt, null);
        :}

    | ChildOrAttributeAxisSpecifier:axis
```

```
   NodeTestPattern:nt Predicates:pp
         {:
      RESULT = parser.createStepPattern(axis.intValue(), nt, pp);
         :}

         | ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip
         {:
      RESULT = pip;  // TODO: report error if axis is attribute
   :}

   | ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip
  Predicates:pp
         {:
      // TODO: report error if axis is attribute
      RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp);
   :};

NodeTestPattern ::= NameTestPattern:nt
         {: RESULT = nt; :}

         | NODE
         {: RESULT = new Integer(NodeTest.ANODE); :}

         | TEXT
         {: RESULT = new Integer(NodeTest.TEXT); :}

         | COMMENT
         {: RESULT = new Integer(NodeTest.COMMENT); :}

         | PI
         {: RESULT = new Integer(NodeTest.PI); :};

NameTestPattern ::= STAR
         {: RESULT = null; :}

         | QName:qn
         {: RESULT = qn; :};

ChildOrAttributeAxisSpecifier ::= ATSIGN

         {: RESULT = new Integer(Axis.ATTRIBUTE); :}

         | CHILD DCOLON
         {: RESULT = new Integer(Axis.CHILD); :}

         | ATTRIBUTE DCOLON
         {: RESULT = new Integer(Axis.ATTRIBUTE); :};
```

```
Predicates ::= Predicate:p
          {:
  Vector temp = new Vector();
  temp.addElement(p);
  RESULT = temp;
          :}

          | Predicate:p Predicates:pp
          {: pp.insertElementAt(p, 0); RESULT = pp; :};

Predicate ::=  LBRACK Expr:e RBRACK
     {:
  RESULT = new Predicate(e);
     :};

/* -------------------------- Expressions -------------------------------- */

Expr ::= OrExpr:ex
       {: RESULT = ex; :};

OrExpr ::= AndExpr:ae
       {: RESULT = ae; :}

       | OrExpr:oe OR AndExpr:ae
       {: RESULT = new LogicalExpr(LogicalExpr.OR, oe, ae); :};

AndExpr ::= EqualityExpr:e
       {: RESULT = e; :}

       | AndExpr:ae AND EqualityExpr:ee
       {: RESULT = new LogicalExpr(LogicalExpr.AND,
 ae, ee); :};

EqualityExpr ::= RelationalExpr:re
       {: RESULT = re; :}

       | EqualityExpr:ee EQ RelationalExpr:re
       {: RESULT = new EqualityExpr(Operators.EQ, ee, re); :}

       | EqualityExpr:ee NE RelationalExpr:re
       {: RESULT = new EqualityExpr(Operators.NE, ee, re); :};

RelationalExpr ::= AdditiveExpr:ae
       {: RESULT = ae; :}

       | RelationalExpr:re LT AdditiveExpr:ae
       {: RESULT = new RelationalExpr(Operators.LT, re, ae); :}
```

```
        | RelationalExpr:re GT AdditiveExpr:ae
        {: RESULT = new RelationalExpr(Operators.GT, re, ae); :}

        | RelationalExpr:re LE AdditiveExpr:ae
        {: RESULT = new RelationalExpr(Operators.LE, re, ae); :}

        | RelationalExpr:re GE AdditiveExpr:ae
        {: RESULT = new RelationalExpr(Operators.GE, re, ae); :};

AdditiveExpr ::= MultiplicativeExpr:me
        {: RESULT = me; :}

        | AdditiveExpr:ae PLUS  MultiplicativeExpr:me
        {: RESULT = new BinOpExpr(BinOpExpr.PLUS,
 ae, me); :}

        | AdditiveExpr:ae MINUS MultiplicativeExpr:me
        {: RESULT = new BinOpExpr(BinOpExpr.MINUS, ae, me); :};

MultiplicativeExpr ::= UnaryExpr:ue
        {: RESULT = ue; :}

        | MultiplicativeExpr:me MULT UnaryExpr:ue
        {: RESULT = new BinOpExpr(BinOpExpr.TIMES, me, ue); :}

        | MultiplicativeExpr:me DIV UnaryExpr:ue
        {: RESULT = new BinOpExpr(BinOpExpr.DIV, me, ue); :}

        | MultiplicativeExpr:me MOD UnaryExpr:ue
        {: RESULT = new BinOpExpr(BinOpExpr.MOD, me, ue); :};

UnaryExpr ::= UnionExpr:ue
        {: RESULT = ue; :}

        | MINUS UnaryExpr:ue
        {: RESULT = new UnaryOpExpr(ue); :};

UnionExpr ::= PathExpr:pe
        {: RESULT = pe; :}

        | PathExpr:pe VBAR UnionExpr:rest
        {: RESULT = new UnionPathExpr(pe, rest); :};

PathExpr ::= LocationPath:lp
        {: RESULT = lp; :}

        | FilterExpr:fexp
        {: RESULT = fexp; :}
```

```
      | FilterExpr:fexp
 SLASH RelativeLocationPath:rlp
      {: RESULT = new FilterParentPath(fexp, rlp); :}

      | FilterExpr:fexp DSLASH RelativeLocationPath:rlp
      {:
        //
   // Expand '//' into '/descendant-or-self::node()/' or
   // into /descendant-or-self::*/
   //
   int nodeType = DOM.NO_TYPE;
   if (rlp instanceof Step &&
       parser.isElementAxis(((Step) rlp).getAxis()))
   {
       nodeType = DTM.ELEMENT_NODE;
   }
        final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
        FilterParentPath fpp = new FilterParentPath(fexp, step);
        fpp = new FilterParentPath(fpp, rlp);
        if (fexp instanceof KeyCall == false) {
            fpp.setDescendantAxis();
   }
        RESULT = fpp;
      :};

LocationPath ::= RelativeLocationPath:rlp
      {: RESULT = rlp; :}

      | AbsoluteLocationPath:alp
      {: RESULT = alp; :};

RelativeLocationPath ::= Step:step
      {: RESULT
 = step; :}

      | RelativeLocationPath:rlp SLASH Step:step
      {:
      if (rlp instanceof Step && ((Step) rlp).isAbbreviatedDot()) {
           RESULT = step;       // Remove './' from the middle
      }
      else if (((Step) step).isAbbreviatedDot()) {
           RESULT = rlp;        // Remove '/.' from the end
      }
      else {
          RESULT =
            new ParentLocationPath((RelativeLocationPath) rlp, step);
        }
```

```
    :}

    | AbbreviatedRelativeLocationPath:arlp
    {: RESULT = arlp; :};

AbsoluteLocationPath ::= SLASH
    {: RESULT = new AbsoluteLocationPath(); :}

    | SLASH RelativeLocationPath:rlp
    {: RESULT = new AbsoluteLocationPath(rlp); :}

    | AbbreviatedAbsoluteLocationPath:aalp
    {: RESULT = aalp; :};

AbbreviatedRelativeLocationPath ::= RelativeLocationPath:rlp DSLASH Step:step
    {:
  final Step right  = (Step)step;
      final
 int  axis   = right.getAxis();
      final int  type   = right.getNodeType();
      final Vector predicates = right.getPredicates();

      if ((axis == Axis.CHILD) && (type != NodeTest.ATTRIBUTE)) {
         // Compress './/child:E' into 'descendant::E' - if possible
         if (predicates == null) {
            right.setAxis(Axis.DESCENDANT);
            if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
          RESULT = right;
            }
            else {
               // Expand 'rlp//child::E' into 'rlp/descendant::E'
               RelativeLocationPath left = (RelativeLocationPath)rlp;
          RESULT = new ParentLocationPath(left, right);
            }
         }
         else {
            // Expand './/step' -> 'descendant-or-self::*/step'
            if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {

       Step left = new Step(Axis.DESCENDANTORSELF,
    DTM.ELEMENT_NODE, null);
               RESULT = new ParentLocationPath(left, right);
            }
            else {
               // Expand 'rlp//step' -> 'rlp/descendant-or-self::*/step'
               RelativeLocationPath left = (RelativeLocationPath)rlp;
               Step mid = new Step(Axis.DESCENDANTORSELF,
    DTM.ELEMENT_NODE, null);
```

```
                ParentLocationPath ppl = new ParentLocationPath(mid, right);
                RESULT = new ParentLocationPath(left, ppl);
            }
        }
    }
    else if ((axis == Axis.ATTRIBUTE) || (type == NodeTest.ATTRIBUTE)) {
        // Expand 'rlp//step' -> 'rlp/descendant-or-self::*/step'
        RelativeLocationPath left = (RelativeLocationPath)rlp;
        Step middle = new Step(Axis.DESCENDANTORSELF,
  DTM.ELEMENT_NODE, null);

        ParentLocationPath ppl = new ParentLocationPath(middle, right);
        RESULT = new ParentLocationPath(left, ppl);
}
else {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::node()/step'
        RelativeLocationPath left = (RelativeLocationPath)rlp;
    Step middle = new Step(Axis.DESCENDANTORSELF,
  DOM.NO_TYPE, null);
        ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
}
  :};


AbbreviatedAbsoluteLocationPath ::= DSLASH RelativeLocationPath:rlp
    {:
      //
// Expand '//' into '/descendant-or-self::node()/' or
// into /descendant-or-self::*/
//
int nodeType = DOM.NO_TYPE;
if (rlp instanceof Step &&
    parser.isElementAxis(((Step) rlp).getAxis()))
{
    nodeType = DTM.ELEMENT_NODE;
}
final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
RESULT =
new AbsoluteLocationPath(parser.insertStep(step,
(RelativeLocationPath) rlp));
:};

Step ::= NodeTest:ntest
    {:
      if (ntest instanceof Step) {
          RESULT = (Step)ntest;
      }
```

```
        else {
 RESULT = new Step(Axis.CHILD,
                    parser.findNodeType(Axis.CHILD, ntest),
                    null);
        }
    :}

    | NodeTest:ntest Predicates:pp
    {:
        if (ntest instanceof Step) {
            Step step = (Step)ntest;
            step.addPredicates(pp);
            RESULT = (Step)ntest;
        }
        else {
            RESULT = new Step(Axis.CHILD,
                    parser.findNodeType(Axis.CHILD, ntest), pp);
        }
    :}

    | AxisSpecifier:axis NodeTest:ntest Predicates:pp
    {: RESULT = new Step(axis.intValue(),
                    parser.findNodeType(axis.intValue(), ntest),
                     pp);
    :}

    | AxisSpecifier:axis NodeTest:ntest
    {: RESULT = new Step(axis.intValue(),
                    parser.findNodeType(axis.intValue(), ntest),
                    null);
    :}

    | AbbreviatedStep:abbrev
    {: RESULT = abbrev; :};

AxisSpecifier ::= AxisName:an DCOLON
    {: RESULT = an; :}

    | ATSIGN
    {: RESULT = new Integer(Axis.ATTRIBUTE); :};

AxisName ::=    ANCESTOR
    {: RESULT = new Integer(Axis.ANCESTOR); :}

    | ANCESTORORSELF
    {: RESULT = new Integer(Axis.ANCESTORORSELF); :}

    | ATTRIBUTE
```

```
        {: RESULT = new Integer(Axis.ATTRIBUTE); :}

        | CHILD
        {: RESULT = new Integer(Axis.CHILD); :}

        | DESCENDANT
        {: RESULT = new Integer(Axis.DESCENDANT); :}

        | DESCENDANTORSELF
        {: RESULT = new Integer(Axis.DESCENDANTORSELF); :}

        | FOLLOWING
        {: RESULT = new
 Integer(Axis.FOLLOWING); :}

        | FOLLOWINGSIBLING
        {: RESULT = new Integer(Axis.FOLLOWINGSIBLING); :}

        | NAMESPACE
        {: RESULT = new Integer(Axis.NAMESPACE); :}

        | PARENT
        {: RESULT = new Integer(Axis.PARENT); :}

        | PRECEDING
        {: RESULT = new Integer(Axis.PRECEDING); :}

        | PRECEDINGSIBLING
        {: RESULT = new Integer(Axis.PRECEDINGSIBLING); :}

        | SELF
        {: RESULT = new Integer(Axis.SELF); :};

    AbbreviatedStep ::= DOT
        {: RESULT = new Step(Axis.SELF, NodeTest.ANODE, null); :}

        | DDOT
        {: RESULT = new Step(Axis.PARENT, NodeTest.ANODE, null); :};

    FilterExpr ::=  PrimaryExpr:primary
        {: RESULT = primary; :}

        | PrimaryExpr:primary Predicates:pp
        {: RESULT = new FilterExpr(primary, pp); :};

    PrimaryExpr ::= VariableReference:vr
        {: RESULT = vr; :}
```

```
      | LPAREN Expr:ex RPAREN
      {: RESULT = ex; :}

| Literal:string
{:

/*
* If the string appears to have the syntax of a QName, store
* namespace info in the literal expression. This is used for
* element-available and function-available functions, among
* others. Also, the default namespace must be ignored.
*/
String namespace = null;
final int index = string.lastIndexOf(':');

if (index > 0) {
    final String prefix = string.substring(0, index);
    namespace = parser._symbolTable.lookupNamespace(prefix);
}
RESULT = (namespace == null) ? new LiteralExpr(string)
      : new LiteralExpr(string, namespace);
:}

      | INT:num
      {:
   long value = num.longValue();
   if (value < Integer.MIN_VALUE || value > Integer.MAX_VALUE) {
 RESULT = new RealExpr(value);
   }
   else {
            if (num.doubleValue() == -0)
               RESULT = new RealExpr(num.doubleValue());
            else if (num.intValue() == 0)
               RESULT = new IntExpr(num.intValue());

        else if (num.doubleValue() == 0.0)
               RESULT = new RealExpr(num.doubleValue());
            else
               RESULT = new IntExpr(num.intValue());
   }
      :}

      | REAL:num
      {: RESULT = new RealExpr(num.doubleValue()); :}

      | FunctionCall:fc
      {: RESULT = fc; :};
```

```
VariableReference ::= DOLLAR VariableName:varName
    {:
      // An empty qname prefix for a variable or parameter reference
      // should map to the null namespace and not the default URI.
      SyntaxTreeNode node = parser.lookupName(varName);

      if (node != null) {
        if (node instanceof Variable) {
          RESULT = new VariableRef((Variable)node);
        }
        else if (node instanceof Param) {
          RESULT = new ParameterRef((Param)node);
        }
        else {
          RESULT = new UnresolvedRef(varName);
         }
      }

      if (node == null) {
        RESULT = new UnresolvedRef(varName);
      }
    :};

FunctionCall ::= FunctionName:fname LPAREN RPAREN
    {:

     if (parser.getQNameIgnoreDefaultNs("current").equals(fname)) {
      RESULT = new CurrentCall(fname);
  }
     else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
      RESULT = new NumberCall(fname, parser.EmptyArgs);
  }
     else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
      RESULT = new StringCall(fname, parser.EmptyArgs);
  }
     else if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
      RESULT = new ConcatCall(fname, parser.EmptyArgs);
  }
     else if (parser.getQNameIgnoreDefaultNs("true").equals(fname)) {
      RESULT = new BooleanExpr(true);
  }
     else if (parser.getQNameIgnoreDefaultNs("false").equals(fname)) {

   RESULT = new BooleanExpr(false);
  }
     else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
      RESULT = new NameCall(fname);
  }
```

```
      else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
        RESULT = new GenerateIdCall(fname, parser.EmptyArgs);
  }
      else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
        RESULT = new StringLengthCall(fname, parser.EmptyArgs);
  }
      else if (parser.getQNameIgnoreDefaultNs("position").equals(fname)) {
        RESULT = new PositionCall(fname);
  }
      else if (parser.getQNameIgnoreDefaultNs("last").equals(fname)) {
        RESULT = new LastCall(fname);
  }
      else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
        RESULT = new LocalNameCall(fname);
  }
      else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
        RESULT = new NamespaceUriCall(fname);

 }
      else {
        RESULT = new FunctionCall(fname, parser.EmptyArgs);
  }
    :}

    | FunctionName:fname LPAREN NonemptyArgumentList:argl RPAREN
    {:
      if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
        RESULT = new ConcatCall(fname, argl);
  }
      else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
        RESULT = new NumberCall(fname, argl);
  }
      else if (parser.getQNameIgnoreDefaultNs("document").equals(fname)) {
  parser.setMultiDocument(true);
        RESULT = new DocumentCall(fname, argl);
  }
      else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
        RESULT = new StringCall(fname, argl);
  }
      else if (parser.getQNameIgnoreDefaultNs("boolean").equals(fname)) {
        RESULT = new BooleanCall(fname, argl);
  }
      else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {

    RESULT = new NameCall(fname, argl);
  }
      else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
        RESULT = new GenerateIdCall(fname, argl);
```

```
  }
      else if (parser.getQNameIgnoreDefaultNs("not").equals(fname)) {
        RESULT = new NotCall(fname, argl);
  }
      else if (parser.getQNameIgnoreDefaultNs("format-number").equals(fname)) {
        RESULT = new FormatNumberCall(fname, argl);
  }
      else if (parser.getQNameIgnoreDefaultNs("unparsed-entity-uri").equals(fname)) {
        RESULT = new UnparsedEntityUriCall(fname, argl);
  }
      else if (parser.getQNameIgnoreDefaultNs("key").equals(fname)) {
        RESULT = new KeyCall(fname, argl);
  }
      else if (parser.getQNameIgnoreDefaultNs("id").equals(fname)) {
        RESULT = new KeyCall(fname, argl);
        parser.setHasIdCall(true);
  }
      else if (parser.getQNameIgnoreDefaultNs("ceiling").equals(fname))
{
        RESULT = new CeilingCall(fname, argl);
  }
      else if (parser.getQNameIgnoreDefaultNs("round").equals(fname)) {
        RESULT = new RoundCall(fname, argl);
  }
      else if (parser.getQNameIgnoreDefaultNs("floor").equals(fname)) {
        RESULT = new FloorCall(fname, argl);
  }
      else if (parser.getQNameIgnoreDefaultNs("contains").equals(fname)) {
        RESULT = new ContainsCall(fname, argl);
  }
      else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
        RESULT = new StringLengthCall(fname, argl);
  }
      else if (parser.getQNameIgnoreDefaultNs("starts-with").equals(fname)) {
        RESULT = new StartsWithCall(fname, argl);
  }
      else if (parser.getQNameIgnoreDefaultNs("function-available").equals(fname)) {
        RESULT = new FunctionAvailableCall(fname, argl);
  }
      else if (parser.getQNameIgnoreDefaultNs("element-available").equals(fname))
{
        RESULT = new ElementAvailableCall(fname, argl);
  }
      else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
        RESULT = new LocalNameCall(fname, argl);
  }
      else if (parser.getQNameIgnoreDefaultNs("lang").equals(fname)) {
        RESULT = new LangCall(fname, argl);
```

```
  }
      else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
        RESULT = new NamespaceUriCall(fname, argl);
  }
      else if (parser.getQName(Constants.TRANSLET_URI, "xsltc", "cast").equals(fname)) {
        RESULT = new CastCall(fname, argl);
  }
  // Special case for extension function nodeset()
      else if (fname.getLocalPart().equals("nodeset") || fname.getLocalPart().equals("node-set")) {
    parser.setCallsNodeset(true);  // implies MultiDOM
        RESULT = new FunctionCall(fname, argl);
  }
      else {
        RESULT = new FunctionCall(fname, argl);
  }
  :};

NonemptyArgumentList
 ::= Argument:arg
      {:
        Vector temp = new Vector();
        temp.addElement(arg);
        RESULT = temp;
      :}

      | Argument:arg COMMA NonemptyArgumentList:argl
      {: argl.insertElementAt(arg, 0); RESULT = argl; :};

FunctionName ::= QName:fname
      {:
    RESULT = fname;
 :};

VariableName ::= QName:vname
      {:
    RESULT = vname;
 :};

Argument ::= Expr:ex
      {: RESULT = ex; :};

NodeTest ::= NameTest:nt
      {: RESULT = nt; :}

      | NODE
      {: RESULT = new Integer(NodeTest.ANODE); :}

      | TEXT
```

```
    {: RESULT = new Integer(NodeTest.TEXT); :}

    | COMMENT
    {: RESULT = new Integer(NodeTest.COMMENT); :}

    | PIPARAM LPAREN Literal:l RPAREN
    {:
      QName name = parser.getQNameIgnoreDefaultNs("name");
      Expression exp = new EqualityExpr(Operators.EQ,
                                  new NameCall(name),
                                   new LiteralExpr(l));
      Vector predicates = new Vector();
      predicates.addElement(new Predicate(exp));
      RESULT = new Step(Axis.CHILD, NodeTest.PI, predicates);
    :}

    | PI
    {: RESULT = new Integer(NodeTest.PI); :};

NameTest ::= STAR
        {: RESULT = null; :}

        | QName:qn
        {: RESULT = qn; :};

QName ::= QNAME:qname
    {: RESULT = parser.getQNameIgnoreDefaultNs(qname); :}

 | DIV
    {: RESULT = parser.getQNameIgnoreDefaultNs("div"); :}

    | MOD
    {: RESULT = parser.getQNameIgnoreDefaultNs("mod"); :}

    | KEY
    {: RESULT = parser.getQNameIgnoreDefaultNs("key"); :}

    | ANCESTOR
    {: RESULT = parser.getQNameIgnoreDefaultNs("child"); :}

    | ANCESTORORSELF
    {: RESULT = parser.getQNameIgnoreDefaultNs("ancestor-or-self"); :}

    | ATTRIBUTE
    {: RESULT
 = parser.getQNameIgnoreDefaultNs("attribute"); :}

    | CHILD
```

```
        {: RESULT = parser.getQNameIgnoreDefaultNs("child"); :}

        | DESCENDANT
        {: RESULT = parser.getQNameIgnoreDefaultNs("decendant"); :}

        | DESCENDANTORSELF
        {: RESULT = parser.getQNameIgnoreDefaultNs("decendant-or-self"); :}

        | FOLLOWING
        {: RESULT = parser.getQNameIgnoreDefaultNs("following"); :}

        | FOLLOWINGSIBLING
        {: RESULT = parser.getQNameIgnoreDefaultNs("following-sibling"); :}

        | NAMESPACE
        {: RESULT = parser.getQNameIgnoreDefaultNs("namespace"); :}

        | PARENT
        {: RESULT = parser.getQNameIgnoreDefaultNs("parent"); :}

        | PRECEDING
        {: RESULT = parser.getQNameIgnoreDefaultNs("preceding"); :}

        | PRECEDINGSIBLING
        {: RESULT = parser.getQNameIgnoreDefaultNs("preceding-sibling"); :}

        | SELF
        {: RESULT = parser.getQNameIgnoreDefaultNs("self"); :}


      | ID
        {: RESULT = parser.getQNameIgnoreDefaultNs("id"); :};
```

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/xpath.cup
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Encodings.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-

jar/org/apache/xml/serializer/XMLEntities.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/output_text.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/res/XSLTInfo.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/output_xml.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/Makefile.inc
*
 /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/output_unknown.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/HTMLEntities.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/output_html.properties
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*/
// is found, then throw a special exception in order to terminate

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/processor/TransformerFactoryImpl.java
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*/
// Attribution to: "Voytenko, Dimitry" <DVoytenko@SECTORBASE.COM>

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToHTMLStream.java
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Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/domapi/XPathStylesheetDOM3Exception.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/package.html
*
/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/transformer/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/client/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/processor/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/domapi/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/templates/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/extensions/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/operations/package.html
*
/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/compiler/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/patterns/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/objects/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/package.html
*
/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/package.html
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*/
/**
* Execute the proprietary document-location() function, which returns
* a node set of documents.
* @xsl.usage advanced
 */
```

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncDoclocation.java
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*/
/*
* $Id: XSLProcessorVersion.src 468640 2006-10-28 06:53:53Z minchau $
*/
package org.apache.xalan.processor;

/**
 * Administrative class to keep track of the version number of
* the Xalan release.
* <P>See also: org/apache/xalan/res/XSLTInfo.properties</P>
* @deprecated To be replaced by org.apache.xalan.Version.getVersion()
* @xsl.usage general
*/
public class XSLProcessorVersion
{
```

```
/**
 * Print the processor version to the command line.
 *
 * @param argv command line arguments, unused.
 */
public static void main(String argv[])
{
  System.out.println(S_VERSION);
}

/**
 * Constant name of product.
 */
public static final String PRODUCT = "Xalan";

/**
 * Implementation Language.
 */
public static final String LANGUAGE = "Java";

/**
 * Major version number.
 * Version number. This changes only when there is a
 *         significant, externally apparent enhancement from
 *         the previous release. 'n' represents the n'th
 *         version.
 *
 *         Clients should carefully consider
the implications
 *         of new versions as external interfaces and behaviour
 *         may have changed.
 */
public static final int VERSION = @version.VERSION@;

/**
 * Release Number.
 * Release number. This changes when:
 *           -  a new set of functionality is to be added, eg,
 *              implementation of a new W3C specification.
 *           -  API or behaviour change.
 *           -  its designated as a reference release.
 */
public static final int RELEASE = @version.RELEASE@;

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 *         drop applied to a specific release and contains
```

```
 *        fixes for defects reported. It maintains compatibility
 *        with the release and contains no API changes.
 *        When missing, it designates the final and complete
 *        development drop for a release.
 */
public static final int MAINTENANCE
= @version.MINOR@;

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 *        a specific release. D01 is the first development drop
 *        of a new release.
 *
 *        Development drops are works in progress towards a
 *        compeleted, final release. A specific development drop
 *        may not completely implement all aspects of a new
 *        feature, which may take several development drops to
 *        complete. At the point of the final drop for the
 *        release, the D suffix will be omitted.
 *
 *        Each 'D' drops can contain functional enhancements as
 *        well as defect fixes. 'D' drops may not be as stable as
 *        the final releases.
 */
public static final int DEVELOPMENT = 0;

/**
 * Version String like <CODE>"<B>Xalan</B> <B>Language</B>
 * v.r[.dd| <B>D</B>nn]"</CODE>.
 * <P>Semantics of the version string are
identical to the Xerces project.</P>
 */
public static final String S_VERSION = PRODUCT+" "+LANGUAGE+" "
                        +VERSION+"."+RELEASE+"."
                        +(DEVELOPMENT > 0 ? ("D"+DEVELOPMENT)
                         : (""+MAINTENANCE));

}
```

Found in path(s):
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*/
/*
* $Id: xpath.lex 1225752 2011-12-30 04:12:46Z mrglavas $
*/

/*
* @author Jacek Ambroziak
* @author
 Santiago Pericas-Geertsen
* @author Morten Jorgensen
*
*/

package org.apache.xalan.xsltc.compiler;

import java_cup.runtime.Symbol;
%%
%cup
%unicode
%class XPathLexer
%yyeof

%{
      int last;

      void initialize() {
         last = -1;
      }

      static boolean isWhitespace(int c) {
         return (c == ' ' || c == '\t' || c == '\r' || c == '\n'  || c == '\f');
      }

      /**
       * If symbol is not followed by '::' or '(', then treat it as a
       * name instead of an axis or function (Jira-1912).
```

```
     */
    Symbol disambiguateAxisOrFunction(int ss) throws Exception {
        // Peek in the input buffer without changing the internal state
        int index = yy_buffer_index;

        // Skip whitespace
        while (index < yy_buffer_read && isWhitespace(yy_buffer[index])) {
            index++;
        }

        // If end of buffer, can't disambiguate :(

     if (index >= yy_buffer_read) {
            // Can't disambiguate, so return as symbol
            return new Symbol(ss);
        }

        // Return symbol if next token is '::' or '('
        return (yy_buffer[index] == ':' && yy_buffer[index+1] == ':' ||
                yy_buffer[index] == '(') ?
                newSymbol(ss) : newSymbol(sym.QNAME, yytext());
    }

    /**
     * If symbol is first token or if it follows any of the operators
     * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
     * name instead of a keyword (Jira-1912).
     */
    Symbol disambiguateOperator(int ss) throws Exception {
        switch (last) {
        case -1:    // first token
        case sym.ATSIGN:
        case sym.DCOLON:
        case sym.LPAREN:
        case sym.LBRACK:
        case sym.COMMA:
        case sym.AND:
        case sym.OR:
        case
sym.MOD:
        case sym.DIV:
        case sym.MULT:
        case sym.SLASH:
        case sym.DSLASH:
        case sym.VBAR:
        case sym.PLUS:
        case sym.MINUS:
        case sym.EQ:
```

```
        case sym.NE:
        case sym.LT:
        case sym.LE:
        case sym.GT:
        case sym.GE:
            return newSymbol(sym.QNAME, yytext());
        }
        return newSymbol(ss);
    }

    /**
     * If symbol is first token or if it follows any of the operators
     * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
     * wildcard instead of a multiplication operator
     */
    Symbol disambiguateStar() throws Exception {
        switch (last) {
        case -1:    // first token
        case sym.ATSIGN:
        case sym.DCOLON:
        case sym.LPAREN:
        case sym.LBRACK:
        case sym.COMMA:

case sym.AND:
        case sym.OR:
        case sym.MOD:
        case sym.DIV:
        case sym.MULT:
        case sym.SLASH:
        case sym.DSLASH:
        case sym.VBAR:
        case sym.PLUS:
        case sym.MINUS:
        case sym.EQ:
        case sym.NE:
        case sym.LT:
        case sym.LE:
        case sym.GT:
        case sym.GE:
            return newSymbol(sym.STAR);
        }
        return newSymbol(sym.MULT);
    }

    Symbol newSymbol(int ss) {
        last = ss;
        return new Symbol(ss);
```

```
    }

    Symbol newSymbol(int ss, String value) {
        last = ss;
        return new Symbol(ss, value);
    }

    Symbol newSymbol(int ss, Long value) {
        last = ss;
        return new Symbol(ss, value);
    }

    Symbol newSymbol(int ss, Double value) {
        last = ss;
        return new
 Symbol(ss, value);
    }
%}

%eofval{
return newSymbol(sym.EOF);
%eofval}

%yylexthrow{
Exception
%yylexthrow}

Letter={BaseChar}|{Ideographic}

BaseChar=[\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u00F6\u00F8-\u00FF\u0100-\u0131\u0134-
\u013E\u0141-\u0148\u014A-\u017E\u0180-\u01C3\u01CD-\u01F0\u01F4-\u01F5\u01FA-\u0217\u0250-
\u02A8\u02BB-\u02C1\u0386\u0388-\u038A\u038C\u038E-\u03A1\u03A3-\u03CE\u03D0-
\u03D6\u03DA\u03DC\u03DE\u03E0\u03E2-\u03F3\u0401-\u040C\u040E-\u044F\u0451-\u045C\u045E-
\u0481\u0490-\u04C4\u04C7-\u04C8\u04CB-\u04CC\u04D0-\u04EB\u04EE-\u04F5\u04F8-\u04F9\u0531-
\u0556\u0559\u0561-\u0586\u05D0-\u05EA\u05F0-\u05F2\u0621-\u063A\u0641-\u064A\u0671-\u06B7\u06BA-
\u06BE\u06C0-\u06CE\u06D0-\u06D3\u06D5\u06E5-\u06E6\u0905-\u0939\u093D\u0958-\u0961\u0985-
\u098C\u098F-\u0990\u0993-\u09A8\u09AA-\u09B0\u09B2\u09B6-\u09B9\u09DC-\u09DD\u09DF-
\u09E1\u09F0-\u09F1\u0A05-\u0A0A\u0A0F-\u0A10\u0A13-\u0A28\u0A2A-\u0A30\u0A32-\u0A33\u0A35-
\u0A36\u0A38-\u0A39\u0A59-\u0A5C\u0A5E\u0A72-\u0A74\u0A85-\u0A8B\u0A8D\u0A8F-\u0A91\u0A93-
\u0AA8\u0AAA-\u0AB0\u0AB2-\u0AB3\u0AB5-\u0AB9\u0ABD\u0AE0\u0B05-\u0B0C\u0B0F-\u0B10\u0B13-
\u0B28\u0B2A-\u0B30\u0B32-\u0B33\u0B36-\u0B39\u0B3D\u0B5C-\u0B5D\u0B5F-\u0B61\u0B85-
\u0B8A\u0B8E-\u0B90\u0B92-\u0B95\u0B99-\u0B9A\u0B9C\u0B9E-\u0B9F\u0BA3-\u0BA4\u0BA8-
\u0BAA\u0BAE-\u0BB5\u0BB7-\u0BB9\u0C05-\u0C0C\u0C0E-\u0C10\u0C12-\u0C28\u0C2A-\u0C33\u0C35-
\u0C39\u0C60-\u0C61\u0C85-\u0C8C\u0C8E-\u0C90\u0C92-\u0CA8\u0CAA-\u0CB3\u0CB5-
\u0CB9\u0CDE\u0CE0-\u0CE1\u0D05-\u0D0C\u0D0E-\u0D10\u0D12-\u0D28\u0D2A-\u0D39\u0D60-
\u0D61\u0E01-\u0E2E\u0E30\u0E32-\u0E33\u0E40-\u0E45\u0E81-\u0E82\u0E84\u0E87-
\u0E88\u0E8A\u0E8D\u0E94-\u0E97\u0E99-\u0E9F\u0EA1-\u0EA3\u0EA5\u0EA7\u0EAA-\u0EAB\u0EAD-
\u0EAE\u0EB0\u0EB2-\u0EB3\u0EBD\u0EC0-\u0EC4\u0F40-\u0F47\u0F49-\u0F69\u10A0-\u10C5\u10D0-
```

```
\u10F6\u1100\u1102-\u1103\u1105-\u1107\u1109\u110B-\u110C\u110E-
\u1112\u113C\u113E\u1140\u114C\u114E\u1150\u1154-\u1155\u1159\u115F-
\u1161\u1163\u1165\u1167\u1169\u116D-\u116E\u1172-\u1173\u1175\u119E\u11A8\u11AB\u11AE-
\u11AF\u11B7-\u11B8\u11BA\u11BC-\u11C2\u11EB\u11F0\u11F9\u1E00-\u1E9B\u1EA0-\u1EF9\u1F00-
\u1F15\u1F18-\u1F1D\u1F20-\u1F45\u1F48-\u1F4D\u1F50-\u1F57\u1F59\u1F5B\u1F5D\u1F5F-\u1F7D\u1F80-
\u1FB4\u1FB6-\u1FBC\u1FBE\u1FC2-\u1FC4\u1FC6-\u1FCC\u1FD0-\u1FD3\u1FD6-\u1FDB\u1FE0-
\u1FEC\u1FF2-\u1FF4\u1FF6-\u1FFC\u2126\u212A-\u212B\u212E\u2180-\u2182\u3041-\u3094\u30A1-
\u30FA\u3105-\u312C\uAC00-\uD7A3]

Ideographic=[\u4E00-\u9FA5\u3007\u3021-\u3029]


CombiningChar=[\u0300-\u0345\u0360-\u0361\u0483-\u0486\u0591-\u05A1\u05A3-\u05B9\u05BB-
\u05BD\u05BF\u05C1-\u05C2\u05C4\u064B-\u0652\u0670\u06D6-\u06DC\u06DD-\u06DF\u06E0-\u06E4\u06E7-
\u06E8\u06EA-\u06ED\u0901-\u0903\u093C\u093E-\u094C\u094D\u0951-\u0954\u0962-\u0963\u0981-
\u0983\u09BC\u09BE\u09BF\u09C0-\u09C4\u09C7-\u09C8\u09CB-\u09CD\u09D7\u09E2-
\u09E3\u0A02\u0A3C\u0A3E\u0A3F\u0A40-\u0A42\u0A47-\u0A48\u0A4B-\u0A4D\u0A70-\u0A71\u0A81-
\u0A83\u0ABC\u0ABE-\u0AC5\u0AC7-\u0AC9\u0ACB-\u0ACD\u0B01-\u0B03\u0B3C\u0B3E-\u0B43\u0B47-
\u0B48\u0B4B-\u0B4D\u0B56-\u0B57\u0B82-\u0B83\u0BBE-\u0BC2\u0BC6-\u0BC8\u0BCA-
\u0BCD\u0BD7\u0C01-\u0C03\u0C3E-\u0C44\u0C46-\u0C48\u0C4A-\u0C4D\u0C55-\u0C56\u0C82-
\u0C83\u0CBE-\u0CC4\u0CC6-\u0CC8\u0CCA-\u0CCD\u0CD5-\u0CD6\u0D02-\u0D03\u0D3E-\u0D43\u0D46-
\u0D48\u0D4A-\u0D4D\u0D57\u0E31\u0E34-\u0E3A\u0E47-\u0E4E\u0EB1\u0EB4-\u0EB9\u0EBB-
\u0EBC\u0EC8-\u0ECD\u0F18-\u0F19\u0F35\u0F37\u0F39\u0F3E\u0F3F\u0F71-\u0F84\u0F86-\u0F8B\u0F90-
\u0F95\u0F97\u0F99-\u0FAD\u0FB1-\u0FB7\u0FB9\u20D0-\u20DC\u20E1\u302A-\u302F\u3099\u309A]


Digit=[\u0030-\u0039\u0660-\u0669\u06F0-\u06F9\u0966-\u096F\u09E6-\u09EF\u0A66-\u0A6F\u0AE6-
\u0AEF\u0B66-\u0B6F\u0BE7-\u0BEF\u0C66-\u0C6F\u0CE6-\u0CEF\u0D66-\u0D6F\u0E50-\u0E59\u0ED0-
\u0ED9\u0F20-\u0F29]

Extender=[\u00B7\u02D0\u02D1\u0387\u0640\u0E46\u0EC6\u3005\u3031-\u3035\u309D-\u309E\u30FC-\u30FE]

NCName=({Letter}|"_"|{NCNameStartChar})({NCNameChar})*

NCNameChar={Letter}|{Digit}|"."|"-"|"_"|{CombiningChar}|{Extender}|{NCNameStartChar}|
 \u00B7 | [\u0300-\u036F] | [\u203F-\u2040] | [\u0130-\u0136]

NCNameStartChar=[\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u00F6\u00F8-\u02FF\u0370-
\u037D\u037F-\u1FFF\u200C-\u200D\u2070-\u218F\u2C00-\u2FEF\u3001-\uD7FF\uF900-\uFDCF\uFDF0-
\uFFFD] | \u005F |({HighSurrogate}{LowSurrogate})

HighSurrogate=[\uD800-\uDBFF]

LowSurrogate=[\uDC00-\uDFFF]

%%

"*"                    { return disambiguateStar(); }
```

```
"/"                    { return newSymbol(sym.SLASH); }
"+"                    { return newSymbol(sym.PLUS); }
"-"                    { return newSymbol(sym.MINUS); }
"div"                  { return disambiguateOperator(sym.DIV); }
"mod"                  { return disambiguateOperator(sym.MOD); }
"::"                   { return newSymbol(sym.DCOLON); }
","                    { return newSymbol(sym.COMMA); }
"@"                    { return newSymbol(sym.ATSIGN); }
".."                   { return newSymbol(sym.DDOT); }
"|"
  { return newSymbol(sym.VBAR); }
"$"                    { return newSymbol(sym.DOLLAR); }
"//"                   { return newSymbol(sym.DSLASH); }
"="                    { return newSymbol(sym.EQ); }
"!="                   { return newSymbol(sym.NE); }
"<"                    { return newSymbol(sym.LT); }
">"                    { return newSymbol(sym.GT); }
"<="                   { return newSymbol(sym.LE); }
">="                   { return newSymbol(sym.GE); }
"id"                   { return disambiguateAxisOrFunction(sym.ID); }
"key"                  { return disambiguateAxisOrFunction(sym.KEY); }
"text()"               { return newSymbol(sym.TEXT); }
"text"+[ \t\r\n\f]+"()"  { return newSymbol(sym.TEXT); }
"node()"               { return newSymbol(sym.NODE); }
"node"+[ \t\r\n\f]+"()"  { return newSymbol(sym.NODE); }
"comment()"            { return newSymbol(sym.COMMENT); }
"comment"+[ \t\r\n\f]+"()"  { return newSymbol(sym.COMMENT); }
"processing-instruction"
 { return disambiguateAxisOrFunction(sym.PIPARAM); }
"processing-instruction()"          { return newSymbol(sym.PI); }
"processing-instruction"+[ \t\r\n\f]+"()" { return newSymbol(sym.PI); }
"or"                   { return disambiguateOperator(sym.OR); }
"and"                  { return disambiguateOperator(sym.AND); }
"child"                { return disambiguateAxisOrFunction(sym.CHILD); }
"attribute"            { return disambiguateAxisOrFunction(sym.ATTRIBUTE); }
"ancestor"             { return disambiguateAxisOrFunction(sym.ANCESTOR); }
"ancestor-or-self"     { return disambiguateAxisOrFunction(sym.ANCESTORORSELF); }
"descendant"           { return disambiguateAxisOrFunction(sym.DESCENDANT); }
"descendant-or-self"   { return disambiguateAxisOrFunction(sym.DESCENDANTORSELF); }
"following"            { return disambiguateAxisOrFunction(sym.FOLLOWING); }
"following-sibling"    { return disambiguateAxisOrFunction(sym.FOLLOWINGSIBLING);
 }
"namespace"            { return disambiguateAxisOrFunction(sym.NAMESPACE); }
"parent"               { return disambiguateAxisOrFunction(sym.PARENT); }
"preceding"            { return disambiguateAxisOrFunction(sym.PRECEDING); }
"preceding-sibling"    { return disambiguateAxisOrFunction(sym.PRECEDINGSIBLING); }
"self"                 { return disambiguateAxisOrFunction(sym.SELF); }
"["                    { return newSymbol(sym.LBRACK); }
```

```
"]"                    { return newSymbol(sym.RBRACK); }
"("                    { return newSymbol(sym.LPAREN); }
")"                    { return newSymbol(sym.RPAREN); }
"<PATTERN>"            { initialize(); return new Symbol(sym.PATTERN); }
"<EXPRESSION>"         { initialize(); return new Symbol(sym.EXPRESSION); }
\"[^\"]*\"             { return newSymbol(sym.Literal,
        yytext().substring(1, yytext().length() - 1)); }
\'[^\']*\'             { return newSymbol(sym.Literal,
        yytext().substring(1,
 yytext().length() - 1)); }
{Digit}+               { return newSymbol(sym.INT, new Long(yytext())); }
{Digit}+("."{Digit}*)?   { return newSymbol(sym.REAL, new Double(yytext())); }
"."{Digit}+            { return newSymbol(sym.REAL, new Double(yytext())); }
"."                    { return newSymbol(sym.DOT); }
({NCName}":")?{NCName}   { return newSymbol(sym.QNAME, yytext()); }
({NCName}":")?"*"        { return newSymbol(sym.QNAME, yytext()); }
({NCName}":")?"@*"       { return newSymbol(sym.QNAME, yytext()); }
[ \t\r\n\f]            { /* ignore white space. */ }
.                      { throw new Exception(yytext()); }
```

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/xpath.lex
No license file was found, but licenses were detected in source scan.

```
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* limitations under the License.
*/
// Proprietary, built in functions
/** current function string (Proprietary). */
```

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/compiler/Keywords.java

1.427 commons-cli 1.4

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1.429 stax 4.2.1

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/**
   * Creates a new {@link GeneratorAdapter}. Subclasses must not use this
   * constructor. Instead, they must use the
   * {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
   * version.
   *
   * @param mv
   *   the
 method visitor to which this adapter delegates calls.
   * @param access
   *   the method's access flags (see {@link Opcodes}).
   * @param name
   *   the method's name.
   * @param desc
   *   the method's descriptor (see {@link Type Type}).
   * @throws IllegalStateException
   *   If a subclass calls this constructor.
   */

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/**
   * Creates a new JSRInliner. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the
   * {@link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
   * version.
   *
   * @param mv
   *
  the <code>MethodVisitor</code> to send the resulting inlined
   *          method code to (use <code>null</code> for none).
   * @param access
   *          the method's access flags (see {@link Opcodes}). This
   *          parameter also indicates if the method is synthetic and/or
   *          deprecated.
   * @param name
   *          the method's name.
   * @param desc
   *          the method's descriptor (see {@link Type}).
   * @param signature
   *          the method's signature. May be <tt>null</tt>.
   * @param exceptions
   *          the internal names of the method's exception classes (see
   *          {@link Type#getInternalName() getInternalName}). May be
   *          <tt>null</tt>.
   * @throws IllegalStateException
   *           If a subclass calls this constructor.
   */
```

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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/JSRInlinerAdapter.java
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```
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*/
/**
    * Constructs a new {@link ClassNode}. <i>Subclasses must not use this
    * constructor</i>. Instead, they must use the {@link #ClassNode(int)}
    * version.
    *
    * @throws IllegalStateException
    *         If a subclass calls this constructor.
     */
```

Found in path(s):
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/ClassNode.java
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*/
/**
   * Constructs a new {@link Textifier}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the {@link #Textifier(int)}
   * version.
   *
   * @throws IllegalStateException
   *         If a subclass calls this constructor.
    */
```

Found in path(s):
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/Textifier.java
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*/
/**
   * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
   * not use this constructor</i>. Instead, they must use the
   * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
   * version.
   *

   * @param typeRef
   *          a reference to the annotated type. See {@link TypeReference}.
   * @param typePath
   *          the path to the annotated type argument, wildcard bound, array
   *          element type, or static inner type within 'typeRef'. May be
   *          <tt>null</tt> if the annotation targets 'typeRef' as a whole.
   * @param start
   *          the fist instructions corresponding to the continuous ranges
   *          that make the scope of this local variable (inclusive).
   * @param end
   *          the last instructions corresponding to the continuous ranges
   *          that make the scope of this local variable (exclusive). This
   *          array must have the same size as the 'start' array.
   * @param index
   *          the local variable's index in each range. This array must have
   *          the same size as the 'start' array.
   * @param desc
```

```
    *           the class descriptor of
 the annotation class.
    */
```

Found in path(s):
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Type.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/AnnotationWriter.java
*
 /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/NameMapping.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/Printer.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/Shrinker.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/Method.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/RemappingFieldAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/ClassWriter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Attribute.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/MethodInsnNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/MethodVisitor.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/TraceFieldVisitor.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/SourceValue.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/AdviceAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/Remapper.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/BasicValue.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/FieldWriter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/ByteVector.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/AbstractInsnNode.java
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/JumpInsnNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/TableSwitchGenerator.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/FieldNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/FieldInsnNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/LabelNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-

jar/org/objectweb/asm/optimizer/ClassConstantsCollector.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/util/CheckSignatureAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/analysis/BasicVerifier.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/commons/InstructionAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/IntInsnNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/commons/RemappingClassAdapter.java
*
/opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/ClassReader.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/VarInsnNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/analysis/Value.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/optimizer/AnnotationConstantsCollector.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/AnnotationVisitor.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/InsnNode.java
*
/opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/signature/SignatureReader.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/LineNumberNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/optimizer/JarOptimizer.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/commons/LocalVariablesSorter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/util/TraceAnnotationVisitor.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/optimizer/Constant.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-

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*
 /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Handle.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/TryCatchBlockNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/optimizer/ClassOptimizer.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/ASMifier.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/util/TraceClassVisitor.java
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jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/analysis/Frame.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/InvokeDynamicInsnNode.java
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jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/InnerClassNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/LocalVariableNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/FieldVisitor.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Context.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/util/TraceMethodVisitor.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/optimizer/MethodConstantsCollector.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Handler.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/MethodNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/InsnList.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
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/opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/MethodWriter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/signature/SignatureWriter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/commons/TryCatchBlockSorter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Item.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Edge.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/ClassVisitor.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/FrameNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/optimizer/ConstantPool.java
*
/opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Opcodes.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
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jar/org/objectweb/asm/signature/SignatureVisitor.java
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*/
/**
   * Creates a new {@link AnalyzerAdapter}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the
   * {@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
   * version.
   *
   * @param owner
   *
     the owner's class name.
   * @param access
   *          the method's access flags (see {@link Opcodes}).
   * @param name
   *          the method's name.
   * @param desc
   *          the method's descriptor (see {@link Type Type}).
   * @param mv
   *          the method visitor to which this adapter delegates calls. May
   *          be <tt>null</tt>.
   * @throws IllegalStateException
   *           If a subclass calls this constructor.
   */
```

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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/shrink-resize.properties
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/ASMifiable.java

1.433 commons-lang3 3.11

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* /opt/cola/permits/1135872828_1613621005.88/0/ehcache-107-3-8-1-sources-1-jar/org/ehcache/jsr107/Eh107MXBean.java
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jar/org/ehcache/jsr107/config/package-info.java
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jar/org/ehcache/jsr107/Eh107CacheLoaderWriterProvider.java
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info.java
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jar/org/ehcache/jsr107/CacheResources.java
* /opt/cola/permits/1135872828_1613621005.88/0/ehcache-107-3-8-1-sources-1-
jar/org/ehcache/jsr107/Jsr107Service.java
* /opt/cola/permits/1135872828_1613621005.88/0/ehcache-107-3-8-1-sources-1-
jar/org/ehcache/jsr107/internal/tck/Eh107MBeanServerBuilder.java
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*
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jar/org/ehcache/jsr107/config/ConfigurationElementState.java
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jar/org/ehcache/jsr107/NullCompletionListener.java
* /opt/cola/permits/1135872828_1613621005.88/0/ehcache-107-3-8-1-sources-1-
jar/org/ehcache/jsr107/EhcacheCachingProvider.java
* /opt/cola/permits/1135872828_1613621005.88/0/ehcache-107-3-8-1-sources-1-
jar/org/ehcache/jsr107/internal/WrappedCacheLoaderWriter.java
* /opt/cola/permits/1135872828_1613621005.88/0/ehcache-107-3-8-1-sources-1-
jar/org/ehcache/jsr107/config/Jsr107CacheConfiguration.java
* /opt/cola/permits/1135872828_1613621005.88/0/ehcache-107-3-8-1-sources-1-
jar/org/ehcache/jsr107/Eh107CacheMXBean.java
* /opt/cola/permits/1135872828_1613621005.88/0/ehcache-107-3-8-1-sources-1-
jar/org/ehcache/jsr107/Eh107IdentityCopier.java
* /opt/cola/permits/1135872828_1613621005.88/0/ehcache-107-3-8-1-sources-1-
jar/org/ehcache/jsr107/Eh107CacheEntryEvent.java
*
/opt/cola/permits/1135872828_1613621005.88/0/ehcache-107-3-8-1-sources-1-
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* /opt/cola/permits/1135872828_1613621005.88/0/ehcache-107-3-8-1-sources-1-
jar/org/ehcache/jsr107/EhcacheExpiryWrapper.java
* /opt/cola/permits/1135872828_1613621005.88/0/ehcache-107-3-8-1-sources-1-
jar/org/ehcache/jsr107/Eh107CacheStatisticsMXBean.java
* /opt/cola/permits/1135872828_1613621005.88/0/ehcache-107-3-8-1-sources-1-
jar/org/ehcache/jsr107/ConfigurationMerger.java
* /opt/cola/permits/1135872828_1613621005.88/0/ehcache-107-3-8-1-sources-1-
jar/org/ehcache/jsr107/internal/Jsr107CacheConfigurationParser.java
* /opt/cola/permits/1135872828_1613621005.88/0/ehcache-107-3-8-1-sources-1-
jar/org/ehcache/jsr107/ExpiryPolicyToEhcacheExpiry.java

* /opt/cola/permits/1135872828_1613621005.88/0/ehcache-107-3-8-1-sources-1-jar/org/ehcache/jsr107/Eh107Cache.java
* /opt/cola/permits/1135872828_1613621005.88/0/ehcache-107-3-8-1-sources-1-jar/org/ehcache/jsr107/Unwrap.java
* /opt/cola/permits/1135872828_1613621005.88/0/ehcache-107-3-8-1-sources-1-jar/org/ehcache/jsr107/Eh107CacheLoaderWriter.java

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* /opt/cola/permits/1135872726_1613620740.71/0/ehcache-api-3-8-1-sources-1-jar/org/ehcache/event/package-info.java
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1.437 ehcache-impl 3.8.1

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* /opt/cola/permits/1135872533_1613620997.49/0/ehcache-impl-3-8-1-sources-1-jar/org/ehcache/impl/serialization/DoubleSerializer.java
* /opt/cola/permits/1135872533_1613620997.49/0/ehcache-impl-3-8-1-sources-1-jar/org/ehcache/impl/config/loaderwriter/package-info.java
* /opt/cola/permits/1135872533_1613620997.49/0/ehcache-impl-3-8-1-sources-1-jar/org/ehcache/impl/internal/spi/resilience/DefaultResilienceStrategyProviderFactory.java
* /opt/cola/permits/1135872533_1613620997.49/0/ehcache-impl-3-8-1-sources-1-jar/org/ehcache/impl/internal/util/Pacer.java
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* /opt/cola/permits/1135872533_1613620997.49/0/ehcache-impl-3-8-1-sources-1-jar/org/ehcache/impl/internal/classes/commonslang/ClassUtils.java
* /opt/cola/permits/1135872533_1613620997.49/0/ehcache-impl-3-8-1-sources-1-jar/org/ehcache/impl/internal/classes/commonslang/ArrayUtils.java
* /opt/cola/permits/1135872533_1613620997.49/0/ehcache-impl-3-8-1-sources-1-jar/org/ehcache/impl/internal/classes/commonslang/reflect/MethodUtils.java
* /opt/cola/permits/1135872533_1613620997.49/0/ehcache-impl-3-8-1-sources-1-jar/org/ehcache/impl/internal/classes/commonslang/reflect/ConstructorUtils.java

1.438 ehcache-xml 3.8.1

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* /opt/cola/permits/1135872744_1613620816.93/0/ehcache-xml-3-8-1-sources-1-jar/org/ehcache/xml/service/DefaultCacheEventDispatcherConfigurationParser.java
* /opt/cola/permits/1135872744_1613620816.93/0/ehcache-xml-3-8-1-sources-1-jar/org/ehcache/xml/CoreServiceCreationConfigurationParser.java
* /opt/cola/permits/1135872744_1613620816.93/0/ehcache-xml-3-8-1-sources-1-jar/org/ehcache/xml/service/DefaultSerializerConfigurationParser.java
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* /opt/cola/permits/1135872744_1613620816.93/0/ehcache-xml-3-8-1-sources-1-jar/org/ehcache/xml/provider/OffHeapDiskStoreProviderConfigurationParser.java
* /opt/cola/permits/1135872744_1613620816.93/0/ehcache-xml-3-8-1-sources-1-jar/org/ehcache/xml/multi/XmlMultiConfiguration.java
* /opt/cola/permits/1135872744_1613620816.93/0/ehcache-xml-3-8-1-sources-1-jar/org/ehcache/xml/ServiceCreationConfigurationParser.java
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* /opt/cola/permits/1135872744_1613620816.93/0/ehcache-xml-3-8-1-sources-1-jar/org/ehcache/xml/model/CacheSpec.java
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* /opt/cola/permits/1135872744_1613620816.93/0/ehcache-xml-3-8-1-sources-1-jar/org/ehcache/xml/model/CacheDefinition.java
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* /opt/cola/permits/1135872744_1613620816.93/0/ehcache-xml-3-8-1-sources-1-jar/org/ehcache/xml/model/ListenersConfig.java
* /opt/cola/permits/1135872744_1613620816.93/0/ehcache-xml-3-8-1-sources-1-jar/org/ehcache/xml/CacheServiceConfigurationParser.java
* /opt/cola/permits/1135872744_1613620816.93/0/ehcache-xml-3-8-1-sources-1-jar/org/ehcache/xml/service/DefaultSizeOfEngineConfigurationParser.java
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* /opt/cola/permits/1135872744_1613620816.93/0/ehcache-xml-3-8-1-sources-1-

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* /opt/cola/permits/1135872744_1613620816.93/0/ehcache-xml-3-8-1-sources-1-jar/org/ehcache/xml/provider/SimpleCoreServiceCreationConfigurationParser.java
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* /opt/cola/permits/1135872744_1613620816.93/0/ehcache-xml-3-8-1-sources-1-jar/org/ehcache/xml/ServiceConfigurationParser.java
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* /opt/cola/permits/1135872744_1613620816.93/0/ehcache-xml-3-8-1-sources-1-jar/org/ehcache/xml/provider/CacheEventDispatcherFactoryConfigurationParser.java

1.439 jakarta-annotation-api 1.3.5

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* https://github.com/eclipse-ee4j/common-annotations-api

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* /opt/cola/permits/1135872409_1613620769.24/0/ehcache-3-8-1-sources-1-jar/META-INF/maven/org.ehcache.modules/ehcache-core/pom.xml
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org.ehcache.jsr107.internal.Jsr107CacheConfigurationParser

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

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Found in path(s):
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/spi/time/package-info.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/store/StoreSupport.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/statistics/TierOperationOutcomes.java
*
 /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/spi/store/AbstractWrapperStoreProvider.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/spi/store/events/StoreEventFilter.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/spi/time/TimeSourceService.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/statistics/StoreOperationOutcomes.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/CacheConfigurationProperty.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/exceptions/StorePassThroughException.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/config/package-info.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/InternalRuntimeConfiguration.java
*
 /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/spi/store/tiering/LowerCachingTier.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/spi/service/CacheManagerProviderService.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/HumanReadable.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/spi/time/TickingTimeSource.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/spi/store/Store.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/internal/resilience/ThrowingResilienceStrategy.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/osgi/SafeOsgi.java
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/opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/DefaultCacheManagerProviderService.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/spi/store/heap/SizeOfEngine.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/statistics/ValueStatistic.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/spi/service/StatisticsService.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/StatusTransitioner.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/config/DefaultConfiguration.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/spi/LifeCycled.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/statistics/DefaultTierStatistics.java
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/opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/spi/store/events/StoreEvent.java
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* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/spi/time/SystemTimeSource.java
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* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/statistics/Jsr107LatencyMonitor.java
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/opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/events/CacheEventDispatcherFactory.java
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/opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/exceptions/ExceptionFactory.java
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* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/statistics/DefaultStatisticsServiceFactory.java
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* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/spi/store/tiering/CachingTier.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/package-info.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/spi/package-info.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/spi/store/events/StoreEventListener.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/statistics/LowerCachingTierOperationsOutcome.java
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/opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/events/EventListenerWrapper.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/config/CoreConfigurationBuilder.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/spi/time/TimeSource.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/statistics/DelegatedMappedOperationStatistics.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/statistics/ChainedObserver.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/statistics/CacheStatistics.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/spi/ServiceLocator.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-

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/opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/statistics/OperationStatistic.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/statistics/SourceStatistic.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/PersistentUserManagedEhcache.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/spi/service/FileBasedPersistenceContext.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/events/StoreEventSink.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/statistics/BulkOps.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/spi/LifeCycledAdapter.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/CacheConfigurationChangeEvent.java
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/opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/util/ByteBufferInputStream.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/statistics/DefaultCacheStatistics.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/spi/store/tiering/package-info.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/spi/service/ServiceUtils.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/InternalStatus.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/spi/store/events/StoreEventSource.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/statistics/LatencyHistogramConfiguration.java
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/opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/config/store/package-info.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/statistics/DefaultStatisticsService.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/events/CacheEventListenerProvider.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/config/store/StoreEventSourceConfiguration.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-jar/org/ehcache/core/spi/store/heap/SizeOfEngineProvider.java
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1.445 x-text 0.3.3

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1.446 net-tools 2.0-0.52.20160912git.el8

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1.447 libnetfilter-cthelper 1.0.0-15.el8

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1.448 zap 1.10.0

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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Validator.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/CascadableDescriptor.java
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 /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ExecutableDescriptor.java
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 /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/MethodDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/package-info.java
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1.450 asm 3.1

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* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/MethodVisitor.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/Item.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/JumpInsnNode.java
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/opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/Attribute.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-
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* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-
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* /opt/cola/permits/1135907460_1613628459.33/0/asm-7-3-1-sources-2-jar/org/objectweb/asm/FieldVisitor.java
* /opt/cola/permits/1135907460_1613628459.33/0/asm-7-3-1-sources-2-jar/org/objectweb/asm/Edge.java
* /opt/cola/permits/1135907460_1613628459.33/0/asm-7-3-1-sources-2-jar/org/objectweb/asm/Handler.java
* /opt/cola/permits/1135907460_1613628459.33/0/asm-7-3-1-sources-2-jar/org/objectweb/asm/Constants.java
* /opt/cola/permits/1135907460_1613628459.33/0/asm-7-3-1-sources-2-jar/org/objectweb/asm/RecordComponentWriter.java
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* /opt/cola/permits/1135907460_1613628459.33/0/asm-7-3-1-sources-2-jar/org/objectweb/asm/ClassVisitor.java
* /opt/cola/permits/1135907460_1613628459.33/0/asm-7-3-1-sources-2-jar/org/objectweb/asm/MethodVisitor.java
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* /opt/cola/permits/1135907460_1613628459.33/0/asm-7-3-1-sources-2-jar/org/objectweb/asm/ByteVector.java
* /opt/cola/permits/1135907460_1613628459.33/0/asm-7-3-1-sources-2-jar/org/objectweb/asm/TypeReference.java
* /opt/cola/permits/1135907460_1613628459.33/0/asm-7-3-1-sources-2-jar/org/objectweb/asm/ClassTooLargeException.java
* /opt/cola/permits/1135907460_1613628459.33/0/asm-7-3-1-sources-2-jar/org/objectweb/asm/TypePath.java
* /opt/cola/permits/1135907460_1613628459.33/0/asm-7-3-1-sources-2-jar/org/objectweb/asm/FieldWriter.java
* /opt/cola/permits/1135907460_1613628459.33/0/asm-7-3-1-sources-2-jar/org/objectweb/asm/SymbolTable.java
* /opt/cola/permits/1135907460_1613628459.33/0/asm-7-3-1-sources-2-jar/org/objectweb/asm/AnnotationWriter.java
* /opt/cola/permits/1135907460_1613628459.33/0/asm-7-3-1-sources-2-jar/org/objectweb/asm/AnnotationVisitor.java
* /opt/cola/permits/1135907460_1613628459.33/0/asm-7-3-1-sources-2-jar/org/objectweb/asm/ClassWriter.java
* /opt/cola/permits/1135907460_1613628459.33/0/asm-7-3-1-sources-2-jar/org/objectweb/asm/ConstantDynamic.java
* /opt/cola/permits/1135907460_1613628459.33/0/asm-7-3-1-sources-2-jar/org/objectweb/asm/ModuleWriter.java
* /opt/cola/permits/1135907460_1613628459.33/0/asm-7-3-1-sources-2-jar/org/objectweb/asm/CurrentFrame.java
* /opt/cola/permits/1135907460_1613628459.33/0/asm-7-3-1-sources-2-jar/org/objectweb/asm/ModuleVisitor.java
* /opt/cola/permits/1135907460_1613628459.33/0/asm-7-3-1-sources-2-jar/org/objectweb/asm/Opcodes.java
* /opt/cola/permits/1135907460_1613628459.33/0/asm-7-3-1-sources-2-jar/org/objectweb/asm/signature/SignatureVisitor.java
* /opt/cola/permits/1135907460_1613628459.33/0/asm-7-3-1-sources-2-jar/org/objectweb/asm/Attribute.java
* /opt/cola/permits/1135907460_1613628459.33/0/asm-7-3-1-sources-2-jar/org/objectweb/asm/MethodWriter.java
* /opt/cola/permits/1135907460_1613628459.33/0/asm-7-3-1-sources-2-jar/org/objectweb/asm/Handle.java

*
 /opt/cola/permits/1135907460_1613628459.33/0/asm-7-3-1-sources-2-jar/org/objectweb/asm/MethodTooLargeException.java
* /opt/cola/permits/1135907460_1613628459.33/0/asm-7-3-1-sources-2-jar/org/objectweb/asm/signature/SignatureReader.java
* /opt/cola/permits/1135907460_1613628459.33/0/asm-7-3-1-sources-2-jar/org/objectweb/asm/Context.java
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* /opt/cola/permits/1135907460_1613628459.33/0/asm-7-3-1-sources-2-jar/org/objectweb/asm/package.html

1.457 asm-tree 7.3.1

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* /opt/cola/permits/1135907466_1613628634.84/0/asm-tree-7-3-1-sources-1-jar/org/objectweb/asm/tree/ParameterNode.java
* /opt/cola/permits/1135907466_1613628634.84/0/asm-tree-7-3-1-sources-1-jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java
* /opt/cola/permits/1135907466_1613628634.84/0/asm-tree-7-3-1-sources-1-jar/org/objectweb/asm/tree/AnnotationNode.java
* /opt/cola/permits/1135907466_1613628634.84/0/asm-tree-7-3-1-sources-1-jar/org/objectweb/asm/tree/InvokeDynamicInsnNode.java
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* /opt/cola/permits/1135907466_1613628634.84/0/asm-tree-7-3-1-sources-1-jar/org/objectweb/asm/tree/InsnList.java
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* /opt/cola/permits/1135907466_1613628634.84/0/asm-tree-7-3-1-sources-1-jar/org/objectweb/asm/tree/ModuleOpenNode.java
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* /opt/cola/permits/1135907466_1613628634.84/0/asm-tree-7-3-1-sources-1-jar/org/objectweb/asm/tree/MethodInsnNode.java
* /opt/cola/permits/1135907466_1613628634.84/0/asm-tree-7-3-1-sources-1-jar/org/objectweb/asm/tree/TypeAnnotationNode.java
* /opt/cola/permits/1135907466_1613628634.84/0/asm-tree-7-3-1-sources-1-jar/org/objectweb/asm/tree/ModuleNode.java
* /opt/cola/permits/1135907466_1613628634.84/0/asm-tree-7-3-1-sources-1-jar/org/objectweb/asm/tree/InnerClassNode.java
* /opt/cola/permits/1135907466_1613628634.84/0/asm-tree-7-3-1-sources-1-

jar/org/objectweb/asm/tree/LocalVariableNode.java
* /opt/cola/permits/1135907466_1613628634.84/0/asm-tree-7-3-1-sources-1-jar/org/objectweb/asm/tree/LdcInsnNode.java
*
/opt/cola/permits/1135907466_1613628634.84/0/asm-tree-7-3-1-sources-1-jar/org/objectweb/asm/tree/TryCatchBlockNode.java
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* /opt/cola/permits/1135907466_1613628634.84/0/asm-tree-7-3-1-sources-1-jar/org/objectweb/asm/tree/VarInsnNode.java
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* /opt/cola/permits/1135907466_1613628634.84/0/asm-tree-7-3-1-sources-1-jar/org/objectweb/asm/tree/ModuleRequireNode.java
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* /opt/cola/permits/1135907466_1613628634.84/0/asm-tree-7-3-1-sources-1-jar/org/objectweb/asm/tree/ClassNode.java
* /opt/cola/permits/1135907466_1613628634.84/0/asm-tree-7-3-1-sources-1-jar/org/objectweb/asm/tree/MethodNode.java
* /opt/cola/permits/1135907466_1613628634.84/0/asm-tree-7-3-1-sources-1-jar/org/objectweb/asm/tree/ModuleExportNode.java
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/**
  * Constructs a new {@link RecordComponentNode}. Subclasses must not use this constructor.
  * Instead, they must use the {@link #RecordComponentNode(int, int, String, String, String)}
  * version.
  *
  * @param access the record component access
 flags (see {@link org.objectweb.asm.Opcodes}). The
  *   only valid value is {@link Opcodes#ACC_DEPRECATED}.
  * @param name the record component name.
  * @param descriptor the record component descriptor (see {@link org.objectweb.asm.Type}).
  * @param signature the record component signature.
  * @throws IllegalStateException If a subclass calls this constructor.
  * @deprecated this API is experimental.
  */

Found in path(s):

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1.458 asm-commons 7.3.1

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/**
  * Constructs a new {@link LocalVariablesSorter}. <i>Subclasses must not use this constructor</i>.
  * Instead, they must use the {@link #LocalVariablesSorter(int, int, String, MethodVisitor)}
  * version.
  *
  * @param access access flags of the adapted
 method.
  * @param descriptor the method's descriptor (see {@link Type}).
  * @param methodVisitor the method visitor to which this adapter delegates calls.
  * @throws IllegalStateException if a subclass calls this constructor.
  */
```

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/**
  * Constructs a new {@link SerialVersionUIDAdder}. Subclasses must not use this
  * constructor. Instead, they must use the {@link #SerialVersionUIDAdder(int, ClassVisitor)}
  * version.
  *
  * @param classVisitor a {@link ClassVisitor} to which
 this visitor will delegate calls.
  * @throws IllegalStateException If a subclass calls this constructor.
  */

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/**
  * Constructs a new {@link GeneratorAdapter}. Subclasses must not use this constructor.
  * Instead, they must use the {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
  * version.
  *
  * @param methodVisitor the method visitor
 to which this adapter delegates calls.
  * @param access the method's access flags (see {@link Opcodes}).
  * @param name the method's name.
  * @param descriptor the method's descriptor (see {@link Type}).
  * @throws IllegalStateException if a subclass calls this constructor.
  */

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* /opt/cola/permits/1135907511_1613628615.48/0/asm-commons-7-3-1-sources-1-jar/org/objectweb/asm/commons/SignatureRemapper.java
* /opt/cola/permits/1135907511_1613628615.48/0/asm-commons-7-3-1-sources-1-jar/org/objectweb/asm/commons/Method.java
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* /opt/cola/permits/1135907511_1613628615.48/0/asm-commons-7-3-1-sources-1-jar/org/objectweb/asm/commons/ModuleHashesAttribute.java
* /opt/cola/permits/1135907511_1613628615.48/0/asm-commons-7-3-1-sources-1-jar/org/objectweb/asm/commons/InstructionAdapter.java
* /opt/cola/permits/1135907511_1613628615.48/0/asm-commons-7-3-1-sources-1-jar/org/objectweb/asm/commons/JSRInlinerAdapter.java
*
/opt/cola/permits/1135907511_1613628615.48/0/asm-commons-7-3-1-sources-1-jar/org/objectweb/asm/commons/TryCatchBlockSorter.java
* /opt/cola/permits/1135907511_1613628615.48/0/asm-commons-7-3-1-sources-1-jar/org/objectweb/asm/commons/ModuleRemapper.java
* /opt/cola/permits/1135907511_1613628615.48/0/asm-commons-7-3-1-sources-1-jar/org/objectweb/asm/commons/RecordComponentRemapper.java

1.459 jakarta-servlet-api 4.0.4

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```

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 * version.
 */
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  * version.
  */
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1.461 jakarta-websocket-api 1.1.2

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1.465 cdi-api 2.0.SP1

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1.466 stax 3.1.4

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1.468 commons-lang3 2.5

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1.469 go-yaml 2.4.0

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1.481 jakarta-inject 2.6.1

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* https://github.com/eclipse-ee4j/glassfish-hk2
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1.482 asm 8.0.1

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1.483 javax-jms-api 2.0.1

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1.485 attoparser 2.0.5.RELEASE

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1.487 thymeleaf-extras-java8time 3.0.4.RELEASE

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1.490 findutils 4.8.0-1

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1.491 debianutils 4.11.2

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mgo - MongoDB driver for Go

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1.500 ehcache 2.6.11

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1.505 aspect-j 1.8.4

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1.527 source-map 2.1.3+incompatible

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1.528 thrift 0.14.0

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compiler/cpp/src/generate/t_erl_generator.cc
compiler/cpp/src/generate/t_hs_generator.cc
compiler/cpp/src/generate/t_java_generator.cc
compiler/cpp/src/generate/t_ocaml_generator.cc
compiler/cpp/src/generate/t_perl_generator.cc
compiler/cpp/src/generate/t_php_generator.cc
compiler/cpp/src/generate/t_py_generator.cc
compiler/cpp/src/generate/t_rb_generator.cc
compiler/cpp/src/generate/t_st_generator.cc
compiler/cpp/src/generate/t_xsd_generator.cc
compiler/cpp/src/main.cc
compiler/cpp/src/parse/t_field.h
compiler/cpp/src/parse/t_program.h
compiler/cpp/src/platform.h
compiler/cpp/src/thriftl.ll
compiler/cpp/src/thrifty.yy
lib/netstd/src/Protocol/TBinaryProtocol.cs
lib/netstd/src/Protocol/TField.cs
lib/netstd/src/Protocol/TList.cs
lib/netstd/src/Protocol/TMap.cs
lib/netstd/src/Protocol/TMessage.cs
lib/netstd/src/Protocol/TMessageType.cs
lib/netstd/src/Protocol/TProtocol.cs
lib/netstd/src/Protocol/TProtocolException.cs
lib/netstd/src/Protocol/TProtocolFactory.cs
lib/netstd/src/Protocol/TProtocolUtil.cs
lib/netstd/src/Protocol/TSet.cs
lib/netstd/src/Protocol/TStruct.cs
lib/netstd/src/Protocol/TType.cs
lib/netstd/src/Server/TServer.cs
lib/netstd/src/Server/TSimpleServer.cs

lib/netstd/src/Server/TThreadPoolServer.cs
lib/netstd/src/TApplicationException.cs
lib/netstd/src/Thrift.csproj
lib/netstd/src/Thrift.sln
lib/netstd/src/TProcessor.cs
lib/netstd/src/Transport/TServerSocket.cs
lib/netstd/src/Transport/TServerTransport.cs
lib/netstd/src/Transport/TSocket.cs
lib/netstd/src/Transport/TStreamTransport.cs
lib/netstd/src/Transport/TTransport.cs
lib/netstd/src/Transport/TTransportException.cs
lib/netstd/src/Transport/TTransportFactory.cs
lib/netstd/ThriftMSBuildTask/Properties/AssemblyInfo.cs
lib/netstd/ThriftMSBuildTask/ThriftBuild.cs
lib/netstd/ThriftMSBuildTask/ThriftMSBuildTask.csproj
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test/OptionalRequiredTest.cpp
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lib/erl/src/Makefile.am

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*/
```

(By Douglas Crockford <douglas@crockford.com>)

For lib/cpp/src/thrift/windows/SocketPair.cpp

```
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For lib/py/compat/win32/stdint.h

```
// ISO C9x  compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
```

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1.529 hawtbuf 1.11

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* /opt/cola/permits/1145056900_1618227567.25/0/hawtbuf-1-11-sources-6-jar/org/fusesource/hawtbuf/codec/FixedBufferCodec.java
* /opt/cola/permits/1145056900_1618227567.25/0/hawtbuf-1-11-sources-6-jar/org/fusesource/hawtbuf/DataByteArrayInputStream.java
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* /opt/cola/permits/1145056900_1618227567.25/0/hawtbuf-1-11-sources-6-jar/org/fusesource/hawtbuf/codec/VariableCodec.java
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* /opt/cola/permits/1145056900_1618227567.25/0/hawtbuf-1-11-sources-6-jar/org/fusesource/hawtbuf/codec/VarLongCodec.java
* /opt/cola/permits/1145056900_1618227567.25/0/hawtbuf-1-11-sources-6-jar/org/fusesource/hawtbuf/BufferInputStream.java
* /opt/cola/permits/1145056900_1618227567.25/0/hawtbuf-1-11-sources-6-jar/org/fusesource/hawtbuf/codec/VarIntegerCodec.java
* /opt/cola/permits/1145056900_1618227567.25/0/hawtbuf-1-11-sources-6-jar/org/fusesource/hawtbuf/ByteArrayOutputStream.java
* /opt/cola/permits/1145056900_1618227567.25/0/hawtbuf-1-11-sources-6-jar/org/fusesource/hawtbuf/codec/VarSignedLongCodec.java
* /opt/cola/permits/1145056900_1618227567.25/0/hawtbuf-1-11-sources-6-jar/org/fusesource/hawtbuf/UTF8Buffer.java
* /opt/cola/permits/1145056900_1618227567.25/0/hawtbuf-1-11-sources-6-jar/org/fusesource/hawtbuf/HexSupport.java
*
/opt/cola/permits/1145056900_1618227567.25/0/hawtbuf-1-11-sources-6-jar/org/fusesource/hawtbuf/codec/VarSignedIntegerCodec.java
* /opt/cola/permits/1145056900_1618227567.25/0/hawtbuf-1-11-sources-6-jar/org/fusesource/hawtbuf/codec/UTF8BufferCodec.java
* /opt/cola/permits/1145056900_1618227567.25/0/hawtbuf-1-11-sources-6-jar/org/fusesource/hawtbuf/BufferEditor.java
* /opt/cola/permits/1145056900_1618227567.25/0/hawtbuf-1-11-sources-6-jar/org/fusesource/hawtbuf/Buffer.java
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* /opt/cola/permits/1145056900_1618227567.25/0/hawtbuf-1-11-sources-6-jar/org/fusesource/hawtbuf/DataByteArrayOutputStream.java
* /opt/cola/permits/1145056900_1618227567.25/0/hawtbuf-1-11-sources-6-jar/org/fusesource/hawtbuf/codec/BytesCodec.java
* /opt/cola/permits/1145056900_1618227567.25/0/hawtbuf-1-11-sources-6-jar/org/fusesource/hawtbuf/BufferOutputStream.java
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1.530 apiguardian-api 1.1.0

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1.531 jctools-core 3.1.0

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1.532 minlog 1.3.0

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1.533 asm 9.1

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/opt/cola/permits/1146079232_1616457494.45/0/asm-9-1-sources-
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* /opt/cola/permits/1149087160_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/TemplateViewRouteImpl.java
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* /opt/cola/permits/1149087160_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/resource/InputStreamResource.java
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* /opt/cola/permits/1149087160_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/webserver/serialization/InputStreamSerializer.java
* /opt/cola/permits/1149087160_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/staticfiles/ServletStaticFiles.java
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* /opt/cola/permits/1149087160_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/webserver/RequestWrapper.java
* /opt/cola/permits/1149087160_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/utils/SparkUtils.java
* /opt/cola/permits/1149087160_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/HaltException.java
* /opt/cola/permits/1149087160_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/Request.java
* /opt/cola/permits/1149087160_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/webserver/JettyHandler.java
* /opt/cola/permits/1149087160_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/RequestResponseFactory.java
* /opt/cola/permits/1149087160_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/webserver/ResponseWrapper.java
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* /opt/cola/permits/1149087160_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/webserver/NotConsumedException.java
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* /opt/cola/permits/1149087160_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/RouteImpl.java
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* /opt/cola/permits/1149087160_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/routematch/RouteMatch.java
* /opt/cola/permits/1149087160_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/route/RouteMatcherFactory.java
* /opt/cola/permits/1149087160_1617090613.34/0/spark-core-2-3-sources-1-

jar/spark/webserver/SparkServerFactory.java
*
/opt/cola/permits/1149087160_1617090613.34/0/spark-core-2-3-sources-1-jar/spark/Access.java

1.539 log4j-slf4j-impl 2.0.2

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jar/com/thoughtworks/paranamer/ParameterNamesNotFoundException.java
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jar/com/thoughtworks/paranamer/AdaptiveParanamer.java
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1.544 tablewriter 0.0.5

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1.550 x-time-rate 0.0.0-20180412165947-fbb02b2291d2

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1.551 capnslog 0.0.0-20160727233714-3ac0863d7acf

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1.552 gax-go 2.0.5

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1.553 x-time-rate 0.0.0-20210220033141-f8bda1e9f3ba

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1.554 python-consul 1.1.0

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1.555 strip-bom 4.0.0

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1.556 acorn-node 1.8.2

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1.557 acorn-walk 7.2.0

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1.558 css-tree 1.0.0-alpha.37

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1.559 clean-stack 2.2.0

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1.560 p-map 4.0.0

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1.561 strip-final-newline 2.0.0

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1.562 dir-glob 3.0.1

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1.564 reusify 1.0.4

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1.565 fill-range 7.0.1

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1.566 npm-run-path 4.0.1

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1.567 array-union 2.1.0

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1.568 chownr 2.0.0

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1.569 path-type 4.0.0

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1.570 is-number 7.0.0

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1.571 x-crypto 0.0.0-20200622213623-75b288015ac9

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1.572 jsonrpcserver 4.1.3

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1.573 kafkacat 1.5.0-r0

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librdkafka - Apache Kafka C driver library

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1.574 cdiff 1.0

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1.575 detect-port-alt 1.1.6

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1.576 is-generator-fn 2.1.0

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1.577 kleur 3.0.3

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1.578 @types/parse-json 4.0.0

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1.580 xz 4.999.9-0.3.beta.20091007git.el5

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1.584 libffi 3.3-6

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https://github.com/madler/zlib
http://zlib.net/zlib_license.html

/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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Martin Richards
23 February 2007
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  new XElement("p", "Text placed in the public domain by Moby Lexical Tools, 1992."),
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https://github.com/madler/zlib
http://zlib.net/zlib_license.html

/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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John R. Hauser
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https://github.com/santoshsahoo/nbench (mirror of the same code)

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```
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 <PropertyGroup>
   <OutputType>Exe</OutputType>
   <ApplicationManifest>App.manifest</ApplicationManifest>
 </PropertyGroup>
 <ItemGroup>
   <Compile Include="Program.cs" />
   <Compile Include="../../ServerContracts/Server.CoClasses.cs" />
   <Compile Include="../../ServerContracts/Server.Contracts.cs" />
   <Compile Include="../../ServerContracts/ServerGuids.cs" />
 </ItemGroup>
 <ItemGroup>
   <ProjectReference Include="../../NativeServer/CMakeLists.txt" />
   <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
 </ItemGroup>
</Project>
```

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1.592 babel-plugin-transform-react-remove-prop-types 0.4.24

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1.593 yocto-queue 0.1.0

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1.594 entities 2.2.0

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1.595 p-limit 3.1.0

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1.596 json-parse-even-better-errors 2.3.1

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1.597 xlrd 2.0.1

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1.598 leveldb 1.23

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1.599 audience-annotations 0.12.0

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* /opt/ws_local/PERMITS_SQL/1082517930_1597959663.43/0/springfox-spring-webmvc-3-0-0-sources-jar/springfox/documentation/spring/web/plugins/WebMvcRequestHandlerProvider.java

1.608 springfox-spring-webflux 3.0.0

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* /opt/ws_local/PERMITS_SQL/1082519010_1597959698.08/0/springfox-spring-webflux-3-0-0-sources-jar/springfox/documentation/spring/web/WebFluxObjectMapperConfigurer.java
* /opt/ws_local/PERMITS_SQL/1082519010_1597959698.08/0/springfox-spring-webflux-3-0-0-sources-jar/springfox/documentation/spring/web/WebFluxNameValueExpressionWrapper.java
*
 /opt/ws_local/PERMITS_SQL/1082519010_1597959698.08/0/springfox-spring-webflux-3-0-0-sources-jar/springfox/documentation/spring/web/WebFluxPatternsRequestConditionWrapper.java
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* /opt/ws_local/PERMITS_SQL/1082519010_1597959698.08/0/springfox-spring-webflux-3-0-0-sources-

jar/springfox/documentation/spring/web/plugins/WebFluxRequestHandlerProvider.java
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* /opt/ws_local/PERMITS_SQL/1082519010_1597959698.08/0/springfox-spring-webflux-3-0-0-sources-jar/springfox/documentation/spring/web/SpringfoxWebFluxConfiguration.java
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* /opt/ws_local/PERMITS_SQL/1082519010_1597959698.08/0/springfox-spring-webflux-3-0-0-sources-

jar/springfox/documentation/spring/web/WebFluxRequestHandler.java

1.609 jta 1.2

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* /opt/cola/permits/1163971045_1620934068.48/0/jta-1-2-sources-4-jar/org/atteo/moonshine/jta/JtaService.java

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* /opt/cola/permits/1163971045_1620934068.48/0/jta-1-2-sources-4-jar/org/atteo/moonshine/jta/Transaction.java

* /opt/cola/permits/1163971045_1620934068.48/0/jta-1-2-sources-4-jar/org/atteo/moonshine/jta/Transactional.java
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* /opt/cola/permits/1163971045_1620934068.48/0/jta-1-2-sources-4-
jar/org/atteo/moonshine/jta/JtaDataSourceWrapper.java
* /opt/cola/permits/1163971045_1620934068.48/0/jta-1-2-sources-4-
jar/org/atteo/moonshine/jta/JtaConnectionFactoryWrapper.java
* /opt/cola/permits/1163971045_1620934068.48/0/jta-1-2-sources-4-
jar/org/atteo/moonshine/jta/TransactionalService.java
*
 /opt/cola/permits/1163971045_1620934068.48/0/jta-1-2-sources-4-jar/org/atteo/moonshine/jta/PoolOptions.java
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* /opt/cola/permits/1163971045_1620934068.48/0/jta-1-2-sources-4-
jar/org/atteo/moonshine/jta/OptimisticLockExceptionPolicy.java

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* /opt/cola/permits/1163971045_1620934068.48/0/jta-1-2-sources-4-jar/org/atteo/moonshine/jta/TransactionalFilter.java

1.610 classgraph 4.8.83

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1.611 jta 1.3

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1.632 acorn-globals 6.0.0

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1.633 aria-query 4.2.2

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1.634 get-package-type 0.1.0

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1.637 @bcoe/v8-coverage 0.2.3

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1.650 sqlite 3.34.1-3

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1.652 gdbm 1.19-2

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1.653 type-check 0.4.0

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name: 'type-check'
version: '0.4.0'

author: 'George Zahariev <z@georgezahariev.com>'
description: 'type-check allows you to check the types of JavaScript values at runtime with a Haskell like type syntax.'
homepage: 'https://github.com/gkz/type-check'
keywords:
 'type'
 'check'
 'checking'
 'library'
files:
 'lib'
 'README.md'
 'LICENSE'
main: './lib/'

bugs: 'https://github.com/gkz/type-check/issues'
license: 'MIT'
engines:
 node: '>= 0.8.0'
repository:
 type: 'git'
 url: 'git://github.com/gkz/type-check.git'
scripts:
 test: "make test"

dependencies:
 'prelude-ls': '^1.2.1'

dev-dependencies:
 livescript: '^1.6.0'
 mocha: '^7.1.1'
 browserify: '^16.5.1'
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1.654 p-locate 5.0.0

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1.656 levn 0.4.1

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```
name: 'levn'
version: '0.4.1'

author: 'George Zahariev <z@georgezahariev.com>'
description: 'Light ECMAScript (JavaScript) Value Notation - human written, concise, typed, flexible'
homepage: 'https://github.com/gkz/levn'
keywords:
 'levn'
 'light'
 'ecmascript'
 'value'
 'notation'
 'json'
 'typed'
 'human'
 'concise'
 'typed'
 'flexible'
files:
 'lib'
 'README.md'
 'LICENSE'
main: './lib/'

bugs: 'https://github.com/gkz/levn/issues'
license: 'MIT'
engines:
 node: '>= 0.8.0'
repository:
 type: 'git'
 url: 'git://github.com/gkz/levn.git'
scripts:
 test: 'make test'
```

dependencies:
'prelude-ls': '^1.2.1'
'type-check': '~0.4.0'

dev-dependencies:
livescript: '^1.6.0'
mocha: '^7.1.1'
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1.657 find-up 5.0.0

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1.658 file-entry-cache 6.0.1

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1.659 optionator 0.9.1

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name: 'optionator'
version: '0.9.1'

author: 'George Zahariev <z@georgezahariev.com>'
description: 'option parsing and help generation'
homepage: 'https://github.com/gkz/optionator'

keywords:
 'options'
 'flags'
 'option parsing'
 'cli'
files:
 'lib'
 'README.md'
 'LICENSE'
main: './lib/'

bugs: 'https://github.com/gkz/optionator/issues'
license: 'MIT'
engines:
 node: '>= 0.8.0'
repository:
 type: 'git'
 url: 'git://github.com/gkz/optionator.git'
scripts:
 test: "make test"

dependencies:
 'prelude-ls': '^1.2.1'
 'deep-is': '^0.1.3'
 'word-wrap': '^1.2.3'
 'type-check': '^0.4.0'
 levn: '^0.4.1'
 'fast-levenshtein': '^2.0.6'

dev-dependencies:
 livescript: '^1.6.0'
 mocha: '^7.1.1'
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1.660 grapheme-splitter 1.0.4

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1.661 jsbn 1.1.0

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1.662 tr46 2.1.0

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1.663 http-proxy-agent 4.0.1

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1.664 tootallnate-once 1.1.2

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1.665 jakarta-ws-rs-api 3.0.0

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1.682 ehcache-client 3.8.1

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* /opt/cola/permits/1170796206_1622715558.6/0/ehcache-client-3-8-1-sources-
jar/org/ehcache/clustered/client/internal/lock/VoltronReadWriteLockEntityClientService.java
*
/opt/cola/permits/1170796206_1622715558.6/0/ehcache-client-3-8-1-sources-
jar/org/ehcache/clustered/client/internal/store/CommonServerStoreProxy.java
* /opt/cola/permits/1170796206_1622715558.6/0/ehcache-client-3-8-1-sources-
jar/org/ehcache/clustered/client/internal/service/ValueCodec.java
* /opt/cola/permits/1170796206_1622715558.6/0/ehcache-client-3-8-1-sources-
jar/org/ehcache/clustered/client/internal/store/ClusterTierUserData.java
* /opt/cola/permits/1170796206_1622715558.6/0/ehcache-client-3-8-1-sources-
jar/org/ehcache/clustered/client/config/builders/ServerSideConfigurationBuilder.java
* /opt/cola/permits/1170796206_1622715558.6/0/ehcache-client-3-8-1-sources-
jar/org/ehcache/clustered/client/internal/store/lock/LockingServerStoreProxyImpl.java
* /opt/cola/permits/1170796206_1622715558.6/0/ehcache-client-3-8-1-sources-
jar/org/ehcache/clustered/client/config/DedicatedClusteredResourcePool.java
* /opt/cola/permits/1170796206_1622715558.6/0/ehcache-client-3-8-1-sources-
jar/org/ehcache/clustered/client/internal/store/ClusteredValueHolder.java

*
/opt/cola/permits/1170796206_1622715558.6/0/ehcache-client-3-8-1-sources-jar/org/ehcache/clustered/client/internal/config/xml/ClusteringCacheManagerServiceConfigurationParser.java
* /opt/cola/permits/1170796206_1622715558.6/0/ehcache-client-3-8-1-sources-jar/org/ehcache/clustered/client/internal/loaderwriter/writebehind/ClusteredWriteBehindStoreProviderFactory.java
* /opt/cola/permits/1170796206_1622715558.6/0/ehcache-client-3-8-1-sources-jar/org/ehcache/clustered/client/internal/config/DedicatedClusteredResourcePoolImpl.java
* /opt/cola/permits/1170796206_1622715558.6/0/ehcache-client-3-8-1-sources-jar/org/ehcache/clustered/client/service/EntityService.java
* /opt/cola/permits/1170796206_1622715558.6/0/ehcache-client-3-8-1-sources-jar/org/ehcache/clustered/client/config/ClusteredStoreConfiguration.java
* /opt/cola/permits/1170796206_1622715558.6/0/ehcache-client-3-8-1-sources-jar/org/ehcache/clustered/client/internal/service/ClusterTierReleaseException.java
*
/opt/cola/permits/1170796206_1622715558.6/0/ehcache-client-3-8-1-sources-jar/org/ehcache/clustered/client/internal/config/xml/ClusteringCacheServiceConfigurationParser.java
* /opt/cola/permits/1170796206_1622715558.6/0/ehcache-client-3-8-1-sources-jar/org/ehcache/clustered/client/config/builders/ClusteringServiceConfigurationBuilder.java
* /opt/cola/permits/1170796206_1622715558.6/0/ehcache-client-3-8-1-sources-jar/org/ehcache/clustered/client/internal/store/ClusteredStoreProviderFactory.java
* /opt/cola/permits/1170796206_1622715558.6/0/ehcache-client-3-8-1-sources-jar/org/ehcache/clustered/client/internal/ClusterTierManagerClientEntity.java
* /opt/cola/permits/1170796206_1622715558.6/0/ehcache-client-3-8-1-sources-jar/org/ehcache/clustered/client/internal/store/operations/ExpiryChainResolver.java
* /opt/cola/permits/1170796206_1622715558.6/0/ehcache-client-3-8-1-sources-jar/org/ehcache/clustered/client/internal/store/InternalClusterTierClientEntity.java
*
/opt/cola/permits/1170796206_1622715558.6/0/ehcache-client-3-8-1-sources-jar/org/ehcache/clustered/client/internal/config/xml/ClusteredCacheConstants.java
* /opt/cola/permits/1170796206_1622715558.6/0/ehcache-client-3-8-1-sources-jar/org/ehcache/clustered/client/service/ClientEntityFactory.java
* /opt/cola/permits/1170796206_1622715558.6/0/ehcache-client-3-8-1-sources-jar/org/ehcache/clustered/client/internal/service/DefaultClusteringService.java
* /opt/cola/permits/1170796206_1622715558.6/0/ehcache-client-3-8-1-sources-jar/org/ehcache/clustered/client/internal/loaderwriter/DelegatingLoaderWriterStoreProvider.java
* /opt/cola/permits/1170796206_1622715558.6/0/ehcache-client-3-8-1-sources-jar/org/ehcache/clustered/client/internal/loaderwriter/DelegatingLoaderWriterStoreProviderFactory.java

1.683 ldaptive-unboundid 1.2.4

1.683.1 Available under license :

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Manifest-Version: 1.0
Bundle-Description: Ldaptive unboundid provider
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt, http://www.gnu.org/licenses/lgpl-3.0.txt

Bundle-SymbolicName: org.ldaptive.unboundid
Built-By: dfisher
Bnd-LastModified: 1547674860750
Bundle-ManifestVersion: 2
Import-Package: com.unboundid.asn1;version="[4.0,5)",com.unboundid.lda
p.sdk;version="[4.0,5)",com.unboundid.ldap.sdk.controls;version="[4.0
,5)",com.unboundid.ldap.sdk.extensions;version="[4.0,5)",com.unboundi
d.util.ssl;version="[4.0,5)",javax.net,javax.net.ssl,org.ldaptive;ver
sion="[1.2,2)",org.ldaptive.async;version="[1.2,2)",org.ldaptive.cont
rol;version="[1.2,2)",org.ldaptive.extended;version="[1.2,2)",org.lda
ptive.intermediate;version="[1.2,2)",org.ldaptive.provider;version="[
1.2,2)",org.ldaptive.sasl;version="[1.2,2)",org.ldaptive.ssl;version=
"[1.2,2)",org.slf4j;version="[1.7,2)"
Require-Capability:
 osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-4.1.0.201810181252
Originally-Created-By: Apache Maven Bundle Plugin
Export-Package: org.ldaptive.provider.unboundid;version="1.2.4";uses:=
"com.unboundid.ldap.sdk,com.unboundid.ldap.sdk.controls,javax.net,jav
ax.net.ssl,org.ldaptive,org.ldaptive.async,org.ldaptive.control,org.l
daptive.extended,org.ldaptive.provider,org.ldaptive.sasl,org.slf4j"
Bundle-Name: LDAPTIVE UNBOUNDID PROVIDER
Bundle-Version: 1.2.4
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_191

Found in path(s):
* /opt/cola/permits/1170796078_1622704545.7/0/ldaptive-unboundid-1-2-4-jar/META-INF/MANIFEST.MF

1.684 semver4j 3.1.0

1.684.1 Available under license :

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```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>

  <groupId>com.vdurmont</groupId>
  <artifactId>semver4j</artifactId>
  <version>3.1.0</version>
  <packaging>jar</packaging>

  <name>semver4j</name>
  <url>https://github.com/vdurmont/semver4j</url>
  <description>Semantic versioning for Java apps.</description>
```

```
<scm>
    <connection>scm:git:git@github.com:vdurmont/semver4j.git</connection>
    <developerConnection>scm:git:git@github.com:vdurmont/semver4j.git</developerConnection>
    <url>git@github.com:vdurmont/semver4j.git</url>
</scm>

<developers>
    <developer>
        <name>Vincent DURMONT</name>
        <email>vdurmont@gmail.com</email>
        <url>http://www.vdurmont.com</url>
     </developer>
</developers>

<licenses>
    <license>
        <name>The MIT License</name>
        <url>http://www.opensource.org/licenses/mit-license.php</url>
        <distribution>repo</distribution>
    </license>
</licenses>

<properties>
    <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
</properties>

<dependencies>
    <dependency>
        <groupId>junit</groupId>
        <artifactId>junit</artifactId>
        <version>4.12</version>
        <scope>test</scope>
    </dependency>
    <dependency>
        <groupId>org.mockito</groupId>
        <artifactId>mockito-all</artifactId>
        <version>1.10.19</version>
        <scope>test</scope>
    </dependency>
</dependencies>

<build>
    <finalName>${project.artifactId}</finalName>
    <plugins>
        <plugin>
            <artifactId>maven-compiler-plugin</artifactId>
             <version>3.1</version>
            <configuration>
```

```
            <source>1.7</source>
            <target>1.7</target>
            <testSource>1.7</testSource>
            <testTarget>1.7</testTarget>
          </configuration>
        </plugin>
      </plugins>
      <pluginManagement>
        <plugins>
          <plugin>
            <groupId>org.codehaus.mojo</groupId>
            <artifactId>cobertura-maven-plugin</artifactId>
            <version>2.7</version>
            <configuration>
              <format>xml</format>
              <maxmem>256m</maxmem>
              <aggregate>true</aggregate>
            </configuration>
          </plugin>
          <plugin>
            <groupId>org.eluder.coveralls</groupId>
            <artifactId>coveralls-maven-plugin</artifactId>
            <version>3.2.1</version>
           </plugin>
        </plugins>
      </pluginManagement>
    </build>

    <profiles>
      <profile>
        <id>release</id>
        <build>
          <plugins>
            <plugin>
              <groupId>org.apache.maven.plugins</groupId>
              <artifactId>maven-source-plugin</artifactId>
              <version>2.3</version>
              <executions>
                <execution>
                  <id>attach-sources</id>
                  <goals>
                    <goal>jar-no-fork</goal>
                  </goals>
                </execution>
              </executions>
            </plugin>
            <plugin>
              <groupId>org.apache.maven.plugins</groupId>
```

```
                <artifactId>maven-javadoc-plugin</artifactId>

    <version>2.9.1</version>
                <executions>
                  <execution>
                    <id>attach-javadocs</id>
                    <goals>
                      <goal>jar</goal>
                    </goals>
                  </execution>
                </executions>
              </plugin>
              <plugin>
                <groupId>org.apache.maven.plugins</groupId>
                <artifactId>maven-gpg-plugin</artifactId>
                <version>1.5</version>
                <executions>
                  <execution>
                    <id>sign-artifacts</id>
                    <phase>verify</phase>
                    <goals>
                      <goal>sign</goal>
                    </goals>
                  </execution>

   </executions>
              </plugin>
              <plugin>
                <groupId>org.sonatype.plugins</groupId>
                <artifactId>nexus-staging-maven-plugin</artifactId>
                <version>1.6.4</version>
                <extensions>true</extensions>
                <configuration>
                  <serverId>ossrh</serverId>
                  <nexusUrl>https://oss.sonatype.org/</nexusUrl>
                  <autoReleaseAfterClose>true</autoReleaseAfterClose>
                </configuration>
              </plugin>
            </plugins>
        </build>
    </profile>
</profiles>

<distributionManagement>
    <snapshotRepository>
        <id>ossrh</id>
        <name>Sonatype Nexus Snapshots</name>
        <url>https://oss.sonatype.org/content/repositories/snapshots/</url>
```

```
      </snapshotRepository>
      <repository>

    <id>ossrh</id>
        <name>Nexus Release Repository</name>
        <url>https://oss.sonatype.org/service/local/staging/deploy/maven2/</url>
      </repository>
  </distributionManagement>
</project>
```

Found in path(s):
* /opt/cola/permits/1170796343_1622704550.65/0/semver4j-3-1-0-jar/META-INF/maven/com.vdurmont/semver4j/pom.xml

1.685 gzip-size 6.0.0

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1.686 postcss-modules-local-by-default 4.0.0

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1.687 csso 4.2.0

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1.688 postcss-modules-extract-imports 3.0.0

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1.689 adjust-sourcemap-loader 4.0.0

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1.690 resolve-url-loader 4.0.0

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1.691 postcss-modules-scope 3.0.0

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1.692 promise-retry 2.0.1

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1.693 err-code 2.0.3

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1.694 libpcap 1.9.1-5.el8

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1.695 uuid-random-benchmark 1.0.0

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1.696 uuid-random 1.3.2

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1.697 preprocess 3.2.0

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1.698 xregexp 3.1.0

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1.699 jakarta-jws-api 3.0.0

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```
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
 @echo " MKDIR pic"
 @mkdir -p pic
```

```
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:  $(BSD_LIB)

$(BSD_LIB): $(OBJS)
 (cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
 $(MV) pic/$(BSD_LIB) .
 $(RM) -f ../$(BSD_LIB)
 (cd ..; $(LN) $(LINK_BUILD_FLAGS) \
  `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
 @echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
 @$(INSTALL_PROGRAM) $(BSD_LIB) \
  $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
 @-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
 $(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
 $(RM)
 -rf pic
 $(RM) -f $(BSD_LIB)
 $(RM) -f ../$(BSD_LIB)
```

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This is the Debian GNU/Linux prepackaged version of the translation
files of the EXT2 file system utilities. The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card
<card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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Index: tdbsa/tdb.c
==========
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
 /*
-   Unix SMB/CIFS implementation.
+   trivial database library - standalone version

-   trivial database library - private includes
-
-   Copyright (C) Andrew Tridgell   2005
+   Copyright (C) Andrew Tridgell   1999-2005
+   Copyright (C) Jeremy Allison   2000-2006
+   Copyright (C) Paul `Rusty' Russell   2000

    ** NOTE! The following LGPL license applies to the tdb
    ** library. This does NOT imply that all of Samba is released
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Gadi Oxman, August 1995

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Theodore Ts'o
23-June-2007

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This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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* /opt/cola/permits/1177285135_1625096818.12/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/metrics/dropwizard/CodahaleMetricsTrackerFactory.java
* /opt/cola/permits/1177285135_1625096818.12/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/HikariConfigMXBean.java
*
 /opt/cola/permits/1177285135_1625096818.12/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/util/UtilityElf.java
* /opt/cola/permits/1177285135_1625096818.12/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/HikariPoolMXBean.java
* /opt/cola/permits/1177285135_1625096818.12/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/metrics/prometheus/PrometheusHistogramMetricsTracker.java
* /opt/cola/permits/1177285135_1625096818.12/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/hibernate/HikariConnectionProvider.java
* /opt/cola/permits/1177285135_1625096818.12/0/hikaricp-4-0-3-sources-

jar/com/zaxxer/hikari/metrics/prometheus/PrometheusMetricsTracker.java
* /opt/cola/permits/1177285135_1625096818.12/0/hikaricp-4-0-3-sources-
jar/com/zaxxer/hikari/pool/ProxyPreparedStatement.java
* /opt/cola/permits/1177285135_1625096818.12/0/hikaricp-4-0-3-sources-
jar/com/zaxxer/hikari/HikariDataSource.java
* /opt/cola/permits/1177285135_1625096818.12/0/hikaricp-4-0-3-sources-
jar/com/zaxxer/hikari/pool/ProxyCallableStatement.java
*
/opt/cola/permits/1177285135_1625096818.12/0/hikaricp-4-0-3-sources-
jar/com/zaxxer/hikari/hibernate/HikariConfigurationUtil.java
* /opt/cola/permits/1177285135_1625096818.12/0/hikaricp-4-0-3-sources-
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jar/com/zaxxer/hikari/util/ClockSource.java
* /opt/cola/permits/1177285135_1625096818.12/0/hikaricp-4-0-3-sources-
jar/com/zaxxer/hikari/metrics/PoolStats.java
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* /opt/cola/permits/1177285135_1625096818.12/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/metrics/MetricsTrackerFactory.java
* /opt/cola/permits/1177285135_1625096818.12/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/metrics/dropwizard/CodaHaleMetricsTracker.java
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 /opt/cola/permits/1177285135_1625096818.12/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/metrics/MetricsTracker.java
* /opt/cola/permits/1177285135_1625096818.12/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/HikariJNDIFactory.java
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* /opt/cola/permits/1177285135_1625096818.12/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/pool/PoolEntry.java

1.710 swagger-annotations 1.5.20

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* /opt/cola/permits/1177939701_1625570671.31/0/swagger-annotations-1-5-20-sources-1-jar/io/swagger/annotations/ApiModel.java

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/opt/cola/permits/1177939701_1625570671.31/0/swagger-annotations-1-5-20-sources-1-jar/io/swagger/annotations/ExtensionProperty.java
* /opt/cola/permits/1177939701_1625570671.31/0/swagger-annotations-1-5-20-sources-1-jar/io/swagger/annotations/Example.java
* /opt/cola/permits/1177939701_1625570671.31/0/swagger-annotations-1-5-20-sources-1-jar/io/swagger/annotations/SwaggerDefinition.java
* /opt/cola/permits/1177939701_1625570671.31/0/swagger-annotations-1-5-20-sources-1-jar/io/swagger/annotations/License.java

1.711 swagger 1.5.20

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* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/ShortType.java
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* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/NonPositiveIntegerType.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/MinInclusiveFacet.java
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* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/datetime/Util.java
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* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/regexp/Token.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/regexp/ParseException.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/regexp/RegularExpression.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/regexp/Match.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/regexp/Op.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/regexp/REUtil.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/regexp/BMPattern.java

1.714 jopt-simple 5.0.4

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* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/AlternativeLongOptionSpec.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionParserState.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/UnconfiguredOptionException.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/AbstractOptionSpec.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionSpec.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/MethodInvokingValueConverter.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionalArgumentOptionSpec.java
*
/opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/util/DateConverter.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/util/RegexMatcher.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/ConstructorInvokingValueConverter.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionArgumentConversionException.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Classes.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/UnavailableOptionException.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionDescriptor.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/ValueConversionException.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionParser.java
*
/opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Reflection.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/UnrecognizedOptionException.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Messages.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/NoArgumentOptionSpec.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/ParserRules.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/RequiredArgumentOptionSpec.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/ArgumentList.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/ValueConverter.java
*

/opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/SimpleOptionNameMap.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/MultipleArgumentsForOptionException.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Row.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/NonOptionArgumentSpec.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionSpecBuilder.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/MissingRequiredOptionsException.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/util/KeyValuePair.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/AbbreviationMap.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Rows.java
*
/opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Columns.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/IllegalOptionSpecificationException.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Strings.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionMissingRequiredArgumentException.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionSet.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/ArgumentAcceptingOptionSpec.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/util/InetAddressConverter.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionException.java
*
/opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/BuiltinHelpFormatter.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionSpecTokenizer.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/ReflectionException.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/OptionNameMap.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/HelpFormatter.java

1.715 ognl 3.2.20

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* /opt/cola/permits/1178191123_1625603816.4/0/ognl-3-2-20-jar/META-INF/maven/ognl/ognl/pom.xml

1.716 jsonrepair 2.2.1

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1.717 opencensus 0.2.1

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1.718 libnettle6 3.7.3-1

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1.719 typetools 0.6.3

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* /opt/cola/permits/1181469849_1626465545.35/0/typetools-0-6-3-sources-jar/net/jodah/typetools/TypeResolver.java

1.720 commons-io 2.11.0

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1.721 icu 67.1-7

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```
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## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation
 rules
%.$(STATIC_O): $(srcdir)/%.c
 $(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
 $(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
 $(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
```

```
%.o: $(srcdir)/%.cpp
 $(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<


## Dependency rules
%.d: $(srcdir)/%.c
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.c) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.cc) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
 $(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
 $(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

##  Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup
```

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* /opt/cola/permits/1185279897_1627734845.86/0/disruptor-3-4-4-sources-jar/com/lmax/disruptor/ExceptionHandlers.java

1.725 apache-servicemix-bundles-javax-inject 1_3

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1.733 xtrans-dev 1.4.0-1

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1.750 schema-utils 3.1.1

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1.753 libgcrypt 1.8.7-6

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If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
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However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work
that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be

linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute
the object code for the work under the terms of Section 6.
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2)

will
operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least
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1.759 jaxb-core 3.0.2

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1.761 libfido2 1.6.0-2

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1.762 dotenv-expand 5.1.0

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1.764 @types/range-parser 1.2.4

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1.765 dotenv 10.0.0

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1.766 @types/qs 6.9.7

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1.767 sensible-utils 0.0.14

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1.768 whatwg-url 8.7.0

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1.769 lvm2 2.03.11-2.1

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1.775 cast 1.4.1

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1.785 mxparser 1.2.2

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/opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/LinkedListMultimap.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/Multimaps.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/NaturalOrdering.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/TreeMultiset.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/Multimap.java
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/opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/ForwardingMultiset.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/ImmutableList.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/Iterables.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/ComparatorOrdering.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/ReverseNaturalOrdering.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/SortedSetMultimap.java
*
/opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/ForwardingSet.java
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/AbstractMapBasedMultimap.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/AbstractMultiset.java

* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/ExplicitOrdering.java
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/MultimapBuilder.java
*
/opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/io/MoreFiles.java
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/hash/LittleEndianByteArray.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/hash/FarmHashFingerprint64.java
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/CombinedFuture.java
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/hash/MacHashFunction.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/io/ReaderInputStream.java
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/hash/AbstractHashFunction.java

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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/ForwardingLock.java
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/SimpleTimeLimiter.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/AbstractTransformFuture.java

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*
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/**
  * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}
  * key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy
  * version.
  *
  * @throws UnsupportedOperationException always
  * @deprecated <b>Pass a key of type {@code Comparable}
```

to use {@link
 * ImmutableSortedMap#of(Comparable, Object)}.
 */

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*
 /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/net/InetAddresses.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/thirdparty/publicsuffix/TrieParser.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-

jar/com/datastax/oss/driver/shaded/guava/common/base/Converter.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/AbstractCheckedFuture.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/io/MultiReader.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/base/internal/Finalizer.java
*
/opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/net/PercentEscaper.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/escape/UnicodeEscaper.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/primitives/Longs.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/base/CharMatcher.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/base/Stopwatch.java
*
/opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/SequentialExecutor.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/primitives/Floats.java
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/primitives/Chars.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/io/FileBackedOutputStream.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/primitives/Bytes.java
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/**
```

* Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular
* version.
*/

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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/graph/Graphs.java
*
 /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/graph/ImmutableGraph.java
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/graph/PredecessorsFunction.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/graph/MutableNetwork.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/graph/SuccessorsFunction.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/io/InsecureRecursiveDeleteException.java
*
 /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/io/RecursiveDeleteOption.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/graph/ImmutableNetwork.java

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*
/opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/AtomicLongMap.java
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*
/opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/ForwardingImmutableCollection.java
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*
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*
 /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/math/PairedStats.java
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/opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/io/package-info.java
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/io/LittleEndianDataInputStream.java
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/EnumMultiset.java
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/SortedMultiset.java
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*/
/*
  * This method was rewritten in Java from an intermediate step of the Murmur hash function in
  * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
  * following header:
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  */

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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/escape/Platform.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/io/LineProcessor.java
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*
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* limitations under the License.
*/
/**
  * Returns an array containing all of the elements in the specified collection. This method
  * returns the elements in the order they are returned by the collection's iterator. The returned
  * array is "safe" in that no references to it are maintained by the collection. The caller is
  * thus free to modify the returned
 array.
  *
  * <p>This method assumes that the collection size doesn't change while the method is running.
  *
  * <p>TODO(kevinb): support concurrently modified collections?
  *
  * @param c the collection for which to return an array of elements
  */
```

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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/base/Equivalence.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/ForwardingBlockingQueue.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/SortedLists.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/annotations/package-info.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/Monitor.java
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/base/Ascii.java
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  *
  * As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
  * java.util.HashMap
 class.
  */

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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/TrustedListenableFutureTask.java
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-

jar/com/datastax/oss/driver/shaded/guava/common/eventbus/Subscriber.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/ListenerCallQueue.java
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/ComparisonChain.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/RegularImmutableList.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/ImmutableAsList.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/SingletonImmutableTable.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/DiscreteDomain.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/ComputationException.java
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/ImmutableTable.java
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/ImmutableClassToInstanceMap.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/ImmutableSortedSetFauxverideShim.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/ForwardingTable.java
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/ImmutableSortedMultiset.java
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/RegularImmutableSortedMultiset.java
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/RangeSet.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/ForwardingSortedMultiset.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/Count.java

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 /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/ImmutableSortedMultisetFauxverideShim.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/SortedIterables.java
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*/
/**
* Outer class that exists solely to let us write {@code Partially.GwtIncompatible} instead of plain
* {@code GwtIncompatible}. This is more accurate for {@link Futures#catching}, which is available
* under GWT but with a slightly different signature.
*
* <p>We can't use {@code PartiallyGwtIncompatible} because then the GWT compiler
 wouldn't recognize
* it as a {@code GwtIncompatible} annotation. And for {@code Futures.catching}, we need the GWT
* compiler to autostrip the normal server method in order to expose the special, inherited GWT
* version.
*/

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1.789 lmdbjava 0.7.0

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1.790 lmdbjava-native-windows-x86_64 0.9.23-1

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1.792 lmdbjava-native-linux-x86_64 0.9.23-1

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1.793 vault-api 1.0.4

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1.794 xorg-sgml-doctools 1.11-1.1

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1.795 netbase 6.3

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1.796 python 3.9.2-3

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Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC. Guido remains Python's

principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's
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* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/NativeSslSession.java
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* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/BufferAllocator.java
* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/ExperimentalApi.java
* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/SessionSnapshot.java
* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/Java8EngineWrapper.java
* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/ExternalSession.java
* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/AbstractConscryptEngine.java
* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/AbstractConscryptSocket.java
* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/ConscryptFileDescriptorSocket.java
* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/Conscrypt.java
* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/PeerInfoProvider.java
* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/Preconditions.java
* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLSignatureRawECDSA.java
* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/KeyGeneratorImpl.java
* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/ApplicationProtocolSelectorAdapter.java

* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLCipherChaCha20.java
* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/ActiveSession.java
* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/ApplicationProtocolSelector.java
* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/ConscryptSession.java
*
/opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/IvParameters.java
* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/ECParameters.java
* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/DESEDESecretKeyFactory.java
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/**
* Provides the Java side of our JNI glue for OpenSSL.
* <p>
* Note: Many methods in this class take a reference to a Java object that holds a
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* the Java object in the native implementation. This is to prevent the Java
 object
* from becoming eligible for GC while the native method is executing. See
* this
* for more details.
*/

Found in path(s):
* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/NativeCrypto.java
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* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/AddressUtils.java
* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/DuckTypedPSKKeyManager.java
*
 /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/NativeCryptoJni.java

* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/CryptoUpcalls.java
* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/ArrayUtils.java
* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/PSKKeyManager.java
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* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/SSLClientSessionCache.java
* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/FileClientSessionCache.java
*
 /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/AbstractSessionContext.java
* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/TrustedCertificateIndex.java
* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/SSLServerSessionCache.java
* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/ServerSessionContext.java
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* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLServerSocketFactoryImpl.java
* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLSocketImpl.java
* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLSocketFactoryImpl.java
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* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLCipher.java
* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLMac.java
*
 /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLRSAPrivateCrtKey.java
* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLRSAKeyFactory.java
* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLECPrivateKey.java
* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLECPointContext.java
* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLX509Certificate.java
* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-

jar/org/conscrypt/OpenSSLCipherRSA.java
* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/CertPinManager.java
* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLRSAPublicKey.java
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/opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLRSAKeyPairGenerator.java
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* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLRandom.java
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* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLSignatureRawRSA.java
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* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLBIOInputStream.java
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/opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/ChainStrengthAnalyzer.java
* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLECGroupContext.java
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* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/EmptyArray.java
* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLProvider.java
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* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLX509CRLEntry.java
* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLX509CRL.java
* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLECDHKeyAgreement.java
* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLECKeyFactory.java
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* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/PSSParameters.java
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 /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/DefaultSSLContextImpl.java
* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/KeyManagerImpl.java
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* /opt/cola/permits/1205169185_1632193929.57/0/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/ct/CTConstants.java
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1.809 dlv 1.1.3

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1.815 junit 4.13.1

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1.816 tdb 1.46.2

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1.817 x-time-rate a4bde12657593d5e90d0533a3e4fd95e635124cb

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1.818 dlintw-goconf 0.0.0-20120228082610-dcc070983490

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1.819 blang-semver 3.5.1+incompatible

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1.820 queue 1.1.0

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1.821 xml-path 2.0.0-20150820204837-860cbeca3ebc

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1.822 xi2-xz 0.0.0-20171230120015-48954b6210f8

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The contents of the testdata directory are modified versions of
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1.823 rsc.io-sampler 1.3.0

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1.824 karalabe-cookiejar 1.0.0-20141109175019-e1490cae028c

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1.825 rsc.io-quote 1.5.2

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1.826 modern-go-concurrent 0.0.0-20180306012644-bacd9c7ef1dd

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1.827 prometheus-common 0.4.1

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1.828 gin-contrib-sse 0.1.0

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1.829 treeprint 0.0.0-20161029104018-1d6e34225557

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1.830 go-readline 0.0.0-20180603132655-2972be24d48e

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1.831 go-linereader 0.0.0-20190213213312-1b945b3263eb

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1.832 tagparser 0.1.1

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1.833 goxpath 0.0.0-20190607011252-c5096ec8773d

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1.835 go-cty 1.4.1-0.20200414143053-d3edf31b6320

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1.836 color-string 0.0.0-20190213212951-d06e56a500db

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1.837 aliyun-aliyun-oss-go-sdk 0.0.0-20190103054945-8205d1f41e70

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1.838 go-hclog 0.15.0

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1.839 go-safetemp 1.0.0

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1.840 oklog-run 1.0.0

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1.841 x-net 0.0.0-20201021035429-f5854403a974

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1.842 x-time-rate 0.0.0-20200416051211-89c76fbcd5d1

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1.843 go-zfs 2.1.2-0.20190413222219-f784269be439+incompatible

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1.844 oklog-run 1.1.0

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1.845 zap 1.18.1

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1.846 godbus 5.0.4

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1.847 x-crypto 0.0.0-20210616213533-5ff15b29337e

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1.848 go-openapi-jsonpointer 0.19.5

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1.849 zap 1.17.0

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1.851 goautoneg 0.0.0-20191010083416-a7dc8b61c822

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1.852 go-sysconf 0.3.4

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1.853 prometheus-common 0.26.0

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1.854 googleapis-gnostic 0.5.5

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1.855 spf13-pflag 1.0.5

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1.856 blackfriday 2.1.0

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1.857 vault 0.1.13

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```
---
layout: api
page_title: /sys/license - HTTP API
description: |-
 The `/sys/license` endpoint is used to view and update the license used in
 Vault.
---

# `/sys/license`
```

~> **Enterprise Only** These endpoints require Vault Enterprise.

The `/sys/license` endpoint is used to view and update the license used in
Vault.

Read License

~> This API is deprecated as of Vault 1.8 and will be removed in a future version of Vault.
Please use [license autoloading](/docs/enterprise/license/autoloading) instead,
and see [License Status](#license-status) below for the non-deprecated equivalent API.

This endpoint returns information about the currently installed license.

Method	Path
`GET`	`/sys/license`

Sample Request

```shell-session
$ curl \
  --header "X-Vault-Token: ..." \
  http://127.0.0.1:8200/v1/sys/license
```

Sample Response

```json
{
 "data": {
   "expiration_time": "2017-11-14T16:34:36.546753-05:00",
   "features":
 ["UI", "HSM", "Performance Replication", "DR Replication"],
   "license_id": "temporary",
   "start_time": "2017-11-14T16:04:36.546753-05:00"
 },
 "warnings": ["time left on license is 29m33s"]
}
```

Read Signed License

~> This API is deprecated as of Vault 1.8 and will be removed in a future version of Vault.
Please use [license autoloading](/docs/enterprise/license/autoloading) instead.

This endpoint returns the signed license blob for the currently installed license.

Method	Path
`GET`	`/sys/license/signed`

Sample Request

```shell-session
$ curl \
   --header "X-Vault-Token: ..." \
   http://127.0.0.1:8200/v1/sys/license/signed
```

Sample Response

```json
{
 "data": {
   "signed": "01ABCDEFG..."
 }
}
```

Install License

~> This API is deprecated as of Vault 1.8 and will be removed in a future version of Vault.
Please use [license autoloading](/docs/enterprise/license/autoloading) instead.

This
 endpoint is used to install a license into Vault. The license will be
replicated to the Vault instances within the targeted cluster, but will not
replicate the license to a [performance replication](/docs/enterprise/replication) cluster. To license a
performance replication cluster, this must be run against a Vault instance within that cluster.

Method	Path
`PUT`	`/sys/license`

Parameters

- `text` `(string: <required>)` The text of the license.

DR Secondary Specific Parameters

- `dr_operation_token` `(string: <required>)` - DR operation token used to authorize this request.
Note that this is the legacy mechanism for providing a DR operation token. It is
equally valid to provide the DR operation token in the `X-Vault-Token` header, as
with a regular vault token.

If you are using a batch `dr_operation_token`, note you will need to add the following to the token's policy

```# Manage license for DR Secondary
path "sys/replication/dr/secondary/license"
 {
capabilities = ["update"]
}```

### Sample Payload

```json
{
 "text": "01ABCDEFG..."
}
```

Sample Request

```shell-session
$ curl \
   --header "X-Vault-Token: ..." \
   --request PUT \
   --data @payload.json \
   http://127.0.0.1:8200/v1/sys/license
```

Delete License

~> This API is deprecated as of Vault 1.8 and will be removed in a future version of Vault.
Please use [license autoloading](/docs/enterprise/license/autoloading) instead.

This endpoint is used to delete a stored license in Vault. This will return
an error unless license autoloading is in use.

Method	Path
`DELETE`	`/sys/license`

Sample Request

```shell-session
$ curl \
   --header "X-Vault-Token: ..." \
   --request DELETE \
   http://127.0.0.1:8200/v1/sys/license
```
```

License Status

This endpoint returns information about licensing. It returns similar information
to a GET of `sys/license`, but whereas that
 endpoint reports solely on the
license Vault is currently using, this one reports on all licensing
information the Vault cluster has. See
[license autoloading](/docs/enterprise/license/autoloading) for background.

In the response:
* `autoloading_used` will be true if an autoloaded license was provided to the
 node, false otherwise.
* `autoloaded` is the autoloaded license if autoloading_used is true.
* `persisted_autoload` is the autoloaded license the active node last wrote to
 storage; this is only used to detect inconsistently licensed nodes in the
 cluster. It cannot be used as a license itself.
* `stored` is the stored license if any, i.e. one written using `PUT sys/license`.

`autoloaded`, `persisted_autoload`, and `stored` all have the same structure,
which is also the same structure as the top-level `data` returned by `GET sys/license`.

Method	Path	
`GET`	`/sys/license/status`

Sample Request

```shell-session
$ curl
 \
   --header "X-Vault-Token: ..." \
   http://127.0.0.1:8200/v1/sys/license/status
```

Sample Response

```json
{
 "data": {
   "autoloading_used": true,
   "autoloaded": {
     "expiration_time": "2022-05-17T23:59:59.999Z",
     "features": [
       "HSM",
       "Performance Replication",
       "DR Replication",
       "MFA",
       "Sentinel",
```

"Seal Wrapping",
"Control Groups",
"Performance Standby",
"Namespaces",
"KMIP",
"Entropy Augmentation",
"Transform Secrets Engine",
"Lease Count Quotas",
"Key Management Secrets Engine",
"Automated Snapshots"
],
"license_id": "060d7820-fa59-f95c-832b-395db0aeb9ba",
"performance_standby_count": 9999,
"start_time": "2021-05-17T00:00:00Z"
},
"persisted_autoload": {
"expiration_time": "2022-05-17T23:59:59.999Z",
"features": [
"HSM",
"Performance Replication",
"DR Replication",

"MFA",
"Sentinel",
"Seal Wrapping",
"Control Groups",
"Performance Standby",
"Namespaces",
"KMIP",
"Entropy Augmentation",
"Transform Secrets Engine",
"Lease Count Quotas",
"Key Management Secrets Engine",
"Automated Snapshots"
],
"license_id": "060d7820-fa59-f95c-832b-395db0aeb9ba",
"performance_standby_count": 9999,
"start_time": "2021-05-17T00:00:00Z"
}
},
}
```

### Enterprise Licenses

In versions 1.2.6, 1.3.9, 1.4.5, and 1.5.2, the enterprise licenses were not incorporated correctly into the build and we have issued patch releases (x.y.z.1) for enterprise customers containing the proper license. As the previous builds were both not working and causing confusion, we have removed the binaries.
```

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```
<LicenseInfo
 @startTime={{model.startTime}}
 @expirationTime={{model.expirationTime}}
 @licenseId={{model.licenseId}}
 @features={{model.features}}
 @autoloaded={{model.autoloaded}}
 @performanceStandbyCount={{model.performanceStandbyCount}}
```

/>
---
layout: docs
page_title: license - Command
description: |-
 The "license" command groups subcommands for interacting with Vault licenses.
---

license

The `license` command groups subcommands for interacting with Vault licenses

For more information, please see the [license documentation](/docs/enterprise/license)

Examples

Query current license in use by a node:

```shell-session
$ vault license get
Key                     Value
---                     -----
expiration_time         2022-05-17T23:59:59.999Z
features                [HSM Performance Replication DR Replication MFA Sentinel Seal Wrapping Control Groups Performance Standby Namespaces KMIP Entropy Augmentation Transform Secrets Engine Lease Count Quotas Key Management Secrets Engine Automated Snapshots]
license_id              060d7820-fa59-f95c-832b-395db0aeb9ba
performance_standby_count    9999
start_time              2021-05-17T00:00:00Z
```

Query signed license string (only when
 using a deprecated stored license)

```shell-session
$ vault license get -signed
02MV4UU43BK5H...
```

Inspect a signed a license string:

```shell-session
$ vault license inspect ~/vaults/license
Source: /Users/ncc/vaults/license
Product: vault
License ID: 060d7820-fa59-f95c-832b-395db0aeb9ba
Customer ID: 5401ae3b-136b-3e47-3b43-432927fa03e7
Installation ID: *
```

Issue Time: 2021-05-17 19:33:47.93981585 +0000 UTC
Start Time: 2021-05-17 00:00:00 +0000 UTC
Expiration Time: 2022-05-17 23:59:59.999 +0000 UTC
{"license_id":"060d7820-fa59-f95c-832b-395db0aeb9ba","customer_id":"5401ae3b-136b-3e47-3b43-432927fa03e7","installation_id":"*","issue_time":"2021-05-17T19:33:47.93981585Z","start_time":"2021-05-17T00:00:00Z","expiration_time":"2022-05-17T23:59:59.999Z","flags":{"modules":["multi-dc-scale","governance-policy","advanced-data-protection"]},"features":["HSM","Performance Replication","DR Replication","MFA","Sentinel","Seal Wrapping","Control Groups","Performance Standby","Namespaces","KMIP","Entropy Augmentation","Transform Secrets Engine","Lease Count Quotas","Key Management Secrets Engine","Automated Snapshots"],"performance_standby_count":9999}

License is valid

```

## Usage

```text
Usage: vault license <subcommand> [options] [args]

 # ...

Subcommands:
   get      Query Vault's license
   inspect  View the contents of a license string
```

For more information, examples, and usage about a subcommand, click on the name
of the subcommand in the sidebar.
---
layout: docs
page_title: Vault Enterprise License
description: An overview of license.

Vault License

Licenses and EULA enhancements have been introduced in Vault 1.8 release. Please refer to the [FAQ](/docs/enterprise/license/faq) for common questions concerning these changes.

The [Install a HashiCorp Enterprise License](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=vault/enterprise) tutorial provides the instruction to load your Vault license.
<PageHeader as |p|>
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   <h1 class="title is-3">License</h1>
 </p.levelLeft>
</PageHeader>
```

```
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 <span class="title is-5">Details</span>
   <div class="field box is-fullwidth is-shadowless is-paddingless is-marginless">
     <InfoTableRow @label="License ID" @value={{@licenseId}} @data-test-detail-row={{true}} />
     <InfoTableRow @label="Valid from" @value={{@startTime}} @data-test-detail-row={{true}}>
       {{date-format @startTime 'MMM dd, yyyy hh:mm:ss a'}} to {{date-format @expirationTime 'MMM dd, yyyy
hh:mm:ss a'}}
     </InfoTableRow>
     <InfoTableRow @label="License state" @value={{if @autoloaded "Autoloaded" "Stored"}} @data-test-detail-
row={{true}}>
       {{#if @autoloaded}}
         Autoloaded
       {{else}}
         Stored
         <Icon @glyph="alert-triangle" class="has-text-highlight" /> <span class="is-size-8">Stored licenses will be
deprecated in a future version of
 Vault. We recommend autoloading your license. Read more <a
href="https://www.vaultproject.io/docs/enterprise/license" rel="noreferrer noopener" target="_blank"
>here</a>.</span>
       {{/if}}
       </InfoTableRow>
   </div>
</section>

<section class="box is-sideless is-marginless is-shadowless is-fullwidth">
 <span class="title is-5">Features</span>
 <div class="field box is-fullwidth is-shadowless is-paddingless is-marginless">
   {{#each this.featuresInfo as |info|}}
     <InfoTableRow @label={{info.name}} @value={{if info.active "Active" "Not Active"}} @data-test-feature-
row="data-test-feature-row">
       {{#if info.active}}
       <Icon
         @glyph="check-circle-outline"
         @size="l"
         class="icon-true"
         aria-hidden="true"
       /><span data-test-feature-status>Active {{#if info.count}}&mdash;
        {{info.count}} standby nodes allotted{{/if}}</span>
       {{else}}
         <Icon
           @glyph="cancel-circle-outline"

   @size="l"
           class="icon-false"
           aria-hidden="true"
         /><span data-test-feature-status>Not Active</span>
       {{/if}}
```

```
    </InfoTableRow>
  {{/each}}
 </div>
</section>
---
layout: docs
page_title: Frequently Asked Questions (FAQ)
description: An overview of license.
---

# Frequently Asked Questions (FAQ)

This FAQ section is for the license changes introduced in Vault Enterprise 1.8.

- [Q: When will these licensing changes be released for Vault?](#q-when-will-these-licensing-changes-be-released-for-vault)
- [Q: Will these license changes impact HCP Vault?](#q-will-these-license-changes-impact-hcp-vault)
- [Q: Do these license changes impact all Vault customers/licenses?](#q-do-these-license-changes-impact-all-vault-customers-licenses)
- [Q: What is the product behavior change introduced by the licensing changes?](#q-what-is-the-product-behavior-change-introduced-by-the-licensing-changes)
- [Q: How will Vault behave at startup when a license expires or terminates?](#q-how-will-vault-behave-at-startup-when-a-license-expires-or-terminates)
- [Q: What is the impact on evaluation licenses due to this change?](#q-what-is-the-impact-on-evaluation-licenses-due-to-this-change)
-
 [Q: Are there any changes to existing methods for manual license loading ( API or CLI)?](#q-are-there-any-changes-to-existing-methods-for-manual-license-loading-api-or-cli)
- [Q: Is there a grace period when evaluation licenses expire?](#q-is-there-a-grace-period-when-evaluation-licenses-expire)
- [Q: Does this affect clients?](#q-does-this-affect-clients)
- [Q: Are the license files locked to a specific cluster?](#q-are-the-license-files-locked-to-a-specific-cluster)
- [Q: Will a EULA check happen every time a Vault restarts?](#q-will-a-eula-check-happen-every-time-a-vault-restarts)
- [Q: What scenarios should a customer plan for due to these license changes?](#q-what-scenarios-should-a-customer-plan-for-due-to-these-license-changes)
- [Q: What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?](#q-what-is-the-migration-path-for-customers-who-want-to-migrate-from-their-existing-license-as-applied-via-the-cli-flow-to-the-license-on-disk-flow)
-
 [Q: What is the migration path for customers who wish to migrate from their existing perpetually licensed binaries to the license on disk flow (auto-loading)?](#q-what-is-the-migration-path-for-customers-who-wish-to-migrate-from-their-existing-perpetually-licensed-binaries-to-the-license-on-disk-flow-auto-loading)
- [Q: What is the migration path for customers who want to migrate from their existing perpetually licensed binaries to the current license on storage flow?](#q-what-is-the-migration-path-for-customers-who-want-to-migrate-from-their-existing-perpetually-licensed-binaries-to-the-current-license-on-storage-flow)
- [Q: What is the path for customers who want to downgrade/rollback from Vault 1.8 or later (auto-loading) to a pre-Vault 1.8 (license in storage)?](#q-what-is-the-path-for-customers-who-want-to-downgrade-rollback-from-vault-1-
```

8-or-later-auto-loading-to-a-pre-vault-1-8-license-in-storage)
- [Q: Is there
 a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)

Q: When will these licensing changes be released for Vault?

The licensing and end-user license agreement (EULA) changes will be available with Vault 1.8-RC1 on June 16, 2021. Vault 1.8 is targeted to release on July 28, 2021.

Q: Will these license changes impact HCP Vault?

No, these changes will not impact HCP Vault.

Q: Do these license changes impact all Vault customers/licenses?

Customer/licenses	Impacted?
ENT binaries (evaluation or non-evaluation downloaded from [releases.hashicorp.com](https://releases.hashicorp.com/vault/))	Yes
Open-Source (OSS)	No
Baked-in license binaries (pro/premium)	No

Q: What is the product behavior change introduced by the licensing changes?

With Vault 1.8, a valid license is required on-disk (auto-loading) or in-storage for Vault to boot up successfully.

- Existing clusters upgrading to Vault 1.8 or later will not be affected. Customers may continue to use an in-storage license for their existing clusters until they decide to move to auto-loading. Please see the question below: [Is there a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)

- When deploying Vault 1.8 or later clusters, please ensure a valid license exists on-disk (auto-loading).

Q: How will Vault behave at startup when a license expires or terminates?

When
 a license expires, Vault continues to function until the license terminates. This behavior exists today and remains unchanged in Vault 1.8. The grace period, defined as the time between license expiration and license termination, is 1 day for evaluation licenses (as of 1.8), and ten years for non-evaluation licenses. Customers must install a valid license before the grace period expires. This license can be autoloaded or loaded into storage using existing methods (`/sys/license`) depending on the applicable scenarios as described above.
When license terminates (upon grace period expiry), Vault will seal itself and customers will need a valid license in order to successfully bring-up Vault. If a valid license was not installed after license expiry, customers will need to install one, and this license will need to be auto-loaded.

Q: What is the impact on evaluation licenses due to this change?

The 6-hour trial period for Enterprise binaries allows these particular binaries to run without a license file and will be removed as of Vault 1.8 and later. This change means that any clusters deployed with Vault 1.8 or later ENT binaries must have a valid license, and the license must be on the disk (auto-loading).

Q: Are there any changes to existing methods for manual license loading (API or CLI)?

There are no significant changes to the API or CLI license loading with Vault 1.8.
However, the `/sys/license` endpoint is slated for deprecation in a future release.
Please see the question: [Is there a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)

Q: Is there a grace period when evaluation licenses expire?

Evaluation licenses have a 1-day grace period. The grace period is the time until the license expires. Upon expiration, Vault will seal and will require a valid license to unseal and function properly.

Q: Does this affect clients?

No, there is no impact to the Vault Agent.

Q: Are the license files locked to a specific cluster?

The changes to licenses apply to all nodes in a cluster. The license files are not locked to a cluster, but are independently applied to the appropriate clusters.

Q: Will a EULA check happen every time a Vault restarts?

Yes, starting with Vault 1.8, ENT binaries will be subjected to a EULA check. The release of Vault 1.8 introduces the EULA check for evaluation licenses (non-evaluation licenses are evaluated with a EULA check during contractual agreement) .
Although the agreement to a EULA occurs only once (when the user receives their license), Vault will check for the presence of a valid license every time a node is restarted.

When a customer upgrades existing clusters to Vault 1.8 or later, a valid license must exist to upgrade successfully. This valid license must be in storage or on-disk (auto-loaded). Please see the below question: [Is there a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)

Also, when customers deploy new clusters to Vault 1.8 or later, a valid license must exist to upgrade successfully. This valid license must be on-disk (auto-loaded).

Q: What scenarios should a customer plan for due to these license changes?

- **New Cluster Deployment**: When a customer deploys new clusters to Vault 1.8 or later, a valid license must exist to successfully deploy. This valid license must be on-disk (auto-loaded).

- **Eventual Migration**: Since in-storage licenses will not be supported forever, migrating to auto-loaded licenses will be required. Please see the below question: [Is there a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)

Q: What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?

If a Vault 1.7 cluster is upgraded
to Vault 1.8 or later and still has a stored license, the operator must migrate using an auto-loaded license.

1. Use the new command `vault license get -signed` to retrieve the license from the storage in their running cluster.
2. Put the license on disk, configure auto-loading (new `license_path` config option, OR new environment variable `VAULT_LICENSE_PATH` OR new environment variable `VAULT_LICENSE` containing the actual license itself).
3. Restart the Vault node.
4. A warning will explain that the license is in storage and using auto-loading.
5. Use the new command `vault delete /sys/license` to fully transition to auto-loading.

Q: What is the migration path for customers who wish to migrate from their existing perpetually licensed binaries to the license on disk flow (auto-loading)?

A Vault customer who is currently using S3 unlocked binaries, upgrading their clusters to Vault 1.8 or later, and wishes to move to auto-loading, will need a valid enterprise binary version
1.8 or later and a valid license. The steps are the same as in the above question: [What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?](#q-what-is-the-migration-path-for-customers-who-want-to-migrate-from-their-existing-license-as-applied-via-the-cli-flow-to-the-license-on-disk-flow) starting at Step 2.

Q: What is the migration path for customers who want to migrate from their existing perpetually licensed binaries to the current license on storage flow?

A Vault customer currently using S3 unlocked binaries is upgrading their clusters to a pre-Vault 1.8 version, the customer must retrieve the corresponding enterprise binary and a valid license to load the license in storage (`/sys/license`). Please see the below question: [Is there a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)

Q: What is the
path for customers who want to downgrade/rollback from Vault 1.8 or later (auto-loading) to a pre- Vault 1.8 (license in storage)?

The downgrade procedure remains the same for Vault customers who are currently on Vault 1.8 or later, have a license installed via auto-loading, and would like to downgrade their cluster to a pre-1.8 version that does not have auto-loading support and only supports license in storage. Please refer to the [upgrade procedures](https://learn.hashicorp.com/tutorials/vault/sop-upgrade?in=vault/standard-procedures) that remind the customers that they must take a snapshot before the upgrade. Customers will need to restore their version from the snapshot, apply the pre-1.8 enterprise binary version they wish to roll back, and bring up the clusters.

Q: Is there a limited time for support of licenses that are in storage?

The support of licenses installed by alternative means often leads to difficulties providing the appropriate support. To provide the support
 expected by our customers, we plan to scale support for licenses in storage for Vault. With this plan, Vault customers have up to a 1-year migration period, or until the release of Vault 1.11, to migrate their licenses from in-storage to auto-loading. Starting with Vault 1.11, licensing endpoints that are put in storage will be removed, and Vault will no longer check for valid licenses in storage. This change requires that all customers have auto-loaded licenses to upgrade to 1.11(+) successfully.
---
layout: docs
page_title: license inspect - Command
description: |-
 The "license inspect" command describes the contents of a signed license string.
---

license inspect

The `license inspect` command describes the contents of a signed license string.

Examples

Describe license in the environment (either `VAULT_LICENSE` for a raw value
or `VAULT_LICENSE_PATH` for the path to a file containing the value):

```shell-session
$ vault license inspect
Source: /Users/ncc/vaults/license
Product: vault
License ID: 060d7820-fa59-f95c-832b-395db0aeb9ba
Customer ID: 5401ae3b-136b-3e47-3b43-432927fa03e7
Installation ID: *
Issue Time: 2021-05-17 19:33:47.93981585 +0000 UTC
Start Time: 2021-05-17 00:00:00 +0000 UTC
Expiration Time: 2022-05-17 23:59:59.999 +0000 UTC
{"license_id":"060d7820-fa59-f95c-832b-395db0aeb9ba","customer_id":"5401ae3b-136b-3e47-3b43-432927fa03e7","installation_id":"*","issue_time":"2021-05-17T19:33:47.93981585Z","start_time":"2021-05-17T00:00:00Z","expiration_time":"2022-05-17T23:59:59.999Z","flags":{"modules":["multi-dc-scale","governance-policy","advanced-data-protection"]},"features":["HSM","Performance
 Replication","DR Replication","MFA","Sentinel","Seal Wrapping","Control Groups","Performance Standby","Namespaces","KMIP","Entropy Augmentation","Transform Secrets Engine","Lease Count Quotas","Key Management Secrets Engine","Automated Snapshots"],"performance_standby_count":9999}

License is valid
```

Describe license at given path:

```shell-session
```

```
$ vault license inspect ~/vaults/license
Source: /Users/ncc/vaults/license
Product: vault
License ID: 060d7820-fa59-f95c-832b-395db0aeb9ba
Customer ID: 5401ae3b-136b-3e47-3b43-432927fa03e7
Installation ID: *
Issue Time: 2021-05-17 19:33:47.93981585 +0000 UTC
Start Time: 2021-05-17 00:00:00 +0000 UTC
Expiration Time: 2022-05-17 23:59:59.999 +0000 UTC
{"license_id":"060d7820-fa59-f95c-832b-395db0aeb9ba","customer_id":"5401ae3b-136b-3e47-3b43-432927fa03e7","installation_id":"*","issue_time":"2021-05-17T19:33:47.93981585Z","start_time":"2021-05-17T00:00:00Z","expiration_time":"2022-05-17T23:59:59.999Z","flags":{"modules":["multi-dc-scale","governance-policy","advanced-data-protection"]},"features":["HSM","Performance
 Replication","DR Replication","MFA","Sentinel","Seal Wrapping","Control Groups","Performance
Standby","Namespaces","KMIP","Entropy Augmentation","Transform Secrets Engine","Lease Count Quotas","Key
Management Secrets Engine","Automated Snapshots"],"performance_standby_count":9999}

License is valid
```

Usage

The following flags are available in addition to the [standard set of
flags](/docs/commands) included on all commands.

Command Options

- `-installation-id` `(string: "")` - Installation ID to validate the license against
```
.license-banner-wrapper {
 width: 100%;
 max-width: 1344px;
 margin: $spacing-l auto 0;
 padding: 0 1.5rem;
}
{{#if this.licenseExpired}}
 <div class="license-banner-wrapper" data-test-license-banner data-test-license-banner-expired>
   <AlertBanner
     @type="danger"
     @title="License expired"
     @message="Your Vault license expired on {{date-format @expiry "MMM d, yyyy"}}. Add a new license to
your configuration and restart Vault."
     @marginless={{true}}
   >
     <a href="https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license" target="_blank"
rel="noreferrer noopener">Read documentation</a>
   </AlertBanner>
 </div>
{{else if (lte this.licenseExpiringInDays 30)}}
```

```
 <div class="license-banner-wrapper" data-test-license-banner data-test-license-banner-warning>
   <AlertBanner
     @type="warning"
     @title="Vault license expiring"
     @message="Your Vault license will expire in {{this.licenseExpiringInDays}} days at {{date-format @expiry
"hh:mm:ss a"}} on {{date-format @expiry "MMM d, yyyy"}}. {{if @autoloaded 'Add a new license to your
configuration.'
 'Keep in mind that your next license will need to be autoloaded'}}"
     @marginless={{true}}
   >
     <a href="https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license" target="_blank"
rel="noreferrer noopener">Read documentation</a>
   </AlertBanner>
 </div>
{{/if}}
---
layout: docs
page_title: License Autoloading
description: An overview of license autoloading.
---

Prior to Vault 1.8, Vault Enterprise would be licensed using special binaries
that contained embedded licenses, or via a license written into Vault storage
using the [PUT sys/license API](/api/system/license#install-license).

As of Vault 1.8 those options still exist but are deprecated, and the recommended
mechanism for managing licenses is called License Autoloading.  New clusters are
required to use the autoloading method.

License Autoloading can be done using one of these mechanisms, in increasing order
of priority (i.e. `VAULT_LICENSE` takes precedence over `VAULT_LICENSE_PATH`, which
takes precedence over `license_path` in config.)
* [license_path in config](/docs/configuration#license_path)
* [VAULT_LICENSE_PATH environment variable](/docs/commands#vault_license_path)
* [VAULT_LICENSE environment variable](/docs/commands#vault_license)

Nodes within a cluster should be consistently
 licensed. All nodes in a cluster
should use autoloading, or none should. If autoloading is used, all nodes should
use the same license string. Warnings will be written to the log when there
are discrepancies.

If autoloading is used, any existing stored license will be ignored.  The presence
of a stored license in conjunction with an autoloaded license will also result in
logged warnings.  Once a migration to autoloading is completed, it is recommended to use
the [DELETE API](/api/system/license#delete-license) to remove the stored license.
---
layout: docs
```

page_title: license get - Command
description: |-
 The "license get" command reports on the license in use.
---

license get

The `license get` command reports on the license in use. With the `-signed`
flag, it will return the actual license string, but only if the license
is stored, as opposed to [autoloaded](/docs/enterprise/license/autoloading).

Examples

Describe current license:

```shell-session
$ vault license get
Key                      Value
---                      -----
expiration_time          2022-05-17T23:59:59.999Z
features                 [HSM Performance Replication DR Replication MFA Sentinel Seal Wrapping Control Groups
Performance Standby Namespaces KMIP Entropy Augmentation Transform Secrets Engine Lease Count Quotas
Key Management Secrets Engine Automated Snapshots]
license_id               060d7820-fa59-f95c-832b-395db0aeb9ba
performance_standby_count    9999
start_time               2021-05-17T00:00:00Z
```

Get stored
 license string:

```shell-session
$ vault license get -signed
02MV4UU43BK5H...
```

Try to get stored license string when using autoloading:

```shell-session
$ vault license get -signed
License not found or using a temporary license.
```

Usage

The following flags are available in addition to the [standard set of
flags](/docs/commands) included on all commands.

Command Options

- `-signed` `(bool: false)` - Return the signed license string when using a stored license.

```
package license

// Features is a bitmask of feature flags
type Features uint

const FeatureNone Features = 0

func (f Features) HasFeature(flag Features) bool {
 return false
}
```

1.858 aec 1.0.0

1.858.1 Available under license :

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1.859 docker-go-metrics 0.0.1

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1.860 units 0.0.0-20180711220420-6950e57a87ea

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1.861 golang-genproto 0.0.0-20190819201941-24fa4b261c55

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1.862 easyjson 0.7.6

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1.863 perl 5.32.1-4+deb11u2

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1.875 projectcalico-go-json 0.0.0-20161128004156-6219dc7339ba

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1.879 projectcalico-go-yaml-wrapper 0.0.0-20191112210931-090425220c54

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1.880 pretty 1.2.0

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1.883 clockwork 0.2.2

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Clockwork - a clock process to replace cron

==========

Cron is non-ideal for running scheduled application tasks, especially in an app deployed to multiple machines. [More details.](http://adam.heroku.com/past/2010/4/13/rethinking_cron/)

Clockwork is a cron replacement. It runs as a lightweight, long-running Ruby process which sits alongside your web processes (Mongrel/Thin) and your worker processes (DJ/Resque/Minion/Stalker) to schedule recurring work at particular times or dates. For example, refreshing feeds on an hourly basis, or send reminder emails on a nightly basis, or generating invoices once a month on the 1st.

Quickstart

Create clock.rb:

```
require 'clockwork'
include Clockwork

handler do |job|
  puts "Running #{job}"
end

every(10.seconds, 'frequent.job')
every(3.minutes, 'less.frequent.job')
every(1.hour, 'hourly.job')


every(1.day, 'midnight.job', :at => '00:00')
```

Run it with the clockwork binary:

```
$ clockwork clock.rb
[2010-05-25 18:16:46 -0700] Starting clock for 4 events: [ frequent.job less.frequent.job hourly.job midnight.job ]
[2010-05-25 18:16:46 -0700] -> frequent.job
```

Use with queueing

The clock process only makes sense as a place to schedule work to be done, not to do the work. It avoids locking by running as a single process, but this makes it impossible to parallelize. For doing the work, you should be using a job queueing system, such as
[Delayed Job](http://www.therailsway.com/2009/7/22/do-it-later-with-delayed-job),
[Beanstalk/Stalker](http://adam.heroku.com/past/2010/4/24/beanstalk_a_simple_and_fast_queueing_backend/),
[RabbitMQ/Minion](http://adamblog.heroku.com/past/2009/9/28/background_jobs_with_rabbitmq_and_minion/),
or

[Resque](http://github.com/blog/542-introducing-resque). This design allows a simple clock process with no locks, but also offers near infinite horizontal scalability.

For example, if you're using Beanstalk/Staker:

```
require 'stalker'

handler { |job| Stalker.enqueue(job) }

every(1.hour, 'feeds.refresh')
every(1.day, 'reminders.send', :at => '01:30')
```

Using a queueing system which doesn't require that your full application be loaded is preferable, because the clock process can keep a tiny memory footprint. If you're using DJ or Resque, however, you can go ahead and load your full application enviroment, and use per-event blocks to call DJ or Resque enqueue methods. For example, with DJ/Rails:

```
require 'config/boot'
require 'config/environment'

every(1.hour, 'feeds.refresh') { Feed.send_later(:refresh) }
every(1.day, 'reminders.send', :at => '01:30') { Reminder.send_later(:send_reminders) }
```

Anatomy of a clock file
---

clock.rb is standard Ruby. Since we include the Clockwork module (the clockwork binary does this automatically, or you can do it explicitly), this exposes a small DSL ("handler" and "every") to define the handler for events, and then the events themselves.

The handler typically looks like this:

```
handler { |job| enqueue_your_job(job) }
```

This block will be invoked every time an event is triggered, with the job name passed in. In most cases, you should be able to pass the job name directly through to your queueing system.

The second part of the file are the events, which roughly resembles a crontab:

```
every(5.minutes, 'thing.do')
every(1.hour, 'otherthing.do')
```

In the first line of this example, an event will be triggered once every five minutes, passing the job name 'thing.do' into the handler. The handler shown above would thus call enqueue_your_job('thing.do').

You can also pass a custom block to the handler, for job queueing systems that rely on classes rather than job names (i.e. DJ and Resque). In this case, you need not define a general event handler, and instead provide one with each event:

```
  every(5.minutes,
 'thing.do') { Thing.send_later(:do) }
```

If you provide a custom handler for the block, the job name is used only for logging.

You can also use blocks to do more complex checks:

```
  every(1.day, 'check.leap.year') do
    Stalker.enqueue('leap.year.party') if Time.now.year % 4 == 0
  end
```

In production

Only one clock process should ever be running across your whole application deployment. For example, if your app is running on three VPS machines (two app servers and one database), your app machines might have the following process topography:

* App server 1: 3 web (thin start), 3 workers (rake jobs:work), 1 clock (clockwork clock.rb)
* App server 2: 3 web (thin start), 3 workers (rake jobs:work)

You should use Monit, God, Upstart, or Inittab to keep your clock process running the same way you keep your web and workers running.

Meta

Created by Adam Wiggins

Inspired by [rufus-scheduler](http://rufus.rubyforge.org/rufus-scheduler/) and [http://github.com/bvandenbos/resque-scheduler](resque-scehduler)

Design
 assistance from Peter van Hardenberg and Matthew Soldo

Patches contributed by Mark McGranaghan

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http://github.com/adamwiggins/clockwork

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* /opt/cola/permits/1213082843_1634008352.31/0/clockwork-0-2-2-1-gem/data-tar-gz/README.md

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cli.go - https://github.com/urfave/cli

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1.889 cheekybits-genny 1.0.0

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1.890 go-testing-interface 1.14.1

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1.891 zap 1.19.1

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1.893 godotenv 1.4.0

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1.895 golang-genproto 0.0.0-20200806141610-86f49bd18e98

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1.897 otto 0.0.0-20180617131154-15f95af6e78d

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1.898 sjson 1.0.4

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1.899 globalsign-mgo 0.0.0-20181015135952-eeefdecb41b8

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mgo - MongoDB driver for Go

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1.900 dnstap-golang-dnstap 0.4.0

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1.901 farsightsec-golang-framestream 0.3.0

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1.902 lib-pq 1.10.3

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```
//go:build go1.10
// +build go1.10

package pq

import (
 "context"
 "database/sql/driver"
)

// NoticeHandler returns the notice handler on the given connection, if any. A
// runtime panic occurs if c is not a pq connection. This is rarely used
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
 return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A
// runtime panic occurs if c is not a pq connection. A nil handler may be used
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and
// ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
 c.(*conn).noticeHandler = handler
}
```

```
// NoticeHandlerConnector wraps a regular connector and sets a notice handler
//
 on it.
type NoticeHandlerConnector struct {
 driver.Connector
 noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
 c, err := n.Connector.Connect(ctx)
 if err == nil {
  SetNoticeHandler(c, n.noticeHandler)
 }
 return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  return c.noticeHandler
 }
 return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and
 setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  c.noticeHandler = handler
  return c
 }
 return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}
```

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1.920 lonelycode-go-uuid 0.0.0-20141202165402-ed3ca8a15a93

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1.921 tyktechnologies-gojsonschema 0.0.0-20170222154038-dcb3e4bb7990

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1.937 golang-migrate-migrate 4.7.0

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1.938 grpc-websocket-proxy 0.0.0-20200427203606-3cfed13b9966

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1.940 uniseg 0.2.0

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1.941 bluemonday 1.0.16

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1.942 grpc-websocket-proxy 0.0.0-20201229170055-e5319fda7802

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1.943 object.values 1.1.5

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1.944 types-yargs 16.0.4

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1.947 infobloxopen-go-trees 0.0.0-20200715205103-96a057b8dfb9

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1.948 urfave-cli 2.3.0

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1.950 bolt 1.3.1

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Jonathan Rudenberg <jonathan@flynn.io> (github: titanous)
procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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1.961 sha256-simd 1.0.0

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1.963 highwayhash 1.0.2

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1.967 vmihailenco-msgpack 2.9.1

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1.968 paulbellamy-ratecounter 0.2.0

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RateCounter Contributors (sorted alphabetically)
==========

- **[cheshir](https://github.com/cheshir)**

 - Added averate rate counter

- **[paulbellamy](https://github.com/paulbellamy)**

 - Original implementation and general housekeeping

- **[sheerun](https://github.com/sheerun)**

 - Improved memory efficiency
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1.969 cenk-backoff 2.2.1+incompatible

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1.970 mavricknz-asn1-ber 0.0.0-20151103223136-b9df1c2f4213

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1.971 mavricknz-ldap 0.0.0-20160227184754-f5a958005e43

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1.972 tyktechnologies-leakybucket 0.0.0-20170301023702-71692c943e3c

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1.973 tyktechnologies-again 0.0.0-20190805133618-6ad301e7eaed

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1.974 gemnasium-logrus-graylog-hook 2.0.7+incompatible

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1.979 commons-csv 1.9.0

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1.980 glob-parent 6.0.2

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1.983 gojsonpointer 0.0.0-20190809123943-df4f5c81cb3b

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1.984 m3db-prometheus_remote_client_golang 0.4.4

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1.986 fwd 1.1.1

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1.987 makeerror 1.0.12

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1.990 libnsl 1.3.0-2

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1.1000 pcre 8.42-6.el8

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THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel
Email local part: ph10
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PCRE JUST-IN-TIME COMPILATION SUPPORT

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1.1001 function.prototype.name 1.1.5

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1.1002 object.entries 1.1.5

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1.1003 klona 2.0.5

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1.1004 cosmiconfig 7.0.1

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1.1005 @babel/preset-modules 0.1.5

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1.1006 jensneuse-byte-template 0.0.0-20200214152254-4f3cf06e5c68

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1.1007 jensneuse-pipeline 0.0.0-20200117120358-9fb4de085cd6

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1.1008 tyktechnologies-circuitbreaker 2.2.2+incompatible

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1.1009 jensneuse-abstractlogger 0.0.4

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/*
package abstractlogger solves the problem of abstracting away a logging frontend from a logging backend.

Usually you would choose the best logger you can for your project.
This can be determined by specific needs regarding the interface of the logger or just requirements regarding performance.

But what if you want to change the logger easily?
What if you're building a library and want your users to be able to use whatever logging library they want?

This is exactly the problem abstractlogger tries to solve.
This package acts as a "frontend" for logging that lets you or your users choose the backend.

You're free to use one of the existing implementations, e.g. zap or logrus which are common across the community.
If that doesn't satisfy your needs feel free to implement the interface yourself.
You're invited to contribute back your additional implementations.

If you think the Logger interface/frontend doesn't satisfy
 your needs feel free to add additional funcs via a PR.
*/

Found in path(s):
* /opt/cola/permits/1229610570_1658606724.9130552/0/abstractlogger-0-0-4-tar-gz/abstractlogger-0.0.4/doc.go

1.1010 @types/body-parser 1.19.2

1.1010.1 Available under license :

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1.1011 json-schema 0.4.0

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$properties->license = License::schema();

Found in path(s):
* /opt/cola/permits/1231169960_1637613933.15/0/swaggest-php-json-schema-v0-4-0-0-gdfb0dd7-zip/swaggest-php-json-schema-dfb0dd7/src/SwaggerSchema/Info.php

1.1012 check-types 11.1.2

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1.1013 lines-and-columns 1.2.4

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1.1014 object.fromentries 2.0.5

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1.1015 icu 66.1-2ubuntu2.1

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## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
```

```
STATIC_O = ao

## Compilation
 rules
%.$(STATIC_O): $(srcdir)/%.c
 $(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
 $(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
 $(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
 $(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<


## Dependency rules
%.d: $(srcdir)/%.c
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.c) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.cc) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
 $(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
 $(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

##  Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup
```

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57.1

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1.1087 lru-cache 6.0.0

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1.1097 mimic-fn 2.1.0

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1.1098 argparse 1.0.10

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1.1099 string-width 4.2.3

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1.1104 which-boxed-primitive 1.0.2

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1.1116 javascript-common 11+nmu1

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1.1117 libalgorithm-diff-perl 1.201-1

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```
#!/usr/bin/perl -w
#
# `Diff' program in Perl
# Copyright 1998 M-J. Dominus. (mjd-perl-diff@plover.com)
#
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# under the same terms as Perl itself.
#
# Altered to output in `context diff' format (but without context)
# September 1998 Christian Murphy (cpm@muc.de)
#
# Command-line arguments and context lines feature added
# September 1998 Amir D. Karger (karger@bead.aecom.yu.edu)
#
# In this file, "item" usually means "line of text", and "item number" usually
# means "line number". But theoretically the code could be used more generally
use strict;

use Algorithm::Diff qw(diff);
use File::stat;
use vars qw ($opt_C $opt_c $opt_u $opt_U);
use Getopt::Std;

my $usage = << "ENDUSAGE";
Usage: $0 [{-c | -u}] [{-C | -U} lines] oldfile newfile
   -c will do a context diff with 3 lines of context
   -C will do a context diff with 'lines' lines of context
    -u will do a unified diff with 3 lines of context
   -U will do a unified diff with 'lines' lines of context
ENDUSAGE

getopts('U:C:cu') or bag("$usage");
bag("$usage") unless @ARGV == 2;
my ($file1, $file2) = @ARGV;
if (defined $opt_C || defined $opt_c) {
   $opt_c = ""; # -c on if -C given on command line
   $opt_u = undef;
} elsif (defined $opt_U || defined $opt_u) {
   $opt_u = ""; # -u on if -U given on command line
   $opt_c = undef;
} else {
   $opt_c = ""; # by default, do context diff, not old diff
}

my ($char1, $char2); # string to print before file names
```

```
my $Context_Lines; # lines of context to print
if (defined $opt_c) {
   $Context_Lines = defined $opt_C ? $opt_C : 3;
   $char1 = '*' x 3; $char2 = '-' x 3;
} elsif (defined $opt_u) {
   $Context_Lines = defined $opt_U ? $opt_U : 3;
   $char1 = '-' x 3; $char2 = '+' x 3;
}

# After we've read up to a certain point in each file, the number of items
# we've read from each file will differ by $FLD (could be 0)
my
 $File_Length_Difference = 0;

open (F1, $file1) or bag("Couldn't open $file1: $!");
open (F2, $file2) or bag("Couldn't open $file2: $!");
my (@f1, @f2);
chomp(@f1 = <F1>);
close F1;
chomp(@f2 = <F2>);
close F2;

# diff yields lots of pieces, each of which is basically a Block object
my $diffs = diff(\@f1, \@f2);
exit 0 unless @$diffs;

my $st = stat($file1);
print "$char1 $file1\t", scalar localtime($st->mtime), "\n";
$st = stat($file2);
print "$char2 $file2\t", scalar localtime($st->mtime), "\n";

my ($hunk,$oldhunk);
# Loop over hunks. If a hunk overlaps with the last hunk, join them.
# Otherwise, print out the old one.
foreach my $piece (@$diffs) {
   $hunk = new Hunk ($piece, $Context_Lines);
   next unless $oldhunk;

   if ($hunk->does_overlap($oldhunk)) {
 $hunk->prepend_hunk($oldhunk);
   } else {
 $oldhunk->output_diff(\@f1, \@f2);
   }

} continue {
   $oldhunk = $hunk;
}
```

```
# print the last hunk
$oldhunk->output_diff(\@f1, \@f2);
exit 1;
# END MAIN PROGRAM

sub bag {
 my
 $msg = shift;
 $msg .= "\n";
 warn $msg;
 exit 2;
}

# Package Hunk. A Hunk is a group of Blocks which overlap because of the
# context surrounding each block. (So if we're not using context, every
# hunk will contain one block.)
{
package Hunk;

sub new {
# Arg1 is output from &LCS::diff (which corresponds to one Block)
# Arg2 is the number of items (lines, e.g.,) of context around each block
#
# This subroutine changes $File_Length_Difference
#
# Fields in a Hunk:
# blocks      - a list of Block objects
# start       - index in file 1 where first block of the hunk starts
# end         - index in file 1 where last block of the hunk ends
#
# Variables:
# before_diff - how much longer file 2 is than file 1 due to all hunks
#               until but NOT including this one
# after_diff  - difference due to all hunks including this one
   my ($class, $piece, $context_items) = @_;

   my $block = new Block ($piece); # this modifies $FLD!

   my $before_diff = $File_Length_Difference;
 # BEFORE this hunk
   my $after_diff = $before_diff + $block->{"length_diff"};
   $File_Length_Difference += $block->{"length_diff"};

   # @remove_array and @insert_array hold the items to insert and remove
   # Save the start & beginning of each array. If the array doesn't exist
   # though (e.g., we're only adding items in this block), then figure
   # out the line number based on the line number of the other file and
   # the current difference in file lengths
```

```
  my @remove_array = $block->remove;
  my @insert_array = $block->insert;
  my ($a1, $a2, $b1, $b2, $start1, $start2, $end1, $end2);
  $a1 = @remove_array ? $remove_array[0 ]->{"item_no"} : -1;
  $a2 = @remove_array ? $remove_array[-1]->{"item_no"} : -1;
  $b1 = @insert_array ? $insert_array[0 ]->{"item_no"} : -1;
  $b2 = @insert_array ? $insert_array[-1]->{"item_no"} : -1;

  $start1 = $a1 == -1 ? $b1 - $before_diff : $a1;
  $end1   = $a2 == -1 ? $b2 - $after_diff  : $a2;
  $start2 = $b1 == -1 ?
 $a1 + $before_diff : $b1;
  $end2   = $b2 == -1 ? $a2 + $after_diff  : $b2;

  # At first, a hunk will have just one Block in it
  my $hunk = {
    "start1" => $start1,
    "start2" => $start2,
    "end1" => $end1,
    "end2" => $end2,
    "blocks" => [$block],
          };
  bless $hunk, $class;

  $hunk->flag_context($context_items);

  return $hunk;
}

# Change the "start" and "end" fields to note that context should be added
# to this hunk
sub flag_context {
  my ($hunk, $context_items) = @_;
  return unless $context_items; # no context

  # add context before
  my $start1 = $hunk->{"start1"};
  my $num_added = $context_items > $start1 ? $start1 : $context_items;
  $hunk->{"start1"} -= $num_added;
  $hunk->{"start2"} -= $num_added;

  # context after
  my $end1 = $hunk->{"end1"};
  $num_added = ($end1+$context_items > $#f1) ?
             $#f1 - $end1 :
             $context_items;
  $hunk->{"end1"} += $num_added;
  $hunk->{"end2"}
```

```
 += $num_added;
}

# Is there an overlap between hunk arg0 and old hunk arg1?
# Note: if end of old hunk is one less than beginning of second, they overlap
sub does_overlap {
   my ($hunk, $oldhunk) = @_;
   return "" unless $oldhunk; # first time through, $oldhunk is empty

   # Do I actually need to test both?
   return ($hunk->{"start1"} - $oldhunk->{"end1"} <= 1 ||
           $hunk->{"start2"} - $oldhunk->{"end2"} <= 1);
}

# Prepend hunk arg1 to hunk arg0
# Note that arg1 isn't updated! Only arg0 is.
sub prepend_hunk {
   my ($hunk, $oldhunk) = @_;

   $hunk->{"start1"} = $oldhunk->{"start1"};
   $hunk->{"start2"} = $oldhunk->{"start2"};

   unshift (@{$hunk->{"blocks"}}, @{$oldhunk->{"blocks"}});
}


# DIFF OUTPUT ROUTINES. THESE ROUTINES CONTAIN DIFF FORMATTING INFO...
sub output_diff {
   if    (defined $main::opt_u) {&output_unified_diff(@_)}
   elsif (defined $main::opt_c) {&output_context_diff(@_)}
   else {die "unknown diff"}
}

sub output_unified_diff {

  my ($hunk, $fileref1, $fileref2) = @_;
   my @blocklist;

   # Calculate item number range.
   my $range1 = $hunk->unified_range(1);
   my $range2 = $hunk->unified_range(2);
   print "@@ -$range1 +$range2 @@\n";

   # Outlist starts containing the hunk of file 1.
   # Removing an item just means putting a '-' in front of it.
   # Inserting an item requires getting it from file2 and splicing it in.
   #    We splice in $num_added items. Remove blocks use $num_added because
   # splicing changed the length of outlist.
```

```
  #    We remove $num_removed items. Insert blocks use $num_removed because
  # their item numbers---corresponding to positions in file *2*--- don't take
  # removed items into account.
  my $low = $hunk->{"start1"};
  my $hi = $hunk->{"end1"};
  my ($num_added, $num_removed) = (0,0);
  my @outlist = @$fileref1[$low..$hi];
  map {s/^/ /} @outlist; # assume it's just context

  foreach my $block (@{$hunk->{"blocks"}}) {
 foreach my $item ($block->remove)
 {
    my $op = $item->{"sign"}; # -
    my $offset = $item->{"item_no"} - $low + $num_added;
    $outlist[$offset] =~ s/^ /$op/;
    $num_removed++;
 }
 foreach my $item ($block->insert) {
    my $op = $item->{"sign"}; # +
    my $i = $item->{"item_no"};
    my $offset = $i - $hunk->{"start2"} + $num_removed;
    splice(@outlist,$offset,0,"$op$$fileref2[$i]");
    $num_added++;
 }
  }

  map {s/$/\n/} @outlist; # add \n's
  print @outlist;

}

sub output_context_diff {
  my ($hunk, $fileref1, $fileref2) = @_;
  my @blocklist;

  print "****************\n";
  # Calculate item number range.
  my $range1 = $hunk->context_range(1);
  my $range2 = $hunk->context_range(2);

  # Print out file 1 part for each block in context diff format if there are
  # any blocks that remove items
  print "*** $range1 ****\n";
  my $low = $hunk->{"start1"};
  my $hi  = $hunk->{"end1"};
  if (@blocklist = grep {$_->remove} @{$hunk->{"blocks"}}) {
 my @outlist =
```

```
 @$fileref1[$low..$hi];
 map {s/^/  /} @outlist; # assume it's just context
 foreach my $block (@blocklist) {
     my $op = $block->op; # - or !
     foreach my $item ($block->remove) {
  $outlist[$item->{"item_no"} - $low] =~ s/^ /$op/;
     }
 }
 map {s/$/\n/} @outlist; # add \n's
 print @outlist;
   }

   print "--- $range2 ----\n";
   $low = $hunk->{"start2"};
   $hi  = $hunk->{"end2"};
   if (@blocklist = grep {$_->insert} @{$hunk->{"blocks"}}) {
 my @outlist = @$fileref2[$low..$hi];
 map {s/^/  /} @outlist; # assume it's just context
 foreach my $block (@blocklist) {
     my $op = $block->op; # + or !
     foreach my $item ($block->insert) {
  $outlist[$item->{"item_no"} - $low] =~ s/^ /$op/;
     }
 }
 map {s/$/\n/} @outlist; # add \n's
 print @outlist;
   }
}

sub context_range {
# Generate a range of item numbers to print. Only print 1 number if the range
# has only one item in it. Otherwise, it's 'start,end'
   my ($hunk, $flag) = @_;
   my ($start, $end) = ($hunk->{"start$flag"},$hunk->{"end$flag"});
    $start++; $end++;  # index from 1, not zero
   my $range = ($start < $end) ? "$start,$end" : $end;
   return $range;
}

sub unified_range {
# Generate a range of item numbers to print for unified diff
# Print number where block starts, followed by number of lines in the block
# (don't print number of lines if it's 1)
   my ($hunk, $flag) = @_;
   my ($start, $end) = ($hunk->{"start$flag"},$hunk->{"end$flag"});
   $start++; $end++;  # index from 1, not zero
   my $length = $end - $start + 1;
   my $first = $length < 2 ? $end : $start; # strange, but correct...
```

```
   my $range = $length== 1 ? $first : "$first,$length";
   return $range;
}
} # end Package Hunk

# Package Block. A block is an operation removing, adding, or changing
# a group of items. Basically, this is just a list of changes, where each
# change adds or deletes a single item.
# (Change could be a separate class, but it didn't seem worth it)
{
package Block;
sub new {
# Input is
 a chunk from &Algorithm::LCS::diff
# Fields in a block:
# length_diff - how much longer file 2 is than file 1 due to this block
# Each change has:
# sign        - '+' for insert, '-' for remove
# item_no     - number of the item in the file (e.g., line number)
# We don't bother storing the text of the item
#
   my ($class,$chunk) = @_;
   my @changes = ();

# This just turns each change into a hash.
   foreach my $item (@$chunk) {
 my ($sign, $item_no, $text) = @$item;
 my $hashref = {"sign" => $sign, "item_no" => $item_no};
 push @changes, $hashref;
   }

   my $block = { "changes" => \@changes };
   bless $block, $class;

   $block->{"length_diff"} = $block->insert - $block->remove;
   return $block;
}


# LOW LEVEL FUNCTIONS
sub op {
# what kind of block is this?
   my $block = shift;
   my $insert = $block->insert;
   my $remove = $block->remove;

   $remove && $insert and return '!';
   $remove and return '-';
```

```
   $insert and return '+';
   warn "unknown block type";
    return '^'; # context block
}

# Returns a list of the changes in this block that remove items
# (or the number of removals if called in scalar context)
sub remove { return grep {$_->{"sign"} eq '-'} @{shift->{"changes"}}; }

# Returns a list of the changes in this block that insert items
sub insert { return grep {$_->{"sign"} eq '+'} @{shift->{"changes"}}; }

} # end of package Block
```

Found in path(s):
* /opt/cola/permits/1243141483_1682106599.4271843/0/libalgorithm-diff-perl-1-201-orig-tar-gz/Algorithm-Diff-1.201/bin/cdiff.pl
No license file was found, but licenses were detected in source scan.

```
# This program is free software; you can redistribute it and/or modify it
# under the same terms as Perl itself.
```

Found in path(s):
* /opt/cola/permits/1243141483_1682106599.4271843/0/libalgorithm-diff-perl-1-201-orig-tar-gz/Algorithm-Diff-1.201/bin/diffnew.pl
No license file was found, but licenses were detected in source scan.

```
=head1 NAME

Algorithm::Diff - Compute `intelligent' differences between two files / lists

=head1 SYNOPSIS

   require Algorithm::Diff;

   # This example produces traditional 'diff' output:

   my $diff = Algorithm::Diff->new( \@seq1, \@seq2 );

   $diff->Base( 1 );   # Return line numbers, not indices
   while(  $diff->Next()  ) {
      next   if  $diff->Same();
      my $sep = '';
      if(  ! $diff->Items(2)  ) {
         printf "%d,%dd%d\n",
            $diff->Get(qw( Min1 Max1 Max2 ));
      } elsif(  ! $diff->Items(1)  ) {
         printf "%da%d,%d\n",
```

```
            $diff->Get(qw( Max1 Min2 Max2 ));
    } else {
        $sep = "---\n";
        printf "%d,%dc%d,%d\n",
            $diff->Get(qw( Min1 Max1 Min2 Max2 ));
    }
    print "< $_"   for  $diff->Items(1);
    print $sep;
    print "> $_"   for  $diff->Items(2);
}


# Alternate interfaces:

 use Algorithm::Diff qw(
    LCS LCS_length LCSidx
    diff sdiff compact_diff
    traverse_sequences traverse_balanced );

@lcs    = LCS( \@seq1, \@seq2 );
$lcsref = LCS( \@seq1, \@seq2 );
$count  = LCS_length( \@seq1, \@seq2 );

( $seq1idxref, $seq2idxref ) = LCSidx( \@seq1, \@seq2 );


# Complicated interfaces:

@diffs  = diff( \@seq1, \@seq2 );

@sdiffs = sdiff( \@seq1, \@seq2 );

@cdiffs = compact_diff( \@seq1, \@seq2 );

traverse_sequences(
    \@seq1,
    \@seq2,
    {   MATCH     => \&callback1,
        DISCARD_A => \&callback2,
        DISCARD_B => \&callback3,
    },
    \&key_generator,
    @extra_args,
);

traverse_balanced(
    \@seq1,
    \@seq2,
```

```
    {   MATCH     => \&callback1,
        DISCARD_A => \&callback2,
        DISCARD_B => \&callback3,
        CHANGE    => \&callback4,
    },
    \&key_generator,
    @extra_args,
  );
```

=head1 INTRODUCTION

(by
 Mark-Jason Dominus)

I once read an article written by the authors of C<diff>; they said
that they worked very hard on the algorithm until they found the
right one.

I think what they ended up using (and I hope someone will correct me,
because I am not very confident about this) was the `longest common
subsequence' method. In the LCS problem, you have two sequences of
items:

```
  a b c d f g h j q z

  a b c d e f g i j k r x y z
```

and you want to find the longest sequence of items that is present in
both original sequences in the same order. That is, you want to find
a new sequence I<S> which can be obtained from the first sequence by
deleting some items, and from the second sequence by deleting other
items. You also want I<S> to be as long as possible. In this case I<S>
is

```
  a b c d f g j z
```

From there it's only a small step to get diff-like output:

```
  e  h i  k  q r x y
  +  - +  +  - + + +
```

This module solves the LCS problem. It also includes a canned
 function
to generate C<diff>-like output.

It might seem from the example above that the LCS of two sequences is
always pretty obvious, but that's not always the case, especially when

the two sequences have many repeated elements. For example, consider

```
a x b y c z p d q
a b c a x b y c z
```

A naive approach might start by matching up the C<a> and C<b> that appear at the beginning of each sequence, like this:

```
a x b y c       z p d q
a   b   c a b y c z
```

This finds the common subsequence C<a b c z>. But actually, the LCS is C<a x b y c z>:

```
      a x b y c z p d q
a b c a x b y c z
```

or

```
a       x b y c z p d q
a b c a x b y c z
```

=head1 USAGE

(See also the README file and several example scripts include with this module.)

This module now provides an object-oriented interface that uses less memory and is easier to use than most of the previous procedural interfaces. It also still provides several exportable functions. We'll deal with these in ascending order of difficulty: C<LCS>, C<LCS_length>, C<LCSidx>, OO interface, C<prepare>, C<diff>, C<sdiff>, C<traverse_sequences>, and C<traverse_balanced>.

=head2 C<LCS>

Given references to two lists of items, LCS returns an array containing their longest common subsequence. In scalar context, it returns a reference to such a list.

```
@lcs    = LCS( \@seq1, \@seq2 );
$lcsref = LCS( \@seq1, \@seq2 );
```

C<LCS> may be passed an optional third parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

```
@lcs    = LCS( \@seq1, \@seq2, \&keyGen, @args );
$lcsref = LCS( \@seq1, \@seq2, \&keyGen, @args );
```

Additional parameters, if any, will be passed to the key generation
routine.

=head2 C<LCS_length>

This is just like C<LCS> except it only returns the length of the
longest common subsequence. This provides a performance gain of about
9% compared to C<LCS>.

=head2 C<LCSidx>

Like C<LCS> except it returns references to two arrays. The
first array
contains the indices into @seq1 where the LCS items are located. The
second array contains the indices into @seq2 where the LCS items are located.

Therefore, the following three lists will contain the same values:

```
my( $idx1, $idx2 ) = LCSidx( \@seq1, \@seq2 );
my @list1 = @seq1[ @$idx1 ];
my @list2 = @seq2[ @$idx2 ];
my @list3 = LCS( \@seq1, \@seq2 );
```

=head2 C<new>

```
$diff = Algorithm::Diff->new( \@seq1, \@seq2 );
$diff = Algorithm::Diff->new( \@seq1, \@seq2, \%opts );
```

C<new> computes the smallest set of additions and deletions necessary
to turn the first sequence into the second and compactly records them
in the object.

You use the object to iterate over I<hunks>, where each hunk represents
a contiguous section of items which should be added, deleted, replaced,
or left unchanged.

The following summary of all of the methods looks a lot like Perl code
but some of the symbols have different meanings:

```
[ ]     Encloses optional arguments

:       Is followed by the default value for an optional argument
|       Separates alternate return results
```

Method summary:

```
$obj       = Algorithm::Diff->new( \@seq1, \@seq2, [ \%opts ] );
$pos       = $obj->Next(  [ $count : 1 ] );
$revPos    = $obj->Prev(  [ $count : 1 ] );
$obj       = $obj->Reset( [ $pos : 0 ] );
$copy      = $obj->Copy(  [ $pos, [ $newBase ] ] );
$oldBase   = $obj->Base(  [ $newBase ] );
```

Note that all of the following methods C<die> if used on an object that is "reset" (not currently pointing at any hunk).

```
$bits      = $obj->Diff(  );
@items|$cnt = $obj->Same(  );
@items|$cnt = $obj->Items( $seqNum );
@idxs |$cnt = $obj->Range( $seqNum, [ $base ] );
$minIdx    = $obj->Min(   $seqNum, [ $base ] );
$maxIdx    = $obj->Max(   $seqNum, [ $base ] );
@values    = $obj->Get(   @names );
```

Passing in C<undef> for an optional argument is always treated the same as if no argument were passed in.

=over 4

=item
C<Next>

```
$pos = $diff->Next();    # Move forward 1 hunk
$pos = $diff->Next( 2 ); # Move forward 2 hunks
$pos = $diff->Next(-5);  # Move backward 5 hunks
```

C<Next> moves the object to point at the next hunk. The object starts out "reset", which means it isn't pointing at any hunk. If the object is reset, then C<Next()> moves to the first hunk.

C<Next> returns a true value iff the move didn't go past the last hunk. So C<Next(0)> will return true iff the object is not reset.

Actually, C<Next> returns the object's new position, which is a number between 1 and the number of hunks (inclusive), or returns a false value.

=item C<Prev>

C<Prev($N)> is almost identical to C<Next(-$N)>; it moves to the $Nth previous hunk. On a 'reset' object, C<Prev()> [and C<Next(-1)>] move to the last hunk.

The position returned by C<Prev> is relative to the I<end> of the

hunks; -1 for the last hunk, -2 for the second-to-last, etc.

=item C<Reset>

```
  $diff->Reset();     # Reset the object's
 position
  $diff->Reset($pos); # Move to the specified hunk
  $diff->Reset(1);    # Move to the first hunk
  $diff->Reset(-1);   # Move to the last hunk
```

C<Reset> returns the object, so, for example, you could use
C<< $diff->Reset()->Next(-1) >> to get the number of hunks.

=item C<Copy>

```
  $copy = $diff->Copy( $newPos, $newBase );
```

C<Copy> returns a copy of the object. The copy and the original object
share most of their data, so making copies takes very little memory.
The copy maintains its own position (separate from the original), which
is the main purpose of copies. It also maintains its own base.

By default, the copy's position starts out the same as the original
object's position. But C<Copy> takes an optional first argument to set the
new position, so the following three snippets are equivalent:

```
  $copy = $diff->Copy($pos);

  $copy = $diff->Copy();
  $copy->Reset($pos);

  $copy = $diff->Copy()->Reset($pos);
```

C<Copy> takes an optional second argument
 to set the base for
the copy. If you wish to change the base of the copy but leave
the position the same as in the original, here are two
equivalent ways:

```
  $copy = $diff->Copy();
  $copy->Base( 0 );

  $copy = $diff->Copy(undef,0);
```

Here are two equivalent way to get a "reset" copy:

```
  $copy = $diff->Copy(0);
```

```
  $copy = $diff->Copy()->Reset();
```

=item C<Diff>

```
  $bits = $obj->Diff();
```

C<Diff> returns a true value iff the current hunk contains items that are different between the two sequences. It actually returns one of the follow 4 values:

=over 4

=item Z<>3

C<3==(1|2)>. This hunk contains items from @seq1 and the items from @seq2 that should replace them. Both sequence 1 and 2 contain changed items so both the 1 and 2 bits are set.

=item Z<>2

This hunk only contains items from @seq2 that should be inserted (not items from @seq1). Only sequence 2 contains changed items so only the 2 bit is set.

=item Z<>1

This hunk only contains items from @seq1 that should
be deleted (not
items from @seq2). Only sequence 1 contains changed items so only the 1 bit is set.

=item Z<>0

This means that the items in this hunk are the same in both sequences. Neither sequence 1 nor 2 contain changed items so neither the 1 nor the 2 bits are set.

=back

=item C<Same>

C<Same> returns a true value iff the current hunk contains items that are the same in both sequences. It actually returns the list of items if they are the same or an empty list if they aren't. In a scalar context, it returns the size of the list.

=item C<Items>

```
  $count = $diff->Items(2);
  @items = $diff->Items($seqNum);
```

C<Items> returns the (number of) items from the specified sequence that are part of the current hunk.

If the current hunk contains only insertions, then C<< $diff->Items(1) >> will return an empty list (0 in a scalar context). If the current hunk contains only deletions, then C<< $diff->Items(2) >> will return an empty list (0 in a scalar context).

If the hunk contains replacements, then both C<< $diff->Items(1) >> and C<< $diff->Items(2) >> will return different, non-empty lists.

Otherwise, the hunk contains identical items and all of the following will return the same lists:

```
  @items = $diff->Items(1);
  @items = $diff->Items(2);
  @items = $diff->Same();
```

=item C<Range>

```
  $count = $diff->Range( $seqNum );
  @indices = $diff->Range( $seqNum );
  @indices = $diff->Range( $seqNum, $base );
```

C<Range> is like C<Items> except that it returns a list of I<indices> to the items rather than the items themselves. By default, the index of the first item (in each sequence) is 0 but this can be changed by calling the C<Base> method. So, by default, the following two snippets return the same lists:

```
  @list = $diff->Items(2);
  @list = @seq2[ $diff->Range(2) ];
```

You can also specify the base to use as the second argument. So the following two snippets I<always> return the same lists:

```
  @list = $diff->Items(1);
  @list = @seq1[ $diff->Range(1,0)
 ];
```

=item C<Base>

```
  $curBase = $diff->Base();
  $oldBase = $diff->Base($newBase);
```

C<Base> sets and/or returns the current base (usually 0 or 1) that is used when you request range information. The base defaults to 0 so that range information is returned as array indices. You can set the base to 1 if you want to report traditional line numbers instead.

=item C<Min>

```
$min1 = $diff->Min(1);
$min = $diff->Min( $seqNum, $base );
```

C<Min> returns the first value that C<Range> would return (given the same arguments) or returns C<undef> if C<Range> would return an empty list.

=item C<Max>

C<Max> returns the last value that C<Range> would return or C<undef>.

=item C<Get>

```
( $n, $x, $r ) = $diff->Get(qw( min1 max1 range1 ));
@values = $diff->Get(qw( 0min2 1max2 range2 same base ));
```

C<Get> returns one or more scalar values. You pass in a list of the names of the values you want returned. Each name must match one of the following regexes:

```
/^(-?\d+)?(min|max)[12]$/i
 /^(range[12]|same|diff|base)$/i
```

The 1 or 2 after a name says which sequence you want the information for (and where allowed, it is required). The optional number before "min" or "max" is the base to use. So the following equalities hold:

```
$diff->Get('min1') == $diff->Min(1)
$diff->Get('0min2') == $diff->Min(2,0)
```

Using C<Get> in a scalar context when you've passed in more than one name is a fatal error (C<die> is called).

=back

=head2 C<prepare>

Given a reference to a list of items, C<prepare> returns a reference to a hash which can be used when comparing this sequence to other sequences with C<LCS> or C<LCS_length>.

```
$prep = prepare( \@seq1 );
for $i ( 0 .. 10_000 )
{
    @lcs = LCS( $prep, $seq[$i] );
    # do something useful with @lcs
}
```

C<prepare> may be passed an optional third parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

```
$prep = prepare( \@seq1, \&keyGen );

for $i ( 0 .. 10_000 )
{
    @lcs = LCS( $seq[$i], $prep, \&keyGen );
    # do something useful with @lcs
}
```

Using C<prepare> provides a performance gain of about 50% when calling LCS many times compared with not preparing.

=head2 C<diff>

```
@diffs     = diff( \@seq1, \@seq2 );
$diffs_ref = diff( \@seq1, \@seq2 );
```

C<diff> computes the smallest set of additions and deletions necessary to turn the first sequence into the second, and returns a description of these changes. The description is a list of I<hunks>; each hunk represents a contiguous section of items which should be added, deleted, or replaced. (Hunks containing unchanged items are not included.)

The return value of C<diff> is a list of hunks, or, in scalar context, a reference to such a list. If there are no differences, the list will be empty.

Here is an example. Calling C<diff> for the following two sequences:

```
a b c e h j l m n p
b c d e f j k l m r s t
```

would produce the following list:

```
(
 [ [ '-', 0, 'a' ] ],
```

```
    [ [ '+', 2, 'd' ] ],

    [ [ '-', 4, 'h' ],
      [ '+', 4, 'f' ] ],

    [ [ '+', 6, 'k' ] ],

    [ [ '-',  8, 'n' ],
      [ '-',  9, 'p' ],
      [ '+',  9, 'r' ],
      [ '+', 10, 's' ],
      [ '+', 11, 't' ] ],
  )
```

There are five hunks here. The first hunk says that the C<a> at position 0 of the first sequence should be deleted (C<->). The second hunk says that the C<d> at position 2 of the second sequence should be inserted (C<+>). The third hunk says that the C<h> at position 4 of the first sequence should be removed and replaced with the C<f> from position 4 of the second sequence. And so on.

C<diff> may be passed an optional third parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

Additional parameters, if any, will be passed to the key generation routine.

=head2 C<sdiff>

```
  @sdiffs     = sdiff( \@seq1, \@seq2 );
  $sdiffs_ref = sdiff( \@seq1, \@seq2
 );
```

C<sdiff> computes all necessary components to show two sequences and their minimized differences side by side, just like the Unix-utility I<sdiff> does:

```
  same            same
  before    |     after
  old       <     -
  -         >     new
```

It returns a list of array refs, each pointing to an array of display instructions. In scalar context it returns a reference to such a list. If there are no differences, the list will have one entry per item, each indicating that the item was unchanged.

Display instructions consist of three elements: A modifier indicator (C<+>: Element added, C<->: Element removed, C<u>: Element unmodified, C<c>: Element changed) and the value of the old and new elements, to be displayed side-by-side.

An C<sdiff> of the following two sequences:

```
a b c e h j l m n p
b c d e f j k l m r s t
```

results in

```
( [ '-', 'a', '' ],
  [ 'u', 'b', 'b' ],
  [ 'u', 'c', 'c' ],
  [ '+', '', 'd' ],
  [ 'u', 'e', 'e' ],
  [ 'c',
'h', 'f' ],
  [ 'u', 'j', 'j' ],
  [ '+', '', 'k' ],
  [ 'u', 'l', 'l' ],
  [ 'u', 'm', 'm' ],
  [ 'c', 'n', 'r' ],
  [ 'c', 'p', 's' ],
  [ '+', '', 't' ],
)
```

C<sdiff> may be passed an optional third parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

Additional parameters, if any, will be passed to the key generation routine.

=head2 C<compact_diff>

C<compact_diff> is much like C<sdiff> except it returns a much more compact description consisting of just one flat list of indices. An example helps explain the format:

```
my @a = qw( a b c   e  h j   l m n p      );
my @b = qw(   b c d e f  j k l m    r s t );
@cdiff = compact_diff( \@a, \@b );
# Returns:
#   @a      @b       @a       @b
#  start   start   values   values
```

```
(   0,     0,  #      =
    0,     0,  #   a  !
    1,     0,  # b c  =  b c
    3,     2,  #      !  d
    3,     3,  #
e  =  e
    4,     4,  #   f  !  h
    5,     5,  #   j  =  j
    6,     6,  #      !  k
    6,     7,  # l m  =  l m
    8,     9,  # n p  !  r s t
   10,    12,  #
);
```

The 0th, 2nd, 4th, etc. entries are all indices into @seq1 (@a in the above example) indicating where a hunk begins. The 1st, 3rd, 5th, etc. entries are all indices into @seq2 (@b in the above example) indicating where the same hunk begins.

So each pair of indices (except the last pair) describes where a hunk begins (in each sequence). Since each hunk must end at the item just before the item that starts the next hunk, the next pair of indices can be used to determine where the hunk ends.

So, the first 4 entries (0..3) describe the first hunk. Entries 0 and 1 describe where the first hunk begins (and so are always both 0). Entries 2 and 3 describe where the next hunk begins, so subtracting 1 from each tells us where the first hunk ends. That is, the first hunk contains
items C<$diff[0]> through C<$diff[2] - 1> of the first sequence and contains items C<$diff[1]> through C<$diff[3] - 1> of the second sequence.

In other words, the first hunk consists of the following two lists of items:

```
          #  1st pair     2nd pair
          # of indices   of indices
@list1 = @a[ $cdiff[0] .. $cdiff[2]-1 ];
@list2 = @b[ $cdiff[1] .. $cdiff[3]-1 ];
          # Hunk start   Hunk end
```

Note that the hunks will always alternate between those that are part of the LCS (those that contain unchanged items) and those that contain changes. This means that all we need to be told is whether the first hunk is a 'same' or 'diff' hunk and we can determine which of the other hunks contain 'same' items or 'diff' items.

By convention, we always make the first hunk contain unchanged items.

So the 1st, 3rd, 5th, etc. hunks (all odd-numbered hunks if you start counting from 1) all contain unchanged items. And the 2nd, 4th, 6th, etc. hunks (all even-numbered hunks if you start counting from 1) all contain changed items.

Since @a and @b don't begin with the same value, the first hunk in our example is empty (otherwise we'd violate the above convention). Note that the first 4 index values in our example are all zero. Plug these values into our previous code block and we get:

```
@hunk1a = @a[ 0 .. 0-1 ];
@hunk1b = @b[ 0 .. 0-1 ];
```

And C<0..-1> returns the empty list.

Move down one pair of indices (2..5) and we get the offset ranges for the second hunk, which contains changed items.

Since C<@diff[2..5]> contains (0,0,1,0) in our example, the second hunk consists of these two lists of items:

```
    @hunk2a = @a[ $cdiff[2] .. $cdiff[4]-1 ];
    @hunk2b = @b[ $cdiff[3] .. $cdiff[5]-1 ];
# or
    @hunk2a = @a[ 0 .. 1-1 ];
    @hunk2b = @b[ 0 .. 0-1 ];
# or
    @hunk2a = @a[ 0 .. 0 ];
    @hunk2b = @b[ 0 .. -1 ];
# or
    @hunk2a = ( 'a' );
    @hunk2b = ( );
```

That is, we would delete item 0 ('a') from @a.

Since C<@diff[4..7]> contains (1,0,3,2) in our example, the third hunk consists of these two lists of items:

```
    @hunk3a = @a[ $cdiff[4] .. $cdiff[6]-1 ];
    @hunk3a = @b[ $cdiff[5] .. $cdiff[7]-1 ];
# or
    @hunk3a = @a[ 1 .. 3-1 ];
    @hunk3a = @b[ 0 .. 2-1 ];
# or
    @hunk3a = @a[ 1 .. 2 ];
    @hunk3a = @b[ 0 .. 1 ];
```

```
  # or
     @hunk3a = qw( b c );
     @hunk3a = qw( b c );
```

Note that this third hunk contains unchanged items as our convention demands.

You can continue this process until you reach the last two indices, which will always be the number of items in each sequence. This is required so that subtracting one from each will give you the indices to the last items in each sequence.

=head2 C<traverse_sequences>

C<traverse_sequences> used to be the most general facility provided by this module (the new OO interface is more powerful and much easier to use).

Imagine that there are two arrows. Arrow A points to an element of sequence A, and arrow B points to an element of the sequence B. Initially, the arrows point to the first elements of the respective sequences. C<traverse_sequences> will advance the arrows through the sequences one element at a time, calling an appropriate user-specified callback function before each advance. It will advance the arrows in such a way that if there are equal elements C<$A[$i]> and C<$B[$j]> which are equal and which are part of the LCS, there will be some moment during the execution of C<traverse_sequences> when arrow A is pointing to C<$A[$i]> and arrow B is pointing to C<$B[$j]>. When this happens, C<traverse_sequences> will call the C<MATCH> callback function and then it will advance both arrows.

Otherwise, one of the arrows is pointing to an element of its sequence that is not part of the LCS. C<traverse_sequences> will advance that arrow and will call the C<DISCARD_A> or the C<DISCARD_B> callback, depending on which arrow it advanced. If both arrows point to elements that are not part of the LCS, then C<traverse_sequences> will advance one of them and call the appropriate callback, but it is not specified which it will call.

The arguments to C<traverse_sequences> are the two sequences to traverse, and a hash which specifies the callback functions, like this:

```
  traverse_sequences(
     \@seq1, \@seq2,
     {   MATCH => $callback_1,
         DISCARD_A => $callback_2,
         DISCARD_B => $callback_3,
```

```
    }
  );
```

Callbacks for MATCH, DISCARD_A, and DISCARD_B are invoked with at least the indices of the two arrows as their arguments. They are not expected to return any values. If a callback is omitted from the table, it is not called.

Callbacks for A_FINISHED and B_FINISHED are invoked with at least the corresponding index in A or B.

If arrow A reaches the end of its sequence, before arrow B does, C<traverse_sequences> will call the C<A_FINISHED> callback when it advances arrow B, if there is such a function;
if not it will call
C<DISCARD_B> instead. Similarly if arrow B finishes first.
C<traverse_sequences> returns when both arrows are at the ends of their respective sequences. It returns true on success and false on failure.
At present there is no way to fail.

C<traverse_sequences> may be passed an optional fourth parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

Additional parameters, if any, will be passed to the key generation function.

If you want to pass additional parameters to your callbacks, but don't need a custom key generation function, you can get the default by passing undef:

```
  traverse_sequences(
    \@seq1, \@seq2,
    {   MATCH => $callback_1,
        DISCARD_A => $callback_2,
        DISCARD_B => $callback_3,
    },
    undef,     # default key-gen
    $myArgument1,
    $myArgument2,
    $myArgument3,
  );
```

C<traverse_sequences> does not have a useful return value; you
are
expected to plug in the appropriate behavior with the callback functions.

=head2 C<traverse_balanced>

C<traverse_balanced> is an alternative to C<traverse_sequences>. It
uses a different algorithm to iterate through the entries in the
computed LCS. Instead of sticking to one side and showing element changes
as insertions and deletions only, it will jump back and forth between
the two sequences and report I<changes> occurring as deletions on one
side followed immediately by an insertion on the other side.

In addition to the C<DISCARD_A>, C<DISCARD_B>, and C<MATCH> callbacks
supported by C<traverse_sequences>, C<traverse_balanced> supports
a C<CHANGE> callback indicating that one element got C<replaced> by another:

```
  traverse_balanced(
     \@seq1, \@seq2,
     {   MATCH => $callback_1,
         DISCARD_A => $callback_2,
         DISCARD_B => $callback_3,
         CHANGE    => $callback_4,
     }
  );
```

If no C<CHANGE> callback is specified, C<traverse_balanced>
will
 map C<CHANGE> events to C<DISCARD_A> and C<DISCARD_B> actions,
therefore resulting in a similar behaviour as C<traverse_sequences>
with different order of events.

C<traverse_balanced> might be a bit slower than C<traverse_sequences>,
noticeable only while processing huge amounts of data.

The C<sdiff> function of this module is implemented as call to
C<traverse_balanced>.

C<traverse_balanced> does not have a useful return value; you are expected to
plug in the appropriate behavior with the callback functions.

=head1 KEY GENERATION FUNCTIONS

Most of the functions accept an optional extra parameter. This is a
CODE reference to a key generating (hashing) function that should return
a string that uniquely identifies a given element. It should be the
case that if two elements are to be considered equal, their keys should
be the same (and the other way around). If no key generation function
is provided, the key will be the element as a string.

By default, comparisons will
 use "eq" and elements will be turned into keys
using the default stringizing operator """".

Where this is important is when you're comparing something other than strings. If it is the case that you have multiple different objects that should be considered to be equal, you should supply a key generation function. Otherwise, you have to make sure that your arrays contain unique references.

For instance, consider this example:

```
package Person;

sub new
{
    my $package = shift;
    return bless { name => '', ssn => '', @_ }, $package;
}

sub clone
{
    my $old = shift;
    my $new = bless { %$old }, ref($old);
}

sub hash
{
    return shift()->{'ssn'};
}

my $person1 = Person->new( name => 'Joe', ssn => '123-45-6789' );
my $person2 = Person->new( name => 'Mary', ssn => '123-47-0000' );
my $person3 = Person->new( name => 'Pete', ssn => '999-45-2222' );
my $person4 = Person->new( name => 'Peggy', ssn => '123-45-9999'
);
my $person5 = Person->new( name => 'Frank', ssn => '000-45-9999' );
```

If you did this:

```
my $array1 = [ $person1, $person2, $person4 ];
my $array2 = [ $person1, $person3, $person4, $person5 ];
Algorithm::Diff::diff( $array1, $array2 );
```

everything would work out OK (each of the objects would be converted into a string like "Person=HASH(0x82425b0)" for comparison).

But if you did this:

```
my $array1 = [ $person1, $person2, $person4 ];
my $array2 = [ $person1, $person3, $person4->clone(), $person5 ];
```

```
   Algorithm::Diff::diff( $array1, $array2 );
```

$person4 and $person4->clone() (which have the same name and SSN)
would be seen as different objects. If you wanted them to be considered
equivalent, you would have to pass in a key generation function:

```
   my $array1 = [ $person1, $person2, $person4 ];
   my $array2 = [ $person1, $person3, $person4->clone(), $person5 ];
   Algorithm::Diff::diff( $array1, $array2, \&Person::hash );
```

This would use the 'ssn' field
 in each Person as a comparison key, and
so would consider $person4 and $person4->clone() as equal.

You may also pass additional parameters to the key generation function
if you wish.

=head1 ERROR CHECKING

If you pass these routines a non-reference and they expect a reference,
they will die with a message.

=head1 AUTHOR

This version released by Tye McQueen (http://perlmonks.org/?node=tye).

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=head1 MAILING LIST

Mark-Jason still maintains a mailing list. To join a low-volume mailing
list for announcements related to diff and Algorithm::Diff, send an
empty mail message to mjd-perl-diff-request@plover.com.

=head1 CREDITS

Versions through 0.59 (and much of this documentation) were written by:

Mark-Jason Dominus

This version borrows some documentation and routine names from
Mark-Jason's,

but Diff.pm's code was completely replaced.

This code was adapted from the Smalltalk code of Mario Wolczko
<mario@wolczko.com>, which is available at
ftp://st.cs.uiuc.edu/pub/Smalltalk/MANCHESTER/manchester/4.0/diff.st

C<sdiff> and C<traverse_balanced> were written by Mike Schilli
<m@perlmeister.com>.

The algorithm is that described in
I<A Fast Algorithm for Computing Longest Common Subsequences>,
CACM, vol.20, no.5, pp.350-353, May 1977, with a few
minor improvements to improve the speed.

Much work was done by Ned Konz (perl@bike-nomad.com).

The OO interface and some other changes are by Tye McQueen.

=cut

Found in path(s):
* /opt/cola/permits/1243141483_1682106599.4271843/0/libalgorithm-diff-perl-1-201-orig-tar-gz/Algorithm-Diff-1.201/lib/Algorithm/Diff.pm
No license file was found, but licenses were detected in source scan.

---
abstract: unknown
author:
 - unknown
build_requires:
 ExtUtils::MakeMaker: '0'
configure_requires:
 ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.46, CPAN::Meta::Converter version 2.150010'
license: unknown
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: '1.4'
name: Algorithm-Diff
no_index:
 directory:
   - t
   - inc
version: '1.201'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):

* /opt/cola/permits/1243141483_1682106599.4271843/0/libalgorithm-diff-perl-1-201-orig-tar-gz/Algorithm-Diff-1.201/META.yml
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```
#!/usr/bin/perl
#
# `Diff' program in Perl
# Copyright 1998 M-J. Dominus. (mjd-perl-diff@plover.com)
#
# This program is free software; you can redistribute it and/or modify it
# under the same terms as Perl itself.
#

use Algorithm::Diff qw(diff);

bag("Usage: $0 oldfile newfile") unless @ARGV == 2;

my ($file1, $file2) = @ARGV;

# -f $file1 or bag("$file1: not a regular file");
# -f $file2 or bag("$file2: not a regular file");

-T $file1 or bag("$file1: binary");
-T $file2 or bag("$file2: binary");

open (F1, $file1) or bag("Couldn't open $file1: $!");
open (F2, $file2) or bag("Couldn't open $file2: $!");
chomp(@f1 = <F1>);
close F1;
chomp(@f2 = <F2>);
close F2;

$diffs = diff(\@f1, \@f2);
exit 0 unless @$diffs;

foreach $chunk (@$diffs) {

 foreach $line (@$chunk) {
   my ($sign, $lineno, $text) = @$line;
   printf "%4d$sign %s\n", $lineno+1, $text;
 }
 print "--------\n";
}
exit 1;

sub bag {
 my $msg = shift;
```

```
  $msg .= "\n";
 warn $msg;
 exit 2;
}
```

Found in path(s):
* /opt/cola/permits/1243141483_1682106599.4271843/0/libalgorithm-diff-perl-1-201-orig-tar-gz/Algorithm-Diff-1.201/bin/diff.pl

1.1118 githubcommagiconairproperties 1.8.1

1.1118.1 Available under license :

goproperties - properties file decoder for Go

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1.1119 githubcompelletiergotoml 1.2.0

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1.1120 clientmodel 0.2.0

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1.1121 sigs-k8s-io-yaml 1.2.0

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1.1122 hashicorp-golang-lru 0.5.4

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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

1.1130 osext 0.0.0-20190222173326-2bc1f35cddc0

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1.1135 github.com/x-cray/logrus-prefixed-formatter 0.5.2

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1.1138 github.com/dlintw/goconf 0.0.0-20120228082610-dcc070983490

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Name: mimeparse
Version: 0.1.3
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Author-email: joe@bitworking.org
Maintainer: Joe Gregorio
Maintainer-email: joe@bitworking.org
Home-page: http://code.google.com/p/mimeparse/
Download-url: http://code.google.com/p/mimeparse/downloads/list
Summary: mimeparse
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Description: A module provides basic functions for parsing mime-type names and matching them against a list of media-ranges.
Keywords: python mime-type
Platform: any
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1.1143 x-text 0.3.7

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1.1144 github.com/robfig/cron/v3 3.0.1

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1.1149 github.com/jcmturner/aescts/v2 2.0.0

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1.1150 github.com/jcmturner/dnsutils/v2 2.0.0

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1.1151 json-iterator-go 1.1.12

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1.1152 github.com/jcmturner/rpc/v2 2.0.3

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1.1153 github.com/masterminds/sprig/v3 3.2.2

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1.1154 golang-mock 1.6.0

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```

Please keep the list sorted.

Aaron Jacobs <jacobsa@google.com> <aaronjjacobs@gmail.com>
Alex Reece <awreece@gmail.com>
David Symonds <dsymonds@golang.org>
Ryan Barrett <ryanb@google.com>
package empty_interface

//go:generate mockgen -package empty_interface -destination mock.go -source input.go -copyright_file=mock_copyright_header

type Empty interface{}

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//

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// Package empty_interface is a generated GoMock package.
package empty_interface

```
import (
 gomock "github.com/golang/mock/gomock"
)

// MockEmpty is a mock of Empty interface.
type MockEmpty struct {
 ctrl     *gomock.Controller
 recorder *MockEmptyMockRecorder
}

// MockEmptyMockRecorder is the mock recorder for MockEmpty.
type MockEmptyMockRecorder struct {
 mock *MockEmpty
}

// NewMockEmpty creates a new mock instance.
func NewMockEmpty(ctrl *gomock.Controller) *MockEmpty {
 mock := &MockEmpty{ctrl: ctrl}
 mock.recorder = &MockEmptyMockRecorder{mock}
 return mock
}

// EXPECT returns an object that allows the caller to indicate expected use.
func (m *MockEmpty) EXPECT() *MockEmptyMockRecorder
 {
 return m.recorder
}
```

1.1155 github.com/jcmturner/gokrb5/v8 8.4.2

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1.1156 websocket 1.4.2

1.1156.1 Available under license :

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1.1157 json-iterator-go 1.1.11

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1.1158 hashicorp-consul-api 1.9.1

1.1158.1 Available under license :

```
---
layout: docs
page_title: Consul-Terraform-Sync Enterprise License
description: >-
 Consul-Terraform-Sync Enterprise License
---

# Consul-Terraform-Sync Enterprise License

<EnterpriseAlert>
 Licenses are only required for Consul-Terraform-Sync Enterprise
</EnterpriseAlert>

Consul-Terraform-Sync Enterprise binaries require a [Consul Enterprise license](/docs/enterprise/license/overview)
to run. There is no Consul-Terraform-Sync Enterprise specific license. As a result, Consul-Terraform-Sync
Enterprise's licensing is very similar to Consul Enterprise.

All Consul-Terraform-Sync Enterprise features are available with a valid Consul Enterprise license, regardless of
your Consul Enterprise packaging or pricing model.

To get a trial license for Consul-Terraform-Sync Enterprise, you can sign-up for the [trial license for Consul
Enterprise](/docs/enterprise/license/faq#q-where-can-users-get-a-trial-license-for-consul-enterprise).

## Setting the License

Choose one of the following methods
 (in order of precedence) to set the license:

1. Set the `CONSUL_LICENSE` environment variable to the license string.

  ```shell-session
  export CONSUL_LICENSE=<LICENSE_VALUE>
  ```
```

1. Set the `CONSUL_LICENSE_PATH` environment variable to the path of the file containing the license.

```shell-session
export CONSUL_LICENSE_PATH=<PATH>/<TO>/<FILE>
```

1. Configure the [`license_path`](/docs/nia/configuration#license_path) option in the configuration file to point to the file containing the license.

```hcl
license_path = "<PATH>/<TO>/<FILE>"
```

~> **Note**: the [options to set the license and the order of precedence](/docs/enterprise/license/overview#binaries-without-built-in-licenses) are the same as Consul Enterprise server agents.
Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.

Updating the License

The previous
section describes options for [setting the license](#setting-the-license) needed to start running Consul-Terraform-Sync Enterprise. Use the following procedure to update the license when it expires or is near the expiration date:

1. Update the license environment variable or configuration with the new license value or path to the new license file
1. Stop and restart Consul-Terraform-Sync Enterprise

Once Consul-Terraform-Sync Enterprise starts again, it will pick up the new license and run the tasks with any changes that may have occurred between the stop and restart period.

Notification and Termination Behavior

Licenses have an expiration date and a termination date. The termination date is a time at or after the license expires. Consul-Terraform-Sync Enterprise will cease to function once the termination date has passed.

The time between the expiration and termination dates is a grace period. Grace periods are generally 24-hours, but you should refer to your license agreement
for complete terms of your grace period.

When approaching expiration and termination, Consul-Terraform-Sync Enterprise will provide notifications in the system logs:

Time period	Behavior
30 days before expiration	Warning-level log every 24-hours
7 days before expiration	Warning-level log every 1 hour

```
| 1 hour before expiration                  | Warning-level log every 1 minute  |
| 1 day before expiration                   | Warning-level log every 5 minutes |
| At or after expiration (before termination) | Error-level log every 1 minute    |
| At or after termination                   | Error-level log and exit          |

~> **Note**: Notification frequency and [grace period](/docs/enterprise/license/faq#q-is-there-a-grace-period-when-licenses-expire) behavior is the same as
 Consul Enterprise.
<div
 ...attributes
 class="consul-intention-permission-header-form"
>
 <FormGroup
   @name={{name}}
 as |group|>

   {{yield (hash
     submit=(action 'submit' changeset)
     reset=(action 'reset' changeset)

     isDirty=(and changeset.isValid changeset.isDirty)
     changeset=changeset
   )}}

   <fieldset>
     <div>
       <group.Element
         @name="HeaderType"
         @type="select"
       as |el|>
         <el.Label>Header type</el.Label>
         <PowerSelect
           @options={{headerTypes}}
           @selected={{headerType}}
           @onChange={{action 'change' 'HeaderType' changeset}} as |Type|>
             {{get headerLabels Type}}
         </PowerSelect>
       </group.Element>


       <group.Element
         @name="Name"
         @error={{changeset-get changeset 'error.Name'}}
       as |el|>
         <el.Label>Header name</el.Label>
         <el.Text
           @value={{changeset-get changeset 'Name'}}
           oninput={{action
```

```
 'change' 'Name' changeset}}
        />
        <State @state={{el.state}} @matches="error">
          <el.Error>
            {{changeset-get changeset 'error.Name.validation'}}
          </el.Error>
        </State>
      </group.Element>

 {{#if shouldShowValueField}}
      <group.Element
        @name="Value"
        @error={{changeset-get changeset 'error.Value'}}
      as |el|>
        <el.Label>Header {{lowercase (get headerLabels headerType)}}</el.Label>
        <el.Text
          @value={{changeset-get changeset 'Value'}}
          oninput={{action 'change' 'Value' changeset}}
        />
        <State @state={{el.state}} @matches="error">
          <el.Error>
            {{changeset-get changeset 'error.Value.validation'}}
          </el.Error>
        </State>
      </group.Element>
 {{/if}}

    </div>
  </fieldset>
 </FormGroup>
</div>
---
layout: api
page_title: License - Operator - HTTP API
description: |-
 The /operator/license endpoint allows for retrieving the Consul
 Enterprise License.
---

# License - Operator HTTP API

<EnterpriseAlert />

The licensing functionality described here is available only in
[Consul Enterprise](https://www.hashicorp.com/products/consul/) version 1.1.0 and later.

## Getting the Consul License
```

This endpoint gets information about the current license.

Method	Path	Produces
`GET`	`/operator/license`	`application/json`

The table below shows this endpoint's support for
[blocking queries](/api/features/blocking),
[consistency modes](/api/features/consistency),
[agent caching](/api/features/caching), and
[required ACLs](/api#authentication).

Blocking Queries	Consistency Modes	Agent Caching	ACL Required
`NO`	`all`	`none`	`none`

Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be retrieved.
 This will default to the datacenter of the agent serving the HTTP request.
 This is specified as a URL query parameter.

Sample Request

```shell-session
$ curl \
  http://127.0.0.1:8500/v1/operator/license
```

Sample Response

```json
{
 "Valid": true,
 "License": {
   "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
   "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
   "installation_id": "*",
   "issue_time": "2018-05-21T20:03:35.911567355Z",
   "start_time": "2018-05-21T04:00:00Z",
   "expiration_time": "2019-05-22T03:59:59.999Z",
   "product": "consul",
   "flags": {
     "package": "premium"
   },
   "features": [
     "Automated Backups",
```

```
    "Automated Upgrades",
    "Enhanced Read Scalability",
    "Network Segments",
    "Redundancy Zone",
    "Advanced Network Federation"
   ],
  "temporary": false
 },
 "Warnings": []
}
```

Updating the Consul License

-> **Deprecated** This endpoint was removed in Consul v1.10.0 along with the ability to manage the cluster's license via the API.

This endpoint updates the Consul license and returns some of the license contents as well as any warning messages regarding its validity.

Method	Path	Produces
`PUT`	`/operator/license`	`application/json`

The table below shows this endpoint's support for [blocking queries](/api/features/blocking), [consistency modes](/api/features/consistency), [agent caching](/api/features/caching), and [required ACLs](/api#authentication).

Blocking Queries	Consistency Modes	Agent Caching	ACL Required
`NO`	`none`	`none`	`operator:write`

Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be updated. This will default to the datacenter of the agent serving the HTTP request. This is specified as a URL query parameter.

Sample Payload

The payload is the raw license blob.

Sample Request

```shell-session
```

```
$ curl \
  --request PUT \
  --data @consul.license \
  http://127.0.0.1:8500/v1/operator/license
```

Sample Response

```json
{
 "Valid": true,
 "License": {
   "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
   "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
   "installation_id": "*",
   "issue_time": "2018-05-21T20:03:35.911567355Z",
   "start_time": "2018-05-21T04:00:00Z",
   "expiration_time": "2019-05-22T03:59:59.999Z",
   "product": "consul",
   "flags": {
     "package": "premium"
   },
   "features": [
     "Automated Backups",
     "Automated Upgrades",
     "Enhanced Read Scalability",
     "Network Segments",
     "Redundancy Zone",
      "Advanced Network Federation"
   ],
   "temporary": false
 },
 "Warnings": []
}
```

Resetting the Consul License

-> **Deprecated** This endpoint was removed in Consul v1.10.0 along with
the ability to manage the cluster's license via the API.

This endpoint resets the Consul license to the license included in the Enterprise binary. If the included license is not valid, the replace will fail.

Method	Path	Produces
`DELETE`	`/operator/license`	`application/json`

The table below shows this endpoint's support for
[blocking queries](/api/features/blocking),
[consistency modes](/api/features/consistency),
[agent caching](/api/features/caching), and
[required ACLs](/api#authentication).

Blocking Queries	Consistency Modes	Agent Caching	ACL Required
`NO`	`none`	`none`	`operator:write`

Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be updated.
 This will default to the datacenter of the agent serving the HTTP request.
 This is specified as a URL query parameter.

Sample Request

```shell-session
$ curl \
  --request DELETE \
  http://127.0.0.1:8500/v1/operator/license
```

Sample Response

```json
{
 "Valid": true,
 "License": {
   "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
   "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
   "installation_id": "*",
   "issue_time": "2018-05-21T20:03:35.911567355Z",
   "start_time": "2018-05-21T04:00:00Z",
   "expiration_time": "2019-05-22T03:59:59.999Z",
   "product": "consul",
   "flags": {
     "package": "premium"
   },
   "features": [
     "Automated Backups",
     "Automated Upgrades",
     "Enhanced Read Scalability",
     "Network Segments",
     "Redundancy Zone",
     "Advanced Network Federation"
```

```
  ],
  "temporary": false
 },
 "Warnings": []
}
```

---
layout: docs
page_title: Consul Enterprise License
description: Consul Enterprise License Overview.

Consul Enterprise License

Licensing

All Consul Enterprise agents must be licensed when they are started. Where that license comes from will depend on which binary is in use, whether the agent is a server, client or snapshot agent and whether ACLs have been enabled for the cluster.

-> ** Consul Enterprise 1.10.0 removed temporary licensing.** In previous versions Consul Enterprise agents could start without a license and then have a license applied to them later on via the CLI or API. That functionality has been removed and replaced with the ability to load licenses from the agent's configuration or environment. Also prior to 1.10.0 server agents would automatically propagate the license between themselves. This no longer occurs and the license must be present on each server when they are started.

-> Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise)
 for detailed steps on how to install the license key.

Binaries with Built In Licenses

If you are downloading Consul from Amazon S3, then the license is included
in the binary and you do not need to take further action. This is the
most common use case.

In the S3 bucket you will find three Enterprise zip packages. The packages with `+pro` and
`+prem` in the name, are the binaries that include the license. The package
with `+ent` in the name does not include the license.

When using these binaries no further action is necessary to configure the license.

Binaries Without Built In Licenses

For Consul Enterprise 1.10.0 or greater, binaries that do not include built in licenses a license must be available at the time the agent starts.

For server agents this means that they must either have the [`license_path`](/docs/agent/options#license_path) configuration set or have a license configured in the servers environment with the `CONSUL_LICENSE` or `CONSUL_LICENSE_PATH` environment variables. Both the configuration item and the `CONSUL_LICENSE_PATH` environment variable point to a file containing the license whereas the `CONSUL_LICENSE` environment variable should contain the license as the value. If multiple of these are set the order of precedence is:

1. `CONSUL_LICENSE` environment variable
2. `CONSUL_LICENSE_PATH` environment variable
3. `license_path` configuration item.

Both client agents and the snapshot agent may also be licensed in the very same manner. However to prevent the need to configure the license on many client agents and snapshot agents those agents have the capability to retrieve the license automatically under specific circumstances.

Client Agent License Retrieval

When a client agent starts without a license in its configuration or environment, it will try to retrieve the license from the servers via RPCs. That RPC always requires a valid non-anonymous ACL token to authorize the request but the token doesn't need any particular permissions. As the license is required before the client actually joins the cluster, where to make those RPC requests to is inferred from the [`start_join`](/docs/agent/options#start_join) or [`retry_join`](/docs/agent/options#retry_join) configurations. If those are both unset or no [`agent` token](/docs/agent/options#acl_tokens_agent) is set then the client agent will immediately shut itself down.

If all preliminary checks pass the client agent will attempt to reach out to any server on its RPC port to request the license. These requests will be retried for up to 5 minutes and if it is unable to retrieve a license within that time frame it will shut itself down.

If ACLs are disabled then the license must be provided to the client agent through one of the three methods listed below.
Failure in providing the client agent with a licence will prevent the client agent from joining the cluster.

1. `CONSUL_LICENSE` environment variable
2. `CONSUL_LICENSE_PATH` environment variable
3. `license_path` configuration item.

Snapshot Agent License Retrieval

The snapshot agent has similar functionality to the client agent for automatically retrieving the license. However, instead of requiring a server agent to talk to, the snapshot agent can request the license from the server or client agent it would use for all other operations. It still requires an ACL token to authorize the request. Also like client agents, the snapshot agent will shut itself down after being unable to retrieve the license for 5 minutes.

```
<div
 ...attributes
 class="consul-intention-permission-form"
>
<FormGroup
 @name={{name}}
as |group|>

 {{yield (hash
   submit=(action 'submit' changeset)
   reset=(action 'reset' changeset)

   isDirty=(and changeset.isValid)
   changeset=changeset
 )}}

 <fieldset>
   <div data-property="action">
     <span class="label">
       Should this permission allow the source connect to the destination?
     </span>
     <div role="radiogroup" class={{if changeset.error.Action ' has-error'}}>
       {{#each intents as |intent|}}
         <label>
           <span>{{capitalize intent}}</span>
           <input
             type="radio"
             name="Action"
             value={{intent}}
             checked={{if (eq changeset.Action intent) 'checked'}}
             onchange={{action (changeset-set changeset 'Action') value="target.value"}}
           />
         </label>
       {{/each}}
     </div>
   </div>
 </fieldset>

 <fieldset>
   <header>
     <h2>Path</h2>
    </header>
   <div>
       <group.Element
         @name="PathType"
         @type="select"
       as |el|>
         <el.Label>
```

```
          Path type
        </el.Label>
        <PowerSelect
          @options={{pathTypes}}
          @selected={{pathType}}
          @onChange={{action 'change' 'HTTP.PathType' changeset}} as |Type|>
            {{get pathLabels Type}}
        </PowerSelect>
      </group.Element>

{{#if shouldShowPathField}}
      <group.Element
        @name="Path"
        @error={{changeset-get changeset 'error.HTTP.Path'}}
      as |el|>
        <el.Label>
          {{get pathLabels pathType}}
        </el.Label>
        <el.Text
          @value={{changeset-get changeset 'HTTP.Path'}}
          oninput={{action 'change' 'HTTP.Path' changeset}}
        />
        <State @state={{el.state}} @matches="error">
          <el.Error>
            {{#if (eq (changeset-get changeset 'HTTP.Path') 'Regex')}}

          Path Regex should not be blank
            {{else}}
              Path should begin with a '/'
            {{/if}}
          </el.Error>
        </State>
      </group.Element>
{{/if}}

  </div>
 </fieldset>

 <fieldset>
  <h2>Methods</h2>
  <div class="type-toggle">
    <span>All methods are applied by default unless specified</span>
    <group.Element
      @name="allMethods"
    as |el|>
      <el.Checkbox
        checked={{if allMethods 'checked'}}
        onchange={{action 'change' 'allMethods' changeset}}
```

```
      />
      <el.Label>
        All Methods
      </el.Label>
    </group.Element>
  </div>

{{#if shouldShowMethods}}
  <div class="checkbox-group" role="group">
    {{#each methods as |method|}}
      <label class="type-checkbox">
        <input
          type="checkbox"
          name="method"
          value={{method}}
          checked={{if (contains method changeset.HTTP.Methods) 'checked'}}

    onchange={{action 'change' 'method' changeset}}
        />
        <span>{{method}}</span>
      </label>
    {{/each}}
  </div>
{{/if}}
 </fieldset>

 <fieldset>
  <h2>Headers</h2>

  <Consul::Intention::Permission::Header::List
    @items={{changeset-get changeset 'HTTP.Header'}}
    @ondelete={{action 'delete' 'HTTP.Header' changeset}}
  as |headerList|>

  </Consul::Intention::Permission::Header::List>

  <Consul::Intention::Permission::Header::Form
    @onsubmit={{action 'add' 'HTTP.Header' changeset}}
  as |headerForm|>
    <Ref @target={{this}} @name="headerForm" @value={{headerForm}} />
  </Consul::Intention::Permission::Header::Form>

  <button
    data-test-add-header
    type="button"
    class="type-submit"
    disabled={{if (not this.headerForm.isDirty) 'disabled'}}
    onclick={{action this.headerForm.submit}}
```

```
  >
    Add{{#if (gt (get (changeset-get changeset 'HTTP.Header') 'length') 0)}} another{{/if}} header
  </button>
   <button
    type="button"
    class="type-cancel"
    onclick={{action this.headerForm.reset}}
  >
    Cancel
  </button>

 </fieldset>
 </FormGroup>
</div>
.consul-intention-permission-form {
 h2 {
   padding-top: 1.4em;
   margin-top: 0.2em;
   margin-bottom: 0.6em;
 }
 .consul-intention-permission-header-form {
   margin-top: 10px;
 }
 fieldset:nth-child(2) > div,
 .consul-intention-permission-header-form fieldset > div {
   display: grid;
   grid-template-columns: repeat(auto-fit, minmax(160px, 1fr));
   grid-gap: 12px;
 }
 fieldset:nth-child(2) > div label:last-child {
   grid-column: span 2;
 }
 .ember-basic-dropdown-trigger {
   padding: 5px;
 }
 .checkbox-group {
   flex-direction: column;
 }
}
.consul-intention-permission-form {
 h2 {
   border-top: 1px solid rgb(var(--tone-blue-500));
   @extend %h200;
 }
 button.type-submit {
   @extend %frame-blue-300;
 }
 button.type-submit:hover:not(:disabled),
```

```
 button.type-submit:focus:not(:disabled) {
   @extend %frame-blue-500;
 }
 button.type-submit:disabled {
   @extend %frame-blue-200;
 }
}
<Notice
 @type="info"
as |notice|>
 <notice.Body>
   <p>
     {{t "components.consul.intention.notice.permissions.body"}}
   </p>
 </notice.Body>
 <notice.Footer>
   <p>
     <a href="{{env 'CONSUL_DOCS_URL'}}/connect/intentions" target="_blank" rel="noopener noreferrer">
       {{t "components.consul.intention.notice.permissions.footer"}}
     </a>
   </p>
 </notice.Footer>
</Notice>
```

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```
.consul-intention-permission-header-list {
 max-height: 200px;
 overflow: auto;
}
@import './skin';
@import './layout';
.consul-intention-permission-header-list {
 > ul > li {
   @extend %list-row-200;
 }
}
@import './skin';
@import './layout';
.consul-intention-permission-list > ul > li {
 @extend %list-row-200;
}
.consul-intention-permission-list:not(.readonly) > ul > li {
 @extend %with-composite-row-intent;
}
.consul-intention-permission-list strong {
 @extend %pill-500;
}
.consul-intention-permission-list .intent-allow {
 @extend %pill-allow;
}
.consul-intention-permission-list .intent-deny {
 @extend %pill-deny;
}
```

```
<div
 class="notice {{or @type 'info'}}"
 ...attributes
>
{{yield (hash
 Header=(component 'anonymous' tagName="header")
 Body=(component 'anonymous')
 Footer=(component 'anonymous' tagName="footer")
)}}
</div>
---
layout: commands
page_title: 'Commands: License'
description: >
 The license command provides a datacenter-level view of the Consul
 Enterprise license.
---

# Consul License

Command: `consul license`

<EnterpriseAlert />

The `license` command provides a datacenter-level view of the Consul Enterprise license. This was added
in Consul 1.1.0 but Consul 1.10.0 removed the ability to set and reset the license using the CLI.
See the [licensing documentation](/docs/enterprise/license/overview) for more information about
Consul Enterprise license management.

If ACLs are enabled then a token with operator privileges may be required in
order to use this command. Requests are forwarded internally to the leader
if required, so this can be run from any Consul node in a cluster. See the
[ACL Guide](https://learn.hashicorp.com/consul/security-networking/production-acls) for more information.

```text
Usage: consul license <subcommand> [options] [args]

 This command has subcommands for managing
 the Consul Enterprise license
 Here are some simple examples, and more detailed examples are
 available in the subcommands or the documentation.

 Install a new license from a file:

     $ consul license put @consul.license

 Install a new license from stdin:
```
```

$ consul license put -

Install a new license from a string:

$ consul license put "<license blob>"

Retrieve the current license:

$ consul license get

Inspect a license:

$ consul license inspect "<path to license file>"

Reset the current license:

$ consul license reset

For more examples, ask for subcommand help or view the documentation.

Subcommands:
  get Get the active license
  inspect Inspect a signed license
  put Puts a new license in the datacenter
  reset Resets the license in the datacenter

```

## inspect

This command inspects and validates a license. Just like a Consul agent it
can load the license from a file on disk or
from the `CONSUL_LICENSE` and
`CONSUL_LICENSE_PATH` environment variables.

Usage: `consul license inspect [<options>] [<license file>]`

Inspect a license contained in a file:

```
$ consul license inspect consul.hclic
```

Inspect a license loaded from the environment:

```
$ consul license inspect
```
```

This will look at the CONSUL_LICENSE environment variable first
and if not present then we will look for the file specified
by the CONSUL_LICENSE_PATH environment variable.

The output looks like this:

```
Source: /consul/config/consul.hclic (path from the CONSUL_LICENSE_PATH environment variable)
Product: consul
License ID: 6089174b-a713-74cf-4c8d-856b86f1ce50
Customer ID: 7c020610-60a2-7ccb-c210-20d899e5f3b4
Installation ID: *
Issue Time: 2020-09-14 19:45:56.212195875 +0000 UTC
Start Time: 2020-09-14 00:00:00 +0000 UTC
Expiration Time: 2021-09-14 23:59:59.999 +0000 UTC
Termination Time: 2021-09-14 23:59:59.999 +0000 UTC
Modules:
      Global Visibility, Routing and Scale

   Governance and Policy
Features:
      Automated Backups
      Automated Upgrades
      Enhanced Read Scalability
      Network Segments
      Redundancy Zone
      Advanced Network Federation
      Namespaces
      SSO
      Audit Logging
      Admin Partitions

License is valid

```
put

-> **Deprecated** The ability to manage the cluster's license via the CLI
was removed in Consul 1.10. While the CLI command still exists it will
always return an error. This command will be fully removed in a future release.

This command sets the Consul Enterprise license.

Usage: `consul license put [options] LICENSE`

API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

The output looks like this:

```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
    Automated
 Backups
    Automated Upgrades
    Enhanced Read Scalability
    Network Segments
    Redundancy Zone
    Advanced Network Federation
```

get

This command gets the Consul Enterprise license.

Usage: `consul license get [options]`

API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

The output looks like this:

```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
    Automated Backups
    Automated Upgrades
    Enhanced Read Scalability
```

```
      Network Segments
      Redundancy Zone
      Advanced Network Federation
```

reset

-> **Deprecated** The ability to manage the cluster's license via the CLI
was removed in Consul 1.10. While the CLI command still exists it will
always return an error. This command will be fully removed in
 a future release.

Resets license for the datacenter to the one builtin in Consul binary, if it is still valid.
If the builtin license is invalid, the current one stays active.

Usage: `consul license reset [options]`

API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

The output looks like this:

```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
      Automated Backups
      Automated Upgrades
      Enhanced Read Scalability
      Network Segments
      Redundancy Zone
      Advanced Network Federation
```

```
.consul-intention-permission-list {
 .detail > div {
   display: flex;
   width: 100%;
 }
 strong {
   margin-right: 8px;
 }
```

```
}
.consul-intention-permission-header-list {
 dt::before {
   @extend %with-glyph-icon;
   content: 'H';
 }
}
<Notice
 class="topology-metrics-notice"
 ...attributes
 @type={{@type}}
as |notice|>
   <notice.Header>
   <h3>
     {{t (concat "components.consul.topology-metrics.notice." @for ".header")}}
   </h3>
 </notice.Header>
 <notice.Body>
   <p>
    {{t (concat "components.consul.topology-metrics.notice." @for ".body")}}
   </p>
 </notice.Body>
{{#if @action}}
 <notice.Footer>
   <p>
     {{#if @internal}}
       <Action @href={{href-to (t (concat "components.consul.topology-metrics.notice." @for ".footer.URL"))}}>
         {{t (concat "components.consul.topology-metrics.notice." @for ".footer.name")}}
       </Action>
     {{else}}
       <Action @href={{@link}} @external={{true}}>
         {{t (concat "components.consul.topology-metrics.notice." @for ".footer")}}
       </Action>
     {{/if}}
   </p>
 </notice.Footer>
{{/if}}
</Notice>
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---
layout: docs
page_title: Consul Enterprise License FAQ
description: Frequently Asked Questions pertaining to Consul Enterprise Licensing.

Frequently Asked Questions (FAQ)

This FAQ is for the license changes introduced in Consul Enterprise version 1.10.0.
Consul Enterprise automatically loads Consul licenses when the server agent starts.

Q: Can I get a quick summary of the Consul changes?

Starting with Consul Enterprise 1.10.0, the license enablement process is different.

HashiCorp Enterprise servers will no longer start without a license. Servers require licenses to be provided from either an environment variable or file.

If the license is missing, invalid, or expired, the server will immediately exit.
This check is part of the server boot-up process.

In previous versions of HashiCorp enterprise products, one server could distribute a license to other servers via the Raft protocol.
This will no longer work since each server must be able to find a valid license during
the startup process.

Q: What are the upgrade requirements?

All customers on Consul Enterprise 1.8/1.9 must first upgrade their client and server agents to the latest patch release.
During the upgrade the license file must also be configured on client agents in an environment variable or file path, otherwise the Consul agents will fail to retrieve the license with a valid agent token.
The upgrade process varies if ACLs are enabled or disabled in the cluster.
Refer to the instructions on [upgrading to 1.10.x](/docs/upgrading/instructions/upgrade-to-1-10-x) for details.

Q: Is there a tutorial available for the license configuration steps?

Please visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise).

Q: What resources are available?

The list below is a great starting point for learning more about the license changes introduced in Consul Enterprise 1.10.0+ent.

- [Consul Enterprise Upgrade Documentation](https://www.consul.io/docs/enterprise/upgrades)

-
[Consul License Documentation](/docs/enterprise/license)

- [License configuration values documentation](/docs/enterprise/license/overview#binaries-without-built-in-licenses)

- [Install a HashiCorp Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise)

Q: Do these changes impact all customers/licenses?

The license changes introduced in 1.10.0 only affect Consul Enterprise.
This impacts customers that have an enterprise binary (evaluation or non-evaluation licenses) downloaded from https://releases.hashicorp.com.
The license changes do not impact customers with the baked-in licensed binaries. In a later release of Consul Enterprise, baked-in binaries will be deprecated.

Q: What is the product behavior change introduced by the licensing changes?

Starting with Consul Enterprise 1.10.0, a valid license is required on-disk (auto-loading) or as an environment variable for Consul Enterprise to successfully boot-up.
The in-storage license feature will not be supported starting with Consul Enterprise 1.10.0+ent. All Consul Enterprise clusters using 1.10.0+ent must ensure that there is a valid license on-disk (auto-loaded) or as an environment variable.

Q: What is the impact on evaluation licenses due to this change?

The 6-hour trial period for evaluation licenses will be deprecated as of Consul Enterprise 1.10.0.
This means that any clusters deployed with Consul 1.10.0+ent binaries will need to have a valid license on the disk (auto-loaded) or as an environment variable.
Failure to provide a valid license key will result in the Consul server agent not starting.

Q: Is there a grace period when licenses expire?

A license includes an `expiration_date` and a `termination_date`. An enterprise binary will cease to function once the `termination_date` has passed.
Licenses will now have a 24 hrs grace period. The grace period is the time between license expiry until the time it terminates.
As Consul Enterprise approaches the expiration date, warnings will be issued in the system logs.

Q: Does this affect client agents?

There are upgrade requirements that affect Consul Enterprise clients.
Please review the [upgrade requirements](faq#q-what-are-the-upgrade-requirements) documentation.

Q: Does this affect snapshot agents?

Same behavior as Consul clients. See answer for [Does this affect client agents?](faq#q-does-this-affect-client-agents)

Q: What is the behavior if the license is missing?

Consul server agents will detect the absence of the license and immediately exit.

Consul client agents will attempt to retrieve the license from servers if certain conditions are met:

- ACLs are enabled.
- An ACL token is provided to the client agent.
- The client agents configuration contains `start_join/retry_join` addresses.
- The start/retry join addresses are addresses of the Consul servers.

Consul snapshot agents will attempt to retrieve the license from servers if certain conditions are met: ACLs are enabled, a ACL token is provided to the client agent, the client agents configuration contains `start_join/retry_join` addresses, the start/retry join addresses are addresses of the Consul servers.

Q: Where can users get a trial license for Consul Enterprise?

Visit https://www.consul.io/trial for a free 30-day trial license.

Q: Are the license files locked to a specific cluster?

The license files are not locked to a specific cluster or cluster node. The above changes apply to all nodes in a cluster.

Q: Will this impact HCP Consul?

This will not impact HCP Consul.

Q: Does this need to happen every time a node restarts, or is this a one-time check?

Consul Enterprise binaries starting with 1.10.0+ent, will be subject to EULA check. Release 1.10.0+ent introduces the EULA check for evaluation licenses (non-evaluation licenses already go through EULA check during contractual agreement).

The
agreement to a EULA happens only once (when the user gets their license), Consul Enterprise **will check for the presence of a valid license every time a node restarts**.

When a customer upgrades existing clusters to a 1.10.0+ent release, they need to have a valid license to successfully upgrade. This valid license must be auto-loaded.

When a customer deploys new clusters to a 1.10.0+ent release, they need to have a valid license to successfully upgrade. This valid license must be on-disk (auto-loaded).

Q: What are the scenarios that a customer must plan for because of these changes?

New Consul cluster deployments using 1.10.0+ent will need to have a valid license on servers to successfully deploy.
This valid license must be on-disk (auto-loaded) or as an environment variable.
Please see the [upgrade requirements](faq#q-what-are-the-upgrade-requirements).

Q: What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI
flow to the license on disk flow?

VM

1. Run [`consul license get -signed`](/commands/license#get) to extract the license from their running cluster. Store the license in a secure location on disk.
1. Set up the necessary configuration so that when Consul Enterprise reboots it will have access to the required license. This could be via the client agent configuration file or an environment variable.
1. Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.
1. Follow the Consul upgrade [documentation](/docs/upgrading).

Kubernetes

NOTE: If you are not upgrading Consul or your Helm chart version then no action is required.

1. In order to use Consul Enterprise 1.10.0 or greater on Kubernetes you must use version 0.32.0 or greater of the Helm chart.
1. You should already have a Consul Enterprise license set as a Kubernetes secret. If you do not, then if you are an existing HashiCorp enterprise customer you may contact your organization's customer success manager (CSM) or email support-softwaredelivery@hashicorp.com for information on how to get your organization's enterprise license. Once you have the license then create a Kubernetes secret containing the license as described in [Kubernetes - Consul Enterprise](/docs/k8s/installation/deployment-configurations/consul-enterprise).
1. Follow the [Kubernetes Upgrade Docs](/docs/k8s/upgrade) to upgrade. No changes to your `values.yaml` file are needed to enable enterprise autoloading since this support is built in to consul-helm 0.32.0 and greater.

~> **WARNING:** If you are upgrading the Helm chart but **not** upgrading the Consul version, you must set `server.enterpriseLicense.enableLicenseAutoload: false`. See [Kubernetes - Consul Enterprise](/docs/k8s/installation/deployment-configurations/consul-enterprise) for more details.

Q: What is the migration path for customers who want to migrate from their existing perpetually-licensed binaries to the license on disk flow?

VM

1. Acquire a valid Consul Enterprise license. If you are an existing HashiCorp enterprise customer you may contact your organization's customer success manager (CSM) or email support-softwaredelivery@hashicorp.com for information on how to get your organization's enterprise license.
1. Store the license in a secure location on disk.
1. Set up the necessary configuration so that when Consul Enterprise reboots it will have the required license. This could be via the client agent configuration file or an environment variable.
  Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.
1. Follow the Consul upgrade [documentation](/docs/upgrading).

Kubernetes

1. Acquire a valid Consul Enterprise license. If you are an existing HashiCorp enterprise customer you may contact your organization's customer success manager (CSM) or email support-softwaredelivery@hashicorp.com for information on how to get your organization's enterprise license.
1. Set up the necessary configuration so that when Consul Enterprise reboots it will have the required license. This could be via the client agent configuration file or an environment variable.
  Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.
1. Proceed with the `helm` [upgrade instructions](/docs/k8s/upgrade)

Q: Will Consul downgrades/rollbacks work?

When downgrading to a version of Consul before 1.10.0+ent, customers will need to follow the previous process for

applying an enterprise licenses to Consul Enterprise.

Q: Are there potential pitfalls when downgrading or upgrading Consul server instances?

~> Verify that you meet the [upgrade requirements](faq#q-what-are-the-upgrade-requirements).

Assume
 a scenario where there are three Consul server nodes:

- Node A: v1.9.5
- Node B: v1.10.0 [Leader]
- Node C: v1.9.5

The command `consul license put` is issued from Node A. This will result in an error due to how Consul routes calls to the server node, Node B in this example.
Because Node A is a follower when the call `consul license put` is issued, the call will be redirected to Node B (leader).
The `consul license put` operation will fail due to being removed from 1.10.0.
This is a scenario that could occur if a customer downgrades from 1.10.0+ and the Consul leadership has not transferred back over to a node not running 1.10.0+.
This also has the potential of occurring when upgrading if scheduled license updates or autoscaling groups recoveries are in place.

Q: Any impacts to Consul Kubernetes?

If you are using a Consul Enterprise version prior to 1.10.0 and decide to upgrade the Helm chart to version 0.32.0 or newer,
 but not the Consul version.
You will need to add the following configuration.

```
server:
 enterpriseLicense:
   enableLicenseAutoload: false
```
.consul-intention-permission-list {
 dt::before {
   @extend %with-glyph-icon;
 }
 dl.permission-methods dt::before {
   content: 'M';
 }
 dl.permission-path dt::before {
   content: 'P';
 }
 dl.permission-header dt::before {
   content: 'H';
 }

```
}
{{#if (gt items.length 0)}}
<ListCollection
 class="consul-intention-permission-header-list"
 @items={{items}}
 @scroll="native"
 @cellHeight={{42}}
as |item|>
 <BlockSlot @name="details">
   <dl>
     <dt>
       <Tooltip>
         Header
       </Tooltip>
     </dt>
     <dd>
       {{item.Name}} {{route-match item}}
     </dd>
   </dl>
 </BlockSlot>
 <BlockSlot @name="actions" as |Actions|>
   <Actions as |Action|>
     <Action data-test-delete-action @onclick={{action ondelete item}} class="dangerous">
       <BlockSlot @name="label">
         Delete
       </BlockSlot>
       <BlockSlot @name="confirmation" as |Confirmation|>
         <Confirmation class="warning">
           <BlockSlot @name="header">
             Confirm delete
           </BlockSlot>
           <BlockSlot @name="body">
             <p>
               Are you sure you want to delete this header?
             </p>
           </BlockSlot>
           <BlockSlot @name="confirm" as |Confirm|>
             <Confirm>Delete</Confirm>
           </BlockSlot>
         </Confirmation>
       </BlockSlot>
     </Action>
   </Actions>
 </BlockSlot>
</ListCollection>
{{/if}}
package api
```

```
import (
 "io/ioutil"
 "strings"
 "time"
)

type License struct {
 // The unique identifier of the license
 LicenseID string `json:"license_id"`

 // The customer ID associated with the license
 CustomerID string `json:"customer_id"`

 // If set, an identifier that should be used to lock the license to a
 // particular site, cluster, etc.
 InstallationID string `json:"installation_id"`

 // The time at which the license was issued
 IssueTime time.Time `json:"issue_time"`

 // The time at which the license starts being valid
 StartTime time.Time `json:"start_time"`

 // The time after which the license expires
 ExpirationTime time.Time `json:"expiration_time"`

 // The time at which the license ceases to function and can
 // no longer be used in any capacity
 TerminationTime time.Time `json:"termination_time"`

 // The product the license is valid for
 Product string `json:"product"`

 // License Specific Flags
 Flags map[string]interface{} `json:"flags"`

 // Modules is a list
 of the licensed enterprise modules
 Modules []string `json:"modules"`

 // List of features enabled by the license
 Features []string `json:"features"`
}

type LicenseReply struct {
 Valid    bool
 License  *License
 Warnings []string
```

```
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
 var reply LicenseReply
 if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
  return nil, err
 } else {
  return &reply, nil
 }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
 r := op.c.newRequest("GET", "/v1/operator/license")
 r.params.Set("signed", "1")
 r.setQueryOptions(q)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return "", err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
  return "", err
 }

 data, err := ioutil.ReadAll(resp.Body)
 if err != nil {
  return "", err
 }

 return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If
 the builtin license is invalid, the current license stays active.
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
 var reply LicenseReply
 r := op.c.newRequest("DELETE", "/v1/operator/license")
 r.setWriteOptions(opts)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return nil, err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
```

```
 return nil, err
 }
 if err := decodeBody(resp, &reply); err != nil {
  return nil, err
 }
 return &reply, nil
}

// LicensePut will configure the Consul Enterprise license for the target datacenter
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
 var reply LicenseReply
 r
 := op.c.newRequest("PUT", "/v1/operator/license")
 r.setWriteOptions(opts)
 r.body = strings.NewReader(license)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return nil, err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
  return nil, err
 }

 if err := decodeBody(resp, &reply); err != nil {
  return nil, err
 }

 return &reply, nil
}
{{#if (gt items.length 0)}}
<ListCollection
 class="consul-intention-permission-list{{if (not onclick) ' readonly'}}"
 @scroll="native"
 @items={{items}}
 @partial={{5}}
as |item|>
 <BlockSlot @name="details">
   <div onclick={{action (optional onclick) item}}>
     <strong class={{concat 'intent-' item.Action}}>{{capitalize item.Action}}</strong>
{{#if (gt item.HTTP.Methods.length 0)}}
       <dl class="permission-methods">
         <dt>
           <Tooltip>
             Methods
```

```
          </Tooltip>
        </dt>
        <dd>
{{#each item.HTTP.Methods as |item|}}
          {{item}}
{{/each}}
        </dd>
      </dl>
{{/if}}
{{#if item.HTTP.Path}}
      <dl class="permission-path">
        <dt>
          <Tooltip>
            {{item.HTTP.PathType}}
          </Tooltip>
        </dt>
        <dd>
          {{item.HTTP.Path}}
        </dd>
      </dl>
{{/if}}
{{#each item.HTTP.Header as |item|}}
      <dl class="permission-header">
        <dt>
           <Tooltip>
            Header
          </Tooltip>
        </dt>
        <dd>
          {{item.Name}} {{route-match item}}
        </dd>
      </dl>
{{/each}}
  </div>
 </BlockSlot>
{{#if onclick}}
 <BlockSlot @name="actions" as |Actions|>
   <Actions as |Action|>
     <Action data-test-edit-action @onclick={{action (optional onclick) item}} @close={{true}}>
       <BlockSlot @name="label">
         Edit
       </BlockSlot>
     </Action>
     <Action data-test-delete-action @onclick={{action ondelete item}} class="dangerous">
       <BlockSlot @name="label">
         Delete
       </BlockSlot>
       <BlockSlot @name="confirmation" as |Confirmation|>
```

```
        <Confirmation class="warning">
          <BlockSlot @name="header">
            Confirm delete
          </BlockSlot>
          <BlockSlot @name="body">
            <p>
              Are you sure you want to delete this permission?
            </p>
          </BlockSlot>
           <BlockSlot @name="confirm" as |Confirm|>
            <Confirm>Delete</Confirm>
          </BlockSlot>
        </Confirmation>
      </BlockSlot>
    </Action>
  </Actions>
 </BlockSlot>
{{/if}}
</ListCollection>
{{/if}}
# Notice

Presentational component for informational/warning/error banners/notices.


```hbs preview-template
<Notice
 @type={{this.type}}
as |notice|>
 <notice.Header>
   <h3>Header</h3>
 </notice.Header>
 <notice.Body>
   <p>
     Body
   </p>
 </notice.Body>
 <notice.Footer>
   <p>
     <a href="">Footer link</a>
   </p>
 </notice.Footer>
</Notice>

<figure>
 <figcaption>Provide a widget to change the <code>@type</code></figcaption>

 <select
```
```

```
  onchange={{action (mut this.type) value="target.value"}}
 >
  <option>info</option>
  <option>success</option>
  <option>warning</option>
  <option>error</option>
 </select>

</figure>
```

Arguments

Argument/Attribute	Type	Default	Description
`type`	`String`	`info`	Type of notice [info|warning|error]

See

- [Template Source Code](./index.hbs)

%notice {
 position: relative;
 padding: 0.8rem;
}
%notice header {
 margin-bottom: 0.1rem;
}
%notice header > * {
 margin-bottom: 0;
}
%notice p {
 margin-bottom: 0.3rem;
 line-height: 1.4;
}
/* this is probably skin */
%notice {
 padding-left: calc(0.8rem + 1.4rem);
}
%notice::before {
 position: absolute;
 top: 0.8rem;
 left: 0.6rem;
 font-size: 1rem;
}
@import './skin';
@import './layout';

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```
<Notice
 class="consul-intention-notice-custom-resource crd"
 ...attributes
 @type={{or @type "info"}}
as |notice|>
 <notice.Header>
   <h3>
     Intention Custom Resource
   </h3>
 </notice.Header>
 <notice.Body>
   <p>
     Some of your intentions are being managed through an Intention Custom Resource in your Kubernetes cluster. Those managed intentions will be view only in the UI. Any intentions created in the UI will work but will not be synced to the Custom Resource Definition (CRD) datastore.
   </p>
 </notice.Body>
 <notice.Footer>
   <p>
     <a href="{{env 'CONSUL_DOCS_URL'}}/k8s/crds" target="_blank" rel="noopener noreferrer">Learn more about CRDs</a>
   </p>
 </notice.Footer>
</Notice>
@import './skin';
@import './layout';

%notice {
 margin: 1em 0;
}
/**/
.notice.success {
 @extend %notice-success;
}
.notice.warning {
 @extend %notice-warning;
}
.notice.error {
 @extend %notice-error;
}
.notice.info {
 @extend %notice-info;
}
.notice.highlight {
```

```
 @extend %notice-highlight;
}
.notice.policy-management {
 @extend %notice-highlight;
}
.notice.crd::before {
 -webkit-mask-image: none;
 mask-image: none;
 background-color: transparent;
 @extend %with-logo-kubernetes-color-icon;
}
%notice {
 border-radius: var(--decor-radius-100);
 border: var(--decor-border-100);
 color: rgb(var(--tone-gray-999));
}
%notice::before {
 @extend %as-pseudo;
}
%notice header > * {
 @extend %h300;
}
%notice footer * {
 @extend %p3;
 font-weight: var(--typo-weight-bold);
}
%notice-success,
%notice-info,
%notice-highlight,
%notice-error,
%notice-warning {
 @extend %notice;
}
%notice-success {
 background-color: rgb(var(--tone-green-050));
 border-color: rgb(var(--tone-green-500));
}
%notice-success header * {
 color: rgb(var(--tone-green-800));
}
%notice-info {
 border-color: rgb(var(--tone-blue-100));
 background-color: rgb(var(--tone-blue-010));
}
%notice-info header * {
 color: rgb(var(--tone-blue-700));
}
%notice-highlight {
```

```
 background-color: rgb(var(--tone-gray-050));
 border-color: rgb(var(--tone-gray-300));
}
%notice-info header * {
 color: rgb(var(--tone-blue-700));
}
%notice-warning {
 border-color: rgb(var(--tone-yellow-100));
 background-color: rgb(var(--tone-yellow-050));
}
%notice-warning
 header * {
 color: rgb(var(--tone-yellow-800));
}
%notice-error {
 background-color: rgb(var(--tone-red-050));
 border-color: rgb(var(--tone-red-500));
}
%notice-error header * {
 color: rgb(var(--tone-red-500));
}
%notice-success::before {
 @extend %with-check-circle-fill-mask;
 color: rgb(var(--tone-green-500));
}
%notice-info::before {
 @extend %with-info-circle-fill-mask;
 color: rgb(var(--tone-blue-500));
}
%notice-highlight::before {
 @extend %with-star-fill-mask;
 color: rgb(var(--tone-yellow-500));
}
%notice-warning::before {
 @extend %with-alert-triangle-mask;
 color: rgb(var(--tone-orange-500));
}
%notice-error::before {
 @extend %with-cancel-square-fill-mask;
 color: rgb(var(--tone-red-500));
}
```

1.1159 utfbom 1.1.1

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1.1160 serf 0.9.5

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1.1162 github.com/caio/go-tdigest 3.1.0+incompatible

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1.1163 github.com/jackc/pgpassfile 1.0.0

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1.1164 gokrb 7.5.0

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1.1167 github.com/antchfx/xpath 1.2.0

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1.1168 github.com/hashicorp/jsonapi 0.0.0-20210826224640-ee7dae0fb22d

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1.1169 github.com/mattermost/xml-roundtrip-validator 0.1.0

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1.1170 mattermost-xml-roundtrip-validator 0.1.0

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1.1171 github.com/bits-and-blooms/bitset 1.2.0

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1.1172 github.com/minio/highwayhash 1.0.2

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1.1174 go-isatty 0.0.14

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1.1175 pq 1.10.3

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```
//go:build go1.10
// +build go1.10

package pq

import (
 "context"
 "database/sql/driver"
)

// NoticeHandler returns the notice handler on the given connection, if any. A
// runtime panic occurs if c is not a pq connection. This is rarely used
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
 return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A
// runtime panic occurs if c is not a pq connection. A nil handler may be used
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and
// ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
 c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
//
 on it.
type NoticeHandlerConnector struct {
 driver.Connector
 noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
 c, err := n.Connector.Connect(ctx)
 if err == nil {
  SetNoticeHandler(c, n.noticeHandler)
 }
 return c, err
```

```
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  return c.noticeHandler
 }
 return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and
 setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  c.noticeHandler = handler
  return c
 }
 return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}
```

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1.1176 libseccomp 2.5.1-1+deb11u1

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1.1178 gmp 6.2.1+dfsg-1+deb11u1

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1.1179 @sinonjs/fake-timers 8.1.0

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1.1180 apache-log4j 2.18.0

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1.1183 github.com/exponent-io/jsonpath 0.0.0-20151013193312-d6023ce2651d

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1.1184 kubernetes/kubectl 0.18.0

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{% endpanel %}

{% panel style="info", title="TL;DR" %}
- Copy files to and from Containers in a cluster
{% endpanel %}

Copying Container Files

Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

{% panel style="warning", title="Install Tar" %}

Copy requires that *tar* be installed in the container image.
{% endpanel %}

{% method %}
Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `<path>`
- Remote file format is `<pod-name>:<path>`

{% sample lang="yaml" %}

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

{% endmethod %}

{% method %}
Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `<path>`
- Remote file format is `<pod-name>:<path>`

{% sample lang="yaml"
 %}

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```

{% endmethod %}

{% method %}
Specify the Container

Specify the Container within a Pod running multiple containers.

- `-c <container-name>`

{% sample lang="yaml" %}

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

{% endmethod %}

{% method %}
Namespaces

Set the Pod namespace by prefixing the Pod name with `<namespace>/` .

- `<pod-namespace>/<pod-name>:<path>`

{% sample lang="yaml" %}

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

{% endmethod %}

1.1185 tabwriter 0.0.0-20181228230101-89fcab3d43de

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1.1189 go-difflib 1.0.1-0.20181226105442-5d4384ee4fb2

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1.1190 string-natural-compare 3.0.1

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1.1191 bfj 7.0.2

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1.1192 github.com/clbanning/mxj 1.8.4

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1.1193 github.com/mholt/archiver/v3 3.5.0

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1.1194 go-flowrate 0.0.0-20140419014527-cca7078d478f

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1.1195 failsafe 2.4.4

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* /opt/cola/permits/1248079029_1640410634.49/0/failsafe-2-4-4-sources-jar/net/jodah/failsafe/function/ContextualSupplier.java
* /opt/cola/permits/1248079029_1640410634.49/0/failsafe-2-4-4-sources-jar/net/jodah/failsafe/function/AsyncRunnable.java
* /opt/cola/permits/1248079029_1640410634.49/0/failsafe-2-4-4-sources-jar/net/jodah/failsafe/function/CheckedRunnable.java
* /opt/cola/permits/1248079029_1640410634.49/0/failsafe-2-4-4-sources-jar/net/jodah/failsafe/util/concurrent/DefaultScheduledFuture.java
* /opt/cola/permits/1248079029_1640410634.49/0/failsafe-2-4-4-sources-jar/net/jodah/failsafe/internal/util/Assert.java

*
/opt/cola/permits/1248079029_1640410634.49/0/failsafe-2-4-4-sources-jar/net/jodah/failsafe/function/AsyncSupplier.java
* /opt/cola/permits/1248079029_1640410634.49/0/failsafe-2-4-4-sources-jar/net/jodah/failsafe/FailsafeExecutor.java
* /opt/cola/permits/1248079029_1640410634.49/0/failsafe-2-4-4-sources-jar/net/jodah/failsafe/Execution.java
* /opt/cola/permits/1248079029_1640410634.49/0/failsafe-2-4-4-sources-jar/net/jodah/failsafe/Fallback.java
* /opt/cola/permits/1248079029_1640410634.49/0/failsafe-2-4-4-sources-jar/net/jodah/failsafe/function/CheckedSupplier.java
* /opt/cola/permits/1248079029_1640410634.49/0/failsafe-2-4-4-sources-jar/net/jodah/failsafe/CircuitBreaker.java
* /opt/cola/permits/1248079029_1640410634.49/0/failsafe-2-4-4-sources-jar/net/jodah/failsafe/function/CheckedConsumer.java
* /opt/cola/permits/1248079029_1640410634.49/0/failsafe-2-4-4-sources-jar/net/jodah/failsafe/FailsafeFuture.java
*
/opt/cola/permits/1248079029_1640410634.49/0/failsafe-2-4-4-sources-jar/net/jodah/failsafe/util/concurrent/Scheduler.java
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* /opt/cola/permits/1248079029_1640410634.49/0/failsafe-2-4-4-sources-jar/net/jodah/failsafe/FallbackExecutor.java
* /opt/cola/permits/1248079029_1640410634.49/0/failsafe-2-4-4-sources-jar/net/jodah/failsafe/PolicyExecutor.java
*
/opt/cola/permits/1248079029_1640410634.49/0/failsafe-2-4-4-sources-jar/net/jodah/failsafe/internal/CountingCircuitStats.java
* /opt/cola/permits/1248079029_1640410634.49/0/failsafe-2-4-4-sources-jar/net/jodah/failsafe/internal/CircuitStats.java
* /opt/cola/permits/1248079029_1640410634.49/0/failsafe-2-4-4-sources-jar/net/jodah/failsafe/RetryPolicyExecutor.java
* /opt/cola/permits/1248079029_1640410634.49/0/failsafe-2-4-4-sources-

jar/net/jodah/failsafe/TimeoutExecutor.java
* /opt/cola/permits/1248079029_1640410634.49/0/failsafe-2-4-4-sources-jar/net/jodah/failsafe/internal/util/RandomDelay.java
* /opt/cola/permits/1248079029_1640410634.49/0/failsafe-2-4-4-sources-jar/net/jodah/failsafe/internal/EventListener.java
* /opt/cola/permits/1248079029_1640410634.49/0/failsafe-2-4-4-sources-jar/net/jodah/failsafe/ExecutionResult.java
* /opt/cola/permits/1248079029_1640410634.49/0/failsafe-2-4-4-sources-jar/net/jodah/failsafe/Policy.java
* /opt/cola/permits/1248079029_1640410634.49/0/failsafe-2-4-4-sources-jar/net/jodah/failsafe/internal/util/DelegatingScheduler.java
* /opt/cola/permits/1248079029_1640410634.49/0/failsafe-2-4-4-sources-jar/net/jodah/failsafe/event/ExecutionEvent.java
* /opt/cola/permits/1248079029_1640410634.49/0/failsafe-2-4-4-sources-jar/net/jodah/failsafe/PolicyListeners.java
* /opt/cola/permits/1248079029_1640410634.49/0/failsafe-2-4-4-sources-jar/net/jodah/failsafe/FailurePolicy.java
* /opt/cola/permits/1248079029_1640410634.49/0/failsafe-2-4-4-sources-jar/net/jodah/failsafe/event/ExecutionScheduledEvent.java
* /opt/cola/permits/1248079029_1640410634.49/0/failsafe-2-4-4-sources-jar/net/jodah/failsafe/internal/TimedCircuitStats.java
* /opt/cola/permits/1248079029_1640410634.49/0/failsafe-2-4-4-sources-jar/net/jodah/failsafe/event/ExecutionAttemptedEvent.java
* /opt/cola/permits/1248079029_1640410634.49/0/failsafe-2-4-4-sources-jar/net/jodah/failsafe/event/ExecutionCompletedEvent.java

1.1196 httpasyncclient 4.1.5

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1.1197 error_prone_annotations 2.10.0

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jar/com/google/errorprone/annotations/CompileTimeConstant.java
* /opt/cola/permits/1248377789_1640376178.61/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/Immutable.java
* /opt/cola/permits/1248377789_1640376178.61/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/concurrent/LazyInit.java
* /opt/cola/permits/1248377789_1640376178.61/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/Var.java
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* /opt/cola/permits/1248377789_1640376178.61/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/RequiredModifiers.java
* /opt/cola/permits/1248377789_1640376178.61/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java
* /opt/cola/permits/1248377789_1640376178.61/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/ForOverride.java
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* /opt/cola/permits/1248377789_1640376178.61/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/DoNotCall.java
* /opt/cola/permits/1248377789_1640376178.61/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/OverridingMethodsMustInvokeSuper.java
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1.1198 httpcomponents-core 4.4.15

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1.1208 camelcase 6.3.0

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1.1209 go-playground-universal-translator 0.0.0-20170327191703-71201497bace

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1.1210 gdamore-encoding 1.0.0

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1.1211 httpparser 2.21

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1.1212 github.com/makenowjust/heredoc 1.0.0

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1.1216 go-debug 1.1.0

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1.1217 fs-monkey 1.0.3

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1.1219 github.com/yudai/golcs 0.0.0-20170316035057-ecda9a501e82

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1.1220 mwitkow-go-conntrack 0.0.0-20190716064945-2f068394615f

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1.1221 github.com/gchaincl/sqlhooks 1.3.0

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1.1222 google-apis 1.4.1

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1.1223 xorm.io/xorm 0.8.2

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1.1224 cheekybits/genny 1.0.0

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1.1225 gopkg.in/mail.v2 2.3.1

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1.1226 github.com/mpvl/unique 0.0.0-20150818121801-cbe035fff7de

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1.1227 jessevdk-go-flags 1.5.0

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1.1228 github.com/cockroachdb/apd/v2 2.0.2

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1.1232 github.com/google/wire 0.5.0

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1.1233 go-hclog 0.16.1

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1.1234 github.com/linkedin/goavro/v2 2.10.0

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1.1236 xorm.io/core 0.7.3

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1.1237 xorm.io/builder 0.3.6

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1.1238 github.com/m3db/prometheus_remote_client_golang 0.4.4

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1.1239 cglib 2.1.3

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1.1245 levenshtein 1.2.2

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1.1247 github.com/google/go-intervals 0.0.2

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1.1249 github.com/acarl005/stripansi 0.0.0-20180116102854-5a71ef0e047d

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1.1251 msgpack 4.3.12

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1.1252 github.com/gorilla/securecookie 1.1.1

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1.1253 go-runewidth 0.0.13

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1.1254 chokidar 3.5.3

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1.1255 jackson 2.17.1

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Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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It is currently developed by a community of developers.

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* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/bytecode/AnnotationsAttribute.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/tools/Dump.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/bytecode/ByteArray.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/URLClassPath.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/tools/rmi/RemoteException.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/compiler/ast/Visitor.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/bytecode/LongVector.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/tools/rmi/RemoteRef.java
*

/opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/convert/TransformFieldAccess.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/bytecode/LocalVariableAttribute.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/scopedpool/ScopedClassPoolRepositoryImpl.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/tools/web/BadHttpRequest.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/bytecode/FieldInfo.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/tools/reflect/Metalevel.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/NotFoundException.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/expr/NewExpr.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/bytecode/Mnemonic.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/util/proxy/RuntimeSupport.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/convert/TransformNew.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/util/proxy/ProxyObjectInputStream.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/tools/reflect/Loader.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/convert/TransformWriteField.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/bytecode/ExceptionsAttribute.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/CtPrimitiveType.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/bytecode/analysis/SubroutineScanner.java

1.1257 lib-pq 1.10.4

1.1257.1 Available under license :

```
//go:build go1.10
// +build go1.10

package pq

import (
 "context"
 "database/sql/driver"
)

// NoticeHandler returns the notice handler on the given connection, if any. A
// runtime panic occurs if c is not a pq connection. This is rarely used
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
```

```
func NoticeHandler(c driver.Conn) func(*Error) {
 return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A
// runtime panic occurs if c is not a pq connection. A nil handler may be used
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and
// ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
 c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
//
 on it.
type NoticeHandlerConnector struct {
 driver.Connector
 noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
 c, err := n.Connector.Connect(ctx)
 if err == nil {
  SetNoticeHandler(c, n.noticeHandler)
 }
 return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  return c.noticeHandler
 }
 return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and
```

```
 setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  c.noticeHandler = handler
  return c
 }
 return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}
```

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1.1258 cglib 3.2.5

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1.1259 stateless4j 2.5.0

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* /opt/cola/permits/1257784248_1643014186.5/0/stateless4j-2-5-0-sources-jar/com/github/oxo42/stateless4j/delegates/FuncBoolean.java
* /opt/cola/permits/1257784248_1643014186.5/0/stateless4j-2-5-0-sources-jar/com/github/oxo42/stateless4j/OutVar.java

1.1260 sizeof-agent 1.0.1

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1.1261 jcip-annotation 1.0-1

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```

Found in path(s):
* /opt/cola/permits/1257847088_1643019261.83/0/jcip-annotations-1-0-1-sources-jar/net/jcip/annotations/Immutable.java
* /opt/cola/permits/1257847088_1643019261.83/0/jcip-annotations-1-0-1-sources-

jar/net/jcip/annotations/NotThreadSafe.java
* /opt/cola/permits/1257847088_1643019261.83/0/jcip-annotations-1-0-1-sources-jar/net/jcip/annotations/ThreadSafe.java
*
/opt/cola/permits/1257847088_1643019261.83/0/jcip-annotations-1-0-1-sources-jar/net/jcip/annotations/GuardedBy.java

1.1262 sequence-generator 5.7.3

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Manifest-Version: 1.0
Bnd-LastModified: 1563545580901
Build-Jdk: 1.8.0_202
Built-By: jenkins-slave
Bundle-Description: A set of Java modules for management and monitoring,
common to several Terracotta products
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Terracotta Management :: Sequence Generator
Bundle-SymbolicName: org.terracotta.management.sequence-generator
Bundle-Version: 5.7.3
Created-By: Apache Maven Bundle Plugin
Export-Package: org.terracotta.management.sequence;version="5.7.3",org.t
erracotta.management.sequence.perf;version="5.7.3"
Main-Class: org.terracotta.management.sequence.perf.PerfTest
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-2.4.1.201501161923

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* /opt/cola/permits/1258059180_1643027223.49/0/sequence-generator-5-7-3-jar/META-INF/MANIFEST.MF
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1.1263 management-model 5.7.3

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* /opt/cola/permits/1258059149_1643027380.56/0/management-model-5-7-3-sources-jar/org/terracotta/management/model/call/ContextualCall.java
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* /opt/cola/permits/1258059149_1643027380.56/0/management-model-5-7-3-sources-jar/org/terracotta/management/model/capabilities/descriptors/Descriptor.java
* /opt/cola/permits/1258059149_1643027380.56/0/management-model-5-7-3-sources-jar/org/terracotta/management/model/stats/Statistic.java
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1.1264 j-keck-arping 1.0.2

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1.1265 tim-ehcache-2.x-hibernate-ui 1.9.4

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1.1266 ehcache-terracotta 2.6.5

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* /opt/cola/permits/1258365803_1643062100.62/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/cluster/ClusterNode.java
* /opt/cola/permits/1258365803_1643062100.62/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/hibernate/regions/EhcacheCollectionRegion.java
* /opt/cola/permits/1258365803_1643062100.62/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/transaction/TransactionException.java
* /opt/cola/permits/1258365803_1643062100.62/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/constructs/blocking/BlockingCache.java
* /opt/cola/permits/1258365803_1643062100.62/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/LibraryInit.java
* /opt/cola/permits/1258365803_1643062100.62/0/ehcache-core-2-6-5-sources-1-

jar/net/sf/ehcache/writer/writebehind/operations/KeyBasedOperation.java
* /opt/cola/permits/1258365803_1643062100.62/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/search/Direction.java
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/opt/cola/permits/1258365803_1643062100.62/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/transaction/manager/selector/FactorySelector.java
* /opt/cola/permits/1258365803_1643062100.62/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/hibernate/management/impl/CacheRegionStats.java
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* /opt/cola/permits/1258365803_1643062100.62/0/ehcache-core-2-6-5-sources-1-
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* /opt/cola/permits/1258365803_1643062100.62/0/ehcache-core-2-6-5-sources-1-
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* /opt/cola/permits/1258365803_1643062100.62/0/ehcache-core-2-6-5-sources-1-
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* /opt/cola/permits/1258365803_1643062100.62/0/ehcache-core-2-6-5-sources-1-
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* /opt/cola/permits/1258365803_1643062100.62/0/ehcache-core-2-6-5-sources-1-
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* /opt/cola/permits/1258365803_1643062100.62/0/ehcache-core-2-6-5-sources-1-
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* /opt/cola/permits/1258365803_1643062100.62/0/ehcache-core-2-6-5-sources-1-
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* /opt/cola/permits/1258365803_1643062100.62/0/ehcache-core-2-6-5-sources-1-
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* /opt/cola/permits/1258365803_1643062100.62/0/ehcache-core-2-6-5-sources-1-
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* /opt/cola/permits/1258365803_1643062100.62/0/ehcache-core-2-6-5-sources-1-
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* /opt/cola/permits/1258365803_1643062100.62/0/ehcache-core-2-6-5-sources-1-
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* /opt/cola/permits/1258365803_1643062100.62/0/ehcache-core-2-6-5-sources-1-
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jar/net/sf/ehcache/search/impl/ResultImpl.java
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* /opt/cola/permits/1258365803_1643062100.62/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/util/counter/sampled/SampledRateCounter.java
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/opt/cola/permits/1258365803_1643062100.62/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/search/impl/AggregateOnlyResult.java
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jar/net/sf/ehcache/distribution/CacheManagerPeerProvider.java
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jar/net/sf/ehcache/config/generator/model/elements/CacheConfigurationElement.java
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* /opt/cola/permits/1258365803_1643062100.62/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/transaction/manager/selector/Selector.java
* /opt/cola/permits/1258365803_1643062100.62/0/ehcache-core-2-6-5-sources-1-
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* /opt/cola/permits/1258365803_1643062100.62/0/ehcache-core-2-6-5-sources-1-
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* /opt/cola/permits/1258365803_1643062100.62/0/ehcache-core-2-6-5-sources-1-
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* /opt/cola/permits/1258365803_1643062100.62/0/ehcache-core-2-6-5-sources-1-
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* /opt/cola/permits/1258365803_1643062100.62/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/distribution/RMICacheManagerPeerProviderFactory.java
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jar/net/sf/ehcache/management/sampled/SampledEhcacheMBeans.java
* /opt/cola/permits/1258365803_1643062100.62/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/store/disk/ods/AATreeSet.java
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*/
/**
   * Returns a list of all element keys in the cache, whether or not they are expired.
   * <p/>
   * The returned keys are unique and can almost be considered a set. See {@link net.sf.ehcache.store.CacheKeySet CacheKeySet} for
   * more details.
   * <p/>
   * The List returned is not live. It is a copy.
    * <p/>
   * The time taken is O(n). On a single CPU 1.8Ghz P4, approximately 8ms is required
   * for each 1000 entries.
   *
   * @return a list of {@link Object} keys
   * @throws IllegalStateException if the cache is not {@link Status#STATUS_ALIVE}
   * @see net.sf.ehcache.store.CacheKeySet
   */

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1.1267 tim-ehcache-2.x 1.9.4

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* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-jar/org/terracotta/modules/ehcache/writebehind/snapshots/SerializationElementSnapshot.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-jar/org/terracotta/modules/ehcache/writebehind/snapshots/SerializationKeySnapshot.java
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* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-jar/org/terracotta/modules/ehcache/transaction/ClusteredTransactionID.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-jar/org/terracotta/modules/ehcache/writebehind/operations/DeleteAsyncOperation.java
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* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-

jar/org/terracotta/modules/ehcache/transaction/ReadCommittedClusteredSoftLockFactory.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-jar/org/terracotta/modules/ehcache/writebehind/snapshots/IdentityElementSnapshot.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-jar/org/terracotta/modules/ehcache/writebehind/KeyBasedOperationWrapper.java
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* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-jar/org/terracotta/modules/ehcache/writebehind/OperationsFilterWrapper.java
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* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-jar/org/terracotta/modules/ehcache/writebehind/AsyncWriteBehind.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-jar/org/terracotta/modules/ehcache/transaction/ReadCommittedClusteredSoftLock.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-jar/org/terracotta/modules/ehcache/writebehind/operations/SingleAsyncOperation.java
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```

```
*/
/**
* An implementation of {@code ItemProcessor} that delegates the processing to a {@code CacheWriter} instance
* <p/>
* Instances of this class will be used when items are processed one by one. Note that {@code CacheWriter}
* instances will not be shared across a Terracotta DSO cluster and are intended to be
 local on a node. They are tied to
* an individual write behind queue. You're thus free to use local resources in an {@code CacheWriter}, like
* database connections or file handles.
*
* @author Geert Bevin
* @version $Id: CacheWriterWrapper.java 29067 2011-08-02 10:07:00Z alexsnaps $
*/
```

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1.1268 tim-ehcache-2.x-ui 1.9.4

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The Licensed Software may provide links to third party libraries or code (collectively "Third-Party Software") to implement various functions. Third-Party Software does not comprise part of the Licensed Software. In some cases, access to Third-Party Software may be included with the Licensed Software. Such Third-Party Software will be listed in the ".../src/3rdparty" source tree delivered with the Licensed Software or documented in the Licensed Software, as such may be amended from time to time. Licensee acknowledges that use or distribution of Third-Party Software is in all respects subject to applicable license terms of applicable third-party right holders.

5. PRE-RELEASE CODE
The Licensed Software may contain pre-release code and functionality, or sample code marked or otherwise stated with appropriate designation such as "Technology Preview", "Alpha", "Beta", "Sample" etc. ("Pre-Release Code").

Such Pre-Release Code may be present complimentary for the Licensee, in order to provide experimental support or information for new platforms or preliminary versions of one or more new functionalities or for other similar reasons. The Pre-Release Code may not be at the level of performance and compatibility of a final, generally available, product offering. The Pre-Release Code may not

operate correctly, may contain errors and may be substantially modified by The Qt Company prior to the first commercial product release, if any. The Qt Company is under no obligation to make Pre-Release Code commercially available, or provide any Support or Updates relating thereto. The Qt Company assumes no liability whatsoever regarding any Pre-Release Code, but any use thereof is exclusively at Licensee's own risk and expense.

For clarity, unless Licensed Software specifies different license terms for the respective Pre-Release Code, the Licensee is entitled to use such pre-release code pursuant to Section 3, just like other Licensed Software, provided however that in the event Add-on Products are included and available as such Pre-Release Code, Licensee's right to use such Add-on Products is nevertheless subject to and conditional upon conclusion of separate agreement with The Qt Company.

6. LIMITED WARRANTY AND WARRANTY DISCLAIMER

The Qt Company hereby represents and warrants that it has the power and authority to grant the rights and licenses granted to Licensee under this Agreement.

Except as set forth above, the Licensed Software is licensed to Licensee "as is" and Licensee's exclusive remedy and The Qt Company's entire liability for errors in the Licensed Software shall be limited, at The Qt Company's option, to correction of the error, replacement of the Licensed Software or return of the applicable fees paid for the defective Licensed Software for the time period during which the License is not able to utilize the Licensed Software under the terms of this Agreement.

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, THE QT COMPANY ON BEHALF OF ITSELF AND ITS LICENSORS, SUPPLIERS AND AFFILIATES, DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT WITH REGARD TO THE LICENSED SOFTWARE. THE QT COMPANY DOES NOT WARRANT THAT THE LICENSED SOFTWARE WILL SATISFY LICENSEE'S REQUIREMENTS OR THAT IT WILL OPERATE WITHOUT DEFECT OR ERROR OR THAT THE OPERATION THEREOF WILL BE UNINTERRUPTED.

7. INDEMNIFICATION AND LIMITATION OF LIABILITY

7.1. Limitation of Liability

EXCEPT FOR (I) CASES OF GROSS NEGLIGENCE OR INTENTIONAL MISCONDUCT, AND (II) BREACH OF CONFIDENTIALITY, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL EITHER PARTY BE LIABLE TO THE OTHER PARTY FOR ANY LOSS OF PROFIT, LOSS OF DATA, LOSS OF BUSINESS OR GOODWILL OR ANY OTHER INDIRECT, SPECIAL, CONSEQUENTIAL, INCIDENTAL OR PUNITIVE COST, DAMAGES OR EXPENSE OF ANY KIND, HOWSOEVER ARISING UNDER OR IN CONNECTION WITH THIS AGREEMENT.

EXCEPT FOR (I) CASES OF GROSS NEGLIGENCE OR INTENTIONAL MISCONDUCT, AND (II) BREACH OF CONFIDENTIALITY, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL EITHER PARTY'S TOTAL AGGREGATE LIABILITY UNDER THIS AGREEMENT EXCEED THE AGGREGATE LICENSE FEES PAID OR PAYABLE TO THE QT COMPANY FROM LICENSEE DURING THE PERIOD OF TWELVE (12) MONTHS IMMEDIATELY PRECEDING THE EVENT RESULTING IN SUCH LIABILITY.

THE PROVISIONS OF THIS SECTION 7 ALLOCATE THE RISKS UNDER THIS AGREEMENT BETWEEN THE QT COMPANY AND LICENSEE AND THE PARTIES HAVE RELIED UPON THE LIMITATIONS SET FORTH HEREIN IN DETERMINING WHETHER TO ENTER INTO THIS AGREEMENT.

NOTWITHSTANDING ANYTHING TO THE CONTRARY IN THIS AGREEMENT, LICENSEE SHALL ALWAYS BE LIABLE TO PAY THE APPLICABLE LICENSE FEES CORRESPONDING TO ITS ACTUAL USE OF LICENSED SOFTWARE.

8. SUPPORT, UPDATES AND ONLINE SERVICES

Upon due payment of the agreed License Fees the Licensee will be eligible to receive Support and Updates and to use the Online Services during the License Term, provided, however, that in the event the License Term is longer than 36 months, the initial payment includes Support for only the first 12 months, unless the Parties specifically otherwise agree.

Unless otherwise decided by The Company at its free and absolute discretion, Upgrades will not be included in the Support but may be available subject to additional fees.

From time to time The Qt Company may change the Support terms, provided that during the respective ongoing License Term the level of Support provided by The Qt Company may not be reduced without the consent of the Licensee.

Unless otherwise agreed, The Qt Company shall not be responsible for providing any service or support to Customers.

9. CONFIDENTIALITY

Each Party acknowledges that during the Term of this Agreement each Party may receive information about the other Party's business, business methods, business plans, customers, business relations, technology, and other information, including the terms of this Agreement, that is confidential and of great value to the other Party, and the value of which would be significantly reduced if disclosed to third parties ("Confidential Information"). Accordingly, when a Party (the "Receiving Party") receives Confidential Information from the other Party (the "Disclosing Party"), the Receiving Party shall only disclose such information to employees and

Contractors on a need to
know basis, and shall cause its employees and employees of its Affiliates to: (i) maintain any and all Confidential Information in confidence; (ii) not disclose the Confidential Information to a third party without the Disclosing Party's prior written approval; and (iii) not, directly or indirectly, use the Confidential Information for any purpose other than for exercising its rights and fulfilling its responsibilities pursuant to this Agreement. Each Party shall take reasonable measures to protect the Confidential Information of the other Party, which measures shall not be less than the measures taken by such Party to protect its own confidential and proprietary information.

Obligation of confidentiality shall not apply to information that (i) is or becomes generally known to the public through no act or omission of the Receiving Party; (ii) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations
on disclosure or
use; (iii) is developed independently by employees or Contractors of the Receiving Party or other persons working for the Receiving Party who have not had access to the Confidential Information of the Disclosing Party, as proven by the written records of the Receiving Party; (iv) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (v) the Receiving Party is legally compelled to disclose, in which case the Receiving Party shall notify the Disclosing Party of such compelled disclosure and assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to limit the scope of disclosure and the dissemination of disclosed Confidential Information to the minimum extent necessary.

The obligations under this Section 9 shall continue to remain in force for a period of five (5) years after the last disclosure, and, with respect to trade secrets, for so long
as such trade secrets are protected under applicable trade
secret laws.

10. FEES, DELIVERY AND PAYMENT

10.1. License Fees

License Fees are described in The Qt Company's standard price list, quote or Purchase Order confirmation or in an appendix hereto, as the case may be.

The License Fees shall not be refunded or claimed as a credit in any event or for any reason whatsoever.

10.2. Ordering Licenses

Licensee may purchase Development Licenses and Distribution Licenses pursuant to agreed pricing terms or, if no specific pricing terms have been agreed upon, at The Qt Company's standard pricing terms applicable at the time of purchase. Unless specifically otherwise provided, any pricing terms referenced in this Agreement shall be valid for twelve (12) months from the date of this Agreement.

Licensee shall submit all purchase orders for Development Licenses and Distribution Licenses to The Qt Company by email or any other method acceptable to The Qt Company (each such order is referred to herein as a "Purchase Order") for confirmation, whereupon the Purchase Order shall become binding between the Parties.

10.3. Distribution License Packs
Unless otherwise agreed, Distribution Licenses shall be purchased by way of Distribution License Packs.

Upon due payment of the ordered Distribution License Pack(s), the Licensee will have an account of Distribution Licenses available for distributing the Redistributables in accordance with this Agreement.

Each time Licensee distributes a copy of Redistributables, then one Distribution License is used, and Licensee's account of available Distribution Licenses is decreased accordingly.Licensee may distribute copies of the Redistributables so long as Licensee has Distribution Licenses remaining on its account.

10.4. Payment Terms
License Fees and any other charges under this Agreement shall be paid by Licensee no later than thirty (30) days from the date of the applicable invoice from The Qt Company.

The Qt Company will submit an invoice to Licensee after the date of this Agreement and/or after The Qt Company receives a Purchase Order from Licensee.

A late payment charge of the lower of (a) one percent per month; or (b) the interest rate stipulated by applicable law, shall be charged on any unpaid balances that remain past due.

10.5. Taxes
All License Fees and other charges payable hereunder are gross amounts but exclusive of any value added tax, use tax, sales tax, withholding tax and other taxes, duties or tariffs ("Taxes") levied directly for the sale, delivery or use of Licensed Software hereunder pursuant to any applicable law. Such applicable Taxes shall be paid by Licensee to The Qt Company, or, where applicable, in lieu of payment of such Taxes to The Qt Company, Licensee shall provide an exemption certificate to The Qt Company and any applicable authority.

11. RECORD-KEEPING AND REPORTING OBLIGATIONS; AUDIT RIGHTS
11.1. Licensee's Record-keeping
Licensee shall at all times during the Term of this

Agreement and for a period
of seven (7) years thereafter maintain Licensee's Records in an accurate and up-to-date form. Licensee's Records shall be adequate to reasonably enable The Qt Company to determine Licensee's compliance with the provisions of this Agreement. The records shall conform to general good accounting practices.

Licensee shall, within thirty (30) days from receiving The Qt Company's request to that effect, deliver to The Qt Company a report based on Licensee's Records, such report to contain information, in sufficient detail, on (i) number and identity of users working with Licensed Software or Open Source Qt, (ii) copies of Redistributables distributed by Licensee during the most recent calendar quarter and/or any other term specified by The Qt Company, (iii) number of undistributed copies of Redistributables and corresponding number of unused Distribution Licenses remaining on Licensee's account, and (iv) any other information as The Qt Company may reasonably require
from time to time.

11.2. The Qt Company's Audit Rights
The Qt Company or an independent auditor acting on behalf of The Qt Company's, may, upon at least five (5) business days' prior written notice and at its expense, audit Licensee with respect to the Licensee's use of the Licensed Software, but not more frequently than once during each 6-month period. Such audit may be conducted by mail, electronic means or through an in-person visit to Licensee's place of business. Any such in-person audit shall be conducted during regular business hours at Licensee's facilities and shall not unreasonably interfere with Licensee's business activities. The Qt Company or the independent auditor acting on behalf of The Qt Company shall be entitled to inspect Licensee's Records and conduct necessary interviews of Licensee's relevant employees and Contractors. All such Licensee's Records and use thereof shall be subject to an obligation of confidentiality under this Agreement.

If an audit reveals that
Licensee is using the Licensed Software beyond scope
of the licenses Licensee has paid for, Licensee agrees to pay The Qt Company any amounts owed for such unauthorized use within 30 days from receipt of the corresponding invoice from The Qt Company. In addition, in the event the audit reveals a material violation of the terms of this Agreement (without limitation, either (i) underpayment of more than 10 % of License Fees or 10,000 euros (whichever is more) or (ii) distribution of products, which include or result from Prohibited Combination, shall be deemed a material violation for purposes of this section), then the Licensee shall pay The Qt Company's reasonable cost of conducting such audit.

12. TERM AND TERMINATION
12.1. Agreement Term
This Agreement shall enter into force upon due acceptance by both Parties and remain in force for as long as there is any Development License(s) purchased under this Agreement in force ("Term"), unless and until terminated pursuant to

the terms of
this Section 12.

12.2. Termination and suspension of rights
Either Party shall have the right to terminate this Agreement upon thirty (30) days prior written notice if the other Party commits a material breach of any obligation of this Agreement and fails to remedy such breach within such notice period.

Instead of termination, The Qt Company shall have the right to suspend or withhold grants of all rights to the Licensed Software hereunder, including but not limited to the Development Licenses, Distribution License, and Support, should Licensee fail to make payment in timely fashion or otherwise violates or is reasonably suspected to violate its obligations or terms of this Agreement, and where such violation or breach is not cured within five (5) business days following The Qt Company's written notice thereof.

12.3. Mutual Right to Terminate
Either Party shall have the right to terminate this Agreement immediately upon written notice in the event that the other Party becomes insolvent,
files for
any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed over the whole or a substantial part of its assets, ceases to conduct business, or an act equivalent to any of the above occurs under the laws of the jurisdiction of the other Party.

12.4. Parties Rights and Duties upon Termination
Upon expiry or termination of the Agreement, Licensee shall cease and shall cause all Designated Users (including those of its Affiliates' and Contractors') to cease using the Licensed Software and distribution of the Redistributables under this Agreement.

Notwithstanding the above, in the event the Agreement expires or is terminated:

(i) as a result of The Qt Company choosing not to renew the Development License(s) as set forth in Section 3.1, then all valid licenses possessed by the Licensee at such date shall be extended to be valid in perpetuity under the terms
of this Agreement and Licensee
is entitled to purchase additional licenses as set forth in Section 10.2; or

(ii) for reason other than by The Qt Company pursuant to item (i) above or pursuant to Section 12.2, then the Licensee is entitled, for a period of six (6) months after the effective date of termination, to continue distribution of Devices under the Distribution Licenses paid but unused at such effective date of termination.

Upon any such termination the Licensee shall destroy or return to The Qt

Company all copies of the Licensed Software and all related materials and will certify the same to The Qt Company upon its request, provided however that Licensee may retain and exploit such copies of the Licensed Software as it may reasonably require in providing continued support to Customers.

Expiry or termination of this Agreement for any reason whatsoever shall not relieve Licensee of its obligation
to pay any License Fees accrued or payable
to The Qt Company prior to the effective date of termination, and Licensee shall immediately pay to The Qt Company all such fees upon the effective date of termination. Termination of this Agreement shall not affect any rights of Customers to continue use of Applications and Devices (and therein incorporated Redistributables).

12.5. Extension in case of bankruptcy
In the event The Qt Company is declared bankrupt under a final, non-cancellable decision by relevant court of law, and this Agreement is not, at the date of expiry of the Development License(s) pursuant to Section 3.1, assigned to party, who has assumed The Qt Company's position as a legitimate licensor of Licensed Software under this Agreement, then all valid licenses possessed by the Licensee at such date of expiry, and which the Licensee has not notified for expiry, shall be extended to be valid in perpetuity under the terms of this Agreement.

13. GOVERNING LAW AND LEGAL VENUE
In
the event this Agreement is in the name of The Qt Company Inc., a Delaware Corporation, then:

(i) this Agreement shall be construed and interpreted in accordance with the laws of the State of California, USA, excluding its choice of law provisions;
(ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and
(iii) any dispute, claim or controversy arising out of or relating to this Agreement or the breach, termination, enforcement, interpretation or validity thereof, including the determination of the scope or applicability of this Agreement to arbitrate, shall be determined by arbitration in San Francisco, USA, before one arbitrator. The arbitration shall be administered by JAMS pursuant to JAMS' Streamlined Arbitration Rules and Procedures. Judgment on the Award may be entered in any
court having jurisdiction. This
Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

In the event this Agreement is in the name of The Qt Company Ltd., a Finnish Company, then:

(i) this Agreement shall be construed and interpreted in accordance with the laws of Finland, excluding its choice of law provisions;

(ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and

(iii) any disputes, controversy or claim arising out of or relating to this Agreement, or the breach, termination or validity thereof shall be finally settled by arbitration in accordance with the Arbitration Rules of Finland Chamber of Commerce. The arbitration tribunal shall consist of one (1), or if either Party so requires, of three (3),

arbitrators. The award shall be final and binding and enforceable in any court of competent jurisdiction. The arbitration shall be held in Helsinki, Finland and the process shall be conducted in the English language. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

14. GENERAL PROVISIONS

14.1. No Assignment

Except in the case of a merger or sale of substantially all of its corporate assets, Licensee shall not be entitled to assign or transfer all or any of its rights, benefits and obligations under this Agreement without the prior written consent of The Qt Company, which shall not be unreasonably withheld or delayed. The Qt Company shall be entitled to freely assign or transfer any of its rights, benefits or obligations under this Agreement.

14.2. No Third-Party Representations

Licensee shall make no representations or warranties concerning the Licensed Software on behalf of The Qt Company. Any representation or warranty Licensee makes or purports to make on The Qt Company's behalf shall be void as to The Qt Company.

14.3. Surviving Sections

Any terms and conditions that by their nature or otherwise reasonably should survive termination of this Agreement shall so be deemed to survive. Such sections include especially the following: 1, 2, 6, 7, 9, 11, 12.4, 13 and 14.

14.4. Entire Agreement

This Agreement, the exhibits hereto, the License Certificate and any applicable Purchase Order accepted by The Qt Company constitute the complete agreement between the Parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein.

In the event of any conflict or inconsistency between this Agreement and any Purchase Order, the terms of this Agreement will prevail over the terms of the Purchase Order with respect to such conflict

or inconsistency.

Parties specifically acknowledge and agree that this Agreement prevails over any click-to-accept or similar agreements the Designated Users may need to accept online upon download of the Licensed Software, as may be required by The Qt Company's applicable processes relating to Licensed Software.

14.5. Modifications
No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each Party. No term or condition contained in Licensee's Purchase Order ("Deviating Terms") shall apply unless The Qt Company has expressly agreed such Deviating Terms in writing. Unless and to the extent expressly agreed by The Qt Company, any such Deviating Terms shall be deemed void and with no legal effect. For clarity, delivery of the Licensed Software following the receipt of the Purchase Order including Deviating Terms shall not constitute acceptance of such Deviating Terms."

14.6. Force Majeure
Except for the payment obligations
hereunder, neither Party shall be liable to
the other for any delay or non-performance of its obligations hereunder in the event and to the extent that such delay or non-performance is due to an event of act of God, terrorist attack or other similar unforeseeable catastrophic event that prevents either Party for fulfilling its obligations under this Agreement and which such Party cannot avoid or circumvent ("Force Majeure Event"). If the Force Majeure Event results in a delay or non-performance of a Party for a period of three (3) months or longer, then either Party shall have the right to terminate this Agreement with immediate effect without any liability (except for the obligations of payment arising prior to the event of Force Majeure) towards the other Party.

14.7. Notices
Any notice given by one Party to the other shall be deemed properly given and deemed received if specifically acknowledged by the receiving Party in writing or when successfully delivered to the recipient
by hand, fax, or special
courier during normal business hours on a business day to the addresses specified for each Party on the signature page. Each communication and document made or delivered by one Party to the other Party pursuant to this Agreement shall be in the English language.

14.8. Export Control
Licensee acknowledges that the Redistributables, as incorporated in Applications or Devices, may be subject to export control restrictions under the applicable laws of respective countries. Licensee shall fully comply with all applicable export license restrictions and requirements as well as with all laws and regulations relating to the Redistributables and exercise of licenses

hereunder and shall procure all necessary governmental authorizations, including without limitation, all necessary licenses, approvals, permissions or consents, where necessary for the re-exportation of the Redistributables, Applications and/or Devices.

14.9. No Implied License
There are no implied licenses
or other implied rights granted under this
Agreement, and all rights, save for those expressly granted hereunder, shall remain with The Qt Company and its licensors. In addition, no licenses or immunities are granted to the combination of the Licensed Software with any other software or hardware not delivered by The Qt Company under this Agreement.

14.10. Attorney Fees
The prevailing Party in any action to enforce this Agreement shall be entitled to recover its attorney's fees and costs in connection with such action.

14.11. Privacy
Licensee acknowledges and agrees that for the purpose of this Agreement, The Qt Company may collect, use, transfer and disclose personal data pertaining to Designated Users as well as any other employees and directors of the Licensee and its Contractors relevant for carrying out the intent of this Agreement. Such personal data may be collected from the Licensee or directly from the relevant individuals. The Parties acknowledge that with regard to such
personal
data processed hereunder, The Qt Company shall be regarded as the Data Controller under the applicable Data Protection Legislation. The Qt Company shall process any such personal data in accordance with its privacy policies and practices, which will comply with all applicable requirements of the Data Protection Legislation.

14.12. Severability
If any provision of this Agreement shall be adjudged by any court of competent jurisdiction to be unenforceable or invalid, that provision shall be limited or eliminated to the minimum extent necessary so that this Agreement shall otherwise remain in full force and effect and enforceable.

APPENDICES
The Agreement includes Appendix 1, and possibly one or more of the appendices 3-5, depending on the product(s) purchased by the Licensee, what is stated in the quote or invoice, and/or what is stated in the Licensee's License Certificate.

APPENDIX 1
The modules and/or tools that are included in the respective product - Qt for

Application
Development (QtAD), Qt for Device Creation (QtDC), Qt for MCUs (QtMCU), Qt 3D Studio (Qt3DS) and Qt Design Studio (QtDS) - are marked with 'X' in the below table.

Parts of the product that are permitted for distribution in object-code form only ("Redistributables") are marked with 'R' in the below table.

Modules/Tools	QtAD	QtDC	QtMCU	Qt3DS	QtDS
Qt Core	X,R	X,R			
Qt GUI	X,R	X,R			
Qt Multimedia	X,R	X,R			
Qt Multimedia Widgets	X,R	X,R			
Qt Network	X,R	X,R			
Qt QML	X,R	X,R			
Qt Quick	X,R	X,R			
Qt Quick Controls 2	X,R	X,R			
Qt Quick Dialogs	X,R	X,R			
Qt Quick Layouts	X,R	X,R			
Qt Quick Test	X,R	X,R			
Qt SQL	X,R	X,R			
Qt Test	X,R	X,R			
Qt Widgets	X,R	X,R			
Active Qt	X,R	X,R			
Qt 3D	X,R	X,R			
Qt Android Extras	X,R	X,R			
Qt					

Bluetooth	X,R	X,R		
Qt Canvas 3D	X,R	X,R		
Qt Concurrent	X,R	X,R		
Qt D-Bus	X,R	X,R		
Qt Gamepad	X,R	X,R		
Qt Graphical Effects	X,R	X,R		
Qt Help	X,R	X,R		
Qt Image Formats	X,R	X,R		
Qt Location	X,R	X,R		
Qt Mac Extras	X,R	X,R		
Qt Network Authorization	X,R	X,R		
Qt NFC	X,R	X,R		
Qt Platform Headers	X,R	X,R		
Qt Positioning	X,R	X,R		
Qt Print Support	X,R	X,R		
Qt Purchasing	X,R	X,R		
Qt for Python	X,R	X,R		
Qt Quick Controls	X,R	X,R		
Qt Quick Extras	X,R	X,R		
Qt Quick Widgets	X,R	X,R		
Qt SCXML	X,R	X,R		
Qt Sensors	X,R	X,R		
Qt Serial Bus	X,R	X,R		

Qt Serial Port	X,R	X,R		
Qt Speech	X,R	X,R		
Qt SVG	X,R	X,R		
Qt UI Tools	X,R	X,R		
Qt WebChannel	X,R	X,R		
Qt WebEngine	X,R	X,R		
Qt WebSockets	X,R	X,R		
Qt WebView	X,R	X,R		
Qt Windows Extras	X,R	X,R		
Qt X11 Extras	X,R	X,R		
Qt XML	X,R	X,R		
Qt XML Patterns	X,R	X,R		
Qt Wayland Compositor	X,R	X,R		
Qt Charts	X,R	X,R		
Qt Data Visualization	X,R	X,R		
Qt Virtual Keyboard	X,R	X,R		
Boot 2 Qt stack		X,R		
Qt OTA		X,R		
Device Utilities		X,R		
Qt Debugging Bridge (QDB) Daemon		X,R		
Qt Quick Ultralite Controls			X,R	
Qt Quick Ultralite			X,R	

```
Qt Creator                          |
  X  |  X  |  X  |     |
-------------------------------------------------------------------------------
Qt Designer (Qt Widget Designer)      |  X  |  X  |     |     |
-------------------------------------------------------------------------------
Qt Quick Designer (Qt Creator plugin) |  X  |  X  |  X  |     |
-------------------------------------------------------------------------------
Qt Linguist                         |  X  |  X  |  X  |     |
-------------------------------------------------------------------------------
Qt Assistant                        |  X  |  X  |  X  |     |
-------------------------------------------------------------------------------
lupdate                             |  X  |  X  |  X  |     |
-------------------------------------------------------------------------------
lrelease                            |  X  |  X  |  X  |     |
-------------------------------------------------------------------------------
qmake
                                |  X  |  X  |     |     |
-------------------------------------------------------------------------------
uic                                 |  X  |  X  |     |     |
-------------------------------------------------------------------------------
rcc                                 |  X  |  X  |     |     |
-------------------------------------------------------------------------------
qlalr                               |  X  |  X  |     |     |
-------------------------------------------------------------------------------
qdoc                                |  X  |  X  |     |     |
-------------------------------------------------------------------------------
qmlscene                            |  X  |  X  |     |     |
-------------------------------------------------------------------------------
qmlviewer                           |  X  |  X
  |     |     |
-------------------------------------------------------------------------------
Target toolchains                     |     |  X  |  X  |     |
-------------------------------------------------------------------------------
Qt Debugging Bridge (QDB) Host Tools  |     |  X  |     |     |
-------------------------------------------------------------------------------
qtconfig-gui                          |     |  X  |     |     |
-------------------------------------------------------------------------------
Qt Emulator                           |     |  X  |     |     |
-------------------------------------------------------------------------------
qmlinterfacegenerator                 |     |     |  X  |     |
-------------------------------------------------------------------------------
qmltocpp                              |     |     |  X  |     |
-------------------------------------------------------------------------------
qulfontcompiler
                        |     |     |  X  |     |
-------------------------------------------------------------------------------
Qt53DStudioRuntime2                   |     |     |     | X,R |
-------------------------------------------------------------------------------
```

Qt 3D Studio				X	
Qt Design Studio					X

APPENDIX 3: ADDITIONS TO LICENSED SOFTWARE

In addition to what is provided under the definition of the Licensed Software, Parties agree that Licensed Software shall also include the Add-On Products of The Qt Company, as mentioned in this Appendix, if included in the quote / invoice.

The Modules and/or Tools of the Licensed Software that are included with each Add-On Product respectively are marked with 'X' in the below table. Parts of the respective Add-On Product that are permitted for distribution in object-code form only ("Redistributables") are marked with 'R' in the below table.

Modules / Tools of Licensed Software	Add-On Product(s)					
	Qt for Automation Suite	Qt Automotive Manager	Qt Safe Renderer	Qt Application Manager	Qt Gammaray	Qt Deployment Platform Package
Qt MQTT	X,R					
Qt KNX	X,R					
Qt OPC UA	X,R					
Qt CoAP	X,R					
Qt Safe Renderer		X,R	X,R			
Qt Application Manager		X,R		X,R		
Qt IVI		X,R				
Reference UI		X,R				

Qt GENIVI | | X,R | | | |
Extras | | | | | |

QML Live | | X | | | |

Qt Creator | | X | | | |
Deployment | | | | | |

Qt Creator | | | | | |
Plugin for | | | | | |
Qt | |
X | | X | |
Application | | | | | |
Manager | | | | | |

Qt | | | | | |
Automotive | | | | | |
Suite | | X | | | |
Deployment | | | | | |
Server | | | | | |

Qt Design | | X | | | |
Studio | | | | | |

Qt 3D Studio| | X | | | |

GammaRay
| | X | | | X |

Platform | | | | | |
adaptations | | | | | |
for | | | | | X
specified | | | | | |
Deployment | | | | | |
Platforms | | | | | |

Qt for | | | | | |
Device | | X | | | |
Creation | | | | | |

All
the above Redistributables are subject to applicable provisions and limitations including but not limited to what is defined in section 3 of the Agreement.

APPENDIX 4: SMALL BUSINESS AND STARTUP

The provisions of this Appendix 4 are applicable for Start-up Companies and for the Evaluation Term.For the purpose of this Appendix 4, the following additional definitions shall be applicable:

"Trial Term" shall mean a period of twelve (12) months.

"Start-up Company" means a company with a maximum annual revenue, including funding, equivalent to 100,000 USD (in applicable currency) during a respective calendar year, as evidenced by duly audited records of the Licensee and approved by The Qt Company.

During the Trial Term, Section 3 shall apply with following modifications ("Trial Term Modifications"):

(i) Licenses granted under Sections 3.1 and 3.2 shall be free of any charge. For clarity, License for distribution of Devices pursuant to Section 3.3 is subject to applicable License Fee for necessary Distribution Licenses;

(ii) Development License under Section 3.1 is limited to a maximum of three (3) Designated Users; and

(iii) Support is available subject to availability, as judged by The Qt Company at its free and absolute discretion, provided that support will be limited to a maximum of ten (10) tickets during the Trial Term.

Upon expiry of the Trial Term:

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APPENDIX 5: NON-COMMERCIAL USE

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"Term" shall mean a period of twelve (12) months or any such other period as may be agreed between the Parties.

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"Party" or "Parties" shall mean Licensee and/or The Qt Company.

"Permitted Combination" shall have the meaning as set forth in Section 3.4(viii).

"Pre-Release Code" shall have the meaning as set forth in Section 4.

"Prohibited Combination" shall mean any means to (i) use, combine, incorporate, link or integrate Licensed Software with any software created with or incorporating Open Source Qt, (ii) use Licensed Software for creation of any software created with or incorporating Open Source Qt, or (iii) incorporate or integrate Applications into a hardware device or product other than a Device.

"Qt 3D Studio" shall mean The Qt Company's productized offering, which consist of all versions of modules and tools as set forth in Appendix 1.

"Qt Design Studio" shall mean The Qt Company's productized offering, which consist of all versions of modules and tools as set forth in Appendix 1.

"Qt for Application Development" shall mean The Qt Company's productized offering, which consist of all versions of modules and tools as set forth in Appendix 1.

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"Qt for MCUs" shall mean The Qt Company's productized offering, which consist of all versions of modules and tools as set forth in Appendix 1.

"Redistributables" shall mean the portions of the Licensed Software set forth in Appendix 1 that may be distributed pursuant to the terms of this Agreement in object code form only, including any relevant documentation. Where relevant, any reference to Licensed Software in this Agreement shall include and refer also to Redistributables.

"Renewal Term" shall mean an extension of previous License Term as agreed between the Parties.

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"Support" shall mean standard developer support that is provided by The Qt Company to assist Designated Users in using the Licensed Software in accordance with The Qt Company's standard support terms available at https://www.qt.io/terms-conditions/ and as further defined in Section 8 hereunder.

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"Term" shall have the meaning set forth in Section 12.

"The Qt Company" shall mean:

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"Updates" shall mean a release or version of the Licensed Software containing bug fixes, error corrections and other changes that are generally made available to users of the Licensed Software that have contracted for Support. Updates are generally depicted as a change to the digits following the decimal in the Licensed Software version number. The Qt Company shall make Updates available to the Licensee under the Support. Updates shall be considered as part of the Licensed Software hereunder.

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Upon expiry of the initially agreed License Term, the respective License Terms shall be automatically extended to one or more Renewal Term(s), unless and until either Party notifies the other Party in writing that it does not wish to continue the License Term, such notification to be provided to the other Party no less than ninety (90) days before expiry of the respective License Term. Unless otherwise agreed between the Parties, Renewal Term shall be of equal length with the initial License Term.

Any such Renewal Term shall be subject to License Fees agreed between the Parties or, if no advance agreement exists, subject to The Qt Company's standard pricing applicable at the commencement date of any such Renewal Term.

Any price or other term specified for a Renewal Term shall be valid only for the specified time.

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In the event Licensee does not prevent auto-renewal pursuant the above, but a Renewal Term is nevertheless not duly ordered within 30 days from the date of the respective quote from The Qt Company and/or the respective License Fee paid by due date specified in The Qt Company's respective invoice, The Qt Company shall apply a reinstatement fee equal to ten percent (10 %) of the total value of the License Fees of the Development Licenses for the expired term to be added to the License Fee of the respective Renewal Term.

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THE

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Upon due payment of the agreed License Fees the Licensee will be eligible to receive Support and Updates and to use the Online Services during the License Term, provided, however, that in the event the License Term is longer than 36 months, the initial payment includes Support for only the first 12 months, unless the Parties specifically otherwise agree.

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Unless otherwise agreed, The Qt Company shall not be responsible for providing any service or support to Customers.

9. CONFIDENTIALITY

Each Party acknowledges that during the Term of this Agreement each Party may receive information about the other Party's business, business methods, business plans, customers, business relations, technology, and other information, including the terms of this Agreement, that is confidential and of great value to the other Party, and the value of which would be significantly reduced if disclosed to third parties ("Confidential Information"). Accordingly, when a Party (the "Receiving Party") receives Confidential Information from the other Party (the "Disclosing Party"), the Receiving Party shall only disclose such information to employees and Contractors on a need to know basis, and shall cause its employees and employees of its Affiliates to: (i) maintain any and all Confidential Information in confidence; (ii) not disclose the Confidential Information to a third party without the Disclosing Party's prior written approval; and (iii) not, directly or indirectly, use the Confidential Information for any purpose other than for exercising its rights and fulfilling its responsibilities pursuant to this Agreement. Each Party shall take reasonable measures to protect the Confidential Information of the other Party, which measures shall not be less than the measures taken by such Party to protect its own confidential and proprietary information.

Obligation of confidentiality shall not apply to information that (i) is or becomes generally known to the public through no act or omission of the Receiving Party; (ii) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (iii) is developed independently by employees or Contractors of the Receiving Party or other persons working for the Receiving Party who have not had access to the Confidential Information of the Disclosing Party, as proven by the written records of the Receiving Party; (iv) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (v) the Receiving Party is legally compelled to disclose, in which case the Receiving Party shall notify the Disclosing Party of such compelled disclosure and assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to limit the scope of disclosure and the dissemination of disclosed Confidential Information to the minimum extent necessary.

The obligations under this Section 9 shall continue to remain in force for a period of five (5) years after the last disclosure, and, with respect to trade secrets, for so long as such trade secrets are protected under applicable trade secret laws.

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License Fees are described in The Qt Company's standard price list, quote or Purchase Order confirmation or in an appendix hereto, as the case may be.

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Licensee shall submit all purchase orders for Development Licenses and Distribution Licenses to The Qt Company by email or any other method acceptable to The Qt Company (each such order is referred to herein as a "Purchase Order") for confirmation, whereupon the Purchase Order shall become binding between the Parties.

10.3. Distribution License Packs

Unless otherwise agreed, Distribution Licenses shall be purchased by way of

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License Fees and any other charges under this Agreement shall be paid by Licensee no later than thirty (30) days from the date of the applicable invoice from The Qt Company.

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Licensee shall, within thirty (30) days from receiving The Qt Company's request to that effect, deliver to The Qt Company a report based on Licensee's Records, such report to contain information, in sufficient detail, on (i) number and identity of users working with Licensed Software or Open Source Qt, (ii) copies of Redistributables distributed by Licensee during the most recent calendar

quarter and/or any other term specified by The Qt Company, (iii) number of undistributed copies of Redistributables and corresponding number of unused Distribution Licenses remaining on Licensee's account, and (iv) any other information as The Qt Company may reasonably require from time to time.

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The Qt Company or an independent auditor acting on behalf of The Qt Company's, may, upon at least five (5) business days' prior written notice and at its expense, audit Licensee with respect to the Licensee's use of the Licensed Software, but not more frequently than once during each 6-month period. Such audit may be conducted by mail, electronic means or through an in-person visit to Licensee's place of business. Any such in-person audit shall be conducted during regular business hours at Licensee's facilities and shall not unreasonably interfere with Licensee's business activities. The Qt Company or the independent auditor acting on behalf of The Qt Company shall be entitled to inspect Licensee's Records and conduct necessary interviews of Licensee's relevant employees and Contractors. All such Licensee's Records and use thereof shall be subject to an obligation of confidentiality under this Agreement.

If an audit reveals that Licensee is using the Licensed Software beyond scope of the licenses Licensee has paid for, Licensee agrees to pay The Qt Company any amounts owed for such unauthorized use within 30 days from receipt of the corresponding invoice from The Qt Company. In addition, in the event the audit reveals a material violation of the terms of this Agreement (without limitation, either (i) underpayment of more than 10 % of License Fees or 10,000 euros (whichever is more) or (ii) distribution of products, which include or result from Prohibited Combination, shall be deemed a material violation for purposes of this section), then the Licensee shall pay The Qt Company's reasonable cost of conducting such audit.

12. TERM AND TERMINATION

12.1. Agreement Term

This Agreement shall enter into force upon due acceptance by both Parties and remain in force for as long as there is any Development License(s) purchased under this Agreement in force ("Term"), unless and until terminated pursuant to the terms of this Section 12.

12.2. Termination and suspension of rights

Either Party shall have the right to terminate this Agreement upon thirty (30) days prior written notice if the other Party commits a material breach of any obligation of this Agreement and fails to remedy such breach within such notice period.

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not limited to the Development Licenses, Distribution License, and Support, should Licensee fail to make payment in timely fashion or otherwise violates or is reasonably suspected to violate its obligations or terms of this Agreement, and where such violation or breach is not cured within five (5) business days following The Qt Company's written notice thereof.

12.3. Mutual Right to Terminate
Either Party shall have the right to terminate this Agreement immediately upon written notice in the event that the other Party becomes insolvent, files for any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed over the whole or a substantial part of its assets, ceases to conduct business, or an act equivalent to any of the above occurs under the laws of the jurisdiction of the other Party.

12.4. Parties Rights and Duties upon Termination
Upon expiry or termination of the Agreement, Licensee shall cease and shall cause all Designated Users (including those of its Affiliates' and Contractors') to cease using the Licensed Software and distribution of the Redistributables under this Agreement.

Notwithstanding the above, in the event the Agreement expires or is terminated:

(i) as a result of The Qt Company choosing not to renew the Development License(s) as set forth in Section 3.1, then all valid licenses possessed by the Licensee at such date shall be extended to be valid in perpetuity under the terms of this Agreement and Licensee is entitled to purchase additional licenses as set forth in Section 10.2; or

(ii) for reason other than by The Qt Company pursuant to item (i) above or pursuant to Section 12.2, then the Licensee is entitled, for a period of six (6) months after the effective date of termination, to continue distribution of Devices under the Distribution Licenses paid but unused at such effective date of termination.

Upon any such termination the Licensee shall destroy or return to The Qt Company all copies of the Licensed Software and all related materials and will certify the same to The Qt Company upon its request, provided however that Licensee may retain and exploit such copies of the Licensed Software as it may reasonably require in providing continued support to Customers.

Expiry or termination of this Agreement for any reason whatsoever shall not relieve Licensee of its obligation to pay any License Fees accrued or payable to The Qt Company prior to the effective date of termination, and Licensee shall immediately pay to The Qt Company all such fees upon the effective date of termination. Termination of this Agreement shall not affect any rights of

Customers to continue use of Applications and Devices (and therein incorporated Redistributables).

12.5. Extension in case of bankruptcy
In the event The Qt Company is declared bankrupt under a final, non-cancellable decision by relevant court of law, and this Agreement is not, at the date of expiry of the Development License(s) pursuant to Section 3.1, assigned to party, who has assumed The Qt Company's position as a legitimate licensor of Licensed Software under this Agreement, then all valid licenses possessed by the Licensee at such date of expiry, and which the Licensee has not notified for expiry, shall be extended to be valid in perpetuity under the terms of this Agreement.

13. GOVERNING LAW AND LEGAL VENUE
In
the event this Agreement is in the name of The Qt Company Inc., a Delaware Corporation, then:

(i) this Agreement shall be construed and interpreted in accordance with the laws of the State of California, USA, excluding its choice of law provisions;
(ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and
(iii) any dispute, claim or controversy arising out of or relating to this Agreement or the breach, termination, enforcement, interpretation or validity thereof, including the determination of the scope or applicability of this Agreement to arbitrate, shall be determined by arbitration in San Francisco, USA, before one arbitrator. The arbitration shall be administered by JAMS pursuant to JAMS' Streamlined Arbitration Rules and Procedures. Judgment on the Award may be entered in any
court having jurisdiction. This
Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

In the event this Agreement is in the name of The Qt Company Ltd., a Finnish Company, then:

(i) this Agreement shall be construed and interpreted in accordance with the laws of Finland, excluding its choice of law provisions;
(ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and
(iii) any disputes, controversy or claim arising out of or relating to this Agreement, or the breach, termination or validity thereof shall be finally settled by arbitration in accordance with the Arbitration Rules of Finland Chamber of Commerce. The arbitration tribunal shall consist of one (1), or if either Party so requires, of three (3),

arbitrators. The award shall be final and binding and enforceable in any court of competent jurisdiction. The arbitration shall be held in Helsinki, Finland and the process shall be conducted in the English language. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

14. GENERAL PROVISIONS

14.1. No Assignment

Except in the case of a merger or sale of substantially all of its corporate assets, Licensee shall not be entitled to assign or transfer all or any of its rights, benefits and obligations under this Agreement without the prior written consent of The Qt Company, which shall not be unreasonably withheld or delayed. The Qt Company shall be entitled to freely assign or transfer any of its rights, benefits or obligations under this Agreement.

14.2. No Third-Party Representations

Licensee shall make no representations or warranties concerning the Licensed Software on behalf of The Qt Company. Any representation or warranty Licensee makes or purports to make on The Qt Company's behalf shall be void as to The Qt Company.

14.3. Surviving Sections

Any terms and conditions that by their nature or otherwise reasonably should survive termination of this Agreement shall so be deemed to survive. Such sections include especially the following: 1, 2, 6, 7, 9, 11, 12.4, 13 and 14.

14.4. Entire Agreement

This Agreement, the exhibits hereto, the License Certificate and any applicable Purchase Order accepted by The Qt Company constitute the complete agreement between the Parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein.

In the event of any conflict or inconsistency between this Agreement and any Purchase Order, the terms of this Agreement will prevail over the terms of the Purchase Order with respect to such conflict or inconsistency.

Parties specifically acknowledge and agree that this Agreement prevails over any click-to-accept or similar agreements the Designated Users may need to accept online upon download of the Licensed Software, as may be required by The Qt Company's applicable processes relating to Licensed Software.

14.5. Modifications

No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each Party. No term or

condition contained in Licensee's Purchase Order ("Deviating Terms") shall apply unless The Qt Company has expressly agreed such Deviating Terms in writing. Unless and to the extent expressly agreed by The Qt Company, any such Deviating Terms shall be deemed void and with no legal effect. For clarity, delivery of the Licensed Software following the receipt of the Purchase Order including Deviating Terms shall not constitute acceptance of such Deviating Terms."

14.6. Force Majeure

Except for the payment obligations hereunder, neither Party shall be liable to the other for any delay or non-performance of its obligations hereunder in the event and to the extent that such delay or non-performance is due to an event of act of God, terrorist attack or other similar unforeseeable catastrophic event that prevents either Party for fulfilling its obligations under this Agreement and which such Party cannot avoid or circumvent ("Force Majeure Event"). If the Force Majeure Event results in a delay or non-performance of a Party for a period of three (3) months or longer, then either Party shall have the right to terminate this Agreement with immediate effect without any liability (except for the obligations of payment arising prior to the event of Force Majeure) towards the other Party.

14.7. Notices

Any notice given by one Party to the other shall be deemed properly given and deemed received if specifically acknowledged by the receiving Party in writing or when successfully delivered to the recipient by hand, fax, or special courier during normal business hours on a business day to the addresses specified for each Party on the signature page. Each communication and document made or delivered by one Party to the other Party pursuant to this Agreement shall be in the English language.

14.8. Export Control

Licensee acknowledges that the Redistributables, as incorporated in Applications or Devices, may be subject to export control restrictions under the applicable laws of respective countries. Licensee shall fully comply with all applicable export license restrictions and requirements as well as with all laws and regulations relating to the Redistributables and exercise of licenses hereunder and shall procure all necessary governmental authorizations, including without limitation, all necessary licenses, approvals, permissions or consents, where necessary for the re-exportation of the Redistributables, Applications and/or Devices.

14.9. No Implied License

There are no implied licenses or other implied rights granted under this Agreement, and all rights, save for those expressly granted hereunder, shall remain with The Qt Company and its licensors. In addition, no licenses or

immunities are granted to the combination of the Licensed Software with any other software or hardware not delivered by The Qt Company under this Agreement.

14.10. Attorney Fees
The prevailing Party in any action to enforce this Agreement shall be entitled to recover its attorney's fees and costs in connection with such action.

14.11. Privacy
Licensee acknowledges and agrees that for the purpose of this Agreement, The Qt Company may collect, use, transfer and disclose personal data pertaining to Designated Users as well as any other employees and directors of the Licensee and its Contractors relevant for carrying out the intent of this Agreement. Such personal data may be collected from the Licensee or directly from the relevant individuals. The Parties acknowledge that with regard to such personal
data processed hereunder, The Qt Company shall be regarded as the Data Controller under the applicable Data Protection Legislation. The Qt Company shall process any such personal data in accordance with its privacy policies and practices, which will comply with all applicable requirements of the Data Protection Legislation.

14.12. Severability
If any provision of this Agreement shall be adjudged by any court of competent jurisdiction to be unenforceable or invalid, that provision shall be limited or eliminated to the minimum extent necessary so that this Agreement shall otherwise remain in full force and effect and enforceable.

APPENDICES
The Agreement includes Appendix 1, and possibly one or more of the appendices 3-5, depending on the product(s) purchased by the Licensee, what is stated in the quote or invoice, and/or what is stated in the Licensee's License Certificate.

APPENDIX 1
The modules and/or tools that are included in the respective product - Qt for Application
Development (QtAD), Qt for Device Creation (QtDC), Qt for MCUs (QtMCU), Qt 3D Studio (Qt3DS) and Qt Design Studio (QtDS) - are marked with 'X' in the below table.

Parts of the product that are permitted for distribution in object-code form only ("Redistributables") are marked with 'R' in the below table.

Modules/Tools	QtAD	QtDC	QtMCU	Qt3DS	QtDS

Qt Core	X,R	X,R		
Qt GUI	X,R	X,R		
Qt Multimedia	X,R	X,R		
Qt Multimedia Widgets	X,R	X,R		
Qt Network	X,R	X,R		
Qt QML	X,R	X,R		
Qt Quick	X,R	X,R		
Qt Quick Controls 2	X,R	X,R		
Qt Quick Dialogs	X,R	X,R		
Qt Quick Layouts	X,R	X,R		
Qt Quick Test	X,R	X,R		
Qt SQL	X,R	X,R		
Qt Test	X,R	X,R		
Qt Widgets	X,R	X,R		
Active Qt	X,R	X,R		
Qt 3D	X,R	X,R		
Qt Android Extras	X,R	X,R		
Qt Bluetooth	X,R	X,R		
Qt Canvas 3D	X,R	X,R		
Qt Concurrent	X,R	X,R		
Qt D-Bus	X,R	X,R		
Qt Gamepad	X,R	X,R		
Qt Graphical Effects	X,R	X,R		

Qt Help
| X,R | X,R | | |

Qt Image Formats | X,R | X,R | | |

Qt Location | X,R | X,R | | |

Qt Mac Extras | X,R | X,R | | |

Qt Network Authorization | X,R | X,R | | |

Qt NFC | X,R | X,R | | |

Qt Platform Headers | X,R | X,R | | |

Qt
Positioning | X,R | X,R | | |

Qt Print Support | X,R | X,R | | |

Qt Purchasing | X,R | X,R | | |

Qt for Python | X,R | X,R | | |

Qt Quick Controls | X,R | X,R | | |

Qt Quick Extras | X,R | X,R | | |

Qt Quick Widgets
| X,R | X,R | | |

Qt SCXML | X,R | X,R | | |

Qt Sensors | X,R | X,R | | |

Qt Serial Bus | X,R | X,R | | |

Qt Serial Port | X,R | X,R | | |

Qt Speech | X,R | X,R | | |

Qt SVG | X,R | X,R | | |

Qt
UI Tools | X,R | X,R | | |

Qt WebChannel | X,R | X,R | | |

Qt WebEngine | X,R | X,R | | |

Qt WebSockets | X,R | X,R | | |

Qt WebView | X,R | X,R | | |

Qt Windows Extras | X,R | X,R | | |

Qt X11 Extras
| X,R | X,R | | |

Qt XML | X,R | X,R | | |

Qt XML Patterns | X,R | X,R | | |

Qt Wayland Compositor | X,R | X,R | | |

Qt Charts | X,R | X,R | | |

Qt Data Visualization | X,R | X,R | | |

Qt Virtual Keyboard | X,R | X,R | | |

Boot
2 Qt stack | | X,R | | |

Qt OTA | | X,R | | |

Device Utilities | | X,R | | |

Qt Debugging Bridge (QDB) Daemon | | X,R | | |

Qt Quick Ultralite Controls | | | X,R | |

Qt Quick Ultralite | | | X,R | |

Qt Creator |
X | X | X | |

Qt Designer (Qt Widget Designer) | X | X | | |

Qt Quick Designer (Qt Creator plugin) | X | X | X | |

Qt Linguist | X | X | X | |

Qt Assistant | X | X | X | |

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lupdate	X	X	X	
lrelease	X	X	X	
qmake	X	X		
uic	X	X		
rcc	X	X		
qlalr	X	X		
qdoc	X	X		
qmlscene	X	X		
qmlviewer	X	X		
Target toolchains		X	X	
Qt Debugging Bridge (QDB) Host Tools		X		
qtconfig-gui		X		
Qt Emulator		X		
qmlinterfacegenerator			X	
qmltocpp			X	
qulfontcompiler			X	
Qt53DStudioRuntime2				X,R
Qt 3D Studio				X
Qt Design Studio				X

APPENDIX 3: ADDITIONS TO LICENSED SOFTWARE

In addition to what is provided under the definition of the Licensed Software, Parties agree that Licensed Software shall also include the Add-On Products of The Qt Company, as mentioned in this Appendix, if included in the quote / invoice.

The Modules and/or Tools of the Licensed Software that are included with each Add-On Product respectively are marked with 'X' in the below table. Parts of the respective Add-On Product that are permitted for distribution in object-code form only ("Redistributables") are marked with 'R' in the below table.

Modules / Tools of Licensed Software	Add-On Product(s)					
	Qt for Automation Suite	Qt Automotive	Qt Safe Renderer Manager	Qt Application Manager	Qt Gammaray	Qt Deployment Platform Package
Qt MQTT	X,R					
Qt KNX	X,R					
Qt OPC UA	X,R					
Qt CoAP	X,R					
Qt Safe Renderer		X,R	X,R			
Qt Application Manager		X,R		X,R		
Qt IVI		X,R				
Reference UI		X,R				
Qt GENIVI Extras		X,R				
QML Live		X				
Qt Creator Deployment		X				
Qt Creator Plugin for Qt						

	X		X		
Application Manager					
Qt Automotive Suite			X		
Deployment Server					
Qt Design Studio			X		
Qt 3D Studio			X		
GammaRay		X			X
Platform adaptations for specified Deployment Platforms					X
Qt for Device Creation			X		

All
the above Redistributables are subject to applicable provisions and limitations including but not limited to what is defined in section 3 of the Agreement.

APPENDIX 4: SMALL BUSINESS AND STARTUP

The provisions of this Appendix 4 are applicable for Start-up Companies and for the Evaluation Term.For the purpose of this Appendix 4, the following additional definitions shall be applicable:

"Trial Term" shall mean a period of twelve (12) months.

"Start-up Company" means a company with a maximum annual revenue, including funding, equivalent to 100,000 USD (in applicable currency) during a respective calendar year, as evidenced by duly audited records of the Licensee and approved by The Qt Company.

During the Trial Term, Section 3 shall apply with following modifications ("Trial Term Modifications"):

(i) Licenses granted under Sections 3.1 and 3.2 shall be free of any charge. For clarity, License for distribution of Devices pursuant to Section 3.3 is subject to applicable License Fee for necessary Distribution Licenses;

(ii) Development License under Section 3.1 is limited to a maximum of three (3) Designated Users; and

(iii) Support is available subject to availability, as judged by The Qt Company at its free and absolute discretion, provided that support will be limited to a maximum of ten (10) tickets during the Trial Term.

Upon expiry of the Trial Term:

(a) This Appendix 4 is terminated, Trial Term Modifications cease to remain in force, Licensee's Development Licenses shall be automatically converted into licenses subject to a License Fee (in the amount specified in the quote or in Appendix 2 and payable with a 30-day payment term) and Licensee's rights and obligations under this Agreement shall continue to remain in force under the standard provisions of the Agreement, unless the Licensee notifies The Qt Company in writing no less than ninety (90) days before such expiry date that Licensee does not agree to such continuance, in which event the Agreement, and all rights of the Licensee thereunder, shall expire; provided however that

(b) in the event the Licensee still qualifies as a Start-up Company, the Licensee has an option ("Option"), instead of what is stated in item a) above, to renew the Trial Term. Renewal is limited to one time, and the total duration of Trial Term is thus 24 months after the effective date. Licensee shall notify The Qt Company in writing, no less than ninety (90) days before the expiry date, if Licensee wish to exercise the Option.

APPENDIX 5: NON-COMMERCIAL USE

The provisions of this Appendix 5 are applicable for non-commercial use of the Licensed Software by the Licensee.

For the purpose of this Appendix 5, the following additional definitions (replacing the relevant definition of the Agreement, where applicable) shall be applicable:

"Demo Units" shall mean (i) hardware development platform, which incorporates the Licensed Software along with Licensee's software and/or hardware, and (ii) prototype versions of Applications or Devices.

"Designated User(s)" shall mean the employees and students of the Licensee.

"Licensee Products" shall mean Applications and/or Devices.

"Permitted Purpose" shall mean (i) Licensee's internal evaluation and testing of Licensed Software, (ii) building Demo Units as well as (iii) educational use.

"Term" shall mean a period of twelve (12) months or any such other period as may be agreed between the Parties.

For the purpose of this Appendix 5, the following changes shall be agreed with respect to relevant Sections of the Agreement:

I. Recital (A) shall be replaced in its entirety to read as follows:

"(A) Licensee wishes to use the Licensed Software for the Permitted Purpose."

II. Section 3.1 shall be replaced in its entirety to read as follows:

"The Qt Company grants to Licensee a personal, non-exclusive, non-transferable, revocable, royalty-free license, valid for the Term, to use, modify and copy the Licensed Software solely for the Permitted Purpose.

Licensee may install copies of the Licensed Software on an unlimited number of computers provided that only Designated Users may use the Licensed Software.

Licensee may demonstrate the Demo Units, provided that such demonstrations must be conducted by Licensee, and the Demo Units must remain in Licensee's possession and under Licensee's control at all times.

For clarity, this Agreement does not (i) entitle Licensee to use Licensed Software to create Applications or Devices (other than prototypes thereof) or (ii) carry any distribution rights to Licensee, but such rights are subject to and conditional upon conclusion of a separate license agreement with The Qt Company."

III. Sections 3.2, 3.3, 8 and 10 shall be deleted.

IV. Section 3.4 shall be replaced in its entirety to read as follows:

"Licensee shall not:

- remove or alter any copyright, trademark or other proprietary rights notice contained in any portion of the Licensed Software;

- transfer, publish, sublicense, disclose, display or otherwise make the Licensed Software available to any third party (except that Licensee may demonstrate the Demo Units pursuant to Section 3.1);

- in any way combine, incorporate or integrate Licensed Software with, or use Licensed Software for creation of, any software created with or incorporating Open Source Qt;

Licensee shall cause all Designated Users who make use of the licenses granted under this Agreement, to be contractually bound to comply with the relevant terms of this Agreement and not to use the Licensed Software beyond the terms hereof. Licensee shall be responsible for any and all actions and omissions of its Designated Users relating to the Licensed Software and use thereof.

Any use of Licensed Software beyond the provisions of this Agreement is strictly prohibited and requires an additional license from The Qt Company."

V. Section 12 shall be replaced in its entirety to read as follows:

"This Agreement shall enter into force upon due acceptance by both Parties and remain in force for the Term, unless and until terminated pursuant to the terms of Section 12.

Upon termination of the Agreement, Licensee shall cease using the Licensed Software. All other copies of Licensed Software in the possession or control of Licensee must be erased or destroyed. An officer of Licensee must, upon request, promptly deliver to The Qt Company a written confirmation that this has occurred."

Except for the modifications specified above, this Appendix carries no change to the terms of the Agreement which shall remain in full force.

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Version 2, June 1991

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Preamble

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When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

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For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

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Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any

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Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether
that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files
and the date of any change.

b) You must cause any work that you distribute or publish, that in

whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete

machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

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6. Each time you redistribute the Program (or any work based on the

Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

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1.1271 commons-cli 1.5.0

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1.1273 jboss-logging 3.4.3.Final

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* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-
jar/org/jboss/jandex/UnsupportedVersion.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-
jar/org/jboss/jandex/AnnotationTarget.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/NameTable.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/JarIndexer.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-
jar/org/jboss/jandex/AnnotationValue.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/IndexView.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-
jar/org/jboss/jandex/AnnotationInstance.java
*
 /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-
jar/org/jboss/jandex/CompositeIndex.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/Main.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/Result.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/IndexWriter.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-
jar/org/jboss/jandex/JandexAntTask.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/ClassInfo.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-
jar/org/jboss/jandex/IndexReader.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-
jar/org/jboss/jandex/IndexReaderV1.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/ClassType.java
*
 /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-
jar/org/jboss/jandex/PackedDataOutputStream.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/Index.java
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* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-

jar/org/jboss/jandex/IndexWriterV1.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/PackedDataInputStream.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/PrimitiveType.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/StrongInternPool.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/Indexer.java

1.1275 rfc3986 2.0.0

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1.1276 mitchellh-mapstructure 1.4.3

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1.1277 cglib-nodep 3.2.5

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1.1278 jakarta-inject-api 2.0.1

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1.1279 kubernetes-klog 2.30.0

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1.1291 github.com/ua-parser/uap-go 0.0.0-20211112212520-00c877edfe0f

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1.1293 classgraph 4.8.138

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* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/reflection/StandardReflectionDriver.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/CloseableByteBuffer.java

* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/reflection/NarcissusReflectionDriver.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/classloaderhandler/CxfContainerClassLoaderHandler.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/reflection/ReflectionDriver.java
*
 /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/reflection/JVMDriverReflectionDriver.java
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* This file is part of ClassGraph.
*
* Author: Luke Hutchison
*
* Hosted at: https://github.com/classgraph/classgraph
*
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* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/classloaderhandler/WeblogicClassLoaderHandler.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-

jar/nonapi/io/github/classgraph/classloaderhandler/JPMSClassLoaderHandler.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-
jar/nonapi/io/github/classgraph/classloaderhandler/ClassGraphClassLoaderHandler.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-
jar/nonapi/io/github/classgraph/utils/JarUtils.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-
jar/io/github/classgraph/TypeParameter.java
*
/opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-
jar/nonapi/io/github/classgraph/json/ClassFields.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-
jar/nonapi/io/github/classgraph/fastzipfilereader/FastZipEntry.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-
jar/nonapi/io/github/classgraph/scanspec/AcceptReject.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-
jar/nonapi/io/github/classgraph/classpath/ClasspathFinder.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-
jar/io/github/classgraph/MappableInfoList.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-
jar/nonapi/io/github/classgraph/classpath/CallStackReader.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-
jar/nonapi/io/github/classgraph/classloaderhandler/PlexusClassWorldsClassRealmClassLoaderHandler.java
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/opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-
jar/nonapi/io/github/classgraph/classloaderhandler/UnoOneJarClassLoaderHandler.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-
jar/io/github/classgraph/ReferenceTypeSignature.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-
jar/nonapi/io/github/classgraph/json/ReferenceEqualityKey.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-
jar/io/github/classgraph/ModuleRef.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-
jar/nonapi/io/github/classgraph/recycler/Resettable.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-
jar/io/github/classgraph/PackageInfo.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-
jar/io/github/classgraph/AnnotationParameterValue.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-
jar/nonapi/io/github/classgraph/classpath/ClassLoaderOrder.java
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/opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-
jar/nonapi/io/github/classgraph/utils/LogNode.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-
jar/nonapi/io/github/classgraph/types/ParseException.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-
jar/nonapi/io/github/classgraph/json/JSONParser.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-
jar/nonapi/io/github/classgraph/classloaderhandler/EquinoxContextFinderClassLoaderHandler.java

* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/classloaderhandler/ParentLastDelegationOrderTestClassLoaderHandler.java
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* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/ScanResult.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/ArrayTypeSignature.java
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* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/classpath/ModuleFinder.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/GraphvizDotfileGenerator.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/json/JSONReference.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/MethodTypeSignature.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/Scanner.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/PackageInfoList.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/HierarchicalTypeSignature.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/Resource.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/concurrency/SingletonMap.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/ModuleReaderProxy.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/AnnotationClassRef.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/classloaderhandler/ClassLoaderHandler.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/ClassGraph.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/classloaderhandler/TomcatWebappClassLoaderBaseHandler.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/Classfile.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/TypeArgument.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/fastzipfilereader/LogicalZipFile.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/json/JSONDeserializer.java

* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/ClasspathElementFileDir.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/ClassInfoList.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/ClasspathElementModule.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/json/JSONSerializer.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/json/ParameterizedTypeImpl.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/recycler/RecycleOnClose.java
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* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/ClasspathElement.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/MethodInfo.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/ClassGraphException.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/ScanResultObject.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/TypeSignature.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/classloaderhandler/URLClassLoaderHandler.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/ModuleInfoList.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/classloaderhandler/ClassLoaderHandlerRegistry.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/json/JSONObject.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/PotentiallyUnmodifiableList.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/classloaderhandler/OSGiDefaultClassLoaderHandler.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/fastzipfilereader/PhysicalZipFile.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/reflection/ReflectionUtils.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-

jar/nonapi/io/github/classgraph/json/FieldTypeInfo.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/utils/ProxyingInputStream.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/json/Id.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/BaseTypeSignature.java
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* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/ClassRefTypeSignature.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/ClassRefOrTypeVariableSignature.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/classloaderhandler/EquinoxClassLoaderHandler.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/utils/CollectionUtils.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/fastzipfilereader/NestedJarHandler.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/classpath/SystemJarFinder.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/utils/FileUtils.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/json/JSONUtils.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/concurrency/WorkQueue.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/json/JSONArray.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/ModulePathInfo.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/utils/FastPathResolver.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/types/TypeUtils.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/AnnotationParameterValueList.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/ClassGraphClassLoader.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/classpath/ClassLoaderFinder.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/json/TypeResolutions.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/FieldInfo.java

* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/utils/VersionFinder.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/fastzipfilereader/ZipFileSlice.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/utils/StringUtils.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/MethodParameterInfo.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/utils/URLPathEncoder.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/ClasspathElementZip.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/InfoList.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/HasName.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/ObjectTypedValueWrapper.java
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* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/AnnotationInfoList.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/classpath/ClasspathOrder.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/ArrayClassInfo.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/AnnotationEnumValue.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/ClasspathElementPathDir.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/ClassInfo.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/AnnotationInfo.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/recycler/Recycler.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/classloaderhandler/FallbackClassLoaderHandler.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/TypeVariableSignature.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/ModuleInfo.java
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/*

* This file is part of ClassGraph.
*
* Author: Harith Elrufaie
*
* Hosted at: https://github.com/classgraph/classgraph
*
* --
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/*
* This file is part of ClassGraph.
*
* Author: R. Kempees

*
* With contributions from @cpierceworld (#414)
*
* Hosted at: https://github.com/classgraph/classgraph
*
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* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/classloaderhandler/WebsphereLibertyClassLoaderHandler.java
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*
* Author: @mcollovati
*
* Hosted at: https://github.com/classgraph/classgraph
*
* --
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*
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*
* Hosted at: https://github.com/classgraph/classgraph
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1.1294 swagger 2.1.12

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Manifest-Version: 1.0
Bundle-Description: swagger-core
Automatic-Module-Name: io.swagger.v3.core
Bundle-License: "Apache License 2.0";link="http://www.apache.org/licen
ses/LICENSE-2.0.html"
package: io.swagger
Bundle-SymbolicName: io.swagger.core.v3.swagger-core
implementation-version: 2.1.12
Bundle-ManifestVersion: 2
Bundle-DocURL: https://github.com/swagger-api/swagger-core/modules/swa
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Import-Package: javax.validation.constraints;version="[1.1,3)",com.fas
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Bundle-Developers:
 fehguy;email="fehguy@gmail.com";name="Tony Tam",web
ron;email="webron@gmail.com";name="Ron Ratovsky"
url: https://github.com/swagger-api/swagger-core/modules/swagger-core
mode: development
Export-Package: io.swagger.v3.core.converter;uses:="com.fasterxml.jack
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Bundle-Version: 2.1.12
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Build-Jdk-Spec: 1.8
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1.1295 ewma 1.2.0

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1.1296 archiver 3.5.0

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1.1297 sanitize 1.2.4

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1.1298 swagger-annotations 2.1.12

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* /opt/cola/permits/1265718028_1643926448.28/0/swagger-annotations-2-1-12-sources-jar/io/swagger/v3/oas/annotations/tags/Tags.java
* /opt/cola/permits/1265718028_1643926448.28/0/swagger-annotations-2-1-12-sources-jar/io/swagger/v3/oas/annotations/info/Info.java

* /opt/cola/permits/1265718028_1643926448.28/0/swagger-annotations-2-1-12-sources-jar/io/swagger/v3/oas/annotations/media/Schema.java
* /opt/cola/permits/1265718028_1643926448.28/0/swagger-annotations-2-1-12-sources-jar/io/swagger/v3/oas/annotations/media/DiscriminatorMapping.java
* /opt/cola/permits/1265718028_1643926448.28/0/swagger-annotations-2-1-12-sources-jar/io/swagger/v3/oas/annotations/headers/Header.java
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* /opt/cola/permits/1265718028_1643926448.28/0/swagger-annotations-2-1-12-sources-jar/io/swagger/v3/oas/annotations/callbacks/Callbacks.java

1.1299 swagger-models 2.1.12

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* /opt/cola/permits/1265718009_1643926442.79/0/swagger-models-2-1-12-sources-jar/io/swagger/v3/oas/models/callbacks/Callback.java
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* /opt/cola/permits/1265718009_1643926442.79/0/swagger-models-2-1-12-sources-jar/io/swagger/v3/oas/models/parameters/QueryParameter.java
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jar/io/swagger/v3/oas/models/security/Scopes.java
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* /opt/cola/permits/1265718009_1643926442.79/0/swagger-models-2-1-12-sources-jar/io/swagger/v3/oas/models/servers/Server.java

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1.1302 github.com/grantae/certinfo 0.0.0-20170412194111-59d56a35515b

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1.1303 github.com/dchest/bcrypt_pbkdf 0.0.0-20150205184540-83f37f9c154a

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1.1305 github.com/scaleft/sshkeys 0.0.0-20181112160850-82451a803681

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1.1306 github.com/gorilla/css 1.0.0

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1.1307 github.com/aymerick/douceur 0.2.0

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1.1308 github.com/karrick/tparse 2.4.2+incompatible

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1.1310 github.com/didip/tollbooth 4.0.2+incompatible

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1.1311 viper 1.10.1

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1.1313 postcss-js 4.0.0

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1.1314 @types/bonjour 3.5.10

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1.1315 webpack-manifest-plugin 4.1.1

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1.1327 @types/connect-history-api-fallback 1.3.5

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1.1340 postcss-media-minmax 5.0.0

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1.1341 pretty-error 4.0.0

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1.1342 @types/serve-index 1.9.1

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1.1343 @surma/rollup-plugin-off-main-thread 2.2.3

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1.1344 rollup-plugin-terser 7.0.2

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1.1345 eslint-plugin-flowtype 8.0.3

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1.1346 ipaddr.js 2.0.1

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1.1347 camelcase-css 2.0.1

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1.1348 @types/html-minifier-terser 6.1.0

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1.1349 vixie-cron 3.0pl1-137

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Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: vixie-cron
Upstream-Contact: Paul Vixie <paul@vix.com>
Source:
The original source for this package could be obtained from
ftp://ftp.vix.com/pub/vixie/cron-3.0, although that link appears to have gone
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Files: *
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1.1350 cron 3.0pl1-137

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 *
*/
```

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* /opt/cola/permits/1267564117_1644318672.16/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/popen.c
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*
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* Paul Vixie          <paul@vix.com>          uunet!decwrl!vixie!paul
*/
```

Found in path(s):
* /opt/cola/permits/1267564117_1644318672.16/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/pathnames.h
* /opt/cola/permits/1267564117_1644318672.16/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/externs.h
*
 /opt/cola/permits/1267564117_1644318672.16/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/compat.h
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*
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* I'll try to keep a version up to date.  I can be reached as follows:
* Paul Vixie          <paul@vix.com>          uunet!decwrl!vixie!paul
*/
```

$Id: INSTALL,v 2.5 1994/01/15 20:43:43 vixie Exp $

Read the comments at the top of the Makefile, then edit the area marked
'configurable

stuff'.

Edit config.h. The stuff I expect you to change is down a bit from the top of the file, but it's clearly marked. Also look at pathnames.h.

You don't have to create the /var/cron or /var/cron/tabs directories, since both the daemon and the `crontab' program will do this the first time they run if they don't exist. You do need to have a /var, though -- just "mkdir /var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var" if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you change the Makefile. These will have to be created by hand, but if you are a long-time Usenet user you probably have them already. /usr/local/man is where I keep my man pages, but I have the source for `man' and you probably do not. Therefore you may have to put the man pages into /usr/man/manl, which will be hard since there will be name collisions. (Note that the man command was originally written by
Bill Joy before he left Berkeley, and it
contains no AT&T code, so it is in UUNET's archive of freely-distributable BSD code.)

LINUX note: /usr/include/paths.h on some linux systems shows _PATH_SENDMAIL
to be /usr/bin/sendmail even though sendmail is installed in /usr/lib.
you should check this out.

say:
make all

su and say:
make install

Note that if I can get you to "su and say" something just by asking, you have a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file for help on this.

Use the `crontab' command to install all the little pieces you just created. Some examples (see below before trying any of these!)

```
crontab -u uucp -r /usr/lib/uucp/crontab.src
crontab -u news -r /usr/lib/news/crontab.src
crontab -u root -r /usr/adm/crontab.src
```

Notes on above examples: (1) the .src files are copied at the time the command is issued; changing the source files later will have

no effect until
they are reinstalled with another `crontab -r' command. (2) The crontab
command will affect the crontab of the person using the command unless `-u
USER' is given; `-u' only works for root. When using most `su' commands
under most BSD's, `crontab' will still think of you as yourself even though
you may think of yourself as root -- so use `-u' liberally. (3) the `-r'
option stands for `replace'; check the man page for crontab(1) for other
possibilities.

Kill your existing cron daemon -- do `ps aux' and look for /etc/cron.

Edit your /etc/rc or /etc/rc.local, looking for the line that starts up
/etc/cron. Comment it out and add a line to start the new cron daemon
-- usually /usr/local/etc/cron, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type /usr/local/etc/cron
(or whatever); no '&' is needed since the daemon forks itself and the
process you executed returns immediately.

ATT notes: for those people unfortunate enough to
be stuck on a AT&T UNIX,
you will need the public-domain "libndir", found in the B News source and in
any comp.sources.unix archive. You will also need to hack the code some.

Found in path(s):
* /opt/cola/permits/1267564117_1644318672.16/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/INSTALL
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* Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul
*/

Vixie Cron V3.0
December 27, 1993
[V2.2 was some time in 1992]

[V2.1 was May 29, 1991]
[V2.0 was July 5, 1990]
[V2.0-beta
was December 9, 1988]
[V1.0 was May 6, 1987]
Paul Vixie

This is a version of 'cron' that is known to run on BSD 4.[23] systems. It is functionally based on the SysV cron, which means that each user can have their own crontab file (all crontab files are stored in a read-protected directory, usually /var/cron/tabs). No direct support is provided for 'at'; you can continue to run 'atrun' from the crontab as you have been doing. If you don't have atrun (i.e., System V) you are in trouble.

A messages is logged each time a command is executed; also, the files "allow" and "deny" in /var/cron can be used to control access to the "crontab" command (which installs crontabs). It hasn't been tested on SysV, although some effort has gone into making the port an easy one.

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To use this: Sorry, folks, there is no cutesy 'Configure' script. You'll have to go edit a couple of files... So, here's the checklist:

Read all the FEATURES, INSTALL, and CONVERSION files
Edit config.h
Edit Makefile
(both of these files have instructions inside; note that
some things in config.h are definable in Makefile and are
therefore surrounded by #ifndef...#endif)
'make'
'su' and 'make install'
(you may have to install the man pages by hand)
kill your existing cron process
(actually you can run your existing cron if you want, but why?)
build new crontabs using /usr/lib/{crontab,crontab.local}
(either put them all in "root"'s crontab, or divide it up
and rip out all the 'su' commands, collapse the lengthy
lists into
ranges with steps -- basically, this step is
as much work as you want to make it)
start up the new cron

(must be done as root)
watch it. test it with 'crontab -r' and watch the daemon track your
changes.
if you like it, change your /etc/{rc,rc.local} to use it instead of
the old one.

$Id: README,v 2.3 1993/12/28 08:34:43 vixie Exp $

Found in path(s):
* /opt/cola/permits/1267564117_1644318672.16/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/README
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.\" */
.\"
.\" $Id: crontab.5,v 2.4 1994/01/15 20:43:43 vixie Exp $
.\"
```

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*
/opt/cola/permits/1267564117_1644318672.16/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.5
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.\" */
.\"
.\" $Id: cron.8,v 2.2 1993/12/28 08:34:43 vixie Exp $
.\"

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*
 /opt/cola/permits/1267564117_1644318672.16/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.8
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.\" @(#)bitstring.3 5.1
 (Berkeley) 12/13/89
.\"

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.\" $Id: crontab.1,v 2.4 1993/12/31 10:47:33 vixie Exp $
.\"

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* /opt/cola/permits/1267564117_1644318672.16/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/entry.c
* /opt/cola/permits/1267564117_1644318672.16/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/config.h
*
 /opt/cola/permits/1267564117_1644318672.16/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/do_command.c
* /opt/cola/permits/1267564117_1644318672.16/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/misc.c
* /opt/cola/permits/1267564117_1644318672.16/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.h
* /opt/cola/permits/1267564117_1644318672.16/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.c
* /opt/cola/permits/1267564117_1644318672.16/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.c
* /opt/cola/permits/1267564117_1644318672.16/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/user.c
* /opt/cola/permits/1267564117_1644318672.16/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/compat.c
* /opt/cola/permits/1267564117_1644318672.16/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/database.c
* /opt/cola/permits/1267564117_1644318672.16/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/env.c
* /opt/cola/permits/1267564117_1644318672.16/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/job.c

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*
* @(#)bitstring.h 5.2
 (Berkeley) 4/4/90
*/
```

Found in path(s):
* /opt/cola/permits/1267564117_1644318672.16/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/bitstring.h

1.1351 common 5.6.5

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* /opt/cola/permits/1268770716_1644437773.68/0/ingest-common-5-6-5-sources-jar/org/elasticsearch/ingest/common/Grok.java
*
 /opt/cola/permits/1268770716_1644437773.68/0/ingest-common-5-6-5-sources-jar/org/elasticsearch/ingest/common/JsonProcessor.java
* /opt/cola/permits/1268770716_1644437773.68/0/ingest-common-5-6-5-sources-jar/org/elasticsearch/ingest/common/GsubProcessor.java
* /opt/cola/permits/1268770716_1644437773.68/0/ingest-common-5-6-5-sources-jar/org/elasticsearch/ingest/common/ScriptProcessor.java
* /opt/cola/permits/1268770716_1644437773.68/0/ingest-common-5-6-5-sources-jar/org/elasticsearch/ingest/common/DateProcessor.java
* /opt/cola/permits/1268770716_1644437773.68/0/ingest-common-5-6-5-sources-jar/org/elasticsearch/ingest/common/LowercaseProcessor.java
* /opt/cola/permits/1268770716_1644437773.68/0/ingest-common-5-6-5-sources-jar/org/elasticsearch/ingest/common/GrokProcessor.java
* /opt/cola/permits/1268770716_1644437773.68/0/ingest-common-5-6-5-sources-jar/org/elasticsearch/ingest/common/SetProcessor.java
* /opt/cola/permits/1268770716_1644437773.68/0/ingest-common-5-6-5-sources-jar/org/elasticsearch/ingest/common/JoinProcessor.java
*
 /opt/cola/permits/1268770716_1644437773.68/0/ingest-common-5-6-5-sources-jar/org/elasticsearch/ingest/common/KeyValueProcessor.java
* /opt/cola/permits/1268770716_1644437773.68/0/ingest-common-5-6-5-sources-jar/org/elasticsearch/ingest/common/SplitProcessor.java
* /opt/cola/permits/1268770716_1644437773.68/0/ingest-common-5-6-5-sources-jar/org/elasticsearch/ingest/common/AbstractStringProcessor.java
* /opt/cola/permits/1268770716_1644437773.68/0/ingest-common-5-6-5-sources-jar/org/elasticsearch/ingest/common/ConvertProcessor.java
* /opt/cola/permits/1268770716_1644437773.68/0/ingest-common-5-6-5-sources-jar/org/elasticsearch/ingest/common/FailProcessor.java
* /opt/cola/permits/1268770716_1644437773.68/0/ingest-common-5-6-5-sources-jar/org/elasticsearch/ingest/common/RenameProcessor.java
* /opt/cola/permits/1268770716_1644437773.68/0/ingest-common-5-6-5-sources-jar/org/elasticsearch/ingest/common/DotExpanderProcessor.java
* /opt/cola/permits/1268770716_1644437773.68/0/ingest-common-5-6-5-sources-jar/org/elasticsearch/ingest/common/GrokProcessorGetAction.java
*
 /opt/cola/permits/1268770716_1644437773.68/0/ingest-common-5-6-5-sources-jar/org/elasticsearch/ingest/common/UppercaseProcessor.java
* /opt/cola/permits/1268770716_1644437773.68/0/ingest-common-5-6-5-sources-jar/org/elasticsearch/ingest/common/SortProcessor.java
* /opt/cola/permits/1268770716_1644437773.68/0/ingest-common-5-6-5-sources-

jar/org/elasticsearch/ingest/common/DateFormat.java
* /opt/cola/permits/1268770716_1644437773.68/0/ingest-common-5-6-5-sources-jar/org/elasticsearch/ingest/common/ForEachProcessor.java
* /opt/cola/permits/1268770716_1644437773.68/0/ingest-common-5-6-5-sources-jar/org/elasticsearch/ingest/common/AppendProcessor.java
* /opt/cola/permits/1268770716_1644437773.68/0/ingest-common-5-6-5-sources-jar/org/elasticsearch/ingest/common/FailProcessorException.java
* /opt/cola/permits/1268770716_1644437773.68/0/ingest-common-5-6-5-sources-jar/org/elasticsearch/ingest/common/TrimProcessor.java
*
/opt/cola/permits/1268770716_1644437773.68/0/ingest-common-5-6-5-sources-jar/org/elasticsearch/ingest/common/RemoveProcessor.java
* /opt/cola/permits/1268770716_1644437773.68/0/ingest-common-5-6-5-sources-jar/org/elasticsearch/ingest/common/DateIndexNameProcessor.java
* /opt/cola/permits/1268770716_1644437773.68/0/ingest-common-5-6-5-sources-jar/org/elasticsearch/ingest/common/GrokMatchGroup.java
* /opt/cola/permits/1268770716_1644437773.68/0/ingest-common-5-6-5-sources-jar/org/elasticsearch/ingest/common/IngestCommonPlugin.java

1.1352 runnel 5.7.3

1.1352.1 Available under license :

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Manifest-Version: 1.0
Bnd-LastModified: 1563545617061
Build-Jdk: 1.8.0_202
Built-By: jenkins-slave
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: runnel
Bundle-SymbolicName: org.terracotta.runnel
Bundle-Version: 5.7.3
Created-By: Apache Maven Bundle Plugin
Export-Package: org.terracotta.runnel.decoding.fields;uses:="org.terraco
tta.runnel,org.terracotta.runnel.decoding,org.terracotta.runnel.metadat
a,org.terracotta.runnel.utils";version="5.7.3",org.terracotta.runnel.de
coding;uses:="org.terracotta.runnel.decoding.fields,org.terracotta.runn
el.utils";version="5.7.3",org.terracotta.runnel.utils;version="5.7.3",o
rg.terracotta.runnel.encoding;uses:="org.terracotta.runnel.decoding.fie
lds,org.terracotta.runnel.encoding.dataholders";version="5.7.3",org.ter
racotta.runnel.encoding.dataholders;uses:="org.terracotta.runnel,org.te
rracotta.runnel.utils";version="5.7.3",org.terracotta.runnel;uses:="org
.terracotta.runnel.decoding,org.terracotta.runnel.decoding.fields,org.t
erracotta.runnel.encoding";version="5.7.3",org.terracotta.runnel.metada
ta;uses:="org.terracotta.runnel.decoding,org.terracotta.runnel.decoding
.fields,org.terracotta.runnel.utils";version="5.7.3"

Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-2.4.1.201501161923

Found in path(s):
* /opt/cola/permits/1268771133_1692775442.799562/0/runnel-5-7-3-jar/META-INF/MANIFEST.MF
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* /opt/cola/permits/1268771133_1692775442.799562/0/runnel-5-7-3-jar/META-INF/maven/org.terracotta/runnel/pom.xml

1.1353 management 5.6.5

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1.1354 lease-entity-client 5.7.3

1.1354.1 Available under license :

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Bnd-LastModified: 1563545621013
Build-Jdk: 1.8.0_202
Built-By: jenkins-slave
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: lease-entity-client
Bundle-SymbolicName: org.terracotta.lease-entity-client
Bundle-Version: 5.7.3
Created-By: Apache Maven Bundle Plugin
Export-Package: org.terracotta.lease;version="5.7.3";uses:="org.terracot
ta.connection.entity,org.terracotta.entity,org.terracotta.runnel,org.te
rracotta.runnel.decoding,org.terracotta.runnel.encoding"
Import-Package: org.terracotta.connection.entity,org.terracotta.entity,o
rg.terracotta.exception,org.terracotta.runnel;version="[5.7,6)",org.ter
racotta.runnel.decoding;version="[5.7,6)",org.terracotta.runnel.encodin
g;version="[5.7,6)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-2.4.1.201501161923

Found in path(s):
* /opt/cola/permits/1268770745_1692782307.241699/0/lease-entity-client-5-7-3-jar/META-INF/MANIFEST.MF
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Found in path(s):
* /opt/cola/permits/1268770745_1692782307.241699/0/lease-entity-client-5-7-3-jar/META-INF/maven/org.terracotta/lease-entity-api/pom.xml
* /opt/cola/permits/1268770745_1692782307.241699/0/lease-entity-client-5-7-3-jar/META-INF/maven/org.terracotta/lease-entity-common/pom.xml
* /opt/cola/permits/1268770745_1692782307.241699/0/lease-entity-client-5-7-3-jar/META-INF/maven/org.terracotta/runnel/pom.xml
* /opt/cola/permits/1268770745_1692782307.241699/0/lease-entity-client-5-7-3-jar/META-INF/maven/org.terracotta/lease-common/pom.xml
* /opt/cola/permits/1268770745_1692782307.241699/0/lease-entity-client-5-7-3-jar/META-INF/maven/org.terracotta/lease-entity-client/pom.xml
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#

org.terracotta.lease.LeaseAcquirerClientService

Found in path(s):
* /opt/cola/permits/1268770745_1692782307.241699/0/lease-entity-client-5-7-3-jar/META-INF/services/org.terracotta.entity.EntityClientService

1.1355 entity-common-api 1.6.1

1.1355.1 Available under license :

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Found in path(s):
* /opt/cola/permits/1268771490_1696271042.634215/0/entity-common-api-1-6-1-zip/entity-common-api/src/main/java/org/terracotta/entity/EntityUserException.java
* /opt/cola/permits/1268771490_1696271042.634215/0/entity-common-api-1-6-1-zip/entity-common-api/src/main/java/org/terracotta/entity/EntityMessage.java
* /opt/cola/permits/1268771490_1696271042.634215/0/entity-common-api-1-6-1-zip/entity-common-api/src/main/java/org/terracotta/entity/EntityResponse.java
* /opt/cola/permits/1268771490_1696271042.634215/0/entity-common-api-1-6-1-zip/entity-common-api/src/main/java/org/terracotta/entity/MessageCodec.java
* /opt/cola/permits/1268771490_1696271042.634215/0/entity-common-api-1-6-1-zip/entity-common-api/src/main/java/org/terracotta/entity/StateDumpable.java
* /opt/cola/permits/1268771490_1696271042.634215/0/entity-common-api-1-6-1-zip/entity-common-api/src/main/java/org/terracotta/entity/StateDumpCollector.java
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Found in path(s):
* /opt/cola/permits/1268771490_1696271042.634215/0/entity-common-api-1-6-1-zip/entity-common-api/src/main/java/org/terracotta/entity/MessageCodecException.java

1.1356 lease-entity-api 5.7.3

1.1356.1 Available under license :

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```
Manifest-Version: 1.0
Bnd-LastModified: 1563545613036
Build-Jdk: 1.8.0_202
Built-By: jenkins-slave
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: lease-entity-api
Bundle-SymbolicName: org.terracotta.lease-entity-api
Bundle-Version: 5.7.3
Created-By: Apache Maven Bundle Plugin
Export-Package: org.terracotta.lease;version="5.7.3";uses:="org.terracot
ta.connection.entity"
Import-Package: org.terracotta.connection.entity
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-2.4.1.201501161923
```

Found in path(s):
* /opt/cola/permits/1268770821_1692782517.6786702/0/lease-entity-api-5-7-3-jar/META-INF/MANIFEST.MF
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Found in path(s):
* /opt/cola/permits/1268770821_1692782517.6786702/0/lease-entity-api-5-7-3-jar/META-INF/maven/org.terracotta/lease-entity-api/pom.xml

1.1357 connection-api 1.6.1

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Found in path(s):
* /opt/cola/permits/1268770802_1692774942.5280762/0/connection-api-1-6-1-pre1-jar/META-INF/maven/org.terracotta/connection-api/pom.xml

1.1358 connection-impl 5.6.5

1.1358.1 Available under license :

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Found in path(s):
* /opt/cola/permits/1268771337_1696138193.0635307/0/connection-impl-5-6-5-zip/connection-impl/src/main/java/com/terracotta/connection/EndpointConnectorImpl.java
* /opt/cola/permits/1268771337_1696138193.0635307/0/connection-impl-5-6-5-zip/connection-impl/src/main/java/com/terracotta/connection/EntityClientServiceFactory.java
* /opt/cola/permits/1268771337_1696138193.0635307/0/connection-impl-5-6-5-zip/connection-impl/src/test/java/com/terracotta/connection/entity/TerracottaEntityRefTest.java
* /opt/cola/permits/1268771337_1696138193.0635307/0/connection-impl-5-6-5-zip/connection-impl/src/main/java/com/terracotta/connection/TerracottaConnection.java
* /opt/cola/permits/1268771337_1696138193.0635307/0/connection-impl-5-6-5-zip/connection-impl/src/main/java/com/terracotta/connection/EndpointConnector.java
* /opt/cola/permits/1268771337_1696138193.0635307/0/connection-impl-5-6-5-zip/connection-impl/src/main/java/com/terracotta/connection/entity/TerracottaEntityRef.java
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Found in path(s):
* /opt/cola/permits/1268771337_1696138193.0635307/0/connection-impl-5-6-5-zip/connection-impl/pom.xml

1.1359 build-data 5.6.5

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```

Found in path(s):
* /opt/cola/permits/1268771287_1692774694.5015054/0/build-data-5-6-5-jar/META-INF/maven/org.terracotta.internal/build-data/pom.xml

1.1360 dso-l1 5.6.5

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Found in path(s):
* /opt/cola/permits/1268770962_1692784482.7172291/0/dso-l1-5-6-5-jar/META-INF/maven/org.terracotta.internal/dso-l1/pom.xml

1.1361 lease-api 5.7.3

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Found in path(s):
* /opt/cola/permits/1268770869_1692775530.3651829/0/lease-api-5-7-3-jar/META-INF/maven/org.terracotta/lease-api/pom.xml
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#

org.terracotta.lease.connection.LeasedConnectionServiceImpl

Found in path(s):
* /opt/cola/permits/1268770869_1692775530.3651829/0/lease-api-5-7-3-jar/META-INF/services/org.terracotta.lease.connection.LeasedConnectionService
No license file was found, but licenses were detected in source scan.

```
Manifest-Version: 1.0
Bnd-LastModified: 1563545627686
Build-Jdk: 1.8.0_202
Built-By: jenkins-slave
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: lease-api
Bundle-SymbolicName: org.terracotta.lease-api
Bundle-Version: 5.7.3
Created-By: Apache Maven Bundle Plugin
Export-Package: org.terracotta.lease;version="5.7.3";uses:="org.terracot
ta.connection,org.terracotta.connection.entity,org.terracotta.entity,or
g.terracotta.runnel,org.terracotta.runnel.decoding,org.terracotta.runne
l.encoding",org.terracotta.lease.connection;uses:="org.terracotta.conne
ction,org.terracotta.connection.entity,org.terracotta.exception";versio
n="5.7.3"
Import-Package: com.tc.util,org.slf4j;version="[1.7,2)",org.terracotta.c
onnection,org.terracotta.connection.entity,org.terracotta.entity,org.te
rracotta.exception,org.terracotta.runnel,org.terracotta.runnel.decoding
,org.terracotta.runnel.encoding
Require-Capability:
 osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-2.4.1.201501161923
```

Found in path(s):
* /opt/cola/permits/1268770869_1692775530.3651829/0/lease-api-5-7-3-jar/META-INF/MANIFEST.MF

1.1362 lease-common 5.7.3

1.1362.1 Available under license :

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Manifest-Version: 1.0
Bnd-LastModified: 1563545611281
Build-Jdk: 1.8.0_202
Built-By: jenkins-slave
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: lease-common
Bundle-SymbolicName: org.terracotta.lease-common
Bundle-Version: 5.7.3
Created-By: Apache Maven Bundle Plugin
Export-Package: org.terracotta.lease;version="5.7.3"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-2.4.1.201501161923

Found in path(s):
* /opt/cola/permits/1268771466_1692782617.8927243/0/lease-common-5-7-3-jar/META-INF/MANIFEST.MF
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Found in path(s):
* /opt/cola/permits/1268771466_1692782617.8927243/0/lease-common-5-7-3-jar/META-INF/maven/org.terracotta/lease-common/pom.xml

1.1363 packaging-support 1.6.1

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* /opt/cola/permits/1268770530_1692783841.270795/0/packaging-support-1-6-1-pre1-jar/META-INF/maven/org.terracotta/packaging-support/pom.xml

1.1364 client-runtime 5.6.5

1.1364.1 Available under license :


```
00,*H80Su)RJ.R<D?Q&iE]@"QY=X0Ul;4of`kP{"O;W5TZ2u+a*"H`P#X=\6Wy:WL=gQYWYOqIq#L(
2<zT|(+un!5bbz$;QZf^{U%dL;I*]gw=>R
|RQ+6Og8V+a(Jl{RHknQ0HsqhwV!x
MYc*yb7 DB$^HBWs/CU.M~
```


```
#!/usr/bin/env bash
# MIT licenses will each have a unique MD5 sum since they contain a unique copyright.
# This script will read the license file into memory, strip out the copyright, and then
# generate an MD5 that is not unique and can be matched against a known MIT MD5 sum.
set -e

calculate_md5_sum() {
 local FILE="$1"

 # Read the contents of the file into a variable
 local raw_license_text=$(<"$FILE")
```

```
 # Convert to lowercase
 local lowercase_license_text="${raw_license_text,,}"

 # Remove anything before the beginning of the license
 local stripped_license_text=$(awk '/permission is hereby granted,/{p=1} p' <<< "$lowercase_license_text")

 # Replace line breaks (Windows or Linux) with a single space
 local replaced_linebreaks=$(tr '\r\n' ' ' <<< "$stripped_license_text")

 # Replace multiple spaces with a single space
 local normalized_license_text=$(tr -s ' ' <<< "$replaced_linebreaks")

 # Strip away any non-printable, non-whitespace characters
 local clean_unprintable_license_text=$(tr
 -cd '[:print:][:space:]' <<< "$normalized_license_text")

 # Remove punctuation and special characters
 local clean_license_text=$(echo "$clean_unprintable_license_text" | sed 's/[^a-zA-Z ]//g')

 # Calculate the MD5 sum of the cleaned license text
 local MD5SUM=$(echo -n "$clean_license_text" | md5sum | awk '{print $1}')

 # Output the MD5 sum
 echo "$MD5SUM"
}

# Check if the FILE argument is provided
if [ -z "$1" ]; then
 echo "Please provide a FILE as an argument."
 exit 1
fi

# Invoke the function with the provided FILE argument
calculate_md5_sum "$1"
com.tc.license.TerracottaLicenseResolver
```

1.1365 tc-messaging 5.6.5

1.1365.1 Available under license :

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* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/exception/EntityReferencedException.java
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/opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/entity/DiagnosticResponse.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/net/protocol/transport/WireProtocolAdaptorImpl.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/io/TCByteArrayOutputStream.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/test/java/com/tc/io/TCByteBufferInputStreamTest.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/test/java/com/tc/util/ConversionTest.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/util/FindbugsSuppressWarnings.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/l2/msg/IBatchableGroupMessage.java
*
/opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/net/core/TCConnection.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/async/api/OrderedEventContext.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/net/groups/TCGroupHandshakeMessage.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/net/protocol/TCProtocolException.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/net/groups/L1RemovedGroupMessage.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/test/java/com/tc/object/tx/ServerTransactionIDTest.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/net/protocol/delivery/OOOProtocolMessageHeader.java
*
/opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/exception/TCRuntimeException.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/net/core/ConnectionInfo.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/entity/ReplayVoltronEntityMultiResponse.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/text/PrettyPrinter.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-

messaging/src/main/java/com/tc/entity/VoltronEntityRetiredResponse.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/net/protocol/NetworkStackID.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/net/protocol/delivery/OOOProtocolMessageImpl.java
*
/opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/net/protocol/TCNetworkHeader.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/net/protocol/transport/WireProtocolHeader.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/test/java/com/tc/util/concurrent/SetOnceFlagTest.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/l2/msg/ReplicationMessage.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/test/java/com/tc/object/compression/StringCompressionUtilTest.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/net/groups/NodeIDSerializer.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/net/StripeID.java
*
/opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/io/TCByteBufferOutputStream.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/net/protocol/tcm/TCMessageHeaderImpl.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/net/protocol/transport/TransportHandshakeMessageFactory.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/test/java/com/tc/net/TCSocketAddressTest.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/lang/Recyclable.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/entity/NetworkVoltronEntityMessage.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/test/java/com/tc/net/ServerIDTest.java
*
/opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/l2/msg/ReplicationMessageAck.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/util/Stack.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/net/protocol/transport/TransportMessageFactoryImpl.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/l2/msg/L2StateMessage.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/net/protocol/transport/WireProtocolMessageSink.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/test/java/com/tc/util/ClassUtilsTest.java

* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/test/java/com/tc/util/StackTest.java
*
 /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/bytes/TCByteBuffer.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/net/protocol/transport/WireProtocolMessageImpl.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/object/FetchID.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/net/NodeID.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/object/ClientInstanceID.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/util/AbstractIdentifier.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/net/protocol/transport/WireProtocolGroupMessage.java
*
 /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/exception/TCInternalError.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/util/SequenceID.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/net/protocol/tcm/MessageMonitor.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/entity/ServerEntityMessage.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/net/TCSocketAddress.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/object/msg/ClientHandshakeMessageImpl.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/net/protocol/AbstractTCProtocolAdaptor.java
*
 /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/entity/MessageCodecSupplier.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/entity/VoltronEntityReceivedResponseImpl.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/net/protocol/transport/WireProtocolAdaptor.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/entity/RequestPersistenceOptions.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/object/msg/MapSerializer.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/net/MaxConnectionsExceededException.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/util/Assert.java
*

/opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/object/msg/ClientHandshakeResponse.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/net/protocol/tcm/UnknownNameException.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/net/groups/StripeIDGroupMessage.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/net/protocol/tcm/TCMessageType.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/net/protocol/transport/SynMessage.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/net/protocol/transport/WireProtocolException.java
*
/opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/object/msg/ClientEntityReferenceContext.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/net/protocol/TCProtocolAdaptor.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/net/protocol/transport/AckMessage.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/object/msg/ClientHandshakeMessage.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/l2/msg/ReplicationAckTuple.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/util/SinglyLinkedList.java
* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/src/main/java/com/tc/object/compression/CompressedData.java
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* /opt/cola/permits/1268770742_1696138278.0468147/0/tc-messaging-5-6-5-zip/tc-messaging/pom.xml

1.1366 oauth2-useragent 0.11.3

1.1366.1 Available under license :

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* /opt/cola/permits/1268770780_1644437779.62/0/oauth2-useragent-0-11-3-sources-jar/com/microsoft/alm/oauth2/useragent/ProviderScanner.java
* /opt/cola/permits/1268770780_1644437779.62/0/oauth2-useragent-0-11-3-sources-jar/com/microsoft/alm/oauth2/useragent/AuthorizationResponse.java
* /opt/cola/permits/1268770780_1644437779.62/0/oauth2-useragent-0-11-3-sources-jar/com/microsoft/alm/oauth2/useragent/utils/PackageLocator.java
* /opt/cola/permits/1268770780_1644437779.62/0/oauth2-useragent-0-11-3-sources-jar/com/microsoft/alm/oauth2/useragent/utils/StringHelper.java
* /opt/cola/permits/1268770780_1644437779.62/0/oauth2-useragent-0-11-3-sources-jar/com/microsoft/alm/oauth2/useragent/InterceptingBrowser.java
* /opt/cola/permits/1268770780_1644437779.62/0/oauth2-useragent-0-11-3-sources-jar/com/microsoft/alm/oauth2/useragent/JavaFx.java
* /opt/cola/permits/1268770780_1644437779.62/0/oauth2-useragent-0-11-3-sources-jar/com/microsoft/alm/oauth2/useragent/AuthorizationException.java
* /opt/cola/permits/1268770780_1644437779.62/0/oauth2-useragent-0-11-3-sources-jar/com/microsoft/alm/oauth2/useragent/urn/Handler.java
* /opt/cola/permits/1268770780_1644437779.62/0/oauth2-useragent-0-11-3-sources-jar/com/microsoft/alm/oauth2/useragent/subprocess/ProcessCoordinator.java
* /opt/cola/permits/1268770780_1644437779.62/0/oauth2-useragent-0-11-3-sources-jar/com/microsoft/alm/oauth2/useragent/subprocess/StreamConsumer.java
* /opt/cola/permits/1268770780_1644437779.62/0/oauth2-useragent-0-11-3-sources-jar/com/microsoft/alm/oauth2/useragent/JavaFxProvider.java
* /opt/cola/permits/1268770780_1644437779.62/0/oauth2-useragent-0-11-3-sources-jar/com/microsoft/alm/oauth2/useragent/RunnableFactory.java
* /opt/cola/permits/1268770780_1644437779.62/0/oauth2-useragent-0-11-3-sources-jar/com/microsoft/alm/oauth2/useragent/UserAgentImpl.java
* /opt/cola/permits/1268770780_1644437779.62/0/oauth2-useragent-0-11-3-sources-jar/com/microsoft/alm/oauth2/useragent/StandardWidgetToolkitProvider.java
* /opt/cola/permits/1268770780_1644437779.62/0/oauth2-useragent-0-11-3-sources-jar/com/microsoft/alm/oauth2/useragent/UserAgent.java
* /opt/cola/permits/1268770780_1644437779.62/0/oauth2-useragent-0-11-3-sources-jar/com/microsoft/alm/oauth2/useragent/subprocess/DefaultProcessFactory.java
* /opt/cola/permits/1268770780_1644437779.62/0/oauth2-useragent-0-11-3-sources-

jar/com/microsoft/alm/oauth2/useragent/subprocess/DefaultProcess.java
* /opt/cola/permits/1268770780_1644437779.62/0/oauth2-useragent-0-11-3-sources-jar/com/microsoft/alm/oauth2/useragent/SwtInterceptingBrowser.java
* /opt/cola/permits/1268770780_1644437779.62/0/oauth2-useragent-0-11-3-sources-jar/com/microsoft/alm/oauth2/useragent/Version.java
* /opt/cola/permits/1268770780_1644437779.62/0/oauth2-useragent-0-11-3-sources-jar/com/microsoft/alm/oauth2/useragent/StandardWidgetToolkit.java
*
/opt/cola/permits/1268770780_1644437779.62/0/oauth2-useragent-0-11-3-sources-jar/com/microsoft/alm/oauth2/useragent/Provider.java
* /opt/cola/permits/1268770780_1644437779.62/0/oauth2-useragent-0-11-3-sources-jar/com/microsoft/alm/oauth2/useragent/subprocess/TestableProcess.java
* /opt/cola/permits/1268770780_1644437779.62/0/oauth2-useragent-0-11-3-sources-jar/com/microsoft/alm/oauth2/useragent/subprocess/TestableProcessFactory.java

1.1367 connection-loader 5.6.5

1.1367.1 Available under license :

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* /opt/cola/permits/1268770392_1696138238.4761164/0/connection-loader-5-6-5-zip/connection-loader/src/main/java/com/terracotta/connection/TerracottaInternalClientImpl.java
* /opt/cola/permits/1268770392_1696138238.4761164/0/connection-loader-5-6-5-zip/connection-loader/src/main/java/com/terracotta/connection/client/TerracottaClientStripeConnectionConfig.java
* /opt/cola/permits/1268770392_1696138238.4761164/0/connection-loader-5-6-5-zip/connection-loader/src/main/java/com/terracotta/connection/ClientHandle.java
* /opt/cola/permits/1268770392_1696138238.4761164/0/connection-loader-5-6-5-zip/connection-loader/src/main/java/com/terracotta/connection/TerracottaInternalClientFactoryImpl.java
* /opt/cola/permits/1268770392_1696138238.4761164/0/connection-loader-5-6-5-zip/connection-loader/src/main/java/com/terracotta/connection/ClientHandleImpl.java
* /opt/cola/permits/1268770392_1696138238.4761164/0/connection-loader-5-6-5-zip/connection-loader/src/main/java/com/terracotta/connection/TerracottaInternalClient.java
* /opt/cola/permits/1268770392_1696138238.4761164/0/connection-loader-5-6-5-zip/connection-loader/src/main/java/com/terracotta/connection/api/TerracottaConnectionService.java
* /opt/cola/permits/1268770392_1696138238.4761164/0/connection-loader-5-6-5-zip/connection-loader/src/main/java/com/terracotta/connection/client/TerracottaClientConfigParams.java
* /opt/cola/permits/1268770392_1696138238.4761164/0/connection-loader-5-6-5-zip/connection-loader/src/main/java/com/terracotta/connection/api/DetailedConnectionException.java
* /opt/cola/permits/1268770392_1696138238.4761164/0/connection-loader-5-6-5-zip/connection-loader/src/main/java/com/terracotta/connection/TerracottaInternalClientFactory.java
* /opt/cola/permits/1268770392_1696138238.4761164/0/connection-loader-5-6-5-zip/connection-loader/src/test/java/com/terracotta/connection/api/DetailedConnectionExceptionTest.java
* /opt/cola/permits/1268770392_1696138238.4761164/0/connection-loader-5-6-5-zip/connection-loader/src/main/java/com/terracotta/connection/api/DiagnosticConnectionService.java

1.1368 entity-client-api 1.6.1

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Found in path(s):
* /opt/cola/permits/1268771070_1692781809.974068/0/entity-client-api-1-6-1-pre1-jar/META-INF/maven/org.terracotta/entity-client-api/pom.xml

1.1369 lease-entity-common 5.7.3

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```
Manifest-Version: 1.0
Bnd-LastModified: 1563545619402
Build-Jdk: 1.8.0_202
Built-By: jenkins-slave
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: lease-entity-common
Bundle-SymbolicName: org.terracotta.lease-entity-common
Bundle-Version: 5.7.3
Created-By: Apache Maven Bundle Plugin
Export-Package: org.terracotta.lease;version="5.7.3";uses:="org.terracot
ta.connection.entity,org.terracotta.entity,org.terracotta.runnel,org.te
rracotta.runnel.decoding,org.terracotta.runnel.encoding"
Import-Package: org.terracotta.connection.entity,org.terracotta.entity,o
rg.terracotta.runnel;version="[5.7,6)",org.terracotta.runnel.decoding;v
ersion="[5.7,6)",org.terracotta.runnel.encoding;version="[5.7,6)"
```

Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-2.4.1.201501161923

Found in path(s):
* /opt/cola/permits/1268771264_1692774571.2529502/0/lease-entity-common-5-7-3-jar/META-INF/MANIFEST.MF
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Found in path(s):
* /opt/cola/permits/1268771264_1692774571.2529502/0/lease-entity-common-5-7-3-jar/META-INF/maven/org.terracotta/lease-entity-common/pom.xml

1.1370 flynn-go-shlex 0.0.0-20150515145356-3f9db97f8568

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1.1371 libuv 1.43.0

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* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/osgi/OSGiClassLoader.java

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* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/converters/ShortConverter.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/converters/ByteConverter.java

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* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/loader/api/TypeMappingOption.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/event/EventManager.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/propertydescriptor/JavaBeanPropertyDescriptor.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/propertydescriptor/DeepHierarchyElement.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/inject/Inject.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/DozerEventListener.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/classmap/generator/GeneratorUtils.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/builder/DestBeanBuilderCreator.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/fieldmap/CustomGetSetMethodFieldMap.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/DozerBeanMapperSingletonWrapper.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/loader/xml/ELEngine.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/builder/BuilderUtil.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/loader/api/FieldsMappingOptions.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/loader/api/FieldDefinition.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/propertydescriptor/CustomGetSetPropertyDescriptor.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/stats/StatisticsInterceptor.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/event/DozerEventType.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/event/DozerEventManager.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/DozerInitializer.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/factory/BeanCreationStrategy.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-

jar/org/dozer/builder/BeanBuilderCreationStrategy.java
*
/opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/CustomFieldMapper.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/util/TypeResolver.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/util/ResourceLoader.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/cache/DozerCacheType.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/loader/DozerBuilder.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
jar/org/dozer/loader/api/BeanMappingBuilder.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/stats/StatisticsManager.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
jar/org/dozer/classmap/CopyByReferenceContainer.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/classmap/ClassMappings.java
*
/opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/cache/DozerCache.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/DozerBeanMapper.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/jmx/JMXPlatform.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/factory/XMLBeanFactory.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
jar/org/dozer/metadata/DozerMappingMetadata.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/util/NoProxyResolver.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
jar/org/dozer/stats/StatisticsManagerImpl.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
jar/org/dozer/converters/EnumConverter.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
jar/org/dozer/loader/api/TypeMappingOptions.java
*
/opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
jar/org/dozer/converters/ConversionException.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/MapperAware.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
jar/org/dozer/propertydescriptor/GetterSetterPropertyDescriptor.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
jar/org/dozer/BeanGeneralCreationStrategy.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/util/CollectionUtils.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
jar/org/dozer/classmap/AllowedExceptionContainer.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/cache/CacheEntry.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/loader/MappingsSource.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
jar/org/dozer/converters/DateFormatContainer.java
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/opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/loader/xml/XMLParser.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
jar/org/dozer/metadata/FieldMappingMetadata.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/util/MappingUtils.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-

jar/org/dozer/propertydescriptor/XmlBeanPropertyDescriptor.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/util/DozerClassLoader.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/loader/MappingsParser.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
jar/org/dozer/factory/ConstructionStrategies.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
jar/org/dozer/converters/PrimitiveOrWrapperConverter.java
*
/opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/factory/JAXBBeanFactory.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
jar/org/dozer/fieldmap/ExcludeFieldMap.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
jar/org/dozer/converters/XMLGregorianCalendarConverter.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/BeanFactory.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
jar/org/dozer/propertydescriptor/MapPropertyDescriptor.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/stats/StatisticType.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
jar/org/dozer/propertydescriptor/AbstractPropertyDescriptor.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/config/PropertyConstants.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/BeanBuilder.java
*
/opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/DozerModule.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
jar/org/dozer/loader/xml/ElementReader.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
jar/org/dozer/classmap/generator/JavaBeanFieldsDetector.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/config/GlobalSettings.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/CustomConverter.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/util/DefaultClassLoader.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
jar/org/dozer/inject/DozerBeanContainer.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
jar/org/dozer/loader/xml/DozerResolver.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/util/DeepHierarchyUtils.java
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/opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
jar/org/dozer/converters/CalendarConverter.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/stats/Statistic.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
jar/org/dozer/cache/DozerCacheManager.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
jar/org/dozer/jmx/DozerAdminControllerMBean.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
jar/org/dozer/util/BridgedMethodFinder.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
jar/org/dozer/converters/StringConstructorConverter.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/Mapper.java

* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/converters/CustomConverterContainer.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/classmap/ClassMapBuilder.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/loader/xml/ExpressionElementReader.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/loader/xml/XMLParserFactory.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/converters/IntegerConverter.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/factory/DestBeanCreator.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/loader/api/FieldsMappingOption.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/fieldmap/HintContainer.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/classmap/ClassMap.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/DozerConverter.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/util/DozerProxyResolver.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/fieldmap/FieldMap.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/jmx/DozerStatisticsControllerMBean.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/classmap/CopyByReference.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/stats/GlobalStatistics.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/propertydescriptor/PropertyDescriptorCreationStrategy.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/metadata/MappingMetadata.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/MappingProcessor.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/cache/Cache.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/ConfigurableCustomConverter.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/converters/StringConverter.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/config/BeanContainer.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/metadata/MetadataLookupException.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/MappedFieldsTracker.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/util/MappingValidator.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/loader/CustomMappingsLoader.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/event/DozerEvent.java
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* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/loader/LoadMappingsResult.java
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*
/opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/stats/StatisticEntry.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/propertydescriptor/SelfPropertyDescriptor.java

* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/propertydescriptor/PropertyDescriptorFactory.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/metadata/DozerFieldMappingMetadata.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/loader/api/TypeDefinition.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/fieldmap/GenericFieldMap.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/jmx/DozerStatisticsController.java
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* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/util/HibernateProxyResolver.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/util/DefaultProxyResolver.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/inject/BeanRegistry.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/fieldmap/MapFieldMap.java
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Found in path(s):
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/beanmapping.xsd

1.1412 getlantern-deepcopy 0.0.0-20160317154340-7f45deb8130a

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```
package artifactory

import (
 "encoding/json"
)

type LicenseInformation struct {
 LicenseType  string `json:"type"`
 ValidThrough string `json:"validThrough"`
 LicensedTo   string `json:"licensedTo"`
}

func (c *ArtifactoryClient) GetLicenseInformation() (LicenseInformation, error) {
 o := make(map[string]string, 0)
 var l LicenseInformation
 d, e := c.Get("/api/system/license", o)
 if e != nil {
  return l, e
 } else {
  err := json.Unmarshal(d, &l)
  return l, err
 }
}
```

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1.1414 plexus-cipher 2.0

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jar/org/sonatype/plexus/components/cipher/PlexusCipherException.java
* /opt/cola/permits/1273551835_1645116705.85/0/plexus-cipher-2-0-sources-
jar/org/sonatype/plexus/components/cipher/PlexusCipher.java
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1.1415 springdoc-openapi-ui 1.6.4

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* /opt/cola/permits/1273776320_1645132997.26/0/springdoc-openapi-ui-1-6-4-sources-jar/org/springdoc/webmvc/ui/SwaggerWebMvcConfigurer.java
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1.1416 springdoc-openapi-webmvc-core 1.6.4

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* /opt/cola/permits/1273776259_1645133002.85/0/springdoc-openapi-webmvc-core-1-6-4-sources-jar/org/springdoc/webmvc/core/RouterFunctionWebMvcProvider.java

1.1417 springdoc-openapi-common 1.6.4

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1.1419 krallistic-kazoo-go 0.0.0-20170526135507-a15279744f4e

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1.1420 postcss-opacity-percentage 1.1.2

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1.1421 gopkg.in/urfave/cli.v1 1.20.0

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1.1422 pq 1.10.4

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```
//go:build go1.10
// +build go1.10

package pq

import (
 "context"
 "database/sql/driver"
)

// NoticeHandler returns the notice handler on the given connection, if any. A
// runtime panic occurs if c is not a pq connection. This is rarely used
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
 return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A
// runtime panic occurs if c is not a pq connection. A nil handler may be used
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and
// ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
 c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
```

```
//
 on it.
type NoticeHandlerConnector struct {
 driver.Connector
 noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
 c, err := n.Connector.Connect(ctx)
 if err == nil {
  SetNoticeHandler(c, n.noticeHandler)
 }
 return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  return c.noticeHandler
 }
 return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and
 setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  c.noticeHandler = handler
  return c
 }
 return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}
```

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1.1423 github.com/juniper/go-netconf 0.1.2-0.20210226165350-bb51e84ff02b

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1.1424 github.com/meirf/gopart 0.0.0-20180520194036-37e9492a85a8

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1.1425 github.com/forestgiant/sliceutil 0.0.0-20160425183142-94783f95db6c

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1.1426 juniper-go-netconf 0.1.2-0.20210226165350-bb51e84ff02b

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1.1427 antlr 4.9.3

1.1427.1 Available under license :

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1.1428 url-parse 1.5.10

1.1428.1 Available under license :

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1.1429 xerces-j 2.12.2

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1.1430 gobwas-pool 0.2.0

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1.1432 hashicorp-go-version 1.4.0

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1.1438 jaxb-runtime 2.3.6

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1.1439 github.com/kennygrant/sanitize 1.2.4

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```
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import (
 "encoding/json"
)

type LicenseInformation struct {
 LicenseType  string `json:"type"`
 ValidThrough string `json:"validThrough"`
 LicensedTo   string `json:"licensedTo"`
}

func (c *ArtifactoryClient) GetLicenseInformation() (LicenseInformation, error) {
 o := make(map[string]string, 0)
 var l LicenseInformation
 d, e := c.Get("/api/system/license", o)
 if e != nil {
  return l, e
 } else {
  err := json.Unmarshal(d, &l)
  return l, err
```

}
}
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that the second address should be recognized as the
same person when interacting with Rietveld.

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1.1445 brace-expansion 2.0.1

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1.1446 spf13-pflag 1.0.1

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1.1447 x-net 0.0.0-20220225172249-27dd8689420f

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1.1448 ethtool 0.0.0-20210803160452-9aa261dae9b1

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1.1449 container-storage-interface-spec 1.5.0

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1.1450 importlib-metadata 1.6.0

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1.1451 properties 1.8.6

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1.1452 commons-jexl3 3.2.1

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* /opt/cola/permits/1285266498_1651224945.54/0/xmlsectool-3-0-0-sources-jar/net/shibboleth/tool/xmlsectool/SchemaValidator.java
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* /opt/cola/permits/1285266498_1651224945.54/0/xmlsectool-3-0-0-sources-jar/net/shibboleth/tool/xmlsectool/XMLSecTool.java
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* /opt/cola/permits/1285266498_1651224945.54/0/xmlsectool-3-0-0-sources-jar/net/shibboleth/tool/xmlsectool/InitializationSupport.java

1.1454 liburcu 0.12.2-1

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That's all there is to it!
Mathieu Desnoyers
May 13th, 2009

IBM Corporation allowed LGPLv2.1+ licensing of their contribution to the
userspace RCU library in a patch submitted on May 8, 2009 from Paul E.
McKenney and reviewed by Steven L. Bennett:

https://lists.lttng.org/pipermail/lttng-dev/2009-May/012835.html

I (Mathieu Desnoyers) re-implemented ACCESS_ONCE(), likely(), unlikely() and
barrier() from scratch without reference to the original code.

commit id : 2dc5fa0f7cfbfb0a64a7a67b39626650e863f16a

Bert Wesarg <bert.wesarg@googlemail.com> approved LGPL relicensing of his
patch in an email dated May 13, 2009 :

http://lkml.org/lkml/2009/5/13/16

xchg() primitives has been rewritten from a MIT-licensed cmpxchg for Intel
and powerpc. They are MIT-licensed and therefore usable in LGPL code.
This cmpxchg code was obtained from the atomic_ops project:

http://www.hpl.hp.com/research/linux/atomic_ops/

I (Mathieu Desnoyers) wrote the remainder of the code.

The license for the library files in this project
was therefore changed to
LGPLv2.1 on May 13, 2009, as detailed in LICENSE.
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1.1458 thymeleaf 3.0.15.RELEASE

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1.1462 pretty-format 27.5.1

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1.1463 go-httpheader 0.3.0

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1.1464 aliyun-alibaba-cloud-sdk-go 1.61.1501

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//
// Code generated by Alibaba Cloud SDK Code Generator.
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// DataInQueryLicenses is a nested struct in linkface response
type DataInQueryLicenses struct {
 DataItem []DataItem `json:"DataItem" xml:"DataItem"`
}
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package arms

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import (
 "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"
 "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
)

// DescribeTraceLicenseKey invokes the arms.DescribeTraceLicenseKey API synchronously
func (client *Client) DescribeTraceLicenseKey(request *DescribeTraceLicenseKeyRequest) (response
 *DescribeTraceLicenseKeyResponse, err error) {
 response = CreateDescribeTraceLicenseKeyResponse()
 err = client.DoAction(request, response)
 return
}

// DescribeTraceLicenseKeyWithChan invokes the arms.DescribeTraceLicenseKey API asynchronously
func (client *Client) DescribeTraceLicenseKeyWithChan(request *DescribeTraceLicenseKeyRequest) (<-chan
*DescribeTraceLicenseKeyResponse, <-chan error) {
 responseChan := make(chan *DescribeTraceLicenseKeyResponse, 1)
 errChan := make(chan error, 1)
 err := client.AddAsyncTask(func() {
  defer close(responseChan)
  defer close(errChan)
  response, err := client.DescribeTraceLicenseKey(request)
  if err != nil {
   errChan <- err
  } else {
   responseChan <- response
```

```
  }
 })
 if err != nil {
  errChan <- err
  close(responseChan)
  close(errChan)
 }
 return responseChan, errChan
}

// DescribeTraceLicenseKeyWithCallback invokes the arms.DescribeTraceLicenseKey API asynchronously
func (client *Client) DescribeTraceLicenseKeyWithCallback(request
 *DescribeTraceLicenseKeyRequest, callback func(response *DescribeTraceLicenseKeyResponse, err error)) <-
chan int {
 result := make(chan int, 1)
 err := client.AddAsyncTask(func() {
  var response *DescribeTraceLicenseKeyResponse
  var err error
  defer close(result)
  response, err = client.DescribeTraceLicenseKey(request)
  callback(response, err)
  result <- 1
 })
 if err != nil {
  defer close(result)
  callback(nil, err)
  result <- 0
 }
 return result
}

// DescribeTraceLicenseKeyRequest is the request struct for api DescribeTraceLicenseKey
type DescribeTraceLicenseKeyRequest struct {
 *requests.RpcRequest
}

// DescribeTraceLicenseKeyResponse is the response struct for api DescribeTraceLicenseKey
type DescribeTraceLicenseKeyResponse struct {
 *responses.BaseResponse
 RequestId  string `json:"RequestId" xml:"RequestId"`
 LicenseKey string `json:"LicenseKey" xml:"LicenseKey"`
}

// CreateDescribeTraceLicenseKeyRequest creates a request to invoke DescribeTraceLicenseKey API
func
 CreateDescribeTraceLicenseKeyRequest() (request *DescribeTraceLicenseKeyRequest) {
 request = &DescribeTraceLicenseKeyRequest{
  RpcRequest: &requests.RpcRequest{},
```

```
 }
 request.InitWithApiInfo("ARMS", "2019-08-08", "DescribeTraceLicenseKey", "", "")
 request.Method = requests.POST
 return
}

// CreateDescribeTraceLicenseKeyResponse creates a response to parse from DescribeTraceLicenseKey response
func CreateDescribeTraceLicenseKeyResponse() (response *DescribeTraceLicenseKeyResponse) {
 response = &DescribeTraceLicenseKeyResponse{
  BaseResponse: &responses.BaseResponse{},
 }
 return
}
package ocr

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import (
 "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"
 "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
)

// RecognizeDriverLicense invokes the ocr.RecognizeDriverLicense API synchronously
func (client *Client) RecognizeDriverLicense(request *RecognizeDriverLicenseRequest) (response
*RecognizeDriverLicenseResponse,
 err error) {
 response = CreateRecognizeDriverLicenseResponse()
 err = client.DoAction(request, response)
 return
}

// RecognizeDriverLicenseWithChan invokes the ocr.RecognizeDriverLicense API asynchronously
func (client *Client) RecognizeDriverLicenseWithChan(request *RecognizeDriverLicenseRequest) (<-chan
*RecognizeDriverLicenseResponse, <-chan error) {
 responseChan := make(chan *RecognizeDriverLicenseResponse, 1)
```

```
 errChan := make(chan error, 1)
 err := client.AddAsyncTask(func() {
  defer close(responseChan)
  defer close(errChan)
  response, err := client.RecognizeDriverLicense(request)
  if err != nil {
   errChan <- err
  } else {
   responseChan <- response
  }
 })
 if err != nil {
  errChan <- err
  close(responseChan)
  close(errChan)
 }
 return responseChan, errChan
}

// RecognizeDriverLicenseWithCallback invokes the ocr.RecognizeDriverLicense API asynchronously
func (client *Client) RecognizeDriverLicenseWithCallback(request *RecognizeDriverLicenseRequest,
 callback func(response *RecognizeDriverLicenseResponse, err error)) <-chan int {
 result := make(chan int, 1)
 err := client.AddAsyncTask(func() {
  var response *RecognizeDriverLicenseResponse
  var err error
  defer close(result)
  response, err = client.RecognizeDriverLicense(request)
  callback(response, err)
  result <- 1
 })
 if err != nil {
  defer close(result)
  callback(nil, err)
  result <- 0
 }
 return result
}

// RecognizeDriverLicenseRequest is the request struct for api RecognizeDriverLicense
type RecognizeDriverLicenseRequest struct {
 *requests.RpcRequest
 ImageType requests.Integer `position:"Body" name:"ImageType"`
 Side      string           `position:"Body" name:"Side"`
 ImageURL  string           `position:"Body" name:"ImageURL"`
}

// RecognizeDriverLicenseResponse is the response struct for api RecognizeDriverLicense
```

```
type RecognizeDriverLicenseResponse struct {
 *responses.BaseResponse
 RequestId string `json:"RequestId" xml:"RequestId"`
 Code
     string `json:"Code" xml:"Code"`
 Message   string `json:"Message" xml:"Message"`
 Data      Data   `json:"Data" xml:"Data"`
}

// CreateRecognizeDriverLicenseRequest creates a request to invoke RecognizeDriverLicense API
func CreateRecognizeDriverLicenseRequest() (request *RecognizeDriverLicenseRequest) {
 request = &RecognizeDriverLicenseRequest{
  RpcRequest: &requests.RpcRequest{},
 }
 request.InitWithApiInfo("ocr", "2019-12-30", "RecognizeDriverLicense", "ocr", "openAPI")
 request.Method = requests.POST
 return
}

// CreateRecognizeDriverLicenseResponse creates a response to parse from RecognizeDriverLicense response
func CreateRecognizeDriverLicenseResponse() (response *RecognizeDriverLicenseResponse) {
 response = &RecognizeDriverLicenseResponse{
  BaseResponse: &responses.BaseResponse{},
 }
 return
}
```

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```
   apic.go
   emitterc.go
   parserc.go
   readerc.go
   scannerc.go
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```
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// Code generated by Alibaba Cloud SDK Code Generator.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.

import (
 "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"
 "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
)

// ActivateLicense invokes the market.ActivateLicense API synchronously
// api document: https://help.aliyun.com/api/market/activatelicense.html
func (client *Client) ActivateLicense(request
 *ActivateLicenseRequest) (response *ActivateLicenseResponse, err error) {
 response = CreateActivateLicenseResponse()
 err = client.DoAction(request, response)
 return
}

// ActivateLicenseWithChan invokes the market.ActivateLicense API asynchronously
// api document: https://help.aliyun.com/api/market/activatelicense.html
// asynchronous document: https://help.aliyun.com/document_detail/66220.html
func (client *Client) ActivateLicenseWithChan(request *ActivateLicenseRequest) (<-chan
*ActivateLicenseResponse, <-chan error) {
 responseChan := make(chan *ActivateLicenseResponse, 1)
 errChan := make(chan error, 1)
```

```
 err := client.AddAsyncTask(func() {
  defer close(responseChan)
  defer close(errChan)
  response, err := client.ActivateLicense(request)
  if err != nil {
   errChan <- err
  } else {
   responseChan <- response
  }
 })
 if err != nil {
  errChan <- err
  close(responseChan)
  close(errChan)
 }
 return responseChan, errChan
}

// ActivateLicenseWithCallback invokes
 the market.ActivateLicense API asynchronously
// api document: https://help.aliyun.com/api/market/activatelicense.html
// asynchronous document: https://help.aliyun.com/document_detail/66220.html
func (client *Client) ActivateLicenseWithCallback(request *ActivateLicenseRequest, callback func(response
*ActivateLicenseResponse, err error)) <-chan int {
 result := make(chan int, 1)
 err := client.AddAsyncTask(func() {
  var response *ActivateLicenseResponse
  var err error
  defer close(result)
  response, err = client.ActivateLicense(request)
  callback(response, err)
  result <- 1
 })
 if err != nil {
  defer close(result)
  callback(nil, err)
  result <- 0
 }
 return result
}

// ActivateLicenseRequest is the request struct for api ActivateLicense
type ActivateLicenseRequest struct {
 *requests.RpcRequest
 Identification string `position:"Query" name:"Identification"`
 LicenseCode    string `position:"Query" name:"LicenseCode"`
}
```

```
// ActivateLicenseResponse is the response struct for
 api ActivateLicense
type ActivateLicenseResponse struct {
 *responses.BaseResponse
 RequestId string `json:"RequestId" xml:"RequestId"`
 Success   bool   `json:"Success" xml:"Success"`
}

// CreateActivateLicenseRequest creates a request to invoke ActivateLicense API
func CreateActivateLicenseRequest() (request *ActivateLicenseRequest) {
 request = &ActivateLicenseRequest{
  RpcRequest: &requests.RpcRequest{},
 }
 request.InitWithApiInfo("Market", "2015-11-01", "ActivateLicense", "yunmarket", "openAPI")
 return
}

// CreateActivateLicenseResponse creates a response to parse from ActivateLicense response
func CreateActivateLicenseResponse() (response *ActivateLicenseResponse) {
 response = &ActivateLicenseResponse{
  BaseResponse: &responses.BaseResponse{},
 }
 return
}
```

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 "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
)

// RecognizeLicensePlate invokes the ocr.RecognizeLicensePlate API synchronously
func (client *Client) RecognizeLicensePlate(request *RecognizeLicensePlateRequest) (response
*RecognizeLicensePlateResponse,
 err error) {
 response = CreateRecognizeLicensePlateResponse()
 err = client.DoAction(request, response)
 return
}

// RecognizeLicensePlateWithChan invokes the ocr.RecognizeLicensePlate API asynchronously
func (client *Client) RecognizeLicensePlateWithChan(request *RecognizeLicensePlateRequest) (<-chan
*RecognizeLicensePlateResponse, <-chan error) {
 responseChan := make(chan *RecognizeLicensePlateResponse, 1)
 errChan := make(chan error, 1)
 err := client.AddAsyncTask(func() {
  defer close(responseChan)
  defer close(errChan)
  response, err := client.RecognizeLicensePlate(request)
  if err != nil {
   errChan <- err
  } else {
   responseChan <- response
  }
 })
 if err != nil {
  errChan <- err
  close(responseChan)
  close(errChan)
 }
 return responseChan, errChan
}

// RecognizeLicensePlateWithCallback invokes the ocr.RecognizeLicensePlate API asynchronously
func (client *Client) RecognizeLicensePlateWithCallback(request *RecognizeLicensePlateRequest,
 callback func(response *RecognizeLicensePlateResponse, err error)) <-chan int {
 result := make(chan int, 1)
 err := client.AddAsyncTask(func() {
```

```
  var response *RecognizeLicensePlateResponse
  var err error
  defer close(result)
  response, err = client.RecognizeLicensePlate(request)
  callback(response, err)
  result <- 1
 })
 if err != nil {
  defer close(result)
  callback(nil, err)
  result <- 0
 }
 return result
}

// RecognizeLicensePlateRequest is the request struct for api RecognizeLicensePlate
type RecognizeLicensePlateRequest struct {
 *requests.RpcRequest
 ImageType requests.Integer `position:"Body" name:"ImageType"`
 ImageURL  string           `position:"Body" name:"ImageURL"`
}

// RecognizeLicensePlateResponse is the response struct for api RecognizeLicensePlate
type RecognizeLicensePlateResponse struct {
 *responses.BaseResponse
 RequestId string `json:"RequestId" xml:"RequestId"`
 Code      string `json:"Code" xml:"Code"`
 Message   string `json:"Message" xml:"Message"`
 Data
     Data   `json:"Data" xml:"Data"`
}

// CreateRecognizeLicensePlateRequest creates a request to invoke RecognizeLicensePlate API
func CreateRecognizeLicensePlateRequest() (request *RecognizeLicensePlateRequest) {
 request = &RecognizeLicensePlateRequest{
  RpcRequest: &requests.RpcRequest{},
 }
 request.InitWithApiInfo("ocr", "2019-12-30", "RecognizeLicensePlate", "ocr", "openAPI")
 request.Method = requests.POST
 return
}

// CreateRecognizeLicensePlateResponse creates a response to parse from RecognizeLicensePlate response
func CreateRecognizeLicensePlateResponse() (response *RecognizeLicensePlateResponse) {
 response = &RecognizeLicensePlateResponse{
  BaseResponse: &responses.BaseResponse{},
 }
 return
```

```
}
package ocr

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// PositionsInRecognizeLicensePlate is a nested struct in ocr response
type PositionsInRecognizeLicensePlate struct {
 Positions []Positions `json:"positions" xml:"positions"`
}
```

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// Changes may cause incorrect behavior and will be lost if the code is regenerated.

import (
 "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"
 "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
)

// RecognizeBusinessLicense invokes the ocr.RecognizeBusinessLicense API synchronously
func (client *Client) RecognizeBusinessLicense(request *RecognizeBusinessLicenseRequest) (response
 *RecognizeBusinessLicenseResponse, err error) {
 response = CreateRecognizeBusinessLicenseResponse()
 err = client.DoAction(request, response)
 return
}

// RecognizeBusinessLicenseWithChan invokes the ocr.RecognizeBusinessLicense API asynchronously
func (client *Client) RecognizeBusinessLicenseWithChan(request *RecognizeBusinessLicenseRequest) (<-chan
*RecognizeBusinessLicenseResponse, <-chan error) {
 responseChan := make(chan *RecognizeBusinessLicenseResponse, 1)
 errChan := make(chan error, 1)
 err := client.AddAsyncTask(func() {
  defer close(responseChan)
  defer close(errChan)
  response, err := client.RecognizeBusinessLicense(request)
  if err != nil {
   errChan <- err
  } else {
   responseChan <- response
  }
 })
 if err != nil {
  errChan <- err
  close(responseChan)
  close(errChan)
 }
 return responseChan, errChan
}
```

```
// RecognizeBusinessLicenseWithCallback invokes the ocr.RecognizeBusinessLicense API asynchronously
func (client *Client) RecognizeBusinessLicenseWithCallback(request
 *RecognizeBusinessLicenseRequest, callback func(response *RecognizeBusinessLicenseResponse, err error)) <-
chan int {
 result := make(chan int, 1)
 err := client.AddAsyncTask(func() {
  var response *RecognizeBusinessLicenseResponse
  var err error
  defer close(result)
  response, err = client.RecognizeBusinessLicense(request)
  callback(response, err)
  result <- 1
 })
 if err != nil {
  defer close(result)
  callback(nil, err)
  result <- 0
 }
 return result
}

// RecognizeBusinessLicenseRequest is the request struct for api RecognizeBusinessLicense
type RecognizeBusinessLicenseRequest struct {
 *requests.RpcRequest
 ImageType requests.Integer `position:"Body" name:"ImageType"`
 ImageURL  string           `position:"Body" name:"ImageURL"`
}

// RecognizeBusinessLicenseResponse is the response struct for api RecognizeBusinessLicense
type RecognizeBusinessLicenseResponse struct {
 *responses.BaseResponse
 RequestId string `json:"RequestId" xml:"RequestId"`
 Data      Data
   `json:"Data" xml:"Data"`
}

// CreateRecognizeBusinessLicenseRequest creates a request to invoke RecognizeBusinessLicense API
func CreateRecognizeBusinessLicenseRequest() (request *RecognizeBusinessLicenseRequest) {
 request = &RecognizeBusinessLicenseRequest{
  RpcRequest: &requests.RpcRequest{},
 }
 request.InitWithApiInfo("ocr", "2019-12-30", "RecognizeBusinessLicense", "ocr", "openAPI")
 request.Method = requests.POST
 return
}

// CreateRecognizeBusinessLicenseResponse creates a response to parse from RecognizeBusinessLicense response
```

```
func CreateRecognizeBusinessLicenseResponse() (response *RecognizeBusinessLicenseResponse) {
 response = &RecognizeBusinessLicenseResponse{
  BaseResponse: &responses.BaseResponse{},
 }
 return
}
package linkface

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//
// Code generated by Alibaba Cloud SDK Code Generator.
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import (
 "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"
 "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
)

// QueryLicenses invokes the linkface.QueryLicenses API synchronously
// api document: https://help.aliyun.com/api/linkface/querylicenses.html
func (client *Client) QueryLicenses(request
 *QueryLicensesRequest) (response *QueryLicensesResponse, err error) {
 response = CreateQueryLicensesResponse()
 err = client.DoAction(request, response)
 return
}

// QueryLicensesWithChan invokes the linkface.QueryLicenses API asynchronously
// api document: https://help.aliyun.com/api/linkface/querylicenses.html
// asynchronous document: https://help.aliyun.com/document_detail/66220.html
func (client *Client) QueryLicensesWithChan(request *QueryLicensesRequest) (<-chan *QueryLicensesResponse,
<-chan error) {
 responseChan := make(chan *QueryLicensesResponse, 1)
 errChan := make(chan error, 1)
 err := client.AddAsyncTask(func() {
  defer close(responseChan)
  defer close(errChan)
  response, err := client.QueryLicenses(request)
```

```
  if err != nil {
   errChan <- err
  } else {
   responseChan <- response
  }
 })
 if err != nil {
  errChan <- err
  close(responseChan)
  close(errChan)
 }
 return responseChan, errChan
}

// QueryLicensesWithCallback invokes the linkface.QueryLicenses
 API asynchronously
// api document: https://help.aliyun.com/api/linkface/querylicenses.html
// asynchronous document: https://help.aliyun.com/document_detail/66220.html
func (client *Client) QueryLicensesWithCallback(request *QueryLicensesRequest, callback func(response
*QueryLicensesResponse, err error)) <-chan int {
 result := make(chan int, 1)
 err := client.AddAsyncTask(func() {
  var response *QueryLicensesResponse
  var err error
  defer close(result)
  response, err = client.QueryLicenses(request)
  callback(response, err)
  result <- 1
 })
 if err != nil {
  defer close(result)
  callback(nil, err)
  result <- 0
 }
 return result
}

// QueryLicensesRequest is the request struct for api QueryLicenses
type QueryLicensesRequest struct {
 *requests.RpcRequest
 LicenseType requests.Integer `position:"Body" name:"LicenseType"`
 PageSize    requests.Integer `position:"Body" name:"PageSize"`
 CurrentPage requests.Integer `position:"Body" name:"CurrentPage"`
}

// QueryLicensesResponse
 is the response struct for api QueryLicenses
type QueryLicensesResponse struct {
```

```
 *responses.BaseResponse
 RequestId string     `json:"RequestId" xml:"RequestId"`
 Code      int        `json:"Code" xml:"Code"`
 Message   string     `json:"Message" xml:"Message"`
 PageCount int        `json:"PageCount" xml:"PageCount"`
 PageSize  int        `json:"PageSize" xml:"PageSize"`
 Page      int        `json:"Page" xml:"Page"`
 Total     int        `json:"Total" xml:"Total"`
 Success   bool       `json:"Success" xml:"Success"`
 Data      []DataItem `json:"Data" xml:"Data"`
}

// CreateQueryLicensesRequest creates a request to invoke QueryLicenses API
func CreateQueryLicensesRequest() (request *QueryLicensesRequest) {
 request = &QueryLicensesRequest{
  RpcRequest: &requests.RpcRequest{},
 }
 request.InitWithApiInfo("LinkFace", "2018-07-20", "QueryLicenses", "", "")
 return
}

// CreateQueryLicensesResponse creates a response to parse from QueryLicenses response
func CreateQueryLicensesResponse()
 (response *QueryLicensesResponse) {
 response = &QueryLicensesResponse{
  BaseResponse: &responses.BaseResponse{},
 }
 return
}
package imm

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//
// Code generated by Alibaba Cloud SDK Code Generator.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.

import (
 "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"
```

```
 "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
)

// GetDRMLicense invokes the imm.GetDRMLicense API synchronously
func (client *Client) GetDRMLicense(request *GetDRMLicenseRequest) (response *GetDRMLicenseResponse, err
error) {
 response
 = CreateGetDRMLicenseResponse()
 err = client.DoAction(request, response)
 return
}

// GetDRMLicenseWithChan invokes the imm.GetDRMLicense API asynchronously
func (client *Client) GetDRMLicenseWithChan(request *GetDRMLicenseRequest) (<-chan
*GetDRMLicenseResponse, <-chan error) {
 responseChan := make(chan *GetDRMLicenseResponse, 1)
 errChan := make(chan error, 1)
 err := client.AddAsyncTask(func() {
  defer close(responseChan)
  defer close(errChan)
  response, err := client.GetDRMLicense(request)
  if err != nil {
   errChan <- err
  } else {
   responseChan <- response
  }
 })
 if err != nil {
  errChan <- err
  close(responseChan)
  close(errChan)
 }
 return responseChan, errChan
}

// GetDRMLicenseWithCallback invokes the imm.GetDRMLicense API asynchronously
func (client *Client) GetDRMLicenseWithCallback(request *GetDRMLicenseRequest, callback func(response
*GetDRMLicenseResponse, err error)) <-chan int {
 result := make(chan int, 1)
 err := client.AddAsyncTask(func()
 {
  var response *GetDRMLicenseResponse
  var err error
  defer close(result)
  response, err = client.GetDRMLicense(request)
  callback(response, err)
  result <- 1
 })
```

```
 if err != nil {
  defer close(result)
  callback(nil, err)
  result <- 0
 }
 return result
}

// GetDRMLicenseRequest is the request struct for api GetDRMLicense
type GetDRMLicenseRequest struct {
 *requests.RpcRequest
 Project    string `position:"Query" name:"Project"`
 DRMType    string `position:"Query" name:"DRMType"`
 DRMLicense string `position:"Query" name:"DRMLicense"`
}

// GetDRMLicenseResponse is the response struct for api GetDRMLicense
type GetDRMLicenseResponse struct {
 *responses.BaseResponse
 RequestId  string `json:"RequestId" xml:"RequestId"`
 DeviceInfo string `json:"DeviceInfo" xml:"DeviceInfo"`
 DRMData    string `json:"DRMData" xml:"DRMData"`
}

// CreateGetDRMLicenseRequest creates a request to invoke GetDRMLicense API
func CreateGetDRMLicenseRequest() (request *GetDRMLicenseRequest) {
 request
 = &GetDRMLicenseRequest{
  RpcRequest: &requests.RpcRequest{},
 }
 request.InitWithApiInfo("imm", "2017-09-06", "GetDRMLicense", "imm", "openAPI")
 request.Method = requests.POST
 return
}

// CreateGetDRMLicenseResponse creates a response to parse from GetDRMLicense response
func CreateGetDRMLicenseResponse() (response *GetDRMLicenseResponse) {
 response = &GetDRMLicenseResponse{
  BaseResponse: &responses.BaseResponse{},
 }
 return
}
```

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package market

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import (
 "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"
 "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
)

// DescribeLicense invokes the market.DescribeLicense API synchronously
// api document: https://help.aliyun.com/api/market/describelicense.html
func (client *Client) DescribeLicense(request
 *DescribeLicenseRequest) (response *DescribeLicenseResponse, err error) {
 response = CreateDescribeLicenseResponse()
 err = client.DoAction(request, response)
 return
}

// DescribeLicenseWithChan invokes the market.DescribeLicense API asynchronously
// api document: https://help.aliyun.com/api/market/describelicense.html
// asynchronous document: https://help.aliyun.com/document_detail/66220.html
func (client *Client) DescribeLicenseWithChan(request *DescribeLicenseRequest) (<-chan
*DescribeLicenseResponse, <-chan error) {
 responseChan := make(chan *DescribeLicenseResponse, 1)
 errChan := make(chan error, 1)
 err := client.AddAsyncTask(func() {
  defer close(responseChan)
  defer close(errChan)
  response, err := client.DescribeLicense(request)
  if err != nil {
   errChan <- err
  } else {
   responseChan <- response
  }
 })
 if err != nil {
  errChan <- err
  close(responseChan)
  close(errChan)
 }
 return responseChan, errChan
}

// DescribeLicenseWithCallback invokes
```

```
 the market.DescribeLicense API asynchronously
// api document: https://help.aliyun.com/api/market/describelicense.html
// asynchronous document: https://help.aliyun.com/document_detail/66220.html
func (client *Client) DescribeLicenseWithCallback(request *DescribeLicenseRequest, callback func(response
*DescribeLicenseResponse, err error)) <-chan int {
 result := make(chan int, 1)
 err := client.AddAsyncTask(func() {
  var response *DescribeLicenseResponse
  var err error
  defer close(result)
  response, err = client.DescribeLicense(request)
  callback(response, err)
  result <- 1
 })
 if err != nil {
  defer close(result)
  callback(nil, err)
  result <- 0
 }
 return result
}

// DescribeLicenseRequest is the request struct for api DescribeLicense
type DescribeLicenseRequest struct {
 *requests.RpcRequest
 LicenseCode string `position:"Query" name:"LicenseCode"`
}

// DescribeLicenseResponse is the response struct for api DescribeLicense
type DescribeLicenseResponse struct {
 *responses.BaseResponse
 RequestId
 string  `json:"RequestId" xml:"RequestId"`
 License   License `json:"License" xml:"License"`
}

// CreateDescribeLicenseRequest creates a request to invoke DescribeLicense API
func CreateDescribeLicenseRequest() (request *DescribeLicenseRequest) {
 request = &DescribeLicenseRequest{
  RpcRequest: &requests.RpcRequest{},
 }
 request.InitWithApiInfo("Market", "2015-11-01", "DescribeLicense", "yunmarket", "openAPI")
 return
}

// CreateDescribeLicenseResponse creates a response to parse from DescribeLicense response
func CreateDescribeLicenseResponse() (response *DescribeLicenseResponse) {
 response = &DescribeLicenseResponse{
```

```
  BaseResponse: &responses.BaseResponse{},
 }
 return
}
```

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```
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//
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// License is a nested struct in market response
type License struct {
 LicenseStatus string      `json:"LicenseStatus" xml:"LicenseStatus"`
 LicenseCode   string      `json:"LicenseCode" xml:"LicenseCode"`
 InstanceId    string      `json:"InstanceId" xml:"InstanceId"`
 CreateTime    string      `json:"CreateTime"
```

xml:"CreateTime"`
ExpiredTime string `json:"ExpiredTime" xml:"ExpiredTime"`
ActivateTime string `json:"ActivateTime" xml:"ActivateTime"`
ProductSkuId string `json:"ProductSkuId" xml:"ProductSkuId"`
ProductCode string `json:"ProductCode" xml:"ProductCode"`
ProductName string `json:"ProductName" xml:"ProductName"`
SupplierName string `json:"SupplierName" xml:"SupplierName"`
ExtendInfo ExtendInfo `json:"ExtendInfo" xml:"ExtendInfo"`
ExtendArray ExtendArray `json:"ExtendArray" xml:"ExtendArray"`
}

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```
// Changes may cause incorrect behavior and will be lost if the code is regenerated.

// LicenseAttribute is a nested struct in market response
type LicenseAttribute struct {
 Code  string `json:"Code" xml:"Code"`
 Value string `json:"Value" xml:"Value"`
}
```

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import (
 "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"
 "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
)

// GetUserLicense invokes the linkwan.GetUserLicense API synchronously
```

```
func (client *Client) GetUserLicense(request *GetUserLicenseRequest) (response *GetUserLicenseResponse,
 err error) {
 response = CreateGetUserLicenseResponse()
 err = client.DoAction(request, response)
 return
}

// GetUserLicenseWithChan invokes the linkwan.GetUserLicense API asynchronously
func (client *Client) GetUserLicenseWithChan(request *GetUserLicenseRequest) (<-chan
*GetUserLicenseResponse, <-chan error) {
 responseChan := make(chan *GetUserLicenseResponse, 1)
 errChan := make(chan error, 1)
 err := client.AddAsyncTask(func() {
  defer close(responseChan)
  defer close(errChan)
  response, err := client.GetUserLicense(request)
  if err != nil {
   errChan <- err
  } else {
   responseChan <- response
  }
 })
 if err != nil {
  errChan <- err
  close(responseChan)
  close(errChan)
 }
 return responseChan, errChan
}

// GetUserLicenseWithCallback invokes the linkwan.GetUserLicense API asynchronously
func (client *Client) GetUserLicenseWithCallback(request *GetUserLicenseRequest, callback func(response
*GetUserLicenseResponse, err error)) <-chan int {
 result := make(chan int, 1)
 err
 := client.AddAsyncTask(func() {
  var response *GetUserLicenseResponse
  var err error
  defer close(result)
  response, err = client.GetUserLicense(request)
  callback(response, err)
  result <- 1
 })
 if err != nil {
  defer close(result)
  callback(nil, err)
  result <- 0
 }
```

```
 return result
}

// GetUserLicenseRequest is the request struct for api GetUserLicense
type GetUserLicenseRequest struct {
 *requests.RpcRequest
 ApiProduct  string `position:"Body" name:"ApiProduct"`
 ApiRevision string `position:"Body" name:"ApiRevision"`
}

// GetUserLicenseResponse is the response struct for api GetUserLicense
type GetUserLicenseResponse struct {
 *responses.BaseResponse
 Success   bool   `json:"Success" xml:"Success"`
 RequestId string `json:"RequestId" xml:"RequestId"`
 Data      Data   `json:"Data" xml:"Data"`
}

// CreateGetUserLicenseRequest creates a request to invoke GetUserLicense API
func CreateGetUserLicenseRequest() (request *GetUserLicenseRequest) {
 request = &GetUserLicenseRequest{
  RpcRequest:
 &requests.RpcRequest{},
 }
 request.InitWithApiInfo("LinkWAN", "2019-03-01", "GetUserLicense", "linkwan", "openAPI")
 request.Method = requests.POST
 return
}

// CreateGetUserLicenseResponse creates a response to parse from GetUserLicense response
func CreateGetUserLicenseResponse() (response *GetUserLicenseResponse) {
 response = &GetUserLicenseResponse{
  BaseResponse: &responses.BaseResponse{},
 }
 return
}
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)

// GetLicense invokes the mts.GetLicense API synchronously
func (client *Client) GetLicense(request *GetLicenseRequest) (response *GetLicenseResponse, err error) {
 response = CreateGetLicenseResponse()
 err
 = client.DoAction(request, response)
 return
}

// GetLicenseWithChan invokes the mts.GetLicense API asynchronously
func (client *Client) GetLicenseWithChan(request *GetLicenseRequest) (<-chan *GetLicenseResponse, <-chan
error) {
 responseChan := make(chan *GetLicenseResponse, 1)
 errChan := make(chan error, 1)
 err := client.AddAsyncTask(func() {
  defer close(responseChan)
  defer close(errChan)
  response, err := client.GetLicense(request)
  if err != nil {
   errChan <- err
  } else {
   responseChan <- response
  }
 })
 if err != nil {
  errChan <- err
  close(responseChan)
  close(errChan)
 }
 return responseChan, errChan
}

// GetLicenseWithCallback invokes the mts.GetLicense API asynchronously
func (client *Client) GetLicenseWithCallback(request *GetLicenseRequest, callback func(response
*GetLicenseResponse, err error)) <-chan int {
 result := make(chan int, 1)
 err := client.AddAsyncTask(func() {
  var response *GetLicenseResponse
  var err error
```

```
 defer
close(result)
 response, err = client.GetLicense(request)
 callback(response, err)
 result <- 1
})
if err != nil {
 defer close(result)
 callback(nil, err)
 result <- 0
}
return result
}

// GetLicenseRequest is the request struct for api GetLicense
type GetLicenseRequest struct {
 *requests.RpcRequest
 ResourceOwnerId      string `position:"Query" name:"ResourceOwnerId"`
 Data                 string `position:"Query" name:"Data"`
 Type                 string `position:"Query" name:"Type"`
 ResourceOwnerAccount string `position:"Query" name:"ResourceOwnerAccount"`
 OwnerAccount         string `position:"Query" name:"OwnerAccount"`
 OwnerId              string `position:"Query" name:"OwnerId"`
 MediaId              string `position:"Query" name:"MediaId"`
 Header               string `position:"Query" name:"Header"`
 LicenseUrl           string `position:"Query" name:"LicenseUrl"`
}

// GetLicenseResponse is the response struct for api GetLicense
type GetLicenseResponse
 struct {
 *responses.BaseResponse
 RequestId string `json:"RequestId" xml:"RequestId"`
 License   string `json:"License" xml:"License"`
}

// CreateGetLicenseRequest creates a request to invoke GetLicense API
func CreateGetLicenseRequest() (request *GetLicenseRequest) {
 request = &GetLicenseRequest{
  RpcRequest: &requests.RpcRequest{},
 }
 request.InitWithApiInfo("Mts", "2014-06-18", "GetLicense", "mts", "openAPI")
 request.Method = requests.POST
 return
}

// CreateGetLicenseResponse creates a response to parse from GetLicense response
func CreateGetLicenseResponse() (response *GetLicenseResponse) {
```

```
 response = &GetLicenseResponse{
  BaseResponse: &responses.BaseResponse{},
 }
 return
}
```

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```
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import (
 "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"
 "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
)
```

```
// RecognizeDrivingLicense invokes the ocr.RecognizeDrivingLicense API synchronously
func (client *Client) RecognizeDrivingLicense(request *RecognizeDrivingLicenseRequest) (response
 *RecognizeDrivingLicenseResponse, err error) {
 response = CreateRecognizeDrivingLicenseResponse()
 err = client.DoAction(request, response)
 return
}

// RecognizeDrivingLicenseWithChan invokes the ocr.RecognizeDrivingLicense API asynchronously
func (client *Client) RecognizeDrivingLicenseWithChan(request *RecognizeDrivingLicenseRequest) (<-chan
*RecognizeDrivingLicenseResponse, <-chan error) {
 responseChan := make(chan *RecognizeDrivingLicenseResponse, 1)
 errChan := make(chan error, 1)
 err := client.AddAsyncTask(func() {
  defer close(responseChan)
  defer close(errChan)
  response, err := client.RecognizeDrivingLicense(request)
  if err != nil {
   errChan <- err
  } else {
   responseChan <- response
  }
 })
 if err != nil {
  errChan <- err
  close(responseChan)
  close(errChan)
 }
 return responseChan, errChan
}

// RecognizeDrivingLicenseWithCallback invokes the ocr.RecognizeDrivingLicense API asynchronously
func (client *Client) RecognizeDrivingLicenseWithCallback(request
 *RecognizeDrivingLicenseRequest, callback func(response *RecognizeDrivingLicenseResponse, err error)) <-chan
int {
 result := make(chan int, 1)
 err := client.AddAsyncTask(func() {
  var response *RecognizeDrivingLicenseResponse
  var err error
  defer close(result)
  response, err = client.RecognizeDrivingLicense(request)
  callback(response, err)
  result <- 1
 })
 if err != nil {
  defer close(result)
  callback(nil, err)
```

```
 result <- 0
 }
 return result
}

// RecognizeDrivingLicenseRequest is the request struct for api RecognizeDrivingLicense
type RecognizeDrivingLicenseRequest struct {
 *requests.RpcRequest
 ImageType requests.Integer `position:"Body" name:"ImageType"`
 Side      string          `position:"Body" name:"Side"`
 ImageURL  string          `position:"Body" name:"ImageURL"`
}

// RecognizeDrivingLicenseResponse is the response struct for api RecognizeDrivingLicense
type RecognizeDrivingLicenseResponse struct {
 *responses.BaseResponse
 RequestId string `json:"RequestId"
 xml:"RequestId"`
 Data      Data   `json:"Data" xml:"Data"`
}

// CreateRecognizeDrivingLicenseRequest creates a request to invoke RecognizeDrivingLicense API
func CreateRecognizeDrivingLicenseRequest() (request *RecognizeDrivingLicenseRequest) {
 request = &RecognizeDrivingLicenseRequest{
  RpcRequest: &requests.RpcRequest{},
 }
 request.InitWithApiInfo("ocr", "2019-12-30", "RecognizeDrivingLicense", "ocr", "openAPI")
 request.Method = requests.POST
 return
}

// CreateRecognizeDrivingLicenseResponse creates a response to parse from RecognizeDrivingLicense response
func CreateRecognizeDrivingLicenseResponse() (response *RecognizeDrivingLicenseResponse) {
 response = &RecognizeDrivingLicenseResponse{
  BaseResponse: &responses.BaseResponse{},
 }
 return
}
```

1.1465 aws-sdk-go-base 0.7.1

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1.1466 metrics 4.1.12.1

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1.1467 postcss-unique-selectors 5.1.1

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That's all there is to it!

1.1491 snake-yaml 2.3

1.1491.1 Available under license :

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```
Manifest-Version: 1.0
Automatic-Module-Name: org.snakeyaml.engine.v2
Bnd-LastModified: 1618842641913
Build-Jdk: 11.0.10
Built-By: somov
Bundle-Description: Core YAML 1.2 parser and emitter for Java
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: SnakeYAML Engine
Bundle-SymbolicName: org.snakeyaml.engine
Bundle-Version: 2.3.0
Created-By: Apache Maven Bundle Plugin
Export-Package: org.snakeyaml.engine.v2.api;version="2.3",org.snakeyam
l.engine.v2.api.lowlevel;version="2.3",org.snakeyaml.engine.v2.commen
ts;version="2.3",org.snakeyaml.engine.v2.common;version="2.3",org.sna
keyaml.engine.v2.composer;version="2.3",org.snakeyaml.engine.v2.const
ructor;version="2.3",org.snakeyaml.engine.v2.emitter;version="2.3",or
g.snakeyaml.engine.v2.env;version="2.3",org.snakeyaml.engine.v2.event
s;version="2.3",org.snakeyaml.engine.v2.exceptions;version="2.3",org.
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 r;version="2.3",org.snakeyaml.engine.v2.representer;version="2.3",org
.snakeyaml.engine.v2.resolver;version="2.3",org.snakeyaml.engine.v2.s
canner;version="2.3",org.snakeyaml.engine.v2.serializer;version="2.3"
,org.snakeyaml.engine.v2.tokens;version="2.3"
Import-Package: org.snakeyaml.engine.v2.api;version="[2.3,3)",org.snak
eyaml.engine.v2.comments;version="[2.3,3)",org.snakeyaml.engine.v2.co
mposer;version="[2.3,3)",org.snakeyaml.engine.v2.constructor;version=
"[2.3,3)",org.snakeyaml.engine.v2.emitter;version="[2.3,3)",org.snake
yaml.engine.v2.env;version="[2.3,3)",org.snakeyaml.engine.v2.events;v
ersion="[2.3,3)",org.snakeyaml.engine.v2.exceptions;version="[2.3,3)"
```

,org.snakeyaml.engine.v2.nodes;version="[2.3,3)",org.snakeyaml.engine
.v2.parser;version="[2.3,3)",org.snakeyaml.engine.v2.representer;vers
ion="[2.3,3)",org.snakeyaml.engine.v2.resolver;version="[2.3,3)",org.
snakeyaml.engine.v2.scanner;version="[2.3,3)",org.snakeyaml.engine.v2
.serializer;version="[2.3,3)",org.snakeyaml.engine.v2.tokens;version=
"[2.3,3)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-4.2.0.201903051501

Found in path(s):
* /opt/cola/permits/1291285488_1660068950.2278726/0/snakeyaml-engine-2-3-jar/META-INF/MANIFEST.MF
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1.1492 github.com/golang-jwt/jwt/v4 4.2.0

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1.1493 x-time-rate 0.0.0-20220210224613-90d013bbcef8

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1.1494 go-autorest 0.11.24

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1.1495 github.com/simonpasquier/klog-gokit 0.3.0

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1.1496 github.com/antchfx/xmlquery 1.3.9

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1.1497 domhandler 4.3.1

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1.1498 string-prototype-matchall 4.0.7

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1.1499 micromatch 4.0.5

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1.1500 tsconfig-paths 3.14.1

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1.1501 types-babel-core 7.1.19

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1.1502 zap 1.21.0

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1.1503 github.com/facebookgo/clock 0.0.0-20150410010913-600d898af40a

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1.1504 @babel/plugin-syntax-class-static-block 7.14.5

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1.1505 @babel/plugin-syntax-private-property-in-object 7.14.5

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1.1506 babel-plugin-syntax-top-level-await 7.14.5

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1.1507 node-forge 1.3.1

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* /opt/cola/permits/1300661297_1649159390.02/0/jline-style-3-21-0-sources-jar/org/jline/style/StyleBundle.java
* /opt/cola/permits/1300661297_1649159390.02/0/jline-style-3-21-0-sources-jar/org/jline/style/InterpolationHelper.java
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* /opt/cola/permits/1300661297_1649159390.02/0/jline-style-3-21-0-sources-jar/org/jline/style/Styler.java
* /opt/cola/permits/1300661297_1649159390.02/0/jline-style-3-21-0-sources-jar/org/jline/style/StyleExpression.java

1.1521 jline-terminal-jna 3.21.0

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* /opt/cola/permits/1300661276_1649159191.05/0/jline-terminal-jna-3-21-0-sources-jar/org/jline/terminal/impl/jna/osx/CLibrary.java
* /opt/cola/permits/1300661276_1649159191.05/0/jline-terminal-jna-3-21-0-sources-jar/org/jline/terminal/impl/jna/linux/LinuxNativePty.java
* /opt/cola/permits/1300661276_1649159191.05/0/jline-terminal-jna-3-21-0-sources-

jar/org/jline/terminal/impl/jna/freebsd/CLibrary.java
* /opt/cola/permits/1300661276_1649159191.05/0/jline-terminal-jna-3-21-0-sources-jar/org/jline/terminal/impl/jna/JnaNativePty.java
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 /opt/cola/permits/1300661276_1649159191.05/0/jline-terminal-jna-3-21-0-sources-jar/org/jline/terminal/impl/jna/linux/CLibrary.java
* /opt/cola/permits/1300661276_1649159191.05/0/jline-terminal-jna-3-21-0-sources-jar/org/jline/terminal/impl/jna/win/JnaWinSysTerminal.java
* /opt/cola/permits/1300661276_1649159191.05/0/jline-terminal-jna-3-21-0-sources-jar/org/jline/terminal/impl/jna/JnaSupportImpl.java
* /opt/cola/permits/1300661276_1649159191.05/0/jline-terminal-jna-3-21-0-sources-jar/org/jline/terminal/impl/jna/freebsd/FreeBsdNativePty.java
* /opt/cola/permits/1300661276_1649159191.05/0/jline-terminal-jna-3-21-0-sources-jar/org/jline/terminal/impl/jna/osx/OsXNativePty.java
* /opt/cola/permits/1300661276_1649159191.05/0/jline-terminal-jna-3-21-0-sources-jar/org/jline/terminal/impl/jna/solaris/SolarisNativePty.java
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1.1522 jline-terminal 3.21.0

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* /opt/cola/permits/1300661635_1649159160.35/0/jline-terminal-3-21-0-sources-jar/org/jline/utils/InfoCmp.java
* /opt/cola/permits/1300661635_1649159160.35/0/jline-terminal-3-21-0-sources-jar/org/jline/terminal/impl/AbstractPty.java
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deepskyblue4b
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thistle1
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* /opt/cola/permits/1300661635_1649159160.35/0/jline-terminal-3-21-0-sources-jar/org/jline/utils/Levenshtein.java
* /opt/cola/permits/1300661635_1649159160.35/0/jline-terminal-3-21-0-sources-jar/org/jline/utils/ShutdownHooks.java
* /opt/cola/permits/1300661635_1649159160.35/0/jline-terminal-3-21-0-sources-jar/org/jline/terminal/Cursor.java
* /opt/cola/permits/1300661635_1649159160.35/0/jline-terminal-3-21-0-sources-jar/org/jline/terminal/impl/AbstractPosixTerminal.java
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* /opt/cola/permits/1300661635_1649159160.35/0/jline-terminal-3-21-0-sources-jar/org/jline/utils/OSUtils.java
* /opt/cola/permits/1300661635_1649159160.35/0/jline-terminal-3-21-0-sources-jar/org/jline/terminal/spi/Pty.java
* /opt/cola/permits/1300661635_1649159160.35/0/jline-terminal-3-21-0-sources-jar/org/jline/utils/package-info.java
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* /opt/cola/permits/1300661635_1649159160.35/0/jline-terminal-3-21-0-sources-jar/org/jline/terminal/MouseEvent.java
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jar/org/jline/terminal/Terminal.java
* /opt/cola/permits/1300661635_1649159160.35/0/jline-terminal-3-21-0-sources-jar/org/jline/utils/NonBlocking.java
* /opt/cola/permits/1300661635_1649159160.35/0/jline-terminal-3-21-0-sources-jar/org/jline/terminal/impl/PosixPtyTerminal.java
* /opt/cola/permits/1300661635_1649159160.35/0/jline-terminal-3-21-0-sources-jar/org/jline/utils/Curses.java
* /opt/cola/permits/1300661635_1649159160.35/0/jline-terminal-3-21-0-sources-jar/org/jline/terminal/impl/LineDisciplineTerminal.java
* /opt/cola/permits/1300661635_1649159160.35/0/jline-terminal-3-21-0-sources-jar/org/jline/utils/StyleResolver.java
* /opt/cola/permits/1300661635_1649159160.35/0/jline-terminal-3-21-0-sources-jar/org/jline/utils/AttributedStringBuilder.java
* /opt/cola/permits/1300661635_1649159160.35/0/jline-terminal-3-21-0-sources-jar/org/jline/utils/NonBlockingInputStreamImpl.java
* /opt/cola/permits/1300661635_1649159160.35/0/jline-terminal-3-21-0-sources-jar/org/jline/terminal/impl/DumbTerminal.java
* /opt/cola/permits/1300661635_1649159160.35/0/jline-terminal-3-21-0-sources-jar/org/jline/terminal/Size.java
* /opt/cola/permits/1300661635_1649159160.35/0/jline-terminal-3-21-0-sources-jar/org/jline/utils/NonBlockingReader.java
* /opt/cola/permits/1300661635_1649159160.35/0/jline-terminal-3-21-0-sources-jar/org/jline/utils/NonBlockingInputStream.java
* /opt/cola/permits/1300661635_1649159160.35/0/jline-terminal-3-21-0-sources-jar/org/jline/utils/Colors.java
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* /opt/cola/permits/1300661635_1649159160.35/0/jline-terminal-3-21-0-sources-jar/org/jline/utils/Signals.java
* /opt/cola/permits/1300661635_1649159160.35/0/jline-terminal-3-21-0-sources-jar/org/jline/utils/Display.java
* /opt/cola/permits/1300661635_1649159160.35/0/jline-terminal-3-21-0-sources-jar/org/jline/utils/Log.java
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* /opt/cola/permits/1300661635_1649159160.35/0/jline-terminal-3-21-0-sources-jar/org/jline/terminal/impl/AbstractWindowsConsoleWriter.java
* /opt/cola/permits/1300661635_1649159160.35/0/jline-terminal-3-21-0-sources-jar/org/jline/utils/WriterOutputStream.java
* /opt/cola/permits/1300661635_1649159160.35/0/jline-terminal-3-21-0-sources-jar/org/jline/utils/NonBlockingPumpReader.java
* /opt/cola/permits/1300661635_1649159160.35/0/jline-terminal-3-21-0-sources-jar/org/jline/utils/PumpReader.java
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auto_right_margin, am, am
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ceol_standout_glitch, xhp, xs
col_addr_glitch, xhpa, YA
cpi_changes_res, cpix, YF
cr_cancels_micro_mode, crxm, YB
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prtr_silent, mc5i, 5i
row_addr_glitch, xvpa, YD
semi_auto_right_margin, sam, YE
status_line_esc_ok, eslok, es
tilde_glitch, hz, hz
transparent_underline, ul, ul
xon_xoff, xon, xo
columns, cols, co
init_tabs, it, it
label_height, lh, lh
label_width, lw, lw
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magic_cookie_glitch, xmc, sg
max_attributes, ma, ma
max_colors, colors, Co
max_pairs, pairs, pa
maximum_windows, wnum, MW
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num_labels, nlab, Nl
padding_baud_rate, pb, pb
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width_status_line, wsl, ws
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output_res_line, orl, Yj
output_res_vert_inch,
orvi, Yl
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acs_chars, acsc, ac
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bell, bel, bl
carriage_return, cr, cr
change_char_pitch, cpi, ZA
change_line_pitch, lpi, ZB
change_res_horz, chr, ZC
change_res_vert, cvr, ZD
change_scroll_region, csr, cs
char_padding, rmp, rP
clear_all_tabs, tbc, ct
clear_margins, mgc, MC
clear_screen, clear, cl
clr_bol, el1, cb
clr_eol, el, ce
clr_eos, ed, cd
column_address, hpa, ch
command_character, cmdch, CC
create_window, cwin, CW

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cursor_down, cud1, do
cursor_home, home, ho
cursor_invisible, civis, vi
cursor_left, cub1, le
cursor_mem_address, mrcup, CM
cursor_normal, cnorm, ve
cursor_right, cuf1, nd
cursor_to_ll, ll, ll
cursor_up, cuu1, up
cursor_visible, cvvis, vs
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delete_character, dch1, dc
delete_line, dl1, dl
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dis_status_line, dsl, ds
display_clock, dclk, DK
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ena_acs, enacs, eA
enter_alt_charset_mode, smacs, as
enter_am_mode, smam,
SA
enter_blink_mode, blink, mb
enter_bold_mode, bold, md
enter_ca_mode, smcup, ti
enter_delete_mode, smdc, dm
enter_dim_mode, dim, mh
enter_doublewide_mode, swidm, ZF
enter_draft_quality, sdrfq, ZG
enter_insert_mode, smir, im
enter_italics_mode, sitm, ZH
enter_leftward_mode, slm, ZI
enter_micro_mode, smicm, ZJ
enter_near_letter_quality, snlq, ZK
enter_normal_quality, snrmq, ZL
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enter_shadow_mode, sshm, ZM
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enter_subscript_mode, ssubm, ZN
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enter_underline_mode, smul, us
enter_upward_mode, sum, ZP
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exit_am_mode, rmam, RA

exit_attribute_mode, sgr0, me
exit_ca_mode, rmcup, te
exit_delete_mode, rmdc, ed
exit_doublewide_mode, rwidm, ZQ
exit_insert_mode, rmir, ei
exit_italics_mode, ritm, ZR
exit_leftward_mode, rlm, ZS
exit_micro_mode, rmicm, ZT
exit_shadow_mode, rshm,
ZU
exit_standout_mode, rmso, se
exit_subscript_mode, rsubm, ZV
exit_superscript_mode, rsupm, ZW
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goto_window, wingo, WG
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init_3string, is3, i3
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init_prog, iprog, iP
initialize_color, initc, Ic
initialize_pair, initp, Ip
insert_character, ich1, ic
insert_line, il1, al
insert_padding, ip, ip
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key_a3, ka3, K3
key_b2, kb2, K2
key_backspace, kbs, kb
key_beg, kbeg, @1
key_btab, kcbt, kB
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key_c3, kc3, K5
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key_f13, kf13, F3
key_f14, kf14, F4
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key_f17, kf17, F7
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key_f2, kf2, k2
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key_f22, kf22, FC
key_f23, kf23, FD
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key_f39, kf39, FT
key_f4, kf4, k4
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key_ic, kich1, kI
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key_previous, kprv, %8
key_print, kprt, %9
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key_scommand, kCMD, *1
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kMSG, %a
key_smove, kMOV, %b
key_snext, kNXT, %c
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key_sprint, kPRT, %f
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key_sredo, kRDO, %g
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key_sright, kRIT, %i
key_srsume, kRES, %j
key_ssave, kSAV, !1
key_ssuspend, kSPD, !2
key_stab, khts, kT
key_sundo, kUND, !3
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keypad_local, rmkx, ke
keypad_xmit, smkx, ks
lab_f0, lf0, l0
lab_f1, lf1, l1
lab_f10, lf10, la
lab_f2, lf2, l2
lab_f3, lf3, l3

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lab_f5, lf5, l5
lab_f6, lf6, l6
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lab_f8, lf8, l8
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label_off, rmln, LF
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micro_down, mcud1, ZZ
micro_left, mcub1, Za
micro_right, mcuf1, Zb
micro_row_address, mvpa, Zc
micro_up, mcuu1, Zd
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order_of_pins, porder, Ze
orig_colors, oc, oc
orig_pair, op, op
pad_char, pad, pc
parm_dch, dch, DC
parm_delete_line, dl, DL
parm_down_cursor, cud, DO
parm_down_micro,
mcud, Zf
parm_ich, ich, IC
parm_index, indn, SF
parm_insert_line, il, AL
parm_left_cursor, cub, LE
parm_left_micro, mcub, Zg
parm_right_cursor, cuf, RI
parm_right_micro, mcuf, Zh
parm_rindex, rin, SR
parm_up_cursor, cuu, UP
parm_up_micro, mcuu, Zi
pkey_key, pfkey, pk
pkey_local, pfloc, pl
pkey_xmit, pfx, px
plab_norm, pln, pn
print_screen, mc0, ps
prtr_non, mc5p, pO
prtr_off, mc4, pf
prtr_on, mc5, po
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remove_clock, rmclk, RC

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req_for_input, rfi, RF
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reset_2string, rs2, r2
reset_3string, rs3, r3
reset_file, rf, rf
restore_cursor, rc, rc
row_address, vpa, cv
save_cursor, sc, sc
scroll_forward, ind, sf
scroll_reverse, ri, sr
select_char_set, scs, Zj
set_attributes, sgr, sa
set_background, setb, Sb
set_bottom_margin, smgb, Zk
set_bottom_margin_parm, smgbp, Zl
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set_color_pair, scp, sp
set_foreground, setf, Sf
set_left_margin, smgl, ML
set_left_margin_parm, smglp, Zm
set_right_margin,
smgr, MR
set_right_margin_parm, smgrp, Zn
set_tab, hts, st
set_top_margin, smgt, Zo
set_top_margin_parm, smgtp, Zp
set_window, wind, wi
start_bit_image, sbim, Zq
start_char_set_def, scsd, Zr
stop_bit_image, rbim, Zs
stop_char_set_def, rcsd, Zt
subscript_characters, subcs, Zu
superscript_characters, supcs, Zv
tab, ht, ta
these_cause_cr, docr, Zw
to_status_line, tsl, ts
tone, tone, TO
underline_char, uc, uc
up_half_line, hu, hu
user0, u0, u0
user1, u1, u1
user2, u2, u2
user3, u3, u3
user4, u4, u4
user5, u5, u5
user6, u6, u6
user7, u7, u7

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xon_character, xonc, XN
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bit_image_newline, binel, Zz
bit_image_repeat, birep, Xy
char_set_names, csnm, Zy
code_set_init, csin, ci
color_names, colornm, Yw
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smpch, S2
enter_scancode_mode, smsc, S4
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set1_des_seq, s1ds, s1
set2_des_seq, s2ds, s2
set3_des_seq, s3ds, s3
set_a_background, setab, AB
set_a_foreground, setaf, AF
set_color_band, setcolor, Yz
set_lr_margin, smglr, ML
set_page_length, slines, YZ
set_tb_margin, smgtb, MT
enter_horizontal_hl_mode, ehhlm, Xh
enter_left_hl_mode, elhlm, Xl
enter_low_hl_mode, elohlm, Xo
enter_right_hl_mode, erhlm, Xr
enter_top_hl_mode, ethlm, Xt
enter_vertical_hl_mode, evhlm, Xv
set_a_attributes, sgr1, sA
set_pglen_inch, slength, sL

Found in path(s):
* /opt/cola/permits/1300661635_1649159160.35/0/jline-terminal-3-21-0-sources-jar/org/jline/utils/capabilities.txt

1.1523 jline-terminal-jansi 3.21.0

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* /opt/cola/permits/1300661724_1649159325.53/0/jline-terminal-jansi-3-21-0-sources-jar/org/jline/terminal/impl/jansi/linux/LinuxNativePty.java
* /opt/cola/permits/1300661724_1649159325.53/0/jline-terminal-jansi-3-21-0-sources-jar/org/jline/terminal/impl/jansi/freebsd/FreeBsdNativePty.java
* /opt/cola/permits/1300661724_1649159325.53/0/jline-terminal-jansi-3-21-0-sources-jar/org/jline/terminal/impl/jansi/win/JansiWinConsoleWriter.java
* /opt/cola/permits/1300661724_1649159325.53/0/jline-terminal-jansi-3-21-0-sources-jar/org/jline/terminal/impl/jansi/osx/OsXNativePty.java
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* /opt/cola/permits/1300661724_1649159325.53/0/jline-terminal-jansi-3-21-0-sources-jar/org/jline/terminal/impl/jansi/JansiSupportImpl.java
* /opt/cola/permits/1300661724_1649159325.53/0/jline-terminal-jansi-3-21-0-sources-jar/org/jline/terminal/impl/jansi/JansiNativePty.java

1.1524 jline-reader 3.21.0

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* /opt/cola/permits/1300660935_1649159313.31/0/jline-reader-3-21-0-sources-jar/org/jline/reader/LineReader.java
* /opt/cola/permits/1300660935_1649159313.31/0/jline-reader-3-21-0-sources-jar/org/jline/reader/impl/DefaultHighlighter.java
* /opt/cola/permits/1300660935_1649159313.31/0/jline-reader-3-21-0-sources-jar/org/jline/reader/impl/CompletionMatcherImpl.java
* /opt/cola/permits/1300660935_1649159313.31/0/jline-reader-3-21-0-sources-jar/org/jline/reader/PrintAboveWriter.java
* /opt/cola/permits/1300660935_1649159313.31/0/jline-reader-3-21-0-sources-jar/org/jline/reader/impl/LineReaderImpl.java
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* /opt/cola/permits/1300660935_1649159313.31/0/jline-reader-3-21-0-sources-jar/org/jline/reader/Completer.java
* /opt/cola/permits/1300660935_1649159313.31/0/jline-reader-3-21-0-sources-jar/org/jline/reader/CompletingParsedLine.java
* /opt/cola/permits/1300660935_1649159313.31/0/jline-reader-3-21-0-sources-jar/org/jline/reader/impl/KillRing.java
* /opt/cola/permits/1300660935_1649159313.31/0/jline-reader-3-21-0-sources-jar/org/jline/reader/ParsedLine.java
* /opt/cola/permits/1300660935_1649159313.31/0/jline-reader-3-21-0-sources-jar/org/jline/keymap/BindingReader.java
*
 /opt/cola/permits/1300660935_1649159313.31/0/jline-reader-3-21-0-sources-jar/org/jline/reader/impl/completer/FileNameCompleter.java
* /opt/cola/permits/1300660935_1649159313.31/0/jline-reader-3-21-0-sources-jar/org/jline/reader/MaskingCallback.java
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* /opt/cola/permits/1300660935_1649159313.31/0/jline-reader-3-21-0-sources-jar/org/jline/reader/Highlighter.java
* /opt/cola/permits/1300660935_1649159313.31/0/jline-reader-3-21-0-sources-jar/org/jline/reader/impl/completer/ArgumentCompleter.java
* /opt/cola/permits/1300660935_1649159313.31/0/jline-reader-3-21-0-sources-jar/org/jline/reader/Candidate.java
* /opt/cola/permits/1300660935_1649159313.31/0/jline-reader-3-21-0-sources-jar/org/jline/reader/impl/completer/StringsCompleter.java
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* /opt/cola/permits/1300660935_1649159313.31/0/jline-reader-3-21-0-sources-jar/org/jline/reader/impl/DefaultExpander.java
* /opt/cola/permits/1300660935_1649159313.31/0/jline-reader-3-21-0-sources-jar/org/jline/reader/impl/history/package-info.java
* /opt/cola/permits/1300660935_1649159313.31/0/jline-reader-3-21-0-sources-jar/org/jline/reader/impl/completer/NullCompleter.java
* /opt/cola/permits/1300660935_1649159313.31/0/jline-reader-3-21-0-sources-jar/org/jline/reader/impl/completer/EnumCompleter.java
* /opt/cola/permits/1300660935_1649159313.31/0/jline-reader-3-21-0-sources-jar/org/jline/reader/impl/completer/package-info.java
*
 /opt/cola/permits/1300660935_1649159313.31/0/jline-reader-3-21-0-sources-jar/org/jline/reader/impl/completer/AggregateCompleter.java
* /opt/cola/permits/1300660935_1649159313.31/0/jline-reader-3-21-0-sources-jar/org/jline/reader/Expander.java
* /opt/cola/permits/1300660935_1649159313.31/0/jline-reader-3-21-0-sources-jar/org/jline/reader/Macro.java
* /opt/cola/permits/1300660935_1649159313.31/0/jline-reader-3-21-0-sources-jar/org/jline/reader/UserInterruptException.java
* /opt/cola/permits/1300660935_1649159313.31/0/jline-reader-3-21-0-sources-jar/org/jline/reader/Widget.java
* /opt/cola/permits/1300660935_1649159313.31/0/jline-reader-3-21-0-sources-jar/org/jline/keymap/KeyMap.java
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* /opt/cola/permits/1300660935_1649159313.31/0/jline-reader-3-21-0-sources-jar/org/jline/reader/Reference.java
*
 /opt/cola/permits/1300660935_1649159313.31/0/jline-reader-3-21-0-sources-jar/org/jline/reader/impl/UndoTree.java
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* /opt/cola/permits/1300660935_1649159313.31/0/jline-reader-3-21-0-sources-jar/org/jline/reader/EndOfFileException.java
* /opt/cola/permits/1300660935_1649159313.31/0/jline-reader-3-21-0-sources-jar/org/jline/reader/impl/completer/SystemCompleter.java
* /opt/cola/permits/1300660935_1649159313.31/0/jline-reader-3-21-0-sources-jar/org/jline/reader/LineReaderBuilder.java
* /opt/cola/permits/1300660935_1649159313.31/0/jline-reader-3-21-0-sources-jar/org/jline/reader/Parser.java
* /opt/cola/permits/1300660935_1649159313.31/0/jline-reader-3-21-0-sources-jar/org/jline/reader/impl/ReaderUtils.java
*
 /opt/cola/permits/1300660935_1649159313.31/0/jline-reader-3-21-0-sources-jar/org/jline/reader/impl/DefaultParser.java
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* /opt/cola/permits/1300660935_1649159313.31/0/jline-reader-3-21-0-sources-jar/org/jline/reader/Buffer.java
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* /opt/cola/permits/1300660935_1649159313.31/0/jline-reader-3-21-0-sources-jar/org/jline/reader/EOFError.java
* /opt/cola/permits/1300660935_1649159313.31/0/jline-reader-3-21-0-sources-jar/org/jline/reader/SyntaxError.java

1.1525 msgpack 4.0.4+incompatible

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1.1526 github.com/godbus/dbus/v5 5.0.4

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1.1527 migrate 4.7.0

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1.1528 is-shared-array-buffer 1.0.2

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1.1529 is-number-object 1.0.7

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1.1530 eslint-plugin-import 2.26.0

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1.1531 gopkg.in/sourcemap.v1 1.0.5

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1.1532 github.com/robertkrimen/otto 0.0.0-20180617131154-15f95af6e78d

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1.1533 shibumi-go-pathspec 1.3.0

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1.1534 checker-qual 3.19.0

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1.1535 accessors-smart 2.4.8

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Bnd-LastModified: 1644737816481
Build-Jdk: 11.0.14
Built-By: uriel
Bundle-Description: Java reflect give poor performance on getter sette
r an constructor calls, accessors-smart use ASM to speed up those cal
ls.
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Bundle-ManifestVersion: 2
Bundle-Name: accessors-smart
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Bundle-Version: 2.4.8
Created-By: Apache Maven Bundle Plugin
Export-Package: net.minidev.asm;uses:="org.objectweb.asm";version="2.4
.8",net.minidev.asm.ex;version="2.4.8"
Import-Package: org.objectweb.asm;version="[8.0,10)",net.minidev.asm.e
x
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-5.1.1.202006162103

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    tests/auto/network/access/qftp/rfc3252.txt
    tests/auto/network/access/qnetworkreply/bigfile
    tests/auto/network/access/qnetworkreply/resource
    tests/auto/network/access/qnetworkreply/rfc3252.txt
    tests/manual/network_stresstest/qtest
Removed non-free files:
* RFCs (see QTBUG-30544 and QTBUG-30545)
* htmlinfo example which contains non-free websites snapshots
#

```
 * src/3rdparty/gradle  built .jar file without source code
# * src/3rdparty/iaccessible2  not preferred form of modification
# * src/3rdparty/sqlite  not preferred form of modification
# * src/3rdparty/wintab  license does not permit modification

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     configure.bat
     qmake/*
     src/tools/*
     tests/*
     util/*
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Files: examples/*
     doc/src/snippets/*
     qmake/doc/snippets/*
     src/*/doc/snippets/*
     tests/manual/xembed*
     tests/manual/qlocale/*
     tests/manual/qtbug-52641/main.cpp
     tests/manual/windowtransparency/*
     src/winmain/qtmain_win.cpp
     src/winmain/qtmain_winrt.cpp
     tests/auto/corelib/global/qglobalstatic/tst_qglobalstatic.cpp
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         2005-2007 Brian Nelson <pyro@debian.org>
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Auto-generated rules for non-3rdparty code
Use debian/scripts/update-copyright in cleaned source tree root to update it.
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Files: examples/network/multistreamclient/chatconsumer.cpp
examples/network/multistreamclient/chatconsumer.h
examples/network/multistreamclient/client.cpp
examples/network/multistreamclient/client.h
examples/network/multistreamclient/consumer.h
examples/network/multistreamclient/main.cpp
examples/network/multistreamclient/movieconsumer.cpp
examples/network/multistreamclient/movieconsumer.h
examples/network/multistreamclient/timeconsumer.cpp
examples/network/multistreamclient/timeconsumer.h
examples/network/multistreamserver/chatprovider.cpp
examples/network/multistreamserver/chatprovider.h
examples/network/multistreamserver/main.cpp
examples/network/multistreamserver/movieprovider.cpp
examples/network/multistreamserver/movieprovider.h
examples/network/multistreamserver/provider.h
examples/network/multistreamserver/server.cpp
examples/network/multistreamserver/server.h
examples/network/multistreamserver/timeprovider.cpp
examples/network/multistreamserver/timeprovider.h
examples/network/shared/sctpchannels.h

src/network/doc/snippets/code/src_network_socket_qsctpsocket.cpp
Copyright: 2015-2016 Alex Trotsenko <alex1973tr@gmail.com>
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Files: src/corelib/doc/snippets/qmetaobject-revision/main.cpp
src/corelib/doc/snippets/qmetaobject-revision/window.cpp
src/corelib/doc/snippets/qmetaobject-revision/window.h
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Files: src/corelib/doc/snippets/code/src_corelib_tools_qcommandlineoption.cpp
src/corelib/doc/snippets/code/src_corelib_tools_qcommandlineparser.cpp
src/corelib/doc/snippets/code/src_corelib_tools_qcommandlineparser_main.cpp
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Files: src/corelib/doc/snippets/code/src_corelib_tools_qregularexpression.cpp
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Files: examples/corelib/serialization/cbordump/main.cpp
examples/corelib/serialization/convert/cborconverter.cpp
examples/corelib/serialization/convert/cborconverter.h
examples/corelib/serialization/convert/converter.h
examples/corelib/serialization/convert/datastreamconverter.cpp
examples/corelib/serialization/convert/datastreamconverter.h
examples/corelib/serialization/convert/jsonconverter.cpp
examples/corelib/serialization/convert/jsonconverter.h
examples/corelib/serialization/convert/main.cpp
examples/corelib/serialization/convert/nullconverter.cpp
examples/corelib/serialization/convert/nullconverter.h
examples/corelib/serialization/convert/textconverter.cpp
examples/corelib/serialization/convert/textconverter.h
examples/corelib/serialization/convert/xmlconverter.cpp
examples/corelib/serialization/convert/xmlconverter.h
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Files: examples/network/network-chat/connection.cpp
examples/network/network-chat/peermanager.cpp
src/corelib/doc/snippets/code/src_corelib_global_qrandom.cpp
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Files: examples/widgets/itemviews/storageview/main.cpp
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Files: examples/network/dnslookup/dnslookup.cpp
examples/network/dnslookup/dnslookup.h
src/network/doc/snippets/code/src_network_kernel_qdnslookup.cpp
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Files:
examples/widgets/itemviews/flattreeview/main.cpp
src/corelib/doc/snippets/code/src_corelib_tools_qscopeguard.cpp
src/corelib/doc/snippets/code/src_corelib_tools_qstringiterator.cpp
src/corelib/doc/snippets/code/src_gui_itemviews_qidentityproxymodel.cpp
src/openglextensions/qopenglextensions.cpp
src/openglextensions/qopenglextensions.h
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examples/widgets/widgets/mousebuttons/buttontester.h
examples/widgets/widgets/mousebuttons/main.cpp
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Files: src/corelib/doc/snippets/qmessageauthenticationcode/main.cpp
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Files: src/corelib/doc/snippets/code/src_corelib_kernel_qabstractnativeeventfilter.h
src/corelib/doc/snippets/code/src_corelib_kernel_qabstractnativeeventfilter.mm
src/gui/doc/snippets/qfileopenevent/Info.plist
src/gui/doc/snippets/qfileopenevent/main.cpp

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Files: src/corelib/doc/snippets/qbytearraylist/main.cpp
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Files: util/x86simdgen/generate.pl
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src/plugins/platforms/wasm/qtloader.js
src/plugins/platforms/wasm/qwasmbackingstore.cpp
src/plugins/platforms/wasm/qwasmbackingstore.h
src/plugins/platforms/wasm/qwasmcompositor.cpp
src/plugins/platforms/wasm/qwasmcompositor.h
src/plugins/platforms/wasm/qwasmcursor.cpp
src/plugins/platforms/wasm/qwasmcursor.h
src/plugins/platforms/wasm/qwasmeventdispatcher.cpp
src/plugins/platforms/wasm/qwasmeventdispatcher.h

src/plugins/platforms/wasm/qwasmeventtranslator.cpp
src/plugins/platforms/wasm/qwasmeventtranslator.h
src/plugins/platforms/wasm/qwasmfontdatabase.cpp
src/plugins/platforms/wasm/qwasmfontdatabase.h
src/plugins/platforms/wasm/qwasmintegration.cpp
src/plugins/platforms/wasm/qwasmintegration.h
src/plugins/platforms/wasm/qwasmopenglcontext.cpp
src/plugins/platforms/wasm/qwasmopenglcontext.h
src/plugins/platforms/wasm/qwasmscreen.cpp
src/plugins/platforms/wasm/qwasmscreen.h
src/plugins/platforms/wasm/qwasmstylepixmaps_p.h
src/plugins/platforms/wasm/qwasmtheme.cpp
src/plugins/platforms/wasm/qwasmtheme.h
src/plugins/platforms/wasm/qwasmwindow.cpp
src/plugins/platforms/wasm/qwasmwindow.h
tests/testserver/apache2/apache2.sh
tests/testserver/common/ssl.sh
tests/testserver/common/startup.sh
tests/testserver/danted/danted.sh
tests/testserver/ftp-proxy/ftp-proxy.sh
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Files: tests/auto/corelib/io/qfileselector/tst_qfileselector.cpp
tests/auto/network/access/spdy/tst_spdy.cpp
tests/manual/qnetworkconfiguration/main.cpp
tests/manual/qsslsocket/main.cpp
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tests/auto/corelib/io/qlockfile/tst_qlockfile.cpp
tests/auto/corelib/io/qsavefile/tst_qsavefile.cpp
tests/auto/corelib/mimetypes/qmimedatabase/test.qml
tests/auto/corelib/tools/qcommandlineparser/testhelper/qcommandlineparser_test_helper.cpp
tests/auto/corelib/tools/qcommandlineparser/tst_qcommandlineparser.cpp
tests/benchmarks/corelib/io/qtextstream/main.cpp
tests/benchmarks/corelib/thread/qthreadpool/tst_qthreadpool.cpp
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tests/benchmarks/network/access/qnetworkreply_from_cache/tst_qnetworkreply_from_cache.cpp
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Files: src/tools/moc/cbordevice.h
tests/auto/corelib/global/qglobal/qglobal.c

tests/auto/corelib/global/qrandomgenerator/tst_qrandomgenerator.cpp
tests/auto/corelib/io/qipaddress/tst_qipaddress.cpp
tests/auto/corelib/io/qprocess-noapplication/tst_qprocessnoapplication.cpp
tests/auto/corelib/io/qprocess/testProcessHang/main.cpp
tests/auto/corelib/io/qurlquery/tst_qurlquery.cpp
tests/auto/corelib/kernel/qdeadlinetimer/tst_qdeadlinetimer.cpp
tests/auto/corelib/plugin/qplugin/invalidplugin/main.cpp
tests/auto/corelib/plugin/qpluginloader/fakeplugin.cpp
tests/auto/corelib/plugin/qpluginloader/machtest/generate-bad.pl
tests/auto/corelib/plugin/qpluginloader/machtest/ppcconverter.pl
tests/auto/corelib/thread/qatomicinteger/tst_qatomicinteger.cpp
tests/auto/corelib/tools/qsharedpointer/nontracked.cpp
tests/auto/corelib/tools/qsharedpointer/nontracked.h
tests/auto/dbus/qdbusconnection_delayed/tst_qdbusconnection_delayed.cpp
tests/auto/dbus/qdbusconnection_no_app/tst_qdbusconnection_no_app.cpp
tests/auto/dbus/qdbusconnection_spyhook/tst_qdbusconnection_spyhook.cpp
tests/auto/network/kernel/qnetworkdatagram/tst_qnetworkdatagram.cpp
tests/auto/other/compiler/othersource.cpp
tests/auto/other/qprocess_and_guieventloop/tst_qprocess_and_guieventloop.cpp
tests/auto/other/qprocess_and_guieventloop/write-read-write/main.cpp
tests/auto/tools/moc/forward-declared-param.h
tests/auto/tools/qdbusxml2cpp/tst_qdbusxml2cpp.cpp
tests/benchmarks/corelib/tools/qcryptographichash/main.cpp
tests/manual/qdesktopservices/tst_qdesktopservices.cpp
tests/manual/qstorageinfo/main.cpp
tests/manual/qstorageinfo/printvolumes.cpp
tests/manual/qsysinfo/main.cpp
util/includemocs/includemocs.pl
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Files: tests/auto/network/kernel/qdnslookup/tst_qdnslookup.cpp
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Files: src/tools/moc/generator.cpp
tests/auto/corelib/kernel/qvariant/tst_qvariant.cpp
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Files: configure
configure.bat
qmake/generators/makefiledeps.cpp
qmake/generators/unix/unixmake2.cpp
qmake/main.cpp

src/tools/moc/main.cpp
tests/auto/corelib/codecs/qtextcodec/tst_qtextcodec.cpp
tests/auto/corelib/codecs/utf8/tst_utf8.cpp
tests/auto/corelib/codecs/utf8/utf8data.cpp
tests/auto/corelib/global/qgetputenv/tst_qgetputenv.cpp
tests/auto/corelib/global/qnumeric/tst_qnumeric.cpp
tests/auto/corelib/io/qdebug/tst_qdebug.cpp
tests/auto/corelib/io/qdir/tst_qdir.cpp
tests/auto/corelib/io/qfile/tst_qfile.cpp
tests/auto/corelib/io/qprocess/tst_qprocess.cpp
tests/auto/corelib/io/qresourceengine/tst_qresourceengine.cpp
tests/auto/corelib/io/qtemporaryfile/tst_qtemporaryfile.cpp
tests/auto/corelib/io/qurl/tst_qurl.cpp
tests/auto/corelib/io/qurlinternal/tst_qurlinternal.cpp
tests/auto/corelib/kernel/qcoreapplication/tst_qcoreapplication.cpp
tests/auto/corelib/kernel/qcoreapplication/tst_qcoreapplication.h
tests/auto/corelib/kernel/qtimer/tst_qtimer.cpp
tests/auto/corelib/plugin/qplugin/tst_qplugin.cpp
tests/auto/corelib/plugin/qpluginloader/tst_qpluginloader.cpp
tests/auto/corelib/thread/qatomicint/tst_qatomicint.cpp
tests/auto/corelib/thread/qatomicpointer/tst_qatomicpointer.cpp
tests/auto/corelib/thread/qmutex/tst_qmutex.cpp
tests/auto/corelib/thread/qthreadpool/tst_qthreadpool.cpp
tests/auto/corelib/tools/qbytearray/tst_qbytearray.cpp
tests/auto/corelib/tools/qdate/tst_qdate.cpp
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tests/auto/corelib/tools/qsharedpointer/forwarddeclared.cpp
tests/auto/corelib/tools/qsharedpointer/forwarddeclared.h
tests/auto/corelib/tools/qsharedpointer/tst_qsharedpointer.cpp
tests/auto/corelib/tools/qstring/tst_qstring.cpp
tests/auto/corelib/tools/qstringref/tst_qstringref.cpp
tests/auto/dbus/qdbusabstractadaptor/qmyserver/qmyserver.cpp
tests/auto/dbus/qdbusabstractadaptor/tst_qdbusabstractadaptor.cpp
tests/auto/dbus/qdbusabstractinterface/qpinger/qpinger.cpp
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tests/auto/dbus/qdbusinterface/qmyserver/qmyserver.cpp
tests/auto/dbus/qdbusmarshall/tst_qdbusmarshall.cpp
tests/auto/dbus/qdbuspendingcall/tst_qdbuspendingcall.cpp
tests/auto/dbus/qdbusservicewatcher/tst_qdbusservicewatcher.cpp
tests/auto/dbus/qdbustype/tst_qdbustype.cpp
tests/auto/network/kernel/qhostaddress/tst_qhostaddress.cpp
tests/auto/network/kernel/qhostinfo/tst_qhostinfo.cpp
tests/auto/network/kernel/qnetworkinterface/tst_qnetworkinterface.cpp
tests/auto/network/socket/platformsocketengine/tst_platformsocketengine.cpp
tests/auto/network/socket/qlocalsocket/tst_qlocalsocket.cpp
tests/auto/network/socket/qtcpsocket/tst_qtcpsocket.cpp

tests/auto/network/socket/qudpsocket/tst_qudpsocket.cpp
tests/auto/other/compiler/tst_compiler.cpp
tests/auto/testlib/selftests/tst_selftests.cpp
tests/benchmarks/corelib/tools/qbytearray/main.cpp
tests/benchmarks/corelib/tools/qhash/main.cpp
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Files: tests/auto/network/kernel/qdnslookup_appless/tst_qdnslookup_appless.cpp
tests/auto/network/ssl/qasn1element/tst_qasn1element.cpp
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Files: tests/auto/gui/painting/qpagelayout/tst_qpagelayout.cpp
tests/auto/printsupport/kernel/qprintdevice/tst_qprintdevice.cpp
tests/manual/qprintdevice_dump/main.cpp
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Files: tests/auto/cmake/test(needsquoting)dirname/mywidget.cpp
tests/auto/cmake/test(needsquoting)dirname/mywidget.h
tests/auto/cmake/test_QTBUG-63422/mywidget.cpp
tests/auto/cmake/test_QTBUG-63422/mywidget.h
tests/auto/cmake/test_add_big_resource/myobject.cpp
tests/auto/cmake/test_add_big_resource/myobject.h
tests/auto/cmake/test_add_resource_options/myobject.cpp
tests/auto/cmake/test_add_resource_options/myobject.h
tests/auto/cmake/test_add_resources_delayed_file/main.cpp

tests/auto/cmake/test_concurrent_module/main.cpp
tests/auto/cmake/test_dbus_module/mydbusobject.cpp
tests/auto/cmake/test_dbus_module/mydbusobject.h
tests/auto/cmake/test_dependent_modules/mywidget.cpp
tests/auto/cmake/test_dependent_modules/mywidget.h
tests/auto/cmake/test_egl_lib/main.cpp
tests/auto/cmake/test_interface/main.cpp
tests/auto/cmake/test_interface/mainwindow.cpp
tests/auto/cmake/test_interface/mainwindow.h
tests/auto/cmake/test_interface_link_libraries/main.cpp
tests/auto/cmake/test_interface_link_libraries/somelib.cpp
tests/auto/cmake/test_interface_link_libraries/somelib.h
tests/auto/cmake/test_json_plugin_includes/plugin.cpp
tests/auto/cmake/test_json_plugin_includes/plugin.h
tests/auto/cmake/test_moc_macro_target/interface/myinterface.h
tests/auto/cmake/test_moc_macro_target/main_gen_test.cpp
tests/auto/cmake/test_moc_macro_target/main_wrap_test.cpp
tests/auto/cmake/test_moc_macro_target/mywrapobject.h
tests/auto/cmake/test_multiple_find_package/main.cpp
tests/auto/cmake/test_opengl_lib/main.cpp
tests/auto/cmake/test_openglextensions_module/main.cpp
tests/auto/cmake/test_platform_defs_include/main.cpp
tests/auto/cmake/test_private_includes/main.cpp
tests/auto/cmake/test_qtmainwin_library/myobject.cpp
tests/auto/cmake/test_qtmainwin_library/myobject.h
tests/auto/cmake/test_testlib_definitions/main.cpp
tests/auto/cmake/test_use_modules_function/three.cpp
tests/auto/cmake/test_use_modules_function/two.cpp
tests/auto/cmake/test_wrap_cpp_and_resources/myobject.cpp
tests/auto/cmake/test_wrap_cpp_and_resources/myobject.h
tests/auto/cmake/test_wrap_cpp_options/myobject.cpp
tests/auto/cmake/test_wrap_cpp_options/myobject.h
tests/auto/corelib/global/qhooks/tst_qhooks.cpp
tests/auto/corelib/itemmodels/qidentityproxymodel/tst_qidentityproxymodel.cpp
tests/auto/corelib/itemmodels/qsortfilterproxymodel_recursive/tst_qsortfilterproxymodel_recursive.cpp
tests/auto/corelib/kernel/qsignalblocker/tst_qsignalblocker.cpp
tests/auto/corelib/tools/containerapisymmetry/tst_containerapisymmetry.cpp
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tests/auto/tools/moc/cxx11-explicit-override-control.h
tests/auto/tools/moc/cxx11-final-classes.h
tests/auto/tools/moc/single-quote-digit-separator-n3781.h
tests/auto/tools/qdbuscpp2xml/test1.h
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util/glgen/qopenglversionfunctionsfactory_p.h.header
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tests/auto/tools/moc/cxx11-enums.h
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src/tools/moc/preprocessor.cpp
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tests/auto/corelib/global/qlogging/tst_qlogging.cpp
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tests/manual/widgets/itemviews/autoResizePrecision/tablehorz/testtable1.cpp
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tests/manual/widgets/itemviews/delegate/example.cpp
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tests/manual/widgets/itemviews/qtreewidget/main.cpp
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mkspecs/qnx-armle-v7-qcc/qplatformdefs.h
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src/corelib/io/qfileselector.h
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src/network/access/qhttpprotocolhandler_p.h
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src/android/jar/src/org/qtproject/qt5/android/ExtractStyle.java
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src/plugins/platforms/android/androidjniclipboard.cpp
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src/plugins/platforms/android/androidsurfaceclient.h
src/plugins/platforms/android/extract.cpp
src/plugins/platforms/android/qandroidassetsfileenginehandler.cpp
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src/plugins/platforms/android/qandroidplatformfontdatabase.cpp
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src/plugins/platforms/android/qandroidplatformservices.h
src/plugins/platforms/android/qandroidplatformtheme.cpp
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src/android/jar/src/org/qtproject/qt5/android/QtNative.java
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src/android/jar/src/org/qtproject/qt5/android/QtServiceDelegate.java
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src/plugins/platforms/mirclient/qmirclientappstatecontroller.h
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src/plugins/platforms/mirclient/qmirclientclipboard.cpp
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Files: mkspecs/common/android/qplatformdefs.h

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src/platformsupport/themes/genericunix/dbusmenu/qdbusmenubar_p.h
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src/network/ssl/qsslsocket_opensslpre11.cpp
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Files: mkspecs/common/integrity/qplatformdefs.h
mkspecs/integrity-armv7-imx6/qplatformdefs.h
mkspecs/integrity-armv7/qplatformdefs.h
mkspecs/integrity-armv8-rcar/qplatformdefs.h
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src/platformsupport/input/integrityhid/qintegrityhidmanager.cpp
src/platformsupport/input/integrityhid/qintegrityhidmanager.h

src/plugins/platforms/integrity/qintegrityhidmanager.cpp
src/plugins/platforms/integrity/qintegrityhidmanager.h
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Files: src/corelib/tools/qstring_mips_dsp_asm.S
src/gui/image/qimage_mips_dspr2.cpp
src/gui/image/qimage_mips_dspr2_asm.S
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src/gui/painting/qt_mips_asm_dsp_p.h
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Files: config.tests/avx512/avx512.cpp
config.tests/x86_simd/main.cpp
mkspecs/features/data/unix/findclasslist.pl
src/corelib/global/minimum-linux.S
src/corelib/global/minimum-linux_p.h
src/corelib/global/qglobalstatic.h
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src/corelib/global/qversiontagging.cpp
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src/corelib/io/qipaddress.cpp
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src/corelib/plugin/qmachparser.cpp
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tests/auto/corelib/serialization/qcborstreamreader/tst_qcborstreamreader.cpp
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tests/auto/corelib/serialization/qcborvalue/tst_qcborvalue.cpp
tests/auto/corelib/serialization/qcborvalue_json/tst_qcborvalue_json.cpp
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Files: src/corelib/global/qlogging.cpp
src/corelib/kernel/qmetatype.h
src/corelib/kernel/qobject.cpp
src/corelib/kernel/qvariant.cpp
src/corelib/thread/qmutex.cpp
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Files: bin/syncqt.pl
config.tests/arch/arch.cpp
src/corelib/codecs/qtextcodec.cpp
src/corelib/codecs/qutfcodec.cpp
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src/corelib/tools/qstringlist.h
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src/testlib/qbenchmarkmetric.cpp
src/testlib/qbenchmarkmetric.h
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src/network/kernel/qdnslookup.h
src/network/kernel/qdnslookup_p.h
src/network/kernel/qdnslookup_unix.cpp
src/network/kernel/qdnslookup_win.cpp
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src/corelib/tools/qtimezone.h
src/corelib/tools/qtimezoneprivate.cpp
src/corelib/tools/qtimezoneprivate_data_p.h
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src/corelib/tools/qtimezoneprivate_p.h
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src/plugins/platforms/cocoa/qcocoaprintdevice.h
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src/plugins/printsupport/cups/qppdprintdevice.cpp
src/plugins/printsupport/cups/qppdprintdevice.h
src/printsupport/kernel/qplatformprintdevice.cpp
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src/plugins/printsupport/cups/qcupsprintersupport_p.h
src/plugins/printsupport/windows/qwindowsprintdevice.cpp
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src/platformsupport/input/evdevtouch/qevdevtouchhandler_p.h
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Files: mkspecs/haiku-g++/qplatformdefs.h
src/3rdparty/pcre2/import_from_pcre2_tarball.sh
src/corelib/global/qhooks.cpp
src/corelib/global/qhooks_p.h
src/corelib/global/qtrace_p.h
src/corelib/global/qtypetraits.h
src/corelib/io/qstandardpaths_haiku.cpp
src/corelib/itemmodels/qidentityproxymodel.cpp
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src/plugins/platforms/cocoa/qcocoamenuitem.mm
src/plugins/platforms/cocoa/qcocoasystemtrayicon.h
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1.1542 jetcd-common 0.7.0

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Found in path(s):
* /opt/cola/permits/1302049218_1649313778.98/0/jetcd-common-0-7-0-sources-jar/io/etcd/jetcd/common/exception/ErrorCode.java
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Found in path(s):
* /opt/cola/permits/1302049218_1649313778.98/0/jetcd-common-0-7-0-sources-jar/io/etcd/jetcd/common/exception/CompactedException.java
* /opt/cola/permits/1302049218_1649313778.98/0/jetcd-common-0-7-0-sources-jar/io/etcd/jetcd/common/exception/EtcdException.java
* /opt/cola/permits/1302049218_1649313778.98/0/jetcd-common-0-7-0-sources-jar/io/etcd/jetcd/common/exception/ClosedWatcherException.java
*
 /opt/cola/permits/1302049218_1649313778.98/0/jetcd-common-0-7-0-sources-jar/io/etcd/jetcd/common/Service.java
* /opt/cola/permits/1302049218_1649313778.98/0/jetcd-common-0-7-0-sources-jar/io/etcd/jetcd/common/exception/ClosedSnapshotException.java
* /opt/cola/permits/1302049218_1649313778.98/0/jetcd-common-0-7-0-sources-jar/io/etcd/jetcd/common/exception/ClosedKeepAliveListenerException.java
* /opt/cola/permits/1302049218_1649313778.98/0/jetcd-common-0-7-0-sources-jar/io/etcd/jetcd/common/exception/ClosedClientException.java
* /opt/cola/permits/1302049218_1649313778.98/0/jetcd-common-0-7-0-sources-

jar/io/etcd/jetcd/common/exception/EtcdExceptionFactory.java

1.1543 jetcd-core 0.7.0

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```

Found in path(s):
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/watch/WatchResponseWithError.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/resolver/HttpNameResolver.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/resolver/IPNameResolver.java
*
 /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/auth/AuthRoleGetResponse.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/lock/LockResponse.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/auth/AuthUserChangePasswordResponse.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/impl/LockImpl.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/resolver/DnsSrvResolverProvider.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/Txn.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/options/GetOption.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/Client.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/lease/LeaseTimeToLiveResponse.java
*

/opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/auth/AuthRoleRevokePermissionResponse.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/Response.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/auth/AuthEnableResponse.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/ByteSequence.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/lease/LeaseKeepAliveResponseWithError.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/support/Util.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/Auth.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/impl/LeaseImpl.java
*
/opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/impl/ClientImpl.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/Watch.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/lock/UnlockResponse.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/election/ProclaimResponse.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/op/Cmp.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/maintenance/SnapshotReaderResponseWithError.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/watch/WatchEvent.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/election/LeaderKey.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/support/Errors.java
*
/opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/auth/AuthRoleAddResponse.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/resolver/HttpsNameResolver.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/cluster/Member.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/impl/ClusterImpl.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/impl/AuthCredential.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/kv/CompactResponse.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/maintenance/SnapshotResponse.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/maintenance/AlarmResponse.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/cluster/MemberUpdateResponse.java
*
/opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/election/LeaderResponse.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/options/CompactOption.java

* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/auth/AuthRoleGrantPermissionResponse.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/support/MemorizingClientSupplier.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/maintenance/AlarmMember.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/options/WatchOption.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/auth/AuthUserGrantRoleResponse.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/cluster/Util.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/auth/AuthUserListResponse.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/impl/AuthImpl.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/maintenance/DefragmentResponse.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/auth/AuthUserDeleteResponse.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/op/Op.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/impl/WatchImpl.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/Cluster.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/options/OptionsUtil.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/impl/KVImpl.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/kv/DeleteResponse.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/cluster/MemberAddResponse.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/auth/Permission.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/resolver/DnsSrvNameResolver.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/auth/AuthRoleListResponse.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/resolver/IPResolverProvider.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/support/CloseableClient.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/election/NotLeaderException.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/op/CmpTarget.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/lease/LeaseRevokeResponse.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/kv/GetResponse.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/ClientBuilder.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/maintenance/HashKVResponse.java

* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/op/TxnImpl.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/resolver/AbstractResolverProvider.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/lease/LeaseKeepAliveResponse.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/kv/TxnResponse.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/cluster/MemberListResponse.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/options/DeleteOption.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/Lock.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/maintenance/AlarmType.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/KV.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/KeyValue.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/options/LeaseOption.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/lease/NoSuchLeaseException.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/lease/LeaseGrantResponse.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/cluster/MemberRemoveResponse.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/impl/ElectionImpl.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/impl/AbstractResponse.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/impl/MaintenanceImpl.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/auth/AuthUserAddResponse.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/election/NoLeaderException.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/maintenance/StatusResponse.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/auth/AuthUserRevokeRoleResponse.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/resolver/AbstractNameResolver.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/election/ResignResponse.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/options/PutOption.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/election/CampaignResponse.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/maintenance/MoveLeaderResponse.java

* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/auth/AuthRoleDeleteResponse.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/watch/WatchResponse.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/auth/AuthDisableResponse.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/impl/ClientConnectionManager.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/Constants.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/support/Observers.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/auth/AuthUserGetResponse.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/resolver/HttpsResolverProvider.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/Lease.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/resolver/HttpResolverProvider.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/Election.java
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/kv/PutResponse.java
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*/
/**
   * Defragment one member of the cluster by its endpoint.
   *
   * <p>
   * After compacting the keyspace, the backend database may exhibit internal
   * fragmentation. Any internal fragmentation is space that is free to use
   * by the backend but still consumes storage space. The process of
   * defragmentation
 releases this storage space back to the file system.
   * Defragmentation is issued on a per-member so that cluster-wide latency
   * spikes may be avoided.
```

```
 *
 * <p>
 * Defragment is an expensive operation. User should avoid defragmenting
 * multiple members at the same time.
 * To defragment multiple members in the cluster, user need to call defragment
 * multiple times with different endpoints.
 *
 * @param  target the etcd server endpoint.
 * @return        the response result
 */
```

Found in path(s):
* /opt/cola/permits/1302049206_1649313745.73/0/jetcd-core-0-7-0-sources-jar/io/etcd/jetcd/Maintenance.java

1.1544 grpc-grpclb 1.45.0

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Found in path(s):
* /opt/cola/permits/1302049245_1649313822.94/0/grpc-grpclb-1-45-0-jar/grpc/lb/v1/load_balancer.proto

1.1545 vertx-core 4.2.6

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1.1546 regenerator-transform 0.15.0

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1.1547 golang-mock 1.4.4

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Please keep the list sorted.

Aaron Jacobs <jacobsa@google.com> <aaronjjacobs@gmail.com>
Alex Reece <awreece@gmail.com>
David Symonds <dsymonds@golang.org>
Ryan Barrett <ryanb@google.com>
package empty_interface

//go:generate mockgen -package empty_interface -destination mock.go -source input.go -
copyright_file=mock_copyright_header

type Empty interface{}

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//

// Code generated by MockGen. DO NOT EDIT.
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// Package empty_interface is a generated GoMock package.
package empty_interface

import (
 gomock "github.com/golang/mock/gomock"
)

// MockEmpty is a mock of Empty interface.
type MockEmpty struct {
 ctrl     *gomock.Controller
 recorder *MockEmptyMockRecorder
}

// MockEmptyMockRecorder is the mock recorder for MockEmpty.
type MockEmptyMockRecorder struct {
 mock *MockEmpty
}

// NewMockEmpty creates a new mock instance.
func NewMockEmpty(ctrl *gomock.Controller) *MockEmpty {
 mock := &MockEmpty{ctrl: ctrl}
 mock.recorder = &MockEmptyMockRecorder{mock}
 return mock
}

// EXPECT returns an object that allows the caller to indicate expected use.
func (m *MockEmpty) EXPECT() *MockEmptyMockRecorder
 {
 return m.recorder
}
```

1.1548 domelementtype 2.3.0

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1.1549 paho.mqtt.golang 1.2.0

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1.1555 es-shim-unscopables 1.0.0

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1.1558 github.com/daviddengcn/go-colortext 1.0.0

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1.1559 protobuf 3.20.0

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1.1560 github.com/cockroachdb/redact 1.1.3

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1.1564 github.com/tyktechnologies/leakybucket 0.0.0-20170301023702-71692c943e3c

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1.1567 gopkg.in/vmihailenco/msgpack.v2 2.9.1

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1.1568 github.com/cenk/backoff 2.2.1+incompatible

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1.1569 github.com/gocraft/health 0.0.0-20170925182251-8675af27fef0

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1.1570 ratecounter 0.2.0

1.1570.1 Available under license :

RateCounter Contributors (sorted alphabetically)
==========

- **[cheshir](https://github.com/cheshir)**

 - Added averate rate counter

- **[paulbellamy](https://github.com/paulbellamy)**

 - Original implementation and general housekeeping

- **[sheerun](https://github.com/sheerun)**

 - Improved memory efficiency

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1.1571 github.com/gemnasium/logrus-graylog-hook 2.0.7+incompatible

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1.1572 github.com/bshuster-repo/logrus-logstash-hook 0.4.1

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1.1573 github.com/tyktechnologies/goautosocket 0.0.0-20190430121222-97bfa5e7e481

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1.1574 github.com/mavricknz/asn1-ber 0.0.0-20151103223136-b9df1c2f4213

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1.1575 github.com/tyktechnologies/again 0.0.0-20190805133618-6ad301e7eaed

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1.1576 github.com/getsentry/raven-go 0.2.0

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1.1577 github.com/jensneuse/abstractlogger 0.0.4

1.1577.1 Available under license :

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/*
package abstractlogger solves the problem of abstracting away a logging frontend from a logging backend.

Usually you would choose the best logger you can for your project.
This can be determined by specific needs regarding the interface of the logger or just requirements regarding performance.

But what if you want to change the logger easily?
What if you're building a library and want your users to be able to use whatever logging library they want?

This is exactly the problem abstractlogger tries to solve.
This package acts as a "frontend" for logging that lets you or your users choose the backend.

You're free to use one of the existing implementations, e.g. zap or logrus which are common across the community.
If that doesn't satisfy your needs feel free to implement the interface yourself.
You're invited to contribute back your additional implementations.

If you think the Logger interface/frontend doesn't satisfy
your needs feel free to add additional funcs via a PR.
*/

Found in path(s):

1.1578 gopkg.in/xmlpath.v2 2.0.0-20150820204837-860cbeca3ebc

1.1578.1 Available under license :

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1.1579 github.com/jensneuse/byte-template 0.0.0-20200214152254-4f3cf06e5c68

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1.1580 github.com/tyktechnologies/circuitbreaker 2.2.2+incompatible

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1.1581 github.com/jensneuse/pipeline 0.0.0-20200117120358-9fb4de085cd6

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1.1582 github.com/evalphobia/logrus_sentry 0.8.2

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1.1583 abab 2.0.6

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1.1584 regexp-prototype-flags 1.4.3

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1.1585 xz 5.2.5-2.1~deb11u1

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1.1589 github.com/blevesearch/go-porterstemmer 1.0.3

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cli.go - https://github.com/codegangsta/cli

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}
```

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ginkgo - https://github.com/onsi/ginkgo

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1.1590 github.com/blevesearch/snowballstem 0.9.0

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1.1596 react-scripts 5.0.1

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1.1597 react-dev-utils 12.0.1

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1.1598 react-error-overlay 6.0.11

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1.1604 css-has-pseudo 3.0.4

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1.1605 @csstools/postcss-progressive-custom-properties 1.3.0

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1.1606 jake 10.8.5

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1.1607 postcss-env-function 4.0.6

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1.1608 css-blank-pseudo 3.0.3

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1.1609 css-prefers-color-scheme 6.0.3

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1.1611 postcss-focus-visible 6.0.4

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1.1612 postcss-focus-within 5.0.4

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1.1613 unbox-primitive 1.0.2

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1.1614 lombok 1.18.24

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1.1615 geronimo-annotation 1.3

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* /opt/cola/permits/1319511080_1651292445.79/0/plexus-sec-dispatcher-2-0-sources-jar/org/sonatype/plexus/components/sec/dispatcher/SecDispatcherException.java
* /opt/cola/permits/1319511080_1651292445.79/0/plexus-sec-dispatcher-2-0-sources-jar/org/sonatype/plexus/components/sec/dispatcher/SecDispatcher.java
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* /opt/cola/permits/1319511080_1651292445.79/0/plexus-sec-dispatcher-2-0-sources-jar/org/sonatype/plexus/components/sec/dispatcher/DefaultSecDispatcher.java

1.1622 @jridgewell/gen-mapping 0.1.1

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* /opt/cola/permits/1322130131_1651777443.55/0/hikaricp-5-0-1-sources-1-jar/com/zaxxer/hikari/metrics/prometheus/HikariCPCollector.java
* /opt/cola/permits/1322130131_1651777443.55/0/hikaricp-5-0-1-sources-1-jar/com/zaxxer/hikari/pool/ProxyFactory.java
* /opt/cola/permits/1322130131_1651777443.55/0/hikaricp-5-0-1-sources-1-jar/com/zaxxer/hikari/util/SuspendResumeLock.java
* /opt/cola/permits/1322130131_1651777443.55/0/hikaricp-5-0-1-sources-1-jar/com/zaxxer/hikari/util/FastList.java
* /opt/cola/permits/1322130131_1651777443.55/0/hikaricp-5-0-1-sources-1-jar/com/zaxxer/hikari/HikariConfig.java
* /opt/cola/permits/1322130131_1651777443.55/0/hikaricp-5-0-1-sources-1-jar/com/zaxxer/hikari/util/JavassistProxyFactory.java
* /opt/cola/permits/1322130131_1651777443.55/0/hikaricp-5-0-1-sources-1-jar/com/zaxxer/hikari/pool/ProxyConnection.java
* /opt/cola/permits/1322130131_1651777443.55/0/hikaricp-5-0-1-sources-1-jar/com/zaxxer/hikari/util/DriverDataSource.java
* /opt/cola/permits/1322130131_1651777443.55/0/hikaricp-5-0-1-sources-1-jar/com/zaxxer/hikari/pool/ProxyResultSet.java
* /opt/cola/permits/1322130131_1651777443.55/0/hikaricp-5-0-1-sources-1-

jar/com/zaxxer/hikari/pool/ProxyLeakTaskFactory.java
*
 /opt/cola/permits/1322130131_1651777443.55/0/hikaricp-5-0-1-sources-1-
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jar/com/zaxxer/hikari/hibernate/HikariConnectionProvider.java
* /opt/cola/permits/1322130131_1651777443.55/0/hikaricp-5-0-1-sources-1-
jar/com/zaxxer/hikari/util/UtilityElf.java

* /opt/cola/permits/1322130131_1651777443.55/0/hikaricp-5-0-1-sources-1-jar/com/zaxxer/hikari/hibernate/HikariConfigurationUtil.java
*
 /opt/cola/permits/1322130131_1651777443.55/0/hikaricp-5-0-1-sources-1-jar/com/zaxxer/hikari/util/PropertyElf.java
* /opt/cola/permits/1322130131_1651777443.55/0/hikaricp-5-0-1-sources-1-jar/com/zaxxer/hikari/HikariDataSource.java
* /opt/cola/permits/1322130131_1651777443.55/0/hikaricp-5-0-1-sources-1-jar/com/zaxxer/hikari/metrics/prometheus/PrometheusHistogramMetricsTracker.java
* /opt/cola/permits/1322130131_1651777443.55/0/hikaricp-5-0-1-sources-1-jar/com/zaxxer/hikari/HikariConfigMXBean.java
* /opt/cola/permits/1322130131_1651777443.55/0/hikaricp-5-0-1-sources-1-jar/com/zaxxer/hikari/metrics/dropwizard/CodahaleMetricsTrackerFactory.java
* /opt/cola/permits/1322130131_1651777443.55/0/hikaricp-5-0-1-sources-1-jar/com/zaxxer/hikari/HikariPoolMXBean.java
* /opt/cola/permits/1322130131_1651777443.55/0/hikaricp-5-0-1-sources-1-jar/com/zaxxer/hikari/pool/ProxyPreparedStatement.java
* /opt/cola/permits/1322130131_1651777443.55/0/hikaricp-5-0-1-sources-1-jar/com/zaxxer/hikari/metrics/prometheus/PrometheusMetricsTracker.java
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 /opt/cola/permits/1322130131_1651777443.55/0/hikaricp-5-0-1-sources-1-jar/com/zaxxer/hikari/pool/ProxyCallableStatement.java
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* /opt/cola/permits/1322130131_1651777443.55/0/hikaricp-5-0-1-sources-1-jar/com/zaxxer/hikari/pool/PoolEntry.java

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* /opt/cola/permits/1322130131_1651777443.55/0/hikaricp-5-0-1-sources-1-jar/com/zaxxer/hikari/HikariJNDIFactory.java
* /opt/cola/permits/1322130131_1651777443.55/0/hikaricp-5-0-1-sources-1-jar/com/zaxxer/hikari/metrics/MetricsTracker.java
*
 /opt/cola/permits/1322130131_1651777443.55/0/hikaricp-5-0-1-sources-1-jar/com/zaxxer/hikari/metrics/MetricsTrackerFactory.java
* /opt/cola/permits/1322130131_1651777443.55/0/hikaricp-5-0-1-sources-1-jar/com/zaxxer/hikari/metrics/dropwizard/CodaHaleMetricsTracker.java
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* /opt/cola/permits/1322130131_1651777443.55/0/hikaricp-5-0-1-sources-1-jar/com/zaxxer/hikari/metrics/prometheus/PrometheusHistogramMetricsTrackerFactory.java

1.1624 string-prototype-trimend 1.0.5

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1.1634 groupcache 0.0.0-20210331224755-41bb18bfe9da

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1.1635 jwalterweatherman 1.1.0

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1.1636 glob 0.2.3

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1.1637 afero 1.6.0

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1.1638 blang-semver 3.5.1+incompatible

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1.1641 units 0.0.0-20190924025748-f65c72e2690d

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1.1642 cors 1.7.0

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1.1643 fsnotify 1.4.7

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1.1644 gojsonpointer 0.0.0-20180127040702-4e3ac2762d5f

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1.1645 sarama 1.29.1

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1.1646 maven-artifact 3.8.4

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1.1647 dozer-spring 5.5.1

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* /opt/cola/permits/1326203648_1652378743.713483/0/dozer-spring-5-5-1-sources-1-jar/org/dozer/spring/DozerBeanMapperFactoryBean.java
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* /opt/cola/permits/1326203648_1652378743.713483/0/dozer-spring-5-5-1-sources-1-jar/dozer-spring.xsd

1.1648 golang-snappy 0.0.3

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1.1650 influxdb 1.8.0

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Found in path(s):
* /opt/cola/permits/1326307438_1652390603.4675238/0/pippo-metrics-influxdb-1-8-0-sources-jar/ro/pippo/influxdb/Reporter.java

1.1651 go-oidc 2.2.1+incompatible

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1.1652 prometheus-client 1.0.0

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1.1658 gorilla-websocket 1.4.2

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1.1660 gabs 1.4.0

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1.1661 jakarta-transaction-api 2.0.1

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1.1663 gorilla-websocket 1.5.0

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--
-- Accedian Enterprise Specific MIB: Structure of Management Information
--
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```
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--


ACCEDIAN-SMI DEFINITIONS ::= BEGIN

IMPORTS
  MODULE-IDENTITY, OBJECT-IDENTITY, OBJECT-TYPE, NOTIFICATION-TYPE, enterprises
     FROM SNMPv2-SMI
  MODULE-COMPLIANCE, OBJECT-GROUP, NOTIFICATION-GROUP
     FROM SNMPv2-CONF;

accedianMIB MODULE-IDENTITY
  LAST-UPDATED "200608060100Z"
  ORGANIZATION "Accedian Networks, Inc."
  CONTACT-INFO
         "Accedian Technical Assistance Center
          Accedian Networks, Inc.
          2351 Alfred-Nobel blvd., Suite N-410
          Saint-Laurent, Quebec Canada H4S 2A9
          E-mail: support@accedian.com"
  DESCRIPTION
         "The Structure of Management Information for Accedian Networks."

  REVISION "200608060100Z"
      -- 6 Aug 2006
  DESCRIPTION
         "Initial version of MIB module ACCEDIAN-SMI."

  ::= { enterprises 22420 }

--
-- Accedian MIB tree structure
--

acdProducts OBJECT-IDENTITY
  STATUS  current
  DESCRIPTION
         "The root of Accedian's Product OIDs."
  ::= { accedianMIB 1 }

acdMibs OBJECT-IDENTITY
  STATUS  current
  DESCRIPTION
         "The root of Accedian's MIB objects."
  ::= { accedianMIB 2 }
```

```
acdTraps OBJECT-IDENTITY
  STATUS  current
  DESCRIPTION
        "The root of Accedian's Trap OIDs."
  ::= { accedianMIB 3 }

  id OBJECT IDENTIFIER ::= {acdTraps 1}

  objectId OBJECT-TYPE
     SYNTAX OCTET STRING (SIZE (0..255))
     MAX-ACCESS  read-write
     STATUS current
     DESCRIPTION
        "The Monitored Object Id in Skylight Analytics"
     ::= {acdTraps 2}

  skylightObjectName OBJECT-TYPE
     SYNTAX OCTET STRING (SIZE (0..255))
     MAX-ACCESS  read-write
     STATUS current
      DESCRIPTION
        "The Monitored Object Name in Skylight Analytics"
     ::= {acdTraps 3}

  objectType OBJECT-TYPE
     SYNTAX OCTET STRING (SIZE (0..255))
     MAX-ACCESS  read-write
     STATUS current
     DESCRIPTION
        "The Monitored Object Type in Skylight Analytics"
     ::= {acdTraps 4}

  direction OBJECT-TYPE
     SYNTAX OCTET STRING (SIZE (0..255))
     MAX-ACCESS  read-write
     STATUS current
     DESCRIPTION
        "Direction of measurement"
     ::= {acdTraps 5}

  policy OBJECT-TYPE
     SYNTAX OCTET STRING (SIZE (0..255))
     MAX-ACCESS  read-write
     STATUS current
     DESCRIPTION
        "The ID of AlertPolicy hat was used to trigger this Alert"
     ::= {acdTraps 6}
```

```
metric OBJECT-TYPE
   SYNTAX OCTET STRING (SIZE (0..255))
   MAX-ACCESS  read-write
   STATUS current
   DESCRIPTION
      "The assoicated metric"
   ::= {acdTraps 7}

 alertType OBJECT-TYPE
   SYNTAX OCTET STRING (SIZE (0..255))
   MAX-ACCESS  read-write
   STATUS current
   DESCRIPTION
      "The alert type"
   ::= {acdTraps 8}

source OBJECT-TYPE
   SYNTAX OCTET STRING (SIZE (0..255))
   MAX-ACCESS  read-write
   STATUS current
   DESCRIPTION
      "The entity that detected the alert"
   ::= {acdTraps 9}

processedTime OBJECT-TYPE
   SYNTAX OCTET STRING (SIZE (0..255))
   MAX-ACCESS  read-write
   STATUS current
   DESCRIPTION
      "The time when this alert was processed"
   ::= {acdTraps 10}

startTime OBJECT-TYPE
   SYNTAX OCTET STRING (SIZE (0..255))
   MAX-ACCESS  read-write
   STATUS current
   DESCRIPTION
      "The time when this alert actually started"
   ::= {acdTraps 11}

timestamp OBJECT-TYPE
   SYNTAX OCTET STRING (SIZE (0..255))
   MAX-ACCESS  read-write
   STATUS current

  DESCRIPTION
      "The trap timestamp"
```

```
    ::= {acdTraps 12}

policyName OBJECT-TYPE
    SYNTAX OCTET STRING (SIZE (0..255))
    MAX-ACCESS  read-write
    STATUS current
    DESCRIPTION
        "The name of the policy that was configured to raise the alert"
    ::= {acdTraps 13}

alertState OBJECT-TYPE
    SYNTAX OCTET STRING (SIZE (0..255))
    MAX-ACCESS  read-write
    STATUS current
    DESCRIPTION
        "The current alert state"
    ::= {acdTraps 14}

thresholdValue OBJECT-TYPE
    SYNTAX OCTET STRING (SIZE (0..255))
    MAX-ACCESS  read-write
    STATUS current
    DESCRIPTION
        "The configured  threshold value"
    ::= {acdTraps 15}


metaDataKey1 OBJECT-TYPE
    SYNTAX OCTET STRING (SIZE (0..255))
    MAX-ACCESS  read-write
    STATUS current
    DESCRIPTION
        "Alert Metadata Key Name 1"
    ::= {acdTraps 16}

metaDataKey2 OBJECT-TYPE
     SYNTAX OCTET STRING (SIZE (0..255))
    MAX-ACCESS  read-write
    STATUS current
    DESCRIPTION
        "Alert Metadata Key Name 2"
    ::= {acdTraps 17}

metaDataKey3 OBJECT-TYPE
    SYNTAX OCTET STRING (SIZE (0..255))
    MAX-ACCESS  read-write
    STATUS current
    DESCRIPTION
```

```
        "Alert Metadata Key Name 3"
    ::= {acdTraps 18}

  metaDataKey4 OBJECT-TYPE
    SYNTAX OCTET STRING (SIZE (0..255))
    MAX-ACCESS  read-write
    STATUS current
    DESCRIPTION
        "Alert Metadata Key Name 4"
    ::= {acdTraps 19}

  metaDataKey5 OBJECT-TYPE
    SYNTAX OCTET STRING (SIZE (0..255))
    MAX-ACCESS  read-write
    STATUS current
    DESCRIPTION
        "Alert Metadata Key Name 5"
    ::= {acdTraps 20}

  metaDataVal1 OBJECT-TYPE
    SYNTAX OCTET STRING (SIZE (0..255))
    MAX-ACCESS  read-write
    STATUS current
    DESCRIPTION
        "Alert Metadata
Value 1"
    ::= {acdTraps 21}

  metaDataVal2 OBJECT-TYPE
    SYNTAX OCTET STRING (SIZE (0..255))
    MAX-ACCESS  read-write
    STATUS current
    DESCRIPTION
        "Alert Metadata Value 2"
    ::= {acdTraps 22}

  metaDataVal3 OBJECT-TYPE
    SYNTAX OCTET STRING (SIZE (0..255))
    MAX-ACCESS  read-write
    STATUS current
    DESCRIPTION
        "Alert Metadata Value 3"
    ::= {acdTraps 23}

  metaDataVal4 OBJECT-TYPE
    SYNTAX OCTET STRING (SIZE (0..255))
    MAX-ACCESS  read-write
    STATUS current
```

```
      DESCRIPTION
         "Alert Metadata Value 4"
      ::= {acdTraps 24}

   metaDataVal5 OBJECT-TYPE
      SYNTAX OCTET STRING (SIZE (0..255))
      MAX-ACCESS  read-write
      STATUS current
      DESCRIPTION
         "Alert Metadata Value 5"
      ::= {acdTraps 25}

acdTrapsConformance OBJECT IDENTIFIER ::= { acdTraps 500 }

acdTrapsCompliances  OBJECT IDENTIFIER ::= { acdTrapsConformance
 1 }
acdTrapsGroups       OBJECT IDENTIFIER ::= { acdTrapsConformance 2 }

acdTrapsNotifications OBJECT IDENTIFIER ::= { acdTraps 50 }

acdTrapSkylight NOTIFICATION-TYPE
   OBJECTS  {  objectId,
               skylightObjectName,
               objectType,
               direction,
               policy,
               metric,
               alertType,
               source,
               processedTime,
               startTime,
               timestamp,
               policyName,
               alertState,
               thresholdValue,
               metaDataKey1,
               metaDataKey2,
               metaDataKey3,
               metaDataKey4,
               metaDataKey5,
               metaDataVal1,
               metaDataVal2,
               metaDataVal3,
               metaDataVal4,
               metaDataVal5 }
   STATUS      current
   DESCRIPTION
      "The SNMP trap that is generated by Skylight Analytics
```

```
      when a policies threshold
 is crossed"

   ::= { acdTrapsNotifications 1 }


acdTrapsSkylightGroup OBJECT-GROUP
   OBJECTS {   objectId,
               skylightObjectName,
               objectType,
               direction,
               policy,
               metric,
               alertType,
               source,
               processedTime,
               startTime,
               timestamp,
               policyName,
               alertState,
               thresholdValue,
               metaDataKey1,
               metaDataKey2,
               metaDataKey3,
               metaDataKey4,
               metaDataKey5,
               metaDataVal1,
               metaDataVal2,
               metaDataVal3,
               metaDataVal4,
               metaDataVal5
   }
   STATUS      current
   DESCRIPTION
      "."
   ::= { acdTrapsGroups 1 }


acdTrapsSkylightNotificationsGroup NOTIFICATION-GROUP
   NOTIFICATIONS {
      acdTrapSkylight
   }
   STATUS      current
   DESCRIPTION
      "Objects for Skylight Notifications group."
   ::= { acdTraps 100 }

acdTrapsSkylightComplience MODULE-COMPLIANCE
```

```
  STATUS      current
  DESCRIPTION
    "The compliance statement for support of the skylight module."
  MODULE
     MANDATORY-GROUPS {
        acdTrapsSkylightGroup,
        acdTrapsSkylightNotificationsGroup
     }
  ::= { acdTrapsCompliances 1}

--  This is the top-level object identifier registry used by Accedian
--  products for SNMP modules containing experimental MIB definitions.
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--    1) IETF work-in-process MIBs which have not been assigned a permanent
--       object identifier by the IANA.
--    2) Accedian work-in-process MIBs that have not achieved final
--       production quality or field experience.
--   NOTE: Support for MIBs under the this OID subtree is temporary and
--         changes to objects may occur without notice."

acdExperiment  OBJECT IDENTIFIER ::=
 { accedianMIB 4 }

acdServices OBJECT-IDENTITY
  STATUS  current
  DESCRIPTION
        "The root of Accedian's Services OIDs."
  ::= { accedianMIB 5 }



END
```

Found in path(s):
* /opt/cola/permits/1329091805_1736774020.4675434/0/adh-roadrunner-0-580-0-tar-gz/adh-roadrunner-0.580.0/mibs/ACCEDIAN-SMI.mib
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* /opt/cola/permits/1329091805_1736774020.4675434/0/adh-roadrunner-0-580-0-tar-gz/adh-roadrunner-0.580.0/main.go
* /opt/cola/permits/1329091805_1736774020.4675434/0/adh-roadrunner-0-580-0-tar-gz/adh-roadrunner-

0.580.0/cmd/data.go
* /opt/cola/permits/1329091805_1736774020.4675434/0/adh-roadrunner-0-580-0-tar-gz/adh-roadrunner-0.580.0/cmd/root.go
* /opt/cola/permits/1329091805_1736774020.4675434/0/adh-roadrunner-0-580-0-tar-gz/adh-roadrunner-0.580.0/cmd/login.go
* /opt/cola/permits/1329091805_1736774020.4675434/0/adh-roadrunner-0-580-0-tar-gz/adh-roadrunner-0.580.0/cmd/version.go
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Found in path(s):
* /opt/cola/permits/1329091805_1736774020.4675434/0/adh-roadrunner-0-580-0-tar-gz/adh-roadrunner-0.580.0/cmd/embedded.go
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// Special handling for the Flex's semi-proprietary 'compressed' overloading

Found in path(s):
* /opt/cola/permits/1329091805_1736774020.4675434/0/adh-roadrunner-0-580-0-tar-gz/adh-roadrunner-0.580.0/datasources/openMetricsParsing.go

1.1664 golang-jwt 4.2.0

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1.1665 libnsl 2.31

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* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/DateTypeAdapter.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/ConstructorConstructor.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/sql/SqlDateTypeAdapter.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/UnsafeAllocator.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/sql/SqlTimeTypeAdapter.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/LazilyParsedNumber.java
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* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/JsonTreeReader.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/TypeAdapterRuntimeTypeWrapper.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/CollectionTypeAdapterFactory.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/MapTypeAdapterFactory.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/TypeAdapterFactory.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/JsonReaderInternalAccess.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/ReflectiveTypeAdapterFactory.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/TypeAdapters.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/ObjectTypeAdapter.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/TypeAdapter.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/JsonTreeWriter.java
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* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/JsonObject.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/JsonArray.java
*
/opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/FieldNamingStrategy.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/annotations/SerializedName.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/JsonDeserializationContext.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/internal/Excluder.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/FieldNamingPolicy.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/internal/$Gson$Preconditions.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/internal/bind/DefaultDateTypeAdapter.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/JsonSerializationContext.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/JsonParseException.java
*
/opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/internal/ObjectConstructor.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/Gson.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/JsonIOException.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/reflect/TypeToken.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/JsonDeserializer.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/annotations/Expose.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/internal/Primitives.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/GsonBuilder.java
*
/opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/JsonSerializer.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/annotations/Since.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/JsonPrimitive.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/ExclusionStrategy.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/annotations/Until.java

* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/InstanceCreator.java
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* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/annotations/JsonAdapter.java
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* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/reflect/ReflectionAccessor.java
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* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/PreJava9DateFormatProvider.java
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* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/LongSerializationPolicy.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/FieldAttributes.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/JsonParser.java

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1.1674 prometheus-client 1.11.1

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1.1676 iancoleman-strcase 0.2.0

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* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/optimizers/impl/refl/nodes/ArrayLength.java

* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/optimizers/impl/refl/nodes/ArrayAccessor.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/optimizers/impl/refl/nodes/FunctionAccessor.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/optimizers/impl/refl/nodes/FieldAccessor.java
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/opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/optimizers/impl/refl/collection/MDArrayCreator.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/optimizers/impl/refl/nodes/MethodAccessorNH.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/optimizers/impl/refl/nodes/DynamicSetterAccessor.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/optimizers/impl/refl/nodes/ArrayAccessorNest.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/optimizers/impl/refl/nodes/BaseAccessor.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/optimizers/impl/refl/nodes/IndexedCharSeqAccessor.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/optimizers/impl/refl/collection/ArrayCreator.java
*
/opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/optimizers/impl/refl/nodes/Union.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/optimizers/impl/refl/nodes/ThisValueAccessor.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/optimizers/impl/refl/nodes/VariableAccessor.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/optimizers/impl/refl/nodes/ConstructorAccessor.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/optimizers/impl/refl/nodes/MapAccessorNest.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/optimizers/impl/refl/nodes/GetterAccessor.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/optimizers/impl/refl/nodes/IndexedCharSeqAccessorNest.java
*
/opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/optimizers/impl/refl/nodes/MethodAccessor.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/optimizers/impl/refl/nodes/DynamicFunctionAccessor.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/optimizers/impl/refl/nodes/StaticVarAccessorNH.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/optimizers/impl/refl/nodes/IndexedVariableAccessor.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/optimizers/impl/refl/nodes/StaticVarAccessor.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-

jar/org/mvel2/optimizers/impl/refl/nodes/MapAccessor.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/optimizers/impl/refl/nodes/ListAccessorNest.java
*
/opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/optimizers/impl/refl/nodes/GetterAccessorNH.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/optimizers/impl/refl/collection/ExprValueAccessor.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/optimizers/impl/refl/nodes/FieldAccessorNH.java
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* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/DataTypes.java
*
/opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/ConversionHandler.java
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* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/asm/FieldWriter.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/asm/Constants.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/asm/TypeReference.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/asm/ByteVector.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/asm/AnnotationWriter.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/asm/Frame.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/asm/MethodVisitor.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/asm/Context.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/asm/Symbol.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/asm/MethodTooLargeException.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/asm/ModuleVisitor.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/asm/ConstantDynamic.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/asm/TypePath.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/asm/signature/SignatureWriter.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/asm/Attribute.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/asm/SymbolTable.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/asm/signature/SignatureReader.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/asm/signature/SignatureVisitor.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/asm/Handle.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/asm/FieldVisitor.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/asm/CurrentFrame.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/asm/MethodWriter.java

* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/asm/ClassWriter.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/asm/Type.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/asm/Label.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/asm/AnnotationVisitor.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/asm/ClassTooLargeException.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/asm/Opcodes.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/asm/ClassVisitor.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/asm/Handler.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/asm/Edge.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/asm/ModuleWriter.java

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* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/asm/signature/package.html
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* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-

jar/org/mvel2/sh/command/file/DirList.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/ast/Contains.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-
jar/org/mvel2/templates/res/EndNode.java
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/opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-
jar/org/mvel2/ImmutableElementException.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-
jar/org/mvel2/templates/CompiledTemplate.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-
jar/org/mvel2/util/ThisLiteral.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-
jar/org/mvel2/PropertyAccessException.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-
jar/org/mvel2/compiler/ExecutableLiteral.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-
jar/org/mvel2/integration/PropertyHandlerFactory.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-
jar/org/mvel2/optimizers/dynamic/DynamicClassLoader.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-
jar/org/mvel2/conversion/BigDecimalCH.java
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/opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-
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* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-
jar/org/mvel2/ast/IndexedDeclTypedVarNode.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-
jar/org/mvel2/optimizers/OptimizationNotSupported.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-
jar/org/mvel2/templates/TemplateRegistry.java
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* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-
jar/org/mvel2/optimizers/AccessorOptimizer.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-
jar/org/mvel2/ast/AssertNode.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-
jar/org/mvel2/ast/AssignmentNode.java
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/opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-
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* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-
jar/org/mvel2/sh/CommandException.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-
jar/org/mvel2/sh/text/TextUtil.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-
jar/org/mvel2/ast/PostFixDecNode.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-

jar/org/mvel2/optimizers/impl/asm/ProducesBytecode.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/ast/ASTNode.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/ast/DoUntilNode.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/compiler/CompiledExpression.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/conversion/ObjectCH.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/optimizers/dynamic/DynamicSetAccessor.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/ast/DeepOperativeAssignmentNode.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/templates/TemplateRuntime.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/conversion/StringArrayCH.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/integration/impl/CachingMapVariableResolverFactory.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/templates/res/CompiledNamedIncludeNode.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/util/StringAppender.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/OptimizationFailure.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/integration/impl/TypeInjectionResolverFactory.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/MVELRuntime.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/templates/res/DeclareNode.java
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* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/optimizers/AbstractOptimizer.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/conversion/Converter.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/conversion/DoubleCH.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/sh/command/file/PrintWorkingDirectory.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/integration/Interceptor.java
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*
/opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-
jar/org/mvel2/templates/res/CompiledExpressionNode.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-
jar/org/mvel2/ast/DeepAssignmentNode.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-
jar/org/mvel2/integration/impl/BaseVariableResolverFactory.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-
jar/org/mvel2/util/ExecutionStack.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-
jar/org/mvel2/ast/ImportNode.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-
jar/org/mvel2/ast/IndexedAssignmentNode.java

* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/ast/ThisWithNode.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/conversion/IntegerCH.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/conversion/ArrayCH.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/templates/res/CompiledCodeNode.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/compiler/ExecutableAccessor.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/compiler/ExecutableStatement.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/compiler/AbstractParser.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/integration/impl/MapVariableResolver.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/ast/RegExMatchNode.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/ParserContext.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/ast/IndexedOperativeAssign.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/util/ASTLinkedList.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/templates/res/TerminalExpressionNode.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/util/Stack.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/conversion/CharArrayCH.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/sh/Main.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/sh/command/basic/ShowVars.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/util/InternalNumber.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/util/ParseTools.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/ast/WithNode.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/optimizers/dynamic/DynamicAccessor.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/compiler/CompiledAccExpression.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/ast/LineLabel.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/conversion/BooleanCH.java

* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/conversion/ArrayHandler.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/conversion/LongCH.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/sh/Command.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/templates/res/CompiledIncludeNode.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/ConversionException.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/conversion/IntArrayCH.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/optimizers/impl/asm/ASMAccessorOptimizer.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/PropertyAccessor.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/ast/IsDef.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/sh/CommandSet.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/templates/res/ForEachNode.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/math/MathProcessor.java
* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/compiler/AccessorNode.java

1.1680 perfmark-api 0.25.0

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1.1681 libxml2 2.9.14

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1.1682 http-proxy-middleware 2.0.6

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1.1683 cast 1.5.0

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1.1684 go-yaml 3.0.1

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1.1685 @jridgewell/source-map 0.3.2

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1.1686 kubernetes-client 1.5.2

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package cmd

import "strings"

//Licenses contains all possible licenses a user can chose from
var Licenses map[string]License

//License represents a software license agreement, containing the Name of
// the license, its possible matches (on the command line as given to cobra)
// the header to be used with each file on the file's creating,
 and the text
// of the license
type License struct {
 Name           string   // The type of license in use
 PossibleMatches []string // Similar names to guess
 Text           string   // License text data
 Header         string   // License header for source files
}

// given a license name (in), try to match the license indicated
func matchLicense(in string) string {
 for key, lic := range Licenses {
  for _, match := range lic.PossibleMatches {
   if strings.EqualFold(in, match) {
    return key
   }
  }
 }
 return ""
}

func init() {
 Licenses = make(map[string]License)

 Licenses["apache"] = License{
```

```
  Name:            "Apache 2.0",
  PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},
  Header: `
// Licensed under the Apache License, Version 2.0 (the "License");
// you may not use this file except in compliance with the License.
// You may obtain a copy of the License at
//
//     http://www.apache.org/licenses/LICENSE-2.0
//
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*/

// Package legal provides project-wide storage for compiled-in licenses.
package legal

var licenses []string

func init() {
 RegisterLicense(`
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`)
```

```
}

// RegisterLicense stores the license text.
// It doesn't check whether the text was already present.
func RegisterLicense(text string) {
 licenses = append(licenses, text)
 return
}

// Licenses returns a slice of the licenses.
func Licenses() []string {
 return licenses
}
```

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package github

import "fmt"

// LicensesService handles communication with the license related
// methods of the GitHub API.
//
// GitHub API docs: http://developer.github.com/v3/pulls/
type LicensesService struct {
 client *Client
}

// License represents an open source license.
type License struct {
 Key  *string `json:"key,omitempty"`
 Name *string `json:"name,omitempty"`
 URL  *string `json:"url,omitempty"`

 HTMLURL        *string   `json:"html_url,omitempty"`
 Featured       *bool     `json:"featured,omitempty"`
 Description    *string   `json:"description,omitempty"`
 Category       *string   `json:"category,omitempty"`
 Implementation *string   `json:"implementation,omitempty"`
 Required       *[]string `json:"required,omitempty"`
 Permitted      *[]string `json:"permitted,omitempty"`
 Forbidden      *[]string
 `json:"forbidden,omitempty"`
 Body           *string   `json:"body,omitempty"`
}

func (l License) String() string {
 return Stringify(l)
}

// List popular open source licenses.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List() ([]License, *Response, error) {
 req, err := s.client.NewRequest("GET", "licenses", nil)
 if err != nil {
```

```
 return nil, nil, err
}

// TODO: remove custom Accept header when this API fully launches
req.Header.Set("Accept", mediaTypeLicensesPreview)

licenses := new([]License)
resp, err := s.client.Do(req, licenses)
if err != nil {
 return nil, resp, err
}

return *licenses, resp, err
}

// Get extended metadata for one license.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(licenseName string) (*License, *Response, error) {
u := fmt.Sprintf("licenses/%s", licenseName)

req, err := s.client.NewRequest("GET", u, nil)
if
err != nil {
 return nil, nil, err
}

// TODO: remove custom Accept header when this API fully launches
req.Header.Set("Accept", mediaTypeLicensesPreview)

license := new(License)
resp, err := s.client.Do(req, license)
if err != nil {
 return nil, resp, err
}

return license, resp, err
}
```

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PACKAGE

package goautoneg
import "bitbucket.org/ww/goautoneg"

HTTP Content-Type Autonegotiation.

The functions in this package implement the behaviour specified in
http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html

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FUNCTIONS

func Negotiate(header string, alternatives []string) (content_type string)
Negotiate the most
appropriate content_type given the accept header
and a list of alternatives.

func ParseAccept(header string) (accept []Accept)
Parse an Accept Header string returning a sorted list
of clauses

TYPES

```
type Accept struct {
   Type, SubType string
   Q            float32
   Params       map[string]string
}
```
Structure to represent a clause in an HTTP Accept Header

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Buffruneio is a wrapper around bufio to provide buffered runes access with
unlimited unreads.

```go
import "github.com/pelletier/go-buffruneio"
```

Examples

```go
import (
   "fmt"
   "github.com/pelletier/go-buffruneio"
   "strings"
)

reader := buffruneio.NewReader(strings.NewReader("abcd"))
fmt.Println(reader.ReadRune())
 // 'a'
fmt.Println(reader.ReadRune()) // 'b'
fmt.Println(reader.ReadRune()) // 'c'
reader.UnreadRune()
reader.UnreadRune()
fmt.Println(reader.ReadRune()) // 'b'
fmt.Println(reader.ReadRune()) // 'c'
```

Documentation

The documentation and additional examples are available at
[godoc.org](http://godoc.org/github.com/pelletier/go-buffruneio).

Contribute

Feel free to report bugs and patches using GitHub's pull requests system on
[pelletier/go-toml](https://github.com/pelletier/go-buffruneio). Any feedback is
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Gocheck - A rich testing framework for Go

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL string `json:"url,omitempty"`
}
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mgo - MongoDB driver for Go

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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goproperties - properties file decoder for Go

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```
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*/

// Package legalprint provides a printing helper for the legal package.
package legalprint

import (
 "flag"
 "fmt"
 "io"

 "camlistore.org/pkg/legal"
)

var (
 flagLegal = flag.Bool("legal", false, "show licenses")
)

// MaybePrint will print the licenses if flagLegal has been set.
// It will return the value of the flagLegal.
func MaybePrint(out io.Writer) bool {
 if !*flagLegal {
```

```
 return false
 }
 for _, text := range legal.Licenses()
 {
  fmt.Fprintln(out, text)
 }
 return true
}
```

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Found in path(s):
* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/security/AuthHMAC384SHA512.java
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/util/TaskScheduler.java
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/log/LogProxy.java
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/security/UsmUserTable.java
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/transport/tls/X509TlsTransportMappingConfig.java
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/asn1/BERInputStream.java
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/security/PrivacyGeneric.java
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/smi/TransportIpAddress.java
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 _##
 _##  SNMP4J - Integer32.java
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/event/UsmUserEvent.java
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```
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 _##
```

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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/smi/Counter64.java
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 _##  SNMP4J - PrivAES256With3DESKeyExtension.java
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*
 /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/security/nonstandard/PrivAES256With3DESKeyExtension.java
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/smi/VariableBinding.java
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/util/AbstractSnmpUtility.java

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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/mp/PduHandle.java
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/util/TableUtils.java
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 _##  SNMP4J - DefaultTcpTransportMapping.java
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/smi/IpAddress.java
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/transport/UdpTransportMapping.java
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/smi/Counter32.java
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```
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/security/AuthGeneric.java
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/uri/SnmpURI.java
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/transport/ssh/SshSession.java
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/opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/security/TsmSecurityStateReference.java
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Found in path(s):
* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/security/Salt.java

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 _##  SNMP4J - MessageDispatcherImpl.java
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/MessageDispatcherImpl.java
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/util/VariableTextFormat.java
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 _##  SNMP4J - DefaultTlsTmSecurityCallback.java
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Found in path(s):
* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/transport/tls/DefaultTlsTmSecurityCallback.java
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/smi/TlsAddress.java
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 _##  SNMP4J - AbstractTarget.java
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/AbstractTarget.java
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 _##  SNMP4J - User.java
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/User.java
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 _##  SNMP4J - UnsupportedAddressClassException.java
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/transport/UnsupportedAddressClassException.java
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 _##  SNMP4J - AuthMD5.java
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 _##  SNMP4J - SnmpRequest.java
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 _##  SNMP4J - SnmpConstants.java
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/mp/SnmpConstants.java
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/opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/security/SecurityStateReference.java
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/smi/OctetString.java
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```
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 _##
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Found in path(s):
* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/security/AuthHMAC128SHA224.java
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```
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```
 _##  SNMP4J - PrivAES192With3DESKeyExtension.java
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*
/opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/security/nonstandard/PrivAES192With3DESKeyExtension.java
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Found in path(s):
* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/MutablePDU.java
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 _##  SNMP4J - PrivAES256.java
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/security/PrivAES256.java
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 _##  SNMP4J - TreeUtils.java
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Found in path(s):
* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/util/TreeUtils.java

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 _##  SNMP4J - PrivAES128.java
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/security/PrivAES128.java
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 _##  SNMP4J - PDUv1.java
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/PDUv1.java
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 _##  SNMP4J - MultiThreadedMessageDispatcher.java
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/util/MultiThreadedMessageDispatcher.java
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*
/opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/security/UsmSecurityStateReference.java
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 _##  SNMP4J - PrivDES.java
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/security/PrivDES.java
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/mp/MessageID.java
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/log/JavaLogFactory.java
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/transport/ConnectionOrientedTransportMapping.java
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/TransportMapping.java
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/mp/TimedMessageID.java
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/mp/MessageProcessingModel.java
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Found in path(s):
* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/transport/tls/TLSTMExtendedTrustManager.java
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```
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 _##
 _##  SNMP4J - AuthenticationFailureEvent.java
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Found in path(s):
* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/event/AuthenticationFailureEvent.java
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Found in path(s):
* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/mp/package.html
*

/opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/asn1/package.html
* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/util/package.html
* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/event/package.html
* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/smi/package.html
* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/security/package.html
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/transport/ssh/SshTransportAdapter.java
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 _##  SNMP4J - MultiThreadedTrapReceiver.java
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Found in path(s):
* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/test/MultiThreadedTrapReceiver.java
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 _##  SNMP4J - ReadonlyVariableCallback.java
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/smi/ReadonlyVariableCallback.java
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/util/PDUFactory.java
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 _##  SNMP4J - UsmSecurityParameters.java
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/security/UsmSecurityParameters.java
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/smi/AssignableFromString.java
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/util/TreeEvent.java
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/event/ResponseEvent.java
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/security/ByteArrayWindow.java
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/util/OIDTextFormat.java
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/security/UsmTimeTable.java
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 _##  SNMP4J - SchedulerTask.java
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```
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Found in path(s):
* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/CommunityTarget.java
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```
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 _##  SNMP4J - AuthSHA.java
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Found in path(s):

* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/security/AuthSHA.java
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 _##  SNMP4J - SnmpEngineEvent.java
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Found in path(s):
* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/event/SnmpEngineEvent.java
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 _##  SNMP4J - UsmTimeEntry.java
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/security/UsmTimeEntry.java
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 _##
 _##  SNMP4J - DHOperations.java
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/security/dh/DHOperations.java
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/transport/DefaultSshTransportMapping.java
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 _##  SNMP4J - BEROutputStream.java
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/asn1/BEROutputStream.java
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 _##  SNMP4J - TimerFactory.java
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 _##  SNMP4J - DHGroups.java
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/security/dh/DHGroups.java
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 _##  SNMP4J - SNMP4JSettings.java
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/SNMP4JSettings.java
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 _##  SNMP4J - Session.java
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*
/opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/security/nonstandard/NonStandardSecurityProtocol.java
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/transport/TransportStateEvent.java
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* /opt/cola/permits/1338421752_1654292966.211815/0/snmp4j-2-8-12-sources-jar/org/snmp4j/Snmp.java
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* https://github.com/eclipse-ee4j/jaxrs-api

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1.1691 kubernetes-apimachinery 0.23.4

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1.1692 kubernetes-client 0.23.4

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1.1694 go-redis-redis 8.11.5

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1.1695 facebookgo-clock 0.0.0-20150410010913-600d898af40a

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1.1696 go-zookeeper 0.0.0-20201211165307-7117e9ea2414

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1.1697 hazelcast-hazelcast-go-client 1.2.0

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1.1699 github.com/manicminer/hamilton 0.44.0

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1.1700 github.com/manicminer/hamilton-autorest 0.2.0

1.1700.1 Available under license :

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1.1701 github.com/apparentlymart/go-shquot 0.0.1

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1.1702 go-wordwrap 1.0.1

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1.1703 source-map 0.7.4

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1.1704 jakarta-validation-api 3.0.2

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* /opt/cola/permits/1343263537_1655119212.9029043/0/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/ValidateUnwrappedValue.java
* /opt/cola/permits/1343263537_1655119212.9029043/0/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/executable/ValidateOnExecution.java
* /opt/cola/permits/1343263537_1655119212.9029043/0/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/AssertTrue.java
* /opt/cola/permits/1343263537_1655119212.9029043/0/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ConstraintDefinitionException.java
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* /opt/cola/permits/1343263537_1655119212.9029043/0/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ValidatorContext.java
* /opt/cola/permits/1343263537_1655119212.9029043/0/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/CascadableDescriptor.java
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* /opt/cola/permits/1343263537_1655119212.9029043/0/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/Payload.java
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* /opt/cola/permits/1343263537_1655119212.9029043/0/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ConstraintDeclarationException.java
* /opt/cola/permits/1343263537_1655119212.9029043/0/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Email.java
* /opt/cola/permits/1343263537_1655119212.9029043/0/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Pattern.java
* /opt/cola/permits/1343263537_1655119212.9029043/0/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ElementKind.java
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/opt/cola/permits/1343263537_1655119212.9029043/0/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/executable/ExecutableValidator.java
* /opt/cola/permits/1343263537_1655119212.9029043/0/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/NotNull.java
* /opt/cola/permits/1343263537_1655119212.9029043/0/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/ElementDescriptor.java
* /opt/cola/permits/1343263537_1655119212.9029043/0/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Past.java
* /opt/cola/permits/1343263537_1655119212.9029043/0/jakarta-validation-api-3-0-2-sources-

jar/jakarta/validation/package-info.java
* /opt/cola/permits/1343263537_1655119212.9029043/0/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ClockProvider.java
* /opt/cola/permits/1343263537_1655119212.9029043/0/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Size.java
*
/opt/cola/permits/1343263537_1655119212.9029043/0/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/package-info.java
* /opt/cola/permits/1343263537_1655119212.9029043/0/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/PositiveOrZero.java
* /opt/cola/permits/1343263537_1655119212.9029043/0/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/bootstrap/ProviderSpecificBootstrap.java
* /opt/cola/permits/1343263537_1655119212.9029043/0/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Future.java
* /opt/cola/permits/1343263537_1655119212.9029043/0/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ConstraintTarget.java
* /opt/cola/permits/1343263537_1655119212.9029043/0/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/DecimalMax.java
* /opt/cola/permits/1343263537_1655119212.9029043/0/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/GroupSequence.java
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* /opt/cola/permits/1343263537_1655119212.9029043/0/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/BeanDescriptor.java
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*
/opt/cola/permits/1343263537_1655119212.9029043/0/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/valueextraction/ValueExtractor.java
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* /opt/cola/permits/1343263537_1655119212.9029043/0/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ConstraintValidatorContext.java
* /opt/cola/permits/1343263537_1655119212.9029043/0/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ConstraintViolation.java
* /opt/cola/permits/1343263537_1655119212.9029043/0/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraintvalidation/SupportedValidationTarget.java
* /opt/cola/permits/1343263537_1655119212.9029043/0/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/valueextraction/UnwrapByDefault.java

* /opt/cola/permits/1343263537_1655119212.9029043/0/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/Valid.java
*
 /opt/cola/permits/1343263537_1655119212.9029043/0/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/OverridesAttribute.java
* /opt/cola/permits/1343263537_1655119212.9029043/0/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/valueextraction/ValueExtractorDeclarationException.java
* /opt/cola/permits/1343263537_1655119212.9029043/0/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ConstraintValidator.java
* /opt/cola/permits/1343263537_1655119212.9029043/0/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/package-info.java
* /opt/cola/permits/1343263537_1655119212.9029043/0/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/executable/ExecutableType.java
* /opt/cola/permits/1343263537_1655119212.9029043/0/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/MethodType.java
* /opt/cola/permits/1343263537_1655119212.9029043/0/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/ContainerDescriptor.java
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 -->
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* /opt/cola/permits/1343263537_1655119212.9029043/0/jakarta-validation-api-3-0-2-sources-jar/META-INF/maven/jakarta.validation/jakarta.validation-api/pom.xml

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*
 /opt/cola/permits/1344982361_1655293790.326259/0/cas-client-support-saml-3-4-1-sources-jar/org/jasig/cas/client/validation/Saml11TicketValidator.java
* /opt/cola/permits/1344982361_1655293790.326259/0/cas-client-support-saml-3-4-1-sources-jar/org/jasig/cas/client/validation/Saml11TicketValidationFilter.java
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1.1709 spring-cloud-context 3.1.3

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* /opt/cola/permits/1344993212_1655295743.2854173/0/spring-cloud-context-3-1-3-sources-1-jar/org/springframework/cloud/bootstrap/BootstrapConfigFileApplicationListener.java
* /opt/cola/permits/1344993212_1655295743.2854173/0/spring-cloud-context-3-1-3-sources-1-jar/org/springframework/cloud/util/ConditionalOnBootstrapEnabled.java
* /opt/cola/permits/1344993212_1655295743.2854173/0/spring-cloud-context-3-1-3-sources-1-jar/org/springframework/cloud/bootstrap/encrypt/EnvironmentDecryptApplicationInitializer.java
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* /opt/cola/permits/1344993212_1655295743.2854173/0/spring-cloud-context-3-1-3-sources-1-jar/org/springframework/cloud/util/PropertyUtils.java
* /opt/cola/permits/1344993212_1655295743.2854173/0/spring-cloud-context-3-1-3-sources-1-jar/org/springframework/cloud/bootstrap/support/OriginTrackedCompositePropertySource.java
* /opt/cola/permits/1344993212_1655295743.2854173/0/spring-cloud-context-3-1-3-sources-1-jar/org/springframework/cloud/bootstrap/encrypt/AbstractEnvironmentDecrypt.java
* /opt/cola/permits/1344993212_1655295743.2854173/0/spring-cloud-context-3-1-3-sources-1-jar/org/springframework/cloud/bootstrap/TextEncryptorBindHandler.java
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* /opt/cola/permits/1344993212_1655295743.2854173/0/spring-cloud-context-3-1-3-sources-1-jar/org/springframework/cloud/context/scope/refresh/RefreshScopeRefreshedEvent.java
* /opt/cola/permits/1344993212_1655295743.2854173/0/spring-cloud-context-3-1-3-sources-1-jar/org/springframework/cloud/bootstrap/BootstrapImportSelectorConfiguration.java
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* /opt/cola/permits/1344993212_1655295743.2854173/0/spring-cloud-context-3-1-3-sources-1-jar/org/springframework/cloud/util/random/CachedRandomPropertySource.java
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* /opt/cola/permits/1344993212_1655295743.2854173/0/spring-cloud-context-3-1-3-sources-1-jar/org/springframework/cloud/context/scope/StandardScopeCache.java
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* /opt/cola/permits/1344993212_1655295743.2854173/0/spring-cloud-context-3-1-3-sources-1-jar/org/springframework/cloud/bootstrap/config/PropertySourceLocator.java
* /opt/cola/permits/1344993212_1655295743.2854173/0/spring-cloud-context-3-1-3-sources-1-jar/org/springframework/cloud/bootstrap/config/PropertySourceBootstrapConfiguration.java
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* /opt/cola/permits/1344993212_1655295743.2854173/0/spring-cloud-context-3-1-3-sources-1-jar/org/springframework/cloud/endpoint/event/RefreshEvent.java
* /opt/cola/permits/1344993212_1655295743.2854173/0/spring-cloud-context-3-1-3-sources-1-jar/org/springframework/cloud/bootstrap/LoggingSystemShutdownListener.java
* /opt/cola/permits/1344993212_1655295743.2854173/0/spring-cloud-context-3-1-3-sources-1-jar/org/springframework/cloud/context/environment/WritableEnvironmentEndpoint.java
* /opt/cola/permits/1344993212_1655295743.2854173/0/spring-cloud-context-3-1-3-sources-1-jar/org/springframework/cloud/autoconfigure/RefreshEndpointAutoConfiguration.java
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* /opt/cola/permits/1344993212_1655295743.2854173/0/spring-cloud-context-3-1-3-sources-1-jar/org/springframework/cloud/endpoint/event/RefreshEventListener.java
* /opt/cola/permits/1344993212_1655295743.2854173/0/spring-cloud-context-3-1-3-sources-1-jar/org/springframework/cloud/bootstrap/BootstrapImportSelector.java
* /opt/cola/permits/1344993212_1655295743.2854173/0/spring-cloud-context-3-1-3-sources-1-

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* /opt/cola/permits/1344993212_1655295743.2854173/0/spring-cloud-context-3-1-3-sources-1-jar/org/springframework/cloud/bootstrap/config/PropertySourceBootstrapProperties.java
* /opt/cola/permits/1344993212_1655295743.2854173/0/spring-cloud-context-3-1-3-sources-1-jar/org/springframework/cloud/context/scope/thread/ThreadScope.java
* /opt/cola/permits/1344993212_1655295743.2854173/0/spring-cloud-context-3-1-3-sources-1-jar/org/springframework/cloud/context/environment/EnvironmentChangeEvent.java
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* /opt/cola/permits/1344993212_1655295743.2854173/0/spring-cloud-context-3-1-3-sources-1-jar/org/springframework/cloud/env/EnvironmentUtils.java
* /opt/cola/permits/1344993212_1655295743.2854173/0/spring-cloud-context-3-1-3-sources-1-jar/org/springframework/cloud/bootstrap/config/SimpleBootstrapPropertySource.java
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* /opt/cola/permits/1344993212_1655295743.2854173/0/spring-cloud-context-3-1-3-sources-1-jar/org/springframework/cloud/context/environment/WritableEnvironmentEndpointWebExtension.java

1.1710 spring-cloud-starter-bootstrap 3.1.3

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1.1711 spring-cloud-commons 3.1.3

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1.1712 spring-cloud-starter 3.1.3

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1.1713 vectordotdev-go-datemath 0.1.1-0.20220323213446-f3954d0b18ae

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1.1716 go-kit-kit 0.12.0

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Bnd-LastModified: 1648465920192
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Bundle-ManifestVersion: 2
Bundle-Name: istack common utility code runtime
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Bundle-Version: 4.1.1
Created-By: Apache Maven Bundle Plugin 5.1.4
Export-Package: com.sun.istack;uses:="jakarta.activation,javax.xml.strea
m,org.xml.sax,org.xml.sax.helpers";version="4.1.1",com.sun.istack.local
ization;version="4.1.1",com.sun.istack.logging;version="4.1.1"
Implementation-Build-Id: 4.1.1 - d6e5d28
Implementation-Vendor: Eclipse Foundation
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Import-Package: jakarta.activation;version="[2.1,3)";resolution:=optiona
l,javax.xml.namespace,javax.xml.stream,org.xml.sax,org.xml.sax.helpers
Require-Capability:
 osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=11))"
Tool: Bnd-5.1.1.202006162103
```

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* /opt/cola/permits/1347861499_1662959328.9923127/0/istack-commons-runtime-4-1-1-jar/META-INF/MANIFEST.MF

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1.1721 activation-api 2.0.1

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1.1729 qs 6.11.0

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1.1730 @babel/plugin-proposal-optional-catch-binding 7.18.6

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1.1733 @babel/helper-explode-assignable-expression 7.18.6

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1.1735 @jridgewell/sourcemap-codec 1.4.14

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1.1736 @babel/helper-validator-option 7.18.6

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1.1738 @babel/plugin-bugfix-safari-id-destructuring-collision-in-function-expression 7.18.6

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1.1741 @babel/plugin-transform-shorthand-properties 7.18.6

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1.1743 @babel/plugin-proposal-class-static-block 7.18.6

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1.1745 @babel/plugin-transform-new-target 7.18.6

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1.1746 @babel/helper-annotate-as-pure 7.18.6

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1.1747 babel-plugin-transform-member-expression-literals 7.18.6

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1.1749 @babel/plugin-transform-block-scoped-functions 7.18.6

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1.1751 enhanced-resolve 5.10.0

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1.1757 @babel/plugin-transform-exponentiation-operator 7.18.6

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1.1758 postcss-custom-selectors 6.0.3

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1.1761 postcss-color-hex-alpha 8.0.4

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1.1762 http-parser-js 0.5.8

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- tests/iojs/test-http-parser-durability.js

This file is from https://github.com/mscdex/io.js/blob/js-http-parser/test/pummel/test-http-parser-durability.js
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tests/parallel/*
tests/testpy/*
tests/common.js
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1.1763 hashicorp-serf 0.9.5

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#+STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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* Regular
expression support

regexp/jimregexp.[ch]:

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Subsequently modified by:

1986 John Gilmore hoptoad!gnu
1987 James A. Woods ames!jaw
1993 Christopher Seiwald seiwald@vix.com
2000, 2002 Christopher Seiwald <seiwald@perforce.com>
2010 Steve Bennett <steveb@workware.net.au>
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regexp/utf8.[ch] (see regexp/LICENSE):

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1.1773 jcommander 1.82

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*
 /opt/cola/permits/1362173022_1657688436.1357603/0/jcommander-1-82-sources-jar/com/beust/jcommander/IUsageFormatter.java
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/opt/cola/permits/1362173022_1657688436.1357603/0/jcommander-1-82-sources-jar/com/beust/jcommander/ParameterException.java
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/opt/cola/permits/1362173022_1657688436.1357603/0/jcommander-1-82-sources-jar/com/beust/jcommander/converters/URIConverter.java
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* /opt/cola/permits/1362173022_1657688436.1357603/0/jcommander-1-82-sources-jar/com/beust/jcommander/internal/Sets.java
* /opt/cola/permits/1362173022_1657688436.1357603/0/jcommander-1-82-sources-jar/com/beust/jcommander/ParametersDelegate.java

1.1774 @babel/plugin-transform-react-display-name 7.18.6

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1.1778 builtin-modules 3.3.0

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1.1782 ws 7.5.9

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1.1783 @babel/plugin-transform-parameters 7.18.8

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1.1785 @babel/plugin-transform-function-name 7.18.9

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1.1789 @babel/plugin-transform-template-literals 7.18.9

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1.1790 @babel/plugin-transform-computed-properties 7.18.9

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1.1795 babel-plugin-proposal-optional-chaining 7.18.9

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1.1797 golang-jwt 3.2.1+incompatible

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1.1799 log4j-api 2.18.0

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1.1800 rsa 4.9

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1.1820 lib-pq 1.10.5

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```
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package pq

import (
 "context"
 "database/sql/driver"
)

// NoticeHandler returns the notice handler on the given connection, if any. A
// runtime panic occurs if c is not a pq connection. This is rarely used
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
 return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A
// runtime panic occurs if c is not a pq connection. A nil handler may be used
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and
// ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
 c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
//
 on it.
type NoticeHandlerConnector struct {
```

```
 driver.Connector
 noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
 c, err := n.Connector.Connect(ctx)
 if err == nil {
  SetNoticeHandler(c, n.noticeHandler)
 }
 return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  return c.noticeHandler
 }
 return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and
 setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  c.noticeHandler = handler
  return c
 }
 return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}
```

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1.1826 apache-aries-blueprint-core 1.10.3

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1.1827 @types/serve-static 1.15.0

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1.1828 github.com/go-kit/log 0.2.1

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1.1829 postcss-attribute-case-insensitive 5.0.2

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1.1830 postcss-selector-not 6.0.1

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1.1831 eslint-webpack-plugin 3.2.0

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1.1832 babel-plugin-syntax-flow 7.18.6

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1.1833 postcss-dir-pseudo-class 6.0.5

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1.1834 @csstools/postcss-stepped-value-functions 1.0.1

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1.1837 @csstools/postcss-hwb-function 1.0.2

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1.1838 mini-css-extract-plugin 2.6.1

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1.1839 postcss-pseudo-class-any-link 7.1.6

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1.1845 postcss-place 7.0.5

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1.1848 watchpack 2.4.0

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1.1849 postcss-gap-properties 3.0.5

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1.1855 postcss-color-rebeccapurple 7.1.1

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1.1856 lilconfig 2.0.6

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1.1858 babel-preset-typescript 7.18.6

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1.1860 postcss-lab-function 4.2.1

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1.1861 postcss-load-config 3.1.4

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1.1872 @types/eslint-scope 3.7.4

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1.1873 pcre 10.32-3.el8_6

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1.1874 @babel/plugin-transform-unicode-escapes 7.18.10

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1.1875 log4j-jcl 2.18.0

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1.1876 log4j-slf4j-impl 2.18.0

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1.1877 github.com/dlmiddlecote/sqlstats 1.0.2

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1.1878 dlmiddlecote-sqlstats 1.0.2

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1.1879 kubernetes-api 0.23.4

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jar/com/google/gson/JsonSerializer.java
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*
 /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/JsonStreamParser.java

1.1881 subzero-all 0.10

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1.1884 github.com/vmihailenco/tagparser/v2 2.0.0

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1.1886 github.com/vmihailenco/msgpack/v5 5.3.5

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1.1893 blugelabs-bluge_segment_api 0.2.0

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1.1896 blugelabs-bluge 0.1.9

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1.1897 github.com/axiomhq/hyperloglog 0.0.0-20191112132149-a4c4c47bc57f

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1.1898 emicklei-proto 1.10.0

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1.1899 github.com/blugelabs/bluge 0.1.9

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1.1900 github.com/emicklei/proto 1.10.0

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1.1901 github.com/vectordotdev/go-datemath 0.1.1-0.20220323213446-f3954d0b18ae

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1.1902 zlib 1.2.11.dfsg-2+deb11u2

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* Copyright (C) 1995-2017 Jean-loup Gailly
* detect_data_type() function provided freely by Cosmin Truta, 2006
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*/

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* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/trees.c
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* version 2.2, 14 Aug 2012
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Introduction

MiniZip 1.1 is built from MiniZip 1.0 by Gilles Vollant (http://www.winimage.com/zLibDll/minizip.html)

When adding ZIP64 support into minizip it would result into risk of breaking compatibility with minizip 1.0.
All possible work was done for compatibility.

Background

When adding ZIP64 support Mathias Svensson found that Even Rouault have added ZIP64
support for unzip.c into minizip for a open source project called gdal (http://www.gdal.org/)

That was used as a starting point. And after that ZIP64 support was added to zip.c
some refactoring and code cleanup was also done.

Changed from MiniZip 1.0 to MiniZip 1.1
---
* Added ZIP64 support for unzip (by Even Rouault)
* Added ZIP64 support for zip (by Mathias Svensson
)
* Reverted some changed that Even Rouault did.
* Bunch of patches received from Gulles Vollant that he received for MiniZip from various users.
* Added unzip patch for BZIP Compression method (patch create by Daniel Borca)
* Added BZIP Compress method for zip
* Did some refactoring and code cleanup

Credits

Gilles Vollant - Original MiniZip author
Even Rouault - ZIP64 unzip Support
Daniel Borca - BZip Compression method support in unzip
Mathias Svensson - ZIP64 zip support
Mathias Svensson - BZip Compression method support in zip

Resources

ZipLayout http://result42.com/projects/ZipFileLayout
Command line tool for Windows that shows the layout and information of the headers in a zip archive.
Used when debugging and validating the creation of zip files using MiniZip64

ZIP App Note http://www.pkware.com/documents/casestudies/APPNOTE.TXT
Zip File specification

Notes.
* To be able to use BZip compression method in

zip64.c or unzip64.c the BZIP2 lib is needed and HAVE_BZIP2 need to be defined.

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/* zpipe.c: example of proper use of zlib's inflate() and deflate()
  Not copyrighted -- provided to the public domain
  Version 1.4 11 December 2005 Mark Adler */

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* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zpipe.c
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/* unzip.h -- IO for uncompress .zip files using zlib
  Version 1.1, February 14h, 2010
  part of the MiniZip project - (http://www.winimage.com/zLibDll/minizip.html)

Copyright (C) 1998-2010 Gilles Vollant (minizip) (http://www.winimage.com/zLibDll/minizip.html)

Modifications of Unzip for Zip64
Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip
Copyright (C) 2009-2010 Mathias Svensson (http://result42.com)

For more info read MiniZip_info.txt

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Changes

See header of unzip64.c

*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.h
No license file was found, but licenses were detected in source scan.

/* unzip.c -- IO for uncompress .zip files using zlib
  Version 1.1, February 14h, 2010
  part of the MiniZip project - (http://www.winimage.com/zLibDll/minizip.html)

Copyright (C) 1998-2010 Gilles Vollant (minizip) (http://www.winimage.com/zLibDll/minizip.html)

Modifications of Unzip for Zip64
Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip
Copyright (C) 2009-2010 Mathias Svensson (http://result42.com)

For more info read MiniZip_info.txt

Decryption code comes from crypt.c by Info-ZIP but has been greatly reduced in terms of compatibility with older software. The following is from the original crypt.c.
Code woven in by Terry Thorsen 1/2003.

Copyright (c) 1990-2000 Info-ZIP. All rights reserved.

See the accompanying
file LICENSE, version 2000-Apr-09 or later
(the contents of which are also included in zip.h) for terms of use.
If, for some reason, all these files are missing, the Info-ZIP license
also may be found at: ftp://ftp.info-zip.org/pub/infozip/license.html

crypt.c (full version) by Info-ZIP. Last revised: [see crypt.h]

The encryption/decryption parts of this source code (as opposed to the
non-echoing password parts) were originally written in Europe. The
whole source package can be freely distributed, including from the USA.
(Prior to January 2000, re-export from the US was a violation of US law.)

This encryption code is a direct transcription of the algorithm from
Roger Schlafly, described by Phil Katz in the file appnote.txt. This
file (appnote.txt) is distributed with the PKZIP program (even in the
version without encryption capabilities).

Changes in unzip.c

2007-2008 - Even Rouault - Addition of cpl_unzGetCurrentFileZStreamPos
2007-2008 - Even Rouault - Decoration of symbol names unz* -> cpl_unz*
2007-2008 - Even Rouault - Remove old C style function prototypes
2007-2008 - Even Rouault - Add unzip support for ZIP64

Copyright (C) 2007-2008 Even Rouault

Oct-2009 - Mathias Svensson - Removed cpl_* from symbol names (Even Rouault added them but since this is now moved to a new project (minizip64) I renamed them again).
Oct-2009 - Mathias Svensson - Fixed problem if uncompressed size was > 4G and compressed size was <4G
should only read the compressed/uncompressed size from the Zip64 format if
the size from normal header was 0xFFFFFFFF

Oct-2009 - Mathias Svensson - Applied some bug fixes from paches recived from Gilles Vollant
Oct-2009 - Mathias Svensson - Applied support to unzip files with compression mathod
BZIP2 (bzip2 lib is required)
Patch created by Daniel Borca

Jan-2010 - back to unzip and minizip 1.0 name scheme, with compatibility layer

Copyright (C) 1998 - 2010 Gilles Vollant, Even Rouault, Mathias Svensson

*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.c
No license file was found, but licenses were detected in source scan.

/* adler32.c -- compute the Adler-32 checksum of a data stream
* Copyright (C) 1995-2011, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/adler32.c
No license file was found, but licenses were detected in source scan.

/* fitblk.c: example of fitting compressed output to a specified size
  Not copyrighted -- provided to the public domain
  Version 1.1 25 November 2004 Mark Adler */

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/fitblk.c
No license file was found, but licenses were detected in source scan.

/*
 Additional tools for Minizip
 Code: Xavier Roche '2004
 License: Same as ZLIB (www.gzip.org)
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.c
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.h
No license file was found, but licenses were detected in source scan.

/* gzclose.c -- zlib gzclose() function

* Copyright (C) 2004, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzclose.c
No license file was found, but licenses were detected in source scan.

/* gzwrite.c -- zlib functions for writing gzip files
* Copyright (C) 2004-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzwrite.c
No license file was found, but licenses were detected in source scan.

/* inffast.h -- header to use inffast.c
* Copyright (C) 1995-2003, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.h
No license file was found, but licenses were detected in source scan.

/* deflate.h -- internal compression state
* Copyright (C) 1995-2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.h
No license file was found, but licenses were detected in source scan.

/* zip.h -- IO on .zip files using zlib
  Version 1.1, February 14h, 2010
  part of the MiniZip project - (http://www.winimage.com/zLibDll/minizip.html)

  Copyright (C) 1998-2010 Gilles Vollant (minizip) (http://www.winimage.com/zLibDll/minizip.html)

  Modifications for Zip64 support
  Copyright (C) 2009-2010 Mathias Svensson (http://result42.com)

  For more info read MiniZip_info.txt

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2. Altered source versions must be plainly marked as such, and must not be
   misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

Changes

See header of zip.h

*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/zip.h
No license file was found, but licenses were detected in source scan.

/* gzjoin -- command to join gzip files into one gzip file

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version 1.2, 14 Aug 2012

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3. This
notice may not be removed or altered from any source distribution.

Mark Adler madler@alumni.caltech.edu
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzjoin.c
No license file was found, but licenses were detected in source scan.

/* compress.c -- compress a memory buffer
* Copyright (C) 1995-2005, 2014, 2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/compress.c
No license file was found, but licenses were detected in source scan.

/* zconf.h -- configuration of the zlib compression library
* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.cmakein
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.in
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h
No license file was found, but licenses were detected in source scan.

/* gzread.c -- zlib functions for reading gzip files
* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzread.c
No license file was found, but licenses were detected in source scan.

/* zran.c -- example of zlib/gzip stream indexing and random access
* Copyright (C) 2005, 2012 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
Version 1.1 29 Sep 2012 Mark Adler */

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zran.c
No license file was found, but licenses were detected in source scan.

/* deflate.c -- compress data using the deflation algorithm
* Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.c
No license file was found, but licenses were detected in source scan.

/* inffast.c -- fast decoding
* Copyright (C) 1995-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.c
No license file was found, but licenses were detected in source scan.

/* inftrees.c -- generate Huffman trees for efficient decoding
* Copyright (C) 1995-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.c
No license file was found, but licenses were detected in source scan.

/* inftrees.h -- header to use inftrees.c
* Copyright (C) 1995-2005, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.h
No license file was found, but licenses were detected in source scan.

/* inflate.c -- zlib decompression
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.c
No license file was found, but licenses were detected in source scan.

/* zutil.h -- internal interface and configuration of the compression library
* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.h
No license file was found, but licenses were detected in source scan.

/* uncompr.c -- decompress a memory buffer
* Copyright (C) 1995-2003, 2010, 2014, 2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/uncompr.c
No license file was found, but licenses were detected in source scan.

/* zutil.c -- target dependent utility functions for the compression library
* Copyright (C) 1995-2017 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.c
No license file was found, but licenses were detected in source scan.

/* example.c -- usage example of the zlib compression library
* Copyright (C) 1995-2006, 2011, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/example.c
No license file was found, but licenses were detected in source scan.

/* infcover.c -- test zlib's inflate routines with full code coverage
* Copyright (C) 2011, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/infcover.c

No license file was found, but licenses were detected in source scan.

/* gzlib.c -- zlib functions common to reading and writing gzip files
* Copyright (C) 2004-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzlib.c
No license file was found, but licenses were detected in source scan.

/* gun.c -- simple gunzip to give an example of the use of inflateBack()
* Copyright (C) 2003, 2005, 2008, 2010, 2012 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
  Version 1.7 12 August 2012 Mark Adler */

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gun.c
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Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zlib_how.html
No license file was found, but licenses were detected in source scan.

/* infback.c -- inflate using a call-back interface
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/infback.c
No license file was found, but licenses were detected in source scan.

/* gzlog.h
 Copyright (C) 2004, 2008, 2012 Mark Adler, all rights reserved
 version 2.2, 14 Aug 2012

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Mark Adler madler@alumni.caltech.edu
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.h
No license file was found, but licenses were detected in source scan.

/* gzappend -- command to append to a gzip file

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version 1.2, 11 Oct 2012

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*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzappend.c
No license file was found, but licenses were detected in source scan.

ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.11 is a general purpose data compression library. All the code is thread safe. The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

All functions of the compression library are documented in the file zlib.h (volunteer to write man pages welcome, contact zlib@gzip.org). A usage example of the library is given in the file test/example.c which also tests that the library is working correctly. Another example is given in the file test/minigzip.c. The compression library itself is composed of all source files in the root directory.

To compile all files and run the test program, follow the instructions given at the top of Makefile.in. In short "./configure; make test", and if that goes well, "make install" should work
for most flavors of Unix. For Windows, use
one of the special makefiles in win32/ or contrib/vstudio/ . For VMS, use make_vms.com.

Questions about zlib should be sent to <zlib@gzip.org>, or to Gilles Vollant <info@winimage.com> for the Windows DLL version. The zlib home page is http://zlib.net/ . Before reporting a problem, please check this site to verify that you have the latest version of zlib; otherwise get the latest version and check whether the problem still exists or not.

PLEASE read the zlib FAQ http://zlib.net/zlib_faq.html before asking for help.

Mark Nelson <markn@ieee.org> wrote an article about zlib for the Jan. 1997 issue of Dr. Dobb's Journal; a copy of the article is available at http://marknelson.us/1997/01/01/zlib-engine/ .

The changes made in version 1.2.11 are documented in the file ChangeLog.

Unsupported third party contributions are provided in directory contrib/ .

zlib is available in Java using the java.util.zip package, documented at http://java.sun.com/developer/technicalArticles/Programming/compression/
.

A Perl interface to zlib written by Paul Marquess <pmqs@cpan.org> is available at CPAN (Comprehensive Perl Archive Network) sites, including http://search.cpan.org/~pmqs/IO-Compress-Zlib/ .

A Python interface to zlib written by A.M. Kuchling <amk@amk.ca> is available in Python 1.5 and later versions, see

http://docs.python.org/library/zlib.html .

zlib is built into tcl: http://wiki.tcl.tk/4610 .

An experimental package to read and write files in .zip format, written on top of zlib by Gilles Vollant <info@winimage.com>, is available in the contrib/minizip directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see win32/DLL_FAQ.txt

- For 64-bit Irix, deflate.c must be compiled without any optimization. With -O, one libpng test fails. The test works in 32 bit mode (with the -n32 compiler flag). The compiler bug has been reported to SGI.

- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under OSF/1 2.1 it works when compiled with cc.

- On Digital Unix 4.0D (formely OSF/1) on AlphaServer, the cc option -std1 is necessary to get gzprintf working correctly. This is done by configure.

- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with other compilers. Use "make test" to check your compiler.

- gzdopen is not supported on RISCOS or BEOS.

- For PalmOs, see http://palmzlib.sourceforge.net/

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by L. Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

If you use the zlib library in a product, we would appreciate *not* receiving
lengthy legal documents to sign. The sources are provided for free but without
warranty of any kind. The library has been entirely written by Jean-loup
Gailly and Mark Adler; it does not include
third-party code.

If you redistribute modified sources, we would appreciate that you include in
the file ChangeLog history information documenting your changes. Please read
the FAQ for more information on the distribution of modified source versions.

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/README
No license file was found, but licenses were detected in source scan.

/* crc32.c -- compute the CRC-32 of a data stream
* Copyright (C) 1995-2006, 2010, 2011, 2012, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*
* Thanks to Rodney Brown <rbrown64@csc.com.au> for his contribution of faster
* CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing
* tables for updating the shift register in one step with three exclusive-ors
* instead of four steps with four exclusive-ors. This results in about a
* factor of two increase in speed on a Power PC G4 (PPC7455) using gcc -O3.
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/crc32.c
No license file was found, but licenses were detected in source scan.

/* gzguts.h -- zlib internal header definitions for gz* operations
* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzguts.h
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Frequently Asked Questions about zlib

If your question is not there, please check the zlib home page
http://zlib.net/ which may have more recent information.
The lastest zlib FAQ is at http://zlib.net/zlib_faq.html

1. Is zlib Y2K-compliant?

Yes. zlib doesn't handle dates.

2. Where can I get a Windows DLL version?

The zlib sources can be compiled without change to produce a DLL. See the file win32/DLL_FAQ.txt in the zlib distribution. Pointers to the precompiled DLL are found in the zlib web site at http://zlib.net/ .

3. Where can I get a Visual Basic interface to zlib?

See
* http://marknelson.us/1997/01/01/zlib-engine/
* win32/DLL_FAQ.txt in the zlib distribution

4. compress() returns Z_BUF_ERROR.

Make sure that before the call of compress(), the length of the compressed buffer is equal to the available size of the compressed buffer and not zero. For Visual
Basic, check that this parameter is passed by reference ("as any"), not by value ("as long").

5. deflate() or inflate() returns Z_BUF_ERROR.

Before making the call, make sure that avail_in and avail_out are not zero. When setting the parameter flush equal to Z_FINISH, also make sure that avail_out is big enough to allow processing all pending input. Note that a Z_BUF_ERROR is not fatal--another call to deflate() or inflate() can be made with more input or output space. A Z_BUF_ERROR may in fact be unavoidable depending on how the functions are used, since it is not possible to tell whether or not there is more output pending when strm.avail_out returns with zero. See http://zlib.net/zlib_how.html for a heavily annotated example.

6. Where's the zlib documentation (man pages, etc.)?

It's in zlib.h . Examples of zlib usage are in the files test/example.c and test/minigzip.c, with more in examples/ .

7. Why don't you use GNU autoconf or libtool or ...?

Because we would like to keep zlib as a very small and simple package. zlib is rather portable and doesn't need much configuration.

8. I found a bug in zlib.

Most of the time, such problems are due to an incorrect usage of zlib. Please try to reproduce the problem with a small program and send the corresponding source to us at zlib@gzip.org . Do not send multi-megabyte data files without prior agreement.

9. Why do I get "undefined reference to gzputc"?

If "make test" produces something like

example.o(.text+0x154): undefined reference to `gzputc'

check that you don't have old files libz.* in /usr/lib, /usr/local/lib or /usr/X11R6/lib. Remove any old versions, then do "make install".

10. I need a Delphi interface to zlib.

See the contrib/delphi directory in the zlib distribution.

11. Can zlib handle .zip archives?

Not by itself, no. See the directory contrib/minizip in the zlib distribution.

12. Can zlib handle .Z files?

No, sorry. You have to spawn an uncompress or gunzip subprocess, or adapt the code of uncompress on your own.

13. How can I make a Unix shared library?

By default a shared (and a static) library is built for Unix. So:

make distclean

```
./configure
make
```

14. How do I install a shared zlib library on Unix?

After the above, then:

```
make install
```

However, many flavors of Unix come with a shared zlib already installed. Before going to the trouble of compiling a shared version of zlib and trying to install it, you may want to check if it's already there! If you can #include <zlib.h>, it's there. The -lz option will probably link to it. You can check the version at the top of zlib.h or with the ZLIB_VERSION symbol defined in zlib.h .

15. I have a question about OttoPDF.

We are not the authors of OttoPDF. The real author is on the OttoPDF web site: Joel Hainley, jhainley@myndkryme.com.

16.
Can zlib decode Flate data in an Adobe PDF file?

Yes. See http://www.pdflib.com/ . To modify PDF forms, see http://sourceforge.net/projects/acroformtool/ .

17. Why am I getting this "register_frame_info not found" error on Solaris?

After installing zlib 1.1.4 on Solaris 2.6, running applications using zlib generates an error such as:

```
ld.so.1: rpm: fatal: relocation error: file /usr/local/lib/libz.so:
symbol __register_frame_info: referenced symbol not found
```

The symbol __register_frame_info is not part of zlib, it is generated by the C compiler (cc or gcc). You must recompile applications using zlib which have this problem. This problem is specific to Solaris. See http://www.sunfreeware.com for Solaris versions of zlib and applications using zlib.

18. Why does gzip give an error on a file I make with compress/deflate?

The compress and deflate functions produce data in the zlib format, which is different and incompatible
with the gzip format. The gz* functions in
zlib on the other hand use the gzip format. Both the zlib and gzip formats use the same compressed data format internally, but have different headers

and trailers around the compressed data.

19. Ok, so why are there two different formats?

The gzip format was designed to retain the directory information about a single file, such as the name and last modification date. The zlib format on the other hand was designed for in-memory and communication channel applications, and has a much more compact header and trailer and uses a faster integrity check than gzip.

20. Well that's nice, but how do I make a gzip file in memory?

You can request that deflate write the gzip format instead of the zlib format using deflateInit2(). You can also request that inflate decode the gzip format using inflateInit2(). Read zlib.h for more details.

21. Is zlib thread-safe?

Yes. However any library routines that zlib uses and any application-provided memory allocation routines must also be thread-safe. zlib's gz* functions use stdio library routines, and most of zlib's functions use the library memory allocation routines by default. zlib's *Init* functions allow for the application to provide custom memory allocation routines.

Of course, you should only operate on any given zlib or gzip stream from a single thread at a time.

22. Can I use zlib in my commercial application?

Yes. Please read the license in zlib.h.

23. Is zlib under the GNU license?

No. Please read the license in zlib.h.

24. The license says that altered source versions must be "plainly marked". So what exactly do I need to do to meet that requirement?

You need to change the ZLIB_VERSION and ZLIB_VERNUM #defines in zlib.h. In particular, the final version number needs to be changed to "f", and an identification string should be appended to ZLIB_VERSION. Version numbers x.x.x.f are reserved for modifications to zlib by others than the zlib maintainers. For example, if the version of the base zlib you are altering is "1.2.3.4", then in zlib.h you should change ZLIB_VERNUM to 0x123f, and ZLIB_VERSION to something like "1.2.3.f-zachary-mods-v3". You can also update the version strings in deflate.c and inftrees.c.

For altered source distributions, you should also note the origin and nature of the changes in zlib.h, as well as in ChangeLog and README, along with the dates of the alterations. The origin should include at least your name (or your company's name), and an email address to contact for help or issues with the library.

Note that distributing a compiled zlib library along with zlib.h and zconf.h is also a source distribution, and so you should change ZLIB_VERSION and ZLIB_VERNUM and note the origin and nature of the changes in zlib.h as you would for a full source distribution.

25. Will zlib work on a big-endian or little-endian architecture, and can I exchange compressed data between them?

Yes and yes.

26. Will zlib work on a 64-bit machine?

Yes. It has been tested on 64-bit machines, and has no dependence on any data types being limited to 32-bits in length. If you have any difficulties, please provide a complete problem report to zlib@gzip.org

27. Will zlib decompress data from the PKWare Data Compression Library?

No. The PKWare DCL uses a completely different compressed data format than does PKZIP and zlib. However, you can look in zlib's contrib/blast directory for a possible solution to your problem.

28. Can I access data randomly in a compressed stream?

No, not without some preparation. If when compressing you periodically use Z_FULL_FLUSH, carefully write all the pending data at those points, and keep an index of those locations, then you can start decompression at those points. You have to be careful to not use Z_FULL_FLUSH too often, since it can significantly degrade compression. Alternatively, you can scan a deflate stream once to generate an index, and then use that index for random access. See examples/zran.c .

29. Does zlib work on MVS, OS/390, CICS, etc.?

It has in the past, but we have not heard of any recent evidence. There were working ports of zlib 1.1.4 to MVS, but those links no longer work. If you know of recent, successful applications of zlib on these operating systems, please let us know. Thanks.

30. Is there some simpler, easier to read version of inflate I can look at to

understand the deflate format?

First off, you should read RFC 1951. Second, yes. Look in zlib's contrib/puff directory.

31. Does zlib infringe on any patents?

As far as we know, no. In fact, that was originally the whole point behind zlib. Look here for some more information:

http://www.gzip.org/#faq11

32. Can zlib work
with greater than 4 GB of data?

Yes. inflate() and deflate() will process any amount of data correctly. Each call of inflate() or deflate() is limited to input and output chunks of the maximum value that can be stored in the compiler's "unsigned int" type, but there is no limit to the number of chunks. Note however that the strm.total_in and strm_total_out counters may be limited to 4 GB. These counters are provided as a convenience and are not used internally by inflate() or deflate(). The application can easily set up its own counters updated after each call of inflate() or deflate() to count beyond 4 GB. compress() and uncompress() may be limited to 4 GB, since they operate in a single call. gzseek() and gztell() may be limited to 4 GB depending on how zlib is compiled. See the zlibCompileFlags() function in zlib.h.

The word "may" appears several times above since there is a 4 GB limit only if the compiler's "long" type is
32 bits. If the compiler's "long" type is
64 bits, then the limit is 16 exabytes.

33. Does zlib have any security vulnerabilities?

The only one that we are aware of is potentially in gzprintf(). If zlib is compiled to use sprintf() or vsprintf(), then there is no protection against a buffer overflow of an 8K string space (or other value as set by gzbuffer()), other than the caller of gzprintf() assuring that the output will not exceed 8K. On the other hand, if zlib is compiled to use snprintf() or vsnprintf(), which should normally be the case, then there is no vulnerability. The ./configure script will display warnings if an insecure variation of sprintf() will be used by gzprintf(). Also the zlibCompileFlags() function will return information on what variant of sprintf() is used by gzprintf().

If you don't have snprintf() or vsnprintf() and would like one, you can find a portable implementation here:

http://www.ijs.si/software/snprintf/

Note that you should be using the most recent version of zlib. Versions 1.1.3 and before were subject to a double-free vulnerability, and versions 1.2.1 and 1.2.2 were subject to an access exception when decompressing invalid compressed data.

34. Is there a Java version of zlib?

Probably what you want is to use zlib in Java. zlib is already included as part of the Java SDK in the java.util.zip package. If you really want a version of zlib written in the Java language, look on the zlib home page for links: http://zlib.net/ .

35. I get this or that compiler or source-code scanner warning when I crank it up to maximally-pedantic. Can't you guys write proper code?

Many years ago, we gave up attempting to avoid warnings on every compiler in the universe. It just got to be a waste of time, and some compilers were downright silly as well as contradicted each other. So now, we simply make sure that the code always
works.

36. Valgrind (or some similar memory access checker) says that deflate is performing a conditional jump that depends on an uninitialized value. Isn't that a bug?

No. That is intentional for performance reasons, and the output of deflate is not affected. This only started showing up recently since zlib 1.2.x uses malloc() by default for allocations, whereas earlier versions used calloc(), which zeros out the allocated memory. Even though the code was correct, versions 1.2.4 and later was changed to not stimulate these checkers.

37. Will zlib read the (insert any ancient or arcane format here) compressed data format?

Probably not. Look in the comp.compression FAQ for pointers to various formats and associated software.

38. How can I encrypt/decrypt zip files with zlib?

zlib doesn't support encryption. The original PKZIP encryption is very weak and can be broken with freely available programs. To get strong encryption,
use GnuPG, http://www.gnupg.org/ , which already includes zlib compression. For PKZIP compatible "encryption", look at http://www.info-zip.org/

39. What's the difference between the "gzip" and "deflate" HTTP 1.1 encodings?

"gzip" is the gzip format, and "deflate" is the zlib format. They should probably have called the second one "zlib" instead to avoid confusion with the raw deflate compressed data format. While the HTTP 1.1 RFC 2616 correctly points to the zlib specification in RFC 1950 for the "deflate" transfer encoding, there have been reports of servers and browsers that incorrectly produce or expect raw deflate data per the deflate specification in RFC 1951, most notably Microsoft. So even though the "deflate" transfer encoding using the zlib format would be the more efficient approach (and in fact exactly what the zlib format was designed for), using the "gzip" transfer encoding is probably more reliable due to an
unfortunate choice of name on the part of the HTTP 1.1 authors.

Bottom line: use the gzip format for HTTP 1.1 encoding.

40. Does zlib support the new "Deflate64" format introduced by PKWare?

No. PKWare has apparently decided to keep that format proprietary, since they have not documented it as they have previous compression formats. In any case, the compression improvements are so modest compared to other more modern approaches, that it's not worth the effort to implement.

41. I'm having a problem with the zip functions in zlib, can you help?

There are no zip functions in zlib. You are probably using minizip by Giles Vollant, which is found in the contrib directory of zlib. It is not part of zlib. In fact none of the stuff in contrib is part of zlib. The files in there are not supported by the zlib authors. You need to contact the authors of the respective contribution for help.

42. The match.asm code in contrib is under the GNU General
Public License.
Since it's part of zlib, doesn't that mean that all of zlib falls under the GNU GPL?

No. The files in contrib are not part of zlib. They were contributed by other authors and are provided as a convenience to the user within the zlib distribution. Each item in contrib has its own license.

43. Is zlib subject to export controls? What is its ECCN?

zlib is not subject to export controls, and so is classified as EAR99.

44. Can you please sign these lengthy legal documents and fax them back to us so that we can use your software in our product?

No. Go away. Shoo.

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/FAQ
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* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.3
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/* minigzip.c -- simulate gzip using the zlib compression library
* Copyright (C) 1995-2006, 2010, 2011, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/minigzip.c
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/* inflate.h -- internal inflate state definition
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.h
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Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.dj2
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/Makefile.emx
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.emx
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/os2/Makefile.os2
No license file was found, but licenses were detected in source scan.

/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for
Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950
(zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.h

1.1903 datadog-dd-trace-go 1.41.0

1.1903.1 Available under license :

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1.1904 animal-sniffer-annotation 1.21

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1.1905 error_prone_annotations 2.14.0

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1.1906 packaging 21.3

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1.1908 python-dateutil 2.8.2

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moduleName = groovy-extensions
moduleVersion = 2.0.0
extensionClasses = nz.net.ultraq.groovy.extensions.BlockingQueueExtensions,
nz.net.ultraq.groovy.extensions.ByteArrayExtensions,
nz.net.ultraq.groovy.extensions.ByteBufferExtensions,
nz.net.ultraq.groovy.extensions.ExecutorServiceExtensions,
                nz.net.ultraq.groovy.extensions.MapExtensions,
nz.net.ultraq.groovy.extensions.ObjectExtensions,
nz.net.ultraq.groovy.extensions.SemaphoreExtensions,
nz.net.ultraq.groovy.extensions.ShortBufferExtensions
staticExtensionClasses = nz.net.ultraq.groovy.extensions.ByteBufferStaticExtensions,
nz.net.ultraq.groovy.extensions.MathStaticExtensions
```

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* /opt/cola/permits/1403526549_1661875320.5073147/0/groovy-extensions-2-0-0-jar/META-INF/services/org.codehaus.groovy.runtime.ExtensionModule

1.1914 pyyaml 6.0

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1.1915 metrics 4.2.11

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1.1916 espree 9.4.0

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1.1917 jsx-ast-utils 3.3.3

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1.1918 github.com/chai2010/gettext-go 1.0.2

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1.1919 sigs.k8s.io/json 0.0.0-20220713155537-f223a00ba0e2

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1.1920 github.com/rivo/uniseg 0.3.4

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1.1921 uniseg 0.3.4

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1.1922 github.com/titanous/rocacheck 0.0.0-20171023193734-afe73141d399

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1.1923 types-estree 1.0.0

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1.1924 babel-plugin-transform-react-constant-elements 7.18.12

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1.1925 jsoup 1.15.3

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1.1926 jakarta-annotation-api 2.1.1

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1.1931 cglib 3.3.0

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1.1933 reload4j 1.2.22

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1.1944 @babel/plugin-proposal-async-generator-functions 7.19.1

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1.1945 @types/express-serve-static-core 4.17.31

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1.1948 regenerate-unicode-properties 10.1.0

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1.1949 @babel/plugin-transform-react-jsx 7.19.0

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1.1951 unicode-property-aliases-ecmascript 2.1.0

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1.1953 @babel/plugin-transform-named-capturing-groups-regex 7.19.1

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1.1954 browserslist 4.21.4

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1.1955 azure-storage-blob-go 0.15.0

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1.1956 bzip2 1.0.8-4

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1.1957 pcre2 10.36-2+deb11u1

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above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

d) If a facility in the modified
Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves,
then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of

this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a

work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables
containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable

source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user
installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the
major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a

restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an

appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote

it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked

with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate
properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally
distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined

library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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1.1964 byte-buddy 1.12.12

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1.1965 scala-logging_2.13 3.9.4

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1.1966 spring-integration-jmx 5.5.14

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1.1968 lang-tag 1.7

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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Build-Jdk-Spec: 11
Specification-Title: Nimbus LangTag
Specification-Version: 1.7
Specification-Vendor: Connect2id Ltd.
Implementation-Title: Nimbus LangTag
Implementation-Version: 1.7
Implementation-Vendor: Connect2id Ltd.
Build-Date: ${timestamp}

Build-Number: ${buildNumber}
Build-Tag: 1.7
Bnd-LastModified: 1657093138131
Build-Jdk: 11.0.15
Built-By: vd
Bundle-Description: Java implementation of "Tags for Identifying Languag
es" (RFC 5646)
Bundle-DocURL: https://connect2id.com/
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Nimbus LangTag
Bundle-SymbolicName: lang-tag
Bundle-Vendor: Connect2id Ltd.
Bundle-Version: 1.7.0
Export-Package: com.nimbusds.langtag;version="1.7"
Implementation-Vendor-Id: com.nimbusds
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-2.4.1.201501161923

Found
 in path(s):
* /opt/cola/permits/1424446619_1663906962.5013359/0/lang-tag-1-7-jar/META-INF/MANIFEST.MF

1.1969 swagger-annotations 2.2.2

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1.1970 apache-log4j 2.19.0

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1.1972 slf4j 1.7.36

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1.1973 google-go-cmp 0.5.9

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1.1974 aws-sdk-go-v2 1.16.14

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* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 358903 - Filter practically unimportant resource leak warnings
* bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject
into account
* bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
* Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
* Jesper S Moller <jesper@selskabet.org> - Contributions for

```
*       Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*     Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
*                         bug 386692 - Missing "unused" warning on "autowired" fields
*     Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
*                         bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown
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*   Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking
*   Jesper Steen Moeller - Contribution for bug 406973 - [compiler] Parse MethodParameters attribute
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/MethodInfo.java
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*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/LabelFlowContext.java
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*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*         Bug 328281 - visibility leaks not detected when analyzing unused field in private class
*         Bug 300576 - NPE Computing type hierarchy when compliance doesn't match libraries
*         Bug 354536 - compiling package-info.java still depends on the order of compilation units
*         Bug 349326 - [1.7] new warning for missing try-with-resources
*         Bug
 358903 - Filter practically unimportant resource leak warnings
*       Bug 395977 - [compiler][resource] Resource leak warning behavior possibly incorrect for anonymous inner class
*       Bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
```

```
*       Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*       Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
*       Bug 444024 - [1.8][compiler][null] Type mismatch error in annotation generics assignment which happens
"sometimes"
*       Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com -
 Contributions for
*                       Bug 415821 - [1.8][compiler] CLASS_EXTENDS target type annotation missing for anonymous
classes
*     het@google.com - Bug 456986 - Bogus error when annotation processor generates annotation type
*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*         Bug 473178
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ClassScope.java
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*           bug 343713 - [compiler] bogus line number in constructor of inner class in 1.5 compliance
*           bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 361407 - Resource leak warning when resource is assigned to a field outside of constructor
*       bug 368546 - [compiler][resource] Avoid
 remaining false positives found when compiling the Eclipse SDK
*       bug 383690 - [compiler] location of error re uninitialized final field should be aligned
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
```

```
*                    Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code
generator
*     Ulrich Grave <ulrich.grave@gmx.de> - Contributions
 for
*                      bug 386692 - Missing "unused" warning on "autowired" fields
*******************************************************************************/
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Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ConstructorDeclaration.java
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*       Bug 440474 - [null] textual encoding of external null annotations
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Found in path(s):

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/JrtFileSystem.java
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*       bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*       bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*       Bug 392099
 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 412076 - [compiler] @NonNullByDefault doesn't work for varargs parameter when in generic interface
*       Bug 403216 - [1.8][null] TypeReference#captureTypeAnnotations treats type annotations as type argument
```

annotations
*	Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*	Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*	Bug 416175 - [1.8][compiler][null] NPE with a code snippet that used null annotations on wildcards
*	Bug 416174 - [1.8][compiler][null] Bogus name clash error with null annotations
*	Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*	Bug 400874 - [1.8][compiler]
Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*	Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*	Bug 425278 - [1.8][compiler] Suspect error: The target type of this expression is not a well formed parameterized type due to bound(s) mismatch
*	Bug 425798 - [1.8][compiler] Another NPE in ConstraintTypeFormula.reduceSubType
*	Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
*	Bug 426563 - [1.8] AIOOBE when method with error invoked with lambda expression as argument
*	Bug 426792 - [1.8][inference][impl] generify new type inference engine
*	Bug 428294 - [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>
*	Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
*	Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
*	Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*	Bug 438179 - [1.8][null] 'Contradictory null annotations' error on type variable with explicit null-annotation.
*	Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*	Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
*	Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*	Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>
*	Bug 390064 - [compiler][resource] Resource leak warning missing when extending parameterized class
*	Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
*	Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
**********/

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ParameterizedTypeBinding.java
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*	Stephan Herrmann - Contribution for
*	bug 349326 - [1.7] new warning for missing try-with-resources

```
*       bug 370930 - NonNull annotation not considered for enhanced for loops
*       bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 393719 - [compiler] inconsistent warnings
 on iteration variables
*       Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*       Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
*     Jesper S Moller -  Contribution for
*       bug 401853 - Eclipse Java compiler creates invalid bytecode (java.lang.VerifyError)
*                       bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ForeachStatement.java
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* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ArrayQualifiedTypeReference.java
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*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 365519 - editorial cleanup after bug 186342 and bug 365387
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 435570 - [1.8][null] @NonNullByDefault
 illegally tries to affect "throws E"
*   Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this location
*   Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly
**********/

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/Argument.java
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*         Bug 473178
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*       bug 185682 - Increment/decrement operators mark local variables as read
*       bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 392384 - [1.8][compiler][null] Restore nullness
 info from type annotations in class files
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
*       Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
*******************************************************************************/
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Found in path(s):
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*         bug 407191 - [1.8] Binary access support for type annotations
*     Stephan Herrmann - Contribution for
*         Bug 440474 - [null] textual encoding of external null annotations
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*         bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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*   IBM Corporation - Fix for bug 328575
*   het@google.com - Bug 415274 - Annotation processing throws a NPE in getElementsAnnotatedWith()
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*           bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*           bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*       Bug 415790
 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/WhileStatement.java
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*           bug 337868 - [compiler][model] incomplete support for package-info.java when using SearchableEnvironment
*           bug 186342 - [compiler][null] Using annotations for null checking
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*           bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 370639 - [compiler][resource] restore the default for resource leak warnings
*       bug 265744 - Enum switch should warn about missing default
*       bug 374605 - Unreasonable warning for enum-based switch statements
*       bug 381443
 - [compiler][null] Allow parameter widening from @NonNull to unannotated
*       Bug 441208 - [1.8][null]SuppressWarnings("null") does not suppress / marked Unnecessary
*       Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/IrritantSet.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ImplicitNullAnnotationVerifier.java
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*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365519 - editorial cleanup after bug 186342 and bug 365387
*       Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/MemberValuePair.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/model/IElementInfo.java
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* Contributors:
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* Stephan Herrmann - Contribution for
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
* Bug 441797 - [1.8] synchronize type annotations on capture and its wildcard
* Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker
 hint from applicability analysis
* Bug 456924 - StackOverflowError during compilation

```
*       Bug 462790 - [null] NPE in Expression.computeConversion()
*     Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
*       Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/CaptureBinding.java
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*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365519 - editorial cleanup after bug 186342 and bug 365387
*       bug 388281 - [compiler][null] inheritance of null annotations as an option
*       bug 388795 - [compiler] detection of name clash depends on order of super interfaces
*       bug 388739 - [1.8][compiler] consider default methods when detecting whether
 a class needs to be declared abstract
*       bug 390883 - [1.8][compiler] Unable to override default method
*       bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*       bug 401246 - [1.8][compiler] abstract class method should now trump conflicting default methods
*       bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
*       bug 403867 - [1.8][compiler] Suspect error about duplicate default methods
*       bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
*       bug 395681 - [compiler] Improve simulation of javac6 behavior from bug 317719 after fixing bug 388795
*       bug 409473 - [compiler] JDT cannot compile against JRE 1.8
*       Bug 420080 - [1.8] Overridden Default method is reported as duplicated
*       Bug 404690 - [1.8][compiler] revisit bridge generation after VM bug is fixed
 *       Bug 410325 - [1.7][compiler] Generified method override different between javac and eclipse compiler
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
*       Bug 440773 - [1.8][null]DefaultLocation.RETURN_TYPE erroneously affects method parameters in
@NonNullByDefault
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 446442 - [1.8] merge null annotations from super methods
*******************************************************************************/
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Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/MethodVerifier15.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/model/AnnotationMemberValue.java
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*      Stephen Herrmann <stephan@cs.tu-berlin.de> -  Contributions for
*       bug 317046 - Exception during debugging when hover mouse over a field
*       bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*       bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*       bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class
 files
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*       Bug 424712 - [1.8][compiler] NPE in TypeBinding.isProvablyDistinctTypeArgument
```

```
*       Bug 426792 - [1.8][inference][impl] generify new type inference engine
*       Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
*       Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
*       Bug 427626 - [1.8] StackOverflow while typing new ArrayList<String>().toArray( and asking for code completion
 *       Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*       Bug 435962 - [RC2] StackOverFlowError when building
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*       Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*       Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*       Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
*     Jesper S Moller <jesper@selskabet.org> -  Contributions for
*       bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*       bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/TypeBinding.java
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*           bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*           bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 265744 - Enum switch should warn about missing default
*       bug 374605 - Unreasonable warning for enum-based switch statements
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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```

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/SwitchStatement.java
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*          bug 349326 - [1.7] new warning for missing try-with-resources
*          bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
*       bug 358903 - Filter practically unimportant resource leak warnings
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 400874 - [1.8][compiler] Inference infrastructure
 should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*       Bug 426676 - [1.8][compiler] Wrong generic method type inferred from lambda expression
*       Bug 427411 - [1.8][generics] JDT reports type mismatch when using method that returns generic type
*       Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*       Bug 435962 - [RC2] StackOverFlowError when building
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*       Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*       Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
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```

Found in path(s):
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*     Jesper S Moller - Contributions for
*       Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
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*     Stephan Herrmann - Contribution for
*        Bug 440687 - [compiler][batch][null] improve command line option for external annotations
*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*          Bug 473178
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathDirectory.java
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*    olivier_thomann@ca.ibm.com - add hashCode() and equals(..) methods
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-

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*    wharley@bea.com - derived base class from BatchMessagerImpl
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/CompactConstructorDeclaration.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/TextBlock.java
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* Stephan Herrmann - Contribution for
* bug 383368 - [compiler][null] syntactic null analysis for field references
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/messages.properties
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/messages.properties

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Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/ModuleLocationHandler.java

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Found in path(s):
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* Contributors:
*    Frits Jalvingh  - fix for bug 533830.
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/ExceptionDiagnostic.java
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*     Stephan Herrmann - Contribution for
*       Bug 432977 - [1.8][null] Incorrect 'type is not visible' compiler error
*       Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
*******************************************************************************/
/* Taking the binding of QTR as an example, there could be different annotatable components, but we come in a
with a single binding, e.g:

 @T Z;                          type => Z  annotations => [[@T]]
     @T Y.@T Z                        type => Z  annotations => [[@T][@T]]
     @T X.@T Y.@T Z                       type => Z  annotations => [[@T][@T][@T]]
     java.lang.@T X.@T Y.@T Z                 type => Z  annotations => [[][][@T][@T][@T]]
     in all these cases the incoming type binding is for Z, but annotations are for different levels. We need to align their
layout for proper attribution.
    */
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/AnnotatableTypeSystem.java
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* Contributors:
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*     Erling Ellingsen -  patch for bug 125570
*     Stephan Herrmann - Contribution for
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
*     Sebastian Zarnekow - Contribution for
*       Bug 544921 - [performance] Poor performance with large source files
*******************************************************************************/
```

Found
 in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/CompilationUnitScope.java

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*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*       bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*       bug 292478 - Report potentially null across variable assignment
*       bug 335093 - [compiler][null] minimal hook for future null annotation support
*       bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 358903 - Filter practically unimportant resource leak warnings
*       bug 370639 - [compiler][resource] restore the default for resource leak warnings
*       bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*       bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*       bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*       bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*       Bug 430150 - [1.8][null] stricter checking against type variables
*       Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*     Jesper S Moller - Contributions for
*       Bug 378674 - "The method can be declared as static" is wrong
*       Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*       Bug 529556 - [18.3] Add content assist support for 'var' as a type
*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*       Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
*       Bug 426616 - [1.8][compiler] Type Annotations, multiple problems
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/LocalDeclaration.java
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*     Stephan Herrmann - Contributions for
*        bug 349326 - [1.7] new warning for missing try-with-resources
*        bug 186342 - [compiler][null] Using annotations for null checking
*        bug 365519 - editorial cleanup after bug 186342 and bug 365387
*        bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*        bug 382353 - [1.8][compiler] Implementation property modifiers should
 be accepted on default methods.
*        bug 383368 - [compiler][null] syntactic null analysis for field references
*        Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*        Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*        Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*        Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this
location
*        Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*        Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*     Jesper S Moller <jesper@selskabet.org> - Contributions for
*        bug 378674 - "The method can be declared as static" is wrong
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/MethodDeclaration.java
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```
*     Stephan Herrmann - Contribution for
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ExpressionContext.java
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*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 367203 - [compiler][null] detect assigning null to nonnull argument
*       bug 365519 - editorial cleanup after bug 186342 and bug 365387
*       bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*       bug 365531 - [compiler][null] investigate alternative strategy for internally
 encoding nullness defaults
*       bug 388281 - [compiler][null] inheritance of null annotations as an option
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
*       Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this
location
*       Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*       Bug 443347 - [1.8][null]
 @NonNullByDefault should not affect constructor arguments of an anonymous instantiation
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*       Bug 456584 - [1.8][null] Bogus warning for return type variable's @NonNull annotation being 'redundant'
*       Bug 471611 - Error on hover on call to generic method with null annotation
*     Jesper Steen Moller - Contributions for
*       Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/MethodBinding.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/MethodInfoWithAnnotations.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IBinaryAnnotation.java
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*     Stephan Herrmann  - Contribution for bug 295551
*     Jesper S Moller   - Contributions for
*         Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*     Frits Jalvingh    - contributions for bug 533830.
*     Red Hat Inc.      - add module-info Javadoc support
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-

jar/org/eclipse/jdt/internal/compiler/ast/CompilationUnitDeclaration.java
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*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*******************************************************************************/
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/BreakStatement.java
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*     Jesper S Moller - Contributions for
*       bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*                    Bug 384687 - [1.8] Wildcard type arguments should be rejected for lambda and reference
expressions
*       Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
*    Stephan Herrmann - Contribution for
*       bug 402028 - [1.8][compiler] null analysis for reference
 expressions
*       bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super via I.super.m() syntax
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
```

```
*       Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*       Bug 424637 - [1.8][compiler][null] AIOOB in ReferenceExpression.resolveType with a method reference to
Files::walk
*       Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*       Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
*       Bug 427196 - [1.8][compiler] Compiler error for method reference to overloaded method
*       Bug 427438
 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*       Bug 428264 - [1.8] method reference of generic class causes problems (wrong inference result or NPE)
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 426537 - [1.8][inference] Eclipse compiler thinks I<? super J> is compatible with I<J<?>> - raw type J
involved
*       Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*       Bug 435689 - [1.8][inference] Type inference not occurring with lambda expression and method reference
*       Bug 438383 - [1.8][null] Bogus warning: Null type safety at method return type
*       Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
*       Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
*       Bug 438945 - [1.8] NullPointerException
 InferenceContext18.checkExpression in java 8 with generics, primitives, and overloading
*       Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*       Bug 448709 - [1.8][null] ensure we don't infer types that violate null constraints on a type parameter's bound
*       Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
*       Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*       Bug 470542 - NullPointerException in ReferenceExpression.isPotentiallyCompatibleWith (962)
*        Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contribution for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*******************************************************************************/
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ReferenceExpression.java
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*     Stephan Herrmann - Contribution for
*       bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*******************************************************************************/
```

Found
 in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/BaseTypeBinding.java
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jar/org/eclipse/jdt/internal/compiler/ast/RecordComponent.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/ast/JavadocModuleReference.java
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*     IBM Corporation - bug fixes
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/util/Archive.java
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* Stephan Herrmann - Contributions for
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 331649 - [compiler][null] consider null annotations for fields
* bug 383368 - [compiler][null] syntactic null analysis for field references
* bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
* bug 403086 - [compiler][null] include the effect of 'assert'
 in syntactic null analysis for fields
**********/

Found in path(s):
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*        bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*        bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*        Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*        Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
*******************************************************************************/
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 in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/ExceptionHandlingFlowContext.java
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*     Stephan Herrmann - Contributions for
*        bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*        bug 401030 - [1.8][null] Null analysis support for lambda methods.
*        Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*        Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*******************************************************************************/
```

Found
 in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/LocalTypeBinding.java
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* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contribution for bug 185682 - Increment/decrement operators mark local variables as read
**********/

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocFieldReference.java
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*     IBM Corporation - initial API and implementation
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*         Bug 407191 - [1.8] Binary access support for type annotations
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Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IBinaryField.java
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*       bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365519 - editorial cleanup after bug 186342 and bug 365387
*       bug 358903 - Filter practically unimportant resource leak warnings
*       bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
 *       bug 388281 - [compiler][null] inheritance of null annotations as an option
*       bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*       bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*       bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
*       bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
*       bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*       Bug
 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*       Bug 426792 - [1.8][inference][impl] generify new type inference engine
*       Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*       Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
*       Bug 418743 - [1.8][null] contradictory annotations on invocation of generic method not reported
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 431581 - Eclipse compiles what it should not
*       Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
```

```
*       Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*       Bug 446442 - [1.8] merge null annotations from
 super methods
*       Bug 456532 - [1.8][null] ReferenceBinding.appendNullAnnotation() includes phantom annotations in error
messages
*       Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
*      Jesper S Moller - Contributions for
*       bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*       bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*       bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*     Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
*                       bug 386692 - Missing "unused" warning on "autowired" fields
*     Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
*                       bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown
when using MethodSource
*     Sebastian Zarnekow - Contributions
 for
*       bug 544921 - [performance] Poor performance with large source files
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ReferenceBinding.java
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* Stephan Herrmann - Contribution for
* Bug 429813 - [1.8][dom ast] IMethodBinding#getJavaElement() should return IMethod for lambda
**********/

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/Initializer.java
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* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
* bug 370639 - [compiler][resource] restore the default for resource leak warnings
* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
* Bug 417758 - [1.8][null] Null safety compromise during array creation.
* Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
**********/

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ArrayInitializer.java
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* Stephan Herrmann - Contribution for
* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
* Bug 416174 - [1.8][compiler][null] Bogus name clash error with null annotations
* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
* Bug 425783 - An
internal error occurred during: "Requesting Java AST from selection". java.lang.StackOverflowError
* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
**********/

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/RawTypeBinding.java
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*           bug 185682 - Increment/decrement operators mark local variables as read
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365519 - editorial cleanup after bug 186342 and bug 365387
*       bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*       bug 345305 - [compiler][null]
 Compiler misidentifies a case of "variable can only be null"
*       Bug 414380 - [compiler][internal] QualifiedNameReference#indexOfFirstFieldBinding does not point to the first
field
*       Bug 458396 - NPE in CodeStream.invoke()
*     Jesper S Moller - Contributions for
*       bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*     Jesper S Moller <jesper@selskabet.org> - Contributions for
*       bug 378674 - "The method can be declared as static" is wrong
*******************************************************************************/
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* Stephan Herrmann - Contributions for
* bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 358903 - Filter practically unimportant resource
leak warnings
* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
* bug 370639 - [compiler][resource] restore the default for resource leak warnings
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 424727 - [compiler][null] NullPointerException in nullAnnotationUnsupportedLocation(ProblemReporter.java:5708)
* Bug 424710
- [1.8][compiler] CCE in SingleNameReference.localVariableBinding
* Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
* Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
* Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
* Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
* Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
* Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
* Bug 424930 - [1.8][compiler] Regression: "Cannot infer type arguments" error from compiler.
* Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
* Bug 427438 - [1.8][compiler] NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
* Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
* Bug 429203 - [1.8][compiler] NPE in AllocationExpression.binding
* Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
* Bug 434297 - [1.8] NPE in LamdaExpression.analyseCode with lamda expression nested in a conditional expression
* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
* Bug 448709 - [1.8][null] ensure we don't infer types that violate null constraints on a type parameter's bound
* Jesper S Moller <jesper@selskabet.org> - Contributions for
* bug 378674 - "The method can be declared as static" is wrong
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive
code generation support for type annotations (from Olivier's work)
* Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method
* Till Brychcy - Contributions for

```
*         bug 413460 - NonNullByDefault is not inherited to Constructors when accessed via Class File
*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*         Bug 473178
*******************************************************************************/
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*       bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 361407 - Resource leak warning when resource is assigned to a field outside of constructor
*       bug 370639 - [compiler][resource] restore the default for resource leak warnings
*       bug 388996 - [compiler][resource] Incorrect
```

'potential resource leak'
*	bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
*	Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*	Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*	Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
*	Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*	Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*	Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
*	Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
*	Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
*	Bug 427438 - [1.8][compiler]
NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*	Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*	Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*	Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*		Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method
**********/

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ExplicitConstructorCall.java
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*		bug 358827 - [1.7] exception analysis for t-w-r spoils null analysis
*	bug 186342 - [compiler][null] Using annotations for null checking
*	bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*	bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*	bug 345305 - [compiler][null]
Compiler misidentifies a case of "variable can only be null"
*	bug 383368 - [compiler][null] syntactic null analysis for field references
*	bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*	bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields

```
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*       Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*       Bug 455723 - Nonnull argument not correctly inferred in loop
*       Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
*       Bug 446691 - [1.8][null][compiler] NullPointerException in SingleNameReference.analyseCode
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/FlowContext.java
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*           bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points
*       bug 358903 - Filter practically unimportant resource leak warnings
*       bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*       bug 370639 - [compiler][resource]
 restore the default for resource leak warnings
*       bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*       bug 379784 - [compiler] "Method can be static" is not getting reported
*       bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*       bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 371614 - [compiler][resource] Wrong "resource leak" problem on return/throw inside while loop
*       Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
*       Bug 444964 - [1.7+][resource] False resource leak warning (try-with-resources for ByteArrayOutputStream -
return inside for loop)
*       Bug 396575 - [compiler][resources] Incorrect Errors/Warnings check for potential resource leak when surrounding
 with try-catch
*     Jesper S Moller <jesper@selskabet.org> - Contributions for
*       bug 378674 - "The method can be declared as static" is wrong
*     Keigo Imai - Contribution for  bug 388903 - Cannot extend inner class as an anonymous class when it extends
the outer class
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*    IBM Corporation - fix for 342598, 382590
*    Jean-Marie Henaff <jmhenaff@google.com> (Google) - Bug 481555
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/model/TypesImpl.java
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*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*       bug 185682 - Increment/decrement operators mark local variables as read
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       Bug 412203 - [compiler] Internal compiler error: java.lang.IllegalArgumentException: info cannot be null
*       Bug 400874 - [1.8][compiler]
 Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 458396 - NPE in CodeStream.invoke()
*     Jesper S Moller - Contributions for
*       Bug 378674 - "The method can be declared as static" is wrong
*     Robert Roth <robert.roth.off@gmail.com> - Contributions for
*       Bug 361039 - NPE in FieldReference.optimizedBooleanConstant
*******************************************************************************/
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Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/FieldReference.java
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*     Stephan Herrmann - Contribution for
*       Bug 440687 - [compiler][batch][null] improve command line option for external annotations
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/FileSystem.java

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*       Bug 360328 - [compiler][null] detect null problems in nested code (local class inside a loop)
*       Bug 388630 - @NonNull diagnostics at line 0
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*       Bug 424727 - [compiler][null] NullPointerException
 in nullAnnotationUnsupportedLocation(ProblemReporter.java:5708)
*       Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
*     Keigo Imai - Contribution for  bug 388903 - Cannot extend inner class as an anonymous class when it extends
the outer class
 *    Pierre-Yves B. <pyvesdev@gmail.com> - Contributions for
*                       Bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown
when using MethodSource
*                       Bug 546084 - Using Junit 5s MethodSource leads to ClassCastException
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```
*       Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*       Bug 426676 - [1.8][compiler] Wrong generic method type inferred from lambda expression
*       Bug 426542 - [1.8] Most specific method not picked when one method has intersection type as type parameter
*       Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*     Andy
 Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*     Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
*                       Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
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Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/IntersectionTypeBinding18.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/InferenceContext18.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
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jar/org/eclipse/jdt/internal/compiler/codegen/CharArrayCache.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/util/HashSetOfInt.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/core/compiler/InvalidInputException.java
*
 /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/codegen/BranchLabel.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/util/ObjectVector.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/codegen/VerificationTypeInfo.java
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*     IBM Corporation - initial API and implementation
*     Jesper Steen Moller - Contributions for:
*         Bug 412149: [1.8][compiler] Emit repeated annotations into the designated container
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/SingleMemberAnnotation.java
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*     Stephan Herrmann - Contributions for
*       bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
*       Bug 417758 - [1.8][null] Null safety compromise during array creation.
```

```
*       Bug
 427163 - [1.8][null] bogus error "Contradictory null specification" on varags
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                     Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                     Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array
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Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ArrayAllocationExpression.java
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*       bug 185682 - Increment/decrement operators mark local variables as read
*       bug 331649 - [compiler][null] consider null annotations for fields
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 447088 - [null] @Nullable on fully qualified field type is ignored
*       Bug 435805 - [1.8][compiler][null]
 Java 8 compiler does not recognize declaration style null annotations
*       Bug 458396 - NPE in CodeStream.invoke()
*       Bug 446217 - [null] @NonNullByDefault in package-info.java causes bogus "null type safety" warning
*     Till Brychcy - Contribution for
*             bug 467094 - [1.8][null] TYPE_USE NullAnnotations of array contents are applied to field.
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/FieldBinding.java
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*           Bug 407191 - [1.8] Binary access support for type annotations
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/MethodInfoWithTypeAnnotations.java
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*         Bug 473178
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```
*     Nikolay Metchev (nikolaymetchev@gmail.com) - Contributions for
*       bug 411098 - [compiler][resource] Invalid Resource Leak Warning using ternary operator inside try-with-resource
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/FakedTrackingVariable.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/SimpleSetOfCharArray.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/CachedIndexEntry.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/util/SortedCharArrays.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/lookup/SortedSimpleNameVector.java
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*       bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*       bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
*       Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
*     Stephan Herrmann - Contribution for
*       bug 401030 - [1.8][null] Null analysis support for lambda methods.
*       Bug 392099
 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*       Bug 425142 - [1.8][compiler] NPE in ConstraintTypeFormula.reduceSubType
*       Bug 425153 - [1.8] Having wildcard allows incompatible types in a lambda expression
*       Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*       Bug 425798 - [1.8][compiler] Another NPE in ConstraintTypeFormula.reduceSubType
*       Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
*       Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
*       Bug 426563 - [1.8] AIOOBE when method with error
 invoked with lambda expression as argument
*       Bug 420525 - [1.8] [compiler] Incorrect error "The type Integer does not define sum(Object, Object) that is
applicable here"
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*       Bug 428294 - [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>
*       Bug 428786 - [1.8][compiler] Inference needs to compute the "ground target type" when reducing a lambda
compatibility constraint
*       Bug 428980 - [1.8][null] simple expression as lambda body doesn't leverage null annotation on argument
*       Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException
instead of IOException)
```

```
*       Bug 432110 - [1.8][compiler] nested lambda type incorrectly inferred vs javac
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type
 variables
*       Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*       Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*       Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*       Bug 455723 - Nonnull argument not correctly inferred in loop
*       Bug 463728 - [1.8][compiler][inference] Ternary operator in lambda derives wrong type
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                     Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/EclipseFileObject.java
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*   IBM Corporation - fix for 342598
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*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 427438 - [1.8][compiler] NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/AbstractVariableDeclaration.java
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*   IBM Corporation - fix for bug 342757
*   Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking

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*     Stephan Herrmann - Contributions for
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365519 - editorial cleanup after bug 186342 and bug 365387
*       bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/PackageBinding.java

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*     Jesper S Moller - Contributions for
*       Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*       Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile
*       Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
*       Bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com
 - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                       Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code
generator
*                       Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly
*                       Bug 415541 - [1.8][compiler] Type annotations in the body of static initializer get dropped
*                       Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code
generator
*                       Bug 415470 - [1.8][compiler] Type annotations on class declaration go vanishing
*                       Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*                       Bug 434556 - Broken class file generated for incorrect annotation usage
*                       Bug 442416
 - $deserializeLambda$ missing cases for nested lambdas
*     Stephan Herrmann - Contribution for
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*     Olivier Tardieu tardieu@us.ibm.com - Contributions for
*       Bug 442416 - $deserializeLambda$ missing cases for nested lambdas
*******************************************************************************/
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/TypeAnnotationWalker.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ICompilerRequestor.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/AccessRestriction.java
*
 /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/diagnose/RangeUtil.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/OperatorIds.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/AccessRule.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/FalseLiteral.java

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/ClassFileStruct.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IDependent.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemBinding.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfIntValues.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/SimpleLookupTable.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/ISourceImport.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/AbortMethod.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/ShouldNotImplement.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredImport.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfType.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/SubRoutineStatement.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/DoubleCache.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/InnerEmulationDependency.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocReturnStatement.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/AbortCompilationUnit.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/NLSTag.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/PrefixExpression.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/IDebugRequestor.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/TrueLiteral.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/SimpleSet.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/CharLiteral.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/antadapter/AntAdapterMessages.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-

jar/org/eclipse/jdt/internal/compiler/problem/AbortType.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfObjectToInt.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/AbortCompilation.java
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/opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/IProblemFactory.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/SyntheticFieldBinding.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/FloatCache.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ExtendedStringLiteral.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/Label.java
*
/opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/AnnotationHolder.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/InnerClassInfo.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/PostfixExpression.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocArrayQualifiedTypeReference.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfLong.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemFieldBinding.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocSingleNameReference.java
*
/opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/IntegerCache.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/ObjectCache.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/SyntheticArgumentBinding.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ParameterizedFieldBinding.java
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*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
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*       bug 331649 - [compiler][null] consider null annotations for fields
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 458396 - NPE in CodeStream.invoke()
*******************************************************************************/
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*       Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*       Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                    Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/LongLiteral.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/FloatLiteral.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/IntLiteralMinValue.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/InferenceContext.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/LongLiteralMinValue.java
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* bug 332637 - Dead Code detection removing code that isn't dead
* bug 358827 - [1.7] exception analysis for t-w-r spoils null analysis
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points
* bug 358903 - Filter practically unimportant resource
leak warnings
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
* bug 401088 - [compiler][null] Wrong warning "Redundant null check" inside nested try statement
* bug 401092 - [compiler][null] Wrong warning "Redundant null check" in outer catch of nested try
* bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
* bug 384380 - False positive on a ?? Potential null pointer access ?? after a continue
* Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
* Bug 371614 - [compiler][resource] Wrong "resource leak" problem on return/throw inside while loop
* Bug 444964 - [1.7+][resource] False resource leak warning (try-with-resources for ByteArrayOutputStream - return inside for loop)
* Jesper Steen Moller -
Contributions for
* bug 404146 - [1.7][compiler] nested try-catch-finally-blocks leads to unrunnable Java byte code
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
*
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*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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* Contributors:
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*     Stephan Herrmann - Contribution for
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/CombinedBinaryExpression.java
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* Contributors:
* IBM Corporation - initial API and implementation
* Nick Teryaev - fix for bug (https://bugs.eclipse.org/bugs/show_bug.cgi?id=40752)
* Stephan Herrmann - Contributions for
* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
* bug
383368 - [compiler][null] syntactic null analysis for field references
* bug 401017 - [compiler][null] casted reference to @Nullable field lacks a warning
* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
* Bug 430150 - [1.8][null] stricter checking against type variables
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style
null annotations
* Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 415541 - [1.8][compiler] Type annotations in the body of static initializer get dropped
***/

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/CastExpression.java
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* Stephan Herrmann - Contributions for
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 367203 - [compiler][null] detect assigning null to nonnull argument
* bug 365519 - editorial cleanup after bug 186342 and bug 365387
* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
* bug 382353 - [1.8][compiler] Implementation property modifiers
 should be accepted on default methods.
* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* bug 388281 - [compiler][null] inheritance of null annotations as an option
* bug 401030 - [1.8][null] Null analysis support for lambda methods.
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 403216 - [1.8][null] TypeReference#captureTypeAnnotations treats type annotations as type argument
annotations
* Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize
 declaration style null annotations
* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
**********/

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/ast/AbstractMethodDeclaration.java
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*     Stephan Herrmann - Contribution for
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*******************************************************************************/
```

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocImplicitTypeReference.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ElementValuePair.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/ExceptionInferenceFlowContext.java

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*        bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*        Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*        Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*     Jesper Steen Moller - Contributions for
*        Bug 412150 [1.8] [compiler]
 Enable reflected parameter names during annotation processing
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/Binding.java
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*        bug 186342 - [compiler][null] Using annotations for null checking
*        bug 365519 - editorial cleanup after bug 186342 and bug 365387
*        bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*        bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*        bug 385626 - @NonNull fails across
 loop boundaries
*        bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
```

```
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*       Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*       Bug 455723 - Nonnull argument not correctly inferred in loop
*     Jesper S Moller - Contributions for
*       bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops
*******************************************************************************/
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Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/FinallyFlowContext.java
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*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code
generator
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/IntersectionCastTypeReference.java
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*    wharley@bea.com - initial API and implementation
*    IBM Corporation - fix for 342470
*    IBM Corporation - fix for 342598
*    IBM Corporation - Java 8 support
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/model/TypeParameterElementImpl.java
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*       bug 332637 - Dead Code detection removing code that isn't dead
*       bug 391517 - java.lang.VerifyError on code that runs correctly in Eclipse 3.7 and eclipse 3.6
*       bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*******************************************************************************/
```

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/ConditionalFlowInfo.java
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*          bug 337868 - [compiler][model] incomplete support for package-info.java when using SearchableEnvironment
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*       bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       bug
 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*       bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 416183 - [1.8][compiler][null] Overload resolution fails with null annotations
*       Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 416190 - [1.8][null]
 detect incompatible overrides due to null type annotations
*       Bug 424624 - [1.8][null] if a static-object with annotation @NonNull is used, a warning is shown
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*       Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
*       Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 453475 - [1.8][null] Contradictory null annotations (4.5 M3 edition)
*       Bug 457079 - Regression: type inference
*       Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*       Bug 455180 - IllegalStateException in AnnotatableTypeSystem.getRawType
*       Bug 470467 - [null] Nullness of special Enum methods not detected from .class file
 *******************************************************************************/
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*       Bug 458396 - NPE in CodeStream.invoke()
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*       bug 292478 - Report potentially null across variable assignment
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null analysis for field
 references
*       bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*       bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 426792 - [1.8][inference][impl] generify new type inference engine
*       Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*       Bug 426996 - [1.8][inference]
 try to avoid method Expression.unresolve()?
*       Bug 428274 - [1.8] [compiler] Cannot cast from Number to double
*       Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*       Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*         Bug 473178
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/AbstractCommentParser.java
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*    IBM Corporation - fix for 342598
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*                    (originally in org.eclipse.jdt.apt.core)
*    IBM Corporation - Bug 513790
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*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*          bug 185682 - Increment/decrement operators mark local variables as read
*          bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*       bug 331649 - [compiler][null] consider
 null annotations for fields
*       Bug 466308 - [hovering] Javadoc header for parameter is wrong with annotation-based null analysis
*     Jesper S Møller <jesper@selskabet.org> -  Contributions for
*       Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*
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jar/org/eclipse/jdt/internal/compiler/lookup/PolymorphicMethodBinding.java
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* Contributors:
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*     Stephan Herrmann - Contributions for
*           bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*           bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*       bug 370639 - [compiler][resource] restore the
 default for resource leak warnings
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*       bug 395977 - [compiler][resource] Resource leak warning behavior possibly incorrect for anonymous inner class
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*       Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 416267 - NPE in QualifiedAllocationExpression.resolveType
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 424415 - [1.8][compiler] Eventual
 resolution of ReferenceExpression is not seen to be happening.
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*     Jesper S Moller <jesper@selskabet.org> - Contributions for
*       bug 378674 - "The method can be declared as static" is wrong
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                   Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic
bridge method
*     Till Brychcy - Contributions for
*           bug 413460 - NonNullByDefault is not inherited to Constructors when accessed via Class File
*******************************************************************************/
```

Found in path(s):

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/QualifiedAllocationExpression.java
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*     Benjamin Muskalla - Contribution for bug 239066
*     Stephan Herrmann  - Contributions for
*          bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
*          bug 295551 - Add option to automatically promote all warnings to errors
*          bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug
 370639 - [compiler][resource] restore the default for resource leak warnings
*       bug 366063 - Compiler should not add synthetic @NonNull annotations
*       bug 374605 - Unreasonable warning for enum-based switch statements
*       bug 388281 - [compiler][null] inheritance of null annotations as an option
*       bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
*     Jesper Steen Moller - Contributions for
*       bug 404146 - [1.7][compiler] nested try-catch-finally-blocks leads to unrunnable Java byte code
*       bug 407297 - [1.8][compiler] Control generation of parameter names by option
*******************************************************************************/
```

Found
 in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/CompilerOptions.java
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*         bug 349326 - [1.7] new warning for missing try-with-resources
*         bug 186342 - [compiler][null] Using annotations for null checking
*         bug 364890 - BinaryTypeBinding should use char constants from Util
*         bug 365387 - [compiler][null] bug 186342: Issues to follow up post review and verification.
*         bug 358903 - Filter practically unimportant resource leak warnings
*         bug
 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*         bug 388800 - [1.8][compiler] detect default methods in class files
*         bug 388281 - [compiler][null] inheritance of null annotations as an option
*         bug 331649 - [compiler][null] consider null annotations for fields
*         bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*         Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*         Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*         Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*         Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*         Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
*         Bug 392245 - [1.8][compiler][null] Define whether
 / how @NonNullByDefault applies to TYPE_USE locations
*         Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*         Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
*         Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*         Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
*         Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
*         Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*         Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*         Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*         Bug 453475 - [1.8][null] Contradictory null annotations (4.5 M3 edition)
*         Bug 454182 - Internal compiler error when using
 1.8 compliance for simple project
*         Bug 470467 - [null] Nullness of special Enum methods not detected from .class file
*         Bug 447661 - [1.8][null] Incorrect 'expression needs unchecked conversion' warning
*    Jesper Steen Moller - Contributions for
*         Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing
*         Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*    Sebastian Zarnekow - Contributions for
*         bug 544921 - [performance] Poor performance with large source files
*    Alexander Lehmann - Contributions for
*         bug 566258 - Intermittent NPE in APT RoundDispatcher
*******************************************************************************/
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Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/BinaryTypeBinding.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/InferenceVariable.java
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* Contributors:
*     IBM Corporation - initial API and implementation
*     Luiz-Otavio Zorzella <zorzella at gmail dot com> - Improve CamelCase algorithm
*     Gábor Kövesdán - Contribution for Bug 350000 - [content assist] Include non-prefix matches in auto-complete suggestions
*     Stefan Xenos <sxenos@gmail.com> (Google) - Bug 501283 - Lots of hash collisions during indexing
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Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/core/compiler/CharOperation.java
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* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
**********/

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/ExceptionLabel.java
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* Contributors:
* Stephan Herrmann - initial API and implementation
* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
* Bug 473178
**********/

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jar/org/eclipse/jdt/internal/compiler/ast/JavadocArraySingleTypeReference.java
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* Contributors:
*    wharley@bea.com - initial API and implementation
*    IBM Corporation - fix for 342598
*    IBM Corporation - Java 8 support
*    het@google.com - Bug 427943 - The method
org.eclipse.jdt.internal.compiler.apt.model.Factory.getPrimitiveType does not throw IllegalArgumentException
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/model/Factory.java
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* Contributors:
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*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*          bug 292478 - Report potentially null across variable assignment
*          bug 332637 - Dead Code detection removing code that isn't dead
*       bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*       Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
*       Bug 421035 - [resource]
 False alarm of resource leak warning when casting a closeable in its assignment
*******************************************************************************/
```

Found in path(s):

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/FlowInfo.java
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*    Igor Fedorenko - extracted from ElementsImpl
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*     Stephan Herrmann - Contributions for
*        bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*        bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*        bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
*        Bug 422796 - [compiler][null] boxed boolean reported as potentially null after
 null test in lazy disjunction
*******************************************************************************/
```

Found in path(s):
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*     Stephen Herrmann <stephan@cs.tu-berlin.de> -  Contributions for
*          bug 133125 - [compiler][null] need to report the null status of expressions and analyze them simultaneously
*          bug 292478 - Report potentially null across variable assignment
*       bug 324178 - [null] ConditionalExpression.nullStatus(..) doesn't take into account the analysis of condition itself
*       bug 354554 - [null] conditional with redundant condition
 yields weak error message
*          bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 426078 - [1.8] VerifyError when conditional expression passed as an argument
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
 *       Bug 418537 - [1.8][null] Fix null type annotation analysis for poly conditional expressions
*       Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*       Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
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Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ConditionalExpression.java
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*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*     Jesper S Moller - Contributions for
*       bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
 ********************************************************************************/
```

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/CompoundAssignment.java
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*       bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*       Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*     Stephan Herrmann - Contribution for
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 423504 - [1.8] Implement "18.5.3
 Functional Interface Parameterization Inference"
*       Bug 425142 - [1.8][compiler] NPE in ConstraintTypeFormula.reduceSubType
*       Bug 425153 - [1.8] Having wildcard allows incompatible types in a lambda expression
*       Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
*       Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*       Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*       Bug 446442 - [1.8] merge null annotations from super methods
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                     Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
********************************************************************************/
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/FunctionalExpression.java
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*                     Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
*                     Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/MultiCatchExceptionLabel.java
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*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*       bug 328281 - visibility leaks not detected when analyzing unused field in private class
*       bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
*******************************************************************************/
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ExtraCompilerModifiers.java
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*                    Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
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*     Till Brychcy - Contributions for
*                         Bug 467482 - TYPE_USE null annotations: Incorrect "Redundant null check"-warning
*******************************************************************************/
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Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/NullAnnotationMatching.java
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* Contributors:
*    tyeung@bea.com - initial API and implementation
*        Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*          Bug 407191 - [1.8] Binary access support for type annotations
*******************************************************************************/
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Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/FieldInfoWithAnnotation.java
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*
* Contributors:
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*     Stephan Herrmann - Contribution for
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*     Jesper S Moller - Contributions for
*       Bug 378674 - "The method can be declared as static" is wrong
*******************************************************************************/
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Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ThisReference.java
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*         Bug 407191 - [1.8] Binary access support for type annotations
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IBinaryTypeAnnotation.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/FieldInfoWithTypeAnnotation.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/UsesStatement.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/OpensStatement.java
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*    IBM Corporation - Java 8 support
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/model/NoTypeImpl.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/CompilationResult.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredElement.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredUnit.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredField.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/AnnotationMethodDeclaration.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathLocation.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/ICompilationUnit.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/NameEnvironmentAnswer.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ClassLiteralAccess.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/INameEnvironment.java
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* bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax
* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
* Jesper S Moller <jesper@selskabet.org> - Contributions for
* bug 378674 - "The method can be declared as static" is wrong
**********/

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 in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/ast/QualifiedThisReference.java
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* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
* Stephan Herrmann - Contribution for
* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 416182 - [1.8][compiler][null]
 Contradictory null annotations not rejected
**********/

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/lookup/ProblemReasons.java
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* bug 186342 - [compiler][null] Using annotations for null checking
* bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
* bug 331649 - [compiler][null] consider null annotations for fields
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 415043 - [1.8][null] Follow-up re null type annotations
after bug 392099
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
* Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 424728 - [1.8][null] Unexpected error: The nullness annotation 'XXXX' is not applicable at this location
* Bug 392245 - [1.8][compiler][null] Define whether / how @NonNullByDefault applies to TYPE_USE locations
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
* Bug 469584 - ClassCastException in Annotation.detectStandardAnnotation (320)
* Andy Clement (GoPivotal,
Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
* Bug 409517 - [1.8][compiler] Type annotation problems on more elaborate array references

```
*                    Bug 415397 - [1.8][compiler] Type Annotations on wildcard type argument dropped
*                    Bug 414384 - [1.8] type annotation on abbreviated inner class is not marked as inner type
*     Jesper S Moller <jesper@selskabet.org> -  Contributions for
*                    Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*                    Bug 412151 - [1.8][compiler] Check repeating annotation's collection type
*                    Bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
*                    Bug 419209 - [1.8] Repeating container annotations
 should be rejected in the presence of annotation it contains
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/Annotation.java
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*     Carmi Grushko - Bug 465048 - Binding is null for class literals in synchronized blocks
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/SynchronizedStatement.java
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*     Matt McCutchen - partial fix for https://bugs.eclipse.org/bugs/show_bug.cgi?id=122995
```

```
*     Karen Moore - fix for https://bugs.eclipse.org/bugs/show_bug.cgi?id=207411
*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*           bug 185682 - Increment/decrement operators mark local variables as read
*           bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365519 - editorial cleanup after
 bug 186342 and bug 365387
*       bug 374605 - Unreasonable warning for enum-based switch statements
*       bug 384870 - [compiler] @Deprecated annotation not detected if preceded by other annotation
*       bug 393719 - [compiler] inconsistent warnings on iteration variables
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 424742 - [1.8] NPE in LambdaExpression.isCompatibleWith
*       Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*       Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*       Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*       Bug 426366
 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
*       Bug 427282 - [1.8][compiler] AIOOB (-1) at
org.eclipse.jdt.internal.compiler.ClassFile.traverse(ClassFile.java:6209)
*       Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
*       Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*       Bug 427163 - [1.8][null] bogus error "Contradictory null specification" on varags
*       Bug 432348 - [1.8] Internal compiler error (NPE) after upgrade to 1.8
*       Bug 440143 - [1.8][null] one more case of contradictory null annotations regarding type variables
*       Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*       Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
*       Bug 446442 - [1.8] merge null annotations from super methods
*       Bug 437072 - [compiler][null] Null analysis emits
 possibly incorrect warning for new int[][] despite @NonNullByDefault
*     Jesper S Moller - Contributions for
*       bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
*       bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*       bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*       bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
*       bug 419209 - [1.8] Repeating container annotations should be rejected in the presence of annotation it contains
*     Till Brychcy - Contributions for
*             bug 467094 - [1.8][null] TYPE_USE NullAnnotations of array contents are applied to field.
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*     Stephan Herrmann - Contributions for
*          bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*          bug 349326 - [1.7] new warning for missing try-with-resources
*          bug 360328 - [compiler][null] detect null problems in nested code (local class inside a loop)
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365835 - [compiler][null] inconsistent error reporting.
 *       bug 365519 - editorial cleanup after bug 186342 and bug 365387
*       bug 358903 - Filter practically unimportant resource leak warnings
*       bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*       bug 370639 - [compiler][resource] restore the default for resource leak warnings
*       bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*       bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*       bug 401030 - [1.8][null] Null analysis support for lambda
 methods.
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*       Bug 417758 - [1.8][null] Null safety compromise during array creation.
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*       Bug 430150 - [1.8][null] stricter checking against type variables
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*       Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*       Bug 455723 - Nonnull argument not correctly inferred in loop
*     Jesper S Moller - Contributions
 for
*       bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/EclipseCompilerRequestor.java
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* Stephan Herrmann - Contributions for
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 417295 - [1.8[[null] Massage type annotated
null analysis to gel well with deep encoded type bindings.
* Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ParameterizedMethodBinding.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/RoundDispatcher.java
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*        bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*        bug 383368 - [compiler][null] syntactic null analysis for field references
*        bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*        bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*        Bug
 422796 - [compiler][null] boxed boolean reported as potentially null after null test in lazy disjunction
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*     Stephan Herrmann - Contributions for
*        bug 335093 - [compiler][null] minimal hook for future null annotation support
*        bug 349326 - [1.7] new warning for missing try-with-resources
*        bug 186342 - [compiler][null] Using annotations for null checking
*        bug 365983 - [compiler][null] AIOOB with null annotation analysis and varargs
*        bug 368546 - [compiler][resource] Avoid remaining false positives found when
 compiling the Eclipse SDK
*        bug 370930 - NonNull annotation not considered for enhanced for loops
*        bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*        bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*        bug 331649 - [compiler][null] consider null annotations for fields
*        bug 383368 - [compiler][null] syntactic null analysis for field references
*        Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*        Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*        Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
```

```
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*       Bug 417758 - [1.8][null] Null safety compromise
 during array creation.
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*       Bug 418537 - [1.8][null] Fix null type annotation analysis for poly conditional expressions
*       Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*       Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException
instead of IOException)
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*       Bug 455723 - Nonnull argument not correctly inferred in loop
*       Andy Clement - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
 work)
*                       Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/Statement.java
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*
* Contributors:
*    tyeung@bea.com - initial API and implementation
*    olivier_thomann@ca.ibm.com - add hashCode() and equals(..) methods
*******************************************************************************/
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Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationInfo.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/ElementValuePairInfo.java
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Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathJep247Jdk12.java
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* Contributors:
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* Stephan Herrmann - Contributions for
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 383368 - [compiler][null] syntactic null analysis for field references
* bug 402993 - [null] Follow up
 of bug 401088: Missing warning about redundant null check
* Bug 440282 - [resource] Resource leak detection false negative with empty finally block
**********/

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/Block.java
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*    wharley@bea.com - initial API and implementation
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Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/IProcessorProvider.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/model/NameImpl.java
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* Contributors:
*     IBM Corporation - initial API and implementation
*     Stephan Herrmann - Contributions for
*       bug 349326 - [1.7] new warning for missing try-with-resources
```

```
*       bug 358903 - Filter practically unimportant resource leak warnings
*       bug 381445 - [compiler][resource] Can the resource leak check be made aware of Closeables.closeQuietly?
*       bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
*       bug 382069 - [null] Make
 the null analysis consider JUnit's assertNotNull similarly to assertions
*       Bug 405569 - Resource leak check false positive when using DbUtils.closeQuietly
*       Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
*       Bug 425183 - [1.8][inference] make CaptureBinding18 safe
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
*    Jesper S Moller - Contributions for
*       Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*       Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*       bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*    Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 405104 - [1.8][compiler][codegen]
 Implement support for serializeable lambdas
*    Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
*                       bug 386692 - Missing "unused" warning on "autowired" fields
*    Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
*                       bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown
when using MethodSource
*******************************************************************************/
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Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/TypeConstants.java
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Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/util/EclipseFileManager.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-

jar/org/eclipse/jdt/internal/compiler/tool/EclipseFileManager.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/codegen/StackMapFrameCodeStream.java
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* Contributors:
*    wharley@bea.com - initial API and implementation
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Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/apt/model/PackageElementImpl.java
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*     Jesper S Moller - Contributions for
*       Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*       Bug 406973 - [compiler] Parse MethodParameters attribute
*        Andy Clement - Contributions for
*                        Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
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Found
 in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-

jar/org/eclipse/jdt/internal/compiler/codegen/AttributeNamesConstants.java
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* Contributors:
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*     Stephan Herrmann - Contribution for
*       bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
 *       Bug 429403 - [1.8][null] null mismatch from type arguments is not reported at field initializer
*       Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*       Bug 458396 - NPE in CodeStream.invoke()
*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*       Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/ast/FieldDeclaration.java
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*     Stephan Herrmann - contributions for
*           bug 336428 - [compiler][null] bogus warning "redundant null check" in condition of do {} while() loop
*       bug 186342 - [compiler][null] Using annotations for null checking
```

```
*       bug 365519 - editorial cleanup after bug 186342 and bug 365387
*       bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*       bug 365859 - [compiler][null]
 distinguish warnings based on flow analysis vs. null annotations
*       bug 385626 - @NonNull fails across loop boundaries
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 376263 - Bogus "Potential null pointer access" warning
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*       bug 406384 - Internal error with I20130413
*       Bug 415413 - [compiler][null] NullpointerException in Null Analysis caused by interaction of
LoopingFlowContext and FinallyFlowContext
*       Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*       Bug 455557 - [jdt] NPE LoopingFlowContext.recordNullReference
*       Bug 455723 - Nonnull argument not correctly inferred in loop
*       Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
*       Bug 421035 - [resource]
 False alarm of resource leak warning when casting a closeable in its assignment
*     Jesper S Moller - contributions for
*       bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops
*******************************************************************************/
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Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/LoopingFlowContext.java
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* Contributors:
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*     Stephan Herrmann - Contribution for
*       Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
*       Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker hint from applicability
analysis
*       Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
*     Till Brychcy - Contribution for
*       Bug 473713
 - [1.8][null] Type mismatch: cannot convert from @NonNull A1 to @NonNull A1
*******************************************************************************/
```

```
/* Cache the derived type, tagging it as a derivative of both the key type and the naked type.
   E.g: int @NonNull [] would be tagged as a derived type of both int and int []. This is not
   needed for correctness, but for annotated object reuse. We provide two alternate ways to
   annotate a type:

   Taking parameterized types as an example, a call to getParamaterizedType can be made with annotations
   to create @NonNull List<@NonNull String> in one stroke. Or a parameterized type can be created first
   and then annotated via getAnnotatedType. In the former case, the tables get looked up with List as
   the key, in the latter with List<String> as the key.

   Binary vs source, substitutions, annotation re-attribution from SE7 locations etc trigger these
   alternate code paths. Unless care is exercised,
 we will end up with duplicate objects (that share
   the same TypeBinding.id => correctness is not an issue, but memory wastage is)
  */
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/TypeSystem.java
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*       bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*       bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 415850 - [1.8] Ensure RunJDTCoreTests
 can cope with null annotations enabled
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 427163 - [1.8][null] bogus error "Contradictory null specification" on varags
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
*       Bug 434600 - Incorrect null analysis error reporting on type parameters
*       Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*       Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
```

```
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 437072 - [compiler][null] Null analysis
 emits possibly incorrect warning for new int[][] despite @NonNullByDefault
*       Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                       Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code
generator
*                       Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code
generator
*     Jesper S Møller <jesper@selskabet.org> -  Contributions for
*                       bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*                       bug 529556 - [18.3] Add content assist support for 'var' as a type
*
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 in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/ast/TypeReference.java
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Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/lookup/ParameterNonNullDefaultProvider.java
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*     Jesper S Moller - Contributions for
*       Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*       Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile
```

```
*       Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
*       Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com
 - Contributions for
*                       Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*                       Bug 439889 - [1.8][compiler] [lambda] Deserializing lambda fails with IllegalArgumentException:
"Invalid lambda deserialization"
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Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/ConstantPool.java
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*     Stephan Herrmann - Contributions for
*         bug 186342 - [compiler][null] Using annotations for null checking
*       bug 387612 - Unreachable catch block...exception is never thrown from the try
*       bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*       bug 401456 - Code compiles from javac/intellij, but fails from eclipse
*       bug 401271 - StackOverflowError
 when searching for a methods references
*       bug 405706 - Eclipse compiler fails to give compiler error when return type is a inferred generic
*       Bug 408441 - Type mismatch using Arrays.asList with 3 or more implementations of an interface with the
interface type as the last parameter
*       Bug 413958 - Function override returning inherited Generic Type
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 416183 - [1.8][compiler][null] Overload resolution fails with null annotations
*       Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*       Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*       Bug 424415 - [1.8][compiler]
 Eventual resolution of ReferenceExpression is not seen to be happening.
*       Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload
context
*       Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
```

*	Bug 426589 - [1.8][compiler] Compiler error with generic method/constructor invocation as vargs argument
*	Bug 426590 - [1.8][compiler] Compiler error with tenary operator
*	Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
*	Bug 426998 - [1.8][compiler] method(java.lang.Class, java.lang.String) not applicable for the arguments (java.lang.Class, java.lang.String)
*	Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
*	Bug 427196 - [1.8][compiler] Compiler error for method reference to overloaded method
*	Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
*	Bug
427728 - [1.8] Type Inference rejects calls requiring boxing/unboxing
*	Bug 427218 - [1.8][compiler] Verify error varargs + inference
*	Bug 426836 - [1.8] special handling for return type in references to method getClass()?
*	Bug 427628 - [1.8] regression : The method * is ambiguous for the type *
*	Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*	Bug 428366 - [1.8] [compiler] The method valueAt(ObservableList<Object>, int) is ambiguous for the type Bindings
*	Bug 424728 - [1.8][null] Unexpected error: The nullness annotation 'XXXX' is not applicable at this location
*	Bug 428811 - [1.8][compiler] Type witness unnecessarily required
*	Bug 429424 - [1.8][inference] Problem inferring type of method's parameter
*	Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*	Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner
class
*	Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
*	Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
*	Bug 452194 - Code no longer compiles in 4.4.1, but with confusing error
*	Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*	Bug 456236 - [1.8][null] Cannot infer type when constructor argument is annotated with @Nullable
*	Bug 437072 - [compiler][null] Null analysis emits possibly incorrect warning for new int[][] despite @NonNullByDefault
*	Bug 462083 - [1.8][inference] Java 8 generic return type mismatch with interface involving type parameter.
*	Jesper S Moller - Contributions for
*	Bug 378674 - "The method can be declared as static" is wrong
*	Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*	Andy Clement (GoPivotal, Inc)
aclement@gopivotal.com - Contributions for
*	Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*	Pierre-Yves B. <pyvesdev@gmail.com> - Contributions for
*	Bug 559618 - No compiler warning for import from same package
*	Bug 560630 - No warning on unused import on class from same package
**********/

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/Scope.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/GenericXMLWriter.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/ManifestAnalyzer.java
*
 /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/UnresolvedAnnotationBinding.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/ReferenceContext.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/DefaultErrorHandlingPolicies.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/DefaultProblemFactory.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-

jar/org/eclipse/jdt/internal/compiler/ast/Receiver.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/flow/InsideSubRoutineFlowContext.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/core/JDTCompilerAdapter.java
*
/opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/impl/CompilerStats.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/IErrorHandlingPolicy.java
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* Stephan Herrmann - Contributions for
* bug 325755 - [compiler] wrong initialization state after conditional expression
* bug 320170 - [compiler] [null] Whitebox issues in null analysis
* bug 292478 - Report potentially null across variable assignment
* bug 332637 - Dead Code detection removing code that isn't dead
* bug 341499 - [compiler][null] allocate extra bits in all methods of UnconditionalFlowInfo
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 386181 - [compiler][null] wrong transition in UnconditionalFlowInfo.mergedWith()
* bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
* Bug 453483 - [compiler][null][loop] Improve null analysis for loops
* Bug 454031 - [compiler][null][loop] bug in null analysis; wrong "dead code" detection
* Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
***/

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/flow/UnconditionalFlowInfo.java
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* bug 383368 - [compiler][null] syntactic null analysis for field references
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 417295 - [1.8[[null]
 Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
* Andy Clement - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
**********/

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/InstanceOfExpression.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IBinaryNestedType.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IGenericType.java
*
 /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/ISourceField.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IGenericField.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/ISourceMethod.java
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* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 374605 - Unreasonable warning for enum-based switch statements
* bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
* bug 382354 - [1.8][compiler] Compiler silent on conflicting modifier
* bug 401030 - [1.8][null] Null analysis support for lambda methods.
* Bug
 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

```
*     Jesper S Moller - Contributions for
*       bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*******************************************************************************/
```

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*       Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
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*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
```

```
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 in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/ast/ArrayReference.java
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*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*       bug 328281 - visibility leaks not detected when analyzing unused field in private class
*       bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365836 - [compiler][null] Incomplete propagation of null defaults.
*       bug 365519 - editorial cleanup after bug 186342
 and bug 365387
*       bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*       bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*       bug 366063 - Compiler should not add synthetic @NonNull annotations
*       bug 384663 - Package Based Annotation Compilation Error in JDT 3.8/4.2 (works in 3.7.2)
*       bug 386356 - Type mismatch error with annotations and generics
*       bug 388281 - [compiler][null] inheritance of null annotations as an option
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 380896 - [compiler][null] Enum constants not recognised as being NonNull.
*       bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
 *       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*       Bug 416172 - [1.8][compiler][null] null type annotation not evaluated on method return type
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 426048 - [1.8] NPE in TypeVariableBinding.internalBoundCheck when parentheses are not balanced
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 432348 - [1.8] Internal compiler error (NPE) after upgrade to 1.8
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*       Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
```

```
*       Bug 441693 - [1.8][null]
 Bogus warning for type argument annotated with @NonNull
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
*       Bug 461250 - ArrayIndexOutOfBoundsException in SourceTypeBinding.fields
*       Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*     Jesper S Moller <jesper@selskabet.org> -  Contributions for
*       Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*     Till Brychcy - Contributions for
*           bug 415269 - NonNullByDefault is not always inherited to nested classes
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                     Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*     Sebastian Zarnekow - Contributions
 for
*       bug 544921 - [performance] Poor performance with large source files
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/Messages.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredInitializer.java
*
 /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/MemberTypeBinding.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/ProblemSeverities.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/SuffixConstants.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/SourceTypeCollisionException.java
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*       Bug 378674 - "The method can be declared as static" is wrong
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*     Tom Tromey - patch for readTable(String) as described in http://bugs.eclipse.org/bugs/show_bug.cgi?id=32196
*     Stephan Herrmann - Contributions for
*       bug 366003 - CCE in ASTNode.resolveAnnotations(ASTNode.java:639)
*       bug 374605 - Unreasonable warning for enum-based switch statements
*       bug 393719 - [compiler] inconsistent warnings on iteration variables
*       bug 382353 - [1.8][compiler] Implementation property modifiers
 should be accepted on default methods.
*       bug 383973 - [1.8][compiler] syntax recovery in the presence of default methods
*       bug 401035 - [1.8] A few tests have started failing recently
*     Jesper S Moller - Contributions for
*      bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*      bug 399695 - [1.8][compiler] [1.8][compiler] migrate parser to other syntax for default methods
*      bug 384567 - [1.5][compiler] Compiler accepts illegal modifiers on package declaration
*      bug 393192 - Incomplete type hierarchy with > 10 annotations
*      bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*       Andy Clement - Contributions for
*                    Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                    Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
```

```
*
            Bug 415821 - [1.8][compiler] CLASS_EXTENDS target type annotation missing for anonymous classes
*******************************************************************************/
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*     Stephan Herrmann - Contribution for
*       Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*       Bug 440687 - [compiler][batch][null] improve command line option for external annotations
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathJar.java

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*       Bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*     Keigo Imai - Contribution for  bug 388903 - Cannot extend inner class as an anonymous class when it
 extends the outer class
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/ByteConstant.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/AccessRuleSet.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/DoubleConstant.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/FloatConstant.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/CharConstant.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/StringConstant.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/BooleanConstant.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/LongConstant.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfObject.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocArgumentExpression.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/ShortConstant.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/IntConstant.java
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*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocSingleTypeReference.java
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*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                       Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array
*                       Bug 409517 - [1.8][compiler] Type annotation problems on more elaborate array references
*
                  Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
*******************************************************************************/
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*     het@google.com - Bug 441790
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/INameEnvironmentExtension.java
*
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* Jesper S Moller - Bug 392671
* NPE with a method with explicit this and a following incomplete parameter
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ImportBinding.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ASTVisitor.java
*
 /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/JavadocTagConstants.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/JavadocParser.java
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* bug 383973 - [1.8][compiler] syntax recovery in the presence of default methods
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*       Bug 186342 - [compiler][null] Using annotations for null checking
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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*         Bug 407191 - [1.8] Binary access support for type annotations
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*       bug 400710 - [1.8][compiler] synthetic access to default method generates wrong code
*       bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
*       bug 421543 - [1.8][compiler] Compiler fails to recognize default method being turned into abstract by subtytpe
*     Jesper S Moller - Contributions for
*      Bug 405066 - [1.8][compiler][codegen] Implement
 code generation infrastructure for JSR335
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                    Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
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*                    Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array
*                    Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code
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*                    Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
*                    Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*                    Bug 449467 - [1.8][compiler] Invalid lambda deserialization with anonymous class
*       Olivier Tardieu (tardieu@us.ibm.com) - Contributions for
*                    Bug 442418 - $deserializeLambda$ off-by-one error when deserializing the captured arguments
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*    IBM Corporation - Fix for bug 341494
*    IBM Corporation - Fix for bug 328575
*    IBM Corporation - Java 8 support
*******************************************************************************/
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Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/model/ElementsImpl.java
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Found in path(s):
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/model/PrimitiveTypeImpl.java
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* Contributors:
*    IBM Corporation - initial API and implementation
*    IBM Corporation - fix for 342936
*    Kenneth Olson - Contribution for bug 188796 - [jsr199] Using JSR199 to extend ECJ
*    Dennis Hendriks - Contribution for bug 188796 - [jsr199] Using JSR199 to extend ECJ
*    Frits Jalvingh  - fix for bug 533830.
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/EclipseCompilerImpl.java
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Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathJmod.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfInteger.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/ArchiveFileObject.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/util/Util.java
*
 /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/Util.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/util/ArchiveFileObject.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/Archive.java
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*       bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax
*       bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*       bug 404728 - [1.8]NPE on QualifiedSuperReference error
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/QualifiedSuperReference.java
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*     Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking
*     Jesper S Moller  -. Contribution for bug 400830: [1.8][formatter] Code formatter for Java 8
*******************************************************************************/
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Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/Scanner.java
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*     Stephan Herrmann - Contribution for bug 349326 - [1.7] new warning for missing try-with-resources
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Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemReferenceBinding.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ExternalAnnotationSuperimposer.java
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*     Patrick Wienands <pwienands@abit.de> - Contribution for bug 393749
*     Stephan Herrmann - Contribution for
*       bug 331649 - [compiler][null] consider null annotations for fields
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/Clinit.java
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*     Benjamin Muskalla - Contribution for bug 239066
*     Stephan Herrmann - Contribution for
*          bug 382347 - [1.8][compiler] Compiler accepts incorrect default method inheritance
*       bug 388954 - [1.8][compiler] detect default methods in class files
*       bug 388281 - [compiler][null] inheritance of null annotations as an option
*       bug 388739 - [1.8][compiler] consider default methods when detecting whether a class needs
 to be declared abstract
*       bug 390883 - [1.8][compiler] Unable to override default method
*       bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
*       bug 395681 - [compiler] Improve simulation of javac6 behavior from bug 317719 after fixing bug 388795
*       bug 406928 - computation of inherited methods seems damaged (affecting @Overrides)
*       bug 409473 - [compiler] JDT cannot compile against JRE 1.8
*       Bug 420080 - [1.8] Overridden Default method is reported as duplicated
*******************************************************************************/
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Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/MethodVerifier.java
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*       bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
 checking
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Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/AssertStatement.java
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*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*       Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ArrayTypeReference.java
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* Tom Tromey - Contribution for bug 159641
* Benjamin Muskalla - Contribution for bug 239066
* Stephan Herrmann - Contributions for
* bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
* bug 295551 - Add option to automatically promote all warnings to errors
* bug 359721 - [options] add command line option
for new warning token "resource"
* bug 365208 - [compiler][batch] command line options for annotation based null analysis
* bug 374605 - Unreasonable warning for enum-based switch statements
* bug 375366 - ECJ ignores unusedParameterIncludeDocCommentReference unless enableJavadoc option is set
* bug 388281 - [compiler][null] inheritance of null annotations as an option
* bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
* Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
* Bug 440687 - [compiler][batch][null] improve command line option for external annotations
* Bug 408815 - [batch][null] Add CLI option for
COMPILER_PB_SYNTACTIC_NULL_ANALYSIS_FOR_FIELDS
* Jesper S Moller - Contributions for
* bug 407297 - [1.8][compiler] Control generation of parameter names by option
* Mat Booth - Contribution for bug 405176
* Frits Jalvingh -
fix for bug 533830.
**********/

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* Stephan Herrmann - Contributions for
* bug 342671 - ClassCastException: org.eclipse.jdt.internal.compiler.lookup.SourceTypeBinding cannot be cast to
org.eclipse.jdt.internal.compiler.lookup.ArrayBinding

```
*       bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 416181 - [1.8][compiler][null] Invalid assignment
 is not rejected by the compiler
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 434600 - Incorrect null analysis error reporting on type parameters
*       Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*       Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>
*       Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*       Andy Clement - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*******************************************************************************/
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Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ParameterizedQualifiedTypeReference.java
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*         Bug 407191 - [1.8] Binary access support for type annotations
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*
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*     Jesper Steen Moeller - Contributions for:
*         Bug 407297: [1.8][compiler] Control generation of parameter names by option
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*                       Bug 415397 - [1.8][compiler] Type Annotations on wildcard type argument dropped
*       Stephan Herrmann - Contribution for
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 429958
 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 440462 - [null][compiler]NPE in EJC for erroneous null annotations
*       Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
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* bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points
* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with
generics (RuntimeException instead of IOException)
**********/

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/problem/DefaultProblem.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/ast/LabeledStatement.java
*
 /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/batch/CompilationUnit.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
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* bug 383368 - [compiler][null] syntactic null analysis for field references
* bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
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* Nick Teryaev - fix for bug (https://bugs.eclipse.org/bugs/show_bug.cgi?id=40752)
* Stephan Herrmann - Contributions for
* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 358903 - Filter practically unimportant resource leak warnings
* bug
370639 - [compiler][resource] restore the default for resource leak warnings
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
* bug 379784 - [compiler] "Method can be static" is not getting reported
* bug 379834 - Wrong "method can be static" in presence of qualified super and different staticness of nested super class.
* bug 388281 - [compiler][null] inheritance of null annotations as an option
* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
* bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
* bug 381445 - [compiler][resource] Can the resource leak check be made aware of Closeables.closeQuietly?

```
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null
 analysis for field references
*       bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
*       bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax
*       bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*       bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 405569 - Resource leak check false positive when using DbUtils.closeQuietly
*       Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis
 to gel well with deep encoded type bindings.
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*       Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*       Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
*       Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*       Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*       Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload
context
*       Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
*       Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
*       Bug 427438 - [1.8][compiler]
 NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*       Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
*       Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*       Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException
instead of IOException)
*       Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
*       Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*       Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
*       Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
*       Bug 472618 - [compiler][null] assertNotNull vs. Assert.assertNotNull
*       Bug 470958 - [1.8] Unable to convert lambda
*       Bug 410218 - Optional warning
 for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
*     Jesper S Moller - Contributions for
*       Bug 378674 - "The method can be declared as static" is wrong
*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                       Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic
bridge method
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```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/MessageSend.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredAnnotation.java
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*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*       bug 292478 - Report potentially null across variable assignment,
*       bug 185682 - Increment/decrement operators mark local variables as read
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       Bug 412203 - [compiler] Internal compiler error: java.lang.IllegalArgumentException:
 info cannot be null
*       Bug 458396 - NPE in CodeStream.invoke()
*       Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
*     Jesper S Moller - <jesper@selskabet.org>   - Contributions for
*           bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
*       bug 378674 - "The method can be declared as static" is wrong
*       bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops
*       bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*******************************************************************************/
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Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/SingleNameReference.java
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* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
* bug 282152 - [1.5][compiler] Generics code rejected by Eclipse but accepted by javac
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
* bug 358903 - Filter practically unimportant resource leak warnings
* bug 395002 - Self bound generic class
doesn't resolve bounds properly for wildcards for certain parametrisation.
* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 426792 - [1.8][inference][impl] generify new type inference engine
* Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
* Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
* Bug 431269 - [1.8][compiler][null] StackOverflow in nullAnnotatedReadableName
* Bug 431408 - Java 8 (1.8) generics bug
* Bug 435962 - [RC2] StackOverFlowError when building
* Bug
438458 - [1.8][null] clean up handling of null type annotations wrt type variables
* Bug 438250 - [1.8][null] NPE trying to report bogus null annotation conflict
* Bug 438179 - [1.8][null] 'Contradictory null annotations' error on type variable with explicit null-annotation.
* Bug 440143 - [1.8][null] one more case of contradictory null annotations regarding type variables
* Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
* Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker hint from applicability analysis
* Bug 456459 - Discrepancy between Eclipse compiler and javac - Enums, interfaces, and generics
* Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
* Bug 462790 - [null] NPE in Expression.computeConversion()
* Bug 456532 - [1.8][null] ReferenceBinding.appendNullAnnotation() includes phantom annotations in error messages
* Jesper S Møller <jesper@selskabet.org> - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
**********/

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/TypeVariableBinding.java
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* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 467032 - TYPE_USE Null Annotations: IllegalStateException with annotated arrays of Enum when accessed via BinaryTypeBinding
**********/

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 in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/UnresolvedReferenceBinding.java
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*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
*       Stephan Herrmann - Contribution for
*       Bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
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 path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/AnnotationTargetTypeConstants.java
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*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 433478 - [compiler][null] NPE in ReferenceBinding.isCompatibleWith
*******************************************************************************/
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*     Benjamin Muskalla - Contribution for bug 239066
*     Stephan Herrmann  - Contributions for
*          bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
*          bug 338303 - Warning about Redundant assignment conflicts with definite assignment
*       bug 349326 - [1.7] new warning for missing try-with-resources
```

* bug 186342 - [compiler][null] Using annotations for null checking
* bug 365519 - editorial cleanup after bug 186342 and bug 365387
* bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
* bug 374605 - Unreasonable warning for enum-based switch statements
* bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
* bug 382347 - [1.8][compiler] Compiler accepts incorrect default method inheritance
* bug 388281 - [compiler][null] inheritance of null annotations as an option
* bug 376053 - [compiler][resource] Strange potential resource leak problems
* bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
* bug 393719 - [compiler] inconsistent warnings on iteration
variables
* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
* bug 388739 - [1.8][compiler] consider default methods when detecting whether a class needs to be declared abstract
* bug 331649 - [compiler][null] consider null annotations for fields
* bug 382789 - [compiler][null] warn when syntactically-nonnull expression is compared against null
* bug 376590 - Private fields with @Inject are ignored by unused field validation
* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
* bug 402028 - [1.8][compiler] null analysis for reference expressions
* bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
* Bug
392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
* Bug 414380 - [compiler][internal] QualifiedNameReference#indexOfFirstFieldBinding does not point to the first field
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 424637 - [1.8][compiler][null] AIOOB in ReferenceExpression.resolveType with a method reference to Files::walk
* Bug 428294 - [1.8][compiler] Type mismatch: cannot convert
from List<Object> to Collection<Object[]>
* Bug 428366 - [1.8] [compiler] The method valueAt(ObservableList<Object>, int) is ambiguous for the type Bindings
* Bug 416190 - [1.8][null] detect incompatible overrides due to null type annotations
* Bug 392245 - [1.8][compiler][null] Define whether / how @NonNullByDefault applies to TYPE_USE locations
* Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
* Bug 430150 - [1.8][null] stricter checking against type variables
* Bug 434600 - Incorrect null analysis error reporting on type parameters
* Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
* Bug 438467 - [compiler][null] Better error position for "The method _ cannot implement the corresponding method _ due to incompatible nullness constraints"

```
*       Bug 439298 - [null] "Missing code implementation in the compiler" when using @NonNullByDefault
 in package-info.java
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 446442 - [1.8] merge null annotations from super methods
*       Bug 455723 - Nonnull argument not correctly inferred in loop
*       Bug 458361 - [1.8][null] reconciler throws NPE in ProblemReporter.illegalReturnRedefinition()
*       Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
*       Bug 461878 - [1.7][1.8][compiler][null] ECJ compiler does not allow to use null annotations on annotations
*       Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
*     Jesper S Moller <jesper@selskabet.org> -  Contributions for
*       bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*       bug 382721 - [1.8][compiler] Effectively final variables needs
 special treatment
*       bug 384567 - [1.5][compiler] Compiler accepts illegal modifiers on package declaration
*       bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*       bug 412151 - [1.8][compiler] Check repeating annotation's collection type
*       bug 419209 - [1.8] Repeating container annotations should be rejected in the presence of annotation it contains
*       Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
*       Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
*       bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*     Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
*                         bug 386692 - Missing "unused" warning on "autowired" fields
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*     Stephan Herrmann - Contribution for
*       bug 384380 - False positive on a "Potential null pointer access" after a continue
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/lookup/BinaryModuleBinding.java
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* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
* Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop
 with close in try/catch
***/

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-

jar/org/eclipse/jdt/internal/compiler/ast/DoStatement.java
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Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ModuleScope.java
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* Contributors:
*     IBM Corporation - initial API and implementation
*     Stephan Herrmann - Contributions for
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       bug 388281 - [compiler][null] inheritance of null annotations as an option
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*******************************************************************************/
```

Found
 in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/TagBits.java
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* Contributors:
*     IBM Corporation - initial API and implementation
*     Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*         Bug 407191 - [1.8] Binary access support for type annotations
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IBinaryMethod.java
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*
* Contributors:
*     IBM Corporation - initial API and implementation
*     IBM Corporation - added the following constants
*         NonStaticAccessToStaticField
*         NonStaticAccessToStaticMethod
*         Task
*         ExpressionShouldBeAVariable
*         AssignmentHasNoEffect
*     IBM Corporation - added the following constants
*         TooManySyntheticArgumentSlots
*         TooManyArrayDimensions
*         TooManyBytesForStringConstant
*         TooManyMethods
*         TooManyFields
*         NonBlankFinalLocalAssignment
*         ObjectCannotHaveSuperTypes
*         MissingSemiColon
*         InvalidParenthesizedExpression
*         EnclosingInstanceInConstructorCall
```

```
*       BytecodeExceeds64KLimitForConstructor
*       IncompatibleReturnTypeForNonInheritedInterfaceMethod
*       UnusedPrivateMethod
*       UnusedPrivateConstructor
*       UnusedPrivateType
*       UnusedPrivateField
*       IncompatibleExceptionInThrowsClauseForNonInheritedInterfaceMethod
*       InvalidExplicitConstructorCall
*    IBM Corporation - added the following constants
*       PossibleAccidentalBooleanAssignment
*       SuperfluousSemicolon
*       IndirectAccessToStaticField
*       IndirectAccessToStaticMethod
*       IndirectAccessToStaticType
*       BooleanMethodThrowingException
*       UnnecessaryCast
*       UnnecessaryArgumentCast
*       UnnecessaryInstanceof
*
  FinallyMustCompleteNormally
*       UnusedMethodDeclaredThrownException
*       UnusedConstructorDeclaredThrownException
*       InvalidCatchBlockSequence
*       UnqualifiedFieldAccess
*    IBM Corporation - added the following constants
*       Javadoc
*       JavadocUnexpectedTag
*       JavadocMissingParamTag
*       JavadocMissingParamName
*       JavadocDuplicateParamName
*       JavadocInvalidParamName
*       JavadocMissingReturnTag
*       JavadocDuplicateReturnTag
*       JavadocMissingThrowsTag
*       JavadocMissingThrowsClassName
*       JavadocInvalidThrowsClass
*       JavadocDuplicateThrowsClassName
*       JavadocInvalidThrowsClassName
*       JavadocMissingSeeReference
*       JavadocInvalidSeeReference
*       JavadocInvalidSeeHref
*       JavadocInvalidSeeArgs
*       JavadocMissing
*       JavadocInvalidTag
*       JavadocMessagePrefix
 *       EmptyControlFlowStatement
*    IBM Corporation - added the following constants
*       IllegalUsageOfQualifiedTypeReference
```

```
*        InvalidDigit
*    IBM Corporation - added the following constants
*        ParameterAssignment
*        FallthroughCase
*    IBM Corporation - added the following constants
*                        UnusedLabel
*                        UnnecessaryNLSTag
*                        LocalVariableMayBeNull
*                        EnumConstantsCannotBeSurroundedByParenthesis
*                        JavadocMissingIdentifier
*                        JavadocNonStaticTypeFromStaticInvocation
*                        RawTypeReference
*                        NoAdditionalBoundAfterTypeVariable
*                        UnsafeGenericArrayForVarargs
*                        IllegalAccessFromTypeVariable
*
  AnnotationValueMustBeArrayInitializer
*                        InvalidEncoding
*                        CannotReadSource
*                        EnumStaticFieldInInInitializerContext
*                        ExternalProblemNotFixable
*                        ExternalProblemFixable
*    IBM Corporation - added the following constants
*                        AnnotationValueMustBeAnEnumConstant
*                        OverridingMethodWithoutSuperInvocation
*                        MethodMustOverrideOrImplement
*                        TypeHidingTypeParameterFromType
*                        TypeHidingTypeParameterFromMethod
*                        TypeHidingType
*    IBM Corporation - added the following constants
*        NullLocalVariableReference
*        PotentialNullLocalVariableReference
*        RedundantNullCheckOnNullLocalVariable
*         NullLocalVariableComparisonYieldsFalse
 *         RedundantLocalVariableNullAssignment
*         NullLocalVariableInstanceofYieldsFalse
*         RedundantNullCheckOnNonNullLocalVariable
*         NonNullLocalVariableComparisonYieldsFalse
*    IBM Corporation - added the following constants
*                        InvalidUsageOfTypeParametersForAnnotationDeclaration
*                        InvalidUsageOfTypeParametersForEnumDeclaration
*    IBM Corporation - added the following constants
*        RedundantSuperinterface
*  Benjamin Muskalla - added the following constants
*       MissingSynchronizedModifierInInheritedMethod
*  Stephan Herrmann  - added the following constants
*       UnusedObjectAllocation
*       PotentiallyUnclosedCloseable
```

* PotentiallyUnclosedCloseableAtExit
* UnclosedCloseable
* UnclosedCloseableAtExit
* ExplicitlyClosedAutoCloseable
* RequiredNonNullButProvidedNull
* RequiredNonNullButProvidedPotentialNull
* RequiredNonNullButProvidedUnknown
* NullAnnotationNameMustBeQualified
* IllegalReturnNullityRedefinition
* IllegalRedefinitionToNonNullParameter
* IllegalDefinitionToNonNullParameter
* ParameterLackingNonNullAnnotation
* ParameterLackingNullableAnnotation
* PotentialNullMessageSendReference
* RedundantNullCheckOnNonNullMessageSend
* CannotImplementIncompatibleNullness
* RedundantNullAnnotation
* RedundantNullDefaultAnnotation
* RedundantNullDefaultAnnotationPackage
* RedundantNullDefaultAnnotationType
* RedundantNullDefaultAnnotationMethod
* ContradictoryNullAnnotations
* IllegalAnnotationForBaseType
* RedundantNullCheckOnSpecdNonNullLocalVariable
* SpecdNonNullLocalVariableComparisonYieldsFalse
* RequiredNonNullButProvidedSpecdNullable
* MissingDefaultCase
* MissingEnumConstantCaseDespiteDefault
* UninitializedLocalVariableHintMissingDefault
* UninitializedBlankFinalFieldHintMissingDefault
* ShouldReturnValueHintMissingDefault
* IllegalModifierForInterfaceDefaultMethod
* InheritedDefaultMethodConflictsWithOtherInherited
* ConflictingNullAnnotations
* ConflictingInheritedNullAnnotations
* UnsafeElementTypeConversion
* ArrayReferencePotentialNullReference
* DereferencingNullableExpression
* NullityMismatchingTypeAnnotation
* NullityMismatchingTypeAnnotationSuperHint
* NullityUncheckedTypeAnnotationDetail
* NullityUncheckedTypeAnnotationDetailSuperHint
* NullableFieldReference
* UninitializedNonNullField
* UninitializedNonNullFieldHintMissingDefault
* NonNullMessageSendComparisonYieldsFalse
* RedundantNullCheckOnNonNullSpecdField
* NonNullSpecdFieldComparisonYieldsFalse

```
 *      NonNullExpressionComparisonYieldsFalse
*       RedundantNullCheckOnNonNullExpression
*       ReferenceExpressionParameterNullityMismatch
*       ReferenceExpressionParameterNullityUnchecked
*       ReferenceExpressionReturnNullRedef
*       ReferenceExpressionReturnNullRedefUnchecked
*       DuplicateInheritedDefaultMethods
*       SuperAccessCannotBypassDirectSuper
*       SuperCallCannotBypassOverride
*       ConflictingNullAnnotations
*       ConflictingInheritedNullAnnotations
*       UnsafeElementTypeConversion
*       PotentialNullUnboxing
*       NullUnboxing
*       NullExpressionReference
*       PotentialNullExpressionReference
*       RedundantNullCheckAgainstNonNullType
*       NullAnnotationUnsupportedLocation
*       NullAnnotationUnsupportedLocationAtType
*       NullityMismatchTypeArgument
*       ContradictoryNullAnnotationsOnBound
*       UnsafeNullnessCast
 *      ContradictoryNullAnnotationsInferred
*       NonNullDefaultDetailIsNotEvaluated
*       NullNotCompatibleToFreeTypeVariable
*       NullityMismatchAgainstFreeTypeVariable
*       ImplicitObjectBoundNoNullDefault
*       IllegalParameterNullityRedefinition
*       ContradictoryNullAnnotationsInferredFunctionType
*       IllegalReturnNullityRedefinitionFreeTypeVariable
*       UnlikelyCollectionMethodArgumentType
*       UnlikelyEqualsArgumentType
*     Jesper S Moller  - added the following constants
*       TargetTypeNotAFunctionalInterface
*       OuterLocalMustBeEffectivelyFinal
*       IllegalModifiersForPackage
*       DuplicateAnnotationNotMarkedRepeatable
*       DisallowedTargetForContainerAnnotation
*       RepeatedAnnotationWithContainerAnnotation
*       ContainingAnnotationMustHaveValue
*       ContainingAnnotationHasNonDefaultMembers
*       ContainingAnnotationHasWrongValueType
*        ContainingAnnotationHasShorterRetention
 *       RepeatableAnnotationHasTargets
*       RepeatableAnnotationTargetMismatch
*       RepeatableAnnotationIsDocumented
*       RepeatableAnnotationIsInherited
*       RepeatableAnnotationWithRepeatingContainerAnnotation
```

```
*       VarLocalMultipleDeclarators
*       VarLocalCannotBeArray
*       VarLocalReferencesItself
*       VarLocalWithoutInitizalier
*       VarLocalInitializedToNull
*       VarLocalCannotBeArrayInitalizers
*       VarLocalCannotBeLambda
*       VarLocalCannotBeMethodReference
*       VarIsReserved
*       VarIsReservedInFuture
*       VarIsNotAllowedHere
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/core/compiler/IProblem.java
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*     IBM Corporation - initial API and implementation
*     Stephan Herrmann - Contribution for
*       Bug 365992 - [builder] [null] Change of nullness for a parameter doesn't trigger a build for the files that call the method
*       Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*       Bug 440687 - [compiler][batch][null] improve command line option for external annotations
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*
            bug 407191 - [1.8] Binary access support for type annotations
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/ClassFileReader.java
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* Contributors:
* Stephan Herrmann - initial API and implementation
* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
* Bug 473178
* IBM Corporation - Bug fixes
**********/

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/BoundSet.java
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* Contributors:
* IBM Corporation - initial API and implementation
* Jesper Steen Moller - Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing
**********/

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/model/ExecutableElementImpl.java
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*     Stephan Herrmann - Contribution for
*       bug 331649 - [compiler][null] consider null annotations for fields
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
*     Jesper S Moller - Contributions for
*      bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
 ********************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/NameReference.java
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* Contributors:
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*     Stephan Herrmann - Contributions for
*       bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 415543 - [1.8][compiler] Incorrect bound index in RuntimeInvisibleTypeAnnotations attribute
********************************************************************************/
```

Found
 in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/TypeParameter.java
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*     Stephan Herrmann - Contribution for
*       bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*       bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*       bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug
 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*       Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*       Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 425460 - [1.8] [inference] Type not inferred on stream.toArray
*       Bug 426792 - [1.8][inference][impl] generify new type inference engine
*       Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*       Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*       Bug 441693 -
 [1.8][null] Bogus warning for type argument annotated with @NonNull
*     Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
*       Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ArrayBinding.java
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* Contributors:
*     IBM Corporation - initial API and implementation
*     Genady Beriozkin - added support for reporting assignment with no effect
*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*       bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
```

```
*       bug 292478 - Report potentially null across variable assignment
*          bug 335093 - [compiler][null] minimal hook for future null annotation support
*          bug 349326 - [1.7] new warning for missing
 try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 358903 - Filter practically unimportant resource leak warnings
*       bug 370639 - [compiler][resource] restore the default for resource leak warnings
*       bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*       bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*       bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 402993 - [null] Follow up of bug 401088: Missing
 warning about redundant null check
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*       Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*       Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/Assignment.java
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* Contributors:
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* Stephan Herrmann - Contributions for
* bug 342671 - ClassCastException: org.eclipse.jdt.internal.compiler.lookup.SourceTypeBinding cannot be cast to org.eclipse.jdt.internal.compiler.lookup.ArrayBinding
* Bug 420894 - ClassCastException in DefaultBindingResolver.resolveType(Type)
* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 434600 - Incorrect null analysis error reporting on type parameters
* Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
* Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>
* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
* Andy Clement - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
***/

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ParameterizedSingleTypeReference.java
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* Stephan Herrmann - Contributions for
* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE

```
*           bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 403147 - [compiler][null] FUP of bug 400761:
 consolidate interaction between unboxing, NPE, and deferred checking
*******************************************************************************/
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Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/IfStatement.java
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* Contributors:
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*     Stephan Herrmann - Contribution for
*       Bug 428811 - [1.8][compiler] Type witness unnecessarily required
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/PolyTypeBinding.java
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* Contributors:
*     IBM Corporation - initial API and implementation
*     Stephan Herrmann - Contribution for
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/NullLiteral.java
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*  Stephan Herrmann - Contribution for
*       bug 400710 - [1.8][compiler] synthetic access to default method generates wrong code
*       Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
*       Bug 470467 - [null] Nullness of special Enum methods not detected from .class file
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                     Bug 405104 -
 [1.8][compiler][codegen] Implement support for serializeable lambdas
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/SyntheticMethodBinding.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-

jar/org/eclipse/jdt/internal/compiler/lookup/SyntheticFactoryMethodBinding.java
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*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 383368 - [compiler][null] syntactic null analysis for field references
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Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/BinaryExpression.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/AptSourceLocalVariableBinding.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModule.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ModuleReference.java
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*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*******************************************************************************/
```

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/SingleTypeReference.java
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*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
```

```
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*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       bug 413958 - Function override returning inherited Generic Type
*       Bug 400874 - [1.8][compiler] Inference infrastructure
 should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*       Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*       Bug 418743 - [1.8][null] contradictory annotations on invocation of generic method not reported
*       Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
*       Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
*       Bug 446442 - [1.8] merge null annotations from super methods
*       Bug 457079 - Regression: type
 inference
*******************************************************************************/

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/lookup/ParameterizedGenericMethodBinding.java
```

1.1978 activation-api 1.2.1

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1.1979 golang-protobuf-extensions 1.0.2

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1.1980 jackson-databind 2.14.0-rc1

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Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

Licensing

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Credits

A list of contributors may be found from CREDITS(-2.x) file, which is included
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from the source code management (SCM) system project uses.

1.1981 javassist 3.29.2-GA

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```
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* /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/expr/ConstructorCall.java
* /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/analysis/Executor.java
* /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/compiler/SyntaxError.java
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* /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/CodeAnalyzer.java
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* /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/BooleanMemberValue.java
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1.1982 docker-go 1.5.1-1.0.20160303222718-d30aec9fd63c

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1.1983 he 1.2.0

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1.1984 yargs 16.2.0

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1.1985 tslib 2.4.0

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1.1986 emoji-regex 8.0.0

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1.1987 text-encoding 0.7.0

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```
// Features is a bitmask of feature flags
type Features uint

const FeatureNone Features = 0

func (f Features) HasFeature(flag Features) bool {
 return false
}
```

otp
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mgo - MongoDB driver for Go

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     @message="Your temporary license expires in {{date-from-now expirationTime}} and your vault will seal.
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     @class="license-warning"
     data-test-cluster-status
     data-test-warning-text
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input"}}
         </div>
       </div>
     </div>
     <div class="field">
       <div class="control">
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       </div>
     </div>
   </form>
 </section>
{{else}}
 <section class="box is-sideless is-fullwidth">
   <span class="title is-5">Details</span>
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        <div class="control">
          {{input id="license-id" value=text autocomplete="off" class="input" data-test-text-input="data-test-text-
input"}}
        </div>
      </div>
      <div class="field is-grouped">
        <div class="control">
          <button type="submit" class="button is-primary" data-test-save-button>Save</button>
        </div>
        <div class="control">
          <button type="button" {{action "toggleForm"}} class="button" data-test-cancel-button>Cancel</button>
        </div>

  </div>
    </form>
  {{else}}
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      {{info-table-row label="License ID" value=licenseId}}
      {{#info-table-row label="Valid from" value=startTime}}
        {{date-format model.startTime 'MMM DD, YYYY hh:mm:ss A'}} to {{date-format expirationTime 'MMM
DD, YYYY hh:mm:ss A'}}
      {{/info-table-row}}
    </div>
    <div class="field box is-fullwidth is-shadowless is-paddingless is-marginless">
      <div class="control">
        <button type="button" {{action "toggleForm"}} class="button" data-test-enter-button>Enter new
license</button>
      </div>
    </div>
  {{/if}}
  </section>
 {{/if}}
<section class="box is-sideless is-marginless is-shadowless is-fullwidth">
 <span class="title is-5">Features</span>
 <div class="field box is-fullwidth is-shadowless is-paddingless is-marginless">
  {{#each featuresInfo as |info|}}
    {{#info-table-row label=info.name value=(if
 info.active "Active" "Not Active") data-test-feature-row="data-test-feature-row"}}
      {{#if info.active}}
      <Icon
        @glyph="check-circle-outline"
        @size="l"
        class="icon-true"
        aria-hidden="true"
```

```
      /><span data-test-feature-status>Active {{#if info.count}}&mdash;
       {{info.count}} standby nodes allotted{{/if}}</span>
      {{else}}
        <Icon
          @glyph="cancel-circle-outline"
          @size="l"
          class="icon-false"
          aria-hidden="true"
        /><span data-test-feature-status>Not Active</span>
      {{/if}}
    {{/info-table-row}}
  {{/each}}
 </div>
</section>
```

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```
<LicenseInfo
 @startTime={{model.startTime}}
 @expirationTime={{model.expirationTime}}
 @licenseId={{model.licenseId}}
 @features={{model.features}}
 @text={{model.text}}
 @saveModel={{action "saveModel"}}
 @model={{model}}
/>
```

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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```
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package github

import (
 "context"
 "fmt"
)

// LicensesService handles communication with the license related
// methods of the GitHub API.
//
// GitHub API docs: https://developer.github.com/v3/licenses/
type LicensesService service

// RepositoryLicense represents the license for a repository.
type RepositoryLicense struct {
 Name *string `json:"name,omitempty"`
 Path *string `json:"path,omitempty"`

 SHA         *string  `json:"sha,omitempty"`
 Size        *int     `json:"size,omitempty"`
 URL         *string  `json:"url,omitempty"`
 HTMLURL     *string  `json:"html_url,omitempty"`
 GitURL      *string  `json:"git_url,omitempty"`
 DownloadURL *string  `json:"download_url,omitempty"`
 Type        *string  `json:"type,omitempty"`
```

```
 Content     *string  `json:"content,omitempty"`
 Encoding    *string  `json:"encoding,omitempty"`
 License
     *License `json:"license,omitempty"`
}

func (l RepositoryLicense) String() string {
 return Stringify(l)
}

// License represents an open source license.
type License struct {
 Key  *string `json:"key,omitempty"`
 Name *string `json:"name,omitempty"`
 URL  *string `json:"url,omitempty"`

 SPDXID         *string   `json:"spdx_id,omitempty"`
 HTMLURL        *string   `json:"html_url,omitempty"`
 Featured       *bool     `json:"featured,omitempty"`
 Description    *string   `json:"description,omitempty"`
 Implementation *string   `json:"implementation,omitempty"`
 Permissions    *[]string `json:"permissions,omitempty"`
 Conditions     *[]string `json:"conditions,omitempty"`
 Limitations    *[]string `json:"limitations,omitempty"`
 Body           *string   `json:"body,omitempty"`
}

func (l License) String() string {
 return Stringify(l)
}

// List popular open source licenses.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s
 *LicensesService) List(ctx context.Context) ([]*License, *Response, error) {
 req, err := s.client.NewRequest("GET", "licenses", nil)
 if err != nil {
  return nil, nil, err
 }

 var licenses []*License
 resp, err := s.client.Do(ctx, req, &licenses)
 if err != nil {
  return nil, resp, err
 }

 return licenses, resp, nil
```

```
}

// Get extended metadata for one license.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(ctx context.Context, licenseName string) (*License, *Response, error) {
 u := fmt.Sprintf("licenses/%s", licenseName)

 req, err := s.client.NewRequest("GET", u, nil)
 if err != nil {
  return nil, nil, err
 }

 license := new(License)
 resp, err := s.client.Do(ctx, req, license)
 if err != nil {
  return nil, resp, err
 }

 return license, resp, nil
}
```

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---
layout: "api"
page_title: "/sys/license - HTTP API"
sidebar_title: "<code>/sys/license</code>"
sidebar_current: "api-http-system-license"
description: |-
 The `/sys/license` endpoint is used to view and update the license used in
 Vault.

`/sys/license`

~> **Enterprise Only** These endpoints require Vault Enterprise.

The `/sys/license` endpoint is used to view and update the license used in Vault.

Read License

This endpoint returns information about the currently installed license.

Method	Path
`GET`	`/sys/license`

Sample Request

```
$ curl \
  --header "X-Vault-Token: ..." \
  http://127.0.0.1:8200/v1/sys/license
```

Sample Response

```json
{
 "data": {
   "expiration_time": "2017-11-14T16:34:36.546753-05:00",
   "features": [
     "UI",
     "HSM",
     "Performance Replication",
     "DR Replication"
   ],
   "license_id": "temporary",
    "start_time": "2017-11-14T16:04:36.546753-05:00"
 },
 "warnings": [
   "time left on license is 29m33s"
 ]
}
```

Install License

This endpoint is used to install a license into Vault.

| Method | Path |

| :---------- | :---------- |
| `PUT` | `/sys/license` |

Parameters

- `text` `(string: <required>)` The text of the license.

DR Secondary Specific Parameters

 - `dr_operation_token` `(string: <required>)` - DR operation token used to authorize this request.

Sample Payload

```json
{
 "text": "01ABCDEFG..."
}
```

Sample Request

```
$ curl \
   --header "X-Vault-Token: ..." \
   --request PUT \
   --data @payload.json \
   http://127.0.0.1:8200/v1/sys/license
```

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1.2007 github.com/prometheus/common/assets 0.2.0

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1.2008 intel-openmp 5.0.20151208

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1.2024 update-browserslist-db 1.0.10

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1.2025 eslint-plugin-react 7.31.10

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1.2026 @babel/helper-simple-access 7.19.4

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1.2027 @babel/plugin-proposal-object-rest-spread 7.19.4

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1.2029 convert-source-map 1.9.0

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1.2030 protobuf 3.20.3

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1.2031 github.com/miekg/pkcs11 1.1.1

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1.2032 dsnet-compress 0.0.1

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1.2033 gopsutil 3.21.5

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1.2034 oauthlib 3.2.2

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1.2035 glibc 2.31-13+deb11u5

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1.2042 x-crypto 0.1.0

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1.2044 bval-jsr 2.0.6

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1.2045 is-core-module 2.11.0

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1.2046 @jridgewell/trace-mapping 0.3.17

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1.2047 github.com/invopop/yaml 0.1.0

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1.2048 invopop-yaml 0.1.0

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1.2049 github.com/xrash/smetrics 0.0.0-20201216005158-039620a65673

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1.2050 golang-lru 0.5.1

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1.2059 lib-pq 1.10.7

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```
//go:build go1.10
// +build go1.10

package pq

import (
 "context"
 "database/sql/driver"
)

// NoticeHandler returns the notice handler on the given connection, if any. A
// runtime panic occurs if c is not a pq connection. This is rarely used
```

```
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
 return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A
// runtime panic occurs if c is not a pq connection. A nil handler may be used
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and
// ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
 c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
//
 on it.
type NoticeHandlerConnector struct {
 driver.Connector
 noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
 c, err := n.Connector.Connect(ctx)
 if err == nil {
  SetNoticeHandler(c, n.noticeHandler)
 }
 return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  return c.noticeHandler
 }
 return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and
```

```
 setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  c.noticeHandler = handler
  return c
 }
 return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}
```

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1.2060 azure-sdk-for-go 59.2.0+incompatible

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1.2061 acorn 8.8.1

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1.2062 promise 8.3.0

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1.2063 ci-info 3.5.0

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1.2064 @types/node 18.11.7

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1.2065 electron-to-chromium 1.4.284

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1.2066 babel-plugin-transform-flow-strip-types 7.19.0

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1.2067 @babel/runtime 7.20.0

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1.2068 docker-credential-helpers 0.7.0

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1.2069 go-errors-errors 1.4.2

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1.2070 expat 2.2.10-2+deb11u5

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1.2072 decimal.js 10.4.2

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1.2073 js-sdsl 4.1.5

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1.2074 @typescript-eslint/type-utils 5.41.0

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1.2075 typescript-eslint-parser 5.41.0

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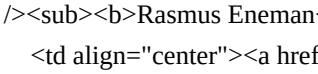

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href="https://github.com/j-f1"> 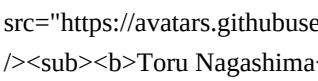

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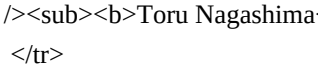

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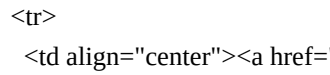

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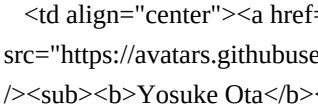

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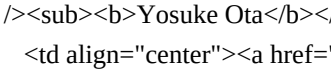

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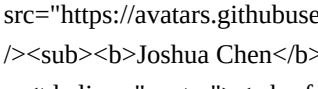

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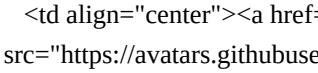

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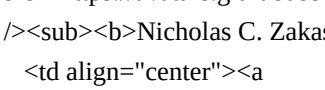

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1.2088 @types/semver 7.3.13

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1.2097 @sinclair/typebox 0.24.51

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1.2108 github.com/googleapis/enterprise-certificate-proxy 0.2.0

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Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
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In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
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2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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1.2112 cristalhq-jwt 4.0.2

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1.2113 yamux 0.1.1

1.2113.1 Available under license :

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lockfileVersion: 5.3

specifiers:
'@sveltejs/vite-plugin-svelte': ^1.0.0-next.30
'@tauri-apps/api': ^1.0.0-beta.8
'@tauri-apps/cli': ^1.0.0-beta.10
'@tsconfig/svelte': ^2.0.1
'@types/crypto-js': ^4.1.0
'@types/node': ^12.0.0

```
 axios: ^0.24.0
 crypto-js: ^4.1.1
 svelte: ^3.44.0
 svelte-check: ^2.2.7
 svelte-preprocess: ^4.9.8
 tslib: ^2.3.1
 typescript: ^4.4.4
 vite: ^2.7.2

dependencies:
 '@tauri-apps/api': 1.0.0-beta.8
 '@types/node': 12.20.42
 axios: 0.24.0
 crypto-js: 4.1.1

devDependencies:
 '@sveltejs/vite-plugin-svelte': 1.0.0-next.36_svelte@3.46.3+vite@2.7.13
 '@tauri-apps/cli': 1.0.0-beta.10
 '@tsconfig/svelte': 2.0.1
 '@types/crypto-js': 4.1.0
 svelte: 3.46.3
 svelte-check: 2.3.0_svelte@3.46.3
 svelte-preprocess: 4.10.2_svelte@3.46.3+typescript@4.5.5
 tslib: 2.3.1
 typescript: 4.5.5
 vite: 2.7.13

packages:

 /@nodelib/fs.scandir/2.1.5:
   resolution: {integrity: sha512-
vq24Bq3ym5HEQm2NKCr3yXDwjc7vTsEThRDnkp2DK9p1uqLR+DHurm/NOTo0KG7HYHU7eppKZj3MyqYu
MBf62g==}
    engines: {node: '>= 8'}
   dependencies:
     '@nodelib/fs.stat': 2.0.5
     run-parallel: 1.2.0
   dev: true

 /@nodelib/fs.stat/2.0.5:
   resolution: {integrity: sha512-
RkhPPp2zrqDAQA/2jNhnztcPAlv64XdhIp7a7454A5ovI7Bukxgt7MX7udwAu3zg1DcpPU0rz3VV1SeaqvY4+A==
}
   engines: {node: '>= 8'}
   dev: true

 /@nodelib/fs.walk/1.2.8:
   resolution: {integrity: sha512-
```

oGB+UxlgWcgQkgwo8GcEGwemoTFt3FIO9ababBmaGwXIoBKZ+GTy0pP185beGg7Llih/NSHSV2XAs1lznocSg==}
  engines: {node: '>= 8'}
  dependencies:
    '@nodelib/fs.scandir': 2.1.5
    fastq: 1.13.0
  dev: true

/@rollup/pluginutils/4.1.2:
  resolution: {integrity: sha512-ROn4qvkxP9SyPeHaf7uQC/GPFY6L/OWy9+bd9AwcjOAWQwxRscoEyAUD8qCY5o5iL4jqQwoLk2kaTKJPb/HwzQ==}
  engines: {node: '>= 8.0.0'}
  dependencies:
    estree-walker: 2.0.2
    picomatch: 2.3.1
  dev: true

/@sindresorhus/is/0.14.0:
  resolution: {integrity: sha512-9NET910DNaIPngYnLLPeg+Ogzqsi9uM4mSboU5y6p8S5DzMTVEsJZrawi+BoDNUVBa2DhJqQYUFvMDfgU062LQ==}
  engines: {node: '>=6'}
  dev: true

/@sindresorhus/is/0.7.0:
  resolution: {integrity: sha512-ONhaKPIufzzrlNbqtWFFd+jlnemX6lJAgq9ZeiZtS7I1PIf/la7CW4m83rTXRnVnsMbW2k56pGYu7AUFJD9Pow==}
  engines: {node: '>=4'}
  dev: true

/@sindresorhus/is/4.4.0:
  resolution: {integrity: sha512-QppPM/8l3Mawvh4rn9CNEYIU9bxpXUCRMaX9yUpvBk1nMKusLKpfXGDEKExKaPhLzcn3lzil7pR6rnJ11HgeRQ==}
  engines: {node: '>=10'}
  dev: true

/@sveltejs/vite-plugin-svelte/1.0.0-next.36_svelte@3.46.3+vite@2.7.13:
  resolution: {integrity: sha512-X7lTiioTGC3ri5M299fxc2dimuKU7f22zTXcmD+NrF+fO9/b7YNfLeQQwWV7Tvv9REysMlR4G2HQF6+lY62p/Q==}
  engines: {node: ^14.13.1 || >= 16}
  peerDependencies:
    diff-match-patch: ^1.0.5
    svelte: ^3.44.0
    vite: ^2.7.0

peerDependenciesMeta:
diff-match-patch:
optional: true
dependencies:
'@rollup/pluginutils': 4.1.2
debug: 4.3.3
kleur: 4.1.4
magic-string: 0.25.7
svelte: 3.46.3
svelte-hmr: 0.14.9_svelte@3.46.3
vite: 2.7.13
transitivePeerDependencies:
- supports-color
dev: true

/@szmarczak/http-timer/1.1.2:
resolution: {integrity: sha512-XIB2XbzHTN6ieIjfIMV9hlVcfPU26s2vafYWQcZHWXHOxiaRZYEDKEwdl129Zyg50+foYV2jCgtrqSA6qNuNSA==}
engines: {node: '>=6'}
dependencies:
defer-to-connect: 1.1.3
dev: true

/@szmarczak/http-timer/4.0.6:
resolution: {integrity: sha512-4BAffykYOgO+5nzBWYwE3W90sBgLJoUPRWWcL8wlyiM8IB8ipJz3UMJ9KXQd1RKQXpKp8Tutn80HZtWsu2u76w==}
engines: {node: '>=10'}
dependencies:
defer-to-connect: 2.0.1
dev: true

/@tauri-apps/api/1.0.0-beta.8:
resolution: {integrity: sha512-a56lXB7XvQ4+fKtT0pxpkjTSKhyrQ1Vmjyvt2ox3mT9xw3l7s8IOKHJ1WuqW6TA6xdoy3Cyja3Z3prw8hflS7g==}
engines: {node: '>= 12.13.0', npm: '>= 6.6.0', yarn: '>= 1.19.1'}
dev: false

/@tauri-apps/cli/1.0.0-beta.10:
resolution: {integrity: sha512-T0cvV5Y5vCeEw6tQ7DfuGhXxxe26AwW9i3oYT/AQZlwrLG9Xk02Pp0/lKqd/WeddE3X/IFfSm8YMRCz3VElIWQ==}
engines: {node: '>= 12.20.0', npm: '>= 6.6.0', yarn: '>= 1.19.1'}
hasBin: true
dependencies:
'@tauri-apps/toml': 2.2.4

chalk: 4.1.2
cross-env: 7.0.3
cross-spawn: 7.0.3
fs-extra: 10.0.0
global-agent: 3.0.0
got: 11.8.2
imagemin: 8.0.1
imagemin-optipng: 8.0.0
imagemin-zopfli: 7.0.0
inquirer: 8.1.2
is-png: 3.0.0
minimist: 1.2.5
ms: 2.1.3
png2icons: 2.0.1
read-chunk: 3.2.0
semver: 7.3.5
sharp: 0.28.3
update-notifier: 5.1.0
dev: true

/@tauri-apps/toml/2.2.4:
resolution: {integrity: sha512-NJV/pdgJObDlDWi5+MTHZ2qyNvdL0dlHqQ72nzQYXWbW1LHMPXgCJYl0pLqL1XxxLtxtInYbtVCGVAcwhGxdkw==}
dev: true

/@tokenizer/token/0.3.0:
resolution: {integrity: sha512-OvjF+z51L3ov0OyAU0duzsYuvO01PH7x4t6DJx+guahgTnBHkhJdG7soQeTSFLWN3efnHyibZ4Z8l2EuWwJN3A==}
dev: true

/@tsconfig/svelte/2.0.1:
resolution: {integrity: sha512-aqkICXbM1oX5FfgZd2qSSAGdyo/NRxjWCamxoyi3T8iVQnzGge19HhDYzZ6NrVOW7bhcWNSq9XexWFtMzbB24A==}
dev: true

/@types/cacheable-request/6.0.2:
resolution: {integrity: sha512-B3xVo+dlKM6nnKTcmm5ZtY/OL8bOAOd2Olee9M1zft65ox50OzjEHW91sDiU9j6cvW8Ejg1/Qkf4xd2kugApUA==}
dependencies:
'@types/http-cache-semantics': 4.0.1
'@types/keyv': 3.1.3
'@types/node': 12.20.42
'@types/responselike': 1.0.0
dev: true

/@types/crypto-js/4.1.0:
resolution: {integrity: sha512-DCFfy/vh2lG6qHSGezQ+Sn2Ulf/1Mx51dqOdmOKyW5nMK3maLlxeS3onC7r212OnBM2pBR95HkAmAjjF08YkxQ==}
dev: true

/@types/http-cache-semantics/4.0.1:
resolution: {integrity: sha512-SZs7ekbP8CN0txVG2xVRH6EgKmEm31BOxA07vkFaETzZz1xh+cbt8BcI0slpymvwhx5dlFnQG2rTlPVQn+iRPQ==}
dev: true

/@types/keyv/3.1.3:
resolution: {integrity: sha512-FXCJgyyN3ivVgRoml4h94G/p3kY+u/B86La+QptcqJaWtBWtmc6TtkNfS40n9bIvyLteHh7zXOtgbobORKPbDg==}
dependencies:

'@types/node': 12.20.42
dev: true

/@types/node/12.20.42:
resolution: {integrity: sha512-aI3/oo5DzyiI5R/xAhxxRzfZlWlsbbqdgxfTPkqu/Zt+23GXiJvMCyPJT4+xKSXOnLqoL8jJYMLTwvK2M3a5hw==}

/@types/pug/2.0.6:
resolution: {integrity: sha512-SnHmG9wN1UVmagJOnyo/qkk0Z7gejYxOYYmaAwr5u2yFYfsupN3sg10kyzN8Hep/2zbHxCnsumxOoRIRMBwKCg==}
dev: true

/@types/responselike/1.0.0:
resolution: {integrity: sha512-85Y2BjiufFzaMIlvJDvTTB8Fxl2xfLo4HgmHzVBz08w4wDePCTjYw66PdrolO0kzli3yam/YCgRufyo1DdQVTA==}
dependencies:
'@types/node': 12.20.42
dev: true

/@types/sass/1.43.1:
resolution: {integrity: sha512-BPdoIt1lfJ6B7rw35ncdwBZrAssjcwzI5LByIrYs+tpXlj/CAkuVdRsgZDdP4lq5EjyWzwxZCqAoFyHKFwp32g==}
dependencies:
'@types/node': 12.20.42
dev: true

/ansi-align/3.0.1:
  resolution: {integrity: sha512-IOfwwBF5iczOjp/WeY4YxyjqAFMQoZufdQWDd19SEExbVLNXqvpzSJ/M7Za4/sCPmQ0+GRquoA7bGcINcxew6w==}
  dependencies:
    string-width: 4.2.3
  dev: true

/ansi-escapes/4.3.2:
  resolution: {integrity: sha512-gKXj5ALrKWQLsYG9jlTRmR/xKluxHV+Z9QEwNIgCfM1/uwPMCuzVVnh5mwTd+OuBZcwSIMbqssNWRm1lE51QaQ==}
  engines: {node: '>=8'}
  dependencies:
    type-fest: 0.21.3
  dev: true

/ansi-regex/2.1.1:
  resolution: {integrity: sha1-w7M6te42DYbg5ijwRorn7yfWVN8=}
  engines: {node: '>=0.10.0'}
  dev: true

/ansi-regex/5.0.1:
  resolution: {integrity: sha512-quJQXlTSUGL2LH9SUXo8VwsY4soanhgo6LNSm84E1LBcE8s3O0wpdiRzyR9z/ZZJMlMWv37qOOb9pdJlMUEKFQ==}
  engines: {node: '>=8'}
  dev: true

/ansi-styles/2.2.1:
  resolution: {integrity: sha1-tDLdM1i2NM914eRmQ2gkBTPB3b4=}
  engines: {node: '>=0.10.0'}
  dev: true

/ansi-styles/4.3.0:
  resolution: {integrity: sha512-zbB9rCJAT1rbjiVDb2hqKFHNYLxgtk8NURxZ3IZwD3F6NtxbXZQCnnSi1Lkx+IDohdPlFp222wVALIheZJQSEg==}
  engines: {node: '>=8'}
  dependencies:
    color-convert: 2.0.1
  dev: true

/anymatch/3.1.2:
  resolution: {integrity: sha512-P43ePfOAIupkguHUycrc4qJ9kz8ZiuOUijaETwX7THt0Y/GNK7v0aa8rY816xWjZ7rJdA5XdMcpVFTKMq+RvWg==}

engines: {node: '>= 8'}
dependencies:
normalize-path: 3.0.0
picomatch: 2.3.1
dev: true

/aproba/1.2.0:
resolution: {integrity: sha512-Y9J6ZjXtoYh8RnXVCMOU/ttDmk1aBjunq9vO0ta5x85WDQiQfUF9sIPBITdbiiIVcBo03Hi3jMxigBtsddlXRw==}
dev: true

/arch/2.2.0:
resolution: {integrity: sha512-Of/R0wqp83cgHozfIYLbBMnej79U/SVGOOyuB3VVFv1NRM/PSFMK12x9KVtiYzJqmnU5WR2qp0Z5rHb7sWGnFQ==}
dev: true

/archive-type/4.0.0:
resolution: {integrity: sha1-+S5yIzBW38aWlHJ0nCZ72wRrHXA=}
engines: {node: '>=4'}
dependencies:
file-type: 4.4.0
dev: true

/are-we-there-yet/1.1.7:
resolution: {integrity: sha512-nxwy40TuMiUGqMyRHgCSWZ9FM4VAoRP4xUYSTv5ImRog+h9yISPbVH7H8fASCIzYn9wlEv4zvFL7uKDMCFQm3g==}
dependencies:
delegates: 1.0.0
readable-stream: 2.3.7
dev: true

/array-find-index/1.0.2:
resolution: {integrity: sha1-3wEKoSh+Fku9pvlyOwqWoexBh6E=}
engines: {node: '>=0.10.0'}

dev: true

/array-union/3.0.1:
resolution: {integrity: sha512-1OvF9IbWwaeiM9VhzYXVQacMibxpXOMYVNIvMtKRyX9SImBXpKcFr8XvFDeEslCyuH/t6KRt7HEO94AlP8Iatw==}
engines: {node: '>=12'}
dev: true

/axios/0.24.0:

resolution: {integrity: sha512-
Q6cWsys88HoPgAaFAVUb0WpPk0O8iTeisR9IMqy9G8AbO4NlpVknrnQS03zzF9PGAWgO3cgletO3VjV/P7VztA==}
dependencies:
follow-redirects: 1.14.7
transitivePeerDependencies:
- debug
dev: false

/balanced-match/1.0.2:
resolution: {integrity: sha512-
3oSeUO0TMV67hN1AmbXsK4yaqU7tjiHlbxRDZOpH0KW9+CeX4bRAaX0Anxt0tx2MrpRpWwQaPwIlISEJhYU5Pw==}
dev: true

/base64-js/1.5.1:
resolution: {integrity: sha512-
AKpaYlHn8t4SVbOHCy+b5+KKgvR4vrsD8vbvrbiQJps7fKDTkjkDry6ji0rUJjC0kzbNePLwzxq8iypo41qeWA==}
dev: true

/bin-build/3.0.0:
resolution: {integrity: sha512-
jcUOof71/TNAI2uM5uoUaDq2ePcVBQ3R/qhxAz1rX7UfvduAL/RXD3jXzvn8cVcDJdGVkiR1shal3OH0ImpuhA==}
engines: {node: '>=4'}
dependencies:
decompress: 4.2.1

download: 6.2.5
execa: 0.7.0
p-map-series: 1.0.0
tempfile: 2.0.0
dev: true

/bin-check/4.1.0:
resolution: {integrity: sha512-
b6weQyEUKsDGFlACWSIOfveEnImkJyK/FGW6FAG42loyoquvjdtOIqO6yBFzHyqyVVhNgNkQxxx09SFLK28YnA==}
engines: {node: '>=4'}
dependencies:
execa: 0.7.0
executable: 4.1.1
dev: true

/bin-version-check/4.0.0:
resolution: {integrity: sha512-
sR631OrhC+1f8Cvs8WyVWOA33Y8tgwjETNPyyD/myRBXLkfS/vl74FmH/lFcRl9KY3zwGh7jFhvyk9vV3/3ilQ==}

engines: {node: '>=6'}
dependencies:
bin-version: 3.1.0
semver: 5.7.1
semver-truncate: 1.1.2
dev: true

/bin-version/3.1.0:
resolution: {integrity: sha512-Mkfm4iE1VFt4xd4vH+gx+0/71esbfus2LsnCGe8Pi4mndSPyT+NGES/Eg99jx8/lUGWfu3z2yuB/bt5UB+iVbQ==}
engines: {node: '>=6'}
dependencies:
execa: 1.0.0
find-versions: 3.2.0
dev: true

/bin-wrapper/4.1.0:
resolution: {integrity: sha512-hfRmo7hWIXPkbpi0ZltboCMVrU+0ClXR/JgbCKKjlDjQf6igXa7OwdqNcFWQZPZTgiY7ZpzE3+LjjkLiTN2T7Q==}
engines: {node: '>=6'}
dependencies:
bin-check: 4.1.0
bin-version-check: 4.0.0
download: 7.1.0
import-lazy: 3.1.0
os-filter-obj: 2.0.0
pify: 4.0.1
dev: true

/binary-extensions/2.2.0:
resolution: {integrity: sha512-jDctJ/IVQbZoJykoeHbhXpOlNBqGNcwXJKJog42E5HDPUwQTSdjCHdihjj0DlnheQ7blbT6dHOafNAiS8ooQKA==}
engines: {node: '>=8'}
dev: true

/bl/1.2.3:
resolution: {integrity: sha512-pvcNpa0UU69UT341rO6AYy4FVAIkUHuZXRIWbq+zHnsVcRzDDjIAhGuuYoi0d//cwIwtt4pkpKycWEfjdV+vww==}
dependencies:
readable-stream: 2.3.7
safe-buffer: 5.2.1
dev: true

/bl/4.1.0:
resolution: {integrity: sha512-

1W07cM9gS6DcLperZfFSj+bWLtaPGSOHWhPiGzXmvVJbRLdG82sH/Kn8EtW1VqWVA54AKf2h5k5BbnIbwF3h6w==}
  dependencies:
    buffer: 5.7.1
    inherits: 2.0.4
    readable-stream: 3.6.0
  dev: true

/boolean/3.1.4:
  resolution: {integrity: sha512-3hx0kwU3uzG6ReQ3pnaFQPSktpBw6RHN3/ivDKEuU8g1XSfafowyvDnadjv1xp8IZqhtSukxlwv9bF6FhX8m0w==}
   dev: true

/boxen/5.1.2:
  resolution: {integrity: sha512-9gYgQKXx+1nP8mP7CzFyaUARhg7D3n1dF/FnErWmu9l6JvGpNUN278h0aSb+QjoiKSWG+iZ3uHrcqk0qrY9RQQ==}
  engines: {node: '>=10'}
  dependencies:
    ansi-align: 3.0.1
    camelcase: 6.3.0
    chalk: 4.1.2
    cli-boxes: 2.2.1
    string-width: 4.2.3
    type-fest: 0.20.2
    widest-line: 3.1.0
    wrap-ansi: 7.0.0
  dev: true

/brace-expansion/1.1.11:
  resolution: {integrity: sha512-iCuPHDFgrHX7H2vEI/5xpz07zSHB00TpugqhmYtVmMO6518mCuRMoOYFldEBl0g187ufozdaHgWKcYFb61qGiA==}
  dependencies:
    balanced-match: 1.0.2
    concat-map: 0.0.1
  dev: true

/braces/3.0.2:
  resolution: {integrity: sha512-b8um+L1RzM3WDSzvhm6gIz1yfTbBt6YTlcEKAvsmqCZZFw46z626lVj9j1yEPW33H5H+lBQpZMP1k8l+78Ha0A==}
  engines: {node: '>=8'}
  dependencies:
    fill-range: 7.0.1
  dev: true

/buffer-alloc-unsafe/1.1.0:
  resolution: {integrity: sha512-TEM2iMIEQdJ2yjPJoSIsldnleVaAk1oW3DBVUykyOLsEsFmEc9kn+SFFPz+gl54KQNxlDnAwCXosOS9Okx2xAg==}
  dev: true

/buffer-alloc/1.2.0:
  resolution: {integrity: sha512-CFsHQgjtW1UChdXgbyJGtnm+O/uLQeZdtbDo8mfUgYXCHSM1wgrVxXm6bSyrUuErEb+4sYVGCzASBRot7zyrow==}
  dependencies:
    buffer-alloc-unsafe: 1.1.0
    buffer-fill: 1.0.0
  dev: true

/buffer-crc32/0.2.13:
  resolution: {integrity: sha1-DTM+PwDqxQqhRUq9MO+MKl2ackI=}
  dev: true

/buffer-fill/1.0.0:
  resolution: {integrity: sha1-+PeLdniYiO858gXNY39o5wISKyw=}
  dev: true

/buffer/5.7.1:
  resolution: {integrity: sha512-EHcyIPBQ4BSGlvjB16k5KgAJ27CIsHY/2JBmCRReo48y9rQ3MaUzWX3KVlBa4U7MyX02HdVj0K7C3WaB3ju7FQ==}
  dependencies:
    base64-js: 1.5.1
    ieee754: 1.2.1
  dev: true

/cacheable-lookup/5.0.4:
  resolution: {integrity: sha512-2/kNscPhpcxrOigMZzbiWF7dz8ilhb/nIHU3EyZiXWXpeq/au8qJ8VhdftMkty3n7Gj6HIGalQG8oiBNB3AJgA==}
  engines: {node: '>=10.6.0'}
  dev: true

/cacheable-request/2.1.4:
  resolution: {integrity: sha1-DYCIAbY0KtM8kd+dC0TcCbkeXD0=}
  dependencies:
    clone-response: 1.0.2
    get-stream: 3.0.0
    http-cache-semantics: 3.8.1
    keyv: 3.0.0
    lowercase-keys: 1.0.0
    normalize-url: 2.0.1
    responselike: 1.0.2

dev: true

/cacheable-request/6.1.0:
resolution: {integrity: sha512-Oj3cAGPCqOZX7Rz64Uny2GYAZNliQSqfbePrgAQ1wKAihYmCUnraBtJtKcGR4xz7wF+LoJC+ssFZvv5BgF9Ig==}
engines: {node: '>=8'}
dependencies:
clone-response: 1.0.2
get-stream: 5.2.0
http-cache-semantics: 4.1.0
keyv: 3.1.0
lowercase-keys: 2.0.0
normalize-url: 4.5.1
responselike: 1.0.2
dev: true

/cacheable-request/7.0.2:
resolution: {integrity: sha512-pouW8/FmiPQbuGpkXQ9BAPv/Mo5xDGANgSNXzTzJ8DrKGuXOssM4wIQRjfanNRh3Yu5cfYPvcorqbhg2KIJtew==}
engines: {node: '>=8'}
dependencies:
clone-response: 1.0.2
get-stream: 5.2.0
http-cache-semantics: 4.1.0
keyv: 4.0.5
lowercase-keys: 2.0.0
normalize-url: 6.1.0
responselike: 2.0.0
dev: true

/callsites/3.1.0:
resolution: {integrity: sha512-P8BjAsXvZS+VIDUI11hHCQEv74YT67YUi5JJFNWIqL235sBmjX4+qx9Muvls5ivyNENctx46xQLQ3aTuE7ssaQ==}
engines: {node: '>=6'}
dev: true

/camelcase-keys/2.1.0:
resolution: {integrity: sha1-MIvur/3ygRkFHvodkyITyRuPkuc=}
engines: {node: '>=0.10.0'}
dependencies:
camelcase: 2.1.1
map-obj: 1.0.1
dev: true

/camelcase/2.1.1:

resolution: {integrity: sha1-fB0W1nmhu+WcoCys7PsBHiAfWh8=}
engines: {node: '>=0.10.0'}
dev: true

/camelcase/6.3.0:
resolution: {integrity: sha512-Gmy6FhYlCY7uOElZUSbxo2UCDH8owEk996gkbrpsgGtrJLM3J7jGxl9Ic7Qwwj4ivOE5AWZWRMecDdF7hqGjFA==}
engines: {node: '>=10'}
dev: true

/caw/2.0.1:
resolution: {integrity: sha512-Cg8/ZSBEa8ZVY9HspcGUYaK63d/bN7rqS3CYCzEGUxuYv6UlmcjzDUz2fCFFHyTvUW5Pk0I+3hkA3iXlIj6guA==}
engines: {node: '>=4'}
dependencies:
get-proxy: 2.1.0
isurl: 1.0.0
tunnel-agent: 0.6.0
url-to-options: 1.0.1
dev: true

/chalk/1.1.3:
resolution: {integrity: sha1-qBFcVeSnAv5NFQq9OHKCKn4J/Jg=}
engines: {node: '>=0.10.0'}
dependencies:
ansi-styles: 2.2.1
escape-string-regexp: 1.0.5
has-ansi: 2.0.0
strip-ansi: 3.0.1
supports-color: 2.0.0
dev: true

/chalk/4.1.2:
resolution: {integrity: sha512-oKnbhFyRIXpUuez8iBMmyEa4nbj4IOQyuhc/wy9kY7/WVPcwIO9VA668Pu8RkO7+0G76SLROeyw9CpQ061i4mA==}
engines: {node: '>=10'}
dependencies:
ansi-styles: 4.3.0
supports-color: 7.2.0
dev: true

/chardet/0.7.0:
resolution: {integrity: sha512-mT8iDcrh03qDGRRmoA2hmBJnxpllMR+0/0qlzjqZES6NdiWDcZkCNAk4rPFZ9Q85r27unkiNNg8ZOiwZXBHwcA==}

dev: true

/chokidar/3.5.3:
resolution: {integrity: sha512-Dr3sfKRP6oTcjf2JmUmFJfeVMvXBdegxB0iVQ5eb2V10uFJUCAS8OByZdVAyVb8xXNz3GjjTgj9kLWsZTqE6kw==}
engines: {node: '>= 8.10.0'}
dependencies:
anymatch: 3.1.2
braces: 3.0.2
glob-parent: 5.1.2

is-binary-path: 2.1.0
is-glob: 4.0.3
normalize-path: 3.0.0
readdirp: 3.6.0
optionalDependencies:
fsevents: 2.3.2
dev: true

/chownr/1.1.4:
resolution: {integrity: sha512-jJ0bqzaylmJtVnNgzTeSOs8DPavpbYgEr/b0YL8/2GO3xJEhInFmhKMUnEJQjZumK7KXGFhUy89PrsJWlakBVg==}
dev: true

/ci-info/2.0.0:
resolution: {integrity: sha512-5tK7EtrZ0N+OLFMthtqOj4fI2Jeb88C4CAZPu25LDVUgXJ0A3Js4PMGqrn0JU1W0Mh1/Z8wZzYPxqUrXeBboCQ==}
dev: true

/cli-boxes/2.2.1:
resolution: {integrity: sha512-y4coMcylgSCdVinjiDBuR8PCC2bLjyGTwEmPb9NHR/QaNU6EUOXcTY/s6VjGMD6ENSEaeQYHCY0GNGS5jfMwPw==}
engines: {node: '>=6'}
dev: true

/cli-cursor/3.1.0:
resolution: {integrity: sha512-I/zHAwsKf9FqGoXM4WWRACob9+SNukZTd94DWF57E4toouRulbCxcUh6RKUEOQlYTHJnzkPMySvPNaaSLNfLZw==}
engines: {node: '>=8'}
dependencies:
restore-cursor: 3.1.0
dev: true

/cli-spinners/2.6.1:
  resolution: {integrity: sha512-
x/5fWmGMnbKQAaNwN+UZlV79qBLM9JFnJuJ03gIi5whrob0xV0ofNVHy9DhwGdsMJQc2OKv0oGmLzvaqvA
Vv+g==}
   engines: {node: '>=6'}
  dev: true

/cli-width/3.0.0:
  resolution: {integrity: sha512-
FxqpkPPwu1HjuN93Omfm4h8uIanXofW0RxVEW3k5RKx+mJJYSthzNhp32Kzxxy3YAEZ/Dc/EWN1vZRY0+kO
hbw==}
  engines: {node: '>= 10'}
  dev: true

/clone-response/1.0.2:
  resolution: {integrity: sha1-0dyXOSAxTfZ/vrlCI7TuNQI56Ws=}
  dependencies:
    mimic-response: 1.0.1
  dev: true

/clone/1.0.4:
  resolution: {integrity: sha1-2jCcwmPfFZlMaIypAheco8fNfH4=}
  engines: {node: '>=0.8'}
  dev: true

/code-point-at/1.1.0:
  resolution: {integrity: sha1-DQcLTQQ6W+ozovGkDi7bPZpMz3c=}
  engines: {node: '>=0.10.0'}
  dev: true

/color-convert/1.9.3:
  resolution: {integrity: sha512-
QfAUtd+vFdAtFQcC8CCyYt1fYWxSqAiK2cSD6zDB8N3cpsEBAvRxp9zOGg6G/SHHJYAT88/az/IuDGALsNV
bGg==}
  dependencies:
    color-name: 1.1.3
  dev: true

/color-convert/2.0.1:
  resolution: {integrity: sha512-
RRECPsj7iu/xb5oKYcsFHSppFNnsj/52OVTRKb4zP5onXwVF3zVmmToNcOfGC+CRDpfK/U584fMg38ZHCaEl
KQ==}
   engines: {node: '>=7.0.0'}
  dependencies:
    color-name: 1.1.4
  dev: true

/color-name/1.1.3:

resolution: {integrity: sha1-p9BVi9icQveV3UIyj3QIMcpTvCU=}
dev: true

/color-name/1.1.4:
resolution: {integrity: sha512-dOy+3AuW3a2wNbZHIuMZpTcgjGuLU/uBL/ubcZF9OXbDo8ff4O8yVp5Bf0efS8uEoYo5q4Fx7dY9OgQGXgAsQA==}
dev: true

/color-string/1.9.0:
resolution: {integrity: sha512-9Mrz2AQLefkH1UvASKj6v6hj/7eWgjnT/cVsR8CumieLoT+g900exWeNogqtweI8dxloXN9BDQTYro1oWu/5CQ==}
dependencies:
color-name: 1.1.4
simple-swizzle: 0.2.2
dev: true

/color/3.2.1:
resolution: {integrity: sha512-aBl7dZI9ENN6fUGC7mWpMTPNHmWUSNan9tuWN6ahh5ZLNk9baLJOnSMlrQkHcrfFgz2/RigjUVAjdx36VcemKA==}
dependencies:
color-convert: 1.9.3
color-string: 1.9.0
dev: true

/commander/2.20.3:
resolution: {integrity: sha512-GpVkmM8vF2vQUkj2LvZmD35JxeJOLCwJ9cUkugyk2nuhbv3+mJvpLYYt+0+USMxE+oj+ey/lJEnhZw75x/OMcQ==}
dev: true

/concat-map/0.0.1:
resolution: {integrity: sha1-2Klr13/Wjfd5OnMDajug1UBdR3s=}
dev: true

/config-chain/1.1.13:
resolution: {integrity: sha512-qj+f8APARXHrM0hraqXYb2/bOVSV4PvJQlNZ/DVj0QrmNM2q2euizkeuVckQ57J+W0mRH6Hvi+k50M4Jul2VRQ==}
dependencies:
ini: 1.3.8
proto-list: 1.2.4
dev: true

/configstore/5.0.1:
resolution: {integrity: sha512-

aMKprgk5YhBNyH25hj8wGt2+D52Sw1DRRIzqBwLp2Ya9mFmY8KPvvtvmna8SxVR9JMZ4kzMD68N22vlaRpkeFA==}
  engines: {node: '>=8'}
  dependencies:
    dot-prop: 5.3.0
    graceful-fs: 4.2.9
    make-dir: 3.1.0
    unique-string: 2.0.0
    write-file-atomic: 3.0.3
    xdg-basedir: 4.0.0
  dev: true

/console-control-strings/1.1.0:
  resolution: {integrity: sha1-PXz0Rk22RG6mRL9LOVB/mFEAjo4=}
  dev: true

/console-stream/0.1.1:
  resolution: {integrity: sha1-oJX+B7IEZZVfL6/Si11yvM2UnUQ=}
  dev: true

/content-disposition/0.5.4:
  resolution: {integrity: sha512-FveZTNuGw04cxlAiWbzi6zTAL/lhehaWbTtgluJh4/E95DqMwTmha3KZN1aAWA8cFIhHzMZUvLevkw5Rqk+tSQ==}
  engines: {node: '>= 0.6'}
  dependencies:
    safe-buffer: 5.2.1
  dev: true

/core-util-is/1.0.3:
  resolution: {integrity: sha512-ZQBvi1DcpJ4GDqanjucZ2Hj3wEO5pZDS89BWbkcrvdxksJorwUDDZamX9ldFkp9aw2lmBDLgkObEA4DWNJ9FYQ==}
  dev: true

/cross-env/7.0.3:
  resolution: {integrity: sha512-+/HKd6EgcQCJGh2PSjZuUitQBQynKor4wrFbRg4DtAgS1aWO+gU52xpH7M9ScGgXSYmAVS9bIJ8EzuaGw0oNAw==}
  engines: {node: '>=10.14', npm: '>=6', yarn: '>=1'}
  hasBin: true
  dependencies:
    cross-spawn: 7.0.3
  dev: true

/cross-spawn/5.1.0:
  resolution: {integrity: sha1-6L0O/uWPz/b4+UUQoKVUu/ojVEk=}
  dependencies:

lru-cache: 4.1.5
shebang-command: 1.2.0
which: 1.3.1
dev: true

/cross-spawn/6.0.5:
resolution: {integrity: sha512-
eTVLrBSt7fjbDygz805pMnstIs2VTBNkRm0qxZd+M7A5XDdxVRWO5MxGBXZhjY4cqLYLdtrGqRf8mBPmzw
SpWQ==}
engines: {node: '>=4.8'}
dependencies:
nice-try: 1.0.5
path-key:
2.0.1
semver: 5.7.1
shebang-command: 1.2.0
which: 1.3.1
dev: true

/cross-spawn/7.0.3:
resolution: {integrity: sha512-
iRDPJKUPVEND7dHPO8rkbOnPpyDygcDFtWjpeWNCgy8WP2rXcxXL8TskReQl6OrB2G7+UJrags1q15Fudc7G
6w==}
engines: {node: '>= 8'}
dependencies:
path-key: 3.1.1
shebang-command: 2.0.0
which: 2.0.2
dev: true

/crypto-js/4.1.1:
resolution: {integrity: sha512-
o2JlM7ydqd3Qk9CA0L4NL6mTzU2sdx96a+oOfPu8Mkl/PK51vSyoi8/rQ8NknZtk44vq15lmhAj9CIAGwgeWKw=
=}
dev: false

/crypto-random-string/2.0.0:
resolution: {integrity: sha512-
v1plID3y9r/lPhviJ1wrXpLeyUIGAZ2SHNYTEapm7/8A9nLPoyvVp3RK/EPFqn5kEznyWgYZNsRtYYIWbuG8K
A==}
engines: {node: '>=8'}
dev: true

/currently-unhandled/0.4.1:
resolution: {integrity: sha1-mI3zP+qxke95mmE2nddsF635V+o=}
engines: {node: '>=0.10.0'}
dependencies:
array-find-index: 1.0.2

dev: true

/debug/4.3.3:
resolution: {integrity: sha512-
/zxw5+vh1Tfv+4Qn7a5nsbcJKPaSvCDhojn6FEl9vupwK2VCSDtEiEtqr8DFtzYFOdz63LBkxec7DYuc2jon6Q==}
engines: {node: '>=6.0'}
peerDependencies:
supports-color: '*'
peerDependenciesMeta:
supports-color:
optional: true
dependencies:
ms: 2.1.2
dev: true

/decamelize/1.2.0:
resolution: {integrity: sha1-9lNNFRSCabIDUue+4m9QH5oZEpA=}
engines: {node: '>=0.10.0'}
dev: true

/decode-uri-component/0.2.0:
resolution: {integrity: sha1-6zkTMzRYd1y4TNGh+uBiEGu4dUU=}
engines: {node: '>=0.10'}
dev: true

/decompress-response/3.3.0:
resolution: {integrity: sha1-gKTdMjdIOEv6JICDYirt7Jgq3/M=}
engines: {node: '>=4'}
dependencies:
mimic-response: 1.0.1
dev: true

/decompress-response/4.2.1:
resolution: {integrity: sha512-
jOSne2qbyE+/r8G1VU+G/82LBs2Fs4LAsTiLSHOCOMZQl2OKZ6i8i4IyHemTe+/yIXOtTcRQMzPcgyhoFlqPkw
==}
engines: {node: '>=8'}
dependencies:
mimic-response: 2.1.0
dev: true

/decompress-response/6.0.0:
resolution: {integrity:
sha512-
aW35yZM6Bb/4oJlZncMH2LCoZtJXTRxES17vE3hoRiowU2kWHaJKFkSBDnDR+cm9J+9QhXmREyIfv0pji9ej
CQ==}
engines: {node: '>=10'}
dependencies:

mimic-response: 3.1.0
dev: true

/decompress-tar/4.1.1:
resolution: {integrity: sha512-JdJMaCrGpB5fESVyxwpCx4Jdj2AagLmv3y58Qy4GE6HMVjWz1FeVQk1Ct4Kye7PftcdOo/7U7UKzYBJgqnGeUQ==}
engines: {node: '>=4'}
dependencies:
file-type: 5.2.0
is-stream: 1.1.0
tar-stream: 1.6.2
dev: true

/decompress-tarbz2/4.1.1:
resolution: {integrity: sha512-s88xLzf1r81ICXLAVQVzaN6ZmX4A6U4z2nMbOwobxkLoIIfjVMBg7TeguTUXkKeXni795B6y5rnvDw7rxhAq9A==}
engines: {node: '>=4'}
dependencies:
decompress-tar: 4.1.1
file-type: 6.2.0
is-stream: 1.1.0
seek-bzip: 1.0.6
unbzip2-stream: 1.4.3
dev: true

/decompress-targz/4.1.1:
resolution: {integrity: sha512-4z81Znfr6chWnRDNfFNqLwPvm4db3WuZkqV+UgXQzSngG3CEKdBkw5jrv3axjjL96glyiiKjsxJG3X6WBZwX3w==}
engines: {node: '>=4'}
dependencies:
decompress-tar: 4.1.1
file-type: 5.2.0
is-stream: 1.1.0
dev: true

/decompress-unzip/4.0.1:
resolution: {integrity: sha1-3qrM39FK6vhVePczroIQ+bSEj2k=}
engines: {node: '>=4'}
dependencies:
file-type: 3.9.0
get-stream: 2.3.1
pify: 2.3.0
yauzl: 2.10.0
dev: true

/decompress/4.2.1:
  resolution: {integrity: sha512-
e48kc2IjU+2Zw8cTb6VZcJQ3lgVbS4uuB1TfCHbiZIP/haNXm+SVyhu+87jts5/3ROpd82GSVCoNs/z8l4ZOaQ==}
  engines: {node: '>=4'}
  dependencies:
    decompress-tar: 4.1.1
    decompress-tarbz2: 4.1.1
    decompress-targz: 4.1.1
    decompress-unzip: 4.0.1
    graceful-fs: 4.2.9
    make-dir: 1.3.0
    pify: 2.3.0
    strip-dirs: 2.1.0
  dev: true

/deep-extend/0.6.0:
  resolution: {integrity: sha512-
LOHxIOaPYdHlJRtCQfDIVZtfw/ufM8+rVj649RIHzcm/vGwQRXFt6OPqIFWsm2XEMrNIEtWR64sY1LEKD2vAOA==}
  engines: {node: '>=4.0.0'}
  dev: true

/defaults/1.0.3:
  resolution: {integrity: sha1-xlYFHpgX2f8I7YgUd/P+QBnz730=}
   dependencies:
    clone: 1.0.4
  dev: true

/defer-to-connect/1.1.3:
  resolution: {integrity: sha512-
0ISdNousHvZT2EiFlZeZAHBUvSxmKswVCEf8hW7KWgG4a8MVEu/3Vb6uWYozkjylyCxe0JBIiRB1jV45S70WVQ==}
  dev: true

/defer-to-connect/2.0.1:
  resolution: {integrity: sha512-
4tvttepXG1VaYGrRibk5EwJd1t4udunSOVMdLSAL6mId1ix438oPwPZMALY41FCijukO1L0twNcGsdzS7dHgDg==}
  engines: {node: '>=10'}
  dev: true

/define-properties/1.1.3:
  resolution: {integrity: sha512-
3MqfYKj2lLzdMSf8ZIZE/V+Zuy+BgD6f164e8K2w7dgnpKArBDerGYpM46IYYcjnkdPNMjPk9A6VFB8+3SKlXQ==}
  engines: {node: '>= 0.4'}
  dependencies:
    object-keys: 1.1.1

dev: true

/delegates/1.0.0:
resolution: {integrity: sha1-hMbhWbgZBP3KWaDvRM2HDTElD5o=}
dev: true

/detect-indent/6.1.0:
resolution: {integrity: sha512-
reYkTUJAZb9gUuZ2RvVCNhVHdg62RHnJ7WJl8ftMi4diZ6NWlciOzQN88pUhSELEwflJht4oQDv0F0BMlwaYtA==}
engines: {node: '>=8'}
dev: true

/detect-libc/1.0.3:
resolution:
{integrity: sha1-+hN8S9aY7fVc1c0CrFWfkaTEups=}
engines: {node: '>=0.10'}
hasBin: true
dev: true

/detect-node/2.1.0:
resolution: {integrity: sha512-
T0NIuQpnTvFDATNuHN5roPwSBG83rFsuO+MXXH9/3N1eFbn4wcPjttvjMLEPWJ0RGUYgQE7cGgS3tNxbqCGM7g==}
dev: true

/dir-glob/3.0.1:
resolution: {integrity: sha512-
WkrWp9GR4KXfKGYzOLmTuGVi1UWFfws377n9cc55/tb6DuqyF6pcQ5AbiHEshaDpY9v6oaSr2XCDidGmMwdzIA==}
engines: {node: '>=8'}
dependencies:
path-type: 4.0.0
dev: true

/dot-prop/5.3.0:
resolution: {integrity: sha512-
QM8q3zDe58hqUqjraQOmzZ1LIH9SWQJTlEKCH4kJ2oQvLZk7RbQXvtDM2XEq3fwkV9CCvvH4LA0AV+ogFsBM2Q==}
engines: {node: '>=8'}
dependencies:
is-obj: 2.0.0
dev: true

/download/6.2.5:
resolution: {integrity: sha512-
DpO9K1sXAST8Cpzb7kmEhogJxymyVUd5qz/vCOSyvwtp2Klj2XcDt5YUuasgxka44SxF0q5RriKIwJmQHG2AuA==}

engines: {node: '>=4'}
dependencies:
caw: 2.0.1
content-disposition: 0.5.4
decompress: 4.2.1
ext-name:
5.0.0
file-type: 5.2.0
filenamify: 2.1.0
get-stream: 3.0.0
got: 7.1.0
make-dir: 1.3.0
p-event: 1.3.0
pify: 3.0.0
dev: true

/download/7.1.0:
resolution: {integrity: sha512-
xqnBTVd/E+GxJVrX5/eUJiLYjCGPwMpdL+jGhGU57BvtcA7wwhtHVbXBeUk51kOpW3S7Jn3BQbN9Q1R1Km
2qDQ==}
engines: {node: '>=6'}
dependencies:
archive-type: 4.0.0
caw: 2.0.1
content-disposition: 0.5.4
decompress: 4.2.1
ext-name: 5.0.0
file-type: 8.1.0
filenamify: 2.1.0
get-stream: 3.0.0
got: 8.3.2
make-dir: 1.3.0
p-event: 2.3.1
pify: 3.0.0
dev: true

/duplexer3/0.1.4:
resolution: {integrity: sha1-7gHdHKwO08vH/b6jfcCo8c4ALOI=}
dev: true

/emoji-regex/8.0.0:
resolution: {integrity: sha512-
MSjYzcWNOA0ewAHpz0MxpYFvwg6yjy1NG3xteoqz644VCo/RPgnr1/GGt+ic3iJTzQ8Eu3TdM14SawnVUmGE
6A==}
dev: true

/end-of-stream/1.4.4:
resolution: {integrity: sha512-

+uw1inIHVPQoaVuHzRyXd21icM+cnt4CzD5rW+NC1wjOUSTOs+Te7FOv7AhN7vS9x/oIyhLP5PR1H+phQAHu5Q==}
    dependencies:
     once: 1.4.0
   dev: true

 /error-ex/1.3.2:
   resolution: {integrity: sha512-7dFHNmqeFSEt2ZBsCriorKnn3Z2pj+fd9kmI6QoWw4//DL+icEBfc0U7qJCisqrTsKTjw4fNFy2pW9OqStD84g==}
   dependencies:
     is-arrayish: 0.2.1
   dev: true

 /es6-error/4.1.1:
   resolution: {integrity: sha512-Um/+FxMr9CISWh0bi5Zv0iOD+4cFh5qLeks1qhAopKVAJw3drgKbKySikp7wGhDL0HPeaja0P5ULZrxLkniUVg==}
   dev: true

 /es6-promise/3.3.1:
   resolution: {integrity: sha1-oIzd6EzNvzTQJ6FFG8kdS80ophM=}
   dev: true

 /esbuild-android-arm64/0.13.15:
   resolution: {integrity: sha512-m602nft/XXeO8YQPUDVoHfjyRVPdPgjyyXOxZ44MK/agewFFkPa8tUo6lAzSWh5Ui5PB4KR9UIFTSBKh/RrCmg==}
   cpu: [arm64]
   os: [android]
   requiresBuild: true
   dev: true
   optional: true

 /esbuild-darwin-64/0.13.15:
   resolution: {integrity: sha512-ihOQRGs2yyp7t5bArCwnvn2Atr6X4axqPpEdCFPVp7iUj4cVSdisgvEKdNR7yH3JDjW6aQDw40iQFoTqejqxvQ==}
   cpu: [x64]
   os: [darwin]
    requiresBuild: true
   dev: true
   optional: true

 /esbuild-darwin-arm64/0.13.15:
   resolution: {integrity: sha512-i1FZssTVxUqNlJ6cBTj5YQj4imWy3m49RZRnHhLpefFIh0To05ow9DTrXROTE1urGTQCloFUXTX8QfGJy1P8dQ==}
   cpu: [arm64]

os: [darwin]
requiresBuild: true
dev: true
optional: true

/esbuild-freebsd-64/0.13.15:
resolution: {integrity: sha512-
G3dLBXUI6lC6Z09/x+WtXBXbOYQZ0E8TDBqvn7aMaOCzryJs8LyVXKY4CPnHFXZAbSwkCbqiPuSQ1+Hhr
Nk7EA==}
cpu: [x64]
os: [freebsd]
requiresBuild: true
dev: true
optional: true

/esbuild-freebsd-arm64/0.13.15:
resolution: {integrity: sha512-
KJx0fzEDf1uhNOZQStV4ujg30WlnwqUASaGSFPhznLM/bbheu9HhqZ6mJJZM32lkyfGJikw0jg7v3S0oAvtvQQ=
=}
cpu: [arm64]
os: [freebsd]
requiresBuild: true
dev: true
optional: true

/esbuild-linux-32/0.13.15:
resolution: {integrity: sha512-
ZvTBPk0YWCLMCXiFmD5EUtB30zIPvC5Itxz0mdTu/xZBbbHJftQgLWY49wEPSn2T/TxahYCRDWun5smRa0
Tu+g==}
cpu: [ia32]
os: [linux]
requiresBuild: true
dev: true
optional: true

/esbuild-linux-64/0.13.15:
resolution: {integrity: sha512-
eCKzkNSLywNeQTRBxJRQ0jxRCl2YWdMB3+PkWFo2BBQYC5mISLIVIjThNtn6HUNqua1pnvgP5xX0nHbZb
Pj5oA==}
cpu: [x64]
os: [linux]
requiresBuild: true
dev: true
optional: true

/esbuild-linux-arm/0.13.15:
resolution: {integrity: sha512-
wUHttDi/ol0tD8ZgUMDH8Ef7IbDX+/UsWJOXaAyTdkT7Yy9ZBqPg8bgB/Dn3CZ9SBpNieozrPRHm0BGww7W

/jA==}
  cpu: [arm]
  os: [linux]
  requiresBuild: true
  dev: true
  optional: true

 /esbuild-linux-arm64/0.13.15:
  resolution: {integrity: sha512-
bYpuUlN6qYU9slzr/ltyLTR9YTBS7qUDymO8SV7kjeNext61OdmqFAzuVZom+OLW1HPHseBfJ/JfdSlx8oTUoA
==}
  cpu: [arm64]
  os: [linux]
  requiresBuild: true
  dev: true
  optional: true

 /esbuild-linux-mips64le/0.13.15:
  resolution: {integrity: sha512-
KlVjIG828uFPyJkO/8gKwy9RbXhCEUeFsCGOJBepUlpa7G8/SeZgncUEz/tOOUJTcWMTmFMtdd3GElGyAtbS
Wg==}
  cpu: [mips64el]
  os: [linux]
  requiresBuild:
 true
  dev: true
  optional: true

 /esbuild-linux-ppc64le/0.13.15:
  resolution: {integrity: sha512-
h6gYF+OsaqEuBjeesTBtUPw0bmiDu7eAeuc2OEH9S6mV9/jPhPdhOWzdeshb0BskRZxPhxPOjqZ+/OqLcxQwEQ
==}
  cpu: [ppc64]
  os: [linux]
  requiresBuild: true
  dev: true
  optional: true

 /esbuild-netbsd-64/0.13.15:
  resolution: {integrity: sha512-
3+yE9emwoevLMyvu+iR3rsa+Xwhie7ZEHMGDQ6dkqP/ndFzRHkobHUKTe+NCApSqG5ce2z4rFu+NX/UHnxlh
3w==}
  cpu: [x64]
  os: [netbsd]
  requiresBuild: true
  dev: true
  optional: true

/esbuild-openbsd-64/0.13.15:
resolution: {integrity: sha512-wTfvtwYJYAFL1fSs8yHIdf5GEE4NkbtbXtjLWjM3Cw8mmQKqsg8kTiqJ9NJQe5NX/5Qlo7Xd9r1yKMMkHllp5g==}
cpu: [x64]
os: [openbsd]
requiresBuild: true
dev: true
optional: true

/esbuild-sunos-64/0.13.15:
resolution: {integrity: sha512-lbivT9Bx3t1iWWrSnGyBP9ODriEvWDRiweAs69vI+miJoeKwHWOComSRukttbuzjZ8r1q0mQJ8Z7yUsDJ3hKdw==}
cpu: [x64]
os: [sunos]
requiresBuild: true
dev: true
optional: true

/esbuild-windows-32/0.13.15:
resolution: {integrity: sha512-fDMEf2g3SsJ599MBr50cY5ve5lP1wyVwTe6aLJsM01KtxyKkB4UT+fc5MXQFn3RLrAIAZOG+tHC+yXObpSn7Nw==}
cpu: [ia32]
os: [win32]
requiresBuild: true
dev: true
optional: true

/esbuild-windows-64/0.13.15:
resolution: {integrity: sha512-9aMsPRGDWCd3bGjUIKG/ZOJPKsiztlxl/Q3C1XDswO6eNX/Jtwu4M+jb6YDH9hRSUflQWX0XKAfWzgy5Wk54JQ==}
cpu: [x64]
os: [win32]
requiresBuild: true
dev: true
optional: true

/esbuild-windows-arm64/0.13.15:
resolution: {integrity: sha512-zzvyCVVpbwQQATaf3IG8mu1IwGEiDxKkYUdA4FpoCHi1KtPa13jeScYDjlW0Qh+ebWzpKfR2ZwvqAQkSWNcKjA==}
cpu: [arm64]
os: [win32]
requiresBuild: true
dev: true

optional: true

/esbuild/0.13.15:
resolution: {integrity: sha512-raCxt02HBKv8RJxE8vkTSCXGIyKHdEdGfUmiYb8wnabnaEmHzyW7DCHb5tEN0xU8ryqg5xw54mcwnYkC4x3AIw==}
hasBin: true
requiresBuild: true
optionalDependencies:
esbuild-android-arm64: 0.13.15
esbuild-darwin-64: 0.13.15
esbuild-darwin-arm64: 0.13.15
esbuild-freebsd-64: 0.13.15
esbuild-freebsd-arm64: 0.13.15
esbuild-linux-32: 0.13.15
esbuild-linux-64: 0.13.15
esbuild-linux-arm: 0.13.15
esbuild-linux-arm64: 0.13.15
esbuild-linux-mips64le: 0.13.15
esbuild-linux-ppc64le: 0.13.15
esbuild-netbsd-64: 0.13.15
esbuild-openbsd-64: 0.13.15
esbuild-sunos-64: 0.13.15
esbuild-windows-32: 0.13.15
esbuild-windows-64: 0.13.15
esbuild-windows-arm64: 0.13.15
dev: true

/escape-goat/2.1.1:
resolution: {integrity: sha512-8/uIhbG12Csjy2JEW7D9pHbreaVaS/OpN3ycnyvElTdwM5n6GY6W6e2IPemfvGZeUMqZ9A/3GqIZMgKnBhAw/Q==}
engines: {node: '>=8'}
dev: true

/escape-string-regexp/1.0.5:
resolution: {integrity: sha1-G2HAViGQqN/2rjuyzwIAyhMLhtQ=}
engines: {node: '>=0.8.0'}
dev: true

/escape-string-regexp/4.0.0:
resolution: {integrity: sha512-TtpcNJ3XAzx3Gq8sWRzJaVajRs0uVxA2YAkdb1jm2YkPz4G6egUFAyA3n5vtEIZefPk5Wa4UXbKuS5fKkJWdgA==}
engines: {node: '>=10'}
dev: true

/estree-walker/2.0.2:
  resolution: {integrity: sha512-Rfkk/Mp/DL7JVje3u18FxFujQlTNR2q6QfMSMB7AvCBx91NGj/ba3kCfza0f6dVDbw7YlRf/nDrn7pQrCCyQ/w==}
  dev: true

/exec-buffer/3.2.0:
  resolution: {integrity: sha512-wsiD+2Tp6BWHoVv3B+5Dcx6E7u5zky+hUwOHjuH2hKSLR3dvRmX8fk8UD8uqQixHs4Wk6eDmiegVrMPjKj7wpA==}
  engines: {node: '>=4'}
  dependencies:
    execa: 0.7.0
    p-finally: 1.0.0
    pify: 3.0.0
    rimraf: 2.7.1
    tempfile: 2.0.0
  dev: true

/execa/0.7.0:
  resolution: {integrity: sha1-lEvs00zEHuMqY6n68nrVpl/Fl3c=}
  engines: {node: '>=4'}
  dependencies:
    cross-spawn: 5.1.0
    get-stream: 3.0.0
    is-stream: 1.1.0
    npm-run-path: 2.0.2
    p-finally: 1.0.0
    signal-exit: 3.0.6
    strip-eof: 1.0.0
  dev: true

/execa/1.0.0:
  resolution: {integrity: sha512-adbxcyWV46qiHyvSp50TKt05tB4tK3HcmF7/nxfAdhnox83seTDbwnaqKO4sXRy7roHAIFqJP/Rw/AuEbX61LA==}
   engines: {node: '>=6'}
  dependencies:
    cross-spawn: 6.0.5
    get-stream: 4.1.0
    is-stream: 1.1.0
    npm-run-path: 2.0.2
    p-finally: 1.0.0
    signal-exit: 3.0.6
    strip-eof: 1.0.0
  dev: true

/executable/4.1.1:

resolution: {integrity: sha512-
8iA79xD3uAch729dUG8xaaBBFGaEa0wdD2VkYLFHwlqosEj/jT66AzcreRDSgV7ehnNLBW2WR5jIXwGKjVdTLg==}
engines: {node: '>=4'}
dependencies:
pify: 2.3.0
dev: true

/expand-template/2.0.3:
resolution: {integrity: sha512-
XYfuKMvj4O35f/pOXLObndIRvyQ+/+6AhODh+OKWj9S9498pHHn/IMszH+gt0fBCRWMNfk1ZSp5x3AifmnI2vg==}
engines: {node: '>=6'}
dev: true

/ext-list/2.2.2:
resolution: {integrity: sha512-
u+SQgsubraE6zItfVA0tBuCBhfU9ogSRnsvygI7wht9TS510oLkBRXBsqopeUG/GBOIQyKZO9wjTqIu/sf5zFA==}
engines: {node: '>=0.10.0'}
dependencies:
mime-db: 1.51.0
dev: true

/ext-name/5.0.0:
resolution: {integrity: sha512-
yblEwXAbGv1VQDmow7s38W77hzAgJAO50ztBLMcUyUBfxv1HC+LGwtiEN+Co6LtlqT/5uwVOxsD4TNIilWhwdQ==}
engines: {node: '>=4'}
dependencies:
ext-list: 2.2.2
sort-keys-length: 1.0.1
dev: true

/external-editor/3.1.0:
resolution: {integrity: sha512-
hMQ4CX1p1izmuLYyZqLMO/qGNw10wSv9QDCPfzXfyFrOaCSSoRfqE1Kf1s5an66J5JZC62NewG+mK49jOCtQew==}
engines: {node: '>=4'}
dependencies:
chardet: 0.7.0
iconv-lite: 0.4.24
tmp: 0.0.33
dev: true

/fast-glob/3.2.11:
resolution: {integrity: sha512-
xrO3+1bxSo3ZVHAnqzyuewYT6aMFHRAd4Kcs92MAonjwQZLsK9d0SF1IyQ3k5PoirxTW0Oe/RqFgMQ6TcNE5Ew==}

engines: {node: '>=8.6.0'}
dependencies:
'@nodelib/fs.stat': 2.0.5
'@nodelib/fs.walk': 1.2.8
glob-parent: 5.1.2
merge2: 1.4.1
micromatch: 4.0.4
dev: true

/fastq/1.13.0:
resolution: {integrity: sha512-YpkpUnK8od0o1hmeSc7UUs/eB/vIPWJYjKck2QKIzAf71Vm1AAQ3EbuZB3g2JIy+pg+ERD0vqI79KyZiB2e2Nw==}
dependencies:
reusify: 1.0.4
dev: true

/fd-slicer/1.1.0:
resolution: {integrity: sha1-JcfInLH5B3+IkbvmHY85Dq4lbx4=}
dependencies:
pend: 1.2.0
dev: true

/figures/1.7.0:
resolution: {integrity: sha1-y+Hjr/zxzUS4DK3+0o3Hk6lwHS4=}
engines: {node: '>=0.10.0'}
dependencies:
escape-string-regexp: 1.0.5
object-assign: 4.1.1
dev: true

/figures/3.2.0:
resolution: {integrity: sha512-yaduQFRKLXYOGgEn6AZau90j3ggSOyiqXU0F9JZfeXYhNa+Jk4X+s45A2zg5jns87GAFa34BBm2kXw4XpNcbdg==}
engines: {node: '>=8'}
dependencies:
escape-string-regexp: 1.0.5
dev: true

/file-type/16.5.3:
resolution: {integrity: sha512-uVsl7iFhHSOY4bEONLlTK47iAHtNsFHWP5YE4xJfZ4rnX7S1Q3wce09XgqSC7E/xh8Ncv/be1lNoyprlUH/x6A==}
engines: {node: '>=10'}
dependencies:
readable-web-to-node-stream: 3.0.2
strtok3: 6.2.4

token-types: 4.1.1
dev: true

/file-type/3.9.0:
resolution: {integrity: sha1-JXoHg4TR24CHvESdEH1SpSZyuek=}
engines: {node: '>=0.10.0'}
dev: true

/file-type/4.4.0:
resolution: {integrity: sha1-G2AOX8ofvcboDApwxxyNul95BsU=}
engines: {node: '>=4'}
dev: true

/file-type/5.2.0:
resolution: {integrity: sha1-LdvqfHP/42No365J3DOMBYwritY=}
engines: {node: '>=4'}
dev: true

/file-type/6.2.0:
resolution: {integrity: sha512-
YPcTBDV+2Tm0VqjybVd32MHdlEGAtuxS3VAYsumFokDSMG+ROT5wawGlnHDoz7bfMcMDt9hxuXvXwoK
Ux2fkOg==}
engines: {node: '>=4'}
dev: true

/file-type/8.1.0:
resolution: {integrity: sha512-
qyQ0pzAy78gVoJsmYeNgl8uH8yKhr1lVhW7JbzJmnlRi0I4R2eEDEJZVKG8agpDnLpacwNbDhLNG/LMdxHD2
YQ==}
engines: {node: '>=6'}
dev: true

/filename-reserved-regex/2.0.0:
resolution: {integrity: sha1-q/c9+rc10EVECr/qLZHzieu/oik=}
engines: {node: '>=4'}
dev: true

/filenamify/2.1.0:
resolution: {integrity: sha512-
ICw7NTT6RsDp2rnYKVd8Fu4cr6ITzGy3+u4vUujPkabyaz+03F24NWEX7fs5fp+kBonlaqPH8fAO2NM+SXt/JA=
=}
engines: {node: '>=4'}
dependencies:
filename-reserved-regex: 2.0.0
strip-outer: 1.0.1
trim-repeated: 1.0.0
dev: true

/fill-range/7.0.1:
  resolution: {integrity: sha512-
qOo9F+dMUmC2Lcb4BbVvnKJxTPjCm+RRpe4gDuGrzkL7mEVl/djYSu2OdQ2Pa302N4oqkSg9ir6jaLWJ2USVpQ==}
  engines: {node: '>=8'}
  dependencies:
    to-regex-range: 5.0.1
  dev: true

/find-up/1.1.2:
  resolution: {integrity: sha1-ay6YIrGizgpgq2TWEOzK1TyyTQ8=}
  engines: {node: '>=0.10.0'}
  dependencies:
    path-exists: 2.1.0
    pinkie-promise: 2.0.1
  dev: true

/find-versions/3.2.0:
  resolution: {integrity: sha512-
P8WRou2S+oe222TOCHitLy8zj+SIsVJh52VP4lvXkaFVnOFFdoWv1H1Jjvel1aI6NCFOAaeAVm8qrI0odiLcww==}
  engines: {node: '>=6'}
  dependencies:
    semver-regex: 2.0.0
  dev: true

/follow-redirects/1.14.7:
  resolution: {integrity: sha512-
+hbxoLbFMbRKDwohX8GkTataGqO6Jb7jGwpAlwgy2bIz25XtRm7KEzJM76R1WiNT5SwZkX4Y75SwBolkpmE7iQ==}
  engines: {node: '>=4.0'}
  peerDependencies:
    debug: '*'
  peerDependenciesMeta:
    debug:
      optional: true

  dev: false

/from2/2.3.0:
  resolution: {integrity: sha1-i/tVAr3kpNNs/e6gB/zKIdfjgq8=}
  dependencies:
    inherits: 2.0.4
    readable-stream: 2.3.7
  dev: true

/fs-constants/1.0.0:
  resolution: {integrity: sha512-

y6OAwoSIf7FyjMIv94u+b5rdheZEjzR63GTyZJm5qh4Bi+2YgwLCcI/fPFZkL5PSixOt6ZNKm+w+Hfp/Bciwow==}
  dev: true

 /fs-extra/10.0.0:
  resolution: {integrity: sha512-C5owb14u9eJwizKGdchcDUQeFtlSHHthBk8pbX9Vc1PFZrLombudjDnNns88aYslCyF6IY5SUw3Roz6xShcEIQ==}
  engines: {node: '>=12'}
  dependencies:
    graceful-fs: 4.2.9
    jsonfile: 6.1.0
    universalify: 2.0.0
  dev: true

 /fs.realpath/1.0.0:
  resolution: {integrity: sha1-FQStJSMVjKpA20onh8sBQRmU6k8=}
  dev: true

 /fsevents/2.3.2:
  resolution: {integrity: sha512-xiqMQR4xAeHTuB9uWm+fFRcIOgKBMiOBP+eXiyT7jsgVCq1bkVygt00oASowB7EdtpOHaaPgKt812P9ab+DDKA==}
  engines: {node: ^8.16.0 || ^10.6.0 || >=11.0.0}
  os: [darwin]
  requiresBuild: true
  dev: true
  optional: true

 /function-bind/1.1.1:
   resolution: {integrity: sha512-yIovAzMX49sF8Yl58fSCWJ5svSLuaibPxXQJFLmBObTuCr0Mf1KiPopGM9NiFjiYBCbfaa2Fh6breQ6ANVTI0A==}
  dev: true

 /gauge/2.7.4:
  resolution: {integrity: sha1-LANAXHU4w51+s3sxcCLjJfsBi/c=}
  dependencies:
    aproba: 1.2.0
    console-control-strings: 1.1.0
    has-unicode: 2.0.1
    object-assign: 4.1.1
    signal-exit: 3.0.6
    string-width: 1.0.2
    strip-ansi: 3.0.1
    wide-align: 1.1.5
  dev: true

/get-proxy/2.1.0:
  resolution: {integrity: sha512-
zmZIaQTWnNQb4R4fJUEp/FC51eZsc6EkErspy3xtIYStaq8EB/hDIWipxsal+E8rz0qD7f2sL/NA9Xee4RInJw==}
  engines: {node: '>=4'}
  dependencies:
    npm-conf: 1.1.3
  dev: true

/get-stdin/4.0.1:
  resolution: {integrity: sha1-uWjGsKBDhDJJAui/Gl3zJXmkUP4=}
  engines: {node: '>=0.10.0'}
  dev: true

/get-stream/2.3.1:
  resolution: {integrity: sha1-Xzj5PzRgCWZu4BUKBUFn+Rvdld4=}
  engines: {node: '>=0.10.0'}
  dependencies:
    object-assign: 4.1.1
    pinkie-promise:
2.0.1
  dev: true

/get-stream/3.0.0:
  resolution: {integrity: sha1-jpQ9E1jcN1VQVOy+LtsFqhdO3hQ=}
  engines: {node: '>=4'}
  dev: true

/get-stream/4.1.0:
  resolution: {integrity: sha512-
GMat4EJ5161kIy2HevLlr4luNjBgvmj413KaQA7jt4V8B4RDsfpHk7WQ9GVqfYyyx8OS/L66Kox+rJRNklLK7w=
=}
  engines: {node: '>=6'}
  dependencies:
    pump: 3.0.0
  dev: true

/get-stream/5.2.0:
  resolution: {integrity: sha512-
nBF+F1rAZVCu/p7rjzgA+Yb4lfYXrpl7a6VmJrU8wF9I1CKvP/QwPNZHnOlwbTkY6dvtFIzFMSyQXbLoTQPRp
A==}
  engines: {node: '>=8'}
  dependencies:
    pump: 3.0.0
  dev: true

/github-from-package/0.0.0:
  resolution: {integrity: sha1-l/tdlr/eiXMxPyDoKI75oWf6ZM4=}
  dev: true

/glob-parent/5.1.2:
  resolution: {integrity: sha512-
AOIgSQCepiJYwP3ARnGx+5VnTu2HBYdzbGP45eLw1vr3zB3vZLeyed1sC9hnbcOc9/SrMyM5RPQrkGz4aS9Zo
w==}
  engines: {node: '>= 6'}
  dependencies:
    is-glob: 4.0.3
  dev: true

/glob/7.2.0:
  resolution: {integrity: sha512-
lmLf6gtyrPq8tTjSmrO94wBeQbFR3HbLHbuyD69wuyQkImp2hWqMGB47OX65FBkPffO641IP9jWa1z4ivqG26
Q==}
   dependencies:
    fs.realpath: 1.0.0
    inflight: 1.0.6
    inherits: 2.0.4
    minimatch: 3.0.4
    once: 1.4.0
    path-is-absolute: 1.0.1
  dev: true

/global-agent/3.0.0:
  resolution: {integrity: sha512-
PT6XReJ+D07JvGoxQMkT6qji/jVNfX/h364XHZOWeRzy64sSFr+xJ5OX7LI3b4MPQzdL4H8Y8M0xzPpsVMw
A8Q==}
  engines: {node: '>=10.0'}
  dependencies:
    boolean: 3.1.4
    es6-error: 4.1.1
    matcher: 3.0.0
    roarr: 2.15.4
    semver: 7.3.5
    serialize-error: 7.0.1
  dev: true

/global-dirs/3.0.0:
  resolution: {integrity: sha512-
v8ho2DS5RiCjftj1nD9NmnfaOzTdud7RRnVd9kFNOjqZbISlx5DQ+OrTkywgd0dIt7oFCvKetZSHoHcP3sDdiA==
}
  engines: {node: '>=10'}
  dependencies:
    ini: 2.0.0
  dev: true

/globalthis/1.0.2:
  resolution: {integrity: sha512-

ZQnSFO1la8P7auIOQECnm0sSuoMeaSq0EEdXMBFF2QJO4uNcwbyhSgG3MruWNbFTqCLmxVwGOl7LZ9kA
SvHdeQ==}
  engines: {node: '>= 0.4'}
   dependencies:
    define-properties: 1.1.3
  dev: true

/globby/12.2.0:
  resolution: {integrity: sha512-
wiSuFQLZ+urS9x2gGPl1H5drc5twabmm4m2gTR27XDFyjUHJUNsS8o/2aKyIF6IoBaR630atdher0XJ5g6OMmA
==}
  engines: {node: ^12.20.0 || ^14.13.1 || >=16.0.0}
  dependencies:
    array-union: 3.0.1
    dir-glob: 3.0.1
    fast-glob: 3.2.11
    ignore: 5.2.0
    merge2: 1.4.1
    slash: 4.0.0
  dev: true

/got/11.8.2:
  resolution: {integrity: sha512-
D0QywKgIe30ODs+fm8wMZiAcZjypcCodPNuMz5H9Mny7RJ+IjJ10BdmGW7OM7fHXP+O7r6ZwapQ/YQmMS
vB0UQ==}
  engines: {node: '>=10.19.0'}
  dependencies:
    '@sindresorhus/is': 4.4.0
    '@szmarczak/http-timer': 4.0.6
    '@types/cacheable-request': 6.0.2
    '@types/responselike': 1.0.0
    cacheable-lookup: 5.0.4
    cacheable-request: 7.0.2
    decompress-response: 6.0.0
    http2-wrapper: 1.0.3
    lowercase-keys: 2.0.0
    p-cancelable: 2.1.1
    responselike: 2.0.0
  dev: true

/got/7.1.0:
  resolution:
 {integrity: sha512-
Y5WMo7xKKq1muPsxD+KmrR8DH5auG7fBdDVueZwETwV6VytKyU9OX/ddpq2/1hp1vIPvVb4T81dKQz3Biv
kNLw==}
  engines: {node: '>=4'}
  dependencies:
    decompress-response: 3.3.0

duplexer3: 0.1.4
get-stream: 3.0.0
is-plain-obj: 1.1.0
is-retry-allowed: 1.2.0
is-stream: 1.1.0
isurl: 1.0.0
lowercase-keys: 1.0.1
p-cancelable: 0.3.0
p-timeout: 1.2.1
safe-buffer: 5.2.1
timed-out: 4.0.1
url-parse-lax: 1.0.0
url-to-options: 1.0.1
dev: true

/got/8.3.2:
resolution: {integrity: sha512-
qjUJ5U/hawxosMryILofZCkm3C84PLJS/0grRIpjAwu+Lkxxj5cxeCU25BG0/3mDSpXKTyZr8oh8wIgLaH0QCw==}
engines: {node: '>=4'}
dependencies:
'@sindresorhus/is': 0.7.0
cacheable-request: 2.1.4
decompress-response: 3.3.0
duplexer3: 0.1.4
get-stream: 3.0.0
into-stream: 3.1.0
is-retry-allowed: 1.2.0
isurl: 1.0.0
lowercase-keys: 1.0.1
mimic-response: 1.0.1
p-cancelable:
0.4.1
p-timeout: 2.0.1
pify: 3.0.0
safe-buffer: 5.2.1
timed-out: 4.0.1
url-parse-lax: 3.0.0
url-to-options: 1.0.1
dev: true

/got/9.6.0:
resolution: {integrity: sha512-
R7eWptXuGYxwijs0eV+v3o6+XH1IqVK8dJOEecQfTmkncw9AV4dcw/Dhxi8MdlqPthxxpZyizMzyg8RTmEsG+Q==}
engines: {node: '>=8.6'}
dependencies:
'@sindresorhus/is': 0.14.0

'@szmarczak/http-timer': 1.1.2
cacheable-request: 6.1.0
decompress-response: 3.3.0
duplexer3: 0.1.4
get-stream: 4.1.0
lowercase-keys: 1.0.1
mimic-response: 1.0.1
p-cancelable: 1.1.0
to-readable-stream: 1.0.0
url-parse-lax: 3.0.0
dev: true

/graceful-fs/4.2.9:
resolution: {integrity: sha512-NtNxqUcXgpW2iMrfqSfR73Glt39K+BLwWsPs94yR63v45T0Wbej7eRmL5cWfwEgqXnmjQp3zaJTshdRW/qC2ZQ==}
dev: true

/has-ansi/2.0.0:
resolution: {integrity: sha1-NPUEnOHs3ysGSa8+8k5F7TVBbZE=}
engines: {node: '>=0.10.0'}
dependencies:

ansi-regex: 2.1.1
dev: true

/has-flag/4.0.0:
resolution: {integrity: sha512-EykJT/Q1KjTWctppgIAgfSO0tKVuZUjhgMr17kqTumMl6Afv3EISleU7qZUzoXDFTAHTDC4NOoG/ZxU3EvlMPQ==}
engines: {node: '>=8'}
dev: true

/has-symbol-support-x/1.4.2:
resolution: {integrity: sha512-3ToOva++HaW+eCpgqZrCfN51IPB+7bJNVT6CUATzueB5Heb8o6Nam0V3HG5dlDvZU1Gn5QLcbahiKw/XVk5JJw==}
dev: true

/has-to-string-tag-x/1.4.1:
resolution: {integrity: sha512-vdbKfmw+3LoOYVr+mtxHaX5a96+0f3DljYd8JOqvOLsf5mw2Otda2qCDT9qRqLAhrjyQ0h7ual5nOiASpsGNFw==}
dependencies:
has-symbol-support-x: 1.4.2
dev: true

/has-unicode/2.0.1:

resolution: {integrity: sha1-4Ob+aijPUROIVeCG0Wkedx3iqLk=}
dev: true

/has-yarn/2.1.0:
resolution: {integrity: sha512-
UqBRqi4ju7T+TqGNdqAO0PaSVGsDGJUBQvk9eUWNGRY1CFGDzYhLWoM7JQEemnlvVcv/YEmc2wNW8B
C24EnUsw==}
engines: {node: '>=8'}
dev: true

/has/1.0.3:
resolution: {integrity: sha512-
f2dvO0VU6Oej7RkWJGrehjbzMAjFp5/VKPp5tTpWIV4JHHZK1/BxbFRtf/siA2SWTe09caDmVtYYzWEIbBS4z
w==}
engines: {node: '>= 0.4.0'}
dependencies:
function-bind: 1.1.1
dev: true

/hosted-git-info/2.8.9:
resolution: {integrity: sha512-
mxIDAb9Lsm6DoOJ7xH+5+X4y1LU/4Hi50L9C5sIswK3JzULS4bwk1FvjdBgvYR4bzT4tuUQiC15FE2f5HbLvY
w==}
dev: true

/http-cache-semantics/3.8.1:
resolution: {integrity: sha512-
5ai2iksyV8ZXmnZhHH4rWPoxxistEexSi5936zIQ1bnNTW5VnA85B6P/VpXiRM017IgRvb2kKo1a//y+0wSp3w=
=}
dev: true

/http-cache-semantics/4.1.0:
resolution: {integrity: sha512-
carPklcUh7ROWRK7Cv27RPtdhYhUsela/ue5/jKzjegVvXDqM2ILE9Q2BGn9JZJh1g87cp56su/FgQSzcWS8cQ==
}
dev: true

/http2-wrapper/1.0.3:
resolution: {integrity: sha512-
V+23sDMr12Wnz7iTcDeJr3O6AIxlnvT/bmaAAAP/Xda35C90p9599p0F1eHR/N1KILWSoWVAiOMFjBBXaXS
Mxg==}
engines: {node: '>=10.19.0'}
dependencies:
quick-lru: 5.1.1
resolve-alpn: 1.2.1
dev: true

/iconv-lite/0.4.24:

resolution: {integrity: sha512-
v3MXnZAcvnywkTUEZomIActle7RXXeedOR31wwl7VlyoXO4Qi9arvSenNQWne1TcRwhCL1HwLI21bEqdpj8/r
A==}
engines: {node: '>=0.10.0'}
dependencies:
safer-buffer: 2.1.2
dev: true

/ieee754/1.2.1:
resolution: {integrity: sha512-
dcyqhDvX1C46lXZcVqCpK+FtMRQVdIMN6/Df5js2zouUsqG7I6sFxitIC+7KYK29KdXOLHdu9zL4sFnoVQnqa
A==}
dev: true

/ignore/5.2.0:
resolution: {integrity: sha512-
CmxgYGiEPCLhfLnpPp1MoRmifwEIOgjcHXxOBjv7mY96c+eWScsOP9c112ZyLdWHi0FxHjI+4uVhKYp/gcdR
mQ==}
engines: {node: '>= 4'}
dev: true

/imagemin-optipng/8.0.0:
resolution: {integrity: sha512-
CUGfhfwqlPjAC0rm8Fy+R2DJDBGjzy2SkfyT09L8rasnF9jSoHFqJ1xxSZWK6HVPZBMhGPMxCTL70OgTHlLF
5A==}
engines: {node: '>=10'}
dependencies:
exec-buffer: 3.2.0
is-png: 2.0.0
optipng-bin: 7.0.1
dev: true

/imagemin-zopfli/7.0.0:
resolution: {integrity: sha512-
nmffj58rVb0O3AlCZLBBVKGyZ5MYPZZfKxUhvA7bwPGougHl/F7EUKSse9jkgXjdvtJYG2ojJeh5N67mYgBM
9g==}
engines: {node: '>=10'}
dependencies:
exec-buffer: 3.2.0
is-png:
2.0.0
zopflipng-bin: 6.0.1
dev: true

/imagemin/8.0.1:
resolution: {integrity: sha512-
Q/QaPi+5HuwbZNtQRqUVk6hKacI6z9iWiCSQBisAv7uBynZwO7t1svkryKl7+iSQbkU/6t9DWnHz04cFs2WY7w
==}

engines: {node: '>=12'}
dependencies:
file-type: 16.5.3
globby: 12.2.0
graceful-fs: 4.2.9
junk: 3.1.0
p-pipe: 4.0.0
replace-ext: 2.0.0
slash: 3.0.0
dev: true

/import-fresh/3.3.0:
resolution: {integrity: sha512-veYYhQa+D1QBKznvhUHxb8faxlrwUnxseDAbAp457E0wLNio2bOSKnjYDhMj+YiAq61xrMGhQk9iXVk5FzgQMw==}
engines: {node: '>=6'}
dependencies:
parent-module: 1.0.1
resolve-from: 4.0.0
dev: true

/import-lazy/2.1.0:
resolution: {integrity: sha1-BWmOPUXIjo1+nZLLBYTnfwlvPkM=}
engines: {node: '>=4'}
dev: true

/import-lazy/3.1.0:
resolution: {integrity: sha512-8/gvXvX2JMn0F+CDlSC4l6kOmVaLOO3XLkksI7CI3Ud95KDYJuYur2b9P/PUt/i/pDAMd/DulQsNbbbmRRsDIQ==}
engines: {node: '>=6'}
dev: true

/imurmurhash/0.1.4:
resolution: {integrity: sha1-khi5srkoojixPcT7a21XbyMUU+o=}
engines: {node: '>=0.8.19'}
dev: true

/indent-string/2.1.0:
resolution: {integrity: sha1-ji1INIdCEhtKghi3oTfppSBJ3IA=}
engines: {node: '>=0.10.0'}
dependencies:
repeating: 2.0.1
dev: true

/inflight/1.0.6:
resolution: {integrity: sha1-Sb1jMdfQLQwJvJEKEHW6gWW1bfk=}
dependencies:

```
    once: 1.4.0
    wrappy: 1.0.2
  dev: true

 /inherits/2.0.4:
  resolution: {integrity: sha512-
k/vGaX4/Yla3WzyMCvTQOXYeIHvqOKtnqBduzTHpzpQZzAskKMhZ2K+EnBiSM9zGSoIFeMpXKxa4dYeZIQ
qewQ==}
  dev: true

 /ini/1.3.8:
  resolution: {integrity: sha512-
JV/yugV2uzW5iMRSiZAyDtQd+nxtUnjeLt0acNdw98kKLrvuRVyB80tsREOE7yvGVgalhZ6RNXCmEHkUKBKx
ew==}
  dev: true

 /ini/2.0.0:
  resolution: {integrity: sha512-
7PnF4oN3CvZF23ADhA5wRaYEQpJ8qygSkbtTXWBeXWXmEVRXK+1ITciHWwHhsjv1TmW0MgacIv6hEi5p
X5NQdA==}
  engines: {node: '>=10'}
  dev: true

 /inquirer/8.1.2:
  resolution: {integrity: sha512-
DHLKJwLPNgkfwNmsuEUKSejJFbkv0FMO9SMiQbjI3n5NQuCrSIBqP66ggqyz2a6t2qEolKrMjhQ3+W/xXgUQ+
Q==}
   engines: {node: '>=8.0.0'}
  dependencies:
    ansi-escapes: 4.3.2
    chalk: 4.1.2
    cli-cursor: 3.1.0
    cli-width: 3.0.0
    external-editor: 3.1.0
    figures: 3.2.0
    lodash: 4.17.21
    mute-stream: 0.0.8
    ora: 5.4.1
    run-async: 2.4.1
    rxjs: 7.5.2
    string-width: 4.2.3
    strip-ansi: 6.0.1
    through: 2.3.8
  dev: true

 /into-stream/3.1.0:
  resolution: {integrity: sha1-lvsKk2wSur1v8XUqF9BWFqvQlMY=}
  engines: {node: '>=4'}
```

  dependencies:
    from2: 2.3.0
    p-is-promise: 1.1.0
  dev: true

 /is-arrayish/0.2.1:
  resolution: {integrity: sha1-d8mYQFJ6qOyxqLppe4BkWnqSap0=}
  dev: true

 /is-arrayish/0.3.2:
  resolution: {integrity: sha512-
eVRqCvVlZbuw3GrM63ovNSNAeA1K16kaR/LRY/92w0zxQ5/1YzwblUX652i4Xs9RwAGjW9d9y6X88t8OaAJf
WQ==}
  dev: true

 /is-binary-path/2.1.0:
  resolution: {integrity: sha512-
ZMERYes6pDydyuGidse7OsHxtbI7WVeUEozgR/g7rd0xUimYNlvZRE/K2MgZTjWy725IfelLeVcEM97mmtRGX
w==}
   engines: {node: '>=8'}
  dependencies:
    binary-extensions: 2.2.0
  dev: true

 /is-ci/2.0.0:
  resolution: {integrity: sha512-
YfJT7rkpQB0updsdHLGWrvhBJfcfzNNawYDNIyQXJz0IViGf75O8EBPKSdvw2rF+LGCsX4FZ8tcr3b19LcZq4w
==}
  hasBin: true
  dependencies:
    ci-info: 2.0.0
  dev: true

 /is-core-module/2.8.1:
  resolution: {integrity: sha512-
SdNCUs284hr40hFTFP6l0IfZ/RSrMXF3qgoRHd3/79unUTvrFO/JoXwkGm+5J/Oe3E/b5GsnG330uUNgRpu1PA=
=}
  dependencies:
    has: 1.0.3
  dev: true

 /is-extglob/2.1.1:
  resolution: {integrity: sha1-qIwCU1eR8C7TfHahueqXc8gz+MI=}
  engines: {node: '>=0.10.0'}
  dev: true

 /is-finite/1.1.0:
  resolution: {integrity: sha512-

cdyMtqX/BOqqNBBiKlIVkytNHm49MtMlYyn1zxzvJKWmFMlGzm+ry5BBfYyeY9YmNKbRSo/o7OX9w9ale0wg3w==}
  engines: {node: '>=0.10.0'}
  dev: true

/is-fullwidth-code-point/1.0.0:
  resolution: {integrity: sha1-754xOG8DGn8NZDr4L95QxFfvAMs=}
  engines:
{node: '>=0.10.0'}
  dependencies:
    number-is-nan: 1.0.1
  dev: true

/is-fullwidth-code-point/3.0.0:
  resolution: {integrity: sha512-zymm5+u+sCsSWyD9qNaejV3DFvhCKclKdizYaJUuHA83RLjb7nSuGnddCHGv0hk+KY7BMAlsWeK4Ueg6EV6XQg==}
  engines: {node: '>=8'}
  dev: true

/is-glob/4.0.3:
  resolution: {integrity: sha512-xelSayHH36ZgE7ZWhli7pW34hNbNl8Ojv5KVmkJD4hBdD3th8Tfk9vYasLM+mXWOZhFkgZfxhLSnrwRr4elSSg==}
  engines: {node: '>=0.10.0'}
  dependencies:
    is-extglob: 2.1.1
  dev: true

/is-installed-globally/0.4.0:
  resolution: {integrity: sha512-iwGqO3J21aaSkC7jWnHP/difazwS7SFeIqxv6wEtLU8Y5KlzFTjyqcSIT0d8s4+dDhKytsk9PJZ2BkS5eZwQRQ==}
  engines: {node: '>=10'}
  dependencies:
    global-dirs: 3.0.0
    is-path-inside: 3.0.3
  dev: true

/is-interactive/1.0.0:
  resolution: {integrity: sha512-2HvIEKRoqS62guEC+qBjpvRubdX910WCMuJTZ+I9yvqKU2/12eSL549HMwtabb4oupdj2sMP50k+XJfB/8JE6w==}
  engines: {node: '>=8'}
  dev: true

/is-natural-number/4.0.1:
   resolution: {integrity: sha1-q5124dtM7VHjXeDHLr7PCfc0zeg=}
  dev: true

/is-npm/5.0.0:
resolution: {integrity: sha512-WW/rQLOazUq+ST/bCAVBp/2oMERWLsR7OrKyt052dNDk4DHcDE0/7QSXITlmi+VBcV13DfIbysG3tZJm5RfdBA==}
engines: {node: '>=10'}
dev: true

/is-number/7.0.0:
resolution: {integrity: sha512-41Cifkg6e8TylSpdtTpeLVMqvSBEVzTttHvERD741+pnZ8ANv0004MRL43QKPDlK9cGvNp6NZWZUBlbGXYxxng==}
engines: {node: '>=0.12.0'}
dev: true

/is-obj/2.0.0:
resolution: {integrity: sha512-drqDG3cbczxxEJRoOXcOjtdp1J/lyp1mNn0xaznRs8+muBhgQcrnbspox5X5fOw0HnMnbfDzvnEMEtqDEJEo8w==}
engines: {node: '>=8'}
dev: true

/is-object/1.0.2:
resolution: {integrity: sha512-2rRIahhZr2UWb45fIOuvZGpFtz0TyOZLf32KxBbSoUCeZR495zCKlWUKKUByk3geS2eAs7ZAABt0Y/Rx0GiQGA==}
dev: true

/is-path-inside/3.0.3:
resolution: {integrity: sha512-Fd4gABb+ycGAmKou8eMftCupSir5lRxqf4aD/vd0cD2qc4HL07OjCeuHMr8Ro4CoMaeCKDB0/ECBOVWjTwUvPQ==}
engines: {node: '>=8'}
dev: true

/is-plain-obj/1.1.0:
resolution: {integrity: sha1-caUMhCnfync8kqOQpKA7OfzVHT4=}
engines: {node: '>=0.10.0'}
dev: true

/is-png/2.0.0:
resolution: {integrity: sha512-4KPGizaVGj2LK7xwJIz8o5B2ubu1D/vcQsgOGFEDlpcvgZHto4gBnyd0ig7Ws+67ixmwKoNmu0hYnpo6AaKb5g==}
engines: {node: '>=8'}
dev: true

/is-png/3.0.0:

resolution: {integrity: sha512-
waa2qEuqgLjjYT14KOUQqAEIRRIv7ttkzPVctY/qv+IAKnzXf+JAPKQas50RgO0ECPDUG/iB1zQmwpyB9kkZtQ==}
engines: {node: '>=12'}
dev: true

/is-retry-allowed/1.2.0:
resolution: {integrity: sha512-
RUbUeKwvm3XG2VYamhJL1xFktgjvPzL0Hq8C+6yrWIswDy3BIXGqCxhxkc30N9jqK311gVU137K8Ei55/zVJRg==}
engines: {node: '>=0.10.0'}
dev: true

/is-stream/1.1.0:
resolution: {integrity: sha1-EtSj3U5o4Lec6428hBc66A2RykQ=}
engines: {node: '>=0.10.0'}
dev: true

/is-typedarray/1.0.0:
resolution: {integrity: sha1-5HnICFjfDBsR3dppQPlgEfzaSpo=}
dev: true

/is-unicode-supported/0.1.0:
resolution: {integrity: sha512-
knxG2q4UC3u8stRGyAVJCOdxFmv5DZiRcdlIaAQXAbSfJya+OhopNotLQrstBhququ4ZpuKbDc/8S6mgXgPFPw==}
engines: {node: '>=10'}
dev: true

/is-utf8/0.2.1:
resolution: {integrity: sha1-Sw2hRCEE0bM2NA6AeX6GXPOffXI=}
dev: true

/is-yarn-global/0.3.0:
resolution: {integrity: sha512-
VjSeb/lHmkoyd8ryPVIKvOCn4D1koMqY+vqyjjUfc3xyKtP4dYOxM44sZrnqQSzSds3xyOrUTLTC9LVCVgLngw==}
dev: true

/isarray/1.0.0:
resolution: {integrity: sha1-u5NdSFgsuhaMBoNJV6VKPgcSTxE=}
dev: true

/isexe/2.0.0:
resolution: {integrity: sha1-6PvzdNxVb/iUehDcsFctYz8s+hA=}
dev: true

/isurl/1.0.0:

resolution: {integrity: sha512-
1P/yWsxPlDtn7QeRD+ULKQPaIaN6yF368GZ2vDfv0AL0NwpStafjWCDDdn0k8wgFMWpVAqG7oJhxHnlud42i
9w==}
engines: {node: '>= 4'}
dependencies:
has-to-string-tag-x: 1.4.1
is-object: 1.0.2
dev: true

/json-buffer/3.0.0:
resolution: {integrity: sha1-Wx85evx11ne96Lz8Dkfh+aPZqJg=}
dev: true

/json-buffer/3.0.1:
resolution: {integrity: sha512-
4bV5BfR2mqfQTJm+V5tPPdf+ZpuhiIvTuAB5g8kcrXOZpTT/QwwVRWBywX1ozr6lEuPdbHxwaJlm9G6mI2sfS
Q==}
dev: true

/json-stringify-safe/5.0.1:
resolution: {integrity: sha1-Epai1Y/UXxmg9s4B1lcB4sc1tus=}
dev: true

/jsonfile/6.1.0:
resolution: {integrity: sha512-
5dgndWOriYSm5cnYaJNhalLNDKOqFwyDB/rr1E9ZsGciGvKPs8R2xYGCacuf3z6K1YKDz182fd+fY3cn3pMqX
Q==}
dependencies:
universalify: 2.0.0
optionalDependencies:
graceful-fs: 4.2.9
dev: true

/junk/3.1.0:
resolution: {integrity: sha512-
pBxcB3LFc8QVgdggvZWyeys+hnrNWg4OcZIU/1X59k5jQdLBlCsYGRQaz234SqoRLTCgMH00fY0xRJH+F9M
ETQ==}
engines: {node: '>=8'}
dev: true

/keyv/3.0.0:
resolution: {integrity: sha512-
eguHnq22OE3uVoSYG0LVWNP+4ppamWr9+zWBe1bsNcovIMy6huUJFPgy4mGwCd/rnl3vOLGW1MTlu4c57C
T1xA==}
dependencies:
json-buffer: 3.0.0
dev: true

/keyv/3.1.0:
  resolution: {integrity: sha512-
9ykJ/46SN/9KPM/sichzQ7OvXyGDYKGTaDlKMGCAlg2UK8KRy4jb0d8sFc+0Tt0YYnThq8X2RZgCg74RPxgc
VA==}
  dependencies:
    json-buffer: 3.0.0
  dev: true

/keyv/4.0.5:
  resolution: {integrity: sha512-
531pkGLqV3BMg0eDqqJFI0R1mkK1Nm5xIP2mM6keP5P8WfFtCkg2IOwplTUmlGoTgIg9yQYZ/kdihhz89XH3v
A==}
  dependencies:
    json-buffer: 3.0.1
  dev: true

/kleur/4.1.4:
  resolution: {integrity: sha512-
8QADVssbrFjivHWQU7KkMgptGTl6WAcSdlbBPY4uNF+mWr6DGcKrvY2w4FQJoXch7+fKMjj0dRrL75vk3k2
3OA==}
  engines: {node: '>=6'}
  dev: true

/latest-version/5.1.0:
  resolution: {integrity: sha512-
weT+r0kTkRQdCdYCNtkMwWXQTMEswKrFBkm4ckQOMVhhqhIMI1UT2hMj+1iigIhgSZm5gTmrRXBNoGU
gaTY1xA==}
  engines: {node: '>=8'}
  dependencies:
    package-json: 6.5.0
  dev: true

/load-json-file/1.1.0:
  resolution: {integrity: sha1-lWkFcI1YtLq0wiYbBPWfMcmTdMA=}
  engines: {node: '>=0.10.0'}
  dependencies:
    graceful-fs: 4.2.9
    parse-json: 2.2.0
    pify: 2.3.0
    pinkie-promise: 2.0.1
    strip-bom: 2.0.0
  dev: true

/lodash/4.17.21:
  resolution: {integrity: sha512-
v2kDEe57lecTulaDIuNTPy3Ry4gLGJ6Z1O3vE1krgXZNrsQ+LFTGHVxVjcXPs17LhbZVGedAJv8XZ1tvj5FvSg=
=}

dev: true

/log-symbols/4.1.0:
resolution: {integrity: sha512-
8XPvpAA8uyhfteu8pIvQxpJZ7SYYdpUivZpGy6sFsBuKRY/7rQGavedeB8aK+Zkyq6upMFVL/9AW6vOYzfRyL
g==}
engines: {node: '>=10'}
dependencies:
chalk: 4.1.2
is-unicode-supported: 0.1.0
dev: true

/logalot/2.1.0:
resolution: {integrity: sha1-X46MkNME7fElMJUaVVSruMXj9VI=}
engines: {node: '>=0.10.0'}
dependencies:
figures: 1.7.0
squeak: 1.3.0
dev: true

/longest/1.0.1:
resolution: {integrity: sha1-MKCy2jj3N3DoKUoNIuZiXtd9AJc=}
engines: {node: '>=0.10.0'}
dev: true

/loud-rejection/1.6.0:
resolution: {integrity: sha1-W0b4AUft7leIcPCG0Eghz5mOVR8=}
engines: {node: '>=0.10.0'}
dependencies:
currently-unhandled: 0.4.1
signal-exit: 3.0.6
dev: true

/lowercase-keys/1.0.0:
resolution: {integrity: sha1-TjNms55/VFfjXxMkvfb4jQv8cwY=}
engines: {node: '>=0.10.0'}
dev:
true

/lowercase-keys/1.0.1:
resolution: {integrity: sha512-
G2Lj61tXDnVFFOi8VZds+SoQjtQC3dgokKdDG2mTm1tx4m50NUHBOZSBwQQHyy0V12A0JTG4icfZQH+xPy
h8VA==}
engines: {node: '>=0.10.0'}
dev: true

/lowercase-keys/2.0.0:
resolution: {integrity: sha512-

tqNXrS78oMOE73NMxK4EMLQsQowWf8jKooH9g7xPavRT706R6bkQJ6DY2Te7QukaZsulxa30wQ7bk0pm4XiHmA==}
  engines: {node: '>=8'}
  dev: true

/lpad-align/1.1.2:
  resolution: {integrity: sha1-IfYArBwwlcPG5JfuZyce4ISB/p4=}
  engines: {node: '>=0.10.0'}
  hasBin: true
  dependencies:
    get-stdin: 4.0.1
    indent-string: 2.1.0
    longest: 1.0.1
    meow: 3.7.0
  dev: true

/lru-cache/4.1.5:
  resolution: {integrity: sha512-sWZlbEP2OsHNkXrMl5GYk/jKk70MBng6UU4YI/qGDYbgf6YbP4EvmqISbXCoJiRKs+1bSpFHVgQxvJ17F2li5g==}
  dependencies:
    pseudomap: 1.0.2
    yallist: 2.1.2
  dev: true

/lru-cache/6.0.0:
  resolution: {integrity: sha512-Jo6dJ04CmSjuznwJSS3pUeWmd/H0ffTlkXXgwZi+eq1UCmqQwCh+eLsYOYCwY991i2Fah4h1BEMCx4qThGbsiA==}
   engines: {node: '>=10'}
  dependencies:
    yallist: 4.0.0
  dev: true

/magic-string/0.25.7:
  resolution: {integrity: sha512-4CrMT5DOHTDk4HYDlzmwu4FVCcIYI8gauveasrdCu2IKIFOJ3f0v/8MDGJCDL9oD2ppz/Av1b0Nj345H9M+XIA==}
  dependencies:
    sourcemap-codec: 1.4.8
  dev: true

/make-dir/1.3.0:
  resolution: {integrity: sha512-2w31R7SJtieJJnQtGc7RVL2StM2vGYVfqUOvUDxH6bC6aJTxPxTF0GnIgCyu7tjockiUWAYQRbxa7vKn34s5sQ==}
  engines: {node: '>=4'}
  dependencies:

pify: 3.0.0
dev: true

/make-dir/3.1.0:
resolution: {integrity: sha512-g3FeP20LNwhALb/6Cz6Dd4F2ngze0jz7tbzrD2wAV+o9FeNHe4rL+yK2md0J/fiSf1sa1ADhXqi5+oVwOM/eGw==}
engines: {node: '>=8'}
dependencies:
semver: 6.3.0
dev: true

/map-obj/1.0.1:
resolution: {integrity: sha1-2TPOuSBdgr3PSIb2dCvcK03qFG0=}
engines: {node: '>=0.10.0'}
dev: true

/matcher/3.0.0:
resolution: {integrity: sha512-OkeDaAZ/bQCxeFAozM55PKcKU0yJMPGifLwV4Qgjitu+5MoAfSQN4lsLJeXZ1b8w0x+/Emda6MZgXS1jvsapng==}
engines: {node: '>=10'}
dependencies:
escape-string-regexp: 4.0.0
dev: true

/meow/3.7.0:
resolution: {integrity: sha1-cstmi0JSKCkKu/qFaJJYcwioAfs=}
engines: {node: '>=0.10.0'}
dependencies:
camelcase-keys: 2.1.0
decamelize: 1.2.0
loud-rejection: 1.6.0
map-obj: 1.0.1
minimist: 1.2.5
normalize-package-data: 2.5.0
object-assign: 4.1.1
read-pkg-up: 1.0.1
redent: 1.0.0
trim-newlines: 1.0.0
dev: true

/merge2/1.4.1:
resolution: {integrity: sha512-8q7VEgMJW4J8tcfVPy8g09NcQwZdbwFEqhe/WZkoIzjn/3TGDwtOCYtXGxA3O8tPzpczCCDgv+P2P5y00ZJOOg==}
engines: {node: '>= 8'}
dev: true

/micromatch/4.0.4:
  resolution: {integrity: sha512-
pRmzw/XUcwXGpD9aI9q/0XOwLNygjETJ8y0ao0wdqprrzDa4YnxLcz7fQRZr8voh8V10kGhABbNcHVk5wHgW
wg==}
  engines: {node: '>=8.6'}
  dependencies:
    braces: 3.0.2
    picomatch: 2.3.1
  dev: true

/mime-db/1.51.0:
  resolution: {integrity:
sha512-
5y8A56jg7XVQx2mbv1lu49NR4dokRnhZYTtL+KGfaa27uq4pSTXkwQkFJl4pkRMyNFz/EtYDSkiiEHx3F7UN6g
==}
  engines: {node: '>= 0.6'}
  dev: true

/mimic-fn/2.1.0:
  resolution: {integrity: sha512-
OqbOk5oEQeAZ8WXWydlu9HJjz9WVdEIvamMCcXmuqUYjTknH/sqsWvhQ3vgwKFRR1HpjvNBKQ37nbJgYz
GqGcg==}
  engines: {node: '>=6'}
  dev: true

/mimic-response/1.0.1:
  resolution: {integrity: sha512-
j5EctnkH7amfV/q5Hgmoal1g2QHFJRraOtmx0JpIqkxhBhI/lJSl1nMpQ45hVarwNETOoWEimndZ4QK0RHxuxQ=
=}
  engines: {node: '>=4'}
  dev: true

/mimic-response/2.1.0:
  resolution: {integrity: sha512-
wXqjST+SLt7R009ySCglWBCFpjUygmCIfD790/kVbiGmUgfYGuB14PiTd5DwVxSV4NcYHjzMkoj5LjQZwTQ
LEA==}
  engines: {node: '>=8'}
  dev: true

/mimic-response/3.1.0:
  resolution: {integrity: sha512-
z0yWI+4FDrrweS8Zmt4Ej5HdJmky15+L2e6Wgn3+iK5fWzb6T3fhNFq2+MeTRb064c6Wr4N/wv0DzQTjNzHNG
Q==}
  engines: {node: '>=10'}
  dev: true

/min-indent/1.0.1:

resolution: {integrity: sha512-
I9jwMn07Sy/IwOj3zVkVik2JTvgpaykDZEigL6Rx6N9LbMywwUSMtxET+7lVoDLLd3O3IXwJwvuuns8UB/HeA
g==}
engines: {node: '>=4'}
dev: true

/minimatch/3.0.4:
resolution: {integrity: sha512-
yJHVQEhyqPLUTgt9B83PXu6W3rx4MvvHvSUvToogpwoGDOUQ+yDrR0HRot+yOCdCO7u4hX3pWft6kWBBc
qh0UA==}
dependencies:
brace-expansion: 1.1.11
dev: true

/minimist/1.2.5:
resolution: {integrity: sha512-
FM9nNUYrRBAELZQT3xeZQ7fmMOBg6nWNmJKTcgsJeaLstP/UODVpGsr5OhXhhXg6f+qtJ8uiZ+PUxkDWcg
IXLw==}
dev: true

/mkdirp-classic/0.5.3:
resolution: {integrity: sha512-
gKLcREMhtuZRwRAfqP3RFW+TK4JqApVBtOIftVgjuABpAtpxhPGaDcfvbhNvD0B8iD1oUr/txX35NjcaY6Ns/A
==}
dev: true

/mkdirp/0.5.5:
resolution: {integrity: sha512-
NKmAlESf6jMGym1++R0Ra7wvhV+wFW63FaSOFPwRahvea0gMUcGUhVeAg/0BC0wiv9ih5NYPB1Wn1UEI1
/L+xQ==}
hasBin: true
dependencies:
minimist: 1.2.5
dev: true

/mri/1.2.0:
resolution: {integrity: sha512-
tzzskb3bG8LvYGFF/mDTpq3jpI6Q9wc3LEmBaghu+DdCssd1FakN7Bc0hVNmEyGq1bq3RgfkCb3cmQLpNPOro
A==}
engines:
{node: '>=4'}
dev: true

/ms/2.1.2:
resolution: {integrity: sha512-
sGkPx+VjMtmA6MX27oA4FBFELFCZZ4S4XqeGOXCv68tT+jb3vk/RyaKWP0PTKyWtmLSM0b+adUTEvbs1P
EaH2w==}
dev: true

/ms/2.1.3:
resolution: {integrity: sha512-
6FlzubTLZG3J2a/NVCAleEhjzq5oxgHyaCU9yYXvcLsvoVaHJq/s5xXI6/XXP6tz7R9xAOtHnSO/tXtF3WRTlA==
}
dev: true

/mute-stream/0.0.8:
resolution: {integrity: sha512-
nnbWWOkoWyUsTjKrhgD0dcz22mdkSnpYqbEjIm2nhwhuxlSkpywJmBo8h0ZqJdkp73mb90SssHkN4rsRaBAfA
A==}
dev: true

/nanoid/3.2.0:
resolution: {integrity: sha512-
fmsZYa9lpn69Ad5eDn7FMcnnSR+8R34W9qJEijxYhTbfOWzr22n1QxCMzXLK+ODyW2973V3Fux959iQoUxzU
IA==}
engines: {node: ^10 || ^12 || ^13.7 || ^14 || >=15.0.1}
hasBin: true
dev: true

/napi-build-utils/1.0.2:
resolution: {integrity: sha512-
ONmRUqK7zj7DWX0D9ADe03wbwOBZxNAfF20PlGfCWQcD3+/MakShIHrMqx9YwPTfxDdF1zLeL+RGZiR9
kGMLdg==}
dev: true

/nice-try/1.0.5:
resolution: {integrity: sha512-
1nh45deeb5olNY7eX82BkPO7SSxR5SSYJiPTrTdFUVYwAl8CKMA5N9PjTYkHiRjisVcxcQ1HXdLhx2qxxJzLN
Q==}
dev: true

/node-abi/2.30.1:
resolution: {integrity: sha512-
/2D0wOQPgaUWzVSVgRMx+trKJRC2UG4SUc4oCJoXx9Uxjtp0Vy3/kt7zcbxHF8+Z/pK3UloLWzBISg72brfy1w
==}
dependencies:
semver: 5.7.1
dev: true

/node-addon-api/3.2.1:
resolution: {integrity: sha512-
mmcei9JghVNDYydghQmeDX8KoAm0FAiYyIcUt/N4nhyAipB17pllZQDOJD2fotxABnt4Mdz+dKTO7eftLg4d0
A==}
dev: true

/normalize-package-data/2.5.0:

resolution: {integrity: sha512-
/5CMN3T0R4XTj4DcGaexo+roZSdSFW/0AOOTROrjxzCG1wrWXEsGbRKevjlIL+ZDE4sZlJr5ED4YW0yqmkK
+eA==}
dependencies:
hosted-git-info: 2.8.9
resolve: 1.22.0
semver: 5.7.1
validate-npm-package-license: 3.0.4
dev: true

/normalize-path/3.0.0:
resolution: {integrity: sha512-
6eZs5Ls3WtCisHWp9S2GUy8dqkpGi4BVSz3GaqiE6ezub0512ESztXUwUB6C6IKbQkY2Pnb/mD4WYojCRwcw
LA==}
engines: {node: '>=0.10.0'}
dev: true

/normalize-url/2.0.1:
resolution: {integrity: sha512-
D6MUW4K/VzoJ4rJ01JFKxDrtY1v9wrgzCX5f2qj/lzH1m/lW6MhUZFKerVsnyjOhOsYzI9Kqqak+10l4LvLpMw=
=}
engines: {node: '>=4'}
dependencies:
prepend-http: 2.0.0
query-string: 5.1.1
sort-keys: 2.0.0
dev: true

/normalize-url/4.5.1:
resolution: {integrity: sha512-
9UZCFRHQdNrfTpGg8+1INIg93B6zE0aXMVFkw1WFwvO4SlZywU6aLg5Of0Ap/PgcbSw4LNxvMWXMeugw
MCX0AA==}
engines: {node: '>=8'}
dev: true

/normalize-url/6.1.0:
resolution: {integrity: sha512-
DlL+XwOy3NxAQ8xuC0okPgK46iuVNAK01YN7RueYBqqFeGsBjV9XmCAzAdgt+667bCl5kPh9EqKKDwnaP
G1I7A==}
engines: {node: '>=10'}
dev: true

/npm-conf/1.1.3:
resolution: {integrity: sha512-
Yic4bZHJOt9RCFbRP3GgpqhScOY4HH3V2P8yBj6CeYq118Qr+BLXqT2JvpJ00mryLESpgOxf5XlFv4ZjXxLSc
w==}
engines: {node: '>=4'}
dependencies:

```
    config-chain: 1.1.13
    pify: 3.0.0
  dev: true

/npm-run-path/2.0.2:
  resolution: {integrity: sha1-NakjLfo11wZ7TLLd8jV7GHFTbF8=}
  engines: {node: '>=4'}
  dependencies:
    path-key: 2.0.1
  dev: true

/npmlog/4.1.2:
  resolution: {integrity: sha512-
2uUqazuKlTaSI/dC8AzicUck7+IrEaOnN/e0jd3Xtt1KcGpwx30v50mL7oPyr/h9bL3E4aZccVwpwP+5W9Vjkg==}
  dependencies:
    are-we-there-yet: 1.1.7
    console-control-strings: 1.1.0
    gauge: 2.7.4
    set-blocking: 2.0.0
  dev: true

/number-is-nan/1.0.1:
  resolution: {integrity: sha1-CXtgK1NCKlIsGvuHkDGDNpQaAR0=}
  engines: {node: '>=0.10.0'}
  dev: true

/object-assign/4.1.1:
  resolution: {integrity: sha1-IQmtx5ZYh8/AXLvUQsrIv7s2CGM=}
  engines: {node: '>=0.10.0'}
  dev: true

/object-keys/1.1.1:
  resolution: {integrity: sha512-
NuAESUOUMrlIXOfHKzD6bpPu3tYt3xvjNdRIQ+FeT0lNb4K8WR70CaDxhuNguS2XG+GjkyMwOzsN5ZktImf
hLA==}
  engines: {node: '>= 0.4'}
  dev: true

/once/1.4.0:
  resolution: {integrity: sha1-WDsap3WWHUsROsF9nFC6753Xa9E=}
  dependencies:
    wrappy: 1.0.2
  dev: true

/onetime/5.1.2:
  resolution: {integrity: sha512-
kbpaSSGJTWdAY5KPVeMOKXSrPtr8C8C7wodJbcsd51jRnmD+GZu8Y0VoU6Dm5Z4vWr0Ig/1NKuWRKf7j5aa
YSg==}
```

engines: {node: '>=6'}
dependencies:
mimic-fn: 2.1.0
dev: true

/optipng-bin/7.0.1:
resolution: {integrity: sha512-W99mpdW7Nt2PpFiaO+74pkht7KEqkXkeRomdWXfEz3SALZ6hns81y/pm1dsGZ6ItUIfchiNIP6ORDr1zETU1jA==}
engines: {node: '>=10'}
hasBin: true
requiresBuild: true
dependencies:
bin-build: 3.0.0
bin-wrapper: 4.1.0
dev: true

/ora/5.4.1:
resolution: {integrity: sha512-5b6Y85tPxZZ7QytO+BQzysW31HJku27cRIlkbAXaNx+BdcVi+LlRFmVXzeF6a7JCwJpyw5c4b+YSVImQIrBpuQ==}
engines: {node: '>=10'}
dependencies:
bl: 4.1.0
chalk: 4.1.2
cli-cursor: 3.1.0
cli-spinners: 2.6.1
is-interactive: 1.0.0
is-unicode-supported: 0.1.0
log-symbols: 4.1.0
strip-ansi: 6.0.1
wcwidth: 1.0.1
dev: true

/os-filter-obj/2.0.0:
resolution: {integrity: sha512-uksVLsqG3pVdzzPvmAHpBK0wKxYItuzZr7SziusRPoz67tGV8rL1szZ6IdeUrbqLjGDwApBtN29eEE3IqGHOjg==}
engines: {node: '>=4'}

dependencies:
arch: 2.2.0
dev: true

/os-tmpdir/1.0.2:
resolution: {integrity: sha1-u+Z0BseaqFxc/sdm/lc0VV36EnQ=}
engines: {node: '>=0.10.0'}
dev: true

/p-cancelable/0.3.0:
resolution: {integrity: sha512-RVbZPLso8+jFeq1MfNvgXtCRED2raz/dKpacfTNxsx6pLEpEomM7gah6VeHSYV3+vo0OAi4MkArtQcWWXuQoyw==}
engines: {node: '>=4'}
dev: true

/p-cancelable/0.4.1:
resolution: {integrity: sha512-HNa1A8LvB1kie7cERyy21VNeHb2CWJJYqyyC2o3klWFfMGlFmWv2Z7sFgZH8ZiaYL95ydToKTFVXgMV/Os0bBQ==}
engines: {node: '>=4'}
dev: true

/p-cancelable/1.1.0:
resolution: {integrity: sha512-s73XxOZ4zpt1edZYZzvhqFa6uvQc1vwUa0K0BdtIZgQMAJj9IbebH+JkgKZc9h+B05PKHLOTl4ajG1BmNrVZlw==}
engines: {node: '>=6'}
dev: true

/p-cancelable/2.1.1:
resolution: {integrity: sha512-BZOr3nRQHOntUjTrH8+Lh54smKHoHyur8We1V8DSMVrl5A2malOOwuJRnKRDjSnkoeBh4at6BwEnb5I7Jl31wg==}
engines: {node: '>=8'}
dev: true

/p-event/1.3.0:
resolution: {integrity: sha1-jmtPT2XHK8W2/ii3XtqHT5akoIU=}
engines: {node: '>=4'}
dependencies:
p-timeout: 1.2.1
dev: true

/p-event/2.3.1:
resolution: {integrity: sha512-NQCqOFhbpVTMX4qMe8PF8lbGtzZ+LCiN7pcNrb/413Na7+TRoe1xkKUzuWa/YEJdGQ0FvKtj35EEbDoVPO2kbA==}
engines: {node: '>=6'}
dependencies:
p-timeout: 2.0.1
dev: true

/p-finally/1.0.0:
resolution: {integrity: sha1-P7z7FbiZpEEjs0ttzBi3JDNqLK4=}
engines: {node: '>=4'}

dev: true

/p-is-promise/1.1.0:
resolution: {integrity: sha1-nJRWmJ6fZYgBewQ01WCXZ1w9oF4=}
engines: {node: '>=4'}
dev: true

/p-map-series/1.0.0:
resolution: {integrity: sha1-v5j+V1cFZYqeE1G++4WuTB8Hvco=}
engines: {node: '>=4'}
dependencies:
p-reduce: 1.0.0
dev: true

/p-pipe/4.0.0:
resolution: {integrity: sha512-
HkPfFklpZQPUKBFXzKFB6ihLriIHxnmuQdK9WmLDwe4hf2PdhhfWT/FJa+pc3bA1ywvKXtedxIRmd4Y7BTXE
4w==}
engines: {node: '>=12'}
dev: true

/p-reduce/1.0.0:
resolution: {integrity: sha1-GMKw3ZNqRpClKfgjH1ig/bakffo=}
engines: {node: '>=4'}
dev: true

/p-timeout/1.2.1:
resolution: {integrity: sha1-XrOzU7f86Z8QGhA4iAuwVOu+o4Y=}
engines: {node: '>=4'}
dependencies:
p-finally: 1.0.0
dev: true

/p-timeout/2.0.1:
resolution: {integrity: sha512-
88em58dDVB/KzPEx1X0N3LwFfYZPyDc4B6eF38M1rk9VTZMbxXXgjugz8mmwpS9Ox4BDZ+t6t3QP5+/gazw
eIA==}
engines: {node: '>=4'}
dependencies:
p-finally: 1.0.0
dev: true

/p-try/2.2.0:
resolution: {integrity: sha512-
R4nPAVTAU0B9D35/Gk3uJf/7XYbQcyohSKdvAxIRSNghFl4e71hVoGnBNQz9cWaXxO2I10KTC+3jMdvvoKw
6dQ==}
engines: {node: '>=6'}
dev: true

/package-json/6.5.0:
  resolution: {integrity: sha512-
k3bdm2n25tkyxcjSKzB5x8kfVxlMdgsbPr0GkZcwHsLpba6cBjqCt1KlcChKEvxHIcTB1FVMuwoijZ26xex5MQ==
}
  engines: {node: '>=8'}
  dependencies:
    got: 9.6.0
    registry-auth-token: 4.2.1
    registry-url: 5.1.0
    semver: 6.3.0
  dev: true

/parent-module/1.0.1:
  resolution: {integrity: sha512-
GQ2EWRpQV8/o+Aw8YqtfZZPfNRWZYkbidE9k5rpl/hC3vtHHBfGm2Ifi6qWV+coDGkrUKZAxE3Lot5kcsRlh+
g==}
   engines: {node: '>=6'}
  dependencies:
    callsites: 3.1.0
  dev: true

/parse-json/2.2.0:
  resolution: {integrity: sha1-9ID0BDTvgHQfhGkJn43qGPVaTck=}
  engines: {node: '>=0.10.0'}
  dependencies:
    error-ex: 1.3.2
  dev: true

/path-exists/2.1.0:
  resolution: {integrity: sha1-D+tsZPD8UY2adU3V77YscCJ2H0s=}
  engines: {node: '>=0.10.0'}
  dependencies:
    pinkie-promise: 2.0.1
  dev: true

/path-is-absolute/1.0.1:
  resolution: {integrity: sha1-F0uSaHNVNP+8es5r9TpanhtcX18=}
  engines: {node: '>=0.10.0'}
  dev: true

/path-key/2.0.1:
  resolution: {integrity: sha1-QRyttXTFoUDTpLGRDUDYDMn0C0A=}
  engines: {node: '>=4'}
  dev: true

/path-key/3.1.1:
  resolution: {integrity: sha512-

ojmeN0qd+y0jszEtoY48r0Peq5dwMEkIlCOu6Q5f41lfkswXuKtYrhgoTpLnyIcHm24Uhqx+5Tqm2InSwLhE6Q==
}
  engines: {node: '>=8'}
  dev: true

 /path-parse/1.0.7:
  resolution:
 {integrity: sha512-
LDJzPVEEEPR+y48z93A0Ed0yXb8pAByGWo/k5YYdYgpY2/2EsOsksJrq7lOHxryrVOn1ejG6oAp8ahvOIQD8sw==}
  dev: true

 /path-type/1.1.0:
  resolution: {integrity: sha1-WcRPfuSR2nBNpBXaWkBwuk+P5EE=}
  engines: {node: '>=0.10.0'}
  dependencies:
    graceful-fs: 4.2.9
    pify: 2.3.0
    pinkie-promise: 2.0.1
  dev: true

 /path-type/4.0.0:
  resolution: {integrity: sha512-
gDKb8aZMDeD/tZWs9P6+q0J9Mwkdl6xMV8TjnGP3qJVJ06bdMgkbBlLU8IdfOsIsFz2BW1rNVT3XuNEl8zPAvw==}
  engines: {node: '>=8'}
  dev: true

 /peek-readable/4.0.2:
  resolution: {integrity: sha512-
9fMaz6zoxw9ypO1KZy5RDJgSupEtu0Q+g/OqqsVHX3rKGR8qehRLYzsFARZ4bVvdvfknKiXvuDbkMnO1g6cRpQ==}
  engines: {node: '>=8'}
  dev: true

 /pend/1.2.0:
  resolution: {integrity: sha1-elfrVQpng/kRUzH89GY9XI4AelA=}
  dev: true

 /picocolors/1.0.0:
  resolution: {integrity: sha512-
1fygroTLlHu66zi26VoTDv8yRgm0Fccecssto+MhsZ0D/DGW2sm8E8AjW7NU5VVTRt5GxbeZ5qBuJr+HyLYkjQ==}
  dev: true

 /picomatch/2.3.1:
   resolution: {integrity: sha512-
JU3teHTNjmE2VCGFzuY8EXzCDVwEqB2a8fsIvwaStHhAWJEeVd1o1QD80CU6+ZdEXXSLbSsuLwJjkCBWq

RQUVA==}
  engines: {node: '>=8.6'}
  dev: true

/pify/2.3.0:
  resolution: {integrity: sha1-7RQaasBDqEnqWISY59yosVMw6Qw=}
  engines: {node: '>=0.10.0'}
  dev: true

/pify/3.0.0:
  resolution: {integrity: sha1-5aSs0sEB/fPZpNB/DbxNtJ3SgXY=}
  engines: {node: '>=4'}
  dev: true

/pify/4.0.1:
  resolution: {integrity: sha512-
uB80kBFb/tfd68bVleG9T5GGsGPjJrLAUpR5PZIrhBnIaRTQRjqdJSsIKkOP6OAIFbj7GOrcudc5pNjZ+geV2g==}
  engines: {node: '>=6'}
  dev: true

/pinkie-promise/2.0.1:
  resolution: {integrity: sha1-ITXW36ejWMBprJsXh3YogihFD/o=}
  engines: {node: '>=0.10.0'}
  dependencies:
    pinkie: 2.0.4
  dev: true

/pinkie/2.0.4:
  resolution: {integrity: sha1-clVrgM+g1IqXToDnckjoDtT3+HA=}
  engines: {node: '>=0.10.0'}
  dev: true

/png2icons/2.0.1:
  resolution: {integrity: sha512-
GDEQJr8OG4e6JMp7mABtXFSEpgJa1CCpbQiAR+EjhkHJHnUL9zPPtbOrjsMD8gUbikgv3j7x404b0YJsV3aVF
A==}
   hasBin: true
  dev: true

/postcss/8.4.5:
  resolution: {integrity: sha512-
jBDboWM8qpaqwkMwItqTQTiFikhs/67OYVvblFFTM7MrZjt6yMKd6r2kgXizEbTTljacm4NldIlZnhbjr84QYg==
}
  engines: {node: ^10 || ^12 || >=14}
  dependencies:
    nanoid: 3.2.0
    picocolors: 1.0.0
    source-map-js: 1.0.2

dev: true

/prebuild-install/6.1.4:
resolution: {integrity: sha512-
Z4vpywnK1lBg+zdPCVCsKq0xO66eEV9rWo2zrROGGiRS4JtueBOdlB1FnY8lcy7JsUud/Q3ijUxyWN26Ika0vQ==}
engines: {node: '>=6'}
hasBin: true
dependencies:
detect-libc: 1.0.3
expand-template: 2.0.3
github-from-package: 0.0.0
minimist: 1.2.5
mkdirp-classic: 0.5.3
napi-build-utils: 1.0.2
node-abi: 2.30.1
npmlog: 4.1.2
pump: 3.0.0
rc: 1.2.8
simple-get: 3.1.0
tar-fs: 2.1.1
tunnel-agent: 0.6.0
dev: true

/prepend-http/1.0.4:
resolution: {integrity: sha1-1PRWKwzjaW5BrFLQ4ALlemNdxtw=}
engines:
{node: '>=0.10.0'}
dev: true

/prepend-http/2.0.0:
resolution: {integrity: sha1-6SQ0v6XqjBn0HN/UAddBo8gZ2Jc=}
engines: {node: '>=4'}
dev: true

/process-nextick-args/2.0.1:
resolution: {integrity: sha512-
3ouUOpQhtgrbOa17J7+uxOTpITYWaGP7/AhoR3+A+/1e9skrzelGi/dXzEYyvbxubEF6Wn2ypscTKiKJFFn1ag==}
dev: true

/proto-list/1.2.4:
resolution: {integrity: sha1-IS1b/hMYMGpCD2QCuOJv85ZHqEk=}
dev: true

/pseudomap/1.0.2:
resolution: {integrity: sha1-8FKijacOYYkX7wqKw0wa5aaChrM=}
dev: true

/pump/3.0.0:
  resolution: {integrity: sha512-
LwZy+p3SFs1Pytd/jYct4wpv49HiYCqd9Rlc5ZVdk0V+8Yzv6jR5Blk3TRmPL1ft69TxP0IMZGJ+WPFU2BFhww
==}
  dependencies:
    end-of-stream: 1.4.4
    once: 1.4.0
  dev: true

/pupa/2.1.1:
  resolution: {integrity: sha512-
l1jNAspIBSFqbT+y+5FosojNpVpF94nlI+wDUpqP9enwOTfHx9f0gh5nB96vl+6yTpsJsypeNrwfzPrKuHB41A==}
  engines: {node: '>=8'}
  dependencies:
    escape-goat: 2.1.1
  dev: true

/query-string/5.1.1:

  resolution: {integrity: sha512-
gjWOsm2SoGlgLEdAGt7a6slVOk9mGiXmPFMqrEhLQ68rhQuBnpfs3+EmlvqKyxnCo9/PPlF+9MtY02S1aFg+Jw
==}
  engines: {node: '>=0.10.0'}
  dependencies:
    decode-uri-component: 0.2.0
    object-assign: 4.1.1
    strict-uri-encode: 1.1.0
  dev: true

/queue-microtask/1.2.3:
  resolution: {integrity: sha512-
NuaNSa6flKT5JaSYQzJok04JzTL1CA6aGhv5rfLW3PgqA+M2ChpZQnAC8h8i4ZFkBS8X5RqkDBHA7r4hej3K9
A==}
  dev: true

/quick-lru/5.1.1:
  resolution: {integrity: sha512-
WuyALRjWPDGtt/wzJiadO5AXY+8hZ80hVpe6MyivgraREW751X3SbhRvG3eLKOYN+8VEvqLcf3wdnt44Z4S4
SA==}
  engines: {node: '>=10'}
  dev: true

/rc/1.2.8:
  resolution: {integrity: sha512-
y3bGgqKj3QBdxLbLkomlohkvsA8gdAiUQlSBJnBhfn+BPxg4bc62d8TcBW15wavDfgexCgccckhcZvywyQYPOw
==}
  hasBin: true
  dependencies:

```
    deep-extend: 0.6.0
    ini: 1.3.8
    minimist: 1.2.5
    strip-json-comments: 2.0.1
  dev: true

 /read-chunk/3.2.0:
  resolution: {integrity: sha512-
CEjy9LCzhmD7nUpJ1oVOE6s/hBkejlcJEgLQHVnQznOSilOPb+kpKktlLfFDK3/WP43+F80xkUTM2VOkYoSYv
Q==}
   engines: {node: '>=6'}
  dependencies:
    pify: 4.0.1
    with-open-file: 0.1.7
  dev: true

 /read-pkg-up/1.0.1:
  resolution: {integrity: sha1-nWPBMnbAZZGNV/ACpX9AobZD+wI=}
  engines: {node: '>=0.10.0'}
  dependencies:
    find-up: 1.1.2
    read-pkg: 1.1.0
  dev: true

 /read-pkg/1.1.0:
  resolution: {integrity: sha1-9f+qXs0pyzHAR0vKfXVra7KePyg=}
  engines: {node: '>=0.10.0'}
  dependencies:
    load-json-file: 1.1.0
    normalize-package-data: 2.5.0
    path-type: 1.1.0
  dev: true

 /readable-stream/2.3.7:
  resolution: {integrity: sha512-
Ebho8K4jIbHAxnuxi7o42OrZgF/ZTNcsZj6nRKyUmkhLFq8CHItp/fy6hQZuZmP/n3yZ9VBUbp4zz/mX8hmYPw=
=}
  dependencies:
    core-util-is: 1.0.3
    inherits: 2.0.4
    isarray: 1.0.0
    process-nextick-args: 2.0.1
    safe-buffer: 5.1.2
    string_decoder: 1.1.1
    util-deprecate: 1.0.2
  dev: true

 /readable-stream/3.6.0:
```

resolution:
{integrity: sha512-
BViHy7LKeTz4oNnkcLJ+lVSL6vpiFeX6/d3oSH8zCW7UxP2onchk+vTGB143xuFjHS3deTgkKoXXymXqymiIdA==}
engines: {node: '>= 6'}
dependencies:
inherits: 2.0.4
string_decoder: 1.3.0
util-deprecate: 1.0.2
dev: true

/readable-web-to-node-stream/3.0.2:
resolution: {integrity: sha512-
ePeK6cc1EcKLEhJFt/AebMCLL+GgSKhuygrZ/GLaKZYEecIgIECf4UaUuaByiGtzckwR4ain9VzUh95T1exYGw==}
engines: {node: '>=8'}
dependencies:
readable-stream: 3.6.0
dev: true

/readdirp/3.6.0:
resolution: {integrity: sha512-
hOS089on8RduqdbhvQ5Z37A0ESjsqz6qnRcffsMU3495FuTdqSm+7bhJ29JvIOsBDEEnan5DPu9t3To9VRlMzA==}
engines: {node: '>=8.10.0'}
dependencies:
picomatch: 2.3.1
dev: true

/redent/1.0.0:
resolution: {integrity: sha1-z5Fqsf1fHxbfsggi3W7H9zDCr94=}
engines: {node: '>=0.10.0'}
dependencies:
indent-string: 2.1.0
strip-indent: 1.0.1
dev: true

/registry-auth-token/4.2.1:
resolution: {integrity: sha512-
6gkSb4U6aWJB4SF2ZvLb76yCBjcvufXBqvvEx1HbmKPkutswjW1xNVRY0+daljIYRbogN7O0etYSlbiaEQyMyw==}
engines: {node: '>=6.0.0'}
dependencies:
rc: 1.2.8
dev: true

/registry-url/5.1.0:
resolution: {integrity: sha512-

8acYXXTI0AkQv6RAOjE3vOaIXZkT9wo4LOFbBKYQEEnnMNBpKqdUrI6S4NT0KPIo/WVvJ5tE/X5LF/TQUf0ekw==}
  engines: {node: '>=8'}
  dependencies:
    rc: 1.2.8
  dev: true

/repeating/2.0.1:
  resolution: {integrity: sha1-UhTFOpJtNVJwdSf7q0FdvAjQbdo=}
  engines: {node: '>=0.10.0'}
  dependencies:
    is-finite: 1.1.0
  dev: true

/replace-ext/2.0.0:
  resolution: {integrity: sha512-UszKE5KVK6JvyD92nzMn9cDapSk6w/CaFZ96CnmDMUqH9oowfxF/ZjRITD25H4DnOQClLA4/j7jLGXXLVKxAug==}
  engines: {node: '>= 10'}
  dev: true

/resolve-alpn/1.2.1:
  resolution: {integrity: sha512-0a1F4l73/ZFZOakJnQ3FvkJ2+gSTQWz/r2KE5OdDY0TxPm5h4GkqkWWfM47T7HsbnOtcJVEF4epCVy6u7Q3K+g==}
  dev: true

/resolve-from/4.0.0:
  resolution: {integrity: sha512-pb/MYmXstAkysRFx8piNI1tGFNQIFA3vkE3Gq4EuA1dF6gHp/+vgZqsCGJapvy8N3Q+4o7FwvquPJcnZ7RYy4g==}
  engines: {node: '>=4'}
  dev: true

/resolve/1.22.0:
  resolution: {integrity: sha512-Hhtrw0nLeSrFQ7phPp4OOcVjLPIeMnRlr5mcnVuMe7M/7eBn98A3hmFRLoFo3DLZkivSYwhRUJTyPyWAk56WLw==}
  hasBin: true
  dependencies:
    is-core-module: 2.8.1
    path-parse: 1.0.7
    supports-preserve-symlinks-flag: 1.0.0
  dev: true

/responselike/1.0.2:
  resolution: {integrity: sha1-kYcg7ztjHFZCvgaPFa3lpG9Loec=}
  dependencies:

```
    lowercase-keys: 1.0.1
  dev: true

 /responselike/2.0.0:
  resolution: {integrity: sha512-
xH48u3FTB9VsZw7R+vvgaKeLKzT6jOogbQhEe/jewwnZgzPcnyWui2Av6JpoYZF/91uueC+lqhWqeURw5/qhCw
==}
  dependencies:
    lowercase-keys: 2.0.0
  dev: true

 /restore-cursor/3.1.0:
  resolution: {integrity: sha512-
l+sSefzHpj5qimhFSE5a8nufZYAM3sBSVMAPtYkmC+4EH2anSGaEMXSD0izRQbu9nfyQ9y5JrVmp7E8oZrUjv
A==}
  engines: {node: '>=8'}
  dependencies:
    onetime: 5.1.2
    signal-exit: 3.0.6
   dev: true

 /reusify/1.0.4:
  resolution: {integrity: sha512-
U9nH88a3fc/ekCF1l0/UP1IosiuIjyTh7hBvXVMHYgVcfGvt897Xguj2UOLDeI5BG2m7/uwyaLVT6fbtCwTyzw==
}
  engines: {iojs: '>=1.0.0', node: '>=0.10.0'}
  dev: true

 /rimraf/2.7.1:
  resolution: {integrity: sha512-
uWjbaKIK3T1OSVptzX7Nl6PvQ3qAGtKEtVRjRuazjfL3Bx5eI409VZSqgND+4UNnmzLVdPj9FqFJNPqBZFve4
w==}
  hasBin: true
  dependencies:
    glob: 7.2.0
  dev: true

 /roarr/2.15.4:
  resolution: {integrity: sha512-
CHhPh+UNHD2GTXNYhPWLnU8ONHdI+5DI+4EYIAOaiD63rHeYlZvyh8P+in5999TTSFgUYuKUAjzRI4mdh/
p+2A==}
  engines: {node: '>=8.0'}
  dependencies:
    boolean: 3.1.4
    detect-node: 2.1.0
    globalthis: 1.0.2
    json-stringify-safe: 5.0.1
    semver-compare: 1.0.0
```

sprintf-js: 1.1.2
dev: true

/rollup/2.66.1:
resolution: {integrity: sha512-crSgLhSkLMnKr4s9iZ/1qJCplgAgrRY+igWv8KhG/AjKOJ0YX/WpmANyn8oxrw+zenF3BXWDLa7Xl/QZISH+7w==}
engines: {node: '>=10.0.0'}
hasBin: true
optionalDependencies:
fsevents: 2.3.2
dev: true

/run-async/2.4.1:
resolution: {integrity: sha512-tvVnVv01b8c1RrA6Ep7JkStj85Guv/YrMcwqYQnwjsAS2cTmmPGBBjAjpCW7RrSodNSoE2/qg9O4bceNvUuDgQ==}
engines: {node: '>=0.12.0'}
dev: true

/run-parallel/1.2.0:
resolution: {integrity: sha512-5l4VyZR86LZ/lDxZTR6jqL8AFE2S0IFLMP26AbjsLVADxHdhB/c0GUsH+y39UfCi3dzz8OlQuPmnaJOMoDHQBA==}
dependencies:
queue-microtask: 1.2.3
dev: true

/rxjs/7.5.2:
resolution: {integrity: sha512-PwDt186XaL3QN5qXj/H9DGyHhP3/RYYgZZwqBv9Tv8rsAaiwFH1IsJJlcgD37J7UW5a6O67qX0KWKS3/pu0m4w==}
dependencies:
tslib: 2.3.1
dev: true

/sade/1.8.1:
resolution: {integrity: sha512-xal3CZX1Xlo/k4ApwCFrHVACi9fBqJ7V+mwhBsuf/1IOKbBy098Fex+Wa/5QMubw09pSZ/u8EY8PWgevJsXp1A==}
engines: {node: '>=6'}
dependencies:
mri: 1.2.0
dev: true

/safe-buffer/5.1.2:
resolution: {integrity: sha512-Gd2UZBJDkXlY7GbJxfsE8/nvKkUEU1G38c1siN6QP6a9PT9MmHB8GnpscSmMJSoF8LOIrt8ud/wPtojys4G6+g

==}
    dev: true

 /safe-buffer/5.2.1:
   resolution: {integrity: sha512-
rp3So07KcdmmKbGvgaNxQSJr7bGVSVk5S9Eq1F+ppbRo70+YeaDxkw5Dd8NPN+GD6bjnYm2VuPuCXmpuYvmCXQ==}
   dev: true

 /safer-buffer/2.1.2:
   resolution: {integrity: sha512-
YZo3K82SD7Riyi0E1EQPojLz7kpepnSQI9IyPbHHg1XXXevb5dJI7tpyN2ADxGcQbHG7vcyRHk0cbwqcQriUtg==}
   dev: true

 /sander/0.5.1:
   resolution: {integrity: sha1-dB4kXiMfB8r7b98PEzrfohalAq0=}
   dependencies:
     es6-promise: 3.3.1
     graceful-fs: 4.2.9
     mkdirp: 0.5.5
     rimraf: 2.7.1
   dev: true

 /seek-bzip/1.0.6:
   resolution: {integrity: sha512-
e1QtP3YL5tWww8uKaOCQ18UxIT2laNBXHjV/S2WYCiK4udiv8lkG89KRIoCjUagnAmCBurjF4zEVX2ByBbnCjQ==}
   hasBin: true
   dependencies:
     commander: 2.20.3
   dev: true

 /semver-compare/1.0.0:
   resolution: {integrity: sha1-De4hahyUGrN+nvsXiPavxf9VN/w=}
   dev: true

 /semver-diff/3.1.1:
   resolution: {integrity: sha512-
GX0Ix/CJcHyB8c4ykpHGIAvLyOwOobtM/8d+TQkAd81/bEjgPHrfba41Vpesr7jX/t8Uh+R3EX9eAS5be+jQYg==}
    engines: {node: '>=8'}
   dependencies:
     semver: 6.3.0
   dev: true

 /semver-regex/2.0.0:
   resolution: {integrity: sha512-

mUdIBBvdn0PLOeP3TEkMH7HHeUP3GjsXCwKarjv/kGmUFOYg1VqEemKhoQpWMu6X2I8kHeuVdGibLGkVK+/5Qw==}
  engines: {node: '>=6'}
  dev: true

/semver-truncate/1.1.2:
  resolution: {integrity: sha1-V/Qd5pcHpicJp+AQS6IRcQnqR+g=}
  engines: {node: '>=0.10.0'}
  dependencies:
    semver: 5.7.1
  dev: true

/semver/5.7.1:
  resolution: {integrity: sha512-sauaDf/PZdVgrLTNYHRtpXa1iRiKcaebiKQ1BJdpQlWH2lCvexQdX55snPFyK7QzpudqbCI0qXFfOasHdyNDGQ==}
  hasBin: true
  dev: true

/semver/6.3.0:
  resolution: {integrity: sha512-b39TBaTSfV6yBrapU89p5fKekE2m/NwnDocOVruQFS1/veMgdzuPcnOM34M6CwxW8jH/lxEa5rBoDeUwu5HHTw==}
  hasBin: true
  dev: true

/semver/7.3.5:
  resolution: {integrity: sha512-PoeGJYh8HK4BTO/a9Tf6ZG3veo/A7ZVsYrSA6J8ny9nb3B1VrpkuN+z9OE5wfE5p6H4LchYZsegiQgbJD94ZFQ==}
  engines: {node: '>=10'}
  hasBin: true
  dependencies:
    lru-cache: 6.0.0
  dev: true

/serialize-error/7.0.1:
  resolution: {integrity: sha512-8I8TjW5KMOKsZQTvoxjuSIa7foAwPWGOts+6o7sgjz41/qMD9VQHEDxi6PBvK2l0MXUmqZyNpUK+T2tQaaElvw==}
  engines: {node: '>=10'}
  dependencies:
    type-fest: 0.13.1
  dev: true

/set-blocking/2.0.0:
  resolution: {integrity: sha1-BF+XgtARrppoA93TgrJDkrPYkPc=}
  dev: true

/sharp/0.28.3:
  resolution: {integrity: sha512-
21GEP45Rmr7q2qcmdnjDkNP04Ooh5v0laGS5FDpojOO84D1DJwUijLiSq8XNNM6e8aGXYtoYRh3sVNdm8NodMA==}
  engines: {node: '>=10'}
  requiresBuild: true
  dependencies:
    color: 3.2.1
    detect-libc: 1.0.3
    node-addon-api: 3.2.1
    prebuild-install: 6.1.4
    semver: 7.3.5
    simple-get: 3.1.0
    tar-fs: 2.1.1
    tunnel-agent: 0.6.0
  dev: true

/shebang-command/1.2.0:
  resolution: {integrity: sha1-RKrGW2lbAzmJaMOfNj/uXer98eo=}
  engines: {node: '>=0.10.0'}
  dependencies:
    shebang-regex: 1.0.0
  dev: true

/shebang-command/2.0.0:
  resolution: {integrity: sha512-
kHxr2zZpYtdmrN1qDjrrX/Z1rR1kG8Dx+gkpK1G4eXmvXswmcE1hTWBWYUzlraYw1/yZp6YuDY77YtvbN0dmDA==}
  engines: {node: '>=8'}
  dependencies:
    shebang-regex: 3.0.0
  dev: true

/shebang-regex/1.0.0:
  resolution: {integrity: sha1-2kL0l0DAtC2yypcoVxyxkMmO/qM=}
  engines: {node: '>=0.10.0'}
  dev: true

/shebang-regex/3.0.0:
  resolution: {integrity: sha512-
7++dFhtcx3353uBaq8DDR4NuxBetBzC7ZQOhmTQInHEd6bSrXdiEyzCvG07Z44UYdLShWUyXt5M/yhz8ekcb1A==}
  engines: {node: '>=8'}
  dev: true

/signal-exit/3.0.6:
  resolution: {integrity: sha512-

sDl4qMFpijcGw22U5w63KmD3cZJfBuFlVNbVMKje2keoKML7X2UzWbc4XrmEbDwg0NXJc3yv4/ox7b+JWb57kQ==}
  dev: true

/simple-concat/1.0.1:
  resolution: {integrity: sha512-cSFtAPtRhljv69IK0hTVZQ+OfE9nePi/rtJmw5UjHeVyVroEqJXP1sFztKUy1qU+xvz3u/sfYJLa947b7nAN2Q==}
  dev: true

/simple-get/3.1.0:
  resolution: {integrity: sha512-bCR6cP+aTdScaQCnQKbPKtJOKDp/hj9EDLJo3Nw4y1QksqaovlW/bnptB6/c1e+qmNIDHRK+oXFDdEqBT8WzUA==}
    dependencies:
      decompress-response: 4.2.1
      once: 1.4.0
      simple-concat: 1.0.1
  dev: true

/simple-swizzle/0.2.2:
  resolution: {integrity: sha1-pNprY1/8zMoz9w0Xy5JZLeleVXo=}
  dependencies:
    is-arrayish: 0.3.2
  dev: true

/slash/3.0.0:
  resolution: {integrity: sha512-g9Q1haeby36OSStwb4ntCGGGaKsaVSjQ68fBxoQcutl5fS1vuY18H3wSt3jFyFtrkx+Kz0V1G85A4MyAdDMi2Q==}
  engines: {node: '>=8'}
  dev: true

/slash/4.0.0:
  resolution: {integrity: sha512-3dOsAHXXUkQTpOYcoAxLIorMTp4gIQr5IW3iVb7A7lFIp0VHhnynm9izx6TssdrIcVIESAlVjtnO2K8bg+Coew==}
  engines: {node: '>=12'}
  dev: true

/sorcery/0.10.0:
  resolution: {integrity: sha1-iukK19fLBfxZ8asMY3hF1cFaUrc=}
  hasBin: true
  dependencies:
    buffer-crc32: 0.2.13
    minimist: 1.2.5
    sander: 0.5.1
    sourcemap-codec: 1.4.8
  dev: true

/sort-keys-length/1.0.1:
  resolution: {integrity: sha1-nLb09OnkgVWmqgZx7dM2/xR5oYg=}
  engines: {node: '>=0.10.0'}
   dependencies:
    sort-keys: 1.1.2
  dev: true

/sort-keys/1.1.2:
  resolution: {integrity: sha1-RBttTTRnmPG05J6JIK37oOVD+a0=}
  engines: {node: '>=0.10.0'}
  dependencies:
    is-plain-obj: 1.1.0
  dev: true

/sort-keys/2.0.0:
  resolution: {integrity: sha1-ZYU1WEhh7JfXMNbPQYIuH1ZoQSg=}
  engines: {node: '>=4'}
  dependencies:
    is-plain-obj: 1.1.0
  dev: true

/source-map-js/1.0.2:
  resolution: {integrity: sha512-
R0XvVJ9WusLiqTCEiGCmICCMplcCkIwwR11mOSD9CR5u+IXYdiseeEuXCVAjS54zqwkLcPNnmU4OeJ6tUr
WhDw==}
  engines: {node: '>=0.10.0'}
  dev: true

/source-map/0.7.3:
  resolution: {integrity: sha512-
CkCj6giN3S+n9qrYiBTX5gystlENnRW5jZeNLHpe6aue+SrHcG5VYwujhW9s4dY31mEGsxBDrHR6oI69fTXsaQ
==}
  engines: {node: '>= 8'}
  dev: true

/sourcemap-codec/1.4.8:
  resolution: {integrity: sha512-
9NykojV5Uih4lgo5So5dtw+f0JgJX30KCNI8gwhz2J9A15wD0Ml6tjHKwf6fTSa6fAdVBdZeNOs9eJ71qCk8vA==
}
  dev: true

/spdx-correct/3.1.1:
  resolution: {integrity:
sha512-
cOYcUWwhCuHCXi49RhFRCyJEK3iPj1Ziz9DpViV3tbZOwXD49QzIN3MpOLJNxh2qwq2lJJZaKMVw9qNi4jT
C0w==}
  dependencies:

```
    spdx-expression-parse: 3.0.1
    spdx-license-ids: 3.0.11
  dev: true

 /spdx-exceptions/2.3.0:
  resolution: {integrity: sha512-
/tTrYOC7PPI1nUAgx34hUpqXuyJG+DTHJTnIULG4rDygi4xu/tfgmq1e1cIRwRzwZgo4NLySi+ricLkZkw4i5A==
}
  dev: true

 /spdx-expression-parse/3.0.1:
  resolution: {integrity: sha512-
cbqHunsQWnJNE6KhVSMsMeH5H/L9EpymbzqTQ3uLwNCLZ1Q481oWaofqH7nO6V07xlXwY6PhQdQ2IedWx
/ZK4Q==}
  dependencies:
    spdx-exceptions: 2.3.0
    spdx-license-ids: 3.0.11
  dev: true

 /spdx-license-ids/3.0.11:
  resolution: {integrity: sha512-
Ctl2BrFiM0X3MANYgj3CkygxhRmr9mi6xhejbdO960nF6EDJApTYpn0BQnDKlnNBULKiCN1n3w9EBkHK8Z
Wg+g==}
  dev: true

 /sprintf-js/1.1.2:
  resolution: {integrity: sha512-
VE0SOVEHCk7Qc8ulkWw3ntAzXuqf7S2lvwQaDLRnUeIEaKNQJzV6BwmLKhOqT61aGhfUMrXeaBk+oDGCz
vhcug==}
  dev: true

 /squeak/1.3.0:
  resolution: {integrity: sha1-MwRQN7ZDiLVnZ0uEMiplIQc5FsM=}
   engines: {node: '>=0.10.0'}
  dependencies:
    chalk: 1.1.3
    console-stream: 0.1.1
    lpad-align: 1.1.2
  dev: true

 /strict-uri-encode/1.1.0:
  resolution: {integrity: sha1-J5siXfHVgrH1TmWt3UNS4Y+qBxM=}
  engines: {node: '>=0.10.0'}
  dev: true

 /string-width/1.0.2:
  resolution: {integrity: sha1-EYvfW4zcUaKn5w0hHgfisLmxB9M=}
  engines: {node: '>=0.10.0'}
```

dependencies:
code-point-at: 1.1.0
is-fullwidth-code-point: 1.0.0
strip-ansi: 3.0.1
dev: true

/string-width/4.2.3:
resolution: {integrity: sha512-
wKyQRQpjJ0sIp62ErSZdGsjMJWsap5oRNihHhu6G7JVO/9jIB6UyevL+tXuOqrng8j/cxKTWyWUwvSTriiZz/g==
}
engines: {node: '>=8'}
dependencies:
emoji-regex: 8.0.0
is-fullwidth-code-point: 3.0.0
strip-ansi: 6.0.1
dev: true

/string_decoder/1.1.1:
resolution: {integrity: sha512-
n/ShnvDi6FHbbVfviro+WojiFzv+s8MPMHBczVePfUpDJLwoLT0ht1l4YwBCbi8pJAveEEdnkHyPyTP/mzRfwg==}
dependencies:

safe-buffer: 5.1.2
dev: true

/string_decoder/1.3.0:
resolution: {integrity: sha512-
hkRX8U1WjJFd8LsDJ2yQ/wWWxaopEsABU1XfkM8A+j0+85JAGppt16cr1Whg6KIbb4okU6Mql6BOj+uup/wKeA==}
dependencies:
safe-buffer: 5.2.1
dev: true

/strip-ansi/3.0.1:
resolution: {integrity: sha1-ajhfuIU9lS1f8F0Oiq+UJ43GPc8=}
engines: {node: '>=0.10.0'}
dependencies:
ansi-regex: 2.1.1
dev: true

/strip-ansi/6.0.1:
resolution: {integrity: sha512-
Y38VPSHcqkFrCpFnQ9vuSXmquuv5oXOKpGeT6aGrr3o3Gc9AlVa6JBfUSOCnbxGGZF+/0ooI7KrPuUSztUdU5A==}
engines: {node: '>=8'}
dependencies:
ansi-regex: 5.0.1

dev: true

/strip-bom/2.0.0:
resolution: {integrity: sha1-YhmoVhZSBJHzV4i9vxRHqZx+aw4=}
engines: {node: '>=0.10.0'}
dependencies:
is-utf8: 0.2.1
dev: true

/strip-dirs/2.1.0:
resolution: {integrity: sha512-
JOCxOeKLm2CAS73y/U4ZeZPTkE+gNVCzKt7Eox84Iej1LT/2pTWYpZKJuxwQpvX1LiZb1xokNR7RLfuBAa7
T3g==}
dependencies:
is-natural-number:
4.0.1
dev: true

/strip-eof/1.0.0:
resolution: {integrity: sha1-u0P/VZim6wXYm1n80SnJgzE2Br8=}
engines: {node: '>=0.10.0'}
dev: true

/strip-indent/1.0.1:
resolution: {integrity: sha1-DHlipq3vp7vUrDZkYKY4VSrhoKI=}
engines: {node: '>=0.10.0'}
hasBin: true
dependencies:
get-stdin: 4.0.1
dev: true

/strip-indent/3.0.0:
resolution: {integrity: sha512-
laJTa3Jb+VQpaC6DseHhF7dXVqHTfJPCRDaEbid/drOhgitgYku/letMUqOXFoWV0zIIUbjpdH2t+tYj4bQMRQ==
}
engines: {node: '>=8'}
dependencies:
min-indent: 1.0.1
dev: true

/strip-json-comments/2.0.1:
resolution: {integrity: sha1-PFMZQukIwml8DsNEhYwobHygpgo=}
engines: {node: '>=0.10.0'}
dev: true

/strip-outer/1.0.1:
resolution: {integrity: sha512-
k55yxKHwaXnpYGsOzg4Vl8+tDrWylxDEpknGjhTiZB8dFRU5rTo9CAzeycivxV3s+zlTKwrs6WxMxR95n26kwg

==}
  engines: {node: '>=0.10.0'}
  dependencies:
    escape-string-regexp: 1.0.5
  dev: true

/strtok3/6.2.4:
  resolution: {integrity:
sha512-
GO8IcFF9GmFDvqduIspUBwCzCbqzegyVKIsSymcMgiZKeCfrN9SowtUoi8+b59WZMAjIzVZic/Ft97+pynR3Iw
==}
  engines: {node: '>=10'}
  dependencies:
    '@tokenizer/token': 0.3.0
    peek-readable: 4.0.2
  dev: true

/supports-color/2.0.0:
  resolution: {integrity: sha1-U10EXOa2Nj+kARcIRimZXp3zJMc=}
  engines: {node: '>=0.8.0'}
  dev: true

/supports-color/7.2.0:
  resolution: {integrity: sha512-
qpCAvRl9stuOHveKsn7HncJRvv501qIacKzQlO/+Lwxc9+0q2wLyv4Dfvt80/DPn2pqOBsJdDiogXGR9+OvwRw=
=}
  engines: {node: '>=8'}
  dependencies:
    has-flag: 4.0.0
  dev: true

/supports-preserve-symlinks-flag/1.0.0:
  resolution: {integrity: sha512-
ot0WnXS9fgdkgIcePe6RHNk1WA8+muPa6cSjeR3V8K27q9BB1rTE3R1p7Hv0z1ZyAc8s6Vvv8DIyWf681MAt0
w==}
  engines: {node: '>= 0.4'}
  dev: true

/svelte-check/2.3.0_svelte@3.46.3:
  resolution: {integrity: sha512-
SBKdJyUmxzPmJf/ZPqDSQOoa9JzOcgEpV7u3UaYcgVn7fA0veZ3FA5JgLU8KYtf84Gp6guBVcrC7XKLjJa5SX
Q==}
  hasBin: true
  peerDependencies:
    svelte: ^3.24.0
  dependencies:
    chokidar: 3.5.3
    fast-glob: 3.2.11

import-fresh: 3.3.0
minimist: 1.2.5
picocolors: 1.0.0
sade: 1.8.1
source-map: 0.7.3
svelte: 3.46.3
svelte-preprocess: 4.10.2_svelte@3.46.3+typescript@4.5.5
typescript: 4.5.5
transitivePeerDependencies:
- '@babel/core'
- coffeescript
- less
- node-sass
- postcss
- postcss-load-config
- pug
- sass
- stylus
- sugarss
dev: true

/svelte-hmr/0.14.9_svelte@3.46.3:
resolution: {integrity: sha512-
bKE9+4qb4sAnA+TKHiYurUl970rjA0XmlP9TEP7K/ncyWz3m81kA4HOgmlZK/7irGK7gzZlaPDI3cmf8fp/+tg==
}
peerDependencies:
svelte: '>=3.19.0'
dependencies:
svelte: 3.46.3
dev: true

/svelte-preprocess/4.10.2_svelte@3.46.3+typescript@4.5.5:
resolution: {integrity: sha512-
aPpkCreSo8EL/y8kJSa1trhiX0oyAtTjlNNM7BNjRAsMJ8Yy2LtqHt0zyd4pQPXt+D4PzbO3qTjjio3kwOxDlA==}
engines: {node:
'>= 9.11.2'}
requiresBuild: true
peerDependencies:
'@babel/core': ^7.10.2
coffeescript: ^2.5.1
less: ^3.11.3 || ^4.0.0
node-sass: '*'
postcss: ^7 || ^8
postcss-load-config: ^2.1.0 || ^3.0.0
pug: ^3.0.0
sass: ^1.26.8
stylus: ^0.55.0
sugarss: ^2.0.0

svelte: ^3.23.0
typescript: ^4.5.2
peerDependenciesMeta:
'@babel/core':
optional: true
coffeescript:
optional: true
less:
optional: true
node-sass:
optional: true
postcss:
optional: true
postcss-load-config:
optional: true
pug:
optional: true
sass:
optional: true
stylus:
optional: true
sugarss:
optional: true
typescript:
optional: true
dependencies:
'@types/pug': 2.0.6
'@types/sass': 1.43.1
detect-indent: 6.1.0
magic-string: 0.25.7
sorcery: 0.10.0
strip-indent: 3.0.0
svelte: 3.46.3
typescript: 4.5.5
dev: true

/svelte/3.46.3:
resolution: {integrity: sha512-mTOXvv74CVQqJHqoIZDprVfRKVVmYNadXP0VKnOEA54223kLGCr1nMrifS4Zx29qMt/xRB38Eq1D7dDH/fM8fQ==}
engines: {node: '>= 8'}
dev: true

/tar-fs/2.1.1:
resolution: {integrity: sha512-V0r2Y9scmbDRLCNex/+hYzvp/zyYjvFbHPNgVTKfQvVrb6guiE/fxP+XblDNR011utopbkex2nM4dHNV6GDsng==}
dependencies:

```
    chownr: 1.1.4
    mkdirp-classic: 0.5.3
    pump: 3.0.0
    tar-stream: 2.2.0
  dev: true

 /tar-stream/1.6.2:
  resolution: {integrity: sha512-
rzS0heiNf8Xn7/mpdSVVSMAWAoy9bfb1WOTYC78Z0UQKeKa/CWS8FOq0lKGNa8DWKAn9gxjCvMLYc5PG
XYlK2A==}
  engines: {node: '>= 0.8.0'}
  dependencies:
    bl: 1.2.3
    buffer-alloc: 1.2.0
    end-of-stream: 1.4.4
    fs-constants: 1.0.0
    readable-stream: 2.3.7
    to-buffer: 1.1.1
    xtend: 4.0.2
  dev: true

 /tar-stream/2.2.0:
  resolution: {integrity: sha512-
ujeqbceABgwMZxEJnk2HDY2DlnUZ+9oEcb1KzTVfYHio0UE6dG71n60d8D2I4qNvleWrrXpmjpt7vZeF1LnMZ
Q==}
   engines: {node: '>=6'}
  dependencies:
    bl: 4.1.0
    end-of-stream: 1.4.4
    fs-constants: 1.0.0
    inherits: 2.0.4
    readable-stream: 3.6.0
  dev: true

 /temp-dir/1.0.0:
  resolution: {integrity: sha1-CnwOom06Oa+n4OvqnB/AvE2qAR0=}
  engines: {node: '>=4'}
  dev: true

 /tempfile/2.0.0:
  resolution: {integrity: sha1-awRGhWqbERTRhW/8vlCczLCXcmU=}
  engines: {node: '>=4'}
  dependencies:
    temp-dir: 1.0.0
    uuid: 3.4.0
  dev: true

 /through/2.3.8:
```

resolution: {integrity: sha1-DdTJ/6q8NXlgsbckEV1+Doai4fU=}
dev: true

/timed-out/4.0.1:
resolution: {integrity: sha1-8y6srFoXW+ol1/q1Zas+2HQe9W8=}
engines: {node: '>=0.10.0'}
dev: true

/tmp/0.0.33:
resolution: {integrity: sha512-jRCJlojKnZ3addtTOjdIqoRuPEKBvNXcGYqzO6zWZX8KfKEpnGY5jfggJQ3EjKuu8D4bJRr0y+cYJFmYbImXGw==}
engines: {node: '>=0.6.0'}
dependencies:
os-tmpdir: 1.0.2
dev: true

/to-buffer/1.1.1:
resolution:
{integrity: sha512-lx9B5iv7msuFYE3dytT+KE5tap+rNYw+K4jVkb9R/asAb+pbBSM17jtunHplhBe6RRJdZx3Pn2Jph24O32mOVg==}
dev: true

/to-readable-stream/1.0.0:
resolution: {integrity: sha512-Iq25XBt6zD5npPhlLVXGFN3/gyR2/qODcKNNyTMd4vbm39HUaOiAM4PMq0eMVC/Tkxz+Zjdsc55g9yyz+Yq00Q==}
engines: {node: '>=6'}
dev: true

/to-regex-range/5.0.1:
resolution: {integrity: sha512-65P7iz6X5yEr1cwcgvQxbbIw7Uk3gOy5dIdtZ4rDveLqhrdJP+Li/Hx6tyK0NEb+2GCyneCMJiGqrADCSNk8sQ==}
engines: {node: '>=8.0'}
dependencies:
is-number: 7.0.0
dev: true

/token-types/4.1.1:
resolution: {integrity: sha512-hD+QyuUAyI2spzsI0B7gf/jJ2ggR4RjkAo37j3StuePhApJUwcWDjnHDOFdIWYSwNR28H14hpwm4EI+V1Ted1w==}
engines: {node: '>=10'}
dependencies:
'@tokenizer/token': 0.3.0
ieee754: 1.2.1

```
  dev: true

 /trim-newlines/1.0.0:
  resolution: {integrity: sha1-WIeWa7WCpFA6QetST301ARgVphM=}
  engines: {node: '>=0.10.0'}
  dev: true

 /trim-repeated/1.0.0:
  resolution:
 {integrity: sha1-42RqLqTokTEr9+rObPsFOAvAHCE=}
  engines: {node: '>=0.10.0'}
  dependencies:
    escape-string-regexp: 1.0.5
  dev: true

 /tslib/2.3.1:
  resolution: {integrity: sha512-
77EbyPPpMz+FRFRuAFlWMtmgUWGe9UOG2Z25NqCwiIjRhOf5iKGuzSe5P2w1laq+FkRy4p+PCuVkJSGkzTE
KVw==}
  dev: true

 /tunnel-agent/0.6.0:
  resolution: {integrity: sha1-J6XeoGs2sEoKmWZ3SykIaPD8QP0=}
  dependencies:
    safe-buffer: 5.2.1
  dev: true

 /type-fest/0.13.1:
  resolution: {integrity: sha512-
34R7HTnG0XIJcBSn5XhDd7nNFPRcXYRZrBB2O2jdKqYODldSzBAqzsWoZYYvduky73toYS/ESqxPvkDf/F0X
Mg==}
  engines: {node: '>=10'}
  dev: true

 /type-fest/0.20.2:
  resolution: {integrity: sha512-
Ne+eE4r0/iWnpAxD852z3A+N0Bt5RN//NjJwRd2VFHEmrywxf5vsZlh4R6lixl6B+wz/8d+maTSAkN1FIkI3LQ==
}
  engines: {node: '>=10'}
  dev: true

 /type-fest/0.21.3:
  resolution: {integrity: sha512-
t0rzBq87m3fVcduHDUFhKmyyX+9eo6WQjZvf51Ea/M0Q7+T374Jp1aUiyUl0GKxp8M/OETVHSDvmkyPgvX+
X2w==}
  engines: {node: '>=10'}
```

dev: true

/typedarray-to-buffer/3.1.5:
resolution: {integrity: sha512-zdu8XMNEDepKKR+XYOXAVPtWui0ly0NtohUscw+UmaHiAWT8hrV1rr//H6V+0DvJ3OQ19S979M0laLfX8rm82Q==}
dependencies:
is-typedarray: 1.0.0
dev: true

/typescript/4.5.5:
resolution: {integrity: sha512-TCTIul70LyWe6IJWT8QSYeA54WQe8EjQFU4wY52Fasj5UKx88LNYKCgBEHcOMOrFF1rKGbD8v/xcNWVUq9SymA==}
engines: {node: '>=4.2.0'}
hasBin: true
dev: true

/unbzip2-stream/1.4.3:
resolution: {integrity: sha512-mlExGW4w71ebDJviH16lQLtZS32VKqsSfk80GCfUlwT/4/hNRFsoscrF/c++9xinkMzECL1uL9DDwXqFWkruPg==}
dependencies:
buffer: 5.7.1
through: 2.3.8
dev: true

/unique-string/2.0.0:
resolution: {integrity: sha512-uNaeirEPvpZWSgzwsPGtU2zVSTrn/8L5q/IexZmH0eH6SA73CmAA5U4GwORTxQAZs95TAXLNqeLoPPNO5gZfWg==}
engines: {node: '>=8'}
dependencies:
crypto-random-string: 2.0.0
dev: true

/universalify/2.0.0:
resolution: {integrity: sha512-hAZsKq7Yy11Zu1DE0OzWjw7nnLZmJZYTDZZyEFHZdUhV8FkH5MCfoU1XMaxXovpyW5nq5scPqq0ZDP9Zyl04oQ==}
engines: {node: '>= 10.0.0'}
dev: true

/update-notifier/5.1.0:
resolution: {integrity: sha512-ItnICHbeMh9GqUy31hFPrD1kcuZ3rpxDZbf4KUDavXwS0bW5m7SLbDQpGX3UYr072cbrF5hFUs3r5tUsPwjfHw==}
engines: {node: '>=10'}

  dependencies:
    boxen: 5.1.2
    chalk: 4.1.2
    configstore: 5.0.1
    has-yarn: 2.1.0
    import-lazy: 2.1.0
    is-ci: 2.0.0
    is-installed-globally: 0.4.0
    is-npm: 5.0.0
    is-yarn-global: 0.3.0
    latest-version: 5.1.0
    pupa: 2.1.1
    semver: 7.3.5
    semver-diff: 3.1.1
    xdg-basedir: 4.0.0
  dev: true

/url-parse-lax/1.0.0:
  resolution: {integrity: sha1-evjzA2Rem9eaJy56FKxovAYJ2nM=}
  engines: {node: '>=0.10.0'}
  dependencies:
    prepend-http: 1.0.4
  dev: true

/url-parse-lax/3.0.0:
  resolution: {integrity: sha1-FrXK/Afb42dsGxmZF3gj1lA6yww=}
  engines: {node: '>=4'}
  dependencies:
    prepend-http: 2.0.0
  dev: true

/url-to-options/1.0.1:
   resolution: {integrity: sha1-FQWgOiiaSMvXpDTvuu7FBV9WM6k=}
  engines: {node: '>= 4'}
  dev: true

/util-deprecate/1.0.2:
  resolution: {integrity: sha1-RQ1Nyfpw3nMnYvvS1KKJgUGaDM8=}
  dev: true

/uuid/3.4.0:
  resolution: {integrity: sha512-
HjSDRw6gZE5JMggctHBcjVak08+KEVhSIiDzFnT9S9aegmp85S/bReBVTb4QTFaRNptJ9kuYaNhnbNEOkbKb/
A==}
  deprecated: Please upgrade to version 7 or higher. Older versions may use Math.random() in certain
circumstances, which is known to be problematic. See https://v8.dev/blog/math-random for details.
  hasBin: true
  dev: true

/validate-npm-package-license/3.0.4:
  resolution: {integrity: sha512-
DpKm2Ui/xN7/HQKCtpZxoRWBhZ9Z0kqtygG8XCgNQ8ZlDnxuQmWhj566j8fN4Cu3/JmbhsDo7fcAJq4s9h27E
w==}
  dependencies:
    spdx-correct: 3.1.1
    spdx-expression-parse: 3.0.1
  dev: true

/vite/2.7.13:
  resolution: {integrity: sha512-
Mq8et7f3aK0SgSxjDNfOAimZGW9XryfHRa/uV0jseQSilg+KhYDSoNb9h1rknOy6SuMkvNDLKCYAYYUMCE
+IgQ==}
   engines: {node: '>=12.2.0'}
  hasBin: true
  peerDependencies:
    less: '*'
    sass: '*'
    stylus: '*'
  peerDependenciesMeta:
    less:
      optional: true
    sass:
      optional: true
    stylus:
      optional: true
  dependencies:
    esbuild: 0.13.15
    postcss: 8.4.5
    resolve: 1.22.0
    rollup: 2.66.1
  optionalDependencies:
    fsevents: 2.3.2
  dev: true

/wcwidth/1.0.1:
  resolution: {integrity: sha1-8LDc+RW8X/FSivrbLA4XtTLaL+g=}
  dependencies:
    defaults: 1.0.3
  dev: true

/which/1.3.1:
  resolution: {integrity: sha512-
HxJdYWq1MTIQbJ3nw0cqssHoTNU267KlrDuGZ1WYlxDStUtKUhOaJmh112/TZmHxxUfuJqPXSOm7tDyas0O
SIQ==}
  hasBin: true
  dependencies:

isexe: 2.0.0
dev: true

/which/2.0.2:
resolution: {integrity: sha512-BLI3Tl1TW3Pvl70l3yq3Y64i+awpwXqsGBYWkkqMtnbXgrMD+yj7rhW0kuEDxzJaYXGjEW5ogapKNMEKNMjibA==}
engines: {node: '>= 8'}
hasBin: true
dependencies:
isexe: 2.0.0
dev:
true

/wide-align/1.1.5:
resolution: {integrity: sha512-eDMORYaPNZ4sQIuuYPDHdQvf4gyCF9rEEV/yPxGfwPkRodwEgiMUUXTx/dex+Me0wxx53S+NgUHaP7y3MGlDmg==}
dependencies:
string-width: 1.0.2
dev: true

/widest-line/3.1.0:
resolution: {integrity: sha512-NsmoXalsWVDMGupxZ5R08ka9flZjjiLvHVAWYOKtiKM8ujtZWr9cRffak+uSE48+Ob8ObalXpwyeUiyDD6QFgg==}
engines: {node: '>=8'}
dependencies:
string-width: 4.2.3
dev: true

/with-open-file/0.1.7:
resolution: {integrity: sha512-ecJS2/oHtESJ1t3ZfMI3B7KIDKyfN0O16miWxdn30zdh66Yd3LsRFebXZXq6GU4xfxLf6nVxp9kIqElb5fqczA==}
engines: {node: '>=6'}
dependencies:
p-finally: 1.0.0
p-try: 2.2.0
pify: 4.0.1
dev: true

/wrap-ansi/7.0.0:
resolution: {integrity: sha512-YVGIj2kamLSTxw6NsZjoBxfSwsn0ycdesmc4p+Q21c5zPuZ1pl+NfxVdxPtdHvmNVOQ6XSYG4AUtyt/Fi7D16Q==}
engines: {node: '>=10'}
dependencies:
ansi-styles: 4.3.0

```
    string-width: 4.2.3
    strip-ansi: 6.0.1
  dev: true

 /wrappy/1.0.2:
   resolution: {integrity: sha1-tSQ9jz7BqjXxNkYFvA0QNuMKtp8=}
  dev: true

 /write-file-atomic/3.0.3:
  resolution: {integrity: sha512-
AvHcyZ5JnSfq3ioSyjrBkH9yW4m7Ayk8/9My/DD9onKeu/94fwrMocemO2QAJFAlnnDN+ZDS+ZjAR5ua1/PV/Q
==}
  dependencies:
    imurmurhash: 0.1.4
    is-typedarray: 1.0.0
    signal-exit: 3.0.6
    typedarray-to-buffer: 3.1.5
  dev: true

 /xdg-basedir/4.0.0:
  resolution: {integrity: sha512-
PSNhEJDejZYV7h50BohL09Er9VaIefr2LMAf3OEmpCkjOi34eYyQYAXUTjEQtZJTKcF0E2UKTh+osDLsgNim
9Q==}
  engines: {node: '>=8'}
  dev: true

 /xtend/4.0.2:
  resolution: {integrity: sha512-
LKYU1iAXJXUgAXn9URjiu+MWhyUXHsvfp7mcuYm9dSUKK0/CjtrUwFAxD82/mCWbtLsGjFIad0wIsod4zrT
AEQ==}
  engines: {node: '>=0.4'}
  dev: true

 /yallist/2.1.2:
  resolution: {integrity: sha1-HBH5IY8HYImkfdUS+TxmmaaoHVI=}
  dev: true

 /yallist/4.0.0:
  resolution: {integrity: sha512-
3wdGidZyq5PB084XLES5TpOSRA3wjXAlIWMhum2kRcv/41Sn2emQ0dycQW4uZXLejwKvg6EsvbdlVL+FYEc
t7A==}
   dev: true

 /yauzl/2.10.0:
  resolution: {integrity: sha1-x+sXyT4RLLEIb6bY5R+wZnt5pfk=}
  dependencies:
    buffer-crc32: 0.2.13
    fd-slicer: 1.1.0
```

dev: true

/zopflipng-bin/6.0.1:
resolution: {integrity: sha512-
+aybvXv/xafL6I67uSH5yLHrSy4/OaSOV9tniw4yZFIHpINXUcctVHE/WzHxOONrL2GHzJ8Fd4iDrNyaS6TVbg=
=}
engines: {node: '>=10'}
hasBin: true
requiresBuild: true
dependencies:
bin-build: 3.0.0
bin-wrapper: 4.1.0
logalot: 2.1.0
dev: true

Found in path(s):
* /opt/cola/permits/1463527128_1667742204.2126267/0/freethinkel-yamux-v0-1-1-0-g502720e-1-tar-gz/freethinkel-yamux-502720e/pnpm-lock.yaml
No license file was found, but licenses were detected in source scan.

*/@font-face{font-family:tabler-icons;font-style:normal;font-weight:400;src:url(fonts/tabler-icons.eot);src:url(fonts/tabler-icons.eot?#iefix) format("embedded-opentype"),url(fonts/tabler-icons.woff2) format("woff2"),url(fonts/tabler-icons.woff) format("woff"),url(fonts/tabler-icons.ttf) format("truetype"),url(fonts/tabler-icons.svg#tabler-icons) format("svg")}@media screen and (-webkit-min-device-pixel-ratio:0){@font-face{font-family:tabler-icons;src:url(fonts/tabler-icons.svg#tabler-icons) format("svg")}}.ti{font-family:tabler-icons!important;speak:none;font-style:normal;font-weight:400;font-variant:normal;text-transform:none;line-height:1;-webkit-font-smoothing:antialiased;-moz-osx-font-smoothing:grayscale}.ti-2fa:before{content:"\eca0"}.ti-3d-cube-sphere:before{content:"\ecd7"}.ti-a-b:before{content:"\ec36"}.ti-access-point:before{content:"\ed1b"}.ti-access-point-off:before{content:"\ed1a"}.ti-accessible:before{content:"\eba9"}.ti-activity:before{content:"\ed23"}.ti-ad:before{content:"\ea02"}.ti-ad-2:before{content:"\ef1f"}.ti-adjustments:before{content:"\ea03"}.ti-adjustments-alt:before{content:"\ec37"}.ti-adjustments-horizontal:before{content:"\ec38"}.ti-aerial-lift:before{content:"\edfe"}.ti-affiliate:before{content:"\edff"}.ti-alarm:before{content:"\ea04"}.ti-alert-circle:before{content:"\ea05"}.ti-alert-octagon:before{content:"\ecc6"}.ti-alert-triangle:before{content:"\ea06"}.ti-alien:before{content:"\ebde"}.ti-align-center:before{content:"\ea07"}.ti-align-justified:before{content:"\ea08"}.ti-align-left:before{content:"\ea09"}.ti-align-right:before{content:"\ea0a"}.ti-ambulance:before{content:"\ebf5"}.ti-anchor:before{content:"\eb76"}.ti-angle:before{content:"\ef20"}.ti-antenna-bars-1:before{content:"\ecc7"}.ti-antenna-bars-2:before{content:"\ecc8"}.ti-antenna-bars-3:before{content:"\ecc9"}.ti-antenna-bars-4:before{content:"\ecca"}.ti-antenna-bars-5:before{content:"\eccb"}.ti-aperture:before{content:"\eb58"}.ti-apple:before{content:"\ef21"}.ti-apps:before{content:"\ebb6"}.ti-archive:before{content:"\ea0b"}.ti-arrow-back:before{content:"\ea0c"}.ti-arrow-back-up:before{content:"\eb77"}.ti-arrow-bar-down:before{content:"\ea0d"}.ti-arrow-bar-left:before{content:"\ea0e"}.ti-arrow-bar-right:before{content:"\ea0f"}.ti-arrow-bar-to-down:before{content:"\ec88"}.ti-arrow-bar-to-left:before{content:"\ec89"}.ti-arrow-bar-to-right:before{content:"\ec8a"}.ti-arrow-bar-to-up:before{content:"\ec8b"}.ti-arrow-bar-up:before{content:"\ea10"}.ti-arrow-big-down:before{content:"\edda"}.ti-arrow-big-left:before{content:"\eddb"}.ti-arrow-big-right:before{content:"\eddc"}.ti-arrow-big-top:before{content:"\eddd"}.ti-arrow-bottom-bar:before{content:"\ed98"}.ti-arrow-bottom-circle:before{content:"\ed99"}.ti-arrow-bottom-square:before{content:"\ed9a"}.ti-arrow-bottom-tail:before{content:"\ed9b"}.ti-arrow-

down:before{content:"\ea16"}.ti-arrow-down-circle:before{content:"\ea11"}.ti-arrow-down-left:before{content:"\ea13"}.ti-arrow-down-left-circle:before{content:"\ea12"}.ti-arrow-down-right:before{content:"\ea15"}.ti-arrow-down-right-circle:before{content:"\ea14"}.ti-arrow-forward:before{content:"\ea17"}.ti-arrow-forward-up:before{content:"\eb78"}.ti-arrow-left:before{content:"\ea19"}.ti-arrow-left-bar:before{content:"\ed9c"}.ti-arrow-left-circle:before{content:"\ea18"}.ti-arrow-left-square:before{content:"\ed9d"}.ti-arrow-left-tail:before{content:"\ed9e"}.ti-arrow-loop-left:before{content:"\ed9f"}.ti-arrow-loop-right:before{content:"\eda0"}.ti-arrow-narrow-down:before{content:"\ea1a"}.ti-arrow-narrow-left:before{content:"\ea1b"}.ti-arrow-narrow-right:before{content:"\ea1c"}.ti-arrow-narrow-up:before{content:"\ea1d"}.ti-arrow-ramp-left:before{content:"\ed3c"}.ti-arrow-ramp-right:before{content:"\ed3d"}.ti-arrow-right:before{content:"\ea1f"}.ti-arrow-right-bar:before{content:"\eda1"}.ti-arrow-right-circle:before{content:"\ea1e"}.ti-arrow-right-square:before{content:"\eda2"}.ti-arrow-right-tail:before{content:"\eda3"}.ti-arrow-top-bar:before{content:"\eda4"}.ti-arrow-top-circle:before{content:"\eda5"}.ti-arrow-top-square:before{content:"\eda6"}.ti-arrow-top-tail:before{content:"\eda7"}.ti-arrow-up:before{content:"\ea25"}.ti-arrow-up-circle:before{content:"\ea20"}.ti-arrow-up-left:before{content:"\ea22"}.ti-arrow-up-left-circle:before{content:"\ea21"}.ti-arrow-up-right:before{content:"\ea24"}.ti-arrow-up-right-circle:before{content:"\ea23"}.ti-arrow-wave-left-down:before{content:"\eda8"}.ti-arrow-wave-left-up:before{content:"\eda9"}.ti-arrow-wave-right-down:before{content:"\edaa"}.ti-arrow-wave-right-up:before{content:"\edab"}.ti-arrows-diagonal:before{content:"\ea27"}.ti-arrows-diagonal-2:before{content:"\ea26"}.ti-arrows-double-ne-sw:before{content:"\edde"}.ti-arrows-double-nw-se:before{content:"\eddf"}.ti-arrows-double-se-nw:before{content:"\ede0"}.ti-arrows-double-sw-ne:before{content:"\ede1"}.ti-arrows-down:before{content:"\edad"}.ti-arrows-down-up:before{content:"\edac"}.ti-arrows-horizontal:before{content:"\eb59"}.ti-arrows-join:before{content:"\edaf"}.ti-arrows-join-2:before{content:"\edae"}.ti-arrows-left:before{content:"\edb1"}.ti-arrows-left-down:before{content:"\ee00"}.ti-arrows-left-right:before{content:"\edb0"}.ti-arrows-maximize:before{content:"\ea28"}.ti-arrows-minimize:before{content:"\ea29"}.ti-arrows-right:before{content:"\edb3"}.ti-arrows-right-down:before{content:"\ee01"}.ti-arrows-right-left:before{content:"\edb2"}.ti-arrows-sort:before{content:"\eb5a"}.ti-arrows-split:before{content:"\edb5"}.ti-arrows-split-2:before{content:"\edb4"}.ti-arrows-up:before{content:"\edb7"}.ti-arrows-up-down:before{content:"\edb6"}.ti-arrows-up-left:before{content:"\ee02"}.ti-arrows-up-right:before{content:"\ee03"}.ti-arrows-vertical:before{content:"\eb5b"}.ti-artboard:before{content:"\ea2a"}.ti-aspect-ratio:before{content:"\ed30"}.ti-at:before{content:"\ea2b"}.ti-atom:before{content:"\eb79"}.ti-atom-2:before{content:"\ebdf"}.ti-award:before{content:"\ea2c"}.ti-backhoe:before{content:"\ed86"}.ti-backspace:before{content:"\ea2d"}.ti-ball-american-football:before{content:"\ee04"}.ti-ball-basketball:before{content:"\ec28"}.ti-ball-bowling:before{content:"\ec29"}.ti-ball-football:before{content:"\ee06"}.ti-ball-football-off:before{content:"\ee05"}.ti-ball-tennis:before{content:"\ec2a"}.ti-ball-volleyball:before{content:"\ec2b"}.ti-ban:before{content:"\ea2e"}.ti-bandage:before{content:"\eb7a"}.ti-barcode:before{content:"\ebc6"}.ti-basket:before{content:"\ebe1"}.ti-battery:before{content:"\ea34"}.ti-battery-1:before{content:"\ea2f"}.ti-battery-2:before{content:"\ea30"}.ti-battery-3:before{content:"\ea31"}.ti-battery-4:before{content:"\ea32"}.ti-battery-automotive:before{content:"\ee07"}.ti-battery-charging:before{content:"\ea33"}.ti-battery-off:before{content:"\ed1c"}.ti-bed:before{content:"\eb5c"}.ti-bell:before{content:"\ea35"}.ti-bell-minus:before{content:"\ede2"}.ti-bell-off:before{content:"\ece9"}.ti-bell-plus:before{content:"\ede3"}.ti-bell-ringing:before{content:"\ed07"}.ti-bell-ringing-2:before{content:"\ede4"}.ti-bell-x:before{content:"\ede5"}.ti-bike:before{content:"\ea36"}.ti-binary:before{content:"\ee08"}.ti-biohazard:before{content:"\ecb8"}.ti-blockquote:before{content:"\ee09"}.ti-bluetooth:before{content:"\ea37"}.ti-bluetooth-connected:before{content:"\ecea"}.ti-bluetooth-off:before{content:"\eceb"}.ti-bold:before{content:"\eb7b"}.ti-bolt:before{content:"\ea38"}.ti-bolt-off:before{content:"\ecec"}.ti-bone:before{content:"\edb8"}.ti-book:before{content:"\ea39"}.ti-bookmark:before{content:"\ea3a"}.ti-bookmark-off:before{content:"\eced"}.ti-

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1.2114 github.com/igm/sockjs-go/v3 3.0.2

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1.2115 github.com/blugelabs/ice 1.0.0

1.2115.1 Available under license :

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1.2116 github.com/blevesearch/mmap-go 1.0.4

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1.2117 github.com/blevesearch/vellum 1.0.7

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1.2118 github.com/wk8/go-ordered-map 1.0.0

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1.2119 sockjs 3.0.2

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1.2120 blugelabs-ice 1.0.0

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1.2121 blevesearch-mmap-go 1.0.4

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1.2126 go-capability 0.4.0

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model, to give anyone who possesses the object code either (1) a
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1.2128 ssl-config-core_2.13 0.4.3

1.2128.1 Available under license :

No license file was found, but licenses were detected in source scan.

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Automatic-Module-Name: ssl.config.core
Bnd-LastModified: 1616500617128
Bundle-Description: ssl-config-core
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.txt;descri
ption=Apache-2.0
Bundle-ManifestVersion: 2
Bundle-Name: ssl-config-core
Bundle-SymbolicName: com.typesafe.sslconfig
Bundle-Vendor: Lightbend
Bundle-Version: 0.4.3
Created-By: 1.8.0_272 (Oracle Corporation)
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Implementation-Vendor: Lightbend
Implementation-Vendor-Id: com.typesafe
Implementation-Version: 0.4.3
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3,3)",scala.concurrent.duration;version="[2.13,3)",scala.reflect;vers
 ion="[2.13,3)",scala.runtime;version="[2.13,3)",scala.runtime.java8;v
ersion="[2.13,3)",scala.util;version="[2.13,3)",scala.util.control;ve
rsion="[2.13,3)",scala.util.matching;version="[2.13,3)",scala.util.pa
rsing.combinator;version="[1.1,2)",scala.util.parsing.input;version="
[1.1,2)"
Private-Package: com.typesafe.sslconfig.*
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version>=1.8))
"
Specification-Title: ssl-config-core
Specification-Vendor: Lightbend
Specification-Version: 0.4.3
Tool: Bnd-5.1.2.202007211702

Found in path(s):
* /opt/cola/permits/1472651401_1668436725.5751777/0/ssl-config-core-2-13-0-4-3-jar/META-INF/MANIFEST.MF

1.2129 purell 1.2.0

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1.2130 github.com/tchap/go-patricia/v2 2.3.1

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1.2131 distlib 0.3.6

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A. HISTORY OF THE SOFTWARE
==========

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands

as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes

2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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==========

Distutils2 Contributors

==========

The Distutils2 project was started by Tarek Ziad and is currently maintained by ric Araujo. Many people have contributed to the project.

distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order, and welcome into the Fellowship of the Packaging!

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1.2139 postcss-nesting 10.2.0

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1.2140 postcss-custom-properties 12.1.10

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1.2143 loader-utils 2.0.4

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1.2146 postcss-merge-longhand 5.1.7

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1.2147 godirwalk 1.17.0

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1.2148 log4j-layout-template-json 2.18.0

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1.2153 gogo-status 1.1.1

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1.2154 snmp-4j 3.7.4

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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/security/Priv3DES.java
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```
/*_##############################################################################
 _##
 _##  SNMP4J - SimpleOIDTextFormat.java
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Found in path(s):
* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/util/SimpleOIDTextFormat.java
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```
/*_##############################################################################
 _##
 _##  SNMP4J - SnmpEngineIdProvider.java
 _##
```

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Found in path(s):
* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/cfg/SnmpEngineIdProvider.java
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```
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 _##
 _##  SNMP4J - MPv2c.java
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Found in path(s):
* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/mp/MPv2c.java
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```
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 _##
 _##  SNMP4J - RequestStatistics.java
```

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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/mp/RequestStatistics.java
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 _##  SNMP4J - MutablePDU.java
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Found in path(s):
* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/MutablePDU.java
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```
/*_##############################################################################
 _##
```

```
 _##  SNMP4J - MessageLength.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/transport/MessageLength.java
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 _##  SNMP4J - UsmUser.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/security/UsmUser.java
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 _##  SNMP4J - PrivAES128.java
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Found in path(s):
* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/security/PrivAES128.java
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 _##  SNMP4J - AuthSHA2.java
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Found in path(s):
* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/security/AuthSHA2.java

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 _##  SNMP4J - DefaultTlsTmSecurityCallback.java
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Found in path(s):
* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/transport/tls/DefaultTlsTmSecurityCallback.java
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 _##  SNMP4J - SubIndexInfoImpl.java
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Found in path(s):

* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/smi/SubIndexInfoImpl.java
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 _##  SNMP4J - PrivAES.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/security/PrivAES.java
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 _##  SNMP4J - TreeListener.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/util/TreeListener.java
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 _##  SNMP4J - AssignableFromString.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/smi/AssignableFromString.java
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 _##  SNMP4J - CertifiedTarget.java
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 _##  SNMP4J - EngineBootsCounterFile.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/cfg/EngineBootsCounterFile.java
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 _##  SNMP4J - DictionaryOIDTextFormat.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/util/DictionaryOIDTextFormat.java
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 _##
 _##  SNMP4J - AuthSHA.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/security/AuthSHA.java
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 _##  SNMP4J - MPv3.java
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 _##  SNMP4J - CounterEvent.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/event/CounterEvent.java
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 _##  SNMP4J - TLSTM.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/transport/TLSTM.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/smi/GenericAddress.java
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 _##  SNMP4J - AbstractTarget.java
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 _##  SNMP4J - DefaultTimeoutModel.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/TransportMapping.java
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 _##  SNMP4J - AuthHMAC384SHA512.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/security/AuthHMAC384SHA512.java
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 _##
 _##  SNMP4J - DTLSTM.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/transport/DTLSTM.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/util/WorkerTask.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/transport/tls/DefaultSSLEngineConfiguration.java
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Found in path(s):
* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/security/UsmSecurityParameters.java
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```
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 _##  SNMP4J - MessageDispatcher.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/MessageDispatcher.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/util/PDUFactory.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/security/TsmSecurityStateReference.java
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 _##  SNMP4J - SSLEngineConfigurator.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/transport/tls/SSLEngineConfigurator.java
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```
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 _##  SNMP4J - TimedMessageID.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/security/SecretOctetString.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/transport/AbstractTransportServerThread.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/smi/OID.java
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 _##
 _##  SNMP4J - DummyTransport.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/transport/TransportMappings.java
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jar/org/snmp4j/security/AuthenticationProtocol.java
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```

Found in path(s):
* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/util/SimpleVariableTextFormat.java
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```
/*_##############################################################################
 _##
 _##  SNMP4J - TransportListener.java
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```

Found in path(s):
* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/transport/TransportListener.java
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```
/*_##############################################################################
 _##
 _##  SNMP4J - UsmUserTable.java
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```

Found in path(s):
* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/security/UsmUserTable.java
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```
/*_##############################################################################
 _##
 _##  SNMP4J - DirectUserTarget.java
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```

Found in path(s):
* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/DirectUserTarget.java
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```
/*_##############################################################################
 _##
 _##  SNMP4J - CommunityTarget.java
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```

Found in path(s):
* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/CommunityTarget.java
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```
/*_##############################################################################
 _##
 _##  SNMP4J - PduBuilder.java
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Found in path(s):
* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/fluent/PduBuilder.java
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```
/*_##############################################################################
 _##
 _##  SNMP4J - NonStandardSecurityProtocol.java
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```

Found in path(s):
* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/security/nonstandard/NonStandardSecurityProtocol.java
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```
/*_##############################################################################
 _##
 _##  SNMP4J - PrivAESWith3DESKeyExtension.java
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```

Found in path(s):
* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/security/nonstandard/PrivAESWith3DESKeyExtension.java
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```
/*_##############################################################################
 _##
 _##  SNMP4J - AuthenticationFailureListener.java
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Found in path(s):
* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/event/AuthenticationFailureListener.java
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```
/*_##############################################################################
 _##
 _##  SNMP4J - Salt.java
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Found in path(s):
* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/security/Salt.java
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```
/*_##############################################################################
 _##
 _##  SNMP4J - SecurityStateReference.java
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Found in path(s):
* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/security/SecurityStateReference.java
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```
/*_##############################################################################
 _##
 _##  SNMP4J - TransportStateReference.java
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Found in path(s):
* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/TransportStateReference.java
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```
/*_##############################################################################
 _##
 _##  SNMP4J - DefaultTcpTransportMapping.java
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```

Found in path(s):
* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/transport/DefaultTcpTransportMapping.java
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```
/*_##############################################################################
 _##
 _##  SNMP4J - ThreadFactory.java
 _##
```

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Found in path(s):
* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/util/ThreadFactory.java
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```
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 _##  SNMP4J - SnmpURI.java
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Found in path(s):
* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/uri/SnmpURI.java
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```
/*_##############################################################################
 _##
 _##  SNMP4J - MPv1.java
```

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Found in path(s):
* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/mp/MPv1.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/fluent/SnmpBuilder.java
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```
/*_##############################################################################
 _##
```

```
 _##  SNMP4J - module-info.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/module-info.java
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```
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 _##  SNMP4J - TlsX509CertifiedTarget.java
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Found in path(s):
* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/transport/tls/TlsX509CertifiedTarget.java
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```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
```

```
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <groupId>org.snmp4j</groupId>
  <artifactId>snmp4j</artifactId>
  <packaging>jar</packaging>
  <version>3.7.4</version>
  <properties>
    <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
    <project.build.resourceEncoding>UTF-8</project.build.resourceEncoding>
  </properties>
  <name>SNMP4J</name>
  <description>SNMP API for Java</description>
  <url>https://snmp4j.org</url>
  <developers>
    <developer>
      <name>Frank Fock</name>
      <email>fock@agentpp.com</email>
      <organization>AGENTPP</organization>
      <organizationUrl>https://agentpp.com</organizationUrl>
    </developer>
  </developers>
   <scm>
 <url>scm:git:git@snmp.app:snmp4j.git</url>
    <developerConnection>scm:git:git@snmp.app:snmp4j.git</developerConnection>
  </scm>
  <licenses>
    <license>
      <name>Apache 2</name>
      <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
      <distribution>repo</distribution>
    </license>
  </licenses>
  <organization>
    <name>SNMP4J.org</name>
    <url>https://snmp4j.org</url>
  </organization>
  <profiles>
    <profile>
      <id>default</id>
      <distributionManagement>
        <downloadUrl>https://snmp.app/dist</downloadUrl>
        <repository>
          <uniqueVersion>false</uniqueVersion>
          <id>oosnmpRepo</id>
          <name>snmp.app Repository</name>
          <url>dav:https://snmp.app/dist/release</url>
          <layout>default</layout>
        </repository>
```

```
        <snapshotRepository>
            <uniqueVersion>false</uniqueVersion>
          <id>oosnmpRepo</id>
          <name>snmp.app Snapshots</name>
          <url>dav:https://snmp.app/dist/snapshot</url>
          <layout>default</layout>
        </snapshotRepository>
      </distributionManagement>
      <build>
        <plugins>
          <plugin>
            <groupId>org.apache.maven.plugins</groupId>
            <artifactId>maven-jar-plugin</artifactId>
            <version>3.2.0</version>
            <configuration>
              <archive>
                <manifest>
                  <mainClass>org.snmp4j.tools.console.SnmpCommand</mainClass>
                </manifest>
              </archive>
            </configuration>
          </plugin>
          <plugin>
             <groupId>org.apache.maven.plugins</groupId>
            <artifactId>maven-assembly-plugin</artifactId>
            <version>3.3.0</version>
            <executions>
              <execution>
                <id>make-assembly</id>
                <phase>package</phase>
                <goals>
                  <goal>single</goal>
                </goals>
                <configuration>
                  <descriptors>
                    <descriptor>assembly.xml</descriptor>
                  </descriptors>
                </configuration>
              </execution>
            </executions>
          </plugin>
        </plugins>
      </build>
    </profile>
    <profile>
      <id>ossrh</id>
       <distributionManagement>
        <snapshotRepository>
```

```
            <id>ossrh</id>
            <url>https://oss.sonatype.org/content/repositories/snapshots</url>
        </snapshotRepository>
        <repository>
            <id>ossrh</id>
            <url>https://oss.sonatype.org/service/local/staging/deploy/maven2/</url>
        </repository>
    </distributionManagement>
    <build>
        <plugins>
            <plugin>
                <groupId>org.apache.maven.plugins</groupId>
                <artifactId>maven-gpg-plugin</artifactId>
                <version>1.6</version>
                <executions>
                    <execution>
                        <id>sign-artifacts</id>
                        <phase>verify</phase>
                        <goals>
                            <goal>sign</goal>
                        </goals>
                    </execution>
                </executions>
                <configuration>
                    <keyname>${gpg.keyname}</keyname>
                    <passphraseServerId>${gpg.keyname}</passphraseServerId>
                    <gpgArguments>
                        <arg>--pinentry-mode</arg>
                        <arg>loopback</arg>
                    </gpgArguments>
                </configuration>
            </plugin>
            <plugin>
                <groupId>org.sonatype.plugins</groupId>
                <artifactId>nexus-staging-maven-plugin</artifactId>
                <version>1.6.13</version>
                <extensions>true</extensions>
                <configuration>
                    <serverId>ossrh</serverId>
                    <nexusUrl>https://oss.sonatype.org/</nexusUrl>
                    <autoReleaseAfterClose>true</autoReleaseAfterClose>
                    <stagingProgressTimeoutMinutes>10</stagingProgressTimeoutMinutes>
                </configuration>
            </plugin>
        </plugins>
    </build>
  </profile>
</profiles>
```

```
<dependencies>
   <dependency>
      <groupId>junit</groupId>
      <artifactId>junit</artifactId>
      <version>4.13.2</version>
      <scope>test</scope>
   </dependency>
</dependencies>
<build>
   <outputDirectory>classes</outputDirectory>
   <extensions>
      <extension>
         <groupId>org.apache.maven.wagon</groupId>
         <artifactId>wagon-webdav-jackrabbit</artifactId>
         <version>3.3.4</version>
      </extension>
   </extensions>
   <plugins>
      <plugin>
         <groupId>org.apache.maven.plugins</groupId>
          <artifactId>maven-help-plugin</artifactId>
         <version>2.2</version>
      </plugin>
      <plugin>
         <groupId>org.apache.maven.plugins</groupId>
         <artifactId>maven-source-plugin</artifactId>
         <version>3.2.1</version>
         <configuration>
            <excludes>
               <exclude>src/test/*</exclude>
            </excludes>
         </configuration>
         <executions>
            <execution>
               <id>attach-sources</id>
               <phase>verify</phase>
               <goals>
                  <goal>jar-no-fork</goal>
               </goals>
            </execution>
         </executions>
      </plugin>
      <plugin>
         <groupId>org.apache.maven.plugins</groupId>
         <artifactId>maven-javadoc-plugin</artifactId>

<version>3.4.1</version>
         <executions>
```

```
            <execution>
                <id>attach-javadocs</id>
                <goals>
                    <goal>jar</goal>
                </goals>
            </execution>
        </executions>
        <configuration>
            <stylesheet>java</stylesheet>
            <doctitle>${project.name} ${project.version}</doctitle>
            <bottom>Copyright 2005-2022 Frank Fock (SNMP4J.org)</bottom>
            <windowtitle>${project.name} ${project.version}</windowtitle>
            <docfilessubdirs>true</docfilessubdirs>
            <excludePackageNames>org.snmp4j.test:org.snmp4j.test.tools.console</excludePackageNames>
            <show>protected</show>
            <version />
            <author />
            <encoding>UTF-8</encoding>
            <additionalOptions>-html5 -Xdoclint:-html</additionalOptions>
        </configuration>
    </plugin>
    <plugin>
        <groupId>org.apache.maven.plugins</groupId>
        <artifactId>maven-compiler-plugin</artifactId>
        <version>3.10.1</version>
        <configuration>
            <source>9</source>
            <target>9</target>
            <release>9</release>
            <encoding>UTF-8</encoding>
            <compilerArgument>-Xlint:all</compilerArgument>
        </configuration>
    </plugin>
    <plugin>
        <groupId>org.apache.maven.plugins</groupId>
        <artifactId>maven-jar-plugin</artifactId>
        <version>3.2.2</version>
        <configuration>
            <archive>
                <manifest>
                    <mainClass>org.snmp4j.tools.console.SnmpCommand</mainClass>
                </manifest>

            </archive>
            <excludes>
                <exclude>classes-test/**</exclude>
            </excludes>
        </configuration>
```

```
        </plugin>
        <plugin>
          <groupId>org.apache.maven.plugins</groupId>
          <artifactId>maven-assembly-plugin</artifactId>
          <version>3.3.0</version>
          <configuration>
            <descriptors>
              <descriptor>assembly.xml</descriptor>
            </descriptors>
          </configuration>
          <executions>
            <execution>
              <id>make-assembly</id>
              <phase>package</phase>
              <goals>
                <goal>single</goal>
              </goals>
            </execution>
          </executions>
        </plugin>
      </plugins>
    </build>
</project>
```

Found in path(s):
*
/opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/META-INF/maven/org.snmp4j/snmp4j/pom.xml
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```
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 _##
 _##  SNMP4J - TlsTransportMappingConfig.java
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Found in path(s):
* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/transport/tls/TlsTransportMappingConfig.java
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```
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 _##
 _##  SNMP4J - TlsTmSecurityCallbackProxy.java
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Found in path(s):
* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/transport/tls/TlsTmSecurityCallbackProxy.java
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 _##
 _##  SNMP4J - MultiThreadedMessageDispatcher.java
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Found in path(s):
* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/util/MultiThreadedMessageDispatcher.java
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 _##  SNMP4J - EnumerationIterator.java
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Found in path(s):
* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/util/EnumerationIterator.java
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 _##  SNMP4J - JavaLogFactory.java
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Found in path(s):
* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/log/JavaLogFactory.java
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```
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 _##  SNMP4J - DefaultThreadFactory.java
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Found in path(s):
* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/util/DefaultThreadFactory.java
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 _##
 _##  SNMP4J - AssignableFromLong.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/smi/AssignableFromLong.java
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 _##  SNMP4J - TableEvent.java
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Found in path(s):
* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/util/TableEvent.java
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```
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 _##
 _##  SNMP4J - Integer32.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/smi/Integer32.java
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 _##  SNMP4J - Variable.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/smi/Variable.java
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 _##  SNMP4J - SchedulerTask.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/util/SchedulerTask.java
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/*_##############################################################################
 _##
 _##  SNMP4J - PrivAES192With3DESKeyExtension.java
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Found in path(s):
* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/security/nonstandard/PrivAES192With3DESKeyExtension.java
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 _##  SNMP4J - EngineIdCacheSize.java
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Found in path(s):
* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/mp/EngineIdCacheSize.java
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 _##  SNMP4J - TransportType.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/transport/TransportType.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/event/AuthenticationFailureEvent.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/smi/AbstractVariable.java
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 _##  SNMP4J - ThreadPool.java
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```

Found in path(s):
* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/util/TreeUtils.java
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 _##  SNMP4J - VariableTextFormat.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/util/VariableTextFormat.java

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Found in path(s):
* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/transport/tls/PropertiesTlsTmSecurityCallback.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/smi/Counter64.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/log/LogProxy.java
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 _##  SNMP4J - PrivAES256With3DESKeyExtension.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/security/nonstandard/PrivAES256With3DESKeyExtension.java
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 _##  SNMP4J - SnmpEngineListener.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/event/SnmpEngineListener.java
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 _##  SNMP4J - LogAdapter.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/log/LogAdapter.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/event/ResponseEvent.java
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 _##  SNMP4J - DefaultCounterListener.java
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 _##  SNMP4J - AuthMD5.java
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 _##  SNMP4J - TLSTMUtil.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/transport/tls/TLSTMUtil.java
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 _##  SNMP4J - PduHandleCallback.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/mp/PduHandleCallback.java
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 _##  SNMP4J - SnmpUriResponse.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/CommandResponderEvent.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/util/ArgumentParser.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/security/AuthHMAC256SHA384.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/TimeoutModel.java
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```
/*_##############################################################################
 _##
 _##  SNMP4J - DefaultUdpTransportMapping.java
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Found in path(s):
* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/transport/DefaultUdpTransportMapping.java
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```
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 _##
 _##  SNMP4J - BERSerializable.java
```

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Found in path(s):
* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/asn1/BERSerializable.java
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Found in path(s):
* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/Snmp.java
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```
/*_##############################################################################
 _##
```

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 _##  SNMP4J - UsmUserEntry.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/security/UsmUserEntry.java
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```
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 _##  SNMP4J - CertifiedIdentity.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/CertifiedIdentity.java
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 _##  SNMP4J - SnmpCommand.java
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Found in path(s):
* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/tools/console/SnmpCommand.java
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 _##  SNMP4J - SecurityNameMapping.java
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Found in path(s):
* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/transport/tls/SecurityNameMapping.java

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 _##  SNMP4J - MessageException.java
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Found in path(s):
* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/MessageException.java
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```
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 _##  SNMP4J - PduHandle.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/mp/PduHandle.java
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 _##  SNMP4J - TimerFactory.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/util/TimerFactory.java
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 _##  SNMP4J - SecurityProtocol.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/security/SecurityProtocol.java
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 _##  SNMP4J - AssignableFromByteArray.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/smi/AssignableFromByteArray.java
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```
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 _##  SNMP4J - LogFactory.java
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Found in path(s):
* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/log/LogFactory.java
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 _##  SNMP4J - SnmpEngineEvent.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/event/SnmpEngineEvent.java
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 _##  SNMP4J - PDUv1.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/PDUv1.java
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 _##  SNMP4J - ByteArrayWindow.java
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Found in path(s):
* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/security/ByteArrayWindow.java
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options.des.y=Set the privacy protocol to be used to encrypt SNMPv3 messages. Valid values are DES, AES (AES128), AES192, AES256, AES192p, AES256p, and 3DES(DESEDE). The AES protocols that end with 'p' (for proprietary) are using a non-standardized key extension algorithm from 3DES.

Found in path(s):
* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/tools/console/help.properties
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 _##  SNMP4J - X509TlsTransportMappingConfig.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/transport/tls/X509TlsTransportMappingConfig.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/smi/DtlsAddress.java
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```
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 _##  SNMP4J - PrivAES256.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/security/PrivAES256.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/transport/AbstractSocketEntry.java
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```
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 _##
 _##  SNMP4J - PrivAES192.java
```

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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/security/PrivAES192.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/transport/tls/TlsTrustManager.java
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```
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```

```
 _##
 _##  SNMP4J - SocketTimeout.java
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Found in path(s):
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/smi/Counter32.java
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Found in path(s):
* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/smi/BitString.java
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 _##  SNMP4J - DecryptParams.java
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Found in path(s):
* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/security/DecryptParams.java

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 _##  SNMP4J - TLSTMExtendedTrustManagerFactory.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/transport/tls/TLSTMExtendedTrustManagerFactory.java
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 _##  SNMP4J - PDU.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/PDU.java
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 _##  SNMP4J - SMIConstants.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/smi/SMIConstants.java
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 _##  SNMP4J - USM.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/security/USM.java
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 _##  SNMP4J - AuthHMAC192SHA256.java
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Found in path(s):
* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/security/AuthHMAC192SHA256.java
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 _##  SNMP4J - TargetBuilder.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/fluent/TargetBuilder.java
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 _##  SNMP4J - User.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/User.java
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 _##  SNMP4J - ConnectionOrientedTransportMapping.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/transport/ConnectionOrientedTransportMapping.java
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 _##  SNMP4J - StatusInformation.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/mp/StatusInformation.java
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 _##  SNMP4J - Opaque.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/smi/Opaque.java
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 _##  SNMP4J - Address.java
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 _##  SNMP4J - WorkerPool.java
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```
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 _##
 _##  SNMP4J - UnsupportedAddressClassException.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/transport/UnsupportedAddressClassException.java
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* /opt/cola/permits/1479820248_1668845865.6077456/0/snmp4j-3-7-4-sources-jar/org/snmp4j/smi/TimeTicks.java
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```
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 _##
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1.2155 kerberos 1.18.3-6+deb11u3

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Found in path(s):
* /opt/cola/permits/1482466391_1669114990.4122345/0/simpleclient-common-0-16-0-2-jar/META-INF/maven/io.prometheus/simpleclient_common/pom.xml
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Manifest-Version: 1.0
Bnd-LastModified: 1655327905690
Build-Jdk: 11.0.15
Built-By: fabian
Bundle-Description: Common code used by various modules of the Simplecli
ent.
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Prometheus Java Simpleclient Common
Bundle-SymbolicName: io.prometheus.simpleclient_common
Bundle-Version: 0.16.0
Created-By: Apache Maven Bundle Plugin
Export-Package: io.prometheus.client.exporter.common;uses:="io.prometheu
s.client";version="0.16.0"
Import-Package: io.prometheus.client;version="[0.16,1)",io.prometheus.cl
ient.exemplars;version="[0.16,1)"
Tool: Bnd-2.1.0.20130426-122213

Found in path(s):
* /opt/cola/permits/1482466391_1669114990.4122345/0/simpleclient-common-0-16-0-2-jar/META-INF/MANIFEST.MF

1.2161 simpleclient_tracer_otel 0.16.0

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* /opt/cola/permits/1482466280_1669114991.878089/0/simpleclient-tracer-otel-0-16-0-sources-jar/META-INF/maven/io.prometheus/simpleclient_tracer_otel/pom.xml

1.2162 simpleclient_tracer_otel_agent 0.16.0

1.2162.1 Available under license :

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* /opt/cola/permits/1482466184_1669114988.9277027/0/simpleclient-tracer-otel-agent-0-16-0-sources-2-jar/META-INF/maven/io.prometheus/simpleclient_tracer_otel_agent/pom.xml

1.2163 simpleclient 0.16.0

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Found in path(s):
* /opt/cola/permits/1482466225_1669114997.6058185/0/simpleclient-0-16-0-sources-3-jar/META-INF/maven/io.prometheus/simpleclient/pom.xml
No license file was found, but licenses were detected in source scan.

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*
* Source: http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/jsr166e/DoubleAdder.java?revision=1.12
*/

Found in path(s):
* /opt/cola/permits/1482466225_1669114997.6058185/0/simpleclient-0-16-0-sources-3-jar/io/prometheus/client/DoubleAdder.java
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* /opt/cola/permits/1482466225_1669114997.6058185/0/simpleclient-0-16-0-sources-3-jar/io/prometheus/client/CKMSQuantiles.java

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*
* Source: http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/jsr166e/Striped64.java?revision=1.10
*/

Found in path(s):
* /opt/cola/permits/1482466225_1669114997.6058185/0/simpleclient-0-16-0-sources-3-jar/io/prometheus/client/Striped64.java

1.2164 uniseg 0.4.3

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1.2165 graphviz 1.2.7

1.2165.1 Available under license :

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/opt/cola/permits/1482999282_1682088542.1007454/0/stable-windows-10-msbuild-release-win32-graphviz-2-49-0-

win32-zip/Graphviz/bin/ANN.dll: binary file matches

Found in path(s):
* /bin/grep

1.2166 core-js-pure 3.26.0

1.2166.1 Available under license :

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1.2167 ansi-styles 6.2.1

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1.2168 org.apache.felix.cm.json 1.0.6

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1.2169 org.apache.servicemix.bundles.spring-security-crypto 5.3.3.RELEASE_2

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1.2170 jolokia-osgi 1.7.1

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Manifest-Version: 1.0
Bnd-LastModified: 1632063420031
Build-Jdk: 1.8.0_292
Built-By: roland
Bundle-Activator: org.jolokia.osgi.JolokiaActivator
Bundle-ClassPath: .,lib/json-simple-1.1.1.jar
Bundle-Description: Jolokia agent exposing JMX via HTTP/JSON
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Jolokia Agent
Bundle-SymbolicName: org.jolokia.osgi
Bundle-Version: 1.7.1
Created-By: Apache Maven Bundle Plugin
Embed-Dependency: json-simple;inline=false,jolokia-core;inline=true,jolo
kia-jsr160;inline=true
Embed-Directory: lib

Embedded-Artifacts: lib/json-simple-1.1.1.jar;g="com.googlecode.json-sim
ple";a="json-simple";v="1.1.1"
Export-Package: org.jolokia.osgi.security;uses:="javax.servlet.http,org.
jolokia.util,org.osgi.service.http,org.jolokia.restrictor,javax.managem
ent,org.osgi.framework,javax.security.auth.callback,javax.security.auth
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a.converter.object,org.jolokia.converter.json";version="1.7.1",org.jolo
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 ck,javax.security.auth.login,javax.servlet,javax.servlet.http,javax.xml
,javax.xml.datatype,javax.xml.parsers,org.jolokia.converter;version="[1
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version="1.7.1",org.jolokia.util;version="1.7.1",org.osgi.framework;ver
sion="[1.0.0,2.0.0)",org.osgi.service.cm;version="[1.0.0,2.0.0)";resolu
tion:=optional,org.osgi.service.http;version="[1.0.0,2.0.0)";resolution
:=optional,org.osgi.service.log;version="[1.0.0,2.0.0)",org.osgi.util.t
racker;version="[1.0.0,2.0.0)",org.w3c.dom,org.xml.sax
Tool: Bnd-1.50.0

Found in path(s):
* /opt/cola/permits/1483181352_1669147117.1267805/0/jolokia-osgi-1-7-1-jar/META-INF/MANIFEST.MF
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```
<project>
  <modelVersion>4.0.0</modelVersion>
  <groupId>com.googlecode.json-simple</groupId>
  <artifactId>json-simple</artifactId>
  <packaging>bundle</packaging>
  <name>JSON.simple</name>
  <version>1.1.1</version>
  <description>A simple Java toolkit for JSON</description>
  <url>http://code.google.com/p/json-simple/</url>
  <licenses>
    <license>
      <name>The Apache Software License, Version 2.0</name>
      <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
    </license>
```

```
</licenses>
<developers>
   <developer>
      <id>Yidong</id>
      <name>Yidong Fang</name>
      <roles>
         <role>architect</role>
         <role>developer</role>
      </roles>
      <timezone>+8</timezone>
   </developer>
</developers>
<scm>
   <connection>scm:svn:http://json-simple.googlecode.com/svn/trunk/</connection>
    <developerConnection>scm:svn:http://json-simple.googlecode.com/svn/trunk/</developerConnection>
   <url>http://json-simple.googlecode.com/svn/trunk/</url>
</scm>

<properties>
   <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
</properties>

<dependencies>
   <dependency>
      <groupId>junit</groupId>
      <artifactId>junit</artifactId>
      <version>4.10</version>
   </dependency>
</dependencies>

<build>
   <plugins>
      <plugin>
         <groupId>org.apache.felix</groupId>
         <artifactId>maven-bundle-plugin</artifactId>
         <version>2.3.6</version>
         <extensions>true</extensions>
      </plugin>
      <plugin>
         <groupId>org.apache.maven.plugins</groupId>
         <artifactId>maven-compiler-plugin</artifactId>
         <version>2.3.2</version>
         <configuration>

          <source>1.2</source>
           <target>1.2</target>
         </configuration>
      </plugin>
```

```
        <plugin>
          <groupId>org.apache.maven.plugins</groupId>
          <artifactId>maven-source-plugin</artifactId>
          <version>2.1.2</version>
          <executions>
            <execution>
              <id>attach-sources</id>
              <phase>verify</phase>
              <goals>
                <goal>jar-no-fork</goal>
              </goals>
            </execution>
          </executions>
        </plugin>
      </plugins>
    </build>

    <profiles>
      <profile>
        <id>release-sign-artifacts</id>
        <activation>
          <property>
            <name>performRelease</name>
            <value>true</value>
          </property>
        </activation>
        <build>
          <plugins>
            <plugin>
              <groupId>org.apache.maven.plugins</groupId>
               <artifactId>maven-gpg-plugin</artifactId>
              <version>1.4</version>
              <executions>
                <execution>
                  <id>sign-artifacts</id>
                  <phase>verify</phase>
                  <goals>
                    <goal>sign</goal>
                  </goals>
                </execution>
              </executions>
            </plugin>
          </plugins>
        </build>
      </profile>
    </profiles>

  </project>
```

Found in path(s):
* /opt/cola/permits/1483181352_1669147117.1267805/0/jolokia-osgi-1-7-1-jar/lib/json-simple-1-1-1-jar/META-INF/maven/com.googlecode.json-simple/json-simple/pom.xml
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 -->
```

Found in path(s):
* /opt/cola/permits/1483181352_1669147117.1267805/0/jolokia-osgi-1-7-1-jar/META-INF/maven/org.jolokia/jolokia-core/pom.xml
* /opt/cola/permits/1483181352_1669147117.1267805/0/jolokia-osgi-1-7-1-jar/META-INF/maven/org.jolokia/jolokia-osgi/pom.xml
* /opt/cola/permits/1483181352_1669147117.1267805/0/jolokia-osgi-1-7-1-jar/META-INF/maven/org.jolokia/jolokia-jsr160/pom.xml
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```
Manifest-Version: 1.0
Bnd-LastModified: 1332231819873
Build-Jdk: 1.6.0_26
Built-By: fangyidong
Bundle-Description: A simple Java toolkit for JSON
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: JSON.simple
Bundle-SymbolicName: com.googlecode.json-simple
Bundle-Version: 1.1.1
Created-By: Apache Maven Bundle Plugin
Export-Package: org.json.simple;uses:="org.json.simple.parser";version="
1.1.1",org.json.simple.parser;uses:="org.json.simple";version="1.1.1"
Tool: Bnd-1.50.0
```

Found in path(s):
* /opt/cola/permits/1483181352_1669147117.1267805/0/jolokia-osgi-1-7-1-jar/lib/json-simple-1-1-1-jar/META-

INF/MANIFEST.MF

1.2171 jolokia 1.7.1

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Manifest-Version: 1.0
Bnd-LastModified: 1332231819873
Build-Jdk: 1.6.0_26
Built-By: fangyidong
Bundle-Description: A simple Java toolkit for JSON
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: JSON.simple
Bundle-SymbolicName: com.googlecode.json-simple
Bundle-Version: 1.1.1
Created-By: Apache Maven Bundle Plugin
Export-Package: org.json.simple;uses:="org.json.simple.parser";version="
1.1.1",org.json.simple.parser;uses:="org.json.simple";version="1.1.1"
Tool: Bnd-1.50.0

Found in path(s):
* /opt/cola/permits/1483182720_1680760698.022917/0/jolokia-war-1-7-1-war/WEB-INF/lib/json-simple-1-1-1-jar/META-INF/MANIFEST.MF
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```

Found in path(s):
* /opt/cola/permits/1483182720_1680760698.022917/0/jolokia-war-1-7-1-war/META-INF/maven/org.jolokia/jolokia-war/pom.xml
* /opt/cola/permits/1483182720_1680760698.022917/0/jolokia-war-1-7-1-war/WEB-INF/lib/jolokia-jsr160-1-7-1-

jar/META-INF/maven/org.jolokia/jolokia-jsr160/pom.xml
* /opt/cola/permits/1483182720_1680760698.022917/0/jolokia-war-1-7-1-war/WEB-INF/lib/jolokia-core-1-7-1-jar/META-INF/maven/org.jolokia/jolokia-core/pom.xml
*
 /opt/cola/permits/1483182720_1680760698.022917/0/jolokia-war-1-7-1-war/WEB-INF/web.xml
No license file was found, but licenses were detected in source scan.


```
<project>
  <modelVersion>4.0.0</modelVersion>
  <groupId>com.googlecode.json-simple</groupId>
  <artifactId>json-simple</artifactId>
  <packaging>bundle</packaging>
  <name>JSON.simple</name>
  <version>1.1.1</version>
  <description>A simple Java toolkit for JSON</description>
  <url>http://code.google.com/p/json-simple/</url>
  <licenses>
    <license>
      <name>The Apache Software License, Version 2.0</name>
      <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
    </license>
  </licenses>
  <developers>
    <developer>
      <id>Yidong</id>
      <name>Yidong Fang</name>
      <roles>
        <role>architect</role>
        <role>developer</role>
      </roles>
      <timezone>+8</timezone>
    </developer>
  </developers>
  <scm>
    <connection>scm:svn:http://json-simple.googlecode.com/svn/trunk/</connection>
     <developerConnection>scm:svn:http://json-simple.googlecode.com/svn/trunk/</developerConnection>
    <url>http://json-simple.googlecode.com/svn/trunk/</url>
  </scm>

  <properties>
    <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
  </properties>

  <dependencies>
    <dependency>
      <groupId>junit</groupId>
      <artifactId>junit</artifactId>
      <version>4.10</version>
```

```
    </dependency>
</dependencies>

<build>
    <plugins>
        <plugin>
            <groupId>org.apache.felix</groupId>
            <artifactId>maven-bundle-plugin</artifactId>
            <version>2.3.6</version>
            <extensions>true</extensions>
        </plugin>
        <plugin>
            <groupId>org.apache.maven.plugins</groupId>
            <artifactId>maven-compiler-plugin</artifactId>
            <version>2.3.2</version>
            <configuration>

             <source>1.2</source>
              <target>1.2</target>
            </configuration>
        </plugin>
        <plugin>
            <groupId>org.apache.maven.plugins</groupId>
            <artifactId>maven-source-plugin</artifactId>
            <version>2.1.2</version>
            <executions>
              <execution>
                <id>attach-sources</id>
                <phase>verify</phase>
                <goals>
                  <goal>jar-no-fork</goal>
                </goals>
              </execution>
            </executions>
        </plugin>
    </plugins>
</build>

<profiles>
  <profile>
    <id>release-sign-artifacts</id>
    <activation>
      <property>
        <name>performRelease</name>
        <value>true</value>
      </property>
    </activation>
    <build>
```

```
      <plugins>
        <plugin>
          <groupId>org.apache.maven.plugins</groupId>
           <artifactId>maven-gpg-plugin</artifactId>
          <version>1.4</version>
          <executions>
            <execution>
              <id>sign-artifacts</id>
              <phase>verify</phase>
              <goals>
                <goal>sign</goal>
              </goals>
            </execution>
          </executions>
        </plugin>
      </plugins>
    </build>
  </profile>
</profiles>

</project>
```

Found in path(s):
* /opt/cola/permits/1483182720_1680760698.022917/0/jolokia-war-1-7-1-war/WEB-INF/lib/json-simple-1-1-1-jar/META-INF/maven/com.googlecode.json-simple/json-simple/pom.xml

1.2172 org.apache.servicemix.specs.activation-api-1.2.1 1.2.1_3

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1.2173 apache-servicemix-specs-locator 2.10

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1.2178 spring-plugin-core 2.0.0.RELEASE

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1.2179 spring-plugin-metadata 2.0.0.RELEASE

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1.2181 github.com/dgraph-io/ristretto 0.1.1

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1.2207 prometheus-client-model 0.2.0

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1.2210 mdn-data 2.0.4

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1.2211 scala-java8-compat_2.13 1.0.2

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```
Manifest-Version: 1.0
Automatic-Module-Name: scala.compat.java8
Bnd-LastModified: 1635385851336
Bundle-Description: scala-java8-compat
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0;descriptio
n=Apache-2.0
Bundle-ManifestVersion: 2
Bundle-Name: scala-java8-compat
Bundle-SymbolicName: org.scala-lang.modules.scala-java8-compat
Bundle-Vendor: org.scala-lang.modules
Bundle-Version: 1.0.2
Created-By: 1.8.0_312 (Temurin)
Export-Package: scala.compat.java8;version="1.0.2";uses:="scala,scala.
collection,scala.collection.convert,scala.compat.java8.converterImpl,
scala.concurrent,scala.concurrent.duration,scala.jdk,scala.reflect,sc
ala.runtime,scala.runtime.java8",scala.compat.java8.FunctionConverter
s;version="1.0.2";uses:="scala,scala.compat.java8,scala.reflect,scala
.runtime",scala.compat.java8.collectionImpl;version="1.0.2";uses:="sc
ala.collection,scala.jdk,scala.reflect",scala.compat.java8.converterI
 mpl;version="1.0.2";uses:="scala,scala.collection,scala.collection.co
nvert,scala.jdk,scala.reflect,scala.runtime",scala.compat.java8.funct
ionConverterImpls;version="1.0.2";uses:="scala,scala.reflect,scala.ru
ntime",scala.compat.java8.wrappers;version="1.0.2"
Implementation-Title: scala-java8-compat
Implementation-URL: http://www.scala-lang.org/
Implementation-Vendor: org.scala-lang.modules
Implementation-Vendor-Id: org.scala-lang.modules
Implementation-Version: 1.0.2
Import-Package: scala;version="[2.13,3)",scala.collection;version="[2.
13,3)",scala.collection.convert;version="[2.13,3)",scala.collection.m
utable;version="[2.13,3)",scala.compat.java8.collectionImpl;version="
[1.0,2)",scala.compat.java8.converterImpl;version="[1.0,2)",scala.com
pat.java8.functionConverterImpls;version="[1.0,2)",scala.compat.java8
.wrappers;version="[1.0,2)",scala.concurrent;version="[2.13,3)",scala
.concurrent.duration;version="[2.13,3)",scala.concurrent.impl;version
="[2.13,3)",scala.jdk;version="[2.13,3)",scala.jdk.javaapi;version="[
 2.13,3)",scala.reflect;version="[2.13,3)",scala.runtime;version="[2.1
3,3)",scala.runtime.java8;version="[2.13,3)",scala.util;version="[2.1
3,3)"
```

Private-Package: scala.concurrent.java8
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Specification-Title: scala-java8-compat
Specification-Vendor: org.scala-lang.modules
Specification-Version: 1.0.2
Tool: Bnd-5.1.2.202007211702

Found in path(s):
* /opt/cola/permits/1501589067_1670483251.2627988/0/scala-java8-compat-2-13-1-0-2-2-jar/META-INF/MANIFEST.MF

1.2212 scala-parser-combinators_2.13 1.1.2

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* /opt/cola/permits/1501959099_1670507055.4540176/0/scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/combinator/ImplicitConversions.scala
* /opt/cola/permits/1501959099_1670507055.4540176/0/scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/input/CharSequenceReader.scala
* /opt/cola/permits/1501959099_1670507055.4540176/0/scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/json/Lexer.scala
* /opt/cola/permits/1501959099_1670507055.4540176/0/scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/combinator/JavaTokenParsers.scala
* /opt/cola/permits/1501959099_1670507055.4540176/0/scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/input/PositionCache.scala
* /opt/cola/permits/1501959099_1670507055.4540176/0/scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/combinator/PackratParsers.scala
* /opt/cola/permits/1501959099_1670507055.4540176/0/scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/input/PagedSeqReader.scala
* /opt/cola/permits/1501959099_1670507055.4540176/0/scala-parser-combinators-2-13-1-1-2-sources-1-

jar/scala/util/parsing/json/package.scala
* /opt/cola/permits/1501959099_1670507055.4540176/0/scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/combinator/Parsers.scala
* /opt/cola/permits/1501959099_1670507055.4540176/0/scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/input/Position.scala
*
/opt/cola/permits/1501959099_1670507055.4540176/0/scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/combinator/syntactical/StdTokenParsers.scala
* /opt/cola/permits/1501959099_1670507055.4540176/0/scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/combinator/lexical/Scanners.scala
* /opt/cola/permits/1501959099_1670507055.4540176/0/scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/combinator/lexical/StdLexical.scala
* /opt/cola/permits/1501959099_1670507055.4540176/0/scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/combinator/token/Tokens.scala
* /opt/cola/permits/1501959099_1670507055.4540176/0/scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/combinator/lexical/Lexical.scala
* /opt/cola/permits/1501959099_1670507055.4540176/0/scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/input/Positional.scala
* /opt/cola/permits/1501959099_1670507055.4540176/0/scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/input/StreamReader.scala
*
/opt/cola/permits/1501959099_1670507055.4540176/0/scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/combinator/RegexParsers.scala
* /opt/cola/permits/1501959099_1670507055.4540176/0/scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/json/JSON.scala
* /opt/cola/permits/1501959099_1670507055.4540176/0/scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/combinator/syntactical/TokenParsers.scala
* /opt/cola/permits/1501959099_1670507055.4540176/0/scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/input/CharArrayReader.scala
* /opt/cola/permits/1501959099_1670507055.4540176/0/scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/input/OffsetPosition.scala
* /opt/cola/permits/1501959099_1670507055.4540176/0/scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/combinator/syntactical/StandardTokenParsers.scala
* /opt/cola/permits/1501959099_1670507055.4540176/0/scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/combinator/token/StdTokens.scala
*
/opt/cola/permits/1501959099_1670507055.4540176/0/scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/input/PagedSeq.scala
* /opt/cola/permits/1501959099_1670507055.4540176/0/scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/json/Parser.scala
* /opt/cola/permits/1501959099_1670507055.4540176/0/scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/combinator/SubSequence.scala
* /opt/cola/permits/1501959099_1670507055.4540176/0/scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/input/ScalaVersionSpecificPagedSeq.scala
* /opt/cola/permits/1501959099_1670507055.4540176/0/scala-parser-combinators-2-13-1-1-2-sources-1-jar/scala/util/parsing/input/Reader.scala

1.2213 utils 0.0.0-20221107191617-1a15be271d1d

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1.2214 zap 1.24.0

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* /opt/cola/permits/1504130490_1673350391.395042/0/slf4j-api-2-0-3-sources-jar/org/slf4j/helpers/AbstractLogger.java
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* /opt/cola/permits/1504130490_1673350391.395042/0/slf4j-api-2-0-3-sources-jar/org/slf4j/LoggerFactoryFriend.java
* /opt/cola/permits/1504130490_1673350391.395042/0/slf4j-api-2-0-3-sources-jar/org/slf4j/spi/LoggingEventBuilder.java

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* /opt/cola/permits/1504130490_1673350391.395042/0/slf4j-api-2-0-3-sources-jar/org/slf4j/IMarkerFactory.java
* /opt/cola/permits/1504130490_1673350391.395042/0/slf4j-api-2-0-3-sources-jar/org/slf4j/Marker.java
* /opt/cola/permits/1504130490_1673350391.395042/0/slf4j-api-2-0-3-sources-jar/org/slf4j/helpers/NOPLogger.java
* /opt/cola/permits/1504130490_1673350391.395042/0/slf4j-api-2-0-3-sources-jar/org/slf4j/MDC.java
* /opt/cola/permits/1504130490_1673350391.395042/0/slf4j-api-2-0-3-sources-jar/org/slf4j/helpers/SubstituteLoggerFactory.java
* /opt/cola/permits/1504130490_1673350391.395042/0/slf4j-api-2-0-3-sources-jar/org/slf4j/spi/MarkerFactoryBinder.java
*
/opt/cola/permits/1504130490_1673350391.395042/0/slf4j-api-2-0-3-sources-jar/org/slf4j/spi/LoggerFactoryBinder.java
* /opt/cola/permits/1504130490_1673350391.395042/0/slf4j-api-2-0-3-sources-jar/org/slf4j/helpers/BasicMarker.java
* /opt/cola/permits/1504130490_1673350391.395042/0/slf4j-api-2-0-3-sources-jar/org/slf4j/helpers/FormattingTuple.java
* /opt/cola/permits/1504130490_1673350391.395042/0/slf4j-api-2-0-3-sources-

jar/org/slf4j/helpers/NOPMDCAdapter.java
* /opt/cola/permits/1504130490_1673350391.395042/0/slf4j-api-2-0-3-sources-jar/org/slf4j/LoggerFactory.java
* /opt/cola/permits/1504130490_1673350391.395042/0/slf4j-api-2-0-3-sources-jar/org/slf4j/helpers/NOPLoggerFactory.java
* /opt/cola/permits/1504130490_1673350391.395042/0/slf4j-api-2-0-3-sources-jar/org/slf4j/MarkerFactory.java
* /opt/cola/permits/1504130490_1673350391.395042/0/slf4j-api-2-0-3-sources-jar/org/slf4j/spi/LocationAwareLogger.java
* /opt/cola/permits/1504130490_1673350391.395042/0/slf4j-api-2-0-3-sources-jar/org/slf4j/helpers/BasicMDCAdapter.java
*
/opt/cola/permits/1504130490_1673350391.395042/0/slf4j-api-2-0-3-sources-jar/org/slf4j/helpers/BasicMarkerFactory.java
* /opt/cola/permits/1504130490_1673350391.395042/0/slf4j-api-2-0-3-sources-jar/org/slf4j/helpers/NamedLoggerBase.java
* /opt/cola/permits/1504130490_1673350391.395042/0/slf4j-api-2-0-3-sources-jar/org/slf4j/helpers/MessageFormatter.java
* /opt/cola/permits/1504130490_1673350391.395042/0/slf4j-api-2-0-3-sources-jar/org/slf4j/helpers/Util.java
* /opt/cola/permits/1504130490_1673350391.395042/0/slf4j-api-2-0-3-sources-jar/org/slf4j/spi/MDCAdapter.java
* /opt/cola/permits/1504130490_1673350391.395042/0/slf4j-api-2-0-3-sources-jar/org/slf4j/helpers/MarkerIgnoringBase.java
* /opt/cola/permits/1504130490_1673350391.395042/0/slf4j-api-2-0-3-sources-jar/org/slf4j/ILoggerFactory.java
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* /opt/cola/permits/1504130490_1673350391.395042/0/slf4j-api-2-0-3-sources-jar/org/slf4j/spi/DefaultLoggingEventBuilder.java
* /opt/cola/permits/1504130490_1673350391.395042/0/slf4j-api-2-0-3-sources-jar/org/slf4j/Logger.java

1.2216 commons-jexl 3.2.1

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1.2218 pq 1.10.7

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```
//go:build go1.10
// +build go1.10

package pq

import (
 "context"
 "database/sql/driver"
)

// NoticeHandler returns the notice handler on the given connection, if any. A
// runtime panic occurs if c is not a pq connection. This is rarely used
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
 return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A
// runtime panic occurs if c is not a pq connection. A nil handler may be used
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and
// ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
 c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
//
 on it.
type NoticeHandlerConnector struct {
 driver.Connector
```

```
 noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
 c, err := n.Connector.Connect(ctx)
 if err == nil {
  SetNoticeHandler(c, n.noticeHandler)
 }
 return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  return c.noticeHandler
 }
 return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and
 setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  c.noticeHandler = handler
  return c
 }
 return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}
```

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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
*  http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather
 lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*     as needed. This means that data must always be copied to create
*     the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*     Fix is simple: make large buffers large enough to hold entire
*     SDU, and leave <small_buffer_data> bytes empty at the start. Then
*     copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*     buffers. This is done by 2 things:
*       1) skb->destructor / skb->atm.recycle_buffer
*           combined, allow nicstar_free_rx_skb to be called to
*           recycle large data buffers
*       2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
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*
*
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*   Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*
*/
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1.2240 urllib3 1.26.14

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1.2241 go-openapi-jsonpointer 0.19.6

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1.2242 common 0.37.0

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1.2243 python-requests 2.28.2

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1.2244 golang-genproto 0.0.0-20230110181048-76db0878b65f

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1.2246 gonum 0.12.0

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1.2247 lz4 1.2.13

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1.2248 hibernate 5.6.7.Final

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*/
/**
 * Used to pass along the CDI BeanManager, if any, to be used.
 *
 * According to JPA, strictly, the BeanManager should be passed in
 * at boot-time and be ready for use at that time.  However not all
 * environments can do this (WildFly e.g.).  To accommodate such
 * environments, Hibernate provides 2 options:
 *
 *     * a proprietary CDI extension SPI (that we have proposed to
 *      the CDI spec group as a standard option) that can be used
 *      to provide delayed BeanManager access.  To use this solution,
 *      the reference passed as the BeanManager during bootstrap
 *      should be typed as {@link ExtendedBeanManager}
 *     * delayed access to the BeanManager
 reference.  Here, Hibernate
 *      will not access the reference passed as the BeanManager during
 *      bootstrap until it is first needed.  Note however that this has
 *      the effect of delaying any deployment problems until after
 *      bootstrapping.
 *
 * This setting is used to configure Hibernate ORM's access to
 * the BeanManager (either directly or via {@link ExtendedBeanManager}).
 */
```

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```
/*
* Hibernate, Relational Persistence for Idiomatic Java
*
* License: GNU Lesser General Public License (LGPL), version 2.1 or later.
* See the lgpl.txt file in the root directory or <http://www.gnu.org/licenses/lgpl-2.1.html>.
*/
/*
* Written by Doug Lea with assistance from members of JCP JSR-166
* Expert Group and released to the public domain, as explained at
* http://creativecommons.org/licenses/publicdomain
*
* Modified for https://jira.jboss.org/jira/browse/ISPN-299
* Includes ideas described in http://portal.acm.org/citation.cfm?id=1547428
*
*/
/**
* A hash table supporting full concurrency of retrievals and
* adjustable expected concurrency for updates. This class obeys the
* same functional specification as {@link java.util.Hashtable}, and
* includes versions of methods corresponding to each method of
* <tt>Hashtable</tt>. However, even though all operations are
* thread-safe, retrieval
 operations do <em>not</em> entail locking,
* and there is <em>not</em> any support for locking the entire table
* in a way that prevents all access.  This class is fully
* interoperable with <tt>Hashtable</tt> in programs that rely on its
* thread safety but not on its synchronization details.
* <p/>
* <p> Retrieval operations (including <tt>get</tt>) generally do not
* block, so may overlap with update operations (including
* <tt>put</tt> and <tt>remove</tt>). Retrievals reflect the results
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* of the most recently <em>completed</em> update operations holding
* upon their onset.  For aggregate operations such as <tt>putAll</tt>
* and <tt>clear</tt>, concurrent retrievals may reflect insertion or
* removal of only some entries.  Similarly, Iterators and
* Enumerations return elements reflecting the state of the hash table
* at some point at or since the creation of the iterator/enumeration.
* They do <em>not</em> throw {@link java.util.ConcurrentModificationException}.
*
 However, iterators are designed to be used by only one thread at a time.
* <p/>
* <p> The allowed concurrency among update operations is guided by
* the optional <tt>concurrencyLevel</tt> constructor argument
* (default <tt>16</tt>), which is used as a hint for internal sizing.  The
* table is internally partitioned to try to permit the indicated
* number of concurrent updates without contention. Because placement
* in hash tables is essentially random, the actual concurrency will
* vary.  Ideally, you should choose a value to accommodate as many
* threads as will ever concurrently modify the table. Using a
* significantly higher value than you need can waste space and time,
* and a significantly lower value can lead to thread contention. But
* overestimates and underestimates within an order of magnitude do
* not usually have much noticeable impact. A value of one is
* appropriate when it is known that only one thread will modify and
* all others will only read. Also, resizing
 this or any other kind of
* hash table is a relatively slow operation, so, when possible, it is
* a good idea to provide estimates of expected table sizes in
* constructors.
* <p/>
* <p>This class and its views and iterators implement all of the
* <em>optional</em> methods of the {@link Map} and {@link Iterator}
* interfaces.
* <p/>
* <p>This class is copied from Infinispan, and was originally written
* by Doug Lea with assistance from members of JCP JSR-166 Expert Group and
* released to the public domain, as explained at
* http://creativecommons.org/licenses/publicdomain</p>
* <p/>
* <p/>
* <p> Like {@link java.util.Hashtable} but unlike {@link HashMap}, this class
* does <em>not</em> allow <tt>null</tt> to be used as a key or value.
*
* @param <K> the type of keys maintained by this map
* @param <V> the type of mapped values
*
* @author Doug Lea
*/
```

Found in path(s):
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/internal/util/collections/BoundedConcurrentHashMap.java
No license file was found, but licenses were detected in source scan.

/*
* Hibernate, Relational Persistence for Idiomatic Java
*
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* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/loader/collection/package.html
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/criterion/package.html
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/classic/package.html
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/cache/spi/access/package.html
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/jdbc/package.html
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/hibernate-mapping-4.0.xsd
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/persister/entity/package.html
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/hql/internal/ast/package.html
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/bytecode/package.html
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/cache/spi/entry/package.html
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/jpa/persistence_1_0.xsd
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/hql/internal/classic/package.html
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/loader/package.html
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/proxy/package.html
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/jpa/orm_2_0.xsd
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/action/package.html
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/dialect/function/package.html
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/pretty/package.html
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/transform/package.html
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/xsd/mapping/legacy-mapping-4.0.xsd
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/loader/hql/package.html

*
/opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/collection/package.html
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/tuple/package.html
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/internal/util/package.html
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/internal/package.html
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/jpa/persistence_2_1.xsd
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/hql/internal/antlr/package.html
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/engine/package.html
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/xsd/cfg/legacy-configuration-4.0.xsd
*
/opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/loader/custom/package.html
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/mapping/package.html
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/jpa/orm_1_0.xsd
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/event/package.html
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/dialect/package.html
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/id/package.html
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/cache/package.html
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/loader/entity/package.html
*
/opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/metadata/package.html
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/persister/collection/package.html
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/tool/hbm2ddl/package.html
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/hibernate-configuration-4.0.xsd
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/cfg/package.html
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/event/internal/package.html
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-

jar/org/hibernate/persister/package.html
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/package.html
*
 /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/exception/package.html
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/jpa/persistence_2_0.xsd
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/jpa/orm_2_1.xsd
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/usertype/package.html
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/stat/package.html
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/sql/package.html
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/type/package.html
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/hql/package.html
*
 /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/loader/criteria/package.html
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* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/hibernate-configuration-3.0.dtd
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/hibernate-mapping-3.0.dtd
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*/
/**
  * Subclass used to simply instantiation of singular attributes representing an entity's
  * version.
  */

Found in path(s):
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/metamodel/model/domain/internal/SingularAttributeImpl.java
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#
org.hibernate.jpa.HibernatePersistenceProvider
```

Found in path(s):
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/META-INF/services/javax.persistence.spi.PersistenceProvider
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*/
/*
* Written by Doug Lea with assistance from members of JCP JSR-166
* Expert Group and released to the public domain, as explained at
* http://creativecommons.org/licenses/publicdomain
*/
```

Found in path(s):
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/internal/util/collections/ConcurrentReferenceHashMap.java
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```
header {
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*/
package org.hibernate.graph.internal.parse;
}

/**
* Antlr grammar describing the Hibernate EntityGraph Language.
*/
```

```
class GeneratedGraphParser extends Parser;

options {
   // call the vocabulary (H)ibernate (E)ntity(G)raph (L)anguage
 exportVocab=HEGL;

   k = 2;

// buildAST = true;
 buildAST = false;
}


{
 // ~~~
```

```
  else {
   startQualifiedAttribute( path, qualifier );
  }
 }
 ;

subGraph
 : LPAREN (subtype:NAME COLON)? { startSubGraph( subtype ); } attributeNode (COMMA attributeNode )*
RPAREN {
  finishSubGraph();
 }
 ;



// **** LEXER ********************************************************************

/**
* Lexer for the Hibernate EntityGraph Language grammar
*/
class GraphLexer extends Lexer;

options {
   // call the vocabulary (H)ibernate (E)ntity(G)raph (L)anguage
 exportVocab=HEGL;

   k = 2;

   // Allow any char but \uffff (16 bit -1, ANTLR's EOF character)
   charVocabulary = '\u0000'..'\ufffe';

 caseSensitive = false;
 testLiterals = false;
}

COLON: ':';

COMMA: ',';

DOT: '.';

LPAREN: '(';

RPAREN: ')';

WHITESPACE
 :   (   ' '
  |
```

```
  '\t'
 |   '\r' '\n' { newline(); }
 |   '\n'      { newline(); }
 |   '\r'      { newline(); }
 )
 {$setType(Token.SKIP);} //ignore this token
;


/**
* In this grammar, basically any string since we (atm) have no keywords
*/
NAME
 : NAME_START ( NAME_CONTINUATION )*
 ;

protected
NAME_START
  :    '_'
  |    '$'
  |    'a'..'z'
  // HHH-558 : Allow unicode chars in identifiers
  //|    '\u0080'..'\ufffe'
  ;

protected
NAME_CONTINUATION
  :    NAME_START
  |    '0'..'9'
  ;
```

Found in path(s):
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/graph.g
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*/
//  "proprietary" methods is better (this class is "proprietary" too).
```

Found in path(s):
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/graph/EntityGraphs.java
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*/
/**
* JTA platform implementation intended for use with WebSphere Application Server (WAS).
* <p/>
* WAS, unlike every other app server on the planet, does not allow direct access to the JTS TransactionManager.
* Instead, for common transaction-related tasks users must utilize a proprietary API known as
ExtendedJTATransaction.
* <p/>
* Even more unfortunate, the exact TransactionManagerLookup to use inside of WAS is highly dependent upon<ul>
*     <li>WAS version</li>
*     <li>the WAS container in which Hibernate will be utilized</li>
* </ul>
* <p/>
* This class is reported to work on WAS version 6 in any of the standard J2EE/Java EE component containers.
*
* @author Gavin
 King
* @author <a href="mailto:jesper@udby.com>Jesper Udby</a>
* @author Steve Ebersole
*/
```

Found in path(s):
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/engine/transaction/jta/platform/internal/WebSphereExtendedJtaPlatform.java
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-->
```

Found in path(s):
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/jpa/orm_3_0.xsd
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-

jar/org/hibernate/jpa/persistence_3_0.xsd
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```
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*
*/
```

Found in path(s):
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/sql/ordering/antlr/GeneratedOrderByLexer.java
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/sql/ordering/antlr/GeneratedOrderByFragmentParser.java
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/sql/ordering/antlr/GeneratedOrderByFragmentRendererTokenTypes.java
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/sql/ordering/antlr/OrderByTemplateTokenTypes.java
* /opt/cola/permits/1532802101_1673726874.504364/0/hibernate-core-5-6-7-final-sources-jar/org/hibernate/sql/ordering/antlr/GeneratedOrderByFragmentRenderer.java

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1.2250 pytz 2022.7.1

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```
# The main CI of Hibernate ORM is https://ci.hibernate.org/job/hibernate-orm-5.6-h2/.
# However, Hibernate ORM builds run on GitHub actions regularly
# to check that it still works and can be used in GitHub forks.
# See https://docs.github.com/en/free-pro-team@latest/actions
# for more information about GitHub actions.

name: Hibernate ORM build

on:
 push:
   branches:
     - '5.6'
 pull_request:
   branches:
     - '5.6'

# See https://github.com/hibernate/hibernate-orm/pull/4615 for a description of the behavior we're getting.
concurrency:
```

```
 # Consider that two builds are in the same concurrency group (cannot run concurrently)
 # if they use the same workflow and are about the same branch ("ref") or pull request.
 group: "workflow = ${{ github.workflow }}, ref = ${{ github.event.ref }}, pr = ${{ github.event.pull_request.id
}}"
 # Cancel previous builds in the same concurrency group even if they are in process
 # for pull requests or pushes to forks (not the upstream repository).
  cancel-in-progress: ${{ github.event_name == 'pull_request' || github.repository != 'hibernate/hibernate-orm' }}

jobs:
 build:
   name: Java 8
   runs-on: ubuntu-latest
   strategy:
     fail-fast: false
     matrix:
       include:
         - rdbms: h2
#          - rdbms: hsqldb
         - rdbms: derby
         - rdbms: mysql8
         - rdbms: mariadb
         - rdbms: postgresql_9_5
         - rdbms: postgresql_13
         - rdbms: oracle
         - rdbms: db2
         - rdbms: mssql
         - rdbms: sybase
# Running with HANA requires at least 8GB memory just for the database, which we don't have on GH Actions
runners
#          - rdbms: hana
   steps:
     - uses: actions/checkout@v2
       with:
         persist-credentials: false
     - name: Reclaim Disk Space
       run: .github/ci-prerequisites.sh
     - name: Start database
       env:
         RDBMS: ${{ matrix.rdbms }}
       run: ci/database-start.sh
     - name: Set up Java 8

   uses: actions/setup-java@v1
       with:
         java-version: 1.8
     - name: Get year/month for cache key
       id: get-date
       run: |
```

```
      echo "::set-output name=yearmonth::$(/bin/date -u "+%Y-%m")"
    shell: bash
  - name: Cache Maven local repository
    uses: actions/cache@v2
    id: cache-maven
    with:
      path: |
        ~/.m2/repository
        ~/.gradle/caches/
        ~/.gradle/wrapper/
      # refresh cache every month to avoid unlimited growth
      key: maven-localrepo-${{ steps.get-date.outputs.yearmonth }}
  - name: Run build script
    env:
      RDBMS: ${{ matrix.rdbms }}
    run: ./ci/build-github.sh
    shell: bash
  - name: Upload test reports (if Gradle failed)
    uses: actions/upload-artifact@v2
    if: failure()
    with:
      name: test-reports-java8-${{ matrix.rdbms }}
      path: |
        ./**/target/reports/tests/
        ./**/target/reports/checkstyle/
  - name: Omit produced artifacts from build cache
    run: ./ci/before-cache.sh
```

1.2252 readline 8.2

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1.2254 regexpu-core 5.2.1

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1.2255 typedarray-to-buffer 3.1.5

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1.2256 react-is 17.0.2

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1.2257 punycode 2.1.1

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1.2258 xtrans 1.4.0-1

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1.2259 op-go-logging 1.0.0-20160211212156-b2cb9fa56473

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1.2260 go-ieproxy 0.0.3

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1.2261 value-merged_fs 1.2.2

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1.2262 prelude-ls 1.2.1

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name: 'prelude-ls'
version: '1.2.1'

author: 'George Zahariev <z@georgezahariev.com>'

description: "prelude.ls is a functionally oriented utility library. It is powerful and flexible. Almost all of its functions are curried. It is written in, and is the recommended base library for, LiveScript."

keywords:
 'prelude'
 'livescript'
 'utility'
 'ls'
 'coffeescript'
 'javascript'
 'library'
 'functional'
 'array'
 'list'
 'object'
 'string'

main: 'lib/'
files:
 'lib/'
 'README.md'
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homepage: 'http://preludels.com'
bugs: 'https://github.com/gkz/prelude-ls/issues'
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engines:
 node: '>= 0.8.0'
repository:
 type: 'git'
 url: 'git://github.com/gkz/prelude-ls.git'
scripts:
 test: "make test"

dev-dependencies:
 livescript: "^1.6.0",
 'uglify-js': "^3.8.1",
 mocha: "^7.1.1",
 browserify: "^16.5.1",
 sinon: "~8.0.1"

1.2263 stackframe 1.3.4

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1.2264 scheduler 0.23.0

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1.2266 protobuf-java-util 3.21.12

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Manifest-Version: 1.0
Automatic-Module-Name: com.google.protobuf.util
Bnd-LastModified: 1671050288830
Build-Jdk: 11.0.13
Built-By: kfm
Bundle-Description: Utilities for Protocol Buffers
Bundle-DocURL: https://developers.google.com/protocol-buffers/

Bundle-License: https://opensource.org/licenses/BSD-3-Clause
Bundle-ManifestVersion: 2
Bundle-Name: Protocol Buffers [Util]
Bundle-SymbolicName: com.google.protobuf.util
Bundle-Version: 3.21.12
Created-By: Apache Maven Bundle Plugin
Export-Package: com.google.protobuf.util;version="3.21.12";uses:="com.go
ogle.protobuf,javax.annotation"
Import-Package: com.google.common.base;version="[31.1,32)",com.google.co
mmon.io;version="[31.1,32)",com.google.common.math;version="[31.1,32)",
com.google.common.primitives;version="[31.1,32)",com.google.gson;versio
n="[2.8,3)",com.google.gson.stream;version="[2.8,3)",com.google.protobu
f;version="[3.21,4)",javax.annotation;version="[3.0,4)"
Require-Capability:
 osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-3.0.0.201509101326

Found in path(s):
* /opt/cola/permits/1536706780_1674073992.390242/0/protobuf-java-util-3-21-12-1-jar/META-INF/MANIFEST.MF

1.2267 objenesis 3.3

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1.2268 mdurl 0.1.2

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.parse() is based on Joyent's node.js `url` code:

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1.2269 go-compute-metadata 0.2.3

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()
```

```
 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
```

```
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
```

```
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
```

```
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()
```

```
 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp
 }
}
```

```
func ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range
 values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown
 in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
```

```
 // TODO: Use resp.
 _ = resp
}
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package compute

import (
 "bytes"
 "context"
 "fmt"
 "io/ioutil"
 "math"
 "net/http"
 "net/url"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
```

```
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete:            []gax.CallOption{},
  Get:               []gax.CallOption{},
  GetIamPolicy:      []gax.CallOption{},
  Insert:            []gax.CallOption{},
  List:              []gax.CallOption{},
  SetIamPolicy:      []gax.CallOption{},
  TestIamPermissions: []gax.CallOption{},
 }
}

//
 internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

// LicensesClient
 is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient
```

```
 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
//
 Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource
 exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
```

```
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method
 to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud
 Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient
```

```
 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption)
 (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}
```

```
//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", versionGo()}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection()
 *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
```

```
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type",
 "application/json"))
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 op := &Operation{
  &globalOperationsHandle{
   c:
      c.operationClient,
   proto:   resp,
   project: req.GetProject(),
```

```
  },
 }
 return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
```

```
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource
 exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type",
 "application/json"))
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
```

```
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {
 return
nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
```

```
 return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.RequestId != nil {
 params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v", "project",
url.QueryEscape(req.GetProject())))

headers
:= buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
```

```
 }

 return
nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true,
 DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

  params := url.Values{}
  if req != nil && req.Filter != nil {
   params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
```

```
 }
 if req != nil && req.MaxResults != nil {
  params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
 }
 if req != nil && req.OrderBy != nil {
  params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
 }
 if req != nil && req.PageToken != nil {
  params.Add("pageToken", fmt.Sprintf("%v",
req.GetPageToken()))
 }
 if req != nil && req.ReturnPartialSuccess != nil {
  params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return
maybeUnknownEnum(err)
  }
```

```
  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial:
 true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))
```

```
 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings)
 error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
```

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest,
 opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown:
 true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }
```

```
  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
 items    []*computepb.License
 pageInfo *iterator.PageInfo
 nextFunc func() error

 //
 Response is the raw response for the current page.
 // It must be cast to the RPC response type.
 // Calling Next() or InternalFetch() updates this value.
 Response interface{}

 // InternalFetch is for use by the Google Cloud Libraries only.
 // It is not part of the stable interface of this package.
 //
 // InternalFetch returns results from a single call to the underlying RPC.
 // The number of results is no greater than pageSize.
 // If there are no more results, nextPageToken is empty and err is nil.
 InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
 return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator)
```

```
Next() (*computepb.License, error) {
var item *computepb.License
if err := it.nextFunc(); err != nil {
 return item, err
}
item = it.items[0]
it.items = it.items[1:]
return item, nil
}

func (it *LicenseIterator) bufLen() int {
return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
b := it.items
it.items = nil
return b
}
```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io/ioutil"
 "net/http"
 "net/url"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"

```
 httptransport "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
)

var
 newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
 Get              []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
 return &LicenseCodesCallOptions{
  Get:              []gax.CallOption{},
  TestIamPermissions: []gax.CallOption{},
 }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
 (*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseCodesClient

 // The call options for this service.
 CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
```

```
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context,
 req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licenseCodesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD
```

```
 // Points back to the CallOptions field of the containing LicenseCodesClient
 CallOptions **LicenseCodesCallOptions
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
 clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx,
 clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicenseCodesRESTCallOptions()
 c := &licenseCodesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go",
 versionGo()}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
```

```
func (c *licenseCodesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption)
 (*computepb.LicenseCode, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.LicenseCode{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err
 != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
```

```
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq,
 err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))
```

```
 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path
 != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
```

1.2270 x-oauth2 0.4.0

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1.2271 glusterfs 10.3-ubuntu1~focal1

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b) Accompany the work
with a written offer, valid for at
least three years, to give the same user the materials
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d) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

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1.2277 memberlist 0.5.0

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1.2278 go-playground-locales 0.14.1

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1.2279 go-isatty 0.0.17

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1.2280 antlr-antlr4-runtime-go-antlr 1.4.10

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1.2281 http-cache-semantics 4.1.1

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1.2282 bcel 6.7.0

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1.2283 xstrings 1.4.0

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```
package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
```

```
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test
```

```
import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
```

```
 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
```

```
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
```

```
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp
 }
}

func ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range
 values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

```
func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown
 in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
```

```
 "io/ioutil"
 "math"
 "net/http"
 "net/url"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete:            []gax.CallOption{},
  Get:               []gax.CallOption{},
  GetIamPolicy:      []gax.CallOption{},
  Insert:            []gax.CallOption{},
  List:              []gax.CallOption{},
  SetIamPolicy:      []gax.CallOption{},
  TestIamPermissions: []gax.CallOption{},
 }
}

//
 internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
```

```
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

// LicensesClient
 is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
//
 Deprecated: Connections are now pooled so this method does not always
// return the same resource.
```

```
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource
 exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method
 to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
```

```
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud
 Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption)
 (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()
```

```
 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", versionGo()}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection()
```

```
 *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type",
 "application/json"))
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
```

```
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:
     c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
```

```
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource
 exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())
```

```
 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type",
 "application/json"))
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }
```

```
 return nil
 }, opts...)
 if e != nil {
  return
 nil, e
 }
 return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v", "project",
url.QueryEscape(req.GetProject())))

 headers
 := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
```

```
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return
nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
```

```
it := &LicenseIterator{}
req = proto.Clone(req).(*computepb.ListLicensesRequest)
unm := protojson.UnmarshalOptions{AllowPartial: true,
DiscardUnknown: true}
it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
 resp := &computepb.LicensesListResponse{}
 if pageToken != "" {
  req.PageToken = proto.String(pageToken)
 }
 if pageSize > math.MaxInt32 {
  req.MaxResults = proto.Uint32(math.MaxInt32)
 } else if pageSize != 0 {
  req.MaxResults = proto.Uint32(uint32(pageSize))
 }
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, "", err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.Filter != nil {
  params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
 }
 if req != nil && req.MaxResults != nil {
  params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
 }
 if req != nil && req.OrderBy != nil {
  params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
 }
 if req != nil && req.PageToken != nil {
  params.Add("pageToken", fmt.Sprintf("%v",
req.GetPageToken()))
 }
 if req != nil && req.ReturnPartialSuccess != nil {
  params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
```

```
  return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return
maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}
```

```
// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial:
 true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings)
 error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()
```

```
  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest,
 opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
```

```
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown:
 true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
 items    []*computepb.License
 pageInfo *iterator.PageInfo
 nextFunc func() error

 //
```

```
 Response is the raw response for the current page.
 // It must be cast to the RPC response type.
 // Calling Next() or InternalFetch() updates this value.
 Response interface{}

 // InternalFetch is for use by the Google Cloud Libraries only.
 // It is not part of the stable interface of this package.
 //
 // InternalFetch returns results from a single call to the underlying RPC.
 // The number of results is no greater than pageSize.
 // If there are no more results, nextPageToken is empty and err is nil.
 InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
 return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator)
 Next() (*computepb.License, error) {
 var item *computepb.License
 if err := it.nextFunc(); err != nil {
  return item, err
 }
 item = it.items[0]
 it.items = it.items[1:]
 return item, nil
}

func (it *LicenseIterator) bufLen() int {
 return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
 b := it.items
 it.items = nil
 return b
}
```

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package compute

import (
 "bytes"
 "context"
 "fmt"
 "io/ioutil"
 "net/http"
 "net/url"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
)

var
 newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
 Get              []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
 return &LicenseCodesCallOptions{
  Get:              []gax.CallOption{},
  TestIamPermissions: []gax.CallOption{},
 }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
 Close() error
 setGoogleClientInfo(...string)
```

```
 Connection() *grpc.ClientConn
 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
 (*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseCodesClient

 // The call options for this service.
 CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
```

```
 return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context,
 req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licenseCodesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD

 // Points back to the CallOptions field of the containing LicenseCodesClient
 CallOptions **LicenseCodesCallOptions
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
 clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx,
 clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicenseCodesRESTCallOptions()
 c := &licenseCodesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}
```

```
func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go",
 versionGo()}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption)
 (*computepb.LicenseCode, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())
```

```
 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.LicenseCode{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err
 != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
```

```
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq,
 err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path
 != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
```

```
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}
```

1.2285 github.com/rivo/uniseg 0.4.3

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1.2286 container-storage-interface-spec 1.7.0

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* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/internal/converter/ToOptionalConverter.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-

jar/org/modelmapper/internal/converter/FromOptionalConverter.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/internal/converter/OptionalConverter.java
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* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/internal/ReferenceMapExpressionImpl.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/spi/SourceGetter.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/ExpressionMap.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/internal/ConfigurableConditionExpressionImpl.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/builder/ReferenceMapExpression.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/spi/DestinationSetter.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/builder/ConfigurableConditionExpression.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/internal/InternalPropertyInfo.java
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* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/internal/InheritingConfiguration.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/ConfigurationException.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/internal/ProvisionRequestImpl.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/builder/SkipExpression.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/internal/util/Lists.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/internal/converter/DateConverter.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/spi/ConditionalConverter.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/internal/converter/StringConverter.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/internal/SourceMappingImpl.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/internal/converter/CharacterConverter.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/internal/ErrorsException.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/ModelMapper.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/Provider.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/spi/NameableType.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/internal/PropertyInfoImpl.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/builder/ProviderExpression.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/internal/converter/MapConverter.java
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* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/TypeMap.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/internal/Accessor.java
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* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/spi/MappingContext.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/internal/util/Assert.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/spi/ErrorMessage.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/internal/TypeMapImpl.java
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* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/spi/NamingConvention.java
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* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/internal/ImplicitMappingBuilder.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/internal/MappingContextImpl.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/convention/NamingConventions.java
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* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/MappingException.java
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/opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/internal/TypeInfoImpl.java
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* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/spi/PropertyType.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/convention/NameTokenizers.java
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* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/internal/converter/ConverterStore.java
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/opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/internal/PropertyInfoResolver.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/internal/converter/NumberConverter.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/internal/PropertyMappingImpl.java
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* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/Conditions.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/builder/ConditionExpression.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/internal/PropertyInfoRegistry.java

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* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/internal/converter/CalendarConverter.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/internal/converter/NonMergingCollectionConverter.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/config/Configuration.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/internal/converter/EnumConverter.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/internal/util/ToStringBuilder.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/convention/StrictMatchingStrategy.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/spi/NameTransformer.java
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* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/convention/NameTransformers.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/internal/TypePair.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/internal/ConstantMappingImpl.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/spi/Mapping.java
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* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/convention/StandardMatchingStrategy.java
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* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/internal/converter/BooleanConverter.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/internal/converter/MergingCollectionConverter.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/AbstractCondition.java
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* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/internal/util/Iterables.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-

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 /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/internal/TypeInfo.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/internal/TypeMapStore.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/spi/SourceMapping.java
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* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/TypeToken.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/internal/valueaccess/MapValueReader.java
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* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/spi/TypeSafeSourceGetter.java
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* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/internal/util/Callable.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/Converters.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/internal/TypeResolvingList.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/internal/Pair.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/spi/ValueWriter.java
* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/internal/valuemutate/MapValueWriter.java
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* /opt/cola/permits/1555083571_1675669916.198866/0/modelmapper-3-1-1-sources-1-jar/org/modelmapper/internal/ExplicitMappingBuilder.java

1.2292 googlecloudgoiam 0.8.0

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1.2293 dom4j 2.1.4

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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* License: Apache-2.0
* Project: https://codehaus-plexus.github.io/plexus-archiver/
* Source: https://github.com/codehaus-plexus/plexus-archiver

plexus-io (3.0.0)

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plexus-utils (3.1.0)

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relaxng-datatype (1.0)

* License: New BSD license

Sax (0.2)

* License: SAX-PD
* Project: http://www.megginson.com/downloads/SAX/
* Source: http://sourceforge.net/project/showfiles.php?group_id=29449

testng (6.14.2)

* License: Apache-2.0 AND (MIT OR GPL-1.0+)
* Project: https://testng.org/doc/index.html
* Source: https://github.com/cbeust/testng

wagon-http-lightweight (3.0.0)

* License: Pending
*
 Project: https://maven.apache.org/wagon/
* Source:
  https://mvnrepository.com/artifact/org.apache.maven.wagon/wagon-http-lightweight/3.0.0

xz for java (1.8)

* License: LicenseRef-Public-Domain

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1.2299 github.com/redis/go-redis/v9 9.0.2

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1.2300 error_prone_annotations 2.18.0

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```
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Found in path(s):
* /opt/cola/permits/1561114197_1676017124.4546986/0/error-prone-annotations-2-18-0-jar/META-INF/maven/com.google.errorprone/error_prone_annotations/pom.xml

1.2301 jakarta-servlet-api 6.0.0

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/opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/annotation/ServletSecurity$TransportGuarantee.class: binary file matches

Found in path(s):
* /bin/grep

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be sent in
such a way that it can't be changed in transit. CONFIDENTIAL means
that the application requires that the data be transmitted in a
fashion that prevents other entities from observing the contents of
the transmission. In most cases, the presence of the INTEGRAL or
CONFIDENTIAL flag will indicate that the use of SSL is required.

Used in: user

Found in path(s):
* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-app_2_3.dtd
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that the application requires that the data be transmitted in a
fashion that prevents other entities from observing the contents of
the transmission. In most cases, the presence of the INTEGRAL or
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Found in path(s):
* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-app_2_2.dtd
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* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/descriptor/package.html
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* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-jsptaglibrary_3_0.xsd
* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/jakartaee_9.xsd
* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/jsp_3_0.xsd
* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-fragment_5_0.xsd
* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-app_5_0.xsd
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* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/package.html
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* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-jsptaglibrary_1_2.dtd
* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-jsptaglibrary_1_1.dtd
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* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-jsptaglibrary_3_1.xsd
* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-fragment_6_0.xsd
* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-app_6_0.xsd
* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/jakartaee_10.xsd
* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/jakartaee_web_services_client_2_0.xsd
* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/jsp_3_1.xsd
* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/jakartaee_web_services_2_0.xsd
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changed in transit. CONFIDENTIAL means that the application
CONFIDENTIAL flag will indicate that the use of SSL is
<xsd:enumeration value="CONFIDENTIAL"/>

Found in path(s):
* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-common_6_0.xsd

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* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/LocalStrings_ja.properties
* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/http/LocalStrings_fr.properties
* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/http/LocalStrings_ja.properties
* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/http/LocalStrings_es.properties
* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/LocalStrings_fr.properties
* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/http/LocalStrings.properties
* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/LocalStrings.properties
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<xsd:enumeration value="CONFIDENTIAL"/>

Found in path(s):
* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-common_5_0.xsd
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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Build-Jdk-Spec: 11
Bnd-LastModified: 1652339954197
Build-Jdk: 11.0.2
Built-By: jenkins
Bundle-Description: Jakarta Servlet 6.0

Bundle-DocURL: https://www.eclipse.org
Bundle-License: http://www.eclipse.org/legal/epl-2.0, https://www.gnu.or
g/software/classpath/license.html
Bundle-ManifestVersion: 2
Bundle-Name: Jakarta Servlet
Bundle-SymbolicName: jakarta.servlet-api
Bundle-Vendor: Eclipse Foundation
Bundle-Version: 6.0.0
Export-Package: jakarta.servlet;uses:="jakarta.servlet.annotation,jakart
a.servlet.descriptor";version="6.0.0",jakarta.servlet.annotation;uses:=
"jakarta.servlet";version="6.0.0",jakarta.servlet.descriptor;version="6
.0.0",jakarta.servlet.http;uses:="jakarta.servlet";version="6.0.0",jaka
rta.servlet.resources;version="6.0.0"
Extension-Name: jakarta.servlet
Implementation-Vendor: Eclipse Foundation
Implementation-Vendor-Id: org.eclipse
Implementation-Version:
 6.0.0
Import-Package: jakarta.servlet,jakarta.servlet.annotation,jakarta.servl
et.descriptor
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=11))"
Specification-Vendor: Eclipse Foundation
Specification-Version: 6.0
Tool: Bnd-5.1.1.202006162103

Found in path(s):
* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/META-INF/MANIFEST.MF
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* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-fragment_3_1.xsd
* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-app_3_1.xsd
* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/jsp_2_1.xsd
* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/javaee_web_services_client_1_3.xsd
* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/jsp_2_3.xsd
* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-fragment_4_0.xsd
* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/javaee_5.xsd
* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/javaee_web_services_client_1_4.xsd
* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/javaee_web_services_1_4.xsd
* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-jsptaglibrary_2_0.xsd
* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/javaee_web_services_client_1_2.xsd

* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/javaee_web_services_1_2.xsd
* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-app_2_5.xsd
* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/j2ee_1_4.xsd
* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-app_3_0.xsd
* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-jsptaglibrary_2_1.xsd
* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/javaee_8.xsd
* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-app_4_0.xsd
* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/javaee_7.xsd
* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/jsp_2_0.xsd
* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/j2ee_web_services_1_1.xsd
* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/javaee_web_services_1_3.xsd
* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-common_3_0.xsd
* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-app_2_4.xsd
* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/javaee_6.xsd
* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-common_4_0.xsd
* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/jsp_2_2.xsd
* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/j2ee_web_services_client_1_1.xsd
* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-fragment_3_0.xsd
* /opt/cola/permits/1561981000_1676056743.3401368/0/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-common_3_1.xsd
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1.2302 servlet-api 6.0.0

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- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd

- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd

may be obtained from:
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- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd

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- javaee_web_services_1_4.xsd
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1.2306 github.com/yalue/merged_fs 1.2.2

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1.2307 gnutls 3.7.1-5+deb11u3

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1.2308 ttf-liberation 2.1.5-r2

1.2308.1 Available under license :

```
# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=ttf-freefont
pkgver=20120503
pkgrel=2
pkgdesc="A set of free high-quality TrueType fonts covering the UCS character set"
url="https://nongnu.org/freefont/"
arch="noarch"
license="GPL-3.0-or-later with exception"
options="!check"  # No test suite.
depends="fontconfig encodings mkfontdir mkfontscale"
makedepends="font-util-dev"
source="https://ftp.gnu.org/gnu/freefont/freefont-ttf-$pkgver.zip"
builddir="$srcdir/freefont-$pkgver"
```

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1.2310 jansson 2.14-2

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1.2313 github.com/perimeterx/marshmallow 1.1.4

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1.2314 python-json-logger 2.0.6

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1.2315 go-cty-yaml 1.0.3

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1.2316 python-pip 23.0.1

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
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2.2.3	2.2.2	2003	PSF	yes
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2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
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2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
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2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the

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In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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1.2320 gson 2.10.1

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Manifest-Version: 1.0
Created-By: 11.0.16.1 (Azul Systems, Inc.)
Build-Jdk-Spec: 11

Bnd-LastModified: 1673019830620
Bundle-ContactAddress: https://github.com/google/gson
Bundle-Description: Gson JSON library
Bundle-Developers: google;organization=Google;organizationUrl="https://w
ww.google.com"
Bundle-DocURL: https://github.com/google/gson/gson
Bundle-License: "Apache-2.0";link="https://www.apache.org/licenses/LICEN
SE-2.0.txt"
Bundle-ManifestVersion: 2
Bundle-Name: Gson
Bundle-RequiredExecutionEnvironment: JavaSE-1.7, JavaSE-1.8
Bundle-SCM: url="https://github.com/google/gson/gson/",connection="scm:g
it:https://github.com/google/gson.git/gson",developer-connection="scm:g
it:git@github.com:google/gson.git/gson",tag="gson-parent-2.10.1"
Bundle-SymbolicName: com.google.gson
Bundle-Vendor: Google Gson Project
Bundle-Version: 2.10.1
Export-Package: com.google.gson;uses:="com.google.gson.reflect,com.googl
e.gson.stream";version="2.10.1",com.google.gson.annotations;version="2.
 10.1",com.google.gson.reflect;version="2.10.1",com.google.gson.stream;v
ersion="2.10.1"
Import-Package: sun.misc;resolution:=optional,com.google.gson.annotation
s
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-6.4.0.202211291949
Multi-Release: true

Found in path(s):
* /opt/cola/permits/1570533427_1676891842.8285189/0/gson-2-10-1-jar/META-INF/MANIFEST.MF

1.2321 x-net 0.7.0

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1.2322 x-sys 0.5.0

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1.2323 commons-fileupload 1.5

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1.2324 tonistiigi-go-archvariant 1.0.0

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1.2325 python-json-logger 2.0.7

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1.2327 kubernetes-apimachinery 0.25.0

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1.2328 kubernetes-api 0.25.0

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* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/CDATA.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/output/Format.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/Attribute.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/DescendantIterator.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/Document.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/filter/OrFilter.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/xpath/jaxen/JDOMXPath.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/DefaultJDOMFactory.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/filter/NegateFilter.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/input/sax/SAXHandler.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/util/JDOMNamespaceContext.java
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Found in path(s):
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/filter/ClassFilter.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/NamespaceAware.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/JDOMConstants.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/filter/Filters.java
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Found in path(s):
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-

jar/org/jdom2/transform/XSLTransformException.java
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Found in path(s):
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/input/sax/DefaultSAXHandlerFactory.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/output/LineSeparator.java
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Found in path(s):
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/output/support/AbstractFormattedWalker.java
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Found in path(s):
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/located/LocatedCDATA.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/located/Located.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/output/support/WalkerPRESERVE.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/located/LocatedJDOMFactory.java

*
/opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/output/support/WalkerTRIM.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/located/LocatedText.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/output/support/WalkerNORMALIZE.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/output/support/WalkerTRIM_FULL_WHITE.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/located/LocatedComment.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/located/LocatedDocType.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/located/LocatedEntityRef.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/located/LocatedElement.java
*
/opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/located/LocatedProcessingInstruction.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/output/support/Walker.java
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* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-

jar/org/jdom2/xpath/jaxen/JDOMCoreNavigator.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/xpath/XPathFactory.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/xpath/jaxen/JaxenXPathFactory.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/xpath/util/XPathDiagnosticImpl.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/CloneBase.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/xpath/XPathExpression.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/xpath/XPathDiagnostic.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/input/stax/package-info.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/xpath/util/AbstractXPathCompiled.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/internal/SystemProperty.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/input/sax/XMLReaderJAXPFactory.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/util/IteratorIterable.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/SlimJDOMFactory.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/xpath/jaxen/JDOM2Navigator.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/xpath/jaxen/JaxenCompiled.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/xpath/XPathBuilder.java
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Found in path(s):
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/output/DOMOutputter.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/input/sax/BuilderErrorHandler.java

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Found in path(s):
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/filter/TextOnlyFilter.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/filter/PassThroughFilter.java
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Found in path(s):
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/util/NamespaceStack.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/internal/ArrayCopy.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/internal/ReflectionConstructor.java
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Found in path(s):
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/transform/JDOMResult.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/transform/JDOMSource.java

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* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/IllegalDataException.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/IllegalAddException.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/UncheckedJDOMFactory.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/IllegalTargetException.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/adapters/AbstractDOMAdapter.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/adapters/JAXPDOMAdapter.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/filter/Filter.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/Namespace.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/Verifier.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/DataConversionException.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/IllegalNameException.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/output/JDOMLocator.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/adapters/DOMAdapter.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/JDOMException.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/output/support/StAXStreamProcessor.java
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* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/output/StAXEventOutputter.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/xpath/jaxen/NamespaceContainer.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/input/StAXEventBuilder.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/output/StAXStreamOutputter.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/input/sax/package-info.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/input/StAXStreamBuilder.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/filter/AttributeFilter.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/input/stax/DTDParser.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/xpath/jaxen/JDOMNavigator.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/AttributeType.java
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* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-

jar/org/jdom2/input/sax/SAXBuilderEngine.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/input/sax/XMLReaderSchemaFactory.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/input/sax/AbstractReaderSchemaFactory.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/input/stax/StAXFilter.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/input/sax/XMLReaderXSDFactory.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/input/sax/XMLReaders.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/input/sax/SAXEngine.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/input/sax/XMLReaderJDOMFactory.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/input/sax/XMLReaderSAX2Factory.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/input/stax/DefaultStAXFilter.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/input/sax/AbstractReaderXSDFactory.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/input/sax/SAXHandlerFactory.java
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```
*/
/*
 * ==========================================================================
 * Support methods for Text-content formatting. Should all be protected. The
 * following are used when printing Text-based data. Because of complicated
 * multi-sequential text sometimes the requirements are odd. All Text
 * content will be output using these methods, which is why there is the None
 * version.
 * ==========================================================================

 */
```

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* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/output/support/AbstractXMLOutputProcessor.java

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```
*/
/*
  * ==========================================================================
  * Support methods for Text-content formatting. Should all be protected. The
  * following are used when printing Text-based data. Because of complicated
  * multi-sequential text sometimes the requirements are odd. All Text
  * content will be output using these methods, which is why there is the None
  * version.
  * ==========================================================================

 */
```

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* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-
jar/org/jdom2/output/support/SAXOutputProcessor.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-
jar/org/jdom2/output/support/FormatStack.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-
jar/org/jdom2/output/support/AbstractDOMOutputProcessor.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-
jar/org/jdom2/output/support/DOMOutputProcessor.java
*
/opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-
jar/org/jdom2/output/support/AbstractStAXEventProcessor.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-
jar/org/jdom2/output/support/AbstractStAXStreamProcessor.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-

jar/org/jdom2/output/support/StAXEventProcessor.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/output/support/XMLOutputProcessor.java
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Found in path(s):
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/xpath/XPath.java
* /opt/cola/permits/1580319819_1677688587.589057/0/jdom2-2-0-6-1-sources-2-jar/org/jdom2/output/support/AbstractSAXOutputProcessor.java

1.2330 mitchellh-cli 1.1.5

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1.2340 snake-yaml 2.0

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* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/PropertyUtils.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/nodes/Tag.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-

jar/org/yaml/snakeyaml/events/NodeEvent.java
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* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/comments/CommentType.java
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/**
* A Base64 encoder/decoder.
*
* <p>
* This class is used to encode and decode data in Base64 format as described in RFC 1521.
*
* <p>
```

* Project home page: www.
* source-code.biz/base64coder/java
* Author: Christian d'Heureuse, Inventec Informatik AG, Zurich, Switzerland
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* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/external/biz/base64Coder/Base64Coder.java

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1.2351 pydantic 1.10.6

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1.2352 urllib3 1.26.15

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1.2353 bzip2 1.0.3-6.el5_5

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bzip2/libbzip2 version 1.0.3 of 15 February 2005

1.2354 sed 4.7-1

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1.2355 libmnl 1.0.4-3

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1.2357 pcre 10.36-2+deb11u1

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tirpc/rpc/auth_des.h
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tirpc/rpc/des_crypt.h
tirpc/rpc/pmap_clnt.h
tirpc/rpc/pmap_prot.h
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1.2359 x-net 0.8.0

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1.2360 x-sys 0.6.0

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1.2362 klauspost-compress 1.16.0

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1.2373 kubernetes-client 0.26.2

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1.2374 lazr-uri 1.0.6

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1.2382 github.com/proglottis/gpgme 0.1.3

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1.2385 kubernetes-apiserver 0.26.2

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1.2386 httplib 0.22.0

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1.2387 pq 1.10.5

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```
//go:build go1.10
// +build go1.10

package pq

import (
 "context"
 "database/sql/driver"
)

// NoticeHandler returns the notice handler on the given connection, if any. A
// runtime panic occurs if c is not a pq connection. This is rarely used
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
 return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A
// runtime panic occurs if c is not a pq connection. A nil handler may be used
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and
// ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
 c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
//
 on it.
type NoticeHandlerConnector struct {
 driver.Connector
 noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
 c, err := n.Connector.Connect(ctx)
 if err == nil {
  SetNoticeHandler(c, n.noticeHandler)
 }
 return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
```

```
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  return c.noticeHandler
 }
 return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and
 setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  c.noticeHandler = handler
  return c
 }
 return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}
```

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1.2388 govalidator 0.0.0-20230301143203-a9d515a09cc2

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1.2389 docker 20.10.21+incompatible

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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1.2395 kustomize-kyaml 0.14.1

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1.2397 github.com/alecthomas/kingpin/v2 2.3.2

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1.2398 json-smart 2.4.10

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* /opt/cola/permits/1619377352_1680083027.7224898/0/json-smart-2-4-10-sources-jar/net/minidev/json/writer/ArraysMapper.java
* /opt/cola/permits/1619377352_1680083027.7224898/0/json-smart-2-4-10-sources-jar/net/minidev/json/parser/JSONParserBase.java
* /opt/cola/permits/1619377352_1680083027.7224898/0/json-smart-2-4-10-sources-jar/net/minidev/json/parser/JSONParserStream.java
* /opt/cola/permits/1619377352_1680083027.7224898/0/json-smart-2-4-10-sources-jar/net/minidev/json/writer/DefaultMapperCollection.java
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* /opt/cola/permits/1619377352_1680083027.7224898/0/json-smart-2-4-10-sources-jar/net/minidev/json/parser/JSONParserByteArray.java
* /opt/cola/permits/1619377352_1680083027.7224898/0/json-smart-2-4-10-sources-jar/net/minidev/json/writer/JsonReader.java

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* /opt/cola/permits/1619377352_1680083027.7224898/0/json-smart-2-4-10-sources-jar/net/minidev/json/writer/BeansMapper.java
* /opt/cola/permits/1619377352_1680083027.7224898/0/json-smart-2-4-10-sources-jar/net/minidev/json/JSONAware.java
* /opt/cola/permits/1619377352_1680083027.7224898/0/json-smart-2-4-10-sources-jar/net/minidev/json/JSONStreamAware.java
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*
/opt/cola/permits/1619377352_1680083027.7224898/0/json-smart-2-4-10-sources-jar/net/minidev/json/JStylerObj.java
* /opt/cola/permits/1619377352_1680083027.7224898/0/json-smart-2-4-10-sources-jar/net/minidev/json/JSONNavi.java
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* /opt/cola/permits/1620305207_1681235012.312586/0/influxdb-1-8-10-linux-amd64-tar-gz/influxdb-1.8.10-1/usr/share/man/man1/influxd-restore-1-gz/influxd-restore.1
* /opt/cola/permits/1620305207_1681235012.312586/0/influxdb-1-8-10-linux-amd64-tar-gz/influxdb-1.8.10-1/usr/share/man/man1/influx-1-gz/influx.1
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* /opt/cola/permits/1620305207_1681235012.312586/0/influxdb-1-8-10-linux-amd64-tar-gz/influxdb-1.8.10-1/usr/share/man/man1/influxd-version-1-gz/influxd-version.1

1.2400 fasthttp 1.40.0

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1.2401 tollbooth 4.0.2+incompatible

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1.2402 hodgesds-perf-utils 0.7.0

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1.2403 kingpin 2.3.2

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1.2404 containernetworking-plugins 1.2.0

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1.2407 swagger-core 2.2.8

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1.2408 swagger 2.2.8

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info:
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 version: 1.0.0
 description: This is a sample server for a pet store.
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/**
* @prettier
*/
import React from "react"
import PropTypes from "prop-types"

import { sanitizeUrl } from "core/utils"

const License = ({ getComponent, specSelectors }) => {
 const name = specSelectors.selectLicenseNameField()
 const url = specSelectors.selectLicenseUrl()

 const Link = getComponent("Link")

 return (
   <div className="info__license">
     {url ? (
       <div className="info__license__url">
         <Link target="_blank" href={sanitizeUrl(url)}>
           {name}
         </Link>
       </div>
     ) : (
       <span>{name}</span>
     )}
   </div>
 )
}

License.propTypes = {
 getComponent: PropTypes.func.isRequired,
 specSelectors: PropTypes.shape({
   selectLicenseNameField: PropTypes.func.isRequired,
   selectLicenseUrl: PropTypes.func.isRequired,
 }).isRequired,
}

export default License
openapi: 3.1.0
info:
 title: OpenAPI 3.1 License with only url present
 version: 1.0.0
 description: This is a sample server for a pet store.
```

```
 license:
   name: Apache 2.0
   url: https://www.apache.org/licenses/LICENSE-2.0.html
   # identifier: Apache-2.0 # mutually exclusive of url; separately, for json_schema, consider const, prefix, array
items can be of a different type (current assumption is all array items are the same)
/**
* @prettier
*/
import React from "react"

import { createOnlyOAS31ComponentWrapper } from "../fn"

const LicenseWrapper = createOnlyOAS31ComponentWrapper(({ getSystem }) => {
 const system = getSystem()
 const OAS31License = system.getComponent("OAS31License", true)

 return <OAS31License />
})

export default LicenseWrapper
openapi: 3.1.0
info:
 title: OpenAPI 3.1 License with only identifier present
 version: 1.0.0
 description: This is a sample server for a pet store.
 license:
   name: Apache 2.0
   url: https://www.apache.org/licenses/LICENSE-2.0.html
   identifier: Apache-2.0 # mutually exclusive of url; separately, for json_schema, consider const, prefix, array items
can be of a different type (current assumption is all array items are the same)
/**
* @prettier
*/
import React from "react"
import PropTypes from "prop-types"
import { safeBuildUrl } from "core/utils/url"
import { sanitizeUrl } from "core/utils"

class License extends React.Component {
 static propTypes = {
   license: PropTypes.object,
   getComponent: PropTypes.func.isRequired,
   specSelectors: PropTypes.object.isRequired,
   selectedServer: PropTypes.string,
   url: PropTypes.string.isRequired,
 }

 render() {
```

```
  const { license, getComponent, selectedServer, url: specUrl } = this.props
  const name = license.get("name", "License")
  const url = safeBuildUrl(license.get("url"), specUrl, { selectedServer })

  const Link = getComponent("Link")

  return (
    <div className="info__license">
      {url ? (
        <div className="info__license__url">
          <Link target="_blank" href={sanitizeUrl(url)}>
            {name}
          </Link>
        </div>
      ) : (
        <span>{name}</span>
      )}
    </div>
  )
 }
}

export default License
```

```
openapi: 3.1.0
info:
 title: OpenAPI 3.1 License with only identifier present
 version: 1.0.0
 description: This is a sample server for a pet store.
 license:
   name: Apache 2.0
   identifier: Apache-2.0
```

1.2409 crewjam-saml 0.4.13

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1.2410 x-sys 0.7.0

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1.2418 gopsutil 2.20.9+incompatible

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1.2419 bouncycastle-fips 2.0.0

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1.2421 @rollup/plugin-babel 5.3.1

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1.2422 go-etcd-io-bbolt 1.3.7

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1.2423 just-diff 6.0.2

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1.2424 golang-genproto 0.0.0-20230410155749-daa745c078e1

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1.2425 bridgeutils 1.7.1-r2

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//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}
```

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Go support for Protocol Buffers - Google's data interchange format
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Support for streaming Protocol Buffer messages for the Go language (golang).
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1.2428 openpyxl 3.1.2

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Metadata-Version: 2.1
Name: openpyxl

Version: 3.1.2
Summary: A Python library to read/write Excel 2010 xlsx/xlsm files
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Introduction
---

openpyxl is a Python library to read/write Excel 2010 xlsx/xlsm/xltx/xltm files.

It was born from lack of existing library to read/write natively from Python
the Office Open XML format.

All kudos to the PHPExcel team as openpyxl was initially based on PHPExcel.

Security

By default openpyxl does not guard against quadratic blowup or billion laughs
xml attacks. To guard against these attacks install defusedxml.

Mailing List

The user list can be found on http://groups.google.com/group/openpyxl-users

Sample code::

```
  from openpyxl import Workbook
  wb = Workbook()

  # grab
 the active worksheet
  ws = wb.active

  # Data can be assigned directly to cells
  ws['A1'] = 42

  # Rows can also be appended
  ws.append([1, 2, 3])

  # Python types will automatically be converted
  import datetime
  ws['A2'] = datetime.datetime.now()

  # Save the file
  wb.save("sample.xlsx")
```

Documentation

The documentation is at: https://openpyxl.readthedocs.io

* installation methods
* code examples
* instructions for contributing

Release notes: https://openpyxl.readthedocs.io/en/stable/changes.html

Found in path(s):
* /opt/cola/permits/1640551891_1694160533.3630173/0/openpyxl-3-1-2-tar-gz/openpyxl-3.1.2/PKG-INFO
* /opt/cola/permits/1640551891_1694160533.3630173/0/openpyxl-3-1-2-tar-gz/openpyxl-3.1.2/openpyxl.egg-info/PKG-INFO
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1.2429 opensaml-messaging-impl 4.2.0

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*/
/** Message channel confidentiality flag. */
/**
   * Get whether message channel confidentiality
 is active.
   *
   * @return Returns the confidentialityActive.
   */
/**
   * Set whether message channel confidentiality is active.
   *
   * @param flag The confidentialityActive to set.
   */
```

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* /opt/cola/permits/1641306326_1709860371.7951977/0/opensaml-messaging-impl-4-2-0-sources-jar/org/opensaml/messaging/handler/impl/StaticMessageChannelSecurity.java
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1.2430 opensaml-soap-api 4.2.0

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<!-- Schema for the SOAP/1.1 envelope

  This schema has been produced using W3C's SOAP Version 1.2 schema
  found at:

  http://www.w3.org/2001/06/soap-envelope

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  Changes made are the following:
  - reverted namespace to http://schemas.xmlsoap.org/soap/envelope/
  - reverted mustUnderstand to only allow 0 and 1 as lexical values
  - made encodingStyle a global attribute 20020825

  Further changes:

  - removed default value from mustUnderstand attribute declaration - 20030314

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<!--
W3C XML Schema defined in the Web Services Addressing 1.0 specification
http://www.w3.org/TR/ws-addr-core

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* /opt/cola/permits/1641308248_1709860382.442964/0/opensaml-soap-api-4-2-0-sources-jar/schema/oasis-wss-wssecurity-secext-1.1.xsd

1.2431 opensaml-profile-api 4.2.0

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*/
/**
* A predicate implementation that indicates whether the message channel does
* <strong>NOT</strong>
 support confidentiality end-to-end.
*
* <p>Typically but not exclusively used as a predicate for whether to encrypt something.</p>
*/
```

Found in path(s):
* /opt/cola/permits/1641307450_1709860370.668945/0/opensaml-profile-api-4-2-0-sources-jar/org/opensaml/profile/logic/NoConfidentialityMessageChannelPredicate.java

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Found in path(s):
* /opt/cola/permits/1641307450_1709860370.668945/0/opensaml-profile-api-4-2-0-sources-jar/org/opensaml/profile/action/AbstractConditionalProfileAction.java
* /opt/cola/permits/1641307450_1709860370.668945/0/opensaml-profile-api-4-2-0-sources-jar/org/opensaml/profile/context/navigate/ParentProfileRequestContextLookup.java
* /opt/cola/permits/1641307450_1709860370.668945/0/opensaml-profile-api-4-2-0-sources-jar/org/opensaml/profile/context/navigate/CurrentOrPreviousEventLookup.java
* /opt/cola/permits/1641307450_1709860370.668945/0/opensaml-profile-api-4-2-0-sources-jar/org/opensaml/profile/context/MetricContext.java
* /opt/cola/permits/1641307450_1709860370.668945/0/opensaml-profile-api-4-2-0-sources-jar/org/opensaml/profile/logic/MessageContextPredicateAdapter.java
* /opt/cola/permits/1641307450_1709860370.668945/0/opensaml-profile-api-4-2-0-sources-jar/org/opensaml/profile/context/navigate/OutboundMessageContextLookup.java
* /opt/cola/permits/1641307450_1709860370.668945/0/opensaml-profile-api-4-2-0-sources-jar/org/opensaml/profile/context/navigate/ProfileIdLookup.java
* /opt/cola/permits/1641307450_1709860370.668945/0/opensaml-profile-api-4-2-0-sources-jar/org/opensaml/profile/logic/ProfileIdPredicate.java
* /opt/cola/permits/1641307450_1709860370.668945/0/opensaml-profile-api-4-2-0-sources-jar/org/opensaml/profile/action/package-info.java
* /opt/cola/permits/1641307450_1709860370.668945/0/opensaml-profile-api-4-2-0-sources-jar/org/opensaml/profile/action/ActionSupport.java
* /opt/cola/permits/1641307450_1709860370.668945/0/opensaml-profile-api-4-2-0-sources-jar/org/opensaml/profile/action/ProfileAction.java
* /opt/cola/permits/1641307450_1709860370.668945/0/opensaml-profile-api-4-2-0-sources-jar/org/opensaml/profile/criterion/ProfileRequestContextCriterion.java
* /opt/cola/permits/1641307450_1709860370.668945/0/opensaml-profile-api-4-2-0-sources-jar/org/opensaml/profile/criterion/package-info.java
* /opt/cola/permits/1641307450_1709860370.668945/0/opensaml-profile-api-4-2-0-sources-jar/org/opensaml/profile/action/AbstractHandlerDelegatingProfileAction.java
* /opt/cola/permits/1641307450_1709860370.668945/0/opensaml-profile-api-4-2-0-sources-jar/org/opensaml/profile/context/ProfileRequestContext.java
* /opt/cola/permits/1641307450_1709860370.668945/0/opensaml-profile-api-4-2-0-sources-jar/org/opensaml/profile/action/EventIds.java
* /opt/cola/permits/1641307450_1709860370.668945/0/opensaml-profile-api-4-2-0-sources-jar/org/opensaml/profile/context/package-info.java
* /opt/cola/permits/1641307450_1709860370.668945/0/opensaml-profile-api-4-2-0-sources-jar/org/opensaml/profile/context/navigate/package-info.java
* /opt/cola/permits/1641307450_1709860370.668945/0/opensaml-profile-api-4-2-0-sources-jar/org/opensaml/profile/action/EventException.java
* /opt/cola/permits/1641307450_1709860370.668945/0/opensaml-profile-api-4-2-0-sources-jar/org/opensaml/profile/context/ProxiedRequesterContext.java
* /opt/cola/permits/1641307450_1709860370.668945/0/opensaml-profile-api-4-2-0-sources-jar/org/opensaml/profile/action/AbstractProfileAction.java
*

/opt/cola/permits/1641307450_1709860370.668945/0/opensaml-profile-api-4-2-0-sources-jar/org/opensaml/profile/logic/IPRangePredicate.java
* /opt/cola/permits/1641307450_1709860370.668945/0/opensaml-profile-api-4-2-0-sources-jar/org/opensaml/profile/context/EventContext.java
* /opt/cola/permits/1641307450_1709860370.668945/0/opensaml-profile-api-4-2-0-sources-jar/org/opensaml/profile/context/navigate/InboundMessageContextLookup.java
* /opt/cola/permits/1641307450_1709860370.668945/0/opensaml-profile-api-4-2-0-sources-jar/org/opensaml/profile/logic/PredicateAccessControl.java
* /opt/cola/permits/1641307450_1709860370.668945/0/opensaml-profile-api-4-2-0-sources-jar/org/opensaml/profile/context/PreviousEventContext.java
* /opt/cola/permits/1641307450_1709860370.668945/0/opensaml-profile-api-4-2-0-sources-jar/org/opensaml/profile/logic/NoIntegrityMessageChannelPredicate.java
* /opt/cola/permits/1641307450_1709860370.668945/0/opensaml-profile-api-4-2-0-sources-jar/org/opensaml/profile/logic/BrowserProfilePredicate.java
*
/opt/cola/permits/1641307450_1709860370.668945/0/opensaml-profile-api-4-2-0-sources-jar/org/opensaml/profile/logic/package-info.java
* /opt/cola/permits/1641307450_1709860370.668945/0/opensaml-profile-api-4-2-0-sources-jar/org/opensaml/profile/context/AccessControlContext.java

1.2432 pac4j-saml 5.4.6

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1.2433 opensaml-soap-impl 4.2.0

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* /opt/cola/permits/1641307090_1709860378.3782604/0/opensaml-soap-impl-4-2-0-sources-jar/org/opensaml/soap/wssecurity/impl/AttributedDateTimeUnmarshaller.java
*
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* /opt/cola/permits/1641307090_1709860378.3782604/0/opensaml-soap-impl-4-2-0-sources-jar/org/opensaml/soap/wsaddressing/impl/MessageIDMarshaller.java
* /opt/cola/permits/1641307090_1709860378.3782604/0/opensaml-soap-impl-4-2-0-sources-jar/org/opensaml/soap/wsaddressing/impl/FaultToImpl.java
* /opt/cola/permits/1641307090_1709860378.3782604/0/opensaml-soap-impl-4-2-0-sources-jar/org/opensaml/soap/wsfed/impl/AppliesToUnmarshaller.java
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* /opt/cola/permits/1641307090_1709860378.3782604/0/opensaml-soap-impl-4-2-0-sources-jar/org/opensaml/soap/wstrust/impl/RenewingImpl.java
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* /opt/cola/permits/1641307090_1709860378.3782604/0/opensaml-soap-impl-4-2-0-sources-jar/org/opensaml/soap/soap11/decoder/http/impl/EnvelopeBodyHandler.java
* /opt/cola/permits/1641307090_1709860378.3782604/0/opensaml-soap-impl-4-2-0-sources-jar/org/opensaml/soap/wssecurity/impl/SaltMarshaller.java
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* /opt/cola/permits/1641307090_1709860378.3782604/0/opensaml-soap-impl-4-2-0-sources-jar/org/opensaml/soap/wstrust/impl/ProofEncryptionUnmarshaller.java
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* /opt/cola/permits/1641307090_1709860378.3782604/0/opensaml-soap-impl-4-2-0-sources-jar/org/opensaml/soap/client/soap11/decoder/http/impl/package-info.java
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1.2434 opensaml-storage-api 4.2.0

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* /opt/cola/permits/1641306785_1709860368.9232638/0/opensaml-storage-api-4-2-0-sources-jar/org/opensaml/storage/annotation/Key.java
* /opt/cola/permits/1641306785_1709860368.9232638/0/opensaml-storage-api-4-2-0-sources-jar/org/opensaml/storage/package-info.java
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1.2435 opensaml-profile-impl 4.2.0

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* /opt/cola/permits/1641307165_1709860380.666705/0/opensaml-profile-impl-4-2-0-sources-jar/org/opensaml/profile/action/impl/CheckAccess.java
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* /opt/cola/permits/1641307165_1709860380.666705/0/opensaml-profile-impl-4-2-0-sources-jar/org/opensaml/profile/action/impl/PopulateDecryptionParameters.java
* /opt/cola/permits/1641307165_1709860380.666705/0/opensaml-profile-impl-4-2-0-sources-jar/org/opensaml/profile/action/impl/LogEvent.java
* /opt/cola/permits/1641307165_1709860380.666705/0/opensaml-profile-impl-4-2-0-sources-jar/org/opensaml/profile/action/impl/EncodeMessage.java
* /opt/cola/permits/1641307165_1709860380.666705/0/opensaml-profile-impl-4-2-0-sources-jar/org/opensaml/profile/action/impl/DecodeMessage.java
* /opt/cola/permits/1641307165_1709860380.666705/0/opensaml-profile-impl-4-2-0-sources-jar/org/opensaml/profile/action/impl/HttpServletRequestMessageChannelSecurity.java
* /opt/cola/permits/1641307165_1709860380.666705/0/opensaml-profile-impl-4-2-0-sources-jar/org/opensaml/profile/action/impl/PopulateClientTLSValidationParameters.java

* /opt/cola/permits/1641307165_1709860380.666705/0/opensaml-profile-impl-4-2-0-sources-jar/org/opensaml/profile/action/impl/SetProfileId.java
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*/
/** Message channel confidentiality flag. */
/**
    * Get whether message channel confidentiality
 is active.
    *
    * @return Returns the confidentialityActive.
    */
/**
    * Set whether message channel confidentiality is active.
    *
    * @param flag The confidentialityActive to set.
    */
```

Found in path(s):
* /opt/cola/permits/1641307165_1709860380.666705/0/opensaml-profile-impl-4-2-0-sources-jar/org/opensaml/profile/action/impl/StaticMessageChannelSecurity.java

1.2436 opensaml-messaging-api 4.2.0

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*/
/**
* A subcontext which carries information about whether the message channel in use is
 considered
* to have the active properties of confidentiality and integrity.
*
* <p>
* This data is typically used to determine whether additional application- or protocol-specific signing
* and/or encryption operations are necessary.
* </p>
*/
/** Message channel confidentiality flag. */
/**
    * Get whether message channel confidentiality is active.
    *
    * @return Returns the confidentialityActive.
    */
/**
    * Set whether message channel confidentiality is active.
    *
    * @param flag The confidentialityActive to set.
    */
```

Found in path(s):
* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/context/MessageChannelSecurityContext.java
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* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/encoder/package-info.java
* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/error/MessageErrorHandler.java
* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/decoder/httpclient/HttpClientResponseMessageDecoder.java
* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/MessageException.java
* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/handler/AbstractMessageHandler.java
* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/logic/package-info.java
* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/error/servlet/package-info.java
* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/pipeline/httpclient/BasicHttpClientMessagePipeline.java
* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/context/MessageContext.java
* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/encoder/MessageEncoder.java
* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/decoder/servlet/HttpServletRequestMessageDecoder.java
* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/encoder/httpclient/BaseHttpClientRequestXMLMessageEncoder.java
* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/decoder/httpclient/package-info.java
* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/error/servlet/AbstractHttpServletMessageErrorHandler.java
* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/pipeline/servlet/HttpServletMessagePipelineFactory.java
* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/MessageRuntimeException.java
* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/encoder/servlet/package-info.java
* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-

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* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/encoder/httpclient/HttpClientRequestMessageEncoder.java
*
/opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/handler/MessageHandler.java
* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/context/httpclient/package-info.java
* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/decoder/servlet/package-info.java
* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/error/package-info.java
* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/context/navigate/ContextDataLookupFunction.java
* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/pipeline/servlet/package-info.java
* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/context/navigate/MessageLookup.java
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* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/decoder/MessageDecoder.java
* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/error/TypedMessageErrorHandler.java
* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/context/navigate/package-info.java
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* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/encoder/servlet/HttpServletResponseMessageEncoder.java
*
/opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/encoder/servlet/AbstractHttpServletResponseMessageEncoder.java
* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/decoder/servlet/AbstractHttpServletRequestMessageDecoder.java
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* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/pipeline/BasicMessagePipeline.java
* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/context/navigate/ChildContextLookup.java
*
/opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/pipeline/servlet/BasicHttpServletMessagePipeline.java
* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-

jar/org/opensaml/messaging/pipeline/StaticPipelineNameStrategy.java
* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/decoder/MessageDecodingException.java
* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/handler/MessageHandlerChain.java
* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/encoder/httpclient/package-info.java
* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/decoder/package-info.java
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* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/error/PipelineMessageErrorHandler.java
* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/decoder/AbstractMessageDecoder.java
* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/package-info.java
* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/encoder/MessageEncodingException.java
* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/error/servlet/HttpServletMessageErrorHandler.java
* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/context/ScratchContext.java
*
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* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/context/navigate/RootContextLookup.java
* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/context/InOutOperationContext.java
* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/context/navigate/RecursiveTypedParentContextLookup.java
* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/decoder/servlet/BaseHttpServletRequestXMLMessageDecoder.java
* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/handler/MessageHandlerException.java
*
/opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/logic/NoIntegrityMessageChannelPredicate.java
* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/pipeline/servlet/HttpServletMessagePipeline.java
* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/context/BaseContext.java
* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/context/navigate/MessageContextLookup.java
* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/pipeline/MessagePipeline.java

* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/handler/package-info.java
* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/context/httpclient/HttpClientRequestContext.java
*
 /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/context/navigate/ParentContextLookup.java
* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/encoder/AbstractMessageEncoder.java
* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/context/package-info.java
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*/
/**
* A predicate implementation that indicates whether the message channel does
* <strong>NOT</strong>
 support confidentiality end-to-end.
*
* <p>Typically but not exclusively used as a predicate for whether to encrypt something.</p>
*/
```

Found in path(s):
* /opt/cola/permits/1641306320_1709860369.0673876/0/opensaml-messaging-api-4-2-0-sources-jar/org/opensaml/messaging/logic/NoConfidentialityMessageChannelPredicate.java

1.2437 opensaml-saml-impl 4.2.0

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*
/opt/cola/permits/1641307717_1709860388.9737175/0/opensaml-saml-impl-4-2-0-sources-jar/org/opensaml/saml/ext/saml2mdattr/impl/EntityAttributesMarshaller.java
* /opt/cola/permits/1641307717_1709860388.9737175/0/opensaml-saml-impl-4-2-0-sources-jar/org/opensaml/saml/saml2/core/impl/AuthnContextClassRefBuilder.java
* /opt/cola/permits/1641307717_1709860388.9737175/0/opensaml-saml-impl-4-2-0-sources-jar/org/opensaml/saml/saml2/core/impl/EncryptedAttributeBuilder.java
* /opt/cola/permits/1641307717_1709860388.9737175/0/opensaml-saml-impl-4-2-0-sources-jar/org/opensaml/saml/saml2/ecp/impl/SubjectConfirmationUnmarshaller.java
* /opt/cola/permits/1641307717_1709860388.9737175/0/opensaml-saml-impl-4-2-0-sources-jar/org/opensaml/saml/saml1/core/impl/NameIdentifierBuilder.java
* /opt/cola/permits/1641307717_1709860388.9737175/0/opensaml-saml-impl-4-2-0-sources-jar/org/opensaml/saml/saml1/core/impl/AttributeDesignatorImpl.java
*
/opt/cola/permits/1641307717_1709860388.9737175/0/opensaml-saml-impl-4-2-0-sources-jar/org/opensaml/saml/saml2/assertion/impl/AbstractSubjectConfirmationValidator.java
* /opt/cola/permits/1641307717_1709860388.9737175/0/opensaml-saml-impl-4-2-0-sources-jar/org/opensaml/saml/ext/saml2mdquery/impl/ActionNamespaceBuilder.java
* /opt/cola/permits/1641307717_1709860388.9737175/0/opensaml-saml-impl-4-2-0-sources-jar/org/opensaml/saml/saml2/metadata/impl/IDPSSODescriptorMarshaller.java
* /opt/cola/permits/1641307717_1709860388.9737175/0/opensaml-saml-impl-4-2-0-sources-jar/org/opensaml/saml/saml1/profile/impl/package-info.java
* /opt/cola/permits/1641307717_1709860388.9737175/0/opensaml-saml-impl-4-2-0-sources-jar/org/opensaml/saml/saml2/metadata/impl/EndpointImpl.java
* /opt/cola/permits/1641307717_1709860388.9737175/0/opensaml-saml-impl-4-2-0-sources-jar/org/opensaml/saml/saml2/metadata/impl/OrganizationMarshaller.java
* /opt/cola/permits/1641307717_1709860388.9737175/0/opensaml-saml-impl-4-2-0-sources-jar/org/opensaml/saml/saml2/profile/impl/AddNameIDToSubjects.java
*

/opt/cola/permits/1641307717_1709860388.9737175/0/opensaml-saml-impl-4-2-0-sources-jar/org/opensaml/saml/saml2/metadata/impl/LocalizedNameMarshaller.java
* /opt/cola/permits/1641307717_1709860388.9737175/0/opensaml-saml-impl-4-2-0-sources-jar/org/opensaml/saml/saml2/binding/decoding/impl/package-info.java
* /opt/cola/permits/1641307717_1709860388.9737175/0/opensaml-saml-impl-4-2-0-sources-jar/org/opensaml/saml/saml2/metadata/impl/RoleDescriptorUnmarshaller.java
* /opt/cola/permits/1641307717_1709860388.9737175/0/opensaml-saml-impl-4-2-0-sources-jar/org/opensaml/saml/saml2/metadata/impl/AttributeAuthorityDescriptorImpl.java
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*
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* /opt/cola/permits/1641307717_1709860388.9737175/0/opensaml-saml-impl-4-2-0-sources-jar/org/opensaml/saml/saml1/core/impl/AuthorityBindingBuilder.java
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1.2438 java-support 8.3.1

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1.2441 opensaml-xmlsec-api 4.2.0

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1.2443 pac4j-javaee 5.4.6

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3) [How to implement *pac4j* for a new framework/tool](docs/how-to-implement-pac4j-for-a-new-framework.html)

4) [Tests strategy](docs/tests-strategy.html)

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1.2446 opensaml-xmlsec-impl 4.2.0

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1.2449 threatint-go-net 1.2.28

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1.2450 go-hclog 1.5.0

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1.2451 wrap-ansi 8.1.0

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1.2452 gen-go-parca-dev-parca-bufbuild-connect-go 1.4.1-20221222094228-8b1d3d0f62e6.1

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1.2453 gen-go-parca-dev-parca-protocolbuffers-go 1.28.1-20221222094228-8b1d3d0f62e6.4

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1.2454 unknwon-log 0.0.0-20150304194804-e617c87089d3

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1.2459 zstd 1.4.9

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1.2460 nginx 1.24.0

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1.2461 libverto 0.3.2-r2

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1.2462 pcre 8.45-r3

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1.2463 apr-util 1.6.3-r1

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```
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1.2464 anchore-go-struct-converter 0.0.0-20221118182256-c68fdcfa2092

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Bnd-LastModified: 1655327979490
Build-Jdk: 11.0.15
Built-By: fabian
Bundle-Description: Collectors of data from Java Hotspot.
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Prometheus Java Simpleclient Hotspot
Bundle-SymbolicName: io.prometheus.simpleclient_hotspot
Bundle-Version: 0.16.0
Created-By: Apache Maven Bundle Plugin
Export-Package: io.prometheus.client.hotspot;uses:="io.prometheus.client
";version="0.16.0"
Import-Package: com.sun.management,io.prometheus.client;version="[0.16,1
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Tool: Bnd-2.1.0.20130426-122213

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1.2467 jackson-annotations 2.13.4

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1.2468 jline-remote-ssh 3.21.0

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* /opt/cola/permits/1654518109_1682498162.4242384/0/jline-remote-ssh-3-21-0-sources-2-jar/org/jline/builtins/ssh/ShellFactoryImpl.java
* /opt/cola/permits/1654518109_1682498162.4242384/0/jline-remote-ssh-3-21-0-sources-2-jar/org/jline/builtins/ssh/ShellCommand.java
* /opt/cola/permits/1654518109_1682498162.4242384/0/jline-remote-ssh-3-21-0-sources-2-jar/org/jline/builtins/ssh/Ssh.java

1.2469 jline-remote-telnet 3.21.0

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* /opt/cola/permits/1654518087_1682498090.1005492/0/jline-remote-telnet-3-21-0-sources-2-jar/org/jline/builtins/telnet/ConnectionListener.java
*
 /opt/cola/permits/1654518087_1682498090.1005492/0/jline-remote-telnet-3-21-0-sources-2-jar/org/jline/builtins/telnet/ConnectionFilter.java
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Found in path(s):
* /opt/cola/permits/1654518087_1682498090.1005492/0/jline-remote-telnet-3-21-0-sources-2-jar/META-

INF/maven/org.jline/jline-remote-telnet/pom.xml
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* /opt/cola/permits/1654518087_1682498090.1005492/0/jline-remote-telnet-3-21-0-sources-2-jar/org/jline/builtins/telnet/PortListener.java
*

/opt/cola/permits/1654518087_1682498090.1005492/0/jline-remote-telnet-3-21-0-sources-2-jar/org/jline/builtins/telnet/TelnetIO.java
* /opt/cola/permits/1654518087_1682498090.1005492/0/jline-remote-telnet-3-21-0-sources-2-jar/org/jline/builtins/telnet/ConnectionData.java
* /opt/cola/permits/1654518087_1682498090.1005492/0/jline-remote-telnet-3-21-0-sources-2-jar/org/jline/builtins/telnet/ConnectionEvent.java
* /opt/cola/permits/1654518087_1682498090.1005492/0/jline-remote-telnet-3-21-0-sources-2-jar/org/jline/builtins/telnet/Connection.java
* /opt/cola/permits/1654518087_1682498090.1005492/0/jline-remote-telnet-3-21-0-sources-2-jar/org/jline/builtins/telnet/ConnectionManager.java

1.2470 slf4j-reload4j 1.7.36

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* /opt/cola/permits/1654518094_1682497994.3773751/0/slf4j-reload4j-1-7-36-sources-3-jar/org/slf4j/impl/StaticLoggerBinder.java
* /opt/cola/permits/1654518094_1682497994.3773751/0/slf4j-reload4j-1-7-36-sources-3-jar/org/slf4j/impl/Reload4jMDCAdapter.java

* /opt/cola/permits/1654518094_1682497994.3773751/0/slf4j-reload4j-1-7-36-sources-3-jar/org/slf4j/impl/Reload4jLoggerFactory.java
* /opt/cola/permits/1654518094_1682497994.3773751/0/slf4j-reload4j-1-7-36-sources-3-jar/org/slf4j/impl/StaticMDCBinder.java
* /opt/cola/permits/1654518094_1682497994.3773751/0/slf4j-reload4j-1-7-36-sources-3-jar/org/slf4j/impl/StaticMarkerBinder.java
* /opt/cola/permits/1654518094_1682497994.3773751/0/slf4j-reload4j-1-7-36-sources-3-jar/org/slf4j/impl/Reload4jLoggerAdapter.java

1.2471 pcre2 10.32-3.el8_6

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Written by: Philip Hazel
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1.2472 isl 0.26-r1

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1.2473 mpc1 1.3.1-r1

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1.2474 mpclib 1.3.1-r1

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1.2475 grep 3.6-1+deb11u1

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<signature of Ty Coon>, 1 April 1989
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(including a physical distribution medium), accompanied by a
written offer, valid for at least three years
and valid for as
long as you offer spare parts or customer support for that product
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1.2481 kubelet 0.27.1

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1.2482 kubernetes-apimachinery 0.27.1

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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1.2503 cncf-udpa-go 0.0.0-20220112060539-c52dc94e7fbe

1.2503.1 Available under license :

```
{{!
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~}}

<LicenseInfo
 @startTime={{this.model.startTime}}
 @expirationTime={{this.model.expirationTime}}
 @licenseId={{this.model.licenseId}}
 @features={{this.model.features}}
 @autoloaded={{this.model.autoloaded}}
 @performanceStandbyCount={{this.model.performanceStandbyCount}}
/>
---
layout: docs
page_title: Automated license utilization reporting
description: >-
 Learn what data HashiCorp collects to meter Enterprise license utilization. Enable or disable reporting. Review sample payloads and logs.
---

# Automated license utilization reporting

@include 'alerts/enterprise-only.mdx'

Automated license utilization reporting sends license utilization data to
HashiCorp without requiring you to manually collect and report them. It also
lets you review your license usage with the monitoring solution you already use
(for example Splunk, Datadog, or others) so you can optimize and manage your
deployments. Use these reports to understand how much more you can deploy under
your current contract, protect against overutilization, and budget for predicted
consumption.

Automated reporting shares the minimum data required to validate license
utilization as defined in our contracts. They consist of mostly computed metrics
and will never contain Personal Identifiable Information
 (PII) or other
sensitive information. Automated reporting shares the data with HashiCorp using
a secure, unidirectional HTTPS API and makes an auditable record in the product
```

logs each time it submits a report. The reporting process is GDPR compliant and submits reports roughly once every 24 hours.

Enable automated reporting

To enable automated reporting, you need to make sure that outbound network traffic is configured correctly and upgrade your enterprise product to a version that supports it. If your installation is air-gapped or network settings are not in place, automated reporting will not work.

1. allow outbound HTTPS traffic on port 443

Make sure that your network allows HTTPS egress on port 443 to https://reporting.hashicorp.services by allow-listing the following IP addresses:

- 100.20.70.12
- 35.166.5.222
- 23.95.85.111
- 44.215.244.1

2. upgrade

Upgrade to a release that supports license utilization reporting. These releases include:

- [Vault Enterprise
 1.14.0](https://releases.hashicorp.com/vault/) and later
- [Vault Enterprise 1.13.4](https://releases.hashicorp.com/vault/) and later 1.13.x versions
- [Vault Enterprise 1.12.8](https://releases.hashicorp.com/vault/) and later 1.12.x versions
- [Vault Enterprise 1.11.12](https://releases.hashicorp.com/vault/)

3. check logs

Automatic license utilization reporting will start sending data within roughly 24 hours. Check the server logs for records that the data sent successfully.

You will find log entries similar to the following:

<CodeBlockConfig hideClipboard>

```
[DEBUG] core.reporting: beginning snapshot export
[DEBUG] core.reporting: creating payload
[DEBUG] core.reporting: marshalling payload to json
[DEBUG] core.reporting: generating authentication headers
[DEBUG] core.reporting: creating request
[DEBUG] core.reporting: sending request
```

```
[DEBUG] core.reporting: performing request: method=POST url=https://reporting.hashicorp.services
[DEBUG] core.reporting: recording audit
 record
[INFO]  core.reporting: Report sent:
auditRecord="{\"payload\":{\"payload_version\":\"1\",\"license_id\":\"97afe7b4-b9c8-bf19-bf35-
b89b5cc0efea\",\"product\":\"vault\",\"product_version\":\"1.14.0-rc1+ent\",\"export_timestamp\":\"2023-06-
01T09:34:44.215133-
04:00\",\"snapshots\":[{\"snapshot_version\":1,\"snapshot_id\":\"0001J7H7KMEDRXKM5C1QJGBXV3\",\"proces
s_id\":\"01H1T45CZK2GN9WR22863W2K32\",\"timestamp\":\"2023-06-01T09:34:44.215001-
04:00\",\"schema_version\":\"1.0.0\",\"service\":\"vault\",\"metrics\":{\"clientcount.current_month_estimate\":{\"key
\":\"clientcount.current_month_estimate\",\"kind\":\"sum\",\"mode\":\"write\",\"labels\":{\"type\":{\"entity\":20,\"no
nentity\":11}}},\"clientcount.previous_month_complete\":{\"key\":\"clientcount.previous_month_complete\",\"kind\
":\"sum\",\"mode\":\"write\",\"labels\":{\"type\":{\"entity\":10,\"nonentity\":11}}}}}],\"metadata\":{\"vault\":{\"billi
ng_start\":\"2023-03-01T00:00:00Z\",\"cluster_id\":\"a8d95acc-ec0a-6087-d7f6-4f054ab2e7fd\"}}}}"
[DEBUG]
 core.reporting: completed recording audit record
[DEBUG] core.reporting: export finished successfully
```

</CodeBlockConfig>

If your installation is air-gapped or your network doesnt allow the correct
egress, logs will show an error.

<CodeBlockConfig hideClipboard>

```
[DEBUG] core.reporting: beginning snapshot export
[DEBUG] core.reporting: creating payload
[DEBUG] core.reporting: marshalling payload to json
[DEBUG] core.reporting: generating authentication headers
[DEBUG] core.reporting: creating request
[DEBUG] core.reporting: sending request
[DEBUG] core.reporting: performing request: method=POST url=https://reporting.hashicorp.services
[DEBUG] core.reporting: error status code received: statusCode=403
```

</CodeBlockConfig>

In this case, reconfigure your network to allow egress and check back in 24
hours.

Opt out

If your installation is air-gapped or you want to manually collect and report on
the same license utilization metrics, you can opt-out
 of automated reporting.

Manually reporting these metrics can be time consuming. Opting out of automated reporting does not mean that you also opt out from sending license utilization metrics. Customers who opt out of automated reporting will still be required to manually collect and send license utilization metrics to HashiCorp.

If you are considering opting out because youre worried about the data, we strongly recommend that you review the [example payloads](#example-payloads) before opting out. If you have concerns with any of the automatically-reported data please bring them to your account manager.

You have two options to opt out of automated reporting:

- HCL configuration (recommended)
- Environment variable (requires restart)

HCL configuration

Opting out in your products configuration file doesnt require a system restart, and is the method we recommend. Add the following block to your server configuration file (e.g. `vault-config.hcl`).

```hcl
reporting {
 license
 {
  enabled = false
  }
}
```

<Warning>

When you have a cluster, each node must have the reporting stanza in its configuration to be consistent. In the event of leadership change, nodes will use its server configuration to determine whether or not to opt-out the automated reporting. Inconsistent configuration between nodes will change the reporting status upon active unseal.

</Warning>

You will find the following entries in the server log.

<CodeBlockConfig hideClipboard>

```
[DEBUG] core: reloading automated reporting
```

```
[INFO]  core: opting out of automated reporting
[DEBUG] activity: there is no reporting agent configured, skipping counts reporting
```

</CodeBlockConfig>

Environment variable

If you need to, you can also opt out using an environment variable, which will provide a startup message confirming that you have disabled automated reporting. This option requires a system restart.

<Note>

If the reporting stanza exists in the configuration file, the `OPTOUT_LICENSE_REPORTING` value overrides the configuration.

</Note>

Set the following environment variable.

```shell-session
$ export OPTOUT_LICENSE_REPORTING=true
```

Now, restart your [Vault servers](/vault/docs/commands/server) from the shell where you set the environment variable.

You will find the following entries in the server log.

<CodeBlockConfig hideClipboard>

```
[INFO]  core: automated reporting disabled via environment variable: env=OPTOUT_LICENSE_REPORTING
[INFO]  core: opting out of automated reporting
[DEBUG] activity: there is no reporting agent configured, skipping counts reporting
```

</CodeBlockConfig>

Check your product logs roughly 24 hours after opting out to make sure that the system isnt trying to send reports.

If your configuration file and environment variable differ, the environment variable setting will take precedence.

Example payloads

HashiCorp collects the following utilization data as JSON payloads:

- `payload_version` - The version of this payload
 schema
- `license_id` - The license ID for this product
- `product` - The product that this contribution is for
- `product_version` - The product version this contribution is for
- `export_timestamp`- The date and time for this contribution
- `snapshots` - An array of snapshot details. A snapshot is a structure that
 represents a single data collection
  - `snapshot_version` - The version of the snapshot package that produced this
    snapshot
  - `snapshot_id` - A unique identifier for this particular snapshot
  - `process_id` - An identifier for the system that produced this snapshot
  - `timestamp` - The date and time for this snapshot
  - `schema_version` - The version of the schema associated with this snapshot
  - `service` - The service that produced this snapshot (likely to be product
    name)
  - `metrics` - A map of representations of snapshot metrics contained within
    this snapshot
    - `key` - The key name associated with this metric
    - `kind`
 - The kind of metric (feature, counter, sum, or mean)
    - `mode` - The mode of operation associated with this metric (write or
      collect)
    - `labels` - The labels associated with each collected metric
      - `entity` - The sum of tokens generated for a unique client identifier
      - `nonentity` - The sum of tokens without an entity attached
- `metadata` - Optional product-specific metadata
  - `billing_start` - The billing start date associated with the reporting cluster (license start date if not configured)
  - `cluster_id` - The cluster UUID as shown by `vault status` on the reporting
    cluster

<CodeBlockConfig hideClipboard>

```json
{
 "payload_version": "1",
 "license_id": "97afe7b4-b9c8-bf19-bf35-b89b5cc0efea",
 "product": "vault",
 "product_version": "1.14.0-rc1+ent",
 "export_timestamp": "2023-06-01T11:39:00.76643-04:00",
 "snapshots": [
   {
    "snapshot_version": 1,
    "snapshot_id": "0001J7HEWM1PEHPMF5YZT8EV65",
```

```
    "process_id":
 "01H1VSQMNYAP77R566F1Y03GE6",
    "timestamp": "2023-06-01T11:39:00.766099-04:00",
    "schema_version": "1.0.0",
    "service": "vault",
    "metrics": {
      "clientcount.current_month_estimate": {
        "key": "clientcount.current_month_estimate",
        "kind": "sum",
        "mode": "write",
        "labels": {
          "type": {
            "entity": 20,
            "nonentity": 11
          }
        }
      },
      "clientcount.previous_month_complete": {
        "key": "clientcount.previous_month_complete",
        "kind": "sum",
        "mode": "write",
        "labels": {
          "type": {
            "entity": 10,
            "nonentity": 11
          }
        }
      }
    }
  }
 ],
 "metadata": {
   "vault": {
     "billing_start": "2023-03-01T00:00:00Z",
     "cluster_id": "a8d95acc-ec0a-6087-d7f6-4f054ab2e7fd"
   }
 }
}
```


</CodeBlockConfig>

Pre-1.9 counts

When upgrading Vault from 1.8 (or
 earlier) to 1.9 (or later), utilization reporting will only include the [non-entity tokens](/vault/docs/concepts/client-count#non-entity-tokens) that are used after the upgrade.

Starting in Vault 1.9, the activity log records and de-duplicates non-entity tokens by using the namespace and token's policies to generate a unique identifier. Because Vault did not create identifiers for these tokens before 1.9, the activity log cannot know whether this token has been seen pre-1.9. To prevent inaccurate and inflated counts, the activity log will ignore any counts of non-entity tokens that were created before the upgrade and only the non-entity tokens from versions 1.9 and later will be counted.

See the client count [overview](/vault/docs/concepts/client-count) and [FAQ](/vault/docs/concepts/client-count/faq) for more information.

```
{{!
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~}}

{{#if (and this.licenseExpired (not this.expiredDismissed))}}
 <Hds::Alert
   @type="inline"
   @color="critical"
   @onDismiss={{fn this.dismissBanner "expired"}}
   data-test-license-banner-expired
   as |A|
 >
   <A.Title>License expired</A.Title>
   <A.Description>
     Your Vault license expired on
     {{date-format @expiry "MMM d, yyyy"}}. Add a new license to your configuration and restart Vault.
   </A.Description>
   <A.Description class="has-top-margin-xs">
     <DocLink @path="/vault/tutorials/enterprise/hashicorp-enterprise-license">
       Read documentation
       <Icon @name="learn-link" />
     </DocLink>
   </A.Description>
 </Hds::Alert>
{{else if (and (lte this.licenseExpiringInDays 30) (not this.warningDismissed))}}
 <Hds::Alert
   @type="inline"
   @color="warning"
   @onDismiss={{fn this.dismissBanner "warning"}}
   data-test-license-banner-warning
   as |A|
 >
    <A.Title>Vault license expiring</A.Title>
   <A.Description>
     Your Vault license will expire in
     {{this.licenseExpiringInDays}}
     days at
     {{date-format @expiry "hh:mm:ss a"}}
     on
```

```
    {{date-format @expiry "MMM d, yyyy"}}.
    {{if
      @autoloaded
      "Add a new license to your configuration."
      "Keep in mind that your next license will need to be autoloaded."
    }}
  </A.Description>
  <A.Description class="has-top-margin-xs">
    <DocLink @path="/vault/tutorials/enterprise/hashicorp-enterprise-license">
      Read documentation
      <Icon @name="learn-link" />
    </DocLink>
  </A.Description>
 </Hds::Alert>
{{/if}}
---
layout: docs
page_title: license get - Command
description: |-
 The "license get" command reports on the license in use.
---

# license get

The `license get` command reports on the license in use.  With the `-signed`
flag, it will return the actual license string, but only if the license
is stored, as opposed to [autoloaded](/vault/docs/enterprise/license/autoloading).

## Examples

Describe current license:

```shell-session
$ vault license get
Key                     Value
---                     -----
expiration_time         2022-05-17T23:59:59Z
features                [HSM Performance Replication DR Replication MFA Sentinel Seal Wrapping Control Groups
Performance Standby Namespaces KMIP Entropy Augmentation Transform Secrets Engine Lease Count Quotas
Key Management Secrets Engine Automated Snapshots]
license_id              060d7820-fa59-f95c-832b-395db0aeb9ba
performance_standby_count    9999
start_time              2021-05-17T00:00:00Z
termination_time
          2031-05-17T23:59:59Z
```

Get stored license string:
```

```shell-session
$ vault license get -signed
02MV4UU43BK5H...
```

Try to get stored license string when using autoloading:

```shell-session
$ vault license get -signed
License not found or using a temporary license.
```

Usage

The following flags are available in addition to the [standard set of flags](/vault/docs/commands) included on all commands.

Command options

- `-signed` `(bool: false)` - Return the signed license string when using a stored license.

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```
---
layout: api
page_title: /sys/license/status - HTTP API
description: |-
 The `/sys/license/status` endpoint is used to view the license used in
 Vault.
---

# `/sys/license/status`

@include 'alerts/enterprise-only.mdx'

The `/sys/license/status` endpoint is used to view update the license used in
Vault.

## License status

This endpoint returns information about licensing. See [license
autoloading](/vault/docs/enterprise/license/autoloading) for additional background.

In the response:

- `autoloading_used` will be true if an autoloaded license was provided to the
 node, false otherwise. This should always be true from Vault 1.11.0 onward.
- `autoloaded` is the autoloaded license if autoloading_used is true.
- `persisted_autoload` is the autoloaded license the active node last wrote to
 storage; this is only used to detect inconsistently licensed nodes in the
 cluster. It cannot be used as a license itself.
- `stored` was used for the stored license prior to Vault 1.11.0. Stored
 licenses are no longer supported.

`autoloaded`, and `persisted_autoload` will both have the same structure.
```

Method	Path
`GET`	`/sys/license/status`

Sample request

```shell-session
$ curl \
   --header "X-Vault-Token: ..." \
   http://127.0.0.1:8200/v1/sys/license/status
```

Sample response

```json
{
 "data": {
   "autoloading_used": true,
   "autoloaded": {
     "expiration_time": "2022-05-17T23:59:59Z",
     "features": [
       "HSM",
       "Performance Replication",
       "DR Replication",
       "MFA",
       "Sentinel",
       "Seal Wrapping",
       "Control Groups",
       "Performance Standby",
       "Namespaces",
       "KMIP",
       "Entropy Augmentation",
       "Transform Secrets Engine",
       "Lease Count Quotas",
       "Key Management Secrets Engine",
       "Automated Snapshots"
     ],
     "license_id": "060d7820-fa59-f95c-832b-395db0aeb9ba",
     "performance_standby_count":
 9999,
     "start_time": "2021-05-17T00:00:00Z",
     "termination_time": "2031-05-17T23:59:59Z"
   },
   "persisted_autoload": {
     "expiration_time": "2022-05-17T23:59:59Z",
     "features": [
       "HSM",
       "Performance Replication",
```

"DR Replication",
"MFA",
"Sentinel",
"Seal Wrapping",
"Control Groups",
"Performance Standby",
"Namespaces",
"KMIP",
"Entropy Augmentation",
"Transform Secrets Engine",
"Lease Count Quotas",
"Key Management Secrets Engine",
"Automated Snapshots"
],
"license_id": "060d7820-fa59-f95c-832b-395db0aeb9ba",
"performance_standby_count": 9999,
"start_time": "2021-05-17T00:00:00Z",
"termination_time": "2031-05-17T23:59:59Z"
}
}
}
```
{{!
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~}}

<PageHeader as |p|>
 <p.levelLeft>
   <h1 class="title is-3">License</h1>
 </p.levelLeft>
</PageHeader>

<section class="box is-sideless is-marginless is-shadowless is-fullwidth">
 <span class="title is-5">Details</span>
 <div class="field box is-fullwidth is-shadowless is-paddingless is-marginless">
   <InfoTableRow @label="License ID" @value={{@licenseId}} data-test-detail-row />
   <InfoTableRow @label="Valid from" @value={{@startTime}} data-test-detail-row>
     {{date-format @startTime "MMM dd, yyyy hh:mm:ss a"}}
     to
     {{date-format @expirationTime "MMM dd, yyyy hh:mm:ss a"}}
   </InfoTableRow>
   <InfoTableRow @label="License state" @value={{"Autoloaded"}} data-test-detail-row />
 </div>
</section>

<section class="box is-sideless is-marginless is-shadowless is-fullwidth">
 <span class="title is-5">Features</span>
```

```
 <div class="field box is-fullwidth is-shadowless is-paddingless is-marginless">
   {{#each this.featuresInfo as |info|}}
    <InfoTableRow @label={{info.name}} @value={{if info.active "Active" "Not Active"}} data-test-feature-row>
      {{#if info.active}}
        <Icon @name="check-circle" class="icon-true" />
        <span data-test-feature-status>
          Active
          {{#if info.count}}&mdash; {{info.count}} standby nodes allotted{{/if}}
        </span>
      {{else}}
        <Icon @name="x-circle" class="icon-false" />
        <span data-test-feature-status>Not Active</span>
      {{/if}}
    </InfoTableRow>
  {{/each}}
 </div>
</section>
```

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```
---
layout: docs
page_title: Vault Enterprise License
description: An overview of license.
---

# Vault license

@include 'alerts/enterprise-only.mdx'
```

Licenses and EULA enhancements have been introduced in Vault 1.8 release. Please refer to the [FAQ](/vault/docs/enterprise/license/faq) for common questions concerning these changes.

The [Install a HashiCorp Enterprise License](/vault/tutorials/enterprise/hashicorp-enterprise-license) tutorial provides the instruction to load your Vault license.
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SOFTWARE.
---
layout: docs
page_title: Frequently Asked Questions (FAQ)
description: An overview of license.

License FAQ

This FAQ section is for license changes and updates introduced for Vault Enterprise.
- [Q: How do the license termination changes affect upgrades?](#q-how-do-the-license-termination-changes-affect-upgrades)
- [Q: What impact on upgrades do the license termination behavior changes pose?](#q-what-impact-on-upgrades-do-the-license-termination-behavior-changes-pose)
- [Q: Will these license changes impact HCP Vault?](#q-will-these-license-changes-impact-hcp-vault)
- [Q: Do these license changes impact all Vault customers/licenses?](#q-do-these-license-changes-impact-all-vault-customers-licenses)
- [Q: What is the product behavior change introduced by the licensing changes?](#q-what-is-the-product-behavior-change-introduced-by-the-licensing-changes)
- [Q: How will Vault behave at startup when a license expires or terminates?](#q-how-will-vault-behave-at-startup-when-a-license-expires-or-terminates)

-
[Q: What is the impact on evaluation licenses due to this change?](#q-what-is-the-impact-on-evaluation-licenses-due-to-this-change)
- [Q: Are there any changes to existing methods for manual license loading (API or CLI)?](#q-are-there-any-changes-to-existing-methods-for-manual-license-loading-api-or-cli)
- [Q: Is there a grace period when evaluation licenses expire?](#q-is-there-a-grace-period-when-evaluation-licenses-expire)
- [Q: Are the license files locked to a specific cluster?](#q-are-the-license-files-locked-to-a-specific-cluster)
- [Q: Will a EULA check happen every time a Vault restarts?](#q-will-a-eula-check-happen-every-time-a-vault-restarts)
- [Q: What scenarios should a customer plan for due to these license changes?](#q-what-scenarios-should-a-customer-plan-for-due-to-these-license-changes)
- [Q: What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?](#q-what-is-the-migration-path-for-customers-who-want-to-migrate-from-their-existing-license-as-applied-via-the-cli-flow-to-the-license-on-disk-flow)
-
[Q: What is the path for customers who want to downgrade/rollback from Vault 1.11 or later (auto-loaded license mandatory) to a pre-Vault 1.11 (auto-loading not mandatory, stored license supported)?](#q-what-is-the-path-for-customers-who-want-to-downgrade-rollback-from-vault-1-11-or-later-auto-loaded-license-mandatory-to-a-pre-vault-1-11-auto-loading-not-mandatory-stored-license-supported)
- [Q: Is there a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)
- [Q: What are the steps to upgrade from one autoloaded license to another autoloaded license?](#q-what-are-the-steps-to-upgrade-from-one-autoloaded-license-to-another-autoloaded-license)
- [Q: What are the Vault ADP module licensing changes introduced in 1.8?](#q-what-are-the-vault-adp-module-licensing-changes-introduced-in-1-8)
-
[Q: How can the new ADP modules be purchased and what features are customer entitled to as part of that purchase?](#q-how-can-the-new-adp-modules-be-purchased-and-what-features-are-customer-entitled-to-as-part-of-that-purchase)
- [Q: What is the impact to customers based on these ADP module licensing changes?](#q-what-is-the-impact-to-customers-based-on-these-adp-module-licensing-changes)

Q: what is the product behavior change introduced by the licensing changes?

Per the [feature deprecation plans](/vault/docs/deprecation), Vault will no longer support licenses in storage. An [auto-loaded license](/vault/docs/enterprise/license/autoloading) must be used instead. If you are using stored licenses, you must migrate to auto-loaded licenses prior to upgrading to Vault 1.11

Vault 1.12 will also introduce different termination behavior for evaluation licenses versus non-evaluation licenses. An evaluation license will include a 30-day trial period after which a running
Vault server will terminate. Vault servers using a non-evaluation license will not terminate.

Q: how do the license termination changes affect upgrades?
Vault 1.12 will introduce changes to the license termination behavior. Upgrades when using expired licenses will now be limited.
Vault will not startup if the build date of the binary is _after_ the expiration date of a license. License expiration date and binary build date compatibility can be verified using the [Check for Autoloaded

License](/vault/docs/commands/operator/diagnose#check-for-autoloaded-license) check performed by the `vault operator diagnose` command.
The build date of a binary can also be found using the [vault version](/vault/docs/commands/version#version) command.

A user can expect the following to occur based on the following scenarios:

Evaluation or non-evaluation license is valid:
Vault will start normally

Evaluation or non-evaluation license is expired, binary build date _before_ license expiry date:
Vault will start normally

Evaluation or non-evaluation license is expired, binary build date _after_ license expiry date:
Vault will not start

Evaluation license is terminated:
Vault will not start independent of the binary's build date

Non-evaluation license is terminated, binary build date _before_ license expiry date:
Vault will start normally

Non-evaluation license is terminated, binary build date _after_ license expiry date:
Vault will not start

The Vault support team can issue you a temporary evaluation license to allow for security upgrades if your license has expired.

Q: will these license changes impact HCP Vault?

No, these changes will not impact HCP Vault.

Q: do these license changes impact all Vault customers/licenses?

Customer/licenses	Impacted?
ENT binaries (evaluation or non-evaluation downloaded from [releases.hashicorp.com](https://releases.hashicorp.com/vault/))	Yes
Business-Source (BSL)	No

Q: what is the product behavior change introduced by the licensing changes?

With Vault 1.11, the use of an [auto-loaded license](/vault/docs/enterprise/license/autoloading) is required for Vault to start successfully.

Q: how will Vault behave at startup when a license expires or terminates?

When a license expires, Vault continues to function until the license terminates. This behavior exists today and remains unchanged in Vault 1.11. The grace period, defined as the time between license expiration and license termination, is one day for evaluation licenses (as of 1.8), and ten years for non-evaluation licenses.
Customers must provide a
valid license before the grace period expires. This license is required to be [auto-loaded](/vault/docs/enterprise/license/autoloading). When license terminates (upon grace period expiry), Vault will seal itself and customers will need a valid license in order to successfully bring-up Vault. If a valid license was not installed after license expiry, customers will need to provide one, and this license will need to be auto-loaded.

Vault 1.12 changes the license expiration and termination behavior. Evaluation licenses include a 30-day trial period after which a running Vault server will terminate. Non-evaluation licenses, however, will no longer terminate. When a non-evaluation license expires, Vault will continue to function but upgrades will be limited. The build date of the upgrade binary must be before the expiration date of the license.
Vault will not start when attempting to use an expired license and binary with a build date _after_ the license expiration date. Attempting to [reload](/vault/api-docs/system/config-reload#reload-license-file)
an expired license will result in an error if the build date of the running Vault server is _after_ the license expiration date.

License expiration date and binary build date compatibility can be verified using the [Check for Autoloaded License](/vault/docs/commands/operator/diagnose#check-for-autoloaded-license) check performed by the `vault operator diagnose` command. The build date of a binary can also be found using the [vault version](/vault/docs/commands/version#version) command.

Q: what is the impact on evaluation licenses due to this change?

As of Vault 1.8, any Vault cluster deployed must have a valid [auto-loaded](/vault/docs/enterprise/license/autoloading) license.

Vault 1.12 introduces [expiration and termination behavior changes](#q-how-will-vault-behave-at-startup-when-a-license-expires-or-terminates) for non-evaluation licenses. Evaluation licenses will continue to have a 1-day grace period upon license
expiry after which they will terminate. Vault will seal itself and shutdown once an evaluation license terminates.

Q: are there any changes to existing methods for manual license loading (API or CLI)?

The [`/sys/license`](/vault/api-docs/v1.10.x/system/license#install-license) and [`/sys/license/signed`](/vault/api-docs/v1.10.x/system/license#read-signed-license) endpoints have been removed as of Vault 1.11. With that said, it is no longer possible to provide a license via the `/sys/license` endpoint. License [auto-loading](/vault/docs/enterprise/license/autoloading) must be used instead.
The [`/sys/config/reload/license`](/vault/api-docs/system/config-reload#reload-license-file) endpoint can be used to reload an auto-loaded license provided as a path via an environment variable or configuration.

Q: is there a grace period when evaluation licenses expire?

Evaluation licenses have a 1-day grace period. The grace period is the time until the license expires. Upon expiration,

Vault will seal and will require a valid license to unseal and function properly.

Q: are the license files locked to a specific cluster?

The changes to licenses apply to all nodes in a cluster. The license files are not locked to a cluster, but are independently applied to the appropriate clusters.

Q: will a EULA check happen every time a Vault restarts?

Yes, starting with Vault 1.8, ENT binaries will be subjected to a EULA check. The release of Vault 1.8 introduces the EULA check for evaluation licenses (non-evaluation licenses are evaluated with a EULA check during contractual agreement) .
Although the agreement to a EULA occurs only once (when the user receives their license), Vault will check for the presence of a valid license every time a node is restarted.

Starting Vault 1.11, when customers deploy new Vault clusters, or upgrade existing Vault clusters, a valid [auto-loaded](/vault/docs/enterprise/license/autoloading) license must exist for the upgrade to be successful.

###
Q: what scenarios should a customer plan for due to these license changes?

- **New Cluster Deployment**: When a customer deploys new clusters to Vault 1.11 or later, a valid license must exist to successfully deploy. This valid license must be on-disk ([auto-loaded](/vault/docs/enterprise/license/autoloading)).

- **Eventual Migration**: Vault 1.11 removes support for in-storage licenses. Migrating to an auto-loaded license is required for Vault to start successfully using version 1.11 or greater. Pre-existing license storage entries will be automatically removed from storage upon startup.

Q: what is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?

If a Vault cluster using a stored license is planned to be upgraded to Vault 1.11 or greater, the operator must migrate to using an auto-loaded license. The [`vault license get -signed`](/vault/docs/v1.10.x/commands/license/get) command
(or underlying [`/sys/license/signed`](/vault/api-docs/v1.10.x/system/license#read-signed-license) endpoint) can be used to retrieve the license from storage in a running cluster.
It is not necessary to remove the stored license entry. That will occur automatically upon startup in Vault 1.11 or greater. Prior to completing the [recommended upgrade steps](/vault/docs/upgrading), perform the following to ensure your license is properly configured:

1. Use the command `vault license get -signed` to retrieve the license from storage of your running cluster.
2. Put the license on disk
3. Configure license auto-loading by specifying the [`license_path`](/vault/docs/configuration#license_path) config option or setting the [`VAULT_LICENSE`](/vault/docs/commands#vault_license) or [`VAULT_LICENSE_PATH`](/vault/docs/commands#vault_license_path) environment variable.

Q: what is the path for customers who want to downgrade/rollback from Vault 1.11 or later (auto-loaded license

mandatory) to
a pre-Vault 1.11 (auto-loading not mandatory, stored license supported)?

The downgrade procedure remains the same for Vault customers who are currently on Vault 1.11 or later, have a license installed via auto-loading, and would like to downgrade their cluster to a pre-1.11 version. Please refer to the [upgrade procedures](/vault/tutorials/standard-procedures/sop-upgrade) that remind the customers that they must take a snapshot before the upgrade. Customers will need to restore their version from the snapshot, apply the pre-1.11 enterprise binary version they wish to roll back, and bring up the clusters.

Q: is there a limited time for support of licenses that are in storage?

The support of licenses installed by alternative means often leads to difficulties providing the appropriate support. To provide the support expected by our customers, as we have announced in [Vault feature deprecations and plans](/vault/docs/deprecation) we are removing support for licenses in storage with
Vault 1.11. This implies licensing endpoints that deal with licenses in storage will be removed, and Vault will no longer check for valid licenses in storage. This change requires that all customers have [auto-loaded](/vault/docs/enterprise/license/autoloading) licenses to upgrade to 1.11(+) successfully.

Q: what are the steps to upgrade from one autoloaded license to another autoloaded license?

Follow these steps to migrate from one autoloaded license to another autoloaded license.

1. Use the [`vault license inspect`](/vault/docs/commands/license/inspect) command to compare the new license against the output of the [`vault license get`](/vault/docs/commands/license/get) command. This is to ensure that you have the correct license.
1. Backup the old license file in a safe location.
1. Replace the old license file on each Vault server with the new one.
1. Invoke the [reload command](/vault/api-docs/system/config-reload#reload-license-file) on each individual Vault server, starting
with the standbys and doing the leader last. Invoking in this manner reduces possible disruptions if something was performed incorrectly with the above steps. You can either use the [reload command](/vault/api-docs/system/config-reload#reload-license-file) or send a SIGHUP.
1. On each node, ensure that the new license is in use by using the [`vault license get`](/vault/docs/commands/license/get) command and/or checking the logs.

ADP licensing

This FAQ section is for the Advanced Data Protection (ADP) license changes introduced in Vault Enterprise 1.8.

Q: what are the Vault ADP module licensing changes introduced in 1.8?

As of Vault Enterprise 1.8, the functionality formerly sold as the Vault ADP module is now separated between two new modules:

ADP-KM includes:

- [Key Management Secrets Engine (KMSE)](/vault/docs/secrets/key-management)
- [Key Management Interoperability (KMIP)](/vault/docs/secrets/kmip)

- [MSSQL Transparent Data Encryption (TDE)](https://www.hashicorp.com/blog/enabling-transparent-data-encryption-for-microsoft-sql-with-vault)

ADP-Transform
 includes:

- [Transform Secrets Engine (TSE)](/vault/docs/secrets/transform)

Q: how can the new ADP modules be purchased and what features are customer entitled to as part of that purchase?

ADP-KM includes:

- This is the first Vault Enterprise module that can be purchased standalone. This means it can be purchased without the purchase of a Vault Enterprise Standard license.
- ADP-KM still requires a Vault Enterprise binary. The Vault Enterprise Standard license is automatically included with the ADP-KM module, but customers are contractually prohibited from using any features besides those in Vault Community Edition and ADP-KM (KMSE and KMIP).

ADP-Transform includes:

- This module cannot be purchased as a standalone. It requires a Vault Enterprise binary, and customers must purchase the base Vault Enterprise Standard license (at least) to use the corresponding Enterprise features.
-
 The ADP-Transform SKU can be applied as an add-on. This workflow is similar to the consolidated ADP SKU.

Q: what is the impact to customers based on these ADP module licensing changes?

Customers need to be aware of the following as a result of these changes:

- **New customers** may choose to purchase either or both of these modules. The old (consolidated) module is not available to them as an option.
- **Existing customers** may continue with the consolidated Vault ADP module uninterrupted. They will only be converted to one or both new ADP modules the next time they make a change to their licensing details (i.e. contract change).
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```
variable "file_name" {}

output "license" {
 value = file(var.file_name)
}
```
---
layout: docs
page_title: License Autoloading
description: An overview of license autoloading.

License autoloading

@include 'alerts/enterprise-only.mdx'

Prior to Vault 1.8, Vault Enterprise would be licensed using special binaries
that contained embedded licenses, or via a license written into Vault storage
using the [POST sys/license API](/vault/api-docs/system/license#install-license).

As of Vault 1.8 those options still exist but are deprecated, and the recommended
mechanism for managing licenses is called License Autoloading. New clusters are
required to use the autoloading method.

License Autoloading can be done using one of these mechanisms, in decreasing order
of priority (i.e. `VAULT_LICENSE` takes precedence over `VAULT_LICENSE_PATH`, which
takes precedence over `license_path` in config.)

- [VAULT_LICENSE environment variable](/vault/docs/commands#vault_license)
- [VAULT_LICENSE_PATH environment variable](/vault/docs/commands#vault_license_path)
- [license_path in
 config](/vault/docs/configuration#license_path)

Nodes within a cluster should be consistently licensed. All nodes in a cluster
should use autoloading, or none should. If autoloading is used, all nodes should
use the same license string. Warnings will be written to the log when there
are discrepancies.

If autoloading is used, any existing stored license will be ignored. The presence
of a stored license in conjunction with an autoloaded license will also result in
logged warnings, which may require a service restart to clear.
---
layout: docs
page_title: license inspect - Command
description: |-
 The "license inspect" command describes the contents of a signed license string.
---

license inspect

The `license inspect` command describes the contents of a signed license string.

Examples

Describe license in the environment (either `VAULT_LICENSE` for a raw value
or `VAULT_LICENSE_PATH` for the path to a file containing the value):

```shell-session
$ vault license inspect
```

Source: /Users/ncc/vaults/license
Product: vault
License ID: 060d7820-fa59-f95c-832b-395db0aeb9ba
Customer ID: 5401ae3b-136b-3e47-3b43-432927fa03e7
Installation ID: *
Issue Time: 2021-05-17 19:33:47.93981585 +0000 UTC
Start Time: 2021-05-17 00:00:00 +0000 UTC
Expiration Time: 2022-05-17 23:59:59.999 +0000 UTC
Termination Time: 2031-05-17 23:59:59.999 +0000 UTC
{"license_id":"060d7820-fa59-f95c-832b-395db0aeb9ba","customer_id":"5401ae3b-136b-3e47-3b43-432927fa03e7","installation_id":"*","issue_time":"2021-05-17T19:33:47.93981585Z","start_time":"2021-05-17T00:00:00Z","expiration_time":"2022-05-17T23:59:59.999Z","flags":{"modules":["multi-dc-scale","governance-policy","advanced-data-protection"]},"features":["HSM","Performance Replication","DR Replication","MFA","Sentinel","Seal Wrapping","Control Groups","Performance Standby","Namespaces","KMIP","Entropy Augmentation","Transform Secrets Engine","Lease Count Quotas","Key Management Secrets Engine","Automated Snapshots"],"performance_standby_count":9999}

License is valid
```

Describe license at given path:

```shell-session
$ vault license inspect ~/vaults/license
Source: /Users/ncc/vaults/license
Product: vault
License ID: 060d7820-fa59-f95c-832b-395db0aeb9ba
Customer ID: 5401ae3b-136b-3e47-3b43-432927fa03e7
Installation ID: *
Issue Time: 2021-05-17 19:33:47.93981585 +0000 UTC
Start Time: 2021-05-17 00:00:00 +0000 UTC
Expiration Time: 2022-05-17 23:59:59.999 +0000 UTC
Termination Time: 2031-05-17 23:59:59.999 +0000 UTC
{"license_id":"060d7820-fa59-f95c-832b-395db0aeb9ba","customer_id":"5401ae3b-136b-3e47-3b43-432927fa03e7","installation_id":"*","issue_time":"2021-05-17T19:33:47.93981585Z","start_time":"2021-05-17T00:00:00Z","expiration_time":"2022-05-17T23:59:59.999Z","flags":{"modules":["multi-dc-scale","governance-policy","advanced-data-protection"]},"features":["HSM","Performance Replication","DR Replication","MFA","Sentinel","Seal Wrapping","Control Groups","Performance Standby","Namespaces","KMIP","Entropy Augmentation","Transform Secrets Engine","Lease Count Quotas","Key Management Secrets Engine","Automated Snapshots"],"performance_standby_count":9999}

License is valid
```

Usage

The following flags are available in addition to the [standard set of flags](/vault/docs/commands) included on all commands.
```

Command options

- `-installation-id` `(string: "")` - Installation ID to validate the license against
Enterprise licenses

In versions 1.2.6, 1.3.9, 1.4.5, and 1.5.2, the enterprise licenses were not incorporated correctly
into the build and we have issued patch releases (x.y.z.1) for enterprise customers containing the
proper license. As the previous builds were both not working and causing confusion, we have removed
the binaries.
// Copyright (c) HashiCorp, Inc.
// SPDX-License-Identifier: MPL-2.0

package license

// Features is a bitmask of feature flags
type Features uint

const FeatureNone Features = 0

func (f Features) HasFeature(flag Features) bool {
 return false
}
vault.core.license.expiration_time_epoch ((#vault-core-license-expiration_time_epoch))

Metric type	Value	Description
gauge	timestamp	Epoch time (seconds since 1970-01-01) at which the license will expire
---
layout: docs
page_title: license - Command
description: |-
 The "license" command groups subcommands for interacting with Vault licenses.
---

license

The `license` command groups subcommands for interacting with Vault licenses

For more information, please see the [license documentation](/vault/docs/enterprise/license)

Examples

Query current license in use by a node:

```shell-session
$ vault license get
Key Value
```

```
---                     -----
expiration_time         2022-05-17T23:59:59.999Z
features                [HSM Performance Replication DR Replication MFA Sentinel Seal Wrapping Control Groups Performance Standby Namespaces KMIP Entropy Augmentation Transform Secrets Engine Lease Count Quotas Key Management Secrets Engine Automated Snapshots]
license_id              060d7820-fa59-f95c-832b-395db0aeb9ba
performance_standby_count    9999
start_time              2021-05-17T00:00:00Z
```

Inspect a license string:

```shell-session
$
 vault license inspect ~/vaults/license
Source: /Users/ncc/vaults/license
Product: vault
License ID: 060d7820-fa59-f95c-832b-395db0aeb9ba
Customer ID: 5401ae3b-136b-3e47-3b43-432927fa03e7
Installation ID: *
Issue Time: 2021-05-17 19:33:47.93981585 +0000 UTC
Start Time: 2021-05-17 00:00:00 +0000 UTC
Expiration Time: 2022-05-17 23:59:59.999 +0000 UTC
{"license_id":"060d7820-fa59-f95c-832b-395db0aeb9ba","customer_id":"5401ae3b-136b-3e47-3b43-432927fa03e7","installation_id":"*","issue_time":"2021-05-17T19:33:47.93981585Z","start_time":"2021-05-17T00:00:00Z","expiration_time":"2022-05-17T23:59:59.999Z","flags":{"modules":["multi-dc-scale","governance-policy","advanced-data-protection"]},"features":["HSM","Performance Replication","DR Replication","MFA","Sentinel","Seal Wrapping","Control Groups","Performance Standby","Namespaces","KMIP","Entropy Augmentation","Transform Secrets Engine","Lease Count Quotas","Key Management Secrets Engine","Automated Snapshots"],"performance_standby_count":9999}

License
 is valid

```

Usage

```text
Usage: vault license <subcommand> [options] [args]

 # ...

Subcommands:
   get      Query Vault's license
   inspect  View the contents of a license string
```

For more information, examples, and usage about a subcommand, click on the name of the subcommand in the sidebar.

1.2504 datadog-sketches-go 1.4.2

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1.2505 npth 1.6-r4

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1.2506 jersey-container-servlet 2.39.1

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Source Code
The project maintains the following source code repositories:

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```
/*
* BIRD -- Direct Device Routes
*
* (c) 1998--2000 Martin Mares <mj@ucw.cz>
*
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*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/nest/rt-dev.c
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```
/*
* BIRD Internet Routing Daemon -- Network Interfaces
*
* (c) 1998--2000 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/nest/iface.h
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```
/*
* BIRD -- Multi-Threaded Routing Toolkit (MRT) Protocol
*
* (c) 2017--2018 Ondrej Zajicek <santiago@crfreenet.org>
* (c) 2017--2018 CZ.NIC z.s.p.o.
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/proto/mrt/mrt.h
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/proto/mrt/mrt.c
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/proto/mrt/config.Y
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```
/*
* BIRD Internet Routing Daemon -- Protocols
*
* (c) 1998--2000 Martin Mares <mj@ucw.cz>
*
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```

```
*/
```

Found in path(s):
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```
/*
*	BIRD -- OSPF
*
*	(c) 2000--2004 Ondrej Filip <feela@network.cz>
* (c) 2009--2014 Ondrej Zajicek <santiago@crfreenet.org>
* (c) 2009--2014 CZ.NIC z.s.p.o.
*
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*/
```

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* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/proto/ospf/rt.h
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```
/*
* BIRD Internet Routing Daemon -- Basic Declarations
*
* (c) 1998--2000 Martin Mares <mj@ucw.cz>
*
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*/
```

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```
/*
* BIRD -- Configuration Lexer
*
* (c) 1998--2000 Martin Mares <mj@ucw.cz>
*
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Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/conf/cf-lex.l
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```
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* BIRD -- OSPF
*
* (c) 1999--2005 Ondrej Filip <feela@network.cz>
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Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/proto/ospf/packet.c
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/proto/ospf/ospf.h
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/proto/ospf/iface.c
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/*
* BIRD -- Endianity Conversion
*
* (c) 1999 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/sysdep/unix/endian.h
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/*
* BIRD -- Border Gateway Protocol Configuration
*
* (c) 2000 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/proto/bgp/config.Y
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/*
* BIRD -- BSD Routing Table Syncing
*
* (c) 2004 Ondrej Filip <feela@network.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/sysdep/bsd/krt-sock.c
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* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/doc/kernel-doc
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```
/*
* BIRD -- Routing Information Protocol (RIP)
*
* (c) 1998--1999 Pavel Machek <pavel@ucw.cz>
* (c) 2004--2013 Ondrej Filip <feela@network.cz>
* (c) 2009--2015 Ondrej Zajicek <santiago@crfreenet.org>
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```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/proto/rip/rip.h
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/proto/rip/rip.c
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/proto/rip/packets.c
No license file was found, but licenses were detected in source scan.

```
/*
* BIRD Library -- malloc() With Checking
*
* (c) 1998--2000 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/lib/xmalloc.c
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```
/*
* BIRD -- Table-to-Table Routing Protocol a.k.a Pipe
*
* (c) 1999--2000 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/proto/pipe/pipe.c
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```
/*
* BIRD -- BSD Kernel Syncer Configuration
*
* (c) 1999--2000 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/

CF_HDR

CF_DECLS

CF_KEYWORDS(KERNEL, TABLE)

CF_GRAMMAR

CF_ADDTO(kern_proto, kern_proto kern_sys_item ';')

kern_sys_item:
  KERNEL TABLE expr {
 if ($3 && (krt_max_tables == 1))
   cf_error("Multiple kernel routing tables not supported");
 if ($3 < 0 || $3 >= krt_max_tables)
   cf_error("Kernel table id must be in range 0-%d", krt_max_tables - 1);

 THIS_KRT->sys.table_id = $3;
  }
;

CF_CODE

CF_END
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/sysdep/bsd/krt-sock.Y
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```
/*
* BIRD Library -- String Functions
*
* (c) 1998 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/lib/string.h

No license file was found, but licenses were detected in source scan.

```
/*
* Unaligned Data Accesses -- Generic Version, Network Order
*
* (c) 2000 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/lib/unaligned.h
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```
/*
* BIRD Library -- Event Processing
*
* (c) 1999 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/lib/event.h
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/lib/event.c
No license file was found, but licenses were detected in source scan.

```
/*
* BIRD -- Linux Kernel Netlink Route Syncer
*
* (c) 1998--2000 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/sysdep/linux/krt-sys.h
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```
/*
* BIRD Object Locks
*
* (c) 1999 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):

* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/nest/locks.h
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/nest/locks.c
No license file was found, but licenses were detected in source scan.

```
/*
* BIRD -- Babel Configuration
*
* Copyright (c) 2015-2016 Toke Hoiland-Jorgensen
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/proto/babel/config.Y
No license file was found, but licenses were detected in source scan.

```
/*
* BIRD -- I/O and event loop
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/proto/bfd/io.h
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/proto/bfd/io.c
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```
m4_divert(-1)m4_dnl
#
# BIRD -- Generator of Configuration Keyword List
#
# (c) 1998--2000 Martin Mares <mj@atrey.karlin.mff.cuni.cz>
#
# Can be freely distributed and used under the terms of the GNU GPL.
#

# Common aliases
m4_define(DNL, `m4_dnl')

# Diversions used:
# 1 keywords

# Simple iterator
m4_define(CF_itera, `m4_ifelse($#, 1, [[CF_iter($1)]], [[CF_iter($1)[[]]CF_itera(m4_shift($@))]])')
m4_define(CF_iterate, `m4_define([[CF_iter]], m4_defn([[$1]]))CF_itera($2)')

# We include all the headers
m4_define(CF_HDR, `m4_divert(0)')
```

```
m4_define(CF_DECLS, `m4_divert(-1)')
m4_define(CF_DEFINES, `m4_divert(-1)')

# Keywords are translated to C initializers
m4_define(CF_handle_kw, `m4_divert(1){ "m4_translit($1,[[A-Z]],[[a-z]])", $1, NULL },
m4_divert(-1)')
m4_define(CF_keywd, `m4_ifdef([[CF_tok_$1]],,[[m4_define([[CF_tok_$1]],1)CF_handle_kw($1)]])')
m4_define(CF_KEYWORDS, `m4_define([[CF_toks]],[[]])CF_iterate([[CF_keywd]],
 [[$@]])m4_ifelse(CF_toks,,,%token[[]]CF_toks
)DNL')

# CLI commands generate keywords as well
m4_define(CF_CLI, `CF_KEYWORDS(m4_translit($1, [[ ]], [[,]]))
')

# Enums are translated to C initializers: use CF_ENUM(typename, prefix, values)
m4_define(CF_enum, `m4_divert(1){ "CF_enum_prefix[[]]$1", -((CF_enum_type<<16) | CF_enum_prefix[[]]$1),
NULL },
m4_divert(-1)')
m4_define(CF_ENUM,
`m4_define([[CF_enum_type]],$1)m4_define([[CF_enum_prefix]],$2)CF_iterate([[CF_enum]],
[[m4_shift(m4_shift($@))]])DNL')

# After all configuration templates end, we generate the
m4_m4wrap(`
m4_divert(0)
static struct keyword keyword_list[] = {
m4_undivert(1){ NULL, -1, NULL } };
')

# As we are processing C source, we must access all M4 primitives via
# m4_* and also set different quoting convention: `[[' and ']]'
m4_changequote([[,]])
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/conf/gen_keywords.m4
No license file was found, but licenses were detected in source scan.

```
/*
* BIRD Library -- Logging Functions
*
* (c) 1998--2000 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/sysdep/unix/log.c

No license file was found, but licenses were detected in source scan.

```
/*
* BIRD Library -- SHA-256 and SHA-224 Hash Functions
*
* (c) 2015 CZ.NIC z.s.p.o.
*
* Based on the code from libgcrypt-1.6.0, which is
* (c) 2003, 2006, 2008, 2009 Free Software Foundation, Inc.
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/lib/sha256.h
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/lib/sha256.c
No license file was found, but licenses were detected in source scan.

```
/*
* BIRD -- RIP Configuration
*
* (c) 1998--1999 Pavel Machek <pavel@ucw.cz>
* (c) 2004--2013 Ondrej Filip <feela@network.cz>
* (c) 2009--2015 Ondrej Zajicek <santiago@crfreenet.org>
* (c) 2009--2015 CZ.NIC z.s.p.o.
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/proto/rip/config.Y
No license file was found, but licenses were detected in source scan.

```
/*
* BIRD -- Table-to-Table Protocol Configuration
*
* (c) 1999 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/proto/pipe/config.Y
No license file was found, but licenses were detected in source scan.

```
/*
* BIRD Internet Routing Daemon -- CLI Commands Which Don't Fit Anywhere Else
*
```

```
* (c) 2000 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/nest/cmds.h
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/nest/cmds.c
No license file was found, but licenses were detected in source scan.

```
m4_divert(-1)m4_dnl
#
# BIRD -- Generator of CLI Command List
#
# (c) 2000 Martin Mares <mj@atrey.karlin.mff.cuni.cz>
#
# Can be freely distributed and used under the terms of the GNU GPL.
#

m4_define(CF_CLI, `m4_divert(0){ "m4_translit($1,A-Z,a-z)", "$3", "$4", 1 },
m4_divert(-1)')

m4_define(CF_CLI_CMD, `m4_divert(0){ "m4_translit($1,A-Z,a-z)", "$2", "$3", 1 },
m4_divert(-1)')

m4_define(CF_CLI_HELP, `m4_divert(0){ "m4_translit($1,A-Z,a-z)", "$2", "$3", 0 },
m4_divert(-1)')

# As we are processing C source, we must access all M4 primitives via
# m4_* and also set different quoting convention: `[[' and ']]'
m4_changequote([[,]])
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/conf/gen_commands.m4
No license file was found, but licenses were detected in source scan.

```
/*
* BIRD -- UNIX Kernel Syncer Configuration
*
* (c) 1998--2000 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/sysdep/unix/krt.Y
No license file was found, but licenses were detected in source scan.

```
/*
* BIRD -- Protocols
*
* (c) 1998--2000 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/nest/proto.c
No license file was found, but licenses were detected in source scan.

```
/*
* BIRD -- Bidirectional Forwarding Detection (BFD)
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/nest/bfd.h
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/proto/bfd/packets.c
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/proto/bfd/bfd.c
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/proto/bfd/bfd.h
No license file was found, but licenses were detected in source scan.

```
/*
* BIRD -- The Border Gateway Protocol
*
* (c) 2000 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/proto/bgp/bgp.c
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/proto/bgp/bgp.h
No license file was found, but licenses were detected in source scan.

```
/*
* BIRD -- Route Attribute Cache
*
* (c) 1998--2000 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/nest/rt-attr.c

No license file was found, but licenses were detected in source scan.

```
/*
* BIRD -- RAdv Packet Processing
*
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/proto/radv/packets.c
No license file was found, but licenses were detected in source scan.

```
/*
* BIRD -- Routing Tables
*
* (c) 1998--2000 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/nest/rt-table.c
No license file was found, but licenses were detected in source scan.

```
/*
* BIRD -- Neighbor Cache
*
* (c) 1998--2000 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/nest/neighbor.c
No license file was found, but licenses were detected in source scan.

```
/*
* BIRD -- Password handling
*
* (c) 1999 Pavel Machek <pavel@ucw.cz>
* (c) 2004 Ondrej Filip <feela@network.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/nest/password.h

* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/nest/password.c
No license file was found, but licenses were detected in source scan.

```
/*
* BIRD -- Table-to-Table Routing Protocol a.k.a Pipe
*
* (c) 1999 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/proto/pipe/pipe.h
No license file was found, but licenses were detected in source scan.

```
/*
* BIRD -- Linux Netlink Configuration
*
* (c) 1999--2000 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/

CF_HDR

CF_DECLS

CF_KEYWORDS(KERNEL, TABLE, METRIC, KRT_PREFSRC, KRT_REALM, KRT_SCOPE, KRT_MTU,
KRT_WINDOW,
    KRT_RTT, KRT_RTTVAR, KRT_SSTRESH, KRT_CWND, KRT_ADVMSS, KRT_REORDERING,
    KRT_HOPLIMIT, KRT_INITCWND, KRT_RTO_MIN, KRT_INITRWND, KRT_QUICKACK,
    KRT_LOCK_MTU, KRT_LOCK_WINDOW, KRT_LOCK_RTT, KRT_LOCK_RTTVAR,
    KRT_LOCK_SSTRESH, KRT_LOCK_CWND, KRT_LOCK_ADVMSS, KRT_LOCK_REORDERING,
    KRT_LOCK_HOPLIMIT, KRT_LOCK_RTO_MIN, KRT_FEATURE_ECN, KRT_FEATURE_ALLFRAG)

CF_GRAMMAR

CF_ADDTO(kern_proto, kern_proto kern_sys_item ';')

kern_sys_item:
  KERNEL TABLE expr { THIS_KRT->sys.table_id = $3; }
| METRIC expr { THIS_KRT->sys.metric = $2; }
;

CF_ADDTO(dynamic_attr, KRT_PREFSRC { $$ = f_new_dynamic_attr(EAF_TYPE_IP_ADDRESS, T_IP,
EA_KRT_PREFSRC);
 })
CF_ADDTO(dynamic_attr, KRT_REALM { $$ = f_new_dynamic_attr(EAF_TYPE_INT, T_INT,
```

```
EA_KRT_REALM); })
CF_ADDTO(dynamic_attr, KRT_SCOPE { $$ = f_new_dynamic_attr(EAF_TYPE_INT, T_INT,
EA_KRT_SCOPE); })

CF_ADDTO(dynamic_attr, KRT_MTU  { $$ = f_new_dynamic_attr(EAF_TYPE_INT, T_INT, EA_KRT_MTU); })
CF_ADDTO(dynamic_attr, KRT_WINDOW { $$ = f_new_dynamic_attr(EAF_TYPE_INT, T_INT,
EA_KRT_WINDOW); })
CF_ADDTO(dynamic_attr, KRT_RTT  { $$ = f_new_dynamic_attr(EAF_TYPE_INT, T_INT, EA_KRT_RTT); })
CF_ADDTO(dynamic_attr, KRT_RTTVAR { $$ = f_new_dynamic_attr(EAF_TYPE_INT, T_INT,
EA_KRT_RTTVAR); })
CF_ADDTO(dynamic_attr, KRT_SSTRESH { $$ = f_new_dynamic_attr(EAF_TYPE_INT, T_INT,
EA_KRT_SSTRESH); })
CF_ADDTO(dynamic_attr, KRT_CWND  { $$ = f_new_dynamic_attr(EAF_TYPE_INT, T_INT,
EA_KRT_CWND); })
CF_ADDTO(dynamic_attr, KRT_ADVMSS { $$ = f_new_dynamic_attr(EAF_TYPE_INT, T_INT,
EA_KRT_ADVMSS); })
CF_ADDTO(dynamic_attr, KRT_REORDERING { $$ = f_new_dynamic_attr(EAF_TYPE_INT, T_INT,
EA_KRT_REORDERING);
 })
CF_ADDTO(dynamic_attr, KRT_HOPLIMIT { $$ = f_new_dynamic_attr(EAF_TYPE_INT, T_INT,
EA_KRT_HOPLIMIT); })
CF_ADDTO(dynamic_attr, KRT_INITCWND { $$ = f_new_dynamic_attr(EAF_TYPE_INT, T_INT,
EA_KRT_INITCWND); })
CF_ADDTO(dynamic_attr, KRT_RTO_MIN { $$ = f_new_dynamic_attr(EAF_TYPE_INT, T_INT,
EA_KRT_RTO_MIN); })
CF_ADDTO(dynamic_attr, KRT_INITRWND { $$ = f_new_dynamic_attr(EAF_TYPE_INT, T_INT,
EA_KRT_INITRWND); })
CF_ADDTO(dynamic_attr, KRT_QUICKACK { $$ = f_new_dynamic_attr(EAF_TYPE_INT, T_INT,
EA_KRT_QUICKACK); })

CF_ADDTO(dynamic_attr, KRT_LOCK_MTU { $$ = f_new_dynamic_attr(EAF_TYPE_BITFIELD, T_BOOL,
EA_KRT_LOCK_MTU); })
CF_ADDTO(dynamic_attr, KRT_LOCK_WINDOW { $$ = f_new_dynamic_attr(EAF_TYPE_BITFIELD,
T_BOOL, EA_KRT_LOCK_WINDOW); })
CF_ADDTO(dynamic_attr, KRT_LOCK_RTT { $$ = f_new_dynamic_attr(EAF_TYPE_BITFIELD, T_BOOL,
EA_KRT_LOCK_RTT); })
CF_ADDTO(dynamic_attr, KRT_LOCK_RTTVAR { $$ = f_new_dynamic_attr(EAF_TYPE_BITFIELD,
T_BOOL, EA_KRT_LOCK_RTTVAR); })
CF_ADDTO(dynamic_attr, KRT_LOCK_SSTRESH {
 $$ = f_new_dynamic_attr(EAF_TYPE_BITFIELD, T_BOOL, EA_KRT_LOCK_SSTHRESH); })
CF_ADDTO(dynamic_attr, KRT_LOCK_CWND { $$ = f_new_dynamic_attr(EAF_TYPE_BITFIELD, T_BOOL,
EA_KRT_LOCK_CWND); })
CF_ADDTO(dynamic_attr, KRT_LOCK_ADVMSS { $$ = f_new_dynamic_attr(EAF_TYPE_BITFIELD,
T_BOOL, EA_KRT_LOCK_ADVMSS); })
CF_ADDTO(dynamic_attr, KRT_LOCK_REORDERING { $$ = f_new_dynamic_attr(EAF_TYPE_BITFIELD,
T_BOOL, EA_KRT_LOCK_REORDERING); })
CF_ADDTO(dynamic_attr, KRT_LOCK_HOPLIMIT { $$ = f_new_dynamic_attr(EAF_TYPE_BITFIELD,
T_BOOL, EA_KRT_LOCK_HOPLIMIT); })
```

CF_ADDTO(dynamic_attr, KRT_LOCK_RTO_MIN { $$ = f_new_dynamic_attr(EAF_TYPE_BITFIELD, T_BOOL, EA_KRT_LOCK_RTO_MIN); })

CF_ADDTO(dynamic_attr, KRT_FEATURE_ECN { $$ = f_new_dynamic_attr(EAF_TYPE_BITFIELD, T_BOOL, EA_KRT_FEATURE_ECN); })
CF_ADDTO(dynamic_attr, KRT_FEATURE_ALLFRAG { $$ = f_new_dynamic_attr(EAF_TYPE_BITFIELD, T_BOOL, EA_KRT_FEATURE_ALLFRAG); })

CF_CODE

CF_END

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/sysdep/linux/netlink.Y
No license file was found, but licenses were detected in source scan.

BIRD Internet Routing Daemon

Home page http://bird.network.cz/
Mailing list bird-users@network.cz

(c) 1998--2008 Martin Mares <mj@ucw.cz>
(c) 1998--2000 Pavel Machek <pavel@ucw.cz>
(c) 1998--2008 Ondrej Filip <feela@network.cz>
(c) 2009--2019 CZ.NIC z.s.p.o.

==========

The BIRD project aims to develop a dynamic IP routing daemon with full support
of all modern routing protocols, easy to use configuration interface and
powerful route filtering language, primarily targeted on (but not limited to)
Linux and other UNIX-like systems and distributed under the GNU General
Public License.

What do we support
==========

o Both IPv4 and IPv6 (use --enable-ipv6 when configuring)
o Multiple routing tables
o Border Gateway Protocol (BGPv4)
o
Routing Information Protocol (RIPv2, RIPng)
o Open Shortest Path First protocol (OSPFv2, OSPFv3)
o Babel Routing Protocol (Babel)
o Bidirectional Forwarding Detection (BFD)
o IPv6 router advertisements
o Static routes

- o Inter-table protocol
- o Command-line interface allowing on-line control and inspection of status of the daemon
- o Soft reconfiguration, no need to use complex online commands to change the configuration, just edit the configuration file and notify BIRD to re-read it and it will smoothly switch itself to the new configuration, not disturbing routing protocols unless they are affected by the configuration changes
- o Powerful language for route filtering, see doc/bird.conf.example
- o Linux, FreeBSD, NetBSD and OpenBSD ports

How to install BIRD
==========

- o From standard distribution package of your OS (recommended)
- o From official binary packages for Debian and Red Hat Linux
  ftp://bird.network.cz/pub/bird/debian/

  ftp://bird.network.cz/pub/bird/redhat/
- o From source code of the latest stable release version
  ftp://bird.network.cz/pub/bird/
- o From current development code in Git repository
  https://gitlab.labs.nic.cz/labs/bird/

See the file INSTALL for information about installation from source code.

Documentation
==========

Online documentation is available at http://bird.network.cz/?get_doc or as HTML files in the doc directory, you can install it by `make install-docs' and rebuild it by `make docs', but you'll need SGMLtools and LaTeX to be installed on your machine. You can also download a neatly formatted PDF version as a separate archive (bird-doc-*.tar.gz) from ftp://bird.network.cz/pub/bird/

User support
==========

If you want to help us debugging, enhancing and porting BIRD or just lurk around to see what's going to develop, feel free to subscribe to the BIRD users mailing list bird-users@network.cz, just send `subscribe' to bird-request@network.cz. Bug reports,
suggestions, feature requests and
code are welcome! We don't use gitlab issues for reporting, sorry.

Subscribe: http://bird.network.cz/mailman/listinfo/bird-users/
Archive: http://bird.network.cz/pipermail/bird-users/

Licence
=======

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You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

History
=======

BIRD development started as a student project at the Faculty of Math
and
Physics, Charles University, Prague, Czech Republic under supervision
of RNDr. Libor Forst <forst@cuni.cz>. BIRD has been developed and supported
by CZ.NIC z.s.p.o. http://www.nic.cz/ since 2009.

Good Luck and enjoy the BIRD :)
The BIRD Team

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/README
No license file was found, but licenses were detected in source scan.

```
/*
* BIRD Socket Interface
*
* (c) 1998--2004 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/lib/socket.h
No license file was found, but licenses were detected in source scan.

```
/*
* BIRD Internet Routing Daemon -- The Internet Protocol
```

*
* (c) 1998 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/lib/ip.h
No license file was found, but licenses were detected in source scan.

/*
* BIRD Resource Manager
*
* (c) 1998--1999 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/lib/resource.h
No license file was found, but licenses were detected in source scan.

/*
* BIRD -- UNIX Kernel Synchronization
*
* (c) 1998--2000 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/sysdep/unix/krt.c
No license file was found, but licenses were detected in source scan.

/*
* Configuration for *BSD based systems (tested on FreeBSD and NetBSD)
*
* (c) 2004 Ondrej Filip <feela@network.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/sysdep/cf/bsd.h
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/sysdep/cf/bsd-v6.h
No license file was found, but licenses were detected in source scan.

/*

```
* BIRD Client
*
* (c) 1999--2000 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/client/client.h
No license file was found, but licenses were detected in source scan.

```
/*
* Filters: utility functions
*
* Copyright 1998 Pavel Machek <pavel@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/filter/tree.c
No license file was found, but licenses were detected in source scan.

```
/*
* BIRD Library -- IP address functions
*
* (c) 1998--2000 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/lib/ip.c
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/doc/bird.sgml
No license file was found, but licenses were detected in source scan.

```
/*
* BIRD -- OSPF
*
* (c) 1999--2004 Ondrej Filip <feela@network.cz>
* (c) 2009--2014 Ondrej Zajicek <santiago@crfreenet.org>
* (c) 2009--2014 CZ.NIC z.s.p.o.
*
```

* Can be freely distributed and used under the terms of the GNU GPL.
*/

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/proto/ospf/hello.c
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/proto/ospf/topology.h
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/proto/ospf/neighbor.c
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/proto/ospf/dbdes.c
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/proto/ospf/ospf.c
No license file was found, but licenses were detected in source scan.

/*
* BIRD -- *BSD Kernel Route Syncer
*
* (c) 2004 Ondrej Filip <feela@network.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/sysdep/bsd/krt-sys.h
No license file was found, but licenses were detected in source scan.

/*
* BIRD -- The Babel protocol
*
* Copyright (c) 2015--2016 Toke Hoiland-Jorgensen
*
* Can be freely distributed and used under the terms of the GNU GPL.
*
* This file contains the main routines for handling and sending TLVs, as
* well as timers and interaction with the nest.
*/

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/proto/babel/babel.c
No license file was found, but licenses were detected in source scan.

/*
* BIRD Internet Routing Daemon -- Attribute Operations
*
* (c) 2000 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/nest/attrs.h

No license file was found, but licenses were detected in source scan.

```
/*
* BIRD Internet Routing Daemon -- BSD Multicasting and Network Includes
*
* (c) 2004       Ondrej Filip <feela@network.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/sysdep/bsd/sysio.h
No license file was found, but licenses were detected in source scan.

```
/*
* BIRD -- OSPF
*
* (c) 1999--2004 Ondrej Filip <feela@network.cz>
* (c) 2009--2015 Ondrej Zajicek <santiago@crfreenet.org>
* (c) 2009--2015 CZ.NIC z.s.p.o.
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/proto/ospf/lsalib.c
No license file was found, but licenses were detected in source scan.

```
/*
* BIRD Resource Manager -- A SLAB-like Memory Allocator
*
* Heavily inspired by the original SLAB paper by Jeff Bonwick.
*
* (c) 1998--2000 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/lib/slab.c
No license file was found, but licenses were detected in source scan.

```
/*
* Configuration for Linux based systems running IPv6
*
* (c) 1998--1999 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/sysdep/cf/linux-v6.h
No license file was found, but licenses were detected in source scan.

```
/*
* BIRD Internet Routing Daemon -- Unix Entry Point
*
* (c) 1998--2000 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/sysdep/unix/main.c
No license file was found, but licenses were detected in source scan.

```
/*
*	BIRD -- OSPF
*
*	(c) 1999--2000 Ondrej Filip <feela@network.cz>
* (c) 2009--2014 Ondrej Zajicek <santiago@crfreenet.org>
* (c) 2009--2014 CZ.NIC z.s.p.o.
*
*	Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/proto/ospf/lsalib.h
No license file was found, but licenses were detected in source scan.

```
/*
* BIRD Client - Light variant I/O
*
* (c) 1999--2004 Martin Mares <mj@ucw.cz>
*	(c) 2013 Tomas Hlavacek <tomas.hlavacek@nic.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/client/birdcl.c
No license file was found, but licenses were detected in source scan.

```
/*
* BIRD -- Route Origin Authorization
*
```

*
* Can be freely distributed and used under the terms of the GNU GPL.
*/

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/nest/rt-roa.c
No license file was found, but licenses were detected in source scan.

/*
* BIRD -- Router Advertisement Configuration
*
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/proto/bfd/config.Y
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/proto/radv/config.Y
No license file was found, but licenses were detected in source scan.

%Color profile: _DEFAULT.CCM - Generic CMYK
%%BeginResource: procset wCorel6Dict 6.0 0
% Copyright (c)1992-96 Corel Corporation
% All rights reserved. v6.0 r1.1

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/doc/slides/obr2.eps
No license file was found, but licenses were detected in source scan.

/*
* BIRD -- OSPF Topological Database
*
* (c) 1999 Martin Mares <mj@ucw.cz>
* (c) 1999--2004 Ondrej Filip <feela@network.cz>
* (c) 2009--2014 Ondrej Zajicek <santiago@crfreenet.org>
* (c) 2009--2014 CZ.NIC z.s.p.o.
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/proto/ospf/topology.c
No license file was found, but licenses were detected in source scan.

/*
* BIRD -- Set/Community-list Operations
*
* (c) 2000 Martin Mares <mj@ucw.cz>

* (c) 2000 Pavel Machek <pavel@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/nest/a-set.c
No license file was found, but licenses were detected in source scan.

/*
* BIRD -- Direct Device Routes
*
* (c) 1998--1999 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/nest/rt-dev.h
No license file was found, but licenses were detected in source scan.

/*
* BIRD -- UNIX Kernel Route Syncer
*
* (c) 1998--2000 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/sysdep/unix/krt.h
No license file was found, but licenses were detected in source scan.

/*
* BIRD Library
*
* (c) 1998--2004 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/lib/birdlib.h
No license file was found, but licenses were detected in source scan.

m4_divert(-1)m4_dnl
#
BIRD -- Generator of Configuration Grammar

```
#
# (c) 1998--1999 Martin Mares <mj@atrey.karlin.mff.cuni.cz>
#
# Can be freely distributed and used under the terms of the GNU GPL.
#

# Diversions used:
# 1 includes
# 2 types etc.
# 3 rules
# 4 C code

# Common aliases
m4_define(DNL, `m4_dnl')

# Define macros for defining sections
m4_define(CF_ZONE, `m4_divert($1)/* $2 from m4___file__ */')
m4_define(CF_HDR, `CF_ZONE(1, Headers)')
m4_define(CF_DEFINES, `CF_ZONE(1, Defines)')
m4_define(CF_DECLS, `CF_ZONE(2, Declarations)')
m4_define(CF_GRAMMAR, `CF_ZONE(3, Grammar)')
m4_define(CF_CODE, `CF_ZONE(4, C Code)')
m4_define(CF_END, `m4_divert(-1)')

# Simple iterator
m4_define(CF_itera, `m4_ifelse($#, 1, [[CF_iter($1)]], [[CF_iter($1)[[]]CF_itera(m4_shift($@))]])')
m4_define(CF_iterate, `m4_define([[CF_iter]], m4_defn([[$1]]))CF_itera($2)')

# Keywords act as untyped %token
m4_define(CF_keywd, `m4_ifdef([[CF_tok_$1]],,[[m4_define([[CF_tok_$1]],1)m4_define([[CF_toks]],CF_toks
 $1)]])')
m4_define(CF_KEYWORDS, `m4_define([[CF_toks]],[[]])CF_iterate([[CF_keywd]],
[[$@]])m4_ifelse(CF_toks,,,%token[[]]CF_toks
)DNL')

# Dynamic syntax rules
m4_define(CF_dyn_rules,)
m4_define(CF_ADDTO, `m4_define([[CF_rule_$1]],m4_ifdef([[CF_rule_$1]],CF_rule_$1 |
,[[m4_define([[CF_dyn_rules]],CF_dyn_rules[[CF_RULE($1)
]])]])$2)DNL')

# CLI commands
m4_define(CF_CLI, `m4_define([[CF_cmd]], cmd_[[]]m4_translit($1, [[ ]], _))DNL
m4_divert(2)CF_KEYWORDS(m4_translit($1, [[ ]], [[,]]))
m4_divert(3)CF_ADDTO(cli_cmd, CF_cmd)
CF_cmd: $1 $2 END')
m4_define(CF_CLI_CMD, `')
m4_define(CF_CLI_HELP, `')
```

```
# ENUM declarations are ignored
m4_define(CF_ENUM, `')

# After all configuration templates end, we finally generate the grammar file.
m4_m4wrap(`
m4_divert(0)DNL
%{
m4_undivert(1)DNL
%}

m4_undivert(2)DNL

%%
m4_undivert(3)DNL

/* Dynamic rules */

m4_define(CF_RULE, [[$1: CF_rule_$1 ;]])
CF_dyn_rules
%%
m4_undivert(4)DNL
')

#
 As we are processing C source, we must access all M4 primitives via
# m4_* and also set different quoting convention: `[[' and ']]'
m4_changequote([[,]])
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/conf/gen_parser.m4
No license file was found, but licenses were detected in source scan.

```
/*
* BIRD Library -- Alloca.h
*
* (c) 2004 Ondrej Filip <feela@network.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/lib/alloca.h
No license file was found, but licenses were detected in source scan.

```
%Color profile: Disabled
%%BeginResource: procset wCorel6Dict 6.0 0
% Copyright (c)1992-96 Corel Corporation
```

% All rights reserved. v6.0 r1.1

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/doc/slides/obr1.eps
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/doc/slides/obr5.eps
No license file was found, but licenses were detected in source scan.

```
/*
* BIRD -- Router Advertisement
*
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/proto/radv/radv.h
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/proto/radv/radv.c
No license file was found, but licenses were detected in source scan.

```
/*
* BIRD -- BGP Packet Processing
*
* (c) 2000 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/proto/bgp/packets.c
No license file was found, but licenses were detected in source scan.

```
/*
* BIRD -- Forwarding Information Base -- Data Structures
*
* (c) 1998--2000 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/nest/rt-fib.c
No license file was found, but licenses were detected in source scan.

```
/*
* BIRD -- OSPF
*
* (c) 2000--2004 Ondrej Filip <feela@network.cz>
* (c) 2009--2014 Ondrej Zajicek <santiago@crfreenet.org>
```

* (c) 2009--2014 CZ.NIC z.s.p.o.
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/proto/ospf/lsack.c
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/proto/ospf/lsupd.c
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/proto/ospf/lsreq.c
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/proto/ospf/rt.c
No license file was found, but licenses were detected in source scan.

/*
* UCW Library -- Universal Heap Macros
*
* (c) 2001 Martin Mares <mj@ucw.cz>
* (c) 2005 Tomas Valla <tom@ucw.cz>
*
* This software may be freely distributed and used according to the terms
* of the GNU Lesser General Public License.
*/

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/lib/heap.h
No license file was found, but licenses were detected in source scan.

/*
* Filters: utility functions
*
* Copyright 1998 Pavel Machek <pavel@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*
*/

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/filter/filter.c
No license file was found, but licenses were detected in source scan.

/*
* BIRD Internet Routing Daemon -- Command-Line Interface
*
* (c) 1999--2000 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/

Found in path(s):

* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/nest/cli.c
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/nest/cli.h
No license file was found, but licenses were detected in source scan.

```
#
# BIRD -- Internal Commands Of The Client
#
# (c) 2000 Martin Mares <mj@atrey.karlin.mff.cuni.cz>
#
# Can be freely distributed and used under the terms of the GNU GPL.
#

CF_CLI(QUIT,,, [[Quit the client]])
CF_CLI(EXIT,,, [[Exit the client]])
CF_CLI(HELP,,, [[Description of the help system]])
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/client/cmds.m4
No license file was found, but licenses were detected in source scan.

```
/*
* BIRD Internet Routing Daemon -- Configuration File Handling
*
* (c) 1998--2000 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/conf/conf.h
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/conf/conf.c
No license file was found, but licenses were detected in source scan.

```
/*
* BIRD -- Linux Netlink Interface
*
* (c) 1999--2000 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/sysdep/linux/netlink.c
No license file was found, but licenses were detected in source scan.

```
/*
* BIRD Library -- Generic Bit Operations
*
```

* (c) 1998 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/lib/bitops.c
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/lib/bitops.h
No license file was found, but licenses were detected in source scan.

/*
* BIRD -- OSPF Configuration
*
* (c) 1999--2004 Ondrej Filip <feela@network.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/proto/ospf/config.Y
No license file was found, but licenses were detected in source scan.

/*
* BIRD Library -- Message Authentication Codes
*
* (c) 2016 Ondrej Zajicek <santiago@crfreenet.org>
* (c) 2016 CZ.NIC z.s.p.o.
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/lib/mac.c
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/lib/mac.h
No license file was found, but licenses were detected in source scan.

/*
* BIRD -- Static Protocol Configuration
*
* (c) 1998--1999 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/proto/static/config.Y
No license file was found, but licenses were detected in source scan.

```
/*
* BIRD -- Management of Interfaces and Neighbor Cache
*
* (c) 1998--2000 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/nest/iface.c
No license file was found, but licenses were detected in source scan.

```
/*
* BIRD Library -- Generic Buffer Structure
*
* (c) 2013 Ondrej Zajicek <santiago@crfreenet.org>
* (c) 2013 CZ.NIC z.s.p.o.
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/lib/buffer.h
No license file was found, but licenses were detected in source scan.

```
/*
* BIRD -- Static Route Generator
*
* (c) 1998--2000 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/proto/static/static.c
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/proto/static/static.h
No license file was found, but licenses were detected in source scan.

```
/*
* Filters: utility functions
*
* Copyright 1998 Pavel Machek <pavel@ucw.cz>
*    2017 Jan Maria Matejka <mq@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):

* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/filter/f-util.c
No license file was found, but licenses were detected in source scan.

```
/*
* BIRD -- Path Operations
*
* (c) 2000 Martin Mares <mj@ucw.cz>
* (c) 2000 Pavel Machek <pavel@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/nest/a-path.c
No license file was found, but licenses were detected in source scan.

```
/*
* BIRD Client -- Command Handling
*
* (c) 1999--2000 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/client/commands.c
No license file was found, but licenses were detected in source scan.

```
/*
* BIRD Library -- SHA-1 Hash Function (FIPS 180-1, RFC 3174)
*
* (c) 2015 CZ.NIC z.s.p.o.
*
* Based on the code from libucw-6.4
* (c) 2008--2009 Martin Mares <mj@ucw.cz>
*
* Based on the code from libgcrypt-1.2.3, which is
* (c) 1998, 2001, 2002, 2003 Free Software Foundation, Inc.
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/lib/sha1.c
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/lib/sha1.h
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* BIRD - filters
*
* Copyright 1998--2000 Pavel Machek
*
* Can be freely distributed and used under the terms of the GNU GPL.
*
 FIXME: priority of ! should be lower
*/

CF_HDR

CF_DEFINES

static inline u32 pair(u32 a, u32 b) { return (a << 16) | b; }
static inline u32 pair_a(u32 p) { return p >> 16; }
static inline u32 pair_b(u32 p) { return p & 0xFFFF; }


/*
* Sets and their items are during parsing handled as lists, linked
* through left ptr. The first item in a list also contains a pointer
* to the last item in a list (right ptr). For convenience, even items
* are handled as one-item lists. Lists are merged by f_merge_items().
*/
static int
f_valid_set_type(int type)
{
 switch (type)
 {
 case T_INT:
 case T_PAIR:
 case T_QUAD:
 case T_ENUM:
 case T_IP:
 case T_EC:
 case T_LC:
   return 1;

 default:
   return 0;
 }
}

static inline struct f_tree *
f_new_item(struct f_val from, struct
 f_val to)
{
 struct f_tree *t = f_new_tree();
```

```
 t->right = t;
 t->from = from;
 t->to = to;
 return t;
}

static inline struct f_tree *
f_merge_items(struct f_tree *a, struct f_tree *b)
{
 if (!a) return b;
 a->right->left = b;
 a->right = b->right;
 b->right = NULL;
 return a;
}

static inline struct f_tree *
f_new_pair_item(int fa, int ta, int fb, int tb)
{
 check_u16(fa);
 check_u16(ta);
 check_u16(fb);
 check_u16(tb);

 if ((ta < fa) || (tb < fb))
   cf_error( "From value cannot be higher that To value in pair sets");

 struct f_tree *t = f_new_tree();
 t->right = t;
 t->from.type = t->to.type = T_PAIR;
 t->from.val.i = pair(fa, fb);
 t->to.val.i = pair(ta, tb);
 return t;
}

static inline struct f_tree *
f_new_pair_set(int fa, int ta, int fb, int tb)
{
 check_u16(fa);
 check_u16(ta);
 check_u16(fb);
 check_u16(tb);

 if ((ta < fa) || (tb < fb))
   cf_error( "From value cannot be higher that To value in pair sets");

 struct f_tree *lst = NULL;
 int i;
```

```
  for (i = fa; i <= ta; i++)
    lst = f_merge_items(lst, f_new_pair_item(i, i, fb, tb));

 return lst;
}

#define CC_ALL 0xFFFF
#define EC_ALL 0xFFFFFFFF
#define LC_ALL 0xFFFFFFFF

static struct f_tree *
f_new_ec_item(u32 kind, u32 ipv4_used, u32 key, u32 vf, u32 vt)
{
 u64 fm, to;

 if ((kind != EC_GENERIC) && (ipv4_used || (key >= 0x10000))) {
   check_u16(vf);
   if (vt == EC_ALL)
     vt = 0xFFFF;
   else
     check_u16(vt);
 }

 if (kind == EC_GENERIC) {
   fm = ec_generic(key, vf);
   to = ec_generic(key, vt);
 }
 else if (ipv4_used) {
   fm = ec_ip4(kind, key, vf);
   to = ec_ip4(kind, key, vt);
 }
 else if (key < 0x10000) {
   fm = ec_as2(kind, key, vf);
   to = ec_as2(kind, key, vt);
 }
 else {
   fm = ec_as4(kind, key, vf);
   to = ec_as4(kind, key, vt);
 }

 struct f_tree *t = f_new_tree();
 t->right = t;
 t->from.type = t->to.type = T_EC;
 t->from.val.ec = fm;
 t->to.val.ec = to;
 return t;
}
```

```
static struct f_tree *
f_new_lc_item(u32 f1, u32
 t1, u32 f2, u32 t2, u32 f3, u32 t3)
{
 struct f_tree *t = f_new_tree();
 t->right = t;
 t->from.type = t->to.type = T_LC;
 t->from.val.lc = (lcomm) {f1, f2, f3};
 t->to.val.lc = (lcomm) {t1, t2, t3};
 return t;
}

static inline struct f_inst *
f_generate_empty(struct f_dynamic_attr dyn)
{
 struct f_inst *e = f_new_inst(FI_EMPTY);

 switch (dyn.type & EAF_TYPE_MASK) {
   case EAF_TYPE_AS_PATH:
     e->aux = T_PATH;
     break;
   case EAF_TYPE_INT_SET:
     e->aux = T_CLIST;
     break;
   case EAF_TYPE_EC_SET:
     e->aux = T_ECLIST;
     break;
   case EAF_TYPE_LC_SET:
     e->aux = T_LCLIST;
     break;
   default:
     cf_error("Can't empty that attribute");
 }

 struct f_inst *s = f_new_inst_da(FI_EA_SET, dyn);
 s->a1.p = e;
 return s;
}


static inline struct f_inst *
f_generate_dpair(struct f_inst *t1, struct f_inst *t2)
{
 struct f_inst *rv;

 if ((t1->fi_code == FI_CONSTANT) && (t2->fi_code == FI_CONSTANT)) {
   if ((t1->aux != T_INT) || (t2->aux
```

```
 != T_INT))
     cf_error( "Can't operate with value of non-integer type in pair constructor");

   check_u16(t1->a2.i);
   check_u16(t2->a2.i);

   rv = f_new_inst(FI_CONSTANT);
   rv->aux = T_PAIR;
   rv->a2.i = pair(t1->a2.i, t2->a2.i);
 }
 else {
   rv = f_new_inst(FI_PAIR_CONSTRUCT);
   rv->a1.p = t1;
   rv->a2.p = t2;
 }

 return rv;
}

static inline struct f_inst *
f_generate_ec(u16 kind, struct f_inst *tk, struct f_inst *tv)
{
 struct f_inst *rv;
 int c1 = 0, c2 = 0, ipv4_used = 0;
 u32 key = 0, val2 = 0;

 if (tk->fi_code == FI_CONSTANT) {
   c1 = 1;

   if (tk->aux == T_INT) {
     ipv4_used = 0; key = tk->a2.i;
   }
   else if (tk->aux == T_QUAD) {
     ipv4_used = 1; key = tk->a2.i;
   }
   else
     cf_error("Can't operate with key of non-integer/IPv4 type in EC constructor");
 }

#ifndef IPV6
 /* IP->Quad implicit conversion */
 else if (tk->fi_code == FI_CONSTANT_INDIRECT) {
   c1 = 1;
   struct f_val *val = tk->a1.p;

   if (val->type == T_INT)
   {
     ipv4_used = 0; key = val->val.i;
```

```
  }
  else if (val->type == T_QUAD) {
    ipv4_used = 1; key = val->val.i;
  }
  else if (val->type == T_IP) {
    ipv4_used = 1; key = ipa_to_u32(val->val.px.ip);
  }
  else
    cf_error("Can't operate with key of non-integer/IPv4 type in EC constructor");
 }
#endif

 if (tv->fi_code == FI_CONSTANT) {
  if (tv->aux != T_INT)
    cf_error("Can't operate with value of non-integer type in EC constructor");
  c2 = 1;
  val2 = tv->a2.i;
 }

 if (c1 && c2) {
  u64 ec;

  if (kind == EC_GENERIC) {
    ec = ec_generic(key, val2);
  }
  else if (ipv4_used) {
    check_u16(val2);
    ec = ec_ip4(kind, key, val2);
  }
  else if (key < 0x10000) {
    ec = ec_as2(kind, key, val2);
  }
  else {
    check_u16(val2);
    ec = ec_as4(kind, key, val2);
  }

  NEW_F_VAL;
  rv = f_new_inst(FI_CONSTANT_INDIRECT);
  rv->a1.p = val;
  val->type = T_EC;
  val->val.ec = ec;
 }
 else {
  rv
 = f_new_inst(FI_EC_CONSTRUCT);
  rv->aux = kind;
  rv->a1.p = tk;
```

```
  rv->a2.p = tv;
 }

 return rv;
}

static inline struct f_inst *
f_generate_lc(struct f_inst *t1, struct f_inst *t2, struct f_inst *t3)
{
 struct f_inst *rv;

 if ((t1->fi_code == FI_CONSTANT) && (t2->fi_code == FI_CONSTANT) && (t3->fi_code ==
FI_CONSTANT)) {
  if ((t1->aux != T_INT) || (t2->aux != T_INT) || (t3->aux != T_INT))
    cf_error( "LC - Can't operate with value of non-integer type in tuple constructor");

  rv = f_new_inst(FI_CONSTANT_INDIRECT);

  NEW_F_VAL;
  rv->a1.p = val;
  val->type = T_LC;
  val->val.lc = (lcomm) { t1->a2.i, t2->a2.i, t3->a2.i };
 }
 else
 {
  rv = cfg_allocz(sizeof(struct f_inst3));
  rv->lineno = ifs->lino;
  rv->fi_code = FI_LC_CONSTRUCT;
  rv->a1.p = t1;
  rv->a2.p = t2;
  INST3(rv).p = t3;
 }

 return rv;
}

static inline struct f_inst *
f_generate_path_mask(struct f_path_mask *t)
{
 struct f_path_mask *tt;
 for (tt = t; tt; tt = tt->next)
 {
  if (tt->kind == PM_ASN_EXPR) {
    struct f_inst *mrv = f_new_inst(FI_PATHMASK_CONSTRUCT);
    mrv->a1.p = t;
    return mrv;
  }
 }
```

```
 NEW_F_VAL;
 val->type = T_PATH_MASK;
 val->val.path_mask = t;

 struct f_inst *rv = f_new_inst(FI_CONSTANT_INDIRECT);
 rv->a1.p = val;

 return rv;
}


CF_DECLS

CF_KEYWORDS(FUNCTION, PRINT, PRINTN, UNSET, RETURN,
 ACCEPT, REJECT, ERROR, QUITBIRD,
 INT, BOOL, IP, PREFIX, PAIR, QUAD, EC, LC,
 SET, STRING, BGPMASK, BGPPATH, CLIST, ECLIST, LCLIST,
 IF, THEN, ELSE, CASE,
 TRUE, FALSE, RT, RO, UNKNOWN, GENERIC,
 FROM, GW, NET, MASK, PROTO, SOURCE, SCOPE, CAST, DEST, IFNAME, IFINDEX,
 PREFERENCE,
 LEN,
 DEFINED,
 ADD, DELETE, CONTAINS, RESET,
 PREPEND, FIRST, LAST, LAST_NONAGGREGATED, MATCH,
 ROA_CHECK,
 EMPTY,
 FILTER, WHERE, EVAL)

%nonassoc THEN
%nonassoc ELSE

%type <x> term block cmds cmds_int cmd function_body constant constructor print_one print_list var_list var_listn
function_call symbol bgp_path_expr
%type <fda> dynamic_attr
%type
 <fsa> static_attr
%type <f> filter filter_body where_filter
%type <i> type break_command ec_kind
%type <i32> cnum
%type <e> pair_item ec_item lc_item set_item switch_item set_items switch_items switch_body
%type <trie> fprefix_set
%type <v> set_atom switch_atom fprefix fprefix_s fipa
%type <s> decls declsn one_decl function_params
%type <h> bgp_path bgp_path_tail1 bgp_path_tail2

CF_GRAMMAR
```

```
CF_ADDTO(conf, filter_def)
filter_def:
  FILTER SYM { $2 = cf_define_symbol($2, SYM_FILTER, NULL); cf_push_scope( $2 ); }
    filter_body {
    $2->def = $4;
    $4->name = $2->name;
    DBG( "We have new filter defined (%s)\n", $2->name );
    cf_pop_scope();
  }
;

CF_ADDTO(conf, filter_eval)
filter_eval:
  EVAL term { f_eval_int($2); }
;

type:
  INT { $$ = T_INT; }
| BOOL { $$ = T_BOOL; }
| IP { $$ = T_IP; }
| PREFIX { $$ = T_PREFIX; }
| PAIR { $$ = T_PAIR; }
| QUAD { $$ = T_QUAD; }
| EC { $$ = T_EC; }
| LC { $$ = T_LC; }
| STRING { $$ = T_STRING; }
| BGPMASK { $$ = T_PATH_MASK;
 }
| BGPPATH { $$ = T_PATH; }
| CLIST { $$ = T_CLIST; }
| ECLIST { $$ = T_ECLIST; }
| LCLIST { $$ = T_LCLIST; }
| type SET {
 switch ($1) {
   case T_INT:
   case T_PAIR:
   case T_QUAD:
   case T_EC:
   case T_LC:
   case T_IP:
        $$ = T_SET;
        break;

   case T_PREFIX:
        $$ = T_PREFIX_SET;
     break;
```

```
   default:
  cf_error( "You can't create sets of this type." );
 }
  }
;

one_decl:
  type SYM {
    struct f_val * val = cfg_alloc(sizeof(struct f_val));
    val->type = T_VOID;
    $2 = cf_define_symbol($2, SYM_VARIABLE | $1, val);
    DBG( "New variable %s type %x\n", $2->name, $1 );
    $2->aux2 = NULL;
    $$=$2;
  }
;

/* Decls with ';' at the end */
decls: /* EMPTY */ { $$ = NULL; }
| one_decl ';' decls {
    $$ = $1;
    $$->aux2 = $3;
  }
;

/* Declarations that have no ';' at the end. */
declsn: one_decl { $$ = $1; }
| one_decl ';' declsn {
    $$ = $1;
    $$->aux2 = $3;
  }
;

filter_body:
  function_body {
    struct filter
 *f = cfg_alloc(sizeof(struct filter));
    f->name = NULL;
    f->root = $1;
    $$ = f;
  }
;

filter:
  SYM {
    if ($1->class != SYM_FILTER) cf_error("No such filter.");
    $$ = $1->def;
  }
```

```
| filter_body
;

where_filter:
  WHERE term {
    /* Construct 'IF term THEN ACCEPT; REJECT;' */
    struct filter *f = cfg_alloc(sizeof(struct filter));
    struct f_inst *i, *acc, *rej;
    acc = f_new_inst(FI_PRINT_AND_DIE); /* ACCEPT */
    acc->a1.p = NULL;
    acc->a2.i = F_ACCEPT;
    rej = f_new_inst(FI_PRINT_AND_DIE); /* REJECT */
    rej->a1.p = NULL;
    rej->a2.i = F_REJECT;
    i = f_new_inst(FI_CONDITION);   /* IF */
    i->a1.p = $2;
    i->a2.p = acc;
    i->next = rej;
    f->name = NULL;
    f->root = i;
    $$ = f;
  }
;

function_params:
  '(' declsn ')' { DBG( "Have function parameters\n" ); $$=$2; }
| '(' ')' { $$=NULL; }
;

function_body:
  decls '{' cmds '}' {
    if ($1) {
      /* Prepend instruction to clear local variables */
       $$ = f_new_inst(FI_CLEAR_LOCAL_VARS);
      $$->a1.p = $1;
      $$->next = $3;
    } else
      $$ = $3;
  }
;

CF_ADDTO(conf, function_def)
function_def:
  FUNCTION SYM { DBG( "Beginning of function %s\n", $2->name );
    $2 = cf_define_symbol($2, SYM_FUNCTION, NULL);
    cf_push_scope($2);
  } function_params function_body {
    $2->def = $5;
```

```
    $2->aux2 = $4;
    DBG("Hmm, we've got one function here - %s\n", $2->name);
    cf_pop_scope();
  }
;

/* Programs */

/* Hack: $$ of cmds_int is the last node.
  $$->next of cmds_int is temporary used for the first node */

cmds: /* EMPTY */ { $$ = NULL; }
| cmds_int { $$ = $1->next; $1->next = NULL; }
;

cmds_int: cmd { $$ = $1; $1->next = $1; }
| cmds_int cmd { $$ = $2; $2->next = $1->next ; $1->next = $2; }
;

block:
  cmd {
    $$=$1;
  }
| '{' cmds '}' {
    $$=$2;
  }
;

/*
* Complex types, their bison value is struct f_val
*/
fipa:
  IPA %prec PREFIX_DUMMY { $$.type = T_IP; $$.val.px.ip = $1;
 }
;



/*
* Set constants. They are also used in switch cases. We use separate
* nonterminals for switch (set_atom/switch_atom, set_item/switch_item ...)
* to elude a collision between symbol (in expr) in set_atom and symbol
* as a function call in switch case cmds.
*/

set_atom:
  NUM   { $$.type = T_INT; $$.val.i = $1; }
| RTRID { $$.type = T_QUAD; $$.val.i = $1; }
```

```
| fipa  { $$ = $1; }
| ENUM  { $$.type = pair_a($1); $$.val.i = pair_b($1); }
| '(' term ')' {
    $$ = f_eval($2, cfg_mem);
    if (!f_valid_set_type($$.type)) cf_error("Set-incompatible type");
  }
| SYM {
    if (!cf_symbol_is_constant($1)) cf_error("%s: constant expected", $1->name);
    if (!f_valid_set_type(SYM_TYPE($1))) cf_error("%s: set-incompatible type", $1->name);
    $$ = *(struct f_val *)($1->def);
  }
;

switch_atom:
  NUM   { $$.type = T_INT; $$.val.i = $1; }
| '(' term ')' { $$.type = T_INT; $$.val.i = f_eval_int($2); }
| RTRID { $$.type = T_QUAD; $$.val.i = $1; }
| fipa  { $$ = $1;
 }
| ENUM  { $$.type = pair_a($1); $$.val.i = pair_b($1); }
;

cnum:
  term { $$ = f_eval_int($1); }

pair_item:
  '(' cnum ',' cnum ')'  { $$ = f_new_pair_item($2, $2, $4, $4); }
| '(' cnum ',' cnum DDOT cnum ')' { $$ = f_new_pair_item($2, $2, $4, $6); }
| '(' cnum ',' '*' ')'   { $$ = f_new_pair_item($2, $2, 0, CC_ALL); }
| '(' cnum DDOT cnum ',' cnum ')' { $$ = f_new_pair_set($2, $4, $6, $6); }
| '(' cnum DDOT cnum ',' cnum DDOT cnum ')' { $$ = f_new_pair_set($2, $4, $6, $8); }
| '(' cnum DDOT cnum ',' '*' ')' { $$ = f_new_pair_item($2, $4, 0, CC_ALL); }
| '(' '*' ',' cnum ')'   { $$ = f_new_pair_set(0, CC_ALL, $4, $4); }
| '(' '*' ',' cnum DDOT cnum ')' { $$ = f_new_pair_set(0, CC_ALL, $4, $6); }
| '(' '*' ',' '*' ')'   { $$ = f_new_pair_item(0, CC_ALL, 0, CC_ALL); }
| '(' cnum ',' cnum ')' DDOT '(' cnum ',' cnum ')'
  { $$ = f_new_pair_item($2, $8, $4, $10); }
;

ec_kind:
  RT { $$ = EC_RT; }
| RO { $$ = EC_RO; }
| UNKNOWN NUM { $$ = $2; }
| GENERIC { $$ = EC_GENERIC;
 }
;

ec_item:
```

```
  '(' ec_kind ',' cnum ',' cnum ')'  { $$ = f_new_ec_item($2, 0, $4, $6, $6); }
| '(' ec_kind ',' cnum ',' cnum DDOT cnum ')' { $$ = f_new_ec_item($2, 0, $4, $6, $8); }
| '(' ec_kind ',' cnum ',' '*' ')'  { $$ = f_new_ec_item($2, 0, $4, 0, EC_ALL); }
;

lc_item:
  '(' cnum ',' cnum ',' cnum ')'     { $$ = f_new_lc_item($2, $2, $4, $4, $6, $6); }
| '(' cnum ',' cnum ',' cnum DDOT cnum ')' { $$ = f_new_lc_item($2, $2, $4, $4, $6, $8); }
| '(' cnum ',' cnum ',' '*' ')'     { $$ = f_new_lc_item($2, $2, $4, $4, 0, LC_ALL); }
| '(' cnum ',' cnum DDOT cnum ',' '*' ')'  { $$ = f_new_lc_item($2, $2, $4, $6, 0, LC_ALL); }
| '(' cnum ',' '*' ',' '*' ')'      { $$ = f_new_lc_item($2, $2, 0, LC_ALL, 0, LC_ALL); }
| '(' cnum DDOT cnum ',' '*' ',' '*' ')'   { $$ = f_new_lc_item($2, $4, 0, LC_ALL, 0, LC_ALL); }
| '(' '*' ',' '*' ',' '*' ')'      { $$ = f_new_lc_item(0, LC_ALL, 0, LC_ALL, 0, LC_ALL); }
| '(' cnum ',' cnum ',' cnum ')' DDOT '(' cnum ',' cnum ',' cnum ')'
   { $$ = f_new_lc_item($2, $10, $4, $12, $6, $14); }
;

set_item:
  pair_item
| ec_item
| lc_item
| set_atom { $$ = f_new_item($1, $1); }
| set_atom DDOT set_atom { $$ = f_new_item($1, $3); }
;

switch_item:
  pair_item
| ec_item
| lc_item
| switch_atom { $$ = f_new_item($1, $1); }
| switch_atom DDOT switch_atom { $$ = f_new_item($1, $3); }
;

set_items:
  set_item
| set_items ',' set_item { $$ = f_merge_items($1, $3); }
;

switch_items:
  switch_item
| switch_items ',' switch_item { $$ = f_merge_items($1, $3); }
;

fprefix_s:
  IPA '/' NUM %prec '/' {
    if (($3 < 0) || ($3 > MAX_PREFIX_LENGTH) || !ip_is_prefix($1, $3)) cf_error("Invalid network prefix:
%I/%d.", $1, $3);
    $$.type = T_PREFIX; $$.val.px.ip = $1; $$.val.px.len = $3;
```

```
  }
;

fprefix:
  fprefix_s { $$ = $1; }
| fprefix_s '+' { $$ = $1; $$.val.px.len |= LEN_PLUS; }
| fprefix_s '-' { $$ = $1; $$.val.px.len |= LEN_MINUS; }
| fprefix_s '{' NUM ',' NUM '}' {
    if (! ((0 <= $3) && ($3 <= $5) &&
 ($5 <= MAX_PREFIX_LENGTH))) cf_error("Invalid prefix pattern range: {%d, %d}.", $3, $5);
    $$ = $1; $$.val.px.len |= LEN_RANGE | ($3 << 16) | ($5 << 8);
  }
;

fprefix_set:
  fprefix { $$ = f_new_trie(cfg_mem, sizeof(struct f_trie_node)); trie_add_fprefix($$, &($1.val.px)); }
| fprefix_set ',' fprefix { $$ = $1; trie_add_fprefix($$, &($3.val.px)); }
;

switch_body: /* EMPTY */ { $$ = NULL; }
| switch_body switch_items ':' cmds  {
    /* Fill data fields */
    struct f_tree *t;
    for (t = $2; t; t = t->left)
      t->data = $4;
    $$ = f_merge_items($1, $2);
  }
| switch_body ELSECOL cmds {
    struct f_tree *t = f_new_tree();
    t->from.type = t->to.type = T_VOID;
    t->right = t;
    t->data = $3;
    $$ = f_merge_items($1, t);
}
;

/* CONST '(' expr ')' { $$ = f_new_inst(FI_CONSTANT); $$->aux = T_INT; $$->a2.i = $3; } */

bgp_path_expr:
  symbol       { $$ = $1; }
| '(' term ')' { $$ = $2; }
;

bgp_path:
  PO  bgp_path_tail1 PC  { $$ = $2; }
| '/'
 bgp_path_tail2 '/' { $$ = $2; }
;
```

```
bgp_path_tail1:
  NUM bgp_path_tail1  { $$ = cfg_allocz(sizeof(struct f_path_mask)); $$->next = $2; $$->kind = PM_ASN; $$->val
= $1; }
| NUM DDOT NUM bgp_path_tail1 { $$ = cfg_allocz(sizeof(struct f_path_mask)); $$->next = $4; $$->kind =
PM_ASN_RANGE; $$->val = $1; $$->val2 = $3; }
| '*' bgp_path_tail1  { $$ = cfg_allocz(sizeof(struct f_path_mask)); $$->next = $2; $$->kind = PM_ASTERISK; }
| '?' bgp_path_tail1  { $$ = cfg_allocz(sizeof(struct f_path_mask)); $$->next = $2; $$->kind = PM_QUESTION; }
| bgp_path_expr bgp_path_tail1 { $$ = cfg_allocz(sizeof(struct f_path_mask)); $$->next = $2; $$->kind =
PM_ASN_EXPR; $$->val = (uintptr_t) $1; }
|     { $$ = NULL; }
;

bgp_path_tail2:
  NUM bgp_path_tail2 { $$ = cfg_allocz(sizeof(struct f_path_mask)); $$->next = $2; $$->kind = PM_ASN; $$->val
= $1; }
| '?' bgp_path_tail2 { $$ = cfg_allocz(sizeof(struct f_path_mask)); $$->next = $2; $$->kind = PM_ASTERISK; }
|         { $$ = NULL; }
;

constant:
   NUM    { $$ = f_new_inst(FI_CONSTANT); $$->aux = T_INT;  $$->a2.i = $1; }
| TRUE   { $$ = f_new_inst(FI_CONSTANT); $$->aux = T_BOOL; $$->a2.i = 1;  }
| FALSE  { $$ = f_new_inst(FI_CONSTANT); $$->aux = T_BOOL; $$->a2.i = 0;  }
| TEXT   { $$ = f_new_inst(FI_CONSTANT); $$->aux = T_STRING; $$->a2.p = $1; }
| fipa    { NEW_F_VAL; $$ = f_new_inst(FI_CONSTANT_INDIRECT); $$->a1.p = val; *val = $1; }
| fprefix_s {NEW_F_VAL; $$ = f_new_inst(FI_CONSTANT_INDIRECT); $$->a1.p = val; *val = $1; }
| RTRID  { $$ = f_new_inst(FI_CONSTANT); $$->aux = T_QUAD;  $$->a2.i = $1; }
| '[' set_items ']' { DBG( "We've got a set here..." ); $$ = f_new_inst(FI_CONSTANT); $$->aux = T_SET; $$->a2.p
= build_tree($2); DBG( "ook\n" ); }
| '[' fprefix_set ']' { $$ = f_new_inst(FI_CONSTANT); $$->aux = T_PREFIX_SET;  $$->a2.p = $2; }
| ENUM   { $$ = f_new_inst(FI_CONSTANT); $$->aux = $1 >> 16; $$->a2.i = $1 & 0xffff; }
;

constructor:
  '(' term ',' term ')' { $$ = f_generate_dpair($2, $4); }
| '(' ec_kind ','
 term ',' term ')' { $$ = f_generate_ec($2, $4, $6); }
| '(' term ',' term ',' term ')' { $$ = f_generate_lc($2, $4, $6); }
| bgp_path { $$ = f_generate_path_mask($1); }
;


/*
*  Maybe there are no dynamic attributes defined by protocols.
*  For such cases, we force the dynamic_attr list to contain
*  at least an invalid token, so it is syntantically correct.
*/
```

```
CF_ADDTO(dynamic_attr, INVALID_TOKEN { $$ = (struct f_dynamic_attr) {}; })

rtadot: /* EMPTY, we are not permitted RTA. prefix */
;

function_call:
  SYM '(' var_list ')' {
    struct symbol *sym;
    struct f_inst *inst = $3;
    if ($1->class != SYM_FUNCTION)
      cf_error("You can't call something which is not a function. Really.");
    DBG("You are calling function %s\n", $1->name);
    $$ = f_new_inst(FI_CALL);
    $$->a1.p = inst;
    $$->a2.p = $1->def;
    sym = $1->aux2;
    while (sym || inst) {
      if (!sym || !inst)
  cf_error("Wrong number of arguments for function %s.", $1->name);

 DBG( "You should pass parameter called %s\n", sym->name);
      inst->a1.p = sym;
      sym = sym->aux2;
      inst = inst->next;
    }
  }
;

symbol:
  SYM {
    switch ($1->class & 0xff00) {
      case SYM_CONSTANT: $$ = f_new_inst(FI_CONSTANT_INDIRECT); break;
      case SYM_VARIABLE: $$ = f_new_inst(FI_VARIABLE); break;
      default: cf_error("%s: variable expected.", $1->name);
    }

    $$->a1.p = $1->def;
    $$->a2.p = $1->name;
  }

static_attr:
  FROM    { $$ = f_new_static_attr(T_IP,         SA_FROM, 1); }
| GW      { $$ = f_new_static_attr(T_IP,         SA_GW, 1); }
| NET     { $$ = f_new_static_attr(T_PREFIX,     SA_NET, 0); }
| PROTO   { $$ = f_new_static_attr(T_STRING,     SA_PROTO, 0); }
| SOURCE  { $$ = f_new_static_attr(T_ENUM_RTS,   SA_SOURCE, 0); }
| SCOPE   { $$ = f_new_static_attr(T_ENUM_SCOPE, SA_SCOPE, 1); }
| CAST    { $$ = f_new_static_attr(T_ENUM_RTC,   SA_CAST, 0); }
```

```
| DEST    { $$ = f_new_static_attr(T_ENUM_RTD,   SA_DEST, 1); }
|
 IFNAME  { $$ = f_new_static_attr(T_STRING,     SA_IFNAME, 1); }
| IFINDEX { $$ = f_new_static_attr(T_INT,        SA_IFINDEX, 0); }
;

term:
  '(' term ')'  { $$ = $2; }
| term '+' term { $$ = f_new_inst(FI_ADD); $$->a1.p = $1; $$->a2.p = $3; }
| term '-' term { $$ = f_new_inst(FI_SUBTRACT); $$->a1.p = $1; $$->a2.p = $3; }
| term '*' term { $$ = f_new_inst(FI_MULTIPLY); $$->a1.p = $1; $$->a2.p = $3; }
| term '/' term { $$ = f_new_inst(FI_DIVIDE); $$->a1.p = $1; $$->a2.p = $3; }
| term AND term { $$ = f_new_inst(FI_AND); $$->a1.p = $1; $$->a2.p = $3; }
| term OR  term { $$ = f_new_inst(FI_OR); $$->a1.p = $1; $$->a2.p = $3; }
| term '=' term { $$ = f_new_inst(FI_EQ); $$->a1.p = $1; $$->a2.p = $3; }
| term NEQ term { $$ = f_new_inst(FI_NEQ); $$->a1.p = $1; $$->a2.p = $3; }
| term '<' term { $$ = f_new_inst(FI_LT); $$->a1.p = $1; $$->a2.p = $3; }
| term LEQ term { $$ = f_new_inst(FI_LTE); $$->a1.p = $1; $$->a2.p = $3; }
| term '>' term { $$ = f_new_inst(FI_LT); $$->a1.p = $3;
 $$->a2.p = $1; }
| term GEQ term { $$ = f_new_inst(FI_LTE); $$->a1.p = $3; $$->a2.p = $1; }
| term '~' term { $$ = f_new_inst(FI_MATCH); $$->a1.p = $1; $$->a2.p = $3; }
| term NMA term { $$ = f_new_inst(FI_NOT_MATCH);$$->a1.p = $1; $$->a2.p = $3; }
| '!' term  { $$ = f_new_inst(FI_NOT); $$->a1.p = $2; }
| DEFINED '(' term ')' { $$ = f_new_inst(FI_DEFINED); $$->a1.p = $3; }

| symbol   { $$ = $1; }
| constant { $$ = $1; }
| constructor { $$ = $1; }

| PREFERENCE { $$ = f_new_inst(FI_PREF_GET); }

| rtadot static_attr { $$ = f_new_inst_sa(FI_RTA_GET, $2); }

| rtadot dynamic_attr { $$ = f_new_inst_da(FI_EA_GET, $2); }

| term '.' IP { $$ = f_new_inst(FI_IP); $$->a1.p = $1; $$->aux = T_IP; }
| term '.' LEN { $$ = f_new_inst(FI_LENGTH); $$->a1.p = $1; }
| term '.' MASK '(' term ')' { $$ = f_new_inst(FI_IP_MASK); $$->a1.p = $1; $$->a2.p = $5; }
| term '.' FIRST { $$ = f_new_inst(FI_AS_PATH_FIRST); $$->a1.p = $1; }
| term '.' LAST  { $$ = f_new_inst(FI_AS_PATH_LAST); $$->a1.p
 = $1; }
| term '.' LAST_NONAGGREGATED  { $$ = f_new_inst(FI_AS_PATH_LAST_NAG); $$->a1.p = $1; }

/* Communities */
/* This causes one shift/reduce conflict
| rtadot dynamic_attr '.' ADD '(' term ')' { }
| rtadot dynamic_attr '.' DELETE '(' term ')' { }
```

```
| rtadot dynamic_attr '.' CONTAINS '(' term ')' { }
| rtadot dynamic_attr '.' RESET{ }
*/

| '+' EMPTY '+' { $$ = f_new_inst(FI_EMPTY); $$->aux = T_PATH; }
| '-' EMPTY '-' { $$ = f_new_inst(FI_EMPTY); $$->aux = T_CLIST; }
| '-' '-' EMPTY '-' '-' { $$ = f_new_inst(FI_EMPTY); $$->aux = T_ECLIST; }
| '-' '-' '-' EMPTY '-' '-' '-' { $$ = f_new_inst(FI_EMPTY); $$->aux = T_LCLIST; }
| PREPEND '(' term ',' term ')' { $$ = f_new_inst(FI_PATH_PREPEND); $$->a1.p = $3; $$->a2.p = $5; }
| ADD '(' term ',' term ')' { $$ = f_new_inst(FI_CLIST_ADD_DEL); $$->a1.p = $3; $$->a2.p = $5; $$->aux = 'a'; }
| DELETE '(' term ',' term ')' { $$ = f_new_inst(FI_CLIST_ADD_DEL); $$->a1.p = $3; $$->a2.p = $5; $$->aux =
'd'; }
| FILTER '(' term ',' term
 ')' { $$ = f_new_inst(FI_CLIST_ADD_DEL); $$->a1.p = $3; $$->a2.p = $5; $$->aux = 'f'; }

| ROA_CHECK '(' SYM ')' { $$ = f_generate_roa_check($3, NULL, NULL); }
| ROA_CHECK '(' SYM ',' term ',' term ')' { $$ = f_generate_roa_check($3, $5, $7); }

/* function_call is inlined here */
| SYM '(' var_list ')' {
    struct symbol *sym;
    struct f_inst *inst = $3;
    if ($1->class != SYM_FUNCTION)
      cf_error("You can't call something which is not a function. Really.");
    DBG("You are calling function %s\n", $1->name);
    $$ = f_new_inst(FI_CALL);
    $$->a1.p = inst;
    $$->a2.p = $1->def;
    sym = $1->aux2;
    while (sym || inst) {
      if (!sym || !inst)
  cf_error("Wrong number of arguments for function %s.", $1->name);
      DBG( "You should pass parameter called %s\n", sym->name);
      inst->a1.p = sym;
      sym = sym->aux2;
      inst = inst->next;
    }
  }
;

break_command:
  QUITBIRD { $$ = F_QUITBIRD; }
| ACCEPT { $$ = F_ACCEPT; }
| REJECT { $$
 = F_REJECT; }
| ERROR { $$ = F_ERROR; }
| PRINT { $$ = F_NOP; }
| PRINTN { $$ = F_NONL; }
```

```
;

print_one:
  term { $$ = f_new_inst(FI_PRINT); $$->a1.p = $1; $$->a2.p = NULL; }
;

print_list: /* EMPTY */ { $$ = NULL; }
| print_one { $$ = $1; }
| print_one ',' print_list {
    if ($1) {
      $1->next = $3;
      $$ = $1;
    } else $$ = $3;
  }
;

var_listn: term {
    $$ = f_new_inst(FI_SET);
    $$->a1.p = NULL;
    $$->a2.p = $1;
    $$->next = NULL;
  }
| term ',' var_listn {
    $$ = f_new_inst(FI_SET);
    $$->a1.p = NULL;
    $$->a2.p = $1;
    $$->next = $3;
  }
;

var_list: /* EMPTY */ { $$ = NULL; }
| var_listn { $$ = $1; }
;

cmd:
  IF term THEN block {
    $$ = f_new_inst(FI_CONDITION);
    $$->a1.p = $2;
    $$->a2.p = $4;
  }
| IF term THEN block ELSE block {
    struct f_inst *i = f_new_inst(FI_CONDITION);
    i->a1.p = $2;
    i->a2.p = $4;
    $$ = f_new_inst(FI_CONDITION);
    $$->a1.p = i;
    $$->a2.p = $6;
  }
```

```
| SYM '=' term
 ';' {
    DBG( "Ook, we'll set value\n" );
    if (($1->class & ~T_MASK) != SYM_VARIABLE)
      cf_error( "You may set only variables." );
    $$ = f_new_inst(FI_SET);
    $$->a1.p = $1;
    $$->a2.p = $3;
  }
| RETURN term ';' {
    DBG( "Ook, we'll return the value\n" );
    $$ = f_new_inst(FI_RETURN);
    $$->a1.p = $2;
  }
| rtadot dynamic_attr '=' term ';' {
    $$ = f_new_inst_da(FI_EA_SET, $2);
    $$->a1.p = $4;
  }
| rtadot static_attr '=' term ';' {
    $$ = f_new_inst_sa(FI_RTA_SET, $2);
    if (!$$->a1.i)
      cf_error( "This static attribute is read-only.");
    $$->a1.p = $4;
  }
| PREFERENCE '=' term ';' {
    $$ = f_new_inst(FI_PREF_SET);
    $$->a1.p = $3;
  }
| UNSET '(' rtadot dynamic_attr ')' ';' {
    $$ = f_new_inst_da(FI_EA_SET, $4);
    $$->aux = EAF_TYPE_UNDEF | EAF_TEMP;
    $$->a1.p = NULL;
  }
| break_command print_list ';' { $$ = f_new_inst(FI_PRINT_AND_DIE); $$->a1.p = $2; $$->a2.i = $1; }
| function_call ';' { $$ = $1; }
 | CASE term '{' switch_body '}' {
     $$ = f_new_inst(FI_SWITCH);
     $$->a1.p = $2;
     $$->a2.p = build_tree( $4 );
  }


| rtadot dynamic_attr '.' EMPTY ';' { $$ = f_generate_empty($2); }
| rtadot dynamic_attr '.' PREPEND '(' term ')' ';'   { $$ = f_generate_complex( FI_PATH_PREPEND, 'x', $2, $6 ); }
| rtadot dynamic_attr '.' ADD '(' term ')' ';'       { $$ = f_generate_complex( FI_CLIST_ADD_DEL, 'a', $2, $6 ); }
| rtadot dynamic_attr '.' DELETE '(' term ')' ';'    { $$ = f_generate_complex( FI_CLIST_ADD_DEL, 'd', $2, $6 ); }
| rtadot dynamic_attr '.' FILTER '(' term ')' ';'    { $$ = f_generate_complex( FI_CLIST_ADD_DEL, 'f', $2, $6 ); }
;
```

CF_END

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/filter/config.Y
No license file was found, but licenses were detected in source scan.

```
/*
* BIRD Resource Manager -- Memory Pools
*
* (c) 1998--2000 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/lib/mempool.c
No license file was found, but licenses were detected in source scan.

```
/*
* BIRD Library -- MD5 Hash Function and HMAC-MD5 Function
*
* (c) 2015 CZ.NIC z.s.p.o.
*
* The code was written by Colin Plumb in 1993, no copyright is claimed.
*
* Adapted for BIRD by Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/lib/md5.c
No license file was found, but licenses were detected in source scan.

```
/*
* BIRD Internet Routing Daemon -- Routing Table
*
* (c) 1998--2000 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/nest/route.h
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* Configuration for Linux based systems
*
* (c) 1998--1999 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/sysdep/cf/linux.h
No license file was found, but licenses were detected in source scan.

```
/*
* BIRD Internet Routing Daemon -- Random Numbers
*
* (c) 2000 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/sysdep/unix/random.c
No license file was found, but licenses were detected in source scan.

```
/*
* BIRD -- The Babel protocol
*
* Copyright (c) 2015--2016 Toke Hoiland-Jorgensen
*
* Can be freely distributed and used under the terms of the GNU GPL.
*
* This file contains the packet and TLV handling code for the protocol.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/proto/babel/packets.c
No license file was found, but licenses were detected in source scan.

```
/*
* BIRD -- Configuration Parser Top
*
* (c) 1998--2000 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/conf/confbase.Y

No license file was found, but licenses were detected in source scan.

```
/*
* BIRD -- Documentation for Protocol Hooks (dummy source file)
*
* (c) 2000 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/nest/proto-hooks.c
No license file was found, but licenses were detected in source scan.

```
/*
* BIRD Library -- IP One-Complement Checksum
*
* (c) 1999 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/lib/checksum.h
No license file was found, but licenses were detected in source scan.

```
/*
* BIRD Resource Manager
*
* (c) 1998--2000 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/lib/resource.c
No license file was found, but licenses were detected in source scan.

```
/*
* BIRD Internet Routing Daemon -- Linux Multicasting and Network Includes
*
* (c) 1998--2000 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/sysdep/linux/sysio.h

No license file was found, but licenses were detected in source scan.

```
/*
* BIRD -- The Babel protocol
*
* Copyright (c) 2015--2016 Toke Hoiland-Jorgensen
*
* Can be freely distributed and used under the terms of the GNU GPL.
*
* This file contains the data structures used by Babel.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/proto/babel/babel.h
No license file was found, but licenses were detected in source scan.

```
/*
* BIRD Library -- Fletcher-16 checksum
*
* (c) 2015 Ondrej Zajicek <santiago@crfreenet.org>
* (c) 2015 CZ.NIC z.s.p.o.
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/lib/fletcher16.h
No license file was found, but licenses were detected in source scan.

```
/*
* BIRD Library -- Token Bucket Filter
*
* (c) 2014 Ondrej Zajicek <santiago@crfreenet.org>
* (c) 2014 CZ.NIC z.s.p.o.
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/lib/tbf.c
No license file was found, but licenses were detected in source scan.

```
/*
* Filters: Trie for prefix sets
*
* Copyright 2009 Ondrej Zajicek <santiago@crfreenet.org>
*
* Can be freely distributed and used under the terms of the GNU GPL.
```

*/

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/filter/trie.c
No license file was found, but licenses were detected in source scan.

% Copyright (c)1992-97 Corel Corporation
% All rights reserved. v8.0 r0.7

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/doc/slides/logo.eps
No license file was found, but licenses were detected in source scan.

/*
* BIRD -- Declarations Common to Unix Port
*
* (c) 1998--2000 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/sysdep/unix/unix.h
No license file was found, but licenses were detected in source scan.

/*
* BIRD Library -- Safe Linked Lists
*
* (c) 1998 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/lib/slists.c
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/lib/slists.h
No license file was found, but licenses were detected in source scan.

/*
* BIRD Client
*
* (c) 1999--2004 Martin Mares <mj@ucw.cz>
* (c) 2013 Tomas Hlavacek <tmshlvck@gmail.com>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/

Found in path(s):

* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/client/client.c
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```
/*
* BIRD Library -- SHA-512 and SHA-384 Hash Functions
*
* (c) 2015 CZ.NIC z.s.p.o.
*
* Based on the code from libgcrypt-1.6.0, which is
* (c) 2003, 2006, 2008, 2009 Free Software Foundation, Inc.
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/lib/sha512.h
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/lib/sha512.c
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```
/*
* BIRD Internet Routing Daemon -- Filters
*
* (c) 1999 Pavel Machek <pavel@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/filter/filter.h
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```
/*
* BIRD Library -- IP One-Complement Checksum
*
* (c) 1999--2000 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/lib/checksum.c
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```
/*
* BIRD Library -- Generic Hash Table
*
* (c) 2013 Ondrej Zajicek <santiago@crfreenet.org>
* (c) 2013 CZ.NIC z.s.p.o.
```

*
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*/

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/lib/hash.h
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/*
* BIRD Library -- MD5 Hash Function and HMAC-MD5 Function
*
* (c) 2015 CZ.NIC z.s.p.o.
*
* Adapted for BIRD by Martin Mares <mj@ucw.cz>
*
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*/

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/lib/md5.h
No license file was found, but licenses were detected in source scan.

/*
* BIRD -- Unix Timers
*
* (c) 1998 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/sysdep/unix/timer.h
No license file was found, but licenses were detected in source scan.

/*
* BIRD Client -- Utility Functions
*
* (c) 1999--2000 Martin Mares <mj@ucw.cz>
*
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*/

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/client/util.c
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/*
* BIRD Library -- Linked Lists

```
*
* (c) 1998 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/lib/lists.h
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/lib/lists.c
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```
/*
* BIRD Client - Readline variant I/O
*
* (c) 1999--2004 Martin Mares <mj@ucw.cz>
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```

Found in path(s):
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```
/*
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*
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*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/proto/bgp/attrs.c
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```
/*
* BIRD -- Core Configuration
*
* (c) 1998--2000 Martin Mares <mj@ucw.cz>
*      (c) 2004       Ondrej Filip <feela@network.cz>
*
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*/
```

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/nest/config.Y
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/*
* BIRD -- UNIX Configuration
*
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*
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Found in path(s):
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No license file was found, but licenses were detected in source scan.

/*
* BIRD Internet Routing Daemon -- Unix I/O
*
* (c) 1998--2004 Martin Mares <mj@ucw.cz>
* (c) 2004 Ondrej Filip <feela@network.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/

Found in path(s):
* /opt/cola/permits/1677097980_1684314103.065371/0/bird-1-6-8-zip/bird-1.6.8/sysdep/unix/io.c

1.2508 bridgeutils 1.7-1

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1.2513 coreutils 8.30-15.el8

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# under the same terms as Perl itself.
#
# Altered to output in `context diff' format (but without context)
# September 1998 Christian Murphy (cpm@muc.de)
```

```
#
# Command-line arguments and context lines feature added
# September 1998 Amir D. Karger (karger@bead.aecom.yu.edu)
#
# In this file, "item" usually means "line of text", and "item number" usually
# means "line number". But theoretically the code could be used more generally
use strict;

use Algorithm::Diff qw(diff);
use File::stat;
use vars qw ($opt_C $opt_c $opt_u $opt_U);
use Getopt::Std;

my $usage = << "ENDUSAGE";
Usage: $0 [{-c | -u}] [{-C | -U} lines] oldfile newfile
   -c will do a context diff with 3 lines of context
   -C will do a context diff with 'lines' lines of context
    -u will do a unified diff with 3 lines of context
   -U will do a unified diff with 'lines' lines of context
ENDUSAGE

getopts('U:C:cu') or bag("$usage");
bag("$usage") unless @ARGV == 2;
my ($file1, $file2) = @ARGV;
if (defined $opt_C || defined $opt_c) {
   $opt_c = ""; # -c on if -C given on command line
   $opt_u = undef;
} elsif (defined $opt_U || defined $opt_u) {
   $opt_u = ""; # -u on if -U given on command line
   $opt_c = undef;
} else {
   $opt_c = ""; # by default, do context diff, not old diff
}

my ($char1, $char2); # string to print before file names
my $Context_Lines; # lines of context to print
if (defined $opt_c) {
   $Context_Lines = defined $opt_C ? $opt_C : 3;
   $char1 = '*' x 3; $char2 = '-' x 3;
} elsif (defined $opt_u) {
   $Context_Lines = defined $opt_U ? $opt_U : 3;
   $char1 = '-' x 3; $char2 = '+' x 3;
}

# After we've read up to a certain point in each file, the number of items
# we've read from each file will differ by $FLD (could be 0)
my
```

```
 $File_Length_Difference = 0;

open (F1, $file1) or bag("Couldn't open $file1: $!");
open (F2, $file2) or bag("Couldn't open $file2: $!");
my (@f1, @f2);
chomp(@f1 = <F1>);
close F1;
chomp(@f2 = <F2>);
close F2;

# diff yields lots of pieces, each of which is basically a Block object
my $diffs = diff(\@f1, \@f2);
exit 0 unless @$diffs;

my $st = stat($file1);
print "$char1 $file1\t", scalar localtime($st->mtime), "\n";
$st = stat($file2);
print "$char2 $file2\t", scalar localtime($st->mtime), "\n";

my ($hunk,$oldhunk);
# Loop over hunks. If a hunk overlaps with the last hunk, join them.
# Otherwise, print out the old one.
foreach my $piece (@$diffs) {
   $hunk = new Hunk ($piece, $Context_Lines);
   next unless $oldhunk;

   if ($hunk->does_overlap($oldhunk)) {
 $hunk->prepend_hunk($oldhunk);
   } else {
 $oldhunk->output_diff(\@f1, \@f2);
   }

} continue {
   $oldhunk = $hunk;
}

# print the last hunk
$oldhunk->output_diff(\@f1, \@f2);
exit 1;
# END MAIN PROGRAM

sub bag {
 my
 $msg = shift;
 $msg .= "\n";
 warn $msg;
 exit 2;
}
```

```
# Package Hunk. A Hunk is a group of Blocks which overlap because of the
# context surrounding each block. (So if we're not using context, every
# hunk will contain one block.)
{
package Hunk;

sub new {
# Arg1 is output from &LCS::diff (which corresponds to one Block)
# Arg2 is the number of items (lines, e.g.,) of context around each block
#
# This subroutine changes $File_Length_Difference
#
# Fields in a Hunk:
# blocks      - a list of Block objects
# start       - index in file 1 where first block of the hunk starts
# end         - index in file 1 where last block of the hunk ends
#
# Variables:
# before_diff - how much longer file 2 is than file 1 due to all hunks
#               until but NOT including this one
# after_diff  - difference due to all hunks including this one
   my ($class, $piece, $context_items) = @_;

   my $block = new Block ($piece); # this modifies $FLD!

   my $before_diff = $File_Length_Difference;
 # BEFORE this hunk
   my $after_diff = $before_diff + $block->{"length_diff"};
   $File_Length_Difference += $block->{"length_diff"};

   # @remove_array and @insert_array hold the items to insert and remove
   # Save the start & beginning of each array. If the array doesn't exist
   # though (e.g., we're only adding items in this block), then figure
   # out the line number based on the line number of the other file and
   # the current difference in file lengths
   my @remove_array = $block->remove;
   my @insert_array = $block->insert;
   my ($a1, $a2, $b1, $b2, $start1, $start2, $end1, $end2);
   $a1 = @remove_array ? $remove_array[0 ]->{"item_no"} : -1;
   $a2 = @remove_array ? $remove_array[-1]->{"item_no"} : -1;
   $b1 = @insert_array ? $insert_array[0 ]->{"item_no"} : -1;
   $b2 = @insert_array ? $insert_array[-1]->{"item_no"} : -1;

   $start1 = $a1 == -1 ? $b1 - $before_diff : $a1;
   $end1   = $a2 == -1 ? $b2 - $after_diff  : $a2;
   $start2 = $b1 == -1 ?
```

```
 $a1 + $before_diff : $b1;
  $end2   = $b2 == -1 ? $a2 + $after_diff  : $b2;

  # At first, a hunk will have just one Block in it
  my $hunk = {
    "start1" => $start1,
    "start2" => $start2,
    "end1" => $end1,
    "end2" => $end2,
    "blocks" => [$block],
            };
  bless $hunk, $class;

  $hunk->flag_context($context_items);

  return $hunk;
}

# Change the "start" and "end" fields to note that context should be added
# to this hunk
sub flag_context {
  my ($hunk, $context_items) = @_;
  return unless $context_items; # no context

  # add context before
  my $start1 = $hunk->{"start1"};
  my $num_added = $context_items > $start1 ? $start1 : $context_items;
  $hunk->{"start1"} -= $num_added;
  $hunk->{"start2"} -= $num_added;

  # context after
  my $end1 = $hunk->{"end1"};
  $num_added = ($end1+$context_items > $#f1) ?
              $#f1 - $end1 :
              $context_items;
  $hunk->{"end1"} += $num_added;
  $hunk->{"end2"}
 += $num_added;
}

# Is there an overlap between hunk arg0 and old hunk arg1?
# Note: if end of old hunk is one less than beginning of second, they overlap
sub does_overlap {
  my ($hunk, $oldhunk) = @_;
  return "" unless $oldhunk; # first time through, $oldhunk is empty

  # Do I actually need to test both?
  return ($hunk->{"start1"} - $oldhunk->{"end1"} <= 1 ||
```

```
        $hunk->{"start2"} - $oldhunk->{"end2"} <= 1);
}

# Prepend hunk arg1 to hunk arg0
# Note that arg1 isn't updated! Only arg0 is.
sub prepend_hunk {
  my ($hunk, $oldhunk) = @_;

  $hunk->{"start1"} = $oldhunk->{"start1"};
  $hunk->{"start2"} = $oldhunk->{"start2"};

  unshift (@{$hunk->{"blocks"}}, @{$oldhunk->{"blocks"}});
}


# DIFF OUTPUT ROUTINES. THESE ROUTINES CONTAIN DIFF FORMATTING INFO...
sub output_diff {
  if    (defined $main::opt_u) {&output_unified_diff(@_)}
  elsif (defined $main::opt_c) {&output_context_diff(@_)}
  else {die "unknown diff"}
}

sub output_unified_diff {

 my ($hunk, $fileref1, $fileref2) = @_;
  my @blocklist;

  # Calculate item number range.
  my $range1 = $hunk->unified_range(1);
  my $range2 = $hunk->unified_range(2);
  print "@@ -$range1 +$range2 @@\n";

  # Outlist starts containing the hunk of file 1.
  # Removing an item just means putting a '-' in front of it.
  # Inserting an item requires getting it from file2 and splicing it in.
  #    We splice in $num_added items. Remove blocks use $num_added because
  # splicing changed the length of outlist.
  #    We remove $num_removed items. Insert blocks use $num_removed because
  # their item numbers---corresponding to positions in file *2*--- don't take
  # removed items into account.
  my $low = $hunk->{"start1"};
  my $hi = $hunk->{"end1"};
  my ($num_added, $num_removed) = (0,0);
  my @outlist = @$fileref1[$low..$hi];
  map {s/^/ /} @outlist; # assume it's just context

  foreach my $block (@{$hunk->{"blocks"}}) {
 foreach my $item ($block->remove)
```

```
 {
    my $op = $item->{"sign"}; # -
    my $offset = $item->{"item_no"} - $low + $num_added;
    $outlist[$offset] =~ s/^ /$op/;
    $num_removed++;
 }
 foreach my $item ($block->insert) {
    my $op = $item->{"sign"}; # +
    my $i = $item->{"item_no"};
    my $offset = $i - $hunk->{"start2"} + $num_removed;
    splice(@outlist,$offset,0,"$op$$fileref2[$i]");
    $num_added++;
 }
   }

  map {s/$/\n/} @outlist; # add \n's
  print @outlist;

}

sub output_context_diff {
  my ($hunk, $fileref1, $fileref2) = @_;
  my @blocklist;

  print "****************\n";
  # Calculate item number range.
  my $range1 = $hunk->context_range(1);
  my $range2 = $hunk->context_range(2);

  # Print out file 1 part for each block in context diff format if there are
  # any blocks that remove items
  print "*** $range1 ****\n";
  my $low = $hunk->{"start1"};
  my $hi  = $hunk->{"end1"};
  if (@blocklist = grep {$_->remove} @{$hunk->{"blocks"}}) {
 my @outlist =
 @$fileref1[$low..$hi];
 map {s/^/  /} @outlist; # assume it's just context
 foreach my $block (@blocklist) {
    my $op = $block->op; # - or !
    foreach my $item ($block->remove) {
  $outlist[$item->{"item_no"} - $low] =~ s/^ /$op/;
    }
 }
 map {s/$/\n/} @outlist; # add \n's
 print @outlist;
   }
```

```
  print "--- $range2 ----\n";
  $low = $hunk->{"start2"};
  $hi  = $hunk->{"end2"};
  if (@blocklist = grep {$_->insert} @{$hunk->{"blocks"}}) {
 my @outlist = @$fileref2[$low..$hi];
 map {s/^/  /} @outlist; # assume it's just context
 foreach my $block (@blocklist) {
    my $op = $block->op; # + or !
    foreach my $item ($block->insert) {
  $outlist[$item->{"item_no"} - $low] =~ s/^ /$op/;
    }
 }
 map {s/$/\n/} @outlist; # add \n's
 print @outlist;
  }
}

sub context_range {
# Generate a range of item numbers to print. Only print 1 number if the range
# has only one item in it. Otherwise, it's 'start,end'
  my ($hunk, $flag) = @_;
  my ($start, $end) = ($hunk->{"start$flag"},$hunk->{"end$flag"});
   $start++; $end++;  # index from 1, not zero
  my $range = ($start < $end) ? "$start,$end" : $end;
  return $range;
}

sub unified_range {
# Generate a range of item numbers to print for unified diff
# Print number where block starts, followed by number of lines in the block
# (don't print number of lines if it's 1)
  my ($hunk, $flag) = @_;
  my ($start, $end) = ($hunk->{"start$flag"},$hunk->{"end$flag"});
  $start++; $end++;  # index from 1, not zero
  my $length = $end - $start + 1;
  my $first = $length < 2 ? $end : $start; # strange, but correct...
  my $range = $length== 1 ? $first : "$first,$length";
  return $range;
}
} # end Package Hunk

# Package Block. A block is an operation removing, adding, or changing
# a group of items. Basically, this is just a list of changes, where each
# change adds or deletes a single item.
# (Change could be a separate class, but it didn't seem worth it)
{
package Block;
sub new {
```

```
# Input is
 a chunk from &Algorithm::LCS::diff
# Fields in a block:
# length_diff - how much longer file 2 is than file 1 due to this block
# Each change has:
# sign        - '+' for insert, '-' for remove
# item_no     - number of the item in the file (e.g., line number)
# We don't bother storing the text of the item
#
   my ($class,$chunk) = @_;
   my @changes = ();

# This just turns each change into a hash.
   foreach my $item (@$chunk) {
 my ($sign, $item_no, $text) = @$item;
 my $hashref = {"sign" => $sign, "item_no" => $item_no};
 push @changes, $hashref;
   }

   my $block = { "changes" => \@changes };
   bless $block, $class;

   $block->{"length_diff"} = $block->insert - $block->remove;
   return $block;
}


# LOW LEVEL FUNCTIONS
sub op {
# what kind of block is this?
   my $block = shift;
   my $insert = $block->insert;
   my $remove = $block->remove;

   $remove && $insert and return '!';
   $remove and return '-';
   $insert and return '+';
   warn "unknown block type";
    return '^'; # context block
}

# Returns a list of the changes in this block that remove items
# (or the number of removals if called in scalar context)
sub remove { return grep {$_->{"sign"} eq '-'} @{shift->{"changes"}}; }

# Returns a list of the changes in this block that insert items
sub insert { return grep {$_->{"sign"} eq '+'} @{shift->{"changes"}}; }
```

```
} # end of package Block
```

Found in path(s):
* /opt/cola/permits/1678743141_1684317966.90102/0/libalgorithm-diff-perl-1-201-orig-1-tar-gz/Algorithm-Diff-1.201/bin/cdiff.pl
No license file was found, but licenses were detected in source scan.

```
#!/usr/bin/perl
#
# `Diff' program in Perl
# Copyright 1998 M-J. Dominus. (mjd-perl-diff@plover.com)
#
# This program is free software; you can redistribute it and/or modify it
# under the same terms as Perl itself.
#

use Algorithm::Diff qw(diff);

bag("Usage: $0 oldfile newfile") unless @ARGV == 2;

my ($file1, $file2) = @ARGV;

# -f $file1 or bag("$file1: not a regular file");
# -f $file2 or bag("$file2: not a regular file");

-T $file1 or bag("$file1: binary");
-T $file2 or bag("$file2: binary");

open (F1, $file1) or bag("Couldn't open $file1: $!");
open (F2, $file2) or bag("Couldn't open $file2: $!");
chomp(@f1 = <F1>);
close F1;
chomp(@f2 = <F2>);
close F2;

$diffs = diff(\@f1, \@f2);
exit 0 unless @$diffs;

foreach $chunk (@$diffs) {

 foreach $line (@$chunk) {
   my ($sign, $lineno, $text) = @$line;
   printf "%4d$sign %s\n", $lineno+1, $text;
 }
 print "--------\n";
}
exit 1;
```

```
sub bag {
 my $msg = shift;
  $msg .= "\n";
 warn $msg;
 exit 2;
}
```

Found in path(s):
* /opt/cola/permits/1678743141_1684317966.90102/0/libalgorithm-diff-perl-1-201-orig-1-tar-gz/Algorithm-Diff-1.201/bin/diff.pl
No license file was found, but licenses were detected in source scan.

```
=head1 NAME

Algorithm::Diff - Compute `intelligent' differences between two files / lists

=head1 SYNOPSIS

  require Algorithm::Diff;

  # This example produces traditional 'diff' output:

  my $diff = Algorithm::Diff->new( \@seq1, \@seq2 );

  $diff->Base( 1 );   # Return line numbers, not indices
  while(  $diff->Next()  ) {
     next   if  $diff->Same();
     my $sep = '';
     if(  ! $diff->Items(2)  ) {
        printf "%d,%dd%d\n",
           $diff->Get(qw( Min1 Max1 Max2 ));
     } elsif(  ! $diff->Items(1)  ) {
        printf "%da%d,%d\n",
           $diff->Get(qw( Max1 Min2 Max2 ));
     } else {
        $sep = "---\n";
        printf "%d,%dc%d,%d\n",
           $diff->Get(qw( Min1 Max1 Min2 Max2 ));
     }
     print "< $_"   for  $diff->Items(1);
     print $sep;
     print "> $_"   for  $diff->Items(2);
  }


  # Alternate interfaces:
```

```
 use Algorithm::Diff qw(
    LCS LCS_length LCSidx
    diff sdiff compact_diff
    traverse_sequences traverse_balanced );

@lcs    = LCS( \@seq1, \@seq2 );
$lcsref = LCS( \@seq1, \@seq2 );
$count  = LCS_length( \@seq1, \@seq2 );

( $seq1idxref, $seq2idxref ) = LCSidx( \@seq1, \@seq2 );


# Complicated interfaces:

@diffs  = diff( \@seq1, \@seq2 );

@sdiffs = sdiff( \@seq1, \@seq2 );

@cdiffs = compact_diff( \@seq1, \@seq2 );

traverse_sequences(
    \@seq1,
    \@seq2,
    {   MATCH     => \&callback1,
        DISCARD_A => \&callback2,
        DISCARD_B => \&callback3,
    },
    \&key_generator,
    @extra_args,
);

traverse_balanced(
    \@seq1,
    \@seq2,
    {   MATCH     => \&callback1,
        DISCARD_A => \&callback2,
        DISCARD_B => \&callback3,
        CHANGE    => \&callback4,
    },
    \&key_generator,
    @extra_args,
);


=head1 INTRODUCTION

(by
```

Mark-Jason Dominus)

I once read an article written by the authors of C<diff>; they said that they worked very hard on the algorithm until they found the right one.

I think what they ended up using (and I hope someone will correct me, because I am not very confident about this) was the `longest common subsequence' method. In the LCS problem, you have two sequences of items:

```
a b c d f g h j q z

a b c d e f g i j k r x y z
```

and you want to find the longest sequence of items that is present in both original sequences in the same order. That is, you want to find a new sequence I<S> which can be obtained from the first sequence by deleting some items, and from the second sequence by deleting other items. You also want I<S> to be as long as possible. In this case I<S> is

```
a b c d f g j z
```

From there it's only a small step to get diff-like output:

```
e   h i   k   q r x y
+   - +   +   - + + +
```

This module solves the LCS problem. It also includes a canned function to generate C<diff>-like output.

It might seem from the example above that the LCS of two sequences is always pretty obvious, but that's not always the case, especially when the two sequences have many repeated elements. For example, consider

```
a x b y c z p d q
a b c a x b y c z
```

A naive approach might start by matching up the C<a> and C<b> that appear at the beginning of each sequence, like this:

```
a x b y c       z p d q
a   b   c a b y c z
```

This finds the common subsequence C<a b c z>. But actually, the LCS is C<a x b y c z>:

```
      a x b y c z p d q
  a b c a x b y c z
```

or

```
  a      x b y c z p d q
  a b c a x b y c z
```

=head1 USAGE

(See also the README file and several example
scripts include with this module.)

This module now provides an object-oriented interface that uses less
memory and is easier to use than most of the previous procedural
interfaces. It also still provides several exportable functions. We'll
deal with these in ascending
 order of difficulty: C<LCS>,
C<LCS_length>, C<LCSidx>, OO interface, C<prepare>, C<diff>, C<sdiff>,
C<traverse_sequences>, and C<traverse_balanced>.

=head2 C<LCS>

Given references to two lists of items, LCS returns an array containing
their longest common subsequence. In scalar context, it returns a
reference to such a list.

```
  @lcs    = LCS( \@seq1, \@seq2 );
  $lcsref = LCS( \@seq1, \@seq2 );
```

C<LCS> may be passed an optional third parameter; this is a CODE
reference to a key generation function. See L</KEY GENERATION
FUNCTIONS>.

```
  @lcs    = LCS( \@seq1, \@seq2, \&keyGen, @args );
  $lcsref = LCS( \@seq1, \@seq2, \&keyGen, @args );
```

Additional parameters, if any, will be passed to the key generation
routine.

=head2 C<LCS_length>

This is just like C<LCS> except it only returns the length of the
longest common subsequence. This provides a performance gain of about
9% compared to C<LCS>.

=head2 C<LCSidx>

Like C<LCS> except it returns references to two arrays. The
first array
contains the indices into @seq1 where the LCS items are located. The
second array contains the indices into @seq2 where the LCS items are located.

Therefore, the following three lists will contain the same values:

```
my( $idx1, $idx2 ) = LCSidx( \@seq1, \@seq2 );
my @list1 = @seq1[ @$idx1 ];
my @list2 = @seq2[ @$idx2 ];
my @list3 = LCS( \@seq1, \@seq2 );
```

=head2 C<new>

```
$diff = Algorithm::Diff->new( \@seq1, \@seq2 );
$diff = Algorithm::Diff->new( \@seq1, \@seq2, \%opts );
```

C<new> computes the smallest set of additions and deletions necessary
to turn the first sequence into the second and compactly records them
in the object.

You use the object to iterate over I<hunks>, where each hunk represents
a contiguous section of items which should be added, deleted, replaced,
or left unchanged.

The following summary of all of the methods looks a lot like Perl code
but some of the symbols have different meanings:

```
[ ]     Encloses optional arguments

:       Is followed by the default value for an optional argument
|       Separates alternate return results
```

Method summary:

```
$obj       = Algorithm::Diff->new( \@seq1, \@seq2, [ \%opts ] );
$pos       = $obj->Next(  [ $count : 1 ] );
$revPos    = $obj->Prev(  [ $count : 1 ] );
$obj       = $obj->Reset( [ $pos : 0 ] );
$copy      = $obj->Copy(  [ $pos, [ $newBase ] ] );
$oldBase   = $obj->Base(  [ $newBase ] );
```

Note that all of the following methods C<die> if used on an object that
is "reset" (not currently pointing at any hunk).

```
$bits      = $obj->Diff(  );
@items|$cnt = $obj->Same(  );
```

```
   @items|$cnt = $obj->Items( $seqNum );
   @idxs |$cnt = $obj->Range( $seqNum, [ $base ] );
   $minIdx     = $obj->Min(   $seqNum, [ $base ] );
   $maxIdx     = $obj->Max(   $seqNum, [ $base ] );
   @values     = $obj->Get(   @names );
```

Passing in C<undef> for an optional argument is always treated the same as if no argument were passed in.

=over 4

=item
C<Next>

```
   $pos = $diff->Next();    # Move forward 1 hunk
   $pos = $diff->Next( 2 ); # Move forward 2 hunks
   $pos = $diff->Next(-5);  # Move backward 5 hunks
```

C<Next> moves the object to point at the next hunk. The object starts out "reset", which means it isn't pointing at any hunk. If the object is reset, then C<Next()> moves to the first hunk.

C<Next> returns a true value iff the move didn't go past the last hunk. So C<Next(0)> will return true iff the object is not reset.

Actually, C<Next> returns the object's new position, which is a number between 1 and the number of hunks (inclusive), or returns a false value.

=item C<Prev>

C<Prev($N)> is almost identical to C<Next(-$N)>; it moves to the $Nth previous hunk. On a 'reset' object, C<Prev()> [and C<Next(-1)>] move to the last hunk.

The position returned by C<Prev> is relative to the I<end> of the hunks; -1 for the last hunk, -2 for the second-to-last, etc.

=item C<Reset>

```
   $diff->Reset();     # Reset the object's
 position
   $diff->Reset($pos); # Move to the specified hunk
   $diff->Reset(1);    # Move to the first hunk
   $diff->Reset(-1);   # Move to the last hunk
```

C<Reset> returns the object, so, for example, you could use C<< $diff->Reset()->Next(-1) >> to get the number of hunks.

=item C<Copy>

```
$copy = $diff->Copy( $newPos, $newBase );
```

C<Copy> returns a copy of the object. The copy and the original object share most of their data, so making copies takes very little memory. The copy maintains its own position (separate from the original), which is the main purpose of copies. It also maintains its own base.

By default, the copy's position starts out the same as the original object's position. But C<Copy> takes an optional first argument to set the new position, so the following three snippets are equivalent:

```
$copy = $diff->Copy($pos);

$copy = $diff->Copy();
$copy->Reset($pos);

$copy = $diff->Copy()->Reset($pos);
```

C<Copy> takes an optional second argument
to set the base for
the copy. If you wish to change the base of the copy but leave the position the same as in the original, here are two equivalent ways:

```
$copy = $diff->Copy();
$copy->Base( 0 );

$copy = $diff->Copy(undef,0);
```

Here are two equivalent way to get a "reset" copy:

```
$copy = $diff->Copy(0);

$copy = $diff->Copy()->Reset();
```

=item C<Diff>

```
$bits = $obj->Diff();
```

C<Diff> returns a true value iff the current hunk contains items that are different between the two sequences. It actually returns one of the follow 4 values:

=over 4

=item Z<>3

C<3==(1|2)>. This hunk contains items from @seq1 and the items
from @seq2 that should replace them. Both sequence 1 and 2
contain changed items so both the 1 and 2 bits are set.

=item Z<>2

This hunk only contains items from @seq2 that should be inserted (not
items from @seq1). Only sequence 2 contains changed items so only the 2
bit is set.

=item Z<>1

This hunk only contains items from @seq1 that should
 be deleted (not
items from @seq2). Only sequence 1 contains changed items so only the 1
bit is set.

=item Z<>0

This means that the items in this hunk are the same in both sequences.
Neither sequence 1 nor 2 contain changed items so neither the 1 nor the
2 bits are set.

=back

=item C<Same>

C<Same> returns a true value iff the current hunk contains items that
are the same in both sequences. It actually returns the list of items
if they are the same or an empty list if they aren't. In a scalar
context, it returns the size of the list.

=item C<Items>

```
$count = $diff->Items(2);
@items = $diff->Items($seqNum);
```

C<Items> returns the (number of) items from the specified sequence that
are part of the current hunk.

If the current hunk contains only insertions, then
C<< $diff->Items(1) >> will return an empty list (0 in a scalar context).
If the current hunk contains only deletions, then C<< $diff->Items(2) >>
will return an empty list (0 in a scalar context).

If the hunk contains

replacements, then both C<< $diff->Items(1) >> and
C<< $diff->Items(2) >> will return different, non-empty lists.

Otherwise, the hunk contains identical items and all of the following
will return the same lists:

```
@items = $diff->Items(1);
@items = $diff->Items(2);
@items = $diff->Same();
```

=item C<Range>

```
$count = $diff->Range( $seqNum );
@indices = $diff->Range( $seqNum );
@indices = $diff->Range( $seqNum, $base );
```

C<Range> is like C<Items> except that it returns a list of I<indices> to
the items rather than the items themselves. By default, the index of
the first item (in each sequence) is 0 but this can be changed by
calling the C<Base> method. So, by default, the following two snippets
return the same lists:

```
@list = $diff->Items(2);
@list = @seq2[ $diff->Range(2) ];
```

You can also specify the base to use as the second argument. So the
following two snippets I<always> return the same lists:

```
@list = $diff->Items(1);
@list = @seq1[ $diff->Range(1,0)
];
```

=item C<Base>

```
$curBase = $diff->Base();
$oldBase = $diff->Base($newBase);
```

C<Base> sets and/or returns the current base (usually 0 or 1) that is
used when you request range information. The base defaults to 0 so
that range information is returned as array indices. You can set the
base to 1 if you want to report traditional line numbers instead.

=item C<Min>

```
$min1 = $diff->Min(1);
$min = $diff->Min( $seqNum, $base );
```

C<Min> returns the first value that C<Range> would return (given the

same arguments) or returns C<undef> if C<Range> would return an empty list.

=item C<Max>

C<Max> returns the last value that C<Range> would return or C<undef>.

=item C<Get>

```
( $n, $x, $r ) = $diff->Get(qw( min1 max1 range1 ));
@values = $diff->Get(qw( 0min2 1max2 range2 same base ));
```

C<Get> returns one or more scalar values. You pass in a list of the names of the values you want returned. Each name must match one of the following regexes:

```
/^(-?\d+)?(min|max)[12]$/i
 /^(range[12]|same|diff|base)$/i
```

The 1 or 2 after a name says which sequence you want the information for (and where allowed, it is required). The optional number before "min" or "max" is the base to use. So the following equalities hold:

```
$diff->Get('min1') == $diff->Min(1)
$diff->Get('0min2') == $diff->Min(2,0)
```

Using C<Get> in a scalar context when you've passed in more than one name is a fatal error (C<die> is called).

=back

=head2 C<prepare>

Given a reference to a list of items, C<prepare> returns a reference to a hash which can be used when comparing this sequence to other sequences with C<LCS> or C<LCS_length>.

```
$prep = prepare( \@seq1 );
for $i ( 0 .. 10_000 )
{
   @lcs = LCS( $prep, $seq[$i] );
   # do something useful with @lcs
}
```

C<prepare> may be passed an optional third parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

```
$prep = prepare( \@seq1, \&keyGen );

for $i ( 0 .. 10_000 )
{
   @lcs = LCS( $seq[$i], $prep, \&keyGen );
   # do something useful with @lcs
}
```

Using C<prepare> provides a performance gain of about 50% when calling LCS many times compared with not preparing.

=head2 C<diff>

```
@diffs     = diff( \@seq1, \@seq2 );
$diffs_ref = diff( \@seq1, \@seq2 );
```

C<diff> computes the smallest set of additions and deletions necessary to turn the first sequence into the second, and returns a description of these changes. The description is a list of I<hunks>; each hunk represents a contiguous section of items which should be added, deleted, or replaced. (Hunks containing unchanged items are not included.)

The return value of C<diff> is a list of hunks, or, in scalar context, a reference to such a list. If there are no differences, the list will be empty.

Here is an example. Calling C<diff> for the following two sequences:

```
a b c e h j l m n p
b c d e f j k l m r s t
```

would produce the following list:

```
(
 [ [ '-', 0, 'a' ] ],

 [ [ '+', 2, 'd' ] ],

 [ [ '-', 4, 'h' ],
   [ '+', 4, 'f' ] ],

 [ [ '+', 6, 'k' ] ],

 [ [ '-',  8, 'n' ],
   [ '-',  9, 'p' ],
   [ '+',  9, 'r' ],
   [ '+', 10, 's' ],
```

```
    [ '+', 11, 't' ] ],
  )
```

There are five hunks here. The first hunk says that the C<a> at position 0 of the first sequence should be deleted (C<->). The second hunk says that the C<d> at position 2 of the second sequence should be inserted (C<+>). The third hunk says that the C<h> at position 4 of the first sequence should be removed and replaced with the C<f> from position 4 of the second sequence. And so on.

C<diff> may be passed an optional third parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

Additional parameters, if any, will be passed to the key generation routine.

=head2 C<sdiff>

```
  @sdiffs     = sdiff( \@seq1, \@seq2 );
  $sdiffs_ref = sdiff( \@seq1, \@seq2
 );
```

C<sdiff> computes all necessary components to show two sequences and their minimized differences side by side, just like the Unix-utility I<sdiff> does:

```
  same            same
  before     |    after
  old        <    -
  -          >    new
```

It returns a list of array refs, each pointing to an array of display instructions. In scalar context it returns a reference to such a list. If there are no differences, the list will have one entry per item, each indicating that the item was unchanged.

Display instructions consist of three elements: A modifier indicator (C<+>: Element added, C<->: Element removed, C<u>: Element unmodified, C<c>: Element changed) and the value of the old and new elements, to be displayed side-by-side.

An C<sdiff> of the following two sequences:

```
  a b c e h j l m n p
  b c d e f j k l m r s t
```

results in

```
  ( [ '-', 'a', ''  ],
    [ 'u', 'b', 'b' ],
    [ 'u', 'c', 'c' ],
    [ '+', '',  'd' ],
    [ 'u', 'e', 'e' ],
    [ 'c',
 'h', 'f' ],
    [ 'u', 'j', 'j' ],
    [ '+', '',  'k' ],
    [ 'u', 'l', 'l' ],
    [ 'u', 'm', 'm' ],
    [ 'c', 'n', 'r' ],
    [ 'c', 'p', 's' ],
    [ '+', '',  't' ],
  )
```

C<sdiff> may be passed an optional third parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

Additional parameters, if any, will be passed to the key generation routine.

=head2 C<compact_diff>

C<compact_diff> is much like C<sdiff> except it returns a much more compact description consisting of just one flat list of indices. An example helps explain the format:

```
  my @a = qw( a b c   e  h j   l m n p      );
  my @b = qw(   b c d e f  j k l m    r s t );
  @cdiff = compact_diff( \@a, \@b );
  # Returns:
  #   @a      @b       @a       @b
  #  start   start   values   values
  (    0,      0,   #       =
       0,      0,   #    a  !
       1,      0,   #  b c  =  b c
       3,      2,   #       !  d
       3,      3,   #
  e  =  e
       4,      4,   #    f  !  h
       5,      5,   #    j  =  j
       6,      6,   #       !  k
       6,      7,   #  l m  =  l m
       8,      9,   #  n p  !  r s t
      10,     12,   #
```

```
);
```

The 0th, 2nd, 4th, etc. entries are all indices into @seq1 (@a in the above example) indicating where a hunk begins. The 1st, 3rd, 5th, etc. entries are all indices into @seq2 (@b in the above example) indicating where the same hunk begins.

So each pair of indices (except the last pair) describes where a hunk begins (in each sequence). Since each hunk must end at the item just before the item that starts the next hunk, the next pair of indices can be used to determine where the hunk ends.

So, the first 4 entries (0..3) describe the first hunk. Entries 0 and 1 describe where the first hunk begins (and so are always both 0). Entries 2 and 3 describe where the next hunk begins, so subtracting 1 from each tells us where the first hunk ends. That is, the first hunk contains
items C<$diff[0]> through C<$diff[2] - 1> of the first sequence and contains items C<$diff[1]> through C<$diff[3] - 1> of the second sequence.

In other words, the first hunk consists of the following two lists of items:

```
        #  1st pair     2nd pair
        # of indices   of indices
@list1 = @a[ $cdiff[0] .. $cdiff[2]-1 ];
@list2 = @b[ $cdiff[1] .. $cdiff[3]-1 ];
        # Hunk start   Hunk end
```

Note that the hunks will always alternate between those that are part of the LCS (those that contain unchanged items) and those that contain changes. This means that all we need to be told is whether the first hunk is a 'same' or 'diff' hunk and we can determine which of the other hunks contain 'same' items or 'diff' items.

By convention, we always make the first hunk contain unchanged items. So the 1st, 3rd, 5th, etc. hunks (all odd-numbered hunks if you start counting from 1) all contain unchanged items. And the 2nd, 4th, 6th, etc. hunks (all even-numbered
hunks if you start counting from 1) all
contain changed items.

Since @a and @b don't begin with the same value, the first hunk in our example is empty (otherwise we'd violate the above convention). Note that the first 4 index values in our example are all zero. Plug these values into our previous code block and we get:

```
@hunk1a = @a[ 0 .. 0-1 ];
```

```
  @hunk1b = @b[ 0 .. 0-1 ];
```

And C<0..-1> returns the empty list.

Move down one pair of indices (2..5) and we get the offset ranges for
the second hunk, which contains changed items.

Since C<@diff[2..5]> contains (0,0,1,0) in our example, the second hunk
consists of these two lists of items:

```
      @hunk2a = @a[ $cdiff[2] .. $cdiff[4]-1 ];
      @hunk2b = @b[ $cdiff[3] .. $cdiff[5]-1 ];
  # or
      @hunk2a = @a[ 0 .. 1-1 ];
      @hunk2b = @b[ 0 .. 0-1 ];
  # or
      @hunk2a = @a[ 0 .. 0 ];
      @hunk2b = @b[ 0 .. -1 ];
  # or
      @hunk2a = ( 'a' );
      @hunk2b = ( );
```

That is, we would delete item
 0 ('a') from @a.

Since C<@diff[4..7]> contains (1,0,3,2) in our example, the third hunk
consists of these two lists of items:

```
      @hunk3a = @a[ $cdiff[4] .. $cdiff[6]-1 ];
      @hunk3a = @b[ $cdiff[5] .. $cdiff[7]-1 ];
  # or
      @hunk3a = @a[ 1 .. 3-1 ];
      @hunk3a = @b[ 0 .. 2-1 ];
  # or
      @hunk3a = @a[ 1 .. 2 ];
      @hunk3a = @b[ 0 .. 1 ];
  # or
      @hunk3a = qw( b c );
      @hunk3a = qw( b c );
```

Note that this third hunk contains unchanged items as our convention demands.

You can continue this process until you reach the last two indices,
which will always be the number of items in each sequence. This is
required so that subtracting one from each will give you the indices to
the last items in each sequence.

=head2 C<traverse_sequences>

C<traverse_sequences> used to be the most general facility provided by this module (the new OO interface is more powerful and much easier to use).

Imagine that there are two arrows. Arrow A points to an element of sequence A, and arrow B points to an element of the sequence B. Initially, the arrows point to the first elements of the respective sequences. C<traverse_sequences> will advance the arrows through the sequences one element at a time, calling an appropriate user-specified callback function before each advance. It will advance the arrows in such a way that if there are equal elements C<$A[$i]> and C<$B[$j]> which are equal and which are part of the LCS, there will be some moment during the execution of C<traverse_sequences> when arrow A is pointing to C<$A[$i]> and arrow B is pointing to C<$B[$j]>. When this happens, C<traverse_sequences> will call the C<MATCH> callback function and then it will advance both arrows.

Otherwise, one of the arrows is pointing to an element of its sequence that is not part of the LCS. C<traverse_sequences> will advance that arrow and will call the C<DISCARD_A> or the C<DISCARD_B> callback, depending on which arrow it advanced. If both arrows point to elements that are not part of the LCS, then C<traverse_sequences> will advance one of them and call the appropriate callback, but it is not specified which it will call.

The arguments to C<traverse_sequences> are the two sequences to traverse, and a hash which specifies the callback functions, like this:

```
traverse_sequences(
    \@seq1, \@seq2,
    {   MATCH => $callback_1,
        DISCARD_A => $callback_2,
        DISCARD_B => $callback_3,
    }
);
```

Callbacks for MATCH, DISCARD_A, and DISCARD_B are invoked with at least the indices of the two arrows as their arguments. They are not expected to return any values. If a callback is omitted from the table, it is not called.

Callbacks for A_FINISHED and B_FINISHED are invoked with at least the corresponding index in A or B.

If arrow A reaches the end of its sequence, before arrow B does,

C<traverse_sequences> will call the C<A_FINISHED> callback when it
advances arrow B, if there is such a function;
 if not it will call
C<DISCARD_B> instead. Similarly if arrow B finishes first.
C<traverse_sequences> returns when both arrows are at the ends of their
respective sequences. It returns true on success and false on failure.
At present there is no way to fail.

C<traverse_sequences> may be passed an optional fourth parameter; this
is a CODE reference to a key generation function. See L</KEY GENERATION
FUNCTIONS>.

Additional parameters, if any, will be passed to the key generation function.

If you want to pass additional parameters to your callbacks, but don't
need a custom key generation function, you can get the default by
passing undef:

```
  traverse_sequences(
     \@seq1, \@seq2,
     {   MATCH => $callback_1,
         DISCARD_A => $callback_2,
         DISCARD_B => $callback_3,
     },
     undef,     # default key-gen
     $myArgument1,
     $myArgument2,
     $myArgument3,
  );
```

C<traverse_sequences> does not have a useful return value; you
 are
expected to plug in the appropriate behavior with the callback
functions.

=head2 C<traverse_balanced>

C<traverse_balanced> is an alternative to C<traverse_sequences>. It
uses a different algorithm to iterate through the entries in the
computed LCS. Instead of sticking to one side and showing element changes
as insertions and deletions only, it will jump back and forth between
the two sequences and report I<changes> occurring as deletions on one
side followed immediately by an insertion on the other side.

In addition to the C<DISCARD_A>, C<DISCARD_B>, and C<MATCH> callbacks
supported by C<traverse_sequences>, C<traverse_balanced> supports
a C<CHANGE> callback indicating that one element got C<replaced> by another:

```
  traverse_balanced(
     \@seq1, \@seq2,
     {   MATCH => $callback_1,
         DISCARD_A => $callback_2,
         DISCARD_B => $callback_3,
         CHANGE    => $callback_4,
     }
  );
```

If no C<CHANGE> callback is specified, C<traverse_balanced>
will
 map C<CHANGE> events to C<DISCARD_A> and C<DISCARD_B> actions,
therefore resulting in a similar behaviour as C<traverse_sequences>
with different order of events.

C<traverse_balanced> might be a bit slower than C<traverse_sequences>,
noticeable only while processing huge amounts of data.

The C<sdiff> function of this module is implemented as call to
C<traverse_balanced>.

C<traverse_balanced> does not have a useful return value; you are expected to
plug in the appropriate behavior with the callback functions.

=head1 KEY GENERATION FUNCTIONS

Most of the functions accept an optional extra parameter. This is a
CODE reference to a key generating (hashing) function that should return
a string that uniquely identifies a given element. It should be the
case that if two elements are to be considered equal, their keys should
be the same (and the other way around). If no key generation function
is provided, the key will be the element as a string.

By default, comparisons will
 use "eq" and elements will be turned into keys
using the default stringizing operator """".

Where this is important is when you're comparing something other than
strings. If it is the case that you have multiple different objects
that should be considered to be equal, you should supply a key
generation function. Otherwise, you have to make sure that your arrays
contain unique references.

For instance, consider this example:

```
  package Person;

  sub new
```

```
  {
     my $package = shift;
     return bless { name => '', ssn => '', @_ }, $package;
  }

  sub clone
  {
     my $old = shift;
     my $new = bless { %$old }, ref($old);
  }

  sub hash
  {
     return shift()->{'ssn'};
  }

  my $person1 = Person->new( name => 'Joe', ssn => '123-45-6789' );
  my $person2 = Person->new( name => 'Mary', ssn => '123-47-0000' );
  my $person3 = Person->new( name => 'Pete', ssn => '999-45-2222' );
  my $person4 = Person->new( name => 'Peggy', ssn => '123-45-9999'
);
  my $person5 = Person->new( name => 'Frank', ssn => '000-45-9999' );
```

If you did this:

```
  my $array1 = [ $person1, $person2, $person4 ];
  my $array2 = [ $person1, $person3, $person4, $person5 ];
  Algorithm::Diff::diff( $array1, $array2 );
```

everything would work out OK (each of the objects would be converted into a string like "Person=HASH(0x82425b0)" for comparison).

But if you did this:

```
  my $array1 = [ $person1, $person2, $person4 ];
  my $array2 = [ $person1, $person3, $person4->clone(), $person5 ];
  Algorithm::Diff::diff( $array1, $array2 );
```

$person4 and $person4->clone() (which have the same name and SSN) would be seen as different objects. If you wanted them to be considered equivalent, you would have to pass in a key generation function:

```
  my $array1 = [ $person1, $person2, $person4 ];
  my $array2 = [ $person1, $person3, $person4->clone(), $person5 ];
  Algorithm::Diff::diff( $array1, $array2, \&Person::hash );
```

This would use the 'ssn' field

in each Person as a comparison key, and
so would consider $person4 and $person4->clone() as equal.

You may also pass additional parameters to the key generation function
if you wish.

=head1 ERROR CHECKING

If you pass these routines a non-reference and they expect a reference,
they will die with a message.

=head1 AUTHOR

This version released by Tye McQueen (http://perlmonks.org/?node=tye).

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=head1 MAILING LIST

Mark-Jason still maintains a mailing list. To join a low-volume mailing
list for announcements related to diff and Algorithm::Diff, send an
empty mail message to mjd-perl-diff-request@plover.com.

=head1 CREDITS

Versions through 0.59 (and much of this documentation) were written by:

Mark-Jason Dominus

This version borrows some documentation and routine names from
Mark-Jason's,
but Diff.pm's code was completely replaced.

This code was adapted from the Smalltalk code of Mario Wolczko
<mario@wolczko.com>, which is available at
ftp://st.cs.uiuc.edu/pub/Smalltalk/MANCHESTER/manchester/4.0/diff.st

C<sdiff> and C<traverse_balanced> were written by Mike Schilli
<m@perlmeister.com>.

The algorithm is that described in
I<A Fast Algorithm for Computing Longest Common Subsequences>,

CACM, vol.20, no.5, pp.350-353, May 1977, with a few
minor improvements to improve the speed.

Much work was done by Ned Konz (perl@bike-nomad.com).

The OO interface and some other changes are by Tye McQueen.

=cut

Found in path(s):
* /opt/cola/permits/1678743141_1684317966.90102/0/libalgorithm-diff-perl-1-201-orig-1-tar-gz/Algorithm-Diff-1.201/lib/Algorithm/Diff.pm
No license file was found, but licenses were detected in source scan.

---
abstract: unknown
author:
 - unknown
build_requires:
 ExtUtils::MakeMaker: '0'
configure_requires:
 ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.46, CPAN::Meta::Converter version 2.150010'
license: unknown
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: '1.4'
name: Algorithm-Diff
no_index:
 directory:
   - t
   - inc
version: '1.201'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
* /opt/cola/permits/1678743141_1684317966.90102/0/libalgorithm-diff-perl-1-201-orig-1-tar-gz/Algorithm-Diff-1.201/META.yml

1.2518 xorg-sgml-doctools 1.11-1.1

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1.2519 klog 1.0.0

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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

1.2542 common 0.26.0

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1.2552 googlecloudgo 0.107.0

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 "google.golang.org/api/iterator"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
```

```
 // This snippet has been automatically generated and should be regarded as a code template only.
 //
 It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
```

```
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _
 = resp
}
```

```
func ExampleLicensesClient_Insert() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#ListLicensesRequest.
 }
 it := c.List(ctx, req)
```

```
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp
 }
}

func ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require
 specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
```

```
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseRequest{
 // TODO: Fill request struct fields.
 // See
https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseRequest.
}
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
```

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```
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io/ioutil"
 "math"
 "net/http"
 "net/url"

 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
```

```
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var
 newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete:            []gax.CallOption{},
  Get:               []gax.CallOption{},
  GetIamPolicy:      []gax.CallOption{},
  Insert:            []gax.CallOption{},
  List:              []gax.CallOption{},
  SetIamPolicy:      []gax.CallOption{},
  TestIamPermissions: []gax.CallOption{},
 }
}

//
 internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
```

```
(*computepb.TestPermissionsResponse, error)
}

//
 LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the
 API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}
```

```
// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy
 or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use
 this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating
 Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}
```

```
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption)
 (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC
```

```
 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", versionGo()}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient)
 Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
```

```
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type",
 "application/json"))
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }
```

```
 return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 op := &Operation{
  &globalOperationsHandle{
   c:
       c.operationClient,
   proto:   resp,
   project: req.GetProject(),
  },
 }
 return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
```

```
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy
 or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))
```

```
 headers := buildHeaders(ctx, c.xGoogMetadata,
 md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil
 {
  return nil, e
 }
 return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
```

```
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v", "project",
url.QueryEscape(req.GetProject())))

 headers
 := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()
```

```
 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return
maybeUnknownEnum(err)
 }

 return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 op := &Operation{
  &globalOperationsHandle{
   c:       c.operationClient,
   proto:   resp,
   project: req.GetProject(),
  },
 }
 return op, nil
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial:
 true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
```

```
 } else if pageSize != 0 {
  req.MaxResults = proto.Uint32(uint32(pageSize))
 }
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, "", err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.Filter != nil {
  params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
 }
 if req != nil && req.MaxResults != nil {
  params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
 }
 if req != nil && req.OrderBy != nil {
  params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
 }
 if req != nil && req.PageToken != nil {
  params.Add("pageToken",
fmt.Sprintf("%v", req.GetPageToken()))
 }
 if req != nil && req.ReturnPartialSuccess != nil {
  params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
```

```
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil
 {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m
 := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
```

```
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings)
 error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
```

```
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest,
 opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true,
 DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
```

```
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
 items    []*computepb.License
 pageInfo *iterator.PageInfo
 nextFunc
 func() error

 // Response is the raw response for the current page.
 // It must be cast to the RPC response type.
 // Calling Next() or InternalFetch() updates this value.
 Response interface{}

 // InternalFetch is for use by the Google Cloud Libraries only.
 // It is not part of the stable interface of this package.
 //
 // InternalFetch returns results from a single call to the underlying RPC.
 // The number of results is no greater than pageSize.
 // If there are no more results, nextPageToken is empty and err is nil.
```

```
 InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
 return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it
 *LicenseIterator) Next() (*computepb.License, error) {
 var item *computepb.License
 if err := it.nextFunc(); err != nil {
  return item, err
 }
 item = it.items[0]
 it.items = it.items[1:]
 return item, nil
}

func (it *LicenseIterator) bufLen() int {
 return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
 b := it.items
 it.items = nil
 return b
}
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package compute
```

```
import (
 "bytes"
 "context"
 "fmt"
 "io/ioutil"
 "net/http"
 "net/url"

 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
)

var
 newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
 Get              []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
 return &LicenseCodesCallOptions{
  Get:              []gax.CallOption{},
  TestIamPermissions: []gax.CallOption{},
 }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
 (*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
```

```
//
// The LicenseCodes API.
type LicenseCodesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseCodesClient

 // The call options for this service.
 CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx
 context.Context, req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
```

```
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licenseCodesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD

 // Points back to the CallOptions field of the containing LicenseCodesClient
 CallOptions **LicenseCodesCallOptions
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
 clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx,
 clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicenseCodesRESTCallOptions()
 c := &licenseCodesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}
```

```
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go",
 versionGo()}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption)
 (*computepb.LicenseCode, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.LicenseCode{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
```

```
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(),
nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq,
 err := m.Marshal(body)
 if err != nil {
```

```
 return nil, err
}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error
{
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
```

```
  return maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}
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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications
 to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()
```

```
 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO:
 Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseCodeRequ
```

```
est.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

1.2553 google-golang-org-genproto 0.0.0-20230110181048-76db0878b65f

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1.2554 spf13-cast 1.5.0

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1.2555 spf13-jwalterweatherman 1.1.0

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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

1.2558 klog 2.80.1

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1.2559 x-time 0.3.0

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1.2560 k8s-io-client-go 0.26.1

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1.2561 k8s-io-apimachinery 0.26.1

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1.2562 k8s-io-kube-openapi 0.0.0-20221012153701-172d655c2280

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}
# This source code was written by the Go contributors.
# The master list of contributors is in the main Go distribution,
# visible at https://tip.golang.org/CONTRIBUTORS.
```

```
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package spec

import "testing"

func TestIntegrationLicense(t *testing.T) {
 license := License{Name: "the name", URL: "the url"}
 const licenseJSON = `{"name":"the name","url":"the url"}`
 const licenseYAML = "name: the name\nurl: the url\n"

 assertSerializeJSON(t, license, licenseJSON)
 assertParsesJSON(t, licenseJSON, license)
}
```

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1.2565 spf13-cast 1.4.1

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1.2566 githubcommattngoisatty 0.0.16

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1.2567 github.com/go-asn1-ber/asn1-ber 1.5.4

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1.2568 github.com/go-ldap/ldap/v3 3.4.4

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1.2570 github.com/coreos/go-systemd/v22 22.3.2

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1.2571 go-uber-org-zap 1.24.0

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1.2572 google-golang-org-api 0.103.0

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1.2573 pretty 0.3.1

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1.2574 errors 1.4.2

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1.2575 githubcomgoopenapiswag 0.22.3

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1.2578 go-uber-org-zap 1.19.1

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}
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package spec

import "testing"

func TestIntegrationLicense(t *testing.T) {
 license := License{Name: "the name", URL: "the url"}
 const licenseJSON = `{"name":"the name","url":"the url"}`
 const licenseYAML = "name: the name\nurl: the url\n"

 assertSerializeJSON(t, license, licenseJSON)
 assertParsesJSON(t, licenseJSON, license)
}
```

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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

1.2584 go-uber-org-atomic 1.10.0

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1.2586 common 0.42.0

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1.2595 githubcommagiconairproperties 1.8.5

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1.2596 spf13-viper 1.10.1

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localtime.go, localtime_test.go:

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Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.
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1.2599 kubernetes-component-base 0.27.1

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1.2600 kubernetes-apiserver 0.0.0

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1.2606 musl-obstack 1.2.3-r2

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1.2607 coreutils 8.30-15.el8

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                    section #3.6.5 of OSGi R4 spec.\
                    Why is this required?\
                    See https://glassfish.dev.java.net/issues/show_bug.cgi?id=5385\
                    By doing this, we allow user have any version of apache-commons lib\
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in their application class loader hierarchy. They don't even have to\
set delegation=false in sun-web.xml! This is the true advantage of\
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Sahoo.\
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1.2616 pcre 10.42-1

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.. currentmodule:: flask

Blog Blueprint
==========

You'll use the same techniques you learned about when writing the authentication blueprint to write the blog blueprint. The blog should list all posts, allow logged in users to create posts, and allow the author of a post to edit or delete it.

As you implement each view, keep the development server running. As you save your changes, try going to the URL in your browser and testing them

out.

The Blueprint

Define the blueprint and register it in the application factory.

.. code-block:: python
  :caption: ``flaskr/blog.py``

```
from flask import (
    Blueprint, flash, g, redirect, render_template, request, url_for
)
from werkzeug.exceptions import abort

from flaskr.auth import login_required
from flaskr.db import get_db

bp = Blueprint('blog', __name__)
```

Import and register the blueprint from the factory using
:meth:`app.register_blueprint()
 <Flask.register_blueprint>`. Place the
new code at the end of the factory function before returning the app.

.. code-block:: python
  :caption: ``flaskr/__init__.py``

```
def create_app():
    app = ...
    # existing code omitted

    from . import blog
    app.register_blueprint(blog.bp)
    app.add_url_rule('/', endpoint='index')

    return app
```

Unlike the auth blueprint, the blog blueprint does not have a
``url_prefix``. So the ``index`` view will be at ``/``, the ``create``
view at ``/create``, and so on. The blog is the main feature of Flaskr,
so it makes sense that the blog index will be the main index.

However, the endpoint for the ``index`` view defined below will be
``blog.index``. Some of the authentication views referred to a plain
``index`` endpoint. :meth:`app.add_url_rule() <Flask.add_url_rule>`
associates the endpoint name ``'index'`` with the ``/`` url so that

``url_for('index')`` or ``url_for('blog.index')`` will
 both work,
generating the same ``/`` URL either way.

In another application you might give the blog blueprint a
``url_prefix`` and define a separate ``index`` view in the application
factory, similar to the ``hello`` view. Then the ``index`` and
``blog.index`` endpoints and URLs would be different.

Index

The index will show all of the posts, most recent first. A ``JOIN`` is
used so that the author information from the ``user`` table is
available in the result.

.. code-block:: python
  :caption: ``flaskr/blog.py``

```
  @bp.route('/')
  def index():
      db = get_db()
      posts = db.execute(
          'SELECT p.id, title, body, created, author_id, username'
          ' FROM post p JOIN user u ON p.author_id = u.id'
          ' ORDER BY created DESC'
      ).fetchall()
      return render_template('blog/index.html', posts=posts)
```

.. code-block:: html+jinja
  :caption: ``flaskr/templates/blog/index.html``

```
  {% extends 'base.html' %}

  {% block header
 %}
    <h1>{% block title %}Posts{% endblock %}</h1>
    {% if g.user %}
      <a class="action" href="{{ url_for('blog.create') }}">New</a>
    {% endif %}
  {% endblock %}

  {% block content %}
    {% for post in posts %}
      <article class="post">
        <header>
          <div>
```

```
          <h1>{{ post['title'] }}</h1>
          <div class="about">by {{ post['username'] }} on {{ post['created'].strftime('%Y-%m-%d') }}</div>
        </div>
        {% if g.user['id'] == post['author_id'] %}
          <a class="action" href="{{ url_for('blog.update', id=post['id']) }}">Edit</a>
        {% endif %}
      </header>
      <p class="body">{{ post['body'] }}</p>
    </article>
    {% if not loop.last %}
      <hr>
    {% endif %}
  {% endfor %}
{% endblock %}
```

When a user is logged in, the ``header`` block adds a link to the
``create`` view. When the user is the author of a post, they'll see an
"Edit" link to the
 ``update`` view for that post. ``loop.last`` is a
special variable available inside `Jinja for loops`_. It's used to
display a line after each post except the last one, to visually separate
them.

.. _Jinja for loops: https://jinja.palletsprojects.com/templates/#for

Create

The ``create`` view works the same as the auth ``register`` view. Either
the form is displayed, or the posted data is validated and the post is
added to the database or an error is shown.

The ``login_required`` decorator you wrote earlier is used on the blog
views. A user must be logged in to visit these views, otherwise they
will be redirected to the login page.

.. code-block:: python
  :caption: ``flaskr/blog.py``

```
@bp.route('/create', methods=('GET', 'POST'))
@login_required
def create():
    if request.method == 'POST':
        title = request.form['title']
        body = request.form['body']
        error = None
```

```
        if not title:
            error = 'Title
 is required.'

        if error is not None:
            flash(error)
        else:
            db = get_db()
            db.execute(
                'INSERT INTO post (title, body, author_id)'
                ' VALUES (?, ?, ?)',
                (title, body, g.user['id'])
            )
            db.commit()
            return redirect(url_for('blog.index'))

    return render_template('blog/create.html')
```

.. code-block:: html+jinja
:caption: ``flaskr/templates/blog/create.html``

```
{% extends 'base.html' %}

{% block header %}
  <h1>{% block title %}New Post{% endblock %}</h1>
{% endblock %}

{% block content %}
  <form method="post">
    <label for="title">Title</label>
    <input name="title" id="title" value="{{ request.form['title'] }}" required>
    <label for="body">Body</label>
    <textarea name="body" id="body">{{ request.form['body'] }}</textarea>
    <input type="submit" value="Save">
  </form>
{% endblock %}
```

Update

Both the ``update`` and ``delete`` views will need to fetch a ``post``
by ``id`` and check if the author matches the logged in user. To avoid
duplicating code, you can write a function to get the ``post`` and call
it from each view.

.. code-block:: python
:caption: ``flaskr/blog.py``

```
def get_post(id, check_author=True):
    post = get_db().execute(
        'SELECT p.id, title, body, created, author_id, username'
        ' FROM post p JOIN user u ON p.author_id = u.id'
        ' WHERE p.id = ?',
        (id,)
    ).fetchone()

    if post is None:
        abort(404, f"Post id {id} doesn't exist.")

    if check_author and post['author_id'] != g.user['id']:
        abort(403)

    return post
```

:func:`abort` will raise a special exception that returns an HTTP status code. It takes an optional message to show with the error, otherwise a default message is used. ``404`` means "Not Found", and ``403`` means "Forbidden". (``401`` means "Unauthorized", but you redirect to the login page instead of returning that status.)

The ``check_author`` argument is defined so that the function can be used to get a ``post`` without checking the author. This would be useful if you wrote a view to show an individual post on a page, where the user doesn't matter because they're not modifying the post.

.. code-block:: python
:caption: ``flaskr/blog.py``

```
@bp.route('/<int:id>/update', methods=('GET', 'POST'))
@login_required
def update(id):
    post = get_post(id)

    if request.method == 'POST':
        title = request.form['title']
        body = request.form['body']
        error = None

        if not title:
            error = 'Title is required.'

        if error is not None:
            flash(error)
        else:
```

```
            db = get_db()
            db.execute(
                'UPDATE post SET title = ?,
 body = ?'
                ' WHERE id = ?',
                (title, body, id)
            )
            db.commit()
            return redirect(url_for('blog.index'))

        return render_template('blog/update.html', post=post)
```

Unlike the views you've written so far, the ``update`` function takes
an argument, ``id``. That corresponds to the ``<int:id>`` in the route.
A real URL will look like ``/1/update``. Flask will capture the ``1``,
ensure it's an :class:`int`, and pass it as the ``id`` argument. If you
don't specify ``int:`` and instead do ``<id>``, it will be a string.
To generate a URL to the update page, :func:`url_for` needs to be passed
the ``id`` so it knows what to fill in:
``url_for('blog.update', id=post['id'])``. This is also in the
``index.html`` file above.

The ``create`` and ``update`` views look very similar. The main
difference is that the ``update`` view uses a ``post`` object and an
``UPDATE`` query instead of an ``INSERT``. With some clever
 refactoring,
you could use one view and template for both actions, but for the
tutorial it's clearer to keep them separate.

```
.. code-block:: html+jinja
   :caption: ``flaskr/templates/blog/update.html``

   {% extends 'base.html' %}

   {% block header %}
     <h1>{% block title %}Edit "{{ post['title'] }}"{% endblock %}</h1>
   {% endblock %}

   {% block content %}
     <form method="post">
       <label for="title">Title</label>
       <input name="title" id="title"
         value="{{ request.form['title'] or post['title'] }}" required>
       <label for="body">Body</label>
       <textarea name="body" id="body">{{ request.form['body'] or post['body'] }}</textarea>
       <input type="submit" value="Save">
     </form>
     <hr>
```

```
    <form action="{{ url_for('blog.delete', id=post['id']) }}" method="post">
      <input class="danger" type="submit" value="Delete" onclick="return confirm('Are you sure?');">
    </form>
  {% endblock %}
```

This template has two forms.
 The first posts the edited data to the
current page (``/<id>/update``). The other form contains only a button
and specifies an ``action`` attribute that posts to the delete view
instead. The button uses some JavaScript to show a confirmation dialog
before submitting.

The pattern ``{{ request.form['title'] or post['title'] }}`` is used to
choose what data appears in the form. When the form hasn't been
submitted, the original ``post`` data appears, but if invalid form data
was posted you want to display that so the user can fix the error, so
``request.form`` is used instead. :data:`request` is another variable
that's automatically available in templates.

Delete

The delete view doesn't have its own template, the delete button is part
of ``update.html`` and posts to the ``/<id>/delete`` URL. Since there
is no template, it will only handle the ``POST`` method and then redirect
to the ``index`` view.

.. code-block:: python
  :caption: ``flaskr/blog.py``

```
  @bp.route('/<int:id>/delete',
 methods=('POST',))
  @login_required
  def delete(id):
      get_post(id)
      db = get_db()
      db.execute('DELETE FROM post WHERE id = ?', (id,))
      db.commit()
      return redirect(url_for('blog.index'))
```

Congratulations, you've now finished writing your application! Take some
time to try out everything in the browser. However, there's still more
to do before the project is complete.

Continue to :doc:`install`.

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1.2620 rdma-cm 32.0-4.el8

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Upstream-Name: rdma-core
Upstream-Contact: Doug Ledford <dledford@redhat.com>,
Leon Romanovsky <Leon@kernel.org>
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1.2621 k8s-io-apimachinery 0.23.4

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1.2623 github.com/tklauser/numcpus 0.6.0

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1.2624 github.com/tklauser/go-sysconf 0.3.11

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1.2625 githubcommagiconairproperties 1.8.6

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1.2626 logutils 1.0.0

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1.2627 github.com/jinzhu/now 1.1.1

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1.2628 strip-ansi 7.1.0

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1.2629 go-uber-org-zap 1.17.0

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1.2630 go-autorest 0.9.18

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1.2631 gopkg-in-square-go-jose-v2 2.3.1

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1.2632 githubcomkrfs 0.1.0

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1.2633 spf13-cobra 1.1.3

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func initGpl2() {
 Licenses["gpl2"] = License{
  Name:           "GNU General Public License 2.0",
  PossibleMatches: []string{"gpl2", "gnu gpl2", "gplv2"},
  Header: `
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```
`,
 }
}
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package cmd

import (
 "fmt"
 "strings"
 "time"

 "github.com/spf13/cobra"
 "github.com/spf13/viper"
)

// Licenses contains all possible licenses a user can choose from.
var Licenses = make(map[string]License)

// License represents a software license agreement, containing the Name of
// the license, its possible matches (on the command
 line as given to cobra),
// the header to be used with each file on the file's creating, and the text
// of the license
type License struct {
 Name           string   // The type of license in use
 PossibleMatches []string // Similar names to guess
 Text           string   // License text data
 Header         string   // License header for source files
}

func init() {
 // Allows a user to not use a license.
 Licenses["none"] = License{"None", []string{"none", "false"}, "", ""}
```

```
 initApache2()
 initMit()
 initBsdClause3()
 initBsdClause2()
 initGpl2()
 initGpl3()
 initLgpl()
 initAgpl()
}

// getLicense returns license specified by user in flag or in config.
// If user didn't specify the license, it returns Apache License 2.0.
//
// TODO: Inspect project for existing license
func getLicense() License {
 // If explicitly flagged, use that.
 if userLicense != "" {
  return findLicense(userLicense)
 }

 // If user wants to have custom license, use that.
 if viper.IsSet("license.header")
 || viper.IsSet("license.text") {
  return License{Header: viper.GetString("license.header"),
   Text: viper.GetString("license.text")}
 }

 // If user wants to have built-in license, use that.
 if viper.IsSet("license") {
  return findLicense(viper.GetString("license"))
 }

 // If user didn't set any license, use Apache 2.0 by default.
 return Licenses["apache"]
}

func copyrightLine() string {
 author := viper.GetString("author")

 year := viper.GetString("year") // For tests.
 if year == "" {
  year = time.Now().Format("2006")
 }

 return "Copyright  " + year + " " + author
}

// findLicense looks for License object of built-in licenses.
```

```
// If it didn't find license, then the app will be terminated and
// error will be printed.
func findLicense(name string) License {
 found := matchLicense(name)
 if found == "" {
  cobra.CheckErr(fmt.Errorf("unknown license: " + name))
 }
 return Licenses[found]
}

// matchLicense compares the given a license name
// to PossibleMatches of all built-in
 licenses.
// It returns blank string, if name is blank string or it didn't find
// then appropriate match to name.
func matchLicense(name string) string {
 if name == "" {
  return ""
 }

 for key, lic := range Licenses {
  for _, match := range lic.PossibleMatches {
   if strings.EqualFold(name, match) {
    return key
   }
  }
 }

 return ""
}
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package cmd

func initBsdClause3() {
```

```
Licenses["bsd"] = License{
  Name:           "NewBSD",
  PossibleMatches: []string{"bsd", "newbsd", "3 clause bsd", "3-clause bsd"},
  Header: `All rights reserved.

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```

```
package cmd

func initGpl3() {
 Licenses["gpl3"] = License{
  Name:          "GNU General Public License 3.0",
  PossibleMatches: []string{"gpl3", "gplv3", "gpl", "gnu gpl3", "gnu gpl"},
  Header: `
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`,
}
}
package cmd

func initAgpl() {
Licenses["agpl"] = License{
Name: "GNU Affero General Public License",
PossibleMatches: []string{"agpl", "affero gpl", "gnu agpl"},
Header: `
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`,
 }
}
package cmd

func initLgpl() {
 Licenses["lgpl"] = License{
  Name:           "GNU Lesser General Public License",
  PossibleMatches: []string{"lgpl", "lesser gpl", "gnu lgpl"},
  Header: `
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 }
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package cmd

func initApache2() {
 Licenses["apache"] = License{
  Name:           "Apache 2.0",
  PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},
  Header: `
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func initMit() {
 Licenses["mit"] = License{
  Name:           "MIT License",
  PossibleMatches: []string{"mit"},
  Header: `
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 Licenses["freebsd"] = License{
  Name: "Simplified BSD License",
  PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd",
   "2 clause bsd", "simplified bsd license"},
  Header: `All rights reserved.
```

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`,
}
}

1.2634 go-version 1.4.0

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1.2642 openssl 1.1.1n-0+deb11u5

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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1.2645 flask-restful 0.3.10

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1.2646 compress 1.15.11

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1.2648 kubernetes-mount-utils 0.0.0

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1.2656 spf13-viper 1.7.0

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1.2657 tre 0.8.0-r2

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Id

1.2660 github.com/azure/azure-sdk-for-go/sdk/keyvault/azkeys 0.9.0

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1.2667 github.com/shirou/gopsutil/v3 3.23.3

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1.2669 jaxb-runtime 4.0.2

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1.2673 slf4j-impl 1.7.36

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1.2681 scala-collection-compat_2.13 2.10.0

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* /opt/cola/permits/1719630887_1686604745.8385057/0/scala-collection-compat-2-13-2-10-0-sources-jar/scala/collection/compat/immutable/package.scala
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1.2682 guava 32.0.1-jre

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1.2683 jansson 2.13

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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/ConstantPoolReader.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/bcel/BcelWeakClassLoaderReference.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/annotation/ElementValue.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/annotation/RuntimeInvisAnnos.java
*
 /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/annotation/RuntimeAnnos.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/AbstractAnnotationAJ.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/TemporaryTypeMunger.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/IUnwovenClassFile.java
*
 /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/bcel/BcelAnnotation.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/asm/IHierarchy.java
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* Andy Clement various fixes
* Trask Stanalker #373195
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/tools/DefaultTrace.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/tools/TraceFactory.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/ConstantNameAndType.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/generic/ClassGenException.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/generic/InstructionFactory.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/generic/FieldInstruction.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/util/NonCachingClassLoaderRepository.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/StackMapEntry.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/Repository.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/NestHost.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/generic/InstructionTargeter.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/ConstantInterfaceMethodref.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/ConstantValue.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/ConstantDouble.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/ClassFormatException.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/generic/ClassGen.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-

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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/util/DefaultClassLoaderReference.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/Synthetic.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/ConstantInvokeDynamic.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/generic/ReferenceType.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/generic/ObjectType.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/generic/InstructionHandle.java
*
/opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/util/ClassLoaderReference.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/Deprecated.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/generic/InvokeInstruction.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/ConstantPool.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/generic/InstructionShort.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/Code.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/ConstantFieldref.java
*
/opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/generic/LocalVariableGen.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/InnerClass.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/InnerClasses.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/StackMap.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/SourceFile.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/generic/SwitchBuilder.java

* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/generic/ArrayType.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/ConstantUtf8.java
*
/opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/ConstantInteger.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/ConstantsInitializer.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/generic/LineNumberGen.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/generic/FieldOrMethod.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/generic/InstructionByte.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/ConstantLong.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/util/ClassLoaderRepository.java
*
/opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/ConstantCP.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/StackMapType.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/generic/MULTIANEWARRAY.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/JavaClass.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/ConstantClass.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/generic/RET.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/CodeException.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/util/ByteSequence.java
*
/opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/ConstantMethodref.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/generic/InstVisitor.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/ConstantDynamic.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/generic/FieldGenOrMethodGen.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/Constant.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-

jar/org/aspectj/apache/bcel/Constants.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/ConstantMethodHandle.java
*
/opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/generic/ReturnaddressType.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/generic/FieldGen.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/generic/LOOKUPSWITCH.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/ConstantMethodType.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/generic/InstructionSelect.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/Unknown.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/generic/Type.java
*
/opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/Modifiers.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/generic/InstructionList.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/Utility.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/Method.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/generic/IINC.java
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* Lyor Goldstein (vmware) add support for weaved class being re-defined
***/

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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/tools/cache/AsynchronousFileCacheBacking.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/tools/cache/ZippedFileCacheBacking.java

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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/ICrossReferenceHandler.java
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* Alexandre Vasseur if() implementation for @AJ style
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/IfPointcut.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/TypePattern.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/BindingTypePattern.java

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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/runtime/reflect/UnlockSignatureImpl.java

* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/runtime/reflect/LockSignatureImpl.java
*
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/ReferenceType.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/AbstractReferenceTypeDelegate.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/aj/org/objectweb/asm/AnnotationWriter.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/aj/org/objectweb/asm/FieldVisitor.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/aj/org/objectweb/asm/Handler.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/aj/org/objectweb/asm/TypePath.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/aj/org/objectweb/asm/ClassVisitor.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/aj/org/objectweb/asm/Constants.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/aj/org/objectweb/asm/TypeReference.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/aj/org/objectweb/asm/ConstantDynamic.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/aj/org/objectweb/asm/Type.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/aj/org/objectweb/asm/signature/SignatureWriter.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/aj/org/objectweb/asm/CurrentFrame.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/aj/org/objectweb/asm/Attribute.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/aj/org/objectweb/asm/MethodTooLargeException.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/aj/org/objectweb/asm/ModuleWriter.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-

jar/aj/org/objectweb/asm/ClassReader.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/aj/org/objectweb/asm/MethodVisitor.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/aj/org/objectweb/asm/AnnotationVisitor.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/aj/org/objectweb/asm/ModuleVisitor.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/aj/org/objectweb/asm/Edge.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/aj/org/objectweb/asm/RecordComponentVisitor.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/aj/org/objectweb/asm/ClassWriter.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/aj/org/objectweb/asm/FieldWriter.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/aj/org/objectweb/asm/SymbolTable.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/aj/org/objectweb/asm/Symbol.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/aj/org/objectweb/asm/Label.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/aj/org/objectweb/asm/MethodWriter.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/aj/org/objectweb/asm/ClassTooLargeException.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/aj/org/objectweb/asm/signature/SignatureReader.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/aj/org/objectweb/asm/ByteVector.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/aj/org/objectweb/asm/Handle.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/aj/org/objectweb/asm/RecordComponentWriter.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/aj/org/objectweb/asm/Context.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/aj/org/objectweb/asm/signature/SignatureVisitor.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/EllipsisTypePattern.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/reflect/InternalUseOnlyPointcutParser.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/lang/ProceedingJoinPoint.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/lang/annotation/Pointcut.java
*
 /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/lang/annotation/Around.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/lang/annotation/DeclarePrecedence.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/bcel/AtAjAttributes.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/lang/annotation/After.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/lang/annotation/Aspect.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/bcel/BcelPerClauseAspectAdder.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/lang/annotation/AfterReturning.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/lang/annotation/Before.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/annotation/ArrayElementValue.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/annotation/AnnotationElementValue.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/annotation/SimpleElementValue.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/annotation/RuntimeParamAnnos.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/annotation/RuntimeVisAnnos.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/annotation/ClassElementValue.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/AbstractSignaturePattern.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/AndSignaturePattern.java
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 /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/tools/JoinPointMatch.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/reflect/PointcutParameterImpl.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/lang/reflect/PerClauseKind.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/TypeVariablePatternList.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/lang/reflect/PointcutBasedPerClause.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/internal/lang/reflect/DeclareParentsImpl.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/lang/reflect/DeclareErrorOrWarning.java

* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/lang/reflect/Pointcut.java
*
 /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/MissingResolvedTypeWithKnownSignature.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/internal/tools/PointcutDesignatorHandlerBasedPointcut.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/ScopeWithTypeVariables.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/internal/lang/reflect/InterTypeConstructorDeclarationImpl.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/internal/lang/reflect/StringToType.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/internal/lang/reflect/PointcutBasedPerClauseImpl.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/lang/reflect/NoSuchAdviceException.java
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 /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/internal/lang/annotation/ajcDeclareParents.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/reflect/Java15GenericSignatureInformationProvider.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/JoinPointSignatureIterator.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/internal/lang/reflect/TypePatternBasedPerClauseImpl.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/HasThisTypePatternTriedToSneakInSomeGenericOrParameterizedTypePatternMatchingStuffAnywhereVisitor.java
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 /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/lang/reflect/InterTypeDeclaration.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/internal/lang/annotation/ajcPrivileged.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/lang/reflect/InterTypeMethodDeclaration.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/tools/ShadowMatch.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/lang/annotation/DeclareWarning.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/internal/lang/reflect/AjTypeImpl.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/lang/reflect/PerClause.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/TypeVariablePattern.java

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/opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/internal/lang/reflect/DeclareAnnotationImpl.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/internal/lang/reflect/PointcutImpl.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/tools/DefaultMatchingContext.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/reflect/Java15ReflectionBasedReferenceTypeDelegate.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/reflect/ReflectionBasedReferenceTypeDelegateFactory.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/reflect/ShadowMatchImpl.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/lang/annotation/DeclareError.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/JoinPointSignature.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/reflect/Java14GenericSignatureInformationProvider.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/lang/reflect/AjTypeSystem.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/bridge/context/PinpointingMessageHandler.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/internal/lang/reflect/TypePatternImpl.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/lang/reflect/NoSuchPointcutException.java
*
/opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/AbstractPatternNodeVisitor.java

* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/lang/reflect/TypePatternBasedPerClause.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/reflect/StandardShadow.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/lang/reflect/InterTypeFieldDeclaration.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/reflect/ReflectionShadow.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/internal/lang/annotation/ajcDeclareAnnotation.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/internal/lang/annotation/ajcITD.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/lang/reflect/PointcutExpression.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/tools/UnsupportedPointcutPrimitiveException.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/reflect/ReflectionBasedReferenceTypeDelegate.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/lang/reflect/DeclareAnnotation.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/HasMemberTypePatternFinder.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/internal/lang/reflect/DeclareSoftImpl.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-

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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/lang/reflect/TypePattern.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/internal/lang/annotation/ajcDeclareSoft.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/internal/tools/MatchingContextBasedTest.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/internal/lang/reflect/SignaturePatternImpl.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/reflect/ReflectionVar.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/internal/lang/reflect/DeclarePrecedenceImpl.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/internal/lang/annotation/ajcDeclareEoW.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/MethodParameters.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/IWeaveRequestor.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/bcel/UnwovenClassFileWithThirdPartyManagedBytecode.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/ast/HasAnnotation.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/tools/StandardPointcutParser.java
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jar/aj/org/objectweb/asm/package.html
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/bcel/BcelWeaver.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/loadtime/IWeavingContext.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/ModulePackages.java
*
 /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/ConstantPackage.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/ConstantModule.java
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* Abraham Nevado new factory methods for collapsed SJPs
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jar/org/aspectj/weaver/reflect/ReflectionFastMatchInfo.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/bridge/ILifecycleAware.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/BasicTokenSource.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/ThrowsPattern.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/Iterators.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/DeclareSoft.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/ExposedState.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/ast/ASTNode.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/CflowPointcut.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/SignaturePattern.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/bcel/BcelClassWeaver.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/ast/Or.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/bcel/ExceptionRange.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/ast/Expr.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/bcel/BcelFieldRef.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/DeclarePrecedence.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/StaticJoinPointFactory.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/ThisOrTargetPointcut.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/bcel/BcelField.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/bcel/BcelCflowStackFieldAdder.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/model/AsmRelationshipProvider.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/ITokenSource.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/Position.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/ParserException.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/AdviceKind.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/bcel/BcelRenderer.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/SimpleScope.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/AndPointcut.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/AjcMemberMaker.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/ConcreteTypeMunger.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/ExactTypePattern.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/Checker.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/SourceContextImpl.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/MemberImpl.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/KindedPointcut.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/NewParentTypeMunger.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/NewConstructorTypeMunger.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/NewFieldTypeMunger.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/ast/FieldGet.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/ast/Test.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/ast/FieldGetCall.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/ast/ITestVisitor.java

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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/NotAnnotationTypePattern.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/BindingPattern.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/PointcutEvaluationExpenseComparator.java
*
 /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/ThisOrTargetAnnotationPointcut.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/PointcutRewriter.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/internal/tools/StandardPointcutExpressionImpl.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/AnnotatedElement.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/internal/tools/PointcutExpressionImpl.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/internal/tools/TypePatternMatcherImpl.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/BindingAnnotationTypePattern.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/WildAnnotationTypePattern.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/tools/PointcutExpression.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/tools/TypePatternMatcher.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-

jar/org/aspectj/weaver/patterns/WithinCodeAnnotationPointcut.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/tools/PointcutPrimitive.java
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*
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/AnnotationPatternList.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/ExactAnnotationTypePattern.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/lang/reflect/AdviceSignature.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/lang/reflect/CodeSignature.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/bridge/IMessageHolder.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/bridge/Message.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/bridge/MessageWriter.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/bridge/ISourceLocation.java
*
/opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/runtime/internal/CFlowPlusState.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/runtime/reflect/AdviceSignatureImpl.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/runtime/reflect/SourceLocationImpl.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/runtime/internal/CFlowStack.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/runtime/reflect/StringMaker.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/lang/reflect/SourceLocation.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/runtime/CFlow.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/runtime/reflect/CodeSignatureImpl.java
*
/opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/lang/reflect/CatchClauseSignature.java
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*    Andy Clement     initial implementation
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/runtime/internal/cflowstack/ThreadCounterImpl11.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/runtime/internal/cflowstack/ThreadStackImpl11.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/bcel/BcelTypeMunger.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/ResolvedTypeMunger.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/annotation/AnnotationGen.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/AnnotationNameValuePair.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/EnumAnnotationValue.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/ArrayAnnotationValue.java
*
/opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/SimpleAnnotationValue.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/AnnotationValue.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/ClassAnnotationValue.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/asm/IModelFilter.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/IVerificationRequired.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/asm/IHierarchyListener.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/asm/IElementHandleProvider.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/asm/IRelationshipMap.java
*
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* variant of Aspects in the aspectj5rt project - this one isn't Java5 - Andy Clement
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/asm/internal/CharOperation.java
*

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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/tools/cache/SimpleCache.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/tools/cache/WeavedClassCache.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/tools/cache/AbstractFileCacheBacking.java
*

/opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/tools/cache/CachedClassReference.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/tools/cache/DefaultFileCacheBacking.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/tools/cache/AbstractCacheBacking.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/tools/cache/GeneratedCachedClassHandler.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/tools/WeavingAdaptor.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/AnnotationOnTypeMunger.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/PerTypeWithin.java

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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/loadtime/definition/Definition.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/loadtime/ConcreteAspectCodeGen.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/bcel/BcelAccessForInlineMunger.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/PerThisOrTargetPointcutVisitor.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/loadtime/Options.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/loadtime/Agent.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/loadtime/Aj.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/loadtime/DefaultMessageHandler.java

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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/runtime/internal/cflowstack/ThreadStack.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/EnclosingMethod.java
*
 /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/AnnotationDefault.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/runtime/internal/CFlowCounter.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/runtime/internal/cflowstack/ThreadCounter.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/runtime/internal/cflowstack/ThreadStackFactoryImpl.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/runtime/internal/cflowstack/ThreadStackFactoryImpl11.java
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*    Andy Clement 23-06-06 added extras for @AJ
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/runtime/internal/AroundClosure.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/annotation/RuntimeInvisTypeAnnos.java
* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/annotation/RuntimeTypeAnnos.java
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* /opt/cola/permits/1720300443_1702660137.662709/0/aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/bcel/BcelShadow.java
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1.2685 beevik-etree 1.2.0

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*/
```

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For the server\util_md5.c component:

```
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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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 *
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For the srclib\apr-util\xml\expat\conftools\install-sh component:

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install - install a program, script, or datafile
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For the pcre component:

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Written by: Philip Hazel <ph10@cam.ac.uk>

University of Cambridge Computing Service,
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     ===============

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   Written by Adam Twiss (adam@zeus.co.uk).  March 1996

Thanks to the following people for their input:
 Mike Belshe (mbelshe@netscape.com)
 Michael Campanella (campanella@stevms.enet.dec.com)

*/
```

For the expat xml parser component:

```
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//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
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package github

import (
 "context"
 "fmt"
)

// LicensesService handles communication with the license related
// methods of the GitHub API.
//
// GitHub API docs: https://developer.github.com/v3/licenses/
type LicensesService service

// RepositoryLicense represents the license for a repository.
type RepositoryLicense struct {
 Name *string `json:"name,omitempty"`
 Path *string `json:"path,omitempty"`

 SHA         *string  `json:"sha,omitempty"`
 Size        *int     `json:"size,omitempty"`
 URL         *string  `json:"url,omitempty"`
 HTMLURL     *string  `json:"html_url,omitempty"`
 GitURL      *string  `json:"git_url,omitempty"`
```

```
 DownloadURL *string  `json:"download_url,omitempty"`
 Type        *string  `json:"type,omitempty"`
 Content     *string  `json:"content,omitempty"`
 Encoding    *string  `json:"encoding,omitempty"`
 License
     *License `json:"license,omitempty"`
}

func (l RepositoryLicense) String() string {
 return Stringify(l)
}

// License represents an open source license.
type License struct {
 Key  *string `json:"key,omitempty"`
 Name *string `json:"name,omitempty"`
 URL  *string `json:"url,omitempty"`

 SPDXID         *string   `json:"spdx_id,omitempty"`
 HTMLURL        *string   `json:"html_url,omitempty"`
 Featured       *bool     `json:"featured,omitempty"`
 Description    *string   `json:"description,omitempty"`
 Implementation *string   `json:"implementation,omitempty"`
 Permissions    *[]string `json:"permissions,omitempty"`
 Conditions     *[]string `json:"conditions,omitempty"`
 Limitations    *[]string `json:"limitations,omitempty"`
 Body           *string   `json:"body,omitempty"`
}

func (l License) String() string {
 return Stringify(l)
}

// List popular open source licenses.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s
 *LicensesService) List(ctx context.Context) ([]*License, *Response, error) {
 req, err := s.client.NewRequest("GET", "licenses", nil)
 if err != nil {
  return nil, nil, err
 }

 // TODO: remove custom Accept header when this API fully launches
 req.Header.Set("Accept", mediaTypeLicensesPreview)

 var licenses []*License
 resp, err := s.client.Do(ctx, req, &licenses)
```

```
 if err != nil {
  return nil, resp, err
 }

 return licenses, resp, nil
}

// Get extended metadata for one license.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(ctx context.Context, licenseName string) (*License, *Response, error) {
 u := fmt.Sprintf("licenses/%s", licenseName)

 req, err := s.client.NewRequest("GET", u, nil)
 if err != nil {
  return nil, nil, err
 }

 // TODO: remove custom Accept header when this API fully launches
 req.Header.Set("Accept", mediaTypeLicensesPreview)

 license := new(License)
 resp, err := s.client.Do(ctx, req,
 license)
 if err != nil {
  return nil, resp, err
 }

 return license, resp, nil
}
```

Protocol Buffers for Go with Gadgets

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http://github.com/gogo/protobuf

Go support for Protocol Buffers - Google's data interchange format

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tomb - support for clean goroutine termination in Go.

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```
package artifactory

import (
 "encoding/json"
)

type LicenseInformation struct {
 LicenseType  string `json:"type"`
 ValidThrough string `json:"validThrough"`
 LicensedTo   string `json:"licensedTo"`
}

func (c *ArtifactoryClient) GetLicenseInformation() (LicenseInformation, error) {
 o := make(map[string]string, 0)
 var l LicenseInformation
 d, e := c.Get("/api/system/license", o)
 if e != nil {
  return l, e
 } else {
  err := json.Unmarshal(d, &l)
  return l, err
 }
}
```

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gokrb5

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1.2690 x-oauth2 0.8.0

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1.2691 maven-resolver-named-locks 1.8.2

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1.2714 swagger-core-jakarta 2.2.9

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1.2719 github.com/a8m/envsubst 1.4.2

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1.2720 github.com/grpc-ecosystem/grpc-gateway/v2 2.16.0

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1.2721 ncurses 6.2-0ubuntu2.1

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1.2740 prometheus-client 1.16.0

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1.2748 asyncapi-spec-json-schemas 2.14.0

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1.2762 filippo.io/age 1.1.1

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1.2763 github.com/nsf/termbox-go 1.1.1

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1.2768 ttrpc 1.2.2

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* /opt/cola/permits/1743695158_1689241481.5229151/0/rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/SstFileReaderIterator.java
* /opt/cola/permits/1743695158_1689241481.5229151/0/rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/StateType.java
* /opt/cola/permits/1743695158_1689241481.5229151/0/rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/TraceWriter.java
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* /opt/cola/permits/1743695158_1689241481.5229151/0/rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/CompactionJobStats.java
* /opt/cola/permits/1743695158_1689241481.5229151/0/rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/AbstractWriteBatch.java
* /opt/cola/permits/1743695158_1689241481.5229151/0/rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/AbstractEventListener.java
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* /opt/cola/permits/1743695158_1689241481.5229151/0/rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/BloomFilter.java
* /opt/cola/permits/1743695158_1689241481.5229151/0/rocksdbjni-7-9-2-sources-1-

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* /opt/cola/permits/1743695158_1689241481.5229151/0/rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/ColumnFamilyOptions.java
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* /opt/cola/permits/1743695158_1689241481.5229151/0/rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/ConcurrentTaskLimiterImpl.java
* /opt/cola/permits/1743695158_1689241481.5229151/0/rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/ConcurrentTaskLimiter.java
* /opt/cola/permits/1743695158_1689241481.5229151/0/rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/SanityLevel.java
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1.2779 checker-qual 3.33.0

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From strings/apr_fnmatch.c, include/apr_fnmatch.h, misc/unix/getopt.c,
file_io/unix/mktemp.c, strings/apr_strings.c:

```
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From dso/aix/dso.c:

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From strings/apr_strnatcmp.c,
 include/apr_strings.h:

 strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From
strings/apr_snprintf.c:

```
*
* cvt - IEEE floating point formatting routines.
*       Derived from UNIX V7, Copyright(C) Caldera International Inc.
*
```

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1.2786 clientmodel 0.4.0

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1.2787 github.com/centrifugal/protocol 0.10.0

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1.2789 github.com/unknwon/log 0.0.0-20150304194804-e617c87089d3

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1.2791 github.com/segmentio/asm 1.2.0

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1.2792 github.com/grafana/dataplane/sdata 0.0.6

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1.2793 buf.build/gen/go/parca-dev/parca/bufbuild/connect-go 1.4.1-20221222094228-8b1d3d0f62e6.1

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1.2794 github.com/getkin/kin-openapi 0.115.0

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```
package openapi3

import (
 "context"
 "encoding/json"
 "errors"
)

// License is specified by OpenAPI/Swagger standard version 3.
// See https://github.com/OAI/OpenAPI-Specification/blob/main/versions/3.0.3.md#license-object
type License struct {
 Extensions map[string]interface{} `json:"-" yaml:"-"`

 Name string `json:"name" yaml:"name"` // Required
 URL  string `json:"url,omitempty" yaml:"url,omitempty"`
}

// MarshalJSON returns the JSON encoding of License.
func (license License) MarshalJSON() ([]byte, error) {
 m := make(map[string]interface{}, 2+len(license.Extensions))
 for k, v := range license.Extensions {
  m[k] = v
```

```
 }
 m["name"] = license.Name
 if x := license.URL; x != "" {
  m["url"] = x
 }
 return json.Marshal(m)
}

// UnmarshalJSON sets License to a copy of data.
func (license *License) UnmarshalJSON(data []byte) error {
 type LicenseBis License
 var x LicenseBis
 if err := json.Unmarshal(data, &x); err != nil {
  return unmarshalError(err)
 }
 _ = json.Unmarshal(data,
 &x.Extensions)
 delete(x.Extensions, "name")
 delete(x.Extensions, "url")
 if len(x.Extensions) == 0 {
  x.Extensions = nil
 }
 *license = License(x)
 return nil
}

// Validate returns an error if License does not comply with the OpenAPI spec.
func (license *License) Validate(ctx context.Context, opts ...ValidationOption) error {
 ctx = WithValidationOptions(ctx, opts...)

 if license.Name == "" {
  return errors.New("value of license name must be a non-empty string")
 }

 return validateExtensions(ctx, license.Extensions)
}
```

1.2795 github.com/grafana/grafana-google-sdk-go 0.1.0

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1.2796 grafana-dataplane-sdata 0.0.6

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1.2804 github.com/invopop/yaml 0.2.0

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1.2806 jboss-logging 3.5.3.Final

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1.2811 flyway-core 9.16.3

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* /opt/cola/permits/1756038378_1690874394.9774568/0/flyway-core-9-16-3-sources-jar/META-INF/maven/org.flywaydb/flyway-core/pom.xml
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1.2812 signal-exit 4.1.0

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1.2813 guava 32.1.2-jre

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1.2814 go-zfs 3.0.1

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1.2815 systemd 247.3-7+deb11u4

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[cols="10%,90%",frame="none",grid="none",style="verse"]
|==========
|image:pic/sheepb.jpg[]|
"Clone me," says Dolly sheepishly.

|==========

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-----------------------------------------------------------------------
```

The
following individuals have contributed significantly to
NTPsec:

* mailto:esr@thyrsus.com[Eric S. Raymond <esr@thyrsus.com>] Massive
code reduction/refactoring/hardening, documentation cleanup and update,
new refclock configuration syntax.
* mailto:gem@rellim.com[Gary E. Miller <gem@rellim.com>] Code
ANSIfication, testing, ntpviz
* mailto:dfranke@dfranke.us[Daniel Fox Franke <dfranke@dfranke.us>]
CVE fixes, protocol machine refactoring.
* mailto:hmurray@megapathdsl.net[Hal Murray <hmurray@megapathdsl.net>]
Code cleanups, bug hunting, sage advice.
* mailto:verm@darkbeer.org[Amar Takhar <verm@darkbeer.org>] waf build recipe.
* mailto:matthew.selsky@twosigma.com[Matt Selsky
<matthew.selsky@twosigma.com>] Documentation corrections,
compiler warning and port cleanup.

The following individuals contributed in part to the Network Time
Protocol Distribution Version 4
("NTP Classic") and are acknowledged
as authors of this work.

* mailto:takao_abe@xurb.jp[Takao Abe <takao_abe@xurb.jp>] Clock
driver for JJY receivers
* mailto:karl@owl.HQ.ileaf.com[Karl Berry <karl@owl.HQ.ileaf.com>]
syslog to file option
* mailto:Marc.Brett@westgeo.com[Marc Brett
<Marc.Brett@westgeo.com>] Magnavox GPS clock driver (removed in NTPsec)
* mailto:Piete.Brooks@cl.cam.ac.uk[Piete Brooks
<Piete.Brooks@cl.cam.ac.uk>] Trimble PARSE support
* mailto:nelson@bolyard.me[Nelson B Bolyard <nelson@bolyard.me>]
update and complete broadcast and crypto features in sntp
* mailto:Jean-Francois.Boudreault@viagenie.qc.ca[Jean-Francois
Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca>] IPv6 support
* mailto:reg@dwf.com[Reg Clemens <reg@dwf.com>] Oncore driver
(Current maintainer)
* mailto:Sven_Dietrich@trimble.COM[Sven Dietrich
<sven_dietrich@trimble.com>] Palisade reference clock driver
* mailto:duwe@immd4.informatik.uni-erlangen.de[Torsten Duwe
<duwe@immd4.informatik.uni-erlangen.de>]
Linux port
* mailto:dennis@mrbill.canet.ca[Dennis Ferguson
<dennis@mrbill.canet.ca>] foundation code for NTP Version 2 as specified
in RFC 1119
* mailto:jhay@icomtek.csir.co.za[John Hay
<jhay@icomtek.csir.co.za>] IPv6 support and testing
* mailto:davehart@davehart.com[Dave Hart <davehart@davehart.com>]

General maintenance
* mailto:glenn@herald.usask.ca[Glenn Hollinger
<glenn@herald.usask.ca>] GOES clock driver (removed in NTPsec)
* mailto:jbj@chatham.usdesign.com[Jeff Johnson
<jbj@chatham.usdesign.com>] massive prototyping overhaul
* mailto:Hans.Lambermont@nl.origin-it.com[Hans Lambermont
<Hans.Lambermont@nl.origin-it.com>] or
mailto:H.Lambermont@chello.nl[<H.Lambermont@chello.nl>] ntpsweep
* mailto:phk@FreeBSD.ORG[Poul-Henning Kamp <phk@FreeBSD.ORG>]
Oncore driver (Original author)
* https://www4.informatik.uni-erlangen.de/%7ekardel[Frank Kardel]
mailto:kardel@ntp.org[<kardel (at) ntp
(dot) org>] PARSE <GENERIC> (driver 14 reference clocks),
STREAMS
modules for PARSE, support scripts, syslog cleanup, dynamic interface
handling
* mailto:kuehn@ntp.org[Johannes Maximilian Kuehn <kuehn@ntp.org>]
Rewrote +sntp+ to comply with NTPv4 specification
* mailto:leres@ee.lbl.gov[Craig Leres <leres@ee.lbl.gov>] 4.4BSD
port, ppsclock, Magnavox GPS clock driver
* mailto:louie@ni.umd.edu[Louis A. Mamakos <louie@ni.umd.edu>]
MD5-based authentication
* mailto:thorinn@diku.dk[Lars H. Mathiesen <thorinn@diku.dk>]
adaptation of foundation code for Version 3 as specified in RFC 1305
* mailto:mayer@ntp.org[Danny Mayer <mayer@ntp.org>]Network I/O,
Windows Port, Code Maintenance
* mailto:mills@udel.edu[David L. Mills <mills@udel.edu>] Version 4
foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18,
19, 22, 36
* mailto:mogul@pa.dec.com[Jeffrey Mogul <mogul@pa.dec.com>] ntptrace utility
* mailto:neal@ntp.org[Rob Neal <neal@ntp.org>] config/parse code maintenance
* mailto:jack@innovativeinternet.com[Jack Sasportas

<jack@innovativeinternet.com>] Saved a Lot of space on the stuff in the
html/pic/ subdirectory
* mailto:shields@tembel.org[Michael Shields <shields@tembel.org>]
USNO clock driver
* mailto:harlan@pfcs.com[Harlan Stenn <harlan@pfcs.com>]
General maintenance (see the ChangeLog)
* mailto:ajit@ee.udel.edu[Ajit Thyagarajan <ajit@ee.udel.edu>]IP
multicast/anycast support
* mailto:brian.utterback@oracle.com[Brian Utterback
<brian.utterback@oracle.com>] General codebase
* mailto:loganaden@gmail.com[Loganaden Velvindron
<loganaden@gmail.com>] Sandboxing (libseccomp) support
* mailto:vixie@vix.com[Paul A Vixie <vixie@vix.com>] TrueTime GPS
driver, generic TrueTime clock driver

The following people contributed code to NTP Classic which has since
been removed:

* mailto:mark_andrews@isc.org[Mark Andrews <mark_andrews@isc.org>]
 Leitch atomic clock controller
* mailto:altmeier@atlsoft.de[Bernd Altmeier <altmeier@atlsoft.de>]
 hopf Elektronik serial line and PCI-bus devices
* mailto:vbais@mailman1.intel.com[Viraj
 Bais <vbais@mailman1.intel.com>] and
 mailto:kirkwood@striderfm.intel.com[Clayton Kirkwood
 <kirkwood@striderfm.intel.com>] port to WindowsNT 3.5
* mailto:michael.barone@lmco.com[Michael Barone
 <michael,barone@lmco.com>] GPSVME fixes
* mailto:greg.brackley@bigfoot.com[Greg Brackley
 <greg.brackley@bigfoot.com>] Major rework of WINNT port. Clean up
 recvbuf and iosignal code into separate modules.
* mailto:Piete.Brooks@cl.cam.ac.uk[Piete Brooks
 <Piete.Brooks@cl.cam.ac.uk>] MSF clock driver
* mailto:clift@ml.csiro.au[Steve Clift <clift@ml.csiro.au>] OMEGA clock driver
* mailto:casey@csc.co.za[Casey Crellin <casey@csc.co.za>] vxWorks
 (Tornado) port and help with target configuration
* mailto:Sven_Dietrich@trimble.COM[Sven Dietrich
 <sven_dietrich@trimble.com>] NT adj. residuals, integrated Greg's Winnt port.
* mailto:dundas@salt.jpl.nasa.gov[John A. Dundas III
 <dundas@salt.jpl.nasa.gov>] Apple A/UX port
* mailto:davehart@davehart.com[Dave Hart <davehart@davehart.com>]
  Windows port interpolation rewrite
* mailto:iglesias@uci.edu[Mike Iglesias <iglesias@uci.edu>] DEC Alpha port
* mailto:jim@jagubox.gsfc.nasa.gov[Jim Jagielski
 <jim@jagubox.gsfc.nasa.gov>] A/UX port
* mailto:kuehn@ntp.org[Johannes Maximilian Kuehn <kuehn@ntp.org>]
 +ntpq saveconfig+
* mailto:jones@hermes.chpc.utexas.edu[William L. Jones
 <jones@hermes.chpc.utexas.edu>] RS/6000 AIX modifications, HPUX
 modifications
* mailto:dkatz@cisco.com[Dave Katz <dkatz@cisco.com>] RS/6000 AIX port
* mailto:lindholm@ucs.ubc.ca[George Lindholm <lindholm@ucs.ubc.ca>]
 SunOS 5.1 port
* mailto:moeller@gwdgv1.dnet.gwdg.de[Wolfgang Moeller
 <moeller@gwdgv1.dnet.gwdg.de>] VMS port
* mailto:tmoore@fievel.daytonoh.ncr.com[Tom Moore
 <tmoore@fievel.daytonoh.ncr.com>] i386 svr4 port
* mailto:kamal@whence.com[Kamal A Mostafa <kamal@whence.com>] SCO OpenServer port
* mailto:derek@toybox.demon.co.uk[Derek Mulcahy
 <derek@toybox.demon.co.uk>] and mailto:d@hd.org[Damon Hart-Davis
  <d@hd.org>] ARCRON MSF clock driver
* mailto:neal@ntp.org[Rob Neal <neal@ntp.org>] Bancomm refclock
* mailto:Rainer.Pruy@informatik.uni-erlangen.de[Rainer Pruy

<Rainer.Pruy@informatik.uni-erlangen.de>] monitoring/trap scripts,
statistics file handling
* mailto:dirce@zk3.dec.com[Dirce Richards <dirce@zk3.dec.com>]
Digital UNIX V4.0 port
* mailto:wsanchez@apple.com[Wilfredo Snchez <wsanchez@apple.com>]
added support for NetInfo
* mailto:mrapple@quack.kfu.com[Nick Sayer <mrapple@quack.kfu.com>]
SunOS streams modules
* mailto:schnitz@unipress.com[Ray Schnitzler <schnitz@unipress.com>]
Unixware1 port
* mailto:jss@pebbles.jpl.nasa.gov[Jeff Steinman
<jss@pebbles.jpl.nasa.gov>] Datum PTS clock driver
* mailto:harlan@pfcs.com[Harlan Stenn <harlan@pfcs.com>] GNU
automake/autoconfigure makeover
* mailto:ken@sdd.hp.com[Kenneth Stone <ken@sdd.hp.com>] HP-UX port
* mailto:tsuruoka@nc.fukuoka-u.ac.jp[Tomoaki TSURUOKA
<tsuruoka@nc.fukuoka-u.ac.jp>]TRAK clock driver
* mailto:brian.utterback@oracle.com[Brian
Utterback
<brian.utterback@oracle.com>] Solaris issues
* mailto:Ulrich.Windl@rz.uni-regensburg.de[Ulrich Windl
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1.2819 benbjohnson-clock 1.3.5

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1.2820 github.com/benbjohnson/clock 1.3.5

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1.2821 jmespath 1.0.1

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1.2823 pool 0.2.0

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Pool

Generic (connection) pools for Crystal

Getting Started

A pool tailored for sharing connections across coroutines.

Connections will be checkout from the pool and tied to the current fiber, until
they are checkin, and thus be usable by another coroutine. Otherwise they behave
the same than the generic pool.

```crystal
require "pg"
require "pool/connection"
```

```
pg = ConnectionPool.new(capacity: 25, timeout: 0.01) do
 PG.connect(ENV["DATABASE_URL"])
end
```

You may checkout as many connections in parallel as needed, then checkin the connections as required:

```crystal
conn = pg.checkout
result = conn.exec("SELECT * FROM posts")
pg.checkin(conn)
```

You may checkout a single connection per coroutine. Trying to checkout another one will always return the same single connection:

```crystal
conn = pg.connection
result = conn.exec("SELECT * FROM posts")
pg.release
```

You may also use a block, so the connection
 will be checkin back into the pool,
unless the connection was already checkout, in which case it will be passed to the block, but not returned to the pool:

```crystal
pg.connection do |conn|
 result = conn.exec("SELECT * FROM posts")
end
```

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Found in path(s):
* /opt/cola/permits/1758376099_1691056694.737267/0/ysbaddaden-pool-v0-2-0-0-g3ac3078-tar-gz/ysbaddaden-pool-3ac3078/README.md
No license file was found, but licenses were detected in source scan.

name: pool
version: 0.2.0
description: Generic (connection) pools for Crystal

authors:
 - Julien Portalier <julien@portalier.com>

development_dependencies:
 minitest:
   github: ysbaddaden/minitest.cr

license: Apache-2.0

Found in path(s):
* /opt/cola/permits/1758376099_1691056694.737267/0/ysbaddaden-pool-v0-2-0-0-g3ac3078-tar-gz/ysbaddaden-pool-3ac3078/shard.yml

1.2824 github.com/r3labs/sse/v2 2.8.1

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1.2835 github.com/jeffail/tunny 0.1.4

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1.2839 google-golang-org-genproto 0.0.0-20200806141610-86f49bd18e98

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1.2840 github.com/asyncapi/spec-json-schemas/v2 2.14.0

1.2840.1 Available under license :

```
{
 "type": "object",
 "required": [
   "name"
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 "additionalProperties": false,
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     "format": "uri"
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"url": "https://www.apache.org/licenses/LICENSE-2.0.html"
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}
Apache License 2.0
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"type": "string",
"description": "The name of the license type. It's encouraged to use an OSI compatible license."
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},
"$schema": "http://json-schema.org/draft-07/schema#",
"$id": "http://asyncapi.com/definitions/2.0.0-rc1/license.json"
}

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{
"type": "object",
"required": [
  "name"
],
"additionalProperties": false,
"properties": {
  "name": {
    "type": "string",
    "description": "The name of the license type. It's encouraged to use an OSI compatible license."
  },
  "url": {
    "type": "string",
    "description": "The URL pointing to the license.",
    "format": "uri"
```

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  }
 },
 "patternProperties": {
  "^x-[\\w\\d\\.\\x2d_]+$": {
    "$ref": "http://asyncapi.com/definitions/2.0.0/specificationExtension.json"
  }
 },
 "$schema": "http://json-schema.org/draft-07/schema#",
 "$id": "http://asyncapi.com/definitions/2.0.0/license.json"
}
{
 "type": "object",
 "required": [
  "name"
 ],
 "additionalProperties": false,
 "properties": {
  "name": {
    "type": "string",
    "description": "The name of the license type. It's encouraged to use an OSI compatible license."
  },
  "url": {
    "type": "string",
    "description": "The URL pointing to the license.",
    "format": "uri"
  }
 },
 "patternProperties": {
  "^x-[\\w\\d\\.\\x2d_]+$": {
    "$ref": "http://asyncapi.com/definitions/2.4.0/specificationExtension.json"
  }
 },
 "$schema": "http://json-schema.org/draft-07/schema#",
 "$id": "http://asyncapi.com/definitions/2.4.0/license.json"
}
```


1.2841 github.com/tyktechnologies/openid2go 0.1.2

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1.2843 wheel 0.41.1

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1.2844 go-openapi-jsonpointer 0.20.0

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1.2845 x-oauth2 0.10.0

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1.2846 groovy-sql 4.0.4

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1.2847 groovy-json 4.0.4

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1.2848 groovyjsr 4.0.4

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1.2849 groovy-xml 4.0.4

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1.2858 groovy-datetime 4.0.4

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1.2859 ldaptive 2.1.1

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1.2862 github.com/go-pkgz/expirable-cache 0.1.0

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1.2863 github.com/didip/tollbooth/v7 7.0.1

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1.2868 cockroachdb-errors 1.9.1

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1.2871 bouncy-castle 1.74

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* Contains the polynomial classes used in the NTRU round 3 algorithm.
*
*
* This implementation is based on the C reference implementation submitted for the round 3 NIST PQC competition,
* released under CC0-1.0 license.
*
*
* NIST submission files
* License of reference implementation
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/**
* SPHINCS-256 signer.
*
* This implementation is heavily based on the reference implementation in SUPERCOP, the main difference being the digests used
* for message hashing and tree construction are now configurable (within limits...) and that the implementation

produces
* detached signatures.
*
*
* The SPHINCS reference implementation is public domain, as per the statement in the second last paragraph of
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/**
* An implementation of RFC 7253 on The OCB
* Authenticated-Encryption Algorithm. For those still concerned about the original patents
* around this, please see:
*
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public DomainParameters(BigInteger p, BigInteger g, BigInteger q, BigInteger j,

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/**
* The NTRU algorithm based on the round 3 submission of the NIST post-quantum cryptography. For the old NTRU, see

* {@link org.bouncycastle.pqc.legacy.crypto.ntru}.
*
*
* This implementation is based on the C reference implementation submitted for the round 3 NIST PQC competition,
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*
*
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*
* @see NIST round 3 PQC submissions page
* @see NTRU website
* @see NTRU specification
*/

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/**
* Poly1305 message authentication code, designed by D. J. Bernstein.
* <p>
* Poly1305 computes a 128-bit (16 bytes) authenticator, using a 128 bit nonce and a 256 bit key
* consisting of a 128 bit key applied to an underlying cipher, and a 128 bit key (with 106
* effective key bits) used in the authenticator.
* <p>
* The polynomial calculation in this implementation is adapted from the public domain <a
* href="https://github.com/floodyberry/poly1305-donna">poly1305-donna-unrolled C implementation
* by Andrew M (@floodyberry).
* @see Poly1305KeyGenerator
*/

Found in path(s):
* /opt/cola/permits/1764844551_1695320403.251541/0/bcprov-jdk18on-1-74-sources-jar/org/bouncycastle/crypto/macs/Poly1305.java
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/**
* Magic value for proprietary OpenSSH private key.
**/

Found in path(s):
* /opt/cola/permits/1764844551_1695320403.251541/0/bcprov-jdk18on-1-74-sources-jar/org/bouncycastle/crypto/util/OpenSSHPrivateKeyUtil.java

1.2872 tollbooth 7.0.1

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1.2876 google-golang-org-grpc 1.57.0

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1.2877 kube-openapi 0.0.0-20221012153701-172d655c2280

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}
# This source code was written by the Go contributors.
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package spec
```

```
import "testing"

func TestIntegrationLicense(t *testing.T) {
 license := License{Name: "the name", URL: "the url"}
 const licenseJSON = `{"name":"the name","url":"the url"}`
 const licenseYAML = "name: the name\nurl: the url\n"

 assertSerializeJSON(t, license, licenseJSON)
 assertParsesJSON(t, licenseJSON, license)
}
```

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1.2878 gopkg-in-yaml-v2 2.4.0

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1.2879 protobuf 1.31.0

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1.2880 clientmodel 0.3.0

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1.2881 go-uber-org-multierr 1.6.0

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1.2882 go.uber.org/atomi 1.7.0

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1.2883 utils 0.0.0-20211116205334-6203023598ed

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1.2884 kustomize-api 0.13.5-0.20230601165947-6ce0bf390ce3

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1.2891 go-control-plane 0.11.1

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1.2892 protoc-gen-validate 1.0.2

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1.2898 github.com/grafana/regexp 0.0.0-20221123153739-15dc172cd2db

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1.2899 github.com/cilium/ebpf 0.11.0

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1.2901 github.com/tyktechnologies/graphql-go-tools 1.6.2-0.20230703083850-4fa1c79561a6

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1.2902 github.com/santhosh-tekuri/jsonschema/v5 5.3.0

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1.2903 github.com/pvormste/websocket 1.8.8

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1.2904 santhosh-tekuri-jsonschema 5.3.0

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1.2905 pvormste-websocket 1.8.8

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1.2906 tyktechnologies-graphql-go-tools 1.6.2-0.20230703083850-4fa1c79561a6

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1.2907 protobuf-java 3.23.4

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Found in path(s):
* /opt/cola/permits/1781370878_1693312476.2277615/0/protobuf-java-3-23-4-jar/google/protobuf/empty.proto
* /opt/cola/permits/1781370878_1693312476.2277615/0/protobuf-java-3-23-4-jar/google/protobuf/struct.proto
* /opt/cola/permits/1781370878_1693312476.2277615/0/protobuf-java-3-23-4-jar/google/protobuf/timestamp.proto
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jar/google/protobuf/source_context.proto
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Manifest-Version: 1.0
Created-By: mergejars
Bnd-LastModified: 1688594747541
Bundle-Description: Core Protocol Buffers library. Protocol Buffers are

a way of encoding structured data in an efficient yet extensible format
.
Bundle-DocURL: https://developers.google.com/protocol-buffers/
Bundle-License: https://opensource.org/licenses/BSD-3-Clause
Bundle-ManifestVersion: 2
Bundle-Name: Protocol Buffers [Core]
Bundle-SymbolicName: com.google.protobuf
Bundle-Version: 3.23.4
Export-Package: com.google.protobuf;version="3.23.4",com.google.protobuf
.compiler;version="3.23.4";uses:="com.google.protobuf"
Import-Package: com.google.protobuf;version="[3.23,4)",sun.misc;resoluti
on:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.4.0.202211291949
Target-Label: //java/core:lite_runtime_only

Found in path(s):
* /opt/cola/permits/1781370878_1693312476.2277615/0/protobuf-java-3-23-4-jar/META-INF/MANIFEST.MF

1.2908 mod 0.12.0

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1.2909 github.com/protonmail/go-crypto 0.0.0-20230717121422-5aa5874ade95

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1.2910 spdx-tools-golang 0.5.3

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```
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package reader

import (
 "errors"
 "fmt"
 "strings"

 gordfParser "github.com/spdx/gordf/rdfloader/parser"
 "github.com/spdx/gordf/rdfwriter"
)

// AnyLicense is a baseClass for all the licenses
// All the types of licenses is a sub-type of AnyLicense,
// either directly or indirectly.
```

```
// This function acts as a mux for all the licenses. Based on the input, it
// decides which type of license it is and passes control to that type of
// license parser to parse the given input.
func (parser *rdfParser2_2) getAnyLicenseFromNode(node *gordfParser.Node) (AnyLicenseInfo, error) {

 currState := parser.cache[node.ID]
 if currState == nil {
  // there is no entry about the state of current package node.
  // this is the first time we're seeing this node.
  parser.cache[node.ID] = &nodeState{
   object: nil, // not storing the object as we won't retrieve it later.
   Color:  WHITE,
  }
 } else if currState.Color == GREY {
  // we have
 already started parsing this license node.
  // We have a cyclic dependency!
  return nil, errors.New("Couldn't parse license: found a cyclic dependency on " + node.ID)
 }

 // setting color of the state to grey to indicate that we've started to
 // parse this node once.
 parser.cache[node.ID].Color = GREY

 // setting state color to black when we're done parsing this node.
 defer func() { parser.cache[node.ID].Color = BLACK }()

 associatedTriples := rdfwriter.FilterTriples(parser.gordfParserObj.Triples, &node.ID, nil, nil)
 if len(associatedTriples) == 0 {
  // just a license uri string was found.
  return parser.getSpecialLicenseFromNode(node)
 }

 // we have some attributes associated with the license node.
 nodeType, err := getNodeTypeFromTriples(associatedTriples, node)
 if err != nil {
  return nil, fmt.Errorf("error parsing license triple: %v", err)
 }
 switch nodeType {
 case SPDX_DISJUNCTIVE_LICENSE_SET:
  return parser.getDisjunctiveLicenseSetFromNode(node)
 case SPDX_CONJUNCTIVE_LICENSE_SET:
  return
 parser.getConjunctiveLicenseSetFromNode(node)
 case SPDX_EXTRACTED_LICENSING_INFO:
  return parser.getExtractedLicensingInfoFromNode(node)
 case SPDX_LISTED_LICENSE, SPDX_LICENSE:
  return parser.getLicenseFromNode(node)
```

```
 case SPDX_WITH_EXCEPTION_OPERATOR:
  return parser.getWithExceptionOperatorFromNode(node)
 case SPDX_OR_LATER_OPERATOR:
  return parser.getOrLaterOperatorFromNode(node)
 case SPDX_SIMPLE_LICENSING_INFO:
  return parser.getSimpleLicensingInfoFromNode(node)
 }
 return nil, fmt.Errorf("Unknown subTag (%s) found while parsing AnyLicense", nodeType)
}

func (parser *rdfParser2_2) getLicenseExceptionFromNode(node *gordfParser.Node) (exception LicenseException,
err error) {
 associatedTriples := rdfwriter.FilterTriples(parser.gordfParserObj.Triples, &node.ID, nil, nil)
 for _, triple := range associatedTriples {
  value := triple.Object.ID
  switch triple.Predicate.ID {
  case RDF_TYPE:
   continue
  case SPDX_LICENSE_EXCEPTION_ID:
   exception.licenseExceptionId
 = value
  case SPDX_LICENSE_EXCEPTION_TEXT:
   exception.licenseExceptionText = value
  case RDFS_SEE_ALSO:
   if !isUriValid(value) {
    return exception, fmt.Errorf("invalid uri (%s) for seeAlso attribute of LicenseException", value)
   }
   exception.seeAlso = value
  case SPDX_NAME:
   exception.name = value
  case SPDX_EXAMPLE:
   exception.example = value
  case RDFS_COMMENT:
   exception.comment = value
  default:
   return exception, fmt.Errorf("invalid predicate(%s) for LicenseException", triple.Predicate)
  }
 }
 return exception, nil
}

func (parser *rdfParser2_2) getSimpleLicensingInfoFromNode(node *gordfParser.Node) (SimpleLicensingInfo,
error) {
 simpleLicensingTriples := rdfwriter.FilterTriples(parser.gordfParserObj.Triples, &node.ID, nil, nil)
 return parser.getSimpleLicensingInfoFromTriples(simpleLicensingTriples)
}

func (parser *rdfParser2_2) getWithExceptionOperatorFromNode(node *gordfParser.Node) (operator
```

```
WithExceptionOperator, err error) {
 associatedTriples
 := rdfwriter.FilterTriples(parser.gordfParserObj.Triples, &node.ID, nil, nil)
 var memberFound bool
 for _, triple := range associatedTriples {
  switch triple.Predicate.ID {
  case RDF_TYPE:
   continue
  case SPDX_MEMBER:
   if memberFound {
    return operator,
     fmt.Errorf("more than one member found in the WithExceptionOperator (expected only 1)")
   }
   memberFound = true
   member, err := parser.getSimpleLicensingInfoFromNode(triple.Object)
   if err != nil {
    return operator, fmt.Errorf("error parsing member of a WithExceptionOperator: %v", err)
   }
   operator.member = member
  case SPDX_LICENSE_EXCEPTION:
   operator.licenseException, err = parser.getLicenseExceptionFromNode(triple.Object)
   if err != nil {
    return operator, fmt.Errorf("error parsing licenseException of WithExceptionOperator: %v", err)
   }
  default:
   return operator, fmt.Errorf("unknown predicate (%s) for a WithExceptionOperator", triple.Predicate.ID)
  }
 }
 return operator, nil
}

func
 (parser *rdfParser2_2) getOrLaterOperatorFromNode(node *gordfParser.Node) (operator OrLaterOperator, err
error) {
 associatedTriples := rdfwriter.FilterTriples(parser.gordfParserObj.Triples, &node.ID, nil, nil)
 n := len(associatedTriples)
 if n != 2 {
  return operator, fmt.Errorf("orLaterOperator must be associated with exactly one tag. found %v triples", n-1)
 }
 for _, triple := range associatedTriples {
  switch triple.Predicate.ID {
  case RDF_TYPE:
   continue
  case SPDX_MEMBER:
   operator.member, err = parser.getSimpleLicensingInfoFromNode(triple.Object)
   if err != nil {
    return operator, fmt.Errorf("error parsing simpleLicensingInfo of OrLaterOperator: %v", err)
   }
```

```
 default:
  return operator, fmt.Errorf("unknown predicate %s", triple.Predicate.ID)
 }
}
return operator, nil
}

// SpecialLicense is a type of license which is not defined in any of the
// spdx documents, it is a type of license defined for the sake of brevity.
// It can be [NONE|NOASSERTION|LicenseRef-<string>]
func
 (parser *rdfParser2_2) getSpecialLicenseFromNode(node *gordfParser.Node) (lic SpecialLicense, err error) {
 uri := strings.TrimSpace(node.ID)
 switch uri {
 case SPDX_NONE_CAPS, SPDX_NONE_SMALL:
  return SpecialLicense{
   value: NONE,
  }, nil
 case SPDX_NOASSERTION_SMALL, SPDX_NOASSERTION_CAPS:
  return SpecialLicense{
   value: NOASSERTION,
  }, nil
 }

 // the license is neither NONE nor NOASSERTION
 // checking if the license is among the standardLicenses
 licenseAbbreviation := getLastPartOfURI(uri)
 for _, stdLicense := range AllStandardLicenseIDS() {
  if licenseAbbreviation == stdLicense {
   return SpecialLicense{
    value: SpecialLicenseValue(stdLicense),
   }, nil
  }
 }
 return lic, fmt.Errorf("found a custom license uri (%s) without any associated fields", uri)
}

func (parser *rdfParser2_2) getDisjunctiveLicenseSetFromNode(node *gordfParser.Node) (DisjunctiveLicenseSet,
error) {
 licenseSet := DisjunctiveLicenseSet{
  members: []AnyLicenseInfo{},
 }
 for
 _, triple := range parser.nodeToTriples(node) {
  switch triple.Predicate.ID {
  case RDF_TYPE:
   continue
  case SPDX_MEMBER:
```

```
  member, err := parser.getAnyLicenseFromNode(triple.Object)
  if err != nil {
   return licenseSet, fmt.Errorf("error parsing disjunctive license set: %v", err)
  }
  licenseSet.members = append(licenseSet.members, member)
 }
}
return licenseSet, nil
}

func (parser *rdfParser2_2) getConjunctiveLicenseSetFromNode(node *gordfParser.Node) (ConjunctiveLicenseSet,
error) {
 licenseSet := ConjunctiveLicenseSet{
  members: []AnyLicenseInfo{},
 }
 for _, triple := range parser.nodeToTriples(node) {
  switch triple.Predicate.ID {
  case RDF_TYPE:
   continue
  case SPDX_MEMBER:
   member, err := parser.getAnyLicenseFromNode(triple.Object)
   if err != nil {
    return licenseSet, fmt.Errorf("error parsing conjunctive license set: %v", err)
   }
   licenseSet.members = append(licenseSet.members, member)
  default:
   return licenseSet, fmt.Errorf("unknown
 subTag for ConjunctiveLicenseSet: %s", triple.Predicate.ID)
  }
 }
 return licenseSet, nil
}

func (parser *rdfParser2_2) getSimpleLicensingInfoFromTriples(triples []*gordfParser.Triple) (lic
SimpleLicensingInfo, err error) {
 for _, triple := range triples {
  switch triple.Predicate.ID {
  case RDFS_COMMENT:
   lic.comment = triple.Object.ID
  case SPDX_LICENSE_ID:
   lic.licenseID = triple.Object.ID
  case SPDX_NAME:
   lic.name = triple.Object.ID
  case RDFS_SEE_ALSO:
   if !isUriValid(triple.Object.ID) {
    return lic, fmt.Errorf("%s is not a valid uri for seeAlso attribute of a License", triple.Object.ID)
   }
   lic.seeAlso = append(lic.seeAlso, triple.Object.ID)
```

```
 case SPDX_EXAMPLE:
  lic.example = triple.Object.ID
 case RDF_TYPE:
  continue
 default:
  return lic, fmt.Errorf("unknown predicate(%s) for simple licensing info", triple.Predicate)
 }
}
return lic, nil
}

func (parser *rdfParser2_2) getLicenseFromNode(node *gordfParser.Node) (lic License, err error)
{
associatedTriples := rdfwriter.FilterTriples(parser.gordfParserObj.Triples, &node.ID, nil, nil)
var restTriples []*gordfParser.Triple
for _, triple := range associatedTriples {
 value := triple.Object.ID
 switch triple.Predicate.ID {
 case SPDX_IS_OSI_APPROVED:
  lic.isOsiApproved, err = boolFromString(value)
  if err != nil {
   return lic, fmt.Errorf("error parsing isOsiApproved attribute of a License: %v", err)
  }
 case SPDX_LICENSE_TEXT:
  lic.licenseText = value
 case SPDX_STANDARD_LICENSE_HEADER:
  lic.standardLicenseHeader = value
 case SPDX_STANDARD_LICENSE_TEMPLATE:
  lic.standardLicenseTemplate = value
 case SPDX_STANDARD_LICENSE_HEADER_TEMPLATE:
  lic.standardLicenseHeaderTemplate = value
 case SPDX_IS_DEPRECATED_LICENSE_ID:
  lic.isDeprecatedLicenseID, err = boolFromString(value)
  if err != nil {
   return lic, fmt.Errorf("error parsing isDeprecatedLicenseId attribute of a License: %v", err)
  }
 case SPDX_IS_FSF_LIBRE:
  lic.isFsfLibre, err =
boolFromString(value)
  if err != nil {
   return lic, fmt.Errorf("error parsing isFsfLibre attribute of a License: %v", err)
  }
 default:
  restTriples = append(restTriples, triple)
 }
}
lic.SimpleLicensingInfo, err = parser.getSimpleLicensingInfoFromTriples(restTriples)
if err != nil {
```

```
  return lic, fmt.Errorf("error setting simple licensing information of a License: %s", err)
 }
 return lic, nil
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package writer

import (
 "fmt"
 "io"

 spdx "github.com/spdx/tools-golang/spdx/v2/v2_1"
)

func renderOtherLicense(ol *spdx.OtherLicense, w io.Writer) error {
 if ol.LicenseIdentifier != "" {
  fmt.Fprintf(w, "LicenseID: %s\n", ol.LicenseIdentifier)
 }
 if ol.ExtractedText != "" {
  fmt.Fprintf(w, "ExtractedText: %s\n", textify(ol.ExtractedText))
 }
 if ol.LicenseName != "" {
  fmt.Fprintf(w, "LicenseName: %s\n", ol.LicenseName)
 }
 for _, s := range ol.LicenseCrossReferences {
  fmt.Fprintf(w, "LicenseCrossReference: %s\n", s)
 }
 if ol.LicenseComment != "" {
  fmt.Fprintf(w, "LicenseComment: %s\n", textify(ol.LicenseComment))
 }

 fmt.Fprintf(w, "\n")

 return nil
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package writer

import (
 "bytes"
 "testing"

 spdx "github.com/spdx/tools-golang/spdx/v2/v2_2"
)

// ===== Other License section Saver tests =====
```

```
func TestSaverOtherLicenseSavesText(t *testing.T) {
 ol := &spdx.OtherLicense{
  LicenseIdentifier: "LicenseRef-1",
  ExtractedText: `License 1 text
blah blah blah
blah blah blah blah`,
  LicenseName: "License 1",
  LicenseCrossReferences: []string{
   "http://example.com/License1/",
   "http://example.com/License1AnotherURL/",
  },
  LicenseComment: "this is a license comment",
 }

 // what we want to get, as a buffer of bytes
 want := bytes.NewBufferString(`LicenseID: LicenseRef-1
ExtractedText: <text>License 1 text
blah blah blah
blah blah blah blah</text>
LicenseName: License 1
LicenseCrossReference: http://example.com/License1/
LicenseCrossReference: http://example.com/License1AnotherURL/
LicenseComment: this is a license comment

`)

 // render as buffer of bytes
 var got bytes.Buffer
 err
 := renderOtherLicense(ol, &got)
 if err != nil {
  t.Errorf("Expected nil error, got %v", err)
 }

 // check that they match
 c := bytes.Compare(want.Bytes(), got.Bytes())
 if c != 0 {
  t.Errorf("Expected %v, got %v", want.String(), got.String())
 }
}

func TestSaverOtherLicenseOmitsOptionalFieldsIfEmpty(t *testing.T) {
 ol := &spdx.OtherLicense{
  LicenseIdentifier: "LicenseRef-1",
  ExtractedText: `License 1 text
blah blah blah
blah blah blah blah`,
  LicenseName: "License 1",
```

```
 }

 // what we want to get, as a buffer of bytes
 want := bytes.NewBufferString(`LicenseID: LicenseRef-1
ExtractedText: <text>License 1 text
blah blah blah
blah blah blah blah</text>
LicenseName: License 1

`)

 // render as buffer of bytes
 var got bytes.Buffer
 err := renderOtherLicense(ol, &got)
 if err != nil {
  t.Errorf("Expected nil error, got %v", err)
 }

 // check that they match
 c := bytes.Compare(want.Bytes(), got.Bytes())
 if c != 0 {
  t.Errorf("Expected %v, got %v", want.String(),
 got.String())
 }
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later
package reader

import (
 "testing"

 "github.com/spdx/tools-golang/spdx/v2/v2_2"
)

// ===== Parser other license section state change tests =====
func TestParserOLStartsNewOtherLicenseAfterParsingLicenseIDTag(t *testing.T) {
 // create the first other license
 olid1 := "LicenseRef-Lic11"
 olname1 := "License 11"

 parser := tvParser{
  doc:  &v2_2.Document{Packages: []*v2_2.Package{}},
  st:   psOtherLicense,
  pkg:  &v2_2.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*v2_2.File{}},
  file: &v2_2.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
  otherLic: &v2_2.OtherLicense{
   LicenseIdentifier: olid1,
   LicenseName:       olname1,
```

```
 },
}
olic1 := parser.otherLic
parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
parser.pkg.Files = append(parser.pkg.Files, parser.file)
parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

// the Document's OtherLicenses should
have this one only
if parser.doc.OtherLicenses[0] != olic1 {
 t.Errorf("Expected other license %v in OtherLicenses[0], got %v", olic1, parser.doc.OtherLicenses[0])
}
if parser.doc.OtherLicenses[0].LicenseName != olname1 {
 t.Errorf("expected other license name %s in OtherLicenses[0], got %s", olname1,
parser.doc.OtherLicenses[0].LicenseName)
}

// now add a new other license
olid2 := "LicenseRef-22"
olname2 := "License 22"
err := parser.parsePair("LicenseID", olid2)
if err != nil {
 t.Errorf("got error when calling parsePair: %v", err)
}
// state should be correct
if parser.st != psOtherLicense {
 t.Errorf("expected state to be %v, got %v", psOtherLicense, parser.st)
}
// and an other license should be created
if parser.otherLic == nil {
 t.Fatalf("parser didn't create new other license")
}
// also parse the new license's name
err = parser.parsePair("LicenseName", olname2)
if err != nil {
 t.Errorf("got error when calling parsePair: %v", err)
}
// state should
still be correct
if parser.st != psOtherLicense {
 t.Errorf("expected state to be %v, got %v", psOtherLicense, parser.st)
}
// and the other license name should be as expected
if parser.otherLic.LicenseName != olname2 {
 t.Errorf("expected other license name %s, got %s", olname2, parser.otherLic.LicenseName)
}
// and the Document's Other Licenses should be of size 2 and have these two
if len(parser.doc.OtherLicenses) != 2 {
```

```
  t.Fatalf("Expected OtherLicenses to have len 2, got %d", len(parser.doc.OtherLicenses))
 }
 if parser.doc.OtherLicenses[0] != olic1 {
  t.Errorf("Expected other license %v in OtherLicenses[0], got %v", olic1, parser.doc.OtherLicenses[0])
 }
 if parser.doc.OtherLicenses[0].LicenseIdentifier != olid1 {
  t.Errorf("expected other license ID %s in OtherLicenses[0], got %s", olid1,
parser.doc.OtherLicenses[0].LicenseIdentifier)
 }
 if parser.doc.OtherLicenses[0].LicenseName != olname1 {
  t.Errorf("expected other license name %s in OtherLicenses[0], got %s",
 olname1, parser.doc.OtherLicenses[0].LicenseName)
 }
 if parser.doc.OtherLicenses[1] != parser.otherLic {
  t.Errorf("Expected other license %v in OtherLicenses[1], got %v", parser.otherLic, parser.doc.OtherLicenses[1])
 }
 if parser.doc.OtherLicenses[1].LicenseIdentifier != olid2 {
  t.Errorf("expected other license ID %s in OtherLicenses[1], got %s", olid2,
parser.doc.OtherLicenses[1].LicenseIdentifier)
 }
 if parser.doc.OtherLicenses[1].LicenseName != olname2 {
  t.Errorf("expected other license name %s in OtherLicenses[1], got %s", olname2,
parser.doc.OtherLicenses[1].LicenseName)
 }
}

func TestParserOLMovesToReviewAfterParsingReviewerTag(t *testing.T) {
 parser := tvParser{
  doc:  &v2_2.Document{Packages: []*v2_2.Package{}},
  st:   psOtherLicense,
  pkg:  &v2_2.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*v2_2.File{}},
  file: &v2_2.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
 }
 parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
 parser.pkg.Files
 = append(parser.pkg.Files, parser.file)
 parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

 err := parser.parsePair("Reviewer", "Person: John Doe")
 if err != nil {
  t.Errorf("got error when calling parsePair: %v", err)
 }
 if parser.st != psReview {
  t.Errorf("expected state to be %v, got %v", psReview, parser.st)
 }
}

func TestParserOtherLicenseStaysAfterParsingRelationshipTags(t *testing.T) {
```

```
parser := tvParser{
 doc:  &v2_2.Document{Packages: []*v2_2.Package{}},
 st:   psOtherLicense,
 pkg:  &v2_2.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*v2_2.File{}},
 file: &v2_2.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
 otherLic: &v2_2.OtherLicense{
  LicenseIdentifier: "LicenseRef-whatever",
  LicenseName:       "the whatever license",
 },
}
parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
parser.pkg.Files = append(parser.pkg.Files, parser.file)
parser.doc.OtherLicenses = append(parser.doc.OtherLicenses,
parser.otherLic)

err := parser.parsePair("Relationship", "SPDXRef-blah CONTAINS SPDXRef-blah-else")
if err != nil {
 t.Errorf("got error when calling parsePair: %v", err)
}
// state should remain unchanged
if parser.st != psOtherLicense {
 t.Errorf("expected state to be %v, got %v", psOtherLicense, parser.st)
}
// and the relationship should be in the Document's Relationships
if len(parser.doc.Relationships) != 1 {
 t.Fatalf("expected doc.Relationships to have len 1, got %d", len(parser.doc.Relationships))
}
deID := parser.doc.Relationships[0].RefA
if deID.DocumentRefID != "" || deID.ElementRefID != "blah" {
 t.Errorf("expected RefA to be %s, got %s", "blah", parser.doc.Relationships[0].RefA)
}

err = parser.parsePair("RelationshipComment", "blah")
if err != nil {
 t.Errorf("got error when calling parsePair: %v", err)
}
// state should still remain unchanged
if parser.st != psOtherLicense {
 t.Errorf("expected state to be %v, got %v", psOtherLicense,
parser.st)
}
}

func TestParserOtherLicenseStaysAfterParsingAnnotationTags(t *testing.T) {
 parser := tvParser{
  doc:  &v2_2.Document{Packages: []*v2_2.Package{}},
  st:   psOtherLicense,
  pkg:  &v2_2.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*v2_2.File{}},
```

```
 file: &v2_2.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
 otherLic: &v2_2.OtherLicense{
  LicenseIdentifier: "LicenseRef-whatever",
  LicenseName:       "the whatever license",
 },
}
parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
parser.pkg.Files = append(parser.pkg.Files, parser.file)
parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

err := parser.parsePair("Annotator", "Person: John Doe ()")
if err != nil {
 t.Errorf("got error when calling parsePair: %v", err)
}
if parser.st != psOtherLicense {
 t.Errorf("parser is in state %v, expected %v", parser.st, psOtherLicense)
}

err = parser.parsePair("AnnotationDate", "2018-09-15T00:36:00Z")
if
err != nil {
 t.Errorf("got error when calling parsePair: %v", err)
}
if parser.st != psOtherLicense {
 t.Errorf("parser is in state %v, expected %v", parser.st, psOtherLicense)
}

err = parser.parsePair("AnnotationType", "REVIEW")
if err != nil {
 t.Errorf("got error when calling parsePair: %v", err)
}
if parser.st != psOtherLicense {
 t.Errorf("parser is in state %v, expected %v", parser.st, psOtherLicense)
}

err = parser.parsePair("SPDXREF", "SPDXRef-45")
if err != nil {
 t.Errorf("got error when calling parsePair: %v", err)
}
if parser.st != psOtherLicense {
 t.Errorf("parser is in state %v, expected %v", parser.st, psOtherLicense)
}

err = parser.parsePair("AnnotationComment", "i guess i had something to say about this particular file")
if err != nil {
 t.Errorf("got error when calling parsePair: %v", err)
}
if parser.st != psOtherLicense {
```

```
 t.Errorf("parser is in state %v, expected %v", parser.st, psOtherLicense)
 }

 // and the annotation
 should be in the Document's Annotations
 if len(parser.doc.Annotations) != 1 {
  t.Fatalf("expected doc.Annotations to have len 1, got %d", len(parser.doc.Annotations))
 }
 if parser.doc.Annotations[0].Annotator.Annotator != "John Doe ()" {
  t.Errorf("expected Annotator to be %s, got %s", "John Doe ()", parser.doc.Annotations[0].Annotator)
 }
}

func TestParserOLFailsAfterParsingOtherSectionTags(t *testing.T) {
 parser := tvParser{
  doc:  &v2_2.Document{Packages: []*v2_2.Package{}},
  st:   psOtherLicense,
  pkg:  &v2_2.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*v2_2.File{}},
  file: &v2_2.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
  otherLic: &v2_2.OtherLicense{
   LicenseIdentifier: "LicenseRef-Lic11",
   LicenseName:       "License 11",
  },
 }
 parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
 parser.pkg.Files = append(parser.pkg.Files, parser.file)
 parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

 //
 can't go back to old sections
 err := parser.parsePair("SPDXVersion", "SPDX-2.2")
 if err == nil {
  t.Errorf("expected error when calling parsePair, got nil")
 }
 err = parser.parsePair("PackageName", "whatever")
 if err == nil {
  t.Errorf("expected error when calling parsePair, got nil")
 }
 err = parser.parsePair("FileName", "whatever")
 if err == nil {
  t.Errorf("expected error when calling parsePair, got nil")
 }
}

// ===== Other License data section tests =====
func TestParserCanParseOtherLicenseTags(t *testing.T) {
 parser := tvParser{
  doc:  &v2_2.Document{Packages: []*v2_2.Package{}},
```

```
 st:   psOtherLicense,
 pkg:  &v2_2.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*v2_2.File{}},
 file: &v2_2.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
}
parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
parser.pkg.Files = append(parser.pkg.Files, parser.file)
parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

//
License Identifier
err := parser.parsePairFromOtherLicense("LicenseID", "LicenseRef-Lic11")
if err != nil {
 t.Errorf("expected nil error, got %v", err)
}
if parser.otherLic.LicenseIdentifier != "LicenseRef-Lic11" {
 t.Errorf("got %v for LicenseID", parser.otherLic.LicenseIdentifier)
}

// Extracted Text
err = parser.parsePairFromOtherLicense("ExtractedText", "You are permitted to do anything with the software,
hooray!")
if err != nil {
 t.Errorf("expected nil error, got %v", err)
}
if parser.otherLic.ExtractedText != "You are permitted to do anything with the software, hooray!" {
 t.Errorf("got %v for ExtractedText", parser.otherLic.ExtractedText)
}

// License Name
err = parser.parsePairFromOtherLicense("LicenseName", "License 11")
if err != nil {
 t.Errorf("expected nil error, got %v", err)
}
if parser.otherLic.LicenseName != "License 11" {
 t.Errorf("got %v for LicenseName", parser.otherLic.LicenseName)
}

// License Cross Reference
crossRefs := []string{
 "https://example.com/1",
 "https://example.com/2",
 "https://example.com/3",
}
for
_, cr := range crossRefs {
 err = parser.parsePairFromOtherLicense("LicenseCrossReference", cr)
 if err != nil {
  t.Errorf("expected nil error, got %v", err)
```

```
  }
 }
 for _, refWant := range crossRefs {
  flagFound := false
  for _, refCheck := range parser.otherLic.LicenseCrossReferences {
   if refWant == refCheck {
    flagFound = true
   }
  }
  if flagFound == false {
   t.Errorf("didn't find %s in LicenseCrossReferences", refWant)
  }
 }
 if len(crossRefs) != len(parser.otherLic.LicenseCrossReferences) {
  t.Errorf("expected %d types in LicenseCrossReferences, got %d", len(crossRefs),
   len(parser.otherLic.LicenseCrossReferences))
 }

 // License Comment
 err = parser.parsePairFromOtherLicense("LicenseComment", "this is a comment")
 if err != nil {
  t.Errorf("expected nil error, got %v", err)
 }
 if parser.otherLic.LicenseComment != "this is a comment" {
  t.Errorf("got %v for LicenseComment",
 parser.otherLic.LicenseComment)
 }
}

func TestParserOLUnknownTagFails(t *testing.T) {
 parser := tvParser{
  doc:  &v2_2.Document{Packages: []*v2_2.Package{}},
  st:   psOtherLicense,
  pkg:  &v2_2.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*v2_2.File{}},
  file: &v2_2.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
 }
 parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
 parser.pkg.Files = append(parser.pkg.Files, parser.file)
 parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

 err := parser.parsePairFromOtherLicense("blah", "something")
 if err == nil {
  t.Errorf("expected error from parsing unknown tag")
 }
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package reader
```

```
import (
 "fmt"

 spdx "github.com/spdx/tools-golang/spdx/v2/v2_3"
)

func (parser *tvParser) parsePairFromOtherLicense(tag string, value string) error {
 switch tag {
 // tag for creating new other license section
 case "LicenseID":
  parser.otherLic = &spdx.OtherLicense{}
  parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)
  parser.otherLic.LicenseIdentifier = value
 case "ExtractedText":
  parser.otherLic.ExtractedText = value
 case "LicenseName":
  parser.otherLic.LicenseName = value
 case "LicenseCrossReference":
  parser.otherLic.LicenseCrossReferences = append(parser.otherLic.LicenseCrossReferences, value)
 case "LicenseComment":
  parser.otherLic.LicenseComment = value
 // for relationship tags, pass along but don't change state
 case "Relationship":
  parser.rln = &spdx.Relationship{}
  parser.doc.Relationships = append(parser.doc.Relationships, parser.rln)
  return parser.parsePairForRelationship(tag,
 value)
 case "RelationshipComment":
  return parser.parsePairForRelationship(tag, value)
 // for annotation tags, pass along but don't change state
 case "Annotator":
  parser.ann = &spdx.Annotation{}
  parser.doc.Annotations = append(parser.doc.Annotations, parser.ann)
  return parser.parsePairForAnnotation(tag, value)
 case "AnnotationDate":
  return parser.parsePairForAnnotation(tag, value)
 case "AnnotationType":
  return parser.parsePairForAnnotation(tag, value)
 case "SPDXREF":
  return parser.parsePairForAnnotation(tag, value)
 case "AnnotationComment":
  return parser.parsePairForAnnotation(tag, value)
 // tag for going on to review section (DEPRECATED)
 case "Reviewer":
  parser.st = psReview
  return parser.parsePairFromReview(tag, value)
 default:
```

```
  return fmt.Errorf("received unknown tag %v in OtherLicense section", tag)
 }

 return nil
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package reader

import (
 "fmt"

 "github.com/spdx/tools-golang/spdx/v2/v2_1"
)

func (parser *tvParser) parsePairFromOtherLicense(tag string, value string) error {
 switch tag {
 // tag for creating new other license section
 case "LicenseID":
  parser.otherLic = &v2_1.OtherLicense{}
  parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)
  parser.otherLic.LicenseIdentifier = value
 case "ExtractedText":
  parser.otherLic.ExtractedText = value
 case "LicenseName":
  parser.otherLic.LicenseName = value
 case "LicenseCrossReference":
  parser.otherLic.LicenseCrossReferences = append(parser.otherLic.LicenseCrossReferences, value)
 case "LicenseComment":
  parser.otherLic.LicenseComment = value
 // for relationship tags, pass along but don't change state
 case "Relationship":
  parser.rln = &v2_1.Relationship{}
  parser.doc.Relationships = append(parser.doc.Relationships, parser.rln)
  return parser.parsePairForRelationship(tag,
 value)
 case "RelationshipComment":
  return parser.parsePairForRelationship(tag, value)
 // for annotation tags, pass along but don't change state
 case "Annotator":
  parser.ann = &v2_1.Annotation{}
  parser.doc.Annotations = append(parser.doc.Annotations, parser.ann)
  return parser.parsePairForAnnotation(tag, value)
 case "AnnotationDate":
  return parser.parsePairForAnnotation(tag, value)
 case "AnnotationType":
  return parser.parsePairForAnnotation(tag, value)
 case "SPDXREF":
```

```
 return parser.parsePairForAnnotation(tag, value)
case "AnnotationComment":
 return parser.parsePairForAnnotation(tag, value)
// tag for going on to review section (DEPRECATED)
case "Reviewer":
 parser.st = psReview
 return parser.parsePairFromReview(tag, value)
default:
 return fmt.Errorf("received unknown tag %v in OtherLicense section", tag)
}

return nil
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package reader

import (
 "reflect"
 "sort"
 "testing"

 gordfParser "github.com/spdx/gordf/rdfloader/parser"
)

func Test_rdfParser2_3_getAnyLicenseFromNode(t *testing.T) {
 // since this function is a mux, we just have to make sure that with each
 // type of input, it is able to redirect the request to an appropriate
 // license getter.

 // TestCase 1: input node is just a node string without any associated
 //      triple (either a NONE|NOASSERTION) because for other case,
 //      the license should've been associated with other triples
 parser, _ := parserFromBodyContent(``)
 inputNode := &gordfParser.Node{
  NodeType: gordfParser.IRI,
  ID:       NS_SPDX + "NONE",
 }
 lic, err := parser.getAnyLicenseFromNode(inputNode)
 if err != nil {
  t.Errorf("error parsing a valid license input: %v", err)
 }
 // checking if the return type is a SpecialLicense
 switch lic.(type) {
 case SpecialLicense:
 default:
  t.Errorf("expected
```

```
license to be of type SpecialLicense, found %v", reflect.TypeOf(lic))
}

// TestCase 2: DisjunctiveLicenseSet:
parser, _ = parserFromBodyContent(`
 <spdx:DisjunctiveLicenseSet>
  <spdx:member rdf:resource="http://spdx.org/licenses/Nokia"/>
  <spdx:member rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
 </spdx:DisjunctiveLicenseSet>
`)
inputNode = parser.gordfParserObj.Triples[0].Subject
lic, err = parser.getAnyLicenseFromNode(inputNode)
if err != nil {
 t.Errorf("error parsing a valid license input: %v", err)
}
// checking if the return type is a DisjunctiveLicenseSet
switch lic.(type) {
case DisjunctiveLicenseSet:
default:
 t.Errorf("expected license to be of type DisjunctiveLicenseSet, found %v", reflect.TypeOf(lic))
}

// TestCase 3: ConjunctiveLicenseSet:
parser, _ = parserFromBodyContent(`
 <spdx:ConjunctiveLicenseSet>
  <spdx:member rdf:resource="http://spdx.org/licenses/Nokia"/>
  <spdx:member rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
 </spdx:ConjunctiveLicenseSet>
`)
inputNode
= parser.gordfParserObj.Triples[0].Subject
lic, err = parser.getAnyLicenseFromNode(inputNode)
if err != nil {
 t.Errorf("error parsing a valid license input: %v", err)
}
// checking if the return type is a ConjunctiveLicenseSet
switch lic.(type) {
case ConjunctiveLicenseSet:
default:
 t.Errorf("expected license to be of type ConjunctiveLicenseSet, found %v", reflect.TypeOf(lic))
}

// TestCase 4: ExtractedLicensingInfo
parser, _ = parserFromBodyContent(`
 <spdx:ExtractedLicensingInfo rdf:about="http://spdx.dev/spdx.rdf#LicenseRef-Freeware">
  <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
  <spdx:name>freeware</spdx:name>
  <spdx:extractedText><![CDATA[...]]></spdx:extractedText>
```

```
   </spdx:ExtractedLicensingInfo>
`)
inputNode = parser.gordfParserObj.Triples[0].Subject
lic, err = parser.getAnyLicenseFromNode(inputNode)
if err != nil {
 t.Errorf("error parsing a valid license input: %v", err)
}
// checking if the return
type is a ExtractedLicensingInfo
switch lic.(type) {
case ExtractedLicensingInfo:
default:
 t.Errorf("expected license to be of type ExtractedLicensingInfo, found %v", reflect.TypeOf(lic))
}

// TestCase 4: ExtractedLicensingInfo
parser, _ = parserFromBodyContent(`
 <spdx:ExtractedLicensingInfo rdf:about="http://spdx.dev/spdx.rdf#LicenseRef-Freeware">
  <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
  <spdx:name>freeware</spdx:name>
  <spdx:extractedText><![CDATA[...]]></spdx:extractedText>
   </spdx:ExtractedLicensingInfo>
`)
inputNode = parser.gordfParserObj.Triples[0].Subject
lic, err = parser.getAnyLicenseFromNode(inputNode)
if err != nil {
 t.Errorf("error parsing a valid license input: %v", err)
}
// checking if the return type is a ExtractedLicensingInfo
switch lic.(type) {
case ExtractedLicensingInfo:
default:
 t.Errorf("expected license to be of type ExtractedLicensingInfo, found %v", reflect.TypeOf(lic))
}

// TestCase 5: License
parser, _ = parserFromBodyContent(`
 <spdx:License
rdf:about="http://spdx.org/licenses/Apache-2.0">
   <spdx:standardLicenseTemplate>&lt;&gt; Apache License Version 2.0, January 2004
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or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of
the outstanding shares, or (iii) beneficial ownership
```

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```
  <rdfs:seeAlso>http://www.apache.org/licenses/LICENSE-2.0</rdfs:seeAlso>
  <spdx:name>Apache License 2.0</spdx:name>
  <spdx:licenseId>Apache-2.0</spdx:licenseId>
  <spdx:isOsiApproved>true</spdx:isOsiApproved>
  <rdfs:seeAlso>http://www.opensource.org/licenses/Apache-2.0</rdfs:seeAlso>
  <spdx:licenseText>...</spdx:licenseText>
  <spdx:standardLicenseHeader>...</spdx:standardLicenseHeader>
  </spdx:License>
`)
```

```
inputNode = parser.gordfParserObj.Triples[0].Subject
lic, err = parser.getAnyLicenseFromNode(inputNode)
if
err != nil {
 t.Errorf("error parsing a valid license input: %v", err)
}
// checking if the return type is a License
switch lic.(type) {
case License:
default:
 t.Errorf("expected license to be of type License, found %v", reflect.TypeOf(lic))
}

// TestCase 5: WithExceptionOperator
parser, _ = parserFromBodyContent(`
 <spdx:WithExceptionOperator>
  <spdx:licenseException>
   <spdx:LicenseException rdf:nodeID="A1">
    <spdx:example></spdx:example>
    <spdx:licenseExceptionId>Libtool-exception</spdx:licenseExceptionId>
    <rdfs:comment></rdfs:comment>
   </spdx:LicenseException>
  </spdx:licenseException>
  <spdx:member rdf:resource="http://spdx.org/licenses/GPL-2.0-or-later"/>
 </spdx:WithExceptionOperator>
`)
inputNode = parser.gordfParserObj.Triples[0].Subject
lic, err = parser.getAnyLicenseFromNode(inputNode)
if err != nil {
 t.Errorf("error parsing a valid license input: %v", err)
}
// checking if the return type is a WithExceptionOperator
switch
lic.(type) {
case WithExceptionOperator:
default:
 t.Errorf("expected license to be of type WithExceptionOperator, found %v", reflect.TypeOf(lic))
}

// TestCase 6: OrLaterOperator
parser, _ = parserFromBodyContent(`
 <spdx:OrLaterOperator>
  <spdx:member>
   <spdx:SimpleLicensingInfo>
    <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
    <spdx:name>freeware</spdx:name>
   </spdx:SimpleLicensingInfo>
  </spdx:member>
```

```
 </spdx:OrLaterOperator>
`)
inputNode = parser.gordfParserObj.Triples[0].Subject
lic, err = parser.getAnyLicenseFromNode(inputNode)
if err != nil {
 t.Errorf("error parsing a valid license input: %v", err)
}
// checking if the return type is a OrLaterOperator
switch lic.(type) {
case OrLaterOperator:
default:
 t.Errorf("expected license to be of type OrLaterOperator, found %v", reflect.TypeOf(lic))
}

// TestCase 7: checking if an unknown license raises an error.
parser, _ = parserFromBodyContent(`
 <spdx:UnknownLicense>
  <spdx:unknownTag
/>
 </spdx:UnknownLicense>
`)
node := parser.gordfParserObj.Triples[0].Subject
_, err = parser.getAnyLicenseFromNode(node)
t.Log(err)
if err == nil {
 t.Errorf("should've raised an error for invalid input")
}

// TestCase 8: cyclic dependent license must raise an error.
parser, _ = parserFromBodyContent(`
 <spdx:ConjunctiveLicenseSet rdf:about="#SPDXRef-RecursiveLicense">
  <spdx:member rdf:resource="http://spdx.org/licenses/GPL-2.0-or-later"/>
  <spdx:member>
   <spdx:ConjunctiveLicenseSet rdf:about="#SPDXRef-RecursiveLicense">
    <spdx:member rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
    <spdx:member rdf:resource="http://spdx.org/spdxdocs/spdx-example-444504E0-4F89-41D3-9A0C-
0305E82C3301#SPDXRef-RecursiveLicense"/>
   </spdx:ConjunctiveLicenseSet>
  </spdx:member>
 </spdx:ConjunctiveLicenseSet>
`)
node = parser.gordfParserObj.Triples[0].Subject
_, err = parser.getAnyLicenseFromNode(node)
if err == nil {
 t.Errorf("expected an error due to cyclic
dependent license. found %v", err)
}
}
```

```
func Test_rdfParser2_3_getConjunctiveLicenseSetFromNode(t *testing.T) {
 var parser *rdfParser2_3
 var err error
 var licenseNode *gordfParser.Node
 var license ConjunctiveLicenseSet

 // TestCase 1: invalid license member
 parser, _ = parserFromBodyContent(`
  <spdx:ConjunctiveLicenseSet>
   <spdx:member rdf:resource="http://spdx.org/licenses/Unknown"/>
   <spdx:member rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
  </spdx:ConjunctiveLicenseSet>
 `)
 licenseNode = parser.gordfParserObj.Triples[0].Subject
 _, err = parser.getConjunctiveLicenseSetFromNode(licenseNode)
 if err == nil {
  t.Errorf("expected an error saying invalid license member, found <nil>")
 }

 // TestCase 2: invalid predicate in the licenseSet.
 parser, _ = parserFromBodyContent(`
  <spdx:ConjunctiveLicenseSet>
   <spdx:member rdf:resource="http://spdx.org/licenses/CC0-1.0"/>
   <spdx:member rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
   <spdx:unknownTag />
  </spdx:ConjunctiveLicenseSet>
 `)
 licenseNode
 = parser.gordfParserObj.Triples[0].Subject
 _, err = parser.getConjunctiveLicenseSetFromNode(licenseNode)
 if err == nil {
  t.Errorf("expected an error saying invalid predicate found")
 }

 // TestCase 3: valid example.
 parser, _ = parserFromBodyContent(`
  <spdx:ConjunctiveLicenseSet>
   <spdx:member rdf:resource="http://spdx.org/licenses/Nokia"/>
   <spdx:member rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
  </spdx:ConjunctiveLicenseSet>
 `)
 licenseNode = parser.gordfParserObj.Triples[0].Subject
 license, err = parser.getConjunctiveLicenseSetFromNode(licenseNode)
 if err != nil {
  t.Errorf("unexpected error parsing licenseSet: %v", err)
 }
 nMembers := len(license.members)
```

```
 if nMembers != 2 {
  t.Errorf("expected licenseSet to have 2 members, found %d", nMembers)
 }
 licenseMembers := mapLicensesToStrings(license.members)
 expectedLicenseMembers := []string{"LGPL-2.0", "Nokia"}
 sort.Strings(licenseMembers)
 if !reflect.DeepEqual(licenseMembers,
 expectedLicenseMembers) {
  t.Errorf("expected %v, found %v", expectedLicenseMembers, licenseMembers)
 }
}

func Test_rdfParser2_3_getDisjunctiveLicenseSetFromNode(t *testing.T) {
 var parser *rdfParser2_3
 var err error
 var licenseNode *gordfParser.Node
 var license DisjunctiveLicenseSet

 // TestCase 1: invalid license member
 parser, _ = parserFromBodyContent(`
  <spdx:DisjunctiveLicenseSet>
   <spdx:member rdf:resource="http://spdx.org/licenses/Unknown"/>
   <spdx:member rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
  </spdx:DisjunctiveLicenseSet>
 `)
 licenseNode = parser.gordfParserObj.Triples[0].Subject
 _, err = parser.getDisjunctiveLicenseSetFromNode(licenseNode)
 if err == nil {
  t.Errorf("expected an error saying invalid license member, found <nil>")
 }

 // TestCase 2: invalid predicate in the licenseSet.
 parser, _ = parserFromBodyContent(`
  <spdx:DisjunctiveLicenseSet>
   <spdx:member rdf:resource="http://spdx.org/licenses/Unknown"/>
   <spdx:member
 rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
   <spdx:unknownTag />
  </spdx:DisjunctiveLicenseSet>
 `)
 licenseNode = parser.gordfParserObj.Triples[0].Subject
 _, err = parser.getDisjunctiveLicenseSetFromNode(licenseNode)
 if err == nil {
  t.Errorf("expected an error saying invalid predicate found")
 }

 // TestCase 3: valid example.
 parser, _ = parserFromBodyContent(`
```

```
 <spdx:DisjunctiveLicenseSet>
  <spdx:member rdf:resource="http://spdx.org/licenses/Nokia"/>
  <spdx:member rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
 </spdx:DisjunctiveLicenseSet>
`)
licenseNode = parser.gordfParserObj.Triples[0].Subject
license, err = parser.getDisjunctiveLicenseSetFromNode(licenseNode)
if err != nil {
 t.Errorf("unexpected error parsing licenseSet: %v", err)
}
nMembers := len(license.members)
if nMembers != 2 {
 t.Errorf("expected licenseSet to have 2 members, found %d", nMembers)
}
licenseMembers := mapLicensesToStrings(license.members)
expectedLicenseMembers := []string{"LGPL-2.0",
"Nokia"}
sort.Strings(licenseMembers)
if !reflect.DeepEqual(licenseMembers, expectedLicenseMembers) {
 t.Errorf("expected %v, found %v", expectedLicenseMembers, licenseMembers)
}
}

func Test_rdfParser2_3_getLicenseExceptionFromNode(t *testing.T) {
 var licenseException LicenseException
 var err error
 var node *gordfParser.Node
 var parser *rdfParser2_3

 // TestCase 1: invalid value for rdf:seeAlso
 parser, _ = parserFromBodyContent(`
  <spdx:LicenseException>
   <rdfs:seeAlso>see-also</rdfs:seeAlso>
   <spdx:example></spdx:example>
   <spdx:licenseExceptionId>Libtool-exception</spdx:licenseExceptionId>
   <rdfs:comment></rdfs:comment>
  </spdx:LicenseException>
 `)
 node = parser.gordfParserObj.Triples[0].Subject
 _, err = parser.getLicenseExceptionFromNode(node)
 if err == nil {
  t.Errorf("should've raised an error due to invalid uri for rdfs:seeAlso")
 }

 // TestCase 2: invalid predicate for licenseException
 // TestCase 1: invalid value for rdf:seeAlso
 parser,
```

```
_ = parserFromBodyContent(`
 <spdx:LicenseException>
  <spdx:example></spdx:example>
  <spdx:licenseExceptionId>Libtool-exception</spdx:licenseExceptionId>
  <rdfs:unknown></rdfs:unknown>
 </spdx:LicenseException>
`)
node = parser.gordfParserObj.Triples[0].Subject
_, err = parser.getLicenseExceptionFromNode(node)
if err == nil {
 t.Errorf("should've raised an error due to invalid predicate")
}

// TestCase 3: everything valid
// TestCase 1: invalid value for rdf:seeAlso
parser, _ = parserFromBodyContent(`
 <spdx:LicenseException>
  <rdfs:seeAlso rdf:resource="http://www.opensource.org/licenses/GPL-3.0"/>
  <spdx:example>no example</spdx:example>
  <spdx:licenseExceptionId>Libtool-exception</spdx:licenseExceptionId>
  <rdfs:comment>no comments</rdfs:comment>
  <spdx:licenseExceptionText>text</spdx:licenseExceptionText>
  <spdx:name>name</spdx:name>
 </spdx:LicenseException>
`)
node = parser.gordfParserObj.Triples[0].Subject
licenseException, err = parser.getLicenseExceptionFromNode(node)
if
err != nil {
 t.Fatalf("unexpected error while parsing a valid licenseException")
}
expectedCrossReference := "http://www.opensource.org/licenses/GPL-3.0"
if licenseException.seeAlso != expectedCrossReference {
 t.Errorf("expected: %s, found: %s", expectedCrossReference, licenseException.seeAlso)
}
expectedExample := "no example"
if licenseException.example != expectedExample {
 t.Errorf("expected: %s, got: %s", expectedExample, licenseException.example)
}
if licenseException.licenseExceptionId != "Libtool-exception" {
 t.Errorf("expected: %s, got: %s", "Libtool-exception", licenseException.licenseExceptionId)
}
if licenseException.comment != "no comments" {
 t.Errorf("expected: %s, got: %s", "no comments", licenseException.comment)
}
if licenseException.licenseExceptionText != "text" {
 t.Errorf("expected: '%s', got: '%s'", "text", licenseException.licenseExceptionText)
}
```

```
 if licenseException.name != "name" {
  t.Errorf("expected:
 '%s', got: '%s'", "name", licenseException.name)
 }
}

func Test_rdfParser2_3_getLicenseFromNode(t *testing.T) {
 var parser *rdfParser2_3
 var node *gordfParser.Node
 var license License
 var err error

 // TestCase 1: isOsiApproved is not a valid boolean
 parser, _ = parserFromBodyContent(`
  <spdx:License>
   <spdx:isOsiApproved>no</spdx:isOsiApproved>
  </spdx:License>
 `)
 node = parser.gordfParserObj.Triples[0].Subject
 license, err = parser.getLicenseFromNode(node)
 if err == nil {
  t.Errorf("expected function to raise an error stating isOsiApproved should be a valid boolean type")
 }

 // TestCase 2: rdf:seeAlso not a valid uri must raise an error
 parser, _ = parserFromBodyContent(`
  <spdx:License>
   <rdfs:seeAlso>uri</rdfs:seeAlso>
  </spdx:License>
 `)
 node = parser.gordfParserObj.Triples[0].Subject
 license, err = parser.getLicenseFromNode(node)
 if err == nil {
  t.Errorf("expected function to raise an error stating invalid uri for rdfs:seeAlso")
 }

 // TestCase 3:
 isDeprecatedLicenseId is not a valid boolean
 parser, _ = parserFromBodyContent(`
  <spdx:License>
   <spdx:isDeprecatedLicenseId>yes</spdx:isDeprecatedLicenseId>
  </spdx:License>
 `)
 node = parser.gordfParserObj.Triples[0].Subject
 license, err = parser.getLicenseFromNode(node)
 if err == nil {
  t.Errorf("expected function to raise an error stating isDeprecatedLicenseId should be a valid boolean type")
 }
```

```
// TestCase 4: isFsfLibre is not a valid boolean
parser, _ = parserFromBodyContent(`
 <spdx:License>
  <spdx:isFsfLibre>no</spdx:isFsfLibre>
 </spdx:License>
`)
node = parser.gordfParserObj.Triples[0].Subject
license, err = parser.getLicenseFromNode(node)
if err == nil {
 t.Errorf("expected function to raise an error stating isFsfLibre should be a valid boolean type")
}

// TestCase 5: invalid triple for License:
parser, _ = parserFromBodyContent(`
 <spdx:License>
  <spdx:unknown />
 </spdx:License>
`)
node = parser.gordfParserObj.Triples[0].Subject
license,
err = parser.getLicenseFromNode(node)
if err == nil {
 t.Errorf("invalid predicate should've raised an error, got <nil>")
}

// TestCase 5: everything valid:
parser, _ = parserFromBodyContent(`
 <spdx:License rdf:about="http://spdx.org/licenses/GPL-3.0-or-later">
  <rdfs:seeAlso>http://www.opensource.org/licenses/GPL-3.0</rdfs:seeAlso>
  <spdx:isOsiApproved>true</spdx:isOsiApproved>
  <spdx:licenseText>GNU GENERAL PUBLIC LICENSE Version 3, 29 June 2007</spdx:licenseText>
  <spdx:name>GNU General Public License v3.0 or later</spdx:name>
  <spdx:standardLicenseHeaderTemplate>...</spdx:standardLicenseHeaderTemplate>
  <spdx:licenseId>GPL-3.0-or-later</spdx:licenseId>
  <rdfs:comment>This license was released: 29 June 2007</rdfs:comment>
  <spdx:isFsfLibre>true</spdx:isFsfLibre>
  <spdx:standardLicenseHeader>...</spdx:standardLicenseHeader>
  <spdx:standardLicenseTemplate>....</spdx:standardLicenseTemplate>
 </spdx:License>
`)
node = parser.gordfParserObj.Triples[0].Subject
license,
err = parser.getLicenseFromNode(node)
if err != nil {
 t.Errorf("error parsing a valid input: %v", err)
}
expectedSeeAlso := "http://www.opensource.org/licenses/GPL-3.0"
```

```
 if len(license.seeAlso) != 1 {
  t.Fatalf("expected seeAlso to have 1 element, got %d", len(license.seeAlso))
 }
 if license.seeAlso[len(license.seeAlso)-1] != expectedSeeAlso {
  t.Errorf("expected %s, got %s", expectedSeeAlso, license.seeAlso)
 }
 if license.isOsiApproved != true {
  t.Errorf("expected %t, got %t", true, license.isOsiApproved)
 }
 expectedLicenseText := "GNU GENERAL PUBLIC LICENSE Version 3, 29 June 2007"
 if license.licenseText != expectedLicenseText {
  t.Errorf("expected %s, got %s", expectedSeeAlso, license.licenseText)
 }
 expectedName := "GNU General Public License v3.0 or later"
 if license.name != expectedName {
  t.Errorf("expected %s, got %s", expectedName, license.name)
 }
 expectedstdLicHeader := "..."
 if license.standardLicenseHeader != expectedstdLicHeader {
  t.Errorf("expected
 %s, got %s", expectedstdLicHeader, license.standardLicenseHeader)
 }
 expectedLicenseId := "GPL-3.0-or-later"
 if expectedLicenseId != license.licenseID {
  t.Errorf("expected %s, got %s", expectedLicenseId, license.licenseID)
 }
 expectedLicenseComment := "This license was released: 29 June 2007"
 if expectedLicenseComment != license.comment {
  t.Errorf("expected %s, got %s", expectedLicenseComment, license.comment)
 }
 expectedstdLicTemplate := "..."
 if license.standardLicenseHeader != expectedstdLicTemplate {
  t.Errorf("expected %s, got %s", expectedstdLicTemplate, license.standardLicenseTemplate)
 }
 expectedstdLicHeaderTemplate := "..."
 if license.standardLicenseHeaderTemplate != expectedstdLicHeaderTemplate {
  t.Errorf("expected %s, got %s", expectedstdLicHeaderTemplate, license.standardLicenseHeaderTemplate)
 }
 if license.isFsfLibre != true {
  t.Errorf("expected %t, got %t", true, license.isFsfLibre)
 }
}

func Test_rdfParser2_3_getOrLaterOperatorFromNode(t *testing.T)
 {
 var parser *rdfParser2_3
 var node *gordfParser.Node
 var err error
```

```
// TestCase 1: more than one member in the OrLaterOperator tag must raise an error
parser, _ = parserFromBodyContent(`
 <spdx:OrLaterOperator>
  <spdx:member>
   <spdx:SimpleLicensingInfo>
    <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
    <spdx:name>freeware</spdx:name>
   </spdx:SimpleLicensingInfo>
  </spdx:member>
  <spdx:member rdf:resource="http://spdx.org/licenses/Nokia"/>
 </spdx:OrLaterOperator>
`)
node = parser.gordfParserObj.Triples[0].Subject
_, err = parser.getOrLaterOperatorFromNode(node)
if err == nil {
 t.Error("expected an error due to more than one members, got <nil>")
}

// TestCase 2: Invalid predicate must raise an error
parser, _ = parserFromBodyContent(`
 <spdx:OrLaterOperator>
  <spdx:members>
   <spdx:SimpleLicensingInfo>
    <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
    <spdx:name>freeware</spdx:name>
   </spdx:SimpleLicensingInfo>
  </spdx:members>
 </spdx:OrLaterOperator>
`)
node
= parser.gordfParserObj.Triples[0].Subject
_, err = parser.getOrLaterOperatorFromNode(node)
if err == nil {
 t.Error("expected an error due to invalid predicate, got <nil>")
}

// TestCase 5: invalid member
parser, _ = parserFromBodyContent(`
 <spdx:OrLaterOperator>
  <spdx:member>
   <spdx:SimpleLicensingInfo>
    <spdx:invalidTag />
    <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
    <spdx:name>freeware</spdx:name>
   </spdx:SimpleLicensingInfo>
  </spdx:member>
 </spdx:OrLaterOperator>
```

```
 `)
 node = parser.gordfParserObj.Triples[0].Subject
 _, err = parser.getOrLaterOperatorFromNode(node)
 if err == nil {
  t.Errorf("expected an error parsing invalid license member, got %v", err)
 }

 // TestCase 4: valid input
 parser, _ = parserFromBodyContent(`
  <spdx:OrLaterOperator>
   <spdx:member>
    <spdx:SimpleLicensingInfo>
     <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
     <spdx:name>freeware</spdx:name>
    </spdx:SimpleLicensingInfo>
   </spdx:member>
  </spdx:OrLaterOperator>
 `)
 node
 = parser.gordfParserObj.Triples[0].Subject
 _, err = parser.getOrLaterOperatorFromNode(node)
 if err != nil {
  t.Errorf("unexpected error parsing a valid input: %v", err)
 }
}

func Test_rdfParser2_3_getSimpleLicensingInfoFromNode(t *testing.T) {
 // nothing to test. The just provides an interface to call function that
 // uses triples to render a SimpleLicensingInfo.
 parser, _ := parserFromBodyContent(`
  <spdx:SimpleLicensingInfo>
   <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
   <spdx:name>freeware</spdx:name>
  </spdx:SimpleLicensingInfo>
 `)
 node := parser.gordfParserObj.Triples[0].Subject
 _, err := parser.getSimpleLicensingInfoFromNode(node)
 if err != nil {
  t.Errorf("error parsing a valid input: %v", err)
 }
}

func Test_rdfParser2_3_getSimpleLicensingInfoFromTriples(t *testing.T) {
 var parser *rdfParser2_3
 var err error
 var license SimpleLicensingInfo

 // TestCase 1: invalid
```

```
rdf:seeAlso attribute
parser, _ = parserFromBodyContent(`
 <spdx:SimpleLicensingInfo>
  <rdfs:seeAlso>an invalid uri</rdfs:seeAlso>
 </spdx:SimpleLicensingInfo>
  `)
_, err = parser.getSimpleLicensingInfoFromTriples(parser.gordfParserObj.Triples)
if err == nil {
 t.Error("expected an error reporting invalid uri for rdf:seeAlso, got <nil>")
}

// TestCase 2: invalid predicate must raise an error
parser, _ = parserFromBodyContent(`
 <spdx:SimpleLicensingInfo>
  <rdfs:invalidPredicate />
 </spdx:SimpleLicensingInfo>
  `)
_, err = parser.getSimpleLicensingInfoFromTriples(parser.gordfParserObj.Triples)
if err == nil {
 t.Error("expected an error reporting invalid predicate, got <nil>")
}

// TestCase 3: valid example
parser, _ = parserFromBodyContent(`
 <spdx:SimpleLicensingInfo>
  <rdfs:comment>comment</rdfs:comment>
  <spdx:licenseId>lid</spdx:licenseId>
  <spdx:name>name</spdx:name>
  <rdfs:seeAlso>https://opensource.org/licenses/MPL-1.0</rdfs:seeAlso>
  <spdx:example>example</spdx:example>
 </spdx:SimpleLicensingInfo>
   `)
license, err = parser.getSimpleLicensingInfoFromTriples(parser.gordfParserObj.Triples)
if err != nil {
 t.Fatalf("unexpected error: %v", err)
}
expectedComment := "comment"
expectedLicenseId := "lid"
expectedName := "name"
expectedSeeAlso := "https://opensource.org/licenses/MPL-1.0"
expectedExample := "example"
if expectedComment != license.comment {
 t.Errorf("expected %v, got %v", expectedComment, license.comment)
}
if expectedLicenseId != license.licenseID {
 t.Errorf("expected %v, got %v", expectedLicenseId, license.licenseID)
}
if expectedName != license.name {
```

```
 t.Errorf("expected %v, got %v", expectedName, license.name)
 }
 if len(license.seeAlso) != 1 {
  t.Fatalf("expected seeAlso to have 1 element, found %d", len(license.seeAlso))
 }
 if license.seeAlso[0] != expectedSeeAlso {
  t.Errorf("expected %v, got %v", expectedSeeAlso, license.seeAlso[0])
 }
 if license.example != expectedExample
 {
  t.Errorf("expected %v, got %v", expectedExample, license.example)
 }
}

func Test_rdfParser2_3_getSpecialLicenseFromNode(t *testing.T) {
 var parser *rdfParser2_3
 var node *gordfParser.Node
 var license SpecialLicense

 // TestCase 1: NONE
 parser, _ = parserFromBodyContent(``)
 node = &gordfParser.Node{
  NodeType: gordfParser.IRI,
  ID:       NS_SPDX + "NONE",
 }
 license, err := parser.getSpecialLicenseFromNode(node)
 if err != nil {
  t.Errorf("error parsing a valid node: %v", err)
 }
 if license.value != "NONE" {
  t.Errorf("expected %s, got %s", "NONE", license.value)
 }

 // TestCase 2: NOASSERTION
 parser, _ = parserFromBodyContent(``)
 node = &gordfParser.Node{
  NodeType: gordfParser.IRI,
  ID:       NS_SPDX + "NOASSERTION",
 }
 license, err = parser.getSpecialLicenseFromNode(node)
 if err != nil {
  t.Errorf("error parsing a valid node: %v", err)
 }
 if license.value != "NOASSERTION" {
  t.Errorf("expected %s, got %s", "NOASSERTION", license.value)
 }

 // TestCase 4:
```

```
 undefined standard license
 parser, _ = parserFromBodyContent(``)
 node = &gordfParser.Node{
  NodeType: gordfParser.IRI,
  ID:       "https://opensource.org/licenses/unknown",
 }
 _, err = parser.getSpecialLicenseFromNode(node)
 if err == nil {
  t.Errorf("expected an error saying invalid license")
 }

 // TestCase 4: valid standard license
 parser, _ = parserFromBodyContent(``)
 node = &gordfParser.Node{
  NodeType: gordfParser.IRI,
  ID:       "https://opensource.org/licenses/MPL-1.0",
 }
 license, err = parser.getSpecialLicenseFromNode(node)
 if err != nil {
  t.Errorf("error parsing a valid node: %v", err)
 }
 if license.value != "MPL-1.0" {
  t.Errorf("expected %s, got %s", "MPL-1.0", license.value)
 }
}

func Test_rdfParser2_3_getWithExceptionOperatorFromNode(t *testing.T) {
 var parser *rdfParser2_3
 var node *gordfParser.Node
 var err error

 // TestCase 1: more than one member in the OrLaterOperator tag must raise an error
 parser, _ = parserFromBodyContent(`
  <spdx:WithExceptionOperator>
   <spdx:member>
    <spdx:SimpleLicensingInfo>
     <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
     <spdx:name>freeware</spdx:name>
    </spdx:SimpleLicensingInfo>
   </spdx:member>
   <spdx:member
 rdf:resource="http://spdx.org/licenses/Nokia"/>
  </spdx:WithExceptionOperator>
 `)
 node = parser.gordfParserObj.Triples[0].Subject
 _, err = parser.getWithExceptionOperatorFromNode(node)
 if err == nil {
  t.Error("expected an error due to more than one members, got <nil>")
```

```
}

// TestCase 2: Invalid predicate must raise an error
parser, _ = parserFromBodyContent(`
 <spdx:WithExceptionOperator>
  <spdx:members>
   <spdx:SimpleLicensingInfo>
    <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
    <spdx:name>freeware</spdx:name>
   </spdx:SimpleLicensingInfo>
  </spdx:members>
 </spdx:WithExceptionOperator>
`)
node = parser.gordfParserObj.Triples[0].Subject
_, err = parser.getWithExceptionOperatorFromNode(node)
if err == nil {
 t.Error("expected
an error due to invalid predicate, got <nil>")
}

// TestCase 3: Invalid member
parser, _ = parserFromBodyContent(`
 <spdx:WithExceptionOperator>
  <spdx:member>
   <spdx:License rdf:about="http://spdx.org/licenses/GPL-2.0-or-later">
    <spdx:unknownTag />
   </spdx:License>
  </spdx:member>
 </spdx:WithExceptionOperator>
`)
node = parser.gordfParserObj.Triples[0].Subject
_, err = parser.getWithExceptionOperatorFromNode(node)
if err == nil {
 t.Error("expected an error due to error parsing a member, got <nil>")
}

// TestCase 4: Invalid licenseException
parser, _ = parserFromBodyContent(`
 <spdx:WithExceptionOperator>
  <spdx:member>
   <spdx:License rdf:about="http://spdx.org/licenses/GPL-2.0-or-later"/>
  </spdx:member>
  <spdx:licenseException>
   <spdx:LicenseException>
    <spdx:invalidTag />
    <spdx:example>example</spdx:example>
    <spdx:licenseExceptionId>Libtool-exception</spdx:licenseExceptionId>
    <rdfs:comment>comment</rdfs:comment>
```

```
    </spdx:LicenseException>
   </spdx:licenseException>
  </spdx:WithExceptionOperator>
 `)
 node
 = parser.gordfParserObj.Triples[0].Subject
 _, err = parser.getWithExceptionOperatorFromNode(node)
 if err == nil {
  t.Error("expected an error due to invalid licenseException, got <nil>")
 }

 // TestCase 5: valid input
 parser, _ = parserFromBodyContent(`
  <spdx:WithExceptionOperator>
   <spdx:member>
    <spdx:License rdf:about="http://spdx.org/licenses/GPL-2.0-or-later"/>
   </spdx:member>
   <spdx:licenseException>
    <spdx:LicenseException>
     <spdx:example>example</spdx:example>
     <spdx:licenseExceptionId>Libtool-exception</spdx:licenseExceptionId>
     <rdfs:comment>comment</rdfs:comment>
    </spdx:LicenseException>
   </spdx:licenseException>
  </spdx:WithExceptionOperator>
 `)
 node = parser.gordfParserObj.Triples[0].Subject
 _, err = parser.getWithExceptionOperatorFromNode(node)
 if err != nil {
  t.Errorf("error parsing a valid input: %v", err)
 }
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package reader

import (
 "errors"
 "fmt"
 "strings"

 gordfParser "github.com/spdx/gordf/rdfloader/parser"
 "github.com/spdx/gordf/rdfwriter"
)

// AnyLicense is a baseClass for all the licenses
// All the types of licenses is a sub-type of AnyLicense,
// either directly or indirectly.
```

```
// This function acts as a mux for all the licenses. Based on the input, it
// decides which type of license it is and passes control to that type of
// license parser to parse the given input.
func (parser *rdfParser2_3) getAnyLicenseFromNode(node *gordfParser.Node) (AnyLicenseInfo, error) {

 currState := parser.cache[node.ID]
 if currState == nil {
  // there is no entry about the state of current package node.
  // this is the first time we're seeing this node.
  parser.cache[node.ID] = &nodeState{
   object: nil, // not storing the object as we won't retrieve it later.
   Color:  WHITE,
  }
 } else if currState.Color == GREY {
  // we have
 already started parsing this license node.
  // We have a cyclic dependency!
  return nil, errors.New("Couldn't parse license: found a cyclic dependency on " + node.ID)
 }

 // setting color of the state to grey to indicate that we've started to
 // parse this node once.
 parser.cache[node.ID].Color = GREY

 // setting state color to black when we're done parsing this node.
 defer func() { parser.cache[node.ID].Color = BLACK }()

 associatedTriples := rdfwriter.FilterTriples(parser.gordfParserObj.Triples, &node.ID, nil, nil)
 if len(associatedTriples) == 0 {
  // just a license uri string was found.
  return parser.getSpecialLicenseFromNode(node)
 }

 // we have some attributes associated with the license node.
 nodeType, err := getNodeTypeFromTriples(associatedTriples, node)
 if err != nil {
  return nil, fmt.Errorf("error parsing license triple: %v", err)
 }
 switch nodeType {
 case SPDX_DISJUNCTIVE_LICENSE_SET:
  return parser.getDisjunctiveLicenseSetFromNode(node)
 case SPDX_CONJUNCTIVE_LICENSE_SET:
  return
 parser.getConjunctiveLicenseSetFromNode(node)
 case SPDX_EXTRACTED_LICENSING_INFO:
  return parser.getExtractedLicensingInfoFromNode(node)
 case SPDX_LISTED_LICENSE, SPDX_LICENSE:
  return parser.getLicenseFromNode(node)
```

```
 case SPDX_WITH_EXCEPTION_OPERATOR:
  return parser.getWithExceptionOperatorFromNode(node)
 case SPDX_OR_LATER_OPERATOR:
  return parser.getOrLaterOperatorFromNode(node)
 case SPDX_SIMPLE_LICENSING_INFO:
  return parser.getSimpleLicensingInfoFromNode(node)
 }
 return nil, fmt.Errorf("Unknown subTag (%s) found while parsing AnyLicense", nodeType)
}

func (parser *rdfParser2_3) getLicenseExceptionFromNode(node *gordfParser.Node) (exception LicenseException,
err error) {
 associatedTriples := rdfwriter.FilterTriples(parser.gordfParserObj.Triples, &node.ID, nil, nil)
 for _, triple := range associatedTriples {
  value := triple.Object.ID
  switch triple.Predicate.ID {
  case RDF_TYPE:
   continue
  case SPDX_LICENSE_EXCEPTION_ID:
   exception.licenseExceptionId
 = value
  case SPDX_LICENSE_EXCEPTION_TEXT:
   exception.licenseExceptionText = value
  case RDFS_SEE_ALSO:
   if !isUriValid(value) {
    return exception, fmt.Errorf("invalid uri (%s) for seeAlso attribute of LicenseException", value)
   }
   exception.seeAlso = value
  case SPDX_NAME:
   exception.name = value
  case SPDX_EXAMPLE:
   exception.example = value
  case RDFS_COMMENT:
   exception.comment = value
  default:
   return exception, fmt.Errorf("invalid predicate(%s) for LicenseException", triple.Predicate)
  }
 }
 return exception, nil
}

func (parser *rdfParser2_3) getSimpleLicensingInfoFromNode(node *gordfParser.Node) (SimpleLicensingInfo,
error) {
 simpleLicensingTriples := rdfwriter.FilterTriples(parser.gordfParserObj.Triples, &node.ID, nil, nil)
 return parser.getSimpleLicensingInfoFromTriples(simpleLicensingTriples)
}

func (parser *rdfParser2_3) getWithExceptionOperatorFromNode(node *gordfParser.Node) (operator
```

```
WithExceptionOperator, err error) {
 associatedTriples
 := rdfwriter.FilterTriples(parser.gordfParserObj.Triples, &node.ID, nil, nil)
 var memberFound bool
 for _, triple := range associatedTriples {
  switch triple.Predicate.ID {
  case RDF_TYPE:
   continue
  case SPDX_MEMBER:
   if memberFound {
    return operator,
     fmt.Errorf("more than one member found in the WithExceptionOperator (expected only 1)")
   }
   memberFound = true
   member, err := parser.getSimpleLicensingInfoFromNode(triple.Object)
   if err != nil {
    return operator, fmt.Errorf("error parsing member of a WithExceptionOperator: %v", err)
   }
   operator.member = member
  case SPDX_LICENSE_EXCEPTION:
   operator.licenseException, err = parser.getLicenseExceptionFromNode(triple.Object)
   if err != nil {
    return operator, fmt.Errorf("error parsing licenseException of WithExceptionOperator: %v", err)
   }
  default:
   return operator, fmt.Errorf("unknown predicate (%s) for a WithExceptionOperator", triple.Predicate.ID)
  }
 }
 return operator, nil
}

func
 (parser *rdfParser2_3) getOrLaterOperatorFromNode(node *gordfParser.Node) (operator OrLaterOperator, err
error) {
 associatedTriples := rdfwriter.FilterTriples(parser.gordfParserObj.Triples, &node.ID, nil, nil)
 n := len(associatedTriples)
 if n != 2 {
  return operator, fmt.Errorf("orLaterOperator must be associated with exactly one tag. found %v triples", n-1)
 }
 for _, triple := range associatedTriples {
  switch triple.Predicate.ID {
  case RDF_TYPE:
   continue
  case SPDX_MEMBER:
   operator.member, err = parser.getSimpleLicensingInfoFromNode(triple.Object)
   if err != nil {
    return operator, fmt.Errorf("error parsing simpleLicensingInfo of OrLaterOperator: %v", err)
   }
```

```
  default:
   return operator, fmt.Errorf("unknown predicate %s", triple.Predicate.ID)
  }
 }
 return operator, nil
}

// SpecialLicense is a type of license which is not defined in any of the
// spdx documents, it is a type of license defined for the sake of brevity.
// It can be [NONE|NOASSERTION|LicenseRef-<string>]
func
 (parser *rdfParser2_3) getSpecialLicenseFromNode(node *gordfParser.Node) (lic SpecialLicense, err error) {
 uri := strings.TrimSpace(node.ID)
 switch uri {
 case SPDX_NONE_CAPS, SPDX_NONE_SMALL:
  return SpecialLicense{
   value: NONE,
  }, nil
 case SPDX_NOASSERTION_SMALL, SPDX_NOASSERTION_CAPS:
  return SpecialLicense{
   value: NOASSERTION,
  }, nil
 }

 // the license is neither NONE nor NOASSERTION
 // checking if the license is among the standardLicenses
 licenseAbbreviation := getLastPartOfURI(uri)
 for _, stdLicense := range AllStandardLicenseIDS() {
  if licenseAbbreviation == stdLicense {
   return SpecialLicense{
    value: SpecialLicenseValue(stdLicense),
   }, nil
  }
 }
 return lic, fmt.Errorf("found a custom license uri (%s) without any associated fields", uri)
}

func (parser *rdfParser2_3) getDisjunctiveLicenseSetFromNode(node *gordfParser.Node) (DisjunctiveLicenseSet,
error) {
 licenseSet := DisjunctiveLicenseSet{
  members: []AnyLicenseInfo{},
 }
 for
 _, triple := range parser.nodeToTriples(node) {
  switch triple.Predicate.ID {
  case RDF_TYPE:
   continue
  case SPDX_MEMBER:
```

```
  member, err := parser.getAnyLicenseFromNode(triple.Object)
  if err != nil {
   return licenseSet, fmt.Errorf("error parsing disjunctive license set: %v", err)
  }
  licenseSet.members = append(licenseSet.members, member)
 }
}
return licenseSet, nil
}

func (parser *rdfParser2_3) getConjunctiveLicenseSetFromNode(node *gordfParser.Node) (ConjunctiveLicenseSet,
error) {
 licenseSet := ConjunctiveLicenseSet{
  members: []AnyLicenseInfo{},
 }
 for _, triple := range parser.nodeToTriples(node) {
  switch triple.Predicate.ID {
  case RDF_TYPE:
   continue
  case SPDX_MEMBER:
   member, err := parser.getAnyLicenseFromNode(triple.Object)
   if err != nil {
    return licenseSet, fmt.Errorf("error parsing conjunctive license set: %v", err)
   }
   licenseSet.members = append(licenseSet.members, member)
  default:
   return licenseSet, fmt.Errorf("unknown
 subTag for ConjunctiveLicenseSet: %s", triple.Predicate.ID)
  }
 }
 return licenseSet, nil
}

func (parser *rdfParser2_3) getSimpleLicensingInfoFromTriples(triples []*gordfParser.Triple) (lic
SimpleLicensingInfo, err error) {
 for _, triple := range triples {
  switch triple.Predicate.ID {
  case RDFS_COMMENT:
   lic.comment = triple.Object.ID
  case SPDX_LICENSE_ID:
   lic.licenseID = triple.Object.ID
  case SPDX_NAME:
   lic.name = triple.Object.ID
  case RDFS_SEE_ALSO:
   if !isUriValid(triple.Object.ID) {
    return lic, fmt.Errorf("%s is not a valid uri for seeAlso attribute of a License", triple.Object.ID)
   }
   lic.seeAlso = append(lic.seeAlso, triple.Object.ID)
```

```
 case SPDX_EXAMPLE:
  lic.example = triple.Object.ID
 case RDF_TYPE:
  continue
 default:
  return lic, fmt.Errorf("unknown predicate(%s) for simple licensing info", triple.Predicate)
 }
}
return lic, nil
}

func (parser *rdfParser2_3) getLicenseFromNode(node *gordfParser.Node) (lic License, err error)
{
associatedTriples := rdfwriter.FilterTriples(parser.gordfParserObj.Triples, &node.ID, nil, nil)
var restTriples []*gordfParser.Triple
for _, triple := range associatedTriples {
 value := triple.Object.ID
 switch triple.Predicate.ID {
 case SPDX_IS_OSI_APPROVED:
  lic.isOsiApproved, err = boolFromString(value)
  if err != nil {
   return lic, fmt.Errorf("error parsing isOsiApproved attribute of a License: %v", err)
  }
 case SPDX_LICENSE_TEXT:
  lic.licenseText = value
 case SPDX_STANDARD_LICENSE_HEADER:
  lic.standardLicenseHeader = value
 case SPDX_STANDARD_LICENSE_TEMPLATE:
  lic.standardLicenseTemplate = value
 case SPDX_STANDARD_LICENSE_HEADER_TEMPLATE:
  lic.standardLicenseHeaderTemplate = value
 case SPDX_IS_DEPRECATED_LICENSE_ID:
  lic.isDeprecatedLicenseID, err = boolFromString(value)
  if err != nil {
   return lic, fmt.Errorf("error parsing isDeprecatedLicenseId attribute of a License: %v", err)
  }
 case SPDX_IS_FSF_LIBRE:
  lic.isFsfLibre, err =
boolFromString(value)
  if err != nil {
   return lic, fmt.Errorf("error parsing isFsfLibre attribute of a License: %v", err)
  }
 default:
  restTriples = append(restTriples, triple)
 }
}
lic.SimpleLicensingInfo, err = parser.getSimpleLicensingInfoFromTriples(restTriples)
if err != nil {
```

```
  return lic, fmt.Errorf("error setting simple licensing information of a License: %s", err)
 }
 return lic, nil
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package reader

import (
 "reflect"
 "testing"

 gordfParser "github.com/spdx/gordf/rdfloader/parser"
)

func Test_rdfParser2_2_getExtractedLicensingInfoFromNode(t *testing.T) {
 var parser *rdfParser2_2
 var err error
 var node *gordfParser.Node

 // TestCase 1: invalid predicate must raise an error
 parser, _ = parserFromBodyContent(`
  <spdx:ExtractedLicensingInfo rdf:about="http://anupam-VirtualBox/repo/SPDX2_time-1.9.tar.gz_1535120734-
spdx.rdf#LicenseRef-Freeware">
   <spdx:licenseID>LicenseRef-Freeware</spdx:licenseID>
   <spdx:name>freeware</spdx:name>
   <spdx:extractedText><![CDATA[Software classified as freeware is licensed at no cost and is either fully functional
for an unlimited time; or has only basic functions enabled with a fully functional version available commercially or
as shareware.[8] In contrast to free software, the author usually restricts one or more rights of the user, including the
rights to use, copy,
 distribute, modify and make derivative works of the software or extract the source code.[1][2][9][10] The software
license may impose various additional restrictions on the type of use, e.g. only for personal use, private use,
individual use, non-profit use, non-commercial use, academic use, educational use, use in charity or humanitarian
organizations, non-military use, use by public authorities or various other combinations of these type of
restrictions.[11] For instance, the license may be "free for private, non-commercial use". The software license may
also impose various other restrictions, such as restricted use over a network, restricted use on a server, restricted use
in a combination with some types of other software or with some hardware devices, prohibited distribution over the
Internet other than linking to author's website, restricted distribution without author's consent, restricted number of
copies, etc.]]></spdx:extractedText>
  </spdx:ExtractedLicensingInfo>
 `)
 node
 = parser.gordfParserObj.Triples[0].Subject
 _, err = parser.getExtractedLicensingInfoFromNode(node)
 if err == nil {
  t.Errorf("expected an error saying invalid predicate, got <nil>")
 }
```

```
 // TestCase 2: valid input
 parser, _ = parserFromBodyContent(`
  <spdx:ExtractedLicensingInfo rdf:about="http://anupam-VirtualBox/repo/SPDX2_time-1.9.tar.gz_1535120734-spdx.rdf#LicenseRef-Freeware">
   <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
   <spdx:name>freeware</spdx:name>
   <spdx:extractedText><![CDATA[Software classified as freeware is licensed at no cost and is either fully functional for an unlimited time; or has only basic functions enabled with a fully functional version available commercially or as shareware.[8] In contrast to free software, the author usually restricts one or more rights of the user, including the rights to use, copy, distribute, modify and make derivative works of the software or extract the source code.[1][2][9][10] The software license may impose various
 additional restrictions on the type of use, e.g. only for personal use, private use, individual use, non-profit use, non-commercial use, academic use, educational use, use in charity or humanitarian organizations, non-military use, use by public authorities or various other combinations of these type of restrictions.[11] For instance, the license may be "free for private, non-commercial use". The software license may also impose various other restrictions, such as restricted use over a network, restricted use on a server, restricted use in a combination with some types of other software or with some hardware devices, prohibited distribution over the Internet other than linking to author's website, restricted distribution without author's consent, restricted number of copies, etc.]]></spdx:extractedText>
  </spdx:ExtractedLicensingInfo>
 `)
 node = parser.gordfParserObj.Triples[0].Subject
 _, err = parser.getExtractedLicensingInfoFromNode(node)
 if err != nil {
  t.Errorf("unexpected
 error: %v", err)
 }
}

func Test_rdfParser2_2_extractedLicenseToOtherLicense(t *testing.T) {
 // nothing to test for this function.
 parser, _ := parserFromBodyContent(`
  <spdx:ExtractedLicensingInfo rdf:about="http://anupam-VirtualBox/repo/SPDX2_time-1.9.tar.gz_1535120734-spdx.rdf#LicenseRef-Freeware">
   <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
   <spdx:name>freeware</spdx:name>
   <spdx:extractedText><![CDATA[Software classified as freeware is licensed at no cost and is either fully functional for an unlimited time; or has only basic functions enabled with a fully functional version available commercially or as shareware.[8] In contrast to free software, the author usually restricts one or more rights of the user, including the rights to use, copy, distribute, modify and make derivative works of the software or extract the source code.[1][2][9][10] The software license may impose various additional restrictions on the type of use, e.g. only for personal use, private use,
 individual use, non-profit use, non-commercial use, academic use, educational use, use in charity or humanitarian organizations, non-military use, use by public authorities or various other combinations of these type of restrictions.[11] For instance, the license may be "free for private, non-commercial use". The software license may also impose various other restrictions, such as restricted use over a network, restricted use on a server, restricted use in a combination with some types of other software or with some hardware devices, prohibited distribution over the Internet other than linking to author's website, restricted distribution without author's consent, restricted number of copies, etc.]]></spdx:extractedText>
```

```
 </spdx:ExtractedLicensingInfo>
 `)
 node := parser.gordfParserObj.Triples[0].Subject
 extLicense, _ := parser.getExtractedLicensingInfoFromNode(node)
 othLic := parser.extractedLicenseToOtherLicense(extLicense)

 if othLic.LicenseIdentifier != extLicense.licenseID
 {
  t.Errorf("expected %v, got %v", othLic.LicenseIdentifier, extLicense.licenseID)
 }
 if othLic.ExtractedText != extLicense.extractedText {
  t.Errorf("expected %v, got %v", othLic.ExtractedText, extLicense.extractedText)
 }
 if othLic.LicenseComment != extLicense.comment {
  t.Errorf("expected %v, got %v", othLic.LicenseComment, extLicense.comment)
 }
 if !reflect.DeepEqual(othLic.LicenseCrossReferences, extLicense.seeAlso) {
  t.Errorf("expected %v, got %v", othLic.LicenseCrossReferences, extLicense.seeAlso)
 }
 if othLic.LicenseName != extLicense.name {
  t.Errorf("expected %v, got %v", othLic.LicenseName, extLicense.name)
 }
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package writer

import (
 "bytes"
 "testing"

 spdx "github.com/spdx/tools-golang/spdx/v2/v2_3"
)

// ===== Other License section Saver tests =====
func TestSaverOtherLicenseSavesText(t *testing.T) {
 ol := &spdx.OtherLicense{
  LicenseIdentifier: "LicenseRef-1",
  ExtractedText: `License 1 text
blah blah blah
blah blah blah blah`,
  LicenseName: "License 1",
  LicenseCrossReferences: []string{
   "http://example.com/License1/",
   "http://example.com/License1AnotherURL/",
  },
  LicenseComment: "this is a license comment",
 }
```

```
 // what we want to get, as a buffer of bytes
 want := bytes.NewBufferString(`LicenseID: LicenseRef-1
ExtractedText: <text>License 1 text
blah blah blah
blah blah blah blah</text>
LicenseName: License 1
LicenseCrossReference: http://example.com/License1/
LicenseCrossReference: http://example.com/License1AnotherURL/
LicenseComment: this is a license comment

`)

 // render as buffer of bytes
 var got bytes.Buffer
 err
 := renderOtherLicense(ol, &got)
 if err != nil {
  t.Errorf("Expected nil error, got %v", err)
 }

 // check that they match
 c := bytes.Compare(want.Bytes(), got.Bytes())
 if c != 0 {
  t.Errorf("Expected %v, got %v", want.String(), got.String())
 }
}

func TestSaverOtherLicenseOmitsOptionalFieldsIfEmpty(t *testing.T) {
 ol := &spdx.OtherLicense{
  LicenseIdentifier: "LicenseRef-1",
  ExtractedText: `License 1 text
blah blah blah
blah blah blah blah`,
  LicenseName: "License 1",
 }

 // what we want to get, as a buffer of bytes
 want := bytes.NewBufferString(`LicenseID: LicenseRef-1
ExtractedText: <text>License 1 text
blah blah blah
blah blah blah blah</text>
LicenseName: License 1

`)

 // render as buffer of bytes
 var got bytes.Buffer
```

```
 err := renderOtherLicense(ol, &got)
 if err != nil {
  t.Errorf("Expected nil error, got %v", err)
 }

 // check that they match
 c := bytes.Compare(want.Bytes(), got.Bytes())
 if c != 0 {
  t.Errorf("Expected %v, got %v", want.String(),
 got.String())
 }
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package reader

import (
 "fmt"
 "strings"

 gordfParser "github.com/spdx/gordf/rdfloader/parser"
 "github.com/spdx/tools-golang/spdx/v2/common"
)

/* util methods for licenses and checksums below:*/

// Given the license URI, returns the name of the license defined
// in the last part of the uri.
// This function is susceptible to false-positives.
func getLicenseStringFromURI(uri string) string {
 licenseEnd := strings.TrimSpace(getLastPartOfURI(uri))
 lower := strings.ToLower(licenseEnd)
 if lower == "none" || lower == "noassertion" {
  return strings.ToUpper(licenseEnd)
 }
 return licenseEnd
}

// returns the checksum algorithm and it's value
// In the newer versions, these two strings will be bound to a single checksum struct
// whose pointer will be returned.
func (parser *rdfParser2_2) getChecksumFromNode(checksumNode *gordfParser.Node) (algorithm
common.ChecksumAlgorithm, value string, err error) {
 var checksumValue, checksumAlgorithm
 string
 for _, checksumTriple := range parser.nodeToTriples(checksumNode) {
  switch checksumTriple.Predicate.ID {
  case RDF_TYPE:
```

```
  continue
 case SPDX_CHECKSUM_VALUE:
  // cardinality: exactly 1
  checksumValue = strings.TrimSpace(checksumTriple.Object.ID)
 case SPDX_ALGORITHM:
  // cardinality: exactly 1
  checksumAlgorithm, err = getAlgorithmFromURI(checksumTriple.Object.ID)
  if err != nil {
   return
  }
 default:
  err = fmt.Errorf("unknown predicate '%s' while parsing checksum node", checksumTriple.Predicate.ID)
  return
 }
}
return common.ChecksumAlgorithm(checksumAlgorithm), checksumValue, nil
}

func getAlgorithmFromURI(algorithmURI string) (checksumAlgorithm string, err error) {
 fragment := getLastPartOfURI(algorithmURI)
 if !strings.HasPrefix(fragment, "checksumAlgorithm_") {
  return "", fmt.Errorf("checksum algorithm uri must begin with checksumAlgorithm_. found %s", fragment)
 }
 algorithm := strings.TrimPrefix(fragment, "checksumAlgorithm_")
 algorithm
 = strings.ToLower(strings.TrimSpace(algorithm))
 switch algorithm {
 case "md2", "md4", "md5", "md6":
  checksumAlgorithm = strings.ToUpper(algorithm)
 case "sha1", "sha224", "sha256", "sha384", "sha512":
  checksumAlgorithm = strings.ToUpper(algorithm)
 default:
  return "", fmt.Errorf("unknown checksum algorithm %s", algorithm)
 }
 return
}

// from a list of licenses, it returns a
// list of string representation of those licenses.
func mapLicensesToStrings(licences []AnyLicenseInfo) []string {
 res := make([]string, len(licences))
 for i, lic := range licences {
  res[i] = lic.ToLicenseString()
 }
 return res
}

/****** Type Functions ******/
```

```
// TODO: should probably add brackets while linearizing a nested license.
func (lic ConjunctiveLicenseSet) ToLicenseString() string {
 return strings.Join(mapLicensesToStrings(lic.members), " AND ")
}

// TODO: should probably add brackets while linearizing a nested license.
func (lic DisjunctiveLicenseSet) ToLicenseString()
 string {
 return strings.Join(mapLicensesToStrings(lic.members), " OR ")
}

func (lic ExtractedLicensingInfo) ToLicenseString() string {
 return lic.licenseID
}

func (operator OrLaterOperator) ToLicenseString() string {
 return operator.member.ToLicenseString()
}

func (lic License) ToLicenseString() string {
 return lic.licenseID
}

func (lic ListedLicense) ToLicenseString() string {
 return lic.licenseID
}

func (lic WithExceptionOperator) ToLicenseString() string {
 return lic.member.ToLicenseString()
}

func (lic SpecialLicense) ToLicenseString() string {
 return string(lic.value)
}

func (lic SimpleLicensingInfo) ToLicenseString() string {
 return lic.licenseID
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package reader

import (
 "fmt"
 "strings"

 gordfParser "github.com/spdx/gordf/rdfloader/parser"
```

```
 "github.com/spdx/tools-golang/spdx/v2/common"
)

/* util methods for licenses and checksums below:*/

// Given the license URI, returns the name of the license defined
// in the last part of the uri.
// This function is susceptible to false-positives.
func getLicenseStringFromURI(uri string) string {
 licenseEnd := strings.TrimSpace(getLastPartOfURI(uri))
 lower := strings.ToLower(licenseEnd)
 if lower == "none" || lower == "noassertion" {
  return strings.ToUpper(licenseEnd)
 }
 return licenseEnd
}

// returns the checksum algorithm and it's value
// In the newer versions, these two strings will be bound to a single checksum struct
// whose pointer will be returned.
func (parser *rdfParser2_3) getChecksumFromNode(checksumNode *gordfParser.Node) (algorithm
common.ChecksumAlgorithm, value string, err error) {
 var checksumValue, checksumAlgorithm
 string
 for _, checksumTriple := range parser.nodeToTriples(checksumNode) {
  switch checksumTriple.Predicate.ID {
  case RDF_TYPE:
   continue
  case SPDX_CHECKSUM_VALUE:
   // cardinality: exactly 1
   checksumValue = strings.TrimSpace(checksumTriple.Object.ID)
  case SPDX_ALGORITHM:
   // cardinality: exactly 1
   checksumAlgorithm, err = getAlgorithmFromURI(checksumTriple.Object.ID)
   if err != nil {
    return
   }
  default:
   err = fmt.Errorf("unknown predicate '%s' while parsing checksum node", checksumTriple.Predicate.ID)
   return
  }
 }
 return common.ChecksumAlgorithm(checksumAlgorithm), checksumValue, nil
}

func getAlgorithmFromURI(algorithmURI string) (checksumAlgorithm string, err error) {
 fragment := getLastPartOfURI(algorithmURI)
 if !strings.HasPrefix(fragment, "checksumAlgorithm_") {
```

```
 return "", fmt.Errorf("checksum algorithm uri must begin with checksumAlgorithm_. found %s", fragment)
 }
 algorithm := strings.TrimPrefix(fragment, "checksumAlgorithm_")
 algorithm
 = strings.ToLower(strings.TrimSpace(algorithm))
 switch algorithm {
 case "md2", "md4", "md5", "md6":
  checksumAlgorithm = strings.ToUpper(algorithm)
 case "sha1", "sha224", "sha256", "sha384", "sha512":
  checksumAlgorithm = strings.ToUpper(algorithm)
 default:
  return "", fmt.Errorf("unknown checksum algorithm %s", algorithm)
 }
 return
}

// from a list of licenses, it returns a
// list of string representation of those licenses.
func mapLicensesToStrings(licences []AnyLicenseInfo) []string {
 res := make([]string, len(licences))
 for i, lic := range licences {
  res[i] = lic.ToLicenseString()
 }
 return res
}

/****** Type Functions ******/

// TODO: should probably add brackets while linearizing a nested license.
func (lic ConjunctiveLicenseSet) ToLicenseString() string {
 return strings.Join(mapLicensesToStrings(lic.members), " AND ")
}

// TODO: should probably add brackets while linearizing a nested license.
func (lic DisjunctiveLicenseSet) ToLicenseString()
 string {
 return strings.Join(mapLicensesToStrings(lic.members), " OR ")
}

func (lic ExtractedLicensingInfo) ToLicenseString() string {
 return lic.licenseID
}

func (operator OrLaterOperator) ToLicenseString() string {
 return operator.member.ToLicenseString()
}

func (lic License) ToLicenseString() string {
```

```
 return lic.licenseID
}

func (lic ListedLicense) ToLicenseString() string {
 return lic.licenseID
}

func (lic WithExceptionOperator) ToLicenseString() string {
 return lic.member.ToLicenseString()
}

func (lic SpecialLicense) ToLicenseString() string {
 return string(lic.value)
}

func (lic SimpleLicensingInfo) ToLicenseString() string {
 return lic.licenseID
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package reader

import (
 "fmt"

 gordfParser "github.com/spdx/gordf/rdfloader/parser"
 "github.com/spdx/gordf/rdfwriter"
 spdx "github.com/spdx/tools-golang/spdx/v2/v2_3"
)

func (parser *rdfParser2_3) getExtractedLicensingInfoFromNode(node *gordfParser.Node) (lic
ExtractedLicensingInfo, err error) {
 associatedTriples := rdfwriter.FilterTriples(parser.gordfParserObj.Triples, &node.ID, nil, nil)
 var restTriples []*gordfParser.Triple
 for _, triple := range associatedTriples {
  switch triple.Predicate.ID {
  case SPDX_EXTRACTED_TEXT:
   lic.extractedText = triple.Object.ID
  default:
   restTriples = append(restTriples, triple)
  }
 }
 lic.SimpleLicensingInfo, err = parser.getSimpleLicensingInfoFromTriples(restTriples)
 if err != nil {
  return lic, fmt.Errorf("error setting simple licensing information of extracted licensing info: %s", err)
 }
 return lic, nil
}
```

```
func (parser *rdfParser2_3) extractedLicenseToOtherLicense(extLicense
 ExtractedLicensingInfo) (othLic spdx.OtherLicense) {
 othLic.LicenseIdentifier = extLicense.licenseID
 othLic.ExtractedText = extLicense.extractedText
 othLic.LicenseComment = extLicense.comment
 othLic.LicenseCrossReferences = extLicense.seeAlso
 othLic.LicenseName = extLicense.name
 return othLic
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package v2_3

// OtherLicense is an Other License Information section of an SPDX Document
type OtherLicense struct {
 // 10.1: License Identifier: "LicenseRef-[idstring]"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseIdentifier string `json:"licenseId"`

 // 10.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a
 //              License Identifier assigned
 ExtractedText string `json:"extractedText"`

 // 10.3: License Name: single line of text or "NOASSERTION"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseName string `json:"name,omitempty"`

 // 10.4: License Cross Reference
 // Cardinality: conditional (optional, one or many) if license
 //              is not on SPDX License List
 LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

 // 10.5: License Comment
 // Cardinality:
 optional, one
 LicenseComment string `json:"comment,omitempty"`
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package writer

import (
 "fmt"
 "io"
```

```
 spdx "github.com/spdx/tools-golang/spdx/v2/v2_2"
)

func renderOtherLicense(ol *spdx.OtherLicense, w io.Writer) error {
 if ol.LicenseIdentifier != "" {
  fmt.Fprintf(w, "LicenseID: %s\n", ol.LicenseIdentifier)
 }
 if ol.ExtractedText != "" {
  fmt.Fprintf(w, "ExtractedText: %s\n", textify(ol.ExtractedText))
 }
 if ol.LicenseName != "" {
  fmt.Fprintf(w, "LicenseName: %s\n", ol.LicenseName)
 }
 for _, s := range ol.LicenseCrossReferences {
  fmt.Fprintf(w, "LicenseCrossReference: %s\n", s)
 }
 if ol.LicenseComment != "" {
  fmt.Fprintf(w, "LicenseComment: %s\n", textify(ol.LicenseComment))
 }

 fmt.Fprintf(w, "\n")

 return nil
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package reader

import (
 "reflect"
 "testing"
)

func Test_getLicenseStringFromURI(t *testing.T) {
 // TestCase 1: NONE license
 input := SPDX_NONE_CAPS
 output := getLicenseStringFromURI(input)
 expectedOutput := "NONE"
 if output != expectedOutput {
  t.Errorf("expected: %s, found %s", expectedOutput, output)
 }

 // TestCase 2: NOASSERTION license
 input = SPDX_NOASSERTION_SMALL
 output = getLicenseStringFromURI(input)
 expectedOutput = "NOASSERTION"
 if output != expectedOutput {
```

```
 t.Errorf("expected: %s, found %s", expectedOutput, output)
 }

 // TestCase 3: Other license
 input = NS_SPDX + "LicenseRef-1"
 output = getLicenseStringFromURI(input)
 expectedOutput = "LicenseRef-1"
 if output != expectedOutput {
  t.Errorf("expected: %s, found %s", expectedOutput, output)
 }
}

func Test_rdfParser2_3_getChecksumFromNode(t *testing.T) {
 var parser *rdfParser2_3
 var err error
 // TestCase 1: invalid checksum algorithm
 parser,
 _ = parserFromBodyContent(`
  <spdx:Checksum>
   <spdx:checksumValue>2fd4e1c67a2d28fced849ee1bb76e7391b93eb12</spdx:checksumValue>
   <spdx:algorithm rdf:resource="http://spdx.org/rdf/terms#checksumAlgorithm_sha999"/>
  </spdx:Checksum>
 `)
 checksumNode := parser.gordfParserObj.Triples[0].Subject
 _, _, err = parser.getChecksumFromNode(checksumNode)
 if err == nil {
  t.Errorf("expected an error saying invalid checksum algorithm")
 }

 // TestCase 2: invalid predicate
 parser, _ = parserFromBodyContent(`
  <spdx:Checksum>
   <spdx:checksumValue>2fd4e1c67a2d28fced849ee1bb76e7391b93eb12</spdx:checksumValue>
   <spdx:algorithm rdf:resource="http://spdx.org/rdf/terms#checksumAlgorithm_sha1"/>
   <spdx:invalidPredicate />
  </spdx:Checksum>
 `)
 checksumNode = parser.gordfParserObj.Triples[0].Subject
 _, _, err = parser.getChecksumFromNode(checksumNode)
 if err == nil {
  t.Errorf("expected an error saying invalid predicate")
 }

 // TestCase 3: valid input
 parser, _ = parserFromBodyContent(`
  <spdx:Checksum>
   <spdx:checksumValue>2fd4e1c67a2d28fced849ee1bb76e7391b93eb12</spdx:checksumValue>
   <spdx:algorithm
```

```
 rdf:resource="http://spdx.org/rdf/terms#checksumAlgorithm_sha1"/>
  </spdx:Checksum>
 `)
 checksumNode = parser.gordfParserObj.Triples[0].Subject
 algorithm, value, err := parser.getChecksumFromNode(checksumNode)
 if err != nil {
  t.Errorf("unexpected error: %v", err)
 }
 if algorithm != "SHA1" {
  t.Errorf("expected checksum algorithm to be sha1, found %s", algorithm)
 }
 expectedValue := "2fd4e1c67a2d28fced849ee1bb76e7391b93eb12"
 if value != expectedValue {
  t.Errorf("expected checksumValue to be %s, found %s", expectedValue, value)
 }
}

func Test_rdfParser2_3_getAlgorithmFromURI(t *testing.T) {
 var algorithmURI string
 var err error

 // TestCase 1: checksumAlgorithm uri doesn't start with checksumAlgorithm_
 algorithmURI = NS_SPDX + "sha1"
 _, err = getAlgorithmFromURI(algorithmURI)
 if err == nil {
  t.Errorf("should've raised an error for algorithmURI
 that doesn't start with checksumAlgorithm_")
 }

 // TestCase 2: unknown checksum algorithm
 algorithmURI = NS_SPDX + "checksumAlgorithm_sha999"
 _, err = getAlgorithmFromURI(algorithmURI)
 if err == nil {
  t.Errorf("should've raised an error for invalid algorithm")
 }

 // TestCase 3: valid input
 algorithmURI = NS_SPDX + "checksumAlgorithm_sha256"
 algorithm, err := getAlgorithmFromURI(algorithmURI)
 if err != nil {
  t.Errorf("unexpected error: %v", err)
 }
 if algorithm != "SHA256" {
  t.Errorf("expected: SHA256, found: %s", algorithm)
 }
}

func Test_mapLicensesToStrings(t *testing.T) {
```

```
 // nothing much to test here.
 // just a dummy dry run.
 licenses := []AnyLicenseInfo{
  SpecialLicense{
   value: NONE,
  },
  SpecialLicense{
   value: NOASSERTION,
  },
 }
 licenseStrings := mapLicensesToStrings(licenses)
 expectedLicenseStrings := []string{"NONE", "NOASSERTION"}
 if !reflect.DeepEqual(licenseStrings, expectedLicenseStrings) {
  t.Errorf("expected: %+v\nfound %+v", expectedLicenseStrings,
 licenseStrings)
 }
}

func TestConjunctiveLicenseSet_ToLicenseString(t *testing.T) {
 var lic ConjunctiveLicenseSet
 var output, expectedOutput string

 // TestCase 1: no license in the set
 lic = ConjunctiveLicenseSet{
  members: nil,
 }
 output = lic.ToLicenseString()
 expectedOutput = ""
 if output != expectedOutput {
  t.Errorf("expected: %s, found %s", output, expectedOutput)
 }

 // TestCase 2: single license in the set
 lic = ConjunctiveLicenseSet{
  members: []AnyLicenseInfo{
   SpecialLicense{value: NOASSERTION},
  },
 }
 output = lic.ToLicenseString()
 expectedOutput = "NOASSERTION"
 if output != expectedOutput {
  t.Errorf("expected: %s, found %s", output, expectedOutput)
 }

 // TestCase 3: more than one license in the set.
 lic = ConjunctiveLicenseSet{
  members: []AnyLicenseInfo{
   SpecialLicense{value: NOASSERTION},
```

```
  SpecialLicense{value: NONE},
 },
}
output = lic.ToLicenseString()
expectedOutput = "NOASSERTION AND NONE"
if output != expectedOutput
{
 t.Errorf("expected: %s, found %s", output, expectedOutput)
}

// TestCase 4: nested conjunctive license.
lic = ConjunctiveLicenseSet{
 members: []AnyLicenseInfo{
  SpecialLicense{value: NOASSERTION},
  ConjunctiveLicenseSet{
   members: []AnyLicenseInfo{
    SpecialLicense{value: "LicenseRef-1"},
    SpecialLicense{value: NONE},
   },
  },
 },
}
output = lic.ToLicenseString()
expectedOutput = "NOASSERTION AND LicenseRef-1 AND NONE"
if output != expectedOutput {
 t.Errorf("expected: %s, found %s", output, expectedOutput)
}
}

func TestDisjunctiveLicenseSet_ToLicenseString(t *testing.T) {
 var lic DisjunctiveLicenseSet
 var output, expectedOutput string

 // TestCase 1: no license in the set
 lic = DisjunctiveLicenseSet{
  members: nil,
 }
 output = lic.ToLicenseString()
 expectedOutput = ""
 if output != expectedOutput {
  t.Errorf("expected: %s, found %s", output, expectedOutput)
 }

 // TestCase 2: single license in the set
 lic = DisjunctiveLicenseSet{
  members:
 []AnyLicenseInfo{
  SpecialLicense{value: NOASSERTION},
```

```
 },
}
output = lic.ToLicenseString()
expectedOutput = "NOASSERTION"
if output != expectedOutput {
 t.Errorf("expected: %s, found %s", output, expectedOutput)
}

// TestCase 3: more than one license in the set.
lic = DisjunctiveLicenseSet{
 members: []AnyLicenseInfo{
  SpecialLicense{value: NOASSERTION},
  SpecialLicense{value: NONE},
 },
}
output = lic.ToLicenseString()
expectedOutput = "NOASSERTION OR NONE"
if output != expectedOutput {
 t.Errorf("expected: %s, found %s", output, expectedOutput)
}

// TestCase 4: nested conjunctive license.
lic = DisjunctiveLicenseSet{
 members: []AnyLicenseInfo{
  SpecialLicense{value: NOASSERTION},
  DisjunctiveLicenseSet{
   members: []AnyLicenseInfo{
    SpecialLicense{value: "LicenseRef-1"},
    SpecialLicense{value: NONE},
   },
  },
 },
}
output = lic.ToLicenseString()
expectedOutput = "NOASSERTION OR LicenseRef-1 OR NONE"
if output != expectedOutput
{
 t.Errorf("expected: %s, found %s", output, expectedOutput)
}
}

func TestExtractedLicensingInfo_ToLicenseString(t *testing.T) {
// nothing to test (just a dry run)
extractedLicense := ExtractedLicensingInfo{
 SimpleLicensingInfo: SimpleLicensingInfo{
  licenseID: "license",
 },
 extractedText: "extracted Text",
```

```
 }
 expectedOutput := "license"
 output := extractedLicense.ToLicenseString()
 if output != expectedOutput {
  t.Errorf("expected: %s, found: %s", expectedOutput, output)
 }
}

func TestOrLaterOperator_ToLicenseString(t *testing.T) {
 // nothing to test (just a dry run)
 orLater := OrLaterOperator{
  member: SimpleLicensingInfo{
   licenseID: "license",
  },
 }
 expectedOutput := "license"
 output := orLater.ToLicenseString()
 if output != expectedOutput {
  t.Errorf("expected: %s, found: %s", expectedOutput, output)
 }
}

func TestLicense_ToLicenseString(t *testing.T) {
 // nothing to test (just a dry run)
 license := License{
  SimpleLicensingInfo: SimpleLicensingInfo{
   licenseID:
 "license",
  },
 }
 expectedOutput := "license"
 output := license.ToLicenseString()
 if output != expectedOutput {
  t.Errorf("expected: %s, found: %s", expectedOutput, output)
 }
}

func TestListedLicense_ToLicenseString(t *testing.T) {
 // nothing to test (just a dry run)
 ll := ListedLicense{License{
  SimpleLicensingInfo: SimpleLicensingInfo{
   licenseID: "license",
  },
 },
 }
 expectedOutput := "license"
 output := ll.ToLicenseString()
 if output != expectedOutput {
```

```
  t.Errorf("expected: %s, found: %s", expectedOutput, output)
 }
}

func TestWithExceptionOperator_ToLicenseString(t *testing.T) {
 // nothing to test (just a dry run)
 withException := WithExceptionOperator{
  member: SimpleLicensingInfo{
   licenseID: "license",
  },
  licenseException: LicenseException{},
 }
 expectedOutput := "license"
 output := withException.ToLicenseString()
 if output != expectedOutput {
  t.Errorf("expected: %s, found: %s", expectedOutput, output)
 }
}

func TestSpecialLicense_ToLicenseString(t
 *testing.T) {
 // nothing to test (just a dry run)
 specialLicense := SpecialLicense{
  value: "license",
 }
 expectedOutput := "license"
 output := specialLicense.ToLicenseString()
 if output != expectedOutput {
  t.Errorf("expected: %s, found: %s", expectedOutput, output)
 }
}

func TestSimpleLicensingInfo_ToLicenseString(t *testing.T) {
 // nothing to test (just a dry run)
 sli := SimpleLicensingInfo{
  licenseID: "license",
 }
 expectedOutput := "license"
 output := sli.ToLicenseString()
 if output != expectedOutput {
  t.Errorf("expected: %s, found: %s", expectedOutput, output)
 }
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package reader

import (
```

```
 "reflect"
 "testing"
)

func Test_getLicenseStringFromURI(t *testing.T) {
 // TestCase 1: NONE license
 input := SPDX_NONE_CAPS
 output := getLicenseStringFromURI(input)
 expectedOutput := "NONE"
 if output != expectedOutput {
  t.Errorf("expected: %s, found %s", expectedOutput, output)
 }

 // TestCase 2: NOASSERTION license
 input = SPDX_NOASSERTION_SMALL
 output = getLicenseStringFromURI(input)
 expectedOutput = "NOASSERTION"
 if output != expectedOutput {
  t.Errorf("expected: %s, found %s", expectedOutput, output)
 }

 // TestCase 3: Other license
 input = NS_SPDX + "LicenseRef-1"
 output = getLicenseStringFromURI(input)
 expectedOutput = "LicenseRef-1"
 if output != expectedOutput {
  t.Errorf("expected: %s, found %s", expectedOutput, output)
 }
}

func Test_rdfParser2_2_getChecksumFromNode(t *testing.T) {
 var parser *rdfParser2_2
 var err error
 // TestCase 1: invalid checksum algorithm
 parser,
 _ = parserFromBodyContent(`
  <spdx:Checksum>
   <spdx:checksumValue>2fd4e1c67a2d28fced849ee1bb76e7391b93eb12</spdx:checksumValue>
   <spdx:algorithm rdf:resource="http://spdx.org/rdf/terms#checksumAlgorithm_sha999"/>
  </spdx:Checksum>
 `)
 checksumNode := parser.gordfParserObj.Triples[0].Subject
 _, _, err = parser.getChecksumFromNode(checksumNode)
 if err == nil {
  t.Errorf("expected an error saying invalid checksum algorithm")
 }

 // TestCase 2: invalid predicate
```

```
parser, _ = parserFromBodyContent(`
 <spdx:Checksum>
  <spdx:checksumValue>2fd4e1c67a2d28fced849ee1bb76e7391b93eb12</spdx:checksumValue>
  <spdx:algorithm rdf:resource="http://spdx.org/rdf/terms#checksumAlgorithm_sha1"/>
  <spdx:invalidPredicate />
 </spdx:Checksum>
`)
checksumNode = parser.gordfParserObj.Triples[0].Subject
_, _, err = parser.getChecksumFromNode(checksumNode)
if err == nil {
 t.Errorf("expected an error saying invalid predicate")
}

// TestCase 3: valid input
parser, _ = parserFromBodyContent(`
 <spdx:Checksum>
  <spdx:checksumValue>2fd4e1c67a2d28fced849ee1bb76e7391b93eb12</spdx:checksumValue>
  <spdx:algorithm
rdf:resource="http://spdx.org/rdf/terms#checksumAlgorithm_sha1"/>
 </spdx:Checksum>
`)
checksumNode = parser.gordfParserObj.Triples[0].Subject
algorithm, value, err := parser.getChecksumFromNode(checksumNode)
if err != nil {
 t.Errorf("unexpected error: %v", err)
}
if algorithm != "SHA1" {
 t.Errorf("expected checksum algorithm to be sha1, found %s", algorithm)
}
expectedValue := "2fd4e1c67a2d28fced849ee1bb76e7391b93eb12"
if value != expectedValue {
 t.Errorf("expected checksumValue to be %s, found %s", expectedValue, value)
}
}

func Test_rdfParser2_2_getAlgorithmFromURI(t *testing.T) {
var algorithmURI string
var err error

// TestCase 1: checksumAlgorithm uri doesn't start with checksumAlgorithm_
algorithmURI = NS_SPDX + "sha1"
_, err = getAlgorithmFromURI(algorithmURI)
if err == nil {
 t.Errorf("should've raised an error for algorithmURI
that doesn't start with checksumAlgorithm_")
}

// TestCase 2: unknown checksum algorithm
```

```
 algorithmURI = NS_SPDX + "checksumAlgorithm_sha999"
 _, err = getAlgorithmFromURI(algorithmURI)
 if err == nil {
  t.Errorf("should've raised an error for invalid algorithm")
 }

 // TestCase 3: valid input
 algorithmURI = NS_SPDX + "checksumAlgorithm_sha256"
 algorithm, err := getAlgorithmFromURI(algorithmURI)
 if err != nil {
  t.Errorf("unexpected error: %v", err)
 }
 if algorithm != "SHA256" {
  t.Errorf("expected: SHA256, found: %s", algorithm)
 }
}

func Test_mapLicensesToStrings(t *testing.T) {
 // nothing much to test here.
 // just a dummy dry run.
 licenses := []AnyLicenseInfo{
  SpecialLicense{
   value: NONE,
  },
  SpecialLicense{
   value: NOASSERTION,
  },
 }
 licenseStrings := mapLicensesToStrings(licenses)
 expectedLicenseStrings := []string{"NONE", "NOASSERTION"}
 if !reflect.DeepEqual(licenseStrings, expectedLicenseStrings) {
  t.Errorf("expected: %+v\nfound %+v", expectedLicenseStrings,
 licenseStrings)
 }
}

func TestConjunctiveLicenseSet_ToLicenseString(t *testing.T) {
 var lic ConjunctiveLicenseSet
 var output, expectedOutput string

 // TestCase 1: no license in the set
 lic = ConjunctiveLicenseSet{
  members: nil,
 }
 output = lic.ToLicenseString()
 expectedOutput = ""
 if output != expectedOutput {
  t.Errorf("expected: %s, found %s", output, expectedOutput)
```

```
}

// TestCase 2: single license in the set
lic = ConjunctiveLicenseSet{
 members: []AnyLicenseInfo{
  SpecialLicense{value: NOASSERTION},
 },
}
output = lic.ToLicenseString()
expectedOutput = "NOASSERTION"
if output != expectedOutput {
 t.Errorf("expected: %s, found %s", output, expectedOutput)
}

// TestCase 3: more than one license in the set.
lic = ConjunctiveLicenseSet{
 members: []AnyLicenseInfo{
  SpecialLicense{value: NOASSERTION},
  SpecialLicense{value: NONE},
 },
}
output = lic.ToLicenseString()
expectedOutput = "NOASSERTION AND NONE"
if output != expectedOutput
{
 t.Errorf("expected: %s, found %s", output, expectedOutput)
}

// TestCase 4: nested conjunctive license.
lic = ConjunctiveLicenseSet{
 members: []AnyLicenseInfo{
  SpecialLicense{value: NOASSERTION},
  ConjunctiveLicenseSet{
   members: []AnyLicenseInfo{
    SpecialLicense{value: "LicenseRef-1"},
    SpecialLicense{value: NONE},
   },
  },
 },
}
output = lic.ToLicenseString()
expectedOutput = "NOASSERTION AND LicenseRef-1 AND NONE"
if output != expectedOutput {
 t.Errorf("expected: %s, found %s", output, expectedOutput)
}
}

func TestDisjunctiveLicenseSet_ToLicenseString(t *testing.T) {
```

```
var lic DisjunctiveLicenseSet
var output, expectedOutput string

// TestCase 1: no license in the set
lic = DisjunctiveLicenseSet{
 members: nil,
}
output = lic.ToLicenseString()
expectedOutput = ""
if output != expectedOutput {
 t.Errorf("expected: %s, found %s", output, expectedOutput)
}

// TestCase 2: single license in the set
lic = DisjunctiveLicenseSet{
 members:
[]AnyLicenseInfo{
  SpecialLicense{value: NOASSERTION},
 },
}
output = lic.ToLicenseString()
expectedOutput = "NOASSERTION"
if output != expectedOutput {
 t.Errorf("expected: %s, found %s", output, expectedOutput)
}

// TestCase 3: more than one license in the set.
lic = DisjunctiveLicenseSet{
 members: []AnyLicenseInfo{
  SpecialLicense{value: NOASSERTION},
  SpecialLicense{value: NONE},
 },
}
output = lic.ToLicenseString()
expectedOutput = "NOASSERTION OR NONE"
if output != expectedOutput {
 t.Errorf("expected: %s, found %s", output, expectedOutput)
}

// TestCase 4: nested conjunctive license.
lic = DisjunctiveLicenseSet{
 members: []AnyLicenseInfo{
  SpecialLicense{value: NOASSERTION},
  DisjunctiveLicenseSet{
   members: []AnyLicenseInfo{
    SpecialLicense{value: "LicenseRef-1"},
    SpecialLicense{value: NONE},
   },
```

```
   },
  },
 }
 output = lic.ToLicenseString()
 expectedOutput = "NOASSERTION OR LicenseRef-1 OR NONE"
 if output != expectedOutput
 {
  t.Errorf("expected: %s, found %s", output, expectedOutput)
 }
}

func TestExtractedLicensingInfo_ToLicenseString(t *testing.T) {
 // nothing to test (just a dry run)
 extractedLicense := ExtractedLicensingInfo{
  SimpleLicensingInfo: SimpleLicensingInfo{
   licenseID: "license",
  },
  extractedText: "extracted Text",
 }
 expectedOutput := "license"
 output := extractedLicense.ToLicenseString()
 if output != expectedOutput {
  t.Errorf("expected: %s, found: %s", expectedOutput, output)
 }
}

func TestOrLaterOperator_ToLicenseString(t *testing.T) {
 // nothing to test (just a dry run)
 orLater := OrLaterOperator{
  member: SimpleLicensingInfo{
   licenseID: "license",
  },
 }
 expectedOutput := "license"
 output := orLater.ToLicenseString()
 if output != expectedOutput {
  t.Errorf("expected: %s, found: %s", expectedOutput, output)
 }
}

func TestLicense_ToLicenseString(t *testing.T) {
 // nothing to test (just a dry run)
 license := License{
  SimpleLicensingInfo: SimpleLicensingInfo{
   licenseID:
 "license",
  },
 }
```

```
 expectedOutput := "license"
 output := license.ToLicenseString()
 if output != expectedOutput {
  t.Errorf("expected: %s, found: %s", expectedOutput, output)
 }
}

func TestListedLicense_ToLicenseString(t *testing.T) {
 // nothing to test (just a dry run)
 ll := ListedLicense{License{
  SimpleLicensingInfo: SimpleLicensingInfo{
   licenseID: "license",
  },
 },
 }
 expectedOutput := "license"
 output := ll.ToLicenseString()
 if output != expectedOutput {
  t.Errorf("expected: %s, found: %s", expectedOutput, output)
 }
}

func TestWithExceptionOperator_ToLicenseString(t *testing.T) {
 // nothing to test (just a dry run)
 withException := WithExceptionOperator{
  member: SimpleLicensingInfo{
   licenseID: "license",
  },
  licenseException: LicenseException{},
 }
 expectedOutput := "license"
 output := withException.ToLicenseString()
 if output != expectedOutput {
  t.Errorf("expected: %s, found: %s", expectedOutput, output)
 }
}

func TestSpecialLicense_ToLicenseString(t
 *testing.T) {
 // nothing to test (just a dry run)
 specialLicense := SpecialLicense{
  value: "license",
 }
 expectedOutput := "license"
 output := specialLicense.ToLicenseString()
 if output != expectedOutput {
  t.Errorf("expected: %s, found: %s", expectedOutput, output)
 }
```

```
}

func TestSimpleLicensingInfo_ToLicenseString(t *testing.T) {
 // nothing to test (just a dry run)
 sli := SimpleLicensingInfo{
  licenseID: "license",
 }
 expectedOutput := "license"
 output := sli.ToLicenseString()
 if output != expectedOutput {
  t.Errorf("expected: %s, found: %s", expectedOutput, output)
 }
}
```

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package v2_2

// OtherLicense is an Other License Information section of an
// SPDX Document for version 2.2 of the spec.
type OtherLicense struct {
 // 10.1: License Identifier: "LicenseRef-[idstring]"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseIdentifier string `json:"licenseId"`

 // 10.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a
 //              License Identifier assigned
 ExtractedText string `json:"extractedText"`

 // 10.3: License Name: single line of text or "NOASSERTION"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseName string `json:"name,omitempty"`

 // 10.4: License Cross Reference
 // Cardinality: conditional (optional, one or many) if license
 //              is not on SPDX License List
 LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

 //
 10.5: License Comment
 // Cardinality: optional, one
 LicenseComment string `json:"comment,omitempty"`
}
```

```
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package writer

import (
 "bytes"
 "testing"

 spdx "github.com/spdx/tools-golang/spdx/v2/v2_1"
)

// ===== Other License section Saver tests =====
func TestSaverOtherLicenseSavesText(t *testing.T) {
 ol := &spdx.OtherLicense{
  LicenseIdentifier: "LicenseRef-1",
  ExtractedText: `License 1 text
blah blah blah
blah blah blah blah`,
  LicenseName: "License 1",
  LicenseCrossReferences: []string{
   "http://example.com/License1/",
   "http://example.com/License1AnotherURL/",
  },
  LicenseComment: "this is a license comment",
 }

 // what we want to get, as a buffer of bytes
 want := bytes.NewBufferString(`LicenseID: LicenseRef-1
ExtractedText: <text>License 1 text
blah blah blah
blah blah blah blah</text>
LicenseName: License 1
LicenseCrossReference: http://example.com/License1/
LicenseCrossReference: http://example.com/License1AnotherURL/
LicenseComment: this is a license comment

`)

 // render as buffer of bytes
 var got bytes.Buffer
 err
 := renderOtherLicense(ol, &got)
 if err != nil {
  t.Errorf("Expected nil error, got %v", err)
 }

 // check that they match
 c := bytes.Compare(want.Bytes(), got.Bytes())
```

```
 if c != 0 {
  t.Errorf("Expected %v, got %v", want.String(), got.String())
 }
}

func TestSaverOtherLicenseOmitsOptionalFieldsIfEmpty(t *testing.T) {
 ol := &spdx.OtherLicense{
  LicenseIdentifier: "LicenseRef-1",
  ExtractedText: `License 1 text
blah blah blah
blah blah blah blah`,
  LicenseName: "License 1",
 }

 // what we want to get, as a buffer of bytes
 want := bytes.NewBufferString(`LicenseID: LicenseRef-1
ExtractedText: <text>License 1 text
blah blah blah
blah blah blah blah</text>
LicenseName: License 1

`)

 // render as buffer of bytes
 var got bytes.Buffer
 err := renderOtherLicense(ol, &got)
 if err != nil {
  t.Errorf("Expected nil error, got %v", err)
 }

 // check that they match
 c := bytes.Compare(want.Bytes(), got.Bytes())
 if c != 0 {
  t.Errorf("Expected %v, got %v", want.String(),
 got.String())
 }
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package reader

import (
 "reflect"
 "testing"

 gordfParser "github.com/spdx/gordf/rdfloader/parser"
)
```

```
func Test_rdfParser2_3_getExtractedLicensingInfoFromNode(t *testing.T) {
 var parser *rdfParser2_3
 var err error
 var node *gordfParser.Node

 // TestCase 1: invalid predicate must raise an error
 parser, _ = parserFromBodyContent(`
  <spdx:ExtractedLicensingInfo rdf:about="http://anupam-VirtualBox/repo/SPDX2_time-1.9.tar.gz_1535120734-spdx.rdf#LicenseRef-Freeware">
   <spdx:licenseID>LicenseRef-Freeware</spdx:licenseID>
   <spdx:name>freeware</spdx:name>
   <spdx:extractedText><![CDATA[Software classified as freeware is licensed at no cost and is either fully functional for an unlimited time; or has only basic functions enabled with a fully functional version available commercially or as shareware.[8] In contrast to free software, the author usually restricts one or more rights of the user, including the rights to use, copy,
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  </spdx:ExtractedLicensingInfo>
 `)
 node
 = parser.gordfParserObj.Triples[0].Subject
 _, err = parser.getExtractedLicensingInfoFromNode(node)
 if err == nil {
  t.Errorf("expected an error saying invalid predicate, got <nil>")
 }

 // TestCase 2: valid input
 parser, _ = parserFromBodyContent(`
  <spdx:ExtractedLicensingInfo rdf:about="http://anupam-VirtualBox/repo/SPDX2_time-1.9.tar.gz_1535120734-spdx.rdf#LicenseRef-Freeware">
   <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
   <spdx:name>freeware</spdx:name>
   <spdx:extractedText><![CDATA[Software classified as freeware is licensed at no cost and is either fully functional for an unlimited time; or has only basic functions enabled with a fully functional version available commercially or as shareware.[8] In contrast to free software, the author usually restricts one or more rights of the user, including the rights to use, copy, distribute, modify and make derivative works of the software or extract the source code.[1][2][9][10] The software license may impose various
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```
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  </spdx:ExtractedLicensingInfo>
 `)
 node = parser.gordfParserObj.Triples[0].Subject
 _, err = parser.getExtractedLicensingInfoFromNode(node)
 if err != nil {
  t.Errorf("unexpected
 error: %v", err)
 }
}

func Test_rdfParser2_3_extractedLicenseToOtherLicense(t *testing.T) {
 // nothing to test for this function.
 parser, _ := parserFromBodyContent(`
  <spdx:ExtractedLicensingInfo rdf:about="http://anupam-VirtualBox/repo/SPDX2_time-1.9.tar.gz_1535120734-spdx.rdf#LicenseRef-Freeware">
   <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
   <spdx:name>freeware</spdx:name>
   <spdx:extractedText><![CDATA[Software classified as freeware is licensed at no cost and is either fully functional for an unlimited time; or has only basic functions enabled with a fully functional version available commercially or as shareware.[8] In contrast to free software, the author usually restricts one or more rights of the user, including the rights to use, copy, distribute, modify and make derivative works of the software or extract the source code.[1][2][9][10] The software license may impose various additional restrictions on the type of use, e.g. only for personal use, private use,
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  </spdx:ExtractedLicensingInfo>
 `)
 node := parser.gordfParserObj.Triples[0].Subject
 extLicense, _ := parser.getExtractedLicensingInfoFromNode(node)
 othLic := parser.extractedLicenseToOtherLicense(extLicense)

 if othLic.LicenseIdentifier != extLicense.licenseID
 {
  t.Errorf("expected %v, got %v", othLic.LicenseIdentifier, extLicense.licenseID)
 }
 if othLic.ExtractedText != extLicense.extractedText {
  t.Errorf("expected %v, got %v", othLic.ExtractedText, extLicense.extractedText)
 }
 if othLic.LicenseComment != extLicense.comment {
  t.Errorf("expected %v, got %v", othLic.LicenseComment, extLicense.comment)
```

```
 }
 if !reflect.DeepEqual(othLic.LicenseCrossReferences, extLicense.seeAlso) {
  t.Errorf("expected %v, got %v", othLic.LicenseCrossReferences, extLicense.seeAlso)
 }
 if othLic.LicenseName != extLicense.name {
  t.Errorf("expected %v, got %v", othLic.LicenseName, extLicense.name)
 }
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package reader

import (
 "fmt"

 gordfParser "github.com/spdx/gordf/rdfloader/parser"
 "github.com/spdx/gordf/rdfwriter"
 "github.com/spdx/tools-golang/spdx/v2/v2_2"
)

func (parser *rdfParser2_2) getExtractedLicensingInfoFromNode(node *gordfParser.Node) (lic
ExtractedLicensingInfo, err error) {
 associatedTriples := rdfwriter.FilterTriples(parser.gordfParserObj.Triples, &node.ID, nil, nil)
 var restTriples []*gordfParser.Triple
 for _, triple := range associatedTriples {
  switch triple.Predicate.ID {
  case SPDX_EXTRACTED_TEXT:
   lic.extractedText = triple.Object.ID
  default:
   restTriples = append(restTriples, triple)
  }
 }
 lic.SimpleLicensingInfo, err = parser.getSimpleLicensingInfoFromTriples(restTriples)
 if err != nil {
  return lic, fmt.Errorf("error setting simple licensing information of extracted licensing info: %s", err)
 }
 return lic, nil
}

func (parser *rdfParser2_2) extractedLicenseToOtherLicense(extLicense
 ExtractedLicensingInfo) (othLic v2_2.OtherLicense) {
 othLic.LicenseIdentifier = extLicense.licenseID
 othLic.ExtractedText = extLicense.extractedText
 othLic.LicenseComment = extLicense.comment
 othLic.LicenseCrossReferences = extLicense.seeAlso
 othLic.LicenseName = extLicense.name
 return othLic
}
```

```
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later
package reader

import (
 "testing"

 spdx "github.com/spdx/tools-golang/spdx/v2/v2_3"
)

// ===== Parser other license section state change tests =====
func TestParserOLStartsNewOtherLicenseAfterParsingLicenseIDTag(t *testing.T) {
 // create the first other license
 olid1 := "LicenseRef-Lic11"
 olname1 := "License 11"

 parser := tvParser{
  doc:  &spdx.Document{Packages: []*spdx.Package{}},
  st:   psOtherLicense,
  pkg:  &spdx.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*spdx.File{}},
  file: &spdx.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
  otherLic: &spdx.OtherLicense{
   LicenseIdentifier: olid1,
   LicenseName:       olname1,
  },
 }
 olic1 := parser.otherLic
 parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
 parser.pkg.Files = append(parser.pkg.Files, parser.file)
 parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

 // the Document's OtherLicenses
 should have this one only
 if parser.doc.OtherLicenses[0] != olic1 {
  t.Errorf("Expected other license %v in OtherLicenses[0], got %v", olic1, parser.doc.OtherLicenses[0])
 }
 if parser.doc.OtherLicenses[0].LicenseName != olname1 {
  t.Errorf("expected other license name %s in OtherLicenses[0], got %s", olname1,
parser.doc.OtherLicenses[0].LicenseName)
 }

 // now add a new other license
 olid2 := "LicenseRef-22"
 olname2 := "License 22"
 err := parser.parsePair("LicenseID", olid2)
 if err != nil {
  t.Errorf("got error when calling parsePair: %v", err)
 }
 // state should be correct
```

```
 if parser.st != psOtherLicense {
  t.Errorf("expected state to be %v, got %v", psOtherLicense, parser.st)
 }
 // and an other license should be created
 if parser.otherLic == nil {
  t.Fatalf("parser didn't create new other license")
 }
 // also parse the new license's name
 err = parser.parsePair("LicenseName", olname2)
 if err != nil {
  t.Errorf("got error when calling parsePair: %v", err)
 }
 // state
 should still be correct
 if parser.st != psOtherLicense {
  t.Errorf("expected state to be %v, got %v", psOtherLicense, parser.st)
 }
 // and the other license name should be as expected
 if parser.otherLic.LicenseName != olname2 {
  t.Errorf("expected other license name %s, got %s", olname2, parser.otherLic.LicenseName)
 }
 // and the Document's Other Licenses should be of size 2 and have these two
 if len(parser.doc.OtherLicenses) != 2 {
  t.Fatalf("Expected OtherLicenses to have len 2, got %d", len(parser.doc.OtherLicenses))
 }
 if parser.doc.OtherLicenses[0] != olic1 {
  t.Errorf("Expected other license %v in OtherLicenses[0], got %v", olic1, parser.doc.OtherLicenses[0])
 }
 if parser.doc.OtherLicenses[0].LicenseIdentifier != olid1 {
  t.Errorf("expected other license ID %s in OtherLicenses[0], got %s", olid1,
parser.doc.OtherLicenses[0].LicenseIdentifier)
 }
 if parser.doc.OtherLicenses[0].LicenseName != olname1 {
  t.Errorf("expected other license name %s in OtherLicenses[0],
 got %s", olname1, parser.doc.OtherLicenses[0].LicenseName)
 }
 if parser.doc.OtherLicenses[1] != parser.otherLic {
  t.Errorf("Expected other license %v in OtherLicenses[1], got %v", parser.otherLic, parser.doc.OtherLicenses[1])
 }
 if parser.doc.OtherLicenses[1].LicenseIdentifier != olid2 {
  t.Errorf("expected other license ID %s in OtherLicenses[1], got %s", olid2,
parser.doc.OtherLicenses[1].LicenseIdentifier)
 }
 if parser.doc.OtherLicenses[1].LicenseName != olname2 {
  t.Errorf("expected other license name %s in OtherLicenses[1], got %s", olname2,
parser.doc.OtherLicenses[1].LicenseName)
 }
}
```

```
func TestParserOLMovesToReviewAfterParsingReviewerTag(t *testing.T) {
 parser := tvParser{
  doc:  &spdx.Document{Packages: []*spdx.Package{}},
  st:   psOtherLicense,
  pkg:  &spdx.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*spdx.File{}},
  file: &spdx.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
 }
 parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
 parser.pkg.Files
 = append(parser.pkg.Files, parser.file)
 parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

 err := parser.parsePair("Reviewer", "Person: John Doe")
 if err != nil {
  t.Errorf("got error when calling parsePair: %v", err)
 }
 if parser.st != psReview {
  t.Errorf("expected state to be %v, got %v", psReview, parser.st)
 }
}

func TestParserOtherLicenseStaysAfterParsingRelationshipTags(t *testing.T) {
 parser := tvParser{
  doc:  &spdx.Document{Packages: []*spdx.Package{}},
  st:   psOtherLicense,
  pkg:  &spdx.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*spdx.File{}},
  file: &spdx.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
  otherLic: &spdx.OtherLicense{
   LicenseIdentifier: "LicenseRef-whatever",
   LicenseName:       "the whatever license",
  },
 }
 parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
 parser.pkg.Files = append(parser.pkg.Files, parser.file)
 parser.doc.OtherLicenses = append(parser.doc.OtherLicenses,
 parser.otherLic)

 err := parser.parsePair("Relationship", "SPDXRef-blah CONTAINS SPDXRef-blah-else")
 if err != nil {
  t.Errorf("got error when calling parsePair: %v", err)
 }
 // state should remain unchanged
 if parser.st != psOtherLicense {
  t.Errorf("expected state to be %v, got %v", psOtherLicense, parser.st)
 }
 // and the relationship should be in the Document's Relationships
 if len(parser.doc.Relationships) != 1 {
```

```
 t.Fatalf("expected doc.Relationships to have len 1, got %d", len(parser.doc.Relationships))
 }
 deID := parser.doc.Relationships[0].RefA
 if deID.DocumentRefID != "" || deID.ElementRefID != "blah" {
  t.Errorf("expected RefA to be %s, got %s", "blah", parser.doc.Relationships[0].RefA)
 }

 err = parser.parsePair("RelationshipComment", "blah")
 if err != nil {
  t.Errorf("got error when calling parsePair: %v", err)
 }
 // state should still remain unchanged
 if parser.st != psOtherLicense {
  t.Errorf("expected state to be %v, got %v",
 psOtherLicense, parser.st)
 }
}

func TestParserOtherLicenseStaysAfterParsingAnnotationTags(t *testing.T) {
 parser := tvParser{
  doc:  &spdx.Document{Packages: []*spdx.Package{}},
  st:   psOtherLicense,
  pkg:  &spdx.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*spdx.File{}},
  file: &spdx.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
  otherLic: &spdx.OtherLicense{
   LicenseIdentifier: "LicenseRef-whatever",
   LicenseName:       "the whatever license",
  },
 }
 parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
 parser.pkg.Files = append(parser.pkg.Files, parser.file)
 parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

 err := parser.parsePair("Annotator", "Person: John Doe ()")
 if err != nil {
  t.Errorf("got error when calling parsePair: %v", err)
 }
 if parser.st != psOtherLicense {
  t.Errorf("parser is in state %v, expected %v", parser.st, psOtherLicense)
 }

 err = parser.parsePair("AnnotationDate", "2018-09-15T00:36:00Z")
 if
 err != nil {
  t.Errorf("got error when calling parsePair: %v", err)
 }
 if parser.st != psOtherLicense {
  t.Errorf("parser is in state %v, expected %v", parser.st, psOtherLicense)
```

```
 }

 err = parser.parsePair("AnnotationType", "REVIEW")
 if err != nil {
  t.Errorf("got error when calling parsePair: %v", err)
 }
 if parser.st != psOtherLicense {
  t.Errorf("parser is in state %v, expected %v", parser.st, psOtherLicense)
 }

 err = parser.parsePair("SPDXREF", "SPDXRef-45")
 if err != nil {
  t.Errorf("got error when calling parsePair: %v", err)
 }
 if parser.st != psOtherLicense {
  t.Errorf("parser is in state %v, expected %v", parser.st, psOtherLicense)
 }

 err = parser.parsePair("AnnotationComment", "i guess i had something to say about this particular file")
 if err != nil {
  t.Errorf("got error when calling parsePair: %v", err)
 }
 if parser.st != psOtherLicense {
  t.Errorf("parser is in state %v, expected %v", parser.st, psOtherLicense)
 }

 // and the annotation
 should be in the Document's Annotations
 if len(parser.doc.Annotations) != 1 {
  t.Fatalf("expected doc.Annotations to have len 1, got %d", len(parser.doc.Annotations))
 }
 if parser.doc.Annotations[0].Annotator.Annotator != "John Doe ()" {
  t.Errorf("expected Annotator to be %s, got %s", "John Doe ()", parser.doc.Annotations[0].Annotator)
 }
}

func TestParserOLFailsAfterParsingOtherSectionTags(t *testing.T) {
 parser := tvParser{
  doc:  &spdx.Document{Packages: []*spdx.Package{}},
  st:   psOtherLicense,
  pkg:  &spdx.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*spdx.File{}},
  file: &spdx.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
  otherLic: &spdx.OtherLicense{
   LicenseIdentifier: "LicenseRef-Lic11",
   LicenseName:       "License 11",
  },
 }
 parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
```

```
 parser.pkg.Files = append(parser.pkg.Files, parser.file)
 parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

 //
 can't go back to old sections
 err := parser.parsePair("SPDXVersion", spdx.Version)
 if err == nil {
  t.Errorf("expected error when calling parsePair, got nil")
 }
 err = parser.parsePair("PackageName", "whatever")
 if err == nil {
  t.Errorf("expected error when calling parsePair, got nil")
 }
 err = parser.parsePair("FileName", "whatever")
 if err == nil {
  t.Errorf("expected error when calling parsePair, got nil")
 }
}

// ===== Other License data section tests =====
func TestParserCanParseOtherLicenseTags(t *testing.T) {
 parser := tvParser{
  doc:  &spdx.Document{Packages: []*spdx.Package{}},
  st:   psOtherLicense,
  pkg:  &spdx.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*spdx.File{}},
  file: &spdx.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
 }
 parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
 parser.pkg.Files = append(parser.pkg.Files, parser.file)
 parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

 //
 License Identifier
 err := parser.parsePairFromOtherLicense("LicenseID", "LicenseRef-Lic11")
 if err != nil {
  t.Errorf("expected nil error, got %v", err)
 }
 if parser.otherLic.LicenseIdentifier != "LicenseRef-Lic11" {
  t.Errorf("got %v for LicenseID", parser.otherLic.LicenseIdentifier)
 }

 // Extracted Text
 err = parser.parsePairFromOtherLicense("ExtractedText", "You are permitted to do anything with the software,
hooray!")
 if err != nil {
  t.Errorf("expected nil error, got %v", err)
 }
 if parser.otherLic.ExtractedText != "You are permitted to do anything with the software, hooray!" {
```

```
 t.Errorf("got %v for ExtractedText", parser.otherLic.ExtractedText)
}

// License Name
err = parser.parsePairFromOtherLicense("LicenseName", "License 11")
if err != nil {
 t.Errorf("expected nil error, got %v", err)
}
if parser.otherLic.LicenseName != "License 11" {
 t.Errorf("got %v for LicenseName", parser.otherLic.LicenseName)
}

// License Cross Reference
crossRefs :=
[]string{
 "https://example.com/1",
 "https://example.com/2",
 "https://example.com/3",
}
for _, cr := range crossRefs {
 err = parser.parsePairFromOtherLicense("LicenseCrossReference", cr)
 if err != nil {
  t.Errorf("expected nil error, got %v", err)
 }
}
for _, refWant := range crossRefs {
 flagFound := false
 for _, refCheck := range parser.otherLic.LicenseCrossReferences {
  if refWant == refCheck {
   flagFound = true
  }
 }
 if flagFound == false {
  t.Errorf("didn't find %s in LicenseCrossReferences", refWant)
 }
}
if len(crossRefs) != len(parser.otherLic.LicenseCrossReferences) {
 t.Errorf("expected %d types in LicenseCrossReferences, got %d", len(crossRefs),
  len(parser.otherLic.LicenseCrossReferences))
}

// License Comment
err = parser.parsePairFromOtherLicense("LicenseComment", "this is a comment")
if err != nil {
 t.Errorf("expected nil error, got %v", err)
}
if parser.otherLic.LicenseComment != "this is a comment" {
 t.Errorf("got %v for
```

```
 LicenseComment", parser.otherLic.LicenseComment)
 }
}

func TestParserOLUnknownTagFails(t *testing.T) {
 parser := tvParser{
  doc:  &spdx.Document{Packages: []*spdx.Package{}},
  st:   psOtherLicense,
  pkg:  &spdx.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*spdx.File{}},
  file: &spdx.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
 }
 parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
 parser.pkg.Files = append(parser.pkg.Files, parser.file)
 parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

 err := parser.parsePairFromOtherLicense("blah", "something")
 if err == nil {
  t.Errorf("expected error from parsing unknown tag")
 }
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later
package reader

import (
 "testing"

 "github.com/spdx/tools-golang/spdx/v2/v2_1"
)

// ===== Parser other license section state change tests =====
func TestParserOLStartsNewOtherLicenseAfterParsingLicenseIDTag(t *testing.T) {
 // create the first other license
 olid1 := "LicenseRef-Lic11"
 olname1 := "License 11"

 parser := tvParser{
  doc:  &v2_1.Document{Packages: []*v2_1.Package{}},
  st:   psOtherLicense,
  pkg:  &v2_1.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*v2_1.File{}},
  file: &v2_1.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
  otherLic: &v2_1.OtherLicense{
   LicenseIdentifier: olid1,
   LicenseName:       olname1,
  },
 }
 olic1 := parser.otherLic
 parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
 parser.pkg.Files = append(parser.pkg.Files, parser.file)
```

```
parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

// the Document's OtherLicenses should
have this one only
if parser.doc.OtherLicenses[0] != olic1 {
 t.Errorf("Expected other license %v in OtherLicenses[0], got %v", olic1, parser.doc.OtherLicenses[0])
}
if parser.doc.OtherLicenses[0].LicenseName != olname1 {
 t.Errorf("expected other license name %s in OtherLicenses[0], got %s", olname1,
parser.doc.OtherLicenses[0].LicenseName)
}

// now add a new other license
olid2 := "LicenseRef-22"
olname2 := "License 22"
err := parser.parsePair("LicenseID", olid2)
if err != nil {
 t.Errorf("got error when calling parsePair: %v", err)
}
// state should be correct
if parser.st != psOtherLicense {
 t.Errorf("expected state to be %v, got %v", psOtherLicense, parser.st)
}
// and an other license should be created
if parser.otherLic == nil {
 t.Fatalf("parser didn't create new other license")
}
// also parse the new license's name
err = parser.parsePair("LicenseName", olname2)
if err != nil {
 t.Errorf("got error when calling parsePair: %v", err)
}
// state should
still be correct
if parser.st != psOtherLicense {
 t.Errorf("expected state to be %v, got %v", psOtherLicense, parser.st)
}
// and the other license name should be as expected
if parser.otherLic.LicenseName != olname2 {
 t.Errorf("expected other license name %s, got %s", olname2, parser.otherLic.LicenseName)
}
// and the Document's Other Licenses should be of size 2 and have these two
if len(parser.doc.OtherLicenses) != 2 {
 t.Fatalf("Expected OtherLicenses to have len 2, got %d", len(parser.doc.OtherLicenses))
}
if parser.doc.OtherLicenses[0] != olic1 {
 t.Errorf("Expected other license %v in OtherLicenses[0], got %v", olic1, parser.doc.OtherLicenses[0])
}
```

```
 if parser.doc.OtherLicenses[0].LicenseIdentifier != olid1 {
  t.Errorf("expected other license ID %s in OtherLicenses[0], got %s", olid1,
parser.doc.OtherLicenses[0].LicenseIdentifier)
 }
 if parser.doc.OtherLicenses[0].LicenseName != olname1 {
  t.Errorf("expected other license name %s in OtherLicenses[0], got %s",
 olname1, parser.doc.OtherLicenses[0].LicenseName)
 }
 if parser.doc.OtherLicenses[1] != parser.otherLic {
  t.Errorf("Expected other license %v in OtherLicenses[1], got %v", parser.otherLic, parser.doc.OtherLicenses[1])
 }
 if parser.doc.OtherLicenses[1].LicenseIdentifier != olid2 {
  t.Errorf("expected other license ID %s in OtherLicenses[1], got %s", olid2,
parser.doc.OtherLicenses[1].LicenseIdentifier)
 }
 if parser.doc.OtherLicenses[1].LicenseName != olname2 {
  t.Errorf("expected other license name %s in OtherLicenses[1], got %s", olname2,
parser.doc.OtherLicenses[1].LicenseName)
 }
}

func TestParserOLMovesToReviewAfterParsingReviewerTag(t *testing.T) {
 parser := tvParser{
  doc:  &v2_1.Document{Packages: []*v2_1.Package{}},
  st:   psOtherLicense,
  pkg:  &v2_1.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*v2_1.File{}},
  file: &v2_1.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
 }
 parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
 parser.pkg.Files
 = append(parser.pkg.Files, parser.file)
 parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

 err := parser.parsePair("Reviewer", "Person: John Doe")
 if err != nil {
  t.Errorf("got error when calling parsePair: %v", err)
 }
 if parser.st != psReview {
  t.Errorf("expected state to be %v, got %v", psReview, parser.st)
 }
}

func TestParserOtherLicenseStaysAfterParsingRelationshipTags(t *testing.T) {
 parser := tvParser{
  doc:  &v2_1.Document{Packages: []*v2_1.Package{}},
  st:   psOtherLicense,
  pkg:  &v2_1.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*v2_1.File{}},
  file: &v2_1.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
```

```
 otherLic: &v2_1.OtherLicense{
  LicenseIdentifier: "LicenseRef-whatever",
  LicenseName:       "the whatever license",
 },
}
parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
parser.pkg.Files = append(parser.pkg.Files, parser.file)
parser.doc.OtherLicenses = append(parser.doc.OtherLicenses,
parser.otherLic)

err := parser.parsePair("Relationship", "SPDXRef-blah CONTAINS SPDXRef-blah-else")
if err != nil {
 t.Errorf("got error when calling parsePair: %v", err)
}
// state should remain unchanged
if parser.st != psOtherLicense {
 t.Errorf("expected state to be %v, got %v", psOtherLicense, parser.st)
}
// and the relationship should be in the Document's Relationships
if len(parser.doc.Relationships) != 1 {
 t.Fatalf("expected doc.Relationships to have len 1, got %d", len(parser.doc.Relationships))
}
deID := parser.doc.Relationships[0].RefA
if deID.DocumentRefID != "" || deID.ElementRefID != "blah" {
 t.Errorf("expected RefA to be %s, got %s", "blah", parser.doc.Relationships[0].RefA)
}

err = parser.parsePair("RelationshipComment", "blah")
if err != nil {
 t.Errorf("got error when calling parsePair: %v", err)
}
// state should still remain unchanged
if parser.st != psOtherLicense {
 t.Errorf("expected state to be %v, got %v", psOtherLicense,
parser.st)
}
}

func TestParserOtherLicenseStaysAfterParsingAnnotationTags(t *testing.T) {
 parser := tvParser{
  doc:  &v2_1.Document{Packages: []*v2_1.Package{}},
  st:   psOtherLicense,
  pkg:  &v2_1.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*v2_1.File{}},
  file: &v2_1.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
  otherLic: &v2_1.OtherLicense{
   LicenseIdentifier: "LicenseRef-whatever",
   LicenseName:       "the whatever license",
  },
```

```
}
parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
parser.pkg.Files = append(parser.pkg.Files, parser.file)
parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

err := parser.parsePair("Annotator", "Person: John Doe ()")
if err != nil {
 t.Errorf("got error when calling parsePair: %v", err)
}
if parser.st != psOtherLicense {
 t.Errorf("parser is in state %v, expected %v", parser.st, psOtherLicense)
}

err = parser.parsePair("AnnotationDate", "2018-09-15T00:36:00Z")
if
err != nil {
 t.Errorf("got error when calling parsePair: %v", err)
}
if parser.st != psOtherLicense {
 t.Errorf("parser is in state %v, expected %v", parser.st, psOtherLicense)
}

err = parser.parsePair("AnnotationType", "REVIEW")
if err != nil {
 t.Errorf("got error when calling parsePair: %v", err)
}
if parser.st != psOtherLicense {
 t.Errorf("parser is in state %v, expected %v", parser.st, psOtherLicense)
}

err = parser.parsePair("SPDXREF", "SPDXRef-45")
if err != nil {
 t.Errorf("got error when calling parsePair: %v", err)
}
if parser.st != psOtherLicense {
 t.Errorf("parser is in state %v, expected %v", parser.st, psOtherLicense)
}

err = parser.parsePair("AnnotationComment", "i guess i had something to say about this particular file")
if err != nil {
 t.Errorf("got error when calling parsePair: %v", err)
}
if parser.st != psOtherLicense {
 t.Errorf("parser is in state %v, expected %v", parser.st, psOtherLicense)
}

// and the annotation
```

```
 should be in the Document's Annotations
 if len(parser.doc.Annotations) != 1 {
  t.Fatalf("expected doc.Annotations to have len 1, got %d", len(parser.doc.Annotations))
 }
 if parser.doc.Annotations[0].Annotator.Annotator != "John Doe ()" {
  t.Errorf("expected Annotator to be %s, got %s", "John Doe ()", parser.doc.Annotations[0].Annotator)
 }
}

func TestParserOLFailsAfterParsingOtherSectionTags(t *testing.T) {
 parser := tvParser{
  doc:  &v2_1.Document{Packages: []*v2_1.Package{}},
  st:   psOtherLicense,
  pkg:  &v2_1.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*v2_1.File{}},
  file: &v2_1.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
  otherLic: &v2_1.OtherLicense{
   LicenseIdentifier: "LicenseRef-Lic11",
   LicenseName:       "License 11",
  },
 }
 parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
 parser.pkg.Files = append(parser.pkg.Files, parser.file)
 parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

 //
 can't go back to old sections
 err := parser.parsePair("SPDXVersion", "SPDX-2.1")
 if err == nil {
  t.Errorf("expected error when calling parsePair, got nil")
 }
 err = parser.parsePair("PackageName", "whatever")
 if err == nil {
  t.Errorf("expected error when calling parsePair, got nil")
 }
 err = parser.parsePair("FileName", "whatever")
 if err == nil {
  t.Errorf("expected error when calling parsePair, got nil")
 }
}

// ===== Other License data section tests =====
func TestParserCanParseOtherLicenseTags(t *testing.T) {
 parser := tvParser{
  doc:  &v2_1.Document{Packages: []*v2_1.Package{}},
  st:   psOtherLicense,
  pkg:  &v2_1.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*v2_1.File{}},
  file: &v2_1.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
 }
```

```
parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
parser.pkg.Files = append(parser.pkg.Files, parser.file)
parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

//
License Identifier
err := parser.parsePairFromOtherLicense("LicenseID", "LicenseRef-Lic11")
if err != nil {
 t.Errorf("expected nil error, got %v", err)
}
if parser.otherLic.LicenseIdentifier != "LicenseRef-Lic11" {
 t.Errorf("got %v for LicenseID", parser.otherLic.LicenseIdentifier)
}

// Extracted Text
err = parser.parsePairFromOtherLicense("ExtractedText", "You are permitted to do anything with the software,
hooray!")
if err != nil {
 t.Errorf("expected nil error, got %v", err)
}
if parser.otherLic.ExtractedText != "You are permitted to do anything with the software, hooray!" {
 t.Errorf("got %v for ExtractedText", parser.otherLic.ExtractedText)
}

// License Name
err = parser.parsePairFromOtherLicense("LicenseName", "License 11")
if err != nil {
 t.Errorf("expected nil error, got %v", err)
}
if parser.otherLic.LicenseName != "License 11" {
 t.Errorf("got %v for LicenseName", parser.otherLic.LicenseName)
}

// License Cross Reference
crossRefs := []string{
 "https://example.com/1",
 "https://example.com/2",
 "https://example.com/3",
}
for
_, cr := range crossRefs {
 err = parser.parsePairFromOtherLicense("LicenseCrossReference", cr)
 if err != nil {
  t.Errorf("expected nil error, got %v", err)
 }
}
for _, refWant := range crossRefs {
 flagFound := false
```

```
 for _, refCheck := range parser.otherLic.LicenseCrossReferences {
  if refWant == refCheck {
   flagFound = true
  }
 }
 if flagFound == false {
  t.Errorf("didn't find %s in LicenseCrossReferences", refWant)
 }
}
if len(crossRefs) != len(parser.otherLic.LicenseCrossReferences) {
 t.Errorf("expected %d types in LicenseCrossReferences, got %d", len(crossRefs),
  len(parser.otherLic.LicenseCrossReferences))
}

// License Comment
err = parser.parsePairFromOtherLicense("LicenseComment", "this is a comment")
if err != nil {
 t.Errorf("expected nil error, got %v", err)
}
if parser.otherLic.LicenseComment != "this is a comment" {
 t.Errorf("got %v for LicenseComment",
parser.otherLic.LicenseComment)
}
}

func TestParserOLUnknownTagFails(t *testing.T) {
 parser := tvParser{
  doc:  &v2_1.Document{Packages: []*v2_1.Package{}},
  st:   psOtherLicense,
  pkg:  &v2_1.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*v2_1.File{}},
  file: &v2_1.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
 }
 parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
 parser.pkg.Files = append(parser.pkg.Files, parser.file)
 parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

 err := parser.parsePairFromOtherLicense("blah", "something")
 if err == nil {
  t.Errorf("expected error from parsing unknown tag")
 }
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package writer

import (
 "fmt"
 "io"
```

```
 spdx "github.com/spdx/tools-golang/spdx/v2/v2_3"
)

func renderOtherLicense(ol *spdx.OtherLicense, w io.Writer) error {
 if ol.LicenseIdentifier != "" {
  fmt.Fprintf(w, "LicenseID: %s\n", ol.LicenseIdentifier)
 }
 if ol.ExtractedText != "" {
  fmt.Fprintf(w, "ExtractedText: %s\n", textify(ol.ExtractedText))
 }
 if ol.LicenseName != "" {
  fmt.Fprintf(w, "LicenseName: %s\n", ol.LicenseName)
 }
 for _, s := range ol.LicenseCrossReferences {
  fmt.Fprintf(w, "LicenseCrossReference: %s\n", s)
 }
 if ol.LicenseComment != "" {
  fmt.Fprintf(w, "LicenseComment: %s\n", textify(ol.LicenseComment))
 }

 fmt.Fprintf(w, "\n")

 return nil
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package reader

import (
 "fmt"

 "github.com/spdx/tools-golang/spdx/v2/v2_2"
)

func (parser *tvParser) parsePairFromOtherLicense(tag string, value string) error {
 switch tag {
 // tag for creating new other license section
 case "LicenseID":
  parser.otherLic = &v2_2.OtherLicense{}
  parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)
  parser.otherLic.LicenseIdentifier = value
 case "ExtractedText":
  parser.otherLic.ExtractedText = value
 case "LicenseName":
  parser.otherLic.LicenseName = value
 case "LicenseCrossReference":
  parser.otherLic.LicenseCrossReferences = append(parser.otherLic.LicenseCrossReferences, value)
```

```
 case "LicenseComment":
  parser.otherLic.LicenseComment = value
 // for relationship tags, pass along but don't change state
 case "Relationship":
  parser.rln = &v2_2.Relationship{}
  parser.doc.Relationships = append(parser.doc.Relationships, parser.rln)
  return parser.parsePairForRelationship(tag,
 value)
 case "RelationshipComment":
  return parser.parsePairForRelationship(tag, value)
 // for annotation tags, pass along but don't change state
 case "Annotator":
  parser.ann = &v2_2.Annotation{}
  parser.doc.Annotations = append(parser.doc.Annotations, parser.ann)
  return parser.parsePairForAnnotation(tag, value)
 case "AnnotationDate":
  return parser.parsePairForAnnotation(tag, value)
 case "AnnotationType":
  return parser.parsePairForAnnotation(tag, value)
 case "SPDXREF":
  return parser.parsePairForAnnotation(tag, value)
 case "AnnotationComment":
  return parser.parsePairForAnnotation(tag, value)
 // tag for going on to review section (DEPRECATED)
 case "Reviewer":
  parser.st = psReview
  return parser.parsePairFromReview(tag, value)
 default:
  return fmt.Errorf("received unknown tag %v in OtherLicense section", tag)
 }

 return nil
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package reader

import (
 "reflect"
 "sort"
 "testing"

 gordfParser "github.com/spdx/gordf/rdfloader/parser"
)

func Test_rdfParser2_2_getAnyLicenseFromNode(t *testing.T) {
 // since this function is a mux, we just have to make sure that with each
 // type of input, it is able to redirect the request to an appropriate
```

```
// license getter.

// TestCase 1: input node is just a node string without any associated
//      triple (either a NONE|NOASSERTION) because for other case,
//      the license should've been associated with other triples
parser, _ := parserFromBodyContent(``)
inputNode := &gordfParser.Node{
 NodeType: gordfParser.IRI,
 ID:       NS_SPDX + "NONE",
}
lic, err := parser.getAnyLicenseFromNode(inputNode)
if err != nil {
 t.Errorf("error parsing a valid license input: %v", err)
}
// checking if the return type is a SpecialLicense
switch lic.(type) {
case SpecialLicense:
default:
 t.Errorf("expected
license to be of type SpecialLicense, found %v", reflect.TypeOf(lic))
}

// TestCase 2: DisjunctiveLicenseSet:
parser, _ = parserFromBodyContent(`
 <spdx:DisjunctiveLicenseSet>
  <spdx:member rdf:resource="http://spdx.org/licenses/Nokia"/>
  <spdx:member rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
 </spdx:DisjunctiveLicenseSet>
`)
inputNode = parser.gordfParserObj.Triples[0].Subject
lic, err = parser.getAnyLicenseFromNode(inputNode)
if err != nil {
 t.Errorf("error parsing a valid license input: %v", err)
}
// checking if the return type is a DisjunctiveLicenseSet
switch lic.(type) {
case DisjunctiveLicenseSet:
default:
 t.Errorf("expected license to be of type DisjunctiveLicenseSet, found %v", reflect.TypeOf(lic))
}

// TestCase 3: ConjunctiveLicenseSet:
parser, _ = parserFromBodyContent(`
 <spdx:ConjunctiveLicenseSet>
  <spdx:member rdf:resource="http://spdx.org/licenses/Nokia"/>
  <spdx:member rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
 </spdx:ConjunctiveLicenseSet>
`)
```

```
inputNode
= parser.gordfParserObj.Triples[0].Subject
lic, err = parser.getAnyLicenseFromNode(inputNode)
if err != nil {
 t.Errorf("error parsing a valid license input: %v", err)
}
// checking if the return type is a ConjunctiveLicenseSet
switch lic.(type) {
case ConjunctiveLicenseSet:
default:
 t.Errorf("expected license to be of type ConjunctiveLicenseSet, found %v", reflect.TypeOf(lic))
}

// TestCase 4: ExtractedLicensingInfo
parser, _ = parserFromBodyContent(`
 <spdx:ExtractedLicensingInfo rdf:about="http://spdx.dev/spdx.rdf#LicenseRef-Freeware">
  <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
  <spdx:name>freeware</spdx:name>
  <spdx:extractedText><![CDATA[...]]></spdx:extractedText>
   </spdx:ExtractedLicensingInfo>
`)
inputNode = parser.gordfParserObj.Triples[0].Subject
lic, err = parser.getAnyLicenseFromNode(inputNode)
if err != nil {
 t.Errorf("error parsing a valid license input: %v", err)
}
// checking if the return
type is a ExtractedLicensingInfo
switch lic.(type) {
case ExtractedLicensingInfo:
default:
 t.Errorf("expected license to be of type ExtractedLicensingInfo, found %v", reflect.TypeOf(lic))
}

// TestCase 4: ExtractedLicensingInfo
parser, _ = parserFromBodyContent(`
 <spdx:ExtractedLicensingInfo rdf:about="http://spdx.dev/spdx.rdf#LicenseRef-Freeware">
  <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
  <spdx:name>freeware</spdx:name>
  <spdx:extractedText><![CDATA[...]]></spdx:extractedText>
   </spdx:ExtractedLicensingInfo>
`)
inputNode = parser.gordfParserObj.Triples[0].Subject
lic, err = parser.getAnyLicenseFromNode(inputNode)
if err != nil {
 t.Errorf("error parsing a valid license input: %v", err)
}
// checking if the return type is a ExtractedLicensingInfo
```

```
switch lic.(type) {
case ExtractedLicensingInfo:
default:
 t.Errorf("expected license to be of type ExtractedLicensingInfo, found %v", reflect.TypeOf(lic))
}

// TestCase 5: License
parser, _ = parserFromBodyContent(`
 <spdx:License
rdf:about="http://spdx.org/licenses/Apache-2.0">
  <spdx:standardLicenseTemplate>&lt;&gt; Apache License Version 2.0, January 2004
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by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such
```

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```
  <rdfs:seeAlso>http://www.apache.org/licenses/LICENSE-2.0</rdfs:seeAlso>
  <spdx:name>Apache License 2.0</spdx:name>
  <spdx:licenseId>Apache-2.0</spdx:licenseId>
  <spdx:isOsiApproved>true</spdx:isOsiApproved>
  <rdfs:seeAlso>http://www.opensource.org/licenses/Apache-2.0</rdfs:seeAlso>
  <spdx:licenseText>...</spdx:licenseText>
  <spdx:standardLicenseHeader>...</spdx:standardLicenseHeader>
  </spdx:License>
`)
inputNode = parser.gordfParserObj.Triples[0].Subject
lic, err = parser.getAnyLicenseFromNode(inputNode)
if
err != nil {
 t.Errorf("error parsing a valid license input: %v", err)
}
// checking if the return type is a License
switch lic.(type) {
case License:
default:
 t.Errorf("expected license to be of type License, found %v", reflect.TypeOf(lic))
}

// TestCase 5: WithExceptionOperator
parser, _ = parserFromBodyContent(`
 <spdx:WithExceptionOperator>
  <spdx:licenseException>
   <spdx:LicenseException rdf:nodeID="A1">
    <spdx:example></spdx:example>
    <spdx:licenseExceptionId>Libtool-exception</spdx:licenseExceptionId>
    <rdfs:comment></rdfs:comment>
   </spdx:LicenseException>
  </spdx:licenseException>
  <spdx:member rdf:resource="http://spdx.org/licenses/GPL-2.0-or-later"/>
 </spdx:WithExceptionOperator>
`)
inputNode = parser.gordfParserObj.Triples[0].Subject
lic, err = parser.getAnyLicenseFromNode(inputNode)
if err != nil {
```

```
 t.Errorf("error parsing a valid license input: %v", err)
}
// checking if the return type is a WithExceptionOperator
switch
lic.(type) {
case WithExceptionOperator:
default:
 t.Errorf("expected license to be of type WithExceptionOperator, found %v", reflect.TypeOf(lic))
}

// TestCase 6: OrLaterOperator
parser, _ = parserFromBodyContent(`
 <spdx:OrLaterOperator>
  <spdx:member>
   <spdx:SimpleLicensingInfo>
    <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
    <spdx:name>freeware</spdx:name>
   </spdx:SimpleLicensingInfo>
  </spdx:member>
 </spdx:OrLaterOperator>
`)
inputNode = parser.gordfParserObj.Triples[0].Subject
lic, err = parser.getAnyLicenseFromNode(inputNode)
if err != nil {
 t.Errorf("error parsing a valid license input: %v", err)
}
// checking if the return type is a OrLaterOperator
switch lic.(type) {
case OrLaterOperator:
default:
 t.Errorf("expected license to be of type OrLaterOperator, found %v", reflect.TypeOf(lic))
}

// TestCase 7: checking if an unknown license raises an error.
parser, _ = parserFromBodyContent(`
 <spdx:UnknownLicense>
  <spdx:unknownTag
/>
 </spdx:UnknownLicense>
`)
node := parser.gordfParserObj.Triples[0].Subject
_, err = parser.getAnyLicenseFromNode(node)
t.Log(err)
if err == nil {
 t.Errorf("should've raised an error for invalid input")
}

// TestCase 8: cyclic dependent license must raise an error.
```

```
 parser, _ = parserFromBodyContent(`
  <spdx:ConjunctiveLicenseSet rdf:about="#SPDXRef-RecursiveLicense">
   <spdx:member rdf:resource="http://spdx.org/licenses/GPL-2.0-or-later"/>
   <spdx:member>
    <spdx:ConjunctiveLicenseSet rdf:about="#SPDXRef-RecursiveLicense">
     <spdx:member rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
     <spdx:member rdf:resource="http://spdx.org/spdxdocs/spdx-example-444504E0-4F89-41D3-9A0C-
0305E82C3301#SPDXRef-RecursiveLicense"/>
    </spdx:ConjunctiveLicenseSet>
   </spdx:member>
  </spdx:ConjunctiveLicenseSet>
 `)
 node = parser.gordfParserObj.Triples[0].Subject
 _, err = parser.getAnyLicenseFromNode(node)
 if err == nil {
  t.Errorf("expected an error due to cyclic
 dependent license. found %v", err)
 }
}

func Test_rdfParser2_2_getConjunctiveLicenseSetFromNode(t *testing.T) {
 var parser *rdfParser2_2
 var err error
 var licenseNode *gordfParser.Node
 var license ConjunctiveLicenseSet

 // TestCase 1: invalid license member
 parser, _ = parserFromBodyContent(`
  <spdx:ConjunctiveLicenseSet>
   <spdx:member rdf:resource="http://spdx.org/licenses/Unknown"/>
   <spdx:member rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
  </spdx:ConjunctiveLicenseSet>
 `)
 licenseNode = parser.gordfParserObj.Triples[0].Subject
 _, err = parser.getConjunctiveLicenseSetFromNode(licenseNode)
 if err == nil {
  t.Errorf("expected an error saying invalid license member, found <nil>")
 }

 // TestCase 2: invalid predicate in the licenseSet.
 parser, _ = parserFromBodyContent(`
  <spdx:ConjunctiveLicenseSet>
   <spdx:member rdf:resource="http://spdx.org/licenses/CC0-1.0"/>
   <spdx:member rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
   <spdx:unknownTag />
  </spdx:ConjunctiveLicenseSet>
 `)
 licenseNode
```

```
 = parser.gordfParserObj.Triples[0].Subject
 _, err = parser.getConjunctiveLicenseSetFromNode(licenseNode)
 if err == nil {
  t.Errorf("expected an error saying invalid predicate found")
 }

 // TestCase 3: valid example.
 parser, _ = parserFromBodyContent(`
  <spdx:ConjunctiveLicenseSet>
   <spdx:member rdf:resource="http://spdx.org/licenses/Nokia"/>
   <spdx:member rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
  </spdx:ConjunctiveLicenseSet>
 `)
 licenseNode = parser.gordfParserObj.Triples[0].Subject
 license, err = parser.getConjunctiveLicenseSetFromNode(licenseNode)
 if err != nil {
  t.Errorf("unexpected error parsing licenseSet: %v", err)
 }
 nMembers := len(license.members)
 if nMembers != 2 {
  t.Errorf("expected licenseSet to have 2 members, found %d", nMembers)
 }
 licenseMembers := mapLicensesToStrings(license.members)
 expectedLicenseMembers := []string{"LGPL-2.0", "Nokia"}
 sort.Strings(licenseMembers)
 if !reflect.DeepEqual(licenseMembers,
 expectedLicenseMembers) {
  t.Errorf("expected %v, found %v", expectedLicenseMembers, licenseMembers)
 }
}

func Test_rdfParser2_2_getDisjunctiveLicenseSetFromNode(t *testing.T) {
 var parser *rdfParser2_2
 var err error
 var licenseNode *gordfParser.Node
 var license DisjunctiveLicenseSet

 // TestCase 1: invalid license member
 parser, _ = parserFromBodyContent(`
  <spdx:DisjunctiveLicenseSet>
   <spdx:member rdf:resource="http://spdx.org/licenses/Unknown"/>
   <spdx:member rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
  </spdx:DisjunctiveLicenseSet>
 `)
 licenseNode = parser.gordfParserObj.Triples[0].Subject
 _, err = parser.getDisjunctiveLicenseSetFromNode(licenseNode)
 if err == nil {
  t.Errorf("expected an error saying invalid license member, found <nil>")
```

```
 }

 // TestCase 2: invalid predicate in the licenseSet.
 parser, _ = parserFromBodyContent(`
  <spdx:DisjunctiveLicenseSet>
   <spdx:member rdf:resource="http://spdx.org/licenses/Unknown"/>
   <spdx:member
 rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
   <spdx:unknownTag />
  </spdx:DisjunctiveLicenseSet>
 `)
 licenseNode = parser.gordfParserObj.Triples[0].Subject
 _, err = parser.getDisjunctiveLicenseSetFromNode(licenseNode)
 if err == nil {
  t.Errorf("expected an error saying invalid predicate found")
 }

 // TestCase 3: valid example.
 parser, _ = parserFromBodyContent(`
  <spdx:DisjunctiveLicenseSet>
   <spdx:member rdf:resource="http://spdx.org/licenses/Nokia"/>
   <spdx:member rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
  </spdx:DisjunctiveLicenseSet>
 `)
 licenseNode = parser.gordfParserObj.Triples[0].Subject
 license, err = parser.getDisjunctiveLicenseSetFromNode(licenseNode)
 if err != nil {
  t.Errorf("unexpected error parsing licenseSet: %v", err)
 }
 nMembers := len(license.members)
 if nMembers != 2 {
  t.Errorf("expected licenseSet to have 2 members, found %d", nMembers)
 }
 licenseMembers := mapLicensesToStrings(license.members)
 expectedLicenseMembers := []string{"LGPL-2.0",
 "Nokia"}
 sort.Strings(licenseMembers)
 if !reflect.DeepEqual(licenseMembers, expectedLicenseMembers) {
  t.Errorf("expected %v, found %v", expectedLicenseMembers, licenseMembers)
 }
}

func Test_rdfParser2_2_getLicenseExceptionFromNode(t *testing.T) {
 var licenseException LicenseException
 var err error
 var node *gordfParser.Node
 var parser *rdfParser2_2
```

```
// TestCase 1: invalid value for rdf:seeAlso
parser, _ = parserFromBodyContent(`
 <spdx:LicenseException>
  <rdfs:seeAlso>see-also</rdfs:seeAlso>
  <spdx:example></spdx:example>
  <spdx:licenseExceptionId>Libtool-exception</spdx:licenseExceptionId>
  <rdfs:comment></rdfs:comment>
 </spdx:LicenseException>
`)
node = parser.gordfParserObj.Triples[0].Subject
_, err = parser.getLicenseExceptionFromNode(node)
if err == nil {
 t.Errorf("should've raised an error due to invalid uri for rdfs:seeAlso")
}

// TestCase 2: invalid predicate for licenseException
// TestCase 1: invalid value for rdf:seeAlso
parser,
_ = parserFromBodyContent(`
 <spdx:LicenseException>
  <spdx:example></spdx:example>
  <spdx:licenseExceptionId>Libtool-exception</spdx:licenseExceptionId>
  <rdfs:unknown></rdfs:unknown>
 </spdx:LicenseException>
`)
node = parser.gordfParserObj.Triples[0].Subject
_, err = parser.getLicenseExceptionFromNode(node)
if err == nil {
 t.Errorf("should've raised an error due to invalid predicate")
}

// TestCase 3: everything valid
// TestCase 1: invalid value for rdf:seeAlso
parser, _ = parserFromBodyContent(`
 <spdx:LicenseException>
  <rdfs:seeAlso rdf:resource="http://www.opensource.org/licenses/GPL-3.0"/>
  <spdx:example>no example</spdx:example>
  <spdx:licenseExceptionId>Libtool-exception</spdx:licenseExceptionId>
  <rdfs:comment>no comments</rdfs:comment>
  <spdx:licenseExceptionText>text</spdx:licenseExceptionText>
  <spdx:name>name</spdx:name>
 </spdx:LicenseException>
`)
node = parser.gordfParserObj.Triples[0].Subject
licenseException, err = parser.getLicenseExceptionFromNode(node)
if
err != nil {
 t.Fatalf("unexpected error while parsing a valid licenseException")
```

```
 }
 expectedCrossReference := "http://www.opensource.org/licenses/GPL-3.0"
 if licenseException.seeAlso != expectedCrossReference {
  t.Errorf("expected: %s, found: %s", expectedCrossReference, licenseException.seeAlso)
 }
 expectedExample := "no example"
 if licenseException.example != expectedExample {
  t.Errorf("expected: %s, got: %s", expectedExample, licenseException.example)
 }
 if licenseException.licenseExceptionId != "Libtool-exception" {
  t.Errorf("expected: %s, got: %s", "Libtool-exception", licenseException.licenseExceptionId)
 }
 if licenseException.comment != "no comments" {
  t.Errorf("expected: %s, got: %s", "no comments", licenseException.comment)
 }
 if licenseException.licenseExceptionText != "text" {
  t.Errorf("expected: '%s', got: '%s'", "text", licenseException.licenseExceptionText)
 }
 if licenseException.name != "name" {
  t.Errorf("expected:
 '%s', got: '%s'", "name", licenseException.name)
 }
}

func Test_rdfParser2_2_getLicenseFromNode(t *testing.T) {
 var parser *rdfParser2_2
 var node *gordfParser.Node
 var license License
 var err error

 // TestCase 1: isOsiApproved is not a valid boolean
 parser, _ = parserFromBodyContent(`
  <spdx:License>
   <spdx:isOsiApproved>no</spdx:isOsiApproved>
  </spdx:License>
 `)
 node = parser.gordfParserObj.Triples[0].Subject
 license, err = parser.getLicenseFromNode(node)
 if err == nil {
  t.Errorf("expected function to raise an error stating isOsiApproved should be a valid boolean type")
 }

 // TestCase 2: rdf:seeAlso not a valid uri must raise an error
 parser, _ = parserFromBodyContent(`
  <spdx:License>
   <rdfs:seeAlso>uri</rdfs:seeAlso>
  </spdx:License>
 `)
```

```
node = parser.gordfParserObj.Triples[0].Subject
license, err = parser.getLicenseFromNode(node)
if err == nil {
 t.Errorf("expected function to raise an error stating invalid uri for rdfs:seeAlso")
}

// TestCase 3:
isDeprecatedLicenseId is not a valid boolean
parser, _ = parserFromBodyContent(`
 <spdx:License>
  <spdx:isDeprecatedLicenseId>yes</spdx:isDeprecatedLicenseId>
 </spdx:License>
`)
node = parser.gordfParserObj.Triples[0].Subject
license, err = parser.getLicenseFromNode(node)
if err == nil {
 t.Errorf("expected function to raise an error stating isDeprecatedLicenseId should be a valid boolean type")
}

// TestCase 4: isFsfLibre is not a valid boolean
parser, _ = parserFromBodyContent(`
 <spdx:License>
  <spdx:isFsfLibre>no</spdx:isFsfLibre>
 </spdx:License>
`)
node = parser.gordfParserObj.Triples[0].Subject
license, err = parser.getLicenseFromNode(node)
if err == nil {
 t.Errorf("expected function to raise an error stating isFsfLibre should be a valid boolean type")
}

// TestCase 5: invalid triple for License:
parser, _ = parserFromBodyContent(`
 <spdx:License>
  <spdx:unknown />
 </spdx:License>
`)
node = parser.gordfParserObj.Triples[0].Subject
license,
err = parser.getLicenseFromNode(node)
if err == nil {
 t.Errorf("invalid predicate should've raised an error, got <nil>")
}

// TestCase 5: everything valid:
parser, _ = parserFromBodyContent(`
 <spdx:License rdf:about="http://spdx.org/licenses/GPL-3.0-or-later">
  <rdfs:seeAlso>http://www.opensource.org/licenses/GPL-3.0</rdfs:seeAlso>
```

```
  <spdx:isOsiApproved>true</spdx:isOsiApproved>
  <spdx:licenseText>GNU GENERAL PUBLIC LICENSE Version 3, 29 June 2007</spdx:licenseText>
  <spdx:name>GNU General Public License v3.0 or later</spdx:name>
  <spdx:standardLicenseHeaderTemplate>...</spdx:standardLicenseHeaderTemplate>
  <spdx:licenseId>GPL-3.0-or-later</spdx:licenseId>
  <rdfs:comment>This license was released: 29 June 2007</rdfs:comment>
  <spdx:isFsfLibre>true</spdx:isFsfLibre>
  <spdx:standardLicenseHeader>...</spdx:standardLicenseHeader>
  <spdx:standardLicenseTemplate>....</spdx:standardLicenseTemplate>
 </spdx:License>
`)
node = parser.gordfParserObj.Triples[0].Subject
license,
err = parser.getLicenseFromNode(node)
if err != nil {
 t.Errorf("error parsing a valid input: %v", err)
}
expectedSeeAlso := "http://www.opensource.org/licenses/GPL-3.0"
if len(license.seeAlso) != 1 {
 t.Fatalf("expected seeAlso to have 1 element, got %d", len(license.seeAlso))
}
if license.seeAlso[len(license.seeAlso)-1] != expectedSeeAlso {
 t.Errorf("expected %s, got %s", expectedSeeAlso, license.seeAlso)
}
if license.isOsiApproved != true {
 t.Errorf("expected %t, got %t", true, license.isOsiApproved)
}
expectedLicenseText := "GNU GENERAL PUBLIC LICENSE Version 3, 29 June 2007"
if license.licenseText != expectedLicenseText {
 t.Errorf("expected %s, got %s", expectedSeeAlso, license.licenseText)
}
expectedName := "GNU General Public License v3.0 or later"
if license.name != expectedName {
 t.Errorf("expected %s, got %s", expectedName, license.name)
}
expectedstdLicHeader := "..."
if license.standardLicenseHeader != expectedstdLicHeader {
 t.Errorf("expected
%s, got %s", expectedstdLicHeader, license.standardLicenseHeader)
}
expectedLicenseId := "GPL-3.0-or-later"
if expectedLicenseId != license.licenseID {
 t.Errorf("expected %s, got %s", expectedLicenseId, license.licenseID)
}
expectedLicenseComment := "This license was released: 29 June 2007"
if expectedLicenseComment != license.comment {
 t.Errorf("expected %s, got %s", expectedLicenseComment, license.comment)
}
```

```
 expectedstdLicTemplate := "..."
 if license.standardLicenseHeader != expectedstdLicTemplate {
  t.Errorf("expected %s, got %s", expectedstdLicTemplate, license.standardLicenseTemplate)
 }
 expectedstdLicHeaderTemplate := "..."
 if license.standardLicenseHeaderTemplate != expectedstdLicHeaderTemplate {
  t.Errorf("expected %s, got %s", expectedstdLicHeaderTemplate, license.standardLicenseHeaderTemplate)
 }
 if license.isFsfLibre != true {
  t.Errorf("expected %t, got %t", true, license.isFsfLibre)
 }
}

func Test_rdfParser2_2_getOrLaterOperatorFromNode(t *testing.T)
 {
 var parser *rdfParser2_2
 var node *gordfParser.Node
 var err error

 // TestCase 1: more than one member in the OrLaterOperator tag must raise an error
 parser, _ = parserFromBodyContent(`
  <spdx:OrLaterOperator>
   <spdx:member>
    <spdx:SimpleLicensingInfo>
     <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
     <spdx:name>freeware</spdx:name>
    </spdx:SimpleLicensingInfo>
   </spdx:member>
   <spdx:member rdf:resource="http://spdx.org/licenses/Nokia"/>
  </spdx:OrLaterOperator>
 `)
 node = parser.gordfParserObj.Triples[0].Subject
 _, err = parser.getOrLaterOperatorFromNode(node)
 if err == nil {
  t.Error("expected an error due to more than one members, got <nil>")
 }

 // TestCase 2: Invalid predicate must raise an error
 parser, _ = parserFromBodyContent(`
  <spdx:OrLaterOperator>
   <spdx:members>
    <spdx:SimpleLicensingInfo>
     <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
     <spdx:name>freeware</spdx:name>
    </spdx:SimpleLicensingInfo>
   </spdx:members>
  </spdx:OrLaterOperator>
 `)
```

```
 node
 = parser.gordfParserObj.Triples[0].Subject
 _, err = parser.getOrLaterOperatorFromNode(node)
 if err == nil {
  t.Error("expected an error due to invalid predicate, got <nil>")
 }

 // TestCase 5: invalid member
 parser, _ = parserFromBodyContent(`
  <spdx:OrLaterOperator>
   <spdx:member>
    <spdx:SimpleLicensingInfo>
     <spdx:invalidTag />
     <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
     <spdx:name>freeware</spdx:name>
    </spdx:SimpleLicensingInfo>
   </spdx:member>
  </spdx:OrLaterOperator>
 `)
 node = parser.gordfParserObj.Triples[0].Subject
 _, err = parser.getOrLaterOperatorFromNode(node)
 if err == nil {
  t.Errorf("expected an error parsing invalid license member, got %v", err)
 }

 // TestCase 4: valid input
 parser, _ = parserFromBodyContent(`
  <spdx:OrLaterOperator>
   <spdx:member>
    <spdx:SimpleLicensingInfo>
     <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
     <spdx:name>freeware</spdx:name>
    </spdx:SimpleLicensingInfo>
   </spdx:member>
  </spdx:OrLaterOperator>
 `)
 node
 = parser.gordfParserObj.Triples[0].Subject
 _, err = parser.getOrLaterOperatorFromNode(node)
 if err != nil {
  t.Errorf("unexpected error parsing a valid input: %v", err)
 }
}

func Test_rdfParser2_2_getSimpleLicensingInfoFromNode(t *testing.T) {
 // nothing to test. The just provides an interface to call function that
 // uses triples to render a SimpleLicensingInfo.
 parser, _ := parserFromBodyContent(`
```

```
 <spdx:SimpleLicensingInfo>
  <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
  <spdx:name>freeware</spdx:name>
 </spdx:SimpleLicensingInfo>
`)
node := parser.gordfParserObj.Triples[0].Subject
_, err := parser.getSimpleLicensingInfoFromNode(node)
if err != nil {
 t.Errorf("error parsing a valid input: %v", err)
}
}

func Test_rdfParser2_2_getSimpleLicensingInfoFromTriples(t *testing.T) {
 var parser *rdfParser2_2
 var err error
 var license SimpleLicensingInfo

 // TestCase 1: invalid
 rdf:seeAlso attribute
 parser, _ = parserFromBodyContent(`
  <spdx:SimpleLicensingInfo>
   <rdfs:seeAlso>an invalid uri</rdfs:seeAlso>
  </spdx:SimpleLicensingInfo>
   `)
 _, err = parser.getSimpleLicensingInfoFromTriples(parser.gordfParserObj.Triples)
 if err == nil {
  t.Error("expected an error reporting invalid uri for rdf:seeAlso, got <nil>")
 }

 // TestCase 2: invalid predicate must raise an error
 parser, _ = parserFromBodyContent(`
  <spdx:SimpleLicensingInfo>
   <rdfs:invalidPredicate />
  </spdx:SimpleLicensingInfo>
   `)
 _, err = parser.getSimpleLicensingInfoFromTriples(parser.gordfParserObj.Triples)
 if err == nil {
  t.Error("expected an error reporting invalid predicate, got <nil>")
 }

 // TestCase 3: valid example
 parser, _ = parserFromBodyContent(`
  <spdx:SimpleLicensingInfo>
   <rdfs:comment>comment</rdfs:comment>
   <spdx:licenseId>lid</spdx:licenseId>
   <spdx:name>name</spdx:name>
   <rdfs:seeAlso>https://opensource.org/licenses/MPL-1.0</rdfs:seeAlso>
   <spdx:example>example</spdx:example>
```

```
 </spdx:SimpleLicensingInfo>
   `)
 license, err = parser.getSimpleLicensingInfoFromTriples(parser.gordfParserObj.Triples)
 if err != nil {
  t.Fatalf("unexpected error: %v", err)
 }
 expectedComment := "comment"
 expectedLicenseId := "lid"
 expectedName := "name"
 expectedSeeAlso := "https://opensource.org/licenses/MPL-1.0"
 expectedExample := "example"
 if expectedComment != license.comment {
  t.Errorf("expected %v, got %v", expectedComment, license.comment)
 }
 if expectedLicenseId != license.licenseID {
  t.Errorf("expected %v, got %v", expectedLicenseId, license.licenseID)
 }
 if expectedName != license.name {
  t.Errorf("expected %v, got %v", expectedName, license.name)
 }
 if len(license.seeAlso) != 1 {
  t.Fatalf("expected seeAlso to have 1 element, found %d", len(license.seeAlso))
 }
 if license.seeAlso[0] != expectedSeeAlso {
  t.Errorf("expected %v, got %v", expectedSeeAlso, license.seeAlso[0])
 }
 if license.example != expectedExample
 {
  t.Errorf("expected %v, got %v", expectedExample, license.example)
 }
}

func Test_rdfParser2_2_getSpecialLicenseFromNode(t *testing.T) {
 var parser *rdfParser2_2
 var node *gordfParser.Node
 var license SpecialLicense

 // TestCase 1: NONE
 parser, _ = parserFromBodyContent(``)
 node = &gordfParser.Node{
  NodeType: gordfParser.IRI,
  ID:       NS_SPDX + "NONE",
 }
 license, err := parser.getSpecialLicenseFromNode(node)
 if err != nil {
  t.Errorf("error parsing a valid node: %v", err)
 }
 if license.value != "NONE" {
```

```
 t.Errorf("expected %s, got %s", "NONE", license.value)
 }

 // TestCase 2: NOASSERTION
 parser, _ = parserFromBodyContent(``)
 node = &gordfParser.Node{
  NodeType: gordfParser.IRI,
  ID:       NS_SPDX + "NOASSERTION",
 }
 license, err = parser.getSpecialLicenseFromNode(node)
 if err != nil {
  t.Errorf("error parsing a valid node: %v", err)
 }
 if license.value != "NOASSERTION" {
  t.Errorf("expected %s, got %s", "NOASSERTION", license.value)
 }

 // TestCase 4:
 undefined standard license
 parser, _ = parserFromBodyContent(``)
 node = &gordfParser.Node{
  NodeType: gordfParser.IRI,
  ID:       "https://opensource.org/licenses/unknown",
 }
 _, err = parser.getSpecialLicenseFromNode(node)
 if err == nil {
  t.Errorf("expected an error saying invalid license")
 }

 // TestCase 4: valid standard license
 parser, _ = parserFromBodyContent(``)
 node = &gordfParser.Node{
  NodeType: gordfParser.IRI,
  ID:       "https://opensource.org/licenses/MPL-1.0",
 }
 license, err = parser.getSpecialLicenseFromNode(node)
 if err != nil {
  t.Errorf("error parsing a valid node: %v", err)
 }
 if license.value != "MPL-1.0" {
  t.Errorf("expected %s, got %s", "MPL-1.0", license.value)
 }
}

func Test_rdfParser2_2_getWithExceptionOperatorFromNode(t *testing.T) {
 var parser *rdfParser2_2
 var node *gordfParser.Node
 var err error
```

```
// TestCase 1: more than one member in the OrLaterOperator tag must raise an error
parser, _ = parserFromBodyContent(`
 <spdx:WithExceptionOperator>
  <spdx:member>
   <spdx:SimpleLicensingInfo>
    <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
    <spdx:name>freeware</spdx:name>
   </spdx:SimpleLicensingInfo>
  </spdx:member>
  <spdx:member
rdf:resource="http://spdx.org/licenses/Nokia"/>
 </spdx:WithExceptionOperator>
`)
node = parser.gordfParserObj.Triples[0].Subject
_, err = parser.getWithExceptionOperatorFromNode(node)
if err == nil {
 t.Error("expected an error due to more than one members, got <nil>")
}

// TestCase 2: Invalid predicate must raise an error
parser, _ = parserFromBodyContent(`
 <spdx:WithExceptionOperator>
  <spdx:members>
   <spdx:SimpleLicensingInfo>
    <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
    <spdx:name>freeware</spdx:name>
   </spdx:SimpleLicensingInfo>
  </spdx:members>
 </spdx:WithExceptionOperator>
`)
node = parser.gordfParserObj.Triples[0].Subject
_, err = parser.getWithExceptionOperatorFromNode(node)
if err == nil {
 t.Error("expected
an error due to invalid predicate, got <nil>")
}

// TestCase 3: Invalid member
parser, _ = parserFromBodyContent(`
 <spdx:WithExceptionOperator>
  <spdx:member>
   <spdx:License rdf:about="http://spdx.org/licenses/GPL-2.0-or-later">
    <spdx:unknownTag />
   </spdx:License>
  </spdx:member>
 </spdx:WithExceptionOperator>
`)
```

```
node = parser.gordfParserObj.Triples[0].Subject
_, err = parser.getWithExceptionOperatorFromNode(node)
if err == nil {
 t.Error("expected an error due to error parsing a member, got <nil>")
}

// TestCase 4: Invalid licenseException
parser, _ = parserFromBodyContent(`
 <spdx:WithExceptionOperator>
  <spdx:member>
   <spdx:License rdf:about="http://spdx.org/licenses/GPL-2.0-or-later"/>
  </spdx:member>
  <spdx:licenseException>
   <spdx:LicenseException>
    <spdx:invalidTag />
    <spdx:example>example</spdx:example>
    <spdx:licenseExceptionId>Libtool-exception</spdx:licenseExceptionId>
    <rdfs:comment>comment</rdfs:comment>
   </spdx:LicenseException>
  </spdx:licenseException>
 </spdx:WithExceptionOperator>
`)
node
= parser.gordfParserObj.Triples[0].Subject
_, err = parser.getWithExceptionOperatorFromNode(node)
if err == nil {
 t.Error("expected an error due to invalid licenseException, got <nil>")
}

// TestCase 5: valid input
parser, _ = parserFromBodyContent(`
 <spdx:WithExceptionOperator>
  <spdx:member>
   <spdx:License rdf:about="http://spdx.org/licenses/GPL-2.0-or-later"/>
  </spdx:member>
  <spdx:licenseException>
   <spdx:LicenseException>
    <spdx:example>example</spdx:example>
    <spdx:licenseExceptionId>Libtool-exception</spdx:licenseExceptionId>
    <rdfs:comment>comment</rdfs:comment>
   </spdx:LicenseException>
  </spdx:licenseException>
 </spdx:WithExceptionOperator>
`)
node = parser.gordfParserObj.Triples[0].Subject
_, err = parser.getWithExceptionOperatorFromNode(node)
if err != nil {
 t.Errorf("error parsing a valid input: %v", err)
```

```
 }
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package v2_1

// OtherLicense is an Other License Information section of an
// SPDX Document for version 2.1 of the spec.
type OtherLicense struct {
 // 6.1: License Identifier: "LicenseRef-[idstring]"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseIdentifier string `json:"licenseId"`

 // 6.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a
 //              License Identifier assigned
 ExtractedText string `json:"extractedText"`

 // 6.3: License Name: single line of text or "NOASSERTION"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseName string `json:"name,omitempty"`

 // 6.4: License Cross Reference
 // Cardinality: conditional (optional, one or many) if license
 //              is not on SPDX License List
 LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

 // 6.5:
 License Comment
 // Cardinality: optional, one
 LicenseComment string `json:"comment,omitempty"`
}
```

1.2911 package-url-packageurl-go 0.1.1

1.2911.1 Available under license :

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1.2912 slf4j-impl 2.0.2

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* A Base64 encoder/decoder.
*
* <p>
* This class is used to encode and decode data in Base64 format as described in RFC 1521.
*
* <p>
* Project home page: www.
* source-code.biz/base64coder/java
* Author: Christian d'Heureuse, Inventec Informatik AG, Zurich, Switzerland
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* /opt/cola/permits/1783074528_1693464828.3511877/0/spring-binding-2-5-1-release-sources-3-jar/org/springframework/binding/mapping/Mapping.java
* /opt/cola/permits/1783074528_1693464828.3511877/0/spring-binding-2-5-1-release-sources-3-jar/org/springframework/binding/convert/ConversionException.java
* /opt/cola/permits/1783074528_1693464828.3511877/0/spring-binding-2-5-1-release-sources-3-jar/org/springframework/binding/convert/service/DefaultConversionService.java
* /opt/cola/permits/1783074528_1693464828.3511877/0/spring-binding-2-5-1-release-sources-3-jar/org/springframework/binding/mapping/impl/DefaultMapping.java
* /opt/cola/permits/1783074528_1693464828.3511877/0/spring-binding-2-5-1-release-sources-3-jar/org/springframework/binding/mapping/Mapper.java
* /opt/cola/permits/1783074528_1693464828.3511877/0/spring-binding-2-5-1-release-sources-3-jar/org/springframework/binding/method/MethodInvocationException.java
* /opt/cola/permits/1783074528_1693464828.3511877/0/spring-binding-2-5-1-release-sources-3-jar/org/springframework/binding/convert/converters/InvalidFormatException.java
* /opt/cola/permits/1783074528_1693464828.3511877/0/spring-binding-2-5-1-release-sources-3-jar/org/springframework/binding/expression/ParserException.java
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* /opt/cola/permits/1783074528_1693464828.3511877/0/spring-binding-2-5-1-release-sources-3-jar/org/springframework/binding/mapping/results/TypeConversionError.java
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 /opt/cola/permits/1783074528_1693464828.3511877/0/spring-binding-2-5-1-release-sources-3-jar/org/springframework/binding/message/MessageContext.java
* /opt/cola/permits/1783074528_1693464828.3511877/0/spring-binding-2-5-1-release-sources-3-jar/org/springframework/binding/expression/beanwrapper/BeanWrapperExpressionParser.java
* /opt/cola/permits/1783074528_1693464828.3511877/0/spring-binding-2-5-1-release-sources-3-

jar/org/springframework/binding/mapping/results/SourceAccessError.java
* /opt/cola/permits/1783074528_1693464828.3511877/0/spring-binding-2-5-1-release-sources-3-jar/org/springframework/binding/format/AbstractNumberFormatFactory.java
* /opt/cola/permits/1783074528_1693464828.3511877/0/spring-binding-2-5-1-release-sources-3-jar/org/springframework/binding/message/StateManageableMessageContext.java
* /opt/cola/permits/1783074528_1693464828.3511877/0/spring-binding-2-5-1-release-sources-3-jar/org/springframework/binding/expression/el/DefaultELContext.java
* /opt/cola/permits/1783074528_1693464828.3511877/0/spring-binding-2-5-1-release-sources-3-jar/org/springframework/binding/expression/el/DefaultElContextFactory.java
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* /opt/cola/permits/1783074528_1693464828.3511877/0/spring-binding-2-5-1-release-sources-3-jar/org/springframework/binding/mapping/results/RequiredError.java
* /opt/cola/permits/1783074528_1693464828.3511877/0/spring-binding-2-5-1-release-sources-3-jar/org/springframework/binding/expression/el/ELContextFactory.java
* /opt/cola/permits/1783074528_1693464828.3511877/0/spring-binding-2-5-1-release-sources-3-jar/org/springframework/binding/format/IntegerNumberFormatFactory.java
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* /opt/cola/permits/1783074528_1693464828.3511877/0/spring-binding-2-5-1-release-sources-3-jar/org/springframework/binding/message/Severity.java
* /opt/cola/permits/1783074528_1693464828.3511877/0/spring-binding-2-5-1-release-sources-3-jar/org/springframework/binding/mapping/MappingResultsCriteria.java
* /opt/cola/permits/1783074528_1693464828.3511877/0/spring-binding-2-5-1-release-sources-3-jar/org/springframework/binding/format/DefaultNumberFormatFactory.java
* /opt/cola/permits/1783074528_1693464828.3511877/0/spring-binding-2-5-1-release-sources-3-jar/org/springframework/binding/message/DefaultMessageResolver.java
* /opt/cola/permits/1783074528_1693464828.3511877/0/spring-binding-2-5-1-release-sources-3-jar/org/springframework/binding/format/CurrencyNumberFormatFactory.java
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* /opt/cola/permits/1783074528_1693464828.3511877/0/spring-binding-2-5-1-release-sources-3-jar/org/springframework/binding/method/Parameters.java
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* /opt/cola/permits/1783074528_1693464828.3511877/0/spring-binding-2-5-1-release-sources-3-jar/org/springframework/binding/convert/converters/ObjectToCollection.java
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* /opt/cola/permits/1783074528_1693464828.3511877/0/spring-binding-2-5-1-release-sources-3-jar/org/springframework/binding/mapping/impl/DefaultMapper.java
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* /opt/cola/permits/1783074528_1693464828.3511877/0/spring-binding-2-5-1-release-sources-3-jar/org/springframework/binding/convert/ConversionService.java
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/opt/cola/permits/1783074528_1693464828.3511877/0/spring-binding-2-5-1-release-sources-3-jar/org/springframework/binding/expression/Expression.java
* /opt/cola/permits/1783074528_1693464828.3511877/0/spring-binding-2-5-1-release-sources-3-jar/org/springframework/binding/method/InvalidMethodKeyException.java
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* /opt/cola/permits/1783074528_1693464828.3511877/0/spring-binding-2-5-1-release-sources-3-jar/org/springframework/binding/convert/converters/SpringConvertingConverterAdapter.java
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* /opt/cola/permits/1783074528_1693464828.3511877/0/spring-binding-2-5-1-release-sources-3-jar/org/springframework/binding/convert/converters/StringToDate.java
* /opt/cola/permits/1783074528_1693464828.3511877/0/spring-binding-2-5-1-release-sources-3-jar/org/springframework/binding/convert/package-info.java
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* /opt/cola/permits/1783074528_1693464828.3511877/0/spring-binding-2-5-1-release-sources-3-jar/org/springframework/binding/expression/support/NullParserContext.java
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* /opt/cola/permits/1783074530_1693464830.9277647/0/spring-webflow-2-5-1-release-sources-2-jar/org/springframework/webflow/mvc/view/ConvertingPropertyEditorAdapter.java

1.2918 kubernetes 25.3.0

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1.2919 github.com/ory/go-convenience 0.1.0

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package api

```
import (
 "io/ioutil"
 "strings"
 "time"
)
```

```
type License struct {
 // The unique identifier of the license
 LicenseID string `json:"license_id"`

 // The customer ID associated with the license
 CustomerID string `json:"customer_id"`

 // If set, an identifier that should be used to lock the license to a
 // particular site, cluster, etc.
 InstallationID string `json:"installation_id"`

 // The time at which the license was issued
 IssueTime time.Time `json:"issue_time"`

 // The time at which the license starts being valid
 StartTime time.Time `json:"start_time"`

 // The time after which the license expires
 ExpirationTime time.Time `json:"expiration_time"`

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 TerminationTime time.Time `json:"termination_time"`

 // The product the license is valid for
 Product string `json:"product"`

 // License Specific Flags
 Flags map[string]interface{} `json:"flags"`

 // Modules is a list
 of the licensed enterprise modules
 Modules []string `json:"modules"`

 // List of features enabled by the license
 Features []string `json:"features"`
}

type LicenseReply struct {
 Valid    bool
 License  *License
 Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
 var reply LicenseReply
 if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
  return nil, err
```

```
 } else {
  return &reply, nil
 }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
 r := op.c.newRequest("GET", "/v1/operator/license")
 r.params.Set("signed", "1")
 r.setQueryOptions(q)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return "", err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
  return "", err
 }

 data, err := ioutil.ReadAll(resp.Body)
 if err != nil {
  return "", err
 }

 return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If
 the builtin license is invalid, the current license stays active.
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
 var reply LicenseReply
 r := op.c.newRequest("DELETE", "/v1/operator/license")
 r.setWriteOptions(opts)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return nil, err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
  return nil, err
 }
 if err := decodeBody(resp, &reply); err != nil {
  return nil, err
 }
 return &reply, nil
```

```
}

// LicensePut will configure the Consul Enterprise license for the target datacenter
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
 var reply LicenseReply
 r
 := op.c.newRequest("PUT", "/v1/operator/license")
 r.setWriteOptions(opts)
 r.body = strings.NewReader(license)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return nil, err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
  return nil, err
 }

 if err := decodeBody(resp, &reply); err != nil {
  return nil, err
 }

 return &reply, nil
}
```

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package spec

import (
 "encoding/json"

 "github.com/go-openapi/swag"
)

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 LicenseProps
 VendorExtensible
}

```
// LicenseProps holds the properties of a License object
type LicenseProps struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}

// UnmarshalJSON
 hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
 if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
  return err
 }
 return json.Unmarshal(data, &l.VendorExtensible)
}

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
 b1, err := json.Marshal(l.LicenseProps)
 if err != nil {
  return nil, err
 }
 b2, err := json.Marshal(l.VendorExtensible)
 if err != nil {
  return nil, err
 }
 return swag.ConcatJSON(b1, b2), nil
}
```

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Files: internal/snapref/*

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Files: s2/cmd/internal/filepathx/*

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*/

package minio

import (
 "bytes"
 "context"
 "encoding/xml"
 "fmt"
 "net/http"
 "net/url"

 "github.com/minio/minio-go/v7/pkg/s3utils"
)

// objectLegalHold - object legal hold specified in
// https://docs.aws.amazon.com/AmazonS3/latest/API/archive-RESTObjectPUTLegalHold.html
type objectLegalHold struct {
 XMLNS   string          `xml:"xmlns,attr,omitempty"`
 XMLName
 xml.Name        `xml:"LegalHold"`
 Status  LegalHoldStatus `xml:"Status,omitempty"`
}

// PutObjectLegalHoldOptions represents options specified by user for PutObjectLegalHold call
type PutObjectLegalHoldOptions struct {
 VersionID string
 Status    *LegalHoldStatus
}

// GetObjectLegalHoldOptions represents options specified by user for GetObjectLegalHold call
type GetObjectLegalHoldOptions struct {
 VersionID string
}
```

```
// LegalHoldStatus - object legal hold status.
type LegalHoldStatus string

const (
 // LegalHoldEnabled indicates legal hold is enabled
 LegalHoldEnabled LegalHoldStatus = "ON"

 // LegalHoldDisabled indicates legal hold is disabled
 LegalHoldDisabled LegalHoldStatus = "OFF"
)

func (r LegalHoldStatus) String() string {
 return string(r)
}

// IsValid - check whether this legal hold status is valid or not.
func (r LegalHoldStatus) IsValid() bool {
 return r == LegalHoldEnabled || r == LegalHoldDisabled
}

func newObjectLegalHold(status *LegalHoldStatus)
 (*objectLegalHold, error) {
 if status == nil {
  return nil, fmt.Errorf("Status not set")
 }
 if !status.IsValid() {
  return nil, fmt.Errorf("invalid legal hold status `%v`", status)
 }
 legalHold := &objectLegalHold{
  Status: *status,
 }
 return legalHold, nil
}

// PutObjectLegalHold : sets object legal hold for a given object and versionID.
func (c *Client) PutObjectLegalHold(ctx context.Context, bucketName, objectName string, opts
PutObjectLegalHoldOptions) error {
 // Input validation.
 if err := s3utils.CheckValidBucketName(bucketName); err != nil {
  return err
 }

 if err := s3utils.CheckValidObjectName(objectName); err != nil {
  return err
 }

 // Get resources properly escaped and lined up before
 // using them in http request.
```

```
 urlValues := make(url.Values)
 urlValues.Set("legal-hold", "")

 if opts.VersionID != "" {
  urlValues.Set("versionId", opts.VersionID)
 }

 lh, err := newObjectLegalHold(opts.Status)
 if err != nil {
  return err
 }

 lhData, err := xml.Marshal(lh)
 if
 err != nil {
  return err
 }

 reqMetadata := requestMetadata{
  bucketName:       bucketName,
  objectName:       objectName,
  queryValues:      urlValues,
  contentBody:      bytes.NewReader(lhData),
  contentLength:    int64(len(lhData)),
  contentMD5Base64: sumMD5Base64(lhData),
  contentSHA256Hex: sum256Hex(lhData),
 }

 // Execute PUT Object Legal Hold.
 resp, err := c.executeMethod(ctx, http.MethodPut, reqMetadata)
 defer closeResponse(resp)
 if err != nil {
  return err
 }
 if resp != nil {
  if resp.StatusCode != http.StatusOK && resp.StatusCode != http.StatusNoContent {
   return httpRespToErrorResponse(resp, bucketName, objectName)
  }
 }
 return nil
}

// GetObjectLegalHold gets legal-hold status of given object.
func (c *Client) GetObjectLegalHold(ctx context.Context, bucketName, objectName string, opts
GetObjectLegalHoldOptions) (status *LegalHoldStatus, err error) {
 // Input validation.
 if err := s3utils.CheckValidBucketName(bucketName); err != nil {
  return
```

```
 nil, err
 }

 if err := s3utils.CheckValidObjectName(objectName); err != nil {
  return nil, err
 }
 urlValues := make(url.Values)
 urlValues.Set("legal-hold", "")

 if opts.VersionID != "" {
  urlValues.Set("versionId", opts.VersionID)
 }

 // Execute GET on bucket to list objects.
 resp, err := c.executeMethod(ctx, http.MethodGet, requestMetadata{
  bucketName:       bucketName,
  objectName:       objectName,
  queryValues:      urlValues,
  contentSHA256Hex: emptySHA256Hex,
 })
 defer closeResponse(resp)
 if err != nil {
  return nil, err
 }
 if resp != nil {
  if resp.StatusCode != http.StatusOK {
   return nil, httpRespToErrorResponse(resp, bucketName, objectName)
  }
 }
 lh := &objectLegalHold{}
 if err = xml.NewDecoder(resp.Body).Decode(lh); err != nil {
  return nil, err
 }

 return &lh.Status, nil
}
```

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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metrics from the pseudo-filesystem proc.

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Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.
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1.2922 russellhaering-goxmldsig 1.4.0

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1.2923 github.com/fzambia/eagle 0.1.0

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1.2924 github.com/cristalhq/jwt/v4 4.0.2

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1.2925 github.com/grafana/thema 0.0.0-20230712153715-375c1b45f3ed

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1.2926 github.com/cockroachdb/errors 1.9.1

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1.2936 free-type 2.13.2

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```
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#
# All lines in this file are patterns (relative to the top-level directory),
# including the comment lines; this means that e.g. `FTL.TXT' matches all
# files that have this string in the file name (including the path relative
# to the current directory, always starting with `./').
#
# Don't put empty lines into this file!
#
builds/unix/pkg.m4
#
docs/FTL.TXT
docs/GPLv2.TXT
#
include/freetype/internal/fthash.h
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
```

```
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/ftzconf.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
subprojects/dlg
#
#
 EOF
```

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1.2942 github.com/swaggo/files 1.0.1

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1.2943 github.com/swaggo/gin-swagger 1.6.0

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1.2944 kryo 4.0.3

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* /opt/cola/permits/1787084129_1693960326.565864/0/kryo-4-0-3-sources-jar/com/esotericsoftware/kryo/io/Util.java
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*
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*
* @author Roman Levenstein <romixlev@gmail.com> */

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* /opt/cola/permits/1787084129_1693960326.565864/0/kryo-4-0-3-sources-jar/com/esotericsoftware/kryo/util/UnsafeUtil.java
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* /opt/cola/permits/1787084129_1693960326.565864/0/kryo-4-0-3-sources-jar/com/esotericsoftware/kryo/serializers/GenericsResolver.java
* /opt/cola/permits/1787084129_1693960326.565864/0/kryo-4-0-3-sources-jar/com/esotericsoftware/kryo/serializers/TaggedFieldSerializerConfig.java

1.2945 fluent-fluent-logger-golang 1.9.0

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1.2946 graylog2-go-gelf 0.0.0-20191017102106-1550ee647df0

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1.2947 moby-pubsub 1.0.0

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1.2948 fernet-fernet-go 0.0.0-20211208181803-9f70042a33ee

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1.2950 winrm 0.0.0-20200615185753-c42b5136ff88

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This package parses SPDX license expression strings describing license terms, like [package.json license strings](https://docs.npmjs.com/files/package.json#license), into consistently structured ECMAScript objects. The npm command-line interface depends on this package, as do many automatic license-audit tools.

In a nutshell:

```javascript
var parse = require('spdx-expression-parse')
var assert = require('assert')

assert.deepEqual(
```

```
 // Licensed under the terms of the Two-Clause BSD License.
 parse('BSD-2-Clause'),
 {license: 'BSD-2-Clause'}
)

assert.throws(function () {
 // An invalid SPDX license expression.
 // Should be `Apache-2.0`.
 parse('Apache 2')
})

assert.deepEqual(
 // Dual licensed under LGPL 2.1 or a combination of the Three-Clause
 // BSD License and the MIT License.
 parse('(LGPL-2.1 OR BSD-3-Clause AND MIT)'),
 {
   left: {license: 'LGPL-2.1'},
   conjunction: 'or',
   right: {
     left: {license: 'BSD-3-Clause'},
     conjunction: 'and',
     right:
 {license: 'MIT'}
   }
 }
)
```

The syntax comes from the [Software Package Data eXchange (SPDX)](https://spdx.org/), a standard from the [Linux Foundation](https://www.linuxfoundation.org) for shareable data about software package license terms. SPDX aims to make sharing and auditing license data easy, especially for users of open-source software.

The bulk of the SPDX standard describes syntax and semantics of XML metadata files. This package implements two lightweight, plain-text components of that larger standard:

1. The [license list](https://spdx.org/licenses), a mapping from specific string identifiers, like `Apache-2.0`, to standard form license texts and bolt-on license exceptions. The [spdx-license-ids](https://www.npmjs.com/package/spdx-exceptions) and [spdx-exceptions](https://www.npmjs.com/package/spdx-license-ids) packages implement the license list. They are development dependencies of this package.

   Any license identifier from the license list is a valid
 license expression:

   ```javascript
   require('spdx-license-ids').forEach(function (id) {
     assert.deepEqual(parse(id), {license: id})
   })
   ```

```

So is any license identifier `WITH` a standardized license exception:

```javascript
require('spdx-license-ids').forEach(function (id) {
  require('spdx-exceptions').forEach(function (e) {
    assert.deepEqual(
      parse(id + ' WITH ' + e),
      {license: id, exception: e}
    )
  })
})
```

2. The license expression language, for describing simple and complex license terms, like `MIT` for MIT-licensed and `(GPL-2.0 OR Apache-2.0)` for dual-licensing under GPL 2.0 and Apache 2.0. This package implements the license expression language.

```javascript
assert.deepEqual(
  // Licensed under a combination of the MIT License and a combination
  // of LGPL 2.1 (or a later version) and the Three-Clause BSD License.
  parse('(MIT AND (LGPL-2.1+ AND BSD-3-Clause))'),

  {
    left: {license: 'MIT'},
    conjunction: 'and',
    right: {
      left: {license: 'LGPL-2.1', plus: true},
      conjunction: 'and',
      right: {license: 'BSD-3-Clause'}
    }
  }
)
```

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// Original can be found at:
// https://bitbucket.org/lindenlab/llsd
// Modifications by Joshua Bell inexorabletash@gmail.com
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// ES3/ES5 implementation of the Krhonos Typed Array Specification
// Ref: http://www.khronos.org/registry/typedarray/specs/latest/
// Date: 2011-02-01
//
// Variations:
// * Allows typed_array.get/set() as alias for subscripts (typed_array[])
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wcwidth.js: JavaScript Portng of Markus Kuhn's wcwidth() Implementation
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Use as a JavaScript Library

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Installation

Package managers

[npm](https://www.npmjs.com/)

```sh
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```

#####
 [bower](http://bower.io/)

```sh
bower install spdx-license-ids
```

[Duo](http://duojs.org/)

```javascript
const spdxLicenseIds = require('shinnn/spdx-license-ids');
```

Standalone

[Download the script file directly.](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/spdx-license-ids-browser.js)

API

spdxLicenseIds

Type: `Array` of `String`

It returns an array of SPDX license identifiers.

```javascript
const spdxLicenseIds = require('spdx-license-ids'); //=> ['Glide', 'Abstyles', 'AFL-1.1', ... ]
```

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var assert = require('assert');

assert.equal(correct('mit'), 'MIT')

assert.equal(correct('Apache 2'), 'Apache-2.0')

assert(correct('No idea what license') === null)
```
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1.2953 google.golang.org/genproto/googleapis/rpc 0.0.0-20230525234030-28d5490b6b19

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1.2954 github.com/cilium/ebpf 0.9.1

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Manifest-Version: 1.0
Bnd-LastModified: 1678198115874
Build-Jdk: 11.0.18
Built-By: uriel
Bundle-Description: Java reflect give poor performance on getter sette
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ls.
Bundle-DocURL: https://urielch.github.io/
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: accessors-smart
Bundle-SymbolicName: net.minidev.accessors-smart
Bundle-Vendor: Chemouni Uriel
Bundle-Version: 2.4.9
Created-By: Apache Maven Bundle Plugin
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x;version="[2.4,3)"
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Tool: Bnd-5.1.1.202006162103

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1.2961 springdoc-openapi-starter-webmvc-ui 2.1.0

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1.2964 swagger-annotations 2.2.9

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1.2965 cjson 1.7.14

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1.2966 @babel/plugin-syntax-class-properties 7.12.13

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1.2968 @humanwhocodes/module-importer 1.0.1

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1.2969 @humanwhocodes/object-schema 1.2.1

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1.2970 @babel/plugin-syntax-optional-catch-binding 7.8.3

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1.2971 @babel/plugin-syntax-numeric-separator 7.10.4

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1.2973 @babel/plugin-syntax-logical-assignment-operators 7.10.4

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1.2976 @babel/plugin-syntax-object-rest-spread 7.8.3

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1.2977 @babel/plugin-proposal-unicode-property-regex 7.18.6

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1.2978 @babel/plugin-proposal-private-methods 7.18.6

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1.2979 @babel/plugin-proposal-class-properties 7.18.6

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1.2980 @babel/plugin-proposal-numeric-separator 7.18.6

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1.2981 @csstools/postcss-nested-calc 1.0.0

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1.2982 @jest/globals 27.5.1

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1.2983 @leichtgewicht/ip-codec 2.0.4

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fields:
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1.2998 hsql-db 2.7.2

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```
  \q    to Quit.
  \?    lists Special Commands.
  :?    lists Edit-Buffer/History commands.
  *?    lists PL commands.
  /?    displays help on how to set and use macros (incl. functions).
```

SPECIAL Commands begin with '\' and execute when you hit ENTER.
EDIT-BUFFER / HISTORY Commands begin with ':' and execute when you hit ENTER.
PROCEDURAL LANGUAGE commands begin with '*' and end when you hit ENTER.
MACRO executions and definitions begin with '/' and end when you hit ENTER.
All other lines comprise SQL Statements (or comments).
SQL Statements are terminated by either unquoted ';' (which executes the
statement), or a blank line (which moves the statement into the edit buffer
without executing).
After turning on variable expansion with command "*" (or
any other PL
command), PL variables may be used in most commands like so: *{PLVARNAME}.
Be aware when using regular expressions on commands, that the regex.s
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* /opt/cola/permits/1803777816_1695236476.9756258/0/hsqldb-2-7-2-sources-2-jar/org/hsqldb/cmdline/sqltool/SqlFile.banner.text
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*/
/**
   * provides cross-package access to the proprietary (i.e. non-JDBC)
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   *
   * @return the underlying sessionProxy for this connection
   */

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* /opt/cola/permits/1803777816_1695236476.9756258/0/hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCConnection.java
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* /opt/cola/permits/1803777816_1695236476.9756258/0/hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/preprocessor/Option.java
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* /opt/cola/permits/1803777816_1695236476.9756258/0/hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/preprocessor/Parser.java
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 /opt/cola/permits/1803777816_1695236476.9756258/0/hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/preprocessor/IResolver.java
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/opt/cola/permits/1803777816_1695236476.9756258/0/hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/Close.png: binary file matches
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*/
/**
* Comprehensive information about the database as a whole.
* <P>
* This interface is implemented by driver vendors to let users know the capabilities
* of a Database Management System (DBMS) in combination with
* the driver based on JDBC technology
* ("JDBC driver") that is used with it.  Different relational DBMSs often
 support
* different features, implement features in different ways, and use different
* data types.  In addition, a driver may implement a feature on top of what the
* DBMS offers.  Information returned by methods in this interface applies
* to the capabilities of a particular driver and a particular DBMS working
* together. Note that as used in this documentation, the term "database" is
* used generically to refer to both the driver and DBMS.
* <P>
* A user for this interface is commonly a tool that needs to discover how to
* deal with the underlying DBMS.  This is especially true for applications
* that are intended to be used with more than one DBMS. For example, a tool might use the method
* <code>getTypeInfo</code> to find out what data types can be used in a
* <code>CREATE TABLE</code> statement.  Or a user might call the method
```

```
* <code>supportsCorrelatedSubqueries</code> to see if it is possible to use
* a correlated subquery or <code>supportsBatchUpdates</code> to
 see if it is
* possible to use batch updates.
* <P>
* Some <code>DatabaseMetaData</code> methods return lists of information
* in the form of <code>ResultSet</code> objects.
* Regular <code>ResultSet</code> methods, such as
* <code>getString</code> and <code>getInt</code>, can be used
* to retrieve the data from these <code>ResultSet</code> objects.  If
* a given form of metadata is not available, an empty <code>ResultSet</code>
* will be returned. Additional columns beyond the columns defined to be
* returned by the <code>ResultSet</code> object for a given method
* can be defined by the JDBC driver vendor and must be accessed
* by their <B>column label</B>.
* <P>
* Some <code>DatabaseMetaData</code> methods take arguments that are
* String patterns.  These arguments all have names such as fooPattern.
* Within a pattern String, "%" means match any substring of 0 or more
* characters, and "_" means match any one character. Only metadata
* entries matching the search
 pattern are returned. If a search pattern
* argument is set to <code>null</code>, that argument's criterion will
* be dropped from the search.
* <P>
* A method that gets information about a feature that the driver does not
* support will throw an <code>SQLException</code>.
* In the case of methods that return a <code>ResultSet</code>
* object, either a <code>ResultSet</code> object (which may be empty) is
* returned or an <code>SQLException</code> is thrown.
*
* <!-- start release-specific documentation -->
* <div class="ReleaseSpecificDocumentation">
* <h1>HSQLDB-Specific Information:</h1>
*
* <h2>Metadata Table Production</h2>
*
* Starting with HSQLDB 1.7.2, the metadata table (a.k.a system table) production
* implementation provided in the default build filters metadata based on each
* SQL session user's access rights which in turn lifts the pre-HSQLDB 1.7.2
* restriction that only users with the DBA role
* ('admin' users in older HSQLDB parlance) could expect trouble-free
 access to
* all metadata.<p>
*
* Also starting with HSQLDB 1.7.2, the metadata table production implementation
* classes are loaded dynamically, using a precedence policy to find and load
* the richest producer available at runtime.  In the event that no better
```

```
* alternative is found, the default minimal (completely restricted) provider
* is selected.  Under this scheme, it is possible for third party packagers to
* create custom distributions targeted at supporting full (design-time),
* custom-written (proprietary / micro environment), minimal (production-time)
* or completely-restricted (space-constrained | device embedded | real-time |
* hostile environment) metadata table production scenarios. To learn more
* about this option, interested parties can review the documentation and source
* code for the <code>org.hsqldb.dbinfo.DatabaseInformation class</code>.<p>
*
* Please also note that in addition to the metadata tables produced to
* directly support this
 class, starting with HSQLDB 1.7.2, the default build
* provides many additional tables covering all or most HSQLDB features, such
* as descriptions of the triggers and aliases defined in the database. <p>
*
* For instance, in the default build, a fairly comprehensive description of
* each INFORMATION_SCHEMA table and each INFORMATION_SCHEMA table
* column is included in the REMARKS column of the {@link #getTables(
* java.lang.String, java.lang.String, java.lang.String, java.lang.String[])
* getTables(...)} and {@link #getColumns(java.lang.String, java.lang.String,
* java.lang.String, java.lang.String) getColumns(...)} results, which derive
* from INFORMATION_SCHEMA.SYSTEM_TABLES and INFORMATION_SCHEMA.SYSTEM_COLUMNS,
* respectively.<p>
*
* Since HSQLDB 2.0 the INFORMATION_SCHEMA views have been vastly expanded
* in compliance with the SQL:2011 Standard and report the properties of all
* database objects.</p>
*
* <h2>Schema Metadata</h2>
*
* The SQL SCHEMA concept became
 fully supported in the HSQLDB 1.8.x series and
* this fact is reflected in the all subsequent versions of this class.
*
* <h2>Catalog Metadata</h2>
*
* Starting with HSQLDB 2.0, SQL standards compliance up to SQL:2008 and beyond
* is a major theme which is reflected in the provision of the majority of the
* standard-defined full-name INFORMATION_SCHEMA views. <p>
*
* However, just as CATALOG semantics and handling are still considered to be
* implementation defined by the most recent SQL standard (SQL:2011), so is the
* HSQLDB CATALOG concept still in the process of being defined and refined in
* HSQLDB 2.x. and beyond.<p>
*
* Similarly, starting with HSQLDB 2.x, from the perspective
* of SQL identification, an HSQLDB JDBC URL connects to a single HSQLDB
* database instance which consists of a single, default CATALOG
```

```
* named PUBLIC in which each SCHEMA instance of the database resides. The name of
* this catalog can be changed with the ALTER CATALOG &lt;name&gt;
 RENAME TO statement.
* As of version 2.1.0, HSQLDB supports qualification by the containing CATALOG of
* database objects at the syntactic level, but does not yet support operations
* such as opening, manipulating or querying against multiple database
* catalogs within a single session, not even in a one-at-a-time fashion.
*
* <h2>Index Metadata</h2>
*
* It must still be noted that as of the most recent release, HSQLDB continues
* to ignore the <code>approximate</code> argument of {@link #getIndexInfo
* getIndexInfo()} as no data is returned for CARDINALITY and PAGES coloumns.
*
* <h2>Notes for developers extending metadata table production</h2>
*
* Note that in the absence of an ORDER BY clause, queries against the metadata
* tables that directly support this class are expected to return rows in JDBC
* contract order.  The reason for this is that results typically come
* back much faster when no &quot;ORDER BY&quot; clause is used. <p>
*
* As such, when adding, extending
 or replacing a JDBC database metadata table
* production routine, developers need to be aware of this fact and either add the
* contract &quot;ORDER BY&quot; clause to the driving SQL or, when possible,
* preferably maintain rows in the contract order by correctly coding the
* primary index definition in the table producer class.
*
* <hr>
*
* (fredt@users)<br>
* (campbell-burnet@users)
* </div>
* <!-- end release-specific documentation -->
*
* @author Campbell Burnet (campbell-burnet@users dot sourceforge.net)
* @author Fred Toussi (fredt@users dot sourceforge.net)
* @version 2.7.2
* @since HSQLDB 1.9.0
* @see org.hsqldb.dbinfo.DatabaseInformation
*/
```

Found in path(s):
* /opt/cola/permits/1803777816_1695236476.9756258/0/hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCDatabaseMetaData.java
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/* These are commands which may contain nested commands and/or which
   * require the closing semicolon to send to the DB engine.
   * The BEGIN and DECLARE needed for PL/SQL probably do not need to
   * terminate the line, as we have it specified here, but I'd rather not be
   * too liberal with proprietary SQL like this,
 because it's easy to
   * envision other proprietary or non-proprietary commands beginning with
   * DECLARE or BEGIN. */

Found in path(s):
* /opt/cola/permits/1803777816_1695236476.9756258/0/hsqldb-2-7-2-sources-2-jar/org/hsqldb/cmdline/sqltool/SqlFileScanner.java
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* /opt/cola/permits/1803777816_1695236476.9756258/0/hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCClob.java
* /opt/cola/permits/1803777816_1695236476.9756258/0/hsqldb-2-7-2-sources-2-jar/org/hsqldb/TransactionManagerMV2PL.java
*
 /opt/cola/permits/1803777816_1695236476.9756258/0/hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/DateTimeType.java
* /opt/cola/permits/1803777816_1695236476.9756258/0/hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/ScriptRunner.java
* /opt/cola/permits/1803777816_1695236476.9756258/0/hsqldb-2-7-2-sources-2-jar/org/hsqldb/RangeVariable.java
* /opt/cola/permits/1803777816_1695236476.9756258/0/hsqldb-2-7-2-sources-2-jar/org/hsqldb/Scanner.java
* /opt/cola/permits/1803777816_1695236476.9756258/0/hsqldb-2-7-2-sources-2-jar/org/hsqldb/TransactionManagerCommon.java
* /opt/cola/permits/1803777816_1695236476.9756258/0/hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCPreparedStatement.java
* /opt/cola/permits/1803777816_1695236476.9756258/0/hsqldb-2-7-2-sources-2-jar/org/hsqldb/StatementSession.java
* /opt/cola/permits/1803777816_1695236476.9756258/0/hsqldb-2-7-2-sources-2-jar/org/hsqldb/TransactionManager2PL.java
* /opt/cola/permits/1803777816_1695236476.9756258/0/hsqldb-2-7-2-sources-2-jar/org/hsqldb/StatementCommand.java
*
 /opt/cola/permits/1803777816_1695236476.9756258/0/hsqldb-2-7-2-sources-2-jar/org/hsqldb/ExpressionOp.java
* /opt/cola/permits/1803777816_1695236476.9756258/0/hsqldb-2-7-2-sources-2-jar/org/hsqldb/Session.java
* /opt/cola/permits/1803777816_1695236476.9756258/0/hsqldb-2-7-2-sources-2-jar/org/hsqldb/dbinfo/DITableInfo.java
* /opt/cola/permits/1803777816_1695236476.9756258/0/hsqldb-2-7-2-sources-2-jar/org/hsqldb/SessionContext.java
* /opt/cola/permits/1803777816_1695236476.9756258/0/hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/TextCache.java

* /opt/cola/permits/1803777816_1695236476.9756258/0/hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/Type.java
* /opt/cola/permits/1803777816_1695236476.9756258/0/hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/CharacterType.java
* /opt/cola/permits/1803777816_1695236476.9756258/0/hsqldb-2-7-2-sources-2-jar/org/hsqldb/FunctionSQL.java
* /opt/cola/permits/1803777816_1695236476.9756258/0/hsqldb-2-7-2-sources-2-jar/org/hsqldb/TransactionManagerMVCC.java
* /opt/cola/permits/1803777816_1695236476.9756258/0/hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCCallableStatement.java
* /opt/cola/permits/1803777816_1695236476.9756258/0/hsqldb-2-7-2-sources-2-jar/org/hsqldb/server/Server.java
* /opt/cola/permits/1803777816_1695236476.9756258/0/hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/HsqlDatabaseProperties.java
* /opt/cola/permits/1803777816_1695236476.9756258/0/hsqldb-2-7-2-sources-2-jar/org/hsqldb/rights/Right.java
* /opt/cola/permits/1803777816_1695236476.9756258/0/hsqldb-2-7-2-sources-2-jar/org/hsqldb/ParserCommand.java
* /opt/cola/permits/1803777816_1695236476.9756258/0/hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCResultSet.java
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* /opt/cola/permits/1803777816_1695236476.9756258/0/hsqldb-2-7-2-sources-2-jar/org/hsqldb/error/Error.java
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 /opt/cola/permits/1803777816_1695236476.9756258/0/hsqldb-2-7-2-sources-2-jar/org/hsqldb/navigator/RowSetNavigatorDataTable.java
* /opt/cola/permits/1803777816_1695236476.9756258/0/hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/HsqlTimer.java
* /opt/cola/permits/1803777816_1695236476.9756258/0/hsqldb-2-7-2-sources-2-jar/org/hsqldb/DatabaseURL.java
* /opt/cola/permits/1803777816_1695236476.9756258/0/hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/RAFileHybrid.java
* /opt/cola/permits/1803777816_1695236476.9756258/0/hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/CommonSwing.java
* /opt/cola/permits/1803777816_1695236476.9756258/0/hsqldb-2-7-2-sources-2-jar/org/hsqldb/Database.java
* /opt/cola/permits/1803777816_1695236476.9756258/0/hsqldb-2-7-2-sources-2-jar/org/hsqldb/server/WebServerConnection.java
* /opt/cola/permits/1803777816_1695236476.9756258/0/hsqldb-2-7-2-sources-2-jar/org/hsqldb/dbinfo/DatabaseInformationFull.java
* /opt/cola/permits/1803777816_1695236476.9756258/0/hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/OracleTransferHelper.java
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* /opt/cola/permits/1803777816_1695236476.9756258/0/hsqldb-2-7-2-sources-2-jar/org/hsqldb/persist/Log.java
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* /opt/cola/permits/1803777816_1695236476.9756258/0/hsqldb-2-7-2-sources-2-jar/org/hsqldb/cmdline/SqlTool.java
* /opt/cola/permits/1803777816_1695236476.9756258/0/hsqldb-2-7-2-sources-2-jar/org/hsqldb/types/BinaryType.java
* /opt/cola/permits/1803777816_1695236476.9756258/0/hsqldb-2-7-2-sources-2-jar/org/hsqldb/SortAndSlice.java
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* /opt/cola/permits/1803777816_1695236476.9756258/0/hsqldb-2-7-2-sources-2-jar/org/hsqldb/jdbc/JDBCResultSetMetaData.java
* /opt/cola/permits/1803777816_1695236476.9756258/0/hsqldb-2-7-2-sources-2-jar/org/hsqldb/lib/tar/TarReaderMain.java
* /opt/cola/permits/1803777816_1695236476.9756258/0/hsqldb-2-7-2-sources-2-jar/org/hsqldb/util/DataAccessPoint.java
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* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/html/ParametricNullness.java
*

/opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/graph/ParametricNullness.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/ParametricNullness.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/hash/ParametricNullness.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/xml/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/primitives/ParametricNullness.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/base/ParametricNullness.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/net/ElementTypesAreNonnullByDefault.java
*
/opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/math/ParametricNullness.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/primitives/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/reflect/ParametricNullness.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/cache/ParametricNullness.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/hash/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/escape/ParametricNullness.java
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*/
/**
* Holder for web specializations of methods of {@code Shorts}. Intended to be empty for regular
* version.
*/
```

Found in path(s):
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/primitives/ShortsMethodsForWeb.java
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* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/base/Supplier.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/base/Defaults.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/io/CountingInputStream.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/base/FinalizableWeakReference.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/base/Predicate.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/base/Predicates.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/base/Suppliers.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/util/concurrent/DirectExecutor.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/base/AbstractIterator.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/io/Files.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/io/LineReader.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/io/package-info.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-

jar/com/google/common/base/Throwables.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/base/FinalizableReference.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/base/Charsets.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/eventbus/package-info.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/Interners.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/base/FinalizableReferenceQueue.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/io/LineBuffer.java
*
/opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/util/concurrent/AbstractFuture.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/io/Flushables.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/io/MultiInputStream.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/eventbus/DeadEvent.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/util/concurrent/package-info.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/io/CharStreams.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/base/package-info.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/io/Resources.java
*
/opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/eventbus/AsyncEventBus.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/primitives/Primitives.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/eventbus/Subscribe.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/base/Preconditions.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/util/concurrent/ExecutionList.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/eventbus/EventBus.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/io/LittleEndianDataInputStream.java
*
/opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/io/CountingOutputStream.java

* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/base/FinalizableSoftReference.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/HashBiMap.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/base/Function.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/eventbus/AllowConcurrentEvents.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/base/Objects.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/io/ByteStreams.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/io/LittleEndianDataOutputStream.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/util/concurrent/ListenableFuture.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/io/Closeables.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/base/FinalizablePhantomReference.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/io/TempFileCreator.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/EnumMultiset.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/base/Functions.java

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/*
  * This following method is a modified version of one found in
  * http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30
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* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/eventbus/SubscriberRegistry.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/util/concurrent/ListenerCallQueue.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/math/Quantiles.java
*
 /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/eventbus/Subscriber.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/eventbus/Dispatcher.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/base/MoreObjects.java
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* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/util/concurrent/AggregateFuture.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/util/concurrent/ImmediateFuture.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/util/concurrent/FuturesGetChecked.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/util/concurrent/AbstractTransformFuture.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/base/CaseFormat.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/util/concurrent/FakeTimeLimiter.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/escape/CharEscaperBuilder.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/util/concurrent/AbstractCatchingFuture.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/escape/CharEscaper.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/util/concurrent/Futures.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/util/concurrent/FluentFuture.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/io/PatternFilenameFilter.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/util/concurrent/CollectionFuture.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-

jar/com/google/common/util/concurrent/TimeoutFuture.java
*
/opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-
jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-
jar/com/google/common/io/AppendableWriter.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-
jar/com/google/common/util/concurrent/TimeLimiter.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-
jar/com/google/common/annotations/VisibleForTesting.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-
jar/com/google/common/reflect/TypeToken.java
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* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-
jar/com/google/common/collect/RegularImmutableSortedMultiset.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-
jar/com/google/common/collect/ForwardingSortedMultiset.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-
jar/com/google/common/collect/ImmutableSortedMultiset.java
*
/opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-
jar/com/google/common/collect/AbstractRangeSet.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-
jar/com/google/common/collect/GeneralRange.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-
jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-
jar/com/google/common/collect/RangeSet.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-
jar/com/google/common/collect/SortedIterable.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-

jar/com/google/common/collect/Count.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/SortedIterables.java
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*/
/**
* Holder for web specializations of methods of {@code Ints}. Intended to be empty for regular
* version.
*/
```

Found in path(s):
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* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-

jar/com/google/common/base/VerifyException.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java
*
 /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/reflect/TypeVisitor.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/base/Utf8.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/FilteredMultimapValues.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/base/Verify.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/io/CharSequenceReader.java
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* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/hash/HashingInputStream.java
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* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/util/concurrent/UncaughtExceptionHandlers.java
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/**
* Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular
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*/
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* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/graph/MapRetrievalCache.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/graph/StandardMutableNetwork.java

* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/graph/ValueGraph.java
*
 /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/ImmutableMultisetGwtSerializationDependencies.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/graph/StandardValueGraph.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/graph/MultiEdgesConnecting.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/graph/ElementOrder.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/graph/NetworkBuilder.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/graph/DirectedGraphConnections.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/graph/ImmutableValueGraph.java
*
 /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/graph/ValueGraphBuilder.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/HashMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/graph/AbstractUndirectedNetworkConnections.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/LinkedHashMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/graph/DirectedNetworkConnections.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/ArrayListMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/graph/AbstractValueGraph.java
*
 /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/graph/GraphConstants.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/graph/StandardNetwork.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/graph/UndirectedMultiNetworkConnections.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/graph/AbstractNetwork.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/Comparators.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/graph/AbstractGraph.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/graph/UndirectedGraphConnections.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-

jar/com/google/common/graph/MapIteratorCache.java
*
 /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/graph/AbstractDirectedNetworkConnections.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/graph/UndirectedNetworkConnections.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/graph/NetworkConnections.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/graph/EndpointPair.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/graph/StandardMutableGraph.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/graph/GraphBuilder.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/graph/ForwardingGraph.java
*
 /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/graph/AbstractGraphBuilder.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/RangeGwtSerializationDependencies.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/graph/StandardMutableValueGraph.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/graph/MutableValueGraph.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/graph/EdgesConnecting.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/graph/DirectedMultiNetworkConnections.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/graph/EndpointPairIterator.java
*
 /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/graph/GraphConnections.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/graph/ForwardingValueGraph.java
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* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/HashBasedTable.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/ImmutableSortedSet.java
*
 /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/TreeBasedTable.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/UnmodifiableIterator.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/ImmutableMapEntrySet.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/StandardTable.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/Tables.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/ImmutableMultimap.java
*
 /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/ImmutableMapValues.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/CollectPreconditions.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/Table.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/ImmutableMapKeySet.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/RegularImmutableMap.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/Serialization.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/Range.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/Collections2.java
*

/opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/ImmutableCollection.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/ImmutableListMultimap.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/StandardRowSortedTable.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/Platform.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/ImmutableMap.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/ImmutableMultiset.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/PeekingIterator.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/RegularImmutableBiMap.java
*
/opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/ImmutableEntry.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/EmptyImmutableListMultimap.java
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*/
/**
* Holder for web specializations of methods of {@code Floats}. Intended to be empty for regular
* version.
*/

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* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/primitives/FloatsMethodsForWeb.java
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* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/hash/ImmutableSupplier.java
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* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/escape/UnicodeEscaper.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/escape/Escaper.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/io/FileBackedOutputStream.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/base/Converter.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/primitives/Doubles.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/util/concurrent/SequentialExecutor.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/base/Stopwatch.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/util/concurrent/ListenableFutureTask.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/net/PercentEscaper.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/primitives/Bytes.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/primitives/Longs.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/io/MultiReader.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/primitives/Floats.java
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* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/thirdparty/publicsuffix/TrieParser.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/primitives/Booleans.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/base/Joiner.java

* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/base/CharMatcher.java
*
 /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/primitives/Chars.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/FluentIterable.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/net/InetAddresses.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/primitives/Ints.java
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*/

```
/*
  * This method was rewritten in Java from an intermediate step of the Murmur hash function in
  * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
  * following header:
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  */
```

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*/
/**
  * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}
  * key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy
  * version.
  *
  * @throws UnsupportedOperationException always
  * @deprecated <b>Pass a key of type {@code Comparable}
 to use {@link
  *     ImmutableSortedMap#of(Comparable, Object)}.</b>
  */
```

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* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java
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*/
/*
  * This method was rewritten in Java from an intermediate step of the Murmur hash function in
  * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
  * following header:
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  */

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* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-
jar/com/google/common/collect/MinMaxPriorityQueue.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-
jar/com/google/common/collect/RowSortedTable.java

* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/ForwardingSortedSetMultimap.java
*
 /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/AbstractSequentialIterator.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/ForwardingImmutableCollection.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/SortedMapDifference.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/UnmodifiableListIterator.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/ForwardingSetMultimap.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/ForwardingListMultimap.java
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*/
/**
  * Returns an array containing all of the elements in the specified collection. This method
  * returns the elements in the order they are returned by the collection's iterator. The returned
  * array is "safe" in that no references to it are maintained by the collection. The caller is
  * thus free to modify the returned
 array.
  *
  * <p>This method assumes that the collection size doesn't change while the method is running.
  *
  * <p>TODO(kevinb): support concurrently modified collections?
  *
  * @param c the collection for which to return an array of elements
  */
```

Found in path(s):
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-

jar/com/google/common/collect/ObjectArrays.java
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* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/reflect/IgnoreJRERequirement.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/io/IgnoreJRERequirement.java
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* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/base/Java8Compatibility.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/io/Java8Compatibility.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/util/concurrent/OverflowAvoidingLockSupport.java
*

/opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/math/BigDecimalMath.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/hash/Java8Compatibility.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/math/ToDoubleRounder.java
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* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/hash/LittleEndianByteArray.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/hash/MacHashFunction.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/util/concurrent/AsyncCallable.java
*
/opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/ConsumingQueueIterator.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/util/concurrent/CombinedFuture.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/util/concurrent/InterruptibleTask.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/util/concurrent/AggregateFutureState.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/io/ReaderInputStream.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/hash/FarmHashFingerprint64.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/util/concurrent/Platform.java
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* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/graph/AbstractBaseGraph.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/graph/BaseGraph.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/ObjectCountHashMap.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/graph/Traverser.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/ObjectCountLinkedHashMap.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/util/concurrent/ClosingFuture.java
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jar/com/google/common/util/concurrent/ForwardingCondition.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/util/concurrent/ForwardingLock.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/primitives/ImmutableLongArray.java
*
/opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/primitives/ImmutableDoubleArray.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/primitives/ImmutableIntArray.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/hash/AbstractHashFunction.java
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  *
  * As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
  * java.util.HashMap
 class.
  */
```

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* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/math/PairedStats.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/util/concurrent/RateLimiter.java
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 /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/hash/LongAddable.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/reflect/Parameter.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/io/CharSource.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/io/FileWriteMode.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-

jar/com/google/common/reflect/MutableTypeToInstanceMap.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/reflect/package-info.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/io/BaseEncoding.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/io/Closer.java
*
/opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/hash/LongAddables.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/io/ByteSink.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/reflect/TypeToInstanceMap.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/cache/LongAddable.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/CartesianList.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/util/concurrent/SmoothRateLimiter.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/escape/package-info.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/math/StatsAccumulator.java
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/opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/reflect/Invokable.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/hash/ChecksumHashFunction.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/xml/package-info.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/math/Stats.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/ImmutableRangeMap.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/ImmutableRangeSet.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/FilteredKeyMultimap.java
*
/opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/reflect/ClassPath.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/reflect/TypeCapture.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/hash/SipHashFunction.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/io/CharSink.java

* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/math/LinearTransformation.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/reflect/AbstractInvocationHandler.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/hash/AbstractByteHasher.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/html/package-info.java
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 /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/util/concurrent/ServiceManager.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/io/ByteSource.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/base/StandardSystemProperty.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/math/PairedStatsAccumulator.java
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* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/graph/Graph.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/graph/Network.java
*

/opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/graph/ImmutableGraph.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/graph/Graphs.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/graph/MutableGraph.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/graph/MutableNetwork.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/TopKSelector.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/graph/ImmutableNetwork.java
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Found in path(s):
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/Maps.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/Multimap.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/ExplicitOrdering.java
*
/opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/ForwardingIterator.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/package-info.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/ForwardingMultiset.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/ComparatorOrdering.java

* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/HashMultimap.java
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* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/Iterators.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/LinkedHashMultiset.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/SortedSetMultimap.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/Lists.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/EnumHashBiMap.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/ArrayListMultimap.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/ForwardingSet.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/Synchronized.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/Multisets.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/ForwardingMultimap.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/ForwardingList.java
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* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/AbstractMapBasedMultimap.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/NullsLastOrdering.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/AbstractIterator.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/TreeMultimap.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/SingletonImmutableSet.java
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jar/com/google/common/collect/Multimaps.java
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* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/AbstractMultiset.java
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* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/AbstractMapEntry.java
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* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/MutableClassToInstanceMap.java
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* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/ForwardingSortedSet.java
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* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/ByFunctionOrdering.java

* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/NullsFirstOrdering.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/ClassToInstanceMap.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/ForwardingListIterator.java
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* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/ImmutableList.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/AbstractSortedSetMultimap.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/Multiset.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/TreeMultiset.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/AbstractBiMap.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/ForwardingQueue.java
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 /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/CompoundOrdering.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/EnumBiMap.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/ReverseNaturalOrdering.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/ForwardingConcurrentMap.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/NaturalOrdering.java
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* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/cache/Striped64.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/cache/LongAdder.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/hash/Striped64.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/hash/LongAdder.java
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* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/graph/IncidentEdgeSet.java
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* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/annotations/GwtCompatible.java
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* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/MapMakerInternalMap.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/util/concurrent/SettableFuture.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/Cut.java
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* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/collect/RegularImmutableTable.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/io/LineProcessor.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/util/concurrent/AbstractIdleService.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/escape/ArrayBasedEscaperMap.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/util/concurrent/AbstractExecutionThreadService.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/net/UrlEscapers.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/io/ByteArrayDataInput.java

* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/util/concurrent/ForwardingFluentFuture.java
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* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/base/Splitter.java
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* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/escape/ArrayBasedUnicodeEscaper.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/annotations/GwtIncompatible.java
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* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/io/ByteProcessor.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/util/concurrent/ForwardingFuture.java
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* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/html/HtmlEscapers.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/io/ByteArrayDataOutput.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/net/InternetDomainName.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/cache/LocalCache.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/util/concurrent/JdkFutureAdapters.java
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/net/HostSpecifier.java
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* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/escape/Escapers.java
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*/
/**
* Outer class that exists solely to let us write {@code Partially.GwtIncompatible} instead of plain
* {@code GwtIncompatible}. This is more accurate for {@link Futures#catching}, which is available
* under GWT but with a slightly different signature.
*
* <p>We can't use {@code PartiallyGwtIncompatible} because then the GWT compiler
 wouldn't recognize
* it as a {@code GwtIncompatible} annotation. And for {@code Futures.catching}, we need the GWT
* compiler to autostrip the normal server method in order to expose the special, inherited GWT
* version.
*/
```

Found in path(s):
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/util/concurrent/Partially.java
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*/
/**
* Holder for web specializations of methods of {@code Doubles}. Intended to be empty for regular
* version.
*/

Found in path(s):
* /opt/cola/permits/1803963326_1695256077.680071/0/guava-32-0-0-android-sources-jar/com/google/common/primitives/DoublesMethodsForWeb.java

1.3000 zap 1.26.0

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```
package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
```

```
type License struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}
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package spec

import "testing"

func TestIntegrationLicense(t *testing.T) {
 license := License{Name: "the name", URL: "the url"}
 const licenseJSON = `{"name":"the name","url":"the url"}`
 const licenseYAML = "name: the name\nurl: the url\n"

 assertSerializeJSON(t, license, licenseJSON)
 assertParsesJSON(t, licenseJSON, license)
}
```

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1.3002 go-toml 2.1.0

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1.3003 google-uuid 1.3.1

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1.3007 bufbuild-connect-go 1.10.0

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1.3011 github.com/influxdata/influxdb-client-go/v2 2.12.3

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1.3012 go-proxy 0.0.0-20230731152917-f99041a5c027

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* /opt/cola/permits/1809799750_1695943102.6517565/0/woodstox-core-asl-4-4-1-sources-zip/com/ctc/wstx/msv/W3CSchema.java
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* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/schema/impl/XSBooleanImpl.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/config/provider/MapBasedConfiguration.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/schema/impl/XSDateTimeMarshaller.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/AbstractXMLObjectBuilder.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/schema/impl/XSBase64BinaryImpl.java
*
/opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/schema/impl/XSDateTimeBuilder.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/schema/XSBoolean.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/io/MarshallingException.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/util/IDIndex.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/AbstractExtensibleXMLObjectMarshaller.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/config/Initializer.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/config/provider/AbstractFilesystemConfigurationPropertiesSource.java
*
/opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/schema/impl/XSAnyImpl.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/persist/AbstractConditionalLoadXMLObjectLoadSaveManager.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/metrics/FilteredMetricRegistry.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/metrics/MetricsSupport.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/persist/ConditionalLoadXMLObjectLoadSaveManager.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/Version.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/config/provider/SystemPropertyFilesystemConfigurationPropertiesSource.java

*
/opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/io/MarshallerFactory.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/util/SingletonFactory.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/schema/impl/XSQNameUnmarshaller.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/schema/XSBooleanValue.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/config/provider/SystemPropertyConfigurationPropertiesSource.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/schema/XSString.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/config/package-info.java
*
/opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/schema/impl/XSBase64BinaryBuilder.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/XMLObjectBuilderFactory.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/config/provider/ThreadLocalConfigurationPropertiesSource.java
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* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/schema/impl/XSDateTimeImpl.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/schema/impl/XSIntegerMarshaller.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/util/XMLObjectSource.java
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/opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/metrics/impl/MetricRegistryInitializer.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/persist/impl/PassthroughSourceStrategy.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/schema/impl/XSAnyBuilder.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/schema/impl/XSStringBuilder.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/schema/impl/XSStringUnmarshaller.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/config/provider/package-info.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/persist/XMLObjectLoadSaveManager.java
*
/opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/XMLObject.java

* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/util/AttributeMap.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/ElementExtensibleXMLObject.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/config/XMLObjectProviderInitializer.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/config/provider/ThreadLocalConfigurationPropertiesHolder.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/util/XMLObjectSupport.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/package-info.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/AbstractXMLObject.java
*
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* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/config/XMLConfigurationException.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/schema/impl/XSDateTimeUnmarshaller.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/criterion/package-info.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/schema/impl/XSURIBuilder.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/schema/impl/XSBooleanMarshaller.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/util/XMLObjectChildrenList.java
*
/opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/persist/MapLoadSaveManager.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/metrics/package-info.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/metrics/LoggerDrivenMetricFilter.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/Namespace.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/config/AbstractXMLObjectProviderInitializer.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/metrics/impl/DisabledCounter.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/util/AbstractSingletonFactory.java
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jar/org/opensaml/core/xml/persist/package-info.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/util/package-info.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/SpaceBearing.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/schema/impl/XSQNameBuilder.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/IdBearing.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/config/XMLObjectProviderRegistrySupport.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/schema/impl/XSURIUnmarshaller.java
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* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/schema/package-info.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/config/GlobalParserPoolInitializer.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/config/XMLObjectProviderRegistry.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/schema/impl/XSAnyMarshaller.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/AbstractElementExtensibleXMLObjectMarshaller.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/config/provider/ClasspathConfigurationPropertiesSource.java
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* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/schema/impl/XSURIImpl.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/util/XMLAttributeSupport.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/criterion/EntityIdCriterion.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/io/UnmarshallingException.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/metrics/impl/DisabledTimer.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/AbstractExtensibleXMLObject.java
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* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/metrics/impl/DisabledMeter.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/schema/impl/XSBase64BinaryMarshaller.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/package-info.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/config/Configuration.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/schema/impl/XSIntegerUnmarshaller.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/io/AbstractXMLObjectUnmarshaller.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/AttributeExtensibleXMLObject.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/schema/XSAny.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/schema/XSInteger.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/config/ConfigurationPropertiesSource.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/io/AbstractXMLObjectMarshaller.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/schema/XSURI.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/schema/impl/package-info.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/io/package-info.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/AbstractElementExtensibleXMLObjectUnmarshaller.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/criterion/SatisfyAnyCriterion.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/schema/XSDateTime.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/io/UnmarshallerFactory.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/metrics/impl/DisabledMetric.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/config/InitializationException.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/schema/impl/XSBooleanUnmarshaller.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/schema/impl/XSBase64BinaryUnmarshaller.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-

jar/org/opensaml/core/xml/schema/impl/XSIntegerImpl.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/schema/impl/XSAnyUnmarshaller.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/persist/impl/SegmentingIntermediateDirectoryStrategy.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/LangBearing.java
* /opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/schema/impl/XSIntegerBuilder.java
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/opt/cola/permits/1811281736_1701687859.1031504/0/opensaml-core-4-2-0-sources-jar/org/opensaml/core/xml/AbstractElementExtensibleXMLObject.java

1.3021 antlr 4.13.0

1.3021.1 Available under license :

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*/
/*
This file contains the actual layout of the messages emitted by ANTLR.

The text itself is coming out of the languages/*stg files, according to the chosen locale.
This file contains the default format ANTLR uses.
*/

location(file, line, column) ::= "<file>(<line>,<column>)"

message(id, text) ::= "error <id> : <text>"

report(location, message, type) ::= "<location> : <type> <message.id> : <message.text>"

wantsSingleLineMessage() ::= "true"

Found in path(s):
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/messages/formats/vs2005.stg
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*/

```
/** Find left-recursive rules */
tree grammar LeftRecursiveRuleWalker;

options {
 tokenVocab=ANTLRParser;
   ASTLabelType=GrammarAST;
}

@header {
package org.antlr.v4.parse;

import org.antlr.v4.misc.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
}

@members {
private String ruleName;
private int currentOuterAltNumber; // which outer alt of rule?
public
 int numAlts;  // how many alts for this rule total?

public void setAltAssoc(AltAST altTree, int alt) {}
public void binaryAlt(AltAST altTree, int alt) {}
public void prefixAlt(AltAST altTree, int alt) {}
public void suffixAlt(AltAST altTree, int alt) {}
public void otherAlt(AltAST altTree, int alt) {}
public void setReturnValues(GrammarAST t) {}
}

@rulecatch { }

// TODO: can get parser errors for not matching pattern; make them go away
public
rec_rule returns [boolean isLeftRec]
@init
{
 currentOuterAltNumber = 1;
}
 : ^( r=RULE id=RULE_REF {ruleName=$id.getText();}
   ruleModifier?
//   (ARG_ACTION)? shouldn't allow args, right?
   (^(RETURNS a=ARG_ACTION {setReturnValues($a);}))?
//        ( ^(THROWS .+) )? don't allow
       ( ^(LOCALS ARG_ACTION) )? // TODO: copy these to gen'd code
       ( ^(OPTIONS .*)
      |   ^(AT ID ACTION) // TODO: copy
      )*
```

```
  ruleBlock {$isLeftRec = $ruleBlock.isLeftRec;}
  exceptionGroup
 )
 ;

exceptionGroup
  : exceptionHandler* finallyClause?
   ;

exceptionHandler
 : ^(CATCH ARG_ACTION ACTION)
 ;

finallyClause
 : ^(FINALLY ACTION)
 ;

ruleModifier
  : PUBLIC
  | PRIVATE
  | PROTECTED
  ;

ruleBlock returns [boolean isLeftRec]
@init{boolean lr=false; this.numAlts = $start.getChildCount();}
 : ^( BLOCK
  (
   o=outerAlternative
   {if ($o.isLeftRec) $isLeftRec = true;}
   {currentOuterAltNumber++;}
  )+
 )
 ;

/** An alt is either prefix, suffix, binary, or ternary operation or "other" */
outerAlternative returns [boolean isLeftRec]
  :   (binary)=>          binary
                     {binaryAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
  |   (prefix)=>          prefix
                     {prefixAlt((AltAST)$start, currentOuterAltNumber);}
  |   (suffix)=>          suffix
                     {suffixAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
  |   nonLeftRecur        {otherAlt((AltAST)$start,  currentOuterAltNumber);}
  ;

binary
 : ^(
```

```
 ALT elementOptions? recurse element* recurse epsilonElement* )
      {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
 ;

prefix
 : ^( ALT elementOptions?
   element+
   recurse epsilonElement*
   )
      {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
 ;

suffix
   :   ^( ALT elementOptions? recurse element+ )
      {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
   ;

nonLeftRecur
   :   ^(ALT elementOptions? element+)
   ;

recurse
 : ^(ASSIGN ID recurseNoLabel)
 | ^(PLUS_ASSIGN ID recurseNoLabel)
 | recurseNoLabel
 ;

recurseNoLabel : {((CommonTree)input.LT(1)).getText().equals(ruleName)}? RULE_REF;

token returns [GrammarAST t=null]
 : ^(ASSIGN ID s=token {$t = $s.t;})
 | ^(PLUS_ASSIGN ID s=token {$t = $s.t;})
 | b=STRING_LITERAL         {$t = $b;}
   | ^(b=STRING_LITERAL elementOptions)  {$t = $b;}
   | ^(c=TOKEN_REF elementOptions)   {$t = $c;}
 | c=TOKEN_REF              {$t = $c;}
 ;

elementOptions
   : ^(ELEMENT_OPTIONS elementOption*)

  ;

elementOption
   : ID
   |   ^(ASSIGN ID ID)
   |   ^(ASSIGN ID STRING_LITERAL)
   |   ^(ASSIGN ID ACTION)
```

```
  |   ^(ASSIGN ID INT)
  ;

element
 : atom
 | ^(NOT element)
 | ^(RANGE atom atom)
 | ^(ASSIGN ID element)
 | ^(PLUS_ASSIGN ID element)
  | ^(SET setElement+)
  |   RULE_REF
 | ebnf
 | epsilonElement
 ;

epsilonElement
 : ACTION
 | SEMPRED
 | EPSILON
 | ^(ACTION elementOptions)
 | ^(SEMPRED elementOptions)
 ;

setElement
 : ^(STRING_LITERAL elementOptions)
 | ^(TOKEN_REF elementOptions)
 | STRING_LITERAL
 | TOKEN_REF
 ;

ebnf:   block
  |   ^( OPTIONAL block )
  |   ^( CLOSURE block )
  |   ^( POSITIVE_CLOSURE block )
  ;

block
  : ^(BLOCK ACTION? alternative+)
  ;

alternative
 : ^(ALT elementOptions? element+)
  ;

atom
 : ^(RULE_REF ARG_ACTION? elementOptions?)
  | ^(STRING_LITERAL elementOptions)
 | STRING_LITERAL
```

```
  | ^(TOKEN_REF elementOptions)
 | TOKEN_REF
  | ^(WILDCARD elementOptions)
 | WILDCARD
 | ^(DOT ID element)
 ;
```

Found in path(s):
*
/opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/LeftRecursiveRuleWalker.g
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*/
```


Found in path(s):
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/codegen/Cpp/Files.stg
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*/

tree grammar SourceGenTriggers;
options {
 language     = Java;
 tokenVocab   = ANTLRParser;
 ASTLabelType = GrammarAST;
}

@header {
package org.antlr.v4.codegen;
import org.antlr.v4.misc.Utils;
import org.antlr.v4.codegen.model.*;
import org.antlr.v4.codegen.model.decl.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.util.Collections;
import
```

```
 java.util.Map;
import java.util.HashMap;
}

@members {
 public OutputModelController controller;
   public boolean hasLookaheadBlock;
   public SourceGenTriggers(TreeNodeStream input, OutputModelController controller) {
    this(input);
    this.controller = controller;
   }
}

dummy : block[null, null] ;

block[GrammarAST label, GrammarAST ebnfRoot] returns [List<? extends SrcOp> omos]
   : ^( blk=BLOCK (^(OPTIONS .+))?
   {List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();}
     ( alternative {alts.add($alternative.altCodeBlock);} )+
    )
    {
    if ( alts.size()==1 && ebnfRoot==null) return alts;
    if ( ebnfRoot==null ) {
        $omos = DefaultOutputModelFactory.list(controller.getChoiceBlock((BlockAST)$blk, alts, $label));
    }
    else {
           Choice choice = controller.getEBNFBlock($ebnfRoot, alts);
           hasLookaheadBlock |= choice instanceof PlusBlock || choice instanceof StarBlock;
        $omos = DefaultOutputModelFactory.list(choice);
     }
    }
   ;

alternative returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]
@init {
   boolean outerMost = inContext("RULE BLOCK");
}
@after {
   controller.finishAlternative($altCodeBlock, $ops, outerMost);
}
   : a=alt[outerMost] {$altCodeBlock=$a.altCodeBlock; $ops=$a.ops;}
 ;

alt[boolean outerMost] returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]
@init {
 // set alt if outer ALT only (the only ones with alt field set to Alternative object)
 AltAST altAST = (AltAST)retval.start;
 if ( outerMost ) controller.setCurrentOuterMostAlt(altAST.alt);
```

```
}
 : {
  List<SrcOp> elems = new ArrayList<SrcOp>();
  // TODO: shouldn't we pass $start to controller.alternative()?
  $altCodeBlock = controller.alternative(controller.getCurrentOuterMostAlt(), outerMost);
  $altCodeBlock.ops = $ops = elems;
  controller.setCurrentBlock($altCodeBlock);
  }
  ^( ALT elementOptions? ( element {if ($element.omos!=null) elems.addAll($element.omos);} )+ )

 | ^(ALT elementOptions?
 EPSILON)
      {$altCodeBlock = controller.epsilon(controller.getCurrentOuterMostAlt(), outerMost);}
   ;

element returns [List<? extends SrcOp> omos]
 : labeledElement     {$omos = $labeledElement.omos;}
 | atom[null,false]   {$omos = $atom.omos;}
 | subrule       {$omos = $subrule.omos;}
 |   ACTION       {$omos = controller.action((ActionAST)$ACTION);}
 |   SEMPRED       {$omos = controller.sempred((ActionAST)$SEMPRED);}
 | ^(ACTION elementOptions)  {$omos = controller.action((ActionAST)$ACTION);}
 |   ^(SEMPRED elementOptions)  {$omos = controller.sempred((ActionAST)$SEMPRED);}
 ;

labeledElement returns [List<? extends SrcOp> omos]
 : ^(ASSIGN ID atom[$ID,false] )   {$omos = $atom.omos;}
 | ^(PLUS_ASSIGN ID atom[$ID,false])  {$omos = $atom.omos;}
 | ^(ASSIGN ID block[$ID,null] )   {$omos = $block.omos;}
 | ^(PLUS_ASSIGN ID block[$ID,null])  {$omos = $block.omos;}
 ;

subrule returns [List<? extends SrcOp> omos]
 : ^(OPTIONAL b=block[null,$OPTIONAL])
  {
  $omos = $block.omos;
  }
 | ( ^(op=CLOSURE
 b=block[null,null])
  | ^(op=POSITIVE_CLOSURE b=block[null,null])
  )
  {
  List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();
  SrcOp blk = $b.omos.get(0);
  CodeBlockForAlt alt = new CodeBlockForAlt(controller.delegate);
  alt.addOp(blk);
  alts.add(alt);
  SrcOp loop = controller.getEBNFBlock($op, alts); // "star it"
```

```
      hasLookaheadBlock |= loop instanceof PlusBlock || loop instanceof StarBlock;
      $omos = DefaultOutputModelFactory.list(loop);
  }
 |  block[null, null]     {$omos = $block.omos;}
   ;

blockSet[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
   : ^(SET atom[label,invert]+) {$omos = controller.set($SET, $label, invert);}
   ;

/*
setElement
 : STRING_LITERAL
 | TOKEN_REF
 | ^(RANGE STRING_LITERAL STRING_LITERAL)
 ;
*/

// TODO: combine ROOT/BANG into one then just make new op ref'ing return value of atom/terminal...
// TODO: same for NOT
atom[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
 : ^(NOT
 a=atom[$label, true])  {$omos = $a.omos;}
 | range[label]       {$omos = $range.omos;}
 | ^(DOT ID terminal[$label])
 | ^(DOT ID ruleref[$label])
   | ^(WILDCARD .)       {$omos = controller.wildcard($WILDCARD, $label);}
   | WILDCARD        {$omos = controller.wildcard($WILDCARD, $label);}
   |   terminal[label]     {$omos = $terminal.omos;}
   |   ruleref[label]     {$omos = $ruleref.omos;}
 | blockSet[$label, invert]  {$omos = $blockSet.omos;}
 ;

ruleref[GrammarAST label] returns [List<SrcOp> omos]
   : ^(RULE_REF ARG_ACTION? elementOptions?)  {$omos = controller.ruleRef($RULE_REF, $label,
$ARG_ACTION);}
   ;

range[GrammarAST label] returns [List<SrcOp> omos]
   : ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
   ;

terminal[GrammarAST label] returns [List<SrcOp> omos]
   :  ^(STRING_LITERAL .)   {$omos = controller.stringRef($STRING_LITERAL, $label);}
   | STRING_LITERAL    {$omos = controller.stringRef($STRING_LITERAL, $label);}
   | ^(TOKEN_REF ARG_ACTION .) {$omos =
 controller.tokenRef($TOKEN_REF, $label, $ARG_ACTION);}
   | ^(TOKEN_REF .)    {$omos = controller.tokenRef($TOKEN_REF, $label, null);}
```

```
  | TOKEN_REF     {$omos = controller.tokenRef($TOKEN_REF, $label, null);}
  ;

elementOptions
  : ^(ELEMENT_OPTIONS elementOption+)
  ;

elementOption
  : ID
  |  ^(ASSIGN ID ID)
  |  ^(ASSIGN ID STRING_LITERAL)
  |  ^(ASSIGN ID ACTION)
  |  ^(ASSIGN ID INT)
  ;
```

Found in path(s):
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/SourceGenTriggers.g
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```

```
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*/

SwiftTypeInitMap ::= [
 "Int":"0",
 "Int64":"0",
 "Float":"0.0",
 "Double":"0.0",
 "Bool":"false",
 default:"nil" // anything other than a primitive type is an object
]
SwiftTypeMap ::= [
 "int":"Int",
 "float":"Float",
 "long":"Int64",
 "double":"Double",
 "bool":"Bool",
 "boolean":"Bool",
 default : key
]
// args must be <object-model-object>,
 <fields-resulting-in-STs>

accessLevelOpenOK(obj) ::= "<obj.accessLevel; null=\"open\">"
accessLevelNotOpen(obj) ::= "<obj.accessLevel; null=\"public\">"

ParserFile(file, parser, namedActions,contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<namedActions.header>
import Antlr4

<parser>
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>
import Antlr4

/**
* This interface defines a complete listener for a parse tree produced by
```

```
* {@link <file.parserName>}.
*/
<accessLevelNotOpen(file)> protocol <file.grammarName>Listener: ParseTreeListener {
 <file.listenerNames:{lname |
/**
<if(file.listenerLabelRuleNames.(lname))>
* Enter a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.listenerLabelRuleNames.(lname)>\}.
<else>
 * Enter a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
- Parameters:
  - ctx: the parse tree
*/
func enter<lname; format="cap">(_ ctx: <file.parserName>.<lname; format="cap">Context)
/**
<if(file.listenerLabelRuleNames.(lname))>
* Exit a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.listenerLabelRuleNames.(lname)>\}.
<else>
* Exit a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
- Parameters:
  - ctx: the parse tree
*/
func exit<lname; format="cap">(_ ctx: <file.parserName>.<lname; format="cap">Context)}; separator="\n">
}
>>

BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>

import Antlr4


/**
* This class provides an empty implementation of {@link <file.grammarName>Listener},
* which can be extended to create a listener which only needs to handle
 a subset
* of the available methods.
*/
<accessLevelOpenOK(file)> class <file.grammarName>BaseListener: <file.grammarName>Listener {
    <accessLevelNotOpen(file)> init() { \}
 <file.listenerNames:{lname |
```

```
/**
* {@inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
<accessLevelOpenOK(file)> func enter<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) { \}
/**
* {@inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
<accessLevelOpenOK(file)> func exit<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) { \}}; separator="\n">

 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 <accessLevelOpenOK(file)> func enterEveryRule(_ ctx: ParserRuleContext) throws { }
 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 <accessLevelOpenOK(file)> func exitEveryRule(_ ctx: ParserRuleContext) throws { }
 /**
  * {@inheritDoc\}
  *

 * \<p>The default implementation does nothing.\</p>
  */
 <accessLevelOpenOK(file)> func visitTerminal(_ node: TerminalNode) { }
 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 <accessLevelOpenOK(file)> func visitErrorNode(_ node: ErrorNode) { }
}
>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
```

```
<endif>
<header>
import Antlr4

/**
* This interface defines a complete generic visitor for a parse tree produced
* by {@link <file.parserName>}.
*
* @param \<T> The return type of the visit operation. Use {@link Void} for
* operations with no return type.
*/
<accessLevelOpenOK(file)> class <file.grammarName>Visitor\<T>: ParseTreeVisitor\<T> {
 <file.visitorNames:{lname |
/**
<if(file.visitorLabelRuleNames.(lname))>
* Visit a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.visitorLabelRuleNames.(lname)>\}.
<else>
 * Visit a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
- Parameters:
 - ctx: the parse tree
- returns: the visitor result
*/
<accessLevelOpenOK(file)> func visit<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) -> T {
 fatalError(#function + " must be overridden")
\}
}; separator="\n">
}
>>

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>
import Antlr4

/**
* This class provides an empty implementation of {@link <file.grammarName>Visitor},
* which can be extended to create a visitor which only needs to handle a subset
* of the available methods.
*
* @param \<T> The return type of the visit operation. Use {@link Void} for
* operations with no return type.
*/
```

```
<accessLevelOpenOK(file)> class <file.grammarName>BaseVisitor\<T>: AbstractParseTreeVisitor\<T> {
 <file.visitorNames:{lname
 |
/**
* {@inheritDoc\}
*
* \<p>The default implementation returns the result of calling
* {@link #visitChildren\} on {@code ctx\}.\</p>
*/
<accessLevelOpenOK(file)> func visit<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) -> T? { return visitChildren(ctx) \}}; separator="\n">
}
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName> by ANTLR <ANTLRVersion>
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<!//@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast"})!>
<accessLevelOpenOK(parser)> class <parser.name>: <superClass; null="Parser"> {

 internal static var _decisionToDFA: [DFA] = {
        var decisionToDFA = [DFA]()
        let length = <parser.name>._ATN.getNumberOfDecisions()
        for i in 0..\<length {
         <!// decisionToDFA[i] = DFA(<parser.name>._ATN.getDecisionState(i)!,
 i);!>
          decisionToDFA.append(DFA(<parser.name>._ATN.getDecisionState(i)!, i))
         }
         return decisionToDFA
   }()

 internal static let _sharedContextCache = PredictionContextCache()

 <if(parser.tokens)>
 <accessLevelNotOpen(parser)>
 enum Tokens: Int {
  case EOF = -1, <parser.tokens:{k | <k> = <parser.tokens.(k)>}; separator=", ", wrap, anchor>
 }
 <endif>

 <accessLevelNotOpen(parser)>
 <if(parser.rules)>
```

```
 static let <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>
 <endif>

 <accessLevelNotOpen(parser)>
 static let ruleNames: [String] = [
  <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
 ]

 <vocabulary(parser.literalNames, parser.symbolicNames,
                 accessLevelNotOpen(parser))>

 override <accessLevelOpenOK(parser)>
 func getGrammarFileName() -> String { return "<parser.grammarFileName>" }

 override <accessLevelOpenOK(parser)>
 func getRuleNames() -> [String] { return <parser.name>.ruleNames
 }

 override <accessLevelOpenOK(parser)>
 func getSerializedATN() -> [Int] { return <parser.name>._serializedATN }

 override <accessLevelOpenOK(parser)>
 func getATN() -> ATN { return <parser.name>._ATN }

 <namedActions.members>
 <parser:(ctor)()>
 <funcs; separator="\n">

<if(sempredFuncs)>
 override <accessLevelOpenOK(parser)>
 func sempred(_ _localctx: RuleContext?, _ ruleIndex: Int,  _ predIndex: Int)throws -> Bool {
  switch (ruleIndex) {
  <parser.sempredFuncs.values:{f|
case  <f.ruleIndex>:
 return try <f.name>_sempred(_localctx?.castdown(<f.ctxType>.self), predIndex)}; separator="\n">
     default: return true
  }
  <!return true;!>
 }
 <sempredFuncs.values; separator="\n">
<endif>

 <atn>

 <accessLevelNotOpen(parser)>
 static let _ATN = try! ATNDeserializer().deserialize(_serializedATN)
}
>>
```

```
vocabulary(literalNames, symbolicNames, accessLevel) ::= <<
private static let _LITERAL_NAMES: [String?] = [
 <literalNames:{t | <t>}; null="nil", separator=", ", wrap,
 anchor>
]
private static let _SYMBOLIC_NAMES: [String?] = [
 <symbolicNames:{t | <t>}; null="nil", separator=", ", wrap, anchor>
]
<accessLevel>
static let VOCABULARY = Vocabulary(_LITERAL_NAMES, _SYMBOLIC_NAMES)
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
override <accessLevelOpenOK(parser)>
func action(_ _localctx: RuleContext?,  _ ruleIndex: Int, _ actionIndex: Int) throws {
 switch (ruleIndex) {
 <recog.actionFuncs.values:{f|
case <f.ruleIndex>:
 try <f.name>_action((_localctx as <f.ctxType>?), actionIndex)
  }; separator="\n">
 default: break
 }
}
<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
override <accessLevelOpenOK(parser)>
func sempred(_ _localctx: RuleContext?, _  ruleIndex: Int,_   predIndex: Int) throws -> Bool {
 switch (ruleIndex) {
 <recog.sempredFuncs.values:{f|
case <f.ruleIndex>:
 return try <f.name>_sempred(_localctx?.castdown(<f.ctxType>.self), predIndex)}; separator="\n">
 default: return true
 }
 <!return
 true;!>
}
<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(p) ::= <<

override <accessLevelOpenOK(parser)>
func getVocabulary() -> Vocabulary {
   return <p.name>.VOCABULARY
```

```
}

override <accessLevelNotOpen(parser)>
init(_ input:TokenStream) throws {
   RuntimeMetaData.checkVersion("<file.ANTLRVersion>", RuntimeMetaData.VERSION)
 try super.init(input)
 _interp = ParserATNSimulator(self,<p.name>._ATN,<p.name>._decisionToDFA,
<parser.name>._sharedContextCache)
}

>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
private func <r.name>_action(_ _localctx: <r.ctxType>?,  _ actionIndex: Int) throws {
 switch (actionIndex) {
 <actions:{index|
case <index>:
 <actions.(index)>
  }; separator="\n">
  default: break
 }
}
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
 */
RuleSempredFunction(r, actions) ::= <<
private func <r.name>_sempred(_ _localctx: <r.ctxType>!,  _ predIndex: Int) throws -> Bool {
 switch (predIndex) {
 <actions:{index|
   case <index>:return <actions.(index)>}; separator="\n">
     default: return true
 }
 <!return true;!>
}
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<
<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">
@discardableResult
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else> <accessLevelOpenOK(parser)> func
<endif><currentRule.escapedName>(<if(first(args))>_ <endif><args; separator=", _">) throws ->
```

```
<currentRule.ctxType> {
 var _localctx: <currentRule.ctxType>
 _localctx = <currentRule.ctxType>(_ctx, getState()<currentRule.args:{a | , <a.escapedName>}>)
 try enterRule(_localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>)
 <namedActions.init>
 <locals; separator="\n">
 defer {

    <finallyAction>
     try! exitRule()
   }
 do {
<if(currentRule.hasLookaheadBlock)>
  var _alt:Int
<endif>
   <code>
  <postamble; separator="\n">
   <namedActions.after>
 }
 <if(exceptions)>
 <exceptions; separator="\n">
 <else>
 catch ANTLRException.recognition(let re) {
  _localctx.exception = re
  _errHandler.reportError(self, re)
  try _errHandler.recover(self, re)
 }
 <endif>

 return _localctx
}
>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
 namedActions,finallyAction,postamble) ::=
<<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else> <accessLevelNotOpen(parser)> final <endif>
func <currentRule.escapedName>( <if(first(args))>_ <endif><args; separator=", _">) throws ->
<currentRule.ctxType>   {
 return try <currentRule.escapedName>(0<currentRule.args:{a | , <a.escapedName>}>)
}
@discardableResult
private func <currentRule.escapedName>(_ _p<args:{a | , <a>}>:
```

```
 Int) throws -> <currentRule.ctxType>   {
 let _parentctx: ParserRuleContext? = _ctx
 let _parentState: Int = getState()
 var _localctx: <currentRule.ctxType>
 _localctx = <currentRule.ctxType>(_ctx, _parentState<currentRule.args:{a | , <a.escapedName>}>)
 var _prevctx: <currentRule.ctxType> = _localctx
 let _startState: Int = <currentRule.startState>
 try enterRecursionRule(_localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>, _p)
 <namedActions.init>
 <locals; separator="\n">
 defer {
     <finallyAction>
     try! unrollRecursionContexts(_parentctx)
   }
 do {
<if(currentRule.hasLookaheadBlock)>
  var _alt: Int
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 }
 catch ANTLRException.recognition(let re) {
  _localctx.exception = re
  _errHandler.reportError(self, re)
  try _errHandler.recover(self, re)
 }

 return _localctx;
}
>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx
 =  <currentOuterMostAltCodeBlock.altLabel; format="cap">Context(_localctx);<endif>
try enterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>)
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<!//{!>
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
<!//}!>
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
```

```
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = try _input.LT(1)<endif>
<preamble; separator="\n">
switch (<parser.name>.Tokens(rawValue: try _input.LA(1))!) {
<choice.altLook,alts:{look,alt | <cases(tokens=look)>
 <alt>
 break}; separator="\n">
default:
 <error>
}
>>

LL1OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
switch (<parser.name>.Tokens(rawValue: try _input.LA(1))!) {
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
  <alt>
 break}; separator="\n">
default:
 break
}
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<preamble; separator="\n">
if (<expr>) {
 <alts; separator="\n">
}
<!else if ( !(<followExpr>) ) <error>!>
>>

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<preamble; separator="\n">
while (<loopExpr>) {
 <alts; separator="\n">
 setState(<choice.loopBackStateNumber>)
 try _errHandler.sync(self)
 <iteration>
}
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
```

```
setState(<choice.blockStartStateNumber>) <! alt block decision !>
try _errHandler.sync(self)
<preamble; separator="\n">
repeat {
 <alts; separator="\n">
 setState(<choice.stateNumber>); <! loopback/exit decision !>
 try _errHandler.sync(self)
 <iteration>
} while (<loopExpr>)
>>

// LL(*) stuff

AltBlock(choice,
 preamble, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = try _input.LT(1)<endif>
<preamble; separator="\n">
switch(try getInterpreter().adaptivePredict(_input,<choice.decision>, _ctx)) {
<alts:{alt |
case <i>:
 <alt>
 break}; separator="\n">
default: break
}
>>

OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
switch (try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)) {
<alts:{alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break}; separator="\n">
default: break
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
_alt = try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)
while (_alt != <choice.exitAlt> && _alt != ATN.INVALID_ALT_NUMBER) {
 if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {
  <iteration>
  <alts> <! should only be one !>
```

```
 }
 setState(<choice.loopBackStateNumber>)
 try
 _errHandler.sync(self)
 _alt = try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)
}
>>

PlusBlock(choice, alts, error) ::= <<
setState(<choice.blockStartStateNumber>); <! alt block decision !>
try _errHandler.sync(self)
_alt = 1<if(!choice.ast.greedy)>+1<endif>;
repeat {
 switch (_alt) {
 <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break}; separator="\n">
 default:
  <error>
 }
 setState(<choice.loopBackStateNumber>); <! loopback/exit decision !>
 try _errHandler.sync(self)
 _alt = try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)
} while (_alt != <choice.exitAlt> && _alt !=  ATN.INVALID_ALT_NUMBER)
>>

Sync(s) ::= "sync(<s.expecting.name>);"

ThrowNoViableAlt(t) ::= "throw ANTLRException.recognition(e: NoViableAltException(self))"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.tokens)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>

//
 Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
(Int64(<shiftAmount>) & ~0x3f) == 0
>>

bitsetBitfieldComparison(s, bits) ::= <<
(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((Int64(1) \<\< <offsetShift(s.varName,
bits.shift)>) & <bits.calculated>) != 0)
>>

isZero ::= [
```

```
"0": true,
default: false
]
parserName(t) ::= <%
<parser.name>.Tokens.<t.name>.rawValue
%>
offsetShift(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

bitsetInlineComparison(s, bits) ::= <%
<bits.tokens:{t | <s.varName> == <parser.name>.Tokens.<t.name>.rawValue}; separator=" || ">
%>

cases(tokens) ::= <<
<trunc(tokens): {t | case .<t.name>:fallthrough}  ; separator="\n">
<last(tokens): {t | case .<t.name>:}  ; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
setState(<r.stateNumber>)
<if(r.labels)>
try {
  let assignmentValue = try
<r.escapedName>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChunks>)
  <r.labels:{l
 | <labelref(l)> = assignmentValue} ; separator="\n">
    }()
<else>try
<r.escapedName>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChunks>)<
endif>
>>

MatchToken(m) ::= <<
setState(<m.stateNumber>)
<if(m.labels)>
try {
  let assignmentValue = try match(<parser.name>.Tokens.<m.escapedName>.rawValue)
  <m.labels:{l | <labelref(l)> = assignmentValue}  ; separator="\n">
    }()
<else>try match(<parser.name>.Tokens.<m.escapedName>.rawValue)<endif>
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
```

```
setState(<m.stateNumber>)
<if(m.labels)><m.labels:{l | <labelref(l)> = }>try _input.LT(1)<endif>
<capture>
if (<if(invert)><m.varName> \<= 0 || <else>!<endif>(<expr>)) {
 <if(m.labels)><m.labels:{l
 | <labelref(l)> = }><endif>try _errHandler.recoverInline(self)<if(m.labels)> as Token<endif>
}
else {
 _errHandler.reportMatch(self)
 try consume()
}
>>

Wildcard(w) ::= <<
setState(<w.stateNumber>)
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>try matchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
setState(<p.stateNumber>)
if (!(<chunks>)) {
   throw ANTLRException.recognition(e:FailedPredicateException(self, <p.predicate><if(failChunks)>,
<failChunks><elseif(p.msg)>, <p.msg><endif>))
}
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
 <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "skip()"
LexerMoreCommand()  ::= "more()"
LexerPopModeCommand() ::= "popMode()"

LexerTypeCommand(arg)      ::= "_type = <arg>"
LexerChannelCommand(arg)   ::= "_channel = <arg>"
LexerModeCommand(arg)      ::= "_mode =
```

```
 <arg>"
LexerPushModeCommand(arg)  ::= "pushMode(<arg>)"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<a.escapedName>"
LocalRef(a) ::= "_localctx.<a.escapedName>"
RetValueRef(a) ::= "_localctx.<a.escapedName>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.escapedName>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.escapedName>"
LabelRef(t) ::= "<ctx(t)>.<t.escapedName>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.escapedName)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.escapedName> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getText()! : \"\")"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getType() : 0)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getLine() : 0)"
TokenPropertyRef_pos(t) ::= "(<ctx(t)>.<t.label>
 != nil ? <ctx(t)>.<t.label>!.getCharPositionInLine() : 0)"
TokenPropertyRef_channel(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getChannel() : 0)"
TokenPropertyRef_index(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getTokenIndex() : 0)"
TokenPropertyRef_int(t) ::= "(<ctx(t)>.<t.label> != nil ? Int(<ctx(t)>.<t.label>!.getText()!) : 0)"

RulePropertyRef_start(r) ::= "(<ctx(r)>.<r.label> != nil ? (<ctx(r)>.<r.label>!.start?.description ?? \"\") : \"\")"
RulePropertyRef_stop(r)  ::= "(<ctx(r)>.<r.label> != nil ? (<ctx(r)>.<r.label>!.stop?.description ?? \"\") : \"\")"
RulePropertyRef_text(r)  ::= "(<ctx(r)>.<r.label> != nil ? try
_input.getText(<ctx(r)>.<r.label>!.start,<ctx(r)>.<r.label>!.stop) : \"\")"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "self"

ThisRulePropertyRef_start(r) ::= "_localctx.start"
ThisRulePropertyRef_stop(r)  ::= "_localctx.stop"
ThisRulePropertyRef_text(r)  ::= "(try _input.getText(_localctx.start,
 try _input.LT(-1)))"
ThisRulePropertyRef_ctx(r)  ::= "_localctx"
ThisRulePropertyRef_parser(r)  ::= "self"

NonLocalAttrRef(s)   ::= "((<s.ruleName;
format=\"cap\">Context)getInvokingContext(<s.ruleIndex>)).<s.escapedName>"
SetNonLocalAttr(s, rhsChunks)   ::=
 "((<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>)).<s.escapedName> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.append(<labelref(a.label)>)"
```

```
TokenDecl(t) ::= "<t.escapedName>: <SwiftTypeMap.(TokenLabelType())>!"
TokenTypeDecl(t) ::= "var <t.escapedName>: Int = 0"
TokenListDecl(t) ::= "<t.escapedName>: [Token] = [Token]()"
RuleContextDecl(r) ::= "<r.escapedName>: <r.ctxName>!"
RuleContextListDecl(rdecl) ::= "<rdecl.escapedName>: [<rdecl.ctxName>] = [<rdecl.ctxName>]()"

ContextTokenGetterDecl(t) ::= <<
 <accessLevelOpenOK(parser)>
 func <t.escapedName>() -> TerminalNode? {
  return getToken(<parser.name>.Tokens.<t.escapedName>.rawValue, 0)
 }
>>
ContextTokenListGetterDecl(t)
 ::= <<
 <accessLevelOpenOK(parser)>
 func <t.escapedName>() -> [TerminalNode] {
  return getTokens(<parser.name>.Tokens.<t.escapedName>.rawValue)
 }
>>
ContextTokenListIndexedGetterDecl(t) ::= <<
 <accessLevelOpenOK(parser)>
 func <t.escapedName>(_ i:Int) -> TerminalNode? {
  return getToken(<parser.name>.Tokens.<t.escapedName>.rawValue, i)
 }
>>
ContextRuleGetterDecl(r) ::= <<
 <accessLevelOpenOK(parser)>
 func <r.escapedName>() -> <r.ctxName>? {
  return getRuleContext(<r.ctxName>.self, 0)
 }
>>
ContextRuleListGetterDecl(r) ::= <<
 <accessLevelOpenOK(parser)>
 func <r.escapedName>() -> [<r.ctxName>] {
  return getRuleContexts(<r.ctxName>.self)
 }
>>
ContextRuleListIndexedGetterDecl(r)   ::= <<
 <accessLevelOpenOK(parser)>
 func <r.escapedName>(_ i: Int) -> <r.ctxName>? {
  return getRuleContext(<r.ctxName>.self, i)
 }
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
* r becomes rContext.
```

```
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName)
 ::= "_<tokenName>"
ImplicitRuleLabel(ruleName)   ::= "_<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)    ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = try _input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = try _input.LA(1)"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,signatures,
        superClass={ParserRuleContext}) ::= <<

<accessLevelNotOpen(parser)> class <struct.escapedName>:
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)>, <interfaces;
separator=", "><endif> {
 <attrs:{a | <accessLevelOpenOK(parser)> var <a>}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 <! <if(ctorAttrs)> <accessLevelNotOpen(parser)> init(_ parent: ParserRuleContext,_ invokingState: Int) {
super.init(parent, invokingState)  }<endif> !>
 <if(ctorAttrs)>
 <accessLevelNotOpen(parser)> convenience init(_ parent: ParserRuleContext?, _ invokingState:
 Int<ctorAttrs:{a | , _ <a>}>) {
  self.init(parent, invokingState)
  <struct.ctorAttrs:{a | self.<a.escapedName> = <a.escapedName>;}; separator="\n">
 }
 <endif>

 override <accessLevelOpenOK(parser)>
 func getRuleIndex() -> Int {
  return <parser.name>.RULE_<struct.derivedFromName>
 }
<if(struct.provideCopyFrom && struct.attrs)> <! don't need copy unless we have subclasses !>
 <accessLevelOpenOK(parser)>
 override func copyFrom(_ ctx_: ParserRuleContext) {
  super.copyFrom(ctx_)
  let ctx = ctx_ as! <struct.escapedName>
  <struct.attrs:{a | self.<a.escapedName> = ctx.<a.escapedName>;}; separator="\n">
 }
<endif>
 <dispatchMethods; separator="\n">
 <extensionMembers; separator="\n">
}
>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
```

```
<accessLevelNotOpen(parser)> class <struct.escapedName>: <currentRule.name; format="cap">Context {
 <attrs:{a | <accessLevelNotOpen(parser)> var <a>}; separator="\n">
 <getters:{g | <g>}; separator="\n">

 <accessLevelNotOpen(parser)>
 init(_
 ctx: <currentRule.name; format="cap">Context) {
  super.init()
  copyFrom(ctx)
 }
 <dispatchMethods; separator="\n">
}
>>

ListenerDispatchMethod(method) ::= <<
override <accessLevelOpenOK(parser)>
func <if(method.isEnter)>enter<else>exit<endif>Rule(_ listener: ParseTreeListener) {
 if let listener = listener as? <parser.grammarName>Listener {
  listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(self)
 }
}
>>

VisitorDispatchMethod(method) ::= <<
override <accessLevelOpenOK(parser)>
func accept\<T>(_ visitor: ParseTreeVisitor\<T>) -> T? {
 if let visitor = visitor as? <parser.grammarName>Visitor {
    return visitor.visit<struct.derivedFromName; format="cap">(self)
 }
 else if let visitor = visitor as? <parser.grammarName>BaseVisitor {
    return visitor.visit<struct.derivedFromName; format="cap">(self)
 }
 else {
     return visitor.visitChildren(self)
 }
}
>>

AttributeDecl(d) ::= "<d.escapedName>: <SwiftTypeMap.(d.type)><if(d.initValue)>
 = <d.initValue><else>!<endif>"

/** If we don't know location of label def x, use this template (_localctx as! <x.ctx.name> */
labelref(x) ::= "<if(!x.isLocal)>_localctx.castdown(<x.ctx.name>.self).<endif><x.escapedName>"

/** For any action chunk, what is correctly-typed context struct ptr?    */
ctx(actionChunk) ::= "_localctx.castdown(<actionChunk.ctx.name>.self)"

// used for left-recursive rules
```

```
recRuleAltPredicate(ruleName,opPrec)  ::= "precpred(_ctx, <opPrec>)"
recRuleSetReturnAction(src,name)   ::= "$<name>=$<src>.<name>"
recRuleSetStopToken()                ::= "_ctx!.stop = try _input.LT(-1)"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
_localctx = <ctxName>Context(_parentctx, _parentState);
<if(label)>
<if(isListLabel)>
_localctx.<label>.append(_prevctx)
<else>
_localctx.<label> = _prevctx
<endif>
<endif>
try pushNewRecursionContext(_localctx, _startState, <parser.name>.RULE_<ruleName>)
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel,
 label, isListLabel) ::= <<
_localctx = <currentAltLabel; format="cap">Context(  <ruleName; format="cap">Context(_parentctx,
_parentState))
<if(label)>
<if(isListLabel)>
(_localctx as! <currentAltLabel; format="cap">Context).<label>.append(_prevctx)
<else>
(_localctx as! <currentAltLabel; format="cap">Context).<label> = _prevctx
<endif>
<endif>
try pushNewRecursionContext(_localctx, _startState, <parser.name>.RULE_<ruleName>)
>>

recRuleReplaceContext(ctxName) ::= <<
_localctx = <ctxName>Context(_localctx)
_ctx = _localctx
_prevctx = _localctx
>>

recRuleSetPrevCtx() ::= <<
if _parseListeners != nil {
  try triggerExitRuleEvent()
}
_prevctx = _localctx
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
<if(lexerFile.genPackage)>
<!package <lexerFile.genPackage>;!>
```

```
<endif>
<namedActions.header>
import Antlr4

<lexer>
>>
Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<accessLevelOpenOK(lexer)> class <lexer.name>:
 <superClass; null="Lexer"> {

 internal static var _decisionToDFA: [DFA] = {
        var decisionToDFA = [DFA]()
        let length = <lexer.name>._ATN.getNumberOfDecisions()
        for i in 0..\<length {
          <! decisionToDFA[i] = DFA(<lexer.name>._ATN.getDecisionState(i)!, i);!>
             decisionToDFA.append(DFA(<lexer.name>._ATN.getDecisionState(i)!, i))
        }
         return decisionToDFA
   }()

 internal static let _sharedContextCache = PredictionContextCache()

 <accessLevelNotOpen(lexer)>
 <if(lexer.tokens)>
 static let <lexer.tokens:{k | <k>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>
 <endif>

 <if(lexer.escapedChannels)>
 <accessLevelNotOpen(lexer)>
 static let <lexer.escapedChannels:{k | <k>=<lexer.escapedChannels.(k)>}; separator=", ", wrap, anchor>
 <endif>
 <if(rest(lexer.escapedModeNames))>
 <accessLevelNotOpen(lexer)>
 static let <rest(lexer.escapedModeNames):{m| <m>=<i>}; separator=", ", wrap, anchor>
 <endif>
 <accessLevelNotOpen(lexer)>
 static
 let channelNames: [String] = [
  "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channelNames)>, <lexer.channelNames:{c| "<c>"};
separator=", ", wrap, anchor><endif>
 ]

 <accessLevelNotOpen(lexer)>
 static let modeNames: [String] = [
  <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor>
 ]

 <accessLevelNotOpen(lexer)>
```

```
static let ruleNames: [String] = [
 <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
]

<vocabulary(lexer.literalNames, lexer.symbolicNames,
                accessLevelNotOpen(lexer))>

<namedActions.members>

override <accessLevelOpenOK(lexer)>
func getVocabulary() -> Vocabulary {
 return <lexer.name>.VOCABULARY
}

<accessLevelNotOpen(lexer)>
required init(_ input: CharStream) {
    RuntimeMetaData.checkVersion("<lexerFile.ANTLRVersion>", RuntimeMetaData.VERSION)
 super.init(input)
 _interp = LexerATNSimulator(self, <lexer.name>._ATN, <lexer.name>._decisionToDFA,
<lexer.name>._sharedContextCache)
}

override <accessLevelOpenOK(lexer)>
func
getGrammarFileName() -> String { return "<lexer.grammarFileName>" }

override <accessLevelOpenOK(lexer)>
func getRuleNames() -> [String] { return <lexer.name>.ruleNames }

override <accessLevelOpenOK(lexer)>
func getSerializedATN() -> [Int] { return <lexer.name>._serializedATN }

override <accessLevelOpenOK(lexer)>
func getChannelNames() -> [String] { return <lexer.name>.channelNames }

override <accessLevelOpenOK(lexer)>
func getModeNames() -> [String] { return <lexer.name>.modeNames }

override <accessLevelOpenOK(lexer)>
func getATN() -> ATN { return <lexer.name>._ATN }

<dumpActions(lexer, "", actionFuncs, sempredFuncs)>
<atn>

<accessLevelNotOpen(lexer)>
static let _ATN: ATN = try! ATNDeserializer().deserialize(_serializedATN)
}
>>
```

```
SerializedATN(model) ::= <<
static let _serializedATN:[Int] = [
 <model.serialized: {s | <s>}; separator=",", wrap>
]
>>

/** Using a type to init value map, try to init a type; if not in table
* must be an object,
 default value is "null".
*/
initValue(typeName) ::= <<
<SwiftTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".swift"
```

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* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/codegen/Swift/Swift.stg
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*/

lexer grammar ActionSplitter;

```
options { filter=true; }

@header {
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
}

@members {
ActionSplitterListener delegate;

public ActionSplitter(CharStream input, ActionSplitterListener delegate) {
   this(input, new RecognizerSharedState());
   this.delegate = delegate;
}

/** force filtering
 (and return tokens). triggers all above actions. */
public List<Token> getActionTokens() {
   List<Token> chunks = new ArrayList<Token>();
   Token t = nextToken();
   while ( t.getType()!=Token.EOF ) {
       chunks.add(t);
       t = nextToken();
   }
   return chunks;
}

private boolean isIDStartChar(int c) {
 return c == '_' || Character.isLetter(c);
}
}

// ignore comments right away

COMMENT
   :   '/*' ( options {greedy=false;} : . )* '*/' {delegate.text($text);}
   ;

LINE_COMMENT
   : '//' ~('\n'|'\r')* '\r'? '\n' {delegate.text($text);}
   ;

SET_NONLOCAL_ATTR
 : '$' x=ID '::' y=ID WS? '=' expr=ATTR_VALUE_EXPR ';'
  {
  delegate.setNonLocalAttr($text, $x, $y, $expr);
```

```
  }
 ;

NONLOCAL_ATTR
 : '$' x=ID '::' y=ID {delegate.nonLocalAttr($text, $x, $y);}
 ;

QUALIFIED_ATTR
 : '$' x=ID '.' y=ID {input.LA(1)!='('}? {delegate.qualifiedAttr($text, $x, $y);}
 ;

SET_ATTR
 : '$' x=ID WS? '=' expr=ATTR_VALUE_EXPR ';'
  {
  delegate.setAttr($text, $x, $expr);
  }
 ;

ATTR
 : '$'
 x=ID {delegate.attr($text, $x);}
 ;

// Anything else is just random text
TEXT
@init {StringBuilder buf = new StringBuilder();}
@after {delegate.text(buf.toString());}
 : ( c=~('\\'| '$') {buf.append((char)$c);}
  | '\\$' {buf.append('$');}
  | '\\' c=~('$') {buf.append('\\').append((char)$c);}
  | {!isIDStartChar(input.LA(2))}? => '$' {buf.append('$');}
  )+
 ;

fragment
ID  : ('a'..'z'|'A'..'Z'|'_') ('a'..'z'|'A'..'Z'|'0'..'9'|'_')*
   ;

/** Don't allow an = as first char to prevent $x == 3; kind of stuff. */
fragment
ATTR_VALUE_EXPR
 : ~'=' (~';')*
 ;

fragment
WS : (' '|'\t'|'\n'|'\r')+
 ;
```

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 */
```

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*/

// File      : A3Lexer.g
// Author    : Jim Idle (jimi@temporal-wave.com)
// Copyright : Free BSD - See @header clause below
// Version   : First implemented as part of ANTLR 3.2 this is the self
//             hosting ANTLR 3 Lexer.
//
// Description
// -----------
// This is the definitive lexer grammar for parsing ANTLR V3.x.x grammars. All other
// grammars are
 derived from this grammar via source code control integration (perforce)
// or by the gdiff tool.
//
// This grammar and its associated grammars A3Parser.g and A3Walker.g exhibit the following
// traits, which are recommended for all production quality grammars:
//
// 1) They are separate grammars, not composite grammars;
// 2) They implement all supporting methods in a superclass (at least this is recommended
//    for language targets that support inheritance;
// 3) All errors are pushed as far down the parsing chain as possible, which means
```

```
//    that the lexer tries to defer error reporting to the parser, and the parser
//    tries to defer error reporting to a semantic phase consisting of a single
//    walk of the AST. The reason for this is that the error messages produced
//    from later phases of the parse will generally have better context and so
//    be more useful to the end user. Consider the message: "Syntax error at 'options'"
//    vs: "You cannot specify two options{}
 sections in a single grammar file".
// 4) The lexer is 'programmed' to catch common mistakes such as unterminated literals
//    and report them specifically and not just issue confusing lexer mismatch errors.
//

/** Read in an ANTLR grammar and build an AST.  Try not to do
*  any actions, just build the tree.
*
*  The phases are:
*
*  A3Lexer.g (this file)
*           A3Parser.g
*           A3Verify.g (derived from A3Walker.g)
*  assign.types.g
*  define.g
*  buildnfa.g
*  antlr.print.g (optional)
*  codegen.g
*
*  Terence Parr
*  University of San Francisco
*  2005
*  Jim Idle (this v3 grammar)
*  Temporal Wave LLC
*  2009
*/
lexer grammar ANTLRLexer;

// ============================================================================
// Note that while this grammar does not care about order of constructs
// that don't really matter, such as options before @header etc, it must first
// be parsed by the original v2 parser, before it replaces it. That parser
 does
// care about order of structures. Hence we are constrained by the v2 parser
// for at least the first bootstrap release that causes this parser to replace
// the v2 version.
// ============================================================================

// -------
// Options
//
// V3 option directives to tell the tool what we are asking of it for this
```

```
// grammar.
//
options {

 // Target language is Java, which is the default but being specific
 // here as this grammar is also meant as a good example grammar for
 // for users.
 //
 language      = Java;

 // The super class that this lexer should expect to inherit from, and
 // which contains any and all support routines for the lexer. This is
 // commented out in this baseline (definitive or normative grammar)
 // - see the ANTLR tool implementation for hints on how to use the super
 //   class
 //
 //superclass    = AbstractA3Lexer;
}

tokens { SEMPRED; TOKEN_REF; RULE_REF; LEXER_CHAR_SET; ARG_ACTION; }

// Include the copyright
 in this source and also the generated source
//
@lexer::header {
/*
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*/
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.runtime.misc.Interval;
}


@members {
 public static final int COMMENTS_CHANNEL = 2;

   public CommonTokenStream tokens; // track stream we push to; need for context info
   public boolean isLexerRule = false;

 public void grammarError(ErrorType etype, org.antlr.runtime.Token token, Object... args) { }

 /** scan backwards from current point in this.tokens list
  *  looking for the start of the rule or
 subrule.
  *  Return token or null if for some reason we can't find the start.
  */
 public Token getRuleOrSubruleStartToken() {
  if (tokens == null) return null;
  int i = tokens.index();
  int n = tokens.size();
  if (i >= n) i = n - 1; // seems index == n as we lex
  boolean withinOptionsBlock = false;
  while (i >= 0 && i < n) {
   int ttype = tokens.get(i).getType();
   if (withinOptionsBlock) {
    // Ignore rule options content
    if (ttype == OPTIONS) {
     withinOptionsBlock = false;
    }
   }
   else {
    if (ttype == RBRACE) {
     withinOptionsBlock = true;
    }
    else if (ttype == LPAREN || ttype == TOKEN_REF || ttype == RULE_REF) {
     return tokens.get(i);
    }
   }
   i--;
  }
```

```
  return null;
 }
}

// --------
// Comments
//
// ANTLR comments can be multi or single line and we don't care
// which particularly. However we also accept Javadoc style comments
// of the form: /** ... */ and we do take care to distinguish those
// from ordinary multi-line comments
//
 Note how we guide the lexical PATH because we want to issue a descriptive
// error message in case of a standalone '/' character, which makes no
// sense in ANTLR source code. We alo trap unterminated multi-line comments
//
fragment DOC_COMMENT : ;
COMMENT
@init {

 // Record the start line and offsets as if we need to report an
 // unterminated comment, then we want to show the start of the comment
 // we think is broken, not the end, where people will have to try and work
 // it out themselves.
 //
 int startLine = $line;
 int offset    = getCharPositionInLine();
}
   : // Eat the first character only, then see if we have a comment
     // or something silly.
     //
     '/'  // Comment introducer

     (
         // Single line comment, possibly with embedded src/line directives
         // in a similar style to the C pre-processor, allowing generated
         // code to refer the programmer back to the original source code
         // in case of error.
         //

       '/'
           (
               (' $ANTLR')=> ' $ANTLR' SRC
             | ~NLCHARS*
           )

       | // Multi-line comment, which may be a documentation comment
         // if it starts /** (note that we protect against accidentally
```

```
        // recognizing a comment /**/ as a documentation comment
        //
        '*' (
            { input.LA(2) != '/'}?=> '*' { $type = DOC_COMMENT; }
          | { true }?=>  // Required to cover all alts with predicates
           )

           // Should we support embedded multiline comments here?
           //
           (
              // Pick out end of multiline comment and exit the loop
              // if we find it.
              //
              {    !(input.LA(1) == '*' && input.LA(2) == '/') }?

                // Anything else other than the non-greedy match of
                // the comment close sequence
                //
                .

          )*
         (
             // Look for the comment terminator, but if it is accidentally
             // unterminated, then we will hit EOF, which will trigger the
             // epsilon alt and hence we can issue an error message relative
             // to the start of the unterminated multi-line comment
             //
             '*/'

           | // Unterminated comment!
             //
             {
               // ErrorManager.msg(Msg.UNTERMINATED_DOC_COMMENT, startLine, offset, $pos, startLine,
offset, $pos, (Object)null);
             }
          )

       | // There was nothing that made sense following the opening '/' and so
        // we issue an error regarding the malformed comment
        //
        {
          // TODO: Insert error message relative to comment start
          //
        }
     )
     {
       // We do not wish to pass the comments in to the parser. If you are
```

```
        // writing a formatter then you will want to preserve the comments off
        // channel, but could just skip and save token space if not.
        //
        $channel=COMMENTS_CHANNEL;
      }
  ;

ARG_OR_CHARSET
options {k=1;}
  :   {isLexerRule}?=> LEXER_CHAR_SET {$type=LEXER_CHAR_SET;}
  |   {!isLexerRule}?=> ARG_ACTION
      {
      $type=ARG_ACTION;
      // Set the token text to our gathered string minus outer [ ]
      String t = $text;
      t = t.substring(1,t.length()-1);
      setText(t);
      }
  ;

fragment
LEXER_CHAR_SET
 : '['
  ( '\\' ~('\r'|'\n')
  | ~('\r'|'\n'|'\\'|']')
  )*
  ']'
 ;

// --------------
// Argument specs
//
// Certain argument lists, such as those specifying call parameters
// to a rule invocation, or input parameters to a rule specification
// are contained within square brackets. In the lexer we consume them
// all at once and sort them out later in the grammar analysis.
//
fragment
ARG_ACTION
 : '['
        (

          ARG_ACTION

         | ('")=>ACTION_STRING_LITERAL

         | ('\')=>ACTION_CHAR_LITERAL
```

```
        | ~('['|']')
      )*

      ']'
 ;

// -------
// Actions
//
// Other than making sure to distinguish between { and } embedded
// within what we have assumed to be literals in the action code, the
// job of the lexer is merely to gather the code within the action
// (delimited by {}) and pass it to the parser as a single token.
// We know that this token will be asked for its text somewhere
// in the upcoming parse, so setting the text here to exclude
// the delimiting {} is no additional overhead.
//
ACTION
 : NESTED_ACTION ( '?' {$type = SEMPRED;} )?
 ;

// ----------------
// Action structure
//
// Many language targets use {} as block delimiters and so we
// must recursively match {} delimited blocks to balance the
// braces. Additionally, we must make some assumptions about
// literal string representation in the target language. We assume
// that they are delimited
 by ' or " and so consume these
// in their own alts so as not to inadvertently match {}.
// This rule calls itself on matching a {
//
fragment
NESTED_ACTION
@init {

 // Record the start line and offsets as if we need to report an
 // unterminated block, then we want to show the start of the comment
 // we think is broken, not the end, where people will have to try and work
 // it out themselves.
 //
 int startLine = getLine();
 int offset    = getCharPositionInLine();
}

   : // Action and other blocks start with opening {
     //
```

```
  '{'
    (
    // And now we can match one of a number of embedded
    // elements within the action until we find a
    // } that balances the opening {. If we do not find
    // the balanced } then we will hit EOF and can issue
    // an error message about the brace that we believe to
    // be mismatched. This won't be foolproof but we will
    // be able to at least report an error against the
    // opening brace that we feel is in error
and this will
    // guide the user to the correction as best we can.
    //



      // An embedded {} block
     //
     NESTED_ACTION

     | // What appears to be a literal
      //
      ACTION_CHAR_LITERAL

     | // We have assumed that the target language has C/Java
      // type comments.
      //
      COMMENT

     | // What appears to be a literal
      //
      ACTION_STRING_LITERAL

    | // What appears to be an escape sequence
     //
     ACTION_ESC

    | // Some other single character that is not
     // handled above
     //
     ~('\\'|'"'|'\"'|'/'|'{'|'}')

    )*

(
    // Correctly balanced closing brace
    //
    '}'
```

```
  | // Looks like have an imbalanced {} block, report
    // with respect to the opening brace.
    //
    {
        // TODO: Report imbalanced {}
        System.out.println("Block starting  at line " + startLine + " offset " + (offset+1) + " contains imbalanced {} or
is missing
 a }");
    }
 )
  ;


// Keywords
// --------
// Keywords may not be used as labels for rules or in any other context
// where they would be ambiguous with the keyword vs some other identifier
// OPTIONS, TOKENS, and CHANNELS must also consume the opening brace that captures
// their option block, as this is the easiest way to parse it separate
// to an ACTION block, despite it using the same {} delimiters.
//
OPTIONS      : 'options'  WSNLCHARS* '{'  ;
TOKENS_SPEC  : 'tokens'   WSNLCHARS* '{'  ;
CHANNELS     : 'channels' WSNLCHARS* '{'  ;

IMPORT       : 'import'               ;
FRAGMENT     : 'fragment'             ;
LEXER        : 'lexer'                ;
PARSER       : 'parser'               ;
GRAMMAR      : 'grammar'              ;
RETURNS      : 'returns'              ;
LOCALS       : 'locals'               ;
THROWS       : 'throws'               ;
CATCH        : 'catch'                ;
FINALLY      : 'finally'              ;
MODE         : 'mode'                 ;

// -----------
//
 Punctuation
//
// Character sequences used as separators, delimiters, operators, etc
//
COLON        : ':'
             {
             // scan backwards, looking for a RULE_REF or TOKEN_REF.
             // which would indicate the start of a rule definition.
             // If we see a LPAREN, then it's the start of the subrule.
```

```
            // this.tokens is the token string we are pushing into, so
            // just loop backwards looking for a rule definition. Then
            // we set isLexerRule.
            Token t = getRuleOrSubruleStartToken();
            if ( t!=null ) {
                if ( t.getType()==RULE_REF ) isLexerRule = false;
                else if ( t.getType()==TOKEN_REF ) isLexerRule = true;
                // else must be subrule; don't alter context
            }
            }
          ;
COLONCOLON   : '::'                ;
COMMA        : ','                 ;
SEMI         : ';'
    ;
LPAREN       : '('                 ;
RPAREN       : ')'                 ;
RARROW       : '->'                ;
LT           : '<'                 ;
GT           : '>'                 ;
ASSIGN       : '='                 ;
QUESTION     : '?'                 ;
STAR         : '*'                 ;
PLUS         : '+'                 ;
PLUS_ASSIGN  : '+='                ;
OR           : '|'                 ;
DOLLAR       : '$'                 ;
DOT       : '.'                    ; // can be WILDCARD or DOT in qid or imported rule ref
RANGE        : '..'                ;
AT           : '@'                 ;
POUND        : '#'                 ;
NOT          : '~'                 ;
RBRACE       : '}'                 ;

/** Allow unicode rule/token names */
ID   : a=NameStartChar NameChar*
   {
   if ( Grammar.isTokenName($a.text) ) $type = TOKEN_REF;
   else $type = RULE_REF;
   }
  ;

fragment
NameChar    :   NameStartChar

    |   '0'..'9'
        |   '_'
        |   '\u00B7'
```

```
        |   '\u0300'..'\u036F'
        |   '\u203F'..'\u2040'
        ;

fragment
NameStartChar
        :   'A'..'Z' | 'a'..'z'
        |   '\u00C0'..'\u00D6'
        |   '\u00D8'..'\u00F6'
        |   '\u00F8'..'\u02FF'
        |   '\u0370'..'\u037D'
        |   '\u037F'..'\u1FFF'
        |   '\u200C'..'\u200D'
        |   '\u2070'..'\u218F'
        |   '\u2C00'..'\u2FEF'
        |   '\u3001'..'\uD7FF'
        |   '\uF900'..'\uFDCF'
        |   '\uFDF0'..'\uFEFE'
        |   '\uFF00'..'\uFFFD'
        ; // ignores | ['\u10000-'\uEFFFF] ;

// ----------------------------
// Literals embedded in actions
//
// Note that we have made the assumption that the language used within
// actions uses the fairly standard '' and ' delimiters for literals and
// that within these literals, characters are escaped using the \ character.
// There are some languages which do
 not conform to this in all cases, such
// as by using /string/ and so on. We will have to deal with such cases if
// if they come up in targets.
//

// Within actions, or other structures that are not part of the ANTLR
// syntax, we may encounter literal characters. Within these, we do
// not want to inadvertently match things like '}' and so we eat them
// specifically. While this rule is called CHAR it allows for the fact that
// some languages may use/allow ' as the string delimiter.
//
fragment
ACTION_CHAR_LITERAL
 : '\'' (('\\')=>ACTION_ESC | ~'\'' )* '\'' 
 ;

// Within actions, or other structures that are not part of the ANTLR
// syntax, we may encounter literal strings. Within these, we do
// not want to inadvertently match things like '}' and so we eat them
// specifically.
```

```
//
fragment
ACTION_STRING_LITERAL
 : '"' (('\\')=>ACTION_ESC | ~'")* '"'
 ;

// Within literal strings and characters that are not part of the ANTLR
// syntax, we must allow for escaped character sequences
 so that we do not
// inadvertently recognize the end of a string or character when the terminating
// delimiter has been escaped.
//
fragment
ACTION_ESC
 : '\\' .
 ;

// -------
// Integer
//
// Obviously (I hope) match an arbitrary long sequence of digits.
//
INT : ('0'..'9')+
   ;

// ------------
// Source spec
//
// A fragment rule for picking up information about an originating
// file from which the grammar we are parsing has been generated. This allows
// ANTLR to report errors against the originating file and not the generated
// file.
//
fragment
SRC : 'src' WSCHARS+ file=ACTION_STRING_LITERAL WSCHARS+ line=INT
     {
       // TODO: Add target specific code to change the source file name and current line number
       //
     }
   ;

// ---------------
// Literal string
//
// ANTLR makes no distinction between a single character literal and a
// multi-character string. All literals are single quote delimited and
// may contain unicode escape sequences of the form \uxxxx
```

```
 or \u{xxxxxx},
// where x is a valid hexadecimal number.
STRING_LITERAL
  :  '\'' ( ( ESC_SEQ | ~('\\'|'\''|'\r'|'\n') ) )*
     (    '\''
     |    // Unterminated string literal
          {
          Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
          t.setLine(state.tokenStartLine);
          t.setText(state.text);
          t.setCharPositionInLine(state.tokenStartCharPositionInLine);
          grammarError(ErrorType.UNTERMINATED_STRING_LITERAL, t);
          }
     )
  ;

// A valid hex digit specification
//
fragment
HEX_DIGIT : ('0'..'9'|'a'..'f'|'A'..'F') ;

// Any kind of escaped character that we can embed within ANTLR
// literal strings.
//
fragment
ESC_SEQ
  : '\\'
     (
          // The standard escaped character set such as tab, newline, etc...
     'b'|'t'|'n'|'f'|'r'|'\''|'\\'

       | // A Java style Unicode escape sequence
         UNICODE_ESC

          | // A
 Swift/Hack style Unicode escape sequence
           UNICODE_EXTENDED_ESC

       | // An illegal escape sequence
         ~('b'|'t'|'n'|'f'|'r'|'\''|'\\'|'u') // \x for any invalid x (make sure to match char here)
         {
             Token t = new CommonToken(input, state.type, state.channel, getCharIndex()-2, getCharIndex()-1);
             t.setText(t.getText());
             t.setLine(input.getLine());
             t.setCharPositionInLine(input.getCharPositionInLine()-2);
             grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t, input.substring(getCharIndex()-
2,getCharIndex()-1));
         }
```

```
      )
  ;

fragment
UNICODE_ESC
@init {

 // Flag to tell us whether we have a valid number of
 // hex digits in the escape sequence
 //
 int hCount = 0;
}
  :   'u' // Leadin for unicode escape sequence

      // We now require 4 hex digits. Note though
      // that we accept any number of characters
      // and issue an error if we do not get
 4. We cannot
      // use an infinite count such as + because this
      // might consume too many, so we lay out the lexical
      // options and issue an error at the invalid paths.
      //
   (
      (
        HEX_DIGIT  { hCount++; }
          (
              HEX_DIGIT  { hCount++; }
            (
                HEX_DIGIT  { hCount++; }
                (
                    // Four valid hex digits, we are good
                    //
                    HEX_DIGIT { hCount++; }

                  | // Three valid digits
                )

              | // Two valid digits
            )

          | // One valid digit
        )
          )
        | // No valid hex digits at all
   )

   // Now check the digit count and issue an error if we need to
   //
```

```
    {
     if (hCount < 4) {
    Interval badRange = Interval.of(getCharIndex()-2-hCount, getCharIndex());
    String lastChar = input.substring(badRange.b,
 badRange.b);
    if ( lastChar.codePointAt(0)=='\" ) {
     badRange.b--;
    }
    String bad = input.substring(badRange.a, badRange.b);
    Token t = new CommonToken(input, state.type, state.channel, badRange.a, badRange.b);
    t.setLine(input.getLine());
    t.setCharPositionInLine(input.getCharPositionInLine()-hCount-2);
    grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t, bad);
     }
    }
   ;

fragment
UNICODE_EXTENDED_ESC
   :   'u{' // Leadin for unicode extended escape sequence

       HEX_DIGIT+ // One or more hexadecimal digits

       '}' // Leadout for unicode extended escape sequence

       // Now check the digit count and issue an error if we need to
       {
           int numDigits = getCharIndex()-state.tokenStartCharIndex-6;
           if (numDigits > 6) {
               Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-
1);
               t.setText(t.getText());
               t.setLine(input.getLine());
                t.setCharPositionInLine(input.getCharPositionInLine()-numDigits);
               grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t,
input.substring(state.tokenStartCharIndex,getCharIndex()-1));
   }
       }
   ;

// ----------
// Whitespace
//
// Characters and character constructs that are of no import
// to the parser and are used to make the grammar easier to read
// for humans.
//
WS
```

```
  : (
    ' '
     | '\t'
     | '\r'
     | '\n'
     | '\f'
   )+
   {$channel=HIDDEN;}
  ;

// A fragment rule for use in recognizing end of line in
// rules like COMMENT.
//
fragment
NLCHARS
  : '\n' | '\r'
  ;

// A fragment rule for recognizing traditional whitespace
// characters within lexer rules.
//
fragment
WSCHARS
  : ' ' | '\t' | '\f'
  ;

// A fragment rule for recognizing both traditional whitespace and
// end of line markers, when we don't care to distinguish but don't
// want any action code going on.
//
fragment
WSNLCHARS
   : ' ' | '\t' | '\f' | '\n' | '\r'
  ;

// This rule allows ANTLR 4 to parse grammars using the UTF-8 encoding with a
// byte order mark. Since this Unicode character doesn't appear as a token
// anywhere else in the grammar, we can simply skip all instances of it without
// problem. This rule will not break usage of \uFEFF inside a LEXER_CHAR_SET or
// STRING_LITERAL.
UnicodeBOM
  :   '\uFEFF' {skip();}
  ;

// -----------------
// Illegal Character
//
// This is an illegal character trap which is always the last rule in the
```

```
// lexer specification. It matches a single character of any value and being
// the last rule in the file will match when no other rule knows what to do
// about the character. It is reported as an error but is not passed on to the
// parser. This means that the parser to deal with the grammar file anyway
// but we will not try to analyse or code generate from a file with lexical
// errors.
//
ERRCHAR
  : .
    {
      Token t = new CommonToken(input,
 state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
      t.setLine(state.tokenStartLine);
      t.setText(state.text);
      t.setCharPositionInLine(state.tokenStartCharPositionInLine);
      String msg = getTokenErrorDisplay(t) + " came as a complete surprise to me";
      grammarError(ErrorType.SYNTAX_ERROR, t, msg);
      state.syntaxErrors++;
      skip();
    }
  ;
```

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* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/ANTLRLexer.g
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*/

/** How to generate rules derived from left-recursive rules.
*  These rely on recRuleAltPredicate(),
*  recRuleArg(), recRuleSetResultAction(), recRuleSetReturnAction()
*  templates in main language.stg
*/
group LeftRecursiveRules;

recRule(ruleName, argName, primaryAlts, opAlts, setResultAction,
      userRetvals, leftRecursiveRuleRefLabels) ::=
<<
<ruleName><if(userRetvals)>
 returns [<userRetvals>]<endif>
  :   ( {} <primaryAlts:{alt | <alt.altText> }; separator="\n        | ">
      )
      (
        <opAlts; separator="\n        | ">
      )*
  ;
>>

recRuleAlt(alt, precOption, opPrec, pred) ::= <<
{<pred>}?\<<precOption>=<opPrec>\> <alt.altText>
>>
```

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/** templates used to generate make-compatible dependencies */

/** Generate "f : x, y, z" dependencies for input
*  dependencies and generated files. in and out
*  are File objects.  For example, you can say
*  <f.canonicalPath>
*/
dependencies(grammarFileName,in,out) ::= <<
<if(in)><grammarFileName>: <in; separator=", "><endif>
<out:{f | <f> : <grammarFileName>};
 separator="\n">
>>
```

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*/

tree grammar ATNBuilder;
options {
 language     = Java;
 tokenVocab   = ANTLRParser;
 ASTLabelType = GrammarAST;
// filter       = true;
}

// Include the copyright in this source and also the generated source
@header {
/*
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*/
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import org.antlr.v4.automata.ATNFactory;
}

@members {
  ATNFactory factory;
  public ATNBuilder(TreeNodeStream input, ATNFactory factory) {
   this(input);
   this.factory = factory;
  }
}

dummy : block[null] ; // avoid error about no start rule

ruleBlock[GrammarAST ebnfRoot] returns [ATNFactory.Handle p]
@init {
  List<ATNFactory.Handle> alts = new ArrayList<ATNFactory.Handle>();
  int alt = 1;
  factory.setCurrentOuterAlt(alt);
}
  : ^(BLOCK
        (^(OPTIONS .*))?
        (   a=alternative
            {alts.add($a.p); factory.setCurrentOuterAlt(++alt);}
        )+
     )
    {$p = factory.block((BlockAST)$BLOCK, ebnfRoot, alts);}
  ;

block[GrammarAST ebnfRoot] returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> alts = new ArrayList<ATNFactory.Handle>();}
  : ^(BLOCK (^(OPTIONS .*))? (a=alternative {alts.add($a.p);})+)
   {$p = factory.block((BlockAST)$BLOCK, ebnfRoot, alts);}
  ;

alternative returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> els = new ArrayList<ATNFactory.Handle>();}
  : ^(LEXER_ALT_ACTION a=alternative lexerCommands)
     {$p = factory.lexerAltCommands($a.p,$lexerCommands.p);}
  | ^(ALT elementOptions? EPSILON)       {$p = factory.epsilon($EPSILON);}
  |   ^(ALT elementOptions? (e=element {els.add($e.p);})+) {$p = factory.alt(els);}
  ;

lexerCommands returns [ATNFactory.Handle p]
```

```
@init {List<ATNFactory.Handle> cmds = new ArrayList<ATNFactory.Handle>();}
  :   (c=lexerCommand {if ($c.cmd != null) cmds.add($c.cmd);})+
      {
      $p = factory.alt(cmds);
      }
  ;

lexerCommand returns
 [ATNFactory.Handle cmd]
 : ^(LEXER_ACTION_CALL ID lexerCommandExpr)
      {$cmd = factory.lexerCallCommand($ID, $lexerCommandExpr.start);}
 | ID
      {$cmd = factory.lexerCommand($ID);}
 ;

lexerCommandExpr
 : ID
 | INT
 ;

element returns [ATNFactory.Handle p]
 : labeledElement    {$p = $labeledElement.p;}
 | atom      {$p = $atom.p;}
 | subrule      {$p = $subrule.p;}
 |   ACTION      {$p = factory.action((ActionAST)$ACTION);}
 |   SEMPRED      {$p = factory.sempred((PredAST)$SEMPRED);}
 |   ^(ACTION .)     {$p = factory.action((ActionAST)$ACTION);}
 |   ^(SEMPRED .)    {$p = factory.sempred((PredAST)$SEMPRED);}
  | ^(NOT b=blockSet[true])  {$p = $b.p;}
  | LEXER_CHAR_SET    {$p = factory.charSetLiteral($start);}
 ;

astOperand returns [ATNFactory.Handle p]
 : atom      {$p = $atom.p;}
 | ^(NOT blockSet[true])  {$p = $blockSet.p;}
 ;

labeledElement returns [ATNFactory.Handle p]
 : ^(ASSIGN ID element)     {$p = factory.label($element.p);}
 | ^(PLUS_ASSIGN ID element)
  {$p = factory.listLabel($element.p);}
 ;

subrule returns [ATNFactory.Handle p]
 : ^(OPTIONAL block[$start])   {$p = $block.p;}
 | ^(CLOSURE block[$start])   {$p = $block.p;}
 | ^(POSITIVE_CLOSURE block[$start]) {$p = $block.p;}
 |  block[null]       {$p = $block.p;}
```

```
  ;

blockSet[boolean invert] returns [ATNFactory.Handle p]
@init {List<GrammarAST> alts = new ArrayList<GrammarAST>();}
 : ^(SET (setElement {alts.add($setElement.start);})+) {$p = factory.set($start, alts, $invert);}
 ;

/** Don't combine with atom otherwise it will build spurious ATN nodes */
setElement
 : ^(STRING_LITERAL .)
 | ^(TOKEN_REF .)
 | STRING_LITERAL
 | TOKEN_REF
 | ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
  |   LEXER_CHAR_SET
 ;

atom returns [ATNFactory.Handle p]
 : range     {$p = $range.p;}
 | ^(DOT ID terminal)  {$p = $terminal.p;}
 | ^(DOT ID ruleref)  {$p = $ruleref.p;}
  | ^(WILDCARD .)   {$p = factory.wildcard($start);}
  | WILDCARD    {$p = factory.wildcard($start);}
  | blockSet[false]   {$p
 = $blockSet.p;}
  |   terminal    {$p = $terminal.p;}
  |   ruleref     {$p = $ruleref.p;}
  ;

ruleref returns [ATNFactory.Handle p]
  : ^(RULE_REF ARG_ACTION? ^(ELEMENT_OPTIONS .*))  {$p = factory.ruleRef($RULE_REF);}
  | ^(RULE_REF ARG_ACTION?)        {$p = factory.ruleRef($RULE_REF);}
  | RULE_REF           {$p = factory.ruleRef($RULE_REF);}
  ;

range returns [ATNFactory.Handle p]
  : ^(RANGE a=STRING_LITERAL b=STRING_LITERAL) {$p = factory.range($a,$b);}
  ;

terminal returns [ATNFactory.Handle p]
  :  ^(STRING_LITERAL .)   {$p = factory.stringLiteral((TerminalAST)$start);}
  | STRING_LITERAL    {$p = factory.stringLiteral((TerminalAST)$start);}
  | ^(TOKEN_REF ARG_ACTION .) {$p = factory.tokenRef((TerminalAST)$start);}
  | ^(TOKEN_REF .)    {$p = factory.tokenRef((TerminalAST)$start);}
  | TOKEN_REF     {$p = factory.tokenRef((TerminalAST)$start);}
  ;

elementOptions
```

```
 : ^(ELEMENT_OPTIONS elementOption*)
 ;

elementOption
 : ID
 | ^(ASSIGN ID
 ID)
 | ^(ASSIGN ID STRING_LITERAL)
 | ^(ASSIGN ID ACTION)
 | ^(ASSIGN ID INT)
 ;
```

Found in path(s):
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/ATNBuilder.g
No license file was found, but licenses were detected in source scan.


```
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*/
```

```
/** The definitive ANTLR v3 tree grammar to walk/visit ANTLR v4 grammars.
*  Parses trees created by ANTLRParser.g.
*
*  Rather than have multiple tree grammars, one for each visit, I'm
*  creating this generic visitor that knows about context. All of the
*  boilerplate pattern recognition is done here. Then, subclasses can
*  override the methods they care about.
 This prevents a lot of the same
*  context tracking stuff like "set current alternative for current
*  rule node" that is repeated in lots of tree filters.
*/
tree grammar GrammarTreeVisitor;
options {
 language      = Java;
 tokenVocab    = ANTLRParser;
 ASTLabelType  = GrammarAST;
}

// Include the copyright in this source and also the generated source
@header {
/*
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```

```
*/
package org.antlr.v4.parse;
import org.antlr.v4.Tool;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Method;
}

@members
 {
public String grammarName;
public GrammarAST currentRuleAST;
public String currentModeName = LexerGrammar.DEFAULT_MODE_NAME;
public String currentRuleName;
public GrammarAST currentOuterAltRoot;
public int currentOuterAltNumber = 1; // 1..n
public int rewriteEBNFLevel = 0;

public GrammarTreeVisitor() { this(null); }

// Should be abstract but can't make gen'd parser abstract;
// subclasses should implement else everything goes to stderr!
public ErrorManager getErrorManager() { return null; }

public void visitGrammar(GrammarAST t) { visit(t, "grammarSpec"); }
public void visit(GrammarAST t, String ruleName) {
 CommonTreeNodeStream nodes = new CommonTreeNodeStream(new GrammarASTAdaptor(), t);
 setTreeNodeStream(nodes);
 try {
  Method m = getClass().getMethod(ruleName);
  m.invoke(this);
 }
 catch (Throwable e) {
  ErrorManager errMgr = getErrorManager();
  if ( e instanceof InvocationTargetException ) {
   e = e.getCause();
  }
  //e.printStackTrace(System.err);
  if
 ( errMgr==null ) {
   System.err.println("can't find rule "+ruleName+
         " or tree structure error: "+t.toStringTree()
         );
   e.printStackTrace(System.err);
  }
  else errMgr.toolError(ErrorType.INTERNAL_ERROR, e);
 }
```

```
}

public void discoverGrammar(GrammarRootAST root, GrammarAST ID) { }
public void finishPrequels(GrammarAST firstPrequel) { }
public void finishGrammar(GrammarRootAST root, GrammarAST ID) { }

public void grammarOption(GrammarAST ID, GrammarAST valueAST) { }
public void ruleOption(GrammarAST ID, GrammarAST valueAST) { }
public void blockOption(GrammarAST ID, GrammarAST valueAST) { }
public void defineToken(GrammarAST ID) { }
public void defineChannel(GrammarAST ID) { }
public void globalNamedAction(GrammarAST scope, GrammarAST ID, ActionAST action) { }
public void importGrammar(GrammarAST label, GrammarAST ID) { }

public void modeDef(GrammarAST m, GrammarAST ID) { }

public void discoverRules(GrammarAST rules) { }
public void finishRules(GrammarAST
 rule) { }
public void discoverRule(RuleAST rule, GrammarAST ID, List<GrammarAST> modifiers,
      ActionAST arg, ActionAST returns, GrammarAST thrws,
      GrammarAST options, ActionAST locals,
      List<GrammarAST> actions,
      GrammarAST block) { }
public void finishRule(RuleAST rule, GrammarAST ID, GrammarAST block) { }
public void discoverLexerRule(RuleAST rule, GrammarAST ID, List<GrammarAST> modifiers, GrammarAST
options,
                        GrammarAST block) { }
public void finishLexerRule(RuleAST rule, GrammarAST ID, GrammarAST block) { }
public void ruleCatch(GrammarAST arg, ActionAST action) { }
public void finallyAction(ActionAST action) { }
public void discoverOuterAlt(AltAST alt) { }
public void finishOuterAlt(AltAST alt) { }
public void discoverAlt(AltAST alt) { }
public void finishAlt(AltAST alt) { }

public void ruleRef(GrammarAST ref, ActionAST arg) { }
public void tokenRef(TerminalAST ref) { }
public void elementOption(GrammarASTWithOptions t,
 GrammarAST ID, GrammarAST valueAST) { }
public void stringRef(TerminalAST ref) { }
public void wildcardRef(GrammarAST ref) { }
public void actionInAlt(ActionAST action) { }
public void sempredInAlt(PredAST pred) { }
public void label(GrammarAST op, GrammarAST ID, GrammarAST element) { }
public void lexerCallCommand(int outerAltNumber, GrammarAST ID, GrammarAST arg) { }
public void lexerCommand(int outerAltNumber, GrammarAST ID) { }
```

```
protected void enterGrammarSpec(GrammarAST tree) { }
protected void exitGrammarSpec(GrammarAST tree) { }

protected void enterPrequelConstructs(GrammarAST tree) { }
protected void exitPrequelConstructs(GrammarAST tree) { }

protected void enterPrequelConstruct(GrammarAST tree) { }
protected void exitPrequelConstruct(GrammarAST tree) { }

protected void enterOptionsSpec(GrammarAST tree) { }
protected void exitOptionsSpec(GrammarAST tree) { }

protected void enterOption(GrammarAST tree) { }
protected void exitOption(GrammarAST tree) { }

protected void enterOptionValue(GrammarAST
 tree) { }
protected void exitOptionValue(GrammarAST tree) { }

protected void enterDelegateGrammars(GrammarAST tree) { }
protected void exitDelegateGrammars(GrammarAST tree) { }

protected void enterDelegateGrammar(GrammarAST tree) { }
protected void exitDelegateGrammar(GrammarAST tree) { }

protected void enterTokensSpec(GrammarAST tree) { }
protected void exitTokensSpec(GrammarAST tree) { }

protected void enterTokenSpec(GrammarAST tree) { }
protected void exitTokenSpec(GrammarAST tree) { }

protected void enterChannelsSpec(GrammarAST tree) { }
protected void exitChannelsSpec(GrammarAST tree) { }

protected void enterChannelSpec(GrammarAST tree) { }
protected void exitChannelSpec(GrammarAST tree) { }

protected void enterAction(GrammarAST tree) { }
protected void exitAction(GrammarAST tree) { }

protected void enterRules(GrammarAST tree) { }
protected void exitRules(GrammarAST tree) { }

protected void enterMode(GrammarAST tree) { }
protected void exitMode(GrammarAST
 tree) { }

protected void enterLexerRule(GrammarAST tree) { }
```

```
protected void exitLexerRule(GrammarAST tree) { }

protected void enterRule(GrammarAST tree) { }
protected void exitRule(GrammarAST tree) { }

protected void enterExceptionGroup(GrammarAST tree) { }
protected void exitExceptionGroup(GrammarAST tree) { }

protected void enterExceptionHandler(GrammarAST tree) { }
protected void exitExceptionHandler(GrammarAST tree) { }

protected void enterFinallyClause(GrammarAST tree) { }
protected void exitFinallyClause(GrammarAST tree) { }

protected void enterLocals(GrammarAST tree) { }
protected void exitLocals(GrammarAST tree) { }

protected void enterRuleReturns(GrammarAST tree) { }
protected void exitRuleReturns(GrammarAST tree) { }

protected void enterThrowsSpec(GrammarAST tree) { }
protected void exitThrowsSpec(GrammarAST tree) { }

protected void enterRuleAction(GrammarAST tree) { }
protected void exitRuleAction(GrammarAST tree) { }

protected void enterRuleModifier(GrammarAST
 tree) { }
protected void exitRuleModifier(GrammarAST tree) { }

protected void enterLexerRuleBlock(GrammarAST tree) { }
protected void exitLexerRuleBlock(GrammarAST tree) { }

protected void enterRuleBlock(GrammarAST tree) { }
protected void exitRuleBlock(GrammarAST tree) { }

protected void enterLexerOuterAlternative(AltAST tree) { }
protected void exitLexerOuterAlternative(AltAST tree) { }

protected void enterOuterAlternative(AltAST tree) { }
protected void exitOuterAlternative(AltAST tree) { }

protected void enterLexerAlternative(GrammarAST tree) { }
protected void exitLexerAlternative(GrammarAST tree) { }

protected void enterLexerElements(GrammarAST tree) { }
protected void exitLexerElements(GrammarAST tree) { }
```

```
protected void enterLexerElement(GrammarAST tree) { }
protected void exitLexerElement(GrammarAST tree) { }

protected void enterLexerBlock(GrammarAST tree) { }
protected void exitLexerBlock(GrammarAST tree) { }

protected void enterLexerAtom(GrammarAST tree) { }
protected
 void exitLexerAtom(GrammarAST tree) { }

protected void enterActionElement(GrammarAST tree) { }
protected void exitActionElement(GrammarAST tree) { }

protected void enterAlternative(AltAST tree) { }
protected void exitAlternative(AltAST tree) { }

protected void enterLexerCommand(GrammarAST tree) { }
protected void exitLexerCommand(GrammarAST tree) { }

protected void enterLexerCommandExpr(GrammarAST tree) { }
protected void exitLexerCommandExpr(GrammarAST tree) { }

protected void enterElement(GrammarAST tree) { }
protected void exitElement(GrammarAST tree) { }

protected void enterAstOperand(GrammarAST tree) { }
protected void exitAstOperand(GrammarAST tree) { }

protected void enterLabeledElement(GrammarAST tree) { }
protected void exitLabeledElement(GrammarAST tree) { }

protected void enterSubrule(GrammarAST tree) { }
protected void exitSubrule(GrammarAST tree) { }

protected void enterLexerSubrule(GrammarAST tree) { }
protected void exitLexerSubrule(GrammarAST tree) { }

protected
 void enterBlockSuffix(GrammarAST tree) { }
protected void exitBlockSuffix(GrammarAST tree) { }

protected void enterEbnfSuffix(GrammarAST tree) { }
protected void exitEbnfSuffix(GrammarAST tree) { }

protected void enterAtom(GrammarAST tree) { }
protected void exitAtom(GrammarAST tree) { }

protected void enterBlockSet(GrammarAST tree) { }
```

```
protected void exitBlockSet(GrammarAST tree) { }

protected void enterSetElement(GrammarAST tree) { }
protected void exitSetElement(GrammarAST tree) { }

protected void enterBlock(GrammarAST tree) { }
protected void exitBlock(GrammarAST tree) { }

protected void enterRuleref(GrammarAST tree) { }
protected void exitRuleref(GrammarAST tree) { }

protected void enterRange(GrammarAST tree) { }
protected void exitRange(GrammarAST tree) { }

protected void enterTerminal(GrammarAST tree) { }
protected void exitTerminal(GrammarAST tree) { }

protected void enterElementOptions(GrammarAST tree) { }
protected void exitElementOptions(GrammarAST tree) {
 }

protected void enterElementOption(GrammarAST tree) { }
protected void exitElementOption(GrammarAST tree) { }

 @Override
 public void traceIn(String ruleName, int ruleIndex)  {
  System.err.println("enter "+ruleName+": "+input.LT(1));
 }

 @Override
 public void traceOut(String ruleName, int ruleIndex)  {
  System.err.println("exit "+ruleName+": "+input.LT(1));
 }
}

grammarSpec
@init {
 enterGrammarSpec($start);
}
@after {
 exitGrammarSpec($start);
}
   :   ^( GRAMMAR ID {grammarName=$ID.text;}
     {discoverGrammar((GrammarRootAST)$GRAMMAR, $ID);}
      prequelConstructs
     {finishPrequels($prequelConstructs.firstOne);}
      rules mode*
     {finishGrammar((GrammarRootAST)$GRAMMAR, $ID);}
```

```
   )
 ;

prequelConstructs returns [GrammarAST firstOne=null]
@init {
 enterPrequelConstructs($start);
}
@after {
 exitPrequelConstructs($start);
}
 : {$firstOne=$start;} prequelConstruct+
 |
 ;

prequelConstruct
@init {
 enterPrequelConstructs($start);
}
@after {
 exitPrequelConstructs($start);
}
 :
   optionsSpec
   |   delegateGrammars
   |   tokensSpec
   |   channelsSpec
   |   action
   ;

optionsSpec
@init {
 enterOptionsSpec($start);
}
@after {
 exitOptionsSpec($start);
}
 : ^(OPTIONS option*)
   ;

option
@init {
 enterOption($start);
 boolean rule = inContext("RULE ...");
 boolean block = inContext("BLOCK ...");
}
@after {
 exitOption($start);
}
```

```
  :   ^(a=ASSIGN ID v=optionValue)
    {
    if ( block ) blockOption($ID, $v.start); // most specific first
    else if ( rule ) ruleOption($ID, $v.start);
    else grammarOption($ID, $v.start);
    }
  ;

optionValue returns [String v]
@init {
 enterOptionValue($start);
 $v = $start.token.getText();
}
@after {
 exitOptionValue($start);
}
  :   ID
  |   STRING_LITERAL
  |   INT
  ;

delegateGrammars
@init {
 enterDelegateGrammars($start);
}
@after {
 exitDelegateGrammars($start);
}
 :   ^(IMPORT delegateGrammar+)
 ;

delegateGrammar
@init {
 enterDelegateGrammar($start);
}
@after {
 exitDelegateGrammar($start);
}
    :   ^(ASSIGN label=ID id=ID) {importGrammar($label, $id);}
  |   id=ID      {importGrammar(null, $id);}
  ;

tokensSpec
@init {
 enterTokensSpec($start);
}
@after {
 exitTokensSpec($start);
```

```
}
 :   ^(TOKENS_SPEC tokenSpec+)
 ;

tokenSpec
@init {
 enterTokenSpec($start);
}
@after {
 exitTokenSpec($start);
}
 : ID     {defineToken($ID);}
 ;

channelsSpec
@init {
 enterChannelsSpec($start);
}
@after {
 exitChannelsSpec($start);
}
 :   ^(CHANNELS channelSpec+)
 ;

channelSpec
@init {
 enterChannelSpec($start);
}
@after {
 exitChannelSpec($start);
}
 : ID     {defineChannel($ID);}
 ;

action
@init {
 enterAction($start);
}
@after {
 exitAction($start);
}
 : ^(AT sc=ID? name=ID ACTION) {globalNamedAction($sc, $name, (ActionAST)$ACTION);}
 ;

rules
@init {
 enterRules($start);
}
```

```
@after {
 exitRules($start);
}
   : ^(RULES {discoverRules($RULES);} (rule|lexerRule)* {finishRules($RULES);})
   ;

mode
@init {
 enterMode($start);
}
@after {
 exitMode($start);
}
 : ^(
 MODE ID {currentModeName=$ID.text; modeDef($MODE, $ID);} lexerRule* )
 ;

lexerRule
@init {
 enterLexerRule($start);
 List<GrammarAST> mods = new ArrayList<GrammarAST>();
 currentOuterAltNumber=0;
}
@after {
 exitLexerRule($start);
}
 : ^( RULE TOKEN_REF
   {currentRuleName=$TOKEN_REF.text; currentRuleAST=$RULE;}
   (^(RULEMODIFIERS m=FRAGMENT {mods.add($m);}))?
   opts=optionsSpec*
       {discoverLexerRule((RuleAST)$RULE, $TOKEN_REF, mods, $opts.start, (GrammarAST)input.LT(1));}
       lexerRuleBlock
       {
       finishLexerRule((RuleAST)$RULE, $TOKEN_REF, $lexerRuleBlock.start);
       currentRuleName=null; currentRuleAST=null;
       }
       )
 ;

rule
@init {
 enterRule($start);
 List<GrammarAST> mods = new ArrayList<GrammarAST>();
 List<GrammarAST> actions = new ArrayList<GrammarAST>(); // track roots
 currentOuterAltNumber=0;
}
@after {
 exitRule($start);
```

```
}
 :   ^( RULE RULE_REF {currentRuleName=$RULE_REF.text; currentRuleAST=$RULE;}
   (^(RULEMODIFIERS (m=ruleModifier{mods.add($m.start);})+))?
   ARG_ACTION?
        ret=ruleReturns?
       thr=throwsSpec?
       loc=locals?
       ( opts=optionsSpec
      |   a=ruleAction {actions.add($a.start);}
      )*
       {discoverRule((RuleAST)$RULE, $RULE_REF, mods, (ActionAST)$ARG_ACTION,
           $ret.start!=null?(ActionAST)$ret.start.getChild(0):null,
           $thr.start, $opts.start,
           $loc.start!=null?(ActionAST)$loc.start.getChild(0):null,
           actions, (GrammarAST)input.LT(1));}
       ruleBlock exceptionGroup
       {finishRule((RuleAST)$RULE, $RULE_REF, $ruleBlock.start); currentRuleName=null; currentRuleAST=null;}
       )
   ;

exceptionGroup
@init {
 enterExceptionGroup($start);
}
@after {
 exitExceptionGroup($start);
}
   : exceptionHandler* finallyClause?
   ;

exceptionHandler
@init {
 enterExceptionHandler($start);
}
@after {
 exitExceptionHandler($start);
}
 : ^(CATCH ARG_ACTION ACTION) {ruleCatch($ARG_ACTION, (ActionAST)$ACTION);}
 ;

finallyClause
@init
 {
 enterFinallyClause($start);
}
@after {
 exitFinallyClause($start);
}
```

```
 : ^(FINALLY ACTION)    {finallyAction((ActionAST)$ACTION);}
 ;

locals
@init {
 enterLocals($start);
}
@after {
 exitLocals($start);
}
 : ^(LOCALS ARG_ACTION)
 ;

ruleReturns
@init {
 enterRuleReturns($start);
}
@after {
 exitRuleReturns($start);
}
 : ^(RETURNS ARG_ACTION)
 ;

throwsSpec
@init {
 enterThrowsSpec($start);
}
@after {
 exitThrowsSpec($start);
}
   : ^(THROWS ID+)
   ;

ruleAction
@init {
 enterRuleAction($start);
}
@after {
 exitRuleAction($start);
}
 : ^(AT ID ACTION)
 ;

ruleModifier
@init {
 enterRuleModifier($start);
}
@after {
```

```
 exitRuleModifier($start);
}
   : PUBLIC
   | PRIVATE
   | PROTECTED
   | FRAGMENT
   ;

lexerRuleBlock
@init {
 enterLexerRuleBlock($start);
}
@after {
 exitLexerRuleBlock($start);
}
   : ^( BLOCK
     ( {
      currentOuterAltRoot = (GrammarAST)input.LT(1);
    currentOuterAltNumber++;
    }
      lexerOuterAlternative
     )+
    )
   ;

ruleBlock
@init
 {
 enterRuleBlock($start);
}
@after {
 exitRuleBlock($start);
}
   : ^( BLOCK
     ( {
      currentOuterAltRoot = (GrammarAST)input.LT(1);
    currentOuterAltNumber++;
    }
      outerAlternative
     )+
    )
   ;

lexerOuterAlternative
@init {
 enterLexerOuterAlternative((AltAST)$start);
 discoverOuterAlt((AltAST)$start);
}
```

```
@after {
 finishOuterAlt((AltAST)$start);
 exitLexerOuterAlternative((AltAST)$start);
}
 : lexerAlternative
 ;


outerAlternative
@init {
 enterOuterAlternative((AltAST)$start);
 discoverOuterAlt((AltAST)$start);
}
@after {
 finishOuterAlt((AltAST)$start);
 exitOuterAlternative((AltAST)$start);
}
 : alternative
 ;

lexerAlternative
@init {
 enterLexerAlternative($start);
}
@after {
 exitLexerAlternative($start);
}
 : ^(LEXER_ALT_ACTION lexerElements lexerCommand+)
   |   lexerElements
   ;

lexerElements
@init {
 enterLexerElements($start);
}
@after {
 exitLexerElements($start);
}
   : ^(ALT lexerElement+)
   ;

lexerElement
@init {
 enterLexerElement($start);
}
@after
 {
 exitLexerElement($start);
```

```
}
 : lexerAtom
 | lexerSubrule
 |   ACTION      {actionInAlt((ActionAST)$ACTION);}
 |   SEMPRED      {sempredInAlt((PredAST)$SEMPRED);}
 |   ^(ACTION elementOptions) {actionInAlt((ActionAST)$ACTION);}
 |   ^(SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);}
 | EPSILON
 ;

lexerBlock
@init {
 enterLexerBlock($start);
}
@after {
 exitLexerBlock($start);
}
 : ^(BLOCK optionsSpec? lexerAlternative+)
   ;

lexerAtom
@init {
 enterLexerAtom($start);
}
@after {
 exitLexerAtom($start);
}
   :   terminal
   |   ^(NOT blockSet)
   |   blockSet
   |   ^(WILDCARD elementOptions)
   |   WILDCARD
   | LEXER_CHAR_SET
   |   range
   |   ruleref
   ;

actionElement
@init {
 enterActionElement($start);
}
@after {
 exitActionElement($start);
}
 : ACTION
 |   ^(ACTION elementOptions)
 |   SEMPRED
 |   ^(SEMPRED elementOptions)
```

```
 ;

alternative
@init {
 enterAlternative((AltAST)$start);
 discoverAlt((AltAST)$start);
}
@after {
 finishAlt((AltAST)$start);
 exitAlternative((AltAST)$start);
}
 : ^(ALT
 elementOptions? element+)
 | ^(ALT elementOptions? EPSILON)
   ;

lexerCommand
@init {
 enterLexerCommand($start);
}
@after {
 exitLexerCommand($start);
}
 : ^(LEXER_ACTION_CALL ID lexerCommandExpr)
       {lexerCallCommand(currentOuterAltNumber, $ID, $lexerCommandExpr.start);}
 | ID
       {lexerCommand(currentOuterAltNumber, $ID);}
 ;

lexerCommandExpr
@init {
 enterLexerCommandExpr($start);
}
@after {
 exitLexerCommandExpr($start);
}
 : ID
 | INT
 ;

element
@init {
 enterElement($start);
}
@after {
 exitElement($start);
}
 : labeledElement
```

```
 | atom
 | subrule
 |   ACTION      {actionInAlt((ActionAST)$ACTION);}
 |   SEMPRED      {sempredInAlt((PredAST)$SEMPRED);}
 |   ^(ACTION elementOptions) {actionInAlt((ActionAST)$ACTION);}
 |   ^(SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);}
 | range
 | ^(NOT blockSet)
 | ^(NOT block)
 ;

astOperand
@init {
 enterAstOperand($start);
}
@after {
 exitAstOperand($start);
}
 : atom
 | ^(NOT
 blockSet)
 | ^(NOT block)
 ;

labeledElement
@init {
 enterLabeledElement($start);
}
@after {
 exitLabeledElement($start);
}
 : ^((ASSIGN|PLUS_ASSIGN) ID element) {label($start, $ID, $element.start);}
 ;

subrule
@init {
 enterSubrule($start);
}
@after {
 exitSubrule($start);
}
 : ^(blockSuffix block)
 |  block
   ;

lexerSubrule
@init {
 enterLexerSubrule($start);
```

```
}
@after {
 exitLexerSubrule($start);
}
 : ^(blockSuffix lexerBlock)
 |  lexerBlock
   ;

blockSuffix
@init {
 enterBlockSuffix($start);
}
@after {
 exitBlockSuffix($start);
}
   : ebnfSuffix
   ;

ebnfSuffix
@init {
 enterEbnfSuffix($start);
}
@after {
 exitEbnfSuffix($start);
}
 : OPTIONAL
  | CLOSURE
   | POSITIVE_CLOSURE
 ;

atom
@init {
 enterAtom($start);
}
@after {
 exitAtom($start);
}
 : ^(DOT ID terminal)
 | ^(DOT ID ruleref)
   | ^(WILDCARD elementOptions) {wildcardRef($WILDCARD);}
   | WILDCARD     {wildcardRef($WILDCARD);}
   |   terminal
   | blockSet
   |   ruleref
   ;

blockSet
@init
```

```
 {
 enterBlockSet($start);
}
@after {
 exitBlockSet($start);
}
 : ^(SET setElement+)
 ;

setElement
@init {
 enterSetElement($start);
}
@after {
 exitSetElement($start);
}
 : ^(STRING_LITERAL elementOptions)    {stringRef((TerminalAST)$STRING_LITERAL);}
 | ^(TOKEN_REF elementOptions)   {tokenRef((TerminalAST)$TOKEN_REF);}
 | STRING_LITERAL                    {stringRef((TerminalAST)$STRING_LITERAL);}
 | TOKEN_REF                     {tokenRef((TerminalAST)$TOKEN_REF);}
 | ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
  {
  stringRef((TerminalAST)$a);
  stringRef((TerminalAST)$b);
  }
      |      LEXER_CHAR_SET
 ;

block
@init {
 enterBlock($start);
}
@after {
 exitBlock($start);
}
   : ^(BLOCK optionsSpec? ruleAction* ACTION? alternative+)
   ;

ruleref
@init {
 enterRuleref($start);
}
@after {
 exitRuleref($start);
}
   : ^(RULE_REF arg=ARG_ACTION? elementOptions?)
    {
    ruleRef($RULE_REF, (ActionAST)$ARG_ACTION);
```

```
    if ( $arg!=null ) actionInAlt((ActionAST)$arg);
     }
   ;

range
@init {
 enterRange($start);
}
@after {
 exitRange($start);
}
   : ^(RANGE STRING_LITERAL STRING_LITERAL)
   ;

terminal
@init {
 enterTerminal($start);
}
@after {
 exitTerminal($start);
}
   :  ^(STRING_LITERAL elementOptions)
          {stringRef((TerminalAST)$STRING_LITERAL);}
   | STRING_LITERAL    {stringRef((TerminalAST)$STRING_LITERAL);}
   | ^(TOKEN_REF elementOptions) {tokenRef((TerminalAST)$TOKEN_REF);}
   | TOKEN_REF        {tokenRef((TerminalAST)$TOKEN_REF);}
   ;

elementOptions
@init {
 enterElementOptions($start);
}
@after {
 exitElementOptions($start);
}
   : ^(ELEMENT_OPTIONS elementOption[(GrammarASTWithOptions)$start.getParent()]*)
   ;

elementOption[GrammarASTWithOptions t]
@init {
 enterElementOption($start);
}
@after {
 exitElementOption($start);
}
   : ID        {elementOption(t, $ID, null);}
   |   ^(ASSIGN id=ID v=ID)   {elementOption(t, $id, $v);}
   |   ^(ASSIGN ID v=STRING_LITERAL) {elementOption(t, $ID, $v);}
```

```
  |   ^(ASSIGN
 ID v=ACTION)   {elementOption(t, $ID, $v);}
  |   ^(ASSIGN ID v=INT)    {elementOption(t, $ID, $v);}
  ;
```

Found in path(s):
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/GrammarTreeVisitor.g
No license file was found, but licenses were detected in source scan.

```
/*
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*  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
*  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

/** ANTLR tool checks output templates are compatible with tool code generation.
*  For now, a simple string match used on x.y of x.y.z scheme.
*  Must match Tool.VERSION during load to templates.
*
*  REQUIRED.
*/
```

```
pythonTypeInitMap ::= [
 "bool":"False",
 "int":"0",
 "float":"0.0",
 "str":"",
 default:"None" // anything other
 than a primitive type is an object
]

// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
# encoding: utf-8
from antlr4 import *
from io import StringIO
import sys
if sys.version_info[1] > 5:
 from typing import TextIO
else:
 from typing.io import TextIO

<namedActions.header>
<parser>

>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
if "." in __name__:
   from .<file.parserName> import <file.parserName>
else:
   from <file.parserName> import <file.parserName>
<header>

# This class defines a complete listener for a parse tree produced by <file.parserName>.
class <file.grammarName>Listener(ParseTreeListener):

   <file.listenerNames:{lname |
# Enter a parse tree produced by <file.parserName>#<lname>.
def enter<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
    pass

# Exit a parse tree produced by <file.parserName>#<lname>.
def exit<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
   pass
```

```
}; separator="\n">

del <file.parserName>
>>


VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
if "." in __name__:
  from .<file.parserName> import <file.parserName>
else:
  from <file.parserName> import <file.parserName>
<header>

# This class defines a complete generic visitor for a parse tree produced by <file.parserName>.

class <file.grammarName>Visitor(ParseTreeVisitor):

  <file.visitorNames:{lname |
# Visit a parse tree produced by <file.parserName>#<lname>.
def visit<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
  return self.visitChildren(ctx)

}; separator="\n">

del <file.parserName>
>>


fileHeader(grammarFileName, ANTLRVersion) ::= <<
# Generated from <grammarFileName> by ANTLR
 <ANTLRVersion>
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<if(superClass)>
if "." in __name__:
  from .<superClass> import <superClass>
else:
  from <superClass> import <superClass>

<endif>
```

```
<atn>

class <parser.name> ( <if(superClass)><superClass><else>Parser<endif> ):

  grammarFileName = "<parser.grammarFileName>"

  atn = ATNDeserializer().deserialize(serializedATN())

  decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

  sharedContextCache = PredictionContextCache()

  literalNames = [ <parser.literalNames:{t | <t>}; null="\"\<INVALID>\"", separator=", ", wrap, anchor> ]

  symbolicNames = [ <parser.symbolicNames:{t | <t>}; null="\"\<INVALID>\"", separator=", ", wrap, anchor> ]

  <if(parser.rules)>
  <parser.rules:{r | RULE_<r.name> = <r.index>}; separator="\n", wrap, anchor>
  <endif>

  ruleNames =
 [ <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ]

  EOF = <TokenLabelType()>.EOF
  <if(parser.tokens)>
  <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator="\n", wrap, anchor>
  <endif>

  <parser:(ctor)()>

  <namedActions.members>

  <funcs; separator="\n">


<if(sempredFuncs)>
  def sempred(self, localctx:RuleContext, ruleIndex:int, predIndex:int):
      if self._predicates == None:
          self._predicates = dict()
<parser.sempredFuncs.values:{f |
      self._predicates[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n        ">
      pred = self._predicates.get(ruleIndex, None)
      if pred is None:
          raise Exception("No predicate with index:" + str(ruleIndex))
      else:
          return pred(localctx, predIndex)

  <sempredFuncs.values; separator="\n">
```

```
<endif>



>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
def action(self, localctx:RuleContext, ruleIndex:int, actionIndex:int):
    if self._actions is None:
        actions = dict()
<recog.actionFuncs.values:{f|
        actions[<f.ruleIndex>] = self.<f.name>_action }; separator="\n">
        self._actions = actions
    action = self._actions.get(ruleIndex, None)
    if action is not None:
        action(localctx, actionIndex)
    else:
        raise Exception("No registered action for:" + str(ruleIndex))

<actionFuncs.values; separator="\n">

<endif>
<if(sempredFuncs)>
def sempred(self, localctx:RuleContext, ruleIndex:int, predIndex:int):
    if self._predicates is None:
        preds = dict()
<recog.sempredFuncs.values:{f|
        preds[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n">
        self._predicates = preds
    pred = self._predicates.get(ruleIndex, None)
    if pred is not None:
        return pred(localctx, predIndex)
    else:
        raise Exception("No registered predicate for:" + str(ruleIndex))

<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(p) ::= <<
def __init__(self,
 input:TokenStream, output:TextIO = sys.stdout):
    super().__init__(input, output)
    self.checkVersion("<file.ANTLRVersion>")
    self._interp = ParserATNSimulator(self, self.atn, self.decisionsToDFA, self.sharedContextCache)
    self._predicates = None
```

```
>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<

def <r.name>_action(self, localctx:<r.ctxType> , actionIndex:int):
<actions:{index|
<if(first(actions))>
  if actionIndex == <index>:
      <actions.(index)>
<elseif(rest(actions))>
  elif actionIndex == <index>:
      <actions.(index)>
<endif> }; separator="\n">
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
def <r.name>_sempred(self, localctx:<r.ctxType>, predIndex:int):
  <actions:{index|
<if(first(actions))>
   if predIndex == <index>:
      return <actions.(index)>
<elseif(rest(actions))>
  elif predIndex == <index>:
      return <actions.(index)>
<endif> }; separator="\n">

>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

<ruleCtx>

<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

def <currentRule.escapedName>(self<currentRule.args:{a | , <a.escapedName><if(a.type)>:<a.type><endif>}>):

  localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, self.state<currentRule.args:{a | ,
<a.escapedName>}>)
  self.enterRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>)
  <namedActions.init>
  <locals; separator="\n">
```

```
  try:
      <code>
      <postamble; separator="\n">
      <namedActions.after>
  <if(exceptions)>
  <exceptions; separator="\n">
  <else>
  except RecognitionException as re:
      localctx.exception = re
      self._errHandler.reportError(self,
 re)
      self._errHandler.recover(self, re)
  <endif>
  finally:
      <finallyAction>
      self.exitRule()
  return localctx

>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
 namedActions,finallyAction,postamble) ::=
<<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

def <currentRule.escapedName>(self, _p:int=0<if(currentRule.args)>, <args:{a | , <a>}><endif>):
  _parentctx = self._ctx
  _parentState = self.state
  localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, _parentState<args:{a | , <a.escapedName>}>)
  _prevctx = localctx
  _startState = <currentRule.startState>
  self.enterRecursionRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>, _p)
  <namedActions.init>
  <locals; separator="\n">
  try:
      <code>
      <postamble; separator="\n">
      <namedActions.after>
  except RecognitionException as re:
      localctx.exception = re

  self._errHandler.reportError(self, re)
      self._errHandler.recover(self, re)
  finally:
      <finallyAction>
      self.unrollRecursionContexts(_parentctx)
```

```
   return localctx

>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>localctx = <parser.name>.<currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(self, localctx)<endif>
self.enterOuterAlt(localctx, <currentOuterMostAltCodeBlock.alt.altNum>)
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
    <alt>
   pass}; separator="\nel">
else:
   <error>

>>

LL1OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
   <alt>
   pass}; separator="\nel">
else:
   pass
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
if <expr>:
   <alts; separator="\n">
```

```
<!else if ( !(<followExpr>) ) <error>!>
>>


LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
while <loopExpr>:
   <alts; separator="\n">
   self.state = <choice.loopBackStateNumber>
   self._errHandler.sync(self)
   <iteration>

>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.blockStartStateNumber> <! alt
 block decision !>
self._errHandler.sync(self)
<preamble; separator="\n">
while True:
   <alts; separator="\n">
   self.state = <choice.stateNumber> <! loopback/exit decision !>
   self._errHandler.sync(self)
   <iteration>
   if not (<loopExpr>):
       break

>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{alt |
if la_ == <i>:
   <alt>
   pass
}; separator="\nel">

>>
```

```
OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{alt |
if la_ == <i><if(!choice.ast.greedy)>+1<endif>:
   <alt>
}; separator="\nel">

>>

StarBlock(choice, alts, sync, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
_alt
 = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
   if _alt==1<if(!choice.ast.greedy)>+1<endif>:
       <iteration>
       <alts> <! should only be one !>
   self.state = <choice.loopBackStateNumber>
   self._errHandler.sync(self)
   _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

PlusBlock(choice, alts, error) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
_alt = 1<if(!choice.ast.greedy)>+1<endif>
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
   <alts:{alt|
if _alt == <i><if(!choice.ast.greedy)>+1<endif>:
   <alt>
}; separator="\nel">
   else:
       <error>
   self.state = <choice.loopBackStateNumber> <! loopback/exit decision !>
   self._errHandler.sync(self)
   _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

Sync(s)
 ::= "sync(<s.expecting.name>)"

ThrowNoViableAlt(t) ::= "raise NoViableAltException(self)"
```

```
TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.tokens)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" or ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> and ((1 \<\< <offsetShiftVar(s.varName,
bits.shift)>) & <bits.calculated>) != 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

offsetShiftType(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<parser.name>.<shiftAmount> - <offset>)<else><parser.name>.<shiftAmount><endif>
%>

bitsetInlineComparison(s, bits) ::= <%
<bits.tokens:{t
 | <s.varName>==<t.type>}; separator=" or ">
%>

cases(tokens) ::= <<
if token in [<tokens:{t | <t.type>}; separator=", ">]:
>>

InvokeRule(r, argExprsChunks) ::= <<
self.state = <r.stateNumber>
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif>self.<r.escapedName>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argE
xprsChunks>)
>>

MatchToken(m) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>self.match(<parser.name>.<m.name>)
>>
```

```
MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{l | <labelref(l)> = }>self._input.LT(1)<endif>
<capture>
<if(invert)>if <m.varName> \<= 0 or <expr><else>if not(<expr>)<endif>:
<if(m.labels)><m.labels:{l |     <labelref(l)> = }><else>    <endif>self._errHandler.recoverInline(self)
else:
    self._errHandler.reportMatch(self)
   self.consume()
>>

Wildcard(w) ::= <<
self.state = <w.stateNumber>
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>self.matchWildcard()
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
self.state = <p.stateNumber>
if not <chunks>:
   from antlr4.error.Errors import FailedPredicateException
   raise FailedPredicateException(self, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>,
<p.msg><endif>)
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
except <catchArg>:
   <catchAction>
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "skip()"
LexerMoreCommand()  ::= "more()"
LexerPopModeCommand() ::= "popMode()"

LexerTypeCommand(arg, grammar)      ::= "_type = <arg>"
LexerChannelCommand(arg, grammar)   ::= "_channel = <arg>"
```

```
LexerModeCommand(arg, grammar)      ::= "_mode = <arg>"
LexerPushModeCommand(arg,
 grammar)  ::= "pushMode(<arg>)"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "localctx.<a.escapedName>"
LocalRef(a) ::= "localctx.<a.escapedName>"
RetValueRef(a) ::= "localctx.<a.escapedName>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.escapedName>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.escapedName>"
LabelRef(t) ::= "<ctx(t)>.<t.escapedName>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.escapedName)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.escapedName> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(None if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.type)"
TokenPropertyRef_line(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "(0 if <ctx(t)>.<t.label> is None
 else <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "(0 if <ctx(t)>.<t.label> is None else int(<ctx(t)>.<t.label>.text))"

RulePropertyRef_start(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r)  ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r)  ::= "(None if <ctx(r)>.<r.label> is None else
self._input.getText(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop))"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "self"

ThisRulePropertyRef_start(r) ::= "localctx.start"
ThisRulePropertyRef_stop(r)  ::= "localctx.stop"
ThisRulePropertyRef_text(r)  ::= "self._input.getText(localctx.start, self._input.LT(-1))"
ThisRulePropertyRef_ctx(r)  ::= "localctx"
ThisRulePropertyRef_parser(r)
 ::= "self"

NonLocalAttrRef(s)     ::= "self.getInvokingContext(<s.ruleIndex>).<s.escapedName>"
SetNonLocalAttr(s, rhsChunks)  ::= "self.getInvokingContext(<s.ruleIndex>).<s.escapedName> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.append(<labelref(a.label)>)"

TokenDecl(t) ::= "self.<t.escapedName> = None # <TokenLabelType()>"
```

```
TokenTypeDecl(t) ::= "self.<t.escapedName> = 0 # <TokenLabelType()> type"
TokenListDecl(t) ::= "self.<t.escapedName> = list() # of <TokenLabelType()>s"
RuleContextDecl(r) ::= "self.<r.escapedName> = None # <r.ctxName>"
RuleContextListDecl(rdecl) ::= "self.<rdecl.escapedName> = list() # of <rdecl.ctxName>s"

ContextTokenGetterDecl(t)      ::= <<
def <t.escapedName>(self):
  return self.getToken(<parser.name>.<t.name>, 0)
>>

// should never be called
ContextTokenListGetterDecl(t)  ::= <<
def <t.name>_list(self):
  return self.getTokens(<parser.name>.<t.name>)
>>

ContextTokenListIndexedGetterDecl(t)  ::= <<
def <t.escapedName>(self,
 i:int=None):
  if i is None:
     return self.getTokens(<parser.name>.<t.name>)
  else:
     return self.getToken(<parser.name>.<t.name>, i)
>>

ContextRuleGetterDecl(r)       ::= <<
def <r.escapedName>(self):
  return self.getTypedRuleContext(<parser.name>.<r.ctxName>,0)

>>

// should never be called
ContextRuleListGetterDecl(r)   ::= <<
def <r.name>_list(self):
  return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)

>>

ContextRuleListIndexedGetterDecl(r)   ::= <<
def <r.escapedName>(self, i:int=None):
  if i is None:
     return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
  else:
     return self.getTypedRuleContext(<parser.name>.<r.ctxName>,i)

>>

LexerRuleContext() ::= "RuleContext"
```

```
/** The rule context name is the rule followed by a suffix; e.g.,
*  r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName)   ::= "_<ruleName>"
ImplicitSetLabel(id)
  ::= "_tset<id>"
ListLabelName(label)    ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = self._input.LA(1)"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,signatures) ::= <<
class <struct.escapedName>(<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif>):
   __slots__ = 'parser'

   def __init__(self, parser, parent:ParserRuleContext=None, invokingState:int=-1<struct.ctorAttrs:{a | ,
<a.escapedName><if(a.type)>:<a.type><endif>=None}>):
       super().__init__(parent, invokingState)
       self.parser = parser
       <attrs:{a | <a>}; separator="\n">
       <struct.ctorAttrs:{a | self.<a.escapedName> = <a.escapedName>}; separator="\n">

   <getters:{g | <g>}; separator="\n\n">

   def getRuleIndex(self):
       return <parser.name>.RULE_<struct.derivedFromName>

<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
    def copyFrom(self, ctx:ParserRuleContext):
       super().copyFrom(ctx)
       <struct.attrs:{a | self.<a.escapedName> = ctx.<a.escapedName>}; separator="\n">

<endif>
   <dispatchMethods; separator="\n">
   <extensionMembers; separator="\n">

>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.escapedName>(<currentRule.name; format="cap">Context):

   def __init__(self, parser, ctx:ParserRuleContext): # actually a <parser.name>.<currentRule.name;
format="cap">Context
       super().__init__(parser)
```

```
        <attrs:{a | <a>}; separator="\n">
        self.copyFrom(ctx)

    <getters:{g | <g>}; separator="\n">

    <dispatchMethods; separator="\n">

>>

ListenerDispatchMethod(method) ::= <<
def <if(method.isEnter)>enter<else>exit<endif>Rule(self, listener:ParseTreeListener):
    if hasattr( listener, "<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">" ):
        listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName;
 format="cap">(self)

>>

VisitorDispatchMethod(method) ::= <<
def accept(self, visitor:ParseTreeVisitor):
    if hasattr( visitor, "visit<struct.derivedFromName; format="cap">" ):
        return visitor.visit<struct.derivedFromName; format="cap">(self)
    else:
        return visitor.visitChildren(self)

>>

AttributeDecl(d) ::= "self.<d.escapedName> = <if(d.initValue)><d.initValue><else>None<endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>localctx.<endif><x.escapedName>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "localctx"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)  ::= "self.precpred(self._ctx, <opPrec>)"
recRuleSetReturnAction(src,name)   ::= "$<name>=$<src>.<name>"
recRuleSetStopToken()                ::= "self._ctx.stop = self._input.LT(-1)"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
localctx =
 <parser.name>.<ctxName>Context(self, _parentctx, _parentState)
<if(label)>
<if(isListLabel)>
localctx.<label>.append(_prevctx)
<else>
localctx.<label> = _prevctx
<endif>
```

```
<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
localctx = <parser.name>.<currentAltLabel; format="cap">Context(self, <parser.name>.<ruleName;
format="cap">Context(self, _parentctx, _parentState))
<if(label)>
<if(isListLabel)>
localctx.<label>.append(_prevctx)
<else>
localctx.<label> = _prevctx
<endif>
<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

recRuleReplaceContext(ctxName) ::= <<
localctx = <parser.name>.<ctxName>Context(self, localctx)
self._ctx = localctx
_prevctx = localctx
>>

recRuleSetPrevCtx() ::= <<
if self._parseListeners is not None:
   self.triggerExitRuleEvent()
_prevctx = localctx
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName,
 lexerFile.ANTLRVersion)>
from antlr4 import *
from io import StringIO
import sys
if sys.version_info[1] > 5:
   from typing import TextIO
else:
   from typing.io import TextIO

<namedActions.header>

<lexer>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<if(superClass)>
```

```
if "." in __name__:
   from .<superClass> import <superClass>
else:
   from <superClass> import <superClass>

<endif>
<atn>

class <lexer.name>(<if(superClass)><superClass><else>Lexer<endif>):

   atn = ATNDeserializer().deserialize(serializedATN())

   decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

<if(lexer.escapedChannels)>
   <lexer.escapedChannels:{c| <c> = <lexer.escapedChannels.(c)>}; separator="\n">

<endif>
<if(rest(lexer.escapedModeNames))>
   <rest(lexer.escapedModeNames):{m| <m> = <i>}; separator="\n">

<endif>
   <if(lexer.tokens)>
   <lexer.tokens:{k | <k> = <lexer.tokens.(k)>}; separator="\n", wrap, anchor>
   <endif>

    channelNames = [ u"DEFAULT_TOKEN_CHANNEL", u"HIDDEN"<if (lexer.channelNames)>,
<lexer.channelNames:{c| u"<c>"}; separator=", ", wrap, anchor><endif> ]

   modeNames = [ <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor> ]

   literalNames = [ "\<INVALID>",
         <lexer.literalNames:{t | <t>}; separator=", ", wrap, anchor> ]

   symbolicNames = [ "\<INVALID>",
         <lexer.symbolicNames:{t | <t>}; separator=", ", wrap, anchor> ]

   ruleNames = [ <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ]

   grammarFileName = "<lexer.grammarFileName>"

   def __init__(self, input=None, output:TextIO = sys.stdout):
      super().__init__(input, output)
      self.checkVersion("<lexerFile.ANTLRVersion>")
      self._interp = LexerATNSimulator(self, self.atn, self.decisionsToDFA, PredictionContextCache())
      self._actions = None
      self._predicates = None
```

```
   <namedActions.members>

   <dumpActions(lexer, "", actionFuncs, sempredFuncs)>

>>

SerializedATN(model)
 ::= <<
def serializedATN():
   return [
       <model.serialized: {s | <s>}; separator=",", wrap>
   ]
>>

/** Using a type to init value map, try to init a type; if not in table
*  must be an object, default value is "null".
*/
initValue(typeName) ::= <<
<pythonTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".py"
```

Found in path(s):
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/codegen/Python3/Python3.stg
No license file was found, but licenses were detected in source scan.


```
/*
* [The "BSD license"]
*  Copyright (c) 2012-2016 Terence Parr
*  Copyright (c) 2012-2016 Sam Harwell
*  All rights reserved.
*
*  Redistribution and use in source and binary forms, with or without
*  modification, are permitted provided that the following conditions
*  are met:
*
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*  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

tree grammar BlockSetTransformer;
options {
 language     = Java;
 tokenVocab   = ANTLRParser;
 ASTLabelType = GrammarAST;
 output   = AST;
 filter   = true;
}

@header {
package org.antlr.v4.parse;
import org.antlr.v4.misc.Utils;
import org.antlr.v4.misc.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.util.List;
import java.util.Set;
import
 java.util.HashSet;
import java.util.ArrayList;
import org.antlr.v4.runtime.misc.IntervalSet;
}

@members {
public String currentRuleName;
public GrammarAST currentAlt;
public Grammar g;
public BlockSetTransformer(TreeNodeStream input, Grammar g) {
   this(input, new RecognizerSharedState());
   this.g = g;
}
}

topdown
   : ^(RULE (id=TOKEN_REF|id=RULE_REF) {currentRuleName=$id.text;} .+)
   | setAlt
   | ebnfBlockSet
```

```
  | blockSet
 ;

setAlt
 : {inContext("RULE BLOCK")}?
  ALT {currentAlt = $start;}
 ;

// (BLOCK (ALT (+ (BLOCK (ALT INT) (ALT ID)))))
ebnfBlockSet
@after {
 GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
 : ^(ebnfSuffix blockSet) -> ^(ebnfSuffix ^(BLOCK<BlockAST> ^(ALT<AltAST> blockSet)))
 ;

ebnfSuffix
@after {$tree = (GrammarAST)adaptor.dupNode($start);}
 : OPTIONAL
  | CLOSURE
  | POSITIVE_CLOSURE
 ;

blockSet
@init {
boolean inLexer = Grammar.isTokenName(currentRuleName);
}
@after {
 GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
 : {inContext("RULE")}?
 // top-level: rule block and > 1 alt
  ^(BLOCK ^(alt=ALT elementOptions? {((AltAST)$alt).altLabel==null}? setElement[inLexer]) ( ^(ALT
elementOptions? setElement[inLexer]) )+)
  -> ^(BLOCK<BlockAST>[$BLOCK.token] ^(ALT<AltAST>[$BLOCK.token,"ALT"] ^(SET[$BLOCK.token,
"SET"] setElement+)))
 | {!inContext("RULE")}? // if not rule block and > 1 alt
  ^(BLOCK ^(ALT elementOptions? setElement[inLexer]) ( ^(ALT elementOptions? setElement[inLexer]) )+)
  -> ^(SET[$BLOCK.token, "SET"] setElement+)
 ;

setElement[boolean inLexer]
@after {
 GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
 : ( ^(a=STRING_LITERAL elementOptions) {!inLexer ||
CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1}?
  |   a=STRING_LITERAL {!inLexer || CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1}?
```

```
 | {!inLexer}?=> ^(TOKEN_REF elementOptions)
 | {!inLexer}?=>   TOKEN_REF
 | {inLexer}?=>  ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
  {CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1
&&
   CharSupport.getCharValueFromGrammarCharLiteral($b.getText())!=-1}?
 )
;

elementOptions
 : ^(ELEMENT_OPTIONS elementOption*)
 ;

elementOption
 : ID
 | ^(ASSIGN id=ID v=ID)
 | ^(ASSIGN ID v=STRING_LITERAL)
 | ^(ASSIGN ID v=ACTION)
 | ^(ASSIGN ID v=INT)
 ;
```

Found in path(s):
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/BlockSetTransformer.g
No license file was found, but licenses were detected in source scan.


```
/*
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*  Copyright (c) 2012-2016 Sam Harwell
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```
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*  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
*  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

/** ANTLR tool checks output templates are compatible with tool code generation.
*  For now, a simple string match used on x.y of x.y.z scheme.
*  Must match Tool.VERSION during load to templates.
*
*  REQUIRED.
*/

pythonTypeInitMap ::= [
 "bool":"False",
 "int":"0",
 "float":"0.0",
 "str":"",
 default:"None" // anything other
 than a primitive type is an object
]

// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
# encoding: utf-8
from __future__ import print_function
from antlr4 import *
from io import StringIO
import sys

<namedActions.header>
<parser>

>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
<header>

# This class defines a complete listener for a parse tree produced by <file.parserName>.
```

```
class <file.grammarName>Listener(ParseTreeListener):

   <file.listenerNames:{lname |
# Enter a parse tree produced by <file.parserName>#<lname>.
def enter<lname; format="cap">(self, ctx):
   pass

# Exit a parse tree produced by <file.parserName>#<lname>.
def exit<lname; format="cap">(self, ctx):
   pass

}; separator="\n">

>>


VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName,
 file.ANTLRVersion)>
from antlr4 import *
<header>

# This class defines a complete generic visitor for a parse tree produced by <file.parserName>.

class <file.grammarName>Visitor(ParseTreeVisitor):

   <file.visitorNames:{lname |
# Visit a parse tree produced by <file.parserName>#<lname>.
def visit<lname; format="cap">(self, ctx):
   return self.visitChildren(ctx)

}; separator="\n">

>>


fileHeader(grammarFileName, ANTLRVersion) ::= <<
# Generated from <grammarFileName> by ANTLR <ANTLRVersion>
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<if(superClass)>
if __name__ is not None and "." in __name__:
   from .<superClass> import <superClass>
```

```
else:
   from <superClass> import <superClass>

<endif>
<atn>

class <parser.name> ( <if(superClass)><superClass><else>Parser<endif> ):

   grammarFileName = "<parser.grammarFileName>"

   atn = ATNDeserializer().deserialize(serializedATN())

    decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

   sharedContextCache = PredictionContextCache()

   literalNames = [ <parser.literalNames:{t | u<t>}; null="u\"\<INVALID>\"", separator=", ", wrap, anchor> ]

   symbolicNames = [ <parser.symbolicNames:{t | u<t>}; null="u\"\<INVALID>\"", separator=", ", wrap, anchor> ]

   <if(parser.rules)>
   <parser.rules:{r | RULE_<r.name> = <r.index>}; separator="\n", wrap, anchor>
   <endif>

   ruleNames =  [ <parser.ruleNames:{r | u"<r>"}; separator=", ", wrap, anchor> ]

   EOF = <TokenLabelType()>.EOF
   <if(parser.tokens)>
   <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator="\n", wrap, anchor>
   <endif>

   <parser:(ctor)()>

   <namedActions.members>

   <funcs; separator="\n">


<if(sempredFuncs)>
   def sempred(self, localctx, ruleIndex, predIndex):
       if self._predicates == None:
           self._predicates = dict()
<parser.sempredFuncs.values:{f
|
       self._predicates[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n        ">
       pred = self._predicates.get(ruleIndex, None)
       if pred is None:
           raise Exception("No predicate with index:" + str(ruleIndex))
```

```
        else:
            return pred(localctx, predIndex)

    <sempredFuncs.values; separator="\n">
<endif>



>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
def action(self, localctx, ruleIndex, actionIndex):
    if self._actions is None:
        actions = dict()
<recog.actionFuncs.values:{f|
        actions[<f.ruleIndex>] = self.<f.name>_action }; separator="\n">
        self._actions = actions
    action = self._actions.get(ruleIndex, None)
    if action is not None:
        action(localctx, actionIndex)
    else:
        raise Exception("No registered action for:" + str(ruleIndex))

<actionFuncs.values; separator="\n">

<endif>
<if(sempredFuncs)>
def sempred(self, localctx, ruleIndex, predIndex):
     if self._predicates is None:
        preds = dict()
<recog.sempredFuncs.values:{f|
        preds[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n">
        self._predicates = preds
    pred = self._predicates.get(ruleIndex, None)
    if pred is not None:
        return pred(localctx, predIndex)
    else:
        raise Exception("No registered predicate for:" + str(ruleIndex))

<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(p) ::= <<
def __init__(self, input, output=sys.stdout):
    super(<parser.name>, self).__init__(input, output=output)
    self.checkVersion("<file.ANTLRVersion>")
```

```
  self._interp = ParserATNSimulator(self, self.atn, self.decisionsToDFA, self.sharedContextCache)
  self._predicates = None

>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<

def <r.name>_action(self, localctx , actionIndex):
<actions:{index|
<if(first(actions))>
   if actionIndex == <index>:
      <actions.(index)>
<elseif(rest(actions))>
  elif actionIndex == <index>:
      <actions.(index)>
<endif> }; separator="\n">
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
def <r.name>_sempred(self, localctx, predIndex):
  <actions:{index|
<if(first(actions))>
  if predIndex == <index>:
      return <actions.(index)>
<elseif(rest(actions))>
  elif predIndex == <index>:
      return <actions.(index)>
<endif> }; separator="\n">

>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

<ruleCtx>

<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

def <currentRule.escapedName>(self<currentRule.args:{a | , <a.escapedName>}>):

  localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, self.state<currentRule.args:{a
```

```
| , <a.escapedName>}>)
  self.enterRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>)
  <namedActions.init>
  <locals; separator="\n">
  try:
     <code>
     <postamble; separator="\n">
     <namedActions.after>
  <if(exceptions)>
  <exceptions; separator="\n">
  <else>
  except RecognitionException as re:
     localctx.exception = re
     self._errHandler.reportError(self, re)
     self._errHandler.recover(self, re)
  <endif>
  finally:
     <finallyAction>
     self.exitRule()
  return localctx

>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
 namedActions,finallyAction,postamble) ::=
<<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

def <currentRule.escapedName>(self, _p=0<if(currentRule.args)>, <args:{a | , <a>}><endif>):
  _parentctx = self._ctx
  _parentState = self.state
  localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, _parentState<args:{a
| , <a.escapedName>}>)
  _prevctx = localctx
  _startState = <currentRule.startState>
  self.enterRecursionRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>, _p)
  <namedActions.init>
  <locals; separator="\n">
  try:
     <code>
     <postamble; separator="\n">
     <namedActions.after>
  except RecognitionException as re:
     localctx.exception = re
     self._errHandler.reportError(self, re)
     self._errHandler.recover(self, re)
```

```
   finally:
       <finallyAction>
       self.unrollRecursionContexts(_parentctx)
   return localctx

>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>localctx = <parser.name>.<currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(self, localctx)<endif>
self.enterOuterAlt(localctx, <currentOuterMostAltCodeBlock.alt.altNum>)
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock,
 locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
   <alt>
   pass}; separator="\nel">
else:
   <error>

>>

LL1OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
   <alt>
   pass}; separator="\nel">
else:
   pass
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
self.state = <choice.stateNumber>
```

```
self._errHandler.sync(self)
<preamble; separator="\n">
if <expr>:
   <alts; separator="\n">

<!else if ( !(<followExpr>) ) <error>!>
>>


LL1StarBlockSingleAlt(choice,
 loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
while <loopExpr>:
   <alts; separator="\n">
   self.state = <choice.loopBackStateNumber>
   self._errHandler.sync(self)
   <iteration>

>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
<preamble; separator="\n">
while True:
   <alts; separator="\n">
   self.state = <choice.stateNumber> <! loopback/exit decision !>
   self._errHandler.sync(self)
   <iteration>
   if not (<loopExpr>):
       break

>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{alt |
if la_ ==
 <i>:
   <alt>
```

```
   pass
}; separator="\nel">

>>

OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{alt |
if la_ == <i><if(!choice.ast.greedy)>+1<endif>:
   <alt>
}; separator="\nel">

>>

StarBlock(choice, alts, sync, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
_alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
   if _alt==1<if(!choice.ast.greedy)>+1<endif>:
       <iteration>
       <alts> <! should only be one !>
   self.state = <choice.loopBackStateNumber>
   self._errHandler.sync(self)
   _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

PlusBlock(choice, alts, error) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
_alt = 1<if(!choice.ast.greedy)>+1<endif>
while
 _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
   <alts:{alt|
if _alt == <i><if(!choice.ast.greedy)>+1<endif>:
   <alt>
}; separator="\nel">
   else:
       <error>
   self.state = <choice.loopBackStateNumber> <! loopback/exit decision !>
   self._errHandler.sync(self)
   _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>
```

```
Sync(s) ::= "sync(<s.expecting.name>)"

ThrowNoViableAlt(t) ::= "raise NoViableAltException(self)"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.tokens)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" or ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> and ((1 \<\< <offsetShiftVar(s.varName,
 bits.shift)>) & <bits.calculated>) != 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

offsetShiftType(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<parser.name>.<shiftAmount> - <offset>)<else><parser.name>.<shiftAmount><endif>
%>

bitsetInlineComparison(s, bits) ::= <%
<bits.tokens:{t | <s.varName>==<t.type>}; separator=" or ">
%>

cases(tokens) ::= <<
if token in [<tokens:{t | <t.type>}; separator=", ">]:
>>

InvokeRule(r, argExprsChunks) ::= <<
self.state = <r.stateNumber>
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif>self.<r.escapedName>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argE
xprsChunks>)
>>

MatchToken(m) ::= <<
```

```
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>self.match(<parser.name>.<m.name>)
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m,
 expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{l | <labelref(l)> = }>self._input.LT(1)<endif>
<capture>
<if(invert)>if <m.varName> \<= 0 or <expr><else>if not(<expr>)<endif>:
<if(m.labels)><m.labels:{l |     <labelref(l)> = }><else>    <endif>self._errHandler.recoverInline(self)
else:
   self._errHandler.reportMatch(self)
   self.consume()
>>

Wildcard(w) ::= <<
self.state = <w.stateNumber>
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>self.matchWildcard()
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
self.state = <p.stateNumber>
if not <chunks>:
   from antlr4.error.Errors import FailedPredicateException
   raise FailedPredicateException(self, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>,
<p.msg><endif>)
>>

ExceptionClause(e, catchArg, catchAction)
 ::= <<
except <catchArg>:
   <catchAction>
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "skip()"
```

```
LexerMoreCommand()  ::= "more()"
LexerPopModeCommand() ::= "popMode()"

LexerTypeCommand(arg, grammar)      ::= "_type = <arg>"
LexerChannelCommand(arg, grammar)   ::= "_channel = <arg>"
LexerModeCommand(arg, grammar)      ::= "_mode = <arg>"
LexerPushModeCommand(arg, grammar)  ::= "pushMode(<arg>)"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "localctx.<a.escapedName>"
LocalRef(a) ::= "localctx.<a.escapedName>"
RetValueRef(a) ::= "localctx.<a.escapedName>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.escapedName>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.escapedName>"
LabelRef(t) ::= "<ctx(t)>.<t.escapedName>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.escapedName)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.escapedName> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType()
 ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(None if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.type)"
TokenPropertyRef_line(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "(0 if <ctx(t)>.<t.label> is None else int(<ctx(t)>.<t.label>.text))"

RulePropertyRef_start(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r)  ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r)  ::= "(None if <ctx(r)>.<r.label> is
 None else self._input.getText(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop))"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "self"

ThisRulePropertyRef_start(r) ::= "localctx.start"
ThisRulePropertyRef_stop(r)  ::= "localctx.stop"
ThisRulePropertyRef_text(r)  ::= "self._input.getText(localctx.start, self._input.LT(-1))"
ThisRulePropertyRef_ctx(r)  ::= "localctx"
ThisRulePropertyRef_parser(r)  ::= "self"

NonLocalAttrRef(s)     ::= "self.getInvokingContext(<s.ruleIndex>).<s.escapedName>"
SetNonLocalAttr(s, rhsChunks)  ::= "self.getInvokingContext(<s.ruleIndex>).<s.escapedName> = <rhsChunks>"
```

```
AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.append(<labelref(a.label)>)"

TokenDecl(t) ::= "self.<t.escapedName> = None # <TokenLabelType()>"
TokenTypeDecl(t) ::= "self.<t.escapedName> = 0 # <TokenLabelType()> type"
TokenListDecl(t) ::= "self.<t.escapedName> = list() # of <TokenLabelType()>s"
RuleContextDecl(r) ::= "self.<r.escapedName> = None # <r.ctxName>"
RuleContextListDecl(rdecl)
 ::= "self.<rdecl.escapedName> = list() # of <rdecl.ctxName>s"

ContextTokenGetterDecl(t)      ::= <<
def <t.escapedName>(self):
   return self.getToken(<parser.name>.<t.name>, 0)
>>

// should never be called
ContextTokenListGetterDecl(t)  ::= <<
def <t.name>_list(self):
   return self.getTokens(<parser.name>.<t.name>)
>>

ContextTokenListIndexedGetterDecl(t)  ::= <<
def <t.escapedName>(self, i=None):
   if i is None:
       return self.getTokens(<parser.name>.<t.name>)
   else:
       return self.getToken(<parser.name>.<t.name>, i)
>>

ContextRuleGetterDecl(r)       ::= <<
def <r.escapedName>(self):
   return self.getTypedRuleContext(<parser.name>.<r.ctxName>,0)

>>

// should never be called
ContextRuleListGetterDecl(r)   ::= <<
def <r.name>_list(self):
   return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)

>>

ContextRuleListIndexedGetterDecl(r)   ::= <<
def <r.escapedName>(self, i=None):
   if i is None:
       return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
    else:
       return self.getTypedRuleContext(<parser.name>.<r.ctxName>,i)
```

```
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
*  r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName)   ::= "_<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)    ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = self._input.LA(1)"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,signatures) ::= <<
class <struct.escapedName>(<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif>):

  def __init__(self, parser, parent=None, invokingState=-1<struct.ctorAttrs:{a | , <a.escapedName>=None}>):
      super(<parser.name>.<struct.name>, self).__init__(parent, invokingState)

 self.parser = parser
      <attrs:{a | <a>}; separator="\n">
      <struct.ctorAttrs:{a | self.<a.escapedName> = <a.escapedName>}; separator="\n">

  <getters:{g | <g>}; separator="\n\n">

  def getRuleIndex(self):
      return <parser.name>.RULE_<struct.derivedFromName>

<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
  def copyFrom(self, ctx):
      super(<parser.name>.<struct.name>, self).copyFrom(ctx)
      <struct.attrs:{a | self.<a.escapedName> = ctx.<a.escapedName>}; separator="\n">

<endif>
  <dispatchMethods; separator="\n">
  <extensionMembers; separator="\n">

>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.escapedName>(<currentRule.name; format="cap">Context):

  def __init__(self, parser, ctx): # actually a <parser.name>.<currentRule.name; format="cap">Context)
      super(<parser.name>.<struct.name>, self).__init__(parser)
```

```
        <attrs:{a | <a>}; separator="\n">
        self.copyFrom(ctx)

    <getters:{g | <g>}; separator="\n">

   <dispatchMethods; separator="\n">

>>

ListenerDispatchMethod(method) ::= <<
def <if(method.isEnter)>enter<else>exit<endif>Rule(self, listener):
   if hasattr(listener, "<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">"):
        listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(self)

>>

VisitorDispatchMethod(method) ::= <<
def accept(self, visitor):
   if hasattr(visitor, "visit<struct.derivedFromName; format="cap">"):
        return visitor.visit<struct.derivedFromName; format="cap">(self)
   else:
        return visitor.visitChildren(self)

>>

AttributeDecl(d) ::= "self.<d.escapedName> = <if(d.initValue)><d.initValue><else>None<endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>localctx.<endif><x.escapedName>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk)
 ::= "localctx"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)  ::= "self.precpred(self._ctx, <opPrec>)"
recRuleSetReturnAction(src,name)   ::= "$<name>=$<src>.<name>"
recRuleSetStopToken()                ::= "self._ctx.stop = self._input.LT(-1)"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
localctx = <parser.name>.<ctxName>Context(self, _parentctx, _parentState)
<if(label)>
<if(isListLabel)>
localctx.<label>.append(_prevctx)
<else>
localctx.<label> = _prevctx
<endif>
<endif>
```

```
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
localctx = <parser.name>.<currentAltLabel; format="cap">Context(self, <parser.name>.<ruleName;
format="cap">Context(self, _parentctx, _parentState))
<if(label)>
<if(isListLabel)>
localctx.<label>.append(_prevctx)
<else>
localctx.<label> = _prevctx
<endif>
<endif>
self.pushNewRecursionContext(localctx, _startState,
 self.RULE_<ruleName>)
>>


recRuleReplaceContext(ctxName) ::= <<
localctx = <parser.name>.<ctxName>Context(self, localctx)
self._ctx = localctx
_prevctx = localctx
>>

recRuleSetPrevCtx() ::= <<
if self._parseListeners is not None:
   self.triggerExitRuleEvent()
_prevctx = localctx
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
# encoding: utf-8
from __future__ import print_function
from antlr4 import *
from io import StringIO
import sys

<namedActions.header>

<lexer>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<if(superClass)>
if __name__ is not None and "." in __name__:
   from .<superClass> import <superClass>
```

```
else:
  from <superClass> import <superClass>

<endif>

<atn>

class <lexer.name>(<if(superClass)><superClass><else>Lexer<endif>):

  atn = ATNDeserializer().deserialize(serializedATN())

  decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

<if(lexer.escapedChannels)>
   <lexer.escapedChannels:{c| <c> = <lexer.escapedChannels.(c)>}; separator="\n">

<endif>
<if(rest(lexer.escapedModeNames))>
  <rest(lexer.escapedModeNames):{m| <m> = <i>}; separator="\n">

<endif>
  <if(lexer.tokens)>
  <lexer.tokens:{k | <k> = <lexer.tokens.(k)>}; separator="\n", wrap, anchor>
  <endif>

  channelNames = [ u"DEFAULT_TOKEN_CHANNEL", u"HIDDEN"<if (lexer.channelNames)>,
<lexer.channelNames:{c| u"<c>"}; separator=", ", wrap, anchor><endif> ]

  modeNames = [ <lexer.modes:{m| u"<m>"}; separator=", ", wrap, anchor> ]

  literalNames = [ u"\<INVALID>",
        <lexer.literalNames:{t | u<t>}; separator=", ", wrap, anchor> ]

  symbolicNames = [ u"\<INVALID>",
        <lexer.symbolicNames:{t | u<t>}; separator=", ", wrap, anchor> ]

  ruleNames = [ <lexer.ruleNames:{r | u"<r>"}; separator=", ", wrap, anchor> ]

  grammarFileName = u"<lexer.grammarFileName>"

  def __init__(self, input=None, output=sys.stdout):

  super(<lexer.name>, self).__init__(input, output=output)
     self.checkVersion("<lexerFile.ANTLRVersion>")
     self._interp = LexerATNSimulator(self, self.atn, self.decisionsToDFA, PredictionContextCache())
     self._actions = None
     self._predicates = None
```

```
  <namedActions.members>

  <dumpActions(lexer, "", actionFuncs, sempredFuncs)>

>>

SerializedATN(model) ::= <<
def serializedATN():
  return [
      <model.serialized: {s | <s>}; separator=",", wrap>
  ]
>>

/** Using a type to init value map, try to init a type; if not in table
*  must be an object, default value is "null".
*/
initValue(typeName) ::= <<
<pythonTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".py"
```

Found in path(s):
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/codegen/Python2/Python2.stg
No license file was found, but licenses were detected in source scan.

```
* [The "BSD license"]
*  All rights reserved.
*  Redistribution and use in source and binary forms, with or without
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*  2. Redistributions in binary form must reproduce the above copyright
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*     documentation and/or other materials provided with the distribution.
*  3. The name of the author may not be used to endorse or promote products
*     derived from this software without specific prior written permission.
```

Found in path(s):
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/codegen/Cpp/Cpp.stg
No license file was found, but licenses were detected in source scan.

```
/*
[The "BSD licence"]
Copyright (c) 2006 Kay Roepke
```

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*/
/*
This file contains the actual layout of the messages emitted by ANTLR.
This file contains the default format ANTLR uses.
*/

location(file, line, column) ::= "<file>:<line>:<column>:"

message(id, text) ::= "(<id>) <text>"

report(location, message, type) ::= "<type>(<message.id>): <location> <message.text>"

wantsSingleLineMessage() ::= "false"

Found in path(s):
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/messages/formats/antlr.stg
No license file was found, but licenses were detected in source scan.

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*/
/*
This file contains the actual layout of the messages emitted by ANTLR.
The text itself is coming out of the languages/*stg files, according to the chosen locale.
This file contains the format that mimicks GCC output.
*/

location(file, line, column) ::= "<file>:<line>:<column>:"

message(id, text) ::= "<text> [error <id>]"

report(location, message, type) ::= "<location> <type>: <message>"

wantsSingleLineMessage() ::= "true"

Found in path(s):
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-
jar/org/antlr/v4/tool/templates/messages/formats/gnu.stg
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*/

// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<namedActions.header>
using System;
using System.IO;
using System.Text;
using System.Diagnostics;
using System.Collections.Generic;
using
 Antlr4.Runtime;
using Antlr4.Runtime.Atn;
using Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
using DFA = Antlr4.Runtime.Dfa.DFA;

<parser>
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>
```

```
ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>
using Antlr4.Runtime.Misc;
using IParseTreeListener = Antlr4.Runtime.Tree.IParseTreeListener;
using IToken = Antlr4.Runtime.IToken;

/// \<summary>
/// This interface defines a complete listener for a parse tree produced by
/// \<see cref="<file.parserName>"/>.
/// \</summary>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public interface I<file.grammarName>Listener : IParseTreeListener {
 <file.listenerNames:{lname |
/// \<summary>
<if(file.listenerLabelRuleNames.(lname))>
/// Enter a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in
 \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>.
<else>
/// Enter a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
void Enter<lname; format="cap">([NotNull] <file.parserName>.<lname; format="cap">Context context);
/// \<summary>
<if(file.listenerLabelRuleNames.(lname))>
/// Exit a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>.
<else>
/// Exit a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
void Exit<lname; format="cap">([NotNull] <file.parserName>.<lname; format="cap">Context context);};
separator="\n">
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

BaseListenerFile(file, header, namedActions) ::= <<
```

```
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace
 <file.genPackage> {
<endif>
<header>

using Antlr4.Runtime.Misc;
using IErrorNode = Antlr4.Runtime.Tree.IErrorNode;
using ITerminalNode = Antlr4.Runtime.Tree.ITerminalNode;
using IToken = Antlr4.Runtime.IToken;
using ParserRuleContext = Antlr4.Runtime.ParserRuleContext;

/// \<summary>
/// This class provides an empty implementation of \<see cref="I<file.grammarName>Listener"/>,
/// which can be extended to create a listener which only needs to handle a subset
/// of the available methods.
/// \</summary>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.Diagnostics.DebuggerNonUserCode]
[System.CLSCompliant(false)]
public partial class <file.grammarName>BaseListener : I<file.grammarName>Listener {
 <file.listenerNames:{lname |
/// \<summary>
<if(file.listenerLabelRuleNames.(lname))>
/// Enter a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>.
<else>
///
 Enter a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \<para>The default implementation does nothing.\</para>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
public virtual void Enter<lname; format="cap">([NotNull] <file.parserName>.<lname; format="cap">Context
context) { \}
/// \<summary>
<if(file.listenerLabelRuleNames.(lname))>
/// Exit a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>.
<else>
/// Exit a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \<para>The default implementation does nothing.\</para>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
public virtual void Exit<lname; format="cap">([NotNull] <file.parserName>.<lname; format="cap">Context
context) { \}}; separator="\n">
```

```
 /// \<inheritdoc/>
 /// \<remarks>The default implementation does nothing.\</remarks>
 public
 virtual void EnterEveryRule([NotNull] ParserRuleContext context) { }
 /// \<inheritdoc/>
 /// \<remarks>The default implementation does nothing.\</remarks>
 public virtual void ExitEveryRule([NotNull] ParserRuleContext context) { }
 /// \<inheritdoc/>
 /// \<remarks>The default implementation does nothing.\</remarks>
 public virtual void VisitTerminal([NotNull] ITerminalNode node) { }
 /// \<inheritdoc/>
 /// \<remarks>The default implementation does nothing.\</remarks>
 public virtual void VisitErrorNode([NotNull] IErrorNode node) { }
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>
using Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
using IToken = Antlr4.Runtime.IToken;

/// \<summary>
/// This interface defines a complete generic visitor for a parse tree produced
/// by \<see cref="<file.parserName>"/>.
///
 \</summary>
/// \<typeparam name="Result">The return type of the visit operation.\</typeparam>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public interface I<file.grammarName>Visitor\<Result> : IParseTreeVisitor\<Result> {
 <file.visitorNames:{lname |
/// \<summary>
<if(file.visitorLabelRuleNames.(lname))>
/// Visit a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.visitorLabelRuleNames.(lname)>"/>.
<else>
/// Visit a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \</summary>
```

```
/// \<param name="context">The parse tree.\</param>
/// \<return>The visitor result.\</return>
Result Visit<lname; format="cap">([NotNull] <file.parserName>.<lname; format="cap">Context context);};
separator="\n">
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName,
 file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>
using Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
using IToken = Antlr4.Runtime.IToken;
using ParserRuleContext = Antlr4.Runtime.ParserRuleContext;

/// \<summary>
/// This class provides an empty implementation of \<see cref="I<file.grammarName>Visitor{Result}"/>,
/// which can be extended to create a visitor which only needs to handle a subset
/// of the available methods.
/// \</summary>
/// \<typeparam name="Result">The return type of the visit operation.\</typeparam>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.Diagnostics.DebuggerNonUserCode]
[System.CLSCompliant(false)]
public partial class <file.grammarName>BaseVisitor\<Result> : AbstractParseTreeVisitor\<Result>,
I<file.grammarName>Visitor\<Result> {
 <file.visitorNames:{lname |
/// \<summary>
<if(file.visitorLabelRuleNames.(lname))>
/// Visit a parse tree produced by the \<c><lname>\</c>
///
 labeled alternative in \<see cref="<file.parserName>.<file.visitorLabelRuleNames.(lname)>"/>.
<else>
/// Visit a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \<para>
/// The default implementation returns the result of calling \<see
cref="AbstractParseTreeVisitor{Result\}.VisitChildren(IRuleNode)"/>
/// on \<paramref name="context"/>.
/// \</para>
/// \</summary>
```

```
/// \<param name="context">The parse tree.\</param>
/// \<return>The visitor result.\</return>
public virtual Result Visit<lname; format="cap">([NotNull] <file.parserName>.<lname; format="cap">Context
context) { return VisitChildren(context); \}}; separator="\n">
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
//-----------------------------------------------------------------------------
// \<auto-generated>
//     This code was generated by a tool.
//     ANTLR Version: <ANTLRVersion>
//
//     Changes to this file may
 cause incorrect behavior and will be lost if
//     the code is regenerated.
// \</auto-generated>
//-----------------------------------------------------------------------------

// Generated from <grammarFileName> by ANTLR <ANTLRVersion>

// Unreachable code detected
#pragma warning disable 0162
// The variable '...' is assigned but its value is never used
#pragma warning disable 0219
// Missing XML comment for publicly visible type or member '...'
#pragma warning disable 1591
// Ambiguous reference in cref attribute
#pragma warning disable 419

>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <parser.name> : <superClass; null="Parser"> {
 protected static DFA[] decisionToDFA;
 protected static PredictionContextCache sharedContextCache = new PredictionContextCache();
 <if(parser.tokens)>
 public
```

```
 const int
  <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator=", ", wrap, anchor>;
 <endif>
 <if(parser.rules)>
 public const int
  <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
 <endif>
 public static readonly string[] ruleNames = {
  <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
 };

 <vocabulary(parser.literalNames, parser.symbolicNames)>

 public override string GrammarFileName { get { return "<parser.grammarFileName>"; } }

 public override string[] RuleNames { get { return ruleNames; } }

 public override int[] SerializedAtn { get { return _serializedATN; } }

 static <parser.name>() {
  decisionToDFA = new DFA[_ATN.NumberOfDecisions];
  for (int i = 0; i \< _ATN.NumberOfDecisions; i++) {
   decisionToDFA[i] = new DFA(_ATN.GetDecisionState(i), i);
  }
 }

 <namedActions.members>
 <parser:(ctor)()>
 <funcs; separator="\n">

<if(sempredFuncs)>
 public override bool Sempred(RuleContext
 _localctx, int ruleIndex, int predIndex) {
  switch (ruleIndex) {
  <parser.sempredFuncs.values:{f|
case <f.ruleIndex>: return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">
  }
  return true;
 }
 <sempredFuncs.values; separator="\n">
<endif>

 <atn>
}
>>

vocabulary(literalNames, symbolicNames) ::= <<
private static readonly string[] _LiteralNames = {
```

```
 <literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
};
private static readonly string[] _SymbolicNames = {
 <symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
};
public static readonly IVocabulary DefaultVocabulary = new Vocabulary(_LiteralNames, _SymbolicNames);

[NotNull]
public override IVocabulary Vocabulary
{
 get
 {
  return DefaultVocabulary;
 }
}
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
public override void Action(RuleContext _localctx, int ruleIndex, int actionIndex) {
 switch (ruleIndex) {
 <recog.actionFuncs.values:{f|
case
 <f.ruleIndex> : <f.name>_action(<if(!recog.modes)>(<f.ctxType>)<endif>_localctx, actionIndex); break;};
separator="\n">
 }
}
<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
public override bool Sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
 switch (ruleIndex) {
 <recog.sempredFuncs.values:{f|
case <f.ruleIndex> : return <f.name>_sempred(<if(!recog.modes)>(<f.ctxType>)<endif>_localctx, predIndex);};
separator="\n">
 }
 return true;
}
<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(parser) ::= <<
 public <parser.name>(ITokenStream input) : this(input, Console.Out, Console.Error) { }

 public <parser.name>(ITokenStream input, TextWriter output, TextWriter errorOutput)
 : base(input, output, errorOutput)
{
```

```
 Interpreter = new ParserATNSimulator(this, _ATN, decisionToDFA, sharedContextCache);
}
>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r,
 actions) ::= <<
private void <r.name>_action(<r.ctxType> _localctx, int actionIndex) {
 switch (actionIndex) {
 <actions:{index|
case <index>: <actions.(index)> break;}; separator="\n">
 }
}
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
private bool <r.name>_sempred(<r.ctxType> _localctx, int predIndex) {
 switch (predIndex) {
 <actions:{index|
case <index>: return <actions.(index)>;}; separator="\n">
 }
 return true;
}
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

<if(ruleCtx)>
<ruleCtx>
<endif>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

[RuleVersion(<namedActions.version; null="0">)]
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public <endif><currentRule.ctxType>
<currentRule.escapedName>(<args; separator=", ">) {
 <currentRule.ctxType>
 _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | , <a.escapedName>}>);
 EnterRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>);
 <namedActions.init>
 <locals; separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
```

```
 int _alt;
<endif>
 <code>
 <postamble; separator="\n">
 <namedActions.after>
}
<if(exceptions)>
<exceptions; separator="\n">
<else>
catch (RecognitionException re) {
 _localctx.exception = re;
 ErrorHandler.ReportError(this, re);
 ErrorHandler.Recover(this, re);
}
<endif>
finally {
 <finallyAction>
 ExitRule();
}
return _localctx;
}
>>

LeftFactoredRuleFunction(currentRule,args,code,locals,namedActions,finallyAction,postamble) ::=
<<

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>private <endif><currentRule.ctxType>
<currentRule.escapedName>(<args; separator=", ">) {
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | ,
<a.escapedName>}>);
 EnterLeftFactoredRule(_localctx,
 <currentRule.startState>, RULE_<currentRule.variantOf>);
 <namedActions.init>
 <locals; separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
 int _alt;
<endif>
 <code>
 <postamble; separator="\n">
 <namedActions.after>
}
catch (RecognitionException re) {
 _localctx.exception = re;
 ErrorHandler.ReportError(this, re);
 ErrorHandler.Recover(this, re);
}
finally {
```

```
  <finallyAction>
  ExitRule();
 }
 return _localctx;
}
>>

// This behaves similar to RuleFunction (enterRule is called, and no adjustments
// are made to the parse tree), but since it's still a variant no context class
// needs to be generated.
LeftUnfactoredRuleFunction(currentRule,args,code,locals,namedActions,finallyAction,postamble) ::=
<<

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>private <endif><currentRule.ctxType>
<currentRule.escapedName>(<args; separator=", ">) {
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context,
 State<currentRule.args:{a | , <a.escapedName>}>);
 EnterRule(_localctx, <currentRule.startState>, RULE_<currentRule.variantOf>);
 <namedActions.init>
 <locals; separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 }
 catch (RecognitionException re) {
  _localctx.exception = re;
  ErrorHandler.ReportError(this, re);
  ErrorHandler.Recover(this, re);
 }
 finally {
  <finallyAction>
  ExitRule();
 }
 return _localctx;
}
>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
 namedActions,finallyAction,postamble) ::=
<<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">
```

```
[RuleVersion(<namedActions.version; null="0">)]
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public <endif><currentRule.ctxType>
<currentRule.escapedName>(<args; separator=", ">) {
 return <currentRule.escapedName>(0<currentRule.args:{a | , <a.escapedName>}>);
}

private <currentRule.ctxType>
 <currentRule.escapedName>(int _p<args:{a | , <a>}>) {
 ParserRuleContext _parentctx = Context;
 int _parentState = State;
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, _parentState<currentRule.args:{a | ,
<a.escapedName>}>);
 <currentRule.ctxType> _prevctx = _localctx;
 int _startState = <currentRule.startState>;
 EnterRecursionRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>, _p);
 <namedActions.init>
 <locals; separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 }
 catch (RecognitionException re) {
  _localctx.exception = re;
  ErrorHandler.ReportError(this, re);
  ErrorHandler.Recover(this, re);
 }
 finally {
  <finallyAction>
  UnrollRecursionContexts(_parentctx);
 }
 return _localctx;
}
>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx = new
 <currentOuterMostAltCodeBlock.altLabel; format="cap">Context(_localctx);<endif>
EnterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
{
<locals; separator="\n">
```

```
<preamble; separator="\n">
<ops; separator="\n">
}
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<if(choice.label)><labelref(choice.label)> = TokenStream.LT(1);<endif>
<preamble; separator="\n">
switch (TokenStream.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
 <alt>
 break;}; separator="\n">
default:
 <error>
}
>>

LL1OptionalBlock(choice, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
switch (TokenStream.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
 <alt>
 break;}; separator="\n">
default:
 break;
}
>>

LL1OptionalBlockSingleAlt(choice, expr, alts,
 preamble, error, followExpr) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<preamble; separator="\n">
if (<expr>) {
 <alts; separator="\n">
}
<!else if ( !(<followExpr>) ) <error>!>
>>

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<preamble; separator="\n">
while (<loopExpr>) {
 <alts; separator="\n">
```

```
 State = <choice.loopBackStateNumber>;
 ErrorHandler.Sync(this);
 <iteration>
}
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
State = <choice.blockStartStateNumber>;<! alt block decision !>
ErrorHandler.Sync(this);
<preamble; separator="\n">
do {
 <alts; separator="\n">
 State = <choice.stateNumber>;<! loopback/exit decision !>
 ErrorHandler.Sync(this);
 <iteration>
} while ( <loopExpr> );
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<if(choice.label)><labelref(choice.label)> = TokenStream.LT(1);<endif>
<preamble;
 separator="\n">
switch ( Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context) ) {
<alts:{alt |
case <i>:
 <alt>
 break;}; separator="\n">
}
>>

OptionalBlock(choice, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
switch ( Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context) ) {
<alts:{alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n">
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
```

```
_alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
while ( _alt!=<choice.exitAlt> && _alt!=global::Antlr4.Runtime.Atn.ATN.INVALID_ALT_NUMBER ) {
 if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {
  <iteration>
  <alts> <! should only be one !>
 }
 State = <choice.loopBackStateNumber>;
 ErrorHandler.Sync(this);
 _alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
}
>>

PlusBlock(choice,
 alts, error) ::= <<
State = <choice.blockStartStateNumber>;<! alt block decision !>
ErrorHandler.Sync(this);
_alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
 switch (_alt) {
 <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n">
 default:
  <error>
 }
 State = <choice.loopBackStateNumber>;<! loopback/exit decision !>
 ErrorHandler.Sync(this);
 _alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
} while ( _alt!=<choice.exitAlt> && _alt!=global::Antlr4.Runtime.Atn.ATN.INVALID_ALT_NUMBER );
>>

Sync(s) ::= "Sync(<s.expecting.name>);"

ThrowNoViableAlt(t) ::= "throw new NoViableAltException(this);"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.tokens)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) &
 ~0x3f) == 0
>>

// produces smaller bytecode only when bits.tokens contains more than two items
```

```
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((1L \<\< <offsetShift(s.varName, bits.shift)>) &
<bits.calculated>L) != 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShift(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

bitsetInlineComparison(s, bits) ::= <%
<bits.tokens:{t | <s.varName>==<tokenType.(t.name)>}; separator=" || ">
%>

cases(tokens) ::= <<
<tokens:{t | case <tokenType.(t.name)>:}; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
State = <r.stateNumber>;
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif><r.escapedName>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprs
Chunks>);
>>

MatchToken(m) ::= <<
State = <m.stateNumber>;
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>Match(<tokenType.(m.name)>);
>>

MatchSet(m,
 expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
State = <m.stateNumber>;
<if(m.labels)><m.labels:{l | <labelref(l)> = }>TokenStream.LT(1);<endif>
<capture>
if ( <if(invert)><m.varName> \<= 0 || <else>!<endif>(<expr>) ) {
 <if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>ErrorHandler.RecoverInline(this);
}
else {
 ErrorHandler.ReportMatch(this);
```

```
   Consume();
}
>>

Wildcard(w) ::= <<
State = <w.stateNumber>;
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>MatchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
State = <p.stateNumber>;
if (!(<chunks>)) throw new FailedPredicateException(this, <p.predicate><if(failChunks)>,
<failChunks><elseif(p.msg)>, <p.msg><endif>);
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>)
 {
 <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "Skip();"
LexerMoreCommand()  ::= "More();"
LexerPopModeCommand() ::= "PopMode();"

LexerTypeCommand(arg, grammar)      ::= "_type = <tokenType.(arg)>;"
LexerChannelCommand(arg, grammar)   ::= "_channel = <channelName.(arg)>;"
LexerModeCommand(arg, grammar)      ::= "_mode = <modeName.(arg)>;"
LexerPushModeCommand(arg, grammar)  ::= "PushMode(<modeName.(arg)>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<a.escapedName>"
LocalRef(a) ::= "_localctx.<a.escapedName>"
RetValueRef(a) ::= "_localctx.<a.escapedName>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.escapedName>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<tokenType.(t.escapedName)>"
LabelRef(t) ::= "<ctx(t)>.<t.escapedName>"
```

```
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.escapedName)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.escapedName> = <rhsChunks>;"

TokenLabelType()
 ::= "<file.TokenLabelType; null={IToken}>"
InputSymbolType() ::= "<file.InputSymbolType; null={IToken}>"

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Text:null)"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Type:0)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Line:0)"
TokenPropertyRef_pos(t) ::=
"(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.CharPositionInLine:0)"
TokenPropertyRef_channel(t) ::=
"(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Channel:0)"
TokenPropertyRef_index(t) ::=
"(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.TokenIndex:0)"
TokenPropertyRef_int(t) ::=
"(<ctx(t)>.<tokenType.(t.label)>!=null?int.Parse(<ctx(t)>.<tokenType.(t.label)>.Text):0)"

RulePropertyRef_start(r) ::= "(<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.Start):null)"
RulePropertyRef_stop(r)
 ::= "(<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.Stop):null)"
RulePropertyRef_text(r)  ::=
"(<ctx(r)>.<r.label>!=null?TokenStream.GetText(<ctx(r)>.<r.label>.Start,<ctx(r)>.<r.label>.Stop):null)"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "this"

ThisRulePropertyRef_start(r) ::= "_localctx.Start"
ThisRulePropertyRef_stop(r)  ::= "_localctx.Stop"
ThisRulePropertyRef_text(r)  ::= "TokenStream.GetText(_localctx.Start, TokenStream.LT(-1))"
ThisRulePropertyRef_ctx(r)  ::= "_localctx"
ThisRulePropertyRef_parser(r)  ::= "this"

NonLocalAttrRef(s)   ::= <%((<s.ruleName;
format="cap">Context)GetInvokingContext(<s.ruleIndex>)).<s.escapedName>%>
SetNonLocalAttr(s, rhsChunks)   ::=
 <%((<s.ruleName; format="cap">Context)GetInvokingContext(<s.ruleIndex>)).<s.escapedName> =
<rhsChunks>;%>

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.Add(<labelref(a.label)>);"

TokenDecl(t) ::= "<TokenLabelType()> <tokenType.(t.escapedName)>"
TokenTypeDecl(t)
 ::= "int <tokenType.(t.escapedName)>;"
TokenListDecl(t) ::= "IList\<IToken> <tokenType.(t.escapedName)> = new List\<IToken>()"
RuleContextDecl(r) ::= "<r.ctxName> <r.escapedName>"
RuleContextListDecl(rdecl) ::= "IList\<<rdecl.ctxName>> <rdecl.escapedName> = new List\<<rdecl.ctxName>>()"
```

```
contextGetterCollection(elementType) ::= <%
<elementType>[]
%>

ContextTokenGetterDecl(t)      ::=
   "[System.Diagnostics.DebuggerNonUserCode] public ITerminalNode <tokenType.(t.name)>() { return
GetToken(<parser.name>.<tokenType.(t.name)>, 0); }"
ContextTokenListGetterDecl(t)  ::= <<
[System.Diagnostics.DebuggerNonUserCode] public <contextGetterCollection("ITerminalNode")>
<tokenType.(t.name)>() { return GetTokens(<parser.name>.<tokenType.(t.name)>); }
>>
ContextTokenListIndexedGetterDecl(t)  ::= <<
[System.Diagnostics.DebuggerNonUserCode] public ITerminalNode <tokenType.(t.name)>(int i) {
 return GetToken(<parser.name>.<tokenType.(t.name)>, i);
}
>>
ContextRuleGetterDecl(r)       ::= <<
[System.Diagnostics.DebuggerNonUserCode]
 public <r.ctxName> <r.escapedName>() {
 return GetRuleContext\<<r.ctxName>\>(0);
}
>>
ContextRuleListGetterDecl(r)   ::= <<
[System.Diagnostics.DebuggerNonUserCode] public <contextGetterCollection({<r.ctxName>})>
<r.escapedName>() {
 return GetRuleContexts\<<r.ctxName>\>();
}
>>
ContextRuleListIndexedGetterDecl(r)   ::= <<
[System.Diagnostics.DebuggerNonUserCode] public <r.ctxName> <r.escapedName>(int i) {
 return GetRuleContext\<<r.ctxName>\>(i);
}
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
* r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenType.(tokenName)>"
ImplicitRuleLabel(ruleName)   ::= "_<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)    ::= "_<label>"

CaptureNextToken(d) ::= "<d.varName> = TokenStream.LT(1);"
CaptureNextTokenType(d) ::= "<d.varName> = TokenStream.LA(1);"
```

```
StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,signatures,
        superClass={ParserRuleContext}) ::= <<
public partial class <struct.escapedName> :
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)>, <interfaces;
separator=", "><endif> {
 <attrs:{a | public <a>;}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 <if(ctorAttrs)>public <struct.escapedName>(ParserRuleContext parent, int invokingState) : base(parent,
invokingState) { }<endif>
 public <struct.escapedName>(ParserRuleContext parent, int invokingState<ctorAttrs:{a | , <a>}>)
  : base(parent, invokingState)
 {
  <struct.ctorAttrs:{a | this.<a.escapedName> = <a.escapedName>;}; separator="\n">
 }
 public override int RuleIndex { get { return RULE_<struct.derivedFromName>; } }
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
 public <struct.escapedName>() { }
 public virtual void CopyFrom(<struct.escapedName> context) {
  base.CopyFrom(context);
  <struct.attrs:{a
 | this.<a.escapedName> = context.<a.escapedName>;}; separator="\n">
 }
<endif>
 <dispatchMethods; separator="\n">
 <extensionMembers; separator="\n">
}
>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
public partial class <struct.escapedName> : <currentRule.name; format="cap">Context {
 <attrs:{a | public <a>;}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 public <struct.escapedName>(<currentRule.name; format="cap">Context context) { CopyFrom(context); }
 <dispatchMethods; separator="\n">
}
>>

ListenerDispatchMethod(method) ::= <<
[System.Diagnostics.DebuggerNonUserCode]
public override void <if(method.isEnter)>Enter<else>Exit<endif>Rule(IParseTreeListener listener) {
 I<parser.grammarName>Listener typedListener = listener as I<parser.grammarName>Listener;
 if (typedListener != null) typedListener.<if(method.isEnter)>Enter<else>Exit<endif><struct.derivedFromName;
format="cap">(this);
}
>>

VisitorDispatchMethod(method) ::= <<
```

```
[System.Diagnostics.DebuggerNonUserCode]
public
 override TResult Accept\<TResult>(IParseTreeVisitor\<TResult> visitor) {
 I<parser.grammarName>Visitor\<TResult> typedVisitor = visitor as I<parser.grammarName>Visitor\<TResult>;
 if (typedVisitor != null) return typedVisitor.Visit<struct.derivedFromName; format="cap">(this);
 else return visitor.VisitChildren(this);
}
>>

AttributeDecl(d) ::= "<d.type> <d.escapedName><if(d.initValue)> = <d.initValue><endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)><typedContext(x.ctx)>.<endif><x.escapedName>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "<typedContext(actionChunk.ctx)>"

// only casts _localctx to the type when the cast isn't redundant (i.e. to a sub-context for a labeled alt)
typedContext(ctx) ::= "<if(ctx.provideCopyFrom)>((<ctx.name>)_localctx)<else>_localctx<endif>"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)
  ::= "Precpred(Context, <opPrec>)"
recRuleSetReturnAction(src,name)   ::= "$<name>=$<src>.<name>;"
recRuleSetStopToken()              ::= "Context.Stop = TokenStream.LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
_localctx = new <ctxName>Context(_parentctx, _parentState);
<if(label)>
<if(isListLabel)>
_localctx.<label>.Add(_prevctx);
<else>
_localctx.<label> = _prevctx;
<endif>
<endif>
PushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
_localctx = new <currentAltLabel; format="cap">Context(new <ruleName; format="cap">Context(_parentctx,
_parentState));
<if(label)>
<if(isListLabel)>
((<currentAltLabel; format="cap">Context)_localctx).<label>.Add(_prevctx);
<else>
((<currentAltLabel; format="cap">Context)_localctx).<label> = _prevctx;
<endif>
<endif>
```

```
PushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName)
 ::= <<
_localctx = new <ctxName>Context(_localctx);
Context = _localctx;
_prevctx = _localctx;
>>

recRuleSetPrevCtx() ::= <<
if ( ParseListeners!=null )
 TriggerExitRuleEvent();
_prevctx = _localctx;
>>


LexerFile(file, lexer, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<namedActions.header>
using System;
using System.IO;
using System.Text;
using Antlr4.Runtime;
using Antlr4.Runtime.Atn;
using Antlr4.Runtime.Misc;
using DFA = Antlr4.Runtime.Dfa.DFA;

<lexer>
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <lexer.name> : <superClass; null="Lexer"> {
 protected static DFA[] decisionToDFA;
 protected static PredictionContextCache sharedContextCache = new PredictionContextCache();
 <if(lexer.tokens)>
 public
 const int
  <lexer.tokens:{k | <tokenType.(k)>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
 <endif>
```

```
<if(lexer.escapedChannels)>
public const int
 <lexer.escapedChannels:{k | <k>=<lexer.escapedChannels.(k)>}; separator=", ", wrap, anchor>;
<endif>
<if(rest(lexer.escapedModeNames))>
public const int
 <rest(lexer.escapedModeNames):{m | <m>=<i>}; separator=", ", wrap, anchor>;
<endif>
public static string[] channelNames = {
 "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channelNames)>, <lexer.channelNames:{c| "<c>"};
separator=", ", wrap, anchor><endif>
};

public static string[] modeNames = {
 <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor>
};

public static readonly string[] ruleNames = {
 <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
};

<namedActions.members>

public <lexer.name>(ICharStream input)
: this(input, Console.Out, Console.Error) { }

public <lexer.name>(ICharStream input, TextWriter output, TextWriter errorOutput)
:
base(input, output, errorOutput)
{
 Interpreter = new LexerATNSimulator(this, _ATN, decisionToDFA, sharedContextCache);
}

<vocabulary(lexer.literalNames, lexer.symbolicNames)>

public override string GrammarFileName { get { return "<lexer.grammarFileName>"; } }

public override string[] RuleNames { get { return ruleNames; } }

public override string[] ChannelNames { get { return channelNames; } }

public override string[] ModeNames { get { return modeNames; } }

public override int[] SerializedAtn { get { return _serializedATN; } }

static <lexer.name>() {
 decisionToDFA = new DFA[_ATN.NumberOfDecisions];
 for (int i = 0; i \< _ATN.NumberOfDecisions; i++) {
```

```
   decisionToDFA[i] = new DFA(_ATN.GetDecisionState(i), i);
  }
 }
 <dumpActions(lexer, "", actionFuncs, sempredFuncs)>
 <atn>
}
>>

SerializedATN(model) ::= <<
private static int[] _serializedATN = {
 <model.serialized: {s | <s>}; separator=",", wrap>
};

public static readonly ATN _ATN =
 new ATNDeserializer().Deserialize(_serializedATN);


>>

initValue(typeName)
 ::= <<
default(<typeName>)
>>

codeFileExtension() ::= ".cs"

modeName ::= [
 "DEFAULT_MODE" : "DefaultMode",
 default : key
]

channelName ::= [
 "HIDDEN" : "Hidden",
 "DEFAULT_TOKEN_CHANNEL" : "DefaultTokenChannel",
 default : key
]

tokenType ::= [
 "EOF" : "Eof",
 default : key
]
```

Found in path(s):
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/codegen/CSharp/CSharp.stg
No license file was found, but licenses were detected in source scan.

```
/*
```

* Copyright (c) 2012-2017 The ANTLR Project. All rights reserved.
* Use of this file is governed by the BSD 3-clause license that
* can be found in the LICENSE.txt file in the project root.
*/

Found in path(s):
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/semantics/SemanticPipeline.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextRuleGetterDecl.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/semantics/RuleCollector.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/StarBlock.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/analysis/LeftRecursiveRuleTransformer.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextTokenGetterDecl.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenRef.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/gui/TestRig.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/MatchNotSet.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/GrammarASTAdaptor.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/RuleElementAST.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/analysis/LeftRecursionDetector.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/target/DartTarget.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/gui/TreePostScriptGenerator.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/semantics/ActionSniffer.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/GrammarSyntaxMessage.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/AttributeDict.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/gui/SystemFontMetrics.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/DefaultOutputModelFactory.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/LeftRecursiveRuleFunction.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-

jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_stop.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/Loop.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/Lexer.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/gui/TreeLayoutAdaptor.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/automata/ATNPrinter.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/automata/TailEpsilonRemover.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/AddToLabelList.java
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* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/TokenDecl.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/UnicodeEscapes.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_channel.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ErrorSeverity.java
*

/opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ToolMessage.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/ResyncToEndOfRuleBlock.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/OutputModelFactory.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/Tool.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/target/Python2Target.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/LabelType.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/QuantifierAST.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/StructDecl.java
*
/opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/GrammarASTErrorNode.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/TokenVocabParser.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/LL1AltBlock.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/PlusBlockAST.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/AltAST.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_line.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/TerminalAST.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/automata/ParserATNFactory.java
*
/opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/RangeAST.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/QRetValueRef.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/ParserFactory.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/VisitorFile.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/Choice.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/analysis/LeftRecursiveRuleAnalyzer.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/LL1OptionalBlock.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-

jar/org/antlr/v4/codegen/model/MatchSet.java
*
/opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-
jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_text.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-
jar/org/antlr/v4/codegen/model/decl/ContextTokenListGetterDecl.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-
jar/org/antlr/v4/codegen/model/decl/RuleContextDecl.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-
jar/org/antlr/v4/tool/GrammarParserInterpreter.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-
jar/org/antlr/v4/codegen/model/chunk/ListLabelRef.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-
jar/org/antlr/v4/codegen/ActionTranslator.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-
jar/org/antlr/v4/codegen/model/CodeBlockForOuterMostAlt.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-
jar/org/antlr/v4/codegen/model/RuleActionFunction.java
*
/opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-
jar/org/antlr/v4/automata/ATNOptimizer.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-
jar/org/antlr/v4/codegen/model/Action.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/misc/Utils.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-
jar/org/antlr/v4/tool/ErrorManager.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-
jar/org/antlr/v4/codegen/model/RuleSempredFunction.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-
jar/org/antlr/v4/codegen/model/RuleFunction.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-
jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-
jar/org/antlr/v4/tool/ast/GrammarAST.java
*
/opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-
jar/org/antlr/v4/codegen/model/ModelElement.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-
jar/org/antlr/v4/codegen/model/LL1PlusBlockSingleAlt.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-
jar/org/antlr/v4/codegen/model/AltBlock.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-
jar/org/antlr/v4/codegen/model/dbg.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-
jar/org/antlr/v4/codegen/model/LL1StarBlockSingleAlt.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-
jar/org/antlr/v4/codegen/model/SerializedATN.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-

jar/org/antlr/v4/semantics/AttributeChecks.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/TestSetInline.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/misc/FrequencySet.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/ToolANTLRLexer.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_int.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/ElementFrequenciesVisitor.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/Alternative.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/ArgRef.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/Parser.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/LabelElementPair.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/BlankOutputModelFactory.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/LL1Choice.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/LeftRecursionCyclesMessage.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/automata/ATNFactory.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/gui/TreeTextProvider.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/LabeledOp.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_start.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_text.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/GrammarToken.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/AltLabelStructDecl.java
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/OutputModelController.java
No license file was found, but licenses were detected in source scan.

/*
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```
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*/

javaTypeInitMap ::= [
 "int":"0",
 "long":"0",
 "float":"0.0f",
 "double":"0.0",
 "boolean":"false",
 "byte":"0",
 "short":"0",
 "char":"0",
 default:"null" // anything other than a primitive type is an object
]

// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName,
 file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
```

```
<endif>
<namedActions.header>
import org.antlr.v4.runtime.atn.*;
import org.antlr.v4.runtime.dfa.DFA;
import org.antlr.v4.runtime.*;
import org.antlr.v4.runtime.misc.*;
import org.antlr.v4.runtime.tree.*;
import java.util.List;
import java.util.Iterator;
import java.util.ArrayList;

<parser>
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.tree.ParseTreeListener;

/**
* This interface defines a complete listener for a parse tree produced by
* {@link <file.parserName>}.
*/
public interface <file.grammarName>Listener extends ParseTreeListener {
 <file.listenerNames:{lname |
/**
<if(file.listenerLabelRuleNames.(lname))>
* Enter a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.listenerLabelRuleNames.(lname)>\}.
<else>
 * Enter a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
* @param ctx the parse tree
*/
void enter<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx);
/**
<if(file.listenerLabelRuleNames.(lname))>
* Exit a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.listenerLabelRuleNames.(lname)>\}.
<else>
* Exit a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
* @param ctx the parse tree
*/
void exit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx);}; separator="\n">
```

```
}
>>

BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>

import org.antlr.v4.runtime.ParserRuleContext;
import org.antlr.v4.runtime.tree.ErrorNode;
import org.antlr.v4.runtime.tree.TerminalNode;

/**
* This class provides an empty implementation of {@link <file.grammarName>Listener},
 * which can be extended to create a listener which only needs to handle a subset
* of the available methods.
*/
@SuppressWarnings("CheckReturnValue")
public class <file.grammarName>BaseListener implements <file.grammarName>Listener {
 <file.listenerNames:{lname |
/**
* {@inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
@Override public void enter<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx) { \}
/**
* {@inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
@Override public void exit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx) { \}};
separator="\n">

 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 @Override public void enterEveryRule(ParserRuleContext ctx) { }
 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 @Override public void exitEveryRule(ParserRuleContext ctx) { }
```

```
 /**
  *
 {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 @Override public void visitTerminal(TerminalNode node) { }
 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 @Override public void visitErrorNode(ErrorNode node) { }
}
>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.tree.ParseTreeVisitor;

/**
* This interface defines a complete generic visitor for a parse tree produced
* by {@link <file.parserName>}.
*
* @param \<T> The return type of the visit operation. Use {@link Void} for
* operations with no return type.
*/
public interface <file.grammarName>Visitor\<T> extends ParseTreeVisitor\<T> {
 <file.visitorNames:{lname |
/**
<if(file.visitorLabelRuleNames.(lname))>
* Visit a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.visitorLabelRuleNames.(lname)>\}.
<else>
 * Visit a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
* @param ctx the parse tree
* @return the visitor result
*/
T visit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx);}; separator="\n">
}
>>

BaseVisitorFile(file, header, namedActions) ::= <<
```

```
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.tree.AbstractParseTreeVisitor;

/**
* This class provides an empty implementation of {@link <file.grammarName>Visitor},
* which can be extended to create a visitor which only needs to handle a subset
* of the available methods.
*
* @param \<T> The return type of the visit operation. Use {@link Void} for
* operations with no return type.
*/
@SuppressWarnings("CheckReturnValue")
public class <file.grammarName>BaseVisitor\<T> extends AbstractParseTreeVisitor\<T> implements
<file.grammarName>Visitor\<T>
 {
 <file.visitorNames:{lname |
/**
* {@inheritDoc\}
*
* \<p>The default implementation returns the result of calling
* {@link #visitChildren\} on {@code ctx\}.\</p>
*/
@Override public T visit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx) { return
visitChildren(ctx); \}}; separator="\n">
}
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName> by ANTLR <ANTLRVersion>
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast", "CheckReturnValue"})
public class <parser.name> extends <superClass; null="Parser"> {
 static { RuntimeMetaData.checkVersion("<file.ANTLRVersion>", RuntimeMetaData.VERSION); }

 protected static final DFA[] _decisionToDFA;
 protected static final PredictionContextCache _sharedContextCache =
  new PredictionContextCache();
 <if(parser.tokens)>
```

```
 public
 static final int
  <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator=", ", wrap, anchor>;
 <endif>
 <if(parser.rules)>
 public static final int
  <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
 <endif>
 private static String[] makeRuleNames() {
  return new String[] {
   <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
  };
 }
 public static final String[] ruleNames = makeRuleNames();

 <vocabulary(parser.literalNames, parser.symbolicNames)>

 @Override
 public String getGrammarFileName() { return "<parser.grammarFileName>"; }

 @Override
 public String[] getRuleNames() { return ruleNames; }

 @Override
 public String getSerializedATN() { return _serializedATN; }

 @Override
 public ATN getATN() { return _ATN; }

 <namedActions.members>
 <parser:(ctor)()>
 <funcs; separator="\n">

<if(sempredFuncs)>
 public boolean sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
  switch (ruleIndex) {
   <parser.sempredFuncs.values:{f|
case
 <f.ruleIndex>:
 return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">
  }
  return true;
 }
 <sempredFuncs.values; separator="\n">
<endif>

 <atn>
}
```

```
>>

vocabulary(literalNames, symbolicNames) ::= <<
private static String[] makeLiteralNames() {
 return new String[] {
  <literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
 };
}
private static final String[] _LITERAL_NAMES = makeLiteralNames();
private static String[] makeSymbolicNames() {
 return new String[] {
  <symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
 };
}
private static final String[] _SYMBOLIC_NAMES = makeSymbolicNames();
public static final Vocabulary VOCABULARY = new VocabularyImpl(_LITERAL_NAMES,
_SYMBOLIC_NAMES);

/**
* @deprecated Use {@link #VOCABULARY} instead.
*/
@Deprecated
public static final String[] tokenNames;
static {
 tokenNames = new String[_SYMBOLIC_NAMES.length];
 for (int i = 0; i \< tokenNames.length; i++) {
  tokenNames[i]
 = VOCABULARY.getLiteralName(i);
  if (tokenNames[i] == null) {
   tokenNames[i] = VOCABULARY.getSymbolicName(i);
  }

  if (tokenNames[i] == null) {
   tokenNames[i] = "\<INVALID>";
  }
 }
}

@Override
@Deprecated
public String[] getTokenNames() {
 return tokenNames;
}

@Override

public Vocabulary getVocabulary() {
 return VOCABULARY;
```

```
}
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
@Override
public void action(RuleContext _localctx, int ruleIndex, int actionIndex) {
 switch (ruleIndex) {
 <recog.actionFuncs.values:{f|
case <f.ruleIndex>:
 <f.name>_action((<f.ctxType>)_localctx, actionIndex);
 break;}; separator="\n">
 }
}
<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
@Override
public boolean sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
 switch (ruleIndex) {
 <recog.sempredFuncs.values:{f|
case <f.ruleIndex>:
 return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">
 }
 return
 true;
}
<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(p) ::= <<
public <p.name>(TokenStream input) {
 super(input);
 _interp = new ParserATNSimulator(this,_ATN,_decisionToDFA,_sharedContextCache);
}
>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
private void <r.name>_action(<r.ctxType> _localctx, int actionIndex) {
 switch (actionIndex) {
 <actions:{index|
case <index>:
 <actions.(index)>
 break;}; separator="\n">
```

```
 }
}
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
private boolean <r.name>_sempred(<r.ctxType> _localctx, int predIndex) {
 switch (predIndex) {
 <actions:{index|
case <index>:
 return <actions.(index)>;}; separator="\n">
 }
 return true;
}
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
 ::= <<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public final <endif><currentRule.ctxType>
<currentRule.escapedName>(<args; separator=",">) throws RecognitionException {
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(_ctx, getState()<currentRule.args:{a | ,
<a.escapedName>}>);
 enterRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>);
 <namedActions.init>
 <locals; separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 }
 <if(exceptions)>
 <exceptions; separator="\n">
 <else>
 catch (RecognitionException re) {
  _localctx.exception = re;
  _errHandler.reportError(this, re);
  _errHandler.recover(this, re);
 }
 <endif>
```

```
 finally {
  <finallyAction>
  exitRule();
 }
 return _localctx;
}
>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
 namedActions,finallyAction,postamble)
 ::=
<<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public final <endif><currentRule.ctxType>
<currentRule.escapedName>(<args; separator=", ">) throws RecognitionException {
 return <currentRule.escapedName>(0<currentRule.args:{a | , <a.escapedName>}>);
}

private <currentRule.ctxType> <currentRule.escapedName>(int _p<args:{a | , <a>}>) throws RecognitionException
{
 ParserRuleContext _parentctx = _ctx;
 int _parentState = getState();
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(_ctx, _parentState<currentRule.args:{a | ,
<a.escapedName>}>);
 <currentRule.ctxType> _prevctx = _localctx;
 int _startState = <currentRule.startState>;
 enterRecursionRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>, _p);
 <namedActions.init>
 <locals; separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
  int
 _alt;
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 }
 catch (RecognitionException re) {
  _localctx.exception = re;
  _errHandler.reportError(this, re);
  _errHandler.recover(this, re);
 }
 finally {
  <finallyAction>
```

```
  unrollRecursionContexts(_parentctx);
 }
 return _localctx;
}
>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx = new <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(_localctx);<endif>
enterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
{
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
}
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = _input.LT(1);<endif>
<preamble;
 separator="\n">
switch (_input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
 <alt>
 break;}; separator="\n">
default:
 <error>
}
>>

LL1OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
switch (_input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
 <alt>
 break;}; separator="\n">
default:
 break;
}
>>
```

```
LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
<preamble; separator="\n">
if (<expr>) {
 <alts; separator="\n">
}
<!else if ( !(<followExpr>) ) <error>!>
>>

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
<preamble; separator="\n">
while (<loopExpr>) {
 <alts; separator="\n">
 setState(<choice.loopBackStateNumber>);
 _errHandler.sync(this);
 <iteration>
}
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration)
 ::= <<
setState(<choice.blockStartStateNumber>); <! alt block decision !>
_errHandler.sync(this);
<preamble; separator="\n">
do {
 <alts; separator="\n">
 setState(<choice.stateNumber>); <! loopback/exit decision !>
 _errHandler.sync(this);
 <iteration>
} while ( <loopExpr> );
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = _input.LT(1);<endif>
<preamble; separator="\n">
switch ( getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx) ) {
<alts:{alt |
case <i>:
 <alt>
 break;}; separator="\n">
}
```

```
>>

OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
switch ( getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx) ) {
<alts:{alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n">
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
_alt
 = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
while ( _alt!=<choice.exitAlt> && _alt!=org.antlr.v4.runtime.atn.ATN.INVALID_ALT_NUMBER ) {
 if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {
  <iteration>
  <alts> <! should only be one !>
 }
 setState(<choice.loopBackStateNumber>);
 _errHandler.sync(this);
 _alt = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
}
>>

PlusBlock(choice, alts, error) ::= <<
setState(<choice.blockStartStateNumber>); <! alt block decision !>
_errHandler.sync(this);
_alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
 switch (_alt) {
 <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n">
 default:
  <error>
 }
 setState(<choice.loopBackStateNumber>); <! loopback/exit decision !>
 _errHandler.sync(this);
 _alt = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
} while ( _alt!=<choice.exitAlt> && _alt!=org.antlr.v4.runtime.atn.ATN.INVALID_ALT_NUMBER );
>>
```

```
Sync(s)
 ::= "sync(<s.expecting.name>);"

ThrowNoViableAlt(t) ::= "throw new NoViableAltException(this);"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.tokens)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((1L \<\< <offsetShift(s.varName, bits.shift)>) &
<bits.calculated>L) != 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShift(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

bitsetInlineComparison(s, bits) ::= <%
<bits.tokens:{t | <s.varName>==<t.name>}; separator=" || ">
%>

cases(tokens) ::= <<
<tokens:{t | case <t.name>:}; separator="\n">
>>

InvokeRule(r, argExprsChunks)
 ::= <<
setState(<r.stateNumber>);
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif><r.escapedName>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprs
Chunks>);
>>

MatchToken(m) ::= <<
setState(<m.stateNumber>);
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>match(<m.escapedName>);
```

```
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
setState(<m.stateNumber>);
<if(m.labels)><m.labels:{l | <labelref(l)> = }>_input.LT(1);<endif>
<capture>
if ( <if(invert)><m.varName> \<= 0 || <else>!<endif>(<expr>) ) {
 <if(m.labels)><m.labels:{l | <labelref(l)> = (Token)}><endif>_errHandler.recoverInline(this);
}
else {
 if ( _input.LA(1)==Token.EOF ) matchedEOF = true;
 _errHandler.reportMatch(this);
 consume();
}
>>

Wildcard(w) ::= <<
setState(<w.stateNumber>);
<if(w.labels)><w.labels:{l | <labelref(l)> =
 }><endif>matchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
setState(<p.stateNumber>);
if (!(<chunks>)) throw new FailedPredicateException(this, <p.predicate><if(failChunks)>,
<failChunks><elseif(p.msg)>, <p.msg><endif>);
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
 <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "skip();"
LexerMoreCommand()  ::= "more();"
```

```
LexerPopModeCommand() ::= "popMode();"

LexerTypeCommand(arg, grammar)      ::= "_type = <arg>;"
LexerChannelCommand(arg, grammar)   ::= "_channel = <arg>;"
LexerModeCommand(arg, grammar)      ::= "_mode = <arg>;"
LexerPushModeCommand(arg, grammar)  ::= "pushMode(<arg>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<a.escapedName>"
LocalRef(a) ::= "_localctx.<a.escapedName>"
RetValueRef(a) ::= "_localctx.<a.escapedName>"
QRetValueRef(a)
 ::= "<ctx(a)>.<a.dict>.<a.escapedName>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.escapedName>"
LabelRef(t) ::= "<ctx(t)>.<t.escapedName>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.escapedName)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.escapedName> = <rhsChunks>;"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getText():null)"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getType():0)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getLine():0)"
TokenPropertyRef_pos(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getCharPositionInLine():0)"
TokenPropertyRef_channel(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getChannel():0)"
TokenPropertyRef_index(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getTokenIndex():0)"
TokenPropertyRef_int(t)
 ::= "(<ctx(t)>.<t.label>!=null?Integer.valueOf(<ctx(t)>.<t.label>.getText()):0)"

RulePropertyRef_start(r) ::= "(<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.start):null)"
RulePropertyRef_stop(r)  ::= "(<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.stop):null)"
RulePropertyRef_text(r)  ::=
"(<ctx(r)>.<r.label>!=null?_input.getText(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop):null)"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "this"

ThisRulePropertyRef_start(r) ::= "_localctx.start"
ThisRulePropertyRef_stop(r)  ::= "_localctx.stop"
ThisRulePropertyRef_text(r)  ::= "_input.getText(_localctx.start, _input.LT(-1))"
ThisRulePropertyRef_ctx(r)  ::= "_localctx"
ThisRulePropertyRef_parser(r)  ::= "this"

NonLocalAttrRef(s)   ::= "((<s.ruleName;
format=\"cap\">Context)getInvokingContext(<s.ruleIndex>)).<s.escapedName>"
SetNonLocalAttr(s, rhsChunks)   ::=
```

```
 "((<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>)).<s.escapedName>
 = <rhsChunks>;"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.add(<labelref(a.label)>);"

TokenDecl(t) ::= "<TokenLabelType()> <t.escapedName>"
TokenTypeDecl(t) ::= "int <t.escapedName>;"
TokenListDecl(t) ::= "List\<Token> <t.escapedName> = new ArrayList\<Token>()"
RuleContextDecl(r) ::= "<r.ctxName> <r.escapedName>"
RuleContextListDecl(rdecl) ::= "List\<<rdecl.ctxName>> <rdecl.escapedName> = new
ArrayList\<<rdecl.ctxName>>()"

ContextTokenGetterDecl(t)      ::=
   "public TerminalNode <t.name>() { return getToken(<parser.name>.<t.name>, 0); }"
ContextTokenListGetterDecl(t)  ::=
   "public List\<TerminalNode> <t.name>() { return getTokens(<parser.name>.<t.name>); }"
ContextTokenListIndexedGetterDecl(t)  ::= <<
public TerminalNode <t.name>(int i) {
 return getToken(<parser.name>.<t.name>, i);
}
>>
ContextRuleGetterDecl(r)       ::= <<
public <r.ctxName> <r.escapedName>() {
 return getRuleContext(<r.ctxName>.class,0);
}
>>
ContextRuleListGetterDecl(r)   ::= <<
public
 List\<<r.ctxName>\> <r.escapedName>() {
 return getRuleContexts(<r.ctxName>.class);
}
>>
ContextRuleListIndexedGetterDecl(r)   ::= <<
public <r.ctxName> <r.escapedName>(int i) {
 return getRuleContext(<r.ctxName>.class,i);
}
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
* r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "<tokenName>"
ImplicitRuleLabel(ruleName)   ::= "<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
```

```
ListLabelName(label)    ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = _input.LT(1);"
CaptureNextTokenType(d) ::= "<d.varName> = _input.LA(1);"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,signatures)
 ::= <<
@SuppressWarnings("CheckReturnValue")
public static class <struct.escapedName> extends
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)> implements
<interfaces; separator=",
 "><endif> {
 <attrs:{a | public <a>;}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 <if(ctorAttrs)>public <struct.escapedName>(ParserRuleContext parent, int invokingState) { super(parent,
invokingState); }<endif>
 public <struct.escapedName>(ParserRuleContext parent, int invokingState<ctorAttrs:{a | , <a>}>) {
  super(parent, invokingState);
  <struct.ctorAttrs:{a | this.<a.escapedName> = <a.escapedName>;}; separator="\n">
 }
 @Override public int getRuleIndex() { return RULE_<struct.derivedFromName>; }
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
 public <struct.escapedName>() { }
 public void copyFrom(<struct.escapedName> ctx) {
  super.copyFrom(ctx);
  <struct.attrs:{a | this.<a.escapedName> = ctx.<a.escapedName>;}; separator="\n">
 }
<endif>
 <dispatchMethods; separator="\n">
 <extensionMembers; separator="\n">
}
>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
@SuppressWarnings("CheckReturnValue")
public static class
 <struct.escapedName> extends <currentRule.name; format="cap">Context {
 <attrs:{a | public <a>;}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 public <struct.escapedName>(<currentRule.name; format="cap">Context ctx) { copyFrom(ctx); }
 <dispatchMethods; separator="\n">
}
>>

ListenerDispatchMethod(method) ::= <<
@Override
public void <if(method.isEnter)>enter<else>exit<endif>Rule(ParseTreeListener listener) {
 if ( listener instanceof <parser.grammarName>Listener )
```

```
((<parser.grammarName>Listener)listener).<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName;
format="cap">(this);
}
>>

VisitorDispatchMethod(method) ::= <<
@Override
public \<T> T accept(ParseTreeVisitor\<? extends T> visitor) {
 if ( visitor instanceof <parser.grammarName>Visitor ) return ((<parser.grammarName>Visitor\<? extends
T>)visitor).visit<struct.derivedFromName; format="cap">(this);
 else return visitor.visitChildren(this);
}
>>

AttributeDecl(d) ::= "<d.type> <d.escapedName><if(d.initValue)>
 = <d.initValue><endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>((<x.ctx.name>)_localctx).<endif><x.escapedName>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "((<actionChunk.ctx.name>)_localctx)"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)  ::= "precpred(_ctx, <opPrec>)"
recRuleSetReturnAction(src,name)   ::= "$<name>=$<src>.<name>;"
recRuleSetStopToken()                ::= "_ctx.stop = _input.LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
_localctx = new <ctxName>Context(_parentctx, _parentState);
<if(label)>
<if(isListLabel)>
_localctx.<label>.add(_prevctx);
<else>
_localctx.<label> = _prevctx;
<endif>
<endif>
pushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
_localctx = new <currentAltLabel; format="cap">Context(new
 <ruleName; format="cap">Context(_parentctx, _parentState));
<if(label)>
<if(isListLabel)>
((<currentAltLabel; format="cap">Context)_localctx).<label>.add(_prevctx);
<else>
((<currentAltLabel; format="cap">Context)_localctx).<label> = _prevctx;
```

```
<endif>
<endif>
pushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName) ::= <<
_localctx = new <ctxName>Context(_localctx);
_ctx = _localctx;
_prevctx = _localctx;
>>

recRuleSetPrevCtx() ::= <<
if ( _parseListeners!=null ) triggerExitRuleEvent();
_prevctx = _localctx;
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
<if(lexerFile.genPackage)>
package <lexerFile.genPackage>;
<endif>
<namedActions.header>
import org.antlr.v4.runtime.Lexer;
import org.antlr.v4.runtime.CharStream;
import org.antlr.v4.runtime.Token;
import org.antlr.v4.runtime.TokenStream;
import org.antlr.v4.runtime.*;
import org.antlr.v4.runtime.atn.*;
import
 org.antlr.v4.runtime.dfa.DFA;
import org.antlr.v4.runtime.misc.*;

<lexer>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast", "CheckReturnValue"})
public class <lexer.name> extends <superClass; null="Lexer"> {
 static { RuntimeMetaData.checkVersion("<lexerFile.ANTLRVersion>", RuntimeMetaData.VERSION); }

 protected static final DFA[] _decisionToDFA;
 protected static final PredictionContextCache _sharedContextCache =
  new PredictionContextCache();
 <if(lexer.tokens)>
 public static final int
  <lexer.tokens:{k | <k>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
 <endif>
```

```
<if(lexer.escapedChannels)>
public static final int
 <lexer.escapedChannels:{c | <c>=<lexer.escapedChannels.(c)>}; separator=", ", wrap, anchor>;
<endif>
<if(rest(lexer.escapedModeNames))>
public static final int
 <rest(lexer.escapedModeNames):{m | <m>=<i>}; separator=", ", wrap, anchor>;
<endif>
public static String[]
channelNames = {
 "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channelNames)>, <lexer.channelNames:{c| "<c>"};
separator=", ", wrap, anchor><endif>
};

public static String[] modeNames = {
 <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor>
};

private static String[] makeRuleNames() {
 return new String[] {
  <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
 };
}
public static final String[] ruleNames = makeRuleNames();

<vocabulary(lexer.literalNames, lexer.symbolicNames)>

<namedActions.members>

public <lexer.name>(CharStream input) {
 super(input);
 _interp = new LexerATNSimulator(this,_ATN,_decisionToDFA,_sharedContextCache);
}

@Override
public String getGrammarFileName() { return "<lexer.grammarFileName>"; }

@Override
public String[] getRuleNames() { return ruleNames; }

@Override
public String getSerializedATN() { return _serializedATN; }

@Override
public String[] getChannelNames() { return channelNames; }

@Override
public String[] getModeNames()
```

```
 { return modeNames; }

 @Override
 public ATN getATN() { return _ATN; }

 <dumpActions(lexer, "", actionFuncs, sempredFuncs)>
 <atn>
}
>>

SerializedJavaATN(model) ::= <<
<if(rest(model.segments))>
<! requires segmented representation !>
<model.segments:{segment|private static final String _serializedATNSegment<i0> =
 "<segment; wrap={"+<\n><\t>"}>";}; separator="\n">
public static final String _serializedATN = Utils.join(
 new String[] {
  <model.segments:{segment | _serializedATNSegment<i0>}; separator=",\n">
 },
 ""
);
<else>
<! only one segment, can be inlined !>
public static final String _serializedATN =
 "<model.serialized; wrap={"+<\n><\t>"}>";
<endif>
public static final ATN _ATN =
 new ATNDeserializer().deserialize(_serializedATN.toCharArray());
static {
 _decisionToDFA = new DFA[_ATN.getNumberOfDecisions()];
 for (int i = 0; i \< _ATN.getNumberOfDecisions(); i++) {
  _decisionToDFA[i] = new DFA(_ATN.getDecisionState(i), i);
 }
<! org.antlr.v4.tool.DOTGenerator
 dot = new org.antlr.v4.tool.DOTGenerator(null);!>
<! System.out.println(dot.getDOT(_ATN.decisionToState.get(0), ruleNames, false));!>
<! System.out.println(dot.getDOT(_ATN.ruleToStartState[2], ruleNames, false));!>
}
>>

/** Using a type to init value map, try to init a type; if not in table
* must be an object, default value is "null".
*/
initValue(typeName) ::= <<
<javaTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".java"
```

Found in path(s):
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/codegen/Java/Java.stg
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* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/ANTLRParser.g
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*/

/** ANTLR tool checks output templates are compatible with tool code generation.
*  For now, a simple string match used on x.y of x.y.z scheme.
*  Must match Tool.VERSION during load to templates.
*
*  REQUIRED.
*/

javascriptTypeInitMap ::= [
 "bool":"false",
 "int":"0",
 "float":"0.0",
 "str":"",
 default:"{}" // anything
 other than a primitive type is an object
]

// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
import antlr4 from 'antlr4';
<if(file.genListener)>
import <file.grammarName>Listener from './<file.grammarName>Listener.js';
<endif>
<if(file.genVisitor)>
import <file.grammarName>Visitor from './<file.grammarName>Visitor.js';
<endif>
```

```
<namedActions.header>
<parser>
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
import antlr4 from 'antlr4';

// This class defines a complete listener for a parse tree produced by <file.parserName>.
export default class <file.grammarName>Listener extends antlr4.tree.ParseTreeListener {

<file.listenerNames:{lname |
 // Enter a parse tree produced by <file.parserName>#<lname>.
 enter<lname; format="cap">(ctx) {
 \}

 // Exit a parse tree produced by <file.parserName>#<lname>.
 exit<lname;
 format="cap">(ctx) {
 \}

}; separator="\n">

}
>>


VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
import antlr4 from 'antlr4';

// This class defines a complete generic visitor for a parse tree produced by <file.parserName>.

export default class <file.grammarName>Visitor extends antlr4.tree.ParseTreeVisitor {

<file.visitorNames:{lname |
 // Visit a parse tree produced by <file.parserName>#<lname>.
 visit<lname; format="cap">(ctx) {
   return this.visitChildren(ctx);
 \}

}; separator="\n">

}
>>
```

```
fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName> by ANTLR <ANTLRVersion>
// jshint ignore: start
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<if(superClass)>
import <superClass> from './<superClass>.js';
<endif>

<atn>

const atn = new antlr4.atn.ATNDeserializer().deserialize(serializedATN);

const decisionsToDFA = atn.decisionToState.map( (ds, index) => new antlr4.dfa.DFA(ds,
 index) );

const sharedContextCache = new antlr4.atn.PredictionContextCache();

export default class <parser.name> extends <superClass; null="antlr4.Parser"> {

  static grammarFileName = "<parser.grammarFileName>";
  static literalNames = [ <parser.literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];
  static symbolicNames = [ <parser.symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];
  static ruleNames = [ <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ];

  constructor(input) {
     super(input);
     this._interp = new antlr4.atn.ParserATNSimulator(this, atn, decisionsToDFA, sharedContextCache);
     this.ruleNames = <parser.name>.ruleNames;
     this.literalNames = <parser.name>.literalNames;
     this.symbolicNames = <parser.name>.symbolicNames;
     <namedActions.members>
  }

  <if(sempredFuncs)>
  sempred(localctx, ruleIndex, predIndex) {
   switch(ruleIndex) {
   <parser.sempredFuncs.values:{f
| case <f.ruleIndex>:
    return this.<f.name>_sempred(localctx, predIndex);}; separator="\n">
     default:
        throw "No predicate with index:" + ruleIndex;
    }
  }

  <sempredFuncs.values; separator="\n">
  <endif>
```

```
 <funcs; separator="\n">

}

<parser.name>.EOF = antlr4.Token.EOF;
<if(parser.tokens)>
<parser.tokens:{k | <parser.name>.<k> = <parser.tokens.(k)>;}; separator="\n", wrap, anchor>
<endif>

<if(parser.rules)>
<parser.rules:{r | <parser.name>.RULE_<r.name> = <r.index>;}; separator="\n", wrap, anchor>
<endif>

<funcs:{f | <ruleContexts(f)>}; separator="\n">

<! Define fields of this parser to export the context classes !>
<parser.funcs:{f | <parser.name>.<f.ctxType> = <f.ctxType>; }; separator="\n">

>>

ruleContexts(currentRule) ::= <<
<currentRule.ruleCtx>

<currentRule.altLabelCtxs:{l | <currentRule.altLabelCtxs.(l)>}; separator="\n">
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
<lexer.name>.prototype.action
 = function(localctx, ruleIndex, actionIndex) {
 switch (ruleIndex) {
 <recog.actionFuncs.values:{f|
case <f.ruleIndex>:
 this.<f.name>_action(localctx, actionIndex);
 break;}; separator="\n">
 default:
  throw "No registered action for:" + ruleIndex;
 }
};

<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
<lexer.name>.prototype.sempred = function(localctx, ruleIndex, predIndex) {
 switch (ruleIndex) {
  <recog.sempredFuncs.values:{f| case <f.ruleIndex>:
 return this.<f.name>_sempred(localctx, predIndex);}; separator="\n">
```

```
    default:
     throw "No registered predicate for:" + ruleIndex;
   }
};

<sempredFuncs.values; separator="\n">
<endif>
>>


/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<

<lexer.name>.prototype.<r.name>_action = function(localctx , actionIndex) {
 switch (actionIndex) {
 <actions:{index|
case <index>:
 <actions.(index)>
 break;};
 separator="\n">
 default:
  throw "No registered action for:" + actionIndex;
 }
};
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
<if (r.factory.g.lexer)><lexer.name>.prototype.<r.name>_sempred =
function<else><r.name>_sempred<endif>(localctx, predIndex) {
 switch(predIndex) {
  <actions:{index| case <index>:
 return <actions.(index)>;}; separator="\n">
  default:
   throw "No predicate with index:" + predIndex;
 }
};

>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<
```

```
<currentRule.escapedName>(<currentRule.args:{a | <a.escapedName>}; separator=", ">) {
  let localctx = new <currentRule.ctxType>(this, this._ctx, this.state<currentRule.args:{a | , <a.escapedName>}>);
  this.enterRule(localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>);
   <namedActions.init>
  <locals; separator="\n">
  try {
      <code>
      <postamble; separator="\n">
      <namedActions.after>
  }<if(exceptions)>
  <exceptions; separator="\n">
  <else> catch (re) {
   if(re instanceof antlr4.error.RecognitionException) {
        localctx.exception = re;
        this._errHandler.reportError(this, re);
        this._errHandler.recover(this, re);
    } else {
     throw re;
    }
  }<endif> finally {
      <finallyAction>
      this.exitRule();
  }
  return localctx;
}

>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
 namedActions,finallyAction,postamble) ::=
<<

<currentRule.escapedName>(_p<if(currentRule.args)>, <args:{a | , <a>}><endif>) {
 if(_p===undefined) {
    _p = 0;
 }
  const _parentctx = this._ctx;
  const _parentState = this.state;
  let localctx = new <currentRule.ctxType>(this, this._ctx, _parentState<args:{a | , <a.escapedName>}>);
  let _prevctx
 = localctx;
  const _startState = <currentRule.startState>;
  this.enterRecursionRule(localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>, _p);
  <namedActions.init>
  <locals; separator="\n">
  try {
      <code>
      <postamble; separator="\n">
```

```
      <namedActions.after>
   } catch( error) {
      if(error instanceof antlr4.error.RecognitionException) {
        localctx.exception = error;
        this._errHandler.reportError(this, error);
        this._errHandler.recover(this, error);
     } else {
     throw error;
     }
   } finally {
      <finallyAction>
      this.unrollRecursionContexts(_parentctx)
   }
   return localctx;
}

>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>localctx = new <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(this, localctx);<endif>
this.enterOuterAlt(localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock,
 ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = this._input.LT(1);<endif>
<preamble; separator="\n">
switch(this._input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
   <alt>
   break;}; separator="\n">
default:
   <error>
}
>>

LL1OptionalBlock(choice, alts, error) ::= <<
this.state = <choice.stateNumber>;
```

```
this._errHandler.sync(this);
switch (this._input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
 <alt>
 break;}; separator="\n">
default:
 break;
}
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<preamble; separator="\n">
if(<expr>)
 {
   <alts; separator="\n">
}
<!else if ( !(<followExpr>) ) <error>!>
>>

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<preamble; separator="\n">
while(<loopExpr>) {
   <alts; separator="\n">
   this.state = <choice.loopBackStateNumber>;
   this._errHandler.sync(this);
   <iteration>
}
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
this.state = <choice.blockStartStateNumber>; <! alt block decision !>
this._errHandler.sync(this);
<preamble; separator="\n">
do {
   <alts; separator="\n">
   this.state = <choice.stateNumber>; <! loopback/exit decision !>
   this._errHandler.sync(this);
   <iteration>
} while(<loopExpr>);
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
```

```
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
var
 la_ = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
switch(la_) {
<alts:{alt |
case <i>:
   <alt>
   break;
}; separator="\n">
}
>>

OptionalBlock(choice, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
var la_ = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
<alts:{alt |
if(la_===<i><if(!choice.ast.greedy)>+1<endif>) {
   <alt>
}; separator="\n} else ">
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
var _alt = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx)
while(_alt!=<choice.exitAlt> && _alt!=antlr4.atn.ATN.INVALID_ALT_NUMBER) {
   if(_alt===1<if(!choice.ast.greedy)>+1<endif>) {
       <iteration>
       <alts> <! should only be one !>
   }
   this.state = <choice.loopBackStateNumber>;
   this._errHandler.sync(this);
   _alt = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
}

>>

PlusBlock(choice,
 alts, error) ::= <<
this.state = <choice.blockStartStateNumber>; <! alt block decision !>
this._errHandler.sync(this);
var _alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
```

```
 switch (_alt) {
 <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n">
 default:
  <error>
 }
 this.state = <choice.loopBackStateNumber>; <! loopback/exit decision !>
 this._errHandler.sync(this);
 _alt = this._interp.adaptivePredict(this._input,<choice.decision>, this._ctx);
} while ( _alt!=<choice.exitAlt> && _alt!=antlr4.atn.ATN.INVALID_ALT_NUMBER );
>>

Sync(s) ::= "sync(<s.expecting.name>)"

ThrowNoViableAlt(t) ::= "throw new antlr4.error.NoViableAltException(this);"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.tokens)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>

// Javascript language spec - shift operators are 32 bits long max
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>)
 & ~0x1f) === 0
>>

bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> && ((1 \<\< <offsetShiftVar(s.varName,
bits.shift)>) & <bits.calculated>) !== 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

offsetShiftType(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<parser.name>.<shiftAmount> - <offset>)<else><parser.name>.<shiftAmount><endif>
%>

bitsetInlineComparison(s, bits) ::= <%
```

```
<bits.tokens:{t | <s.varName>===<t.type>}; separator=" || ">
%>

cases(tokens) ::= <<
<tokens:{t | case <t.type>:}; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
this.state = <r.stateNumber>;
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif>this.<r.escapedName>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argE
xprsChunks>);
>>

MatchToken(m) ::= <<
this.state = <m.stateNumber>;
<if(m.labels)><m.labels:{l
 | <labelref(l)> = }><endif>this.match(<parser.name>.<m.name>);
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
this.state = <m.stateNumber>;
<if(m.labels)><m.labels:{l | <labelref(l)> = }>this._input.LT(1);<endif>
<capture>
<if(invert)>if(<m.varName>\<=0 || <expr>)<else>if(!(<expr>))<endif> {
   <if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>this._errHandler.recoverInline(this);
}
else {
 this._errHandler.reportMatch(this);
   this.consume();
}
>>

Wildcard(w) ::= <<
this.state = <w.stateNumber>;
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>this.matchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"
```

```
SemPred(p, chunks, failChunks) ::= <<
this.state = <p.stateNumber>;
if (!( <chunks>)) {
   throw new antlr4.error.FailedPredicateException(this,
 <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>, <p.msg><endif>);
}
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
 <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "this.skip();"
LexerMoreCommand()  ::= "this.more();"
LexerPopModeCommand() ::= "this.popMode();"
LexerTypeCommand(arg, grammar)      ::= "this._type = <arg>;"
LexerChannelCommand(arg, grammar)   ::= "this._channel = <arg>;"
LexerModeCommand(arg, grammar)      ::= "this._mode = <arg>;"
LexerPushModeCommand(arg, grammar)  ::= "this.pushMode(<arg>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "localctx.<a.escapedName>"
LocalRef(a) ::= "localctx.<a.escapedName>"
RetValueRef(a) ::= "localctx.<a.escapedName>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.escapedName>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.escapedName>"
LabelRef(t) ::= "<ctx(t)>.<t.escapedName>"
ListLabelRef(t) ::=
 "<ctx(t)>.<ListLabelName(t.escapedName)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.escapedName> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<t.label> == null ? null : <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<t.label> == null ? 0 : <ctx(t)>.<t.label>.type)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<t.label> == null ? 0 : <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "(<ctx(t)>.<t.label> == null ? 0 : <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(<ctx(t)>.<t.label> == null ? 0 : <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "(<ctx(t)>.<t.label> == null ? 0 : <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "(<ctx(t)>.<t.label> == null ? 0 : parseInt(<ctx(t)>.<t.label>.text))"
```

```
RulePropertyRef_start(r) ::= "(<ctx(r)>.<r.label> == null ? null : <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r)
 ::= "(<ctx(r)>.<r.label> == null ? null : <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r)  ::= "(<ctx(r)>.<r.label> == null ? null : this._input.getText(new
antlr4.Interval(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop)))"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "this"

ThisRulePropertyRef_start(r) ::= "localctx.start"
ThisRulePropertyRef_stop(r)  ::= "localctx.stop"
ThisRulePropertyRef_text(r)  ::= "this._input.getText(new antlr4.Interval(localctx.start, this._input.LT(-1)))"
ThisRulePropertyRef_ctx(r)  ::= "localctx"
ThisRulePropertyRef_parser(r)  ::= "this"

NonLocalAttrRef(s)     ::= "this.getInvokingContext(<s.ruleIndex>).<s.escapedName>"
SetNonLocalAttr(s, rhsChunks)  ::= "this.getInvokingContext(<s.ruleIndex>).<s.escapedName> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.push(<labelref(a.label)>);"

TokenDecl(t) ::= "this.<t.escapedName> = null;"
TokenTypeDecl(t) ::= "var <t.escapedName> = 0;"
TokenListDecl(t)
 ::= "this.<t.escapedName> = [];"
RuleContextDecl(r) ::= "this.<r.escapedName> = null;"
RuleContextListDecl(rdecl) ::= "this.<rdecl.escapedName> = [];"

ContextTokenGetterDecl(t)      ::= <<
<t.escapedName>() {
   return this.getToken(<parser.name>.<t.name>, 0);
};
>>

// should never be called
ContextTokenListGetterDecl(t)  ::= <<
<t.escapedName>_list() {
   return this.getTokens(<parser.name>.<t.name>);
}
>>

ContextTokenListIndexedGetterDecl(t)  ::= <<
<t.escapedName> = function(i) {
 if(i===undefined) {
  i = null;
 }
   if(i===null) {
       return this.getTokens(<parser.name>.<t.name>);
   } else {
       return this.getToken(<parser.name>.<t.name>, i);
```

```
   }
};

>>

ContextRuleGetterDecl(r)       ::= <<
<r.escapedName>() {
   return this.getTypedRuleContext(<r.ctxName>,0);
};
>>

// should never be called
ContextRuleListGetterDecl(r)   ::= <<
<r.escapedName>_list() {
   return this.getTypedRuleContexts(<parser.name>.<r.ctxName>);
}
>>

ContextRuleListIndexedGetterDecl(r)
   ::= <<
<r.escapedName> = function(i) {
   if(i===undefined) {
      i = null;
   }
   if(i===null) {
      return this.getTypedRuleContexts(<r.ctxName>);
   } else {
      return this.getTypedRuleContext(<r.ctxName>,i);
   }
};
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
* r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName)   ::= "_<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)    ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = this._input.LA(1);"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,signatures) ::= <<
```

```
class <struct.escapedName> extends
<if(contextSuperClass)><contextSuperClass><else>antlr4.ParserRuleContext<endif> {

  constructor(parser, parent, invokingState<struct.ctorAttrs:{a
| , <a.escapedName>}>) {
      if(parent===undefined) {
          parent = null;
      }
      if(invokingState===undefined || invokingState===null) {
          invokingState = -1;
      }
      super(parent, invokingState);
      this.parser = parser;
      this.ruleIndex = <parser.name>.RULE_<struct.derivedFromName>;
      <attrs:{a | <a>}; separator="\n">
      <struct.ctorAttrs:{a | this.<a.escapedName> = <a.escapedName> || null;}; separator="\n">
  }

 <getters:{g | <g>}; separator="\n\n">

 <if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
 copyFrom(ctx) {
  super.copyFrom(ctx);
  <struct.attrs:{a | this.<a.escapedName> = ctx.<a.escapedName>;}; separator="\n">
 }
 <endif>
 <dispatchMethods; separator="\n">
 <extensionMembers; separator="\n">

}

>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.escapedName> extends <struct.parentRule; format="cap">Context {

  constructor(parser, ctx) {

     super(parser);
      <attrs:{a | <a>;}; separator="\n">
      super.copyFrom(ctx);
  }

 <getters:{g | <g>}; separator="\n\n">

 <dispatchMethods; separator="\n">

}
```

```
<! Define fields of this parser to export this struct/context class !>
<parser.name>.<struct.name> = <struct.escapedName>;

>>

ListenerDispatchMethod(method) ::= <<
<if(method.isEnter)>enter<else>exit<endif>Rule(listener) {
   if(listener instanceof <parser.grammarName>Listener ) {
       listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(this);
 }
}

>>

VisitorDispatchMethod(method) ::= <<
accept(visitor) {
   if ( visitor instanceof <parser.grammarName>Visitor ) {
       return visitor.visit<struct.derivedFromName; format="cap">(this);
   } else {
       return visitor.visitChildren(this);
   }
}

>>

AttributeDecl(d) ::= "this.<d.escapedName> = <if(d.initValue)><d.initValue><else>null<endif>"

/** If we don't know location of label def x, use this template */
labelref(x)
 ::= "<if(!x.isLocal)>localctx.<endif><x.escapedName>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "localctx"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)  ::= "this.precpred(this._ctx, <opPrec>)"
recRuleSetReturnAction(src,name)   ::= "$<name>=$<src>.<name>"
recRuleSetStopToken()                ::= "this._ctx.stop = this._input.LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
localctx = new <ctxName>Context(this, _parentctx, _parentState);
<if(label)>
<if(isListLabel)>
localctx.<label>.push(_prevctx);
<else>
localctx.<label> = _prevctx;
<endif>
```

```
<endif>
this.pushNewRecursionContext(localctx, _startState, <parser.name>.RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
localctx = new <currentAltLabel; format="cap">Context(this, new <ruleName; format="cap">Context(this,
_parentctx, _parentState));
<if(label)>
<if(isListLabel)>
localctx.<label>.push(_prevctx);
<else>
localctx.<label>
 = _prevctx;
<endif>
<endif>
this.pushNewRecursionContext(localctx, _startState, <parser.name>.RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName) ::= <<
localctx = new <ctxName>Context(this, localctx);
this._ctx = localctx;
_prevctx = localctx;
>>

recRuleSetPrevCtx() ::= <<
if(this._parseListeners!==null) {
   this.triggerExitRuleEvent();
}
_prevctx = localctx;
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
import antlr4 from 'antlr4';

<namedActions.header>

<lexer>

>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<if(superClass)>
import <superClass> from './<superClass>.js';

<endif>
<atn>
```

```
const atn = new antlr4.atn.ATNDeserializer().deserialize(serializedATN);

const decisionsToDFA = atn.decisionToState.map( (ds, index) => new antlr4.dfa.DFA(ds, index) );

export default class <lexer.name> extends <if(superClass)><superClass><else>antlr4.Lexer<endif>
 {

   static grammarFileName = "<lexer.grammarFileName>";
   static channelNames = [ "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channelNames)>,
<lexer.channelNames:{c| "<c>"}; separator=", ", wrap, anchor><endif> ];
 static modeNames = [ <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor> ];
 static literalNames = [ <lexer.literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];
 static symbolicNames = [ <lexer.symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];
 static ruleNames = [ <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ];

   constructor(input) {
       super(input)
       this._interp = new antlr4.atn.LexerATNSimulator(this, atn, decisionsToDFA, new
antlr4.atn.PredictionContextCache());
       <namedActions.members>
   }
}

<lexer.name>.EOF = antlr4.Token.EOF;
<if(lexer.tokens)>
<lexer.tokens:{k | <lexer.name>.<k> = <lexer.tokens.(k)>;}; separator="\n", wrap, anchor>
<endif>

<if(lexer.escapedChannels)>
<lexer.escapedChannels:{c|
 <lexer.name>.<c> = <lexer.escapedChannels.(c)>;}; separator="\n">

<endif>
<if(rest(lexer.escapedModeNames))>
<rest(lexer.escapedModeNames):{m| <lexer.name>.<m> = <i>;}; separator="\n">

<endif>

<dumpActions(lexer, "", actionFuncs, sempredFuncs)>


>>

SerializedATN(model) ::= <<
const serializedATN = [<model.serialized: {s | <s>}; separator=",", wrap>];

>>
```

```
/** Using a type to init value map, try to init a type; if not in table
* must be an object, default value is "null".
*/
initValue(typeName) ::= <<
<javacriptTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".js"
```

Found in path(s):
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/codegen/JavaScript/JavaScript.stg
No license file was found, but licenses were detected in source scan.


```
/*
* [The "BSD license"]
*  Copyright (c) 2012-2016 Terence Parr
*  Copyright (c) 2012-2016 Sam Harwell
*  All rights reserved.
*
*  Redistribution and use in source and binary forms, with or without
*  modification, are permitted provided that the following conditions
*  are met:
*
*  1. Redistributions of source code must retain the above copyright
*     notice, this list of conditions and the following disclaimer.
*  2. Redistributions in binary form must reproduce the above copyright
*     notice, this list of conditions and the following disclaimer in the
*     documentation and/or other materials provided with the distribution.
*  3. The name of the author may not be used to endorse or promote products
*     derived from this software without specific prior written permission.
*
*  THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR
*  IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
 TO, THE IMPLIED WARRANTIES
*  OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
*  IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
*  INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
*  NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
*  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
*  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
*  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
```


```
phpTypeInitMap ::= [
 "int":"0",
```

```
 "long":"0",
 "float":"0.0",
 "double":"0.0",
 "boolean":"false",
 default:"null"
]

// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<parser>
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName,
 file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage>;
<endif>
<header>
use Antlr\\Antlr4\\Runtime\\Tree\\ParseTreeListener;

/**
* This interface defines a complete listener for a parse tree produced by
* {@see <file.parserName>}.
*/
interface <file.grammarName>Listener extends ParseTreeListener {
 <file.listenerNames:{lname |
/**
<if(file.listenerLabelRuleNames.(lname))>
* Enter a parse tree produced by the `<lname>`
* labeled alternative in {@see <file.parserName>::<file.listenerLabelRuleNames.(lname)>()\}.
<else>
* Enter a parse tree produced by {@see <file.parserName>::<lname>()\}.
<endif>
* @param $context The parse tree.
*/
public function enter<lname; format="cap">(Context\\<lname; format="cap">Context $context): void;
/**
<if(file.listenerLabelRuleNames.(lname))>
* Exit a parse tree produced by the `<lname>` labeled alternative
* in {@see <file.parserName>::<file.listenerLabelRuleNames.(lname)>()\}.
<else>
* Exit a parse
 tree produced by {@see <file.parserName>::<lname>()\}.
<endif>
* @param $context The parse tree.
```

```
*/
public function exit<lname; format="cap">(Context\\<lname; format="cap">Context $context): void;};
separator="\n">
}
>>

BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage>;
<endif>
<header>

use Antlr\\Antlr4\\Runtime\\ParserRuleContext;
use Antlr\\Antlr4\\Runtime\\Tree\\ErrorNode;
use Antlr\\Antlr4\\Runtime\\Tree\\TerminalNode;

/**
* This class provides an empty implementation of {@see <file.grammarName>Listener},
* which can be extended to create a listener which only needs to handle a subset
* of the available methods.
*/
class <file.grammarName>BaseListener implements <file.grammarName>Listener
{
 <file.listenerNames:{lname |
/**
* {@inheritdoc\}
*
* The default implementation does nothing.
*/
public function enter<lname; format="cap">(Context\\<lname; format="cap">Context
 $context): void {\}

/**
* {@inheritdoc\}
*
* The default implementation does nothing.
*/
public function exit<lname; format="cap">(Context\\<lname; format="cap">Context $context): void {\}};
separator="\n">

 /**
  * {@inheritdoc\}
  *
  * The default implementation does nothing.
  */
 public function enterEveryRule(ParserRuleContext $context): void {}
```

```
 /**
  * {@inheritdoc\}
  *
  * The default implementation does nothing.
  */
 public function exitEveryRule(ParserRuleContext $context): void {}

 /**
  * {@inheritdoc\}
  *
  * The default implementation does nothing.
  */
 public function visitTerminal(TerminalNode $node): void {}

 /**
  * {@inheritdoc\}
  *
  * The default implementation does nothing.
  */
 public function visitErrorNode(ErrorNode $node): void {}
}
>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage>;
<endif>

<header>
use Antlr\\Antlr4\\Runtime\\Tree\\ParseTreeVisitor;

/**
 * This interface defines a complete generic visitor for a parse tree produced by {@see <file.parserName>}.
*/
interface <file.grammarName>Visitor extends ParseTreeVisitor
{
 <file.visitorNames:{lname |
/**
<if(file.visitorLabelRuleNames.(lname))>
* Visit a parse tree produced by the `<lname>` labeled alternative
* in {@see <file.parserName>::<file.visitorLabelRuleNames.(lname)>()\}.
<else>
* Visit a parse tree produced by {@see <file.parserName>::<lname>()\}.
<endif>
*
* @param Context\\<lname; format="cap">Context $context The parse tree.
*
```

```
* @return mixed The visitor result.
*/
public function visit<lname; format="cap">(Context\\<lname; format="cap">Context $context);};
separator="\n\n">
}
>>

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage>;
<endif>
<header>
use Antlr\\Antlr4\\Runtime\\Tree\\AbstractParseTreeVisitor;

/**
* This class provides an
 empty implementation of {@see <file.grammarName>Visitor},
* which can be extended to create a visitor which only needs to handle a subset
* of the available methods.
*/
class <file.grammarName>BaseVisitor extends AbstractParseTreeVisitor implements <file.grammarName>Visitor
{
 <file.visitorNames:{lname |
/**
* {@inheritdoc\}
*
* The default implementation returns the result of calling
* {@see self::visitChildren()\} on `context`.
*/
public function visit<lname; format="cap">(Context\\<lname; format="cap">Context $context)
{
   return $this->visitChildren($context);
\}}; separator="\n\n">
}
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
\<?php

/*
* Generated from <grammarFileName> by ANTLR <ANTLRVersion>
*/

>>
Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>
```

```
Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
namespace<if(file.genPackage)> <file.genPackage><endif> {
<if(namedActions.header)><namedActions.header><endif>
 use
 Antlr\\Antlr4\\Runtime\\Atn\\ATN;
 use Antlr\\Antlr4\\Runtime\\Atn\\ATNDeserializer;
 use Antlr\\Antlr4\\Runtime\\Atn\\ParserATNSimulator;
 use Antlr\\Antlr4\\Runtime\\Dfa\\DFA;
 use Antlr\\Antlr4\\Runtime\\Error\\Exceptions\\FailedPredicateException;
 use Antlr\\Antlr4\\Runtime\\Error\\Exceptions\\NoViableAltException;
 use Antlr\\Antlr4\\Runtime\\PredictionContexts\\PredictionContextCache;
 use Antlr\\Antlr4\\Runtime\\Error\\Exceptions\\RecognitionException;
 use Antlr\\Antlr4\\Runtime\\RuleContext;
 use Antlr\\Antlr4\\Runtime\\Token;
 use Antlr\\Antlr4\\Runtime\\TokenStream;
 use Antlr\\Antlr4\\Runtime\\Vocabulary;
 use Antlr\\Antlr4\\Runtime\\VocabularyImpl;
 use Antlr\\Antlr4\\Runtime\\RuntimeMetaData;
 use Antlr\\Antlr4\\Runtime\\Parser;
<if(namedActions.definitions)><namedActions.definitions><endif>

 final class <parser.name> extends <superClass; null="Parser">
 {
  <if(parser.tokens)>
  public const <parser.tokens:{k | <k> = <parser.tokens.(k)>}; separator=",
", wrap, anchor>;
  <endif>

  <if(parser.rules)>
  public const <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
  <endif>

  /**
   * @var array\<string>
   */
  public const RULE_NAMES = [
   <parser.ruleNames:{r | '<r>'}; separator=", ", wrap, anchor>
  ];

  <vocabulary(parser.literalNames, parser.symbolicNames)>

  <atn>
  protected static $atn;
  protected static $decisionToDFA;
  protected static $sharedContextCache;
  <if(namedActions.members)>
```

```
<namedActions.members>
<endif>


<parser:(ctor)()>

private static function initialize(): void
{
 if (self::$atn !== null) {
  return;
 }

 RuntimeMetaData::checkVersion('<file.ANTLRVersion>', RuntimeMetaData::VERSION);

 $atn = (new ATNDeserializer())->deserialize(self::SERIALIZED_ATN);

 $decisionToDFA = [];
 for ($i = 0, $count = $atn->getNumberOfDecisions(); $i \< $count; $i++) {
  $decisionToDFA[] = new DFA($atn->getDecisionState($i), $i);
 }

 self::$atn = $atn;
 self::$decisionToDFA
= $decisionToDFA;
 self::$sharedContextCache = new PredictionContextCache();
}

public function getGrammarFileName(): string
{
 return "<parser.grammarFileName>";
}

public function getRuleNames(): array
{
 return self::RULE_NAMES;
}

public function getSerializedATN(): array
{
 return self::SERIALIZED_ATN;
}

public function getATN(): ATN
{
 return self::$atn;
}

public function getVocabulary(): Vocabulary
```

```
      {
          static $vocabulary;

   return $vocabulary = $vocabulary ?? new VocabularyImpl(self::LITERAL_NAMES, self::SYMBOLIC_NAMES);
      }
<if(funcs)>

  <funcs; separator="\n\n">
<endif>
<if(sempredFuncs)>

  public function sempred(?RuleContext $localContext, int $ruleIndex, int $predicateIndex): bool
  {
   switch ($ruleIndex) {
   <parser.sempredFuncs.values:{f|
  case <f.ruleIndex>:
   return $this->sempred<f.name; format="cap">($localContext, $predicateIndex);}; separator="\n\n">

    default:
     return
 true;
    }
  }

  <sempredFuncs.values; separator="\n\n">
<endif>
 }
}

namespace <if(file.genPackage)><file.genPackage>\\<endif>Context {
 use Antlr\\Antlr4\\Runtime\\ParserRuleContext;
 use Antlr\\Antlr4\\Runtime\\Token;
 use Antlr\\Antlr4\\Runtime\\Tree\\ParseTreeVisitor;
 use Antlr\\Antlr4\\Runtime\\Tree\\TerminalNode;
 use Antlr\\Antlr4\\Runtime\\Tree\\ParseTreeListener;
 use <if(file.genPackage)><file.genPackage>\\<endif><parser.name>;
 <if (file.genVisitor)>use <if(file.genPackage)><file.genPackage>\\<endif><file.grammarName>Visitor;<endif>
 <if (file.genListener)>use <if(file.genPackage)><file.genPackage>\\<endif><file.grammarName>Listener;<endif>
 <namedActions.contexts>

 <funcs :{ func | <func.ruleCtx><if(func.altLabelCtxs)>

<func.altLabelCtxs:{l | <func.altLabelCtxs.(l)>}; separator="\n\n"><endif> }; separator="\n\n">
}
>>

vocabulary(literalNames, symbolicNames) ::= <<
/**
```

```
* @var array\<string|null>
*/
private const LITERAL_NAMES = [
   <literalNames:{t | <t>}; null="null",
 separator=", ", wrap, anchor>
];

/**
* @var array\<string>
*/
private const SYMBOLIC_NAMES = [
   <symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
];
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>

public function action(?RuleContext $localContext, int $ruleIndex, int $actionIndex): void
{
 switch ($ruleIndex) {
 <recog.actionFuncs.values:{f|
 case <f.ruleIndex>:
  $this->action<f.name; format="cap">($localContext, $actionIndex);
  break;}; separator="\n\n">
 }
}

<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>

public function sempred(?RuleContext $localContext, int $ruleIndex, int $predicateIndex): bool
{
 switch ($ruleIndex) {
 <recog.sempredFuncs.values:{f|
   case <f.ruleIndex>:
       return $this->sempred<f.name; format="cap">($localContext, $predicateIndex);}; separator="\n\n">
 }

 return true;
}
<sempredFuncs.values; separator="\n\n">
<endif>
>>

parser_ctor(p) ::= <<
public function __construct(TokenStream
```

```
 $input)
{
 parent::__construct($input);

 self::initialize();

 $this->interp = new ParserATNSimulator($this, self::$atn, self::$decisionToDFA, self::$sharedContextCache);
}
>>

/**
* This generates a private method since the actionIndex is generated, making
* an overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
private function action<r.name; format="cap">(?<r.ctxType> $localContext, int $actionIndex): void
{
 switch ($actionIndex) {
 <actions:{index|
 case <index>:
 <actions.(index)>

 break;}; separator="\n\n">
 }
}
>>

/**
* This generates a private method since the predicateIndex is generated, making
* an overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
private function sempred<r.name; format="cap">(?Context\\<r.ctxType> $localContext, int $predicateIndex): bool
{
 switch ($predicateIndex) {
 <actions:{index|
   case <index>:
       return <actions.(index)>;}; separator="\n\n">
 }

 return
 true;
}
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,exceptions,postamble)
::= <<
/**
```

```
* @throws RecognitionException
*/
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><endif>public function <currentRule.name>(<args;
separator=",">): Context\\<currentRule.ctxType>
{
  $localContext = new Context\\<currentRule.ctxType>($this->ctx, $this->getState()<currentRule.args:{a | ,
$<a.name>}>);

  $this->enterRule($localContext, <currentRule.startState>, self::RULE_<currentRule.name>);
  <namedActions.init>
  <locals; separator="\n">

  try {
     <code>
     <postamble; separator="\n">
     <namedActions.after>
  }<if(exceptions)><exceptions; separator="\n"><else> catch (RecognitionException $exception) {
     $localContext->exception = $exception;
     $this->errorHandler->reportError($this, $exception);
     $this->errorHandler->recover($this, $exception);
  }<endif> finally {

     <finallyAction>
     $this->exitRule();
  }

  return $localContext;
}
>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamb
le) ::= <<
/**
* @throws RecognitionException
*/
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><endif>public function <currentRule.name>(<args;
separator=", ">): Context\\<currentRule.ctxType>
{
 return $this->recursive<currentRule.name; format="cap">(0<currentRule.args:{a | , <a.name>}>);
}

/**
* @throws RecognitionException
*/
private function recursive<currentRule.name; format="cap">(int $precedence<args:{a | , <a>}>):
Context\\<currentRule.ctxType>
{
 $parentContext = $this->ctx;
```

```
 $parentState = $this->getState();
 $localContext = new Context\\<currentRule.ctxType>($this->ctx, $parentState<currentRule.args:{a | ,
<a.name>}>);
 $previousContext = $localContext;
 $startState = <currentRule.startState>;
 $this->enterRecursionRule($localContext, <currentRule.startState>,
 self::RULE_<currentRule.name>, $precedence);
 <namedActions.init>
 <locals; separator="\n">

 try {
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 } catch (RecognitionException $exception) {
  $localContext->exception = $exception;
  $this->errorHandler->reportError($this, $exception);
  $this->errorHandler->recover($this, $exception);
 } finally {
  <finallyAction>
  $this->unrollRecursionContexts($parentContext);
 }

 return $localContext;
}
>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>$localContext = new
Context\\<currentOuterMostAltCodeBlock.altLabel; format="cap">Context($localContext);<endif>
$this->enterOuterAlt($localContext, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>

LL1AltBlock(choice,
 preamble, alts, error) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);
<if(choice.label)><labelref(choice.label)> = $this->input->LT(1);<endif>
<preamble; separator="\n">

switch ($this->input->LA(1)) {
```

```
   <choice.altLook,alts:{look,alt| <cases(tokens=look)>
 <alt>
 break;}; separator="\n\n">

default:
 <error>
}
>>

LL1OptionalBlock(choice, alts, error) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);

switch ($this->input->LA(1)) {
   <choice.altLook,alts:{look,alt| <cases(tokens=look)>
 <alt>
 break;}; separator="\n\n">

default:
 break;
}
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);
<preamble; separator="\n">

if (<expr>) {
 <alts; separator="\n">
}
>>

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);

<preamble;
 separator="\n">
while (<loopExpr>) {
 <alts; separator="\n">
 $this->setState(<choice.loopBackStateNumber>);
 $this->errorHandler->sync($this);
 <iteration>
}
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
```

```
$this->setState(<choice.blockStartStateNumber>); <! alt block decision !>
$this->errorHandler->sync($this);

<preamble; separator="\n">
do {
 <alts; separator="\n">
 $this->setState(<choice.stateNumber>); <! loopback/exit decision !>
 $this->errorHandler->sync($this);
 <iteration>
} while (<loopExpr>);
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);
<if(choice.label)><labelref(choice.label)> = $this->input->LT(1);<endif>
<preamble; separator="\n">

switch ($this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx)) {
 <alts:{alt |
case <i>:
   <alt>
break;}; separator="\n\n">
}
>>

OptionalBlock(choice,
 alts, error) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);

switch ($this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx)) {
<alts:{alt |
   case <i><if(!choice.ast.greedy)>+1<endif>:
     <alt>
 break;}; separator="\n\n">
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);

$alt = $this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx);

while ($alt !== <choice.exitAlt> && $alt !== ATN::INVALID_ALT_NUMBER) {
```

```
 if ($alt === 1<if(!choice.ast.greedy)>+1<endif>) {
  <iteration>
  <alts> <! should only be one !>
 }

 $this->setState(<choice.loopBackStateNumber>);
 $this->errorHandler->sync($this);

 $alt = $this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx);
}
>>

PlusBlock(choice, alts, error) ::= <<
$this->setState(<choice.blockStartStateNumber>); <! alt block decision !>
$this->errorHandler->sync($this);

$alt
 = 1<if(!choice.ast.greedy)>+1<endif>;

do {
 switch ($alt) {
 <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n\n">
 default:
  <error>
 }

 $this->setState(<choice.loopBackStateNumber>); <! loopback/exit decision !>
 $this->errorHandler->sync($this);

 $alt = $this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx);
} while ($alt !== <choice.exitAlt> && $alt !== ATN::INVALID_ALT_NUMBER);
>>

Sync(s) ::= "sync(<s.expecting.name>);"

ThrowNoViableAlt(t) ::= "throw new NoViableAltException($this);"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.tokens)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) === 0
```

```
>>

bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName,
 bits.shift)>})> && ((1 \<\< <offsetShiftVar(s.varName, bits.shift)>) & <bits.calculated>) !== 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>($<shiftAmount> - <offset>)<else>$<shiftAmount><endif>
%>
offsetShiftConst(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(self::<shiftAmount> - <offset>)<else>self::<shiftAmount><endif>
%>

bitsetInlineComparison(s, bits) ::= <%
<bits.tokens:{t | $<s.varName> === self::<t.name>}; separator=" || ">
%>

cases(tokens) ::= <<
<tokens:{t | case self::<t.name>:}; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
$this->setState(<r.stateNumber>);
<if(r.labels)><r.labels:{l | <labelref(l)> = }><endif>$this-><if(r.ast.options.p)>recursive<r.name;
format="cap"><else><r.name><endif>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif>
<argExprsChunks>);
>>

MatchToken(m) ::= <<
$this->setState(<m.stateNumber>);
<if(m.labels)><m.labels:{l
 | <labelref(l)> = }><endif>$this->match(self::<m.name>);
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
$this->setState(<m.stateNumber>);

<if(m.labels)><m.labels:{l | <labelref(l)> = }>$this->input->LT(1);<endif>
```

```
<capture>

if (<if(invert)>$<m.varName> \<= 0 || <else>!<endif>(<expr>)) {
    <if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>$this->errorHandler->recoverInline($this);
} else {
 if ($this->input->LA(1) === Token::EOF) {
    $this->matchedEOF = true;
   }

 $this->errorHandler->reportMatch($this);
 $this->consume();
}
>>

Wildcard(w) ::= <<
$this->setState(<w.stateNumber>);
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>$this->matchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
$this->setState(<p.stateNumber>);

if
 (!(<chunks>)) {
   throw new FailedPredicateException($this, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>,
<p.msg><endif>);
}
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
 <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "$this->skip();"
LexerMoreCommand()  ::= "$this->more();"
LexerPopModeCommand() ::= "$this->popMode();"

LexerTypeCommand(arg, grammar)      ::= "$this->type = <arg>;"
```

```
LexerChannelCommand(arg, grammar)   ::= "$this->channel = <arg>;"
LexerModeCommand(arg, grammar)      ::= "$this->mode = <arg>;"
LexerPushModeCommand(arg, grammar)  ::= "$this->pushMode(<arg>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "$localContext-><a.name>"
LocalRef(a) ::= "$localContext-><a.name>"
RetValueRef(a) ::= "$localContext-><a.name>"
QRetValueRef(a) ::= "<ctx(a)>-><a.dict>-><a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>-><t.name>"
LabelRef(t)
 ::= "<ctx(t)>-><t.name>"
ListLabelRef(t) ::= "<ctx(t)>-><ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>-><s.name> = <rhsChunks>;"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(<ctx(t)>-><t.label> !== null ? <ctx(t)>-><t.label>->getText() : null)"
TokenPropertyRef_type(t) ::= "(<ctx(t)>-><t.label> !== null ? <ctx(t)>-><t.label>->getType() : 0)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>-><t.label> !== null ? <ctx(t)>-><t.label>->getLine() : 0)"
TokenPropertyRef_pos(t) ::= "(<ctx(t)>-><t.label> !== null ? <ctx(t)>-><t.label>->getCharPositionInLine() : 0)"
TokenPropertyRef_channel(t) ::= "(<ctx(t)>-><t.label> !== null ? <ctx(t)>-><t.label>->getChannel() : 0)"
TokenPropertyRef_index(t) ::= "(<ctx(t)>-><t.label> !== null ? <ctx(t)>-><t.label>->getTokenIndex() : 0)"
TokenPropertyRef_int(t) ::= "(<ctx(t)>-><t.label> !== null ? (int) <ctx(t)>-><t.label>->getText()
 : 0)"

RulePropertyRef_start(r) ::= "(<ctx(r)>-><r.label> !== null ? (<ctx(r)>-><r.label>->start) : null)"
RulePropertyRef_stop(r)  ::= "(<ctx(r)>-><r.label> !== null ? (<ctx(r)>-><r.label>->stop) : null)"
RulePropertyRef_text(r)  ::= "(<ctx(r)>-><r.label> !== null ? $this->input->getTextByTokens(<ctx(r)>-><r.label>-
>start, <ctx(r)>-><r.label>->stop) : null)"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>-><r.label>"
RulePropertyRef_parser(r)::= "\$this"

ThisRulePropertyRef_start(r) ::= "$localContext->start"
ThisRulePropertyRef_stop(r)  ::= "$localContext->stop"
ThisRulePropertyRef_text(r)  ::= "$this->input->getTextByTokens($localContext->start, $this->input->LT(-1))"
ThisRulePropertyRef_ctx(r)  ::= "$localContext"
ThisRulePropertyRef_parser(r)::= "$this"

NonLocalAttrRef(s)        ::= "\$this->getInvokingContext(<s.ruleIndex>)-><s.name>"
SetNonLocalAttr(s, rhsChunks) ::= "\$this->getInvokingContext(<s.ruleIndex>)-><s.name> = <rhsChunks>;"

AddToLabelList(a) ::= "<ctx(a.label)>-><a.listName>[]
 = <labelref(a.label)>;"
```

```
TokenDecl(t) ::= "<TokenLabelType()> $<t.name>"
TokenTypeDecl(t) ::= ""
TokenListDecl(t) ::= "array $<t.name> = []"
RuleContextDecl(r) ::= "<r.ctxName> $<r.name>"
RuleContextListDecl(rdecl) ::= "array $<rdecl.name> = []"
AttributeDecl(d) ::= "<d.type> $<d.name><if(d.initValue)> = <d.initValue><endif>"

PropertiesDecl(struct) ::= <<
<if(struct.tokenListDecls)>
 <struct.tokenListDecls : {d | /**
* @var array\<Token>|null $<d.name>
*/
public $<d.name>;}; separator="\n\n">
<endif>
<if(struct.tokenDecls)>
<if(struct.tokenListDecls)>

<endif>
 <struct.tokenDecls : {d | /**
* @var <TokenLabelType()>|null $<d.name>
*/
public $<d.name>;}; separator="\n\n">
<endif>
<if(struct.ruleContextDecls)>
<if(struct.tokenListDecls || struct.tokenDecls)>

<endif>
 <struct.ruleContextDecls : {d | /**
* @var <d.ctxName>|null $<d.name>
*/
public $<d.name>;}; separator="\n\n">
<endif>
<if(struct.ruleContextListDecls)>
<if(struct.tokenListDecls || struct.tokenDecls
 || struct.ruleContextDecls)>

<endif>
 <struct.ruleContextListDecls : {d | /**
* @var array\<<d.ctxName>\>|null $<d.name>
*/
public $<d.name>;}; separator="\n\n">
<endif>
<if(struct.attributeDecls)>
<if(struct.tokenListDecls || struct.tokenDecls || struct.ruleContextDecls || struct.ruleContextListDecls)>

<endif>
 <struct.attributeDecls : {d | /**
* @var <d.type><if(!d.initValue)>|null<endif> $<d.name>
```

```
*/
public $<d.name><if(d.initValue)> = <d.initValue><endif>;}; separator="\n\n">
<endif>

>>

ContextTokenGetterDecl(t) ::= <<
public function <t.name>(): ?TerminalNode
{
   return $this->getToken(<parser.name>::<t.name>, 0);
}
>>

ContextTokenListGetterDecl(t)  ::= <<
>>

ContextTokenListIndexedGetterDecl(t)  ::= <<
/**
* @return array\<TerminalNode>|TerminalNode|null
*/
public function <t.name>(?int $index = null)
{
 if ($index === null) {
  return $this->getTokens(<parser.name>::<t.name>);
 }

   return $this->getToken(<parser.name>::<t.name>, $index);
}
>>

ContextRuleGetterDecl(r)
       ::= <<
public function <r.name>(): ?<r.ctxName>
{
 return $this->getTypedRuleContext(<r.ctxName>::class, 0);
}
>>

ContextRuleListGetterDecl(r)   ::= <<
>>

ContextRuleListIndexedGetterDecl(r)   ::= <<
/**
* @return array\<<r.ctxName>\>|<r.ctxName>|null
*/
public function <r.name>(?int $index = null)
{
 if ($index === null) {
```

```
  return $this->getTypedRuleContexts(<r.ctxName>::class);
 }

   return $this->getTypedRuleContext(<r.ctxName>::class, $index);
}
>>

LexerRuleContext() ::= "RuleContext"

/**
* The rule context name is the rule followed by a suffix; e.g., r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "<tokenName>"
ImplicitRuleLabel(ruleName)   ::= "<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)    ::= "<label>"

CaptureNextToken(d) ::= "$<d.varName> = \$this->input->LT(1);"
CaptureNextTokenType(d) ::= "$<d.varName> = $this->input->LA(1);"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,signatures)
 ::= <<
class <struct.name> extends
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)> implements
<interfaces; separator=", "><endif>
{
<PropertiesDecl(struct)>
 public function __construct(?ParserRuleContext $parent, ?int $invokingState = null<ctorAttrs:{a | , ?<a> = null}>)
 {
  parent::__construct($parent, $invokingState);
<if(struct.ctorAttrs)>

  <struct.ctorAttrs:{a | $this-><a.name> = $<a.name> ?? $this-><a.name>;}; separator="\n">
<endif>
 }

 public function getRuleIndex(): int
 {
     return <parser.name>::RULE_<struct.derivedFromName>;
   }
<if(getters)>

   <getters:{g | <g>}; separator="\n\n">
<endif>
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
 public function copyFrom(ParserRuleContext $context): void
```

```
 {
  parent::copyFrom($context);

  <struct.attrs:{a | $this-><a.name> = $context-><a.name>;}; separator="\n">
 }
<endif>
<if(dispatchMethods)>

 <dispatchMethods;
 separator="\n\n">
<endif>
<if(extensionMembers)>

 <extensionMembers; separator="\n\n">
<endif>
}
>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.name> extends <struct.parentRule; format="cap">Context
{
<PropertiesDecl(struct)>
 public function __construct(<struct.parentRule; format="cap">Context $context)
 {
     parent::__construct($context);

     $this->copyFrom($context);
   }
<if(getters)>

   <getters:{g | <g>}; separator="\n\n">
<endif>
<if(dispatchMethods)>

 <dispatchMethods; separator="\n\n">
<endif>
}
>>

ListenerDispatchMethod(method) ::= <<
public function <if(method.isEnter)>enter<else>exit<endif>Rule(ParseTreeListener $listener): void
{
 if ($listener instanceof <parser.grammarName>Listener) {
     $listener-><if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">($this);
   }
}
>>
```

```
VisitorDispatchMethod(method) ::= <<
public function accept(ParseTreeVisitor $visitor): mixed
{
 if ($visitor instanceof
 <parser.grammarName>Visitor) {
     return $visitor->visit<struct.derivedFromName; format="cap">($this);
   }

 return $visitor->visitChildren($this);
}
>>

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>$localContext-><endif><x.name>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "$localContext"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)  ::= "\$this->precpred(\$this->ctx, <opPrec>)"

recRuleSetReturnAction(src,name)   ::= "\$<name> = \$<src>-><name>;"

recRuleSetStopToken()                ::= "$this->ctx->stop = $this->input->LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
$localContext = new Context\\<ctxName>Context($parentContext, $parentState);
<if(label)>
<if(isListLabel)>
$localContext-><label>[] = $previousContext;
<else>
$localContext-><label> = $previousContext;
<endif>
<endif>

$this->pushNewRecursionContext($localContext,
 $startState, self::RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
$localContext = new Context\\<currentAltLabel; format="cap">Context(new Context\\<ruleName;
format="cap">Context($parentContext, $parentState));
<if(label)>
<if(isListLabel)>
$localContext-><label>[] = $previousContext;
<else>
$localContext-><label> = $previousContext;
<endif>
```

```
<endif>

$this->pushNewRecursionContext($localContext, $startState, self::RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName) ::= <<
$localContext = new Context\\<ctxName>Context($localContext);
$this->ctx = $localContext;
$previousContext = $localContext;
>>

recRuleSetPrevCtx() ::= <<
if ($this->getParseListeners() !== null) {
   $this->triggerExitRuleEvent();
}

$previousContext = $localContext;
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
<lexer>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass)
 ::= <<
namespace<if(lexerFile.genPackage)> <lexerFile.genPackage><endif> {
<if(namedActions.header)><namedActions.header><endif>
 use Antlr\\Antlr4\\Runtime\\Atn\\ATNDeserializer;
 use Antlr\\Antlr4\\Runtime\\Atn\\LexerATNSimulator;
 use Antlr\\Antlr4\\Runtime\\Lexer;
 use Antlr\\Antlr4\\Runtime\\CharStream;
 use Antlr\\Antlr4\\Runtime\\PredictionContexts\\PredictionContextCache;
 use Antlr\\Antlr4\\Runtime\\RuleContext;
 use Antlr\\Antlr4\\Runtime\\Atn\\ATN;
 use Antlr\\Antlr4\\Runtime\\Dfa\\DFA;
 use Antlr\\Antlr4\\Runtime\\Vocabulary;
 use Antlr\\Antlr4\\Runtime\\RuntimeMetaData;
 use Antlr\\Antlr4\\Runtime\\VocabularyImpl;
<if(namedActions.definitions)><namedActions.definitions><endif>

 final class <lexer.name> extends <superClass; null="Lexer">
 {
  <if(lexer.tokens)>
  public const <lexer.tokens:{k | <k> = <lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
  <endif>
```

```
 <if(lexer.escapedChannels)>
 public const <lexer.escapedChannels:{c | <c> = <lexer.escapedChannels.(c)>};
separator=", ", wrap, anchor>;
 <endif>

 <if(rest(lexer.escapedModeNames))>
 public const <rest(lexer.escapedModeNames):{m | <m>=<i>}; separator=", ", wrap, anchor>;
 <endif>

 /**
  * @var array\<string>
  */
 public const CHANNEL_NAMES = [
  'DEFAULT_TOKEN_CHANNEL', 'HIDDEN'<if (lexer.channelNames)>, <lexer.channelNames:{c| '<c>'};
separator=", ", wrap, anchor><endif>
 ];

 /**
  * @var array\<string>
  */
 public const MODE_NAMES = [
  <lexer.modes:{m| '<m>'}; separator=", ", wrap, anchor>
 ];

 /**
  * @var array\<string>
  */
 public const RULE_NAMES = [
  <lexer.ruleNames:{r | '<r>'}; separator=", ", wrap, anchor>
 ];

 <vocabulary(lexer.literalNames, lexer.symbolicNames)>

 <atn>
 protected static $atn;
 protected static $decisionToDFA;
 protected static $sharedContextCache;
<if(namedActions.members)>

 <namedActions.members>
<endif>

 public function __construct(CharStream $input)
 {
  parent::__construct($input);

  self::initialize();
```

```
 $this->interp
= new LexerATNSimulator($this, self::$atn, self::$decisionToDFA, self::$sharedContextCache);
 }

 private static function initialize(): void
 {
  if (self::$atn !== null) {
   return;
  }

  RuntimeMetaData::checkVersion('<lexerFile.ANTLRVersion>', RuntimeMetaData::VERSION);

  $atn = (new ATNDeserializer())->deserialize(self::SERIALIZED_ATN);

  $decisionToDFA = [];
  for ($i = 0, $count = $atn->getNumberOfDecisions(); $i \< $count; $i++) {
   $decisionToDFA[] = new DFA($atn->getDecisionState($i), $i);
  }

  self::$atn = $atn;
  self::$decisionToDFA = $decisionToDFA;
  self::$sharedContextCache = new PredictionContextCache();
 }

 public static function vocabulary(): Vocabulary
 {
  static $vocabulary;

  return $vocabulary = $vocabulary ?? new VocabularyImpl(self::LITERAL_NAMES, self::SYMBOLIC_NAMES);
 }

 public function getGrammarFileName(): string
 {
  return '<lexer.grammarFileName>';
 }

 public function getRuleNames(): array
 {
  return
self::RULE_NAMES;
 }

 public function getSerializedATN(): array
 {
  return self::SERIALIZED_ATN;
 }

 /**
```

```
  * @return array\<string>
  */
  public function getChannelNames(): array
  {
   return self::CHANNEL_NAMES;
  }

  /**
  * @return array\<string>
  */
  public function getModeNames(): array
  {
   return self::MODE_NAMES;
  }

  public function getATN(): ATN
  {
   return self::$atn;
  }

  public function getVocabulary(): Vocabulary
  {
   return self::vocabulary();
  }
  <dumpActions(lexer, "", actionFuncs, sempredFuncs)>
 }
}
>>

SerializedATN(model) ::= <<
private const SERIALIZED_ATN =
 [<model.serialized: {s | <s>}; separator=", ", wrap={<\n>    }>];
>>

/**
* Using a type to init value map, try to init a type; if not in table
* must be an object, default value is `null`.
*/
initValue(typeName) ::= <<
<phpTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".php"
```

Found in path(s):
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/codegen/PHP/PHP.stg

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* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/GrammarTreeVisitor.java
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atn(startState, states, edges, rankdir, decisionRanks, useBox) ::= <<
digraph ATN {
rankdir=LR;
<decisionRanks; separator="\n">
<states; separator="\n">
<edges; separator="\n">
}
>>

dfa(name, startState, states, edges, rankdir, decisionRanks, useBox) ::= <<
digraph <name>  {
<if(rankdir)>rankdir=<rankdir>;<endif>
<decisionRanks; separator="\n">
<states; separator="\n">
<edges;
 separator="\n">
}
>>

decision-rank(states) ::= <<
{rank=same; rankdir=TB; <states:{s | s<s>}; separator="; ">}
>>

edge(src,target,label,arrowhead,transitionIndex) ::= <<
<src><if(transitionIndex)>:p<transitionIndex><endif> -> <target> [fontsize=11, fontname="Courier", arrowsize=.7,
label = "<label>"<if(arrowhead)>, arrowhead = <arrowhead><endif>];
>>
```

```
action-edge(src,target,label,arrowhead,transitionIndex) ::= <<
<src><if(transitionIndex)>:p<transitionIndex><endif> -> <target> [fontsize=11, fontname="Courier", arrowsize=.7,
label = "<label>"<if(arrowhead)>, arrowhead = <arrowhead><endif>];
>>

epsilon-edge(src,label,target,arrowhead,transitionIndex,loopback=false) ::= <<
<src><if(transitionIndex)>:p<transitionIndex><endif> -> <target> [fontname="Times-Italic",
label="&epsilon;"<if(loopback)>, style="dashed"<endif>];
>>

state(state, label, name, transitions) ::= <%
<name>[fontsize=11,
  label="
      <! rest(transition) tests for decision states: these nodes have a non-empty
 set of transitions after the first one. !>
      <if(rest(transitions))>
         {
         <! Label on the left side of the record node. !>
         <label>
         |
         <! Named ports in order on right side of record node, no display text. !>
         {<transitions:{t|\<p<i0>>}; separator="|">}}
      <else>
         <label>
      <endif>
      "
  <if(rest(transitions))>
      , shape=record, fixedsize=false
  <else>
      , shape=circle, fixedsize=true, width=.55
  <endif>
  , peripheries=1];
%>

stopstate(name,label,actionIndex,useBox) ::= <<
<name>[fontsize=11, label="<label><if(actionIndex)>,\naction:<actionIndex><endif>",
<if(useBox)>shape=polygon,sides=4,peripheries=2,fixedsize=false<else>shape=doublecircle, fixedsize=true,
width=.6<endif>];
>>
```

Found in path(s):
* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/dot/graphs.stg
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* /opt/cola/permits/1811500564_1696214652.7367225/0/antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/codegen/Dart/Dart.stg

1.3022 quartz 2.4.0-rc1

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1.3025 typescript-eslint-experimental-utils 5.41.0

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1.3026 ace-builds 1.12.3

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1.3027 @babel/runtime-corejs3 7.20.0

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1.3028 tailwindcss 3.2.1

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1.3029 @types/eslint 8.4.8

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1.3030 memfs 3.4.8

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1.3031 @pmmmwh/react-refresh-webpack-plugin 0.5.8

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1.3032 google-golang-org-genproto 0.0.0-20230822172742-b8732ec3820d

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1.3033 swagger-ui 4.18.2

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* /opt/cola/permits/1813063078_1696440474.2194939/0/failsafe-3-3-2-sources-jar/dev/failsafe/internal/util/DelegatingScheduler.java
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* /opt/cola/permits/1813063078_1696440474.2194939/0/failsafe-3-3-2-sources-jar/dev/failsafe/spi/ExecutionInternal.java
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* /opt/cola/permits/1813063078_1696440474.2194939/0/failsafe-3-3-2-sources-jar/dev/failsafe/Call.java
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* /opt/cola/permits/1813063078_1696440474.2194939/0/failsafe-3-3-2-sources-jar/dev/failsafe/BulkheadFullException.java
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* /opt/cola/permits/1813063078_1696440474.2194939/0/failsafe-3-3-2-sources-jar/dev/failsafe/internal/RateLimiterExecutor.java
* /opt/cola/permits/1813063078_1696440474.2194939/0/failsafe-3-3-2-sources-jar/dev/failsafe/internal/RateLimiterImpl.java
* /opt/cola/permits/1813063078_1696440474.2194939/0/failsafe-3-3-2-sources-jar/dev/failsafe/BulkheadBuilder.java
* /opt/cola/permits/1813063078_1696440474.2194939/0/failsafe-3-3-2-sources-jar/dev/failsafe/RateLimiterConfig.java
* /opt/cola/permits/1813063078_1696440474.2194939/0/failsafe-3-3-2-sources-jar/dev/failsafe/internal/RateLimiterStats.java
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* /opt/cola/permits/1813063078_1696440474.2194939/0/failsafe-3-3-2-sources-jar/dev/failsafe/function/CheckedSupplier.java
* /opt/cola/permits/1813063078_1696440474.2194939/0/failsafe-3-3-2-sources-jar/dev/failsafe/FallbackBuilder.java
* /opt/cola/permits/1813063078_1696440474.2194939/0/failsafe-3-3-2-sources-jar/dev/failsafe/internal/FallbackImpl.java
* /opt/cola/permits/1813063078_1696440474.2194939/0/failsafe-3-3-2-sources-jar/dev/failsafe/Functions.java
* /opt/cola/permits/1813063078_1696440474.2194939/0/failsafe-3-3-2-sources-jar/dev/failsafe/function/CheckedConsumer.java
* /opt/cola/permits/1813063078_1696440474.2194939/0/failsafe-3-3-2-sources-jar/dev/failsafe/RetryPolicyBuilder.java
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* /opt/cola/permits/1813063078_1696440474.2194939/0/failsafe-3-3-2-sources-jar/dev/failsafe/function/ContextualRunnable.java
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* /opt/cola/permits/1813063078_1696440474.2194939/0/failsafe-3-3-2-sources-jar/dev/failsafe/internal/HalfOpenState.java
* /opt/cola/permits/1813063078_1696440474.2194939/0/failsafe-3-3-2-sources-jar/dev/failsafe/SyncExecutionImpl.java
* /opt/cola/permits/1813063078_1696440474.2194939/0/failsafe-3-3-2-sources-jar/dev/failsafe/ExecutionImpl.java
* /opt/cola/permits/1813063078_1696440474.2194939/0/failsafe-3-3-2-sources-jar/dev/failsafe/function/CheckedFunction.java
* /opt/cola/permits/1813063078_1696440474.2194939/0/failsafe-3-3-2-sources-jar/dev/failsafe/internal/OpenState.java
* /opt/cola/permits/1813063078_1696440474.2194939/0/failsafe-3-3-2-sources-jar/dev/failsafe/function/CheckedPredicate.java
* /opt/cola/permits/1813063078_1696440474.2194939/0/failsafe-3-3-2-sources-jar/dev/failsafe/ExecutionContext.java
* /opt/cola/permits/1813063078_1696440474.2194939/0/failsafe-3-3-2-sources-jar/dev/failsafe/internal/RetryPolicyImpl.java
* /opt/cola/permits/1813063078_1696440474.2194939/0/failsafe-3-3-2-sources-

jar/dev/failsafe/internal/util/Assert.java
* /opt/cola/permits/1813063078_1696440474.2194939/0/failsafe-3-3-2-sources-jar/dev/failsafe/function/AsyncRunnable.java
* /opt/cola/permits/1813063078_1696440474.2194939/0/failsafe-3-3-2-sources-jar/dev/failsafe/spi/FailsafeFuture.java
* /opt/cola/permits/1813063078_1696440474.2194939/0/failsafe-3-3-2-sources-jar/dev/failsafe/spi/DefaultScheduledFuture.java
* /opt/cola/permits/1813063078_1696440474.2194939/0/failsafe-3-3-2-sources-jar/dev/failsafe/Failsafe.java
* /opt/cola/permits/1813063078_1696440474.2194939/0/failsafe-3-3-2-sources-jar/dev/failsafe/function/CheckedBiPredicate.java
* /opt/cola/permits/1813063078_1696440474.2194939/0/failsafe-3-3-2-sources-jar/dev/failsafe/CircuitBreakerOpenException.java
* /opt/cola/permits/1813063078_1696440474.2194939/0/failsafe-3-3-2-sources-jar/dev/failsafe/internal/CircuitState.java
* /opt/cola/permits/1813063078_1696440474.2194939/0/failsafe-3-3-2-sources-jar/dev/failsafe/function/AsyncSupplier.java
* /opt/cola/permits/1813063078_1696440474.2194939/0/failsafe-3-3-2-sources-jar/dev/failsafe/function/CheckedRunnable.java
* /opt/cola/permits/1813063078_1696440474.2194939/0/failsafe-3-3-2-sources-jar/dev/failsafe/RetryPolicy.java
* /opt/cola/permits/1813063078_1696440474.2194939/0/failsafe-3-3-2-sources-jar/dev/failsafe/Fallback.java
* /opt/cola/permits/1813063078_1696440474.2194939/0/failsafe-3-3-2-sources-jar/dev/failsafe/CircuitBreakerBuilder.java
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* /opt/cola/permits/1813063078_1696440474.2194939/0/failsafe-3-3-2-sources-jar/dev/failsafe/internal/util/Maths.java
* /opt/cola/permits/1813063078_1696440474.2194939/0/failsafe-3-3-2-sources-jar/dev/failsafe/internal/util/Lists.java

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* /opt/cola/permits/1813063078_1696440474.2194939/0/failsafe-3-3-2-sources-jar/dev/failsafe/TimeoutExceededException.java

1.3037 golang-org-x-exp 0.0.0-20230817173708-d852ddb80c63

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1.3045 pbnjay-memory 0.0.0-20210728143218-7b4eea64cf58

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1.3046 github.com/pbnjay/memory 0.0.0-20210728143218-7b4eea64cf58

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1.3047 go-units 0.5.0

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1.3048 gojsonreference 0.0.0-20180127040603-bd5ef7bd5415

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1.3049 go-toml 1.9.4

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* Package changed from civil to toml.
* 'Local' prefix added to all structs.
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1.3050 goterm 1.0.4

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1.3053 go-shellwords 1.0.12

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1.3054 grpc-gateway 1.16.0

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include/bsd/sys/bitstring.h
include/bsd/sys/queue.h
include/bsd/sys/time.h
include/bsd/timeconv.h
include/bsd/vis.h
man/bitstring.3bsd
man/errc.3bsd
man/explicit_bzero.3bsd
man/fgetln.3bsd
man/fgetwln.3bsd
man/fpurge.3bsd
man/funopen.3bsd
man/getbsize.3bsd
man/heapsort.3bsd
man/nlist.3bsd
man/pwcache.3bsd
man/queue.3bsd
man/radixsort.3bsd
man/reallocarray.3bsd
man/reallocf.3bsd
man/setmode.3bsd
man/strmode.3bsd
man/strnstr.3bsd
man/strtoi.3bsd

man/strtou.3bsd
man/unvis.3bsd
man/vis.3bsd
man/wcslcpy.3bsd
src/getbsize.c
src/heapsort.c
src/merge.c
src/nlist.c
src/pwcache.c
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man/humanize_number.3bsd
man/stringlist.3bsd
man/timeval.3bsd
src/fmtcheck.c
src/humanize_number.c
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src/strtonum.c
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man/expand_number.3bsd
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src/fparseln.c

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man/readpassphrase.3bsd
man/strlcpy.3bsd
man/strtonum.3bsd
src/arc4random.c
src/arc4random_linux.h
src/arc4random_openbsd.h
src/arc4random_uniform.c
src/arc4random_unix.h
src/arc4random_win.h
src/closefrom.c
src/freezero.c
src/getentropy_aix.c
src/getentropy_bsd.c
src/getentropy_hpux.c
src/getentropy_hurd.c
src/getentropy_linux.c
src/getentropy_osx.c
src/getentropy_solaris.c
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1.3059 flask-apispec 0.11.4

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1.3061 flask-sse 1.0.0

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1.3062 ncurses 6.2+20201114-2+deb11u2

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This package is used for testing builds of ncurses.

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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Found in path(s):
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/reader/SyntaxError.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/reader/EOFError.java
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Found in path(s):
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/terminal/impl/PosixPtyTerminal.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/utils/Colors.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/style/StyleSource.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/terminal/impl/PosixSysTerminal.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/reader/impl/KillRing.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/utils/NonBlockingReader.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/builtins/InputRC.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-

jar/org/jline/style/StyleExpression.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/style/StyleFactory.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/terminal/Terminal.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/reader/Completer.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/terminal/impl/LineDisciplineTerminal.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/utils/NonBlockingReaderImpl.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/keymap/BindingReader.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/reader/impl/completer/FileNameCompleter.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/utils/Curses.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/builtins/NfaMatcher.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/reader/ParsedLine.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/utils/NonBlockingInputStreamImpl.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/reader/CompletingParsedLine.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/utils/StyleResolver.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/terminal/Size.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/utils/NonBlockingInputStream.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/reader/MaskingCallback.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/style/Styler.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/utils/NonBlocking.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/reader/History.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/utils/AttributedStringBuilder.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jna/win/Kernel32.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/terminal/impl/DumbTerminal.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/terminal/impl/ExternalTerminal.java
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* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/terminal/impl/ExecPty.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/reader/Expander.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/utils/WCWidth.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/terminal/impl/AbstractPosixTerminal.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/reader/Reference.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/terminal/impl/package-info.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/utils/InputStreamReader.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/utils/Levenshtein.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/utils/ShutdownHooks.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/terminal/impl/MouseSupport.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/utils/package-info.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/reader/Binding.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/reader/package-info.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/reader/impl/DefaultExpander.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/terminal/Cursor.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/builtins/Source.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/utils/DiffHelper.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/reader/impl/history/package-info.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/reader/Widget.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/reader/impl/completer/NullCompleter.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jna/win/WindowsAnsiWriter.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/reader/impl/completer/AggregateCompleter.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/reader/impl/completer/EnumCompleter.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/terminal/spi/Pty.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/utils/OSUtils.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/reader/impl/UndoTree.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-

jar/org/jline/terminal/impl/NativeSignalHandler.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/utils/AttributedString.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/utils/ExecHelper.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/terminal/impl/CursorSupport.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/utils/ClosedException.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/keymap/KeyMap.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/terminal/MouseEvent.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/reader/UserInterruptException.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/reader/Macro.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/terminal/Attributes.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/reader/impl/completer/package-info.java
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*
/opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/builtins/telnet/ConnectionFilter.java
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* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-

jar/org/jline/reader/impl/completer/StringsCompleter.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/utils/Status.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/reader/Editor.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-
jar/org/jline/terminal/impl/AbstractWindowsTerminal.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/reader/Candidate.java
*
/opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-
jar/org/jline/reader/impl/completer/ArgumentCompleter.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/utils/InfoCmp.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-
jar/org/jline/terminal/impl/AbstractPty.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/builtins/Tmux.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-
jar/org/jline/builtins/ConfigurationPath.java
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jar/org/jline/builtins/Completers.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-
jar/org/jline/console/impl/ConsoleEngineImpl.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/builtins/TTop.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-
jar/org/jline/reader/impl/DefaultHighlighter.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-
jar/org/jline/console/impl/SystemRegistryImpl.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-
jar/org/jline/console/impl/SystemHighlighter.java
*
/opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/builtins/Styles.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-
jar/org/jline/reader/impl/history/DefaultHistory.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-
jar/org/jline/terminal/TerminalBuilder.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-
jar/org/jline/widget/TailTipWidgets.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-
jar/org/jline/utils/AttributedCharSequence.java

* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/builtins/Nano.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/reader/impl/CompletionMatcherImpl.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/reader/LineReader.java
*
/opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/reader/PrintAboveWriter.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/console/impl/DefaultPrinter.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/console/ArgDesc.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/reader/impl/LineReaderImpl.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/utils/AttributedStyle.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/console/SystemRegistry.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/builtins/Commands.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/console/Printer.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/terminal/impl/AbstractTerminal.java
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*
/opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/builtins/telnet/ConnectionData.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/builtins/telnet/ConnectionManager.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/builtins/telnet/TelnetIO.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/builtins/telnet/Connection.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/builtins/telnet/ConnectionEvent.java
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* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jansi/solaris/SolarisNativePty.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/style/StyleResolver.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jna/win/JnaWinConsoleWriter.java

* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/style/StyleBundle.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/style/StyleBundleInvocationHandler.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/style/MemoryStyleSource.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/reader/impl/BufferImpl.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/reader/impl/SimpleMaskingCallback.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jansi/osx/OsXNativePty.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/utils/PumpReader.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/utils/WriterOutputStream.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jansi/freebsd/FreeBsdNativePty.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/style/NopStyleSource.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/utils/NonBlockingPumpInputStream.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/builtins/telnet/Telnet.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/style/StyledWriter.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jansi/win/JansiWinConsoleWriter.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/style/InterpolationHelper.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/builtins/ssh/ShellCommand.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/terminal/impl/AbstractWindowsConsoleWriter.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/reader/Buffer.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/builtins/ssh/ShellFactoryImpl.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/style/StyleColor.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jansi/linux/LinuxNativePty.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/utils/NonBlockingPumpReader.java
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* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/utils/AnsiWriter.java
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auto_left_margin, bw, bw
auto_right_margin, am, am
back_color_erase, bce, ut
can_change, ccc, cc
ceol_standout_glitch, xhp, xs

col_addr_glitch, xhpa, YA
cpi_changes_res, cpix, YF
cr_cancels_micro_mode, crxm, YB
dest_tabs_magic_smso, xt, xt
eat_newline_glitch, xenl, xn
erase_overstrike, eo, eo
generic_type, gn, gn
hard_copy, hc, hc
hard_cursor, chts, HC
has_meta_key, km, km
has_print_wheel, daisy, YC
has_status_line, hs, hs
hue_lightness_saturation, hls, hl
insert_null_glitch, in, in
lpi_changes_res, lpix, YG
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memory_below, db, db
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move_standout_mode, msgr, ms
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no_pad_char, npc,
NP
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non_rev_rmcup, nrrmc, NR
over_strike, os, os
prtr_silent, mc5i, 5i
row_addr_glitch, xvpa, YD
semi_auto_right_margin, sam, YE
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tilde_glitch, hz, hz
transparent_underline, ul, ul
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max_colors, colors, Co
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num_labels, nlab, Nl
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insert_padding, ip, ip
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label_on, smln, LO

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micro_down, mcud1, ZZ
micro_left, mcub1, Za
micro_right, mcuf1, Zb
micro_row_address, mvpa, Zc
micro_up, mcuu1, Zd
newline, nel, nw
order_of_pins, porder, Ze
orig_colors, oc, oc
orig_pair, op, op
pad_char, pad, pc
parm_dch, dch, DC
parm_delete_line, dl, DL
parm_down_cursor, cud, DO
parm_down_micro,
mcud, Zf
parm_ich, ich, IC
parm_index, indn, SF
parm_insert_line, il, AL
parm_left_cursor, cub, LE
parm_left_micro, mcub, Zg
parm_right_cursor, cuf, RI
parm_right_micro, mcuf, Zh
parm_rindex, rin, SR
parm_up_cursor, cuu, UP
parm_up_micro, mcuu, Zi
pkey_key, pfkey, pk
pkey_local, pfloc, pl
pkey_xmit, pfx, px
plab_norm, pln, pn
print_screen, mc0, ps
prtr_non, mc5p, pO
prtr_off, mc4, pf
prtr_on, mc5, po
pulse, pulse, PU
quick_dial, qdial, QD
remove_clock, rmclk, RC
repeat_char, rep, rp
req_for_input, rfi, RF
reset_1string, rs1, r1
reset_2string, rs2, r2
reset_3string, rs3, r3
reset_file, rf, rf
restore_cursor, rc, rc
row_address, vpa, cv
save_cursor, sc, sc

scroll_forward, ind, sf
scroll_reverse, ri, sr
select_char_set, scs, Zj
set_attributes, sgr, sa
set_background, setb, Sb
set_bottom_margin, smgb, Zk
set_bottom_margin_parm, smgbp, Zl
set_clock, sclk, SC
set_color_pair, scp, sp
set_foreground, setf, Sf
set_left_margin, smgl, ML
set_left_margin_parm, smglp, Zm
set_right_margin,
smgr, MR
set_right_margin_parm, smgrp, Zn
set_tab, hts, st
set_top_margin, smgt, Zo
set_top_margin_parm, smgtp, Zp
set_window, wind, wi
start_bit_image, sbim, Zq
start_char_set_def, scsd, Zr
stop_bit_image, rbim, Zs
stop_char_set_def, rcsd, Zt
subscript_characters, subcs, Zu
superscript_characters, supcs, Zv
tab, ht, ta
these_cause_cr, docr, Zw
to_status_line, tsl, ts
tone, tone, TO
underline_char, uc, uc
up_half_line, hu, hu
user0, u0, u0
user1, u1, u1
user2, u2, u2
user3, u3, u3
user4, u4, u4
user5, u5, u5
user6, u6, u6
user7, u7, u7
user8, u8, u8
user9, u9, u9
wait_tone, wait, WA
xoff_character, xoffc, XF
xon_character, xonc, XN
zero_motion, zerom, Zx
alt_scancode_esc, scesa, S8
bit_image_carriage_return, bicr, Yv
bit_image_newline, binel, Zz

bit_image_repeat, birep, Xy
char_set_names, csnm, Zy
code_set_init, csin, ci
color_names, colornm, Yw
define_bit_image_region, defbi, Yx
device_type, devt, dv
display_pc_char, dispc, S1
end_bit_image_region, endbi, Yy
enter_pc_charset_mode,
 smpch, S2
enter_scancode_mode, smsc, S4
exit_pc_charset_mode, rmpch, S3
exit_scancode_mode, rmsc, S5
get_mouse, getm, Gm
key_mouse, kmous, Km
mouse_info, minfo, Mi
pc_term_options, pctrm, S6
pkey_plab, pfxl, xl
req_mouse_pos, reqmp, RQ
scancode_escape, scesc, S7
set0_des_seq, s0ds, s0
set1_des_seq, s1ds, s1
set2_des_seq, s2ds, s2
set3_des_seq, s3ds, s3
set_a_background, setab, AB
set_a_foreground, setaf, AF
set_color_band, setcolor, Yz
set_lr_margin, smglr, ML
set_page_length, slines, YZ
set_tb_margin, smgtb, MT
enter_horizontal_hl_mode, ehhlm, Xh
enter_left_hl_mode, elhlm, Xl
enter_low_hl_mode, elohlm, Xo
enter_right_hl_mode, erhlm, Xr
enter_top_hl_mode, ethlm, Xt
enter_vertical_hl_mode, evhlm, Xv
set_a_attributes, sgr1, sA
set_pglen_inch, slength, sL

Found in path(s):
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/utils/capabilities.txt
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* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/META-INF/maven/org.jline/jline-terminal/pom.xml
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/META-INF/maven/org.jline/jline-remote-ssh/pom.xml

* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/META-INF/maven/org.jline/jline-remote-telnet/pom.xml
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/META-INF/maven/org.jline/jline-builtins/pom.xml
*
/opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/META-INF/maven/org.jline/jline-style/pom.xml
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/META-INF/maven/org.jline/jline-terminal-jansi/pom.xml
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/META-INF/maven/org.jline/jline-reader/pom.xml
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/META-INF/maven/org.jline/jline-console/pom.xml
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* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/console/ConsoleEngine.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/utils/Signals.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jansi/JansiNativePty.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jna/linux/LinuxNativePty.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jna/osx/CLibrary.java
*
/opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/widget/Widgets.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/reader/EndOfFileException.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jna/win/JnaWinSysTerminal.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jna/osx/OsXNativePty.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jna/JnaSupportImpl.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/console/CmdDesc.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jna/freebsd/FreeBsdNativePty.java

* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/reader/impl/ReaderUtils.java
*
/opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/reader/impl/completer/SystemCompleter.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jansi/JansiSupportImpl.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/console/CommandRegistry.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/console/impl/Builtins.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/reader/LineReaderBuilder.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jna/freebsd/CLibrary.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/widget/AutosuggestionWidgets.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/console/impl/JlineCommandRegistry.java
*
/opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/utils/Display.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/console/CmdLine.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jna/solaris/CLibrary.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/terminal/spi/JnaSupport.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jansi/win/JansiWinSysTerminal.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/console/impl/AbstractCommandRegistry.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/console/CommandMethods.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/console/ScriptEngine.java
*
/opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/reader/impl/DefaultParser.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/builtins/ConsoleOptionGetter.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jna/linux/CLibrary.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jna/JnaNativePty.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/terminal/spi/JansiSupport.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/widget/AutopairWidgets.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-

jar/org/jline/reader/CompletionMatcher.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/console/CommandInput.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/utils/Log.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/terminal/impl/jna/solaris/SolarisNativePty.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/utils/ColorPalette.java
* /opt/cola/permits/1816113706_1696831750.8310978/0/jline-3-21-0-sources-3-jar/org/jline/builtins/Less.java

1.3065 blang-semver 4.0.0

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1.3066 go-patricia 2.3.1

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<signature of Ty Coon>, 1 April 1989
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1.3070 golang 1.21.3

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1.3071 x-sys 0.13.0

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1.3072 x-crypto 0.14.0

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1.3074 windows-service-wrapper 2.3.0

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1.3075 golang 1.20.10

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1.3080 yargs-parser 20.2.9

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All
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Release	Derived from	Year	Owner	GPL-compatible? (1)

0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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1.3092 x-net 0.17.0

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1.3095 ema-qdisc 1.0.0

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1.3096 wifi 0.1.0

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1.3097 prometheus-alertmanager 0.26.0

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1.3098 dbus-python 1.3.2

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* The implementation was written so as to conform with Netscapes SSL.
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1.3100 snake-yaml 2.7

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* /opt/cola/permits/1824352401_1711369216.094024/0/snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/external/com/google/gdata/util/common/base/UnicodeEscaper.java
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* /opt/cola/permits/1824352401_1711369216.094024/0/snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/parser/ParserImpl.java

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* /opt/cola/permits/1824352401_1711369216.094024/0/snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/tokens/TagTuple.java
* /opt/cola/permits/1824352401_1711369216.094024/0/snakeyaml-engine-2-7-sources-jar/org/snakeyaml/engine/v2/events/CollectionStartEvent.java
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Found in path(s):
* /opt/cola/permits/1824352401_1711369216.094024/0/snakeyaml-engine-2-7-sources-jar/META-

INF/maven/org.snakeyaml/snakeyaml-engine/pom.xml

1.3101 rsync 3.2.7

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1.3102 go-zookeeper 1.0.3

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1.3103 json-java 20231013

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1.3104 libcxxabi 1.1.10.5

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Manifest-Version: 1.0
Bnd-LastModified: 1695799258578
Bundle-ActivationPolicy: lazy
Bundle-Activator: org.xerial.snappy.SnappyBundleActivator
Bundle-Description: snappy-java: A fast compression/decompression libr
ary
Bundle-DocURL: http://www.xerial.org/
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: snappy-java: A fast compression/decompression library
Bundle-NativeCode: org/xerial/snappy/native/Windows/x86_64/snappyjava.
dll;osname=win32;processor=x86-64,org/xerial/snappy/native/Windows/x8
6_64/snappyjava.dll;osname=win32;processor=x64,org/xerial/snappy/nati
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libsnappyjava.so;osname=sunos;processor=sparc
Bundle-SymbolicName: org.xerial.snappy.snappy-java
Bundle-Vendor: xerial.org
Bundle-Version: 1.1.10.5
Created-By: 11.0.20 (Azul Systems, Inc.)
Export-Package: org.xerial.snappy;uses:="org.osgi.framework,org.xerial
.snappy.buffer,org.xerial.snappy.pool";version="1.1.10",org.xerial.sn
appy.buffer;version="1.1.10",org.xerial.snappy.pool;version="1.1.10"
Implementation-Title: snappy-java
Implementation-URL: https://github.com/xerial/snappy-java
Implementation-Vendor: xerial.org
Implementation-Vendor-Id: org.xerial.snappy
Implementation-Version: 1.1.10.5
Import-Package: org.osgi.framework;version="[1.5,2)"
Private-Package:
 org.xerial.snappy.native.AIX.ppc,org.xerial.snappy.na
tive.AIX.ppc64,org.xerial.snappy.native.FreeBSD.x86_64,org.xerial.sna
ppy.native.Linux.aarch64,org.xerial.snappy.native.Linux.android-aarch
64,org.xerial.snappy.native.Linux.android-arm,org.xerial.snappy.nativ
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.native.Linux.ppc64,org.xerial.snappy.native.Linux.ppc64le,org.xerial
.snappy.native.Linux.riscv64,org.xerial.snappy.native.Linux.s390x,org
.xerial.snappy.native.Linux.x86,org.xerial.snappy.native.Linux.x86_64
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6,org.xerial.snappy.native.Mac.x86_64,org.xerial.snappy.native,org.xe
rial.snappy.native.SunOS.sparc,org.xerial.snappy.native.SunOS.x86,org
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arch64,org.xerial.snappy.native.Windows.x86,org.xerial.snappy.native.
Windows.x86_64
Require-Capability:
 osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Specification-Title: snappy-java
Specification-Vendor: xerial.org
Specification-Version: 1.1.10.5
Tool: Bnd-5.1.2.202007211702

Found in path(s):
* /opt/cola/permits/1825539415_1697666805.4214594/0/snappy-java-1-1-10-5-jar/META-INF/MANIFEST.MF

1.3105 python-setuptools 65.5.0

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member

of
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All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above				
2.1.1		2001-now	PSF	yes

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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1.3107 github.com/distribution/reference 0.5.0

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1.3108 ruamel.yaml 0.17.28

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1.3109 jmespath 0.16.0

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1.3110 go-jose 2.6.0

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1.3111 go-uuid 1.2.0

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1.3112 guava 32.1.3-jre

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1.3113 python-certifi 2022.12.7

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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v
 $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.3114 python-certifi 2022.12.07

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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
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@(#) $RCSfile: certdata.txt,v
$ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.3115 python-certifi 2023.07.22

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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
It contains the certificates in PEM format and therefore
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$ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
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machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
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If distribution of object code is made by offering access to copy
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uses the
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany
the work with the complete corresponding
machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood

that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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Version 3, 29 June 2007

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1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

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1.3122 google-golang-org-grpc 1.59.0

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1.3127 ini 1.51.0

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1.3128 word-wrap 1.2.4

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1.3129 json-editor 9.9.2

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1.3130 webpack 5.76.1

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1.3131 terser 5.15.1

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1.3132 ulikunitz-xz 0.5.10

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package main

import (
 "bufio"
 "bytes"
 "flag"
 "fmt"
 "io"
 "log"
 "os"
 "path/filepath"
 "strings"
)

const crUsageString = `xb copyright [options] <path>....

The xb copyright command adds a copyright remark to all go files below path.

 -h  prints this message and exits
`

func crUsage(w io.Writer) {
 fmt.Fprint(w, crUsageString)
}

const copyrightText = `
```

```
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`

func goComment(text string) string {
 buf := new(bytes.Buffer)
 scanner := bufio.NewScanner(strings.NewReader(text))
 var err error
 for scanner.Scan() {
  s := strings.TrimSpace(scanner.Text())
  if len(s) == 0 {
   continue
  }
  if _, err = fmt.Fprintln(buf, "//", s); err != nil {
   panic(err)
  }
 }
 if err
 = scanner.Err(); err != nil {
  panic(err)
 }
 if _, err = fmt.Fprintln(buf); err != nil {
  panic(err)
 }
 return buf.String()
}

var goCopyright = goComment(copyrightText)

func addCopyright(path string) (err error) {
 log.Printf("adding copyright to %s", path)
 src, err := os.Open(path)
 if err != nil {
  return err
 }
 defer func() {
  cerr := src.Close()
  if cerr != nil && err == nil {
   err = cerr
  }
 }()
 newPath := path + ".new"
 dst, err := os.Create(newPath)
 if err != nil {
  return err
 }
 defer func() {
```

```
 cerr := dst.Close()
 if cerr != nil && err == nil {
  err = cerr
 }
}()
out := bufio.NewWriter(dst)
fmt.Fprint(out, goCopyright)
scanner := bufio.NewScanner(src)
line := 0
del := false
for scanner.Scan() {
 line++
 txt := scanner.Text()
 if line == 1 && strings.Contains(txt, "Copyright") {
  del = true
  continue
 }
 if del {
  s := strings.TrimSpace(txt)
  if len(s) == 0 {
   del = false
  }
  continue
 }
 fmt.Fprintln(out, txt)
}
if err = scanner.Err();
err != nil {
 return err
}
if err = out.Flush(); err != nil {
 return
}
err = os.Rename(newPath, path)
return
}

func walkCopyrights(path string, info os.FileInfo, err error) error {
 if err != nil {
  return err
 }
 if info.IsDir() {
  return nil
 }
 if !strings.HasSuffix(info.Name(), ".go") {
  return nil
 }
 return addCopyright(path)
```

```
}

func copyright() {
 cmdName := os.Args[0]
 log.SetPrefix(fmt.Sprintf("%s: ", cmdName))
 log.SetFlags(0)

 flag.CommandLine = flag.NewFlagSet(cmdName, flag.ExitOnError)
 flag.Usage = func() { crUsage(os.Stderr); os.Exit(1) }

 help := flag.Bool("h", false, "")

 flag.Parse()

 if *help {
  crUsage(os.Stdout)
  os.Exit(0)
 }

 for _, path := range flag.Args() {
  fi, err := os.Stat(path)
  if err != nil {
   log.Print(err)
   continue
  }
  if !fi.IsDir() {
   log.Printf("%s is not a directory", path)
   continue
  }
  if err = filepath.Walk(path, walkCopyrights); err != nil {
   log.Fatalf("%s error %s", path, err)
  }
 }
}
package main

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1.3133 immer 9.0.16

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1.3137 go-uuid 1.2.1-0.20181028125025-b2ce2384e17b

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1.3138 google-go-cmp 0.6.0

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1.3139 miekg-dns 1.1.56

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1.3140 influxdb 1.9.4

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1.3141 python-setuptools 68.1.2

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1.3143 eiannone-keyboard 0.0.0-20220611211555-0d226195f203

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1.3144 gjson 1.11.0

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1.3145 marshmallow 3.19.0

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1.3146 go-proxyproto 0.0.0-20190615163442-2c19fd512994

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1.3147 github.com/sagikazarmark/slog-shim 0.1.0

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1.3148 flannel-io-cni-plugin 1.2.0

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1.3149 combined-stream 1.0.8

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1.3150 delayed-stream 1.0.0

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delayed-stream

Buffers events from a stream until you are ready to handle them.

Installation

```bash
npm install delayed-stream
```

Usage

The following example shows how to write a http echo server that delays its response by 1000 ms.

```javascript
var DelayedStream = require('delayed-stream');
var http = require('http');

http.createServer(function(req, res) {
 var delayed = DelayedStream.create(req);

 setTimeout(function() {
   res.writeHead(200);
   delayed.pipe(res);
 }, 1000);
});
```

If you are not using `Stream#pipe`, you can also manually release the buffered events by calling `delayedStream.resume()`:

```javascript
var delayed = DelayedStream.create(req);

setTimeout(function() {
 // Emit all buffered events and resume underlaying source
 delayed.resume();
}, 1000);
```

Implementation

In order to use this meta stream properly, here are a few things you should know about the implementation.

Event Buffering / Proxying

All events of the `source` stream are hijacked by overwriting the `source.emit` method. Until node implements a catch-all event listener, this is the only way.

However, delayed-stream still continues to emit all events it captures on the `source`, regardless of whether you have released the delayed stream yet or

not.

Upon creation, delayed-stream captures all `source` events and stores them in an internal event buffer. Once `delayedStream.release()` is called, all buffered events are emitted on the `delayedStream`, and the event buffer is cleared. After that, delayed-stream merely acts as a proxy for the underlaying source.

Error handling

Error events on `source` are buffered / proxied just like any other events. However, `delayedStream.create` attaches a no-op `'error'` listener to the `source`. This way you only have to handle errors on the `delayedStream` object, rather than in two places.

Buffer limits

delayed-stream provides
 a `maxDataSize` property that can be used to limit
the amount of data being buffered. In order to protect you from bad `source` streams that don't react to `source.pause()`, this feature is enabled by default.

API

DelayedStream.create(source, [options])

Returns a new `delayedStream`. Available options are:

* `pauseStream`
* `maxDataSize`

The description for those properties can be found below.

delayedStream.source

The `source` stream managed by this object. This is useful if you are passing your `delayedStream` around, and you still want to access properties on the `source` object.

delayedStream.pauseStream = true

Whether to pause the underlaying `source` when calling `DelayedStream.create()`. Modifying this property afterwards has no effect.

delayedStream.maxDataSize = 1024 * 1024

The amount of data to buffer before emitting an `error`.

If the underlaying source is emitting `Buffer` objects, the `maxDataSize`
refers to bytes.

If the underlaying source
 is emitting JavaScript strings, the size refers to
characters.

If you know what you are doing, you can set this property to `Infinity` to
disable this feature. You can also modify this property during runtime.

delayedStream.dataSize = 0

The amount of data buffered so far.

delayedStream.readable

An ECMA5 getter that returns the value of `source.readable`.

delayedStream.resume()

If the `delayedStream` has not been released so far, `delayedStream.release()`
is called.

In either case, `source.resume()` is called.

delayedStream.pause()

Calls `source.pause()`.

delayedStream.pipe(dest)

Calls `delayedStream.resume()` and then proxies the arguments to `source.pipe`.

delayedStream.release()

Emits and clears all events that have been buffered up so far. This does not
resume the underlaying source, use `delayedStream.resume()` instead.

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* /opt/cola/permits/1830745388_1698153819.4839122/0/fis-components-delayed-stream-1-0-0-0-g42ac44e-1-tar-gz/fis-components-delayed-stream-3c3d86f/Readme.md

1.3151 side-channel 1.0.4

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1.3152 function-bind 1.1.1

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1.3153 gensync 1.0.0-beta.2

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1.3154 js-tokens 4.0.0

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1.3155 @jridgewell/set-array 1.1.2

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1.3156 globals 11.12.0

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1.3160 chalk 2.4.2

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1.3161 depd 2.0.0

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1.3162 to-fast-properties 2.0.0

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1.3163 call-bind 1.0.2

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1.3164 @babel/code-frame 7.22.13

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1.3165 @babel/highlight 7.22.20

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1.3166 ntplib 0.4.0

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1.3167 loose-envify 1.4.0

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1.3168 @babel/helper-environment-visitor 7.22.20

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1.3169 @babel/generator 7.23.0

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1.3170 @babel/helper-split-export-declaration 7.22.6

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1.3171 @babel/helper-function-name 7.23.0

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1.3172 @babel/types 7.23.0

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1.3173 @babel/helper-string-parser 7.22.5

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1.3174 @babel/parser 7.23.0

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1.3175 @babel/helper-hoist-variables 7.22.5

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1.3176 @babel/template 7.22.15

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1.3177 mkdirp 3.0.1

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1.3178 @babel/plugin-proposal-export-namespace-from 7.18.9

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1.3179 @babel/plugin-syntax-export-namespace-from 7.8.3

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1.3180 @babel/plugin-syntax-dynamic-import 7.8.3

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1.3181 prop-types 15.8.1

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1.3182 fresh 0.5.2

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1.3183 openssl 3.0.11-1~deb12u2

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com.github.jnr jnr-unixsocket 0.36

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==========

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src/main/misc/overloadedNumberRules/prices.ods
src/manual/en_US/docgen-originals/figures/overview.odg

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

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module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.3189 nimbus-jose-jwt 9.24.3

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1.3190 supports-color 5.5.0

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1.3191 function-bind 1.1.2

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* /opt/cola/permits/1833602430_1698392687.177041/0/asm-9-6-sources-jar/org/objectweb/asm/Type.java
* /opt/cola/permits/1833602430_1698392687.177041/0/asm-9-6-sources-jar/org/objectweb/asm/ClassVisitor.java
* /opt/cola/permits/1833602430_1698392687.177041/0/asm-9-6-sources-jar/org/objectweb/asm/AnnotationWriter.java
* /opt/cola/permits/1833602430_1698392687.177041/0/asm-9-6-sources-jar/org/objectweb/asm/Attribute.java
* /opt/cola/permits/1833602430_1698392687.177041/0/asm-9-6-sources-jar/org/objectweb/asm/ClassTooLargeException.java
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* /opt/cola/permits/1833602430_1698392687.177041/0/asm-9-6-sources-jar/org/objectweb/asm/ModuleVisitor.java

*
/opt/cola/permits/1833602430_1698392687.177041/0/asm-9-6-sources-jar/org/objectweb/asm/TypeReference.java
* /opt/cola/permits/1833602430_1698392687.177041/0/asm-9-6-sources-jar/org/objectweb/asm/Constants.java
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* /opt/cola/permits/1833602430_1698392687.177041/0/asm-9-6-sources-jar/org/objectweb/asm/signature/package.html
* /opt/cola/permits/1833602430_1698392687.177041/0/asm-9-6-sources-jar/org/objectweb/asm/package.html

1.3195 ip-regex 5.0.0

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Files: snappy/*
Files: internal/snapref/*

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1.3197 github.com/containerd/cgroups/v3 3.0.1

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1.3198 lombok 1.18.30

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1.3200 swagger-ui-dist 3.20.7

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var base64=__webpack_require__(382);var ieee754=__webpack_require__(383);var isArray=__webpack_require__(384);exports.Buffer=Buffer;exports.SlowBuffer=SlowBuffer;exports.INSPECT_MAX_BYTES=50;Buffer.TYPED_ARRAY_SUPPORT=global.TYPED_ARRAY_SUPPORT!==undefined?global.TYPED_ARRAY_SUPPORT:typedArraySupport();exports.kMaxLength=kMaxLength();function typedArraySupport(){try{var arr=new Uint8Array(1);arr.__proto__={__proto__:Uint8Array.prototype,foo:function(){return 42}};return arr.foo()===42&&typeof arr.subarray==="function"&&arr.subarray(1,1).byteLength===0}catch(e){return false}}function kMaxLength(){return Buffer.TYPED_ARRAY_SUPPORT?2147483647:1073741823}function createBuffer(that,length){if(kMaxLength()<length){throw new RangeError("Invalid typed array length")}if(Buffer.TYPED_ARRAY_SUPPORT){that=new Uint8Array(length);that.__proto__=Buffer.prototype}else{if(that===null){that=new Buffer(length)}that.length=length}return that}function Buffer(arg,encodingOrOffset,length){if(!Buffer.TYPED_ARRAY_SUPPORT&&!(this instanceof Buffer)){return new Buffer(arg,encodingOrOffset,length)}if(typeof arg==="number"){if(typeof

encodingOrOffset=="string"){throw new Error("If encoding is specified then the first argument must be a string")}return allocUnsafe(this,arg)}return from(this,arg,encodingOrOffset,length)}Buffer.poolSize=8192;Buffer._augment=function(arr){arr.__proto__=Buffer.prototype;return arr};function from(that,value,encodingOrOffset,length){if(typeof value=="number"){throw new TypeError('"value" argument must not be a number')}if(typeof ArrayBuffer!=="undefined"&&value instanceof ArrayBuffer){return fromArrayBuffer(that,value,encodingOrOffset,length)}if(typeof value=="string"){return fromString(that,value,encodingOrOffset)}return fromObject(that,value)}Buffer.from=function(value,encodingOrOffset,length){return from(null,value,encodingOrOffset,length)};if(Buffer.TYPED_ARRAY_SUPPORT){Buffer.prototype.__proto__=Uint8Array.prototype;Buffer.__proto__=Uint8Array;if(typeof Symbol!=="undefined"&&Symbol.species&&Buffer[Symbol.species]===Buffer){Object.defineProperty(Buffer,Symbol.species,{value:null,configurable:true})}}function assertSize(size){if(typeof size!=="number"){throw new TypeError('"size" argument must be a number')}else if(size<0){throw new RangeError('"size" argument must not be negative')}}function alloc(that,size,fill,encoding){assertSize(size);if(size<=0){return createBuffer(that,size)}if(fill!=undefined){return typeof encoding=="string"?createBuffer(that,size).fill(fill,encoding):createBuffer(that,size).fill(fill)}return createBuffer(that,size)}Buffer.alloc=function(size,fill,encoding){return alloc(null,size,fill,encoding)};function allocUnsafe(that,size){assertSize(size);that=createBuffer(that,size<0?0:checked(size)|0);if(!Buffer.TYPED_ARRAY_SUPPORT){for(var i=0;i<size;++i){that[i]=0}}return that}Buffer.allocUnsafe=function(size){return allocUnsafe(null,size)};Buffer.allocUnsafeSlow=function(size){return allocUnsafe(null,size)};function fromString(that,string,encoding){if(typeof encoding!=="string"||encoding=="""){encoding="utf8"}if(!Buffer.isEncoding(encoding)){throw new TypeError('"encoding" must be a valid string encoding')}var length=byteLength(string,encoding)|0;that=createBuffer(that,length);var actual=that.write(string,encoding);if(actual!==length){that=that.slice(0,actual)}return that}function fromArrayLike(that,array){var length=array.length<0?0:checked(array.length)|0;that=createBuffer(that,length);for(var i=0;i<length;i+=1){that[i]=array[i]&255}return that}function fromArrayBuffer(that,array,byteOffset,length){array.byteLength;if(byteOffset<0||array.byteLength<byteOffset){throw new RangeError("'offset' is out of bounds")}if(array.byteLength<byteOffset+(length||0)){throw new RangeError("'length' is out of bounds")}if(byteOffset==undefined&&length==undefined){array=new Uint8Array(array)}else if(length==undefined){array=new Uint8Array(array,byteOffset)}else{array=new Uint8Array(array,byteOffset,length)}if(Buffer.TYPED_ARRAY_SUPPORT){that=array;that.__proto__=Buffer.prototype}else{that=fromArrayLike(that,array)}return that}function fromObject(that,obj){if(Buffer.isBuffer(obj)){var len=checked(obj.length)|0;that=createBuffer(that,len);if(that.length==0){return that}obj.copy(that,0,0,len);return that}if(obj){if(typeof ArrayBuffer!=="undefined"&&obj.buffer instanceof ArrayBuffer||"length"in obj){if(typeof obj.length!=="number"||isnan(obj.length)){return createBuffer(that,0)}return fromArrayLike(that,obj)}if(obj.type=="Buffer"&&isArray(obj.data)){return fromArrayLike(that,obj.data)}}throw new TypeError("First argument must be a string, Buffer, ArrayBuffer, Array, or array-like object.")}function checked(length){if(length>=kMaxLength()){throw new RangeError("Attempt to allocate Buffer larger than maximum "+"size: 0x"+kMaxLength().toString(16)+" bytes")}return length|0}function SlowBuffer(length){if(+length!=length){length=0}return Buffer.alloc(+length)}Buffer.isBuffer=function isBuffer(b){return!!(b!=null&&b._isBuffer)};Buffer.compare=function compare(a,b){if(!Buffer.isBuffer(a)||!Buffer.isBuffer(b)){throw new TypeError("Arguments must be Buffers")}if(a==b)return 0;var x=a.length;var y=b.length;for(var i=0,len=Math.min(x,y);i<len;++i){if(a[i]!==b[i]){x=a[i];y=b[i];break}}if(x<y)return-1;if(y<x)return 1;return 0};Buffer.isEncoding=function

```
isEncoding(encoding){switch(String(encoding).toLowerCase()){case"hex":case"utf8":case"utf-
8":case"ascii":case"latin1":case"binary":case"base64":case"ucs2":case"ucs-2":case"utf16le":case"utf-16le":return
true;default:return false}};Buffer.concat=function concat(list,length){if(!isArray(list)){throw new TypeError('"list"
argument must be an Array of Buffers')}if(list.length===0){return Buffer.alloc(0)}var
i;if(length===undefined){length=0;for(i=0;i<list.length;++i){length+=list[i].length}}var
buffer=Buffer.allocUnsafe(length);var pos=0;for(i=0;i<list.length;++i){var
buf=list[i];if(!Buffer.isBuffer(buf)){throw
 new TypeError('"list" argument must be an Array of Buffers')}buf.copy(buffer,pos);pos+=buf.length}return
buffer};function byteLength(string,encoding){if(Buffer.isBuffer(string)){return string.length}if(typeof
ArrayBuffer!=="undefined"&&typeof ArrayBuffer.isView=="function"&&(ArrayBuffer.isView(string)||string
instanceof ArrayBuffer)){return string.byteLength}if(typeof string!=="string"){string=""+string}var
len=string.length;if(len===0)return 0;var
loweredCase=false;for(;;){switch(encoding){case"ascii":case"latin1":case"binary":return len;case"utf8":case"utf-
8":case undefined:return utf8ToBytes(string).length;case"ucs2":case"ucs-2":case"utf16le":case"utf-16le":return
len*2;case"hex":return len>>>1;case"base64":return base64ToBytes(string).length;default:if(loweredCase)return
utf8ToBytes(string).length;encoding=(""+encoding).toLowerCase();loweredCase=true}}}Buffer.byteLength=byteL
ength;function slowToString(encoding,start,end){var
loweredCase=false;if(start===undefined||start<0){start=0}if(start>this.length){return""}if(end===undefined||end>th
is.length){end=this.length}if(end<=0){return""}end>>>=0;start>>>=0;if(end<=start){return""}if(!encoding)encodi
ng="utf8";while(true){switch(encoding){case"hex":return
 hexSlice(this,start,end);case"utf8":case"utf-8":return utf8Slice(this,start,end);case"ascii":return
asciiSlice(this,start,end);case"latin1":case"binary":return latin1Slice(this,start,end);case"base64":return
base64Slice(this,start,end);case"ucs2":case"ucs-2":case"utf16le":case"utf-16le":return
utf16leSlice(this,start,end);default:if(loweredCase)throw new TypeError("Unknown encoding:
"+encoding);encoding=(encoding+"").toLowerCase();loweredCase=true}}}Buffer.prototype._isBuffer=true;functio
n swap(b,n,m){var i=b[n];b[n]=b[m];b[m]=i}Buffer.prototype.swap16=function swap16(){var
len=this.length;if(len%2!==0){throw new RangeError("Buffer size must be a multiple of 16-bits")}for(var
i=0;i<len;i+=2){swap(this,i,i+1)}return this};Buffer.prototype.swap32=function
 swap32(){var len=this.length;if(len%4!==0){throw new RangeError("Buffer size must be a multiple of 32-
bits")}for(var i=0;i<len;i+=4){swap(this,i,i+3);swap(this,i+1,i+2)}return this};Buffer.prototype.swap64=function
swap64(){var len=this.length;if(len%8!==0){throw new RangeError("Buffer size must be a multiple of 64-
bits")}for(var i=0;i<len;i+=8){swap(this,i,i+7);swap(this,i+1,i+6);swap(this,i+2,i+5);swap(this,i+3,i+4)}return
this};Buffer.prototype.toString=function toString(){var
length=this.length|0;if(length===0)return"";if(arguments.length===0)return utf8Slice(this,0,length);return
slowToString.apply(this,arguments)};Buffer.prototype.equals=function equals(b){if(!Buffer.isBuffer(b))throw new
TypeError("Argument must be a Buffer");if(this===b)return true;return
Buffer.compare(this,b)===0};Buffer.prototype.inspect=function inspect(){var str="";var
max=exports.INSPECT_MAX_BYTES;if(this.length>0){str=this.toString("hex",0,max).match(/.{2}/g).join("
");if(this.length>max)str+="
 ... "}return"<Buffer "+str+">"};Buffer.prototype.compare=function
compare(target,start,end,thisStart,thisEnd){if(!Buffer.isBuffer(target)){throw new TypeError("Argument must be a
Buffer")}if(start===undefined){start=0}if(end===undefined){end=target?target.length:0}if(thisStart===undefined)
{thisStart=0}if(thisEnd===undefined){thisEnd=this.length}if(start<0||end>target.length||thisStart<0||thisEnd>this.le
ngth){throw new RangeError("out of range index")}if(thisStart>=thisEnd&&start>=end){return
0}if(thisStart>=thisEnd){return-1}if(start>=end){return
1}start>>>=0;end>>>=0;thisStart>>>=0;thisEnd>>>=0;if(this===target)return 0;var x=thisEnd-thisStart;var y=end-
start;var len=Math.min(x,y);var thisCopy=this.slice(thisStart,thisEnd);var targetCopy=target.slice(start,end);for(var
i=0;i<len;++i){if(thisCopy[i]!==targetCopy[i]){x=thisCopy[i];y=targetCopy[i];break}}if(x<y)return-1;if(y<x)return
```

```
1;return 0};function bidirectionalIndexOf(buffer,val,byteOffset,encoding,dir){if(buffer.length===0)return-
1;if(typeof
 byteOffset=="string"){encoding=byteOffset;byteOffset=0}else
if(byteOffset>2147483647){byteOffset=2147483647}else if(byteOffset<-2147483648){byteOffset=-
2147483648}byteOffset=+byteOffset;if(isNaN(byteOffset)){byteOffset=dir?0:buffer.length-
1}if(byteOffset<0)byteOffset=buffer.length+byteOffset;if(byteOffset>=buffer.length){if(dir)return-1;else
byteOffset=buffer.length-1}else if(byteOffset<0){if(dir)byteOffset=0;else return-1}if(typeof
val=="string"){val=Buffer.from(val,encoding)}if(Buffer.isBuffer(val)){if(val.length===0){return-1}return
arrayIndexOf(buffer,val,byteOffset,encoding,dir)}else if(typeof
val=="number"){val=val&255;if(Buffer.TYPED_ARRAY_SUPPORT&&typeof
Uint8Array.prototype.indexOf=="function"){if(dir){return
Uint8Array.prototype.indexOf.call(buffer,val,byteOffset)}else{return
Uint8Array.prototype.lastIndexOf.call(buffer,val,byteOffset)}}return
arrayIndexOf(buffer,[val],byteOffset,encoding,dir)}throw new TypeError("val must be string, number or
 Buffer")}function arrayIndexOf(arr,val,byteOffset,encoding,dir){var indexSize=1;var arrLength=arr.length;var
valLength=val.length;if(encoding!==undefined){encoding=String(encoding).toLowerCase();if(encoding=="ucs2"||
encoding=="ucs-2"||encoding=="utf16le"||encoding=="utf-16le"){if(arr.length<2||val.length<2){return-
1}indexSize=2;arrLength/=2;valLength/=2;byteOffset/=2}}function read(buf,i){if(indexSize===1){return
buf[i]}else{return buf.readUInt16BE(i*indexSize)}}var i;if(dir){var foundIndex=-
1;for(i=byteOffset;i<arrLength;i++){if(read(arr,i)===read(val,foundIndex===-1?0:i-
foundIndex)){if(foundIndex===-1)foundIndex=i;if(i-foundIndex+1===valLength)return
foundIndex*indexSize}else{if(foundIndex!==-1)i-=i-foundIndex;foundIndex=-
1}}}else{if(byteOffset+valLength>arrLength)byteOffset=arrLength-valLength;for(i=byteOffset;i>=0;i--){var
found=true;for(var j=0;j<valLength;j++){if(read(arr,i+j)!==read(val,j)){found=false;break}}if(found)return
i}}return-1}Buffer.prototype.includes=function includes(val,byteOffset,encoding){return
 this.indexOf(val,byteOffset,encoding)!==-1};Buffer.prototype.indexOf=function
indexOf(val,byteOffset,encoding){return
bidirectionalIndexOf(this,val,byteOffset,encoding,true)};Buffer.prototype.lastIndexOf=function
lastIndexOf(val,byteOffset,encoding){return bidirectionalIndexOf(this,val,byteOffset,encoding,false)};function
hexWrite(buf,string,offset,length){offset=Number(offset)||0;var remaining=buf.length-
offset;if(!length){length=remaining}else{length=Number(length);if(length>remaining){length=remaining}}var
strLen=string.length;if(strLen%2!==0)throw new TypeError("Invalid hex
string");if(length>strLen/2){length=strLen/2}for(var i=0;i<length;++i){var
parsed=parseInt(string.substr(i*2,2),16);if(isNaN(parsed))return i;buf[offset+i]=parsed}return i}function
utf8Write(buf,string,offset,length){return blitBuffer(utf8ToBytes(string,buf.length-
offset),buf,offset,length)}function asciiWrite(buf,string,offset,length){return
blitBuffer(asciiToBytes(string),buf,offset,length)}function
 latin1Write(buf,string,offset,length){return asciiWrite(buf,string,offset,length)}function
base64Write(buf,string,offset,length){return blitBuffer(base64ToBytes(string),buf,offset,length)}function
ucs2Write(buf,string,offset,length){return blitBuffer(utf16leToBytes(string,buf.length-
offset),buf,offset,length)}Buffer.prototype.write=function
write(string,offset,length,encoding){if(offset===undefined){encoding="utf8";length=this.length;offset=0}else
if(length===undefined&&typeof offset=="string"){encoding=offset;length=this.length;offset=0}else
if(isFinite(offset)){offset=offset|0;if(isFinite(length)){length=length|0;if(encoding===undefined)encoding="utf8"}el
se{encoding=length;length=undefined}}else{throw new Error("Buffer.write(string, encoding, offset[, length]) is no
longer supported")}var remaining=this.length-
offset;if(length===undefined||length>remaining)length=remaining;if(string.length>0&&(length<0||offset<0)||offset>
this.length){throw new RangeError("Attempt
```

```
 to write outside buffer bounds")}if(!encoding)encoding="utf8";var
loweredCase=false;for(;;){switch(encoding){case"hex":return
hexWrite(this,string,offset,length);case"utf8":case"utf-8":return
utf8Write(this,string,offset,length);case"ascii":return
asciiWrite(this,string,offset,length);case"latin1":case"binary":return
latin1Write(this,string,offset,length);case"base64":return base64Write(this,string,offset,length);case"ucs2":case"ucs-
2":case"utf16le":case"utf-16le":return ucs2Write(this,string,offset,length);default:if(loweredCase)throw new
TypeError("Unknown encoding:
"+encoding);encoding=(""+encoding).toLowerCase();loweredCase=true}}};Buffer.prototype.toJSON=function
toJSON(){return{type:"Buffer",data:Array.prototype.slice.call(this._arr||this,0)}};function
base64Slice(buf,start,end){if(start===0&&end===buf.length){return base64.fromByteArray(buf)}else{return
base64.fromByteArray(buf.slice(start,end))}}function utf8Slice(buf,start,end){end=Math.min(buf.length,end);var
res=[];var
 i=start;while(i<end){var firstByte=buf[i];var codePoint=null;var
bytesPerSequence=firstByte>239?4:firstByte>223?3:firstByte>191?2:1;if(i+bytesPerSequence<=end){var
secondByte,thirdByte,fourthByte,tempCodePoint;switch(bytesPerSequence){case
1:if(firstByte<128){codePoint=firstByte}break;case
2:secondByte=buf[i+1];if((secondByte&192)===128){tempCodePoint=(firstByte&31)<<6|secondByte&63;if(temp
CodePoint>127){codePoint=tempCodePoint}}break;case
3:secondByte=buf[i+1];thirdByte=buf[i+2];if((secondByte&192)===128&&(thirdByte&192)===128){tempCodePo
int=(firstByte&15)<<12|(secondByte&63)<<6|thirdByte&63;if(tempCodePoint>2047&&(tempCodePoint<55296||te
mpCodePoint>57343)){codePoint=tempCodePoint}}break;case
4:secondByte=buf[i+1];thirdByte=buf[i+2];fourthByte=buf[i+3];if((secondByte&192)===128&&(thirdByte&192)=
==128&&(fourthByte&192)===128){tempCodePoint=(firstByte&15)<<18|(secondByte&63)<<12|(thirdByte&63)<
<6|fourthByte&63;if(tempCodePoint>65535&&tempCodePoint<1114112){codePoint=tempCodePoint}}}}if(codeP
oint===null){codePoint=65533;bytesPerSequence=1}else
 if(codePoint>65535){codePoint-
=65536;res.push(codePoint>>>10&1023|55296);codePoint=56320|codePoint&1023}res.push(codePoint);i+=bytesP
erSequence}return decodeCodePointsArray(res)}var MAX_ARGUMENTS_LENGTH=4096;function
decodeCodePointsArray(codePoints){var len=codePoints.length;if(len<=MAX_ARGUMENTS_LENGTH){return
String.fromCharCode.apply(String,codePoints)}var res="";var
i=0;while(i<len){res+=String.fromCharCode.apply(String,codePoints.slice(i,i+=MAX_ARGUMENTS_LENGTH))
}return res}function asciiSlice(buf,start,end){var ret="";end=Math.min(buf.length,end);for(var
i=start;i<end;++i){ret+=String.fromCharCode(buf[i]&127)}return ret}function latin1Slice(buf,start,end){var
ret="";end=Math.min(buf.length,end);for(var i=start;i<end;++i){ret+=String.fromCharCode(buf[i])}return
ret}function hexSlice(buf,start,end){var len=buf.length;if(!start||start<0)start=0;if(!end||end<0||end>len)end=len;var
out="";for(var i=start;i<end;++i){out+=toHex(buf[i])}return
 out}function utf16leSlice(buf,start,end){var bytes=buf.slice(start,end);var res="";for(var
i=0;i<bytes.length;i+=2){res+=String.fromCharCode(bytes[i]+bytes[i+1]*256)}return
res}Buffer.prototype.slice=function slice(start,end){var
len=this.length;start=~~start;end=end===undefined?len:~~end;if(start<0){start+=len;if(start<0)start=0}else
if(start>len){start=len}if(end<0){end+=len;if(end<0)end=0}else if(end>len){end=len}if(end<start)end=start;var
newBuf;if(Buffer.TYPED_ARRAY_SUPPORT){newBuf=this.subarray(start,end);newBuf.__proto__=Buffer.prototot
ype}else{var sliceLen=end-start;newBuf=new Buffer(sliceLen,undefined);for(var
i=0;i<sliceLen;++i){newBuf[i]=this[i+start]}}return newBuf};function
checkOffset(offset,ext,length){if(offset%1!==0||offset<0)throw new RangeError("offset is not
uint");if(offset+ext>length)throw new RangeError("Trying to access beyond buffer
length")}Buffer.prototype.readUIntLE=function
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```
readUIntLE(offset,byteLength,noAssert){offset=offset|0;byteLength=byteLength|0;if(!noAssert)checkOffset(offset,
byteLength,this.length);var
 val=this[offset];var mul=1;var i=0;while(++i<byteLength&&(mul*=256)){val+=this[offset+i]*mul}return
val};Buffer.prototype.readUIntBE=function
readUIntBE(offset,byteLength,noAssert){offset=offset|0;byteLength=byteLength|0;if(!noAssert){checkOffset(offset
,byteLength,this.length)}var val=this[offset+--byteLength];var
mul=1;while(byteLength>0&&(mul*=256)){val+=this[offset+--byteLength]*mul}return
val};Buffer.prototype.readUInt8=function
readUInt8(offset,noAssert){if(!noAssert)checkOffset(offset,1,this.length);return
this[offset]};Buffer.prototype.readUInt16LE=function
readUInt16LE(offset,noAssert){if(!noAssert)checkOffset(offset,2,this.length);return
this[offset]|this[offset+1]<<8};Buffer.prototype.readUInt16BE=function
readUInt16BE(offset,noAssert){if(!noAssert)checkOffset(offset,2,this.length);return
this[offset]<<8|this[offset+1]};Buffer.prototype.readUInt32LE=function
readUInt32LE(offset,noAssert){if(!noAssert)checkOffset(offset,4,this.length);return(this[offset]|this[offset+1]<<8|th
is[offset+2]<<16)+this[offset+3]*16777216};Buffer.prototype.readUInt32BE=function
 readUInt32BE(offset,noAssert){if(!noAssert)checkOffset(offset,4,this.length);return
this[offset]*16777216+(this[offset+1]<<16|this[offset+2]<<8|this[offset+3])};Buffer.prototype.readIntLE=function
readIntLE(offset,byteLength,noAssert){offset=offset|0;byteLength=byteLength|0;if(!noAssert)checkOffset(offset,by
teLength,this.length);var val=this[offset];var mul=1;var
i=0;while(++i<byteLength&&(mul*=256)){val+=this[offset+i]*mul}mul*=128;if(val>=mul)val-
=Math.pow(2,8*byteLength);return val};Buffer.prototype.readIntBE=function
readIntBE(offset,byteLength,noAssert){offset=offset|0;byteLength=byteLength|0;if(!noAssert)checkOffset(offset,by
teLength,this.length);var i=byteLength;var mul=1;var val=this[offset+--
i];while(i>0&&(mul*=256)){val+=this[offset+--i]*mul}mul*=128;if(val>=mul)val-
=Math.pow(2,8*byteLength);return val};Buffer.prototype.readInt8=function
 readInt8(offset,noAssert){if(!noAssert)checkOffset(offset,1,this.length);if(!(this[offset]&128))return
this[offset];return(255-this[offset]+1)*-1};Buffer.prototype.readInt16LE=function
readInt16LE(offset,noAssert){if(!noAssert)checkOffset(offset,2,this.length);var
val=this[offset]|this[offset+1]<<8;return val&32768?val|4294901760:val};Buffer.prototype.readInt16BE=function
readInt16BE(offset,noAssert){if(!noAssert)checkOffset(offset,2,this.length);var
val=this[offset+1]|this[offset]<<8;return val&32768?val|4294901760:val};Buffer.prototype.readInt32LE=function
readInt32LE(offset,noAssert){if(!noAssert)checkOffset(offset,4,this.length);return
this[offset]|this[offset+1]<<8|this[offset+2]<<16|this[offset+3]<<24};Buffer.prototype.readInt32BE=function
readInt32BE(offset,noAssert){if(!noAssert)checkOffset(offset,4,this.length);return
this[offset]<<24|this[offset+1]<<16|this[offset+2]<<8|this[offset+3]};Buffer.prototype.readFloatLE=function
readFloatLE(offset,noAssert){if(!noAssert)checkOffset(offset,4,this.length);return
 ieee754.read(this,offset,true,23,4)};Buffer.prototype.readFloatBE=function
readFloatBE(offset,noAssert){if(!noAssert)checkOffset(offset,4,this.length);return
ieee754.read(this,offset,false,23,4)};Buffer.prototype.readDoubleLE=function
readDoubleLE(offset,noAssert){if(!noAssert)checkOffset(offset,8,this.length);return
ieee754.read(this,offset,true,52,8)};Buffer.prototype.readDoubleBE=function
readDoubleBE(offset,noAssert){if(!noAssert)checkOffset(offset,8,this.length);return
ieee754.read(this,offset,false,52,8)};function checkInt(buf,value,offset,ext,max,min){if(!Buffer.isBuffer(buf))throw
new TypeError('"buffer" argument must be a Buffer instance');if(value>max||value<min)throw new
RangeError('"value" argument is out of bounds');if(offset+ext>buf.length)throw new RangeError("Index out of
range")}Buffer.prototype.writeUIntLE=function
writeUIntLE(value,offset,byteLength,noAssert){value=+value;offset=offset|0;byteLength=byteLength|0;if(!noAsser
```

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t){var
 maxBytes=Math.pow(2,8*byteLength)-1;checkInt(this,value,offset,byteLength,maxBytes,0)}var mul=1;var
i=0;this[offset]=value&255;while(++i<byteLength&&(mul*=256)){this[offset+i]=value/mul&255}return
offset+byteLength};Buffer.prototype.writeUIntBE=function
writeUIntBE(value,offset,byteLength,noAssert){value=+value;offset=offset|0;byteLength=byteLength|0;if(!noAsser
t){var maxBytes=Math.pow(2,8*byteLength)-1;checkInt(this,value,offset,byteLength,maxBytes,0)}var
i=byteLength-1;var mul=1;this[offset+i]=value&255;while(--
i>=0&&(mul*=256)){this[offset+i]=value/mul&255}return
offset+byteLength};Buffer.prototype.writeUInt8=function
writeUInt8(value,offset,noAssert){value=+value;offset=offset|0;if(!noAssert)checkInt(this,value,offset,1,255,0);if(!
Buffer.TYPED_ARRAY_SUPPORT)value=Math.floor(value);this[offset]=value&255;return offset+1};function
objectWriteUInt16(buf,value,offset,littleEndian){if(value<0)value=65535+value+1;for(var
i=0,j=Math.min(buf.length-offset,2);i<j;++i){buf[offset+i]=(value&255<<8*(littleEndian?i:1-
i))>>>(littleEndian?i:1-i)*8}}Buffer.prototype.writeUInt16LE=function
writeUInt16LE(value,offset,noAssert){value=+value;offset=offset|0;if(!noAssert)checkInt(this,value,offset,2,65535,
0);if(Buffer.TYPED_ARRAY_SUPPORT){this[offset]=value&255;this[offset+1]=value>>>8}else{objectWriteUIn
t16(this,value,offset,true)}return offset+2};Buffer.prototype.writeUInt16BE=function
writeUInt16BE(value,offset,noAssert){value=+value;offset=offset|0;if(!noAssert)checkInt(this,value,offset,2,65535,
0);if(Buffer.TYPED_ARRAY_SUPPORT){this[offset]=value>>>8;this[offset+1]=value&255}else{objectWriteUIn
t16(this,value,offset,false)}return offset+2};function
objectWriteUInt32(buf,value,offset,littleEndian){if(value<0)value=4294967295+value+1;for(var
i=0,j=Math.min(buf.length-offset,4);i<j;++i){buf[offset+i]=value>>>(littleEndian?i:3-
i)*8&255}}Buffer.prototype.writeUInt32LE=function
writeUInt32LE(value,offset,noAssert){value=+value;offset=offset|0;if(!noAssert)checkInt(this,value,offset,4,42949
67295,0);if(Buffer.TYPED_ARRAY_SUPPORT){this[offset+3]=value>>>24;this[offset+2]=value>>>16;this[offse
t+1]=value>>>8;this[offset]=value&255}else{objectWriteUInt32(this,value,offset,true)}return
 offset+4};Buffer.prototype.writeUInt32BE=function
writeUInt32BE(value,offset,noAssert){value=+value;offset=offset|0;if(!noAssert)checkInt(this,value,offset,4,42949
67295,0);if(Buffer.TYPED_ARRAY_SUPPORT){this[offset]=value>>>24;this[offset+1]=value>>>16;this[offset+
2]=value>>>8;this[offset+3]=value&255}else{objectWriteUInt32(this,value,offset,false)}return
offset+4};Buffer.prototype.writeIntLE=function
writeIntLE(value,offset,byteLength,noAssert){value=+value;offset=offset|0;if(!noAssert){var
limit=Math.pow(2,8*byteLength-1);checkInt(this,value,offset,byteLength,limit-1,-limit)}var i=0;var mul=1;var
sub=0;this[offset]=value&255;while(++i<byteLength&&(mul*=256)){if(value<0&&sub===0&&this[offset+i-
1]!==0){sub=1}this[offset+i]=(value/mul>>0)-sub&255}return
offset+byteLength};Buffer.prototype.writeIntBE=function
 writeIntBE(value,offset,byteLength,noAssert){value=+value;offset=offset|0;if(!noAssert){var
limit=Math.pow(2,8*byteLength-1);checkInt(this,value,offset,byteLength,limit-1,-limit)}var i=byteLength-1;var
mul=1;var sub=0;this[offset+i]=value&255;while(--
i>=0&&(mul*=256)){if(value<0&&sub===0&&this[offset+i+1]!==0){sub=1}this[offset+i]=(value/mul>>0)-
sub&255}return offset+byteLength};Buffer.prototype.writeInt8=function
writeInt8(value,offset,noAssert){value=+value;offset=offset|0;if(!noAssert)checkInt(this,value,offset,1,127,-
128);if(!Buffer.TYPED_ARRAY_SUPPORT)value=Math.floor(value);if(value<0)value=255+value+1;this[offset]=
value&255;return offset+1};Buffer.prototype.writeInt16LE=function
writeInt16LE(value,offset,noAssert){value=+value;offset=offset|0;if(!noAssert)checkInt(this,value,offset,2,32767,-
32768);if(Buffer.TYPED_ARRAY_SUPPORT){this[offset]=value&255;this[offset+1]=value>>>8}else{objectWrit
eUInt16(this,value,offset,true)}return offset+2};Buffer.prototype.writeInt16BE=function
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 writeInt16BE(value,offset,noAssert){value=+value;offset=offset|0;if(!noAssert)checkInt(this,value,offset,2,32767,-
32768);if(Buffer.TYPED_ARRAY_SUPPORT){this[offset]=value>>>8;this[offset+1]=value&255}else{objectWrit
eUInt16(this,value,offset,false)}return offset+2};Buffer.prototype.writeInt32LE=function
writeInt32LE(value,offset,noAssert){value=+value;offset=offset|0;if(!noAssert)checkInt(this,value,offset,4,2147483
647,-
2147483648);if(Buffer.TYPED_ARRAY_SUPPORT){this[offset]=value&255;this[offset+1]=value>>>8;this[offset
+2]=value>>>16;this[offset+3]=value>>>24}else{objectWriteUInt32(this,value,offset,true)}return
offset+4};Buffer.prototype.writeInt32BE=function
writeInt32BE(value,offset,noAssert){value=+value;offset=offset|0;if(!noAssert)checkInt(this,value,offset,4,2147483
647,-
2147483648);if(value<0)value=4294967295+value+1;if(Buffer.TYPED_ARRAY_SUPPORT){this[offset]=value>
>>24;this[offset+1]=value>>>16;this[offset+2]=value>>>8;this[offset+3]=value&255}else{objectWriteUInt32(this,
value,offset,false)}return
 offset+4};function checkIEEE754(buf,value,offset,ext,max,min){if(offset+ext>buf.length)throw new
RangeError("Index out of range");if(offset<0)throw new RangeError("Index out of range")}function
writeFloat(buf,value,offset,littleEndian,noAssert){if(!noAssert){checkIEEE754(buf,value,offset,4,3.4028234663852
886e38,-3.4028234663852886e38)}ieee754.write(buf,value,offset,littleEndian,23,4);return
offset+4}Buffer.prototype.writeFloatLE=function writeFloatLE(value,offset,noAssert){return
writeFloat(this,value,offset,true,noAssert)};Buffer.prototype.writeFloatBE=function
writeFloatBE(value,offset,noAssert){return writeFloat(this,value,offset,false,noAssert)};function
writeDouble(buf,value,offset,littleEndian,noAssert){if(!noAssert){checkIEEE754(buf,value,offset,8,1.79769313486
23157e308,-1.7976931348623157e308)}ieee754.write(buf,value,offset,littleEndian,52,8);return
offset+8}Buffer.prototype.writeDoubleLE=function writeDoubleLE(value,offset,noAssert){return
 writeDouble(this,value,offset,true,noAssert)};Buffer.prototype.writeDoubleBE=function
writeDoubleBE(value,offset,noAssert){return
writeDouble(this,value,offset,false,noAssert)};Buffer.prototype.copy=function
copy(target,targetStart,start,end){if(!start)start=0;if(!end&&end!==0)end=this.length;if(targetStart>=target.length)ta
rgetStart=target.length;if(!targetStart)targetStart=0;if(end>0&&end<start)end=start;if(end===start)return
0;if(target.length===0||this.length===0)return 0;if(targetStart<0){throw new RangeError("targetStart out of
bounds")}if(start<0||start>=this.length)throw new RangeError("sourceStart out of bounds");if(end<0)throw new
RangeError("sourceEnd out of bounds");if(end>this.length)end=this.length;if(target.length-targetStart<end-
start){end=target.length-targetStart+start}var len=end-start;var
i;if(this===target&&start<targetStart&&targetStart<end){for(i=len-1;i>=0;--
i){target[i+targetStart]=this[i+start]}}else
if(len<1e3||!Buffer.TYPED_ARRAY_SUPPORT){for(i=0;i<len;++i){target[i+targetStart]=this[i+start]}}else{Uint
8Array.prototype.set.call(target,this.subarray(start,start+len),targetStart)}return
 len};Buffer.prototype.fill=function fill(val,start,end,encoding){if(typeof val=="string"){if(typeof
start=="string"){encoding=start;start=0;end=this.length}else if(typeof
end=="string"){encoding=end;end=this.length}if(val.length===1){var
code=val.charCodeAt(0);if(code<256){val=code}}if(encoding!==undefined&&typeof encoding!=="string"){throw
new TypeError("encoding must be a string")}if(typeof
encoding=="string"&&!Buffer.isEncoding(encoding)){throw new TypeError("Unknown encoding:
"+encoding)}}else if(typeof val=="number"){val=val&255}if(start<0||this.length<start||this.length<end){throw
new RangeError("Out of range index")}if(end<=start){return
this}start=start>>>0;end=end===undefined?this.length:end>>>0;if(!val)val=0;var i;if(typeof
val=="number"){for(i=start;i<end;++i){this[i]=val}}else{var bytes=Buffer.isBuffer(val)?val:utf8ToBytes(new
Buffer(val,encoding).toString());var
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 len=bytes.length;for(i=0;i<end-start;++i){this[i+start]=bytes[i%len]}}return this};var
INVALID_BASE64_RE=/[^+\/0-9A-Za-z-_]/g;function
base64clean(str){str=stringtrim(str).replace(INVALID_BASE64_RE,"");if(str.length<2)return"";while(str.length%4
!==0){str=str+"="}return str}function stringtrim(str){if(str.trim)return str.trim();return
str.replace(/^\s+|\s+$/g,"")}function toHex(n){if(n<16)return"0"+n.toString(16);return n.toString(16)}function
utf8ToBytes(string,units){units=units||Infinity;var codePoint;var length=string.length;var leadSurrogate=null;var
bytes=[];for(var
i=0;i<length;++i){codePoint=string.charCodeAt(i);if(codePoint>55295&&codePoint<57344){if(!leadSurrogate){if(
codePoint>56319){if((units-=3)>-1)bytes.push(239,191,189);continue}else if(i+1===length){if((units-=3)>-
1)bytes.push(239,191,189);continue}leadSurrogate=codePoint;continue}if(codePoint<56320){if((units-=3)>-
1)bytes.push(239,191,189);leadSurrogate=codePoint;continue}codePoint=(leadSurrogate-55296<<10|codePoint-
56320)+65536}else
 if(leadSurrogate){if((units-=3)>-1)bytes.push(239,191,189)}leadSurrogate=null;if(codePoint<128){if((units-
=1)<0)break;bytes.push(codePoint)}else if(codePoint<2048){if((units-
=2)<0)break;bytes.push(codePoint>>6|192,codePoint&63|128)}else if(codePoint<65536){if((units-
=3)<0)break;bytes.push(codePoint>>12|224,codePoint>>6&63|128,codePoint&63|128)}else
if(codePoint<1114112){if((units-
=4)<0)break;bytes.push(codePoint>>18|240,codePoint>>12&63|128,codePoint>>6&63|128,codePoint&63|128)}els
e{throw new Error("Invalid code point")}}return bytes}function asciiToBytes(str){var byteArray=[];for(var
i=0;i<str.length;++i){byteArray.push(str.charCodeAt(i)&255)}return byteArray}function
utf16leToBytes(str,units){var c,hi,lo;var byteArray=[];for(var i=0;i<str.length;++i){if((units-
=2)<0)break;c=str.charCodeAt(i);hi=c>>8;lo=c%256;byteArray.push(lo);byteArray.push(hi)}return
byteArray}function base64ToBytes(str){return base64.toByteArray(base64clean(str))}function
 blitBuffer(src,dst,offset,length){for(var
i=0;i<length;++i){if(i+offset>=dst.length||i>=src.length)break;dst[i+offset]=src[i]}return i}function
isnan(val){return
val!==val}}).call(exports,__webpack_require__(181))},function(module,exports){module.exports=require("base64-
js")},function(module,exports){module.exports=require("ieee754")},function(module,exports){module.exports=req
uire("isarray")},function(module,exports,__webpack_require__){module.exports={default:__webpack_require__(3
86),__esModule:true}},function(module,exports,__webpack_require__){__webpack_require__(77);__webpack_req
uire__(61);module.exports=__webpack_require__(387)},function(module,exports,__webpack_require__){var
classof=__webpack_require__(111);var ITERATOR=__webpack_require__(14)("iterator");var
Iterators=__webpack_require__(45);module.exports=__webpack_require__(10).isIterable=function(it){var
O=Object(it);return O[ITERATOR]!==undefined||"@@iterator"in
O||Iterators.hasOwnProperty(classof(O))}},function(module,exports,__webpack_require__){"use
 strict";var invalidPrototcolRegex=/^(%20|\s)*(javascript|data)/im;var ctrlCharactersRegex=/[^\x20-\x7E]/gim;var
urlSchemeRegex=/^([^:]+):/gm;var relativeFirstCharacters=[".","/"];function isRelativeUrl(url){return
relativeFirstCharacters.indexOf(url[0])>-1}function sanitizeUrl(url){var urlScheme,urlSchemeParseResults;var
sanitizedUrl=url.replace(ctrlCharactersRegex,"");if(isRelativeUrl(sanitizedUrl)){return
sanitizedUrl}urlSchemeParseResults=sanitizedUrl.match(urlSchemeRegex);if(!urlSchemeParseResults){return"abo
ut:blank"}urlScheme=urlSchemeParseResults[0];if(invalidPrototcolRegex.test(urlScheme)){return"about:blank"}ret
urn sanitizedUrl}module.exports={sanitizeUrl:sanitizeUrl}},function(module,exports,__webpack_require__){var
capitalize=__webpack_require__(390),createCompounder=__webpack_require__(399);var
camelCase=createCompounder(function(result,word,index){word=word.toLowerCase();return
result+(index?capitalize(word):word)});module.exports=camelCase},function(module,exports,__webpack_require_
_){var
 toString=__webpack_require__(51),upperFirst=__webpack_require__(184);function capitalize(string){return
upperFirst(toString(string).toLowerCase())}module.exports=capitalize},function(module,exports,__webpack_requir
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e__){var
Symbol=__webpack_require__(52),arrayMap=__webpack_require__(183),isArray=__webpack_require__(20),isSymbol=__webpack_require__(91);var INFINITY=1/0;var
symbolProto=Symbol?Symbol.prototype:undefined,symbolToString=symbolProto?symbolProto.toString:undefined;function baseToString(value){if(typeof value=="string"){return value}if(isArray(value)){return
arrayMap(value,baseToString)+""}if(isSymbol(value)){return symbolToString?symbolToString.call(value):""}var result=value+"";return result=="0"&&1/value==-INFINITY?"-0":result}module.exports=baseToString},function(module,exports,__webpack_require__){var
Symbol=__webpack_require__(52);var objectProto=Object.prototype;var
hasOwnProperty=objectProto.hasOwnProperty;var nativeObjectToString=objectProto.toString;var
symToStringTag=Symbol?Symbol.toStringTag:undefined;function getRawTag(value){var
isOwn=hasOwnProperty.call(value,symToStringTag),tag=value[symToStringTag];try{value[symToStringTag]=undefined;var unmasked=true}catch(e){}var
result=nativeObjectToString.call(value);if(unmasked){if(isOwn){value[symToStringTag]=tag}else{delete
value[symToStringTag]}}return result}module.exports=getRawTag},function(module,exports){var
objectProto=Object.prototype;var nativeObjectToString=objectProto.toString;function objectToString(value){return
nativeObjectToString.call(value)}module.exports=objectToString},function(module,exports,__webpack_require__){var
castSlice=__webpack_require__(395),hasUnicode=__webpack_require__(186),stringToArray=__webpack_require__(396),toString=__webpack_require__(51);function createCaseFirst(methodName){return
function(string){string=toString(string);var strSymbols=hasUnicode(string)?stringToArray(string):undefined;var
chr=strSymbols?strSymbols[0]:string.charAt(0);var
trailing=strSymbols?castSlice(strSymbols,1).join(""):string.slice(1);return
chr[methodName]()+trailing}}module.exports=createCaseFirst},function(module,exports,__webpack_require__){var baseSlice=__webpack_require__(185);function castSlice(array,start,end){var
length=array.length;end=end===undefined?length:end;return!start&&end>=length?array:baseSlice(array,start,end)}module.exports=castSlice},function(module,exports,__webpack_require__){var
asciiToArray=__webpack_require__(397),hasUnicode=__webpack_require__(186),unicodeToArray=__webpack_require__(398);function stringToArray(string){return
hasUnicode(string)?unicodeToArray(string):asciiToArray(string)}module.exports=stringToArray},function(module,exports){function asciiToArray(string){return
string.split("")}module.exports=asciiToArray},function(module,exports){var rsAstralRange="\\ud800-\\udfff",rsComboMarksRange="\\u0300-\\u036f",reComboHalfMarksRange="\\ufe20-\\ufe2f",rsComboSymbolsRange="\\u20d0-\\u20ff",rsComboRange=rsComboMarksRange+reComboHalfMarksRange+rsComboSymbolsRange,rsVarRange="\\ufe0e\\ufe0f";var
rsAstral="["+rsAstralRange+"]",rsCombo="["+rsComboRange+"]",rsFitz="\\ud83c[\\udffb-\\udfff]",rsModifier="(?:"+rsCombo+"|"+rsFitz+")",rsNonAstral="[^"+rsAstralRange+"]",rsRegional="(?:\\ud83c[\\udde6-\\uddff]){2}",rsSurrPair="[\\ud800-\\udbff][\\udc00-\\udfff]",rsZWJ="\\u200d";var
reOptMod=rsModifier+"?",rsOptVar="["+rsVarRange+"]?",rsOptJoin="(?:"+rsZWJ+"(?:"+[rsNonAstral,rsRegional,rsSurrPair].join("|")+")"+rsOptVar+reOptMod+")*",rsSeq=rsOptVar+reOptMod+rsOptJoin,rsSymbol="(?:"+[rsNonAstral+rsCombo+"?",rsCombo,rsRegional,rsSurrPair,rsAstral].join("|")+")";var
reUnicode=RegExp(rsFitz+"(?="+rsFitz+")|"+rsSymbol+rsSeq,"g");function unicodeToArray(string){return
string.match(reUnicode)||[]}module.exports=unicodeToArray},function(module,exports,__webpack_require__){var
arrayReduce=__webpack_require__(187),deburr=__webpack_require__(400),words=__webpack_require__(403);var rsApos="['’]";var
reApos=RegExp(rsApos,"g");function createCompounder(callback){return function(string){return
arrayReduce(words(deburr(string).replace(reApos,"")),callback,"")}}module.exports=createCompounder},function(

module,exports,__webpack_require__){var
deburrLetter=__webpack_require__(401),toString=__webpack_require__(51);var reLatin=/[\xc0-\xd6\xd8-\xf6\xf8-
\xff\u0100-\u017f]/g;var rsComboMarksRange="\\u0300-\\u036f",reComboHalfMarksRange="\\ufe20-
\\ufe2f",rsComboSymbolsRange="\\u20d0-
\\u20ff",rsComboRange=rsComboMarksRange+reComboHalfMarksRange+rsComboSymbolsRange;var
rsCombo="["+rsComboRange+"]";var reComboMark=RegExp(rsCombo,"g");function
deburr(string){string=toString(string);return
string&&string.replace(reLatin,deburrLetter).replace(reComboMark,"")}module.exports=deburr},function(module,e
xports,__webpack_require__){var basePropertyOf=__webpack_require__(402);var
deburredLetters={"À":"A","Á":"A","Â":"A","Ã":"A","Ä":"A","Å":"A","à":"a","á":"a","â":"a","ã":"a","ä":"a","å":"a
","Ç":"C","ç":"c","Ð":"D","ð":"d","È":"E","É":"E","Ê":"E","Ë":"E","è":"e","é":"e","ê":"e","ë":"e","Ì":"I","Í":"I","Î":
"I","Ï":"I","ì":"i","í":"i","î":"i","ï":"i","Ñ":"N","ñ":"n","Ò":"O","Ó":"O","Ô":"O","Õ":"O","Ö":"O","Ø":"O","ò":"o",
"ó":"o","ô":"o","õ":"o","ö":"o","ø":"o","Ù":"U","Ú":"U","Û":"U","Ü":"U","ù":"u","ú":"u","û":"u","ü":"u","Ý":"Y",
"ý":"y","ÿ":"y","Æ":"Ae","æ":"ae","Þ":"Th","þ":"th","ß":"ss","":"A","":"A","":"A","":"a","":"a","":"a","":"C","":"C
","":"C","":"C","":"c","":"c","":"c","":"c","":"D","":"D","":"d","":"d","":"E","":"E","":"E","":"E","":"E","":"e","":"e"
,"":"e","":"e","":"e","":"G","":"G","":"G","":"G","":"g","":"g","":"g","":"g","":"H","":"H","":"h","":"h","":"I","":"I","
":"I","":"I","":"I","":"i","":"i","":"i","":"i","":"i","":"J","":"j","":"K","":"k","":"k","":"L","":"L","":"L","":"L","":"L","
":"l","":"l","":"l","":"l","":"l","":"N","":"N","":"N","":"N","":"n","":"n","":"n","":"n","":"O","":"O","":"O","":"o","":"
o","":"o","":"R","":"R","":"R","":"r","":"r","":"r","":"S","":"S","":"S","Š":"S","":"s","":"s","":"s","š":"s","":"T","":"T
","":"T","":"t","":"t","":"t","":"U","":"U","":"U","":"U","":"U","":"U","":"u","":"u","":"u","":"u","":"u","":"u","":"W
","":"w","":"Y","":"y","Ÿ":"Y","":"Z","":"Z","Ž":"Z","":"z","":"z","ž":"z","":"IJ","":"ij","Œ":"Oe","œ":"oe","":"n","
":"s"};var
deburrLetter=basePropertyOf(deburredLetters);module.exports=deburrLetter},function(module,exports){function
basePropertyOf(object){return function(key){return
object==null?undefined:object[key]}}module.exports=basePropertyOf},function(module,exports,__webpack_requir
e__){var
asciiWords=__webpack_require__(404),hasUnicodeWord=__webpack_require__(405),toString=__webpack_requir
e__(51),unicodeWords=__webpack_require__(406);function
words(string,pattern,guard){string=toString(string);pattern=guard?undefined:pattern;if(pattern===undefined){return
hasUnicodeWord(string)?unicodeWords(string):asciiWords(string)}return
string.match(pattern)||[]}module.exports=words},function(module,exports){var reAsciiWord=/[^\x00-\x2f\x3a-
\x40\x5b-\x60\x7b-\x7f]+/g;function asciiWords(string){return
string.match(reAsciiWord)||[]}module.exports=asciiWords},function(module,exports){var reHasUnicodeWord=/[a-
z][A-Z]|[A-Z]{2,}[a-z]|[0-9][a-zA-Z]|[a-zA-Z][0-9]|[^a-zA-Z0-9]/;function hasUnicodeWord(string){return
reHasUnicodeWord.test(string)}module.exports=hasUnicodeWord},function(module,exports){var
rsAstralRange="\\ud800-\\udfff",rsComboMarksRange="\\u0300-\\u036f",reComboHalfMarksRange="\\ufe20-
\\ufe2f",rsComboSymbolsRange="\\u20d0-
\\u20ff",rsComboRange=rsComboMarksRange+reComboHalfMarksRange+rsComboSymbolsRange,rsDingbatRang
e="\\u2700-\\u27bf",rsLowerRange="a-z\\xdf-\\xf6\\xf8-
\\xff",rsMathOpRange="\\xac\\xb1\\xd7\\xf7",rsNonCharRange="\\x00-\\x2f\\x3a-\\x40\\x5b-\\x60\\x7b-
\\xbf",rsPunctuationRange="\\u2000-\\u206f",rsSpaceRange="
\\t\\x0b\\f\\xa0\\ufeff\\n\\r\\u2028\\u2029\\u1680\\u180e\\u2000\\u2001\\u2002\\u2003\\u2004\\u2005\\u2006\\u200
7\\u2008\\u2009\\u200a\\u202f\\u205f\\u3000",rsUpperRange="A-Z\\xc0-\\xd6\\xd8-
\\xde",rsVarRange="\\ufe0e\\ufe0f",rsBreakRange=rsMathOpRange+rsNonCharRange+rsPunctuationRange+rsSpac
eRange;var
rsApos="['']",rsBreak="["+rsBreakRange+"]",rsCombo="["+rsComboRange+"]",rsDigits="\\d+",rsDingbat="["+rs
DingbatRange+"]",rsLower="["+rsLowerRange+"]",rsMisc="[^"+rsAstralRange+rsBreakRange+rsDigits+rsDingba
tRange+rsLowerRange+rsUpperRange+"]",rsFitz="\\ud83c[\\udffb-

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\\udfff]",rsModifier="(?:"+rsCombo+"|"+rsFitz+")",rsNonAstral="[^"+rsAstralRange+"]",rsRegional="(?:\\ud83c[\\
udde6-\\uddff]){2}",rsSurrPair="[\\ud800-\\udbff][\\udc00-
\\udfff]",rsUpper="["+rsUpperRange+"]",rsZWJ="\\u200d";var
rsMiscLower="(?:"+rsLower+"|"+rsMisc+")",rsMiscUpper="(?:"+rsUpper+"|"+rsMisc+")",rsOptContrLower="(?:"
+rsApos+"(?:d|ll|m|re|s|t|ve))?",rsOptContrUpper="(?:"+rsApos+"(?:D|LL|M|RE|S|T|VE))?",reOptMod=rsModifier+
"?",rsOptVar="["+rsVarRange+"]?",rsOptJoin="(?:"+rsZWJ+"(?:"+[rsNonAstral,rsRegional,rsSurrPair].join("|")+")
"+rsOptVar+reOptMod+")*",rsOrdLower="\\d*(?:1st|2nd|3rd|(?![123])\\dth)(?=\\b|[A-
Z_])",rsOrdUpper="\\d*(?:1ST|2ND|3RD|(?![123])\\dTH)(?=\\b|[a-
z_])",rsSeq=rsOptVar+reOptMod+rsOptJoin,rsEmoji="(?:"+[rsDingbat,rsRegional,rsSurrPair].join("|")+")"+rsSeq;v
ar
reUnicodeWord=RegExp([rsUpper+"?"+rsLower+"+"+rsOptContrLower+"(?="+[rsBreak,rsUpper,"$"].join("|")+")"
,rsMiscUpper+"+"+rsOptContrUpper+"(?="+[rsBreak,rsUpper+rsMiscLower,"$"].join("|")+")",rsUpper+"?"+rsMisc
Lower+"+"+rsOptContrLower,rsUpper+"+"+rsOptContrUpper,rsOrdUpper,rsOrdLower,rsDigits,rsEmoji].join("|"),"
g");function unicodeWords(string){return
string.match(reUnicodeWord)||[]}module.exports=unicodeWords},function(module,exports,__webpack_require__){
var
Hash=__webpack_require__(408),ListCache=__webpack_require__(93),Map=__webpack_require__(125);function
mapCacheClear(){this.size=0;this.__data__={hash:new Hash,map:new(Map||ListCache),string:new
Hash}}module.exports=mapCacheClear},function(module,exports,__webpack_require__){var
hashClear=__webpack_require__(409),hashDelete=__webpack_require__(414),hashGet=__webpack_require__(415
),hashHas=__webpack_require__(416),hashSet=__webpack_require__(417);function Hash(entries){var index=-
1,length=entries==null?0:entries.length;this.clear();while(++index<length){var
entry=entries[index];this.set(entry[0],entry[1])}}Hash.prototype.clear=hashClear;Hash.prototype["delete"]=hashDel
ete;Hash.prototype.get=hashGet;Hash.prototype.has=hashHas;Hash.prototype.set=hashSet;module.exports=Hash},f
unction(module,exports,__webpack_require__){var nativeCreate=__webpack_require__(92);function
hashClear(){this.__data__=nativeCreate?nativeCreate(null):{};this.size=0}module.exports=hashClear},function(mo
dule,exports,__webpack_require__){var
isFunction=__webpack_require__(189),isMasked=__webpack_require__(411),isObject=__webpack_require__(28),t
oSource=__webpack_require__(190);var reRegExpChar=/[\\^$.*+?()[\]{}|]/g;var reIsHostCtor=/^\[object
 .+?Constructor\]$/;var funcProto=Function.prototype,objectProto=Object.prototype;var
funcToString=funcProto.toString;var hasOwnProperty=objectProto.hasOwnProperty;var
reIsNative=RegExp("^"+funcToString.call(hasOwnProperty).replace(reRegExpChar,"\\$&").replace(/hasOwnPrope
rty|(function).*?(?=\\()| for .+?(?=\\])/g,"$1.*?")+"$");function
baseIsNative(value){if(!isObject(value)||isMasked(value)){return false}var
pattern=isFunction(value)?reIsNative:reIsHostCtor;return
pattern.test(toSource(value))}module.exports=baseIsNative},function(module,exports,__webpack_require__){var
coreJsData=__webpack_require__(412);var maskSrcKey=function(){var
uid=/[^.]+$/.exec(coreJsData&&coreJsData.keys&&coreJsData.keys.IE_PROTO||"");return
uid?"Symbol(src)_1."+uid:""}();function isMasked(func){return!!maskSrcKey&&maskSrcKey in
func}module.exports=isMasked},function(module,exports,__webpack_require__){var
root=__webpack_require__(26);var coreJsData=root["__core-
js_shared__"];module.exports=coreJsData},function(module,exports){function
 getValue(object,key){return
object==null?undefined:object[key]}module.exports=getValue},function(module,exports){function
hashDelete(key){var result=this.has(key)&&delete this.__data__[key];this.size-=result?1:0;return
result}module.exports=hashDelete},function(module,exports,__webpack_require__){var
nativeCreate=__webpack_require__(92);var HASH_UNDEFINED="__lodash_hash_undefined__";var
objectProto=Object.prototype;var hasOwnProperty=objectProto.hasOwnProperty;function hashGet(key){var
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data=this.__data__;if(nativeCreate){var result=data[key];return
result===HASH_UNDEFINED?undefined:result}return
hasOwnProperty.call(data,key)?data[key]:undefined}module.exports=hashGet},function(module,exports,__webpac
k_require__){var nativeCreate=__webpack_require__(92);var objectProto=Object.prototype;var
hasOwnProperty=objectProto.hasOwnProperty;function hashHas(key){var data=this.__data__;return
nativeCreate?data[key]!==undefined:hasOwnProperty.call(data,key)}module.exports=hashHas},function(module,ex
ports,__webpack_require__){var
nativeCreate=__webpack_require__(92);var HASH_UNDEFINED="__lodash_hash_undefined__";function
hashSet(key,value){var
data=this.__data__;this.size+=this.has(key)?0:1;data[key]=nativeCreate&&value===undefined?HASH_UNDEFIN
ED:value;return this}module.exports=hashSet},function(module,exports){function
listCacheClear(){this.__data__=[];this.size=0}module.exports=listCacheClear},function(module,exports,__webpack
_require__){var assocIndexOf=__webpack_require__(94);var arrayProto=Array.prototype;var
splice=arrayProto.splice;function listCacheDelete(key){var
data=this.__data__,index=assocIndexOf(data,key);if(index<0){return false}var lastIndex=data.length-
1;if(index==lastIndex){data.pop()}else{splice.call(data,index,1)}--this.size;return
true}module.exports=listCacheDelete},function(module,exports,__webpack_require__){var
assocIndexOf=__webpack_require__(94);function listCacheGet(key){var
data=this.__data__,index=assocIndexOf(data,key);return
index<0?undefined:data[index][1]}module.exports=listCacheGet},function(module,exports,__webpack_require__){
var assocIndexOf=__webpack_require__(94);function listCacheHas(key){return assocIndexOf(this.__data__,key)>-
1}module.exports=listCacheHas},function(module,exports,__webpack_require__){var
assocIndexOf=__webpack_require__(94);function listCacheSet(key,value){var
data=this.__data__,index=assocIndexOf(data,key);if(index<0){++this.size;data.push([key,value])}else{data[index][
1]=value}return this}module.exports=listCacheSet},function(module,exports,__webpack_require__){var
getMapData=__webpack_require__(95);function mapCacheDelete(key){var
result=getMapData(this,key)["delete"](key);this.size-=result?1:0;return
result}module.exports=mapCacheDelete},function(module,exports){function isKeyable(value){var type=typeof
value;return
type=="string"||type=="number"||type=="symbol"||type=="boolean"?value!=="__proto__":value===null}module.ex
ports=isKeyable},function(module,exports,__webpack_require__){var
getMapData=__webpack_require__(95);function mapCacheGet(key){return
getMapData(this,key).get(key)}module.exports=mapCacheGet},function(module,exports,__webpack_require__){va
r getMapData=__webpack_require__(95);function mapCacheHas(key){return
getMapData(this,key).has(key)}module.exports=mapCacheHas},function(module,exports,__webpack_require__){v
ar getMapData=__webpack_require__(95);function mapCacheSet(key,value){var
data=getMapData(this,key),size=data.size;data.set(key,value);this.size+=data.size==size?0:1;return
this}module.exports=mapCacheSet},function(module,exports,__webpack_require__){var
createFind=__webpack_require__(429),findIndex=__webpack_require__(467);var
find=createFind(findIndex);module.exports=find},function(module,exports,__webpack_require__){var
baseIteratee=__webpack_require__(96),isArrayLike=__webpack_require__(68),keys=__webpack_require__(53);fu
nction createFind(findIndexFunc){return function(collection,predicate,fromIndex){var
iterable=Object(collection);if(!isArrayLike(collection)){var
iteratee=baseIteratee(predicate,3);collection=keys(collection);predicate=function(key){return
iteratee(iterable[key],key,iterable)}}var index=findIndexFunc(collection,predicate,fromIndex);return index>-
1?iterable[iteratee?collection[index]:index]:undefined}}module.exports=createFind},function(module,exports,__we
bpack_require__){var
baseIsMatch=__webpack_require__(431),getMatchData=__webpack_require__(457),matchesStrictComparable=__

webpack_require__(202);function baseMatches(source){var
matchData=getMatchData(source);if(matchData.length==1&&matchData[0][2]){return
matchesStrictComparable(matchData[0][0],matchData[0][1])}return function(object){return
object===source||baseIsMatch(object,source,matchData)}}module.exports=baseMatches},function(module,exports,
__webpack_require__){var Stack=__webpack_require__(126),baseIsEqual=__webpack_require__(191);var
COMPARE_PARTIAL_FLAG=1,COMPARE_UNORDERED_FLAG=2;function
baseIsMatch(object,source,matchData,customizer){var
index=matchData.length,length=index,noCustomizer=!customizer;if(object==null){return!length}object=Object(obj
ect);while(index--){var data=matchData[index];if(noCustomizer&&data[2]?data[1]!==object[data[0]]:!(data[0]in
object)){return false}}while(++index<length){data=matchData[index];var
key=data[0],objValue=object[key],srcValue=data[1];if(noCustomizer&&data[2]){if(objValue===undefined&&!(ke
y in object)){return false}}else{var stack=new Stack;if(customizer){var
result=customizer(objValue,srcValue,key,object,source,stack)}if(!(result===undefined?baseIsEqual(srcValue,objVa
lue,COMPARE_PARTIAL_FLAG|COMPARE_UNORDERED_FLAG,customizer,stack):result)){return
false}}}return true}module.exports=baseIsMatch},function(module,exports,__webpack_require__){var
ListCache=__webpack_require__(93);function stackClear(){this.__data__=new
ListCache;this.size=0}module.exports=stackClear},function(module,exports){function stackDelete(key){var
data=this.__data__,result=data["delete"](key);this.size=data.size;return
result}module.exports=stackDelete},function(module,exports){function stackGet(key){return
this.__data__.get(key)}module.exports=stackGet},function(module,exports){function stackHas(key){return
this.__data__.has(key)}module.exports=stackHas},function(module,exports,__webpack_require__){var
ListCache=__webpack_require__(93),Map=__webpack_require__(125),MapCache=__webpack_require__(124);var
LARGE_ARRAY_SIZE=200;function stackSet(key,value){var data=this.__data__;if(data instanceof
ListCache){var pairs=data.__data__;if(!Map||pairs.length<LARGE_ARRAY_SIZE-
1){pairs.push([key,value]);this.size=++data.size;return this}data=this.__data__=new
MapCache(pairs)}data.set(key,value);this.size=data.size;return
this}module.exports=stackSet},function(module,exports,__webpack_require__){var
Stack=__webpack_require__(126),equalArrays=__webpack_require__(192),equalByTag=__webpack_require__(44
2),equalObjects=__webpack_require__(445),getTag=__webpack_require__(98),isArray=__webpack_require__(20),
isBuffer=__webpack_require__(130),isTypedArray=__webpack_require__(199);var
COMPARE_PARTIAL_FLAG=1;var argsTag="[object Arguments]",arrayTag="[object
Array]",objectTag="[object Object]";var objectProto=Object.prototype;var
hasOwnProperty=objectProto.hasOwnProperty;function
baseIsEqualDeep(object,other,bitmask,customizer,equalFunc,stack){var
objIsArr=isArray(object),othIsArr=isArray(other),objTag=objIsArr?arrayTag:getTag(object),othTag=othIsArr?array
Tag:getTag(other);objTag=objTag==argsTag?objectTag:objTag;othTag=othTag==argsTag?objectTag:othTag;var
objIsObj=objTag==objectTag,othIsObj=othTag==objectTag,isSameTag=objTag==othTag;if(isSameTag&&isBuffe
r(object)){if(!isBuffer(other)){return
false}objIsArr=true;objIsObj=false}if(isSameTag&&!objIsObj){stack||(stack=new Stack);return
objIsArr||isTypedArray(object)?equalArrays(object,other,bitmask,customizer,equalFunc,stack):equalByTag(object,o
ther,objTag,bitmask,customizer,equalFunc,stack)}if(!(bitmask&COMPARE_PARTIAL_FLAG)){var
objIsWrapped=objIsObj&&hasOwnProperty.call(object,"__wrapped__"),othIsWrapped=othIsObj&&hasOwnProper
ty.call(other,"__wrapped__");if(objIsWrapped||othIsWrapped){var
objUnwrapped=objIsWrapped?object.value():object,othUnwrapped=othIsWrapped?other.value():other;stack||(stack
=new Stack);return equalFunc(objUnwrapped,othUnwrapped,bitmask,customizer,stack)}}if(!isSameTag){return
false}stack||(stack=new Stack);return
equalObjects(object,other,bitmask,customizer,equalFunc,stack)}module.exports=baseIsEqualDeep},function(modul
e,exports,__webpack_require__){var

MapCache=__webpack_require__(124),setCacheAdd=__webpack_require__(439),setCacheHas=__webpack_require__(440);function SetCache(values){var index=-1,length=values==null?0:values.length;this.__data__=new MapCache;while(++index<length){this.add(values[index])}}SetCache.prototype.add=SetCache.prototype.push=setCacheAdd;SetCache.prototype.has=setCacheHas;module.exports=SetCache},function(module,exports){var HASH_UNDEFINED="__lodash_hash_undefined__";function setCacheAdd(value){this.__data__.set(value,HASH_UNDEFINED);return this}module.exports=setCacheAdd},function(module,exports){function setCacheHas(value){return this.__data__.has(value)}module.exports=setCacheHas},function(module,exports){function cacheHas(cache,key){return cache.has(key)}module.exports=cacheHas},function(module,exports,__webpack_require__){var Symbol=__webpack_require__(52),Uint8Array=__webpack_require__(194),eq=__webpack_require__(67),equalArrays=__webpack_require__(192),mapToArray=__webpack_require__(443),setToArray=__webpack_require__(444);var COMPARE_PARTIAL_FLAG=1,COMPARE_UNORDERED_FLAG=2;var boolTag="[object Boolean]",dateTag="[object Date]",errorTag="[object Error]",mapTag="[object Map]",numberTag="[object Number]",regexpTag="[object RegExp]",setTag="[object Set]",stringTag="[object String]",symbolTag="[object Symbol]";var arrayBufferTag="[object ArrayBuffer]",dataViewTag="[object DataView]";var symbolProto=Symbol?Symbol.prototype:undefined,symbolValueOf=symbolProto?symbolProto.valueOf:undefined;function equalByTag(object,other,tag,bitmask,customizer,equalFunc,stack){switch(tag){case dataViewTag:if(object.byteLength!=other.byteLength||object.byteOffset!=other.byteOffset){return false}object=object.buffer;other=other.buffer;case arrayBufferTag:if(object.byteLength!=other.byteLength||!equalFunc(new Uint8Array(object),new Uint8Array(other))){return false}return true;case boolTag:case dateTag:case numberTag:return eq(+object,+other);case errorTag:return object.name==other.name&&object.message==other.message;case regexpTag:case stringTag:return object==other+"";case mapTag:var convert=mapToArray;case setTag:var isPartial=bitmask&COMPARE_PARTIAL_FLAG;convert||(convert=setToArray);if(object.size!=other.size&&!isPartial){return false}var stacked=stack.get(object);if(stacked){return stacked==other}bitmask|=COMPARE_UNORDERED_FLAG;stack.set(object,other);var result=equalArrays(convert(object),convert(other),bitmask,customizer,equalFunc,stack);stack["delete"](object);return result;case symbolTag:if(symbolValueOf){return symbolValueOf.call(object)==symbolValueOf.call(other)}}return false}module.exports=equalByTag},function(module,exports){function mapToArray(map){var index=-1,result=Array(map.size);map.forEach(function(value,key){result[++index]=[key,value]});return result}module.exports=mapToArray},function(module,exports){function setToArray(set){var index=-1,result=Array(set.size);set.forEach(function(value){result[++index]=value});return result}module.exports=setToArray},function(module,exports,__webpack_require__){var getAllKeys=__webpack_require__(195);var COMPARE_PARTIAL_FLAG=1;var objectProto=Object.prototype;var hasOwnProperty=objectProto.hasOwnProperty;function equalObjects(object,other,bitmask,customizer,equalFunc,stack){var isPartial=bitmask&COMPARE_PARTIAL_FLAG,objProps=getAllKeys(object),objLength=objProps.length,othProps=getAllKeys(other),othLength=othProps.length;if(objLength!=othLength&&!isPartial){return false}var index=objLength;while(index--){var key=objProps[index];if(!(isPartial?key in other:hasOwnProperty.call(other,key))){return false}}var stacked=stack.get(object);if(stacked&&stack.get(other)){return stacked==other}var result=true;stack.set(object,other);stack.set(other,object);var skipCtor=isPartial;while(++index<objLength){key=objProps[index];var objValue=object[key],othValue=other[key];if(customizer){var compared=isPartial?customizer(othValue,objValue,key,other,object,stack):customizer(objValue,othValue,key,objec

t,other,stack)}if(!(compared===undefined?objValue===othValue||equalFunc(objValue,othValue,bitmask,customizer,stack):compared)){result=false;break}skipCtor||(skipCtor=key=="constructor")}if(result&&!skipCtor){var objCtor=object.constructor,othCtor=other.constructor;if(objCtor!=othCtor&&("constructor"in object&&"constructor"in other)&&!(typeof objCtor=="function"&&objCtor instanceof objCtor&&typeof othCtor=="function"&&othCtor instanceof othCtor)){result=false}}stack["delete"](object);stack["delete"](other);return result}module.exports=equalObjects},function(module,exports){function arrayFilter(array,predicate){var index=-1,length=array==null?0:array.length,resIndex=0,result=[];while(++index<length){var value=array[index];if(predicate(value,index,array)){result[resIndex++]=value}}return result}module.exports=arrayFilter},function(module,exports){function baseTimes(n,iteratee){var index=-1,result=Array(n);while(++index<n){result[index]=iteratee(index)}return result}module.exports=baseTimes},function(module,exports,__webpack_require__){var baseGetTag=__webpack_require__(43),isObjectLike=__webpack_require__(32);var argsTag="[object Arguments]";function baseIsArguments(value){return isObjectLike(value)&&baseGetTag(value)==argsTag}module.exports=baseIsArguments},function(module,exports){function stubFalse(){return false}module.exports=stubFalse},function(module,exports,__webpack_require__){var baseGetTag=__webpack_require__(43),isLength=__webpack_require__(132),isObjectLike=__webpack_require__(32);var argsTag="[object Arguments]",arrayTag="[object Array]",boolTag="[object Boolean]",dateTag="[object Date]",errorTag="[object Error]",funcTag="[object Function]",mapTag="[object Map]",numberTag="[object Number]",objectTag="[object Object]",regexpTag="[object RegExp]",setTag="[object Set]",stringTag="[object String]",weakMapTag="[object WeakMap]";var arrayBufferTag="[object ArrayBuffer]",dataViewTag="[object DataView]",float32Tag="[object Float32Array]",float64Tag="[object Float64Array]",int8Tag="[object Int8Array]",int16Tag="[object Int16Array]",int32Tag="[object Int32Array]",uint8Tag="[object Uint8Array]",uint8ClampedTag="[object Uint8ClampedArray]",uint16Tag="[object Uint16Array]",uint32Tag="[object Uint32Array]";var typedArrayTags={};typedArrayTags[float32Tag]=typedArrayTags[float64Tag]=typedArrayTags[int8Tag]=typedArrayTags[int16Tag]=typedArrayTags[int32Tag]=typedArrayTags[uint8Tag]=typedArrayTags[uint8ClampedTag]=typedArrayTags[uint16Tag]=typedArrayTags[uint32Tag]=true;typedArrayTags[argsTag]=typedArrayTags[arrayTag]=typedArrayTags[arrayBufferTag]=typedArrayTags[boolTag]=typedArrayTags[dataViewTag]=typedArrayTags[dateTag]=typedArrayTags[errorTag]=typedArrayTags[funcTag]=typedArrayTags[mapTag]=typedArrayTags[numberTag]=typedArrayTags[objectTag]=typedArrayTags[regexpTag]=typedArrayTags[setTag]=typedArrayTags[stringTag]=typedArrayTags[weakMapTag]=false;function baseIsTypedArray(value){return isObjectLike(value)&&isLength(value.length)&&!!typedArrayTags[baseGetTag(value)]}module.exports=baseIsTypedArray},function(module,exports,__webpack_require__){var isPrototype=__webpack_require__(135),nativeKeys=__webpack_require__(452);var objectProto=Object.prototype;var hasOwnProperty=objectProto.hasOwnProperty;function baseKeys(object){if(!isPrototype(object)){return nativeKeys(object)}var result=[];for(var key in Object(object)){if(hasOwnProperty.call(object,key)&&key!="constructor"){result.push(key)}}return result}module.exports=baseKeys},function(module,exports,__webpack_require__){var overArg=__webpack_require__(200);var nativeKeys=overArg(Object.keys,Object);module.exports=nativeKeys},function(module,exports,__webpack_require__){var getNative=__webpack_require__(44),root=__webpack_require__(26);var DataView=getNative(root,"DataView");module.exports=DataView},function(module,exports,__webpack_require__){var getNative=__webpack_require__(44),root=__webpack_require__(26);var Promise=getNative(root,"Promise");module.exports=Promise},function(module,exports,__webpack_require__){var getNative=__webpack_require__(44),root=__webpack_require__(26);var

Set=getNative(root,"Set");module.exports=Set},function(module,exports,__webpack_require__){var
getNative=__webpack_require__(44),root=__webpack_require__(26);var
WeakMap=getNative(root,"WeakMap");module.exports=WeakMap},function(module,exports,__webpack_require_
_){var isStrictComparable=__webpack_require__(201),keys=__webpack_require__(53);function
getMatchData(object){var
result=keys(object),length=result.length;while(length--){var
key=result[length],value=object[key];result[length]=[key,value,isStrictComparable(value)]}return
result}module.exports=getMatchData},function(module,exports,__webpack_require__){var
baseIsEqual=__webpack_require__(191),get=__webpack_require__(136),hasIn=__webpack_require__(461),isKey=
__webpack_require__(138),isStrictComparable=__webpack_require__(201),matchesStrictComparable=__webpack
_require__(202),toKey=__webpack_require__(54);var
COMPARE_PARTIAL_FLAG=1,COMPARE_UNORDERED_FLAG=2;function
baseMatchesProperty(path,srcValue){if(isKey(path)&&isStrictComparable(srcValue)){return
matchesStrictComparable(toKey(path),srcValue)}return function(object){var objValue=get(object,path);return
objValue===undefined&&objValue===srcValue?hasIn(object,path):baseIsEqual(srcValue,objValue,COMPARE_P
ARTIAL_FLAG|COMPARE_UNORDERED_FLAG)}}module.exports=baseMatchesProperty},function(module,e
xports,__webpack_require__){var memoizeCapped=__webpack_require__(460);var
rePropName=/[^.[\]]+|\[(?:(-?\d+(?:\.\d+)?)|(["'])((?:(?!\2)[^\\]|\\.)*?)\2)\]|(?=(?:\.|\[\])(?:\.|\[\]|$))/g;var
reEscapeChar=/\\(\\)?/g;var stringToPath=memoizeCapped(function(string){var
result=[];if(string.charCodeAt(0)===46){result.push("")}string.replace(rePropName,function(match,number,quote,s
ubString){result.push(quote?subString.replace(reEscapeChar,"$1"):number||match)});return
result});module.exports=stringToPath},function(module,exports,__webpack_require__){var
memoize=__webpack_require__(188);var MAX_MEMOIZE_SIZE=500;function memoizeCapped(func){var
result=memoize(func,function(key){if(cache.size===MAX_MEMOIZE_SIZE){cache.clear()}return key});var
cache=result.cache;return
result}module.exports=memoizeCapped},function(module,exports,__webpack_require__){var
baseHasIn=__webpack_require__(462),hasPath=__webpack_require__(463);function hasIn(object,path){return
object!=null&&hasPath(object,path,baseHasIn)}module.exports=hasIn},function(module,exports){function
baseHasIn(object,key){return object!=null&&key in
Object(object)}module.exports=baseHasIn},function(module,exports,__webpack_require__){var
castPath=__webpack_require__(69),isArguments=__webpack_require__(129),isArray=__webpack_require__(20),is
Index=__webpack_require__(97),isLength=__webpack_require__(132),toKey=__webpack_require__(54);function
hasPath(object,path,hasFunc){path=castPath(path,object);var index=-
1,length=path.length,result=false;while(++index<length){var
key=toKey(path[index]);if(!(result=object!=null&&hasFunc(object,key))){break}object=object[key]}if(result||++in
dex!=length){return
result}length=object==null?0:object.length;return!!length&&isLength(length)&&isIndex(key,length)&&(isArray(o
bject)||isArguments(object))}module.exports=hasPath},function(module,exports,__webpack_require__){var
baseProperty=__webpack_require__(465),basePropertyDeep=__webpack_require__(466),isKey=__webpack_requir
e__(138),toKey=__webpack_require__(54);function property(path){return
isKey(path)?baseProperty(toKey(path)):basePropertyDeep(path)}module.exports=property},function(module,export
s){function baseProperty(key){return function(object){return
object==null?undefined:object[key]}}module.exports=baseProperty},function(module,exports,__webpack_require_
_){var baseGet=__webpack_require__(137);function basePropertyDeep(path){return function(object){return
baseGet(object,path)}}module.exports=basePropertyDeep},function(module,exports,__webpack_require__){var
baseFindIndex=__webpack_require__(468),baseIteratee=__webpack_require__(96),toInteger=__webpack_require_
_(469);var nativeMax=Math.max;function findIndex(array,predicate,fromIndex){var
length=array==null?0:array.length;if(!length){return-1}var

index=fromIndex==null?0:toInteger(fromIndex);if(index<0){index=nativeMax(length+index,0)}return
baseFindIndex(array,baseIteratee(predicate,3),index)}module.exports=findIndex},function(module,exports){functio
n baseFindIndex(array,predicate,fromIndex,fromRight){var length=array.length,index=fromIndex+(fromRight?1:-
1);while(fromRight?index--:++index<length){if(predicate(array[index],index,array)){return
index}}return-1}module.exports=baseFindIndex},function(module,exports,__webpack_require__){var
toFinite=__webpack_require__(470);function toInteger(value){var
result=toFinite(value),remainder=result%1;return result===result?remainder?result-
remainder:result:0}module.exports=toInteger},function(module,exports,__webpack_require__){var
toNumber=__webpack_require__(204);var INFINITY=1/0,MAX_INTEGER=1.7976931348623157e308;function
toFinite(value){if(!value){return value===0?value:0}value=toNumber(value);if(value===INFINITY||value===-
INFINITY){var sign=value<0?-1:1;return sign*MAX_INTEGER}return
value===value?value:0}module.exports=toFinite},function(module,exports,__webpack_require__){var
arraySome=__webpack_require__(193),baseIteratee=__webpack_require__(96),baseSome=__webpack_require__(4
72),isArray=__webpack_require__(20),isIterateeCall=__webpack_require__(477);function
some(collection,predicate,guard){var
func=isArray(collection)?arraySome:baseSome;if(guard&&isIterateeCall(collection,predicate,guard)){predicate=un
defined}return
func(collection,baseIteratee(predicate,3))}module.exports=some},function(module,exports,__webpack_require__){
var baseEach=__webpack_require__(205);function baseSome(collection,predicate){var
result;baseEach(collection,function(value,index,collection){result=predicate(value,index,collection);return!result});r
eturn!!result}module.exports=baseSome},function(module,exports,__webpack_require__){var
baseFor=__webpack_require__(474),keys=__webpack_require__(53);function baseForOwn(object,iteratee){return
object&&baseFor(object,iteratee,keys)}module.exports=baseForOwn},function(module,exports,__webpack_require
__){var createBaseFor=__webpack_require__(475);var
baseFor=createBaseFor();module.exports=baseFor},function(module,exports){function
createBaseFor(fromRight){return function(object,iteratee,keysFunc){var index=-
1,iterable=Object(object),props=keysFunc(object),length=props.length;while(length--){var
key=props[fromRight?length:++index];if(iteratee(iterable[key],key,iterable)===false){break}}return
object}}module.exports=createBaseFor},function(module,exports,__webpack_require__){var
isArrayLike=__webpack_require__(68);function createBaseEach(eachFunc,fromRight){return
function(collection,iteratee){if(collection==null){return collection}if(!isArrayLike(collection)){return
eachFunc(collection,iteratee)}var length=collection.length,index=fromRight?length:-
1,iterable=Object(collection);while(fromRight?index--
:++index<length){if(iteratee(iterable[index],index,iterable)===false){break}}return
collection}}module.exports=createBaseEach},function(module,exports,__webpack_require__){var
eq=__webpack_require__(67),isArrayLike=__webpack_require__(68),isIndex=__webpack_require__(97),isObject=
__webpack_require__(28);function isIterateeCall(value,index,object){if(!isObject(object)){return false}var
type=typeof
index;if(type=="number"?isArrayLike(object)&&isIndex(index,object.length):type=="string"&&index in
object){return eq(object[index],value)}return
false}module.exports=isIterateeCall},function(module,exports,__webpack_require__){(function(process){var
escapeForXML=__webpack_require__(480);var Stream=__webpack_require__(481).Stream;var
DEFAULT_INDENT=" ";function xml(input,options){if(typeof
options!=="object"){options={indent:options}}var stream=options.stream?new
Stream:null,output="",interrupted=false,indent=!options.indent?"":options.indent===true?DEFAULT_INDENT:opt
ions.indent,instant=true;function delay(func){if(!instant){func()}else{process.nextTick(func)}}function
append(interrupt,out){if(out!==undefined){output+=out}if(interrupt&&!interrupted){stream=stream||new
Stream;interrupted=true}if(interrupt&&interrupted){var

data=output;delay(function(){stream.emit("data",data)});output=""}}function
add(value,last){format(append,resolve(value,indent,indent?1:0),last)}function end(){if(stream){var
data=output;delay(function(){stream.emit("data",data);stream.emit("end");stream.readable=false;stream.emit("close
")})}}function addXmlDeclaration(declaration){var encoding=declaration.encoding||"UTF-
8",attr={version:"1.0",encoding:encoding};if(declaration.standalone){attr.standalone=declaration.standalone}add({"
?xml":{_attr:attr}});output=output.replace("/>","?>")}delay(function(){instant=false});if(options.declaration){addX
mlDeclaration(options.declaration)}if(input&&input.forEach){input.forEach(function(value,i){var
last;if(i+1===input.length)last=end;add(value,last)})}else{add(input,end)}if(stream){stream.readable=true;return
stream}return output}function element(){var
input=Array.prototype.slice.call(arguments),self={_elem:resolve(input)};self.push=function(input){if(!this.append)
{throw new Error("not assigned to a parent!")}var that=this;var
indent=this._elem.indent;format(this.append,resolve(input,indent,this._elem.icount+(indent?1:0)),function(){that.ap
pend(true)})};self.close=function(input){if(input!==undefined){this.push(input)}if(this.end){this.end()}};return
self}function create_indent(character,count){return new Array(count||0).join(character||"")}function
resolve(data,indent,indent_count){indent_count=indent_count||0;var
indent_spaces=create_indent(indent,indent_count);var name;var values=data;var interrupt=false;if(typeof
data=="object"){var
keys=Object.keys(data);name=keys[0];values=data[name];if(values&&values._elem){values._elem.name=name;val
ues._elem.icount=indent_count;values._elem.indent=indent;values._elem.indents=indent_spaces;values._elem.interr
upt=values;return values._elem}}var attributes=[],content=[];var isStringContent;function get_attributes(obj){var
keys=Object.keys(obj);keys.forEach(function(key){attributes.push(attribute(key,obj[key]))})}switch(typeof
values){case"object":if(values===null)break;if(values._attr){get_attributes(values._attr)}if(values._cdata){content.p
push(("<![CDATA["+values._cdata).replace(/\]\]>/g,"]]]]><![CDATA[>")+"]]>")}if(values.forEach){isStringContent
=false;content.push("");values.forEach(function(value){if(typeof
value=="object"){var
_name=Object.keys(value)[0];if(_name=="_attr"){get_attributes(value._attr)}else{content.push(resolve(value,inden
t,indent_count+1))}}else{content.pop();isStringContent=true;content.push(escapeForXML(value))}});if(!isStringCo
ntent){content.push("")}}break;default:content.push(escapeForXML(values))}return{name:name,interrupt:interrupt,
attributes:attributes,content:content,icount:indent_count,indents:indent_spaces,indent:indent}}function
format(append,elem,end){if(typeof elem!="object"){return append(false,elem)}var
len=elem.interrupt?1:elem.content.length;function proceed(){while(elem.content.length){var
value=elem.content.shift();if(value===undefined)continue;if(interrupt(value))return;format(append,value)}append(f
alse,(len>1?elem.indents:"")+(elem.name?"</"+elem.name+">":"")+(elem.indent&&!end?"\n":""));if(end){end()}}f
unction
interrupt(value){if(value.interrupt){value.interrupt.append=append;value.interrupt.end=proceed;value.interrupt=fals
e;append(true);return
true}return false}append(false,elem.indents+(elem.name?"<"+elem.name:"")+(elem.attributes.length?"
"+elem.attributes.join("
"):"")+(len?elem.name?">":":elem.name?"/>":"")+(elem.indent&&len>1?"\n":""));if(!len){return
append(false,elem.indent?"\n":"")}if(!interrupt(elem)){proceed()}}function attribute(key,value){return
key+"="+"'"+escapeForXML(value)+"'"}module.exports=xml;module.exports.element=module.exports.Element=ele
ment}).call(exports,__webpack_require__(479))},function(module,exports){var process=module.exports={};var
cachedSetTimeout;var cachedClearTimeout;function defaultSetTimout(){throw new Error("setTimeout has not been
defined")}function defaultClearTimeout(){throw new Error("clearTimeout has not been
defined")}(function(){try{if(typeof
setTimeout=="function"){cachedSetTimeout=setTimeout}else{cachedSetTimeout=defaultSetTimout}}catch(e){ca
chedSetTimeout=defaultSetTimout}try{if(typeof

clearTimeout=="function"){cachedClearTimeout=clearTimeout}else{cachedClearTimeout=defaultClearTimeout}
}catch(e){cachedClearTimeout=defaultClearTimeout}})();function
runTimeout(fun){if(cachedSetTimeout===setTimeout){return
setTimeout(fun,0)}if((cachedSetTimeout===defaultSetTimout||!cachedSetTimeout)&&setTimeout){cachedSetTime
out=setTimeout;return setTimeout(fun,0)}try{return cachedSetTimeout(fun,0)}catch(e){try{return
cachedSetTimeout.call(null,fun,0)}catch(e){return cachedSetTimeout.call(this,fun,0)}}}function
runClearTimeout(marker){if(cachedClearTimeout===clearTimeout){return
clearTimeout(marker)}if((cachedClearTimeout===defaultClearTimeout||!cachedClearTimeout)&&clearTimeout){c
achedClearTimeout=clearTimeout;return clearTimeout(marker)}try{return
cachedClearTimeout(marker)}catch(e){try{return cachedClearTimeout.call(null,marker)}catch(e){return
cachedClearTimeout.call(this,marker)}}}var queue=[];var draining=false;var currentQueue;var queueIndex=-
1;function
cleanUpNextTick(){if(!draining||!currentQueue){return}draining=false;if(currentQueue.length){queue=currentQueu
e.concat(queue)}else{queueIndex=-1}if(queue.length){drainQueue()}}function
drainQueue(){if(draining){return}var timeout=runTimeout(cleanUpNextTick);draining=true;var
len=queue.length;while(len){currentQueue=queue;queue=[];while(++queueIndex<len){if(currentQueue){currentQu
eue[queueIndex].run()}}queueIndex=-
1;len=queue.length}currentQueue=null;draining=false;runClearTimeout(timeout)}process.nextTick=function(fun){
var args=new Array(arguments.length-1);if(arguments.length>1){for(var i=1;i<arguments.length;i++){args[i-
1]=arguments[i]}}queue.push(new
Item(fun,args));if(queue.length===1&&!draining){runTimeout(drainQueue)}};function
Item(fun,array){this.fun=fun;this.array=array}Item.prototype.run=function(){this.fun.apply(null,this.array)};process
.title="browser";process.browser=true;process.env={};process.argv=[];process.version="";process.versions={};func
tion
noop(){}process.on=noop;process.addListener=noop;process.once=noop;process.off=noop;process.removeListener
=noop;process.removeAllListeners=noop;process.emit=noop;process.prependListener=noop;process.prependOnceL
istener=noop;process.listeners=function(name){return[]};process.binding=function(name){throw
 new Error("process.binding is not
supported")};process.cwd=function(){return"/"};process.chdir=function(dir){throw new Error("process.chdir is not
supported")};process.umask=function(){return 0}},function(module,exports){var
XML_CHARACTER_MAP={"&":"&","":""","":"'","<":"<",">":">"};function
escapeForXML(string){return string&&string.replace?string.replace(/([&"<>'])/g,function(str,item){return
XML_CHARACTER_MAP[item]}):string}module.exports=escapeForXML},function(module,exports){module.ex
ports=require("stream")},function(module,exports){module.exports=require("memoizee")},function(module,exports
){module.exports=require("css.escape")},function(module,exports,__webpack_require__){"use
strict";Object.defineProperty(exports,"__esModule",{value:true});exports.default=PresetApis;var
 _base=__webpack_require__(485);var _base2=_interopRequireDefault(_base);var
_oas=__webpack_require__(263);var _oas2=_interopRequireDefault(_oas);function
_interopRequireDefault(obj){return obj&&obj.__esModule?obj:{default:obj}}function
PresetApis(){return[_base2.default,_oas2.default]}},function(module,exports,__webpack_require__){"use
strict";Object.defineProperty(exports,"__esModule",{value:true});exports.default=function(){var
coreComponents={components:{App:_app2.default,authorizationPopup:_authorizationPopup2.default,authorizeBtn:
_authorizeBtn2.default,AuthorizeBtnContainer:_authorizeBtn4.default,authorizeOperationBtn:_authorizeOperation
Btn2.default,auths:_auths2.default,AuthItem:_authItem2.default,authError:_error2.default,oauth2:_oauth2.default,ap
iKeyAuth:_apiKeyAuth2.default,basicAuth:_basicAuth2.default,clear:_clear2.default,liveResponse:_liveResponse2.
default,info:_info2.default,InfoContainer:_info4.default,JumpToPath:_jumpToPath2.default,onlineValidatorBadge:_
onlineValidatorBadge2.default,operations:_operations2.default,operation:_operation2.default,OperationSummary:_o
perationSummary2.default,OperationSummaryMethod:_operationSummaryMethod2.default,OperationSummaryPat

h:_operationSummaryPath2.default,highlightCode:_highlightCode2.default,responses:_responses2.default,response:_response2.default,responseBody:_responseBody2.default,parameters:_parameters2.default,parameterRow:_parameterRow2.default,execute:_execute2.default,headers:_headers2.default,errors:_errors2.default,contentType:_contentType2.default,overview:_overview2.default,footer:_footer2.default,FilterContainer:_filter4.default,ParamBody:_paramBody2.default,curl:_curl2.default,schemes:_schemes2.default,SchemesContainer:_schemes4.default,modelExample:_modelExample2.default,ModelWrapper:_modelWrapper2.default,ModelCollapse:_modelCollapse2.default,Model:_model2.default,Models:_models2.default,EnumModel:_enumModel2.default,ObjectModel:_objectModel2.default,ArrayModel:_arrayModel2.default,PrimitiveModel:_primitiveModel2.default,Property:_property2.default,TryItOutButton:_tryItOutButton2.default,Markdown:_markdown2.default,BaseLayout:_base2.default,VersionPragmaFilter:_versionPragmaFilter2.default,VersionStamp:_versionStamp2.default,OperationExt:_operationExtensions2.default,OperationExtRow:_operationExtensionRow2.default,ParameterExt:_parameterExtension2.default,ParameterIncludeEmpty:_parameterIncludeEmpty2.default,OperationTag:_operationTag2.default,OperationContainer:_OperationContainer2.default,DeepLink:_deepLink2.default,InfoUrl:_info.InfoUrl,InfoBasePath:_info.InfoBasePath,SvgAssets:_svgAssets2.default}};var
formComponents={components:LayoutUtils};var
jsonSchemaComponents={components:JsonSchemaComponents};return[_configs2.default,_util2.default,_logs2.default,_view2.default,_spec2.default,_err2.default,_layout2.default,_samples2.default,coreComponents,formComponents,_swaggerJs2.default,jsonSchemaComponents,_auth2.default,_downloadUrl2.default,_deepLinking2.default,_filter2.default,_onComplete2.default]};var
_err=__webpack_require__(206);var _err2=_interopRequireDefault(_err);var
_layout=__webpack_require__(212);var _layout2=_interopRequireDefault(_layout);var
_spec=__webpack_require__(218);var _spec2=_interopRequireDefault(_spec);var
_view=__webpack_require__(231);var _view2=_interopRequireDefault(_view);var
_samples=__webpack_require__(236);var _samples2=_interopRequireDefault(_samples);var
_logs=__webpack_require__(237);var _logs2=_interopRequireDefault(_logs);var
_swaggerJs=__webpack_require__(238);var _swaggerJs2=_interopRequireDefault(_swaggerJs);var
_auth=__webpack_require__(240);var _auth2=_interopRequireDefault(_auth);var
_util=__webpack_require__(244);var _util2=_interopRequireDefault(_util);var
_downloadUrl=__webpack_require__(245);var _downloadUrl2=_interopRequireDefault(_downloadUrl);var
_configs=__webpack_require__(246);var _configs2=_interopRequireDefault(_configs);var
_deepLinking=__webpack_require__(250);var _deepLinking2=_interopRequireDefault(_deepLinking);var
_filter=__webpack_require__(255);var _filter2=_interopRequireDefault(_filter);var
_onComplete=__webpack_require__(257);var _onComplete2=_interopRequireDefault(_onComplete);var
_OperationContainer=__webpack_require__(582);var
_OperationContainer2=_interopRequireDefault(_OperationContainer);var _app=__webpack_require__(583);var
_app2=_interopRequireDefault(_app);var _authorizationPopup=__webpack_require__(584);var
_authorizationPopup2=_interopRequireDefault(_authorizationPopup);var
_authorizeBtn=__webpack_require__(585);var _authorizeBtn2=_interopRequireDefault(_authorizeBtn);var
_authorizeBtn3=__webpack_require__(586);var _authorizeBtn4=_interopRequireDefault(_authorizeBtn3);var
_authorizeOperationBtn=__webpack_require__(587);var
_authorizeOperationBtn2=_interopRequireDefault(_authorizeOperationBtn);var
_auths=__webpack_require__(588);var _auths2=_interopRequireDefault(_auths);var
_authItem=__webpack_require__(589);var _authItem2=_interopRequireDefault(_authItem);var
_error=__webpack_require__(590);var _error2=_interopRequireDefault(_error);var
_apiKeyAuth=__webpack_require__(591);var _apiKeyAuth2=_interopRequireDefault(_apiKeyAuth);var
_basicAuth=__webpack_require__(592);var _basicAuth2=_interopRequireDefault(_basicAuth);var
_oauth=__webpack_require__(593);var _oauth2=_interopRequireDefault(_oauth);var
_clear=__webpack_require__(595);var _clear2=_interopRequireDefault(_clear);var

_liveResponse=__webpack_require__(596);var _liveResponse2=_interopRequireDefault(_liveResponse);var
_onlineValidatorBadge=__webpack_require__(597);var
_onlineValidatorBadge2=_interopRequireDefault(_onlineValidatorBadge);var
_operations=__webpack_require__(598);var _operations2=_interopRequireDefault(_operations);var
_operationTag=__webpack_require__(599);var _operationTag2=_interopRequireDefault(_operationTag);var
_operation=__webpack_require__(600);var _operation2=_interopRequireDefault(_operation);var
_operationSummary=__webpack_require__(601);var
_operationSummary2=_interopRequireDefault(_operationSummary);var
_operationSummaryMethod=__webpack_require__(602);var
_operationSummaryMethod2=_interopRequireDefault(_operationSummaryMethod);var
_operationSummaryPath=__webpack_require__(603);var
_operationSummaryPath2=_interopRequireDefault(_operationSummaryPath);var
_operationExtensions=__webpack_require__(604);var
_operationExtensions2=_interopRequireDefault(_operationExtensions);var
_operationExtensionRow=__webpack_require__(605);var
_operationExtensionRow2=_interopRequireDefault(_operationExtensionRow);var
_highlightCode=__webpack_require__(606);var _highlightCode2=_interopRequireDefault(_highlightCode);var
_responses=__webpack_require__(608);var _responses2=_interopRequireDefault(_responses);var
_response=__webpack_require__(609);var _response2=_interopRequireDefault(_response);var
_responseBody=__webpack_require__(610);var _responseBody2=_interopRequireDefault(_responseBody);var
_parameters=__webpack_require__(613);var _parameters2=_interopRequireDefault(_parameters);var
_parameterExtension=__webpack_require__(614);var
_parameterExtension2=_interopRequireDefault(_parameterExtension);var
_parameterIncludeEmpty=__webpack_require__(615);var
_parameterIncludeEmpty2=_interopRequireDefault(_parameterIncludeEmpty);var
_parameterRow=__webpack_require__(616);var _parameterRow2=_interopRequireDefault(_parameterRow);var
_execute=__webpack_require__(617);var _execute2=_interopRequireDefault(_execute);var
_headers=__webpack_require__(618);var _headers2=_interopRequireDefault(_headers);var
_errors=__webpack_require__(619);var _errors2=_interopRequireDefault(_errors);var
_contentType=__webpack_require__(620);var _contentType2=_interopRequireDefault(_contentType);var
_overview=__webpack_require__(621);var _overview2=_interopRequireDefault(_overview);var
_info=__webpack_require__(622);var _info2=_interopRequireDefault(_info);var
_info3=__webpack_require__(623);var
_info4=_interopRequireDefault(_info3);var _jumpToPath=__webpack_require__(624);var
_jumpToPath2=_interopRequireDefault(_jumpToPath);var _footer=__webpack_require__(625);var
_footer2=_interopRequireDefault(_footer);var _filter3=__webpack_require__(626);var
_filter4=_interopRequireDefault(_filter3);var _paramBody=__webpack_require__(627);var
_paramBody2=_interopRequireDefault(_paramBody);var _curl=__webpack_require__(628);var
_curl2=_interopRequireDefault(_curl);var _schemes=__webpack_require__(630);var
_schemes2=_interopRequireDefault(_schemes);var _schemes3=__webpack_require__(631);var
_schemes4=_interopRequireDefault(_schemes3);var _modelCollapse=__webpack_require__(632);var
_modelCollapse2=_interopRequireDefault(_modelCollapse);var _modelExample=__webpack_require__(633);var
_modelExample2=_interopRequireDefault(_modelExample);var _modelWrapper=__webpack_require__(634);var
_modelWrapper2=_interopRequireDefault(_modelWrapper);var _model=__webpack_require__(260);var
_model2=_interopRequireDefault(_model);var
_models=__webpack_require__(636);var _models2=_interopRequireDefault(_models);var
_enumModel=__webpack_require__(637);var _enumModel2=_interopRequireDefault(_enumModel);var
_objectModel=__webpack_require__(638);var _objectModel2=_interopRequireDefault(_objectModel);var

_arrayModel=__webpack_require__(639);var _arrayModel2=_interopRequireDefault(_arrayModel);var
_primitiveModel=__webpack_require__(640);var _primitiveModel2=_interopRequireDefault(_primitiveModel);var
_property=__webpack_require__(641);var _property2=_interopRequireDefault(_property);var
_tryItOutButton=__webpack_require__(642);var _tryItOutButton2=_interopRequireDefault(_tryItOutButton);var
_versionPragmaFilter=__webpack_require__(643);var
_versionPragmaFilter2=_interopRequireDefault(_versionPragmaFilter);var
_versionStamp=__webpack_require__(644);var _versionStamp2=_interopRequireDefault(_versionStamp);var
_deepLink=__webpack_require__(645);var _deepLink2=_interopRequireDefault(_deepLink);var
_svgAssets=__webpack_require__(646);var _svgAssets2=_interopRequireDefault(_svgAssets);var
_markdown=__webpack_require__(261);var _markdown2=_interopRequireDefault(_markdown);var
_base=__webpack_require__(648);var _base2=_interopRequireDefault(_base);var
_layoutUtils=__webpack_require__(259);var LayoutUtils=_interopRequireWildcard(_layoutUtils);var
_jsonSchemaComponents=__webpack_require__(649);var
JsonSchemaComponents=_interopRequireWildcard(_jsonSchemaComponents);function
_interopRequireWildcard(obj){if(obj&&obj.__esModule){return obj}else{var newObj={};if(obj!=null){for(var key
in obj){if(Object.prototype.hasOwnProperty.call(obj,key))newObj[key]=obj[key]}}newObj.default=obj;return
newObj}}function _interopRequireDefault(obj){return
obj&&obj.__esModule?obj:{default:obj}}},function(module,exports,__webpack_require__){var
arrayReduce=__webpack_require__(187),baseEach=__webpack_require__(205),baseIteratee=__webpack_require__
(96),baseReduce=__webpack_require__(487),isArray=__webpack_require__(20);function
reduce(collection,iteratee,accumulator){var
func=isArray(collection)?arrayReduce:baseReduce,initAccum=arguments.length<3;return
func(collection,baseIteratee(iteratee,4),accumulator,initAccum,baseEach)}module.exports=reduce},function(module
,exports){function
baseReduce(collection,iteratee,accumulator,initAccum,eachFunc){eachFunc(collection,function(value,index,collecti
on){accumulator=initAccum?(initAccum=false,value):iteratee(accumulator,value,index,collection)});return
accumulator}module.exports=baseReduce},function(module,exports,__webpack_require__){module.exports={defa
ult:__webpack_require__(489),__esModule:true}},function(module,exports,__webpack_require__){__webpack_req
uire__(61);__webpack_require__(490);module.exports=__webpack_require__(10).Array.from},function(module,ex
ports,__webpack_require__){"use strict";var ctx=__webpack_require__(47);var
$export=__webpack_require__(25);var toObject=__webpack_require__(60);var
call=__webpack_require__(215);var isArrayIter=__webpack_require__(216);var
toLength=__webpack_require__(105);var createProperty=__webpack_require__(491);var
getIterFn=__webpack_require__(110);$export($export.S+$export.F*!__webpack_require__(217)(function(iter){Arr
ay.from(iter)}),"Array",{from:function from(arrayLike){var O=toObject(arrayLike);var C=typeof
this=="function"?this:Array;var aLen=arguments.length;var mapfn=aLen>1?arguments[1]:undefined;var
mapping=mapfn!==undefined;var index=0;var iterFn=getIterFn(O);var
length,result,step,iterator;if(mapping)mapfn=ctx(mapfn,aLen>2?arguments[2]:undefined,2);if(iterFn!=undefined&&
!(C==Array&&isArrayIter(iterFn))){for(iterator=iterFn.call(O),result=new
C;!(step=iterator.next()).done;index++){createProperty(result,index,mapping?call(iterator,mapfn,[step.value,index],t
rue):step.value)}}else{length=toLength(O.length);for(result=new
C(length);length>index;index++){createProperty(result,index,mapping?mapfn(O[index],index):O[index])}}result.le
ngth=index;return result}})},function(module,exports,__webpack_require__){"use
strict";var $defineProperty=__webpack_require__(29);var
createDesc=__webpack_require__(58);module.exports=function(object,index,value){if(index in
object)$defineProperty.f(object,index,createDesc(0,value));else
object[index]=value}},function(module,exports,__webpack_require__){__webpack_require__(177);__webpack_req
uire__(61);__webpack_require__(77);__webpack_require__(493);__webpack_require__(500);__webpack_require_

_(501);module.exports=__webpack_require__(10).Promise},function(module,exports,__webpack_require__){"use strict";var LIBRARY=__webpack_require__(78);var global=__webpack_require__(15);var ctx=__webpack_require__(47);var classof=__webpack_require__(111);var $export=__webpack_require__(25);var isObject=__webpack_require__(33);var aFunction=__webpack_require__(79);var anInstance=__webpack_require__(494);var forOf=__webpack_require__(495);var speciesConstructor=__webpack_require__(221);var task=__webpack_require__(222).set;var microtask=__webpack_require__(497)();var
newPromiseCapabilityModule=__webpack_require__(142);var perform=__webpack_require__(223);var promiseResolve=__webpack_require__(224);var PROMISE="Promise";var TypeError=global.TypeError;var process=global.process;var $Promise=global[PROMISE];var isNode=classof(process)=="process";var empty=function(){};var Internal,newGenericPromiseCapability,OwnPromiseCapability,Wrapper;var newPromiseCapability=newGenericPromiseCapability=newPromiseCapabilityModule.f;var USE_NATIVE=!!function(){try{var promise=$Promise.resolve(1);var FakePromise=(promise.constructor={})[__webpack_require__(14)("species")]=function(exec){exec(empty,empty)};return(isNode||typeof PromiseRejectionEvent=="function")&&promise.then(empty)instanceof FakePromise}catch(e){}}();var isThenable=function(it){var then;return isObject(it)&&typeof(then=it.then)=="function"?then:false};var notify=function(promise,isReject){if(promise._n)return;promise._n=true;var chain=promise._c;microtask(function(){var value=promise._v;var
ok=promise._s==1;var i=0;var run=function(reaction){var handler=ok?reaction.ok:reaction.fail;var resolve=reaction.resolve;var reject=reaction.reject;var domain=reaction.domain;var result,then,exited;try{if(handler){if(!ok){if(promise._h==2)onHandleUnhandled(promise);promise._h=1}if(handler===true)result=value;else{if(domain)domain.enter();result=handler(value);if(domain){domain.exit();exited=true}}if(result===reaction.promise){reject(TypeError("Promise-chain cycle"))}else if(then=isThenable(result)){then.call(result,resolve,reject)}else resolve(result)}else reject(value)}catch(e){if(domain&&!exited)domain.exit();reject(e)}};while(chain.length>i)run(chain[i++]);promise._c=[];promise._n=false;if(isReject&&!promise._h)onUnhandled(promise)})};var onUnhandled=function(promise){task.call(global,function(){var value=promise._v;var unhandled=isUnhandled(promise);var result,handler,console;if(unhandled){result=perform(function(){if(isNode){process.emit("unhandledRejection",value,promise)}else
if(handler=global.onunhandledrejection){handler({promise:promise,reason:value})}else if((console=global.console)&&console.error){console.error("Unhandled promise rejection",value)}});promise._h=isNode||isUnhandled(promise)?2:1}promise._a=undefined;if(unhandled&&result.e)throw result.v})};var isUnhandled=function(promise){return promise._h!==1&&(promise._a||promise._c).length===0};var onHandleUnhandled=function(promise){task.call(global,function(){var handler;if(isNode){process.emit("rejectionHandled",promise)}else if(handler=global.onrejectionhandled){handler({promise:promise,reason:promise._v})}})};var $reject=function(value){var promise=this;if(promise._d)return;promise._d=true;promise=promise._w||promise;promise._v=value;promise._s=2;if(!promise._a)promise._a=promise._c.slice();notify(promise,true)};var $resolve=function(value){var promise=this;var then;if(promise._d)return;promise._d=true;promise=promise._w||promise;try{if(promise===value)throw TypeError("Promise can't
be resolved itself");if(then=isThenable(value)){microtask(function(){var wrapper={_w:promise,_d:false};try{then.call(value,ctx($resolve,wrapper,1),ctx($reject,wrapper,1))}catch(e){$reject.call(wrapper,e)}})}else{promise._v=value;promise._s=1;notify(promise,false)}}catch(e){$reject.call({_w:promise

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,_d:false},e)}};if(!USE_NATIVE){$Promise=function
Promise(executor){anInstance(this,$Promise,PROMISE,"_h");aFunction(executor);Internal.call(this);try{executor(c
tx($resolve,this,1),ctx($reject,this,1))}catch(err){$reject.call(this,err)}};Internal=function
Promise(executor){this._c=[];this._a=undefined;this._s=0;this._d=false;this._v=undefined;this._h=0;this._n=false};I
nternal.prototype=__webpack_require__(498)($Promise.prototype,{then:function then(onFulfilled,onRejected){var
reaction=newPromiseCapability(speciesConstructor(this,$Promise));reaction.ok=typeof
onFulfilled=="function"?onFulfilled:true;reaction.fail=typeof
onRejected=="function"&&onRejected;reaction.domain=isNode?process.domain:undefined;this._c.push(reaction);if
(this._a)this._a.push(reaction);if(this._s)notify(this,false);return
 reaction.promise},catch:function(onRejected){return
this.then(undefined,onRejected)}});OwnPromiseCapability=function(){var promise=new
Internal;this.promise=promise;this.resolve=ctx($resolve,promise,1);this.reject=ctx($reject,promise,1)};newPromise
CapabilityModule.f=newPromiseCapability=function(C){return C===$Promise||C===Wrapper?new
OwnPromiseCapability(C):newGenericPromiseCapability(C)}}$export($export.G+$export.W+$export.F*!USE_N
ATIVE,{Promise:$Promise});__webpack_require__(81)($Promise,PROMISE);__webpack_require__(499)(PROMI
SE);Wrapper=__webpack_require__(10)[PROMISE];$export($export.S+$export.F*!USE_NATIVE,PROMISE,{rej
ect:function reject(r){var capability=newPromiseCapability(this);var $$reject=capability.reject;$$reject(r);return
capability.promise}});$export($export.S+$export.F*(LIBRARY||!USE_NATIVE),PROMISE,{resolve:function
resolve(x){return
promiseResolve(LIBRARY&&this===Wrapper?$Promise:this,x)}});$export($export.S+$export.F*!(USE_NATIV
E&&__webpack_require__(217)(function(iter){$Promise.all(iter)["catch"](empty)})),PROMISE,{all:function
 all(iterable){var C=this;var capability=newPromiseCapability(C);var resolve=capability.resolve;var
reject=capability.reject;var result=perform(function(){var values=[];var index=0;var
remaining=1;forOf(iterable,false,function(promise){var $index=index++;var
alreadyCalled=false;values.push(undefined);remaining++;C.resolve(promise).then(function(value){if(alreadyCalled
)return;alreadyCalled=true;values[$index]=value;--remaining||resolve(values)},reject)});--
remaining||resolve(values)});if(result.e)reject(result.v);return capability.promise},race:function race(iterable){var
C=this;var capability=newPromiseCapability(C);var reject=capability.reject;var
result=perform(function(){forOf(iterable,false,function(promise){C.resolve(promise).then(capability.resolve,reject)
})});if(result.e)reject(result.v);return
capability.promise}})},function(module,exports){module.exports=function(it,Constructor,name,forbiddenField){if(!
(it
 instanceof Constructor)||forbiddenField!==undefined&&forbiddenField in it){throw TypeError(name+": incorrect
invocation!")}return it}},function(module,exports,__webpack_require__){var ctx=__webpack_require__(47);var
call=__webpack_require__(215);var isArrayIter=__webpack_require__(216);var
anObject=__webpack_require__(27);var toLength=__webpack_require__(105);var
getIterFn=__webpack_require__(110);var BREAK={};var RETURN={};var
exports=module.exports=function(iterable,entries,fn,that,ITERATOR){var iterFn=ITERATOR?function(){return
iterable}:getIterFn(iterable);var f=ctx(fn,that,entries?2:1);var index=0;var length,step,iterator,result;if(typeof
iterFn!="function")throw TypeError(iterable+" is not
iterable!");if(isArrayIter(iterFn))for(length=toLength(iterable.length);length>index;index++){result=entries?f(anObj
ect(step=iterable[index])[0],step[1]):f(iterable[index]);if(result===BREAK||result===RETURN)return
 result}else
for(iterator=iterFn.call(iterable);!(step=iterator.next()).done;){result=call(iterator,f,step.value,entries);if(result===B
REAK||result===RETURN)return
result}};exports.BREAK=BREAK;exports.RETURN=RETURN},function(module,exports){module.exports=functi
on(fn,args,that){var un=that===undefined;switch(args.length){case 0:return un?fn():fn.call(that);case 1:return
un?fn(args[0]):fn.call(that,args[0]);case 2:return un?fn(args[0],args[1]):fn.call(that,args[0],args[1]);case 3:return
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un?fn(args[0],args[1],args[2]):fn.call(that,args[0],args[1],args[2]);case 4:return
un?fn(args[0],args[1],args[2],args[3]):fn.call(that,args[0],args[1],args[2],args[3])}return
fn.apply(that,args)}},function(module,exports,__webpack_require__){var global=__webpack_require__(15);var
macrotask=__webpack_require__(222).set;var
Observer=global.MutationObserver||global.WebKitMutationObserver;var process=global.process;var
Promise=global.Promise;var
isNode=__webpack_require__(57)(process)=="process";module.exports=function(){var
head,last,notify;var flush=function(){var
parent,fn;if(isNode&&(parent=process.domain))parent.exit();while(head){fn=head.fn;head=head.next;try{fn()}catc
h(e){if(head)notify();else last=undefined;throw
e}}last=undefined;if(parent)parent.enter()};if(isNode){notify=function(){process.nextTick(flush)}}else
if(Observer&&!(global.navigator&&global.navigator.standalone)){var toggle=true;var
node=document.createTextNode("");new
Observer(flush).observe(node,{characterData:true});notify=function(){node.data=toggle=!toggle}}else
if(Promise&&Promise.resolve){var
promise=Promise.resolve();notify=function(){promise.then(flush)}}else{notify=function(){macrotask.call(global,fl
ush)}}return function(fn){var
task={fn:fn,next:undefined};if(last)last.next=task;if(!head){head=task;notify()}last=task}}},function(module,export
s,__webpack_require__){var hide=__webpack_require__(38);module.exports=function(target,src,safe){for(var key
in src){if(safe&&target[key])target[key]=src[key];else
hide(target,key,src[key])}return target}},function(module,exports,__webpack_require__){"use strict";var
global=__webpack_require__(15);var core=__webpack_require__(10);var dP=__webpack_require__(29);var
DESCRIPTORS=__webpack_require__(34);var
SPECIES=__webpack_require__(14)("species");module.exports=function(KEY){var C=typeof
core[KEY]=="function"?core[KEY]:global[KEY];if(DESCRIPTORS&&C&&!C[SPECIES])dP.f(C,SPECIES,{con
figurable:true,get:function(){return this}})}},function(module,exports,__webpack_require__){"use strict";var
$export=__webpack_require__(25);var core=__webpack_require__(10);var global=__webpack_require__(15);var
speciesConstructor=__webpack_require__(221);var
promiseResolve=__webpack_require__(224);$export($export.P+$export.R,"Promise",{finally:function(onFinally){
var C=speciesConstructor(this,core.Promise||global.Promise);var isFunction=typeof onFinally=="function";return
this.then(isFunction?function(x){return promiseResolve(C,onFinally()).then(function(){return
x})}:onFinally,isFunction?function(e){return promiseResolve(C,onFinally()).then(function(){throw
e})}:onFinally)}})},function(module,exports,__webpack_require__){"use strict";var
$export=__webpack_require__(25);var newPromiseCapability=__webpack_require__(142);var
perform=__webpack_require__(223);$export($export.S,"Promise",{try:function(callbackfn){var
promiseCapability=newPromiseCapability.f(this);var
result=perform(callbackfn);(result.e?promiseCapability.reject:promiseCapability.resolve)(result.v);return
promiseCapability.promise}})},function(module,exports,__webpack_require__){module.exports=__webpack_requi
re__(503)},function(module,exports){module.exports=require("regenerator-
runtime")},function(module,exports,__webpack_require__){"use strict";exports.__esModule=true;var
_promise=__webpack_require__(220);var _promise2=_interopRequireDefault(_promise);function
_interopRequireDefault(obj){return obj&&obj.__esModule?obj:{default:obj}}exports.default=function(fn){return
function(){var
gen=fn.apply(this,arguments);return new _promise2.default(function(resolve,reject){function step(key,arg){try{var
info=gen[key](arg);var value=info.value}catch(error){reject(error);return}if(info.done){resolve(value)}else{return
_promise2.default.resolve(value).then(function(value){step("next",value)},function(err){step("throw",err)})}}return
step("next")})}}},function(module,exports,__webpack_require__){"use strict";var
loader=__webpack_require__(506);var dumper=__webpack_require__(525);function deprecated(name){return

function(){throw new Error("Function "+name+" is deprecated and cannot be used.")}}module.exports.Type=__webpack_require__(11);module.exports.Schema=__webpack_require__(56);module.exports.FAILSAFE_SCHEMA=__webpack_require__(143);module.exports.JSON_SCHEMA=__webpack_require__(227);module.exports.CORE_SCHEMA=__webpack_require__(226);module.exports.DEFAULT_SAFE_SCHEMA=__webpack_require__(73);module.exports.DEFAULT_FULL_SCHEMA=__webpack_require__(100);module.exports.load=loader.load;module.exports.loadAll=loader.loadAll;module.exports.safeLoad=loader.safeLoad;module.exports.safeLoadAll=loader.safeLoadAll;module.exports.dump=dumper.dump;module.exports.safeDump=dumper.safeDump;module.exports.YAMLException=__webpack_require__(72);module.exports.MINIMAL_SCHEMA=__webpack_require__(143);module.exports.SAFE_SCHEMA=__webpack_require__(73);module.exports.DEFAULT_SCHEMA=__webpack_require__(100);module.exports.scan=deprecated("scan");module.exports.parse=deprecated("parse");module.exports.compose=deprecated("compose");module.exports.addConstructor=deprecated("addConstructor")},function(module,exports,__webpack_require__){"use strict";var common=__webpack_require__(55);var YAMLException=__webpack_require__(72);var Mark=__webpack_require__(507);var DEFAULT_SAFE_SCHEMA=__webpack_require__(73);var DEFAULT_FULL_SCHEMA=__webpack_require__(100);var _hasOwnProperty=Object.prototype.hasOwnProperty;var CONTEXT_FLOW_IN=1;var CONTEXT_FLOW_OUT=2;var CONTEXT_BLOCK_IN=3;var CONTEXT_BLOCK_OUT=4;var CHOMPING_CLIP=1;var CHOMPING_STRIP=2;var CHOMPING_KEEP=3;var PATTERN_NON_PRINTABLE=/[\x00-\x08\x0B\x0C\x0E-\x1F\x7F-\x84\x86-\x9F\uFFFE\uFFFF]|[\uD800-\uDBFF](?![\uDC00-\uDFFF])|(?:[^\uD800-\uDBFF]|^)[\uDC00-\uDFFF]/;var PATTERN_NON_ASCII_LINE_BREAKS=/[\x85\u2028\u2029]/;var PATTERN_FLOW_INDICATORS=/[,\[\]\{\}]/;var PATTERN_TAG_HANDLE=/^(?:!|!!|![a-z\-]+!)$/i;var PATTERN_TAG_URI=/^(?:!|[^,\[\]\{\}])(?:%[0-9a-f]{2}|[0-9a-z\-#;\/\?:@&=\+\$,_\.!~*'\(\)\[\]])*$/i;function is_EOL(c){return c===10||c===13}function is_WHITE_SPACE(c){return c===9||c===32}function is_WS_OR_EOL(c){return c===9||c===32||c===10||c===13}function is_FLOW_INDICATOR(c){return c===44||c===91||c===93||c===123||c===125}function fromHexCode(c){var lc;if(48<=c&&c<=57){return c-48}lc=c|32;if(97<=lc&&lc<=102){return lc-97+10}return-1}function escapedHexLen(c){if(c===120){return 2}if(c===117){return 4}if(c===85){return 8}return 0}function fromDecimalCode(c){if(48<=c&&c<=57){return c-48}return-1}function simpleEscapeSequence(c){return c===48?"\0":c===97?"":c===98?"\b":c===116?"\t":c===9?"\t":c===110?"\n":c===118?"\v":c===102?"\f":c===114?"\r":c===101?"":c===32?" ":c===34?"":c===47?"/":c===92?"\\":c===78?"

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* /opt/cola/permits/1836173787_1698743149.8728359/0/swagger-ui-dist-3-20-7-1-tgz/package/swagger-ui.js
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1.3207 github.com/hashicorp/terraform-provider-vsphere 0.0.0-20231012195041-6aa0e845ef9a

1.3207.1 Available under license :

```
---
subcategory: "Administration"
layout: "vsphere"
page_title: "VMware vSphere: vsphere_license"
sidebar_current: "docs-vsphere-data-source-admin-license"
description: |-
 Provides a VMware vSphere license data source. This can be used to get the
 general attributes of license keys.
---

# vsphere\_license

The `vsphere_license` data source can be used to get the general attributes of
a license keys from a vCenter Server instance.

## Example Usage

```hcl
data "vsphere_license" "license" {
 license_key = "00000-00000-00000-00000-00000"
}
```

Argument Reference

The following arguments are supported:

* `license_key` - (Required) The license key.

Attribute Reference

The following attributes are exported:

* `labels` - A map of key/value pairs attached as labels (tags) to the license key.
* `edition_key` - The product edition of the license key.
* `total` - Total number of units (example: CPUs) contained in the license.
```

* `used` - The number of units (example: CPUs) assigned
 to this license.
* `name` - The display name for the license.
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==========

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```
// Copyright (c) HashiCorp, Inc.
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package vsphere

import (
 "errors"
 "fmt"
 "os"
 "strconv"
 "testing"

 "regexp"

 "github.com/hashicorp/terraform-plugin-sdk/v2/helper/resource"
 "github.com/hashicorp/terraform-plugin-sdk/v2/terraform"
 "github.com/vmware/govmomi/license"
)

const testAccVSphereLicenseInvalidConfig = `
resource "vsphere_license" "foo" {
license_key = "HN422-47193-58V7M-03086-0JAN2"
}
`

func TestAccResourceVSphereLicense_basic(t *testing.T) {
 resource.Test(t, resource.TestCase{
  PreCheck: func() {
   RunSweepers()
   testAccPreCheck(t)
   testAccVSpherePreLicenseBasicCheck(t)
  },
  Providers:    testAccProviders,
  CheckDestroy: testAccVSphereLicenseDestroy,
  Steps: []resource.TestStep{
   {
    Config: testAccVSphereLicenseBasicConfig(),
    Check: resource.ComposeTestCheckFunc(
     testAccVSphereLicenseExists("vsphere_license.foo"),
```

```
    ),
   },
  },
 })
}

func TestAccResourceVSphereLicense_invalid(t *testing.T) {
 resource.Test(t,
 resource.TestCase{
  PreCheck: func() {
   RunSweepers()
   testAccPreCheck(t)
  },
  Providers:    testAccProviders,
  CheckDestroy: testAccVSphereLicenseDestroy,
  Steps: []resource.TestStep{
   {
    Config: testAccVSphereLicenseInvalidConfig,
    Check: resource.ComposeTestCheckFunc(
     testAccVSphereLicenseNotExists("vsphere_license.foo"),
    ),
    ExpectError: regexp.MustCompile("License is not valid for this product"),
   },
  },
 })
}

func TestAccResourceVSphereLicense_withLabelsOnVCenter(t *testing.T) {
 resource.Test(t, resource.TestCase{
  PreCheck: func() {
   RunSweepers()
   testAccPreCheck(t)
   testAccVSpherePreLicenseBasicCheck(t)
   testAccVspherePreLicenseESXiServerIsNotSetCheck(t)
  },
  Providers:    testAccProviders,
  CheckDestroy: testAccVSphereLicenseDestroy,
  Steps: []resource.TestStep{
   {
    Destroy: false,
    Config:  testAccVSphereLicenseWithLabelConfig(),
    Check: resource.ComposeTestCheckFunc(
     testAccVSphereLicenseWithLabelExists("vsphere_license.foo"),
    ),
   },
  },
 })
}
```

```
func
 TestAccResourceVSphereLicense_withLabelsOnESXiServer(t *testing.T) {
 resource.Test(t, resource.TestCase{
  PreCheck: func() {
   RunSweepers()
   testAccPreCheck(t)
   testAccVSpherePreLicenseBasicCheck(t)
   testAccSkipIfNotEsxi(t)
  },
  Providers:    testAccProviders,
  CheckDestroy: testAccVSphereLicenseDestroy,
  Steps: []resource.TestStep{
   {
    Config: testAccVSphereLicenseWithLabelConfig(),
    // This error will be thrown when ran against an ESXi server.
    ExpectError: regexp.MustCompile("Labels are not allowed in ESXi"),
   },
  },
 })
}

func testAccVspherePreLicenseESXiServerIsNotSetCheck(t *testing.T) {
 key, err := strconv.ParseBool(os.Getenv("TF_VAR_VSPHERE_TEST_ESXI"))
 if err == nil && key {
  t.Skip("TF_VAR_VSPHERE_TEST_ESXI must not be set for this acceptance test")
 }
}

func testAccVSphereLicenseWithLabelConfig() string {
 return fmt.Sprintf(`
resource "vsphere_license" "foo" {
license_key = "%s"
 labels
 = {
  VpxClientLicenseLabel = "Hello World"
  TestTitle = "fooBar"
 }
}
`, os.Getenv("TF_VAR_VSPHERE_LICENSE"))
}

func testAccVSphereLicenseBasicConfig() string {
 return fmt.Sprintf(`
resource "vsphere_license" "foo" {
license_key = "%s"
}
`, os.Getenv("TF_VAR_VSPHERE_LICENSE"))
```

```
}

func testAccVSphereLicenseDestroy(s *terraform.State) error {
 client := testAccProvider.Meta().(*Client).vimClient
 manager := license.NewManager(client.Client)
 message := ""
 for _, rs := range s.RootModule().Resources {
  if rs.Type != "vsphere_license" {
   continue
  }

  key := rs.Primary.ID
  if isKeyPresent(key, manager) {
   message += fmt.Sprintf("%s is still present on the server", key)
  }
 }
 if message != "" {
  return errors.New(message)
 }
 return nil
}

func testAccVSphereLicenseExists(name string) resource.TestCheckFunc {
 return func(s *terraform.State) error {
  rs, ok := s.RootModule().Resources[name]

  if !ok {
   return fmt.Errorf("%s key not found on the server", name)
  }

  client
 := testAccProvider.Meta().(*Client).vimClient
  manager := license.NewManager(client.Client)

  if !isKeyPresent(rs.Primary.ID, manager) {
   return fmt.Errorf("%s key not found on the server", rs.Primary.ID)
  }

  return nil
 }
}

func testAccVSphereLicenseNotExists(name string) resource.TestCheckFunc {
 return func(s *terraform.State) error {
  _, ok := s.RootModule().Resources[name]

  if ok {
   return fmt.Errorf("%s key should not be present on the server", name)
```

```
  }

  return nil
 }
}

func testAccVSpherePreLicenseBasicCheck(t *testing.T) {
 if key := os.Getenv("TF_VAR_VSPHERE_LICENSE"); key == "" {
  t.Fatal("TF_VAR_VSPHERE_LICENSE must be set for acceptance test")
 }
}

func testAccVSphereLicenseWithLabelExists(name string) resource.TestCheckFunc {
 return func(s *terraform.State) error {
  rs, ok := s.RootModule().Resources[name]

  if !ok {
   return fmt.Errorf("%s key not found on the server", name)
  }

  client := testAccProvider.Meta().(*Client).vimClient
  manager
 := license.NewManager(client.Client)

  if !isKeyPresent(rs.Primary.ID, manager) {
   return fmt.Errorf("%s key not found on the server", rs.Primary.ID)
  }

  info := getLicenseInfoFromKey(rs.Primary.ID, manager)

  if len(info.Labels) == 0 {
   return fmt.Errorf("The labels were not set for the key %s", info.LicenseKey)
  }

  if len(info.Labels) != 2 {
   return fmt.Errorf(`The number of labels on the server are incorrect. Expected 2 Got %d`,
    len(info.Labels))
  }

  return nil
 }
}
---
subcategory: "Administration"
layout: "vsphere"
page_title: "VMware vSphere: vsphere_license"
sidebar_current: "docs-vsphere-resource-admin-license"
description: |-
```

Provides a VMware vSphere license resource. This can be used to add and remove license keys.
---

vsphere_license

Provides a VMware vSphere license resource. This can be used to add and remove license keys.

Example Usage

```hcl
resource "vsphere_license" "licenseKey" {
 license_key = "452CQ-2EK54-K8742-00000-00000"

 labels {
   VpxClientLicenseLabel = "Hello World"
   Workflow              = "Hello World"
 }

}
```

Argument Reference

The following arguments are supported:

* `license_key` - (Required) The license key to add.
* `labels` - (Optional) A map of key/value pairs to be attached as labels (tags) to the license key.

Attributes Reference

The following attributes are exported:

* `edition_key` - The product edition of the license key.
* `total` - Total number of units (example: CPUs) contained
 in the license.
* `used` - The number of units (example: CPUs) assigned to this license.
* `name` - The display name for the license.
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package vsphere

import (
 "errors"
 "fmt"
 "log"

```
 "context"

 "github.com/hashicorp/terraform-plugin-sdk/v2/helper/schema"
 "github.com/vmware/govmomi/license"
 "github.com/vmware/govmomi/vim25/methods"
 "github.com/vmware/govmomi/vim25/types"
)

var (
 // ErrNoSuchKeyFound is an error primarily thrown by the Read method of the resource.
 // The error doesn't display the key itself for security reasons.
 ErrNoSuchKeyFound = errors.New("The key was not found")
 // ErrKeyCannotBeDeleted is an error which occurs when a key that is used by VMs is
 // being removed
 ErrKeyCannotBeDeleted = errors.New("The key wasn't deleted")
)

func resourceVSphereLicense() *schema.Resource {
 return &schema.Resource{

  SchemaVersion: 1,

  Create: resourceVSphereLicenseCreate,
  Read:   resourceVSphereLicenseRead,
  Update: resourceVSphereLicenseUpdate,
  Delete: resourceVSphereLicenseDelete,

  Schema: map[string]*schema.Schema{
   "license_key":
  {
    Type:     schema.TypeString,
    Required: true,
    ForceNew: true,
   },
   "labels": {
    Type:     schema.TypeMap,
    Optional: true,
    Elem:     &schema.Schema{Type: schema.TypeString},
   },

   // computed properties returned by the API
   "edition_key": {
    Type:     schema.TypeString,
    Computed: true,
   },
   "name": {
    Type:     schema.TypeString,
    Computed: true,
```

```
  },
  "total": {
   Type:     schema.TypeInt,
   Computed: true,
  },
  "used": {
   Type:     schema.TypeInt,
   Computed: true,
  },
 },
}
}

func resourceVSphereLicenseCreate(d *schema.ResourceData, meta interface{}) error {
 log.Println("[INFO] Running the create method")

 client := meta.(*Client).vimClient
 manager := license.NewManager(client.Client)

 key := d.Get("license_key").(string)

 log.Println(" [INFO] Reading the key from the resource data")
 var labelMap map[string]interface{}
 if labels, ok := d.GetOk("labels"); ok {
  labelMap = labels.(map[string]interface{})
 }

 var
 info types.LicenseManagerLicenseInfo
 var err error
 switch t := client.ServiceContent.About.ApiType; t {
 case "HostAgent":
  // Labels are not allowed in ESXi
  if len(labelMap) != 0 {
   return errors.New("Labels are not allowed in ESXi")
  }
  info, err = manager.Update(context.TODO(), key, nil)

 case "VirtualCenter":
  info, err = manager.Add(context.TODO(), key, nil)
  if err != nil {
   return err
  }
  err = updateLabels(manager, key, labelMap)

 default:
  return fmt.Errorf("unsupported ApiType: %s", t)
 }
```

```
 if err != nil {
  return err
 }

 if err = DecodeError(info); err != nil {
  return err
 }

 // This can be used in the read method to set the computed parameters
 d.SetId(info.LicenseKey)

 return resourceVSphereLicenseRead(d, meta)
}

func resourceVSphereLicenseRead(d *schema.ResourceData, meta interface{}) error {
 log.Println("[INFO] Running the read method")

 client := meta.(*Client).vimClient
 manager := license.NewManager(client.Client)

 if info
 := getLicenseInfoFromKey(d.Get("license_key").(string), manager); info != nil {
  log.Println("[INFO] Setting the values")
  _ = d.Set("edition_key", info.EditionKey)
  _ = d.Set("total", info.Total)
  _ = d.Set("used", info.Used)
  _ = d.Set("name", info.Name)
  _ = d.Set("labels", keyValuesToMap(info.Labels))
 } else {
  return ErrNoSuchKeyFound
 }

 return nil
}

// resourceVSphereLicenseUpdate check for change in labels of the key and updates them.
func resourceVSphereLicenseUpdate(d *schema.ResourceData, meta interface{}) error {
 log.Println("[INFO] Running the update method")

 client := meta.(*Client).vimClient
 manager := license.NewManager(client.Client)

 if key, ok := d.GetOk("license_key"); ok {
  licenseKey := key.(string)
  if !isKeyPresent(licenseKey, manager) {
   return ErrNoSuchKeyFound
  }
```

```
  if d.HasChange("labels") {
   labelMap := d.Get("labels").(map[string]interface{})

   err := updateLabels(manager, licenseKey, labelMap)
   if err != nil {
    return err
   }
  }
 }

 return
 resourceVSphereLicenseRead(d, meta)
}

func updateLabels(manager *license.Manager, licenseKey string, labelMap map[string]interface{}) error {
 for key, value := range labelMap {
  err := UpdateLabel(context.TODO(), manager, licenseKey, key, value.(string))
  if err != nil {
   return err
  }
 }
 return nil
}

func resourceVSphereLicenseDelete(d *schema.ResourceData, meta interface{}) error {
 log.Println("[INFO] Running the delete method")

 client := meta.(*Client).vimClient
 manager := license.NewManager(client.Client)

 if key := d.Get("license_key").(string); isKeyPresent(key, manager) {
  err := manager.Remove(context.TODO(), key)

  if err != nil {
   return err
  }

  // if the key is still present
  if isKeyPresent(key, manager) {
   return ErrKeyCannotBeDeleted
  }
  d.SetId("")
  return nil
 }
 return ErrNoSuchKeyFound
}
```

```
func getLicenseInfoFromKey(key string, manager *license.Manager) *types.LicenseManagerLicenseInfo {
 // Use of decode is not returning
 labels so using list instead
 // Issue - https://github.com/vmware/govmomi/issues/797
 infoList, _ := manager.List(context.TODO())
 for _, info := range infoList {
  if info.LicenseKey == key {
   return &info
  }
 }
 return nil
}

// isKeyPresent iterates over the InfoList to check if the license is present or not.
func isKeyPresent(key string, manager *license.Manager) bool {
 infoList, _ := manager.List(context.TODO())

 for _, info := range infoList {
  if info.LicenseKey == key {
   return true
  }
 }

 return false
}

// UpdateLabel provides a wrapper around the UpdateLabel data objects
func UpdateLabel(ctx context.Context, m *license.Manager, licenseKey string, key string, val string) error {
 req := types.UpdateLicenseLabel{
  This:       m.Reference(),
  LicenseKey: licenseKey,
  LabelKey:   key,
  LabelValue: val,
 }

 _, err := methods.UpdateLicenseLabel(ctx, m.Client(), &req)
 return err
}

// DecodeError tries to find a specific error which occurs when an invalid key is passed
//
 to the server
func DecodeError(info types.LicenseManagerLicenseInfo) error {
 for _, property := range info.Properties {
  if property.Key == "diagnostic" {
   return errors.New(property.Value.(string))
  }
 }
```

```
 return nil
}

func keyValuesToMap(keyValues []types.KeyValue) map[string]interface{} {
 KVMap := make(map[string]interface{})
 for _, keyValue := range keyValues {
  KVMap[keyValue.Key] = keyValue.Value
 }
 return KVMap
}
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package vsphere

import (
 "log"

 "github.com/hashicorp/terraform-plugin-sdk/v2/helper/schema"
 "github.com/vmware/govmomi/license"
)

func dataSourceVSphereLicense() *schema.Resource {
 return &schema.Resource{
  Read: dataSourceVSphereLicenseRead,

  Schema: map[string]*schema.Schema{
   "license_key": {
    Type:     schema.TypeString,
    Required: true,
   },

   // computed properties returned by the API
   "id": {
    Type:     schema.TypeString,
    Computed: true,
   },
   "labels": {
    Type:     schema.TypeMap,
    Computed: true,
    Elem:     &schema.Schema{Type: schema.TypeString},
   },
   "edition_key": {
    Type:     schema.TypeString,
    Computed: true,
   },
   "name": {
```

```
    Type:     schema.TypeString,
    Computed: true,
   },
   "total": {
    Type:     schema.TypeInt,
    Computed: true,
   },
   "used": {
    Type:     schema.TypeInt,
    Computed: true,
   },
  },
 }
}

func dataSourceVSphereLicenseRead(d
 *schema.ResourceData, meta interface{}) error {

 client := meta.(*Client).vimClient
 manager := license.NewManager(client.Client)
 licenseKey := d.Get("license_key").(string)
 if info := getLicenseInfoFromKey(d.Get("license_key").(string), manager); info != nil {
  log.Println("[INFO] Setting the values")
  d.Set("edition_key", info.EditionKey)
  d.Set("total", info.Total)
  d.Set("used", info.Used)
  d.Set("name", info.Name)
  if err := d.Set("labels", keyValuesToMap(info.Labels)); err != nil {
   return err
  }
  d.SetId(licenseKey)
  return nil
 } else {
  return ErrNoSuchKeyFound
 }
}
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package vsphere

import (
 "fmt"
 "os"
 "testing"

 "github.com/hashicorp/terraform-plugin-sdk/v2/helper/resource"
)
```

```
func TestAccDataSourceVSphereLicense_basic(t *testing.T) {
 resource.Test(t, resource.TestCase{
  PreCheck: func() {
   RunSweepers()
   testAccPreCheck(t)
   testAccDataSourceVSphereLicensePreCheck(t)
  },
  Providers: testAccProviders,
  Steps: []resource.TestStep{
   {
    Config: testAccDataSourceVSphereLicenseConfig(),
    Check: resource.ComposeTestCheckFunc(
     resource.TestCheckResourceAttr(
      "data.vsphere_license.license",
      "id",
      os.Getenv("TF_VAR_VSPHERE_LICENSE"),
     ),
    ),
   },
  },
 })
}

func testAccDataSourceVSphereLicensePreCheck(t *testing.T) {
 if os.Getenv("TF_VAR_VSPHERE_LICENSE") == "" {
  t.Skip("set TF_VAR_VSPHERE_LICENSE to run vsphere_license acceptance tests")
 }
}

func testAccDataSourceVSphereLicenseConfig() string {
 return fmt.Sprintf(`
data "vsphere_license"
 "license" {
 license_key = "%s"
}
`, os.Getenv("TF_VAR_VSPHERE_LICENSE"))
}
```

1.3208 easyjson 0.7.7

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1.3209 miekg-dns 271c58e0c14f552178ea321a545ff9af38930f39

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1.3210 mitchellh-mapstructure 482a9fd5fa83e8c4e7817413b80f3eb8feec03ef

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1.3211 pflag 5644820622454e71517561946e3d94b9f9db6842

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1.3212 activemq-jms-pool 5.18.3

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1.3213 activemq 5.18.3

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1.3221 github.com/vmihailenco/msgpack/v5 5.4.1

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1.3222 github.com/getkin/kin-openapi 0.120.0

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```
package openapi3

import (
 "context"
 "encoding/json"
 "errors"
)

// License is specified by OpenAPI/Swagger standard version 3.
// See https://github.com/OAI/OpenAPI-Specification/blob/main/versions/3.0.3.md#license-object
type License struct {
 Extensions map[string]interface{} `json:"-" yaml:"-"`

 Name string `json:"name" yaml:"name"` // Required
 URL  string `json:"url,omitempty" yaml:"url,omitempty"`
}

// MarshalJSON returns the JSON encoding of License.
func (license License) MarshalJSON() ([]byte, error) {
 m := make(map[string]interface{}, 2+len(license.Extensions))
 for k, v := range license.Extensions {
  m[k] = v
 }
 m["name"] = license.Name
 if x := license.URL; x != "" {
  m["url"] = x
 }
 return json.Marshal(m)
}

// UnmarshalJSON sets License to a copy of data.
func (license *License) UnmarshalJSON(data []byte) error {
 type LicenseBis License
 var x LicenseBis
```

```
 if err := json.Unmarshal(data, &x); err != nil {
  return err
 }
 _ = json.Unmarshal(data, &x.Extensions)
 delete(x.Extensions,
 "name")
 delete(x.Extensions, "url")
 *license = License(x)
 return nil
}

// Validate returns an error if License does not comply with the OpenAPI spec.
func (license *License) Validate(ctx context.Context, opts ...ValidationOption) error {
 ctx = WithValidationOptions(ctx, opts...)

 if license.Name == "" {
  return errors.New("value of license name must be a non-empty string")
 }

 return validateExtensions(ctx, license.Extensions)
}
```

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1.3223 nkeys 0.4.6

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1.3224 terraform 1.3.1

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1.3226 golang 1.21.4

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1.3230 go-mssqldb 1.5.0

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1.3231 go-cty 1.13.0

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1.3232 grafana-gofpdf 0.0.0-20231002120153-857cc45be447

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1.3233 github.com/centrifugal/centrifuge 0.30.2

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1.3234 github.com/microsoft/go-mssqldb 1.5.0

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1.3235 grafana-cue 0.0.0-20230926092038-971951014e3f

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1.3239 github.com/redis/rueidis 1.0.16

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1.3245 github.com/hashicorp/golang-lru/v2 2.0.7

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1.3246 golang 1.20.11

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1.3251 google.golang.org/genproto/googleapis/rpc 0.0.0-20231106174013-bbf56f31fb17

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1.3258 ncurses 6.1-10.20180224.el8

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1.3262 jsonschema 4.20.0

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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```
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package pq

import (
 "context"
 "database/sql/driver"
)

// NoticeHandler returns the notice handler on the given connection, if any. A
// runtime panic occurs if c is not a pq connection. This is rarely used
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
 return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A
// runtime panic occurs if c is not a pq connection. A nil handler may be used
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and
// ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
 c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
// on it.
type NoticeHandlerConnector
 struct {
 driver.Connector
 noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
 c, err := n.Connector.Connect(ctx)
 if err == nil {
  SetNoticeHandler(c, n.noticeHandler)
 }
 return c, err
}
```

```
// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  return c.noticeHandler
 }
 return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and setting the notice
//
 handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  c.noticeHandler = handler
  return c
 }
 return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}
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1.3264 go-md2man 2.0.3

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1.3265 prometheus-client 1.17.0

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1.3267 ini 1.66.2

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1.3268 sigs-k8s-io-yaml 1.4.0

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

That's all there is to it!

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1.3271 python-certifi 2023.11.17

1.3271.1 Available under license :

This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates

file (certdata.txt). This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.3272 cobra 1.8.0

1.3272.1 Available under license :

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Found in path(s):
* /opt/cola/permits/1850148317_1700476305.0237145/0/project-nisei-cobra-v1-8-0-0-gb4b183f-tar-gz/Project-NISEI-cobra-b4b183f/app/assets/javascripts/awesomplete.js

1.3273 mpfr4 4.2.1-r0

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables
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uses the Library", as object code and/or source code, so that the
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1.3276 jackson-databind 2.16.0

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1.3277 jackson 2.16.0

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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* /opt/cola/permits/1852068173_1700657631.0916433/0/netty-common-4-1-100-final-sources-1-jar/io/netty/util/HashingStrategy.java
* /opt/cola/permits/1852068173_1700657631.0916433/0/netty-common-4-1-100-final-sources-1-jar/io/netty/util/internal/PriorityQueueNode.java
* /opt/cola/permits/1852068173_1700657631.0916433/0/netty-common-4-1-100-final-sources-1-jar/io/netty/util/concurrent/ThreadProperties.java
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 /opt/cola/permits/1852068173_1700657631.0916433/0/netty-common-4-1-100-final-sources-1-jar/io/netty/util/DomainMappingBuilder.java
* /opt/cola/permits/1852068173_1700657631.0916433/0/netty-common-4-1-100-final-sources-1-jar/io/netty/util/concurrent/AbstractScheduledEventExecutor.java
* /opt/cola/permits/1852068173_1700657631.0916433/0/netty-common-4-1-100-final-sources-1-jar/io/netty/util/internal/DefaultPriorityQueue.java
* /opt/cola/permits/1852068173_1700657631.0916433/0/netty-common-4-1-100-final-sources-1-jar/io/netty/util/internal/LongCounter.java
* /opt/cola/permits/1852068173_1700657631.0916433/0/netty-common-4-1-100-final-sources-1-jar/io/netty/util/AsyncMapping.java
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/opt/cola/permits/1852068173_1700657631.0916433/0/netty-common-4-1-100-final-sources-1-jar/io/netty/util/internal/logging/FormattingTuple.java
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<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
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 <description>Java Concurrency Tools Core Library</description>
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  <dependency>
   <groupId>junit</groupId>
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  <dependency>
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  <name>jctools-jctools</name>
  <url>https://api.bintray.com/maven/jctools/jctools/jctools-core/;publish=1</url>
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<url>https://github.com/JCTools</url>
<inceptionYear>2013</inceptionYear>

<licenses>
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  <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
  <distribution>repo</distribution>
 </license>
</licenses>

<scm>
 <url>https://github.com/JCTools/JCTools</url>
 <connection>scm:git:https://github.com/JCTools/JCTools</connection>
 <tag>HEAD</tag>
</scm>

<developers>
 <developer>
  <url>https://github.com/nitsanw</url>
 </developer>
 <developer>
  <url>https://github.com/mjpt777</url>
```

```
  </developer>
  <developer>
   <url>https://github.com/RichardWarburton</url>
  </developer>
  <developer>
   <url>https://github.com/kay</url>
  </developer>
  <developer>
   <url>https://github.com/franz1981</url>
  </developer>
 </developers>

 <prerequisites>
  <maven>3.5.0</maven>
 </prerequisites>

 <properties>
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  <java.version>1.6</java.version>
  <java.test.version>1.8</java.test.version>

  <maven.compiler.source>${java.version}</maven.compiler.source>
  <maven.compiler.target>${java.version}</maven.compiler.target>
  <maven.compiler.testSource>${java.test.version}</maven.compiler.testSource>
  <maven.compiler.testTarget>${java.test.version}</maven.compiler.testTarget>

  <hamcrest.version>1.3</hamcrest.version>
  <junit.version>4.12</junit.version>
  <guava-testlib.version>21.0</guava-testlib.version>
 </properties>
</project>
```

Found
 in path(s):
* /opt/cola/permits/1852068173_1700657631.0916433/0/netty-common-4-1-100-final-sources-1-jar/META-INF/maven/org.jctools/jctools-core/pom.xml
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* /opt/cola/permits/1852068173_1700657631.0916433/0/netty-common-4-1-100-final-sources-1-jar/io/netty/util/concurrent/PromiseAggregator.java
* /opt/cola/permits/1852068173_1700657631.0916433/0/netty-common-4-1-100-final-sources-1-jar/io/netty/util/ResourceLeakHint.java
* /opt/cola/permits/1852068173_1700657631.0916433/0/netty-common-4-1-100-final-sources-1-jar/io/netty/util/concurrent/PromiseNotifier.java
* /opt/cola/permits/1852068173_1700657631.0916433/0/netty-common-4-1-100-final-sources-1-jar/io/netty/util/internal/InternalThreadLocalMap.java
* /opt/cola/permits/1852068173_1700657631.0916433/0/netty-common-4-1-100-final-sources-1-jar/io/netty/util/ThreadDeathWatcher.java
* /opt/cola/permits/1852068173_1700657631.0916433/0/netty-common-4-1-100-final-sources-1-jar/io/netty/util/Mapping.java
* /opt/cola/permits/1852068173_1700657631.0916433/0/netty-common-4-1-100-final-sources-1-jar/io/netty/util/internal/IntegerHolder.java
* /opt/cola/permits/1852068173_1700657631.0916433/0/netty-common-4-1-100-final-sources-1-jar/io/netty/util/internal/UnpaddedInternalThreadLocalMap.java
* /opt/cola/permits/1852068173_1700657631.0916433/0/netty-common-4-1-100-final-sources-1-jar/io/netty/util/DomainNameMapping.java
* /opt/cola/permits/1852068173_1700657631.0916433/0/netty-common-4-1-100-final-sources-1-jar/io/netty/util/internal/NativeLibraryLoader.java
* /opt/cola/permits/1852068173_1700657631.0916433/0/netty-common-4-1-100-final-sources-1-jar/io/netty/util/AsciiString.java
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* /opt/cola/permits/1852068173_1700657631.0916433/0/netty-common-4-1-100-final-sources-1-jar/io/netty/util/collection/CharObjectHashMap.java
* /opt/cola/permits/1852068173_1700657631.0916433/0/netty-common-4-1-100-final-sources-1-jar/io/netty/util/collection/CharCollections.java
* /opt/cola/permits/1852068173_1700657631.0916433/0/netty-common-4-1-100-final-sources-1-jar/io/netty/util/collection/ByteObjectMap.java
* /opt/cola/permits/1852068173_1700657631.0916433/0/netty-common-4-1-100-final-sources-1-jar/io/netty/util/collection/IntObjectHashMap.java
* /opt/cola/permits/1852068173_1700657631.0916433/0/netty-common-4-1-100-final-sources-1-jar/io/netty/util/internal/ObjectUtil.java
* /opt/cola/permits/1852068173_1700657631.0916433/0/netty-common-4-1-100-final-sources-1-jar/io/netty/util/collection/IntCollections.java
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* /opt/cola/permits/1852068173_1700657631.0916433/0/netty-common-4-1-100-final-sources-1-jar/io/netty/util/collection/ShortObjectMap.java
* /opt/cola/permits/1852068173_1700657631.0916433/0/netty-common-4-1-100-final-sources-1-jar/io/netty/util/collection/LongCollections.java
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* /opt/cola/permits/1852068173_1700657631.0916433/0/netty-common-4-1-100-final-sources-1-jar/io/netty/util/collection/ByteObjectHashMap.java
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* /opt/cola/permits/1852068173_1700657631.0916433/0/netty-common-4-1-100-final-sources-1-jar/io/netty/util/internal/CleanerJava6.java
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* /opt/cola/permits/1852068173_1700657631.0916433/0/netty-common-4-1-100-final-sources-1-jar/io/netty/util/internal/ResourcesUtil.java
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* /opt/cola/permits/1852068173_1700657631.0916433/0/netty-common-4-1-100-final-sources-1-jar/io/netty/util/internal/MathUtil.java
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* /opt/cola/permits/1852068173_1700657631.0916433/0/netty-common-4-1-100-final-sources-1-jar/io/netty/util/internal/ObjectPool.java
* /opt/cola/permits/1852068173_1700657631.0916433/0/netty-common-4-1-100-final-sources-1-jar/io/netty/util/internal/Hidden.java
* /opt/cola/permits/1852068173_1700657631.0916433/0/netty-common-4-1-100-final-sources-1-jar/io/netty/util/internal/svm/PlatformDependent0Substitution.java
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* /opt/cola/permits/1852068173_1700657631.0916433/0/netty-common-4-1-100-final-sources-1-jar/io/netty/util/internal/ReferenceCountUpdater.java
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* /opt/cola/permits/1852068173_1700657631.0916433/0/netty-common-4-1-100-final-sources-1-jar/io/netty/util/concurrent/ImmediateEventExecutor.java
* /opt/cola/permits/1852068173_1700657631.0916433/0/netty-common-4-1-100-final-sources-1-jar/io/netty/util/concurrent/package-info.java
* /opt/cola/permits/1852068173_1700657631.0916433/0/netty-common-4-1-100-final-sources-1-jar/io/netty/util/concurrent/GenericFutureListener.java
* /opt/cola/permits/1852068173_1700657631.0916433/0/netty-common-4-1-100-final-sources-1-jar/io/netty/util/concurrent/DefaultPromise.java
* /opt/cola/permits/1852068173_1700657631.0916433/0/netty-common-4-1-100-final-sources-1-jar/io/netty/util/internal/EmptyArrays.java
* /opt/cola/permits/1852068173_1700657631.0916433/0/netty-common-4-1-100-final-sources-1-jar/io/netty/util/internal/NoOpTypeParameterMatcher.java
* /opt/cola/permits/1852068173_1700657631.0916433/0/netty-common-4-1-100-final-sources-1-jar/io/netty/util/concurrent/FutureListener.java
* /opt/cola/permits/1852068173_1700657631.0916433/0/netty-common-4-1-100-final-sources-1-jar/io/netty/util/concurrent/DefaultProgressivePromise.java

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/opt/cola/permits/1852068173_1700657631.0916433/0/netty-common-4-1-100-final-sources-1-jar/io/netty/util/Version.java
* /opt/cola/permits/1852068173_1700657631.0916433/0/netty-common-4-1-100-final-sources-1-jar/io/netty/util/ReferenceCountUtil.java
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* /opt/cola/permits/1852068173_1700657631.0916433/0/netty-common-4-1-100-final-sources-1-jar/io/netty/util/internal/ClassInitializerUtil.java

1.3280 go.opentelemetry.io/otel/trace 1.20.0

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1.3281 go.opentelemetry.io/otel/sdk 1.20.0

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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1.3288 github.com/vbatts/tar-split 0.11.5

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1.3289 wheel 0.42.0

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<sebastien@opendns.com> | The following persons, listed in alphabetical order, have participated | Thomas Desrosiers <thomasdesr@gmail.com> | efforts to bring goavro to the open source community: | feedback to goavro during its initial implementation: | kklipsch <junk@klipsch.net> | seborama <sebastien.chatal@sainsburys.co.uk> | with goavro development by contributing code and test cases."
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com.github.jnr jnr-x86asm 1.0.2

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```
---
name: Handle External Contributor PRs

on:
 # run in the context of the base branch, so that it still works in PR from forks
 pull_request_target:
   types: [opened, reopened]

jobs:
 external-contributor-prs:
   name: Handle Fork PRs
   runs-on: ubuntu-latest
   if: github.event.pull_request.head.repo.full_name != github.repository
   steps:
     - name: Checkout repository
       uses: actions/checkout@0ad4b8fadaa221de15dcec353f45205ec38ea70b # v4.1.4
       with:
         ref: main
         fetch-depth: 0
```

```
    - name: Setup python
      uses: actions/setup-python@82c7e631bb3cdc910f68e0081d67478d79c6982d # v5.1.0
      with:
        python-version: 3.11
        cache: 'pip'
        cache-dependency-path: '**/requirements*.txt'
    - name: Install dependencies
      run: pip install -r requirements.txt -r tasks/requirements.txt
    - name: Set label on external contributor PRs
      run: |
        gh issue edit "$NUMBER" --milestone "$MILESTONE"

        inv -e github.handle-community-pr --repo="$GH_REPO" --pr-id="$NUMBER" --labels="$LABELS"
      env:
        GH_TOKEN: ${{ secrets.GITHUB_TOKEN }}
        GITHUB_TOKEN: ${{ secrets.GITHUB_TOKEN }}
        SLACK_API_TOKEN: ${{ secrets.SLACK_DATADOG_AGENT_BOT_TOKEN }}
        GH_REPO: ${{ github.repository }}
        NUMBER: ${{ github.event.number }}
        # labels is a comma-separated list of tags
        LABELS: community,team/triage
        MILESTONE: Triage
```

Component,Origin,License
devenv,github.com/StefanScherer/packer-windows,MIT
devenv,github.com/luciusbono/Packer-Windows10,MIT
1Nnet/bytebuddy/asm/Advice$ArgumentHandler$ForInstrumentedMethod$Default$CopyingFnet/bytebuddy/asm/Advice$ArgumentHandler$ForInstrumentedMethod$DefaultAdvice.java5Lnet/bytebuddy/build/HashCodeAndEqualsPlugin$Enhance;(net/bytebuddy/asm/Advice$ArgumentHandlernet/bytebuddy/asm/Advice
ArgumentHandler>net/bytebuddy/asm/Advice$ArgumentHandler$ForInstrumentedMethodForInstrumentedMethod
Default3net/bytebuddy/build/HashCodeAndEqualsPlugin$Enhance+net/bytebuddy/build/HashCodeAndEqualsPlugi
nEnhance6net/bytebuddy/description/type/TypeDescription$Generic.net/bytebuddy/description/type/TypeDescriptio
nGenericCopying<init>(Lnet/bytebuddy/description/method/MethodDescription;Lnet/bytebuddy/description/type/T
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n/method/MethodDescription;Lnet/bytebuddy/description/type/TypeDefinition;Ljava/util/SortedMap<Ljava/lang/Str
ing;Lnet/bytebuddy/description/type/TypeDefinition;>;Lnet/bytebuddy/description/type/TypeDefinition;)V
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on;
namedTypesXLjava/util/SortedMap<Ljava/lang/String;Lnet/bytebuddy/description/type/TypeDefinition;>;Ljava/util
/SortedMap; enterTypeargument(I)I"#
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tebuddy/implementation/bytecode/StackSize;getSize=1
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asm/MethodVisitorWvisitVarInsn(II)VYZ
X[SINGLE1Lnet/bytebuddy/implementation/bytecode/StackSize;]^ <_ZEROa^ <b

getParameters2()Lnet/bytebuddy/description/method/ParameterList;de/f.net/bytebuddy/description/method/ParameterListhiterator()Ljava/util/Iterator;jkiljava/util/IteratornhasNextpQoqnext()Ljava/lang/Object;stou5net/bytebuddy/description/method/ParameterDescriptionwgetType:()Lnet/bytebuddy/description/type/TypeDescription$Generic;yzx{
asErasure2()Lnet/bytebuddy/description/type/TypeDescription;}~
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1.3291 x-oauth2 0.14.0

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1.3292 go-unsnap-stream 0.0.0-20180323001048-9f0cb55181dd

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1.3293 opentracing-go 1.0.3-0.20180606204148-bd9c31933947

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1.3295 cryptography 41.0.7

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console.[ADDR|comUNIT][,SPEED]wdXYcomUNIT[,SPEED]dualDisplay output on all consoles.cdromUse CD-ROM as root.Invoke user configuration routing.gdbUse GDB remote debugger instead of DDB.muteDisable all boot output.nointrpauseWait for keypress after every line of output.dfltrootUse compiled-in root device.premature end of file %sinvalid arch-independent ELF magicinvalid arch-dependent ELF magicno symbol table_DYNAMICdynamic = %llx
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arch-dependent ELF magicinvalid a.out headerload address below 1Mno NetBSD loaded %-18s%14s%14s%14s
%-18s 0x%08x 0x%08x 0x%08xknetbsd_module_elf%u entries in smap
gfxpayload%s;texttextBooting in blind modecompcmdlen too longnetbsdunknown disk type nameonly device specifications of form <type><number><lowercase letter> are supportedonly com0-com3 are supportedkFreeBSD./boot/zfs/zpool.cacherawno FreeBSD loadedtype=elf64 kernelelf kernelzfsgziokfreebsdLoad kernel of FreeBSD.FILEkopenbsdLoad kernel of OpenBSD.knetbsdLoad kernel of NetBSD.kfreebsd_loadenvLoad FreeBSD env.kfreebsd_moduleLoad FreeBSD kernel module.knetbsd_moduleLoad NetBSD kernel module.Load NetBSD kernel module (ELF).kfreebsd_module_elfLoad FreeBSD kernel module (ELF).kopenbsd_ramdiskLoad kOpenBSD ramdisk.wdfdsdcdvndrdno-smpDisable SMP.no-acpiDisable ACPI.asknameAsk for file name to reboot from.haltDon't reboot, just halt.configChange configured devices.kdbEnter in KDB on boot.minirootquietDon't
display boot diagnostic messages.singleBoot into single mode.verboseBoot with verbose messages.debugBoot with debug messages.silentSuppress normal output (warnings remain).rootSet root device.DEVICEserialUse serial console.[ADDR|comUNIT][,SPEED]wdXYcomUNIT[,SPEED]dualDisplay output on all consoles.cdromUse CD-ROM as root.Invoke user configuration routing.gdbUse GDB remote debugger instead of DDB.muteDisable all boot output.nointrpauseWait for keypress after every line of output.dfltrootUse compiled-in root device.premature end of file %sinvalid arch-independent ELF magicinvalid arch-dependent ELF magicno symbol table_DYNAMICdynamic

= %llx
bsdloader/i386/bsd32.cloading section to %x, size %d, align %d
elf modulerd_root_imagerd_root_sizeunexpected size of rd_root_sizepremature end of file %sinvalid arch-independent ELF magicinvalid arch-dependent ELF magicloading section to %x, size %d, align %d
bsdloader/i386/bsd64.celf obj moduleno symbol table_DYNAMICdynamic = %llx
rd_root_imagerd_root_sizeunexpected
 size of
rd_root_sizeLICENSE=GPLv3+aoutbootcpuidcryptoelfextcmdgcry_md5mmaprelocatorserialvbevideobsd%=&f)9E
Xcp~+*IWkz;Jas0H/CWS3fy/ &6BXhwz(s5Z-l
5/<Q_r
&9N^kx
:grub_mod_initgrub_mod_finigrub_strlengrub_netbsd_load_elf_meta64grub_aout_get_typegrub_puts_grub_strncmpgrub_strtoullgrub_env_update_get_sortedgrub_strcpygrub_elf_is_elf32grub_loader_is_loadedgrub_strrchrgrub_ns8250_hw_get_portgrub_dl_loadgrub_elf32_load_phdrsgrub_relocator32_bootgrub_freebsd_load_elfmodule32grub_elf_filegrub_bios_interruptgrub_xasprintfget_virtual_current_addressgrub_video_set_mode_gcry_digest_spec_md5grub_memmovegrub_device_opengrub_relocator_alloc_chunk_aligngrub_elf64_get_shnumgrub_vbe_bios_getset_dac_palette_widthgrub_disk_readgrub_unregister_extcmdgrub_loader_unsetgrub_dl_refgrub_mmap_iterategrub_file_seekgrub_relocator_unloadgrub_errnogrub_memsetgrub_openbsd_find_ramdisk32grub_register_command_priogrub_elf_is_elf64grub_video_get_driver_idgrub_mmap_get_lowergrub_mmap_get_uppergrub_freebsd_load_elfmodule_obj64grub_printfgrub_unregister_commandgrub_file_readgrub_freebsd_add_meta_modulegrub_get_root_biosnumbergrub_elf_closegrub_print_errorgrub_zallocgrub_strcmpgrub_strchrgrub_elf64_loadgrub_mallocgrub_relocator64_bootgrub_file_closegrub_file_opengrub_real_dprintfgrub_freebsd_load_elf_meta32grub_callocgrub_freebsd_load_elf_meta64grub_vbe_bios_get_controller_infogrub_netbsd_load_elf_meta32grub_device_closegrub_elf64_load_phdrsgrub_openbsd_find_ramdisk64grub_fs_probegrub_relocator_newgrub_crypto_hashgrub_errorgrub_video_get_info_and_finigrub_cpuid_has_longmodegrub_freegrub_dl_unrefgrub_register_extcmdgrub_env_setgrub_gettextgrub_memcmpgrub_loader_setgrub_verify_stringgrub_elf32_get_shnumgrub_elf32_loadgrub_env_getgrub_strtoulgrub_bsd_add_metagrub_aout_loadget_physical_target_addressgrub_elf32_get_phnumgrub_relocator_alloc_chunk_addr=),2T9?TFLTSYTej2p2PQ("+6@JR\j@}?M4?)M)*!,4>EMU_x@?)1?
M'.MF@g=|4;;S%P,P?PJ?O)in%s$*M@K?!(17)`Y%+1-?IOSduzH5 C I )X ^ c h r w A}  ` < I M
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)=);\EPTZ`).=G^M]z0/(@9?JOY^F|***
MRUr[w[)[)*\ M"*W\Lu*::3\>GEJOVT)s[
?*V[Ur[M[)*\"<AFVLQ)\`/=_0/:*MU
gnU\1<A`W^lq
U:BH_p*7^q*).>af|^
  ! H T [:d k z \   \ \ \ )!\&!\J!p!)!!!W!!!!! ""M4"@Y"a"f"`y""4")""""U""5"##?#).#:#D#Z#l#r#######5#@####D$
$B*$\A$\X$\f$6s$z$$G$$$$$J$%:'%,%2%:%P?%8_%f%k%p%Vu%)%%%%%%%R%%%%%%R%%%%%
%%R%&
&&&,&#&*&/&4&,9&@&G&L&Q&,V&]&d&i&n&,s&z&&&&,&&&&&,&&&&#&&#&&#&&3&&3&&3"3'
'3"3:"C')Q'4_')j'q'M"'4"'X(C('(()?(4S()^(e(M(X(\ )r)`))')4))))M *'*)**4A*F*:d*i*s*x*A*\*\*\*P:+XU+_+`+,,',,,A,*b-
l-5y-P-B-P-)-
X(.P.`../P/'c/4|/'/)/4/)//M/\/PQ0X0P0=0'040=1'1P1P1)014?1PG1PM1)\111:11:1P1P11M92PA2Pq2'24222
2C2'3)34,3)73>3M3 4`544444A4'4)444)55M(5*a5k555\5\5P6 '6\T67`.77'747)77M7'
8)%84a8f8:8888A8\8\8\8PV9P\9)l9 9P:`':Y::P;'i;4;';);4;);;M;\;Ps< <P<=='=4-==I='W=P_=Pe=){=4=P=P=)===:
>>:>>PF>PM>T>M>P>P8D$0<HT`lx ,8DP\ht
,8DP\ht(4@LXd.symtab.strtab.shstrtab.rel.text.rel.rodata.rodata.str1.1.data.module_license.bss.moddeps.modname4
> @D[H)?
 % @t12C]
@MFMVM[MKdCNHN XTwm
ELF>@@
Hy$HHq,uHDDL@P4Et2;P u-
HPHHHH9uHHPMtCIxHp2MHP$tIHLHHHAHxHDH:HHHwxHPHHvhHH@$LHL@$HP,P
P4H)HPHPHt#HzLHHLHPLL111DEtH<tD
HUHAUIATASI|$APHu1L`HH@HpXIEH8uCHu1Ht,xHtHHHH9u6HH'HHHtH
HHH
1Z[A\A]]HUHAUATSHHHHEHIHILLLEHH1IAHHIHtJCt2ww4HHs1AuHssL1AHH[A\A]]HUHATSH8HHt
L'LH111HHHHH0HH8HH;H11H;[A\]tH1HFHUHAVAUIATSHu&HHA[[[A\A]A^]HH8uII<$uH1I}HHHLw@M
94$s=HI$LAYHAZ1[A\A]IA^]AHH}H0LHHL9tDHH}H;u!IU1HH=I$1H)HH<HH1ZY[A\A]A^]HUHAVIAUAT
SHt9HH8uH8u%H1H[A\A]A^]uHI>HIHtIHx@uHAHNHH8LHLI8tH
HLA[A\A]A^]HUHAWAVAUATASHHHt H8t+H1HH[A\A]A^A_]Eu'H1H1E1NH;
HIHtLh@1M#HA}HcHHMcHLHLL9II
LAIH@Mt+I9s@ t
uH8"uH@IA?#t}=LAHtmA?tdHHx"HMtHHEHL1HHHt9HuHEHH}HtMtM.HHMtHLH[A\A]A^A_]HUHAWAV
IAUATASHHhI>H1HHEu"H1H<H; HIHHIIEHuHLHH3LIHHHHxHE1LIHLI$^AG
LH%HHMOHI$E1H31LHtMAW4HLH9s<Iw'PAI9rI@PH9sHAH
LEtH3@tI$H8I$HHuHI}H)HH}HE1E1HxHI+$LHHRH8?HI$IHHxI?HLHHH8HIW 8uH
H1%HHLHHMOHI$E1H31LHtCAG@Hk8LH9s2w#HB%H9sH@HB(H9sHAH8EtH3@tI$H8I1LHHM$HIAI$H
HuHI}H)HH}HE1E1HxHI+$LHHuUH8uFHI$IHHxI?H1HHLE1E11LDHDHH@HuLHH@t<H8gHx1HH>HH}tH

EU%f}HtA
%1AH=w"H1HMUHHHHtHHUE1H;Lxt"HtHHHH)HxHHI}HuH)Hu<HH}MLxDHHMLHHLHHHH%HH;tHI>H
h[A\A]A^A_]1tH9uHUHAWAVAUAATISHH(Ht9HH8uH8u+H1HH([A\A]A^A_]EHHHHEHIHILLLEHH1IAH
HIHtK`SXHsLDC\1AH1HI|$HI
AHHEHHHH@HH@H$IHuHH8HI$HH}HS@HHHA}HC@M<$/H}HEHHtHHEHhIHu
A}usWHxOHuH1EEx`HA@XEA@\HHtL
LHLI$HC@HH%I$HHAEH([A\A]A^A_]U1HAUIATHuSHHEHAutH}LHHD[A\A]]U1HAWIAVH}HuAUIATS
HXHAHc]AEHHkuH uHHMHIMHIA}HuHP1H}HUHuHUHAA}DEHUu
DEH|1HDE1HHHIAAMLH t1tLHAHX[A\A]A^A_]HUHAWAVAUATSHHI1IHt!HrtHL1H
HL1HHH0HuIHI<$THH}ILh$IMIHt?CHSI~HsH}ABAFAH}H{HHL)AFI11HI1AFHE111H11HM)HEAIGAGA
GHH
AGHH0Ew H
AG HHuAGI$H]H1HH0He[A\A]A^A_]HUHAWAVAUATSHHPHHHHtY8tTH1HIM
L11HLAHH11HAEHHHH}HHEE10HPDXH\EfEfdHHHPEgEjEhEkEiElHt0HHH1H8IE1IHtHAHDHk\HIHuHb
D HAEIHtHpHHk\I|Ak\LHLHRHH(IE1E1IHt$HJtNd!I Nd!IHAHHuII>H8IcH8ILHHH}M?N
HE(IIMt]LH(IH)8IwL0ADAGIWAEBAELAMoM?H(L0j
HujAI>AHY^HH}H}IHE111I11HHD}1D}EAEAUAE1AE8AHEeH
AEHH0 HuH
HAEH1I>H0He[A\A]A^A_]HUAHHAWAVAUATISHHHHHDH(HH;8u"H;/HLhHupL+kH HHHH8HHH8tH
Hx1PHHLHOIIAHP1AID$t;1HID$HHAHAID$1HIILHA1IA%ID$HHHLHIHu!H1HHAA1HAIA
H?,u>H1HHAAtHHAIHAI~
@v"H&1HNH1HHH0H8HLg(MHGAHtxuDo IT$(E1HHt
LxH@(ID$LHW(1H8H@HHH841Lg(H\D\L1HPH@(Hu@LH`HHIDI@ID$HxHh@HpHHHA4H\
A 1HID$0Ht}HHxHu>@HHfXfA+I|$(uHID$0HxtA$D
HAHHHH1HHH[A\A]A^A_]HUHAWIAVAUATISH8HuHHHUPA$JHGXH=HEE1IKHtxIHAH}HHHIuDHAH
E
HuHEHHHUr@v(HIIrHza D IG1H}x`HIGHxhHH}HHt&H1H-
1HE1HuIHxH}AAwH}%?,u0H1HuH}AH%E1DEDHUHuEHA$ 2HuEHEA$$Hu}Hu-
H1HHH8[A\A]A^A_]UT1HHAWAVH|AUIATS1HET|EHIMtQI<$ LHu.I<$ t$IH
AI|$IAJ\3HMd$0HtHHHH)H8HH111HH1Ht!HqtHT2H HT2HH
HHHHH)IA?tH0IHHH8IUH8HQH8HMuIHLI]L(HHH; HHH3~ H
H(IAH(HH(IHHHvH(H(=HsAH(HH(HDH(H[07LL9(tH(HXDuH8HLHIMAPIpHHpttu+UAA?tHpTA?IUtHPDP?I
@L HHH(HHL H(IIHH)A?t
HHHHMH9L)L)D]IHL)LIE11HEHA?I1H8AA`jI?j H0H^_H0HH0IHE111H(11HPH01HHL)LLL H H 1IIL$LH
HH=uH(HpH@HH8H8HHHH H H`AE@AGIEAGH1H8HH@X1 AH8AxH0j
I?HjZYH0HH0IHE111H11HI|$$TH|H8 H<H8PA$
ADADHH1HIT$$H0A\$HADEADIEAD$
H1I?H0He[A\A]A^A_]HUHAWAVIAUAATSHH8Hu/LEDMHtHXIH}HILIDIHAHPAEH8tQHEH}HEEHEAHu
PAHuAHu8H}AHuPAusHuAu^HuAuIE1E1A9~I<HAEdEDHuHtZHE1HEIIA9~ I4LAI<HAL
L`A$H}HtEEH8[A\A]A^A_]HUHAWAVAUAATISH8Ht9HH8uH8u+H1HH8[A\A]A^A_]EuH1GI<$HIHHHH@
HIHuHH8HIHH}HS@HHHA?DIL$IEtILUI|$HHHMHMLUuIDILLPAEEDK@MLHUI<$uIHC@HH%IHHAH
8[A\A]A^A_]HUHAWAVAHAUIATSHHHLDHIHILHI8M 31I}AVHLHHMIMEAAHHEE)H%
I}HHH;IULHH8Hu
HHuIADHuADHuA|H1IAHHtMHHt+H@(Ht"HP(D
HtED"AAAAAHAAH1;H1AIHHHHHtiHx@tbHHxHuDHuLS@u6H}Ht-
1HH}HHAAHA1HC,HHH[A\A]A^A_]UHAUIATIHSHPHL1IIHHL1IIHHHL1IIHHHE11HHHHHE11IHHHHLE
11HHHLE11HHHE11HHHH1E1HHHHHHLHZ[A\A]]UHSHPHH8HH8HH8HHH8HH8HH8HH8HH8HH8Z[H]H
UHAVIAUIHSLHH}H}HtNHHLH9t5u*HLHH[A]A^]1H[A]A^]UHAWIAVAUIATISH(Hu1H}AHH}4LIAH4tC

H?HUH(1H[A\HA]A^A_]A<$ELFuA|$uA|$tHA|$t+HH(1H[A\A]A^A_]HuLHAt$.}HIEHtAt$
H}AHuH]AT$.IuUH}AAL$.HEHH9t3Hu#HU1HHH([A\A]A^A_]U1HAWAVAUIHMATSHHHhHhHXHUHXH
EHHtH}HLe4HuHULtLH9sxt'HH1HMPHHuHDpPHIAD`LAD$dADAEIHD`HADHH}DxPHCD<HhI|D3AHt`
DHHhIHPHAHPH9upHdLHPHhAHPHu*DdHBHhHPHLAL9uD`E1dHXHHHP;MHHHt
LE9rXDC1HHHIDEAHuHu4HxHuH|hH}Hhu|I]H[A\A]A^A_]HUHAWAVMAUIHMATSHDM
HUH`1HHH`HuIuYHxH}H8HEH|H}HPH}xHPHHH1H9sDAEtAtDAL9IBH4I}IH9HB|HHuHHHHLHHsHH}Lh
LPHXExHPHI9EOEAGPAG
HDhHHIP1AAZEGAWYt8HXLI+HAOH`HIuHt)HXLI+>1HLHHAGAWHLH9hHChHhEIHXLI+1IuA4H`IHAH
hM\$4MHXDxII9H`LBELI+LhHLIuALhMIDxHXDD|H`D)EELELMLI+LhHIuADI}MLhIMD|HDD)EELHMME
)HH}u#IUH`LHHHHe[A\A]A^A_]HUHAWAVAUIHxATSHHH@1HhH@HxHhHUt!HHxHtH}HLxu(UMtHI<I9
sAt%IhLHhAWAGHu8IHP@X8\X\HHD4HHIEHHHHH`HHHH}IH4HuH`EHH4EEA1fCLC
H"HCUtLH9saH0HHAH0I9uEt4#HP1H9uEt\D4CCEHHAwHhIAHtI8HHhIH8AH8H9uGHPHhpAHunDX\HhH4
LAL9t1u>H@HHHuHhLHhu!HHH`HHIUH[A\A]A^A_]U1HAWAVAUATSHHHHUH@HMHEHHpH`LXtH}A
H}HuHH}u#UHuHH9sxtHHHPIIDpTH$HPH@<8ATHhHAHxHDHpIAHtUHhHxIHpAHhH9tHx8HhHAIHu
Hx"<HpAHu!HxALAHHhHpLAHhH9tYHxALAHH`H1H[A\HA]A^A_]LxE11xD)T9sAFufA>t_LHpHIAHpA>H
IDLHpAHpMDHtMu.PIlHtMuHxIIAt>HxALAH1H[A\HA]A^A_]JHXHxHBHHH@%H)HXHHHHBAGH@%H)
HXHHAALAH[A\A]A^A_]UHAWIAVAUIATISH(Hu1H}AHH}@LIAH@tCH?HUH(1H[A\HA]A^A_]A<$ELF
uA|$uA|$tHA|$t+HH(1H[A\A]A^A_]HuLHAt$:H}HIEHtIt$(H}AHuH\AT$:IuHUH}AHAD$:HEH9t3Hu#HU1HH
H([A\A]A^A_]HUHAWAVAUIHxATI1SH<IHUHhIuHxHhL`HuH}H}HuHLxHHHLLH9s%L@
MtHP0HtHL
HH!LHH`HHH)H%HuHLHH}IMHH@EHELI9SMN M:IF0HtJT III!MfEHRHHIP1AH@LH)HA~HPIF
Y^HXIEIvHhHHHHt`HXHPHHhHXH9tXHHHHt!HX1HPHMf
EI<EIMIH`A)I$HH%HI}Hu0@HuHuULU
hHxHhHe[A\A]A^A_]U1HAWAVAUATSHHHXHXHPHUHPH8HhHhHAHpH}HALh@HuHAuHpLHHLH9sxt'
HH1HmP(HHHuHLh H0HH8IIDMt HHH(CD5HH@H8H@HH
HHHIHAH}EHLx0HH@HXLIHEL+AHtOHLHXHHL9umHE(HXL2H@AH@HuHD89LbLHXHLL9uIdHD8EH
P1HHH;LLt"HHAHHHDHL9r[LC1HHHILEAHuHAu7HxHAuHuAHhHEuHEH8HH%HHD[A\A]A^A_]HUHA
WAVAUI1ATSHHHhHhH@HUH@HpHpt!HHpHxH}HLpu*uHxMHHI<I9sAt%IhLHhAW(IG HuH8IHPH@
H08\0\HHD@HHIEHHHHH`HHHH}IH@HuH`EHH@EEAfC11HCLSHC@UHxHLH9seH(HHAH(UI9uHxHH
@$HP1H9uHx\HHD@HCHHCHIwHhIAHtJ8HHhIH8AH8H9uHHPHhHpAHunD0\HhH4LAL9t1u>H@HHHuHh
LHhu!HHH`HHIUH[A\A]A^A_]U1HAWAVAUATSHHHHUH@HMHEHHpHhL`t
H}ADH}HuHH}Au%uHMHHHHH9sztHH%HZ B(ILrHXHZ8HHPHXH@
H8HH0ADXLHxHHpDHHtCHxLHpIAL9tHxD0LHHu
Hx+8HpHHu"HxAHAHD8HpLHAL9uDX1E1E1DPLxsHxAHAHD8EHhH1H[A\HA]A^A_]AD$tPDID9rA<$tX
HHHDhDpA<$HHMDHDpDhXMDMoMf
MtMuHxIII}t>HxAHAH1H[A\HA]A^A_]IFH`H@HxHIFHH%H)H`HHHHAIEH@%H)H`HHBAHAHD[A\A]A^
A_] @12abcdmqsvxzrh@abcsdrh @ DhaCcdgmnpqrsvsizeaddrtypename %-18s %-18s%14s%14s
%-18s 0x%08x 0x%08x
filename expectedyou need to
load the kernel firstno kOpenBSD loadedyour kOpenBSD doesn't support ramdiskyour kOpenBSD supports ramdisk only up to %lu bytes, however you supplied a %lu bytes onepremature end of file %sonly FreeBSD supports moduleonly ELF kernel supports moduleonly FreeBSD supports environmentkFreeBSD.%syour CPU does not implement AMD64 architecturekern_start = %lx, kern_end = %lx
bsdloader/i386/bsd.cinvalid arch-dependent ELF magicinvalid a.out headerload address below 1Mno NetBSD loaded %-18s%14s%14s%14s
%-18s 0x%08x 0x%08x 0x%08xknetbsd_module_elf%u entries in smap
textgfxpayload%s;800x600800x600Booting in blind modecompcmdlen too longnetbsdunknown disk type nameonly device specifications of form <type><number><lowercase letter> are supportedonly com0-com3 are

supportedkFreeBSD./boot/zfs/zpool.cacherawno FreeBSD loadedtype=elf64 kernelelf kernelzfsgzioLoad kernel of FreeBSD.FILEkfreebsdLoad kernel of OpenBSD.kopenbsdLoad kernel of NetBSD.knetbsdLoad FreeBSD env.kfreebsd_loadenvLoad FreeBSD
kernel module.kfreebsd_moduleLoad NetBSD kernel module.knetbsd_moduleLoad NetBSD kernel module (ELF).Load FreeBSD kernel module (ELF).kfreebsd_module_elfLoad kOpenBSD ramdisk.kopenbsd_ramdiskwdfdsdcdvndrdno-smpDisable SMP.no-acpiDisable ACPI.asknameAsk for file name to reboot from.haltDon't reboot, just halt.configChange configured devices.kdbEnter in KDB on boot.minirootquietDon't display boot diagnostic messages.singleBoot into single mode.verboseBoot with verbose messages.debugBoot with debug messages.silentSuppress normal output (warnings remain).rootSet root device.DEVICEserialUse serial console.[ADDR|comUNIT][,SPEED]wdXYcomUNIT[,SPEED]dualDisplay output on all consoles.cdromUse CD-ROM as root.Invoke user configuration routing.gdbUse GDB remote debugger instead of DDB.muteDisable all boot output.nointrpauseWait for keypress after every line of output.dfltrootUse compiled-in root device.premature end of file %sinvalid arch-independent ELF magicinvalid arch-dependent ELF magicno symbol
table_DYNAMICdynamic = %llx
bsdloader/i386/bsd32.cloading section to %x, size %d, align %d
elf modulerd_root_imagerd_root_sizeunexpected size of rd_root_sizepremature end of file %sinvalid arch-independent ELF magicinvalid arch-dependent ELF magicloading section to %x, size %d, align %d
bsdloader/i386/bsd64.celf obj moduleno symbol table_DYNAMICdynamic = %llx
rd_root_imagerd_root_sizeunexpected size of
rd_root_sizeLICENSE=GPLv3+aoutbootcpuidcryptoelfextcmdgcry_md5mmaprelocatorserialvideobsd2*4)NEcv&3
I_:}4CZlx%B(<PG:r~*"8HWi(7|J>*R0ALi)6VHWsgrub_mod_initgrub_mod_finigrub_strlengrub_netbsd_load_elf
_meta64grub_efi_finish_boot_servicesgrub_aout_get_typegrub_puts_grub_strncmpgrub_strtoullgrub_efi_system_ta
blegrub_env_update_get_sortedgrub_strcpygrub_elf_is_elf32grub_loader_is_loadedgrub_strrchrgrub_ns8250_hw_g
et_portgrub_dl_loadgrub_elf32_load_phdrsgrub_relocator32_bootgrub_freebsd_load_elfmodule32grub_elf_filegrub
_xasprintfget_virtual_current_addressgrub_video_set_mode_gcry_digest_spec_md5grub_memmovegrub_device_o
pengrub_relocator_alloc_chunk_aligngrub_elf64_get_shnumgrub_disk_readgrub_unregister_extcmdgrub_loader_u
nsetgrub_dl_refgrub_mmap_iterategrub_file_seekgrub_relocator_unloadgrub_errnogrub_memsetgrub_openbsd_fin
d_ramdisk32grub_register_command_priogrub_elf_is_elf64grub_video_get_driver_idgrub_mmap_get_lowergrub_
mmap_get_uppergrub_freebsd_load_elfmodule_obj64grub_printfgrub_unregister_commandgrub_file_readgrub_fre
ebsd_add_meta_modulegrub_elf_closegrub_print_errorgrub_zallocgrub_strcmpgrub_strchrgrub_elf64_loadgrub_m
allocgrub_relocator64_bootgrub_file_closegrub_file_opengrub_real_dprintfgrub_freebsd_load_elf_meta32grub_call
ocgrub_freebsd_load_elf_meta64grub_netbsd_load_elf_meta32grub_device_closegrub_elf64_load_phdrsgrub_open
bsd_find_ramdisk64grub_fs_probegrub_relocator_newgrub_crypto_hashgrub_errorgrub_video_get_info_and_finigr
ub_cpuid_has_longmodegrub_freegrub_dl_unrefgrub_register_extcmdgrub_env_setgrub_gettextgrub_memcmpgrub
_loader_setgrub_verify_stringgrub_elf32_get_shnumgrub_elf32_loadgrub_env_getgrub_strtoulgrub_bsd_add_meta
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FMdl.symtab.strtab.shstrtab.rela.text.rela.rodata.rodata.str1.1.data.module_license.bss.moddeps.modname
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1.3297 x-time-rate 0.5.0

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1.3298 x-sys 0.15.0

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1.3299 btree 1.0.0

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1.3300 go-humanize 1.0.1

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1.3301 go-toml 1.9.5

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localtime.go, localtime_test.go:

Originals:
https://raw.githubusercontent.com/googleapis/google-cloud-go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil.go

https://raw.githubusercontent.com/googleapis/google-cloud-go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil_test.go
Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.
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1.3302 gax-go 2.12.0

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1.3303 backoff 4.2.1

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1.3304 go-runewidth 0.0.15

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* /opt/cola/permits/1861186902_1701800753.36181/0/netty-handler-4-1-100-final-sources-1-jar/io/netty/handler/ssl/PemEncoded.java
* /opt/cola/permits/1861186902_1701800753.36181/0/netty-handler-4-1-100-final-sources-1-jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java
* /opt/cola/permits/1861186902_1701800753.36181/0/netty-handler-4-1-100-final-sources-1-jar/io/netty/handler/flush/package-info.java
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* /opt/cola/permits/1861186902_1701800753.36181/0/netty-handler-4-1-100-final-sources-1-jar/io/netty/handler/ssl/PemX509Certificate.java
* /opt/cola/permits/1861186902_1701800753.36181/0/netty-handler-4-1-100-final-sources-1-jar/io/netty/handler/ssl/OpenSslCertificateException.java
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* /opt/cola/permits/1861186902_1701800753.36181/0/netty-handler-4-1-100-final-sources-1-jar/io/netty/handler/ssl/Java8SslUtils.java
* /opt/cola/permits/1861186902_1701800753.36181/0/netty-handler-4-1-100-final-sources-1-jar/io/netty/handler/ssl/DelegatingSslContext.java
* /opt/cola/permits/1861186902_1701800753.36181/0/netty-handler-4-1-100-final-sources-1-jar/io/netty/handler/ssl/PemPrivateKey.java
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* /opt/cola/permits/1861186902_1701800753.36181/0/netty-handler-4-1-100-final-sources-1-jar/io/netty/handler/ssl/SslHandler.java
* /opt/cola/permits/1861186902_1701800753.36181/0/netty-handler-4-1-100-final-sources-1-jar/io/netty/handler/stream/ChunkedNioFile.java
* /opt/cola/permits/1861186902_1701800753.36181/0/netty-handler-4-1-100-final-sources-1-jar/io/netty/handler/logging/LoggingHandler.java
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* /opt/cola/permits/1861186902_1701800753.36181/0/netty-handler-4-1-100-final-sources-1-jar/io/netty/handler/ssl/BouncyCastleAlpnSslEngine.java
* /opt/cola/permits/1861186902_1701800753.36181/0/netty-handler-4-1-100-final-sources-1-jar/io/netty/handler/ssl/OpenSslClientSessionCache.java
* /opt/cola/permits/1861186902_1701800753.36181/0/netty-handler-4-1-100-final-sources-1-jar/io/netty/handler/ssl/SslContextOption.java
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* /opt/cola/permits/1861186902_1701800753.36181/0/netty-handler-4-1-100-final-sources-1-jar/io/netty/handler/ssl/OpenSslContextOption.java
* /opt/cola/permits/1861186902_1701800753.36181/0/netty-handler-4-1-100-final-sources-1-jar/io/netty/handler/ssl/OpenSslSessionCache.java
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* /opt/cola/permits/1861186902_1701800753.36181/0/netty-handler-4-1-100-final-sources-1-jar/io/netty/handler/ssl/Conscrypt.java
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* /opt/cola/permits/1861186902_1701800753.36181/0/netty-handler-4-1-100-final-sources-1-jar/io/netty/handler/pcap/EthernetPacket.java
* /opt/cola/permits/1861186902_1701800753.36181/0/netty-handler-4-1-100-final-sources-1-jar/io/netty/handler/pcap/TCPPacket.java

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/opt/cola/permits/1861186902_1701800753.36181/0/netty-handler-4-1-100-final-sources-1-jar/io/netty/handler/pcap/PcapHeaders.java
* /opt/cola/permits/1861186902_1701800753.36181/0/netty-handler-4-1-100-final-sources-1-jar/io/netty/handler/pcap/IPPacket.java
* /opt/cola/permits/1861186902_1701800753.36181/0/netty-handler-4-1-100-final-sources-1-jar/io/netty/handler/pcap/PcapWriteHandler.java
* /opt/cola/permits/1861186902_1701800753.36181/0/netty-handler-4-1-100-final-sources-1-jar/io/netty/handler/pcap/package-info.java
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* /opt/cola/permits/1861186902_1701800753.36181/0/netty-handler-4-1-100-final-sources-1-jar/io/netty/handler/ssl/ExtendedOpenSslSession.java
* /opt/cola/permits/1861186902_1701800753.36181/0/netty-handler-4-1-100-final-sources-1-jar/io/netty/handler/ssl/OpenSslSession.java
*
/opt/cola/permits/1861186902_1701800753.36181/0/netty-handler-4-1-100-final-sources-1-jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java
* /opt/cola/permits/1861186902_1701800753.36181/0/netty-handler-4-1-100-final-sources-1-jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
* /opt/cola/permits/1861186902_1701800753.36181/0/netty-handler-4-1-100-final-sources-1-jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java
* /opt/cola/permits/1861186902_1701800753.36181/0/netty-handler-4-1-100-final-sources-1-jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
* /opt/cola/permits/1861186902_1701800753.36181/0/netty-handler-4-1-100-final-sources-1-jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java
* /opt/cola/permits/1861186902_1701800753.36181/0/netty-handler-4-1-100-final-sources-1-jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
* /opt/cola/permits/1861186902_1701800753.36181/0/netty-handler-4-1-100-final-sources-1-

jar/io/netty/handler/ssl/OpenSslPrivateKey.java
*
/opt/cola/permits/1861186902_1701800753.36181/0/netty-handler-4-1-100-final-sources-1-jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java
* /opt/cola/permits/1861186902_1701800753.36181/0/netty-handler-4-1-100-final-sources-1-jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java

1.3318 netty-transport-native-unix-common 4.1.100.Final

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* /opt/cola/permits/1861186927_1701800870.730528/0/netty-transport-native-unix-common-4-1-100-final-sources-1-jar/netty_unix_limits.h
* /opt/cola/permits/1861186927_1701800870.730528/0/netty-transport-native-unix-common-4-1-100-final-sources-1-jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java
* /opt/cola/permits/1861186927_1701800870.730528/0/netty-transport-native-unix-common-4-1-100-final-sources-1-jar/io/netty/channel/unix/LimitsStaticallyReferencedJniMethods.java
* /opt/cola/permits/1861186927_1701800870.730528/0/netty-transport-native-unix-common-4-1-100-final-sources-1-jar/io/netty/channel/unix/PeerCredentials.java
* /opt/cola/permits/1861186927_1701800870.730528/0/netty-transport-native-unix-common-4-1-100-final-sources-1-jar/io/netty/channel/unix/Limits.java
* /opt/cola/permits/1861186927_1701800870.730528/0/netty-transport-native-unix-common-4-1-100-final-sources-1-jar/netty_unix_limits.c
* /opt/cola/permits/1861186927_1701800870.730528/0/netty-transport-native-unix-common-4-1-100-final-sources-1-jar/netty_unix_util.h
* /opt/cola/permits/1861186927_1701800870.730528/0/netty-transport-native-unix-common-4-1-100-final-sources-1-jar/io/netty/channel/unix/SocketWritableByteChannel.java
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* /opt/cola/permits/1861186927_1701800870.730528/0/netty-transport-native-unix-common-4-1-100-final-sources-1-jar/netty_unix_jni.h

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* /opt/cola/permits/1861186927_1701800870.730528/0/netty-transport-native-unix-common-4-1-100-final-sources-1-jar/io/netty/channel/unix/GenericUnixChannelOption.java
* /opt/cola/permits/1861186927_1701800870.730528/0/netty-transport-native-unix-common-4-1-100-final-sources-1-jar/io/netty/channel/unix/RawUnixChannelOption.java

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* /opt/cola/permits/1861186927_1701800870.730528/0/netty-transport-native-unix-common-4-1-100-final-sources-

1-jar/io/netty/channel/unix/Unix.java
*
/opt/cola/permits/1861186927_1701800870.730528/0/netty-transport-native-unix-common-4-1-100-final-sources-1-jar/io/netty/channel/unix/UnixChannelOption.java
* /opt/cola/permits/1861186927_1701800870.730528/0/netty-transport-native-unix-common-4-1-100-final-sources-1-jar/io/netty/channel/unix/package-info.java
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* /opt/cola/permits/1861186927_1701800870.730528/0/netty-transport-native-unix-common-4-1-100-final-sources-1-jar/io/netty/channel/unix/SegmentedDatagramPacket.java
*
/opt/cola/permits/1861186927_1701800870.730528/0/netty-transport-native-unix-common-4-1-100-final-sources-1-jar/io/netty/channel/unix/DomainDatagramPacket.java
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* /opt/cola/permits/1861186927_1701800870.730528/0/netty-transport-native-unix-common-4-1-100-final-sources-1-jar/netty_unix_socket.c
* /opt/cola/permits/1861186927_1701800870.730528/0/netty-transport-native-unix-common-4-1-100-final-sources-1-jar/io/netty/channel/unix/ServerDomainSocketChannel.java
* /opt/cola/permits/1861186927_1701800870.730528/0/netty-transport-native-unix-common-4-1-100-final-sources-1-jar/io/netty/channel/unix/FileDescriptor.java
* /opt/cola/permits/1861186927_1701800870.730528/0/netty-transport-native-unix-common-4-1-100-final-sources-1-jar/io/netty/channel/unix/DomainSocketReadMode.java
* /opt/cola/permits/1861186927_1701800870.730528/0/netty-transport-native-unix-common-4-1-100-final-sources-1-jar/io/netty/channel/unix/DatagramSocketAddress.java
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* /opt/cola/permits/1861186927_1701800870.730528/0/netty-transport-native-unix-common-4-1-100-final-sources-1-jar/netty_unix_errors.c
* /opt/cola/permits/1861186927_1701800870.730528/0/netty-transport-native-unix-common-4-1-100-final-sources-1-jar/io/netty/channel/unix/NativeInetAddress.java
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* /opt/cola/permits/1861186927_1701800870.730528/0/netty-transport-native-unix-common-4-1-100-final-sources-1-jar/netty_unix.c
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* /opt/cola/permits/1861186927_1701800870.730528/0/netty-transport-native-unix-common-4-1-100-final-sources-1-jar/io/netty/channel/unix/Buffer.java
* /opt/cola/permits/1861186927_1701800870.730528/0/netty-transport-native-unix-common-4-1-100-final-sources-1-jar/io/netty/channel/unix/PreferredDirectByteBufAllocator.java

1.3319 jackson-jr-annotation-support 2.14.2

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1.3320 jackson-jr-objects 2.14.2

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Jackson JSON processor

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

Licensing

Jackson core and extension components may licensed under different licenses.
To find the details that apply to this artifact see the accompanying LICENSE file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).

Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

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1.3321 jsqlparser 4.6

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* /opt/cola/permits/1861305134_1701803197.7620525/0/jsqlparser-4-6-sources-1-jar/net/sf/jsqlparser/expression/RowGetExpression.java
* /opt/cola/permits/1861305134_1701803197.7620525/0/jsqlparser-4-6-sources-1-jar/net/sf/jsqlparser/statement/alter/AlterSystemStatement.java
* /opt/cola/permits/1861305134_1701803197.7620525/0/jsqlparser-4-6-sources-1-jar/net/sf/jsqlparser/statement/UnsupportedStatement.java
* /opt/cola/permits/1861305134_1701803197.7620525/0/jsqlparser-4-6-sources-1-jar/net/sf/jsqlparser/util/validation/validator/ResetStatementValidator.java
* /opt/cola/permits/1861305134_1701803197.7620525/0/jsqlparser-4-6-sources-1-jar/net/sf/jsqlparser/expression/JsonFunctionType.java
* /opt/cola/permits/1861305134_1701803197.7620525/0/jsqlparser-4-6-sources-1-jar/net/sf/jsqlparser/expression/OracleNamedFunctionParameter.java
* /opt/cola/permits/1861305134_1701803197.7620525/0/jsqlparser-4-6-sources-1-jar/net/sf/jsqlparser/statement/update/UpdateSet.java
* /opt/cola/permits/1861305134_1701803197.7620525/0/jsqlparser-4-6-sources-1-jar/net/sf/jsqlparser/expression/JsonFunctionExpression.java
* /opt/cola/permits/1861305134_1701803197.7620525/0/jsqlparser-4-6-sources-1-jar/net/sf/jsqlparser/statement/SavepointStatement.java
* /opt/cola/permits/1861305134_1701803197.7620525/0/jsqlparser-4-6-sources-1-jar/net/sf/jsqlparser/statement/alter/RenameTableStatement.java
* /opt/cola/permits/1861305134_1701803197.7620525/0/jsqlparser-4-6-sources-1-

jar/net/sf/jsqlparser/parser/ParserKeywordsUtils.java
* /opt/cola/permits/1861305134_1701803197.7620525/0/jsqlparser-4-6-sources-1-jar/net/sf/jsqlparser/expression/operators/conditional/XorExpression.java
* /opt/cola/permits/1861305134_1701803197.7620525/0/jsqlparser-4-6-sources-1-jar/net/sf/jsqlparser/expression/SpannerInterleaveIn.java
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/opt/cola/permits/1861305134_1701803197.7620525/0/jsqlparser-4-6-sources-1-jar/net/sf/jsqlparser/statement/alter/AlterSession.java
* /opt/cola/permits/1861305134_1701803197.7620525/0/jsqlparser-4-6-sources-1-jar/net/sf/jsqlparser/expression/ArrayConstructor.java
* /opt/cola/permits/1861305134_1701803197.7620525/0/jsqlparser-4-6-sources-1-jar/net/sf/jsqlparser/statement/PurgeStatement.java
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* /opt/cola/permits/1861305134_1701803197.7620525/0/jsqlparser-4-6-sources-1-jar/net/sf/jsqlparser/expression/JsonAggregateUniqueKeysType.java
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* /opt/cola/permits/1861305134_1701803197.7620525/0/jsqlparser-4-6-sources-1-jar/net/sf/jsqlparser/statement/select/IntoTableVisitorAdapter.java
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* /opt/cola/permits/1861305134_1701803197.7620525/0/jsqlparser-4-6-sources-1-jar/net/sf/jsqlparser/statement/alter/EnableConstraint.java
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* /opt/cola/permits/1861305134_1701803197.7620525/0/jsqlparser-4-6-sources-1-jar/net/sf/jsqlparser/expression/ValueListExpression.java
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* /opt/cola/permits/1861305134_1701803197.7620525/0/jsqlparser-4-6-sources-1-jar/net/sf/jsqlparser/statement/upsert/Upsert.java
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* /opt/cola/permits/1861305134_1701803197.7620525/0/jsqlparser-4-6-sources-1-jar/net/sf/jsqlparser/statement/select/IntoTableVisitor.java
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/opt/cola/permits/1861305134_1701803197.7620525/0/jsqlparser-4-6-sources-1-jar/net/sf/jsqlparser/expression/MySQLIndexHint.java
* /opt/cola/permits/1861305134_1701803197.7620525/0/jsqlparser-4-6-sources-1-jar/net/sf/jsqlparser/expression/JsonAggregateFunction.java
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* /opt/cola/permits/1861305134_1701803197.7620525/0/jsqlparser-4-6-sources-1-jar/net/sf/jsqlparser/util/validation/ParseContext.java
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* /opt/cola/permits/1861305134_1701803197.7620525/0/jsqlparser-4-6-sources-1-jar/net/sf/jsqlparser/util/validation/ContextKey.java
* /opt/cola/permits/1861305134_1701803197.7620525/0/jsqlparser-4-6-sources-1-jar/net/sf/jsqlparser/util/validation/ValidationContext.java
* /opt/cola/permits/1861305134_1701803197.7620525/0/jsqlparser-4-6-sources-1-jar/net/sf/jsqlparser/util/validation/validator/OrderByValidator.java
* /opt/cola/permits/1861305134_1701803197.7620525/0/jsqlparser-4-6-sources-1-jar/net/sf/jsqlparser/util/validation/feature/FeatureSetValidation.java
* /opt/cola/permits/1861305134_1701803197.7620525/0/jsqlparser-4-6-sources-1-jar/net/sf/jsqlparser/statement/alter/sequence/AlterSequence.java
* /opt/cola/permits/1861305134_1701803197.7620525/0/jsqlparser-4-6-sources-1-jar/net/sf/jsqlparser/statement/show/ShowTablesStatement.java
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```
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* JSQLParser library
* %%
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* %%
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* #L%
*/
```

Found in path(s):
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* /opt/cola/permits/1861305134_1701803197.7620525/0/jsqlparser-4-6-sources-1-jar/net/sf/jsqlparser/parser/CCJSqlParserVisitor.java
* /opt/cola/permits/1861305134_1701803197.7620525/0/jsqlparser-4-6-sources-1-jar/net/sf/jsqlparser/parser/Provider.java
* /opt/cola/permits/1861305134_1701803197.7620525/0/jsqlparser-4-6-sources-1-jar/net/sf/jsqlparser/parser/CCJSqlParserTreeConstants.java
* /opt/cola/permits/1861305134_1701803197.7620525/0/jsqlparser-4-6-sources-1-jar/net/sf/jsqlparser/parser/CCJSqlParserConstants.java
* /opt/cola/permits/1861305134_1701803197.7620525/0/jsqlparser-4-6-sources-1-jar/net/sf/jsqlparser/parser/CCJSqlParserDefaultVisitor.java
* /opt/cola/permits/1861305134_1701803197.7620525/0/jsqlparser-4-6-sources-1-jar/net/sf/jsqlparser/parser/StreamProvider.java
* /opt/cola/permits/1861305134_1701803197.7620525/0/jsqlparser-4-6-sources-1-jar/net/sf/jsqlparser/parser/TokenMgrException.java

* /opt/cola/permits/1861305134_1701803197.7620525/0/jsqlparser-4-6-sources-1-jar/net/sf/jsqlparser/parser/CCJSqlParserTokenManager.java
* /opt/cola/permits/1861305134_1701803197.7620525/0/jsqlparser-4-6-sources-1-jar/net/sf/jsqlparser/parser/StringProvider.java
* /opt/cola/permits/1861305134_1701803197.7620525/0/jsqlparser-4-6-sources-1-jar/net/sf/jsqlparser/parser/CCJSqlParser.java
* /opt/cola/permits/1861305134_1701803197.7620525/0/jsqlparser-4-6-sources-1-jar/net/sf/jsqlparser/parser/SimpleNode.java
* /opt/cola/permits/1861305134_1701803197.7620525/0/jsqlparser-4-6-sources-1-jar/net/sf/jsqlparser/parser/Node.java
* /opt/cola/permits/1861305134_1701803197.7620525/0/jsqlparser-4-6-sources-1-jar/net/sf/jsqlparser/parser/JJTCCJSqlParserState.java
* /opt/cola/permits/1861305134_1701803197.7620525/0/jsqlparser-4-6-sources-1-jar/net/sf/jsqlparser/parser/Token.java
* /opt/cola/permits/1861305134_1701803197.7620525/0/jsqlparser-4-6-sources-1-jar/net/sf/jsqlparser/parser/ParseException.java
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*/

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1.3322 go.opentelemetry.io/otel/exporters/otlp/otlptrace 1.20.0

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1.3323 go.opentelemetry.io/otel/exporters/otlp/otlptrace/otlptracegrpc 1.20.0

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1.3331 org.apache.felix.configadmin.plugin.interpolation 1.2.8

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* /opt/cola/permits/1863895136_1702014328.616318/0/keycloak-undertow-adapter-spi-18-0-2-jar/META-INF/maven/org.keycloak/keycloak-undertow-adapter-spi/pom.xml
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```
Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Build-Jdk-Spec: 11
Specification-Title: Keycloak Undertow Integration SPI
Specification-Version: 18.0.2
Specification-Vendor: JBoss by Red Hat
Implementation-Title: Keycloak Undertow Integration SPI
Implementation-Version: 18.0.2
Implementation-Vendor: JBoss by Red Hat
Implementation-URL: http://keycloak.org/keycloak-undertow-adapter-spi
Java-Vendor: Red Hat, Inc.
Java-Version: 11.0.13
Os-Arch: amd64
Os-Name: Linux
Os-Version: 5.17.13-300.fc36.x86_64
Scm-Connection: scm:git:git://github.com/keycloak/keycloak.git/keycloak-
undertow-adapter-spi
Scm-Revision: 1c598aa13d600b0b20e21f7eec620f139b006669
Scm-Url: https://github.com/keycloak/keycloak/tree/master/keycloak-under
tow-adapter-spi/
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Bnd-LastModified: 1656070085957
Build-Jdk: 11.0.13
Built-By: jenkins
Bundle-ClassPath: .
Bundle-DocURL: http://www.jboss.org
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-ManifestVersion:
 2
Bundle-Name: Keycloak Undertow Integration SPI
Bundle-SymbolicName: org.keycloak.keycloak-undertow-adapter-spi
Bundle-Vendor: JBoss by Red Hat
Bundle-Version: 18.0.2
Export-Package: org.keycloak.adapters.undertow;uses:="javax.servlet.http
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Fragment-Host: org.keycloak.keycloak-undertow-adapter
Implementation-Vendor-Id: org.keycloak
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version="[18.0,19)";resolution:=optional,org.keycloak.common.util;versi
on="[18.0,19)";resolution:=optional
Tool: Bnd-1.50.0

Found in path(s):
* /opt/cola/permits/1863895136_1702014328.616318/0/keycloak-undertow-adapter-spi-18-0-2-jar/META-INF/MANIFEST.MF

1.3333 httpclient-osgi 4.5.14

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src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java

contains test data from http://aspell.net/test/orig/batch0.tab.
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1.3334 keycloak-osgi-adapter 18.0.2

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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Build-Jdk-Spec: 11
Specification-Title: Keycloak OSGI Adapter
Specification-Version: 18.0.2
Specification-Vendor: JBoss by Red Hat
Implementation-Title: Keycloak OSGI Adapter
Implementation-Version: 18.0.2
Implementation-Vendor: JBoss by Red Hat
Implementation-URL: http://keycloak.org/keycloak-osgi-adapter
Java-Vendor: Red Hat, Inc.
Java-Version: 11.0.13
Os-Arch: amd64
Os-Name: Linux
Os-Version: 5.17.13-300.fc36.x86_64
Scm-Connection: scm:git:git://github.com/keycloak/keycloak.git/keycloak-osgi-adapter
Scm-Revision: 1c598aa13d600b0b20e21f7eec620f139b006669
Scm-Url: https://github.com/keycloak/keycloak/tree/master/keycloak-osgi-adapter/
Bnd-LastModified: 1656070214172
Build-Jdk: 11.0.13
Built-By: jenkins
Bundle-ClassPath: .
Bundle-Description: Keycloak SSO
Bundle-DocURL: http://www.jboss.org
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-ManifestVersion:
2
Bundle-Name: Keycloak OSGI Adapter
Bundle-SymbolicName: org.keycloak.keycloak-osgi-adapter
Bundle-Vendor: JBoss by Red Hat

Bundle-Version: 18.0.2
Export-Package: org.keycloak.adapters.osgi;uses:="org.osgi.framework,org
.keycloak.adapters.spi,org.keycloak.adapters,org.jboss.logging,org.osgi
.util.tracker,org.ops4j.pax.web.service,org.osgi.service.http,org.eclip
se.jetty.security,org.eclipse.jetty.util.security,javax.servlet,org.apa
che.cxf.transport.http,org.apache.cxf.transport.servlet,org.osgi.servic
e.cm";version="18.0.2"
Implementation-Vendor-Id: org.keycloak
Import-Package: javax.servlet;version="[3.1,5)";resolution:=optional,org
.apache.cxf.transport.http;version="[3,4)";resolution:=optional,org.apa
che.cxf.transport.servlet;version="[3,4)";resolution:=optional,org.ecli
pse.jetty.security;version="[8.1,10)";resolution:=optional,org.eclipse.
jetty.util.security;version="[8.1,10)";resolution:=optional,org.jboss.l
ogging;version="[3.4,4)";resolution:=optional,org.keycloak.adapters;ver
 sion="18.0.2",org.keycloak.adapters.spi;version="18.0.2",org.ops4j.pax.
web.service;version="[3.0,8)",org.osgi.framework;version="[1.5,2)";reso
lution:=optional,org.osgi.service.cm;version="[1.3,2)";resolution:=opti
onal,org.osgi.service.http;version="[1.2,2)";resolution:=optional,org.o
sgi.util.tracker;version="[1.4,2)";resolution:=optional
Tool: Bnd-1.50.0

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/opt/cola/permits/1863894663_1702014009.3479397/0/keycloak-osgi-adapter-18-0-2-jar/org/keycloak/adapters/osgi/PaxWebIntegrationService.class: binary file matches
/opt/cola/permits/1863894663_1702014009.3479397/0/keycloak-osgi-adapter-18-0-2-jar/org/keycloak/adapters/osgi/PaxWebIntegrationService$JettyConstraintHandler.class: binary file matches

Found in path(s):
* /bin/grep

1.3335 geronimo-connector 3.1.5

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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Build-Jdk-Spec: 11
Specification-Title: Keycloak Undertow Integration
Specification-Version: 18.0.2
Specification-Vendor: JBoss by Red Hat
Implementation-Title: Keycloak Undertow Integration
Implementation-Version: 18.0.2
Implementation-Vendor: JBoss by Red Hat
Implementation-URL: http://keycloak.org/keycloak-undertow-adapter
Java-Vendor: Red Hat, Inc.
Java-Version: 11.0.13
Os-Arch: amd64
Os-Name: Linux
Os-Version: 5.17.13-300.fc36.x86_64
Scm-Connection: scm:git:git://github.com/keycloak/keycloak.git/keycloak-
undertow-adapter
Scm-Revision: 1c598aa13d600b0b20e21f7eec620f139b006669
Scm-Url: https://github.com/keycloak/keycloak/tree/master/keycloak-under
tow-adapter/
Bnd-LastModified: 1656070202676
Build-Jdk: 11.0.13
Built-By: jenkins
Bundle-ClassPath: .
Bundle-DocURL: http://www.jboss.org
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-ManifestVersion:

2
Bundle-Name: Keycloak Undertow Integration
Bundle-SymbolicName: org.keycloak.keycloak-undertow-adapter
Bundle-Vendor: JBoss by Red Hat
Bundle-Version: 18.0.2
Export-Package: org.keycloak.adapters.undertow;uses:="org.keycloak,io.un
dertow.security.api,io.undertow.server,io.undertow.util,org.keycloak.ad
apters.spi,org.keycloak.adapters,org.keycloak.enums,io.undertow.server.
session,io.undertow.security.idm,javax.servlet,io.undertow.servlet.api,
io.undertow.server.handlers.form,io.undertow.servlet.util,io.undertow.s
ervlet,org.keycloak.constants,org.jboss.logging,io.undertow.servlet.han
dlers,javax.servlet.http";version="18.0.2"
Implementation-Vendor-Id: org.keycloak
Import-Package: io.undertow.security.api;version="[1.4,3)",io.undertow.s
ecurity.idm;version="[1.4,3)",io.undertow.server;version="[1.4,3)",io.u
ndertow.server.handlers.form;version="[1.4,3)",io.undertow.server.sessi
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4,3)",io.undertow.servlet.util;version="[1.4,3)",io.undertow.util;versi
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.servlet.http;version="[3.1,5)";resolution:=optional,org.jboss.logging;
version="[3.4,4)";resolution:=optional,org.keycloak;version="[18.0,19)"
;resolution:=optional,org.keycloak.adapters;version="[18.0,19)";resolut
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=optional,org.keycloak.constants;version="[18.0,19)";resolution:=option
al,org.keycloak.enums;version="[18.0,19)";resolution:=optional
Tool: Bnd-1.50.0

Found in path(s):
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#

org.keycloak.adapters.undertow.KeycloakServletExtension

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* /opt/cola/permits/1863895668_1702013962.9281626/0/keycloak-undertow-adapter-18-0-2-jar/META-INF/services/io.undertow.servlet.ServletExtension
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/opt/cola/permits/1863895668_1702013962.9281626/0/keycloak-undertow-adapter-18-0-2-jar/org/keycloak/adapters/undertow/KeycloakServletExtension.class: binary file matches
/opt/cola/permits/1863895668_1702013962.9281626/0/keycloak-undertow-adapter-18-0-2-jar/org/keycloak/adapters/undertow/ServletKeycloakAuthMech.class: binary file matches
/opt/cola/permits/1863895668_1702013962.9281626/0/keycloak-undertow-adapter-18-0-2-jar/org/keycloak/adapters/undertow/UndertowAuthenticationMechanism.class: binary file matches

Found in path(s):
* /bin/grep

1.3337 httpcore-osgi 4.4.16

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1.3338 keycloak-pax-web-undertow 18.0.2

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Found in path(s):
* /opt/cola/permits/1863895567_1702013951.176699/0/keycloak-pax-web-undertow-18-0-2-sources-jar/org/keycloak/adapters/osgi/undertow/PaxWebIntegrationService.java

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Found in path(s):
* /opt/cola/permits/1863895567_1702013951.176699/0/keycloak-pax-web-undertow-18-0-2-sources-jar/org/keycloak/adapters/osgi/undertow/KeycloakAuthenticatorService.java
* /opt/cola/permits/1863895567_1702013951.176699/0/keycloak-pax-web-undertow-18-0-2-sources-jar/org/keycloak/adapters/osgi/undertow/CxfKeycloakAuthHandler.java
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* /opt/cola/permits/1863895567_1702013951.176699/0/keycloak-pax-web-undertow-18-0-2-sources-jar/META-INF/maven/org.keycloak/keycloak-pax-web-undertow/pom.xml

1.3339 apache-felix-framework-security 2.8.4

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will operate
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1.3346 github.com/elliotchance/orderedmap 1.5.1

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1.3347 x-oauth2 0.15.0

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1.3348 mqttpaho 1.6.1

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1.3349 msgp 1.1.9

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1.3350 boringssl 2.0.61

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Found in path(s):
* /opt/cola/permits/1865972192_1702457538.1092439/0/netty-tcnative-boringssl-static-2-0-62-final-jar/META-INF/maven/io.netty/netty-tcnative-boringssl-static/pom.xml
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Manifest-Version: 1.0
Implementation-Title: Netty/TomcatNative [BoringSSL - Static]
Bundle-Description: A Mavenized fork of Tomcat Native which incorporat
es various patches. This artifact is statically linked to BoringSS
L and Apache APR.
Automatic-Module-Name: io.netty.internal.tcnative.openssl.osx.aarch_64
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-SymbolicName: io.netty.tcnative-boringssl-static
Implementation-Version: 2.0.62.Final
Built-By: norman
Bnd-LastModified: 1696596308700
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Fragment-Host: io.netty.tcnative-classes
Tool: Bnd-5.1.1.202006162103
Implementation-Vendor: The Netty Project
Bundle-Name: Netty/TomcatNative [BoringSSL - Static]
Bundle-Version: 2.0.62.Final
Build-Jdk-Spec: 1.8
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_382
Implementation-URL:
https://github.com/netty/netty-tcnative/netty-tcna
tive-boringssl-static/

Found in path(s):
* /opt/cola/permits/1865972192_1702457538.1092439/0/netty-tcnative-boringssl-static-2-0-62-final-jar/META-INF/MANIFEST.MF

1.3351 grpc 1.60.0

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1.3352 stax 4.2.2

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1.3353 snappy-java 1.1.10.5

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Manifest-Version: 1.0
Bnd-LastModified: 1695799258578
Bundle-ActivationPolicy: lazy
Bundle-Activator: org.xerial.snappy.SnappyBundleActivator
Bundle-Description: snappy-java: A fast compression/decompression libr
ary
Bundle-DocURL: http://www.xerial.org/
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: snappy-java: A fast compression/decompression library
Bundle-NativeCode: org/xerial/snappy/native/Windows/x86_64/snappyjava.
dll;osname=win32;processor=x86-64,org/xerial/snappy/native/Windows/x8
6_64/snappyjava.dll;osname=win32;processor=x64,org/xerial/snappy/nati
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ial/snappy/native/Windows/x86/snappyjava.dll;osname=win32;processor=x
86,org/xerial/snappy/native/Mac/x86/libsnappyjava.jnilib;osname=macos
x;processor=x86,org/xerial/snappy/native/Mac/x86_64/libsnappyjava.dyl

ib;osname=macosx;processor=x86-64,org/xerial/snappy/native/Mac/aarch6
4/libsnappyjava.dylib;osname=macosx;processor=aarch64,org/xerial/snap
py/native/Linux/x86_64/libsnappyjava.so;osname=linux;processor=x86-64
,org/xerial/snappy/native/Linux/x86_64/libsnappyjava.so;osname=linux;
processor=x64,org/xerial/snappy/native/Linux/x86_64/libsnappyjava.so;
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o;osname=sunos;processor=x86-64,org/xerial/snappy/native/SunOS/sparc/
libsnappyjava.so;osname=sunos;processor=sparc
Bundle-SymbolicName: org.xerial.snappy.snappy-java
Bundle-Vendor: xerial.org
Bundle-Version: 1.1.10.5
Created-By: 11.0.20 (Azul Systems, Inc.)
Export-Package: org.xerial.snappy;uses:="org.osgi.framework,org.xerial
.snappy.buffer,org.xerial.snappy.pool";version="1.1.10",org.xerial.sn
appy.buffer;version="1.1.10",org.xerial.snappy.pool;version="1.1.10"
Implementation-Title: snappy-java
Implementation-URL: https://github.com/xerial/snappy-java
Implementation-Vendor: xerial.org
Implementation-Vendor-Id: org.xerial.snappy
Implementation-Version: 1.1.10.5
Import-Package: org.osgi.framework;version="[1.5,2)"
Private-Package:
org.xerial.snappy.native.AIX.ppc,org.xerial.snappy.na
tive.AIX.ppc64,org.xerial.snappy.native.FreeBSD.x86_64,org.xerial.sna
ppy.native.Linux.aarch64,org.xerial.snappy.native.Linux.android-aarch
64,org.xerial.snappy.native.Linux.android-arm,org.xerial.snappy.nativ
e.Linux.arm,org.xerial.snappy.native.Linux.armv6,org.xerial.snappy.na
tive.Linux.armv7,org.xerial.snappy.native.Linux.ppc,org.xerial.snappy
.native.Linux.ppc64,org.xerial.snappy.native.Linux.ppc64le,org.xerial
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.xerial.snappy.native.Linux.x86,org.xerial.snappy.native.Linux.x86_64
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6,org.xerial.snappy.native.Mac.x86_64,org.xerial.snappy.native,org.xe
rial.snappy.native.SunOS.sparc,org.xerial.snappy.native.SunOS.x86,org
.xerial.snappy.native.SunOS.x86_64,org.xerial.snappy.native.Windows.a
arch64,org.xerial.snappy.native.Windows.x86,org.xerial.snappy.native.

Windows.x86_64
Require-Capability:
 osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Specification-Title: snappy-java
Specification-Vendor: xerial.org
Specification-Version: 1.1.10.5
Tool: Bnd-5.1.2.202007211702

Found in path(s):
* /opt/cola/permits/1866412376_1702418090.4402528/0/snappy-java-1-1-10-5-1-jar/META-INF/MANIFEST.MF

1.3354 prometheus-client-model 0.4.0

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1.3355 bcpkix-fips 1.0.7

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```
/**
 * Base constructor.
 * <p>
 * The authorizer attempts to perform matching (including the use of the wildcard) in accordance with RFC 6125.
```

```
* </p>
* <p>
* Known suffixes is a list of public domain suffixes that can't be used as wild cards for
* example *.com, or c*c.com, as a dns wildcard could match every/most .com domains if a registrar were issue it.
* If *.com is in the known suffixes list will not be allowed to match.
* </p>
*
* @param knownSuffixes a set of suffixes that cannot be wild-carded, e.g. { ".com", ".net", ".org" }
*/
```

Found in path(s):
* /opt/cola/permits/1866420555_1702420805.8968983/0/bcpkix-fips-1-0-7-sources-2-jar/org/bouncycastle/est/jcajce/JsseDefaultHostnameAuthorizer.java

1.3356 prometheus-client-model 0.5.0

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Metadata-Version: 1.1
Name: prometheus-client
Version: 0.5.0
Summary: Python client for the Prometheus monitoring system.
Home-page: https://github.com/prometheus/client_python
Author: Brian Brazil
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Description: See https://github.com/prometheus/client_python/blob/master/README.md for documentation.
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Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: Information Technology
Classifier: Intended Audience :: System Administrators
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language ::
Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy
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Found in path(s):
* /opt/cola/permits/1866430933_1702594539.77632/0/prometheus-client-0-5-0-1-tar-gz/prometheus_client-0.5.0/prometheus_client.egg-info/PKG-INFO
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* /opt/cola/permits/1866430933_1702594539.77632/0/prometheus-client-0-5-0-1-tar-gz/prometheus_client-0.5.0/prometheus_client/decorator.py
No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.1
Name: prometheus_client
Version: 0.5.0
Summary: Python client for the Prometheus monitoring system.
Home-page: https://github.com/prometheus/client_python
Author: Brian Brazil
Author-email: brian.brazil@robustperception.io
License: Apache Software License 2.0
Description: See https://github.com/prometheus/client_python/blob/master/README.md for documentation.
Keywords: prometheus monitoring instrumentation client
Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: Information Technology
Classifier: Intended Audience :: System Administrators
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
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Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy
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* /opt/cola/permits/1866430933_1702594539.77632/0/prometheus-client-0-5-0-1-tar-gz/prometheus_client-0.5.0/PKG-INFO

1.3357 scala-reflect 2.13.12

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1.3358 hsqldb-jdbc 2.7.2

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1.3362 afero 1.11.0

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1.3363 commons-lang3 3.14.0

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1.3364 terraform-provider-vsphere 2.5.1

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subcategory: "Administration"
layout: "vsphere"
page_title: "VMware vSphere: vsphere_license"
sidebar_current: "docs-vsphere-data-source-admin-license"
description: |-
 Provides a VMware vSphere license data source. This can be used to get the
 general attributes of license keys.
---

# vsphere\_license

The `vsphere_license` data source can be used to get the general attributes of
a license keys from a vCenter Server instance.

## Example Usage
```

```hcl
data "vsphere_license" "license" {
 license_key = "00000-00000-00000-00000-00000"
}
```

Argument Reference

The following arguments are supported:

* `license_key` - (Required) The license key.

Attribute Reference

The following attributes are exported:

* `labels` - A map of key/value pairs attached as labels (tags) to the license key.
* `edition_key` - The product edition of the license key.
* `total` - Total number of units (example: CPUs) contained in the license.
* `used` - The number of units (example: CPUs) assigned
 to this license.
* `name` - The display name for the license.

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```
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package vsphere

import (
 "errors"
 "fmt"
 "os"
 "strconv"
 "testing"

 "regexp"

 "github.com/hashicorp/terraform-plugin-sdk/v2/helper/resource"
 "github.com/hashicorp/terraform-plugin-sdk/v2/terraform"
 "github.com/vmware/govmomi/license"
)
```

```
const testAccVSphereLicenseInvalidConfig = `
resource "vsphere_license" "foo" {
license_key = "HN422-47193-58V7M-03086-0JAN2"
}
`

func TestAccResourceVSphereLicense_basic(t *testing.T) {
 resource.Test(t, resource.TestCase{
  PreCheck: func() {
   RunSweepers()
   testAccPreCheck(t)
   testAccVSpherePreLicenseBasicCheck(t)
  },
  Providers:    testAccProviders,
  CheckDestroy: testAccVSphereLicenseDestroy,
  Steps: []resource.TestStep{
   {
    Config: testAccVSphereLicenseBasicConfig(),
    Check: resource.ComposeTestCheckFunc(
     testAccVSphereLicenseExists("vsphere_license.foo"),
    ),
   },
  },
 })
}

func TestAccResourceVSphereLicense_invalid(t *testing.T) {
 resource.Test(t,
 resource.TestCase{
  PreCheck: func() {
   RunSweepers()
   testAccPreCheck(t)
  },
  Providers:    testAccProviders,
  CheckDestroy: testAccVSphereLicenseDestroy,
  Steps: []resource.TestStep{
   {
    Config: testAccVSphereLicenseInvalidConfig,
    Check: resource.ComposeTestCheckFunc(
     testAccVSphereLicenseNotExists("vsphere_license.foo"),
    ),
    ExpectError: regexp.MustCompile("License is not valid for this product"),
   },
  },
 })
}

func TestAccResourceVSphereLicense_withLabelsOnVCenter(t *testing.T) {
```

```
 resource.Test(t, resource.TestCase{
  PreCheck: func() {
   RunSweepers()
   testAccPreCheck(t)
   testAccVSpherePreLicenseBasicCheck(t)
   testAccVspherePreLicenseESXiServerIsNotSetCheck(t)
  },
  Providers:    testAccProviders,
  CheckDestroy: testAccVSphereLicenseDestroy,
  Steps: []resource.TestStep{
   {
    Destroy: false,
    Config:  testAccVSphereLicenseWithLabelConfig(),
    Check: resource.ComposeTestCheckFunc(
     testAccVSphereLicenseWithLabelExists("vsphere_license.foo"),
    ),
   },
  },
 })
}

func
 TestAccResourceVSphereLicense_withLabelsOnESXiServer(t *testing.T) {
 resource.Test(t, resource.TestCase{
  PreCheck: func() {
   RunSweepers()
   testAccPreCheck(t)
   testAccVSpherePreLicenseBasicCheck(t)
   testAccSkipIfNotEsxi(t)
  },
  Providers:    testAccProviders,
  CheckDestroy: testAccVSphereLicenseDestroy,
  Steps: []resource.TestStep{
   {
    Config: testAccVSphereLicenseWithLabelConfig(),
    // This error will be thrown when ran against an ESXi server.
    ExpectError: regexp.MustCompile("Labels are not allowed in ESXi"),
   },
  },
 })
}

func testAccVspherePreLicenseESXiServerIsNotSetCheck(t *testing.T) {
 key, err := strconv.ParseBool(os.Getenv("TF_VAR_VSPHERE_TEST_ESXI"))
 if err == nil && key {
  t.Skip("TF_VAR_VSPHERE_TEST_ESXI must not be set for this acceptance test")
 }
}
```

```
func testAccVSphereLicenseWithLabelConfig() string {
 return fmt.Sprintf(`
resource "vsphere_license" "foo" {
license_key = "%s"
 labels
 = {
  VpxClientLicenseLabel = "Hello World"
  TestTitle = "fooBar"
 }
}
`, os.Getenv("TF_VAR_VSPHERE_LICENSE"))
}

func testAccVSphereLicenseBasicConfig() string {
 return fmt.Sprintf(`
resource "vsphere_license" "foo" {
license_key = "%s"
}
`, os.Getenv("TF_VAR_VSPHERE_LICENSE"))
}

func testAccVSphereLicenseDestroy(s *terraform.State) error {
 client := testAccProvider.Meta().(*Client).vimClient
 manager := license.NewManager(client.Client)
 message := ""
 for _, rs := range s.RootModule().Resources {
  if rs.Type != "vsphere_license" {
   continue
  }

  key := rs.Primary.ID
  if isKeyPresent(key, manager) {
   message += fmt.Sprintf("%s is still present on the server", key)
  }
 }
 if message != "" {
  return errors.New(message)
 }
 return nil
}

func testAccVSphereLicenseExists(name string) resource.TestCheckFunc {
 return func(s *terraform.State) error {
  rs, ok := s.RootModule().Resources[name]

  if !ok {
   return fmt.Errorf("%s key not found on the server", name)
```

```
  }

  client
 := testAccProvider.Meta().(*Client).vimClient
  manager := license.NewManager(client.Client)

  if !isKeyPresent(rs.Primary.ID, manager) {
   return fmt.Errorf("%s key not found on the server", rs.Primary.ID)
  }

  return nil
 }
}

func testAccVSphereLicenseNotExists(name string) resource.TestCheckFunc {
 return func(s *terraform.State) error {
  _, ok := s.RootModule().Resources[name]

  if ok {
   return fmt.Errorf("%s key should not be present on the server", name)
  }

  return nil
 }
}

func testAccVSpherePreLicenseBasicCheck(t *testing.T) {
 if key := os.Getenv("TF_VAR_VSPHERE_LICENSE"); key == "" {
  t.Fatal("TF_VAR_VSPHERE_LICENSE must be set for acceptance test")
 }
}

func testAccVSphereLicenseWithLabelExists(name string) resource.TestCheckFunc {
 return func(s *terraform.State) error {
  rs, ok := s.RootModule().Resources[name]

  if !ok {
   return fmt.Errorf("%s key not found on the server", name)
  }

  client := testAccProvider.Meta().(*Client).vimClient
  manager
 := license.NewManager(client.Client)

  if !isKeyPresent(rs.Primary.ID, manager) {
   return fmt.Errorf("%s key not found on the server", rs.Primary.ID)
  }
```

```
  info := getLicenseInfoFromKey(rs.Primary.ID, manager)

  if len(info.Labels) == 0 {
   return fmt.Errorf("The labels were not set for the key %s", info.LicenseKey)
  }

  if len(info.Labels) != 2 {
   return fmt.Errorf(`The number of labels on the server are incorrect. Expected 2 Got %d`,
    len(info.Labels))
  }

  return nil
 }
}
---
subcategory: "Administration"
layout: "vsphere"
page_title: "VMware vSphere: vsphere_license"
sidebar_current: "docs-vsphere-resource-admin-license"
description: |-
 Provides a VMware vSphere license resource. This can be used to add and remove license keys.
---

# vsphere\_license

Provides a VMware vSphere license resource. This can be used to add and remove license keys.

## Example Usage

```hcl
resource "vsphere_license" "licenseKey" {
 license_key = "452CQ-2EK54-K8742-00000-00000"

 labels {
   VpxClientLicenseLabel = "Hello World"
   Workflow              = "Hello World"
 }

}
```

Argument Reference

The following arguments are supported:

* `license_key` - (Required) The license key to add.
* `labels` - (Optional) A map of key/value pairs to be attached as labels (tags) to the license key.
```

```
## Attributes Reference

The following attributes are exported:

* `edition_key` - The product edition of the license key.
* `total` - Total number of units (example: CPUs) contained
 in the license.
* `used` - The number of units (example: CPUs) assigned to this license.
* `name` - The display name for the license.
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package vsphere

import (
 "errors"
 "fmt"
 "log"

 "context"

 "github.com/hashicorp/terraform-plugin-sdk/v2/helper/schema"
 "github.com/vmware/govmomi/license"
 "github.com/vmware/govmomi/vim25/methods"
 "github.com/vmware/govmomi/vim25/types"
)

var (
 // ErrNoSuchKeyFound is an error primarily thrown by the Read method of the resource.
 // The error doesn't display the key itself for security reasons.
 ErrNoSuchKeyFound = errors.New("The key was not found")
 // ErrKeyCannotBeDeleted is an error which occurs when a key that is used by VMs is
 // being removed
 ErrKeyCannotBeDeleted = errors.New("The key wasn't deleted")
)

func resourceVSphereLicense() *schema.Resource {
 return &schema.Resource{

  SchemaVersion: 1,

  Create: resourceVSphereLicenseCreate,
  Read:   resourceVSphereLicenseRead,
  Update: resourceVSphereLicenseUpdate,
  Delete: resourceVSphereLicenseDelete,

  Schema: map[string]*schema.Schema{
```

```
  "license_key":
 {
   Type:     schema.TypeString,
   Required: true,
   ForceNew: true,
  },
  "labels": {
   Type:     schema.TypeMap,
   Optional: true,
   Elem:     &schema.Schema{Type: schema.TypeString},
  },

  // computed properties returned by the API
  "edition_key": {
   Type:     schema.TypeString,
   Computed: true,
  },
  "name": {
   Type:     schema.TypeString,
   Computed: true,
  },
  "total": {
   Type:     schema.TypeInt,
   Computed: true,
  },
  "used": {
   Type:     schema.TypeInt,
   Computed: true,
  },
 },
 }
}

func resourceVSphereLicenseCreate(d *schema.ResourceData, meta interface{}) error {
 log.Println("[INFO] Running the create method")

 client := meta.(*Client).vimClient
 manager := license.NewManager(client.Client)

 key := d.Get("license_key").(string)

 log.Println(" [INFO] Reading the key from the resource data")
 var labelMap map[string]interface{}
 if labels, ok := d.GetOk("labels"); ok {
  labelMap = labels.(map[string]interface{})
 }

 var
```

```
 info types.LicenseManagerLicenseInfo
 var err error
 switch t := client.ServiceContent.About.ApiType; t {
 case "HostAgent":
  // Labels are not allowed in ESXi
  if len(labelMap) != 0 {
   return errors.New("Labels are not allowed in ESXi")
  }
  info, err = manager.Update(context.TODO(), key, nil)

 case "VirtualCenter":
  info, err = manager.Add(context.TODO(), key, nil)
  if err != nil {
   return err
  }
  err = updateLabels(manager, key, labelMap)

 default:
  return fmt.Errorf("unsupported ApiType: %s", t)
 }

 if err != nil {
  return err
 }

 if err = DecodeError(info); err != nil {
  return err
 }

 // This can be used in the read method to set the computed parameters
 d.SetId(info.LicenseKey)

 return resourceVSphereLicenseRead(d, meta)
}

func resourceVSphereLicenseRead(d *schema.ResourceData, meta interface{}) error {
 log.Println("[INFO] Running the read method")

 client := meta.(*Client).vimClient
 manager := license.NewManager(client.Client)

 if info
 := getLicenseInfoFromKey(d.Get("license_key").(string), manager); info != nil {
  log.Println("[INFO] Setting the values")
  _ = d.Set("edition_key", info.EditionKey)
  _ = d.Set("total", info.Total)
  _ = d.Set("used", info.Used)
  _ = d.Set("name", info.Name)
```

```
  _ = d.Set("labels", keyValuesToMap(info.Labels))
 } else {
  return ErrNoSuchKeyFound
 }

 return nil
}

// resourceVSphereLicenseUpdate check for change in labels of the key and updates them.
func resourceVSphereLicenseUpdate(d *schema.ResourceData, meta interface{}) error {
 log.Println("[INFO] Running the update method")

 client := meta.(*Client).vimClient
 manager := license.NewManager(client.Client)

 if key, ok := d.GetOk("license_key"); ok {
  licenseKey := key.(string)
  if !isKeyPresent(licenseKey, manager) {
   return ErrNoSuchKeyFound
  }

  if d.HasChange("labels") {
   labelMap := d.Get("labels").(map[string]interface{})

   err := updateLabels(manager, licenseKey, labelMap)
   if err != nil {
    return err
   }
  }
 }

 return
 resourceVSphereLicenseRead(d, meta)
}

func updateLabels(manager *license.Manager, licenseKey string, labelMap map[string]interface{}) error {
 for key, value := range labelMap {
  err := UpdateLabel(context.TODO(), manager, licenseKey, key, value.(string))
  if err != nil {
   return err
  }
 }
 return nil
}

func resourceVSphereLicenseDelete(d *schema.ResourceData, meta interface{}) error {
 log.Println("[INFO] Running the delete method")
```

```
 client := meta.(*Client).vimClient
 manager := license.NewManager(client.Client)

 if key := d.Get("license_key").(string); isKeyPresent(key, manager) {
  err := manager.Remove(context.TODO(), key)

  if err != nil {
   return err
  }

  // if the key is still present
  if isKeyPresent(key, manager) {
   return ErrKeyCannotBeDeleted
  }
  d.SetId("")
  return nil
 }
 return ErrNoSuchKeyFound
}

func getLicenseInfoFromKey(key string, manager *license.Manager) *types.LicenseManagerLicenseInfo {
 // Use of decode is not returning
 labels so using list instead
 // Issue - https://github.com/vmware/govmomi/issues/797
 infoList, _ := manager.List(context.TODO())
 for _, info := range infoList {
  if info.LicenseKey == key {
   return &info
  }
 }
 return nil
}

// isKeyPresent iterates over the InfoList to check if the license is present or not.
func isKeyPresent(key string, manager *license.Manager) bool {
 infoList, _ := manager.List(context.TODO())

 for _, info := range infoList {
  if info.LicenseKey == key {
   return true
  }
 }

 return false
}

// UpdateLabel provides a wrapper around the UpdateLabel data objects
func UpdateLabel(ctx context.Context, m *license.Manager, licenseKey string, key string, val string) error {
```

```
 req := types.UpdateLicenseLabel{
  This:       m.Reference(),
  LicenseKey: licenseKey,
  LabelKey:   key,
  LabelValue: val,
 }

 _, err := methods.UpdateLicenseLabel(ctx, m.Client(), &req)
 return err
}

// DecodeError tries to find a specific error which occurs when an invalid key is passed
//
 to the server
func DecodeError(info types.LicenseManagerLicenseInfo) error {
 for _, property := range info.Properties {
  if property.Key == "diagnostic" {
   return errors.New(property.Value.(string))
  }
 }

 return nil
}

func keyValuesToMap(keyValues []types.KeyValue) map[string]interface{} {
 KVMap := make(map[string]interface{})
 for _, keyValue := range keyValues {
  KVMap[keyValue.Key] = keyValue.Value
 }
 return KVMap
}
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package vsphere

import (
 "log"

 "github.com/hashicorp/terraform-plugin-sdk/v2/helper/schema"
 "github.com/vmware/govmomi/license"
)

func dataSourceVSphereLicense() *schema.Resource {
 return &schema.Resource{
  Read: dataSourceVSphereLicenseRead,

  Schema: map[string]*schema.Schema{
```

```
  "license_key": {
   Type:     schema.TypeString,
   Required: true,
  },

  // computed properties returned by the API
  "id": {
   Type:     schema.TypeString,
   Computed: true,
  },
  "labels": {
   Type:     schema.TypeMap,
   Computed: true,
   Elem:     &schema.Schema{Type: schema.TypeString},
  },
  "edition_key": {
   Type:     schema.TypeString,
   Computed: true,
  },
  "name": {
   Type:     schema.TypeString,
   Computed: true,
  },
  "total": {
   Type:     schema.TypeInt,
   Computed: true,
  },
  "used": {
   Type:     schema.TypeInt,
   Computed: true,
  },
 },
}
}

func dataSourceVSphereLicenseRead(d
 *schema.ResourceData, meta interface{}) error {

 client := meta.(*Client).vimClient
 manager := license.NewManager(client.Client)
 licenseKey := d.Get("license_key").(string)
 if info := getLicenseInfoFromKey(d.Get("license_key").(string), manager); info != nil {
  log.Println("[INFO] Setting the values")
  d.Set("edition_key", info.EditionKey)
  d.Set("total", info.Total)
  d.Set("used", info.Used)
  d.Set("name", info.Name)
  if err := d.Set("labels", keyValuesToMap(info.Labels)); err != nil {
```

```
  return err
 }
 d.SetId(licenseKey)
 return nil
} else {
 return ErrNoSuchKeyFound
}
}
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package vsphere

import (
 "fmt"
 "os"
 "testing"

 "github.com/hashicorp/terraform-plugin-sdk/v2/helper/resource"
)

func TestAccDataSourceVSphereLicense_basic(t *testing.T) {
 resource.Test(t, resource.TestCase{
  PreCheck: func() {
   RunSweepers()
   testAccPreCheck(t)
   testAccDataSourceVSphereLicensePreCheck(t)
  },
  Providers: testAccProviders,
  Steps: []resource.TestStep{
   {
    Config: testAccDataSourceVSphereLicenseConfig(),
    Check: resource.ComposeTestCheckFunc(
     resource.TestCheckResourceAttr(
      "data.vsphere_license.license",
      "id",
      os.Getenv("TF_VAR_VSPHERE_LICENSE"),
     ),
    ),
   },
  },
 })
}

func testAccDataSourceVSphereLicensePreCheck(t *testing.T) {
 if os.Getenv("TF_VAR_VSPHERE_LICENSE") == "" {
  t.Skip("set TF_VAR_VSPHERE_LICENSE to run vsphere_license acceptance tests")
 }
```

```
}

func testAccDataSourceVSphereLicenseConfig() string {
 return fmt.Sprintf(`
data "vsphere_license"
 "license" {
 license_key = "%s"
}
`, os.Getenv("TF_VAR_VSPHERE_LICENSE"))
}
```

1.3365 linenoise 6.2.14

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1.3366 ojdbc8 23.3.0.23.09

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Version 1.0

Last updated: 28 June 2022

1.3367 hashicorp-terraform-plugin-framework-timetypes 0.3.0

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BSON library for Go

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1.3383 jsonpatch 5.7.0+incompatible

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1.3384 x-text 0.14.0

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1.3387 jackson-annotations 2.16.0

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1.3388 spf13-cast 1.6.0

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BSON library for Go

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import (
 "encoding/json"

 "github.com/go-openapi/swag"
)

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 LicenseProps
 VendorExtensible
}

// LicenseProps holds the properties of a License object
type LicenseProps struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}

// UnmarshalJSON
 hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
 if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
  return err
 }
 return json.Unmarshal(data, &l.VendorExtensible)
}

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
 b1, err := json.Marshal(l.LicenseProps)
 if err != nil {
  return nil, err
 }
 b2, err := json.Marshal(l.VendorExtensible)
 if err != nil {
  return nil, err
 }
 return swag.ConcatJSON(b1, b2), nil
}
```

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package spec

import (
 "encoding/json"
 "testing"

 "github.com/stretchr/testify/assert"
 "github.com/stretchr/testify/require"
)

var license = License{
 LicenseProps:     LicenseProps{Name: "the name", URL: "the url"},
 VendorExtensible: VendorExtensible{Extensions: map[string]interface{}{"x-license": "custom term"}}}

const licenseJSON = `{
 "name": "the name",
```

```
 "url": "the url",
 "x-license": "custom
 term"
}`

func TestIntegrationLicense(t *testing.T) {

 // const licenseYAML = "name: the name\nurl: the url\n"

 b, err := json.MarshalIndent(license, "", "\t")
 require.NoError(t, err)
 assert.Equal(t, licenseJSON, string(b))

 actual := License{}
 err = json.Unmarshal([]byte(licenseJSON), &actual)
 require.NoError(t, err)
 assert.EqualValues(t, license, actual)
}
```

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Found in path(s):
* /opt/cola/permits/1877385361_1703950493.6765766/0/jsch-0-1-55-sources-7-jar/com/jcraft/jsch/ProxyHTTP.java
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* /opt/cola/permits/1877385361_1703950493.6765766/0/jsch-0-1-55-sources-7-jar/com/jcraft/jsch/RequestX11.java
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jar/com/jcraft/jsch/JSchAuthCancelException.java
* /opt/cola/permits/1877385361_1703950493.6765766/0/jsch-0-1-55-sources-7-jar/com/jcraft/jsch/jce/SignatureRSA.java

1.3403 spf13-afero 1.11.0

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1.3411 logr 1.4.1

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1.3412 go-openapi 0.26.2

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1.3414 go-openapi-jsonpointer 0.20.2

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1.3415 wcwidth 0.2.13

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1.3416 spf13-viper 1.18.2

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1.3417 cel-go 0.17.7

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==========
The common/types/pb/equal.go modification of proto.Equal logic
==========
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1.3418 go-hclog 1.6.2

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* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/reader/Editor.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/reader/Candidate.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/builtins/ConfigurationPath.java
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* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/terminal/impl/AbstractWindowsTerminal.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/utils/InfoCmp.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/utils/Status.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/reader/impl/completer/StringsCompleter.java
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* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/widget/TailTipWidgets.java
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class = org.jline.terminal.impl.jansi.JansiTerminalProvider

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* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/META-INF/maven/org.jline/jline-remote-ssh/pom.xml
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/META-INF/maven/org.jline/jline-remote-telnet/pom.xml
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/META-INF/maven/org.jline/jline-reader/pom.xml
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/META-INF/maven/org.jline/jline-terminal-jna/pom.xml
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/META-INF/maven/org.jline/jline-terminal/pom.xml
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/META-INF/maven/org.jline/jline-builtins/pom.xml

* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/META-INF/maven/org.jline/jline-style/pom.xml
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Found in path(s):
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/style/NopStyleSource.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/terminal/impl/jansi/solaris/SolarisNativePty.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/style/StyleResolver.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/terminal/impl/AbstractWindowsConsoleWriter.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/utils/NonBlockingPumpReader.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/reader/impl/BufferImpl.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/terminal/impl/jansi/freebsd/FreeBsdNativePty.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/style/InterpolationHelper.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/reader/impl/SimpleMaskingCallback.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/builtins/ssh/Ssh.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/utils/WriterOutputStream.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/terminal/impl/jansi/linux/LinuxNativePty.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/style/StyledWriter.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/builtins/telnet/Telnet.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/style/MemoryStyleSource.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/utils/NonBlockingPumpInputStream.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/utils/PumpReader.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/reader/Buffer.java

* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/style/StyleColor.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/builtins/ssh/ShellFactoryImpl.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/terminal/impl/jansi/osx/OsXNativePty.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/builtins/ssh/ShellCommand.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/style/StyleBundle.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/terminal/impl/jna/win/JnaWinConsoleWriter.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/terminal/impl/jansi/win/JansiWinConsoleWriter.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/style/StyleBundleInvocationHandler.java
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* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/console/Printer.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/console/impl/SystemHighlighter.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/builtins/Source.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/builtins/Commands.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/console/impl/SystemRegistryImpl.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/builtins/Less.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/console/impl/Builtins.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/reader/impl/LineReaderImpl.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/builtins/SyntaxHighlighter.java
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*
 /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/builtins/telnet/TelnetIO.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/builtins/telnet/ConnectionData.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-

jar/org/jline/builtins/telnet/PortListener.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/builtins/telnet/ConnectionEvent.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/builtins/telnet/Connection.java
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*
 /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/builtins/telnet/ConnectionListener.java
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#
class = org.jline.terminal.impl.exec.ExecTerminalProvider

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* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/terminal/Attributes.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/utils/ShutdownHooks.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/reader/UserInterruptException.java

* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/utils/DiffHelper.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/terminal/impl/jna/win/WindowsAnsiWriter.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/utils/AttributedString.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/reader/impl/completer/AggregateCompleter.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/utils/OSUtils.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/reader/Binding.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/terminal/MouseEvent.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/terminal/impl/MouseSupport.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/reader/Widget.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/terminal/spi/Pty.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/utils/package-info.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/reader/package-info.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/terminal/impl/NativeSignalHandler.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/utils/ClosedException.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/reader/Reference.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/terminal/impl/package-info.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/reader/impl/completer/package-info.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/reader/impl/completer/EnumCompleter.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/terminal/impl/ExecPty.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/reader/impl/completer/NullCompleter.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/reader/Macro.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/terminal/Cursor.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/terminal/impl/AbstractPosixTerminal.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/reader/Expander.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/reader/impl/DefaultExpander.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/utils/InputStreamReader.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/utils/Levenshtein.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/keymap/KeyMap.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/utils/WCWidth.java

* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/reader/impl/UndoTree.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/terminal/impl/CursorSupport.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/reader/impl/history/package-info.java
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#

auto_left_margin, bw, bw
auto_right_margin, am, am
back_color_erase, bce, ut
can_change, ccc, cc
ceol_standout_glitch, xhp, xs
col_addr_glitch, xhpa, YA
cpi_changes_res, cpix, YF
cr_cancels_micro_mode, crxm, YB
dest_tabs_magic_smso, xt, xt
eat_newline_glitch, xenl, xn
erase_overstrike, eo, eo
generic_type, gn, gn
hard_copy, hc, hc
hard_cursor, chts, HC
has_meta_key, km, km
has_print_wheel, daisy, YC
has_status_line, hs, hs
hue_lightness_saturation, hls, hl
insert_null_glitch, in, in
lpi_changes_res, lpix, YG
memory_above, da, da
memory_below, db, db
move_insert_mode, mir, mi
move_standout_mode, msgr, ms
needs_xon_xoff, nxon, nx
no_esc_ctlc, xsb, xb
no_pad_char, npc,
 NP
non_dest_scroll_region, ndscr, ND
non_rev_rmcup, nrrmc, NR
over_strike, os, os

prtr_silent, mc5i, 5i
row_addr_glitch, xvpa, YD
semi_auto_right_margin, sam, YE
status_line_esc_ok, eslok, es
tilde_glitch, hz, hz
transparent_underline, ul, ul
xon_xoff, xon, xo
columns, cols, co
init_tabs, it, it
label_height, lh, lh
label_width, lw, lw
lines, lines, li
lines_of_memory, lm, lm
magic_cookie_glitch, xmc, sg
max_attributes, ma, ma
max_colors, colors, Co
max_pairs, pairs, pa
maximum_windows, wnum, MW
no_color_video, ncv, NC
num_labels, nlab, Nl
padding_baud_rate, pb, pb
virtual_terminal, vt, vt
width_status_line, wsl, ws
bit_image_entwining, bitwin, Yo
bit_image_type, bitype, Yp
buffer_capacity, bufsz, Ya
buttons, btns, BT
dot_horz_spacing, spinh, Yc
dot_vert_spacing, spinv, Yb
max_micro_address, maddr, Yd
max_micro_jump, mjump, Ye
micro_col_size, mcs, Yf
micro_line_size, mls, Yg
number_of_pins, npins, Yh
output_res_char, orc, Yi
output_res_horz_inch, orhi, Yk
output_res_line, orl, Yj
output_res_vert_inch,
orvi, Yl
print_rate, cps, Ym
wide_char_size, widcs, Yn
acs_chars, acsc, ac
back_tab, cbt, bt
bell, bel, bl
carriage_return, cr, cr
change_char_pitch, cpi, ZA
change_line_pitch, lpi, ZB
change_res_horz, chr, ZC

change_res_vert, cvr, ZD
change_scroll_region, csr, cs
char_padding, rmp, rP
clear_all_tabs, tbc, ct
clear_margins, mgc, MC
clear_screen, clear, cl
clr_bol, el1, cb
clr_eol, el, ce
clr_eos, ed, cd
column_address, hpa, ch
command_character, cmdch, CC
create_window, cwin, CW
cursor_address, cup, cm
cursor_down, cud1, do
cursor_home, home, ho
cursor_invisible, civis, vi
cursor_left, cub1, le
cursor_mem_address, mrcup, CM
cursor_normal, cnorm, ve
cursor_right, cuf1, nd
cursor_to_ll, ll, ll
cursor_up, cuu1, up
cursor_visible, cvvis, vs
define_char, defc, ZE
delete_character, dch1, dc
delete_line, dl1, dl
dial_phone, dial, DI
dis_status_line, dsl, ds
display_clock, dclk, DK
down_half_line, hd, hd
ena_acs, enacs, eA
enter_alt_charset_mode, smacs, as
enter_am_mode, smam,
SA
enter_blink_mode, blink, mb
enter_bold_mode, bold, md
enter_ca_mode, smcup, ti
enter_delete_mode, smdc, dm
enter_dim_mode, dim, mh
enter_doublewide_mode, swidm, ZF
enter_draft_quality, sdrfq, ZG
enter_insert_mode, smir, im
enter_italics_mode, sitm, ZH
enter_leftward_mode, slm, ZI
enter_micro_mode, smicm, ZJ
enter_near_letter_quality, snlq, ZK
enter_normal_quality, snrmq, ZL
enter_protected_mode, prot, mp

enter_reverse_mode, rev, mr
enter_secure_mode, invis, mk
enter_shadow_mode, sshm, ZM
enter_standout_mode, smso, so
enter_subscript_mode, ssubm, ZN
enter_superscript_mode, ssupm, ZO
enter_underline_mode, smul, us
enter_upward_mode, sum, ZP
enter_xon_mode, smxon, SX
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exit_alt_charset_mode, rmacs, ae
exit_am_mode, rmam, RA
exit_attribute_mode, sgr0, me
exit_ca_mode, rmcup, te
exit_delete_mode, rmdc, ed
exit_doublewide_mode, rwidm, ZQ
exit_insert_mode, rmir, ei
exit_italics_mode, ritm, ZR
exit_leftward_mode, rlm, ZS
exit_micro_mode, rmicm, ZT
exit_shadow_mode, rshm,
ZU
exit_standout_mode, rmso, se
exit_subscript_mode, rsubm, ZV
exit_superscript_mode, rsupm, ZW
exit_underline_mode, rmul, ue
exit_upward_mode, rum, ZX
exit_xon_mode, rmxon, RX
fixed_pause, pause, PA
flash_hook, hook, fh
flash_screen, flash, vb
form_feed, ff, ff
from_status_line, fsl, fs
goto_window, wingo, WG
hangup, hup, HU
init_1string, is1, i1
init_2string, is2, is
init_3string, is3, i3
init_file, if, if
init_prog, iprog, iP
initialize_color, initc, Ic
initialize_pair, initp, Ip
insert_character, ich1, ic
insert_line, il1, al
insert_padding, ip, ip
key_a1, ka1, K1
key_a3, ka3, K3
key_b2, kb2, K2

key_backspace, kbs, kb
key_beg, kbeg, @1
key_btab, kcbt, kB
key_c1, kc1, K4
key_c3, kc3, K5
key_cancel, kcan, @2
key_catab, ktbc, ka
key_clear, kclr, kC
key_close, kclo, @3
key_command, kcmd, @4
key_copy, kcpy, @5
key_create, kcrt, @6
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key_dc, kdch1, kD
key_dl, kdl1, kL
key_down, kcud1, kd
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key_enter, kent, @8
key_eol, kel, kE
key_eos,
ked, kS
key_exit, kext, @9
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key_f17, kf17, F7
key_f18, kf18, F8
key_f19, kf19, F9
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key_f21, kf21, FB
key_f22, kf22, FC
key_f23, kf23, FD
key_f24, kf24, FE
key_f25, kf25, FF
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key_f54, kf54, Fi
key_f55, kf55, Fj
key_f56, kf56, Fk
key_f57, kf57, Fl
key_f58, kf58,
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key_f6, kf6, k6
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key_f63, kf63, Fr
key_f7, kf7, k7
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key_f9, kf9, k9
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key_help, khlp, %1
key_home, khome, kh
key_ic, kich1, kI
key_il, kil1, kA
key_left, kcub1, kl
key_ll, kll, kH
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key_message, kmsg, %3
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key_npage, knp, kN
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key_options, kopt, %7
key_ppage, kpp, kP
key_previous, kprv, %8
key_print, kprt, %9
key_redo, krdo, %0
key_reference, kref, &1
key_refresh, krfr, &2
key_replace, krpl, &3
key_restart, krst, &4
key_resume, kres, &5
key_right, kcuf1, kr
key_save, ksav, &6
key_sbeg, kBEG, &9
key_scancel, kCAN, &0
key_scommand, kCMD, *1
key_scopy, kCPY, *2
key_screate, kCRT, *3
key_sdc, kDC, *4
key_sdl, kDL, *5
key_select, kslt, *6
key_send, kEND, *7
key_seol, kEOL, *8
key_sexit, kEXT, *9
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key_sfind, kFND, *0
key_shelp, kHLP, #1
key_shome, kHOM, #2
key_sic, kIC, #3
key_sleft, kLFT, #4
key_smessage,
kMSG, %a
key_smove, kMOV, %b
key_snext, kNXT, %c
key_soptions, kOPT, %d
key_sprevious, kPRV, %e
key_sprint, kPRT, %f
key_sr, kri, kR
key_sredo, kRDO, %g
key_sreplace, kRPL, %h
key_sright, kRIT, %i
key_srsume, kRES, %j
key_ssave, kSAV, !1
key_ssuspend, kSPD, !2

key_stab, khts, kT
key_sundo, kUND, !3
key_suspend, kspd, &7
key_undo, kund, &8
key_up, kcuu1, ku
keypad_local, rmkx, ke
keypad_xmit, smkx, ks
lab_f0, lf0, l0
lab_f1, lf1, l1
lab_f10, lf10, la
lab_f2, lf2, l2
lab_f3, lf3, l3
lab_f4, lf4, l4
lab_f5, lf5, l5
lab_f6, lf6, l6
lab_f7, lf7, l7
lab_f8, lf8, l8
lab_f9, lf9, l9
label_format, fln, Lf
label_off, rmln, LF
label_on, smln, LO
meta_off, rmm, mo
meta_on, smm, mm
micro_column_address, mhpa, ZY
micro_down, mcud1, ZZ
micro_left, mcub1, Za
micro_right, mcuf1, Zb
micro_row_address, mvpa, Zc
micro_up, mcuu1, Zd
newline, nel, nw
order_of_pins, porder, Ze
orig_colors, oc, oc
orig_pair, op, op
pad_char, pad, pc
parm_dch, dch, DC
parm_delete_line, dl, DL
parm_down_cursor, cud, DO
parm_down_micro,
mcud, Zf
parm_ich, ich, IC
parm_index, indn, SF
parm_insert_line, il, AL
parm_left_cursor, cub, LE
parm_left_micro, mcub, Zg
parm_right_cursor, cuf, RI
parm_right_micro, mcuf, Zh
parm_rindex, rin, SR
parm_up_cursor, cuu, UP

parm_up_micro, mcuu, Zi
pkey_key, pfkey, pk
pkey_local, pfloc, pl
pkey_xmit, pfx, px
plab_norm, pln, pn
print_screen, mc0, ps
prtr_non, mc5p, pO
prtr_off, mc4, pf
prtr_on, mc5, po
pulse, pulse, PU
quick_dial, qdial, QD
remove_clock, rmclk, RC
repeat_char, rep, rp
req_for_input, rfi, RF
reset_1string, rs1, r1
reset_2string, rs2, r2
reset_3string, rs3, r3
reset_file, rf, rf
restore_cursor, rc, rc
row_address, vpa, cv
save_cursor, sc, sc
scroll_forward, ind, sf
scroll_reverse, ri, sr
select_char_set, scs, Zj
set_attributes, sgr, sa
set_background, setb, Sb
set_bottom_margin, smgb, Zk
set_bottom_margin_parm, smgbp, Zl
set_clock, sclk, SC
set_color_pair, scp, sp
set_foreground, setf, Sf
set_left_margin, smgl, ML
set_left_margin_parm, smglp, Zm
set_right_margin,
smgr, MR
set_right_margin_parm, smgrp, Zn
set_tab, hts, st
set_top_margin, smgt, Zo
set_top_margin_parm, smgtp, Zp
set_window, wind, wi
start_bit_image, sbim, Zq
start_char_set_def, scsd, Zr
stop_bit_image, rbim, Zs
stop_char_set_def, rcsd, Zt
subscript_characters, subcs, Zu
superscript_characters, supcs, Zv
tab, ht, ta
these_cause_cr, docr, Zw

to_status_line, tsl, ts
tone, tone, TO
underline_char, uc, uc
up_half_line, hu, hu
user0, u0, u0
user1, u1, u1
user2, u2, u2
user3, u3, u3
user4, u4, u4
user5, u5, u5
user6, u6, u6
user7, u7, u7
user8, u8, u8
user9, u9, u9
wait_tone, wait, WA
xoff_character, xoffc, XF
xon_character, xonc, XN
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bit_image_repeat, birep, Xy
char_set_names, csnm, Zy
code_set_init, csin, ci
color_names, colornm, Yw
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end_bit_image_region, endbi, Yy
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smpch, S2
enter_scancode_mode, smsc, S4
exit_pc_charset_mode, rmpch, S3
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get_mouse, getm, Gm
key_mouse, kmous, Km
mouse_info, minfo, Mi
pc_term_options, pctrm, S6
pkey_plab, pfxl, xl
req_mouse_pos, reqmp, RQ
scancode_escape, scesc, S7
set0_des_seq, s0ds, s0
set1_des_seq, s1ds, s1
set2_des_seq, s2ds, s2
set3_des_seq, s3ds, s3
set_a_background, setab, AB
set_a_foreground, setaf, AF
set_color_band, setcolor, Yz

set_lr_margin, smglr, ML
set_page_length, slines, YZ
set_tb_margin, smgtb, MT
enter_horizontal_hl_mode, ehhlm, Xh
enter_left_hl_mode, elhlm, Xl
enter_low_hl_mode, elohlm, Xo
enter_right_hl_mode, erhlm, Xr
enter_top_hl_mode, ethlm, Xt
enter_vertical_hl_mode, evhlm, Xv
set_a_attributes, sgr1, sA
set_pglen_inch, slength, sL

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#
class = org.jline.terminal.impl.jna.JnaTerminalProvider

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* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/style/StyleExpression.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/utils/NonBlockingInputStream.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/utils/NonBlocking.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/utils/Curses.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/keymap/BindingReader.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/utils/NonBlockingReaderImpl.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/terminal/impl/ExternalTerminal.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/style/StyleSource.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/utils/StyleResolver.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/terminal/impl/jna/win/Kernel32.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/terminal/impl/PosixSysTerminal.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/terminal/impl/PosixPtyTerminal.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/utils/AttributedStringBuilder.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/reader/Completer.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/reader/MaskingCallback.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/utils/NonBlockingReader.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/reader/CompletingParsedLine.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/builtins/InputRC.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/utils/Colors.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/utils/NonBlockingInputStreamImpl.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/terminal/Size.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/style/StyleFactory.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/reader/impl/completer/FileNameCompleter.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/utils/Timeout.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/reader/ParsedLine.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/terminal/Terminal.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/terminal/impl/LineDisciplineTerminal.java

* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/reader/History.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/terminal/impl/DumbTerminal.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/style/Styler.java
* /opt/cola/permits/1881382372_1704719110.3418307/0/jline-3-22-0-sources-8-jar/org/jline/builtins/NfaMatcher.java

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1.3422 github.com/nats-io/jwt/v2 2.5.2

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 *
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 *
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* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/app/PlayerThreadListener.java
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options {
  MULTI=true;
  STATIC=false;
}

PARSER_BEGIN(AnimTimeParser)

package com.kitfox.svg.animation.parser;

import com.kitfox.svg.SVGConst;
import com.kitfox.svg.animation.TimeBase;
import com.kitfox.svg.animation.TimeCompound;
import com.kitfox.svg.animation.TimeDiscrete;
import com.kitfox.svg.animation.TimeIndefinite;
import com.kitfox.svg.animation.TimeLookup;
import com.kitfox.svg.animation.TimeSum;
import
 java.io.StringReader;
import java.util.ArrayList;
import java.util.logging.Level;
import java.util.logging.Logger;
```

```
public class AnimTimeParser
{
  /**
   * Test the parser
   */
  public static void main(String args[]) throws ParseException
  {
//        AnimTimeParser parser = new AnimTimeParser(System.in);
      StringReader reader;

      reader = new StringReader("1:30 + 5ms");
      AnimTimeParser parser = new AnimTimeParser(reader);
      TimeBase tc;

      tc = parser.Expr();
      System.err.println("AnimTimeParser eval to " + tc.evalTime());

      reader = new StringReader("19");
      parser.ReInit(reader);
      tc = parser.Expr();
      System.err.println("AnimTimeParser eval to " + tc.evalTime());
  }

}

PARSER_END(AnimTimeParser)




/**
* Tokens
*/

SKIP : /* WHITE SPACE */
{
 " "
| "\t"
| "\n"
| "\r"
| "\f"
}

TOKEN :
{
 < #LETTER: [ "a"-"z", "A"-"Z" ] >
|
 < #DIGIT: [ "0"-"9"] >
```

```
|
 <
 INTEGER: (<DIGIT>)+ >
|
 < FLOAT: (["+", "-"])? (((<DIGIT>)* "." (<DIGIT>)+) | ((<DIGIT>)+)) (["E", "e"] (["+", "-"])? (<DIGIT>)+)? >
|
 < INDEFINITE: "indefinite" >
|
 < MOUSE_OVER: "mouseover" >
|
 < WHEN_NOT_ACTIVE: "whenNotActive" >
|
 < UNITS: "ms" | "s" | "min" | "h" >
|
 < IDENTIFIER: <LETTER> (<LETTER>|<DIGIT>|"_"|"-")* >

}









/**
* Expression structure
*/


TimeBase Expr() :
{
  TimeBase term;
  ArrayList list = new ArrayList();
}
{
  ( term = Sum()
      {
         list.add(term);
      }
  )?
  ( LOOKAHEAD(2) ";" term = Sum()
      {
         list.add(term);
      }
  ) *
  (";")?

  {
```

```
      switch (list.size())
      {
         case 0:
            return new TimeIndefinite();
         case 1:
            return (TimeBase)list.get(0);
         default:
            return new TimeCompound(list);
      }
   }
}

TimeBase Sum() :
{
   Token t = null;
   TimeBase t1;
   TimeBase t2 = null;
}
{
   t1=Term()
 ( (t="+" | t="-") t2 = Term() )?
      {
         if (t2 == null) return t1;

         if (t.image.equals("-"))
         {
            return new TimeSum(t1, t2, false);
         }
         else
         {
            return new TimeSum(t1, t2, true);
         }
      }
}


TimeBase Term() :
{
   TimeBase base;
}
{
   base=IndefiniteTime()
      { return base; }
   | base=LiteralTime()
      { return base; }
   | base=LookupTime()
      { return base; }
   | base=EventTime()
```

```
      { return base; }
}

TimeIndefinite IndefiniteTime() :
{}
{
  <INDEFINITE>
  {
     return new TimeIndefinite();
  }
}

TimeDiscrete EventTime() :
{}
{
  (<MOUSE_OVER> | <WHEN_NOT_ACTIVE>)
     {
        //For now, map all events to the zero time
        return new TimeDiscrete(0);
     }
}

TimeDiscrete LiteralTime() :
{
  double t1, t2, t3 = Double.NaN, value;
  Token t;
}
{
  t1=Number()
     {
        value = t1;
      }
  (

  (":" t2=Number() (":" t3=Number())?
     {
        //Return clock time format (convert to seconds)
        if (Double.isNaN(t3))
        {
           value = t1 * 60 + t2;
        }
        else
        {
           value = t1 * 3600 + t2 * 60 + t3;
        }
     }
  )
```

```
  |

  (t=<UNITS>
     {
        //Return units format (convert to seconds)
        if (t.image.equals("ms")) value = t1 / 1000;
        if (t.image.equals("min")) value = t1 * 60;
        if (t.image.equals("h")) value = t1 * 3600;
     }
  )
  )?
  {
     return new TimeDiscrete(value);
  }
}


TimeLookup LookupTime() :
{
  double paramNum = 0.0;
  Token node, event;
}
{
  node=<IDENTIFIER> "." event=<IDENTIFIER> (paramNum=ParamList())?
  {
     return new TimeLookup(null, node.image, event.image, "" + paramNum);
  }
}

double ParamList() :
{
  double num;
}
{
  "(" num=Number() ")"

  {
     return num;
  }
}

double Number() :
{
  Token t;
}
{
  t=<FLOAT>
  {
```

```
      try {
         return Double.parseDouble(t.image);
      }
      catch (Exception e) {
         Logger.getLogger(SVGConst.SVG_LOGGER).log(Level.WARNING,
            "Could not parse double '" + t.image + "'", e);
      }

      return 0.0;
   }
   | t=<INTEGER>
   {
      try {
         return Double.parseDouble(t.image);
      }
      catch (Exception e) {
         Logger.getLogger(SVGConst.SVG_LOGGER).log(Level.WARNING,
            "Could not parse double '" + t.image + "'", e);
      }

      return 0.0;
   }
}

int Integer() :
{
   Token t;
}
{
   t=<INTEGER>
   {
      try {
         return Integer.parseInt(t.image);
      }
      catch (Exception e) {
         Logger.getLogger(SVGConst.SVG_LOGGER).log(Level.WARNING,
            "Could not parse int '" + t.image + "'", e);
      }

      return
 0;
   }
}
```

Found in path(s):
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* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/util/Base64InputStream.java
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* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/SVGParseException.java
* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/SVGElementException.java
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* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/Text.java
* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/Stop.java
* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/A.java
* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/Tspan.java
* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/Symbol.java
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* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/composite/AdobeComposite.java
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* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/xml/cpx/CPXTest.java
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Found in path(s):
* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/app/SVGPlayer.java
* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/app/SVGViewer.java

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Found in path(s):
* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/PatternSVG.java
* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/Gradient.java

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* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/composite/AdobeCompositeContext.java
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* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/animation/AnimationElement.java
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Found in path(s):
* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/SVGLoaderHelper.java
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* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/animation/TrackBase.java
* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/animation/TrackManager.java
* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/animation/TrackDouble.java
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* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/animation/TimeDiscrete.java
* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/animation/TimeLookup.java
*
 /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/animation/TimeIndefinite.java
* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/animation/TimeSum.java
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* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/xml/cpx/CPXOutputStream.java
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* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/Title.java
* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/Desc.java
* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/Style.java
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Found in path(s):
* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/app/PlayerThread.java
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* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/app/VersionDialog.java
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* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/animation/AnimateColorIface.java
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* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/app/beans/SVGPanel.java
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* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/ImageSVG.java
* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/Glyph.java
* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/Hkern.java
*
 /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/Font.java
* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/FontFace.java
* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/MissingGlyph.java
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* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/animation/TrackColor.java
* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/animation/TrackMotion.java
* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/animation/TrackTransform.java
*
/opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/animation/TrackPath.java
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* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/xml/NumberWithUnits.java
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* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/Ellipse.java
* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/Circle.java
* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/Line.java
* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/Rect.java
* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/Polygon.java
* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/Polyline.java
* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/Path.java
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* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/util/TextBuilder.java
* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/util/FontSystem.java
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* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/pathcmd/QuadraticSmooth.java
* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/pathcmd/Vertical.java

*
/opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/pathcmd/Terminal.java
* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/pathcmd/Arc.java
* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/pathcmd/Horizontal.java
* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/pathcmd/MoveTo.java
* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/pathcmd/CubicSmooth.java
* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/pathcmd/Cubic.java
* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/pathcmd/LineTo.java
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Found in path(s):
* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-

jar/com/kitfox/svg/Marker.java
* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/app/data/HandlerFactory.java
* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/app/data/Handler.java
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* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/app/PlayerDialog.java

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* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/TransformableElement.java
* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/RenderableElement.java
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* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/SVGElement.java
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* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/animation/AnimateColor.java
* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/animation/AnimateMotion.java
* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/animation/Animate.java
*
 /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/animation/AnimateBase.java
* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/animation/SetSmil.java
* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/animation/AnimateTransform.java
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* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/animation/Bezier.java
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* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/app/ant/SVGToImageAntTask.java
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* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/LinearGradient.java
* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/Use.java
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* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/xml/StyleAttribute.java
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* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/xml/WritableXMLElement.java
* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/xml/ReadableXMLElement.java
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* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/app/beans/ProportionalLayoutPanel.java
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* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/FilterEffects.java
* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/FeSpotLight.java

* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/FePointLight.java
*
 /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/FeLight.java
* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/FeDistantLight.java
* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/Filter.java
* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/FillElement.java
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```

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* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/com/kitfox/svg/animation/AnimationTimeEval.java
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* /opt/cola/permits/1883235763_1704947755.6162236/0/svgsalamander-1-1-3-sources-jar/META-INF/maven/guru.nidi.com.kitfox/svgSalamander/pom.xml

1.3429 github.com/nalbury/promql-cli 0.0.0-20221231172002-4f3fd58d5186

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1.3430 prometheus-client 1.18.0

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1.3431 gcompat 1.1.0-r4

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1.3433 libalgorithm-merge-perl 0.08-5

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NAME
Algorithm::Merge - Three-way merge and diff

SYNOPSIS
use Algorithm::Merge qw(merge diff3 traverse_sequences3);

@merged = merge(\@ancestor, \@a, \@b, {

```
            CONFLICT => sub { }
        });

@merged = merge(\@ancestor, \@a, \@b, {
            CONFLICT => sub { }
        }, $key_generation_function);

$merged = merge(\@ancestor, \@a, \@b, {
            CONFLICT => sub { }
        });

$merged = merge(\@ancestor, \@a, \@b, {
            CONFLICT => sub { }
        }, $key_generation_function);

@diff   = diff3(\@ancestor, \@a, \@b);

@diff   = diff3(\@ancestor, \@a, \@b, $key_generation_function);

$diff   = diff3(\@ancestor, \@a, \@b);

$diff   = diff3(\@ancestor, \@a, \@b, $key_generation_function);

@trav   = traverse_sequences3(\@ancestor, \@a, \@b, {
            # callbacks

       });

@trav   = traverse_sequences3(\@ancestor, \@a, \@b, {
            # callbacks
        }, $key_generation_function);

$trav   = traverse_sequences3(\@ancestor, \@a, \@b, {
            # callbacks
        });

$trav   = traverse_sequences3(\@ancestor, \@a, \@b, {
            # callbacks
        }, $key_generation_function);
```

USAGE

This module complements Algorithm::Diff by providing three-way merge and diff functions.

In this documentation, the first list to "diff3", "merge", and "traverse_sequences3" is called the `original' list. The second list is the `left' list. The third list is the `right' list.

The optional key generation arguments are the same as in
Algorithm::Diff. See Algorithm::Diff for more information.

diff3

Given references to three lists of items, "diff3" performs a three-way
difference.

This function returns an array of operations describing how the left
and
right lists differ from the original list. In scalar context, this
function returns a reference to such an array.

Perhaps an example would be useful.

Given the following three lists,

```
original: a b c   e f   h i   k
    left: a b   d e f g   i j k
   right: a b c d e     h i j k

   merge: a b   d e   g   i j k
```

we have the following result from diff3:

```
[ 'u', 'a',   'a',   'a' ],
[ 'u', 'b',   'b',   'b' ],
[ 'l', 'c',   undef, 'c' ],
[ 'o', undef, 'd',   'd' ],
[ 'u', 'e',   'e',   'e' ],
[ 'r', 'f',   'f',   undef ],
[ 'o', 'h',   'g',   'h' ],
[ 'u', 'i',   'i',   'i' ],
[ 'o', undef, 'j',   'j' ],
[ 'u', 'k',   'k',   'k' ]
```

The first element in each row is the array with the difference:

```
c - conflict (no two are the same)
l - left is different
o - original is different
r - right is different
u - unchanged
```

The next three elements are the lists
from the original, left, and right
arrays respectively that the row refers to (in the synopsis, these are
@ancestor, @a, and @b, respectively).

merge

Given references to three lists of items, "merge" performs a three-way merge. The "merge" function uses the "diff3" function to do most of the work.

The only callback currently used is "CONFLICT" which should be a reference to a subroutine that accepts two array references. The first array reference is to a list of elements from the left list. The second array reference is to a list of elements from the right list. This callback should return a list of elements to place in the merged list in place of the conflict.

The default "CONFLICT" callback returns the following:

```
q{<!-- ------ START CONFLICT ------ -->},
(@left),
q{<!-- ---------------------------- -->},
(@right),
q{<!-- ------  END  CONFLICT ------ -->},
```

traverse_sequences3

This is the workhorse function that goes through the three sequences and calls the callback functions.

The following callbacks are supported.

NO_CHANGE

This is called if all three sequences have the same element at the current position. The arguments are the current positions within each sequence, the first argument being the current position within the first sequence.

A_DIFF

This is called if the first sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the first sequence is not in either of the other two sequences.

If two arguments, then there is no element in the first sequence that corresponds to the elements at the given positions in the second and third sequences.

If three arguments, then the element at the given position in the first sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding

elements.

B_DIFF

This is called if the second sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the second sequence is not in either of the other two sequences.

If two arguments, then there is no element in the second sequence that corresponds to the elements at the given positions in the first and third sequences.

If three arguments, then the element at the given position in the second sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

C_DIFF

This is called if the third sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the third sequence is not in either of the other two sequences.

If two arguments, then there is no element in the third sequence that corresponds to the elements at the given positions in the first and second sequences.

If three arguments, then the element at the given position in the third sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

CONFLICT

This is called if all three sequences have different elements at the current position. The three arguments are the current positions within each sequence.

BUGS

Most assuredly there are bugs. If a pattern similar to the above example does not work, send it to <jsmith@cpan.org> or report it on <http://rt.cpan.org/>, the CPAN bug tracker.

Algorithm::Diff's implementation of "traverse_sequences" may not be

symmetric with respect to the input sequences if the second and third sequence are of different lengths. Because of this, "traverse_sequences3" will calculate the diffs of the second and third sequences as passed and swapped. If the differences are not the same, it will issue an `Algorithm::Diff::diff is not symmetric for second and third sequences...' warning. It will try to handle this, but there may be some cases where it can't.

SEE ALSO

Algorithm::Diff.

AUTHOR

James G. Smith, <jsmith@cpan.org>

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```
#
# For testing:
#
sub main::diag {
   warn join("", @_) , "\n";
}

print join(" ", merge(
#print Data::Dumper -> Dump([
#    merge(
#    #[qw(a b c d       h i j)], # ancestor
#    #[qw(a b c d   f   h i j)], # left
#    #[qw(a b c   e   g      )], # right
   [qw(0 1 2 3 4 7 9 b)],
   [qw(0 6       8 a b)],
   [qw(0 1 2 3 5 8 a b)],
##
   {
      CONFLICT => sub ($$) { (
         q{<}, @{$_[0]}, q{|}, @{$_[1]}, q{>}
      ) },
   },
)), "\n";
```

```
#)]), "\n";
#print join(" ", @{
#    [qw(0 1 @ < 3 | # > 6)]
#  }), "\n";

1;
__END__


1;

__END__

=head1 NAME

Algorithm::Merge - Three-way merge and diff

=head1 SYNOPSIS

use Algorithm::Merge qw(merge diff3 traverse_sequences3);

@merged = merge(\@ancestor, \@a, \@b, {
            CONFLICT => sub { }
        });

@merged = merge(\@ancestor, \@a, \@b, {
            CONFLICT => sub { }
        }, $key_generation_function);

$merged = merge(\@ancestor,
 \@a, \@b, {
            CONFLICT => sub { }
        });

$merged = merge(\@ancestor, \@a, \@b, {
            CONFLICT => sub { }
        }, $key_generation_function);

@diff   = diff3(\@ancestor, \@a, \@b);

@diff   = diff3(\@ancestor, \@a, \@b, $key_generation_function);

$diff   = diff3(\@ancestor, \@a, \@b);

$diff   = diff3(\@ancestor, \@a, \@b, $key_generation_function);

@trav   = traverse_sequences3(\@ancestor, \@a, \@b, {
            # callbacks
```

```
        });

@trav   = traverse_sequences3(\@ancestor, \@a, \@b, {
            # callbacks
        }, $key_generation_function);

$trav   = traverse_sequences3(\@ancestor, \@a, \@b, {
            # callbacks
        });

$trav   = traverse_sequences3(\@ancestor, \@a, \@b, {
            # callbacks
        }, $key_generation_function);
```

=head1 USAGE

This module complements L<Algorithm::Diff|Algorithm::Diff> by
providing three-way merge and diff functions.

In this documentation,
 the first list to C<diff3>, C<merge>, and
C<traverse_sequences3> is
called the `original' list.  The second list is the `left' list. The
third list is the `right' list.

The optional key generation arguments are the same as in
L<Algorithm::Diff|Algorithm::Diff>. See L<Algorithm::Diff> for more
information.

=head2 diff3

Given references to three lists of items, C<diff3> performs a
three-way difference.

This function returns an array of operations describing how the
left and right lists differ from the original list. In scalar
context, this function returns a reference to such an array.

Perhaps an example would be useful.

Given the following three lists,

```
 original: a b c   e f   h i   k
     left: a b   d e f g   i j k
    right: a b c d e     h i j k

    merge: a b   d e   g   i j k
```

we have the following result from diff3:

```
[ 'u', 'a',   'a',   'a' ],
[ 'u', 'b',   'b',   'b' ],
[ 'l', 'c',   undef, 'c' ],
[ 'o', undef, 'd',   'd' ],
[ 'u', 'e',   'e',
   'e' ],
[ 'r', 'f',   'f',   undef ],
[ 'o', 'h',   'g',   'h' ],
[ 'u', 'i',   'i',   'i' ],
[ 'o', undef, 'j',   'j' ],
[ 'u', 'k',   'k',   'k' ]
```

The first element in each row is the array with the difference:

c - conflict (no two are the same)
l - left is different
o - original is different
r - right is different
u - unchanged

The next three elements are the lists from the original, left,
and right arrays respectively that the row refers to (in the synopsis,
these are C<@ancestor>, C<@a>, and C<@b>, respectively).

=head2 merge

Given references to three lists of items, C<merge> performs a three-way
merge. The C<merge> function uses the C<diff3> function to do most of
the work.

The only callback currently used is C<CONFLICT> which should be a
reference to a subroutine that accepts two array references. The
first array reference is to a list of elements from the left list.
The second array reference is to a list of elements from the right list.
This callback
 should return a list of elements to place in the merged
list in place of the conflict.

The default C<CONFLICT> callback returns the following:

```
q{<!-- ------ START CONFLICT ------ -->},
(@left),
q{<!-- ---------------------------- -->},
(@right),
q{<!-- ------  END  CONFLICT ------ -->},
```

=head2 traverse_sequences3

This is the workhorse function that goes through the three sequences and calls the callback functions.

The following callbacks are supported.

=over 4

=item NO_CHANGE

This is called if all three sequences have the same element at the current position. The arguments are the current positions within each sequence, the first argument being the current position within the first sequence.

=item A_DIFF

This is called if the first sequence is different than the other two sequences at the current position.
This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the first sequence is not
 in either of the other two sequences.

If two arguments, then there is no element in the first sequence that corresponds to the elements at the given positions in the second and third sequences.

If three arguments, then the element at the given position in the first sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

=item B_DIFF

This is called if the second sequence is different than the other two sequences at the current position.
This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the second sequence is not in either of the other two sequences.

If two arguments, then there is no element in the second sequence that corresponds to the elements at the given positions in the first and third sequences.

If three arguments, then the element at the given position in the second sequence is different than the corresponding
element in the other two
sequences, but the other two sequences have corresponding elements.

=item C_DIFF

This is called if the third sequence is different than the other two sequences at the current position.
This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the third sequence is not in either of the other two sequences.

If two arguments, then there is no element in the third sequence that corresponds to the elements at the given positions in the first and second sequences.

If three arguments, then the element at the given position in the third sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

=item CONFLICT

This is called if all three sequences have different elements at the current position. The three arguments are the current positions within each sequence.

=back 4

=head1 BUGS

Most assuredly
there are bugs. If a pattern similar to the above
example does not work, send it to <jsmith@cpan.org> or report it on <http://rt.cpan.org/>, the CPAN bug tracker.

L<Algorithm::Diff|Algorithm::Diff>'s implementation of C<traverse_sequences> may not be symmetric with respect to the input sequences if the second and third sequence are of different lengths. Because of this, C<traverse_sequences3> will calculate the diffs of the second and third sequences as passed and swapped. If the differences are not the same, it will issue an `Algorithm::Diff::diff is not symmetric for second and third sequences...' warning. It will try to handle this, but there may be some cases where it can't.

=head1 SEE ALSO

L<Algorithm::Diff>.

=head1 AUTHOR

James G. Smith, <jsmith@cpan.org>

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1.3434 swagger-ui 4.18.1

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1.3441 kubernetes-apiserver 0.29.0

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1.3442 checker-qual 3.41.0

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1.3444 log4j-slf4j-impl 2.21.1

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1.3445 slf4j-impl 2.21.1

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1.3450 github.com/grafana/saml 0.4.15-0.20231025143828-a6c0e9b86a4c

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1.3451 grafana-saml 0.4.15-0.20231025143828-a6c0e9b86a4c

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1.3452 grafana-pyroscope-api 0.3.0

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package spec

import (
 "encoding/json"

 "github.com/go-openapi/swag"
)
```

```
// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 LicenseProps
 VendorExtensible
}

// LicenseProps holds the properties of a License object
type LicenseProps struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}

// UnmarshalJSON
 hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
 if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
  return err
 }
 return json.Unmarshal(data, &l.VendorExtensible)
}

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
 b1, err := json.Marshal(l.LicenseProps)
 if err != nil {
  return nil, err
 }
 b2, err := json.Marshal(l.VendorExtensible)
 if err != nil {
  return nil, err
 }
 return swag.ConcatJSON(b1, b2), nil
}
```

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import (
 "encoding/json"
 "testing"

 "github.com/stretchr/testify/assert"
 "github.com/stretchr/testify/require"
)

var license = License{
 LicenseProps:     LicenseProps{Name: "the name", URL: "the url"},
 VendorExtensible: VendorExtensible{Extensions: map[string]interface{}{"x-license": "custom term"}}}

const licenseJSON = `{
 "name": "the name",
 "url": "the url",
 "x-license": "custom
 term"
}`

func TestIntegrationLicense(t *testing.T) {

 // const licenseYAML = "name: the name\nurl: the url\n"

 b, err := json.MarshalIndent(license, "", "\t")
 require.NoError(t, err)
```

```
assert.Equal(t, licenseJSON, string(b))

actual := License{}
err = json.Unmarshal([]byte(licenseJSON), &actual)
require.NoError(t, err)
assert.EqualValues(t, license, actual)
}
```

1.3457 githubcomgoopenapijsonreference 0.20.4

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localtime.go, localtime_test.go:

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Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.
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1.3463 urfave-cli 2.27.1

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Found in path(s):
* /opt/cola/permits/1890517445_1713419274.7050972/0/cgroups-tar/cgroups.txt

1.3466 font-liberation-sans-narrow 1.07.6-r2

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1.3467 font-liberation 2.1.5-r2

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```
# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=6
pkgdesc="A library for high-performance 2D graphics"
url="https://www.levien.com/libart/"
arch="all"
options="!check"  # No test suite.
license="LGPL-2.0-or-later"
```

```
subpackages="$pkgname-dev"
source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2
 "

builddir="$srcdir"/libart_lgpl-$pkgver

prepare() {
 update_config_sub
 default_prepare
}

build() {
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr
 make
}

package() {
 make DESTDIR="$pkgdir" install
}

sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e7
6654309e001aee9bace727b5b4c8589405256a3c020  libart_lgpl-2.3.21.tar.bz2"
# Contributor: Maxim Karasev <begs@disroot.org>
# Maintainer: Maxim Karasev <begs@disroot.org>
pkgname=bsd-games
pkgver=3.2
pkgrel=0
pkgdesc="traditional text mode games from BSD"
url="https://github.com/msharov/bsd-games"
arch="all"
license="BSD-3-Clause"
makedepends="ncurses-dev coreutils" # configure causes busybox expr error
subpackages="$pkgname-doc"
source="https://github.com/msharov/bsd-games/archive/v$pkgver/bsd-games-$pkgver.tar.gz"
options="!check" # no tests

build() {
 # some GNU autoconf options are ignored, but it works
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr \
  --sysconfdir=/etc \
  --mandir=/usr/share/man \
  --localstatedir=/var/lib # it really shouldn't be in /var
```

```
 make
}

package() {
 make DESTDIR="$pkgdir" install
}

sha512sums="
cf5f5a9e5d215ee553486580f9a7dfc9801d254a2806172df201dfc42ecbb05326db7bc25b7624eb8a8e541ad61ec319d
258687609bddae2bc07edcbade2291a  bsd-games-3.2.tar.gz
"
```

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```
# Automatically generated by apkbuild-cpan, template 1
# Contributor: Valery Kartel <valery.kartel@gmail.com>
# Maintainer: Valery Kartel <valery.kartel@gmail.com>
pkgname=perl-bsd-resource
_pkgreal=BSD-Resource
pkgver=1.2911
pkgrel=6
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="https://metacpan.org/release/BSD-Resource"
arch="all"
license="GPL-1.0-or-later OR Artistic-1.0-Perl"
makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/J/JH/JHI/$_pkgreal-$pkgver.tar.gz"

builddir="$srcdir/$_pkgreal-$pkgver"

prepare() {
 default_prepare

 export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
 PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
 export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
 make
}
```

```
check() {
 make test
}

package() {
 make DESTDIR="$pkgdir" install
 find "$pkgdir" \( -name perllocal.pod -o -name .packlist \) -delete
}

sha512sums="d0032d41c7c0468ed1c6d8f57b885f6cb97a5039d754c8cb60b2067daedaf53bd15fb6561a3d0f828df16
dfa5417f663b8065ba65f4fea16dc9262728b3b6b85
  BSD-Resource-1.2911.tar.gz"
# Contributor: Carlo Landmeter <clandmeter@alpinelinux.org>
# Maintainer: Kevin Daudt <kdaudt@alpinelinux.org>
pkgname=spdx-licenses
pkgver=3.16
pkgrel=0
pkgdesc="Various data formats for the SPDX License List"
url="https://spdx.org/"
arch="noarch"
options="!check" # no test suite
license="CC-BY-3.0"
source="license-list-data-$pkgver.tar.gz::https://github.com/spdx/license-list-data/archive/v$pkgver.tar.gz"
builddir="$srcdir/license-list-data-$pkgver"
subpackages="$pkgname-list"

_types="html json rdfa rdfnt rdfturtle rdfxml template text"

for type in $_types; do
 subpackages="$subpackages $pkgname-$type:_subpkg"
done

package() {
 mkdir -p "$pkgdir"
}

_subpkg() {
 local type=${subpkgname/$pkgname-/}
 pkgdesc="$pkgdesc ($type)"
 install_if="$pkgname"
 mkdir -p "$subpkgdir"/usr/share/spdx
 cp -r "$builddir"/$type "$subpkgdir"/usr/share/spdx/
}

list() {
 pkgdesc="$pkgdesc (licence list)"
 mkdir -p "$subpkgdir"/usr/share/spdx
```

```
 local i; for i in "$builddir"/text/*.txt; do
  local license=${i##*/}
  echo
 ${license%.*} >> "$subpkgdir"/usr/share/spdx/license.lst
 done
}

sha512sums="
1bfdb250bcd36d30f8406e12cfbfc033743e2a323fdf5c5ca869954d997d420b377c56ca3138b533a7353ce01a492f215
dcfa1be4f1558da7dac3a090227ab46  license-list-data-3.16.tar.gz
"
```

1.3468 font-freefont 20120503-r4

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1.3469 x-oauth2 0.16.0

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1.3470 component-base 0.29.0

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1.3472 properties 1.8.7

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1.3473 coreos-semver 0.3.1

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that,

in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be
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This option is useful when you wish to copy part of the code of

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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1.3484 logr 1.3.0

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```
Package: logr
Title: Creates Log Files
Version: 1.3.0
Authors@R: c(
  person(given = "David",
         family = "Bosak",
         role = c("aut", "cre"),
         email = "dbosak01@gmail.com"),
  person("Rikard", "Isaksson", role = "ctb"))
Description: Contains functions to help create log files.  The
  package aims to overcome the difficulty of the base R sink() command.  The
  log_print() function will print to both the console and the file log,
  without interfering in other write operations.
License: CC0
Encoding: UTF-8
URL: https://logr.r-sassy.org
BugReports: https://github.com/dbosak01/logr/issues
Depends: R (>= 3.4.0)
Suggests:
  knitr,
  rmarkdown,
  testthat,
  tidylog,
  dplyr,
  covr
Imports: withr,
       utils,
       this.path
VignetteBuilder: knitr
Roxygen: list(markdown = TRUE)
RoxygenNote: 7.1.2
```

Found in path(s):
* /opt/cola/permits/1892506801_1706095861.09647/0/logr-1-3-0-4-zip/logr-1.3.0/DESCRIPTION
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/*
 Source: https://github.com/algolia/docsearch/

License: MIT
*/

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* /opt/cola/permits/1892506801_1706095861.09647/0/logr-1-3-0-4-zip/logr-1.3.0/docs/docsearch.css
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* Bootstrap Table of Contents v0.4.1 (http://afeld.github.io/bootstrap-toc/)
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* /opt/cola/permits/1892506801_1706095861.09647/0/logr-1-3-0-4-zip/logr-1.3.0/docs/bootstrap-toc.js
* /opt/cola/permits/1892506801_1706095861.09647/0/logr-1-3-0-4-zip/logr-1.3.0/docs/bootstrap-toc.css

1.3485 azure-sdk-for-go 68.0.0+incompatible

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1.3486 datadog-go 5.3.0

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1.3487 golang-lru 2.0.7

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1.3492 mergo 0.3.16

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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

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1.3494 common-junit3 3.2.5

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* /opt/cola/permits/1893157690_1706136058.5769122/0/flyway-core-9-21-0-sources-jar/org/flywaydb/core/internal/command/package-info.java
* /opt/cola/permits/1893157690_1706136058.5769122/0/flyway-core-9-21-0-sources-jar/org/flywaydb/core/internal/database/derby/DerbySchema.java
* /opt/cola/permits/1893157690_1706136058.5769122/0/flyway-core-9-21-0-sources-jar/org/flywaydb/core/internal/database/informix/package-info.java
* /opt/cola/permits/1893157690_1706136058.5769122/0/flyway-core-9-21-0-sources-jar/org/flywaydb/core/extensibility/Plugin.java
* /opt/cola/permits/1893157690_1706136058.5769122/0/flyway-core-9-21-0-sources-jar/org/flywaydb/core/internal/scanner/ClasspathClassScanner.java
* /opt/cola/permits/1893157690_1706136058.5769122/0/flyway-core-9-21-0-sources-jar/org/flywaydb/core/internal/database/hsqldb/HSQLDBTable.java
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Found in path(s):
* /opt/cola/permits/1893157690_1706136058.5769122/0/flyway-core-9-21-0-sources-jar/assets/report/upgradeTabs/changes.html
* /opt/cola/permits/1893157690_1706136058.5769122/0/flyway-core-9-21-0-sources-jar/assets/report/holdingTabs/migrate.html
* /opt/cola/permits/1893157690_1706136058.5769122/0/flyway-core-9-21-0-sources-jar/assets/report/infoBlobs/info.html
* /opt/cola/permits/1893157690_1706136058.5769122/0/flyway-core-9-21-0-sources-jar/assets/report/holdingTabs/changes.html
* /opt/cola/permits/1893157690_1706136058.5769122/0/flyway-core-9-21-0-sources-jar/assets/report/upgradeTabs/dryrun.html
* /opt/cola/permits/1893157690_1706136058.5769122/0/flyway-core-9-21-0-sources-jar/assets/report/infoBlobs/dryrun.html
* /opt/cola/permits/1893157690_1706136058.5769122/0/flyway-core-9-21-0-sources-jar/assets/report/footer.html
* /opt/cola/permits/1893157690_1706136058.5769122/0/flyway-core-9-21-0-sources-jar/assets/report/holdingTabs/drift.html
* /opt/cola/permits/1893157690_1706136058.5769122/0/flyway-core-9-21-0-sources-jar/assets/report/reportScript.html
* /opt/cola/permits/1893157690_1706136058.5769122/0/flyway-core-9-21-0-sources-jar/assets/report/upgradeTabs/drift.html
* /opt/cola/permits/1893157690_1706136058.5769122/0/flyway-core-9-21-0-sources-jar/assets/report/holdingTabs/code.html
* /opt/cola/permits/1893157690_1706136058.5769122/0/flyway-core-9-21-0-sources-jar/assets/report/holdingTabs/dryrun.html
* /opt/cola/permits/1893157690_1706136058.5769122/0/flyway-core-9-21-0-sources-jar/assets/report/infoBlobs/migrate.html
* /opt/cola/permits/1893157690_1706136058.5769122/0/flyway-core-9-21-0-sources-jar/assets/report/infoBlobs/changes.html
* /opt/cola/permits/1893157690_1706136058.5769122/0/flyway-core-9-21-0-sources-jar/META-INF/maven/org.flywaydb/flyway-core/pom.xml
* /opt/cola/permits/1893157690_1706136058.5769122/0/flyway-core-9-21-0-sources-jar/assets/report/infoBlobs/drift.html
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*/

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* /opt/cola/permits/1893157690_1706136058.5769122/0/flyway-core-9-21-0-sources-jar/assets/report/report.css

1.3497 common-java5 3.2.5

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1.3498 surefire-logger-api 3.2.5

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1.3499 surefire-junit4 3.2.5

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1.3500 surefire-api 3.2.5

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1.3514 go-connections 0.5.0

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Local-Date: Fri, 06 Jun 2003 13:18:52 -0400
Date: Fri, 6 Jun 2003 10:18:52 -0700
From: Juan Gomez <juang@us.ibm.com>
To: Stephen Frost <sfrost@debian.org>
X-Mailer: Lotus Notes Release 5.0.2a (Intl) 23 November 1999
Subject: Re: Juan C. Gomez license in OpenLDAP Source

Stephen,

"There is no restriction on modifications and derived works" on the work I
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Local-Date: Thu, 05 Jun 2003 16:53:32 -0400
Date: Thu, 5 Jun 2003 16:53:32 -0400 (EDT)
From: Mark Adamson <adamson@andrew.cmu.edu>
To: Stephen Frost <sfrost@debian.org>

Subject: Re: Mark Adamson license in OpenLDAP source

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---

* To: Stephen Frost <sfrost@snowman.net>
* Subject: Re: OpenLDAP Licenseing issues
* From: "Kurt D. Zeilenga" <Kurt@OpenLDAP.org>
* Date: Wed, 28 May 2003 10:55:44 -0700
* Cc: Steve Langasek <vorlon@netexpress.net>,debian-legal@lists.debian.org, openldap-devel@OpenLDAP.org
* In-reply-to: <20030528162613.GB8524@ns.snowman.net>
* Message-id: <5.2.0.9.0.20030528094229.02924780@127.0.0.1>
* Old-return-path: <Kurt@OpenLDAP.org>

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Regards, Kurt

1.3521 container-storage-interface-spec 1.9.0

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//
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 Name string `json:"name,omitempty"`
 URL string `json:"url,omitempty"`
}
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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1.3523 arptables 1.8.10

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1.3524 color 1.16.0

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1.3525 icu 74.2-r0

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---
layout: default
title: Legalities
parent: Release & Milestone Tasks
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See [svn changeset r39632](https://github.com/unicode-org/icu/commit/0001f6c5e92f6f3a8d66c7dbc47cc24df7633a71)
for
an example; there should be only two files to update.

```
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## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
```

```
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation
 rules
%.$(STATIC_O): $(srcdir)/%.c
 $(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
 $(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
 $(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
 $(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<


## Dependency rules
%.d: $(srcdir)/%.c
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.c) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.cc) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
 $(RM) $@ && ln -s ${<F} $@
```

```
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
 $(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

##  Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup
```

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File: aclocal.m4 (only for ICU4C)
Section: pkg.m4 - Macros to locate and utilise pkg-config.

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## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
```

```
STATIC_O = ao

## Compilation
 rules
%.$(STATIC_O): $(srcdir)/%.c
 $(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
 $(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
 $(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
 $(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<


## Dependency rules
%.d: $(srcdir)/%.c
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.c) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.cc) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
 $(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
 $(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

##  Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup
```

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File: aclocal.m4 (only for ICU4C)

Section: pkg.m4 - Macros to locate and utilise pkg-config.

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## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation
 rules
%.$(STATIC_O): $(srcdir)/%.c
 $(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
 $(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
 $(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
 $(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<
```

```
## Dependency rules
%.d: $(srcdir)/%.c
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.c) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.cc) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
 $(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
 $(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

##  Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup
```

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File: aclocal.m4 (only for ICU4C)
Section: pkg.m4 - Macros to locate and utilise pkg-config.

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1.3528 javassist 3.30.2-GA

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```
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```

Found in path(s):
* /opt/cola/permits/1899850942_1706849972.4595945/0/javassist-3-30-2-ga-sources-jar/javassist/convert/TransformCall.java
* /opt/cola/permits/1899850942_1706849972.4595945/0/javassist-3-30-2-ga-sources-jar/javassist/expr/MethodCall.java
*

/opt/cola/permits/1899850942_1706849972.4595945/0/javassist-3-30-2-ga-sources-jar/javassist/bytecode/NestHostAttribute.java
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* /opt/cola/permits/1899850942_1706849972.4595945/0/javassist-3-30-2-ga-sources-jar/javassist/compiler/Parser.java
* /opt/cola/permits/1899850942_1706849972.4595945/0/javassist-3-30-2-ga-sources-jar/javassist/convert/TransformNew.java
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* /opt/cola/permits/1899850942_1706849972.4595945/0/javassist-3-30-2-ga-sources-jar/javassist/bytecode/ClassFileWriter.java
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* /opt/cola/permits/1899850942_1706849972.4595945/0/javassist-3-30-2-ga-sources-jar/javassist/tools/reflect/Compiler.java
* /opt/cola/permits/1899850942_1706849972.4595945/0/javassist-3-30-2-ga-sources-jar/javassist/bytecode/InstructionPrinter.java
* /opt/cola/permits/1899850942_1706849972.4595945/0/javassist-3-30-2-ga-sources-jar/javassist/bytecode/ByteStream.java
* /opt/cola/permits/1899850942_1706849972.4595945/0/javassist-3-30-2-ga-sources-jar/javassist/bytecode/LocalVariableAttribute.java
* /opt/cola/permits/1899850942_1706849972.4595945/0/javassist-3-30-2-ga-sources-jar/javassist/bytecode/AccessFlag.java
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/opt/cola/permits/1899850942_1706849972.4595945/0/javassist-3-30-2-ga-sources-jar/javassist/bytecode/SourceFileAttribute.java
* /opt/cola/permits/1899850942_1706849972.4595945/0/javassist-3-30-2-ga-sources-jar/javassist/util/proxy/RuntimeSupport.java
* /opt/cola/permits/1899850942_1706849972.4595945/0/javassist-3-30-2-ga-sources-jar/javassist/bytecode/DuplicateMemberException.java
* /opt/cola/permits/1899850942_1706849972.4595945/0/javassist-3-30-2-ga-sources-jar/javassist/compiler/AccessorMaker.java
* /opt/cola/permits/1899850942_1706849972.4595945/0/javassist-3-30-2-ga-sources-jar/javassist/tools/reflect/CannotReflectException.java

* /opt/cola/permits/1899850942_1706849972.4595945/0/javassist-3-30-2-ga-sources-jar/javassist/bytecode/LongVector.java
* /opt/cola/permits/1899850942_1706849972.4595945/0/javassist-3-30-2-ga-sources-jar/javassist/bytecode/FieldInfo.java
* /opt/cola/permits/1899850942_1706849972.4595945/0/javassist-3-30-2-ga-sources-jar/javassist/compiler/ProceedHandler.java
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* /opt/cola/permits/1899850942_1706849972.4595945/0/javassist-3-30-2-ga-sources-jar/javassist/convert/TransformReadField.java
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* /opt/cola/permits/1899850942_1706849972.4595945/0/javassist-3-30-2-ga-sources-jar/javassist/tools/web/BadHttpRequest.java
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* /opt/cola/permits/1899850942_1706849972.4595945/0/javassist-3-30-2-ga-sources-jar/javassist/compiler/ast/DoubleConst.java
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* /opt/cola/permits/1899850942_1706849972.4595945/0/javassist-3-30-2-ga-sources-jar/javassist/tools/rmi/ObjectNotFoundException.java
* /opt/cola/permits/1899850942_1706849972.4595945/0/javassist-3-30-2-ga-sources-jar/javassist/ClassPool.java
* /opt/cola/permits/1899850942_1706849972.4595945/0/javassist-3-30-2-ga-sources-jar/javassist/CtBehavior.java
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* /opt/cola/permits/1899850942_1706849972.4595945/0/javassist-3-30-2-ga-sources-jar/javassist/compiler/ast/ASTList.java
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* /opt/cola/permits/1899850942_1706849972.4595945/0/javassist-3-30-2-ga-sources-jar/javassist/convert/Transformer.java
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* /opt/cola/permits/1899850942_1706849972.4595945/0/javassist-3-30-2-ga-sources-jar/javassist/compiler/ast/CastExpr.java
* /opt/cola/permits/1899850942_1706849972.4595945/0/javassist-3-30-2-ga-sources-jar/javassist/bytecode/analysis/Type.java
* /opt/cola/permits/1899850942_1706849972.4595945/0/javassist-3-30-2-ga-sources-jar/javassist/bytecode/annotation/AnnotationImpl.java
* /opt/cola/permits/1899850942_1706849972.4595945/0/javassist-3-30-2-ga-sources-jar/javassist/bytecode/CodeAnalyzer.java
* /opt/cola/permits/1899850942_1706849972.4595945/0/javassist-3-30-2-ga-sources-jar/javassist/compiler/KeywordTable.java
* /opt/cola/permits/1899850942_1706849972.4595945/0/javassist-3-30-2-ga-sources-jar/javassist/compiler/ast/CallExpr.java
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* /opt/cola/permits/1899850942_1706849972.4595945/0/javassist-3-30-2-ga-sources-jar/javassist/bytecode/annotation/IntegerMemberValue.java
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* /opt/cola/permits/1899850942_1706849972.4595945/0/javassist-3-30-2-ga-sources-jar/javassist/bytecode/annotation/FloatMemberValue.java
* /opt/cola/permits/1899850942_1706849972.4595945/0/javassist-3-30-2-ga-sources-jar/javassist/bytecode/annotation/MemberValue.java
* /opt/cola/permits/1899850942_1706849972.4595945/0/javassist-3-30-2-ga-sources-jar/javassist/bytecode/annotation/MemberValueVisitor.java

* /opt/cola/permits/1899850942_1706849972.4595945/0/javassist-3-30-2-ga-sources-jar/javassist/bytecode/annotation/StringMemberValue.java
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* /opt/cola/permits/1899850942_1706849972.4595945/0/javassist-3-30-2-ga-sources-jar/javassist/bytecode/annotation/EnumMemberValue.java
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* /opt/cola/permits/1899850942_1706849972.4595945/0/javassist-3-30-2-ga-sources-jar/javassist/bytecode/annotation/Annotation.java
* /opt/cola/permits/1899850942_1706849972.4595945/0/javassist-3-30-2-ga-sources-jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /opt/cola/permits/1899850942_1706849972.4595945/0/javassist-3-30-2-ga-sources-jar/javassist/bytecode/annotation/DoubleMemberValue.java

1.3529 openssl 3.0.13

1.3529.1 Available under license :

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/opt/cola/permits/1899965984_1707259742.364137/0/openssl-3-0-13-tar-1-gz/openssl-3.0.13.tar[1]: binary file matches

Found in path(s):
* /bin/grep

1.3530 properties 1.8.5

1.3530.1 Available under license :

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1.3531 datadog-go 4.8.2+incompatible

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1.3532 netns 0.0.0-20210104183010-2eb08e3e575f

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```
#!/usr/bin/env bash
# MIT licenses will each have a unique MD5 sum since they contain a unique copyright.
# This script will read the license file into memory, strip out the copyright, and then
# generate an MD5 that is not unique and can be matched against a known MIT MD5 sum.
set -e

calculate_md5_sum() {
 local FILE="$1"

 # Read the contents of the file into a variable
 local raw_license_text=$(<"$FILE")

 # Convert to lowercase
 local lowercase_license_text="${raw_license_text,,}"

 # Remove anything before the beginning of the license
 local stripped_license_text=$(awk '/permission is hereby granted,/{p=1} p' <<< "$lowercase_license_text")

 # Replace line breaks (Windows or Linux) with a single space
 local replaced_linebreaks=$(tr '\r\n' ' ' <<< "$stripped_license_text")

 # Replace multiple spaces with a single space
```

```
 local normalized_license_text=$(tr -s ' ' <<< "$replaced_linebreaks")

 # Strip away any non-printable, non-whitespace characters
 local clean_unprintable_license_text=$(tr
 -cd '[:print:][:space:]' <<< "$normalized_license_text")

 # Remove punctuation and special characters
 local clean_license_text=$(echo "$clean_unprintable_license_text" | sed 's/[^a-zA-Z ]//g')

 # Calculate the MD5 sum of the cleaned license text
 local MD5SUM=$(echo -n "$clean_license_text" | md5sum | awk '{print $1}')

 # Output the MD5 sum
 echo "$MD5SUM"
}

# Check if the FILE argument is provided
if [ -z "$1" ]; then
 echo "Please provide a FILE as an argument."
 exit 1
fi

# Invoke the function with the provided FILE argument
calculate_md5_sum "$1"
WEV @@ WEV[B  "1
x   ?"U@,5  @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV   @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B  "1
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1.3537 cpprest 2.10.18

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base64.cpp and base64.h

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Ren Nyffenegger rene.nyffenegger@adp-gmbh.ch

****** SHA1 Library (sha1/sha1.hpp) ******
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****** MD5 Library (common/md5.hpp) ******
md5.hpp is a reformulation of the md5.h and md5.c code from
http://www.opensource.apple.com/source/cups/cups-59/cups/md5.c to allow it to
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L. Peter Deutsch
ghost@aladdin.com

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1.3538 webjars-locator-core 0.55

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1.3539 stdlib go1.21.4

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1.3540 stdlib go1.20.10

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// Files we should ignore.
// Set of "modulePath filePath".
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 // We no longer need it (since we now accept both licenses), but it fails detection
 // so we have to ignore it.
 "gioui.org COPYING": true,
}
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package mat_test

import (
 "fmt"
 "log"

 "gonum.org/v1/gonum/mat"
)

func ExampleEigenSym() {
 a := mat.NewSymDense(2, []float64{
  7, 0.5,
  0.5, 1,
 })
 fmt.Printf("A = %v\n\n", mat.Formatted(a, mat.Prefix("    ")))

 var eigsym mat.EigenSym
 ok := eigsym.Factorize(a, true)
 if !ok {
  log.Fatal("Symmetric eigendecomposition failed")
 }
 fmt.Printf("Eigenvalues of A:\n%1.3f\n\n", eigsym.Values(nil))
```

```
 var ev mat.Dense
 eigsym.VectorsTo(&ev)
 fmt.Printf("Eigenvectors of A:\n%1.3f\n\n", mat.Formatted(&ev))

 // Output:
 // A =   7  0.5
 //     0.5    1
 //
 // Eigenvalues of A:
 // [0.959 7.041]
 //
 // Eigenvectors of A:
 //  0.082  -0.997
 // -0.997  -0.082
 //
}

func ExampleEigen() {
 a := mat.NewDense(2, 2, []float64{
  1, -1,
  1, 1,
 })
 fmt.Printf("A = %v\n\n", mat.Formatted(a, mat.Prefix("    ")))

 var eig mat.Eigen
 ok
 := eig.Factorize(a, mat.EigenLeft)
 if !ok {
  log.Fatal("Eigendecomposition failed")
 }
 fmt.Printf("Eigenvalues of A:\n%v\n", eig.Values(nil))

 // Output:
 // A =  1  -1
 //      1   1
 //
 // Eigenvalues of A:
 // [(1+1i) (1-1i)]
}
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package gonum

import (
 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
```

```
)

// Dorg2l generates an mn matrix Q with orthonormal columns which is defined
// as the last n columns of a product of k elementary reflectors of order m.
//  Q = H_{k-1} * ... * H_1 * H_0
// See Dgelqf for more information. It must be that m >= n >= k.
//
// tau contains the scalar reflectors computed by Dgeqlf. tau must have length
// at least k, and Dorg2l will panic otherwise.
//
// work contains temporary memory, and must have length at least n. Dorg2l will
// panic otherwise.
//
// Dorg2l is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dorg2l(m, n, k int, a []float64, lda int, tau, work []float64) {
 switch {
 case m < 0:
  panic(mLT0)
 case n < 0:
  panic(nLT0)
 case n > m:
  panic(nGTM)
 case k
 < 0:
  panic(kLT0)
 case k > n:
  panic(kGTN)
 case lda < max(1, n):
  panic(badLdA)
 }

 if n == 0 {
  return
 }

 switch {
 case len(a) < (m-1)*lda+n:
  panic(shortA)
 case len(tau) < k:
  panic(shortTau)
 case len(work) < n:
  panic(shortWork)
 }

 // Initialize columns 0:n-k to columns of the unit matrix.
 for j := 0; j < n-k; j++ {
  for l := 0; l < m; l++ {
   a[l*lda+j] = 0
```

```
  }
  a[(m-n+j)*lda+j] = 1
 }

 bi := blas64.Implementation()
 for i := 0; i < k; i++ {
  ii := n - k + i

  // Apply H_i to A[0:m-k+i, 0:n-k+i] from the left.
  a[(m-n+ii)*lda+ii] = 1
  impl.Dlarf(blas.Left, m-n+ii+1, ii, a[ii:], lda, tau[i], a, lda, work)
  bi.Dscal(m-n+ii, -tau[i], a[ii:], lda)
  a[(m-n+ii)*lda+ii] = 1 - tau[i]

  // Set A[m-k+i:m, n-k+i+1] to zero.
  for l := m - n + ii + 1; l < m; l++ {
   a[l*lda+ii] = 0
  }
 }
}
      SUBROUTINE XERROR(MESS,NMESS,L1,L2)
C
C     THIS IS A DUMMY XERROR ROUTINE TO PRINT ERROR MESSAGES WITH NMESS
C     CHARACTERS. L1 AND L2 ARE DUMMY PARAMETERS TO MAKE THIS CALL
C     COMPATIBLE WITH THE SLATEC XERROR ROUTINE. THIS IS A FORTRAN 77
C     ROUTINE.
C
     CHARACTER*(*) MESS
     NN=NMESS/70
     NR=NMESS-70*NN
     IF(NR.NE.0) NN=NN+1
     K=1
     PRINT 900
 900 FORMAT(/)
     DO 10 I=1,NN
       KMIN=MIN0(K+69,NMESS)
       PRINT *, MESS(K:KMIN)
       K=K+70
  10 CONTINUE
     PRINT 900
     RETURN
     END
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package distuv
```

```
import (
 "sort"
 "testing"

 "golang.org/x/exp/rand"
)

func TestBernouilli(t *testing.T) {
 src := rand.New(rand.NewSource(1))
 for i, dist := range []Bernoulli{
  {P: 0.5, Src: src},
  {P: 0.9, Src: src},
  {P: 0.2, Src: src},
 } {
  testBernouilli(t, dist, i)
 }
}

func testBernouilli(t *testing.T, dist Bernoulli, i int) {
 const (
  tol  = 1e-2
  n    = 3e6
  bins = 50
 )
 x := make([]float64, n)
 generateSamples(x, dist)
 sort.Float64s(x)

 checkMean(t, i, x, dist, tol)
 checkVarAndStd(t, i, x, dist, tol)
 checkEntropy(t, i, x, dist, tol)
 checkExKurtosis(t, i, x, dist, tol)
 checkSkewness(t, i, x, dist, tol)
 checkProbDiscrete(t, i, x, dist, tol)
}
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// Package parser provides generated internal parsing functions for DOT parsing.
package parser // import "gonum.org/v1/gonum/graph/formats/dot/internal/parser"
//** github.com/euphoria-io/heim@v0.0.0-20191219050951-978c921063e6 **//

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```

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// Package r2 provides 2D vectors and boxes and operations on them.
package r2 // import "gonum.org/v1/gonum/spatial/r2"
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```
package distuv

import (
 "sort"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/floats"
)

func TestGamma(t *testing.T) {
 // Values a comparison with scipy
 for _, test := range []struct {
  x, alpha, want float64
 }{
  {0.9, 0.1, 0.046986817861555757},
  {0.9, 0.01, 0.0045384353289090401},
  {0.45, 0.01, 0.014137035997241795},
 } {
  pdf := Gamma{Alpha: test.alpha, Beta: 1}.Prob(test.x)
```

```
 if !floats.EqualWithinAbsOrRel(pdf, test.want, 1e-10, 1e-10) {
  t.Errorf("Pdf mismatch. Got %v, want %v", pdf, test.want)
 }
}
src := rand.New(rand.NewSource(1))
for i, g := range []Gamma{

 {Alpha: 0.5, Beta: 0.8, Src: src},
 {Alpha: 0.9, Beta: 6, Src: src},
 {Alpha: 0.9, Beta: 500, Src: src},

 {Alpha: 1, Beta: 1, Src: src},

 {Alpha: 1.6, Beta: 0.4, Src: src},
 {Alpha: 2.6, Beta: 1.5, Src: src},
 {Alpha: 5.6, Beta:
0.5, Src: src},
 {Alpha: 30, Beta: 1.7, Src: src},
 {Alpha: 30.2, Beta: 1.7, Src: src},
} {
 testGamma(t, g, i)
}
}

func testGamma(t *testing.T, f Gamma, i int) {
// TODO(btracey): Replace this when Gamma implements FullDist.
const (
 tol  = 1e-2
 n    = 1e5
 bins = 50
)
x := make([]float64, n)
generateSamples(x, f)
sort.Float64s(x)

testRandLogProbContinuous(t, i, 0, x, f, tol, bins)
checkMean(t, i, x, f, tol)
checkVarAndStd(t, i, x, f, 2e-2)
checkExKurtosis(t, i, x, f, 2e-1)
checkProbContinuous(t, i, x, f, 1e-3)
checkQuantileCDFSurvival(t, i, x, f, 5e-2)
}
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package mathext
```

```
import "gonum.org/v1/gonum/mathext/internal/cephes"

// Zeta computes the Riemann zeta function of two arguments.
//  Zeta(x,q) = \sum_{k=0}^{\infty} (k+q)^{-x}
// Note that Zeta returns +Inf if x is 1 and will panic if x is less than 1,
// q is either zero or a negative integer, or q is negative and x is not an
// integer.
//
// See http://mathworld.wolfram.com/HurwitzZetaFunction.html
// or https://en.wikipedia.org/wiki/Multiple_zeta_function#Two_parameters_case
// for more detailed information.
func Zeta(x, q float64) float64 {
 return cephes.Zeta(x, q)
}
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package gonum

import "gonum.org/v1/gonum/lapack"

// Implementation is the native Go implementation of LAPACK routines. It
// is built on top of calls to the return of blas64.Implementation(), so while
// this code is in pure Go, the underlying BLAS implementation may not be.
type Implementation struct{}

var _ lapack.Float64 = Implementation{}

func min(a, b int) int {
 if a < b {
  return a
 }
 return b
}

func max(a, b int) int {
 if a > b {
  return a
 }
 return b
}

func abs(a int) int {
 if a < 0 {
  return -a
 }
 return a
```

```
}

const (
 // dlamchE is the machine epsilon. For IEEE this is 2^{-53}.
 dlamchE = 1.0 / (1 << 53)
 // TODO(kortschak) Replace this with 0x1p-53 when go1.12 is no
 // longer supported.

 // dlamchB is the radix of the machine (the base of the number system).
 dlamchB = 2

 // dlamchP is base * eps.
 dlamchP
 = dlamchB * dlamchE

 // dlamchS is the "safe minimum", that is, the lowest number such that
 // 1/dlamchS does not overflow, or also the smallest normal number.
 // For IEEE this is 2^{-1022}.
 dlamchS = 1.0 / (1 << 256) / (1 << 256) / (1 << 256) / (1 << 254)
 // TODO(kortschak) Replace this with 0x1p-1022 when go1.12 is no
 // longer supported.
)
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// Package distmat provides probability distributions over matrices.
package distmat // import "gonum.org/v1/gonum/stat/distmat"
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "fmt"
 "testing"
)

func TestCapacitanceFormat(t *testing.T) {
 for _, test := range []struct {
  value  Capacitance
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 F"},
```

```
  {1.23456789, "%.1v", "1 F"},
  {1.23456789, "%20.1v", "                 1 F"},
  {1.23456789, "%20v", "        1.23456789 F"},
  {1.23456789, "%1v", "1.23456789 F"},
  {1.23456789, "%#v", "unit.Capacitance(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Capacitance=1.23456789 F)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
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package encoding

import "gonum.org/v1/gonum/graph"

// Builder is a graph that can have user-defined nodes and edges added.
type Builder interface {
 graph.Graph
 graph.Builder
}

// MultiBuilder is a graph that can have user-defined nodes and edges added.
type MultiBuilder interface {
 graph.Multigraph
 graph.MultigraphBuilder
}

// AttributeSetter is implemented by types that can set an encoded graph
// attribute.
type AttributeSetter interface {
 SetAttribute(Attribute) error
}

// Attributer defines graph.Node or graph.Edge values that can
// specify graph attributes.
type Attributer interface {
 Attributes() []Attribute
}

// Attribute is an encoded key value attribute pair use in graph encoding.
type Attribute struct {
 Key, Value string
```

```
}
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// Package iterator provides node, edge and line iterators.
//
// The iterators provided satisfy the graph.Nodes, graph.Edges and
// graph.Lines interfaces.
package iterator
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package testlapack

import (
 "fmt"
 "math"
 "math/cmplx"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
 "gonum.org/v1/gonum/floats"
 "gonum.org/v1/gonum/lapack"
)

const (
 // dlamchE is the machine epsilon. For IEEE this is 2^{-53}.
 dlamchE = 1.0 / (1 << 53)
 dlamchB = 2
 dlamchP = dlamchB * dlamchE
 // dlamchS is the smallest normal number. For IEEE this is 2^{-1022}.
 dlamchS = 1.0 / (1 << 256) / (1 << 256) / (1 << 256) / (1 << 254)
)

func max(a, b int) int {
 if a > b {
  return a
 }
 return b
}

func min(a, b int) int {
 if a < b {
```

```
  return a
 }
 return b
}

// worklen describes how much workspace a test should use.
type worklen int

const (
 minimumWork worklen = iota
 mediumWork
 optimumWork
)

func (wl worklen) String() string {
 switch wl {
 case minimumWork:
  return
 "minimum"
 case mediumWork:
  return "medium"
 case optimumWork:
  return "optimum"
 }
 return ""
}

// nanSlice allocates a new slice of length n filled with NaN.
func nanSlice(n int) []float64 {
 s := make([]float64, n)
 for i := range s {
  s[i] = math.NaN()
 }
 return s
}

// randomSlice allocates a new slice of length n filled with random values.
func randomSlice(n int, rnd *rand.Rand) []float64 {
 s := make([]float64, n)
 for i := range s {
  s[i] = rnd.NormFloat64()
 }
 return s
}

// nanGeneral allocates a new rc general matrix filled with NaN values.
func nanGeneral(r, c, stride int) blas64.General {
 if r < 0 || c < 0 {
```

```
 panic("bad matrix size")
 }
 if r == 0 || c == 0 {
  return blas64.General{Stride: max(1, stride)}
 }
 if stride < c {
  panic("bad stride")
 }
 return blas64.General{
  Rows:   r,
  Cols:   c,
  Stride: stride,
  Data:   nanSlice((r-1)*stride + c),
 }
}

// randomGeneral allocates a new rc general matrix filled with random
// numbers. Out-of-range elements
 are filled with NaN values.
func randomGeneral(r, c, stride int, rnd *rand.Rand) blas64.General {
 ans := nanGeneral(r, c, stride)
 for i := 0; i < r; i++ {
  for j := 0; j < c; j++ {
   ans.Data[i*ans.Stride+j] = rnd.NormFloat64()
  }
 }
 return ans
}

// randomHessenberg allocates a new nn Hessenberg matrix filled with zeros
// under the first subdiagonal and with random numbers elsewhere. Out-of-range
// elements are filled with NaN values.
func randomHessenberg(n, stride int, rnd *rand.Rand) blas64.General {
 ans := nanGeneral(n, n, stride)
 for i := 0; i < n; i++ {
  for j := 0; j < i-1; j++ {
   ans.Data[i*ans.Stride+j] = 0
  }
  for j := max(0, i-1); j < n; j++ {
   ans.Data[i*ans.Stride+j] = rnd.NormFloat64()
  }
 }
 return ans
}

// randomSchurCanonical returns a random, general matrix in Schur canonical
// form, that is, block upper triangular with 11 and 22 diagonal blocks where
// each 22 diagonal block has its diagonal elements equal and its off-diagonal
```

```
// elements
 of opposite sign.
func randomSchurCanonical(n, stride int, rnd *rand.Rand) blas64.General {
 t := randomGeneral(n, n, stride, rnd)
 // Zero out the lower triangle.
 for i := 0; i < t.Rows; i++ {
  for j := 0; j < i; j++ {
   t.Data[i*t.Stride+j] = 0
  }
 }
 // Randomly create 22 diagonal blocks.
 for i := 0; i < t.Rows; {
  if i == t.Rows-1 || rnd.Float64() < 0.5 {
   // 11 block.
   i++
   continue
  }
  // 22 block.
  // Diagonal elements equal.
  t.Data[(i+1)*t.Stride+i+1] = t.Data[i*t.Stride+i]
  // Off-diagonal elements of opposite sign.
  c := rnd.NormFloat64()
  if math.Signbit(c) == math.Signbit(t.Data[i*t.Stride+i+1]) {
   c *= -1
  }
  t.Data[(i+1)*t.Stride+i] = c
  i += 2
 }
 return t
}

// blockedUpperTriGeneral returns a normal random, general matrix in the form
//
//            c-k-l  k    l
//  A =    k [  0   A12  A13 ] if r-k-l >= 0;
//         l [  0    0   A23 ]
//     r-k-l [  0    0    0  ]
//
//          c-k-l  k    l
//  A =  k [  0   A12  A13 ] if r-k-l < 0;
//
     r-k [  0    0   A23 ]
//
// where the kk matrix A12 and ll matrix is non-singular
// upper triangular. A23 is ll upper triangular if r-k-l >= 0,
// otherwise A23 is (r-k)l upper trapezoidal.
func blockedUpperTriGeneral(r, c, k, l, stride int, kblock bool, rnd *rand.Rand) blas64.General {
 t := l
```

```
 if kblock {
  t += k
 }
 ans := zeros(r, c, stride)
 for i := 0; i < min(r, t); i++ {
  var v float64
  for v == 0 {
   v = rnd.NormFloat64()
  }
  ans.Data[i*ans.Stride+i+(c-t)] = v
 }
 for i := 0; i < min(r, t); i++ {
  for j := i + (c - t) + 1; j < c; j++ {
   ans.Data[i*ans.Stride+j] = rnd.NormFloat64()
  }
 }
 return ans
}

// nanTriangular allocates a new rc triangular matrix filled with NaN values.
func nanTriangular(uplo blas.Uplo, n, stride int) blas64.Triangular {
 if n < 0 {
  panic("bad matrix size")
 }
 if n == 0 {
  return blas64.Triangular{
   Stride: max(1, stride),
   Uplo:   uplo,
   Diag:   blas.NonUnit,
  }
 }
 if stride < n {
  panic("bad stride")
 }
 return blas64.Triangular{
  N:
     n,
  Stride: stride,
  Data:   nanSlice((n-1)*stride + n),
  Uplo:   uplo,
  Diag:   blas.NonUnit,
 }
}

// generalOutsideAllNaN returns whether all out-of-range elements have NaN
// values.
func generalOutsideAllNaN(a blas64.General) bool {
 // Check after last column.
```

```
 for i := 0; i < a.Rows-1; i++ {
  for _, v := range a.Data[i*a.Stride+a.Cols : i*a.Stride+a.Stride] {
   if !math.IsNaN(v) {
    return false
   }
  }
 }
 // Check after last element.
 last := (a.Rows-1)*a.Stride + a.Cols
 if a.Rows == 0 || a.Cols == 0 {
  last = 0
 }
 for _, v := range a.Data[last:] {
  if !math.IsNaN(v) {
   return false
  }
 }
 return true
}

// triangularOutsideAllNaN returns whether all out-of-triangle elements have NaN
// values.
func triangularOutsideAllNaN(a blas64.Triangular) bool {
 if a.Uplo == blas.Upper {
  // Check below diagonal.
  for i := 0; i < a.N; i++ {
   for _, v := range a.Data[i*a.Stride : i*a.Stride+i] {
    if !math.IsNaN(v) {
     return false
    }
   }
  }
  //
 Check after last column.
  for i := 0; i < a.N-1; i++ {
   for _, v := range a.Data[i*a.Stride+a.N : i*a.Stride+a.Stride] {
    if !math.IsNaN(v) {
     return false
    }
   }
  }
 } else {
  // Check above diagonal.
  for i := 0; i < a.N-1; i++ {
   for _, v := range a.Data[i*a.Stride+i+1 : i*a.Stride+a.Stride] {
    if !math.IsNaN(v) {
     return false
    }
```

```
  }
 }
}
// Check after last element.
for _, v := range a.Data[max(0, a.N-1)*a.Stride+a.N:] {
 if !math.IsNaN(v) {
  return false
 }
}
return true
}

// transposeGeneral returns a new general matrix that is the transpose of the
// input. Nothing is done with data outside the {rows, cols} limit of the general.
func transposeGeneral(a blas64.General) blas64.General {
 ans := blas64.General{
  Rows:   a.Cols,
  Cols:   a.Rows,
  Stride: a.Rows,
  Data:   make([]float64, a.Cols*a.Rows),
 }
 for i := 0; i < a.Rows; i++ {
  for j := 0; j < a.Cols; j++ {
   ans.Data[j*ans.Stride+i] = a.Data[i*a.Stride+j]
  }
 }
 return
 ans
}

// columnNorms returns the column norms of a.
func columnNorms(m, n int, a []float64, lda int) []float64 {
 bi := blas64.Implementation()
 norms := make([]float64, n)
 for j := 0; j < n; j++ {
  norms[j] = bi.Dnrm2(m, a[j:], lda)
 }
 return norms
}

// extractVMat collects the single reflectors from a into a matrix.
func extractVMat(m, n int, a []float64, lda int, direct lapack.Direct, store lapack.StoreV) blas64.General {
 k := min(m, n)
 switch {
 default:
  panic("not implemented")
 case direct == lapack.Forward && store == lapack.ColumnWise:
  v := blas64.General{
```

```
  Rows:   m,
  Cols:   k,
  Stride: k,
  Data:   make([]float64, m*k),
 }
 for i := 0; i < k; i++ {
  for j := 0; j < i; j++ {
   v.Data[j*v.Stride+i] = 0
  }
  v.Data[i*v.Stride+i] = 1
  for j := i + 1; j < m; j++ {
   v.Data[j*v.Stride+i] = a[j*lda+i]
  }
 }
 return v
case direct == lapack.Forward && store == lapack.RowWise:
 v := blas64.General{
  Rows:   k,
  Cols:   n,
  Stride: n,
  Data:
  make([]float64, k*n),
 }
 for i := 0; i < k; i++ {
  for j := 0; j < i; j++ {
   v.Data[i*v.Stride+j] = 0
  }
  v.Data[i*v.Stride+i] = 1
  for j := i + 1; j < n; j++ {
   v.Data[i*v.Stride+j] = a[i*lda+j]
  }
 }
 return v
}
}

// constructBidiagonal constructs a bidiagonal matrix with the given diagonal
// and off-diagonal elements.
func constructBidiagonal(uplo blas.Uplo, n int, d, e []float64) blas64.General {
 bMat := blas64.General{
  Rows:   n,
  Cols:   n,
  Stride: n,
  Data:   make([]float64, n*n),
 }

 for i := 0; i < n-1; i++ {
  bMat.Data[i*bMat.Stride+i] = d[i]
```

```
 if uplo == blas.Upper {
  bMat.Data[i*bMat.Stride+i+1] = e[i]
 } else {
  bMat.Data[(i+1)*bMat.Stride+i] = e[i]
 }
}
bMat.Data[(n-1)*bMat.Stride+n-1] = d[n-1]
return bMat
}

// constructVMat transforms the v matrix based on the storage.
func constructVMat(vMat blas64.General, store lapack.StoreV, direct lapack.Direct) blas64.General {
 m := vMat.Rows
 k := vMat.Cols
 switch {
 default:
  panic("not
 implemented")
 case store == lapack.ColumnWise && direct == lapack.Forward:
  ldv := k
  v := make([]float64, m*k)
  for i := 0; i < m; i++ {
   for j := 0; j < k; j++ {
    if j > i {
     v[i*ldv+j] = 0
    } else if j == i {
     v[i*ldv+i] = 1
    } else {
     v[i*ldv+j] = vMat.Data[i*vMat.Stride+j]
    }
   }
  }
  return blas64.General{
   Rows:   m,
   Cols:   k,
   Stride: k,
   Data:   v,
  }
 case store == lapack.RowWise && direct == lapack.Forward:
  ldv := m
  v := make([]float64, m*k)
  for i := 0; i < m; i++ {
   for j := 0; j < k; j++ {
    if j > i {
     v[j*ldv+i] = 0
    } else if j == i {
     v[j*ldv+i] = 1
    } else {
```

```
    v[j*ldv+i] = vMat.Data[i*vMat.Stride+j]
   }
  }
 }
 return blas64.General{
  Rows:   k,
  Cols:   m,
  Stride: m,
  Data:   v,
 }
case store == lapack.ColumnWise && direct == lapack.Backward:
 rowsv := m
 ldv := k
 v := make([]float64, m*k)
 for i := 0; i < m; i++ {
  for j := 0; j < k; j++ {
   vrow := rowsv - i - 1
   vcol
:= k - j - 1
   if j > i {
    v[vrow*ldv+vcol] = 0
   } else if j == i {
    v[vrow*ldv+vcol] = 1
   } else {
    v[vrow*ldv+vcol] = vMat.Data[i*vMat.Stride+j]
   }
  }
 }
 return blas64.General{
  Rows:   rowsv,
  Cols:   ldv,
  Stride: ldv,
  Data:   v,
 }
case store == lapack.RowWise && direct == lapack.Backward:
 rowsv := k
 ldv := m
 v := make([]float64, m*k)
 for i := 0; i < m; i++ {
  for j := 0; j < k; j++ {
   vcol := ldv - i - 1
   vrow := k - j - 1
   if j > i {
    v[vrow*ldv+vcol] = 0
   } else if j == i {
    v[vrow*ldv+vcol] = 1
   } else {
    v[vrow*ldv+vcol] = vMat.Data[i*vMat.Stride+j]
```

```
    }
   }
  }
  return blas64.General{
   Rows:   rowsv,
   Cols:   ldv,
   Stride: ldv,
   Data:   v,
  }
 }
}

func constructH(tau []float64, v blas64.General, store lapack.StoreV, direct lapack.Direct) blas64.General {
 m := v.Rows
 k := v.Cols
 if store == lapack.RowWise {
  m, k = k, m
 }
 h := blas64.General{
  Rows:   m,
  Cols:   m,
  Stride:
 m,
  Data:   make([]float64, m*m),
 }
 for i := 0; i < m; i++ {
  h.Data[i*m+i] = 1
 }
 for i := 0; i < k; i++ {
  vecData := make([]float64, m)
  if store == lapack.ColumnWise {
   for j := 0; j < m; j++ {
    vecData[j] = v.Data[j*v.Cols+i]
   }
  } else {
   for j := 0; j < m; j++ {
    vecData[j] = v.Data[i*v.Cols+j]
   }
  }
  vec := blas64.Vector{
   Inc:  1,
   Data: vecData,
  }

  hi := blas64.General{
   Rows:   m,
   Cols:   m,
   Stride: m,
```

```
  Data:   make([]float64, m*m),
  }
  for i := 0; i < m; i++ {
   hi.Data[i*m+i] = 1
  }
  // hi = I - tau * v * v
  blas64.Ger(-tau[i], vec, vec, hi)

  hcopy := blas64.General{
   Rows:   m,
   Cols:   m,
   Stride: m,
   Data:   make([]float64, m*m),
  }
  copy(hcopy.Data, h.Data)
  if direct == lapack.Forward {
   // H = H * H_I in forward mode
   blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, hcopy, hi, 0, h)
  } else {
   // H = H_I * H in backward mode
   blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, hi, hcopy, 0, h)
  }
 }
 return
 h
}

// constructQ constructs the Q matrix from the result of dgeqrf and dgeqr2.
func constructQ(kind string, m, n int, a []float64, lda int, tau []float64) blas64.General {
 k := min(m, n)
 return constructQK(kind, m, n, k, a, lda, tau)
}

// constructQK constructs the Q matrix from the result of dgeqrf and dgeqr2 using
// the first k reflectors.
func constructQK(kind string, m, n, k int, a []float64, lda int, tau []float64) blas64.General {
 var sz int
 switch kind {
 case "QR":
  sz = m
 case "LQ", "RQ":
  sz = n
 }

 q := blas64.General{
  Rows:   sz,
  Cols:   sz,
  Stride: sz,
```

```
 Data:   make([]float64, sz*sz),
}
for i := 0; i < sz; i++ {
 q.Data[i*sz+i] = 1
}
qCopy := blas64.General{
 Rows:   q.Rows,
 Cols:   q.Cols,
 Stride: q.Stride,
 Data:   make([]float64, len(q.Data)),
}
for i := 0; i < k; i++ {
 h := blas64.General{
  Rows:   sz,
  Cols:   sz,
  Stride: sz,
  Data:   make([]float64, sz*sz),
 }
 for j := 0; j < sz; j++ {
  h.Data[j*sz+j] = 1
 }
 vVec :=
blas64.Vector{
  Inc:  1,
  Data: make([]float64, sz),
 }
 switch kind {
 case "QR":
  vVec.Data[i] = 1
  for j := i + 1; j < sz; j++ {
   vVec.Data[j] = a[lda*j+i]
  }
 case "LQ":
  vVec.Data[i] = 1
  for j := i + 1; j < sz; j++ {
   vVec.Data[j] = a[i*lda+j]
  }
 case "RQ":
  for j := 0; j < n-k+i; j++ {
   vVec.Data[j] = a[(m-k+i)*lda+j]
  }
  vVec.Data[n-k+i] = 1
 }
 blas64.Ger(-tau[i], vVec, vVec, h)
 copy(qCopy.Data, q.Data)
 // Multiply q by the new h.
 switch kind {
 case "QR", "RQ":
```

```
  blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, qCopy, h, 0, q)
 case "LQ":
  blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, h, qCopy, 0, q)
 }
}
return q
}

// checkBidiagonal checks the bidiagonal decomposition from dlabrd and dgebd2.
// The input to this function is the answer returned from the routines, stored
// in a, d, e, tauP, and tauQ. The data of original A matrix (before
// decomposition) is input in aCopy.
//
// checkBidiagonal constructs the V and U matrices, and
 from them constructs Q
// and P. Using these constructions, it checks that Q * A * P and checks that
// the result is bidiagonal.
func checkBidiagonal(t *testing.T, m, n, nb int, a []float64, lda int, d, e, tauP, tauQ, aCopy []float64) {
 // Check the answer.
 // Construct V and U.
 qMat := constructQPBidiagonal(lapack.ApplyQ, m, n, nb, a, lda, tauQ)
 pMat := constructQPBidiagonal(lapack.ApplyP, m, n, nb, a, lda, tauP)

 // Compute Q * A * P.
 aMat := blas64.General{
  Rows:   m,
  Cols:   n,
  Stride: lda,
  Data:   make([]float64, len(aCopy)),
 }
 copy(aMat.Data, aCopy)

 tmp1 := blas64.General{
  Rows:   m,
  Cols:   n,
  Stride: n,
  Data:   make([]float64, m*n),
 }
 blas64.Gemm(blas.Trans, blas.NoTrans, 1, qMat, aMat, 0, tmp1)
 tmp2 := blas64.General{
  Rows:   m,
  Cols:   n,
  Stride: n,
  Data:   make([]float64, m*n),
 }
 blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, tmp1, pMat, 0, tmp2)

 // Check that the first nb rows and cols of tm2 are upper bidiagonal
```

```
 // if m >= n, and lower
 bidiagonal otherwise.
 correctDiag := true
 matchD := true
 matchE := true
 for i := 0; i < m; i++ {
  for j := 0; j < n; j++ {
   if i >= nb && j >= nb {
    continue
   }
   v := tmp2.Data[i*tmp2.Stride+j]
   if i == j {
    if math.Abs(d[i]-v) > 1e-12 {
     matchD = false
    }
    continue
   }
   if m >= n && i == j-1 {
    if math.Abs(e[j-1]-v) > 1e-12 {
     matchE = false
    }
    continue
   }
   if m < n && i-1 == j {
    if math.Abs(e[i-1]-v) > 1e-12 {
     matchE = false
    }
    continue
   }
   if math.Abs(v) > 1e-12 {
    correctDiag = false
   }
  }
 }
 if !correctDiag {
  t.Errorf("Updated A not bi-diagonal")
 }
 if !matchD {
  fmt.Println("d = ", d)
  t.Errorf("D Mismatch")
 }
 if !matchE {
  t.Errorf("E mismatch")
 }
}

// constructQPBidiagonal constructs Q or P from the Bidiagonal decomposition
// computed by dlabrd and bgebd2.
```

```
func constructQPBidiagonal(vect lapack.ApplyOrtho, m, n, nb int, a []float64, lda int, tau []float64) blas64.General
{
 sz := n
 if vect
 == lapack.ApplyQ {
  sz = m
 }

 var ldv int
 var v blas64.General
 if vect == lapack.ApplyQ {
  ldv = nb
  v = blas64.General{
   Rows:   m,
   Cols:   nb,
   Stride: ldv,
   Data:   make([]float64, m*ldv),
  }
 } else {
  ldv = n
  v = blas64.General{
   Rows:   nb,
   Cols:   n,
   Stride: ldv,
   Data:   make([]float64, m*ldv),
  }
 }

 if vect == lapack.ApplyQ {
  if m >= n {
   for i := 0; i < m; i++ {
    for j := 0; j <= min(nb-1, i); j++ {
     if i == j {
      v.Data[i*ldv+j] = 1
      continue
     }
     v.Data[i*ldv+j] = a[i*lda+j]
    }
   }
  } else {
   for i := 1; i < m; i++ {
    for j := 0; j <= min(nb-1, i-1); j++ {
     if i-1 == j {
      v.Data[i*ldv+j] = 1
      continue
     }
     v.Data[i*ldv+j] = a[i*lda+j]
    }
```

```
  }
 }
} else {
 if m < n {
  for i := 0; i < nb; i++ {
   for j := i; j < n; j++ {
    if i == j {
     v.Data[i*ldv+j] = 1
     continue
    }
    v.Data[i*ldv+j] = a[i*lda+j]
   }
  }
 } else {
  for i := 0; i < nb; i++ {
   for
j := i + 1; j < n; j++ {
    if j-1 == i {
     v.Data[i*ldv+j] = 1
     continue
    }
    v.Data[i*ldv+j] = a[i*lda+j]
   }
  }
 }
}

// The variable name is a computation of Q, but the algorithm is mostly the
// same for computing P (just with different data).
qMat := blas64.General{
 Rows:   sz,
 Cols:   sz,
 Stride: sz,
 Data:   make([]float64, sz*sz),
}
hMat := blas64.General{
 Rows:   sz,
 Cols:   sz,
 Stride: sz,
 Data:   make([]float64, sz*sz),
}
// set Q to I
for i := 0; i < sz; i++ {
 qMat.Data[i*qMat.Stride+i] = 1
}
for i := 0; i < nb; i++ {
 qCopy := blas64.General{Rows: qMat.Rows, Cols: qMat.Cols, Stride: qMat.Stride, Data: make([]float64,
len(qMat.Data))}
```

```
 copy(qCopy.Data, qMat.Data)

 // Set g and h to I
 for i := 0; i < sz; i++ {
  for j := 0; j < sz; j++ {
   if i == j {
    hMat.Data[i*sz+j] = 1
   } else {
    hMat.Data[i*sz+j] = 0
   }
  }
 }
 var vi blas64.Vector
 // H -= tauQ[i] * v[i] * v[i]^t
 if vect == lapack.ApplyQ
 {
  vi = blas64.Vector{
   Inc:  v.Stride,
   Data: v.Data[i:],
  }
 } else {
  vi = blas64.Vector{
   Inc:  1,
   Data: v.Data[i*v.Stride:],
  }
 }
 blas64.Ger(-tau[i], vi, vi, hMat)
 // Q = Q * G[1]
 blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, qCopy, hMat, 0, qMat)
}
return qMat
}

// printRowise prints the matrix with one row per line. This is useful for debugging.
// If beyond is true, it prints beyond the final column to lda. If false, only
// the columns are printed.
func printRowise(a []float64, m, n, lda int, beyond bool) {
 for i := 0; i < m; i++ {
  end := n
  if beyond {
   end = lda
  }
  fmt.Println(a[i*lda : i*lda+end])
 }
}

// isOrthogonal returns whether a square matrix Q is orthogonal.
func isOrthogonal(q blas64.General) bool {
```

```
 n := q.Rows
 if n != q.Cols {
  panic("matrix not square")
 }
 // A real square matrix is orthogonal if and only if its rows form
 // an orthonormal basis of the Euclidean space R^n.
 const tol = 1e-13
 for i := 0; i < n; i++
 {
  nrm := blas64.Nrm2(blas64.Vector{N: n, Data: q.Data[i*q.Stride:], Inc: 1})
  if math.IsNaN(nrm) {
   return false
  }
  if math.Abs(nrm-1) > tol {
   return false
  }
  for j := i + 1; j < n; j++ {
   dot := blas64.Dot(blas64.Vector{N: n, Data: q.Data[i*q.Stride:], Inc: 1},
    blas64.Vector{N: n, Data: q.Data[j*q.Stride:], Inc: 1})
   if math.IsNaN(dot) {
    return false
   }
   if math.Abs(dot) > tol {
    return false
   }
  }
 }
 return true
}

// hasOrthonormalColumns returns whether the columns of Q are orthonormal.
func hasOrthonormalColumns(q blas64.General) bool {
 m, n := q.Rows, q.Cols
 if n > m {
  // Wide matrix cannot have all columns orthogonal.
  return false
 }
 ldq := q.Stride
 const tol = 1e-13
 for i := 0; i < n; i++ {
  nrm := blas64.Nrm2(blas64.Vector{N: m, Data: q.Data[i:], Inc: ldq})
  if math.IsNaN(nrm) {
   return false
  }
  if math.Abs(nrm-1) > tol {
   return false
  }
  for j := i + 1; j < n; j++ {
```

```
  dot := blas64.Dot(blas64.Vector{N: m, Data: q.Data[i:],
 Inc: ldq},
   blas64.Vector{N: m, Data: q.Data[j:], Inc: ldq})
  if math.IsNaN(dot) {
   return false
  }
  if math.Abs(dot) > tol {
   return false
  }
 }
}
return true
}

// hasOrthonormalRows returns whether the rows of Q are orthonormal.
func hasOrthonormalRows(q blas64.General) bool {
 m, n := q.Rows, q.Cols
 if m > n {
  // Tall matrix cannot have all rows orthogonal.
  return false
 }
 ldq := q.Stride
 const tol = 1e-13
 for i1 := 0; i1 < m; i1++ {
  nrm := blas64.Nrm2(blas64.Vector{N: n, Data: q.Data[i1*ldq:], Inc: 1})
  if math.IsNaN(nrm) {
   return false
  }
  if math.Abs(nrm-1) > tol {
   return false
  }
  for i2 := i1 + 1; i2 < m; i2++ {
   dot := blas64.Dot(
    blas64.Vector{N: n, Data: q.Data[i1*ldq:], Inc: 1},
    blas64.Vector{N: n, Data: q.Data[i2*ldq:], Inc: 1})
   if math.IsNaN(dot) {
    return false
   }
   if math.Abs(dot) > tol {
    return false
   }
  }
 }
 return true
}

// copyMatrix copies an mn matrix src of stride n into an mn matrix dst
```

```
 of stride ld.
func copyMatrix(m, n int, dst []float64, ld int, src []float64) {
 for i := 0; i < m; i++ {
  copy(dst[i*ld:i*ld+n], src[i*n:i*n+n])
 }
}

func copyGeneral(dst, src blas64.General) {
 r := min(dst.Rows, src.Rows)
 c := min(dst.Cols, src.Cols)
 for i := 0; i < r; i++ {
  copy(dst.Data[i*dst.Stride:i*dst.Stride+c], src.Data[i*src.Stride:i*src.Stride+c])
 }
}

// cloneGeneral allocates and returns an exact copy of the given general matrix.
func cloneGeneral(a blas64.General) blas64.General {
 c := a
 c.Data = make([]float64, len(a.Data))
 copy(c.Data, a.Data)
 return c
}

// equalApprox returns whether the matrices A and B of order n are approximately
// equal within given tolerance.
func equalApprox(m, n int, a []float64, lda int, b []float64, tol float64) bool {
 for i := 0; i < m; i++ {
  for j := 0; j < n; j++ {
   diff := a[i*lda+j] - b[i*n+j]
   if math.IsNaN(diff) || math.Abs(diff) > tol {
    return false
   }
  }
 }
 return true
}

// equalApproxGeneral returns whether
 the general matrices a and b are
// approximately equal within given tolerance.
func equalApproxGeneral(a, b blas64.General, tol float64) bool {
 if a.Rows != b.Rows || a.Cols != b.Cols {
  panic("bad input")
 }
 for i := 0; i < a.Rows; i++ {
  for j := 0; j < a.Cols; j++ {
   diff := a.Data[i*a.Stride+j] - b.Data[i*b.Stride+j]
   if math.IsNaN(diff) || math.Abs(diff) > tol {
```

```
    return false
   }
  }
 }
 return true
}

// equalApproxTriangular returns whether the triangular matrices A and B of
// order n are approximately equal within given tolerance.
func equalApproxTriangular(upper bool, n int, a []float64, lda int, b []float64, tol float64) bool {
 if upper {
  for i := 0; i < n; i++ {
   for j := i; j < n; j++ {
    diff := a[i*lda+j] - b[i*n+j]
    if math.IsNaN(diff) || math.Abs(diff) > tol {
     return false
    }
   }
  }
  return true
 }
 for i := 0; i < n; i++ {
  for j := 0; j <= i; j++ {
   diff := a[i*lda+j] - b[i*n+j]
   if math.IsNaN(diff) || math.Abs(diff) > tol
 {
    return false
   }
  }
 }
 return true
}

func equalApproxSymmetric(a, b blas64.Symmetric, tol float64) bool {
 if a.Uplo != b.Uplo {
  return false
 }
 if a.N != b.N {
  return false
 }
 if a.Uplo == blas.Upper {
  for i := 0; i < a.N; i++ {
   for j := i; j < a.N; j++ {
    if !floats.EqualWithinAbsOrRel(a.Data[i*a.Stride+j], b.Data[i*b.Stride+j], tol, tol) {
     return false
    }
   }
  }
```

```
 return true
 }
 for i := 0; i < a.N; i++ {
  for j := 0; j <= i; j++ {
   if !floats.EqualWithinAbsOrRel(a.Data[i*a.Stride+j], b.Data[i*b.Stride+j], tol, tol) {
    return false
   }
  }
 }
 return true
}

// randSymBand returns an nn random symmetric positive definite band matrix
// with kd diagonals.
func randSymBand(uplo blas.Uplo, n, kd, ldab int, rnd *rand.Rand) []float64 {
 // Allocate a triangular band matrix U or L and fill it with random numbers.
 var ab []float64
 if n > 0 {
  ab = make([]float64, (n-1)*ldab+kd+1)
 }
 for i := range ab {
  ab[i] = rnd.NormFloat64()
 }
 // Make sure
 that the matrix U or L has a sufficiently positive diagonal.
 switch uplo {
 case blas.Upper:
  for i := 0; i < n; i++ {
   ab[i*ldab] = float64(n) + rnd.Float64()
  }
 case blas.Lower:
  for i := 0; i < n; i++ {
   ab[i*ldab+kd] = float64(n) + rnd.Float64()
  }
 }
 // Compute U*U or L*L. The resulting (symmetric) matrix A will be
 // positive definite and well-conditioned.
 dsbmm(uplo, n, kd, ab, ldab)
 return ab
}

// distSymBand returns the max-norm distance between the symmetric band matrices
// A and B.
func distSymBand(uplo blas.Uplo, n, kd int, a []float64, lda int, b []float64, ldb int) float64 {
 var dist float64
 switch uplo {
 case blas.Upper:
  for i := 0; i < n; i++ {
```

```
   for j := 0; j < min(kd+1, n-i); j++ {
    dist = math.Max(dist, math.Abs(a[i*lda+j]-b[i*ldb+j]))
   }
  }
 case blas.Lower:
  for i := 0; i < n; i++ {
   for j := max(0, kd-i); j < kd+1; j++ {
    dist = math.Max(dist, math.Abs(a[i*lda+j]-b[i*ldb+j]))
   }
  }
 }
 return dist
}

// eye returns an identity
 matrix of given order and stride.
func eye(n, stride int) blas64.General {
 ans := nanGeneral(n, n, stride)
 for i := 0; i < n; i++ {
  for j := 0; j < n; j++ {
   ans.Data[i*ans.Stride+j] = 0
  }
  ans.Data[i*ans.Stride+i] = 1
 }
 return ans
}

// zeros returns an mn matrix with given stride filled with zeros.
func zeros(m, n, stride int) blas64.General {
 a := nanGeneral(m, n, stride)
 for i := 0; i < m; i++ {
  for j := 0; j < n; j++ {
   a.Data[i*a.Stride+j] = 0
  }
 }
 return a
}

// extract2x2Block returns the elements of T at [0,0], [0,1], [1,0], and [1,1].
func extract2x2Block(t []float64, ldt int) (a, b, c, d float64) {
 return t[0], t[1], t[ldt], t[ldt+1]
}

// isSchurCanonical returns whether the 22 matrix [a b; c d] is in Schur
// canonical form.
func isSchurCanonical(a, b, c, d float64) bool {
 return c == 0 || (a == d && math.Signbit(b) != math.Signbit(c))
}
```

```
// isSchurCanonicalGeneral returns whether T is block upper triangular with 11
// and 22 diagonal blocks, each
 22 block in Schur canonical form. The function
// checks only along the diagonal and the first subdiagonal, otherwise the lower
// triangle is not accessed.
func isSchurCanonicalGeneral(t blas64.General) bool {
 if t.Rows != t.Cols {
  panic("invalid matrix")
 }
 for i := 0; i < t.Rows-1; {
  if t.Data[(i+1)*t.Stride+i] == 0 {
   // 11 block.
   i++
   continue
  }
  // 22 block.
  a, b, c, d := extract2x2Block(t.Data[i*t.Stride+i:], t.Stride)
  if !isSchurCanonical(a, b, c, d) {
   return false
  }
  i += 2
 }
 return true
}

// schurBlockEigenvalues returns the two eigenvalues of the 22 matrix [a b; c d]
// that must be in Schur canonical form.
func schurBlockEigenvalues(a, b, c, d float64) (ev1, ev2 complex128) {
 if !isSchurCanonical(a, b, c, d) {
  panic("block not in Schur canonical form")
 }
 if c == 0 {
  return complex(a, 0), complex(d, 0)
 }
 im := math.Sqrt(-b * c)
 return complex(a, im), complex(a, -im)
}

// schurBlockSize returns the size of the diagonal block at i-th row
 in the
// upper quasi-triangular matrix t in Schur canonical form, and whether i points
// to the first row of the block. For zero-sized matrices the function returns 0
// and true.
func schurBlockSize(t blas64.General, i int) (size int, first bool) {
 if t.Rows != t.Cols {
  panic("matrix not square")
 }
```

```
 if t.Rows == 0 {
  return 0, true
 }
 if i < 0 || t.Rows <= i {
  panic("index out of range")
 }

 first = true
 if i > 0 && t.Data[i*t.Stride+i-1] != 0 {
  // There is a non-zero element to the left, therefore i must
  // point to the second row in a 22 diagonal block.
  first = false
  i--
 }
 size = 1
 if i+1 < t.Rows && t.Data[(i+1)*t.Stride+i] != 0 {
  // There is a non-zero element below, this must be a 22
  // diagonal block.
  size = 2
 }
 return size, first
}

// containsComplex returns whether z is approximately equal to one of the complex
// numbers in v. If z is found, its index in v will be also returned.
func containsComplex(v []complex128, z complex128, tol float64)
 (found bool, index int) {
 for i := range v {
  if cmplx.Abs(v[i]-z) < tol {
   return true, i
  }
 }
 return false, -1
}

// isAllNaN returns whether x contains only NaN values.
func isAllNaN(x []float64) bool {
 for _, v := range x {
  if !math.IsNaN(v) {
   return false
  }
 }
 return true
}

// isUpperHessenberg returns whether h contains only zeros below the
// subdiagonal.
func isUpperHessenberg(h blas64.General) bool {
```

```
 if h.Rows != h.Cols {
  panic("matrix not square")
 }
 n := h.Rows
 for i := 0; i < n; i++ {
  for j := 0; j < n; j++ {
   if i > j+1 && h.Data[i*h.Stride+j] != 0 {
    return false
   }
  }
 }
 return true
}

// isUpperTriangular returns whether a contains only zeros below the diagonal.
func isUpperTriangular(a blas64.General) bool {
 n := a.Rows
 for i := 1; i < n; i++ {
  for j := 0; j < i; j++ {
   if a.Data[i*a.Stride+j] != 0 {
    return false
   }
  }
 }
 return true
}

// unbalancedSparseGeneral returns an mn dense matrix with a random sparse
// structure
 consisting of nz nonzero elements. The matrix will be unbalanced by
// multiplying each element randomly by its row or column index.
func unbalancedSparseGeneral(m, n, stride int, nonzeros int, rnd *rand.Rand) blas64.General {
 a := zeros(m, n, stride)
 for k := 0; k < nonzeros; k++ {
  i := rnd.Intn(n)
  j := rnd.Intn(n)
  if rnd.Float64() < 0.5 {
   a.Data[i*stride+j] = float64(i+1) * rnd.NormFloat64()
  } else {
   a.Data[i*stride+j] = float64(j+1) * rnd.NormFloat64()
  }
 }
 return a
}

// columnOf returns a copy of the j-th column of a.
func columnOf(a blas64.General, j int) []float64 {
 if j < 0 || a.Cols <= j {
```

```
 panic("bad column index")
 }
 col := make([]float64, a.Rows)
 for i := range col {
  col[i] = a.Data[i*a.Stride+j]
 }
 return col
}

// isRightEigenvectorOf returns whether the vector xRe+i*xIm, where i is the
// imaginary unit, is the right eigenvector of A corresponding to the eigenvalue
// lambda.
//
// A right eigenvector corresponding to a complex eigenvalue  is a
 complex
// non-zero vector x such that
//  A x =  x.
func isRightEigenvectorOf(a blas64.General, xRe, xIm []float64, lambda complex128, tol float64) bool {
 if a.Rows != a.Cols {
  panic("matrix not square")
 }

 if imag(lambda) != 0 && xIm == nil {
  // Complex eigenvalue of a real matrix cannot have a real
  // eigenvector.
  return false
 }

 n := a.Rows

 // Compute A real(x) and store the result into xReAns.
 xReAns := make([]float64, n)
 blas64.Gemv(blas.NoTrans, 1, a, blas64.Vector{Data: xRe, Inc: 1}, 0, blas64.Vector{Data: xReAns, Inc: 1})

 if imag(lambda) == 0 && xIm == nil {
  // Real eigenvalue and eigenvector.

  // Compute x and store the result into lambdax.
  lambdax := make([]float64, n)
  floats.AddScaled(lambdax, real(lambda), xRe)

  // This is expressed as the inverse to catch the case
  // xReAns_i = Inf and lambdax_i = Inf of the same sign.
  return !(floats.Distance(xReAns, lambdax, math.Inf(1)) > tol)
 }

 // Complex eigenvector, and real or complex eigenvalue.
```

```
//
Compute A imag(x) and store the result into xImAns.
xImAns := make([]float64, n)
blas64.Gemv(blas.NoTrans, 1, a, blas64.Vector{Data: xIm, Inc: 1}, 0, blas64.Vector{Data: xImAns, Inc: 1})

// Compute x and store the result into lambdax.
lambdax := make([]complex128, n)
for i := range lambdax {
 lambdax[i] = lambda * complex(xRe[i], xIm[i])
}

for i, v := range lambdax {
 ax := complex(xReAns[i], xImAns[i])
 if cmplx.Abs(v-ax) > tol {
  return false
 }
}
return true
}

// isLeftEigenvectorOf returns whether the vector yRe+i*yIm, where i is the
// imaginary unit, is the left eigenvector of A corresponding to the eigenvalue
// lambda.
//
// A left eigenvector corresponding to a complex eigenvalue  is a complex
// non-zero vector y such that
//  y A =  y,
// which is equivalent for real A to
//  A y = conj() y,
func isLeftEigenvectorOf(a blas64.General, yRe, yIm []float64, lambda complex128, tol float64) bool {
 if a.Rows != a.Cols {
  panic("matrix not square")
 }

 if
 imag(lambda) != 0 && yIm == nil {
  // Complex eigenvalue of a real matrix cannot have a real
  // eigenvector.
  return false
 }

 n := a.Rows

 // Compute A real(y) and store the result into yReAns.
 yReAns := make([]float64, n)
 blas64.Gemv(blas.Trans, 1, a, blas64.Vector{Data: yRe, Inc: 1}, 0, blas64.Vector{Data: yReAns, Inc: 1})

 if imag(lambda) == 0 && yIm == nil {
```

```
 // Real eigenvalue and eigenvector.

 // Compute y and store the result into lambday.
 lambday := make([]float64, n)
 floats.AddScaled(lambday, real(lambda), yRe)

 // This is expressed as the inverse to catch the case
 // yReAns_i = Inf and lambday_i = Inf of the same sign.
 return !(floats.Distance(yReAns, lambday, math.Inf(1)) > tol)
}

// Complex eigenvector, and real or complex eigenvalue.

// Compute A imag(y) and store the result into yImAns.
yImAns := make([]float64, n)
blas64.Gemv(blas.Trans, 1, a, blas64.Vector{Data: yIm, Inc: 1}, 0, blas64.Vector{Data: yImAns, Inc: 1})

// Compute conj()y and
store the result into lambday.
lambda = cmplx.Conj(lambda)
lambday := make([]complex128, n)
for i := range lambday {
 lambday[i] = lambda * complex(yRe[i], yIm[i])
}

for i, v := range lambday {
 ay := complex(yReAns[i], yImAns[i])
 if cmplx.Abs(v-ay) > tol {
  return false
 }
}
return true
}

// rootsOfUnity returns the n complex numbers whose n-th power is equal to 1.
func rootsOfUnity(n int) []complex128 {
 w := make([]complex128, n)
 for i := 0; i < n; i++ {
  angle := math.Pi * float64(2*i) / float64(n)
  w[i] = complex(math.Cos(angle), math.Sin(angle))
 }
 return w
}

// constructGSVDresults returns the matrices [ 0 R ], D1 and D2 described
// in the documentation of Dtgsja and Dggsvd3, and the result matrix in
// the documentation for Dggsvp3.
func constructGSVDresults(n, p, m, k, l int, a, b blas64.General, alpha, beta []float64) (zeroR, d1, d2
```

```
blas64.General) {
 // [ 0 R ]
 zeroR = zeros(k+l, n, n)
 dst := zeroR
 dst.Rows = min(m, k+l)
 dst.Cols = k + l
 dst.Data
 = zeroR.Data[n-k-l:]
 src := a
 src.Rows = min(m, k+l)
 src.Cols = k + l
 src.Data = a.Data[n-k-l:]
 copyGeneral(dst, src)
 if m < k+l {
  // [ 0 R ]
  dst.Rows = k + l - m
  dst.Cols = k + l - m
  dst.Data = zeroR.Data[m*zeroR.Stride+n-(k+l-m):]
  src = b
  src.Rows = k + l - m
  src.Cols = k + l - m
  src.Data = b.Data[(m-k)*b.Stride+n+m-k-l:]
  copyGeneral(dst, src)
 }

 // D1
 d1 = zeros(m, k+l, k+l)
 for i := 0; i < k; i++ {
  d1.Data[i*d1.Stride+i] = 1
 }
 for i := k; i < min(m, k+l); i++ {
  d1.Data[i*d1.Stride+i] = alpha[i]
 }

 // D2
 d2 = zeros(p, k+l, k+l)
 for i := 0; i < min(l, m-k); i++ {
  d2.Data[i*d2.Stride+i+k] = beta[k+i]
 }
 for i := m - k; i < l; i++ {
  d2.Data[i*d2.Stride+i+k] = 1
 }

 return zeroR, d1, d2
}

func constructGSVPresults(n, p, m, k, l int, a, b blas64.General) (zeroA, zeroB blas64.General) {
 zeroA = zeros(m, n, n)
```

```
 dst := zeroA
 dst.Rows = min(m, k+l)
 dst.Cols = k + l
 dst.Data = zeroA.Data[n-k-l:]
 src := a
 dst.Rows = min(m, k+l)
 src.Cols = k +
 l
 src.Data = a.Data[n-k-l:]
 copyGeneral(dst, src)

 zeroB = zeros(p, n, n)
 dst = zeroB
 dst.Rows = l
 dst.Cols = l
 dst.Data = zeroB.Data[n-l:]
 src = b
 dst.Rows = l
 src.Cols = l
 src.Data = b.Data[n-l:]
 copyGeneral(dst, src)

 return zeroA, zeroB
}

// distFromIdentity returns the L-infinity distance of an nn matrix A from the
// identity. If A contains NaN elements, distFromIdentity will return +inf.
func distFromIdentity(n int, a []float64, lda int) float64 {
 var dist float64
 for i := 0; i < n; i++ {
  for j := 0; j < n; j++ {
   aij := a[i*lda+j]
   if math.IsNaN(aij) {
    return math.Inf(1)
   }
   if i == j {
    dist = math.Max(dist, math.Abs(aij-1))
   } else {
    dist = math.Max(dist, math.Abs(aij))
   }
  }
 }
 return dist
}

func sameFloat64(a, b float64) bool {
 return a == b || math.IsNaN(a) && math.IsNaN(b)
}
```

```
// sameLowerTri returns whether nn matrices A and B are same under the diagonal.
func sameLowerTri(n int, a []float64, lda int, b []float64, ldb int) bool
 {
 for i := 1; i < n; i++ {
  for j := 0; j < i; j++ {
   aij := a[i*lda+j]
   bij := b[i*ldb+j]
   if !sameFloat64(aij, bij) {
    return false
   }
  }
 }
 return true
}

// sameUpperTri returns whether nn matrices A and B are same above the diagonal.
func sameUpperTri(n int, a []float64, lda int, b []float64, ldb int) bool {
 for i := 0; i < n-1; i++ {
  for j := i + 1; j < n; j++ {
   aij := a[i*lda+j]
   bij := b[i*ldb+j]
   if !sameFloat64(aij, bij) {
    return false
   }
  }
 }
 return true
}

// svdJobString returns a string representation of job.
func svdJobString(job lapack.SVDJob) string {
 switch job {
 case lapack.SVDAll:
  return "All"
 case lapack.SVDStore:
  return "Store"
 case lapack.SVDOverwrite:
  return "Overwrite"
 case lapack.SVDNone:
  return "None"
 }
 return "unknown SVD job"
}
---
name: Question
about: Ask at the Gonum discussion list https://groups.google.com/forum/#!forum/gonum-dev
```

```
---
<!--
For question about usage or similar, please ask at the Gonum discussion list
rather than filing an issue:

https://groups.google.com/forum/#!forum/gonum-dev
-->

# :no_entry_sign: INVALID :no_entry_sign:
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// license that can be found in the LICENSE file.

package gonum

import (
 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
)

// Dorg2r generates an mn matrix Q with orthonormal columns defined by the
// product of elementary reflectors as computed by Dgeqrf.
//  Q = H_0 * H_1 * ... * H_{k-1}
// len(tau) >= k, 0 <= k <= n, 0 <= n <= m, len(work) >= n.
// Dorg2r will panic if these conditions are not met.
//
// Dorg2r is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dorg2r(m, n, k int, a []float64, lda int, tau []float64, work []float64) {
 switch {
 case m < 0:
  panic(mLT0)
 case n < 0:
  panic(nLT0)
 case n > m:
  panic(nGTM)
 case k < 0:
  panic(kLT0)
 case k > n:
  panic(kGTN)
 case lda < max(1, n):
  panic(badLdA)
 }

 if n == 0 {
  return
 }

 switch {
```

```
 case len(a) < (m-1)*lda+n:
  panic(shortA)
 case len(tau) < k:
  panic(shortTau)
 case
 len(work) < n:
  panic(shortWork)
 }

 bi := blas64.Implementation()

 // Initialize columns k+1:n to columns of the unit matrix.
 for l := 0; l < m; l++ {
  for j := k; j < n; j++ {
   a[l*lda+j] = 0
  }
 }
 for j := k; j < n; j++ {
  a[j*lda+j] = 1
 }
 for i := k - 1; i >= 0; i-- {
  for i := range work {
   work[i] = 0
  }
  if i < n-1 {
   a[i*lda+i] = 1
   impl.Dlarf(blas.Left, m-i, n-i-1, a[i*lda+i:], lda, tau[i], a[i*lda+i+1:], lda, work)
  }
  if i < m-1 {
   bi.Dscal(m-i-1, -tau[i], a[(i+1)*lda+i:], lda)
  }
  a[i*lda+i] = 1 - tau[i]
  for l := 0; l < i; l++ {
   a[l*lda+i] = 0
  }
 }
}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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// license that can be found in the LICENSE file.

package unit

import (
 "errors"
 "fmt"
```

```
 "math"
 "unicode/utf8"
)

// Candela represents a luminous intensity in candela.
type LuminousIntensity float64

const Candela LuminousIntensity = 1

// Unit converts the LuminousIntensity to a *Unit
func (j LuminousIntensity) Unit() *Unit {
 return New(float64(j), Dimensions{
  LuminousIntensityDim: 1,
 })
}

// LuminousIntensity allows LuminousIntensity to implement a LuminousIntensityer interface
func (j LuminousIntensity) LuminousIntensity() LuminousIntensity {
 return j
}

// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (j *LuminousIntensity) From(u Uniter) error {
 if !DimensionsMatch(u, Candela) {
  *j = LuminousIntensity(math.NaN())
  return errors.New("Dimension
 mismatch")
 }
 *j = LuminousIntensity(u.Unit().Value())
 return nil
}

func (j LuminousIntensity) Format(fs fmt.State, c rune) {
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", j, float64(j))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " cd"
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(j))
```

```
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(j))
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(j))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(j))
  }
  fmt.Fprint(fs, unit)
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g cd)", c, j, float64(j))
 }
}
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package quat

import (
 "testing"

 "gonum.org/v1/gonum/floats"
)

var invTests = []struct {
 q       Number
 wantNaN bool
}{
 {q: Number{Real: 1, Imag: 1, Jmag: 1, Kmag: 1}},
 {q: Number{Real: 3, Imag: -1, Jmag: 5, Kmag: -40}},
 {q: Number{Real: 1e6, Imag: -1e5, Jmag: 4, Kmag: -10}},
 {q: Number{Real: 0, Imag: 1, Jmag: 1, Kmag: 1}},
 {q: Number{Real: 1, Imag: 0, Jmag: 1, Kmag: 1}},
 {q: Number{Real: 1, Imag: 1, Jmag: 0, Kmag: 1}},
 {q: Number{Real: 1, Imag: 1, Jmag: 1, Kmag: 0}},
 {q: Number{}, wantNaN: true},
}

func TestInv(t *testing.T) {
 const tol = 1e-14
 for _, test := range invTests {
  got := Mul(test.q, Inv(test.q))
  if test.wantNaN {
   if !IsNaN(got) {
    t.Errorf("unexpected result for Mul(%v, Inv(%[1]v)): got:%v want:%v", test.q, got, NaN())
   }
   continue
  }
```

```
  if !(floats.EqualWithinAbsOrRel(got.Real, 1, tol,
 tol) && floats.EqualWithinAbsOrRel(Abs(got), 1, tol, tol)) {
   t.Errorf("unexpected result for Mul(%v, Inv(%[1]v)): got:%v want:%v", test.q, got, Number{Real: 1})
  }
 }
}
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package mat

// TriKind represents the triangularity of the matrix.
type TriKind bool

const (
 // Upper specifies an upper triangular matrix.
 Upper TriKind = true
 // Lower specifies a lower triangular matrix.
 Lower TriKind = false
)
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package r1

// Interval represents an interval.
type Interval struct {
 Min, Max float64
}
//**
 github.com/fjl/go-ethereum@v0.6.8
 and others
**//

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// +build !amd64 noasm appengine safe

package math32

import (
 "math"
)

// Sqrt returns the square root of x.
//
// Special cases are:
// Sqrt(+Inf) = +Inf
// Sqrt(0) = 0
// Sqrt(x < 0) = NaN
// Sqrt(NaN) = NaN
func Sqrt(x float32) float32 {
 // FIXME(kortschak): Direct translation of the math package
 // asm code for 386 fails to build. No test hardware is available
 // for arm, so using conversion instead.
 return float32(math.Sqrt(float64(x)))
}
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```

```
package distmv

import (
 "log"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/mat"
)

func BenchmarkMarginalNormal10(b *testing.B) {
 sz := 10
 rnd := rand.New(rand.NewSource(1))
 normal := randomNormal(sz, rnd)
 normal.CovarianceMatrix(&mat.SymDense{}) // pre-compute sigma
 b.ResetTimer()
 for i := 0; i < b.N; i++ {
  marg, ok := normal.MarginalNormal([]int{1}, nil)
  if !ok {
   b.Error("bad test")
  }
  _ = marg
 }
}

func BenchmarkMarginalNormalReset10(b *testing.B) {
 sz := 10
 rnd := rand.New(rand.NewSource(1))
 normal := randomNormal(sz, rnd)
 b.ResetTimer()
 for i := 0; i < b.N; i++ {
  marg, ok := normal.MarginalNormal([]int{1}, nil)
  if !ok {
   b.Error("bad test")
  }
  _ = marg
 }
}

func BenchmarkMarginalNormalSingle10(b *testing.B) {
 sz := 10
 rnd := rand.New(rand.NewSource(1))
 normal := randomNormal(sz,
 rnd)
 b.ResetTimer()
 for i := 0; i < b.N; i++ {
```

```
  marg := normal.MarginalNormalSingle(1, nil)
  _ = marg
 }
}

func randomNormal(sz int, rnd *rand.Rand) *Normal {
 mu := make([]float64, sz)
 for i := range mu {
  mu[i] = rnd.Float64()
 }
 data := make([]float64, sz*sz)
 for i := range data {
  data[i] = rnd.Float64()
 }
 dM := mat.NewDense(sz, sz, data)
 var sigma mat.SymDense
 sigma.SymOuterK(1, dM)

 normal, ok := NewNormal(mu, &sigma, nil)
 if !ok {
  log.Fatal("bad test, not pos def")
 }
 return normal
}
```

//** github.com/gyuho/learn@v0.0.0-20170111014222-d7ea19cb9a88 **//

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//** github.com/ecletus-pkg/fontawesome_com@v0.0.0-20200904170934-0e02fad1db22 **//

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package samplemv

import (
 "math"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/mat"
 "gonum.org/v1/gonum/stat/distmv"
)

func TestHalton(t *testing.T) {
 for cas, test := range []struct {
  n int
  d int
 }{
  {10, 1},
  {100, 2},
  {1000, 3},
 } {
  src := rand.New(rand.NewSource(1))
  // Generate the samples.
  batch := mat.NewDense(test.n, test.d, nil)
  Halton{Kind: Owen, Q: distmv.NewUnitUniform(test.d, nil), Src: src}.Sample(batch)

  // In each dimension, the samples should be stratefied according to the
  // prime for that dimension. There should be at most 1 sample per
  // 1/b^k block, where k is log(n)/log(b).
  for d := 0; d < test.d; d++ {
   b := float64(nthPrime(d))
   fk := math.Log(float64(test.n)) / math.Log(b)
   k := math.Ceil(fk)
   den := math.Pow(b, k)
```

```
  m := make(map[int]int)
  for i :=
 0; i < test.n; i++ {
   bucket := int(batch.At(i, d) * den)
   m[bucket]++
  }
  for bucket, n := range m {
   if n > 1 {
    t.Errorf("case %d: bucket %v has %v samples", cas, bucket, n)
   }
  }
 }
}
}
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// license that can be found in the LICENSE file.

package testblas

import (
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
)

func DgemmBenchmark(b *testing.B, dgemm Dgemmer, m, n, k int, tA, tB blas.Transpose) {
 a := make([]float64, m*k)
 for i := range a {
  a[i] = rand.Float64()
 }
 bv := make([]float64, k*n)
 for i := range bv {
  bv[i] = rand.Float64()
 }
 c := make([]float64, m*n)
 for i := range c {
  c[i] = rand.Float64()
 }
 var lda, ldb int
 if tA == blas.Trans {
  lda = m
 } else {
  lda = k
 }
 if tB == blas.Trans {
```

```
 ldb = k
 } else {
  ldb = n
 }
 ldc := n
 b.ResetTimer()
 for i := 0; i < b.N; i++ {
  dgemm.Dgemm(tA, tB, m, n, k, 3.0, a, lda, bv, ldb, 1.0, c, ldc)
 }
}
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// Package distuv provides univariate random distribution types.
package distuv // import "gonum.org/v1/gonum/stat/distuv"
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package c128

// ScalUnitaryTo is
//  for i, v := range x {
//   dst[i] = alpha * v
//  }
func ScalUnitaryTo(dst []complex128, alpha complex128, x []complex128) {
 for i, v := range x {
  dst[i] = alpha * v
 }
}

// ScalIncTo is
//  var idst, ix uintptr
//  for i := 0; i < int(n); i++ {
//   dst[idst] = alpha * x[ix]
//   ix += incX
//   idst += incDst
//  }
func ScalIncTo(dst []complex128, incDst uintptr, alpha complex128, x []complex128, n, incX uintptr) {
 var idst, ix uintptr
 for i := 0; i < int(n); i++ {
  dst[idst] = alpha * x[ix]
  ix += incX
  idst += incDst
 }
}
```

```
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// +build !amd64 noasm appengine safe

package f32

// Ger performs the rank-one operation
//  A += alpha * x * y
// where A is an mn dense matrix, x and y are vectors, and alpha is a scalar.
func Ger(m, n uintptr, alpha float32, x []float32, incX uintptr, y []float32, incY uintptr, a []float32, lda uintptr) {

 if incX == 1 && incY == 1 {
  x = x[:m]
  y = y[:n]
  for i, xv := range x {
   AxpyUnitary(alpha*xv, y, a[uintptr(i)*lda:uintptr(i)*lda+n])
  }
  return
 }

 var ky, kx uintptr
 if int(incY) < 0 {
  ky = uintptr(-int(n-1) * int(incY))
 }
 if int(incX) < 0 {
  kx = uintptr(-int(m-1) * int(incX))
 }

 ix := kx
 for i := 0; i < int(m); i++ {
  AxpyInc(alpha*x[ix], y, a[uintptr(i)*lda:uintptr(i)*lda+n], uintptr(n), uintptr(incY), 1, uintptr(ky), 0)
  ix += incX
 }
}
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package c64

// ScalUnitary is
//  for i := range x {
//   x[i] *= alpha
//  }
func ScalUnitary(alpha complex64, x []complex64) {
 for i := range x {
```

```
  x[i] *= alpha
 }
}

// ScalUnitaryTo is
//  for i, v := range x {
//   dst[i] = alpha * v
//  }
func ScalUnitaryTo(dst []complex64, alpha complex64, x []complex64) {
 for i, v := range x {
  dst[i] = alpha * v
 }
}

// ScalInc is
//  var ix uintptr
//  for i := 0; i < int(n); i++ {
//   x[ix] *= alpha
//   ix += incX
//  }
func ScalInc(alpha complex64, x []complex64, n, incX uintptr) {
 var ix uintptr
 for i := 0; i < int(n); i++ {
  x[ix] *= alpha
  ix += incX
 }
}

// ScalIncTo is
//  var idst, ix uintptr
//  for i := 0; i < int(n); i++ {
//   dst[idst] = alpha * x[ix]
//   ix += incX
//   idst += incDst
//  }
func ScalIncTo(dst []complex64, incDst uintptr, alpha complex64, x
 []complex64, n, incX uintptr) {
 var idst, ix uintptr
 for i := 0; i < int(n); i++ {
  dst[idst] = alpha * x[ix]
  ix += incX
  idst += incDst
 }
}

// SscalUnitary is
//  for i, v := range x {
//   x[i] = complex(real(v)*alpha, imag(v)*alpha)
```

```
//  }
func SscalUnitary(alpha float32, x []complex64) {
 for i, v := range x {
  x[i] = complex(real(v)*alpha, imag(v)*alpha)
 }
}

// SscalInc is
//  var ix uintptr
//  for i := 0; i < int(n); i++ {
//   x[ix] = complex(real(x[ix])*alpha, imag(x[ix])*alpha)
//   ix += inc
//  }
func SscalInc(alpha float32, x []complex64, n, inc uintptr) {
 var ix uintptr
 for i := 0; i < int(n); i++ {
  x[ix] = complex(real(x[ix])*alpha, imag(x[ix])*alpha)
  ix += inc
 }
}
// Code generated by "go generate gonum.org/v1/gonum/unit/constant; DO NOT EDIT.

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package constant

import (
 "fmt"

 "gonum.org/v1/gonum/unit"
)

// Boltzmann is the Boltzmann constant (k), it relates the average relative kinetic energy of particles in a gas with the
temperature of the gas.
// The dimensions of Boltzmann are kg m^2 K^-1 s^-2. The constant is exact.
const Boltzmann = boltzmannUnits(1.380649e-23)

type boltzmannUnits float64

// Unit converts the boltzmannUnits to a *unit.Unit
func (cnst boltzmannUnits) Unit() *unit.Unit {
 return unit.New(float64(cnst), unit.Dimensions{
  unit.MassDim:        1,
  unit.LengthDim:      2,
  unit.TimeDim:        -2,
  unit.TemperatureDim: -1,
```

```
 })
}

func (cnst boltzmannUnits) Format(fs fmt.State, c rune) {
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", cnst,
 float64(cnst))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), w, p, cnst.Unit())
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, cnst.Unit())
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), w, cnst.Unit())
  default:
   fmt.Fprintf(fs, "%"+string(c), cnst.Unit())
  }
 default:
  fmt.Fprintf(fs, "%%!"+string(c)+"(constant.boltzmannUnits=%v kg m^2 K^-1 s^-2)", float64(cnst))
 }
}
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package vptree_test

import (
 "fmt"
 "log"

 "gonum.org/v1/gonum/spatial/vptree"
)

func ExampleTree() {
 // Example data from https://en.wikipedia.org/wiki/K-d_tree
 points := []vptree.Comparable{
  vptree.Point{2, 3},
  vptree.Point{5, 4},
  vptree.Point{9, 6},
```

```
 vptree.Point{4, 7},
 vptree.Point{8, 1},
 vptree.Point{7, 2},
}

t, err := vptree.New(points, 3, nil)
if err != nil {
 log.Fatal(err)
}
q := vptree.Point{8, 7}
p, d := t.Nearest(q)
fmt.Printf("%v is closest point to %v, d=%f\n", p, q, d)
// Output:
// [9 6] is closest point to [8 7], d=1.414214
}

func ExampleTree_Do() {
// Example data from https://en.wikipedia.org/wiki/K-d_tree
points := []vptree.Comparable{
 vptree.Point{2, 3},
 vptree.Point{5, 4},
 vptree.Point{9, 6},
 vptree.Point{4, 7},
 vptree.Point{8, 1},
 vptree.Point{7, 2},
}

// Print
all points in the data set within 3 of (3, 5).
t, err := vptree.New(points, 0, nil)
if err != nil {
 log.Fatal(err)
}
q := vptree.Point{3, 5}
t.Do(func(c vptree.Comparable, _ int) (done bool) {
 // Compare each distance and output points
 // with a Euclidean distance less than or
 // equal to 3. Distance returns the
 // Euclidean distance between points.
 if q.Distance(c) <= 3 {
  fmt.Println(c)
 }
 return
})
// Unordered output:
// [2 3]
// [4 7]
// [5 4]
```

```
}
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package testlapack

import (
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/floats"
)

type Dorgl2er interface {
 Dgelqfer
 Dorgl2(m, n, k int, a []float64, lda int, tau []float64, work []float64)
}

func Dorgl2Test(t *testing.T, impl Dorgl2er) {
 rnd := rand.New(rand.NewSource(1))
 for _, test := range []struct {
  m, n, lda int
 }{
  {3, 3, 0},
  {3, 4, 0},

  {5, 5, 20},
  {5, 10, 20},
 } {
  m := test.m
  n := test.n
  lda := test.lda
  if lda == 0 {
   lda = test.n
  }
  a := make([]float64, m*lda)
  for i := range a {
   a[i] = rnd.NormFloat64()
  }
  k := min(m, n)
  tau := make([]float64, k)
  work := make([]float64, 1)
  impl.Dgelqf(m, n, a, lda, tau, work, -1)
  work = make([]float64, int(work[0]))
  impl.Dgelqf(m, n, a, lda, tau, work, len(work))
```

```
 q := constructQ("LQ", m, n, a, lda, tau)

 impl.Dorgl2(m,
n, k, a, lda, tau, work)

 // Check that the first m rows match.
 same := true
 for i := 0; i < m; i++ {
  for j := 0; j < n; j++ {
   if !floats.EqualWithinAbsOrRel(q.Data[i*q.Stride+j], a[i*lda+j], 1e-12, 1e-12) {
    same = false
    break
   }
  }
 }
 if !same {
  t.Errorf("Q mismatch")
 }
}
}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "fmt"
 "testing"
)

func TestMassFormat(t *testing.T) {
 for _, test := range []struct {
  value  Mass
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 kg"},
  {1.23456789, "%.1v", "1 kg"},
  {1.23456789, "%20.1v", "                1 kg"},
  {1.23456789, "%20v", "       1.23456789 kg"},
  {1.23456789, "%1v", "1.23456789 kg"},
  {1.23456789, "%#v", "unit.Mass(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Mass=1.23456789 kg)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
```

```
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
Please take a look.

<!--
Checklist:

- API changes have been discussed
- code is goformated correctly (goimports)
- packages with generated code have had code generation run
- tests pass locally
- linked to relevant issues

Please make sure your commit message summary line and pull request
title match the Go convention; a one-line summary of the change,
prefixed by the primary affected package that should complete the
sentence, "This change modifies Gonum to _____."
-->
// SPDX-License-Identifier: Unlicense OR MIT

package window

import (
 "errors"
 "syscall/js"

 "gioui.org/app/internal/gl"
)

type context struct {
 ctx     js.Value
 cnv     js.Value
 f       *gl.Functions
 srgbFBO *gl.SRGBFBO
}

func newContext(w *window) (*context, error) {
 args := map[string]interface{}{
  // Enable low latency rendering.
  // See https://developers.google.com/web/updates/2019/05/desynchronized.
  "desynchronized":        true,
  "preserveDrawingBuffer": true,
 }
 version := 2
 ctx := w.cnv.Call("getContext", "webgl2", args)
```

```
 if ctx.IsNull() {
  version = 1
  ctx = w.cnv.Call("getContext", "webgl", args)
 }
 if ctx.IsNull() {
  return nil, errors.New("app: webgl is not supported")
 }
 f := &gl.Functions{Ctx: ctx}
 if err := f.Init(version); err != nil {
  return nil, err
 }
 c := &context{
  ctx: ctx,
  cnv: w.cnv,
  f:   f,
 }
 return c, nil
}

func (c *context) Functions() *gl.Functions {
 return c.f
}

func (c *context) Release() {
 if c.srgbFBO != nil {
  c.srgbFBO.Release()
  c.srgbFBO
 = nil
 }
}

func (c *context) Present() error {
 if c.srgbFBO != nil {
  c.srgbFBO.Blit()
 }
 if c.srgbFBO != nil {
  c.srgbFBO.AfterPresent()
 }
 if c.ctx.Call("isContextLost").Bool() {
  return errors.New("context lost")
 }
 return nil
}

func (c *context) Lock() {}

func (c *context) Unlock() {}
```

```
func (c *context) MakeCurrent() error {
 if c.srgbFBO == nil {
  var err error
  c.srgbFBO, err = gl.NewSRGBFBO(c.f)
  if err != nil {
   c.Release()
   c.srgbFBO = nil
   return err
  }
 }
 w, h := c.cnv.Get("width").Int(), c.cnv.Get("height").Int()
 if err := c.srgbFBO.Refresh(w, h); err != nil {
  c.Release()
  return err
 }
 return nil
}

func (w *window) NewContext() (Context, error) {
 return newContext(w)
}
```

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```
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package unit

import (
 "errors"
 "fmt"
 "math"
 "unicode/utf8"
)

// Acceleration represents an acceleration in metres per second squared.
type Acceleration float64

// Unit converts the Acceleration to a *Unit
func (a Acceleration) Unit() *Unit {
 return New(float64(a), Dimensions{
  LengthDim: 1,
  TimeDim:   -2,
 })
}

// Acceleration allows Acceleration to implement a Accelerationer interface
func (a Acceleration) Acceleration() Acceleration {
 return a
}

// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (a *Acceleration) From(u Uniter) error {
 if !DimensionsMatch(u, Acceleration(0)) {
  *a = Acceleration(math.NaN())
  return errors.New("Dimension mismatch")
 }
 *a = Acceleration(u.Unit().Value())
 return
 nil
}

func (a Acceleration) Format(fs fmt.State, c rune) {
 switch c {
 case 'v':
  if fs.Flag('#') {
```

```
  fmt.Fprintf(fs, "%T(%v)", a, float64(a))
  return
 }
 fallthrough
case 'e', 'E', 'f', 'F', 'g', 'G':
 p, pOk := fs.Precision()
 w, wOk := fs.Width()
 const unit = " m s^-2"
 switch {
 case pOk && wOk:
  fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(a))
 case pOk:
  fmt.Fprintf(fs, "%.*"+string(c), p, float64(a))
 case wOk:
  fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(a))
 default:
  fmt.Fprintf(fs, "%"+string(c), float64(a))
 }
 fmt.Fprint(fs, unit)
default:
 fmt.Fprintf(fs, "%%!%c(%T=%g m s^-2)", c, a, float64(a))
}
}
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// Package lapack provides interfaces for the LAPACK linear algebra standard.
package lapack // import "gonum.org/v1/gonum/lapack"
      SUBROUTINE ZBUNK(ZR, ZI, FNU, KODE, MR, N, YR, YI, NZ, TOL, ELIM,
     * ALIM)
C***BEGIN PROLOGUE  ZBUNK
C***REFER TO  ZBESK,ZBESH
C
C     ZBUNK COMPUTES THE K BESSEL FUNCTION FOR FNU.GT.FNUL.
C     ACCORDING TO THE UNIFORM ASYMPTOTIC EXPANSION FOR K(FNU,Z)
C     IN ZUNK1 AND THE EXPANSION FOR H(2,FNU,Z) IN ZUNK2
C
C***ROUTINES CALLED  ZUNK1,ZUNK2
C***END PROLOGUE  ZBUNK
C     COMPLEX Y,Z
      DOUBLE PRECISION ALIM, AX, AY, ELIM, FNU, TOL, YI, YR, ZI, ZR
      INTEGER KODE, MR, N, NZ
      DIMENSION YR(N), YI(N)
      NZ = 0
      AX = DABS(ZR)*1.7321D0
      AY = DABS(ZI)
      IF (AY.GT.AX) GO TO 10
```

```
C-----------------------------------------------------------------------
C     ASYMPTOTIC EXPANSION FOR K(FNU,Z) FOR LARGE FNU APPLIED IN
C     -PI/3.LE.ARG(Z).LE.PI/3
C-----------------------------------------------------------------------
      CALL ZUNK1(ZR, ZI, FNU, KODE, MR, N, YR, YI, NZ, TOL, ELIM, ALIM)
      GO TO 20
   10 CONTINUE
C-----------------------------------------------------------------------
C
      ASYMPTOTIC EXPANSION FOR H(2,FNU,Z*EXP(M*HPI)) FOR LARGE FNU
C     APPLIED IN PI/3.LT.ABS(ARG(Z)).LE.PI/2 WHERE M=+I OR -I
C     AND HPI=PI/2
C-----------------------------------------------------------------------
      CALL ZUNK2(ZR, ZI, FNU, KODE, MR, N, YR, YI, NZ, TOL, ELIM, ALIM)
   20 CONTINUE
      RETURN
      END
```

```
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// +build !noasm,!appengine,!safe

package math32

// Sqrt returns the square root of x.
//
// Special cases are:
// Sqrt(+Inf) = +Inf
// Sqrt(0) = 0
// Sqrt(x < 0) = NaN
// Sqrt(NaN) = NaN
func Sqrt(x float32) float32
// SPDX-License-Identifier: Unlicense OR MIT

package material

import (
 "image"
 "image/color"
 "image/draw"

 "gioui.org/f32"
 "gioui.org/layout"
```

```
 "gioui.org/op/paint"
 "gioui.org/unit"
 "golang.org/x/exp/shiny/iconvg"
)

type Icon struct {
 Color color.RGBA
 src   []byte
 size  unit.Value
 // Cached values.
 op       paint.ImageOp
 imgSize  int
 imgColor color.RGBA
}

// NewIcon returns a new Icon from IconVG data.
func NewIcon(data []byte) (*Icon, error) {
 _, err := iconvg.DecodeMetadata(data)
 if err != nil {
  return nil, err
 }
 return &Icon{src: data, Color: rgb(0x000000)}, nil
}

func (ic *Icon) Layout(gtx *layout.Context, sz unit.Value) {
 ico := ic.image(gtx.Px(sz))
 ico.Add(gtx.Ops)
 paint.PaintOp{
  Rect: f32.Rectangle{
   Max: toPointF(ico.Size()),
  },
 }.Add(gtx.Ops)
}

func (ic *Icon) image(sz int) paint.ImageOp {
 if sz == ic.imgSize && ic.Color == ic.imgColor {
  return ic.op
 }
 m, _ := iconvg.DecodeMetadata(ic.src)
 dx, dy := m.ViewBox.AspectRatio()
 img := image.NewRGBA(image.Rectangle{Max:
 image.Point{X: sz, Y: int(float32(sz) * dy / dx)}})
 var ico iconvg.Rasterizer
 ico.SetDstImage(img, img.Bounds(), draw.Src)
 m.Palette[0] = ic.Color
 iconvg.Decode(&ico, ic.src, &iconvg.DecodeOptions{
  Palette: &m.Palette,
 })
```

```
 ic.op = paint.NewImageOp(img)
 ic.imgSize = sz
 ic.imgColor = ic.Color
 return ic.op
}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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// license that can be found in the LICENSE file.

package unit

import (
 "fmt"
 "testing"
)

func TestPressureFormat(t *testing.T) {
 for _, test := range []struct {
  value  Pressure
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 Pa"},
  {1.23456789, "%.1v", "1 Pa"},
  {1.23456789, "%20.1v", "                 1 Pa"},
  {1.23456789, "%20v", "       1.23456789 Pa"},
  {1.23456789, "%1v", "1.23456789 Pa"},
  {1.23456789, "%#v", "unit.Pressure(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Pressure=1.23456789 Pa)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
// Code generated by "go generate gonum.org/v1/gonum/unit/constant; DO NOT EDIT.

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package constant

import (
 "fmt"
```

```
 "testing"
)

func TestAvogadroFormat(t *testing.T) {
 for _, test := range []struct {
  format string
  want   string
 }{
  {"%v", "6.02214076e+23 mol^-1"},
  {"%.1v", "6e+23 mol^-1"},
  {"%50.1v", "                                6e+23 mol^-1"},
  {"%50v", "                         6.02214076e+23 mol^-1"},
  {"%1v", "6.02214076e+23 mol^-1"},
  {"%#v", "constant.avogadroUnits(6.02214076e+23)"},
  {"%s", "%!s(constant.avogadroUnits=6.02214076e+23 mol^-1)"},
 } {
  got := fmt.Sprintf(test.format, Avogadro)
  if got != test.want {
   t.Errorf("Format %q: got: %q want: %q", test.format, got, test.want)
  }
 }
}
// SPDX-License-Identifier: Unlicense OR MIT

// +build !darwin

package key

// ModShortcut is the platform's shortcut modifier, usually the Ctrl
// key. On Apple platforms it is the Cmd key.
const ModShortcut = ModCtrl
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// Package graphql implements JSON marshaling and unmarshaling of graph as
// used by GraphQL
package graphql // import "gonum.org/v1/gonum/graph/encoding/graphql"
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// +build tomita

package topo

const tomitaTanakaTakahashi = true
```

```
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package sampleuv

import (
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/floats"
)

func TestWithoutReplacement(t *testing.T) {
 for cas, test := range []struct {
  N      int
  K      int
  Src    *rand.Rand
  Trials int
  Tol    float64
 }{
  {
   // Test with perm and source.
   N: 10, K: 5, Src: rand.New(rand.NewSource(1)),
   Trials: 100000, Tol: 1e-3,
  },
  {
   // Test without perm and with source.
   N: 10, K: 3, Src: rand.New(rand.NewSource(1)),
   Trials: 100000, Tol: 1e-3,
  },
 } {
  dist := make([]float64, test.N)
  for trial := 0; trial < test.Trials; trial++ {
   idxs := make([]int, test.K)
   WithoutReplacement(idxs, test.N, test.Src)

   allDiff := true
   for i := 0; i < len(idxs); i++ {
    v := idxs[i]
    for j := i + 1; j < len(idxs); j++ {
     if v == idxs[j] {
      allDiff = false
      break
     }
    }
   }
```

```
  if
 !allDiff {
   t.Errorf("Cas %d: Repeat in sampling. Idxs =%v", cas, idxs)
  }
  for _, v := range idxs {
   dist[v]++
  }
 }
 div := 1 / (float64(test.Trials) * float64(test.K))
 floats.Scale(div, dist)
 want := make([]float64, test.N)
 for i := range want {
  want[i] = 1 / float64(test.N)
 }
 if !floats.EqualApprox(want, dist, test.Tol) {
  t.Errorf("Cas %d: biased sampling. Want = %v, got = %v", cas, want, dist)
 }
}
}
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// Package layout defines functions for performing graph layout.
package layout // import "gonum.org/v1/gonum/graph/layout"
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package testlapack

import (
 "testing"

 "golang.org/x/exp/rand"
)

type Dgetrfer interface {
 Dgetrf(m, n int, a []float64, lda int, ipiv []int) bool
}

func DgetrfTest(t *testing.T, impl Dgetrfer) {
 rnd := rand.New(rand.NewSource(1))
 for _, test := range []struct {
  m, n, lda int
 }{
  {10, 5, 0},
  {5, 10, 0},
```

```
 {10, 10, 0},
 {300, 5, 0},
 {3, 500, 0},
 {4, 5, 0},
 {300, 200, 0},
 {204, 300, 0},
 {1, 3000, 0},
 {3000, 1, 0},
 {10, 5, 20},
 {5, 10, 20},
 {10, 10, 20},
 {300, 5, 400},
 {3, 500, 600},
 {200, 200, 300},
 {300, 200, 300},
 {204, 300, 400},
 {1, 3000, 4000},
 {3000, 1, 4000},
} {
 m := test.m
 n := test.n
 lda := test.lda
 if lda == 0 {
  lda = n
 }
 a := make([]float64, m*lda)
 for i := range a {
  a[i] = rnd.Float64()
 }
 mn := min(m, n)
 ipiv := make([]int, mn)
 for i := range
ipiv {
  ipiv[i] = rnd.Int()
 }

 // Cannot compare the outputs of Dgetrf and Dgetf2 because the pivoting may
 // happen differently. Instead check that the LPQ factorization is correct.
 aCopy := make([]float64, len(a))
 copy(aCopy, a)
 ok := impl.Dgetrf(m, n, a, lda, ipiv)
 checkPLU(t, ok, m, n, lda, ipiv, a, aCopy, 1e-10, false)
}
}
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```

```
package path

import (
 "math"

 "gonum.org/v1/gonum/graph"
 "gonum.org/v1/gonum/graph/traverse"
)

// Weighted is a weighted graph. It is a subset of graph.Weighted.
type Weighted interface {
 // Weight returns the weight for the edge between
 // x and y with IDs xid and yid if Edge(xid, yid)
 // returns a non-nil Edge.
 // If x and y are the same node or there is no
 // joining edge between the two nodes the weight
 // value returned is implementation dependent.
 // Weight returns true if an edge exists between
 // x and y or if x and y have the same ID, false
 // otherwise.
 Weight(xid, yid int64) (w float64, ok bool)
}

// Weighting is a mapping between a pair of nodes and a weight. It follows the
// semantics of the Weighter interface.
type Weighting func(xid, yid int64) (w float64, ok bool)

// UniformCost returns a Weighting
 that returns an edge cost of 1 for existing
// edges, zero for node identity and Inf for otherwise absent edges.
func UniformCost(g traverse.Graph) Weighting {
 return func(xid, yid int64) (w float64, ok bool) {
  if xid == yid {
   return 0, true
  }
  if e := g.Edge(xid, yid); e != nil {
   return 1, true
  }
  return math.Inf(1), false
 }
}

// Heuristic returns an estimate of the cost of travelling between two nodes.
type Heuristic func(x, y graph.Node) float64

// HeuristicCoster wraps the HeuristicCost method. A graph implementing the
// interface provides a heuristic between any two given nodes.
type HeuristicCoster interface {
```

```
 HeuristicCost(x, y graph.Node) float64
}
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// Package dynamic provides incremental heuristic graph path finding functions.
package dynamic // import "gonum.org/v1/gonum/graph/path/dynamic"
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package gonum

import (
 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
)

// Dorgl2 generates an mn matrix Q with orthonormal rows defined by the
// first m rows product of elementary reflectors as computed by Dgelqf.
//  Q = H_0 * H_1 * ... * H_{k-1}
// len(tau) >= k, 0 <= k <= m, 0 <= m <= n, len(work) >= m.
// Dorgl2 will panic if these conditions are not met.
//
// Dorgl2 is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dorgl2(m, n, k int, a []float64, lda int, tau, work []float64) {
 switch {
 case m < 0:
  panic(mLT0)
 case n < m:
  panic(nLTM)
 case k < 0:
  panic(kLT0)
 case k > m:
  panic(kGTM)
 case lda < max(1, m):
  panic(badLdA)
 }

 if m == 0 {
  return
 }

 switch {
 case len(a) < (m-1)*lda+n:
  panic(shortA)
 case len(tau) < k:
```

```
 panic(shortTau)
case len(work)
< m:
 panic(shortWork)
}

bi := blas64.Implementation()

if k < m {
 for i := k; i < m; i++ {
  for j := 0; j < n; j++ {
   a[i*lda+j] = 0
  }
 }
 for j := k; j < m; j++ {
  a[j*lda+j] = 1
 }
}
for i := k - 1; i >= 0; i-- {
 if i < n-1 {
  if i < m-1 {
   a[i*lda+i] = 1
   impl.Dlarf(blas.Right, m-i-1, n-i, a[i*lda+i:], 1, tau[i], a[(i+1)*lda+i:], lda, work)
  }
  bi.Dscal(n-i-1, -tau[i], a[i*lda+i+1:], 1)
 }
 a[i*lda+i] = 1 - tau[i]
 for l := 0; l < i; l++ {
  a[i*lda+l] = 0
 }
}
}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "errors"
 "fmt"
 "math"
 "unicode/utf8"
)

// MagneticFlux represents a magnetic flux in Weber.
```

```
type MagneticFlux float64

const Weber MagneticFlux = 1

// Unit converts the MagneticFlux to a *Unit
func (m MagneticFlux) Unit() *Unit {
 return New(float64(m), Dimensions{
  CurrentDim: -1,
  LengthDim:  2,
  MassDim:    1,
  TimeDim:    -2,
 })
}

// MagneticFlux allows MagneticFlux to implement a MagneticFluxer interface
func (m MagneticFlux) MagneticFlux() MagneticFlux {
 return m
}

// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (m *MagneticFlux) From(u Uniter) error {
 if !DimensionsMatch(u, Weber) {
  *m = MagneticFlux(math.NaN())
  return errors.New("Dimension mismatch")
 }
 *m
 = MagneticFlux(u.Unit().Value())
 return nil
}

func (m MagneticFlux) Format(fs fmt.State, c rune) {
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", m, float64(m))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " Wb"
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(m))
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(m))
```

```
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(m))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(m))
  }
  fmt.Fprint(fs, unit)
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g Wb)", c, m, float64(m))
 }
}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "errors"
 "fmt"
 "math"
 "unicode/utf8"
)

// Resistance represents an electrical resistance, impedance or reactance in Ohms.
type Resistance float64

const Ohm Resistance = 1

// Unit converts the Resistance to a *Unit
func (r Resistance) Unit() *Unit {
 return New(float64(r), Dimensions{
  CurrentDim: -2,
  LengthDim:  2,
  MassDim:    1,
  TimeDim:    -3,
 })
}

// Resistance allows Resistance to implement a Resistancer interface
func (r Resistance) Resistance() Resistance {
 return r
}

// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (r *Resistance) From(u Uniter) error {
```

```
 if !DimensionsMatch(u, Ohm) {
  *r = Resistance(math.NaN())
  return errors.New("Dimension mismatch")
 }
 *r
 = Resistance(u.Unit().Value())
 return nil
}

func (r Resistance) Format(fs fmt.State, c rune) {
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", r, float64(r))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " "
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(r))
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(r))
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(r))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(r))
  }
  fmt.Fprint(fs, unit)
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g )", c, r, float64(r))
 }
}
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package network

const (
 A = iota
 B
 C
 D
 E
```

```
 F
 G
 H
 I
 J
 K
 L
 M
 N
 O
 P
 Q
 R
 S
 T
 U
 V
 W
 X
 Y
 Z
)

// set is an integer set.
type set map[int64]struct{}

func linksTo(i ...int64) set {
 if len(i) == 0 {
  return nil
 }
 s := make(set)
 for _, v := range i {
  s[v] = struct{}{}
 }
 return s
}
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package gonum

import (
 "math"

 "gonum.org/v1/gonum/blas/blas64"
)
```

```
// Dlarfg generates an elementary reflector for a Householder matrix. It creates
// a real elementary reflector of order n such that
//  H * (alpha) = (beta)
//      (    x)   (    0)
//  H * H = I
// H is represented in the form
//  H = 1 - tau * (1; v) * (1 v)
// where tau is a real scalar.
//
// On entry, x contains the vector x, on exit it contains v.
//
// Dlarfg is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dlarfg(n int, alpha float64, x []float64, incX int) (beta, tau float64) {
 switch {
 case n < 0:
  panic(nLT0)
 case incX <= 0:
  panic(badIncX)
 }

 if n <= 1 {
  return alpha, 0
 }

 if len(x) < 1+(n-2)*abs(incX) {
  panic(shortX)
 }

 bi := blas64.Implementation()

 xnorm := bi.Dnrm2(n-1, x, incX)
 if xnorm
 == 0 {
  return alpha, 0
 }
 beta = -math.Copysign(impl.Dlapy2(alpha, xnorm), alpha)
 safmin := dlamchS / dlamchE
 knt := 0
 if math.Abs(beta) < safmin {
  // xnorm and beta may be inaccurate, scale x and recompute.
  rsafmn := 1 / safmin
  for {
   knt++
   bi.Dscal(n-1, rsafmn, x, incX)
   beta *= rsafmn
   alpha *= rsafmn
   if math.Abs(beta) >= safmin {
    break
```

```
  }
 }
 xnorm = bi.Dnrm2(n-1, x, incX)
 beta = -math.Copysign(impl.Dlapy2(alpha, xnorm), alpha)
}
tau = (beta - alpha) / beta
bi.Dscal(n-1, 1/(alpha-beta), x, incX)
for j := 0; j < knt; j++ {
 beta *= safmin
}
return beta, tau
}
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// +build !amd64 noasm appengine safe

package f64

// DotUnitary is
//  for i, v := range x {
//   sum += y[i] * v
//  }
//  return sum
func DotUnitary(x, y []float64) (sum float64) {
 for i, v := range x {
  sum += y[i] * v
 }
 return sum
}

// DotInc is
//  for i := 0; i < int(n); i++ {
//   sum += y[iy] * x[ix]
//   ix += incX
//   iy += incY
//  }
//  return sum
func DotInc(x, y []float64, n, incX, incY, ix, iy uintptr) (sum float64) {
 for i := 0; i < int(n); i++ {
  sum += y[iy] * x[ix]
  ix += incX
  iy += incY
 }
 return sum
}
```

This set of codes generates tests for the dlasq* routines.

The high level routines are testdlasq*.f90. The testdlasq*.f90 routines are intended in combination with the routines in gonum/lapack/testlapack.
During execution, these high-level routines record the inputs and outputs
to the executed subroutines. For example, testdlasq3, when executed,
generates files gen4tests.txt and gen5tests.txt that record the inputs
and outputs to the evaluation of dlasq4 and dlasq5 respectively. The output
format in gen*tests.txt is the struct literal that matches the respective test
in gonum/lapack/testlapack/dlasq*.go. Thus, these generated tests can be copied
into the testing routine to test the native implementation.

The testing routines in testlapack have code for generating inputs for these
fortran routines. Typically, one would isolate the particular failing test,
and modify the testlapack routine to print it to the terminal, for example
in testlapack/dlasq3.go one might add

```
  printDlasq3FortranInput(test)
   os.Exit(1)
```

This prints variable initialization for dlasq3 routine to the terminal, which
can be copied and pasted into testdlasq3.f90. Please note that this process
is not completely automated. Some of the other initialization may need to
change, particularly the size allocation of the data array(s).
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// Package lapack64 provides a set of convenient wrapper functions for LAPACK
// calls, as specified in the netlib standard (www.netlib.org).
//
// The native Go routines are used by default, and the Use function can be used
// to set an alternative implementation.
//
// If the type of matrix (General, Symmetric, etc.) is known and fixed, it is
// used in the wrapper signature. In many cases, however, the type of the matrix
// changes during the call to the routine, for example the matrix is symmetric on
// entry and is triangular on exit. In these cases the correct types should be checked
// in the documentation.
//
// The full set of Lapack functions is very large, and it is not clear that a
// full implementation is desirable, let alone feasible. Please open up an issue
// if there is a specific function you need and/or are
 willing to implement.
package lapack64 // import "gonum.org/v1/gonum/lapack/lapack64"
// SPDX-License-Identifier: Unlicense OR MIT

package text

```
import (
 "strconv"
 "testing"

 "gioui.org/op"
)

func TestLayoutLRU(t *testing.T) {
 c := new(layoutCache)
 put := func(i int) {
  c.Put(layoutKey{str: strconv.Itoa(i)}, nil)
 }
 get := func(i int) bool {
  _, ok := c.Get(layoutKey{str: strconv.Itoa(i)})
  return ok
 }
 testLRU(t, put, get)
}

func TestPathLRU(t *testing.T) {
 c := new(pathCache)
 put := func(i int) {
  c.Put(pathKey{str: strconv.Itoa(i)}, op.CallOp{})
 }
 get := func(i int) bool {
  _, ok := c.Get(pathKey{str: strconv.Itoa(i)})
  return ok
 }
 testLRU(t, put, get)
}

func testLRU(t *testing.T, put func(i int), get func(i int) bool) {
 for i := 0; i < maxSize; i++ {
  put(i)
 }
 for i := 0; i < maxSize; i++ {
  if !get(i) {
   t.Fatalf("key %d was evicted", i)
  }
 }
 put(maxSize)
 for i := 1; i < maxSize+1; i++ {
  if !get(i) {
   t.Fatalf("key %d was evicted", i)
  }
 }
 if i := 0; get(i) {
```

```
  t.Fatalf("key %d was not evicted", i)
 }
}
```

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// Package path provides graph path finding functions.
package path // import "gonum.org/v1/gonum/graph/path"

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// Universal Public Domain Dedication.

```
package parser

import (
 "fmt"
)

type action interface {
 act()
 String() string
}

type (
 accept bool
 shift  int // value is next state index
 reduce int // value is production index
)

func (this accept) act() {}
func (this shift) act()  {}
func (this reduce) act() {}

func (this accept) Equal(that action) bool {
 if _, ok := that.(accept); ok {
  return true
 }
 return false
}

func (this reduce) Equal(that action) bool {
 that1, ok := that.(reduce)
 if !ok {
  return false
 }
 return this == that1
}

func (this shift) Equal(that action) bool {
 that1, ok := that.(shift)
 if !ok
 {
  return false
 }
 return this == that1
}

func (this accept) String() string { return "accept(0)" }
func (this shift) String() string  { return fmt.Sprintf("shift:%d", this) }
```

```
func (this reduce) String() string {
 return fmt.Sprintf("reduce:%d(%s)", this, productionsTable[this].String)
}
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// Package fftpack implements Discrete Fourier Transform functions
// ported from the Fortran implementation of FFTPACK.
package fftpack // import "gonum.org/v1/gonum/fourier/internal/fftpack"
// Code generated by "go generate gonum.org/v1/gonum/blas/gonum; DO NOT EDIT.

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package gonum

import (
 "gonum.org/v1/gonum/internal/asm/f32"
)

// Dsdot computes the dot product of the two vectors
//  \sum_i x[i]*y[i]
//
// Float32 implementations are autogenerated and not directly tested.
func (Implementation) Dsdot(n int, x []float32, incX int, y []float32, incY int) float64 {
 if incX == 0 {
  panic(zeroIncX)
 }
 if incY == 0 {
  panic(zeroIncY)
 }
 if n <= 0 {
  if n == 0 {
   return 0
  }
  panic(nLT0)
 }
 if incX == 1 && incY == 1 {
  if len(x) < n {
   panic(shortX)
  }
  if len(y) < n {
   panic(shortY)
  }
  return f32.DdotUnitary(x[:n], y[:n])
 }
```

```
 var ix, iy int
 if incX < 0 {
  ix = (-n + 1) * incX
 }
 if incY < 0 {
  iy = (-n + 1) * incY
 }
 if ix >= len(x) || ix+(n-1)*incX >= len(x) {
  panic(shortX)
 }
 if iy >=
 len(y) || iy+(n-1)*incY >= len(y) {
  panic(shortY)
 }
 return f32.DdotInc(x, y, uintptr(n), uintptr(incX), uintptr(incY), uintptr(ix), uintptr(iy))
}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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// license that can be found in the LICENSE file.

package unit

import (
 "fmt"
 "testing"
)

func TestTimeFormat(t *testing.T) {
 for _, test := range []struct {
  value  Time
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 s"},
  {1.23456789, "%.1v", "1 s"},
  {1.23456789, "%20.1v", "                 1 s"},
  {1.23456789, "%20v", "        1.23456789 s"},
  {1.23456789, "%1v", "1.23456789 s"},
  {1.23456789, "%#v", "unit.Time(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Time=1.23456789 s)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
```

```
}
// SPDX-License-Identifier: Unlicense OR MIT

package widget

import (
 "time"

 "gioui.org/f32"
 "gioui.org/gesture"
 "gioui.org/layout"
 "gioui.org/op"
)

type Button struct {
 click gesture.Click
 // clicks tracks the number of unreported clicks.
 clicks int
 // prevClicks tracks the number of unreported clicks
 // that belong to the previous frame.
 prevClicks int
 history    []Click
}

// Click represents a historic click.
type Click struct {
 Position f32.Point
 Time     time.Time
}

func (b *Button) Clicked(gtx *layout.Context) bool {
 b.processEvents(gtx)
 if b.clicks > 0 {
  b.clicks--
  if b.prevClicks > 0 {
   b.prevClicks--
  }
  if b.clicks > 0 {
   // Ensure timely delivery of remaining clicks.
   op.InvalidateOp{}.Add(gtx.Ops)
  }
  return true
 }
 return false
}

func (b *Button) History() []Click {
 return b.history
```

```
}

func (b *Button) Layout(gtx *layout.Context) {
 // Flush clicks from before the previous frame.
 b.clicks -= b.prevClicks
 b.prevClicks = 0
 b.processEvents(gtx)
 b.click.Add(gtx.Ops)
 for
 len(b.history) > 0 {
  c := b.history[0]
  if gtx.Now().Sub(c.Time) < 1*time.Second {
   break
  }
  copy(b.history, b.history[1:])
  b.history = b.history[:len(b.history)-1]
 }
}

func (b *Button) processEvents(gtx *layout.Context) {
 for _, e := range b.click.Events(gtx) {
  switch e.Type {
  case gesture.TypeClick:
   b.clicks++
  case gesture.TypePress:
   b.history = append(b.history, Click{
    Position: e.Position,
    Time:     gtx.Now(),
   })
  }
 }
}
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package gonum

import (
 "testing"

 "gonum.org/v1/gonum/blas/testblas"
)

func TestZgbmv(t *testing.T) {
 testblas.ZgbmvTest(t, impl)
}
```

```
func TestZgemv(t *testing.T) {
 testblas.ZgemvTest(t, impl)
}

func TestZgerc(t *testing.T) {
 testblas.ZgercTest(t, impl)
}

func TestZgeru(t *testing.T) {
 testblas.ZgeruTest(t, impl)
}

func TestZhbmv(t *testing.T) {
 testblas.ZhbmvTest(t, impl)
}

func TestZhemv(t *testing.T) {
 testblas.ZhemvTest(t, impl)
}

func TestZher(t *testing.T) {
 testblas.ZherTest(t, impl)
}

func TestZher2(t *testing.T) {
 testblas.Zher2Test(t, impl)
}

func TestZhpmv(t *testing.T) {
 testblas.ZhpmvTest(t, impl)
}

func TestZhpr(t *testing.T) {
 testblas.ZhprTest(t, impl)
}

func TestZhpr2(t *testing.T) {
 testblas.Zhpr2Test(t, impl)
}

func TestZtbmv(t *testing.T) {
 testblas.ZtbmvTest(t, impl)
}

func TestZtbsv(t
 *testing.T) {
 testblas.ZtbsvTest(t, impl)
}
```

```
func TestZtpmv(t *testing.T) {
 testblas.ZtpmvTest(t, impl)
}

func TestZtpsv(t *testing.T) {
 testblas.ZtpsvTest(t, impl)
}

func TestZtrmv(t *testing.T) {
 testblas.ZtrmvTest(t, impl)
}

func TestZtrsv(t *testing.T) {
 testblas.ZtrsvTest(t, impl)
}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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// license that can be found in the LICENSE file.

package unit

import (
 "errors"
 "fmt"
 "math"
 "unicode/utf8"
)

// Capacitance represents an electrical capacitance in Farads.
type Capacitance float64

const Farad Capacitance = 1

// Unit converts the Capacitance to a *Unit
func (cp Capacitance) Unit() *Unit {
 return New(float64(cp), Dimensions{
  CurrentDim: 2,
  LengthDim:  -2,
  MassDim:    -1,
  TimeDim:    4,
 })
}

// Capacitance allows Capacitance to implement a Capacitancer interface
func (cp Capacitance) Capacitance() Capacitance {
```

```
 return cp
}

// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (cp *Capacitance) From(u Uniter) error {
 if !DimensionsMatch(u, Farad) {
  *cp = Capacitance(math.NaN())
  return errors.New("Dimension mismatch")
 }
 *cp
 = Capacitance(u.Unit().Value())
 return nil
}

func (cp Capacitance) Format(fs fmt.State, c rune) {
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", cp, float64(cp))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " F"
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(cp))
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(cp))
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(cp))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(cp))
  }
  fmt.Fprint(fs, unit)
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g F)", c, cp, float64(cp))
 }
}
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// +build go1.12
```

```
package gonum

import (
 "fmt"
 "runtime/debug"
)

const root = "gonum.org/v1/gonum"

// Version returns the version of Gonum and its checksum. The returned
// values are only valid in binaries built with module support.
//
// If a replace directive exists in the Gonum go.mod, the replace will
// be reported in the version in the following format:
//  "version=>[replace-path] [replace-version]"
// and the replace sum will be returned in place of the original sum.
//
// The exact version format returned by Version may change in future.
func Version() (version, sum string) {
 b, ok := debug.ReadBuildInfo()
 if !ok {
  return "", ""
 }
 for _, m := range b.Deps {
  if m.Path == root {
   if m.Replace != nil {
    switch {
    case m.Replace.Version != "" && m.Replace.Path != "":
     return fmt.Sprintf("%s=>%s %s",
 m.Version, m.Replace.Path, m.Replace.Version), m.Replace.Sum
    case m.Replace.Version != "":
     return fmt.Sprintf("%s=>%s", m.Version, m.Replace.Version), m.Replace.Sum
    case m.Replace.Path != "":
     return fmt.Sprintf("%s=>%s", m.Version, m.Replace.Path), m.Replace.Sum
    default:
     return m.Version + "*", m.Sum + "*"
    }
   }
   return m.Version, m.Sum
  }
 }
 return "", ""
}
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// Package astx implements utility functions for generating abstract syntax
```

```
// trees of Graphviz DOT graphs.
package astx // import "gonum.org/v1/gonum/graph/formats/dot/internal/astx"
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package unit

const (
 Yotta = 1e24
 Zetta = 1e21
 Exa   = 1e18
 Peta  = 1e15
 Tera  = 1e12
 Giga  = 1e9
 Mega  = 1e6
 Kilo  = 1e3
 Hecto = 1e2
 Deca  = 1e1

 Deci  = 1e-1
 Centi = 1e-2
 Milli = 1e-3
 Micro = 1e-6
 Nano  = 1e-9
 Pico  = 1e-12
 Femto = 1e-15
 Atto  = 1e-18
 Zepto = 1e-21
 Yocto = 1e-24
)
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "errors"
 "fmt"
 "math"
 "unicode/utf8"
)

// Voltage represents a voltage in Volts.
type Voltage float64
```

```
const Volt Voltage = 1

// Unit converts the Voltage to a *Unit
func (v Voltage) Unit() *Unit {
 return New(float64(v), Dimensions{
  CurrentDim: -1,
  LengthDim:  2,
  MassDim:    1,
  TimeDim:    -3,
 })
}

// Voltage allows Voltage to implement a Voltager interface
func (v Voltage) Voltage() Voltage {
 return v
}

// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (v *Voltage) From(u Uniter) error {
 if !DimensionsMatch(u, Volt) {
  *v = Voltage(math.NaN())
  return errors.New("Dimension mismatch")
 }
 *v = Voltage(u.Unit().Value())
 return nil
}

func (v Voltage)
 Format(fs fmt.State, c rune) {
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", v, float64(v))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " V"
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(v))
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(v))
  case wOk:
```

```
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(v))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(v))
  }
  fmt.Fprint(fs, unit)
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g V)", c, v, float64(v))
 }
}
// SPDX-License-Identifier: Unlicense OR MIT

package fling

import "testing"

func TestDecomposeQR(t *testing.T) {
 A := &matrix{
  rows: 3, cols: 3,
  data: []float32{
   12, 6, -4,
   -51, 167, 24,
   4, -68, -41,
  },
 }
 Q, Rt, ok := decomposeQR(A)
 if !ok {
  t.Fatal("decomposeQR failed")
 }
 R := Rt.transpose()
 QR := Q.mul(R)
 if !A.approxEqual(QR) {
  t.Log("A\n", A)
  t.Log("Q\n", Q)
  t.Log("R\n", R)
  t.Log("QR\n", QR)
  t.Fatal("Q*R not approximately equal to A")
 }
}

func TestFit(t *testing.T) {
 X := []float32{-1, 0, 1}
 Y := []float32{2, 0, 2}

 got, ok := polyFit(X, Y)
 if !ok {
  t.Fatal("polyFit failed")
 }
 want := coefficients{0, 0, 2}
```

```
 if !got.approxEqual(want) {
  t.Fatalf("polyFit: got %v want %v", got, want)
 }
}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "fmt"
 "testing"
)

func TestMagneticFluxFormat(t *testing.T) {
 for _, test := range []struct {
  value  MagneticFlux
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 Wb"},
  {1.23456789, "%.1v", "1 Wb"},
  {1.23456789, "%20.1v", "                 1 Wb"},
  {1.23456789, "%20v", "       1.23456789 Wb"},
  {1.23456789, "%1v", "1.23456789 Wb"},
  {1.23456789, "%#v", "unit.MagneticFlux(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.MagneticFlux=1.23456789 Wb)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
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package stat_test

import (
 "fmt"

 "golang.org/x/exp/rand"
```

```
 "gonum.org/v1/gonum/stat"
)

func ExampleLinearRegression() {
 var (
  xs      = make([]float64, 100)
  ys      = make([]float64, 100)
  weights []float64
 )

 line := func(x float64) float64 {
  return 1 + 3*x
 }

 for i := range xs {
  xs[i] = float64(i)
  ys[i] = line(xs[i]) + 0.1*rand.NormFloat64()
 }

 // Do not force the regression line to pass through the origin.
 origin := false

 alpha, beta := stat.LinearRegression(xs, ys, weights, origin)
 r2 := stat.RSquared(xs, ys, weights, alpha, beta)

 fmt.Printf("Estimated slope is:  %v\n", alpha)
 fmt.Printf("Estimated offset is: %v\n", beta)
 fmt.Printf("R^2: %v\n", r2)

 // Output:
 // Estimated slope is:  0.988572424633503
 // Estimated offset is: 3.0001541344029676
 // R^2: 0.9999991095061128
}
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package gonum

// Dcombssq adds two scaled sum-of-squares quantities, V := V1 + V2,
//  V_scale^2 * V_ssq := V1_scale^2 * V1_ssq + V2_scale^2 * V2_ssq
// and returns the result V.
//
// Dcombssq is an internal routine. It is exported for testing purposes.
func (Implementation) Dcombssq(scale1, ssq1, scale2, ssq2 float64) (scale, ssq float64) {
 if scale1 >= scale2 {
  if scale1 != 0 {
```

```
  return scale1, ssq1 + (scale2/scale1)*(scale2/scale1)*ssq2
 }
 // If the input is non-negative and we are here, then scale2 must inevitably be 0, too.
 return 0, 0
}
return scale2, ssq2 + (scale1/scale2)*(scale1/scale2)*ssq1
}
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// Package math32 provides float32 versions of standard library math package
// routines used by gonum/blas/native.
package math32 // import "gonum.org/v1/gonum/internal/math32"
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package gonum

import (
 "math"

 "gonum.org/v1/gonum/lapack"
)

// Dlanst computes the specified norm of a symmetric tridiagonal matrix A.
// The diagonal elements of A are stored in d and the off-diagonal elements
// are stored in e.
func (impl Implementation) Dlanst(norm lapack.MatrixNorm, n int, d, e []float64) float64 {
 switch {
 case norm != lapack.MaxRowSum && norm != lapack.MaxColumnSum && norm != lapack.Frobenius && norm
!= lapack.MaxAbs:
  panic(badNorm)
 case n < 0:
  panic(nLT0)
 }
 if n == 0 {
  return 0
 }
 switch {
 case len(d) < n:
  panic(shortD)
 case len(e) < n-1:
  panic(shortE)
 }

 switch norm {
```

```
 default:
  panic(badNorm)
 case lapack.MaxAbs:
  anorm := math.Abs(d[n-1])
  for i := 0; i < n-1; i++ {
   sum := math.Abs(d[i])
   if anorm < sum || math.IsNaN(sum) {
    anorm = sum
   }
   sum = math.Abs(e[i])
   if
 anorm < sum || math.IsNaN(sum) {
    anorm = sum
   }
  }
  return anorm
 case lapack.MaxColumnSum, lapack.MaxRowSum:
  if n == 1 {
   return math.Abs(d[0])
  }
  anorm := math.Abs(d[0]) + math.Abs(e[0])
  sum := math.Abs(e[n-2]) + math.Abs(d[n-1])
  if anorm < sum || math.IsNaN(sum) {
   anorm = sum
  }
  for i := 1; i < n-1; i++ {
   sum := math.Abs(d[i]) + math.Abs(e[i]) + math.Abs(e[i-1])
   if anorm < sum || math.IsNaN(sum) {
    anorm = sum
   }
  }
  return anorm
 case lapack.Frobenius:
  var scale float64
  sum := 1.0
  if n > 1 {
   scale, sum = impl.Dlassq(n-1, e, 1, scale, sum)
   sum = 2 * sum
  }
  scale, sum = impl.Dlassq(n, d, 1, scale, sum)
  return scale * math.Sqrt(sum)
 }
}
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package gonum
```

```
// Panic strings used during parameter checks.
// This list is duplicated in netlib/blas/netlib. Keep in sync.
const (
 zeroIncX = "blas: zero x index increment"
 zeroIncY = "blas: zero y index increment"

 mLT0  = "blas: m < 0"
 nLT0  = "blas: n < 0"
 kLT0  = "blas: k < 0"
 kLLT0 = "blas: kL < 0"
 kULT0 = "blas: kU < 0"

 badUplo      = "blas: illegal triangle"
 badTranspose = "blas: illegal transpose"
 badDiag      = "blas: illegal diagonal"
 badSide      = "blas: illegal side"
 badFlag      = "blas: illegal rotm flag"

 badLdA = "blas: bad leading dimension of A"
 badLdB = "blas: bad leading dimension of B"
 badLdC = "blas: bad leading dimension of C"

 shortX  = "blas: insufficient length of x"
 shortY  = "blas: insufficient length of y"
 shortAP = "blas: insufficient length of ap"
 shortA  = "blas: insufficient
 length of a"
 shortB  = "blas: insufficient length of b"
 shortC  = "blas: insufficient length of c"
)
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "fmt"
 "testing"
)

func TestLengthFormat(t *testing.T) {
 for _, test := range []struct {
  value  Length
  format string
```

```
 want   string
 }{
  {1.23456789, "%v", "1.23456789 m"},
  {1.23456789, "%.1v", "1 m"},
  {1.23456789, "%20.1v", "                 1 m"},
  {1.23456789, "%20v", "        1.23456789 m"},
  {1.23456789, "%1v", "1.23456789 m"},
  {1.23456789, "%#v", "unit.Length(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Length=1.23456789 m)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "fmt"
 "testing"
)

func TestPowerFormat(t *testing.T) {
 for _, test := range []struct {
  value  Power
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 W"},
  {1.23456789, "%.1v", "1 W"},
  {1.23456789, "%20.1v", "                 1 W"},
  {1.23456789, "%20v", "        1.23456789 W"},
  {1.23456789, "%1v", "1.23456789 W"},
  {1.23456789, "%#v", "unit.Power(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Power=1.23456789 W)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
```

```
}
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// Package ordered provides common sort ordering types.
package ordered // import "gonum.org/v1/gonum/graph/internal/ordered"
// Code generated by "go generate gonum.org/v1/gonum/unit/constant; DO NOT EDIT.

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package constant

import (
 "fmt"

 "gonum.org/v1/gonum/unit"
)

// ElectricConstant is the electric constant (), the value of the absolute dielectric permittivity of classical vacuum.
// The dimensions of ElectricConstant are A^2 s^4 kg^-1 m^-3. The standard uncertainty of the constant is 1.3e-21
A^2 s^4 kg^-1 m^-3.
const ElectricConstant = electricConstantUnits(8.854187817620389e-12)

type electricConstantUnits float64

// Unit converts the electricConstantUnits to a *unit.Unit
func (cnst electricConstantUnits) Unit() *unit.Unit {
 return unit.New(float64(cnst), unit.Dimensions{
  unit.CurrentDim: 2,
  unit.TimeDim:    4,
  unit.MassDim:    -1,
  unit.LengthDim:  -3,
 })
}

func (cnst electricConstantUnits) Format(fs fmt.State, c rune) {
 switch
 c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", cnst, float64(cnst))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
```

```
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), w, p, cnst.Unit())
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, cnst.Unit())
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), w, cnst.Unit())
  default:
   fmt.Fprintf(fs, "%"+string(c), cnst.Unit())
  }
 default:
  fmt.Fprintf(fs, "%%!"+string(c)+"(constant.electricConstantUnits=%v A^2 s^4 kg^-1 m^-3)", float64(cnst))
 }
}
// SPDX-License-Identifier: Unlicense OR MIT

// +build linux freebsd windows

package headless

import (
 "gioui.org/app/internal/egl"
)

func newContext() (context, error) {
 return egl.NewContext(egl.EGL_DEFAULT_DISPLAY)
}
// Code generated by "go generate gonum.org/v1/gonum/unit/constant; DO NOT EDIT.

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package constant

import (
 "fmt"
 "testing"
)

func TestPlanckFormat(t *testing.T) {
 for _, test := range []struct {
  format string
  want   string
 }{
  {"%v", "6.62607015e-34 kg m^2 s^-1"},
```

```
  {"%.1v", "7e-34 kg m^2 s^-1"},
  {"%50.1v", "                          7e-34 kg m^2 s^-1"},
  {"%50v", "                    6.62607015e-34 kg m^2 s^-1"},
  {"%1v", "6.62607015e-34 kg m^2 s^-1"},
  {"%#v", "constant.planckUnits(6.62607015e-34)"},
  {"%s", "%!s(constant.planckUnits=6.62607015e-34 kg m^2 s^-1)"},
 } {
  got := fmt.Sprintf(test.format, Planck)
  if got != test.want {
   t.Errorf("Format %q: got: %q want: %q", test.format, got, test.want)
  }
 }
}
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// This file must be kept in sync with array_bound_checks.go.

// +build !bounds

package fftpack

// The types in array.go implement Fortran-like arrays for bootstrapping
// the implementation of the FFT functions translated from FFTPACK; they
// are column-major.

type twoArray struct {
 jStride int
 data    []float64
}

func newTwoArray(i, j int, data []float64) twoArray {
 if len(data) < i*j {
  panic("fourier: short data")
 }
 return twoArray{
  jStride: i,
  data:    data[:i*j],
 }
}

func (a twoArray) at(i, j int) float64 {
 return a.data[i+a.jStride*j]
}

func (a twoArray) set(i, j int, v float64) {
 a.data[i+a.jStride*j] = v
```

```
}

func (a twoArray) add(i, j int, v float64) {
 a.data[i+a.jStride*j] += v
}

type threeArray struct {
 jStride, kStride int
 data            []float64
}

func newThreeArray(i, j, k int, data []float64)
 threeArray {
 if len(data) < i*j*k {
  panic("fourier: short data")
 }
 return threeArray{
  jStride: i,
  kStride: i * j,
  data:    data[:i*j*k],
 }
}

func (a threeArray) at(i, j, k int) float64 {
 return a.data[i+a.jStride*j+a.kStride*k]
}

func (a threeArray) set(i, j, k int, v float64) {
 a.data[i+a.jStride*j+a.kStride*k] = v
}
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package unit

import (
 "fmt"
 "testing"
)

func TestChargeFormat(t *testing.T) {
 for _, test := range []struct {
  value  Charge
  format string
  want   string
```

```
 }{
  {1.23456789, "%v", "1.23456789 C"},
  {1.23456789, "%.1v", "1 C"},
  {1.23456789, "%20.1v", "                 1 C"},
  {1.23456789, "%20v", "        1.23456789 C"},
  {1.23456789, "%1v", "1.23456789 C"},
  {1.23456789, "%#v", "unit.Charge(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Charge=1.23456789 C)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "fmt"
 "testing"
)

func TestForceFormat(t *testing.T) {
 for _, test := range []struct {
  value  Force
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 N"},
  {1.23456789, "%.1v", "1 N"},
  {1.23456789, "%20.1v", "                 1 N"},
  {1.23456789, "%20v", "        1.23456789 N"},
  {1.23456789, "%1v", "1.23456789 N"},
  {1.23456789, "%#v", "unit.Force(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Force=1.23456789 N)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
```

```
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// Package points standard output, standard error and the standard
// library package log to the platform logger.
package log
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "errors"
 "fmt"
 "math"
 "unicode/utf8"
)

// Pressure represents a pressure in Pascals.
type Pressure float64

const Pascal Pressure = 1

// Unit converts the Pressure to a *Unit
func (pr Pressure) Unit() *Unit {
 return New(float64(pr), Dimensions{
  LengthDim: -1,
  MassDim:   1,
  TimeDim:   -2,
 })
}

// Pressure allows Pressure to implement a Pressurer interface
func (pr Pressure) Pressure() Pressure {
 return pr
}

// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (pr *Pressure) From(u Uniter) error {
 if !DimensionsMatch(u, Pascal) {
  *pr = Pressure(math.NaN())
  return errors.New("Dimension mismatch")
 }
 *pr = Pressure(u.Unit().Value())
 return nil
```

```
}

func (pr
 Pressure) Format(fs fmt.State, c rune) {
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", pr, float64(pr))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " Pa"
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(pr))
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(pr))
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(pr))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(pr))
  }
  fmt.Fprint(fs, unit)
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g Pa)", c, pr, float64(pr))
 }
}
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// Package gonum contains functions implemented by the gonum team.
// It is here to avoid circular imports and/or double coding of functions.
package gonum // import "gonum.org/v1/gonum/mathext/internal/gonum"
// Code generated by "go generate gonum.org/v1/gonum/unit/constant; DO NOT EDIT.

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package constant

import "gonum.org/v1/gonum/unit"

// LightSpeedInVacuum is the c constant, the speed of light in a vacuum.
```

```
// The dimensions of LightSpeedInVacuum are m s^-1. The constant is exact.
const LightSpeedInVacuum = unit.Velocity(2.99792458e+08)
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package distuv

import (
 "math"
 "sort"
 "testing"

 "golang.org/x/exp/rand"
)

func TestTriangleConstraint(t *testing.T) {
 defer func() {
  if r := recover(); r == nil {
   t.Errorf("The constraints were violated, but not caught")
  }
 }()

 // test b < a
 NewTriangle(3, 1, 2, nil)
 // test c > b
 NewTriangle(1, 2, 3, nil)
}

func TestTriangle(t *testing.T) {
 src := rand.New(rand.NewSource(1))
 for i, test := range []struct {
  a, b, c float64
 }{
  {
   a: 0.0,
   b: 1.0,
   c: 0.5,
  },
  {
   a: 0.1,
   b: 0.3,
   c: 0.2,
  },
  {
   a: 1.0,
   b: 2.0,
   c: 1.5,
```

```
  },
  {
   a: 0.0,
   b: 1.0,
   c: 0.0,
  },
 } {
  f := NewTriangle(test.a, test.b, test.c, src)
  const (
   tol = 1e-2
   n   = 1e6
  )
  x := make([]float64, n)
  generateSamples(x, f)
  sort.Float64s(x)

  checkMean(t, i, x, f, tol)
  checkVarAndStd(t, i,
 x, f, tol)
  checkEntropy(t, i, x, f, tol)
  checkExKurtosis(t, i, x, f, tol)
  checkSkewness(t, i, x, f, 5e-2)
  checkMedian(t, i, x, f, tol)
  checkQuantileCDFSurvival(t, i, x, f, tol)
  checkProbContinuous(t, i, x, f, 1e-10)
  checkProbQuantContinuous(t, i, x, f, tol)
 }
}

func TestTriangleProb(t *testing.T) {
 pts := []univariateProbPoint{
  {
   loc:     0.5,
   prob:    0,
   cumProb: 0,
   logProb: math.Inf(-1),
  },
  {
   loc:     1,
   prob:    0,
   cumProb: 0,
   logProb: math.Inf(-1),
  },
  {
   loc:     2,
   prob:    1.0,
   cumProb: 0.5,
   logProb: 0,
```

```
  },
  {
   loc:     3,
   prob:    0,
   cumProb: 1,
   logProb: math.Inf(-1),
  },
 }
 testDistributionProbs(t, NewTriangle(1, 3, 2, nil), "Standard 1,2,3 Triangle", pts)
}
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// Package profiles provides access to rendering
// profiles.
package profile

import (
 "gioui.org/internal/opconst"
 "gioui.org/io/event"
 "gioui.org/op"
)

// Op registers a handler for receiving
// Events.
type Op struct {
 Key event.Key
}

// Event contains profile data from a single
// rendered frame.
type Event struct {
 // Timings. Very likely to change.
 Timings string
}

func (p Op) Add(o *op.Ops) {
 data := o.Write(opconst.TypeProfileLen, p.Key)
 data[0] = byte(opconst.TypeProfile)
}

func (p Event) ImplementsEvent() {}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit
```

```
import (
 "fmt"
 "testing"
)

func TestMoleFormat(t *testing.T) {
 for _, test := range []struct {
  value  Mole
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 mol"},
  {1.23456789, "%.1v", "1 mol"},
  {1.23456789, "%20.1v", "               1 mol"},
  {1.23456789, "%20v", "      1.23456789 mol"},
  {1.23456789, "%1v", "1.23456789 mol"},
  {1.23456789, "%#v", "unit.Mole(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Mole=1.23456789 mol)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "errors"
 "fmt"
 "math"
 "unicode/utf8"
)

// Conductance represents an electrical conductance in Siemens.
type Conductance float64

const Siemens Conductance = 1

// Unit converts the Conductance to a *Unit
func (co Conductance) Unit() *Unit {
```

```
 return New(float64(co), Dimensions{
  CurrentDim: 2,
  LengthDim:  -2,
  MassDim:    -1,
  TimeDim:    3,
 })
}

// Conductance allows Conductance to implement a Conductancer interface
func (co Conductance) Conductance() Conductance {
 return co
}

// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (co *Conductance) From(u Uniter) error {
 if !DimensionsMatch(u, Siemens) {
  *co = Conductance(math.NaN())
  return errors.New("Dimension
 mismatch")
 }
 *co = Conductance(u.Unit().Value())
 return nil
}

func (co Conductance) Format(fs fmt.State, c rune) {
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", co, float64(co))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " S"
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(co))
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(co))
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(co))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(co))
  }
  fmt.Fprint(fs, unit)
```

```
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g S)", c, co, float64(co))
 }
}
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// +build !android,!go1.13

package app

import "os"

func dataDir() (string, error) {
 // Use a quick workaround until we can require go 1.13.
 return os.UserHomeDir()
}
```

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```
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package mathext

import "math"
```

```
const (
 logPi = 1.1447298858494001741434273513530587116472948 1 // http://oeis.org/A053510
)

// MvLgamma returns the log of the multivariate Gamma function. Dim
// must be greater than zero, and MvLgamma will return NaN if v < (dim-1)/2.
//
// See https://en.wikipedia.org/wiki/Multivariate_gamma_function for more
// information.
func MvLgamma(v float64, dim int) float64 {
 if dim < 1 {
  panic("mathext: negative dimension")
 }
 df := float64(dim)
 if v < (df-1)*0.5 {
  return math.NaN()
 }
 ans := df * (df - 1) * 0.25 * logPi
 for i := 1; i <= dim; i++ {
  lg, _ := math.Lgamma(v + float64(1-i)*0.5)
  ans += lg
 }
 return ans
}
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package topo

import (
 "gonum.org/v1/gonum/graph"
 "gonum.org/v1/gonum/graph/internal/linear"
 "gonum.org/v1/gonum/graph/internal/set"
)

// UndirectedCyclesIn returns a set of cycles that forms a cycle basis in the graph g.
// Any cycle in g can be constructed as a symmetric difference of its elements.
func UndirectedCyclesIn(g graph.Undirected) [][]graph.Node {
 // From "An algorithm for finding a fundamental set of cycles of a graph"
 // https://doi.org/10.1145/363219.363232

 var cycles [][]graph.Node
 done := make(set.Int64s)
 var tree linear.NodeStack
 nodes := g.Nodes()
 for nodes.Next() {
```

```
 n := nodes.Node()
 id := n.ID()
 if done.Has(id) {
  continue
 }
 done.Add(id)

 tree = tree[:0]
 tree.Push(n)
 from := sets{id: set.Int64s{}}
 to := map[int64]graph.Node{id: n}

 for tree.Len() != 0 {
  u := tree.Pop()
  uid
:= u.ID()
  adj := from[uid]
  for _, v := range graph.NodesOf(g.From(uid)) {
   vid := v.ID()
   switch {
   case uid == vid:
    cycles = append(cycles, []graph.Node{u})
   case !from.has(vid):
    done.Add(vid)
    to[vid] = u
    tree.Push(v)
    from.add(uid, vid)
   case !adj.Has(vid):
    c := []graph.Node{v, u}
    adj := from[vid]
    p := to[uid]
    for !adj.Has(p.ID()) {
     c = append(c, p)
     p = to[p.ID()]
    }
    c = append(c, p, c[0])
    cycles = append(cycles, c)
    adj.Add(uid)
   }
  }
 }
}

return cycles
}

type sets map[int64]set.Int64s
```

```
func (s sets) add(uid, vid int64) {
 e, ok := s[vid]
 if !ok {
  e = make(set.Int64s)
  s[vid] = e
 }
 e.Add(uid)
}

func (s sets) has(uid int64) bool {
 _, ok := s[uid]
 return ok
}
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package gonum

import (
 "testing"

 "gonum.org/v1/gonum/blas/testblas"
)

func BenchmarkDgemmSmSmSm(b *testing.B) {
 testblas.DgemmBenchmark(b, impl, Sm, Sm, Sm, NT, NT)
}

func BenchmarkDgemmMedMedMed(b *testing.B) {
 testblas.DgemmBenchmark(b, impl, Med, Med, Med, NT, NT)
}

func BenchmarkDgemmMedLgMed(b *testing.B) {
 testblas.DgemmBenchmark(b, impl, Med, Lg, Med, NT, NT)
}

func BenchmarkDgemmLgLgLg(b *testing.B) {
 testblas.DgemmBenchmark(b, impl, Lg, Lg, Lg, NT, NT)
}

func BenchmarkDgemmLgSmLg(b *testing.B) {
 testblas.DgemmBenchmark(b, impl, Lg, Sm, Lg, NT, NT)
}

func BenchmarkDgemmLgLgSm(b *testing.B) {
 testblas.DgemmBenchmark(b, impl, Lg, Lg, Sm, NT, NT)
}
```

```
func BenchmarkDgemmHgHgSm(b *testing.B) {
 testblas.DgemmBenchmark(b, impl, Hg, Hg, Sm, NT, NT)
}

func BenchmarkDgemmMedMedMedTNT(b *testing.B) {
 testblas.DgemmBenchmark(b,
 impl, Med, Med, Med, T, NT)
}

func BenchmarkDgemmMedMedMedNTT(b *testing.B) {
 testblas.DgemmBenchmark(b, impl, Med, Med, Med, NT, T)
}

func BenchmarkDgemmMedMedMedTT(b *testing.B) {
 testblas.DgemmBenchmark(b, impl, Med, Med, Med, T, T)
}
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package mathext

import "gonum.org/v1/gonum/mathext/internal/gonum"

// Beta returns the value of the complete beta function B(a, b). It is defined as
//  (a)(b) / (a+b)
// Special cases are:
//  B(a,b) returns NaN if a or b is Inf
//  B(a,b) returns NaN if a and b are 0
//  B(a,b) returns NaN if a or b is NaN
//  B(a,b) returns NaN if a or b is < 0
//  B(a,b) returns +Inf if a xor b is 0.
//
// See http://mathworld.wolfram.com/BetaFunction.html for more detailed informations.
func Beta(a, b float64) float64 {
 return gonum.Beta(a, b)
}

// Lbeta returns the natural logarithm of the complete beta function B(a,b).
// Lbeta is defined as:
//  Ln((a)(b)/(a+b))
// Special cases are:
//  Lbeta(a,b) returns NaN if a or b is Inf
//  Lbeta(a,b) returns NaN if a and b are 0
//  Lbeta(a,b) returns NaN if a or b is NaN
//  Lbeta(a,b) returns
```

```
 NaN if a or b is < 0
//  Lbeta(a,b) returns +Inf if a xor b is 0.
func Lbeta(a, b float64) float64 {
 return gonum.Lbeta(a, b)
}
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package testblas

import (
 "testing"

 "gonum.org/v1/gonum/blas"
)

type Zhpmver interface {
 Zhpmv(uplo blas.Uplo, n int, alpha complex128, ap []complex128, x []complex128, incX int, beta complex128, y
[]complex128, incY int)
}

func ZhpmvTest(t *testing.T, impl Zhpmver) {
 for tc, test := range zhemvTestCases {
  uplo := test.uplo
  n := len(test.x)
  alpha := test.alpha
  beta := test.beta
  for _, incX := range []int{-11, -2, -1, 1, 2, 7} {
   for _, incY := range []int{-11, -2, -1, 1, 2, 7} {
    x := makeZVector(test.x, incX)
    xCopy := make([]complex128, len(x))
    copy(xCopy, x)

    y := makeZVector(test.y, incY)

    ap := zPack(uplo, n, test.a, n)
    apCopy := make([]complex128, len(ap))
    copy(apCopy, ap)

    impl.Zhpmv(test.uplo, n, alpha, ap, x, incX, beta, y, incY)

    if !zsame(x, xCopy) {
     t.Errorf("Case
 %v (incX=%v,incY=%v): unexpected modification of x", tc, incX, incY)
    }
    if !zsame(ap, apCopy) {
     t.Errorf("Case %v (incX=%v,incY=%v): unexpected modification of A", tc, incX, incY)
```

```
    }

    var want []complex128
    switch {
    case incX > 0 && incY > 0:
     want = makeZVector(test.want, incY)
    case incX < 0 && incY > 0:
     want = makeZVector(test.wantXNeg, incY)
    case incX > 0 && incY < 0:
     want = makeZVector(test.wantYNeg, incY)
    default:
     want = makeZVector(test.wantXYNeg, incY)
    }
    if !zsame(y, want) {
     t.Errorf("Case %v (incX=%v,incY=%v): unexpected result\nwant %v\ngot  %v", tc, incX, incY, want, y)
    }
   }
  }
 }
}
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// Package combin implements routines involving combinatorics (permutations,
// combinations, etc.).
package combin // import "gonum.org/v1/gonum/stat/combin"
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package testlapack

import (
 "testing"

 "golang.org/x/exp/rand"
)

type Dgebd2er interface {
 Dgebd2(m, n int, a []float64, lda int, d, e, tauq, taup, work []float64)
}

func Dgebd2Test(t *testing.T, impl Dgebd2er) {
 rnd := rand.New(rand.NewSource(1))
 for _, test := range []struct {
  m, n, lda int
 }{
```

```
 {3, 4, 0},
 {4, 3, 0},
 {3, 4, 10},
 {4, 3, 10},
} {
 m := test.m
 n := test.n
 lda := test.lda
 if lda == 0 {
  lda = n
 }
 // Allocate mn matrix A and fill it with random numbers.
 a := make([]float64, m*lda)
 for i := range a {
  a[i] = rnd.NormFloat64()
 }
 // Store a copy of A for later comparison.
 aCopy := make([]float64, len(a))
 copy(aCopy, a)
 // Allocate slices for the main and off diagonal.
 nb := min(m, n)
 d := nanSlice(nb)
 e := nanSlice(nb - 1)
 // Allocate slices for scalar factors of
elementary reflectors
 // and fill them with NaNs.
 tauP := nanSlice(nb)
 tauQ := nanSlice(nb)
 // Allocate workspace.
 work := nanSlice(max(m, n))

 // Reduce A to upper or lower bidiagonal form by an orthogonal
 // transformation.
 impl.Dgebd2(m, n, a, lda, d, e, tauQ, tauP, work)

 // Check that it holds Q * A * P = B where B is represented by
 // d and e.
 checkBidiagonal(t, m, n, nb, a, lda, d, e, tauP, tauQ, aCopy)
 }
}
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// +build !noasm,!appengine,!safe

package c64
```

```
// AxpyUnitary is
//  for i, v := range x {
//   y[i] += alpha * v
//  }
func AxpyUnitary(alpha complex64, x, y []complex64)

// AxpyUnitaryTo is
//  for i, v := range x {
//   dst[i] = alpha*v + y[i]
//  }
func AxpyUnitaryTo(dst []complex64, alpha complex64, x, y []complex64)

// AxpyInc is
//  for i := 0; i < int(n); i++ {
//   y[iy] += alpha * x[ix]
//   ix += incX
//   iy += incY
//  }
func AxpyInc(alpha complex64, x, y []complex64, n, incX, incY, ix, iy uintptr)

// AxpyIncTo is
//  for i := 0; i < int(n); i++ {
//   dst[idst] = alpha*x[ix] + y[iy]
//   ix += incX
//   iy += incY
//   idst += incDst
//  }
func AxpyIncTo(dst []complex64, incDst, idst uintptr, alpha complex64, x, y []complex64, n, incX, incY, ix, iy
uintptr)

// DotcUnitary is
//  for i, v := range x {
//   sum
 += y[i] * conj(v)
//  }
//  return sum
func DotcUnitary(x, y []complex64) (sum complex64)

// DotcInc is
//  for i := 0; i < int(n); i++ {
//   sum += y[iy] * conj(x[ix])
//   ix += incX
//   iy += incY
//  }
//  return sum
func DotcInc(x, y []complex64, n, incX, incY, ix, iy uintptr) (sum complex64)

// DotuUnitary is
```

```
//  for i, v := range x {
//   sum += y[i] * v
//  }
//  return sum
func DotuUnitary(x, y []complex64) (sum complex64)

// DotuInc is
//  for i := 0; i < int(n); i++ {
//   sum += y[iy] * x[ix]
//   ix += incX
//   iy += incY
//  }
//  return sum
func DotuInc(x, y []complex64, n, incX, incY, ix, iy uintptr) (sum complex64)
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package testlapack

import (
 "math"
 "testing"
)

type Dlas2er interface {
 Dlas2(f, g, h float64) (min, max float64)
}

func Dlas2Test(t *testing.T, impl Dlas2er) {
 for i, test := range []struct {
  f, g, h, ssmin, ssmax float64
 }{
  // Singular values computed from Octave.
  {10, 30, 12, 3.567778859365365, 33.634371616111189},
  {10, 30, -12, 3.567778859365365, 33.634371616111189},
  {2, 30, -12, 0.741557056404952, 32.364333658088754},
  {-2, 5, 12, 1.842864429909778, 13.023204317408728},
 } {
  ssmin, ssmax := impl.Dlas2(test.f, test.g, test.h)
  if math.Abs(ssmin-test.ssmin) > 1e-12 {
   t.Errorf("Case %d, minimal singular value mismatch. Want %v, got %v", i, test.ssmin, ssmin)
  }
  if math.Abs(ssmax-test.ssmax) > 1e-12 {
   t.Errorf("Case %d, minimal singular value mismatch. Want %v, got %v", i, test.ssmin, ssmin)
  }
 }
}
```

```
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package gonum

import "math"

// Dlassq updates a sum of squares in scaled form. The input parameters scale and
// sumsq represent the current scale and total sum of squares. These values are
// updated with the information in the first n elements of the vector specified
// by x and incX.
//
// Dlassq is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dlassq(n int, x []float64, incx int, scale float64, sumsq float64) (scl, smsq float64) {
 switch {
 case n < 0:
  panic(nLT0)
 case incx <= 0:
  panic(badIncX)
 case len(x) < 1+(n-1)*incx:
  panic(shortX)
 }

 if n == 0 {
  return scale, sumsq
 }

 for ix := 0; ix <= (n-1)*incx; ix += incx {
  absxi := math.Abs(x[ix])
  if absxi > 0 || math.IsNaN(absxi) {
   if scale < absxi {
    sumsq = 1 + sumsq*(scale/absxi)*(scale/absxi)
    scale = absxi
   }
 else {
    sumsq += (absxi / scale) * (absxi / scale)
   }
  }
 }
 return scale, sumsq
}
```

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```
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```

```
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package cmplx64

import math "gonum.org/v1/gonum/internal/math32"

// IsInf returns true if either real(x) or imag(x) is an infinity.
func IsInf(x complex64) bool {
 if math.IsInf(real(x), 0) || math.IsInf(imag(x), 0) {
  return true
 }
 return false
}

// Inf returns a complex infinity, complex(+Inf, +Inf).
func Inf() complex64 {
 inf := math.Inf(1)
 return complex(inf, inf)
}
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package graphql
// SPDX-License-Identifier: Unlicense OR MIT

/*
Package event contains the types for event handling.

The Queue interface is the protocol for receiving external events.

For example:

 var queue event.Queue = ...

 for _, e := range queue.Events(h) {
  switch e.(type) {
   ...
  }
 }

In general, handlers must be declared before events become
available. Other packages such as pointer and key provide
the means for declaring handlers for specific event types.

The following example declares a handler ready for key input:
```

import gioui.org/io/key

ops := new(op.Ops)
var h *Handler = ...
key.InputOp{Key: h}.Add(ops)

*/
package event

// Queue maps an event handler key to the events
// available to the handler.
type Queue interface {
// Events returns the available events for a
// Key.
Events(k Key) []Event
}

// Key is the stable identifier for an event handler.
// For a handler h, the key is typically &h.
type Key interface{}

// Event is the marker interface for events.
type Event
interface {
ImplementsEvent()
}
//**
source: https://github.com/apache/trafficcontrol/blob/master/LICENSE
**//
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package gonum

```
import (
 "sort"

 "gonum.org/v1/gonum/lapack"
)

// Dlasrt sorts the numbers in the input slice d. If s == lapack.SortIncreasing,
// the elements are sorted in increasing order. If s == lapack.SortDecreasing,
// the elements are sorted in decreasing order. For other values of s Dlasrt
// will panic.
//
// Dlasrt is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dlasrt(s lapack.Sort, n int, d []float64) {
 switch {
 case n < 0:
  panic(nLT0)
 case len(d) < n:
  panic(shortD)
 }

 d = d[:n]
 switch s {
 default:
  panic(badSort)
 case lapack.SortIncreasing:
  sort.Float64s(d)
 case lapack.SortDecreasing:
  sort.Sort(sort.Reverse(sort.Float64Slice(d)))
 }
}
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// Package traverse provides basic graph traversal primitives.
package traverse // import "gonum.org/v1/gonum/graph/traverse"
// Code generated by gocc; DO NOT EDIT.

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//
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//
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// Universal Public Domain Dedication.
```

```
package errors

import (
 "fmt"
 "strings"

 "gonum.org/v1/gonum/graph/formats/dot/internal/token"
)

type ErrorSymbol interface {
}

type Error struct {
 Err            error
 ErrorToken     *token.Token
 ErrorSymbols   []ErrorSymbol
 ExpectedTokens []string
 StackTop       int
}

func (e *Error) String() string {
 w := new(strings.Builder)
 fmt.Fprintf(w, "Error")
 if e.Err != nil {
  fmt.Fprintf(w, " %s\n", e.Err)
 } else {
  fmt.Fprintf(w, "\n")
 }
 fmt.Fprintf(w, "Token: type=%d, lit=%s\n", e.ErrorToken.Type, e.ErrorToken.Lit)
 fmt.Fprintf(w, "Pos: offset=%d, line=%d, column=%d\n",
 e.ErrorToken.Pos.Offset, e.ErrorToken.Pos.Line, e.ErrorToken.Pos.Column)
 fmt.Fprintf(w, "Expected one of: ")
 for _, sym := range e.ExpectedTokens {
  fmt.Fprintf(w, "%s ", sym)
 }
 fmt.Fprintf(w, "ErrorSymbol:\n")
 for _, sym := range e.ErrorSymbols {
  fmt.Fprintf(w, "%v\n", sym)
 }
 return w.String()
}

func (e *Error) Error() string {
 w := new(strings.Builder)
 fmt.Fprintf(w, "Error in S%d: %s, %s", e.StackTop, token.TokMap.TokenString(e.ErrorToken),
e.ErrorToken.Pos.String())
 if e.Err != nil {
```

```
  fmt.Fprintf(w, ": %+v", e.Err)
 } else {
  fmt.Fprintf(w, ", expected one of: ")
  for _, expected := range e.ExpectedTokens {
   fmt.Fprintf(w, "%s ", expected)
  }
 }
 return w.String()
}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "errors"
 "fmt"
 "math"
 "unicode/utf8"
)

// Inductance represents an electrical inductance in Henry.
type Inductance float64

const Henry Inductance = 1

// Unit converts the Inductance to a *Unit
func (i Inductance) Unit() *Unit {
 return New(float64(i), Dimensions{
  CurrentDim: -2,
  LengthDim:  2,
  MassDim:    1,
  TimeDim:    -2,
 })
}

// Inductance allows Inductance to implement a Inductancer interface
func (i Inductance) Inductance() Inductance {
 return i
}

// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (i *Inductance) From(u Uniter) error {
 if !DimensionsMatch(u, Henry) {
```

```
 *i = Inductance(math.NaN())
 return errors.New("Dimension mismatch")
 }
 *i = Inductance(u.Unit().Value())
 return
 nil
}

func (i Inductance) Format(fs fmt.State, c rune) {
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", i, float64(i))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " H"
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(i))
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(i))
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(i))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(i))
  }
  fmt.Fprint(fs, unit)
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g H)", c, i, float64(i))
 }
}
      SUBROUTINE ZSHCH(ZR, ZI, CSHR, CSHI, CCHR, CCHI)
C***BEGIN PROLOGUE  ZSHCH
C***REFER TO  ZBESK,ZBESH
C
C     ZSHCH COMPUTES THE COMPLEX HYPERBOLIC FUNCTIONS CSH=SINH(X+I*Y)
C     AND CCH=COSH(X+I*Y), WHERE I**2=-1.
C
C***ROUTINES CALLED  (NONE)
C***END PROLOGUE  ZSHCH
C
      DOUBLE PRECISION CCHI, CCHR, CH, CN, CSHI, CSHR, SH, SN, ZI, ZR,
     * DCOSH, DSINH
      SH = DSINH(ZR)
```

```
      CH = DCOSH(ZR)
      SN = DSIN(ZI)
      CN = DCOS(ZI)
      CSHR = SH*CN
      CSHI = CH*SN
      CCHR = CH*CN
      CCHI = SH*SN
      RETURN
      END
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package dual_test

import (
 "fmt"

 "gonum.org/v1/gonum/num/dual"
)

func Example_Number_fike() {
 // Calculate the value and derivative of the function
 // e^x/(sqrt(sin(x)^3 + cos(x)^3)).
 fn := func(x dual.Number) dual.Number {
  return dual.Mul(
   dual.Exp(x),
   dual.Inv(dual.Sqrt(
    dual.Add(
     dual.PowReal(dual.Sin(x), 3),
     dual.PowReal(dual.Cos(x), 3)))))
 }

 v := fn(dual.Number{Real: 1.5, Emag: 1})
 fmt.Printf("v=%.4f\n", v)
 fmt.Printf("fn(1.5)=%.4f\nfn'(1.5)=%.4f\n", v.Real, v.Emag)

 // Output:
 //
 // v=(4.4978+4.0534)
 // fn(1.5)=4.4978
 // fn'(1.5)=4.0534
}
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package unit
```

```
import (
 "errors"
 "fmt"
 "math"
)

// Dimless represents a dimensionless constant
type Dimless float64

const (
 One Dimless = 1.0
)

// Unit converts the Dimless to a unit
func (d Dimless) Unit() *Unit {
 return New(float64(d), Dimensions{})
}

// Dimless allows Dimless to implement a Dimlesser interface
func (d Dimless) Dimless() Dimless {
 return d
}

// From converts the unit to a dimless. Returns an error if there
// is a mismatch in dimension
func (d *Dimless) From(u *Unit) error {
 if !DimensionsMatch(u, One) {
  (*d) = Dimless(math.NaN())
  return errors.New("Dimension mismatch")
 }
 (*d) = Dimless(u.Unit().Value())
 return nil
}

func (d Dimless) Format(fs fmt.State, c rune) {
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", d, float64(d))
   return
  }
  fallthrough
 case 'e', 'E',
 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  switch {
```

```
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), w, p, float64(d))
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(d))
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), w, float64(d))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(d))
  }
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g)", c, d, float64(d))
 }
}
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// Package util provides generated internal utility functions for DOT parsing.
package util // import "gonum.org/v1/gonum/graph/formats/dot/internal/util"
//** github.com/dropbox/goebpf@v0.0.0-20201020203810-72edb057c378 **//
{{Types "GPL-2.0"}}

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package distuv

const (
 // oneOverRoot2Pi is the value of 1/(2Pi)^(1/2)
 // http://www.wolframalpha.com/input/?i=1%2F%282+*+pi%29%5E%281%2F2%29
 oneOverRoot2Pi =
0.39894228040143267793994605993438186847585863116493465766592582967065792589930183850125233390
73069364303025588626351826 8

 //LogRoot2Pi is the value of log(sqrt(2*Pi))
 logRoot2Pi    =
```

```
0.918938533204672741780329736405617639861397473637783412817151540482765695927260397694743298635954197622005646624634337 44
 negLogRoot2Pi = -logRoot2Pi
 log2Pi        = 1.8378770664093454835606594728112352797227949472755668
 ln2           =
0.69314718055994530941723212145817656807550013436025525412068000949339362196969471560586332699641868754200148102057068573368552023

 // EulerMascheroni constant.
 eulerGamma =
0.57721566490153286060651209008240243104215933593992359880576723488486772677766467093694706329174674951463144724980708248096 05
)

const
 (
 panicNameMismatch = "parameter name mismatch"
)
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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// license that can be found in the LICENSE file.

package unit

import (
 "errors"
 "fmt"
 "math"
 "unicode/utf8"
)

// Torque represents a torque in Newton metres.
type Torque float64

const Newtonmetre Torque = 1

// Unit converts the Torque to a *Unit
func (t Torque) Unit() *Unit {
 return New(float64(t), Dimensions{
  LengthDim: 2,
  MassDim:   1,
  TimeDim:   -2,
 })
}

// Torque allows Torque to implement a Torquer interface
```

```
func (t Torque) Torque() Torque {
 return t
}

// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (t *Torque) From(u Uniter) error {
 if !DimensionsMatch(u, Newtonmetre) {
  *t = Torque(math.NaN())
  return errors.New("Dimension mismatch")
 }
 *t = Torque(u.Unit().Value())
 return nil
}

func (t Torque) Format(fs fmt.State,
 c rune) {
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", t, float64(t))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " N m"
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(t))
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(t))
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(t))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(t))
  }
  fmt.Fprint(fs, unit)
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g N m)", c, t, float64(t))
 }
}
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```

```
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package quat

import "math"

// Exp returns e**q, the base-e exponential of q.
func Exp(q Number) Number {
 w, uv := split(q)
 if uv == zero {
  return lift(math.Exp(w))
 }
 v := Abs(uv)
 e := math.Exp(w)
 s, c := math.Sincos(v)
 return join(e*c, Scale(e*s/v, uv))
}

// Log returns the natural logarithm of q.
func Log(q Number) Number {
 w, uv := split(q)
 if uv == zero {
  return lift(math.Log(w))
 }
 v := Abs(uv)
 return join(math.Log(Abs(q)), Scale(math.Atan2(v, w)/v, uv))
}

// Pow return q**r, the base-q exponential of r.
// For generalized compatibility with math.Pow:
//      Pow(0, 0) returns 1+0i+0j+0k
//      Pow(0, c) for real(c)<0 returns Inf+0i+0j+0k if imag(c),
 jmag(c), kmag(c) are zero,
//          otherwise Inf+Inf i+Inf j+Inf k.
func Pow(q, r Number) Number {
 if q == zero {
  w, uv := split(r)
  switch {
  case w == 0:
   return Number{Real: 1}
  case w < 0:
   if uv == zero {
    return Number{Real: math.Inf(1)}
   }
   return Inf()
  case w > 0:
   return zero
```

```
  }
 }
 return Exp(Mul(Log(q), r))
}

// Sqrt returns the square root of q.
func Sqrt(q Number) Number {
 if q == zero {
  return zero
 }
 return Pow(q, Number{Real: 0.5})
}
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// Package testsgraphs provides a number of graphs used for testing
// routines in the path and path/dynamic packages.
package testgraphs // import "gonum.org/v1/gonum/graph/path/internal/testgraphs"
//**
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http://otm.illinois.edu/uiuc_openSource
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package unit

import (
 "fmt"
 "testing"
)

func TestFrequencyFormat(t *testing.T) {
 for _, test := range []struct {
  value  Frequency
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 Hz"},
  {1.23456789, "%.1v", "1 Hz"},
  {1.23456789, "%20.1v", "                1 Hz"},
  {1.23456789, "%20v", "       1.23456789 Hz"},
  {1.23456789, "%1v", "1.23456789 Hz"},
  {1.23456789, "%#v", "unit.Frequency(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Frequency=1.23456789 Hz)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
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```

```
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package integrate

import "sort"

// Trapezoidal returns an approximate value of the integral
//  \int_a^b f(x) dx
// computed using the trapezoidal rule. The function f is given as a slice of
// samples evaluated at locations in x, that is,
//  f[i] = f(x[i]), x[0] = a, x[len(x)-1] = b
// The slice x must be sorted in strictly increasing order. x and f must be of
// equal length and the length must be at least 2.
//
// The trapezoidal rule approximates f by a piecewise linear function and
// estimates
//  \int_x[i]^x[i+1] f(x) dx
// as
//  (x[i+1] - x[i]) * (f[i] + f[i+1])/2
// More details on the trapezoidal rule can be found at:
// https://en.wikipedia.org/wiki/Trapezoidal_rule
func Trapezoidal(x, f []float64) float64 {
 n := len(x)
 switch {
 case len(f) != n:
  panic("integrate: slice length mismatch")
 case n < 2:
  panic("integrate:
 input data too small")
 case !sort.Float64sAreSorted(x):
  panic("integrate: input must be sorted")
 }

 integral := 0.0
 for i := 0; i < n-1; i++ {
  integral += 0.5 * (x[i+1] - x[i]) * (f[i+1] + f[i])
 }

 return integral
}
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// Package blas32 provides a simple interface to the float32 BLAS API.
package blas32 // import "gonum.org/v1/gonum/blas/blas32"
//**
   launchpad.net_ubuntu-push@v0.0.0-20170211001545-000000000177
```

```
  github.com/monsti/form@v0.0.0-20140713153911-7d350fe5f89b
**//

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package testlapack

import (
 "fmt"
 "strings"
)

// This file implements types for helping to convert to Fortran testing capabilities.

// fortran64 is a float64 type that prints as a double precision constant in
// Fortran format.
type fortran64 float64
```

```
func (f fortran64) String() string {
 // Replace exponent with D
 s := fmt.Sprintf("%0.16E", f)
 s = strings.Replace(s, "E", "D", 1)
 return s
}

// printFortranArray prints a Go slice as an array that can be copied into a
// fortran script.
func printFortranArray(z []float64, name string) {
 fmt.Printf("%s(1:%d) = (/%v, &\n", name, len(z), fortran64(z[0]))
 for i := 1; i < len(z)-1; i++ {
  fmt.Printf("%v, &\n", fortran64(z[i]))
 }
 fmt.Printf("%s/)\n", fortran64(z[len(z)-1]))
}
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package testlapack

import (
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas/blas64"
)

type Dorg2ler interface {
 Dorg2l(m, n, k int, a []float64, lda int, tau, work []float64)
 Dgeql2er
}

func Dorg2lTest(t *testing.T, impl Dorg2ler) {
 rnd := rand.New(rand.NewSource(1))
 for _, test := range []struct {
  m, n, k, lda int
 }{
  {5, 4, 3, 0},
  {5, 4, 4, 0},
  {3, 3, 2, 0},
  {5, 5, 5, 0},
  {5, 4, 3, 11},
  {5, 4, 4, 11},
  {3, 3, 2, 11},
  {5, 5, 5, 11},
```

```
 } {
  m := test.m
  n := test.n
  k := test.k
  lda := test.lda
  if lda == 0 {
   lda = n
  }

  a := make([]float64, m*lda)
  for i := range a {
   a[i] = rnd.NormFloat64()
  }
  tau := nanSlice(max(m, n))
  work := make([]float64, n)
  impl.Dgeql2(m, n, a, lda, tau, work)

  impl.Dorg2l(m, n, k, a, lda, tau[n-k:], work)
  if !hasOrthonormalColumns(blas64.General{Rows:
 m, Cols: n, Data: a, Stride: lda}) {
   t.Errorf("Case m=%v, n=%v, k=%v: columns of Q not orthonormal", m, n, k)
  }
 }
}
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// Package gonum is a pure-go implementation of the LAPACK API. The LAPACK API defines
// a set of algorithms for advanced matrix operations.
//
// The function definitions and implementations follow that of the netlib reference
// implementation. See http://www.netlib.org/lapack/explore-html/ for more
// information, and http://www.netlib.org/lapack/explore-html/d4/de1/_l_i_c_e_n_s_e_source.html
// for more license information.
//
// Slice function arguments frequently represent vectors and matrices. The data
// layout is identical to that found in https://godoc.org/gonum.org/v1/gonum/blas/gonum.
//
// Most LAPACK functions are built on top the routines defined in the BLAS API,
// and as such the computation time for many LAPACK functions is
// dominated by BLAS calls. Here, BLAS is accessed through the
// blas64 package (https://godoc.org/golang.org/v1/gonum/blas/blas64).
 In particular,
// this implies that an external BLAS library will be used if it is
// registered in blas64.
//
// The full LAPACK capability has not been implemented at present. The full
```

```
// API is very large, containing approximately 200 functions for double precision
// alone. Future additions will be focused on supporting the gonum matrix
// package (https://godoc.org/github.com/gonum/matrix/mat64), though pull requests
// with implementations and tests for LAPACK function are encouraged.
package gonum // import "gonum.org/v1/gonum/lapack/gonum"
// Code generated by "go generate gonum.org/v1/gonum/unit/constant; DO NOT EDIT.

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package constant

import (
 "fmt"

 "gonum.org/v1/gonum/unit"
)

// Gravitational is the universal gravitational constant (G), the proportionality constant connecting the gravitational
force between two bodies.
// The dimensions of Gravitational are m^3 kg^-1 s^-2. The standard uncertainty of the constant is 1.5e-15 m^3 kg^-
1 s^-2.
const Gravitational = gravitationalUnits(6.6743e-11)

type gravitationalUnits float64

// Unit converts the gravitationalUnits to a *unit.Unit
func (cnst gravitationalUnits) Unit() *unit.Unit {
 return unit.New(float64(cnst), unit.Dimensions{
  unit.MassDim:   -1,
  unit.LengthDim: 3,
  unit.TimeDim:   -2,
 })
}

func (cnst gravitationalUnits) Format(fs fmt.State, c rune) {
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs,
 "%T(%v)", cnst, float64(cnst))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
```

```
 switch {
 case pOk && wOk:
  fmt.Fprintf(fs, "%*.*"+string(c), w, p, cnst.Unit())
 case pOk:
  fmt.Fprintf(fs, "%.*"+string(c), p, cnst.Unit())
 case wOk:
  fmt.Fprintf(fs, "%*"+string(c), w, cnst.Unit())
 default:
  fmt.Fprintf(fs, "%"+string(c), cnst.Unit())
 }
default:
 fmt.Fprintf(fs, "%%!"+string(c)+"(constant.gravitationalUnits=%v m^3 kg^-1 s^-2)", float64(cnst))
}
}
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package gonum

import (
 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
)

// Dtrtrs solves a triangular system of the form A * X = B or A * X = B. Dtrtrs
// returns whether the solve completed successfully. If A is singular, no solve is performed.
func (impl Implementation) Dtrtrs(uplo blas.Uplo, trans blas.Transpose, diag blas.Diag, n, nrhs int, a []float64, lda
int, b []float64, ldb int) (ok bool) {
 switch {
 case uplo != blas.Upper && uplo != blas.Lower:
  panic(badUplo)
 case trans != blas.NoTrans && trans != blas.Trans && trans != blas.ConjTrans:
  panic(badTrans)
 case diag != blas.NonUnit && diag != blas.Unit:
  panic(badDiag)
 case n < 0:
  panic(nLT0)
 case nrhs < 0:
  panic(nrhsLT0)
 case lda < max(1, n):
  panic(badLdA)
 case ldb < max(1, nrhs):
  panic(badLdB)
 }

 if n == 0 {
  return true
```

```
 }

 switch
 {
 case len(a) < (n-1)*lda+n:
  panic(shortA)
 case len(b) < (n-1)*ldb+nrhs:
  panic(shortB)
 }

 // Check for singularity.
 nounit := diag == blas.NonUnit
 if nounit {
  for i := 0; i < n; i++ {
   if a[i*lda+i] == 0 {
    return false
   }
  }
 }
 bi := blas64.Implementation()
 bi.Dtrsm(blas.Left, uplo, trans, diag, n, nrhs, 1, a, lda, b, ldb)
 return true
}
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package testlapack

import (
 "fmt"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
)

type Dpbtf2er interface {
 Dpbtf2(uplo blas.Uplo, n, kd int, ab []float64, ldab int) (ok bool)
}

// Dpbtf2Test tests Dpbtf2 on random symmetric positive definite band matrices
// by checking that the Cholesky factors multiply back to the original matrix.
func Dpbtf2Test(t *testing.T, impl Dpbtf2er) {
 // TODO(vladimir-ch): include expected-failure test case.
 rnd := rand.New(rand.NewSource(1))
 for _, n := range []int{0, 1, 2, 3, 4, 5, 10, 20} {
```

```
  for _, kd := range []int{0, (n + 1) / 4, (3*n - 1) / 4, (5*n + 1) / 4} {
   for _, uplo := range []blas.Uplo{blas.Upper, blas.Lower} {
    for _, ldab := range []int{kd + 1, kd + 1 + 7} {
     dpbtf2Test(t, impl, rnd, uplo, n, kd, ldab)
    }
   }
  }
 }
}

func dpbtf2Test(t *testing.T,
 impl Dpbtf2er, rnd *rand.Rand, uplo blas.Uplo, n, kd int, ldab int) {
 const tol = 1e-12

 name := fmt.Sprintf("uplo=%v,n=%v,kd=%v,ldab=%v", string(uplo), n, kd, ldab)

 // Generate a random symmetric positive definite band matrix.
 ab := randSymBand(uplo, n, kd, ldab, rnd)

 // Compute the Cholesky decomposition of A.
 abFac := make([]float64, len(ab))
 copy(abFac, ab)
 ok := impl.Dpbtf2(uplo, n, kd, abFac, ldab)
 if !ok {
  t.Fatalf("%v: bad test matrix, Dpbtf2 failed", name)
 }

 // Reconstruct an symmetric band matrix from the U*U or L*L factorization, overwriting abFac.
 dsbmm(uplo, n, kd, abFac, ldab)

 // Compute and check the max-norm distance between the reconstructed and original matrix A.
 dist := distSymBand(uplo, n, kd, abFac, ldab, ab, ldab)
 if dist > tol {
  t.Errorf("%v: unexpected result, diff=%v", name, dist)
 }
}
```

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// Package ast declares the types used to represent abstract syntax trees of
// Graphviz DOT graphs.
package ast // import "gonum.org/v1/gonum/graph/formats/dot/ast"
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package fd_test

import (
 "fmt"
 "math"

 "gonum.org/v1/gonum/diff/fd"
 "gonum.org/v1/gonum/mat"
)

func ExampleDerivative() {
 f := func(x float64) float64 {
  return math.Sin(x)
 }
 // Compute the first derivative of f at 0 using the default settings.
 fmt.Println("f'(0) ", fd.Derivative(f, 0, nil))
 // Compute the first derivative of f at 0 using the forward approximation
 // with a custom step size.
 df := fd.Derivative(f, 0, &fd.Settings{
  Formula: fd.Forward,
  Step:    1e-3,
 })
 fmt.Println("f'(0) ", df)
```

```
 f = func(x float64) float64 {
  return math.Pow(math.Cos(x), 3)
 }
 // Compute the second derivative of f at 0 using
 // the centered approximation, concurrent evaluation,
 // and a known function value at x.
 df = fd.Derivative(f, 0, &fd.Settings{
  Formula:     fd.Central2nd,
  Concurrent:  true,
  OriginKnown: true,
  OriginValue:
 f(0),
 })
 fmt.Println("f''(0) ", df)

 // Output:
 // f'(0)  1
 // f'(0)  0.9999998333333416
 // f''(0)  -2.999999981767587
}

func ExampleJacobian() {
 f := func(dst, x []float64) {
  dst[0] = x[0] + 1
  dst[1] = 5 * x[2]
  dst[2] = 4*x[1]*x[1] - 2*x[2]
  dst[3] = x[2] * math.Sin(x[0])
 }
 jac := mat.NewDense(4, 3, nil)
 fd.Jacobian(jac, f, []float64{1, 2, 3}, &fd.JacobianSettings{
  Formula:    fd.Central,
  Concurrent: true,
 })
 fmt.Printf("J  %.6v\n", mat.Formatted(jac, mat.Prefix("    ")))

 // Output:
 // J         1         0         0
 //           0         0         5
 //           0        16        -2
 //     1.62091         0  0.841471
}
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package topo
```

```
// batageljZaversnikGraph is the example graph from
// figure 1 of http://arxiv.org/abs/cs/0310049v1
var batageljZaversnikGraph = []intset{
 0: nil,

 1: linksTo(2, 3),
 2: linksTo(4),
 3: linksTo(4),
 4: linksTo(5),
 5: nil,

 6:  linksTo(7, 8, 14),
 7:  linksTo(8, 11, 12, 14),
 8:  linksTo(14),
 9:  linksTo(11),
 10: linksTo(11),
 11: linksTo(12),
 12: linksTo(18),
 13: linksTo(14, 15),
 14: linksTo(15, 17),
 15: linksTo(16, 17),
 16: nil,
 17: linksTo(18, 19, 20),
 18: linksTo(19, 20),
 19: linksTo(20),
 20: nil,
}

// intset is an integer set.
type intset map[int64]struct{}

func linksTo(i ...int64) intset {
 if len(i) == 0 {
  return nil
 }
 s := make(intset)
 for _, v := range i {
  s[v] = struct{}{}
 }
 return s
}
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package testlapack

import (
```

```
 "math"
 "testing"

 "golang.org/x/exp/rand"
)

type Dcombssqer interface {
 Dcombssq(scale1, ssq1, scale2, ssq2 float64) (scale, ssq float64)
}

func DcombssqTest(t *testing.T, impl Dcombssqer) {
 const tol = 1e-15

 rnd := rand.New(rand.NewSource(1))
 for i := 0; i < 10; i++ {
  // Generate random, non-negative input.
  scale1 := rnd.Float64()
  ssq1 := rnd.Float64()
  scale2 := rnd.Float64()
  ssq2 := rnd.Float64()
  switch i {
  case 0:
   scale1 = 0
  case 1:
   scale2 = 0
  case 2:
   scale1, scale2 = 0, 0
  }

  // Compute scale and ssq such that
  //  scale^2 * ssq := scale1^2 * ssq1 + scale2^2 * ssq2
  scale, ssq := impl.Dcombssq(scale1, ssq1, scale2, ssq2)

  // Compute the expected result in a non-sophisticated way and
  // compare against the result we got.
  want := scale1*scale1*ssq1
 + scale2*scale2*ssq2
  got := scale * scale * ssq
  if math.Abs(want-got) >= tol {
   t.Errorf("Case %v: unexpected result; got %v, want %v", i, got, want)
  }
 }
}
// SPDX-License-Identifier: Unlicense OR MIT

package material

import (
```

```
 "image/color"

 "gioui.org/layout"
 "gioui.org/op"
 "gioui.org/op/paint"
 "gioui.org/text"
 "gioui.org/widget"
)

type Editor struct {
 Font text.Font
 // Color is the text color.
 Color color.RGBA
 // Hint contains the text displayed when the editor is empty.
 Hint string
 // HintColor is the color of hint text.
 HintColor color.RGBA

 shaper *text.Shaper
}

func (t *Theme) Editor(hint string) Editor {
 return Editor{
  Font: text.Font{
   Size: t.TextSize,
  },
  Color:     t.Color.Text,
  shaper:    t.Shaper,
  Hint:      hint,
  HintColor: t.Color.Hint,
 }
}

func (e Editor) Layout(gtx *layout.Context, editor *widget.Editor) {
 var stack op.StackOp
 stack.Push(gtx.Ops)
 var macro op.MacroOp
 macro.Record(gtx.Ops)
 paint.ColorOp{Color: e.HintColor}.Add(gtx.Ops)
 tl := widget.Label{Alignment: editor.Alignment}
 tl.Layout(gtx, e.shaper, e.Font, e.Hint)
 macro.Stop()
 if w := gtx.Dimensions.Size.X; gtx.Constraints.Width.Min
 < w {
  gtx.Constraints.Width.Min = w
 }
 if h := gtx.Dimensions.Size.Y; gtx.Constraints.Height.Min < h {
  gtx.Constraints.Height.Min = h
```

```
 }
 editor.Layout(gtx, e.shaper, e.Font)
 if editor.Len() > 0 {
  paint.ColorOp{Color: e.Color}.Add(gtx.Ops)
  editor.PaintText(gtx)
 } else {
  macro.Add()
 }
 paint.ColorOp{Color: e.Color}.Add(gtx.Ops)
 editor.PaintCaret(gtx)
 stack.Pop()
}
```

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package unit

```
import (
 "fmt"
 "testing"
)

func TestTorqueFormat(t *testing.T) {
 for _, test := range []struct {
  value  Torque
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 N m"},
  {1.23456789, "%.1v", "1 N m"},
  {1.23456789, "%20.1v", "               1 N m"},
  {1.23456789, "%20v", "      1.23456789 N m"},
  {1.23456789, "%1v", "1.23456789 N m"},
  {1.23456789, "%#v", "unit.Torque(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Torque=1.23456789 N m)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
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package testlapack

import "testing"

type Iladlcer interface {
 Iladlc(m, n int, a []float64, lda int) int
}

func IladlcTest(t *testing.T, impl Iladlcer) {
 for i, test := range []struct {
  a         []float64
  m, n, lda int
  ans       int
 }{
  {
   a:   []float64{0, 0, 0, 0},
   m:   1,
   n:   1,
   lda: 2,
```

```
 ans: -1,
},
{
 a:   []float64{0, 0, 0, 0},
 m:   2,
 n:   2,
 lda: 2,
 ans: -1,
},
{
 a:   []float64{0, 0, 0, 0},
 m:   4,
 n:   1,
 lda: 1,
 ans: -1,
},
{
 a:   []float64{0, 0, 0, 0},
 m:   1,
 n:   4,
 lda: 4,
 ans: -1,
},
{
 a: []float64{
  1, 2, 3, 4,
  5, 6, 7, 8,
 },
 m:   2,
 n:   4,
 lda: 4,
 ans: 3,
},
{
 a: []float64{
  1, 2, 3, 0,
  0, 0, 0, 0,
 },
 m:   2,
 n:   4,
 lda: 4,
 ans: 2,
},
{
 a: []float64{
  0, 0, 3,
4,
  0, 0, 0, 0,
```

```
  },
  m:   2,
  n:   2,
  lda: 4,
  ans: -1,
 },
} {
 ans := impl.Iladlc(test.m, test.n, test.a, test.lda)
 if ans != test.ans {
  t.Errorf("Column mismatch case %v. Want: %v, got: %v", i, test.ans, ans)
 }
}
}
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package layout

import (
 "gonum.org/v1/gonum/graph"
 "gonum.org/v1/gonum/graph/path"
 "gonum.org/v1/gonum/mat"
 "gonum.org/v1/gonum/spatial/r2"
 "gonum.org/v1/gonum/stat/mds"
)

// IsomapR2 implements a graph layout algorithm based on the Isomap
// non-linear dimensionality reduction method. Coordinates of nodes
// are computed by finding a Torgerson multidimensional scaling of
// the shortest path distances between all pairs of node in the graph.
// The all pair shortest path distances are calculated using the
// Floyd-Warshall algorithm and so IsomapR2 will not scale to large
// graphs. Graphs with more than one connected component cannot be
// laid out by IsomapR2.
type IsomapR2 struct{}

// Update is the IsomapR2 spatial graph update function.
func (IsomapR2) Update(g graph.Graph, layout LayoutR2) bool {
 nodes := graph.NodesOf(g.Nodes())
 v
 := isomap(g, nodes, 2)
 if v == nil {
  return false
 }

 // FIXME(kortschak): The Layout types do not have the capacity to
 // be cleared in the current API. Is this a problem? I don't know
```

```
 // at this stage. It might be if the layout is reused between graphs.
 // Someone may do this.

 for i, n := range nodes {
  layout.SetCoord2(n.ID(), r2.Vec{X: v.At(i, 0), Y: v.At(i, 1)})
 }
 return false
}

func isomap(g graph.Graph, nodes []graph.Node, dims int) *mat.Dense {
 p, ok := path.FloydWarshall(g)
 if !ok {
  return nil
 }

 dist := mat.NewSymDense(len(nodes), nil)
 for i, u := range nodes {
  for j, v := range nodes {
   dist.SetSym(i, j, p.Weight(u.ID(), v.ID()))
  }
 }
 var v mat.Dense
 k, _ := mds.TorgersonScaling(&v, nil, dist)
 if k < dims {
  return nil
 }

 return &v
}
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package testblas

import (
 "testing"

 "gonum.org/v1/gonum/blas"
)

type Dsyrer interface {
 Dsyr(ul blas.Uplo, n int, alpha float64, x []float64, incX int, a []float64, lda int)
}

func DsyrTest(t *testing.T, blasser Dsyrer) {
 for i, test := range []struct {
  ul    blas.Uplo
```

```
 n     int
 a     [][]float64
 x     []float64
 alpha float64
 ans   [][]float64
}{
 {
  ul: blas.Upper,
  n:  4,
  a: [][]float64{
   {10, 2, 0, 1},
   {0, 1, 2, 3},
   {0, 0, 9, 15},
   {0, 0, 0, -6},
  },
  x:     []float64{1, 2, 0, 5},
  alpha: 8,
  ans: [][]float64{
   {18, 18, 0, 41},
   {0, 33, 2, 83},
   {0, 0, 9, 15},
   {0, 0, 0, 194},
  },
 },
 {
  ul: blas.Lower,
  n:  3,
  a: [][]float64{
   {10, 2, 0},
   {4, 1, 2},
   {2, 7, 9},
  },
  x:     []float64{3, 0, 5},
  alpha: 8,
  ans: [][]float64{
   {82,
2, 0},
   {4, 1, 2},
   {122, 7, 209},
  },
 },
} {
 incTest := func(incX, extra int) {
  xnew := makeIncremented(test.x, incX, extra)
  aFlat := flatten(test.a)
  ans := flatten(test.ans)
  lda := test.n
  blasser.Dsyr(test.ul, test.n, test.alpha, xnew, incX, aFlat, lda)
```

```
  if !dSliceTolEqual(aFlat, ans) {
   t.Errorf("Case %v, idx %v: Want %v, got %v.", i, incX, ans, aFlat)
  }
 }
 incTest(1, 3)
 incTest(1, 0)
 incTest(3, 2)
 incTest(-2, 2)
}
}
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package gonum

import "gonum.org/v1/gonum/blas/blas64"

// Dlaswp swaps the rows k1 to k2 of a rectangular matrix A according to the
// indices in ipiv so that row k is swapped with ipiv[k].
//
// n is the number of columns of A and incX is the increment for ipiv. If incX
// is 1, the swaps are applied from k1 to k2. If incX is -1, the swaps are
// applied in reverse order from k2 to k1. For other values of incX Dlaswp will
// panic. ipiv must have length k2+1, otherwise Dlaswp will panic.
//
// The indices k1, k2, and the elements of ipiv are zero-based.
//
// Dlaswp is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dlaswp(n int, a []float64, lda int, k1, k2 int, ipiv []int, incX int) {
 switch {
 case n < 0:
  panic(nLT0)
 case k2 < 0:
  panic(badK2)
 case k1 < 0 || k2 < k1:
  panic(badK1)
 case
 lda < max(1, n):
  panic(badLdA)
 case len(a) < (k2-1)*lda+n:
  panic(shortA)
 case len(ipiv) != k2+1:
  panic(badLenIpiv)
 case incX != 1 && incX != -1:
  panic(absIncNotOne)
 }
```

```
 if n == 0 {
  return
 }

 bi := blas64.Implementation()
 if incX == 1 {
  for k := k1; k <= k2; k++ {
   bi.Dswap(n, a[k*lda:], 1, a[ipiv[k]*lda:], 1)
  }
  return
 }
 for k := k2; k >= k1; k-- {
  bi.Dswap(n, a[k*lda:], 1, a[ipiv[k]*lda:], 1)
 }
}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "errors"
 "fmt"
 "math"
 "unicode/utf8"
)

// Force represents a force in Newtons.
type Force float64

const Newton Force = 1

// Unit converts the Force to a *Unit
func (f Force) Unit() *Unit {
 return New(float64(f), Dimensions{
  LengthDim: 1,
  MassDim:   1,
  TimeDim:   -2,
 })
}

// Force allows Force to implement a Forcer interface
func (f Force) Force() Force {
 return f
}
```

```
// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (f *Force) From(u Uniter) error {
 if !DimensionsMatch(u, Newton) {
  *f = Force(math.NaN())
  return errors.New("Dimension mismatch")
 }
 *f = Force(u.Unit().Value())
 return nil
}

func (f Force) Format(fs fmt.State, c rune) {
 switch c {
 case
 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", f, float64(f))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " N"
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(f))
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(f))
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(f))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(f))
  }
  fmt.Fprint(fs, unit)
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g N)", c, f, float64(f))
 }
}
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// Package simple provides a suite of simple graph implementations satisfying
// the gonum/graph interfaces.
//
// All types in simple return the graph.Empty value for empty iterators.
```

```
package simple // import "gonum.org/v1/gonum/graph/simple"
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "errors"
 "fmt"
 "math"
 "unicode/utf8"
)

// Charge represents an electric charge in Coulombs.
type Charge float64

const Coulomb Charge = 1

// Unit converts the Charge to a *Unit
func (ch Charge) Unit() *Unit {
 return New(float64(ch), Dimensions{
  CurrentDim: 1,
  TimeDim:    1,
 })
}

// Charge allows Charge to implement a Charger interface
func (ch Charge) Charge() Charge {
 return ch
}

// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (ch *Charge) From(u Uniter) error {
 if !DimensionsMatch(u, Coulomb) {
  *ch = Charge(math.NaN())
  return errors.New("Dimension mismatch")
 }
 *ch = Charge(u.Unit().Value())
 return nil
}

func (ch Charge) Format(fs fmt.State, c rune)
 {
 switch c {
```

```
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", ch, float64(ch))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " C"
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(ch))
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(ch))
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(ch))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(ch))
  }
  fmt.Fprint(fs, unit)
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g C)", c, ch, float64(ch))
 }
}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "fmt"
 "testing"
)

func TestVolumeFormat(t *testing.T) {
 for _, test := range []struct {
  value  Volume
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 m^3"},
  {1.23456789, "%.1v", "1 m^3"},
  {1.23456789, "%20.1v", "               1 m^3"},
  {1.23456789, "%20v", "      1.23456789 m^3"},
```

```
  {1.23456789, "%1v", "1.23456789 m^3"},
  {1.23456789, "%#v", "unit.Volume(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Volume=1.23456789 m^3)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
//** github.com/ipfs/go-pinning-service-http-client@v0.1.0 **//

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package testlapack

import (
 "testing"

 "golang.org/x/exp/rand"
```

```
 "gonum.org/v1/gonum/blas/blas64"
)

func TestDlagsy(t *testing.T) {
 const tol = 1e-14
 rnd := rand.New(rand.NewSource(1))
 for _, n := range []int{0, 1, 2, 3, 4, 5, 10, 50} {
  for _, lda := range []int{0, 2*n + 1} {
   if lda == 0 {
    lda = max(1, n)
   }
   // D is the identity matrix I.
   d := make([]float64, n)
   for i := range d {
    d[i] = 1
   }
   // Allocate an nn symmetric matrix A and fill it with NaNs.
   a := nanSlice(n * lda)
   work := make([]float64, 2*n)
   // Compute A = U * D * U where U is a random orthogonal matrix.
   Dlagsy(n, 0, d, a, lda, rnd, work)
   // A should be the identity matrix because
   //  A = U * D * U = U * I * U = U * U = I.
   dist := distFromIdentity(n, a, lda)
   if dist > tol {
    t.Errorf("Case n=%v,lda=%v: |A-I|=%v
 is too large", n, lda, dist)
   }
  }
 }
}

func TestDlagge(t *testing.T) {
 rnd := rand.New(rand.NewSource(1))
 for _, n := range []int{0, 1, 2, 3, 4, 5, 10, 50} {
  for _, lda := range []int{0, 2*n + 1} {
   if lda == 0 {
    lda = max(1, n)
   }
   d := make([]float64, n)
   for i := range d {
    d[i] = 1
   }
   a := blas64.General{
    Rows:   n,
    Cols:   n,
    Stride: lda,
    Data:   nanSlice(n * lda),
```

```
   }
   work := make([]float64, a.Rows+a.Cols)

   Dlagge(a.Rows, a.Cols, 0, 0, d, a.Data, a.Stride, rnd, work)

   if !isOrthogonal(a) {
    t.Errorf("Case n=%v,lda=%v: unexpected result", n, lda)
   }
  }
 }

}

func TestRandomOrthogonal(t *testing.T) {
 rnd := rand.New(rand.NewSource(1))
 for n := 1; n <= 20; n++ {
  q := randomOrthogonal(n, rnd)
  if !isOrthogonal(q) {
   t.Errorf("Case n=%v: Q not orthogonal", n)
  }
 }
}
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// Gonum is a set of packages designed to make writing numerical and
// scientific algorithms productive, performant, and scalable.
//
// Gonum contains libraries for matrices and linear algebra; statistics,
// probability distributions, and sampling; tools for function
// differentiation, integration, and optimization; network creation and
// analysis; and more.
package gonum // import "gonum.org/v1/gonum"
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package gen

import (
 "testing"

 "gonum.org/v1/gonum/graph/simple"
)

func TestTunableClusteringScaleFree(t *testing.T) {
 for n := 2; n <= 20; n++ {
```

```
 for m := 0; m < n; m++ {
  for p := 0.; p <= 1; p += 0.1 {
   g := &gnUndirected{UndirectedBuilder: simple.NewUndirectedGraph()}
   orig := g.NewNode()
   g.AddNode(orig)
   err := TunableClusteringScaleFree(g, n, m, p, nil)
   if err != nil {
    t.Fatalf("unexpected error: n=%d, m=%d, p=%v: %v", n, m, p, err)
   }
   if g.From(orig.ID()).Len() != 0 {
    t.Errorf("edge added from already existing node: n=%d, m=%d, p=%v", n, m, p)
   }
   if g.addBackwards {
    t.Errorf("edge added with From.ID > To.ID: n=%d, m=%d, p=%v", n, m, p)
   }
   if g.addSelfLoop {
    t.Errorf("unexpected self edge: n=%d, m=%d, p=%v", n, m, p)
   }
   if g.addMultipleEdge {
    t.Errorf("unexpected
 multiple edge: n=%d, m=%d, p=%v", n, m, p)
   }
  }
 }
}

func TestPreferentialAttachment(t *testing.T) {
 for n := 2; n <= 20; n++ {
  for m := 0; m < n; m++ {
   g := &gnUndirected{UndirectedBuilder: simple.NewUndirectedGraph()}
   err := PreferentialAttachment(g, n, m, nil)
   if err != nil {
    t.Fatalf("unexpected error: n=%d, m=%d: %v", n, m, err)
   }
   if g.addBackwards {
    t.Errorf("edge added with From.ID > To.ID: n=%d, m=%d", n, m)
   }
   if g.addSelfLoop {
    t.Errorf("unexpected self edge: n=%d, m=%d", n, m)
   }
   if g.addMultipleEdge {
    t.Errorf("unexpected multiple edge: n=%d, m=%d", n, m)
   }
  }
 }
}
```

```
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// Package c64 provides complex64 vector primitives.
package c64 // import "gonum.org/v1/gonum/internal/asm/c64"
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// Package floats provides a set of helper routines for dealing with slices
// of float64. The functions avoid allocations to allow for use within tight
// loops without garbage collection overhead.
//
// The convention used is that when a slice is being modified in place, it has
// the name dst.
package floats // import "gonum.org/v1/gonum/floats"
// Code generated by "go generate gonum.org/v1/gonum/unit/constant; DO NOT EDIT.

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package constant

import (
 "fmt"

 "gonum.org/v1/gonum/unit"
)

// Avogadro is the Avogadro constant (A), the number of constituent particles contained in one mole of a substance.
// The dimension of Avogadro is mol^-1. The constant is exact.
const Avogadro = avogadroUnits(6.02214076e+23)

type avogadroUnits float64

// Unit converts the avogadroUnits to a *unit.Unit
func (cnst avogadroUnits) Unit() *unit.Unit {
 return unit.New(float64(cnst), unit.Dimensions{
  unit.MoleDim: -1,
 })
}

func (cnst avogadroUnits) Format(fs fmt.State, c rune) {
 switch c {
 case 'v':
  if fs.Flag('#') {
```

```
  fmt.Fprintf(fs, "%T(%v)", cnst, float64(cnst))
  return
 }
 fallthrough
case 'e', 'E', 'f', 'F', 'g', 'G':
 p, pOk := fs.Precision()
 w, wOk := fs.Width()
 switch
 {
 case pOk && wOk:
  fmt.Fprintf(fs, "%*.*"+string(c), w, p, cnst.Unit())
 case pOk:
  fmt.Fprintf(fs, "%.*"+string(c), p, cnst.Unit())
 case wOk:
  fmt.Fprintf(fs, "%*"+string(c), w, cnst.Unit())
 default:
  fmt.Fprintf(fs, "%"+string(c), cnst.Unit())
 }
default:
 fmt.Fprintf(fs, "%%!"+string(c)+"(constant.avogadroUnits=%v mol^-1)", float64(cnst))
}
}
// SPDX-License-Identifier: Unlicense OR MIT

/*
Package clip provides operations for clipping paint operations.
Drawing outside the current clip area is ignored.

The current clip is initially the infinite set. An Op sets the clip
to the intersection of the current clip and the clip area it
represents. If you need to reset the current clip to its value
before applying an Op, use op.StackOp.

General clipping areas are constructed with Path. Simpler special
cases such as rectangular clip areas also exist as convenient
constructors.
*/
package clip
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package cmplx64
```

```
import math "gonum.org/v1/gonum/internal/math32"

// IsNaN returns true if either real(x) or imag(x) is NaN
// and neither is an infinity.
func IsNaN(x complex64) bool {
 switch {
 case math.IsInf(real(x), 0) || math.IsInf(imag(x), 0):
  return false
 case math.IsNaN(real(x)) || math.IsNaN(imag(x)):
  return true
 }
 return false
}

// NaN returns a complex ``not-a-number'' value.
func NaN() complex64 {
 nan := math.NaN()
 return complex(nan, nan)
}
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package gen

import (
 "testing"

 "gonum.org/v1/gonum/graph"
 "gonum.org/v1/gonum/graph/simple"
)

type duplication struct {
 UndirectedMutator
 addBackwards    bool
 addSelfLoop     bool
 addMultipleEdge bool
}

func (g *duplication) SetEdge(e graph.Edge) {
 switch {
 case e.From().ID() == e.To().ID():
  g.addSelfLoop = true
  return
 case e.From().ID() > e.To().ID():
  g.addBackwards = true
 case g.UndirectedMutator.HasEdgeBetween(e.From().ID(), e.To().ID()):
  g.addMultipleEdge = true
```

```
 }

 g.UndirectedMutator.SetEdge(e)
}

func TestDuplication(t *testing.T) {
 for n := 2; n <= 50; n++ {
  for alpha := 0.1; alpha <= 1; alpha += 0.1 {
   for delta := 0.; delta <= 1; delta += 0.2 {
    for sigma := 0.; sigma <= 1; sigma += 0.2 {
     g := &duplication{UndirectedMutator: simple.NewUndirectedGraph()}
     err := Duplication(g,
 n, delta, alpha, sigma, nil)
     if err != nil {
      t.Fatalf("unexpected error: n=%d, alpha=%v, delta=%v sigma=%v: %v", n, alpha, delta, sigma, err)
     }
     if g.addBackwards {
      t.Errorf("edge added with From.ID > To.ID: n=%d, alpha=%v, delta=%v sigma=%v", n, alpha, delta, sigma)
     }
     if g.addSelfLoop {
      t.Errorf("unexpected self edge: n=%d, alpha=%v, delta=%v sigma=%v", n, alpha, delta, sigma)
     }
     if g.addMultipleEdge {
      t.Errorf("unexpected multiple edge: n=%d, alpha=%v, delta=%v sigma=%v", n, alpha, delta, sigma)
     }
    }
   }
  }
 }
}
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package c128

import (
 "fmt"
 "testing"
)

func BenchmarkDotUnitary(t *testing.B) {
 for _, test := range []struct {
  name string
  f    func(x, y []complex128) complex128
 }{
  {"DotcUnitary", DotcUnitary},
  {"DotuUnitary", DotuUnitary},
```

```
 } {
  for _, v := range []int64{1, 2, 3, 4, 5, 10, 100, 1e3, 5e3, 1e4, 5e4} {
   t.Run(fmt.Sprintf("%s-%d", test.name, v), func(b *testing.B) {
    x, y := x[:v], y[:v]
    b.SetBytes(256 * v)
    for i := 0; i < b.N; i++ {
     benchSink = test.f(x, y)
    }
   })
  }
 }
}

func BenchmarkDotInc(t *testing.B) {
 for _, test := range []struct {
  name string
  f    func(x, y []complex128, n, incX, incY, ix, iy uintptr) complex128
 }{
  {"DotcInc", DotcInc},
  {"DotuInc", DotuInc},
 } {
  for _, ln := range []int{1, 2, 3, 4, 5, 10, 100, 1e3, 5e3, 1e4, 5e4} {
   for _, inc := range []int{1,
 2, 4, 10, -1, -2, -4, -10} {
    t.Run(fmt.Sprintf("%s-%d-inc%d", test.name, ln, inc), func(b *testing.B) {
     b.SetBytes(int64(256 * ln))
     var idx int
     if inc < 0 {
      idx = (-ln + 1) * inc
     }
     for i := 0; i < b.N; i++ {
      benchSink = test.f(x, y, uintptr(ln),
       uintptr(inc), uintptr(inc),
       uintptr(idx), uintptr(idx))
     }
    })
   }
  }
 }
}
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package testlapack

import (
 "fmt"
```

```
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
)

type Dlacpyer interface {
 Dlacpy(uplo blas.Uplo, m, n int, a []float64, lda int, b []float64, ldb int)
}

func DlacpyTest(t *testing.T, impl Dlacpyer) {
 rnd := rand.New(rand.NewSource(1))
 for _, uplo := range []blas.Uplo{blas.Upper, blas.Lower, blas.All} {
  for _, test := range []struct {
   m, n, lda, ldb int
  }{
   {3, 5, 0, 0},
   {5, 5, 0, 0},
   {7, 5, 0, 0},

   {3, 5, 10, 12},
   {5, 5, 10, 12},
   {7, 5, 10, 12},
  } {
   m := test.m
   n := test.n
   lda := test.lda
   if lda == 0 {
    lda = n
   }
   ldb := test.ldb
   if ldb == 0 {
    ldb = n
   }
   a := make([]float64, m*lda)
   for i := range a {
    a[i] = rnd.Float64()
   }
   b := make([]float64, m*ldb)
   for i := range b {
    b[i] = rnd.Float64()
   }
   impl.Dlacpy(uplo,
 m, n, a, lda, b, ldb)
   equal := true
   switch uplo {
   case blas.Upper:
```

```
    for i := 0; i < m; i++ {
     for j := i; j < n; j++ {
      if b[i*ldb+j] != a[i*lda+j] {
       equal = false
       goto DoneCheck
      }
     }
    }
   case blas.Lower:
    for i := 0; i < m; i++ {
     for j := 0; j < min(i, n); j++ {
      if b[i*ldb+j] != a[i*lda+j] {
       equal = false
       goto DoneCheck
      }
     }
    }
   case blas.All:
    for i := 0; i < m; i++ {
     for j := 0; j < n; j++ {
      if b[i*ldb+j] != a[i*lda+j] {
       equal = false
       goto DoneCheck
      }
     }
    }
   }
  DoneCheck:
   if !equal {
    fmt.Println(blas.Lower)
    t.Errorf("Matrices not equal after copy. Uplo = %d, m = %d, n = %d", uplo, m, n)
   }
  }
 }
}
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package gonum

import (
 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
)

// Dlauu2 computes the product
//  U * U  if uplo is blas.Upper
```

```
//  L * L  if uplo is blas.Lower
// where U or L is stored in the upper or lower triangular part of A.
// Only the upper or lower triangle of the result is stored, overwriting
// the corresponding factor in A.
func (impl Implementation) Dlauu2(uplo blas.Uplo, n int, a []float64, lda int) {
 switch {
 case uplo != blas.Upper && uplo != blas.Lower:
  panic(badUplo)
 case n < 0:
  panic(nLT0)
 case lda < max(1, n):
  panic(badLdA)
 }

 // Quick return if possible.
 if n == 0 {
  return
 }

 if len(a) < (n-1)*lda+n {
  panic(shortA)
 }

 bi := blas64.Implementation()

 if uplo == blas.Upper {
  // Compute the product U*U.
  for i := 0; i < n; i++ {
   aii := a[i*lda+i]
   if i < n-1
  {
    a[i*lda+i] = bi.Ddot(n-i, a[i*lda+i:], 1, a[i*lda+i:], 1)
    bi.Dgemv(blas.NoTrans, i, n-i-1, 1, a[i+1:], lda, a[i*lda+i+1:], 1,
     aii, a[i:], lda)
   } else {
    bi.Dscal(i+1, aii, a[i:], lda)
   }
  }
 } else {
  // Compute the product L*L.
  for i := 0; i < n; i++ {
   aii := a[i*lda+i]
   if i < n-1 {
    a[i*lda+i] = bi.Ddot(n-i, a[i*lda+i:], lda, a[i*lda+i:], lda)
    bi.Dgemv(blas.Trans, n-i-1, i, 1, a[(i+1)*lda:], lda, a[(i+1)*lda+i:], lda,
     aii, a[i*lda:], 1)
   } else {
    bi.Dscal(i+1, aii, a[i*lda:], 1)
```

```
   }
  }
 }
}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "errors"
 "fmt"
 "math"
 "unicode/utf8"
)

// Temperature represents a temperature in Kelvin.
type Temperature float64

const Kelvin Temperature = 1

// Unit converts the Temperature to a *Unit
func (t Temperature) Unit() *Unit {
 return New(float64(t), Dimensions{
  TemperatureDim: 1,
 })
}

// Temperature allows Temperature to implement a Temperaturer interface
func (t Temperature) Temperature() Temperature {
 return t
}

// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (t *Temperature) From(u Uniter) error {
 if !DimensionsMatch(u, Kelvin) {
  *t = Temperature(math.NaN())
  return errors.New("Dimension mismatch")
 }
 *t = Temperature(u.Unit().Value())
 return nil
}

func
```

```
 (t Temperature) Format(fs fmt.State, c rune) {
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", t, float64(t))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " K"
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(t))
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(t))
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(t))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(t))
  }
  fmt.Fprint(fs, unit)
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g K)", c, t, float64(t))
 }
}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "errors"
 "fmt"
 "math"
 "unicode/utf8"
)

// Area represents an area in square metres.
type Area float64

// Unit converts the Area to a *Unit
func (a Area) Unit() *Unit {
 return New(float64(a), Dimensions{
```

```
  LengthDim: 2,
 })
}

// Area allows Area to implement a Areaer interface
func (a Area) Area() Area {
 return a
}

// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (a *Area) From(u Uniter) error {
 if !DimensionsMatch(u, Area(0)) {
  *a = Area(math.NaN())
  return errors.New("Dimension mismatch")
 }
 *a = Area(u.Unit().Value())
 return nil
}

func (a Area) Format(fs fmt.State, c rune) {
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", a, float64(a))
   return
  }
  fallthrough
 case
 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " m^2"
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(a))
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(a))
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(a))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(a))
  }
  fmt.Fprint(fs, unit)
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g m^2)", c, a, float64(a))
 }
}
```

```
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package testblas

import (
 "testing"

 "golang.org/x/exp/rand"
)

type Izamaxer interface {
 Izamax(n int, x []complex128, incX int) int
}

func IzamaxTest(t *testing.T, impl Izamaxer) {
 rnd := rand.New(rand.NewSource(1))
 for _, n := range []int{0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 50, 100} {
  for _, incX := range []int{-5, 1, 2, 10} {
   aincX := abs(incX)
   var x []complex128
   if n > 0 {
    x = make([]complex128, (n-1)*aincX+1)
   }
   for i := range x {
    x[i] = znan
   }
   for i := 0; i < n; i++ {
    re := 2*rnd.Float64() - 1
    im := 2*rnd.Float64() - 1
    x[i*aincX] = complex(re, im)
   }

   want := -1
   if incX > 0 && n > 0 {
    want = rnd.Intn(n)
    x[want*incX] = 10 + 10i
   }
   got := impl.Izamax(n, x, incX)

   if got != want {
    t.Errorf("Case n=%v,incX=%v: unexpected result. want %v, got
 %v", n, incX, want, got)
   }
  }
 }
}
```

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```
package mathext

import "gonum.org/v1/gonum/mathext/internal/cephes"

// RegIncBeta returns the value of the regularized incomplete beta function
// I(x;a,b). It is defined as
//  I(x;a,b) = B(x;a,b) / B(a,b)
//           = (a+b) / ((a)*(b)) * int_0^x u^(a-1) * (1-u)^(b-1) du.
// The domain of definition is 0 <= x <= 1, and the parameters a and b must be positive.
// For other values of x, a, and b RegIncBeta will panic.
func RegIncBeta(a, b float64, x float64) float64 {
 return cephes.Incbet(a, b, x)
}

// InvRegIncBeta computes the inverse of the regularized incomplete beta function.
// It returns the x for which
//  y = I(x;a,b)
// The domain of definition is 0 <= y <= 1, and the parameters a and b must be
// positive. For other values of x, a, and b InvRegIncBeta will panic.
func InvRegIncBeta(a, b float64, y float64) float64
```

```
 {
 if y < 0 || y > 1 {
  panic("mathext: parameter out of range")
 }
 return cephes.Incbi(a, b, y)
}
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// This is a translation and extension of the FFTPACK test
// functions by Paul N Swarztrauber, placed in the public
// domain at http://www.netlib.org/fftpack/.
// SPDX-License-Identifier: Unlicense OR MIT

package key

// ModShortcut is the platform's shortcut modifier, usually the Ctrl
// key. On Apple platforms it is the Cmd key.
const ModShortcut = ModCommand
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package gonum

import (
 "testing"

 "gonum.org/v1/gonum/blas/testblas"
)

func TestDgemm(t *testing.T) {
 testblas.TestDgemm(t, impl)
}

func TestDsymm(t *testing.T) {
 testblas.DsymmTest(t, impl)
}

func TestDtrsm(t *testing.T) {
 testblas.DtrsmTest(t, impl)
}

func TestDsyrk(t *testing.T) {
 testblas.DsyrkTest(t, impl)
}
```

```
func TestDsyr2k(t *testing.T) {
 testblas.Dsyr2kTest(t, impl)
}

func TestDtrmm(t *testing.T) {
 testblas.DtrmmTest(t, impl)
}
//** github.com/Tencent/bk-cmdb@v3.1.0-rc.1.0.20200226072203-90d9a93e8e0c+incompatible **//
```

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 mgo r2016.08.01
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---

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3. Cobra 0.0.1
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4. go-yaml master

5. echarts 4.0.4

6.vis v4.21.0
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// Package f64 provides float64 vector primitives.
package f64 // import "gonum.org/v1/gonum/internal/asm/f64"
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// +build bounds

package barneshut

const checkBounds = true

```
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package testlapack

import "testing"

type Iladlrer interface {
 Iladlr(m, n int, a []float64, lda int) int
}

func IladlrTest(t *testing.T, impl Iladlrer) {
 for i, test := range []struct {
  a         []float64
  m, n, lda int
  ans       int
 }{
  {
   a:   []float64{0, 0, 0, 0},
   m:   1,
   n:   1,
   lda: 2,
   ans: -1,
  },
  {
   a:   []float64{0, 0, 0, 0},
   m:   2,
   n:   2,
   lda: 2,
   ans: -1,
  },
  {
   a:   []float64{0, 0, 0, 0},
   m:   4,
   n:   1,
   lda: 1,
   ans: -1,
  },
  {
   a:   []float64{0, 0, 0, 0},
   m:   1,
   n:   4,
   lda: 4,
   ans: -1,
  },
  {
   a: []float64{
```

```
    1, 2, 3, 4,
    5, 6, 7, 8,
   },
   m:   2,
   n:   4,
   lda: 4,
   ans: 1,
  },
  {
   a: []float64{
    1, 2, 3, 0,
    0, 0, 0, 0,
   },
   m:   2,
   n:   4,
   lda: 4,
   ans: 0,
  },
  {
   a: []float64{
    0, 0, 3,
 4,
    0, 0, 0, 0,
   },
   m:   2,
   n:   2,
   lda: 4,
   ans: -1,
  },
 } {
  ans := impl.Iladlr(test.m, test.n, test.a, test.lda)
  if ans != test.ans {
   t.Errorf("Column mismatch case %v. Want: %v, got: %v", i, test.ans, ans)
  }
 }
}
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package material

import (
 "gioui.org/layout"
 "gioui.org/text"
 "gioui.org/unit"
 "gioui.org/widget"
)

type CheckBox struct {
```

```
 checkable
}

func (t *Theme) CheckBox(label string) CheckBox {
 return CheckBox{
  checkable{
   Label:     label,
   Color:     t.Color.Text,
   IconColor: t.Color.Primary,
   Font: text.Font{
    Size: t.TextSize.Scale(14.0 / 16.0),
   },
   Size:              unit.Dp(26),
   shaper:            t.Shaper,
   checkedStateIcon:   t.checkBoxCheckedIcon,
   uncheckedStateIcon: t.checkBoxUncheckedIcon,
  },
 }
}

func (c CheckBox) Layout(gtx *layout.Context, checkBox *widget.CheckBox) {
 c.layout(gtx, checkBox.Checked(gtx))
 checkBox.Layout(gtx)
}
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package gonum

import "gonum.org/v1/gonum/blas"

// Dgelq2 computes the LQ factorization of the mn matrix A.
//
// In an LQ factorization, L is a lower triangular mn matrix, and Q is an nn
// orthonormal matrix.
//
// a is modified to contain the information to construct L and Q.
// The lower triangle of a contains the matrix L. The upper triangular elements
// (not including the diagonal) contain the elementary reflectors. tau is modified
// to contain the reflector scales. tau must have length of at least k = min(m,n)
// and this function will panic otherwise.
//
// See Dgeqr2 for a description of the elementary reflectors and orthonormal
// matrix Q. Q is constructed as a product of these elementary reflectors,
// Q = H_{k-1} * ... * H_1 * H_0.
//
// work is temporary storage of length at least m and this function will panic
```

```
 otherwise.
//
// Dgelq2 is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dgelq2(m, n int, a []float64, lda int, tau, work []float64) {
 switch {
 case m < 0:
  panic(mLT0)
 case n < 0:
  panic(nLT0)
 case lda < max(1, n):
  panic(badLdA)
 }

 // Quick return if possible.
 k := min(m, n)
 if k == 0 {
  return
 }

 switch {
 case len(a) < (m-1)*lda+n:
  panic(shortA)
 case len(tau) < k:
  panic(shortTau)
 case len(work) < m:
  panic(shortWork)
 }

 for i := 0; i < k; i++ {
  a[i*lda+i], tau[i] = impl.Dlarfg(n-i, a[i*lda+i], a[i*lda+min(i+1, n-1):], 1)
  if i < m-1 {
   aii := a[i*lda+i]
   a[i*lda+i] = 1
   impl.Dlarf(blas.Right, m-i-1, n-i,
    a[i*lda+i:], 1,
    tau[i],
    a[(i+1)*lda+i:], lda,
    work)
   a[i*lda+i] = aii
  }
 }
}
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package fd
```

```
import (
 "testing"

 "gonum.org/v1/gonum/floats"
 "gonum.org/v1/gonum/mat"
)

func TestLaplacian(t *testing.T) {
 for cas, test := range hessianTestCases {
  // Modify the test cases where the formula is set.
  settings := test.settings
  if settings != nil && !settings.Formula.isZero() {
   settings.Formula = Forward2nd
  }

  n := len(test.x)
  got := Laplacian(test.h.Func, test.x, test.settings)
  hess := mat.NewSymDense(n, nil)
  test.h.Hess(hess, test.x)
  var want float64
  for i := 0; i < n; i++ {
   want += hess.At(i, i)
  }
  if !floats.EqualWithinAbsOrRel(got, want, test.tol, test.tol) {
   t.Errorf("Cas %d: Laplacian mismatch. got %v, want %v", cas, got, want)
  }

  // Test that concurrency works.
  if settings == nil {
   settings = &Settings{}
  }
  settings.Concurrent = true
  got2 := Laplacian(test.h.Func,
 test.x, settings)
  if !floats.EqualWithinAbsOrRel(got, got2, 1e-5, 1e-5) {
   t.Errorf("Cas %d: Laplacian mismatch. got %v, want %v", cas, got2, got)
  }
 }
}
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package testlapack

import (
 "fmt"
 "math"
```

```
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/floats"
)

type Dlassqer interface {
 Dlassq(n int, x []float64, incx int, scale, ssq float64) (float64, float64)
}

func DlassqTest(t *testing.T, impl Dlassqer) {
 const tol = 1e-14

 rnd := rand.New(rand.NewSource(1))
 for _, n := range []int{0, 1, 2, 3, 4, 5, 10} {
  for _, incx := range []int{1, 3} {
   name := fmt.Sprintf("n=%v,incx=%v", n, incx)

   // Allocate a slice of minimum length and fill it with
   // random numbers.
   x := make([]float64, max(0, 1+(n-1)*incx))
   for i := range x {
    x[i] = rnd.Float64()
   }

   // Fill the referenced elements of x and compute the
   // expected result in a non-sophisticated way.
   scale := rnd.Float64()
   ssq := rnd.Float64()
   want := scale * scale * ssq
   for i := 0;
 i < n; i++ {
    xi := rnd.NormFloat64()
    x[i*incx] = xi
    want += xi * xi
   }

   xCopy := make([]float64, len(x))
   copy(xCopy, x)

   // Update scale and ssq so that
   //  scale_out^2 * ssq_out = x[0]^2 + ... + x[n-1]^2 + scale_in^2*ssq_in
   scale, ssq = impl.Dlassq(n, x, incx, scale, ssq)
   if !floats.Equal(x, xCopy) {
    t.Fatalf("%v: unexpected modification of x", name)
   }
```

```
   // Check the result.
   got := scale * scale * ssq
   if math.Abs(got-want) >= tol {
    t.Errorf("%v: unexpected result; got %v, want %v", name, got, want)
   }
  }
 }
}
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package gonum

import (
 "fmt"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
)

var benchSinkZ []complex128

func BenchmarkZher(b *testing.B) {
 for _, uplo := range []blas.Uplo{blas.Upper, blas.Lower} {
  for _, n := range []int{10, 100, 1000, 10000} {
   for _, inc := range []int{1, 10, 1000} {
    benchmarkZher(b, uplo, n, inc)
   }
  }
 }
}

func benchmarkZher(b *testing.B, uplo blas.Uplo, n, inc int) {
 b.Run(fmt.Sprintf("Uplo%d-N%d-Inc%d", uplo, n, inc), func(b *testing.B) {
  rnd := rand.New(rand.NewSource(1))
  alpha := rnd.NormFloat64()
  x := make([]complex128, (n-1)*inc+1)
  for i := range x {
   x[i] = complex(rnd.NormFloat64(), rnd.NormFloat64())
  }
  a := make([]complex128, len(benchSinkZ))
  for i := range a {
   a[i] = complex(rnd.NormFloat64(), rnd.NormFloat64())
  }
  benchSinkZ = make([]complex128,
```

```
 n*n)
  copy(benchSinkZ, a)
  b.ResetTimer()
  for i := 0; i < b.N; i++ {
   impl.Zher(uplo, n, alpha, x, inc, benchSinkZ, n)
   copy(benchSinkZ, a)
  }
 })
}
// Code generated by "go generate gonum.org/v1/gonum/unit/constant; DO NOT EDIT.

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package constant

import (
 "fmt"
 "testing"
)

func TestElectricConstantFormat(t *testing.T) {
 for _, test := range []struct {
  format string
  want   string
 }{
  {"%v", "8.854187817620389e-12 A^2 s^4 kg^-1 m^-3"},
  {"%.1v", "9e-12 A^2 s^4 kg^-1 m^-3"},
  {"%50.1v", "                      9e-12 A^2 s^4 kg^-1 m^-3"},
  {"%50v", "         8.854187817620389e-12 A^2 s^4 kg^-1 m^-3"},
  {"%1v", "8.854187817620389e-12 A^2 s^4 kg^-1 m^-3"},
  {"%#v", "constant.electricConstantUnits(8.854187817620389e-12)"},
  {"%s", "%!s(constant.electricConstantUnits=8.854187817620389e-12 A^2 s^4 kg^-1 m^-3)"},
 } {
  got := fmt.Sprintf(test.format, ElectricConstant)
  if got != test.want {
   t.Errorf("Format %q: got: %q want: %q", test.format, got, test.want)
  }
 }
}
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package gonum

import "gonum.org/v1/gonum/blas"
```

```
// Dlacpy copies the elements of A specified by uplo into B. Uplo can specify
// a triangular portion with blas.Upper or blas.Lower, or can specify all of the
// elemest with blas.All.
//
// Dlacpy is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dlacpy(uplo blas.Uplo, m, n int, a []float64, lda int, b []float64, ldb int) {
 switch {
 case uplo != blas.Upper && uplo != blas.Lower && uplo != blas.All:
  panic(badUplo)
 case m < 0:
  panic(mLT0)
 case n < 0:
  panic(nLT0)
 case lda < max(1, n):
  panic(badLdA)
 case ldb < max(1, n):
  panic(badLdB)
 }

 if m == 0 || n == 0 {
  return
 }

 switch {
 case len(a) < (m-1)*lda+n:
  panic(shortA)
 case len(b) < (m-1)*ldb+n:
  panic(shortB)
 }

 switch uplo {
 case blas.Upper:
  for i := 0; i < m; i++
 {
   for j := i; j < n; j++ {
    b[i*ldb+j] = a[i*lda+j]
   }
  }
 case blas.Lower:
  for i := 0; i < m; i++ {
   for j := 0; j < min(i+1, n); j++ {
    b[i*ldb+j] = a[i*lda+j]
   }
  }
 case blas.All:
  for i := 0; i < m; i++ {
   for j := 0; j < n; j++ {
```

```
    b[i*ldb+j] = a[i*lda+j]
   }
  }
 }
}
// SPDX-License-Identifier: Unlicense OR MIT

package app

import (
 "os"
 "strings"

 "gioui.org/app/internal/window"
)

// extraArgs contains extra arguments to append to
// os.Args. The arguments are separated with |.
// Useful for running programs on mobiles where the
// command line is not available.
// Set with the go linker flag -X.
var extraArgs string

func init() {
 if extraArgs != "" {
  args := strings.Split(extraArgs, "|")
  os.Args = append(os.Args, args...)
 }
}

// DataDir returns a path to use for application-specific
// configuration data.
// On desktop systems, DataDir use os.UserConfigDir.
// On iOS NSDocumentDirectory is queried.
// For Android Context.getFilesDir is used.
//
// BUG: DataDir blocks on Android until init functions
// have completed.
func DataDir() (string, error) {
 return dataDir()
}

// Main must be called from the a program's main function. It
// blocks until there are no more windows active.
//
// Calling Main is necessary because some operating
 systems
// require control of the main thread of the program for
```

```
// running windows.
func Main() {
 window.Main()
}
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// TODO(kortschak): Implement:
// * edge-weighted PageRank and HITS
// * PersonalizedPageRank:
//    http://infolab.stanford.edu/~backrub/google.html 2.1.2 Intuitive Justification
//    http://ilpubs.stanford.edu:8090/596/1/2003-35.pdf
//    http://www.vldb.org/pvldb/vol7/p1023-maehara.pdf
// * other centrality measures

package network
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// Package mathext implements special math functions not implemented by the
// Go standard library.
package mathext // import "gonum.org/v1/gonum/mathext"
//** github.com/hexops/autogold@v1.1.0 **//

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//** github.com/xdrpp/stc@v0.1.2 **//

{{Types "GPL-3.0-or-later Apache-2.0"}}


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```

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```
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// +build appengine safe

package set

import "reflect"

// same determines whether two sets are backed by the same store. In the
// current implementation using hash maps it makes use of the fact that
// hash maps are passed as a pointer to a runtime Hmap struct. A map is
// not seen by the runtime as a pointer though, so we use reflect to get
// the maps' pointer values to compare.
func same(a, b Nodes) bool {
 return reflect.ValueOf(a).Pointer() == reflect.ValueOf(b).Pointer()
}

// intsSame determines whether two sets are backed by the same store. In the
// current implementation using hash maps it makes use of the fact that
// hash maps are passed as a pointer to a runtime Hmap struct. A map is
// not seen by the runtime as a pointer though, so we use reflect to get
// the maps' pointer values to compare.
func intsSame(a,
 b Ints) bool {
 return reflect.ValueOf(a).Pointer() == reflect.ValueOf(b).Pointer()
}

// int64sSame determines whether two sets are backed by the same store. In the
// current implementation using hash maps it makes use of the fact that
// hash maps are passed as a pointer to a runtime Hmap struct. A map is
// not seen by the runtime as a pointer though, so we use reflect to get
// the maps' pointer values to compare.
func int64sSame(a, b Int64s) bool {
```

```
 return reflect.ValueOf(a).Pointer() == reflect.ValueOf(b).Pointer()
}
// This file is dual licensed under CC0 and The gonum license.
//
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//
// Copyright 2017 Robin Eklind.
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// Universal Public Domain Dedication.

package lexer_test

import (
 "archive/zip"
 "bytes"
 "io/ioutil"
 "os"
 "testing"

 "gonum.org/v1/gonum/graph/formats/dot"
)

func TestParseFile(t *testing.T) {
 golden := []struct {
  in  string
  out string
 }{
  {
   in:  "testdata/tokens.dot",
   out: "testdata/tokens.golden",
  },
 }
 for _, g := range golden {
  file, err := dot.ParseFile(g.in)
  if err != nil {
   t.Errorf("%q: unable to parse file; %v", g.in, err)
   continue
  }
  // If no output path is specified, the input is already golden.
  out := g.in
  if len(g.out) > 0 {
   out = g.out
  }
  buf, err := ioutil.ReadFile(out)
  if err != nil {
   t.Errorf("%q:
```

```
 unable to read file; %v", g.in, err)
   continue
  }
  got := file.String()
  // Remove trailing newline.
  want := string(bytes.TrimSpace(buf))
  if got != want {
   t.Errorf("%q: graph mismatch; expected %q, got %q", g.in, want, got)
  }
 }
}

func TestParseFuzz(t *testing.T) {
 r, err := zip.OpenReader("../../fuzz/corpus.zip")
 if err != nil {
  if os.IsNotExist(err) {
   t.Skip("no corpus")
  }
  t.Fatalf("failed to open corpus: %v", err)
 }
 defer r.Close()

 for _, f := range r.File {
  rc, err := f.Open()
  if err != nil {
   t.Fatalf("failed to open %q: %v", f.Name, err)
  }
  func() {
   defer func() {
    p := recover()
    if p != nil {
     t.Errorf("unexpected panic parsing %q: %v", f.Name, p)
    }
   }()

   _, err = dot.Parse(rc)
   if err != nil {
    t.Errorf("unexpected error parsing %q: %v", f.Name, err)
   }
  }()
  rc.Close()
 }
}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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// license that can be found in the LICENSE file.
```

```
package unit

import (
 "errors"
 "fmt"
 "math"
 "unicode/utf8"
)

// Frequency represents a frequency in Hertz.
type Frequency float64

const Hertz Frequency = 1

// Unit converts the Frequency to a *Unit
func (f Frequency) Unit() *Unit {
 return New(float64(f), Dimensions{
  TimeDim: -1,
 })
}

// Frequency allows Frequency to implement a Frequencyer interface
func (f Frequency) Frequency() Frequency {
 return f
}

// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (f *Frequency) From(u Uniter) error {
 if !DimensionsMatch(u, Hertz) {
  *f = Frequency(math.NaN())
  return errors.New("Dimension mismatch")
 }
 *f = Frequency(u.Unit().Value())
 return nil
}

func (f Frequency) Format(fs fmt.State,
 c rune) {
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", f, float64(f))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
```

```
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " Hz"
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(f))
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(f))
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(f))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(f))
  }
  fmt.Fprint(fs, unit)
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g Hz)", c, f, float64(f))
 }
}
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package gonum

import (
 "testing"

 "gonum.org/v1/gonum/blas/testblas"
)

func TestDzasum(t *testing.T) {
 testblas.DzasumTest(t, impl)
}

func TestDznrm2(t *testing.T) {
 testblas.Dznrm2Test(t, impl)
}

func TestIzamax(t *testing.T) {
 testblas.IzamaxTest(t, impl)
}

func TestZaxpy(t *testing.T) {
 testblas.ZaxpyTest(t, impl)
}

func TestZcopy(t *testing.T) {
 testblas.ZcopyTest(t, impl)
```

```
}

func TestZdotc(t *testing.T) {
 testblas.ZdotcTest(t, impl)
}

func TestZdotu(t *testing.T) {
 testblas.ZdotuTest(t, impl)
}

func TestZdscal(t *testing.T) {
 testblas.ZdscalTest(t, impl)
}

func TestZscal(t *testing.T) {
 testblas.ZscalTest(t, impl)
}

func TestZswap(t *testing.T) {
 testblas.ZswapTest(t, impl)
}
//** github.com/cevatbarisyilmaz/gstats@v0.1.5 **//

{{Types "CC-BY-SA-4.0"}}

By default, gstats uses https://github.com/cevatbarisyilmaz/ip2country for geolocation,
which internally uses [GeoLite2](https://dev.maxmind.com/geoip/geoip2/geolite2/)  database by Maxmind.
As GeoLite2 is distributed under
[Creative Commons Attribution-ShareAlike 4.0 International License](https://creativecommons.org/licenses/by-sa/4.0/),
gstats also uses the same license due to license's terms.

However, you can override the geolocation function to use another geolocation source
or maybe to not use geolocation at all. In this case, you can use gstats with
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package gonum

import (
 "testing"

 "gonum.org/v1/gonum/blas/testblas"
)

func TestDgemv(t *testing.T) {
```

```
 testblas.DgemvTest(t, impl)
}

func TestDger(t *testing.T) {
 testblas.DgerTest(t, impl)
}

func TestDtxmv(t *testing.T) {
 testblas.DtxmvTest(t, impl)
}

func TestDgbmv(t *testing.T) {
 testblas.DgbmvTest(t, impl)
}

func TestDtbsv(t *testing.T) {
 testblas.DtbsvTest(t, impl)
}

func TestDsbmv(t *testing.T) {
 testblas.DsbmvTest(t, impl)
}

func TestDtbmv(t *testing.T) {
 testblas.DtbmvTest(t, impl)
}

func TestDtrsv(t *testing.T) {
 testblas.DtrsvTest(t, impl)
}

func TestDtrmv(t *testing.T) {
 testblas.DtrmvTest(t, impl)
}

func TestDsymv(t *testing.T) {
 testblas.DsymvTest(t, impl)
}

func TestDsyr(t *testing.T) {
 testblas.DsyrTest(t, impl)
}

func TestDsyr2(t *testing.T) {
 testblas.Dsyr2Test(t, impl)
}

func TestDspr2(t
```

```
 *testing.T) {
 testblas.Dspr2Test(t, impl)
}

func TestDspr(t *testing.T) {
 testblas.DsprTest(t, impl)
}

func TestDspmv(t *testing.T) {
 testblas.DspmvTest(t, impl)
}

func TestDtpsv(t *testing.T) {
 testblas.DtpsvTest(t, impl)
}

func TestDtpmv(t *testing.T) {
 testblas.DtpmvTest(t, impl)
}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "errors"
 "fmt"
 "math"
 "unicode/utf8"
)

// Power represents a power in Watts.
type Power float64

const Watt Power = 1

// Unit converts the Power to a *Unit
func (pw Power) Unit() *Unit {
 return New(float64(pw), Dimensions{
  LengthDim: 2,
  MassDim:   1,
  TimeDim:   -3,
 })
}
```

```
// Power allows Power to implement a Powerer interface
func (pw Power) Power() Power {
 return pw
}

// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (pw *Power) From(u Uniter) error {
 if !DimensionsMatch(u, Watt) {
  *pw = Power(math.NaN())
  return errors.New("Dimension mismatch")
 }
 *pw = Power(u.Unit().Value())
 return nil
}

func (pw Power) Format(fs fmt.State, c rune) {
 switch c {
 case
 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", pw, float64(pw))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " W"
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(pw))
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(pw))
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(pw))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(pw))
  }
  fmt.Fprint(fs, unit)
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g W)", c, pw, float64(pw))
 }
}
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```

```
package mathext

import (
 "math"
 "testing"
)

func TestAiry(t *testing.T) {
 for _, test := range []struct {
  z, ans complex128
 }{
  // Results computed using Octave.
  {5, 1.08344428136074e-04},
  {5i, 29.9014823980070 + 21.6778315987835i},
 } {
  ans := AiryAi(test.z)
  if math.Abs(real(ans)-real(test.ans)) > 1e-10 {
   t.Errorf("Real part mismatch. Got %v, want %v", real(ans), real(test.ans))
  }
  if math.Abs(imag(ans)-imag(test.ans)) > 1e-10 {
   t.Errorf("Imaginary part mismatch. Got %v, want %v", imag(ans), imag(test.ans))
  }
 }
}
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package gonum

// Iladlr scans a matrix for its last non-zero row. Returns -1 if the matrix
// is all zeros.
//
// Iladlr is an internal routine. It is exported for testing purposes.
func (Implementation) Iladlr(m, n int, a []float64, lda int) int {
 switch {
 case m < 0:
  panic(mLT0)
 case n < 0:
  panic(nLT0)
 case lda < max(1, n):
  panic(badLdA)
 }

 if n == 0 || m == 0 {
  return -1
 }
```

```
 if len(a) < (m-1)*lda+n {
  panic(shortA)
 }

 // Check the common case where the corner is non-zero
 if a[(m-1)*lda] != 0 || a[(m-1)*lda+n-1] != 0 {
  return m - 1
 }
 for i := m - 1; i >= 0; i-- {
  for j := 0; j < n; j++ {
   if a[i*lda+j] != 0 {
    return i
   }
  }
 }
 return -1
}
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package simple

import (
 "math"

 "gonum.org/v1/gonum/graph"
)

// Node is a simple graph node.
type Node int64

// ID returns the ID number of the node.
func (n Node) ID() int64 {
 return int64(n)
}

func newSimpleNode(id int) graph.Node {
 return Node(id)
}

// Edge is a simple graph edge.
type Edge struct {
 F, T graph.Node
}
```

```
// From returns the from-node of the edge.
func (e Edge) From() graph.Node { return e.F }

// To returns the to-node of the edge.
func (e Edge) To() graph.Node { return e.T }

// ReversedLine returns a new Edge with the F and T fields
// swapped.
func (e Edge) ReversedEdge() graph.Edge { return Edge{F: e.T, T: e.F} }

// WeightedEdge is a simple weighted graph edge.
type WeightedEdge struct {
 F, T graph.Node
 W    float64
}

// From returns the from-node of the edge.
func (e WeightedEdge) From() graph.Node
 { return e.F }

// To returns the to-node of the edge.
func (e WeightedEdge) To() graph.Node { return e.T }

// ReversedLine returns a new Edge with the F and T fields
// swapped. The weight of the new Edge is the same as
// the weight of the receiver.
func (e WeightedEdge) ReversedEdge() graph.Edge { return WeightedEdge{F: e.T, T: e.F, W: e.W} }

// Weight returns the weight of the edge.
func (e WeightedEdge) Weight() float64 { return e.W }

// isSame returns whether two float64 values are the same where NaN values
// are equalable.
func isSame(a, b float64) bool {
 return a == b || (math.IsNaN(a) && math.IsNaN(b))
}

type edgeSetter interface {
 SetEdge(e graph.Edge)
}

type weightedEdgeSetter interface {
 SetWeightedEdge(e graph.WeightedEdge)
}
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```

```
// Package cmplx64 provides complex64 versions of standard library math/cmplx
// package routines used by gonum/blas.
package cmplx64 // import "gonum.org/v1/gonum/internal/cmplx64"
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package gonum

import "math"

// Dlartg generates a plane rotation so that
//  [ cs sn] * [f] = [r]
//  [-sn cs]   [g] = [0]
// This is a more accurate version of BLAS drotg, with the other differences that
// if g = 0, then cs = 1 and sn = 0, and if f = 0 and g != 0, then cs = 0 and sn = 1.
// If abs(f) > abs(g), cs will be positive.
//
// Dlartg is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dlartg(f, g float64) (cs, sn, r float64) {
 safmn2 := math.Pow(dlamchB, math.Trunc(math.Log(dlamchS/dlamchE)/math.Log(dlamchB)/2))
 safmx2 := 1 / safmn2
 if g == 0 {
  cs = 1
  sn = 0
  r = f
  return cs, sn, r
 }
 if f == 0 {
  cs = 0
  sn = 1
  r = g
  return cs, sn, r
 }
 f1 := f
 g1 := g
 scale := math.Max(math.Abs(f1), math.Abs(g1))
 if scale >= safmx2 {
  var count int
  for {
   count++
   f1
 *= safmn2
   g1 *= safmn2
   scale = math.Max(math.Abs(f1), math.Abs(g1))
   if scale < safmx2 {
    break
```

```
  }
 }
 r = math.Sqrt(f1*f1 + g1*g1)
 cs = f1 / r
 sn = g1 / r
 for i := 0; i < count; i++ {
  r *= safmx2
 }
} else if scale <= safmn2 {
 var count int
 for {
  count++
  f1 *= safmx2
  g1 *= safmx2
  scale = math.Max(math.Abs(f1), math.Abs(g1))
  if scale >= safmn2 {
   break
  }
 }
 r = math.Sqrt(f1*f1 + g1*g1)
 cs = f1 / r
 sn = g1 / r
 for i := 0; i < count; i++ {
  r *= safmn2
 }
} else {
 r = math.Sqrt(f1*f1 + g1*g1)
 cs = f1 / r
 sn = g1 / r
}
if math.Abs(f) > math.Abs(g) && cs < 0 {
 cs *= -1
 sn *= -1
 r *= -1
}
return cs, sn, r
}
// SPDX-License-Identifier: Unlicense OR MIT

package material

import (
 "image"

 "gioui.org/f32"
 "gioui.org/layout"
 "gioui.org/op"
 "gioui.org/op/clip"
```

```
 "gioui.org/op/paint"
 "gioui.org/unit"
)

// Image is a widget that displays an image.
type Image struct {
 // Src is the image to display.
 Src paint.ImageOp
 // Scale is the ratio of image pixels to
 // dps.
 Scale float32
}

func (t *Theme) Image(img paint.ImageOp) Image {
 return Image{
  Src:   img,
  Scale: 160 / 72, // About 72 DPI.
 }
}

func (im Image) Layout(gtx *layout.Context) {
 size := im.Src.Size()
 wf, hf := float32(size.X), float32(size.Y)
 w, h := gtx.Px(unit.Dp(wf*im.Scale)), gtx.Px(unit.Dp(hf*im.Scale))
 cs := gtx.Constraints
 d := image.Point{X: cs.Width.Constrain(w), Y: cs.Height.Constrain(h)}
 var s op.StackOp
 s.Push(gtx.Ops)
 clip.Rect{Rect: f32.Rectangle{Max: toPointF(d)}}.Op(gtx.Ops).Add(gtx.Ops)
 im.Src.Add(gtx.Ops)
 paint.PaintOp{Rect: f32.Rectangle{Max: f32.Point{X: float32(w), Y: float32(h)}}}.Add(gtx.Ops)
 s.Pop()
 gtx.Dimensions
 = layout.Dimensions{Size: d}
}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "fmt"
 "testing"
)
```

```
func TestRadioactivityFormat(t *testing.T) {
 for _, test := range []struct {
  value  Radioactivity
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 Bq"},
  {1.23456789, "%.1v", "1 Bq"},
  {1.23456789, "%20.1v", "               1 Bq"},
  {1.23456789, "%20v", "       1.23456789 Bq"},
  {1.23456789, "%1v", "1.23456789 Bq"},
  {1.23456789, "%#v", "unit.Radioactivity(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Radioactivity=1.23456789 Bq)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "fmt"
 "testing"
)

func TestAreaFormat(t *testing.T) {
 for _, test := range []struct {
  value  Area
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 m^2"},
  {1.23456789, "%.1v", "1 m^2"},
  {1.23456789, "%20.1v", "               1 m^2"},
  {1.23456789, "%20v", "      1.23456789 m^2"},
  {1.23456789, "%1v", "1.23456789 m^2"},
  {1.23456789, "%#v", "unit.Area(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Area=1.23456789 m^2)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
```

```
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "fmt"
 "testing"
)

func TestVelocityFormat(t *testing.T) {
 for _, test := range []struct {
  value  Velocity
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 m s^-1"},
  {1.23456789, "%.1v", "1 m s^-1"},
  {1.23456789, "%20.1v", "            1 m s^-1"},
  {1.23456789, "%20v", "   1.23456789 m s^-1"},
  {1.23456789, "%1v", "1.23456789 m s^-1"},
  {1.23456789, "%#v", "unit.Velocity(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Velocity=1.23456789 m s^-1)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
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package testlapack

import (
 "math"
 "testing"
```

```
 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/lapack"
)

type Dlanster interface {
 Dlanst(norm lapack.MatrixNorm, n int, d, e []float64) float64
 Dlanger
}

func DlanstTest(t *testing.T, impl Dlanster) {
 rnd := rand.New(rand.NewSource(1))
 for _, norm := range []lapack.MatrixNorm{lapack.MaxAbs, lapack.MaxColumnSum, lapack.MaxRowSum,
lapack.Frobenius} {
  for _, n := range []int{1, 3, 10, 100} {
   for cas := 0; cas < 100; cas++ {
    // Generate randomly the main diagonal of the
    // symmetric tridiagonal matrix A.
    d := make([]float64, n)
    for i := range d {
     d[i] = rnd.NormFloat64()
    }
    // Generate randomly the off-diagonal of A.
    e := make([]float64, n-1)
    for i := range e {
     e[i] = rnd.NormFloat64()
    }

    // Create A in dense representation.
    m
 := n
    lda := n
    a := make([]float64, m*lda)
    for i := 0; i < n; i++ {
     a[i*lda+i] = d[i]
    }
    for i := 0; i < n-1; i++ {
     a[i*lda+i+1] = e[i]
     a[(i+1)*lda+i] = e[i]
    }

    work := make([]float64, n)
    // Compute a norm of A using Dlanst.
    syNorm := impl.Dlanst(norm, n, d, e)
    // Compute a reference value for the norm using
    // Dlange and the dense representation of A.
    geNorm := impl.Dlange(norm, m, n, a, lda, work)
    if math.Abs(syNorm-geNorm) > 1e-12 {
```

```
    t.Errorf("Norm mismatch: norm = %v, cas = %v, n = %v. Want %v, got %v.", string(norm), cas, n, geNorm,
syNorm)
    }
   }
  }
 }
}
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//go:generate go run generate_defined_types.go
//go:generate go run generate_constants.go defined_types.go

// Package constant provides fundamental constants satisfying unit.Uniter.
//
// Constant values reflect the values published at https://physics.nist.gov/cuu/index.html
// and are subject to change when the published values are updated.
package constant
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package testblas

const (
 SmallMat  = 10
 MediumMat = 100
 LargeMat  = 1000
 HugeMat   = 10000
)
// Code generated by "go generate gonum.org/v1/gonum/unit/constant; DO NOT EDIT.

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package constant

import (
 "fmt"
 "testing"
)

func TestBoltzmannFormat(t *testing.T) {
 for _, test := range []struct {
  format string
  want   string
```

```
 }{
  {"%v", "1.380649e-23 kg m^2 K^-1 s^-2"},
  {"%.1v", "1e-23 kg m^2 K^-1 s^-2"},
  {"%50.1v", "                        1e-23 kg m^2 K^-1 s^-2"},
  {"%50v", "                  1.380649e-23 kg m^2 K^-1 s^-2"},
  {"%1v", "1.380649e-23 kg m^2 K^-1 s^-2"},
  {"%#v", "constant.boltzmannUnits(1.380649e-23)"},
  {"%s", "%!s(constant.boltzmannUnits=1.380649e-23 kg m^2 K^-1 s^-2)"},
 } {
  got := fmt.Sprintf(test.format, Boltzmann)
  if got != test.want {
   t.Errorf("Format %q: got: %q want: %q", test.format, got, test.want)
  }
 }
}
// SPDX-License-Identifier: Unlicense OR MIT

/*
Package storage implements read and write storage permissions
on mobile devices.

Android

The following entries will be added to AndroidManifest.xml:

   <uses-permission android:name="android.permission.READ_EXTERNAL_STORAGE"/>
   <uses-permission android:name="android.permission.WRITE_EXTERNAL_STORAGE"/>

READ_EXTERNAL_STORAGE and WRITE_EXTERNAL_STORAGE are "dangerous" permissions.
See documentation for package gioui.org/app/permission for more information.
*/
package storage
//** github.com/libp2p/hydra-booster@v0.7.3 **//

{{Types "MIT Apache-2.0"}}

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// Code generated by "go generate gonum.org/v1/gonum/unit/constant; DO NOT EDIT.

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```

```
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package constant

import (
 "fmt"

 "gonum.org/v1/gonum/unit"
)

// Planck is the Planck constant (h), it relates the energy carried by a photon to its frequency.
// The dimensions of Planck are kg m^2 s^-1. The constant is exact.
const Planck = planckUnits(6.62607015e-34)

type planckUnits float64

// Unit converts the planckUnits to a *unit.Unit
func (cnst planckUnits) Unit() *unit.Unit {
 return unit.New(float64(cnst), unit.Dimensions{
  unit.MassDim:   1,
  unit.LengthDim: 2,
  unit.TimeDim:   -1,
 })
}

func (cnst planckUnits) Format(fs fmt.State, c rune) {
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", cnst, float64(cnst))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w,
 wOk := fs.Width()
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), w, p, cnst.Unit())
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, cnst.Unit())
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), w, cnst.Unit())
  default:
   fmt.Fprintf(fs, "%"+string(c), cnst.Unit())
  }
 default:
```

```
  fmt.Fprintf(fs, "%%!"+string(c)+"(constant.planckUnits=%v kg m^2 s^-1)", float64(cnst))
 }
}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "fmt"
 "testing"
)

func TestConductanceFormat(t *testing.T) {
 for _, test := range []struct {
  value  Conductance
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 S"},
  {1.23456789, "%.1v", "1 S"},
  {1.23456789, "%20.1v", "                 1 S"},
  {1.23456789, "%20v", "        1.23456789 S"},
  {1.23456789, "%1v", "1.23456789 S"},
  {1.23456789, "%#v", "unit.Conductance(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Conductance=1.23456789 S)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
---
name: Feature request
about: Request an addition to an existing package

---
<!--
Please make sure your issue title matches the Go convention; a summary
of the problem, prefixed by the primary affected package.
-->
### What are you trying to do?
<!-- Describe the problem you are trying to solve. -->
```

What did you try?
<!-- Please include a link to a minimal reproducer here. -->

How does Gonum not allow you to achieve your goal?

What version of Go and Gonum are you using?
<!--
Paste the output of `go version` and if you are installing Gonum from source, paste
the output of `(cd $(go env GOPATH)/src/gonum.org/v1/gonum && git rev-parse HEAD)`.
-->

Is this feature absent from the current master?

Are you able to help contribute the feature?
<!-- Can you provide code contributions or information to help? -->
//**
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```
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// Package dualquat provides the dual quaternion numeric type and functions.
//
// Dual quaternions provide a system for rigid transformation with interpolation
// and blending in . See https://www.cs.utah.edu/~ladislav/kavan06dual/kavan06dual.pdf and
// https://en.wikipedia.org/wiki/Dual_quaternion for more details.
package dualquat // imports "gonum.org/v1/gonum/num/dualquat"

// TODO(kortschak): Handle special cases properly.
//  - Pow
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package topo

import (
 "testing"

 "gonum.org/v1/gonum/graph"
 "gonum.org/v1/gonum/graph/graphs/gen"
 "gonum.org/v1/gonum/graph/simple"
)

var (
 gnpDirected_10_tenth   = gnpDirected(10, 0.1)
 gnpDirected_100_tenth  = gnpDirected(100, 0.1)
 gnpDirected_1000_tenth = gnpDirected(1000, 0.1)
```

```
 gnpDirected_10_half    = gnpDirected(10, 0.5)
 gnpDirected_100_half   = gnpDirected(100, 0.5)
 gnpDirected_1000_half  = gnpDirected(1000, 0.5)
)

func gnpDirected(n int, p float64) graph.Directed {
 g := simple.NewDirectedGraph()
 gen.Gnp(g, n, p, nil)
 return g
}

func benchmarkTarjanSCC(b *testing.B, g graph.Directed) {
 var sccs [][]graph.Node
 for i := 0; i < b.N; i++ {
  sccs = TarjanSCC(g)
 }
 if len(sccs) == 0 {
  b.Fatal("unexpected number zero-sized SCC set")
 }
}

func BenchmarkTarjanSCCGnp_10_tenth(b *testing.B) {
 benchmarkTarjanSCC(b,
 gnpDirected_10_tenth)
}
func BenchmarkTarjanSCCGnp_100_tenth(b *testing.B) {
 benchmarkTarjanSCC(b, gnpDirected_100_tenth)
}
func BenchmarkTarjanSCCGnp_1000_tenth(b *testing.B) {
 benchmarkTarjanSCC(b, gnpDirected_1000_tenth)
}
func BenchmarkTarjanSCCGnp_10_half(b *testing.B) {
 benchmarkTarjanSCC(b, gnpDirected_10_half)
}
func BenchmarkTarjanSCCGnp_100_half(b *testing.B) {
 benchmarkTarjanSCC(b, gnpDirected_100_half)
}
func BenchmarkTarjanSCCGnp_1000_half(b *testing.B) {
 benchmarkTarjanSCC(b, gnpDirected_1000_half)
}
// SPDX-License-Identifier: Unlicense OR MIT

package path

import (
 "unsafe"
)
```

```
// The vertex data suitable for passing to vertex programs.
type Vertex struct {
 CornerX, CornerY int16
 MaxY             float32
 FromX, FromY     float32
 CtrlX, CtrlY     float32
 ToX, ToY         float32
}

const VertStride = 7*4 + 2*2

func init() {
 // Check that struct vertex has the expected size and
 // that it contains no padding.
 if unsafe.Sizeof(*(*Vertex)(nil)) != VertStride {
  panic("unexpected struct size")
 }
}
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// license that can be found in the LICENSE file.

// TODO(kortschak): Generate this file from shadow.go when all complex type are available.

package mat

import "gonum.org/v1/gonum/blas/cblas128"

// checkOverlapComplex returns false if the receiver does not overlap data elements
// referenced by the parameter and panics otherwise.
//
// checkOverlapComplex methods return a boolean to allow the check call to be added to a
// boolean expression, making use of short-circuit operators.
func checkOverlapComplex(a, b cblas128.General) bool {
 if cap(a.Data) == 0 || cap(b.Data) == 0 {
  return false
 }

 off := offsetComplex(a.Data[:1], b.Data[:1])

 if off == 0 {
  // At least one element overlaps.
  if a.Cols == b.Cols && a.Rows == b.Rows && a.Stride == b.Stride {
   panic(regionIdentity)
  }
  panic(regionOverlap)
 }
```

```
 if off > 0 && len(a.Data) <= off {
  // We know a is completely
 before b.
  return false
 }
 if off < 0 && len(b.Data) <= -off {
  // We know a is completely after b.
  return false
 }

 if a.Stride != b.Stride && a.Stride != 1 && b.Stride != 1 {
  // Too hard, so assume the worst; if either stride
  // is one it will be caught in rectanglesOverlap.
  panic(mismatchedStrides)
 }

 if off < 0 {
  off = -off
  a.Cols, b.Cols = b.Cols, a.Cols
 }
 if rectanglesOverlap(off, a.Cols, b.Cols, min(a.Stride, b.Stride)) {
  panic(regionOverlap)
 }
 return false
}

func (m *CDense) checkOverlapComplex(a cblas128.General) bool {
 return checkOverlapComplex(m.RawCMatrix(), a)
}

func (m *CDense) checkOverlapMatrix(a CMatrix) bool {
 if m == a {
  return false
 }
 var amat cblas128.General
 switch ar := a.(type) {
 default:
  return false
 case RawCMatrixer:
  amat = ar.RawCMatrix()
 }
 return m.checkOverlapComplex(amat)
}
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package quat
```

```
import (
 "math"
 "testing"
)

var inf = math.Inf(1)

var infTests = []struct {
 q    Number
 want bool
}{
 {q: Inf(), want: true},
 {q: Number{Real: inf, Imag: inf, Jmag: inf, Kmag: inf}, want: true},
 {q: Number{Real: -inf, Imag: -inf, Jmag: -inf, Kmag: -inf}, want: true},
 {q: Number{Real: inf, Imag: nan, Jmag: nan, Kmag: nan}, want: true},
 {q: Number{Real: nan, Imag: inf, Jmag: nan, Kmag: nan}, want: true},
 {q: Number{Real: nan, Imag: nan, Jmag: inf, Kmag: nan}, want: true},
 {q: Number{Real: nan, Imag: nan, Jmag: nan, Kmag: inf}, want: true},
 {q: Number{Real: -inf, Imag: nan, Jmag: nan, Kmag: nan}, want: true},
 {q: Number{Real: nan, Imag: -inf, Jmag: nan, Kmag: nan}, want: true},
 {q: Number{Real: nan, Imag: nan, Jmag: -inf, Kmag: nan}, want: true},
 {q: Number{Real: nan, Imag: nan, Jmag: nan, Kmag: -inf},
 want: true},
 {q: Number{Real: inf}, want: true},
 {q: Number{Imag: inf}, want: true},
 {q: Number{Jmag: inf}, want: true},
 {q: Number{Kmag: inf}, want: true},
 {q: Number{Real: -inf}, want: true},
 {q: Number{Imag: -inf}, want: true},
 {q: Number{Jmag: -inf}, want: true},
 {q: Number{Kmag: -inf}, want: true},
 {q: Number{}, want: false},
}

func TestIsInf(t *testing.T) {
 for _, test := range infTests {
  got := IsInf(test.q)
  if got != test.want {
   t.Errorf("unexpected result for IsInf(%v): got:%t want:%t", test.q, got, test.want)
  }
 }
}
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// Package linear provides common linear data structures.
```

package linear // import "gonum.org/v1/gonum/graph/internal/linear"
// Code generated by "go generate gonum.org/v1/gonum/unit/constant; DO NOT EDIT.

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package constant

import "gonum.org/v1/gonum/unit"

// FineStructure is the fine structure constant (), it describes the strength of the electromagnetic interaction between elementary charged particles. The standard uncertainty of the constant is 1.1e-12 .
const FineStructure = unit.Dimless(0.0072973525693)
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// Package error provides generated internal error functions for DOT parsing.
package errors // import "gonum.org/v1/gonum/graph/formats/dot/internal/errors"
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// Package testblas provides tests for blas implementations.
package testblas // import "gonum.org/v1/gonum/blas/testblas"
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// Package barneshut provides routines for calculating n-body force approximations
// using the Barnes-Hut algorithm.
//
// See https://en.wikipedia.org/wiki/BarnesHut_simulation, http://arborjs.org/docs/barnes-hut
// and https://jheer.github.io/barnes-hut/ for details.
package barneshut // import "gonum.org/v1/gonum/spatial/barneshut"
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// Package uid implements unique ID provision for graphs.
package uid

import "gonum.org/v1/gonum/graph/internal/set"

// Max is the maximum value of int64.
const Max = int64(^uint64(0) >> 1)

```
// Set implements available ID storage.
type Set struct {
 maxID      int64
 used, free set.Int64s
}

// NewSet returns a new Set. The returned value should not be passed except by pointer.
func NewSet() Set {
 return Set{maxID: -1, used: make(set.Int64s), free: make(set.Int64s)}
}

// NewID returns a new unique ID. The ID returned is not considered used
// until passed in a call to use.
func (s *Set) NewID() int64 {
 for id := range s.free {
  return id
 }
 if s.maxID != Max {
  return s.maxID + 1
 }
 for id := int64(0); id <= s.maxID+1; id++ {
  if !s.used.Has(id) {
   return id
  }
 }
 panic("unreachable")
}

// Use adds the id to the
 used IDs in the Set.
func (s *Set) Use(id int64) {
 s.used.Add(id)
 s.free.Remove(id)
 if id > s.maxID {
  s.maxID = id
 }
}

// Release frees the id for reuse.
func (s *Set) Release(id int64) {
 s.free.Add(id)
 s.used.Remove(id)
}
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package gonum
```

```
import (
 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
)

// Dtrti2 computes the inverse of a triangular matrix, storing the result in place
// into a. This is the BLAS level 2 version of the algorithm.
//
// Dtrti2 is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dtrti2(uplo blas.Uplo, diag blas.Diag, n int, a []float64, lda int) {
 switch {
 case uplo != blas.Upper && uplo != blas.Lower:
  panic(badUplo)
 case diag != blas.NonUnit && diag != blas.Unit:
  panic(badDiag)
 case n < 0:
  panic(nLT0)
 case lda < max(1, n):
  panic(badLdA)
 }

 if n == 0 {
  return
 }

 if len(a) < (n-1)*lda+n {
  panic(shortA)
 }

 bi := blas64.Implementation()

 nonUnit := diag == blas.NonUnit
 // TODO(btracey): Replace this with a row-major ordering.
 if uplo == blas.Upper {
  for
 j := 0; j < n; j++ {
   var ajj float64
   if nonUnit {
    ajj = 1 / a[j*lda+j]
    a[j*lda+j] = ajj
    ajj *= -1
   } else {
    ajj = -1
   }
   bi.Dtrmv(blas.Upper, blas.NoTrans, diag, j, a, lda, a[j:], lda)
   bi.Dscal(j, ajj, a[j:], lda)
  }
```

```
 return
 }
 for j := n - 1; j >= 0; j-- {
  var ajj float64
  if nonUnit {
   ajj = 1 / a[j*lda+j]
   a[j*lda+j] = ajj
   ajj *= -1
  } else {
   ajj = -1
  }
  if j < n-1 {
   bi.Dtrmv(blas.Lower, blas.NoTrans, diag, n-j-1, a[(j+1)*lda+j+1:], lda, a[(j+1)*lda+j:], lda)
   bi.Dscal(n-j-1, ajj, a[(j+1)*lda+j:], lda)
  }
 }
}
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package gonum

import "math"

// Dlae2 computes the eigenvalues of a 22 symmetric matrix
//  [a b]
//  [b c]
// and returns the eigenvalue with the larger absolute value as rt1 and the
// smaller as rt2.
//
// Dlae2 is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dlae2(a, b, c float64) (rt1, rt2 float64) {
 sm := a + c
 df := a - c
 adf := math.Abs(df)
 tb := b + b
 ab := math.Abs(tb)
 acmx := c
 acmn := a
 if math.Abs(a) > math.Abs(c) {
  acmx = a
  acmn = c
 }
 var rt float64
 if adf > ab {
  rt = adf * math.Sqrt(1+(ab/adf)*(ab/adf))
 } else if adf < ab {
```

```
 rt = ab * math.Sqrt(1+(adf/ab)*(adf/ab))
 } else {
 rt = ab * math.Sqrt2
 }
 if sm < 0 {
 rt1 = 0.5 * (sm - rt)
 rt2 = (acmx/rt1)*acmn - (b/rt1)*b
 return rt1, rt2
 }
 if sm > 0 {
 rt1 = 0.5 * (sm + rt)
 rt2 = (acmx/rt1)*acmn
 - (b/rt1)*b
 return rt1, rt2
 }
 rt1 = 0.5 * rt
 rt2 = -0.5 * rt
 return rt1, rt2
}
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package quat

import (
 "math"
 "testing"
)

var absTests = []struct {
 q    Number
 want float64
}{
 {q: Number{}, want: 0},
 {q: NaN(), want: nan},
 {q: Inf(), want: inf},
 {q: Number{Real: 1, Imag: 1, Jmag: 1, Kmag: 1}, want: 2},
 {q: Number{Real: -1, Imag: 1, Jmag: -1, Kmag: 1}, want: 2},
 {q: Number{Real: 1, Imag: 2, Jmag: 3, Kmag: 4}, want: math.Sqrt(1 + 4 + 9 + 16)},
 {q: Number{Real: -1, Imag: -2, Jmag: -3, Kmag: -4}, want: math.Sqrt(1 + 4 + 9 + 16)},
}

func TestAbs(t *testing.T) {
 for _, test := range absTests {
  got := Abs(test.q)
  if math.IsNaN(test.want) {
   if !math.IsNaN(got) {
```

```
    t.Errorf("unexpected result for Abs(%v): got:%v want:%v", test.q, got, test.want)
   }
   continue
  }
  if got != test.want {
   t.Errorf("unexpected result for Abs(%v): got:%v want:%v", test.q, got, test.want)
  }
 }
}
```

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//** github.com/daveadams/vax **//

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```
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package testlapack

import (
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/floats"
 "gonum.org/v1/gonum/lapack"
)

type Dlapller interface {
 Dgesvder
 Dlapll(n int, x []float64, incX int, y []float64, incY int) float64
}
```

```
func DlapllTest(t *testing.T, impl Dlapller) {
 rnd := rand.New(rand.NewSource(1))
 for i, m := range []int{5, 6, 9, 300, 400, 600} {
  n := 2
  lda := n
  // Allocate m2 matrix A and fill it with random numbers.
  a := make([]float64, m*lda)
  for i := range a {
   a[i] = rnd.NormFloat64()
  }
  // Store a copy of A for later comparison.
  aCopy := make([]float64, len(a))
  copy(aCopy, a)

  // Compute the smallest singular value of A.
  got := impl.Dlapll(m, a[0:], lda, a[1:], lda)

  // Compute singular values of A independently by Dgesvd.
  s := make([]float64, min(m, n))
  work := make([]float64,
 1)
  impl.Dgesvd(lapack.SVDNone, lapack.SVDNone, m, n, aCopy, lda, s, nil, 1, nil, 1, work, -1)
  work = make([]float64, int(work[0]))
  impl.Dgesvd(lapack.SVDNone, lapack.SVDNone, m, n, aCopy, lda, s, nil, 1, nil, 1, work, len(work))
  // Take the smallest singular value.
  want := s[len(s)-1]

  if !floats.EqualWithinAbsOrRel(got, want, 1e-14, 1e-14) {
   t.Errorf("Case %d: unexpected smallest singular value, got:%f want:%f", i, got, want)
  }
 }
}
//**
source: https://github.com/Workiva/frugal/blob/master/LICENSE
**//
{{Types "Apache-2.0"}}
```

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```
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// Package token provides generated internal tokenizing functions for DOT parsing.
package token // import "gonum.org/v1/gonum/graph/formats/dot/internal/token"
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// Package dot implements a parser for Graphviz DOT files.
package dot // import "gonum.org/v1/gonum/graph/formats/dot"
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package gonum

import (
 "testing"

 "golang.org/x/exp/rand"
)

func benchmarkZdscal(b *testing.B, n, inc int) {
 rnd := rand.New(rand.NewSource(1))
 alpha := rnd.NormFloat64()
 x := make([]complex128, (n-1)*inc+1)
 for i := range x {
  x[i] = complex(rnd.NormFloat64(), rnd.NormFloat64())
```

```
 }
 b.ResetTimer()
 for i := 0; i < b.N; i++ {
  impl.Zdscal(n, alpha, x, inc)
 }
}

func BenchmarkZdscalN10Inc1(b *testing.B)     { benchmarkZdscal(b, 10, 1) }
func BenchmarkZdscalN100Inc1(b *testing.B)    { benchmarkZdscal(b, 100, 1) }
func BenchmarkZdscalN1000Inc1(b *testing.B)   { benchmarkZdscal(b, 1000, 1) }
func BenchmarkZdscalN10000Inc1(b *testing.B)  { benchmarkZdscal(b, 10000, 1) }
func BenchmarkZdscalN100000Inc1(b *testing.B) { benchmarkZdscal(b, 100000, 1) }

func BenchmarkZdscalN10Inc10(b *testing.B)     { benchmarkZdscal(b, 10,
 10) }
func BenchmarkZdscalN100Inc10(b *testing.B)    { benchmarkZdscal(b, 100, 10) }
func BenchmarkZdscalN1000Inc10(b *testing.B)   { benchmarkZdscal(b, 1000, 10) }
func BenchmarkZdscalN10000Inc10(b *testing.B)  { benchmarkZdscal(b, 10000, 10) }
func BenchmarkZdscalN100000Inc10(b *testing.B) { benchmarkZdscal(b, 100000, 10) }

func BenchmarkZdscalN10Inc1000(b *testing.B)     { benchmarkZdscal(b, 10, 1000) }
func BenchmarkZdscalN100Inc1000(b *testing.B)    { benchmarkZdscal(b, 100, 1000) }
func BenchmarkZdscalN1000Inc1000(b *testing.B)   { benchmarkZdscal(b, 1000, 1000) }
func BenchmarkZdscalN10000Inc1000(b *testing.B)  { benchmarkZdscal(b, 10000, 1000) }
func BenchmarkZdscalN100000Inc1000(b *testing.B) { benchmarkZdscal(b, 100000, 1000) }
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package integrate

import (
 "math"
 "math/bits"
)

// Romberg returns an approximate value of the integral
//  \int_a^b f(x)dx
// computed using the Romberg's method. The function f is given
// as a slice of equally-spaced samples, that is,
//  f[i] = f(a + i*dx)
// and dx is the spacing between the samples.
//
// The length of f must be 2^k + 1, where k is a positive integer,
// and dx must be positive.
//
// See https://en.wikipedia.org/wiki/Romberg%27s_method for a description of
// the algorithm.
```

```
func Romberg(f []float64, dx float64) float64 {
 if len(f) < 3 {
  panic("integral: invalid slice length: must be at least 3")
 }

 if dx <= 0 {
  panic("integral: invalid spacing: must be larger than 0")
 }

 n := len(f) - 1
 k := bits.Len(uint(n - 1))

 if len(f) != 1<<uint(k)+1 {
  panic("integral: invalid slice length: must be
 2^k + 1")
 }

 work := make([]float64, 2*(k+1))
 prev := work[:k+1]
 curr := work[k+1:]

 h := dx * float64(n)
 prev[0] = (f[0] + f[n]) * 0.5 * h

 step := n
 for i := 1; i <= k; i++ {
  h /= 2
  step /= 2
  var estimate float64
  for j := 0; j < n/2; j += step {
   estimate += f[2*j+step]
  }

  curr[0] = estimate*h + 0.5*prev[0]
  for j := 1; j <= i; j++ {
   factor := math.Pow(4, float64(j))
   curr[j] = (factor*curr[j-1] - prev[j-1]) / (factor - 1)
  }

  prev, curr = curr, prev
 }
 return prev[k]
}
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// Package topo provides graph topology analysis functions.
```

```
package topo // import "gonum.org/v1/gonum/graph/topo"
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package gonum

import "gonum.org/v1/gonum/blas/blas64"

// Dlapll returns the smallest singular value of the n2 matrix A = [ x y ].
// The function first computes the QR factorization of A = Q*R, and then computes
// the SVD of the 2-by-2 upper triangular matrix r.
//
// The contents of x and y are overwritten during the call.
//
// Dlapll is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dlapll(n int, x []float64, incX int, y []float64, incY int) float64 {
 switch {
 case n < 0:
  panic(nLT0)
 case incX <= 0:
  panic(badIncX)
 case incY <= 0:
  panic(badIncY)
 }

 // Quick return if possible.
 if n == 0 {
  return 0
 }

 switch {
 case len(x) < 1+(n-1)*incX:
  panic(shortX)
 case len(y) < 1+(n-1)*incY:
  panic(shortY)
 }

 // Quick return if possible.
 if n == 1 {
  return 0
 }

 // Compute
 the QR factorization of the N-by-2 matrix [ X Y ].
 a00, tau := impl.Dlarfg(n, x[0], x[incX:], incX)
 x[0] = 1
```

```
 bi := blas64.Implementation()
 c := -tau * bi.Ddot(n, x, incX, y, incY)
 bi.Daxpy(n, c, x, incX, y, incY)
 a11, _ := impl.Dlarfg(n-1, y[incY], y[2*incY:], incY)

 // Compute the SVD of 2-by-2 upper triangular matrix.
 ssmin, _ := impl.Dlas2(a00, y[0], a11)
 return ssmin
}
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package gonum

import (
 "testing"

 "gonum.org/v1/gonum/lapack/testlapack"
)

func BenchmarkDgeev(b *testing.B) { testlapack.DgeevBenchmark(b, impl) }
```

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package c64

func conj(c complex64) complex64 { return complex(real(c), -imag(c)) }
// SPDX-License-Identifier: Unlicense OR MIT

package material

import (
 "gioui.org/layout"
 "gioui.org/text"
 "gioui.org/unit"
 "gioui.org/widget"
)

type RadioButton struct {
 checkable
 Key string
}

// RadioButton returns a RadioButton with a label. The key specifies
// the value for the Enum.
func (t *Theme) RadioButton(key, label string) RadioButton {
 return RadioButton{
  checkable: checkable{
   Label: label,

   Color:     t.Color.Text,
   IconColor: t.Color.Primary,
   Font: text.Font{
    Size: t.TextSize.Scale(14.0 / 16.0),
   },
   Size:              unit.Dp(26),
   shaper:            t.Shaper,
   checkedStateIcon:   t.radioCheckedIcon,
   uncheckedStateIcon: t.radioUncheckedIcon,
  },
  Key: key,
 }
}

func (r RadioButton) Layout(gtx *layout.Context, enum *widget.Enum) {
 r.layout(gtx, enum.Value(gtx) == r.Key)
```

```
 enum.Layout(gtx, r.Key)
}
//**
gopkg.in/adibiarsotp/dgraph.v83@v83.0.0-20171012064944-38e0eed888d7
gopkg.in/adibiarsotp/dgraph.v82@v82.0.0-20170922040331-84d68f09dda5
**//

{{Types "Apache-2.0 AGPL-3.0"}}

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package material

import (
 "image/color"
```

```
 "gioui.org/layout"
 "gioui.org/op/paint"
 "gioui.org/text"
 "gioui.org/unit"
 "gioui.org/widget"
)

type Label struct {
 // Face defines the text style.
 Font text.Font
 // Color is the text color.
 Color color.RGBA
 // Alignment specify the text alignment.
 Alignment text.Alignment
 // MaxLines limits the number of lines. Zero means no limit.
 MaxLines int
 Text     string

 shaper *text.Shaper
}

func (t *Theme) H1(txt string) Label {
 return t.Label(t.TextSize.Scale(96.0/16.0), txt)
}

func (t *Theme) H2(txt string) Label {
 return t.Label(t.TextSize.Scale(60.0/16.0), txt)
}

func (t *Theme) H3(txt string) Label {
 return t.Label(t.TextSize.Scale(48.0/16.0), txt)
}

func (t *Theme) H4(txt string) Label {
 return t.Label(t.TextSize.Scale(34.0/16.0), txt)
}

func (t *Theme) H5(txt string) Label {
 return t.Label(t.TextSize.Scale(24.0/16.0), txt)
}

func (t *Theme) H6(txt string) Label {
 return t.Label(t.TextSize.Scale(20.0/16.0),
 txt)
}

func (t *Theme) Body1(txt string) Label {
 return t.Label(t.TextSize, txt)
```

```
}

func (t *Theme) Body2(txt string) Label {
 return t.Label(t.TextSize.Scale(14.0/16.0), txt)
}

func (t *Theme) Caption(txt string) Label {
 return t.Label(t.TextSize.Scale(12.0/16.0), txt)
}

func (t *Theme) Label(size unit.Value, txt string) Label {
 return Label{
  Text:  txt,
  Color: t.Color.Text,
  Font: text.Font{
   Size: size,
  },
  shaper: t.Shaper,
 }
}

func (l Label) Layout(gtx *layout.Context) {
 paint.ColorOp{Color: l.Color}.Add(gtx.Ops)
 tl := widget.Label{Alignment: l.Alignment, MaxLines: l.MaxLines}
 tl.Layout(gtx, l.shaper, l.Font, l.Text)
}
// Code generated by gocc; DO NOT EDIT.

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//
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//
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// Universal Public Domain Dedication.

package util

import (
 "fmt"
)

func RuneToString(r rune) string {
 if r >= 0x20 && r < 0x7f {
  return fmt.Sprintf("'%c'", r)
 }
```

```
 switch r {
 case 0x07:
  return "'\\a'"
 case 0x08:
  return "'\\b'"
 case 0x0C:
  return "'\\f'"
 case 0x0A:
  return "'\\n'"
 case 0x0D:
  return "'\\r'"
 case 0x09:
  return "'\\t'"
 case 0x0b:
  return "'\\v'"
 case 0x5c:
  return "'\\\\\\'"
 case 0x27:
  return "'\\''"
 case 0x22:
  return "'\\\"'"
 }
 if r < 0x10000 {
  return fmt.Sprintf("\\u%04x", r)
 }
 return fmt.Sprintf("\\U%08x", r)
}
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package gonum

import (
 "strconv"
 "testing"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/testblas"
)

func BenchmarkDtrmv(b *testing.B) {
 for _, n := range []int{testblas.MediumMat, testblas.LargeMat} {
  for _, incX := range []int{1, 5} {
   for _, uplo := range []blas.Uplo{blas.Upper, blas.Lower} {
    for _, trans := range []blas.Transpose{blas.NoTrans, blas.Trans} {
     for _, unit := range []blas.Diag{blas.NonUnit, blas.Unit} {
      var str string
```

```
      if n == testblas.MediumMat {
       str += "Med"
      } else if n == testblas.LargeMat {
       str += "Large"
      }
      str += "_Inc" + strconv.Itoa(incX)
      if uplo == blas.Upper {
       str += "_UP"
      } else {
       str += "_LO"
      }
      if trans == blas.NoTrans {
       str += "_NT"
      } else {
       str += "_TR"
      }
      if unit
 == blas.NonUnit {
       str += "_NU"
      } else {
       str += "_UN"
      }
      lda := n
      b.Run(str, func(b *testing.B) {
       testblas.DtrmvBenchmark(b, Implementation{}, n, lda, incX, uplo, trans, unit)
      })
     }
    }
   }
  }
 }
}
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// +build !tomita

package topo

const tomitaTanakaTakahashi = false
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package gonum

import (
```

```
 "gonum.org/v1/gonum/internal/asm/f64"
)

// Ddot computes the dot product of the two vectors
//  \sum_i x[i]*y[i]
func (Implementation) Ddot(n int, x []float64, incX int, y []float64, incY int) float64 {
 if incX == 0 {
  panic(zeroIncX)
 }
 if incY == 0 {
  panic(zeroIncY)
 }
 if n <= 0 {
  if n == 0 {
   return 0
  }
  panic(nLT0)
 }
 if incX == 1 && incY == 1 {
  if len(x) < n {
   panic(shortX)
  }
  if len(y) < n {
   panic(shortY)
  }
  return f64.DotUnitary(x[:n], y[:n])
 }
 var ix, iy int
 if incX < 0 {
  ix = (-n + 1) * incX
 }
 if incY < 0 {
  iy = (-n + 1) * incY
 }
 if ix >= len(x) || ix+(n-1)*incX >= len(x) {
  panic(shortX)
 }
 if iy >= len(y) || iy+(n-1)*incY >= len(y) {
  panic(shortY)
 }
 return f64.DotInc(x, y, uintptr(n), uintptr(incX), uintptr(incY), uintptr(ix), uintptr(iy))
}
// Code generated by "go generate gonum.org/v1/gonum/unit/constant; DO NOT EDIT.

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```

```
package constant

import (
 "fmt"

 "gonum.org/v1/gonum/unit"
)

// MagneticConstant is the magnetic constant (), the magnetic permeability in a classical vacuum.
// The dimensions of MagneticConstant are A^2 s^4 kg^-1 m^-3. The standard uncertainty of the constant is 1.9e-16
A^2 s^4 kg^-1 m^-3.
const MagneticConstant = magneticConstantUnits(1.2566370621238374e-06)

type magneticConstantUnits float64

// Unit converts the magneticConstantUnits to a *unit.Unit
func (cnst magneticConstantUnits) Unit() *unit.Unit {
 return unit.New(float64(cnst), unit.Dimensions{
  unit.CurrentDim: 2,
  unit.TimeDim:    4,
  unit.MassDim:    -1,
  unit.LengthDim:  -3,
 })
}

func (cnst magneticConstantUnits) Format(fs fmt.State, c rune) {
 switch c {
 case 'v':
  if
 fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", cnst, float64(cnst))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), w, p, cnst.Unit())
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, cnst.Unit())
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), w, cnst.Unit())
  default:
   fmt.Fprintf(fs, "%"+string(c), cnst.Unit())
  }
 default:
```

```
  fmt.Fprintf(fs, "%%!"+string(c)+"(constant.magneticConstantUnits=%v A^2 s^4 kg^-1 m^-3)", float64(cnst))
 }
}
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package testlapack

import (
 "math"
 "testing"

 "gonum.org/v1/gonum/floats"
)

type Drscler interface {
 Drscl(n int, a float64, x []float64, incX int)
}

func DrsclTest(t *testing.T, impl Drscler) {
 for _, test := range []struct {
  x []float64
  a float64
 }{
  {
   x: []float64{1, 2, 3, 4, 5},
   a: 4,
  },
  {
   x: []float64{1, 2, 3, 4, 5},
   a: math.MaxFloat64,
  },
  {
   x: []float64{1, 2, 3, 4, 5},
   a: 1e-307,
  },
 } {
  xcopy := make([]float64, len(test.x))
  copy(xcopy, test.x)

  // Cannot test the scaling directly because of floating point scaling issues
  // (the purpose of Drscl). Instead, check that scaling and scaling back
  // yeilds approximately x. If overflow or underflow occurs then the scaling
  // won't match.
  impl.Drscl(len(test.x), test.a, xcopy, 1)
  if floats.Equal(xcopy, test.x) {
   t.Errorf("x
```

```
 unchanged during call to drscl. a = %v, x = %v.", test.a, test.x)
  }
  impl.Drscl(len(test.x), 1/test.a, xcopy, 1)
  if !floats.EqualApprox(xcopy, test.x, 1e-14) {
   t.Errorf("x not equal after scaling and unscaling. a = %v, x = %v.", test.a, test.x)
  }
 }
}
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package testlapack

import (
 "math"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/floats"
)

type Dlapy2er interface {
 Dlapy2(float64, float64) float64
}

func Dlapy2Test(t *testing.T, impl Dlapy2er) {
 rnd := rand.New(rand.NewSource(1))
 for i := 0; i < 10; i++ {
  x := math.Abs(1e200 * rnd.NormFloat64())
  y := math.Abs(1e200 * rnd.NormFloat64())
  got := impl.Dlapy2(x, y)
  want := math.Hypot(x, y)
  if !floats.EqualWithinRel(got, want, 1e-16) {
   t.Errorf("Dlapy2(%g, %g) = %g, want %g", x, y, got, want)
  }
 }
}
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package quat
```

```
// Conj returns the quaternion conjugate of q.
func Conj(q Number) Number {
 return Number{Real: q.Real, Imag: -q.Imag, Jmag: -q.Jmag, Kmag: -q.Kmag}
}

// Inv returns the quaternion inverse of q.
func Inv(q Number) Number {
 if IsInf(q) {
  return zero
 }
 a := Abs(q)
 return Scale(1/(a*a), Conj(q))
}
---
name: Bug Report
about: Report a problem with Gonum

---
<!--
Please make sure your issue title matches the Go convention; a summary
of the problem, prefixed by the primary affected package.
-->
### What are you trying to do?


### What did you do?
<!--
Please include a link to a minimal reproducer here. Preferably this should
be a complete runnable example at https://play.golang.org/.
-->


### What did you expect to happen?


### What actually happened?


### What version of Go and Gonum are you using?
<!--
Paste the output of `go version` and if you are installing Gonum from source, paste
the output of `(cd $(go env GOPATH)/src/gonum.org/v1/gonum && git rev-parse HEAD)`.
If you are using modules, also paste the output of `grep gonum.org/v1/gonum go.sum`,
executed in the root of your dependent module.
-->
```

```
### Does this issue reproduce with the current master?
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package functions

import (
 "math"
 "testing"

 "gonum.org/v1/gonum/diff/fd"
 "gonum.org/v1/gonum/floats"
)

func TestMinimalSurface(t *testing.T) {
 for _, size := range [][2]int{
  {20, 30},
  {30, 30},
  {50, 40},
 } {
  f := NewMinimalSurface(size[0], size[1])
  x0 := f.InitX()
  grad := make([]float64, len(x0))
  f.Grad(grad, x0)
  fdGrad := fd.Gradient(nil, f.Func, x0, &fd.Settings{Formula: fd.Central})

  // Test that the numerical and analytical gradients agree.
  dist := floats.Distance(grad, fdGrad, math.Inf(1))
  if dist > 1e-9 {
   t.Errorf("grid %v x %v: numerical and analytical gradient do not match. |fdGrad - grad|_ = %v",
    size[0], size[1], dist)
  }

  // Test that the gradient at the minimum is small enough.
  // In some sense this test is not completely correct because ExactX
  // returns the exact solution
 to the continuous problem projected on the
  // grid, not the exact solution to the discrete problem which we are
  // solving. This is the reason why a relatively loose tolerance 1e-4
  // must be used.
  xSol := f.ExactX()
  f.Grad(grad, xSol)
  norm := floats.Norm(grad, math.Inf(1))
  if norm > 1e-4 {
   t.Errorf("grid %v x %v: gradient at the minimum not small enough. |grad|_ = %v",
    size[0], size[1], norm)
  }
```

```
 }
}
# formats/dot

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needs.

Please see gonum.org/v1/gonum for general license information, contributors, authors, etc on the Gonum suite of
packages.
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "errors"
 "fmt"
 "math"
 "unicode/utf8"
)

// MagneticFluxDensity represents a magnetic flux density in Tesla.
type MagneticFluxDensity float64

const Tesla MagneticFluxDensity = 1

// Unit converts the MagneticFluxDensity to a *Unit
func (m MagneticFluxDensity) Unit() *Unit {
 return New(float64(m), Dimensions{
  CurrentDim: -1,
  MassDim:    1,
  TimeDim:    -2,
 })
}

// MagneticFluxDensity allows MagneticFluxDensity to implement a MagneticFluxDensityer interface
func (m MagneticFluxDensity) MagneticFluxDensity() MagneticFluxDensity {
 return m
}
```

```
// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (m *MagneticFluxDensity) From(u Uniter) error {
 if !DimensionsMatch(u, Tesla)
 {
  *m = MagneticFluxDensity(math.NaN())
  return errors.New("Dimension mismatch")
 }
 *m = MagneticFluxDensity(u.Unit().Value())
 return nil
}

func (m MagneticFluxDensity) Format(fs fmt.State, c rune) {
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", m, float64(m))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " T"
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(m))
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(m))
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(m))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(m))
  }
  fmt.Fprint(fs, unit)
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g T)", c, m, float64(m))
 }
}
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package testlapack

import (
 "testing"
```

```
 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/floats"
)

type Dlasv2er interface {
 Dlasv2(f, g, h float64) (ssmin, ssmax, snr, csr, snl, csl float64)
}

func Dlasv2Test(t *testing.T, impl Dlasv2er) {
 rnd := rand.New(rand.NewSource(1))
 for i := 0; i < 100; i++ {
  f := rnd.NormFloat64()
  g := rnd.NormFloat64()
  h := rnd.NormFloat64()

  ssmin, ssmax, snr, csr, snl, csl := impl.Dlasv2(f, g, h)

  // tmp =
  // [ csl snl] [f g]
  // [-snl csl] [0 h]
  tmp11 := csl * f
  tmp12 := csl*g + snl*h
  tmp21 := -snl * f
  tmp22 := -snl*g + csl*h
  // lhs =
  // [tmp11 tmp12] [csr -snr]
  // [tmp21 tmp22] [snr  csr]
  ans11 := tmp11*csr + tmp12*snr
  ans12 := tmp11*-snr + tmp12*csr
  ans21 := tmp21*csr + tmp22*snr
  ans22 := tmp21*-snr + tmp22*csr

  lhs := []float64{ans11, ans12, ans21, ans22}
  rhs
 := []float64{ssmax, 0, 0, ssmin}
  if !floats.EqualApprox(rhs, lhs, 1e-12) {
   t.Errorf("SVD mismatch. f = %v, g = %v, h = %v.\nLHS: %v\nRHS: %v", f, g, h, lhs, rhs)
  }
 }
}
// SPDX-License-Identifier: Unlicense OR MIT

package material

import (
 "image"
 "image/color"
```

```
 "gioui.org/io/pointer"
 "gioui.org/layout"
 "gioui.org/op/paint"
 "gioui.org/text"
 "gioui.org/unit"
 "gioui.org/widget"
)

type checkable struct {
 Label            string
 Color            color.RGBA
 Font             text.Font
 IconColor        color.RGBA
 Size             unit.Value
 shaper           *text.Shaper
 checkedStateIcon   *Icon
 uncheckedStateIcon *Icon
}

func (c *checkable) layout(gtx *layout.Context, checked bool) {

 var icon *Icon
 if checked {
  icon = c.checkedStateIcon
 } else {
  icon = c.uncheckedStateIcon
 }

 hmin := gtx.Constraints.Width.Min
 vmin := gtx.Constraints.Height.Min
 layout.Flex{Alignment: layout.Middle}.Layout(gtx,
  layout.Rigid(func() {
   layout.Align(layout.Center).Layout(gtx, func() {
    layout.UniformInset(unit.Dp(2)).Layout(gtx, func() {
     size := gtx.Px(c.Size)
     icon.Color = c.IconColor
     icon.Layout(gtx, unit.Px(float32(size)))
     gtx.Dimensions
 = layout.Dimensions{
      Size: image.Point{X: size, Y: size},
     }
    })
   })
  }),

  layout.Rigid(func() {
   gtx.Constraints.Width.Min = hmin
```

```
   gtx.Constraints.Height.Min = vmin
   layout.Align(layout.Start).Layout(gtx, func() {
    layout.UniformInset(unit.Dp(2)).Layout(gtx, func() {
     paint.ColorOp{Color: c.Color}.Add(gtx.Ops)
     widget.Label{}.Layout(gtx, c.shaper, c.Font, c.Label)
    })
   })
  }),
 )
 pointer.Rect(image.Rectangle{Max: gtx.Dimensions.Size}).Add(gtx.Ops)
}
```

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// Package flow provides control flow analysis functions.
package flow // import "gonum.org/v1/gonum/graph/flow"

****
  Copyright (C) 2014 by Ignace Bogaert *
****

This software package is based on the paper
  I. Bogaert, "Iteration-Free Computation of Gauss-Legendre Quadrature Nodes and Weights",
  to be published in the SIAM Journal of Scientific Computing.

The main features of this software are:
- Speed: due to the simple formulas and the O(1) complexity computation of individual Gauss-Legendre
 quadrature nodes and weights. This makes it compatible with parallel computing paradigms.
- Accuracy: the error on the nodes and weights is within a few ulps (see the paper for details).

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```
package optimize_test

import (
 "fmt"
 "log"

 "gonum.org/v1/gonum/optimize"
 "gonum.org/v1/gonum/optimize/functions"
)

func ExampleMinimize() {
 p := optimize.Problem{
  Func: functions.ExtendedRosenbrock{}.Func,
  Grad: functions.ExtendedRosenbrock{}.Grad,
 }

 x := []float64{1.3, 0.7, 0.8, 1.9, 1.2}
 result, err := optimize.Minimize(p, x, nil, nil)
 if err != nil {
  log.Fatal(err)
 }
 if err = result.Status.Err(); err != nil {
  log.Fatal(err)
 }
 fmt.Printf("result.Status: %v\n", result.Status)
 fmt.Printf("result.X: %0.4g\n", result.X)
 fmt.Printf("result.F: %0.4g\n", result.F)
 fmt.Printf("result.Stats.FuncEvaluations: %d\n", result.Stats.FuncEvaluations)
 // Output:
 // result.Status: GradientThreshold
 // result.X: [1 1 1 1 1]
 // result.F: 4.98e-30
 // result.Stats.FuncEvaluations: 31
}
// SPDX-License-Identifier: Unlicense OR MIT

// +build linux,!android freebsd

package window

import (
 "errors"
)

var mainDone = make(chan struct{})

func Main() {
 <-mainDone
```

```
}

// instead of creating files with build tags for each combination of wayland +/- x11
// let each driver initialize these variables with their own version of createWindow.
var wlDriver, x11Driver func(Callbacks, *Options) error

func NewWindow(window Callbacks, opts *Options) error {
 var errFirst, err error
 if wlDriver != nil {
  if err = wlDriver(window, opts); err == nil {
   return nil
  }
  errFirst = err
 }
 if x11Driver != nil {
  if err = x11Driver(window, opts); err == nil {
   return nil
  }
  if errFirst == nil {
   errFirst = err
  }
 }
 if errFirst != nil {
  return errFirst
 }
 return errors.New("app: no window driver available")
}
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// Package fourier provides functions to perform Discrete Fourier Transforms.
package fourier // import "gonum.org/v1/gonum/fourier"
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```
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// +build cblas

package mat

import (
 "gonum.org/v1/gonum/blas/blas64"
 "gonum.org/v1/netlib/blas/netlib"
)

func init() {
 blas64.Use(netlib.Implementation{})
}
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package distmv

// Quantiler returns the multi-dimensional inverse cumulative distribution function.
// len(x) must equal len(p), and if x is non-nil, len(x) must also equal len(p).
// If x is nil, a new slice will be allocated and returned, otherwise the quantile
// will be stored in-place into x. All of the values of p must be between 0 and 1,
// or Quantile will panic.
type Quantiler interface {
 Quantile(x, p []float64) []float64
}

// LogProber computes the log of the probability of the point x.
type LogProber interface {
 LogProb(x []float64) float64
}
```

```
// Rander generates a random number according to the distributon.
// If the input is non-nil, len(x) must equal len(p) and the dimension of the distribution,
// otherwise Quantile will panic.
// If the input is nil, a new slice will be allocated and returned.
type Rander
 interface {
 Rand(x []float64) []float64
}

// RandLogProber is both a Rander and a LogProber.
type RandLogProber interface {
 Rander
 LogProber
}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "errors"
 "fmt"
 "math"
 "unicode/utf8"
)

// Volume represents a volume in cubic metres.
type Volume float64

const Litre Volume = 1e-3

// Unit converts the Volume to a *Unit
func (v Volume) Unit() *Unit {
 return New(float64(v), Dimensions{
  LengthDim: 3,
 })
}

// Volume allows Volume to implement a Volumeer interface
func (v Volume) Volume() Volume {
 return v
}

// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
```

```
func (v *Volume) From(u Uniter) error {
 if !DimensionsMatch(u, Litre) {
  *v = Volume(math.NaN())
  return errors.New("Dimension mismatch")
 }
 *v = Volume(u.Unit().Value())
 return nil
}

func (v Volume) Format(fs fmt.State, c rune) {
 switch c {
 case 'v':
  if
 fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", v, float64(v))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " m^3"
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(v))
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(v))
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(v))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(v))
  }
  fmt.Fprint(fs, unit)
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g m^3)", c, v, float64(v))
 }
}
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package dot_test

import (
 "fmt"

 "gonum.org/v1/gonum/graph"
 "gonum.org/v1/gonum/graph/encoding/dot"
```

```
 "gonum.org/v1/gonum/graph/simple"
)

type edgeWithPorts struct {
 simple.Edge
 fromPort, toPort string
}

func (e edgeWithPorts) ReversedEdge() graph.Edge {
 e.F, e.T = e.T, e.F
 e.fromPort, e.toPort = e.toPort, e.fromPort
 return e
}

func (e edgeWithPorts) FromPort() (string, string) {
 return e.fromPort, ""
}

func (e edgeWithPorts) ToPort() (string, string) {
 return e.toPort, ""
}

func ExamplePorter() {
 g := simple.NewUndirectedGraph()
 g.SetEdge(edgeWithPorts{
  Edge:     simple.Edge{F: simple.Node(1), T: simple.Node(0)},
  fromPort: "p1",
  toPort:   "p2",
 })

 result, _ := dot.Marshal(g, "", "", "  ")
 fmt.Print(string(result))

 // Output:
 // strict graph {
 //   // Node definitions.
 //   0;
 //   1;
 //
 //
  // Edge definitions.
 //   0:p2 -- 1:p1;
 // }
}
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```

```
// Package sampleuv implements advanced sampling routines from explicit and implicit
// probability distributions.
//
// Each sampling routine is implemented as a stateless function with a
// complementary wrapper type. The wrapper types allow the sampling routines
// to implement interfaces.
package sampleuv // import "gonum.org/v1/gonum/stat/sampleuv"
//**
source: https://github.com/rocketlaunchr/dataframe-go/blob/master/LICENSE
**//
{{Types "MIT"}}

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package constant

import (
 "fmt"

 "gonum.org/v1/gonum/unit"
)

// Faraday is the Faraday constant, the magnitude of electric charge per mole of electrons.
// The dimensions of Faraday are A s mol^-1. The constant is exact.
const Faraday = faradayUnits(96485.33212)

type faradayUnits float64

// Unit converts the faradayUnits to a *unit.Unit
func (cnst faradayUnits) Unit() *unit.Unit {
 return unit.New(float64(cnst), unit.Dimensions{
  unit.CurrentDim: 1,
  unit.TimeDim:    1,
  unit.MoleDim:    -1,
```

```
 })
}

func (cnst faradayUnits) Format(fs fmt.State, c rune) {
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", cnst, float64(cnst))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w,
 wOk := fs.Width()
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), w, p, cnst.Unit())
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, cnst.Unit())
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), w, cnst.Unit())
  default:
   fmt.Fprintf(fs, "%"+string(c), cnst.Unit())
  }
 default:
  fmt.Fprintf(fs, "%%!"+string(c)+"(constant.faradayUnits=%v A s mol^-1)", float64(cnst))
 }
}
```

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package unit

```
import (
 "errors"
 "fmt"
 "math"
 "unicode/utf8"
)

// Energy represents a quantity of energy in Joules.
type Energy float64
```

```
const Joule Energy = 1

// Unit converts the Energy to a *Unit
func (e Energy) Unit() *Unit {
 return New(float64(e), Dimensions{
  LengthDim: 2,
  MassDim:   1,
  TimeDim:   -2,
 })
}

// Energy allows Energy to implement a Energyer interface
func (e Energy) Energy() Energy {
 return e
}

// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (e *Energy) From(u Uniter) error {
 if !DimensionsMatch(u, Joule) {
  *e = Energy(math.NaN())
  return errors.New("Dimension mismatch")
 }
 *e = Energy(u.Unit().Value())
 return nil
}

func (e Energy) Format(fs fmt.State,
 c rune) {
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", e, float64(e))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " J"
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(e))
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(e))
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(e))
  default:
```

```
   fmt.Fprintf(fs, "%"+string(c), float64(e))
  }
  fmt.Fprint(fs, unit)
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g J)", c, e, float64(e))
 }
}
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package ops

import (
 "encoding/binary"
 "math"

 "gioui.org/f32"
 "gioui.org/internal/opconst"
 "gioui.org/op"
)

func DecodeTransformOp(d []byte) op.TransformOp {
 bo := binary.LittleEndian
 if opconst.OpType(d[0]) != opconst.TypeTransform {
  panic("invalid op")
 }
 return op.TransformOp{}.Offset(f32.Point{
  X: math.Float32frombits(bo.Uint32(d[1:])),
  Y: math.Float32frombits(bo.Uint32(d[5:])),
 })
}
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-->

{{define "robots"}}
 <meta name="robots" content="noindex">
{{end}}

{{define "main-styles"}}
 <link href="/static/frontend/unit/licenses/licenses.min.css?version={{.AppVersionLabel}}" rel="stylesheet">
{{end}}

{{define "main-header"}}
 {{template "unit-header" .}}
{{end}}
```

```
{{define "main-content"}}
 {{block "licenses" .Details}}{{end}}
{{end}}

{{define "licenses"}}
 {{range .Licenses}}
   <section class="License" id="{{.Anchor}}">
     <h2 class="go-textTitle">
       <div id="#{{.Anchor}}">{{range $i, $e := .Types}}{{if $i}}, {{end}}{{$e}}{{end}}</div>
     </h2>
     <p>This is not legal advice. <a href="/license-policy">Read disclaimer.</a></p>
     <pre class="License-contents">{{printf "%s" .Contents}}</pre>
   </section>
   <div class="License-source go-textSubtle">Source: {{.Source}}</div>
 {{end}}
{{end}}
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// Package quat provides the quaternion numeric type and functions.
//
// For a good treatment of uses and behaviors of quaternions, see
// the interactive videos by Ben Eater and Grant Sanderson here
// https://eater.net/quaternions.
package quat // imports "gonum.org/v1/gonum/num/quat"
// SPDX-License-Identifier: Unlicense OR MIT

/*
Package paint provides drawing operations for 2D graphics.

The PaintOp operation draws the current material into a rectangular
area, taking the current clip path and transformation into account.

The material is set by either a ColorOp for a constant color, or
ImageOp for an image.
*/
package paint
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package cmplx64
```

```
// Conj returns the complex conjugate of x.
func Conj(x complex64) complex64 { return complex(real(x), -imag(x)) }
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// Package r1 provides 1D vectors and intervals and operations on them.
package r1 // import "gonum.org/v1/gonum/spatial/r1"
// SPDX-License-Identifier: Unlicense OR MIT

package headless

import (
 "image"
 "image/color"
 "testing"

 "gioui.org/f32"
 "gioui.org/op"
 "gioui.org/op/paint"
)

func TestHeadless(t *testing.T) {
 sz := image.Point{X: 800, Y: 600}
 w, err := NewWindow(sz.X, sz.Y)
 if err != nil {
  t.Skipf("headless windows not supported: %v", err)
 }

 col := color.RGBA{A: 0xff, R: 0xcc, G: 0xcc}
 var ops op.Ops
 paint.ColorOp{Color: col}.Add(&ops)
 // Paint only part of the screen to avoid the glClear optimization.
 paint.PaintOp{Rect: f32.Rectangle{Max: f32.Point{
  X: float32(sz.X) - 100,
  Y: float32(sz.Y) - 100,
 }}}.Add(&ops)
 w.Frame(&ops)

 img, err := w.Screenshot()
 if err != nil {
  t.Fatal(err)
 }
 if isz := img.Bounds().Size(); isz != sz {
  t.Errorf("got %v screenshot, expected %v", isz, sz)
 }
 if got := img.RGBAAt(0, 0); got != col {
  t.Errorf("got color %v, expected %v", got, col)
```

```
 }
}
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// Package font implements a central font registry.
package font

import (
 "sync"

 "gioui.org/text"
)

var (
 mu          sync.Mutex
 initialized bool
 shaper      = new(text.Shaper)
)

// Default returns a singleton *text.Shaper that contains
// the registered fonts.
func Default() *text.Shaper {
 mu.Lock()
 defer mu.Unlock()
 initialized = true
 return shaper
}

// Register a face. Register panics if Default has been
// called.
func Register(font text.Font, face text.Face) {
 mu.Lock()
 defer mu.Unlock()
 if initialized {
  panic("Register must be called before Default")
 }
 shaper.Register(font, face)
}
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package distmv

import (
 "math"
 "testing"
```

```
 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/mat"
)

func TestDirichlet(t *testing.T) {
 // Data from Scipy.
 for cas, test := range []struct {
  Dir  *Dirichlet
  x    []float64
  prob float64
 }{
  {
   NewDirichlet([]float64{1, 1, 1}, nil),
   []float64{0.2, 0.3, 0.5},
   2.0,
  },
  {
   NewDirichlet([]float64{0.6, 10, 8.7}, nil),
   []float64{0.2, 0.3, 0.5},
   0.24079612737071665,
  },
 } {
  p := test.Dir.Prob(test.x)
  if math.Abs(p-test.prob) > 1e-14 {
   t.Errorf("Probablility mismatch. Case %v. Got %v, want %v", cas, p, test.prob)
  }
 }

 rnd := rand.New(rand.NewSource(1))
 for cas, test := range []struct {
  Dir *Dirichlet
 }{
  {
   NewDirichlet([]float64{1, 1, 1}, rnd),
  },
  {
   NewDirichlet([]float64{2, 3}, rnd),
  },
  {
   NewDirichlet([]float64{0.2, 0.3}, rnd),
  },
  {
   NewDirichlet([]float64{0.2,
 4}, rnd),
  },
  {
   NewDirichlet([]float64{0.1, 4, 20}, rnd),
```

```
  },
 } {
  const n = 1e5
  d := test.Dir
  dim := d.Dim()
  x := mat.NewDense(n, dim, nil)
  generateSamples(x, d)
  checkMean(t, cas, x, d, 1e-2)
  checkCov(t, cas, x, d, 1e-2)
 }
}
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package path

import (
 "math"
 "reflect"
 "testing"

 "gonum.org/v1/gonum/graph"
 "gonum.org/v1/gonum/graph/path/internal/testgraphs"
)

func TestBellmanFordFrom(t *testing.T) {
 for _, test := range testgraphs.ShortestPathTests {
  g := test.Graph()
  for _, e := range test.Edges {
   g.SetWeightedEdge(e)
  }

  pt, ok := BellmanFordFrom(test.Query.From(), g.(graph.Graph))
  if test.HasNegativeCycle {
   if ok {
    t.Errorf("%q: expected negative cycle", test.Name)
   }
   continue
  }
  if !ok {
   t.Fatalf("%q: unexpected negative cycle", test.Name)
  }

  if pt.From().ID() != test.Query.From().ID() {
   t.Fatalf("%q: unexpected from node ID: got:%d want:%d", test.Name, pt.From().ID(), test.Query.From().ID())
  }
```

```
  p, weight := pt.To(test.Query.To().ID())
  if weight != test.Weight {
   t.Errorf("%q: unexpected weight from
 Between: got:%f want:%f",
    test.Name, weight, test.Weight)
  }
  if weight := pt.WeightTo(test.Query.To().ID()); weight != test.Weight {
   t.Errorf("%q: unexpected weight from Weight: got:%f want:%f",
    test.Name, weight, test.Weight)
  }

  var got []int64
  for _, n := range p {
   got = append(got, n.ID())
  }
  ok = len(got) == 0 && len(test.WantPaths) == 0
  for _, sp := range test.WantPaths {
   if reflect.DeepEqual(got, sp) {
    ok = true
    break
   }
  }
  if !ok {
   t.Errorf("%q: unexpected shortest path:\ngot: %v\nwant from:%v",
    test.Name, p, test.WantPaths)
  }

  np, weight := pt.To(test.NoPathFor.To().ID())
  if pt.From().ID() == test.NoPathFor.From().ID() && (np != nil || !math.IsInf(weight, 1)) {
   t.Errorf("%q: unexpected path:\ngot: path=%v weight=%f\nwant:path=<nil> weight=+Inf",
    test.Name, np, weight)
  }
 }
}
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package mathext

import (
 "math"
 "testing"
)

// TestCompleteKE checks if the Legendre's relation for m=0.0001(0.0001)0.9999
// is satisfied with accuracy 1e-14.
func TestCompleteKE(t *testing.T) {
 const tol = 1.0e-14

 for m := 1; m <= 9999; m++ {
  mf := float64(m) / 10000
  mp := 1 - mf
  K, Kp := CompleteK(mf), CompleteK(mp)
  E, Ep := CompleteE(mf), CompleteE(mp)
  legendre := math.Abs(E*Kp + Ep*K - K*Kp - math.Pi/2)
  if legendre > tol {
   t.Fatalf("legendre > tol: m=%v, legendre=%v, tol=%v", mf, legendre, tol)
  }
 }
}

// TestCompleteBD checks if the relations between two associate elliptic integrals B(m), D(m)
// and more common Legendre's elliptic integrals K(m), E(m) are satisfied with accuracy 1e-14
// for m=0.0001(0.0001)0.9999.
//
// K(m) and E(m) can be computed without cancellation problems as following:
// K(m)
```

```
 = B(m) + D(m),
// E(m) = B(m) + (1-m)D(m).
func TestCompleteBD(t *testing.T) {
 const tol = 1.0e-14

 for m := 1; m <= 9999; m++ {
  mf := float64(m) / 10000
  B, D := CompleteB(mf), CompleteD(mf)
  K, E := CompleteK(mf), CompleteE(mf)
  difference1 := math.Abs(K - (B + D))
  difference2 := math.Abs(E - (B + (1-mf)*D))
  if difference1 > tol {
   t.Fatalf("difference1 > tol: m=%v, difference1=%v, tol=%v", mf, difference1, tol)
  }
  if difference2 > tol {
   t.Fatalf("difference2 > tol: m=%v, difference2=%v, tol=%v", mf, difference2, tol)
  }
 }
}
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package quat

import "math"

// IsNaN returns true if any of real(q), imag(q), jmag(q), or kmag(q) is NaN
// and none are an infinity.
func IsNaN(q Number) bool {
 if math.IsInf(q.Real, 0) || math.IsInf(q.Imag, 0) || math.IsInf(q.Jmag, 0) || math.IsInf(q.Kmag, 0) {
  return false
 }
 return math.IsNaN(q.Real) || math.IsNaN(q.Imag) || math.IsNaN(q.Jmag) || math.IsNaN(q.Kmag)
}

// NaN returns a quaternion ``not-a-number'' value.
func NaN() Number {
 nan := math.NaN()
 return Number{Real: nan, Imag: nan, Jmag: nan, Kmag: nan}
}
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```

```
package testlapack

import (
 "fmt"
 "math"
 "testing"
)

type Dlae2er interface {
 Dlae2(a, b, c float64) (rt1, rt2 float64)
}

func Dlae2Test(t *testing.T, impl Dlae2er) {
 for _, test := range []struct {
  a, b, c float64
 }{
  {-10, 5, 3},
  {3, 5, -10},
  {0, 3, 0},
  {1, 3, 1},
  {1, -3, 1},
  {5, 0, 3},
  {3, 0, -5},
  {1, 3, 1.02},
  {1.02, 3, 1},
  {1, -3, -9},
 } {
  a := test.a
  b := test.b
  c := test.c
  rt1, rt2 := impl.Dlae2(a, b, c)

  errStr := fmt.Sprintf("a = %v, b = %v, c = %v", a, b, c)
  // Check if rt1 and rt2 are eigenvalues by checking if det(a - I) = 0
  a1 := a - rt1
  c1 := c - rt1
  det := a1*c1 - b*b
  if math.Abs(det) > 1e-10 {
   t.Errorf("First eigenvalue mismatch. %s. Det = %v", errStr, det)
  }

  a2 := a - rt2
  c2 := c - rt2
  det = a2*c2 - b*b
  if math.Abs(det) > 1e-10 {
   t.Errorf("Second
```

```
 eigenvalue mismatch. %s. Det = %v", errStr, det)
  }
 }
}
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// Package community provides graph community detection functions.
package community // import "gonum.org/v1/gonum/graph/community"
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// Package r3 provides 3D vectors and boxes and operations on them.
package r3 // import "gonum.org/v1/gonum/spatial/r3"
// Code generated by "go generate gonum.org/v1/gonum/unit/constant; DO NOT EDIT.

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package constant

import (
 "fmt"
 "testing"
)

func TestFaradayFormat(t *testing.T) {
 for _, test := range []struct {
  format string
  want   string
 }{
  {"%v", "96485.33212 A s mol^-1"},
  {"%.1v", "1e+05 A s mol^-1"},
  {"%50.1v", "                          1e+05 A s mol^-1"},
  {"%50v", "                     96485.33212 A s mol^-1"},
  {"%1v", "96485.33212 A s mol^-1"},
  {"%#v", "constant.faradayUnits(96485.33212)"},
  {"%s", "%!s(constant.faradayUnits=96485.33212 A s mol^-1)"},
 } {
  got := fmt.Sprintf(test.format, Faraday)
  if got != test.want {
   t.Errorf("Format %q: got: %q want: %q", test.format, got, test.want)
  }
 }
}
```

```
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package testblas

import (
 "fmt"
 "testing"

 "golang.org/x/exp/rand"
)

type Zswaper interface {
 Zswap(n int, x []complex128, incX int, y []complex128, incY int)
}

func ZswapTest(t *testing.T, impl Zswaper) {
 rnd := rand.New(rand.NewSource(1))
 for n := 0; n < 20; n++ {
  for _, inc := range allPairs([]int{-5, -1, 1, 2, 5, 10}, []int{-3, -1, 1, 3, 7, 12}) {
   incX := inc[0]
   incY := inc[1]
   aincX := abs(incX)
   aincY := abs(incY)

   var x, y []complex128
   if n > 0 {
    x = make([]complex128, (n-1)*aincX+1)
    y = make([]complex128, (n-1)*aincY+1)
   }
   for i := range x {
    x[i] = znan
   }
   for i := range y {
    y[i] = znan
   }
   for i := 0; i < n; i++ {
    x[i*aincX] = complex(rnd.NormFloat64(), rnd.NormFloat64())
    y[i*aincY] = complex(rnd.NormFloat64(), rnd.NormFloat64())
   }

   xWant := make([]complex128,
 len(x))
   for i := range xWant {
    xWant[i] = znan
   }
   yWant := make([]complex128, len(y))
```

```
   for i := range yWant {
    yWant[i] = znan
   }
   if incX*incY > 0 {
    for i := 0; i < n; i++ {
     xWant[i*aincX] = y[i*aincY]
     yWant[i*aincY] = x[i*aincX]
    }
   } else {
    for i := 0; i < n; i++ {
     xWant[(n-i-1)*aincX] = y[i*aincY]
     yWant[(n-i-1)*aincY] = x[i*aincX]
    }
   }

   impl.Zswap(n, x, incX, y, incY)

   prefix := fmt.Sprintf("Case n=%v,incX=%v,incY=%v:", n, incX, incY)
   if !zsame(x, xWant) {
    t.Errorf("%v: unexpected x:\nwant %v\ngot %v", prefix, xWant, x)
   }
   if !zsame(y, yWant) {
    t.Errorf("%v: unexpected y:\nwant %v\ngot %v", prefix, yWant, y)
   }
  }
 }
}
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// Package kdtree implements a k-d tree.
//
// See https://en.wikipedia.org/wiki/K-d_tree for more details of k-d tree functionality.
package kdtree // import "gonum.org/v1/gonum/spatial/kdtree"
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package gonum

import "math"

// Dlaev2 computes the Eigen decomposition of a symmetric 22 matrix.
// The matrix is given by
//  [a b]
//  [b c]
// Dlaev2 returns rt1 and rt2, the eigenvalues of the matrix where |RT1| > |RT2|,
```

```
// and [cs1, sn1] which is the unit right eigenvalue for RT1.
//  [ cs1 sn1] [a b] [cs1 -sn1] = [rt1   0]
//  [-sn1 cs1] [b c] [sn1  cs1]   [  0 rt2]
//
// Dlaev2 is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dlaev2(a, b, c float64) (rt1, rt2, cs1, sn1 float64) {
 sm := a + c
 df := a - c
 adf := math.Abs(df)
 tb := b + b
 ab := math.Abs(tb)
 acmx := c
 acmn := a
 if math.Abs(a) > math.Abs(c) {
  acmx = a
  acmn = c
 }
 var rt float64
 if adf > ab {
  rt = adf * math.Sqrt(1+(ab/adf)*(ab/adf))
 } else if adf < ab {
  rt = ab * math.Sqrt(1+(adf/ab)*(adf/ab))
 } else
 {
  rt = ab * math.Sqrt(2)
 }
 var sgn1 float64
 if sm < 0 {
  rt1 = 0.5 * (sm - rt)
  sgn1 = -1
  rt2 = (acmx/rt1)*acmn - (b/rt1)*b
 } else if sm > 0 {
  rt1 = 0.5 * (sm + rt)
  sgn1 = 1
  rt2 = (acmx/rt1)*acmn - (b/rt1)*b
 } else {
  rt1 = 0.5 * rt
  rt2 = -0.5 * rt
  sgn1 = 1
 }
 var cs, sgn2 float64
 if df >= 0 {
  cs = df + rt
  sgn2 = 1
 } else {
  cs = df - rt
  sgn2 = -1
 }
```

```
 acs := math.Abs(cs)
 if acs > ab {
  ct := -tb / cs
  sn1 = 1 / math.Sqrt(1+ct*ct)
  cs1 = ct * sn1
 } else {
  if ab == 0 {
   cs1 = 1
   sn1 = 0
  } else {
   tn := -cs / tb
   cs1 = 1 / math.Sqrt(1+tn*tn)
   sn1 = tn * cs1
  }
 }
 if sgn1 == sgn2 {
  tn := cs1
  cs1 = -sn1
  sn1 = tn
 }
 return rt1, rt2, cs1, sn1
}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "fmt"
 "testing"
)

func TestEnergyFormat(t *testing.T) {
 for _, test := range []struct {
  value  Energy
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 J"},
  {1.23456789, "%.1v", "1 J"},
  {1.23456789, "%20.1v", "                 1 J"},
  {1.23456789, "%20v", "        1.23456789 J"},
  {1.23456789, "%1v", "1.23456789 J"},
  {1.23456789, "%#v", "unit.Energy(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Energy=1.23456789 J)"},
```

```
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
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// +build appengine safe

package mat

import "reflect"

var sizeOfFloat64 = int(reflect.TypeOf(float64(0)).Size())

// offset returns the number of float64 values b[0] is after a[0].
func offset(a, b []float64) int {
 va0 := reflect.ValueOf(a).Index(0)
 vb0 := reflect.ValueOf(b).Index(0)
 if va0.Addr() == vb0.Addr() {
  return 0
 }
 // This expression must be atomic with respect to GC moves.
 // At this stage this is true, because the GC does not
 // move. See https://golang.org/issue/12445.
 return int(vb0.UnsafeAddr()-va0.UnsafeAddr()) / sizeOfFloat64
}

var sizeOfComplex128 = int(reflect.TypeOf(complex128(0)).Size())

// offsetComplex returns the number of complex128 values b[0] is after a[0].
func offsetComplex(a, b []complex128) int {
 va0 := reflect.ValueOf(a).Index(0)
 vb0 := reflect.ValueOf(b).Index(0)
 if va0.Addr()
 == vb0.Addr() {
  return 0
 }
 // This expression must be atomic with respect to GC moves.
 // At this stage this is true, because the GC does not
 // move. See https://golang.org/issue/12445.
 return int(vb0.UnsafeAddr()-va0.UnsafeAddr()) / sizeOfComplex128
}
```

```
// Code generated by "go generate gonum.org/v1/gonum/unit/constant; DO NOT EDIT.

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package constant

import (
 "fmt"
 "testing"
)

func TestGravitationalFormat(t *testing.T) {
 for _, test := range []struct {
  format string
  want   string
 }{
  {"%v", "6.6743e-11 m^3 kg^-1 s^-2"},
  {"%.1v", "7e-11 m^3 kg^-1 s^-2"},
  {"%50.1v", "                          7e-11 m^3 kg^-1 s^-2"},
  {"%50v", "                     6.6743e-11 m^3 kg^-1 s^-2"},
  {"%1v", "6.6743e-11 m^3 kg^-1 s^-2"},
  {"%#v", "constant.gravitationalUnits(6.6743e-11)"},
  {"%s", "%!s(constant.gravitationalUnits=6.6743e-11 m^3 kg^-1 s^-2)"},
 } {
  got := fmt.Sprintf(test.format, Gravitational)
  if got != test.want {
   t.Errorf("Format %q: got: %q want: %q", test.format, got, test.want)
  }
 }
}
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package testlapack

import (
 "math"
 "testing"

 "golang.org/x/exp/rand"
)

type Dlaev2er interface {
 Dlaev2(a, b, c float64) (rt1, rt2, cs1, sn1 float64)
}
```

```
func Dlaev2Test(t *testing.T, impl Dlaev2er) {
 rnd := rand.New(rand.NewSource(1))
 for trial := 0; trial < 100; trial++ {
  a := rnd.NormFloat64()
  b := rnd.NormFloat64()
  c := rnd.NormFloat64()

  rt1, rt2, cs1, sn1 := impl.Dlaev2(a, b, c)
  tmp := mul2by2([2][2]float64{{cs1, sn1}, {-sn1, cs1}}, [2][2]float64{{a, b}, {b, c}})
  ans := mul2by2(tmp, [2][2]float64{{cs1, -sn1}, {sn1, cs1}})
  if math.Abs(ans[0][0]-rt1) > 1e-14 {
   t.Errorf("Largest eigenvalue mismatch. Returned %v, mul %v", rt1, ans[0][0])
  }
  if math.Abs(ans[1][0]) > 1e-14 || math.Abs(ans[0][1]) > 1e-14 {
   t.Errorf("Non-zero off diagonal. ans[1][0] = %v, ans[0][1] = %v", ans[1][0], ans[0][1])
  }
  if
 math.Abs(ans[1][1]-rt2) > 1e-14 {
   t.Errorf("Smallest eigenvalue mismatch. Returned %v, mul %v", rt2, ans[1][1])
  }
 }
}

func mul2by2(a, b [2][2]float64) [2][2]float64 {
 var c [2][2]float64
 c[0][0] = a[0][0]*b[0][0] + a[0][1]*b[1][0]
 c[0][1] = a[0][0]*b[0][1] + a[0][1]*b[1][1]
 c[1][0] = a[1][0]*b[0][0] + a[1][1]*b[1][0]
 c[1][1] = a[1][0]*b[0][1] + a[1][1]*b[1][1]
 return c
}
```

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```
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package quad_test

import (
 "fmt"
 "math"
 "runtime"

 "gonum.org/v1/gonum/integrate/quad"
 "gonum.org/v1/gonum/stat/distuv"
)

func Example() {
 fmt.Println("Evaluate the expected value of x^2 + 3 under a Weibull distribution")
 f := func(x float64) float64 {
  d := distuv.Weibull{Lambda: 1, K: 1.5}
  return (x*x + 3) * d.Prob(x)
 }
 ev := quad.Fixed(f, 0, math.Inf(1), 10, nil, 0)
 fmt.Printf("EV with 10 points = %0.6v\n", ev)

 ev = quad.Fixed(f, 0, math.Inf(1), 30, nil, 0)
 fmt.Printf("EV with 30 points = %0.6v\n", ev)

 ev = quad.Fixed(f, 0, math.Inf(1), 100, nil, 0)
 fmt.Printf("EV with 100 points = %0.6v\n", ev)

 ev = quad.Fixed(f, 0, math.Inf(1), 10000, nil, 0)
 fmt.Printf("EV with 10000 points = %0.6v\n\n", ev)

 fmt.Println("Estimate using parallel evaluations of f.")
 concurrent := runtime.GOMAXPROCS(0)
 ev = quad.Fixed(f,
 0, math.Inf(1), 100, nil, concurrent)
 fmt.Printf("EV = %0.6v\n", ev)
 // Output:
 // Evaluate the expected value of x^2 + 3 under a Weibull distribution
 // EV with 10 points = 4.20175
 // EV with 30 points = 4.19066
```

```
 // EV with 100 points = 4.19064
 // EV with 10000 points = 4.19064
 //
 // Estimate using parallel evaluations of f.
 // EV = 4.19064
}
// Code generated by "go generate gonum.org/v1/gonum/unit/constant; DO NOT EDIT.

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package constant

import "gonum.org/v1/gonum/unit"

// AtomicMass is the atomic mass constant (m), one twelfth of the mass of an unbound atom of carbon-12 at rest and
in its ground state.
// The dimension of AtomicMass is kg. The standard uncertainty of the constant is 5e-37 kg.
const AtomicMass = unit.Mass(1.6605390666e-27)
// SPDX-License-Identifier: Unlicense OR MIT

/*
Package bluetooth implements permissions to access Bluetooth and Bluetooth
Low Energy hardware, including the ability to discover and pair devices.

Android

The following entries will be added to AndroidManifest.xml:

   <uses-permission android:name="android.permission.BLUETOOTH"/>
   <uses-permission android:name="android.permission.BLUETOOTH_ADMIN"/>
   <uses-permission android:name="android.permission.ACCESS_FINE_LOCATION"/>
   <uses-feature android:name="android.hardware.bluetooth" android:required="false"/>
   <uses-feature android:name="android.hardware.bluetooth_le" android:required="false"/>

Note that ACCESS_FINE_LOCATION is required on Android before the Bluetooth
device may be used.
See https://developer.android.com/guide/topics/connectivity/bluetooth.

ACCESS_FINE_LOCATION is a "dangerous" permission. See documentation for
package gioui.org/app/permission for more information.
*/
package bluetooth
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```

```
// Package multi provides a suite of multigraph implementations satisfying
// the gonum/graph interfaces.
//
// All types in multi return the graph.Empty value for empty iterators.
package multi // import "gonum.org/v1/gonum/graph/multi"
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package r2

// Vec is a 2D vector.
type Vec struct {
 X, Y float64
}

// Add returns the vector sum of p and q.
func (p Vec) Add(q Vec) Vec {
 p.X += q.X
 p.Y += q.Y
 return p
}

// Sub returns the vector sum of p and -q.
func (p Vec) Sub(q Vec) Vec {
 p.X -= q.X
 p.Y -= q.Y
 return p
}

// Scale returns the vector p scaled by f.
func (p Vec) Scale(f float64) Vec {
 p.X *= f
 p.Y *= f
 return p
}

// Box is a 2D bounding box.
type Box struct {
 Min, Max Vec
}
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// Package lp implements routines to solve linear programming problems.
package lp // import "gonum.org/v1/gonum/optimize/convex/lp"
```

```
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package topo

import (
 "gonum.org/v1/gonum/graph"
 "gonum.org/v1/gonum/graph/traverse"
)

// IsPathIn returns whether path is a path in g.
//
// As special cases, IsPathIn returns true for a zero length path or for
// a path of length 1 when the node in path exists in the graph.
func IsPathIn(g graph.Graph, path []graph.Node) bool {
 switch len(path) {
 case 0:
  return true
 case 1:
  return g.Node(path[0].ID()) != nil
 default:
  var canReach func(uid, vid int64) bool
  switch g := g.(type) {
  case graph.Directed:
   canReach = g.HasEdgeFromTo
  default:
   canReach = g.HasEdgeBetween
  }

  for i, u := range path[:len(path)-1] {
   if !canReach(u.ID(), path[i+1].ID()) {
    return false
   }
  }
  return true
 }
}

// PathExistsIn returns whether there is a path in g starting at from extending
// to to.
//
// PathExistsIn
 exists as a helper function. If many tests for path existence
// are being performed, other approaches will be more efficient.
func PathExistsIn(g graph.Graph, from, to graph.Node) bool {
 var t traverse.BreadthFirst
 return t.Walk(g, from, func(n graph.Node, _ int) bool { return n.ID() == to.ID() }) != nil
```

```
}

// ConnectedComponents returns the connected components of the undirected graph g.
func ConnectedComponents(g graph.Undirected) [][]graph.Node {
 var (
  w  traverse.DepthFirst
  c  []graph.Node
  cc [][]graph.Node
 )
 during := func(n graph.Node) {
  c = append(c, n)
 }
 after := func() {
  cc = append(cc, []graph.Node(nil))
  cc[len(cc)-1] = append(cc[len(cc)-1], c...)
  c = c[:0]
 }
 w.WalkAll(g, nil, after, during)

 return cc
}
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// Package integrate provides functions to compute an integral given a
// specific list of evaluations.
package integrate // import "gonum.org/v1/gonum/integrate"
// Code generated by "go generate gonum.org/v1/gonum/unit/constant; DO NOT EDIT.

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package constant

import "gonum.org/v1/gonum/unit"

// ElementaryCharge, is the elementary charge constant (e), the magnitude of electric charge carried by a single
proton or electron.
// The dimensions of ElementaryCharge are A s. The constant is exact.
const ElementaryCharge = unit.Charge(1.602176634e-19)
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// +build !amd64 noasm appengine safe
```

```
package f64

// ScalUnitary is
//  for i := range x {
//   x[i] *= alpha
//  }
func ScalUnitary(alpha float64, x []float64) {
 for i := range x {
  x[i] *= alpha
 }
}

// ScalUnitaryTo is
//  for i, v := range x {
//   dst[i] = alpha * v
//  }
func ScalUnitaryTo(dst []float64, alpha float64, x []float64) {
 for i, v := range x {
  dst[i] = alpha * v
 }
}

// ScalInc is
//  var ix uintptr
//  for i := 0; i < int(n); i++ {
//   x[ix] *= alpha
//   ix += incX
//  }
func ScalInc(alpha float64, x []float64, n, incX uintptr) {
 var ix uintptr
 for i := 0; i < int(n); i++ {
  x[ix] *= alpha
  ix += incX
 }
}

// ScalIncTo is
//  var idst, ix uintptr
//  for i := 0; i < int(n); i++ {
//   dst[idst] = alpha * x[ix]
//   ix += incX
//   idst += incDst
//  }
func ScalIncTo(dst []float64, incDst uintptr,
 alpha float64, x []float64, n, incX uintptr) {
 var idst, ix uintptr
 for i := 0; i < int(n); i++ {
  dst[idst] = alpha * x[ix]
```

```
  ix += incX
  idst += incDst
 }
}
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// Package c128 provides complex128 vector primitives.
package c128 // import "gonum.org/v1/gonum/internal/asm/c128"
// Code generated by "go generate gonum.org/v1/gonum/unit/constant; DO NOT EDIT.

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package constant

import "gonum.org/v1/gonum/unit"

// StandardGravity is the standard gravity constant (g), the nominal gravitational acceleration of an object in a
vacuum near the surface of the Earth
// The dimensions of StandardGravity are m s^-2. The constant is exact.
const StandardGravity = unit.Acceleration(9.80665)
//**
source: https://github.com/gardener/autoscaler/blob/v0.1.0/LICENSE
**//
{{Types "Apache-2.0 BSD-2-Clause BSD-3-Clause ISC MIT MPL-2.0"}}
```

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Set of dependencies used by [kubernetes/autoscaler](https://github.wdf.sap.corp/kubernetes/autoscaler/) can be found
at [Godeps.json](./cluster-autoscaler/Godeps/Godeps.json).

Google Cloud Client Libraries for Go
https://github.com/GoogleCloudPlatform/google-cloud-go
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Microsoft Azure SDK for Go
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Go package for ANSI terminal emulation in Windows
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Windows Performance Data Helper wrapper package for Go
https://github.com/JeffAshton/win_pdh/
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Package heredoc provides the here-document with keeping indent.
https://github.com/MakeNowJust/heredoc
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Win32 IO-related utilities for Go
https://github.com/Microsoft/go-winio
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Windows - Host Compute Service Shim
https://github.com/Microsoft/hcsshim
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Golang middleware to gzip HTTP responses
https://github.com/NYTimes/gziphandler
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Gotty is a library written in Go that provides interpretation and loading of Termcap database files.
https://github.com/Nvveen/Gotty
Copyright (c) 2012, Neal van Veen (nealvanveen@gmail.com)
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purell - tiny Go library to normalize URLs
https://github.com/PuerkitoBio/purell
Copyright (c) 2012, Martin Angers
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urlesc - Proper URL escaping as per RFC3986
https://github.com/PuerkitoBio/urlesc
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go-http-auth - Basic and Digest HTTP Authentication for golang http
https://github.com/abbot/go-http-auth
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appc spec - App Container Specification and Tooling
https://github.com/appc/spec
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circbuf - Golang circular (ring) buffer

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AWS SDK for the Go programming language.
https://github.com/aws/aws-sdk-go
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perks - Effective Computation of Things
https://github.com/beorn7/perks
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semver - Semantic Versioning (semver) library written in golang
https://github.com/blang/semver
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Flocker go library
https://github.com/clusterhq/flocker-go
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goscaleio - ScaleIO package that provides API bindings for Go
https://github.com/thecodeteam/goscaleio
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Container Storage Interface (CSI) Specification.
https://github.com/container-storage-interface/spec
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containerd console - console package for Go
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containerd - An open and reliable container runtime
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Container Network Interface - networking for Linux containers
https://github.com/containernetworking/cni
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etcd - Distributed reliable key-value store for the most critical data of a distributed system
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go-semver - semver library in Go
https://github.com/coreos/go-semver
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go-systemd - Go bindings to systemd socket activation, journal, D-Bus, and unit files
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coreos pkg - a collection of go utility packages
https://github.com/coreos/pkg
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rkt - is a pod-native container engine for Linux.
https://github.com/rkt/rkt
Copyright 2016 The rkt Authors
Apache 2 license https://github.com/rkt/rkt/blob/master/LICENSE

cyphar filepath-securejoin - Proposed filepath.SecureJoin implementation
https://github.com/cyphar/filepath-securejoin
Copyright (C) 2014-2015 Docker Inc & Go Authors. All rights reserved.
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3 clause BSD license https://github.com/cyphar/filepath-securejoin/blob/master/LICENSE

DHCP4 library written in Go.
https://github.com/d2g/dhcp4
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dhcp4client - DHCP Client
https://github.com/d2g/dhcp4client
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go-spew - Implements a deep pretty printer for Go data structures to aid in debugging
https://github.com/davecgh/go-spew
Copyright (c) 2012-2016 Dave Collins <dave@davec.name>
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safefile - Go package safefile implements safe "atomic" saving of files.
https://github.com/dchest/safefile
Copyright (c) 2013 Dmitry Chestnykh <dmitry@codingrobots.com>
2 clause BSD license https://github.com/dchest/safefile/blob/master/LICENSE

jwdt-go - Golang implementation of JSON Web Tokens (JWT)
https://github.com/dgrijalva/jwt-go
Copyright (c) 2012 Dave Grijalva
MIT license https://github.com/dgrijalva/jwt-go/blob/master/LICENSE

The Docker toolset to pack, ship, store, and deliver content
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Moby Project - a collaborative project for the container ecosystem to assemble container-based systems
https://github.com/docker/docker
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go-connections - Utility package to work with network connections
https://github.com/docker/go-connections
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go-units - Parse and print size and time units in human-readable format
https://github.com/docker/go-units
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Docker networking
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libtrust - Primitives for identity and authorization
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spdystream
https://github.com/docker/spdystream
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go-bindata-assetfs - Serves embedded files from 'jteeuwen/go-bindata'
with 'net/http'
https://github.com/elazarl/go-bindata-assetfs
Copyright (c) 2014, Elazar Leibovich
2 clause BSD license https://github.com/elazarl/go-bindata-assetfs/blob/master/LICENSE

go-restful-swagger12 - Swagger 1.2 extension to the go-restful package
https://github.com/emicklei/go-restful-swagger12
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go-restful - package for building REST-style Web Services using Google Go
https://github.com/emicklei/go-restful
Copyright (c) 2012,2013 Ernest Micklei
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go-kmsg-parser - A simpler parser for the /dev/kmsg format
https://github.com/euank/go-kmsg-parser
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Apache 2 license https://github.com/euank/go-kmsg-parser/blob/master/LICENSE

json-patch - A Go library to apply RFC6902 patches and create and apply RFC7386 patches
https://github.com/evanphx/json-patch
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jsonpath - Extends the Go runtime's json.Decoder enabling navigation of a stream of json tokens.
https://github.com/exponent-io/jsonpath
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camelcase - Split a camelcase word into a slice of words in Go
https://github.com/fatih/camelcase
Copyright (c) 2015 Fatih Arslan
MIT license https://github.com/fatih/camelcase/blob/master/LICENSE.md

fsnotify - Cross-platform file system notifications for Go.
https://github.com/fsnotify/fsnotify
Copyright (c) 2012 The Go Authors. All rights reserved.
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3 clause BSD license https://github.com/fsnotify/fsnotify/blob/master/LICENSE

gardener machine-controller-manager - Declarative way of managing machines for Kubernetes cluster
https://github.com/gardener/machine-controller-manager
Copyright (c) 2017-2018 SAP SE or an SAP affiliate company.
All rights reserved.
Apache 2 license https://github.com/gardener/machine-controller-manager/blob/master/LICENSE.md

yaml - A better way to marshal and unmarshal YAML in Golang
https://github.com/ghodss/yaml
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ini - Package ini provides INI file read and write functionality in Go.
https://github.com/go-ini/ini
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jsonpointer - fork of gojsonpointer with support for structs
https://github.com/go-openapi/jsonpointer
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jsonreference - fork of gojsonreference with support for structs
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go-openapi spec - openapi specification object model
https://github.com/go-openapi/spec
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go-openapi swag - goodie bag in use in the go-openapi projects
https://github.com/go-openapi/swag
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godbus dbus - Native Go bindings for D-Bus
Copyright (c) 2013, Georg Reinke (<guelfey at gmail dot com>), Google
2 clause BSD license https://github.com/godbus/dbus/blob/master/LICENSE

protobuf - Protocol Buffers for Go with Gadgets
https://github.com/gogo/protobuf
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glog - Leveled execution logs for Go
https://github.com/golang/glog
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groupcache - groupcache is a caching and cache-filling library,
intended as a replacement for memcached in many cases.
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golang mock - GoMock is a mocking framework for the Go programming language.
https://github.com/golang/mock

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golang protobuf - Go support for Google's protocol buffers
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google btree
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google cadvisor - Analyzes resource usage and performance characteristics of running containers.
https://github.com/google/cadvisor
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gofuzz - Fuzz testing for go.
https://github.com/google/gofuzz
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Apache 2 license https://github.com/google/gofuzz/blob/master/LICENSE

gnostic - A compiler for API described by the OpenAPI Specification with plugins for code generation and other API support tasks.
https://github.com/googleapis/gnostic
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Gophercloud: an OpenStack SDK for Go
https://github.com/gophercloud/gophercloud/
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websocket - A WebSocket implementation for Go.
https://github.com/gorilla/websocket
Copyright (c) 2013 The Gorilla WebSocket Authors. All rights reserved.
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httpcache - A Transport for http.Client that will cache responses according to the HTTP RFC
https://github.com/gregjones/httpcache
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  2012 Greg Jones (greg.jones@gmail.com)
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Golang LRU cache
https://github.com/hashicorp/golang-lru

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gopass - getpasswd for Go
https://github.com/howeyc/gopass/blob/master/LICENSE.txt
Copyright (c) 2012 Chris Howey
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Mergo: merging Go structs and maps since 2013.
https://github.com/imdario/mergo
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Copyright (c) 2012 The Go Authors. All rights reserved.
3 clause BSD license https://github.com/imdario/mergo/blob/master/LICENSE

mousetrap - Detect starting from Windows explorer
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go-jmespath - Golang implementation of JMESPath.
https://github.com/jmespath/go-jmespath
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go json-iterator - A high-performance 100% compatible drop-in replacement of "encoding/json"
https://github.com/json-iterator/go
Copyright (c) 2016 json-iterator
MIT license https://github.com/json-iterator/go/blob/master/LICENSE

osext - Extensions to the standard "os" package. Executable and ExecutableFolder.
https://github.com/kardianos/osext/
Copyright (c) 2012 The Go Authors. All rights reserved.
Apache 2 license https://github.com/kardianos/osext/blob/master/LICENSE

fs - Package fs provides filesystem-related functions.
https://github.com/kr/fs
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3 clause BSD license https://github.com/kr/fs/blob/main/LICENSE

PTY interface for Go
https://github.com/kr/pty/
Copyright (c) 2011 Keith Rarick
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openstorage - A multi-host clustered
implementation of the open storage specification
https://github.com/libopenstorage/openstorage
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godbc - Design by contract for Go
https://github.com/lpabon/godbc
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easyjson - Fast JSON serializer for golang
https://github.com/mailru/easyjson
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guid - A Go implementation of Guids as seen in Microsoft's .NET Framework
https://github.com/marstr/guid
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golang_protobuf_extensions - Support for streaming Protocol Buffer messages for the Go language (golang).
Copyright 2016 Matt T. Proud
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dns
 - DNS library in Go
https://github.com/miekg/dns
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onvml - NVIDIA Management Library (NVML) bindings for Go
https://github.com/mindprince/gonvml
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go-zfs - Go wrappers for ZFS commands
https://github.com/mistifyio/go-zfs
Apache 2 license https://github.com/mistifyio/go-zfs/blob/master/LICENSE

go-wordwrap - A Go (golang) library for wrapping words in a string.
https://github.com/mitchellh/go-wordwrap
Copyright (c) 2014 Mitchell Hashimoto
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mapstructure - Go library for decoding generic map values into native Go structures.
https://github.com/mitchellh/mapstructure
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deepcopy

- Deep copy things
https://github.com/mohae/deepcopy
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fileutils - collection of utilities for file manipulation in golang
https://github.com/mrunalp/fileutils/
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go-digest - Common digest package used across the container ecosystem
https://github.com/opencontainers/go-digest
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image-spec - OCI Image Format
https://github.com/opencontainers/image-spec
Copyright 2016 The Linux Foundation.
Apache 2 license https://github.com/opencontainers/image-spec/blob/master/LICENSE

runc - CLI tool for spawning and running containers according to the OCI specification
https://github.com/opencontainers/runc
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runtime-spec - OCI Runtime
Specification
https://github.com/opencontainers/runtime-spec
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selinux - common selinux implementation
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uuid - Automatically exported from code.google.com/p/go-uuid
https://github.com/pborman/uuid
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3 clause BSD license https://github.com/pborman/uuid/blob/master/LICENSE

diskv - A disk-backed key-value store.
https://github.com/peterbourgon/diskv
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errors - Simple error handling primitives
https://github.com/pkg/errors
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SFTP support for the go.crypto/ssh package
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go-difflib - Partial port of Python difflib package to Go
https://github.com/pmezard/go-difflib
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prometheus client_golang - Prometheus instrumentation library for Go applications
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prometheus client_model - Data model artifacts for Prometheus.
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prometheus common - Go libraries shared across Prometheus components and libraries.
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procfs
- provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc
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https://github.com/quobyte/api
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go-rancher - Go language bindings for Rancher API
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dedent - Remove any common leading whitespace from multiline strings
https://github.com/renstrom/dedent
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go-vhd - Go package and CLI to work with VHD images

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Blackfriday:
a markdown processor for Go
https://github.com/russross/blackfriday/
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uuid - UUID package for Go
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sanitized_anchor_name - Package sanitized_anchor_name provides a func to create sanitized anchor names.
https://github.com/shurcooL/sanitized_anchor_name
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logrus - Structured, pluggable logging for Go.
https://github.com/sirupsen/logrus
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afero - A FileSystem Abstraction System for Go
https://github.com/spf13/afero
Copyright 2016 Steve Francia <spf@spf13.com>.
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cobra - A Commander for modern Go CLI interactions
https://github.com/spf13/cobra
Copyright 2013 Steve Francia <spf@spf13.com>.
Apache 2 license https://github.com/spf13/cobra/blob/master/LICENSE.txt

pflag - Drop-in replacement for Go's flag package, implementing POSIX/GNU-style --flags.
https://github.com/spf13/pflag
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objx - Go package for dealing with maps, slices, JSON and other data.
https://github.com/stretchr/objx
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testify - A toolkit with common assertions and mocks that plays nicely with the standard library
https://github.com/stretchr/testify
Copyright (c) 2012 - 2013 Mat Ryer and Tyler Bunnell
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gocapability - Utilities for manipulating POSIX capabilities in Go.
https://github.com/syndtr/gocapability
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ugorji go - idiomatic codec and rpc lib for msgpack, cbor, json, etc. msgpack.org[Go]
https://github.com/ugorji/go
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netlink - Simple netlink library for go.
https://github.com/vishvananda/netlink
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netns
- Simple network namespace handling for go.
https://github.com/vishvananda/netns
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govmomi - Go library for the VMware vSphere API
https://github.com/vmware/govmomi
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go-cloudstack - A CloudStack API client enabling Go programs to interact with CloudStack in a simple and uniform

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https://github.com/xanzy/go-cloudstack
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crypto - [mirror] Go supplementary cryptography libraries
https://github.com/golang/crypto/
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exp - [mirror] Experimental and deprecated packages
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net - [mirror] Go supplementary network libraries
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Go OAuth2
https://github.com/golang/oauth2/
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sys - [mirror] Go packages for low-level interaction with the operating system
https://github.com/golang/sys/
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text - [mirror] Go text processing support
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time - [mirror] Go supplementary time packages
https://github.com/golang/time/
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google-api-go-client - Auto-generated Google APIs for Go

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go-genproto
https://github.com/google/go-genproto
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grpc-go - The Go language implementation
of gRPC. HTTP/2 based RPC
https://github.com/grpc/grpc-go
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gcfg - read INI-style configuration files into Go structs; supports user-defined types and subsections
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inf - Package inf (type inf.Dec) implements "infinite-precision" decimal arithmetic.
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go-jose - An implementation of JOSE standards (JWE, JWS, JWT) in Go
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Apache 2 license https://github.com/square/go-jose/blob/master/LICENSE

warnings - Package warnings implements error handling
with non-fatal errors (warnings).
https://github.com/go-warnings/warnings
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yaml - YAML support for the Go language.
https://github.com/go-yaml/yaml
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kubernetes api - The canonical location of the Kubernetes API definition.
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kubernetes API server for API extensions like CustomResourceDefinitions
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kubernetes apiserver - Library for writing a Kubernetes-style API server.
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Go client for Kubernetes.
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kubernetes - Production-Grade Container Scheduling and Management
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utils -
Non-Kubernetes-specific utility libraries which are consumed by multiple projects.
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util - Go utility packages
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```
-----------------------------------------------------
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package fd

import (
 "math"
 "runtime"
 "sync"
)

// Derivative estimates the derivative of the function f at the given location.
// The finite difference formula, the step size, and other options are
// specified by settings. If settings is nil, the first derivative will be
// estimated using the Forward formula and a default step size.
func Derivative(f func(float64) float64, x float64, settings *Settings) float64 {
 // Default settings.
 formula := Forward
 step := formula.Step
 var originValue float64
 var originKnown, concurrent bool

 // Use user settings if provided.
 if settings != nil {
  if !settings.Formula.isZero() {
   formula = settings.Formula
   step = formula.Step
   checkFormula(formula)
  }
  if settings.Step != 0 {
   step = settings.Step
  }
  originKnown = settings.OriginKnown
  originValue = settings.OriginValue
  concurrent
 = settings.Concurrent
 }

 var deriv float64
 if !concurrent || runtime.GOMAXPROCS(0) == 1 {
  for _, pt := range formula.Stencil {
   if originKnown && pt.Loc == 0 {
    deriv += pt.Coeff * originValue
    continue
   }
```

```
  deriv += pt.Coeff * f(x+step*pt.Loc)
 }
 return deriv / math.Pow(step, float64(formula.Derivative))
}

wg := &sync.WaitGroup{}
mux := &sync.Mutex{}
for _, pt := range formula.Stencil {
 if originKnown && pt.Loc == 0 {
  mux.Lock()
  deriv += pt.Coeff * originValue
  mux.Unlock()
  continue
 }
 wg.Add(1)
 go func(pt Point) {
  defer wg.Done()
  fofx := f(x + step*pt.Loc)
  mux.Lock()
  defer mux.Unlock()
  deriv += pt.Coeff * fofx
 }(pt)
}
wg.Wait()
return deriv / math.Pow(step, float64(formula.Derivative))
}
//**
source: https://github.com/mindworks-software/hid/blob/master/LICENSE.md
**//
{{Types "BSD-3-Clause LGPL-2.1"}}


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// Package network provides network analysis functions.
```

```
package network // import "gonum.org/v1/gonum/graph/network"
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// Package vptree implements a vantage point tree. Vantage point
// trees provide an efficient search for nearest neighbors in a
// metric space.
//
// See http://pnylab.com/papers/vptree/vptree.pdf for details of vp-trees.
package vptree // import "gonum.org/v1/gonum/spatial/vptree"
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package distmv

var (
 badQuantile      = "distmv: quantile not between 0 and 1"
 badReceiver      = "distmv: input slice is not nil or the correct length"
 badSizeMismatch  = "distmv: size mismatch"
 badZeroDimension = "distmv: zero dimensional input"
 nonPosDimension  = "distmv: non-positive dimension input"
)

const logTwoPi = 1.8378770664093454835606594728112352797227949472755668

// useAs gets a slice of size n. If len(x) == n, x is returned, if len(x) == 0
// then a slice is returned of length n.
func reuseAs(x []float64, n int) []float64 {
 if len(x) == n {
  return x
 }
 if len(x) == 0 {
  if cap(x) >= n {
   return x[:n]
  }
  return make([]float64, n)
 }
 panic(badReceiver)
}
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source: https://github.com/golang/freetype/blob/master/LICENSE
**//
{{Types "Freetype"}}

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// Package lexer provides generated internal lexer functions for DOT parsing.
package lexer // import "gonum.org/v1/gonum/graph/formats/dot/internal/lexer"
//** github.com/18f/e-qip-prototype@v1.0.15 **//

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package mathext

import (
 "math"

 "gonum.org/v1/gonum/mathext/internal/cephes"
)

const (
 allowedATol = 1e-306
 allowedRTol = 1e-6
)

func gammaIncReg(x float64, params []float64) float64 {
 return cephes.Igam(params[0], x) - params[1]
}

// gammaIncRegInv is the inverse of the regularized incomplete Gamma integral. That is, it
// returns x such that:
//  Igam(a, x) = y
// The input argument a must be positive and y must be between 0 and 1
// inclusive or gammaIncRegInv will panic. gammaIncRegInv should return a
// positive number, but can return NaN if there is a failure to converge.
func gammaIncRegInv(a, y float64) float64 {
 // For y not small, we just use
 //  IgamI(a, 1-y)
 // (inverse
 of the complemented incomplete Gamma integral). For y small,
 // however, 1-y is about 1, and we lose digits.
 if a <= 0 || y <= 0 || y >= 0.25 {
  return cephes.IgamI(a, 1-y)
 }

 lo := 0.0
 flo := -y
 hi := cephes.IgamI(a, 0.75)
 fhi := 0.25 - y

 params := []float64{a, y}

 // Also, after we generate a small interval by bisection above, false
 // position will do a large step from an interval of width ~1e-4 to ~1e-14
 // in one step (a=10, x=0.05, but similar for other values).
 result, bestX, _, errEst := falsePosition(lo, hi, flo, fhi, 2*machEp, 2*machEp, 1e-2*a, gammaIncReg, params)
 if result == fSolveMaxIterations && errEst > allowedATol+allowedRTol*math.Abs(bestX) {
  bestX = math.NaN()
```

```
 }

 return bestX
}
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package gonum

import "math"

// Dlas2 computes the singular values of the 22 matrix defined by
//  [F G]
//  [0 H]
// The smaller and larger singular values are returned in that order.
//
// Dlas2 is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dlas2(f, g, h float64) (ssmin, ssmax float64) {
 fa := math.Abs(f)
 ga := math.Abs(g)
 ha := math.Abs(h)
 fhmin := math.Min(fa, ha)
 fhmax := math.Max(fa, ha)
 if fhmin == 0 {
  if fhmax == 0 {
   return 0, ga
  }
  v := math.Min(fhmax, ga) / math.Max(fhmax, ga)
  return 0, math.Max(fhmax, ga) * math.Sqrt(1+v*v)
 }
 if ga < fhmax {
  as := 1 + fhmin/fhmax
  at := (fhmax - fhmin) / fhmax
  au := (ga / fhmax) * (ga / fhmax)
  c := 2 / (math.Sqrt(as*as+au) + math.Sqrt(at*at+au))
  return fhmin * c, fhmax / c
 }
 au := fhmax / ga
 if au == 0 {
  return
 fhmin * fhmax / ga, ga
 }
 as := 1 + fhmin/fhmax
 at := (fhmax - fhmin) / fhmax
 c := 1 / (math.Sqrt(1+(as*au)*(as*au)) + math.Sqrt(1+(at*au)*(at*au)))
 return 2 * (fhmin * c) * au, ga / (c + c)
}
```

```
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "errors"
 "fmt"
 "math"
 "unicode/utf8"
)

// Mass represents a mass in kilograms.
type Mass float64

const (
 Gram Mass = 1e-3

 Kilogram = Kilo * Gram
)

// Unit converts the Mass to a *Unit
func (m Mass) Unit() *Unit {
 return New(float64(m), Dimensions{
  MassDim: 1,
 })
}

// Mass allows Mass to implement a Masser interface
func (m Mass) Mass() Mass {
 return m
}

// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (m *Mass) From(u Uniter) error {
 if !DimensionsMatch(u, Gram) {
  *m = Mass(math.NaN())
  return errors.New("Dimension mismatch")
 }
 *m = Mass(u.Unit().Value())
 return nil
}

func (m Mass) Format(fs fmt.State, c rune) {
```

```
 switch c {
 case 'v':
  if fs.Flag('#')
  {
   fmt.Fprintf(fs, "%T(%v)", m, float64(m))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " kg"
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(m))
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(m))
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(m))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(m))
  }
  fmt.Fprint(fs, unit)
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g kg)", c, m, float64(m))
 }
}
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package testgraph

import (
 "reflect"
 "testing"

 "gonum.org/v1/gonum/graph"
 "gonum.org/v1/gonum/graph/simple"
)

var randomNodesTests = []struct {
 n    int
 seed uint64
 new  func(int64) graph.Node
 want []graph.Node
}{
 {
```

```
 n:    0,
 want: nil,
},
{
 n:    1,
 seed: 1,
 new:  newSimpleNode,
 want: []graph.Node{simple.Node(-106976941678315313)},
},
{
 n:    1,
 seed: 2,
 new:  newSimpleNode,
 want: []graph.Node{simple.Node(6816453162648937526)},
},
{
 n:    4,
 seed: 1,
 new:  newSimpleNode,
 want: []graph.Node{
  simple.Node(-106976941678315313),
  simple.Node(867649948573917593),
  simple.Node(-4246677790793934368),
  simple.Node(406519965772129914),
 },
},
{
 n:    4,
 seed: 2,
 new:  newSimpleNode,
 want: []graph.Node{
  simple.Node(6816453162648937526),
  simple.Node(-4921844272880608907),
  simple.Node(1590888328915576 80),
  simple.Node(-2611333848016927708),
 },
},
}

func
 newSimpleNode(id int64) graph.Node { return simple.Node(id) }

func TestRandomNodesIterate(t *testing.T) {
 for _, test := range randomNodesTests {
  for i := 0; i < 2; i++ {
   it := NewRandomNodes(test.n, test.seed, test.new)
   if it.Len() != len(test.want) {
    t.Errorf("unexpected iterator length for round %d: got:%d want:%d", i, it.Len(), len(test.want))
```

```
   }
   var got []graph.Node
   for it.Next() {
    got = append(got, it.Node())
   }
   if !reflect.DeepEqual(got, test.want) {
    t.Errorf("unexpected iterator output for round %d: got:%#v want:%#v", i, got, test.want)
   }
   it.Reset()
  }
 }
}
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// Package mds provides multidimensional scaling functions.
package mds // import "gonum.org/v1/gonum/stat/mds"
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "errors"
 "fmt"
 "math"
 "unicode/utf8"
)

// Velocity represents a velocity in metres per second.
type Velocity float64

// Unit converts the Velocity to a *Unit
func (v Velocity) Unit() *Unit {
 return New(float64(v), Dimensions{
  LengthDim: 1,
  TimeDim:   -1,
 })
}

// Velocity allows Velocity to implement a Velocityer interface
func (v Velocity) Velocity() Velocity {
 return v
}
```

```
// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (v *Velocity) From(u Uniter) error {
 if !DimensionsMatch(u, Velocity(0)) {
  *v = Velocity(math.NaN())
  return errors.New("Dimension mismatch")
 }
 *v = Velocity(u.Unit().Value())
 return nil
}

func (v Velocity) Format(fs fmt.State, c rune)
 {
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", v, float64(v))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " m s^-1"
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(v))
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(v))
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(v))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(v))
  }
  fmt.Fprint(fs, unit)
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g m s^-1)", c, v, float64(v))
 }
}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit
```

```
import (
 "fmt"
 "testing"
)

func TestEquivalentRadioactiveDoseFormat(t *testing.T) {
 for _, test := range []struct {
  value  EquivalentRadioactiveDose
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 Sy"},
  {1.23456789, "%.1v", "1 Sy"},
  {1.23456789, "%20.1v", "                1 Sy"},
  {1.23456789, "%20v", "       1.23456789 Sy"},
  {1.23456789, "%1v", "1.23456789 Sy"},
  {1.23456789, "%#v", "unit.EquivalentRadioactiveDose(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.EquivalentRadioactiveDose=1.23456789 Sy)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
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package mat

import "testing"

func TestCDenseNewAtSet(t *testing.T) {
 for cas, test := range []struct {
  a          []complex128
  rows, cols int
 }{
  {
   a: []complex128{0, 0, 0,
    0, 0, 0,
    0, 0, 0},
   rows: 3,
   cols: 3,
  },
 } {
  aCopy := make([]complex128, len(test.a))
  copy(aCopy, test.a)
```

```
  mZero := NewCDense(test.rows, test.cols, nil)
  rows, cols := mZero.Dims()
  if rows != test.rows {
   t.Errorf("unexpected number of rows for test %d: got: %d want: %d", cas, rows, test.rows)
  }
  if cols != test.cols {
   t.Errorf("unexpected number of cols for test %d: got: %d want: %d", cas, cols, test.cols)
  }
  m := NewCDense(test.rows, test.cols, aCopy)
  for i := 0; i < test.rows; i++ {
   for j := 0; j < test.cols; j++ {
    v := m.At(i, j)
    idx := i*test.rows + j
    if v != test.a[idx] {
     t.Errorf("unexpected
 get value for test %d at i=%d, j=%d: got: %v, want: %v", cas, i, j, v, test.a[idx])
    }
    add := complex(float64(i+1), float64(j+1))
    m.Set(i, j, v+add)
    if m.At(i, j) != test.a[idx]+add {
     t.Errorf("unexpected set value for test %d at i=%d, j=%d: got: %v, want: %v", cas, i, j, v, test.a[idx]+add)
    }
   }
  }
 }
}
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package gonum

import "gonum.org/v1/gonum/blas"

// Dpotri computes the inverse of a real symmetric positive definite matrix A
// using its Cholesky factorization.
//
// On entry, a contains the triangular factor U or L from the Cholesky
// factorization A = U*U or A = L*L, as computed by Dpotrf.
// On return, a contains the upper or lower triangle of the (symmetric)
// inverse of A, overwriting the input factor U or L.
func (impl Implementation) Dpotri(uplo blas.Uplo, n int, a []float64, lda int) (ok bool) {
 switch {
 case uplo != blas.Upper && uplo != blas.Lower:
  panic(badUplo)
 case n < 0:
  panic(nLT0)
 case lda < max(1, n):
```

```
 panic(badLdA)
 }

 // Quick return if possible.
 if n == 0 {
  return true
 }

 if len(a) < (n-1)*lda+n {
  panic(shortA)
 }

 // Invert the triangular Cholesky factor U or L.
 ok = impl.Dtrtri(uplo,
 blas.NonUnit, n, a, lda)
 if !ok {
  return false
 }

 // Form inv(U)*inv(U) or inv(L)*inv(L).
 impl.Dlauum(uplo, n, a, lda)
 return true
}
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// Package fd provides functions to approximate derivatives using finite differences.
package fd // import "gonum.org/v1/gonum/diff/fd"
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// Package functions provides objective functions for testing optimization
// algorithms.
//
// We encourage outside contributions of additional test functions that exhibit
// properties not already covered in the testing suite or that have
// significance due to prior use as benchmark cases.
package functions // import "gonum.org/v1/gonum/optimize/functions"

const (
 badInputDim = "functions: wrong input dimension"
)
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```

```
package testlapack

import (
 "math"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
)

type Dlacn2er interface {
 Dlacn2(n int, v, x []float64, isgn []int, est float64, kase int, isave *[3]int) (float64, int)
}

func Dlacn2Test(t *testing.T, impl Dlacn2er) {
 rnd := rand.New(rand.NewSource(1))
 for _, n := range []int{1, 2, 3, 4, 5, 7, 10, 15, 20, 100} {
  for cas := 0; cas < 10; cas++ {
   a := randomGeneral(n, n, n, rnd)

   // Compute the 1-norm of A explicitly.
   var norm1 float64
   for j := 0; j < n; j++ {
    var sum float64
    for i := 0; i < n; i++ {
     sum += math.Abs(a.Data[i*a.Stride+j])
    }
    if sum > norm1 {
     norm1 = sum
    }
   }

   // Compute the estimate of 1-norm using Dlanc2.
   x := make([]float64, n)
   work := make([]float64, n)
   v := make([]float64,
 n)
   isgn := make([]int, n)
   var (
    kase  int
    isave [3]int
    got   float64
   )
  loop:
   for {
    got, kase = impl.Dlacn2(n, v, x, isgn, got, kase, &isave)
```

```
    switch kase {
    default:
     panic("Dlacn2 returned invalid value of kase")
    case 0:
     break loop
    case 1:
     blas64.Gemv(blas.NoTrans, 1, a, blas64.Vector{Data: x, Inc: 1}, 0, blas64.Vector{Data: work, Inc: 1})
     copy(x, work)
    case 2:
     blas64.Gemv(blas.Trans, 1, a, blas64.Vector{Data: x, Inc: 1}, 0, blas64.Vector{Data: work, Inc: 1})
     copy(x, work)
    }
   }

   // Check that got is either accurate enough or a
   // lower estimate of the 1-norm of A.
   if math.Abs(got-norm1) > 1e-8 && got > norm1 {
    t.Errorf("Case n=%v: not lower estimate. 1-norm %v, estimate %v", n, norm1, got)
   }
  }
 }
}
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package lp_test

import (
 "fmt"
 "log"

 "gonum.org/v1/gonum/mat"
 "gonum.org/v1/gonum/optimize/convex/lp"
)

func ExampleSimplex() {
 c := []float64{-1, -2, 0, 0}
 A := mat.NewDense(2, 4, []float64{-1, 2, 1, 0, 3, 1, 0, 1})
 b := []float64{4, 9}

 opt, x, err := lp.Simplex(c, A, b, 0, nil)
 if err != nil {
  log.Fatal(err)
 }
 fmt.Printf("opt: %v\n", opt)
 fmt.Printf("x: %v\n", x)
 // Output:
```

```
 // opt: -8
 // x: [2 3 0 0]
}
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package gonum

import "gonum.org/v1/gonum/blas/blas64"

// Dlapmt rearranges the columns of the mn matrix X as specified by the
// permutation k_0, k_1, ..., k_n-1 of the integers 0, ..., n-1.
//
// If forward is true a forward permutation is performed:
//
//  X[0:m, k[j]] is moved to X[0:m, j] for j = 0, 1, ..., n-1.
//
// otherwise a backward permutation is performed:
//
//  X[0:m, j] is moved to X[0:m, k[j]] for j = 0, 1, ..., n-1.
//
// k must have length n, otherwise Dlapmt will panic. k is zero-indexed.
func (impl Implementation) Dlapmt(forward bool, m, n int, x []float64, ldx int, k []int) {
 switch {
 case m < 0:
  panic(mLT0)
 case n < 0:
  panic(nLT0)
 case ldx < max(1, n):
  panic(badLdX)
 }

 // Quick return if possible.
 if m == 0 || n == 0 {
  return
 }

 switch {
 case len(x) < (m-1)*ldx+n:
  panic(shortX)
 case
 len(k) != n:
  panic(badLenK)
 }

 // Quick return if possible.
 if n == 1 {
```

```
 return
}

for i, v := range k {
 v++
 k[i] = -v
}

bi := blas64.Implementation()

if forward {
 for j, v := range k {
  if v >= 0 {
   continue
  }
  k[j] = -v
  i := -v - 1
  for k[i] < 0 {
   bi.Dswap(m, x[j:], ldx, x[i:], ldx)

   k[i] = -k[i]
   j = i
   i = k[i] - 1
  }
 }
} else {
 for i, v := range k {
  if v >= 0 {
   continue
  }
  k[i] = -v
  j := -v - 1
  for j != i {
   bi.Dswap(m, x[j:], ldx, x[i:], ldx)

   k[j] = -k[j]
   j = k[j] - 1
  }
 }
}

for i := range k {
 k[i]--
}
}
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```

```
package gonum

import (
 "math"
)

// Beta returns the value of the complete beta function B(a, b). It is defined as
//  (a)(b) / (a+b)
// Special cases are:
//  B(a,b) returns NaN if a or b is Inf
//  B(a,b) returns NaN if a and b are 0
//  B(a,b) returns NaN if a or b is NaN
//  B(a,b) returns NaN if a or b is < 0
//  B(a,b) returns +Inf if a xor b is 0.
//
// See http://mathworld.wolfram.com/BetaFunction.html for more detailed information.
func Beta(a, b float64) float64 {
 return math.Exp(Lbeta(a, b))
}

// Lbeta returns the natural logarithm of the complete beta function B(a,b).
// Lbeta is defined as:
//  Ln((a)(b)/(a+b))
// Special cases are:
//  Lbeta(a,b) returns NaN if a or b is Inf
//  Lbeta(a,b) returns NaN if a and b are 0
//  Lbeta(a,b) returns NaN if a or b is NaN
//  Lbeta(a,b) returns NaN if a or b is < 0
//
 Lbeta(a,b) returns +Inf if a xor b is 0.
func Lbeta(a, b float64) float64 {
 switch {
 case math.IsInf(a, +1) || math.IsInf(b, +1):
  return math.NaN()
 case a == 0 && b == 0:
  return math.NaN()
 case a < 0 || b < 0:
  return math.NaN()
 case math.IsNaN(a) || math.IsNaN(b):
  return math.NaN()
 case a == 0 || b == 0:
  return math.Inf(+1)
 }

 la, _ := math.Lgamma(a)
 lb, _ := math.Lgamma(b)
 lab, _ := math.Lgamma(a + b)
```

```
 return la + lb - lab
}
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package distuv

import (
 "sort"
 "testing"

 "golang.org/x/exp/rand"
)

func TestLognormal(t *testing.T) {
 src := rand.New(rand.NewSource(1))
 for i, dist := range []LogNormal{
  {Mu: 0.1, Sigma: 0.3, Src: src},
  {Mu: 0.01, Sigma: 0.01, Src: src},
  {Mu: 2, Sigma: 0.01, Src: src},
 } {
  const (
   tol = 1e-2
   n   = 1e5
  )
  x := make([]float64, n)
  generateSamples(x, dist)
  sort.Float64s(x)

  checkMean(t, i, x, dist, tol)
  checkVarAndStd(t, i, x, dist, tol)
  checkEntropy(t, i, x, dist, tol)
  checkExKurtosis(t, i, x, dist, 2e-1)
  checkSkewness(t, i, x, dist, 5e-2)
  checkMedian(t, i, x, dist, tol)
  checkQuantileCDFSurvival(t, i, x, dist, tol)
  checkProbContinuous(t, i, x, dist, 1e-10)
  checkProbQuantContinuous(t, i, x, dist, tol)
 }
}

// See https://github.com/gonum/gonum/issues/577 for details.
func TestLognormalIssue577(t
 *testing.T) {
 x := 1.0e-16
 max := 1.0e-295
 cdf := LogNormal{Mu: 0, Sigma: 1}.CDF(x)
```

```
 if cdf <= 0 {
  t.Errorf("LogNormal{0,1}.CDF(%e) should be positive. got: %e", x, cdf)
 }
 if cdf > max {
  t.Errorf("LogNormal{0,1}.CDF(%e) is greater than %e. got: %e", x, max, cdf)
 }
}
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// Package dual provides the dual numeric type and functions. Dual numbers
// are an extension of the real numbers in the form a+b where ^2=0, but 0.
//
// See https://en.wikipedia.org/wiki/Dual_number for details of their properties
// and uses.
package dual // imports "gonum.org/v1/gonum/num/dual"

// TODO(kortschak): Handle special cases properly.
//  - Pow
// Code generated by "go generate gonum.org/v1/gonum/blas/gonum; DO NOT EDIT.

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package gonum

import (
 "gonum.org/v1/gonum/internal/asm/f32"
)

// Sdsdot computes the dot product of the two vectors plus a constant
//  alpha + \sum_i x[i]*y[i]
//
// Float32 implementations are autogenerated and not directly tested.
func (Implementation) Sdsdot(n int, alpha float32, x []float32, incX int, y []float32, incY int) float32 {
 if incX == 0 {
  panic(zeroIncX)
 }
 if incY == 0 {
  panic(zeroIncY)
 }
 if n <= 0 {
  if n == 0 {
   return 0
  }
  panic(nLT0)
```

```
 }
 if incX == 1 && incY == 1 {
  if len(x) < n {
   panic(shortX)
  }
  if len(y) < n {
   panic(shortY)
  }
  return alpha + float32(f32.DdotUnitary(x[:n], y[:n]))
 }
 var ix, iy int
 if incX < 0 {
  ix = (-n + 1) * incX
 }
 if incY < 0 {
  iy = (-n + 1) * incY
 }
 if ix >= len(x)
 || ix+(n-1)*incX >= len(x) {
  panic(shortX)
 }
 if iy >= len(y) || iy+(n-1)*incY >= len(y) {
  panic(shortY)
 }
 return alpha + float32(f32.DdotInc(x, y, uintptr(n), uintptr(incX), uintptr(incY), uintptr(ix), uintptr(iy)))
}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "fmt"
 "testing"
)

func TestAbsorbedRadioactiveDoseFormat(t *testing.T) {
 for _, test := range []struct {
  value  AbsorbedRadioactiveDose
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 Gy"},
  {1.23456789, "%.1v", "1 Gy"},
  {1.23456789, "%20.1v", "               1 Gy"},
```

```
  {1.23456789, "%20v", "       1.23456789 Gy"},
  {1.23456789, "%1v", "1.23456789 Gy"},
  {1.23456789, "%#v", "unit.AbsorbedRadioactiveDose(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.AbsorbedRadioactiveDose=1.23456789 Gy)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
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package barneshut_test

import (
 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/spatial/barneshut"
 "gonum.org/v1/gonum/spatial/r2"
)

type mass struct {
 d r2.Vec
 v r2.Vec
 m float64
}

func (m *mass) Coord2() r2.Vec { return m.d }
func (m *mass) Mass() float64  { return m.m }
func (m *mass) move(f r2.Vec) {
 m.v = m.v.Add(f.Scale(1 / m.m))
 m.d = m.d.Add(m.v)
}

func Example_galaxy() {
 rnd := rand.New(rand.NewSource(1))

 // Make 1000 stars in random locations.
 stars := make([]*mass, 1000)
 p := make([]barneshut.Particle2, len(stars))
 for i := range stars {
  s := &mass{
   d: r2.Vec{
    X: 100 * rnd.Float64(),
    Y: 100 * rnd.Float64(),
```

```
  },
  v: r2.Vec{
   X: rnd.NormFloat64(),
   Y: rnd.NormFloat64(),
  },
  m: 10 * rnd.Float64(),
 }
 stars[i] = s
 p[i] = s
}
vectors := make([]r2.Vec, len(stars))

// Make
a plane to calculate approximate forces
plane := barneshut.Plane{Particles: p}

// Run a simulation for 100 updates.
for i := 0; i < 1000; i++ {
 // Build the data structure. For small systems
 // this step may be omitted and ForceOn will
 // perform the naive quadratic calculation
 // without building the data structure.
 plane.Reset()

 // Calculate the force vectors using the theta
 // parameter...
 const theta = 0.5
 // and an imaginary gravitational constant.
 const G = 10
 for j, s := range stars {
  vectors[j] = plane.ForceOn(s, theta, barneshut.Gravity2).Scale(G)
  }

 // Update positions.
 for j, s := range stars {
  s.move(vectors[j])
  }

 // Rendering stars is left as an exercise for
 // the reader.
 }
}
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// Package testlapack implements a set of testing routines for Lapack functions.
package testlapack // import "gonum.org/v1/gonum/lapack/testlapack"
```

```
// Code generated by "go generate gonum.org/v1/gonum/unit/constant; DO NOT EDIT.

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package constant

import (
 "fmt"
 "testing"
)

func TestMagneticConstantFormat(t *testing.T) {
 for _, test := range []struct {
  format string
  want   string
 }{
  {"%v", "1.2566370621238374e-06 A^2 s^4 kg^-1 m^-3"},
  {"%.1v", "1e-06 A^2 s^4 kg^-1 m^-3"},
  {"%50.1v", "                        1e-06 A^2 s^4 kg^-1 m^-3"},
  {"%50v", "        1.2566370621238374e-06 A^2 s^4 kg^-1 m^-3"},
  {"%1v", "1.2566370621238374e-06 A^2 s^4 kg^-1 m^-3"},
  {"%#v", "constant.magneticConstantUnits(1.2566370621238374e-06)"},
  {"%s", "%!s(constant.magneticConstantUnits=1.2566370621238374e-06 A^2 s^4 kg^-1 m^-3)"},
 } {
  got := fmt.Sprintf(test.format, MagneticConstant)
  if got != test.want {
   t.Errorf("Format %q: got: %q want: %q", test.format, got, test.want)
  }
 }
}
// Code generated by "go run gonum.org/v1/gonum/blas/testblas/benchautogen/autogen_bench_level1double.go";
DO NOT EDIT.

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package gonum

import (
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
)
```

```
const (
 posInc1      = 5
 posInc2      = 3
 negInc1      = -3
 negInc2      = -4
 SMALL_SLICE  = 10
 MEDIUM_SLICE = 1000
 LARGE_SLICE  = 100000
 HUGE_SLICE   = 10000000
)

func randomSlice(l, idx int) []float64 {
 if idx < 0 {
  idx = -idx
 }
 s := make([]float64, l*idx)
 for i := range s {
  s[i] = rand.Float64()
 }
 return s
}

func benchmarkDdot(b *testing.B, n int, x []float64, incX int, y []float64, incY int) {
 b.ResetTimer()
 for i := 0; i < b.N; i++ {
  impl.Ddot(n, x, incX, y, incY)
 }
}

func BenchmarkDdotSmallBothUnitary(b *testing.B) {
 n := SMALL_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n,
 incY)

 benchmarkDdot(b, n, x, incX, y, incY)
}

func BenchmarkDdotSmallIncUni(b *testing.B) {
 n := SMALL_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)
```

```
 benchmarkDdot(b, n, x, incX, y, incY)
}

func BenchmarkDdotSmallUniInc(b *testing.B) {
 n := SMALL_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)

 benchmarkDdot(b, n, x, incX, y, incY)
}

func BenchmarkDdotSmallBothInc(b *testing.B) {
 n := SMALL_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)

 benchmarkDdot(b, n, x, incX, y, incY)
}

func BenchmarkDdotMediumBothUnitary(b *testing.B) {
 n := MEDIUM_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)

 benchmarkDdot(b, n, x, incX, y, incY)
}

func BenchmarkDdotMediumIncUni(b *testing.B) {
 n := MEDIUM_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)

 benchmarkDdot(b, n, x, incX,
 y, incY)
}

func BenchmarkDdotMediumUniInc(b *testing.B) {
 n := MEDIUM_SLICE
 incX := 1
 x := randomSlice(n, incX)
```

```
 incY := negInc1
 y := randomSlice(n, incY)

 benchmarkDdot(b, n, x, incX, y, incY)
}

func BenchmarkDdotMediumBothInc(b *testing.B) {
 n := MEDIUM_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)

 benchmarkDdot(b, n, x, incX, y, incY)
}

func BenchmarkDdotLargeBothUnitary(b *testing.B) {
 n := LARGE_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)

 benchmarkDdot(b, n, x, incX, y, incY)
}

func BenchmarkDdotLargeIncUni(b *testing.B) {
 n := LARGE_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)

 benchmarkDdot(b, n, x, incX, y, incY)
}

func BenchmarkDdotLargeUniInc(b *testing.B) {
 n := LARGE_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)

 benchmarkDdot(b, n, x, incX, y, incY)
}

func BenchmarkDdotLargeBothInc(b
```

```
 *testing.B) {
 n := LARGE_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)

 benchmarkDdot(b, n, x, incX, y, incY)
}

func BenchmarkDdotHugeBothUnitary(b *testing.B) {
 n := HUGE_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)

 benchmarkDdot(b, n, x, incX, y, incY)
}

func BenchmarkDdotHugeIncUni(b *testing.B) {
 n := HUGE_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)

 benchmarkDdot(b, n, x, incX, y, incY)
}

func BenchmarkDdotHugeUniInc(b *testing.B) {
 n := HUGE_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)

 benchmarkDdot(b, n, x, incX, y, incY)
}

func BenchmarkDdotHugeBothInc(b *testing.B) {
 n := HUGE_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)

 benchmarkDdot(b, n, x, incX, y, incY)
```

```
}

/* ------------------ */
func benchmarkDnrm2(b *testing.B, n int, x []float64, incX
 int) {
 b.ResetTimer()
 for i := 0; i < b.N; i++ {
  impl.Dnrm2(n, x, incX)
 }
}

func BenchmarkDnrm2SmallUnitaryInc(b *testing.B) {
 n := SMALL_SLICE
 incX := 1
 x := randomSlice(n, incX)

 benchmarkDnrm2(b, n, x, incX)
}

func BenchmarkDnrm2SmallPosInc(b *testing.B) {
 n := SMALL_SLICE
 incX := posInc1
 x := randomSlice(n, incX)

 benchmarkDnrm2(b, n, x, incX)
}

func BenchmarkDnrm2MediumUnitaryInc(b *testing.B) {
 n := MEDIUM_SLICE
 incX := 1
 x := randomSlice(n, incX)

 benchmarkDnrm2(b, n, x, incX)
}

func BenchmarkDnrm2MediumPosInc(b *testing.B) {
 n := MEDIUM_SLICE
 incX := posInc1
 x := randomSlice(n, incX)

 benchmarkDnrm2(b, n, x, incX)
}

func BenchmarkDnrm2LargeUnitaryInc(b *testing.B) {
 n := LARGE_SLICE
 incX := 1
 x := randomSlice(n, incX)
```

```
 benchmarkDnrm2(b, n, x, incX)
}

func BenchmarkDnrm2LargePosInc(b *testing.B) {
 n := LARGE_SLICE
 incX := posInc1
 x := randomSlice(n, incX)

 benchmarkDnrm2(b, n, x, incX)
}

func BenchmarkDnrm2HugeUnitaryInc(b *testing.B) {
 n
 := HUGE_SLICE
 incX := 1
 x := randomSlice(n, incX)

 benchmarkDnrm2(b, n, x, incX)
}

func BenchmarkDnrm2HugePosInc(b *testing.B) {
 n := HUGE_SLICE
 incX := posInc1
 x := randomSlice(n, incX)

 benchmarkDnrm2(b, n, x, incX)
}

/* ------------------ */
func benchmarkDasum(b *testing.B, n int, x []float64, incX int) {
 b.ResetTimer()
 for i := 0; i < b.N; i++ {
  impl.Dasum(n, x, incX)
 }
}

func BenchmarkDasumSmallUnitaryInc(b *testing.B) {
 n := SMALL_SLICE
 incX := 1
 x := randomSlice(n, incX)

 benchmarkDasum(b, n, x, incX)
}

func BenchmarkDasumSmallPosInc(b *testing.B) {
 n := SMALL_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
```

```
 benchmarkDasum(b, n, x, incX)
}

func BenchmarkDasumMediumUnitaryInc(b *testing.B) {
 n := MEDIUM_SLICE
 incX := 1
 x := randomSlice(n, incX)

 benchmarkDasum(b, n, x, incX)
}

func BenchmarkDasumMediumPosInc(b *testing.B) {
 n := MEDIUM_SLICE
 incX := posInc1
 x := randomSlice(n, incX)

 benchmarkDasum(b, n, x, incX)
}

func BenchmarkDasumLargeUnitaryInc(b
 *testing.B) {
 n := LARGE_SLICE
 incX := 1
 x := randomSlice(n, incX)

 benchmarkDasum(b, n, x, incX)
}

func BenchmarkDasumLargePosInc(b *testing.B) {
 n := LARGE_SLICE
 incX := posInc1
 x := randomSlice(n, incX)

 benchmarkDasum(b, n, x, incX)
}

func BenchmarkDasumHugeUnitaryInc(b *testing.B) {
 n := HUGE_SLICE
 incX := 1
 x := randomSlice(n, incX)

 benchmarkDasum(b, n, x, incX)
}

func BenchmarkDasumHugePosInc(b *testing.B) {
 n := HUGE_SLICE
 incX := posInc1
```

```
 x := randomSlice(n, incX)

 benchmarkDasum(b, n, x, incX)
}

/* ------------------ */
func benchmarkIdamax(b *testing.B, n int, x []float64, incX int) {
 b.ResetTimer()
 for i := 0; i < b.N; i++ {
  impl.Idamax(n, x, incX)
 }
}

func BenchmarkIdamaxSmallUnitaryInc(b *testing.B) {
 n := SMALL_SLICE
 incX := 1
 x := randomSlice(n, incX)

 benchmarkIdamax(b, n, x, incX)
}

func BenchmarkIdamaxSmallPosInc(b *testing.B) {
 n := SMALL_SLICE
 incX := posInc1
 x := randomSlice(n, incX)

 benchmarkIdamax(b, n, x, incX)
}

func
 BenchmarkIdamaxMediumUnitaryInc(b *testing.B) {
 n := MEDIUM_SLICE
 incX := 1
 x := randomSlice(n, incX)

 benchmarkIdamax(b, n, x, incX)
}

func BenchmarkIdamaxMediumPosInc(b *testing.B) {
 n := MEDIUM_SLICE
 incX := posInc1
 x := randomSlice(n, incX)

 benchmarkIdamax(b, n, x, incX)
}

func BenchmarkIdamaxLargeUnitaryInc(b *testing.B) {
 n := LARGE_SLICE
```

```
 incX := 1
 x := randomSlice(n, incX)

 benchmarkIdamax(b, n, x, incX)
}

func BenchmarkIdamaxLargePosInc(b *testing.B) {
 n := LARGE_SLICE
 incX := posInc1
 x := randomSlice(n, incX)

 benchmarkIdamax(b, n, x, incX)
}

func BenchmarkIdamaxHugeUnitaryInc(b *testing.B) {
 n := HUGE_SLICE
 incX := 1
 x := randomSlice(n, incX)

 benchmarkIdamax(b, n, x, incX)
}

func BenchmarkIdamaxHugePosInc(b *testing.B) {
 n := HUGE_SLICE
 incX := posInc1
 x := randomSlice(n, incX)

 benchmarkIdamax(b, n, x, incX)
}

/* ------------------ */
func benchmarkDswap(b *testing.B, n int, x []float64, incX int, y []float64, incY int) {
 b.ResetTimer()
 for
 i := 0; i < b.N; i++ {
  impl.Dswap(n, x, incX, y, incY)
 }
}

func BenchmarkDswapSmallBothUnitary(b *testing.B) {
 n := SMALL_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)

 benchmarkDswap(b, n, x, incX, y, incY)
}
```

```
func BenchmarkDswapSmallIncUni(b *testing.B) {
 n := SMALL_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)

 benchmarkDswap(b, n, x, incX, y, incY)
}

func BenchmarkDswapSmallUniInc(b *testing.B) {
 n := SMALL_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)

 benchmarkDswap(b, n, x, incX, y, incY)
}

func BenchmarkDswapSmallBothInc(b *testing.B) {
 n := SMALL_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)

 benchmarkDswap(b, n, x, incX, y, incY)
}

func BenchmarkDswapMediumBothUnitary(b *testing.B) {
 n := MEDIUM_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)

 benchmarkDswap(b,
 n, x, incX, y, incY)
}

func BenchmarkDswapMediumIncUni(b *testing.B) {
 n := MEDIUM_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)
```

```
 benchmarkDswap(b, n, x, incX, y, incY)
}

func BenchmarkDswapMediumUniInc(b *testing.B) {
 n := MEDIUM_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)

 benchmarkDswap(b, n, x, incX, y, incY)
}

func BenchmarkDswapMediumBothInc(b *testing.B) {
 n := MEDIUM_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)

 benchmarkDswap(b, n, x, incX, y, incY)
}

func BenchmarkDswapLargeBothUnitary(b *testing.B) {
 n := LARGE_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)

 benchmarkDswap(b, n, x, incX, y, incY)
}

func BenchmarkDswapLargeIncUni(b *testing.B) {
 n := LARGE_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)

 benchmarkDswap(b, n, x, incX, y, incY)
}

func BenchmarkDswapLargeUniInc(b
 *testing.B) {
 n := LARGE_SLICE
 incX := 1
```

```
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)

 benchmarkDswap(b, n, x, incX, y, incY)
}

func BenchmarkDswapLargeBothInc(b *testing.B) {
 n := LARGE_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)

 benchmarkDswap(b, n, x, incX, y, incY)
}

func BenchmarkDswapHugeBothUnitary(b *testing.B) {
 n := HUGE_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)

 benchmarkDswap(b, n, x, incX, y, incY)
}

func BenchmarkDswapHugeIncUni(b *testing.B) {
 n := HUGE_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)

 benchmarkDswap(b, n, x, incX, y, incY)
}

func BenchmarkDswapHugeUniInc(b *testing.B) {
 n := HUGE_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)

 benchmarkDswap(b, n, x, incX, y, incY)
}

func BenchmarkDswapHugeBothInc(b *testing.B) {
```

```
 n :=
 HUGE_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)

 benchmarkDswap(b, n, x, incX, y, incY)
}

/* ------------------ */
func benchmarkDcopy(b *testing.B, n int, x []float64, incX int, y []float64, incY int) {
 b.ResetTimer()
 for i := 0; i < b.N; i++ {
  impl.Dcopy(n, x, incX, y, incY)
 }
}

func BenchmarkDcopySmallBothUnitary(b *testing.B) {
 n := SMALL_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)

 benchmarkDcopy(b, n, x, incX, y, incY)
}

func BenchmarkDcopySmallIncUni(b *testing.B) {
 n := SMALL_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)

 benchmarkDcopy(b, n, x, incX, y, incY)
}

func BenchmarkDcopySmallUniInc(b *testing.B) {
 n := SMALL_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)

 benchmarkDcopy(b, n, x, incX, y, incY)
}
```

```
func BenchmarkDcopySmallBothInc(b *testing.B) {
 n := SMALL_SLICE
 incX := posInc1
 x
 := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)

 benchmarkDcopy(b, n, x, incX, y, incY)
}

func BenchmarkDcopyMediumBothUnitary(b *testing.B) {
 n := MEDIUM_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)

 benchmarkDcopy(b, n, x, incX, y, incY)
}

func BenchmarkDcopyMediumIncUni(b *testing.B) {
 n := MEDIUM_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)

 benchmarkDcopy(b, n, x, incX, y, incY)
}

func BenchmarkDcopyMediumUniInc(b *testing.B) {
 n := MEDIUM_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)

 benchmarkDcopy(b, n, x, incX, y, incY)
}

func BenchmarkDcopyMediumBothInc(b *testing.B) {
 n := MEDIUM_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)
```

```
 benchmarkDcopy(b, n, x, incX, y, incY)
}

func BenchmarkDcopyLargeBothUnitary(b *testing.B) {
 n := LARGE_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY
 := 1
 y := randomSlice(n, incY)

 benchmarkDcopy(b, n, x, incX, y, incY)
}

func BenchmarkDcopyLargeIncUni(b *testing.B) {
 n := LARGE_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)

 benchmarkDcopy(b, n, x, incX, y, incY)
}

func BenchmarkDcopyLargeUniInc(b *testing.B) {
 n := LARGE_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)

 benchmarkDcopy(b, n, x, incX, y, incY)
}

func BenchmarkDcopyLargeBothInc(b *testing.B) {
 n := LARGE_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)

 benchmarkDcopy(b, n, x, incX, y, incY)
}

func BenchmarkDcopyHugeBothUnitary(b *testing.B) {
 n := HUGE_SLICE
 incX := 1
 x := randomSlice(n, incX)
```

```
 incY := 1
 y := randomSlice(n, incY)

 benchmarkDcopy(b, n, x, incX, y, incY)
}

func BenchmarkDcopyHugeIncUni(b *testing.B) {
 n := HUGE_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)

 benchmarkDcopy(b,
 n, x, incX, y, incY)
}

func BenchmarkDcopyHugeUniInc(b *testing.B) {
 n := HUGE_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)

 benchmarkDcopy(b, n, x, incX, y, incY)
}

func BenchmarkDcopyHugeBothInc(b *testing.B) {
 n := HUGE_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)

 benchmarkDcopy(b, n, x, incX, y, incY)
}

/* ------------------ */
func benchmarkDaxpy(b *testing.B, n int, alpha float64, x []float64, incX int, y []float64, incY int) {
 b.ResetTimer()
 for i := 0; i < b.N; i++ {
  impl.Daxpy(n, alpha, x, incX, y, incY)
 }
}

func BenchmarkDaxpySmallBothUnitary(b *testing.B) {
 n := SMALL_SLICE
 incX := 1
```

```
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)
 alpha := 2.4
 benchmarkDaxpy(b, n, alpha, x, incX, y, incY)
}

func BenchmarkDaxpySmallIncUni(b *testing.B) {
 n := SMALL_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)
 alpha
 := 2.4
 benchmarkDaxpy(b, n, alpha, x, incX, y, incY)
}

func BenchmarkDaxpySmallUniInc(b *testing.B) {
 n := SMALL_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)
 alpha := 2.4
 benchmarkDaxpy(b, n, alpha, x, incX, y, incY)
}

func BenchmarkDaxpySmallBothInc(b *testing.B) {
 n := SMALL_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)
 alpha := 2.4
 benchmarkDaxpy(b, n, alpha, x, incX, y, incY)
}

func BenchmarkDaxpyMediumBothUnitary(b *testing.B) {
 n := MEDIUM_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)
 alpha := 2.4
 benchmarkDaxpy(b, n, alpha, x, incX, y, incY)
}
```

```
func BenchmarkDaxpyMediumIncUni(b *testing.B) {
 n := MEDIUM_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)
 alpha := 2.4
 benchmarkDaxpy(b, n, alpha, x, incX, y, incY)
}

func BenchmarkDaxpyMediumUniInc(b *testing.B) {
 n := MEDIUM_SLICE
 incX := 1
 x :=
 randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)
 alpha := 2.4
 benchmarkDaxpy(b, n, alpha, x, incX, y, incY)
}

func BenchmarkDaxpyMediumBothInc(b *testing.B) {
 n := MEDIUM_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)
 alpha := 2.4
 benchmarkDaxpy(b, n, alpha, x, incX, y, incY)
}

func BenchmarkDaxpyLargeBothUnitary(b *testing.B) {
 n := LARGE_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)
 alpha := 2.4
 benchmarkDaxpy(b, n, alpha, x, incX, y, incY)
}

func BenchmarkDaxpyLargeIncUni(b *testing.B) {
 n := LARGE_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)
 alpha := 2.4
```

```
 benchmarkDaxpy(b, n, alpha, x, incX, y, incY)
}

func BenchmarkDaxpyLargeUniInc(b *testing.B) {
 n := LARGE_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)
 alpha := 2.4
 benchmarkDaxpy(b, n, alpha, x, incX, y, incY)
}

func BenchmarkDaxpyLargeBothInc(b
 *testing.B) {
 n := LARGE_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)
 alpha := 2.4
 benchmarkDaxpy(b, n, alpha, x, incX, y, incY)
}

func BenchmarkDaxpyHugeBothUnitary(b *testing.B) {
 n := HUGE_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)
 alpha := 2.4
 benchmarkDaxpy(b, n, alpha, x, incX, y, incY)
}

func BenchmarkDaxpyHugeIncUni(b *testing.B) {
 n := HUGE_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)
 alpha := 2.4
 benchmarkDaxpy(b, n, alpha, x, incX, y, incY)
}

func BenchmarkDaxpyHugeUniInc(b *testing.B) {
 n := HUGE_SLICE
 incX := 1
 x := randomSlice(n, incX)
```

```
 incY := negInc1
 y := randomSlice(n, incY)
 alpha := 2.4
 benchmarkDaxpy(b, n, alpha, x, incX, y, incY)
}

func BenchmarkDaxpyHugeBothInc(b *testing.B) {
 n := HUGE_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)
 alpha := 2.4
 benchmarkDaxpy(b,
 n, alpha, x, incX, y, incY)
}

/* ------------------ */
func benchmarkDrot(b *testing.B, n int, x []float64, incX int, y []float64, incY int, c, s float64) {
 b.ResetTimer()
 for i := 0; i < b.N; i++ {
  impl.Drot(n, x, incX, y, incY, c, s)
 }
}

func BenchmarkDrotSmallBothUnitary(b *testing.B) {
 n := SMALL_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)
 c := 0.89725836967
 s := 0.44150585279
 benchmarkDrot(b, n, x, incX, y, incY, c, s)
}

func BenchmarkDrotSmallIncUni(b *testing.B) {
 n := SMALL_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)
 c := 0.89725836967
 s := 0.44150585279
 benchmarkDrot(b, n, x, incX, y, incY, c, s)
}

func BenchmarkDrotSmallUniInc(b *testing.B) {
```

```
 n := SMALL_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)
 c := 0.89725836967
 s := 0.44150585279
 benchmarkDrot(b, n, x, incX, y, incY, c, s)
}

func BenchmarkDrotSmallBothInc(b *testing.B)
 {
 n := SMALL_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)
 c := 0.89725836967
 s := 0.44150585279
 benchmarkDrot(b, n, x, incX, y, incY, c, s)
}

func BenchmarkDrotMediumBothUnitary(b *testing.B) {
 n := MEDIUM_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)
 c := 0.89725836967
 s := 0.44150585279
 benchmarkDrot(b, n, x, incX, y, incY, c, s)
}

func BenchmarkDrotMediumIncUni(b *testing.B) {
 n := MEDIUM_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)
 c := 0.89725836967
 s := 0.44150585279
 benchmarkDrot(b, n, x, incX, y, incY, c, s)
}

func BenchmarkDrotMediumUniInc(b *testing.B) {
 n := MEDIUM_SLICE
 incX := 1
 x := randomSlice(n, incX)
```

```
 incY := negInc1
 y := randomSlice(n, incY)
 c := 0.89725836967
 s := 0.44150585279
 benchmarkDrot(b, n, x, incX, y, incY, c, s)
}

func BenchmarkDrotMediumBothInc(b *testing.B) {
 n := MEDIUM_SLICE
 incX := posInc1
 x := randomSlice(n,
 incX)
 incY := negInc1
 y := randomSlice(n, incY)
 c := 0.89725836967
 s := 0.44150585279
 benchmarkDrot(b, n, x, incX, y, incY, c, s)
}

func BenchmarkDrotLargeBothUnitary(b *testing.B) {
 n := LARGE_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)
 c := 0.89725836967
 s := 0.44150585279
 benchmarkDrot(b, n, x, incX, y, incY, c, s)
}

func BenchmarkDrotLargeIncUni(b *testing.B) {
 n := LARGE_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)
 c := 0.89725836967
 s := 0.44150585279
 benchmarkDrot(b, n, x, incX, y, incY, c, s)
}

func BenchmarkDrotLargeUniInc(b *testing.B) {
 n := LARGE_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)
 c := 0.89725836967
```

```
 s := 0.44150585279
 benchmarkDrot(b, n, x, incX, y, incY, c, s)
}

func BenchmarkDrotLargeBothInc(b *testing.B) {
 n := LARGE_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)
 c
 := 0.89725836967
 s := 0.44150585279
 benchmarkDrot(b, n, x, incX, y, incY, c, s)
}

func BenchmarkDrotHugeBothUnitary(b *testing.B) {
 n := HUGE_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)
 c := 0.89725836967
 s := 0.44150585279
 benchmarkDrot(b, n, x, incX, y, incY, c, s)
}

func BenchmarkDrotHugeIncUni(b *testing.B) {
 n := HUGE_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)
 c := 0.89725836967
 s := 0.44150585279
 benchmarkDrot(b, n, x, incX, y, incY, c, s)
}

func BenchmarkDrotHugeUniInc(b *testing.B) {
 n := HUGE_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)
 c := 0.89725836967
 s := 0.44150585279
 benchmarkDrot(b, n, x, incX, y, incY, c, s)
}
```

```
func BenchmarkDrotHugeBothInc(b *testing.B) {
 n := HUGE_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)
 c := 0.89725836967
 s := 0.44150585279
 benchmarkDrot(b, n,
 x, incX, y, incY, c, s)
}

/* ------------------ */
func benchmarkDrotmOffDia(b *testing.B, n int, x []float64, incX int, y []float64, incY int, p blas.DrotmParams) {
 b.ResetTimer()
 for i := 0; i < b.N; i++ {
  impl.Drotm(n, x, incX, y, incY, p)
 }
}

func BenchmarkDrotmOffDiaSmallBothUnitary(b *testing.B) {
 n := SMALL_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)
 p := blas.DrotmParams{Flag: blas.OffDiagonal, H: [4]float64{0, -0.625, 0.9375, 0}}
 benchmarkDrotmOffDia(b, n, x, incX, y, incY, p)
}

func BenchmarkDrotmOffDiaSmallIncUni(b *testing.B) {
 n := SMALL_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)
 p := blas.DrotmParams{Flag: blas.OffDiagonal, H: [4]float64{0, -0.625, 0.9375, 0}}
 benchmarkDrotmOffDia(b, n, x, incX, y, incY, p)
}

func BenchmarkDrotmOffDiaSmallUniInc(b *testing.B) {
 n := SMALL_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)
 p := blas.DrotmParams{Flag:
```

```
 blas.OffDiagonal, H: [4]float64{0, -0.625, 0.9375, 0}}
 benchmarkDrotmOffDia(b, n, x, incX, y, incY, p)
}

func BenchmarkDrotmOffDiaSmallBothInc(b *testing.B) {
 n := SMALL_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)
 p := blas.DrotmParams{Flag: blas.OffDiagonal, H: [4]float64{0, -0.625, 0.9375, 0}}
 benchmarkDrotmOffDia(b, n, x, incX, y, incY, p)
}

func BenchmarkDrotmOffDiaMediumBothUnitary(b *testing.B) {
 n := MEDIUM_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)
 p := blas.DrotmParams{Flag: blas.OffDiagonal, H: [4]float64{0, -0.625, 0.9375, 0}}
 benchmarkDrotmOffDia(b, n, x, incX, y, incY, p)
}

func BenchmarkDrotmOffDiaMediumIncUni(b *testing.B) {
 n := MEDIUM_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)
 p := blas.DrotmParams{Flag: blas.OffDiagonal, H: [4]float64{0, -0.625, 0.9375, 0}}
 benchmarkDrotmOffDia(b, n, x, incX, y, incY, p)
}

func
 BenchmarkDrotmOffDiaMediumUniInc(b *testing.B) {
 n := MEDIUM_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)
 p := blas.DrotmParams{Flag: blas.OffDiagonal, H: [4]float64{0, -0.625, 0.9375, 0}}
 benchmarkDrotmOffDia(b, n, x, incX, y, incY, p)
}

func BenchmarkDrotmOffDiaMediumBothInc(b *testing.B) {
 n := MEDIUM_SLICE
 incX := posInc1
```

```
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)
 p := blas.DrotmParams{Flag: blas.OffDiagonal, H: [4]float64{0, -0.625, 0.9375, 0}}
 benchmarkDrotmOffDia(b, n, x, incX, y, incY, p)
}

func BenchmarkDrotmOffDiaLargeBothUnitary(b *testing.B) {
 n := LARGE_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)
 p := blas.DrotmParams{Flag: blas.OffDiagonal, H: [4]float64{0, -0.625, 0.9375, 0}}
 benchmarkDrotmOffDia(b, n, x, incX, y, incY, p)
}

func BenchmarkDrotmOffDiaLargeIncUni(b *testing.B) {
 n := LARGE_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := 1
 y
 := randomSlice(n, incY)
 p := blas.DrotmParams{Flag: blas.OffDiagonal, H: [4]float64{0, -0.625, 0.9375, 0}}
 benchmarkDrotmOffDia(b, n, x, incX, y, incY, p)
}

func BenchmarkDrotmOffDiaLargeUniInc(b *testing.B) {
 n := LARGE_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)
 p := blas.DrotmParams{Flag: blas.OffDiagonal, H: [4]float64{0, -0.625, 0.9375, 0}}
 benchmarkDrotmOffDia(b, n, x, incX, y, incY, p)
}

func BenchmarkDrotmOffDiaLargeBothInc(b *testing.B) {
 n := LARGE_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)
 p := blas.DrotmParams{Flag: blas.OffDiagonal, H: [4]float64{0, -0.625, 0.9375, 0}}
 benchmarkDrotmOffDia(b, n, x, incX, y, incY, p)
}
```

```
func BenchmarkDrotmOffDiaHugeBothUnitary(b *testing.B) {
 n := HUGE_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)
 p := blas.DrotmParams{Flag: blas.OffDiagonal, H: [4]float64{0, -0.625, 0.9375, 0}}
 benchmarkDrotmOffDia(b,
 n, x, incX, y, incY, p)
}

func BenchmarkDrotmOffDiaHugeIncUni(b *testing.B) {
 n := HUGE_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)
 p := blas.DrotmParams{Flag: blas.OffDiagonal, H: [4]float64{0, -0.625, 0.9375, 0}}
 benchmarkDrotmOffDia(b, n, x, incX, y, incY, p)
}

func BenchmarkDrotmOffDiaHugeUniInc(b *testing.B) {
 n := HUGE_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)
 p := blas.DrotmParams{Flag: blas.OffDiagonal, H: [4]float64{0, -0.625, 0.9375, 0}}
 benchmarkDrotmOffDia(b, n, x, incX, y, incY, p)
}

func BenchmarkDrotmOffDiaHugeBothInc(b *testing.B) {
 n := HUGE_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)
 p := blas.DrotmParams{Flag: blas.OffDiagonal, H: [4]float64{0, -0.625, 0.9375, 0}}
 benchmarkDrotmOffDia(b, n, x, incX, y, incY, p)
}

/* ------------------ */
func benchmarkDrotmDia(b *testing.B, n int, x []float64, incX int, y []float64,
 incY int, p blas.DrotmParams) {
 b.ResetTimer()
 for i := 0; i < b.N; i++ {
  impl.Drotm(n, x, incX, y, incY, p)
 }
```

```
}

func BenchmarkDrotmDiaSmallBothUnitary(b *testing.B) {
 n := SMALL_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)
 p := blas.DrotmParams{Flag: blas.OffDiagonal, H: [4]float64{5.0 / 12, 0, 0, 0.625}}
 benchmarkDrotmDia(b, n, x, incX, y, incY, p)
}

func BenchmarkDrotmDiaSmallIncUni(b *testing.B) {
 n := SMALL_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)
 p := blas.DrotmParams{Flag: blas.OffDiagonal, H: [4]float64{5.0 / 12, 0, 0, 0.625}}
 benchmarkDrotmDia(b, n, x, incX, y, incY, p)
}

func BenchmarkDrotmDiaSmallUniInc(b *testing.B) {
 n := SMALL_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)
 p := blas.DrotmParams{Flag: blas.OffDiagonal, H: [4]float64{5.0 / 12, 0, 0, 0.625}}
 benchmarkDrotmDia(b, n, x, incX, y, incY, p)
}

func BenchmarkDrotmDiaSmallBothInc(b
 *testing.B) {
 n := SMALL_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)
 p := blas.DrotmParams{Flag: blas.OffDiagonal, H: [4]float64{5.0 / 12, 0, 0, 0.625}}
 benchmarkDrotmDia(b, n, x, incX, y, incY, p)
}

func BenchmarkDrotmDiaMediumBothUnitary(b *testing.B) {
 n := MEDIUM_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := 1
```

```
 y := randomSlice(n, incY)
 p := blas.DrotmParams{Flag: blas.OffDiagonal, H: [4]float64{5.0 / 12, 0, 0, 0.625}}
 benchmarkDrotmDia(b, n, x, incX, y, incY, p)
}

func BenchmarkDrotmDiaMediumIncUni(b *testing.B) {
 n := MEDIUM_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)
 p := blas.DrotmParams{Flag: blas.OffDiagonal, H: [4]float64{5.0 / 12, 0, 0, 0.625}}
 benchmarkDrotmDia(b, n, x, incX, y, incY, p)
}

func BenchmarkDrotmDiaMediumUniInc(b *testing.B) {
 n := MEDIUM_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)
 p := blas.DrotmParams{Flag:
 blas.OffDiagonal, H: [4]float64{5.0 / 12, 0, 0, 0.625}}
 benchmarkDrotmDia(b, n, x, incX, y, incY, p)
}

func BenchmarkDrotmDiaMediumBothInc(b *testing.B) {
 n := MEDIUM_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)
 p := blas.DrotmParams{Flag: blas.OffDiagonal, H: [4]float64{5.0 / 12, 0, 0, 0.625}}
 benchmarkDrotmDia(b, n, x, incX, y, incY, p)
}

func BenchmarkDrotmDiaLargeBothUnitary(b *testing.B) {
 n := LARGE_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)
 p := blas.DrotmParams{Flag: blas.OffDiagonal, H: [4]float64{5.0 / 12, 0, 0, 0.625}}
 benchmarkDrotmDia(b, n, x, incX, y, incY, p)
}

func BenchmarkDrotmDiaLargeIncUni(b *testing.B) {
 n := LARGE_SLICE
```

```
 incX := posInc1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)
 p := blas.DrotmParams{Flag: blas.OffDiagonal, H: [4]float64{5.0 / 12, 0, 0, 0.625}}
 benchmarkDrotmDia(b, n, x, incX, y, incY, p)
}

func BenchmarkDrotmDiaLargeUniInc(b
 *testing.B) {
 n := LARGE_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)
 p := blas.DrotmParams{Flag: blas.OffDiagonal, H: [4]float64{5.0 / 12, 0, 0, 0.625}}
 benchmarkDrotmDia(b, n, x, incX, y, incY, p)
}

func BenchmarkDrotmDiaLargeBothInc(b *testing.B) {
 n := LARGE_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)
 p := blas.DrotmParams{Flag: blas.OffDiagonal, H: [4]float64{5.0 / 12, 0, 0, 0.625}}
 benchmarkDrotmDia(b, n, x, incX, y, incY, p)
}

func BenchmarkDrotmDiaHugeBothUnitary(b *testing.B) {
 n := HUGE_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)
 p := blas.DrotmParams{Flag: blas.OffDiagonal, H: [4]float64{5.0 / 12, 0, 0, 0.625}}
 benchmarkDrotmDia(b, n, x, incX, y, incY, p)
}

func BenchmarkDrotmDiaHugeIncUni(b *testing.B) {
 n := HUGE_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)
 p := blas.DrotmParams{Flag:
 blas.OffDiagonal, H: [4]float64{5.0 / 12, 0, 0, 0.625}}
 benchmarkDrotmDia(b, n, x, incX, y, incY, p)
```

```
}

func BenchmarkDrotmDiaHugeUniInc(b *testing.B) {
 n := HUGE_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)
 p := blas.DrotmParams{Flag: blas.OffDiagonal, H: [4]float64{5.0 / 12, 0, 0, 0.625}}
 benchmarkDrotmDia(b, n, x, incX, y, incY, p)
}

func BenchmarkDrotmDiaHugeBothInc(b *testing.B) {
 n := HUGE_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)
 p := blas.DrotmParams{Flag: blas.OffDiagonal, H: [4]float64{5.0 / 12, 0, 0, 0.625}}
 benchmarkDrotmDia(b, n, x, incX, y, incY, p)
}

/* ------------------ */
func benchmarkDrotmResc(b *testing.B, n int, x []float64, incX int, y []float64, incY int, p blas.DrotmParams) {
 b.ResetTimer()
 for i := 0; i < b.N; i++ {
  impl.Drotm(n, x, incX, y, incY, p)
 }
}

func BenchmarkDrotmRescSmallBothUnitary(b *testing.B) {
 n := SMALL_SLICE
 incX :=
 1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)
 p := blas.DrotmParams{Flag: blas.OffDiagonal, H: [4]float64{4096, -3584, 1792, 4096}}
 benchmarkDrotmResc(b, n, x, incX, y, incY, p)
}

func BenchmarkDrotmRescSmallIncUni(b *testing.B) {
 n := SMALL_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)
 p := blas.DrotmParams{Flag: blas.OffDiagonal, H: [4]float64{4096, -3584, 1792, 4096}}
```

```
 benchmarkDrotmResc(b, n, x, incX, y, incY, p)
}

func BenchmarkDrotmRescSmallUniInc(b *testing.B) {
 n := SMALL_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)
 p := blas.DrotmParams{Flag: blas.OffDiagonal, H: [4]float64{4096, -3584, 1792, 4096}}
 benchmarkDrotmResc(b, n, x, incX, y, incY, p)
}

func BenchmarkDrotmRescSmallBothInc(b *testing.B) {
 n := SMALL_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)
 p := blas.DrotmParams{Flag: blas.OffDiagonal, H: [4]float64{4096,
 -3584, 1792, 4096}}
 benchmarkDrotmResc(b, n, x, incX, y, incY, p)
}

func BenchmarkDrotmRescMediumBothUnitary(b *testing.B) {
 n := MEDIUM_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)
 p := blas.DrotmParams{Flag: blas.OffDiagonal, H: [4]float64{4096, -3584, 1792, 4096}}
 benchmarkDrotmResc(b, n, x, incX, y, incY, p)
}

func BenchmarkDrotmRescMediumIncUni(b *testing.B) {
 n := MEDIUM_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)
 p := blas.DrotmParams{Flag: blas.OffDiagonal, H: [4]float64{4096, -3584, 1792, 4096}}
 benchmarkDrotmResc(b, n, x, incX, y, incY, p)
}

func BenchmarkDrotmRescMediumUniInc(b *testing.B) {
 n := MEDIUM_SLICE
 incX := 1
 x := randomSlice(n, incX)
```

```
 incY := negInc1
 y := randomSlice(n, incY)
 p := blas.DrotmParams{Flag: blas.OffDiagonal, H: [4]float64{4096, -3584, 1792, 4096}}
 benchmarkDrotmResc(b, n, x, incX, y, incY, p)
}

func BenchmarkDrotmRescMediumBothInc(b *testing.B) {
 n
 := MEDIUM_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)
 p := blas.DrotmParams{Flag: blas.OffDiagonal, H: [4]float64{4096, -3584, 1792, 4096}}
 benchmarkDrotmResc(b, n, x, incX, y, incY, p)
}

func BenchmarkDrotmRescLargeBothUnitary(b *testing.B) {
 n := LARGE_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)
 p := blas.DrotmParams{Flag: blas.OffDiagonal, H: [4]float64{4096, -3584, 1792, 4096}}
 benchmarkDrotmResc(b, n, x, incX, y, incY, p)
}

func BenchmarkDrotmRescLargeIncUni(b *testing.B) {
 n := LARGE_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)
 p := blas.DrotmParams{Flag: blas.OffDiagonal, H: [4]float64{4096, -3584, 1792, 4096}}
 benchmarkDrotmResc(b, n, x, incX, y, incY, p)
}

func BenchmarkDrotmRescLargeUniInc(b *testing.B) {
 n := LARGE_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)
 p := blas.DrotmParams{Flag: blas.OffDiagonal,
 H: [4]float64{4096, -3584, 1792, 4096}}
 benchmarkDrotmResc(b, n, x, incX, y, incY, p)
}
```

```
func BenchmarkDrotmRescLargeBothInc(b *testing.B) {
 n := LARGE_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)
 p := blas.DrotmParams{Flag: blas.OffDiagonal, H: [4]float64{4096, -3584, 1792, 4096}}
 benchmarkDrotmResc(b, n, x, incX, y, incY, p)
}

func BenchmarkDrotmRescHugeBothUnitary(b *testing.B) {
 n := HUGE_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)
 p := blas.DrotmParams{Flag: blas.OffDiagonal, H: [4]float64{4096, -3584, 1792, 4096}}
 benchmarkDrotmResc(b, n, x, incX, y, incY, p)
}

func BenchmarkDrotmRescHugeIncUni(b *testing.B) {
 n := HUGE_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := 1
 y := randomSlice(n, incY)
 p := blas.DrotmParams{Flag: blas.OffDiagonal, H: [4]float64{4096, -3584, 1792, 4096}}
 benchmarkDrotmResc(b, n, x, incX, y, incY, p)
}

func BenchmarkDrotmRescHugeUniInc(b
 *testing.B) {
 n := HUGE_SLICE
 incX := 1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)
 p := blas.DrotmParams{Flag: blas.OffDiagonal, H: [4]float64{4096, -3584, 1792, 4096}}
 benchmarkDrotmResc(b, n, x, incX, y, incY, p)
}

func BenchmarkDrotmRescHugeBothInc(b *testing.B) {
 n := HUGE_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 incY := negInc1
 y := randomSlice(n, incY)
 p := blas.DrotmParams{Flag: blas.OffDiagonal, H: [4]float64{4096, -3584, 1792, 4096}}
```

```
 benchmarkDrotmResc(b, n, x, incX, y, incY, p)
}

/* ------------------ */
func benchmarkDscal(b *testing.B, n int, alpha float64, x []float64, incX int) {
 b.ResetTimer()
 for i := 0; i < b.N; i++ {
  impl.Dscal(n, alpha, x, incX)
 }
}

func BenchmarkDscalSmallUnitaryInc(b *testing.B) {
 n := SMALL_SLICE
 incX := 1
 x := randomSlice(n, incX)
 alpha := 2.4
 benchmarkDscal(b, n, alpha, x, incX)
}

func BenchmarkDscalSmallPosInc(b *testing.B) {
 n := SMALL_SLICE
 incX := posInc1
 x := randomSlice(n,
 incX)
 alpha := 2.4
 benchmarkDscal(b, n, alpha, x, incX)
}

func BenchmarkDscalMediumUnitaryInc(b *testing.B) {
 n := MEDIUM_SLICE
 incX := 1
 x := randomSlice(n, incX)
 alpha := 2.4
 benchmarkDscal(b, n, alpha, x, incX)
}

func BenchmarkDscalMediumPosInc(b *testing.B) {
 n := MEDIUM_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 alpha := 2.4
 benchmarkDscal(b, n, alpha, x, incX)
}

func BenchmarkDscalLargeUnitaryInc(b *testing.B) {
 n := LARGE_SLICE
 incX := 1
 x := randomSlice(n, incX)
```

```
 alpha := 2.4
 benchmarkDscal(b, n, alpha, x, incX)
}

func BenchmarkDscalLargePosInc(b *testing.B) {
 n := LARGE_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 alpha := 2.4
 benchmarkDscal(b, n, alpha, x, incX)
}

func BenchmarkDscalHugeUnitaryInc(b *testing.B) {
 n := HUGE_SLICE
 incX := 1
 x := randomSlice(n, incX)
 alpha := 2.4
 benchmarkDscal(b, n, alpha, x, incX)
}

func BenchmarkDscalHugePosInc(b *testing.B) {
 n := HUGE_SLICE
 incX := posInc1
 x := randomSlice(n, incX)
 alpha := 2.4
 benchmarkDscal(b,
 n, alpha, x, incX)
}

/* ------------------ */
// SPDX-License-Identifier: Unlicense OR MIT

// +build android

package app

import "C"

import (
 "sync"

 "gioui.org/app/internal/window"
)

var (
 dataDirOnce sync.Once
 dataPath    string
)
```

```
func dataDir() (string, error) {
 dataDirOnce.Do(func() {
  dataPath = window.GetDataDir()
 })
 return dataPath, nil
}
      SUBROUTINE ZUCHK(YR, YI, NZ, ASCLE, TOL)
C***BEGIN PROLOGUE  ZUCHK
C***REFER TO ZSERI,ZUOIK,ZUNK1,ZUNK2,ZUNI1,ZUNI2,ZKSCL
C
C      Y ENTERS AS A SCALED QUANTITY WHOSE MAGNITUDE IS GREATER THAN
C      EXP(-ALIM)=ASCLE=1.0E+3*D1MACH(1)/TOL. THE TEST IS MADE TO SEE
C      IF THE MAGNITUDE OF THE REAL OR IMAGINARY PART WOULD UNDERFLOW
C      WHEN Y IS SCALED (BY TOL) TO ITS PROPER VALUE. Y IS ACCEPTED
C      IF THE UNDERFLOW IS AT LEAST ONE PRECISION BELOW THE MAGNITUDE
C      OF THE LARGEST COMPONENT; OTHERWISE THE PHASE ANGLE DOES NOT HAVE
C      ABSOLUTE ACCURACY AND AN UNDERFLOW IS ASSUMED.
C
C***ROUTINES CALLED  (NONE)
C***END PROLOGUE  ZUCHK
C
C     COMPLEX Y
      DOUBLE PRECISION ASCLE, SS, ST, TOL, WR, WI, YR, YI
      INTEGER NZ
      NZ = 0
      WR = DABS(YR)
      WI = DABS(YI)
      ST = DMIN1(WR,WI)
      IF (ST.GT.ASCLE) RETURN
      SS = DMAX1(WR,WI)
      ST = ST/TOL
      IF (SS.LT.ST) NZ = 1
      RETURN
      END
// Copyright 2017 The Gonum Authors. All rights reserved.
// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

package distmv

import (
 "math"
 "testing"

 "gonum.org/v1/gonum/spatial/r1"
)
```

```
func TestUniformEntropy(t *testing.T) {
 for _, test := range []struct {
  Uniform *Uniform
  Entropy float64
 }{
  {
   NewUniform([]r1.Interval{{0, 1}, {0, 1}}, nil),
   0,
  },
  {
   NewUniform([]r1.Interval{{-1, 3}, {2, 8}, {-5, -3}}, nil),
   math.Log(48),
  },
 } {
  ent := test.Uniform.Entropy()
  if math.Abs(ent-test.Entropy) > 1e-14 {
   t.Errorf("Entropy mismatch. Got %v, want %v", ent, test.Entropy)
  }
 }
}
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// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

package gonum

import (
 "math/cmplx"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/internal/asm/c128"
)

var _ blas.Complex128Level3 = Implementation{}

// Zgemm performs one of the matrix-matrix operations
//  C = alpha * op(A) * op(B) + beta * C
// where op(X) is one of
//  op(X) = X  or  op(X) = X  or  op(X) = X,
// alpha and beta are scalars, and A, B and C are matrices, with op(A) an mk matrix,
// op(B) a kn matrix and C an mn matrix.
func (Implementation) Zgemm(tA, tB blas.Transpose, m, n, k int, alpha complex128, a []complex128, lda int, b
[]complex128, ldb int, beta complex128, c []complex128, ldc int) {
 switch tA {
 default:
  panic(badTranspose)
 case blas.NoTrans, blas.Trans, blas.ConjTrans:
 }
```

```
switch tB {
default:
 panic(badTranspose)
case blas.NoTrans, blas.Trans, blas.ConjTrans:
}
switch {
case m < 0:
 panic(mLT0)
case
n < 0:
 panic(nLT0)
case k < 0:
 panic(kLT0)
}
rowA, colA := m, k
if tA != blas.NoTrans {
 rowA, colA = k, m
}
if lda < max(1, colA) {
 panic(badLdA)
}
rowB, colB := k, n
if tB != blas.NoTrans {
 rowB, colB = n, k
}
if ldb < max(1, colB) {
 panic(badLdB)
}
if ldc < max(1, n) {
 panic(badLdC)
}

// Quick return if possible.
if m == 0 || n == 0 {
 return
}

// For zero matrix size the following slice length checks are trivially satisfied.
if len(a) < (rowA-1)*lda+colA {
 panic(shortA)
}
if len(b) < (rowB-1)*ldb+colB {
 panic(shortB)
}
if len(c) < (m-1)*ldc+n {
 panic(shortC)
}
```

```
// Quick return if possible.
if (alpha == 0 || k == 0) && beta == 1 {
 return
}

if alpha == 0 {
 if beta == 0 {
  for i := 0; i < m; i++ {
   for j := 0; j < n; j++ {
    c[i*ldc+j] = 0
   }
  }
 } else {
  for i := 0; i < m; i++ {
   for j := 0; j < n; j++ {
    c[i*ldc+j] *= beta
   }
  }
 }
 return
}

switch tA {
case blas.NoTrans:
 switch
tB {
 case blas.NoTrans:
  // Form  C = alpha * A * B + beta * C.
  for i := 0; i < m; i++ {
   switch {
   case beta == 0:
    for j := 0; j < n; j++ {
     c[i*ldc+j] = 0
    }
   case beta != 1:
    for j := 0; j < n; j++ {
     c[i*ldc+j] *= beta
    }
   }
   for l := 0; l < k; l++ {
    tmp := alpha * a[i*lda+l]
    for j := 0; j < n; j++ {
     c[i*ldc+j] += tmp * b[l*ldb+j]
    }
   }
  }
 case blas.Trans:
  // Form  C = alpha * A * B + beta * C.
```

```
  for i := 0; i < m; i++ {
   switch {
   case beta == 0:
    for j := 0; j < n; j++ {
     c[i*ldc+j] = 0
    }
   case beta != 1:
    for j := 0; j < n; j++ {
     c[i*ldc+j] *= beta
    }
   }
   for l := 0; l < k; l++ {
    tmp := alpha * a[i*lda+l]
    for j := 0; j < n; j++ {
     c[i*ldc+j] += tmp * b[j*ldb+l]
    }
   }
  }
 case blas.ConjTrans:
  // Form  C = alpha * A * B + beta * C.
  for i := 0; i < m; i++ {
   switch {
   case beta == 0:
    for j := 0; j < n; j++ {
     c[i*ldc+j]
= 0
    }
   case beta != 1:
    for j := 0; j < n; j++ {
     c[i*ldc+j] *= beta
    }
   }
   for l := 0; l < k; l++ {
    tmp := alpha * a[i*lda+l]
    for j := 0; j < n; j++ {
     c[i*ldc+j] += tmp * cmplx.Conj(b[j*ldb+l])
    }
   }
  }
 }
case blas.Trans:
 switch tB {
 case blas.NoTrans:
  // Form  C = alpha * A * B + beta * C.
  for i := 0; i < m; i++ {
   for j := 0; j < n; j++ {
    var tmp complex128
    for l := 0; l < k; l++ {
```

```
     tmp += a[l*lda+i] * b[l*ldb+j]
    }
    if beta == 0 {
     c[i*ldc+j] = alpha * tmp
    } else {
     c[i*ldc+j] = alpha*tmp + beta*c[i*ldc+j]
    }
   }
  }
 case blas.Trans:
  // Form  C = alpha * A * B + beta * C.
  for i := 0; i < m; i++ {
   for j := 0; j < n; j++ {
    var tmp complex128
    for l := 0; l < k; l++ {
     tmp += a[l*lda+i] * b[j*ldb+l]
    }
    if beta == 0 {
     c[i*ldc+j] = alpha * tmp
    } else {
     c[i*ldc+j] = alpha*tmp + beta*c[i*ldc+j]
    }
   }
  }
 case
blas.ConjTrans:
  // Form  C = alpha * A * B + beta * C.
  for i := 0; i < m; i++ {
   for j := 0; j < n; j++ {
    var tmp complex128
    for l := 0; l < k; l++ {
     tmp += a[l*lda+i] * cmplx.Conj(b[j*ldb+l])
    }
    if beta == 0 {
     c[i*ldc+j] = alpha * tmp
    } else {
     c[i*ldc+j] = alpha*tmp + beta*c[i*ldc+j]
    }
   }
  }
 }
case blas.ConjTrans:
 switch tB {
 case blas.NoTrans:
  // Form  C = alpha * A * B + beta * C.
  for i := 0; i < m; i++ {
   for j := 0; j < n; j++ {
    var tmp complex128
```

```
    for l := 0; l < k; l++ {
     tmp += cmplx.Conj(a[l*lda+i]) * b[l*ldb+j]
    }
    if beta == 0 {
     c[i*ldc+j] = alpha * tmp
    } else {
     c[i*ldc+j] = alpha*tmp + beta*c[i*ldc+j]
    }
   }
  }
 case blas.Trans:
  // Form  C = alpha * A * B + beta * C.
  for i := 0; i < m; i++ {
   for j := 0; j < n; j++ {
    var tmp complex128
    for l := 0; l < k; l++ {
     tmp += cmplx.Conj(a[l*lda+i]) * b[j*ldb+l]
    }
    if beta
== 0 {
     c[i*ldc+j] = alpha * tmp
    } else {
     c[i*ldc+j] = alpha*tmp + beta*c[i*ldc+j]
    }
   }
  }
 case blas.ConjTrans:
  // Form  C = alpha * A * B + beta * C.
  for i := 0; i < m; i++ {
   for j := 0; j < n; j++ {
    var tmp complex128
    for l := 0; l < k; l++ {
     tmp += cmplx.Conj(a[l*lda+i]) * cmplx.Conj(b[j*ldb+l])
    }
    if beta == 0 {
     c[i*ldc+j] = alpha * tmp
    } else {
     c[i*ldc+j] = alpha*tmp + beta*c[i*ldc+j]
    }
   }
  }
 }
}
}

// Zhemm performs one of the matrix-matrix operations
//  C = alpha*A*B + beta*C  if side == blas.Left
//  C = alpha*B*A + beta*C  if side == blas.Right
```

```
// where alpha and beta are scalars, A is an mm or nn hermitian matrix and B
// and C are mn matrices. The imaginary parts of the diagonal elements of A are
// assumed to be zero.
func (Implementation) Zhemm(side blas.Side, uplo blas.Uplo, m, n int, alpha complex128, a []complex128, lda int,
b []complex128, ldb int, beta complex128, c []complex128,
 ldc int) {
 na := m
 if side == blas.Right {
  na = n
 }
 switch {
 case side != blas.Left && side != blas.Right:
  panic(badSide)
 case uplo != blas.Lower && uplo != blas.Upper:
  panic(badUplo)
 case m < 0:
  panic(mLT0)
 case n < 0:
  panic(nLT0)
 case lda < max(1, na):
  panic(badLdA)
 case ldb < max(1, n):
  panic(badLdB)
 case ldc < max(1, n):
  panic(badLdC)
 }

 // Quick return if possible.
 if m == 0 || n == 0 {
  return
 }

 // For zero matrix size the following slice length checks are trivially satisfied.
 if len(a) < lda*(na-1)+na {
  panic(shortA)
 }
 if len(b) < ldb*(m-1)+n {
  panic(shortB)
 }
 if len(c) < ldc*(m-1)+n {
  panic(shortC)
 }

 // Quick return if possible.
 if alpha == 0 && beta == 1 {
  return
 }
```

```
if alpha == 0 {
 if beta == 0 {
  for i := 0; i < m; i++ {
   ci := c[i*ldc : i*ldc+n]
   for j := range ci {
    ci[j] = 0
   }
  }
 } else {
  for i := 0; i < m; i++ {
   ci := c[i*ldc : i*ldc+n]
   c128.ScalUnitary(beta, ci)
  }
 }
 return
}

if
side == blas.Left {
 // Form  C = alpha*A*B + beta*C.
 for i := 0; i < m; i++ {
  atmp := alpha * complex(real(a[i*lda+i]), 0)
  bi := b[i*ldb : i*ldb+n]
  ci := c[i*ldc : i*ldc+n]
  if beta == 0 {
   for j, bij := range bi {
    ci[j] = atmp * bij
   }
  } else {
   for j, bij := range bi {
    ci[j] = atmp*bij + beta*ci[j]
   }
  }
  if uplo == blas.Upper {
   for k := 0; k < i; k++ {
    atmp = alpha * cmplx.Conj(a[k*lda+i])
    c128.AxpyUnitary(atmp, b[k*ldb:k*ldb+n], ci)
   }
   for k := i + 1; k < m; k++ {
    atmp = alpha * a[i*lda+k]
    c128.AxpyUnitary(atmp, b[k*ldb:k*ldb+n], ci)
   }
  } else {
   for k := 0; k < i; k++ {
    atmp = alpha * a[i*lda+k]
    c128.AxpyUnitary(atmp, b[k*ldb:k*ldb+n], ci)
   }
   for k := i + 1; k < m; k++ {
```

```
    atmp = alpha * cmplx.Conj(a[k*lda+i])
    c128.AxpyUnitary(atmp, b[k*ldb:k*ldb+n], ci)
   }
  }
 }
} else {
 // Form  C = alpha*B*A + beta*C.
 if uplo == blas.Upper {
  for i := 0; i < m; i++
{
   for j := n - 1; j >= 0; j-- {
    abij := alpha * b[i*ldb+j]
    aj := a[j*lda+j+1 : j*lda+n]
    bi := b[i*ldb+j+1 : i*ldb+n]
    ci := c[i*ldc+j+1 : i*ldc+n]
    var tmp complex128
    for k, ajk := range aj {
     ci[k] += abij * ajk
     tmp += bi[k] * cmplx.Conj(ajk)
    }
    ajj := complex(real(a[j*lda+j]), 0)
    if beta == 0 {
     c[i*ldc+j] = abij*ajj + alpha*tmp
    } else {
     c[i*ldc+j] = abij*ajj + alpha*tmp + beta*c[i*ldc+j]
    }
   }
  }
 } else {
  for i := 0; i < m; i++ {
   for j := 0; j < n; j++ {
    abij := alpha * b[i*ldb+j]
    aj := a[j*lda : j*lda+j]
    bi := b[i*ldb : i*ldb+j]
    ci := c[i*ldc : i*ldc+j]
    var tmp complex128
    for k, ajk := range aj {
     ci[k] += abij * ajk
     tmp += bi[k] * cmplx.Conj(ajk)
    }
    ajj := complex(real(a[j*lda+j]), 0)
    if beta == 0 {
     c[i*ldc+j] = abij*ajj + alpha*tmp
    } else {
     c[i*ldc+j] = abij*ajj + alpha*tmp + beta*c[i*ldc+j]
    }
   }
  }
```

```
  }
 }
}

//
 Zherk performs one of the hermitian rank-k operations
//  C = alpha*A*A + beta*C  if trans == blas.NoTrans
//  C = alpha*A*A + beta*C  if trans == blas.ConjTrans
// where alpha and beta are real scalars, C is an nn hermitian matrix and A is
// an nk matrix in the first case and a kn matrix in the second case.
//
// The imaginary parts of the diagonal elements of C are assumed to be zero, and
// on return they will be set to zero.
func (Implementation) Zherk(uplo blas.Uplo, trans blas.Transpose, n, k int, alpha float64, a []complex128, lda int,
beta float64, c []complex128, ldc int) {
 var rowA, colA int
 switch trans {
 default:
  panic(badTranspose)
 case blas.NoTrans:
  rowA, colA = n, k
 case blas.ConjTrans:
  rowA, colA = k, n
 }
 switch {
 case uplo != blas.Lower && uplo != blas.Upper:
  panic(badUplo)
 case n < 0:
  panic(nLT0)
 case k < 0:
  panic(kLT0)
 case lda < max(1, colA):
  panic(badLdA)
 case ldc < max(1, n):
  panic(badLdC)
 }

 // Quick return if possible.
 if n ==
 0 {
  return
 }

 // For zero matrix size the following slice length checks are trivially satisfied.
 if len(a) < (rowA-1)*lda+colA {
  panic(shortA)
 }
 if len(c) < (n-1)*ldc+n {
```

```
 panic(shortC)
}

// Quick return if possible.
if (alpha == 0 || k == 0) && beta == 1 {
 return
}

if alpha == 0 {
 if uplo == blas.Upper {
  if beta == 0 {
   for i := 0; i < n; i++ {
    ci := c[i*ldc+i : i*ldc+n]
    for j := range ci {
     ci[j] = 0
    }
   }
  } else {
   for i := 0; i < n; i++ {
    ci := c[i*ldc+i : i*ldc+n]
    ci[0] = complex(beta*real(ci[0]), 0)
    if i != n-1 {
     c128.DscalUnitary(beta, ci[1:])
    }
   }
  }
 } else {
  if beta == 0 {
   for i := 0; i < n; i++ {
    ci := c[i*ldc : i*ldc+i+1]
    for j := range ci {
     ci[j] = 0
    }
   }
  } else {
   for i := 0; i < n; i++ {
    ci := c[i*ldc : i*ldc+i+1]
    if i != 0 {
     c128.DscalUnitary(beta, ci[:i])
    }
    ci[i] = complex(beta*real(ci[i]), 0)
   }
  }
 }
 return
}

calpha
```

```
:= complex(alpha, 0)
if trans == blas.NoTrans {
 // Form  C = alpha*A*A + beta*C.
 cbeta := complex(beta, 0)
 if uplo == blas.Upper {
  for i := 0; i < n; i++ {
   ci := c[i*ldc+i : i*ldc+n]
   ai := a[i*lda : i*lda+k]
   switch {
   case beta == 0:
    // Handle the i-th diagonal element of C.
    ci[0] = complex(alpha*real(c128.DotcUnitary(ai, ai)), 0)
    // Handle the remaining elements on the i-th row of C.
    for jc := range ci[1:] {
     j := i + 1 + jc
     ci[jc+1] = calpha * c128.DotcUnitary(a[j*lda:j*lda+k], ai)
    }
   case beta != 1:
    cii := calpha*c128.DotcUnitary(ai, ai) + cbeta*ci[0]
    ci[0] = complex(real(cii), 0)
    for jc, cij := range ci[1:] {
     j := i + 1 + jc
     ci[jc+1] = calpha*c128.DotcUnitary(a[j*lda:j*lda+k], ai) + cbeta*cij
    }
   default:
    cii := calpha*c128.DotcUnitary(ai, ai) + ci[0]
    ci[0] = complex(real(cii), 0)
    for jc, cij := range ci[1:] {
     j := i + 1 + jc
     ci[jc+1] = calpha*c128.DotcUnitary(a[j*lda:j*lda+k],
ai) + cij
    }
   }
  }
 } else {
  for i := 0; i < n; i++ {
   ci := c[i*ldc : i*ldc+i+1]
   ai := a[i*lda : i*lda+k]
   switch {
   case beta == 0:
    // Handle the first i-1 elements on the i-th row of C.
    for j := range ci[:i] {
     ci[j] = calpha * c128.DotcUnitary(a[j*lda:j*lda+k], ai)
    }
    // Handle the i-th diagonal element of C.
    ci[i] = complex(alpha*real(c128.DotcUnitary(ai, ai)), 0)
   case beta != 1:
    for j, cij := range ci[:i] {
```

```
     ci[j] = calpha*c128.DotcUnitary(a[j*lda:j*lda+k], ai) + cbeta*cij
    }
    cii := calpha*c128.DotcUnitary(ai, ai) + cbeta*ci[i]
    ci[i] = complex(real(cii), 0)
   default:
    for j, cij := range ci[:i] {
     ci[j] = calpha*c128.DotcUnitary(a[j*lda:j*lda+k], ai) + cij
    }
    cii := calpha*c128.DotcUnitary(ai, ai) + ci[i]
    ci[i] = complex(real(cii), 0)
   }
  }
 }
} else {
 // Form  C = alpha*A*A + beta*C.
 if uplo == blas.Upper {
  for i := 0; i < n; i++
{
   ci := c[i*ldc+i : i*ldc+n]
   switch {
   case beta == 0:
    for jc := range ci {
     ci[jc] = 0
    }
   case beta != 1:
    c128.DscalUnitary(beta, ci)
    ci[0] = complex(real(ci[0]), 0)
   default:
    ci[0] = complex(real(ci[0]), 0)
   }
   for j := 0; j < k; j++ {
    aji := cmplx.Conj(a[j*lda+i])
    if aji != 0 {
     c128.AxpyUnitary(calpha*aji, a[j*lda+i:j*lda+n], ci)
    }
   }
   c[i*ldc+i] = complex(real(c[i*ldc+i]), 0)
  }
 } else {
  for i := 0; i < n; i++ {
   ci := c[i*ldc : i*ldc+i+1]
   switch {
   case beta == 0:
    for j := range ci {
     ci[j] = 0
    }
   case beta != 1:
    c128.DscalUnitary(beta, ci)
```

```
    ci[i] = complex(real(ci[i]), 0)
   default:
    ci[i] = complex(real(ci[i]), 0)
   }
   for j := 0; j < k; j++ {
    aji := cmplx.Conj(a[j*lda+i])
    if aji != 0 {
     c128.AxpyUnitary(calpha*aji, a[j*lda:j*lda+i+1], ci)
    }
   }
   c[i*ldc+i] = complex(real(c[i*ldc+i]), 0)
  }
 }
}
}

// Zher2k performs
 one of the hermitian rank-2k operations
//  C = alpha*A*B + conj(alpha)*B*A + beta*C  if trans == blas.NoTrans
//  C = alpha*A*B + conj(alpha)*B*A + beta*C  if trans == blas.ConjTrans
// where alpha and beta are scalars with beta real, C is an nn hermitian matrix
// and A and B are nk matrices in the first case and kn matrices in the second case.
//
// The imaginary parts of the diagonal elements of C are assumed to be zero, and
// on return they will be set to zero.
func (Implementation) Zher2k(uplo blas.Uplo, trans blas.Transpose, n, k int, alpha complex128, a []complex128, lda
int, b []complex128, ldb int, beta float64, c []complex128, ldc int) {
 var row, col int
 switch trans {
 default:
  panic(badTranspose)
 case blas.NoTrans:
  row, col = n, k
 case blas.ConjTrans:
  row, col = k, n
 }
 switch {
 case uplo != blas.Lower && uplo != blas.Upper:
  panic(badUplo)
 case n < 0:
  panic(nLT0)
 case k < 0:
  panic(kLT0)
 case lda < max(1, col):
  panic(badLdA)
 case ldb < max(1, col):
  panic(badLdB)
 case
```

```
ldc < max(1, n):
 panic(badLdC)
}

// Quick return if possible.
if n == 0 {
 return
}

// For zero matrix size the following slice length checks are trivially satisfied.
if len(a) < (row-1)*lda+col {
 panic(shortA)
}
if len(b) < (row-1)*ldb+col {
 panic(shortB)
}
if len(c) < (n-1)*ldc+n {
 panic(shortC)
}

// Quick return if possible.
if (alpha == 0 || k == 0) && beta == 1 {
 return
}

if alpha == 0 {
 if uplo == blas.Upper {
  if beta == 0 {
   for i := 0; i < n; i++ {
    ci := c[i*ldc+i : i*ldc+n]
    for j := range ci {
     ci[j] = 0
    }
   }
  } else {
   for i := 0; i < n; i++ {
    ci := c[i*ldc+i : i*ldc+n]
    ci[0] = complex(beta*real(ci[0]), 0)
    if i != n-1 {
     c128.DscalUnitary(beta, ci[1:])
    }
   }
  }
 } else {
  if beta == 0 {
   for i := 0; i < n; i++ {
    ci := c[i*ldc : i*ldc+i+1]
    for j := range ci {
```

```
     ci[j] = 0
    }
   }
  } else {
   for i := 0; i < n; i++ {
    ci := c[i*ldc
: i*ldc+i+1]
    if i != 0 {
     c128.DscalUnitary(beta, ci[:i])
    }
    ci[i] = complex(beta*real(ci[i]), 0)
   }
  }
 }
 return
}

conjalpha := cmplx.Conj(alpha)
cbeta := complex(beta, 0)
if trans == blas.NoTrans {
 // Form  C = alpha*A*B + conj(alpha)*B*A + beta*C.
 if uplo == blas.Upper {
  for i := 0; i < n; i++ {
   ci := c[i*ldc+i+1 : i*ldc+n]
   ai := a[i*lda : i*lda+k]
   bi := b[i*ldb : i*ldb+k]
   if beta == 0 {
    cii := alpha*c128.DotcUnitary(bi, ai) + conjalpha*c128.DotcUnitary(ai, bi)
    c[i*ldc+i] = complex(real(cii), 0)
    for jc := range ci {
     j := i + 1 + jc
     ci[jc] = alpha*c128.DotcUnitary(b[j*ldb:j*ldb+k], ai) + conjalpha*c128.DotcUnitary(a[j*lda:j*lda+k], bi)
    }
   } else {
    cii := alpha*c128.DotcUnitary(bi, ai) + conjalpha*c128.DotcUnitary(ai, bi) + cbeta*c[i*ldc+i]
    c[i*ldc+i] = complex(real(cii), 0)
    for jc, cij := range ci {
     j := i + 1 + jc
     ci[jc] = alpha*c128.DotcUnitary(b[j*ldb:j*ldb+k], ai)
+ conjalpha*c128.DotcUnitary(a[j*lda:j*lda+k], bi) + cbeta*cij
    }
   }
  }
 } else {
  for i := 0; i < n; i++ {
   ci := c[i*ldc : i*ldc+i]
   ai := a[i*lda : i*lda+k]
   bi := b[i*ldb : i*ldb+k]
```

```
    if beta == 0 {
     for j := range ci {
      ci[j] = alpha*c128.DotcUnitary(b[j*ldb:j*ldb+k], ai) + conjalpha*c128.DotcUnitary(a[j*lda:j*lda+k], bi)
     }
     cii := alpha*c128.DotcUnitary(bi, ai) + conjalpha*c128.DotcUnitary(ai, bi)
     c[i*ldc+i] = complex(real(cii), 0)
    } else {
     for j, cij := range ci {
      ci[j] = alpha*c128.DotcUnitary(b[j*ldb:j*ldb+k], ai) + conjalpha*c128.DotcUnitary(a[j*lda:j*lda+k], bi) +
cbeta*cij
     }
     cii := alpha*c128.DotcUnitary(bi, ai) + conjalpha*c128.DotcUnitary(ai, bi) + cbeta*c[i*ldc+i]
     c[i*ldc+i] = complex(real(cii), 0)
    }
   }
  }
 } else {
  // Form  C = alpha*A*B + conj(alpha)*B*A + beta*C.
  if uplo == blas.Upper {
   for i := 0; i < n; i++ {
    ci := c[i*ldc+i : i*ldc+n]
    switch {
    case beta == 0:
     for
 jc := range ci {
      ci[jc] = 0
     }
    case beta != 1:
     c128.DscalUnitary(beta, ci)
     ci[0] = complex(real(ci[0]), 0)
    default:
     ci[0] = complex(real(ci[0]), 0)
    }
    for j := 0; j < k; j++ {
     aji := a[j*lda+i]
     bji := b[j*ldb+i]
     if aji != 0 {
      c128.AxpyUnitary(alpha*cmplx.Conj(aji), b[j*ldb+i:j*ldb+n], ci)
     }
     if bji != 0 {
      c128.AxpyUnitary(conjalpha*cmplx.Conj(bji), a[j*lda+i:j*lda+n], ci)
     }
    }
    ci[0] = complex(real(ci[0]), 0)
   }
  } else {
   for i := 0; i < n; i++ {
    ci := c[i*ldc : i*ldc+i+1]
```

```
    switch {
    case beta == 0:
     for j := range ci {
      ci[j] = 0
     }
    case beta != 1:
     c128.DscalUnitary(beta, ci)
     ci[i] = complex(real(ci[i]), 0)
    default:
     ci[i] = complex(real(ci[i]), 0)
    }
    for j := 0; j < k; j++ {
     aji := a[j*lda+i]
     bji := b[j*ldb+i]
     if aji != 0 {
      c128.AxpyUnitary(alpha*cmplx.Conj(aji), b[j*ldb:j*ldb+i+1], ci)
     }
     if bji != 0 {
      c128.AxpyUnitary(conjalpha*cmplx.Conj(bji),
 a[j*lda:j*lda+i+1], ci)
     }
    }
    ci[i] = complex(real(ci[i]), 0)
   }
  }
 }
}

// Zsymm performs one of the matrix-matrix operations
//  C = alpha*A*B + beta*C  if side == blas.Left
//  C = alpha*B*A + beta*C  if side == blas.Right
// where alpha and beta are scalars, A is an mm or nn symmetric matrix and B
// and C are mn matrices.
func (Implementation) Zsymm(side blas.Side, uplo blas.Uplo, m, n int, alpha complex128, a []complex128, lda int,
b []complex128, ldb int, beta complex128, c []complex128, ldc int) {
 na := m
 if side == blas.Right {
  na = n
 }
 switch {
 case side != blas.Left && side != blas.Right:
  panic(badSide)
 case uplo != blas.Lower && uplo != blas.Upper:
  panic(badUplo)
 case m < 0:
  panic(mLT0)
 case n < 0:
  panic(nLT0)
```

```
case lda < max(1, na):
 panic(badLdA)
case ldb < max(1, n):
 panic(badLdB)
case ldc < max(1, n):
 panic(badLdC)
}

// Quick return if possible.
if m == 0 || n == 0 {
 return
}

//
For zero matrix size the following slice length checks are trivially satisfied.
if len(a) < lda*(na-1)+na {
 panic(shortA)
}
if len(b) < ldb*(m-1)+n {
 panic(shortB)
}
if len(c) < ldc*(m-1)+n {
 panic(shortC)
}

// Quick return if possible.
if alpha == 0 && beta == 1 {
 return
}

if alpha == 0 {
 if beta == 0 {
  for i := 0; i < m; i++ {
   ci := c[i*ldc : i*ldc+n]
   for j := range ci {
    ci[j] = 0
   }
  }
 } else {
  for i := 0; i < m; i++ {
   ci := c[i*ldc : i*ldc+n]
   c128.ScalUnitary(beta, ci)
  }
 }
 return
}

if side == blas.Left {
```

```
 // Form  C = alpha*A*B + beta*C.
 for i := 0; i < m; i++ {
  atmp := alpha * a[i*lda+i]
  bi := b[i*ldb : i*ldb+n]
  ci := c[i*ldc : i*ldc+n]
  if beta == 0 {
   for j, bij := range bi {
    ci[j] = atmp * bij
   }
  } else {
   for j, bij := range bi {
    ci[j] = atmp*bij + beta*ci[j]
   }
  }
  if uplo == blas.Upper {
   for k := 0; k < i; k++ {
    atmp = alpha * a[k*lda+i]
    c128.AxpyUnitary(atmp,
b[k*ldb:k*ldb+n], ci)
   }
   for k := i + 1; k < m; k++ {
    atmp = alpha * a[i*lda+k]
    c128.AxpyUnitary(atmp, b[k*ldb:k*ldb+n], ci)
   }
  } else {
   for k := 0; k < i; k++ {
    atmp = alpha * a[i*lda+k]
    c128.AxpyUnitary(atmp, b[k*ldb:k*ldb+n], ci)
   }
   for k := i + 1; k < m; k++ {
    atmp = alpha * a[k*lda+i]
    c128.AxpyUnitary(atmp, b[k*ldb:k*ldb+n], ci)
   }
  }
 }
} else {
 // Form  C = alpha*B*A + beta*C.
 if uplo == blas.Upper {
  for i := 0; i < m; i++ {
   for j := n - 1; j >= 0; j-- {
    abij := alpha * b[i*ldb+j]
    aj := a[j*lda+j+1 : j*lda+n]
    bi := b[i*ldb+j+1 : i*ldb+n]
    ci := c[i*ldc+j+1 : i*ldc+n]
    var tmp complex128
    for k, ajk := range aj {
     ci[k] += abij * ajk
     tmp += bi[k] * ajk
```

```
    }
    if beta == 0 {
     c[i*ldc+j] = abij*a[j*lda+j] + alpha*tmp
    } else {
     c[i*ldc+j] = abij*a[j*lda+j] + alpha*tmp + beta*c[i*ldc+j]
    }
   }
  }
 } else {
  for i := 0; i < m; i++ {
   for
j := 0; j < n; j++ {
    abij := alpha * b[i*ldb+j]
    aj := a[j*lda : j*lda+j]
    bi := b[i*ldb : i*ldb+j]
    ci := c[i*ldc : i*ldc+j]
    var tmp complex128
    for k, ajk := range aj {
     ci[k] += abij * ajk
     tmp += bi[k] * ajk
    }
    if beta == 0 {
     c[i*ldc+j] = abij*a[j*lda+j] + alpha*tmp
    } else {
     c[i*ldc+j] = abij*a[j*lda+j] + alpha*tmp + beta*c[i*ldc+j]
    }
   }
  }
 }
}
}

// Zsyrk performs one of the symmetric rank-k operations
//  C = alpha*A*A + beta*C  if trans == blas.NoTrans
//  C = alpha*A*A + beta*C  if trans == blas.Trans
// where alpha and beta are scalars, C is an nn symmetric matrix and A is
// an nk matrix in the first case and a kn matrix in the second case.
func (Implementation) Zsyrk(uplo blas.Uplo, trans blas.Transpose, n, k int, alpha complex128, a []complex128, lda
int, beta complex128, c []complex128, ldc int) {
 var rowA, colA int
 switch trans {
 default:
  panic(badTranspose)
 case blas.NoTrans:
  rowA,
 colA = n, k
 case blas.Trans:
  rowA, colA = k, n
```

```
}
switch {
case uplo != blas.Lower && uplo != blas.Upper:
 panic(badUplo)
case n < 0:
 panic(nLT0)
case k < 0:
 panic(kLT0)
case lda < max(1, colA):
 panic(badLdA)
case ldc < max(1, n):
 panic(badLdC)
}

// Quick return if possible.
if n == 0 {
 return
}

// For zero matrix size the following slice length checks are trivially satisfied.
if len(a) < (rowA-1)*lda+colA {
 panic(shortA)
}
if len(c) < (n-1)*ldc+n {
 panic(shortC)
}

// Quick return if possible.
if (alpha == 0 || k == 0) && beta == 1 {
 return
}

if alpha == 0 {
 if uplo == blas.Upper {
  if beta == 0 {
   for i := 0; i < n; i++ {
    ci := c[i*ldc+i : i*ldc+n]
    for j := range ci {
     ci[j] = 0
    }
   }
  } else {
   for i := 0; i < n; i++ {
    ci := c[i*ldc+i : i*ldc+n]
    c128.ScalUnitary(beta, ci)
   }
  }
 } else {
```

```
  if beta == 0 {
   for i := 0; i < n; i++ {
    ci := c[i*ldc : i*ldc+i+1]
    for j := range ci {
     ci[j]
= 0
    }
   }
  } else {
   for i := 0; i < n; i++ {
    ci := c[i*ldc : i*ldc+i+1]
    c128.ScalUnitary(beta, ci)
   }
  }
 }
 return
}

if trans == blas.NoTrans {
 // Form  C = alpha*A*A + beta*C.
 if uplo == blas.Upper {
  for i := 0; i < n; i++ {
   ci := c[i*ldc+i : i*ldc+n]
   ai := a[i*lda : i*lda+k]
   for jc, cij := range ci {
    j := i + jc
    ci[jc] = beta*cij + alpha*c128.DotuUnitary(ai, a[j*lda:j*lda+k])
   }
  }
 } else {
  for i := 0; i < n; i++ {
   ci := c[i*ldc : i*ldc+i+1]
   ai := a[i*lda : i*lda+k]
   for j, cij := range ci {
    ci[j] = beta*cij + alpha*c128.DotuUnitary(ai, a[j*lda:j*lda+k])
   }
  }
 }
} else {
 // Form  C = alpha*A*A + beta*C.
 if uplo == blas.Upper {
  for i := 0; i < n; i++ {
   ci := c[i*ldc+i : i*ldc+n]
   switch {
   case beta == 0:
    for jc := range ci {
     ci[jc] = 0
    }
```

```
    case beta != 1:
     for jc := range ci {
      ci[jc] *= beta
     }
    }
    for j := 0; j < k; j++ {
     aji
:= a[j*lda+i]
     if aji != 0 {
      c128.AxpyUnitary(alpha*aji, a[j*lda+i:j*lda+n], ci)
     }
    }
   }
  } else {
   for i := 0; i < n; i++ {
    ci := c[i*ldc : i*ldc+i+1]
    switch {
    case beta == 0:
     for j := range ci {
      ci[j] = 0
     }
    case beta != 1:
     for j := range ci {
      ci[j] *= beta
     }
    }
    for j := 0; j < k; j++ {
     aji := a[j*lda+i]
     if aji != 0 {
      c128.AxpyUnitary(alpha*aji, a[j*lda:j*lda+i+1], ci)
     }
    }
   }
  }
 }
}

// Zsyr2k performs one of the symmetric rank-2k operations
//  C = alpha*A*B + alpha*B*A + beta*C  if trans == blas.NoTrans
//  C = alpha*A*B + alpha*B*A + beta*C  if trans == blas.Trans
// where alpha and beta are scalars, C is an nn symmetric matrix and A and B
// are nk matrices in the first case and kn matrices in the second case.
func (Implementation) Zsyr2k(uplo blas.Uplo, trans blas.Transpose, n, k int, alpha complex128, a []complex128, lda
int, b []complex128, ldb int, beta complex128,
 c []complex128, ldc int) {
 var row, col int
 switch trans {
 default:
```

```
 panic(badTranspose)
case blas.NoTrans:
 row, col = n, k
case blas.Trans:
 row, col = k, n
}
switch {
case uplo != blas.Lower && uplo != blas.Upper:
 panic(badUplo)
case n < 0:
 panic(nLT0)
case k < 0:
 panic(kLT0)
case lda < max(1, col):
 panic(badLdA)
case ldb < max(1, col):
 panic(badLdB)
case ldc < max(1, n):
 panic(badLdC)
}

// Quick return if possible.
if n == 0 {
 return
}

// For zero matrix size the following slice length checks are trivially satisfied.
if len(a) < (row-1)*lda+col {
 panic(shortA)
}
if len(b) < (row-1)*ldb+col {
 panic(shortB)
}
if len(c) < (n-1)*ldc+n {
 panic(shortC)
}

// Quick return if possible.
if (alpha == 0 || k == 0) && beta == 1 {
 return
}

if alpha == 0 {
 if uplo == blas.Upper {
  if beta == 0 {
   for i := 0; i < n; i++ {
    ci := c[i*ldc+i : i*ldc+n]
    for j := range ci {
```

```
     ci[j] = 0
    }
   }
  } else {
   for i := 0;
i < n; i++ {
    ci := c[i*ldc+i : i*ldc+n]
    c128.ScalUnitary(beta, ci)
   }
  }
 } else {
  if beta == 0 {
   for i := 0; i < n; i++ {
    ci := c[i*ldc : i*ldc+i+1]
    for j := range ci {
     ci[j] = 0
    }
   }
  } else {
   for i := 0; i < n; i++ {
    ci := c[i*ldc : i*ldc+i+1]
    c128.ScalUnitary(beta, ci)
   }
  }
 }
 return
}

if trans == blas.NoTrans {
 // Form  C = alpha*A*B + alpha*B*A + beta*C.
 if uplo == blas.Upper {
  for i := 0; i < n; i++ {
   ci := c[i*ldc+i : i*ldc+n]
   ai := a[i*lda : i*lda+k]
   bi := b[i*ldb : i*ldb+k]
   if beta == 0 {
    for jc := range ci {
     j := i + jc
     ci[jc] = alpha*c128.DotuUnitary(ai, b[j*ldb:j*ldb+k]) + alpha*c128.DotuUnitary(bi, a[j*lda:j*lda+k])
    }
   } else {
    for jc, cij := range ci {
     j := i + jc
     ci[jc] = alpha*c128.DotuUnitary(ai, b[j*ldb:j*ldb+k]) + alpha*c128.DotuUnitary(bi, a[j*lda:j*lda+k]) + beta*cij
    }
   }
  }
 } else {
```

```
  for i := 0; i < n; i++ {
   ci
:= c[i*ldc : i*ldc+i+1]
   ai := a[i*lda : i*lda+k]
   bi := b[i*ldb : i*ldb+k]
   if beta == 0 {
    for j := range ci {
     ci[j] = alpha*c128.DotuUnitary(ai, b[j*ldb:j*ldb+k]) + alpha*c128.DotuUnitary(bi, a[j*lda:j*lda+k])
    }
   } else {
    for j, cij := range ci {
     ci[j] = alpha*c128.DotuUnitary(ai, b[j*ldb:j*ldb+k]) + alpha*c128.DotuUnitary(bi, a[j*lda:j*lda+k]) + beta*cij
    }
   }
  }
 }
} else {
 // Form  C = alpha*A*B + alpha*B*A + beta*C.
 if uplo == blas.Upper {
  for i := 0; i < n; i++ {
   ci := c[i*ldc+i : i*ldc+n]
   switch {
   case beta == 0:
    for jc := range ci {
     ci[jc] = 0
    }
   case beta != 1:
    for jc := range ci {
     ci[jc] *= beta
    }
   }
   for j := 0; j < k; j++ {
    aji := a[j*lda+i]
    bji := b[j*ldb+i]
    if aji != 0 {
     c128.AxpyUnitary(alpha*aji, b[j*ldb+i:j*ldb+n], ci)
    }
    if bji != 0 {
     c128.AxpyUnitary(alpha*bji, a[j*lda+i:j*lda+n], ci)
    }
   }
  }
 } else {
  for
i := 0; i < n; i++ {
   ci := c[i*ldc : i*ldc+i+1]
   switch {
   case beta == 0:
```

```
      for j := range ci {
       ci[j] = 0
      }
     case beta != 1:
      for j := range ci {
       ci[j] *= beta
      }
     }
     for j := 0; j < k; j++ {
      aji := a[j*lda+i]
      bji := b[j*ldb+i]
      if aji != 0 {
       c128.AxpyUnitary(alpha*aji, b[j*ldb:j*ldb+i+1], ci)
      }
      if bji != 0 {
       c128.AxpyUnitary(alpha*bji, a[j*lda:j*lda+i+1], ci)
      }
     }
    }
   }
  }
}

// Ztrmm performs one of the matrix-matrix operations
//  B = alpha * op(A) * B  if side == blas.Left,
//  B = alpha * B * op(A)  if side == blas.Right,
// where alpha is a scalar, B is an mn matrix, A is a unit, or non-unit,
// upper or lower triangular matrix and op(A) is one of
//  op(A) = A   if trans == blas.NoTrans,
//  op(A) = A  if trans == blas.Trans,
//  op(A) = A  if trans == blas.ConjTrans.
func (Implementation) Ztrmm(side blas.Side, uplo blas.Uplo, trans blas.Transpose, diag blas.Diag, m, n int, alpha
complex128,
 a []complex128, lda int, b []complex128, ldb int) {
 na := m
 if side == blas.Right {
  na = n
 }
 switch {
 case side != blas.Left && side != blas.Right:
  panic(badSide)
 case uplo != blas.Lower && uplo != blas.Upper:
  panic(badUplo)
 case trans != blas.NoTrans && trans != blas.Trans && trans != blas.ConjTrans:
  panic(badTranspose)
 case diag != blas.Unit && diag != blas.NonUnit:
  panic(badDiag)
 case m < 0:
```

```
 panic(mLT0)
case n < 0:
 panic(nLT0)
case lda < max(1, na):
 panic(badLdA)
case ldb < max(1, n):
 panic(badLdB)
}

// Quick return if possible.
if m == 0 || n == 0 {
 return
}

// For zero matrix size the following slice length checks are trivially satisfied.
if len(a) < (na-1)*lda+na {
 panic(shortA)
}
if len(b) < (m-1)*ldb+n {
 panic(shortB)
}

// Quick return if possible.
if alpha == 0 {
 for i := 0; i < m; i++ {
  bi := b[i*ldb : i*ldb+n]
  for j := range bi {
   bi[j] = 0
  }
 }
 return
}

noConj := trans != blas.ConjTrans
noUnit
:= diag == blas.NonUnit
if side == blas.Left {
 if trans == blas.NoTrans {
  // Form B = alpha*A*B.
  if uplo == blas.Upper {
   for i := 0; i < m; i++ {
    aii := alpha
    if noUnit {
     aii *= a[i*lda+i]
    }
    bi := b[i*ldb : i*ldb+n]
    for j := range bi {
     bi[j] *= aii
```

```
    }
    for ja, aij := range a[i*lda+i+1 : i*lda+m] {
     j := ja + i + 1
     if aij != 0 {
      c128.AxpyUnitary(alpha*aij, b[j*ldb:j*ldb+n], bi)
     }
    }
   }
  } else {
   for i := m - 1; i >= 0; i-- {
    aii := alpha
    if noUnit {
     aii *= a[i*lda+i]
    }
    bi := b[i*ldb : i*ldb+n]
    for j := range bi {
     bi[j] *= aii
    }
    for j, aij := range a[i*lda : i*lda+i] {
     if aij != 0 {
      c128.AxpyUnitary(alpha*aij, b[j*ldb:j*ldb+n], bi)
     }
    }
   }
  }
 } else {
  // Form B = alpha*A*B  or  B = alpha*A*B.
  if uplo == blas.Upper {
   for k := m - 1; k >= 0; k-- {
    bk := b[k*ldb : k*ldb+n]
    for ja, ajk := range a[k*lda+k+1
: k*lda+m] {
     if ajk == 0 {
      continue
     }
     j := k + 1 + ja
     if noConj {
      c128.AxpyUnitary(alpha*ajk, bk, b[j*ldb:j*ldb+n])
     } else {
      c128.AxpyUnitary(alpha*cmplx.Conj(ajk), bk, b[j*ldb:j*ldb+n])
     }
    }
    akk := alpha
    if noUnit {
     if noConj {
      akk *= a[k*lda+k]
     } else {
      akk *= cmplx.Conj(a[k*lda+k])
```

```
      }
     }
     if akk != 1 {
      c128.ScalUnitary(akk, bk)
     }
    }
   } else {
    for k := 0; k < m; k++ {
     bk := b[k*ldb : k*ldb+n]
     for j, ajk := range a[k*lda : k*lda+k] {
      if ajk == 0 {
       continue
      }
      if noConj {
       c128.AxpyUnitary(alpha*ajk, bk, b[j*ldb:j*ldb+n])
      } else {
       c128.AxpyUnitary(alpha*cmplx.Conj(ajk), bk, b[j*ldb:j*ldb+n])
      }
     }
     akk := alpha
     if noUnit {
      if noConj {
       akk *= a[k*lda+k]
      } else {
       akk *= cmplx.Conj(a[k*lda+k])
      }
     }
     if akk != 1 {
      c128.ScalUnitary(akk, bk)
     }
    }
   }
  }
 }
else {
 if trans == blas.NoTrans {
  // Form B = alpha*B*A.
  if uplo == blas.Upper {
   for i := 0; i < m; i++ {
    bi := b[i*ldb : i*ldb+n]
    for k := n - 1; k >= 0; k-- {
     abik := alpha * bi[k]
     if abik == 0 {
      continue
     }
     bi[k] = abik
     if noUnit {
      bi[k] *= a[k*lda+k]
```

```
      }
      c128.AxpyUnitary(abik, a[k*lda+k+1:k*lda+n], bi[k+1:])
     }
    }
   } else {
    for i := 0; i < m; i++ {
     bi := b[i*ldb : i*ldb+n]
     for k := 0; k < n; k++ {
      abik := alpha * bi[k]
      if abik == 0 {
       continue
      }
      bi[k] = abik
      if noUnit {
       bi[k] *= a[k*lda+k]
      }
      c128.AxpyUnitary(abik, a[k*lda:k*lda+k], bi[:k])
     }
    }
   }
  } else {
   // Form B = alpha*B*A  or  B = alpha*B*A.
   if uplo == blas.Upper {
    for i := 0; i < m; i++ {
     bi := b[i*ldb : i*ldb+n]
     for j, bij := range bi {
      if noConj {
       if noUnit {
        bij *= a[j*lda+j]
       }
       bij +=
c128.DotuUnitary(a[j*lda+j+1:j*lda+n], bi[j+1:n])
      } else {
       if noUnit {
        bij *= cmplx.Conj(a[j*lda+j])
       }
       bij += c128.DotcUnitary(a[j*lda+j+1:j*lda+n], bi[j+1:n])
      }
      bi[j] = alpha * bij
     }
    }
   } else {
    for i := 0; i < m; i++ {
     bi := b[i*ldb : i*ldb+n]
     for j := n - 1; j >= 0; j-- {
      bij := bi[j]
      if noConj {
       if noUnit {
```

```
        bij *= a[j*lda+j]
       }
       bij += c128.DotuUnitary(a[j*lda:j*lda+j], bi[:j])
      } else {
       if noUnit {
        bij *= cmplx.Conj(a[j*lda+j])
       }
       bij += c128.DotcUnitary(a[j*lda:j*lda+j], bi[:j])
      }
      bi[j] = alpha * bij
     }
    }
   }
  }
 }
}

// Ztrsm solves one of the matrix equations
//  op(A) * X = alpha * B  if side == blas.Left,
//  X * op(A) = alpha * B  if side == blas.Right,
// where alpha is a scalar, X and B are mn matrices, A is a unit or
// non-unit, upper or lower triangular matrix and op(A) is one of
//  op(A) = A   if transA
 == blas.NoTrans,
//  op(A) = A  if transA == blas.Trans,
//  op(A) = A  if transA == blas.ConjTrans.
// On return the matrix X is overwritten on B.
func (Implementation) Ztrsm(side blas.Side, uplo blas.Uplo, transA blas.Transpose, diag blas.Diag, m, n int, alpha
complex128, a []complex128, lda int, b []complex128, ldb int) {
 na := m
 if side == blas.Right {
  na = n
 }
 switch {
 case side != blas.Left && side != blas.Right:
  panic(badSide)
 case uplo != blas.Lower && uplo != blas.Upper:
  panic(badUplo)
 case transA != blas.NoTrans && transA != blas.Trans && transA != blas.ConjTrans:
  panic(badTranspose)
 case diag != blas.Unit && diag != blas.NonUnit:
  panic(badDiag)
 case m < 0:
  panic(mLT0)
 case n < 0:
  panic(nLT0)
 case lda < max(1, na):
  panic(badLdA)
```

```
case ldb < max(1, n):
 panic(badLdB)
}

// Quick return if possible.
if m == 0 || n == 0 {
 return
}

// For zero matrix size the following slice length checks are trivially satisfied.
if len(a) < (na-1)*lda+na {
 panic(shortA)
}
if
len(b) < (m-1)*ldb+n {
 panic(shortB)
}

if alpha == 0 {
 for i := 0; i < m; i++ {
  for j := 0; j < n; j++ {
   b[i*ldb+j] = 0
  }
 }
 return
}

noConj := transA != blas.ConjTrans
noUnit := diag == blas.NonUnit
if side == blas.Left {
 if transA == blas.NoTrans {
  // Form  B = alpha*inv(A)*B.
  if uplo == blas.Upper {
   for i := m - 1; i >= 0; i-- {
    bi := b[i*ldb : i*ldb+n]
    if alpha != 1 {
     c128.ScalUnitary(alpha, bi)
    }
    for ka, aik := range a[i*lda+i+1 : i*lda+m] {
     k := i + 1 + ka
     if aik != 0 {
      c128.AxpyUnitary(-aik, b[k*ldb:k*ldb+n], bi)
     }
    }
    if noUnit {
     c128.ScalUnitary(1/a[i*lda+i], bi)
    }
   }
```

```
  } else {
   for i := 0; i < m; i++ {
    bi := b[i*ldb : i*ldb+n]
    if alpha != 1 {
     c128.ScalUnitary(alpha, bi)
    }
    for j, aij := range a[i*lda : i*lda+i] {
     if aij != 0 {
      c128.AxpyUnitary(-aij, b[j*ldb:j*ldb+n], bi)
     }
    }
    if noUnit {
     c128.ScalUnitary(1/a[i*lda+i],
bi)
    }
   }
  }
 } else {
  // Form  B = alpha*inv(A)*B  or  B = alpha*inv(A)*B.
  if uplo == blas.Upper {
   for i := 0; i < m; i++ {
    bi := b[i*ldb : i*ldb+n]
    if noUnit {
     if noConj {
      c128.ScalUnitary(1/a[i*lda+i], bi)
     } else {
      c128.ScalUnitary(1/cmplx.Conj(a[i*lda+i]), bi)
     }
    }
    for ja, aij := range a[i*lda+i+1 : i*lda+m] {
     if aij == 0 {
      continue
     }
     j := i + 1 + ja
     if noConj {
      c128.AxpyUnitary(-aij, bi, b[j*ldb:j*ldb+n])
     } else {
      c128.AxpyUnitary(-cmplx.Conj(aij), bi, b[j*ldb:j*ldb+n])
     }
    }
    if alpha != 1 {
     c128.ScalUnitary(alpha, bi)
    }
   }
  } else {
   for i := m - 1; i >= 0; i-- {
    bi := b[i*ldb : i*ldb+n]
    if noUnit {
```

```
     if noConj {
      c128.ScalUnitary(1/a[i*lda+i], bi)
     } else {
      c128.ScalUnitary(1/cmplx.Conj(a[i*lda+i]), bi)
     }
    }
    for j, aij := range a[i*lda : i*lda+i]
{
     if aij == 0 {
      continue
     }
     if noConj {
      c128.AxpyUnitary(-aij, bi, b[j*ldb:j*ldb+n])
     } else {
      c128.AxpyUnitary(-cmplx.Conj(aij), bi, b[j*ldb:j*ldb+n])
     }
    }
    if alpha != 1 {
     c128.ScalUnitary(alpha, bi)
    }
   }
  }
 }
} else {
 if transA == blas.NoTrans {
  // Form  B = alpha*B*inv(A).
  if uplo == blas.Upper {
   for i := 0; i < m; i++ {
    bi := b[i*ldb : i*ldb+n]
    if alpha != 1 {
     c128.ScalUnitary(alpha, bi)
    }
    for j, bij := range bi {
     if bij == 0 {
      continue
     }
     if noUnit {
      bi[j] /= a[j*lda+j]
     }
     c128.AxpyUnitary(-bi[j], a[j*lda+j+1:j*lda+n], bi[j+1:n])
    }
   }
  } else {
   for i := 0; i < m; i++ {
    bi := b[i*ldb : i*ldb+n]
    if alpha != 1 {
     c128.ScalUnitary(alpha, bi)
    }
```

```
    for j := n - 1; j >= 0; j-- {
     if bi[j] == 0 {
      continue
     }
     if noUnit {
      bi[j] /= a[j*lda+j]
     }
     c128.AxpyUnitary(-bi[j],
a[j*lda:j*lda+j], bi[:j])
    }
   }
  }
 } else {
  // Form  B = alpha*B*inv(A)  or   B = alpha*B*inv(A).
  if uplo == blas.Upper {
   for i := 0; i < m; i++ {
    bi := b[i*ldb : i*ldb+n]
    for j := n - 1; j >= 0; j-- {
     bij := alpha * bi[j]
     if noConj {
      bij -= c128.DotuUnitary(a[j*lda+j+1:j*lda+n], bi[j+1:n])
      if noUnit {
       bij /= a[j*lda+j]
      }
     } else {
      bij -= c128.DotcUnitary(a[j*lda+j+1:j*lda+n], bi[j+1:n])
      if noUnit {
       bij /= cmplx.Conj(a[j*lda+j])
      }
     }
     bi[j] = bij
    }
   }
  } else {
   for i := 0; i < m; i++ {
    bi := b[i*ldb : i*ldb+n]
    for j, bij := range bi {
     bij *= alpha
     if noConj {
      bij -= c128.DotuUnitary(a[j*lda:j*lda+j], bi[:j])
      if noUnit {
       bij /= a[j*lda+j]
      }
     } else {
      bij -= c128.DotcUnitary(a[j*lda:j*lda+j], bi[:j])
      if noUnit {
       bij /= cmplx.Conj(a[j*lda+j])
      }
```

```
      }
      bi[j] =
 bij
     }
    }
   }
  }
 }
}
//** github.com/todbot/blink1@v0.0.0-20201106195604-e657e2245ef9 **//
```

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```
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// license that can be found in the LICENSE file.

// Package amos implements functions originally in the Netlib code by Donald Amos.
package amos // import "gonum.org/v1/gonum/mathext/internal/amos"
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package testlapack

import (
 "fmt"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
)

type Dlaseter interface {
 Dlaset(uplo blas.Uplo, m, n int, alpha, beta float64, a []float64, lda int)
```

```
}

func DlasetTest(t *testing.T, impl Dlaseter) {
 rnd := rand.New(rand.NewSource(1))
 for ti, test := range []struct {
  m, n int
 }{
  {0, 0},
  {1, 1},
  {1, 10},
  {10, 1},
  {2, 2},
  {2, 10},
  {10, 2},
  {11, 11},
  {11, 100},
  {100, 11},
 } {
  m := test.m
  n := test.n
  for _, uplo := range []blas.Uplo{blas.Upper, blas.Lower, blas.All} {
   for _, extra := range []int{0, 10} {
    a := randomGeneral(m, n, n+extra, rnd)
    alpha := 1.0
    beta := 2.0

    impl.Dlaset(uplo, m, n, alpha, beta, a.Data, a.Stride)

    prefix := fmt.Sprintf("Case #%v: m=%v,n=%v,uplo=%v,extra=%v",
     ti, m, n, uplo, extra)
    if !generalOutsideAllNaN(a)
 {
     t.Errorf("%v: out-of-range write to A", prefix)
    }
    for i := 0; i < min(m, n); i++ {
     if a.Data[i*a.Stride+i] != beta {
      t.Errorf("%v: unexpected diagonal of A", prefix)
     }
    }
    if uplo == blas.Upper || uplo == blas.All {
     for i := 0; i < m; i++ {
      for j := i + 1; j < n; j++ {
       if a.Data[i*a.Stride+j] != alpha {
        t.Errorf("%v: unexpected upper triangle of A", prefix)
       }
      }
     }
    }
```

```
    if uplo == blas.Lower || uplo == blas.All {
     for i := 1; i < m; i++ {
      for j := 0; j < min(i, n); j++ {
       if a.Data[i*a.Stride+j] != alpha {
        t.Errorf("%v: unexpected lower triangle of A", prefix)
       }
      }
     }
    }
   }
  }
 }
}
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package integrate

import (
 "math"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/integrate/testquad"
)

func TestSimpsons(t *testing.T) {
 rnd := rand.New(rand.NewSource(1))
 for i, test := range []struct {
  integral testquad.Integral
  n        int
  tol      float64
 }{
  {integral: testquad.Constant(0), n: 3, tol: 0},
  {integral: testquad.Constant(0), n: 10, tol: 0},
  {integral: testquad.Poly(0), n: 3, tol: 1e-14},
  {integral: testquad.Poly(0), n: 10, tol: 1e-14},
  {integral: testquad.Poly(1), n: 3, tol: 1e-14},
  {integral: testquad.Poly(1), n: 10, tol: 1e-14},
  {integral: testquad.Poly(2), n: 3, tol: 1e-14},
  {integral: testquad.Poly(2), n: 10, tol: 1e-14},
  {integral: testquad.Poly(3), n: 1e3, tol: 1e-8},
  {integral: testquad.Poly(4), n: 1e3, tol: 1e-8},
  {integral: testquad.Poly(5), n: 1e3, tol:
 1e-7},
  {integral: testquad.Sin(), n: 1e2, tol: 1e-8},
```

```
  {integral: testquad.XExpMinusX(), n: 1e2, tol: 1e-8},
  {integral: testquad.Sqrt(), n: 1e4, tol: 1e-6},
  {integral: testquad.ExpOverX2Plus1(), n: 1e2, tol: 1e-7},
 } {
  n := test.n
  a := test.integral.A
  b := test.integral.B

  x := jitterSpan(n, a, b, rnd)
  y := make([]float64, n)
  for i, xi := range x {
   y[i] = test.integral.F(xi)
  }

  got := Simpsons(x, y)

  want := test.integral.Value
  diff := math.Abs(got - want)
  if diff > test.tol {
   t.Errorf("Test #%d: %v, n=%v: unexpected result; got=%v want=%v diff=%v",
    i, test.integral.Name, n, got, want, diff)
  }
 }
}
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// +build !noasm,!appengine,!safe

package f32

// AxpyUnitary is
//  for i, v := range x {
//   y[i] += alpha * v
//  }
func AxpyUnitary(alpha float32, x, y []float32)

// AxpyUnitaryTo is
//  for i, v := range x {
//   dst[i] = alpha*v + y[i]
//  }
func AxpyUnitaryTo(dst []float32, alpha float32, x, y []float32)

// AxpyInc is
//  for i := 0; i < int(n); i++ {
//   y[iy] += alpha * x[ix]
//   ix += incX
```

```
//   iy += incY
//  }
func AxpyInc(alpha float32, x, y []float32, n, incX, incY, ix, iy uintptr)

// AxpyIncTo is
//  for i := 0; i < int(n); i++ {
//   dst[idst] = alpha*x[ix] + y[iy]
//   ix += incX
//   iy += incY
//   idst += incDst
//  }
func AxpyIncTo(dst []float32, incDst, idst uintptr, alpha float32, x, y []float32, n, incX, incY, ix, iy uintptr)

// DdotUnitary is
//  for i, v := range x {
//   sum += float64(y[i]) *
 float64(v)
//  }
//  return
func DdotUnitary(x, y []float32) (sum float64)

// DdotInc is
//  for i := 0; i < int(n); i++ {
//   sum += float64(y[iy]) * float64(x[ix])
//   ix += incX
//   iy += incY
//  }
//  return
func DdotInc(x, y []float32, n, incX, incY, ix, iy uintptr) (sum float64)

// DotUnitary is
//  for i, v := range x {
//   sum += y[i] * v
//  }
//  return sum
func DotUnitary(x, y []float32) (sum float32)

// DotInc is
//  for i := 0; i < int(n); i++ {
//   sum += y[iy] * x[ix]
//   ix += incX
//   iy += incY
//  }
//  return sum
func DotInc(x, y []float32, n, incX, incY, ix, iy uintptr) (sum float32)
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```

```
package distuv_test

import (
 "fmt"

 "gonum.org/v1/gonum/stat"
 "gonum.org/v1/gonum/stat/distuv"
)

func ExampleNormal() {
 // Create a normal distribution
 dist := distuv.Normal{
  Mu:    2,
  Sigma: 5,
 }

 data := make([]float64, 1e5)

 // Draw some random values from the standard normal distribution
 for i := range data {
  data[i] = dist.Rand()
 }

 mean, std := stat.MeanStdDev(data, nil)
 meanErr := stat.StdErr(std, float64(len(data)))

 fmt.Printf("mean= %1.1f  %0.1v\n", mean, meanErr)

 // Output:
 // mean= 2.0  0.02
}
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// +build noasm appengine safe

package layout

// Change the testdata path for calculations done without assembly kernels.
func init() {
 tag = "_noasm"
}
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```

```
package gonum

import "math"

// Dlapy2 is the LAPACK version of math.Hypot.
//
// Dlapy2 is an internal routine. It is exported for testing purposes.
func (Implementation) Dlapy2(x, y float64) float64 {
 return math.Hypot(x, y)
}
```

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```
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// +build !amd64 noasm appengine safe

package f64

// AxpyUnitary is
//  for i, v := range x {
//   y[i] += alpha * v
//  }
func AxpyUnitary(alpha float64, x, y []float64) {
 for i, v := range x {
```

```
  y[i] += alpha * v
 }
}

// AxpyUnitaryTo is
//  for i, v := range x {
//   dst[i] = alpha*v + y[i]
//  }
func AxpyUnitaryTo(dst []float64, alpha float64, x, y []float64) {
 for i, v := range x {
  dst[i] = alpha*v + y[i]
 }
}

// AxpyInc is
//  for i := 0; i < int(n); i++ {
//   y[iy] += alpha * x[ix]
//   ix += incX
//   iy += incY
//  }
func AxpyInc(alpha float64, x, y []float64, n, incX, incY, ix, iy uintptr) {
 for i := 0; i < int(n); i++ {
  y[iy] += alpha * x[ix]
  ix += incX
  iy += incY
 }
}

// AxpyIncTo is
//  for i := 0; i < int(n); i++ {
//   dst[idst] = alpha*x[ix] + y[iy]
//   ix += incX
//   iy += incY
//   idst +=
 incDst
//  }
func AxpyIncTo(dst []float64, incDst, idst uintptr, alpha float64, x, y []float64, n, incX, incY, ix, iy uintptr) {
 for i := 0; i < int(n); i++ {
  dst[idst] = alpha*x[ix] + y[iy]
  ix += incX
  iy += incY
  idst += incDst
 }
}
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```

```
package testblas

import (
 "testing"

 "gonum.org/v1/gonum/blas"
)

type Zhpr2er interface {
 Zhpr2(uplo blas.Uplo, n int, alpha complex128, x []complex128, incX int, y []complex128, incY int, ap
[]complex128)
}

func Zhpr2Test(t *testing.T, impl Zhpr2er) {
 for tc, test := range zher2TestCases {
  n := len(test.x)
  incX := test.incX
  incY := test.incY
  for _, uplo := range []blas.Uplo{blas.Upper, blas.Lower} {
   x := makeZVector(test.x, incX)
   xCopy := make([]complex128, len(x))
   copy(xCopy, x)

   y := makeZVector(test.y, incY)
   yCopy := make([]complex128, len(y))
   copy(yCopy, y)

   ap := zPack(uplo, n, test.a, n)
   impl.Zhpr2(uplo, n, test.alpha, x, incX, y, incY, ap)
   a := zUnpackAsHermitian(uplo, n, ap)

   if !zsame(x, xCopy) {
    t.Errorf("Case %v (uplo=%v,incX=%v,incY=%v): unexpected modification of x",
 tc, uplo, incX, incY)
   }
   if !zsame(y, yCopy) {
    t.Errorf("Case %v (uplo=%v,incX=%v,incY=%v): unexpected modification of y", tc, uplo, incX, incY)
   }
   if !zsame(test.want, a) {
    t.Errorf("Case %v (uplo=%v,incX=%v,incY=%v): unexpected result\nwant: %v\ngot:  %v", tc, uplo, incX, incY,
test.want, a)
   }
  }
 }
}
# This source code was written by the Go contributors.
# The master list of contributors is in the main Go distribution,
# visible at http://tip.golang.org/CONTRIBUTORS.
```

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package gonum
//** github.com/losinggeneration/geojson@v0.0.0-20160627001320-09bc167a825e **//

{{Types "CC-BY-SA-4.0"}}

Unit test JSON examples:
Most unit test examples are taken from the GeoJSON spec Rev 1.0 at
http://geojson.org/geojson-spec.html
Authors Howard Butler (Hobu Inc.), Martin Daly (Cadcorp), Allan Doyle (MIT), Sean Gillies (UNC-Chapel Hill), Tim Schaub (OpenGeo), Christopher Schmidt (MetaCarta)
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Unit test JSON examples are thus licensed under a
Creative Commons Attribution 3.0 United States License
http://creativecommons.org/licenses/by/3.0/us/
package window

var PlatformHandle *Handle

type Handle struct {
 // JVM is the JNI *JVM pointer.
 JVM uintptr
 // Context is a global reference to the application's
 // android.content.Context instance.
 Context uintptr
}
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// Package f32 provides float32 vector primitives.
package f32 // import "gonum.org/v1/gonum/internal/asm/f32"
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// license that can be found in the LICENSE file.

package distuv

// Parameter represents a parameter of a probability distribution
type Parameter struct {
 Name string
 Value float64
}

```
var (
 badPercentile = "distuv: percentile out of bounds"
 badLength     = "distuv: slice length mismatch"
 badSuffStat   = "distuv: wrong suffStat length"
 badNoSamples  = "distuv: must have at least one sample"
)

const (
 expNegOneHalf   = 0.6065306597126334236037995349911804534419 // https://oeis.org/A092605
 eulerMascheroni = 0.5772156649015328606065120900824024310421 // https://oeis.org/A001620
 apery           = 1.2020569031595942853997381615114499907649 // https://oeis.org/A002117
)
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// Package gen provides random graph generation functions.
package gen // import "gonum.org/v1/gonum/graph/graphs/gen"
// This file is dual licensed under CC0 and The gonum license.
//
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//
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// Universal Public Domain Dedication.

//go:generate ./makeinternal.bash

package dot

import (
 "fmt"
 "io"
 "io/ioutil"

 "gonum.org/v1/gonum/graph/formats/dot/ast"
 "gonum.org/v1/gonum/graph/formats/dot/internal/lexer"
 "gonum.org/v1/gonum/graph/formats/dot/internal/parser"
)

// ParseFile parses the given Graphviz DOT file into an AST.
func ParseFile(path string) (*ast.File, error) {
 buf, err := ioutil.ReadFile(path)
 if err != nil {
  return nil, err
 }
```

```
 return ParseBytes(buf)
}

// Parse parses the given Graphviz DOT file into an AST, reading from r.
func Parse(r io.Reader) (*ast.File, error) {
 buf, err := ioutil.ReadAll(r)
 if err != nil {
  return nil, err
 }
 return
 ParseBytes(buf)
}

// ParseBytes parses the given Graphviz DOT file into an AST, reading from b.
func ParseBytes(b []byte) (*ast.File, error) {
 l := lexer.NewLexer(b)
 p := parser.NewParser()
 file, err := p.Parse(l)
 if err != nil {
  return nil, err
 }
 f, ok := file.(*ast.File)
 if !ok {
  return nil, fmt.Errorf("invalid file type; expected *ast.File, got %T", file)
 }
 if err := check(f); err != nil {
  return nil, err
 }
 return f, nil
}

// ParseString parses the given Graphviz DOT file into an AST, reading from s.
func ParseString(s string) (*ast.File, error) {
 return ParseBytes([]byte(s))
}
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// Package distmv provides multivariate random distribution types.
package distmv // import "gonum.org/v1/gonum/stat/distmv"
# Contributing to Go

Go is an open source project.

It is the work of hundreds of contributors. We appreciate your help!

## Filing issues
```

When [filing an issue](https://golang.org/issue/new), make sure to answer these five questions:

1. What version of Go are you using (`go version`)?
2. What operating system and processor architecture are you using?
3. What did you do?
4. What did you expect to see?
5. What did you see instead?

General questions should go to the [golang-nuts mailing list](https://groups.google.com/group/golang-nuts) instead of the issue tracker.
The gophers there will answer or ask you to file an issue if you've tripped over a bug.

Contributing code

Please read the [Contribution Guidelines](https://golang.org/doc/contribute.html)
before sending patches.

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the BSD-style license found in the LICENSE file.

```
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// +build !bounds

package barneshut

const checkBounds = false
```

```
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package testblas

import (
 "testing"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/floats"
)

type Dspmver interface {
 Dspmv(ul blas.Uplo, n int, alpha float64, ap []float64, x []float64, incX int, beta float64, y []float64, incY int)
}

func DspmvTest(t *testing.T, blasser Dspmver) {
 for i, test := range []struct {
```

```
 ul    blas.Uplo
 n     int
 a     [][]float64
 x     []float64
 y     []float64
 alpha float64
 beta  float64
 ans   []float64
}{
 {
  ul: blas.Upper,
  n:  3,
  a: [][]float64{
   {5, 6, 7},
   {0, 8, 10},
   {0, 0, 13},
  },
  x:     []float64{3, 4, 5},
  y:     []float64{6, 7, 8},
  alpha: 2.1,
  beta:  -3,
  ans:   []float64{137.4, 189, 240.6},
 },
 {
  ul: blas.Lower,
  n:  3,
  a: [][]float64{
   {5, 0, 0},
   {6, 8, 0},
   {7, 10, 13},
  },
  x:     []float64{3, 4, 5},
  y:
    []float64{6, 7, 8},
  alpha: 2.1,
  beta:  -3,
  ans:   []float64{137.4, 189, 240.6},
 },
} {
 incTest := func(incX, incY, extra int) {
  x := makeIncremented(test.x, incX, extra)
  y := makeIncremented(test.y, incY, extra)
  aFlat := flattenTriangular(test.a, test.ul)
  ans := makeIncremented(test.ans, incY, extra)

  blasser.Dspmv(test.ul, test.n, test.alpha, aFlat, x, incX, test.beta, y, incY)
  if !floats.EqualApprox(ans, y, 1e-14) {
   t.Errorf("Case %v, incX=%v, incY=%v: Want %v, got %v.", i, incX, incY, ans, y)
```

```
  }
 }
 incTest(1, 1, 0)
 incTest(2, 3, 0)
 incTest(3, 2, 0)
 incTest(-3, 2, 0)
 incTest(-2, 4, 0)
 incTest(2, -1, 0)
 incTest(-3, -4, 3)
 }
}
//** github.com/ipld/go-ipld-adl-hamt@v0.0.0-20201125163904-25abfe77c0bc **//
```

{{Types "Apache-2.0 MIT"}}

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governing permissions and limitations under that License.

```
<!--- SPDX-License-Identifier: Apache-2.0 OR MIT -->
`SPDX-License-Identifier: Apache-2.0 OR MIT`
build: off

clone_folder: c:\gopath\src\gonum.org\v1\gonum

cache:
 - '%LocalAppData%\go-build'

branches:
 only:
   - master

environment:
 # Do not move these lines; they are referred to by README.md.
 # Versions of go that are explicitly supported by gonum.
 matrix:
   - GOROOT: 'c:\go112'
   #- GOROOT: 'c:\go113'
 GOPATH: c:\gopath
 GOTOOLDIR: '%GOROOT%\pkg\tool\windows_amd64'
```

```
 PATH: '%GOPATH%\bin;%GOROOT%\bin;%PATH%'

build_script:
 - "%GOROOT%\\bin\\go version"
 - "%GOROOT%\\bin\\go get -v -t ./..."

test_script:
 - "%GOROOT%\\bin\\go test ./..."
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "fmt"
 "testing"
)

func TestResistanceFormat(t *testing.T) {
 for _, test := range []struct {
  value  Resistance
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 "},
  {1.23456789, "%.1v", "1 "},
  {1.23456789, "%20.1v", "                   1 "},
  {1.23456789, "%20v", "        1.23456789 "},
  {1.23456789, "%1v", "1.23456789 "},
  {1.23456789, "%#v", "unit.Resistance(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Resistance=1.23456789 )"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
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// +build !appengine,!safe

package mat
```

```
import "unsafe"

// offset returns the number of float64 values b[0] is after a[0].
func offset(a, b []float64) int {
 if &a[0] == &b[0] {
  return 0
 }
 // This expression must be atomic with respect to GC moves.
 // At this stage this is true, because the GC does not
 // move. See https://golang.org/issue/12445.
 return int(uintptr(unsafe.Pointer(&b[0]))-uintptr(unsafe.Pointer(&a[0]))) / int(unsafe.Sizeof(float64(0)))
}

// offsetComplex returns the number of complex128 values b[0] is after a[0].
func offsetComplex(a, b []complex128) int {
 if &a[0] == &b[0] {
  return 0
 }
 // This expression must be atomic with respect to GC moves.
 // At this stage this is true, because the GC does not
 // move. See https://golang.org/issue/12445.
 return int(uintptr(unsafe.Pointer(&b[0]))-uintptr(unsafe.Pointer(&a[0])))
 / int(unsafe.Sizeof(complex128(0)))
}
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// Package encoding provides a common graph encoding API.
package encoding // import "gonum.org/v1/gonum/graph/encoding"
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```

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```
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package quat

import "math"

// Abs returns the absolute value (also called the modulus) of q.
func Abs(q Number) float64 {
 // Special cases.
 switch {
 case IsInf(q):
  return math.Inf(1)
 case IsNaN(q):
  return math.NaN()
 }

 r, i, j, k := q.Real, q.Imag, q.Jmag, q.Kmag
 if r < 0 {
  r = -r
 }
 if i < 0 {
  i = -i
 }
 if j < 0 {
  j = -j
 }
 if k < 0 {
  k = -k
 }
 if r < i {
  r, i = i, r
 }
 if r < j {
```

```
 r, j = j, r
 }
 if r < k {
  r, k = k, r
 }
 if r == 0 {
  return 0
 }
 i /= r
 j /= r
 k /= r
 return r * math.Sqrt(1+i*i+j*j+k*k)
}
```

Gio

Immediate mode GUI programs in Go for Android, iOS, macOS, Linux, FreeBSD, Windows, and WebAssembly (experimental). See gioui.org for details and documentation.

[![builds.sr.ht status](https://builds.sr.ht/~eliasnaur/gio.svg)](https://builds.sr.ht/~eliasnaur/gio)

Issues

File bugs and TODOs through the [issue tracker](https://todo.sr.ht/~eliasnaur/gio) or send an email to ~eliasnaur/gio@todo.sr.ht. For general discussion, use the mailing list: ~eliasnaur/gio@lists.sr.ht.

Contributing

Post discussion to the [mailing list](https://lists.sr.ht/~eliasnaur/gio) and patches to [gio-patches](https://lists.sr.ht/~eliasnaur/gio-patches). No Sourcehut account is required and you can post without being subscribed.

See the [contribution guide](https://gioui.org/doc/contribute) for more details.

```
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// license that can be found in the LICENSE file.

// +build !noasm,!appengine,!safe

package f32

// Ger performs the rank-one operation
//  A += alpha * x * y
// where A is an mn dense matrix, x and y are vectors, and alpha is a scalar.
func Ger(m, n uintptr, alpha float32,
 x []float32, incX uintptr,
 y []float32, incY uintptr,
```

```
 a []float32, lda uintptr)
// Copyright 2019 The Gonum Authors. All rights reserved.
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// license that can be found in the LICENSE file.

package mat_test

import (
 "fmt"

 "gonum.org/v1/gonum/blas/blas64"
 "gonum.org/v1/gonum/mat"
)

// This example shows how simple user types can be constructed to
// implement basic vector functionality within the mat package.
func Example_userVectors() {
 // Perform the cross product of [1 2 3 4] and [1 2 3].
 r := row{1, 2, 3, 4}
 c := column{1, 2, 3}

 var m mat.Dense
 m.Mul(c, r)

 fmt.Println(mat.Formatted(&m))

 // Output:
 //
 //  1   2   3   4
 //  2   4   6   8
 //  3   6   9  12
}

// row is a user-defined row vector.
type row []float64

// Dims, At and T minimally satisfy the mat.Matrix interface.
func (v row) Dims() (r, c int)    { return 1, len(v) }
func (v row) At(_, j int) float64 { return v[j] }
func (v row) T() mat.Matrix       { return column(v) }

// RawVector allows fast path computation with the vector.
func
 (v row) RawVector() blas64.Vector {
 return blas64.Vector{N: len(v), Data: v, Inc: 1}
}

// column is a user-defined column vector.
```

```
type column []float64

// Dims, At and T minimally satisfy the mat.Matrix interface.
func (v column) Dims() (r, c int)    { return len(v), 1 }
func (v column) At(i, _ int) float64 { return v[i] }
func (v column) T() mat.Matrix       { return row(v) }

// RawVector allows fast path computation with the vector.
func (v column) RawVector() blas64.Vector {
 return blas64.Vector{N: len(v), Data: v, Inc: 1}
}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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// license that can be found in the LICENSE file.

package unit

import (
 "fmt"
 "testing"
)

func TestAccelerationFormat(t *testing.T) {
 for _, test := range []struct {
  value  Acceleration
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 m s^-2"},
  {1.23456789, "%.1v", "1 m s^-2"},
  {1.23456789, "%20.1v", "            1 m s^-2"},
  {1.23456789, "%20v", "   1.23456789 m s^-2"},
  {1.23456789, "%1v", "1.23456789 m s^-2"},
  {1.23456789, "%#v", "unit.Acceleration(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Acceleration=1.23456789 m s^-2)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
// SPDX-License-Identifier: Unlicense OR MIT

package gpu
```

```
import (
 "time"

 "gioui.org/app/internal/gl"
)

type timers struct {
 ctx    *context
 timers []*timer
}

type timer struct {
 Elapsed time.Duration
 ctx     *context
 obj     gl.Query
 state   timerState
}

type timerState uint8

const (
 timerIdle timerState = iota
 timerRunning
 timerWaiting
)

func newTimers(ctx *context) *timers {
 return &timers{
  ctx: ctx,
 }
}

func (t *timers) newTimer() *timer {
 if t == nil {
  return nil
 }
 tt := &timer{
  ctx: t.ctx,
  obj: t.ctx.CreateQuery(),
 }
 t.timers = append(t.timers, tt)
 return tt
}

func (t *timer) begin() {
 if t == nil || t.state != timerIdle {
  return
 }
```

```
 t.ctx.BeginQuery(gl.TIME_ELAPSED_EXT, t.obj)
 t.state = timerRunning
}

func (t *timer) end() {
 if t == nil || t.state != timerRunning {
  return
 }
 t.ctx.EndQuery(gl.TIME_ELAPSED_EXT)
 t.state = timerWaiting
}

func (t *timers) ready() bool {
 if t == nil {
  return false
 }
 for _, tt := range t.timers {
  if
 tt.state != timerWaiting {
   return false
  }
  if t.ctx.GetQueryObjectuiv(tt.obj, gl.QUERY_RESULT_AVAILABLE) == 0 {
   return false
  }
 }
 for _, tt := range t.timers {
  tt.state = timerIdle
  nanos := t.ctx.GetQueryObjectuiv(tt.obj, gl.QUERY_RESULT)
  tt.Elapsed = time.Duration(nanos)
 }
 return t.ctx.GetInteger(gl.GPU_DISJOINT_EXT) == 0
}

func (t *timers) release() {
 if t == nil {
  return
 }
 for _, tt := range t.timers {
  t.ctx.DeleteQuery(tt.obj)
 }
 t.timers = nil
}
// SPDX-License-Identifier: Unlicense OR MIT

/*
Package layout implements layouts common to GUI programs.

Constraints and dimensions
```

Constraints and dimensions form the interface between layouts and
interface child elements. This package operates on Widgets, functions
that compute Dimensions from a a set of constraints for acceptable
widths and heights. Both the constraints and dimensions are maintained
in an implicit Context to keep the Widget declaration short.

For example, to add space above a widget:

```
 gtx := layout.NewContext(...)
 gtx.Reset(...)

 // Configure a top inset.
 inset := layout.Inset{Top: unit.Dp(8), ...}
 // Use the inset to lay out a widget.
 inset.Layout(gtx, func() {
  // Lay out widget and determine its size given the constraints.
  ...
  dims := layout.Dimensions{...}
  gtx.Dimensions = dims
 })
```

Note that the example does not generate any garbage even though the
Inset is transient. Layouts that don't accept user input are designed
to not escape to the heap during
 their use.

Layout operations are recursive: a child in a layout operation can
itself be another layout. That way, complex user interfaces can
be created from a few generic layouts.

This example both aligns and insets a child:

```
 inset := layout.Inset{...}
 inset.Layout(gtx, func() {
  align := layout.Align(...)
  align.Layout(gtx, func() {
   widget.Layout(gtx, ...)
  })
 })
```

More complex layouts such as Stack and Flex lay out multiple children,
and stateful layouts such as List accept user input.

*/
package layout
Go Time

This repository provides supplementary Go time packages.

Download/Install

The easiest way to install is to run `go get -u golang.org/x/time`. You can
also manually git clone the repository to `$GOPATH/src/golang.org/x/time`.

Report Issues / Send Patches

This repository uses Gerrit for code changes. To learn how to submit changes to
this repository, see https://golang.org/doc/contribute.html.

The main issue tracker for the time repository is located at
https://github.com/golang/go/issues. Prefix your issue with "x/time:" in the
subject line, so it is easy to find.

```
// Copyright 2019 The Gonum Authors. All rights reserved.
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// license that can be found in the LICENSE file.

package layout

import (
 "gonum.org/v1/gonum/graph"
 "gonum.org/v1/gonum/spatial/r2"
)

// GraphR2 is a graph with planar spatial representation of node positions.
type GraphR2 interface {
 graph.Graph
 LayoutNodeR2(id int64) NodeR2
}

// NodeR2 is a graph node with planar spatial representation of its position.
// A NodeR2 is only valid when the graph.Node is not nil.
type NodeR2 struct {
 graph.Node
 Coord2 r2.Vec
}
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// license that can be found in the LICENSE file.

package gonum

import "math"

// Dlaqr1 sets v to a scalar multiple of the first column of the product
//  (H - (sr1 + i*si1)*I)*(H - (sr2 + i*si2)*I)
```

```
// where H is a 22 or 33 matrix, I is the identity matrix of the same size,
// and i is the imaginary unit. Scaling is done to avoid overflows and most
// underflows.
//
// n is the order of H and must be either 2 or 3. It must hold that either sr1 =
// sr2 and si1 = -si2, or si1 = si2 = 0. The length of v must be equal to n. If
// any of these conditions is not met, Dlaqr1 will panic.
//
// Dlaqr1 is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dlaqr1(n int, h []float64, ldh int, sr1, si1, sr2, si2 float64, v []float64) {
 switch {
 case n != 2 && n != 3:
  panic("lapack: n must be 2 or 3")
 case ldh < n:
  panic(badLdH)
 case len(h) < (n-1)*ldh+n:
  panic(shortH)
 case
 !((sr1 == sr2 && si1 == -si2) || (si1 == 0 && si2 == 0)):
  panic(badShifts)
 case len(v) != n:
  panic(shortV)
 }

 if n == 2 {
  s := math.Abs(h[0]-sr2) + math.Abs(si2) + math.Abs(h[ldh])
  if s == 0 {
   v[0] = 0
   v[1] = 0
  } else {
   h21s := h[ldh] / s
   v[0] = h21s*h[1] + (h[0]-sr1)*((h[0]-sr2)/s) - si1*(si2/s)
   v[1] = h21s * (h[0] + h[ldh+1] - sr1 - sr2)
  }
  return
 }

 s := math.Abs(h[0]-sr2) + math.Abs(si2) + math.Abs(h[ldh]) + math.Abs(h[2*ldh])
 if s == 0 {
  v[0] = 0
  v[1] = 0
  v[2] = 0
 } else {
  h21s := h[ldh] / s
  h31s := h[2*ldh] / s
  v[0] = (h[0]-sr1)*((h[0]-sr2)/s) - si1*(si2/s) + h[1]*h21s + h[2]*h31s
  v[1] = h21s*(h[0]+h[ldh+1]-sr1-sr2) + h[ldh+2]*h31s
  v[2] = h31s*(h[0]+h[2*ldh+2]-sr1-sr2) + h21s*h[2*ldh+1]
```

```
 }
}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "fmt"
 "testing"
)

func TestMagneticFluxDensityFormat(t *testing.T) {
 for _, test := range []struct {
  value  MagneticFluxDensity
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 T"},
  {1.23456789, "%.1v", "1 T"},
  {1.23456789, "%20.1v", "                   1 T"},
  {1.23456789, "%20v", "        1.23456789 T"},
  {1.23456789, "%1v", "1.23456789 T"},
  {1.23456789, "%#v", "unit.MagneticFluxDensity(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.MagneticFluxDensity=1.23456789 T)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
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// Package quad provides numerical evaluation of definite integrals of single-variable functions.
//
package quad // import "gonum.org/v1/gonum/integrate/quad"
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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```

```
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package unit

import (
 "errors"
 "fmt"
 "math"
 "unicode/utf8"
)

// Length represents a length in metres.
type Length float64

const Metre Length = 1

// Unit converts the Length to a *Unit
func (l Length) Unit() *Unit {
 return New(float64(l), Dimensions{
  LengthDim: 1,
 })
}

// Length allows Length to implement a Lengther interface
func (l Length) Length() Length {
 return l
}

// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (l *Length) From(u Uniter) error {
 if !DimensionsMatch(u, Metre) {
  *l = Length(math.NaN())
  return errors.New("Dimension mismatch")
 }
 *l = Length(u.Unit().Value())
 return nil
}

func (l Length) Format(fs fmt.State, c rune) {
 switch c {
 case 'v':
  if fs.Flag('#')
  {
   fmt.Fprintf(fs, "%T(%v)", l, float64(l))
   return
  }
```

```
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " m"
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(l))
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(l))
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(l))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(l))
  }
  fmt.Fprint(fs, unit)
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g m)", c, l, float64(l))
 }
}
// SPDX-License-Identifier: Unlicense OR MIT

// +build linux,!android,!nox11 freebsd

package window

import (
 "unsafe"

 "gioui.org/app/internal/egl"
)

type x11Context struct {
 win *x11Window
 *egl.Context
}

func (w *x11Window) NewContext() (Context, error) {
 disp := egl.NativeDisplayType(unsafe.Pointer(w.display()))
 ctx, err := egl.NewContext(disp)
 if err != nil {
  return nil, err
 }
 return &x11Context{win: w, Context: ctx}, nil
}

func (c *x11Context) Release() {
 if c.Context != nil {
```

```
  c.Context.Release()
  c.Context = nil
 }
}

func (c *x11Context) MakeCurrent() error {
 c.Context.ReleaseSurface()
 win, width, height := c.win.window()
 eglSurf := egl.NativeWindowType(uintptr(win))
 if err := c.Context.CreateSurface(eglSurf, width, height); err != nil {
  return err
 }
 if err := c.Context.MakeCurrent(); err != nil {
  return err
 }
 c.Context.EnableVSync(true)
 return nil
}

func (c *x11Context) Lock() {}

func (c *x11Context) Unlock() {}
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// +build gofuzz

package fuzz

import (
 "bytes"
 "os/exec"

 "gonum.org/v1/gonum/graph/formats/dot"
)

// Fuzz implements the fuzzing function required for go-fuzz.
//
// See documentation at https://github.com/dvyukov/go-fuzz.
func Fuzz(data []byte) int {
 // We don't accept empty data; the dot command does.
 if len(data) == 0 || bytes.Equal(data, []byte{0}) {
  return -1
 }

 // Check that dot accepts the input without complaint.
 cmd := exec.Command("dot")
```

```
 cmd.Stdin = bytes.NewReader(data)
 err := cmd.Run()
 if err != nil {
  return 0
 }

 // Try to parse the data.
 _, err = dot.Parse(bytes.NewReader(data))
 if err != nil {
  panic("could not parse good dot")
 }
 return 1
}
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// Package cblas64 provides a simple interface to the complex64 BLAS API.
package cblas64 // import "gonum.org/v1/gonum/blas/cblas64"
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// Package blas64 provides a simple interface to the float64 BLAS API.
package blas64 // import "gonum.org/v1/gonum/blas/blas64"
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package fd

import (
 "gonum.org/v1/gonum/floats"
 "gonum.org/v1/gonum/mat"
)

// ConstFunc is a constant function returning the value held by the type.
type ConstFunc float64

func (c ConstFunc) Func(x []float64) float64 {
 return float64(c)
}

func (c ConstFunc) Grad(grad, x []float64) {
 for i := range grad {
  grad[i] = 0
 }
}
```

```
func (c ConstFunc) Hess(dst mat.MutableSymmetric, x []float64) {
 n := len(x)
 for i := 0; i < n; i++ {
  for j := i; j < n; j++ {
   dst.SetSym(i, j, 0)
  }
 }
}

// LinearFunc is a linear function returning w*x+c.
type LinearFunc struct {
 w []float64
 c float64
}

func (l LinearFunc) Func(x []float64) float64 {
 return floats.Dot(l.w, x) + l.c
}

func (l LinearFunc) Grad(grad, x []float64) {
 copy(grad, l.w)
}

func (l LinearFunc) Hess(dst mat.MutableSymmetric, x []float64) {
 n := len(x)
 for i
 := 0; i < n; i++ {
  for j := i; j < n; j++ {
   dst.SetSym(i, j, 0)
  }
 }
}

// QuadFunc is a quadratic function returning 0.5*x'*a*x + b*x + c.
type QuadFunc struct {
 a *mat.SymDense
 b *mat.VecDense
 c float64
}

func (q QuadFunc) Func(x []float64) float64 {
 v := mat.NewVecDense(len(x), x)
 var tmp mat.VecDense
 tmp.MulVec(q.a, v)
 return 0.5*mat.Dot(&tmp, v) + mat.Dot(q.b, v) + q.c
}
```

```
func (q QuadFunc) Grad(grad, x []float64) {
 var tmp mat.VecDense
 v := mat.NewVecDense(len(x), x)
 tmp.MulVec(q.a, v)
 for i := range grad {
  grad[i] = tmp.At(i, 0) + q.b.At(i, 0)
 }
}

func (q QuadFunc) Hess(dst mat.MutableSymmetric, x []float64) {
 n := len(x)
 for i := 0; i < n; i++ {
  for j := i; j < n; j++ {
   dst.SetSym(i, j, q.a.At(i, j))
  }
 }
}
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package mathext

import (
 "testing"

 "gonum.org/v1/gonum/floats"
)

func TestNormalQuantile(t *testing.T) {
 // Values from https://www.johndcook.com/blog/normal_cdf_inverse/
 p := []float64{
  0.0000001,
  0.00001,
  0.001,
  0.05,
  0.15,
  0.25,
  0.35,
  0.45,
  0.55,
  0.65,
  0.75,
  0.85,
  0.95,
  0.999,
  0.99999,
  0.9999999,
```

```
 }
 ans := []float64{
  -5.199337582187471,
  -4.264890793922602,
  -3.090232306167813,
  -1.6448536269514729,
  -1.0364333894937896,
  -0.6744897501960817,
  -0.38532046640756773,
  -0.12566134685507402,
  0.12566134685507402,
  0.38532046640756773,
  0.6744897501960817,
  1.0364333894937896,
  1.6448536269514729,
  3.090232306167813,
  4.264890793922602,
  5.199337582187471,
 }
 for i, v := range p {
  got := NormalQuantile(v)
  if !floats.EqualWithinAbsOrRel(got, ans[i], 1e-10, 1e-10) {
   t.Errorf("Quantile
 mismatch. Case %d, want: %v, got: %v", i, ans[i], got)
  }
 }
}

var nqtmp float64

func BenchmarkNormalQuantile(b *testing.B) {
 ps := make([]float64, 1000) // ensure there are small values
 floats.Span(ps, 0, 1)
 for i := 0; i < b.N; i++ {
  for _, v := range ps {
   nqtmp = NormalQuantile(v)
  }
 }
}
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package mathext

import (
 "math"
 "testing"
```

```
)

func TestZeta(t *testing.T) {
 for i, test := range []struct {
  x, q, want float64
 }{
  // Results computed using scipy.special.zeta
  {1, 1, math.Inf(1)},
  {1.00001, 0.5, 100001.96352290553},
  {1.0001, 25, 9996.8017690244506},
  {1.001, 1, 1000.5772884760117},
  {1.01, 10, 97.773405639173305},
  {1.5, 2, 1.6123753486854886},
  {1.5, 20, 0.45287361712938717},
  {2, -0.7, 14.28618087263834},
  {2.5, 0.5, 6.2471106345688137},
  {5, 2.5, 0.013073166646113805},
  {7.5, 5, 7.9463377443314306e-06},
  {10, -0.5, 2048.0174503557578},
  {10, 0.5, 1024.0174503557578},
  {10, 7.5, 2.5578265694201971e-9},
  {12, 2.5, 1.7089167198843551e-5},
  {17, 0.5, 131072.00101513157},
  {20, -2.5, 2097152.0006014798},
  {20, 0.75, 315.3368689825316},
  {25, 0.25, 1125899906842624.0},
  {30, 1, 1.0000000009313275},
 }
 {
  if got := Zeta(test.x, test.q); math.Abs(got-test.want) > 1e-10 {
   t.Errorf("test %d Zeta(%g, %g) failed: got %g want %g", i, test.x, test.q, got, test.want)
  }
 }
}
// Code generated by "go generate gonum.org/v1/gonum/blas/gonum; DO NOT EDIT.

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package gonum

import (
 "gonum.org/v1/gonum/internal/asm/f32"
)

// Sdot computes the dot product of the two vectors
//  \sum_i x[i]*y[i]
```

```
//
// Float32 implementations are autogenerated and not directly tested.
func (Implementation) Sdot(n int, x []float32, incX int, y []float32, incY int) float32 {
 if incX == 0 {
  panic(zeroIncX)
 }
 if incY == 0 {
  panic(zeroIncY)
 }
 if n <= 0 {
  if n == 0 {
   return 0
  }
  panic(nLT0)
 }
 if incX == 1 && incY == 1 {
  if len(x) < n {
   panic(shortX)
  }
  if len(y) < n {
   panic(shortY)
  }
  return f32.DotUnitary(x[:n], y[:n])
 }
 var ix, iy int
 if incX < 0 {
  ix = (-n + 1) * incX
 }
 if incY < 0 {
  iy = (-n + 1) * incY
 }
 if ix >= len(x) || ix+(n-1)*incX >= len(x) {
  panic(shortX)
 }
 if iy >= len(y)
 || iy+(n-1)*incY >= len(y) {
  panic(shortY)
 }
 return f32.DotInc(x, y, uintptr(n), uintptr(incX), uintptr(incY), uintptr(ix), uintptr(iy))
}
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package r3

// Vec is a 3D vector.
type Vec struct {
```

```
 X, Y, Z float64
}

// Add returns the vector sum of p and q.
func (p Vec) Add(q Vec) Vec {
 p.X += q.X
 p.Y += q.Y
 p.Z += q.Z
 return p
}

// Sub returns the vector sum of p and -q.
func (p Vec) Sub(q Vec) Vec {
 p.X -= q.X
 p.Y -= q.Y
 p.Z -= q.Z
 return p
}

// Scale returns the vector p scaled by f.
func (p Vec) Scale(f float64) Vec {
 p.X *= f
 p.Y *= f
 p.Z *= f
 return p
}

// Box is a 3D bounding box.
type Box struct {
 Min, Max Vec
}
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package gonum

// Iladlc scans a matrix for its last non-zero column. Returns -1 if the matrix
// is all zeros.
//
// Iladlc is an internal routine. It is exported for testing purposes.
func (Implementation) Iladlc(m, n int, a []float64, lda int) int {
 switch {
 case m < 0:
  panic(mLT0)
 case n < 0:
  panic(nLT0)
 case lda < max(1, n):
```

```
 panic(badLdA)
}

if n == 0 || m == 0 {
 return -1
}

if len(a) < (m-1)*lda+n {
 panic(shortA)
}

// Test common case where corner is non-zero.
if a[n-1] != 0 || a[(m-1)*lda+(n-1)] != 0 {
 return n - 1
}

// Scan each row tracking the highest column seen.
highest := -1
for i := 0; i < m; i++ {
 for j := n - 1; j >= 0; j-- {
  if a[i*lda+j] != 0 {
   highest = max(highest, j)
   break
  }
 }
}
return highest
}
//**
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**//

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```
package mat_test

import (
 "fmt"

 "gonum.org/v1/gonum/mat"
)

func ExampleSymDense_SubsetSym() {
 n := 5
 s := mat.NewSymDense(5, nil)
 count := 1.0
 for i := 0; i < n; i++ {
  for j := i; j < n; j++ {
   s.SetSym(i, j, count)
   count++
  }
 }
 fmt.Println("Original matrix:")
 fmt.Printf("%0.4v\n\n", mat.Formatted(s))

 // Take the subset {0, 2, 4}
 var sub mat.SymDense
 sub.SubsetSym(s, []int{0, 2, 4})
 fmt.Println("Subset {0, 2, 4}")
 fmt.Printf("%0.4v\n\n", mat.Formatted(&sub))

 // Take the subset {0, 0, 4}
 sub.SubsetSym(s, []int{0, 0, 4})
 fmt.Println("Subset {0, 0, 4}")
 fmt.Printf("%0.4v\n\n", mat.Formatted(&sub))

 // Output:
 // Original matrix:
 //  1   2   3   4   5
 //  2   6   7   8   9
 //  3   7  10  11  12
 //  4   8  11  13  14
 //  5   9  12  14  15
 //
 // Subset {0, 2, 4}
 //  1   3   5
 //  3  10  12
 //
  5  12  15
 //
 // Subset {0, 0, 4}
```

```
 //  1   1   5
 //  1   1   5
 //  5   5  15
}
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// Package graph defines graph interfaces.
//
// Routines to test contract compliance by user implemented graph types
// are available in gonum.org/v1/gonum/graph/testgraph.
package graph // import "gonum.org/v1/gonum/graph"
//** https://raw.githubusercontent.com/Workiva/ssllabs-go/v0.1.4/LICENSE **//

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// Package widget implements state tracking and event handling of
// common user interface controls. To draw widgets, use a theme
// packages such as package gioui.org/widget/material.
package widget
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package testblas
```

```
import (
 "testing"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/floats"
)

type Dsyr2er interface {
 Dsyr2(ul blas.Uplo, n int, alpha float64, x []float64, incX int, y []float64, incY int, a []float64, lda int)
}

func Dsyr2Test(t *testing.T, blasser Dsyr2er) {
 for i, test := range []struct {
  n     int
  a     [][]float64
  ul    blas.Uplo
  x     []float64
  y     []float64
  alpha float64
  ans   [][]float64
 }{
  {
   n: 3,
   a: [][]float64{
    {7, 2, 4},
    {0, 3, 5},
    {0, 0, 6},
   },
   x:     []float64{2, 3, 4},
   y:     []float64{5, 6, 7},
   alpha: 2,
   ul:    blas.Upper,
   ans: [][]float64{
    {47, 56, 72},
    {0, 75, 95},
    {0, 0, 118},
   },
  },
  {
   n: 3,
   a: [][]float64{
    {7, 0, 0},
    {2, 3, 0},
    {4, 5, 6},
   },
   x:     []float64{2, 3, 4},
   y:     []float64{5,
```

```
 6, 7},
  alpha: 2,
  ul:    blas.Lower,
  ans: [][]float64{
   {47, 0, 0},
   {56, 75, 0},
   {72, 95, 118},
  },
 },
} {
 incTest := func(incX, incY, extra int) {
  aFlat := flatten(test.a)
  x := makeIncremented(test.x, incX, extra)
  y := makeIncremented(test.y, incY, extra)
  blasser.Dsyr2(test.ul, test.n, test.alpha, x, incX, y, incY, aFlat, test.n)
  ansFlat := flatten(test.ans)
  if !floats.EqualApprox(aFlat, ansFlat, 1e-14) {
   t.Errorf("Case %v, incX = %v, incY = %v. Want %v, got %v.", i, incX, incY, ansFlat, aFlat)
  }
 }
 incTest(1, 1, 0)
 incTest(-2, 1, 0)
 incTest(-2, 3, 0)
 incTest(2, -3, 0)
 incTest(3, -2, 0)
 incTest(-3, -4, 0)
}
}
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package gonum

import (
 "math"

 "gonum.org/v1/gonum/blas/blas64"
)

// Drscl multiplies the vector x by 1/a being careful to avoid overflow or
// underflow where possible.
//
// Drscl is an internal routine. It is exported for testing purposes.
func (impl Implementation) Drscl(n int, a float64, x []float64, incX int) {
 switch {
 case n < 0:
  panic(nLT0)
```

```
 case incX <= 0:
  panic(badIncX)
 }

 // Quick return if possible.
 if n == 0 {
  return
 }

 if len(x) < 1+(n-1)*incX {
  panic(shortX)
 }

 bi := blas64.Implementation()

 cden := a
 cnum := 1.0
 smlnum := dlamchS
 bignum := 1 / smlnum
 for {
  cden1 := cden * smlnum
  cnum1 := cnum / bignum
  var mul float64
  var done bool
  switch {
  case cnum != 0 && math.Abs(cden1) > math.Abs(cnum):
   mul = smlnum
   done = false
   cden = cden1
  case math.Abs(cnum1) > math.Abs(cden):
   mul
 = bignum
   done = false
   cnum = cnum1
  default:
   mul = cnum / cden
   done = true
  }
  bi.Dscal(n, mul, x, incX)
  if done {
   break
  }
 }
}
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package opconst
```

```
type OpType byte

// Start at a high number for easier debugging.
const firstOpIndex = 200

const (
 TypeMacroDef OpType = iota + firstOpIndex
 TypeMacro
 TypeTransform
 TypeLayer
 TypeInvalidate
 TypeImage
 TypePaint
 TypeColor
 TypeArea
 TypePointerInput
 TypePass
 TypeKeyInput
 TypeHideInput
 TypePush
 TypePop
 TypeAux
 TypeClip
 TypeProfile
 TypeCall
)

const (
 TypeMacroDefLen     = 1 + 4 + 4
 TypeMacroLen        = 1 + 4 + 4
 TypeTransformLen    = 1 + 4*2
 TypeLayerLen        = 1
 TypeRedrawLen       = 1 + 8
 TypeImageLen        = 1
 TypePaintLen        = 1 + 4*4
 TypeColorLen        = 1 + 4
 TypeAreaLen         = 1 + 1 + 4*4
 TypePointerInputLen = 1 + 1
 TypePassLen         = 1 + 1
 TypeKeyInputLen     = 1 + 1
 TypeHideInputLen    = 1
 TypePushLen         = 1
 TypePopLen          = 1
 TypeAuxLen          = 1
 TypeClipLen         = 1 + 4*4
 TypeProfileLen      = 1
 TypeCallLen         = 1
)
```

```
func (t OpType) Size() int {
 return
 [...]int{
  TypeMacroDefLen,
  TypeMacroLen,
  TypeTransformLen,
  TypeLayerLen,
  TypeRedrawLen,
  TypeImageLen,
  TypePaintLen,
  TypeColorLen,
  TypeAreaLen,
  TypePointerInputLen,
  TypePassLen,
  TypeKeyInputLen,
  TypeHideInputLen,
  TypePushLen,
  TypePopLen,
  TypeAuxLen,
  TypeClipLen,
  TypeProfileLen,
  TypeCallLen,
 }[t-firstOpIndex]
}

func (t OpType) NumRefs() int {
 switch t {
 case TypeKeyInput, TypePointerInput, TypeProfile, TypeCall:
  return 1
 case TypeImage:
  return 2
 default:
  return 0
 }
}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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// license that can be found in the LICENSE file.

package unit

import (
 "errors"
 "fmt"
 "math"
```

```
 "unicode/utf8"
)

// Angle represents an angle in radians.
type Angle float64

const Rad Angle = 1

// Unit converts the Angle to a *Unit
func (a Angle) Unit() *Unit {
 return New(float64(a), Dimensions{
  AngleDim: 1,
 })
}

// Angle allows Angle to implement a Angleer interface
func (a Angle) Angle() Angle {
 return a
}

// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (a *Angle) From(u Uniter) error {
 if !DimensionsMatch(u, Rad) {
  *a = Angle(math.NaN())
  return errors.New("Dimension mismatch")
 }
 *a = Angle(u.Unit().Value())
 return nil
}

func (a Angle) Format(fs fmt.State, c rune) {
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs,
 "%T(%v)", a, float64(a))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " rad"
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(a))
  case pOk:
```

```
  fmt.Fprintf(fs, "%.*"+string(c), p, float64(a))
 case wOk:
  fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(a))
 default:
  fmt.Fprintf(fs, "%"+string(c), float64(a))
 }
 fmt.Fprint(fs, unit)
default:
 fmt.Fprintf(fs, "%%!%c(%T=%g rad)", c, a, float64(a))
}
}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "fmt"
 "testing"
)

func TestVoltageFormat(t *testing.T) {
 for _, test := range []struct {
  value  Voltage
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 V"},
  {1.23456789, "%.1v", "1 V"},
  {1.23456789, "%20.1v", "                 1 V"},
  {1.23456789, "%20v", "        1.23456789 V"},
  {1.23456789, "%1v", "1.23456789 V"},
  {1.23456789, "%#v", "unit.Voltage(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Voltage=1.23456789 V)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
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```

```
package testblas

import (
 "testing"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/floats"
)

type Dspr2er interface {
 Dspr2(ul blas.Uplo, n int, alpha float64, x []float64, incX int, y []float64, incY int, a []float64)
}

func Dspr2Test(t *testing.T, blasser Dspr2er) {
 for i, test := range []struct {
  n     int
  a     [][]float64
  ul    blas.Uplo
  x     []float64
  y     []float64
  alpha float64
  ans   [][]float64
 }{
  {
   n: 3,
   a: [][]float64{
    {7, 2, 4},
    {0, 3, 5},
    {0, 0, 6},
   },
   x:     []float64{2, 3, 4},
   y:     []float64{5, 6, 7},
   alpha: 2,
   ul:    blas.Upper,
   ans: [][]float64{
    {47, 56, 72},
    {0, 75, 95},
    {0, 0, 118},
   },
  },
  {
   n: 3,
   a: [][]float64{
    {7, 0, 0},
    {2, 3, 0},
    {4, 5, 6},
   },
   x:     []float64{2, 3, 4},
```

```
  y:     []float64{5, 6, 7},
  alpha:
 2,
  ul:    blas.Lower,
  ans: [][]float64{
   {47, 0, 0},
   {56, 75, 0},
   {72, 95, 118},
  },
 },
} {
 incTest := func(incX, incY, extra int) {
  aFlat := flattenTriangular(test.a, test.ul)
  x := makeIncremented(test.x, incX, extra)
  y := makeIncremented(test.y, incY, extra)
  blasser.Dspr2(test.ul, test.n, test.alpha, x, incX, y, incY, aFlat)
  ansFlat := flattenTriangular(test.ans, test.ul)
  if !floats.EqualApprox(aFlat, ansFlat, 1e-14) {
   t.Errorf("Case %v, incX = %v, incY = %v. Want %v, got %v.", i, incX, incY, ansFlat, aFlat)
  }
 }
 incTest(1, 1, 0)
 incTest(-2, 1, 0)
 incTest(-2, 3, 0)
 incTest(2, -3, 0)
 incTest(3, -2, 0)
 incTest(-3, -4, 0)
}
}
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package hyperdual_test

import (
 "fmt"

 "gonum.org/v1/gonum/num/hyperdual"
)

func Example_Number_fike() {
 // Calculate the value and first and second derivatives
 // of the function e^x/(sqrt(sin(x)^3 + cos(x)^3)).
 fn := func(x hyperdual.Number) hyperdual.Number {
  return hyperdual.Mul(
   hyperdual.Exp(x),
   hyperdual.Inv(hyperdual.Sqrt(
```

```
    hyperdual.Add(
     hyperdual.PowReal(hyperdual.Sin(x), 3),
     hyperdual.PowReal(hyperdual.Cos(x), 3)))))
 }

 v := fn(hyperdual.Number{Real: 1.5, E1mag: 1, E2mag: 1})
 fmt.Printf("v=%.4f\n", v)
 fmt.Printf("fn(1.5)=%.4f\nfn'(1.5)=%.4f\nfn"(1.5)=%.4f\n", v.Real, v.E1mag, v.E1E2mag)

 // Output:
 //
 // v=(4.4978+4.0534+4.0534+9.4631)
 // fn(1.5)=4.4978
 // fn'(1.5)=4.0534
 // fn"(1.5)=9.4631
}
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package optimize

import (
 "testing"

 "gonum.org/v1/gonum/mat"
 "gonum.org/v1/gonum/optimize/functions"
 "gonum.org/v1/gonum/stat/distmv"
)

func TestGuessAndCheck(t *testing.T) {
 dim := 30
 problem := Problem{
  Func: functions.ExtendedRosenbrock{}.Func,
 }
 mu := make([]float64, dim)
 sigma := mat.NewSymDense(dim, nil)
 for i := 0; i < dim; i++ {
  sigma.SetSym(i, i, 1)
 }
 d, ok := distmv.NewNormal(mu, sigma, nil)
 if !ok {
  panic("bad test")
 }
 initX := make([]float64, dim)
 Minimize(problem, initX, nil, &GuessAndCheck{Rander: d})

 settings := &Settings{}
```

```
 settings.Concurrent = 5
 settings.MajorIterations = 15
 Minimize(problem, initX, settings, &GuessAndCheck{Rander: d})
}
<?xml version="1.0" encoding="UTF-8"?>
<gexf xmlns="http://www.gexf.net/1.2draft"
xmlns:viz="http://www.gexf.net/1.2draft/viz"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.gexf.net/1.2draft
                http://www.gexf.net/1.2draft/gexf.xsd"
version="1.2">
  <meta lastmodifieddate="2009-10-01">
    <creator>Gephi.org</creator>
    <description>A hierarchy file</description>
  </meta>
  <graph mode="static" defaultedgetype="directed">
    <nodes>
      <node id="a" label="Kevin Bacon">
        <nodes>
          <node id="b" label="God">
            <nodes>
              <node id="c" label="human1"/>
              <node id="d" label="human2"/>
              <node id="i" label="human3"/>
            </nodes>
          </node>
          <node id="e" label="Me">
            <nodes>
              <node id="f" label="frog1"/>
              <node id="g" label="frog2"/>

            <node id="h" label="frog3"/>
            </nodes>
          </node>
          <node id="j" label="You" />
        </nodes>
      </node>
    </nodes>
    <edges>
        <edge id="0" source="b" target="e" />
        <edge id="1" source="c" target="d" />
        <edge id="2" source="c" target="i" />
        <edge id="3" source="g" target="b" />
        <edge id="4" source="f" target="a" />
        <edge id="5" source="f" target="g" />
        <edge id="6" source="f" target="h" />
        <edge id="7" source="g" target="h" />
        <edge id="8" source="a" target="j" />
```

```
      </edges>
   </graph>
</gexf>
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package gonum

import (
 "testing"

 "gonum.org/v1/gonum/blas/testblas"
)

func TestZgemm(t *testing.T)  { testblas.ZgemmTest(t, impl) }
func TestZhemm(t *testing.T)  { testblas.ZhemmTest(t, impl) }
func TestZherk(t *testing.T)  { testblas.ZherkTest(t, impl) }
func TestZher2k(t *testing.T) { testblas.Zher2kTest(t, impl) }
func TestZsymm(t *testing.T)  { testblas.ZsymmTest(t, impl) }
func TestZsyrk(t *testing.T)  { testblas.ZsyrkTest(t, impl) }
func TestZsyr2k(t *testing.T) { testblas.Zsyr2kTest(t, impl) }
func TestZtrmm(t *testing.T)  { testblas.ZtrmmTest(t, impl) }
func TestZtrsm(t *testing.T)  { testblas.ZtrsmTest(t, impl) }
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package testlapack

import (
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/floats"
)

type Dorg2rer interface {
 Dgeqrfer
 Dorg2r(m, n, k int, a []float64, lda int, tau []float64, work []float64)
}

func Dorg2rTest(t *testing.T, impl Dorg2rer) {
 rnd := rand.New(rand.NewSource(1))
 for ti, test := range []struct {
  m, n, k, lda int
 }{
```

```
 {3, 3, 0, 0},
 {4, 3, 0, 0},
 {3, 3, 2, 0},
 {4, 3, 2, 0},

 {5, 5, 0, 20},
 {5, 5, 3, 20},
 {10, 5, 0, 20},
 {10, 5, 2, 20},
} {
 m := test.m
 n := test.n
 lda := test.lda
 if lda == 0 {
  lda = test.n
 }
 // Allocate mn matrix A and fill it with random numbers.
 a := make([]float64, m*lda)
 for i := range a {
  a[i] = rnd.NormFloat64()
 }

 // Compute the QR decomposition of A.
 tau := make([]float64, min(m, n))
 work := make([]float64, 1)
 impl.Dgeqrf(m,
n, a, lda, tau, work, -1)
 work = make([]float64, int(work[0]))
 impl.Dgeqrf(m, n, a, lda, tau, work, len(work))

 // Compute the matrix Q explicitly using the first k elementary reflectors.
 k := test.k
 if k == 0 {
  k = n
 }
 q := constructQK("QR", m, n, k, a, lda, tau)

 // Compute the matrix Q using Dorg2r.
 impl.Dorg2r(m, n, k, a, lda, tau, work)

 // Check that the first n columns of both results match.
 same := true
loop:
 for i := 0; i < m; i++ {
  for j := 0; j < n; j++ {
   if !floats.EqualWithinAbsOrRel(q.Data[i*q.Stride+j], a[i*lda+j], 1e-12, 1e-12) {
    same = false
    break loop
```

```
    }
   }
  }
  if !same {
   t.Errorf("Case %v: Q mismatch", ti)
  }
 }
}
//**
source: https://github.com/runatlantis/atlantis/blob/master/LICENSE
**//
{{Types "Apache-2.0"}}

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package mathext

import (
 "math"
 "testing"

 "gonum.org/v1/gonum/floats"
```

```
)

var result float64

func TestDigamma(t *testing.T) {
 const tol = 1e-10

 for i, test := range []struct {
  x, want float64
 }{
  // Results computed using WolframAlpha.
  {0.0, math.Inf(-1)},
  {math.Copysign(0.0, -1.0), math.Inf(1)},
  {math.Inf(1), math.Inf(1)},
  {math.Inf(-1), math.NaN()},
  {math.NaN(), math.NaN()},
  {-1.0, math.NaN()},
  {-100.5, 4.615124601338064117341315601525112558522917517910505881343},
  {.5, -1.963510026021423479440976332998755567193159604660 43},
  {10, 2.251752589066721107647456163885851537211808918028330369448},
  {math.Pow10(20), 46.05170185988091368035482909368728415202202143924212618733},
  {-1.111111111e9, math.NaN()},
  {1.46, -0.0015805619870834176761055440235670343483395201 10000},
 } {

  got := Digamma(test.x)
  if
 !(math.IsNaN(got) && math.IsNaN(test.want)) && !floats.EqualWithinAbsOrRel(got, test.want, tol, tol) {
   t.Errorf("test %d Digamma(%g) failed: got %g want %g", i, test.x, got, test.want)
  }
 }
}

func BenchmarkDigamma(b *testing.B) {
 var r float64
 for i := 0; i < b.N; i++ {
  r = Digamma(-1.111111111e9)
 }
 result = r
}
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package linear

import (
 "gonum.org/v1/gonum/graph"
```

```
)

// NodeStack implements a LIFO stack of graph.Node.
type NodeStack []graph.Node

// Len returns the number of graph.Nodes on the stack.
func (s *NodeStack) Len() int { return len(*s) }

// Pop returns the last graph.Node on the stack and removes it
// from the stack.
func (s *NodeStack) Pop() graph.Node {
 v := *s
 v, n := v[:len(v)-1], v[len(v)-1]
 *s = v
 return n
}

// Push adds the node n to the stack at the last position.
func (s *NodeStack) Push(n graph.Node) { *s = append(*s, n) }

// NodeQueue implements a FIFO queue.
type NodeQueue struct {
 head int
 data []graph.Node
}

// Len returns the number of graph.Nodes in the queue.
func (q *NodeQueue) Len() int { return len(q.data) - q.head }

// Enqueue adds the node n to the back of the queue.
func (q *NodeQueue) Enqueue(n
 graph.Node) {
 if len(q.data) == cap(q.data) && q.head > 0 {
  l := q.Len()
  copy(q.data, q.data[q.head:])
  q.head = 0
  q.data = append(q.data[:l], n)
 } else {
  q.data = append(q.data, n)
 }
}

// Dequeue returns the graph.Node at the front of the queue and
// removes it from the queue.
func (q *NodeQueue) Dequeue() graph.Node {
 if q.Len() == 0 {
  panic("queue: empty queue")
 }
```

```
 var n graph.Node
 n, q.data[q.head] = q.data[q.head], nil
 q.head++

 if q.Len() == 0 {
  q.head = 0
  q.data = q.data[:0]
 }

 return n
}

// Reset clears the queue for reuse.
func (q *NodeQueue) Reset() {
 q.head = 0
 q.data = q.data[:0]
}
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package quat

import (
 "math"
 "testing"
)

var nan = math.NaN()

var nanTests = []struct {
 q    Number
 want bool
}{
 {q: NaN(), want: true},
 {q: Number{Real: nan, Imag: nan, Jmag: nan, Kmag: nan}, want: true},
 {q: Number{Real: nan, Imag: 0, Jmag: 0, Kmag: 0}, want: true},
 {q: Number{Real: 0, Imag: nan, Jmag: 0, Kmag: 0}, want: true},
 {q: Number{Real: 0, Imag: 0, Jmag: nan, Kmag: 0}, want: true},
 {q: Number{Real: 0, Imag: 0, Jmag: 0, Kmag: nan}, want: true},
 {q: Number{Real: inf, Imag: nan, Jmag: nan, Kmag: nan}, want: false},
 {q: Number{Real: nan, Imag: inf, Jmag: nan, Kmag: nan}, want: false},
 {q: Number{Real: nan, Imag: nan, Jmag: inf, Kmag: nan}, want: false},
 {q: Number{Real: nan, Imag: nan, Jmag: nan, Kmag: inf}, want: false},
 {q: Number{Real: -inf, Imag: nan, Jmag: nan, Kmag: nan}, want: false},
 {q: Number{Real:
```

```
 nan, Imag: -inf, Jmag: nan, Kmag: nan}, want: false},
 {q: Number{Real: nan, Imag: nan, Jmag: -inf, Kmag: nan}, want: false},
 {q: Number{Real: nan, Imag: nan, Jmag: nan, Kmag: -inf}, want: false},
 {q: Number{}, want: false},
}

func TestIsNaN(t *testing.T) {
 for _, test := range nanTests {
  got := IsNaN(test.q)
  if got != test.want {
   t.Errorf("unexpected result for IsNaN(%v): got:%t want:%t", test.q, got, test.want)
  }
 }
}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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// license that can be found in the LICENSE file.

package unit

import (
 "errors"
 "fmt"
 "math"
 "unicode/utf8"
)

// Time represents a duration in seconds.
type Time float64

const (
 Second Time = 1

 Minute = 60 * Second
 Hour   = 60 * Minute
)

// Unit converts the Time to a *Unit
func (t Time) Unit() *Unit {
 return New(float64(t), Dimensions{
  TimeDim: 1,
 })
}

// Time allows Time to implement a Timer interface
func (t Time) Time() Time {
```

```
 return t
}

// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (t *Time) From(u Uniter) error {
 if !DimensionsMatch(u, Second) {
  *t = Time(math.NaN())
  return errors.New("Dimension mismatch")
 }
 *t = Time(u.Unit().Value())
 return nil
}

func (t Time) Format(fs fmt.State, c rune) {
 switch c {
 case
 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", t, float64(t))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " s"
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(t))
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(t))
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(t))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(t))
  }
  fmt.Fprint(fs, unit)
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g s)", c, t, float64(t))
 }
}
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// license that can be found in the LICENSE file.

package testblas
```

```
import (
 "testing"

 "gonum.org/v1/gonum/blas"
)

type Dsprer interface {
 Dspr(ul blas.Uplo, n int, alpha float64, x []float64, incX int, a []float64)
}

func DsprTest(t *testing.T, blasser Dsprer) {
 for i, test := range []struct {
  ul    blas.Uplo
  n     int
  a     [][]float64
  x     []float64
  alpha float64
  ans   [][]float64
 }{
  {
   ul: blas.Upper,
   n:  4,
   a: [][]float64{
    {10, 2, 0, 1},
    {0, 1, 2, 3},
    {0, 0, 9, 15},
    {0, 0, 0, -6},
   },
   x:     []float64{1, 2, 0, 5},
   alpha: 8,
   ans: [][]float64{
    {18, 18, 0, 41},
    {0, 33, 2, 83},
    {0, 0, 9, 15},
    {0, 0, 0, 194},
   },
  },
  {
   ul: blas.Lower,
   n:  3,
   a: [][]float64{
    {10, 2, 0},
    {4, 1, 2},
    {2, 7, 9},
   },
   x:     []float64{3, 0, 5},
   alpha: 8,
   ans: [][]float64{
```

```
    {82, 2, 0},
    {4,
 1, 2},
    {122, 7, 209},
   },
  },
 } {
  incTest := func(incX, extra int) {
   xnew := makeIncremented(test.x, incX, extra)
   aFlat := flattenTriangular(test.a, test.ul)
   ans := flattenTriangular(test.ans, test.ul)
   blasser.Dspr(test.ul, test.n, test.alpha, xnew, incX, aFlat)
   if !dSliceTolEqual(aFlat, ans) {
    t.Errorf("Case %v, idx %v: Want %v, got %v.", i, incX, ans, aFlat)
   }
  }
  incTest(1, 3)
  incTest(1, 0)
  incTest(3, 2)
  incTest(-2, 2)
 }
}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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// license that can be found in the LICENSE file.

package unit

import (
 "errors"
 "fmt"
 "math"
 "unicode/utf8"
)

// Radioactivity represents a rate of radioactive decay in becquerels.
type Radioactivity float64

const Becquerel Radioactivity = 1

// Unit converts the Radioactivity to a *Unit
func (r Radioactivity) Unit() *Unit {
 return New(float64(r), Dimensions{
  TimeDim: -1,
 })
}
```

```
// Radioactivity allows Radioactivity to implement a Radioactivityer interface
func (r Radioactivity) Radioactivity() Radioactivity {
 return r
}

// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (r *Radioactivity) From(u Uniter) error {
 if !DimensionsMatch(u, Becquerel) {
  *r = Radioactivity(math.NaN())
  return errors.New("Dimension mismatch")
 }
 *r = Radioactivity(u.Unit().Value())
 return
 nil
}

func (r Radioactivity) Format(fs fmt.State, c rune) {
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", r, float64(r))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " Bq"
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(r))
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(r))
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(r))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(r))
  }
  fmt.Fprint(fs, unit)
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g Bq)", c, r, float64(r))
 }
}
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```

```
package unit_test

import (
 "fmt"

 "gonum.org/v1/gonum/unit"
)

func ExampleNew() {
 // Create an angular acceleration of 3 rad/s^2
 accel := unit.New(3.0, unit.Dimensions{unit.AngleDim: 1, unit.TimeDim: -2})
 fmt.Println(accel)

 // Output: 3 rad s^-2
}

func ExampleNewDimension() {
 // Create a "trees" dimension
 // Typically, this should be used within an init function
 treeDim := unit.NewDimension("tree")
 countPerArea := unit.New(0.1, unit.Dimensions{treeDim: 1, unit.LengthDim: -2})
 fmt.Println(countPerArea)

 // Output: 0.1 tree m^-2
}

func Example_horsepower() {
 // One mechanical horsepower  33,000 ft-lbf/min.
 foot := unit.Length(0.3048)
 pound := unit.Mass(0.45359237)

 gravity := unit.Acceleration(9.80665)
 poundforce := pound.Unit().Mul(gravity)

 hp := ((33000 * foot).Unit().Mul(poundforce)).Div(unit.Minute)
 fmt.Println("1
 hp =", hp)

 watt := unit.Power(1)
 fmt.Println("W is equivalent to hp?", unit.DimensionsMatch(hp, watt))

 // Output:
 //
 // 1 hp = 745.6998715822701 kg m^2 s^-3
 // W is equivalent to hp? true
}
```

//** github.com/icheckteam/ichain@v0.22.4 **//

{{Types "Apache-2.0"}}

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//** github.com/swill/svgo@v0.0.0-20150715025413-bc384fa1e849 **//

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```
package path

import (
 "testing"
)

func TestDisjointSetMakeSet(t *testing.T) {
 ds := newDisjointSet()
 if ds.master == nil {
  t.Fatal("Internal disjoint set map erroneously nil")
 } else if len(ds.master) != 0 {
  t.Error("Disjoint set master map of wrong size")
 }

 ds.makeSet(3)
 if len(ds.master) != 1 {
  t.Error("Disjoint set master map of wrong size")
 }

 if node, ok := ds.master[3]; !ok {
  t.Error("Make set did not successfully add element")
 } else {
  if node == nil {
   t.Fatal("Disjoint set node from makeSet is nil")
```

```
  }

  if node.rank != 0 {
   t.Error("Node rank set incorrectly")
  }

  if node.parent != node {
   t.Error("Node parent set incorrectly")
  }
 }
}

func TestDisjointSetFind(t *testing.T) {
 ds := newDisjointSet()

 ds.makeSet(3)
 ds.makeSet(5)

 if ds.find(3) == ds.find(5) {
  t.Error("Disjoint
 sets incorrectly found to be the same")
 }
}

func TestUnion(t *testing.T) {
 ds := newDisjointSet()

 ds.makeSet(3)
 ds.makeSet(5)

 ds.union(ds.find(3), ds.find(5))

 if ds.find(3) != ds.find(5) {
  t.Error("Sets found to be disjoint after union")
 }
}
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// +build !go1.14

// Work around golang.org/issue/33384, fixed in CL 191785,
// to be released in Go 1.14.

package app

import (
 "os"
 "os/signal"
```

```
 "syscall"
)

func init() {
 signal.Notify(make(chan os.Signal), syscall.SIGPIPE)
}
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package distuv

import (
 "math"
 "sort"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/floats"
)

func TestBetaProb(t *testing.T) {
 // Values a comparison with scipy
 for _, test := range []struct {
  x, alpha, beta, want float64
 }{
  {0.1, 2, 0.5, 0.079056941504209499},
  {0.5, 1, 5.1, 0.29740426605235754},
  {0.1, 0.5, 0.5, 1.0610329539459691},
  {1, 0.5, 0.5, math.Inf(1)},
  {-1, 0.5, 0.5, 0},
 } {
  pdf := Beta{Alpha: test.alpha, Beta: test.beta}.Prob(test.x)
  if !floats.EqualWithinAbsOrRel(pdf, test.want, 1e-10, 1e-10) {
   t.Errorf("Pdf mismatch. Got %v, want %v", pdf, test.want)
  }
 }
}

func TestBetaRand(t *testing.T) {
 src := rand.New(rand.NewSource(1))
 for i, b := range []Beta{
  {Alpha: 0.5, Beta: 0.5, Src: src},
  {Alpha: 5, Beta: 1, Src: src},
  {Alpha: 2, Beta: 2, Src: src},
  {Alpha: 2, Beta:
```

```
 5, Src: src},
 } {
  testBeta(t, b, i)
 }
}

func testBeta(t *testing.T, b Beta, i int) {
 const (
  tol  = 1e-2
  n    = 5e4
  bins = 10
 )
 x := make([]float64, n)
 generateSamples(x, b)
 sort.Float64s(x)

 testRandLogProbContinuous(t, i, 0, x, b, tol, bins)
 checkMean(t, i, x, b, tol)
 checkVarAndStd(t, i, x, b, tol)
 checkExKurtosis(t, i, x, b, 5e-2)
 checkEntropy(t, i, x, b, 5e-3)
 checkProbContinuous(t, i, x, b, 1e-3)
 checkQuantileCDFSurvival(t, i, x, b, tol)
 checkProbQuantContinuous(t, i, x, b, tol)
}
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package sampleuv

import (
 "sort"

 "golang.org/x/exp/rand"
)

// WithoutReplacement samples len(idxs) integers from [0, n) without replacement.
// That is, upon return the elements of idxs will be unique integers. If source
// is non-nil it will be used to generate random numbers, otherwise the default
// source from the math/rand package will be used.
//
// WithoutReplacement will panic if len(idxs) > n.
func WithoutReplacement(idxs []int, n int, src rand.Source) {
 if len(idxs) == 0 {
  panic("withoutreplacement: zero length input")
 }
 if len(idxs) > n {
```

```
 panic("withoutreplacement: impossible size inputs")
}

// There are two algorithms. One is to generate a random permutation
// and take the first len(idxs) elements. The second is to generate
// individual random numbers for each element and check uniqueness. The first
//
method scales as O(n), and the second scales as O(len(idxs)^2). Choose
// the algorithm accordingly.
if n < len(idxs)*len(idxs) {
 var perm []int
 if src != nil {
  perm = rand.New(src).Perm(n)
 } else {
  perm = rand.Perm(n)
 }
 copy(idxs, perm)
 return
}

// Instead, generate the random numbers directly.
sorted := make([]int, 0, len(idxs))
for i := range idxs {
 var r int
 if src != nil {
  r = rand.New(src).Intn(n - i)
 } else {
  r = rand.Intn(n - i)
 }
 for _, v := range sorted {
  if r >= v {
   r++
  }
 }
 idxs[i] = r
 sorted = append(sorted, r)
 sort.Ints(sorted)
}
}
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package testblas

import (
 "testing"
```

```
 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/floats"
)

type Dzasumer interface {
 Dzasum(n int, x []complex128, incX int) float64
}

func DzasumTest(t *testing.T, impl Dzasumer) {
 const tol = 1e-14
 rnd := rand.New(rand.NewSource(1))
 for _, n := range []int{0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 50, 100} {
  for _, incX := range []int{-5, 1, 2, 10} {
   aincX := abs(incX)
   var x []complex128
   if n > 0 {
    x = make([]complex128, (n-1)*aincX+1)
   }
   for i := range x {
    x[i] = znan
   }
   for i := 0; i < n; i++ {
    re := float64(2*i + 1)
    if rnd.Intn(2) == 0 {
     re *= -1
    }
    im := float64(2 * (i + 1))
    if rnd.Intn(2) == 0 {
     im *= -1
    }
    x[i*aincX] = complex(re, im)
   }

   want := float64(n * (2*n + 1))
   got := impl.Dzasum(n, x, incX)

   if
 incX < 0 {
    if got != 0 {
     t.Errorf("Case n=%v,incX=%v: non-zero result when incX < 0. got %v", n, incX, got)
    }
    continue
   }
   if !floats.EqualWithinAbsOrRel(got, want, tol, tol) {
    t.Errorf("Case n=%v,incX=%v: unexpected result. want %v, got %v", n, incX, want, got)
   }
  }
```

```
 }
}
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package gl

import "syscall/js"

type (
 Buffer       js.Value
 Framebuffer  js.Value
 Program      js.Value
 Renderbuffer js.Value
 Shader       js.Value
 Texture      js.Value
 Query        js.Value
 Uniform      js.Value
 Object       js.Value
)

func (p Program) Valid() bool {
 return !js.Value(p).IsUndefined() && !js.Value(p).IsNull()
}

func (s Shader) Valid() bool {
 return !js.Value(s).IsUndefined() && !js.Value(s).IsNull()
}

func (u Uniform) Valid() bool {
 return !js.Value(u).IsUndefined() && !js.Value(u).IsNull()
}

func (t Texture) Valid() bool {
 return !js.Value(t).IsUndefined() && !js.Value(t).IsNull()
}

func (t Texture) Equal(t2 Texture) bool {
 return js.Value(t).Equal(js.Value(t2))
}
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// +build android darwin,ios

package window

// Android only supports non-Java programs as c-shared libraries.
// Unfortunately, Go does not run a program's main function in
// library mode. To make Gio programs simpler and uniform, we'll
```

```
// link to the main function here and call it from Java.

import (
 "sync"
 _ "unsafe" // for go:linkname
)

//go:linkname mainMain main.main
func mainMain()

var runMainOnce sync.Once

func runMain() {
 runMainOnce.Do(func() {
  // Indirect call, since the linker does not know the address of main when
  // laying down this package.
  fn := mainMain
  go fn()
 })
}
```

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```
// Package samplemv implements advanced sampling routines from explicit and implicit
// probability distributions.
package samplemv // import "gonum.org/v1/gonum/stat/samplemv"
```

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```
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package f32

// ScalUnitary is
//  for i := range x {
//   x[i] *= alpha
//  }
func ScalUnitary(alpha float32, x []float32) {
 for i := range x {
  x[i] *= alpha
 }
}

// ScalUnitaryTo is
//  for i, v := range x {
//   dst[i] = alpha * v
//  }
func ScalUnitaryTo(dst []float32, alpha float32, x []float32) {
```

```
 for i, v := range x {
  dst[i] = alpha * v
 }
}

// ScalInc is
//  var ix uintptr
//  for i := 0; i < int(n); i++ {
//   x[ix] *= alpha
//   ix += incX
//  }
func ScalInc(alpha float32, x []float32, n, incX uintptr) {
 var ix uintptr
 for i := 0; i < int(n); i++ {
  x[ix] *= alpha
  ix += incX
 }
}

// ScalIncTo is
//  var idst, ix uintptr
//  for i := 0; i < int(n); i++ {
//   dst[idst] = alpha * x[ix]
//   ix += incX
//   idst += incDst
//  }
func ScalIncTo(dst []float32, incDst uintptr, alpha float32, x []float32, n, incX
 uintptr) {
 var idst, ix uintptr
 for i := 0; i < int(n); i++ {
  dst[idst] = alpha * x[ix]
  ix += incX
  idst += incDst
 }
}
```

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```
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package gonum

import (
 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/testblas"
)

const (
 Sm  = testblas.SmallMat
 Med = testblas.MediumMat
 Lg  = testblas.LargeMat
 Hg  = testblas.HugeMat
)

const (
 T  = blas.Trans
 NT = blas.NoTrans
)
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package testblas

import (
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
)

func DtrmvBenchmark(b *testing.B, dtrmv Dtrmver, n, lda, incX int, ul blas.Uplo, tA blas.Transpose, d blas.Diag) {
 rnd := rand.New(rand.NewSource(0))
```

```
 a := make([]float64, n*lda)
 for i := range a {
  a[i] = rnd.Float64()
 }

 x := make([]float64, n*incX)
 for i := range x {
  x[i] = rnd.Float64()
 }

 b.ResetTimer()
 for i := 0; i < b.N; i++ {
  dtrmv.Dtrmv(ul, tA, d, n, a, lda, x, incX)
 }
}
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package graph6_test

import (
 "fmt"

 "gonum.org/v1/gonum/graph"
 "gonum.org/v1/gonum/graph/encoding/graph6"
)

func ExampleGraph() {
 // Construct a graph from HOG graph 32194.
 // https://hog.grinvin.org/ViewGraphInfo.action?id=32194
 g := graph6.Graph("H@BQPS^")

 // Get the nodes of the graph and print
 // an adjacency list.
 nodes := g.Nodes()
 fmt.Printf("Number of nodes: %d\n", nodes.Len())
 fmt.Println("Adjacency:")
 for nodes.Next() {
  fmt.Printf("\t%d: %d\n", nodes.Node().ID(), graph.NodesOf(g.From(nodes.Node().ID())))
 }

 // Output:
 //
 // Number of nodes: 9
 // Adjacency:
 //  0: [5]
 //  1: [5 6]
```

```
 //  2: [3 7]
 //  3: [2 5 8]
 //  4: [6 7 8]
 //  5: [0 1 3 8]
 //  6: [1 4 7 8]
 //  7: [2 4 6 8]
 //  8: [3 4 5 6 7]
}
```

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```
package stat_test

import (
 "fmt"

 "gonum.org/v1/gonum/mat"
 "gonum.org/v1/gonum/stat"
)

func ExamplePC() {
 // iris is a truncated sample of the Fisher's Iris dataset.
 n := 10
 d := 4
 iris := mat.NewDense(n, d, []float64{
  5.1, 3.5, 1.4, 0.2,
  4.9, 3.0, 1.4, 0.2,
  4.7, 3.2, 1.3, 0.2,
  4.6, 3.1, 1.5, 0.2,
  5.0, 3.6, 1.4, 0.2,
  5.4, 3.9, 1.7, 0.4,
  4.6, 3.4, 1.4, 0.3,
  5.0, 3.4, 1.5, 0.2,
  4.4, 2.9, 1.4, 0.2,
  4.9, 3.1, 1.5, 0.1,
 })

 // Calculate the principal component direction vectors
 // and variances.
 var pc stat.PC
 ok := pc.PrincipalComponents(iris, nil)
 if !ok {
  return
 }
 fmt.Printf("variances = %.4f\n\n", pc.VarsTo(nil))

 // Project the data onto the first 2 principal components.
```

```
 k := 2
 var proj mat.Dense
 var vec mat.Dense
 pc.VectorsTo(&vec)
 proj.Mul(iris, vec.Slice(0, d, 0, k))

 fmt.Printf("proj
 = %.4f", mat.Formatted(&proj, mat.Prefix("       ")))

 // Output:
 // variances = [0.1666 0.0207 0.0079 0.0019]
 //
 // proj = -6.1686   1.4659
 //        -5.6767   1.6459
 //        -5.6699   1.3642
 //        -5.5643   1.3816
 //        -6.1734   1.3309
 //        -6.7278   1.4021
 //        -5.7743   1.1498
 //        -6.0466   1.4714
 //        -5.2709   1.3570
 //        -5.7533   1.6207
}
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// Package cephes implements functions originally in the Netlib code by Stephen Mosher.
package cephes // import "gonum.org/v1/gonum/mathext/internal/cephes"
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "errors"
 "fmt"
 "math"
 "unicode/utf8"
)

// Current represents a current in Amperes.
type Current float64

const Ampere Current = 1
```

```
// Unit converts the Current to a *Unit
func (i Current) Unit() *Unit {
 return New(float64(i), Dimensions{
  CurrentDim: 1,
 })
}

// Current allows Current to implement a Currenter interface
func (i Current) Current() Current {
 return i
}

// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (i *Current) From(u Uniter) error {
 if !DimensionsMatch(u, Ampere) {
  *i = Current(math.NaN())
  return errors.New("Dimension mismatch")
 }
 *i = Current(u.Unit().Value())
 return nil
}

func (i Current) Format(fs fmt.State, c rune) {
 switch c {
 case
 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", i, float64(i))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " A"
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(i))
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(i))
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(i))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(i))
  }
  fmt.Fprint(fs, unit)
```

```
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g A)", c, i, float64(i))
 }
}
//** github.com/twitchyliquid64/golang-asm@v0.15.0 **//
```

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```
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package distuv

type LogProber interface {
 LogProb(float64) float64
}

type Rander interface {
 Rand() float64
}

type RandLogProber interface {
 Rander
 LogProber
}

type Quantiler interface {
 Quantile(p float64) float64
}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "fmt"
 "testing"
)
```

```
func TestCurrentFormat(t *testing.T) {
 for _, test := range []struct {
  value  Current
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 A"},
  {1.23456789, "%.1v", "1 A"},
  {1.23456789, "%20.1v", "                 1 A"},
  {1.23456789, "%20v", "        1.23456789 A"},
  {1.23456789, "%1v", "1.23456789 A"},
  {1.23456789, "%#v", "unit.Current(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Current=1.23456789 A)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
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package testblas

import (
 "fmt"
 "testing"

 "golang.org/x/exp/rand"
)

type Zcopyer interface {
 Zcopy(n int, x []complex128, incX int, y []complex128, incY int)
}

func ZcopyTest(t *testing.T, impl Zcopyer) {
 rnd := rand.New(rand.NewSource(1))
 for n := 0; n <= 20; n++ {
  for _, inc := range allPairs([]int{-7, -3, 1, 13}, []int{-11, -5, 1, 17}) {
   incX := inc[0]
   incY := inc[1]
   aincX := abs(incX)
   aincY := abs(incY)

   var x []complex128
   if n > 0 {
```

```
  x = make([]complex128, (n-1)*aincX+1)
  }
  for i := range x {
   x[i] = znan
  }
  for i := 0; i < n; i++ {
   x[i*aincX] = complex(rnd.NormFloat64(), rnd.NormFloat64())
  }
  xCopy := make([]complex128, len(x))
  copy(xCopy, x)

  var y []complex128
  if n > 0 {
   y = make([]complex128, (n-1)*aincY+1)
  }
  for i := range y {
   y[i] = znan
  }

  want
:= make([]complex128, len(y))
  for i := range want {
   want[i] = znan
  }
  if incX*incY > 0 {
   for i := 0; i < n; i++ {
    want[i*aincY] = x[i*aincX]
   }
  } else {
   for i := 0; i < n; i++ {
    want[i*aincY] = x[(n-1-i)*aincX]
   }
  }

  impl.Zcopy(n, x, incX, y, incY)

  prefix := fmt.Sprintf("Case n=%v,incX=%v,incY=%v:", n, incX, incY)

  if !zsame(x, xCopy) {
   t.Errorf("%v: unexpected modification of x", prefix)
  }
  if !zsame(y, want) {
   t.Errorf("%v: unexpected y:\nwant %v\ngot %v", prefix, want, y)
  }
 }
}
}
```

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```
package mat_test

import (
 "fmt"

 "gonum.org/v1/gonum/mat"
)

func ExampleCol() {
 // This example copies the second column of a matrix into col, allocating a new slice of float64.
 m := mat.NewDense(3, 3, []float64{
  2.0, 9.0, 3.0,
  4.5, 6.7, 8.0,
  1.2, 3.0, 6.0,
 })

 col := mat.Col(nil, 1, m)

 fmt.Printf("col = %#v", col)
 // Output:
 //
 // col = []float64{9, 6.7, 3}
}

func ExampleRow() {
 // This example copies the third row of a matrix into row, allocating a new slice of float64.
 m := mat.NewDense(3, 3, []float64{
  2.0, 9.0, 3.0,
  4.5, 6.7, 8.0,
  1.2, 3.0, 6.0,
 })

 row := mat.Row(nil, 2, m)

 fmt.Printf("row = %#v", row)
 // Output:
 //
 // row = []float64{1.2, 3, 6}
```

```
}
//** github.com/jcvernaleo/3@v3.9.2+incompatible **//

{{Types "GPL-3.0-or-later CC-BY-3.0 Freetype"}}

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Contributions by Ahmad Syukri, Colin Jermain, Jonathan Leliaert, Mykola Dvornik.

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package unit

import (
 "fmt"
 "testing"
)

func TestTemperatureFormat(t *testing.T) {
 for _, test := range []struct {
  value  Temperature
  format string
  want   string
 }{
```

```
  {1.23456789, "%v", "1.23456789 K"},
  {1.23456789, "%.1v", "1 K"},
  {1.23456789, "%20.1v", "                 1 K"},
  {1.23456789, "%20v", "        1.23456789 K"},
  {1.23456789, "%1v", "1.23456789 K"},
  {1.23456789, "%#v", "unit.Temperature(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Temperature=1.23456789 K)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
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package quat

func lift(v float64) Number {
 return Number{Real: v}
}

func split(q Number) (float64, Number) {
 return q.Real, Number{Imag: q.Imag, Jmag: q.Jmag, Kmag: q.Kmag}
}

func join(w float64, uv Number) Number {
 uv.Real = w
 return uv
}

func unit(q Number) Number {
 return Scale(1/Abs(q), q)
}
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```

```
package cmplx64

import math "gonum.org/v1/gonum/internal/math32"

// Abs returns the absolute value (also called the modulus) of x.
func Abs(x complex64) float32 { return math.Hypot(real(x), imag(x)) }
// SPDX-License-Identifier: Unlicense OR MIT

package window

import (
 "unsafe"

 "gioui.org/app/internal/egl"
)

type context struct {
 win *window
 *egl.Context
}

func (w *window) NewContext() (Context, error) {
 disp := egl.NativeDisplayType(unsafe.Pointer(w.HDC()))
 ctx, err := egl.NewContext(disp)
 if err != nil {
  return nil, err
 }
 return &context{win: w, Context: ctx}, nil
}

func (c *context) Release() {
 if c.Context != nil {
  c.Context.Release()
  c.Context = nil
 }
}

func (c *context) MakeCurrent() error {
 c.Context.ReleaseSurface()
 win, width, height := c.win.HWND()
 eglSurf := egl.NativeWindowType(win)
 if err := c.Context.CreateSurface(eglSurf, width, height); err != nil {
  return err
 }
 if err := c.Context.MakeCurrent(); err != nil {
  return err
 }
 c.Context.EnableVSync(true)
```

```
 return nil
}

func (c *context) Lock() {}

func (c *context) Unlock() {}
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// Package dot implements GraphViz DOT marshaling and unmarshaling of graphs.
//
// See the GraphViz DOT Guide and the DOT grammar for more information
// on using specific aspects of the DOT language:
//
// DOT Guide: https://www.graphviz.org/pdf/dotguide.pdf
//
// DOT grammar: http://www.graphviz.org/doc/info/lang.html
//
// Attribute quoting
//
// Attributes and IDs are quoted if needed during marshalling, to conform with
// valid DOT syntax. Quoted IDs and attributes are unquoted during unmarshaling,
// so the data is kept in raw form. As an exception, quoted text with a leading
// `"<` and a trailing `>"` is not unquoted to ensure preservation of the string
// during a round-trip.
package dot // import "gonum.org/v1/gonum/graph/encoding/dot"
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// Package hyperdual provides the hyperdual numeric type and functions. Hyperdual
// numbers are an extension of the real numbers in the form a+b+b+d where
// ^2=0 and ^2=0, but 0, 0 and 0.
//
// See https://doi.org/10.2514/6.2011-886 and http://adl.stanford.edu/hyperdual/ for
// details of their properties and uses.
package hyperdual // imports "gonum.org/v1/gonum/num/hyperdual"

// TODO(kortschak): Handle special cases properly.
//  - Pow
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package distuv

import (
```

```
 "sort"
 "testing"

 "golang.org/x/exp/rand"
 "gonum.org/v1/gonum/floats"
)

func TestUniformProb(t *testing.T) {
 for _, test := range []struct {
  min, max, x, want float64
 }{
  {0, 1, 1, 1},
  {2, 4, 0, 0},
  {2, 4, 5, 0},
  {2, 4, 3, 0.5},
  {0, 100, 1, 0.01},
 } {
  pdf := Uniform{test.min, test.max, nil}.Prob(test.x)
  if !floats.EqualWithinAbsOrRel(pdf, test.want, 1e-15, 1e-15) {
   t.Errorf("Pdf mismatch, x = %v, min = %v, max = %v. Got %v, want %v", test.x, test.min, test.max, pdf, test.want)
  }
 }
}

func TestUniformCDF(t *testing.T) {
 for _, test := range []struct {
  min, max, x, want float64
 }{
  {0, 1, 1, 1},
  {0, 100, 100, 1},
  {0, 100, 0, 0},
  {0, 100, 50, 0.5},
  {0, 50, 10, 0.2},
 } {
  cdf := Uniform{test.min, test.max, nil}.CDF(test.x)
  if !floats.EqualWithinAbsOrRel(cdf, test.want,
 1e-15, 1e-15) {
   t.Errorf("CDF mismatch, x = %v, min = %v, max = %v. Got %v, want %v", test.x, test.min, test.max, cdf, test.want)
  }
 }
}

func TestUniform(t *testing.T) {
 src := rand.New(rand.NewSource(1))
 for i, b := range []Uniform{
  {1, 2, src},
  {0, 100, src},
  {50, 60, src},
```

```
 } {
  testUniform(t, b, i)
 }
}

func testUniform(t *testing.T, u Uniform, i int) {
 const (
  tol  = 1e-2
  n    = 1e5
  bins = 50
 )
 x := make([]float64, n)
 generateSamples(x, u)
 sort.Float64s(x)

 testRandLogProbContinuous(t, i, 0, x, u, tol, bins)
 checkMean(t, i, x, u, tol)
 checkVarAndStd(t, i, x, u, tol)
 checkExKurtosis(t, i, x, u, 7e-2)
 checkProbContinuous(t, i, x, u, 1e-3)
 checkQuantileCDFSurvival(t, i, x, u, 1e-2)
}
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// Package dualcmplx provides the anti-commutative dual complex numeric
// type and functions.
//
// See https://arxiv.org/abs/1601.01754v1 for details.
package dualcmplx // imports "gonum.org/v1/gonum/num/dualcmplx"

// TODO(kortschak): Handle special cases properly.
//  - Pow
//** github.com/dchest/passwordcheck@v0.0.0-20140527112020-b2ea14b685bb **//

{{Types "CC0-1.0"}}

Go package written in 2014 by Dmitry Chestnykh.

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This package is based on passwdqc.
http://www.openwall.com/passwdqc/
```

passwdqc license:

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$Owl: Owl/packages/passwdqc/passwdqc/LICENSE,v 1.8 2013/04/24 02:01:43 solar Exp $

```
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package sampleuv

import "gonum.org/v1/gonum/stat/distuv"

type ProposalDist struct {
 Sigma float64
}

func (p ProposalDist) ConditionalRand(y float64) float64 {
 return distuv.Normal{Mu: y, Sigma: p.Sigma}.Rand()
}

func (p ProposalDist) ConditionalLogProb(x, y float64) float64 {
 return distuv.Normal{Mu: y, Sigma: p.Sigma}.LogProb(x)
}
```

```
func ExampleMetropolisHastings_burnin() {
 n := 1000    // The number of samples to generate.
 burnin := 50 // Number of samples to ignore at the start.
 var initial float64
 // target is the distribution from which we would like to sample.
 target := distuv.Weibull{K: 5, Lambda: 0.5}
 // proposal is the proposal distribution. Here, we are choosing
 // a tight Gaussian distribution around the current location. In
 // typical problems, if Sigma is too small, it takes a lot of samples
 // to move
 around the distribution. If Sigma is too large, it can be hard
 // to find acceptable samples.
 proposal := ProposalDist{Sigma: 0.2}

 samples := make([]float64, n)
 mh := MetropolisHastings{Initial: initial, Target: target, Proposal: proposal, BurnIn: burnin}
 mh.Sample(samples)
}
//**
gitlab.com/ecp-ci/jacamar-plugins@v0.1.0
gitlab.com/ecp-ci/jacamar-ci@v0.3.2
**//

{{Types "Apache-2.0 MIT"}}

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// Package set provides integer and graph.Node sets.
package set // import "gonum.org/v1/gonum/graph/internal/set"
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// +build !noasm,!appengine,!safe
```

```
package f64

// Ger performs the rank-one operation
//  A += alpha * x * y
// where A is an mn dense matrix, x and y are vectors, and alpha is a scalar.
func Ger(m, n uintptr, alpha float64, x []float64, incX uintptr, y []float64, incY uintptr, a []float64, lda uintptr)

// GemvN computes
//  y = alpha * A * x + beta * y
// where A is an mn dense matrix, x and y are vectors, and alpha and beta are scalars.
func GemvN(m, n uintptr, alpha float64, a []float64, lda uintptr, x []float64, incX uintptr, beta float64, y []float64,
incY uintptr)

// GemvT computes
//  y = alpha * A * x + beta * y
// where A is an mn dense matrix, x and y are vectors, and alpha and beta are scalars.
func GemvT(m, n uintptr, alpha float64, a []float64, lda uintptr, x []float64, incX uintptr, beta float64, y []float64,
 incY uintptr)
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package mat

import "testing"

func leaksPanic(fn func()) (panicked bool) {
 defer func() {
  r := recover()
  panicked = r != nil
 }()
 Maybe(fn)
 return
}

func TestMaybe(t *testing.T) {
 for i, test := range []struct {
  fn     func()
  panics bool
  errors bool
 }{
  {
   fn:     func() {},
   panics: false,
   errors: false,
  },
  {
   fn:     func() { panic("panic") },
```

```
  panics: true,
  errors: false,
 },
 {
  fn:     func() { panic(Error{"panic"}) },
  panics: false,
  errors: true,
 },
} {
 panicked := leaksPanic(test.fn)
 if panicked != test.panics {
  t.Errorf("unexpected panic state for test %d: got: panicked=%t want: panicked=%t",
   i, panicked, test.panics)
 }
 if test.errors {
  err := Maybe(test.fn)
  stack, ok := err.(ErrorStack)
  if !ok {
   t.Errorf("unexpected error type: got:%T want:%T",
stack, ErrorStack{})
  }
  if stack.StackTrace == "" {
   t.Error("expected non-empty stack trace")
  }
 }
}
}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "fmt"
 "testing"
)

func TestInductanceFormat(t *testing.T) {
 for _, test := range []struct {
  value  Inductance
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 H"},
  {1.23456789, "%.1v", "1 H"},
```

```
  {1.23456789, "%20.1v", "                 1 H"},
  {1.23456789, "%20v", "        1.23456789 H"},
  {1.23456789, "%1v", "1.23456789 H"},
  {1.23456789, "%#v", "unit.Inductance(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Inductance=1.23456789 H)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
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package gonum

import (
 "testing"

 "gonum.org/v1/gonum/blas/testblas"
)

func BenchmarkDgerSmSmInc1(b *testing.B) {
 testblas.DgerBenchmark(b, impl, Sm, Sm, 1, 1)
}

func BenchmarkDgerSmSmIncN(b *testing.B) {
 testblas.DgerBenchmark(b, impl, Sm, Sm, 2, 3)
}

func BenchmarkDgerMedMedInc1(b *testing.B) {
 testblas.DgerBenchmark(b, impl, Med, Med, 1, 1)
}

func BenchmarkDgerMedMedIncN(b *testing.B) {
 testblas.DgerBenchmark(b, impl, Med, Med, 2, 3)
}

func BenchmarkDgerLgLgInc1(b *testing.B) {
 testblas.DgerBenchmark(b, impl, Lg, Lg, 1, 1)
}

func BenchmarkDgerLgLgIncN(b *testing.B) {
 testblas.DgerBenchmark(b, impl, Lg, Lg, 2, 3)
}
```

```
func BenchmarkDgerLgSmInc1(b *testing.B) {
 testblas.DgerBenchmark(b, impl, Lg, Sm, 1, 1)
}

func BenchmarkDgerLgSmIncN(b *testing.B) {
 testblas.DgerBenchmark(b, impl, Lg, Sm, 2, 3)
}

func BenchmarkDgerSmLgInc1(b
 *testing.B) {
 testblas.DgerBenchmark(b, impl, Sm, Lg, 1, 1)
}

func BenchmarkDgerSmLgIncN(b *testing.B) {
 testblas.DgerBenchmark(b, impl, Sm, Lg, 2, 3)
}
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package mathext

import (
 "math"
)

// Digamma returns the logorithmic derivative of the gamma function at x.
//  (x) = d/dx (Ln ((x)).
func Digamma(x float64) float64 {
 // This is adapted from
 // http://web.science.mq.edu.au/~mjohnson/code/digamma.c
 var result float64
 switch {
 case math.IsNaN(x), math.IsInf(x, 1):
  return x
 case math.IsInf(x, -1):
  return math.NaN()
 case x == 0:
  return math.Copysign(math.Inf(1), -x)
 case x < 0:
  if x == math.Floor(x) {
   return math.NaN()
  }
  // Reflection formula, http://dlmf.nist.gov/5.5#E4
  _, r := math.Modf(x)
  result = -math.Pi / math.Tan(math.Pi*r)
  x = 1 - x
 }
```

```
 for ; x < 7; x++ {
  // Recurrence relation, http://dlmf.nist.gov/5.5#E2
  result -= 1 / x
 }
 x -= 0.5
 xx := 1 / x
 xx2 := xx * xx
 xx4 := xx2 * xx2
 // Asymptotic expansion, http://dlmf.nist.gov/5.11#E2
 result
 += math.Log(x) + (1.0/24.0)*xx2 - (7.0/960.0)*xx4 + (31.0/8064.0)*xx4*xx2 - (127.0/30720.0)*xx4*xx4
 return result
}
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// Package cblas128 provides a simple interface to the complex128 BLAS API.
package cblas128 // import "gonum.org/v1/gonum/blas/cblas128"
//** github.com/andreasbriese/bbloom@v0.0.0-20190825152654-46b345b51c96 **//

{{Types "CC0-1.0"}}

Written in __1__ by __3__

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// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit
```

```
import (
 "fmt"
 "testing"
)

func TestLuminousIntensityFormat(t *testing.T) {
 for _, test := range []struct {
  value  LuminousIntensity
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 cd"},
  {1.23456789, "%.1v", "1 cd"},
  {1.23456789, "%20.1v", "                1 cd"},
  {1.23456789, "%20v", "       1.23456789 cd"},
  {1.23456789, "%1v", "1.23456789 cd"},
  {1.23456789, "%#v", "unit.LuminousIntensity(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.LuminousIntensity=1.23456789 cd)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
package app

import (
 "gioui.org/app/internal/window"
)

type Handle window.Handle

// PlatformHandle returns the Android platform-specific Handle.
func PlatformHandle() *Handle {
 return (*Handle)(window.PlatformHandle)
}

// androidDriver is an interface that allows the Window's run method
// to call the RegisterFragment method of the Android window driver.
type androidDriver interface {
 RegisterFragment(string)
}

// RegisterFragment constructs a Java instance of the specified class
// and registers it as a Fragment in the Context in which the View was
// created.
func (w *Window) RegisterFragment(del string) {
```

```
 go func() {
  w.driverFuncs <- func() {
   d := w.driver.(androidDriver)
   d.RegisterFragment(del)
  }
 }()
}
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package kdtree

var (
 _ Interface  = nbPoints{}
 _ Comparable = nbPoint{}
)

// nbRandoms is the maximum number of random values to sample for calculation of median of
// random elements.
var nbRandoms = 100

// nbPoint represents a point in a k-d space that satisfies the Comparable interface.
type nbPoint Point

func (p nbPoint) Compare(c Comparable, d Dim) float64 { q := c.(nbPoint); return p[d] - q[d] }
func (p nbPoint) Dims() int                           { return len(p) }
func (p nbPoint) Distance(c Comparable) float64 {
 q := c.(nbPoint)
 var sum float64
 for dim, c := range p {
  d := c - q[dim]
  sum += d * d
 }
 return sum
}

// nbPoints is a collection of point values that satisfies the Interface.
type nbPoints []nbPoint

func (p nbPoints) Index(i int) Comparable         { return p[i] }
func (p nbPoints) Len() int
                    { return len(p) }
func (p nbPoints) Pivot(d Dim) int                { return nbPlane{nbPoints: p, Dim: d}.Pivot() }
func (p nbPoints) Slice(start, end int) Interface { return p[start:end] }

// nbPlane is a wrapping type that allows a Points type be pivoted on a dimension.
type nbPlane struct {
```

```
 Dim
 nbPoints
}

func (p nbPlane) Less(i, j int) bool            { return p.nbPoints[i][p.Dim] < p.nbPoints[j][p.Dim] }
func (p nbPlane) Pivot() int                    { return Partition(p, MedianOfRandoms(p, nbRandoms)) }
func (p nbPlane) Slice(start, end int) SortSlicer { p.nbPoints = p.nbPoints[start:end]; return p }
func (p nbPlane) Swap(i, j int) {
 p.nbPoints[i], p.nbPoints[j] = p.nbPoints[j], p.nbPoints[i]
}
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package testblas

import (
 "testing"

 "gonum.org/v1/gonum/blas"
)

type Zhprer interface {
 Zhpr(uplo blas.Uplo, n int, alpha float64, x []complex128, incX int, ap []complex128)
}

func ZhprTest(t *testing.T, impl Zhprer) {
 for tc, test := range zherTestCases {
  n := len(test.x)
  for _, uplo := range []blas.Uplo{blas.Upper, blas.Lower} {
   for _, incX := range []int{-11, -2, -1, 1, 2, 7} {
    x := makeZVector(test.x, incX)
    xCopy := make([]complex128, len(x))
    copy(xCopy, x)

    ap := zPack(uplo, n, test.a, n)
    impl.Zhpr(uplo, n, test.alpha, x, incX, ap)
    a := zUnpackAsHermitian(uplo, n, ap)

    var want []complex128
    if incX > 0 {
     want = makeZGeneral(test.want, n, n, max(1, n))
    } else {
     want = makeZGeneral(test.wantRev, n, n, max(1, n))
    }

    if !zsame(x, xCopy) {
     t.Errorf("Case
```

```
 %v (uplo=%v,incX=%v,alpha=%v): unexpected modification of x", tc, uplo, incX, test.alpha)
    }
    if !zsame(want, a) {
     t.Errorf("Case %v (uplo=%v,incX=%v,alpha=%v): unexpected result\nwant: %v\ngot:  %v", tc, uplo, incX,
test.alpha, want, a)
    }
   }
  }
 }
}
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// +build !appengine,!safe

package set

import "unsafe"

// same determines whether two sets are backed by the same store. In the
// current implementation using hash maps it makes use of the fact that
// hash maps are passed as a pointer to a runtime Hmap struct. A map is
// not seen by the runtime as a pointer though, so we use unsafe to get
// the maps' pointer values to compare.
func same(a, b Nodes) bool {
 return *(*uintptr)(unsafe.Pointer(&a)) == *(*uintptr)(unsafe.Pointer(&b))
}

// intsSame determines whether two sets are backed by the same store. In the
// current implementation using hash maps it makes use of the fact that
// hash maps are passed as a pointer to a runtime Hmap struct. A map is
// not seen by the runtime as a pointer though, so we use unsafe to get
// the maps' pointer values to compare.
func intsSame(a,
 b Ints) bool {
 return *(*uintptr)(unsafe.Pointer(&a)) == *(*uintptr)(unsafe.Pointer(&b))
}

// int64sSame determines whether two sets are backed by the same store. In the
// current implementation using hash maps it makes use of the fact that
// hash maps are passed as a pointer to a runtime Hmap struct. A map is
// not seen by the runtime as a pointer though, so we use unsafe to get
// the maps' pointer values to compare.
func int64sSame(a, b Int64s) bool {
 return *(*uintptr)(unsafe.Pointer(&a)) == *(*uintptr)(unsafe.Pointer(&b))
}
```

```
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package gen

import "gonum.org/v1/gonum/graph"

// GraphBuilder is a graph that can have nodes and edges added.
type GraphBuilder interface {
 HasEdgeBetween(xid, yid int64) bool
 graph.Builder
}

func abs(a int) int {
 if a < 0 {
  return -a
 }
 return a
}
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package mathext

import "gonum.org/v1/gonum/mathext/internal/amos"

// AiryAi returns the value of the Airy function at z. The Airy function here,
// Ai(z), is one of the two linearly independent solutions to
//  y'' - y*z = 0.
// See http://mathworld.wolfram.com/AiryFunctions.html for more detailed information.
func AiryAi(z complex128) complex128 {
 // id specifies the order of the derivative to compute,
 // 0 for the function itself and 1 for the derivative.
 // kode specifies the scaling option. See the function
 // documentation for the exact behavior.
 id := 0
 kode := 1
 air, aii, _, _ := amos.Zairy(real(z), imag(z), id, kode)
 return complex(air, aii)
}

// AiryAiDeriv returns the value of the derivative of the Airy function at z. The
// Airy function here, Ai(z), is one of the two linearly independent solutions to
//
  y'' - y*z = 0.
// See http://mathworld.wolfram.com/AiryFunctions.html for more detailed information.
```

```
func AiryAiDeriv(z complex128) complex128 {
 // id specifies the order of the derivative to compute,
 // 0 for the function itself and 1 for the derivative.
 // kode specifies the scaling option. See the function
 // documentation for the exact behavior.
 id := 1
 kode := 1
 air, aii, _, _ := amos.Zairy(real(z), imag(z), id, kode)
 return complex(air, aii)
}
---
name: Proposal
about: Propose a new package or significant addition of functionality

---
<!--
Please make sure your issue title matches the Go convention; a summary
of the problem, prefixed by "proposal:" and the primary affected package.

It may be worth discussing the proposal at the Gonum discussion list
before filing the proposal issue:

https://groups.google.com/forum/#!forum/gonum-dev
-->
### Background


### Proposal


### Potential impact of proposal
<!-- Extent of change, amount of work to implement, who will do the work? etc. -->
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// Package spatial provides spatial statistical functions.
package spatial // import "gonum.org/v1/gonum/stat/spatial"
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package distuv

import (
 "sort"
 "testing"
```

```
 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/floats"
)

func TestInverseGamma(t *testing.T) {
 // Values extracted from a comparison with scipy
 for _, test := range []struct {
  x, alpha, want float64
 }{
  {0.9, 4.5, 0.050521067785046482},
  {0.04, 45, 0.10550644842525572},
  {20, 0.4, 0.0064691988681571536},
 } {
  pdf := InverseGamma{Alpha: test.alpha, Beta: 1}.Prob(test.x)
  if !floats.EqualWithinAbsOrRel(pdf, test.want, 1e-10, 1e-10) {
   t.Errorf("Pdf mismatch. Got %v, want %v", pdf, test.want)
  }
 }
 src := rand.NewSource(1)
 for i, g := range []InverseGamma{
  {Alpha: 5.6, Beta: 0.5, Src: src},
  {Alpha: 30, Beta: 1.7, Src: src},
  {Alpha: 30.2, Beta: 1.7, Src: src},
 } {
  testInverseGamma(t, g, i)
 }
}

func testInverseGamma(t *testing.T, f InverseGamma, i int) {
 const
 (
  tol  = 1e-2
  n    = 1e6
  bins = 50
 )
 x := make([]float64, n)
 generateSamples(x, f)
 sort.Float64s(x)

 testRandLogProbContinuous(t, i, 0, x, f, tol, bins)
 checkMean(t, i, x, f, tol)
 checkVarAndStd(t, i, x, f, 2e-2)
 checkExKurtosis(t, i, x, f, 2e-1)
 checkProbContinuous(t, i, x, f, 1e-3)
 checkQuantileCDFSurvival(t, i, x, f, 5e-2)
}
```

```
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package quat

import "math"

// IsInf returns true if any of real(q), imag(q), jmag(q), or kmag(q) is an infinity.
func IsInf(q Number) bool {
 return math.IsInf(q.Real, 0) || math.IsInf(q.Imag, 0) || math.IsInf(q.Jmag, 0) || math.IsInf(q.Kmag, 0)
}

// Inf returns a quaternion infinity, quaternion(+Inf, +Inf, +Inf, +Inf).
func Inf() Number {
 inf := math.Inf(1)
 return Number{Real: inf, Imag: inf, Jmag: inf, Kmag: inf}
}
//** https://github.com/ThePiachu/Golang-Koblitz-elliptic-curve-DSA-library **//

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```

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```
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package gonum

import (
 "testing"

 "gonum.org/v1/gonum/blas/testblas"
)

var impl Implementation

func TestDasum(t *testing.T) {
 testblas.DasumTest(t, impl)
}

func TestDaxpy(t *testing.T) {
 testblas.DaxpyTest(t, impl)
}

func TestDdot(t *testing.T) {
 testblas.DdotTest(t, impl)
}

func TestDnrm2(t *testing.T) {
 testblas.Dnrm2Test(t, impl)
}

func TestIdamax(t *testing.T) {
 testblas.IdamaxTest(t, impl)
}

func TestDswap(t *testing.T) {
 testblas.DswapTest(t, impl)
}
```

```
func TestDcopy(t *testing.T) {
 testblas.DcopyTest(t, impl)
}

func TestDrotg(t *testing.T) {
 testblas.DrotgTest(t, impl)
}

func TestDrotmg(t *testing.T) {
 testblas.DrotmgTest(t, impl)
}

func TestDrot(t *testing.T) {
 testblas.DrotTest(t, impl)
}

func TestDrotm(t *testing.T) {
 testblas.DrotmTest(t, impl)
}

func TestDscal(t *testing.T) {
 testblas.DscalTest(t,
 impl)
}
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package stat

import (
 "math"
 "sort"

 "gonum.org/v1/gonum/floats"
)

// CumulantKind specifies the behavior for calculating the empirical CDF or Quantile
type CumulantKind int

// List of supported CumulantKind values for the Quantile function.
// Constant values should match the R nomenclature. See
// https://en.wikipedia.org/wiki/Quantile#Estimating_the_quantiles_of_a_population
const (
 // Empirical treats the distribution as the actual empirical distribution.
 Empirical CumulantKind = 1
 // LinInterp linearly interpolates the empirical distribution between sample values, with a flat extrapolation.
 LinInterp CumulantKind = 4
```

```
)

// bhattacharyyaCoeff computes the Bhattacharyya Coefficient for probability distributions given by:
//  \sum_i \sqrt{p_i q_i}
//
// It is assumed that p and q have equal length.
func bhattacharyyaCoeff(p,
 q []float64) float64 {
 var bc float64
 for i, a := range p {
  bc += math.Sqrt(a * q[i])
 }
 return bc
}

// Bhattacharyya computes the distance between the probability distributions p and q given by:
//  -\ln ( \sum_i \sqrt{p_i q_i} )
//
// The lengths of p and q must be equal. It is assumed that p and q sum to 1.
func Bhattacharyya(p, q []float64) float64 {
 if len(p) != len(q) {
  panic("stat: slice length mismatch")
 }
 bc := bhattacharyyaCoeff(p, q)
 return -math.Log(bc)
}

// CDF returns the empirical cumulative distribution function value of x, that is
// the fraction of the samples less than or equal to q. The
// exact behavior is determined by the CumulantKind. CDF is theoretically
// the inverse of the Quantile function, though it may not be the actual inverse
// for all values q and CumulantKinds.
//
// The x data must be sorted in increasing order. If weights is nil then all
// of the weights are 1. If weights is not nil, then len(x) must equal len(weights).
//
//
 CumulantKind behaviors:
//  - Empirical: Returns the lowest fraction for which q is greater than or equal
//  to that fraction of samples
func CDF(q float64, c CumulantKind, x, weights []float64) float64 {
 if weights != nil && len(x) != len(weights) {
  panic("stat: slice length mismatch")
 }
 if floats.HasNaN(x) {
  return math.NaN()
 }
 if !sort.Float64sAreSorted(x) {
```

```
 panic("x data are not sorted")
}

if q < x[0] {
 return 0
}
if q >= x[len(x)-1] {
 return 1
}

var sumWeights float64
if weights == nil {
 sumWeights = float64(len(x))
} else {
 sumWeights = floats.Sum(weights)
}

// Calculate the index
switch c {
case Empirical:
 // Find the smallest value that is greater than that percent of the samples
 var w float64
 for i, v := range x {
  if v > q {
   return w / sumWeights
  }
  if weights == nil {
   w++
  } else {
   w += weights[i]
  }
 }
 panic("impossible")
default:
 panic("stat: bad cumulant kind")
}
}

// ChiSquare computes the chi-square
 distance between the observed frequencies 'obs' and
// expected frequencies 'exp' given by:
//  \sum_i (obs_i-exp_i)^2 / exp_i
//
// The lengths of obs and exp must be equal.
func ChiSquare(obs, exp []float64) float64 {
 if len(obs) != len(exp) {
  panic("stat: slice length mismatch")
 }
```

```
 var result float64
 for i, a := range obs {
  b := exp[i]
  if a == 0 && b == 0 {
   continue
  }
  result += (a - b) * (a - b) / b
 }
 return result
}

// CircularMean returns the circular mean of the dataset.
// atan2(\sum_i w_i * sin(alpha_i), \sum_i w_i * cos(alpha_i))
// If weights is nil then all of the weights are 1. If weights is not nil, then
// len(x) must equal len(weights).
func CircularMean(x, weights []float64) float64 {
 if weights != nil && len(x) != len(weights) {
  panic("stat: slice length mismatch")
 }

 var aX, aY float64
 if weights != nil {
  for i, v := range x {
   aX += weights[i] * math.Cos(v)
   aY += weights[i] * math.Sin(v)
  }
 } else {
  for _, v := range x {
   aX
 += math.Cos(v)
   aY += math.Sin(v)
  }
 }

 return math.Atan2(aY, aX)
}

// Correlation returns the weighted correlation between the samples of x and y
// with the given means.
//  sum_i {w_i (x_i - meanX) * (y_i - meanY)} / (stdX * stdY)
// The lengths of x and y must be equal. If weights is nil then all of the
// weights are 1. If weights is not nil, then len(x) must equal len(weights).
func Correlation(x, y, weights []float64) float64 {
 // This is a two-pass corrected implementation. It is an adaptation of the
 // algorithm used in the MeanVariance function, which applies a correction
 // to the typical two pass approach.

 if len(x) != len(y) {
```

```
 panic("stat: slice length mismatch")
}
xu := Mean(x, weights)
yu := Mean(y, weights)
var (
 sxx          float64
 syy          float64
 sxy          float64
 xcompensation float64
 ycompensation float64
)
if weights == nil {
 for i, xv := range x {
  yv := y[i]
  xd := xv - xu
  yd := yv - yu
  sxx += xd * xd
  syy +=
yd * yd
  sxy += xd * yd
  xcompensation += xd
  ycompensation += yd
 }
 // xcompensation and ycompensation are from Chan, et. al.
 // referenced in the MeanVariance function. They are analogous
 // to the second term in (1.7) in that paper.
 sxx -= xcompensation * xcompensation / float64(len(x))
 syy -= ycompensation * ycompensation / float64(len(x))

 return (sxy - xcompensation*ycompensation/float64(len(x))) / math.Sqrt(sxx*syy)

}

var sumWeights float64
for i, xv := range x {
 w := weights[i]
 yv := y[i]
 xd := xv - xu
 wxd := w * xd
 yd := yv - yu
 wyd := w * yd
 sxx += wxd * xd
 syy += wyd * yd
 sxy += wxd * yd
 xcompensation += wxd
 ycompensation += wyd
 sumWeights += w
}
```

```
 // xcompensation and ycompensation are from Chan, et. al.
 // referenced in the MeanVariance function. They are analogous
 // to the second term in (1.7) in that paper, except they use
 // the sumWeights instead of the sample count.
 sxx -= xcompensation * xcompensation / sumWeights
 syy
 -= ycompensation * ycompensation / sumWeights

 return (sxy - xcompensation*ycompensation/sumWeights) / math.Sqrt(sxx*syy)
}

// Kendall returns the weighted Tau-a Kendall correlation between the
// samples of x and y. The Kendall correlation measures the quantity of
// concordant and discordant pairs of numbers. If weights are specified then
// each pair is weighted by weights[i] * weights[j] and the final sum is
// normalized to stay between -1 and 1.
// The lengths of x and y must be equal. If weights is nil then all of the
// weights are 1. If weights is not nil, then len(x) must equal len(weights).
func Kendall(x, y, weights []float64) float64 {
 if len(x) != len(y) {
  panic("stat: slice length mismatch")
 }

 var (
  cc float64 // number of concordant pairs
  dc float64 // number of discordant pairs
  n  = len(x)
 )

 if weights == nil {
  for i := 0; i < n; i++ {
   for j := i; j < n; j++ {
    if i == j {
     continue
    }
    if math.Signbit(x[j]-x[i]) == math.Signbit(y[j]-y[i])
 {
     cc++
    } else {
     dc++
    }
   }
  }
  return (cc - dc) / float64(n*(n-1)/2)
 }

 var sumWeights float64
```

```
 for i := 0; i < n; i++ {
  for j := i; j < n; j++ {
   if i == j {
    continue
   }
   weight := weights[i] * weights[j]
   if math.Signbit(x[j]-x[i]) == math.Signbit(y[j]-y[i]) {
    cc += weight
   } else {
    dc += weight
   }
   sumWeights += weight
  }
 }
 return float64(cc-dc) / sumWeights
}

// Covariance returns the weighted covariance between the samples of x and y.
//  sum_i {w_i (x_i - meanX) * (y_i - meanY)} / (sum_j {w_j} - 1)
// The lengths of x and y must be equal. If weights is nil then all of the
// weights are 1. If weights is not nil, then len(x) must equal len(weights).
func Covariance(x, y, weights []float64) float64 {
 // This is a two-pass corrected implementation. It is an adaptation of the
 // algorithm used in the MeanVariance function, which applies a correction
 // to the typical two pass approach.

 if len(x) != len(y) {
  panic("stat:
 slice length mismatch")
 }
 xu := Mean(x, weights)
 yu := Mean(y, weights)
 return covarianceMeans(x, y, weights, xu, yu)
}

// covarianceMeans returns the weighted covariance between x and y with the mean
// of x and y already specified. See the documentation of Covariance for more
// information.
func covarianceMeans(x, y, weights []float64, xu, yu float64) float64 {
 var (
  ss           float64
  xcompensation float64
  ycompensation float64
 )
 if weights == nil {
  for i, xv := range x {
   yv := y[i]
   xd := xv - xu
```

```
  yd := yv - yu
  ss += xd * yd
  xcompensation += xd
  ycompensation += yd
 }
 // xcompensation and ycompensation are from Chan, et. al.
 // referenced in the MeanVariance function. They are analogous
 // to the second term in (1.7) in that paper.
 return (ss - xcompensation*ycompensation/float64(len(x))) / float64(len(x)-1)
}

var sumWeights float64

for i, xv := range x {
 w := weights[i]
 yv := y[i]
 wxd := w * (xv - xu)
 yd := (yv -
yu)
 ss += wxd * yd
 xcompensation += wxd
 ycompensation += w * yd
 sumWeights += w
}
// xcompensation and ycompensation are from Chan, et. al.
// referenced in the MeanVariance function. They are analogous
// to the second term in (1.7) in that paper, except they use
// the sumWeights instead of the sample count.
return (ss - xcompensation*ycompensation/sumWeights) / (sumWeights - 1)
}

// CrossEntropy computes the cross-entropy between the two distributions specified
// in p and q.
func CrossEntropy(p, q []float64) float64 {
 if len(p) != len(q) {
  panic("stat: slice length mismatch")
 }
 var ce float64
 for i, v := range p {
  if v != 0 {
   ce -= v * math.Log(q[i])
  }
 }
 return ce
}

// Entropy computes the Shannon entropy of a distribution or the distance between
// two distributions. The natural logarithm is used.
```

```
//  - sum_i (p_i * log_e(p_i))
func Entropy(p []float64) float64 {
 var e float64
 for _, v := range p {
  if v != 0 { // Entropy needs 0 * log(0) == 0.
   e
 -= v * math.Log(v)
  }
 }
 return e
}

// ExKurtosis returns the population excess kurtosis of the sample.
// The kurtosis is defined by the 4th moment of the mean divided by the squared
// variance. The excess kurtosis subtracts 3.0 so that the excess kurtosis of
// the normal distribution is zero.
// If weights is nil then all of the weights are 1. If weights is not nil, then
// len(x) must equal len(weights).
func ExKurtosis(x, weights []float64) float64 {
 mean, std := MeanStdDev(x, weights)
 if weights == nil {
  var e float64
  for _, v := range x {
   z := (v - mean) / std
   e += z * z * z * z
  }
  mul, offset := kurtosisCorrection(float64(len(x)))
  return e*mul - offset
 }

 var (
  e          float64
  sumWeights float64
 )
 for i, v := range x {
  z := (v - mean) / std
  e += weights[i] * z * z * z * z
  sumWeights += weights[i]
 }
 mul, offset := kurtosisCorrection(sumWeights)
 return e*mul - offset
}

// n is the number of samples
// see https://en.wikipedia.org/wiki/Kurtosis
func
 kurtosisCorrection(n float64) (mul, offset float64) {
 return ((n + 1) / (n - 1)) * (n / (n - 2)) * (1 / (n - 3)), 3 * ((n - 1) / (n - 2)) * ((n - 1) / (n - 3))
```

```
}

// GeometricMean returns the weighted geometric mean of the dataset
//  \prod_i {x_i ^ w_i}
// This only applies with positive x and positive weights. If weights is nil
// then all of the weights are 1. If weights is not nil, then len(x) must equal
// len(weights).
func GeometricMean(x, weights []float64) float64 {
 if weights == nil {
  var s float64
  for _, v := range x {
   s += math.Log(v)
  }
  s /= float64(len(x))
  return math.Exp(s)
 }
 if len(x) != len(weights) {
  panic("stat: slice length mismatch")
 }
 var (
  s          float64
  sumWeights float64
 )
 for i, v := range x {
  s += weights[i] * math.Log(v)
  sumWeights += weights[i]
 }
 s /= sumWeights
 return math.Exp(s)
}

// HarmonicMean returns the weighted harmonic mean of the dataset
//  \sum_i {w_i} / ( sum_i {w_i / x_i} )
// This only applies
 with positive x and positive weights.
// If weights is nil then all of the weights are 1. If weights is not nil, then
// len(x) must equal len(weights).
func HarmonicMean(x, weights []float64) float64 {
 if weights != nil && len(x) != len(weights) {
  panic("stat: slice length mismatch")
 }
 // TODO(btracey): Fix this to make it more efficient and avoid allocation.

 // This can be numerically unstable (for example if x is very small).
 // W = \sum_i {w_i}
 // hm = exp(log(W) - log(\sum_i w_i / x_i))

 logs := make([]float64, len(x))
```

```
 var W float64
 for i := range x {
  if weights == nil {
   logs[i] = -math.Log(x[i])
   W++
   continue
  }
  logs[i] = math.Log(weights[i]) - math.Log(x[i])
  W += weights[i]
 }

 // Sum all of the logs
 v := floats.LogSumExp(logs) // This computes log(\sum_i { w_i / x_i}).
 return math.Exp(math.Log(W) - v)
}

// Hellinger computes the distance between the probability distributions p and q given by:
//  \sqrt{ 1 - \sum_i \sqrt{p_i q_i} }
//
// The lengths
 of p and q must be equal. It is assumed that p and q sum to 1.
func Hellinger(p, q []float64) float64 {
 if len(p) != len(q) {
  panic("stat: slice length mismatch")
 }
 bc := bhattacharyyaCoeff(p, q)
 return math.Sqrt(1 - bc)
}

// Histogram sums up the weighted number of data points in each bin.
// The weight of data point x[i] will be placed into count[j] if
// dividers[j] <= x < dividers[j+1]. The "span" function in the floats package can assist
// with bin creation.
//
// The following conditions on the inputs apply:
//  - The count variable must either be nil or have length of one less than dividers.
//  - The values in dividers must be sorted (use the sort package).
//  - The x values must be sorted.
//  - If weights is nil then all of the weights are 1.
//  - If weights is not nil, then len(x) must equal len(weights).
func Histogram(count, dividers, x, weights []float64) []float64 {
 if weights != nil && len(x) != len(weights) {
  panic("stat: slice length mismatch")
 }
 if
 count == nil {
  count = make([]float64, len(dividers)-1)
 }
```

```
if len(dividers) < 2 {
 panic("histogram: fewer than two dividers")
}
if len(count) != len(dividers)-1 {
 panic("histogram: bin count mismatch")
}
if !sort.Float64sAreSorted(dividers) {
 panic("histogram: dividers are not sorted")
}
if !sort.Float64sAreSorted(x) {
 panic("histogram: x data are not sorted")
}
for i := range count {
 count[i] = 0
}
if len(x) == 0 {
 return count
}
if x[0] < dividers[0] {
 panic("histogram: minimum x value is less than lowest divider")
}
if dividers[len(dividers)-1] <= x[len(x)-1] {
 panic("histogram: maximum x value is greater than or equal to highest divider")
}

idx := 0
comp := dividers[idx+1]
if weights == nil {
 for _, v := range x {
  if v < comp {
   // Still in the current bucket.
   count[idx]++
   continue
  }
  // Find the next divider where v is less than the divider.
  for j := idx + 1; j < len(dividers); j++ {
   if v < dividers[j+1] {
    idx
= j
    comp = dividers[j+1]
    break
   }
  }
  count[idx]++
 }
 return count
}
```

```
 for i, v := range x {
  if v < comp {
   // Still in the current bucket.
   count[idx] += weights[i]
   continue
  }
  // Need to find the next divider where v is less than the divider.
  for j := idx + 1; j < len(count); j++ {
   if v < dividers[j+1] {
    idx = j
    comp = dividers[j+1]
    break
   }
  }
  count[idx] += weights[i]
 }
 return count
}

// JensenShannon computes the JensenShannon divergence between the distributions
// p and q. The Jensen-Shannon divergence is defined as
//  m = 0.5 * (p + q)
//  JS(p, q) = 0.5 ( KL(p, m) + KL(q, m) )
// Unlike Kullback-Liebler, the Jensen-Shannon distance is symmetric. The value
// is between 0 and ln(2).
func JensenShannon(p, q []float64) float64 {
 if len(p) != len(q) {
  panic("stat: slice length mismatch")
 }
 var js float64
 for i, v := range p {
  qi := q[i]
  m := 0.5 * (v + qi)
  if v != 0 {
   // add kl from p to m
   js += 0.5 * v
 * (math.Log(v) - math.Log(m))
  }
  if qi != 0 {
   // add kl from q to m
   js += 0.5 * qi * (math.Log(qi) - math.Log(m))
  }
 }
 return js
}

// KolmogorovSmirnov computes the largest distance between two empirical CDFs.
// Each dataset x and y consists of sample locations and counts, xWeights and
```

```
// yWeights, respectively.
//
// x and y may have different lengths, though len(x) must equal len(xWeights), and
// len(y) must equal len(yWeights). Both x and y must be sorted.
//
// Special cases are:
//  = 0 if len(x) == len(y) == 0
//  = 1 if len(x) == 0, len(y) != 0 or len(x) != 0 and len(y) == 0
func KolmogorovSmirnov(x, xWeights, y, yWeights []float64) float64 {
 if xWeights != nil && len(x) != len(xWeights) {
  panic("stat: slice length mismatch")
 }
 if yWeights != nil && len(y) != len(yWeights) {
  panic("stat: slice length mismatch")
 }
 if len(x) == 0 || len(y) == 0 {
  if len(x) == 0 && len(y) == 0 {
   return 0
  }
  return 1
 }

 if floats.HasNaN(x) {
  return math.NaN()
 }
 if
 floats.HasNaN(y) {
  return math.NaN()
 }

 if !sort.Float64sAreSorted(x) {
  panic("x data are not sorted")
 }
 if !sort.Float64sAreSorted(y) {
  panic("y data are not sorted")
 }

 xWeightsNil := xWeights == nil
 yWeightsNil := yWeights == nil

 var (
  maxDist    float64
  xSum, ySum float64
  xCdf, yCdf float64
  xIdx, yIdx int
 )

 if xWeightsNil {
```

```
 xSum = float64(len(x))
} else {
 xSum = floats.Sum(xWeights)
}

if yWeightsNil {
 ySum = float64(len(y))
} else {
 ySum = floats.Sum(yWeights)
}

xVal := x[0]
yVal := y[0]

// Algorithm description:
// The goal is to find the maximum difference in the empirical CDFs for the
// two datasets. The CDFs are piecewise-constant, and thus the distance
// between the CDFs will only change at the values themselves.
//
// To find the maximum distance, step through the data in ascending order
// of value between the two datasets. At each step, compute the empirical CDF
// and compare the local distance with the maximum distance.
//
Due to some corner cases, equal data entries must be tallied simultaneously.
for {
 switch {
 case xVal < yVal:
  xVal, xCdf, xIdx = updateKS(xIdx, xCdf, xSum, x, xWeights, xWeightsNil)
 case yVal < xVal:
  yVal, yCdf, yIdx = updateKS(yIdx, yCdf, ySum, y, yWeights, yWeightsNil)
 case xVal == yVal:
  newX := x[xIdx]
  newY := y[yIdx]
  if newX < newY {
   xVal, xCdf, xIdx = updateKS(xIdx, xCdf, xSum, x, xWeights, xWeightsNil)
  } else if newY < newX {
   yVal, yCdf, yIdx = updateKS(yIdx, yCdf, ySum, y, yWeights, yWeightsNil)
  } else {
   // Update them both, they'll be equal next time and the right
   // thing will happen.
   xVal, xCdf, xIdx = updateKS(xIdx, xCdf, xSum, x, xWeights, xWeightsNil)
   yVal, yCdf, yIdx = updateKS(yIdx, yCdf, ySum, y, yWeights, yWeightsNil)
  }
 default:
  panic("unreachable")
 }

 dist := math.Abs(xCdf - yCdf)
```

```
  if dist > maxDist {
   maxDist = dist
  }

  // Both xCdf and yCdf will equal 1 at the end, so if we have reached
 the
  // end of either sample list, the distance is as large as it can be.
  if xIdx == len(x) || yIdx == len(y) {
   return maxDist
  }
 }
}

// updateKS gets the next data point from one of the set. In doing so, it combines
// the weight of all the data points of equal value. Upon return, val is the new
// value of the data set, newCdf is the total combined CDF up until this point,
// and newIdx is the index of the next location in that sample to examine.
func updateKS(idx int, cdf, sum float64, values, weights []float64, isNil bool) (val, newCdf float64, newIdx int) {
 // Sum up all the weights of consecutive values that are equal.
 if isNil {
  newCdf = cdf + 1/sum
 } else {
  newCdf = cdf + weights[idx]/sum
 }
 newIdx = idx + 1
 for {
  if newIdx == len(values) {
   return values[newIdx-1], newCdf, newIdx
  }
  if values[newIdx-1] != values[newIdx] {
   return values[newIdx], newCdf, newIdx
  }
  if isNil {
   newCdf += 1 / sum
  } else {
   newCdf += weights[newIdx] / sum
  }
  newIdx++
 }
}

//
 KullbackLeibler computes the Kullback-Leibler distance between the
// distributions p and q. The natural logarithm is used.
//  sum_i(p_i * log(p_i / q_i))
// Note that the Kullback-Leibler distance is not symmetric;
// KullbackLeibler(p,q) != KullbackLeibler(q,p)
func KullbackLeibler(p, q []float64) float64 {
```

```
 if len(p) != len(q) {
  panic("stat: slice length mismatch")
 }
 var kl float64
 for i, v := range p {
  if v != 0 { // Entropy needs 0 * log(0) == 0.
   kl += v * (math.Log(v) - math.Log(q[i]))
  }
 }
 return kl
}

// LinearRegression computes the best-fit line
//  y = alpha + beta*x
// to the data in x and y with the given weights. If origin is true, the
// regression is forced to pass through the origin.
//
// Specifically, LinearRegression computes the values of alpha and
// beta such that the total residual
//  \sum_i w[i]*(y[i] - alpha - beta*x[i])^2
// is minimized. If origin is true, then alpha is forced to be zero.
//
// The lengths of x and y must be
 equal. If weights is nil then all of the
// weights are 1. If weights is not nil, then len(x) must equal len(weights).
func LinearRegression(x, y, weights []float64, origin bool) (alpha, beta float64) {
 if len(x) != len(y) {
  panic("stat: slice length mismatch")
 }
 if weights != nil && len(weights) != len(x) {
  panic("stat: slice length mismatch")
 }

 w := 1.0
 if origin {
  var x2Sum, xySum float64
  for i, xi := range x {
   if weights != nil {
    w = weights[i]
   }
   yi := y[i]
   xySum += w * xi * yi
   x2Sum += w * xi * xi
  }
  beta = xySum / x2Sum

  return 0, beta
 }
```

```
 xu, xv := MeanVariance(x, weights)
 yu := Mean(y, weights)
 cov := covarianceMeans(x, y, weights, xu, yu)
 beta = cov / xv
 alpha = yu - beta*xu
 return alpha, beta
}

// RSquared returns the coefficient of determination defined as
//  R^2 = 1 - \sum_i w[i]*(y[i] - alpha - beta*x[i])^2 / \sum_i w[i]*(y[i] - mean(y))^2
// for the line
//  y = alpha + beta*x
// and the data in x and y with the given weights.
//
//
 The lengths of x and y must be equal. If weights is nil then all of the
// weights are 1. If weights is not nil, then len(x) must equal len(weights).
func RSquared(x, y, weights []float64, alpha, beta float64) float64 {
 if len(x) != len(y) {
  panic("stat: slice length mismatch")
 }
 if weights != nil && len(weights) != len(x) {
  panic("stat: slice length mismatch")
 }

 w := 1.0
 yMean := Mean(y, weights)
 var res, tot, d float64
 for i, xi := range x {
  if weights != nil {
   w = weights[i]
  }
  yi := y[i]
  fi := alpha + beta*xi
  d = yi - fi
  res += w * d * d
  d = yi - yMean
  tot += w * d * d
 }
 return 1 - res/tot
}

// RSquaredFrom returns the coefficient of determination defined as
//  R^2 = 1 - \sum_i w[i]*(estimate[i] - value[i])^2 / \sum_i w[i]*(value[i] - mean(values))^2
// and the data in estimates and values with the given weights.
//
// The lengths of estimates and values must be equal. If weights is nil then
```

```
// all of the weights are 1. If weights is not nil,
 then len(values) must
// equal len(weights).
func RSquaredFrom(estimates, values, weights []float64) float64 {
 if len(estimates) != len(values) {
  panic("stat: slice length mismatch")
 }
 if weights != nil && len(weights) != len(values) {
  panic("stat: slice length mismatch")
 }

 w := 1.0
 mean := Mean(values, weights)
 var res, tot, d float64
 for i, val := range values {
  if weights != nil {
   w = weights[i]
  }
  d = val - estimates[i]
  res += w * d * d
  d = val - mean
  tot += w * d * d
 }
 return 1 - res/tot
}

// RNoughtSquared returns the coefficient of determination defined as
//  R^2 = \sum_i w[i]*(beta*x[i])^2 / \sum_i w[i]*y[i]^2
// for the line
//  y = beta*x
// and the data in x and y with the given weights. RNoughtSquared should
// only be used for best-fit lines regressed through the origin.
//
// The lengths of x and y must be equal. If weights is nil then all of the
// weights are 1. If weights is not nil, then len(x) must equal len(weights).
func RNoughtSquared(x,
 y, weights []float64, beta float64) float64 {
 if len(x) != len(y) {
  panic("stat: slice length mismatch")
 }
 if weights != nil && len(weights) != len(x) {
  panic("stat: slice length mismatch")
 }

 w := 1.0
 var ssr, tot float64
 for i, xi := range x {
  if weights != nil {
```

```
  w = weights[i]
 }
 fi := beta * xi
 ssr += w * fi * fi
 yi := y[i]
 tot += w * yi * yi
}
return ssr / tot
}

// Mean computes the weighted mean of the data set.
//  sum_i {w_i * x_i} / sum_i {w_i}
// If weights is nil then all of the weights are 1. If weights is not nil, then
// len(x) must equal len(weights).
func Mean(x, weights []float64) float64 {
 if weights == nil {
  return floats.Sum(x) / float64(len(x))
 }
 if len(x) != len(weights) {
  panic("stat: slice length mismatch")
 }
 var (
  sumValues  float64
  sumWeights float64
 )
 for i, w := range weights {
  sumValues += w * x[i]
  sumWeights += w
 }
 return sumValues / sumWeights
}

// Mode returns the most common value in the dataset
 specified by x and the
// given weights. Strict float64 equality is used when comparing values, so users
// should take caution. If several values are the mode, any of them may be returned.
func Mode(x, weights []float64) (val float64, count float64) {
 if weights != nil && len(x) != len(weights) {
  panic("stat: slice length mismatch")
 }
 if len(x) == 0 {
  return 0, 0
 }
 m := make(map[float64]float64)
 if weights == nil {
  for _, v := range x {
   m[v]++
  }
```

```
 } else {
  for i, v := range x {
   m[v] += weights[i]
  }
 }
 var (
  maxCount float64
  max      float64
 )
 for val, count := range m {
  if count > maxCount {
   maxCount = count
   max = val
  }
 }
 return max, maxCount
}

// BivariateMoment computes the weighted mixed moment between the samples x and y.
//  E[(x - _x)^r*(y - _y)^s]
// No degrees of freedom correction is done.
// The lengths of x and y must be equal. If weights is nil then all of the
// weights are 1. If weights is not nil, then len(x) must equal len(weights).
func
 BivariateMoment(r, s float64, x, y, weights []float64) float64 {
 meanX := Mean(x, weights)
 meanY := Mean(y, weights)
 if len(x) != len(y) {
  panic("stat: slice length mismatch")
 }
 if weights == nil {
  var m float64
  for i, vx := range x {
   vy := y[i]
   m += math.Pow(vx-meanX, r) * math.Pow(vy-meanY, s)
  }
  return m / float64(len(x))
 }
 if len(weights) != len(x) {
  panic("stat: slice length mismatch")
 }
 var (
  m          float64
  sumWeights float64
 )
 for i, vx := range x {
  vy := y[i]
  w := weights[i]
```

```
  m += w * math.Pow(vx-meanX, r) * math.Pow(vy-meanY, s)
  sumWeights += w
 }
 return m / sumWeights
}

// Moment computes the weighted n^th moment of the samples,
//  E[(x - )^N]
// No degrees of freedom correction is done.
// If weights is nil then all of the weights are 1. If weights is not nil, then
// len(x) must equal len(weights).
func Moment(moment float64, x, weights []float64) float64 {
 // This also checks that x and weights have the same length.
 mean
 := Mean(x, weights)
 if weights == nil {
  var m float64
  for _, v := range x {
   m += math.Pow(v-mean, moment)
  }
  return m / float64(len(x))
 }
 var (
  m          float64
  sumWeights float64
 )
 for i, v := range x {
  w := weights[i]
  m += w * math.Pow(v-mean, moment)
  sumWeights += w
 }
 return m / sumWeights
}

// MomentAbout computes the weighted n^th weighted moment of the samples about
// the given mean \mu,
//  E[(x - )^N]
// No degrees of freedom correction is done.
// If weights is nil then all of the weights are 1. If weights is not nil, then
// len(x) must equal len(weights).
func MomentAbout(moment float64, x []float64, mean float64, weights []float64) float64 {
 if weights == nil {
  var m float64
  for _, v := range x {
   m += math.Pow(v-mean, moment)
  }
  m /= float64(len(x))
  return m
```

```
 }
 if len(weights) != len(x) {
  panic("stat: slice length mismatch")
 }
 var (
  m          float64
  sumWeights float64
 )
 for i, v := range x {
  m += weights[i]
 * math.Pow(v-mean, moment)
  sumWeights += weights[i]
 }
 return m / sumWeights
}

// Quantile returns the sample of x such that x is greater than or
// equal to the fraction p of samples. The exact behavior is determined by the
// CumulantKind, and p should be a number between 0 and 1. Quantile is theoretically
// the inverse of the CDF function, though it may not be the actual inverse
// for all values p and CumulantKinds.
//
// The x data must be sorted in increasing order. If weights is nil then all
// of the weights are 1. If weights is not nil, then len(x) must equal len(weights).
//
// CumulantKind behaviors:
//  - Empirical: Returns the lowest value q for which q is greater than or equal
//  to the fraction p of samples
//  - LinInterp: Returns the linearly interpolated value
func Quantile(p float64, c CumulantKind, x, weights []float64) float64 {
 if !(p >= 0 && p <= 1) {
  panic("stat: percentile out of bounds")
 }

 if weights != nil && len(x) != len(weights) {
  panic("stat:
 slice length mismatch")
 }
 if floats.HasNaN(x) {
  return math.NaN() // This is needed because the algorithm breaks otherwise.
 }
 if !sort.Float64sAreSorted(x) {
  panic("x data are not sorted")
 }

 var sumWeights float64
 if weights == nil {
  sumWeights = float64(len(x))
```

```
 } else {
  sumWeights = floats.Sum(weights)
 }
 switch c {
 case Empirical:
  return empiricalQuantile(p, x, weights, sumWeights)
 case LinInterp:
  return linInterpQuantile(p, x, weights, sumWeights)
 default:
  panic("stat: bad cumulant kind")
 }
}

func empiricalQuantile(p float64, x, weights []float64, sumWeights float64) float64 {
 var cumsum float64
 fidx := p * sumWeights
 for i := range x {
  if weights == nil {
   cumsum++
  } else {
   cumsum += weights[i]
  }
  if cumsum >= fidx {
   return x[i]
  }
 }
 panic("impossible")
}

func linInterpQuantile(p float64, x, weights []float64, sumWeights float64) float64 {
 var cumsum float64
 fidx := p * sumWeights
 for i := range x {
  if weights == nil {
   cumsum++
  }
 else {
   cumsum += weights[i]
  }
  if cumsum >= fidx {
   if i == 0 {
    return x[0]
   }
   t := cumsum - fidx
   if weights != nil {
    t /= weights[i]
   }
   return t*x[i-1] + (1-t)*x[i]
```

```
  }
 }
 panic("impossible")
}

// Skew computes the skewness of the sample data.
// If weights is nil then all of the weights are 1. If weights is not nil, then
// len(x) must equal len(weights).
// When weights sum to 1 or less, a biased variance estimator should be used.
func Skew(x, weights []float64) float64 {

 mean, std := MeanStdDev(x, weights)
 if weights == nil {
  var s float64
  for _, v := range x {
   z := (v - mean) / std
   s += z * z * z
  }
  return s * skewCorrection(float64(len(x)))
 }
 var (
  s          float64
  sumWeights float64
 )
 for i, v := range x {
  z := (v - mean) / std
  s += weights[i] * z * z * z
  sumWeights += weights[i]
 }
 return s * skewCorrection(sumWeights)
}

// From: http://www.amstat.org/publications/jse/v19n2/doane.pdf page 7
func skewCorrection(n
 float64) float64 {
 return (n / (n - 1)) * (1 / (n - 2))
}

// SortWeighted rearranges the data in x along with their corresponding
// weights so that the x data are sorted. The data is sorted in place.
// Weights may be nil, but if weights is non-nil then it must have the same
// length as x.
func SortWeighted(x, weights []float64) {
 if weights == nil {
  sort.Float64s(x)
  return
 }
 if len(x) != len(weights) {
```

```
 panic("stat: slice length mismatch")
 }
 sort.Sort(weightSorter{
  x: x,
  w: weights,
 })
}

type weightSorter struct {
 x []float64
 w []float64
}

func (w weightSorter) Len() int          { return len(w.x) }
func (w weightSorter) Less(i, j int) bool { return w.x[i] < w.x[j] }
func (w weightSorter) Swap(i, j int) {
 w.x[i], w.x[j] = w.x[j], w.x[i]
 w.w[i], w.w[j] = w.w[j], w.w[i]
}

// SortWeightedLabeled rearranges the data in x along with their
// corresponding weights and boolean labels so that the x data are sorted.
// The data is sorted in place. Weights
 and labels may be nil, if either
// is non-nil it must have the same length as x.
func SortWeightedLabeled(x []float64, labels []bool, weights []float64) {
 if labels == nil {
  SortWeighted(x, weights)
  return
 }
 if weights == nil {
  if len(x) != len(labels) {
   panic("stat: slice length mismatch")
  }
  sort.Sort(labelSorter{
   x: x,
   l: labels,
  })
  return
 }
 if len(x) != len(labels) || len(x) != len(weights) {
  panic("stat: slice length mismatch")
 }
 sort.Sort(weightLabelSorter{
  x: x,
  l: labels,
  w: weights,
 })
```

```
}

type labelSorter struct {
 x []float64
 l []bool
}

func (a labelSorter) Len() int          { return len(a.x) }
func (a labelSorter) Less(i, j int) bool { return a.x[i] < a.x[j] }
func (a labelSorter) Swap(i, j int) {
 a.x[i], a.x[j] = a.x[j], a.x[i]
 a.l[i], a.l[j] = a.l[j], a.l[i]
}

type weightLabelSorter struct {
 x []float64
 l []bool
 w []float64
}

func (a weightLabelSorter) Len() int          { return len(a.x) }
func (a weightLabelSorter) Less(i,
 j int) bool { return a.x[i] < a.x[j] }
func (a weightLabelSorter) Swap(i, j int) {
 a.x[i], a.x[j] = a.x[j], a.x[i]
 a.l[i], a.l[j] = a.l[j], a.l[i]
 a.w[i], a.w[j] = a.w[j], a.w[i]
}

// StdDev returns the sample standard deviation.
func StdDev(x, weights []float64) float64 {
 _, std := MeanStdDev(x, weights)
 return std
}

// MeanStdDev returns the sample mean and unbiased standard deviation
// When weights sum to 1 or less, a biased variance estimator should be used.
func MeanStdDev(x, weights []float64) (mean, std float64) {
 mean, variance := MeanVariance(x, weights)
 return mean, math.Sqrt(variance)
}

// StdErr returns the standard error in the mean with the given values.
func StdErr(std, sampleSize float64) float64 {
 return std / math.Sqrt(sampleSize)
}

// StdScore returns the standard score (a.k.a. z-score, z-value) for the value x
```

```
// with the given mean and standard deviation, i.e.
//  (x - mean) / std
func StdScore(x, mean, std float64) float64 {
 return (x - mean) / std
}

//
 Variance computes the unbiased weighted sample variance:
//  \sum_i w_i (x_i - mean)^2 / (sum_i w_i - 1)
// If weights is nil then all of the weights are 1. If weights is not nil, then
// len(x) must equal len(weights).
// When weights sum to 1 or less, a biased variance estimator should be used.
func Variance(x, weights []float64) float64 {
 _, variance := MeanVariance(x, weights)
 return variance
}

// MeanVariance computes the sample mean and unbiased variance, where the mean and variance are
//  \sum_i w_i * x_i / (sum_i w_i)
//  \sum_i w_i (x_i - mean)^2 / (sum_i w_i - 1)
// respectively.
// If weights is nil then all of the weights are 1. If weights is not nil, then
// len(x) must equal len(weights).
// When weights sum to 1 or less, a biased variance estimator should be used.
func MeanVariance(x, weights []float64) (mean, variance float64) {
 // This uses the corrected two-pass algorithm (1.7), from "Algorithms for computing
 // the sample variance: Analysis and recommendations"
 by Chan, Tony F., Gene H. Golub,
 // and Randall J. LeVeque.

 // Note that this will panic if the slice lengths do not match.
 mean = Mean(x, weights)
 var (
  ss          float64
  compensation float64
 )
 if weights == nil {
  for _, v := range x {
   d := v - mean
   ss += d * d
   compensation += d
  }
  variance = (ss - compensation*compensation/float64(len(x))) / float64(len(x)-1)
  return mean, variance
 }

 var sumWeights float64
 for i, v := range x {
```

```
  w := weights[i]
  d := v - mean
  wd := w * d
  ss += wd * d
  compensation += wd
  sumWeights += w
 }
 variance = (ss - compensation*compensation/sumWeights) / (sumWeights - 1)
 return mean, variance
}
//**
   github.com/wojnosystems/go_reopen@v1.0.0
   github.com/coderconvoy/candlestick@v0.0.0-20161129102306-3081b787cd4a
   github.com/dereklstinson/gocunets@v0.0.0-20200507203743-98db5b7a50a1
**//

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package material

import (
 "image"
 "image/color"
```

```
 "gioui.org/f32"
 "gioui.org/font"
 "gioui.org/layout"
 "gioui.org/op/paint"
 "gioui.org/text"
 "gioui.org/unit"
 "golang.org/x/exp/shiny/materialdesign/icons"
)

type Theme struct {
 Shaper *text.Shaper
 Color  struct {
  Primary color.RGBA
  Text    color.RGBA
  Hint    color.RGBA
  InvText color.RGBA
 }
 TextSize              unit.Value
 checkBoxCheckedIcon   *Icon
 checkBoxUncheckedIcon *Icon
 radioCheckedIcon      *Icon
 radioUncheckedIcon    *Icon
}

func NewTheme() *Theme {
 t := &Theme{
  Shaper: font.Default(),
 }
 t.Color.Primary = rgb(0x3f51b5)
 t.Color.Text = rgb(0x000000)
 t.Color.Hint = rgb(0xbbbbbb)
 t.Color.InvText = rgb(0xffffff)
 t.TextSize = unit.Sp(16)

 t.checkBoxCheckedIcon = mustIcon(NewIcon(icons.ToggleCheckBox))
 t.checkBoxUncheckedIcon = mustIcon(NewIcon(icons.ToggleCheckBoxOutlineBlank))
 t.radioCheckedIcon = mustIcon(NewIcon(icons.ToggleRadioButtonChecked))
 t.radioUncheckedIcon
 = mustIcon(NewIcon(icons.ToggleRadioButtonUnchecked))

 return t
}

func mustIcon(ic *Icon, err error) *Icon {
 if err != nil {
  panic(err)
 }
```

```
 return ic
}

func rgb(c uint32) color.RGBA {
 return argb(0xff000000 | c)
}

func argb(c uint32) color.RGBA {
 return color.RGBA{A: uint8(c >> 24), R: uint8(c >> 16), G: uint8(c >> 8), B: uint8(c)}
}

func fill(gtx *layout.Context, col color.RGBA) {
 cs := gtx.Constraints
 d := image.Point{X: cs.Width.Min, Y: cs.Height.Min}
 dr := f32.Rectangle{
  Max: f32.Point{X: float32(d.X), Y: float32(d.Y)},
 }
 paint.ColorOp{Color: col}.Add(gtx.Ops)
 paint.PaintOp{Rect: dr}.Add(gtx.Ops)
 gtx.Dimensions = layout.Dimensions{Size: d}
}
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package sampleuv

import "gonum.org/v1/gonum/stat/distuv"

func max(a, b int) int {
 if a < b {
  return b
 }
 return a
}

func ExampleMetropolisHastings_samplingRate() {
 // See Burnin example for a description of these quantities.
 n := 1000
 burnin := 300
 var initial float64
 target := distuv.Weibull{K: 5, Lambda: 0.5}
 proposal := ProposalDist{Sigma: 0.2}

 // Successive samples are correlated with one another through the
 // Markov Chain defined by the proposal distribution. One may use
 // a sampling rate to decrease the correlation in the samples for
 // an increase in computation cost. The rate parameter specifies
```

```
 // that for every accepted sample stored in `samples`, rate - 1 accepted
 // samples are not stored in `samples`.
 rate := 50

 mh := MetropolisHastings{
  Initial:  initial,
  Target:   target,
  Proposal:
 proposal,
  BurnIn:   burnin,
  Rate:     rate,
 }

 samples := make([]float64, n)
 mh.Sample(samples)
}
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//go:generate ./single_precision.bash

package gonum

import (
 "math"

 "gonum.org/v1/gonum/internal/math32"
)

type Implementation struct{}

// [SD]gemm behavior constants. These are kept here to keep them out of the
// way during single precision code genration.
const (
 blockSize   = 64 // b x b matrix
 minParBlock = 4  // minimum number of blocks needed to go parallel
 buffMul     = 4  // how big is the buffer relative to the number of workers
)

// subMul is a common type shared by [SD]gemm.
type subMul struct {
 i, j int // index of block
}

func max(a, b int) int {
 if a > b {
  return a
```

```
 }
 return b
}

func min(a, b int) int {
 if a > b {
  return b
 }
 return a
}

// blocks returns the number of divisions of the dimension length with the given
// block size.
func blocks(dim, bsize int) int {
 return (dim + bsize - 1)
 / bsize
}

// dcabs1 returns |real(z)|+|imag(z)|.
func dcabs1(z complex128) float64 {
 return math.Abs(real(z)) + math.Abs(imag(z))
}

// scabs1 returns |real(z)|+|imag(z)|.
func scabs1(z complex64) float32 {
 return math32.Abs(real(z)) + math32.Abs(imag(z))
}
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package math32

import "math"

// Signbit returns true if x is negative or negative zero.
func Signbit(x float32) bool {
 return math.Float32bits(x)&(1<<31) != 0
}
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// Package optimize implements algorithms for finding the optimum value of functions.
```

package optimize // import "gonum.org/v1/gonum/optimize"
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```
package floats_test

import (
 "bufio"
 "fmt"
 "log"
 "strings"

 "gonum.org/v1/gonum/floats"
 "gonum.org/v1/gonum/stat"
)

func ExampleParseWithNA() {
 // Calculate the mean of a list of numbers
 // ignoring missing values.
```

```
 const data = `6
missing
4
`

 var vals, weights []float64
 sc := bufio.NewScanner(strings.NewReader(data))
 for sc.Scan() {
  v, w, err := floats.ParseWithNA(sc.Text(), "missing")
  if err != nil {
   log.Fatal(err)
  }
  vals = append(vals, v)
  weights = append(weights, w)
 }
 err := sc.Err()
 if err != nil {
  log.Fatal(err)
 }
 fmt.Println(stat.Mean(vals, weights))

 // Output:
 // 5
}
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// Package stat provides generalized statistical functions.
package stat // import "gonum.org/v1/gonum/stat"
```

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Gonum LAPACK
[![GoDoc](https://godoc.org/gonum.org/v1/gonum/lapack?status.svg)](https://godoc.org/gonum.org/v1/gonum/lapack)
======

A collection of packages to provide LAPACK functionality for the Go programming
language (http://golang.org). This provides a partial implementation in native go
and a wrapper using cgo to a c-based implementation.

Installation

```
go get gonum.org/v1/gonum/lapack/...
```

Packages

lapack

Defines the LAPACK API based on http://www.netlib.org/lapack/lapacke.html

lapack/gonum

Go implementation of the LAPACK API (incomplete, implements the `float64` API).

lapack/lapack64

Wrappers for an implementation of the double (i.e., `float64`) precision real parts of
the LAPACK API.
[<img src="https://avatars1.githubusercontent.com/u/3771091?v=3&s=30">](https://github.com/gonum) Working Together

The Gonum project welcomes contributions from all. Contributors should foster an open and welcoming environment. When contributing or otherwise participating, please:

- Be friendly and welcoming
- Be patient
- Be thoughtful
- Be respectful
- Be charitable
- Avoid destructive behavior

```
Excerpted from the [Go conduct document](https://golang.org/conduct).
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "fmt"
 "testing"
)

func TestAngleFormat(t *testing.T) {
 for _, test := range []struct {
  value  Angle
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 rad"},
  {1.23456789, "%.1v", "1 rad"},
  {1.23456789, "%20.1v", "               1 rad"},
  {1.23456789, "%20v", "      1.23456789 rad"},
  {1.23456789, "%1v", "1.23456789 rad"},
  {1.23456789, "%#v", "unit.Angle(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Angle=1.23456789 rad)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
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package distmat

var badDim = "distmat: dimension mismatch"
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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// license that can be found in the LICENSE file.

package unit
```

```
import (
 "errors"
 "fmt"
 "math"
 "unicode/utf8"
)

// Mole represents an amount in moles.
type Mole float64

const Mol Mole = 1

// Unit converts the Mole to a *Unit
func (n Mole) Unit() *Unit {
 return New(float64(n), Dimensions{
  MoleDim: 1,
 })
}

// Mole allows Mole to implement a Moleer interface
func (n Mole) Mole() Mole {
 return n
}

// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (n *Mole) From(u Uniter) error {
 if !DimensionsMatch(u, Mol) {
  *n = Mole(math.NaN())
  return errors.New("Dimension mismatch")
 }
 *n = Mole(u.Unit().Value())
 return nil
}

func (n Mole) Format(fs fmt.State, c rune) {
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)",
 n, float64(n))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
```

```
  const unit = " mol"
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(n))
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(n))
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(n))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(n))
  }
  fmt.Fprint(fs, unit)
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g mol)", c, n, float64(n))
 }
}
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package gonum

import "gonum.org/v1/gonum/blas"

// Dgeql2 computes the QL factorization of the mn matrix A. That is, Dgeql2
// computes Q and L such that
//  A = Q * L
// where Q is an mm orthonormal matrix and L is a lower trapezoidal matrix.
//
// Q is represented as a product of elementary reflectors,
//  Q = H_{k-1} * ... * H_1 * H_0
// where k = min(m,n) and each H_i has the form
//  H_i = I - tau[i] * v_i * v_i
// Vector v_i has v[m-k+i+1:m] = 0, v[m-k+i] = 1, and v[:m-k+i+1] is stored on
// exit in A[0:m-k+i-1, n-k+i].
//
// tau must have length at least min(m,n), and Dgeql2 will panic otherwise.
//
// work is temporary memory storage and must have length at least n.
//
// Dgeql2 is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dgeql2(m, n int, a []float64, lda int, tau, work []float64)
 {
 switch {
 case m < 0:
  panic(mLT0)
 case n < 0:
  panic(nLT0)
```

```
 case lda < max(1, n):
  panic(badLdA)
 }

 // Quick return if possible.
 k := min(m, n)
 if k == 0 {
  return
 }

 switch {
 case len(a) < (m-1)*lda+n:
  panic(shortA)
 case len(tau) < k:
  panic(shortTau)
 case len(work) < n:
  panic(shortWork)
 }

 var aii float64
 for i := k - 1; i >= 0; i-- {
  // Generate elementary reflector H_i to annihilate A[0:m-k+i-1, n-k+i].
  aii, tau[i] = impl.Dlarfg(m-k+i+1, a[(m-k+i)*lda+n-k+i], a[n-k+i:], lda)

  // Apply H_i to A[0:m-k+i, 0:n-k+i-1] from the left.
  a[(m-k+i)*lda+n-k+i] = 1
  impl.Dlarf(blas.Left, m-k+i+1, n-k+i, a[n-k+i:], lda, tau[i], a, lda, work)
  a[(m-k+i)*lda+n-k+i] = aii
 }
}
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package gonum

import "gonum.org/v1/gonum/blas"

// Dlaset sets the off-diagonal elements of A to alpha, and the diagonal
// elements to beta. If uplo == blas.Upper, only the elements in the upper
// triangular part are set. If uplo == blas.Lower, only the elements in the
// lower triangular part are set. If uplo is otherwise, all of the elements of A
// are set.
//
// Dlaset is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dlaset(uplo blas.Uplo, m, n int, alpha, beta float64, a []float64, lda int) {
 switch {
 case m < 0:
```

```
 panic(mLT0)
case n < 0:
 panic(nLT0)
case lda < max(1, n):
 panic(badLdA)
}

minmn := min(m, n)
if minmn == 0 {
 return
}

if len(a) < (m-1)*lda+n {
 panic(shortA)
}

if uplo == blas.Upper {
 for i := 0; i < m; i++ {
  for j := i + 1; j < n; j++ {
   a[i*lda+j]
= alpha
  }
 }
} else if uplo == blas.Lower {
 for i := 0; i < m; i++ {
  for j := 0; j < min(i+1, n); j++ {
   a[i*lda+j] = alpha
  }
 }
} else {
 for i := 0; i < m; i++ {
  for j := 0; j < n; j++ {
   a[i*lda+j] = alpha
  }
 }
}
for i := 0; i < minmn; i++ {
 a[i*lda+i] = beta
}
}
```

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```
package cephes

import "math"
```

```
/*
Additional copyright information:

Code in this package is adapted from the Cephes library (http://www.netlib.org/cephes/).
There is no explicit licence on Netlib, but the author has agreed to a BSD release.
See https://github.com/deepmind/torch-cephes/blob/master/LICENSE.txt and
https://lists.debian.org/debian-legal/2004/12/msg00295.html
*/

var (
 badParamOutOfBounds         = "cephes: parameter out of bounds"
 badParamFunctionSingularity = "cephes: function singularity"
)

const (
 machEp  = 1.0 / (1 << 53)
 maxLog  = 1024 * math.Ln2
 minLog  = -1075 * math.Ln2
 maxIter = 2000
)
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package testlapack

import (
 "testing"

 "gonum.org/v1/gonum/blas"
)

type Dlauumer interface {
 Dlauum(uplo blas.Uplo, n int, a []float64, lda int)
}

func DlauumTest(t *testing.T, impl Dlauumer) {
 for _, uplo := range []blas.Uplo{blas.Upper, blas.Lower} {
  name := "Upper"
  if uplo == blas.Lower {
   name = "Lower"
  }
  t.Run(name, func(t *testing.T) {
   // Include small and large sizes to make sure that both
   // unblocked and blocked paths are taken.
   ns := []int{0, 1, 2, 3, 4, 5, 10, 25, 31, 32, 33, 63, 64, 65, 127, 128, 129}
   dlauuTest(t, impl.Dlauum, uplo, ns)
  })
```

```
 }
}
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package c64

import (
 "fmt"
 "testing"
)

var benchSink complex64

func BenchmarkDotUnitary(t *testing.B) {
 for _, tst := range []struct {
  name string
  f    func(x, y []complex64) complex64
 }{
  {"DotcUnitary", DotcUnitary},
  {"DotuUnitary", DotuUnitary},
 } {
  for _, v := range []int64{1, 2, 3, 4, 5, 10, 100, 1e3, 5e3, 1e4, 5e4} {
   t.Run(fmt.Sprintf("%s-%d", tst.name, v), func(b *testing.B) {
    x, y := x[:v], y[:v]
    b.SetBytes(128 * v)
    for i := 0; i < b.N; i++ {
     benchSink = tst.f(x, y)
    }
   })
  }
 }
}

func BenchmarkDotInc(t *testing.B) {
 for _, tst := range []struct {
  name string
  f    func(x, y []complex64, n, incX, incY, ix, iy uintptr) complex64
 }{
  {"DotcInc", DotcInc},
  {"DotuInc", DotuInc},
 } {
  for _, ln := range []int{1, 2, 3, 4, 5, 10, 100, 1e3, 5e3, 1e4, 5e4} {
   for _, inc :=
 range []int{1, 2, 4, 10, -1, -2, -4, -10} {
    t.Run(fmt.Sprintf("%s-%d-inc%d", tst.name, ln, inc), func(b *testing.B) {
     b.SetBytes(int64(128 * ln))
```

```
     var idx int
     if inc < 0 {
      idx = (-ln + 1) * inc
     }
     for i := 0; i < b.N; i++ {
      benchSink = tst.f(x, y, uintptr(ln), uintptr(inc), uintptr(inc), uintptr(idx), uintptr(idx))
     }
    })
   }
  }
 }
}
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package testblas

import (
 "testing"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/floats"
)

type Dsymver interface {
 Dsymv(ul blas.Uplo, n int, alpha float64, a []float64, lda int, x []float64, incX int, beta float64, y []float64, incY int)
}

func DsymvTest(t *testing.T, blasser Dsymver) {
 for i, test := range []struct {
  ul    blas.Uplo
  n     int
  a     [][]float64
  x     []float64
  y     []float64
  alpha float64
  beta  float64
  ans   []float64
 }{
  {
   ul: blas.Upper,
   n:  3,
   a: [][]float64{
    {5, 6, 7},
    {0, 8, 10},
    {0, 0, 13},
   },
```

```
  x:     []float64{3, 4, 5},
  y:     []float64{6, 7, 8},
  alpha: 2.1,
  beta:  -3,
  ans:   []float64{137.4, 189, 240.6},
 },
 {
  ul: blas.Lower,
  n:  3,
  a: [][]float64{
   {5, 0, 0},
   {6, 8, 0},
   {7, 10, 13},
  },
  x:     []float64{3,
4, 5},
  y:     []float64{6, 7, 8},
  alpha: 2.1,
  beta:  -3,
  ans:   []float64{137.4, 189, 240.6},
 },
} {
 incTest := func(incX, incY, extra int) {
  x := makeIncremented(test.x, incX, extra)
  y := makeIncremented(test.y, incY, extra)
  aFlat := flatten(test.a)
  ans := makeIncremented(test.ans, incY, extra)

  blasser.Dsymv(test.ul, test.n, test.alpha, aFlat, test.n, x, incX, test.beta, y, incY)
  if !floats.EqualApprox(ans, y, 1e-14) {
   t.Errorf("Case %v, incX=%v, incY=%v: Want %v, got %v.", i, incX, incY, ans, y)
  }
 }
 incTest(1, 1, 0)
 incTest(2, 3, 0)
 incTest(3, 2, 0)
 incTest(-3, 2, 0)
 incTest(-2, 4, 0)
 incTest(2, -1, 0)
 incTest(-3, -4, 3)
}
}
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package mathext
```

```
import (
 "math"
 "testing"
)

func TestMvLgamma(t *testing.T) {
 // Values compared with scipy
 for i, test := range []struct {
  v   float64
  dim int
  ans float64
 }{
  {10, 5, 58.893841851237397},
  {3, 1, 0.69314718055994529},
 } {
  ans := MvLgamma(test.v, test.dim)
  if math.Abs(test.ans-ans) > 1e-14 {
   t.Errorf("Case %v. got=%v want=%v.", i, ans, test.ans)
  }
 }
}
// SPDX-License-Identifier: Unlicense OR MIT

package headless

import (
 "errors"
 "syscall/js"

 "gioui.org/app/internal/gl"
)

type jsContext struct {
 ctx js.Value
 f   *gl.Functions
}

func newContext() (*jsContext, error) {
 version := 2
 doc := js.Global().Get("document")
 cnv := doc.Call("createElement", "canvas")
 ctx := cnv.Call("getContext", "webgl2")
 if ctx.IsNull() {
  version = 1
  ctx = cnv.Call("getContext", "webgl")
 }
 if ctx.IsNull() {
  return nil, errors.New("headless: webgl is not supported")
```

```
 }
 f := &gl.Functions{Ctx: ctx}
 if err := f.Init(version); err != nil {
  return nil, err
 }
 c := &jsContext{
  ctx: ctx,
  f:   f,
 }
 return c, nil
}

func (c *jsContext) Functions() *gl.Functions {
 return c.f
}

func (c *jsContext) Release() {
}

func (c *jsContext) ReleaseCurrent() {
}

func (c *jsContext) MakeCurrent() error {
 return nil
}
#!/usr/bin/env bash
# MIT licenses will each have a unique MD5 sum since they contain a unique copyright.
# This script will read the license file into memory, strip out the copyright, and then
# generate an MD5 that is not unique and can be matched against a known MIT MD5 sum.
set -e

calculate_md5_sum() {
 local FILE="$1"

 # Read the contents of the file into a variable
 local raw_license_text=$(<"$FILE")

 # Convert to lowercase
 local lowercase_license_text="${raw_license_text,,}"

 # Remove anything before the beginning of the license
 local stripped_license_text=$(awk '/permission is hereby granted,/{p=1} p' <<< "$lowercase_license_text")

 # Replace line breaks (Windows or Linux) with a single space
 local replaced_linebreaks=$(tr '\r\n' ' ' <<< "$stripped_license_text")

 # Replace multiple spaces with a single space
 local normalized_license_text=$(tr -s ' ' <<< "$replaced_linebreaks")
```

```
 # Strip away any non-printable, non-whitespace characters
 local clean_unprintable_license_text=$(tr
 -cd '[:print:][:space:]' <<< "$normalized_license_text")

 # Remove punctuation and special characters
 local clean_license_text=$(echo "$clean_unprintable_license_text" | sed 's/[^a-zA-Z ]//g')

 # Calculate the MD5 sum of the cleaned license text
 local MD5SUM=$(echo -n "$clean_license_text" | md5sum | awk '{print $1}')

 # Output the MD5 sum
 echo "$MD5SUM"
}

# Check if the FILE argument is provided
if [ -z "$1" ]; then
 echo "Please provide a FILE as an argument."
 exit 1
fi

# Invoke the function with the provided FILE argument
calculate_md5_sum "$1"
//** github.com/tendermint/dex-demo@v0.0.2 **//

{{Types "Apache-2.0"}}

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```

1.3541 stdlib go1.21.6

1.3541.1 Notifications :

This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/)
This product includes cryptographic software written by Eric Young (eay@cryptsoft.com).
This product includes software written by Tim Hudson (tjh@cryptsoft.com).

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```

```
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package quat

// Conj returns the quaternion conjugate of q.
func Conj(q Number) Number {
 return Number{Real: q.Real, Imag: -q.Imag, Jmag: -q.Jmag, Kmag: -q.Kmag}
}

// Inv returns the quaternion inverse of q.
func Inv(q Number) Number {
 if IsInf(q) {
  return zero
 }
 a := Abs(q)
 return Scale(1/(a*a), Conj(q))
}
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package licenses

// Files we should ignore.
// Set of "modulePath filePath".
var ignoreFiles = map[string]bool{
 // We told Elias Naur to put a sentence about dual-licensing into his COPYING file.
 // We no longer need it (since we now accept both licenses), but it fails detection
 // so we have to ignore it.
 "gioui.org COPYING": true,
}
---
name: Bug Report
about: Report a problem with Gonum

---
<!--
Please make sure your issue title matches the Go convention; a summary
of the problem, prefixed by the primary affected package.
-->
### What are you trying to do?


### What did you do?
<!--
Please include a link to a minimal reproducer here. Preferably this should
```

be a complete runnable example at https://play.golang.org/.
-->

What did you expect to happen?

What actually happened?

What version of Go and Gonum are you using?
<!--
Paste the output of `go version` and if you are installing Gonum from source, paste
the output of `(cd $(go env GOPATH)/src/gonum.org/v1/gonum && git rev-parse HEAD)`.
If you are using modules, also paste the output of `grep gonum.org/v1/gonum go.sum`,
executed in the root of your dependent module.
-->

Does this issue reproduce with the current master?
formats/dot

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OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
```
      SUBROUTINE XERROR(MESS,NMESS,L1,L2)
C
```

```
C     THIS IS A DUMMY XERROR ROUTINE TO PRINT ERROR MESSAGES WITH NMESS
C     CHARACTERS. L1 AND L2 ARE DUMMY PARAMETERS TO MAKE THIS CALL
C     COMPATIBLE WITH THE SLATEC XERROR ROUTINE. THIS IS A FORTRAN 77
C     ROUTINE.
C
      CHARACTER*(*) MESS
      NN=NMESS/70
      NR=NMESS-70*NN
      IF(NR.NE.0) NN=NN+1
      K=1
      PRINT 900
  900 FORMAT(/)
      DO 10 I=1,NN
        KMIN=MIN0(K+69,NMESS)
        PRINT *, MESS(K:KMIN)
        K=K+70
   10 CONTINUE
      PRINT 900
      RETURN
      END
```

```
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package distuv

import (
 "sort"
 "testing"

 "golang.org/x/exp/rand"
)

func TestBernouilli(t *testing.T) {
 src := rand.New(rand.NewSource(1))
 for i, dist := range []Bernoulli{
  {P: 0.5, Src: src},
  {P: 0.9, Src: src},
  {P: 0.2, Src: src},
 } {
  testBernouilli(t, dist, i)
 }
}

func testBernouilli(t *testing.T, dist Bernoulli, i int) {
 const (
  tol  = 1e-2
  n    = 3e6
```

```
 bins = 50
)
x := make([]float64, n)
generateSamples(x, dist)
sort.Float64s(x)

checkMean(t, i, x, dist, tol)
checkVarAndStd(t, i, x, dist, tol)
checkEntropy(t, i, x, dist, tol)
checkExKurtosis(t, i, x, dist, tol)
checkSkewness(t, i, x, dist, tol)
checkProbDiscrete(t, i, x, dist, tol)
}
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// Package parser provides generated internal parsing functions for DOT parsing.
package parser // import "gonum.org/v1/gonum/graph/formats/dot/internal/parser"
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// Package flow provides control flow analysis functions.
package flow // import "gonum.org/v1/gonum/graph/flow"
//** github.com/euphoria-io/heim@v0.0.0-20191219050951-978c921063e6 **//

{{Types "CC-BY-4.0 MIT"}}

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```
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// Package r2 provides 2D vectors and boxes and operations on them.
package r2 // import "gonum.org/v1/gonum/spatial/r2"
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package optimize_test

import (
 "fmt"
 "log"

 "gonum.org/v1/gonum/optimize"
 "gonum.org/v1/gonum/optimize/functions"
)

func ExampleMinimize() {
 p := optimize.Problem{
  Func: functions.ExtendedRosenbrock{}.Func,
  Grad: functions.ExtendedRosenbrock{}.Grad,
 }

 x := []float64{1.3, 0.7, 0.8, 1.9, 1.2}
 result, err := optimize.Minimize(p, x, nil, nil)
 if err != nil {
  log.Fatal(err)
 }
 if err = result.Status.Err(); err != nil {
  log.Fatal(err)
 }
 fmt.Printf("result.Status: %v\n", result.Status)
 fmt.Printf("result.X: %0.4g\n", result.X)
 fmt.Printf("result.F: %0.4g\n", result.F)
 fmt.Printf("result.Stats.FuncEvaluations: %d\n", result.Stats.FuncEvaluations)
 // Output:
 // result.Status: GradientThreshold
 // result.X: [1 1 1 1 1]
 // result.F: 4.98e-30
 // result.Stats.FuncEvaluations: 31
}
// +build aix darwin dragonfly freebsd linux netbsd openbsd solaris

package mem
```

```
import (
 "unsafe"

 "golang.org/x/sys/unix"
)

type slice struct {
 addr unsafe.Pointer
 len  int
 cap  int
}

func mmap(size uint) (unsafe.Pointer, error) {
 b, err := unix.Mmap(-1, 0, int(size), unix.PROT_READ|unix.PROT_WRITE,
unix.MAP_PRIVATE|unix.MAP_ANONYMOUS)
 if err != nil {
  return nil, err
 }
 sl := (*slice)(unsafe.Pointer(&b))
 return sl.addr, nil
}

func munmap(p unsafe.Pointer) error {
 size := int(((*header)(p)).size + szheader)
 b := *(*[]byte)(unsafe.Pointer(&slice{p, size, size}))
 return unix.Munmap(b)
}
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package mathext

import "gonum.org/v1/gonum/mathext/internal/cephes"

// Zeta computes the Riemann zeta function of two arguments.
//  Zeta(x,q) = \sum_{k=0}^{\infty} (k+q)^{-x}
// Note that Zeta returns +Inf if x is 1 and will panic if x is less than 1,
// q is either zero or a negative integer, or q is negative and x is not an
// integer.
//
// See http://mathworld.wolfram.com/HurwitzZetaFunction.html
// or https://en.wikipedia.org/wiki/Multiple_zeta_function#Two_parameters_case
// for more detailed information.
func Zeta(x, q float64) float64 {
 return cephes.Zeta(x, q)
}
```

```
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// Package fourier provides functions to perform Discrete Fourier Transforms.
package fourier // import "gonum.org/v1/gonum/fourier"
// SPDX-License-Identifier: Unlicense OR MIT

// +build linux,!android freebsd

package window

import (
 "errors"
)

var mainDone = make(chan struct{})

func Main() {
 <-mainDone
}

// instead of creating files with build tags for each combination of wayland +/- x11
// let each driver initialize these variables with their own version of createWindow.
var wlDriver, x11Driver func(Callbacks, *Options) error

func NewWindow(window Callbacks, opts *Options) error {
 var errFirst, err error
 if wlDriver != nil {
  if err = wlDriver(window, opts); err == nil {
   return nil
  }
  errFirst = err
 }
 if x11Driver != nil {
  if err = x11Driver(window, opts); err == nil {
   return nil
  }
  if errFirst == nil {
   errFirst = err
  }
 }
 if errFirst != nil {
  return errFirst
 }
 return errors.New("app: no window driver available")
}
```

```
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// Package distmat provides probability distributions over matrices.
package distmat // import "gonum.org/v1/gonum/stat/distmat"
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// +build cblas

package mat

import (
 "gonum.org/v1/gonum/blas/blas64"
 "gonum.org/v1/netlib/blas/netlib"
)

func init() {
 blas64.Use(netlib.Implementation{})
}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "fmt"
 "testing"
)

func TestCapacitanceFormat(t *testing.T) {
 for _, test := range []struct {
  value  Capacitance
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 F"},
  {1.23456789, "%.1v", "1 F"},
  {1.23456789, "%20.1v", "                 1 F"},
  {1.23456789, "%20v", "        1.23456789 F"},
  {1.23456789, "%1v", "1.23456789 F"},
  {1.23456789, "%#v", "unit.Capacitance(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Capacitance=1.23456789 F)"},
```

```
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
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package encoding

import "gonum.org/v1/gonum/graph"

// Builder is a graph that can have user-defined nodes and edges added.
type Builder interface {
 graph.Graph
 graph.Builder
}

// MultiBuilder is a graph that can have user-defined nodes and edges added.
type MultiBuilder interface {
 graph.Multigraph
 graph.MultigraphBuilder
}

// AttributeSetter is implemented by types that can set an encoded graph
// attribute.
type AttributeSetter interface {
 SetAttribute(Attribute) error
}

// Attributer defines graph.Node or graph.Edge values that can
// specify graph attributes.
type Attributer interface {
 Attributes() []Attribute
}

// Attribute is an encoded key value attribute pair use in graph encoding.
type Attribute struct {
 Key, Value string
}
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// Package iterator provides node, edge and line iterators.
```

```
//
// The iterators provided satisfy the graph.Nodes, graph.Edges and
// graph.Lines interfaces.
package iterator
---
name: Question
about: Ask at the Gonum discussion list https://groups.google.com/forum/#!forum/gonum-dev

---
<!--
For question about usage or similar, please ask at the Gonum discussion list
rather than filing an issue:

https://groups.google.com/forum/#!forum/gonum-dev
-->

# :no_entry_sign: INVALID :no_entry_sign:
{
 "nodes": [
 { "data": { "id": "compound-1" } },
 { "data": { "id": "compound-2" } },
 { "data": { "id": "compound-3" } },
 { "data": { "id": "b", "parent": "compound-1" } },
 { "data": { "id": "c", "parent": "compound-1" } },
 { "data": { "id": "a", "parent": "compound-2" } },
 { "data": { "id": "d", "parent": "compound-3" } },
 { "data": { "id": "e", "parent": "compound-3" } },
 { "data": { "id": "f" } }
 ],
 "edges": [
 { "data": { "id": "ab", "source": "a", "target": "b" } },
 { "data": { "id": "bc", "source": "b", "target": "c" } },
 { "data": { "id": "ac", "source": "a", "target": "c" } },
 { "data": { "id": "cd", "source": "c", "target": "d" } },
 { "data": { "id": "de", "source": "d", "target": "e" } },
 { "data": { "id": "df", "source": "d", "target": "f" } },
 { "data": { "id": "af", "source": "a", "target": "f" } }
 ]
}
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// Package sampleuv implements advanced sampling routines from explicit and implicit
// probability distributions.
//
// Each sampling routine is implemented as a stateless function with a
// complementary wrapper type. The wrapper types allow the sampling routines
```

```
// to implement interfaces.
package sampleuv // import "gonum.org/v1/gonum/stat/sampleuv"
//**
source: https://github.com/rocketlaunchr/dataframe-go/blob/master/LICENSE
**//
{{Types "MIT"}}

{{template "mit-grant"}}
{{template "mit-conditions"}}
{{template "mit-disclaimer"}}

The usage of this software must not be knowingly used for an application
that will be directly or indirectly used for military purposes.

All forks of this package must be subject to the above provisions.
This only applies to the fork itself and NOT the product(s) derived from this package
or a fork of this package.
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package ops

import (
 "encoding/binary"
 "math"

 "gioui.org/f32"
 "gioui.org/internal/opconst"
 "gioui.org/op"
)

func DecodeTransformOp(d []byte) op.TransformOp {
 bo := binary.LittleEndian
 if opconst.OpType(d[0]) != opconst.TypeTransform {
  panic("invalid op")
 }
 return op.TransformOp{}.Offset(f32.Point{
  X: math.Float32frombits(bo.Uint32(d[1:])),
  Y: math.Float32frombits(bo.Uint32(d[5:])),
 })
}
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/*
Package paint provides drawing operations for 2D graphics.

The PaintOp operation draws the current material into a rectangular
area, taking the current clip path and transformation into account.
```

The material is set by either a ColorOp for a constant color, or
ImageOp for an image.
*/
package paint
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// Package quat provides the quaternion numeric type and functions.
//
// For a good treatment of uses and behaviors of quaternions, see
// the interactive videos by Ben Eater and Grant Sanderson here
// https://eater.net/quaternions.
package quat // imports "gonum.org/v1/gonum/num/quat"
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package mat

// TriKind represents the triangularity of the matrix.
type TriKind bool

const (
 // Upper specifies an upper triangular matrix.
 Upper TriKind = true
 // Lower specifies a lower triangular matrix.
 Lower TriKind = false
)
Gonum diff
[![GoDoc](https://godoc.org/gonum.org/v1/gonum/diff?status.svg)](https://godoc.org/gonum.org/v1/gonum/diff)

Package diff is a package for computing derivatives of functions for the Go language.
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package r1

// Interval represents an interval.
type Interval struct {
 Min, Max float64
}
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```
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package cmplx64

// Conj returns the complex conjugate of x.
func Conj(x complex64) complex64 { return complex(real(x), -imag(x)) }
//**
 github.com/fjl/go-ethereum@v0.6.8
 and others
**//

{{Types "GPL-2.0"}}

((
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))??

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MA 02110-1301  USA
||
see <http://www.gnu.org/licenses/>.
))
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```

```
// +build !amd64 noasm appengine safe

package math32

import (
 "math"
)

// Sqrt returns the square root of x.
//
// Special cases are:
// Sqrt(+Inf) = +Inf
// Sqrt(0) = 0
// Sqrt(x < 0) = NaN
// Sqrt(NaN) = NaN
func Sqrt(x float32) float32 {
 // FIXME(kortschak): Direct translation of the math package
 // asm code for 386 fails to build. No test hardware is available
 // for arm, so using conversion instead.
 return float32(math.Sqrt(float64(x)))
}
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// Package r1 provides 1D vectors and intervals and operations on them.
package r1 // import "gonum.org/v1/gonum/spatial/r1"
// SPDX-License-Identifier: Unlicense OR MIT

package headless

import (
 "image"
 "image/color"
 "testing"

 "gioui.org/f32"
 "gioui.org/op"
 "gioui.org/op/paint"
)

func TestHeadless(t *testing.T) {
 sz := image.Point{X: 800, Y: 600}
 w, err := NewWindow(sz.X, sz.Y)
 if err != nil {
  t.Skipf("headless windows not supported: %v", err)
 }
```

```
 col := color.RGBA{A: 0xff, R: 0xcc, G: 0xcc}
 var ops op.Ops
 paint.ColorOp{Color: col}.Add(&ops)
 // Paint only part of the screen to avoid the glClear optimization.
 paint.PaintOp{Rect: f32.Rectangle{Max: f32.Point{
  X: float32(sz.X) - 100,
  Y: float32(sz.Y) - 100,
 }}}.Add(&ops)
 w.Frame(&ops)

 img, err := w.Screenshot()
 if err != nil {
  t.Fatal(err)
 }
 if isz := img.Bounds().Size(); isz != sz {
  t.Errorf("got %v screenshot, expected %v", isz, sz)
 }
 if got := img.RGBAAt(0, 0); got != col {
  t.Errorf("got color %v, expected %v", got, col)
 }
}
//** github.com/gyuho/learn@v0.0.0-20170111014222-d7ea19cb9a88 **//

{{Types "CC-BY-4.0"}}

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style="border-width:0" src="https://i.creativecommons.org/l/by/4.0/88x31.png" /></a><br />This work is licensed
under a <a rel="license" href="http://creativecommons.org/licenses/by/4.0/">Creative Commons Attribution 4.0
International License</a>.
graph{{"1_1_BO{s4TupuTsd_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""
siQ0p2wJVKq9_9vW_0_YXH3_9tuvOtt3AdM6_esq_5_0wvni{}o1h1PyG1YOedae{s4TupuTsd_3_3VO1_1wgYc
8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""siQ0p2wJVKq9_9vW_0_YXH3_9tuvOtt3AdM
6_esq_5_0wvni{W}o1h1PyG1YOedae{s4TupuTsd_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH
7G1_ZAB_8tO9W}""siQ0p2wJVKq9_9vW_0_YXH3_9tuvOtt3AdM6_esq_5_0wvni{W}Gr_Gr_Gr_Gr_Gr_Gr_{s
4TupuTsd_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}"}}
digraph{"""{k[e=e][e=e]}{k[e=m]""[l=""]""""[l=""]""[l=""][e=n]""[l=""][e=m]""[l=""]""""[l=""]""[l=""]}->P->P-
>P->DP->E->F->G->H->I->J->K->L->M->N->O->P->Q->R->S->T->U->V->W->X->Y->Z{k[e=e][e=n]}->m->n-
>m->n->m->n->m->n->m->n->m->n->m->n->m->n->m->n->m->n->m->n->m->n->m->n->m->n->m->n->m->n-
>m->n->m->n->m->n->m->n->m->n->m->n->m->n->m->n->m->n->m->n}
// SPDX-License-Identifier: Unlicense OR MIT

// Package font implements a central font registry.
package font

import (
 "sync"

 "gioui.org/text"
```

```
)

var (
 mu          sync.Mutex
 initialized bool
 shaper      = new(text.Shaper)
)

// Default returns a singleton *text.Shaper that contains
// the registered fonts.
func Default() *text.Shaper {
 mu.Lock()
 defer mu.Unlock()
 initialized = true
 return shaper
}

// Register a face. Register panics if Default has been
// called.
func Register(font text.Font, face text.Face) {
 mu.Lock()
 defer mu.Unlock()
 if initialized {
  panic("Register must be called before Default")
 }
 shaper.Register(font, face)
}
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package testblas

import (
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
)

func DgemmBenchmark(b *testing.B, dgemm Dgemmer, m, n, k int, tA, tB blas.Transpose) {
 a := make([]float64, m*k)
 for i := range a {
  a[i] = rand.Float64()
 }
 bv := make([]float64, k*n)
 for i := range bv {
```

```
 bv[i] = rand.Float64()
 }
 c := make([]float64, m*n)
 for i := range c {
  c[i] = rand.Float64()
 }
 var lda, ldb int
 if tA == blas.Trans {
  lda = m
 } else {
  lda = k
 }
 if tB == blas.Trans {
  ldb = k
 } else {
  ldb = n
 }
 ldc := n
 b.ResetTimer()
 for i := 0; i < b.N; i++ {
  dgemm.Dgemm(tA, tB, m, n, k, 3.0, a, lda, bv, ldb, 1.0, c, ldc)
 }
}
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package quat

import "math"

// IsNaN returns true if any of real(q), imag(q), jmag(q), or kmag(q) is NaN
// and none are an infinity.
func IsNaN(q Number) bool {
 if math.IsInf(q.Real, 0) || math.IsInf(q.Imag, 0) || math.IsInf(q.Jmag, 0) || math.IsInf(q.Kmag, 0) {
  return false
 }
 return math.IsNaN(q.Real) || math.IsNaN(q.Imag) || math.IsNaN(q.Jmag) || math.IsNaN(q.Kmag)
}

// NaN returns a quaternion ``not-a-number'' value.
func NaN() Number {
 nan := math.NaN()
 return Number{Real: nan, Imag: nan, Jmag: nan, Kmag: nan}
```

```
}
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// Package distuv provides univariate random distribution types.
package distuv // import "gonum.org/v1/gonum/stat/distuv"
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package c128

// ScalUnitaryTo is
//  for i, v := range x {
//   dst[i] = alpha * v
//  }
func ScalUnitaryTo(dst []complex128, alpha complex128, x []complex128) {
 for i, v := range x {
  dst[i] = alpha * v
 }
}

// ScalIncTo is
//  var idst, ix uintptr
//  for i := 0; i < int(n); i++ {
//   dst[idst] = alpha * x[ix]
//   ix += incX
//   idst += incDst
//  }
func ScalIncTo(dst []complex128, incDst uintptr, alpha complex128, x []complex128, n, incX uintptr) {
 var idst, ix uintptr
 for i := 0; i < int(n); i++ {
  dst[idst] = alpha * x[ix]
  ix += incX
  idst += incDst
 }
}
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// +build !amd64 noasm appengine safe

package f32

// Ger performs the rank-one operation
//  A += alpha * x * y
```

```
// where A is an mn dense matrix, x and y are vectors, and alpha is a scalar.
func Ger(m, n uintptr, alpha float32, x []float32, incX uintptr, y []float32, incY uintptr, a []float32, lda uintptr) {

 if incX == 1 && incY == 1 {
  x = x[:m]
  y = y[:n]
  for i, xv := range x {
   AxpyUnitary(alpha*xv, y, a[uintptr(i)*lda:uintptr(i)*lda+n])
  }
  return
 }

 var ky, kx uintptr
 if int(incY) < 0 {
  ky = uintptr(-int(n-1) * int(incY))
 }
 if int(incX) < 0 {
  kx = uintptr(-int(m-1) * int(incX))
 }

 ix := kx
 for i := 0; i < int(m); i++ {
  AxpyInc(alpha*x[ix], y, a[uintptr(i)*lda:uintptr(i)*lda+n], uintptr(n), uintptr(incY), 1, uintptr(ky), 0)
  ix += incX
 }
}
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// Package community provides graph community detection functions.
package community // import "gonum.org/v1/gonum/graph/community"
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// Package r3 provides 3D vectors and boxes and operations on them.
package r3 // import "gonum.org/v1/gonum/spatial/r3"
// Code generated by "go generate gonum.org/v1/gonum/unit/constant; DO NOT EDIT.

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package constant

import (
 "fmt"
```

```
 "testing"
)

func TestFaradayFormat(t *testing.T) {
 for _, test := range []struct {
  format string
  want   string
 }{
  {"%v", "96485.33212 A s mol^-1"},
  {"%.1v", "1e+05 A s mol^-1"},
  {"%50.1v", "                          1e+05 A s mol^-1"},
  {"%50v", "                     96485.33212 A s mol^-1"},
  {"%1v", "96485.33212 A s mol^-1"},
  {"%#v", "constant.faradayUnits(96485.33212)"},
  {"%s", "%!s(constant.faradayUnits=96485.33212 A s mol^-1)"},
 } {
  got := fmt.Sprintf(test.format, Faraday)
  if got != test.want {
   t.Errorf("Format %q: got: %q want: %q", test.format, got, test.want)
  }
 }
}
# Gonum floats
[![GoDoc](https://godoc.org/gonum.org/v1/gonum/floats?status.svg)](https://godoc.org/gonum.org/v1/gonum/floats
)

Package floats provides a set of helper routines for dealing with slices of float64.
The functions avoid allocations to allow for use within tight loops without garbage collection overhead.
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// Package kdtree implements a k-d tree.
//
// See https://en.wikipedia.org/wiki/K-d_tree for more details of k-d tree functionality.
package kdtree // import "gonum.org/v1/gonum/spatial/kdtree"
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "fmt"
 "testing"
)
```

```
func TestEnergyFormat(t *testing.T) {
 for _, test := range []struct {
  value  Energy
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 J"},
  {1.23456789, "%.1v", "1 J"},
  {1.23456789, "%20.1v", "                   1 J"},
  {1.23456789, "%20v", "        1.23456789 J"},
  {1.23456789, "%1v", "1.23456789 J"},
  {1.23456789, "%#v", "unit.Energy(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Energy=1.23456789 J)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
// Code generated by "go generate gonum.org/v1/gonum/unit/constant; DO NOT EDIT.

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package constant

import (
 "fmt"
 "testing"
)

func TestGravitationalFormat(t *testing.T) {
 for _, test := range []struct {
  format string
  want   string
 }{
  {"%v", "6.6743e-11 m^3 kg^-1 s^-2"},
  {"%.1v", "7e-11 m^3 kg^-1 s^-2"},
  {"%50.1v", "                          7e-11 m^3 kg^-1 s^-2"},
  {"%50v", "                     6.6743e-11 m^3 kg^-1 s^-2"},
  {"%1v", "6.6743e-11 m^3 kg^-1 s^-2"},
  {"%#v", "constant.gravitationalUnits(6.6743e-11)"},
  {"%s", "%!s(constant.gravitationalUnits=6.6743e-11 m^3 kg^-1 s^-2)"},
 } {
  got := fmt.Sprintf(test.format, Gravitational)
```

```
  if got != test.want {
   t.Errorf("Format %q: got: %q want: %q", test.format, got, test.want)
  }
 }
}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "fmt"
 "testing"
)

func TestMassFormat(t *testing.T) {
 for _, test := range []struct {
  value  Mass
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 kg"},
  {1.23456789, "%.1v", "1 kg"},
  {1.23456789, "%20.1v", "                1 kg"},
  {1.23456789, "%20v", "       1.23456789 kg"},
  {1.23456789, "%1v", "1.23456789 kg"},
  {1.23456789, "%#v", "unit.Mass(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Mass=1.23456789 kg)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
```

Please take a look.

<!--
Checklist:

- API changes have been discussed
- code is goformated correctly (goimports)
- packages with generated code have had code generation run
- tests pass locally
- linked to relevant issues

```
Please make sure your commit message summary line and pull request
title match the Go convention; a one-line summary of the change,
prefixed by the primary affected package that should complete the
sentence, "This change modifies Gonum to _____."
-->
// Code generated by "go generate gonum.org/v1/gonum/unit/constant; DO NOT EDIT.

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package constant

import "gonum.org/v1/gonum/unit"

// AtomicMass is the atomic mass constant (m), one twelfth of the mass of an unbound atom of carbon-12 at rest and
in its ground state.
// The dimension of AtomicMass is kg. The standard uncertainty of the constant is 5e-37 kg.
const AtomicMass = unit.Mass(1.6605390666e-27)
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// Package multi provides a suite of multigraph implementations satisfying
// the gonum/graph interfaces.
//
// All types in multi return the graph.Empty value for empty iterators.
package multi // import "gonum.org/v1/gonum/graph/multi"
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package r2

// Vec is a 2D vector.
type Vec struct {
 X, Y float64
}

// Add returns the vector sum of p and q.
func (p Vec) Add(q Vec) Vec {
 p.X += q.X
 p.Y += q.Y
 return p
}

// Sub returns the vector sum of p and -q.
```

```
func (p Vec) Sub(q Vec) Vec {
 p.X -= q.X
 p.Y -= q.Y
 return p
}

// Scale returns the vector p scaled by f.
func (p Vec) Scale(f float64) Vec {
 p.X *= f
 p.Y *= f
 return p
}

// Box is a 2D bounding box.
type Box struct {
 Min, Max Vec
}
// SPDX-License-Identifier: Unlicense OR MIT

/*
Package bluetooth implements permissions to access Bluetooth and Bluetooth
Low Energy hardware, including the ability to discover and pair devices.

Android

The following entries will be added to AndroidManifest.xml:

   <uses-permission android:name="android.permission.BLUETOOTH"/>
   <uses-permission android:name="android.permission.BLUETOOTH_ADMIN"/>
   <uses-permission android:name="android.permission.ACCESS_FINE_LOCATION"/>
   <uses-feature android:name="android.hardware.bluetooth" android:required="false"/>
   <uses-feature android:name="android.hardware.bluetooth_le" android:required="false"/>

Note that ACCESS_FINE_LOCATION is required on Android before the Bluetooth
device may be used.
See https://developer.android.com/guide/topics/connectivity/bluetooth.

ACCESS_FINE_LOCATION is a "dangerous" permission. See documentation for
package gioui.org/app/permission for more information.
*/
package bluetooth
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// Package lp implements routines to solve linear programming problems.
package lp // import "gonum.org/v1/gonum/optimize/convex/lp"
```

```
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// Package integrate provides functions to compute an integral given a
// specific list of evaluations.
package integrate // import "gonum.org/v1/gonum/integrate"
// Code generated by "go generate gonum.org/v1/gonum/unit/constant; DO NOT EDIT.

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package constant

import "gonum.org/v1/gonum/unit"

// ElementaryCharge, is the elementary charge constant (e), the magnitude of electric charge carried by a single
proton or electron.
// The dimensions of ElementaryCharge are A s. The constant is exact.
const ElementaryCharge = unit.Charge(1.602176634e-19)
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// Package lapack provides interfaces for the LAPACK linear algebra standard.
package lapack // import "gonum.org/v1/gonum/lapack"
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// Package c128 provides complex128 vector primitives.
package c128 // import "gonum.org/v1/gonum/internal/asm/c128"
// Code generated by "go generate gonum.org/v1/gonum/unit/constant; DO NOT EDIT.

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package constant

import "gonum.org/v1/gonum/unit"

// StandardGravity is the standard gravity constant (g), the nominal gravitational acceleration of an object in a
vacuum near the surface of the Earth
// The dimensions of StandardGravity are m s^-2. The constant is exact.
const StandardGravity = unit.Acceleration(9.80665)
```

```
package widget

import (
 "gioui.org/gesture"
 "gioui.org/layout"
)

type CheckBox struct {
 click   gesture.Click
 checked bool
}

func (c *CheckBox) SetChecked(value bool) {
 c.checked = value
}

func (c *CheckBox) Checked(gtx *layout.Context) bool {
 for _, e := range c.click.Events(gtx) {
  switch e.Type {
  case gesture.TypeClick:
   c.checked = !c.checked
  }
 }
 return c.checked
}

func (c *CheckBox) Layout(gtx *layout.Context) {
 c.click.Add(gtx.Ops)
}
//**
source: https://github.com/mindworks-software/hid/blob/master/LICENSE.md
**//
{{Types "BSD-3-Clause LGPL-2.1"}}
```

The components of `hid` are licensed as such:

* `hidapi` is released under the [3-clause BSD](https://github.com/signal11/hidapi/blob/master/LICENSE-bsd.txt) license.
* `libusb` is released under the [GNU LGPL 2.1](https://github.com/libusb/libusb/blob/master/COPYING)license.
* `go.hid` is released under the [2-clause BSD](https://github.com/GeertJohan/go.hid/blob/master/LICENSE) license.
* `gowchar` is released under the [3-clause BSD](https://github.com/orofarne/gowchar/blob/master/LICENSE) license.

Given the above, `hid` is licensed under GNU LGPL 2.1 or later on Linux and 3-clause BSD on other platforms.
graph{{{{S{{{S}}S}}}{{{{S}}S}}{S{{{S}}S}}{}{S{{S}}S}}{S{{}S}}{S{{{}{{{{S}}S}}{S{{{S}}S}}{}{S{{S}}S}}{S{{}S}}{S{{{}}{S{{{}}S}}S{{{S}}S}}}{{{}}{}{S{{S}}S}}{S{S}S{{S}}S}}{S{{{S}}S}{}{S}}{S

{{{}}S}}S{{{S}}S}}}{{{}}{}{S{{S}}S}}{S{{}S{{S}}S}}{S{{{S}}S}{}{S{{S}}S}}{S{{}S}}{S{{{}}{S}}}{{
S{{{}}}}}{}}}
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// +build !noasm,!appengine,!safe

package math32

// Sqrt returns the square root of x.
//
// Special cases are:
// Sqrt(+Inf) = +Inf
// Sqrt(0) = 0
// Sqrt(x < 0) = NaN
// Sqrt(NaN) = NaN
func Sqrt(x float32) float32
Gonum internal
[![GoDoc](https://godoc.org/gonum.org/v1/gonum/internal?status.svg)](https://godoc.org/gonum.org/v1/gonum/inte
rnal)

This is the set of internal packages for the Gonum project.
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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// license that can be found in the LICENSE file.

package unit

import (
 "fmt"
 "testing"
)

func TestPressureFormat(t *testing.T) {
 for _, test := range []struct {
  value Pressure
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 Pa"},
  {1.23456789, "%.1v", "1 Pa"},

```
  {1.23456789, "%20.1v", "                1 Pa"},
  {1.23456789, "%20v", "       1.23456789 Pa"},
  {1.23456789, "%1v", "1.23456789 Pa"},
  {1.23456789, "%#v", "unit.Pressure(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Pressure=1.23456789 Pa)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
// Code generated by "go generate gonum.org/v1/gonum/unit/constant; DO NOT EDIT.

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package constant

import (
 "fmt"
 "testing"
)

func TestAvogadroFormat(t *testing.T) {
 for _, test := range []struct {
  format string
  want   string
 }{
  {"%v", "6.02214076e+23 mol^-1"},
  {"%.1v", "6e+23 mol^-1"},
  {"%50.1v", "                                6e+23 mol^-1"},
  {"%50v", "                         6.02214076e+23 mol^-1"},
  {"%1v", "6.02214076e+23 mol^-1"},
  {"%#v", "constant.avogadroUnits(6.02214076e+23)"},
  {"%s", "%!s(constant.avogadroUnits=6.02214076e+23 mol^-1)"},
 } {
  got := fmt.Sprintf(test.format, Avogadro)
  if got != test.want {
   t.Errorf("Format %q: got: %q want: %q", test.format, got, test.want)
  }
 }
}
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```

```
// Package network provides network analysis functions.
package network // import "gonum.org/v1/gonum/graph/network"
// SPDX-License-Identifier: Unlicense OR MIT

// +build !darwin

package key

// ModShortcut is the platform's shortcut modifier, usually the Ctrl
// key. On Apple platforms it is the Cmd key.
const ModShortcut = ModCtrl
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// Package graphql implements JSON marshaling and unmarshaling of graph as
// used by GraphQL
package graphql // import "gonum.org/v1/gonum/graph/encoding/graphql"
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// Package vptree implements a vantage point tree. Vantage point
// trees provide an efficient search for nearest neighbors in a
// metric space.
//
// See http://pnylab.com/papers/vptree/vptree.pdf for details of vp-trees.
package vptree // import "gonum.org/v1/gonum/spatial/vptree"
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// +build tomita

package topo

const tomitaTanakaTakahashi = true
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package distmv

var (
 badQuantile      = "distmv: quantile not between 0 and 1"
 badReceiver      = "distmv: input slice is not nil or the correct length"
 badSizeMismatch  = "distmv: size mismatch"
 badZeroDimension = "distmv: zero dimensional input"
```

```
 nonPosDimension  = "distmv: non-positive dimension input"
)

const logTwoPi = 1.8378770664093454835606594728112352797227949472755668

// useAs gets a slice of size n. If len(x) == n, x is returned, if len(x) == 0
// then a slice is returned of length n.
func reuseAs(x []float64, n int) []float64 {
 if len(x) == n {
  return x
 }
 if len(x) == 0 {
  if cap(x) >= n {
   return x[:n]
  }
  return make([]float64, n)
 }
 panic(badReceiver)
}
//**
source: https://github.com/golang/freetype/blob/master/LICENSE
**//
{{Types "Freetype"}}

Use of the Freetype-Go software is subject to your choice of exactly one of
the following two licenses:
 * The FreeType License, which is similar to the original BSD license with
   an advertising clause, or
 * The GNU General Public License (GPL), version 2 or later.

The text of these licenses are available in the licenses/ftl.txt and the
licenses/gpl.txt files respectively. They are also available at
http://freetype.sourceforge.net/license.html

The Luxi fonts in the testdata directory are licensed separately. See the
testdata/COPYING file for details.
// +build !js

package gl

type (
 Buffer       struct{ V uint }
 Framebuffer  struct{ V uint }
 Program      struct{ V uint }
 Renderbuffer struct{ V uint }
 Shader       struct{ V uint }
 Texture      struct{ V uint }
 Query        struct{ V uint }
```

```
 Uniform      struct{ V int }
 Object       struct{ V uint }
)

func (u Uniform) Valid() bool {
 return u.V != -1
}

func (p Program) Valid() bool {
 return p.V != 0
}

func (s Shader) Valid() bool {
 return s.V != 0
}

func (t Texture) Valid() bool {
 return t.V != 0
}

func (t Texture) Equal(t2 Texture) bool {
 return t == t2
}
```

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```
// Package lexer provides generated internal lexer functions for DOT parsing.
package lexer // import "gonum.org/v1/gonum/graph/formats/dot/internal/lexer"
```

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```
// Package layout defines functions for performing graph layout.
package layout // import "gonum.org/v1/gonum/graph/layout"
digraph {{k2450}{k2450}->9S24->7S24->5->0->2S35->6S35->3S30->1S30->3->2->T1;5->T1;5->6->T24;2->3-
>6->7->T1;2->8->1->4->T1;0->3->2->T1;1->2->T30;3->4->4->4->4->5->9->9->4->5->9->1->8->0->9->9->8->0-
>9->3->9->5->9->4->9->5->1->0->8->6->T35;5->3->2->5->9->7->T1;2->3->T35;9->T30;7->T8;3->T24;3->T1;}
```

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```
// Package dynamic provides incremental heuristic graph path finding functions.
package dynamic // import "gonum.org/v1/gonum/graph/path/dynamic"
```

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```
// Package mds provides multidimensional scaling functions.
package mds // import "gonum.org/v1/gonum/stat/mds"
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "fmt"
 "testing"
)

func TestEquivalentRadioactiveDoseFormat(t *testing.T) {
 for _, test := range []struct {
  value  EquivalentRadioactiveDose
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 Sy"},
  {1.23456789, "%.1v", "1 Sy"},
  {1.23456789, "%20.1v", "                1 Sy"},
  {1.23456789, "%20v", "       1.23456789 Sy"},
  {1.23456789, "%1v", "1.23456789 Sy"},
  {1.23456789, "%#v", "unit.EquivalentRadioactiveDose(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.EquivalentRadioactiveDose=1.23456789 Sy)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
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package network

const (
 A = iota
 B
 C
 D
 E
 F
```

```
 G
 H
 I
 J
 K
 L
 M
 N
 O
 P
 Q
 R
 S
 T
 U
 V
 W
 X
 Y
 Z
)

// set is an integer set.
type set map[int64]struct{}

func linksTo(i ...int64) set {
 if len(i) == 0 {
  return nil
 }
 s := make(set)
 for _, v := range i {
  s[v] = struct{}{}
 }
 return s
}
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// Package fd provides functions to approximate derivatives using finite differences.
package fd // import "gonum.org/v1/gonum/diff/fd"
$(CUR_SRCS) +=  d1mach.f zabs.f   zasyi.f  zbesk.f  zbknu.f  zexp.f   zmlt.f   zshch.f  zuni1.f  zunk2.f \
 dgamln.f zacai.f  zbesh.f  zbesy.f  zbuni.f  zkscl.f  zrati.f  zsqrt.f  zuni2.f  zuoik.f \
 i1mach.f zacon.f  zbesi.f  zbinu.f  zbunk.f  zlog.f   zs1s2.f  zuchk.f  zunik.f  zwrsk.f \
 xerror.f zairy.f  zbesj.f  zbiry.f  zdiv.f   zmlri.f  zseri.f  zunhj.f  zunk1.f
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```

```
// Package functions provides objective functions for testing optimization
// algorithms.
//
// We encourage outside contributions of additional test functions that exhibit
// properties not already covered in the testing suite or that have
// significance due to prior use as benchmark cases.
package functions // import "gonum.org/v1/gonum/optimize/functions"

const (
 badInputDim = "functions: wrong input dimension"
)
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// +build !amd64 noasm appengine safe

package f64

// DotUnitary is
//  for i, v := range x {
//   sum += y[i] * v
//  }
//  return sum
func DotUnitary(x, y []float64) (sum float64) {
 for i, v := range x {
  sum += y[i] * v
 }
 return sum
}

// DotInc is
//  for i := 0; i < int(n); i++ {
//   sum += y[iy] * x[ix]
//   ix += incX
//   iy += incY
//  }
//  return sum
func DotInc(x, y []float64, n, incX, incY, ix, iy uintptr) (sum float64) {
 for i := 0; i < int(n); i++ {
  sum += y[iy] * x[ix]
  ix += incX
  iy += incY
 }
 return sum
}
```

```
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package lp_test

import (
 "fmt"
 "log"

 "gonum.org/v1/gonum/mat"
 "gonum.org/v1/gonum/optimize/convex/lp"
)

func ExampleSimplex() {
 c := []float64{-1, -2, 0, 0}
 A := mat.NewDense(2, 4, []float64{-1, 2, 1, 0, 3, 1, 0, 1})
 b := []float64{4, 9}

 opt, x, err := lp.Simplex(c, A, b, 0, nil)
 if err != nil {
  log.Fatal(err)
 }
 fmt.Printf("opt: %v\n", opt)
 fmt.Printf("x: %v\n", x)
 // Output:
 // opt: -8
 // x: [2 3 0 0]
}
// SPDX-License-Identifier: Unlicense OR MIT

package text

import (
 "strconv"
 "testing"

 "gioui.org/op"
)

func TestLayoutLRU(t *testing.T) {
 c := new(layoutCache)
 put := func(i int) {
  c.Put(layoutKey{str: strconv.Itoa(i)}, nil)
 }
 get := func(i int) bool {
  _, ok := c.Get(layoutKey{str: strconv.Itoa(i)})
  return ok
```

```
 }
 testLRU(t, put, get)
}

func TestPathLRU(t *testing.T) {
 c := new(pathCache)
 put := func(i int) {
  c.Put(pathKey{str: strconv.Itoa(i)}, op.CallOp{})
 }
 get := func(i int) bool {
  _, ok := c.Get(pathKey{str: strconv.Itoa(i)})
  return ok
 }
 testLRU(t, put, get)
}

func testLRU(t *testing.T, put func(i int), get func(i int) bool) {
 for i := 0; i < maxSize; i++ {
  put(i)
 }
 for i := 0; i < maxSize; i++ {
  if !get(i) {
   t.Fatalf("key %d was evicted", i)
  }
 }
 put(maxSize)
 for i := 1; i < maxSize+1; i++ {
  if !get(i) {
   t.Fatalf("key %d was evicted", i)
  }
 }
 if i := 0; get(i) {
  t.Fatalf("key %d was not evicted", i)
 }
}
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// Package path provides graph path finding functions.
package path // import "gonum.org/v1/gonum/graph/path"
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// Package dual provides the dual numeric type and functions. Dual numbers
// are an extension of the real numbers in the form a+b where ^2=0, but 0.
//
```

```
// See https://en.wikipedia.org/wiki/Dual_number for details of their properties
// and uses.
package dual // imports "gonum.org/v1/gonum/num/dual"

// TODO(kortschak): Handle special cases properly.
//  - Pow
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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// license that can be found in the LICENSE file.

package unit

import (
 "fmt"
 "testing"
)

func TestAbsorbedRadioactiveDoseFormat(t *testing.T) {
 for _, test := range []struct {
  value  AbsorbedRadioactiveDose
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 Gy"},
  {1.23456789, "%.1v", "1 Gy"},
  {1.23456789, "%20.1v", "               1 Gy"},
  {1.23456789, "%20v", "       1.23456789 Gy"},
  {1.23456789, "%1v", "1.23456789 Gy"},
  {1.23456789, "%#v", "unit.AbsorbedRadioactiveDose(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.AbsorbedRadioactiveDose=1.23456789 Gy)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
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// Package testlapack implements a set of testing routines for Lapack functions.
package testlapack // import "gonum.org/v1/gonum/lapack/testlapack"
digraph{gs->gt[r=n]n->s[r=e]n->gt[r=n]n->s[r=e]n->s->s[r=n]n->c[r=n]gt[r=n]n->r[r=e]n->s[r=n]a:gs-
>c[r=e]a:gs[r=n]s->t[r=n]s->t[r=n]s->c[r=n]t->e[r=e]t->c[r=n]t->c[r=n]t->r[r=e]t->e[r=n]c->c[r=n]c->r[r=e]r-
>t[r=e]r->f[r=e]r->r[r=e]e->s[r=d]e->f[r=d]e->d[r=n]s->e[r=n]s->n[r=n]s->t[r=n]s->e[r=e]}
```

```
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// Package fftpack implements Discrete Fourier Transform functions
// ported from the Fortran implementation of FFTPACK.
package fftpack // import "gonum.org/v1/gonum/fourier/internal/fftpack"
// SPDX-License-Identifier: Unlicense OR MIT

// +build android

package app

import "C"

import (
 "sync"

 "gioui.org/app/internal/window"
)

var (
 dataDirOnce sync.Once
 dataPath    string
)

func dataDir() (string, error) {
 dataDirOnce.Do(func() {
  dataPath = window.GetDataDir()
 })
 return dataPath, nil
}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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// license that can be found in the LICENSE file.

package unit

import (
 "fmt"
 "testing"
)

func TestTimeFormat(t *testing.T) {
 for _, test := range []struct {
  value  Time
```

```
 format string
 want   string
}{
 {1.23456789, "%v", "1.23456789 s"},
 {1.23456789, "%.1v", "1 s"},
 {1.23456789, "%20.1v", "                 1 s"},
 {1.23456789, "%20v", "        1.23456789 s"},
 {1.23456789, "%1v", "1.23456789 s"},
 {1.23456789, "%#v", "unit.Time(1.23456789)"},
 {1.23456789, "%s", "%!s(unit.Time=1.23456789 s)"},
} {
 got := fmt.Sprintf(test.format, test.value)
 if got != test.want {
  t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
 }
}
}
graph{{{{{SUBGRA0}}{{}{}{{}}}}}{{{}{SUBGRA0{{SUBGRA5{SUBGRA0}}}}}}{{{SUBGRA5<>}""""""""
}}{{{SUBGRA5{}}{{{SUBGRA5{SUBGRA0}}}}}}{{{SUBGRA5{SUBGRA0}}{SUBGRA0{{{SUBGRA0}}}
{{{}}}}}}{{{}{SUBGRA0{{SUBGRA5{}}}}}{{SUBGRA5{SUBGRA0}}{SUBGRA0{{{SUBGRA0}SUBGRA
5{}}}}}{{SUBGRA5{SUBGRA0}}{SUBGRA0{{SUBGRA5{SUBGRA0}}}}}{{SUBGRA5{}}{SUBGRA0{{}}
}}}}
      SUBROUTINE ZUCHK(YR, YI, NZ, ASCLE, TOL)
C***BEGIN PROLOGUE  ZUCHK
C***REFER TO ZSERI,ZUOIK,ZUNK1,ZUNK2,ZUNI1,ZUNI2,ZKSCL
C
C      Y ENTERS AS A SCALED QUANTITY WHOSE MAGNITUDE IS GREATER THAN
C      EXP(-ALIM)=ASCLE=1.0E+3*D1MACH(1)/TOL. THE TEST IS MADE TO SEE
C      IF THE MAGNITUDE OF THE REAL OR IMAGINARY PART WOULD UNDERFLOW
C      WHEN Y IS SCALED (BY TOL) TO ITS PROPER VALUE. Y IS ACCEPTED
C      IF THE UNDERFLOW IS AT LEAST ONE PRECISION BELOW THE MAGNITUDE
C      OF THE LARGEST COMPONENT; OTHERWISE THE PHASE ANGLE DOES NOT HAVE
C      ABSOLUTE ACCURACY AND AN UNDERFLOW IS ASSUMED.
C
C***ROUTINES CALLED  (NONE)
C***END PROLOGUE  ZUCHK
C
C     COMPLEX Y
      DOUBLE PRECISION ASCLE, SS, ST, TOL, WR, WI, YR, YI
      INTEGER NZ
      NZ = 0
      WR = DABS(YR)
      WI = DABS(YI)
      ST = DMIN1(WR,WI)
      IF (ST.GT.ASCLE) RETURN
      SS = DMAX1(WR,WI)
      ST = ST/TOL
      IF (SS.LT.ST) NZ = 1
```

```
    RETURN
    END
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// license that can be found in the LICENSE file.

package distmv

import (
 "math"
 "testing"

 "gonum.org/v1/gonum/spatial/r1"
)

func TestUniformEntropy(t *testing.T) {
 for _, test := range []struct {
  Uniform *Uniform
  Entropy float64
 }{
  {
   NewUniform([]r1.Interval{{0, 1}, {0, 1}}, nil),
   0,
  },
  {
   NewUniform([]r1.Interval{{-1, 3}, {2, 8}, {-5, -3}}, nil),
   math.Log(48),
  },
 } {
  ent := test.Uniform.Entropy()
  if math.Abs(ent-test.Entropy) > 1e-14 {
   t.Errorf("Entropy mismatch. Got %v, want %v", ent, test.Entropy)
  }
 }
}
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// license that can be found in the LICENSE file.

// Package astx implements utility functions for generating abstract syntax
// trees of Graphviz DOT graphs.
package astx // import "gonum.org/v1/gonum/graph/formats/dot/internal/astx"
//** github.com/todbot/blink1@v0.0.0-20201106195604-e657e2245ef9 **//

{{Types "CC-BY-SA-4.0"}}
```

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==========

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work. If not, see <http://creativecommons.org/licenses/by-sa/4.0/>.

```
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// license that can be found in the LICENSE file.

// Package amos implements functions originally in the Netlib code by Donald Amos.
package amos // import "gonum.org/v1/gonum/mathext/internal/amos"
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// license that can be found in the LICENSE file.

package unit

const (
 Yotta = 1e24
 Zetta = 1e21
 Exa   = 1e18
 Peta  = 1e15
 Tera  = 1e12
 Giga  = 1e9
 Mega  = 1e6
 Kilo  = 1e3
 Hecto = 1e2
 Deca  = 1e1

 Deci  = 1e-1
 Centi = 1e-2
 Milli = 1e-3
 Micro = 1e-6
 Nano  = 1e-9
 Pico  = 1e-12
 Femto = 1e-15
 Atto  = 1e-18
 Zepto = 1e-21
 Yocto = 1e-24
)
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// license that can be found in the LICENSE file.
```

```
package distuv_test

import (
 "fmt"

 "gonum.org/v1/gonum/stat"
 "gonum.org/v1/gonum/stat/distuv"
)

func ExampleNormal() {
 // Create a normal distribution
 dist := distuv.Normal{
  Mu:    2,
  Sigma: 5,
 }

 data := make([]float64, 1e5)

 // Draw some random values from the standard normal distribution
 for i := range data {
  data[i] = dist.Rand()
 }

 mean, std := stat.MeanStdDev(data, nil)
 meanErr := stat.StdErr(std, float64(len(data)))

 fmt.Printf("mean= %1.1f  %0.1v\n", mean, meanErr)

 // Output:
 // mean= 2.0  0.02
}
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// +build noasm appengine safe

package layout

// Change the testdata path for calculations done without assembly kernels.
func init() {
 tag = "_noasm"
}
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// license that can be found in the LICENSE file.
```

```
package gonum

import "math"

// Dlapy2 is the LAPACK version of math.Hypot.
//
// Dlapy2 is an internal routine. It is exported for testing purposes.
func (Implementation) Dlapy2(x, y float64) float64 {
 return math.Hypot(x, y)
}
// SPDX-License-Identifier: Unlicense OR MIT

package fling

import "testing"

func TestDecomposeQR(t *testing.T) {
 A := &matrix{
  rows: 3, cols: 3,
  data: []float32{
   12, 6, -4,
   -51, 167, 24,
   4, -68, -41,
  },
 }
 Q, Rt, ok := decomposeQR(A)
 if !ok {
  t.Fatal("decomposeQR failed")
 }
 R := Rt.transpose()
 QR := Q.mul(R)
 if !A.approxEqual(QR) {
  t.Log("A\n", A)
  t.Log("Q\n", Q)
  t.Log("R\n", R)
  t.Log("QR\n", QR)
  t.Fatal("Q*R not approximately equal to A")
 }
}

func TestFit(t *testing.T) {
 X := []float32{-1, 0, 1}
 Y := []float32{2, 0, 2}

 got, ok := polyFit(X, Y)
 if !ok {
  t.Fatal("polyFit failed")
 }
```

```
 want := coefficients{0, 0, 2}
 if !got.approxEqual(want) {
  t.Fatalf("polyFit: got %v want %v", got, want)
 }
}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "fmt"
 "testing"
)

func TestMagneticFluxFormat(t *testing.T) {
 for _, test := range []struct {
  value  MagneticFlux
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 Wb"},
  {1.23456789, "%.1v", "1 Wb"},
  {1.23456789, "%20.1v", "                1 Wb"},
  {1.23456789, "%20v", "       1.23456789 Wb"},
  {1.23456789, "%1v", "1.23456789 Wb"},
  {1.23456789, "%#v", "unit.MagneticFlux(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.MagneticFlux=1.23456789 Wb)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
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package stat_test

import (
 "fmt"

 "golang.org/x/exp/rand"
```

```
 "gonum.org/v1/gonum/stat"
)

func ExampleLinearRegression() {
 var (
  xs      = make([]float64, 100)
  ys      = make([]float64, 100)
  weights []float64
 )

 line := func(x float64) float64 {
  return 1 + 3*x
 }

 for i := range xs {
  xs[i] = float64(i)
  ys[i] = line(xs[i]) + 0.1*rand.NormFloat64()
 }

 // Do not force the regression line to pass through the origin.
 origin := false

 alpha, beta := stat.LinearRegression(xs, ys, weights, origin)
 r2 := stat.RSquared(xs, ys, weights, alpha, beta)

 fmt.Printf("Estimated slope is:  %v\n", alpha)
 fmt.Printf("Estimated offset is: %v\n", beta)
 fmt.Printf("R^2: %v\n", r2)

 // Output:
 // Estimated slope is:  0.988572424633503
 // Estimated offset is: 3.0001541344029676
 // R^2: 0.9999991095061128
}
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package gonum

// Dcombssq adds two scaled sum-of-squares quantities, V := V1 + V2,
//  V_scale^2 * V_ssq := V1_scale^2 * V1_ssq + V2_scale^2 * V2_ssq
// and returns the result V.
//
// Dcombssq is an internal routine. It is exported for testing purposes.
func (Implementation) Dcombssq(scale1, ssq1, scale2, ssq2 float64) (scale, ssq float64) {
 if scale1 >= scale2 {
```

```
  if scale1 != 0 {
   return scale1, ssq1 + (scale2/scale1)*(scale2/scale1)*ssq2
  }
  // If the input is non-negative and we are here, then scale2 must inevitably be 0, too.
  return 0, 0
 }
 return scale2, ssq2 + (scale1/scale2)*(scale1/scale2)*ssq1
}
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// Package math32 provides float32 versions of standard library math package
// routines used by gonum/blas/native.
package math32 // import "gonum.org/v1/gonum/internal/math32"
# This source code was written by the Go contributors.
# The master list of contributors is in the main Go distribution,
# visible at http://tip.golang.org/CONTRIBUTORS.
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package gonum
graph{[f=4][f=8][f=2][f=2][f=3][f=7][f=2][f=4][f=6][f=6][f=4][f=4][f=9][f=4][f=4][f=4][f=4][f=4][f=1][f=4][f=6][f
=6][f=4][f=1][f=6][f=1][f=2][f=7][f=8][f=2][f=2][f=3][f=7][f=2][f=4][f=6][f=6][f=4][f=4][f=9][f=4][f=4][f=4][f=4]
[f=4][f=1][f=4][f=6][f=6][f=4][f=1][f=6][f=1][f=2][f=7][f=1][f=1][f=1][f=1][f=8][f=1][f=1][f=1][f=1][f=1][f=8][f=
1][f=3][f=5][f=1][f=1][f=1][f=9]}
//** github.com/losinggeneration/geojson@v0.0.0-20160627001320-09bc167a825e **//

{{Types "CC-BY-SA-4.0"}}

Unit test JSON examples:
Most unit test examples are taken from the GeoJSON spec Rev 1.0 at
http://geojson.org/geojson-spec.html
Authors  Howard Butler (Hobu Inc.), Martin Daly (Cadcorp), Allan Doyle (MIT), Sean Gillies (UNC-Chapel Hill),
Tim Schaub (OpenGeo), Christopher Schmidt (MetaCarta)
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Unit test JSON examples are thus licensed under a
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// Package f32 provides float32 vector primitives.
package f32 // import "gonum.org/v1/gonum/internal/asm/f32"
```

```
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package distuv

// Parameter represents a parameter of a probability distribution
type Parameter struct {
 Name  string
 Value float64
}

var (
 badPercentile = "distuv: percentile out of bounds"
 badLength     = "distuv: slice length mismatch"
 badSuffStat   = "distuv: wrong suffStat length"
 badNoSamples  = "distuv: must have at least one sample"
)

const (
 expNegOneHalf   = 0.6065306597126334236037995349911804534419 // https://oeis.org/A092605
 eulerMascheroni = 0.5772156649015328606065120900824024310421 // https://oeis.org/A001620
 apery           = 1.2020569031595942853997381615114499907649 // https://oeis.org/A002117
)
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// Package gen provides random graph generation functions.
package gen // import "gonum.org/v1/gonum/graph/graphs/gen"
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "fmt"
 "testing"
)

func TestLengthFormat(t *testing.T) {
 for _, test := range []struct {
  value  Length
  format string
  want   string
```

```
 }{
  {1.23456789, "%v", "1.23456789 m"},
  {1.23456789, "%.1v", "1 m"},
  {1.23456789, "%20.1v", "                 1 m"},
  {1.23456789, "%20v", "        1.23456789 m"},
  {1.23456789, "%1v", "1.23456789 m"},
  {1.23456789, "%#v", "unit.Length(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Length=1.23456789 m)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
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// Package distmv provides multivariate random distribution types.
package distmv // import "gonum.org/v1/gonum/stat/distmv"
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "fmt"
 "testing"
)

func TestPowerFormat(t *testing.T) {
 for _, test := range []struct {
  value  Power
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 W"},
  {1.23456789, "%.1v", "1 W"},
  {1.23456789, "%20.1v", "                 1 W"},
  {1.23456789, "%20v", "        1.23456789 W"},
  {1.23456789, "%1v", "1.23456789 W"},
  {1.23456789, "%#v", "unit.Power(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Power=1.23456789 W)"},
 } {
```

```
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
```

Contributing to Go

Go is an open source project.

It is the work of hundreds of contributors. We appreciate your help!

Filing issues

When [filing an issue](https://golang.org/issue/new), make sure to answer these five questions:

1. What version of Go are you using (`go version`)?
2. What operating system and processor architecture are you using?
3. What did you do?
4. What did you expect to see?
5. What did you see instead?

General questions should go to the [golang-nuts mailing list](https://groups.google.com/group/golang-nuts) instead of the issue tracker.
The gophers there will answer or ask you to file an issue if you've tripped over a bug.

Contributing code

Please read the [Contribution Guidelines](https://golang.org/doc/contribute.html)
before sending patches.

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```
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// Package ordered provides common sort ordering types.
package ordered // import "gonum.org/v1/gonum/graph/internal/ordered"
// SPDX-License-Identifier: Unlicense OR MIT

// +build linux freebsd windows

package headless

import (
 "gioui.org/app/internal/egl"
)
```

```
func newContext() (context, error) {
 return egl.NewContext(egl.EGL_DEFAULT_DISPLAY)
}
// Code generated by "go generate gonum.org/v1/gonum/unit/constant; DO NOT EDIT.

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package constant

import (
 "fmt"
 "testing"
)

func TestPlanckFormat(t *testing.T) {
 for _, test := range []struct {
  format string
  want   string
 }{
  {"%v", "6.62607015e-34 kg m^2 s^-1"},
  {"%.1v", "7e-34 kg m^2 s^-1"},
  {"%50.1v", "                                7e-34 kg m^2 s^-1"},
  {"%50v", "                       6.62607015e-34 kg m^2 s^-1"},
  {"%1v", "6.62607015e-34 kg m^2 s^-1"},
  {"%#v", "constant.planckUnits(6.62607015e-34)"},
  {"%s", "%!s(constant.planckUnits=6.62607015e-34 kg m^2 s^-1)"},
 } {
  got := fmt.Sprintf(test.format, Planck)
  if got != test.want {
   t.Errorf("Format %q: got: %q want: %q", test.format, got, test.want)
  }
 }
}
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// +build !bounds

package barneshut

const checkBounds = false
graph{{{{S{{{S}}S}}}{{{{S}}S}}{S{{{S}}S}}{}{S{{S}}S}}{S{{}S}}{S{{{}{{{{S}}S}}{S{{{S}}S}}{}{S
{{S}}S}}{S{{}S}}{S{{{}}{S{{{}}S}}S{{{S}}S}}}{{{}}{}{S{{S}}S}}{S{e}S{{S}}S}}{S{{{S}}S}{}{S}}{S{
{{}}S}}S{{{S}}S}}}{{{}}{}{S{{S}}S}}{S{{}S{{S}}S}}{S{{{S}}S}{}{S{{S}}S}}{S{{}S}}{S{{{}}{S}}}{{S
```

{{{}}}}{}}}
//** github.com/ipld/go-ipld-adl-hamt@v0.0.0-20201125163904-25abfe77c0bc **//

{{Types "Apache-2.0 MIT"}}

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governing permissions and limitations under that License.

<!--- SPDX-License-Identifier: Apache-2.0 OR MIT -->
`SPDX-License-Identifier: Apache-2.0 OR MIT`
build: off

clone_folder: c:\gopath\src\gonum.org\v1\gonum

cache:
 - '%LocalAppData%\go-build'

branches:
 only:
   - master

environment:
 # Do not move these lines; they are referred to by README.md.
 # Versions of go that are explicitly supported by gonum.
 matrix:
   - GOROOT: 'c:\go112'
   #- GOROOT: 'c:\go113'
 GOPATH: c:\gopath
 GOTOOLDIR: '%GOROOT%\pkg\tool\windows_amd64'
 PATH: '%GOPATH%\bin;%GOROOT%\bin;%PATH%'

build_script:
 - "%GOROOT%\\bin\\go version"
 - "%GOROOT%\\bin\\go get -v -t ./..."

test_script:
 - "%GOROOT%\\bin\\go test ./..."
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

```
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package unit

import (
 "fmt"
 "testing"
)

func TestChargeFormat(t *testing.T) {
 for _, test := range []struct {
  value  Charge
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 C"},
  {1.23456789, "%.1v", "1 C"},
  {1.23456789, "%20.1v", "                 1 C"},
  {1.23456789, "%20v", "        1.23456789 C"},
  {1.23456789, "%1v", "1.23456789 C"},
  {1.23456789, "%#v", "unit.Charge(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Charge=1.23456789 C)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "fmt"
 "testing"
)

func TestForceFormat(t *testing.T) {
 for _, test := range []struct {
  value  Force
  format string
```

```
 want   string
 }{
  {1.23456789, "%v", "1.23456789 N"},
  {1.23456789, "%.1v", "1 N"},
  {1.23456789, "%20.1v", "                 1 N"},
  {1.23456789, "%20v", "        1.23456789 N"},
  {1.23456789, "%1v", "1.23456789 N"},
  {1.23456789, "%#v", "unit.Force(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Force=1.23456789 N)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
// SPDX-License-Identifier: Unlicense OR MIT

// Package points standard output, standard error and the standard
// library package log to the platform logger.
package log
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "fmt"
 "testing"
)

func TestResistanceFormat(t *testing.T) {
 for _, test := range []struct {
  value  Resistance
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 "},
  {1.23456789, "%.1v", "1 "},
  {1.23456789, "%20.1v", "                 1 "},
  {1.23456789, "%20v", "        1.23456789 "},
  {1.23456789, "%1v", "1.23456789 "},
  {1.23456789, "%#v", "unit.Resistance(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Resistance=1.23456789 )"},
 } {
```

```
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
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// Package encoding provides a common graph encoding API.
package encoding // import "gonum.org/v1/gonum/graph/encoding"
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// license that can be found in the LICENSE file.

// Package gonum contains functions implemented by the gonum team.
// It is here to avoid circular imports and/or double coding of functions.
package gonum // import "gonum.org/v1/gonum/mathext/internal/gonum"
// Code generated by "go generate gonum.org/v1/gonum/unit/constant; DO NOT EDIT.

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// license that can be found in the LICENSE file.

package constant

import "gonum.org/v1/gonum/unit"

// LightSpeedInVacuum is the c constant, the speed of light in a vacuum.
// The dimensions of LightSpeedInVacuum are m s^-1. The constant is exact.
const LightSpeedInVacuum = unit.Velocity(2.99792458e+08)
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package quat

import "math"

// Abs returns the absolute value (also called the modulus) of q.
func Abs(q Number) float64 {
 // Special cases.
 switch {
```

```
 case IsInf(q):
  return math.Inf(1)
 case IsNaN(q):
  return math.NaN()
 }

 r, i, j, k := q.Real, q.Imag, q.Jmag, q.Kmag
 if r < 0 {
  r = -r
 }
 if i < 0 {
  i = -i
 }
 if j < 0 {
  j = -j
 }
 if k < 0 {
  k = -k
 }
 if r < i {
  r, i = i, r
 }
 if r < j {
  r, j = j, r
 }
 if r < k {
  r, k = k, r
 }
 if r == 0 {
  return 0
 }
 i /= r
 j /= r
 k /= r
 return r * math.Sqrt(1+i*i+j*j+k*k)
}
```

Gio

Immediate mode GUI programs in Go for Android, iOS, macOS, Linux, FreeBSD, Windows, and WebAssembly (experimental). See gioui.org for details and documentation.

[![builds.sr.ht status](https://builds.sr.ht/~eliasnaur/gio.svg)](https://builds.sr.ht/~eliasnaur/gio)

Issues

File bugs and TODOs through the [issue tracker](https://todo.sr.ht/~eliasnaur/gio) or send an email to ~eliasnaur/gio@todo.sr.ht. For general discussion, use the

mailing list: ~eliasnaur/gio@lists.sr.ht.

Contributing

Post discussion to the [mailing list](https://lists.sr.ht/~eliasnaur/gio) and patches to
[gio-patches](https://lists.sr.ht/~eliasnaur/gio-patches). No Sourcehut
account is required and you can post without being subscribed.

See the [contribution guide](https://gioui.org/doc/contribute) for more details.

```
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// +build !noasm,!appengine,!safe

package f32

// Ger performs the rank-one operation
//  A += alpha * x * y
// where A is an mn dense matrix, x and y are vectors, and alpha is a scalar.
func Ger(m, n uintptr, alpha float32,
 x []float32, incX uintptr,
 y []float32, incY uintptr,
 a []float32, lda uintptr)
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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// license that can be found in the LICENSE file.

package unit

import (
 "fmt"
 "testing"
)

func TestAccelerationFormat(t *testing.T) {
 for _, test := range []struct {
  value  Acceleration
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 m s^-2"},
  {1.23456789, "%.1v", "1 m s^-2"},
  {1.23456789, "%20.1v", "            1 m s^-2"},
  {1.23456789, "%20v", "   1.23456789 m s^-2"},
  {1.23456789, "%1v", "1.23456789 m s^-2"},
```

```
  {1.23456789, "%#v", "unit.Acceleration(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Acceleration=1.23456789 m s^-2)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
// SPDX-License-Identifier: Unlicense OR MIT

// Package profiles provides access to rendering
// profiles.
package profile

import (
 "gioui.org/internal/opconst"
 "gioui.org/io/event"
 "gioui.org/op"
)

// Op registers a handler for receiving
// Events.
type Op struct {
 Key event.Key
}

// Event contains profile data from a single
// rendered frame.
type Event struct {
 // Timings. Very likely to change.
 Timings string
}

func (p Op) Add(o *op.Ops) {
 data := o.Write(opconst.TypeProfileLen, p.Key)
 data[0] = byte(opconst.TypeProfile)
}

func (p Event) ImplementsEvent() {}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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// license that can be found in the LICENSE file.

package unit
```

```
import (
 "fmt"
 "testing"
)

func TestMoleFormat(t *testing.T) {
 for _, test := range []struct {
  value  Mole
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 mol"},
  {1.23456789, "%.1v", "1 mol"},
  {1.23456789, "%20.1v", "               1 mol"},
  {1.23456789, "%20v", "      1.23456789 mol"},
  {1.23456789, "%1v", "1.23456789 mol"},
  {1.23456789, "%#v", "unit.Mole(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Mole=1.23456789 mol)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
graph{--
[f=4][f=8][f=2][f=2][f=3][f=7][f=2][f=4][f=6][f=6][f=4][f=4][f=9][f=4][f=4][f=4][f=4][f=4][f=1][f=4][f=6][f=6][f=
4][f=1][f=6][f=1][f=2][f=7][f=8][f=2][f=2][f=3][f=7][f=2][f=4][f=6][f=6][f=4][f=4][f=9][f=4][f=4][f=4][f=4][f=4][
f=1][f=4][f=6][f=6][f=4][f=1][f=6][f=1][f=2][f=7][f=1][f=1][f=1][f=1][f=8][f=1][f=1][f=1][f=1][f=1][f=8][f=1][f=3
][f=5][f=1][f=1][f=1][f=9]}
package widget

import (
 "gioui.org/gesture"
 "gioui.org/layout"
)

type Enum struct {
 clicks []gesture.Click
 values []string
 value  string
}

func index(vs []string, t string) int {
 for i, v := range vs {
  if v == t {
   return i
  }
```

```
 }
 return -1
}

// Value processes events and returns the last selected value, or
// the empty string.
func (e *Enum) Value(gtx *layout.Context) string {
 for i := range e.clicks {
  for _, ev := range e.clicks[i].Events(gtx) {
   switch ev.Type {
   case gesture.TypeClick:
    e.value = e.values[i]
   }
  }
 }
 return e.value
}

// Layout adds the event handler for key.
func (rg *Enum) Layout(gtx *layout.Context, key string) {
 if index(rg.values, key) == -1 {
  rg.values = append(rg.values, key)
  rg.clicks = append(rg.clicks, gesture.Click{})
  rg.clicks[len(rg.clicks)-1].Add(gtx.Ops)
 } else {
  idx := index(rg.values, key)
  rg.clicks[idx].Add(gtx.Ops)
 }
}

func (rg *Enum) SetValue(value string) {
 rg.value = value
}
// SPDX-License-Identifier: Unlicense OR MIT

// +build !android,!go1.13

package app

import "os"

func dataDir() (string, error) {
 // Use a quick workaround until we can require go 1.13.
 return os.UserHomeDir()
}
# Go Time

This repository provides supplementary Go time packages.
```

Download/Install

The easiest way to install is to run `go get -u golang.org/x/time`. You can
also manually git clone the repository to `$GOPATH/src/golang.org/x/time`.

Report Issues / Send Patches

This repository uses Gerrit for code changes. To learn how to submit changes to
this repository, see https://golang.org/doc/contribute.html.

The main issue tracker for the time repository is located at
https://github.com/golang/go/issues. Prefix your issue with "x/time:" in the
subject line, so it is easy to find.

```
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package layout

import (
 "gonum.org/v1/gonum/graph"
 "gonum.org/v1/gonum/spatial/r2"
)

// GraphR2 is a graph with planar spatial representation of node positions.
type GraphR2 interface {
 graph.Graph
 LayoutNodeR2(id int64) NodeR2
}

// NodeR2 is a graph node with planar spatial representation of its position.
// A NodeR2 is only valid when the graph.Node is not nil.
type NodeR2 struct {
 graph.Node
 Coord2 r2.Vec
}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "fmt"
 "testing"
```

```
)

func TestMagneticFluxDensityFormat(t *testing.T) {
 for _, test := range []struct {
  value  MagneticFluxDensity
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 T"},
  {1.23456789, "%.1v", "1 T"},
  {1.23456789, "%20.1v", "                 1 T"},
  {1.23456789, "%20v", "        1.23456789 T"},
  {1.23456789, "%1v", "1.23456789 T"},
  {1.23456789, "%#v", "unit.MagneticFluxDensity(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.MagneticFluxDensity=1.23456789 T)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
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package mathext

import "math"

const (
 logPi = 1.1447298858494001741434273513530587116472948 1 // http://oeis.org/A053510
)

// MvLgamma returns the log of the multivariate Gamma function. Dim
// must be greater than zero, and MvLgamma will return NaN if v < (dim-1)/2.
//
// See https://en.wikipedia.org/wiki/Multivariate_gamma_function for more
// information.
func MvLgamma(v float64, dim int) float64 {
 if dim < 1 {
  panic("mathext: negative dimension")
 }
 df := float64(dim)
 if v < (df-1)*0.5 {
  return math.NaN()
 }
 ans := df * (df - 1) * 0.25 * logPi
```

```
 for i := 1; i <= dim; i++ {
  lg, _ := math.Lgamma(v + float64(1-i)*0.5)
  ans += lg
 }
 return ans
}
graph{{"""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""_3_3VO1_1wgYc
8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynkl
S5u4T4zbq9VH7G1_ZAB_8tO9W}""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8t
O9W}"""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""_3_3VO1_1wgYc8
kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS
5u4T4zbq9VH7G1_ZAB_8tO9W}""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8t
O9W}""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}"}}
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// Package combin implements routines involving combinatorics (permutations,
// combinations, etc.).
package combin // import "gonum.org/v1/gonum/stat/combin"
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// Package quad provides numerical evaluation of definite integrals of single-variable functions.
//
package quad // import "gonum.org/v1/gonum/integrate/quad"
      DOUBLE PRECISION FUNCTION MZABS(ZR, ZI)
C***BEGIN PROLOGUE  ZABS
C***REFER TO  ZBESH,ZBESI,ZBESJ,ZBESK,ZBESY,ZAIRY,ZBIRY
C
C     ZABS COMPUTES THE ABSOLUTE VALUE OR MAGNITUDE OF A DOUBLE
C     PRECISION COMPLEX VARIABLE CMPLX(ZR,ZI)
C
C***ROUTINES CALLED  (NONE)
C***END PROLOGUE  ZABS
      DOUBLE PRECISION ZR, ZI, U, V, Q, S

      MZABS = ZABS(CMPLX(ZR,ZI,kind=KIND(1.0D0)))
      RETURN
      END

c     U = DABS(ZR)
c     V = DABS(ZI)
c     S = U + V
C-----------------------------------------------------------------------
C     S*1.0D0 MAKES AN UNNORMALIZED UNDERFLOW ON CDC MACHINES INTO A
C     TRUE FLOATING ZERO
```

```
C-----------------------------------------------------------------------
c     S = S*1.0D+0
c     IF (S.EQ.0.0D+0) GO TO 20
c     IF (U.GT.V) GO TO 10
c     Q = U/V
c     ZABS = V*DSQRT(1.D+0+Q*Q)
c     RETURN
c   10 Q = V/U
c     ZABS = U*DSQRT(1.D+0+Q*Q)
c     RETURN
c   20 ZABS = 0.0D+0
c     RETURN
c     END
```

The Go gopher was designed by Renee French and is licensed under the Creative Commons Attributions 3.0.

```
// SPDX-License-Identifier: Unlicense OR MIT

// +build linux,!android,!nox11 freebsd

package window

import (
 "unsafe"

 "gioui.org/app/internal/egl"
)

type x11Context struct {
 win *x11Window
 *egl.Context
}

func (w *x11Window) NewContext() (Context, error) {
 disp := egl.NativeDisplayType(unsafe.Pointer(w.display()))
 ctx, err := egl.NewContext(disp)
 if err != nil {
  return nil, err
 }
 return &x11Context{win: w, Context: ctx}, nil
}

func (c *x11Context) Release() {
 if c.Context != nil {
  c.Context.Release()
  c.Context = nil
 }
}

func (c *x11Context) MakeCurrent() error {
```

```
 c.Context.ReleaseSurface()
 win, width, height := c.win.window()
 eglSurf := egl.NativeWindowType(uintptr(win))
 if err := c.Context.CreateSurface(eglSurf, width, height); err != nil {
  return err
 }
 if err := c.Context.MakeCurrent(); err != nil {
  return err
 }
 c.Context.EnableVSync(true)
 return nil
}

func (c *x11Context) Lock() {}

func (c *x11Context) Unlock() {}
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package cmplx64

import math "gonum.org/v1/gonum/internal/math32"

// IsInf returns true if either real(x) or imag(x) is an infinity.
func IsInf(x complex64) bool {
 if math.IsInf(real(x), 0) || math.IsInf(imag(x), 0) {
  return true
 }
 return false
}

// Inf returns a complex infinity, complex(+Inf, +Inf).
func Inf() complex64 {
 inf := math.Inf(1)
 return complex(inf, inf)
}
      SUBROUTINE ZEXP(AR, AI, BR, BI)
C***BEGIN PROLOGUE  ZEXP
C***REFER TO  ZBESH,ZBESI,ZBESJ,ZBESK,ZBESY,ZAIRY,ZBIRY
C
C     DOUBLE PRECISION COMPLEX EXPONENTIAL FUNCTION B=EXP(A)
C
C***ROUTINES CALLED  (NONE)
```

```
C***END PROLOGUE  ZEXP
      DOUBLE PRECISION AR, AI, BR, BI, ZM, CA, CB
      ZM = DEXP(AR)
      CA = ZM*DCOS(AI)
      CB = ZM*DSIN(AI)
      BR = CA
      BI = CB
      RETURN
      END
```

```
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// +build gofuzz

package fuzz

import (
 "bytes"
 "os/exec"

 "gonum.org/v1/gonum/graph/formats/dot"
)

// Fuzz implements the fuzzing function required for go-fuzz.
//
// See documentation at https://github.com/dvyukov/go-fuzz.
func Fuzz(data []byte) int {
 // We don't accept empty data; the dot command does.
 if len(data) == 0 || bytes.Equal(data, []byte{0}) {
  return -1
 }

 // Check that dot accepts the input without complaint.
 cmd := exec.Command("dot")
 cmd.Stdin = bytes.NewReader(data)
 err := cmd.Run()
 if err != nil {
  return 0
 }

 // Try to parse the data.
 _, err = dot.Parse(bytes.NewReader(data))
 if err != nil {
  panic("could not parse good dot")
 }
 return 1
}
```

```
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// Package cblas64 provides a simple interface to the complex64 BLAS API.
package cblas64 // import "gonum.org/v1/gonum/blas/cblas64"
//**
source: https://github.com/apache/trafficcontrol/blob/master/LICENSE
**//
{{Types "Apache-2.0 BSD-2-Clause BSD-3-Clause MIT"}}

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))
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// Package blas64 provides a simple interface to the float64 BLAS API.
package blas64 // import "gonum.org/v1/gonum/blas/blas64"
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// license that can be found in the LICENSE file.

package gonum

import (
 "sort"

 "gonum.org/v1/gonum/lapack"
)

// Dlasrt sorts the numbers in the input slice d. If s == lapack.SortIncreasing,
// the elements are sorted in increasing order. If s == lapack.SortDecreasing,
// the elements are sorted in decreasing order. For other values of s Dlasrt
// will panic.
//
// Dlasrt is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dlasrt(s lapack.Sort, n int, d []float64) {
```

```
 switch {
 case n < 0:
  panic(nLT0)
 case len(d) < n:
  panic(shortD)
 }

 d = d[:n]
 switch s {
 default:
  panic(badSort)
 case lapack.SortIncreasing:
  sort.Float64s(d)
 case lapack.SortDecreasing:
  sort.Sort(sort.Reverse(sort.Float64Slice(d)))
 }
}
//**
git.rwth-aachen.de/acs/public/ontology/owl/owl2go@v1.1.0
git.rwth-aachen.de/acs/public/ontology/owl/saref@v0.0.0-20200525140909-5b44cbefaa17
git.rwth-aachen.de/acs/public/cloud/mas/clonemap@v0.0.0-20201023111149-5c55954d016e
**//


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package r3

// Vec is a 3D vector.
type Vec struct {
 X, Y, Z float64
}

// Add returns the vector sum of p and q.
func (p Vec) Add(q Vec) Vec {
 p.X += q.X
 p.Y += q.Y
 p.Z += q.Z
 return p
}
```

```
// Sub returns the vector sum of p and -q.
func (p Vec) Sub(q Vec) Vec {
 p.X -= q.X
 p.Y -= q.Y
 p.Z -= q.Z
 return p
}

// Scale returns the vector p scaled by f.
func (p Vec) Scale(f float64) Vec {
 p.X *= f
 p.Y *= f
 p.Z *= f
 return p
}

// Box is a 3D bounding box.
type Box struct {
 Min, Max Vec
}
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// Package traverse provides basic graph traversal primitives.
package traverse // import "gonum.org/v1/gonum/graph/traverse"
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package gonum

// Iladlc scans a matrix for its last non-zero column. Returns -1 if the matrix
// is all zeros.
//
// Iladlc is an internal routine. It is exported for testing purposes.
func (Implementation) Iladlc(m, n int, a []float64, lda int) int {
 switch {
 case m < 0:
  panic(mLT0)
 case n < 0:
  panic(nLT0)
 case lda < max(1, n):
  panic(badLdA)
 }

 if n == 0 || m == 0 {
```

```
 return -1
}

if len(a) < (m-1)*lda+n {
 panic(shortA)
}

// Test common case where corner is non-zero.
if a[n-1] != 0 || a[(m-1)*lda+(n-1)] != 0 {
 return n - 1
}

// Scan each row tracking the highest column seen.
highest := -1
for i := 0; i < m; i++ {
 for j := n - 1; j >= 0; j-- {
  if a[i*lda+j] != 0 {
   highest = max(highest, j)
   break
  }
 }
}
return highest
}
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// Package graph defines graph interfaces.
//
// Routines to test contract compliance by user implemented graph types
// are available in gonum.org/v1/gonum/graph/testgraph.
package graph // import "gonum.org/v1/gonum/graph"
      SUBROUTINE ZSHCH(ZR, ZI, CSHR, CSHI, CCHR, CCHI)
C***BEGIN PROLOGUE  ZSHCH
C***REFER TO  ZBESK,ZBESH
C
C     ZSHCH COMPUTES THE COMPLEX HYPERBOLIC FUNCTIONS CSH=SINH(X+I*Y)
C     AND CCH=COSH(X+I*Y), WHERE I**2=-1.
C
C***ROUTINES CALLED  (NONE)
C***END PROLOGUE  ZSHCH
C
      DOUBLE PRECISION CCHI, CCHR, CH, CN, CSHI, CSHR, SH, SN, ZI, ZR,
     * DCOSH, DSINH
      SH = DSINH(ZR)
      CH = DCOSH(ZR)
      SN = DSIN(ZI)
```

```
      CN = DCOS(ZI)
      CSHR = SH*CN
      CSHI = CH*SN
      CCHR = CH*CN
      CCHI = SH*SN
      RETURN
      END
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package dual_test

import (
 "fmt"

 "gonum.org/v1/gonum/num/dual"
)

func Example_Number_fike() {
 // Calculate the value and derivative of the function
 // e^x/(sqrt(sin(x)^3 + cos(x)^3)).
 fn := func(x dual.Number) dual.Number {
  return dual.Mul(
   dual.Exp(x),
   dual.Inv(dual.Sqrt(
    dual.Add(
     dual.PowReal(dual.Sin(x), 3),
     dual.PowReal(dual.Cos(x), 3)))))
 }

 v := fn(dual.Number{Real: 1.5, Emag: 1})
 fmt.Printf("v=%.4f\n", v)
 fmt.Printf("fn(1.5)=%.4f\nfn'(1.5)=%.4f\n", v.Real, v.Emag)

 // Output:
 //
 // v=(4.4978+4.0534)
 // fn(1.5)=4.4978
 // fn'(1.5)=4.0534
}
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// Package util provides generated internal utility functions for DOT parsing.
package util // import "gonum.org/v1/gonum/graph/formats/dot/internal/util"
```

// SPDX-License-Identifier: Unlicense OR MIT

// Package widget implements state tracking and event handling of
// common user interface controls. To draw widgets, use a theme
// packages such as package gioui.org/widget/material.
package widget
//** github.com/dropbox/goebpf@v0.0.0-20201020203810-72edb057c378 **//
{{Types "GPL-2.0"}}

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distributed under the License is distributed on an "AS IS" BASIS,
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limitations under the License.
digraph {100->140->120->130->11->18->17->16->31->46->4->4->53->197->19->23->35->67->397->417->407->389->209->289->212->298->291->298->299->300->310->331->321->222->232->23->73->24->84->254->275->435->36->94->159->150->153->343->403->385->26->420->15->13->11->1->15->1->18->46->42->40->196->194->293->307->24}
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// Package testsgraphs provides a number of graphs used for testing
// routines in the path and path/dynamic packages.
package testgraphs // import "gonum.org/v1/gonum/graph/path/internal/testgraphs"
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "fmt"
 "testing"
)

func TestVoltageFormat(t *testing.T) {
 for _, test := range []struct {
  value Voltage
  format string

```
 want   string
 }{
  {1.23456789, "%v", "1.23456789 V"},
  {1.23456789, "%.1v", "1 V"},
  {1.23456789, "%20.1v", "                 1 V"},
  {1.23456789, "%20v", "        1.23456789 V"},
  {1.23456789, "%1v", "1.23456789 V"},
  {1.23456789, "%#v", "unit.Voltage(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Voltage=1.23456789 V)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "fmt"
 "testing"
)

func TestFrequencyFormat(t *testing.T) {
 for _, test := range []struct {
  value  Frequency
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 Hz"},
  {1.23456789, "%.1v", "1 Hz"},
  {1.23456789, "%20.1v", "                 1 Hz"},
  {1.23456789, "%20v", "        1.23456789 Hz"},
  {1.23456789, "%1v", "1.23456789 Hz"},
  {1.23456789, "%#v", "unit.Frequency(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Frequency=1.23456789 Hz)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
```

```
}
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package hyperdual_test

import (
 "fmt"

 "gonum.org/v1/gonum/num/hyperdual"
)

func Example_Number_fike() {
 // Calculate the value and first and second derivatives
 // of the function e^x/(sqrt(sin(x)^3 + cos(x)^3)).
 fn := func(x hyperdual.Number) hyperdual.Number {
  return hyperdual.Mul(
   hyperdual.Exp(x),
   hyperdual.Inv(hyperdual.Sqrt(
    hyperdual.Add(
     hyperdual.PowReal(hyperdual.Sin(x), 3),
     hyperdual.PowReal(hyperdual.Cos(x), 3)))))
 }

 v := fn(hyperdual.Number{Real: 1.5, E1mag: 1, E2mag: 1})
 fmt.Printf("v=%.4f\n", v)
 fmt.Printf("fn(1.5)=%.4f\nfn'(1.5)=%.4f\nfn"(1.5)=%.4f\n", v.Real, v.E1mag, v.E1E2mag)

 // Output:
 //
 // v=(4.4978+4.0534+4.0534+9.4631)
 // fn(1.5)=4.4978
 // fn'(1.5)=4.0534
 // fn"(1.5)=9.4631
}
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// Package blas32 provides a simple interface to the float32 BLAS API.
package blas32 // import "gonum.org/v1/gonum/blas/blas32"
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package optimize
```

```
import (
 "testing"

 "gonum.org/v1/gonum/mat"
 "gonum.org/v1/gonum/optimize/functions"
 "gonum.org/v1/gonum/stat/distmv"
)

func TestGuessAndCheck(t *testing.T) {
 dim := 30
 problem := Problem{
  Func: functions.ExtendedRosenbrock{}.Func,
 }
 mu := make([]float64, dim)
 sigma := mat.NewSymDense(dim, nil)
 for i := 0; i < dim; i++ {
  sigma.SetSym(i, i, 1)
 }
 d, ok := distmv.NewNormal(mu, sigma, nil)
 if !ok {
  panic("bad test")
 }
 initX := make([]float64, dim)
 Minimize(problem, initX, nil, &GuessAndCheck{Rander: d})

 settings := &Settings{}
 settings.Concurrent = 5
 settings.MajorIterations = 15
 Minimize(problem, initX, settings, &GuessAndCheck{Rander: d})
}
program testdsterf
implicit none
integer, parameter :: n = 4
real(kind=8), dimension(n) :: d
real(kind=8), dimension(n-1) :: e
integer :: info,i

d(1:4) = (/1D+00, 3D+00, 4D+00, 6D+00/)
e(1:3) = (/2D+00, 4D+00, 5D+00/)

call dsterf(n,d,e,info)
DO i = 1, n
   print *, d(i)
end do
end
//**
   launchpad.net_ubuntu-push@v0.0.0-20170211001545-000000000177
   github.com/monsti/form@v0.0.0-20140713153911-7d350fe5f89b
```

```
**//

{{Types "GPL-3.0"}}

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package testlapack

import (
 "fmt"
 "strings"
)

// This file implements types for helping to convert to Fortran testing capabilities.

// fortran64 is a float64 type that prints as a double precision constant in
// Fortran format.
type fortran64 float64

func (f fortran64) String() string {
```

```
 // Replace exponent with D
 s := fmt.Sprintf("%0.16E", f)
 s = strings.Replace(s, "E", "D", 1)
 return s
}

// printFortranArray prints a Go slice as an array that can be copied into a
// fortran script.
func printFortranArray(z []float64, name string) {
 fmt.Printf("%s(1:%d) = (/%v, &\n", name, len(z), fortran64(z[0]))
 for i := 1; i < len(z)-1; i++ {
  fmt.Printf("%v, &\n", fortran64(z[i]))
 }
 fmt.Printf("%s/)\n", fortran64(z[len(z)-1]))
}
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package gonum

import (
 "testing"

 "gonum.org/v1/gonum/blas/testblas"
)

func TestZgemm(t *testing.T)  { testblas.ZgemmTest(t, impl) }
func TestZhemm(t *testing.T)  { testblas.ZhemmTest(t, impl) }
func TestZherk(t *testing.T)  { testblas.ZherkTest(t, impl) }
func TestZher2k(t *testing.T) { testblas.Zher2kTest(t, impl) }
func TestZsymm(t *testing.T)  { testblas.ZsymmTest(t, impl) }
func TestZsyrk(t *testing.T)  { testblas.ZsyrkTest(t, impl) }
func TestZsyr2k(t *testing.T) { testblas.Zsyr2kTest(t, impl) }
func TestZtrmm(t *testing.T)  { testblas.ZtrmmTest(t, impl) }
func TestZtrsm(t *testing.T)  { testblas.ZtrsmTest(t, impl) }
graph{4[f=Gra2]4[f=5]3[f=2]3[f=9]6[f=2]6[f=0]9[f=2]9[f=1]5[f=2]5[f=2]6[f=2]6[f=4]6[f=8]0[f=2]3[f=2]3[f=3]3[f
=7]5[f=2]4[f=4]4[f=6]4[f=6]7[f=4]9[f=4]9[f=9]9[f=4]1[f=4]1[f=4]3[f=4]4[f=4]4[f=1]5[f=4]5[f=6]5[f=6]6[f=4]5[f=
1]5[f=6]7[f=1]7[f=2]7[f=7]1[f=1]1[f=1]2[f=1]8[f=1]8[f=8]2[f=1]2[f=3]2[f=5]0[f=1]0[f=1]3[f=1]3[f=9]}
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// Package ast declares the types used to represent abstract syntax trees of
// Graphviz DOT graphs.
package ast // import "gonum.org/v1/gonum/graph/formats/dot/ast"
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```

```
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package topo

// batageljZaversnikGraph is the example graph from
// figure 1 of http://arxiv.org/abs/cs/0310049v1
var batageljZaversnikGraph = []intset{
 0: nil,

 1: linksTo(2, 3),
 2: linksTo(4),
 3: linksTo(4),
 4: linksTo(5),
 5: nil,

 6:  linksTo(7, 8, 14),
 7:  linksTo(8, 11, 12, 14),
 8:  linksTo(14),
 9:  linksTo(11),
 10: linksTo(11),
 11: linksTo(12),
 12: linksTo(18),
 13: linksTo(14, 15),
 14: linksTo(15, 17),
 15: linksTo(16, 17),
 16: nil,
 17: linksTo(18, 19, 20),
 18: linksTo(19, 20),
 19: linksTo(20),
 20: nil,
}

// intset is an integer set.
type intset map[int64]struct{}

func linksTo(i ...int64) intset {
 if len(i) == 0 {
  return nil
 }
 s := make(intset)
 for _, v := range i {
  s[v] = struct{}{}
 }
 return s
}
golang.org/x/sys v0.0.0-20191113165036-4c7a9d0fe056
h1:dHtDnRWQtSx0Hjq9kvKFpBh9uPPKfQN70NZZmvssGwk=
golang.org/x/sys v0.0.0-20191113165036-4c7a9d0fe056/go.mod
```

h1:h1NjWce9XRLGQEsW7wpKNCjG9DtNlClVuFLEZdDNbEs=

```
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "fmt"
 "testing"
)

func TestTorqueFormat(t *testing.T) {
 for _, test := range []struct {
  value  Torque
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 N m"},
  {1.23456789, "%.1v", "1 N m"},
  {1.23456789, "%20.1v", "               1 N m"},
  {1.23456789, "%20v", "      1.23456789 N m"},
  {1.23456789, "%1v", "1.23456789 N m"},
  {1.23456789, "%#v", "unit.Torque(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Torque=1.23456789 N m)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
package gl

import (
 "testing"
)

func TestGoString(t *testing.T) {
 tests := [][2]string{
  {"Hello\x00", "Hello"},
  {"\x00", ""},
 }
 for _, test := range tests {
  got := GoString([]byte(test[0]))
  if exp := test[1]; exp != got {
```

```
  t.Errorf("expected %q got %q", exp, got)
 }
}
}
digraph {e""[e=e,e=8]r st9->st9[l=""]st9->st0[l=""]st8->st8[l=""]st8->st0[l=""]st7->st8[l=""]st7->st7[l=""]st6-
>st6[l=""]st6->st0[l=""]st5->st6[l=""]st5->st5[l=""]st4->st4[l=""]st4->st0[l=""]st3->st4[l=""]st3->st3[l=""]st2-
>st9[l=""]st2->st7[l=""]st2->st2[l=""]st0->st0[l=""]st0->st0[l=""]st1->st5[l=""]st1->st3[l=""]st1->st1[l=""]st0-
>st2[l=""]st0->st1[l=""]st0->st0[l="0/0"];
}
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// Package simple provides a suite of simple graph implementations satisfying
// the gonum/graph interfaces.
//
// All types in simple return the graph.Empty value for empty iterators.
package simple // import "gonum.org/v1/gonum/graph/simple"
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "fmt"
 "testing"
)

func TestVolumeFormat(t *testing.T) {
 for _, test := range []struct {
  value  Volume
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 m^3"},
  {1.23456789, "%.1v", "1 m^3"},
  {1.23456789, "%20.1v", "               1 m^3"},
  {1.23456789, "%20v", "      1.23456789 m^3"},
  {1.23456789, "%1v", "1.23456789 m^3"},
  {1.23456789, "%#v", "unit.Volume(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Volume=1.23456789 m^3)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
```

```
  }
 }
}
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// Gonum is a set of packages designed to make writing numerical and
// scientific algorithms productive, performant, and scalable.
//
// Gonum contains libraries for matrices and linear algebra; statistics,
// probability distributions, and sampling; tools for function
// differentiation, integration, and optimization; network creation and
// analysis; and more.
package gonum // import "gonum.org/v1/gonum"
//** github.com/icheckteam/ichain@v0.22.4 **//

{{Types "Apache-2.0"}}

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if not, you may find it at 'https://www.apache.org/licenses/LICENSE-2.0`
//** github.com/swill/svgo@v0.0.0-20150715025413-bc384fa1e849 **//

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// Package c64 provides complex64 vector primitives.
package c64 // import "gonum.org/v1/gonum/internal/asm/c64"
// SPDX-License-Identifier: Unlicense OR MIT

// +build !go1.14

// Work around golang.org/issue/33384, fixed in CL 191785,
// to be released in Go 1.14.
```

```
package app

import (
 "os"
 "os/signal"
 "syscall"
)

func init() {
 signal.Notify(make(chan os.Signal), syscall.SIGPIPE)
}
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// Package floats provides a set of helper routines for dealing with slices
// of float64. The functions avoid allocations to allow for use within tight
// loops without garbage collection overhead.
//
// The convention used is that when a slice is being modified in place, it has
// the name dst.
package floats // import "gonum.org/v1/gonum/floats"
// SPDX-License-Identifier: Unlicense OR MIT

/*
Package clip provides operations for clipping paint operations.
Drawing outside the current clip area is ignored.

The current clip is initially the infinite set. An Op sets the clip
to the intersection of the current clip and the clip area it
represents. If you need to reset the current clip to its value
before applying an Op, use op.StackOp.

General clipping areas are constructed with Path. Simpler special
cases such as rectangular clip areas also exist as convenient
constructors.
*/
package clip
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package cmplx64
```

```
import math "gonum.org/v1/gonum/internal/math32"

// IsNaN returns true if either real(x) or imag(x) is NaN
// and neither is an infinity.
func IsNaN(x complex64) bool {
 switch {
 case math.IsInf(real(x), 0) || math.IsInf(imag(x), 0):
  return false
 case math.IsNaN(real(x)) || math.IsNaN(imag(x)):
  return true
 }
 return false
}

// NaN returns a complex ``not-a-number'' value.
func NaN() complex64 {
 nan := math.NaN()
 return complex(nan, nan)
}
// SPDX-License-Identifier: Unlicense OR MIT

package gl

import "syscall/js"

type (
 Buffer       js.Value
 Framebuffer  js.Value
 Program      js.Value
 Renderbuffer js.Value
 Shader       js.Value
 Texture      js.Value
 Query        js.Value
 Uniform      js.Value
 Object       js.Value
)

func (p Program) Valid() bool {
 return !js.Value(p).IsUndefined() && !js.Value(p).IsNull()
}

func (s Shader) Valid() bool {
 return !js.Value(s).IsUndefined() && !js.Value(s).IsNull()
}

func (u Uniform) Valid() bool {
 return !js.Value(u).IsUndefined() && !js.Value(u).IsNull()
}
```

```
func (t Texture) Valid() bool {
 return !js.Value(t).IsUndefined() && !js.Value(t).IsNull()
}

func (t Texture) Equal(t2 Texture) bool {
 return js.Value(t).Equal(js.Value(t2))
}
// SPDX-License-Identifier: Unlicense OR MIT

// +build android darwin,ios

package window

// Android only supports non-Java programs as c-shared libraries.
// Unfortunately, Go does not run a program's main function in
// library mode. To make Gio programs simpler and uniform, we'll
// link to the main function here and call it from Java.

import (
 "sync"
 _ "unsafe" // for go:linkname
)

//go:linkname mainMain main.main
func mainMain()

var runMainOnce sync.Once

func runMain() {
 runMainOnce.Do(func() {
  // Indirect call, since the linker does not know the address of main when
  // laying down this package.
  fn := mainMain
  go fn()
 })
}
```

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#
https://developers.google.com/open-source/cla/individual
https://developers.google.com/open-source/cla/corporate
#
Names should be added to this file as:
Name <email address>
Raul Silvera <rsilvera@google.com>
Tipp Moseley <tipp@google.com>
Hyoun Kyu Cho <netforce@google.com>
Martin Spier <spiermar@gmail.com>
Taco de Wolff <tacodewolff@gmail.com>
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// Package samplemv implements advanced sampling routines from explicit and implicit
// probability distributions.
package samplemv // import "gonum.org/v1/gonum/stat/samplemv"
digraph {st9->st9[l=""]st9->st0[l=""]st8->st8[l=""]st8->st0[l=""]st7->st8[l=""]st7->st7[l=""]st6->st6[l=""]st6->st0[l=""]st5->st6[l=""]st5->st5[l=""]st4->st4[l=""]st4->st0[l=""]st3->st4[l=""]st3->st3[l=""]st2->st9[l=""]st2->st7[l=""]st2->st2[l=""]st0->st0[l=""]st0->st0[l=""]st1->st5[l=""]st1->st3[l=""]st1->st1[l=""]st0->st2[l=""]st0->st1[l=""]st0->st0[l=""]}
// SPDX-License-Identifier: Unlicense OR MIT

package key

// ModShortcut is the platform's shortcut modifier, usually the Ctrl
// key. On Apple platforms it is the Cmd key.
const ModShortcut = ModCommand
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   an advertising clause, or
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testdata/COPYING file for details.

```
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package gonum

import (
 "testing"

 "gonum.org/v1/gonum/blas/testblas"
)

func TestDgemm(t *testing.T) {
 testblas.TestDgemm(t, impl)
}

func TestDsymm(t *testing.T) {
 testblas.DsymmTest(t, impl)
}

func TestDtrsm(t *testing.T) {
 testblas.DtrsmTest(t, impl)
}

func TestDsyrk(t *testing.T) {
 testblas.DsyrkTest(t, impl)
}

func TestDsyr2k(t *testing.T) {
 testblas.Dsyr2kTest(t, impl)
}

func TestDtrmm(t *testing.T) {
 testblas.DtrmmTest(t, impl)
}
image: freebsd/latest
packages:
- libX11
- libxkbcommon
- wayland
- mesa-libs
- xorg-vfbserver
- go
sources:
- https://git.sr.ht/~eliasnaur/gio
environment:
  PATH: /home/build/bin:/bin:/usr/local/bin:/usr/bin
tasks:
```

```
- install_gotip: |
    go get golang.org/dl/gotip
    /home/build/go/bin/gotip download
    mkdir /home/build/bin
    ln -s /home/build/go/bin/gotip /home/build/bin/go
- test_gio: |
    cd gio
    go test ./...
- test_example: |
    cd gio/example
    go test ./...
- test_cmd: |
    cd gio/cmd
    go test ./...
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package gonum

import (
 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/testblas"
)

const (
 Sm  = testblas.SmallMat
 Med = testblas.MediumMat
 Lg  = testblas.LargeMat
 Hg  = testblas.HugeMat
)

const (
 T  = blas.Trans
 NT = blas.NoTrans
)
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package testblas

import (
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
```

```
)

func DtrmvBenchmark(b *testing.B, dtrmv Dtrmver, n, lda, incX int, ul blas.Uplo, tA blas.Transpose, d blas.Diag) {
 rnd := rand.New(rand.NewSource(0))
 a := make([]float64, n*lda)
 for i := range a {
  a[i] = rnd.Float64()
 }

 x := make([]float64, n*incX)
 for i := range x {
  x[i] = rnd.Float64()
 }

 b.ResetTimer()
 for i := 0; i < b.N; i++ {
  dtrmv.Dtrmv(ul, tA, d, n, a, lda, x, incX)
 }
}
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// Package f64 provides float64 vector primitives.
package f64 // import "gonum.org/v1/gonum/internal/asm/f64"
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package graph6_test

import (
 "fmt"

 "gonum.org/v1/gonum/graph"
 "gonum.org/v1/gonum/graph/encoding/graph6"
)

func ExampleGraph() {
 // Construct a graph from HOG graph 32194.
 // https://hog.grinvin.org/ViewGraphInfo.action?id=32194
 g := graph6.Graph("H@BQPS^")

 // Get the nodes of the graph and print
 // an adjacency list.
 nodes := g.Nodes()
 fmt.Printf("Number of nodes: %d\n", nodes.Len())
 fmt.Println("Adjacency:")
```

```
 for nodes.Next() {
  fmt.Printf("\t%d: %d\n", nodes.Node().ID(), graph.NodesOf(g.From(nodes.Node().ID())))
 }

 // Output:
 //
 // Number of nodes: 9
 // Adjacency:
 //  0: [5]
 //  1: [5 6]
 //  2: [3 7]
 //  3: [2 5 8]
 //  4: [6 7 8]
 //  5: [0 1 3 8]
 //  6: [1 4 7 8]
 //  7: [2 4 6 8]
 //  8: [3 4 5 6 7]
}
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// +build bounds

package barneshut

const checkBounds = true
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// Package cephes implements functions originally in the Netlib code by Stephen Mosher.
package cephes // import "gonum.org/v1/gonum/mathext/internal/cephes"
// SPDX-License-Identifier: Unlicense OR MIT

package material

import (
 "gioui.org/layout"
 "gioui.org/text"
 "gioui.org/unit"
 "gioui.org/widget"
)

type CheckBox struct {
 checkable
}
```

```
func (t *Theme) CheckBox(label string) CheckBox {
 return CheckBox{
  checkable{
   Label:     label,
   Color:     t.Color.Text,
   IconColor: t.Color.Primary,
   Font: text.Font{
    Size: t.TextSize.Scale(14.0 / 16.0),
   },
   Size:              unit.Dp(26),
   shaper:            t.Shaper,
   checkedStateIcon:   t.checkBoxCheckedIcon,
   uncheckedStateIcon: t.checkBoxUncheckedIcon,
  },
 }
}

func (c CheckBox) Layout(gtx *layout.Context, checkBox *widget.CheckBox) {
 c.layout(gtx, checkBox.Checked(gtx))
 checkBox.Layout(gtx)
}
//** github.com/twitchyliquid64/golang-asm@v0.15.0 **//

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package distuv

type LogProber interface {
 LogProb(float64) float64
}

type Rander interface {
 Rand() float64
}

type RandLogProber interface {
 Rander
 LogProber
}
```

```
type Quantiler interface {
 Quantile(p float64) float64
}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "fmt"
 "testing"
)

func TestCurrentFormat(t *testing.T) {
 for _, test := range []struct {
  value  Current
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 A"},
  {1.23456789, "%.1v", "1 A"},
  {1.23456789, "%20.1v", "                 1 A"},
  {1.23456789, "%20v", "        1.23456789 A"},
  {1.23456789, "%1v", "1.23456789 A"},
  {1.23456789, "%#v", "unit.Current(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Current=1.23456789 A)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
digraph{gs[r=e]n->gt[r=n]n->s[r=e]n->s[r=n]n->c[r=n]gt[r=n]n->r[r=e]n->s[r=n]a:gs->c[r=e]s->i[r=n]s->t[r=n]s-
>t[r=n]s->c[r=n]t->e[r=e]t->c[r=n]t->c[r=n]t->r[r=e]t->e[r=n]c->c[r=n]c->r[r=e]r->t[r=e]r->f[r=e]r->r[r=e]e-
>s[r=d]e->f[r=d]e->d[r=n]s->e[r=n]s->n[r=n]s->t[r=n]s->e[r=e]}
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```

```
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// TODO(kortschak): Implement:
// * edge-weighted PageRank and HITS
// * PersonalizedPageRank:
//    http://infolab.stanford.edu/~backrub/google.html 2.1.2 Intuitive Justification
//    http://ilpubs.stanford.edu:8090/596/1/2003-35.pdf
//    http://www.vldb.org/pvldb/vol7/p1023-maehara.pdf
// * other centrality measures

package network
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// Package mathext implements special math functions not implemented by the
// Go standard library.
package mathext // import "gonum.org/v1/gonum/mathext"
//** github.com/hexops/autogold@v1.1.0 **//

{{Types "Apache-2.0 MIT"}}

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package mat_test

import (
 "fmt"

 "gonum.org/v1/gonum/mat"
)

func ExampleCol() {
 // This example copies the second column of a matrix into col, allocating a new slice of float64.
 m := mat.NewDense(3, 3, []float64{
  2.0, 9.0, 3.0,
  4.5, 6.7, 8.0,
  1.2, 3.0, 6.0,
 })

 col := mat.Col(nil, 1, m)
```

```
 fmt.Printf("col = %#v", col)
 // Output:
 //
 // col = []float64{9, 6.7, 3}
}

func ExampleRow() {
 // This example copies the third row of a matrix into row, allocating a new slice of float64.
 m := mat.NewDense(3, 3, []float64{
  2.0, 9.0, 3.0,
  4.5, 6.7, 8.0,
  1.2, 3.0, 6.0,
 })

 row := mat.Row(nil, 2, m)

 fmt.Printf("row = %#v", row)
 // Output:
 //
 // row = []float64{1.2, 3, 6}
}
graph{{"_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""_3_3VO1_1wgYc8k
Rij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5
u4T4zbq9VH7G1_ZAB_8tO9W}""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO
9W}""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""_3_3VO1_1wgYc8kRi
j8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}"}}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "fmt"
 "testing"
)

func TestTemperatureFormat(t *testing.T) {
 for _, test := range []struct {
  value  Temperature
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 K"},
  {1.23456789, "%.1v", "1 K"},
```

```
  {1.23456789, "%20.1v", "                 1 K"},
  {1.23456789, "%20v", "        1.23456789 K"},
  {1.23456789, "%1v", "1.23456789 K"},
  {1.23456789, "%#v", "unit.Temperature(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Temperature=1.23456789 K)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
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package quat

func lift(v float64) Number {
 return Number{Real: v}
}

func split(q Number) (float64, Number) {
 return q.Real, Number{Imag: q.Imag, Jmag: q.Jmag, Kmag: q.Kmag}
}

func join(w float64, uv Number) Number {
 uv.Real = w
 return uv
}

func unit(q Number) Number {
 return Scale(1/Abs(q), q)
}
//** github.com/xdrpp/stc@v0.1.2 **//

{{Types "GPL-3.0-or-later Apache-2.0"}}
```

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```
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package cmplx64

import math "gonum.org/v1/gonum/internal/math32"

// Abs returns the absolute value (also called the modulus) of x.
func Abs(x complex64) float32 { return math.Hypot(real(x), imag(x)) }
// SPDX-License-Identifier: Unlicense OR MIT

package window

import (
 "unsafe"

 "gioui.org/app/internal/egl"
)

type context struct {
 win *window
 *egl.Context
}

func (w *window) NewContext() (Context, error) {
 disp := egl.NativeDisplayType(unsafe.Pointer(w.HDC()))
 ctx, err := egl.NewContext(disp)
 if err != nil {
```

```
  return nil, err
 }
 return &context{win: w, Context: ctx}, nil
}

func (c *context) Release() {
 if c.Context != nil {
  c.Context.Release()
  c.Context = nil
 }
}

func (c *context) MakeCurrent() error {
 c.Context.ReleaseSurface()
 win, width, height := c.win.HWND()
 eglSurf := egl.NativeWindowType(win)
 if err := c.Context.CreateSurface(eglSurf, width, height); err != nil {
  return err
 }
 if err := c.Context.MakeCurrent(); err != nil {
  return err
 }
 c.Context.EnableVSync(true)
 return nil
}

func (c *context) Lock() {}

func (c *context) Unlock() {}
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// Package dot implements GraphViz DOT marshaling and unmarshaling of graphs.
//
// See the GraphViz DOT Guide and the DOT grammar for more information
// on using specific aspects of the DOT language:
//
// DOT Guide: https://www.graphviz.org/pdf/dotguide.pdf
//
// DOT grammar: http://www.graphviz.org/doc/info/lang.html
//
// Attribute quoting
//
// Attributes and IDs are quoted if needed during marshalling, to conform with
// valid DOT syntax. Quoted IDs and attributes are unquoted during unmarshaling,
// so the data is kept in raw form. As an exception, quoted text with a leading
// `"<` and a trailing `>"` is not unquoted to ensure preservation of the string
```

// during a round-trip.
package dot // import "gonum.org/v1/gonum/graph/encoding/dot"
//** github.com/cevatbarisyilmaz/gstats@v0.1.5 **//

{{Types "CC-BY-SA-4.0"}}

By default, gstats uses https://github.com/cevatbarisyilmaz/ip2country for geolocation,
which internally uses [GeoLite2](https://dev.maxmind.com/geoip/geoip2/geolite2/) database by Maxmind.
As GeoLite2 is distributed under
[Creative Commons Attribution-ShareAlike 4.0 International License](https://creativecommons.org/licenses/by-sa/4.0/),
gstats also uses the same license due to license's terms.

However, you can override the geolocation function to use another geolocation source
or maybe to not use geolocation at all. In this case, you can use gstats with
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// Package hyperdual provides the hyperdual numeric type and functions. Hyperdual
// numbers are an extension of the real numbers in the form a+b+b+d where
// ^2=0 and ^2=0, but 0, 0 and 0.
//
// See https://doi.org/10.2514/6.2011-886 and http://adl.stanford.edu/hyperdual/ for
// details of their properties and uses.
package hyperdual // imports "gonum.org/v1/gonum/num/hyperdual"

// TODO(kortschak): Handle special cases properly.
// - Pow
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package gonum

import (
 "testing"

 "gonum.org/v1/gonum/blas/testblas"
)

func TestDzasum(t *testing.T) {
 testblas.DzasumTest(t, impl)
}

func TestDznrm2(t *testing.T) {
 testblas.Dznrm2Test(t, impl)

```
}

func TestIzamax(t *testing.T) {
 testblas.IzamaxTest(t, impl)
}

func TestZaxpy(t *testing.T) {
 testblas.ZaxpyTest(t, impl)
}

func TestZcopy(t *testing.T) {
 testblas.ZcopyTest(t, impl)
}

func TestZdotc(t *testing.T) {
 testblas.ZdotcTest(t, impl)
}

func TestZdotu(t *testing.T) {
 testblas.ZdotuTest(t, impl)
}

func TestZdscal(t *testing.T) {
 testblas.ZdscalTest(t, impl)
}

func TestZscal(t *testing.T) {
 testblas.ZscalTest(t, impl)
}

func TestZswap(t *testing.T) {
 testblas.ZswapTest(t, impl)
}
```

Gonum integrate

[![GoDoc](https://godoc.org/gonum.org/v1/gonum/integrate?status.svg)](https://godoc.org/gonum.org/v1/gonum/integrate)

Package integrate provides numerical evaluation of definite integrals of single-variable functions for the Go programming language.

```
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// Package dualcmplx provides the anti-commutative dual complex numeric
// type and functions.
//
// See https://arxiv.org/abs/1601.01754v1 for details.
package dualcmplx // imports "gonum.org/v1/gonum/num/dualcmplx"
```

```
// TODO(kortschak): Handle special cases properly.
//  - Pow
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package mathext

import (
 "math"
 "testing"
)

func TestAiry(t *testing.T) {
 for _, test := range []struct {
  z, ans complex128
 }{
  // Results computed using Octave.
  {5, 1.08344428136074e-04},
  {5i, 29.9014823980070 + 21.6778315987835i},
 } {
  ans := AiryAi(test.z)
  if math.Abs(real(ans)-real(test.ans)) > 1e-10 {
   t.Errorf("Real part mismatch. Got %v, want %v", real(ans), real(test.ans))
  }
  if math.Abs(imag(ans)-imag(test.ans)) > 1e-10 {
   t.Errorf("Imaginary part mismatch. Got %v, want %v", imag(ans), imag(test.ans))
  }
 }
}
//**
gitlab.com/ecp-ci/jacamar-plugins@v0.1.0
gitlab.com/ecp-ci/jacamar-ci@v0.3.2
**//

{{Types "Apache-2.0 MIT"}}

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((CI || Plugins))
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((CI || Plugins))
project are retained
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```

```
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package gonum

// Iladlr scans a matrix for its last non-zero row. Returns -1 if the matrix
// is all zeros.
//
// Iladlr is an internal routine. It is exported for testing purposes.
func (Implementation) Iladlr(m, n int, a []float64, lda int) int {
 switch {
 case m < 0:
  panic(mLT0)
 case n < 0:
  panic(nLT0)
 case lda < max(1, n):
  panic(badLdA)
 }

 if n == 0 || m == 0 {
  return -1
 }

 if len(a) < (m-1)*lda+n {
  panic(shortA)
 }

 // Check the common case where the corner is non-zero
 if a[(m-1)*lda] != 0 || a[(m-1)*lda+n-1] != 0 {
  return m - 1
 }
 for i := m - 1; i >= 0; i-- {
  for j := 0; j < n; j++ {
   if a[i*lda+j] != 0 {
    return i
   }
  }
 }
 return -1
}
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// Package cmplx64 provides complex64 versions of standard library math/cmplx
// package routines used by gonum/blas.
package cmplx64 // import "gonum.org/v1/gonum/internal/cmplx64"
```

```
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// Package set provides integer and graph.Node sets.
package set // import "gonum.org/v1/gonum/graph/internal/set"
package mem

import (
 "unsafe"

 "golang.org/x/sys/windows"
)

func mmap(size uint) (unsafe.Pointer, error) {
 p, err := windows.VirtualAlloc(0, uintptr(size), windows.MEM_COMMIT|windows.MEM_RESERVE,
windows.PAGE_READWRITE)
 if err != nil {
  return nil, err
 }
 return unsafe.Pointer(p), nil
}

func munmap(p unsafe.Pointer) error {
 return windows.VirtualFree(uintptr(p), 0, windows.MEM_RELEASE)
}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "fmt"
 "testing"
)

func TestRadioactivityFormat(t *testing.T) {
 for _, test := range []struct {
  value  Radioactivity
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 Bq"},
  {1.23456789, "%.1v", "1 Bq"},
  {1.23456789, "%20.1v", "               1 Bq"},
```

```
  {1.23456789, "%20v", "       1.23456789 Bq"},
  {1.23456789, "%1v", "1.23456789 Bq"},
  {1.23456789, "%#v", "unit.Radioactivity(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Radioactivity=1.23456789 Bq)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "fmt"
 "testing"
)

func TestAreaFormat(t *testing.T) {
 for _, test := range []struct {
  value  Area
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 m^2"},
  {1.23456789, "%.1v", "1 m^2"},
  {1.23456789, "%20.1v", "               1 m^2"},
  {1.23456789, "%20v", "      1.23456789 m^2"},
  {1.23456789, "%1v", "1.23456789 m^2"},
  {1.23456789, "%#v", "unit.Area(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Area=1.23456789 m^2)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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```

```
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package unit

import (
 "fmt"
 "testing"
)

func TestVelocityFormat(t *testing.T) {
 for _, test := range []struct {
  value  Velocity
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 m s^-1"},
  {1.23456789, "%.1v", "1 m s^-1"},
  {1.23456789, "%20.1v", "            1 m s^-1"},
  {1.23456789, "%20v", "   1.23456789 m s^-1"},
  {1.23456789, "%1v", "1.23456789 m s^-1"},
  {1.23456789, "%#v", "unit.Velocity(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Velocity=1.23456789 m s^-1)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
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//go:generate go run generate_defined_types.go
//go:generate go run generate_constants.go defined_types.go

// Package constant provides fundamental constants satisfying unit.Uniter.
//
// Constant values reflect the values published at https://physics.nist.gov/cuu/index.html
// and are subject to change when the published values are updated.
package constant
digraph{gs->gt[r=n]n->s[r=e]n->gt[r=n]n->s[r=e]n->s->s[r=n]n->c[r=n]gt[r=n]n->r[r=e]n->s[r=n]a:gs->c[r=e]s-
>i[r=n]s->t[r=n]s->t[r=n]s->c[r=n]t->e[r=e]t->c[r=n]t->c[r=n]t->r[r=e]t->e[r=n]c->c[r=n]c->r[r=e]r->t[r=e]r-
>f[r=e]r->r[r=e]e->s[r=d]e->f[r=d]e->d[r=n]s->e[r=n]s->n[r=n]s->t[r=n]s->e[r=e]}
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```

```
package testblas

const (
 SmallMat  = 10
 MediumMat = 100
 LargeMat  = 1000
 HugeMat   = 10000
)
// Code generated by "go generate gonum.org/v1/gonum/unit/constant; DO NOT EDIT.

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package constant

import (
 "fmt"
 "testing"
)

func TestBoltzmannFormat(t *testing.T) {
 for _, test := range []struct {
  format string
  want   string
 }{
  {"%v", "1.380649e-23 kg m^2 K^-1 s^-2"},
  {"%.1v", "1e-23 kg m^2 K^-1 s^-2"},
  {"%50.1v", "                        1e-23 kg m^2 K^-1 s^-2"},
  {"%50v", "                  1.380649e-23 kg m^2 K^-1 s^-2"},
  {"%1v", "1.380649e-23 kg m^2 K^-1 s^-2"},
  {"%#v", "constant.boltzmannUnits(1.380649e-23)"},
  {"%s", "%!s(constant.boltzmannUnits=1.380649e-23 kg m^2 K^-1 s^-2)"},
 } {
  got := fmt.Sprintf(test.format, Boltzmann)
  if got != test.want {
   t.Errorf("Format %q: got: %q want: %q", test.format, got, test.want)
  }
 }
}
// SPDX-License-Identifier: Unlicense OR MIT

/*
Package storage implements read and write storage permissions
on mobile devices.

Android
```

The following entries will be added to AndroidManifest.xml:

```
   <uses-permission android:name="android.permission.READ_EXTERNAL_STORAGE"/>
   <uses-permission android:name="android.permission.WRITE_EXTERNAL_STORAGE"/>
```

READ_EXTERNAL_STORAGE and WRITE_EXTERNAL_STORAGE are "dangerous" permissions.
See documentation for package gioui.org/app/permission for more information.
*/
package storage
//** github.com/libp2p/hydra-booster@v0.7.3 **//

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package unit

```
import (
 "fmt"
 "testing"
)

func TestConductanceFormat(t *testing.T) {
 for _, test := range []struct {
  value  Conductance
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 S"},
  {1.23456789, "%.1v", "1 S"},
  {1.23456789, "%20.1v", "                 1 S"},
  {1.23456789, "%20v", "        1.23456789 S"},
  {1.23456789, "%1v", "1.23456789 S"},
  {1.23456789, "%#v", "unit.Conductance(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Conductance=1.23456789 S)"},
 } {
```

```
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
---
name: Feature request
about: Request an addition to an existing package

---
<!--
Please make sure your issue title matches the Go convention; a summary
of the problem, prefixed by the primary affected package.
-->
### What are you trying to do?
<!-- Describe the problem you are trying to solve. -->


### What did you try?
<!-- Please include a link to a minimal reproducer here. -->


### How does Gonum not allow you to achieve your goal?


### What version of Go and Gonum are you using?
<!--
Paste the output of `go version` and if you are installing Gonum from source, paste
the output of `(cd $(go env GOPATH)/src/gonum.org/v1/gonum && git rev-parse HEAD)`.
-->


### Is this feature absent from the current master?


### Are you able to help contribute the feature?
<!-- Can you provide code contributions or information to help? -->
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package unit

import (
 "fmt"
```

```
 "testing"
)

func TestInductanceFormat(t *testing.T) {
 for _, test := range []struct {
  value  Inductance
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 H"},
  {1.23456789, "%.1v", "1 H"},
  {1.23456789, "%20.1v", "                 1 H"},
  {1.23456789, "%20v", "        1.23456789 H"},
  {1.23456789, "%1v", "1.23456789 H"},
  {1.23456789, "%#v", "unit.Inductance(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Inductance=1.23456789 H)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
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// Package cblas128 provides a simple interface to the complex128 BLAS API.
package cblas128 // import "gonum.org/v1/gonum/blas/cblas128"
graph
{node[f=4][f=8][f=2][f=2][f=3][f=7][f=2][f=4][f=6][f=6][f=4][f=4][f=9][f=4][D=4][f=4][f=4][f=4][f=1][f=4][f=6][
f=6][f=4][f=1][f=6][f=1][f=2][f=7][f=8][f=2][f=2][f=3][f=7][f=2][f=4][f=6][f=6][d=4][f=4][f=9][f=4][f=4][f=4][f=
4][f=4][f=1][f=4][f=6][f=6][f=4][f=1][f=6][f=1][f=2][f=7][f=1][f=1][f=1][f=1][f=8][f=1][f=1][f=1][f=1][f=1][f=8][
f=1][f=3][f=5][f=1][f=1][f=1][f=9]}
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// Package dualquat provides the dual quaternion numeric type and functions.
//
// Dual quaternions provide a system for rigid transformation with interpolation
// and blending in . See https://www.cs.utah.edu/~ladislav/kavan06dual/kavan06dual.pdf and
// https://en.wikipedia.org/wiki/Dual_quaternion for more details.
package dualquat // imports "gonum.org/v1/gonum/num/dualquat"

// TODO(kortschak): Handle special cases properly.
//  - Pow
```

//** github.com/andreasbriese/bbloom@v0.0.0-20190825152654-46b345b51c96 **//

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```
package unit

import (
 "fmt"
 "testing"
)

func TestLuminousIntensityFormat(t *testing.T) {
 for _, test := range []struct {
  value  LuminousIntensity
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 cd"},
  {1.23456789, "%.1v", "1 cd"},
  {1.23456789, "%20.1v", "               1 cd"},
  {1.23456789, "%20v", "       1.23456789 cd"},
  {1.23456789, "%1v", "1.23456789 cd"},
  {1.23456789, "%#v", "unit.LuminousIntensity(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.LuminousIntensity=1.23456789 cd)"},
 } {
```

```
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
package app

import (
 "gioui.org/app/internal/window"
)

type Handle window.Handle

// PlatformHandle returns the Android platform-specific Handle.
func PlatformHandle() *Handle {
 return (*Handle)(window.PlatformHandle)
}

// androidDriver is an interface that allows the Window's run method
// to call the RegisterFragment method of the Android window driver.
type androidDriver interface {
 RegisterFragment(string)
}

// RegisterFragment constructs a Java instance of the specified class
// and registers it as a Fragment in the Context in which the View was
// created.
func (w *Window) RegisterFragment(del string) {
 go func() {
  w.driverFuncs <- func() {
   d := w.driver.(androidDriver)
   d.RegisterFragment(del)
  }
 }()
}
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package gen

import "gonum.org/v1/gonum/graph"

// GraphBuilder is a graph that can have nodes and edges added.
type GraphBuilder interface {
 HasEdgeBetween(xid, yid int64) bool
 graph.Builder
```

```
}

func abs(a int) int {
 if a < 0 {
  return -a
 }
 return a
}
// SPDX-License-Identifier: Unlicense OR MIT

package path

import (
 "unsafe"
)

// The vertex data suitable for passing to vertex programs.
type Vertex struct {
 CornerX, CornerY int16
 MaxY             float32
 FromX, FromY     float32
 CtrlX, CtrlY     float32
 ToX, ToY         float32
}

const VertStride = 7*4 + 2*2

func init() {
 // Check that struct vertex has the expected size and
 // that it contains no padding.
 if unsafe.Sizeof(*(*Vertex)(nil)) != VertStride {
  panic("unexpected struct size")
 }
}
digraph {nodep.5[e=d,h=.1,t=.1]node0[l="<f |f |f |f |f |f | ",t=0][h=5]node1[l="{n n |  |p }"]node2[l="{n a  |  |p
}"]node3[l="{n i  |  |p }"]node4[l="{n e  |  |p }"]node5[l="{n t |  |p }"]node6[l="{n o |  |p }"]node7[l="{n s |  |p
}"]node0:f0->node1:n node0:f1->node2:n node0:f2->node3:n node0:f5->node4:n node0:f6->node5:n node2->node6:n
node4->node7:n}
---
name: Proposal
about: Propose a new package or significant addition of functionality

---
<!--
Please make sure your issue title matches the Go convention; a summary
of the problem, prefixed by "proposal:" and the primary affected package.

It may be worth discussing the proposal at the Gonum discussion list
```

before filing the proposal issue:

https://groups.google.com/forum/#!forum/gonum-dev
-->
Background

Proposal

Potential impact of proposal
<!-- Extent of change, amount of work to implement, who will do the work? etc. -->
```
# C preprocessing directives act as comments.
/* block comment */
// keywords are case-insensitive.
graph {
 node []
 Node []
 NODE []
 edge []
 Edge []
 EDGE []
 subgraph {}
 subGraph {}
 Subgraph {}
 SubGraph {}
 SUBGRAPH S {}
 A; B [style=filled, fillcolor=red]
 C:nw -- D:se
 "foo"
 .10
 -20
 3.14
 F [label=<<div>foo</div>>]
 H [label=<<div></div>>]
 _foo
 a10
}
Graph {
}
GRAPH {
}
digraph {
}
Digraph {
}
diGraph {
}
```

DiGraph {
}
DIGRAPH {
}
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// Package spatial provides spatial statistical functions.
package spatial // import "gonum.org/v1/gonum/stat/spatial"
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// Package linear provides common linear data structures.
package linear // import "gonum.org/v1/gonum/graph/internal/linear"
digraph{node_->node_;node_[l=""]node_[l=""]node_->node_ node_[l=""]node_->node_ node_[l=""]node_->node_ node_[l=""]node_->node_ node_[l=""]node_->node_ node_[l=""]node_->node_ node_[l=""]node_->node_ node_[l=""]node_->node_ node_[l=""]node_->node_ node_[l=""]node_->node_ node_[l=""]node_->node_ node_[l=""]node_->node_ node_[l=""]node_->node_->2}
// Code generated by "go generate gonum.org/v1/gonum/unit/constant; DO NOT EDIT.

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package constant

import "gonum.org/v1/gonum/unit"

// FineStructure is the fine structure constant (), it describes the strength of the electromagnetic interaction between elementary charged particles. The standard uncertainty of the constant is 1.1e-12 .
const FineStructure = unit.Dimless(0.0072973525693)
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// Package error provides generated internal error functions for DOT parsing.
package errors // import "gonum.org/v1/gonum/graph/formats/dot/internal/errors"
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package quat

```
import "math"

// IsInf returns true if any of real(q), imag(q), jmag(q), or kmag(q) is an infinity.
func IsInf(q Number) bool {
 return math.IsInf(q.Real, 0) || math.IsInf(q.Imag, 0) || math.IsInf(q.Jmag, 0) || math.IsInf(q.Kmag, 0)
}

// Inf returns a quaternion infinity, quaternion(+Inf, +Inf, +Inf, +Inf).
func Inf() Number {
 inf := math.Inf(1)
 return Number{Real: inf, Imag: inf, Jmag: inf, Kmag: inf}
}
<?xml version="1.0" encoding="UTF-8"?>
<gexf xmlns="http://www.gexf.net/1.2draft" version="1.2">
 <graph>
   <nodes>
     <node id="a" label="cheese" />
     <node id="b" label="cherry" />
     <node id="c" label="cake">
       <parents>
         <parent for="a" />
         <parent for="b" />
       </parents>
     </node>
   </nodes>
 </graph>
</gexf>
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// Package testblas provides tests for blas implementations.
package testblas // import "gonum.org/v1/gonum/blas/testblas"
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// Package barneshut provides routines for calculating n-body force approximations
// using the Barnes-Hut algorithm.
//
// See https://en.wikipedia.org/wiki/BarnesHut_simulation, http://arborjs.org/docs/barnes-hut
// and https://jheer.github.io/barnes-hut/ for details.
package barneshut // import "gonum.org/v1/gonum/spatial/barneshut"
graph {
 node []
 node []
 node []
 edge []
```

```
 edge []
 edge []
 {}
 {}
 {}
 {}
 subgraph S {}
 A
 B [style=filled fillcolor=red]
 C:nw -- D:se
 "foo"
 .10
 -20
 3.14
 F [label=<<div>foo</div>>]
 H [label=<<div></div>>]
 _foo
 a10
}
graph {
}
graph {
}
digraph {
}
digraph {
}
digraph {
}
digraph {
}
digraph {
}
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package quat

import (
 "math"
 "testing"
)

var absTests = []struct {
 q    Number
 want float64
}{
```

```
 {q: Number{}, want: 0},
 {q: NaN(), want: nan},
 {q: Inf(), want: inf},
 {q: Number{Real: 1, Imag: 1, Jmag: 1, Kmag: 1}, want: 2},
 {q: Number{Real: -1, Imag: 1, Jmag: -1, Kmag: 1}, want: 2},
 {q: Number{Real: 1, Imag: 2, Jmag: 3, Kmag: 4}, want: math.Sqrt(1 + 4 + 9 + 16)},
 {q: Number{Real: -1, Imag: -2, Jmag: -3, Kmag: -4}, want: math.Sqrt(1 + 4 + 9 + 16)},
}

func TestAbs(t *testing.T) {
 for _, test := range absTests {
  got := Abs(test.q)
  if math.IsNaN(test.want) {
   if !math.IsNaN(got) {
    t.Errorf("unexpected result for Abs(%v): got:%v want:%v", test.q, got, test.want)
   }
   continue
  }
  if got != test.want {
   t.Errorf("unexpected result for Abs(%v): got:%v want:%v", test.q, got, test.want)
  }
 }
}
```

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```
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package math32

import "math"

// Signbit returns true if x is negative or negative zero.
func Signbit(x float32) bool {
 return math.Float32bits(x)&(1<<31) != 0
}
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// Package optimize implements algorithms for finding the optimum value of functions.
```

package optimize // import "gonum.org/v1/gonum/optimize"
//** github.com/daveadams/vax **//

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package floats_test

```
import (
 "bufio"
 "fmt"
 "log"
 "strings"

 "gonum.org/v1/gonum/floats"
 "gonum.org/v1/gonum/stat"
)

func ExampleParseWithNA() {
 // Calculate the mean of a list of numbers
 // ignoring missing values.
 const data = `6
missing
4
`

 var vals, weights []float64
 sc := bufio.NewScanner(strings.NewReader(data))
 for sc.Scan() {
  v, w, err := floats.ParseWithNA(sc.Text(), "missing")
  if err != nil {
   log.Fatal(err)
  }
```

```
 vals = append(vals, v)
 weights = append(weights, w)
}
err := sc.Err()
if err != nil {
 log.Fatal(err)
}
fmt.Println(stat.Mean(vals, weights))

// Output:
// 5
}
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// Package stat provides generalized statistical functions.
package stat // import "gonum.org/v1/gonum/stat"
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// Package token provides generated internal tokenizing functions for DOT parsing.
package token // import "gonum.org/v1/gonum/graph/formats/dot/internal/token"
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// Package dot implements a parser for Graphviz DOT files.
package dot // import "gonum.org/v1/gonum/graph/formats/dot"
Gonum LAPACK
[![GoDoc](https://godoc.org/gonum.org/v1/gonum/lapack?status.svg)](https://godoc.org/gonum.org/v1/gonum/lapac
k)
======

A collection of packages to provide LAPACK functionality for the Go programming
language (http://golang.org). This provides a partial implementation in native go
and a wrapper using cgo to a c-based implementation.

## Installation

```
 go get gonum.org/v1/gonum/lapack/...
```

Packages

lapack
```

Defines the LAPACK API based on http://www.netlib.org/lapack/lapacke.html

lapack/gonum

Go implementation of the LAPACK API (incomplete, implements the `float64` API).

lapack/lapack64

Wrappers for an implementation of the double (i.e., `float64`) precision real parts of
the LAPACK API.
[<img src="https://avatars1.githubusercontent.com/u/3771091?v=3&s=30">](https://github.com/gonum) Working Together

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- Be friendly and welcoming
- Be patient
- Be thoughtful
- Be respectful
- Be charitable
- Avoid destructive behavior

Excerpted from the [Go conduct document](https://golang.org/conduct).
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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```
package unit

import (
 "fmt"
 "testing"
)

func TestAngleFormat(t *testing.T) {
 for _, test := range []struct {
  value  Angle
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 rad"},
  {1.23456789, "%.1v", "1 rad"},
  {1.23456789, "%20.1v", "               1 rad"},
  {1.23456789, "%20v", "      1.23456789 rad"},
```

```
  {1.23456789, "%1v", "1.23456789 rad"},
  {1.23456789, "%#v", "unit.Angle(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Angle=1.23456789 rad)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
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package distmat

var badDim = "distmat: dimension mismatch"
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// Package topo provides graph topology analysis functions.
package topo // import "gonum.org/v1/gonum/graph/topo"
<?xml version="1.0" encoding="UTF-8"?>
<gexf xmlns="http://www.gexf.net/1.2draft" xmlns:viz="http://www.gexf.net/1.2draft/viz"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.gexf.net/1.2draft
http://www.gexf.net/1.2draft/gexf.xsd" version="1.2">
  <graph>
     <nodes>
        <node id="a" label="glossy">
   <viz:color r="239" g="173" b="66" a="0.6"/>
   <viz:position x="15.783598" y="40.109245" z="0.0"/>
   <viz:size value="2.0375757"/>
     </node>
      </nodes>
  </graph>
</gexf>
      SUBROUTINE ZDIV(AR, AI, BR, BI, CR, CI)
C***BEGIN PROLOGUE  ZDIV
C***REFER TO  ZBESH,ZBESI,ZBESJ,ZBESK,ZBESY,ZAIRY,ZBIRY
C
C     DOUBLE PRECISION COMPLEX DIVIDE C=A/B.
C
C***ROUTINES CALLED  ZABS
C***END PROLOGUE  ZDIV
      DOUBLE PRECISION AR, AI, BR, BI, CR, CI, BM, CA, CB, CC, CD
      DOUBLE PRECISION ZABS
      BM = 1.0D0/ZABS(CMPLX(BR,BI,kind=KIND(1.0D0)))
```

```
      CC = BR*BM
      CD = BI*BM
      CA = (AR*CC+AI*CD)*BM
      CB = (AI*CC-AR*CD)*BM
      CR = CA
      CI = CB
      RETURN
      END
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package gonum

import (
 "testing"

 "gonum.org/v1/gonum/lapack/testlapack"
)

func BenchmarkDgeev(b *testing.B) { testlapack.DgeevBenchmark(b, impl) }
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package c64

func conj(c complex64) complex64 { return complex(real(c), -imag(c)) }
// SPDX-License-Identifier: Unlicense OR MIT

package material

import (
 "gioui.org/layout"
 "gioui.org/text"
 "gioui.org/unit"
 "gioui.org/widget"
)

type RadioButton struct {
 checkable
 Key string
}

// RadioButton returns a RadioButton with a label. The key specifies
// the value for the Enum.
func (t *Theme) RadioButton(key, label string) RadioButton {
 return RadioButton{
```

```
  checkable: checkable{
   Label: label,

   Color:     t.Color.Text,
   IconColor: t.Color.Primary,
   Font: text.Font{
    Size: t.TextSize.Scale(14.0 / 16.0),
   },
   Size:              unit.Dp(26),
   shaper:            t.Shaper,
   checkedStateIcon:   t.radioCheckedIcon,
   uncheckedStateIcon: t.radioUncheckedIcon,
  },
  Key: key,
 }
}

func (r RadioButton) Layout(gtx *layout.Context, enum *widget.Enum) {
 r.layout(gtx, enum.Value(gtx) == r.Key)
 enum.Layout(gtx, r.Key)
}
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package cephes

import "math"

/*
Additional copyright information:

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See https://github.com/deepmind/torch-cephes/blob/master/LICENSE.txt and
https://lists.debian.org/debian-legal/2004/12/msg00295.html
*/

var (
 badParamOutOfBounds         = "cephes: parameter out of bounds"
 badParamFunctionSingularity = "cephes: function singularity"
)

const (
 machEp  = 1.0 / (1 << 53)
 maxLog  = 1024 * math.Ln2
 minLog  = -1075 * math.Ln2
 maxIter = 2000
```

```
)
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package testlapack

import (
 "testing"

 "gonum.org/v1/gonum/blas"
)

type Dlauumer interface {
 Dlauum(uplo blas.Uplo, n int, a []float64, lda int)
}

func DlauumTest(t *testing.T, impl Dlauumer) {
 for _, uplo := range []blas.Uplo{blas.Upper, blas.Lower} {
  name := "Upper"
  if uplo == blas.Lower {
   name = "Lower"
  }
  t.Run(name, func(t *testing.T) {
   // Include small and large sizes to make sure that both
   // unblocked and blocked paths are taken.
   ns := []int{0, 1, 2, 3, 4, 5, 10, 25, 31, 32, 33, 63, 64, 65, 127, 128, 129}
   dlauuTest(t, impl.Dlauum, uplo, ns)
  })
 }
}
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package mathext

import (
 "math"
 "testing"
)

func TestMvLgamma(t *testing.T) {
 // Values compared with scipy
 for i, test := range []struct {
  v   float64
  dim int
  ans float64
```

```
 }{
  {10, 5, 58.893841851237397},
  {3, 1, 0.69314718055994529},
 } {
  ans := MvLgamma(test.v, test.dim)
  if math.Abs(test.ans-ans) > 1e-14 {
   t.Errorf("Case %v. got=%v want=%v.", i, ans, test.ans)
  }
 }
}
// Code generated by gocc; DO NOT EDIT.

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package util

import (
 "fmt"
)

func RuneToString(r rune) string {
 if r >= 0x20 && r < 0x7f {
  return fmt.Sprintf("'%c'", r)
 }
 switch r {
 case 0x07:
  return "'\\a'"
 case 0x08:
  return "'\\b'"
 case 0x0C:
  return "'\\f'"
 case 0x0A:
  return "'\\n'"
 case 0x0D:
  return "'\\r'"
 case 0x09:
  return "'\\t'"
 case 0x0b:
  return "'\\v'"
 case 0x5c:
```

```
  return "\\\\\\"
 case 0x27:
  return "\\'"
 case 0x22:
  return "\\\""
 }
 if r < 0x10000 {
  return fmt.Sprintf("\\u%04x", r)
 }
 return fmt.Sprintf("\\U%08x", r)
}
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// +build !tomita

package topo

const tomitaTanakaTakahashi = false
      SUBROUTINE ZMLT(AR, AI, BR, BI, CR, CI)
C***BEGIN PROLOGUE  ZMLT
C***REFER TO  ZBESH,ZBESI,ZBESJ,ZBESK,ZBESY,ZAIRY,ZBIRY
C
C     DOUBLE PRECISION COMPLEX MULTIPLY, C=A*B.
C
C***ROUTINES CALLED  (NONE)
C***END PROLOGUE  ZMLT
      DOUBLE PRECISION AR, AI, BR, BI, CR, CI, CA, CB
      CA = AR*BR - AI*BI
      CB = AR*BI + AI*BR
      CR = CA
      CI = CB
      RETURN
      END
// SPDX-License-Identifier: Unlicense OR MIT

package headless

import (
 "errors"
 "syscall/js"

 "gioui.org/app/internal/gl"
)

type jsContext struct {
 ctx js.Value
```

```
 f   *gl.Functions
}

func newContext() (*jsContext, error) {
 version := 2
 doc := js.Global().Get("document")
 cnv := doc.Call("createElement", "canvas")
 ctx := cnv.Call("getContext", "webgl2")
 if ctx.IsNull() {
  version = 1
  ctx = cnv.Call("getContext", "webgl")
 }
 if ctx.IsNull() {
  return nil, errors.New("headless: webgl is not supported")
 }
 f := &gl.Functions{Ctx: ctx}
 if err := f.Init(version); err != nil {
  return nil, err
 }
 c := &jsContext{
  ctx: ctx,
  f:   f,
 }
 return c, nil
}

func (c *jsContext) Functions() *gl.Functions {
 return c.f
}

func (c *jsContext) Release() {
}

func (c *jsContext) ReleaseCurrent() {
}

func (c *jsContext) MakeCurrent() error {
 return nil
}
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package gonum

import (
 "gonum.org/v1/gonum/internal/asm/f64"
)
```

```
// Ddot computes the dot product of the two vectors
//  \sum_i x[i]*y[i]
func (Implementation) Ddot(n int, x []float64, incX int, y []float64, incY int) float64 {
 if incX == 0 {
  panic(zeroIncX)
 }
 if incY == 0 {
  panic(zeroIncY)
 }
 if n <= 0 {
  if n == 0 {
   return 0
  }
  panic(nLT0)
 }
 if incX == 1 && incY == 1 {
  if len(x) < n {
   panic(shortX)
  }
  if len(y) < n {
   panic(shortY)
  }
  return f64.DotUnitary(x[:n], y[:n])
 }
 var ix, iy int
 if incX < 0 {
  ix = (-n + 1) * incX
 }
 if incY < 0 {
  iy = (-n + 1) * incY
 }
 if ix >= len(x) || ix+(n-1)*incX >= len(x) {
  panic(shortX)
 }
 if iy >= len(y) || iy+(n-1)*incY >= len(y) {
  panic(shortY)
 }
 return f64.DotInc(x, y, uintptr(n), uintptr(incX), uintptr(incY), uintptr(ix), uintptr(iy))
}
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package testlapack

import (
 "math"
```

```
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/floats"
)

type Dlapy2er interface {
 Dlapy2(float64, float64) float64
}

func Dlapy2Test(t *testing.T, impl Dlapy2er) {
 rnd := rand.New(rand.NewSource(1))
 for i := 0; i < 10; i++ {
  x := math.Abs(1e200 * rnd.NormFloat64())
  y := math.Abs(1e200 * rnd.NormFloat64())
  got := impl.Dlapy2(x, y)
  want := math.Hypot(x, y)
  if !floats.EqualWithinRel(got, want, 1e-16) {
   t.Errorf("Dlapy2(%g, %g) = %g, want %g", x, y, got, want)
  }
 }
}
//** github.com/tendermint/dex-demo@v0.0.2 **//

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<?xml version="1.0" encoding="UTF-8"?>
<gexf xmlns="http://www.gexf.net/1.2draft" version="1.2">
  <graph mode="static" defaultedgetype="directed">
      <nodes>
          <node id="0" label="Hello" />
          <node id="1" label="Word" />
      </nodes>
      <edges>
          <edge id="0" source="0" target="1" />
      </edges>
  </graph>
</gexf>
```

1.3542 gnutls 3.8.3

1.3542.1 Available under license :

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Constant-time SSSE3 AES core implementation.
version 0.1
##
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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the
object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany
the work with the complete corresponding
machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application

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1.3551 python-pip 24.0

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file (certdata.txt). This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see https://opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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Thanks to the many outside volunteers who have worked under Guido's
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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes

2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

Footnotes:

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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Import-Package: com.google.gson;version="[2.8,3)",javax.net,javax.net.
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rg.slf4j,redis.clients.jedis.args,redis.clients.jedis.bloom,redis.cli
ents.jedis.commands,redis.clients.jedis.exceptions,redis.clients.jedi
s.executors,redis.clients.jedis.graph,redis.clients.jedis.json,redis.
clients.jedis.params,redis.clients.jedis.providers,redis.clients.jedi
s.resps,redis.clients.jedis.search,redis.clients.jedis.search.aggr,re
dis.clients.jedis.timeseries,redis.clients.jedis.util";version="4.2.1
",redis.clients.jedis.bloom;uses:="redis.clients.jedis,redis.clients.
jedis.args,redis.clients.jedis.commands,redis.clients.jedis.params";v
 ersion="4.2.1",redis.clients.jedis.executors;uses:="redis.clients.jed
is,redis.clients.jedis.providers";version="4.2.1",redis.clients.jedis
.timeseries;uses:="redis.clients.jedis,redis.clients.jedis.args,redis
.clients.jedis.commands,redis.clients.jedis.params,redis.clients.jedi
s.util";version="4.2.1",redis.clients.jedis.providers;uses:="org.apac
he.commons.pool2,org.apache.commons.pool2.impl,redis.clients.jedis,re
dis.clients.jedis.util";version="4.2.1",redis.clients.jedis.json;uses
:="org.json,redis.clients.jedis,redis.clients.jedis.commands,redis.cl
ients.jedis.params";version="4.2.1",redis.clients.jedis.commands;uses
:="redis.clients.jedis,redis.clients.jedis.args,redis.clients.jedis.b
loom,redis.clients.jedis.exceptions,redis.clients.jedis.graph,redis.c
lients.jedis.json,redis.clients.jedis.params,redis.clients.jedis.resp
s,redis.clients.jedis.search,redis.clients.jedis.timeseries,redis.cli
ents.jedis.util";version="4.2.1",redis.clients.jedis.params;uses:="re
 dis.clients.jedis,redis.clients.jedis.args";version="4.2.1",redis.cli
ents.jedis.exceptions;uses:="redis.clients.jedis";version="4.2.1",red
is.clients.jedis.args;version="4.2.1",redis.clients.jedis.search.aggr
;uses:="redis.clients.jedis.search";version="4.2.1",redis.clients.jed
is.search;uses:="redis.clients.jedis,redis.clients.jedis.args,redis.c
lients.jedis.commands,redis.clients.jedis.params,redis.clients.jedis.
search.aggr";version="4.2.1",redis.clients.jedis.graph;uses:="redis.c
lients.jedis,redis.clients.jedis.args,redis.clients.jedis.commands,re
dis.clients.jedis.params,redis.clients.jedis.providers";version="4.2.
1",redis.clients.jedis.graph.entities;version="4.2.1",redis.clients.j
edis.resps;uses:="redis.clients.jedis,redis.clients.jedis.util";versi
on="4.2.1"
Bundle-Name: Jedis
Bundle-Version: 4.2.1
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_322

Found in path(s):
* /opt/cola/permits/1906390135_1707498991.1635814/0/jedis-4-2-1-jar/META-INF/MANIFEST.MF
```

1.3563 openssl 1.1.1x

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```
/*****************************************************************************
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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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 *
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```
#
```

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   Written by Adam Twiss (adam@zeus.co.uk). March 1996

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*/

For the expat xml parser component:

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This file is generated from xml source: DO NOT EDIT
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href="http://httpd.apache.org/lists.html">mailing lists.
<script type="text/javascript"><!--//--><![CDATA[//><!--
var comments_shortname = 'httpd';
var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';
(function(w, d) {
  if (w.location.hostname.toLowerCase() == "httpd.apache.org") {
    d.write(' <\/div>');
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    s.async = true;
    s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortname + '&page=' +
comments_identifier;
    (d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);

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    }
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      d.write('<div id="comments_thread">Comments are disabled for this page at the moment.<\/div>');
   }
})(window, document);
//--><![]></script></div><div id="footer">
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<p class="menu"><a href="./mod/">Modules</a> | <a href="./mod/directives.html">Directives</a> | <a
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1.3567 browser 0.0.0-20240102092130-5ac0b6a4141c

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1.3568 open-telemetry-opentelemetry-collector-contrib 0.47.0

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1.3569 postgresql-timescaledb-tsl 2.9.2-r0

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```
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\c :TEST_DBNAME :ROLE_SUPERUSER
\set ECHO queries
SHOW timescaledb.license;
timescaledb.license
---------------------
apache
(1 row)

SELECT _timescaledb_internal.tsl_loaded();
tsl_loaded
------------
f
(1 row)

SET timescaledb.license='apache';
ERROR:  invalid value for parameter "timescaledb.license": "apache"
DETAIL:  Cannot change a license in a running session.
HINT:  Change the license in the configuration file or server command line.
SET timescaledb.license='timescale';
ERROR:  invalid value for parameter "timescaledb.license": "timescale"
DETAIL:  Cannot change a license in a running session.
HINT:  Change the license in the configuration file or server command line.
SET timescaledb.license='something_else';
ERROR:  invalid value for parameter "timescaledb.license": "something_else"
DETAIL:  Unrecognized
 license type.
HINT:  Supported license types are 'timescale' or 'apache'.
SELECT locf(1);
ERROR:  function "locf" is not supported under the current "apache" license
HINT:  Upgrade your license to 'timescale' to use this free community feature.
SELECT interpolate(1);
ERROR:  function "interpolate" is not supported under the current "apache" license
HINT:  Upgrade your license to 'timescale' to use this free community feature.
SELECT time_bucket_gapfill(1,1,1,1);
ERROR:  function "time_bucket_gapfill" is not supported under the current "apache" license
HINT:  Upgrade your license to 'timescale' to use this free community feature.
CREATE OR REPLACE FUNCTION custom_func(jobid int, args jsonb) RETURNS VOID AS $$
```

```
DECLARE
BEGIN
END;
$$ LANGUAGE plpgsql;
SELECT add_job('custom_func','1h', config:='{"type":"function"}'::jsonb);
ERROR:  function "add_job" is not supported under the current "apache" license
HINT:  Upgrade your license to 'timescale' to use this free community feature.
DROP
 FUNCTION custom_func;
CREATE TABLE metrics(time timestamptz NOT NULL, value float);
SELECT create_hypertable('metrics', 'time');
 create_hypertable
---------------------
(1,public,metrics,t)
(1 row)

ALTER TABLE metrics SET (timescaledb.compress);
ERROR:  functionality not supported under the current "apache" license
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INSERT INTO metrics
VALUES ('2022-01-01 00:00:00', 1), ('2022-01-01 01:00:00', 2), ('2022-01-01 02:00:00', 3);
CREATE MATERIALIZED VIEW metrics_hourly
WITH (timescaledb.continuous) AS
SELECT time_bucket(INTERVAL '1 hour', time) AS bucket,
  AVG(value),
  MAX(value),
  MIN(value)
FROM metrics
GROUP BY bucket
WITH NO DATA;
ERROR:  functionality not supported under the current "apache" license
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CREATE MATERIALIZED VIEW metrics_hourly
AS
SELECT time_bucket(INTERVAL '1 hour', time) AS bucket,
  AVG(value),
   MAX(value),
  MIN(value)
FROM metrics
GROUP BY bucket;
CALL refresh_continuous_aggregate('metrics_hourly', NULL, NULL);
ERROR:  function "refresh_continuous_aggregate" is not supported under the current "apache" license
HINT:  Upgrade your license to 'timescale' to use this free community feature.
SELECT _timescaledb_internal.invalidation_hyper_log_add_entry(0, 0, 0);
ERROR:  function "invalidation_hyper_log_add_entry" is not supported under the current "apache" license
HINT:  Upgrade your license to 'timescale' to use this free community feature.
SELECT _timescaledb_internal.invalidation_cagg_log_add_entry(0, 0, 0);
ERROR:  function "invalidation_cagg_log_add_entry" is not supported under the current "apache" license
```

HINT: Upgrade your license to 'timescale' to use this free community feature.
DROP MATERIALIZED VIEW metrics_hourly;
DROP TABLE metrics;

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(1 row)

SELECT _timescaledb_internal.tsl_loaded();
tsl_loaded
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t
(1 row)
TimescaleDB (TM)

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Posted Date: September 24, 2020

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1.3571 antonmedv-expr 1.15.4

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1.3572 log4cxx 1.2.0

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1.3576 github.com/containerd/stargz-snapshotter/estargz 0.15.1

1.3576.1 Available under license :

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1.3577 stdlib go1.20.11

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```
Graph{{Graph[]Graph[]}Graph[]{Graph[][]Graph[]}Graph[]{Graph[]Graph[]}Graph[]}
graph{Su{{{Su{{Su}}}Su}Su{{Su}}}}
graph{Nod_}
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package gonum

import (
 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
)

// Dorg2l generates an mn matrix Q with orthonormal columns which is defined
// as the last n columns of a product of k elementary reflectors of order m.
//  Q = H_{k-1} * ... * H_1 * H_0
// See Dgelqf for more information. It must be that m >= n >= k.
//
// tau contains the scalar reflectors computed by Dgeqlf. tau must have length
// at least k, and Dorg2l will panic otherwise.
//
```

```
// work contains temporary memory, and must have length at least n. Dorg2l will
// panic otherwise.
//
// Dorg2l is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dorg2l(m, n, k int, a []float64, lda int, tau, work []float64) {
 switch {
 case m < 0:
  panic(mLT0)
 case n < 0:
  panic(nLT0)
 case n > m:
  panic(nGTM)
 case k
 < 0:
  panic(kLT0)
 case k > n:
  panic(kGTN)
 case lda < max(1, n):
  panic(badLdA)
 }

 if n == 0 {
  return
 }

 switch {
 case len(a) < (m-1)*lda+n:
  panic(shortA)
 case len(tau) < k:
  panic(shortTau)
 case len(work) < n:
  panic(shortWork)
 }

 // Initialize columns 0:n-k to columns of the unit matrix.
 for j := 0; j < n-k; j++ {
  for l := 0; l < m; l++ {
   a[l*lda+j] = 0
  }
  a[(m-n+j)*lda+j] = 1
 }

 bi := blas64.Implementation()
 for i := 0; i < k; i++ {
  ii := n - k + i

  // Apply H_i to A[0:m-k+i, 0:n-k+i] from the left.
  a[(m-n+ii)*lda+ii] = 1
```

```
  impl.Dlarf(blas.Left, m-n+ii+1, ii, a[ii:], lda, tau[i], a, lda, work)
  bi.Dscal(m-n+ii, -tau[i], a[ii:], lda)
  a[(m-n+ii)*lda+ii] = 1 - tau[i]

  // Set A[m-k+i:m, n-k+i+1] to zero.
  for l := m - n + ii + 1; l < m; l++ {
   a[l*lda+ii] = 0
  }
 }
}
graph{{DIG{{DIG}DIG}{DIG}DIG}DIG}
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package testlapack

import (
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
 "gonum.org/v1/gonum/floats"
)

type Dgetrser interface {
 Dgetrfer
 Dgetrs(trans blas.Transpose, n, nrhs int, a []float64, lda int, ipiv []int, b []float64, ldb int)
}

func DgetrsTest(t *testing.T, impl Dgetrser) {
 rnd := rand.New(rand.NewSource(1))
 // TODO(btracey): Put more thought into creating more regularized matrices
 // and what correct tolerances should be. Consider also seeding the random
 // number in this test to make it more robust to code changes in other
 // parts of the suite.
 for _, trans := range []blas.Transpose{blas.NoTrans, blas.Trans} {
  for _, test := range []struct {
   n, nrhs, lda, ldb int
   tol               float64
  }{
   {3, 3, 0, 0, 1e-12},
   {3, 5, 0, 0, 1e-12},
   {5,
 3, 0, 0, 1e-12},
```

```
 {3, 3, 8, 10, 1e-12},
 {3, 5, 8, 10, 1e-12},
 {5, 3, 8, 10, 1e-12},

 {300, 300, 0, 0, 1e-8},
 {300, 500, 0, 0, 1e-8},
 {500, 300, 0, 0, 1e-6},

 {300, 300, 700, 600, 1e-8},
 {300, 500, 700, 600, 1e-8},
 {500, 300, 700, 600, 1e-6},
} {
 n := test.n
 nrhs := test.nrhs
 lda := test.lda
 if lda == 0 {
  lda = n
 }
 ldb := test.ldb
 if ldb == 0 {
  ldb = nrhs
 }
 a := make([]float64, n*lda)
 for i := range a {
  a[i] = rnd.Float64()
 }
 b := make([]float64, n*ldb)
 for i := range b {
  b[i] = rnd.Float64()
 }
 aCopy := make([]float64, len(a))
 copy(aCopy, a)
 bCopy := make([]float64, len(b))
 copy(bCopy, b)

 ipiv := make([]int, n)
 for i := range ipiv {
  ipiv[i] = rnd.Int()
 }

 // Compute the LU factorization.
 impl.Dgetrf(n, n, a, lda, ipiv)
 // Solve the system of equations given the result.
 impl.Dgetrs(trans, n, nrhs, a, lda, ipiv, b, ldb)

 // Check that the system of equations
holds.
 A := blas64.General{
```

```
    Rows:   n,
    Cols:   n,
    Stride: lda,
    Data:   aCopy,
   }
   B := blas64.General{
    Rows:   n,
    Cols:   nrhs,
    Stride: ldb,
    Data:   bCopy,
   }
   X := blas64.General{
    Rows:   n,
    Cols:   nrhs,
    Stride: ldb,
    Data:   b,
   }
   tmp := blas64.General{
    Rows:   n,
    Cols:   nrhs,
    Stride: ldb,
    Data:   make([]float64, n*ldb),
   }
   copy(tmp.Data, bCopy)
   blas64.Gemm(trans, blas.NoTrans, 1, A, X, 0, B)
   if !floats.EqualApprox(tmp.Data, bCopy, test.tol) {
    t.Errorf("Linear solve mismatch. trans = %v, n = %v, nrhs = %v, lda = %v, ldb = %v", trans, n, nrhs, lda, ldb)
   }
  }
 }
}
graph{{s4 s5}}
graph{SUBGRA0{{SUBGRA5{SUBGRA0{{SUBGRA5{SUBGRA0}}}}}}}
graph{{{{E4{E4}E4}E4}E4}E4}
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// Package parser provides generated internal parsing functions for DOT parsing.
package parser // import "gonum.org/v1/gonum/graph/formats/dot/internal/parser"
graph{{NO{{NO{}NO}}NO}}
graph{{GRA}{GRA}GRA}
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package mathext
```

```
import "gonum.org/v1/gonum/mathext/internal/cephes"

// Zeta computes the Riemann zeta function of two arguments.
//  Zeta(x,q) = \sum_{k=0}^{\infty} (k+q)^{-x}
// Note that Zeta returns +Inf if x is 1 and will panic if x is less than 1,
// q is either zero or a negative integer, or q is negative and x is not an
// integer.
//
// See http://mathworld.wolfram.com/HurwitzZetaFunction.html
// or https://en.wikipedia.org/wiki/Multiple_zeta_function#Two_parameters_case
// for more detailed information.
func Zeta(x, q float64) float64 {
 return cephes.Zeta(x, q)
}
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package gonum

import "gonum.org/v1/gonum/lapack"

// Implementation is the native Go implementation of LAPACK routines. It
// is built on top of calls to the return of blas64.Implementation(), so while
// this code is in pure Go, the underlying BLAS implementation may not be.
type Implementation struct{}

var _ lapack.Float64 = Implementation{}

func min(a, b int) int {
 if a < b {
  return a
 }
 return b
}

func max(a, b int) int {
 if a > b {
  return a
 }
 return b
}

func abs(a int) int {
 if a < 0 {
  return -a
 }
 return a
```

```
}

const (
 // dlamchE is the machine epsilon. For IEEE this is 2^{-53}.
 dlamchE = 1.0 / (1 << 53)
 // TODO(kortschak) Replace this with 0x1p-53 when go1.12 is no
 // longer supported.

 // dlamchB is the radix of the machine (the base of the number system).
 dlamchB = 2

 // dlamchP is base * eps.
 dlamchP
 = dlamchB * dlamchE

 // dlamchS is the "safe minimum", that is, the lowest number such that
 // 1/dlamchS does not overflow, or also the smallest normal number.
 // For IEEE this is 2^{-1022}.
 dlamchS = 1.0 / (1 << 256) / (1 << 256) / (1 << 256) / (1 << 254)
 // TODO(kortschak) Replace this with 0x1p-1022 when go1.12 is no
 // longer supported.
)
graph{{SU_}SU_{}SU_{}SU_{SU_}}
---
name: Question
about: Ask at the Gonum discussion list https://groups.google.com/forum/#!forum/gonum-dev

---
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-->

# :no_entry_sign: INVALID :no_entry_sign:
graph{STRU{STRW}{STRW}}
graph{{SubGraG{{SubGraG}{SubGraU}}}}
graph{{{{SUBG0{}SUBG0{SUBG9}}}SUBG0{SUBG9}}SUBG0}
graph{{{DIG}DIG}{DIG}{DIG{DIG}DIG}}
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```

```
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package distmv

import (
 "log"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/mat"
)

func BenchmarkMarginalNormal10(b *testing.B) {
 sz := 10
 rnd := rand.New(rand.NewSource(1))
 normal := randomNormal(sz, rnd)
 normal.CovarianceMatrix(&mat.SymDense{}) // pre-compute sigma
 b.ResetTimer()
 for i := 0; i < b.N; i++ {
  marg, ok := normal.MarginalNormal([]int{1}, nil)
  if !ok {
   b.Error("bad test")
  }
  _ = marg
 }
}

func BenchmarkMarginalNormalReset10(b *testing.B) {
 sz := 10
 rnd := rand.New(rand.NewSource(1))
 normal := randomNormal(sz, rnd)
 b.ResetTimer()
 for i := 0; i < b.N; i++ {
  marg, ok := normal.MarginalNormal([]int{1}, nil)
  if !ok {
   b.Error("bad test")
  }
  _ = marg
 }
}

func BenchmarkMarginalNormalSingle10(b *testing.B) {
 sz := 10
 rnd := rand.New(rand.NewSource(1))
 normal := randomNormal(sz,
 rnd)
 b.ResetTimer()
```

```
 for i := 0; i < b.N; i++ {
  marg := normal.MarginalNormalSingle(1, nil)
  _ = marg
 }
}

func randomNormal(sz int, rnd *rand.Rand) *Normal {
 mu := make([]float64, sz)
 for i := range mu {
  mu[i] = rnd.Float64()
 }
 data := make([]float64, sz*sz)
 for i := range data {
  data[i] = rnd.Float64()
 }
 dM := mat.NewDense(sz, sz, data)
 var sigma mat.SymDense
 sigma.SymOuterK(1, dM)

 normal, ok := NewNormal(mu, &sigma, nil)
 if !ok {
  log.Fatal("bad test, not pos def")
 }
 return normal
}
```

graph{Su}

//** Reference to CC-0. Source: numerous modules. **//

{{Types "CC0-1.0"}}

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   ))
))
graph{{SubGrap_}}
graph{{{{stricc}{stricm}}stricc}{stricm}}
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package samplemv

import (
 "math"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/mat"
 "gonum.org/v1/gonum/stat/distmv"
)

func TestHalton(t *testing.T) {
 for cas, test := range []struct {
  n int
  d int
 }{
  {10, 1},
  {100, 2},
  {1000, 3},
 } {
  src := rand.New(rand.NewSource(1))
  // Generate the samples.
  batch := mat.NewDense(test.n, test.d, nil)
  Halton{Kind: Owen, Q: distmv.NewUnitUniform(test.d, nil), Src: src}.Sample(batch)

  // In each dimension, the samples should be stratefied according to the
  // prime for that dimension. There should be at most 1 sample per
  // 1/b^k block, where k is log(n)/log(b).
```

```
  for d := 0; d < test.d; d++ {
   b := float64(nthPrime(d))
   fk := math.Log(float64(test.n)) / math.Log(b)
   k := math.Ceil(fk)
   den := math.Pow(b, k)
   m := make(map[int]int)
   for i :=
 0; i < test.n; i++ {
    bucket := int(batch.At(i, d) * den)
    m[bucket]++
   }
   for bucket, n := range m {
    if n > 1 {
     t.Errorf("case %d: bucket %v has %v samples", cas, bucket, n)
    }
   }
  }
 }
}
graph{{NO_}{NO_}{NO_}{NO_}NO_}
<!--
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-->

{{define "main"}}
 <style>
  .LicenseTypes-list {
    line-height: 1.25rem;
    list-style: initial;
    padding-left: 2.25rem;
  }
 </style>
 <main class="go-Container" id="main-content">
  <div class="go-Content">
    <h1 data-test-id="license-policy-heading">License Disclaimer</h1>
    <p>
      The Go website displays license information in order to help users evaluate
      packages for their intended use. Licenses are detected using heuristics
      based on their file name and contents. We hope this information is helpful,
      but this is not legal advice and we do not make any guarantees regarding
      the accuracy of our license detection.
    </p>
    <p>
      If we are not able to detect one of the licenses below, only
      limited package and module information will be made
```

```
 available. If you are
      a package author seeking to make your content available on the Go
      website, please be aware that our detection algorithms can be affected by
      any modifications of the license text, or by the use of an uncommon
      license file name.
    </p>
    <p>
      We currently use
      <a href="https://pkg.go.dev/github.com/google/licensecheck">github.com/google/licensecheck</a>
      for license detection, and look for licenses in files with the following names:
      {{commaseparate .LicenseFileNames}}. The match is case-insensitive.
    </p>
    <p>
      We currently detect and recognize the following licenses:
      <ul class="LicenseTypes-list">
        {{range .LicenseTypes -}}
          <li>
            {{if .URL -}}
              <a href="{{.URL}}" target="_blank" rel="noopener">{{.Name}}</a>
            {{else}}
              {{.Name}}
            {{- end}}
          </li>
        {{- end}}

    </ul>
    </p>
    <p>
      If you are using an <a href="https://opensource.org/licenses/">OSI approved license</a>
      but it is not in our recognized license list,
      please <a href="https://golang.org/s/pkgsite-feedback">file an issue</a>.
      Currently we cannot add non-OSI approved licenses to the list.
    </p>
    <p>
      If you use a package whose license is not detected, please inform the package author.
      If you are a package author who believes a license for one of your packages
      should have been detected and was not, please check for discrepancies between your license
      and the official text. If you still believe there is an error, please
      <a href="https://golang.org/s/pkgsite-feedback">file an issue</a>.
    </p>
  </div>
 </main>
{{end}}
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package gonum
```

```
import (
 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
)

// Dgetrs solves a system of equations using an LU factorization.
// The system of equations solved is
//  A * X = B  if trans == blas.Trans
//  A * X = B if trans == blas.NoTrans
// A is a general nn matrix with stride lda. B is a general matrix of size nnrhs.
//
// On entry b contains the elements of the matrix B. On exit, b contains the
// elements of X, the solution to the system of equations.
//
// a and ipiv contain the LU factorization of A and the permutation indices as
// computed by Dgetrf. ipiv is zero-indexed.
func (impl Implementation) Dgetrs(trans blas.Transpose, n, nrhs int, a []float64, lda int, ipiv []int, b []float64, ldb
int) {
 switch {
 case trans != blas.NoTrans && trans != blas.Trans && trans != blas.ConjTrans:
  panic(badTrans)
 case
 n < 0:
  panic(nLT0)
 case nrhs < 0:
  panic(nrhsLT0)
 case lda < max(1, n):
  panic(badLdA)
 case ldb < max(1, nrhs):
  panic(badLdB)
 }

 // Quick return if possible.
 if n == 0 || nrhs == 0 {
  return
 }

 switch {
 case len(a) < (n-1)*lda+n:
  panic(shortA)
 case len(b) < (n-1)*ldb+nrhs:
  panic(shortB)
 case len(ipiv) != n:
  panic(badLenIpiv)
 }

 bi := blas64.Implementation()
```

```
 if trans == blas.NoTrans {
  // Solve A * X = B.
  impl.Dlaswp(nrhs, b, ldb, 0, n-1, ipiv, 1)
  // Solve L * X = B, updating b.
  bi.Dtrsm(blas.Left, blas.Lower, blas.NoTrans, blas.Unit,
   n, nrhs, 1, a, lda, b, ldb)
  // Solve U * X = B, updating b.
  bi.Dtrsm(blas.Left, blas.Upper, blas.NoTrans, blas.NonUnit,
   n, nrhs, 1, a, lda, b, ldb)
  return
 }
 // Solve A * X = B.
 // Solve U * X = B, updating b.
 bi.Dtrsm(blas.Left, blas.Upper, blas.Trans, blas.NonUnit,
  n, nrhs, 1, a, lda, b, ldb)
 // Solve L * X = B, updating b.
 bi.Dtrsm(blas.Left, blas.Lower, blas.Trans, blas.Unit,
  n,
 nrhs, 1, a, lda, b, ldb)
 impl.Dlaswp(nrhs, b, ldb, 0, n-1, ipiv, -1)
}
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package c128

// ScalUnitaryTo is
//  for i, v := range x {
//   dst[i] = alpha * v
//  }
func ScalUnitaryTo(dst []complex128, alpha complex128, x []complex128) {
 for i, v := range x {
  dst[i] = alpha * v
 }
}

// ScalIncTo is
//  var idst, ix uintptr
//  for i := 0; i < int(n); i++ {
//   dst[idst] = alpha * x[ix]
//   ix += incX
//   idst += incDst
//  }
func ScalIncTo(dst []complex128, incDst uintptr, alpha complex128, x []complex128, n, incX uintptr) {
 var idst, ix uintptr
 for i := 0; i < int(n); i++ {
```

```
  dst[idst] = alpha * x[ix]
  ix += incX
  idst += incDst
 }
}
graph{diGrapS{{diGrapC}diGrapS}}
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package vptree_test

import (
 "fmt"
 "log"

 "gonum.org/v1/gonum/spatial/vptree"
)

func ExampleTree() {
 // Example data from https://en.wikipedia.org/wiki/K-d_tree
 points := []vptree.Comparable{
  vptree.Point{2, 3},
  vptree.Point{5, 4},
  vptree.Point{9, 6},
  vptree.Point{4, 7},
  vptree.Point{8, 1},
  vptree.Point{7, 2},
 }

 t, err := vptree.New(points, 3, nil)
 if err != nil {
  log.Fatal(err)
 }
 q := vptree.Point{8, 7}
 p, d := t.Nearest(q)
 fmt.Printf("%v is closest point to %v, d=%f\n", p, q, d)
 // Output:
 // [9 6] is closest point to [8 7], d=1.414214
}

func ExampleTree_Do() {
 // Example data from https://en.wikipedia.org/wiki/K-d_tree
 points := []vptree.Comparable{
  vptree.Point{2, 3},
  vptree.Point{5, 4},
  vptree.Point{9, 6},
  vptree.Point{4, 7},
```

```
 vptree.Point{8, 1},
 vptree.Point{7, 2},
}

// Print
all points in the data set within 3 of (3, 5).
t, err := vptree.New(points, 0, nil)
if err != nil {
 log.Fatal(err)
}
q := vptree.Point{3, 5}
t.Do(func(c vptree.Comparable, _ int) (done bool) {
 // Compare each distance and output points
 // with a Euclidean distance less than or
 // equal to 3. Distance returns the
 // Euclidean distance between points.
 if q.Distance(c) <= 3 {
  fmt.Println(c)
 }
 return
})
// Unordered output:
// [2 3]
// [4 7]
// [5 4]
}
graph{{strictg}}
graph{{SUq}SUf{}SUq}
graph{{{{Digraa}Digraa}}}
      SUBROUTINE ZBUNK(ZR, ZI, FNU, KODE, MR, N, YR, YI, NZ, TOL, ELIM,
     * ALIM)
C***BEGIN PROLOGUE  ZBUNK
C***REFER TO  ZBESK,ZBESH
C
C     ZBUNK COMPUTES THE K BESSEL FUNCTION FOR FNU.GT.FNUL.
C     ACCORDING TO THE UNIFORM ASYMPTOTIC EXPANSION FOR K(FNU,Z)
C     IN ZUNK1 AND THE EXPANSION FOR H(2,FNU,Z) IN ZUNK2
C
C***ROUTINES CALLED  ZUNK1,ZUNK2
C***END PROLOGUE  ZBUNK
C     COMPLEX Y,Z
      DOUBLE PRECISION ALIM, AX, AY, ELIM, FNU, TOL, YI, YR, ZI, ZR
      INTEGER KODE, MR, N, NZ
      DIMENSION YR(N), YI(N)
      NZ = 0
      AX = DABS(ZR)*1.7321D0
      AY = DABS(ZI)
      IF (AY.GT.AX) GO TO 10
```

```
C-----------------------------------------------------------------------
C     ASYMPTOTIC EXPANSION FOR K(FNU,Z) FOR LARGE FNU APPLIED IN
C     -PI/3.LE.ARG(Z).LE.PI/3
C-----------------------------------------------------------------------
      CALL ZUNK1(ZR, ZI, FNU, KODE, MR, N, YR, YI, NZ, TOL, ELIM, ALIM)
      GO TO 20
   10 CONTINUE
C-----------------------------------------------------------------------
C
      ASYMPTOTIC EXPANSION FOR H(2,FNU,Z*EXP(M*HPI)) FOR LARGE FNU
C     APPLIED IN PI/3.LT.ABS(ARG(Z)).LE.PI/2 WHERE M=+I OR -I
C     AND HPI=PI/2
C-----------------------------------------------------------------------
      CALL ZUNK2(ZR, ZI, FNU, KODE, MR, N, YR, YI, NZ, TOL, ELIM, ALIM)
   20 CONTINUE
      RETURN
      END
graph{diG{diG{diG}{diG{diG}diG}}}
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package testlapack

import (
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
 "gonum.org/v1/gonum/floats"
)

type Dgeql2er interface {
 Dgeql2(m, n int, a []float64, lda int, tau, work []float64)
}

func Dgeql2Test(t *testing.T, impl Dgeql2er) {
 rnd := rand.New(rand.NewSource(1))
 // TODO(btracey): Add tests for m < n.
 for _, test := range []struct {
  m, n, lda int
 }{
  {5, 5, 0},
  {5, 3, 0},
  {5, 4, 0},
 } {
```

```
m := test.m
n := test.n
lda := test.lda
if lda == 0 {
 lda = n
}
a := make([]float64, m*lda)
for i := range a {
 a[i] = rnd.NormFloat64()
}
tau := nanSlice(min(m, n))
work := nanSlice(n)

aCopy := make([]float64, len(a))
copy(aCopy, a)
impl.Dgeql2(m, n, a, lda, tau, work)

k := min(m, n)
// Construct Q.
q := blas64.General{
 Rows:
 m,
 Cols:   m,
 Stride: m,
 Data:   make([]float64, m*m),
}
for i := 0; i < m; i++ {
 q.Data[i*q.Stride+i] = 1
}
for i := 0; i < k; i++ {
 h := blas64.General{Rows: m, Cols: m, Stride: m, Data: make([]float64, m*m)}
 for j := 0; j < m; j++ {
  h.Data[j*h.Stride+j] = 1
 }
 v := blas64.Vector{Inc: 1, Data: make([]float64, m)}
 v.Data[m-k+i] = 1
 for j := 0; j < m-k+i; j++ {
  v.Data[j] = a[j*lda+n-k+i]
 }
 blas64.Ger(-tau[i], v, v, h)
 qTmp := blas64.General{Rows: q.Rows, Cols: q.Cols, Stride: q.Stride, Data: make([]float64, len(q.Data))}
 copy(qTmp.Data, q.Data)
 blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, h, qTmp, 0, q)
}
if !isOrthogonal(q) {
 t.Errorf("Q is not orthogonal")
}
l := blas64.General{
```

```
  Rows:   m,
  Cols:   n,
  Stride: n,
  Data:   make([]float64, m*n),
 }
 if m >= n {
  for i := m - n; i < m; i++ {
   for j := 0; j <= min(i-(m-n), n-1); j++ {
    l.Data[i*l.Stride+j] = a[i*lda+j]
   }
  }
 } else {
  panic("untested")
 }
 ans
:= blas64.General{Rows: m, Cols: n, Stride: lda, Data: make([]float64, len(a))}
 copy(ans.Data, a)

 blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, q, l, 0, ans)
 if !floats.EqualApprox(ans.Data, aCopy, 1e-10) {
  t.Errorf("Reconstruction mismatch: m = %v, n = %v", m, n)
 }
}
}
graph{{{subgh}}}
digraph{B:e->G:e->G:e->B:e->B:e->G:e->G:e->B:e->B:e->G:e}
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// +build tomita

package topo

const tomitaTanakaTakahashi = true
graph s2{{s4 s5}}
digraph{A:ne->B:sw C->D:r:se E:_->F G:n H:e I:s J:w K:nw L:c}
graph{{SUBGRAPR}}
graph{{Sub}Sub{Sub}SU_}
#
graph{#
{#
}}
// Code generated by "go generate gonum.org/v1/gonum/blas; DO NOT EDIT.

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```

```
package cblas64

import "gonum.org/v1/gonum/blas"

// HermitianCols represents a matrix using the conventional column-major storage scheme.
type HermitianCols Hermitian

// From fills the receiver with elements from a. The receiver
// must have the same dimensions and uplo as a and have adequate
// backing data storage.
func (t HermitianCols) From(a Hermitian) {
 if t.N != a.N {
  panic("cblas64: mismatched dimension")
 }
 if t.Uplo != a.Uplo {
  panic("cblas64: mismatched BLAS uplo")
 }
 switch a.Uplo {
 default:
  panic("cblas64: bad BLAS uplo")
 case blas.Upper:
  for i := 0; i < a.N; i++ {
   for j := i; j < a.N; j++ {
    t.Data[i+j*t.Stride] = a.Data[i*a.Stride+j]
   }
  }
 case blas.Lower:
  for i := 0; i < a.N; i++ {
   for j := 0; j <= i; j++ {
    t.Data[i+j*t.Stride]
 = a.Data[i*a.Stride+j]
   }
  }
 }
}

// From fills the receiver with elements from a. The receiver
// must have the same dimensions and uplo as a and have adequate
// backing data storage.
func (t Hermitian) From(a HermitianCols) {
 if t.N != a.N {
  panic("cblas64: mismatched dimension")
 }
 if t.Uplo != a.Uplo {
  panic("cblas64: mismatched BLAS uplo")
 }
 switch a.Uplo {
```

```
 default:
  panic("cblas64: bad BLAS uplo")
 case blas.Upper:
  for i := 0; i < a.N; i++ {
   for j := i; j < a.N; j++ {
    t.Data[i*t.Stride+j] = a.Data[i+j*a.Stride]
   }
  }
 case blas.Lower:
  for i := 0; i < a.N; i++ {
   for j := 0; j <= i; j++ {
    t.Data[i*t.Stride+j] = a.Data[i+j*a.Stride]
   }
  }
 }
}

// HermitianBandCols represents an Hermitian matrix using the band column-major storage scheme.
type HermitianBandCols HermitianBand

// From fills the receiver with elements from a. The receiver
// must have the same dimensions, bandwidth and uplo as a and
// have adequate backing
 data storage.
func (t HermitianBandCols) From(a HermitianBand) {
 if t.N != a.N {
  panic("cblas64: mismatched dimension")
 }
 if t.K != a.K {
  panic("cblas64: mismatched bandwidth")
 }
 if a.Stride < a.K+1 {
  panic("cblas64: short stride for source")
 }
 if t.Stride < t.K+1 {
  panic("cblas64: short stride for destination")
 }
 if t.Uplo != a.Uplo {
  panic("cblas64: mismatched BLAS uplo")
 }
 dst := BandCols{
  Rows: t.N, Cols: t.N,
  Stride: t.Stride,
  Data:   t.Data,
 }
 src := Band{
  Rows: a.N, Cols: a.N,
  Stride: a.Stride,
```

```
 Data:   a.Data,
 }
 switch a.Uplo {
 default:
  panic("cblas64: bad BLAS uplo")
 case blas.Upper:
  dst.KU = t.K
  src.KU = a.K
 case blas.Lower:
  dst.KL = t.K
  src.KL = a.K
 }
 dst.From(src)
}

// From fills the receiver with elements from a. The receiver
// must have the same dimensions, bandwidth and uplo as a and
// have adequate backing data storage.
func (t HermitianBand) From(a HermitianBandCols) {
 if t.N != a.N {
  panic("cblas64: mismatched
 dimension")
 }
 if t.K != a.K {
  panic("cblas64: mismatched bandwidth")
 }
 if a.Stride < a.K+1 {
  panic("cblas64: short stride for source")
 }
 if t.Stride < t.K+1 {
  panic("cblas64: short stride for destination")
 }
 if t.Uplo != a.Uplo {
  panic("cblas64: mismatched BLAS uplo")
 }
 dst := Band{
  Rows: t.N, Cols: t.N,
  Stride: t.Stride,
  Data:   t.Data,
 }
 src := BandCols{
  Rows: a.N, Cols: a.N,
  Stride: a.Stride,
  Data:   a.Data,
 }
 switch a.Uplo {
 default:
  panic("cblas64: bad BLAS uplo")
```

```
 case blas.Upper:
  dst.KU = t.K
  src.KU = a.K
 case blas.Lower:
  dst.KL = t.K
  src.KL = a.K
 }
 dst.From(src)
}
graph{{D55{{D55}}}}
digraph{n_}
graph{NOA{NOA{NOA{{NOA{NOA{NOA}}NOA}}}NOA}}
graph{{{{EB}}EB{EB}}}
graph{{{{{n{n}}n{{{{{n}}n}}}}}}n}
graph{{ST_{{{{ST_}}ST_}}}ST_}
graph{{SUU}}
graph{{ST6}{ST6{ST6{ST6}ST6}ST6}}
graph{{{{{{e}e}}e}e}}
graph{{d{{d{{d}}d}}d}}
graph{Stric{Strica-9Strica-9Strica-9Strica-9Strica-9Strica-9Strica-9Stric}}
digraph{Edgee}
graph{9[f=DiGra_]}
graph{{Dib{Dib}Dia}Dia}
```

This set of codes generates tests for the dlasq* routines.

The high level routines are testdlasq*.f90. The testdlasq*.f90 routines are intended in combination with the routines in gonum/lapack/testlapack.
During execution, these high-level routines record the inputs and outputs to the executed subroutines. For example, testdlasq3, when executed, generates files gen4tests.txt and gen5tests.txt that record the inputs and outputs to the evaluation of dlasq4 and dlasq5 respectively. The output format in gen*tests.txt is the struct literal that matches the respective test in gonum/lapack/testlapack/dlasq*.go. Thus, these generated tests can be copied into the testing routine to test the native implementation.

The testing routines in testlapack have code for generating inputs for these fortran routines. Typically, one would isolate the particular failing test, and modify the testlapack routine to print it to the terminal, for example in testlapack/dlasq3.go one might add

```
  printDlasq3FortranInput(test)
   os.Exit(1)
```

This prints variable initialization for dlasq3 routine to the terminal, which can be copied and pasted into testdlasq3.f90. Please note that this process is not completely automated. Some of the other initialization may need to change, particularly the size allocation of the data array(s).

Graph{{DIGR}DIGR{{DIGR}DIGR}DIGR{{DIGR}DIGR{DIGR}{DIGR}}}
graph{{{{EDGEG}EDGEG}}}

```
package layout_test

import (
 "fmt"
 "image"

 "gioui.org/layout"
 "gioui.org/unit"
)

func ExampleInset() {
 gtx := new(layout.Context)
 gtx.Reset(nil, image.Point{X: 100, Y: 100})
 // Loose constraints with no minimal size.
 gtx.Constraints.Width.Min = 0
 gtx.Constraints.Height.Min = 0

 // Inset all edges by 10.
 inset := layout.UniformInset(unit.Dp(10))
 inset.Layout(gtx, func() {
  // Lay out a 50x50 sized widget.
  layoutWidget(gtx, 50, 50)
  fmt.Println(gtx.Dimensions.Size)
 })

 fmt.Println(gtx.Dimensions.Size)

 // Output:
 // (50,50)
 // (70,70)
}

func ExampleAlign() {
 gtx := new(layout.Context)
 // Rigid constraints with both minimum and maximum set.
 gtx.Reset(nil, image.Point{X: 100, Y: 100})

 align := layout.Align(layout.Center)
 align.Layout(gtx, func() {
  // Lay out a 50x50 sized widget.
  layoutWidget(gtx, 50, 50)
  fmt.Println(gtx.Dimensions.Size)
 })

 fmt.Println(gtx.Dimensions.Size)
```

```
 // Output:
 // (50,50)
 // (100,100)
}

func ExampleFlex() {
 gtx := new(layout.Context)
 gtx.Reset(nil,
 image.Point{X: 100, Y: 100})

 layout.Flex{}.Layout(gtx,
  // Rigid 10x10 widget.
  layout.Rigid(func() {
   fmt.Printf("Rigid: %v\n", gtx.Constraints.Width)
   layoutWidget(gtx, 10, 10)
  }),
  // Child with 50% space allowance.
  layout.Flexed(0.5, func() {
   fmt.Printf("50%%: %v\n", gtx.Constraints.Width)
   layoutWidget(gtx, 10, 10)
  }),
 )

 // Output:
 // Rigid: {0 100}
 // 50%: {45 45}
}

func ExampleStack() {
 gtx := new(layout.Context)
 gtx.Reset(nil, image.Point{X: 100, Y: 100})
 gtx.Constraints.Width.Min = 0
 gtx.Constraints.Height.Min = 0

 layout.Stack{}.Layout(gtx,
  // Force widget to the same size as the second.
  layout.Expanded(func() {
   fmt.Printf("Expand: %v\n", gtx.Constraints)
   layoutWidget(gtx, 10, 10)
  }),
  // Rigid 50x50 widget.
  layout.Stacked(func() {
   layoutWidget(gtx, 50, 50)
  }),
 )

 // Output:
 // Expand: {{50 100} {50 100}}
```

```
}

func ExampleList() {
 gtx := new(layout.Context)
 gtx.Reset(nil, image.Point{X: 100, Y:
 100})

 // The list is 1e6 elements, but only 5 fit the constraints.
 const listLen = 1e6

 var list layout.List
 count := 0
 list.Layout(gtx, listLen, func(i int) {
  count++
  layoutWidget(gtx, 20, 20)
 })

 fmt.Println(count)

 // Output:
 // 5
}

func layoutWidget(ctx *layout.Context, width, height int) {
 ctx.Dimensions = layout.Dimensions{
  Size: image.Point{
   X: width,
   Y: height,
  },
 }
}
graph{D5{{D5}}D5{{D7{D5}}D5}}
graph{{{{{{DiGrapg}DiGrapg}DiGrapb}}DiGrapg}DiGrapb}
graph{<=========>}
Graph{{{EDGG}{EDGG}}}
Graph{Subgrg{{{Subgrg}}}}
graph{{{gra{{gra}}}}}
digraph{5[h=graph5]}
graph{GRAPU{{GRAPU{GRAPU}GRAPU{GRAPU}}}}
graph{{StrO{{StrO}StrK}}StrK}
digraph{h[l="=d]}"][l="StmtList : StmtList Stmt OptSemi << astx.AppendStmt(X[0], X[1]) >> iri"][l=""][l="
iri"][l="3469446951953614188823848962783813476562 5"][l=""]e->{}->s->a->s->r[e=d]}
graph{GRAPp{GRAPe}}
graph{{{Digrapn}{Digrapt}{Digrapn}{Digrapt}{Digrapt}}}
graph{su_{su_{su_}su_}su_{su_}}
graph{{DY{DN}DY}DY{DN}{DY{DN}{DY{DN}DY}DY{DN}{DY{DN}DY}DY{DN}{DY{DN}DY{DN}D
Y}DY}DY{DN}{DY{DN}DY{DN}DY}DY{DN}DY}
```

graph{U{xbzwJ4_By_2YUsiQ0p2wJVKq9_9vW_0_YXH3_9tuvOtt3AdM6_esq_5_0wvni{W}o1hm4a_6_3edae{s
4TupuTsd_3_4VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""}}
Graph{STRIC{STRIC{STRIC{{STRIC}STRIC{STRIC{STRIC}STRIC}}}STRIC}}
graph{{SUBh{SUBo}{SUBo}SUBo}{SUBo}{SUBo}}
graph{{{subgJ{{{{subgJ{}subgO}}}subgO}}}subgJ{}subgO}}
graph{{SUBGRAPH{}}}
graph{{DIR}DIR{DIR{DIR}DIR{DIR}{DIR}DIR}{DIR}DIR}
Graph{{subgr4}{subgr4}}
Graph{{Subg}}
language: go
go:
 - "1.12.x"
env:
 - env GO111MODULE=on
os:
 - linux
 - osx
 - windows
script:
 - go test -v ./...
Graph{{DIGRp}DIGRl{DIGRp}{DIGRp}}
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package gonum

// Dcombssq adds two scaled sum-of-squares quantities, V := V1 + V2,
// V_scale^2 * V_ssq := V1_scale^2 * V1_ssq + V2_scale^2 * V2_ssq
// and returns the result V.
//
// Dcombssq is an internal routine. It is exported for testing purposes.
func (Implementation) Dcombssq(scale1, ssq1, scale2, ssq2 float64) (scale, ssq float64) {
 if scale1 >= scale2 {
  if scale1 != 0 {
   return scale1, ssq1 + (scale2/scale1)*(scale2/scale1)*ssq2
  }
  // If the input is non-negative and we are here, then scale2 must inevitably be 0, too.
  return 0, 0
 }
 return scale2, ssq2 + (scale1/scale2)*(scale1/scale2)*ssq1
}
graph{{stric}stric}
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// license that can be found in the LICENSE file.

package testlapack

```
import (
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/floats"
)

type Dormlqer interface {
 Dorml2er
 Dormlq(side blas.Side, trans blas.Transpose, m, n, k int, a []float64, lda int, tau, c []float64, ldc int, work []float64,
lwork int)
}

func DormlqTest(t *testing.T, impl Dormlqer) {
 rnd := rand.New(rand.NewSource(1))
 for _, side := range []blas.Side{blas.Left, blas.Right} {
  for _, trans := range []blas.Transpose{blas.NoTrans, blas.Trans} {
   for _, wl := range []worklen{minimumWork, mediumWork, optimumWork} {
    for _, test := range []struct {
     common, adim, cdim, lda, ldc int
    }{
     {0, 0, 0, 0, 0},
     {6, 7, 8, 0, 0},
     {6, 8, 7, 0, 0},
     {7, 6, 8, 0, 0},
     {7, 8, 6, 0, 0},
     {8, 6, 7, 0, 0},
     {8, 7, 6, 0, 0},
     {100, 200, 300,
 0, 0},
     {100, 300, 200, 0, 0},
     {200, 100, 300, 0, 0},
     {200, 300, 100, 0, 0},
     {300, 100, 200, 0, 0},
     {300, 200, 100, 0, 0},
     {100, 200, 300, 400, 500},
     {100, 300, 200, 400, 500},
     {200, 100, 300, 400, 500},
     {200, 300, 100, 400, 500},
     {300, 100, 200, 400, 500},
     {300, 200, 100, 400, 500},
     {100, 200, 300, 500, 400},
     {100, 300, 200, 500, 400},
     {200, 100, 300, 500, 400},
     {200, 300, 100, 500, 400},
```

```
    {300, 100, 200, 500, 400},
    {300, 200, 100, 500, 400},
   } {
    var ma, na, mc, nc int
    if side == blas.Left {
     ma = test.adim
     na = test.common
     mc = test.common
     nc = test.cdim
    } else {
     ma = test.adim
     na = test.common
     mc = test.cdim
     nc = test.common
    }
    // Generate a random matrix
    lda := test.lda
    if lda == 0 {
     lda = max(1, na)
    }
    a := make([]float64, ma*lda)
    for i := range a {
     a[i] = rnd.Float64()
    }
    // Compute
random C matrix
    ldc := test.ldc
    if ldc == 0 {
     ldc = nc
    }
    c := make([]float64, mc*ldc)
    for i := range c {
     c[i] = rnd.Float64()
    }

    // Compute LQ
    k := min(ma, na)
    tau := make([]float64, k)
    work := make([]float64, 1)
    impl.Dgelqf(ma, na, a, lda, tau, work, -1)
    work = make([]float64, int(work[0]))
    impl.Dgelqf(ma, na, a, lda, tau, work, len(work))

    cCopy := make([]float64, len(c))
    copy(cCopy, c)
    ans := make([]float64, len(c))
    copy(ans, cCopy)
```

```
    var nw int
    if side == blas.Left {
     nw = nc
    } else {
     nw = mc
    }
    work = make([]float64, max(1, nw))
    impl.Dorml2(side, trans, mc, nc, k, a, lda, tau, ans, ldc, work)

    var lwork int
    switch wl {
    case minimumWork:
     lwork = nw
    case optimumWork:
     impl.Dormlq(side, trans, mc, nc, k, a, lda, tau, c, ldc, work, -1)
     lwork = int(work[0])
    case mediumWork:
     work := make([]float64, 1)
     impl.Dormlq(side,
 trans, mc, nc, k, a, lda, tau, c, ldc, work, -1)
     lwork = (int(work[0]) + nw) / 2
    }
    lwork = max(1, lwork)
    work = make([]float64, lwork)

    impl.Dormlq(side, trans, mc, nc, k, a, lda, tau, c, ldc, work, lwork)
    if !floats.EqualApprox(c, ans, 1e-13) {
     t.Errorf("Dormqr and Dorm2r results mismatch")
    }
   }
  }
 }
}
graph{{su_}}
graph{{{{{{{{{{str9}}str1}}}}}}}}
graph{{g3{}g2{g3{}g2}}}
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// license that can be found in the LICENSE file.

package gonum

import (
 "math"

 "gonum.org/v1/gonum/lapack"
)
```

```
// Dlanst computes the specified norm of a symmetric tridiagonal matrix A.
// The diagonal elements of A are stored in d and the off-diagonal elements
// are stored in e.
func (impl Implementation) Dlanst(norm lapack.MatrixNorm, n int, d, e []float64) float64 {
 switch {
 case norm != lapack.MaxRowSum && norm != lapack.MaxColumnSum && norm != lapack.Frobenius && norm
!= lapack.MaxAbs:
  panic(badNorm)
 case n < 0:
  panic(nLT0)
 }
 if n == 0 {
  return 0
 }
 switch {
 case len(d) < n:
  panic(shortD)
 case len(e) < n-1:
  panic(shortE)
 }

 switch norm {
 default:
  panic(badNorm)
 case lapack.MaxAbs:
  anorm := math.Abs(d[n-1])
  for i := 0; i < n-1; i++ {
   sum := math.Abs(d[i])
   if anorm < sum || math.IsNaN(sum) {
    anorm = sum
   }
   sum = math.Abs(e[i])
   if
 anorm < sum || math.IsNaN(sum) {
    anorm = sum
   }
  }
  return anorm
 case lapack.MaxColumnSum, lapack.MaxRowSum:
  if n == 1 {
   return math.Abs(d[0])
  }
  anorm := math.Abs(d[0]) + math.Abs(e[0])
  sum := math.Abs(e[n-2]) + math.Abs(d[n-1])
  if anorm < sum || math.IsNaN(sum) {
   anorm = sum
  }
```

```
  for i := 1; i < n-1; i++ {
   sum := math.Abs(d[i]) + math.Abs(e[i]) + math.Abs(e[i-1])
   if anorm < sum || math.IsNaN(sum) {
    anorm = sum
   }
  }
  return anorm
 case lapack.Frobenius:
  var scale float64
  sum := 1.0
  if n > 1 {
   scale, sum = impl.Dlassq(n-1, e, 1, scale, sum)
   sum = 2 * sum
  }
  scale, sum = impl.Dlassq(n, d, 1, scale, sum)
  return scale * math.Sqrt(sum)
 }
}
graph{{{{{{{edge5}}}edge5}}edge5{edge5}}}}
graph{graph[]Graph[]{graph[]Graph[]graph[]}Graph[]}
graph{{Su_{Su_}}}
*DECK I1MACH
      INTEGER FUNCTION I1MACH(I)
C***BEGIN PROLOGUE  I1MACH
C***DATE WRITTEN   750101   (YYMMDD)
C***REVISION DATE  890213   (YYMMDD)
C***CATEGORY NO.  R1
C***KEYWORDS  LIBRARY=SLATEC,TYPE=INTEGER(I1MACH-I),MACHINE CONSTANTS
C***AUTHOR  FOX, P. A., (BELL LABS)
C           HALL, A. D., (BELL LABS)
C           SCHRYER, N. L., (BELL LABS)
C***PURPOSE  Returns integer machine dependent constants
C***DESCRIPTION
C
C     I1MACH can be used to obtain machine-dependent parameters
C     for the local machine environment.  It is a function
C     subroutine with one (input) argument, and can be called
C     as follows, for example
C
C          K = I1MACH(I)
C
C     where I=1,...,16.  The (output) value of K above is
C     determined by the (input) value of I.  The results for
C     various values of I are discussed below.
C
C  I/O unit numbers.
C    I1MACH( 1) = the standard input unit.
C    I1MACH( 2) = the standard output unit.
```

```
C    I1MACH( 3) = the standard punch unit.
C    I1MACH(
 4) = the standard error message unit.
C
C  Words.
C    I1MACH( 5) = the number of bits per integer storage unit.
C    I1MACH( 6) = the number of characters per integer storage unit.
C
C  Integers.
C    assume integers are represented in the S-digit, base-A form
C
C              sign ( X(S-1)*A**(S-1) + ... + X(1)*A + X(0) )
C
C              where 0 .LE. X(I) .LT. A for I=0,...,S-1.
C    I1MACH( 7) = A, the base.
C    I1MACH( 8) = S, the number of base-A digits.
C    I1MACH( 9) = A**S - 1, the largest magnitude.
C
C  Floating-Point Numbers.
C    Assume floating-point numbers are represented in the T-digit,
C    base-B form
C              sign (B**E)*( (X(1)/B) + ... + (X(T)/B**T) )
C
C              where 0 .LE. X(I) .LT. B for I=1,...,T,
C              0 .LT. X(1), and EMIN .LE. E .LE. EMAX.
C    I1MACH(10) = B, the base.
C
C  Single-Precision
C    I1MACH(11) = T, the number of base-B digits.
C    I1MACH(12) = EMIN, the smallest exponent E.
C    I1MACH(13) = EMAX, the largest exponent
 E.
C
C  Double-Precision
C    I1MACH(14) = T, the number of base-B digits.
C    I1MACH(15) = EMIN, the smallest exponent E.
C    I1MACH(16) = EMAX, the largest exponent E.
C
C  To alter this function for a particular environment,
C  the desired set of DATA statements should be activated by
C  removing the C from column 1.  Also, the values of
C  I1MACH(1) - I1MACH(4) should be checked for consistency
C  with the local operating system.
C
C***REFERENCES  FOX P.A., HALL A.D., SCHRYER N.L.,*FRAMEWORK FOR A
C               PORTABLE LIBRARY*, ACM TRANSACTIONS ON MATHEMATICAL
C               SOFTWARE, VOL. 4, NO. 2, JUNE 1978, PP. 177-188.
C***ROUTINES CALLED  (NONE)
```

```
C***END PROLOGUE  I1MACH
C
      INTEGER IMACH(16),OUTPUT
      SAVE IMACH
      EQUIVALENCE (IMACH(4),OUTPUT)
C
C     MACHINE CONSTANTS FOR THE IBM PC
C
      DATA IMACH( 1) /     5 /
      DATA IMACH( 2) /     6 /
      DATA IMACH( 3) /     0 /
      DATA IMACH( 4) /     0 /
      DATA IMACH( 5) /    32 /
      DATA IMACH(
 6) /     4 /
      DATA IMACH( 7) /     2 /
      DATA IMACH( 8) /    31 /
      DATA IMACH( 9) / 2147483647 /
      DATA IMACH(10) /     2 /
      DATA IMACH(11) /    24 /
      DATA IMACH(12) /  -125 /
      DATA IMACH(13) /   127 /
      DATA IMACH(14) /    53 /
      DATA IMACH(15) / -1021 /
      DATA IMACH(16) /  1023 /
C
C***FIRST EXECUTABLE STATEMENT  I1MACH
      IF (I .LT. 1  .OR.  I .GT. 16) GO TO 10
C
      I1MACH = IMACH(I)
      RETURN
C
   10 CONTINUE
      WRITE (UNIT = OUTPUT, FMT = 9000)
9000 FORMAT ('1ERROR    1 IN I1MACH - I OUT OF BOUNDS')
C
C     CALL FDUMP
C
C
      STOP
      END
graph{diG8{}diG5{}diG5{}diG5{}diG5}
digraph{DE}
// Code generated by "go generate gonum.org/v1/gonum/unit/constant; DO NOT EDIT.

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// license that can be found in the LICENSE file.
```

```
package constant

import (
 "fmt"
 "testing"
)

func TestPlanckFormat(t *testing.T) {
 for _, test := range []struct {
  format string
  want   string
 }{
  {"%v", "6.62607015e-34 kg m^2 s^-1"},
  {"%.1v", "7e-34 kg m^2 s^-1"},
  {"%50.1v", "                                7e-34 kg m^2 s^-1"},
  {"%50v", "                        6.62607015e-34 kg m^2 s^-1"},
  {"%1v", "6.62607015e-34 kg m^2 s^-1"},
  {"%#v", "constant.planckUnits(6.62607015e-34)"},
  {"%s", "%!s(constant.planckUnits=6.62607015e-34 kg m^2 s^-1)"},
 } {
  got := fmt.Sprintf(test.format, Planck)
  if got != test.want {
   t.Errorf("Format %q: got: %q want: %q", test.format, got, test.want)
  }
 }
}
graph{Nodd{Nodd{{Nodd{{Nodd}{Nodd{{Nodd}Nodd}}}}{Nodd{{Nodd}Nodd}}}}}
graph{{Digr_{}Digr_}{Digr_}{Digr_{Digr_}{Digr_}{Digr_}Digr_{Digr_}}}
graph{{SUBGRAP0}}
graph{{D{D{D{}D}D}}}
graph{{{{{{DI_}{DI_}{DI_}DI_}{DI_{DI_}}}}}}
graph{{{{Gra_}Gra_}Gra_}Gra{{Gra_{Gra_}Gra_}Gra_}Gra_}
graph{e[l=<<"><"></></></></></></></></><"></></></></></></></></></>>]}
graph{{SubGrap{{SubGrapp{{SubGrap}}}}}}
Graph{{SubGr4}{SubGr4{SubGr4}}}
graph{{DIGRA}{DIGRA}{DIGRA}{DIGRA}}
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package gonum

import (
 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
)
```

```
// Dgetri computes the inverse of the matrix A using the LU factorization computed
// by Dgetrf. On entry, a contains the PLU decomposition of A as computed by
// Dgetrf and on exit contains the reciprocal of the original matrix.
//
// Dgetri will not perform the inversion if the matrix is singular, and returns
// a boolean indicating whether the inversion was successful.
//
// work is temporary storage, and lwork specifies the usable memory length.
// At minimum, lwork >= n and this function will panic otherwise.
// Dgetri is a blocked inversion, but the block size is limited
// by the temporary space available. If lwork == -1, instead of performing Dgetri,
// the optimal work length will be stored into work[0].
func (impl Implementation)
 Dgetri(n int, a []float64, lda int, ipiv []int, work []float64, lwork int) (ok bool) {
 iws := max(1, n)
 switch {
 case n < 0:
  panic(nLT0)
 case lda < max(1, n):
  panic(badLdA)
 case lwork < iws && lwork != -1:
  panic(badLWork)
 case len(work) < max(1, lwork):
  panic(shortWork)
 }

 if n == 0 {
  work[0] = 1
  return true
 }

 nb := impl.Ilaenv(1, "DGETRI", " ", n, -1, -1, -1)
 if lwork == -1 {
  work[0] = float64(n * nb)
  return true
 }

 switch {
 case len(a) < (n-1)*lda+n:
  panic(shortA)
 case len(ipiv) != n:
  panic(badLenIpiv)
 }

 // Form inv(U).
 ok = impl.Dtrtri(blas.Upper, blas.NonUnit, n, a, lda)
 if !ok {
  return false
```

```
}

nbmin := 2
if 1 < nb && nb < n {
 iws = max(n*nb, 1)
 if lwork < iws {
  nb = lwork / n
  nbmin = max(2, impl.Ilaenv(2, "DGETRI", " ", n, -1, -1, -1))
 }
}
ldwork := nb

bi := blas64.Implementation()
// Solve the equation inv(A)*L = inv(U) for inv(A).
// TODO(btracey): Replace this with a more row-major oriented algorithm.
if nb < nbmin
|| n <= nb {
 // Unblocked code.
 for j := n - 1; j >= 0; j-- {
  for i := j + 1; i < n; i++ {
   // Copy current column of L to work and replace with zeros.
   work[i] = a[i*lda+j]
   a[i*lda+j] = 0
  }
  // Compute current column of inv(A).
  if j < n-1 {
   bi.Dgemv(blas.NoTrans, n, n-j-1, -1, a[(j+1):], lda, work[(j+1):], 1, 1, a[j:], lda)
  }
 }
} else {
 // Blocked code.
 nn := ((n - 1) / nb) * nb
 for j := nn; j >= 0; j -= nb {
  jb := min(nb, n-j)
  // Copy current block column of L to work and replace
  // with zeros.
  for jj := j; jj < j+jb; jj++ {
   for i := jj + 1; i < n; i++ {
    work[i*ldwork+(jj-j)] = a[i*lda+jj]
    a[i*lda+jj] = 0
   }
  }
  // Compute current block column of inv(A).
  if j+jb < n {
   bi.Dgemm(blas.NoTrans, blas.NoTrans, n, jb, n-j-jb, -1, a[(j+jb):], lda, work[(j+jb)*ldwork:], ldwork, 1, a[j:], lda)
  }
  bi.Dtrsm(blas.Right, blas.Lower, blas.NoTrans, blas.Unit, n, jb, 1, work[j*ldwork:], ldwork, a[j:], lda)
 }
```

```
 }
 //
 Apply column interchanges.
 for j := n - 2; j >= 0; j-- {
  jp := ipiv[j]
  if jp != j {
   bi.Dswap(n, a[j:], lda, a[jp:], lda)
  }
 }
 work[0] = float64(iws)
 return true
}
graph{{{{edgg}edgg}edgg}edgw}
graph{SUA{SUA{SUA}SUA}{SUA{SUA{SUA}SUA}{SUA}SUA}SUA}
graph{"\\\\"}
graph{{{{{{{str{{str}}}}}str}}}}
graph{SUBA}
      DOUBLE PRECISION FUNCTION MYABS(A)
     DOUBLE PRECISION A
     MYABS = DABS(A)
     RETURN
     END
digraph{.5[h=.1t=.1t=.5]}
digraph {
 A [style=filled] [fillcolor=red]
}
graph{{ed_{ed_{ed_}}ed_}ed_}
graph{STRIR{STRIR}STRIR{STRIR}STRI}
graph{{{gra0{{gra0}{gra0{gra0{{gra0}{gra0}}}}}}}}
graph{{die{die{die}die}die{die{die{die}die}die}}}
digraph{h[l=""]ge[l=""]ne_s[l=""]ge_n_e_r[l=""]_d_s[l=""]_d_s_e_f_a[l=""]_s[l=""]ne_S_s[l=""]ge->{ge_n_e_r_s
ne_S_s ne_s_s}_s->_d_s_d_s->_d_s_e_f_a_d_s_e_f_a->_d_s_d_s->ge_n_e_r[e=d]}
graph{{{{EDGEG}EDGEG{EDGEG}}EDGEG{{EDGEG}EDGEG{EDGEG}{EDGEG}EDGEG{EDGEG}{}}}}
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// license that can be found in the LICENSE file.

package optimize

import (
 "math"

 "gonum.org/v1/gonum/floats"
)

// localOptimizer is a helper type for running an optimization using a LocalMethod.
type localOptimizer struct{}
```

```
// run controls the optimization run for a localMethod. The calling method
// must close the operation channel at the conclusion of the optimization. This
// provides a happens before relationship between the return of status and the
// closure of operation, and thus a call to method.Status (if necessary).
func (l localOptimizer) run(method localMethod, gradThresh float64, operation chan<- Task, result <-chan Task,
tasks []Task) (Status, error) {
 // Local methods start with a fully-specified initial location.
 task := tasks[0]
 task = l.initialLocation(operation, result, task, method)
 if task.Op == PostIteration {
  l.finish(operation, result)
  return
 NotTerminated, nil
 }
 status, err := l.checkStartingLocation(task, gradThresh)
 if err != nil {
  l.finishMethodDone(operation, result, task)
  return status, err
 }

 // Send a major iteration with the starting location.
 task.Op = MajorIteration
 operation <- task
 task = <-result
 if task.Op == PostIteration {
  l.finish(operation, result)
  return NotTerminated, nil
 }
 op, err := method.initLocal(task.Location)
 if err != nil {
  l.finishMethodDone(operation, result, task)
  return Failure, err
 }
 task.Op = op
 operation <- task
Loop:
 for {
  r := <-result
  switch r.Op {
  case PostIteration:
   break Loop
  case MajorIteration:
   // The last operation was a MajorIteration. Check if the gradient
   // is below the threshold.
   if status := l.checkGradientConvergence(r.Gradient, gradThresh); status != NotTerminated {
    l.finishMethodDone(operation, result, task)
    return GradientThreshold, nil
   }
```

```
  fallthrough
 default:
  op, err := method.iterateLocal(r.Location)
  if
err != nil {
   l.finishMethodDone(operation, result, r)
   return Failure, err
  }
  r.Op = op
  operation <- r
 }
}
l.finish(operation, result)
return NotTerminated, nil
}

// initialOperation returns the Operation needed to fill the initial location
// based on the needs of the method and the values already supplied.
func (localOptimizer) initialOperation(task Task, n needser) Operation {
 var newOp Operation
 op := task.Op
 if op&FuncEvaluation == 0 {
  newOp |= FuncEvaluation
 }
 needs := n.needs()
 if needs.Gradient && op&GradEvaluation == 0 {
  newOp |= GradEvaluation
 }
 if needs.Hessian && op&HessEvaluation == 0 {
  newOp |= HessEvaluation
 }
 return newOp
}

// initialLocation fills the initial location based on the needs of the method.
// The task passed to initialLocation should be the first task sent in RunGlobal.
func (l localOptimizer) initialLocation(operation chan<- Task, result <-chan Task, task Task, needs needser) Task {
 task.Op = l.initialOperation(task,
 needs)
 operation <- task
 return <-result
}

func (l localOptimizer) checkStartingLocation(task Task, gradThresh float64) (Status, error) {
 if math.IsInf(task.F, 1) || math.IsNaN(task.F) {
  return Failure, ErrFunc(task.F)
 }
 for i, v := range task.Gradient {
```

```
  if math.IsInf(v, 0) || math.IsNaN(v) {
   return Failure, ErrGrad{Grad: v, Index: i}
  }
 }
 status := l.checkGradientConvergence(task.Gradient, gradThresh)
 return status, nil
}

func (localOptimizer) checkGradientConvergence(gradient []float64, gradThresh float64) Status {
 if gradient == nil || math.IsNaN(gradThresh) {
  return NotTerminated
 }
 if gradThresh == 0 {
  gradThresh = defaultGradientAbsTol
 }
 if norm := floats.Norm(gradient, math.Inf(1)); norm < gradThresh {
  return GradientThreshold
 }
 return NotTerminated
}

// finish completes the channel operations to finish an optimization.
func (localOptimizer) finish(operation chan<- Task, result <-chan Task) {
 // Guarantee that result is closed before operation
 is closed.
 for range result {
 }
}

// finishMethodDone sends a MethodDone signal on operation, reads the result,
// and completes the channel operations to finish an optimization.
func (l localOptimizer) finishMethodDone(operation chan<- Task, result <-chan Task, task Task) {
 task.Op = MethodDone
 operation <- task
 task = <-result
 if task.Op != PostIteration {
  panic("optimize: task should have returned post iteration")
 }
 l.finish(operation, result)
}
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// license that can be found in the LICENSE file.

package testlapack

import (
 "testing"
```

```
 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
 "gonum.org/v1/gonum/floats"
)

type Dorgtrer interface {
 Dorgtr(uplo blas.Uplo, n int, a []float64, lda int, tau, work []float64, lwork int)
 Dsytrder
}

func DorgtrTest(t *testing.T, impl Dorgtrer) {
 rnd := rand.New(rand.NewSource(1))
 for _, uplo := range []blas.Uplo{blas.Upper, blas.Lower} {
  for _, wl := range []worklen{minimumWork, mediumWork, optimumWork} {
   for _, test := range []struct {
    n, lda int
   }{
    {1, 0},
    {2, 0},
    {3, 0},
    {6, 0},
    {33, 0},
    {100, 0},

    {1, 3},
    {2, 5},
    {3, 7},
    {6, 10},
    {33, 50},
    {100, 120},
   } {
    n := test.n
    lda := test.lda
    if lda == 0 {
     lda = n
    }
    // Allocate nn matrix A and fill it with random
 numbers.
    a := make([]float64, n*lda)
    for i := range a {
     a[i] = rnd.NormFloat64()
    }
    aCopy := make([]float64, len(a))
    copy(aCopy, a)
```

```
// Allocate slices for the main diagonal and the
// first off-diagonal of the tri-diagonal matrix.
d := make([]float64, n)
e := make([]float64, n-1)
// Allocate slice for elementary reflector scales.
tau := make([]float64, n-1)

// Compute optimum workspace size for Dorgtr call.
work := make([]float64, 1)
impl.Dsytrd(uplo, n, a, lda, d, e, tau, work, -1)
work = make([]float64, int(work[0]))

// Compute elementary reflectors that reduce the
// symmetric matrix defined by the uplo triangle
// of A to a tridiagonal matrix.
impl.Dsytrd(uplo, n, a, lda, d, e, tau, work, len(work))

// Compute workspace size for Dorgtr call.
var lwork int
switch wl {
case minimumWork:
 lwork = max(1, n-1)
case mediumWork:
 work := make([]float64, 1)
 impl.Dorgtr(uplo,
n, a, lda, tau, work, -1)
 lwork = (int(work[0]) + n - 1) / 2
 lwork = max(1, lwork)
case optimumWork:
 work := make([]float64, 1)
 impl.Dorgtr(uplo, n, a, lda, tau, work, -1)
 lwork = int(work[0])
}
work = nanSlice(lwork)

// Generate an orthogonal matrix Q that reduces
// the uplo triangle of A to a tridiagonal matrix.
impl.Dorgtr(uplo, n, a, lda, tau, work, len(work))
q := blas64.General{
 Rows:   n,
 Cols:   n,
 Stride: lda,
 Data:   a,
}

if !isOrthogonal(q) {
 t.Errorf("Case uplo=%v,n=%v: Q is not orthogonal", uplo, n)
 continue
```

```
 }

 // Create the tridiagonal matrix explicitly in
 // dense representation from the diagonals d and e.
 tri := blas64.General{
  Rows:   n,
  Cols:   n,
  Stride: n,
  Data:   make([]float64, n*n),
 }
 for i := 0; i < n; i++ {
  tri.Data[i*tri.Stride+i] = d[i]
  if i != n-1 {
   tri.Data[i*tri.Stride+i+1] = e[i]
   tri.Data[(i+1)*tri.Stride+i]
= e[i]
  }
 }

 // Create the symmetric matrix A from the uplo
 // triangle of aCopy, storing it explicitly in dense form.
 aMat := blas64.General{
  Rows:   n,
  Cols:   n,
  Stride: n,
  Data:   make([]float64, n*n),
 }
 if uplo == blas.Upper {
  for i := 0; i < n; i++ {
   for j := i; j < n; j++ {
    v := aCopy[i*lda+j]
    aMat.Data[i*aMat.Stride+j] = v
    aMat.Data[j*aMat.Stride+i] = v
   }
  }
 } else {
  for i := 0; i < n; i++ {
   for j := 0; j <= i; j++ {
    v := aCopy[i*lda+j]
    aMat.Data[i*aMat.Stride+j] = v
    aMat.Data[j*aMat.Stride+i] = v
   }
  }
 }

 // Compute Q * A * Q and store the result in ans.
 tmp := blas64.General{Rows: n, Cols: n, Stride: n, Data: make([]float64, n*n)}
 blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, aMat, q, 0, tmp)
```

```
   ans := blas64.General{Rows: n, Cols: n, Stride: n, Data: make([]float64, n*n)}
   blas64.Gemm(blas.Trans, blas.NoTrans,
 1, q, tmp, 0, ans)

   // Compare the tridiagonal matrix tri from
   // Dorgtr with the explicit computation ans.
   if !floats.EqualApprox(ans.Data, tri.Data, 1e-13) {
    t.Errorf("Recombination mismatch. n = %v, isUpper = %v", n, uplo == blas.Upper)
   }
  }
 }
}
}
graph{{subGraph_}}
graph{<=><=>{<=><=><=>{<=>}}}
      SUBROUTINE ZSHCH(ZR, ZI, CSHR, CSHI, CCHR, CCHI)
C***BEGIN PROLOGUE  ZSHCH
C***REFER TO  ZBESK,ZBESH
C
C     ZSHCH COMPUTES THE COMPLEX HYPERBOLIC FUNCTIONS CSH=SINH(X+I*Y)
C     AND CCH=COSH(X+I*Y), WHERE I**2=-1.
C
C***ROUTINES CALLED  (NONE)
C***END PROLOGUE  ZSHCH
C
      DOUBLE PRECISION CCHI, CCHR, CH, CN, CSHI, CSHR, SH, SN, ZI, ZR,
     * DCOSH, DSINH
      SH = DSINH(ZR)
      CH = DCOSH(ZR)
      SN = DSIN(ZI)
      CN = DCOS(ZI)
      CSHR = SH*CN
      CSHI = CH*SN
      CCHR = CH*CN
      CCHI = SH*SN
      RETURN
      END
Graph{subg2{subg4}}
graph{NoN{NoR{NoR}NoR}}
graph{diGra}
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// license that can be found in the LICENSE file.

package gonum

import "math"
```

```
// Dlasq5 computes one dqds transform in ping-pong form.
// i0 and n0 are zero-indexed.
//
// Dlasq5 is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dlasq5(i0, n0 int, z []float64, pp int, tau, sigma float64) (i0Out, n0Out, ppOut int,
tauOut, sigmaOut, dmin, dmin1, dmin2, dn, dnm1, dnm2 float64) {
 // The lapack function has inputs for ieee and eps, but Go requires ieee so
 // these are unnecessary.

 switch {
 case i0 < 0:
  panic(i0LT0)
 case n0 < 0:
  panic(n0LT0)
 case len(z) < 4*n0:
  panic(shortZ)
 case pp != 0 && pp != 1:
  panic(badPp)
 }

 if n0-i0-1 <= 0 {
  return i0, n0, pp, tau, sigma, dmin, dmin1, dmin2, dn, dnm1, dnm2
 }

 eps := dlamchP
 dthresh := eps * (sigma + tau)
 if tau < dthresh*0.5 {
  tau = 0
 }
 var j4 int
 var emin float64
 if tau
 != 0 {
  j4 = 4*i0 + pp
  emin = z[j4+4]
  d := z[j4] - tau
  dmin = d
  // In the reference there are code paths that actually return this value.
  // dmin1 = -z[j4]
  if pp == 0 {
   for j4loop := 4 * (i0 + 1); j4loop <= 4*((n0+1)-3); j4loop += 4 {
    j4 := j4loop - 1
    z[j4-2] = d + z[j4-1]
    tmp := z[j4+1] / z[j4-2]
    d = d*tmp - tau
    dmin = math.Min(dmin, d)
    z[j4] = z[j4-1] * tmp
    emin = math.Min(z[j4], emin)
```

```
 }
} else {
 for j4loop := 4 * (i0 + 1); j4loop <= 4*((n0+1)-3); j4loop += 4 {
  j4 := j4loop - 1
  z[j4-3] = d + z[j4]
  tmp := z[j4+2] / z[j4-3]
  d = d*tmp - tau
  dmin = math.Min(dmin, d)
  z[j4-1] = z[j4] * tmp
  emin = math.Min(z[j4-1], emin)
 }
}
// Unroll the last two steps.
dnm2 = d
dmin2 = dmin
j4 = 4*((n0+1)-2) - pp - 1
j4p2 := j4 + 2*pp - 1
z[j4-2] = dnm2 + z[j4p2]
z[j4] = z[j4p2+2] * (z[j4p2] / z[j4-2])
dnm1 = z[j4p2+2]*(dnm2/z[j4-2]) - tau
dmin = math.Min(dmin, dnm1)

dmin1 = dmin
j4 += 4
j4p2 = j4
+ 2*pp - 1
z[j4-2] = dnm1 + z[j4p2]
z[j4] = z[j4p2+2] * (z[j4p2] / z[j4-2])
dn = z[j4p2+2]*(dnm1/z[j4-2]) - tau
dmin = math.Min(dmin, dn)
} else {
// This is the version that sets d's to zero if they are small enough.
j4 = 4*(i0+1) + pp - 4
emin = z[j4+4]
d := z[j4] - tau
dmin = d
// In the reference there are code paths that actually return this value.
// dmin1 = -z[j4]
if pp == 0 {
 for j4loop := 4 * (i0 + 1); j4loop <= 4*((n0+1)-3); j4loop += 4 {
  j4 := j4loop - 1
  z[j4-2] = d + z[j4-1]
  tmp := z[j4+1] / z[j4-2]
  d = d*tmp - tau
  if d < dthresh {
   d = 0
  }
  dmin = math.Min(dmin, d)
```

```
   z[j4] = z[j4-1] * tmp
   emin = math.Min(z[j4], emin)
  }
 } else {
  for j4loop := 4 * (i0 + 1); j4loop <= 4*((n0+1)-3); j4loop += 4 {
   j4 := j4loop - 1
   z[j4-3] = d + z[j4]
   tmp := z[j4+2] / z[j4-3]
   d = d*tmp - tau
   if d < dthresh {
    d = 0
   }
   dmin = math.Min(dmin, d)
   z[j4-1] = z[j4] * tmp
   emin = math.Min(z[j4-1],
emin)
  }
 }
 // Unroll the last two steps.
 dnm2 = d
 dmin2 = dmin
 j4 = 4*((n0+1)-2) - pp - 1
 j4p2 := j4 + 2*pp - 1
 z[j4-2] = dnm2 + z[j4p2]
 z[j4] = z[j4p2+2] * (z[j4p2] / z[j4-2])
 dnm1 = z[j4p2+2]*(dnm2/z[j4-2]) - tau
 dmin = math.Min(dmin, dnm1)

 dmin1 = dmin
 j4 += 4
 j4p2 = j4 + 2*pp - 1
 z[j4-2] = dnm1 + z[j4p2]
 z[j4] = z[j4p2+2] * (z[j4p2] / z[j4-2])
 dn = z[j4p2+2]*(dnm1/z[j4-2]) - tau
 dmin = math.Min(dmin, dn)
 }
 z[j4+2] = dn
 z[4*(n0+1)-pp-1] = emin
 return i0, n0, pp, tau, sigma, dmin, dmin1, dmin2, dn, dnm1, dnm2
}
graph{SUB_{SUB_{SUB_}}}
graph{{{edgN{{{{edgN{{edgN}}edgJ}}edgJ}}}}}
graph{"\
\
\
\
\
\
```

```
\\\\"}
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// license that can be found in the LICENSE file.

package distuv

const (
 // oneOverRoot2Pi is the value of 1/(2Pi)^(1/2)
 // http://www.wolframalpha.com/input/?i=1%2F%282+*+pi%29%5E%281%2F2%29
 oneOverRoot2Pi =
0.3989422804014326779399460599343818684758586311649346576659258296706579258993018385012523339073069364303025588626351826 8

 //LogRoot2Pi is the value of log(sqrt(2*Pi))
 logRoot2Pi    =
0.9189385332046727417803297364056176398613974736377834128171515404827656959272603976947432986359541976220056466246343374 4
 negLogRoot2Pi = -logRoot2Pi
 log2Pi        = 1.8378770664093454835606594728112352797227949472755668
 ln2           =
0.6931471805599453094172321214581765680755001343602552541206800094933936219696947156058633269964186875420014810205706857336855 2023

 // EulerMascheroni constant.
 eulerGamma =
0.5772156649015328606065120900824024310421593359399235988057672348848677267776646709369470632917467495146314472498070824809605
)

const
 (
 panicNameMismatch = "parameter name mismatch"
)
digraph{{digrape}{digrape}{digrape}{digrape}}
digraph { z[l="o\ld",c="",e=24,e="",e=d,r=""] [e=d] [c=d] grn[c=grn] b[c=b,r=b] c[c=c] [c=a] [r=w] [c=e] d->grn ->b b->c
b->a grn->w grn->e}
graph{{{Subg1}{Subg1}Subg1}{Subg1}}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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// license that can be found in the LICENSE file.

package unit

import (
 "fmt"
```

```
 "testing"
)

func TestFrequencyFormat(t *testing.T) {
 for _, test := range []struct {
  value  Frequency
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 Hz"},
  {1.23456789, "%.1v", "1 Hz"},
  {1.23456789, "%20.1v", "                1 Hz"},
  {1.23456789, "%20v", "       1.23456789 Hz"},
  {1.23456789, "%1v", "1.23456789 Hz"},
  {1.23456789, "%#v", "unit.Frequency(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Frequency=1.23456789 Hz)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
graph{<<======>>}
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package integrate

import "sort"

// Trapezoidal returns an approximate value of the integral
//  \int_a^b f(x) dx
// computed using the trapezoidal rule. The function f is given as a slice of
// samples evaluated at locations in x, that is,
//  f[i] = f(x[i]), x[0] = a, x[len(x)-1] = b
// The slice x must be sorted in strictly increasing order. x and f must be of
// equal length and the length must be at least 2.
//
// The trapezoidal rule approximates f by a piecewise linear function and
// estimates
//  \int_x[i]^x[i+1] f(x) dx
// as
//  (x[i+1] - x[i]) * (f[i] + f[i+1])/2
// More details on the trapezoidal rule can be found at:
// https://en.wikipedia.org/wiki/Trapezoidal_rule
func Trapezoidal(x, f []float64) float64 {
```

```
 n := len(x)
 switch {
 case len(f) != n:
  panic("integrate: slice length mismatch")
 case n < 2:
  panic("integrate:
 input data too small")
 case !sort.Float64sAreSorted(x):
  panic("integrate: input must be sorted")
 }

 integral := 0.0
 for i := 0; i < n-1; i++ {
  integral += 0.5 * (x[i+1] - x[i]) * (f[i+1] + f[i])
 }

 return integral
}
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// license that can be found in the LICENSE file.

package integrate

import (
 "math"
 "testing"

 "gonum.org/v1/gonum/floats"
 "gonum.org/v1/gonum/integrate/testquad"
)

func TestRomberg(t *testing.T) {
 for i, test := range []struct {
  integral testquad.Integral
  n        int
  tol      float64
 }{
  {integral: testquad.Constant(0), n: 3, tol: 0},
  {integral: testquad.Constant(0), n: 1<<5 + 1, tol: 0},
  {integral: testquad.Poly(0), n: 3, tol: 1e-14},
  {integral: testquad.Poly(0), n: 1<<5 + 1, tol: 1e-14},
  {integral: testquad.Poly(1), n: 3, tol: 1e-14},
  {integral: testquad.Poly(1), n: 1<<5 + 1, tol: 1e-14},
  {integral: testquad.Poly(2), n: 3, tol: 1e-14},
  {integral: testquad.Poly(2), n: 1<<5 + 1, tol: 1e-14},
  {integral: testquad.Poly(3), n: 3, tol: 1e-14},
  {integral: testquad.Poly(3), n: 1<<5 + 1, tol: 1e-14},
```

```
 {integral: testquad.Poly(4), n: 5, tol: 1e-14},
 {integral:
testquad.Poly(4), n: 1<<5 + 1, tol: 1e-14},
 {integral: testquad.Poly(5), n: 5, tol: 1e-14},
 {integral: testquad.Poly(5), n: 1<<5 + 1, tol: 1e-14},
 {integral: testquad.Sin(), n: 1<<3 + 1, tol: 1e-10},
 {integral: testquad.Sin(), n: 1<<5 + 1, tol: 1e-14},
 {integral: testquad.XExpMinusX(), n: 1<<3 + 1, tol: 1e-9},
 {integral: testquad.XExpMinusX(), n: 1<<5 + 1, tol: 1e-14},
 {integral: testquad.Sqrt(), n: 1<<10 + 1, tol: 1e-5},
 {integral: testquad.ExpOverX2Plus1(), n: 1<<4 + 1, tol: 1e-7},
 {integral: testquad.ExpOverX2Plus1(), n: 1<<6 + 1, tol: 1e-14},
} {
 n := test.n
 a := test.integral.A
 b := test.integral.B

 x := make([]float64, n)
 floats.Span(x, a, b)

 y := make([]float64, n)
 for i, xi := range x {
  y[i] = test.integral.F(xi)
 }

 dx := (b - a) / float64(n-1)
 got := Romberg(y, dx)

 want := test.integral.Value
 diff := math.Abs(got - want)
 if diff > test.tol {
  t.Errorf("Test #%d: %v, n=%v: unexpected result; got=%v want=%v diff=%v",
   i,
test.integral.Name, n, got, want, diff)
 }
}
}
digraph {
 A [style=filled, fillcolor=red; color=blue]
}
digraph{D->D->D:D->D->D->D->D->D}
graph{{{{_____{__________}}__{_____________}}__{__________}}}
graph{SUA{SUA{SUA}SUA}}
Graph{{gr4}gr7{{gr4}gr7}}
graph{Edgh{Edgr}}
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```

```
package testblas

import (
 "fmt"
 "testing"

 "golang.org/x/exp/rand"
 "gonum.org/v1/gonum/blas"
)

type Zgbmver interface {
 Zgbmv(trans blas.Transpose, m, n, kL, kU int, alpha complex128, ab []complex128, ldab int, x []complex128, incX
int, beta complex128, y []complex128, incY int)

 Zgemver
}

func ZgbmvTest(t *testing.T, impl Zgbmver) {
 rnd := rand.New(rand.NewSource(1))
 for _, trans := range []blas.Transpose{blas.NoTrans, blas.Trans, blas.ConjTrans} {
  // Generate all possible size combinations.
  for _, mn := range allPairs([]int{1, 2, 3, 5}, []int{1, 2, 3, 5}) {
   m := mn[0]
   n := mn[1]
   // Generate all possible numbers of lower and upper
   // diagonals. Use slices to reduce indentation.
   kLs := make([]int, max(1, m))
   for i := range kLs {
    kLs[i] = i
   }
   kUs := make([]int, max(1, n))
   for i := range
 kUs {
    kUs[i] = i
   }
   for _, ks := range allPairs(kLs, kUs) {
    kL := ks[0]
    kU := ks[1]
    for _, ab := range []struct {
     alpha complex128
     beta  complex128
    }{
     // All potentially relevant values of
     // alpha and beta.
     {0, 0},
     {0, 1},
     {0, complex(rnd.NormFloat64(), rnd.NormFloat64())},
```

```
    {complex(rnd.NormFloat64(), rnd.NormFloat64()), 0},
    {complex(rnd.NormFloat64(), rnd.NormFloat64()), 1},
    {complex(rnd.NormFloat64(), rnd.NormFloat64()), complex(rnd.NormFloat64(), rnd.NormFloat64())},
   } {
    for _, ldab := range []int{kL + kU + 1, kL + kU + 20} {
     for _, inc := range allPairs([]int{-3, -2, -1, 1, 2, 3}, []int{-3, -2, -1, 1, 2, 3}) {
      incX := inc[0]
      incY := inc[1]
      testZgbmv(t, impl, rnd, trans, m, n, kL, kU, ab.alpha, ab.beta, ldab, incX, incY)
     }
    }
   }
  }
 }
}
}

// testZgbmv tests Zgbmv by comparing its output to that of Zgemv.
func testZgbmv(t *testing.T, impl Zgbmver, rnd
 *rand.Rand, trans blas.Transpose, m, n, kL, kU int, alpha, beta complex128, ldab, incX, incY int) {
 const tol = 1e-13

 // Allocate a dense-storage band matrix filled with NaNs that will be
 // used as the reference matrix for Zgemv.
 lda := max(1, n)
 a := makeZGeneral(nil, m, n, lda)
 // Fill the matrix with zeros.
 for i := 0; i < m; i++ {
  for j := 0; j < n; j++ {
   a[i*lda+j] = 0
  }
 }
 // Fill the band with random data.
 for i := 0; i < m; i++ {
  for j := max(0, i-kL); j < min(n, i+kU+1); j++ {
   re := rnd.NormFloat64()
   im := rnd.NormFloat64()
   a[i*lda+j] = complex(re, im)
  }
 }
 // Create the actual band matrix.
 ab := zPackBand(kL, kU, ldab, m, n, a, lda)
 abCopy := make([]complex128, len(ab))
 copy(abCopy, ab)

 // Compute correct lengths of vectors x and y.
 var lenX, lenY int
 switch trans {
```

```
case blas.NoTrans:
 lenX = n
 lenY = m
case blas.Trans, blas.ConjTrans:
 lenX = m
 lenY = n
}

// Generate a random complex vector x.
xtest := make([]complex128, lenX)
for
i := range xtest {
 re := rnd.NormFloat64()
 im := rnd.NormFloat64()
 xtest[i] = complex(re, im)
}
x := makeZVector(xtest, incX)
xCopy := make([]complex128, len(x))
copy(xCopy, x)

// Generate a random complex vector y.
ytest := make([]complex128, lenY)
for i := range ytest {
 re := rnd.NormFloat64()
 im := rnd.NormFloat64()
 ytest[i] = complex(re, im)
}
y := makeZVector(ytest, incY)

want := make([]complex128, len(y))
copy(want, y)

// Compute the reference result of alpha*op(A)*x + beta*y, storing it
// into want.
impl.Zgemv(trans, m, n, alpha, a, lda, x, incX, beta, want, incY)
// Compute alpha*op(A)*x + beta*y, storing the result in-place into y.
impl.Zgbmv(trans, m, n, kL, kU, alpha, ab, ldab, x, incX, beta, y, incY)

name := fmt.Sprintf("trans=%v,m=%v,n=%v,kL=%v,kU=%v,lda=%v,incX=%v,incY=%v", trans, m, n, kL, kU, lda,
incX, incY)
if !zsame(ab, abCopy) {
 t.Errorf("%v: unexpected modification of ab", name)
}
if !zsame(x, xCopy) {
 t.Errorf("%v:
unexpected modification of x", name)
}
if !zSameAtNonstrided(y, want, incY) {
```

```
  t.Errorf("%v: unexpected modification of y", name)
 }
 if !zEqualApproxAtStrided(y, want, incY, tol) {
  t.Errorf("%v: unexpected result\ngot  %v\nwant %v\n", name, y, want)
 }
}
graph{Strica{Strica-9Strica-9Strica}}
graph{graph[]Graph[]graph[]}
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// Package c64 provides complex64 vector primitives.
package c64 // import "gonum.org/v1/gonum/internal/asm/c64"
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// license that can be found in the LICENSE file.

package dualquat_test

import (
 "fmt"

 "gonum.org/v1/gonum/num/dualquat"
 "gonum.org/v1/gonum/num/quat"
)

func Example_displace() {
 // Displace a point [3, 4, 5] by [4, 2, 6].
 // See http://www.euclideanspace.com/maths/algebra/realNormedAlgebra/other/dualQuaternion/index.htm

 // Point to be transformed in the dual imaginary vector.
 p := dualquat.Number{Real: quat.Number{Real: 1}, Dual: quat.Number{Imag: 3, Jmag: 4, Kmag: 5}}

 // Displacement vector, half [4, 2, 6], in the dual imaginary vector.
 d := dualquat.Number{Real: quat.Number{Real: 1}, Dual: quat.Number{Imag: 2, Jmag: 1, Kmag: 3}}

 fmt.Println(dualquat.Mul(dualquat.Mul(d, p), dualquat.Conj(d)).Dual)

 // Output:
 //
 // (0+7i+6j+11k)
}

func Example_rotate() {
 // Rotate a point [3, 4, 5] by 180 around the x axis.
 // See http://www.euclideanspace.com/maths/algebra/realNormedAlgebra/other/dualQuaternion/index.htm
```

```
 //
 Point to be transformed in the dual imaginary vector.
 p := dualquat.Number{Real: quat.Number{Real: 1}, Dual: quat.Number{Imag: 3, Jmag: 4, Kmag: 5}}

 // Rotation in the real quaternion.
 r := dualquat.Number{Real: quat.Number{Real: 0, Imag: 1}}

 fmt.Println(dualquat.Mul(dualquat.Mul(r, p), dualquat.Conj(r)).Dual)

 // Output:
 //
 // (0+3i-4j-5k)
}

func Example_displaceAndRotate() {
 // Displace a point [3, 4, 5] by [4, 2, 6] and then rotate
 // by 180 around the x axis.
 // See http://www.euclideanspace.com/maths/algebra/realNormedAlgebra/other/dualQuaternion/index.htm

 // Point to be transformed in the dual imaginary vector.
 p := dualquat.Number{Real: quat.Number{Real: 1}, Dual: quat.Number{Imag: 3, Jmag: 4, Kmag: 5}}

 // Displacement vector, half [4, 2, 6], in the dual imaginary vector.
 d := dualquat.Number{Real: quat.Number{Real: 1}, Dual: quat.Number{Imag: 2, Jmag: 1, Kmag: 3}}

 // Rotation in the real quaternion.
 r
 := dualquat.Number{Real: quat.Number{Real: 0, Imag: 1}}

 // Combine the rotation and displacement so
 // the displacement is performed first.
 q := dualquat.Mul(r, d)

 fmt.Println(dualquat.Mul(dualquat.Mul(q, p), dualquat.Conj(q)).Dual)

 // Output:
 //
 // (0+7i-6j-11k)
}

func Example_rotateAndDisplace() {
 // Rotate a point [3, 4, 5] by 180 around the x axis and then
 // displace by [4, 2, 6]

 // Point to be transformed in the dual imaginary vector.
 p := dualquat.Number{Real: quat.Number{Real: 1}, Dual: quat.Number{Imag: 3, Jmag: 4, Kmag: 5}}

 // Displacement vector, half [4, 2, 6], in the dual imaginary vector.
```

```
 d := dualquat.Number{Real: quat.Number{Real: 1}, Dual: quat.Number{Imag: 2, Jmag: 1, Kmag: 3}}

 // Rotation in the real quaternion.
 r := dualquat.Number{Real: quat.Number{Real: 0, Imag: 1}}

 // Combine the rotation and displacement so
 // the rotations is performed first.
 q := dualquat.Mul(d, r)

 fmt.Println(dualquat.Mul(dualquat.Mul(q, p), dualquat.Conj(q)).Dual)

 //
 Output:
 //
 // (0+7i-2j+1k)
}
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package testlapack

import (
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
)

type Dgerqfer interface {
 Dgerqf(m, n int, a []float64, lda int, tau, work []float64, lwork int)
}

func DgerqfTest(t *testing.T, impl Dgerqfer) {
 const tol = 1e-13

 rnd := rand.New(rand.NewSource(1))
 for c, test := range []struct {
  m, n, lda int
 }{
  {1, 1, 0},
  {2, 2, 0},
  {3, 2, 0},
  {2, 3, 0},
  {1, 12, 0},
  {2, 6, 0},
```

```
 {3, 4, 0},
 {4, 3, 0},
 {6, 2, 0},
 {12, 1, 0},
 {200, 180, 0},
 {180, 200, 0},
 {200, 200, 0},
 {1, 1, 20},
 {2, 2, 20},
 {3, 2, 20},
 {2, 3, 20},
 {1, 12, 20},
 {2, 6, 20},
 {3, 4, 20},
 {4, 3, 20},
 {6, 2, 20},
 {12, 1, 20},
 {200, 180, 220},
 {180, 200, 220},
 {200, 200, 220},
} {
 n := test.n
 m := test.m
 lda := test.lda
 if lda == 0 {
  lda
= test.n
 }
 a := make([]float64, m*lda)
 for i := range a {
  a[i] = rnd.Float64()
 }
 aCopy := make([]float64, len(a))
 copy(aCopy, a)
 k := min(m, n)
 tau := make([]float64, k)
 for i := range tau {
  tau[i] = rnd.Float64()
 }
 work := []float64{0}
 impl.Dgerqf(m, n, a, lda, tau, work, -1)
 lwkopt := int(work[0])
 for _, wk := range []struct {
  name   string
  length int
 }{
  {name: "short", length: m},
  {name: "medium", length: lwkopt - 1},
```

```
 {name: "long", length: lwkopt},
} {
 if wk.length < max(1, m) {
  continue
 }
 lwork := wk.length
 work = make([]float64, lwork)
 for i := range work {
  work[i] = rnd.Float64()
 }
 copy(a, aCopy)
 impl.Dgerqf(m, n, a, lda, tau, work, lwork)

 // Test that the RQ factorization has completed successfully. Compute
 // Q based on the vectors.
 q := constructQ("RQ", m, n, a, lda, tau)

 // Check that Q is orthogonal.
 if !isOrthogonal(q) {
  t.Errorf("Case %v, Q not orthogonal", c)
 }
 //
Check that A = R * Q
 r := blas64.General{
  Rows:   m,
  Cols:   n,
  Stride: n,
  Data:   make([]float64, m*n),
 }
 for i := 0; i < m; i++ {
  off := m - n
  for j := max(0, i-off); j < n; j++ {
   r.Data[i*r.Stride+j] = a[i*lda+j]
  }
 }

 got := blas64.General{
  Rows:   m,
  Cols:   n,
  Stride: lda,
  Data:   make([]float64, m*lda),
 }
 blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, r, q, 0, got)
 want := blas64.General{
  Rows:   m,
  Cols:   n,
  Stride: lda,
  Data:   aCopy,
```

```
   }
   if !equalApproxGeneral(got, want, tol) {
    t.Errorf("Case %d, R*Q != a %s\ngot: %+v\nwant:%+v", c, wk.name, got, want)
   }
  }
 }
}
graph{strg}
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package gen

import (
 "testing"

 "gonum.org/v1/gonum/graph"
 "gonum.org/v1/gonum/graph/simple"
)

type duplication struct {
 UndirectedMutator
 addBackwards    bool
 addSelfLoop     bool
 addMultipleEdge bool
}

func (g *duplication) SetEdge(e graph.Edge) {
 switch {
 case e.From().ID() == e.To().ID():
  g.addSelfLoop = true
  return
 case e.From().ID() > e.To().ID():
  g.addBackwards = true
 case g.UndirectedMutator.HasEdgeBetween(e.From().ID(), e.To().ID()):
  g.addMultipleEdge = true
 }

 g.UndirectedMutator.SetEdge(e)
}

func TestDuplication(t *testing.T) {
 for n := 2; n <= 50; n++ {
  for alpha := 0.1; alpha <= 1; alpha += 0.1 {
   for delta := 0.; delta <= 1; delta += 0.2 {
    for sigma := 0.; sigma <= 1; sigma += 0.2 {
     g := &duplication{UndirectedMutator: simple.NewUndirectedGraph()}
```

```
    err := Duplication(g,
 n, delta, alpha, sigma, nil)
    if err != nil {
     t.Fatalf("unexpected error: n=%d, alpha=%v, delta=%v sigma=%v: %v", n, alpha, delta, sigma, err)
    }
    if g.addBackwards {
     t.Errorf("edge added with From.ID > To.ID: n=%d, alpha=%v, delta=%v sigma=%v", n, alpha, delta, sigma)
    }
    if g.addSelfLoop {
     t.Errorf("unexpected self edge: n=%d, alpha=%v, delta=%v sigma=%v", n, alpha, delta, sigma)
    }
    if g.addMultipleEdge {
     t.Errorf("unexpected multiple edge: n=%d, alpha=%v, delta=%v sigma=%v", n, alpha, delta, sigma)
    }
   }
  }
 }
}
graph{{SUBGRAPHE}{SUBGRAPHE}{SUBGRAPHE}{}{SUBGRAPHE}{SUBGRAPHE}{}}
graph{{Edd{{{{Edd}Edd}}Edd}Edd{{{{Edd}Edd}}}Edd}Edd}
graph{{{{Digraa}{Digraa{Digraa}{Digraa}Digrag}Digrag}}}
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package gonum

import (
 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
)

// Dlauu2 computes the product
//  U * U  if uplo is blas.Upper
//  L * L  if uplo is blas.Lower
// where U or L is stored in the upper or lower triangular part of A.
// Only the upper or lower triangle of the result is stored, overwriting
// the corresponding factor in A.
func (impl Implementation) Dlauu2(uplo blas.Uplo, n int, a []float64, lda int) {
 switch {
 case uplo != blas.Upper && uplo != blas.Lower:
  panic(badUplo)
 case n < 0:
  panic(nLT0)
 case lda < max(1, n):
  panic(badLdA)
 }
```

```
 // Quick return if possible.
 if n == 0 {
  return
 }

 if len(a) < (n-1)*lda+n {
  panic(shortA)
 }

 bi := blas64.Implementation()

 if uplo == blas.Upper {
  // Compute the product U*U.
  for i := 0; i < n; i++ {
   aii := a[i*lda+i]
   if i < n-1
  {
    a[i*lda+i] = bi.Ddot(n-i, a[i*lda+i:], 1, a[i*lda+i:], 1)
    bi.Dgemv(blas.NoTrans, i, n-i-1, 1, a[i+1:], lda, a[i*lda+i+1:], 1,
     aii, a[i:], lda)
   } else {
    bi.Dscal(i+1, aii, a[i:], lda)
   }
  }
 } else {
  // Compute the product L*L.
  for i := 0; i < n; i++ {
   aii := a[i*lda+i]
   if i < n-1 {
    a[i*lda+i] = bi.Ddot(n-i, a[i*lda+i:], lda, a[i*lda+i:], lda)
    bi.Dgemv(blas.Trans, n-i-1, i, 1, a[(i+1)*lda:], lda, a[(i+1)*lda+i:], lda,
     aii, a[i*lda:], 1)
   } else {
    bi.Dscal(i+1, aii, a[i*lda:], 1)
   }
  }
 }
}
graph{{{{dig{dig}dig{dig}}}}}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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// license that can be found in the LICENSE file.

package unit
```

```
import (
 "errors"
 "fmt"
 "math"
 "unicode/utf8"
)

// Area represents an area in square metres.
type Area float64

// Unit converts the Area to a *Unit
func (a Area) Unit() *Unit {
 return New(float64(a), Dimensions{
  LengthDim: 2,
 })
}

// Area allows Area to implement a Areaer interface
func (a Area) Area() Area {
 return a
}

// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (a *Area) From(u Uniter) error {
 if !DimensionsMatch(u, Area(0)) {
  *a = Area(math.NaN())
  return errors.New("Dimension mismatch")
 }
 *a = Area(u.Unit().Value())
 return nil
}

func (a Area) Format(fs fmt.State, c rune) {
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", a, float64(a))
   return
  }
  fallthrough
 case
 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " m^2"
  switch {
  case pOk && wOk:
```

```
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(a))
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(a))
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(a))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(a))
  }
  fmt.Fprint(fs, unit)
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g m^2)", c, a, float64(a))
 }
}
graph{{sub_}{sub_{sub_}}}
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package mathext

import "gonum.org/v1/gonum/mathext/internal/cephes"

// RegIncBeta returns the value of the regularized incomplete beta function
// I(x;a,b). It is defined as
//  I(x;a,b) = B(x;a,b) / B(a,b)
//          = (a+b) / ((a)*(b)) * int_0^x u^(a-1) * (1-u)^(b-1) du.
// The domain of definition is 0 <= x <= 1, and the parameters a and b must be positive.
// For other values of x, a, and b RegIncBeta will panic.
func RegIncBeta(a, b float64, x float64) float64 {
 return cephes.Incbet(a, b, x)
}

// InvRegIncBeta computes the inverse of the regularized incomplete beta function.
// It returns the x for which
//  y = I(x;a,b)
// The domain of definition is 0 <= y <= 1, and the parameters a and b must be
// positive. For other values of x, a, and b InvRegIncBeta will panic.
func InvRegIncBeta(a, b float64, y float64) float64
 {
 if y < 0 || y > 1 {
  panic("mathext: parameter out of range")
 }
 return cephes.Incbi(a, b, y)
}
graph{{d_}{d_}}
graph{stric9{stric4}stric9{stric4}{stric4}}
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```

```
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// Package f64 provides float64 vector primitives.
package f64 // import "gonum.org/v1/gonum/internal/asm/f64"
graph{{{{Digraa}{Digraa{Digraa}{}{Digraa{Digraa}{Digraa}Digrag}Digrag}Digrag}}}
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package fd

import (
 "testing"

 "gonum.org/v1/gonum/floats"
 "gonum.org/v1/gonum/mat"
)

func TestLaplacian(t *testing.T) {
 for cas, test := range hessianTestCases {
  // Modify the test cases where the formula is set.
  settings := test.settings
  if settings != nil && !settings.Formula.isZero() {
   settings.Formula = Forward2nd
  }

  n := len(test.x)
  got := Laplacian(test.h.Func, test.x, test.settings)
  hess := mat.NewSymDense(n, nil)
  test.h.Hess(hess, test.x)
  var want float64
  for i := 0; i < n; i++ {
   want += hess.At(i, i)
  }
  if !floats.EqualWithinAbsOrRel(got, want, test.tol, test.tol) {
   t.Errorf("Cas %d: Laplacian mismatch. got %v, want %v", cas, got, want)
  }

  // Test that concurrency works.
  if settings == nil {
   settings = &Settings{}
  }
  settings.Concurrent = true
  got2 := Laplacian(test.h.Func,
 test.x, settings)
  if !floats.EqualWithinAbsOrRel(got, got2, 1e-5, 1e-5) {
   t.Errorf("Cas %d: Laplacian mismatch. got %v, want %v", cas, got2, got)
  }
```

```
 }
}
graph{Di{{{{Di}}}Di}}
graph{{D_{{{D_{D_{D_}}}D_}}}}
graph{GR{GR{{GR{GR}}}}}
graph{g_{g_{g_}g_{g_}}}
graph{{{Stri}Stri}Stri}
graph{{DIGRAPHY}}
graph{SUBGRAP0{{SUBGRAP0{SUBGRAP0}}}}
graph{Sua{Sua}}
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// license that can be found in the LICENSE file.

package mat_test

import "gonum.org/v1/gonum/mat"

// FAO is a dataset extracted from Food and Agriculture Organization of the
// United Nations "FAO Statistical Pocketbook: World Food and Agriculture 2015".
// pp49-52.
var FAO = struct {
 Africa              *mat.Dense
 Asia                *mat.Dense
 LatinAmericaCaribbean *mat.Dense
 Oceania             *mat.Dense
}{
 Africa: mat.NewDense(21, 3, []float64{
  // 1990, 2000, 2014
  35.3, 38, 30.7, // Employment in agriculture (%)
  9.2, 20.3, 25.2, // Employment in agriculture, female (%)
  3163, 14718, 20667, // Energy consump, power irrigation (mln kWh)

  2597, 2717, 2903, // Dietary energy supply (kcal/pc/day)
  113, 116, 123, // Average dietary energy supply adequacy (%)
  58, 55, 52, // Dietary en supp, cereals/roots/tubers (%)
  18.6, 15, 10.8, // Prevalence of undernourishment
 (%)
  8832, 10241, 13915, // GDP per capita (US$, PPP)
  -0.4, -0.2, 50.7, // Cereal import dependency ratio (%)
  78.5, 83, 88.7, // Improved water source (% pop)

  // Production indices (2004-06=100)
  73, 90, 121, // Net food
  72, 89, 123, // Net crops
  82, 92, 123, // Cereals
  51, 77, 141, // Vegetable oils
  74, 94, 119, // Roots and tubers
```

```
 58, 86, 127, // Fruit and vegetables
 86, 93, 132, // Sugar
 76, 92, 115, // Livestock
 83, 89, 114, // Milk
 74, 91, 118, // Meat
 72, 92, 119, // Fish
},

Asia: mat.NewDense(21, 3, []float64{
 // 1990, 2000, 2014
 30.9, 24.5, 27.6, // Employment in agriculture (%)
 40.9, 29.4, 31.1, // Employment in agriculture, female (%)
 7614, 38316, 82411, // Energy consump, power irrigation (mln kWh)

 2320, 2402, 2581, // Dietary energy supply (kcal/pc/day)
 107, 110, 117, // Average dietary energy supply adequacy (%)
 66, 65, 63, // Dietary en supp, cereals/roots/tubers (%)
 27.6, 25.7, 19.8, // Prevalence of undernourishment
(%)
 3315, 3421, 4575, // GDP per capita (US$, PPP)
 25.9, 28.1, 42, // Cereal import dependency ratio (%)
 55.5, 61.1, 68.7, // Improved water source (% pop)

 // Production indices (2004-06=100)
 60, 82, 129, // Net food
 59, 82, 127, // Net crops
 66, 79, 131, // Cereals
 58, 79, 128, // Vegetable oils
 50, 80, 133, // Roots and tubers
 58, 82, 124, // Fruit and vegetables
 76, 94, 114, // Sugar
 65, 84, 126, // Livestock
 59, 77, 125, // Milk
 67, 87, 127, // Meat
 65, 90, 119, // Fish
},

LatinAmericaCaribbean: mat.NewDense(14, 3, []float64{
 // 1990, 2000, 2014
 19.5, 14.2, 15.8, // Employment in agriculture (%)
 13.7, 6.2, 7.6, // Employment in agriculture, female (%)

 2669, 2787, 3069, // Dietary energy supply (kcal/pc/day)
 117, 120, 129, // Average dietary energy supply adequacy (%)
 42, 41, 40, // Dietary en supp, cereals/roots/tubers (%)
 14.7, 12.1, 5.5, // Prevalence of undernourishment (%)
 9837, 10976, 13915, // GDP per capita (US$,
```

```
PPP)
 13, 12, 49.7, // Cereal import dependency ratio (%)
 85.1, 89.8, 94, // Improved water source (% pop)

 // Production indices (2004-06=100)
 60, 83, 129, // Net food
 64, 83, 131, // Net crops
 62, 88, 139, // Cereals
 58, 84, 123, // Livestock
 82, 107, 71, // Fish
},

Oceania: mat.NewDense(21, 3, []float64{
 // 1990, 2000, 2014
 6.2, 17.1, 3.8, // Employment in agriculture (%)
 4.5, 3.9, 4.4, // Employment in agriculture, female (%)
 415, 1028, 8667, // Energy consump, power irrigation (mln kWh)

 2454, 2436, 2542, // Dietary energy supply (kcal/pc/day)
 113, 112, 114, // Average dietary energy supply adequacy (%)
 49, 50, 48, // Dietary en supp, cereals/roots/tubers (%)
 15.7, 16.1, 14.2, // Prevalence of undernourishment (%)
 2269, 2536, 3110, // GDP per capita (US$, PPP)
 95.2, 95.9, 95.4, // Cereal import dependency ratio (%)
 49.7, 53.2, 55.5, // Improved water source (% pop)

 // Production indices (2004-06=100)
 72, 99, 116, // Net food
 69, 105,
126, // Net crops
 77, 113, 117, // Cereals
 41, 122, 215, // Vegetable oils
 80, 90, 110, // Roots and tubers
 66, 88, 104, // Fruit and vegetables
 70, 104, 71, // Sugar
 79, 97, 107, // Livestock
 56, 92, 113, // Milk
 79, 96, 105, // Meat
 51, 78, 85, // Fish
 },
}
graph{DiG{{{{DiG}DiG{DiG}}}DiG{DiG}}DiG}
graph{{DIG{{DIG}DIG}{DIG}DIG}}
graph{{{not not}noe not}{{noe not not}noe not}<>{{noe not not}noe}{{noe not not}noe}}
graph{Dig5}
graph{stri}
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```

```
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package distuv

import (
 "sort"
 "testing"

 "golang.org/x/exp/rand"
 "gonum.org/v1/gonum/floats"
)

func TestParetoProb(t *testing.T) {
 for _, test := range []struct {
  x, xm, alpha, want float64
 }{
  {0, 1, 1, 0},
  {0.5, 1, 1, 0},
  {1, 1, 1, 1.0},
  {1.5, 1, 1, 0.444444444444444},
  {2, 1, 1, 0.25},
  {2.5, 1, 1, 0.16},
  {3, 1, 1, 0.1111111111111111},
  {3.5, 1, 1, 0.081632653061224},
  {4, 1, 1, 0.0625},
  {4.5, 1, 1, 0.049382716049383},
  {5, 1, 1, 0.04},

  {0, 1, 2, 0},
  {0.5, 1, 2, 0},
  {1, 1, 2, 2},
  {1.5, 1, 2, 0.592592592592593},
  {2, 1, 2, 0.25},
  {2.5, 1, 2, 0.128},
  {3, 1, 2, 0.074074074074074},
  {3.5, 1, 2, 0.046647230320700},
  {4, 1, 2, 0.03125},
  {4.5, 1, 2, 0.021947873799726},
  {5, 1, 2, 0.016},

  {0, 1, 3, 0},
  {0.5, 1, 3, 0},
  {1, 1, 3, 3.0},
  {1.5, 1, 3, 0.592592592592593},
  {2, 1, 3,
 0.1875},
  {2.5, 1, 3, 0.0768},
  {3, 1, 3, 0.037037037037037},
```

```
  {3.5, 1, 3, 0.019991670137443},
  {4, 1, 3, 0.011718750000000},
  {4.5, 1, 3, 0.007315957933242},
  {5, 1, 3, 0.0048},
 } {
  pdf := Pareto{test.xm, test.alpha, nil}.Prob(test.x)
  if !floats.EqualWithinAbsOrRel(pdf, test.want, 1e-10, 1e-10) {
   t.Errorf("Pdf mismatch, x = %v, xm = %v, alpha = %v. Got %v, want %v", test.x, test.xm, test.alpha, pdf, test.want)
  }
 }
}

func TestParetoCDF(t *testing.T) {
 for _, test := range []struct {
  x, xm, alpha, want float64
 }{
  {0, 1, 1, 0},
  {0.5, 1, 1, 0},
  {1, 1, 1, 0},
  {1.5, 1, 1, 0.333333333333333},
  {2, 1, 1, 0.5},
  {2.5, 1, 1, 0.6},
  {3, 1, 1, 0.666666666666667},
  {3.5, 1, 1, 0.714285714285714},
  {4, 1, 1, 0.75},
  {4.5, 1, 1, 0.777777777777778},
  {5, 1, 1, 0.80},
  {5.5, 1, 1, 0.818181818181818},
  {6, 1, 1, 0.833333333333333},
  {6.5, 1, 1, 0.846153846153846},
  {7, 1, 1, 0.857142857142857},
  {7.5, 1, 1, 0.866666666666667},
  {8, 1, 1, 0.875},
  {8.5, 1, 1,
 0.882352941176471},
  {9, 1, 1, 0.888888888888889},
  {9.5, 1, 1, 0.894736842105263},
  {10, 1, 1, 0.90},

  {0, 1, 2, 0},
  {0.5, 1, 2, 0},
  {1, 1, 2, 0},
  {1.5, 1, 2, 0.555555555555556},
  {2, 1, 2, 0.75},
  {2.5, 1, 2, 0.84},
  {3, 1, 2, 0.888888888888889},
  {3.5, 1, 2, 0.918367346938776},
  {4, 1, 2, 0.9375},
```

```
  {4.5, 1, 2, 0.950617283950617},
  {5, 1, 2, 0.96},
  {5.5, 1, 2, 0.966942148760331},
  {6, 1, 2, 0.972222222222222},
  {6.5, 1, 2, 0.976331360946746},
  {7, 1, 2, 0.979591836734694},
  {7.5, 1, 2, 0.982222222222222},
  {8, 1, 2, 0.984375000000000},
  {8.5, 1, 2, 0.986159169550173},
  {9, 1, 2, 0.987654320987654},
  {9.5, 1, 2, 0.988919667590028},
  {10, 1, 2, 0.99},

  {0, 1, 3, 0},
  {0.5, 1, 3, 0},
  {1, 1, 3, 0},
  {1.5, 1, 3, 0.703703703703704},
  {2, 1, 3, 0.875},
  {2.5, 1, 3, 0.936},
  {3, 1, 3, 0.962962962962963},
  {3.5, 1, 3, 0.976676384839650},
  {4, 1, 3, 0.984375000000000},
  {4.5, 1, 3, 0.989026063100137},
  {5, 1, 3, 0.992},
  {5.5, 1, 3, 0.993989481592787},
  {6,
 1, 3, 0.995370370370370},
  {6.5, 1, 3, 0.996358670914884},
  {7, 1, 3, 0.997084548104956},
  {7.5, 1, 3, 0.997629629629630},
  {8, 1, 3, 0.998046875000000},
  {8.5, 1, 3, 0.998371667005903},
  {9, 1, 3, 0.998628257887517},
  {9.5, 1, 3, 0.998833649220003},
  {10, 1, 3, 0.999},
 } {
  cdf := Pareto{test.xm, test.alpha, nil}.CDF(test.x)
  if !floats.EqualWithinAbsOrRel(cdf, test.want, 1e-10, 1e-10) {
   t.Errorf("CDF mismatch, x = %v, xm = %v, alpha = %v. Got %v, want %v", test.x, test.xm, test.alpha, cdf,
test.want)
  }
 }
}

func TestPareto(t *testing.T) {
 src := rand.New(rand.NewSource(1))
 for i, p := range []Pareto{
  {1, 10, src},
```

```
  {1, 20, src},
 } {
  testPareto(t, p, i)
 }
}

func testPareto(t *testing.T, p Pareto, i int) {
 tol := 1e-2
 const n = 1e6
 const bins = 50
 x := make([]float64, n)
 generateSamples(x, p)
 sort.Float64s(x)

 testRandLogProbContinuous(t, i, 0, x, p, tol, bins)
 checkMean(t, i, x, p, tol)
 checkVarAndStd(t, i, x, p, tol)
 checkExKurtosis(t, i,
 x, p, 7e-2)
 checkProbContinuous(t, i, x, p, 1e-3)
}
graph{{{{{{{subGrn}subGr{subGrn}subGrc}{subGrc}{subGrn}}}}}}
graph{NU{{NU}NU}}
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graph{{{ST}ST}{ST}ST{ST}ST}
graph{/********/}
graph{Stt{Stt}Stt{{Stt}}}
graph{{SubGrh{{SubGr}}}SubGr}
graph{{digr{digr}}}
graph{{EdgU}{EdgW}{EdgU}{EdgU}{EdgW}{EdgW}}
graph{{SubGrt}{SubGrt}{SubGrh{{SubGrt}{SubGrt}{}}}}
graph{{SubGrap_{{SubGrap_}{SubGrap_}}}}
graph{{NOD}NOD}
graph<<>>{<<>>}
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// license that can be found in the LICENSE file.

package testlapack

import (
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
 "gonum.org/v1/gonum/floats"
```

```
 "gonum.org/v1/gonum/lapack"
)

type Dlarfter interface {
 Dgeqr2er
 Dlarft(direct lapack.Direct, store lapack.StoreV, n, k int, v []float64, ldv int, tau []float64, t []float64, ldt int)
}

func DlarftTest(t *testing.T, impl Dlarfter) {
 rnd := rand.New(rand.NewSource(1))
 for _, store := range []lapack.StoreV{lapack.ColumnWise, lapack.RowWise} {
  for _, direct := range []lapack.Direct{lapack.Forward, lapack.Backward} {
   for _, test := range []struct {
    m, n, ldv, ldt int
   }{
    {6, 6, 0, 0},
    {8, 6, 0, 0},
    {6, 8, 0, 0},
    {6, 6, 10, 15},
    {8, 6, 10, 15},
    {6, 8, 10, 15},
    {6, 6, 15, 10},
    {8, 6, 15, 10},
    {6, 8, 15, 10},
   } {
    // Generate
 a matrix
    m := test.m
    n := test.n
    lda := n
    if lda == 0 {
     lda = n
    }

    a := make([]float64, m*lda)
    for i := 0; i < m; i++ {
     for j := 0; j < lda; j++ {
      a[i*lda+j] = rnd.Float64()
     }
    }
    // Use dgeqr2 to find the v vectors
    tau := make([]float64, n)
    work := make([]float64, n)
    impl.Dgeqr2(m, n, a, lda, tau, work)

    // Construct H using these answers
    vMatTmp := extractVMat(m, n, a, lda, lapack.Forward, lapack.ColumnWise)
    vMat := constructVMat(vMatTmp, store, direct)
```

```
    v := vMat.Data
    ldv := vMat.Stride

    h := constructH(tau, vMat, store, direct)

    k := min(m, n)
    ldt := test.ldt
    if ldt == 0 {
     ldt = k
    }
    // Find T from the actual function
    tm := make([]float64, k*ldt)
    for i := range tm {
     tm[i] = 100 + rnd.Float64()
    }
    // The v data has been put into a.
    impl.Dlarft(direct, store, m, k, v, ldv, tau, tm, ldt)

    tData := make([]float64, len(tm))
    copy(tData, tm)
    if
direct == lapack.Forward {
     // Zero out the lower traingular portion.
     for i := 0; i < k; i++ {
      for j := 0; j < i; j++ {
       tData[i*ldt+j] = 0
      }
     }
    } else {
     // Zero out the upper traingular portion.
     for i := 0; i < k; i++ {
      for j := i + 1; j < k; j++ {
       tData[i*ldt+j] = 0
      }
     }
    }

    T := blas64.General{
     Rows:   k,
     Cols:   k,
     Stride: ldt,
     Data:   tData,
    }

    vMatT := blas64.General{
     Rows:   vMat.Cols,
     Cols:   vMat.Rows,
     Stride: vMat.Rows,
```

```
 Data:   make([]float64, vMat.Cols*vMat.Rows),
}
for i := 0; i < vMat.Rows; i++ {
 for j := 0; j < vMat.Cols; j++ {
  vMatT.Data[j*vMatT.Stride+i] = vMat.Data[i*vMat.Stride+j]
 }
}
var comp blas64.General
if store == lapack.ColumnWise {
 // H = I - V * T * V
 tmp := blas64.General{
  Rows:   T.Rows,
  Cols:   vMatT.Cols,
  Stride: vMatT.Cols,
  Data:   make([]float64, T.Rows*vMatT.Cols),
 }
 //
T * V
 blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, T, vMatT, 0, tmp)
 comp = blas64.General{
  Rows:   vMat.Rows,
  Cols:   tmp.Cols,
  Stride: tmp.Cols,
  Data:   make([]float64, vMat.Rows*tmp.Cols),
 }
 // V * (T * V)
 blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, vMat, tmp, 0, comp)
} else {
 // H = I - V * T * V
 tmp := blas64.General{
  Rows:   T.Rows,
  Cols:   vMat.Cols,
  Stride: vMat.Cols,
  Data:   make([]float64, T.Rows*vMat.Cols),
 }
 // T * V
 blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, T, vMat, 0, tmp)
 comp = blas64.General{
  Rows:   vMatT.Rows,
  Cols:   tmp.Cols,
  Stride: tmp.Cols,
  Data:   make([]float64, vMatT.Rows*tmp.Cols),
 }
 // V * (T * V)
 blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, vMatT, tmp, 0, comp)
}
// I - V * T * V
for i := 0; i < comp.Rows; i++ {
```

```
     for j := 0; j < comp.Cols; j++ {
      comp.Data[i*m+j] *= -1
      if
 i == j {
       comp.Data[i*m+j] += 1
      }
     }
    }
    if !floats.EqualApprox(comp.Data, h.Data, 1e-14) {
     t.Errorf("T does not construct proper H. Store = %v, Direct = %v.\nWant %v\ngot %v.", string(store), string(direct),
h.Data, comp.Data)
    }
   }
  }
 }
}
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// license that can be found in the LICENSE file.

package gonum

import (
 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/lapack"
)

// Dormlq multiplies the matrix C by the orthogonal matrix Q defined by the
// slices a and tau. A and tau are as returned from Dgelqf.
//  C = Q * C   if side == blas.Left and trans == blas.NoTrans
//  C = Q * C  if side == blas.Left and trans == blas.Trans
//  C = C * Q   if side == blas.Right and trans == blas.NoTrans
//  C = C * Q  if side == blas.Right and trans == blas.Trans
// If side == blas.Left, A is a matrix of side km, and if side == blas.Right
// A is of size kn. This uses a blocked algorithm.
//
// work is temporary storage, and lwork specifies the usable memory length.
// At minimum, lwork >= m if side == blas.Left and lwork >= n if side == blas.Right,
// and this function will panic otherwise.
// Dormlq uses a block algorithm, but
 the block size is limited
// by the temporary space available. If lwork == -1, instead of performing Dormlq,
// the optimal work length will be stored into work[0].
//
// tau contains the Householder scales and must have length at least k, and
// this function will panic otherwise.
func (impl Implementation) Dormlq(side blas.Side, trans blas.Transpose, m, n, k int, a []float64, lda int, tau, c
[]float64, ldc int, work []float64, lwork int) {
```

```
left := side == blas.Left
nw := m
if left {
 nw = n
}
switch {
case !left && side != blas.Right:
 panic(badSide)
case trans != blas.Trans && trans != blas.NoTrans:
 panic(badTrans)
case m < 0:
 panic(mLT0)
case n < 0:
 panic(nLT0)
case k < 0:
 panic(kLT0)
case left && k > m:
 panic(kGTM)
case !left && k > n:
 panic(kGTN)
case left && lda < max(1, m):
 panic(badLdA)
case !left && lda < max(1, n):
 panic(badLdA)
case lwork < max(1, nw) && lwork != -1:
 panic(badLWork)
case len(work) < max(1, lwork):
 panic(shortWork)
}

//
Quick return if possible.
if m == 0 || n == 0 || k == 0 {
 work[0] = 1
 return
}

const (
 nbmax = 64
 ldt   = nbmax
 tsize = nbmax * ldt
)
opts := string(side) + string(trans)
nb := min(nbmax, impl.Ilaenv(1, "DORMLQ", opts, m, n, k, -1))
lworkopt := max(1, nw)*nb + tsize
if lwork == -1 {
 work[0] = float64(lworkopt)
 return
```

```
}

switch {
case left && len(a) < (k-1)*lda+m:
 panic(shortA)
case !left && len(a) < (k-1)*lda+n:
 panic(shortA)
case len(tau) < k:
 panic(shortTau)
case len(c) < (m-1)*ldc+n:
 panic(shortC)
}

nbmin := 2
if 1 < nb && nb < k {
 iws := nw*nb + tsize
 if lwork < iws {
  nb = (lwork - tsize) / nw
  nbmin = max(2, impl.Ilaenv(2, "DORMLQ", opts, m, n, k, -1))
 }
}
if nb < nbmin || k <= nb {
 // Call unblocked code.
 impl.Dorml2(side, trans, m, n, k, a, lda, tau, c, ldc, work)
 work[0] = float64(lworkopt)
 return
}

t := work[:tsize]
wrk := work[tsize:]
ldwrk := nb

notrans := trans == blas.NoTrans
transt := blas.NoTrans
if
notrans {
 transt = blas.Trans
}

switch {
case left && notrans:
 for i := 0; i < k; i += nb {
  ib := min(nb, k-i)
  impl.Dlarft(lapack.Forward, lapack.RowWise, m-i, ib,
   a[i*lda+i:], lda,
   tau[i:],
   t, ldt)
  impl.Dlarfb(side, transt, lapack.Forward, lapack.RowWise, m-i, n, ib,
```

```
   a[i*lda+i:], lda,
   t, ldt,
   c[i*ldc:], ldc,
   wrk, ldwrk)
  }

 case left && !notrans:
  for i := ((k - 1) / nb) * nb; i >= 0; i -= nb {
   ib := min(nb, k-i)
   impl.Dlarft(lapack.Forward, lapack.RowWise, m-i, ib,
    a[i*lda+i:], lda,
    tau[i:],
    t, ldt)
   impl.Dlarfb(side, transt, lapack.Forward, lapack.RowWise, m-i, n, ib,
    a[i*lda+i:], lda,
    t, ldt,
    c[i*ldc:], ldc,
    wrk, ldwrk)
  }

 case !left && notrans:
  for i := ((k - 1) / nb) * nb; i >= 0; i -= nb {
   ib := min(nb, k-i)
   impl.Dlarft(lapack.Forward, lapack.RowWise, n-i, ib,
    a[i*lda+i:], lda,
    tau[i:],
    t, ldt)
   impl.Dlarfb(side, transt, lapack.Forward, lapack.RowWise, m, n-i, ib,
    a[i*lda+i:],
 lda,
    t, ldt,
    c[i:], ldc,
    wrk, ldwrk)
  }

 case !left && !notrans:
  for i := 0; i < k; i += nb {
   ib := min(nb, k-i)
   impl.Dlarft(lapack.Forward, lapack.RowWise, n-i, ib,
    a[i*lda+i:], lda,
    tau[i:],
    t, ldt)
   impl.Dlarfb(side, transt, lapack.Forward, lapack.RowWise, m, n-i, ib,
    a[i*lda+i:], lda,
    t, ldt,
    c[i:], ldc,
    wrk, ldwrk)
  }
```

```
 }
 work[0] = float64(lworkopt)
}
graph{"\\\\\\\\\\\\\\\\\\\"}
graph{{{{Subgi{Subgc}}Subgi}Subgi{Subgc}}}
graph{{{SUBGRAPR}{SUBGRAPR}}{SUBGRAPR{{SUBGRAPR}{SUBGRAPR}}SUBGRAPR}}
graph{"\\""\\""\\""\\""\""""\\""\\"}
graph{{strictI}strictI}
graph{ed}
graph{{{{G}G}}}
graph{{GRAPHe}GRAPHe{GRAPHe}}
graph{STRI{STRI{STRI{STRI}{STRI{STRI}STRI}STRI}}{STRI{STRI}STRI}STRI}
graph{{o o q}}
graph{{DIGRAe}{DIGRAe{DIGRAe}}DIGRAe}
graph{{{gr}gr}gr{{gr}gr}}
digraph{E->E->E->E}
graph{{{{digra4}{digra4}digra4{digra4}{digra4}{digra4}}}}
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// license that can be found in the LICENSE file.

package distmv

import (
 "math"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/floats"
 "gonum.org/v1/gonum/mat"
 "gonum.org/v1/gonum/stat/distuv"
)

// Dirichlet implements the Dirichlet probability distribution.
//
// The Dirichlet distribution is a continuous probability distribution that
// generates elements over the probability simplex, i.e. ||x||_1 = 1. The Dirichlet
// distribution is the conjugate prior to the categorical distribution and the
// multivariate version of the beta distribution. The probability of a point x is
//  1/Beta() \prod_i x_i^(_i - 1)
// where Beta() is the multivariate Beta function (see the mathext package).
//
// For more information see https://en.wikipedia.org/wiki/Dirichlet_distribution
type Dirichlet struct {
 alpha []float64
 dim   int
 src   rand.Source
```

```
 lbeta    float64
 sumAlpha float64
}

//
 NewDirichlet creates a new dirichlet distribution with the given parameters alpha.
// NewDirichlet will panic if len(alpha) == 0, or if any alpha is <= 0.
func NewDirichlet(alpha []float64, src rand.Source) *Dirichlet {
 dim := len(alpha)
 if dim == 0 {
  panic(badZeroDimension)
 }
 for _, v := range alpha {
  if v <= 0 {
   panic("dirichlet: non-positive alpha")
  }
 }
 a := make([]float64, len(alpha))
 copy(a, alpha)
 d := &Dirichlet{
  alpha: a,
  dim:   dim,
  src:   src,
 }
 d.lbeta, d.sumAlpha = d.genLBeta(a)
 return d
}

// CovarianceMatrix calculates the covariance matrix of the distribution,
// storing the result in dst. Upon return, the value at element {i, j} of the
// covariance matrix is equal to the covariance of the i^th and j^th variables.
//  covariance(i, j) = E[(x_i - E[x_i])(x_j - E[x_j])]
// If the dst matrix is empty it will be resized to the correct dimensions,
// otherwise dst must match the dimension of the receiver or CovarianceMatrix
// will panic.
func
 (d *Dirichlet) CovarianceMatrix(dst *mat.SymDense) {
 if dst.IsEmpty() {
  *dst = *(dst.GrowSym(d.dim).(*mat.SymDense))
 } else if dst.Symmetric() != d.dim {
  panic("dirichelet: input matrix size mismatch")
 }
 scale := 1 / (d.sumAlpha * d.sumAlpha * (d.sumAlpha + 1))
 for i := 0; i < d.dim; i++ {
  ai := d.alpha[i]
  v := ai * (d.sumAlpha - ai) * scale
  dst.SetSym(i, i, v)
  for j := i + 1; j < d.dim; j++ {
```

```
  aj := d.alpha[j]
  v := -ai * aj * scale
  dst.SetSym(i, j, v)
 }
}
}

// genLBeta computes the generalized LBeta function.
func (d *Dirichlet) genLBeta(alpha []float64) (lbeta, sumAlpha float64) {
 for _, alpha := range d.alpha {
  lg, _ := math.Lgamma(alpha)
  lbeta += lg
  sumAlpha += alpha
 }
 lg, _ := math.Lgamma(sumAlpha)
 return lbeta - lg, sumAlpha
}

// Dim returns the dimension of the distribution.
func (d *Dirichlet) Dim() int {
 return d.dim
}

// LogProb computes the log of the pdf of the point x.
//
// It does not check that ||x||_1 = 1.
func (d *Dirichlet)
 LogProb(x []float64) float64 {
 dim := d.dim
 if len(x) != dim {
  panic(badSizeMismatch)
 }
 var lprob float64
 for i, x := range x {
  lprob += (d.alpha[i] - 1) * math.Log(x)
 }
 lprob -= d.lbeta
 return lprob
}

// Mean returns the mean of the probability distribution at x. If the
// input argument is nil, a new slice will be allocated, otherwise the result
// will be put in-place into the receiver.
func (d *Dirichlet) Mean(x []float64) []float64 {
 x = reuseAs(x, d.dim)
 copy(x, d.alpha)
 floats.Scale(1/d.sumAlpha, x)
 return x
```

```
}

// Prob computes the value of the probability density function at x.
func (d *Dirichlet) Prob(x []float64) float64 {
 return math.Exp(d.LogProb(x))
}

// Rand generates a random number according to the distributon.
// If the input slice is nil, new memory is allocated, otherwise the result is stored
// in place.
func (d *Dirichlet) Rand(x []float64) []float64 {
 x = reuseAs(x, d.dim)
 for i := range x {
  x[i] = distuv.Gamma{Alpha: d.alpha[i], Beta:
 1, Src: d.src}.Rand()
 }
 sum := floats.Sum(x)
 floats.Scale(1/sum, x)
 return x
}
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package quat

import (
 "math"
 "testing"
)

var inf = math.Inf(1)

var infTests = []struct {
 q    Number
 want bool
}{
 {q: Inf(), want: true},
 {q: Number{Real: inf, Imag: inf, Jmag: inf, Kmag: inf}, want: true},
 {q: Number{Real: -inf, Imag: -inf, Jmag: -inf, Kmag: -inf}, want: true},
 {q: Number{Real: inf, Imag: nan, Jmag: nan, Kmag: nan}, want: true},
 {q: Number{Real: nan, Imag: inf, Jmag: nan, Kmag: nan}, want: true},
 {q: Number{Real: nan, Imag: nan, Jmag: inf, Kmag: nan}, want: true},
 {q: Number{Real: nan, Imag: nan, Jmag: nan, Kmag: inf}, want: true},
 {q: Number{Real: -inf, Imag: nan, Jmag: nan, Kmag: nan}, want: true},
 {q: Number{Real: nan, Imag: -inf, Jmag: nan, Kmag: nan}, want: true},
 {q: Number{Real: nan, Imag: nan, Jmag: -inf, Kmag: nan}, want: true},
 {q: Number{Real: nan, Imag: nan, Jmag: nan, Kmag: -inf},
```

```
 want: true},
 {q: Number{Real: inf}, want: true},
 {q: Number{Imag: inf}, want: true},
 {q: Number{Jmag: inf}, want: true},
 {q: Number{Kmag: inf}, want: true},
 {q: Number{Real: -inf}, want: true},
 {q: Number{Imag: -inf}, want: true},
 {q: Number{Jmag: -inf}, want: true},
 {q: Number{Kmag: -inf}, want: true},
 {q: Number{}, want: false},
}

func TestIsInf(t *testing.T) {
 for _, test := range infTests {
  got := IsInf(test.q)
  if got != test.want {
   t.Errorf("unexpected result for IsInf(%v): got:%t want:%t", test.q, got, test.want)
  }
 }
}
graph{{{{s}s}s}s}
graph{{sub_}}
image: debian/testing
packages:
- clang
- cmake
- python
- autoconf
- libxml2-dev
- libssl-dev
- libz-dev
- llvm-dev # for cctools
- uuid-dev ## for cctools
- libplist-utils # for gogio
- golang
sources:
- git@git.sr.ht:~eliasnaur/applesdks
- https://git.sr.ht/~eliasnaur/gio
- https://git.sr.ht/~eliasnaur/giouiorg
- https://github.com/tpoechtrager/cctools-port.git
- https://github.com/tpoechtrager/apple-libtapi.git
- https://github.com/mackyle/xar.git
environment:
  APPLE_TOOLCHAIN_ROOT: /home/build/appletools
  PATH: /home/build/go/bin:/usr/bin
secrets:
- 6363dfe0-15d9-4bd2-88a5-ae53243568c9
tasks:
```

```
- prepare_toolchain: |
    mkdir -p $APPLE_TOOLCHAIN_ROOT
    cd $APPLE_TOOLCHAIN_ROOT
    tar xJf /home/build/applesdks/applesdks.tar.xz
    mkdir bin tools
    cd bin
    ln -s ../toolchain/bin/x86_64-apple-darwin19-ld ld
    ln -s ../toolchain/bin/x86_64-apple-darwin19-ar ar
    ln -s /home/build/cctools-port/cctools/misc/lipo lipo
    ln -s ../tools/appletoolchain
 xcrun
    ln -s /usr/bin/plistutil plutil
    cd ../tools
    ln -s appletoolchain clang-ios
    ln -s appletoolchain clang-macos
- install_gogio: |
    cd gio/cmd
    go install ./gogio
- install_appletoolchain: |
    cd giouiorg
    go build -o $APPLE_TOOLCHAIN_ROOT/tools ./cmd/appletoolchain
- build_xar: |
    cd xar/xar
    ac_cv_lib_crypto_OpenSSL_add_all_ciphers=yes CC=clang ./autogen.sh --prefix=/usr
    make
    sudo make install
- build_libtapi: |
    cd apple-libtapi
    INSTALLPREFIX=$APPLE_TOOLCHAIN_ROOT/libtapi ./build.sh
    ./install.sh
- build_cctools: |
    cd cctools-port/cctools
    ./configure --prefix $APPLE_TOOLCHAIN_ROOT/toolchain --with-
libtapi=$APPLE_TOOLCHAIN_ROOT/libtapi --target=x86_64-apple-darwin19
    make install
- test_macos: |
    cd gio/example
    export PATH=/home/build/appletools/bin:$PATH
    CC=$APPLE_TOOLCHAIN_ROOT/tools/clang-macos CGO_CFLAGS="--sysroot
$APPLE_TOOLCHAIN_ROOT/MacOSX.sdk -arch x86_64" CGO_LDFLAGS="--sysroot
 $APPLE_TOOLCHAIN_ROOT/MacOSX.sdk -arch x86_64" GOOS=darwin CGO_ENABLED=1 go build -o
/dev/null ./kitchen
- test_ios: |
    cd gio/example
    export PATH=/home/build/appletools/bin:$PATH
    gogio -target ios -o app.app ./kitchen
graph{Sub}
```

```
graph{NoN{NoR{NoR}NoR{NoR}NoR}}
graph{Gr_}
graph{{SUBGRA0{{SUBGRA0}}}}
graph{{GRAr}}
Graph{SubgrK{{{{SubgrN}{SubgrN}SubgrN}{SubgrN}}}}
graph{Edgh{Edgh{Edgr}{Edgr}}Edgh{Edgr}}
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// license that can be found in the LICENSE file.

package optimize

import (
 "math"

 "gonum.org/v1/gonum/stat/distmv"
)

var _ Method = (*GuessAndCheck)(nil)

// GuessAndCheck is a global optimizer that evaluates the function at random
// locations. Not a good optimizer, but useful for comparison and debugging.
type GuessAndCheck struct {
 Rander distmv.Rander

 bestF float64
 bestX []float64
}

func (*GuessAndCheck) Uses(has Available) (uses Available, err error) {
 return has.function()
}

func (g *GuessAndCheck) Init(dim, tasks int) int {
 if dim <= 0 {
  panic(nonpositiveDimension)
 }
 if tasks < 0 {
  panic(negativeTasks)
 }
 g.bestF = math.Inf(1)
 g.bestX = resize(g.bestX, dim)
 return tasks
}

func (g *GuessAndCheck) sendNewLoc(operation chan<- Task, task Task) {
 g.Rander.Rand(task.X)
 task.Op = FuncEvaluation
```

```
 operation <- task
}

func (g *GuessAndCheck) updateMajor(operation
 chan<- Task, task Task) {
 // Update the best value seen so far, and send a MajorIteration.
 if task.F < g.bestF {
  g.bestF = task.F
  copy(g.bestX, task.X)
 } else {
  task.F = g.bestF
  copy(task.X, g.bestX)
 }
 task.Op = MajorIteration
 operation <- task
}

func (g *GuessAndCheck) Run(operation chan<- Task, result <-chan Task, tasks []Task) {
 // Send initial tasks to evaluate
 for _, task := range tasks {
  g.sendNewLoc(operation, task)
 }

 // Read from the channel until PostIteration is sent.
Loop:
 for {
  task := <-result
  switch task.Op {
  default:
   panic("unknown operation")
  case PostIteration:
   break Loop
  case MajorIteration:
   g.sendNewLoc(operation, task)
  case FuncEvaluation:
   g.updateMajor(operation, task)
  }
 }

 // PostIteration was sent. Update the best new values.
 for task := range result {
  switch task.Op {
  default:
   panic("unknown operation")
  case MajorIteration:
  case FuncEvaluation:
   g.updateMajor(operation, task)
  }
```

```
 }
 close(operation)
}
graph{ED{ED{ED}ED}ED{ED}ED{ED{ED}ED}}
graph{strn}
graph{{e_{e_}}}
graph{{noU{noU}noU}noO{noU{noU}}}
graph{{GRAP}GRAP{{GRAP}}GRAP}
graph{{{digra}dig{{{dig}}}}digz{{{dig}}dig{{dig}}}}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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// license that can be found in the LICENSE file.

package unit

import (
 "errors"
 "fmt"
 "math"
 "unicode/utf8"
)

// EquivalentRadioactiveDose is a measure of equivalent dose of ionizing radiation in sieverts.
type EquivalentRadioactiveDose float64

const Sievert EquivalentRadioactiveDose = 1

// Unit converts the EquivalentRadioactiveDose to a *Unit
func (a EquivalentRadioactiveDose) Unit() *Unit {
 return New(float64(a), Dimensions{
  LengthDim: 2,
  TimeDim:   -2,
 })
}

// EquivalentRadioactiveDose allows EquivalentRadioactiveDose to implement a EquivalentRadioactiveDoseer
interface
func (a EquivalentRadioactiveDose) EquivalentRadioactiveDose() EquivalentRadioactiveDose {
 return a
}

// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (a
 *EquivalentRadioactiveDose) From(u Uniter) error {
 if !DimensionsMatch(u, Sievert) {
```

```
  *a = EquivalentRadioactiveDose(math.NaN())
  return errors.New("Dimension mismatch")
 }
 *a = EquivalentRadioactiveDose(u.Unit().Value())
 return nil
}

func (a EquivalentRadioactiveDose) Format(fs fmt.State, c rune) {
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", a, float64(a))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " Sy"
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(a))
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(a))
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(a))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(a))
  }
  fmt.Fprint(fs, unit)
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g Sy)", c, a, float64(a))
 }
}
# Gonum optimize
[![GoDoc](https://godoc.org/gonum.org/v1/gonum/optimize?status.svg)](https://godoc.org/gonum.org/v1/gonum/op
timize)

Package optimize is an optimization package for the Go language.
graph{{Digra{}Digra}}
graph{nw:nw K:nw nw:nw nw:nw K:nw nw:nw}
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// Package topo provides graph topology analysis functions.
package topo // import "gonum.org/v1/gonum/graph/topo"
```

```
graph{Sua}
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package gonum

import (
 "testing"

 "gonum.org/v1/gonum/lapack/testlapack"
)

func BenchmarkDgeev(b *testing.B) { testlapack.DgeevBenchmark(b, impl) }
graph{{{{EDG_}EDG_}}}
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package kdtree_test

import (
 "fmt"
 "math"

 "gonum.org/v1/gonum/spatial/kdtree"
)

func ExampleTree() {
 // Example data from https://en.wikipedia.org/wiki/K-d_tree
 points := kdtree.Points{{2, 3}, {5, 4}, {9, 6}, {4, 7}, {8, 1}, {7, 2}}

 t := kdtree.New(points, false)
 q := kdtree.Point{8, 7}
 p, d := t.Nearest(q)
 fmt.Printf("%v is closest point to %v, d=%f\n", p, q, math.Sqrt(d))
 // Output:
 // [9 6] is closest point to [8 7], d=1.414214
}

func ExampleTree_bounds() {
 // Example data from https://en.wikipedia.org/wiki/K-d_tree
 points := kdtree.Points{{2, 3}, {5, 4}, {9, 6}, {4, 7}, {8, 1}, {7, 2}}

 t := kdtree.New(points, true)
 fmt.Printf("Bounding box of points is %+v\n", t.Root.Bounding)
 // Output:
 // Bounding box of points is &{Min:[2 1] Max:[9 7]}
```

```
}

func ExampleTree_Do() {
 // Example data from https://en.wikipedia.org/wiki/K-d_tree
 points
 := kdtree.Points{{2, 3}, {5, 4}, {9, 6}, {4, 7}, {8, 1}, {7, 2}}

 // Print all points in the data set within 3 of (3, 5).
 t := kdtree.New(points, false)
 q := kdtree.Point{3, 5}
 t.Do(func(c kdtree.Comparable, _ *kdtree.Bounding, _ int) (done bool) {
  // Compare each distance and output points
  // with a Euclidean distance less than 3.
  // Distance returns the square of the
  // Euclidean distance between points.
  if q.Distance(c) <= 3*3 {
   fmt.Println(c)
  }
  return
 })
 // Unordered output:
 // [2 3]
 // [4 7]
 // [5 4]
}

func ExampleTree_DoBounded() {
 // Example data from https://en.wikipedia.org/wiki/K-d_tree
 points := kdtree.Points{{2, 3}, {5, 4}, {9, 6}, {4, 7}, {8, 1}, {7, 2}}

 // Find all points within the bounding box ((3, 3), (6, 8))
 // and print them with their bounding boxes and tree depth.
 t := kdtree.New(points, true) // Construct tree with bounding boxes.
 b := &kdtree.Bounding{
  Min: kdtree.Point{3, 3},
  Max: kdtree.Point{6,
 8},
 }
 t.DoBounded(b, func(c kdtree.Comparable, bound *kdtree.Bounding, depth int) (done bool) {
  fmt.Printf("p=%v bound=%+v depth=%d\n", c, bound, depth)
  return
 })
 // Output:
 // p=[5 4] bound=&{Min:[2 3] Max:[5 7]} depth=1
 // p=[4 7] bound=&{Min:[4 7] Max:[4 7]} depth=2
}
graph{DIGS}
```

```
graph{diGra_[diGra_=""]}
graph{{{{Digra9}}Digra5}Digra9}
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package gonum

import (
 "gonum.org/v1/gonum/internal/asm/f64"
)

// Ddot computes the dot product of the two vectors
//  \sum_i x[i]*y[i]
func (Implementation) Ddot(n int, x []float64, incX int, y []float64, incY int) float64 {
 if incX == 0 {
  panic(zeroIncX)
 }
 if incY == 0 {
  panic(zeroIncY)
 }
 if n <= 0 {
  if n == 0 {
   return 0
  }
  panic(nLT0)
 }
 if incX == 1 && incY == 1 {
  if len(x) < n {
   panic(shortX)
  }
  if len(y) < n {
   panic(shortY)
  }
  return f64.DotUnitary(x[:n], y[:n])
 }
 var ix, iy int
 if incX < 0 {
  ix = (-n + 1) * incX
 }
 if incY < 0 {
  iy = (-n + 1) * incY
 }
 if ix >= len(x) || ix+(n-1)*incX >= len(x) {
  panic(shortX)
 }
 if iy >= len(y) || iy+(n-1)*incY >= len(y) {
  panic(shortY)
```

```
 }
 return f64.DotInc(x, y, uintptr(n), uintptr(incX), uintptr(incY), uintptr(ix), uintptr(iy))
}
graph{{{{Digra9}}Digra5}}
digraph {
 A [name="hello world"]
}
graph{DIGR}
graph{Subgra{}Subgra}
graph{{{gr}gr}}
digraph{ea}
graph{NODEG}
graph{GRAP0{GRAP1}GRAP0{}GRAP0{GRAP1}GRAP9}
Graph{Sun{Sur{Sur}{Sur}{Sun{{Sun{Sur{Sur}{Sur}{Sun{Sur}}}}Sur}}}}
graph{"\
"""\
"""\
"""\
"""\
"""\
"}
graph{{{di}di}}
Graph{{{Subgr}}}
# Gonum matrix
[![GoDoc](https://godoc.org/gonum.org/v1/gonum/mat?status.svg)](https://godoc.org/gonum.org/v1/gonum/mat)

Package mat is a matrix package for the Go language.
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package optimize_test

import (
 "fmt"
 "log"

 "gonum.org/v1/gonum/optimize"
 "gonum.org/v1/gonum/optimize/functions"
)

func ExampleMinimize() {
 p := optimize.Problem{
  Func: functions.ExtendedRosenbrock{}.Func,
  Grad: functions.ExtendedRosenbrock{}.Grad,
 }

 x := []float64{1.3, 0.7, 0.8, 1.9, 1.2}
```

```
 result, err := optimize.Minimize(p, x, nil, nil)
 if err != nil {
  log.Fatal(err)
 }
 if err = result.Status.Err(); err != nil {
  log.Fatal(err)
 }
 fmt.Printf("result.Status: %v\n", result.Status)
 fmt.Printf("result.X: %0.4g\n", result.X)
 fmt.Printf("result.F: %0.4g\n", result.F)
 fmt.Printf("result.Stats.FuncEvaluations: %d\n", result.Stats.FuncEvaluations)
 // Output:
 // result.Status: GradientThreshold
 // result.X: [1 1 1 1 1]
 // result.F: 4.98e-30
 // result.Stats.FuncEvaluations: 31
}
graph{graphh{graphe}}
graph{{SubGr_}{SubGr_}{SubGr_}}
graph{SUBGRA0{{SUBGRA5{SUBGRA0}}}}
graph{subGra9}
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package cmplx64

// Conj returns the complex conjugate of x.
func Conj(x complex64) complex64 { return complex(real(x), -imag(x)) }
graph{{{Strict}}}
graph{di9{{di9{di9}{di9{{di9{di9}di3}}}}}}
graph{{edd{eda{edc}}}}
graph{{GRAP}}
graph{""}
graph{{{subgr{}subgr}}}
Graph{Sun{Sur{Sun{Sur}}}}
graph{{DiGrag}{DiGrag}}
graph{{dig{{dig{dig}}dig{dig{dig}}}}}
digraph{""""{k[e=e][e=e]}{k[e=m]""[l=""]""""[l=""]""[l=""][e=n]""[l=""][e=m]""[l=""]""""[l=""]""[l=""]}->P->P-
>P->DP->E->F->G->H->I->J->K->L->M->N->O->P->Q->R->S->T->U->V->W->X->Y->Z{k[e=e][e=n]}->m->n-
>m->n->m->n->m->n->m->n->m->n->m->n->m->n->m->n->m->n->m->n->m->n->m->n->m->n->m->n->m->n-
>m->n->m->n->m->n->m->n->m->n->m->n->m->n->m->n->m->n->m->n}
graph{{digrai}}
```

```
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package multi

import "gonum.org/v1/gonum/graph"

// Node here is a duplication of simple.Node
// to avoid needing to import both packages.

// Node is a simple graph node.
type Node int64

// ID returns the ID number of the node.
func (n Node) ID() int64 {
 return int64(n)
}

// Edge is a collection of multigraph edges sharing end points.
type Edge struct {
 F, T graph.Node

 graph.Lines
}

// From returns the from-node of the edge.
func (e Edge) From() graph.Node { return e.F }

// To returns the to-node of the edge.
func (e Edge) To() graph.Node { return e.T }

// ReversedEdge returns a new Edge with the F and T fields
// swapped.
func (e Edge) ReversedEdge() graph.Edge { return Edge{F: e.T, T: e.F} }

// Line is a multigraph edge.
type Line struct {
 F, T graph.Node

 UID int64
}

// From returns the from-node of the line.
func
 (l Line) From() graph.Node { return l.F }

// To returns the to-node of the line.
```

```
func (l Line) To() graph.Node { return l.T }

// ReversedLine returns a new Line with the F and T fields
// swapped. The UID of the new Line is the same as the
// UID of the receiver. The Lines within the Edge are
// not altered.
func (l Line) ReversedLine() graph.Line { l.F, l.T = l.T, l.F; return l }

// ID returns the ID of the line.
func (l Line) ID() int64 { return l.UID }

// WeightedEdge is a collection of weighted multigraph edges sharing end points.
type WeightedEdge struct {
 F, T graph.Node

 graph.WeightedLines

 // WeightFunc calculates the aggregate
 // weight of the lines in Lines. If
 // WeightFunc is nil, the sum of weights
 // is used as the edge weight.
 // The graph.WeightedLines can be expected
 // to be positioned at the first line of
 // the iterator on entry and must be
 // Reset before exit.
 // WeightFunc must accept a nil input.
 WeightFunc func(graph.WeightedLines) float64
}

//
 From returns the from-node of the edge.
func (e WeightedEdge) From() graph.Node { return e.F }

// To returns the to-node of the edge.
func (e WeightedEdge) To() graph.Node { return e.T }

// ReversedEdge returns a new Edge with the F and T fields
// swapped. The Lines within the WeightedEdge are not
// altered.
func (e WeightedEdge) ReversedEdge() graph.Edge { e.F, e.T = e.T, e.F; return e }

// Weight returns the weight of the edge. Weight uses WeightFunc
// field to calculate the weight, so the WeightedLines field is
// expected to be positioned at the first line and is reset before
// Weight returns.
func (e WeightedEdge) Weight() float64 {
 if e.WeightFunc != nil {
  return e.WeightFunc(e.WeightedLines)
```

```
 }
 if e.WeightedLines == nil {
  return 0
 }
 var w float64
 for e.Next() {
  w += e.WeightedLine().Weight()
 }
 e.WeightedLines.Reset()
 return w
}

// WeightedLine is a weighted multigraph edge.
type WeightedLine struct {
 F, T graph.Node
 W    float64

 UID int64
}

//
 From returns the from-node of the line.
func (l WeightedLine) From() graph.Node { return l.F }

// To returns the to-node of the line.
func (l WeightedLine) To() graph.Node { return l.T }

// ReversedLine returns a new Line with the F and T fields
// swapped. The UID and W of the new Line are the same as the
// UID and W of the receiver.
func (l WeightedLine) ReversedLine() graph.Line { l.F, l.T = l.T, l.F; return l }

// ID returns the ID of the line.
func (l WeightedLine) ID() int64 { return l.UID }

// Weight returns the weight of the edge.
func (l WeightedLine) Weight() float64 { return l.W }
graph{{diGrap}diGr{diGrap}diGrap}
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package testlapack

import (
 "fmt"
 "testing"
```

```
 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
)

type Dpbtrfer interface {
 Dpbtrf(uplo blas.Uplo, n, kd int, ab []float64, ldab int) (ok bool)
}

// DpbtrfTest tests a band Cholesky factorization on random symmetric positive definite
// band matrices by checking that the Cholesky factors multiply back to the original matrix.
func DpbtrfTest(t *testing.T, impl Dpbtrfer) {
 // TODO(vladimir-ch): include expected-failure test case.

 // With the current implementation of Ilaenv the blocked code path is taken if kd > 64.
 // Unfortunately, with the block size nb=32 this also means that in Dpbtrf
 // it never happens that i2 <= 0 and the state coverage (unlike code coverage) is not complete.
 rnd := rand.New(rand.NewSource(1))
 for _, n := range
 []int{0, 1, 2, 3, 4, 5, 64, 65, 66, 91, 96, 97, 101, 128, 130} {
  for _, kd := range []int{0, (n + 1) / 4, (3*n - 1) / 4, (5*n + 1) / 4} {
   for _, uplo := range []blas.Uplo{blas.Upper, blas.Lower} {
    for _, ldab := range []int{kd + 1, kd + 1 + 7} {
     dpbtrfTest(t, impl, uplo, n, kd, ldab, rnd)
    }
   }
  }
 }
}

func dpbtrfTest(t *testing.T, impl Dpbtrfer, uplo blas.Uplo, n, kd int, ldab int, rnd *rand.Rand) {
 const tol = 1e-12

 name := fmt.Sprintf("uplo=%v,n=%v,kd=%v,ldab=%v", string(uplo), n, kd, ldab)

 // Generate a random symmetric positive definite band matrix.
 ab := randSymBand(uplo, n, kd, ldab, rnd)

 // Compute the Cholesky decomposition of A.
 abFac := make([]float64, len(ab))
 copy(abFac, ab)
 ok := impl.Dpbtrf(uplo, n, kd, abFac, ldab)
 if !ok {
  t.Fatalf("%v: bad test matrix, Dpbtrf failed", name)
 }

 // Reconstruct an symmetric band matrix from the U*U or L*L factorization, overwriting abFac.
```

```
 dsbmm(uplo, n, kd, abFac, ldab)

 // Compute and check the
 max-norm distance between the reconstructed and original matrix A.
 dist := distSymBand(uplo, n, kd, abFac, ldab, ab, ldab)
 if dist > tol*float64(n) {
  t.Errorf("%v: unexpected result, diff=%v", name, dist)
 }
}

// dsbmm computes a symmetric band matrix A
//  A = U*U  if uplo == blas.Upper,
//  A = L*L  if uplo == blas.Lower,
// where U and L is an upper, respectively lower, triangular band matrix
// stored on entry in ab. The result is stored in-place into ab.
func dsbmm(uplo blas.Uplo, n, kd int, ab []float64, ldab int) {
 bi := blas64.Implementation()
 switch uplo {
 case blas.Upper:
  // Compute the product U * U.
  for k := n - 1; k >= 0; k-- {
   klen := min(kd, n-k-1) // Number of stored off-diagonal elements in the row
   // Add a multiple of row k of the factor U to each of rows k+1 through n.
   if klen > 0 {
    bi.Dsyr(blas.Upper, klen, 1, ab[k*ldab+1:], 1, ab[(k+1)*ldab:], ldab-1)
   }
   // Scale row k by the diagonal element.
   bi.Dscal(klen+1, ab[k*ldab], ab[k*ldab:],
 1)
  }
 case blas.Lower:
  // Compute the product L * L.
  for k := n - 1; k >= 0; k-- {
   kc := max(0, kd-k) // Index of the first valid element in the row
   klen := kd - kc    // Number of stored off-diagonal elements in the row
   // Compute the diagonal [k,k] element.
   ab[k*ldab+kd] = bi.Ddot(klen+1, ab[k*ldab+kc:], 1, ab[k*ldab+kc:], 1)
   // Compute the rest of column k.
   if klen > 0 {
    bi.Dtrmv(blas.Lower, blas.NoTrans, blas.NonUnit, klen,
     ab[(k-klen)*ldab+kd:], ldab-1, ab[k*ldab+kc:], 1)
   }
  }
 }
}
graph{{SUBGG{SUBGH}SUBGG}{SUBGG{SUBGH}}}
graph {sw sw}
```

```
graph{subGraA{{subGraA{subGraB}}GraB}}
graph{{EdgU}{EdgW{{EdgU}{EdgW}{EdgU}{EdgU}}{}{EdgU}{EdgU}}{EdgW}{}}
digraph{{{SW}->{SW}}}
graph{{SubG}SubG}
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package quad_test

import (
 "fmt"
 "math"
 "runtime"

 "gonum.org/v1/gonum/integrate/quad"
 "gonum.org/v1/gonum/stat/distuv"
)

func Example() {
 fmt.Println("Evaluate the expected value of x^2 + 3 under a Weibull distribution")
 f := func(x float64) float64 {
  d := distuv.Weibull{Lambda: 1, K: 1.5}
  return (x*x + 3) * d.Prob(x)
 }
 ev := quad.Fixed(f, 0, math.Inf(1), 10, nil, 0)
 fmt.Printf("EV with 10 points = %0.6v\n", ev)

 ev = quad.Fixed(f, 0, math.Inf(1), 30, nil, 0)
 fmt.Printf("EV with 30 points = %0.6v\n", ev)

 ev = quad.Fixed(f, 0, math.Inf(1), 100, nil, 0)
 fmt.Printf("EV with 100 points = %0.6v\n", ev)

 ev = quad.Fixed(f, 0, math.Inf(1), 10000, nil, 0)
 fmt.Printf("EV with 10000 points = %0.6v\n\n", ev)

 fmt.Println("Estimate using parallel evaluations of f.")
 concurrent := runtime.GOMAXPROCS(0)
 ev = quad.Fixed(f,
 0, math.Inf(1), 100, nil, concurrent)
 fmt.Printf("EV = %0.6v\n", ev)
 // Output:
 // Evaluate the expected value of x^2 + 3 under a Weibull distribution
 // EV with 10 points = 4.20175
 // EV with 30 points = 4.19066
 // EV with 100 points = 4.19064
 // EV with 10000 points = 4.19064
```

//
// Estimate using parallel evaluations of f.
// EV = 4.19064
}
graph{GrapA}
graph{{subGr_{{subGr_}subGr_}subGr_}}
Graph{<><><><><><><><><>}
graph{DI9{DI9{{DI9}}}}
graph{{digrP{{digrA}digrA}digrP{digrA}}}
graph{Digraph0}
graph{{Dig_}Dig_{Dig_}}
graph{"\Zd"{"\Z{"}"\Zd"}
graph{SubGra9}
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package token

```
import (
 "fmt"
)

type Token struct {
 Type
 Lit []byte
 Pos
}

type Type int

const (
 INVALID Type = iota
 EOF
)

type Pos struct {
 Offset int
 Line   int
 Column int
}

func (p Pos) String() string {
 return fmt.Sprintf("Pos(offset=%d, line=%d, column=%d)", p.Offset, p.Line, p.Column)
}

type TokenMap struct {
 typeMap []string
 idMap   map[string]Type
}

func (m TokenMap) Id(tok Type) string {
 if int(tok) < len(m.typeMap) {
  return m.typeMap[tok]
 }
 return "unknown"
}

func (m TokenMap) Type(tok string) Type {
 if typ, exist := m.idMap[tok]; exist {
  return typ
 }
 return
 INVALID
}

func (m TokenMap) TokenString(tok *Token) string {
```

```
 //TODO: refactor to print pos & token string properly
 return fmt.Sprintf("%s(%d,%s)", m.Id(tok.Type), tok.Type, tok.Lit)
}

func (m TokenMap) StringType(typ Type) string {
 return fmt.Sprintf("%s(%d)", m.Id(typ), typ)
}

var TokMap = TokenMap{
 typeMap: []string{
  "INVALID",
  "$",
  "{",
  "}",
  "empty",
  "strict",
  "graphx",
  "digraph",
  ";",
  "--",
  "->",
  "node",
  "edge",
  "[",
  "]",
  ",",
  "=",
  "subgraph",
  ":",
  "id",
 },

 idMap: map[string]Type{
  "INVALID":  0,
  "$":        1,
  "{":        2,
  "}":        3,
  "empty":    4,
  "strict":   5,
  "graphx":   6,
  "digraph":  7,
  ";":        8,
  "--":       9,
  "->":       10,
  "node":     11,
  "edge":     12,
  "[":        13,
  "]":        14,
```

```
  ",":        15,
  "=":        16,
  "subgraph": 17,
  ":":        18,
  "id":       19,
 },
}
graph{{{striN}{striN}striN{striN}striN}striN{striN}}
graph{{GG{{GG}}}}
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package distuv

import (
 "math"
 "sort"
 "testing"

 "golang.org/x/exp/rand"
)

func TestHalfKStandardWeibullProb(t *testing.T) {
 pts := []univariateProbPoint{
  {
   loc:     0,
   prob:    math.Inf(1),
   cumProb: 0,
   logProb: math.Inf(1),
  },
  {
   loc:     -1,
   prob:    0,
   cumProb: 0,
   logProb: 0,
  },
  {
   loc:     1,
   prob:    0.183939720585721,
   cumProb: 0.632120558828558,
   logProb: -1.693147180559950,
  },
  {
   loc:     20,
   prob:    0.001277118038048,
   cumProb: 0.988577109006533,
   logProb: -6.663149272336520,
```

```
  },
 }
 testDistributionProbs(t, Weibull{K: 0.5, Lambda: 1}, "0.5K Standard Weibull", pts)
}

func TestExponentialStandardWeibullProb(t *testing.T) {
 pts := []univariateProbPoint{
  {
   loc:     0,
   prob:    1,
   cumProb: 0,
   logProb: math.Inf(1),
  },
  {
   loc:     -1,
   prob:
    0,
   cumProb: 0,
   logProb: 0,
  },
  {
   loc:     1,
   prob:    0.367879441171442,
   cumProb: 0.632120558828558,
   logProb: -1.0,
  },
  {
   loc:     20,
   prob:    0.000000002061154,
   cumProb: 0.999999997938846,
   logProb: -20.0,
  },
 }
 testDistributionProbs(t, Weibull{K: 1, Lambda: 1}, "1K (Exponential) Standard Weibull", pts)
}

func TestRayleighStandardWeibullProb(t *testing.T) {
 pts := []univariateProbPoint{
  {
   loc:     0,
   prob:    0,
   cumProb: 0,
   logProb: math.Inf(-1),
  },
  {
   loc:     -1,
   prob:    0,
   cumProb: 0,
```

```
  logProb: 0,
  },
  {
  loc:     1,
  prob:    0.735758882342885,
  cumProb: 0.632120558828558,
  logProb: -0.306852819440055,
  },
  {
  loc:     20,
  prob:    0,
  cumProb: 1,
  logProb: -396.31112054588607,
  },
 }
 testDistributionProbs(t, Weibull{K: 2, Lambda: 1}, "2K (Rayleigh) Standard Weibull", pts)
}

func TestFiveKStandardWeibullProb(t *testing.T) {
 pts := []univariateProbPoint{
  {
  loc:     0,
  prob:
   0,
  cumProb: 0,
  logProb: math.Inf(-1),
  },
  {
  loc:     -1,
  prob:    0,
  cumProb: 0,
  logProb: 0,
  },
  {
  loc:     1,
  prob:    1.839397205857210,
  cumProb: 0.632120558828558,
  logProb: 0.609437912434100,
  },
  {
  loc:     20,
  prob:    0,
  cumProb: 1,
  logProb: -3199986.4076329935,
  },
 }
 testDistributionProbs(t, Weibull{K: 5, Lambda: 1}, "5K Standard Weibull", pts)
}
```

```
func TestScaledUpHalfKStandardWeibullProb(t *testing.T) {
 pts := []univariateProbPoint{
  {
   loc:     0,
   prob:    math.Inf(1),
   cumProb: 0,
   logProb: math.Inf(1),
  },
  {
   loc:     -1,
   prob:    0,
   cumProb: 0,
   logProb: 0,
  },
  {
   loc:     1,
   prob:    0.180436508682207,
   cumProb: 0.558022622759326,
   logProb: -1.712376315541750,
  },
  {
   loc:     20,
   prob:    0.002369136850928,
   cumProb: 0.974047406098605,
   logProb: -6.045229588092130,
  },
 }
 testDistributionProbs(t, Weibull{K: 0.5, Lambda: 1.5}, "0.5K 1.5 Weibull", pts)
}

func TestScaledDownHalfKStandardWeibullProb(t
 *testing.T) {
 pts := []univariateProbPoint{
  {
   loc:     0,
   prob:    math.Inf(1),
   cumProb: 0,
   logProb: math.Inf(1),
  },
  {
   loc:     -1,
   prob:    0,
   cumProb: 0,
   logProb: 0,
  },
  {
   loc:     1,
```

```
  prob:    0.171909491538362,
  cumProb: 0.756883265565786,
  logProb: -1.760787152653070,
 },
 {
  loc:     20,
  prob:    0.000283302579100,
  cumProb: 0.998208237166091,
  logProb: -8.168995047393730,
 },
}
testDistributionProbs(t, Weibull{K: 0.5, Lambda: 0.5}, "0.5K 0.5 Weibull", pts)
}

func TestWeibullScore(t *testing.T) {
 for _, test := range []*Weibull{
  {
   K:      1,
   Lambda: 1,
  },
  {
   K:      2,
   Lambda: 3.6,
  },
  {
   K:      3.4,
   Lambda: 8,
  },
 } {
  testDerivParam(t, test)
 }
}

func TestWeibull(t *testing.T) {
 src := rand.New(rand.NewSource(1))
 for i, dist := range []Weibull{
  {K: 1, Lambda: 1, Src: src},
  {K: 2, Lambda: 3.6, Src: src},
  {K: 3.4, Lambda: 8, Src: src},
 } {
  testWeibull(t,
 dist, i)
 }
}

func testWeibull(t *testing.T, dist Weibull, i int) {
 const (
  tol  = 1e-2
```

```
 n    = 3e6
 bins = 50
)
x := make([]float64, n)
generateSamples(x, dist)
sort.Float64s(x)

checkMean(t, i, x, dist, tol)
checkVarAndStd(t, i, x, dist, tol)
checkEntropy(t, i, x, dist, tol)
checkExKurtosis(t, i, x, dist, tol)
checkSkewness(t, i, x, dist, tol)
checkMedian(t, i, x, dist, tol)
checkQuantileCDFSurvival(t, i, x, dist, tol)
checkProbContinuous(t, i, x, dist, 1e-10)
checkProbQuantContinuous(t, i, x, dist, tol)
}
graph{subg{subg}subgr}
graph{{{{EDGt{{{EDGy}}}}}}}
graph{Nodr}
graph{di_{di_{di_}di_}{di_{di_}}}
graph{{die}}
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package testlapack

import (
 "testing"

 "gonum.org/v1/gonum/floats"
 "gonum.org/v1/gonum/lapack"
)

type Dlasrter interface {
 Dlasrt(s lapack.Sort, n int, d []float64)
}

func DlasrtTest(t *testing.T, impl Dlasrter) {
 for ti, test := range []struct {
  data    []float64
  wantInc []float64
  wantDec []float64
 }{
  {
   data:    nil,
   wantInc: nil,
```

```
 wantDec: nil,
},
{
 data:    []float64{},
 wantInc: []float64{},
 wantDec: []float64{},
},
{
 data:    []float64{1},
 wantInc: []float64{1},
 wantDec: []float64{1},
},
{
 data:    []float64{1, 2},
 wantInc: []float64{1, 2},
 wantDec: []float64{2, 1},
},
{
 data:    []float64{1, 2, -3},
 wantInc: []float64{-3, 1, 2},
 wantDec: []float64{2, 1, -3},
},
{
 data:    []float64{-5, -4, -3, -2, -1, 0, 1, 2, 3, 4, 5},
 wantInc: []float64{-5,
-4, -3, -2, -1, 0, 1, 2, 3, 4, 5},
 wantDec: []float64{5, 4, 3, 2, 1, 0, -1, -2, -3, -4, -5},
},
{
 data:    []float64{5, 4, 3, 2, 1, 0, -1, -2, -3, -4, -5},
 wantInc: []float64{-5, -4, -3, -2, -1, 0, 1, 2, 3, 4, 5},
 wantDec: []float64{5, 4, 3, 2, 1, 0, -1, -2, -3, -4, -5},
},
{
 data:    []float64{-2, 4, -1, 2, -4, 0, 3, 5, -5, 1, -3},
 wantInc: []float64{-5, -4, -3, -2, -1, 0, 1, 2, 3, 4, 5},
 wantDec: []float64{5, 4, 3, 2, 1, 0, -1, -2, -3, -4, -5},
},
} {
n := len(test.data)
ds := make([]float64, n)

copy(ds, test.data)
impl.Dlasrt(lapack.SortIncreasing, n, ds)
if !floats.Equal(ds, test.wantInc) {
 t.Errorf("Case #%v: unexpected result of SortIncreasing", ti)
}
```

```
  copy(ds, test.data)
  impl.Dlasrt(lapack.SortDecreasing, n, ds)
  if !floats.Equal(ds, test.wantDec) {
   t.Errorf("Case #%v: unexpected result of SortIncreasing", ti)
  }
 }
}
graph{{GR1}}
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package testlapack

import (
 "math"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
)

type Dlacn2er interface {
 Dlacn2(n int, v, x []float64, isgn []int, est float64, kase int, isave *[3]int) (float64, int)
}

func Dlacn2Test(t *testing.T, impl Dlacn2er) {
 rnd := rand.New(rand.NewSource(1))
 for _, n := range []int{1, 2, 3, 4, 5, 7, 10, 15, 20, 100} {
  for cas := 0; cas < 10; cas++ {
   a := randomGeneral(n, n, n, rnd)

   // Compute the 1-norm of A explicitly.
   var norm1 float64
   for j := 0; j < n; j++ {
    var sum float64
    for i := 0; i < n; i++ {
     sum += math.Abs(a.Data[i*a.Stride+j])
    }
    if sum > norm1 {
     norm1 = sum
    }
   }

   // Compute the estimate of 1-norm using Dlanc2.
   x := make([]float64, n)
```

```
  work := make([]float64, n)
  v := make([]float64,
 n)
  isgn := make([]int, n)
  var (
   kase  int
   isave [3]int
   got   float64
  )
 loop:
  for {
   got, kase = impl.Dlacn2(n, v, x, isgn, got, kase, &isave)
   switch kase {
   default:
    panic("Dlacn2 returned invalid value of kase")
   case 0:
    break loop
   case 1:
    blas64.Gemv(blas.NoTrans, 1, a, blas64.Vector{Data: x, Inc: 1}, 0, blas64.Vector{Data: work, Inc: 1})
    copy(x, work)
   case 2:
    blas64.Gemv(blas.Trans, 1, a, blas64.Vector{Data: x, Inc: 1}, 0, blas64.Vector{Data: work, Inc: 1})
    copy(x, work)
   }
  }

  // Check that got is either accurate enough or a
  // lower estimate of the 1-norm of A.
  if math.Abs(got-norm1) > 1e-8 && got > norm1 {
   t.Errorf("Case n=%v: not lower estimate. 1-norm %v, estimate %v", n, norm1, got)
  }
 }
}
}
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package lp_test

import (
 "fmt"
 "log"

 "gonum.org/v1/gonum/mat"
 "gonum.org/v1/gonum/optimize/convex/lp"
)
```

```
func ExampleSimplex() {
 c := []float64{-1, -2, 0, 0}
 A := mat.NewDense(2, 4, []float64{-1, 2, 1, 0, 3, 1, 0, 1})
 b := []float64{4, 9}

 opt, x, err := lp.Simplex(c, A, b, 0, nil)
 if err != nil {
  log.Fatal(err)
 }
 fmt.Printf("opt: %v\n", opt)
 fmt.Printf("x: %v\n", x)
 // Output:
 // opt: -8
 // x: [2 3 0 0]
}
Graph{{{subgraM}subgraS{}subgraM}}
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package distuv

import (
 "sort"
 "testing"

 "golang.org/x/exp/rand"
)

func TestLognormal(t *testing.T) {
 src := rand.New(rand.NewSource(1))
 for i, dist := range []LogNormal{
  {Mu: 0.1, Sigma: 0.3, Src: src},
  {Mu: 0.01, Sigma: 0.01, Src: src},
  {Mu: 2, Sigma: 0.01, Src: src},
 } {
  const (
   tol = 1e-2
   n   = 1e5
  )
  x := make([]float64, n)
  generateSamples(x, dist)
  sort.Float64s(x)

  checkMean(t, i, x, dist, tol)
  checkVarAndStd(t, i, x, dist, tol)
  checkEntropy(t, i, x, dist, tol)
  checkExKurtosis(t, i, x, dist, 2e-1)
```

```
  checkSkewness(t, i, x, dist, 5e-2)
  checkMedian(t, i, x, dist, tol)
  checkQuantileCDFSurvival(t, i, x, dist, tol)
  checkProbContinuous(t, i, x, dist, 1e-10)
  checkProbQuantContinuous(t, i, x, dist, tol)
 }
}

// See https://github.com/gonum/gonum/issues/577 for details.
func TestLognormalIssue577(t
 *testing.T) {
 x := 1.0e-16
 max := 1.0e-295
 cdf := LogNormal{Mu: 0, Sigma: 1}.CDF(x)
 if cdf <= 0 {
  t.Errorf("LogNormal{0,1}.CDF(%e) should be positive. got: %e", x, cdf)
 }
 if cdf > max {
  t.Errorf("LogNormal{0,1}.CDF(%e) is greater than %e. got: %e", x, max, cdf)
 }
}
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// Package dual provides the dual numeric type and functions. Dual numbers
// are an extension of the real numbers in the form a+b where ^2=0, but 0.
//
// See https://en.wikipedia.org/wiki/Dual_number for details of their properties
// and uses.
package dual // imports "gonum.org/v1/gonum/num/dual"

// TODO(kortschak): Handle special cases properly.
//  - Pow
graph{{{{grap5}grap5}grap5{grap5}grap5}grap5}
graph{{{gra{{gra}}gra{{gra{{{gra}gra{{{gra{}}}}gra}}gra}}}}}
graph{_[diGra_=""]diGra_[diGra_=""]diGra_}
graph{{Edg}{Edg{Edg}Edg}Edg{Edg}{Edg{Edg}Edg}}
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// Package testlapack implements a set of testing routines for Lapack functions.
package testlapack // import "gonum.org/v1/gonum/lapack/testlapack"
Graph{{{subgrap{subgrap}subgrap}}subgrap{subgrap}subgrap}
// Code generated by "go generate gonum.org/v1/gonum/unit/constant; DO NOT EDIT.

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```

```
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package constant

import (
 "fmt"
 "testing"
)

func TestMagneticConstantFormat(t *testing.T) {
 for _, test := range []struct {
  format string
  want   string
 }{
  {"%v", "1.2566370621238374e-06 A^2 s^4 kg^-1 m^-3"},
  {"%.1v", "1e-06 A^2 s^4 kg^-1 m^-3"},
  {"%50.1v", "                        1e-06 A^2 s^4 kg^-1 m^-3"},
  {"%50v", "        1.2566370621238374e-06 A^2 s^4 kg^-1 m^-3"},
  {"%1v", "1.2566370621238374e-06 A^2 s^4 kg^-1 m^-3"},
  {"%#v", "constant.magneticConstantUnits(1.2566370621238374e-06)"},
  {"%s", "%!s(constant.magneticConstantUnits=1.2566370621238374e-06 A^2 s^4 kg^-1 m^-3)"},
 } {
  got := fmt.Sprintf(test.format, MagneticConstant)
  if got != test.want {
   t.Errorf("Format %q: got: %q want: %q", test.format, got, test.want)
  }
 }
}
graph{e[l=<>]}
graph{{{noe noe not not}noe not}}
graph{dir{dir{dir}}}
graph{<693889300390722837764769792556762695312284217094304040074348449707031255>}
graph{di}
      DOUBLE PRECISION FUNCTION MYEXP(A)
     DOUBLE PRECISION A
     MYEXP = DEXP(A)
     RETURN
     END
digraph{e[l=<<=>>]}
Graph{{{{{subgre}}subgro}}}
graph{EDA{EDA}}
graph{NOD{NOD{NOD{NOD}NOD}}NOD}
graph{Su{{{Su{{Su}}}Su}}}
digraph{B}digraph{D}
graph{{{subg{{{{subg}subg{{{{{subg}subg}}}}}}}}}}
graph{strh{{{strh{{{strh{{{strd}}}}}}}}}}
```

graph{Subgrag{Subgrag{{Subgraf{{Subgraf}}}}{{Subgraf}}}}
graph{D{DIG_{DIG_}DIG_}}
graph{{{Stri}Stri}}
graph{{digr_}{digr_{digr_}{digr_{}digr_}}digr_}
digraph{{w:sw->w:sw->w:sw}w:sw->w:sw->w:sw}
graph{{"siQ0p2wJVKq9_9vW_0_YXH3_9tuvOtt3AdM6_esq_5_0wvni{W}o1h1PyG1YOedae{s4TupuTsd_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}"}}
graph{{Grap}Grap}
graph{{{gra0{{gra0}{gra0}}}}}
graph{[f=4][f=8][f=2][f=2][f=3][f=7][f=2][f=4][f=6][f=6][f=4][f=4][f=9][f=4][f=4][f=4][f=4][f=4][f=1][f=4][f=6][f=6][f=4][f=1][f=6][f=1][f=2][f=7][f=8][f=2][f=2][f=3][f=7][f=2][f=4][f=6][f=6][f=4][f=4][f=9][f=4][f=4][f=4][f=4][f=4][f=1][f=4][f=6][f=6][f=4][f=1][f=6][f=1][f=2][f=7][f=1][f=1][f=1][f=1][f=8][f=1][f=1][f=1][f=1][f=1][f=8][f=1][f=3][f=5][f=1][f=1][f=1][f=9]}

```
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package testblas

import (
 "fmt"
 "testing"

 "golang.org/x/exp/rand"
 "gonum.org/v1/gonum/blas"
)

type Ztbsver interface {
 Ztbsv(uplo blas.Uplo, trans blas.Transpose, diag blas.Diag, n, k int, ab []complex128, ldab int, x []complex128, incX int)

 Ztbmver
}

func ZtbsvTest(t *testing.T, impl Ztbsver) {
 rnd := rand.New(rand.NewSource(1))
 for _, uplo := range []blas.Uplo{blas.Upper, blas.Lower} {
  for _, trans := range []blas.Transpose{blas.NoTrans, blas.Trans, blas.ConjTrans} {
   for _, diag := range []blas.Diag{blas.NonUnit, blas.Unit} {
    for _, n := range []int{1, 2, 3, 4, 10} {
     for k := 0; k < n; k++ {
      for _, ldab := range []int{k + 1, k + 1 + 10} {
       for _, incX := range []int{-4, 1, 5} {
        ztbsvTest(t, impl, rnd, uplo, trans, diag, n, k, ldab, incX)
       }
      }
     }
    }
```

```
   }
  }
 }
}

//
 ztbsvTest tests Ztbsv by checking whether Ztbmv followed by Ztbsv
// round-trip.
func ztbsvTest(t *testing.T, impl Ztbsver, rnd *rand.Rand, uplo blas.Uplo, trans blas.Transpose, diag blas.Diag, n, k,
ldab, incX int) {
 const tol = 1e-10

 // Allocate a dense-storage triangular band matrix filled with NaNs that
 // will be used as a for creating the actual triangular band matrix.
 lda := max(1, n)
 a := makeZGeneral(nil, n, n, lda)
 // Fill the referenced triangle of A with random data within the band
 // and with zeros outside.
 if uplo == blas.Upper {
  for i := 0; i < n; i++ {
   for j := i; j < min(n, i+k+1); j++ {
    re := rnd.NormFloat64()
    im := rnd.NormFloat64()
    a[i*lda+j] = complex(re, im)
   }
   for j := i + k + 1; j < n; j++ {
    a[i*lda+j] = 0
   }
  }
 } else {
  for i := 0; i < n; i++ {
   for j := 0; j < i-k; j++ {
    a[i*lda+j] = 0
   }
   for j := max(0, i-k); j <= i; j++ {
    re := rnd.NormFloat64()
    im := rnd.NormFloat64()
    a[i*lda+j] = complex(re,
 im)
   }
  }
 }
 if diag == blas.Unit {
  // The diagonal should not be referenced by Ztbmv and Ztbsv, so
  // invalidate it with NaNs.
  for i := 0; i < n; i++ {
   a[i*lda+i] = znan
  }
```

```
 }
 // Create the triangular band matrix.
 ab := zPackTriBand(k, ldab, uplo, n, a, lda)
 abCopy := make([]complex128, len(ab))
 copy(abCopy, ab)

 // Generate a random complex vector x.
 xtest := make([]complex128, n)
 for i := range xtest {
  re := rnd.NormFloat64()
  im := rnd.NormFloat64()
  xtest[i] = complex(re, im)
 }
 x := makeZVector(xtest, incX)

 // Store a copy of x as the correct result that we want.
 want := make([]complex128, len(x))
 copy(want, x)

 // Compute A*x, denoting the result by b and storing it in x.
 impl.Ztbmv(uplo, trans, diag, n, k, ab, ldab, x, incX)
 // Solve A*x = b, that is, x = A^{-1}*b = A^{-1}*A*x.
 impl.Ztbsv(uplo, trans, diag, n, k, ab, ldab, x, incX)
 // If Ztbsv is correct, A^{-1}*A = I and x contains again its original value.

 name := fmt.Sprintf("uplo=%v,trans=%v,diag=%v,n=%v,k=%v,ldab=%v,incX=%v",
 uplo, trans, diag, n, k, ldab, incX)
 if !zsame(ab, abCopy) {
  t.Errorf("%v: unexpected modification of A", name)
 }
 if !zSameAtNonstrided(x, want, incX) {
  t.Errorf("%v: unexpected modification of x\nwant %v\ngot  %v", name, want, x)
 }
 if !zEqualApproxAtStrided(x, want, incX, tol) {
  t.Errorf("%v: unexpected result\nwant %v\ngot  %v", name, want, x)
 }
}
graph{{nodU{nodU}{nodU}{nodU}{nodU}{nodU}}}
graph{{{{GRA_}GRA_}GRA_{{GRA_}GRA_}{{GRA_}GRA_}{{GRA_}}{{GRA_}GRA_}GRA_}}
graph{{subgr{{subgr}subgr}}subgr}
graph{SUB7{SUB2}}
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package topo

import (
```

```
 "fmt"
 "testing"

 "gonum.org/v1/gonum/graph/encoding"
 "gonum.org/v1/gonum/graph/encoding/dot"
 "gonum.org/v1/gonum/graph/simple"
)

var cliqueGraphTests = []struct {
 name string
 g    []intset
 want string
}{
 {
  name: "simple",
  g: []intset{
   0: linksTo(1, 2, 4, 6),
   1: linksTo(2, 4, 6),
   2: linksTo(3, 6),
   3: linksTo(4, 5),
   4: linksTo(6),
   5: nil,
   6: nil,
  },
  want: `strict graph {
 // Node definitions.
 0 [nodes="[0 1 2 6]"];
 1 [nodes="[0 1 4 6]"];
 2 [nodes="[2 3]"];
 3 [nodes="[3 4]"];
 4 [nodes="[3 5]"];

 // Edge definitions.
 0 -- 1 [nodes="[0 1 6]"];
 0 -- 2 [nodes="[2]"];
 1 -- 3 [nodes="[4]"];
 2 -- 3 [nodes="[3]"];
 2 -- 4 [nodes="[3]"];
 3 -- 4 [nodes="[3]"];
}`,
 },
 {
  name: "Batagelj-Zaversnik Graph",
  g:    batageljZaversnikGraph,
  want: `strict graph
 {
 // Node definitions.
 0 [nodes="[0]"];
```

```
 1 [nodes="[1 2]"];
 2 [nodes="[1 3]"];
 3 [nodes="[2 4]"];
 4 [nodes="[3 4]"];
 5 [nodes="[4 5]"];
 6 [nodes="[6 7 8 14]"];
 7 [nodes="[7 11 12]"];
 8 [nodes="[9 11]"];
 9 [nodes="[10 11]"];
 10 [nodes="[12 18]"];
 11 [nodes="[13 14 15]"];
 12 [nodes="[14 15 17]"];
 13 [nodes="[15 16]"];
 14 [nodes="[17 18 19 20]"];

 // Edge definitions.
 1 -- 2 [nodes="[1]"];
 1 -- 3 [nodes="[2]"];
 2 -- 4 [nodes="[3]"];
 3 -- 4 [nodes="[4]"];
 3 -- 5 [nodes="[4]"];
 4 -- 5 [nodes="[4]"];
 6 -- 7 [nodes="[7]"];
 6 -- 11 [nodes="[14]"];
 6 -- 12 [nodes="[14]"];
 7 -- 8 [nodes="[11]"];
 7 -- 9 [nodes="[11]"];
 7 -- 10 [nodes="[12]"];
 8 -- 9 [nodes="[11]"];
 10 -- 14 [nodes="[18]"];
 11 -- 12 [nodes="[14 15]"];
 11 -- 13 [nodes="[15]"];
 12 -- 13 [nodes="[15]"];
 12 -- 14 [nodes="[17]"];
}`,
 },
}

func TestCliqueGraph(t *testing.T) {
 for _, test := range cliqueGraphTests {
  g := simple.NewUndirectedGraph()
  for u, e
 := range test.g {
   // Add nodes that are not defined by an edge.
   if g.Node(int64(u)) == nil {
    g.AddNode(simple.Node(u))
   }
   for v := range e {
```

```
    g.SetEdge(simple.Edge{F: simple.Node(u), T: simple.Node(v)})
   }
  }
  dst := simple.NewUndirectedGraph()
  CliqueGraph(dst, g)

  b, _ := dot.Marshal(dst, "", "", "  ")
  got := string(b)

  if got != test.want {
   t.Errorf("unexpected clique graph result for %q: got:\n%s\nwant:\n%s", test.name, got, test.want)
  }
 }
}

func (n Clique) Attributes() []encoding.Attribute {
 return []encoding.Attribute{{Key: "nodes", Value: fmt.Sprintf(`"%v"`, n.Nodes())}}
}

func (e CliqueGraphEdge) Attributes() []encoding.Attribute {
 return []encoding.Attribute{{Key: "nodes", Value: fmt.Sprintf(`"%v"`, e.Nodes())}}
}

func BenchmarkCliqueGraph(b *testing.B) {
 for _, test := range cliqueGraphTests {
  g := simple.NewUndirectedGraph()
  for u, e := range test.g {
   // Add nodes that are not defined by an edge.
   if g.Node(int64(u)) == nil {
    g.AddNode(simple.Node(u))
   }
   for
 v := range e {
    g.SetEdge(simple.Edge{F: simple.Node(u), T: simple.Node(v)})
   }
  }

  b.Run(test.name, func(b *testing.B) {
   var dst *simple.UndirectedGraph
   for i := 0; i < b.N; i++ {
    b.StopTimer()
    dst = simple.NewUndirectedGraph()
    b.StartTimer()
    CliqueGraph(dst, g)
   }
  })
 }
}
```

digraph{{D:G:h{{D:G:_->G:G:_->G:G:_}}G:G:_->G:G:_}}
graph{{{{SUBGRAPe{{{SUBGRAPk}}SUBGRAPk}}}{{{{SUBGRAPk}}SUBGRAPk}}{SUBGRAPe{{{SUBGRAPk}}SUBGRAPk}}{}{SUBGRAPe{{{SUBGRAPk}}SUBGRAPk}}{SUBGRAPe{{}SUBGRAPk}}{SUBGRAPe{{{}}{SUBGRAPe{{{}}SU}}SUBGRAPk}}}{{SUBGRAPe{{{}}}}}{}}}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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```
package unit

import (
 "fmt"
 "testing"
)

func TestResistanceFormat(t *testing.T) {
 for _, test := range []struct {
  value  Resistance
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 "},
  {1.23456789, "%.1v", "1 "},
  {1.23456789, "%20.1v", "                   1 "},
  {1.23456789, "%20v", "        1.23456789 "},
  {1.23456789, "%1v", "1.23456789 "},
  {1.23456789, "%#v", "unit.Resistance(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Resistance=1.23456789 )"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
```

graph{{{digrap}digrap{{digrap}digrap}}}
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```
// +build !appengine,!safe

package mat

import "unsafe"
```

```
// offset returns the number of float64 values b[0] is after a[0].
func offset(a, b []float64) int {
 if &a[0] == &b[0] {
  return 0
 }
 // This expression must be atomic with respect to GC moves.
 // At this stage this is true, because the GC does not
 // move. See https://golang.org/issue/12445.
 return int(uintptr(unsafe.Pointer(&b[0]))-uintptr(unsafe.Pointer(&a[0]))) / int(unsafe.Sizeof(float64(0)))
}

// offsetComplex returns the number of complex128 values b[0] is after a[0].
func offsetComplex(a, b []complex128) int {
 if &a[0] == &b[0] {
  return 0
 }
 // This expression must be atomic with respect to GC moves.
 // At this stage this is true, because the GC does not
 // move. See https://golang.org/issue/12445.
 return int(uintptr(unsafe.Pointer(&b[0]))-uintptr(unsafe.Pointer(&a[0])))
 / int(unsafe.Sizeof(complex128(0)))
}
graph{{{{{{gO}gJ{{{{{gO}}}}}}}}}
graph{SUBGRAU{SUBGRAV{SUBGRAU}}{SUBGRAV{SUBGRAU{SUBGRAV{SUBGRAU}}SUBGRAU}}
SUBGRAV}
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// Package encoding provides a common graph encoding API.
package encoding // import "gonum.org/v1/gonum/graph/encoding"
graph{{SubGrag{SubGrag}SubGrag}}
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```

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ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
graph{{{diGrp}}}
graph{{SubGra_}{SubGra_}{SubGra_}{SubGra_}{}{SubGra_}{SubGra_}{SubGra_}{SubGra_}{SubGra_}}

```
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package gonum

import (
 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
)

// Dpbtrs solves a system of linear equations A*X = B with an nn symmetric
// positive definite band matrix A using the Cholesky factorization
//  A = U * U  if uplo == blas.Upper
//  A = L * L  if uplo == blas.Lower
// computed by Dpbtrf. kd is the number of super- or sub-diagonals of A. See the
// documentation for Dpbtrf for a description of the band storage format of A.
//
// On entry, b contains the nnrhs right hand side matrix B. On return, it is
// overwritten with the solution matrix X.
func (Implementation) Dpbtrs(uplo blas.Uplo, n, kd, nrhs int, ab []float64, ldab int, b []float64, ldb int) {
 switch {
 case uplo != blas.Upper && uplo != blas.Lower:
  panic(badUplo)
 case n < 0:
  panic(nLT0)
 case kd < 0:
  panic(kdLT0)
 case nrhs
 < 0:
  panic(nrhsLT0)
 case ldab < kd+1:
  panic(badLdA)
 case ldb < max(1, nrhs):
  panic(badLdB)
 }
```

```
 // Quick return if possible.
 if n == 0 || nrhs == 0 {
  return
 }

 if len(ab) < (n-1)*ldab+kd+1 {
  panic(shortAB)
 }
 if len(b) < (n-1)*ldb+nrhs {
  panic(shortB)
 }

 bi := blas64.Implementation()
 if uplo == blas.Upper {
  // Solve A*X = B where A = U*U.
  for j := 0; j < nrhs; j++ {
   // Solve U*Y = B, overwriting B with Y.
   bi.Dtbsv(blas.Upper, blas.Trans, blas.NonUnit, n, kd, ab, ldab, b[j:], ldb)
   // Solve U*X = Y, overwriting Y with X.
   bi.Dtbsv(blas.Upper, blas.NoTrans, blas.NonUnit, n, kd, ab, ldab, b[j:], ldb)
  }
 } else {
  // Solve A*X = B where A = L*L.
  for j := 0; j < nrhs; j++ {
   // Solve L*Y = B, overwriting B with Y.
   bi.Dtbsv(blas.Lower, blas.NoTrans, blas.NonUnit, n, kd, ab, ldab, b[j:], ldb)
   // Solve L*X = Y, overwriting Y with X.
   bi.Dtbsv(blas.Lower, blas.Trans, blas.NonUnit, n, kd, ab, ldab, b[j:], ldb)
  }
 }
}
graph{strict_}
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// license that can be found in the LICENSE file.

package layout

import (
 "gonum.org/v1/gonum/graph"
 "gonum.org/v1/gonum/spatial/r2"
)

// GraphR2 is a graph with planar spatial representation of node positions.
type GraphR2 interface {
 graph.Graph
 LayoutNodeR2(id int64) NodeR2
```

```
}

// NodeR2 is a graph node with planar spatial representation of its position.
// A NodeR2 is only valid when the graph.Node is not nil.
type NodeR2 struct {
 graph.Node
 Coord2 r2.Vec
}
graph{grap}
//** github.com/prashanth26/machine-controller-manager@v0.0.0-20181102103410-c6b285941cf9 **//

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```

```
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```
graph{{sur{sur{sur}sur}}}

```
graph{{{{{{subGra{{subGrax}}subGrau}subGrax}}subGra}}subGrax}
graph{{{{{Edge[]}}}}}
      DOUBLE PRECISION FUNCTION MZABS(ZR, ZI)
C***BEGIN PROLOGUE  ZABS
C***REFER TO  ZBESH,ZBESI,ZBESJ,ZBESK,ZBESY,ZAIRY,ZBIRY
C
C     ZABS COMPUTES THE ABSOLUTE VALUE OR MAGNITUDE OF A DOUBLE
C     PRECISION COMPLEX VARIABLE CMPLX(ZR,ZI)
C
C***ROUTINES CALLED  (NONE)
C***END PROLOGUE  ZABS
      DOUBLE PRECISION ZR, ZI, U, V, Q, S

      MZABS = ZABS(CMPLX(ZR,ZI,kind=KIND(1.0D0)))
      RETURN
      END

c     U = DABS(ZR)
c     V = DABS(ZI)
c     S = U + V
C-----------------------------------------------------------------------
C     S*1.0D0 MAKES AN UNNORMALIZED UNDERFLOW ON CDC MACHINES INTO A
C     TRUE FLOATING ZERO
C-----------------------------------------------------------------------
c     S = S*1.0D+0
c     IF (S.EQ.0.0D+0) GO TO 20
c     IF (U.GT.V) GO TO 10
c     Q = U/V
c     ZABS = V*DSQRT(1.D+0+Q*Q)
c     RETURN
c   10 Q = V/U
c     ZABS = U*DSQRT(1.D+0+Q*Q)
c     RETURN
c   20 ZABS = 0.0D+0
c     RETURN
c     END
graph{Digrap{{Digrap}Digrap}Digrap}
graph{DIGRA{DIGRA}}
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package testblas

import (
 "fmt"
 "testing"
```

```
 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
)

type Ztrmmer interface {
 Ztrmm(side blas.Side, uplo blas.Uplo, trans blas.Transpose, diag blas.Diag, m, n int, alpha complex128, a
[]complex128, lda int, b []complex128, ldb int)
}

func ZtrmmTest(t *testing.T, impl Ztrmmer) {
 for _, side := range []blas.Side{blas.Left, blas.Right} {
  for _, uplo := range []blas.Uplo{blas.Lower, blas.Upper} {
   for _, trans := range []blas.Transpose{blas.NoTrans, blas.Trans, blas.ConjTrans} {
    for _, diag := range []blas.Diag{blas.Unit, blas.NonUnit} {
     name := sideString(side) + "-" + uploString(uplo) + "-" + transString(trans) + "-" + diagString(diag)
     t.Run(name, func(t *testing.T) {
      for _, m := range []int{0, 1, 2, 3, 4, 5} {
       for _, n := range []int{0, 1, 2, 3,
 4, 5} {
        ztrmmTest(t, impl, side, uplo, trans, diag, m, n)
       }
      }
     })
    }
   }
  }
 }
}

func ztrmmTest(t *testing.T, impl Ztrmmer, side blas.Side, uplo blas.Uplo, trans blas.Transpose, diag blas.Diag, m,
n int) {
 const tol = 1e-13

 rnd := rand.New(rand.NewSource(1))

 nA := m
 if side == blas.Right {
  nA = n
 }
 for _, lda := range []int{max(1, nA), nA + 2} {
  for _, ldb := range []int{max(1, n), n + 3} {
   for _, alpha := range []complex128{0, 1, complex(0.7, -0.9)} {
    // Allocate the matrix A and fill it with random numbers.
    a := make([]complex128, nA*lda)
    for i := range a {
     a[i] = rndComplex128(rnd)
    }
```

```
  // Put a zero into A to cover special cases in Ztrmm.
  if nA > 1 {
   if uplo == blas.Upper {
    a[nA-1] = 0
   } else {
    a[(nA-1)*lda] = 0
   }
  }
  // Create a copy of A for checking that Ztrmm
  // does not modify its triangle opposite to
  // uplo.
  aCopy := make([]complex128, len(a))
  copy(aCopy,
a)
  // Create a dense representation of A for
  // computing the expected result using zmm.
  aTri := make([]complex128, len(a))
  copy(aTri, a)
  if uplo == blas.Upper {
   for i := 0; i < nA; i++ {
    // Zero out the lower triangle.
    for j := 0; j < i; j++ {
     aTri[i*lda+j] = 0
    }
    if diag == blas.Unit {
     aTri[i*lda+i] = 1
    }
   }
  } else {
   for i := 0; i < nA; i++ {
    if diag == blas.Unit {
     aTri[i*lda+i] = 1
    }
    // Zero out the upper triangle.
    for j := i + 1; j < nA; j++ {
     aTri[i*lda+j] = 0
    }
   }
  }

  // Allocate the matrix B and fill it with random numbers.
  b := make([]complex128, m*ldb)
  for i := range b {
   b[i] = rndComplex128(rnd)
  }
  // Put a zero into B to cover special cases in Ztrmm.
  if m > 0 && n > 0 {
   b[0] = 0
```

```
    }

    // Compute the expected result using an internal Zgemm implementation.
    var want []complex128
    if side == blas.Left {
     want
 = zmm(trans, blas.NoTrans, m, n, m, alpha, aTri, lda, b, ldb, 0, b, ldb)
    } else {
     want = zmm(blas.NoTrans, trans, m, n, n, alpha, b, ldb, aTri, lda, 0, b, ldb)
    }

    // Compute the result using Ztrmm.
    impl.Ztrmm(side, uplo, trans, diag, m, n, alpha, a, lda, b, ldb)

    prefix := fmt.Sprintf("m=%v,n=%v,lda=%v,ldb=%v,alpha=%v", m, n, lda, ldb, alpha)
    if !zsame(a, aCopy) {
     t.Errorf("%v: unexpected modification of A", prefix)
     continue
    }

    if !zEqualApprox(b, want, tol) {
     t.Errorf("%v: unexpected result", prefix)
    }
   }
  }
 }
}
*> \brief \b DNRM2
*
*  =========== DOCUMENTATION ===========
*
* Online html documentation available at
*            http://www.netlib.org/lapack/explore-html/
*
*  Definition:
*  ===========
*
*       DOUBLE PRECISION FUNCTION DNRM2(N,X,INCX)
*
*       .. Scalar Arguments ..
*       INTEGER INCX,N
*       ..
*       .. Array Arguments ..
*       DOUBLE PRECISION X(*)
*       ..
*
*
*> \par Purpose:
```

```
*  =============
*>
*> \verbatim
*>
*> DNRM2 returns the euclidean norm of a vector via the function
*> name, so that
*>
*>    DNRM2 := sqrt( x'*x )
*> \endverbatim
*
*  Authors:
*  ========
*
*> \author Univ. of Tennessee
*> \author Univ. of California Berkeley
*> \author Univ. of Colorado Denver
*> \author NAG Ltd.
*
*> \date November 2011
*
*> \ingroup double_blas_level1
*
*> \par Further Details:
*  =====================
*>
*> \verbatim
*>
*>  -- This version written on 25-October-1982.
*>     Modified on 14-October-1993 to inline the call to DLASSQ.
*>     Sven Hammarling, Nag
 Ltd.
*> \endverbatim
*>
*  ======================================================================
      DOUBLE PRECISION FUNCTION DNRM2(N,X,INCX)
*
*  -- Reference BLAS level1 routine (version 3.4.0) --
*  -- Reference BLAS is a software package provided by Univ. of Tennessee,    --
*  -- Univ. of California Berkeley, Univ. of Colorado Denver and NAG Ltd..--
*     November 2011
*
*     .. Scalar Arguments ..
      INTEGER INCX,N
*     ..
*     .. Array Arguments ..
      DOUBLE PRECISION X(*)
*     ..
*
```

```
*  =====================================================================
*
*     .. Parameters ..
      DOUBLE PRECISION ONE,ZERO
      PARAMETER (ONE=1.0D+0,ZERO=0.0D+0)
*     ..
*     .. Local Scalars ..
      DOUBLE PRECISION ABSXI,NORM,SCALE,SSQ
      INTEGER IX
*     ..
*     .. Intrinsic Functions ..
      INTRINSIC ABS,SQRT
*     ..
      IF (N.LT.1 .OR. INCX.LT.1) THEN
         NORM = ZERO
      ELSE IF (N.EQ.1) THEN
         NORM = ABS(X(1))
      ELSE
         SCALE = ZERO
          SSQ = ONE
*         The following loop is equivalent to this call to the LAPACK
*         auxiliary routine:
*         CALL DLASSQ( N, X, INCX, SCALE, SSQ )
*
         DO 10 IX = 1,1 + (N-1)*INCX,INCX
            IF (X(IX).NE.ZERO) THEN
               ABSXI = ABS(X(IX))
               IF (SCALE.LT.ABSXI) THEN
                  SSQ = ONE + SSQ* (SCALE/ABSXI)**2
                  SCALE = ABSXI
               ELSE
                  SSQ = SSQ + (ABSXI/SCALE)**2
               END IF
            END IF
   10    CONTINUE
         NORM = SCALE*SQRT(SSQ)
      END IF
*
      DNRM2 = NORM
      RETURN
*
*     End of DNRM2.
*
      END
graph{{{{GrI}}GrH}}
graph{{sq{sq{sq sq}sq}sq}}
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```

```
// license that can be found in the LICENSE file.

// Package blas64 provides a simple interface to the float64 BLAS API.
package blas64 // import "gonum.org/v1/gonum/blas/blas64"
graph{{SUBGRA_}SUBGRA_}
Graph{Subgrg{{{Subgrg}{Subgrg}}}}
graph{{DG{DG{DG}DG}}}
graph{{{subg_}subg_}}
graph{{{ED8}}}
graph{GRAP0{GRAP1}GRAP0{GRAP1}GRAP9}
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package testblas

import (
 "testing"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/floats"
)

type Dsyr2er interface {
 Dsyr2(ul blas.Uplo, n int, alpha float64, x []float64, incX int, y []float64, incY int, a []float64, lda int)
}

func Dsyr2Test(t *testing.T, blasser Dsyr2er) {
 for i, test := range []struct {
  n     int
  a     [][]float64
  ul    blas.Uplo
  x     []float64
  y     []float64
  alpha float64
  ans   [][]float64
 }{
  {
   n: 3,
   a: [][]float64{
    {7, 2, 4},
    {0, 3, 5},
    {0, 0, 6},
   },
   x:     []float64{2, 3, 4},
   y:     []float64{5, 6, 7},
   alpha: 2,
   ul:    blas.Upper,
```

```
  ans: [][]float64{
   {47, 56, 72},
   {0, 75, 95},
   {0, 0, 118},
  },
 },
 {
  n: 3,
  a: [][]float64{
   {7, 0, 0},
   {2, 3, 0},
   {4, 5, 6},
  },
  x:     []float64{2, 3, 4},
  y:     []float64{5,
6, 7},
  alpha: 2,
  ul:    blas.Lower,
  ans: [][]float64{
   {47, 0, 0},
   {56, 75, 0},
   {72, 95, 118},
  },
 },
} {
 incTest := func(incX, incY, extra int) {
  aFlat := flatten(test.a)
  x := makeIncremented(test.x, incX, extra)
  y := makeIncremented(test.y, incY, extra)
  blasser.Dsyr2(test.ul, test.n, test.alpha, x, incX, y, incY, aFlat, test.n)
  ansFlat := flatten(test.ans)
  if !floats.EqualApprox(aFlat, ansFlat, 1e-14) {
   t.Errorf("Case %v, incX = %v, incY = %v. Want %v, got %v.", i, incX, incY, ansFlat, aFlat)
  }
 }
 incTest(1, 1, 0)
 incTest(-2, 1, 0)
 incTest(-2, 3, 0)
 incTest(2, -3, 0)
 incTest(3, -2, 0)
 incTest(-3, -4, 0)
}
}
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package testblas
```

```
import (
 "fmt"
 "math/cmplx"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
)

type Zherker interface {
 Zherk(uplo blas.Uplo, trans blas.Transpose, n, k int, alpha float64, a []complex128, lda int, beta float64, c
[]complex128, ldc int)
}

func ZherkTest(t *testing.T, impl Zherker) {
 for _, uplo := range []blas.Uplo{blas.Upper, blas.Lower} {
  for _, trans := range []blas.Transpose{blas.NoTrans, blas.ConjTrans} {
   name := uploString(uplo) + "-" + transString(trans)
   t.Run(name, func(t *testing.T) {
    for _, n := range []int{0, 1, 2, 3, 4, 5} {
     for _, k := range []int{0, 1, 2, 3, 4, 5, 7} {
      zherkTest(t, impl, uplo, trans, n, k)
     }
    }
   })
  }
 }
}

func zherkTest(t *testing.T, impl Zherker, uplo blas.Uplo, trans blas.Transpose, n, k int) {
 const tol = 1e-13

 rnd
 := rand.New(rand.NewSource(1))

 rowA, colA := n, k
 if trans == blas.ConjTrans {
  rowA, colA = k, n
 }
 for _, lda := range []int{max(1, colA), colA + 2} {
  for _, ldc := range []int{max(1, n), n + 4} {
   for _, alpha := range []float64{0, 1, 0.7} {
    for _, beta := range []float64{0, 1, 1.3} {
     // Allocate the matrix A and fill it with random numbers.
     a := make([]complex128, rowA*lda)
     for i := range a {
```

```
 a[i] = rndComplex128(rnd)
}
// Create a copy of A for checking that
// Zherk does not modify A.
aCopy := make([]complex128, len(a))
copy(aCopy, a)

// Allocate the matrix C and fill it with random numbers.
c := make([]complex128, n*ldc)
for i := range c {
 c[i] = rndComplex128(rnd)
}
if (alpha == 0 || k == 0) && beta == 1 {
 // In case of a quick return
 // zero out the diagonal.
 for i := 0; i < n; i++ {
  c[i*ldc+i] = complex(real(c[i*ldc+i]), 0)
 }
}
// Create a copy of
C for checking that
// Zherk does not modify its triangle
// opposite to uplo.
cCopy := make([]complex128, len(c))
copy(cCopy, c)
// Create a copy of C expanded into a
// full hermitian matrix for computing
// the expected result using zmm.
cHer := make([]complex128, len(c))
copy(cHer, c)
if uplo == blas.Upper {
 for i := 0; i < n; i++ {
  cHer[i*ldc+i] = complex(real(cHer[i*ldc+i]), 0)
  for j := i + 1; j < n; j++ {
   cHer[j*ldc+i] = cmplx.Conj(cHer[i*ldc+j])
  }
 }
} else {
 for i := 0; i < n; i++ {
  for j := 0; j < i; j++ {
   cHer[j*ldc+i] = cmplx.Conj(cHer[i*ldc+j])
  }
  cHer[i*ldc+i] = complex(real(cHer[i*ldc+i]), 0)
 }
}

// Compute the expected result using an internal Zgemm implementation.
var want []complex128
```

```
    if trans == blas.NoTrans {
     want = zmm(blas.NoTrans, blas.ConjTrans, n, n, k, complex(alpha, 0), a, lda, a, lda, complex(beta,
0), cHer, ldc)
    } else {
     want = zmm(blas.ConjTrans, blas.NoTrans, n, n, k, complex(alpha, 0), a, lda, a, lda, complex(beta, 0), cHer, ldc)
    }

    // Compute the result using Zherk.
    impl.Zherk(uplo, trans, n, k, alpha, a, lda, beta, c, ldc)

    prefix := fmt.Sprintf("n=%v,k=%v,lda=%v,ldc=%v,alpha=%v,beta=%v", n, k, lda, ldc, alpha, beta)

    if !zsame(a, aCopy) {
     t.Errorf("%v: unexpected modification of A", prefix)
     continue
    }
    if uplo == blas.Upper && !zSameLowerTri(n, c, ldc, cCopy, ldc) {
     t.Errorf("%v: unexpected modification in lower triangle of C", prefix)
     continue
    }
    if uplo == blas.Lower && !zSameUpperTri(n, c, ldc, cCopy, ldc) {
     t.Errorf("%v: unexpected modification in upper triangle of C", prefix)
     continue
    }

    // Check that the diagonal of C has only real elements.
    hasRealDiag := true
    for i := 0; i < n; i++ {
     if imag(c[i*ldc+i]) != 0 {
      hasRealDiag = false
      break
     }
    }
    if
!hasRealDiag {
     t.Errorf("%v: diagonal of C has imaginary elements\ngot=%v", prefix, c)
     continue
    }

    // Expand C into a full hermitian matrix
    // for comparison with the result from zmm.
    if uplo == blas.Upper {
     for i := 0; i < n-1; i++ {
      for j := i + 1; j < n; j++ {
       c[j*ldc+i] = cmplx.Conj(c[i*ldc+j])
      }
     }
    } else {
```

```
      for i := 1; i < n; i++ {
       for j := 0; j < i; j++ {
        c[j*ldc+i] = cmplx.Conj(c[i*ldc+j])
       }
      }
     }
     if !zEqualApprox(c, want, tol) {
      t.Errorf("%v: unexpected result\nwant=%v\ngot= %v", prefix, want, c)
     }
    }
   }
  }
 }
}
graph{{striN}{striN}}
digraph{B C}
// SPDX-License-Identifier: Unlicense OR MIT

package opconst

type OpType byte

// Start at a high number for easier debugging.
const firstOpIndex = 200

const (
 TypeMacroDef OpType = iota + firstOpIndex
 TypeMacro
 TypeTransform
 TypeLayer
 TypeInvalidate
 TypeImage
 TypePaint
 TypeColor
 TypeArea
 TypePointerInput
 TypePass
 TypeKeyInput
 TypeHideInput
 TypePush
 TypePop
 TypeAux
 TypeClip
 TypeProfile
 TypeCall
)

const (
```

```
 TypeMacroDefLen     = 1 + 4 + 4
 TypeMacroLen        = 1 + 4 + 4
 TypeTransformLen    = 1 + 4*2
 TypeLayerLen        = 1
 TypeRedrawLen       = 1 + 8
 TypeImageLen        = 1
 TypePaintLen        = 1 + 4*4
 TypeColorLen        = 1 + 4
 TypeAreaLen         = 1 + 1 + 4*4
 TypePointerInputLen = 1 + 1
 TypePassLen         = 1 + 1
 TypeKeyInputLen     = 1 + 1
 TypeHideInputLen    = 1
 TypePushLen         = 1
 TypePopLen          = 1
 TypeAuxLen          = 1
 TypeClipLen         = 1 + 4*4
 TypeProfileLen      = 1
 TypeCallLen         = 1
)

func (t OpType) Size() int {
 return
 [...]int{
  TypeMacroDefLen,
  TypeMacroLen,
  TypeTransformLen,
  TypeLayerLen,
  TypeRedrawLen,
  TypeImageLen,
  TypePaintLen,
  TypeColorLen,
  TypeAreaLen,
  TypePointerInputLen,
  TypePassLen,
  TypeKeyInputLen,
  TypeHideInputLen,
  TypePushLen,
  TypePopLen,
  TypeAuxLen,
  TypeClipLen,
  TypeProfileLen,
  TypeCallLen,
 }[t-firstOpIndex]
}

func (t OpType) NumRefs() int {
 switch t {
```

```
 case TypeKeyInput, TypePointerInput, TypeProfile, TypeCall:
  return 1
 case TypeImage:
  return 2
 default:
  return 0
 }
}
graph{{su_}{su_}}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "fmt"
 "testing"
)

func TestVoltageFormat(t *testing.T) {
 for _, test := range []struct {
  value  Voltage
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 V"},
  {1.23456789, "%.1v", "1 V"},
  {1.23456789, "%20.1v", "                 1 V"},
  {1.23456789, "%20v", "        1.23456789 V"},
  {1.23456789, "%1v", "1.23456789 V"},
  {1.23456789, "%#v", "unit.Voltage(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Voltage=1.23456789 V)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
graph{{G_{G_ G_}G_}}
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package testlapack
```

```
import (
 "math"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
 "gonum.org/v1/gonum/floats"
)

type Dlags2er interface {
 Dlags2(upper bool, a1, a2, a3, b1, b2, b3 float64) (csu, snu, csv, snv, csq, snq float64)
}

func Dlags2Test(t *testing.T, impl Dlags2er) {
 rnd := rand.New(rand.NewSource(1))
 for _, upper := range []bool{true, false} {
  for i := 0; i < 100; i++ {
   // Generate randomly the elements of a 22 matrix A
   //  [ a1 a2 ] or [ a1 0  ]
   //  [ 0  a3 ]    [ a2 a3 ]
   a1 := rnd.Float64()
   a2 := rnd.Float64()
   a3 := rnd.Float64()
   // Generate randomly the elements of a 22 matrix B.
   //  [ b1 b2 ] or [ b1 0  ]
   //  [ 0  b3 ]    [ b2 b3 ]
   b1 := rnd.Float64()
   b2 := rnd.Float64()
   b3 := rnd.Float64()

   // Compute orthogal matrices
  U, V, Q
   //  U = [  csu  snu ], V = [  csv snv ], Q = [  csq   snq ]
   //      [ -snu  csu ]      [ -snv csv ]      [ -snq   csq ]
   // that transform A and B.
   csu, snu, csv, snv, csq, snq := impl.Dlags2(upper, a1, a2, a3, b1, b2, b3)

   // Check that U, V, Q are orthogonal matrices (their
   // determinant is equal to 1).
   detU := det2x2(csu, snu, -snu, csu)
   if !floats.EqualWithinAbsOrRel(math.Abs(detU), 1, 1e-14, 1e-14) {
    t.Errorf("U not orthogonal: det(U)=%v", detU)
   }
   detV := det2x2(csv, snv, -snv, csv)
   if !floats.EqualWithinAbsOrRel(math.Abs(detV), 1, 1e-14, 1e-14) {
```

```
 t.Errorf("V not orthogonal: det(V)=%v", detV)
}
detQ := det2x2(csq, snq, -snq, csq)
if !floats.EqualWithinAbsOrRel(math.Abs(detQ), 1, 1e-14, 1e-14) {
 t.Errorf("Q not orthogonal: det(Q)=%v", detQ)
}

// Create U, V, Q explicitly as dense matrices.
u := blas64.General{
 Rows:   2,
 Cols:   2,
 Stride: 2,
 Data:   []float64{csu, snu, -snu, csu},
}
v
:= blas64.General{
 Rows:   2,
 Cols:   2,
 Stride: 2,
 Data:   []float64{csv, snv, -snv, csv},
}
q := blas64.General{
 Rows:   2,
 Cols:   2,
 Stride: 2,
 Data:   []float64{csq, snq, -snq, csq},
}

// Create A and B explicitly as dense matrices.
a := blas64.General{Rows: 2, Cols: 2, Stride: 2}
b := blas64.General{Rows: 2, Cols: 2, Stride: 2}
if upper {
 a.Data = []float64{a1, a2, 0, a3}
 b.Data = []float64{b1, b2, 0, b3}
} else {
 a.Data = []float64{a1, 0, a2, a3}
 b.Data = []float64{b1, 0, b2, b3}
}

tmp := blas64.General{Rows: 2, Cols: 2, Stride: 2, Data: make([]float64, 4)}
// Transform A as U*A*Q.
blas64.Gemm(blas.Trans, blas.NoTrans, 1, u, a, 0, tmp)
blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, tmp, q, 0, a)
// Transform B as V*A*Q.
blas64.Gemm(blas.Trans, blas.NoTrans, 1, v, b, 0, tmp)
blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, tmp, q, 0, b)

// Extract elements of transformed A and B that should
```

```
 be equal to zero.
   var gotA, gotB float64
   if upper {
    gotA = a.Data[1]
    gotB = b.Data[1]
   } else {
    gotA = a.Data[2]
    gotB = b.Data[2]
   }
   // Check that they are indeed zero.
   if !floats.EqualWithinAbsOrRel(gotA, 0, 1e-14, 1e-14) {
    t.Errorf("unexpected non-zero value for zero triangle of U*A*Q: %v", gotA)
   }
   if !floats.EqualWithinAbsOrRel(gotB, 0, 1e-14, 1e-14) {
    t.Errorf("unexpected non-zero value for zero triangle of V*B*Q: %v", gotB)
   }
  }
 }
}

func det2x2(a, b, c, d float64) float64 { return a*d - b*c }
graph{STRICm{STRICu}}
graph{{{sua}{sua}{sua}}}
digraph {r[l=" "]a:a->b:t a:1d:2y:""c:""d:d->x:""c:""y:""b:t->z:""}
graph{{digr_}digr_}
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package mathext

import (
 "math"
 "testing"

 "gonum.org/v1/gonum/floats"
)

var result float64

func TestDigamma(t *testing.T) {
 const tol = 1e-10

 for i, test := range []struct {
  x, want float64
 }{
  // Results computed using WolframAlpha.
  {0.0, math.Inf(-1)},
```

```
  {math.Copysign(0.0, -1.0), math.Inf(1)},
  {math.Inf(1), math.Inf(1)},
  {math.Inf(-1), math.NaN()},
  {math.NaN(), math.NaN()},
  {-1.0, math.NaN()},
  {-100.5, 4.615124601338064117341315601525112558522917517910505881343},
  {.5, -1.963510026021423479440976332998755567193159604660 43},
  {10, 2.251752589066721107647456163885851537211808918028330369448},
  {math.Pow10(20), 46.05170185988091368035482909368728415202202143924212618733},
  {-1.111111111e9, math.NaN()},
  {1.46, -0.0015805619870834176761055440235670343483395201 10000},
 } {

  got := Digamma(test.x)
  if
 !(math.IsNaN(got) && math.IsNaN(test.want)) && !floats.EqualWithinAbsOrRel(got, test.want, tol, tol) {
   t.Errorf("test %d Digamma(%g) failed: got %g want %g", i, test.x, got, test.want)
  }
 }
}

func BenchmarkDigamma(b *testing.B) {
 var r float64
 for i := 0; i < b.N; i++ {
  r = Digamma(-1.111111111e9)
 }
 result = r
}
digraph{gre}
graph{<NN>}
graph{SUBG}
graph{{S_{S_{}S_}S_}}
graph{diGr}
graph{Subg_{Subg_{{Subg_{Subg_{Subg_}}}}}}
//** lang.yottadb.com/go/yottadb@v1.1.0 **//

{{Types "AGPL-3.0"}}
```

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This clarification is the same as that which also has been made on multiple occasions (e.g., https://groups.google.com/d/msg/hardhats/A4qV-L4ZCjk/xf4fBWm2iisJ)
 by the upstream GT.M project.

If you submit source code you would like YottaDB to include, please ensure that you understand and agree with the above clarification.
graph{G:c J:c J:c J:c J:c}
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```
package f64

import (
 "fmt"
 "testing"

 "golang.org/x/exp/rand"
)

var scalTests = []struct {
 alpha float64
 x     []float64
 want  []float64
}{
 {
  alpha: 0,
  x:     []float64{},
  want:  []float64{},
 },
 {
  alpha: 0,
  x:     []float64{1},
  want:  []float64{0},
```

```
},
{
 alpha: 1,
 x:     []float64{1},
 want:  []float64{1},
},
{
 alpha: 2,
 x:     []float64{1, -2},
 want:  []float64{2, -4},
},
{
 alpha: 2,
 x:     []float64{1, -2, 3},
 want:  []float64{2, -4, 6},
},
{
 alpha: 2,
 x:     []float64{1, -2, 3, 4},
 want:  []float64{2, -4, 6, 8},
},
{
 alpha: 2,
 x:     []float64{1, -2, 3, 4, -5},
 want:  []float64{2, -4, 6, 8, -10},
},
{
 alpha: 2,
 x:     []float64{0, 1, -2, 3, 4, -5, 6, -7},
 want:  []float64{0, 2, -4, 6, 8, -10, 12, -14},
},
{
 alpha: 2,
 x:     []float64{0, 1, -2, 3, 4,
-5, 6, -7, 8},
 want:  []float64{0, 2, -4, 6, 8, -10, 12, -14, 16},
},
{
 alpha: 2,
 x:     []float64{0, 1, -2, 3, 4, -5, 6, -7, 8, 9},
 want:  []float64{0, 2, -4, 6, 8, -10, 12, -14, 16, 18},
},
{
 alpha: 3,
 x:     []float64{0, 1, -2, 3, 4, -5, 6, -7, 8, 9, 12},
 want:  []float64{0, 3, -6, 9, 12, -15, 18, -21, 24, 27, 36},
},
}
```

```
func TestScalUnitary(t *testing.T) {
 const xGdVal = -0.5
 for i, test := range scalTests {
  for _, align := range align1 {
   prefix := fmt.Sprintf("Test %v (x:%v)", i, align)
   xgLn := 4 + align
   xg := guardVector(test.x, xGdVal, xgLn)
   x := xg[xgLn : len(xg)-xgLn]

   ScalUnitary(test.alpha, x)

   for i := range test.want {
    if !same(x[i], test.want[i]) {
     t.Errorf(msgVal, prefix, i, x[i], test.want[i])
    }
   }
   if !isValidGuard(xg, xGdVal, xgLn) {
    t.Errorf(msgGuard, prefix, "x", xg[:xgLn], xg[len(xg)-xgLn:])
   }
  }
 }
}

func TestScalUnitaryTo(t *testing.T) {
 const xGdVal, dstGdVal = -1, 0.5
 rng := rand.New(rand.NewSource(42))
 for
 i, test := range scalTests {
  n := len(test.x)
  for _, align := range align2 {
   prefix := fmt.Sprintf("Test %v (x:%v dst:%v)", i, align.x, align.y)
   xgLn, dgLn := 4+align.x, 4+align.y
   xg := guardVector(test.x, xGdVal, xgLn)
   dg := guardVector(randSlice(n, 1, rng), dstGdVal, dgLn)
   x, dst := xg[xgLn:len(xg)-xgLn], dg[dgLn:len(dg)-dgLn]

   ScalUnitaryTo(dst, test.alpha, x)

   for i := range test.want {
    if !same(dst[i], test.want[i]) {
     t.Errorf(msgVal, prefix, i, dst[i], test.want[i])
    }
   }
   if !isValidGuard(xg, xGdVal, xgLn) {
    t.Errorf(msgGuard, prefix, "x", xg[:xgLn], xg[len(xg)-xgLn:])
   }
   if !isValidGuard(dg, dstGdVal, dgLn) {
```

```
    t.Errorf(msgGuard, prefix, "y", dg[:dgLn], dg[len(dg)-dgLn:])
   }
   if !equalStrided(test.x, x, 1) {
    t.Errorf(msgReadOnly, prefix, "x")
   }
  }
 }
}

func TestScalInc(t *testing.T) {
 const xGdVal = -0.5
 gdLn := 4
 for i, test := range scalTests {
  n := len(test.x)
  for _, incX := range []int{1,
 2, 3, 4, 7, 10} {
   prefix := fmt.Sprintf("Test %v (x:%v)", i, incX)
   xg := guardIncVector(test.x, xGdVal, incX, gdLn)
   x := xg[gdLn : len(xg)-gdLn]

   ScalInc(test.alpha, x, uintptr(n), uintptr(incX))

   for i := range test.want {
    if !same(x[i*incX], test.want[i]) {
     t.Errorf(msgVal, prefix, i, x[i*incX], test.want[i])
    }
   }
   checkValidIncGuard(t, xg, xGdVal, incX, gdLn)
  }
 }
}

func TestScalIncTo(t *testing.T) {
 const xGdVal, dstGdVal = -1, 0.5
 gdLn := 4
 rng := rand.New(rand.NewSource(42))
 for i, test := range scalTests {
  n := len(test.x)
  for _, inc := range newIncSet(1, 2, 3, 4, 7, 10) {
   prefix := fmt.Sprintf("test %v (x:%v dst:%v)", i, inc.x, inc.y)
   xg := guardIncVector(test.x, xGdVal, inc.x, gdLn)
   dg := guardIncVector(randSlice(n, 1, rng), dstGdVal, inc.y, gdLn)
   x, dst := xg[gdLn:len(xg)-gdLn], dg[gdLn:len(dg)-gdLn]

   ScalIncTo(dst, uintptr(inc.y), test.alpha, x, uintptr(n), uintptr(inc.x))

   for i := range test.want {
    if !same(dst[i*inc.y],
```

```
 test.want[i]) {
     t.Errorf(msgVal, prefix, i, dst[i*inc.y], test.want[i])
    }
   }
   checkValidIncGuard(t, xg, xGdVal, inc.x, gdLn)
   checkValidIncGuard(t, dg, dstGdVal, inc.y, gdLn)
   if !equalStrided(test.x, x, inc.x) {
    t.Errorf("%v: modified read-only x argument", prefix)
   }

  }
 }
}
graph{{Digrh}Digrr}
graph{"\\3\\3\\3"{"\\3\\3\\3"}}
Graph{{{{subgr_}subgr_}}subgr_}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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// license that can be found in the LICENSE file.

package unit

import (
 "errors"
 "fmt"
 "math"
 "unicode/utf8"
)

// Radioactivity represents a rate of radioactive decay in becquerels.
type Radioactivity float64

const Becquerel Radioactivity = 1

// Unit converts the Radioactivity to a *Unit
func (r Radioactivity) Unit() *Unit {
 return New(float64(r), Dimensions{
  TimeDim: -1,
 })
}

// Radioactivity allows Radioactivity to implement a Radioactivityer interface
func (r Radioactivity) Radioactivity() Radioactivity {
 return r
}
```

```
// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (r *Radioactivity) From(u Uniter) error {
 if !DimensionsMatch(u, Becquerel) {
  *r = Radioactivity(math.NaN())
  return errors.New("Dimension mismatch")
 }
 *r = Radioactivity(u.Unit().Value())
 return
 nil
}

func (r Radioactivity) Format(fs fmt.State, c rune) {
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", r, float64(r))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " Bq"
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(r))
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(r))
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(r))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(r))
  }
  fmt.Fprint(fs, unit)
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g Bq)", c, r, float64(r))
 }
}
graph{___}
graph{{nod}nod{nod}}
graph{{{n}}}
graph{{{subG}{subG}}}
// SPDX-License-Identifier: Unlicense OR MIT

package gl

import "syscall/js"
```

```
type (
 Buffer       js.Value
 Framebuffer  js.Value
 Program      js.Value
 Renderbuffer js.Value
 Shader       js.Value
 Texture      js.Value
 Query        js.Value
 Uniform      js.Value
 Object       js.Value
)

func (p Program) Valid() bool {
 return !js.Value(p).IsUndefined() && !js.Value(p).IsNull()
}

func (s Shader) Valid() bool {
 return !js.Value(s).IsUndefined() && !js.Value(s).IsNull()
}

func (u Uniform) Valid() bool {
 return !js.Value(u).IsUndefined() && !js.Value(u).IsNull()
}

func (t Texture) Valid() bool {
 return !js.Value(t).IsUndefined() && !js.Value(t).IsNull()
}

func (t Texture) Equal(t2 Texture) bool {
 return js.Value(t).Equal(js.Value(t2))
}
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// license that can be found in the LICENSE file.

package gonum

import (
 "math"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
 "gonum.org/v1/gonum/lapack"
)

// Dtrcon estimates the reciprocal of the condition number of a triangular matrix A.
// The condition number computed may be based on the 1-norm or the -norm.
```

```
//
// work is a temporary data slice of length at least 3*n and Dtrcon will panic otherwise.
//
// iwork is a temporary data slice of length at least n and Dtrcon will panic otherwise.
func (impl Implementation) Dtrcon(norm lapack.MatrixNorm, uplo blas.Uplo, diag blas.Diag, n int, a []float64, lda
int, work []float64, iwork []int) float64 {
 switch {
 case norm != lapack.MaxColumnSum && norm != lapack.MaxRowSum:
  panic(badNorm)
 case uplo != blas.Upper && uplo != blas.Lower:
  panic(badUplo)
 case diag != blas.NonUnit && diag != blas.Unit:
  panic(badDiag)
 case
 n < 0:
  panic(nLT0)
 case lda < max(1, n):
  panic(badLdA)
 }

 if n == 0 {
  return 1
 }

 switch {
 case len(a) < (n-1)*lda+n:
  panic(shortA)
 case len(work) < 3*n:
  panic(shortWork)
 case len(iwork) < n:
  panic(shortIWork)
 }

 bi := blas64.Implementation()

 var rcond float64
 smlnum := dlamchS * float64(n)

 anorm := impl.Dlantr(norm, uplo, diag, n, n, a, lda, work)

 if anorm <= 0 {
  return rcond
 }
 var ainvnm float64
 var normin bool
 kase1 := 2
 if norm == lapack.MaxColumnSum {
  kase1 = 1
```

```
 }
 var kase int
 isave := new([3]int)
 var scale float64
 for {
  ainvnm, kase = impl.Dlacn2(n, work[n:], work, iwork, ainvnm, kase, isave)
  if kase == 0 {
   if ainvnm != 0 {
    rcond = (1 / anorm) / ainvnm
   }
   return rcond
  }
  if kase == kase1 {
   scale = impl.Dlatrs(uplo, blas.NoTrans, diag, normin, n, a, lda, work, work[2*n:])
  } else {
   scale = impl.Dlatrs(uplo, blas.Trans, diag, normin, n, a, lda, work, work[2*n:])
  }
  normin = true
  if scale != 1
  {
   ix := bi.Idamax(n, work, 1)
   xnorm := math.Abs(work[ix])
   if scale == 0 || scale < xnorm*smlnum {
    return rcond
   }
   impl.Drscl(n, scale, work, 1)
  }
 }
}
graph{SubGraB}
graph{{GS{GS}{GS{GS}{GS}}}}
// SPDX-License-Identifier: Unlicense OR MIT

package layout

import (
 "image"
 "math"
 "time"

 "gioui.org/io/event"
 "gioui.org/io/system"
 "gioui.org/op"
 "gioui.org/unit"
)

// Context carries the state needed by almost all layouts and widgets.
// A zero value Context never returns events, map units to pixels
```

```
// with a scale of 1.0, and returns the zero time from Now.
type Context struct {
 // Constraints track the constraints for the active widget or
 // layout.
 Constraints Constraints
 // Dimensions track the result of the most recent layout
 // operation.
 Dimensions Dimensions

 cfg   system.Config
 queue event.Queue
 *op.Ops
}

// NewContext returns a Context for an event queue.
func NewContext(q event.Queue) *Context {
 return &Context{
  queue: q,
 }
}

// layout a widget with a set of constraints and return its
// dimensions. The widget dimensions are constrained abd the previous
// constraints are restored after layout.
func ctxLayout(gtx *Context, cs Constraints, w Widget)
 Dimensions {
 saved := gtx.Constraints
 gtx.Constraints = cs
 gtx.Dimensions = Dimensions{}
 w()
 gtx.Dimensions.Size = cs.Constrain(gtx.Dimensions.Size)
 gtx.Constraints = saved
 return gtx.Dimensions
}

// Reset the context. The constraints' minimum and maximum values are
// set to the size.
func (c *Context) Reset(cfg system.Config, size image.Point) {
 c.Constraints = RigidConstraints(size)
 c.Dimensions = Dimensions{}
 c.cfg = cfg
 if c.Ops == nil {
  c.Ops = new(op.Ops)
 }
 c.Ops.Reset()
}

// Now returns the configuration time or the the zero time.
```

```
func (c *Context) Now() time.Time {
 if c.cfg == nil {
  return time.Time{}
 }
 return c.cfg.Now()
}

// Px maps the value to pixels. If no configuration is set,
// Px returns the rounded value of v.
func (c *Context) Px(v unit.Value) int {
 if c.cfg == nil {
  return int(math.Round(float64(v.V)))
 }
 return c.cfg.Px(v)
}

// Events returns the events available for the key. If no
// queue is configured, Events returns nil.
func (c
 *Context) Events(k event.Key) []event.Event {
 if c.queue == nil {
  return nil
 }
 return c.queue.Events(k)
}
graph{{diGrag}diGrai{diGrag}diGrai}
graph{{{EI}EI{{EI}EI}}}
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// license that can be found in the LICENSE file.

package testblas

import (
 "fmt"
 "testing"

 "golang.org/x/exp/rand"
 "gonum.org/v1/gonum/blas"
)

type Ztrsver interface {
 Ztrsv(uplo blas.Uplo, trans blas.Transpose, diag blas.Diag, n int, a []complex128, lda int, x []complex128, incX int)

 Ztrmver
}

func ZtrsvTest(t *testing.T, impl Ztrsver) {
```

```
 rnd := rand.New(rand.NewSource(1))
 for _, uplo := range []blas.Uplo{blas.Upper, blas.Lower} {
  for _, trans := range []blas.Transpose{blas.NoTrans, blas.Trans, blas.ConjTrans} {
   for _, diag := range []blas.Diag{blas.NonUnit, blas.Unit} {
    for _, n := range []int{0, 1, 2, 3, 4, 10} {
     for _, lda := range []int{max(1, n), n + 11} {
      for _, incX := range []int{-11, -3, -2, -1, 1, 2, 3, 7} {
       ztrsvTest(t, impl, uplo, trans, diag, n, lda, incX, rnd)
      }
     }
    }
   }
  }
 }
}

// ztrsvTest tests Ztrsv by
 checking whether Ztrmv followed by Ztrsv
// round-trip.
func ztrsvTest(t *testing.T, impl Ztrsver, uplo blas.Uplo, trans blas.Transpose, diag blas.Diag, n, lda, incX int, rnd
*rand.Rand) {
 const tol = 1e-10

 // Allocate a dense-storage triangular matrix A filled with NaNs.
 a := makeZGeneral(nil, n, n, lda)
 // Fill the referenced triangle of A with random data.
 if uplo == blas.Upper {
  for i := 0; i < n; i++ {
   for j := i; j < n; j++ {
    re := rnd.NormFloat64()
    im := rnd.NormFloat64()
    a[i*lda+j] = complex(re, im)
   }
  }
 } else {
  for i := 0; i < n; i++ {
   for j := 0; j <= i; j++ {
    re := rnd.NormFloat64()
    im := rnd.NormFloat64()
    a[i*lda+j] = complex(re, im)
   }
  }
 }
 if diag == blas.Unit {
  // The diagonal should not be referenced by Ztrmv and Ztrsv, so
  // invalidate it with NaNs.
  for i := 0; i < n; i++ {
   a[i*lda+i] = znan
```

```
 }
}
aCopy := make([]complex128, len(a))
copy(aCopy, a)

// Generate a random complex vector x.
xtest := make([]complex128,
n)
for i := range xtest {
 re := rnd.NormFloat64()
 im := rnd.NormFloat64()
 xtest[i] = complex(re, im)
}
x := makeZVector(xtest, incX)

// Store a copy of x as the correct result that we want.
want := make([]complex128, len(x))
copy(want, x)

// Compute A*x, denoting the result by b and storing it in x.
impl.Ztrmv(uplo, trans, diag, n, a, lda, x, incX)
// Solve A*x = b, that is, x = A^{-1}*b = A^{-1}*A*x.
impl.Ztrsv(uplo, trans, diag, n, a, lda, x, incX)
// If Ztrsv is correct, A^{-1}*A = I and x contains again its original value.

name := fmt.Sprintf("uplo=%v,trans=%v,diag=%v,n=%v,lda=%v,incX=%v", uplo, trans, diag, n, lda, incX)
if !zsame(a, aCopy) {
 t.Errorf("%v: unexpected modification of A", name)
}
if !zSameAtNonstrided(x, want, incX) {
 t.Errorf("%v: unexpected modification of x\nwant %v\ngot  %v", name, want, x)
}
if !zEqualApproxAtStrided(x, want, incX, tol) {
 t.Errorf("%v: unexpected result\nwant %v\ngot  %v", name, want, x)
}
}
graph{diGo}
digraph{E4}
graph{{Sub}Sub{Sub}Sub{Sub}}
graph{{SUBGS{}SUBGS{{SUBGS{SUBGS{}SUBGV}}}SUBGV}}
graph{diGr_[diGr_=""]diGr_}
graph{{diGrar{diGrar}diGrar{diGrar}diGrar}diGrar}
graph{{{di{di}{di{di{di}}di}}di}di{di{di}{di{di{{di{di}{di{{di}}}}di}}}}}
graph{eP}
graph{m:m t:NodeS}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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```

```
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package unit

import (
 "fmt"
 "testing"
)

func TestCurrentFormat(t *testing.T) {
 for _, test := range []struct {
  value  Current
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 A"},
  {1.23456789, "%.1v", "1 A"},
  {1.23456789, "%20.1v", "                 1 A"},
  {1.23456789, "%20v", "        1.23456789 A"},
  {1.23456789, "%1v", "1.23456789 A"},
  {1.23456789, "%#v", "unit.Current(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Current=1.23456789 A)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
graph{StR{StR{StR}StR}StR{StR}}
graph{{DiGrap_}}
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package testblas

import (
 "fmt"
 "testing"

 "golang.org/x/exp/rand"
)

type Zcopyer interface {
 Zcopy(n int, x []complex128, incX int, y []complex128, incY int)
}
```

```
func ZcopyTest(t *testing.T, impl Zcopyer) {
 rnd := rand.New(rand.NewSource(1))
 for n := 0; n <= 20; n++ {
  for _, inc := range allPairs([]int{-7, -3, 1, 13}, []int{-11, -5, 1, 17}) {
   incX := inc[0]
   incY := inc[1]
   aincX := abs(incX)
   aincY := abs(incY)

   var x []complex128
   if n > 0 {
    x = make([]complex128, (n-1)*aincX+1)
   }
   for i := range x {
    x[i] = znan
   }
   for i := 0; i < n; i++ {
    x[i*aincX] = complex(rnd.NormFloat64(), rnd.NormFloat64())
   }
   xCopy := make([]complex128, len(x))
   copy(xCopy, x)

   var y []complex128
   if n > 0 {
    y = make([]complex128, (n-1)*aincY+1)
   }
   for i := range y {
    y[i] = znan
   }

   want
  := make([]complex128, len(y))
   for i := range want {
    want[i] = znan
   }
   if incX*incY > 0 {
    for i := 0; i < n; i++ {
     want[i*aincY] = x[i*aincX]
    }
   } else {
    for i := 0; i < n; i++ {
     want[i*aincY] = x[(n-1-i)*aincX]
    }
   }

   impl.Zcopy(n, x, incX, y, incY)
```

```
   prefix := fmt.Sprintf("Case n=%v,incX=%v,incY=%v:", n, incX, incY)

   if !zsame(x, xCopy) {
    t.Errorf("%v: unexpected modification of x", prefix)
   }
   if !zsame(y, want) {
    t.Errorf("%v: unexpected y:\nwant %v\ngot %v", prefix, want, y)
   }
  }
 }
}
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// This file must be kept in sync with array_no_bound_checks.go.

// +build bounds

package fftpack

import "fmt"

// The types in array.go implement Fortran-like arrays for bootstrapping
// the implementation of the FFT functions translated from FFTPACK; they
// are column-major.

type twoArray struct {
 i, j    int
 jStride int
 data    []float64
}

func newTwoArray(i, j int, data []float64) twoArray {
 if len(data) < i*j {
  panic(fmt.Sprintf("short data: len(data)=%d, i=%d, j=%d", len(data), i, j))
 }
 return twoArray{
  i:       i,
  j:       j,
  jStride: i,
  data:    data[:i*j],
 }
}

func (a twoArray) at(i, j int) float64 {
 if i < 0 || a.i <= i || j < 0 || a.j <= j {
  panic(fmt.Sprintf("out of bounds at(%d, %d): bounds i=%d, j=%d", i, j, a.i, a.j))
```

```
 }
 return a.data[i+a.jStride*j]
}

func (a twoArray) set(i, j int,
 v float64) {
 if i < 0 || a.i <= i || j < 0 || a.j <= j {
  panic(fmt.Sprintf("out of bounds set(%d, %d): bounds i=%d, j=%d", i, j, a.i, a.j))
 }
 a.data[i+a.jStride*j] = v
}

func (a twoArray) add(i, j int, v float64) {
 if i < 0 || a.i <= i || j < 0 || a.j <= j {
  panic(fmt.Sprintf("out of bounds set(%d, %d): bounds i=%d, j=%d", i, j, a.i, a.j))
 }
 a.data[i+a.jStride*j] += v
}

type threeArray struct {
 i, j, k          int
 jStride, kStride int
 data             []float64
}

func newThreeArray(i, j, k int, data []float64) threeArray {
 if len(data) < i*j*k {
  panic(fmt.Sprintf("short data: len(data)=%d, i=%d, j=%d, k=%d", len(data), i, j, k))
 }
 return threeArray{
  i:       i,
  j:       j,
  k:       k,
  jStride: i,
  kStride: i * j,
  data:    data[:i*j*k],
 }
}

func (a threeArray) at(i, j, k int) float64 {
 if i < 0 || a.i <= i || j < 0 || a.j <= j || k < 0 || a.k <= k {
  panic(fmt.Sprintf("out of bounds at(%d, %d, %d): bounds i=%d, j=%d, k=%d", i, j, k, a.i, a.j, a.k))
 }
 return
 a.data[i+a.jStride*j+a.kStride*k]
}

func (a threeArray) set(i, j, k int, v float64) {
```

```
 if i < 0 || a.i <= i || j < 0 || a.j <= j || k < 0 || a.k <= k {
  panic(fmt.Sprintf("out of bounds set(%d, %d, %d): bounds i=%d, j=%d, k=%d", i, j, k, a.i, a.j, a.k))
 }
 a.data[i+a.jStride*j+a.kStride*k] = v
}
graph{diG{diG}}
graph{{{Ea}{Ea}{Ea}{Ea}{Ea}{Ea}{Ea}Ea{Ea}{Ea}{Ea}{Ea}{Ea}Ea}{Ea}{Ea}{Ea}{Ea}{Ea}}
graph{{Su}Su{Su}}
graph{Stric-9Stric}
graph{{sub{{subGra{}subGra{{subGra{}subGra}}}subGra}}}
graph{SR{{SR{}SS}}SS}
graph{{{EI}EI{{EI}EI}EI{{EI}}EI{{EI}EI}}}
graph{{{{EDG_{{{EDG_{{EDG_}EDG_}}EDG_}}}}}}
graph{nod{nod}nod{{nod}nod{nod}}}
graph{"\"\"\"\\"}
graph{{dn{dn do}do}}
graph{dir{dir{{dir{dir}}dir}}}
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// license that can be found in the LICENSE file.

package distuv

import (
 "math"

 "golang.org/x/exp/rand"
)

// UnitUniform is an instantiation of the uniform distribution with Min = 0
// and Max = 1.
var UnitUniform = Uniform{Min: 0, Max: 1}

// Uniform represents a continuous uniform distribution
(https://en.wikipedia.org/wiki/Uniform_distribution_%28continuous%29).
type Uniform struct {
 Min float64
 Max float64
 Src rand.Source
}

// CDF computes the value of the cumulative density function at x.
func (u Uniform) CDF(x float64) float64 {
 if x < u.Min {
  return 0
 }
 if x > u.Max {
  return 1
```

```
 }
 return (x - u.Min) / (u.Max - u.Min)
}

// Uniform doesn't have any of the DLogProbD? because the derivative is 0 everywhere
// except where it's undefined

// Entropy returns the entropy of the distribution.
func (u Uniform) Entropy() float64 {
 return math.Log(u.Max - u.Min)
}

//
 ExKurtosis returns the excess kurtosis of the distribution.
func (Uniform) ExKurtosis() float64 {
 return -6.0 / 5.0
}

// Uniform doesn't have Fit because it's a bad idea to fit a uniform from data.

// LogProb computes the natural logarithm of the value of the probability density function at x.
func (u Uniform) LogProb(x float64) float64 {
 if x < u.Min {
  return math.Inf(-1)
 }
 if x > u.Max {
  return math.Inf(-1)
 }
 return -math.Log(u.Max - u.Min)
}

// MarshalParameters implements the ParameterMarshaler interface
func (u Uniform) MarshalParameters(p []Parameter) {
 if len(p) != u.NumParameters() {
  panic("uniform: improper parameter length")
 }
 p[0].Name = "Min"
 p[0].Value = u.Min
 p[1].Name = "Max"
 p[1].Value = u.Max
}

// Mean returns the mean of the probability distribution.
func (u Uniform) Mean() float64 {
 return (u.Max + u.Min) / 2
}

// Median returns the median of the probability distribution.
```

```
func (u Uniform) Median() float64 {
 return (u.Max + u.Min) / 2
}

//
 Uniform doesn't have a mode because it's any value in the distribution

// NumParameters returns the number of parameters in the distribution.
func (Uniform) NumParameters() int {
 return 2
}

// Prob computes the value of the probability density function at x.
func (u Uniform) Prob(x float64) float64 {
 if x < u.Min {
  return 0
 }
 if x > u.Max {
  return 0
 }
 return 1 / (u.Max - u.Min)
}

// Quantile returns the inverse of the cumulative probability distribution.
func (u Uniform) Quantile(p float64) float64 {
 if p < 0 || p > 1 {
  panic(badPercentile)
 }
 return p*(u.Max-u.Min) + u.Min
}

// Rand returns a random sample drawn from the distribution.
func (u Uniform) Rand() float64 {
 var rnd float64
 if u.Src == nil {
  rnd = rand.Float64()
 } else {
  rnd = rand.New(u.Src).Float64()
 }
 return rnd*(u.Max-u.Min) + u.Min
}

// Skewness returns the skewness of the distribution.
func (Uniform) Skewness() float64 {
 return 0
}

// StdDev returns the standard deviation of the probability
```

```
 distribution.
func (u Uniform) StdDev() float64 {
 return math.Sqrt(u.Variance())
}

// Survival returns the survival function (complementary CDF) at x.
func (u Uniform) Survival(x float64) float64 {
 if x < u.Min {
  return 1
 }
 if x > u.Max {
  return 0
 }
 return (u.Max - x) / (u.Max - u.Min)
}

// UnmarshalParameters implements the ParameterMarshaler interface
func (u *Uniform) UnmarshalParameters(p []Parameter) {
 if len(p) != u.NumParameters() {
  panic("uniform: incorrect number of parameters to set")
 }
 if p[0].Name != "Min" {
  panic("uniform: " + panicNameMismatch)
 }
 if p[1].Name != "Max" {
  panic("uniform: " + panicNameMismatch)
 }

 u.Min = p[0].Value
 u.Max = p[1].Value
}

// Variance returns the variance of the probability distribution.
func (u Uniform) Variance() float64 {
 return 1.0 / 12.0 * (u.Max - u.Min) * (u.Max - u.Min)
}
graph{{DiGrar}}
graph{{{{DiGrr{{{DiGre}}DiGru}}DiGrr{{{DiGre}{DiGre}}DiGru}{DiGru}}}DiGru}
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// Package set provides integer and graph.Node sets.
package set // import "gonum.org/v1/gonum/graph/internal/set"
graph{DIG9{DIG9}}
graph{" "" "" "" "" "" "" "" "" "" "}
graph{{NOD0}NOD0}
```

```
graph{strih{{{strih{strih{strii}}}}strih{strih{{strih{strih{strii}}}}}}}
graph{STR}
graph{{{diGs}{diGs}{diGs{diGt}}{diGs{}}{diGs{}{diGt}}{diGs{}}{{}{}{diGt}{}}}}
graph{{STV}STV{STV}STV{STV}ST{STV}{STV}STV{STV}}
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package sampleuv

import (
 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/floats"
)

// Weighted provides sampling without replacement from a collection of items with
// non-uniform probability.
type Weighted struct {
 weights []float64
 // heap is a weight heap.
 //
 // It keeps a heap-organised sum of remaining
 // index weights that are available to be taken
 // from.
 //
 // Each element holds the sum of weights for
 // the corresponding index, plus the sum of
 // its children's weights; the children of
 // an element i can be found at positions
 // 2*(i+1)-1 and 2*(i+1). The root of the
 // weight heap is at element 0.
 //
 // See comments in container/heap for an
 // explanation of the layout of a heap.
 heap []float64
 rnd  *rand.Rand
}

// NewWeighted returns a Weighted for the weights w. If src is nil, rand.Rand is
// used as
 the random number generator.
//
// Note that sampling from weights with a high variance or overall low absolute
// value sum may result in problems with numerical stability.
func NewWeighted(w []float64, src rand.Source) Weighted {
 s := Weighted{
  weights: make([]float64, len(w)),
```

```
 heap:    make([]float64, len(w)),
 }
 if src != nil {
  s.rnd = rand.New(src)
 }
 s.ReweightAll(w)
 return s
}

// Len returns the number of items held by the Weighted, including items
// already taken.
func (s Weighted) Len() int { return len(s.weights) }

// Take returns an index from the Weighted with probability proportional
// to the weight of the item. The weight of the item is then set to zero.
// Take returns false if there are no items remaining.
func (s Weighted) Take() (idx int, ok bool) {
 const small = 1e-12
 if floats.EqualWithinAbsOrRel(s.heap[0], 0, small, small) {
  return -1, false
 }

 var r float64
 if s.rnd == nil {
  r = s.heap[0] * rand.Float64()
 } else {
  r = s.heap[0] * s.rnd.Float64()
 }
 i
 := 1
 last := -1
 left := len(s.weights)
 for {
  if r -= s.weights[i-1]; r <= 0 {
   break // Fall within item i-1.
  }
  i <<= 1 // Move to left child.
  if d := s.heap[i-1]; r > d {
   r -= d
   // If enough r to pass left child
   // move to right child state will
   // be caught at break above.
   i++
  }
  if i == last || left < 0 {
   // No progression.
   return -1, false
  }
```

```
 last = i
 left--
}

w, idx := s.weights[i-1], i-1

s.weights[i-1] = 0
for i > 0 {
 s.heap[i-1] -= w
 // The following condition is necessary to
 // handle floating point error. If we see
 // a heap value below zero, we know we need
 // to rebuild it.
 if s.heap[i-1] < 0 {
  s.reset()
  return idx, true
 }
 i >>= 1
}

return idx, true
}

// Reweight sets the weight of item idx to w.
func (s Weighted) Reweight(idx int, w float64) {
 w, s.weights[idx] = s.weights[idx]-w, w
 idx++
 for idx > 0 {
  s.heap[idx-1] -= w
  idx >>= 1
 }
}

// ReweightAll sets the weight of all items
 in the Weighted. ReweightAll
// panics if len(w) != s.Len.
func (s Weighted) ReweightAll(w []float64) {
 if len(w) != s.Len() {
  panic("floats: length of the slices do not match")
 }
 copy(s.weights, w)
 s.reset()
}

func (s Weighted) reset() {
 copy(s.heap, s.weights)
 for i := len(s.heap) - 1; i > 0; i-- {
  // Sometimes 1-based counting makes sense.
```

```
  s.heap[((i+1)>>1)-1] += s.heap[i]
 }
}
graph{"\Z\Z\"}
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package mat

import "testing"

func leaksPanic(fn func()) (panicked bool) {
 defer func() {
  r := recover()
  panicked = r != nil
 }()
 Maybe(fn)
 return
}

func TestMaybe(t *testing.T) {
 for i, test := range []struct {
  fn     func()
  panics bool
  errors bool
 }{
  {
   fn:     func() {},
   panics: false,
   errors: false,
  },
  {
   fn:     func() { panic("panic") },
   panics: true,
   errors: false,
  },
  {
   fn:     func() { panic(Error{"panic"}) },
   panics: false,
   errors: true,
  },
 } {
  panicked := leaksPanic(test.fn)
  if panicked != test.panics {
   t.Errorf("unexpected panic state for test %d: got: panicked=%t want: panicked=%t",
    i, panicked, test.panics)
  }
```

```
  if test.errors {
   err := Maybe(test.fn)
   stack, ok := err.(ErrorStack)
   if !ok {
    t.Errorf("unexpected error type: got:%T want:%T",
 stack, ErrorStack{})
   }
   if stack.StackTrace == "" {
    t.Error("expected non-empty stack trace")
   }
  }
 }
}
graph{Digrap}
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package distuv

import (
 "math"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/mathext"
)

// Beta implements the Beta distribution, a two-parameter continuous distribution
// with support between 0 and 1.
//
// The beta distribution has density function
//  x^(-1) * (1-x)^(-1) * (+) / (()*())
//
// For more information, see https://en.wikipedia.org/wiki/Beta_distribution
type Beta struct {
 // Alpha is the left shape parameter of the distribution. Alpha must be greater
 // than 0.
 Alpha float64
 // Beta is the right shape parameter of the distribution. Beta must be greater
 // than 0.
 Beta float64

 Src rand.Source
}

// CDF computes the value of the cumulative distribution function at x.
func (b Beta) CDF(x float64) float64 {
```

```
 if x <= 0 {
  return 0
 }
 if x >= 1 {
  return 1
 }
 return mathext.RegIncBeta(b.Alpha, b.Beta,
 x)
}

// Entropy returns the differential entropy of the distribution.
func (b Beta) Entropy() float64 {
 if b.Alpha <= 0 || b.Beta <= 0 {
  panic("beta: negative parameters")
 }
 return mathext.Lbeta(b.Alpha, b.Beta) - (b.Alpha-1)*mathext.Digamma(b.Alpha) -
  (b.Beta-1)*mathext.Digamma(b.Beta) + (b.Alpha+b.Beta-2)*mathext.Digamma(b.Alpha+b.Beta)
}

// ExKurtosis returns the excess kurtosis of the distribution.
func (b Beta) ExKurtosis() float64 {
 num := 6 * ((b.Alpha-b.Beta)*(b.Alpha-b.Beta)*(b.Alpha+b.Beta+1) - b.Alpha*b.Beta*(b.Alpha+b.Beta+2))
 den := b.Alpha * b.Beta * (b.Alpha + b.Beta + 2) * (b.Alpha + b.Beta + 3)
 return num / den
}

// LogProb computes the natural logarithm of the value of the probability
// density function at x.
func (b Beta) LogProb(x float64) float64 {
 if x < 0 || x > 1 {
  return math.Inf(-1)
 }

 if b.Alpha <= 0 || b.Beta <= 0 {
  panic("beta: negative parameters")
 }

 lab, _ := math.Lgamma(b.Alpha + b.Beta)
 la, _ := math.Lgamma(b.Alpha)
 lb, _ :=
 math.Lgamma(b.Beta)
 return lab - la - lb + (b.Alpha-1)*math.Log(x) + (b.Beta-1)*math.Log(1-x)
}

// Mean returns the mean of the probability distribution.
func (b Beta) Mean() float64 {
 return b.Alpha / (b.Alpha + b.Beta)
}
```

```
// Mode returns the mode of the distribution.
//
// Mode returns NaN if either parameter is less than or equal to 1 as a special case.
func (b Beta) Mode() float64 {
 if b.Alpha <= 1 || b.Beta <= 1 {
  return math.NaN()
 }
 return (b.Alpha - 1) / (b.Alpha + b.Beta - 2)
}

// NumParameters returns the number of parameters in the distribution.
func (b Beta) NumParameters() int {
 return 2
}

// Prob computes the value of the probability density function at x.
func (b Beta) Prob(x float64) float64 {
 return math.Exp(b.LogProb(x))
}

// Quantile returns the inverse of the cumulative distribution function.
func (b Beta) Quantile(p float64) float64 {
 if p < 0 || p > 1 {
  panic(badPercentile)
 }
 return mathext.InvRegIncBeta(b.Alpha, b.Beta, p)
}

// Rand returns a random
 sample drawn from the distribution.
func (b Beta) Rand() float64 {
 ga := Gamma{Alpha: b.Alpha, Beta: 1, Src: b.Src}.Rand()
 gb := Gamma{Alpha: b.Beta, Beta: 1, Src: b.Src}.Rand()
 return ga / (ga + gb)
}

// StdDev returns the standard deviation of the probability distribution.
func (b Beta) StdDev() float64 {
 return math.Sqrt(b.Variance())
}

// Survival returns the survival function (complementary CDF) at x.
func (b Beta) Survival(x float64) float64 {
 switch {
 case x <= 0:
  return 1
 case x >= 1:
```

```
  return 0
 }
 return mathext.RegIncBeta(b.Beta, b.Alpha, 1-x)
}

// Variance returns the variance of the probability distribution.
func (b Beta) Variance() float64 {
 return b.Alpha * b.Beta / ((b.Alpha + b.Beta) * (b.Alpha + b.Beta) * (b.Alpha + b.Beta + 1))
}
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package layout

import (
 "bytes"
 "encoding/base64"
 "image"
 "image/png"
 "io/ioutil"
 "os"
 "path/filepath"
 "sort"
 "strings"
 "testing"

 "gonum.org/v1/gonum/graph"
 "gonum.org/v1/gonum/graph/internal/ordered"
 "gonum.org/v1/gonum/graph/iterator"
 "gonum.org/v1/plot/cmpimg"
)

// orderedGraph wraps a graph.Graph ensuring consistent ordering of nodes
// in graph queries. Removal of this causes to tests to fail due to changes
// in node iteration order, but the produced graph layouts are still good.
type orderedGraph struct {
 graph.Graph
}

func (g orderedGraph) Nodes() graph.Nodes {
 n := graph.NodesOf(g.Graph.Nodes())
 sort.Sort(ordered.ByID(n))
 return iterator.NewOrderedNodes(n)
}

func (g orderedGraph) From(id int64) graph.Nodes {
 n := graph.NodesOf(g.Graph.From(id))
```

```
 sort.Sort(ordered.ByID(n))
 return iterator.NewOrderedNodes(n)
}

func
 goldenPath(path string) string {
 ext := filepath.Ext(path)
 noext := strings.TrimSuffix(path, ext)
 return noext + "_golden" + ext
}

func checkRenderedLayout(t *testing.T, path string) (ok bool) {
 if *cmpimg.GenerateTestData {
  // Recreate Golden image and exit.
  golden := goldenPath(path)
  _ = os.Remove(golden)
  if err := os.Rename(path, golden); err != nil {
   t.Fatal(err)
  }
  return true
 }

 // Read the images we've just generated and check them against the
 // Golden Images.
 got, err := ioutil.ReadFile(path)
 if err != nil {
  t.Errorf("failed to read %s: %v", path, err)
  return true
 }
 golden := goldenPath(path)
 want, err := ioutil.ReadFile(golden)
 if err != nil {
  t.Errorf("failed to read golden file %s: %v", golden, err)
  return true
 }
 typ := filepath.Ext(path)[1:] // remove the dot in ".png"
 ok, err = cmpimg.Equal(typ, got, want)
 if err != nil {
  t.Errorf("failed to compare image for %s: %v", path, err)
  return true
 }
 if !ok {
  t.Errorf("image
 mismatch for %s\n", path)
  v1, _, err := image.Decode(bytes.NewReader(got))
  if err != nil {
   t.Errorf("failed to decode %s: %v", path, err)
   return false
```

```
  }
  v2, _, err := image.Decode(bytes.NewReader(want))
  if err != nil {
   t.Errorf("failed to decode %s: %v", golden, err)
   return false
  }

  dst := image.NewRGBA64(v1.Bounds().Union(v2.Bounds()))
  rect := cmpimg.Diff(dst, v1, v2)
  t.Logf("image bounds union:%+v diff bounds intersection:%+v", dst.Bounds(), rect)

  var buf bytes.Buffer
  err = png.Encode(&buf, dst)
  if err != nil {
   t.Errorf("failed to encode difference png: %v", err)
   return false
  }
  t.Log("IMAGE:" + base64.StdEncoding.EncodeToString(buf.Bytes()))
 }
 return ok
}
# Gonum graph
[![GoDoc](https://godoc.org/gonum.org/v1/gonum/graph?status.svg)](https://godoc.org/gonum.org/v1/gonum/graph
)

This is a generalized graph package for the Go language.
graph{Dig}
graph{{{{digrar}digrat}}}
graph{STRICTR}
graph{No0{No0}No0{No0{No0}No0}}
graph{{{{{{subGrc}{subGrc}{subGrn}}}}}}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "fmt"
 "testing"
)

func TestLuminousIntensityFormat(t *testing.T) {
 for _, test := range []struct {
  value  LuminousIntensity
  format string
```

```
  want   string
 }{
  {1.23456789, "%v", "1.23456789 cd"},
  {1.23456789, "%.1v", "1 cd"},
  {1.23456789, "%20.1v", "                1 cd"},
  {1.23456789, "%20v", "       1.23456789 cd"},
  {1.23456789, "%1v", "1.23456789 cd"},
  {1.23456789, "%#v", "unit.LuminousIntensity(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.LuminousIntensity=1.23456789 cd)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
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package kdtree

var (
 _ Interface  = nbPoints{}
 _ Comparable = nbPoint{}
)

// nbRandoms is the maximum number of random values to sample for calculation of median of
// random elements.
var nbRandoms = 100

// nbPoint represents a point in a k-d space that satisfies the Comparable interface.
type nbPoint Point

func (p nbPoint) Compare(c Comparable, d Dim) float64 { q := c.(nbPoint); return p[d] - q[d] }
func (p nbPoint) Dims() int                           { return len(p) }
func (p nbPoint) Distance(c Comparable) float64 {
 q := c.(nbPoint)
 var sum float64
 for dim, c := range p {
  d := c - q[dim]
  sum += d * d
 }
 return sum
}

// nbPoints is a collection of point values that satisfies the Interface.
type nbPoints []nbPoint
```

```
func (p nbPoints) Index(i int) Comparable         { return p[i] }
func (p nbPoints) Len() int
                    { return len(p) }
func (p nbPoints) Pivot(d Dim) int                { return nbPlane{nbPoints: p, Dim: d}.Pivot() }
func (p nbPoints) Slice(start, end int) Interface { return p[start:end] }

// nbPlane is a wrapping type that allows a Points type be pivoted on a dimension.
type nbPlane struct {
 Dim
 nbPoints
}

func (p nbPlane) Less(i, j int) bool              { return p.nbPoints[i][p.Dim] < p.nbPoints[j][p.Dim] }
func (p nbPlane) Pivot() int                      { return Partition(p, MedianOfRandoms(p, nbRandoms)) }
func (p nbPlane) Slice(start, end int) SortSlicer { p.nbPoints = p.nbPoints[start:end]; return p }
func (p nbPlane) Swap(i, j int) {
 p.nbPoints[i], p.nbPoints[j] = p.nbPoints[j], p.nbPoints[i]
}
graph{{stri{stri}stri{stri}stri}}
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// license that can be found in the LICENSE file.

package mathext

import (
 "testing"

 "gonum.org/v1/gonum/floats"
)

func TestIncBeta(t *testing.T) {
 tol := 1e-14
 tol2 := 1e-10
 // Test against values from scipy
 for i, test := range []struct {
  a, b, x, ans float64
 }{
  {1, 1, 0.8, 0.8},
  {1, 5, 0.8, 0.99968000000000001},
  {10, 10, 0.8, 0.99842087945083291},
  {10, 10, 0.1, 3.929882327128003e-06},
  {10, 2, 0.4, 0.00073400320000000028},
  {0.1, 0.2, 0.6, 0.69285678232066683},
  {1, 10, 0.7489, 0.99999900352334858},
 } {
  y := RegIncBeta(test.a, test.b, test.x)
```

```
 if !floats.EqualWithinAbsOrRel(y, test.ans, tol, tol) {
  t.Errorf("Incomplete beta mismatch. Case %v: Got %v, want %v", i, y, test.ans)
 }

 yc := 1 - RegIncBeta(test.b, test.a, 1-test.x)
 if !floats.EqualWithinAbsOrRel(y, yc, tol, tol) {
  t.Errorf("Incomplete beta complementary mismatch. Case %v: Got
%v, want %v", i, y, yc)
 }

 x := InvRegIncBeta(test.a, test.b, y)
 if !floats.EqualWithinAbsOrRel(x, test.x, tol2, tol2) {
  t.Errorf("Inverse incomplete beta mismatch. Case %v: Got %v, want %v", i, x, test.x)
 }
}

// Confirm that Invincbeta and Incbeta agree. Sweep over a variety of
// a, b, and y values.
tol = 1e-6
steps := 201
ints := make([]float64, steps)
floats.Span(ints, 0, 1)

sz := 51
min := 1e-2
max := 1e2
as := make([]float64, sz)
floats.LogSpan(as, min, max)
bs := make([]float64, sz)
floats.LogSpan(bs, min, max)

for _, a := range as {
 for _, b := range bs {
  for _, yr := range ints {
   x := InvRegIncBeta(a, b, yr)
   if x > 1-1e-6 {
    // Numerical error too large
    continue
   }
   y := RegIncBeta(a, b, x)
   if !floats.EqualWithinAbsOrRel(yr, y, tol, tol) {
    t.Errorf("Mismatch between inv inc beta and inc beta. a = %v, b = %v, x = %v, got %v, want %v.", a, b, x, y, yr)
    break
   }
  }
 }
}
}
```

```
graph{"\E\Z"}
program testdlasq3
implicit none

! Dlasq3 tests
integer :: i0, n0, pp,ttype, nFail,iter,nDiv,n
real(kind=8), dimension(84) :: z
real(kind=8) :: dmin,desig,qmax,dmin1,dmin2,dn,dn1,dn2,g,tau,sigma
logical :: ieee

n = 84

ieee = .True.

z(1:84) = (/1.9143652461808209D+00, &
1.5643842977038900D+00, &
2.4933891621438989D-01, &
3.4998094847693051D-01, &
1.3159965131315450D+00, &
1.3638621124906269D+00, &
9.8984666119707590D-02, &
2.0147331685530781D-01, &
6.0239739795872871D-01, &
6.4655447927417942D-01, &
2.2100334106387809D-03, &
5.4827584804256833D-02, &
9.8618572336789667D-02, &
2.4281908107454921D-02, &
4.7563214844548191D-01, &
7.6546697639973529D-02, &
2.5887481436771148D-01, &
6.1277840695087704D-01, &
1.0786113766900041D-01, &
1.2172855586231640D-01, &
6.4428964922552456D-01, &
2.2938358048981550D-01, &
6.2032304866397048D-01, &
5.2276720640470942D-01, &
3.6956606786075852D-01, &
7.6452331847458654D-01, &
5.3788380542522651D-01, &
2.2536579805014259D-01, &
3.5625331812646233D-01, &
8.8204867223354833D-01,
 &
2.2221324964361449D-02, &
1.2088451318140349D-02, &
1.2750943030216850D+00, &
```

6.5487468521633574D-01, &
1.6473243548212180D-01, &
6.4244094276971109D-01, &
1.0075305765438660D+00, &
3.2695517365467008D-01, &
3.4538816017831181D-01, &
8.4530783837131718D-01, &
2.6793917191534039D-01, &
4.1167148387782809D-01, &
7.3286777366837230D-01, &
2.0165584821582411D-01, &
8.3608281383074101D-01, &
9.7375794521953263D-01, &
4.8136607095928219D-01, &
5.9519264227958080D-01, &
6.4953705136764595D-01, &
6.7618762481481709D-01, &
2.3254758802226480D-01, &
4.5471549751211121D-01, &
1.9936248028938069D-01, &
3.3218193673422552D-01, &
3.7823189169112570D-01, &
9.9728131577419957D-02, &
9.8304494035037460D-01, &
7.5610809968448423D-01, &
4.4297338640403672D-01, &
6.0516873235701607D-01, &
1.1732795506024030D+00, &
7.1957244803166864D-01, &
5.0355240691445868D-01, &
8.9668048897477137D-01, &
3.0589803950585209D-01, &
6.5888323539286620D-01, &
3.0146344334154529D-01, &
1.5056721102744461D-01,
&
1.2894222375675779D+00, &
6.1246453109936005D-01, &
7.5833643057994404D-01, &
9.7842114980976291D-01, &
4.9778147794615712D-01, &
9.9938135774918690D-01, &
2.8414688478625982D-01, &
2.5673655077691432D-01, &
9.2575397942057647D-01, &
5.5092683856146663D-01, &
5.2313556054509897D-05, &
6.5897402564536967D-01, &

```
2.1178692213810329D-05, &
7.3492248268320243D-05, &
0.0000000000000000D+00, &
0.0000000000000000D+00/)
i0 = 1
n0 = 21
pp = 0
dmin = -0.0000000000000000D+00
sigma = 0.0000000000000000D+00
desig = 0.0000000000000000D+00
qmax = 2.1637041623952107D+00
nFail = 0
iter = 2
nDiv = 40
ttype = 0
dmin1 = 0.0000000000000000D+00
dmin2 = 0.0000000000000000D+00
dn = 0.0000000000000000D+00
dn1 = 0.0000000000000000D+00
dn2 = 0.0000000000000000D+00
g = 0.0000000000000000D+00
tau = 0.0000000000000000D+00

print *, "Starting Dlasq3"
open(unit = 4, file = "gen4tests.txt")
open(unit = 5, file = "gen5tests.txt")
call Dlasq3(i0, n0, z, pp, dmin, sigma, desig, qmax, nFail, iter, nDiv, ieee,
 ttype, dmin1, dmin2, dn, dn1, dn2, g, tau)
close(4)
close(5)

print *, "Done calling dlasq3"
print *, Z(1:n)

print *, I0, N0, PP
print *, DMIN, DESIG, SIGMA, QMAX
print *, NFAIL, ITER, NDIV, TTYPE
print *, DMIN1, DMIN2, DN, DN1, DN2, G, TAU

end
graph{ed""ed}
graph{{{{Sh{{{{Sh{{{{Sb}}Sh}So}}}}So{{{Sb}}}So}}}}So}
graph{{gr{{gr}gr{gr}}gr}}
graph{diG{diG{{diG}{diG{diG}diG}}{diG{diG}diG}}}
// SPDX-License-Identifier: Unlicense OR MIT

package material
```

```
import (
 "image"
 "image/color"

 "gioui.org/f32"
 "gioui.org/io/pointer"
 "gioui.org/layout"
 "gioui.org/op"
 "gioui.org/op/clip"
 "gioui.org/op/paint"
 "gioui.org/text"
 "gioui.org/unit"
 "gioui.org/widget"
)

type Button struct {
 Text string
 // Color is the text color.
 Color        color.RGBA
 Font         text.Font
 Background   color.RGBA
 CornerRadius unit.Value
 shaper       *text.Shaper
}

type IconButton struct {
 Background color.RGBA
 Color      color.RGBA
 Icon       *Icon
 Size       unit.Value
 Padding    unit.Value
}

func (t *Theme) Button(txt string) Button {
 return Button{
  Text:       txt,
  Color:      rgb(0xffffff),
  Background: t.Color.Primary,
  Font: text.Font{
   Size: t.TextSize.Scale(14.0 / 16.0),
  },
  shaper: t.Shaper,
 }
}

func (t *Theme) IconButton(icon *Icon) IconButton {
 return IconButton{
  Background: t.Color.Primary,
```

```
  Color:      t.Color.InvText,
  Icon:       icon,
  Size:
    unit.Dp(56),
  Padding:    unit.Dp(16),
 }
}

func (b Button) Layout(gtx *layout.Context, button *widget.Button) {
 col := b.Color
 bgcol := b.Background
 hmin := gtx.Constraints.Width.Min
 vmin := gtx.Constraints.Height.Min
 layout.Stack{Alignment: layout.Center}.Layout(gtx,
  layout.Expanded(func() {
   rr := float32(gtx.Px(unit.Dp(4)))
   clip.Rect{
    Rect: f32.Rectangle{Max: f32.Point{
     X: float32(gtx.Constraints.Width.Min),
     Y: float32(gtx.Constraints.Height.Min),
    }},
    NE: rr, NW: rr, SE: rr, SW: rr,
   }.Op(gtx.Ops).Add(gtx.Ops)
   fill(gtx, bgcol)
   for _, c := range button.History() {
    drawInk(gtx, c)
   }
  }),
  layout.Stacked(func() {
   gtx.Constraints.Width.Min = hmin
   gtx.Constraints.Height.Min = vmin
   layout.Align(layout.Center).Layout(gtx, func() {
    layout.Inset{Top: unit.Dp(10), Bottom: unit.Dp(10), Left: unit.Dp(12), Right: unit.Dp(12)}.Layout(gtx, func() {
     paint.ColorOp{Color: col}.Add(gtx.Ops)
     widget.Label{}.Layout(gtx, b.shaper,
 b.Font, b.Text)
    })
   })
   pointer.Rect(image.Rectangle{Max: gtx.Dimensions.Size}).Add(gtx.Ops)
   button.Layout(gtx)
  }),
 )
}

func (b IconButton) Layout(gtx *layout.Context, button *widget.Button) {
 layout.Stack{}.Layout(gtx,
  layout.Expanded(func() {
   size := float32(gtx.Constraints.Width.Min)
```

```
  rr := float32(size) * .5
  clip.Rect{
   Rect: f32.Rectangle{Max: f32.Point{X: size, Y: size}},
   NE:   rr, NW: rr, SE: rr, SW: rr,
  }.Op(gtx.Ops).Add(gtx.Ops)
  fill(gtx, b.Background)
  for _, c := range button.History() {
   drawInk(gtx, c)
  }
 }),
 layout.Stacked(func() {
  layout.UniformInset(b.Padding).Layout(gtx, func() {
   size := gtx.Px(b.Size) - 2*gtx.Px(b.Padding)
   if b.Icon != nil {
    b.Icon.Color = b.Color
    b.Icon.Layout(gtx, unit.Px(float32(size)))
   }
   gtx.Dimensions = layout.Dimensions{
    Size: image.Point{X: size, Y: size},
   }
  })
  pointer.Ellipse(image.Rectangle{Max: gtx.Dimensions.Size}).Add(gtx.Ops)
  button.Layout(gtx)
 }),
)
}

func
 toPointF(p image.Point) f32.Point {
 return f32.Point{X: float32(p.X), Y: float32(p.Y)}
}

func toRectF(r image.Rectangle) f32.Rectangle {
 return f32.Rectangle{
  Min: toPointF(r.Min),
  Max: toPointF(r.Max),
 }
}

func drawInk(gtx *layout.Context, c widget.Click) {
 d := gtx.Now().Sub(c.Time)
 t := float32(d.Seconds())
 const duration = 0.5
 if t > duration {
  return
 }
 t = t / duration
 var stack op.StackOp
```

```
 stack.Push(gtx.Ops)
 size := float32(gtx.Px(unit.Dp(700))) * t
 rr := size * .5
 col := byte(0xaa * (1 - t*t))
 ink := paint.ColorOp{Color: color.RGBA{A: col, R: col, G: col, B: col}}
 ink.Add(gtx.Ops)
 op.TransformOp{}.Offset(c.Position).Offset(f32.Point{
  X: -rr,
  Y: -rr,
 }).Add(gtx.Ops)
 clip.Rect{
  Rect: f32.Rectangle{Max: f32.Point{
   X: float32(size),
   Y: float32(size),
  }},
  NE: rr, NW: rr, SE: rr, SW: rr,
 }.Op(gtx.Ops).Add(gtx.Ops)
 paint.PaintOp{Rect: f32.Rectangle{Max: f32.Point{X: float32(size), Y: float32(size)}}}.Add(gtx.Ops)
 stack.Pop()
 op.InvalidateOp{}.Add(gtx.Ops)
}
graph{<=>{<=><=>{<=>}}}
graph{{Gr}{Gr{{Gr}{Gr{{Gr{{Gr}{Gr}}Gr}{Gr}}{{}{{{}{}}}}}}}}
graph{<<=>=>}
graph{SUBH}
graph{{{digr}}digr{digr}{digr}{digr}}
digraph{e[l=<<E "0">
 <R>
     <D "9023" ""17464450787444112>a<D>
 606162636465666768693552713678800500929355621337890625 </"23430">a<D>'     <D>cfdswr<D>
 <R>
   <E>>l=""]n->g[l=""]g->l[l=""]}
graph{{EDG{EDG}EDG{EDG}{EDG{EDG}}}}
graph{{{DiGr2}DiGr1}DiGr1}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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// license that can be found in the LICENSE file.

package unit

import (
 "errors"
 "fmt"
 "math"
 "unicode/utf8"
)
```

```
// Mole represents an amount in moles.
type Mole float64

const Mol Mole = 1

// Unit converts the Mole to a *Unit
func (n Mole) Unit() *Unit {
 return New(float64(n), Dimensions{
  MoleDim: 1,
 })
}

// Mole allows Mole to implement a Moleer interface
func (n Mole) Mole() Mole {
 return n
}

// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (n *Mole) From(u Uniter) error {
 if !DimensionsMatch(u, Mol) {
  *n = Mole(math.NaN())
  return errors.New("Dimension mismatch")
 }
 *n = Mole(u.Unit().Value())
 return nil
}

func (n Mole) Format(fs fmt.State, c rune) {
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)",
 n, float64(n))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " mol"
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(n))
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(n))
  case wOk:
```

```
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(n))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(n))
  }
  fmt.Fprint(fs, unit)
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g mol)", c, n, float64(n))
 }
}
//** github.com/glycerine/fast-elliptic-curve-p256 **//

{{Types "Apache-2.0"}}

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#  Developers and authors:                                                    #
#  Shay Gueron (1, 2), and Vlad Krasnov (1, 3)                                #
#  (1) Intel Corporation, Israel Development Center                           #
#  (2) University of Haifa                                                    #
#  (3) CloudFlare, Inc.                                                       #
#  Reference:                                                                 #
#  S.Gueron and V.Krasnov, "Fast Prime Field Elliptic Curve Cryptography with#
#                          256 Bit Primes"                                    #
#   https://eprint.iacr.org/2013/816.pdf
                                #
##############################################################################

# Further optimization by <appro@openssl.org>:
#
#                     this/original   with/without -DECP_NISTZ256_ASM(*)
# Opteron             +12-49%         +110-150%
# Bulldozer           +14-45%         +175-210%
# P4                  +18-46%         n/a :-(
# Westmere            +12-34%         +80-87%
# Sandy Bridge        +9-35%          +110-120%
# Ivy Bridge          +9-35%          +110-125%
# Haswell             +8-37%          +140-160%
# Broadwell           +18-58%         +145-210%
# Atom                +15-50%         +130-180%
# VIA Nano            +43-160%        +300-480%
```

```
#
# (*)   "without -DECP_NISTZ256_ASM" refers to build with
#       "enable-ec_nistp_64_gcc_128";
#
# Ranges denote minimum and maximum improvement coefficients depending
# on benchmark. Lower coefficients are for ECDSA sign, relatively fastest
#
 server-side operation. Keep in mind that +100% means 2x improvement.
*/
graph{{{digrr}{digrr}digh{{{digrr}{digrr}digr}}}}
graph{"\\\\
\\\\{sssssssss}\\\\\\\\\\\\\\\\\\\\\\\\"}
graph{SUBGRAV{{SUBGRAU}}}
graph{EDA{EDA}EDA{EDA{EDA}EDA}{EDA{EDA}EDA}}
graph{grap238418577910191015625}
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package gonum

import "gonum.org/v1/gonum/blas"

// Dgebd2 reduces an mn matrix A to upper or lower bidiagonal form by an orthogonal
// transformation.
//  Q * A * P = B
// if m >= n, B is upper diagonal, otherwise B is lower bidiagonal.
// d is the diagonal, len = min(m,n)
// e is the off-diagonal len = min(m,n)-1
//
// Dgebd2 is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dgebd2(m, n int, a []float64, lda int, d, e, tauQ, tauP, work []float64) {
 switch {
 case m < 0:
  panic(mLT0)
 case n < 0:
  panic(nLT0)
 case lda < max(1, n):
  panic(badLdA)
 }

 // Quick return if possible.
 minmn := min(m, n)
 if minmn == 0 {
  return
 }

 switch {
```

```
case len(d) < minmn:
 panic(shortD)
case len(e) < minmn-1:
 panic(shortE)
case len(tauQ) < minmn:
 panic(shortTauQ)
case len(tauP) < minmn:
 panic(shortTauP)
case
len(work) < max(m, n):
 panic(shortWork)
}

if m >= n {
 for i := 0; i < n; i++ {
  a[i*lda+i], tauQ[i] = impl.Dlarfg(m-i, a[i*lda+i], a[min(i+1, m-1)*lda+i:], lda)
  d[i] = a[i*lda+i]
  a[i*lda+i] = 1
  // Apply H_i to A[i:m, i+1:n] from the left.
  if i < n-1 {
   impl.Dlarf(blas.Left, m-i, n-i-1, a[i*lda+i:], lda, tauQ[i], a[i*lda+i+1:], lda, work)
  }
  a[i*lda+i] = d[i]
  if i < n-1 {
   a[i*lda+i+1], tauP[i] = impl.Dlarfg(n-i-1, a[i*lda+i+1], a[i*lda+min(i+2, n-1):], 1)
   e[i] = a[i*lda+i+1]
   a[i*lda+i+1] = 1
   impl.Dlarf(blas.Right, m-i-1, n-i-1, a[i*lda+i+1:], 1, tauP[i], a[(i+1)*lda+i+1:], lda, work)
   a[i*lda+i+1] = e[i]
  } else {
   tauP[i] = 0
  }
 }
 return
}
for i := 0; i < m; i++ {
 a[i*lda+i], tauP[i] = impl.Dlarfg(n-i, a[i*lda+i], a[i*lda+min(i+1, n-1):], 1)
 d[i] = a[i*lda+i]
 a[i*lda+i] = 1
 if i < m-1 {
  impl.Dlarf(blas.Right, m-i-1, n-i, a[i*lda+i:], 1, tauP[i], a[(i+1)*lda+i:], lda, work)
 }
 a[i*lda+i]
= d[i]
 if i < m-1 {
  a[(i+1)*lda+i], tauQ[i] = impl.Dlarfg(m-i-1, a[(i+1)*lda+i], a[min(i+2, m-1)*lda+i:], lda)
  e[i] = a[(i+1)*lda+i]
  a[(i+1)*lda+i] = 1
```

```
   impl.Dlarf(blas.Left, m-i-1, n-i-1, a[(i+1)*lda+i:], lda, tauQ[i], a[(i+1)*lda+i+1:], lda, work)
   a[(i+1)*lda+i] = e[i]
  } else {
   tauQ[i] = 0
  }
 }
}
graph{{{di{di}{di{di{di}}di}}di}di{di{di}{di{di{{di{di}{di{di{di}}di}}di}}di}}}
graph{"\I\I\3\I\3\I\#"}
graph{{{Sub{Subg1{Subg1}Subg1}Sub{Subg1}Subg1}Subg1}{Subg1}}
// SPDX-License-Identifier: Unlicense OR MIT

package headless

import (
 "errors"
 "syscall/js"

 "gioui.org/app/internal/gl"
)

type jsContext struct {
 ctx js.Value
 f   *gl.Functions
}

func newContext() (*jsContext, error) {
 version := 2
 doc := js.Global().Get("document")
 cnv := doc.Call("createElement", "canvas")
 ctx := cnv.Call("getContext", "webgl2")
 if ctx.IsNull() {
  version = 1
  ctx = cnv.Call("getContext", "webgl")
 }
 if ctx.IsNull() {
  return nil, errors.New("headless: webgl is not supported")
 }
 f := &gl.Functions{Ctx: ctx}
 if err := f.Init(version); err != nil {
  return nil, err
 }
 c := &jsContext{
  ctx: ctx,
  f:   f,
 }
 return c, nil
}
```

```
func (c *jsContext) Functions() *gl.Functions {
 return c.f
}

func (c *jsContext) Release() {
}

func (c *jsContext) ReleaseCurrent() {
}

func (c *jsContext) MakeCurrent() error {
 return nil
}
#!/usr/bin/env bash
# MIT licenses will each have a unique MD5 sum since they contain a unique copyright.
# This script will read the license file into memory, strip out the copyright, and then
# generate an MD5 that is not unique and can be matched against a known MIT MD5 sum.
set -e

calculate_md5_sum() {
 local FILE="$1"

 # Read the contents of the file into a variable
 local raw_license_text=$(<"$FILE")

 # Convert to lowercase
 local lowercase_license_text="${raw_license_text,,}"

 # Remove anything before the beginning of the license
 local stripped_license_text=$(awk '/permission is hereby granted,/{p=1} p' <<< "$lowercase_license_text")

 # Replace line breaks (Windows or Linux) with a single space
 local replaced_linebreaks=$(tr '\r\n' ' ' <<< "$stripped_license_text")

 # Replace multiple spaces with a single space
 local normalized_license_text=$(tr -s ' ' <<< "$replaced_linebreaks")

 # Strip away any non-printable, non-whitespace characters
 local clean_unprintable_license_text=$(tr
 -cd '[:print:][:space:]' <<< "$normalized_license_text")

 # Remove punctuation and special characters
 local clean_license_text=$(echo "$clean_unprintable_license_text" | sed 's/[^a-zA-Z ]//g')

 # Calculate the MD5 sum of the cleaned license text
 local MD5SUM=$(echo -n "$clean_license_text" | md5sum | awk '{print $1}')
```

```
 # Output the MD5 sum
 echo "$MD5SUM"
}

# Check if the FILE argument is provided
if [ -z "$1" ]; then
 echo "Please provide a FILE as an argument."
 exit 1
fi

# Invoke the function with the provided FILE argument
calculate_md5_sum "$1"
graph{{nodU}}
graph{DiGra}
graph{Edged}
graph{{D55}}
graph{{{{grN}}grO}}
graph{{DIGRAG{{DIGRAG}{DIGRAG}DIGRAG}{DIGRAG}}}
graph{{STRI}}
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// license that can be found in the LICENSE file.

package iterator

import "gonum.org/v1/gonum/graph"

// OrderedLines implements the graph.Lines and graph.LineSlicer interfaces.
// The iteration order of OrderedLines is the order of lines passed to
// NewLineIterator.
type OrderedLines struct {
 idx   int
 lines []graph.Line
}

// NewOrderedLines returns an OrderedLines initialized with the provided lines.
func NewOrderedLines(lines []graph.Line) *OrderedLines {
 return &OrderedLines{idx: -1, lines: lines}
}

// Len returns the remaining number of lines to be iterated over.
func (e *OrderedLines) Len() int {
 if e.idx >= len(e.lines) {
  return 0
 }
 if e.idx <= 0 {
  return len(e.lines)
 }
```

```
 return len(e.lines[e.idx:])
}

// Next returns whether the next call of Line will return a valid line.
func (e *OrderedLines) Next() bool {
 if uint(e.idx)+1 < uint(len(e.lines)) {
  e.idx++
  return
 true
 }
 e.idx = len(e.lines)
 return false
}

// Line returns the current line of the iterator. Next must have been
// called prior to a call to Line.
func (e *OrderedLines) Line() graph.Line {
 if e.idx >= len(e.lines) || e.idx < 0 {
  return nil
 }
 return e.lines[e.idx]
}

// LineSlice returns all the remaining lines in the iterator and advances
// the iterator.
func (e *OrderedLines) LineSlice() []graph.Line {
 if e.idx >= len(e.lines) {
  return nil
 }
 idx := e.idx
 if idx == -1 {
  idx = 0
 }
 e.idx = len(e.lines)
 return e.lines[idx:]
}

// Reset returns the iterator to its initial state.
func (e *OrderedLines) Reset() {
 e.idx = -1
}

// OrderedWeightedLines implements the graph.Lines and graph.LineSlicer interfaces.
// The iteration order of OrderedWeightedLines is the order of lines passed to
// NewLineIterator.
type OrderedWeightedLines struct {
 idx   int
 lines []graph.WeightedLine
```

```
}

// NewWeightedLineIterator returns an OrderedWeightedLines initialized with
 the provided lines.
func NewOrderedWeightedLines(lines []graph.WeightedLine) *OrderedWeightedLines {
 return &OrderedWeightedLines{idx: -1, lines: lines}
}

// Len returns the remaining number of lines to be iterated over.
func (e *OrderedWeightedLines) Len() int {
 if e.idx >= len(e.lines) {
  return 0
 }
 if e.idx <= 0 {
  return len(e.lines)
 }
 return len(e.lines[e.idx:])
}

// Next returns whether the next call of WeightedLine will return a valid line.
func (e *OrderedWeightedLines) Next() bool {
 if uint(e.idx)+1 < uint(len(e.lines)) {
  e.idx++
  return true
 }
 e.idx = len(e.lines)
 return false
}

// WeightedLine returns the current line of the iterator. Next must have been
// called prior to a call to WeightedLine.
func (e *OrderedWeightedLines) WeightedLine() graph.WeightedLine {
 if e.idx >= len(e.lines) || e.idx < 0 {
  return nil
 }
 return e.lines[e.idx]
}

// WeightedLineSlice returns all the remaining lines in the iterator and advances
// the iterator.
func (e *OrderedWeightedLines)
 WeightedLineSlice() []graph.WeightedLine {
 if e.idx >= len(e.lines) {
  return nil
 }
 idx := e.idx
 if idx == -1 {
  idx = 0
```

```
 }
 e.idx = len(e.lines)
 return e.lines[idx:]
}

// Reset returns the iterator to its initial state.
func (e *OrderedWeightedLines) Reset() {
 e.idx = -1
}
graph{{{E4}{E4}E4}E4}
// Copyright 2019 The Gonum Authors. All rights reserved.
// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

// Package r2 provides 2D vectors and boxes and operations on them.
package r2 // import "gonum.org/v1/gonum/spatial/r2"
graph{NO5{NO5}}
graph{NOD_}
digraph{{D:G:_->G:G:_->G:G:_}}
// Copyright 2017 The Gonum Authors. All rights reserved.
// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

package encoding

import "gonum.org/v1/gonum/graph"

// Builder is a graph that can have user-defined nodes and edges added.
type Builder interface {
 graph.Graph
 graph.Builder
}

// MultiBuilder is a graph that can have user-defined nodes and edges added.
type MultiBuilder interface {
 graph.Multigraph
 graph.MultigraphBuilder
}

// AttributeSetter is implemented by types that can set an encoded graph
// attribute.
type AttributeSetter interface {
 SetAttribute(Attribute) error
}

// Attributer defines graph.Node or graph.Edge values that can
// specify graph attributes.
type Attributer interface {
```

```
 Attributes() []Attribute
}

// Attribute is an encoded key value attribute pair use in graph encoding.
type Attribute struct {
 Key, Value string
}
graph{{ND{ND}{ND}ND}{ND}{ND{ND}ND}{ND}}
graph{i4{i2}}
graph{{su}{su}}
digraph {rankdir=LR;T[ape=point]H[abel=""]T->H[rrowsize=1.5arrowhead=vee]}
graph{Digra1{{Digra1{Digra9}}Digra5}Digra1{Digra5}}
// Copyright 2015 The Gonum Authors. All rights reserved.
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// license that can be found in the LICENSE file.

package testlapack

import (
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
 "gonum.org/v1/gonum/floats"
 "gonum.org/v1/gonum/lapack"
)

type Dlarfber interface {
 Dlarfter
 Dlarfb(side blas.Side, trans blas.Transpose, direct lapack.Direct,
  store lapack.StoreV, m, n, k int, v []float64, ldv int, t []float64, ldt int,
  c []float64, ldc int, work []float64, ldwork int)
}

func DlarfbTest(t *testing.T, impl Dlarfber) {
 rnd := rand.New(rand.NewSource(1))
 for _, store := range []lapack.StoreV{lapack.ColumnWise, lapack.RowWise} {
  for _, direct := range []lapack.Direct{lapack.Forward, lapack.Backward} {
   for _, side := range []blas.Side{blas.Left, blas.Right} {
    for _, trans := range []blas.Transpose{blas.Trans, blas.NoTrans} {
     for cas, test := range []struct {
      ma,
 na, cdim, lda, ldt, ldc int
     }{
      {6, 6, 6, 0, 0, 0},
      {6, 8, 10, 0, 0, 0},
```

```
    {6, 10, 8, 0, 0, 0},
    {8, 6, 10, 0, 0, 0},
    {8, 10, 6, 0, 0, 0},
    {10, 6, 8, 0, 0, 0},
    {10, 8, 6, 0, 0, 0},
    {6, 6, 6, 12, 15, 30},
    {6, 8, 10, 12, 15, 30},
    {6, 10, 8, 12, 15, 30},
    {8, 6, 10, 12, 15, 30},
    {8, 10, 6, 12, 15, 30},
    {10, 6, 8, 12, 15, 30},
    {10, 8, 6, 12, 15, 30},
    {6, 6, 6, 15, 12, 30},
    {6, 8, 10, 15, 12, 30},
    {6, 10, 8, 15, 12, 30},
    {8, 6, 10, 15, 12, 30},
    {8, 10, 6, 15, 12, 30},
    {10, 6, 8, 15, 12, 30},
    {10, 8, 6, 15, 12, 30},
   } {
    // Generate a matrix for QR
    ma := test.ma
    na := test.na
    lda := test.lda
    if lda == 0 {
     lda = na
    }
    a := make([]float64, ma*lda)
    for i := 0; i < ma; i++ {
     for j := 0; j < lda; j++ {
      a[i*lda+j] = rnd.Float64()
     }
    }
    k := min(ma, na)

    // H is always ma x
ma
    var m, n, rowsWork int
    switch {
    default:
     panic("not implemented")
    case side == blas.Left:
     m = test.ma
     n = test.cdim
     rowsWork = n
    case side == blas.Right:
     m = test.cdim
     n = test.ma
```

```
 rowsWork = m
}

// Use dgeqr2 to find the v vectors
tau := make([]float64, na)
work := make([]float64, na)
impl.Dgeqr2(ma, k, a, lda, tau, work)

// Correct the v vectors based on the direct and store
vMatTmp := extractVMat(ma, na, a, lda, lapack.Forward, lapack.ColumnWise)
vMat := constructVMat(vMatTmp, store, direct)
v := vMat.Data
ldv := vMat.Stride

// Use dlarft to find the t vector
ldt := test.ldt
if ldt == 0 {
 ldt = k
}
tm := make([]float64, k*ldt)

impl.Dlarft(direct, store, ma, k, v, ldv, tau, tm, ldt)

// Generate c matrix
ldc := test.ldc
if ldc == 0 {
 ldc = n
}
c := make([]float64,
m*ldc)
for i := 0; i < m; i++ {
 for j := 0; j < ldc; j++ {
  c[i*ldc+j] = rnd.Float64()
 }
}
cCopy := make([]float64, len(c))
copy(cCopy, c)

ldwork := k
work = make([]float64, rowsWork*k)

// Call Dlarfb with this information
impl.Dlarfb(side, trans, direct, store, m, n, k, v, ldv, tm, ldt, c, ldc, work, ldwork)

h := constructH(tau, vMat, store, direct)

cMat := blas64.General{
 Rows:   m,
```

```
        Cols:   n,
        Stride: ldc,
        Data:   make([]float64, m*ldc),
       }
       copy(cMat.Data, cCopy)
       ans := blas64.General{
        Rows:   m,
        Cols:   n,
        Stride: ldc,
        Data:   make([]float64, m*ldc),
       }
       copy(ans.Data, cMat.Data)
       switch {
       default:
        panic("not implemented")
       case side == blas.Left && trans == blas.NoTrans:
        blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, h, cMat, 0, ans)
       case side == blas.Left && trans == blas.Trans:
        blas64.Gemm(blas.Trans,
 blas.NoTrans, 1, h, cMat, 0, ans)
       case side == blas.Right && trans == blas.NoTrans:
        blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, cMat, h, 0, ans)
       case side == blas.Right && trans == blas.Trans:
        blas64.Gemm(blas.NoTrans, blas.Trans, 1, cMat, h, 0, ans)
       }
       if !floats.EqualApprox(ans.Data, c, 1e-14) {
        t.Errorf("Cas %v mismatch. Want %v, got %v.", cas, ans.Data, c)
       }
      }
     }
    }
   }
  }
 }
}
// Copyright 2014 The Gonum Authors. All rights reserved.
// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

package testblas

import (
 "testing"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/floats"
)

type Dtpmver interface {
```

```
 Dtpmv(ul blas.Uplo, tA blas.Transpose, d blas.Diag, n int, ap []float64, x []float64, incX int)
}

func DtpmvTest(t *testing.T, blasser Dtpmver) {
 for i, test := range []struct {
  n   int
  a   [][]float64
  x   []float64
  d   blas.Diag
  ul  blas.Uplo
  tA  blas.Transpose
  ans []float64
 }{
  {
   n: 3,
   a: [][]float64{
    {5, 6, 7},
    {0, 9, 10},
    {0, 0, 13},
   },
   x:   []float64{3, 4, 5},
   d:   blas.NonUnit,
   ul:  blas.Upper,
   tA:  blas.NoTrans,
   ans: []float64{74, 86, 65},
  },
  {
   n: 3,
   a: [][]float64{
    {5, 6, 7},
    {0, 9, 10},
    {0, 0, 13},
   },
   x:   []float64{3, 4, 5},
   d:   blas.Unit,
   ul:  blas.Upper,
   tA:  blas.NoTrans,
   ans: []float64{62, 54, 5},
  },
  {
   n:
 3,
   a: [][]float64{
    {5, 0, 0},
    {6, 9, 0},
    {7, 10, 13},
   },
   x:   []float64{3, 4, 5},
```

```
 d:   blas.NonUnit,
 ul:  blas.Lower,
 tA:  blas.NoTrans,
 ans: []float64{15, 54, 126},
},
{
 n: 3,
 a: [][]float64{
  {1, 0, 0},
  {6, 1, 0},
  {7, 10, 1},
 },
 x:   []float64{3, 4, 5},
 d:   blas.Unit,
 ul:  blas.Lower,
 tA:  blas.NoTrans,
 ans: []float64{3, 22, 66},
},
{
 n: 3,
 a: [][]float64{
  {5, 6, 7},
  {0, 9, 10},
  {0, 0, 13},
 },
 x:   []float64{3, 4, 5},
 d:   blas.NonUnit,
 ul:  blas.Upper,
 tA:  blas.Trans,
 ans: []float64{15, 54, 126},
},
{
 n: 3,
 a: [][]float64{
  {1, 6, 7},
  {0, 1, 10},
  {0, 0, 1},
 },
 x:   []float64{3, 4, 5},
 d:   blas.Unit,
 ul:  blas.Upper,
 tA:  blas.Trans,
 ans: []float64{3, 22, 66},
},
{
 n: 3,
 a: [][]float64{
  {5, 0, 0},
```

```
    {6, 9, 0},
    {7, 10, 13},
   },
   x:   []float64{3, 4, 5},
   d:   blas.NonUnit,
   ul:  blas.Lower,
   tA:
  blas.Trans,
   ans: []float64{74, 86, 65},
  },
 } {
  incTest := func(incX, extra int) {
   aFlat := flattenTriangular(test.a, test.ul)
   x := makeIncremented(test.x, incX, extra)
   blasser.Dtpmv(test.ul, test.tA, test.d, test.n, aFlat, x, incX)
   ans := makeIncremented(test.ans, incX, extra)
   if !floats.EqualApprox(x, ans, 1e-14) {
    t.Errorf("Case %v, idx %v: Want %v, got %v.", i, incX, ans, x)
   }
  }
  incTest(1, 0)
  incTest(-3, 3)
  incTest(4, 3)
 }
}
graph{{SU2}SU0{SU2}SU2{{SU2}SU2}{SU2}SU0{SU2}}
// Copyright 2019 The Go Authors. All rights reserved.
// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

package frontend

import (
 "bytes"
 "context"
 "sort"
 "strconv"

 "github.com/google/safehtml"
 "golang.org/x/pkgsite/internal"
 "golang.org/x/pkgsite/internal/licenses"
)

// License contains information used for a single license section.
type License struct {
 *licenses.License
 Anchor safehtml.Identifier
 Source string
```

```
}

// LicensesDetails contains license information for a package or module.
type LicensesDetails struct {
 IsRedistributable bool
 Licenses          []License
}

// LicenseMetadata contains license metadata that is used in the package
// header.
type LicenseMetadata struct {
 Type   string
 Anchor safehtml.Identifier
}

// fetchLicensesDetails fetches license data for the package version specified by
// path and version from the database and returns a LicensesDetails.
func fetchLicensesDetails(ctx context.Context,
 ds internal.DataSource, um *internal.UnitMeta) (*LicensesDetails, error) {
 u, err := ds.GetUnit(ctx, um, internal.WithMain|internal.WithLicenses, internal.BuildContext{})
 if err != nil {
  return nil, err
 }
 return &LicensesDetails{IsRedistributable: u.IsRedistributable, Licenses: transformLicenses(um.ModulePath,
um.Version, u.LicenseContents)}, nil
}

// transformLicenses transforms licenses.License into a License
// by adding an anchor field.
func transformLicenses(modulePath, requestedVersion string, dbLicenses []*licenses.License) []License {
 licenses := make([]License, len(dbLicenses))
 var filePaths []string
 for _, l := range dbLicenses {
  filePaths = append(filePaths, l.FilePath)
 }
 anchors := licenseAnchors(filePaths)
 for i, l := range dbLicenses {
  l.Contents = bytes.ReplaceAll(l.Contents, []byte("\r"), nil)
  licenses[i] = License{
   Anchor:  anchors[i],
   License: l,
   Source:  fileSource(modulePath, requestedVersion, l.FilePath),
  }
 }
 return licenses
}

//
```

```
 transformLicenseMetadata transforms licenses.Metadata into a LicenseMetadata
// by adding an anchor field.
func transformLicenseMetadata(dbLicenses []*licenses.Metadata) []LicenseMetadata {
 var mds []LicenseMetadata
 var filePaths []string
 for _, l := range dbLicenses {
  filePaths = append(filePaths, l.FilePath)
 }
 anchors := licenseAnchors(filePaths)
 for i, l := range dbLicenses {
  anchor := anchors[i]
  for _, typ := range l.Types {
   mds = append(mds, LicenseMetadata{
    Type:   typ,
    Anchor: anchor,
   })
  }
 }
 return mds
}

// licenseAnchors returns anchors (HTML identifiers) for all the paths, in the
// same order. If the paths are unique, it ensures that the resulting anchors
// are unique. The argument is modified.
func licenseAnchors(paths []string) []safehtml.Identifier {
 // Remember the original index of each path.
 index := map[string]int{}
 for i, p := range paths {
  index[p] = i
 }
 // Pick a canonical order for the paths, so we assign the same anchors
 //
 the same set of paths regardless of the order they're given to use.
 sort.Strings(paths)
 ids := make([]safehtml.Identifier, len(paths))
 for i, p := range paths {
  ids[index[p]] = safehtml.IdentifierFromConstantPrefix("lic", strconv.Itoa(i))
 }
 return ids
}
graph{{STRE{STRE}}STRE}
graph{{{{subO:subO}}}}
graph{g{{g}{g{{g}g}}g}}
graph{{{EDG_}}}
image: debian/testing
packages:
- curl
- unzip
```

```
- golang
sources:
- https://git.sr.ht/~eliasnaur/gio
environment:
  PATH: /usr/bin:/home/build/go/bin:/home/build/android/tools/bin
  ANDROID_HOME: /home/build/android
  android_sdk_tools_zip: sdk-tools-linux-3859397.zip
  android_ndk_zip: android-ndk-r20-linux-x86_64.zip
tasks:
- install_jdk8: |
    curl -so jdk.deb "https://cdn.azul.com/zulu/bin/zulu8.42.0.21-ca-jdk8.0.232-linux_amd64.deb"
    sudo apt install -y -f ./jdk.deb
- install_android: |
    mkdir android
    cd android
    curl -so sdk-tools.zip https://dl.google.com/android/repository/$android_sdk_tools_zip
    unzip -q sdk-tools.zip
    rm sdk-tools.zip
    curl -so ndk.zip https://dl.google.com/android/repository/$android_ndk_zip
    unzip -q ndk.zip
    rm ndk.zip
    mv android-ndk-* ndk-bundle
    yes|sdkmanager --licenses
    sdkmanager "platforms;android-29" "build-tools;29.0.2"
- install_gogio: |
    cd gio/cmd
    go install ./gogio
- test_android:
 |
    cd gio/example
    gogio -target android ./kitchen
graph{{DIGRAG{{DIGRAG{DIGRAG}DIGRAG}DIGRAG}{DIGRAG}}}
graph{{{sua{{{sua}{sua}{sua}}}sua}{sua}}}
graph{GR{GR{{GR{{GR}GR}}}}}
# Gonum diff
[![GoDoc](https://godoc.org/gonum.org/v1/gonum/diff?status.svg)](https://godoc.org/gonum.org/v1/gonum/diff)

Package diff is a package for computing derivatives of functions for the Go language.
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// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

package r1

// Interval represents an interval.
type Interval struct {
 Min, Max float64
}
```

```
graph{graph[]Graph[]}
digraph{STm}
Graph{{{Subgr}{Subgr}}Subgr}
// SPDX-License-Identifier: Unlicense OR MIT

package gpu

import (
 "errors"
 "strings"

 "gioui.org/app/internal/gl"
)

type context struct {
 caps caps
 *gl.Functions
}

type caps struct {
 EXT_disjoint_timer_query bool
 // floatTriple holds the settings for floating point
 // textures.
 floatTriple textureTriple
 // Single channel alpha textures.
 alphaTriple textureTriple
 srgbaTriple textureTriple
}

// textureTriple holds the type settings for
// a TexImage2D call.
type textureTriple struct {
 internalFormat int
 format         gl.Enum
 typ            gl.Enum
}

func newContext(glctx *gl.Functions) (*context, error) {
 ctx := &context{
  Functions: glctx,
 }
 exts := strings.Split(ctx.GetString(gl.EXTENSIONS), " ")
 glVer := ctx.GetString(gl.VERSION)
 ver, err := gl.ParseGLVersion(glVer)
 if err != nil {
  return nil, err
 }
 floatTriple, err := floatTripleFor(ctx, ver, exts)
```

```
 if err != nil {
  return nil, err
 }
 srgbaTriple, err := srgbaTripleFor(ver, exts)
 if err != nil {
  return
 nil, err
 }
 hasTimers := hasExtension(exts, "GL_EXT_disjoint_timer_query_webgl2") || hasExtension(exts,
"GL_EXT_disjoint_timer_query")
 ctx.caps = caps{
  EXT_disjoint_timer_query: hasTimers,
  floatTriple:              floatTriple,
  alphaTriple:              alphaTripleFor(ver),
  srgbaTriple:              srgbaTriple,
 }
 return ctx, nil
}

// floatTripleFor determines the best texture triple for floating point FBOs.
func floatTripleFor(ctx *context, ver [2]int, exts []string) (textureTriple, error) {
 var triples []textureTriple
 if ver[0] >= 3 {
  triples = append(triples, textureTriple{gl.R16F, gl.Enum(gl.RED), gl.Enum(gl.HALF_FLOAT)})
 }
 if hasExtension(exts, "GL_OES_texture_half_float") && hasExtension(exts, "GL_EXT_color_buffer_half_float") {
  // Try single channel.
  triples = append(triples, textureTriple{gl.LUMINANCE, gl.Enum(gl.LUMINANCE),
gl.Enum(gl.HALF_FLOAT_OES)})
  // Fallback to 4 channels.
  triples = append(triples, textureTriple{gl.RGBA, gl.Enum(gl.RGBA),
 gl.Enum(gl.HALF_FLOAT_OES)})
 }
 if hasExtension(exts, "GL_OES_texture_float") || hasExtension(exts, "GL_EXT_color_buffer_float") {
  triples = append(triples, textureTriple{gl.RGBA, gl.Enum(gl.RGBA), gl.Enum(gl.FLOAT)})
 }
 tex := ctx.CreateTexture()
 defer ctx.DeleteTexture(tex)
 ctx.BindTexture(gl.TEXTURE_2D, tex)
 ctx.TexParameteri(gl.TEXTURE_2D, gl.TEXTURE_WRAP_S, gl.CLAMP_TO_EDGE)
 ctx.TexParameteri(gl.TEXTURE_2D, gl.TEXTURE_WRAP_T, gl.CLAMP_TO_EDGE)
 ctx.TexParameteri(gl.TEXTURE_2D, gl.TEXTURE_MAG_FILTER, gl.NEAREST)
 ctx.TexParameteri(gl.TEXTURE_2D, gl.TEXTURE_MIN_FILTER, gl.NEAREST)
 fbo := ctx.CreateFramebuffer()
 defer ctx.DeleteFramebuffer(fbo)
 defFBO := gl.Framebuffer(ctx.GetBinding(gl.FRAMEBUFFER_BINDING))
 ctx.BindFramebuffer(gl.FRAMEBUFFER, fbo)
 defer ctx.BindFramebuffer(gl.FRAMEBUFFER, defFBO)
```

```
 for _, tt := range triples {
  const size = 256
  ctx.TexImage2D(gl.TEXTURE_2D, 0, tt.internalFormat, size, size, tt.format, tt.typ, nil)
  ctx.FramebufferTexture2D(gl.FRAMEBUFFER,
 gl.COLOR_ATTACHMENT0, gl.TEXTURE_2D, tex, 0)
  if st := ctx.CheckFramebufferStatus(gl.FRAMEBUFFER); st == gl.FRAMEBUFFER_COMPLETE {
   return tt, nil
  }
 }
 return textureTriple{}, errors.New("floating point fbos not supported")
}

func srgbaTripleFor(ver [2]int, exts []string) (textureTriple, error) {
 switch {
 case ver[0] >= 3:
  return textureTriple{gl.SRGB8_ALPHA8, gl.Enum(gl.RGBA), gl.Enum(gl.UNSIGNED_BYTE)}, nil
 case hasExtension(exts, "GL_EXT_sRGB"):
  return textureTriple{gl.SRGB_ALPHA_EXT, gl.Enum(gl.SRGB_ALPHA_EXT),
gl.Enum(gl.UNSIGNED_BYTE)}, nil
 default:
  return textureTriple{}, errors.New("no sRGB texture formats found")
 }
}

func alphaTripleFor(ver [2]int) textureTriple {
 intf, f := gl.R8, gl.Enum(gl.RED)
 if ver[0] < 3 {
  // R8, RED not supported on OpenGL ES 2.0.
  intf, f = gl.LUMINANCE, gl.Enum(gl.LUMINANCE)
 }
 return textureTriple{intf, f, gl.UNSIGNED_BYTE}
}

func hasExtension(exts []string, ext string) bool {
 for _, e := range exts {
  if ext == e
  {
   return true
  }
 }
 return false
}
//** github.com/ecletus-pkg/fontawesome_com@v0.0.0-20200904170934-0e02fad1db22 **//

{{Types "MIT"}}

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```

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graph{{Nod}Nod}
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// license that can be found in the LICENSE file.

package testblas

import (
 "testing"

 "golang.org/x/exp/rand"

```
 "gonum.org/v1/gonum/blas"
)

func DgemmBenchmark(b *testing.B, dgemm Dgemmer, m, n, k int, tA, tB blas.Transpose) {
 a := make([]float64, m*k)
 for i := range a {
  a[i] = rand.Float64()
 }
 bv := make([]float64, k*n)
 for i := range bv {
  bv[i] = rand.Float64()
 }
 c := make([]float64, m*n)
 for i := range c {
  c[i] = rand.Float64()
 }
 var lda, ldb int
 if tA == blas.Trans {
  lda = m
 } else {
  lda = k
 }
 if tB == blas.Trans {
  ldb = k
 } else {
  ldb = n
 }
 ldc := n
 b.ResetTimer()
 for i := 0; i < b.N; i++ {
  dgemm.Dgemm(tA, tB, m, n, k, 3.0, a, lda, bv, ldb, 1.0, c, ldc)
 }
}
graph{{SU}{SU{SU}{SU}SU}}
graph{{{{digh}{digg}digd{{digh}}}}digh}
// Copyright 2017 The Gonum Authors. All rights reserved.
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// license that can be found in the LICENSE file.

// +build !amd64 noasm appengine safe

package f32

// Ger performs the rank-one operation
//  A += alpha * x * y
// where A is an mn dense matrix, x and y are vectors, and alpha is a scalar.
func Ger(m, n uintptr, alpha float32, x []float32, incX uintptr, y []float32, incY uintptr, a []float32, lda uintptr) {
```

```
 if incX == 1 && incY == 1 {
  x = x[:m]
  y = y[:n]
  for i, xv := range x {
   AxpyUnitary(alpha*xv, y, a[uintptr(i)*lda:uintptr(i)*lda+n])
  }
  return
 }

 var ky, kx uintptr
 if int(incY) < 0 {
  ky = uintptr(-int(n-1) * int(incY))
 }
 if int(incX) < 0 {
  kx = uintptr(-int(m-1) * int(incX))
 }

 ix := kx
 for i := 0; i < int(m); i++ {
  AxpyInc(alpha*x[ix], y, a[uintptr(i)*lda:uintptr(i)*lda+n], uintptr(n), uintptr(incY), 1, uintptr(ky), 0)
  ix += incX
 }
}
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Graph{{SubD{SubD{SubF}}SubD{SubF}}}
graph{N{N}N{N}N{N}N{N}{N}N{N}N{N}{N}N{N{N}N}N{N}N{N{N}N{N}N{N}{N}N{N}N{N}N}}
// SPDX-License-Identifier: Unlicense OR MIT

package window

import (
 "errors"
 "syscall/js"

 "gioui.org/app/internal/gl"
)

type context struct {
 ctx     js.Value
 cnv     js.Value
 f       *gl.Functions
 srgbFBO *gl.SRGBFBO
}

func newContext(w *window) (*context, error) {
 args := map[string]interface{}{
  // Enable low latency rendering.
  // See https://developers.google.com/web/updates/2019/05/desynchronized.
```

```
 "desynchronized":       true,
 "preserveDrawingBuffer": true,
 }
 version := 2
 ctx := w.cnv.Call("getContext", "webgl2", args)
 if ctx.IsNull() {
  version = 1
  ctx = w.cnv.Call("getContext", "webgl", args)
 }
 if ctx.IsNull() {
  return nil, errors.New("app: webgl is not supported")
 }
 f := &gl.Functions{Ctx: ctx}
 if err := f.Init(version); err != nil {
  return nil, err
 }
 c := &context{
  ctx: ctx,
  cnv: w.cnv,
  f:   f,
 }
 return c, nil
}

func (c *context) Functions() *gl.Functions {
 return c.f
}

func (c *context) Release() {
 if c.srgbFBO != nil {
  c.srgbFBO.Release()
  c.srgbFBO
 = nil
 }
}

func (c *context) Present() error {
 if c.srgbFBO != nil {
  c.srgbFBO.Blit()
 }
 if c.srgbFBO != nil {
  c.srgbFBO.AfterPresent()
 }
 if c.ctx.Call("isContextLost").Bool() {
  return errors.New("context lost")
 }
 return nil
}
```

```
func (c *context) Lock() {}

func (c *context) Unlock() {}

func (c *context) MakeCurrent() error {
 if c.srgbFBO == nil {
  var err error
  c.srgbFBO, err = gl.NewSRGBFBO(c.f)
  if err != nil {
   c.Release()
   c.srgbFBO = nil
   return err
  }
 }
 w, h := c.cnv.Get("width").Int(), c.cnv.Get("height").Int()
 if err := c.srgbFBO.Refresh(w, h); err != nil {
  c.Release()
  return err
 }
 return nil
}

func (w *window) NewContext() (Context, error) {
 return newContext(w)
}
graph{{{{{{{{{stR}stI{{stR}stI}}}stI}{stR}stR}stI}}}stI}
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// license that can be found in the LICENSE file.

package iterator

import (
 "reflect"

 "gonum.org/v1/gonum/graph"
)

// OrderedNodes implements the graph.Nodes and graph.NodeSlicer interfaces.
// The iteration order of OrderedNodes is the order of nodes passed to
// NewNodeIterator.
type OrderedNodes struct {
 idx   int
 nodes []graph.Node
}

// NewOrderedNodes returns a OrderedNodes initialized with the provided nodes.
```

```
func NewOrderedNodes(nodes []graph.Node) *OrderedNodes {
 return &OrderedNodes{idx: -1, nodes: nodes}
}

// Len returns the remaining number of nodes to be iterated over.
func (n *OrderedNodes) Len() int {
 if n.idx >= len(n.nodes) {
  return 0
 }
 if n.idx <= 0 {
  return len(n.nodes)
 }
 return len(n.nodes[n.idx:])
}

// Next returns whether the next call of Node will return a valid node.
func (n *OrderedNodes) Next() bool {
 if uint(n.idx)+1 < uint(len(n.nodes))
 {
  n.idx++
  return true
 }
 n.idx = len(n.nodes)
 return false
}

// Node returns the current node of the iterator. Next must have been
// called prior to a call to Node.
func (n *OrderedNodes) Node() graph.Node {
 if n.idx >= len(n.nodes) || n.idx < 0 {
  return nil
 }
 return n.nodes[n.idx]
}

// NodeSlice returns all the remaining nodes in the iterator and advances
// the iterator.
func (n *OrderedNodes) NodeSlice() []graph.Node {
 if n.idx >= len(n.nodes) {
  return nil
 }
 idx := n.idx
 if idx == -1 {
  idx = 0
 }
 n.idx = len(n.nodes)
 return n.nodes[idx:]
}
```

```
// Reset returns the iterator to its initial state.
func (n *OrderedNodes) Reset() {
 n.idx = -1
}

// ImplicitNodes implements the graph.Nodes interface for a set of nodes over
// a contiguous ID range.
type ImplicitNodes struct {
 beg, end int
 curr     int
 newNode  func(id int) graph.Node
}

// NewImplicitNodes returns a new implicit node iterator spanning nodes in [beg,end).
// The provided new func maps the
 id to a graph.Node. NewImplicitNodes will panic
// if beg is greater than end.
func NewImplicitNodes(beg, end int, new func(id int) graph.Node) *ImplicitNodes {
 if beg > end {
  panic("iterator: invalid range")
 }
 return &ImplicitNodes{beg: beg, end: end, curr: beg - 1, newNode: new}
}

// Len returns the remaining number of nodes to be iterated over.
func (n *ImplicitNodes) Len() int {
 return n.end - n.curr - 1
}

// Next returns whether the next call of Node will return a valid node.
func (n *ImplicitNodes) Next() bool {
 if n.curr == n.end {
  return false
 }
 n.curr++
 return n.curr < n.end
}

// Node returns the current node of the iterator. Next must have been
// called prior to a call to Node.
func (n *ImplicitNodes) Node() graph.Node {
 if n.Len() == -1 || n.curr < n.beg {
  return nil
 }
 return n.newNode(n.curr)
}
```

```
// Reset returns the iterator to its initial state.
func (n *ImplicitNodes) Reset() {
 n.curr = n.beg - 1
}

// NodeSlice returns all the remaining nodes in the
 iterator and advances
// the iterator.
func (n *ImplicitNodes) NodeSlice() []graph.Node {
 nodes := make([]graph.Node, 0, n.Len())
 for n.curr++; n.curr < n.end; n.curr++ {
  nodes = append(nodes, n.newNode(n.curr))
 }
 return nodes
}

// Nodes implements the graph.Nodes interfaces.
// The iteration order of Nodes is randomized.
type Nodes struct {
 nodes reflect.Value
 iter  *reflect.MapIter
 pos   int
 curr  graph.Node
}

// NewNodes returns a Nodes initialized with the provided nodes, a
// map of node IDs to graph.Nodes. No check is made that the keys
// match the graph.Node IDs, and the map keys are not used.
//
// Behavior of the Nodes is unspecified if nodes is mutated after
// the call the NewNodes.
func NewNodes(nodes map[int64]graph.Node) *Nodes {
 rv := reflect.ValueOf(nodes)
 return &Nodes{nodes: rv, iter: rv.MapRange()}
}

// Len returns the remaining number of nodes to be iterated over.
func (n *Nodes) Len() int {
 return n.nodes.Len() - n.pos
}

// Next returns whether the
 next call of Node will return a valid node.
func (n *Nodes) Next() bool {
 if n.pos >= n.nodes.Len() {
  return false
 }
 ok := n.iter.Next()
```

```
 if ok {
  n.pos++
  n.curr = n.iter.Value().Interface().(graph.Node)
 }
 return ok
}

// Node returns the current node of the iterator. Next must have been
// called prior to a call to Node.
func (n *Nodes) Node() graph.Node {
 return n.curr
}

// Reset returns the iterator to its initial state.
func (n *Nodes) Reset() {
 n.curr = nil
 n.pos = 0
 n.iter = n.nodes.MapRange()
}
graph{{AA}AAA}
graph{GRAPU{{GRAPU{GRAPU}{GRAPU}GRAPU{GRAPU}{GRAPU}GRAPU{GRAPR}}}}
graph{{{{{DigrJ}DigrJ{DigrJ}}DigrT}}}
# Gonum internal
[![GoDoc](https://godoc.org/gonum.org/v1/gonum/internal?status.svg)](https://godoc.org/gonum.org/v1/gonum/inte
rnal)

This is the set of internal packages for the Gonum project.
graph{"\\\\\\\\\\\\\\\\\\\\\\\\\\"}
// SPDX-License-Identifier: Unlicense OR MIT

package material

import (
 "image"
 "image/color"
 "image/draw"

 "gioui.org/f32"
 "gioui.org/layout"
 "gioui.org/op/paint"
 "gioui.org/unit"
 "golang.org/x/exp/shiny/iconvg"
)

type Icon struct {
 Color color.RGBA
 src   []byte
 size  unit.Value
```

```
 // Cached values.
 op       paint.ImageOp
 imgSize  int
 imgColor color.RGBA
}

// NewIcon returns a new Icon from IconVG data.
func NewIcon(data []byte) (*Icon, error) {
 _, err := iconvg.DecodeMetadata(data)
 if err != nil {
  return nil, err
 }
 return &Icon{src: data, Color: rgb(0x000000)}, nil
}

func (ic *Icon) Layout(gtx *layout.Context, sz unit.Value) {
 ico := ic.image(gtx.Px(sz))
 ico.Add(gtx.Ops)
 paint.PaintOp{
  Rect: f32.Rectangle{
   Max: toPointF(ico.Size()),
  },
 }.Add(gtx.Ops)
}

func (ic *Icon) image(sz int) paint.ImageOp {
 if sz == ic.imgSize && ic.Color == ic.imgColor {
  return ic.op
 }
 m, _ := iconvg.DecodeMetadata(ic.src)
 dx, dy := m.ViewBox.AspectRatio()
 img := image.NewRGBA(image.Rectangle{Max:
 image.Point{X: sz, Y: int(float32(sz) * dy / dx)}})
 var ico iconvg.Rasterizer
 ico.SetDstImage(img, img.Bounds(), draw.Src)
 m.Palette[0] = ic.Color
 iconvg.Decode(&ico, ic.src, &iconvg.DecodeOptions{
  Palette: &m.Palette,
 })
 ic.op = paint.NewImageOp(img)
 ic.imgSize = sz
 ic.imgColor = ic.Color
 return ic.op
}
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graph{"\#I\I3\#I\I3"}
graph{{{digrap{digrap}digrap{digrap}digrap}digrap}}
```

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// SPDX-License-Identifier: Unlicense OR MIT

// Package headless implements headless windows for rendering
// an operation list to an image.
package headless

import (
 "fmt"
 "image"
 "runtime"

 "gioui.org/app/internal/gl"
 "gioui.org/app/internal/gpu"
 "gioui.org/op"
)

// Window is a headless window.
type Window struct {
 size image.Point
 ctx  context
 fbo  *gl.SRGBFBO
 gpu  *gpu.GPU
}

type context interface {
 Functions() *gl.Functions
 MakeCurrent() error
 ReleaseCurrent()
 Release()
}

// NewWindow creates a new headless window.
func NewWindow(width, height int) (*Window, error) {
 ctx, err := newContext()
 if err != nil {
  return nil, err
 }
 w := &Window{
  size: image.Point{X: width, Y: height},
  ctx:  ctx,
 }
 err = contextDo(ctx, func() error {
  f := ctx.Functions()
  fbo, err := gl.NewSRGBFBO(f)
  if err != nil {
```

```
  ctx.Release()
  return err
 }
 if err := fbo.Refresh(width, height); err != nil {
  fbo.Release()
  ctx.Release()
  return err
 }
 gpu, err := gpu.New(f)
 if
err != nil {
  fbo.Release()
  ctx.Release()
  return err
 }
 w.fbo = fbo
 w.gpu = gpu
 return err
})
if err != nil {
 return nil, err
}
return w, nil
}

// Release resources associated with the window.
func (w *Window) Release() {
 contextDo(w.ctx, func() error {
  if w.gpu != nil {
   w.gpu.Release()
   w.gpu = nil
  }
  if w.fbo != nil {
   w.fbo.Release()
   w.fbo = nil
  }
  if w.ctx != nil {
   w.ctx.Release()
   w.ctx = nil
  }
  return nil
 })
}

// Frame replace the window content and state with the
// operation list.
func (w *Window) Frame(frame *op.Ops) {
 contextDo(w.ctx, func() error {
```

```
 w.gpu.Collect(false, w.size, frame)
 w.gpu.Frame(false, w.size)
 w.gpu.EndFrame(false)
 return nil
 })
}

// Screenshot returns an image with the content of the window.
func (w *Window) Screenshot() (*image.RGBA, error) {
 img := image.NewRGBA(image.Rectangle{Max: w.size})
 if len(img.Pix) != w.size.X*w.size.Y*4 {
  panic("unexpected RGBA size")
 }
 contextDo(w.ctx,
 func() error {
  f := w.ctx.Functions()
  f.ReadPixels(0, 0, w.size.X, w.size.Y, gl.RGBA, gl.UNSIGNED_BYTE, img.Pix)
  if glErr := f.GetError(); glErr != gl.NO_ERROR {
   return fmt.Errorf("glReadPixels failed: %d", glErr)
  }
  return nil
 })
 // Flip image in y-direction. OpenGL's origin is in the lower
 // left corner.
 row := make([]uint8, img.Stride)
 for y := 0; y < w.size.Y/2; y++ {
  y1 := w.size.Y - y - 1
  dest := img.PixOffset(0, y1)
  src := img.PixOffset(0, y)
  copy(row, img.Pix[dest:])
  copy(img.Pix[dest:], img.Pix[src:src+len(row)])
  copy(img.Pix[src:], row)
 }
 return img, nil
}

func contextDo(ctx context, f func() error) error {
 errCh := make(chan error)
 go func() {
  runtime.LockOSThread()
  defer runtime.UnlockOSThread()
  if err := ctx.MakeCurrent(); err != nil {
   errCh <- err
   return
  }
  defer ctx.ReleaseCurrent()
  errCh <- f()
 }()
```

```
 return <-errCh
}
graph{{Digh{{Digrh}Digrh{{Digrh}Digrr}}}Digrh{{Digrh}Digrr}}
graph{{Subgi{Subgc}}}
graph{<TTDDTT>}
digraph{E->E->E->E->E->E}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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// license that can be found in the LICENSE file.

package unit

import (
 "errors"
 "fmt"
 "math"
 "unicode/utf8"
)

// Resistance represents an electrical resistance, impedance or reactance in Ohms.
type Resistance float64

const Ohm Resistance = 1

// Unit converts the Resistance to a *Unit
func (r Resistance) Unit() *Unit {
 return New(float64(r), Dimensions{
  CurrentDim: -2,
  LengthDim:  2,
  MassDim:    1,
  TimeDim:    -3,
 })
}

// Resistance allows Resistance to implement a Resistancer interface
func (r Resistance) Resistance() Resistance {
 return r
}

// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (r *Resistance) From(u Uniter) error {
 if !DimensionsMatch(u, Ohm) {
  *r = Resistance(math.NaN())
  return errors.New("Dimension mismatch")
 }
```

```
 *r
 = Resistance(u.Unit().Value())
 return nil
}

func (r Resistance) Format(fs fmt.State, c rune) {
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", r, float64(r))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " "
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(r))
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(r))
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(r))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(r))
  }
  fmt.Fprint(fs, unit)
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g )", c, r, float64(r))
 }
}
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graph{{{_Q_E_Q_Z_N_D_Y_W_C_U}_J_P_T_T_J_I_V}}
graph{SUBGR9{{SUBGR5}{SUBGR5}}}
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```

```
Graph{{Subgr}{Subgr{Subgr}{Subgr}{Subgr}}Subgr}
graph{.9{.5{.5{.5}.5{.5{.5{.5}.5.5}}.5}.5{.5{.5{.5}.5.5}}}}
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// Package path provides graph path finding functions.
package path // import "gonum.org/v1/gonum/graph/path"
graph{{{subgrap{subgrap}subgrap}}}
graph{{STRIC0}STRIC0}
// Copyright 2016 The Gonum Authors. All rights reserved.
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package testlapack

import (
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
 "gonum.org/v1/gonum/floats"
 "gonum.org/v1/gonum/lapack"
)

type Dsteqrer interface {
 Dsteqr(compz lapack.EVComp, n int, d, e, z []float64, ldz int, work []float64) (ok bool)
 Dorgtrer
}

func DsteqrTest(t *testing.T, impl Dsteqrer) {
 rnd := rand.New(rand.NewSource(1))
 for _, compz := range []lapack.EVComp{lapack.EVOrig, lapack.EVTridiag} {
  for _, test := range []struct {
   n, lda int
  }{
   {1, 0},
   {4, 0},
   {8, 0},
   {10, 0},

   {2, 10},
   {8, 10},
   {10, 20},
  } {
   for cas := 0; cas < 100; cas++ {
```

```
n := test.n
lda := test.lda
if lda == 0 {
 lda = n
}
d := make([]float64, n)
for i := range d {
 d[i] = rnd.Float64()
}
e := make([]float64, n-1)
for
i := range e {
 e[i] = rnd.Float64()
}
a := make([]float64, n*lda)
for i := range a {
 a[i] = rnd.Float64()
}
dCopy := make([]float64, len(d))
copy(dCopy, d)
eCopy := make([]float64, len(e))
copy(eCopy, e)
aCopy := make([]float64, len(a))
copy(aCopy, a)
if compz == lapack.EVOrig {
 uplo := blas.Upper
 tau := make([]float64, n)
 work := make([]float64, 1)
 impl.Dsytrd(blas.Upper, n, a, lda, d, e, tau, work, -1)
 work = make([]float64, int(work[0]))
 // Reduce A to symmetric tridiagonal form.
 impl.Dsytrd(uplo, n, a, lda, d, e, tau, work, len(work))
 // Compute the orthogonal matrix Q.
 impl.Dorgtr(uplo, n, a, lda, tau, work, len(work))
} else {
 for i := 0; i < n; i++ {
  for j := 0; j < n; j++ {
   a[i*lda+j] = 0
   if i == j {
    a[i*lda+j] = 1
   }
  }
 }
}
work := make([]float64, 2*n)

aDecomp := make([]float64, len(a))
copy(aDecomp, a)
```

```
  dDecomp
:= make([]float64, len(d))
  copy(dDecomp, d)
  eDecomp := make([]float64, len(e))
  copy(eDecomp, e)
  impl.Dsteqr(compz, n, d, e, a, lda, work)
  dAns := make([]float64, len(d))
  copy(dAns, d)

  var truth blas64.General
  if compz == lapack.EVOrig {
   truth = blas64.General{
    Rows:   n,
    Cols:   n,
    Stride: n,
    Data:   make([]float64, n*n),
   }
   for i := 0; i < n; i++ {
    for j := i; j < n; j++ {
     v := aCopy[i*lda+j]
     truth.Data[i*truth.Stride+j] = v
     truth.Data[j*truth.Stride+i] = v
    }
   }
  } else {
   truth = blas64.General{
    Rows:   n,
    Cols:   n,
    Stride: n,
    Data:   make([]float64, n*n),
   }
   for i := 0; i < n; i++ {
    truth.Data[i*truth.Stride+i] = dCopy[i]
    if i != n-1 {
     truth.Data[(i+1)*truth.Stride+i] = eCopy[i]
     truth.Data[i*truth.Stride+i+1] = eCopy[i]
    }
   }
  }

  V := blas64.General{
   Rows:   n,
   Cols:   n,
   Stride:
lda,
   Data:   a,
  }
  if !eigenDecompCorrect(d, truth, V) {
```

```
     t.Errorf("Eigen reconstruction mismatch. fromFull = %v, n = %v",
      compz == lapack.EVOrig, n)
    }

    // Compare eigenvalues when not computing eigenvectors.
    for i := range work {
     work[i] = rnd.Float64()
    }
    impl.Dsteqr(lapack.EVCompNone, n, dDecomp, eDecomp, aDecomp, lda, work)
    if !floats.EqualApprox(d, dAns, 1e-8) {
     t.Errorf("Eigenvalue mismatch when eigenvectors not computed")
    }
   }
  }
 }
}

// eigenDecompCorrect returns whether the eigen decomposition is correct.
// It checks if
//  A * v   * v
// where the eigenvalues  are stored in values, and the eigenvectors are stored
// in the columns of v.
func eigenDecompCorrect(values []float64, A, V blas64.General) bool {
 n := A.Rows
 for i := 0; i < n; i++ {
  lambda := values[i]
  vector := make([]float64, n)
  ans2 := make([]float64, n)
  for j := range vector {
   v := V.Data[j*V.Stride+i]
   vector[j] = v
   ans2[j]
 = lambda * v
  }
  v := blas64.Vector{Inc: 1, Data: vector}
  ans1 := blas64.Vector{Inc: 1, Data: make([]float64, n)}
  blas64.Gemv(blas.NoTrans, 1, A, v, 0, ans1)
  if !floats.EqualApprox(ans1.Data, ans2, 1e-8) {
   return false
  }
 }
 return true
}
graph{SUBGR{SUBGR}}
graph{{{{{{{edge5}}}}}edge5}}}
graph{subGrap}
graph{  subgraph{} subgraph {}}
```

```
// SPDX-License-Identifier: Unlicense OR MIT

package widget

import (
 "time"

 "gioui.org/f32"
 "gioui.org/gesture"
 "gioui.org/layout"
 "gioui.org/op"
)

type Button struct {
 click gesture.Click
 // clicks tracks the number of unreported clicks.
 clicks int
 // prevClicks tracks the number of unreported clicks
 // that belong to the previous frame.
 prevClicks int
 history    []Click
}

// Click represents a historic click.
type Click struct {
 Position f32.Point
 Time     time.Time
}

func (b *Button) Clicked(gtx *layout.Context) bool {
 b.processEvents(gtx)
 if b.clicks > 0 {
  b.clicks--
  if b.prevClicks > 0 {
   b.prevClicks--
  }
  if b.clicks > 0 {
   // Ensure timely delivery of remaining clicks.
   op.InvalidateOp{}.Add(gtx.Ops)
  }
  return true
 }
 return false
}

func (b *Button) History() []Click {
 return b.history
}
```

```
func (b *Button) Layout(gtx *layout.Context) {
 // Flush clicks from before the previous frame.
 b.clicks -= b.prevClicks
 b.prevClicks = 0
 b.processEvents(gtx)
 b.click.Add(gtx.Ops)
 for
 len(b.history) > 0 {
  c := b.history[0]
  if gtx.Now().Sub(c.Time) < 1*time.Second {
   break
  }
  copy(b.history, b.history[1:])
  b.history = b.history[:len(b.history)-1]
 }
}

func (b *Button) processEvents(gtx *layout.Context) {
 for _, e := range b.click.Events(gtx) {
  switch e.Type {
  case gesture.TypeClick:
   b.clicks++
  case gesture.TypePress:
   b.history = append(b.history, Click{
    Position: e.Position,
    Time:     gtx.Now(),
   })
  }
 }
}
graph{{SuG{SuG}SuG}SuG{SuG}SuG}
// SPDX-License-Identifier: Unlicense OR MIT

package layout

import (
 "image"

 "gioui.org/op"
 "gioui.org/unit"
)

// Constraints represent a set of acceptable ranges for
// a widget's width and height.
type Constraints struct {
 Width  Constraint
 Height Constraint
```

```
}

// Constraint is a range of acceptable sizes in a single
// dimension.
type Constraint struct {
 Min, Max int
}

// Dimensions are the resolved size and baseline for a widget.
type Dimensions struct {
 Size     image.Point
 Baseline int
}

// Axis is the Horizontal or Vertical direction.
type Axis uint8

// Alignment is the mutual alignment of a list of widgets.
type Alignment uint8

// Direction is the alignment of widgets relative to a containing
// space.
type Direction uint8

// Widget is a function scope for drawing, processing events and
// computing dimensions for a user interface element.
type Widget func()

const (
 Start Alignment = iota
 End
 Middle
 Baseline
)

const (
 NW Direction = iota
 N
 NE
 E
 SE
 S
 SW
 W
 Center
)

const
```

```
 (
 Horizontal Axis = iota
 Vertical
)

// Constrain a value to the range [Min; Max].
func (c Constraint) Constrain(v int) int {
 if v < c.Min {
  return c.Min
 } else if v > c.Max {
  return c.Max
 }
 return v
}

// Constrain a size to the Width and Height ranges.
func (c Constraints) Constrain(size image.Point) image.Point {
 return image.Point{X: c.Width.Constrain(size.X), Y: c.Height.Constrain(size.Y)}
}

// RigidConstraints returns the constraints that can only be
// satisfied by the given dimensions.
func RigidConstraints(size image.Point) Constraints {
 return Constraints{
  Width:  Constraint{Min: size.X, Max: size.X},
  Height: Constraint{Min: size.Y, Max: size.Y},
 }
}

// Inset adds space around a widget.
type Inset struct {
 Top, Right, Bottom, Left unit.Value
}

// Align aligns a widget in the available space.
type Align Direction

// Layout a widget.
func (in Inset) Layout(gtx *Context, w Widget) {
 top := gtx.Px(in.Top)
 right := gtx.Px(in.Right)
 bottom
 := gtx.Px(in.Bottom)
 left := gtx.Px(in.Left)
 mcs := gtx.Constraints
 mcs.Width.Max -= left + right
 if mcs.Width.Max < 0 {
  left = 0
```

```
 right = 0
 mcs.Width.Max = 0
}
if mcs.Width.Min > mcs.Width.Max {
 mcs.Width.Min = mcs.Width.Max
}
mcs.Height.Max -= top + bottom
if mcs.Height.Max < 0 {
 bottom = 0
 top = 0
 mcs.Height.Max = 0
}
if mcs.Height.Min > mcs.Height.Max {
 mcs.Height.Min = mcs.Height.Max
}
var stack op.StackOp
stack.Push(gtx.Ops)
op.TransformOp{}.Offset(toPointF(image.Point{X: left, Y: top})).Add(gtx.Ops)
dims := ctxLayout(gtx, mcs, w)
stack.Pop()
gtx.Dimensions = Dimensions{
 Size:     dims.Size.Add(image.Point{X: right + left, Y: top + bottom}),
 Baseline: dims.Baseline + bottom,
}
}

// UniformInset returns an Inset with a single inset applied to all
// edges.
func UniformInset(v unit.Value) Inset {
 return Inset{Top: v, Right: v, Bottom: v, Left: v}
}

// Layout a widget.
func (a Align) Layout(gtx *Context, w Widget) {
 var macro op.MacroOp
 macro.Record(gtx.Ops)
 cs
 := gtx.Constraints
 mcs := cs
 mcs.Width.Min = 0
 mcs.Height.Min = 0
 dims := ctxLayout(gtx, mcs, w)
 macro.Stop()
 sz := dims.Size
 if sz.X < cs.Width.Min {
  sz.X = cs.Width.Min
 }
 if sz.Y < cs.Height.Min {
```

```
 sz.Y = cs.Height.Min
 }
 var p image.Point
 switch Direction(a) {
 case N, S, Center:
  p.X = (sz.X - dims.Size.X) / 2
 case NE, SE, E:
  p.X = sz.X - dims.Size.X
 }
 switch Direction(a) {
 case W, Center, E:
  p.Y = (sz.Y - dims.Size.Y) / 2
 case SW, S, SE:
  p.Y = sz.Y - dims.Size.Y
 }
 var stack op.StackOp
 stack.Push(gtx.Ops)
 op.TransformOp{}.Offset(toPointF(p)).Add(gtx.Ops)
 macro.Add()
 stack.Pop()
 gtx.Dimensions = Dimensions{
  Size:     sz,
  Baseline: dims.Baseline + sz.Y - dims.Size.Y - p.Y,
 }
}

func (a Alignment) String() string {
 switch a {
 case Start:
  return "Start"
 case End:
  return "End"
 case Middle:
  return "Middle"
 case Baseline:
  return "Baseline"
 default:
  panic("unreachable")
 }
}

func (a Axis) String() string {
 switch
 a {
 case Horizontal:
  return "Horizontal"
 case Vertical:
  return "Vertical"
```

```
 default:
  panic("unreachable")
 }
}

func (d Direction) String() string {
 switch d {
 case NW:
  return "NW"
 case N:
  return "N"
 case NE:
  return "NE"
 case E:
  return "E"
 case SE:
  return "SE"
 case S:
  return "S"
 case SW:
  return "SW"
 case W:
  return "W"
 case Center:
  return "Center"
 default:
  panic("unreachable")
 }
}
graph{Subgrap{{Subgrap{Subgrap}}}}
graph{STRIC_}
graph{NODd}
graph n1{n1{n1}}
graph{{digr}}
graph{subg_{}subg_{subg_}subg_{subg_{subg_}subg_{subg_{}subg_}{}subg_}}
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// license that can be found in the LICENSE file.

// This is a translation of the FFTPACK cost functions by
// Paul N Swarztrauber, placed in the public domain at
// http://www.netlib.org/fftpack/.

package fftpack

import "math"

// Costi initializes the array work which is used in subroutine
```

```
// Cost. The prime factorization of n together with a tabulation
// of the trigonometric functions are computed and stored in work.
//
// Input parameter
//
// n       The length of the sequence to be transformed. The method
//         is most efficient when n-1 is a product of small primes.
//
// Output parameters
//
// work    A work array which must be dimensioned at least 3*n.
//         Different work arrays are required for different values
//         of n. The contents of work must not be changed between
//         calls of Cost.
//
// ifac    An integer work array of length at least
 15.
func Costi(n int, work []float64, ifac []int) {
 if len(work) < 3*n {
  panic("fourier: short work")
 }
 if len(ifac) < 15 {
  panic("fourier: short ifac")
 }
 if n < 4 {
  return
 }
 dt := math.Pi / float64(n-1)
 for k := 1; k < n/2; k++ {
  fk := float64(k)
  work[k] = 2 * math.Sin(fk*dt)
  work[n-k-1] = 2 * math.Cos(fk*dt)
 }
 Rffti(n-1, work[n:], ifac)
}

// Cost computes the Discrete Fourier Cosine Transform of an even
// sequence x(i). The transform is defined below at output parameter x.
//
// Cost is the unnormalized inverse of itself since a call of Cost
// followed by another call of Cost will multiply the input sequence
// x by 2*(n-1). The transform is defined below at output parameter x
//
// The array work which is used by subroutine Cost must be
// initialized by calling subroutine Costi(n,work).
//
// Input parameters
//
```

```
// n       The length of the sequence x. n must be greater than 1.
//         The method is most efficient when n-1 is a product of
//
  small primes.
//
// x       An array which contains the sequence to be transformed.
//
// work    A work array which must be dimensioned at least 3*n
//         in the program that calls Cost. The work array must be
//         initialized by calling subroutine Costi(n,work) and a
//         different work array must be used for each different
//         value of n. This initialization does not have to be
//         repeated so long as n remains unchanged thus subsequent
//         transforms can be obtained faster than the first.
//
// ifac    An integer work array of length at least 15.
//
// Output parameters
//
// x       for i=1,...,n
//           x(i) = x(1)+(-1)**(i-1)*x(n)
//             + the sum from k=2 to k=n-1
//               2*x(k)*cos((k-1)*(i-1)*pi/(n-1))
//
//         A call of Cost followed by another call of
//         Cost will multiply the sequence x by 2*(n-1).
//         Hence Cost is the unnormalized inverse
//         of itself.
//
// work    Contains initialization
 calculations which must not be
//         destroyed between calls of Cost.
//
// ifac    An integer work array of length at least 15.
func Cost(n int, x, work []float64, ifac []int) {
 if len(x) < n {
  panic("fourier: short sequence")
 }
 if len(work) < 3*n {
  panic("fourier: short work")
 }
 if len(ifac) < 15 {
  panic("fourier: short ifac")
 }
 if n < 2 {
  return
 }
 switch n {
```

```
 case 2:
  x[0], x[1] = x[0]+x[1], x[0]-x[1]
 case 3:
  x1p3 := x[0] + x[2]
  tx2 := 2 * x[1]
  x[1] = x[0] - x[2]
  x[0] = x1p3 + tx2
  x[2] = x1p3 - tx2
 default:
  c1 := x[0] - x[n-1]
  x[0] += x[n-1]
  for k := 1; k < n/2; k++ {
   kc := n - k - 1
   t1 := x[k] + x[kc]
   t2 := x[k] - x[kc]
   c1 += work[kc] * t2
   t2 *= work[k]
   x[k] = t1 - t2
   x[kc] = t1 + t2
  }
  if n%2 != 0 {
   x[n/2] *= 2
  }
  Rfftf(n-1, x, work[n:], ifac)
  xim2 := x[1]
  x[1] = c1
  for i := 3; i < n; i += 2 {
   xi := x[i]
   x[i] = x[i-2] - x[i-1]
   x[i-1] = xim2
   xim2 = xi
  }
  if n%2 != 0 {
   x[n-1] = xim2
  }
 }
}
graph{{nodU{nodU}{nodU}}}
graph{{GR{GR1}GR1{{GR{GR1}GR1}GR1}}GR1}
graph{{{Ed3{{Ed2}}Ed3{{Ed2}{Ed2}}Ed2}}}
graph{____________________}
graph{{e_{{e_{e_}}e_}}e_}
graph{digY{{digD}}}
graph{SUBGRAV{SUBGRAV{SUBGRAU{SUBGRAV{SUBGRAU}}SUBGRAU}}SUBGRAV}
graph{{SU2}SU2}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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```

```
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// license that can be found in the LICENSE file.

package unit

import (
 "fmt"
 "testing"
)

func TestForceFormat(t *testing.T) {
 for _, test := range []struct {
  value  Force
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 N"},
  {1.23456789, "%.1v", "1 N"},
  {1.23456789, "%20.1v", "                 1 N"},
  {1.23456789, "%20v", "        1.23456789 N"},
  {1.23456789, "%1v", "1.23456789 N"},
  {1.23456789, "%#v", "unit.Force(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Force=1.23456789 N)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
graph<<=><=>>{{<<=><=>>}<<=><=>>}
digraph{Et Et{}Et->Et Et->Et Et{}Et->Et Et}
graph{{DIGRC{DIGRB}DIGRC{DIGRB}DIGRC DIGRB}{DIGRB}{DIGRC{DIGRB}}}
graph{{{{S{{{S}}S}}}{{{{S}}S}}{S{{{S}}S}}{}{S{{S}}S}}{S{{}S}}{S{{{}{{{{S}}S}}{S{{{S}}S}}{}{S
{{S}}S}}{S{{}S}}{S{{{}}{S{{{}}S}}S{{{S}}}}}{{{}}{}{{{}}}}{{}S{{}}}}{{{{}}}}{}{S}}{{{{}}S}}{{{}}}
}}{{{}}{}{{{}}}}{{{}S{{}}}}{{{{}}}{}{{{}}}}{{{}}}{{{{}}}}{{{{}}}}}{{{{}}}}}{}}}
digraph {edu}
graph{strih{strih{strii}}}
// Code generated by "go generate gonum.org/v1/gonum/blas; DO NOT EDIT.

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package blas32

import "gonum.org/v1/gonum/blas"
```

```
// SymmetricCols represents a matrix using the conventional column-major storage scheme.
type SymmetricCols Symmetric

// From fills the receiver with elements from a. The receiver
// must have the same dimensions and uplo as a and have adequate
// backing data storage.
func (t SymmetricCols) From(a Symmetric) {
 if t.N != a.N {
  panic("blas32: mismatched dimension")
 }
 if t.Uplo != a.Uplo {
  panic("blas32: mismatched BLAS uplo")
 }
 switch a.Uplo {
 default:
  panic("blas32: bad BLAS uplo")
 case blas.Upper:
  for i := 0; i < a.N; i++ {
   for j := i; j < a.N; j++ {
    t.Data[i+j*t.Stride] = a.Data[i*a.Stride+j]
   }
  }
 case blas.Lower:
  for i := 0; i < a.N; i++ {
   for j := 0; j <= i; j++ {
    t.Data[i+j*t.Stride]
 = a.Data[i*a.Stride+j]
   }
  }
 }
}

// From fills the receiver with elements from a. The receiver
// must have the same dimensions and uplo as a and have adequate
// backing data storage.
func (t Symmetric) From(a SymmetricCols) {
 if t.N != a.N {
  panic("blas32: mismatched dimension")
 }
 if t.Uplo != a.Uplo {
  panic("blas32: mismatched BLAS uplo")
 }
 switch a.Uplo {
 default:
  panic("blas32: bad BLAS uplo")
 case blas.Upper:
  for i := 0; i < a.N; i++ {
   for j := i; j < a.N; j++ {
```

```
    t.Data[i*t.Stride+j] = a.Data[i+j*a.Stride]
   }
  }
 case blas.Lower:
  for i := 0; i < a.N; i++ {
   for j := 0; j <= i; j++ {
    t.Data[i*t.Stride+j] = a.Data[i+j*a.Stride]
   }
  }
 }
}

// SymmetricBandCols represents a symmetric matrix using the band column-major storage scheme.
type SymmetricBandCols SymmetricBand

// From fills the receiver with elements from a. The receiver
// must have the same dimensions, bandwidth and uplo as a and
// have adequate backing data storage.
func
 (t SymmetricBandCols) From(a SymmetricBand) {
 if t.N != a.N {
  panic("blas32: mismatched dimension")
 }
 if t.K != a.K {
  panic("blas32: mismatched bandwidth")
 }
 if a.Stride < a.K+1 {
  panic("blas32: short stride for source")
 }
 if t.Stride < t.K+1 {
  panic("blas32: short stride for destination")
 }
 if t.Uplo != a.Uplo {
  panic("blas32: mismatched BLAS uplo")
 }
 dst := BandCols{
  Rows: t.N, Cols: t.N,
  Stride: t.Stride,
  Data:   t.Data,
 }
 src := Band{
  Rows: a.N, Cols: a.N,
  Stride: a.Stride,
  Data:   a.Data,
 }
 switch a.Uplo {
 default:
  panic("blas32: bad BLAS uplo")
```

```
 case blas.Upper:
  dst.KU = t.K
  src.KU = a.K
 case blas.Lower:
  dst.KL = t.K
  src.KL = a.K
 }
 dst.From(src)
}

// From fills the receiver with elements from a. The receiver
// must have the same dimensions, bandwidth and uplo as a and
// have adequate backing data storage.
func (t SymmetricBand) From(a SymmetricBandCols) {
 if t.N != a.N {
  panic("blas32: mismatched dimension")
 }
 if
 t.K != a.K {
  panic("blas32: mismatched bandwidth")
 }
 if a.Stride < a.K+1 {
  panic("blas32: short stride for source")
 }
 if t.Stride < t.K+1 {
  panic("blas32: short stride for destination")
 }
 if t.Uplo != a.Uplo {
  panic("blas32: mismatched BLAS uplo")
 }
 dst := Band{
  Rows: t.N, Cols: t.N,
  Stride: t.Stride,
  Data:   t.Data,
 }
 src := BandCols{
  Rows: a.N, Cols: a.N,
  Stride: a.Stride,
  Data:   a.Data,
 }
 switch a.Uplo {
 default:
  panic("blas32: bad BLAS uplo")
 case blas.Upper:
  dst.KU = t.K
  src.KU = a.K
 case blas.Lower:
  dst.KL = t.K
```

```
  src.KL = a.K
 }
 dst.From(src)
}
graph{no}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

package unit

import (
 "errors"
 "fmt"
 "math"
 "unicode/utf8"
)

// Conductance represents an electrical conductance in Siemens.
type Conductance float64

const Siemens Conductance = 1

// Unit converts the Conductance to a *Unit
func (co Conductance) Unit() *Unit {
 return New(float64(co), Dimensions{
  CurrentDim: 2,
  LengthDim:  -2,
  MassDim:    -1,
  TimeDim:    3,
 })
}

// Conductance allows Conductance to implement a Conductancer interface
func (co Conductance) Conductance() Conductance {
 return co
}

// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (co *Conductance) From(u Uniter) error {
 if !DimensionsMatch(u, Siemens) {
  *co = Conductance(math.NaN())
  return errors.New("Dimension
 mismatch")
 }
```

```
 *co = Conductance(u.Unit().Value())
 return nil
}

func (co Conductance) Format(fs fmt.State, c rune) {
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", co, float64(co))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " S"
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(co))
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(co))
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(co))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(co))
  }
  fmt.Fprint(fs, unit)
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g S)", c, co, float64(co))
 }
}
graph{NO3{NO5{NO5}}}
graph{NOZ{{NOZ{NOZ{NOZ}}}NOG{NOZ}}}
graph{{D{D}}}
package widget

import (
 "gioui.org/gesture"
 "gioui.org/layout"
)

type Enum struct {
 clicks []gesture.Click
 values []string
 value  string
}

func index(vs []string, t string) int {
```

```
 for i, v := range vs {
  if v == t {
   return i
  }
 }
 return -1
}

// Value processes events and returns the last selected value, or
// the empty string.
func (e *Enum) Value(gtx *layout.Context) string {
 for i := range e.clicks {
  for _, ev := range e.clicks[i].Events(gtx) {
   switch ev.Type {
   case gesture.TypeClick:
    e.value = e.values[i]
   }
  }
 }
 return e.value
}

// Layout adds the event handler for key.
func (rg *Enum) Layout(gtx *layout.Context, key string) {
 if index(rg.values, key) == -1 {
  rg.values = append(rg.values, key)
  rg.clicks = append(rg.clicks, gesture.Click{})
  rg.clicks[len(rg.clicks)-1].Add(gtx.Ops)
 } else {
  idx := index(rg.values, key)
  rg.clicks[idx].Add(gtx.Ops)
 }
}

func (rg *Enum) SetValue(value string) {
 rg.value = value
}
graph{<<aua>>}
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package gonum

import "gonum.org/v1/gonum/blas"

// Dormhr multiplies an mn general matrix C with an nqnq orthogonal matrix Q
//  Q * C   if side == blas.Left  and trans == blas.NoTrans,
```

```
//  Q * C  if side == blas.Left  and trans == blas.Trans,
//  C * Q   if side == blas.Right and trans == blas.NoTrans,
//  C * Q  if side == blas.Right and trans == blas.Trans,
// where nq == m if side == blas.Left and nq == n if side == blas.Right.
//
// Q is defined implicitly as the product of ihi-ilo elementary reflectors, as
// returned by Dgehrd:
//  Q = H_{ilo} H_{ilo+1} ... H_{ihi-1}.
// Q is equal to the identity matrix except in the submatrix
// Q[ilo+1:ihi+1,ilo+1:ihi+1].
//
// ilo and ihi must have the same values as in the previous call of Dgehrd. It
// must hold that
//  0 <= ilo <= ihi < m   if m > 0 and side == blas.Left,
//  ilo
 = 0 and ihi = -1  if m = 0 and side == blas.Left,
//  0 <= ilo <= ihi < n   if n > 0 and side == blas.Right,
//  ilo = 0 and ihi = -1  if n = 0 and side == blas.Right.
//
// a and lda represent an mm matrix if side == blas.Left and an nn matrix if
// side == blas.Right. The matrix contains vectors which define the elementary
// reflectors, as returned by Dgehrd.
//
// tau contains the scalar factors of the elementary reflectors, as returned by
// Dgehrd. tau must have length m-1 if side == blas.Left and n-1 if side ==
// blas.Right.
//
// c and ldc represent the mn matrix C. On return, c is overwritten by the
// product with Q.
//
// work must have length at least max(1,lwork), and lwork must be at least
// max(1,n), if side == blas.Left, and max(1,m), if side == blas.Right. For
// optimum performance lwork should be at least n*nb if side == blas.Left and
// m*nb if side == blas.Right, where nb is the optimal block size. On return,
// work[0] will contain the optimal value of lwork.
//
//
 If lwork == -1, instead of performing Dormhr, only the optimal value of lwork
// will be stored in work[0].
//
// If any requirement on input sizes is not met, Dormhr will panic.
//
// Dormhr is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dormhr(side blas.Side, trans blas.Transpose, m, n, ilo, ihi int, a []float64, lda int, tau, c
[]float64, ldc int, work []float64, lwork int) {
 nq := n // The order of Q.
 nw := m // The minimum length of work.
 if side == blas.Left {
```

```
 nq = m
 nw = n
}
switch {
case side != blas.Left && side != blas.Right:
 panic(badSide)
case trans != blas.NoTrans && trans != blas.Trans:
 panic(badTrans)
case m < 0:
 panic(mLT0)
case n < 0:
 panic(nLT0)
case ilo < 0 || max(1, nq) <= ilo:
 panic(badIlo)
case ihi < min(ilo, nq-1) || nq <= ihi:
 panic(badIhi)
case lda < max(1, nq):
 panic(badLdA)
case lwork < max(1, nw) && lwork != -1:
 panic(badLWork)
case len(work) < max(1, lwork):
 panic(shortWork)
}

//
Quick return if possible.
if m == 0 || n == 0 {
 work[0] = 1
 return
}

nh := ihi - ilo
var nb int
if side == blas.Left {
 opts := "LN"
 if trans == blas.Trans {
  opts = "LT"
 }
 nb = impl.Ilaenv(1, "DORMQR", opts, nh, n, nh, -1)
} else {
 opts := "RN"
 if trans == blas.Trans {
  opts = "RT"
 }
 nb = impl.Ilaenv(1, "DORMQR", opts, m, nh, nh, -1)
}
lwkopt := max(1, nw) * nb
if lwork == -1 {
```

```
 work[0] = float64(lwkopt)
 return
}

if nh == 0 {
 work[0] = 1
 return
}

switch {
case len(a) < (nq-1)*lda+nq:
 panic(shortA)
case len(c) < (m-1)*ldc+n:
 panic(shortC)
case len(tau) != nq-1:
 panic(badLenTau)
}

if side == blas.Left {
 impl.Dormqr(side, trans, nh, n, nh, a[(ilo+1)*lda+ilo:], lda,
  tau[ilo:ihi], c[(ilo+1)*ldc:], ldc, work, lwork)
} else {
 impl.Dormqr(side, trans, m, nh, nh, a[(ilo+1)*lda+ilo:], lda,
  tau[ilo:ihi], c[ilo+1:], ldc, work, lwork)
}
work[0] = float64(lwkopt)
}
graph{Subgraphe}
graph{Digraph_}
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package mathext

import "gonum.org/v1/gonum/mathext/internal/gonum"

// Beta returns the value of the complete beta function B(a, b). It is defined as
//  (a)(b) / (a+b)
// Special cases are:
//  B(a,b) returns NaN if a or b is Inf
//  B(a,b) returns NaN if a and b are 0
//  B(a,b) returns NaN if a or b is NaN
//  B(a,b) returns NaN if a or b is < 0
//  B(a,b) returns +Inf if a xor b is 0.
//
// See http://mathworld.wolfram.com/BetaFunction.html for more detailed informations.
func Beta(a, b float64) float64 {
```

```
 return gonum.Beta(a, b)
}

// Lbeta returns the natural logarithm of the complete beta function B(a,b).
// Lbeta is defined as:
//  Ln((a)(b)/(a+b))
// Special cases are:
//  Lbeta(a,b) returns NaN if a or b is Inf
//  Lbeta(a,b) returns NaN if a and b are 0
//  Lbeta(a,b) returns NaN if a or b is NaN
//  Lbeta(a,b) returns
 NaN if a or b is < 0
//  Lbeta(a,b) returns +Inf if a xor b is 0.
func Lbeta(a, b float64) float64 {
 return gonum.Lbeta(a, b)
}
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package gonum

import (
 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
)

// Dpotrf computes the Cholesky decomposition of the symmetric positive definite
// matrix a. If ul == blas.Upper, then a is stored as an upper-triangular matrix,
// and a = U U is stored in place into a. If ul == blas.Lower, then a = L L
// is computed and stored in-place into a. If a is not positive definite, false
// is returned. This is the blocked version of the algorithm.
func (impl Implementation) Dpotrf(ul blas.Uplo, n int, a []float64, lda int) (ok bool) {
 switch {
 case ul != blas.Upper && ul != blas.Lower:
  panic(badUplo)
 case n < 0:
  panic(nLT0)
 case lda < max(1, n):
  panic(badLdA)
 }

 // Quick return if possible.
 if n == 0 {
  return true
 }

 if len(a) < (n-1)*lda+n {
```

```
 panic(shortA)
}

nb := impl.Ilaenv(1, "DPOTRF",
string(ul), n, -1, -1, -1)
if nb <= 1 || n <= nb {
 return impl.Dpotf2(ul, n, a, lda)
}
bi := blas64.Implementation()
if ul == blas.Upper {
 for j := 0; j < n; j += nb {
  jb := min(nb, n-j)
  bi.Dsyrk(blas.Upper, blas.Trans, jb, j,
   -1, a[j:], lda,
   1, a[j*lda+j:], lda)
  ok = impl.Dpotf2(blas.Upper, jb, a[j*lda+j:], lda)
  if !ok {
   return ok
  }
  if j+jb < n {
   bi.Dgemm(blas.Trans, blas.NoTrans, jb, n-j-jb, j,
    -1, a[j:], lda, a[j+jb:], lda,
    1, a[j*lda+j+jb:], lda)
   bi.Dtrsm(blas.Left, blas.Upper, blas.Trans, blas.NonUnit, jb, n-j-jb,
    1, a[j*lda+j:], lda,
    a[j*lda+j+jb:], lda)
  }
 }
 return true
}
for j := 0; j < n; j += nb {
 jb := min(nb, n-j)
 bi.Dsyrk(blas.Lower, blas.NoTrans, jb, j,
  -1, a[j*lda:], lda,
  1, a[j*lda+j:], lda)
 ok := impl.Dpotf2(blas.Lower, jb, a[j*lda+j:], lda)
 if !ok {
  return ok
 }
 if j+jb < n {
  bi.Dgemm(blas.NoTrans, blas.Trans, n-j-jb, jb, j,
   -1, a[(j+jb)*lda:], lda, a[j*lda:], lda,
   1,
a[(j+jb)*lda+j:], lda)
  bi.Dtrsm(blas.Right, blas.Lower, blas.Trans, blas.NonUnit, n-j-jb, jb,
   1, a[j*lda+j:], lda,
   a[(j+jb)*lda+j:], lda)
 }
```

```
 }
 return true
}
graph{{{grap{}grap{{grap}grap{}grap{{grap}}}}}}
Graph{{{{{{{{{subgra}{subgra}}subgra}}}subgra}}subgra}}{{{{{{{{{subgra}{}}subgra}}}subgra}}subgra}}{
{{{subgra}}subgra}}{{{{{{}}}}subgra}}}
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package testlapack

import (
 "math"
 "testing"
)

type Dlas2er interface {
 Dlas2(f, g, h float64) (min, max float64)
}

func Dlas2Test(t *testing.T, impl Dlas2er) {
 for i, test := range []struct {
  f, g, h, ssmin, ssmax float64
 }{
  // Singular values computed from Octave.
  {10, 30, 12, 3.567778859365365, 33.634371616111189},
  {10, 30, -12, 3.567778859365365, 33.634371616111189},
  {2, 30, -12, 0.741557056404952, 32.364333658088754},
  {-2, 5, 12, 1.842864429909778, 13.023204317408728},
 } {
  ssmin, ssmax := impl.Dlas2(test.f, test.g, test.h)
  if math.Abs(ssmin-test.ssmin) > 1e-12 {
   t.Errorf("Case %d, minimal singular value mismatch. Want %v, got %v", i, test.ssmin, ssmin)
  }
  if math.Abs(ssmax-test.ssmax) > 1e-12 {
   t.Errorf("Case %d, minimal singular value mismatch. Want %v, got %v", i, test.ssmin, ssmin)
  }
 }
}
graph{<>{<><><>}<><>}
graph{{{{Grapc}}Grapc}}
graph{{{Ed}Ed}}
// SPDX-License-Identifier: Unlicense OR MIT

/*
Package event contains the types for event handling.
```

The Queue interface is the protocol for receiving external events.

For example:

```
 var queue event.Queue = ...

 for _, e := range queue.Events(h) {
  switch e.(type) {
   ...
  }
 }
```

In general, handlers must be declared before events become
available. Other packages such as pointer and key provide
the means for declaring handlers for specific event types.

The following example declares a handler ready for key input:

```
 import gioui.org/io/key

 ops := new(op.Ops)
 var h *Handler = ...
 key.InputOp{Key: h}.Add(ops)

*/
package event

// Queue maps an event handler key to the events
// available to the handler.
type Queue interface {
 // Events returns the available events for a
 // Key.
 Events(k Key) []Event
}

// Key is the stable identifier for an event handler.
// For a handler h, the key is typically &h.
type Key interface{}

// Event is the marker interface for events.
type Event
 interface {
 ImplementsEvent()
}
//**
source: https://github.com/apache/trafficcontrol/blob/master/LICENSE
**//
{{Types "Apache-2.0 BSD-2-Clause BSD-3-Clause MIT"}}
```

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))
Refer to the above license for the full text.
graph{{{subGra{{subGra}}subGra}}}
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// Package traverse provides basic graph traversal primitives.
package traverse // import "gonum.org/v1/gonum/graph/traverse"
digraph {{k9h}{k""}{k}{k}{k""""}->y->e->h->h->h->h->h->""->v9h9h->c->h""->h->h->h->h->h->h->X""->X->""""->l->""->l[e=s]4->v9h->h->c->l->h->l}
graph{diGs{diGt}}
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package testlapack

import (
 "fmt"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/floats"
)

type Dormqrer interface {
 Dorm2rer
 Dormqr(side blas.Side, trans blas.Transpose, m, n, k int, a []float64, lda int, tau, c []float64, ldc int, work []float64, lwork int)
}

```
func DormqrTest(t *testing.T, impl Dormqrer) {
 rnd := rand.New(rand.NewSource(1))
 for _, side := range []blas.Side{blas.Left, blas.Right} {
  for _, trans := range []blas.Transpose{blas.NoTrans, blas.Trans} {
   for _, test := range []struct {
    common, adim, cdim, lda, ldc int
   }{
    {6, 7, 8, 0, 0},
    {6, 8, 7, 0, 0},
    {7, 6, 8, 0, 0},
    {7, 8, 6, 0, 0},
    {8, 6, 7, 0, 0},
    {8, 7, 6, 0, 0},
    {100, 200, 300, 0, 0},
    {100, 300, 200, 0, 0},
    {200, 100, 300, 0, 0},
    {200, 300, 100, 0, 0},
    {300,
100, 200, 0, 0},
    {300, 200, 100, 0, 0},
    {100, 200, 300, 400, 500},
    {100, 300, 200, 400, 500},
    {200, 100, 300, 400, 500},
    {200, 300, 100, 400, 500},
    {300, 100, 200, 400, 500},
    {300, 200, 100, 400, 500},
    {100, 200, 300, 500, 400},
    {100, 300, 200, 500, 400},
    {200, 100, 300, 500, 400},
    {200, 300, 100, 500, 400},
    {300, 100, 200, 500, 400},
    {300, 200, 100, 500, 400},
   } {
    var ma, na, mc, nc int
    if side == blas.Left {
     ma = test.common
     na = test.adim
     mc = test.common
     nc = test.cdim
    } else {
     ma = test.common
     na = test.adim
     mc = test.cdim
     nc = test.common
    }
    // Generate a random matrix
    lda := test.lda
    if lda == 0 {
```

```
 lda = na
}
a := make([]float64, ma*lda)
for i := range a {
 a[i] = rnd.Float64()
}
// Compute random C matrix
ldc := test.ldc
if ldc == 0 {
 ldc = nc
}
c := make([]float64, mc*ldc)
for i := range c {
 c[i] =
rnd.Float64()
}

// Compute QR
k := min(ma, na)
tau := make([]float64, k)
work := make([]float64, 1)
impl.Dgeqrf(ma, na, a, lda, tau, work, -1)
work = make([]float64, int(work[0]))
impl.Dgeqrf(ma, na, a, lda, tau, work, len(work))

cCopy := make([]float64, len(c))
copy(cCopy, c)
ans := make([]float64, len(c))
copy(ans, cCopy)

if side == blas.Left {
 work = make([]float64, nc)
} else {
 work = make([]float64, mc)
}
impl.Dorm2r(side, trans, mc, nc, k, a, lda, tau, ans, ldc, work)

// Make sure Dorm2r and Dormqr match with small work
for i := range work {
 work[i] = rnd.Float64()
}
copy(c, cCopy)
impl.Dormqr(side, trans, mc, nc, k, a, lda, tau, c, ldc, work, len(work))
if !floats.EqualApprox(c, ans, 1e-12) {
 t.Errorf("Dormqr and Dorm2r mismatch for small work")
}

// Try with the optimum amount of work
```

```
    copy(c, cCopy)
    impl.Dormqr(side, trans, mc, nc, k, a, lda, tau, c,
 ldc, work, -1)
    work = make([]float64, int(work[0]))
    for i := range work {
     work[i] = rnd.Float64()
    }
    impl.Dormqr(side, trans, mc, nc, k, a, lda, tau, c, ldc, work, len(work))
    if !floats.EqualApprox(c, ans, 1e-12) {
     t.Errorf("Dormqr and Dorm2r mismatch for full work")
     fmt.Println("ccopy")
     for i := 0; i < mc; i++ {
      fmt.Println(cCopy[i*ldc : (i+1)*ldc])
     }
     fmt.Println("ans =")
     for i := 0; i < mc; i++ {
      fmt.Println(ans[i*ldc : (i+1)*ldc])
     }
     fmt.Println("c =")
     for i := 0; i < mc; i++ {
      fmt.Println(c[i*ldc : (i+1)*ldc])
     }
    }

    // Try with amount of work that is less than
    // optimal but still long enough to use the
    // blocked code.
    copy(c, cCopy)
    if side == blas.Left {
     work = make([]float64, 3*nc)
    } else {
     work = make([]float64, 3*mc)
    }
    impl.Dormqr(side, trans, mc, nc, k, a, lda, tau, c, ldc, work, len(work))
    if !floats.EqualApprox(c, ans, 1e-12) {
     t.Errorf("Dormqr
 and Dorm2r mismatch for medium work")
    }
   }
  }
 }
}
graph{{diGrapl{{{{{diGrapl{{}{}diGrapp}}}}{{diGrapl}{diGrapl}{}diGrapp}}}}{{diGrapl}{diGrapp}diGrapp}
}
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```

```
package testlapack

import (
 "fmt"
 "math"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/floats"
 "gonum.org/v1/gonum/lapack"
)

type Dlantrer interface {
 Dlanger
 Dlantr(norm lapack.MatrixNorm, uplo blas.Uplo, diag blas.Diag, m, n int, a []float64, lda int, work []float64)
float64
}

func DlantrTest(t *testing.T, impl Dlantrer) {
 rnd := rand.New(rand.NewSource(1))
 for _, m := range []int{0, 1, 2, 3, 4, 5, 10} {
  for _, n := range []int{0, 1, 2, 3, 4, 5, 10} {
   for _, uplo := range []blas.Uplo{blas.Lower, blas.Upper} {
    if uplo == blas.Upper && m > n {
     continue
    }
    if uplo == blas.Lower && n > m {
     continue
    }
    for _, diag := range []blas.Diag{blas.NonUnit, blas.Unit} {
     for _, lda := range []int{max(1, n), n + 3} {
      dlantrTest(t, impl, rnd, uplo,
 diag, m, n, lda)
     }
    }
   }
  }
 }
}

func dlantrTest(t *testing.T, impl Dlantrer, rnd *rand.Rand, uplo blas.Uplo, diag blas.Diag, m, n, lda int) {
 const tol = 1e-14

 // Generate a random triangular matrix. If the matrix has unit diagonal,
 // don't set the diagonal elements to 1.
 a := make([]float64, max(0, (m-1)*lda+n))
```

```
for i := range a {
 a[i] = rnd.NormFloat64()
}
rowsum := make([]float64, m)
colsum := make([]float64, n)
var frobWant, maxabsWant float64
if diag == blas.Unit {
 // Account for the unit diagonal.
 for i := 0; i < min(m, n); i++ {
  rowsum[i] = 1
  colsum[i] = 1
 }
 frobWant = float64(min(m, n))
 if min(m, n) > 0 {
  maxabsWant = 1
 }
}
if uplo == blas.Upper {
 for i := 0; i < min(m, n); i++ {
  start := i
  if diag == blas.Unit {
   start = i + 1
  }
  for j := start; j < n; j++ {
   aij := 2*rnd.Float64() - 1
   a[i*lda+j] = aij
   rowsum[i] += math.Abs(aij)
   colsum[j] += math.Abs(aij)
   maxabsWant = math.Max(maxabsWant, math.Abs(aij))
   frobWant
+= aij * aij
  }
 }
} else {
 for i := 0; i < m; i++ {
  end := i
  if diag == blas.Unit {
   end = i - 1
  }
  for j := 0; j <= min(end, n-1); j++ {
   aij := 2*rnd.Float64() - 1
   a[i*lda+j] = aij
   rowsum[i] += math.Abs(aij)
   colsum[j] += math.Abs(aij)
   maxabsWant = math.Max(maxabsWant, math.Abs(aij))
   frobWant += aij * aij
  }
 }
```

```
 }
 frobWant = math.Sqrt(frobWant)
 var maxcolsumWant, maxrowsumWant float64
 if n > 0 {
  maxcolsumWant = floats.Max(colsum)
 }
 if m > 0 {
  maxrowsumWant = floats.Max(rowsum)
 }

 aCopy := make([]float64, len(a))
 copy(aCopy, a)

 for _, norm := range []lapack.MatrixNorm{lapack.MaxAbs, lapack.MaxColumnSum, lapack.MaxRowSum,
lapack.Frobenius} {
  name := fmt.Sprintf("norm=%v,uplo=%v,diag=%v,m=%v,n=%v,lda=%v", string(norm), string(uplo), string(diag),
m, n, lda)

  var work []float64
  if norm == lapack.MaxColumnSum {
   work = make([]float64, n)
  }
  normGot := impl.Dlantr(norm, uplo, diag, m, n, a, lda,
 work)

  if !floats.Equal(a, aCopy) {
   t.Fatalf("%v: unexpected modification of a", name)
  }

  if norm == lapack.MaxAbs {
   // MaxAbs norm involves no floating-point computation,
   // so we expect exact equality here.
   if normGot != maxabsWant {
    t.Errorf("%v: unexpected result; got %v, want %v", name, normGot, maxabsWant)
   }
   continue
  }

  var normWant float64
  switch norm {
  case lapack.MaxColumnSum:
   normWant = maxcolsumWant
  case lapack.MaxRowSum:
   normWant = maxrowsumWant
  case lapack.Frobenius:
   normWant = frobWant
  }
  if math.Abs(normGot-normWant) >= tol {
```

```
   t.Errorf("%v: unexpected result; got %v, want %v", name, normGot, normWant)
  }
 }
}
graph{{diGrp{{{diGrp{diGrp}}}diGrp}}}
Graph{{diGra}{diGra}{diGra}diGra{{diGra}}{diGra}{}{diGra}{diGra}{diGra}}
graph{{{GRa{GRi}GRi}{GRa{GRa{{GRi}{GRa{GRi}}}}}}GRa}
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package quat

import "math"

// Exp returns e**q, the base-e exponential of q.
func Exp(q Number) Number {
 w, uv := split(q)
 if uv == zero {
  return lift(math.Exp(w))
 }
 v := Abs(uv)
 e := math.Exp(w)
 s, c := math.Sincos(v)
 return join(e*c, Scale(e*s/v, uv))
}

// Log returns the natural logarithm of q.
func Log(q Number) Number {
 w, uv := split(q)
 if uv == zero {
  return lift(math.Log(w))
 }
 v := Abs(uv)
 return join(math.Log(Abs(q)), Scale(math.Atan2(v, w)/v, uv))
}

// Pow return q**r, the base-q exponential of r.
// For generalized compatibility with math.Pow:
//      Pow(0, 0) returns 1+0i+0j+0k
//      Pow(0, c) for real(c)<0 returns Inf+0i+0j+0k if imag(c),
 jmag(c), kmag(c) are zero,
//          otherwise Inf+Inf i+Inf j+Inf k.
func Pow(q, r Number) Number {
```

```
 if q == zero {
  w, uv := split(r)
  switch {
  case w == 0:
   return Number{Real: 1}
  case w < 0:
   if uv == zero {
    return Number{Real: math.Inf(1)}
   }
   return Inf()
  case w > 0:
   return zero
  }
 }
 return Exp(Mul(Log(q), r))
}

// Sqrt returns the square root of q.
func Sqrt(q Number) Number {
 if q == zero {
  return zero
 }
 return Pow(q, Number{Real: 0.5})
}
digraph{S_}
graph{{stri5{stri1{{stri5}}}stri1}}
graph{{{{StrO}StrK{StrO}StrK}}StrK}
graph{{{diGrapS}}}
graph{Stt{Stt}Stt{Stt{Stt{Stt{Stt}{Stt}}Stt}{Stt}}}
graph{Edg}
graph{{{{{{{edge5}}}edge5}}edge5}}}
Graph{{Graph[]Graph[]}Graph[]{Graph[]Graph[]}Graph[]}
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// Package gonum is a pure-go implementation of the LAPACK API. The LAPACK API defines
// a set of algorithms for advanced matrix operations.
//
// The function definitions and implementations follow that of the netlib reference
// implementation. See http://www.netlib.org/lapack/explore-html/ for more
// information, and http://www.netlib.org/lapack/explore-html/d4/de1/_l_i_c_e_n_s_e_source.html
// for more license information.
//
// Slice function arguments frequently represent vectors and matrices. The data
// layout is identical to that found in https://godoc.org/gonum.org/v1/gonum/blas/gonum.
//
// Most LAPACK functions are built on top the routines defined in the BLAS API,
```

// and as such the computation time for many LAPACK functions is
// dominated by BLAS calls. Here, BLAS is accessed through the
// blas64 package (https://godoc.org/golang.org/v1/gonum/blas/blas64).
 In particular,
// this implies that an external BLAS library will be used if it is
// registered in blas64.
//
// The full LAPACK capability has not been implemented at present. The full
// API is very large, containing approximately 200 functions for double precision
// alone. Future additions will be focused on supporting the gonum matrix
// package (https://godoc.org/github.com/gonum/matrix/mat64), though pull requests
// with implementations and tests for LAPACK function are encouraged.
package gonum // import "gonum.org/v1/gonum/lapack/gonum"
digraph{{w{{w:sw->w:sw->w:sw}w:sw->w:sw->w:sw}sw->w:sw->w:sw}w:sw->w:sw->w:sw}
graph{{DIGRAP3}}

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graph{{DIG_}}
graph{edg_{edgd{}edgd}}
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/*

Package unit implements device independent units and values.

```
A Value is a value with a Unit attached.

Device independent pixel, or dp, is the unit for sizes independent of
the underlying display device.

Scaled pixels, or sp, is the unit for text sizes. An sp is like dp with
text scaling applied.

Finally, pixels, or px, is the unit for display dependent pixels. Their
size vary between platforms and displays.

To maintain a constant visual size across platforms and displays, always
use dps or sps to define user interfaces. Only use pixels for derived
values.

*/
package unit

import "fmt"

// Value is a value with a unit.
type Value struct {
 V float32
 U Unit
}

// Unit represents a unit for a Value.
type Unit uint8

// Converter converts Values to pixels.
type Converter interface {
 Px(v Value) int
}

const (
 // UnitPx represent device pixels in the resolution of
 // the underlying display.
 UnitPx Unit = iota
 // UnitDp represents
 device independent pixels. 1 dp will
 // have the same apparent size across platforms and
 // display resolutions.
 UnitDp
 // UnitSp is like UnitDp but for font sizes.
 UnitSp
)
```

```
// Px returns the Value for v device pixels.
func Px(v float32) Value {
 return Value{V: v, U: UnitPx}
}

// Px returns the Value for v device independent
// pixels.
func Dp(v float32) Value {
 return Value{V: v, U: UnitDp}
}

// Sp returns the Value for v scaled dps.
func Sp(v float32) Value {
 return Value{V: v, U: UnitSp}
}

// Scale returns the value scaled by s.
func (v Value) Scale(s float32) Value {
 v.V *= s
 return v
}

func (v Value) String() string {
 return fmt.Sprintf("%g%s", v.V, v.U)
}

func (u Unit) String() string {
 switch u {
 case UnitPx:
  return "px"
 case UnitDp:
  return "dp"
 case UnitSp:
  return "sp"
 default:
  panic("unknown unit")
 }
}

// Add a list of Values.
func Add(c Converter, values ...Value) Value {
 var sum Value
 for _, v := range values {
  sum, v = compatible(c, sum,
 v)
  sum.V += v.V
 }
 return sum
```

```
}

// Max returns the maximum of a list of Values.
func Max(c Converter, values ...Value) Value {
 var max Value
 for _, v := range values {
  max, v = compatible(c, max, v)
  if v.V > max.V {
   max.V = v.V
  }
 }
 return max
}

func compatible(c Converter, v1, v2 Value) (Value, Value) {
 if v1.U == v2.U {
  return v1, v2
 }
 if v1.V == 0 {
  v1.U = v2.U
  return v1, v2
 }
 if v2.V == 0 {
  v2.U = v1.U
  return v1, v2
 }
 return Px(float32(c.Px(v1))), Px(float32(c.Px(v2)))
}
// SPDX-License-Identifier: Unlicense OR MIT

package material

import (
 "image/color"

 "gioui.org/layout"
 "gioui.org/op"
 "gioui.org/op/paint"
 "gioui.org/text"
 "gioui.org/widget"
)

type Editor struct {
 Font text.Font
 // Color is the text color.
 Color color.RGBA
 // Hint contains the text displayed when the editor is empty.
 Hint string
```

```
 // HintColor is the color of hint text.
 HintColor color.RGBA

 shaper *text.Shaper
}

func (t *Theme) Editor(hint string) Editor {
 return Editor{
  Font: text.Font{
   Size: t.TextSize,
  },
  Color:     t.Color.Text,
  shaper:    t.Shaper,
  Hint:      hint,
  HintColor: t.Color.Hint,
 }
}

func (e Editor) Layout(gtx *layout.Context, editor *widget.Editor) {
 var stack op.StackOp
 stack.Push(gtx.Ops)
 var macro op.MacroOp
 macro.Record(gtx.Ops)
 paint.ColorOp{Color: e.HintColor}.Add(gtx.Ops)
 tl := widget.Label{Alignment: editor.Alignment}
 tl.Layout(gtx, e.shaper, e.Font, e.Hint)
 macro.Stop()
 if w := gtx.Dimensions.Size.X; gtx.Constraints.Width.Min
 < w {
  gtx.Constraints.Width.Min = w
 }
 if h := gtx.Dimensions.Size.Y; gtx.Constraints.Height.Min < h {
  gtx.Constraints.Height.Min = h
 }
 editor.Layout(gtx, e.shaper, e.Font)
 if editor.Len() > 0 {
  paint.ColorOp{Color: e.Color}.Add(gtx.Ops)
  editor.PaintText(gtx)
 } else {
  macro.Add()
 }
 paint.ColorOp{Color: e.Color}.Add(gtx.Ops)
 editor.PaintCaret(gtx)
 stack.Pop()
}
graph{<<NNN>>}
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```

```
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package testblas

import (
 "testing"

 "gonum.org/v1/gonum/blas"
)

type Dsyrer interface {
 Dsyr(ul blas.Uplo, n int, alpha float64, x []float64, incX int, a []float64, lda int)
}

func DsyrTest(t *testing.T, blasser Dsyrer) {
 for i, test := range []struct {
  ul    blas.Uplo
  n     int
  a     [][]float64
  x     []float64
  alpha float64
  ans   [][]float64
 }{
  {
   ul: blas.Upper,
   n:  4,
   a: [][]float64{
    {10, 2, 0, 1},
    {0, 1, 2, 3},
    {0, 0, 9, 15},
    {0, 0, 0, -6},
   },
   x:     []float64{1, 2, 0, 5},
   alpha: 8,
   ans: [][]float64{
    {18, 18, 0, 41},
    {0, 33, 2, 83},
    {0, 0, 9, 15},
    {0, 0, 0, 194},
   },
  },
  {
   ul: blas.Lower,
   n:  3,
   a: [][]float64{
    {10, 2, 0},
    {4, 1, 2},
    {2, 7, 9},
```

```
  },
  x:     []float64{3, 0, 5},
  alpha: 8,
  ans: [][]float64{
   {82,
 2, 0},
   {4, 1, 2},
   {122, 7, 209},
  },
 },
} {
 incTest := func(incX, extra int) {
  xnew := makeIncremented(test.x, incX, extra)
  aFlat := flatten(test.a)
  ans := flatten(test.ans)
  lda := test.n
  blasser.Dsyr(test.ul, test.n, test.alpha, xnew, incX, aFlat, lda)
  if !dSliceTolEqual(aFlat, ans) {
   t.Errorf("Case %v, idx %v: Want %v, got %v.", i, incX, ans, aFlat)
  }
 }
 incTest(1, 3)
 incTest(1, 0)
 incTest(3, 2)
 incTest(-2, 2)
}
}
graph{{{{GRa{GRi}}}}}
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// Package simple provides a suite of simple graph implementations satisfying
// the gonum/graph interfaces.
//
// All types in simple return the graph.Empty value for empty iterators.
package simple // import "gonum.org/v1/gonum/graph/simple"
graph{{{N{N}}N}N}
graph{A--B}
graph{{{{DIG{}DIG}DIG}{DIG{DIG}DIG}{DIG}DIG}DIG}
graph{No0{No0}}
graph{subGrap8}
graph{nod{nod}nod{nod}nod}
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package gen
```

```
import (
 "testing"

 "gonum.org/v1/gonum/graph/simple"
)

func TestTunableClusteringScaleFree(t *testing.T) {
 for n := 2; n <= 20; n++ {
  for m := 0; m < n; m++ {
   for p := 0.; p <= 1; p += 0.1 {
    g := &gnUndirected{UndirectedBuilder: simple.NewUndirectedGraph()}
    orig := g.NewNode()
    g.AddNode(orig)
    err := TunableClusteringScaleFree(g, n, m, p, nil)
    if err != nil {
     t.Fatalf("unexpected error: n=%d, m=%d, p=%v: %v", n, m, p, err)
    }
    if g.From(orig.ID()).Len() != 0 {
     t.Errorf("edge added from already existing node: n=%d, m=%d, p=%v", n, m, p)
    }
    if g.addBackwards {
     t.Errorf("edge added with From.ID > To.ID: n=%d, m=%d, p=%v", n, m, p)
    }
    if g.addSelfLoop {
     t.Errorf("unexpected self edge: n=%d, m=%d, p=%v", n, m, p)
    }
    if g.addMultipleEdge {
     t.Errorf("unexpected
 multiple edge: n=%d, m=%d, p=%v", n, m, p)
    }
   }
  }
 }
}

func TestPreferentialAttachment(t *testing.T) {
 for n := 2; n <= 20; n++ {
  for m := 0; m < n; m++ {
   g := &gnUndirected{UndirectedBuilder: simple.NewUndirectedGraph()}
   err := PreferentialAttachment(g, n, m, nil)
   if err != nil {
    t.Fatalf("unexpected error: n=%d, m=%d: %v", n, m, err)
   }
   if g.addBackwards {
    t.Errorf("edge added with From.ID > To.ID: n=%d, m=%d", n, m)
   }
   if g.addSelfLoop {
```

```
    t.Errorf("unexpected self edge: n=%d, m=%d", n, m)
   }
   if g.addMultipleEdge {
    t.Errorf("unexpected multiple edge: n=%d, m=%d", n, m)
   }
  }
 }
}
graph{{{SubGrM}SubGrS}SubGrK}
graph{{digr4}digr4}
graph{graphh{{graphe}graphe}}
// Code generated by "go generate gonum.org/v1/gonum/unit/constant; DO NOT EDIT.

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package constant

import (
 "fmt"

 "gonum.org/v1/gonum/unit"
)

// Avogadro is the Avogadro constant (A), the number of constituent particles contained in one mole of a substance.
// The dimension of Avogadro is mol^-1. The constant is exact.
const Avogadro = avogadroUnits(6.02214076e+23)

type avogadroUnits float64

// Unit converts the avogadroUnits to a *unit.Unit
func (cnst avogadroUnits) Unit() *unit.Unit {
 return unit.New(float64(cnst), unit.Dimensions{
  unit.MoleDim: -1,
 })
}

func (cnst avogadroUnits) Format(fs fmt.State, c rune) {
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", cnst, float64(cnst))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
```

```
  w, wOk := fs.Width()
  switch
 {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), w, p, cnst.Unit())
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, cnst.Unit())
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), w, cnst.Unit())
  default:
   fmt.Fprintf(fs, "%"+string(c), cnst.Unit())
  }
 default:
  fmt.Fprintf(fs, "%%!"+string(c)+"(constant.avogadroUnits=%v mol^-1)", float64(cnst))
 }
}
graph{subGrp}
graph{{{{{digraa}digra{{{{digraa}digrag}}}}digrag}}digrag}
graph{"AAAAA"}
graph{{{{digraa}digrag}}}
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package gonum

import (
 "testing"

 "gonum.org/v1/gonum/blas/testblas"
)

func TestDgemm(t *testing.T) {
 testblas.TestDgemm(t, impl)
}

func TestDsymm(t *testing.T) {
 testblas.DsymmTest(t, impl)
}

func TestDtrsm(t *testing.T) {
 testblas.DtrsmTest(t, impl)
}

func TestDsyrk(t *testing.T) {
 testblas.DsyrkTest(t, impl)
}
```

```
func TestDsyr2k(t *testing.T) {
 testblas.Dsyr2kTest(t, impl)
}

func TestDtrmm(t *testing.T) {
 testblas.DtrmmTest(t, impl)
}
graph{{DiGra{DiGra{DiGra}}DiGra}}
graph{Sub_{Sub_}}
graph{Nn{Nn}}
graph{{EDGv{{EDGv{EDGv{{EDGy}}}}}}}
graph{{DiGrapg}}
graph{{nod_}nod_{}nod_{}nod_{}nod_{}nod_{nod_}nod_{nod_}}
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package optimize

import "errors"

// Status represents the status of the optimization. Programs
// should not rely on the underlying numeric value of the Status being constant.
type Status int

const (
 NotTerminated Status = iota
 Success
 FunctionThreshold
 FunctionConvergence
 GradientThreshold
 StepConvergence
 FunctionNegativeInfinity
 MethodConverge
 Failure
 IterationLimit
 RuntimeLimit
 FunctionEvaluationLimit
 GradientEvaluationLimit
 HessianEvaluationLimit
)

func (s Status) String() string {
 return statuses[s].name
}

// Early returns true if the status indicates the optimization ended before a
// minimum was found. As an example, if the maximum iterations was reached, a
```

```
// minimum was not found, but if the gradient norm was reached then a minimum
// was found.
func (s Status) Early() bool {
 return statuses[s].early
}

//
 Err returns the error associated with an early ending to the minimization. If
// Early returns false, Err will return nil.
func (s Status) Err() error {
 return statuses[s].err
}

var statuses = []struct {
 name  string
 early bool
 err   error
}{
 {
  name: "NotTerminated",
 },
 {
  name: "Success",
 },
 {
  name: "FunctionThreshold",
 },
 {
  name: "FunctionConvergence",
 },
 {
  name: "GradientThreshold",
 },
 {
  name: "StepConvergence",
 },
 {
  name: "FunctionNegativeInfinity",
 },
 {
  name: "MethodConverge",
 },
 {
  name:  "Failure",
  early: true,
  err:   errors.New("optimize: termination ended in failure"),
 },
 {
```

```
  name:  "IterationLimit",
  early: true,
  err:   errors.New("optimize: maximum number of major iterations reached"),
 },
 {
  name:  "RuntimeLimit",
  early: true,
  err:   errors.New("optimize: maximum runtime reached"),
 },
 {
  name:  "FunctionEvaluationLimit",
  early: true,
  err:   errors.New("optimize: maximum number of function evaluations reached"),
 },
 {
  name:
  "GradientEvaluationLimit",
  early: true,
  err:   errors.New("optimize: maximum number of gradient evaluations reached"),
 },
 {
  name:  "HessianEvaluationLimit",
  early: true,
  err:   errors.New("optimize: maximum number of Hessian evaluations reached"),
 },
}

// NewStatus returns a unique Status variable to represent a custom status.
// NewStatus is intended to be called only during package initialization, and
// calls to NewStatus are not thread safe.
//
// NewStatus takes in three arguments, the string that should be output from
// Status.String, a boolean if the status indicates early optimization conclusion,
// and the error to return from Err (if any).
func NewStatus(name string, early bool, err error) Status {
 statuses = append(statuses, struct {
  name  string
  early bool
  err   error
 }{name, early, err})
 return Status(len(statuses) - 1)
}
graph{{SUBGRAPR{{SUBGRAPR}{SUBGRAPR}}}}
graph{Subgrag{Subgrag{{Subgraf}}}}
graph{{<<=>=<=>=>}<<=>=<=>=<=>=>}
digraph{no_{no_->no_}no_}
graph{{DN}DY{DN}DY}
```

graph{SUBGR}
//** github.com/hexops/autogold@v1.1.0 **//

{{Types "Apache-2.0 MIT"}}

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modified, or distributed except according to those terms.
graph{{Subg1}{Subg1}}
graph{subGraq}
#
graph{#
#
{#
#
}}
graph{{G7}G9}
//** github.com/xdrpp/stc@v0.1.2 **//

{{Types "GPL-3.0-or-later Apache-2.0"}}

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foundation sees fit.
graph{Dir}
graph{{SUBGRA{{{SUBGRA}{SUBGRA{SUBGRA}}}}}}
graph{{{noc{noc}noc{{{noc}noc}noc{noc}noc}noc}}noc}

//** github.com/cevatbarisyilmaz/gstats@v0.1.5 **//

{{Types "CC-BY-SA-4.0"}}

By default, gstats uses https://github.com/cevatbarisyilmaz/ip2country for geolocation,
which internally uses [GeoLite2](https://dev.maxmind.com/geoip/geoip2/geolite2/) database by Maxmind.
As GeoLite2 is distributed under
[Creative Commons Attribution-ShareAlike 4.0 International License](https://creativecommons.org/licenses/by-sa/4.0/),
gstats also uses the same license due to license's terms.

However, you can override the geolocation function to use another geolocation source
or maybe to not use geolocation at all. In this case, you can use gstats with
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```
package gonum

import (
 "testing"

 "gonum.org/v1/gonum/blas/testblas"
)

func TestDzasum(t *testing.T) {
 testblas.DzasumTest(t, impl)
}

func TestDznrm2(t *testing.T) {
 testblas.Dznrm2Test(t, impl)
}

func TestIzamax(t *testing.T) {
 testblas.IzamaxTest(t, impl)
}

func TestZaxpy(t *testing.T) {
 testblas.ZaxpyTest(t, impl)
}

func TestZcopy(t *testing.T) {
 testblas.ZcopyTest(t, impl)
}

func TestZdotc(t *testing.T) {
 testblas.ZdotcTest(t, impl)
```

```
}

func TestZdotu(t *testing.T) {
 testblas.ZdotuTest(t, impl)
}

func TestZdscal(t *testing.T) {
 testblas.ZdscalTest(t, impl)
}

func TestZscal(t *testing.T) {
 testblas.ZscalTest(t, impl)
}

func TestZswap(t *testing.T) {
 testblas.ZswapTest(t, impl)
}
graph{No_}
graph{{Ea}{Ea}}
graph{{subGs{{subGz}}subGs{{subGz}}subGs}}
Graph{N{N}N{N}N{N}N{N}{N}N{N}N{N}{N}N{N{N}N}N{N}N{N{N}N{N}N{N}{N}N{N}N{N}N}}
graph{{noU}noO{noU}}
Graph{{Subgr4}{Subgr4{Subgr4}{Subgr4{Subgr4}}{Subgr4}}}
graph{NODA{NODA}}
graph{Subgra}
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package gonum

import "math"

// Dlartg generates a plane rotation so that
//  [ cs sn] * [f] = [r]
//  [-sn cs]   [g] = [0]
// This is a more accurate version of BLAS drotg, with the other differences that
// if g = 0, then cs = 1 and sn = 0, and if f = 0 and g != 0, then cs = 0 and sn = 1.
// If abs(f) > abs(g), cs will be positive.
//
// Dlartg is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dlartg(f, g float64) (cs, sn, r float64) {
 safmn2 := math.Pow(dlamchB, math.Trunc(math.Log(dlamchS/dlamchE)/math.Log(dlamchB)/2))
 safmx2 := 1 / safmn2
 if g == 0 {
  cs = 1
  sn = 0
  r = f
```

```
 return cs, sn, r
}
if f == 0 {
 cs = 0
 sn = 1
 r = g
 return cs, sn, r
}
f1 := f
g1 := g
scale := math.Max(math.Abs(f1), math.Abs(g1))
if scale >= safmx2 {
 var count int
 for {
  count++
  f1
*= safmn2
  g1 *= safmn2
  scale = math.Max(math.Abs(f1), math.Abs(g1))
  if scale < safmx2 {
   break
  }
 }
 r = math.Sqrt(f1*f1 + g1*g1)
 cs = f1 / r
 sn = g1 / r
 for i := 0; i < count; i++ {
  r *= safmx2
 }
} else if scale <= safmn2 {
 var count int
 for {
  count++
  f1 *= safmx2
  g1 *= safmx2
  scale = math.Max(math.Abs(f1), math.Abs(g1))
  if scale >= safmn2 {
   break
  }
 }
 r = math.Sqrt(f1*f1 + g1*g1)
 cs = f1 / r
 sn = g1 / r
 for i := 0; i < count; i++ {
  r *= safmn2
 }
} else {
 r = math.Sqrt(f1*f1 + g1*g1)
```

```
 cs = f1 / r
 sn = g1 / r
 }
 if math.Abs(f) > math.Abs(g) && cs < 0 {
  cs *= -1
  sn *= -1
  r *= -1
 }
 return cs, sn, r
}
graph{<=>{<=><=><=>{<=>}}}
graph{GRA}
graph{}
graph{{EDG}{EDG{{EDG}EDG}{EDG}}}
graph{{8.}9.}
graph{{{Grapu}Grapn{Grapu}Grapu}{Grapu}Grapn{Grapu}Grapu}
graph{"\\\\\\\\\\\\\\\\\\\\\\\\\\\\"}
graph{SUBG{SUBG}}
graph{{{{EDv{{{EDv}}}}}}}
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package testlapack

import (
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
)

type Dtrtrier interface {
 Dtrtri(uplo blas.Uplo, diag blas.Diag, n int, a []float64, lda int) bool
}

func DtrtriTest(t *testing.T, impl Dtrtrier) {
 const tol = 1e-10
 rnd := rand.New(rand.NewSource(1))
 bi := blas64.Implementation()
 for _, uplo := range []blas.Uplo{blas.Upper, blas.Lower} {
  for _, diag := range []blas.Diag{blas.NonUnit, blas.Unit} {
   for _, test := range []struct {
    n, lda int
   }{
    {3, 0},
```

```
 {70, 0},
 {200, 0},
 {3, 5},
 {70, 92},
 {200, 205},
} {
 n := test.n
 lda := test.lda
 if lda == 0 {
  lda = n
 }
 // Allocate nn matrix A and fill it with random numbers.
 a := make([]float64, n*lda)
 for i := range a {
  a[i] = rnd.Float64()
 }
 for
i := 0; i < n; i++ {
  // This keeps the matrices well conditioned.
  a[i*lda+i] += float64(n)
 }
 aCopy := make([]float64, len(a))
 copy(aCopy, a)
 // Compute the inverse of the uplo triangle.
 impl.Dtrtri(uplo, diag, n, a, lda)
 // Zero out the opposite triangle.
 if uplo == blas.Upper {
  for i := 1; i < n; i++ {
   for j := 0; j < i; j++ {
    aCopy[i*lda+j] = 0
    a[i*lda+j] = 0
   }
  }
 } else {
  for i := 0; i < n; i++ {
   for j := i + 1; j < n; j++ {
    aCopy[i*lda+j] = 0
    a[i*lda+j] = 0
   }
  }
 }
 if diag == blas.Unit {
  // Set the diagonal explicitly to 1.
  for i := 0; i < n; i++ {
   a[i*lda+i] = 1
   aCopy[i*lda+i] = 1
  }
 }
```

```
    // Compute A^{-1} * A and store the result in ans.
    ans := make([]float64, len(a))
    bi.Dgemm(blas.NoTrans, blas.NoTrans, n, n, n, 1, a, lda, aCopy, lda, 0, ans, lda)
    // Check that ans is the identity matrix.
    dist
 := distFromIdentity(n, ans, lda)
    if dist > tol {
     t.Errorf("|inv(A) * A - I| = %v is too large. Upper = %v, unit = %v, n = %v, lda = %v",
      dist, uplo == blas.Upper, diag == blas.Unit, n, lda)
    }
   }
  }
 }
}
graph{<<e============>>}
graph{DiGraQ{DiGraU{DiGraU}{DiGraU}DiGraU}DiGraD}
graph{{{DIGr}DIGg}}
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package testlapack

import (
 "fmt"
 "testing"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
)

type Dlaqp2er interface {
 Dlapmter
 Dlaqp2(m, n, offset int, a []float64, lda int, jpvt []int, tau, vn1, vn2, work []float64)
}

func Dlaqp2Test(t *testing.T, impl Dlaqp2er) {
 for ti, test := range []struct {
  m, n, offset int
 }{
  {m: 4, n: 3, offset: 0},
  {m: 4, n: 3, offset: 2},
  {m: 4, n: 3, offset: 4},
  {m: 3, n: 4, offset: 0},
  {m: 3, n: 4, offset: 1},
  {m: 3, n: 4, offset: 2},
  {m: 8, n: 3, offset: 0},
  {m: 8, n: 3, offset: 4},
```

```
 {m: 8, n: 3, offset: 8},
 {m: 3, n: 8, offset: 0},
 {m: 3, n: 8, offset: 1},
 {m: 3, n: 8, offset: 2},
 {m: 10, n: 10, offset: 0},
 {m: 10, n: 10, offset: 5},
 {m: 10, n: 10, offset: 10},
} {
 m := test.m
 n := test.n
 jpiv := make([]int, n)

 for _, extra := range
[]int{0, 11} {
  a := zeros(m, n, n+extra)
  c := 1
  for i := 0; i < m; i++ {
   for j := 0; j < n; j++ {
    a.Data[i*a.Stride+j] = float64(c)
    c++
   }
  }
  aCopy := cloneGeneral(a)
  for j := range jpiv {
   jpiv[j] = j
  }

  tau := make([]float64, n)
  vn1 := columnNorms(m, n, a.Data, a.Stride)
  vn2 := columnNorms(m, n, a.Data, a.Stride)
  work := make([]float64, n)

  impl.Dlaqp2(m, n, test.offset, a.Data, a.Stride, jpiv, tau, vn1, vn2, work)

  prefix := fmt.Sprintf("Case %v (offset=%d,m=%v,n=%v,extra=%v)", ti, test.offset, m, n, extra)
  if !generalOutsideAllNaN(a) {
   t.Errorf("%v: out-of-range write to A", prefix)
  }

  if test.offset == m {
   continue
  }

  mo := m - test.offset
  q := constructQ("QR", mo, n, a.Data[test.offset*a.Stride:], a.Stride, tau)
  // Check that Q is orthogonal.
  if !isOrthogonal(q) {
   t.Errorf("Case %v, Q not orthogonal", ti)
```

```
   }

   // Check that A * P = Q * R
   r := blas64.General{
    Rows:   mo,
    Cols:
   n,
    Stride: n,
    Data:   make([]float64, mo*n),
   }
   for i := 0; i < mo; i++ {
    for j := i; j < n; j++ {
     r.Data[i*n+j] = a.Data[(test.offset+i)*a.Stride+j]
    }
   }
   got := nanGeneral(mo, n, n)
   blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, q, r, 0, got)

   want := aCopy
   impl.Dlapmt(true, want.Rows, want.Cols, want.Data, want.Stride, jpiv)
   want.Rows = mo
   want.Data = want.Data[test.offset*want.Stride:]
   if !equalApproxGeneral(got, want, 1e-12) {
    t.Errorf("Case %v,  Q*R != A*P\nQ*R=%v\nA*P=%v", ti, got, want)
   }
  }
 }
}
digraph{e[l=<




   >]}
//**
source: https://github.com/apache/mynewt-artifact/blob/v0.0.15/LICENSE
**//
{{Types "Apache-2.0"}}

{{template "Apache-2.0.lre"}}

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* newt/vendor/mynewt.apache.org/newt/yaml/readerc.go
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* newt/vendor/mynewt.apache.org/newt/yaml/writerc.go

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* newtmgr/vendor/mynewt.apache.org/newt/yaml/apic.go
* newtmgr/vendor/mynewt.apache.org/newt/yaml/emitterc.go
* newtmgr/vendor/mynewt.apache.org/newt/yaml/parserc.go
* newtmgr/vendor/mynewt.apache.org/newt/yaml/readerc.go
* newtmgr/vendor/mynewt.apache.org/newt/yaml/scannerc.go
* newtmgr/vendor/mynewt.apache.org/newt/yaml/writerc.go
* newtmgr/vendor/mynewt.apache.org/newt/yaml/yamlh.go
* newtmgr/vendor/mynewt.apache.org/newt/yaml/yamlprivateh.go
* yaml/apic.go
* yaml/emitterc.go
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* yaml/readerc.go
* yaml/scannerc.go
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```
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package ast_test

import (
 "bytes"
 "io/ioutil"
 "testing"

 "gonum.org/v1/gonum/graph/formats/dot"
 "gonum.org/v1/gonum/graph/formats/dot/ast"
)

func TestParseFile(t *testing.T) {
 golden := []struct {
  in  string
  out string
 }{
  {in: "../internal/testdata/empty.dot"},
  {in: "../internal/testdata/graph.dot"},
  {in: "../internal/testdata/digraph.dot"},
  {in: "../internal/testdata/strict.dot"},
  {in: "../internal/testdata/multi.dot"},
  {in: "../internal/testdata/named_graph.dot"},
  {in: "../internal/testdata/node_stmt.dot"},
  {in: "../internal/testdata/edge_stmt.dot"},
  {in: "../internal/testdata/attr_stmt.dot"},
  {in:
 "../internal/testdata/attr.dot"},
  {
   in:  "../internal/testdata/subgraph.dot",
```

```
  out: "../internal/testdata/subgraph.golden",
  },
  {
  in:  "../internal/testdata/semi.dot",
  out: "../internal/testdata/semi.golden",
  },
  {
  in:  "../internal/testdata/empty_attr.dot",
  out: "../internal/testdata/empty_attr.golden",
  },
  {
  in:  "../internal/testdata/attr_lists.dot",
  out: "../internal/testdata/attr_lists.golden",
  },
  {
  in:  "../internal/testdata/attr_sep.dot",
  out: "../internal/testdata/attr_sep.golden",
  },
  {in: "../internal/testdata/subgraph_vertex.dot"},
  {in: "../internal/testdata/port.dot"},
 }
 for _, g := range golden {
  file, err := dot.ParseFile(g.in)
  if err != nil {
   t.Errorf("%q: unable to parse file; %v", g.in, err)
   continue
  }
  // If no output path is specified, the input is already golden.
  out := g.in
  if len(g.out) > 0 {
   out = g.out
  }
  buf, err := ioutil.ReadFile(out)
  if err != nil {
   t.Errorf("%q: unable to
 read file; %v", g.in, err)
   continue
  }
  got := file.String()
  // Remove trailing newline.
  want := string(bytes.TrimSpace(buf))
  if got != want {
   t.Errorf("%q: graph mismatch; expected %q, got %q", g.in, want, got)
  }
 }
}

// Verify that all statements implement the Stmt interface.
```

```
var (
 _ ast.Stmt = (*ast.NodeStmt)(nil)
 _ ast.Stmt = (*ast.EdgeStmt)(nil)
 _ ast.Stmt = (*ast.AttrStmt)(nil)
 _ ast.Stmt = (*ast.Attr)(nil)
 _ ast.Stmt = (*ast.Subgraph)(nil)
)

// Verify that all vertices implement the Vertex interface.
var (
 _ ast.Vertex = (*ast.Node)(nil)
 _ ast.Vertex = (*ast.Subgraph)(nil)
)
graph{ED}
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package community

import (
 "gonum.org/v1/gonum/graph"
 "gonum.org/v1/gonum/graph/internal/set"
 "gonum.org/v1/gonum/graph/simple"
 "gonum.org/v1/gonum/graph/topo"
 "gonum.org/v1/gonum/graph/traverse"
)

// KCliqueCommunities returns the k-clique communties of the undirected graph g for
// k greater than zero. The returned communities are identified by linkage via k-clique
// adjacency, where adjacency is defined as having k-1 common nodes. KCliqueCommunities
// returns a single component including the full set of nodes of g when k is 1,
// and the classical connected components of g when k is 2. Note that k-clique
// communities may contain common nodes from g.
//
// k-clique communities are described in Palla et al. doi:10.1038/nature03607.
func KCliqueCommunities(k int, g graph.Undirected) [][]graph.Node {
 if k < 1 {
  panic("community:
 invalid k for k-clique communities")
 }
 switch k {
 case 1:
  return [][]graph.Node{graph.NodesOf(g.Nodes())}
 case 2:
  return topo.ConnectedComponents(g)
 default:
  cg := simple.NewUndirectedGraph()
```

```
 topo.CliqueGraph(cg, g)
 cc := kConnectedComponents(k, cg)

 // Extract the nodes in g from cg,
 // removing duplicates and separating
 // cliques smaller than k into separate
 // single nodes.
 var kcc [][]graph.Node
 single := set.NewNodes()
 inCommunity := set.NewNodes()
 for _, c := range cc {
  nodes := set.NewNodesSize(len(c))
  for _, cn := range c {
   for _, n := range cn.(topo.Clique).Nodes() {
    nodes.Add(n)
   }
  }
  if len(nodes) < k {
   for _, n := range nodes {
    single.Add(n)
   }
   continue
  }
  var kc []graph.Node
  for _, n := range nodes {
   inCommunity.Add(n)
   kc = append(kc, n)
  }
  kcc = append(kcc, kc)
 }
 for _, n := range single {
  if !inCommunity.Has(n) {
   kcc = append(kcc, []graph.Node{n})
  }
 }

 return
 kcc
 }
}

// kConnectedComponents returns the connected components of topo.Clique nodes that
// are joined by k-1 underlying shared nodes in the graph that created the clique
// graph cg.
func kConnectedComponents(k int, cg graph.Undirected) [][]graph.Node {
 var (
  c  []graph.Node
  cc [][]graph.Node
```

```
 )
 during := func(n graph.Node) {
  c = append(c, n)
 }
 after := func() {
  cc = append(cc, []graph.Node(nil))
  cc[len(cc)-1] = append(cc[len(cc)-1], c...)
  c = c[:0]
 }
 w := traverse.DepthFirst{
  Traverse: func(e graph.Edge) bool {
   return len(e.(topo.CliqueGraphEdge).Nodes()) >= k-1
  },
 }
 w.WalkAll(cg, nil, after, during)

 return cc
}
graph{{ED}ED{ED}}
graph{{{{EB}}EB{{EB}}EB{EB}}}
graph{{GRAP_ GRAP_ GRAP_}}
digraph {
 {A B} -> C
}
graph{{SubGra_}{SubGra_}{SubGra_}}
graph{no{{no{no}{no}}no}}
graph{SUB}
graph{diG{diG{diG{di9}diG}}diG{diG{di9}diG}}
Graph{Subgra}
graph{{{Digrapn}{Digrapt}{Digrapt}{Digrapt}}}
graph{{stricN}}
graph{{Subg{Subg}{Subg}{Subg{Subg}{Subg}Subg}{Subg}{Subg}}}
graph{su_{su_{su_{su_{}su_}su_{su_}}}su_{su_}}
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// Package uid implements unique ID provision for graphs.
package uid

import "gonum.org/v1/gonum/graph/internal/set"

// Max is the maximum value of int64.
const Max = int64(^uint64(0) >> 1)

// Set implements available ID storage.
type Set struct {
 maxID      int64
```

```
 used, free set.Int64s
}

// NewSet returns a new Set. The returned value should not be passed except by pointer.
func NewSet() Set {
 return Set{maxID: -1, used: make(set.Int64s), free: make(set.Int64s)}
}

// NewID returns a new unique ID. The ID returned is not considered used
// until passed in a call to use.
func (s *Set) NewID() int64 {
 for id := range s.free {
  return id
 }
 if s.maxID != Max {
  return s.maxID + 1
 }
 for id := int64(0); id <= s.maxID+1; id++ {
  if !s.used.Has(id) {
   return id
  }
 }
 panic("unreachable")
}

// Use adds the id to the
 used IDs in the Set.
func (s *Set) Use(id int64) {
 s.used.Add(id)
 s.free.Remove(id)
 if id > s.maxID {
  s.maxID = id
 }
}

// Release frees the id for reuse.
func (s *Set) Release(id int64) {
 s.free.Add(id)
 s.used.Remove(id)
}
graph{Dir{Dir{Dir}Dir}Dir{Dir}}
Graph{Graph[]{Graph[]}Graph[]}
graph{{N}N}
graph{{{gra{{gra}}gra}}}
graph{{SUBGRAPHE}{SUBGRAPHE}{SUBGRAPHP}}
graph{{Edg_}Edg_{Edg_{Edg_}Edg_}}
digraph {
 A -> B
```

}
digraph {
 C -> D
}
graph{Nod}
//** github.com/daveadams/vax **//

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graph{{nN{nN{nN{nN}nD}nD}}nN{nN}nD}
graph{{Grai}}
graph{edN{edG}}
graph{N9{{N9{N9{N7}}}N9{N7}}}
graph{{{{grapg}grape}{grape{grapg}}}{{grape{grapg}}}}
graph{{St_}St_}
graph{{{su}{su}su}{su}}
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graph{SUA}
graph{{stria{{stria}stria{stria}}}stria{stria}}
digraph{d_}
graph{{Subg{Subg}{Subg}{Subg}{Subg}{Subg}}}
graph{{Digraz}Digrax}
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```
package material

import (
 "gioui.org/layout"
 "gioui.org/text"
 "gioui.org/unit"
 "gioui.org/widget"
)

type RadioButton struct {
 checkable
 Key string
}

// RadioButton returns a RadioButton with a label. The key specifies
// the value for the Enum.
func (t *Theme) RadioButton(key, label string) RadioButton {
 return RadioButton{
  checkable: checkable{
   Label: label,

   Color:     t.Color.Text,
   IconColor: t.Color.Primary,
   Font: text.Font{
    Size: t.TextSize.Scale(14.0 / 16.0),
   },
   Size:              unit.Dp(26),
   shaper:            t.Shaper,
   checkedStateIcon:   t.radioCheckedIcon,
   uncheckedStateIcon: t.radioUncheckedIcon,
  },
  Key: key,
```

```
 }
}

func (r RadioButton) Layout(gtx *layout.Context, enum *widget.Enum) {
 r.layout(gtx, enum.Value(gtx) == r.Key)
 enum.Layout(gtx, r.Key)
}
graph{{{Di6}{Di6{{{Di6}{Di6}Di6}{Di6}}}}}
graph{{P{{GRAP_ GRAP_ GRAP_}}GRAP_ GRAP_}}
graph{{{STR6{STR6}}STR6{{STR6}STR6}}STR6{{STR6}}STR6{STR6{STR6}}}
graph{____{____}_}
graph{c5{{{{c5c5}z9v6k6{}{i5l4{F6d3o5j6V2E4k1P7O8N6{c5}}}{c5}}{c5{c5}}}}{{{{k1P7O8T9R2X2{T7c5c
5{}}c5}}{{}}}}c5}
graph{{stric_}}
graph{SUBGR9{{SUBGR5}}}
graph{Strr-9Strr}
graph{ND{ND}}
graph{{{Stricy{{{Stricy}}Stricy}{Stricy}}Stricy}}
/*]*/graph{/**/}
graph{{S}S{S{S}S}S}
graph{{SUU{{SUU}}}}
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// license that can be found in the LICENSE file.

package functions

import (
 "math"
 "testing"

 "gonum.org/v1/gonum/diff/fd"
 "gonum.org/v1/gonum/floats"
)

func TestMinimalSurface(t *testing.T) {
 for _, size := range [][2]int{
  {20, 30},
  {30, 30},
  {50, 40},
 } {
  f := NewMinimalSurface(size[0], size[1])
  x0 := f.InitX()
  grad := make([]float64, len(x0))
  f.Grad(grad, x0)
  fdGrad := fd.Gradient(nil, f.Func, x0, &fd.Settings{Formula: fd.Central})

  // Test that the numerical and analytical gradients agree.
```

```
  dist := floats.Distance(grad, fdGrad, math.Inf(1))
  if dist > 1e-9 {
   t.Errorf("grid %v x %v: numerical and analytical gradient do not match. |fdGrad - grad|_ = %v",
    size[0], size[1], dist)
  }

  // Test that the gradient at the minimum is small enough.
  // In some sense this test is not completely correct because ExactX
  // returns the exact solution
 to the continuous problem projected on the
  // grid, not the exact solution to the discrete problem which we are
  // solving. This is the reason why a relatively loose tolerance 1e-4
  // must be used.
  xSol := f.ExactX()
  f.Grad(grad, xSol)
  norm := floats.Norm(grad, math.Inf(1))
  if norm > 1e-4 {
   t.Errorf("grid %v x %v: gradient at the minimum not small enough. |grad|_ = %v",
    size[0], size[1], norm)
  }
 }
}
graph edl{{edn{{edn}edh{edn}edl}}edh{edn}edl}
digraph
{p.05;r[e=d,h=.1t=.1]node0[l=""t=0][h=5]node1[l=""]node2[l=""]node3[l=""]node4[l=""]node5[l=""]node6[l=""]no
de7[l=""]node0->node1:n node0->node2:n node0->node3:n node0->node4:n node0->node5:n node2->node6:n node4-
>node7:n}
graph{SubGp{SubGp}SubGh{SubGp}}
graph{{{{{a}}{{_}{{{{{{{{4}}}}{{4}}}}{{{{2}}}}{{{{4}}}}}}}}{{{4}}}}{{{{4}}}}}}
graph{Stt{St}Stt{{Stt{St}}St}}
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package gpu

import (
 "fmt"

 "gioui.org/internal/ops"
)

type resourceCache struct {
 res    map[interface{}]resource
 newRes map[interface{}]resource
}

// opCache is like a resourceCache using the concrete Key
// key type to avoid allocations.
type opCache struct {
```

```
 res    map[ops.Key]resource
 newRes map[ops.Key]resource
}

func newResourceCache() *resourceCache {
 return &resourceCache{
  res:    make(map[interface{}]resource),
  newRes: make(map[interface{}]resource),
 }
}

func (r *resourceCache) get(key interface{}) (resource, bool) {
 v, exists := r.res[key]
 if exists {
  r.newRes[key] = v
 }
 return v, exists
}

func (r *resourceCache) put(key interface{}, val resource) {
 if _, exists := r.newRes[key]; exists {
  panic(fmt.Errorf("key exists, %p", key))
 }
 r.res[key] = val
 r.newRes[key] = val
}

func (r *resourceCache) frame(ctx *context) {
 for k, v := range r.res {
  if _, exists := r.newRes[k]; !exists {
   delete(r.res, k)
   v.release(ctx)
  }
 }
 for
 k, v := range r.newRes {
  delete(r.newRes, k)
  r.res[k] = v
 }
}

func (r *resourceCache) release(ctx *context) {
 for _, v := range r.newRes {
  v.release(ctx)
 }
 r.newRes = nil
 r.res = nil
}
```

```
func newOpCache() *opCache {
 return &opCache{
  res:    make(map[ops.Key]resource),
  newRes: make(map[ops.Key]resource),
 }
}

func (r *opCache) get(key ops.Key) (resource, bool) {
 v, exists := r.res[key]
 if exists {
  r.newRes[key] = v
 }
 return v, exists
}

func (r *opCache) put(key ops.Key, val resource) {
 if _, exists := r.newRes[key]; exists {
  panic(fmt.Errorf("key exists, %#v", key))
 }
 r.res[key] = val
 r.newRes[key] = val
}

func (r *opCache) frame(ctx *context) {
 for k, v := range r.res {
  if _, exists := r.newRes[k]; !exists {
   delete(r.res, k)
   v.release(ctx)
  }
 }
 for k, v := range r.newRes {
  delete(r.newRes, k)
  r.res[k] = v
 }
}

func (r *opCache) release(ctx *context) {
 for _, v := range r.newRes {
  v.release(ctx)
 }
 r.newRes
 = nil
 r.res = nil
}
graph{{{digrap{digrap}digrap{digrap}digrap}}}
graph{{{{Str}Str}}}
```

```
digraph {
 A [style=filled fillcolor=red color=blue]
}
graph{{{{{Ed}Ed}Ed}Ed}}
graph{{{gra}}}
graph{{Edge_}{Edge_}}
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package ops

import (
 "encoding/binary"
 "math"

 "gioui.org/f32"
 "gioui.org/internal/opconst"
 "gioui.org/op"
)

func DecodeTransformOp(d []byte) op.TransformOp {
 bo := binary.LittleEndian
 if opconst.OpType(d[0]) != opconst.TypeTransform {
  panic("invalid op")
 }
 return op.TransformOp{}.Offset(f32.Point{
  X: math.Float32frombits(bo.Uint32(d[1:])),
  Y: math.Float32frombits(bo.Uint32(d[5:])),
 })
}
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// Package r1 provides 1D vectors and intervals and operations on them.
package r1 // import "gonum.org/v1/gonum/spatial/r1"
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package testlapack

import (
 "fmt"
 "math"
 "testing"

 "golang.org/x/exp/rand"
```

```
 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
)

type Dlatrser interface {
 Dlatrs(uplo blas.Uplo, trans blas.Transpose, diag blas.Diag, normin bool, n int, a []float64, lda int, x []float64,
cnorm []float64) (scale float64)
}

func DlatrsTest(t *testing.T, impl Dlatrser) {
 rnd := rand.New(rand.NewSource(1))
 for _, uplo := range []blas.Uplo{blas.Upper, blas.Lower} {
  for _, trans := range []blas.Transpose{blas.Trans, blas.NoTrans} {
   for _, n := range []int{0, 1, 2, 3, 4, 5, 6, 7, 10, 20, 50, 100} {
    for _, lda := range []int{n, 2*n + 1} {
     lda = max(1, lda)
     imats := []int{7, 11, 12, 13, 14, 15, 16, 17, 18}
     if n < 6 {
      imats = append(imats, 19)
     }
     for _, imat := range imats {
      testDlatrs(t,
 impl, imat, uplo, trans, n, lda, rnd)
     }
    }
   }
  }
 }
}

func testDlatrs(t *testing.T, impl Dlatrser, imat int, uplo blas.Uplo, trans blas.Transpose, n, lda int, rnd *rand.Rand)
{
 const tol = 1e-14

 a := nanSlice(n * lda)
 b := nanSlice(n)
 work := make([]float64, 3*n)

 // Generate triangular test matrix and right hand side.
 diag := dlattr(imat, uplo, trans, n, a, lda, b, work, rnd)
 if imat <= 10 {
  // b has not been generated.
  dlarnv(b, 3, rnd)
 }

 cnorm := nanSlice(n)
 x := make([]float64, n)
```

```
 // Call Dlatrs with normin=false.
 copy(x, b)
 scale := impl.Dlatrs(uplo, trans, diag, false, n, a, lda, x, cnorm)
 prefix := fmt.Sprintf("Case imat=%v (n=%v,lda=%v,trans=%v,uplo=%v,diag=%v", imat, n, lda, trans, uplo, diag)
 for i, v := range cnorm {
  if math.IsNaN(v) {
   t.Errorf("%v: cnorm[%v] not computed (scale=%v,normin=false)", prefix, i, scale)
  }
 }
 resid, hasNaN := dlatrsResidual(uplo, trans, diag, n, a, lda, scale, cnorm, x, b, work[:n])
 if hasNaN {
  t.Errorf("%v:
 unexpected NaN (scale=%v,normin=false)", prefix, scale)
 } else if resid > tol {
  t.Errorf("%v: residual %v too large (scale=%v,normin=false)", prefix, resid, scale)
 }

 // Call Dlatrs with normin=true because cnorm has been filled.
 copy(x, b)
 scale = impl.Dlatrs(uplo, trans, diag, true, n, a, lda, x, cnorm)
 resid, hasNaN = dlatrsResidual(uplo, trans, diag, n, a, lda, scale, cnorm, x, b, work[:n])
 if hasNaN {
  t.Errorf("%v: unexpected NaN (scale=%v,normin=true)", prefix, scale)
 } else if resid > tol {
  t.Errorf("%v: residual %v too large (scale=%v,normin=true)", prefix, resid, scale)
 }
}

// dlatrsResidual returns norm(trans(A)*x-scale*b) / (norm(trans(A))*norm(x)*eps)
// and whether NaN has been encountered in the process.
func dlatrsResidual(uplo blas.Uplo, trans blas.Transpose, diag blas.Diag, n int, a []float64, lda int, scale float64,
cnorm []float64, x, b, work []float64) (resid float64, hasNaN bool) {
 if n == 0 {
  return 0, false
 }

 // Compute the norm of the
 triangular matrix A using the column norms
 // already computed by Dlatrs.
 var tnorm float64
 if diag == blas.NonUnit {
  for j := 0; j < n; j++ {
   tnorm = math.Max(tnorm, math.Abs(a[j*lda+j])+cnorm[j])
  }
 } else {
  for j := 0; j < n; j++ {
   tnorm = math.Max(tnorm, 1+cnorm[j])
  }
```

```
 }

 eps := dlamchE
 smlnum := dlamchS
 bi := blas64.Implementation()

 // Compute norm(trans(A)*x-scale*b) / (norm(trans(A))*norm(x)*eps)
 copy(work, x)
 ix := bi.Idamax(n, work, 1)
 xnorm := math.Max(1, math.Abs(work[ix]))
 xscal := 1 / xnorm / float64(n)
 bi.Dscal(n, xscal, work, 1)
 bi.Dtrmv(uplo, trans, diag, n, a, lda, work, 1)
 bi.Daxpy(n, -scale*xscal, b, 1, work, 1)
 for _, v := range work {
  if math.IsNaN(v) {
   return 1 / eps, true
  }
 }
 ix = bi.Idamax(n, work, 1)
 resid = math.Abs(work[ix])
 ix = bi.Idamax(n, x, 1)
 xnorm = math.Abs(x[ix])
 if resid*smlnum <= xnorm {
  if xnorm > 0 {
   resid /= xnorm
  }
 } else if resid > 0 {
  resid = 1 / eps
 }
 if resid*smlnum <= tnorm {
  if tnorm
 > 0 {
   resid /= tnorm
  }
 } else if resid > 0 {
  resid = 1 / eps
 }
 return resid, false
}
Graph{{{{D}D{{{{D}D}{D}}}D}}}
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package gonum

// Dorghr generates an nn orthogonal matrix Q which is defined as the product
```

```
// of ihi-ilo elementary reflectors:
//  Q = H_{ilo} H_{ilo+1} ... H_{ihi-1}.
//
// a and lda represent an nn matrix that contains the elementary reflectors, as
// returned by Dgehrd. On return, a is overwritten by the nn orthogonal matrix
// Q. Q will be equal to the identity matrix except in the submatrix
// Q[ilo+1:ihi+1,ilo+1:ihi+1].
//
// ilo and ihi must have the same values as in the previous call of Dgehrd. It
// must hold that
//  0 <= ilo <= ihi < n  if n > 0,
//  ilo = 0, ihi = -1    if n == 0.
//
// tau contains the scalar factors of the elementary reflectors, as returned by
// Dgehrd. tau must have length n-1.
//
// work must have length at least max(1,lwork) and lwork must be at least
// ihi-ilo. For optimum performance lwork
 must be at least (ihi-ilo)*nb where nb
// is the optimal blocksize. On return, work[0] will contain the optimal value
// of lwork.
//
// If lwork == -1, instead of performing Dorghr, only the optimal value of lwork
// will be stored into work[0].
//
// If any requirement on input sizes is not met, Dorghr will panic.
//
// Dorghr is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dorghr(n, ilo, ihi int, a []float64, lda int, tau, work []float64, lwork int) {
 nh := ihi - ilo
 switch {
 case ilo < 0 || max(1, n) <= ilo:
  panic(badIlo)
 case ihi < min(ilo, n-1) || n <= ihi:
  panic(badIhi)
 case lda < max(1, n):
  panic(badLdA)
 case lwork < max(1, nh) && lwork != -1:
  panic(badLWork)
 case len(work) < max(1, lwork):
  panic(shortWork)
 }

 // Quick return if possible.
 if n == 0 {
  work[0] = 1
  return
 }
```

```
lwkopt := max(1, nh) * impl.Ilaenv(1, "DORGQR", " ", nh, nh, nh, -1)
if lwork == -1 {
 work[0] = float64(lwkopt)
 return
}

switch {
case
len(a) < (n-1)*lda+n:
 panic(shortA)
case len(tau) < n-1:
 panic(shortTau)
}

// Shift the vectors which define the elementary reflectors one column
// to the right.
for i := ilo + 2; i < ihi+1; i++ {
 copy(a[i*lda+ilo+1:i*lda+i], a[i*lda+ilo:i*lda+i-1])
}
// Set the first ilo+1 and the last n-ihi-1 rows and columns to those of
// the identity matrix.
for i := 0; i < ilo+1; i++ {
 for j := 0; j < n; j++ {
  a[i*lda+j] = 0
 }
 a[i*lda+i] = 1
}
for i := ilo + 1; i < ihi+1; i++ {
 for j := 0; j <= ilo; j++ {
  a[i*lda+j] = 0
 }
 for j := i; j < n; j++ {
  a[i*lda+j] = 0
 }
}
for i := ihi + 1; i < n; i++ {
 for j := 0; j < n; j++ {
  a[i*lda+j] = 0
 }
 a[i*lda+i] = 1
}
if nh > 0 {
 // Generate Q[ilo+1:ihi+1,ilo+1:ihi+1].
 impl.Dorgqr(nh, nh, nh, a[(ilo+1)*lda+ilo+1:], lda, tau[ilo:ihi], work, lwork)
}
work[0] = float64(lwkopt)
}
```

```
graph{{Dig_}Dig_{}Dig_{Dig_}Dig_{}Dig_{Dig_}Dig_{}Dig_{Dig_}}
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package community

import (
 "fmt"
 "reflect"
 "sort"
 "testing"

 "gonum.org/v1/gonum/graph"
 "gonum.org/v1/gonum/graph/internal/ordered"
 "gonum.org/v1/gonum/graph/simple"
)

// batageljZaversnikGraph is the example graph from
// figure 1 of http://arxiv.org/abs/cs/0310049v1
var batageljZaversnikGraph = []intset{
 0: nil,

 1: linksTo(2, 3),
 2: linksTo(4),
 3: linksTo(4),
 4: linksTo(5),
 5: nil,

 6:  linksTo(7, 8, 14),
 7:  linksTo(8, 11, 12, 14),
 8:  linksTo(14),
 9:  linksTo(11),
 10: linksTo(11),
 11: linksTo(12),
 12: linksTo(18),
 13: linksTo(14, 15),
 14: linksTo(15, 17),
 15: linksTo(16, 17),
 16: nil,
 17: linksTo(18, 19, 20),
 18: linksTo(19, 20),
 19: linksTo(20),
 20: nil,
}

var kCliqueCommunitiesTests = []struct {
 name string
```

```
 g    []intset
 k    int
 want []][]graph.Node
}{
 {
  name: "simple",
  g: []intset{
   0:
 linksTo(1, 2, 4, 6),
   1: linksTo(2, 4, 6),
   2: linksTo(3, 6),
   3: linksTo(4, 5),
   4: linksTo(6),
   5: nil,
   6: nil,
  },
  k: 3,
  want: []][]graph.Node{
   {simple.Node(0), simple.Node(1), simple.Node(2), simple.Node(4), simple.Node(6)},
   {simple.Node(3)},
   {simple.Node(5)},
  },
 },
 {
  name: "Batagelj-Zaversnik Graph",
  g:    bataglejZaversnikGraph,
  k:    3,
  want: []][]graph.Node{
   {simple.Node(0)},
   {simple.Node(1)},
   {simple.Node(2)},
   {simple.Node(3)},
   {simple.Node(4)},
   {simple.Node(5)},
   {simple.Node(6), simple.Node(7), simple.Node(8), simple.Node(14)},
   {simple.Node(7), simple.Node(11), simple.Node(12)},
   {simple.Node(9)},
   {simple.Node(10)},
   {simple.Node(13), simple.Node(14), simple.Node(15), simple.Node(17)},
   {simple.Node(16)},
   {simple.Node(17), simple.Node(18), simple.Node(19), simple.Node(20)},
  },
 },
 {
  name: "Batagelj-Zaversnik Graph",
  g:    bataglejZaversnikGraph,
  k:    4,
  want: []][]graph.Node{
```

```
  {simple.Node(0)},
  {simple.Node(1)},
  {simple.Node(2)},
  {simple.Node(3)},
  {simple.Node(4)},
  {simple.Node(5)},
  {simple.Node(6),
 simple.Node(7), simple.Node(8), simple.Node(14)},
  {simple.Node(9)},
  {simple.Node(10)},
  {simple.Node(11)},
  {simple.Node(12)},
  {simple.Node(13)},
  {simple.Node(15)},
  {simple.Node(16)},
  {simple.Node(17), simple.Node(18), simple.Node(19), simple.Node(20)},
 },
},
}

func TestKCliqueCommunities(t *testing.T) {
 for _, test := range kCliqueCommunitiesTests {
  g := simple.NewUndirectedGraph()
  for u, e := range test.g {
   // Add nodes that are not defined by an edge.
   if g.Node(int64(u)) == nil {
    g.AddNode(simple.Node(u))
   }
   for v := range e {
    g.SetEdge(simple.Edge{F: simple.Node(u), T: simple.Node(v)})
   }
  }
  got := KCliqueCommunities(test.k, g)

  for _, c := range got {
   sort.Sort(ordered.ByID(c))
  }
  sort.Sort(ordered.BySliceIDs(got))

  if !reflect.DeepEqual(got, test.want) {
   t.Errorf("unexpected k-connected
 components for %q k=%d:\ngot: %v\nwant:%v", test.name, test.k, got, test.want)
  }
 }
}

func BenchmarkKCliqueCommunities(b *testing.B) {
 for _, test := range kCliqueCommunitiesTests {
```

```
  g := simple.NewUndirectedGraph()
  for u, e := range test.g {
   // Add nodes that are not defined by an edge.
   if g.Node(int64(u)) == nil {
    g.AddNode(simple.Node(u))
   }
   for v := range e {
    g.SetEdge(simple.Edge{F: simple.Node(u), T: simple.Node(v)})
   }
  }

  b.Run(fmt.Sprintf("%s-k=%d", test.name, test.k), func(b *testing.B) {
   var got [][]graph.Node
   for i := 0; i < b.N; i++ {
    got = KCliqueCommunities(test.k, g)
   }
   if len(got) != len(test.want) {
    b.Errorf("unexpected k-connected components for %q k=%d:\ngot: %v\nwant:%v", test.name, test.k, got, test.want)
   }
  })
 }
}
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package path

import (
 "math"
 "reflect"
 "testing"

 "gonum.org/v1/gonum/graph"
 "gonum.org/v1/gonum/graph/path/internal/testgraphs"
)

func TestBellmanFordFrom(t *testing.T) {
 for _, test := range testgraphs.ShortestPathTests {
  g := test.Graph()
  for _, e := range test.Edges {
   g.SetWeightedEdge(e)
  }

  pt, ok := BellmanFordFrom(test.Query.From(), g.(graph.Graph))
  if test.HasNegativeCycle {
   if ok {
    t.Errorf("%q: expected negative cycle", test.Name)
```

```
  }
  continue
 }
 if !ok {
  t.Fatalf("%q: unexpected negative cycle", test.Name)
 }

 if pt.From().ID() != test.Query.From().ID() {
  t.Fatalf("%q: unexpected from node ID: got:%d want:%d", test.Name, pt.From().ID(), test.Query.From().ID())
 }

 p, weight := pt.To(test.Query.To().ID())
 if weight != test.Weight {
  t.Errorf("%q: unexpected weight from
Between: got:%f want:%f",
   test.Name, weight, test.Weight)
 }
 if weight := pt.WeightTo(test.Query.To().ID()); weight != test.Weight {
  t.Errorf("%q: unexpected weight from Weight: got:%f want:%f",
   test.Name, weight, test.Weight)
 }

 var got []int64
 for _, n := range p {
  got = append(got, n.ID())
 }
 ok = len(got) == 0 && len(test.WantPaths) == 0
 for _, sp := range test.WantPaths {
  if reflect.DeepEqual(got, sp) {
   ok = true
   break
  }
 }
 if !ok {
  t.Errorf("%q: unexpected shortest path:\ngot: %v\nwant from:%v",
   test.Name, p, test.WantPaths)
 }

 np, weight := pt.To(test.NoPathFor.To().ID())
 if pt.From().ID() == test.NoPathFor.From().ID() && (np != nil || !math.IsInf(weight, 1)) {
  t.Errorf("%q: unexpected path:\ngot: path=%v weight=%f\nwant:path=<nil> weight=+Inf",
   test.Name, np, weight)
 }
}
}
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```

```
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package quat

import "math"

// IsNaN returns true if any of real(q), imag(q), jmag(q), or kmag(q) is NaN
// and none are an infinity.
func IsNaN(q Number) bool {
 if math.IsInf(q.Real, 0) || math.IsInf(q.Imag, 0) || math.IsInf(q.Jmag, 0) || math.IsInf(q.Kmag, 0) {
  return false
 }
 return math.IsNaN(q.Real) || math.IsNaN(q.Imag) || math.IsNaN(q.Jmag) || math.IsNaN(q.Kmag)
}

// NaN returns a quaternion ``not-a-number'' value.
func NaN() Number {
 nan := math.NaN()
 return Number{Real: nan, Imag: nan, Jmag: nan, Kmag: nan}
}
graph{DiGra{{{{{DiGra}}}DiGra}}}
graph{{{{Str}}}}
graph{{{{DiGu}DiGv}}}
graph{diGra_[diGra_=""]diGra_}
graph{{{{{{{digraa}digrag}}}}digrag}}digrag}
graph{{DIR}{DIR}{DIR}DIR}
graph{Subc{{Subc{{Suba}Suba}}Suba}}
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// Package integrate provides functions to compute an integral given a
// specific list of evaluations.
package integrate // import "gonum.org/v1/gonum/integrate"
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package testlapack

import (
 "fmt"
 "testing"

 "golang.org/x/exp/rand"
```

```
 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
)

type Dlarfxer interface {
 Dlarfx(side blas.Side, m, n int, v []float64, tau float64, c []float64, ldc int, work []float64)
}

func DlarfxTest(t *testing.T, impl Dlarfxer) {
 rnd := rand.New(rand.NewSource(1))
 for _, side := range []blas.Side{blas.Right, blas.Left} {
  // For m and n greater than 10 we are testing Dlarf, so avoid unnecessary work.
  for m := 1; m < 12; m++ {
   for n := 1; n < 12; n++ {
    for _, extra := range []int{0, 1, 11} {
     for cas := 0; cas < 10; cas++ {
      testDlarfx(t, impl, side, m, n, extra, rnd)
     }
    }
   }
  }
 }
}

func testDlarfx(t *testing.T, impl Dlarfxer, side blas.Side, m, n, extra int, rnd *rand.Rand) {
 const tol = 1e-13

 // Generate random
 input data.
 var v []float64
 if side == blas.Left {
  v = randomSlice(m, rnd)
 } else {
  v = randomSlice(n, rnd)
 }
 tau := rnd.NormFloat64()
 ldc := n + extra
 c := randomGeneral(m, n, ldc, rnd)

 // Compute the matrix H explicitly as H := I - tau * v * v.
 var h blas64.General
 if side == blas.Left {
  h = eye(m, m+extra)
 } else {
  h = eye(n, n+extra)
 }
 blas64.Ger(-tau, blas64.Vector{Inc: 1, Data: v}, blas64.Vector{Inc: 1, Data: v}, h)
```

```
 // Compute the product H * C or C * H explicitly.
 cWant := nanGeneral(m, n, ldc)
 if side == blas.Left {
  blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, h, c, 0, cWant)
 } else {
  blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, c, h, 0, cWant)
 }

 var work []float64
 if h.Rows > 10 {
  // Allocate work only if H has order > 10.
  if side == blas.Left {
   work = make([]float64, n)
  } else {
   work = make([]float64, m)
  }
 }

 impl.Dlarfx(side, m, n, v, tau, c.Data, c.Stride, work)

 prefix := fmt.Sprintf("Case side=%v, m=%v, n=%v, extra=%v", side,
 m, n, extra)

 // Check any invalid modifications of c.
 if !generalOutsideAllNaN(c) {
  t.Errorf("%v: out-of-range write to C\n%v", prefix, c.Data)
 }

 if !equalApproxGeneral(c, cWant, tol) {
  t.Errorf("%v: unexpected C\n%v", prefix, c.Data)
 }
}
graph {node}
// Code generated by "go generate gonum.org/v1/gonum/unit/constant; DO NOT EDIT.

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package constant

import "gonum.org/v1/gonum/unit"

// StandardGravity is the standard gravity constant (g), the nominal gravitational acceleration of an object in a
vacuum near the surface of the Earth
// The dimensions of StandardGravity are m s^-2. The constant is exact.
const StandardGravity = unit.Acceleration(9.80665)
```

```
graph{{NodeW}NodeW{NodeW{}NodeS NodeS}}
graph edl{{edn}edh edl}
graph{{SUBGRAv}SUBGRA}
graph{{Nodeh{Nodeh}Nodeh}}
graph{{DIGRAP_}{DIGRAP_}}
graph{stri_{{stri_}stri_{stri_}}}
graph{Su1{Su5{{Su1}}}}
      SUBROUTINE ZSQRT(AR, AI, BR, BI)
C***BEGIN PROLOGUE  ZSQRT
C***REFER TO  ZBESH,ZBESI,ZBESJ,ZBESK,ZBESY,ZAIRY,ZBIRY
C
C     DOUBLE PRECISION COMPLEX SQUARE ROOT, B=CSQRT(A)
C
C***ROUTINES CALLED  ZABS
C***END PROLOGUE  ZSQRT
      DOUBLE PRECISION AR, AI, BR, BI, ZM, DTHETA, DPI, DRT
      DOUBLE PRECISION ZABS

      DATA DRT , DPI / 7.0710678118654752440084436 21D-1,
     1                 3.14159265358979323846264338 3D+0/
      ZM = ZABS(CMPLX(AR,AI,kind=KIND(1.0D0)))
      ZM = DSQRT(ZM)
      IF (AR.EQ.0.0D+0) GO TO 10
      IF (AI.EQ.0.0D+0) GO TO 20
      DTHETA = DATAN(AI/AR)
      IF (DTHETA.LE.0.0D+0) GO TO 40
      IF (AR.LT.0.0D+0) DTHETA = DTHETA - DPI
      GO TO 50
   10 IF (AI.GT.0.0D+0) GO TO 60
      IF (AI.LT.0.0D+0) GO TO 70
      BR = 0.0D+0
      BI = 0.0D+0
      RETURN
   20 IF (AR.GT.0.0D+0) GO TO 30
      BR = 0.0D+0
      BI = DSQRT(DABS(AR))
      RETURN
   30 BR = DSQRT(AR)
      BI = 0.0D+0
      RETURN
   40 IF (AR.LT.0.0D+0) DTHETA = DTHETA + DPI
   50
  DTHETA = DTHETA*0.5D+0
      BR = ZM*DCOS(DTHETA)
      BI = ZM*DSIN(DTHETA)
      RETURN
   60 BR = ZM*DRT
      BI = ZM*DRT
```

```
      RETURN
   70 BR = ZM*DRT
      BI = -ZM*DRT
      RETURN
      END
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// Package vptree implements a vantage point tree. Vantage point
// trees provide an efficient search for nearest neighbors in a
// metric space.
//
// See http://pnylab.com/papers/vptree/vptree.pdf for details of vp-trees.
package vptree // import "gonum.org/v1/gonum/spatial/vptree"
// SPDX-License-Identifier: Unlicense OR MIT

// Package system contains events usually handled at the top-level
// program level.
package system

import (
 "image"
 "time"

 "gioui.org/op"
 "gioui.org/unit"
)

// A FrameEvent asks for a new frame in the form of a list of
// operations.
type FrameEvent struct {
 Config Config
 // Size is the dimensions of the window.
 Size image.Point
 // Insets is the insets to apply.
 Insets Insets
 // Frame replaces the window's frame with the new
 // frame.
 Frame func(frame *op.Ops)
 // Whether this draw is system generated and needs a complete
 // frame before proceeding.
 sync bool
}

// Config defines the essential properties of
// the environment.
type Config interface {
```

```
 // Now returns the current animation time.
 Now() time.Time

 unit.Converter
}

// DestroyEvent is the last event sent through
// a window event channel.
type DestroyEvent struct {
 // Err is nil for normal window closures. If a
 // window is prematurely closed, Err is the cause.
 Err
 error
}

// Insets is the space taken up by
// system decoration such as translucent
// system bars and software keyboards.
type Insets struct {
 Top, Bottom, Left, Right unit.Value
}

// A StageEvent is generated whenever the stage of a
// Window changes.
type StageEvent struct {
 Stage Stage
}

// CommandEvent is a system event.
type CommandEvent struct {
 Type CommandType
 // Suppress the default action of the command.
 Cancel bool
}

// Stage of a Window.
type Stage uint8

// CommandType is the type of a CommandEvent.
type CommandType uint8

const (
 // StagePaused is the Stage for inactive Windows.
 // Inactive Windows don't receive FrameEvents.
 StagePaused Stage = iota
 // StateRunning is for active Windows.
 StageRunning
)
```

```
const (
 // CommandBack is the command for a back action
 // such as the Android back button.
 CommandBack CommandType = iota
)

func (l Stage) String() string {
 switch l {
 case StagePaused:
  return "StagePaused"
 case StageRunning:
  return "StageRunning"
 default:
  panic("unexpected
 Stage value")
 }
}

func (_ FrameEvent) ImplementsEvent()    {}
func (_ StageEvent) ImplementsEvent()    {}
func (_ *CommandEvent) ImplementsEvent() {}
func (_ DestroyEvent) ImplementsEvent()  {}
graph{{{{subO:subO{subO:subO}}}}}
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package optimize

import "math"

const (
 defaultBisectionCurvature = 0.9
)

// Bisection is a Linesearcher that uses a bisection to find a point that
// satisfies the strong Wolfe conditions with the given curvature factor and
// a decrease factor of zero.
type Bisection struct {
 // CurvatureFactor is the constant factor in the curvature condition.
 // Smaller values result in a more exact line search.
 // A set value must be in the interval (0, 1), otherwise Init will panic.
 // If it is zero, it will be defaulted to 0.9.
 CurvatureFactor float64

 minStep  float64
 maxStep  float64
```

```
 currStep float64

 initF float64
 minF  float64
 maxF  float64
 lastF float64

 initGrad float64

 lastOp Operation
}

func (b *Bisection) Init(f, g float64, step float64) Operation {
 if step <= 0 {
  panic("bisection: bad step size")
 }
 if g
 >= 0 {
  panic("bisection: initial derivative is non-negative")
 }

 if b.CurvatureFactor == 0 {
  b.CurvatureFactor = defaultBisectionCurvature
 }
 if b.CurvatureFactor <= 0 || b.CurvatureFactor >= 1 {
  panic("bisection: CurvatureFactor not between 0 and 1")
 }

 b.minStep = 0
 b.maxStep = math.Inf(1)
 b.currStep = step

 b.initF = f
 b.minF = f
 b.maxF = math.NaN()

 b.initGrad = g

 // Only evaluate the gradient when necessary.
 b.lastOp = FuncEvaluation
 return b.lastOp
}

func (b *Bisection) Iterate(f, g float64) (Operation, float64, error) {
 if b.lastOp != FuncEvaluation && b.lastOp != GradEvaluation {
  panic("bisection: Init has not been called")
 }
 minF := b.initF
```

```
if b.maxF < minF {
 minF = b.maxF
}
if b.minF < minF {
 minF = b.minF
}
if b.lastOp == FuncEvaluation {
 // See if the function value is good enough to make progress. If it is,
 // evaluate the gradient. If not, set it to the upper bound if the bound
 // has not yet been found, otherwise iterate toward
the minimum location.
 if f <= minF {
  b.lastF = f
  b.lastOp = GradEvaluation
  return b.lastOp, b.currStep, nil
 }
 if math.IsInf(b.maxStep, 1) {
  b.maxStep = b.currStep
  b.maxF = f
  return b.nextStep((b.minStep + b.maxStep) / 2)
 }
 if b.minF <= b.maxF {
  b.maxStep = b.currStep
  b.maxF = f
 } else {
  b.minStep = b.currStep
  b.minF = f
 }
 return b.nextStep((b.minStep + b.maxStep) / 2)
}
f = b.lastF
// The function value was lower. Check if this location is sufficient to
// converge the linesearch, otherwise iterate.
if StrongWolfeConditionsMet(f, g, minF, b.initGrad, b.currStep, 0, b.CurvatureFactor) {
 b.lastOp = MajorIteration
 return b.lastOp, b.currStep, nil
}
if math.IsInf(b.maxStep, 1) {
 // The function value is lower. If the gradient is positive, an upper bound
 // of the minimum been found. If the gradient is negative, search farther
 // in that direction.
 if g > 0 {
  b.maxStep = b.currStep
  b.maxF = f
  return b.nextStep((b.minStep
+ b.maxStep) / 2)
 }
 b.minStep = b.currStep
```

```
  b.minF = f
  return b.nextStep(b.currStep * 2)
 }
 // The interval has been bounded, and we have found a new lowest value. Use
 // the gradient to decide which direction.
 if g < 0 {
  b.minStep = b.currStep
  b.minF = f
 } else {
  b.maxStep = b.currStep
  b.maxF = f
 }
 return b.nextStep((b.minStep + b.maxStep) / 2)
}

// nextStep checks if the new step is equal to the old step.
// This can happen if min and max are the same, or if the step size is infinity,
// both of which indicate the minimization must stop. If the steps are different,
// it sets the new step size and returns the evaluation type and the step. If the steps
// are the same, it returns an error.
func (b *Bisection) nextStep(step float64) (Operation, float64, error) {
 if b.currStep == step {
  b.lastOp = NoOperation
  return b.lastOp, b.currStep, ErrLinesearcherFailure
 }
 b.currStep = step
 b.lastOp = FuncEvaluation
 return b.lastOp, b.currStep, nil
}
Graph{{{EDGG}{EDGG}{EDGG}{EDGG}EDGG}{EDGG}}
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package gonum

import (
 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/lapack"
)

// Dgelqf computes the LQ factorization of the mn matrix A using a blocked
// algorithm. See the documentation for Dgelq2 for a description of the
// parameters at entry and exit.
//
// work is temporary storage, and lwork specifies the usable memory length.
// At minimum, lwork >= m, and this function will panic otherwise.
// Dgelqf is a blocked LQ factorization, but the block size is limited
```

```
// by the temporary space available. If lwork == -1, instead of performing Dgelqf,
// the optimal work length will be stored into work[0].
//
// tau must have length at least min(m,n), and this function will panic otherwise.
func (impl Implementation) Dgelqf(m, n int, a []float64, lda int, tau, work []float64, lwork int) {
 switch {
 case m < 0:
  panic(mLT0)
 case
 n < 0:
  panic(nLT0)
 case lda < max(1, n):
  panic(badLdA)
 case lwork < max(1, m) && lwork != -1:
  panic(badLWork)
 case len(work) < max(1, lwork):
  panic(shortWork)
 }

 k := min(m, n)
 if k == 0 {
  work[0] = 1
  return
 }

 nb := impl.Ilaenv(1, "DGELQF", " ", m, n, -1, -1)
 if lwork == -1 {
  work[0] = float64(m * nb)
  return
 }

 if len(a) < (m-1)*lda+n {
  panic(shortA)
 }
 if len(tau) < k {
  panic(shortTau)
 }

 // Find the optimal blocking size based on the size of available memory
 // and optimal machine parameters.
 nbmin := 2
 var nx int
 iws := m
 if 1 < nb && nb < k {
  nx = max(0, impl.Ilaenv(3, "DGELQF", " ", m, n, -1, -1))
  if nx < k {
   iws = m * nb
   if lwork < iws {
```

```
    nb = lwork / m
    nbmin = max(2, impl.Ilaenv(2, "DGELQF", " ", m, n, -1, -1))
   }
  }
 }
 ldwork := nb
 // Computed blocked LQ factorization.
 var i int
 if nbmin <= nb && nb < k && nx < k {
  for i = 0; i < k-nx; i += nb {
   ib := min(k-i, nb)
   impl.Dgelq2(ib, n-i, a[i*lda+i:],
 lda, tau[i:], work)
   if i+ib < m {
    impl.Dlarft(lapack.Forward, lapack.RowWise, n-i, ib,
     a[i*lda+i:], lda,
     tau[i:],
     work, ldwork)
    impl.Dlarfb(blas.Right, blas.NoTrans, lapack.Forward, lapack.RowWise,
     m-i-ib, n-i, ib,
     a[i*lda+i:], lda,
     work, ldwork,
     a[(i+ib)*lda+i:], lda,
     work[ib*ldwork:], ldwork)
   }
  }
 }
 // Perform unblocked LQ factorization on the remainder.
 if i < k {
  impl.Dgelq2(m-i, n-i, a[i*lda+i:], lda, tau[i:], work)
 }
 work[0] = float64(iws)
}
digraph {{k2450}{k2450}->9S24->7S24->5->0->2S35->6S35->3S30->1S30->3->2->T1;5->T1;5->6->T24;2->3-
>6->7->T1;2->8->1->4->T1;0->3->2->T1;1->2->T30;3->4->4->4->4->5->9->9->4->5->9->1->8->0->9->9->8->0-
>9->3->9->5->9->4->9->5->1->0->8->6->T35;5->3->2->5->9->7->T1;2->3->T35;9->T30;7->T8;3->T24;3->T1;}
graph{"\I\3\I\#"}
graph{{{{SUB{{{SUB}}SUB}}}{{{{SUB}}SUB}}{SUB{{{SUB}}SUB}}{}{SUB{{SUB}}SUB}}{SUB{{}S
UB}}{SUB{{{}}{SUB{{{}}S}}SUB{{{SUB}}SUB}}}{{{}}{}{SUB{{SUB}}SUB}}{SUB{{}S{{SUB}}SUB}
}{SUB{{{SUB}}SUB}{}{SUB{{SUB}}SUB}}{SUB{{}SUB}}{SUB{{{}}{SUB}}}{{SUB{{{}}}}}{}}}
// Derived from SciPy's special/c_misc/gammaincinv.c
// https://github.com/scipy/scipy/blob/master/scipy/special/c_misc/gammaincinv.c

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package mathext
```

```
import (
 "math"

 "gonum.org/v1/gonum/mathext/internal/cephes"
)

const (
 allowedATol = 1e-306
 allowedRTol = 1e-6
)

func gammaIncReg(x float64, params []float64) float64 {
 return cephes.Igam(params[0], x) - params[1]
}

// gammaIncRegInv is the inverse of the regularized incomplete Gamma integral. That is, it
// returns x such that:
//  Igam(a, x) = y
// The input argument a must be positive and y must be between 0 and 1
// inclusive or gammaIncRegInv will panic. gammaIncRegInv should return a
// positive number, but can return NaN if there is a failure to converge.
func gammaIncRegInv(a, y float64) float64 {
 // For y not small, we just use
 //  IgamI(a, 1-y)
 // (inverse
 of the complemented incomplete Gamma integral). For y small,
 // however, 1-y is about 1, and we lose digits.
 if a <= 0 || y <= 0 || y >= 0.25 {
  return cephes.IgamI(a, 1-y)
 }

 lo := 0.0
 flo := -y
 hi := cephes.IgamI(a, 0.75)
 fhi := 0.25 - y

 params := []float64{a, y}

 // Also, after we generate a small interval by bisection above, false
 // position will do a large step from an interval of width ~1e-4 to ~1e-14
 // in one step (a=10, x=0.05, but similar for other values).
 result, bestX, _, errEst := falsePosition(lo, hi, flo, fhi, 2*machEp, 2*machEp, 1e-2*a, gammaIncReg, params)
 if result == fSolveMaxIterations && errEst > allowedATol+allowedRTol*math.Abs(bestX) {
  bestX = math.NaN()
 }

 return bestX
```

```
}
graph{"\\\\\\\\\\phID "{""}"NewSubgraph(X[0], X[2]) >>\\\\\\\s}\\\\\\\\\\\\\\\\\\\\\\\\"}
digraph {e[e=ee]ey[l=""][l=""][l=""][l=""]ey->l[l=""]ey->n[l=""t=8]n->l[l=""]n->g[l=""]g->l[l=""]}
graph{{striN}{striN}{striN}}
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package gonum

import "gonum.org/v1/gonum/blas"

// Dpotri computes the inverse of a real symmetric positive definite matrix A
// using its Cholesky factorization.
//
// On entry, a contains the triangular factor U or L from the Cholesky
// factorization A = U*U or A = L*L, as computed by Dpotrf.
// On return, a contains the upper or lower triangle of the (symmetric)
// inverse of A, overwriting the input factor U or L.
func (impl Implementation) Dpotri(uplo blas.Uplo, n int, a []float64, lda int) (ok bool) {
 switch {
 case uplo != blas.Upper && uplo != blas.Lower:
  panic(badUplo)
 case n < 0:
  panic(nLT0)
 case lda < max(1, n):
  panic(badLdA)
 }

 // Quick return if possible.
 if n == 0 {
  return true
 }

 if len(a) < (n-1)*lda+n {
  panic(shortA)
 }

 // Invert the triangular Cholesky factor U or L.
 ok = impl.Dtrtri(uplo,
 blas.NonUnit, n, a, lda)
 if !ok {
  return false
 }

 // Form inv(U)*inv(U) or inv(L)*inv(L).
 impl.Dlauum(uplo, n, a, lda)
 return true
```

```
}
graph{{EdgU}{EdgU}{EdgW}{EdgW}}
digraph{D:_->G:_}
digraph {
 {A}
 subgraph {B}
 subgraph S {C}
}
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// license that can be found in the LICENSE file.

package mat

import (
 "testing"

 "golang.org/x/exp/rand"
)

func TestLQ(t *testing.T) {
 for _, test := range []struct {
  m, n int
 }{
  {5, 5},
  {5, 10},
 } {
  m := test.m
  n := test.n
  a := NewDense(m, n, nil)
  for i := 0; i < m; i++ {
   for j := 0; j < n; j++ {
    a.Set(i, j, rand.NormFloat64())
   }
  }
  var want Dense
  want.CloneFrom(a)

  var lq LQ
  lq.Factorize(a)
  var l, q Dense
  lq.QTo(&q)

  if !isOrthonormal(&q, 1e-10) {
   t.Errorf("Q is not orthonormal: m = %v, n = %v", m, n)
  }

  lq.LTo(&l)
```

```
 var got Dense
 got.Mul(&l, &q)
 if !EqualApprox(&got, &want, 1e-12) {
  t.Errorf("LQ does not equal original matrix. \nWant: %v\nGot: %v", want, got)
 }
}
}

func TestLQSolveTo(t *testing.T) {
 for _, trans := range []bool{false, true} {
  for _, test := range []struct {
   m, n, bc int
  }{
   {5, 5,
 1},
   {5, 10, 1},
   {5, 5, 3},
   {5, 10, 3},
  } {
   m := test.m
   n := test.n
   bc := test.bc
   a := NewDense(m, n, nil)
   for i := 0; i < m; i++ {
    for j := 0; j < n; j++ {
     a.Set(i, j, rand.Float64())
    }
   }
   br := m
   if trans {
    br = n
   }
   b := NewDense(br, bc, nil)
   for i := 0; i < br; i++ {
    for j := 0; j < bc; j++ {
     b.Set(i, j, rand.Float64())
    }
   }
   var x Dense
   lq := &LQ{}
   lq.Factorize(a)
   lq.SolveTo(&x, trans, b)

   // Test that the normal equations hold.
   // A * A * x = A * b if !trans
   // A * A * x = A * b if trans
   var lhs Dense
```

```
  var rhs Dense
  if trans {
   var tmp Dense
   tmp.Mul(a, a.T())
   lhs.Mul(&tmp, &x)
   rhs.Mul(a, b)
  } else {
   var tmp Dense
   tmp.Mul(a.T(), a)
   lhs.Mul(&tmp, &x)
   rhs.Mul(a.T(), b)
  }
  if !EqualApprox(&lhs, &rhs, 1e-10) {
   t.Errorf("Normal equations do not hold.\nLHS: %v\n, RHS: %v\n", lhs, rhs)
  }
 }
}
// TODO(btracey): Add in testOneInput when it exists.
}

func
 TestLQSolveToVec(t *testing.T) {
 for _, trans := range []bool{false, true} {
  for _, test := range []struct {
   m, n int
  }{
   {5, 5},
   {5, 10},
  } {
   m := test.m
   n := test.n
   a := NewDense(m, n, nil)
   for i := 0; i < m; i++ {
    for j := 0; j < n; j++ {
     a.Set(i, j, rand.Float64())
    }
   }
   br := m
   if trans {
    br = n
   }
   b := NewVecDense(br, nil)
   for i := 0; i < br; i++ {
    b.SetVec(i, rand.Float64())
   }
   var x VecDense
   lq := &LQ{}
   lq.Factorize(a)
```

```
  lq.SolveVecTo(&x, trans, b)

  // Test that the normal equations hold.
  // A * A * x = A * b if !trans
  // A * A * x = A * b if trans
  var lhs Dense
  var rhs Dense
  if trans {
   var tmp Dense
   tmp.Mul(a, a.T())
   lhs.Mul(&tmp, &x)
   rhs.Mul(a, b)
  } else {
   var tmp Dense
   tmp.Mul(a.T(), a)
   lhs.Mul(&tmp, &x)
   rhs.Mul(a.T(), b)
  }
  if !EqualApprox(&lhs, &rhs, 1e-10) {
   t.Errorf("Normal equations do not hold.\nLHS: %v\n, RHS: %v\n", lhs,
 rhs)
  }
 }
}
// TODO(btracey): Add in testOneInput when it exists.
}

func TestLQSolveToCond(t *testing.T) {
 for _, test := range []*Dense{
  NewDense(2, 2, []float64{1, 0, 0, 1e-20}),
  NewDense(2, 3, []float64{1, 0, 0, 0, 1e-20, 0}),
 } {
  m, _ := test.Dims()
  var lq LQ
  lq.Factorize(test)
  b := NewDense(m, 2, nil)
  var x Dense
  if err := lq.SolveTo(&x, false, b); err == nil {
   t.Error("No error for near-singular matrix in matrix solve.")
  }

  bvec := NewVecDense(m, nil)
  var xvec VecDense
  if err := lq.SolveVecTo(&xvec, false, bvec); err == nil {
   t.Error("No error for near-singular matrix in matrix solve.")
  }
 }
}
```

```
graph{{{gr }grap}gr}
graph{{{{{{{E4{E4}E4}E4}E4}E4}{E4{E4}E4}E4}E4}E4}
graph{diGrap}
graph{subGra_}
// Copyright 2016 The Gonum Authors. All rights reserved.
// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

package testlapack

import (
 "fmt"
 "math"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
)

type Dgehd2er interface {
 Dgehd2(n, ilo, ihi int, a []float64, lda int, tau, work []float64)
}

func Dgehd2Test(t *testing.T, impl Dgehd2er) {
 rnd := rand.New(rand.NewSource(1))
 for _, n := range []int{1, 2, 3, 4, 5, 7, 10, 30} {
  for _, extra := range []int{0, 1, 13} {
   for cas := 0; cas < 100; cas++ {
    testDgehd2(t, impl, n, extra, rnd)
   }
  }
 }
}

func testDgehd2(t *testing.T, impl Dgehd2er, n, extra int, rnd *rand.Rand) {
 ilo := rnd.Intn(n)
 ihi := rnd.Intn(n)
 if ilo > ihi {
  ilo, ihi = ihi, ilo
 }

 tau := nanSlice(n - 1)
 work := nanSlice(n)

 a := randomGeneral(n, n, n+extra, rnd)
 // NaN out elements under the diagonal except
```

```
// for the [ilo:ihi,ilo:ihi] block.
for
i := 1; i <= ihi; i++ {
 for j := 0; j < min(ilo, i); j++ {
  a.Data[i*a.Stride+j] = math.NaN()
 }
}
for i := ihi + 1; i < n; i++ {
 for j := 0; j < i; j++ {
  a.Data[i*a.Stride+j] = math.NaN()
 }
}
aCopy := a
aCopy.Data = make([]float64, len(a.Data))
copy(aCopy.Data, a.Data)

impl.Dgehd2(n, ilo, ihi, a.Data, a.Stride, tau, work)

prefix := fmt.Sprintf("Case n=%v, ilo=%v, ihi=%v, extra=%v", n, ilo, ihi, extra)

// Check any invalid modifications of a.
if !generalOutsideAllNaN(a) {
 t.Errorf("%v: out-of-range write to A\n%v", prefix, a.Data)
}
for i := ilo; i <= ihi; i++ {
 for j := 0; j < min(ilo, i); j++ {
  if !math.IsNaN(a.Data[i*a.Stride+j]) {
   t.Errorf("%v: expected NaN at A[%v,%v]", prefix, i, j)
  }
 }
}
for i := ihi + 1; i < n; i++ {
 for j := 0; j < i; j++ {
  if !math.IsNaN(a.Data[i*a.Stride+j]) {
   t.Errorf("%v: expected NaN at A[%v,%v]", prefix, i, j)
  }
 }
}
for i := 0; i <= ilo; i++ {
 for j := i; j < ilo+1; j++ {
  if a.Data[i*a.Stride+j]
!= aCopy.Data[i*aCopy.Stride+j] {
   t.Errorf("%v: unexpected modification at A[%v,%v]", prefix, i, j)
  }
 }
 for j := ihi + 1; j < n; j++ {
  if a.Data[i*a.Stride+j] != aCopy.Data[i*aCopy.Stride+j] {
   t.Errorf("%v: unexpected modification at A[%v,%v]", prefix, i, j)
```

```
  }
 }
}
for i := ihi + 1; i < n; i++ {
 for j := i; j < n; j++ {
  if a.Data[i*a.Stride+j] != aCopy.Data[i*aCopy.Stride+j] {
   t.Errorf("%v: unexpected modification at A[%v,%v]", prefix, i, j)
  }
 }
}

// Check that tau has been assigned properly.
for i, v := range tau {
 if i < ilo || i >= ihi {
  if !math.IsNaN(v) {
   t.Errorf("%v: expected NaN at tau[%v]", prefix, i)
  }
 } else {
  if math.IsNaN(v) {
   t.Errorf("%v: unexpected NaN at tau[%v]", prefix, i)
  }
 }
}

// Extract Q and check that it is orthogonal.
q := blas64.General{
 Rows:   n,
 Cols:   n,
 Stride: n,
 Data:   make([]float64, n*n),
}
for i := 0; i < q.Rows; i++ {
 q.Data[i*q.Stride+i] = 1
}
qCopy
:= q
qCopy.Data = make([]float64, len(q.Data))
for j := ilo; j < ihi; j++ {
 h := blas64.General{
  Rows:   n,
  Cols:   n,
  Stride: n,
  Data:   make([]float64, n*n),
 }
 for i := 0; i < h.Rows; i++ {
  h.Data[i*h.Stride+i] = 1
 }
 v := blas64.Vector{
```

```
  Inc:  1,
  Data: make([]float64, n),
 }
 v.Data[j+1] = 1
 for i := j + 2; i < ihi+1; i++ {
  v.Data[i] = a.Data[i*a.Stride+j]
 }
 blas64.Ger(-tau[j], v, v, h)
 copy(qCopy.Data, q.Data)
 blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, qCopy, h, 0, q)
}
if !isOrthogonal(q) {
 t.Errorf("%v: Q is not orthogonal\nQ=%v", prefix, q)
}

// Overwrite NaN elements of aCopy with zeros
// (we will multiply with it below).
for i := 1; i <= ihi; i++ {
 for j := 0; j < min(ilo, i); j++ {
  aCopy.Data[i*aCopy.Stride+j] = 0
 }
}
for i := ihi + 1; i < n; i++ {
 for j := 0; j < i; j++ {
  aCopy.Data[i*aCopy.Stride+j] = 0
 }
}

// Construct Q * AOrig * Q and check that it is
// equal to A from Dgehd2.
aq := blas64.General{
 Rows:
  n,
 Cols:   n,
 Stride: n,
 Data:   make([]float64, n*n),
}
blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, aCopy, q, 0, aq)
qaq := blas64.General{
 Rows:   n,
 Cols:   n,
 Stride: n,
 Data:   make([]float64, n*n),
}
blas64.Gemm(blas.Trans, blas.NoTrans, 1, q, aq, 0, qaq)
for i := ilo; i <= ihi; i++ {
 for j := ilo; j <= ihi; j++ {
  qaqij := qaq.Data[i*qaq.Stride+j]
```

```
   if j < i-1 {
    if math.Abs(qaqij) > 1e-14 {
     t.Errorf("%v: Q*A*Q is not upper Hessenberg, [%v,%v]=%v", prefix, i, j, qaqij)
    }
    continue
   }
   diff := qaqij - a.Data[i*a.Stride+j]
   if math.Abs(diff) > 1e-14 {
    t.Errorf("%v: Q*AOrig*Q and A are not equal, diff at [%v,%v]=%v", prefix, i, j, diff)
   }
  }
 }
}
graph{{{{Gr4{Gr4}}}Gr8}}
Graph{{Subgr{Subgr}{Subgr}}Subgr}
graph{_____________}
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// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

package testlapack

import (
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
)

type Dgetrier interface {
 Dgetrfer
 Dgetri(n int, a []float64, lda int, ipiv []int, work []float64, lwork int) bool
}

func DgetriTest(t *testing.T, impl Dgetrier) {
 const tol = 1e-13
 rnd := rand.New(rand.NewSource(1))
 bi := blas64.Implementation()
 for _, test := range []struct {
  n, lda int
 }{
  {5, 0},
  {5, 8},
  {45, 0},
  {45, 50},
  {63, 70},
```

```
 {64, 70},
 {65, 0},
 {65, 70},
 {66, 70},
 {150, 0},
 {150, 250},
} {
 n := test.n
 lda := test.lda
 if lda == 0 {
  lda = n
 }
 // Generate a random well conditioned matrix
 perm := rnd.Perm(n)
 a := make([]float64, n*lda)
 for i := 0; i < n; i++ {
  a[i*lda+perm[i]] = 1
 }
 for i := range a {
  a[i] += 0.01 * rnd.Float64()
 }
 aCopy
:= make([]float64, len(a))
 copy(aCopy, a)
 ipiv := make([]int, n)
 // Compute LU decomposition.
 impl.Dgetrf(n, n, a, lda, ipiv)
 // Test with various workspace sizes.
 for _, wl := range []worklen{minimumWork, mediumWork, optimumWork} {
  ainv := make([]float64, len(a))
  copy(ainv, a)

  var lwork int
  switch wl {
  case minimumWork:
   lwork = max(1, n)
  case mediumWork:
   work := make([]float64, 1)
   impl.Dgetri(n, ainv, lda, ipiv, work, -1)
   lwork = max(int(work[0])-2*n, n)
  case optimumWork:
   work := make([]float64, 1)
   impl.Dgetri(n, ainv, lda, ipiv, work, -1)
   lwork = int(work[0])
  }
  work := make([]float64, lwork)

  // Compute inverse.
```

```
  ok := impl.Dgetri(n, ainv, lda, ipiv, work, lwork)
  if !ok {
   t.Errorf("Unexpected singular matrix.")
  }

  // Check that A(inv) * A = I.
  ans := make([]float64, len(ainv))
  bi.Dgemm(blas.NoTrans, blas.NoTrans, n, n, n, 1, aCopy, lda, ainv, lda, 0, ans, lda)
  // The tolerance is
 so high because computing matrix inverses is very unstable.
  dist := distFromIdentity(n, ans, lda)
  if dist > tol {
   t.Errorf("|Inv(A) * A - I|_inf = %v is too large. n = %v, lda = %v", dist, n, lda)
  }
 }
}
}
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// license that can be found in the LICENSE file.

package barneshut_test

import (
 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/spatial/barneshut"
 "gonum.org/v1/gonum/spatial/r2"
)

type mass struct {
 d r2.Vec
 v r2.Vec
 m float64
}

func (m *mass) Coord2() r2.Vec { return m.d }
func (m *mass) Mass() float64  { return m.m }
func (m *mass) move(f r2.Vec) {
 m.v = m.v.Add(f.Scale(1 / m.m))
 m.d = m.d.Add(m.v)
}

func Example_galaxy() {
 rnd := rand.New(rand.NewSource(1))

 // Make 1000 stars in random locations.
 stars := make([]*mass, 1000)
```

```
p := make([]barneshut.Particle2, len(stars))
for i := range stars {
 s := &mass{
  d: r2.Vec{
   X: 100 * rnd.Float64(),
   Y: 100 * rnd.Float64(),
  },
  v: r2.Vec{
   X: rnd.NormFloat64(),
   Y: rnd.NormFloat64(),
  },
  m: 10 * rnd.Float64(),
 }
 stars[i] = s
 p[i] = s
}
vectors := make([]r2.Vec, len(stars))

// Make
a plane to calculate approximate forces
plane := barneshut.Plane{Particles: p}

// Run a simulation for 100 updates.
for i := 0; i < 1000; i++ {
 // Build the data structure. For small systems
 // this step may be omitted and ForceOn will
 // perform the naive quadratic calculation
 // without building the data structure.
 plane.Reset()

 // Calculate the force vectors using the theta
 // parameter...
 const theta = 0.5
 // and an imaginary gravitational constant.
 const G = 10
 for j, s := range stars {
  vectors[j] = plane.ForceOn(s, theta, barneshut.Gravity2).Scale(G)
 }

 // Update positions.
 for j, s := range stars {
  s.move(vectors[j])
 }

 // Rendering stars is left as an exercise for
 // the reader.
}
}
```

```
graph{{DIGR}DIGR{{DIGR}DIGR{DIGR}}}
graph{{{grap5}grap5}}
graph{subg{subg}}
graph{{SUBd{SUBo{SUBo}{SUBo}SUBo}{SUBo}SUBo}{SUBo}{SUBo}}
graph{{{Digrap}Digrap}}
graph{st{{st}st{{st}st}{st}st}{st}st}
graph{{diGra}}
graph{DI}
// SPDX-License-Identifier: Unlicense OR MIT

package widget

import (
 "fmt"
 "io"
 "strings"
 "unicode/utf8"
)

const bufferDebug = false

// editBuffer implements a gap buffer for text editing.
type editBuffer struct {
 // caret is the caret position in bytes.
 caret int
 // pos is the byte position for Read and ReadRune.
 pos int

 // The gap start and end in bytes.
 gapstart, gapend int
 text            []byte

 // changed tracks whether the buffer content
 // has changed since the last call to Changed.
 changed bool
}

const minSpace = 5

func (e *editBuffer) Changed() bool {
 c := e.changed
 e.changed = false
 return c
}

func (e *editBuffer) deleteRunes(runes int) {
 e.moveGap(0)
 for ; runes < 0 && e.gapstart > 0; runes++ {
```

```
 _, s := utf8.DecodeLastRune(e.text[:e.gapstart])
 e.gapstart -= s
 e.caret -= s
 e.changed = e.changed || s > 0
 }
 for ; runes > 0 && e.gapend < len(e.text); runes-- {
 _, s := utf8.DecodeRune(e.text[e.gapend:])
 e.gapend += s
 e.changed = e.changed
 || s > 0
 }
 e.dump()
}

// moveGap moves the gap to the caret position. After returning,
// the gap is guaranteed to be at least space bytes long.
func (e *editBuffer) moveGap(space int) {
 if e.gapLen() < space {
  if space < minSpace {
   space = minSpace
  }
  txt := make([]byte, e.len()+space)
  // Expand to capacity.
  txt = txt[:cap(txt)]
  gaplen := len(txt) - e.len()
  if e.caret > e.gapstart {
   copy(txt, e.text[:e.gapstart])
   copy(txt[e.caret+gaplen:], e.text[e.caret:])
   copy(txt[e.gapstart:], e.text[e.gapend:e.caret+e.gapLen()])
  } else {
   copy(txt, e.text[:e.caret])
   copy(txt[e.gapstart+gaplen:], e.text[e.gapend:])
   copy(txt[e.caret+gaplen:], e.text[e.caret:e.gapstart])
  }
  e.text = txt
  e.gapstart = e.caret
  e.gapend = e.gapstart + gaplen
 } else {
  if e.caret > e.gapstart {
   copy(e.text[e.gapstart:], e.text[e.gapend:e.caret+e.gapLen()])
  } else {
   copy(e.text[e.caret+e.gapLen():], e.text[e.caret:e.gapstart])
  }
  l := e.gapLen()
  e.gapstart = e.caret
  e.gapend
 = e.gapstart + l
 }
```

```
 e.dump()
}

func (e *editBuffer) len() int {
 return len(e.text) - e.gapLen()
}

func (e *editBuffer) gapLen() int {
 return e.gapend - e.gapstart
}

func (e *editBuffer) Read(p []byte) (int, error) {
 if e.pos == e.len() {
  return 0, io.EOF
 }
 var n int
 if e.pos < e.gapstart {
  n += copy(p, e.text[e.pos:e.gapstart])
  p = p[n:]
 }
 n += copy(p, e.text[e.gapend:])
 e.pos += n
 return n, nil
}

func (e *editBuffer) ReadRune() (rune, int, error) {
 if e.pos == e.len() {
  return 0, 0, io.EOF
 }
 r, s := e.runeAt(e.pos)
 e.pos += s
 return r, s, nil
}

func (e *editBuffer) String() string {
 var b strings.Builder
 b.Grow(e.len())
 b.Write(e.text[:e.gapstart])
 b.Write(e.text[e.gapend:])
 return b.String()
}

func (e *editBuffer) prepend(s string) {
 e.moveGap(len(s))
 copy(e.text[e.caret:], s)
 e.gapstart += len(s)
 e.changed = e.changed || len(s) > 0
 e.dump()
```

```
}

func (e *editBuffer) dump() {
 if bufferDebug {
  fmt.Printf("len(e.text) %d e.len()
 %d e.gapstart %d e.gapend %d e.caret %d txt:\n'%+x'<-%d->'%+x'\n", len(e.text), e.len(), e.gapstart, e.gapend,
e.caret, e.text[:e.gapstart], e.gapLen(), e.text[e.gapend:])
 }
}

func (e *editBuffer) move(runes int) {
 for ; runes < 0 && e.caret > 0; runes++ {
  _, s := e.runeBefore(e.caret)
  e.caret -= s
 }
 for ; runes > 0 && e.caret < len(e.text); runes-- {
  _, s := e.runeAt(e.caret)
  e.caret += s
 }
 e.dump()
}

func (e *editBuffer) runeBefore(idx int) (rune, int) {
 if idx > e.gapstart {
  idx += e.gapLen()
 }
 return utf8.DecodeLastRune(e.text[:idx])
}

func (e *editBuffer) runeAt(idx int) (rune, int) {
 if idx >= e.gapstart {
  idx += e.gapLen()
 }
 return utf8.DecodeRune(e.text[idx:])
}
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// license that can be found in the LICENSE file.

package gonum

import (
 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/lapack"
)

// Dgerqf computes an RQ factorization of the mn matrix A,
//  A = R * Q.
```

```
// On exit, if m <= n, the upper triangle of the subarray
// A[0:m, n-m:n] contains the mm upper triangular matrix R.
// If m >= n, the elements on and above the (m-n)-th subdiagonal
// contain the mn upper trapezoidal matrix R.
// The remaining elements, with tau, represent the
// orthogonal matrix Q as a product of min(m,n) elementary
// reflectors.
//
// The matrix Q is represented as a product of elementary reflectors
//  Q = H_0 H_1 . . . H_{min(m,n)-1}.
// Each H(i) has the form
//  H_i = I - tau_i * v * v
// where v is a vector with v[0:n-k+i-1] stored in A[m-k+i, 0:n-k+i-1],
// v[n-k+i:n] = 0 and v[n-k+i] = 1.
//
// tau must have length min(m,n), work must have length
 max(1, lwork),
// and lwork must be -1 or at least max(1, m), otherwise Dgerqf will panic.
// On exit, work[0] will contain the optimal length for work.
//
// Dgerqf is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dgerqf(m, n int, a []float64, lda int, tau, work []float64, lwork int) {
 switch {
 case m < 0:
  panic(mLT0)
 case n < 0:
  panic(nLT0)
 case lda < max(1, n):
  panic(badLdA)
 case lwork < max(1, m) && lwork != -1:
  panic(badLWork)
 case len(work) < max(1, lwork):
  panic(shortWork)
 }

 // Quick return if possible.
 k := min(m, n)
 if k == 0 {
  work[0] = 1
  return
 }

 nb := impl.Ilaenv(1, "DGERQF", " ", m, n, -1, -1)
 if lwork == -1 {
  work[0] = float64(m * nb)
  return
 }
```

```
if len(a) < (m-1)*lda+n {
 panic(shortA)
}
if len(tau) != k {
 panic(badLenTau)
}

nbmin := 2
nx := 1
iws := m
var ldwork int
if 1 < nb && nb < k {
 // Determine when to cross over from blocked to unblocked code.
 nx = max(0, impl.Ilaenv(3, "DGERQF",
" ", m, n, -1, -1))
 if nx < k {
  // Determine whether workspace is large enough for blocked code.
  iws = m * nb
  if lwork < iws {
   // Not enough workspace to use optimal nb. Reduce
   // nb and determine the minimum value of nb.
   nb = lwork / m
   nbmin = max(2, impl.Ilaenv(2, "DGERQF", " ", m, n, -1, -1))
  }
  ldwork = nb
 }
}

var mu, nu int
if nbmin <= nb && nb < k && nx < k {
 // Use blocked code initially.
 // The last kk rows are handled by the block method.
 ki := ((k - nx - 1) / nb) * nb
 kk := min(k, ki+nb)

 var i int
 for i = k - kk + ki; i >= k-kk; i -= nb {
  ib := min(k-i, nb)

  // Compute the RQ factorization of the current block
  // A[m-k+i:m-k+i+ib-1, 0:n-k+i+ib-1].
  impl.Dgerq2(ib, n-k+i+ib, a[(m-k+i)*lda:], lda, tau[i:], work)
  if m-k+i > 0 {
   // Form the triangular factor of the block reflector
   // H = H_{i+ib-1} . . . H_{i+1} H_i.
   impl.Dlarft(lapack.Backward, lapack.RowWise,
    n-k+i+ib, ib, a[(m-k+i)*lda:],
```

```
 lda, tau[i:],
     work, ldwork)

    // Apply H to A[0:m-k+i-1, 0:n-k+i+ib-1] from the right.
    impl.Dlarfb(blas.Right, blas.NoTrans, lapack.Backward, lapack.RowWise,
     m-k+i, n-k+i+ib, ib, a[(m-k+i)*lda:], lda,
     work, ldwork,
     a, lda,
     work[ib*ldwork:], ldwork)
   }
  }
  mu = m - k + i + nb
  nu = n - k + i + nb
 } else {
  mu = m
  nu = n
 }

 // Use unblocked code to factor the last or only block.
 if mu > 0 && nu > 0 {
  impl.Dgerq2(mu, nu, a, lda, tau, work)
 }
 work[0] = float64(iws)
}
graph{{{DiG2{DiG2}}DiG2}}
graph{strA}
graph{{{SUB{SUB}}SUB}}
graph{diGra{diGra}{diGra}diGra}
graph{""{"""""""}"""""}
graph{{G7{G7}G9}G9}
graph{{subGrap_}}
//** github.com/maskimko/3ff@v0.1 **///

{{Types "Apache-2.0"}}

This program is Licensed by Apache v2  license http://www.apache.org/licenses/LICENSE-2.0
graph{"a"}
graph{{{{Nodeh{Nodeh}Nodeh}Nodeh}Nodeh{{{Nodeh}Nodeh}Nodeh}Nodeh}}
// Copyright 2015 The Gonum Authors. All rights reserved.
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// license that can be found in the LICENSE file.

// +build !amd64 noasm appengine safe

package f64

// AxpyUnitary is
//  for i, v := range x {
```

```
//   y[i] += alpha * v
//  }
func AxpyUnitary(alpha float64, x, y []float64) {
 for i, v := range x {
  y[i] += alpha * v
 }
}

// AxpyUnitaryTo is
//  for i, v := range x {
//   dst[i] = alpha*v + y[i]
//  }
func AxpyUnitaryTo(dst []float64, alpha float64, x, y []float64) {
 for i, v := range x {
  dst[i] = alpha*v + y[i]
 }
}

// AxpyInc is
//  for i := 0; i < int(n); i++ {
//   y[iy] += alpha * x[ix]
//   ix += incX
//   iy += incY
//  }
func AxpyInc(alpha float64, x, y []float64, n, incX, incY, ix, iy uintptr) {
 for i := 0; i < int(n); i++ {
  y[iy] += alpha * x[ix]
  ix += incX
  iy += incY
 }
}

// AxpyIncTo is
//  for i := 0; i < int(n); i++ {
//   dst[idst] = alpha*x[ix] + y[iy]
//   ix += incX
//   iy += incY
//   idst +=
 incDst
//  }
func AxpyIncTo(dst []float64, incDst, idst uintptr, alpha float64, x, y []float64, n, incX, incY, ix, iy uintptr) {
 for i := 0; i < int(n); i++ {
  dst[idst] = alpha*x[ix] + y[iy]
  ix += incX
  iy += incY
  idst += incDst
 }
}
```

```
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// license that can be found in the LICENSE file.

package testlapack

import (
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
 "gonum.org/v1/gonum/floats"
)

type Dorm2rer interface {
 Dgeqrfer
 Dorm2r(side blas.Side, trans blas.Transpose, m, n, k int, a []float64, lda int, tau, c []float64, ldc int, work []float64)
}

func Dorm2rTest(t *testing.T, impl Dorm2rer) {
 rnd := rand.New(rand.NewSource(1))
 for _, side := range []blas.Side{blas.Left, blas.Right} {
  for _, trans := range []blas.Transpose{blas.NoTrans, blas.Trans} {
   for _, test := range []struct {
    common, adim, cdim, lda, ldc int
   }{
    {3, 4, 5, 0, 0},
    {3, 5, 4, 0, 0},
    {4, 3, 5, 0, 0},
    {4, 5, 3, 0, 0},
    {5, 3, 4, 0, 0},
    {5, 4, 3, 0, 0},
    {3, 4, 5, 6, 20},
    {3, 5, 4, 6, 20},
    {4, 3, 5, 6, 20},
    {4, 5, 3, 6, 20},
    {5, 3, 4,
 6, 20},
    {5, 4, 3, 6, 20},
    {3, 4, 5, 20, 6},
    {3, 5, 4, 20, 6},
    {4, 3, 5, 20, 6},
    {4, 5, 3, 20, 6},
    {5, 3, 4, 20, 6},
    {5, 4, 3, 20, 6},
   } {
```

```
var ma, na, mc, nc int
if side == blas.Left {
 ma = test.common
 na = test.adim
 mc = test.common
 nc = test.cdim
} else {
 ma = test.common
 na = test.adim
 mc = test.cdim
 nc = test.common
}

// Generate a random matrix
lda := test.lda
if lda == 0 {
 lda = na
}
a := make([]float64, ma*lda)
for i := range a {
 a[i] = rnd.Float64()
}
ldc := test.ldc
if ldc == 0 {
 ldc = nc
}
// Compute random C matrix
c := make([]float64, mc*ldc)
for i := range c {
 c[i] = rnd.Float64()
}

// Compute QR
k := min(ma, na)
tau := make([]float64, k)
work := make([]float64, 1)
impl.Dgeqrf(ma, na, a, lda, tau, work, -1)
work = make([]float64, int(work[0]))
impl.Dgeqrf(ma, na, a, lda, tau, work,
len(work))

// Build Q from result
q := constructQ("QR", ma, na, a, lda, tau)

cMat := blas64.General{
 Rows:   mc,
 Cols:   nc,
 Stride: ldc,
```

```
    Data:   make([]float64, len(c)),
   }
   copy(cMat.Data, c)
   cMatCopy := blas64.General{
    Rows:   cMat.Rows,
    Cols:   cMat.Cols,
    Stride: cMat.Stride,
    Data:   make([]float64, len(cMat.Data)),
   }
   copy(cMatCopy.Data, cMat.Data)
   switch {
   default:
    panic("bad test")
   case side == blas.Left && trans == blas.NoTrans:
    blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, q, cMatCopy, 0, cMat)
   case side == blas.Left && trans == blas.Trans:
    blas64.Gemm(blas.Trans, blas.NoTrans, 1, q, cMatCopy, 0, cMat)
   case side == blas.Right && trans == blas.NoTrans:
    blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, cMatCopy, q, 0, cMat)
   case side == blas.Right && trans == blas.Trans:
    blas64.Gemm(blas.NoTrans, blas.Trans, 1, cMatCopy, q, 0, cMat)
   }
   // Do Dorm2r ard compare
   if
side == blas.Left {
    work = make([]float64, nc)
   } else {
    work = make([]float64, mc)
   }
   aCopy := make([]float64, len(a))
   copy(aCopy, a)
   tauCopy := make([]float64, len(tau))
   copy(tauCopy, tau)
   impl.Dorm2r(side, trans, mc, nc, k, a, lda, tau, c, ldc, work)
   if !floats.Equal(a, aCopy) {
    t.Errorf("a changed in call")
   }
   if !floats.Equal(tau, tauCopy) {
    t.Errorf("tau changed in call")
   }
   if !floats.EqualApprox(cMat.Data, c, 1e-14) {
    t.Errorf("Multiplication mismatch.\n Want %v \n got %v.", cMat.Data, c)
   }
  }
 }
}
}
```

graph{Stra-9Stra}
graph{no{no{no}no{no}}no}
graph{"\Z"{"\Z"}"\Z\Z\Z"{"\r"}"\Z\Z\Z"}
package window

var PlatformHandle *Handle

type Handle struct {
 // JVM is the JNI *JVM pointer.
 JVM uintptr
 // Context is a global reference to the application's
 // android.content.Context instance.
 Context uintptr
}
graph{{StricW{StricW}}StricP}
graph{edg{{edg{edg{edg}ed{edg}edg}edg{ed}ed{edg}edg}edg{edg}edg{edg}ed{edg}edg}edg{edg}}
// Copyright 2017 The Gonum Authors. All rights reserved.
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// license that can be found in the LICENSE file.

// Package f32 provides float32 vector primitives.
package f32 // import "gonum.org/v1/gonum/internal/asm/f32"
graph{{Dib{Dib}Dia{Dib}Dia}Dia}
graph{{subgrap_}{subgrap_}{subgrap_}{}{subgrap_}{subgrap_}{subgrap_}{subgrap_}{subgrap_}{subgrap_}{}}
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// +build !bounds

package barneshut

const checkBounds = false
graph{{e_{{e_{e_}}e_}}}
graph{{subgrap_}{subgrap_}{subgrap_}}
// Derived from SciPy's special/cephes/unity.c
// https://github.com/scipy/scipy/blob/master/scipy/special/cephes/unity.c
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package cephes

import "math"

```
// Relative error approximations for function arguments near unity.
//  log1p(x) = log(1+x)
//  expm1(x) = exp(x) - 1
//  cosm1(x) = cos(x) - 1
//  lgam1p(x) = lgam(1+x)

const (
 invSqrt2 = 1 / math.Sqrt2
 pi4      = math.Pi / 4
 euler    = 0.577215664901532860606512090082402431 // Euler constant
)

// Coefficients for
//  log(1+x) = x - \frac{x^2}{2} + \frac{x^3 lP(x)}{lQ(x)}
// for
//  \frac{1}{\sqrt{2}} <= x < \sqrt{2}
// Theoretical peak relative error = 2.32e-20
var lP = [...]float64{
 4.527000086244519963521 5e-5,
 4.985410282319337597221 2e-1,
 6.578732594206104484696 9e0,
 2.991191932855307327737 5e1,
 6.094966798098778705755 6e1,
 5.711296359058553810333 6e1,
 2.003955349920128125964 8e1,
}

var
 lQ = [...]float64{
 1.506290908346919204316 7e1,
 8.304756596796720946943 4e1,
 2.217623982373285646539 4e2,
 3.090987222531205977493 8e2,
 2.164278861449594768500 3e2,
 6.011866049760384391930 6e1,
}

// log1p computes
//  log(1 + x)
func log1p(x float64) float64 {
 z := 1 + x
 if z < invSqrt2 || z > math.Sqrt2 {
  return math.Log(z)
 }
 z = x * x
 z = -0.5*z + x*(z*polevl(x, lP[:], 6)/p1evl(x, lQ[:], 6))
 return x + z
}
```

```
// log1pmx computes
//  log(1 + x) - x
func log1pmx(x float64) float64 {
 if math.Abs(x) < 0.5 {
  xfac := x
  res := 0.0

  var term float64
  for n := 2; n < maxIter; n++ {
   xfac *= -x
   term = xfac / float64(n)
   res += term
   if math.Abs(term) < machEp*math.Abs(res) {
    break
   }
  }
  return res
 }
 return log1p(x) - x
}

// Coefficients for
//  e^x = 1 + \frac{2x eP(x^2)}{eQ(x^2) - eP(x^2)}
// for
//  -0.5
 <= x <= 0.5
var eP = [...]float64{
 1.2617719307481059087798e-4,
 3.0299440770744196129956e-2,
 9.9999999999999999991025e-1,
}

var eQ = [...]float64{
 3.0019850513866445504159e-6,
 2.5244834034968410419224e-3,
 2.2726554820815502876593e-1,
 2.0000000000000000000897e0,
}

// expm1 computes
//  expm1(x) = e^x - 1
func expm1(x float64) float64 {
 if math.IsInf(x, 0) {
  if math.IsNaN(x) || x > 0 {
   return x
  }
  return -1
```

```
 }
 if x < -0.5 || x > 0.5 {
  return math.Exp(x) - 1
 }
 xx := x * x
 r := x * polevl(xx, eP[:], 2)
 r = r / (polevl(xx, eQ[:], 3) - r)
 return r + r
}

var coscof = [...]float64{
 4.737750796424620469168 5e-14,
 -1.1470284843425359765671e-11,
 2.0876754287081521758361e-9,
 -2.7557319214999787979814e-7,
 2.4801587301570552304991e-5,
 -1.3888888888888872993737e-3,
 4.1666666666666666609054e-2,
}

// cosm1 computes
//  cosm1(x) = cos(x) - 1
func cosm1(x float64) float64 {
 if x < -pi4 || x > pi4 {
  return math.Cos(x) - 1
 }
 xx := x * x
 xx = -0.5*xx + xx*xx*polevl(xx,
 coscof[:], 6)
 return xx
}

// lgam1pTayler computes
//  lgam(x + 1)
//around x = 0 using its Taylor series.
func lgam1pTaylor(x float64) float64 {
 if x == 0 {
  return 0
 }
 res := -euler * x
 xfac := -x
 for n := 2; n < 42; n++ {
  nf := float64(n)
  xfac *= -x
  coeff := Zeta(nf, 1) * xfac / nf
  res += coeff
  if math.Abs(coeff) < machEp*math.Abs(res) {
   break
```

```
  }
 }

 return res
}

// lgam1p computes
//  lgam(x + 1)
func lgam1p(x float64) float64 {
 if math.Abs(x) <= 0.5 {
  return lgam1pTaylor(x)
 } else if math.Abs(x-1) < 0.5 {
  return math.Log(x) + lgam1pTaylor(x-1)
 }
 return lgam(x + 1)
}
graph{EDA}
// Copyright 2015 The Gonum Authors. All rights reserved.
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// license that can be found in the LICENSE file.

package path

import (
 "math"
 "reflect"
 "sort"
 "testing"

 "gonum.org/v1/gonum/graph"
 "gonum.org/v1/gonum/graph/internal/ordered"
 "gonum.org/v1/gonum/graph/path/internal/testgraphs"
)

func TestFloydWarshall(t *testing.T) {
 for _, test := range testgraphs.ShortestPathTests {
  g := test.Graph()
  for _, e := range test.Edges {
   g.SetWeightedEdge(e)
  }

  pt, ok := FloydWarshall(g.(graph.Graph))
  if test.HasNegativeCycle {
   if ok {
    t.Errorf("%q: expected negative cycle", test.Name)
   }
   continue
  }
```

```
 if !ok {
  t.Fatalf("%q: unexpected negative cycle", test.Name)
 }

 // Check all random paths returned are OK.
 for i := 0; i < 10; i++ {
  p, weight, unique := pt.Between(test.Query.From().ID(), test.Query.To().ID())
  if weight != test.Weight {
   t.Errorf("%q: unexpected weight from Between: got:%f want:%f",
    test.Name,
weight, test.Weight)
  }
  if weight := pt.Weight(test.Query.From().ID(), test.Query.To().ID()); weight != test.Weight {
   t.Errorf("%q: unexpected weight from Weight: got:%f want:%f",
    test.Name, weight, test.Weight)
  }
  if unique != test.HasUniquePath {
   t.Errorf("%q: unexpected number of paths: got: unique=%t want: unique=%t",
    test.Name, unique, test.HasUniquePath)
  }

  var got []int64
  for _, n := range p {
   got = append(got, n.ID())
  }
  ok := len(got) == 0 && len(test.WantPaths) == 0
  for _, sp := range test.WantPaths {
   if reflect.DeepEqual(got, sp) {
    ok = true
    break
   }
  }
  if !ok {
   t.Errorf("%q: unexpected shortest path:\ngot: %v\nwant from:%v",
    test.Name, p, test.WantPaths)
  }
 }

 np, weight, unique := pt.Between(test.NoPathFor.From().ID(), test.NoPathFor.To().ID())
 if np != nil || !math.IsInf(weight, 1) || unique {
  t.Errorf("%q: unexpected path:\ngot: path=%v weight=%f unique=%t\nwant:path=<nil>
weight=+Inf unique=false",
   test.Name, np, weight, unique)
 }

 paths, weight := pt.AllBetween(test.Query.From().ID(), test.Query.To().ID())
 if weight != test.Weight {
  t.Errorf("%q: unexpected weight from Between: got:%f want:%f",
```

```
   test.Name, weight, test.Weight)
  }

  var got [][]int64
  if len(paths) != 0 {
   got = make([][]int64, len(paths))
  }
  for i, p := range paths {
   for _, v := range p {
    got[i] = append(got[i], v.ID())
   }
  }
  sort.Sort(ordered.BySliceValues(got))
  if !reflect.DeepEqual(got, test.WantPaths) {
   t.Errorf("testing %q: unexpected shortest paths:\ngot: %v\nwant:%v",
    test.Name, got, test.WantPaths)
  }

  nps, weight := pt.AllBetween(test.NoPathFor.From().ID(), test.NoPathFor.To().ID())
  if nps != nil || !math.IsInf(weight, 1) {
   t.Errorf("%q: unexpected path:\ngot: paths=%v weight=%f\nwant:path=<nil> weight=+Inf",
    test.Name, nps, weight)
  }
 }
}
graph{"\"\"\"\"\""}
graph{GRAPU{{GRAPU{GRAPU}{GRAPU}GRAPU{GRAPU}{GRAPU}GRAPU{GRAPR}}{{GRAPU}{GR
APU}GRAPU{GRAPU}{}GRAPU{GRAPR}}{GRAPU{GRAPU}{}GRAPU{GRAPU}{}GRAPU{GRAPR}}}}
graph{{{{SubG1}SubG1}}}
# Gio

Immediate mode GUI programs in Go for Android, iOS, macOS, Linux, FreeBSD,
Windows, and WebAssembly (experimental). See [gioui.org](https://gioui.org) for
details and documentation.

[![builds.sr.ht status](https://builds.sr.ht/~eliasnaur/gio.svg)](https://builds.sr.ht/~eliasnaur/gio)

## Issues

File bugs and TODOs through the [issue tracker](https://todo.sr.ht/~eliasnaur/gio) or send an email
to [~eliasnaur/gio@todo.sr.ht](mailto:~eliasnaur/gio@todo.sr.ht). For general discussion, use the
mailing list: [~eliasnaur/gio@lists.sr.ht](mailto:~eliasnaur/gio@lists.sr.ht).

## Contributing

Post discussion to the [mailing list](https://lists.sr.ht/~eliasnaur/gio) and patches to
[gio-patches](https://lists.sr.ht/~eliasnaur/gio-patches). No Sourcehut
account is required and you can post without being subscribed.
```

```
See the [contribution guide](https://gioui.org/doc/contribute) for more details.
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// license that can be found in the LICENSE file.

// +build !noasm,!appengine,!safe

package f32

// Ger performs the rank-one operation
//  A += alpha * x * y
// where A is an mn dense matrix, x and y are vectors, and alpha is a scalar.
func Ger(m, n uintptr, alpha float32,
 x []float32, incX uintptr,
 y []float32, incY uintptr,
 a []float32, lda uintptr)
graph{{DIGR1}}
graph{edN{edG}{edG}{edN{edG}{edG}}}
graph{{{{{{{{{}}}}}}}}}
graph{{dig7{{dig0{{{dig0}dig0}}dig0}}}}
graph{{SubGrt}{SubGrt}{SubGrt}}
graph{{GR_{{GR_}}}}
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// license that can be found in the LICENSE file.

package layout

import (
 "math"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/graph"
 "gonum.org/v1/gonum/spatial/barneshut"
 "gonum.org/v1/gonum/spatial/r2"
)

// EadesR2 implements the graph layout algorithm essentially as
// described in "A heuristic for graph drawing", Congressus
// numerantium 42:149-160.
// The implementation here uses the Barnes-Hut approximation for
// global repulsion calculation, and edge weights are considered
// when calculating adjacent node attraction.
type EadesR2 struct {
 // Updates is the number of updates to perform.
 Updates int
```

```
 // Repulsion is the strength of the global
 // repulsive force between nodes in the
 // layout. It corresponds to C3 in the paper.
 Repulsion float64

 // Rate is the gradient descent rate. It
 // corresponds to C4 in the paper.
 Rate float64

 // Theta is the
 Barnes-Hut theta constant.
 Theta float64

 // Src is the source of randomness used
 // to initialize the nodes' locations. If
 // Src is nil, the global random number
 // generator is used.
 Src rand.Source

 nodes   graph.Nodes
 indexOf map[int64]int

 particles []barneshut.Particle2
 forces    []r2.Vec
}

// Update is the EadesR2 spatial graph update function.
func (u *EadesR2) Update(g graph.Graph, layout LayoutR2) bool {
 if u.Updates <= 0 {
  return false
 }
 u.Updates--

 if !layout.IsInitialized() {
  var rnd func() float64
  if u.Src == nil {
   rnd = rand.Float64
  } else {
   rnd = rand.New(u.Src).Float64
  }
  u.nodes = g.Nodes()
  u.indexOf = make(map[int64]int, u.nodes.Len())
  u.particles = make([]barneshut.Particle2, 0, u.nodes.Len())
  u.forces = make([]r2.Vec, u.nodes.Len())
  for u.nodes.Next() {
   id := u.nodes.Node().ID()
   u.indexOf[id] = len(u.particles)
```

```
  u.particles = append(u.particles, eadesR2Node{id: id, pos: r2.Vec{X: rnd(), Y: rnd()}})
 }
}
u.nodes.Reset()

//
Apply global repulsion.
plane, err := barneshut.NewPlane(u.particles)
if err != nil {
 return false
}
var updated bool
for i, p := range u.particles {
 f := plane.ForceOn(p, u.Theta, barneshut.Gravity2).Scale(-u.Repulsion)
 // Prevent marginal updates that can be caused by
 // floating point error when nodes are very far apart.
 if math.Hypot(f.X, f.Y) > 1e-12 {
  updated = true
 }
 u.forces[i] = f
}

// Handle edge weighting for attraction.
var weight func(uid, vid int64) float64
if wg, ok := g.(graph.Weighted); ok {
 if _, ok := g.(graph.Directed); ok {
  weight = func(xid, yid int64) float64 {
   var w float64
   f, ok := wg.Weight(xid, yid)
   if ok {
    w += f
   }
   r, ok := wg.Weight(yid, xid)
   if ok {
    w += r
   }
   return w
  }
 } else {
  weight = func(xid, yid int64) float64 {
   w, ok := wg.Weight(xid, yid)
   if ok {
    return w
   }
   return 0
  }
 }
} else {
```

```
 // This is only called when the adjacency is known
so just return unit.
 weight = func(_, _ int64) float64 { return 1 }
}

seen := make(map[[2]int64]bool)
for u.nodes.Next() {
 xid := u.nodes.Node().ID()
 xidx := u.indexOf[xid]
 to := g.From(xid)
 for to.Next() {
  yid := to.Node().ID()
  if seen[[2]int64{xid, yid}] {
   continue
  }
  seen[[2]int64{yid, xid}] = true
  yidx := u.indexOf[yid]

  // Apply adjacent node attraction.
  v := u.particles[yidx].Coord2().Sub(u.particles[xidx].Coord2())
  f := v.Scale(weight(xid, yid) * math.Log(math.Hypot(v.X, v.Y)))
  if math.Hypot(f.X, f.Y) > 1e-12 {
   updated = true
  }
  u.forces[xidx] = u.forces[xidx].Add(f)
  u.forces[yidx] = u.forces[yidx].Sub(f)
 }
}

if !updated {
 return false
}

rate := u.Rate
if rate == 0 {
 rate = 0.1
}
for i, f := range u.forces {
 n := u.particles[i].(eadesR2Node)
 n.pos = n.pos.Add(f.Scale(rate))
 u.particles[i] = n
 layout.SetCoord2(n.id, n.pos)
}
return true
}

type eadesR2Node struct {
 id  int64
```

```
 pos r2.Vec
}

func (p
 eadesR2Node) Coord2() r2.Vec { return p.pos }
func (p eadesR2Node) Mass() float64  { return 1 }
graph{DIGS{DIGS}}
Graph{Grap[]Grap[]Grap}
graph{Subgra{Subgra{Subgra}Subgra}Subgra}
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package quat

import "math"

// Sin returns the sine of q.
func Sin(q Number) Number {
 w, uv := split(q)
 if uv == zero {
  return lift(math.Sin(w))
 }
 v := Abs(uv)
 s, c := math.Sincos(w)
 sh, ch := sinhcosh(v)
 return join(s*ch, Scale(c*sh/v, uv))
}

// Sinh returns the hyperbolic sine of q.
func Sinh(q Number) Number {
 w, uv := split(q)
 if uv == zero {
  return lift(math.Sinh(w))
 }
 v := Abs(uv)
 s, c := math.Sincos(v)
 sh, ch := sinhcosh(w)
 return join(c*sh, scale(s*ch/v, uv))
}

// Cos returns the cosine of q.
func Cos(q Number) Number {
 w, uv := split(q)
```

```
 if uv == zero {
  return lift(math.Cos(w))
 }
 v := Abs(uv)
 s, c := math.Sincos(w)
 sh, ch := sinhcosh(v)
 return
 join(c*ch, Scale(-s*sh/v, uv))
}

// Cosh returns the hyperbolic cosine of q.
func Cosh(q Number) Number {
 w, uv := split(q)
 if uv == zero {
  return lift(math.Cosh(w))
 }
 v := Abs(uv)
 s, c := math.Sincos(v)
 sh, ch := sinhcosh(w)
 return join(c*ch, scale(s*sh/v, uv))
}

// Tan returns the tangent of q.
func Tan(q Number) Number {
 d := Cos(q)
 if d == zero {
  return Inf()
 }
 return Mul(Sin(q), Inv(d))
}

// Tanh returns the hyperbolic tangent of q.
func Tanh(q Number) Number {
 if math.IsInf(q.Real, 1) {
  r := Number{Real: 1}
  // Change signs dependent on imaginary parts.
  r.Imag *= math.Sin(2 * q.Imag)
  r.Jmag *= math.Sin(2 * q.Jmag)
  r.Kmag *= math.Sin(2 * q.Kmag)
  return r
 }
 d := Cosh(q)
 if d == zero {
  return Inf()
 }
 return Mul(Sinh(q), Inv(d))
}
```

```
// Asin returns the inverse sine of q.
func Asin(q Number) Number {
 _, uv := split(q)
 if uv == zero {
  return lift(math.Asin(q.Real))
 }
 u := unit(uv)
 return Mul(Scale(-1, u), Log(Add(Mul(u, q), Sqrt(Sub(Number{Real:
 1}, Mul(q, q))))))
}

// Asinh returns the inverse hyperbolic sine of q.
func Asinh(q Number) Number {
 return Log(Add(q, Sqrt(Add(Number{Real: 1}, Mul(q, q)))))
}

// Acos returns the inverse cosine of q.
func Acos(q Number) Number {
 w, uv := split(Asin(q))
 return join(math.Pi/2-w, Scale(-1, uv))
}

// Acosh returns the inverse hyperbolic cosine of q.
func Acosh(q Number) Number {
 w := Acos(q)
 _, uv := split(w)
 if uv == zero {
  return w
 }
 w = Mul(w, unit(uv))
 if w.Real < 0 {
  w = Scale(-1, w)
 }
 return w
}

// Atan returns the inverse tangent of q.
func Atan(q Number) Number {
 w, uv := split(q)
 if uv == zero {
  return lift(math.Atan(w))
 }
 u := unit(uv)
 return Mul(Mul(lift(0.5), u), Log(Mul(Add(u, q), Inv(Sub(u, q)))))
}

// Atanh returns the inverse hyperbolic tangent of q.
func Atanh(q Number) Number {
```

```
 w, uv := split(q)
 if uv == zero {
  return lift(math.Atanh(w))
 }
 u := unit(uv)
 return Mul(Scale(-1, u), Atan(Mul(u, q)))
}

// calculate sinh and cosh
func
 sinhcosh(x float64) (sh, ch float64) {
 if math.Abs(x) <= 0.5 {
  return math.Sinh(x), math.Cosh(x)
 }
 e := math.Exp(x)
 ei := 0.5 / e
 e *= 0.5
 return e - ei, e + ei
}

// scale returns q scaled by f, except that inf0 is 0.
func scale(f float64, q Number) Number {
 if f == 0 {
  return Number{}
 }
 if q.Real != 0 {
  q.Real *= f
 }
 if q.Imag != 0 {
  q.Imag *= f
 }
 if q.Jmag != 0 {
  q.Jmag *= f
 }
 if q.Kmag != 0 {
  q.Kmag *= f
 }
 return q
}
graph{Grap_}
// SPDX-License-Identifier: Unlicense OR MIT

// +build linux,!android,!nox11 freebsd

package window

import (
 "unsafe"
```

```
 "gioui.org/app/internal/egl"
)

type x11Context struct {
 win *x11Window
 *egl.Context
}

func (w *x11Window) NewContext() (Context, error) {
 disp := egl.NativeDisplayType(unsafe.Pointer(w.display()))
 ctx, err := egl.NewContext(disp)
 if err != nil {
  return nil, err
 }
 return &x11Context{win: w, Context: ctx}, nil
}

func (c *x11Context) Release() {
 if c.Context != nil {
  c.Context.Release()
  c.Context = nil
 }
}

func (c *x11Context) MakeCurrent() error {
 c.Context.ReleaseSurface()
 win, width, height := c.win.window()
 eglSurf := egl.NativeWindowType(uintptr(win))
 if err := c.Context.CreateSurface(eglSurf, width, height); err != nil {
  return err
 }
 if err := c.Context.MakeCurrent(); err != nil {
  return err
 }
 c.Context.EnableVSync(true)
 return nil
}

func (c *x11Context) Lock() {}

func (c *x11Context) Unlock() {}
graph{{{DiGrag}DiGrag{DiGrag}DiGrag}{DiGrag}}
graph{{{ED}}}
graph{{{Digr_}Digr_{Digr_}}}
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```

```
package mat_test

import (
 "fmt"

 "gonum.org/v1/gonum/mat"
)

func ExampleSymDense_SubsetSym() {
 n := 5
 s := mat.NewSymDense(5, nil)
 count := 1.0
 for i := 0; i < n; i++ {
  for j := i; j < n; j++ {
   s.SetSym(i, j, count)
   count++
  }
 }
 fmt.Println("Original matrix:")
 fmt.Printf("%0.4v\n\n", mat.Formatted(s))

 // Take the subset {0, 2, 4}
 var sub mat.SymDense
 sub.SubsetSym(s, []int{0, 2, 4})
 fmt.Println("Subset {0, 2, 4}")
 fmt.Printf("%0.4v\n\n", mat.Formatted(&sub))

 // Take the subset {0, 0, 4}
 sub.SubsetSym(s, []int{0, 0, 4})
 fmt.Println("Subset {0, 0, 4}")
 fmt.Printf("%0.4v\n\n", mat.Formatted(&sub))

 // Output:
 // Original matrix:
 //  1   2   3   4   5
 //  2   6   7   8   9
 //  3   7  10  11  12
 //  4   8  11  13  14
 //  5   9  12  14  15
 //
 // Subset {0, 2, 4}
 //  1   3   5
 //  3  10  12
 //
  5  12  15
 //
 // Subset {0, 0, 4}
```

```
 //  1   1   5
 //  1   1   5
 //  5   5  15
}
graph{{NO_}{NO_}{NO_}{NO_}{NO_}NO_}
graph{"\s\s\s\s\s\s\s\s\s\\\\\\\\\\"}
graph{{{{{{gO{gO}gJ}gJ{{{{{gO}}}}}}}}}}
graph{{Nodeh{{Nodeh{Nodeh}Nodeh}Nodeh}Nodeh}}
graph{Edgh{Edgh{Edgr}{{Edgh{Edgh{Edgr}{Edgr}}Edgh{}}Edgh{}}Edgr}}
{{Types "BSD-3-Clause Apache-2.0 MIT"}}
```

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graph{SUBG_}
graph{{GS{GS}{GS{GS}{GS}{GS}}}}
graph{SU{SU{{SU}}}}
graph{Subr{Subr}}
graph{{{subgr{{{subgr{}subgr{{{subgr{}subgr}}}}}}subgr}}}
graph{{{DIGR1}DIGR1}}
graph{-.5{-.5}}
graph{{{Strictc}Strictc{Strictc}}}
graph{diGra_[diGra_=""]diGra_[diGra_=""]diGra_}
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```
package gonum

import "math"

// Dlasq6 computes one dqd transform in ping-pong form with protection against
// overflow and underflow. z has length at least 4*(n0+1) and holds the qd array.
// i0 is the zero-based first index.
// n0 is the zero-based last index.
//
// Dlasq6 is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dlasq6(i0, n0 int, z []float64, pp int) (dmin, dmin1, dmin2, dn, dnm1, dnm2 float64) {
 switch {
 case i0 < 0:
```

```
 panic(i0LT0)
case n0 < 0:
 panic(n0LT0)
case len(z) < 4*n0:
 panic(shortZ)
case pp != 0 && pp != 1:
 panic(badPp)
}

if n0-i0-1 <= 0 {
 return dmin, dmin1, dmin2, dn, dnm1, dnm2
}

safmin := dlamchS
j4 := 4*(i0+1) + pp - 4 // -4 rather than -3 for zero indexing
emin := z[j4+4]
d := z[j4]
dmin = d
if pp == 0 {
 for j4loop := 4 * (i0 + 1); j4loop
<= 4*((n0+1)-3); j4loop += 4 {
  j4 := j4loop - 1 // Translate back to zero-indexed.
  z[j4-2] = d + z[j4-1]
  if z[j4-2] == 0 {
   z[j4] = 0
   d = z[j4+1]
   dmin = d
   emin = 0
  } else if safmin*z[j4+1] < z[j4-2] && safmin*z[j4-2] < z[j4+1] {
   tmp := z[j4+1] / z[j4-2]
   z[j4] = z[j4-1] * tmp
   d *= tmp
  } else {
   z[j4] = z[j4+1] * (z[j4-1] / z[j4-2])
   d = z[j4+1] * (d / z[j4-2])
  }
  dmin = math.Min(dmin, d)
  emin = math.Min(emin, z[j4])
 }
} else {
 for j4loop := 4 * (i0 + 1); j4loop <= 4*((n0+1)-3); j4loop += 4 {
  j4 := j4loop - 1
  z[j4-3] = d + z[j4]
  if z[j4-3] == 0 {
   z[j4-1] = 0
   d = z[j4+2]
   dmin = d
   emin = 0
```

```
  } else if safmin*z[j4+2] < z[j4-3] && safmin*z[j4-3] < z[j4+2] {
   tmp := z[j4+2] / z[j4-3]
   z[j4-1] = z[j4] * tmp
   d *= tmp
  } else {
   z[j4-1] = z[j4+2] * (z[j4] / z[j4-3])
   d = z[j4+2] * (d / z[j4-3])
  }
  dmin = math.Min(dmin, d)
  emin = math.Min(emin, z[j4-1])
 }
}
// Unroll last two steps.
dnm2
= d
dmin2 = dmin
j4 = 4*(n0-1) - pp - 1
j4p2 := j4 + 2*pp - 1
z[j4-2] = dnm2 + z[j4p2]
if z[j4-2] == 0 {
 z[j4] = 0
 dnm1 = z[j4p2+2]
 dmin = dnm1
 emin = 0
} else if safmin*z[j4p2+2] < z[j4-2] && safmin*z[j4-2] < z[j4p2+2] {
 tmp := z[j4p2+2] / z[j4-2]
 z[j4] = z[j4p2] * tmp
 dnm1 = dnm2 * tmp
} else {
 z[j4] = z[j4p2+2] * (z[j4p2] / z[j4-2])
 dnm1 = z[j4p2+2] * (dnm2 / z[j4-2])
}
dmin = math.Min(dmin, dnm1)
dmin1 = dmin
j4 += 4
j4p2 = j4 + 2*pp - 1
z[j4-2] = dnm1 + z[j4p2]
if z[j4-2] == 0 {
 z[j4] = 0
 dn = z[j4p2+2]
 dmin = dn
 emin = 0
} else if safmin*z[j4p2+2] < z[j4-2] && safmin*z[j4-2] < z[j4p2+2] {
 tmp := z[j4p2+2] / z[j4-2]
 z[j4] = z[j4p2] * tmp
 dn = dnm1 * tmp
} else {
 z[j4] = z[j4p2+2] * (z[j4p2] / z[j4-2])
```

```
 dn = z[j4p2+2] * (dnm1 / z[j4-2])
 }
 dmin = math.Min(dmin, dn)
 z[j4+2] = dn
 z[4*(n0+1)-pp-1] = emin
 return dmin, dmin1, dmin2, dn, dnm1, dnm2
}
graph{{SUBGG{SUBGH}SUBGG}{SUBGG{SUBGH}SUBGG}}
Graph{GraphG{GraphG{GraphG}}GraphG}
graph{Strr-9Strr-9Strr-9Strr-9Strr-9Strr-9Strr}
graph{{sur{{sur}sur{sur}sur}}}
graph{{{{{{dig}}}}dig{{{dig}}}dig{{{dig}}}}dig{{{dig}}dig{{dig}}}}
graph{"\{\L"}
graph{{Edd{{{{Edd}Edd}Edd}Edd}}Edd}
graph{{diGrap}diGr{diGrap}diGr{diGrap}diGrap}
graph{Nodr{Nodr}Nodr{Nodr}}
graph{Nodd{Nodd}}
graph{Stric5{{{{Stric5}{Stric5{Stric5{Stric5}}Stric5}{}{Stric5{Stric5{Stric5}}Stric5}{Stric5}}{Stric5{Stric5}}}
}{{{{Stric5{Stric5{Stric5}}Stric5}}{{}}}}Stric5}
graph{{diGrap3}{diGrap3}{diGrap3}{diGrap3}diGrap7}
      SUBROUTINE ZKSCL(ZRR,ZRI,FNU,N,YR,YI,NZ,RZR,RZI,ASCLE,TOL,ELIM)
C***BEGIN PROLOGUE  ZKSCL
C***REFER TO  ZBESK
C
C     SET K FUNCTIONS TO ZERO ON UNDERFLOW, CONTINUE RECURRENCE
C     ON SCALED FUNCTIONS UNTIL TWO MEMBERS COME ON SCALE, THEN
C     RETURN WITH MIN(NZ+2,N) VALUES SCALED BY 1/TOL.
C
C***ROUTINES CALLED  ZUCHK,ZABS,ZLOG
C***END PROLOGUE  ZKSCL
C     COMPLEX CK,CS,CY,CZERO,RZ,S1,S2,Y,ZR,ZD,CELM
      DOUBLE PRECISION ACS, AS, ASCLE, CKI, CKR, CSI, CSR, CYI,
     * CYR, ELIM, FN, FNU, RZI, RZR, STR, S1I, S1R, S2I,
     * S2R, TOL, YI, YR, ZEROI, ZEROR, ZRI, ZRR, ZABS,
     * ZDR, ZDI, CELMR, ELM, HELIM, ALAS
      INTEGER I, IC, IDUM, KK, N, NN, NW, NZ
      DIMENSION YR(N), YI(N), CYR(2), CYI(2)
      DATA ZEROR,ZEROI / 0.0D0 , 0.0D0 /
C
      NZ = 0
      IC = 0
      NN = MIN0(2,N)
      DO 10 I=1,NN
        S1R = YR(I)
        S1I = YI(I)
        CYR(I) = S1R
        CYI(I) = S1I
        AS = ZABS(CMPLX(S1R,S1I,kind=KIND(1.0D0)))
```

```
      ACS = -ZRR + DLOG(AS)

 NZ = NZ + 1
      YR(I) = ZEROR
      YI(I) = ZEROI
      IF (ACS.LT.(-ELIM)) GO TO 10
      CALL ZLOG(S1R, S1I, CSR, CSI, IDUM)
      CSR = CSR - ZRR
      CSI = CSI - ZRI
      STR = DEXP(CSR)/TOL
      CSR = STR*DCOS(CSI)
      CSI = STR*DSIN(CSI)
      CALL ZUCHK(CSR, CSI, NW, ASCLE, TOL)
      IF (NW.NE.0) GO TO 10
      YR(I) = CSR
      YI(I) = CSI
      IC = I
      NZ = NZ - 1
   10 CONTINUE
    IF (N.EQ.1) RETURN
    IF (IC.GT.1) GO TO 20
    YR(1) = ZEROR
    YI(1) = ZEROI
    NZ = 2
   20 CONTINUE
    IF (N.EQ.2) RETURN
    IF (NZ.EQ.0) RETURN
    FN = FNU + 1.0D0
    CKR = FN*RZR
    CKI = FN*RZI
    S1R = CYR(1)
    S1I = CYI(1)
    S2R = CYR(2)
    S2I = CYI(2)
    HELIM = 0.5D0*ELIM
    ELM = DEXP(-ELIM)
    CELMR = ELM
    ZDR = ZRR
    ZDI = ZRI
C
C     FIND TWO CONSECUTIVE Y VALUES ON SCALE. SCALE RECURRENCE IF
C     S2 GETS LARGER THAN EXP(ELIM/2)
C
    DO 30 I=3,N
      KK = I
      CSR = S2R
       CSI = S2I
      S2R = CKR*CSR - CKI*CSI + S1R
```

```
      S2I = CKI*CSR + CKR*CSI + S1I
      S1R = CSR
      S1I = CSI
      CKR = CKR + RZR
      CKI = CKI + RZI
      AS = ZABS(CMPLX(S2R,S2I,kind=KIND(1.0D0)))
      ALAS = DLOG(AS)
      ACS = -ZDR + ALAS
      NZ = NZ + 1
      YR(I) = ZEROR
      YI(I) = ZEROI
      IF (ACS.LT.(-ELIM)) GO TO 25
      CALL ZLOG(S2R, S2I, CSR, CSI, IDUM)
      CSR = CSR - ZDR
      CSI = CSI - ZDI
      STR = DEXP(CSR)/TOL
      CSR = STR*DCOS(CSI)
      CSI = STR*DSIN(CSI)
      CALL ZUCHK(CSR, CSI, NW, ASCLE, TOL)
      IF (NW.NE.0) GO TO 25
      YR(I) = CSR
      YI(I) = CSI
      NZ = NZ - 1
      IF (IC.EQ.KK-1) GO TO 40
      IC = KK
      GO TO 30
   25   CONTINUE
      IF(ALAS.LT.HELIM) GO TO 30
      ZDR = ZDR - ELIM
      S1R = S1R*CELMR
      S1I = S1I*CELMR
      S2R = S2R*CELMR
      S2I = S2I*CELMR
   30 CONTINUE
     NZ = N
     IF(IC.EQ.N) NZ=N-1
     GO TO 45
   40 CONTINUE
     NZ = KK - 2
   45 CONTINUE
     DO 50 I=1,NZ
       YR(I) = ZEROR
       YI(I) = ZEROI
   50 CONTINUE
     RETURN
     END
graph{{{DIG }}}
```

```
graph{<>}
graph{sub{sub}{sub{sub{sub}{sub}}}}
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// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

package testlapack

import (
 "math"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/lapack"
)

type Dlansyer interface {
 Dlanger
 Dlansy(norm lapack.MatrixNorm, uplo blas.Uplo, n int, a []float64, lda int, work []float64) float64
}

func DlansyTest(t *testing.T, impl Dlansyer) {
 rnd := rand.New(rand.NewSource(1))
 for _, norm := range []lapack.MatrixNorm{lapack.MaxAbs, lapack.MaxColumnSum, lapack.MaxRowSum,
lapack.Frobenius} {
  for _, uplo := range []blas.Uplo{blas.Lower, blas.Upper} {
   for _, test := range []struct {
    n, lda int
   }{
    {1, 0},
    {3, 0},

    {1, 10},
    {3, 10},
   } {
    for trial := 0; trial < 100; trial++ {
     n := test.n
     lda := test.lda
     if lda == 0 {
      lda = n
     }
     // Allocate nn matrix A and fill it.
     // Only the uplo triangle
 of A will be used below
     // to represent a symmetric matrix.
     a := make([]float64, lda*n)
```

```
    if trial == 0 {
     // In the first trial fill the matrix
     // with predictable integers.
     for i := range a {
      a[i] = float64(i)
     }
    } else {
     // Otherwise fill it with random numbers.
     for i := range a {
      a[i] = rnd.NormFloat64()
     }
    }

    // Create a dense representation of the symmetric matrix
    // stored in the uplo triangle of A.
    aDense := make([]float64, n*n)
    if uplo == blas.Upper {
     for i := 0; i < n; i++ {
      for j := i; j < n; j++ {
       v := a[i*lda+j]
       aDense[i*n+j] = v
       aDense[j*n+i] = v
      }
     }
    } else {
     for i := 0; i < n; i++ {
      for j := 0; j <= i; j++ {
       v := a[i*lda+j]
       aDense[i*n+j] = v
       aDense[j*n+i] = v
      }
     }
    }

    work := make([]float64, n)
    // Compute the norm of the symmetric matrix A.
    got := impl.Dlansy(norm,
uplo, n, a, lda, work)
    // Compute the reference norm value using Dlange
    // and the dense representation of A.
    want := impl.Dlange(norm, n, n, aDense, n, work)
    if math.Abs(want-got) > 1e-14 {
     t.Errorf("Norm mismatch. norm = %c, upper = %v, n = %v, lda = %v, want %v, got %v.",
      norm, uplo == blas.Upper, n, lda, got, want)
    }
   }
  }
 }
```

```
 }
}
graph{St{{St{St{{St}}St}}St{{St}}St}}
graph{Np{Np{Np}}}
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// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

package gonum

import (
 "gonum.org/v1/gonum/blas/blas64"
 "gonum.org/v1/gonum/lapack"
)

// Dgebak updates an nm matrix V as
//  V = P D V       if side == lapack.EVRight,
//  V = P D^{-1} V  if side == lapack.EVLeft,
// where P and D are nn permutation and scaling matrices, respectively,
// implicitly represented by job, scale, ilo and ihi as returned by Dgebal.
//
// Typically, columns of the matrix V contain the right or left (determined by
// side) eigenvectors of the balanced matrix output by Dgebal, and Dgebak forms
// the eigenvectors of the original matrix.
//
// Dgebak is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dgebak(job lapack.BalanceJob, side lapack.EVSide, n, ilo, ihi int, scale []float64, m int,
v []float64, ldv int) {
 switch {
 case job != lapack.BalanceNone && job
 != lapack.Permute && job != lapack.Scale && job != lapack.PermuteScale:
  panic(badBalanceJob)
 case side != lapack.EVLeft && side != lapack.EVRight:
  panic(badEVSide)
 case n < 0:
  panic(nLT0)
 case ilo < 0 || max(0, n-1) < ilo:
  panic(badIlo)
 case ihi < min(ilo, n-1) || n <= ihi:
  panic(badIhi)
 case m < 0:
  panic(mLT0)
 case ldv < max(1, m):
  panic(badLdV)
 }

 // Quick return if possible.
 if n == 0 || m == 0 {
```

```
 return
}

if len(scale) < n {
 panic(shortScale)
}
if len(v) < (n-1)*ldv+m {
 panic(shortV)
}

// Quick return if possible.
if job == lapack.BalanceNone {
 return
}

bi := blas64.Implementation()
if ilo != ihi && job != lapack.Permute {
 // Backward balance.
 if side == lapack.EVRight {
  for i := ilo; i <= ihi; i++ {
   bi.Dscal(m, scale[i], v[i*ldv:], 1)
  }
 } else {
  for i := ilo; i <= ihi; i++ {
   bi.Dscal(m, 1/scale[i], v[i*ldv:], 1)
  }
 }
}
if job == lapack.Scale {
 return
}
// Backward permutation.
for i := ilo - 1; i >= 0; i--
{
 k := int(scale[i])
 if k == i {
  continue
 }
 bi.Dswap(m, v[i*ldv:], 1, v[k*ldv:], 1)
}
for i := ihi + 1; i < n; i++ {
 k := int(scale[i])
 if k == i {
  continue
 }
 bi.Dswap(m, v[i*ldv:], 1, v[k*ldv:], 1)
}
}
```

```
graph{GR{GR{GR}GR}}
graph{{{{DiGg}}DiGa{{DiGg}}}}
graph{G:c J:c J:c}
graph{{{di9{di9}di3}}}
graph{SUBGRAPH{SUBGRAPH{SUBGRAPH{{SUBGRAPH{}}}}}}
graph{{NO{{NO{}NO{NO{}NO}}}NO{NO{}NO}NO}}
graph{NOA{NOA}}
graph{{digrap4}}
graph{{{dn d}d{dn d}d{dn d}d{dn d}d}d{d}d{dn d}}
graph{{DiGra{{DiGra{DiGra}{DiGra{DiGra}}DiGra}DiGra{DiGra}}DiGra}}
graph{{DIGRAe}{DIGRAe{{DIGRAe{DIGRAe}}DIGRAe}{{DIGRAe{DIGRAe}}DIGRAe}}DIGRAe}
image: freebsd/latest
packages:
- libX11
- libxkbcommon
- wayland
- mesa-libs
- xorg-vfbserver
- go
sources:
- https://git.sr.ht/~eliasnaur/gio
environment:
  PATH: /home/build/bin:/bin:/usr/local/bin:/usr/bin
tasks:
- install_gotip: |
   go get golang.org/dl/gotip
   /home/build/go/bin/gotip download
   mkdir /home/build/bin
   ln -s /home/build/go/bin/gotip /home/build/bin/go
- test_gio: |
   cd gio
   go test ./...
- test_example: |
   cd gio/example
   go test ./...
- test_cmd: |
   cd gio/cmd
   go test ./...
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// license that can be found in the LICENSE file.

package gonum

import (
 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/testblas"
)
```

```
const (
 Sm  = testblas.SmallMat
 Med = testblas.MediumMat
 Lg  = testblas.LargeMat
 Hg  = testblas.HugeMat
)

const (
 T  = blas.Trans
 NT = blas.NoTrans
)
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// license that can be found in the LICENSE file.

package distuv

import (
 "math"

 "golang.org/x/exp/rand"
)

// Pareto implements the Pareto (Type I) distribution, a one parameter distribution
// with support above the scale parameter.
//
// The density function is given by
//  ( x_m^{})/(x^{+1}) for x >= x_m.
//
// For more information, see https://en.wikipedia.org/wiki/Pareto_distribution.
type Pareto struct {
 // Xm is the scale parameter.
 // Xm must be greater than 0.
 Xm float64

 // Alpha is the shape parameter.
 // Alpha must be greater than 0.
 Alpha float64

 Src rand.Source
}

// CDF computes the value of the cumulative density function at x.
func (p Pareto) CDF(x float64) float64 {
 if x < p.Xm {
  return 0
 }
```

```
 return 1 - p.Survival(x)
}

// Entropy returns the differential entropy of the distribution.
func (p Pareto) Entropy() float64 {
 return math.Log(p.Xm)
 - math.Log(p.Alpha) + (1 + 1/p.Alpha)
}

// ExKurtosis returns the excess kurtosis of the distribution.
func (p Pareto) ExKurtosis() float64 {
 if p.Alpha <= 4 {
  return 0
 }
 return 6 * (p.Alpha*p.Alpha*p.Alpha + p.Alpha*p.Alpha - 6*p.Alpha - 2) / (p.Alpha * (p.Alpha - 3) * (p.Alpha - 4))

}

// LogProb computes the natural logarithm of the value of the probability
// density function at x.
func (p Pareto) LogProb(x float64) float64 {
 if x < p.Xm {
  return math.Inf(-1)
 }
 return math.Log(p.Alpha) + p.Alpha*math.Log(p.Xm) - (p.Alpha+1)*math.Log(x)
}

// Mean returns the mean of the probability distribution.
func (p Pareto) Mean() float64 {
 if p.Alpha <= 1 {
  return math.Inf(1)
 }
 return p.Alpha * p.Xm / (p.Alpha - 1)
}

// Median returns the median of the pareto distribution.
func (p Pareto) Median() float64 {
 return p.Xm * math.Pow(2, 1/p.Alpha)
}

// Mode returns the mode of the distribution.
func (p Pareto) Mode() float64 {
 return p.Xm
}

// NumParameters returns the number
 of parameters in the distribution.
func (p Pareto) NumParameters() int {
```

```
 return 2
}

// Prob computes the value of the probability density function at x.
func (p Pareto) Prob(x float64) float64 {
 return math.Exp(p.LogProb(x))
}

// Rand returns a random sample drawn from the distribution.
func (p Pareto) Rand() float64 {
 var rnd float64
 if p.Src == nil {
  rnd = rand.ExpFloat64()
 } else {
  rnd = rand.New(p.Src).ExpFloat64()
 }
 return math.Exp(math.Log(p.Xm) + 1/p.Alpha*rnd)
}

// StdDev returns the standard deviation of the probability distribution.
func (p Pareto) StdDev() float64 {
 return math.Sqrt(p.Variance())
}

// Survival returns the survival function (complementary CDF) at x.
func (p Pareto) Survival(x float64) float64 {
 if x < p.Xm {
  return 1
 }
 return math.Exp(p.Alpha * (math.Log(p.Xm) - math.Log(x)))
}

// Variance returns the variance of the probability distribution.
func (p Pareto) Variance() float64 {
 if p.Alpha <= 2 {
  return math.Inf(1)
 }
 am1 := p.Alpha
 - 1
 return p.Xm * p.Xm * p.Alpha / (am1 * am1 * (p.Alpha - 2))
}
graph{DigrJ{DigrJ{{{DigrJ}DigrJ{DigrJ}}DigrT}}}
Graph{{{{{{{{{{subgra}{subgra}}subgra}}}subgra}}subgra}}}
*> \brief \b DLASSQ updates a sum of squares represented in scaled form.
*
*  =========== DOCUMENTATION ===========
*
* Online html documentation available at
```

```
*           http://www.netlib.org/lapack/explore-html/
*
*> \htmlonly
*> Download DLASSQ + dependencies
*> <a href="http://www.netlib.org/cgi-bin/netlibfiles.tgz?format=tgz&filename=/lapack/lapack_routine/dlassq.f">
*> [TGZ]</a>
*> <a href="http://www.netlib.org/cgi-bin/netlibfiles.zip?format=zip&filename=/lapack/lapack_routine/dlassq.f">
*> [ZIP]</a>
*> <a href="http://www.netlib.org/cgi-bin/netlibfiles.txt?format=txt&filename=/lapack/lapack_routine/dlassq.f">
*> [TXT]</a>
*> \endhtmlonly
*
*  Definition:
*  ===========
*
*      SUBROUTINE DLASSQ( N, X, INCX, SCALE, SUMSQ )
*
*      .. Scalar Arguments ..
*      INTEGER            INCX, N
*      DOUBLE PRECISION   SCALE, SUMSQ
*      ..
*      .. Array Arguments ..
*      DOUBLE PRECISION   X( * )
*      ..
*
*
*> \par Purpose:
*  =============
*>
*> \verbatim
*>
*>
 DLASSQ  returns the values  scl  and  smsq  such that
*>
*>    ( scl**2 )*smsq = x( 1 )**2 +...+ x( n )**2 + ( scale**2 )*sumsq,
*>
*> where  x( i ) = X( 1 + ( i - 1 )*INCX ). The value of  sumsq  is
*> assumed to be non-negative and  scl  returns the value
*>
*>    scl = max( scale, abs( x( i ) ) ).
*>
*> scale and sumsq must be supplied in SCALE and SUMSQ and
*> scl and smsq are overwritten on SCALE and SUMSQ respectively.
*>
*> The routine makes only one pass through the vector x.
*> \endverbatim
*
*  Arguments:
```

```
*  ==========
*
*> \param[in] N
*> \verbatim
*>          N is INTEGER
*>          The number of elements to be used from the vector X.
*> \endverbatim
*>
*> \param[in] X
*> \verbatim
*>          X is DOUBLE PRECISION array, dimension (N)
*>          The vector for which a scaled sum of squares is computed.
*>             x( i )  = X( 1 + ( i - 1 )*INCX ), 1 <= i <= n.
*> \endverbatim
*>
*> \param[in] INCX
*> \verbatim
*>          INCX is INTEGER
*>          The increment
 between successive values of the vector X.
*>          INCX > 0.
*> \endverbatim
*>
*> \param[in,out] SCALE
*> \verbatim
*>          SCALE is DOUBLE PRECISION
*>          On entry, the value  scale  in the equation above.
*>          On exit, SCALE is overwritten with  scl , the scaling factor
*>          for the sum of squares.
*> \endverbatim
*>
*> \param[in,out] SUMSQ
*> \verbatim
*>          SUMSQ is DOUBLE PRECISION
*>          On entry, the value  sumsq  in the equation above.
*>          On exit, SUMSQ is overwritten with  smsq , the basic sum of
*>          squares from which  scl  has been factored out.
*> \endverbatim
*
*  Authors:
*  ========
*
*> \author Univ. of Tennessee
*> \author Univ. of California Berkeley
*> \author Univ. of Colorado Denver
*> \author NAG Ltd.
*
*> \date September 2012
```

```
*
*> \ingroup auxOTHERauxiliary
*
*  =====================================================================
      SUBROUTINE DLASSQ( N, X, INCX, SCALE, SUMSQ )
*
*  -- LAPACK auxiliary
 routine (version 3.4.2) --
*  -- LAPACK is a software package provided by Univ. of Tennessee,    --
*  -- Univ. of California Berkeley, Univ. of Colorado Denver and NAG Ltd..--
*     September 2012
*
*     .. Scalar Arguments ..
      INTEGER            INCX, N
      DOUBLE PRECISION   SCALE, SUMSQ
*     ..
*     .. Array Arguments ..
      DOUBLE PRECISION   X( * )
*     ..
*
* =====================================================================
*
*     .. Parameters ..
      DOUBLE PRECISION   ZERO
      PARAMETER          ( ZERO = 0.0D+0 )
*     ..
*     .. Local Scalars ..
      INTEGER            IX
      DOUBLE PRECISION   ABSXI
*     ..
*     .. External Functions ..
      LOGICAL            DISNAN
      EXTERNAL           DISNAN
*     ..
*     .. Intrinsic Functions ..
      INTRINSIC          ABS
*     ..
*     .. Executable Statements ..
*
      IF( N.GT.0 ) THEN
         DO 10 IX = 1, 1 + ( N-1 )*INCX, INCX
            ABSXI = ABS( X( IX ) )
            IF( ABSXI.GT.ZERO.OR.DISNAN(
 ABSXI ) ) THEN
               IF( SCALE.LT.ABSXI ) THEN
                  SUMSQ = 1 + SUMSQ*( SCALE / ABSXI )**2
                  SCALE = ABSXI
               ELSE
```

```
              SUMSQ = SUMSQ + ( ABSXI / SCALE )**2
            END IF
          END IF
   10    CONTINUE
     END IF
     RETURN
*
*     End of DLASSQ
*
     END
graph{{GRA_{{GRA_}GRA_}GRA_}}
graph{STRICU}
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// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

package distuv

type LogProber interface {
 LogProb(float64) float64
}

type Rander interface {
 Rand() float64
}

type RandLogProber interface {
 Rander
 LogProber
}

type Quantiler interface {
 Quantile(p float64) float64
}
graph{_____}
graph{"\."}
graph{{nod}}
graph{{NO{NO}}NO{NO}NO{NO}}
graph{{{{DigrJ}DigrT}}}
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// license that can be found in the LICENSE file.

// Package testquad provides integrals for testing quadrature algorithms.
package testquad

import (
 "fmt"
```

```
 "math"
)

// Integral is a definite integral
//  _a^b f(x)dx
// with a known value.
type Integral struct {
 Name  string
 A, B  float64              // Integration limits
 F     func(float64) float64 // Integrand
 Value float64
}

// Constant returns the integral of a constant function
//  _{-1}^2 alpha dx
func Constant(alpha float64) Integral {
 return Integral{
  Name: fmt.Sprintf("_{-1}^{2} %vdx", alpha),
  A:    -1,
  B:    2,
  F: func(float64) float64 {
   return alpha
  },
  Value: 3 * alpha,
 }
}

// Poly returns the integral of a polynomial
//  _{-1}^2 x^degree dx
func Poly(degree int) Integral {
 d := float64(degree)
 return Integral{
  Name: fmt.Sprintf("_{-1}^{2} x^%vdx", degree),
  A:    -1,
  B:    2,
  F:
 func(x float64) float64 {
   return math.Pow(x, d)
  },
  Value: (math.Pow(2, d+1) - math.Pow(-1, d+1)) / (d + 1),
 }
}

// Sin returns the integral
//  _0^1 sin(x)dx
func Sin() Integral {
 return Integral{
  Name: "_0^1 sin(x)dx",
```

```
  A:    0,
  B:    1,
  F: func(x float64) float64 {
   return math.Sin(x)
  },
  Value: 1 - math.Cos(1),
 }
}

// XExpMinusX returns the integral
//  _0^1 x*exp(-x)dx
func XExpMinusX() Integral {
 return Integral{
  Name: "_0^1 x*exp(-x)dx",
  A:    0,
  B:    1,
  F: func(x float64) float64 {
   return x * math.Exp(-x)
  },
  Value: (math.E - 2) / math.E,
 }
}

// Sqrt returns the integral
//  _0^1 sqrt(x)dx
func Sqrt() Integral {
 return Integral{
  Name: "_0^1 sqrt(x)dx",
  A:    0,
  B:    1,
  F: func(x float64) float64 {
   return math.Sqrt(x)
  },
  Value: 2 / 3.0,
 }
}

// ExpOverX2Plus1 returns the integral
//  _0^1 exp(x)/(x*x+1)dx
func ExpOverX2Plus1() Integral {
 return Integral{
  Name: "_0^1 exp(x)/(x*x+1)dx",
  A:    0,
  B:    1,
  F: func(x
 float64) float64 {
   return math.Exp(x) / (x*x + 1)
  },
```

```
  Value: 1.270724139833620220138,
 }
}
graph{{diGrar{diGrar}diGrar}diGrar}
graph{{{{{{{subGrn}subGrb{subGrn}subGrc}{subGrc}{subGrn}}}}}}
graph{{{edgN{{{{edgN{{{{edgN}}edgN}}edgJ}}edgJ}}}}}
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// license that can be found in the LICENSE file.

package distuv

import (
 "math"
 "sort"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/floats"
)

func TestStudentsTProb(t *testing.T) {
 for _, test := range []struct {
  x, mu, sigma, nu, want float64
 }{
  // Values comparison with scipy.
  {0.01, 0, 1, 2.74, 0.364778548181318},
  {-0.01, 0, 1, 2.74, 0.364778548181318},
  {0.4, 0, 1, 1.6, 0.30376391362582678},
  {-0.4, 0, 1, 1.6, 0.30376391362582678},
  {0.2, 15, 5, 10, 0.0024440848858034393},
 } {
  pdf := StudentsT{test.mu, test.sigma, test.nu, nil}.Prob(test.x)
  if !floats.EqualWithinAbsOrRel(pdf, test.want, 1e-10, 1e-10) {
   t.Errorf("Pdf mismatch, x = %v, Nu = %v. Got %v, want %v", test.x, test.nu, pdf, test.want)
  }
 }
}

func TestStudentsT(t *testing.T) {
 src := rand.New(rand.NewSource(1))
 for i, b := range []StudentsT{
  {0, 1, 3.3, src},
  {0, 1,
 7.2, src},
  {0, 1, 12, src},
  {0.9, 0.8, 6, src},
```

```
 } {
  testStudentsT(t, b, i)
 }
}

func testStudentsT(t *testing.T, c StudentsT, i int) {
 const (
  tol  = 1e-2
  n    = 1e5
  bins = 50
 )
 x := make([]float64, n)
 generateSamples(x, c)
 sort.Float64s(x)

 testRandLogProbContinuous(t, i, math.Inf(-1), x, c, tol, bins)
 checkMean(t, i, x, c, tol)
 if c.Nu > 2 {
  checkVarAndStd(t, i, x, c, 5e-2)
 }
 checkProbContinuous(t, i, x, c, 1e-3)
 checkQuantileCDFSurvival(t, i, x, c, tol)
 checkProbQuantContinuous(t, i, x, c, tol)
}

func TestStudentsTQuantile(t *testing.T) {
 nSteps := 101
 probs := make([]float64, nSteps)
 floats.Span(probs, 0, 1)
 for i, b := range []StudentsT{
  {0, 1, 3.3, nil},
  {0, 1, 7.2, nil},
  {0, 1, 12, nil},
  {0.9, 0.8, 6, nil},
 } {
  for _, p := range probs {
   x := b.Quantile(p)
   p2 := b.CDF(x)
   if !floats.EqualWithinAbsOrRel(p, p2, 1e-10, 1e-10) {
    t.Errorf("mismatch between CDF and Quantile. Case %v. Want %v, got %v", i, p, p2)
    break
   }
  }
 }
}
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```

```
package sampleuv

import "gonum.org/v1/gonum/stat/distuv"

type ProposalDist struct {
 Sigma float64
}

func (p ProposalDist) ConditionalRand(y float64) float64 {
 return distuv.Normal{Mu: y, Sigma: p.Sigma}.Rand()
}

func (p ProposalDist) ConditionalLogProb(x, y float64) float64 {
 return distuv.Normal{Mu: y, Sigma: p.Sigma}.LogProb(x)
}

func ExampleMetropolisHastings_burnin() {
 n := 1000    // The number of samples to generate.
 burnin := 50 // Number of samples to ignore at the start.
 var initial float64
 // target is the distribution from which we would like to sample.
 target := distuv.Weibull{K: 5, Lambda: 0.5}
 // proposal is the proposal distribution. Here, we are choosing
 // a tight Gaussian distribution around the current location. In
 // typical problems, if Sigma is too small, it takes a lot of samples
 // to move
 around the distribution. If Sigma is too large, it can be hard
 // to find acceptable samples.
 proposal := ProposalDist{Sigma: 0.2}

 samples := make([]float64, n)
 mh := MetropolisHastings{Initial: initial, Target: target, Proposal: proposal, BurnIn: burnin}
 mh.Sample(samples)
}
graph{{{{{{subGras{{subGrax}}subGrau}{{{subGrax}}}}{{{{subGrax}}subGrau}}{{subGras{{}}subGrau}}{{
{<>}subGrau}subGrax}}}}}
graph{diGra{diGra}{diGra}}
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package path

import (
 "math"

 "gonum.org/v1/gonum/graph"
```

```
)

// FloydWarshall returns a shortest-path tree for the graph g or false indicating
// that a negative cycle exists in the graph. If a negative cycle exists in the graph
// the returned paths will be valid and edge weights on the negative cycle will be
// set to -Inf. If the graph does not implement Weighted, UniformCost is used.
//
// The time complexity of FloydWarshall is O(|V|^3).
func FloydWarshall(g graph.Graph) (paths AllShortest, ok bool) {
 var weight Weighting
 if wg, ok := g.(Weighted); ok {
  weight = wg.Weight
 } else {
  weight = UniformCost(g)
 }

 nodes := graph.NodesOf(g.Nodes())
 paths = newAllShortest(nodes, true)
 for i, u := range nodes {
  paths.dist.Set(i, i, 0)
  uid := u.ID()
  to := g.From(uid)
  for to.Next() {
   vid := to.Node().ID()
   j
:= paths.indexOf[vid]
   w, ok := weight(uid, vid)
   if !ok {
    panic("floyd-warshall: unexpected invalid weight")
   }
   paths.set(i, j, w, j)
  }
 }

 for k := range nodes {
  for i := range nodes {
   for j := range nodes {
    ij := paths.dist.At(i, j)
    joint := paths.dist.At(i, k) + paths.dist.At(k, j)
    if ij > joint {
     paths.set(i, j, joint, paths.at(i, k)...)
    } else if ij-joint == 0 {
     paths.add(i, j, paths.at(i, k)...)
    }
   }
  }
 }
```

```
 ok = true
 for i := range nodes {
  if paths.dist.At(i, i) < 0 {
   ok = false
   break
  }
 }

 if !ok {
  // If we have a negative cycle, mark all
  // the edges in the cycles with NaN(0xdefaced)
  // weight. These weights are internal, being
  // returned as -Inf in user calls.

  d := paths.dist
  for i := range nodes {
   for j := range nodes {
    for k := range nodes {
     if math.IsInf(d.At(i, k), 1) || math.IsInf(d.At(k, j), 1) {
      continue
     }
     if d.At(k, k) < 0 {
      d.Set(k, k, defaced)
      d.Set(i,
 j, defaced)
     } else if math.Float64bits(d.At(k, k)) == defacedBits {
      d.Set(i, j, defaced)
     }
    }
   }
  }
 }

 return paths, ok
}
graph{{Str5}Str5}
graph{{diGrapg}{diGrapg}{diGrapg}}
graph{edN{edG}{edG}}
digraph{gs->gt[r=n]n->s[r=e]n->gt[r=n]n->s[r=e]n->s->s[r=n]n->c[r=n]gt[r=n]n->r[r=e]n->s[r=n]a:gs->c[r=e]s-
>i[r=n]s->t[r=n]s->t[r=n]s->c[r=n]t->e[r=e]t->c[r=n]t->c[r=n]t->r[r=e]t->e[r=n]c->c[r=n]c->r[r=e]r->t[r=e]r-
>f[r=e]r->r[r=e]e->s[r=d]e->f[r=d]e->d[r=n]s->e[r=n]s->n[r=n]s->t[r=n]s->e[r=e]}
graph{{s{{s}s}}s{{s}s}}
graph{{{grape{grapg}}}}
graph{{DIGRC DIGRB}{DIGRC{DIGRB}DIGRB}}
graph{"\a"}
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```

```
// +build !noasm,!appengine,!safe

package f64

// Ger performs the rank-one operation
//  A += alpha * x * y
// where A is an mn dense matrix, x and y are vectors, and alpha is a scalar.
func Ger(m, n uintptr, alpha float64, x []float64, incX uintptr, y []float64, incY uintptr, a []float64, lda uintptr)

// GemvN computes
//  y = alpha * A * x + beta * y
// where A is an mn dense matrix, x and y are vectors, and alpha and beta are scalars.
func GemvN(m, n uintptr, alpha float64, a []float64, lda uintptr, x []float64, incX uintptr, beta float64, y []float64,
incY uintptr)

// GemvT computes
//  y = alpha * A * x + beta * y
// where A is an mn dense matrix, x and y are vectors, and alpha and beta are scalars.
func GemvT(m, n uintptr, alpha float64, a []float64, lda uintptr, x []float64, incX uintptr, beta float64, y []float64,
 incY uintptr)
graph{{{{DiGrr{{{DiGre}}DiGru}}DiGrr{{{DiGre}}DiGru}}}DiGru}
graph{{{gra{{gra}}gra{{gra{{{gra}gra{{{gra{gra}gra}}}gra}}gra}}}}}
graph{{d3{d9{d3{d9}{d9}{d9}}}}}
graph{{{subgr{{{subgr{}subgr}}}subgr}}}
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// Package cblas128 provides a simple interface to the complex128 BLAS API.
package cblas128 // import "gonum.org/v1/gonum/blas/cblas128"
graph{{{graph_{}graph_{{graph_{}graph_}}}}graph_}
graph
{node[f=4][f=8][f=2][f=2][f=3][f=7][f=2][f=4][f=6][f=6][f=4][f=4][f=9][f=4][D=4][f=4][f=4][f=4][f=1][f=4][f=6][
f=6][f=4][f=1][f=6][f=1][f=2][f=7][f=8][f=2][f=2][f=3][f=7][f=2][f=4][f=6][f=6][d=4][f=4][f=9][f=4][f=4][f=4][f=
4][f=4][f=1][f=4][f=6][f=6][f=4][f=1][f=6][f=1][f=2][f=7][f=1][f=1][f=1][f=1][f=8][f=1][f=1][f=1][f=1][f=1][f=8][
f=1][f=3][f=5][f=1][f=1][f=1][f=9]}
graph{{{{{{{{{{{EDG8}}}EDG4}}}}}}EDG4}}}
graph{"\\\
```

```
graph{{SubG}{SubG}{SubG{}{SubG}SubGb}{SubG{{SubG}{SubG}SubG}{{}}}}
// SPDX-License-Identifier: Unlicense OR MIT

package text

import (
 "golang.org/x/image/font"
 "unicode/utf8"

 "gioui.org/op"
 "gioui.org/unit"
 "golang.org/x/image/math/fixed"
)

// Shaper implements layout and shaping of text and a cache of
// computed results.
//
// Specify the default and fallback font by calling Register with the
// empty Font.
type Shaper struct {
 def   Typeface
 faces map[Font]*face
}

type face struct {
 face        Face
 layoutCache layoutCache
 pathCache   pathCache
}

func (s *Shaper) Register(font Font, tf Face) {
 if s.faces == nil {
  s.def = font.Typeface
  s.faces = make(map[Font]*face)
 }
 // Treat all font sizes equally.
 font.Size = unit.Value{}
 if font.Weight == 0 {
  font.Weight = Normal
 }
 s.faces[font] = &face{
  face: tf,
 }
}

func (s *Shaper) Layout(c unit.Converter, font Font, str string, opts LayoutOptions) *Layout {
 tf := s.faceForFont(font)
 return tf.layout(fixed.I(c.Px(font.Size)), str, opts)
```

```
}

func (s *Shaper) Shape(c unit.Converter,
 font Font, str String) op.CallOp {
 tf := s.faceForFont(font)
 return tf.shape(fixed.I(c.Px(font.Size)), str)
}

func (s *Shaper) Metrics(c unit.Converter, font Font) font.Metrics {
 tf := s.faceForFont(font)
 return tf.metrics(fixed.I(c.Px(font.Size)))
}

func (s *Shaper) faceForStyle(font Font) *face {
 tf := s.faces[font]
 if tf == nil {
  font := font
  font.Weight = Normal
  tf = s.faces[font]
 }
 if tf == nil {
  font := font
  font.Style = Regular
  tf = s.faces[font]
 }
 if tf == nil {
  font := font
  font.Style = Regular
  font.Weight = Normal
  tf = s.faces[font]
 }
 return tf
}

func (s *Shaper) faceForFont(font Font) *face {
 font.Size = unit.Value{}
 tf := s.faceForStyle(font)
 if tf == nil {
  font.Typeface = s.def
  tf = s.faceForStyle(font)
 }
 return tf
}

func (t *face) layout(ppem fixed.Int26_6, str string, opts LayoutOptions) *Layout {
 if t == nil {
  return fallbackLayout(str)
 }
```

```
 lk := layoutKey{
  ppem: ppem,
  str:  str,
  opts: opts,
 }
 if l, ok := t.layoutCache.Get(lk);
 ok {
  return l
 }
 l := t.face.Layout(ppem, str, opts)
 t.layoutCache.Put(lk, l)
 return l
}

func (t *face) shape(ppem fixed.Int26_6, str String) op.CallOp {
 if t == nil {
  return op.CallOp{}
 }
 pk := pathKey{
  ppem: ppem,
  str:  str.String,
 }
 if clip, ok := t.pathCache.Get(pk); ok {
  return clip
 }
 clip := t.face.Shape(ppem, str)
 t.pathCache.Put(pk, clip)
 return clip
}

func (t *face) metrics(ppem fixed.Int26_6) font.Metrics {
 return t.face.Metrics(ppem)
}

func fallbackLayout(str string) *Layout {
 l := &Layout{
  Lines: []Line{
   {Text: String{
    String: str,
   }},
  },
 }
 strlen := utf8.RuneCountInString(str)
 l.Lines[0].Text.Advances = make([]fixed.Int26_6, strlen)
 return l
}
graph{{{gr_{}gr_}}}
```

```
graph{SubGr}
graph{SubGp{SubGp}{SubGp{SubGp}}SubGh{SubGp}{SubGp<>SubGp}{}}
graph{<<ggggrgggg>>}
graph{{<><>}<><>}
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package gonum

import (
 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
)

// Dgetrf computes the LU decomposition of the mn matrix A.
// The LU decomposition is a factorization of A into
//  A = P * L * U
// where P is a permutation matrix, L is a unit lower triangular matrix, and
// U is a (usually) non-unit upper triangular matrix. On exit, L and U are stored
// in place into a.
//
// ipiv is a permutation vector. It indicates that row i of the matrix was
// changed with ipiv[i]. ipiv must have length at least min(m,n), and will panic
// otherwise. ipiv is zero-indexed.
//
// Dgetrf is the blocked version of the algorithm.
//
// Dgetrf returns whether the matrix A is singular. The LU decomposition will
// be computed regardless of the singularity of A, but division by zero
// will occur if the false is returned
 and the result is used to solve a
// system of equations.
func (impl Implementation) Dgetrf(m, n int, a []float64, lda int, ipiv []int) (ok bool) {
 mn := min(m, n)
 switch {
 case m < 0:
  panic(mLT0)
 case n < 0:
  panic(nLT0)
 case lda < max(1, n):
  panic(badLdA)
 }

 // Quick return if possible.
 if mn == 0 {
  return true
 }
```

```
 switch {
 case len(a) < (m-1)*lda+n:
  panic(shortA)
 case len(ipiv) != mn:
  panic(badLenIpiv)
 }

 bi := blas64.Implementation()

 nb := impl.Ilaenv(1, "DGETRF", " ", m, n, -1, -1)
 if nb <= 1 || mn <= nb {
  // Use the unblocked algorithm.
  return impl.Dgetf2(m, n, a, lda, ipiv)
 }
 ok = true
 for j := 0; j < mn; j += nb {
  jb := min(mn-j, nb)
  blockOk := impl.Dgetf2(m-j, jb, a[j*lda+j:], lda, ipiv[j:j+jb])
  if !blockOk {
   ok = false
  }
  for i := j; i <= min(m-1, j+jb-1); i++ {
   ipiv[i] = j + ipiv[i]
  }
  impl.Dlaswp(j, a, lda, j, j+jb-1, ipiv[:j+jb], 1)
  if j+jb < n {
   impl.Dlaswp(n-j-jb, a[j+jb:], lda, j, j+jb-1, ipiv[:j+jb], 1)
   bi.Dtrsm(blas.Left,
 blas.Lower, blas.NoTrans, blas.Unit,
    jb, n-j-jb, 1,
    a[j*lda+j:], lda,
    a[j*lda+j+jb:], lda)
   if j+jb < m {
    bi.Dgemm(blas.NoTrans, blas.NoTrans, m-j-jb, n-j-jb, jb, -1,
     a[(j+jb)*lda+j:], lda,
     a[j*lda+j+jb:], lda,
     1, a[(j+jb)*lda+j+jb:], lda)
   }
  }
 }
 return ok
}
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```

```
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package quat

import "math"

// IsInf returns true if any of real(q), imag(q), jmag(q), or kmag(q) is an infinity.
func IsInf(q Number) bool {
 return math.IsInf(q.Real, 0) || math.IsInf(q.Imag, 0) || math.IsInf(q.Jmag, 0) || math.IsInf(q.Kmag, 0)
}

// Inf returns a quaternion infinity, quaternion(+Inf, +Inf, +Inf, +Inf).
func Inf() Number {
 inf := math.Inf(1)
 return Number{Real: inf, Imag: inf, Jmag: inf, Kmag: inf}
}
graph{{{{No_{{No_}No_}No_}}No_}No_}
graph{NOA{NOA{NOA{{NOA{NOA{NOA}{NOA{NOA}}}NOA}}}NOA}}
graph{{{e}e}}
graph{{diGrapg}{diGrapg}{diGrapg}{diGrapd}}
graph{{Stricc{Strica-9Strica-9Strica-9Strica-9Strica-9Strica-9Strica-9Strica-9Strica-9Strica}Strica-9Strica-9Strica-
9Strica-9Strica-9Strica}}
graph{{SubGrar}{SubGrat}{SubGrat}{SubGrau}{SubGrat}SubGrat}
graph{Digrap7}
graph{{Digr0}{Digr0{Digr0}{Digr0}}}
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// Package optimize implements algorithms for finding the optimum value of functions.
package optimize // import "gonum.org/v1/gonum/optimize"
graph{subh{subn}}
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package mat_test

import (
 "fmt"
 "log"

 "gonum.org/v1/gonum/mat"
)

func ExampleHOGSVD() {
 // Perform an HOGSVD factorization on food production/consumption data for the
```

```
// three years 1990, 2000 and 2014.
//
// See Ponnapalli et al. doi:10.1371/journal.pone.0028072 and
// Alter at al. doi:10.1073/pnas.0530258100 for more details.
var gsvd mat.HOGSVD
ok := gsvd.Factorize(FAO.Africa, FAO.Asia, FAO.LatinAmericaCaribbean, FAO.Oceania)
if !ok {
 log.Fatalf("HOGSVD factorization failed: %v", gsvd.Err())
}

for i, n := range []string{"Africa", "Asia", "Latin America/Caribbean", "Oceania"} {
 var u mat.Dense
 gsvd.UTo(&u, i)
 s := gsvd.Values(nil, i)
 fmt.Printf("%s\n\ts_%d = %.4f\n\n\tU_%[2]d = %.4[4]f\n",
  n, i, s, mat.Formatted(&u, mat.Prefix("\t      ")))
}

var v mat.Dense
gsvd.VTo(&v)
fmt.Printf("\nCommon
basis vectors\n\n\tV =  %.4f",
 mat.Formatted(v.T(), mat.Prefix("\t      ")))

// Output:
//
// Africa
//  s_0 = [45507.3278 18541.9293 21503.0778]
//
//  U_0 = -0.0005  -0.0039  -0.0019
//        -0.0010  -0.0007  -0.0012
//        -1.0000  -0.0507  -0.9964
//        -0.0022  -0.2906  -0.0415
//         0.0001  -0.0127  -0.0016
//         0.0003  -0.0067  -0.0010
//         0.0003  -0.0022  -0.0003
//        -0.0086  -0.9550   0.0734
//         0.0017   0.0002   0.0059
//        -0.0002  -0.0088  -0.0014
//        -0.0006  -0.0078  -0.0001
//        -0.0005  -0.0076   0.0003
//         0.0001  -0.0090   0.0008
//        -0.0005  -0.0050   0.0029
//        -0.0011  -0.0078  -0.0012
//        -0.0014  -0.0058  -0.0002
//         0.0007  -0.0095   0.0020
//        -0.0008  -0.0081  -0.0009
//         0.0004  -0.0092   0.0006
```

```
//       -0.0007  -0.0079  -0.0006
//       -0.0011  -0.0076  -0.0010
// Asia
//  s_1 = [77228.2804 8413.7024 14711.1879]
//
//  U_1
=  0.0005  -0.0080   0.0011
//        0.0008  -0.0108   0.0016
//       -0.9998   0.0612   0.9949
//        0.0007  -0.5734  -0.0468
//        0.0001  -0.0265  -0.0022
//        0.0001  -0.0165  -0.0019
//        0.0000  -0.0070  -0.0013
//        0.0196  -0.8148   0.0893
//        0.0002  -0.0063   0.0012
//       -0.0001  -0.0135  -0.0013
//       -0.0004  -0.0135   0.0019
//       -0.0005  -0.0132   0.0014
//        0.0003  -0.0155   0.0045
//       -0.0003  -0.0130   0.0025
//       -0.0007  -0.0105   0.0016
//       -0.0006  -0.0129   0.0007
//       -0.0006  -0.0178  -0.0023
//       -0.0003  -0.0149   0.0016
//       -0.0001  -0.0134   0.0030
//       -0.0004  -0.0154   0.0010
//       -0.0009  -0.0147  -0.0019
// Latin America/Caribbean
//  s_2 = [274.1364 20736.3116 729.6947]
//
//  U_2 =  0.1060  -0.0021   0.0174
//        0.1415  -0.0016   0.0289
//        0.2350  -0.2669  -0.9212
//        0.0290  -0.0118  -0.0429
//
    0.0226  -0.0043  -0.0213
//        0.0117  -0.0016  -0.0197
//       -0.6263  -0.9635   0.2234
//        0.2334  -0.0013   0.1275
//       -0.0358  -0.0085  -0.0498
//       -0.1238  -0.0054   0.0313
//       -0.0421  -0.0059   0.0528
//       -0.1471  -0.0056   0.0350
//       -0.2158  -0.0052  -0.0044
//       -0.6154  -0.0078  -0.2717
// Oceania
//  s_3 = [8954.1914 6942.6316 17233.0561]
//
```

```
 //  U_3 = -0.0080  -0.0012  -0.0040
 //         0.0004  -0.0014   0.0001
 //         0.9973  -0.0315   0.9991
 //         0.0473  -0.7426  -0.0359
 //         0.0018  -0.0342  -0.0020
 //        -0.0005  -0.0148  -0.0016
 //        -0.0004  -0.0047  -0.0007
 //        -0.0246  -0.6642  -0.0138
 //         0.0003  -0.0287  -0.0023
 //        -0.0011  -0.0148  -0.0014
 //        -0.0108  -0.0198  -0.0039
 //        -0.0149  -0.0183  -0.0048
 //        -0.0178  -0.0208  -0.0075
 //        -0.0266  -0.0063  -0.0016
 //        -0.0012  -0.0234  -0.0006
 //        -0.0084  -0.0184
  -0.0030
 //        -0.0232  -0.0191  -0.0124
 //        -0.0072  -0.0226  -0.0035
 //        -0.0150  -0.0144  -0.0045
 //        -0.0068  -0.0227  -0.0034
 //        -0.0127  -0.0136  -0.0049
 //
 // Common basis vectors
 //
 //  V =  -0.0897  -0.4460  -0.8905
 //        -0.4911  -0.5432  -0.6810
 //         0.0644   0.2841   0.9566
}
graph{diGS}
# [<img src="https://avatars1.githubusercontent.com/u/3771091?v=3&s=30">](https://github.com/gonum) Working Together

The Gonum project welcomes contributions from all. Contributors should foster an open and welcoming environment. When contributing or otherwise participating, please:

- Be friendly and welcoming
- Be patient
- Be thoughtful
- Be respectful
- Be charitable
- Avoid destructive behavior

Excerpted from the [Go conduct document](https://golang.org/conduct).
graph{GRAPU{{GRAPU{GRAPU}{GRAPU}GRAPU{GRAPU}}}}
graph{_____}
graph{E4}
```

```
digraph {subgraD}
graph{{{{SUBGRAP}}}}
graph{<<3469446951953614188823848965684341886080801486968994406252783813476562 5>>}
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// license that can be found in the LICENSE file.

package testlapack

import (
 "testing"

 "gonum.org/v1/gonum/blas"
)

type Dlauumer interface {
 Dlauum(uplo blas.Uplo, n int, a []float64, lda int)
}

func DlauumTest(t *testing.T, impl Dlauumer) {
 for _, uplo := range []blas.Uplo{blas.Upper, blas.Lower} {
  name := "Upper"
  if uplo == blas.Lower {
   name = "Lower"
  }
  t.Run(name, func(t *testing.T) {
   // Include small and large sizes to make sure that both
   // unblocked and blocked paths are taken.
   ns := []int{0, 1, 2, 3, 4, 5, 10, 25, 31, 32, 33, 63, 64, 65, 127, 128, 129}
   dlauuTest(t, impl.Dlauum, uplo, ns)
  })
 }
}
graph{{{subgJ{{{{{subgJ{}subgO}}}}}}subgJ{}subgO}}
graph{SubGp{SubGp}SubGp}
graph{{EDG4{{{{EDG9{{{{{EDG9}{EDG9}}}EDG4}}}}}EDG4}}}
graph{{{subgJ{{{{{subgJ{}subgO}}}}}}}}
graph{{die{die{die}die}die}}
graph{{{{EB}}EB}}
graph{{{subg}}}
graph{{_2F}}
graph{Grapu}
graph{{DiGrap8}DiGrap8}
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package distuv
```

```
import (
 "sort"
 "testing"

 "golang.org/x/exp/rand"
)

func TestBernouilli(t *testing.T) {
 src := rand.New(rand.NewSource(1))
 for i, dist := range []Bernoulli{
  {P: 0.5, Src: src},
  {P: 0.9, Src: src},
  {P: 0.2, Src: src},
 } {
  testBernouilli(t, dist, i)
 }
}

func testBernouilli(t *testing.T, dist Bernoulli, i int) {
 const (
  tol  = 1e-2
  n    = 3e6
  bins = 50
 )
 x := make([]float64, n)
 generateSamples(x, dist)
 sort.Float64s(x)

 checkMean(t, i, x, dist, tol)
 checkVarAndStd(t, i, x, dist, tol)
 checkEntropy(t, i, x, dist, tol)
 checkExKurtosis(t, i, x, dist, tol)
 checkSkewness(t, i, x, dist, tol)
 checkProbDiscrete(t, i, x, dist, tol)
}
Graph{{{{{{subgre{{subgre}}subgro}subgre}}subgro}}}
graph{{{GRU{GRR}GRU}{GRU}}}
graph{{SU}SU}
graph{{{{{EDG9{{{{{EDG9}{EDG9}}}EDG4}}}{{EDG9{{{{{EDG9}{EDG9}}}EDG4}}}}}EDG4}}}
graph{Sub_}
graph{{{Edga}{Edga}{Edga}Edga Edga}Edga Edga}
graph{GRAPp{GRAPp{GRAPe}{GRAPe}}}
graph{"""""""}
graph{Subg_{Subg_{{Subg_}{Subg_{Subg_{Subg_}}}}}}
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```

```
package quat_test

import (
 "fmt"
 "math"

 "gonum.org/v1/gonum/floats"
 "gonum.org/v1/gonum/num/quat"
)

// point is a 3-dimensional point/vector.
type point struct {
 x, y, z float64
}

// raise raises the dimensionality of a point to a quaternion.
func raise(p point) quat.Number {
 return quat.Number{Imag: p.x, Jmag: p.y, Kmag: p.z}
}

// rotate performs the quaternion rotation of p by the given quaternion
// and scaling by the scale factor.
func rotate(p point, by quat.Number, scale float64) point {
 // Ensure the modulus of by is correctly scaled.
 if len := quat.Abs(by); len != scale {
  by = quat.Scale(math.Sqrt(scale)/len, by)
 }

 // Perform the rotation/scaling.
 pp := quat.Mul(quat.Mul(by, raise(p)), quat.Conj(by))

 // Extract the point.
 return point{x: pp.Imag, y: pp.Jmag, z: pp.Kmag}
}

// Rotate a cube 120 around
 the diagonal vector [1, 1, 1].
func Example_rotate() {
 alpha := 2 * math.Pi / 3
 q := raise(point{1, 1, 1})
 scale := 1.0

 q = quat.Scale(math.Sin(alpha/2)/quat.Abs(q), q)
 q.Real += math.Cos(alpha / 2)

 for i, p := range []point{
  {x: 0, y: 0, z: 0},
```

```
  {x: 0, y: 0, z: 1},
  {x: 0, y: 1, z: 0},
  {x: 0, y: 1, z: 1},
  {x: 1, y: 0, z: 0},
  {x: 1, y: 0, z: 1},
  {x: 1, y: 1, z: 0},
  {x: 1, y: 1, z: 1},
 } {
  pp := rotate(p, q, scale)

  // Clean up floating point error for clarity.
  pp.x = floats.Round(pp.x, 2)
  pp.y = floats.Round(pp.y, 2)
  pp.z = floats.Round(pp.z, 2)

  fmt.Printf("%d %+v -> %+v\n", i, p, pp)
 }

 // Output:
 //
 // 0 {x:0 y:0 z:0} -> {x:0 y:0 z:0}
 // 1 {x:0 y:0 z:1} -> {x:1 y:0 z:0}
 // 2 {x:0 y:1 z:0} -> {x:0 y:0 z:1}
 // 3 {x:0 y:1 z:1} -> {x:1 y:0 z:1}
 // 4 {x:1 y:0 z:0} -> {x:0 y:1 z:0}
 // 5 {x:1 y:0 z:1} -> {x:1 y:1 z:0}
 // 6 {x:1 y:1 z:0} -> {x:0 y:1 z:1}
 // 7 {x:1 y:1 z:1} -> {x:1 y:1 z:1}
}
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package gonum

import (
 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
)

// Dorg2r generates an mn matrix Q with orthonormal columns defined by the
// product of elementary reflectors as computed by Dgeqrf.
//  Q = H_0 * H_1 * ... * H_{k-1}
// len(tau) >= k, 0 <= k <= n, 0 <= n <= m, len(work) >= n.
// Dorg2r will panic if these conditions are not met.
//
// Dorg2r is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dorg2r(m, n, k int, a []float64, lda int, tau []float64, work []float64) {
```

```
switch {
case m < 0:
 panic(mLT0)
case n < 0:
 panic(nLT0)
case n > m:
 panic(nGTM)
case k < 0:
 panic(kLT0)
case k > n:
 panic(kGTN)
case lda < max(1, n):
 panic(badLdA)
}

if n == 0 {
 return
}

switch {
case len(a) < (m-1)*lda+n:
 panic(shortA)
case len(tau) < k:
 panic(shortTau)
case
len(work) < n:
 panic(shortWork)
}

bi := blas64.Implementation()

// Initialize columns k+1:n to columns of the unit matrix.
for l := 0; l < m; l++ {
 for j := k; j < n; j++ {
  a[l*lda+j] = 0
 }
}
for j := k; j < n; j++ {
 a[j*lda+j] = 1
}
for i := k - 1; i >= 0; i-- {
 for i := range work {
  work[i] = 0
 }
 if i < n-1 {
  a[i*lda+i] = 1
  impl.Dlarf(blas.Left, m-i, n-i-1, a[i*lda+i:], lda, tau[i], a[i*lda+i+1:], lda, work)
 }
```

```
  if i < m-1 {
   bi.Dscal(m-i-1, -tau[i], a[(i+1)*lda+i:], lda)
  }
  a[i*lda+i] = 1 - tau[i]
  for l := 0; l < i; l++ {
   a[l*lda+i] = 0
  }
 }
}
graph{{D55{{D5555}}}}
graph{"\"\"\"\"\"\"\"\"\""}
graph{{SU_}SU_{}SU_}
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package mat

// TriKind represents the triangularity of the matrix.
type TriKind bool

const (
 // Upper specifies an upper triangular matrix.
 Upper TriKind = true
 // Lower specifies a lower triangular matrix.
 Lower TriKind = false
)
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package gonum

import (
 "math"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
 "gonum.org/v1/gonum/lapack"
)

// Dgecon estimates the reciprocal of the condition number of the nn matrix A
// given the LU decomposition of the matrix. The condition number computed may
// be based on the 1-norm or the -norm.
//
// The slice a contains the result of the LU decomposition of A as computed by Dgetrf.
//
// anorm is the corresponding 1-norm or -norm of the original matrix A.
```

```
//
// work is a temporary data slice of length at least 4*n and Dgecon will panic otherwise.
//
// iwork is a temporary data slice of length at least n and Dgecon will panic otherwise.
func (impl Implementation) Dgecon(norm lapack.MatrixNorm, n int, a []float64, lda int, anorm float64, work
[]float64, iwork []int) float64 {
 switch {
 case norm !=
 lapack.MaxColumnSum && norm != lapack.MaxRowSum:
  panic(badNorm)
 case n < 0:
  panic(nLT0)
 case lda < max(1, n):
  panic(badLdA)
 }

 // Quick return if possible.
 if n == 0 {
  return 1
 }

 switch {
 case len(a) < (n-1)*lda+n:
  panic(shortA)
 case len(work) < 4*n:
  panic(shortWork)
 case len(iwork) < n:
  panic(shortIWork)
 }

 // Quick return if possible.
 if anorm == 0 {
  return 0
 }

 bi := blas64.Implementation()
 var rcond, ainvnm float64
 var kase int
 var normin bool
 isave := new([3]int)
 onenrm := norm == lapack.MaxColumnSum
 smlnum := dlamchS
 kase1 := 2
 if onenrm {
  kase1 = 1
 }
 for {
  ainvnm, kase = impl.Dlacn2(n, work[n:], work, iwork, ainvnm, kase, isave)
```

```
 if kase == 0 {
  if ainvnm != 0 {
   rcond = (1 / ainvnm) / anorm
  }
  return rcond
 }
 var sl, su float64
 if kase == kase1 {
  sl = impl.Dlatrs(blas.Lower, blas.NoTrans, blas.Unit, normin, n, a, lda, work, work[2*n:])
  su = impl.Dlatrs(blas.Upper, blas.NoTrans, blas.NonUnit, normin, n, a, lda,
work, work[3*n:])
 } else {
  su = impl.Dlatrs(blas.Upper, blas.Trans, blas.NonUnit, normin, n, a, lda, work, work[3*n:])
  sl = impl.Dlatrs(blas.Lower, blas.Trans, blas.Unit, normin, n, a, lda, work, work[2*n:])
 }
 scale := sl * su
 normin = true
 if scale != 1 {
  ix := bi.Idamax(n, work, 1)
  if scale == 0 || scale < math.Abs(work[ix])*smlnum {
   return rcond
  }
  impl.Drscl(n, scale, work, 1)
 }
}
}
graph{{"1_1_BO{s4TupuTsd_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""
siQ0p2wJVKq9_9vW_0_YXH3_9tuvOtt3AdM6_esq_5_0wvni{}o1h1PyG1YOedae{s4TupuTsd_3_3VO1_1wgYc
8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""siQ0p2wJVKq9_9vW_0_YXH3_9tuvOtt3AdM
6_esq_5_0wvni{W}o1h1PyG1YOedae{s4TupuTsd_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH
7G1_ZAB_8tO9W}""siQ0p2wJVKq9_9vW_0_YXH3_9tuvOtt3AdM6_esq_5_0wvni{W}Gr_Gr_Gr_Gr_Gr_Gr_{s
4TupuTsd_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}"}}
graph{st}
graph{GRAP}
digraph {
 bgcolor=transparent
 A
}
graph{{DIGR{DIGR}}}
graph{<e>}
graph{{{grapj{grapr}{gQ}}}}
graph{{SUBG_}SUBG_{SUBG_}{SUBG_}{SUBG_}}
graph{SubGraphg}
graph{<"\}\>}
graph{{{DIGRAPA}{DIGRAPA}DIGRAPA}}
graph{{st}st}
graph{{d{{d}}}}
```

Gonum floats
[![GoDoc](https://godoc.org/gonum.org/v1/gonum/floats?status.svg)](https://godoc.org/gonum.org/v1/gonum/floats
)

Package floats provides a set of helper routines for dealing with slices of float64.
The functions avoid allocations to allow for use within tight loops without garbage collection overhead.
graph{{{subGG}subGT{subGG}}}
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```
package testlapack

import (
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/floats"
)

type Dorgl2er interface {
 Dgelqfer
 Dorgl2(m, n, k int, a []float64, lda int, tau []float64, work []float64)
}

func Dorgl2Test(t *testing.T, impl Dorgl2er) {
 rnd := rand.New(rand.NewSource(1))
 for _, test := range []struct {
  m, n, lda int
 }{
  {3, 3, 0},
  {3, 4, 0},

  {5, 5, 20},
  {5, 10, 20},
 } {
  m := test.m
  n := test.n
  lda := test.lda
  if lda == 0 {
   lda = test.n
  }
  a := make([]float64, m*lda)
  for i := range a {
   a[i] = rnd.NormFloat64()
  }
  k := min(m, n)
```

```
 tau := make([]float64, k)
 work := make([]float64, 1)
 impl.Dgelqf(m, n, a, lda, tau, work, -1)
 work = make([]float64, int(work[0]))
 impl.Dgelqf(m, n, a, lda, tau, work, len(work))

 q := constructQ("LQ", m, n, a, lda, tau)

 impl.Dorgl2(m,
n, k, a, lda, tau, work)

 // Check that the first m rows match.
 same := true
 for i := 0; i < m; i++ {
  for j := 0; j < n; j++ {
   if !floats.EqualWithinAbsOrRel(q.Data[i*q.Stride+j], a[i*lda+j], 1e-12, 1e-12) {
    same = false
    break
   }
  }
 }
 if !same {
  t.Errorf("Q mismatch")
 }
}
}
graph{{GRAPHe}GRAPHe}
graph{"\Z"}
graph{{st}st{st}st}
graph{su}
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package testlapack

import (
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/floats"
)

type Dgeqrfer interface {
 Dgeqr2er
 Dgeqrf(m, n int, a []float64, lda int, tau, work []float64, lwork int)
}
```

```
func DgeqrfTest(t *testing.T, impl Dgeqrfer) {
 const tol = 1e-12
 rnd := rand.New(rand.NewSource(1))
 for c, test := range []struct {
  m, n, lda int
 }{
  {10, 5, 0},
  {5, 10, 0},
  {10, 10, 0},
  {300, 5, 0},
  {3, 500, 0},
  {200, 200, 0},
  {300, 200, 0},
  {204, 300, 0},
  {1, 3000, 0},
  {3000, 1, 0},
  {10, 5, 20},
  {5, 10, 20},
  {10, 10, 20},
  {300, 5, 400},
  {3, 500, 600},
  {200, 200, 300},
  {300, 200, 300},
  {204, 300, 400},
  {1, 3000, 4000},
  {3000, 1, 4000},
 } {
  m := test.m
  n := test.n
  lda := test.lda
  if lda == 0 {
   lda = test.n
  }

  // Allocate mn matrix A and fill it with random numbers.
  a
 := make([]float64, m*lda)
  for i := range a {
   a[i] = rnd.NormFloat64()
  }
  // Store a copy of A for later comparison.
  aCopy := make([]float64, len(a))
  copy(aCopy, a)

  // Allocate a slice for scalar factors of elementary reflectors
  // and fill it with random numbers.
  tau := make([]float64, n)
```

```
  for i := 0; i < n; i++ {
   tau[i] = rnd.Float64()
  }

  // Compute the expected result using unblocked QR algorithm and
  // store it in want.
  want := make([]float64, len(a))
  copy(want, a)
  impl.Dgeqr2(m, n, want, lda, tau, make([]float64, n))

  for _, wl := range []worklen{minimumWork, mediumWork, optimumWork} {
   copy(a, aCopy)

   var lwork int
   switch wl {
   case minimumWork:
    lwork = n
   case mediumWork:
    work := make([]float64, 1)
    impl.Dgeqrf(m, n, a, lda, tau, work, -1)
    lwork = int(work[0]) - 2*n
   case optimumWork:
    work := make([]float64, 1)
    impl.Dgeqrf(m, n, a, lda, tau, work, -1)
    lwork = int(work[0])
   }
   work := make([]float64,
 lwork)

   // Compute the QR factorization of A.
   impl.Dgeqrf(m, n, a, lda, tau, work, len(work))
   // Compare the result with Dgeqr2.
   if !floats.EqualApprox(want, a, tol) {
    t.Errorf("Case %v, workspace %v, unexpected result.", c, wl)
   }
  }
 }
}
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package sampleuv

import (
 "testing"

 "golang.org/x/exp/rand"
```

```
 "gonum.org/v1/gonum/floats"
)

func TestWithoutReplacement(t *testing.T) {
 for cas, test := range []struct {
  N      int
  K      int
  Src    *rand.Rand
  Trials int
  Tol    float64
 }{
  {
   // Test with perm and source.
   N: 10, K: 5, Src: rand.New(rand.NewSource(1)),
   Trials: 100000, Tol: 1e-3,
  },
  {
   // Test without perm and with source.
   N: 10, K: 3, Src: rand.New(rand.NewSource(1)),
   Trials: 100000, Tol: 1e-3,
  },
 } {
  dist := make([]float64, test.N)
  for trial := 0; trial < test.Trials; trial++ {
   idxs := make([]int, test.K)
   WithoutReplacement(idxs, test.N, test.Src)

   allDiff := true
   for i := 0; i < len(idxs); i++ {
    v := idxs[i]
    for j := i + 1; j < len(idxs); j++ {
     if v == idxs[j] {
      allDiff = false
      break
     }
    }
   }
   if
 !allDiff {
    t.Errorf("Cas %d: Repeat in sampling. Idxs =%v", cas, idxs)
   }
   for _, v := range idxs {
    dist[v]++
   }
  }
  div := 1 / (float64(test.Trials) * float64(test.K))
  floats.Scale(div, dist)
```

```
  want := make([]float64, test.N)
  for i := range want {
   want[i] = 1 / float64(test.N)
  }
  if !floats.EqualApprox(want, dist, test.Tol) {
   t.Errorf("Cas %d: biased sampling. Want = %v, got = %v", cas, want, dist)
  }
 }
}
graph{{{Ed3{{Ed2}}Ed3}}}
graph{{{{EDG_{{{EDG_{{EDG_}EDG_}{EDG_}}EDG_}}}}}}
graph{{stri}stri{stri}stri{stri{stri}stri{stri}stri}}
graph{{{{subO:subO{subO:subO{subO:subO}}}}}}
Graph{DIGRAP{DIGRAP{DIGRAP{DIGRAP}}}}
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package path

import (
 "math"

 "gonum.org/v1/gonum/graph"
 "gonum.org/v1/gonum/graph/traverse"
)

// Weighted is a weighted graph. It is a subset of graph.Weighted.
type Weighted interface {
 // Weight returns the weight for the edge between
 // x and y with IDs xid and yid if Edge(xid, yid)
 // returns a non-nil Edge.
 // If x and y are the same node or there is no
 // joining edge between the two nodes the weight
 // value returned is implementation dependent.
 // Weight returns true if an edge exists between
 // x and y or if x and y have the same ID, false
 // otherwise.
 Weight(xid, yid int64) (w float64, ok bool)
}

// Weighting is a mapping between a pair of nodes and a weight. It follows the
// semantics of the Weighter interface.
type Weighting func(xid, yid int64) (w float64, ok bool)

// UniformCost returns a Weighting
 that returns an edge cost of 1 for existing
// edges, zero for node identity and Inf for otherwise absent edges.
```

```
func UniformCost(g traverse.Graph) Weighting {
 return func(xid, yid int64) (w float64, ok bool) {
  if xid == yid {
   return 0, true
  }
  if e := g.Edge(xid, yid); e != nil {
   return 1, true
  }
  return math.Inf(1), false
 }
}

// Heuristic returns an estimate of the cost of travelling between two nodes.
type Heuristic func(x, y graph.Node) float64

// HeuristicCoster wraps the HeuristicCost method. A graph implementing the
// interface provides a heuristic between any two given nodes.
type HeuristicCoster interface {
 HeuristicCost(x, y graph.Node) float64
}
graph{{AA}AAAAA}
graph{{SUBGRAPe{B{{SUBGRAPk}}}}}
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// Package dynamic provides incremental heuristic graph path finding functions.
package dynamic // import "gonum.org/v1/gonum/graph/path/dynamic"
// Code generated by gocc; DO NOT EDIT.

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//
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// Universal Public Domain Dedication.

package lexer

import (
 "io/ioutil"
 "unicode/utf8"

 "gonum.org/v1/gonum/graph/formats/dot/internal/token"
)
```

```
const (
 NoState    = -1
 NumStates  = 143
 NumSymbols = 184
)

type Lexer struct {
 src    []byte
 pos    int
 line   int
 column int
}

func NewLexer(src []byte) *Lexer {
 lexer := &Lexer{
  src:    src,
  pos:    0,
  line:   1,
  column: 1,
 }
 return lexer
}

func NewLexerFile(fpath string) (*Lexer, error) {
 src, err := ioutil.ReadFile(fpath)
 if err != nil {
  return nil, err
 }
 return NewLexer(src), nil
}

func (l *Lexer) Scan() (tok *token.Token) {
 tok = new(token.Token)
 if
 l.pos >= len(l.src) {
  tok.Type = token.EOF
  tok.Pos.Offset, tok.Pos.Line, tok.Pos.Column = l.pos, l.line, l.column
  return
 }
 start, startLine, startColumn, end := l.pos, l.line, l.column, 0
 tok.Type = token.INVALID
 state, rune1, size := 0, rune(-1), 0
 for state != -1 {
  if l.pos >= len(l.src) {
   rune1 = -1
  } else {
   rune1, size = utf8.DecodeRune(l.src[l.pos:])
```

```
 l.pos += size
}

nextState := -1
if rune1 != -1 {
 nextState = TransTab[state](rune1)
}
state = nextState

if state != -1 {

 switch rune1 {
 case '\n':
  l.line++
  l.column = 1
 case '\r':
  l.column = 1
 case '\t':
  l.column += 4
 default:
  l.column++
 }

 switch {
 case ActTab[state].Accept != -1:
  tok.Type = ActTab[state].Accept
  end = l.pos
 case ActTab[state].Ignore != "":
  start, startLine, startColumn = l.pos, l.line, l.column
  state = 0
  if start >= len(l.src) {
   tok.Type = token.EOF
  }

 }
} else {
 if tok.Type == token.INVALID
{
  end = l.pos
 }
}
}
if end > start {
 l.pos = end
 tok.Lit = l.src[start:end]
} else {
 tok.Lit = []byte{}
}
```

```
 tok.Pos.Offset, tok.Pos.Line, tok.Pos.Column = start, startLine, startColumn

 return
}

func (l *Lexer) Reset() {
 l.pos = 0
}

/*
Lexer symbols:
0: 'n'
1: 'o'
2: 'd'
3: 'e'
4: 'N'
5: 'o'
6: 'd'
7: 'e'
8: 'N'
9: 'O'
10: 'D'
11: 'E'
12: 'e'
13: 'd'
14: 'g'
15: 'e'
16: 'E'
17: 'd'
18: 'g'
19: 'e'
20: 'E'
21: 'D'
22: 'G'
23: 'E'
24: 'g'
25: 'r'
26: 'a'
27: 'p'
28: 'h'
29: 'G'
30: 'r'
31: 'a'
32: 'p'
33: 'h'
34: 'G'
35: 'R'
36: 'A'
```

37: 'P'
38: 'H'
39: 'd'
40: 'i'
41: 'g'
42: 'r'
43: 'a'
44: 'p'
45: 'h'
46: 'D'
47: 'i'
48: 'g'
49: 'r'
50: 'a'
51: 'p'
52: 'h'
53: 'd'
54: 'i'
55: 'G'
56: 'r'
57: 'a'
58: 'p'
59: 'h'
60: 'D'
61: 'i'
62: 'G'
63: 'r'
64: 'a'
65: 'p'
66: 'h'
67: 'D'
68: 'I'
69: 'G'
70: 'R'
71: 'A'
72: 'P'
73: 'H'
74: 's'
75: 'u'
76: 'b'
77: 'g'
78: 'r'
79: 'a'
80: 'p'
81: 'h'
82: 'S'
83: 'u'
84: 'b'

85: 'g'
86: 'r'
87: 'a'
88: 'p'
89: 'h'
90: 's'
91:
'u'
92: 'b'
93: 'G'
94: 'r'
95: 'a'
96: 'p'
97: 'h'
98: 'S'
99: 'u'
100: 'b'
101: 'G'
102: 'r'
103: 'a'
104: 'p'
105: 'h'
106: 'S'
107: 'U'
108: 'B'
109: 'G'
110: 'R'
111: 'A'
112: 'P'
113: 'H'
114: 's'
115: 't'
116: 'r'
117: 'i'
118: 'c'
119: 't'
120: 'S'
121: 't'
122: 'r'
123: 'i'
124: 'c'
125: 't'
126: 'S'
127: 'T'
128: 'R'
129: 'I'
130: 'C'
131: 'T'

132: '{'
133: '}'
134: ';'
135: '-'
136: '-'
137: '-'
138: '>'
139: '['
140: ']'
141: ','
142: '='
143: ':'
144: '_'
145: '-'
146: '.'
147: '-'
148: '.'
149: '\'
150: ""
151: '\'
152: ""
153: ""
154: '='
155: '<'
156: '>'
157: '<'
158: '>'
159: '/'
160: '/'
161: '\n'
162: '#'
163: '\n'
164: '/'
165: '*'
166: '*'
167: '*'
168: '/'
169: ' '
170: '\t'
171: '\r'
172: '\n'
173: \u0001-'!'
174: '#'-'['
175: ']'-\u007f
176: 'a'-'z'
177: 'A'-'Z'
178: '0'-'9'
179: \u0080-\ufffc

```
180: \ufffe-\U0010ffff
181: \u0001-';'
182: '?'-\u00ff
183: .
*/
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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// license that can be found in the LICENSE file.

package unit

import (
 "errors"
 "fmt"
 "math"
 "unicode/utf8"
)

// MagneticFlux represents a magnetic flux in Weber.
type MagneticFlux float64

const Weber MagneticFlux = 1

// Unit converts the MagneticFlux to a *Unit
func (m MagneticFlux) Unit() *Unit {
 return New(float64(m), Dimensions{
  CurrentDim: -1,
  LengthDim:  2,
  MassDim:    1,
  TimeDim:    -2,
 })
}

// MagneticFlux allows MagneticFlux to implement a MagneticFluxer interface
func (m MagneticFlux) MagneticFlux() MagneticFlux {
 return m
}

// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (m *MagneticFlux) From(u Uniter) error {
 if !DimensionsMatch(u, Weber) {
  *m = MagneticFlux(math.NaN())
  return errors.New("Dimension mismatch")
 }
 *m
```

```
 = MagneticFlux(u.Unit().Value())
 return nil
}

func (m MagneticFlux) Format(fs fmt.State, c rune) {
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", m, float64(m))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " Wb"
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(m))
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(m))
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(m))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(m))
  }
  fmt.Fprint(fs, unit)
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g Wb)", c, m, float64(m))
 }
}
digraph{nodee[]noded->nodee}
graph{{{Subg}{Subg}{SubgS}}}
graph{""[diGr_=""]}
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// license that can be found in the LICENSE file.

package gonum

import (
 "math"

 "gonum.org/v1/gonum/blas/blas64"
)

// Dlarfg generates an elementary reflector for a Householder matrix. It creates
// a real elementary reflector of order n such that
```

```
//  H * (alpha) = (beta)
//      (    x)   (    0)
//  H * H = I
// H is represented in the form
//  H = 1 - tau * (1; v) * (1 v)
// where tau is a real scalar.
//
// On entry, x contains the vector x, on exit it contains v.
//
// Dlarfg is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dlarfg(n int, alpha float64, x []float64, incX int) (beta, tau float64) {
 switch {
 case n < 0:
  panic(nLT0)
 case incX <= 0:
  panic(badIncX)
 }

 if n <= 1 {
  return alpha, 0
 }

 if len(x) < 1+(n-2)*abs(incX) {
  panic(shortX)
 }

 bi := blas64.Implementation()

 xnorm := bi.Dnrm2(n-1, x, incX)
 if xnorm
 == 0 {
  return alpha, 0
 }
 beta = -math.Copysign(impl.Dlapy2(alpha, xnorm), alpha)
 safmin := dlamchS / dlamchE
 knt := 0
 if math.Abs(beta) < safmin {
  // xnorm and beta may be inaccurate, scale x and recompute.
  rsafmn := 1 / safmin
  for {
   knt++
   bi.Dscal(n-1, rsafmn, x, incX)
   beta *= rsafmn
   alpha *= rsafmn
   if math.Abs(beta) >= safmin {
    break
   }
  }
```

```
  xnorm = bi.Dnrm2(n-1, x, incX)
  beta = -math.Copysign(impl.Dlapy2(alpha, xnorm), alpha)
 }
 tau = (beta - alpha) / beta
 bi.Dscal(n-1, 1/(alpha-beta), x, incX)
 for j := 0; j < knt; j++ {
  beta *= safmin
 }
 return beta, tau
}
graph{Stric}
graph{subd{{subd{suba}}}}
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// license that can be found in the LICENSE file.

package gonum

import (
 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
 "gonum.org/v1/gonum/lapack"
)

// Dlarft forms the triangular factor T of a block reflector H, storing the answer
// in t.
//  H = I - V * T * V  if store == lapack.ColumnWise
//  H = I - V * T * V  if store == lapack.RowWise
// H is defined by a product of the elementary reflectors where
//  H = H_0 * H_1 * ... * H_{k-1}  if direct == lapack.Forward
//  H = H_{k-1} * ... * H_1 * H_0  if direct == lapack.Backward
//
// t is a kk triangular matrix. t is upper triangular if direct = lapack.Forward
// and lower triangular otherwise. This function will panic if t is not of
// sufficient size.
//
// store describes the storage of the elementary reflectors in v. See
// Dlarfb for a description of layout.
//
// tau contains the scalar factors of the
 elementary reflectors H_i.
//
// Dlarft is an internal routine. It is exported for testing purposes.
func (Implementation) Dlarft(direct lapack.Direct, store lapack.StoreV, n, k int, v []float64, ldv int, tau []float64, t
[]float64, ldt int) {
 mv, nv := n, k
 if store == lapack.RowWise {
  mv, nv = k, n
```

```
}
switch {
case direct != lapack.Forward && direct != lapack.Backward:
 panic(badDirect)
case store != lapack.RowWise && store != lapack.ColumnWise:
 panic(badStoreV)
case n < 0:
 panic(nLT0)
case k < 1:
 panic(kLT1)
case ldv < max(1, nv):
 panic(badLdV)
case len(tau) < k:
 panic(shortTau)
case ldt < max(1, k):
 panic(shortT)
}

if n == 0 {
 return
}

switch {
case len(v) < (mv-1)*ldv+nv:
 panic(shortV)
case len(t) < (k-1)*ldt+k:
 panic(shortT)
}

bi := blas64.Implementation()

// TODO(btracey): There are a number of minor obvious loop optimizations here.
// TODO(btracey): It may be possible to rearrange some of the code so that
// index of 1 is more common
in the Dgemv.
if direct == lapack.Forward {
 prevlastv := n - 1
 for i := 0; i < k; i++ {
  prevlastv = max(i, prevlastv)
  if tau[i] == 0 {
   for j := 0; j <= i; j++ {
    t[j*ldt+i] = 0
   }
   continue
  }
  var lastv int
  if store == lapack.ColumnWise {
   // skip trailing zeros
```

```
   for lastv = n - 1; lastv >= i+1; lastv-- {
    if v[lastv*ldv+i] != 0 {
     break
    }
   }
   for j := 0; j < i; j++ {
    t[j*ldt+i] = -tau[i] * v[i*ldv+j]
   }
   j := min(lastv, prevlastv)
   bi.Dgemv(blas.Trans, j-i, i,
    -tau[i], v[(i+1)*ldv:], ldv, v[(i+1)*ldv+i:], ldv,
    1, t[i:], ldt)
  } else {
   for lastv = n - 1; lastv >= i+1; lastv-- {
    if v[i*ldv+lastv] != 0 {
     break
    }
   }
   for j := 0; j < i; j++ {
    t[j*ldt+i] = -tau[i] * v[j*ldv+i]
   }
   j := min(lastv, prevlastv)
   bi.Dgemv(blas.NoTrans, i, j-i,
    -tau[i], v[i+1:], ldv, v[i*ldv+i+1:], 1,
    1, t[i:], ldt)
  }
  bi.Dtrmv(blas.Upper, blas.NoTrans, blas.NonUnit, i, t,
ldt, t[i:], ldt)
  t[i*ldt+i] = tau[i]
  if i > 1 {
   prevlastv = max(prevlastv, lastv)
  } else {
   prevlastv = lastv
  }
 }
 return
}
prevlastv := 0
for i := k - 1; i >= 0; i-- {
 if tau[i] == 0 {
  for j := i; j < k; j++ {
   t[j*ldt+i] = 0
  }
  continue
 }
 var lastv int
 if i < k-1 {
  if store == lapack.ColumnWise {
```

```
    for lastv = 0; lastv < i; lastv++ {
     if v[lastv*ldv+i] != 0 {
      break
     }
    }
    for j := i + 1; j < k; j++ {
     t[j*ldt+i] = -tau[i] * v[(n-k+i)*ldv+j]
    }
    j := max(lastv, prevlastv)
    bi.Dgemv(blas.Trans, n-k+i-j, k-i-1,
     -tau[i], v[j*ldv+i+1:], ldv, v[j*ldv+i:], ldv,
     1, t[(i+1)*ldt+i:], ldt)
   } else {
    for lastv = 0; lastv < i; lastv++ {
     if v[i*ldv+lastv] != 0 {
      break
     }
    }
    for j := i + 1; j < k; j++ {
     t[j*ldt+i] = -tau[i] * v[j*ldv+n-k+i]
    }
    j := max(lastv, prevlastv)
    bi.Dgemv(blas.NoTrans, k-i-1, n-k+i-j,
     -tau[i], v[(i+1)*ldv+j:], ldv, v[i*ldv+j:], 1,
     1,
 t[(i+1)*ldt+i:], ldt)
   }
   bi.Dtrmv(blas.Lower, blas.NoTrans, blas.NonUnit, k-i-1,
    t[(i+1)*ldt+i+1:], ldt,
    t[(i+1)*ldt+i:], ldt)
   if i > 0 {
    prevlastv = min(prevlastv, lastv)
   } else {
    prevlastv = lastv
   }
  }
  t[i*ldt+i] = tau[i]
 }
}
graph{{digrap}}
digraph{G:nw K:nw}
// SPDX-License-Identifier: Unlicense OR MIT

package text

import (
 "strconv"
 "testing"
```

```
 "gioui.org/op"
)

func TestLayoutLRU(t *testing.T) {
 c := new(layoutCache)
 put := func(i int) {
  c.Put(layoutKey{str: strconv.Itoa(i)}, nil)
 }
 get := func(i int) bool {
  _, ok := c.Get(layoutKey{str: strconv.Itoa(i)})
  return ok
 }
 testLRU(t, put, get)
}

func TestPathLRU(t *testing.T) {
 c := new(pathCache)
 put := func(i int) {
  c.Put(pathKey{str: strconv.Itoa(i)}, op.CallOp{})
 }
 get := func(i int) bool {
  _, ok := c.Get(pathKey{str: strconv.Itoa(i)})
  return ok
 }
 testLRU(t, put, get)
}

func testLRU(t *testing.T, put func(i int), get func(i int) bool) {
 for i := 0; i < maxSize; i++ {
  put(i)
 }
 for i := 0; i < maxSize; i++ {
  if !get(i) {
   t.Fatalf("key %d was evicted", i)
  }
 }
 put(maxSize)
 for i := 1; i < maxSize+1; i++ {
  if !get(i) {
   t.Fatalf("key %d was evicted", i)
  }
 }
 if i := 0; get(i) {
  t.Fatalf("key %d was not evicted", i)
 }
}
```

```
graph{{rrrr}rrrr}
graph{{{dig}}}
/**/graph{}
graph{"""e""e""n""n""n""n"{"""e""e""n""n""n""n""n""n"}"n""n"}
graph{"\I\__0_1RRcrqU_86JW_d_977_4__9y78_Ph_4n_j__4RAJdz_JiyF_\0\I\1\I\3\3\I\#\4__HAur6u1_xS7_7__2
_Yzs5EF__RG02}}8}\I\3\I\#\I\#"}
graph{{grap5}}
graph{{diGrag}diGrai}
graph{{Edg_}Edg_{Edg_{Edg_}Edg_}Edg_{Edg_}{Edg_{Edg_}Edg_}}
graph{{{E4}E4}E4}
graph{subGp}
graph{{digra_}}
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// license that can be found in the LICENSE file.

package testblas

import (
 "testing"

 "gonum.org/v1/gonum/blas"
)

type Dsbmver interface {
 Dsbmv(ul blas.Uplo, n, k int, alpha float64, a []float64, lda int, x []float64, incX int, beta float64, y []float64, incY
int)
}

func DsbmvTest(t *testing.T, blasser Dsbmver) {
 for i, test := range []struct {
  ul    blas.Uplo
  n     int
  k     int
  alpha float64
  beta  float64
  a     [][]float64
  x     []float64
  y     []float64

  ans []float64
 }{
  {
   ul:    blas.Upper,
   n:     4,
   k:     2,
   alpha: 2,
   beta:  3,
```

```
 a: [][]float64{
  {7, 8, 2, 0},
  {0, 8, 2, -3},
  {0, 0, 3, 6},
  {0, 0, 0, 9},
 },
 x:   []float64{1, 2, 3, 4},
 y:   []float64{-1, -2, -3, -4},
 ans: []float64{55, 30, 69, 84},
},
{
 ul:    blas.Lower,
 n:     4,
 k:     2,
 alpha: 2,
 beta:  3,
 a: [][]float64{
  {7,
0, 0, 0},
  {8, 8, 0, 0},
  {2, 2, 3, 0},
  {0, -3, 6, 9},
 },
 x:   []float64{1, 2, 3, 4},
 y:   []float64{-1, -2, -3, -4},
 ans: []float64{55, 30, 69, 84},
},
} {
extra := 0
var aFlat []float64
if test.ul == blas.Upper {
 aFlat = flattenBanded(test.a, test.k, 0)
} else {
 aFlat = flattenBanded(test.a, 0, test.k)
}
incTest := func(incX, incY, extra int) {
 xnew := makeIncremented(test.x, incX, extra)
 ynew := makeIncremented(test.y, incY, extra)
 ans := makeIncremented(test.ans, incY, extra)
 blasser.Dsbmv(test.ul, test.n, test.k, test.alpha, aFlat, test.k+1, xnew, incX, test.beta, ynew, incY)
 if !dSliceTolEqual(ans, ynew) {
  t.Errorf("Case %v: Want %v, got %v", i, ans, ynew)
 }
}
incTest(1, 1, extra)
incTest(1, 3, extra)
incTest(1, -3, extra)
incTest(2, 3, extra)
```

```
  incTest(2, -3, extra)
  incTest(3, 2, extra)
  incTest(-3, 2, extra)
 }
}
*> \brief \b IEEECK
*
*  =========== DOCUMENTATION ===========
*
* Online html documentation available at
*            http://www.netlib.org/lapack/explore-html/
*
*> \htmlonly
*> Download IEEECK + dependencies
*> <a href="http://www.netlib.org/cgi-bin/netlibfiles.tgz?format=tgz&filename=/lapack/lapack_routine/ieeeck.f">
*> [TGZ]</a>
*> <a href="http://www.netlib.org/cgi-bin/netlibfiles.zip?format=zip&filename=/lapack/lapack_routine/ieeeck.f">
*> [ZIP]</a>
*> <a href="http://www.netlib.org/cgi-bin/netlibfiles.txt?format=txt&filename=/lapack/lapack_routine/ieeeck.f">
*> [TXT]</a>
*> \endhtmlonly
*
*  Definition:
*  ===========
*
*       INTEGER          FUNCTION IEEECK( ISPEC, ZERO, ONE )
*
*       .. Scalar Arguments ..
*       INTEGER            ISPEC
*       REAL               ONE, ZERO
*       ..
*
*
*> \par Purpose:
*  =============
*>
*> \verbatim
*>
*> IEEECK is called from the ILAENV to verify that Infinity and
*> possibly NaN arithmetic is safe (i.e. will not trap).
*>
 \endverbatim
*
*  Arguments:
*  ==========
*
*> \param[in] ISPEC
*> \verbatim
```

```
*>          ISPEC is INTEGER
*>          Specifies whether to test just for inifinity arithmetic
*>          or whether to test for infinity and NaN arithmetic.
*>          = 0: Verify infinity arithmetic only.
*>          = 1: Verify infinity and NaN arithmetic.
*> \endverbatim
*>
*> \param[in] ZERO
*> \verbatim
*>          ZERO is REAL
*>          Must contain the value 0.0
*>          This is passed to prevent the compiler from optimizing
*>          away this code.
*> \endverbatim
*>
*> \param[in] ONE
*> \verbatim
*>          ONE is REAL
*>          Must contain the value 1.0
*>          This is passed to prevent the compiler from optimizing
*>          away this code.
*>
*>  RETURN VALUE:  INTEGER
*>          = 0:  Arithmetic failed to produce the correct answers
*>          = 1:  Arithmetic produced the correct answers
*> \endverbatim
*
*  Authors:
*  ========
*
*> \author Univ. of Tennessee
*> \author
 Univ. of California Berkeley
*> \author Univ. of Colorado Denver
*> \author NAG Ltd.
*
*> \date November 2011
*
*> \ingroup auxOTHERauxiliary
*
*  =====================================================================
      INTEGER          FUNCTION IEEECK( ISPEC, ZERO, ONE )
*
*  -- LAPACK auxiliary routine (version 3.4.0) --
*  -- LAPACK is a software package provided by Univ. of Tennessee,    --
*  -- Univ. of California Berkeley, Univ. of Colorado Denver and NAG Ltd..--
*     November 2011
*
```

```
*     .. Scalar Arguments ..
      INTEGER            ISPEC
      REAL               ONE, ZERO
*     ..
*
*  =====================================================================
*
*     .. Local Scalars ..
      REAL               NAN1, NAN2, NAN3, NAN4, NAN5, NAN6, NEGINF,
     $                   NEGZRO, NEWZRO, POSINF
*     ..
*     .. Executable Statements ..
      IEEECK = 1
*
      POSINF = ONE / ZERO
      IF( POSINF.LE.ONE ) THEN
        IEEECK = 0
        RETURN
      END IF
*
       NEGINF = -ONE / ZERO
      IF( NEGINF.GE.ZERO ) THEN
        IEEECK = 0
        RETURN
      END IF
*
      NEGZRO = ONE / ( NEGINF+ONE )
      IF( NEGZRO.NE.ZERO ) THEN
        IEEECK = 0
        RETURN
      END IF
*
      NEGINF = ONE / NEGZRO
      IF( NEGINF.GE.ZERO ) THEN
        IEEECK = 0
        RETURN
      END IF
*
      NEWZRO = NEGZRO + ZERO
      IF( NEWZRO.NE.ZERO ) THEN
        IEEECK = 0
        RETURN
      END IF
*
      POSINF = ONE / NEWZRO
      IF( POSINF.LE.ONE ) THEN
        IEEECK = 0
        RETURN
```

```
      END IF
*
      NEGINF = NEGINF*POSINF
      IF( NEGINF.GE.ZERO ) THEN
        IEEECK = 0
        RETURN
      END IF
*
      POSINF = POSINF*POSINF
      IF( POSINF.LE.ONE ) THEN
        IEEECK = 0
        RETURN
      END IF
*
*
*
*
*     Return if we were only asked to check infinity arithmetic
*
      IF( ISPEC.EQ.0 )
     $   RETURN
*
      NAN1 = POSINF + NEGINF
*
      NAN2 = POSINF / NEGINF
*
      NAN3 = POSINF / POSINF
*
      NAN4
     = POSINF*ZERO
*
      NAN5 = NEGINF*NEGZRO
*
      NAN6 = NAN5*ZERO
*
      IF( NAN1.EQ.NAN1 ) THEN
        IEEECK = 0
        RETURN
      END IF
*
      IF( NAN2.EQ.NAN2 ) THEN
        IEEECK = 0
        RETURN
      END IF
*
      IF( NAN3.EQ.NAN3 ) THEN
        IEEECK = 0
        RETURN
```

```
      END IF
*
      IF( NAN4.EQ.NAN4 ) THEN
        IEEECK = 0
        RETURN
      END IF
*
      IF( NAN5.EQ.NAN5 ) THEN
        IEEECK = 0
        RETURN
      END IF
*
      IF( NAN6.EQ.NAN6 ) THEN
        IEEECK = 0
        RETURN
      END IF
*
      RETURN
      END
graph{STRE}
graph{{strig stri}}
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// license that can be found in the LICENSE file.

package gonum

import (
 "testing"

 "gonum.org/v1/gonum/blas/testblas"
)

func TestZgbmv(t *testing.T) {
 testblas.ZgbmvTest(t, impl)
}

func TestZgemv(t *testing.T) {
 testblas.ZgemvTest(t, impl)
}

func TestZgerc(t *testing.T) {
 testblas.ZgercTest(t, impl)
}

func TestZgeru(t *testing.T) {
 testblas.ZgeruTest(t, impl)
}
```

```
func TestZhbmv(t *testing.T) {
 testblas.ZhbmvTest(t, impl)
}

func TestZhemv(t *testing.T) {
 testblas.ZhemvTest(t, impl)
}

func TestZher(t *testing.T) {
 testblas.ZherTest(t, impl)
}

func TestZher2(t *testing.T) {
 testblas.Zher2Test(t, impl)
}

func TestZhpmv(t *testing.T) {
 testblas.ZhpmvTest(t, impl)
}

func TestZhpr(t *testing.T) {
 testblas.ZhprTest(t, impl)
}

func TestZhpr2(t *testing.T) {
 testblas.Zhpr2Test(t, impl)
}

func TestZtbmv(t *testing.T) {
 testblas.ZtbmvTest(t, impl)
}

func TestZtbsv(t
 *testing.T) {
 testblas.ZtbsvTest(t, impl)
}

func TestZtpmv(t *testing.T) {
 testblas.ZtpmvTest(t, impl)
}

func TestZtpsv(t *testing.T) {
 testblas.ZtpsvTest(t, impl)
}

func TestZtrmv(t *testing.T) {
 testblas.ZtrmvTest(t, impl)
```

```
}

func TestZtrsv(t *testing.T) {
 testblas.ZtrsvTest(t, impl)
}
graph{stri{stri}}
graph{Subgrat{{{Subgrat{{{Subgray}}}}}}}
graph{SUBGRAP{{SUBGRAP{SUBGRAP}SUBGRAP}}}
graph{dig_{dig_}{dig_}dig_}
Graph{{{{D}D}{D}}}
graph{DiGraphd{{DiGraphg}{DiGraphg}DiGraphg}}
graph{Gs{Gy}Gs{Gt}Gs{Gt}}
graph{GRAR{GRAR}}
graph{{{Edga}{Edga}Edga}Edga}
// SPDX-License-Identifier: Unlicense OR MIT

package input

import (
 "gioui.org/internal/opconst"
 "gioui.org/internal/ops"
 "gioui.org/io/event"
 "gioui.org/io/key"
 "gioui.org/op"
)

type TextInputState uint8

type keyQueue struct {
 focus    event.Key
 handlers map[event.Key]*keyHandler
 reader   ops.Reader
 state    TextInputState
}

type keyHandler struct {
 active bool
}

type listenerPriority uint8

const (
 priNone listenerPriority = iota
 priDefault
 priCurrentFocus
 priNewFocus
)
```

```
const (
 TextInputKeep TextInputState = iota
 TextInputClose
 TextInputOpen
)

// InputState returns the last text input state as
// determined in Frame.
func (q *keyQueue) InputState() TextInputState {
 return q.state
}

func (q *keyQueue) Frame(root *op.Ops, events *handlerEvents) {
 if q.handlers == nil {
  q.handlers = make(map[event.Key]*keyHandler)
 }
 for _, h := range q.handlers {
  h.active = false
 }
 q.reader.Reset(root)
 focus, pri, hide := q.resolveFocus(events)
 for k, h := range q.handlers
 {
  if !h.active {
   delete(q.handlers, k)
   if q.focus == k {
    q.focus = nil
    hide = true
   }
  }
 }
 if focus != q.focus {
  if q.focus != nil {
   events.Add(q.focus, key.FocusEvent{Focus: false})
  }
  q.focus = focus
  if q.focus != nil {
   events.Add(q.focus, key.FocusEvent{Focus: true})
  } else {
   hide = true
  }
 }
 switch {
 case pri == priNewFocus:
  q.state = TextInputOpen
 case hide:
  q.state = TextInputClose
 default:
```

```
  q.state = TextInputKeep
 }
}

func (q *keyQueue) Push(e event.Event, events *handlerEvents) {
 if q.focus != nil {
  events.Add(q.focus, e)
 }
}

func (q *keyQueue) resolveFocus(events *handlerEvents) (event.Key, listenerPriority, bool) {
 var k event.Key
 var pri listenerPriority
 var hide bool
loop:
 for encOp, ok := q.reader.Decode(); ok; encOp, ok = q.reader.Decode() {
  switch opconst.OpType(encOp.Data[0]) {
  case opconst.TypeKeyInput:
   op := decodeKeyInputOp(encOp.Data, encOp.Refs)
   var newPri listenerPriority
   switch {
   case
 op.Focus:
    newPri = priNewFocus
   case op.Key == q.focus:
    newPri = priCurrentFocus
   default:
    newPri = priDefault
   }
   // Switch focus if higher priority or if focus requested.
   if newPri.replaces(pri) {
    k, pri = op.Key, newPri
   }
   h, ok := q.handlers[op.Key]
   if !ok {
    h = new(keyHandler)
    q.handlers[op.Key] = h
    // Reset the handler on (each) first appearance.
    events.Set(op.Key, []event.Event{key.FocusEvent{Focus: false}})
   }
   h.active = true
  case opconst.TypeHideInput:
   hide = true
  case opconst.TypePush:
   newK, newPri, h := q.resolveFocus(events)
   hide = hide || h
   if newPri.replaces(pri) {
    k, pri = newK, newPri
```

```
   }
  case opconst.TypePop:
   break loop
  }
 }
 return k, pri, hide
}

func (p listenerPriority) replaces(p2 listenerPriority) bool {
 // Favor earliest default focus or latest requested focus.
 return p > p2 || p == p2 && p == priNewFocus
}

func decodeKeyInputOp(d []byte, refs []interface{}) key.InputOp {
 if
 opconst.OpType(d[0]) != opconst.TypeKeyInput {
  panic("invalid op")
 }
 return key.InputOp{
  Focus: d[1] != 0,
  Key:   refs[0].(event.Key),
 }
}
graph{{{{SubGrM}SubGrS}SubGrK{SubGrM}SubGrS}SubGrK}
graph{{DigV}{DigV}{DigR}{DigV}{DigV}DigP}
graph{DiGr{{DiGr}DiGr}}
graph{{{{Sh{{{{Sh{{{{Sb}}}So}}}}So{{{Sb}}}So}}}}So}
graph{subGr}
digraph {e=""{k=e S8 S4 S1 S5 S0}{k=e}{k=e}{k=e}{k=e}{k=e}{k=e}{k=e}{k=e}S8->9S4->5S4->7S1->2S1-
>0S5->3S5->6S0->1S0->3->2->1->1->6->4->{3}->{1}->1->2->0->4->4->4->4->5->9->9->4->5->{9}->9->9->8-
>0->9->3->9->5->9->4->9->5->{1}->{6}->2->5->9->7->1->5->3->0->8->4->1}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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// license that can be found in the LICENSE file.

package unit

import (
 "fmt"
 "testing"
)

func TestLengthFormat(t *testing.T) {
 for _, test := range []struct {
  value  Length
  format string
```

```
 want   string
 }{
  {1.23456789, "%v", "1.23456789 m"},
  {1.23456789, "%.1v", "1 m"},
  {1.23456789, "%20.1v", "                 1 m"},
  {1.23456789, "%20v", "        1.23456789 m"},
  {1.23456789, "%1v", "1.23456789 m"},
  {1.23456789, "%#v", "unit.Length(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Length=1.23456789 m)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
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package gonum

import (
 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/lapack"
)

// Dgeqrf computes the QR factorization of the mn matrix A using a blocked
// algorithm. See the documentation for Dgeqr2 for a description of the
// parameters at entry and exit.
//
// work is temporary storage, and lwork specifies the usable memory length.
// The length of work must be at least max(1, lwork) and lwork must be -1
// or at least n, otherwise this function will panic.
// Dgeqrf is a blocked QR factorization, but the block size is limited
// by the temporary space available. If lwork == -1, instead of performing Dgeqrf,
// the optimal work length will be stored into work[0].
//
// tau must have length at least min(m,n), and this function will panic otherwise.
func (impl Implementation) Dgeqrf(m, n int, a []float64, lda int, tau, work
 []float64, lwork int) {
 switch {
 case m < 0:
  panic(mLT0)
 case n < 0:
  panic(nLT0)
 case lda < max(1, n):
  panic(badLdA)
```

```
case lwork < max(1, n) && lwork != -1:
 panic(badLWork)
case len(work) < max(1, lwork):
 panic(shortWork)
}

// Quick return if possible.
k := min(m, n)
if k == 0 {
 work[0] = 1
 return
}

// nb is the optimal blocksize, i.e. the number of columns transformed at a time.
nb := impl.Ilaenv(1, "DGEQRF", " ", m, n, -1, -1)
if lwork == -1 {
 work[0] = float64(n * nb)
 return
}

if len(a) < (m-1)*lda+n {
 panic(shortA)
}
if len(tau) < k {
 panic(shortTau)
}

nbmin := 2 // Minimal block size.
var nx int // Use unblocked (unless changed in the next for loop)
iws := n
// Only consider blocked if the suggested block size is > 1 and the
// number of rows or columns is sufficiently large.
if 1 < nb && nb < k {
 // nx is the block size at which the code switches from blocked
 // to unblocked.
 nx = max(0, impl.Ilaenv(3, "DGEQRF", " ", m,
n, -1, -1))
 if k > nx {
  iws = n * nb
  if lwork < iws {
   // Not enough workspace to use the optimal block
   // size. Get the minimum block size instead.
   nb = lwork / n
   nbmin = max(2, impl.Ilaenv(2, "DGEQRF", " ", m, n, -1, -1))
  }
 }
}
```

```
 // Compute QR using a blocked algorithm.
 var i int
 if nbmin <= nb && nb < k && nx < k {
  ldwork := nb
  for i = 0; i < k-nx; i += nb {
   ib := min(k-i, nb)
   // Compute the QR factorization of the current block.
   impl.Dgeqr2(m-i, ib, a[i*lda+i:], lda, tau[i:], work)
   if i+ib < n {
    // Form the triangular factor of the block reflector and apply H
    // In Dlarft, work becomes the T matrix.
    impl.Dlarft(lapack.Forward, lapack.ColumnWise, m-i, ib,
     a[i*lda+i:], lda,
     tau[i:],
     work, ldwork)
    impl.Dlarfb(blas.Left, blas.Trans, lapack.Forward, lapack.ColumnWise,
     m-i, n-i-ib, ib,
     a[i*lda+i:], lda,
     work, ldwork,
     a[i*lda+i+ib:], lda,
     work[ib*ldwork:], ldwork)
   }
  }
 }
 // Call unblocked
 code on the remaining columns.
 if i < k {
  impl.Dgeqr2(m-i, n-i, a[i*lda+i:], lda, tau[i:], work)
 }
 work[0] = float64(iws)
}
graph{"ge Vertex OptEdge << astx.New >>\\\\\\\}X[D], X[1], X[2]) >>\\\\"}
// Code generated by "go generate gonum.org/v1/gonum/unit/constant; DO NOT EDIT.

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// license that can be found in the LICENSE file.

package constant

import (
 "fmt"

 "gonum.org/v1/gonum/unit"
)

// ElectricConstant is the electric constant (), the value of the absolute dielectric permittivity of classical vacuum.
// The dimensions of ElectricConstant are A^2 s^4 kg^-1 m^-3. The standard uncertainty of the constant is 1.3e-21
```

```
A^2 s^4 kg^-1 m^-3.
const ElectricConstant = electricConstantUnits(8.854187817620389e-12)

type electricConstantUnits float64

// Unit converts the electricConstantUnits to a *unit.Unit
func (cnst electricConstantUnits) Unit() *unit.Unit {
 return unit.New(float64(cnst), unit.Dimensions{
  unit.CurrentDim: 2,
  unit.TimeDim:    4,
  unit.MassDim:    -1,
  unit.LengthDim:  -3,
 })
}

func (cnst electricConstantUnits) Format(fs fmt.State, c rune) {
 switch
 c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", cnst, float64(cnst))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), w, p, cnst.Unit())
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, cnst.Unit())
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), w, cnst.Unit())
  default:
   fmt.Fprintf(fs, "%"+string(c), cnst.Unit())
  }
 default:
  fmt.Fprintf(fs, "%%!"+string(c)+"(constant.electricConstantUnits=%v A^2 s^4 kg^-1 m^-3)", float64(cnst))
 }
}
graph{{nod{nod}}}
graph{stri5{stri5{stri1{{stri5}}}stri1}}
graph{{SUBGRA_}{SUBGRA_}SUBGRA_}
      DOUBLE PRECISION FUNCTION MYSQRT(A)
     DOUBLE PRECISION A
     MYSQRT = SQRT(A)
     RETURN
```

```
    END
// Code generated by "go generate gonum.org/v1/gonum/unit/constant; DO NOT EDIT.

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package constant

import "gonum.org/v1/gonum/unit"

// LightSpeedInVacuum is the c constant, the speed of light in a vacuum.
// The dimensions of LightSpeedInVacuum are m s^-1. The constant is exact.
const LightSpeedInVacuum = unit.Velocity(2.99792458e+08)
// Package mem implements a memory allocator and deallocator.
// It currently uses mmap on unix and VirtualAlloc on windows
// to request pages of memory from the operating system, and
// munmap and VirtualFree to release pages of memory to the
// operating system. The allocator uses a first-fit algorithm
// on a singly-linked free list of blocks. Blocks are divided
// into sets called arenas, which correspond to the chunk of
// memory mapped from the operating system. When all of the
// blocks in a set are freed, the arena is unmapped.
package mem

import (
 "os"
 "sync"
 "unsafe"
)

var (
 szpage   = uint(os.Getpagesize())
 szheader = uint(unsafe.Sizeof(header{}))
 freep    = new(header) // head of linked list
 m        sync.Mutex
)

type header struct {
 size      uint
 allocated bool
 next      *header
 arena     unsafe.Pointer // arena of which this block is a member
}

// return n rounded up to a multiple of k.
func roundMultiple(n, k uint) uint {
 if mod := n % k; mod != 0 {
```

```
 return
n + (k - mod)
 }
return n
}

// Alloc allocates size bytes of memory, and returns a pointer to it.
// It is goroutine-safe and attempts to preserve the semantics of
// POSIX libc's malloc. However, Alloc panics if an error occurs when
// requesting more memory from the operating system.
func Alloc(size uint) unsafe.Pointer {
 if size == 0 {
  return nil
 }
 m.Lock()
 defer m.Unlock()
 // Iterate through linked list of headers.
 p := freep
 for {
  // block is free
  if !p.allocated {
   // block is large enough (first-fit)
   if p.size >= size {
    ret := uintptr(unsafe.Pointer(p)) + uintptr(szheader)
    // split block if enough space for header
    if gap := p.size - size; gap >= szheader {
     h := (*header)(unsafe.Pointer(ret + uintptr(size)))
     h.size = gap - szheader
     h.allocated = false
     h.next = p.next
     h.arena = p.arena
     p.next = h
     p.size = size
    }
    p.allocated = true
    return unsafe.Pointer(ret)
   }
  }
  // allocate memory
  if p.next
 == nil {
   // Allocated space must be enough to hold header and
   // size bytes. Simplify alignment by rounding up to
   // the next multiple of the header size.
   szalign := roundMultiple(szheader+size, szheader)
   // round bytes to the next multiple of the page size
   szalloc := roundMultiple(szalign, szpage)
   pblock, err := mmap(szalloc)
```

```
  if err != nil {
   panic(err)
  }
  h := (*header)(pblock)
  h.size = szalloc - szheader
  h.allocated = false
  h.next = nil
  h.arena = pblock
  p.next = h
 }
 p = p.next
}
}

// Free deallocates the memory pointed to by p. It is goroutine-safe
// and attempts to preserve the semantics of POSIX libc's free.
// However, Free panics if an error occurs when releasing memory to
// the operating system.
func Free(p unsafe.Pointer) {
 if p == nil {
  return
 }
 m.Lock()
 defer m.Unlock()
 h := (*header)(unsafe.Pointer(uintptr(p) - uintptr(szheader)))
 arcurr := h.arena
 h.allocated = false
 // Coalesce adjacent free blocks from the
 same arena.
 if next := h.next; next != nil && next.arena == h.arena && !next.allocated {
  h.size += next.size + szheader
  h.next = next.next
 }
 freeArena := true
 var first, prev *header
 for it := freep; ; it = it.next {
  if it.arena == arcurr {
   if it.allocated {
    freeArena = false
   } else if next := it.next; next != nil && next.arena == arcurr && !next.allocated {
    it.size += next.size + szheader
    it.next = next.next
   }
   if first == nil {
    first = it
   }
  }
  if it.next == nil {
```

```
  break
 }
 if it.arena != arcurr && it.next.arena == arcurr {
  prev = it
 }
}
if !freeArena {
 return
}
// If there are no allocated blocks in arena, munmap it.
prev.next = first.next
if err := munmap(unsafe.Pointer(first)); err != nil {
 panic(err)
}
}
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package gonum

import "math"

// Dlanv2 computes the Schur factorization of a real 22 matrix:
//  [ a b ] = [ cs -sn ] * [ aa bb ] * [ cs sn ]
//  [ c d ]   [ sn  cs ]   [ cc dd ] * [-sn cs ]
// If cc is zero, aa and dd are real eigenvalues of the matrix. Otherwise it
// holds that aa = dd and bb*cc < 0, and aa  sqrt(bb*cc) are complex conjugate
// eigenvalues. The real and imaginary parts of the eigenvalues are returned in
// (rt1r,rt1i) and (rt2r,rt2i).
func (impl Implementation) Dlanv2(a, b, c, d float64) (aa, bb, cc, dd float64, rt1r, rt1i, rt2r, rt2i float64, cs, sn
float64) {
 switch {
 case c == 0: // Matrix is already upper triangular.
  aa = a
  bb = b
  cc = 0
  dd = d
  cs = 1
  sn = 0
 case b == 0: // Matrix is lower triangular, swap rows and columns.
  aa = d
  bb = -c
  cc = 0
  dd = a
  cs = 0
  sn = 1
 case a ==
```

```
d && math.Signbit(b) != math.Signbit(c): // Matrix is already in the standard Schur form.
 aa = a
 bb = b
 cc = c
 dd = d
 cs = 1
 sn = 0
default:
 temp := a - d
 p := temp / 2
 bcmax := math.Max(math.Abs(b), math.Abs(c))
 bcmis := math.Min(math.Abs(b), math.Abs(c))
 if b*c < 0 {
  bcmis *= -1
 }
 scale := math.Max(math.Abs(p), bcmax)
 z := p/scale*p + bcmax/scale*bcmis
 eps := dlamchP

 if z >= 4*eps {
  // Real eigenvalues. Compute aa and dd.
  if p > 0 {
   z = p + math.Sqrt(scale)*math.Sqrt(z)
  } else {
   z = p - math.Sqrt(scale)*math.Sqrt(z)
  }
  aa = d + z
  dd = d - bcmax/z*bcmis
  // Compute bb and the rotation matrix.
  tau := impl.Dlapy2(c, z)
  cs = z / tau
  sn = c / tau
  bb = b - c
  cc = 0
 } else {
  // Complex eigenvalues, or real (almost) equal eigenvalues.
  // Make diagonal elements equal.
  sigma := b + c
  tau := impl.Dlapy2(sigma, temp)
  cs = math.Sqrt((1 + math.Abs(sigma)/tau) / 2)
  sn = -p / (tau * cs)
  if sigma <
0 {
   sn *= -1
  }
  // Compute [ aa bb ] = [ a b ] [ cs -sn ]
  //         [ cc dd ]   [ c d ] [ sn  cs ]
  aa = a*cs + b*sn
```

```
 bb = -a*sn + b*cs
 cc = c*cs + d*sn
 dd = -c*sn + d*cs
 // Compute [ a b ] = [ cs sn ] [ aa bb ]
 //         [ c d ]   [-sn cs ] [ cc dd ]
 a = aa*cs + cc*sn
 b = bb*cs + dd*sn
 c = -aa*sn + cc*cs
 d = -bb*sn + dd*cs

 temp = (a + d) / 2
 aa = temp
 bb = b
 cc = c
 dd = temp

 if cc != 0 {
  if bb != 0 {
   if math.Signbit(bb) == math.Signbit(cc) {
    // Real eigenvalues, reduce to
    // upper triangular form.
    sab := math.Sqrt(math.Abs(bb))
    sac := math.Sqrt(math.Abs(cc))
    p = sab * sac
    if cc < 0 {
     p *= -1
    }
    tau = 1 / math.Sqrt(math.Abs(bb+cc))
    aa = temp + p
    bb = bb - cc
    cc = 0
    dd = temp - p
    cs1 := sab * tau
    sn1 := sac * tau
    cs, sn = cs*cs1-sn*sn1, cs*sn1+sn+cs1
   }
   } else {
    bb = -cc
    cc = 0
    cs, sn = -sn, cs
   }
  }
 }
}

//
Store eigenvalues in (rt1r,rt1i) and (rt2r,rt2i).
rt1r = aa
```

```
 rt2r = dd
 if cc != 0 {
  rt1i = math.Sqrt(math.Abs(bb)) * math.Sqrt(math.Abs(cc))
  rt2i = -rt1i
 }
 return
}
strict digraph{A->B A->B}
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// license that can be found in the LICENSE file.

package mat_test

import (
 "fmt"

 "gonum.org/v1/gonum/mat"
)

func ExampleFormatted() {
 a := mat.NewDense(3, 3, []float64{1, 2, 3, 0, 4, 5, 0, 0, 6})

 // Create a matrix formatting value with a prefix and calculating each column
 // width individually...
 fa := mat.Formatted(a, mat.Prefix("    "), mat.Squeeze())

 // and then print with and without zero value elements.
 fmt.Printf("with all values:\na = %v\n\n", fa)
 fmt.Printf("with only non-zero values:\na = % v\n\n", fa)

 // Modify the matrix...
 a.Set(0, 2, 0)

 // and print it without zero value elements.
 fmt.Printf("after modification with only non-zero values:\na = % v\n\n", fa)

 // Modify the matrix again...
 a.Set(0, 2, 123.456)

 // and print it using scientific notation for large exponents.
 fmt.Printf("after modification with scientific notation:\na = %.2g\n\n",
 fa)
 // See golang.org/pkg/fmt/ floating-point verbs for a comprehensive list.

 // Output:
 // with all values:
 // a = 1  2  3
```

```
//     0  4  5
//     0  0  6
//
// with only non-zero values:
// a = 1  2  3
//     .  4  5
//     .  .  6
//
// after modification with only non-zero values:
// a = 1  2  .
//     .  4  5
//     .  .  6
//
// after modification with scientific notation:
// a = 1  2  1.2e+02
//     0  4       5
//     0  0       6
}

func ExampleExcerpt() {
 // Excerpt allows diagnostic display of very large
 // matrices and vectors.

 // The big matrix is too large to properly print...
 big := mat.NewDense(100, 100, nil)
 for i := 0; i < 100; i++ {
  big.Set(i, i, 1)
 }

 // so only print corner excerpts of the matrix.
 fmt.Printf("excerpt big identity matrix: %v\n\n",
  mat.Formatted(big, mat.Prefix(" "), mat.Excerpt(3)))

 // The long vector is also too large, ...
 long := mat.NewVecDense(100, nil)
 for i := 0; i < 100; i++ {
  long.SetVec(i, float64(i))
 }

 //
 ... so print end excerpts of the vector,
 fmt.Printf("excerpt long column vector: %v\n\n",
  mat.Formatted(long, mat.Prefix(" "), mat.Excerpt(3)))
 // or its transpose.
 fmt.Printf("excerpt long row vector: %v\n",
  mat.Formatted(long.T(), mat.Prefix(" "), mat.Excerpt(3)))

 // Output:
```

```
// excerpt big identity matrix: Dims(100, 100)
//  1  0  0  ...  ...  0  0  0
//  0  1  0            0  0  0
//  0  0  1            0  0  0
//   .
//   .
//   .
//  0  0  0            1  0  0
//  0  0  0            0  1  0
//  0  0  0  ...  ...  0  0  1
//
// excerpt long column vector: Dims(100, 1)
//   0
//   1
//   2
//   .
//   .
//   .
//  97
//  98
//  99
//
// excerpt long row vector: Dims(1, 100)
//  [ 0   1   2  ...  ...  97  98  99]

}
graph{SUBh{SUBo}}
Graph{{SubGr4}{SubGr4}{SubGr4}{SubGr4}{SubGr4}{SubGr4}}
graph{{SUBGRAPHE}{SUBGRAPHE}{}{SUBGRAPHE}{}{SUBGRAPHE}{}{}{SUBGRAPHE}{SUBGRAP
HE}{}}
graph{{{DiGrapR}DiGrapR}DiGrapR}
graph ER{stu[e=e]{e[l=""]ne ne ne}grae nu[e=d,sty=d,r=y]""""""ne--e--e--""[l="",n=1.00]""--e[l="",n=1.00]e--ne--
""[l="",n=1.00]""--stu[l="",n=1.00]stu--grae stu--ne stu--nu stu--""[l="",n=1.00]""--e[l="",n=1.00]l""}
graph{{digraq}{digraq}{{digraq}{}{{digraq}{digraq}{digraq}{}}{digraq}{}}{digraq}{}{digraq}}
graph{ed0{{{{ed8}ed8}ed0}{ed0}{ed8}ed0}{ed0}{ed8}ed0}
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// license that can be found in the LICENSE file.

package distuv

import (
 "math"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/mathext"
)
```

```
const logPi = 1.1447298858494001741 // http://oeis.org/A053510

// StudentsT implements the three-parameter Student's T distribution, a distribution
// over the real numbers.
//
// The Student's T distribution has density function
//  ((+1)/2) / (sqrt() (/2) ) (1 + 1/ * ((x-)/)^2)^(-(+1)/2)
//
// The Student's T distribution approaches the normal distribution as   .
//
// For more information, see https://en.wikipedia.org/wiki/Student%27s_t-distribution,
// specifically https://en.wikipedia.org/wiki/Student%27s_t-distribution#Non-standardized_Student.27s_t-
distribution .
//
// The standard Student's T distribution is with Mu = 0, and Sigma = 1.
type StudentsT struct {
 // Mu is the location parameter of the distribution, and the mean of
 the
 // distribution
 Mu float64

 // Sigma is the scale parameter of the distribution. It is related to the
 // standard deviation by std = Sigma * sqrt(Nu/(Nu-2))
 Sigma float64

 // Nu is the shape prameter of the distribution, representing the number of
 // degrees of the distribution, and one less than the number of observations
 // from a Normal distribution.
 Nu float64

 Src rand.Source
}

// CDF computes the value of the cumulative distribution function at x.
func (s StudentsT) CDF(x float64) float64 {
 // transform to standard normal
 y := (x - s.Mu) / s.Sigma
 if y == 0 {
  return 0.5
 }
 // For t > 0
 // F(y) = 1 - 0.5 * I_t(y)(nu/2, 1/2)
 // t(y) = nu/(y^2 + nu)
 // and 1 - F(y) for t < 0
 t := s.Nu / (y*y + s.Nu)
 if y > 0 {
  return 1 - 0.5*mathext.RegIncBeta(0.5*s.Nu, 0.5, t)
```

```
 }
 return 0.5 * mathext.RegIncBeta(s.Nu/2, 0.5, t)
}

// LogProb computes the natural logarithm of the value of the probability
// density function at x.
func (s StudentsT) LogProb(x float64) float64
 {
 g1, _ := math.Lgamma((s.Nu + 1) / 2)
 g2, _ := math.Lgamma(s.Nu / 2)
 z := (x - s.Mu) / s.Sigma
 return g1 - g2 - 0.5*math.Log(s.Nu) - 0.5*logPi - math.Log(s.Sigma) - ((s.Nu+1)/2)*math.Log(1+z*z/s.Nu)
}

// Mean returns the mean of the probability distribution.
func (s StudentsT) Mean() float64 {
 return s.Mu
}

// Mode returns the mode of the distribution.
func (s StudentsT) Mode() float64 {
 return s.Mu
}

// NumParameters returns the number of parameters in the distribution.
func (StudentsT) NumParameters() int {
 return 3
}

// Prob computes the value of the probability density function at x.
func (s StudentsT) Prob(x float64) float64 {
 return math.Exp(s.LogProb(x))
}

// Quantile returns the inverse of the cumulative distribution function.
func (s StudentsT) Quantile(p float64) float64 {
 if p < 0 || p > 1 {
  panic(badPercentile)
 }
 // F(x) = 1 - 0.5 * I_t(x)(nu/2, 1/2)
 // t(x) = nu/(t^2 + nu)
 if p == 0.5 {
  return s.Mu
 }
 var y float64
 if p > 0.5 {
  // Know t >
```

```
 0
  t := mathext.InvRegIncBeta(s.Nu/2, 0.5, 2*(1-p))
  y = math.Sqrt(s.Nu * (1 - t) / t)
 } else {
  t := mathext.InvRegIncBeta(s.Nu/2, 0.5, 2*p)
  y = -math.Sqrt(s.Nu * (1 - t) / t)
 }
 // Convert out of standard normal
 return y*s.Sigma + s.Mu
}

// Rand returns a random sample drawn from the distribution.
func (s StudentsT) Rand() float64 {
 // http://www.math.uah.edu/stat/special/Student.html
 n := Normal{0, 1, s.Src}.Rand()
 c := Gamma{s.Nu / 2, 0.5, s.Src}.Rand()
 z := n / math.Sqrt(c/s.Nu)
 return z*s.Sigma + s.Mu
}

// StdDev returns the standard deviation of the probability distribution.
//
// The standard deviation is undefined for  <= 1, and this returns math.NaN().
func (s StudentsT) StdDev() float64 {
 return math.Sqrt(s.Variance())
}

// Survival returns the survival function (complementary CDF) at x.
func (s StudentsT) Survival(x float64) float64 {
 // transform to standard normal
 y := (x - s.Mu) / s.Sigma
 if y == 0 {
  return 0.5
 }
 // For t > 0
 // F(y) = 1 - 0.5 *
 I_t(y)(nu/2, 1/2)
 // t(y) = nu/(y^2 + nu)
 // and 1 - F(y) for t < 0
 t := s.Nu / (y*y + s.Nu)
 if y > 0 {
  return 0.5 * mathext.RegIncBeta(s.Nu/2, 0.5, t)
 }
 return 1 - 0.5*mathext.RegIncBeta(s.Nu/2, 0.5, t)
}

// Variance returns the variance of the probability distribution.
//
```

```
// The variance is undefined for  <= 1, and this returns math.NaN().
func (s StudentsT) Variance() float64 {
 if s.Nu < 1 {
  return math.NaN()
 }
 if s.Nu <= 2 {
  return math.Inf(1)
 }
 return s.Sigma * s.Sigma * s.Nu / (s.Nu - 2)
}
graph{{E4}E4}
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// license that can be found in the LICENSE file.

package mat

const (
 // regionOverlap is the panic string used for the general case
 // of a matrix region overlap between a source and destination.
 regionOverlap = "mat: bad region: overlap"

 // regionIdentity is the panic string used for the specific
 // case of complete agreement between a source and a destination.
 regionIdentity = "mat: bad region: identical"

 // mismatchedStrides is the panic string used for overlapping
 // data slices with differing strides.
 mismatchedStrides = "mat: bad region: different strides"
)

// rectanglesOverlap returns whether the strided rectangles a and b overlap
// when b is offset by off elements after a but has at least one element before
// the end of a. off must be positive. a and b have aCols and bCols respectively.
//
// rectanglesOverlap works by shifting both matrices left such
 that the left
// column of a is at 0. The column indexes are flattened by obtaining the shifted
// relative left and right column positions modulo the common stride. This allows
// direct comparison of the column offsets when the matrix backing data slices
// are known to overlap.
func rectanglesOverlap(off, aCols, bCols, stride int) bool {
 if stride == 1 {
  // Unit stride means overlapping data
  // slices must overlap as matrices.
  return true
 }
```

```
 // Flatten the shifted matrix column positions
 // so a starts at 0, modulo the common stride.
 aTo := aCols
 // The mod stride operations here make the from
 // and to indexes comparable between a and b when
 // the data slices of a and b overlap.
 bFrom := off % stride
 bTo := (bFrom + bCols) % stride

 if bTo == 0 || bFrom < bTo {
  // b matrix is not wrapped: compare for
  // simple overlap.
  return bFrom < aTo
 }

 // b strictly wraps and so must overlap with a.
 return true
}
graph{subg{subgg{subg}subgr}subgr}
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// +build !noasm,!appengine,!safe

package c64

// AxpyUnitary is
//  for i, v := range x {
//   y[i] += alpha * v
//  }
func AxpyUnitary(alpha complex64, x, y []complex64)

// AxpyUnitaryTo is
//  for i, v := range x {
//   dst[i] = alpha*v + y[i]
//  }
func AxpyUnitaryTo(dst []complex64, alpha complex64, x, y []complex64)

// AxpyInc is
//  for i := 0; i < int(n); i++ {
//   y[iy] += alpha * x[ix]
//   ix += incX
//   iy += incY
//  }
func AxpyInc(alpha complex64, x, y []complex64, n, incX, incY, ix, iy uintptr)

// AxpyIncTo is
```

```
//  for i := 0; i < int(n); i++ {
//   dst[idst] = alpha*x[ix] + y[iy]
//   ix += incX
//   iy += incY
//   idst += incDst
//  }
func AxpyIncTo(dst []complex64, incDst, idst uintptr, alpha complex64, x, y []complex64, n, incX, incY, ix, iy
uintptr)

// DotcUnitary is
//  for i, v := range x {
//   sum
 += y[i] * conj(v)
//  }
//  return sum
func DotcUnitary(x, y []complex64) (sum complex64)

// DotcInc is
//  for i := 0; i < int(n); i++ {
//   sum += y[iy] * conj(x[ix])
//   ix += incX
//   iy += incY
//  }
//  return sum
func DotcInc(x, y []complex64, n, incX, incY, ix, iy uintptr) (sum complex64)

// DotuUnitary is
//  for i, v := range x {
//   sum += y[i] * v
//  }
//  return sum
func DotuUnitary(x, y []complex64) (sum complex64)

// DotuInc is
//  for i := 0; i < int(n); i++ {
//   sum += y[iy] * x[ix]
//   ix += incX
//   iy += incY
//  }
//  return sum
func DotuInc(x, y []complex64, n, incX, incY, ix, iy uintptr) (sum complex64)
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// license that can be found in the LICENSE file.

package distuv

import (
```

```
 "math"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/mathext"
)

// InverseGamma implements the inverse gamma distribution, a two-parameter
// continuous distribution with support over the positive real numbers. The
// inverse gamma distribution is the same as the distribution of the reciprocal
// of a gamma distributed random variable.
//
// The inverse gamma distribution has density function
//  ^ / () x^(--1)e^(-/x)
//
// For more information, see https://en.wikipedia.org/wiki/Inverse-gamma_distribution
type InverseGamma struct {
 // Alpha is the shape parameter of the distribution. Alpha must be greater than 0.
 Alpha float64
 // Beta is the scale parameter of the distribution. Beta must be greater than 0.
 Beta float64

 Src rand.Source
}

// CDF computes the value of the cumulative distribution
 function at x.
func (g InverseGamma) CDF(x float64) float64 {
 if x < 0 {
  return 0
 }
 // TODO(btracey): Replace this with a direct call to the upper regularized
 // gamma function if mathext gets it.
 //return 1 - mathext.GammaInc(g.Alpha, g.Beta/x)
 return mathext.GammaIncRegComp(g.Alpha, g.Beta/x)
}

// ExKurtosis returns the excess kurtosis of the distribution.
func (g InverseGamma) ExKurtosis() float64 {
 if g.Alpha <= 4 {
  return math.Inf(1)
 }
 return (30*g.Alpha - 66) / (g.Alpha - 3) / (g.Alpha - 4)
}

// LogProb computes the natural logarithm of the value of the probability
// density function at x.
func (g InverseGamma) LogProb(x float64) float64 {
```

```
 if x <= 0 {
  return math.Inf(-1)
 }
 a := g.Alpha
 b := g.Beta
 lg, _ := math.Lgamma(a)
 return a*math.Log(b) - lg + (-a-1)*math.Log(x) - b/x
}

// Mean returns the mean of the probability distribution.
func (g InverseGamma) Mean() float64 {
 if g.Alpha <= 1 {
  return math.Inf(1)
 }
 return g.Beta / (g.Alpha - 1)
}

// Mode
 returns the mode of the distribution.
func (g InverseGamma) Mode() float64 {
 return g.Beta / (g.Alpha + 1)
}

// NumParameters returns the number of parameters in the distribution.
func (InverseGamma) NumParameters() int {
 return 2
}

// Prob computes the value of the probability density function at x.
func (g InverseGamma) Prob(x float64) float64 {
 return math.Exp(g.LogProb(x))
}

// Quantile returns the inverse of the cumulative distribution function.
func (g InverseGamma) Quantile(p float64) float64 {
 if p < 0 || 1 < p {
  panic(badPercentile)
 }
 return (1 / (mathext.GammaIncRegCompInv(g.Alpha, p))) * g.Beta
}

// Rand returns a random sample drawn from the distribution.
//
// Rand panics if either alpha or beta is <= 0.
func (g InverseGamma) Rand() float64 {
 // TODO(btracey): See if there is a more direct way to sample.
 return 1 / Gamma(g).Rand()
}
```

```
// Survival returns the survival function (complementary CDF) at x.
func (g InverseGamma) Survival(x float64) float64 {
 if x
 < 0 {
  return 1
 }
 return mathext.GammaIncReg(g.Alpha, g.Beta/x)
}

// StdDev returns the standard deviation of the probability distribution.
func (g InverseGamma) StdDev() float64 {
 return math.Sqrt(g.Variance())
}

// Variance returns the variance of the probability distribution.
func (g InverseGamma) Variance() float64 {
 if g.Alpha <= 2 {
  return math.Inf(1)
 }
 v := g.Beta / (g.Alpha - 1)
 return v * v / (g.Alpha - 2)
}
graph{<<auaua>>}
graph{edgc{{edgc{edgd{}edgd}}edgd{}edgd}}
graph{Strig}
graph{{{8.}9.}{8.}9.}
graph{St{{St{St{{St}}St}}St{{St}St}St}}
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// license that can be found in the LICENSE file.

package testblas

import (
 "fmt"
 "testing"

 "golang.org/x/exp/rand"
 "gonum.org/v1/gonum/blas"
)

type Zgemmer interface {
 Zgemm(tA, tB blas.Transpose, m, n, k int, alpha complex128, a []complex128, lda int, b []complex128, ldb int, beta
complex128, c []complex128, ldc int)
}

func ZgemmTest(t *testing.T, impl Zgemmer) {
```

```
 for _, tA := range []blas.Transpose{blas.NoTrans, blas.Trans, blas.ConjTrans} {
  for _, tB := range []blas.Transpose{blas.NoTrans, blas.Trans, blas.ConjTrans} {
   name := transString(tA) + "-" + transString(tB)
   t.Run(name, func(t *testing.T) {
    for _, m := range []int{0, 1, 2, 5, 10} {
     for _, n := range []int{0, 1, 2, 5, 10} {
      for _, k := range []int{0, 1, 2, 7, 11} {
       zgemmTest(t, impl, tA, tB, m, n, k)
      }
     }
    }
   })
  }
 }
}

func zgemmTest(t *testing.T, impl Zgemmer,
 tA, tB blas.Transpose, m, n, k int) {
 const tol = 1e-13

 rnd := rand.New(rand.NewSource(1))

 rowA, colA := m, k
 if tA != blas.NoTrans {
  rowA, colA = k, m
 }
 rowB, colB := k, n
 if tB != blas.NoTrans {
  rowB, colB = n, k
 }

 for _, lda := range []int{max(1, colA), colA + 2} {
  for _, ldb := range []int{max(1, colB), colB + 3} {
   for _, ldc := range []int{max(1, n), n + 4} {
    for _, alpha := range []complex128{0, 1, complex(0.7, -0.9)} {
     for _, beta := range []complex128{0, 1, complex(1.3, -1.1)} {
      // Allocate the matrix A and fill it with random numbers.
      a := make([]complex128, rowA*lda)
      for i := range a {
       a[i] = rndComplex128(rnd)
      }
      // Create a copy of A.
      aCopy := make([]complex128, len(a))
      copy(aCopy, a)

      // Allocate the matrix B and fill it with random numbers.
      b := make([]complex128, rowB*ldb)
      for i := range b {
```

```
      b[i] = rndComplex128(rnd)
     }
     // Create a copy of B.
     bCopy :=
 make([]complex128, len(b))
     copy(bCopy, b)

     // Allocate the matrix C and fill it with random numbers.
     c := make([]complex128, m*ldc)
     for i := range c {
      c[i] = rndComplex128(rnd)
     }

     // Compute the expected result using an internal Zgemm implementation.
     want := zmm(tA, tB, m, n, k, alpha, a, lda, b, ldb, beta, c, ldc)

     // Compute a result using Zgemm.
     impl.Zgemm(tA, tB, m, n, k, alpha, a, lda, b, ldb, beta, c, ldc)

     prefix := fmt.Sprintf("m=%v,n=%v,k=%v,lda=%v,ldb=%v,ldc=%v,alpha=%v,beta=%v", m, n, k, lda, ldb, ldc,
alpha, beta)

     if !zsame(a, aCopy) {
      t.Errorf("%v: unexpected modification of A", prefix)
      continue
     }
     if !zsame(b, bCopy) {
      t.Errorf("%v: unexpected modification of B", prefix)
      continue
     }

     if !zEqualApprox(c, want, tol) {
      t.Errorf("%v: unexpected result,\nwant=%v\ngot =%v\n", prefix, want, c)
     }
    }
   }
  }
 }
}
graph{{SUBGRZ{}SUBGRR}}
graph{{stri_{stri_}}}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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// license that can be found in the LICENSE file.
```

```
package unit

import (
 "errors"
 "fmt"
 "math"
 "unicode/utf8"
)

// Inductance represents an electrical inductance in Henry.
type Inductance float64

const Henry Inductance = 1

// Unit converts the Inductance to a *Unit
func (i Inductance) Unit() *Unit {
 return New(float64(i), Dimensions{
  CurrentDim: -2,
  LengthDim:  2,
  MassDim:    1,
  TimeDim:    -2,
 })
}

// Inductance allows Inductance to implement a Inductancer interface
func (i Inductance) Inductance() Inductance {
 return i
}

// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (i *Inductance) From(u Uniter) error {
 if !DimensionsMatch(u, Henry) {
  *i = Inductance(math.NaN())
  return errors.New("Dimension mismatch")
 }
 *i = Inductance(u.Unit().Value())
 return
 nil
}

func (i Inductance) Format(fs fmt.State, c rune) {
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", i, float64(i))
   return
  }
```

```
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " H"
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(i))
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(i))
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(i))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(i))
  }
  fmt.Fprint(fs, unit)
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g H)", c, i, float64(i))
 }
}
graph{{sq sq}}
graph{"\
""\
\\\\\\\\\\\\"}
Graph{Subgrg{Ed_{Ed_}}}
graph{diG1{{diG8{}{}diG5{}}{{}diG5{}diG5{}diG5{}}{diG8{}{}{}diG5{}diG5}{diG8{}diG5{}diG5{}diG5{
}diG5}}diG5""diG5{}diG5}
digraph{e[l=<<">a<D>b<D>|<D>c>]}
graph{{{GRU{GRR{{{GRU{GRR}GRU}{GRU}}}GRR}GRU}{GRU}}}
graph{<==>}
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package distuv

import (
 "math"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/mathext"
)

// F implements the F-distribution, a two-parameter continuous distribution
// with support over the positive real numbers.
//
// The F-distribution has density function
```

```
//  sqrt(((d1*x)^d1) * d2^d2 / ((d1*x+d2)^(d1+d2))) / (x * B(d1/2,d2/2))
// where B is the beta function.
//
// For more information, see https://en.wikipedia.org/wiki/F-distribution
type F struct {
 D1  float64 // Degrees of freedom for the numerator
 D2  float64 // Degrees of freedom for the denominator
 Src rand.Source
}

// CDF computes the value of the cumulative density function at x.
func (f F) CDF(x float64) float64 {
 return mathext.RegIncBeta(f.D1/2, f.D2/2, f.D1*x/(f.D1*x+f.D2))
}

// ExKurtosis returns the excess kurtosis of the distribution.
//
// ExKurtosis
 returns NaN if the D2 parameter is less or equal to 8.
func (f F) ExKurtosis() float64 {
 if f.D2 <= 8 {
  return math.NaN()
 }
 return (12 / (f.D2 - 6)) * ((5*f.D2-22)/(f.D2-8) + ((f.D2-4)/f.D1)*((f.D2-2)/(f.D2-8))*((f.D2-2)/(f.D1+f.D2-2)))
}

// LogProb computes the natural logarithm of the value of the probability
// density function at x.
func (f F) LogProb(x float64) float64 {
 return 0.5*(f.D1*math.Log(f.D1*x)+f.D2*math.Log(f.D2)-(f.D1+f.D2)*math.Log(f.D1*x+f.D2)) - math.Log(x) -
mathext.Lbeta(f.D1/2, f.D2/2)
}

// Mean returns the mean of the probability distribution.
//
// Mean returns NaN if the D2 parameter is less than or equal to 2.
func (f F) Mean() float64 {
 if f.D2 <= 2 {
  return math.NaN()
 }
 return f.D2 / (f.D2 - 2)
}

// Mode returns the mode of the distribution.
//
// Mode returns NaN if the D1 parameter is less than or equal to 2.
func (f F) Mode() float64 {
 if f.D1 <= 2 {
```

```
  return math.NaN()
 }
 return ((f.D1 - 2) / f.D1) * (f.D2 / (f.D2 + 2))
}

// NumParameters
 returns the number of parameters in the distribution.
func (f F) NumParameters() int {
 return 2
}

// Prob computes the value of the probability density function at x.
func (f F) Prob(x float64) float64 {
 return math.Exp(f.LogProb(x))
}

// Quantile returns the inverse of the cumulative distribution function.
func (f F) Quantile(p float64) float64 {
 if p < 0 || p > 1 {
  panic(badPercentile)
 }
 y := mathext.InvRegIncBeta(0.5*f.D1, 0.5*f.D2, p)
 return f.D2 * y / (f.D1 * (1 - y))
}

// Rand returns a random sample drawn from the distribution.
func (f F) Rand() float64 {
 u1 := ChiSquared{f.D1, f.Src}.Rand()
 u2 := ChiSquared{f.D2, f.Src}.Rand()
 return (u1 / f.D1) / (u2 / f.D2)
}

// Skewness returns the skewness of the distribution.
//
// Skewness returns NaN if the D2 parameter is less than or equal to 6.
func (f F) Skewness() float64 {
 if f.D2 <= 6 {
  return math.NaN()
 }
 num := (2*f.D1 + f.D2 - 2) * math.Sqrt(8*(f.D2-4))
 den := (f.D2 - 6) * math.Sqrt(f.D1*(f.D1+f.D2-2))
 return
 num / den
}

// StdDev returns the standard deviation of the probability distribution.
//
// StdDev returns NaN if the D2 parameter is less than or equal to 4.
```

```
func (f F) StdDev() float64 {
 if f.D2 <= 4 {
  return math.NaN()
 }
 return math.Sqrt(f.Variance())
}

// Survival returns the survival function (complementary CDF) at x.
func (f F) Survival(x float64) float64 {
 return 1 - f.CDF(x)
}

// Variance returns the variance of the probability distribution.
//
// Variance returns NaN if the D2 parameter is less than or equal to 4.
func (f F) Variance() float64 {
 if f.D2 <= 4 {
  return math.NaN()
 }
 num := 2 * f.D2 * f.D2 * (f.D1 + f.D2 - 2)
 den := f.D1 * (f.D2 - 2) * (f.D2 - 2) * (f.D2 - 4)
 return num / den
}
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graph{{Dl{Ds{Ds}}}}
graph{{<><><><><><>}<><><>}
graph{{gr}gr}
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// Package blas32 provides a simple interface to the float32 BLAS API.
package blas32 // import "gonum.org/v1/gonum/blas/blas32"
graph{{{EDGD{EDGD}}}}
//**
launchpad.net_ubuntu-push@v0.0.0-20170211001545-000000000177
github.com/monsti/form@v0.0.0-20140713153911-7d350fe5f89b
**//

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graph{<<NNNNNNNNN>>}
graph{""[diA=""diA=""diA=""diA=""diA=""]}
graph{{DIGRAe}DIGRAe}
graph{{DIGRAPO{{DIGRAPO}{DIGRAPO}{DIGRAPO}DIGRAPO}}}
graph{{n}}
graph{StriC{StriS{{StriG}}}}
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package testlapack

import (
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas/blas64"
)

func TestDlagsy(t *testing.T) {
 const tol = 1e-14
 rnd := rand.New(rand.NewSource(1))
 for _, n := range []int{0, 1, 2, 3, 4, 5, 10, 50} {
  for _, lda := range []int{0, 2*n + 1} {
   if lda == 0 {
    lda = max(1, n)
   }
   // D is the identity matrix I.
   d := make([]float64, n)
   for i := range d {
    d[i] = 1
   }
   // Allocate an nn symmetric matrix A and fill it with NaNs.
   a := nanSlice(n * lda)
   work := make([]float64, 2*n)
```

```
  // Compute A = U * D * U where U is a random orthogonal matrix.
  Dlagsy(n, 0, d, a, lda, rnd, work)
  // A should be the identity matrix because
  //  A = U * D * U = U * I * U = U * U = I.
  dist := distFromIdentity(n, a, lda)
  if dist > tol {
   t.Errorf("Case n=%v,lda=%v: |A-I|=%v
 is too large", n, lda, dist)
  }
 }
}
}

func TestDlagge(t *testing.T) {
 rnd := rand.New(rand.NewSource(1))
 for _, n := range []int{0, 1, 2, 3, 4, 5, 10, 50} {
  for _, lda := range []int{0, 2*n + 1} {
   if lda == 0 {
    lda = max(1, n)
   }
   d := make([]float64, n)
   for i := range d {
    d[i] = 1
   }
   a := blas64.General{
    Rows:   n,
    Cols:   n,
    Stride: lda,
    Data:   nanSlice(n * lda),
   }
   work := make([]float64, a.Rows+a.Cols)

   Dlagge(a.Rows, a.Cols, 0, 0, d, a.Data, a.Stride, rnd, work)

   if !isOrthogonal(a) {
    t.Errorf("Case n=%v,lda=%v: unexpected result", n, lda)
   }
  }
 }

}

func TestRandomOrthogonal(t *testing.T) {
 rnd := rand.New(rand.NewSource(1))
 for n := 1; n <= 20; n++ {
  q := randomOrthogonal(n, rnd)
  if !isOrthogonal(q) {
   t.Errorf("Case n=%v: Q not orthogonal", n)
```

```
  }
 }
}
graph{{{{{{st}}st}stI}{st}}st}stI}
Graph{{SubGr4}{SubGr4}}
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package testblas

import (
 "fmt"
 "math"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/floats"
)

type Dznrm2er interface {
 Dznrm2(n int, x []complex128, incX int) float64
 Dnrm2er
}

func Dznrm2Test(t *testing.T, impl Dznrm2er) {
 tol := 1e-12
 for tc, test := range []struct {
  x    []complex128
  want float64
 }{
  {
   x:    nil,
   want: 0,
  },
  {
   x:    []complex128{1 + 2i},
   want: 2.2360679774998,
  },
  {
   x:    []complex128{1 + 2i, 3 + 4i},
   want: 5.4772255750517,
  },
  {
   x:    []complex128{1 + 2i, 3 + 4i, 5 + 6i},
   want: 9.5393920141695,
  },
```

```
 {
  x:    []complex128{1 + 2i, 3 + 4i, 5 + 6i, 7 + 8i},
  want: 1.4282856857086e+01,
 },
 {
  x:    []complex128{1 + 2i, 3 + 4i, 5 + 6i, 7 + 8i, 9 + 10i},
  want: 1.9621416870349e+01,
 },
 {
  x:    []complex128{1 + 2i, 3 + 4i, 5 + 6i, 7
+ 8i, 9 + 10i, 11 + 12i},
  want: 2.5495097567964e+01,
 },
 {
  x:    []complex128{1 + 2i, 3 + 4i, 5 + 6i, 7 + 8i, 9 + 10i, 11 + 12i, 13 + 14i},
  want: 3.1859064644148e+01,
 },
 {
  x:    []complex128{1 + 2i, 3 + 4i, 5 + 6i, 7 + 8i, 9 + 10i, 11 + 12i, 13 + 14i, 15 + 16i},
  want: 3.8678159211627e+01,
 },
 {
  x:    []complex128{1 + 2i, 3 + 4i, 5 + 6i, 7 + 8i, 9 + 10i, 11 + 12i, 13 + 14i, 15 + 16i, 17 + 18i},
  want: 4.5923850012820e+01,
 },
 {
  x:    []complex128{1 + 2i, 3 + 4i, 5 + 6i, 7 + 8i, 9 + 10i, 11 + 12i, 13 + 14i, 15 + 16i, 17 + 18i, 19 + 20i},
  want: 5.3572380943915e+01,
 },
 {
  x:    []complex128{1 + 2i, 3 + 4i, 5 + 6i, 7 + 8i, 9 + 10i, 11 + 12i, 13 + 14i, 15 + 16i, 17 + 18i, 19 + 20i, 21 + 22i},
  want: 6.1603571325046e+01,
 },
 {
  x:    []complex128{1 + 2i, 3 + 4i, 5 + 6i, 7 + 8i, 9 + 10i, 11 + 12i, 13 + 14i, 15 + 16i, 17 + 18i, 19 + 20i, 21 + 22i, 23
+ 24i},
  want: 70,
 },
} {
 n := len(test.x)
 for _, incX := range []int{-10, -1, 1, 2,
9, 17} {
  x := makeZVector(test.x, incX)
  xCopy := make([]complex128, len(x))
  copy(xCopy, x)

  got := impl.Dznrm2(n, x, incX)
```

```
  prefix := fmt.Sprintf("Case %v (n=%v,incX=%v):", tc, n, incX)

  if !zsame(x, xCopy) {
   t.Errorf("%v: unexpected modification of x", prefix)
  }

  if incX < 0 {
   if got != 0 {
    t.Errorf("%v: non-zero result when incX < 0. got %v", prefix, got)
   }
   continue
  }

  if !floats.EqualWithinAbsOrRel(test.want, got, tol, tol) {
   t.Errorf("%v: unexpected result. want %v, got %v", prefix, test.want, got)
  }
 }
}

tol = 1e-14
rnd := rand.New(rand.NewSource(1))
for _, n := range []int{10, 50, 100} {
 for _, incX := range []int{1, 2, 10} {
  re := make([]float64, n)
  for i := range re {
   re[i] = rnd.NormFloat64()
  }
  im := make([]float64, n)
  for i := range im {
   im[i] = rnd.NormFloat64()
  }
  want := math.Hypot(impl.Dnrm2(n, re, 1), impl.Dnrm2(n, im, 1))

  x := make([]complex128, (n-1)*incX+1)
  for i := range
x {
   x[i] = znan
  }
  for i := range re {
   x[i*incX] = complex(re[i], im[i])
  }

  got := impl.Dznrm2(n, x, incX)

  if !floats.EqualWithinAbsOrRel(want, got, tol, tol) {
   t.Errorf("Case n=%v,incX=%v: unexpected result using Dnrm2. want %v, got %v", n, incX, want, got)
  }
 }
```

```
 }
}
graph{"\\\\\\\\\\\{ssssssss}\\\\\\\\\\\\\\\\\\\\\\"}
graph{Gra{Gra}}
graph{Digr{Digr{{Digr
}}}}
*> \brief \b DSCAL
*
*  =========== DOCUMENTATION ===========
*
* Online html documentation available at
*            http://www.netlib.org/lapack/explore-html/
*
*  Definition:
*  ===========
*
*       SUBROUTINE DSCAL(N,DA,DX,INCX)
*
*       .. Scalar Arguments ..
*       DOUBLE PRECISION DA
*       INTEGER INCX,N
*       ..
*       .. Array Arguments ..
*       DOUBLE PRECISION DX(*)
*       ..
*
*
*> \par Purpose:
*  =============
*>
*> \verbatim
*>
*>    DSCAL scales a vector by a constant.
*>    uses unrolled loops for increment equal to one.
*> \endverbatim
*
*  Authors:
*  ========
*
*> \author Univ. of Tennessee
*> \author Univ. of California Berkeley
*> \author Univ. of Colorado Denver
*> \author NAG Ltd.
*
*> \date November 2011
*
*> \ingroup double_blas_level1
*
```

```
*> \par Further Details:
*  =====================
*>
*> \verbatim
*>
*>     jack dongarra, linpack, 3/11/78.
*>     modified 3/93 to return if incx .le. 0.
*>     modified 12/3/93, array(1) declarations changed
 to array(*)
*> \endverbatim
*>
*  ===================================================================
      SUBROUTINE DSCAL(N,DA,DX,INCX)
*
*  -- Reference BLAS level1 routine (version 3.4.0) --
*  -- Reference BLAS is a software package provided by Univ. of Tennessee,    --
*  -- Univ. of California Berkeley, Univ. of Colorado Denver and NAG Ltd..--
*     November 2011
*
*     .. Scalar Arguments ..
      DOUBLE PRECISION DA
      INTEGER INCX,N
*     ..
*     .. Array Arguments ..
      DOUBLE PRECISION DX(*)
*     ..
*
*  ===================================================================
*
*     .. Local Scalars ..
      INTEGER I,M,MP1,NINCX
*     ..
*     .. Intrinsic Functions ..
      INTRINSIC MOD
*     ..
      IF (N.LE.0 .OR. INCX.LE.0) RETURN
      IF (INCX.EQ.1) THEN
*
*       code for increment equal to 1
*
*
*       clean-up loop
*
         M = MOD(N,5)
         IF (M.NE.0) THEN
            DO I = 1,M
               DX(I) = DA*DX(I)
            END DO
```

```
      IF (N.LT.5) RETURN
        END IF
        MP1 = M + 1
        DO I = MP1,N,5
          DX(I) = DA*DX(I)
          DX(I+1) = DA*DX(I+1)
          DX(I+2) = DA*DX(I+2)
          DX(I+3) = DA*DX(I+3)
          DX(I+4) = DA*DX(I+4)
        END DO
      ELSE
*
*       code for increment not equal to 1
*
        NINCX = N*INCX
        DO I = 1,NINCX,INCX
          DX(I) = DA*DX(I)
        END DO
      END IF
      RETURN
      END
graph{{{digg}digh{{{digh}}}}}
graph{{SU_}SU_{}SU_{}SU_}
Graph{{subgra_}}
graph{{{di}di}di}
graph{SubgE{{SubgJ{SubgJ{SubgJ{SubgJ}}}}SubgJ}}
//** github.com/Tencent/bk-cmdb@v3.1.0-rc.1.0.20200226072203-90d9a93e8e0c+incompatible **//
```

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1.
 mgo r2016.08.01
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2. go-redis v6.7.4
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---
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3. securecookie 1.1
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4. context
  1.1
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5. pflag 1.0.0

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8.qs v6.5.1
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---

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2. glog maser
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3. Cobra 0.0.1
Copyright 2013-2017 Steve Francia spf@spf13.com

4. go-yaml master

5. echarts 4.0.4

6.vis v4.21.0
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7.vue-upload-component v2.6.2

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package cmplx64

import math "gonum.org/v1/gonum/internal/math32"

// The original C code, the long comment, and the constants
// below are from http://netlib.sandia.gov/cephes/c9x-complex/clog.c.
// The go code is a simplified version of the original C.
//
// Cephes Math Library Release 2.8: June, 2000
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//
//   The two known misprints in the book are repaired here in the
// source listings for the gamma function and the incomplete beta
// integral.
//
//   Stephen L. Moshier
//   moshier@na-net.ornl.gov

// Complex square root
//
// DESCRIPTION:

```
//
// If z = x + iy,  r = |z|, then
//
//                      1/2
// Re w  =  [ (r + x)/2 ]   ,
//
//                      1/2
// Im w  =  [ (r - x)/2 ]   .
//
// Cancelation error in r-x or r+x is avoided by using the
// identity  2 Re w Im w  =  y.
//
// Note that -w is also a square root of z. The root chosen
// is always in the right half plane and Im w has the same sign as y.
//
// ACCURACY:
//
//                      Relative error:
// arithmetic   domain     # trials      peak         rms
//    DEC       -10,+10     25000       3.2e-17     9.6e-18
//    IEEE      -10,+10   1,000,000     2.9e-16     6.1e-17

//
 Sqrt returns the square root of x.
// The result r is chosen so that real(r)  0 and imag(r) has the same sign as imag(x).
func Sqrt(x complex64) complex64 {
 if imag(x) == 0 {
  if real(x) == 0 {
   return complex(0, 0)
  }
  if real(x) < 0 {
   return complex(0, math.Sqrt(-real(x)))
  }
  return complex(math.Sqrt(real(x)), 0)
 }
 if real(x) == 0 {
  if imag(x) < 0 {
   r := math.Sqrt(-0.5 * imag(x))
   return complex(r, -r)
  }
  r := math.Sqrt(0.5 * imag(x))
  return complex(r, r)
 }
 a := real(x)
 b := imag(x)
 var scale float32
 // Rescale to avoid internal overflow or underflow.
 if math.Abs(a) > 4 || math.Abs(b) > 4 {
```

```
 a *= 0.25
 b *= 0.25
 scale = 2
} else {
 a *= 1.8014398509481984e16 // 2**54
 b *= 1.8014398509481984e16
 scale = 7.450580596923828125e-9 // 2**-27
}
r := math.Hypot(a, b)
var t float32
if a > 0 {
 t = math.Sqrt(0.5*r + 0.5*a)
 r = scale * math.Abs((0.5*b)/t)
 t *= scale
} else {
 r = math.Sqrt(0.5*r - 0.5*a)
 t = scale * math.Abs((0.5*b)/r)
 r
*= scale
}
if b < 0 {
 return complex(t, -r)
}
return complex(t, r)
}
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package gonum

import (
 "math"

 "gonum.org/v1/gonum/blas/blas64"
 "gonum.org/v1/gonum/lapack"
)

// Dlasq1 computes the singular values of an nn bidiagonal matrix with diagonal
// d and off-diagonal e. On exit, d contains the singular values in decreasing
// order, and e is overwritten. d must have length at least n, e must have
// length at least n-1, and the input work must have length at least 4*n. Dlasq1
// will panic if these conditions are not met.
//
// Dlasq1 is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dlasq1(n int, d, e, work []float64) (info int) {
 if n < 0 {
  panic(nLT0)
```

```
}

if n == 0 {
 return info
}

switch {
case len(d) < n:
 panic(shortD)
case len(e) < n-1:
 panic(shortE)
case len(work) < 4*n:
 panic(shortWork)
}

if n == 1 {
 d[0] = math.Abs(d[0])
 return
info
}

if n == 2 {
 d[1], d[0] = impl.Dlas2(d[0], e[0], d[1])
 return info
}

// Estimate the largest singular value.
var sigmx float64
for i := 0; i < n-1; i++ {
 d[i] = math.Abs(d[i])
 sigmx = math.Max(sigmx, math.Abs(e[i]))
}
d[n-1] = math.Abs(d[n-1])
// Early return if sigmx is zero (matrix is already diagonal).
if sigmx == 0 {
 impl.Dlasrt(lapack.SortDecreasing, n, d)
 return info
}

for i := 0; i < n; i++ {
 sigmx = math.Max(sigmx, d[i])
}

// Copy D and E into WORK (in the Z format) and scale (squaring the
// input data makes scaling by a power of the radix pointless).

eps := dlamchP
safmin := dlamchS
```

```
 scale := math.Sqrt(eps / safmin)
 bi := blas64.Implementation()
 bi.Dcopy(n, d, 1, work, 2)
 bi.Dcopy(n-1, e, 1, work[1:], 2)
 impl.Dlascl(lapack.General, 0, 0, sigmx, scale, 2*n-1, 1, work, 1)

 // Compute the q's and e's.
 for i := 0; i < 2*n-1; i++ {
  work[i] *= work[i]
 }
 work[2*n-1] = 0

 info = impl.Dlasq2(n, work)
 if info == 0 {
  for i :=
 0; i < n; i++ {
   d[i] = math.Sqrt(work[i])
  }
  impl.Dlascl(lapack.General, 0, 0, scale, sigmx, n, 1, d, 1)
 } else if info == 2 {
  // Maximum number of iterations exceeded. Move data from work
  // into D and E so the calling subroutine can try to finish.
  for i := 0; i < n; i++ {
   d[i] = math.Sqrt(work[2*i])
   e[i] = math.Sqrt(work[2*i+1])
  }
  impl.Dlascl(lapack.General, 0, 0, scale, sigmx, n, 1, d, 1)
  impl.Dlascl(lapack.General, 0, 0, scale, sigmx, n, 1, e, 1)
 }
 return info
}
graph{{STR{STR}STR}}
graph{sub{sub{{sub}{sub}sub}}}
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package path

// A disjoint set is a collection of non-overlapping sets. That is, for any two sets in the
// disjoint set, their intersection is the empty set.
//
// A disjoint set has three principle operations: Make Set, Find, and Union.
//
// Make set creates a new set for an element (presuming it does not already exist in any set in
// the disjoint set), Find finds the set containing that element (if any), and Union merges two
// sets in the disjoint set. In general, algorithms operating on disjoint sets are "union-find"
// algorithms, where two sets are found with Find, and then joined with Union.
```

```
//
// A concrete example of a union-find algorithm can be found as discrete.Kruskal -- which unions
// two sets when an edge is created between two vertices, and refuses to make an edge between two
// vertices if they're part of
 the same set.
type disjointSet struct {
 master map[int64]*disjointSetNode
}

type disjointSetNode struct {
 parent *disjointSetNode
 rank   int
}

func newDisjointSet() *disjointSet {
 return &disjointSet{master: make(map[int64]*disjointSetNode)}
}

// If the element isn't already somewhere in there, adds it to the master set and its own tiny set.
func (ds *disjointSet) makeSet(e int64) {
 if _, ok := ds.master[e]; ok {
  return
 }
 dsNode := &disjointSetNode{rank: 0}
 dsNode.parent = dsNode
 ds.master[e] = dsNode
}

// Returns the set the element belongs to, or nil if none.
func (ds *disjointSet) find(e int64) *disjointSetNode {
 dsNode, ok := ds.master[e]
 if !ok {
  return nil
 }

 return find(dsNode)
}

func find(dsNode *disjointSetNode) *disjointSetNode {
 if dsNode.parent != dsNode {
  dsNode.parent = find(dsNode.parent)
 }

 return dsNode.parent
}

// Unions two subsets within the disjointSet.
//
```

```
// If x or y are not in this disjoint set, the behavior is undefined. If either pointer
 is nil,
// this function will panic.
func (ds *disjointSet) union(x, y *disjointSetNode) {
 if x == nil || y == nil {
  panic("Disjoint Set union on nil sets")
 }
 xRoot := find(x)
 yRoot := find(y)
 if xRoot == nil || yRoot == nil {
  return
 }

 if xRoot == yRoot {
  return
 }

 if xRoot.rank < yRoot.rank {
  xRoot.parent = yRoot
 } else if yRoot.rank < xRoot.rank {
  yRoot.parent = xRoot
 } else {
  yRoot.parent = xRoot
  xRoot.rank++
 }
}
graph{{{Subgrap{Subgrap}Subgrap{Subgrap}}}}
graph{<<><><>>}
graph{{SUBGRAPH{SUBGRAPH{{SUBGRAPH{}}}}}}
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// TODO(kortschak): Implement:
// * edge-weighted PageRank and HITS
// * PersonalizedPageRank:
//    http://infolab.stanford.edu/~backrub/google.html 2.1.2 Intuitive Justification
//    http://ilpubs.stanford.edu:8090/596/1/2003-35.pdf
//    http://www.vldb.org/pvldb/vol7/p1023-maehara.pdf
// * other centrality measures

package network
graph{{Su_{Su_{Su_}{Su_{Su_}{Su_}}}}}
digraph{graphe}
graph{{GRAP}GRAP{{{GRAP}}{{GRAP}GRAP}{{GRAP}GRAP}{{GRAP}GRAP}{{}GRAP}}}
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```

```
package testblas

import (
 "fmt"
 "testing"

 "golang.org/x/exp/rand"
 "gonum.org/v1/gonum/blas"
)

type Zsymmer interface {
 Zsymm(side blas.Side, uplo blas.Uplo, m, n int, alpha complex128, a []complex128, lda int, b []complex128, ldb int,
beta complex128, c []complex128, ldc int)
}

func ZsymmTest(t *testing.T, impl Zsymmer) {
 for _, side := range []blas.Side{blas.Left, blas.Right} {
  for _, uplo := range []blas.Uplo{blas.Lower, blas.Upper} {
   name := sideString(side) + "-" + uploString(uplo)
   t.Run(name, func(t *testing.T) {
    for _, m := range []int{0, 1, 2, 3, 4, 5} {
     for _, n := range []int{0, 1, 2, 3, 4, 5} {
      zsymmTest(t, impl, side, uplo, m, n)
     }
    }
   })
  }
 }
}

func zsymmTest(t *testing.T, impl Zsymmer, side blas.Side, uplo blas.Uplo, m, n int) {
 const tol = 1e-13

 rnd := rand.New(rand.NewSource(1))

 nA
 := m
 if side == blas.Right {
  nA = n
 }
 for _, lda := range []int{max(1, nA), nA + 2} {
  for _, ldb := range []int{max(1, n), n + 3} {
   for _, ldc := range []int{max(1, n), n + 4} {
    for _, alpha := range []complex128{0, 1, complex(0.7, -0.9)} {
     for _, beta := range []complex128{0, 1, complex(1.3, -1.1)} {
      // Allocate the matrix A and fill it with random numbers.
      a := make([]complex128, nA*lda)
```

```
    for i := range a {
     a[i] = rndComplex128(rnd)
    }
    // Create a copy of A for checking that
    // Zsymm does not modify its triangle
    // opposite to uplo.
    aCopy := make([]complex128, len(a))
    copy(aCopy, a)
    // Create a copy of A expanded into a
    // full symmetric matrix for computing
    // the expected result using zmm.
    aSym := make([]complex128, len(a))
    copy(aSym, a)
    if uplo == blas.Upper {
     for i := 0; i < nA-1; i++ {
      for j := i + 1; j < nA; j++ {
       aSym[j*lda+i]
= aSym[i*lda+j]
      }
     }
    } else {
     for i := 1; i < nA; i++ {
      for j := 0; j < i; j++ {
       aSym[j*lda+i] = aSym[i*lda+j]
      }
     }
    }

    // Allocate the matrix B and fill it with random numbers.
    b := make([]complex128, m*ldb)
    for i := range b {
     b[i] = rndComplex128(rnd)
    }
    // Create a copy of B for checking that
    // Zsymm does not modify B.
    bCopy := make([]complex128, len(b))
    copy(bCopy, b)

    // Allocate the matrix C and fill it with random numbers.
    c := make([]complex128, m*ldc)
    for i := range c {
     c[i] = rndComplex128(rnd)
    }
    // Create a copy of C for checking that
    // Zsymm does not modify C.
    cCopy := make([]complex128, len(c))
    copy(cCopy, c)
```

```
      // Compute the expected result using an internal Zgemm implementation.
      var want []complex128
      if side == blas.Left {
       want = zmm(blas.NoTrans, blas.NoTrans, m, n, m,
 alpha, aSym, lda, b, ldb, beta, c, ldc)
      } else {
       want = zmm(blas.NoTrans, blas.NoTrans, m, n, n, alpha, b, ldb, aSym, lda, beta, c, ldc)
      }

      // Compute the result using Zsymm.
      impl.Zsymm(side, uplo, m, n, alpha, a, lda, b, ldb, beta, c, ldc)

      prefix := fmt.Sprintf("m=%v,n=%v,lda=%v,ldb=%v,ldc=%v,alpha=%v,beta=%v", m, n, lda, ldb, ldc, alpha, beta)

      if !zsame(a, aCopy) {
       t.Errorf("%v: unexpected modification of A", prefix)
       continue
      }
      if !zsame(b, bCopy) {
       t.Errorf("%v: unexpected modification of B", prefix)
       continue
      }

      if !zEqualApprox(c, want, tol) {
       t.Errorf("%v: unexpected result", prefix)
      }
     }
    }
   }
  }
 }
}
graph{{{DIGG}DIGG{}DIGG{DIGG}DIGG}}
graph{{{striN{striN}striN}striN{striN}striN{striN}striN}striN{striN}}
graph{DiGr{{{DiGr}{DiGr}DiGr}{DiGr}DiGr}}
digraph{{digrape}{digrape}}
digraph {Er{}Et->Et Et}
<?xml version="1.0" encoding="UTF-8"?>
<gexf xmlns="http://www.gexf.net/1.2draft"
xmlns:viz="http://www.gexf.net/1.2draft/viz"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.gexf.net/1.2draft
                http://www.gexf.net/1.2draft/gexf.xsd"
version="1.2">
  <meta lastmodifieddate="2009-10-01">
     <creator>Gephi.org</creator>
     <description>A hierarchy file</description>
  </meta>
```

```
  <graph mode="static" defaultedgetype="directed">
      <nodes>
        <node id="g" label="frog2" pid="e" />
        <node id="a" label="Kevin Bacon" />
        <node id="c" label="human1" pid="b" />
        <node id="b" label="God" pid="a" />
        <node id="e" label="Me" pid="a" />
        <node id="d" label="human2" pid="b" />
        <node id="f" label="frog1" pid="e" />
      </nodes>
      <edges>
         <edge id="0" source="b" target="e" />
         <edge id="1" source="c" target="d" />
         <edge
 id="2" source="g" target="b" />
         <edge id="3" source="f" target="a" />
      </edges>
  </graph>
</gexf>
graph{{subGr_}}
graph{__{__}_}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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// license that can be found in the LICENSE file.

package unit

import (
 "errors"
 "fmt"
 "math"
 "unicode/utf8"
)

// Power represents a power in Watts.
type Power float64

const Watt Power = 1

// Unit converts the Power to a *Unit
func (pw Power) Unit() *Unit {
 return New(float64(pw), Dimensions{
  LengthDim: 2,
  MassDim:   1,
  TimeDim:   -3,
 })
```

```
}

// Power allows Power to implement a Powerer interface
func (pw Power) Power() Power {
 return pw
}

// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (pw *Power) From(u Uniter) error {
 if !DimensionsMatch(u, Watt) {
  *pw = Power(math.NaN())
  return errors.New("Dimension mismatch")
 }
 *pw = Power(u.Unit().Value())
 return nil
}

func (pw Power) Format(fs fmt.State, c rune) {
 switch c {
 case
 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", pw, float64(pw))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " W"
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(pw))
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(pw))
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(pw))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(pw))
  }
  fmt.Fprint(fs, unit)
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g W)", c, pw, float64(pw))
 }
}
graph{{GRAC{{GRAB}}GRAC{{GRAB}}}}
```

```
graph{e[l="\N"e=""h=""t=""r=""][r=""]/**/""--""--""--""--""--""[r=""n=2.6]""--""[r=""t=""]""--""[r=""t=""]""--
""[r=""t=""]""--""[r=""t=""]""--""[r=""t=""]""--""--""--""--""--""}
digraph{E_}
graph{{{{DiGu}{DiGu}{DiGu}DiGv}{DiGu}}}
graph{diGrapS{{{{diGrapC}diGrapS}}diGrapS}}
graph{{EdO""EdP}EdP}
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// Package cmplx64 provides complex64 versions of standard library math/cmplx
// package routines used by gonum/blas.
package cmplx64 // import "gonum.org/v1/gonum/internal/cmplx64"
graph{SUB{SUB{SUB}SUB}}
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// license that can be found in the LICENSE file.

package testblas

import (
 "fmt"
 "testing"
)

type Zdscaler interface {
 Zdscal(n int, alpha float64, x []complex128, incX int)
}

func ZdscalTest(t *testing.T, impl Zdscaler) {
 for tc, test := range []struct {
  alpha float64
  x     []complex128
  want  []complex128
 }{
  {
   alpha: 3,
   x:     nil,
   want:  nil,
  },
  {
   alpha: 3,
   x:     []complex128{1 + 2i},
   want:  []complex128{3 + 6i},
  },
  {
   alpha: 3,
   x:     []complex128{1 + 2i, 3 + 4i},
```

```
 want:  []complex128{3 + 6i, 9 + 12i},
},
{
 alpha: 3,
 x:     []complex128{1 + 2i, 3 + 4i, 5 + 6i},
 want:  []complex128{3 + 6i, 9 + 12i, 15 + 18i},
},
{
 alpha: 3,
 x:     []complex128{1 + 2i, 3 + 4i, 5 + 6i, 7 + 8i},
 want:  []complex128{3 + 6i, 9 + 12i, 15 + 18i, 21 + 24i},
},
{
 alpha: 3,
 x:     []complex128{1 + 2i, 3 + 4i, 5 + 6i,
7 + 8i, 9 + 10i},
 want:  []complex128{3 + 6i, 9 + 12i, 15 + 18i, 21 + 24i, 27 + 30i},
},
{
 alpha: 3,
 x:     []complex128{1 + 2i, 3 + 4i, 5 + 6i, 7 + 8i, 9 + 10i, 11 + 12i},
 want:  []complex128{3 + 6i, 9 + 12i, 15 + 18i, 21 + 24i, 27 + 30i, 33 + 36i},
},
{
 alpha: 3,
 x:     []complex128{1 + 2i, 3 + 4i, 5 + 6i, 7 + 8i, 9 + 10i, 11 + 12i, 13 + 14i},
 want:  []complex128{3 + 6i, 9 + 12i, 15 + 18i, 21 + 24i, 27 + 30i, 33 + 36i, 39 + 42i},
},
{
 alpha: 3,
 x:     []complex128{1 + 2i, 3 + 4i, 5 + 6i, 7 + 8i, 9 + 10i, 11 + 12i, 13 + 14i, 15 + 16i},
 want:  []complex128{3 + 6i, 9 + 12i, 15 + 18i, 21 + 24i, 27 + 30i, 33 + 36i, 39 + 42i, 45 + 48i},
},
{
 alpha: 3,
 x:     []complex128{1 + 2i, 3 + 4i, 5 + 6i, 7 + 8i, 9 + 10i, 11 + 12i, 13 + 14i, 15 + 16i, 17 + 18i},
 want:  []complex128{3 + 6i, 9 + 12i, 15 + 18i, 21 + 24i, 27 + 30i, 33 + 36i, 39 + 42i, 45 + 48i, 51 + 54i},
},
{
 alpha: 3,
 x:     []complex128{1 + 2i, 3 + 4i, 5 + 6i, 7 + 8i,
9 + 10i, 11 + 12i, 13 + 14i, 15 + 16i, 17 + 18i, 19 + 20i},
 want:  []complex128{3 + 6i, 9 + 12i, 15 + 18i, 21 + 24i, 27 + 30i, 33 + 36i, 39 + 42i, 45 + 48i, 51 + 54i, 57 + 60i},
},
{
 alpha: 3,
 x:     []complex128{1 + 2i, 3 + 4i, 5 + 6i, 7 + 8i, 9 + 10i, 11 + 12i, 13 + 14i, 15 + 16i, 17 + 18i, 19 + 20i, 21 + 22i},
 want:  []complex128{3 + 6i, 9 + 12i, 15 + 18i, 21 + 24i, 27 + 30i, 33 + 36i, 39 + 42i, 45 + 48i, 51 + 54i, 57 + 60i, 63
```

```
+ 66i},
  },
  {
   alpha: 3,
   x:     []complex128{1 + 2i, 3 + 4i, 5 + 6i, 7 + 8i, 9 + 10i, 11 + 12i, 13 + 14i, 15 + 16i, 17 + 18i, 19 + 20i, 21 + 22i,
23 + 24i},
   want:  []complex128{3 + 6i, 9 + 12i, 15 + 18i, 21 + 24i, 27 + 30i, 33 + 36i, 39 + 42i, 45 + 48i, 51 + 54i, 57 + 60i, 63
+ 66i, 69 + 72i},
  },
  {
   alpha: 0,
   x:     []complex128{1 + 2i, 3 + 4i, 5 + 6i, 7 + 8i, 9 + 10i, 11 + 12i, 13 + 14i, 15 + 16i, 17 + 18i, 19 + 20i, 21 + 22i,
23 + 24i},
   want:  []complex128{0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0},
  },
 } {
  n := len(test.x)
  if
 len(test.want) != n {
   panic("bad test")
  }
  for _, incX := range []int{-3, -1, 1, 2, 4, 7, 10} {
   x := makeZVector(test.x, incX)
   xCopy := make([]complex128, len(x))
   copy(xCopy, x)

   want := makeZVector(test.want, incX)

   impl.Zdscal(n, test.alpha, x, incX)

   prefix := fmt.Sprintf("Case %v (n=%v,incX=%v):", tc, n, incX)

   if incX < 0 {
    if !zsame(x, xCopy) {
     t.Errorf("%v: unexpected modification of x\nwant %v\ngot %v", prefix, want, x)
    }
    continue
   }
   if !zsame(x, want) {
    t.Errorf("%v: unexpected result:\nwant: %v\ngot: %v", prefix, want, x)
   }
  }
 }
}
// SPDX-License-Identifier: Unlicense OR MIT

package material
```

```
import (
 "image"

 "gioui.org/f32"
 "gioui.org/layout"
 "gioui.org/op"
 "gioui.org/op/clip"
 "gioui.org/op/paint"
 "gioui.org/unit"
)

// Image is a widget that displays an image.
type Image struct {
 // Src is the image to display.
 Src paint.ImageOp
 // Scale is the ratio of image pixels to
 // dps.
 Scale float32
}

func (t *Theme) Image(img paint.ImageOp) Image {
 return Image{
  Src:   img,
  Scale: 160 / 72, // About 72 DPI.
 }
}

func (im Image) Layout(gtx *layout.Context) {
 size := im.Src.Size()
 wf, hf := float32(size.X), float32(size.Y)
 w, h := gtx.Px(unit.Dp(wf*im.Scale)), gtx.Px(unit.Dp(hf*im.Scale))
 cs := gtx.Constraints
 d := image.Point{X: cs.Width.Constrain(w), Y: cs.Height.Constrain(h)}
 var s op.StackOp
 s.Push(gtx.Ops)
 clip.Rect{Rect: f32.Rectangle{Max: toPointF(d)}}.Op(gtx.Ops).Add(gtx.Ops)
 im.Src.Add(gtx.Ops)
 paint.PaintOp{Rect: f32.Rectangle{Max: f32.Point{X: float32(w), Y: float32(h)}}}.Add(gtx.Ops)
 s.Pop()
 gtx.Dimensions
 = layout.Dimensions{Size: d}
}
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package optimize
```

```
import "gonum.org/v1/gonum/floats"

var (
 _ Method      = (*GradientDescent)(nil)
 _ localMethod = (*GradientDescent)(nil)
)

// GradientDescent implements the steepest descent optimization method that
// performs successive steps along the direction of the negative gradient.
type GradientDescent struct {
 // Linesearcher selects suitable steps along the descent direction.
 // If Linesearcher is nil, a reasonable default will be chosen.
 Linesearcher Linesearcher
 // StepSizer determines the initial step size along each direction.
 // If StepSizer is nil, a reasonable default will be chosen.
 StepSizer StepSizer
 // GradStopThreshold sets the threshold for stopping if the gradient norm
 // gets too small. If GradStopThreshold is 0 it is defaulted to 1e-12, and
 // if it is NaN the setting is not used.
 GradStopThreshold
 float64

 ls *LinesearchMethod

 status Status
 err    error
}

func (g *GradientDescent) Status() (Status, error) {
 return g.status, g.err
}

func (*GradientDescent) Uses(has Available) (uses Available, err error) {
 return has.gradient()
}

func (g *GradientDescent) Init(dim, tasks int) int {
 g.status = NotTerminated
 g.err = nil
 return 1
}

func (g *GradientDescent) Run(operation chan<- Task, result <-chan Task, tasks []Task) {
 g.status, g.err = localOptimizer{}.run(g, g.GradStopThreshold, operation, result, tasks)
 close(operation)
}

func (g *GradientDescent) initLocal(loc *Location) (Operation, error) {
```

```
 if g.Linesearcher == nil {
  g.Linesearcher = &Backtracking{}
 }
 if g.StepSizer == nil {
  g.StepSizer = &QuadraticStepSize{}
 }

 if g.ls == nil {
  g.ls = &LinesearchMethod{}
 }
 g.ls.Linesearcher = g.Linesearcher
 g.ls.NextDirectioner = g

 return g.ls.Init(loc)
}

func (g *GradientDescent) iterateLocal(loc *Location) (Operation, error) {
 return g.ls.Iterate(loc)
}

func
 (g *GradientDescent) InitDirection(loc *Location, dir []float64) (stepSize float64) {
 copy(dir, loc.Gradient)
 floats.Scale(-1, dir)
 return g.StepSizer.Init(loc, dir)
}

func (g *GradientDescent) NextDirection(loc *Location, dir []float64) (stepSize float64) {
 copy(dir, loc.Gradient)
 floats.Scale(-1, dir)
 return g.StepSizer.StepSize(loc, dir)
}

func (*GradientDescent) needs() struct {
 Gradient bool
 Hessian  bool
} {
 return struct {
  Gradient bool
  Hessian  bool
 }{true, false}
}
graph{subGrap{{b{subGrap}}}}
Graph{{Graphg}}
graph{{GS}{GS}}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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```

```
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package unit

import (
 "fmt"
 "testing"
)

func TestAreaFormat(t *testing.T) {
 for _, test := range []struct {
  value  Area
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 m^2"},
  {1.23456789, "%.1v", "1 m^2"},
  {1.23456789, "%20.1v", "               1 m^2"},
  {1.23456789, "%20v", "      1.23456789 m^2"},
  {1.23456789, "%1v", "1.23456789 m^2"},
  {1.23456789, "%#v", "unit.Area(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Area=1.23456789 m^2)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
graph{{{DiV{{DiW}{DiW}}}}}
graph{{d_{d_}d_{{d_}{d_}}d_}}
graph{{__}_}
graph{{dig_}{dig_}dig_}
graph{diG8{}diG5}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "fmt"
 "testing"
)
```

```
func TestConductanceFormat(t *testing.T) {
 for _, test := range []struct {
  value  Conductance
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 S"},
  {1.23456789, "%.1v", "1 S"},
  {1.23456789, "%20.1v", "                 1 S"},
  {1.23456789, "%20v", "        1.23456789 S"},
  {1.23456789, "%1v", "1.23456789 S"},
  {1.23456789, "%#v", "unit.Conductance(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Conductance=1.23456789 S)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
```

graph{{{{EDG_{{{EDG_}EDG_}}}}}}
graph{{Stra-9Stra}Stra-9Stra}

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Graph{Grap[]Grap[]Grap[]Grap}
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// license that can be found in the LICENSE file.

```
package testlapack

import (
 "fmt"
 "math"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
 "gonum.org/v1/gonum/floats"
)

type Dpbtrser interface {
 Dpbtrs(uplo blas.Uplo, n, kd, nrhs int, ab []float64, ldab int, b []float64, ldb int)

 Dpbtrfer
}

// DpbtrsTest tests Dpbtrs by comparing the computed and known, generated solutions of
// a linear system with a random symmetric positive definite band matrix.
func DpbtrsTest(t *testing.T, impl Dpbtrser) {
 rnd := rand.New(rand.NewSource(1))
```

```
 for _, n := range []int{0, 1, 2, 3, 4, 5, 65, 100, 129} {
  for _, kd := range []int{0, (n + 1) / 4, (3*n - 1) / 4, (5*n + 1) / 4} {
   for _, nrhs := range []int{0, 1, 2, 5} {
    for _, uplo := range []blas.Uplo{blas.Upper, blas.Lower} {
     for _, ldab := range []int{kd + 1, kd + 1 + 3}
 {
      for _, ldb := range []int{max(1, nrhs), nrhs + 4} {
       dpbtrsTest(t, impl, rnd, uplo, n, kd, nrhs, ldab, ldb)
      }
     }
    }
   }
  }
 }
}

func dpbtrsTest(t *testing.T, impl Dpbtrser, rnd *rand.Rand, uplo blas.Uplo, n, kd, nrhs int, ldab, ldb int) {
 const tol = 1e-12

 name := fmt.Sprintf("uplo=%v,n=%v,kd=%v,nrhs=%v,ldab=%v,ldb=%v", string(uplo), n, kd, nrhs, ldab, ldb)

 // Generate a random symmetric positive definite band matrix.
 ab := randSymBand(uplo, n, kd, ldab, rnd)

 // Compute the Cholesky decomposition of A.
 abFac := make([]float64, len(ab))
 copy(abFac, ab)
 ok := impl.Dpbtrf(uplo, n, kd, abFac, ldab)
 if !ok {
  t.Fatalf("%v: bad test matrix, Dpbtrs failed", name)
 }
 abFacCopy := make([]float64, len(abFac))
 copy(abFacCopy, abFac)

 // Generate a random solution.
 xWant := make([]float64, n*ldb)
 for i := range xWant {
  xWant[i] = rnd.NormFloat64()
 }

 // Compute the corresponding right-hand side.
 bi := blas64.Implementation()
 b := make([]float64,
 len(xWant))
 if n > 0 {
  for j := 0; j < nrhs; j++ {
   bi.Dsbmv(uplo, n, kd, 1, ab, ldab, xWant[j:], ldb, 0, b[j:], ldb)
  }
```

```
 }

 // Solve  U * U * X = B  or  L * L * X = B.
 impl.Dpbtrs(uplo, n, kd, nrhs, abFac, ldab, b, ldb)
 xGot := b

 // Check that the Cholesky factorization matrix has not been modified.
 if !floats.Equal(abFac, abFacCopy) {
  t.Errorf("%v: unexpected modification of ab", name)
 }

 // Compute and check the max-norm difference between the computed and generated solutions.
 var diff float64
 for i := 0; i < n; i++ {
  for j := 0; j < nrhs; j++ {
   diff = math.Max(diff, math.Abs(xWant[i*ldb+j]-xGot[i*ldb+j]))
  }
 }
 if diff > tol {
  t.Errorf("%v: unexpected result, diff=%v", name, diff)
 }
}
graph{digY{{digD{digD}}}digY}
graph{DiGr{{{DiGr}DiGr}{DiGr}DiGr}}
Graph{{{Subgr}}Subgr}
graph{{{{e_}e_}}}
graph{{Dig_}Dig_{}Dig_{Dig_}Dig_{Dig_}}
graph{"\
""\
"}
graph{DIGRC}
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// license that can be found in the LICENSE file.

package testlapack

import (
 "fmt"
 "math"
 "testing"

 "golang.org/x/exp/rand"
)

type Dlanv2er interface {
 Dlanv2(a, b, c, d float64) (aa, bb, cc, dd float64, rt1r, rt1i, rt2r, rt2i float64, cs, sn float64)
}
```

```
func Dlanv2Test(t *testing.T, impl Dlanv2er) {
 rnd := rand.New(rand.NewSource(1))
 t.Run("UpperTriangular", func(t *testing.T) {
  for i := 0; i < 10; i++ {
   a := rnd.NormFloat64()
   b := rnd.NormFloat64()
   d := rnd.NormFloat64()
   dlanv2Test(t, impl, a, b, 0, d)
  }
 })
 t.Run("LowerTriangular", func(t *testing.T) {
  for i := 0; i < 10; i++ {
   a := rnd.NormFloat64()
   c := rnd.NormFloat64()
   d := rnd.NormFloat64()
   dlanv2Test(t, impl, a, 0, c, d)
  }
 })
 t.Run("StandardSchur", func(t *testing.T) {
  for i := 0; i < 10; i++ {
   a := rnd.NormFloat64()
   b := rnd.NormFloat64()
   c := rnd.NormFloat64()
   if
 math.Signbit(b) == math.Signbit(c) {
    c = -c
   }
   dlanv2Test(t, impl, a, b, c, a)
  }
 })
 t.Run("General", func(t *testing.T) {
  for i := 0; i < 100; i++ {
   a := rnd.NormFloat64()
   b := rnd.NormFloat64()
   c := rnd.NormFloat64()
   d := rnd.NormFloat64()
   dlanv2Test(t, impl, a, b, c, d)
  }
 })
}

func dlanv2Test(t *testing.T, impl Dlanv2er, a, b, c, d float64) {
 aa, bb, cc, dd, rt1r, rt1i, rt2r, rt2i, cs, sn := impl.Dlanv2(a, b, c, d)

 mat := fmt.Sprintf("[%v %v; %v %v]", a, b, c, d)
 if cc == 0 {
  // The eigenvalues are real, so check that the imaginary parts
```

```
 // are zero.
 if rt1i != 0 || rt2i != 0 {
  t.Errorf("Unexpected complex eigenvalues for %v", mat)
 }
} else {
 // The eigenvalues are complex, so check that documented
 // conditions hold.
 if aa != dd {
  t.Errorf("Diagonal elements not equal for %v: got [%v %v]", mat, aa, dd)
 }
 if bb*cc >= 0 {
  t.Errorf("Non-diagonal elements have the same sign for %v: got [%v %v]", mat, bb, cc)
 } else
{
  // Compute the absolute value of the imaginary part.
  im := math.Sqrt(-bb * cc)
  // Check that im is close to one of the returned
  // imaginary parts.
  if math.Abs(rt1i-im) > 1e-14 && math.Abs(rt1i+im) > 1e-14 {
   t.Errorf("Unexpected imaginary part of eigenvalue for %v: got %v, want %v or %v", mat, rt1i, im, -im)
  }
  if math.Abs(rt2i-im) > 1e-14 && math.Abs(rt2i+im) > 1e-14 {
   t.Errorf("Unexpected imaginary part of eigenvalue for %v: got %v, want %v or %v", mat, rt2i, im, -im)
  }
 }
}
// Check that the returned real parts are consistent.
if rt1r != aa && rt1r != dd {
 t.Errorf("Unexpected real part of eigenvalue for %v: got %v, want %v or %v", mat, rt1r, aa, dd)
}
if rt2r != aa && rt2r != dd {
 t.Errorf("Unexpected real part of eigenvalue for %v: got %v, want %v or %v", mat, rt2r, aa, dd)
}
// Check that the columns of the orthogonal matrix have unit norm.
if math.Abs(math.Hypot(cs, sn)-1) > 1e-14 {
 t.Errorf("Unexpected unitary matrix for %v: got
cs %v, sn %v", mat, cs, sn)
}

// Re-compute the original matrix [a b; c d] from its factorization.
gota := cs*(aa*cs-bb*sn) - sn*(cc*cs-dd*sn)
gotb := cs*(aa*sn+bb*cs) - sn*(cc*sn+dd*cs)
gotc := sn*(aa*cs-bb*sn) + cs*(cc*cs-dd*sn)
gotd := sn*(aa*sn+bb*cs) + cs*(cc*sn+dd*cs)
if math.Abs(gota-a) > 1e-14 ||
 math.Abs(gotb-b) > 1e-14 ||
 math.Abs(gotc-c) > 1e-14 ||
 math.Abs(gotd-d) > 1e-14 {
```

```
  t.Errorf("Unexpected factorization: got [%v %v; %v %v], want [%v %v; %v %v]", gota, gotb, gotc, gotd, a, b, c, d)
 }
}
graph{digY{{digD}}digY}
graph{{{digrr}{digrr{{digrr}{digrr}digrr}{digrr}}}}
graph{{stric}stric{stric{stric{stric}}{stric}}}
graph{{subgrap_}{subgrap_}{subgrap_}{subgrap_}}
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// license that can be found in the LICENSE file.

package testlapack

import (
 "math"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
 "gonum.org/v1/gonum/floats"
)

type Dlarfger interface {
 Dlarfg(n int, alpha float64, x []float64, incX int) (beta, tau float64)
}

func DlarfgTest(t *testing.T, impl Dlarfger) {
 const tol = 1e-14
 rnd := rand.New(rand.NewSource(1))
 for i, test := range []struct {
  alpha float64
  n     int
  x     []float64
 }{
  {
   alpha: 4,
   n:     3,
  },
  {
   alpha: -2,
   n:     3,
  },
  {
   alpha: 0,
```

```
 n:     3,
},
{
 alpha: 1,
 n:     1,
},
{
 alpha: 1,
 n:     4,
 x:     []float64{4, 5, 6},
},
{
 alpha: 1,
 n:     4,
 x:     []float64{0, 0, 0},
},
{
 alpha: dlamchS,
 n:     4,
 x:     []float64{dlamchS, dlamchS, dlamchS},
},
} {
n := test.n
incX
:= 1
var x []float64
if test.x == nil {
 x = make([]float64, n-1)
 for i := range x {
  x[i] = rnd.Float64()
 }
} else {
 if len(test.x) != n-1 {
  panic("bad test")
 }
 x = make([]float64, n-1)
 copy(x, test.x)
}
xcopy := make([]float64, n-1)
copy(xcopy, x)
alpha := test.alpha
beta, tau := impl.Dlarfg(n, alpha, x, incX)

// Verify the returns and the values in v. Construct h and perform
// the explicit multiplication.
h := make([]float64, n*n)
for i := 0; i < n; i++ {
 h[i*n+i] = 1
```

```
 }
 hmat := blas64.General{
  Rows:   n,
  Cols:   n,
  Stride: n,
  Data:   h,
 }
 v := make([]float64, n)
 copy(v[1:], x)
 v[0] = 1
 vVec := blas64.Vector{
  Inc:  1,
  Data: v,
 }
 blas64.Ger(-tau, vVec, vVec, hmat)
 eye := blas64.General{
  Rows:   n,
  Cols:   n,
  Stride: n,
  Data:   make([]float64, n*n),
 }
 blas64.Gemm(blas.Trans, blas.NoTrans, 1, hmat, hmat, 0, eye)
 dist := distFromIdentity(n, eye.Data, n)
 if dist > tol {
  t.Errorf("H
* H is not close to I, dist=%v", dist)
 }

 xVec := blas64.Vector{
  Inc:  1,
  Data: make([]float64, n),
 }
 xVec.Data[0] = test.alpha
 copy(xVec.Data[1:], xcopy)

 ans := make([]float64, n)
 ansVec := blas64.Vector{
  Inc:  1,
  Data: ans,
 }
 blas64.Gemv(blas.NoTrans, 1, hmat, xVec, 0, ansVec)
 if math.Abs(ans[0]-beta) > tol {
  t.Errorf("Case %v, beta mismatch. Want %v, got %v", i, ans[0], beta)
 }
 if floats.Norm(ans[1:n], math.Inf(1)) > tol {
  t.Errorf("Case %v, nonzero answer %v", i, ans[1:n])
 }
}
```

```
}
graph{{{gr_{}gr_}gr_{gr_}gr_}}
// Code generated by "go generate gonum.org/v1/gonum/unit/constant; DO NOT EDIT.

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package constant

import "gonum.org/v1/gonum/unit"

// FineStructure is the fine structure constant (), it describes the strength of the electromagnetic interaction between
elementary charged particles. The standard uncertainty of the constant is 1.1e-12 .
const FineStructure = unit.Dimless(0.0072973525693)
digraph {
 A
}
graph{{{{{str_}{str_}}}str_}{str_}}}
graph{{{{ED}ED}}}
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graph{{DiGrap}DiGrapp}
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// Package barneshut provides routines for calculating n-body force approximations
// using the Barnes-Hut algorithm.
//
// See https://en.wikipedia.org/wiki/BarnesHut_simulation, http://arborjs.org/docs/barnes-hut
// and https://jheer.github.io/barnes-hut/ for details.
package barneshut // import "gonum.org/v1/gonum/spatial/barneshut"
graph{{DiGrapg}DiGrapb}
graph{subg_{}subg_{subg_}subg_{subg_{}subg_}}
graph{{no9{{no9}{no9}{no6}}no6{{no9{{no9}{no6}}no6}}}}
graph{{{graph_{}graph_}}graph_}
graph{{{{{grapr{}grapr{grapr}}}}grapr{}grapr{grapr}}}}
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// license that can be found in the LICENSE file.

package quat

import (
 "math"
 "testing"
)
```

```
var absTests = []struct {
 q    Number
 want float64
}{
 {q: Number{}, want: 0},
 {q: NaN(), want: nan},
 {q: Inf(), want: inf},
 {q: Number{Real: 1, Imag: 1, Jmag: 1, Kmag: 1}, want: 2},
 {q: Number{Real: -1, Imag: 1, Jmag: -1, Kmag: 1}, want: 2},
 {q: Number{Real: 1, Imag: 2, Jmag: 3, Kmag: 4}, want: math.Sqrt(1 + 4 + 9 + 16)},
 {q: Number{Real: -1, Imag: -2, Jmag: -3, Kmag: -4}, want: math.Sqrt(1 + 4 + 9 + 16)},
}

func TestAbs(t *testing.T) {
 for _, test := range absTests {
  got := Abs(test.q)
  if math.IsNaN(test.want) {
   if !math.IsNaN(got) {
    t.Errorf("unexpected result for Abs(%v): got:%v want:%v", test.q, got, test.want)
   }
   continue
  }
  if got != test.want {
   t.Errorf("unexpected result for Abs(%v): got:%v want:%v", test.q, got, test.want)
  }
 }
}
graph{{DG{DG}DG{DG}DG{DG{DG}DG}{DG{DG}DG}}}
graph{{{SUBB}{SUBB}SUBB}SUBB{{SUBB}{SUBB}}}
graph{{{ED}}ED}
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package distuv

import (
 "math"

 "golang.org/x/exp/rand"
)

// GumbelRight implements the right-skewed Gumbel distribution, a two-parameter
// continuous distribution with support over the real numbers. The right-skewed
// Gumbel distribution is also sometimes known as the Extreme Value distribution.
//
// The right-skewed Gumbel distribution has density function
```

```
//  1/beta * exp(-(z + exp(-z)))
//  z = (x - mu)/beta
// Beta must be greater than 0.
//
// For more information, see https://en.wikipedia.org/wiki/Gumbel_distribution.
type GumbelRight struct {
 Mu   float64
 Beta float64
 Src  rand.Source
}

func (g GumbelRight) z(x float64) float64 {
 return (x - g.Mu) / g.Beta
}

// CDF computes the value of the cumulative density function at x.
func (g GumbelRight) CDF(x float64) float64 {
 z := g.z(x)
 return math.Exp(-math.Exp(-z))
}

//
 Entropy returns the differential entropy of the distribution.
func (g GumbelRight) Entropy() float64 {
 return math.Log(g.Beta) + eulerMascheroni + 1
}

// ExKurtosis returns the excess kurtosis of the distribution.
func (g GumbelRight) ExKurtosis() float64 {
 return 12.0 / 5
}

// LogProb computes the natural logarithm of the value of the probability density function at x.
func (g GumbelRight) LogProb(x float64) float64 {
 z := g.z(x)
 return -math.Log(g.Beta) - z - math.Exp(-z)
}

// Mean returns the mean of the probability distribution.
func (g GumbelRight) Mean() float64 {
 return g.Mu + g.Beta*eulerMascheroni
}

// Median returns the median of the normal distribution.
func (g GumbelRight) Median() float64 {
 return g.Mu - g.Beta*math.Log(math.Ln2)
}
```

```
// Mode returns the mode of the normal distribution.
func (g GumbelRight) Mode() float64 {
 return g.Mu
}

// NumParameters returns the number of parameters in the distribution.
func (GumbelRight) NumParameters() int {
 return
 2
}

// Prob computes the value of the probability density function at x.
func (g GumbelRight) Prob(x float64) float64 {
 return math.Exp(g.LogProb(x))
}

// Quantile returns the inverse of the cumulative probability distribution.
func (g GumbelRight) Quantile(p float64) float64 {
 if p < 0 || 1 < p {
  panic(badPercentile)
 }
 return g.Mu - g.Beta*math.Log(-math.Log(p))
}

// Rand returns a random sample drawn from the distribution.
func (g GumbelRight) Rand() float64 {
 var rnd float64
 if g.Src == nil {
  rnd = rand.ExpFloat64()
 } else {
  rnd = rand.New(g.Src).ExpFloat64()
 }
 return g.Mu - g.Beta*math.Log(rnd)
}

// Skewness returns the skewness of the distribution.
func (GumbelRight) Skewness() float64 {
 return 12 * math.Sqrt(6) * apery / (math.Pi * math.Pi * math.Pi)
}

// StdDev returns the standard deviation of the probability distribution.
func (g GumbelRight) StdDev() float64 {
 return (math.Pi / math.Sqrt(6)) * g.Beta
}

// Survival returns the survival function (complementary
 CDF) at x.
func (g GumbelRight) Survival(x float64) float64 {
```

```
 return 1 - g.CDF(x)
}

// Variance returns the variance of the probability distribution.
func (g GumbelRight) Variance() float64 {
 return math.Pi * math.Pi * g.Beta * g.Beta / 6
}
Graph{subgra4{{subgra4{subgra4}}}}
graph{{{{{{{edgN}}edgJ}}}}}
graph{{{{D_{{{D_{D_{D_}}}D_}}D_{{{D_{D_{D_}}}D_}}}}}}
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package testlapack

import (
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/floats"
 "gonum.org/v1/gonum/lapack"
)

type Dlapller interface {
 Dgesvder
 Dlapll(n int, x []float64, incX int, y []float64, incY int) float64
}

func DlapllTest(t *testing.T, impl Dlapller) {
 rnd := rand.New(rand.NewSource(1))
 for i, m := range []int{5, 6, 9, 300, 400, 600} {
  n := 2
  lda := n
  // Allocate m2 matrix A and fill it with random numbers.
  a := make([]float64, m*lda)
  for i := range a {
   a[i] = rnd.NormFloat64()
  }
  // Store a copy of A for later comparison.
  aCopy := make([]float64, len(a))
  copy(aCopy, a)

  // Compute the smallest singular value of A.
  got := impl.Dlapll(m, a[0:], lda, a[1:], lda)

  // Compute singular values of A independently by Dgesvd.
```

```
  s := make([]float64, min(m, n))
  work := make([]float64,
 1)
  impl.Dgesvd(lapack.SVDNone, lapack.SVDNone, m, n, aCopy, lda, s, nil, 1, nil, 1, work, -1)
  work = make([]float64, int(work[0]))
  impl.Dgesvd(lapack.SVDNone, lapack.SVDNone, m, n, aCopy, lda, s, nil, 1, nil, 1, work, len(work))
  // Take the smallest singular value.
  want := s[len(s)-1]

  if !floats.EqualWithinAbsOrRel(got, want, 1e-14, 1e-14) {
   t.Errorf("Case %d: unexpected smallest singular value, got:%f want:%f", i, got, want)
  }
 }
}
*> \brief \b DLAISNAN tests input for NaN by comparing two arguments for inequality.
*
*  =========== DOCUMENTATION ===========
*
* Online html documentation available at
*            http://www.netlib.org/lapack/explore-html/
*
*> \htmlonly
*> Download DLAISNAN + dependencies
*> <a href="http://www.netlib.org/cgi-bin/netlibfiles.tgz?format=tgz&filename=/lapack/lapack_routine/dlaisnan.f">

*> [TGZ]</a>
*> <a href="http://www.netlib.org/cgi-bin/netlibfiles.zip?format=zip&filename=/lapack/lapack_routine/dlaisnan.f">

*> [ZIP]</a>
*> <a href="http://www.netlib.org/cgi-bin/netlibfiles.txt?format=txt&filename=/lapack/lapack_routine/dlaisnan.f">
*> [TXT]</a>
*> \endhtmlonly
*
*  Definition:
*  ===========
*
*       LOGICAL FUNCTION DLAISNAN( DIN1, DIN2 )
*
*       .. Scalar Arguments ..
*       DOUBLE PRECISION   DIN1, DIN2
*       ..
*
*
*> \par Purpose:
*  =============
*>
*> \verbatim
*>
```

```
*> This routine is not for general use.  It exists solely to avoid
*> over-optimization in DISNAN.
*>
*>
 DLAISNAN checks for NaNs by comparing its two arguments for
*> inequality.  NaN is the only floating-point value where NaN != NaN
*> returns .TRUE.  To check for NaNs, pass the same variable as both
*> arguments.
*>
*> A compiler must assume that the two arguments are
*> not the same variable, and the test will not be optimized away.
*> Interprocedural or whole-program optimization may delete this
*> test.  The ISNAN functions will be replaced by the correct
*> Fortran 03 intrinsic once the intrinsic is widely available.
*> \endverbatim
*
*  Arguments:
*  ==========
*
*> \param[in] DIN1
*> \verbatim
*>          DIN1 is DOUBLE PRECISION
*> \endverbatim
*>
*> \param[in] DIN2
*> \verbatim
*>          DIN2 is DOUBLE PRECISION
*>          Two numbers to compare for inequality.
*> \endverbatim
*
*  Authors:
*  ========
*
*> \author Univ. of Tennessee
*> \author Univ. of California Berkeley
*> \author Univ. of Colorado Denver
*> \author NAG Ltd.
*
*> \date September 2012
*
*>
 \ingroup auxOTHERauxiliary
*
*  =====================================================================
      LOGICAL FUNCTION DLAISNAN( DIN1, DIN2 )
*
*  -- LAPACK auxiliary routine (version 3.4.2) --
*  -- LAPACK is a software package provided by Univ. of Tennessee,    --
```

```
*  -- Univ. of California Berkeley, Univ. of Colorado Denver and NAG Ltd..--
*     September 2012
*
*     .. Scalar Arguments ..
      DOUBLE PRECISION   DIN1, DIN2
*     ..
*
*  =====================================================================
*
*  .. Executable Statements ..
      DLAISNAN = (DIN1.NE.DIN2)
      RETURN
      END
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// Package dot implements a parser for Graphviz DOT files.
package dot // import "gonum.org/v1/gonum/graph/formats/dot"
graph{{{SUBB}SUBB}SUBB{{SUBB}}}
Graph{{{subgre{{subgre}}subgro}}}
graph{{SUBGR{SUBGR}SUBGR}SUBGR{SUBGR{SUBGR}SUBGR}SUBGR{SUBGR{}}}
graph{"\\""\\""\""""\\""\\"}
Graph{Sun{Sur{Sur}{Sun{Sur{Sur}{Sur}{Sun{Sur}}}}{Sun{{Sun{Sur{Sur}{Sur}{Sun{Sur}}}}Sur}}}}
graph{{{{{{{graa{{{graa}}}grag}}grai}}}}grai}grag}
graph{Digr}
graph{{"
"#138777878078144567552953958511352539062 5
}}
graph{DIGRA}
graph{STRIR{STRIR}STRIR}
// SPDX-License-Identifier: Unlicense OR MIT

package material

import (
 "image/color"

 "gioui.org/layout"
 "gioui.org/op/paint"
 "gioui.org/text"
 "gioui.org/unit"
 "gioui.org/widget"
)

type Label struct {
 // Face defines the text style.
 Font text.Font
```

```
 // Color is the text color.
 Color color.RGBA
 // Alignment specify the text alignment.
 Alignment text.Alignment
 // MaxLines limits the number of lines. Zero means no limit.
 MaxLines int
 Text     string

 shaper *text.Shaper
}

func (t *Theme) H1(txt string) Label {
 return t.Label(t.TextSize.Scale(96.0/16.0), txt)
}

func (t *Theme) H2(txt string) Label {
 return t.Label(t.TextSize.Scale(60.0/16.0), txt)
}

func (t *Theme) H3(txt string) Label {
 return t.Label(t.TextSize.Scale(48.0/16.0), txt)
}

func (t *Theme) H4(txt string) Label {
 return t.Label(t.TextSize.Scale(34.0/16.0), txt)
}

func (t *Theme) H5(txt string) Label {
 return t.Label(t.TextSize.Scale(24.0/16.0), txt)
}

func (t *Theme) H6(txt string) Label {
 return t.Label(t.TextSize.Scale(20.0/16.0),
 txt)
}

func (t *Theme) Body1(txt string) Label {
 return t.Label(t.TextSize, txt)
}

func (t *Theme) Body2(txt string) Label {
 return t.Label(t.TextSize.Scale(14.0/16.0), txt)
}

func (t *Theme) Caption(txt string) Label {
 return t.Label(t.TextSize.Scale(12.0/16.0), txt)
}
```

```
func (t *Theme) Label(size unit.Value, txt string) Label {
 return Label{
  Text:  txt,
  Color: t.Color.Text,
  Font: text.Font{
   Size: size,
  },
  shaper: t.Shaper,
 }
}

func (l Label) Layout(gtx *layout.Context) {
 paint.ColorOp{Color: l.Color}.Add(gtx.Ops)
 tl := widget.Label{Alignment: l.Alignment, MaxLines: l.MaxLines}
 tl.Layout(gtx, l.shaper, l.Font, l.Text)
}
graph{Subr{Subr}{Subr}}
graph{Gra{}GrA}
graph{""""e""e""n""n""n""n""n""n"}
graph{Graph}
graph sG{{sG}sG{{sG}}}
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// license that can be found in the LICENSE file.

package mathext_test

import (
 "math"
 "testing"

 "gonum.org/v1/gonum/floats"
 "gonum.org/v1/gonum/mathext"
)

var betaTests = []struct {
 p, q float64
 want float64
}{
 {
  p:    1,
  q:    2,
  want: 0.5, // obtained from scipy.special.beta(1,2) (version=0.18.0)
 },
 {
  p:    10,
  q:    20,
  want: 4.9925087406346778e-09, // obtained from scipy.special.beta(10,20) (version=0.18.0)
```

```
},
{
 p:    +0,
 q:    10,
 want: math.Inf(+1),
},
{
 p:    -0,
 q:    10,
 want: math.Inf(+1),
},
{
 p:    0,
 q:    0,
 want: math.NaN(),
},
{
 p:    0,
 q:    math.Inf(-1),
 want: math.NaN(),
},
{
 p:    10,
 q:    math.Inf(-1),
 want: math.NaN(),
},
{
 p:    0,
 q:    math.Inf(+1),
 want: math.NaN(),
},
{
 p:    10,
 q:    math.Inf(+1),
 want: math.NaN(),
},
{
 p:    math.NaN(),
 q:    10,
 want: math.NaN(),
},
{
 p:
   math.NaN(),
 q:    0,
 want: math.NaN(),
},
{
```

```
 p:    -1,
 q:    0,
 want: math.NaN(),
},
{
 p:    -1,
 q:    +1,
 want: math.NaN(),
},
}

func TestBeta(t *testing.T) {
 for i, test := range betaTests {
  v := mathext.Beta(test.p, test.q)
  testOK := func(x float64) bool {
   return floats.EqualWithinAbsOrRel(x, test.want, 1e-15, 1e-15) || (math.IsNaN(test.want) && math.IsNaN(x))
  }
  if !testOK(v) {
   t.Errorf("test #%d: Beta(%v, %v)=%v. want=%v\n",
    i, test.p, test.q, v, test.want,
   )
  }

  u := mathext.Beta(test.q, test.p)
  if !testOK(u) {
   t.Errorf("test #%[1]d: Beta(%[2]v, %[3]v)=%[4]v != Beta(%[3]v, %[2]v)=%[5]v)\n",
    i, test.p, test.q, v, u,
   )
  }

  if math.IsInf(v, +1) || math.IsNaN(v) {
   continue
  }

  vv := mathext.Beta(test.p, test.q+1)
  uu := mathext.Beta(test.p+1, test.q)
  if !floats.EqualWithinAbsOrRel(v, vv+uu, 1e-15, 1e-15) {
   t.Errorf(
    "test #%[1]d: Beta(%[2]v, %[3]v)=%[4]v != Beta(%[2]v+1, %[3]v) + Beta(%[2]v,
%[3]v+1) (=%[5]v + %[6]v = %[7]v)\n",
    i, test.p, test.q, v, uu, vv, uu+vv,
   )
  }

  vbeta2 := beta2(test.p, test.q)
  if !floats.EqualWithinAbsOrRel(v, vbeta2, 1e-15, 1e-15) {
   t.Errorf(
    "test #%[1]d: Beta(%[2]v, %[3]v) != (p)(q) / (p+q) (v=%[4]v u=%[5]v)\n",
```

```
    i, test.p, test.q, v, vbeta2,
   )
  }
 }
}

func beta2(x, y float64) float64 {
 return math.Gamma(x) * math.Gamma(y) / math.Gamma(x+y)
}

func BenchmarkBeta(b *testing.B) {
 for i := 0; i < b.N; i++ {
  _ = mathext.Beta(10, 20)
 }
}

func BenchmarkBeta2(b *testing.B) {
 for i := 0; i < b.N; i++ {
  _ = math.Gamma(10) * math.Gamma(20) / math.Gamma(10+20)
 }
}

func TestLbeta(t *testing.T) {
 for i, test := range betaTests {
  want := math.Log(test.want)
  v := mathext.Lbeta(test.p, test.q)

  testOK := func(x float64) bool {
   return floats.EqualWithinAbsOrRel(x, want, 1e-15, 1e-15) || (math.IsNaN(want) && math.IsNaN(x))
  }
  if !testOK(v) {
   t.Errorf("test #%d: Lbeta(%v, %v)=%v. want=%v\n",
    i, test.p,
 test.q, v, want,
   )
  }

  u := mathext.Lbeta(test.q, test.p)
  if !testOK(u) {
   t.Errorf("test #%[1]d: Lbeta(%[2]v, %[3]v)=%[4]v != Lbeta(%[3]v, %[2]v)=%[5]v)\n",
    i, test.p, test.q, v, u,
   )
  }

  if math.IsInf(v, +1) || math.IsNaN(v) {
   continue
  }
```

```
  vbeta2 := math.Log(beta2(test.p, test.q))
  if !floats.EqualWithinAbsOrRel(v, vbeta2, 1e-15, 1e-15) {
   t.Errorf(
    "test #%[1]d: Lbeta(%[2]v, %[3]v) != Log((p)(q) / (p+q)) (v=%[4]v u=%[5]v)\n",
    i, test.p, test.q, v, vbeta2,
   )
  }
 }
}
graph{strict5}
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package testlapack

import (
 "math"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/floats"
)

type Dlapy2er interface {
 Dlapy2(float64, float64) float64
}

func Dlapy2Test(t *testing.T, impl Dlapy2er) {
 rnd := rand.New(rand.NewSource(1))
 for i := 0; i < 10; i++ {
  x := math.Abs(1e200 * rnd.NormFloat64())
  y := math.Abs(1e200 * rnd.NormFloat64())
  got := impl.Dlapy2(x, y)
  want := math.Hypot(x, y)
  if !floats.EqualWithinRel(got, want, 1e-16) {
   t.Errorf("Dlapy2(%g, %g) = %g, want %g", x, y, got, want)
  }
 }
}
graph{{{DiGra}DiGrar}}
digraph{Eb}
graph{str1{{{{{{{{{{str9}}str1}}}}}}{{{{{{{{{{str9}{{str9}}}str1}}}}}}}}}}
---
name: Bug Report
about: Report a problem with Gonum
```

```
---
<!--
Please make sure your issue title matches the Go convention; a summary
of the problem, prefixed by the primary affected package.
-->
### What are you trying to do?


### What did you do?
<!--
Please include a link to a minimal reproducer here. Preferably this should
be a complete runnable example at https://play.golang.org/.
-->


### What did you expect to happen?


### What actually happened?


### What version of Go and Gonum are you using?
<!--
Paste the output of `go version` and if you are installing Gonum from source, paste
the output of `(cd $(go env GOPATH)/src/gonum.org/v1/gonum && git rev-parse HEAD)`.
If you are using modules, also paste the output of `grep gonum.org/v1/gonum go.sum`,
executed in the root of your dependent module.
-->


### Does this issue reproduce with the current master?
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package quat

// Conj returns the quaternion conjugate of q.
func Conj(q Number) Number {
 return Number{Real: q.Real, Imag: -q.Imag, Jmag: -q.Jmag, Kmag: -q.Kmag}
}

// Inv returns the quaternion inverse of q.
func Inv(q Number) Number {
```

```
 if IsInf(q) {
  return zero
 }
 a := Abs(q)
 return Scale(1/(a*a), Conj(q))
}
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package testblas

import (
 "fmt"
 "math/cmplx"
 "testing"

 "golang.org/x/exp/rand"
 "gonum.org/v1/gonum/blas"
)

type Zhemmer interface {
 Zhemm(side blas.Side, uplo blas.Uplo, m, n int, alpha complex128, a []complex128, lda int, b []complex128, ldb
int, beta complex128, c []complex128, ldc int)
}

func ZhemmTest(t *testing.T, impl Zhemmer) {
 for _, side := range []blas.Side{blas.Left, blas.Right} {
  for _, uplo := range []blas.Uplo{blas.Lower, blas.Upper} {
   name := sideString(side) + "-" + uploString(uplo)
   t.Run(name, func(t *testing.T) {
    for _, m := range []int{0, 1, 2, 3, 4, 5} {
     for _, n := range []int{0, 1, 2, 3, 4, 5} {
      zhemmTest(t, impl, side, uplo, m, n)
     }
    }
   })
  }
 }
}

func zhemmTest(t *testing.T, impl Zhemmer, side blas.Side, uplo blas.Uplo, m, n int) {
 const tol = 1e-13

 rnd :=
 rand.New(rand.NewSource(1))

 nA := m
```

```
if side == blas.Right {
 nA = n
}
for _, lda := range []int{max(1, nA), nA + 2} {
 for _, ldb := range []int{max(1, n), n + 3} {
  for _, ldc := range []int{max(1, n), n + 4} {
   for _, alpha := range []complex128{0, 1, complex(0.7, -0.9)} {
    for _, beta := range []complex128{0, 1, complex(1.3, -1.1)} {
     // Allocate the matrix A and fill it with random numbers.
     a := make([]complex128, nA*lda)
     for i := range a {
      a[i] = rndComplex128(rnd)
     }
     // Create a copy of A for checking that
     // Zhemm does not modify its triangle
     // opposite to uplo.
     aCopy := make([]complex128, len(a))
     copy(aCopy, a)
     // Create a copy of A expanded into a
     // full hermitian matrix for computing
     // the expected result using zmm.
     aHem := make([]complex128, len(a))
     copy(aHem, a)
     if uplo == blas.Upper {
      for i := 0; i < nA; i++ {
       aHem[i*lda+i] = complex(real(aHem[i*lda+i]),
0)
       for j := i + 1; j < nA; j++ {
        aHem[j*lda+i] = cmplx.Conj(aHem[i*lda+j])
       }
      }
     } else {
      for i := 0; i < nA; i++ {
       for j := 0; j < i; j++ {
        aHem[j*lda+i] = cmplx.Conj(aHem[i*lda+j])
       }
       aHem[i*lda+i] = complex(real(aHem[i*lda+i]), 0)
      }
     }

     // Allocate the matrix B and fill it with random numbers.
     b := make([]complex128, m*ldb)
     for i := range b {
      b[i] = rndComplex128(rnd)
     }
     // Create a copy of B for checking that
     // Zhemm does not modify B.
     bCopy := make([]complex128, len(b))
```

```
      copy(bCopy, b)

      // Allocate the matrix C and fill it with random numbers.
      c := make([]complex128, m*ldc)
      for i := range c {
       c[i] = rndComplex128(rnd)
      }
      // Create a copy of C for checking that
      // Zhemm does not modify C.
      cCopy := make([]complex128, len(c))
      copy(cCopy, c)

      // Compute the expected result using
 an internal Zgemm implementation.
      var want []complex128
      if side == blas.Left {
       want = zmm(blas.NoTrans, blas.NoTrans, m, n, m, alpha, aHem, lda, b, ldb, beta, c, ldc)
      } else {
       want = zmm(blas.NoTrans, blas.NoTrans, m, n, n, alpha, b, ldb, aHem, lda, beta, c, ldc)
      }

      // Compute the result using Zhemm.
      impl.Zhemm(side, uplo, m, n, alpha, a, lda, b, ldb, beta, c, ldc)

      prefix := fmt.Sprintf("m=%v,n=%v,lda=%v,ldb=%v,ldc=%v,alpha=%v,beta=%v", m, n, lda, ldb, ldc, alpha, beta)

      if !zsame(a, aCopy) {
       t.Errorf("%v: unexpected modification of A", prefix)
       continue
      }
      if !zsame(b, bCopy) {
       t.Errorf("%v: unexpected modification of B", prefix)
       continue
      }

      if !zEqualApprox(c, want, tol) {
       t.Errorf("%v: unexpected result", prefix)
      }
     }
    }
   }
  }
 }
}
//** github.com/tmthrgd/chacha20@v0.0.0-20180315111422-d64f83450a9a **//

{{Types "BSD-3-Clause"}}
```

```
/* Copyright (C) 1995-1998 Eric Young (eay@cryptsoft.com)
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*
* This package is an SSL implementation written
* by Eric Young (eay@cryptsoft.com).
* The implementation was written so as to conform with Netscapes SSL.
*
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```

```
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* [including the GNU Public Licence.]
*/
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// license that can be found in the LICENSE file.

package testblas

import (
 "math"
 "math/cmplx"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/floats"
)

func TestFlattenBanded(t *testing.T) {
 for i, test := range []struct {
  dense     [][]float64
  ku        int
  kl        int
  condensed [][]float64
 }{
  {
   dense:     [][]float64{{3}},
   ku:        0,
   kl:        0,
   condensed: [][]float64{{3}},
  },
  {
   dense: [][]float64{
    {3, 4, 0},
   },
   ku: 1,
   kl: 0,
   condensed: [][]float64{
```

```
  {3, 4},
 },
},
{
 dense: []float64{
  {3, 4, 0, 0, 0},
 },
 ku: 1,
 kl: 0,
 condensed: []float64{
  {3, 4},
 },
},
{
 dense: []float64{
  {3, 4, 0},
  {0, 5, 8},
  {0, 0, 2},
  {0, 0, 0},
  {0, 0, 0},
 },
 ku: 1,
 kl: 0,
 condensed: []float64{
  {3, 4},
  {5, 8},
  {2,
math.NaN()},
  {math.NaN(), math.NaN()},
  {math.NaN(), math.NaN()},
 },
},
{
 dense: []float64{
  {3, 4, 6},
  {0, 5, 8},
  {0, 0, 2},
  {0, 0, 0},
  {0, 0, 0},
 },
 ku: 2,
 kl: 0,
 condensed: []float64{
  {3, 4, 6},
  {5, 8, math.NaN()},
  {2, math.NaN(), math.NaN()},
  {math.NaN(), math.NaN(), math.NaN()},
  {math.NaN(), math.NaN(), math.NaN()},
```

```
 },
},
{
 dense: [][]float64{
  {3, 4, 6},
  {1, 5, 8},
  {0, 6, 2},
  {0, 0, 7},
  {0, 0, 0},
 },
 ku: 2,
 kl: 1,
 condensed: [][]float64{
  {math.NaN(), 3, 4, 6},
  {1, 5, 8, math.NaN()},
  {6, 2, math.NaN(), math.NaN()},
  {7, math.NaN(), math.NaN(), math.NaN()},
  {math.NaN(), math.NaN(), math.NaN(), math.NaN()},
 },
},
{
 dense: [][]float64{
  {1, 2, 0},
  {3, 4, 5},
  {6, 7, 8},
  {0, 9, 10},
  {0, 0, 11},
 },
 ku: 1,
 kl: 2,
 condensed: [][]float64{
  {math.NaN(), math.NaN(), 1, 2},
  {math.NaN(), 3, 4, 5},
  {6, 7, 8, math.NaN()},
  {9,
10, math.NaN(), math.NaN()},
  {11, math.NaN(), math.NaN(), math.NaN()},
 },
},
{
 dense: [][]float64{
  {1, 0, 0},
  {3, 4, 0},
  {6, 7, 8},
  {0, 9, 10},
  {0, 0, 11},
 },
 ku: 0,
```

```
  kl: 2,
  condensed: [][]float64{
   {math.NaN(), math.NaN(), 1},
   {math.NaN(), 3, 4},
   {6, 7, 8},
   {9, 10, math.NaN()},
   {11, math.NaN(), math.NaN()},
  },
 },
 {
  dense: [][]float64{
   {1, 0, 0, 0, 0},
   {3, 4, 0, 0, 0},
   {1, 3, 5, 0, 0},
  },
  ku: 0,
  kl: 2,
  condensed: [][]float64{
   {math.NaN(), math.NaN(), 1},
   {math.NaN(), 3, 4},
   {1, 3, 5},
  },
 },
} {
 condensed := flattenBanded(test.dense, test.ku, test.kl)
 correct := flatten(test.condensed)
 if !floats.Same(condensed, correct) {
  t.Errorf("Case %v mismatch. Want %v, got %v.", i, correct, condensed)
 }
}
}

func TestFlattenTriangular(t *testing.T) {
 for i, test := range []struct {
  a   [][]float64
  ans []float64
  ul  blas.Uplo
 }{
  {
   a: [][]float64{
    {1,
 2, 3},
    {0, 4, 5},
    {0, 0, 6},
   },
   ul:  blas.Upper,
   ans: []float64{1, 2, 3, 4, 5, 6},
  },
```

```
  {
   a: [][]float64{
    {1, 0, 0},
    {2, 3, 0},
    {4, 5, 6},
   },
   ul:  blas.Lower,
   ans: []float64{1, 2, 3, 4, 5, 6},
  },
 } {
  a := flattenTriangular(test.a, test.ul)
  if !floats.Equal(a, test.ans) {
   t.Errorf("Case %v. Want %v, got %v.", i, test.ans, a)
  }
 }
}

func TestPackUnpackAsHermitian(t *testing.T) {
 rnd := rand.New(rand.NewSource(1))
 for _, uplo := range []blas.Uplo{blas.Upper, blas.Lower} {
  for _, n := range []int{1, 2, 5, 50} {
   for _, lda := range []int{max(1, n), n + 11} {
    a := makeZGeneral(nil, n, n, lda)
    for i := 0; i < n; i++ {
     for j := i; j < n; j++ {
      a[i*lda+j] = complex(rnd.NormFloat64(), rnd.NormFloat64())
      if i != j {
       a[j*lda+i] = cmplx.Conj(a[i*lda+j])
      }
     }
    }
    aCopy := make([]complex128, len(a))
    copy(aCopy, a)

    ap := zPack(uplo, n, a, lda)
    if !zsame(a, aCopy) {
     t.Errorf("Case
 uplo=%v,n=%v,lda=%v: zPack modified a", uplo, n, lda)
    }

    apCopy := make([]complex128, len(ap))
    copy(apCopy, ap)

    art := zUnpackAsHermitian(uplo, n, ap)
    if !zsame(ap, apCopy) {
     t.Errorf("Case uplo=%v,n=%v,lda=%v: zUnpackAsHermitian modified ap", uplo, n, lda)
    }
```

```
    // Copy the round-tripped A into a matrix with the same stride
    // as the original.
    got := makeZGeneral(nil, n, n, lda)
    for i := 0; i < n; i++ {
     copy(got[i*lda:i*lda+n], art[i*n:i*n+n])
    }
    if !zsame(got, a) {
     t.Errorf("Case uplo=%v,n=%v,lda=%v: zPack and zUnpackAsHermitian do not roundtrip", uplo, n, lda)
    }
   }
  }
 }
}
graph{{di{di}di}di}
graph{{{{{{diGrS}}}diGrS}}}
digraph {nod0}
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// +build cblas

package mat

import (
 "gonum.org/v1/gonum/blas/blas64"
 "gonum.org/v1/netlib/blas/netlib"
)

func init() {
 blas64.Use(netlib.Implementation{})
}
graph{no{no{no}{no{no}no{no}}{no}}no}
graph{KSK}
graph{{Dig5}Dig5{{Dig5}Dig5}Dig5}
graph{{{grapJ{grapQ}{grapJ{grapQ}}}}}
graph{GRAPU{GRh{GRAPU{GRAPU}}}}
graph{"\
"""\
"""\
"}
graph{{ED_}ED_}
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// license that can be found in the LICENSE file.

package dot_test
```

```
import (
 "fmt"

 "gonum.org/v1/gonum/graph"
 "gonum.org/v1/gonum/graph/encoding/dot"
 "gonum.org/v1/gonum/graph/simple"
)

type edgeWithPorts struct {
 simple.Edge
 fromPort, toPort string
}

func (e edgeWithPorts) ReversedEdge() graph.Edge {
 e.F, e.T = e.T, e.F
 e.fromPort, e.toPort = e.toPort, e.fromPort
 return e
}

func (e edgeWithPorts) FromPort() (string, string) {
 return e.fromPort, ""
}

func (e edgeWithPorts) ToPort() (string, string) {
 return e.toPort, ""
}

func ExamplePorter() {
 g := simple.NewUndirectedGraph()
 g.SetEdge(edgeWithPorts{
  Edge:     simple.Edge{F: simple.Node(1), T: simple.Node(0)},
  fromPort: "p1",
  toPort:   "p2",
 })

 result, _ := dot.Marshal(g, "", "", "  ")
 fmt.Print(string(result))

 // Output:
 // strict graph {
 //   // Node definitions.
 //   0;
 //   1;
 //
 //
  // Edge definitions.
 //   0:p2 -- 1:p1;
 // }
```

}
graph{{{{EDGD{EDGD}}EDGD{EDGD}}EDGD}}
graph{{diGr}diGr{diGr}diGr{}diGr{}{{diGr}diGr{diGr}diGr{}diGr{}diGr}}
graph{edgc{edgd{}edgd}}
Copyright (C) 2013-2014, Alexis Jacomy, http://sigmajs.org

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 OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.
graph{{{{Digrap_}Digrap_}{Digrap_}Digrap_}Digrap_{Digrap_{Digrap_}Digrap_}Digrap_}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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// license that can be found in the LICENSE file.

package unit

import (
 "errors"
 "fmt"
 "math"
 "unicode/utf8"
)

// Energy represents a quantity of energy in Joules.
type Energy float64

const Joule Energy = 1

// Unit converts the Energy to a *Unit
func (e Energy) Unit() *Unit {
 return New(float64(e), Dimensions{

```
  LengthDim: 2,
  MassDim:   1,
  TimeDim:   -2,
 })
}

// Energy allows Energy to implement a Energyer interface
func (e Energy) Energy() Energy {
 return e
}

// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (e *Energy) From(u Uniter) error {
 if !DimensionsMatch(u, Joule) {
  *e = Energy(math.NaN())
  return errors.New("Dimension mismatch")
 }
 *e = Energy(u.Unit().Value())
 return nil
}

func (e Energy) Format(fs fmt.State,
 c rune) {
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", e, float64(e))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " J"
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(e))
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(e))
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(e))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(e))
  }
  fmt.Fprint(fs, unit)
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g J)", c, e, float64(e))
```

```
 }
}
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package f32

import (
 "math"
 "testing"
)

const (
 msgRes      = "%v: unexpected result Got: %v Expected: %v"
 msgVal      = "%v: unexpected value at %v Got: %v Expected: %v"
 msgGuard    = "%v: guard violated in %s vector %v %v"
 msgReadOnly = "%v: modified read-only %v argument"
 epsilon     = 1e-4
)

var (
 nan = float32(math.NaN())
 inf = float32(math.Inf(1))
)

// within tests for nan-aware equality within epsilon.
func within(x, y float32) bool {
 a, b := float64(x), float64(y)
 return same(x, y) || math.Abs(a-b) <= epsilon
}

func same(x, y float32) bool {
 a, b := float64(x), float64(y)
 return a == b || (math.IsNaN(a) && math.IsNaN(b))
}

func same64(a, b float64) bool {
 return a == b || (math.IsNaN(a) && math.IsNaN(b))
}

// sameStrided returns true if the strided vector x contains elements of the
// dense vector
 ref at indices i*inc, false otherwise.
func sameStrided(ref, x []float32, inc int) bool {
 if inc < 0 {
  inc = -inc
 }
```

```
 for i, v := range ref {
  if !same(x[i*inc], v) {
   return false
  }
 }
 return true
}

func guardVector(v []float32, g float32, gdLn int) (guarded []float32) {
 guarded = make([]float32, len(v)+gdLn*2)
 copy(guarded[gdLn:], v)
 for i := 0; i < gdLn; i++ {
  guarded[i] = g
  guarded[len(guarded)-1-i] = g
 }
 return guarded
}

func isValidGuard(v []float32, g float32, gdLn int) bool {
 for i := 0; i < gdLn; i++ {
  if !same(v[i], g) || !same(v[len(v)-1-i], g) {
   return false
  }
 }
 return true
}

func guardIncVector(vec []float32, gdVal float32, inc, gdLen int) (guarded []float32) {
 if inc < 0 {
  inc = -inc
 }
 inrLen := len(vec) * inc
 guarded = make([]float32, inrLen+gdLen*2)
 for i := range guarded {
  guarded[i] = gdVal
 }
 for i, v := range vec {
  guarded[gdLen+i*inc] = v
 }
 return guarded
}

func checkValidIncGuard(t *testing.T, v []float32, g float32, inc,
 gdLn int) {
 srcLn := len(v) - 2*gdLn
 for i := range v {
  switch {
  case same(v[i], g):
```

```
  // Correct value
 case i < gdLn:
  t.Error("Front guard violated at", i, v[:gdLn])
 case i > gdLn+srcLn:
  t.Error("Back guard violated at", i-gdLn-srcLn, v[gdLn+srcLn:])
 case (i-gdLn)%inc == 0 && (i-gdLn)/inc < len(v):
 default:
  t.Error("Internal guard violated at", i-gdLn, v[gdLn:gdLn+srcLn])
 }
}
}

var ( // Offset sets for testing alignment handling in Unitary assembly functions.
 align2 = newIncSet(0, 1, 2, 3)
 align3 = newIncToSet(0, 1, 2, 3)
)

type incSet struct {
 x, y int
}

// genInc will generate all (x,y) combinations of the input increment set.
func newIncSet(inc ...int) []incSet {
 n := len(inc)
 is := make([]incSet, n*n)
 for x := range inc {
  for y := range inc {
   is[x*n+y] = incSet{inc[x], inc[y]}
  }
 }
 return is
}

type incToSet struct {
 dst, x, y int
}

// genIncTo will generate all (dst,x,y) combinations of the input increment set.
func newIncToSet(inc
 ...int) []incToSet {
 n := len(inc)
 is := make([]incToSet, n*n*n)
 for i, dst := range inc {
  for x := range inc {
   for y := range inc {
    is[i*n*n+x*n+y] = incToSet{dst, inc[x], inc[y]}
   }
  }
```

```
 }
 return is
}
// SPDX-License-Identifier: Unlicense OR MIT

/*
Package paint provides drawing operations for 2D graphics.

The PaintOp operation draws the current material into a rectangular
area, taking the current clip path and transformation into account.

The material is set by either a ColorOp for a constant color, or
ImageOp for an image.
*/
package paint
graph{{S}S{S}S}
graph{{{{{{SubGrapN{{{{{{{{SubGrapN}}SubGrapN}}}}SubGrapN}}}}SubGrapN}}SubGrapT}}
graph{{{{{{{subGn}subGc{{{{subGn}subGc}}}}}}}}}
graph{{Ed}{Ed{Ed}Ed}Ed'''Ed}
graph{{{{grapg}grape}{grape{grapg}}}{{grape{{{grapg}grape}{grape{grapg}}grapg}}}}
graph{Nn{Nn}Na{Nn{Nn}Nn{Nn{Nn}Nn}Nn{Nn}Nn}}
// SPDX-License-Identifier: Unlicense OR MIT

// Package font implements a central font registry.
package font

import (
 "sync"

 "gioui.org/text"
)

var (
 mu          sync.Mutex
 initialized bool
 shaper      = new(text.Shaper)
)

// Default returns a singleton *text.Shaper that contains
// the registered fonts.
func Default() *text.Shaper {
 mu.Lock()
 defer mu.Unlock()
 initialized = true
 return shaper
}

// Register a face. Register panics if Default has been
```

```
// called.
func Register(font text.Font, face text.Face) {
 mu.Lock()
 defer mu.Unlock()
 if initialized {
  panic("Register must be called before Default")
 }
 shaper.Register(font, face)
}
graph{sub{sub}{subr{sub{sub}{sub}}}}
graph{S}
Graph{{SubGr4}{SubGr4}{SubGr4}{SubGr4}{SubGr4}{SubGr4}{SubGr4}{SubGr4}{SubGr4}{SubGr4}}
      DOUBLE PRECISION FUNCTION MYCOS(A)
     DOUBLE PRECISION A
     MYCOS = DCOS(A)
     RETURN
     END
graph{"\\\\\\\\\\\\\\\\\\"}
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// Package r3 provides 3D vectors and boxes and operations on them.
package r3 // import "gonum.org/v1/gonum/spatial/r3"
graph{{{{Stri}}}}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "fmt"
 "testing"
)

func TestEnergyFormat(t *testing.T) {
 for _, test := range []struct {
  value  Energy
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 J"},
  {1.23456789, "%.1v", "1 J"},
  {1.23456789, "%20.1v", "                   1 J"},
  {1.23456789, "%20v", "        1.23456789 J"},
```

```
  {1.23456789, "%1v", "1.23456789 J"},
  {1.23456789, "%#v", "unit.Energy(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Energy=1.23456789 J)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
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package testlapack

import (
 "math"
 "testing"

 "golang.org/x/exp/rand"
)

type Dlaev2er interface {
 Dlaev2(a, b, c float64) (rt1, rt2, cs1, sn1 float64)
}

func Dlaev2Test(t *testing.T, impl Dlaev2er) {
 rnd := rand.New(rand.NewSource(1))
 for trial := 0; trial < 100; trial++ {
  a := rnd.NormFloat64()
  b := rnd.NormFloat64()
  c := rnd.NormFloat64()

  rt1, rt2, cs1, sn1 := impl.Dlaev2(a, b, c)
  tmp := mul2by2([2][2]float64{{cs1, sn1}, {-sn1, cs1}}, [2][2]float64{{a, b}, {b, c}})
  ans := mul2by2(tmp, [2][2]float64{{cs1, -sn1}, {sn1, cs1}})
  if math.Abs(ans[0][0]-rt1) > 1e-14 {
   t.Errorf("Largest eigenvalue mismatch. Returned %v, mul %v", rt1, ans[0][0])
  }
  if math.Abs(ans[1][0]) > 1e-14 || math.Abs(ans[0][1]) > 1e-14 {
   t.Errorf("Non-zero off diagonal. ans[1][0] = %v, ans[0][1] = %v", ans[1][0], ans[0][1])
  }
  if
 math.Abs(ans[1][1]-rt2) > 1e-14 {
   t.Errorf("Smallest eigenvalue mismatch. Returned %v, mul %v", rt2, ans[1][1])
  }
 }
```

```
}

func mul2by2(a, b [2][2]float64) [2][2]float64 {
 var c [2][2]float64
 c[0][0] = a[0][0]*b[0][0] + a[0][1]*b[1][0]
 c[0][1] = a[0][0]*b[0][1] + a[0][1]*b[1][1]
 c[1][0] = a[1][0]*b[0][0] + a[1][1]*b[1][0]
 c[1][1] = a[1][0]*b[0][1] + a[1][1]*b[1][1]
 return c
}
graph{STRIC{STRIC{STRIC}STRIC}}
graph{StriS}
graph{STRICtR}
graph{{SUBGRA_}}
graph{{SUBh{SUBo}{SUBo}SUBo}{SUBo}}
// Code generated by "go generate gonum.org/v1/gonum/unit/constant; DO NOT EDIT.

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package constant

import "gonum.org/v1/gonum/unit"

// AtomicMass is the atomic mass constant (m), one twelfth of the mass of an unbound atom of carbon-12 at rest and
in its ground state.
// The dimension of AtomicMass is kg. The standard uncertainty of the constant is 5e-37 kg.
const AtomicMass = unit.Mass(1.6605390666e-27)
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// Package multi provides a suite of multigraph implementations satisfying
// the gonum/graph interfaces.
//
// All types in multi return the graph.Empty value for empty iterators.
package multi // import "gonum.org/v1/gonum/graph/multi"
graph{{DiGraphg}{DiGraphg}}
graph{Str{}Str{Str}}
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package fd

import (
 "math"
```

```
 "runtime"
 "sync"
)

// Derivative estimates the derivative of the function f at the given location.
// The finite difference formula, the step size, and other options are
// specified by settings. If settings is nil, the first derivative will be
// estimated using the Forward formula and a default step size.
func Derivative(f func(float64) float64, x float64, settings *Settings) float64 {
 // Default settings.
 formula := Forward
 step := formula.Step
 var originValue float64
 var originKnown, concurrent bool

 // Use user settings if provided.
 if settings != nil {
  if !settings.Formula.isZero() {
   formula = settings.Formula
   step = formula.Step
   checkFormula(formula)
  }
  if settings.Step != 0 {
   step = settings.Step
  }
  originKnown = settings.OriginKnown
  originValue = settings.OriginValue
  concurrent
= settings.Concurrent
 }

 var deriv float64
 if !concurrent || runtime.GOMAXPROCS(0) == 1 {
  for _, pt := range formula.Stencil {
   if originKnown && pt.Loc == 0 {
    deriv += pt.Coeff * originValue
    continue
   }
   deriv += pt.Coeff * f(x+step*pt.Loc)
  }
  return deriv / math.Pow(step, float64(formula.Derivative))
 }

 wg := &sync.WaitGroup{}
 mux := &sync.Mutex{}
 for _, pt := range formula.Stencil {
  if originKnown && pt.Loc == 0 {
   mux.Lock()
```

```
  deriv += pt.Coeff * originValue
  mux.Unlock()
  continue
 }
 wg.Add(1)
 go func(pt Point) {
  defer wg.Done()
  fofx := f(x + step*pt.Loc)
  mux.Lock()
  defer mux.Unlock()
  deriv += pt.Coeff * fofx
 }(pt)
}
wg.Wait()
return deriv / math.Pow(step, float64(formula.Derivative))
}
graph{{{{StrO}StrK{StrO}}StrK{StrK}}StrK}
digraph {L L L L[e=e]r=L L->L[l=""]L->L[l=""]L->L[l=""]L->L[l=""]L->L[l=""]L->L[l=""]L->L[l=""]L->L[l=""]L->L[l=""]L->L[l=""]L->L[l=""]L->L[l=""]L->L[l=""]L->L[l=""]L->L[l=""]}
graph{Grac{{{{Grab}}}}Grab}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "errors"
 "fmt"
 "math"
 "unicode/utf8"
)

// AbsorbedRadioactiveDose is a measure of absorbed dose of ionizing radiation in grays.
type AbsorbedRadioactiveDose float64

const Gray AbsorbedRadioactiveDose = 1

// Unit converts the AbsorbedRadioactiveDose to a *Unit
func (a AbsorbedRadioactiveDose) Unit() *Unit {
 return New(float64(a), Dimensions{
  LengthDim: 2,
  TimeDim:   -2,
 })
}
```

```
// AbsorbedRadioactiveDose allows AbsorbedRadioactiveDose to implement a AbsorbedRadioactiveDoseer
interface
func (a AbsorbedRadioactiveDose) AbsorbedRadioactiveDose() AbsorbedRadioactiveDose {
 return a
}

// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (a *AbsorbedRadioactiveDose) From(u
 Uniter) error {
 if !DimensionsMatch(u, Gray) {
  *a = AbsorbedRadioactiveDose(math.NaN())
  return errors.New("Dimension mismatch")
 }
 *a = AbsorbedRadioactiveDose(u.Unit().Value())
 return nil
}

func (a AbsorbedRadioactiveDose) Format(fs fmt.State, c rune) {
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", a, float64(a))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " Gy"
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(a))
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(a))
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(a))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(a))
  }
  fmt.Fprint(fs, unit)
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g Gy)", c, a, float64(a))
 }
}
graph{{{St_{St_}{St_}St_}{St_}St_{St_}{St_}St_}St_}
graph{.5{.5{.5{.5}.5{.5{.5{.5}.5.5}}.5}.5{.5{.5{.5}.5.5}}}}
```

```
graph{{Subg}{Subg{Subg}{Subg}{}}}
graph{"\\\\\\\\\\\\"}
graph{{Digra{{Digra{}Digra}{Digra{}Digra}}Digra}}
graph{{{{{Subgi{Subgc}}Subgi}Subgi{Subgi{Subgc}}Subgi}Subgi{Subgc}{Subgc}}}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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// license that can be found in the LICENSE file.

package unit

import (
 "errors"
 "fmt"
 "math"
 "unicode/utf8"
)

// Mass represents a mass in kilograms.
type Mass float64

const (
 Gram Mass = 1e-3

 Kilogram = Kilo * Gram
)

// Unit converts the Mass to a *Unit
func (m Mass) Unit() *Unit {
 return New(float64(m), Dimensions{
  MassDim: 1,
 })
}

// Mass allows Mass to implement a Masser interface
func (m Mass) Mass() Mass {
 return m
}

// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (m *Mass) From(u Uniter) error {
 if !DimensionsMatch(u, Gram) {
  *m = Mass(math.NaN())
  return errors.New("Dimension mismatch")
 }
 *m = Mass(u.Unit().Value())
```

```
 return nil
}

func (m Mass) Format(fs fmt.State, c rune) {
 switch c {
 case 'v':
  if fs.Flag('#')
  {
   fmt.Fprintf(fs, "%T(%v)", m, float64(m))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " kg"
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(m))
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(m))
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(m))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(m))
  }
  fmt.Fprint(fs, unit)
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g kg)", c, m, float64(m))
 }
}
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package testlapack

import (
 "testing"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/floats"
)

type Dpotf2er interface {
 Dpotf2(ul blas.Uplo, n int, a []float64, lda int) (ok bool)
}
```

```
func Dpotf2Test(t *testing.T, impl Dpotf2er) {
 for _, test := range []struct {
  a   [][]float64
  pos bool
  U   [][]float64
 }{
  {
   a: [][]float64{
    {23, 37, 34, 32},
    {108, 71, 48, 48},
    {109, 109, 67, 58},
    {106, 107, 106, 63},
   },
   pos: true,
   U: [][]float64{
    {4.795831523312719, 7.715033320111766, 7.089490077940543, 6.672461249826393},
    {0, 3.387958215439679, -1.976308959006481, -1.026654004678691},
    {0, 0, 3.582364210034111, 2.419258947036024},
    {0, 0, 0, 3.401680257083044},
   },
  },
  {
   a: [][]float64{
    {8, 2},
    {2, 4},
   },
   pos: true,
   U: [][]float64{
    {2.82842712474619, 0.707106781186547},
    {0,
 1.870828693386971},
   },
  },
 } {
  testDpotf2(t, impl, test.pos, test.a, test.U, len(test.a[0]), blas.Upper)
  testDpotf2(t, impl, test.pos, test.a, test.U, len(test.a[0])+5, blas.Upper)
  aT := transpose(test.a)
  L := transpose(test.U)
  testDpotf2(t, impl, test.pos, aT, L, len(test.a[0]), blas.Lower)
  testDpotf2(t, impl, test.pos, aT, L, len(test.a[0])+5, blas.Lower)
 }
}

func testDpotf2(t *testing.T, impl Dpotf2er, testPos bool, a, ans [][]float64, stride int, ul blas.Uplo) {
 aFlat := flattenTri(a, stride, ul)
 ansFlat := flattenTri(ans, stride, ul)
 pos := impl.Dpotf2(ul, len(a[0]), aFlat, stride)
 if pos != testPos {
```

```
 t.Errorf("Positive definite mismatch: Want %v, Got %v", testPos, pos)
 return
 }
 if testPos && !floats.EqualApprox(ansFlat, aFlat, 1e-14) {
 t.Errorf("Result mismatch: Want %v, Got  %v", ansFlat, aFlat)
 }
}

// flattenTri  with a certain stride. stride must be >= dimension. Puts repeatable
// nonce values in non-accessed places
func flattenTri(a
 [][]float64, stride int, ul blas.Uplo) []float64 {
 m := len(a)
 n := len(a[0])
 if stride < n {
  panic("bad stride")
 }
 upper := ul == blas.Upper
 v := make([]float64, m*stride)
 count := 1000.0
 for i := 0; i < m; i++ {
  for j := 0; j < stride; j++ {
   if j >= n || (upper && j < i) || (!upper && j > i) {
    // not accessed, so give a unique crazy number
    v[i*stride+j] = count
    count++
    continue
   }
   v[i*stride+j] = a[i][j]
  }
 }
 return v
}

func transpose(a [][]float64) [][]float64 {
 m := len(a)
 n := len(a[0])
 if m != n {
  panic("not square")
 }
 aNew := make([][]float64, m)
 for i := 0; i < m; i++ {
  aNew[i] = make([]float64, n)
 }
 for i := 0; i < m; i++ {
  if len(a[i]) != n {
   panic("bad n size")
  }
```

```
  for j := 0; j < n; j++ {
   aNew[j][i] = a[i][j]
  }
 }
 return aNew
}
graph{{sub_}{sub_}{sub_{sub_}}}
digraph{nod_}
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package mat

import "testing"

func TestCDenseNewAtSet(t *testing.T) {
 for cas, test := range []struct {
  a          []complex128
  rows, cols int
 }{
  {
   a: []complex128{0, 0, 0,
    0, 0, 0,
    0, 0, 0},
   rows: 3,
   cols: 3,
  },
 } {
  aCopy := make([]complex128, len(test.a))
  copy(aCopy, test.a)
  mZero := NewCDense(test.rows, test.cols, nil)
  rows, cols := mZero.Dims()
  if rows != test.rows {
   t.Errorf("unexpected number of rows for test %d: got: %d want: %d", cas, rows, test.rows)
  }
  if cols != test.cols {
   t.Errorf("unexpected number of cols for test %d: got: %d want: %d", cas, cols, test.cols)
  }
  m := NewCDense(test.rows, test.cols, aCopy)
  for i := 0; i < test.rows; i++ {
   for j := 0; j < test.cols; j++ {
    v := m.At(i, j)
    idx := i*test.rows + j
    if v != test.a[idx] {
     t.Errorf("unexpected
 get value for test %d at i=%d, j=%d: got: %v, want: %v", cas, i, j, v, test.a[idx])
    }
```

```
    add := complex(float64(i+1), float64(j+1))
    m.Set(i, j, v+add)
    if m.At(i, j) != test.a[idx]+add {
     t.Errorf("unexpected set value for test %d at i=%d, j=%d: got: %v, want: %v", cas, i, j, v, test.a[idx]+add)
    }
   }
  }
 }
}
graph{{{{diGrS{{diGrS}}}diGrS{{{diGrS}}}diGrS}}}
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package gonum

import "gonum.org/v1/gonum/lapack"

// Dorgbr generates one of the matrices Q or P computed by Dgebrd
// computed from the decomposition Dgebrd. See Dgebd2 for the description of
// Q and P.
//
// If vect == lapack.GenerateQ, then a is assumed to have been an mk matrix and
// Q is of order m. If m >= k, then Dorgbr returns the first n columns of Q
// where m >= n >= k. If m < k, then Dorgbr returns Q as an mm matrix.
//
// If vect == lapack.GeneratePT, then A is assumed to have been a kn matrix, and
// P is of order n. If k < n, then Dorgbr returns the first m rows of P,
// where n >= m >= k. If k >= n, then Dorgbr returns P as an nn matrix.
//
// Dorgbr is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dorgbr(vect lapack.GenOrtho, m, n, k int, a []float64, lda int, tau, work
 []float64, lwork int) {
 wantq := vect == lapack.GenerateQ
 mn := min(m, n)
 switch {
 case vect != lapack.GenerateQ && vect != lapack.GeneratePT:
  panic(badGenOrtho)
 case m < 0:
  panic(mLT0)
 case n < 0:
  panic(nLT0)
 case k < 0:
  panic(kLT0)
 case wantq && n > m:
  panic(nGTM)
 case wantq && n < min(m, k):
  panic("lapack: n < min(m,k)")
```

```
case !wantq && m > n:
 panic(mGTN)
case !wantq && m < min(n, k):
 panic("lapack: m < min(n,k)")
case lda < max(1, n) && lwork != -1:
 // Normally, we follow the reference and require the leading
 // dimension to be always valid, even in case of workspace
 // queries. However, if a caller provided a placeholder value
 // for lda (and a) when doing a workspace query that didn't
 // fulfill the condition here, it would cause a panic. This is
 // exactly what Dgesvd does.
 panic(badLdA)
case lwork < max(1, mn) && lwork != -1:
 panic(badLWork)
case len(work) < max(1, lwork):
 panic(shortWork)
}

// Quick return if possible.
work[0]
= 1
if m == 0 || n == 0 {
 return
}

if wantq {
 if m >= k {
  impl.Dorgqr(m, n, k, a, lda, tau, work, -1)
 } else if m > 1 {
  impl.Dorgqr(m-1, m-1, m-1, a[lda+1:], lda, tau, work, -1)
 }
} else {
 if k < n {
  impl.Dorglq(m, n, k, a, lda, tau, work, -1)
 } else if n > 1 {
  impl.Dorglq(n-1, n-1, n-1, a[lda+1:], lda, tau, work, -1)
 }
}
lworkopt := int(work[0])
lworkopt = max(lworkopt, mn)
if lwork == -1 {
 work[0] = float64(lworkopt)
 return
}

switch {
case len(a) < (m-1)*lda+n:
 panic(shortA)
```

```
case wantq && len(tau) < min(m, k):
 panic(shortTau)
case !wantq && len(tau) < min(n, k):
 panic(shortTau)
}

if wantq {
 // Form Q, determined by a call to Dgebrd to reduce an mk matrix.
 if m >= k {
  impl.Dorgqr(m, n, k, a, lda, tau, work, lwork)
 } else {
  // Shift the vectors which define the elementary reflectors one
  // column to the right, and set the first row and column of Q to
  // those of the unit matrix.
  for j := m - 1; j >= 1; j-- {
   a[j]
= 0
   for i := j + 1; i < m; i++ {
    a[i*lda+j] = a[i*lda+j-1]
   }
  }
  a[0] = 1
  for i := 1; i < m; i++ {
   a[i*lda] = 0
  }
  if m > 1 {
   // Form Q[1:m-1, 1:m-1]
   impl.Dorgqr(m-1, m-1, m-1, a[lda+1:], lda, tau, work, lwork)
  }
 }
} else {
 // Form P, determined by a call to Dgebrd to reduce a kn matrix.
 if k < n {
  impl.Dorglq(m, n, k, a, lda, tau, work, lwork)
 } else {
  // Shift the vectors which define the elementary reflectors one
  // row downward, and set the first row and column of P to
  // those of the unit matrix.
  a[0] = 1
  for i := 1; i < n; i++ {
   a[i*lda] = 0
  }
  for j := 1; j < n; j++ {
   for i := j - 1; i >= 1; i-- {
    a[i*lda+j] = a[(i-1)*lda+j]
   }
   a[j] = 0
  }
```

```
  if n > 1 {
   impl.Dorglq(n-1, n-1, n-1, a[lda+1:], lda, tau, work, lwork)
  }
 }
}
 work[0] = float64(lworkopt)
}
graph{diGrap7}
graph{{{{subGz}}subGs}}
      SUBROUTINE ZBINU(ZR, ZI, FNU, KODE, N, CYR, CYI, NZ, RL, FNUL,
     * TOL, ELIM, ALIM)
C***BEGIN PROLOGUE  ZBINU
C***REFER TO  ZBESH,ZBESI,ZBESJ,ZBESK,ZAIRY,ZBIRY
C
C     ZBINU COMPUTES THE I FUNCTION IN THE RIGHT HALF Z PLANE
C
C***ROUTINES CALLED  ZABS,ZASYI,ZBUNI,ZMLRI,ZSERI,ZUOIK,ZWRSK
C***END PROLOGUE  ZBINU
      DOUBLE PRECISION ALIM, AZ, CWI, CWR, CYI, CYR, DFNU, ELIM, FNU,
     * FNUL, RL, TOL, ZEROI, ZEROR, ZI, ZR, ZABS
      INTEGER I, INW, KODE, N, NLAST, NN, NUI, NW, NZ
      DIMENSION CYR(N), CYI(N), CWR(2), CWI(2)
      DATA ZEROR,ZEROI / 0.0D0, 0.0D0 /
C
      NZ = 0
      AZ = ZABS(CMPLX(ZR,ZI,kind=KIND(1.0D0)))
      NN = N
      DFNU = FNU + DBLE(FLOAT(N-1))
      IF (AZ.LE.2.0D0) GO TO 10
      IF (AZ*AZ*0.25D0.GT.DFNU+1.0D0) GO TO 20
   10 CONTINUE
C-----------------------------------------------------------------------
C     POWER SERIES
C-----------------------------------------------------------------------
      CALL ZSERI(ZR, ZI, FNU, KODE, NN, CYR, CYI,
 NW, TOL, ELIM, ALIM)
      INW = IABS(NW)
      NZ = NZ + INW
      NN = NN - INW
      IF (NN.EQ.0) RETURN
      IF (NW.GE.0) GO TO 120
      DFNU = FNU + DBLE(FLOAT(NN-1))
   20 CONTINUE
      IF (AZ.LT.RL) GO TO 40
      IF (DFNU.LE.1.0D0) GO TO 30
      IF (AZ+AZ.LT.DFNU*DFNU) GO TO 50
C-----------------------------------------------------------------------
C     ASYMPTOTIC EXPANSION FOR LARGE Z
```

```
C-----------------------------------------------------------------------
 30 CONTINUE
    CALL ZASYI(ZR, ZI, FNU, KODE, NN, CYR, CYI, NW, RL, TOL, ELIM,
   * ALIM)
    IF (NW.LT.0) GO TO 130
    GO TO 120
 40 CONTINUE
    IF (DFNU.LE.1.0D0) GO TO 70
 50 CONTINUE
C-----------------------------------------------------------------------
C     OVERFLOW AND UNDERFLOW TEST ON I SEQUENCE FOR MILLER ALGORITHM
C-----------------------------------------------------------------------
    CALL ZUOIK(ZR, ZI, FNU, KODE, 1, NN, CYR, CYI, NW, TOL, ELIM,
   * ALIM)
    IF (NW.LT.0) GO
 TO 130
    NZ = NZ + NW
    NN = NN - NW
    IF (NN.EQ.0) RETURN
    DFNU = FNU+DBLE(FLOAT(NN-1))
    IF (DFNU.GT.FNUL) GO TO 110
    IF (AZ.GT.FNUL) GO TO 110
 60 CONTINUE
    IF (AZ.GT.RL) GO TO 80
 70 CONTINUE
C-----------------------------------------------------------------------
C     MILLER ALGORITHM NORMALIZED BY THE SERIES
C-----------------------------------------------------------------------
    CALL ZMLRI(ZR, ZI, FNU, KODE, NN, CYR, CYI, NW, TOL)
    IF(NW.LT.0) GO TO 130
    GO TO 120
 80 CONTINUE
C-----------------------------------------------------------------------
C     MILLER ALGORITHM NORMALIZED BY THE WRONSKIAN
C-----------------------------------------------------------------------
C-----------------------------------------------------------------------
C     OVERFLOW TEST ON K FUNCTIONS USED IN WRONSKIAN
C-----------------------------------------------------------------------
    CALL ZUOIK(ZR, ZI, FNU, KODE, 2, 2, CWR, CWI, NW, TOL,
 ELIM,
   * ALIM)
    IF (NW.GE.0) GO TO 100
    NZ = NN
    DO 90 I=1,NN
      CYR(I) = ZEROR
      CYI(I) = ZEROI
 90 CONTINUE
    RETURN
```

```
 100 CONTINUE
     IF (NW.GT.0) GO TO 130
     CALL ZWRSK(ZR, ZI, FNU, KODE, NN, CYR, CYI, NW, CWR, CWI, TOL,
    * ELIM, ALIM)
     IF (NW.LT.0) GO TO 130
     GO TO 120
 110 CONTINUE
C-----------------------------------------------------------------------
C     INCREMENT FNU+NN-1 UP TO FNUL, COMPUTE AND RECUR BACKWARD
C-----------------------------------------------------------------------
     NUI = INT(SNGL(FNUL-DFNU)) + 1
     NUI = MAX0(NUI,0)
     CALL ZBUNI(ZR, ZI, FNU, KODE, NN, CYR, CYI, NW, NUI, NLAST, FNUL,
    * TOL, ELIM, ALIM)
     IF (NW.LT.0) GO TO 130
     NZ = NZ + NW
     IF (NLAST.EQ.0) GO TO 120
     NN = NLAST
     GO TO 60
 120 CONTINUE
     RETURN
 130 CONTINUE
     NZ = -1
     IF(NW.EQ.(-2)) NZ=-2
     RETURN
     END
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package gonum

import (
 "math"
)

// Beta returns the value of the complete beta function B(a, b). It is defined as
//  (a)(b) / (a+b)
// Special cases are:
//  B(a,b) returns NaN if a or b is Inf
//  B(a,b) returns NaN if a and b are 0
//  B(a,b) returns NaN if a or b is NaN
//  B(a,b) returns NaN if a or b is < 0
//  B(a,b) returns +Inf if a xor b is 0.
//
// See http://mathworld.wolfram.com/BetaFunction.html for more detailed information.
func Beta(a, b float64) float64 {
 return math.Exp(Lbeta(a, b))
```

```
}

// Lbeta returns the natural logarithm of the complete beta function B(a,b).
// Lbeta is defined as:
//  Ln((a)(b)/(a+b))
// Special cases are:
//  Lbeta(a,b) returns NaN if a or b is Inf
//  Lbeta(a,b) returns NaN if a and b are 0
//  Lbeta(a,b) returns NaN if a or b is NaN
//  Lbeta(a,b) returns NaN if a or b is < 0
//
 Lbeta(a,b) returns +Inf if a xor b is 0.
func Lbeta(a, b float64) float64 {
 switch {
 case math.IsInf(a, +1) || math.IsInf(b, +1):
  return math.NaN()
 case a == 0 && b == 0:
  return math.NaN()
 case a < 0 || b < 0:
  return math.NaN()
 case math.IsNaN(a) || math.IsNaN(b):
  return math.NaN()
 case a == 0 || b == 0:
  return math.Inf(+1)
 }

 la, _ := math.Lgamma(a)
 lb, _ := math.Lgamma(b)
 lab, _ := math.Lgamma(a + b)
 return la + lb - lab
}
graph{{dig7{{dig0{{{dig0}{dig0}dig0}}dig0}}}}
graph{{ED_}ED_{ED_{{ED_}ED_{ED_{{ED_}ED_}}ED_}}}
graph{{{{{{{{{str{}str{{str}}}}str{{str}}}}}str}}}}
graph{STRU}
graph{{{{digra4}{digra4}}}}
graph{{SUBGRA{SUBGRA}}}
digraph{e[l=<<TAE B="0">
 <TR>
    <TD HGErg="9023" w=="234230">a</TD>
    <TD>cfdswr</TD>
 </"234230">a</TD>
    <TD>cfdswr</TD>
 </TR>
   </TAE>>l=""]n->g[l=""]g->l[l=""]}
graph{{{{st}}}}
graph{STRI{}STRI}
```

```
graph{e[e=""l=""e=""h=""t=""r=""r=""]/**/""--""[e=0]""--""[e=0]""--""[e=0]""--""[e=0]""--""[e=0]}
graph{{GR1}GR1}
graph{STRICU{STRIC{STRICU{STRICU}}}}
graph{{DiGrap}{{{{{DiGrap}}}}DiGrap}{{{{{DiGrap}DiGrap}DiGrap}{{{DiGrap}DiGrap}DiGrap}{{{}DiGra
p}DiGrap}{{{DiGrap}DiGrap}DiGrap}{{""DiGrap}}}DiGrap}DiGrap}
graph{{{{g{g}g{g}{g}{g}}}}}
/**/graph""{e[e=""l=""e=""h=""t=""r=""][r=""]/* "327890" -- "3298-547" -- "3" -- "-0";
 /* .rege ar =aw 89723h  */
 "" -- "" [we = 3.0];
 "" -- "" [we = 3.0];
 "" -- "" [we = 3.0];
 "" -- "" [we = 3.0];
 "" -- "" [we = 3.0];
}
graph{Digx}
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// +build !noasm,!appengine,!safe

package f32

// AxpyUnitary is
//  for i, v := range x {
//   y[i] += alpha * v
//  }
func AxpyUnitary(alpha float32, x, y []float32)

// AxpyUnitaryTo is
//  for i, v := range x {
//   dst[i] = alpha*v + y[i]
//  }
func AxpyUnitaryTo(dst []float32, alpha float32, x, y []float32)

// AxpyInc is
//  for i := 0; i < int(n); i++ {
//   y[iy] += alpha * x[ix]
//   ix += incX
//   iy += incY
//  }
func AxpyInc(alpha float32, x, y []float32, n, incX, incY, ix, iy uintptr)

// AxpyIncTo is
//  for i := 0; i < int(n); i++ {
//   dst[idst] = alpha*x[ix] + y[iy]
//   ix += incX
//   iy += incY
```

```
//   idst += incDst
//  }
func AxpyIncTo(dst []float32, incDst, idst uintptr, alpha float32, x, y []float32, n, incX, incY, ix, iy uintptr)

// DdotUnitary is
//  for i, v := range x {
//   sum += float64(y[i]) *
 float64(v)
//  }
//  return
func DdotUnitary(x, y []float32) (sum float64)

// DdotInc is
//  for i := 0; i < int(n); i++ {
//   sum += float64(y[iy]) * float64(x[ix])
//   ix += incX
//   iy += incY
//  }
//  return
func DdotInc(x, y []float32, n, incX, incY, ix, iy uintptr) (sum float64)

// DotUnitary is
//  for i, v := range x {
//   sum += y[i] * v
//  }
//  return sum
func DotUnitary(x, y []float32) (sum float32)

// DotInc is
//  for i := 0; i < int(n); i++ {
//   sum += y[iy] * x[ix]
//   ix += incX
//   iy += incY
//  }
//  return sum
func DotInc(x, y []float32, n, incX, incY, ix, iy uintptr) (sum float32)
graph{{SUBGRAPR{{SUBGRAPR}}}}
graph{{ED_}ED_{ED_{ED_}}}
graph{{{{{{{{{St}St}}}}}St}}}}
graph{{STR}STR{STR}STR{STR}}
```

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```
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package testlapack

import (
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
 "gonum.org/v1/gonum/lapack"
)

type Dggsvp3er interface {
 Dlanger
 Dggsvp3(jobU, jobV, jobQ lapack.GSVDJob, m, p, n int, a []float64, lda int, b []float64, ldb int, tola, tolb float64, u
[]float64, ldu int, v []float64, ldv int, q []float64, ldq int, iwork []int, tau, work []float64, lwork int) (k, l int)
}

func Dggsvp3Test(t *testing.T, impl Dggsvp3er) {
 rnd := rand.New(rand.NewSource(1))
 for cas, test := range []struct {
  m, p, n, lda, ldb, ldu, ldv, ldq int
 }{
  {m: 3, p: 3, n: 5, lda: 0, ldb: 0, ldu: 0, ldv: 0, ldq: 0},
  {m: 5, p: 5, n: 5, lda: 0, ldb: 0, ldu: 0, ldv: 0, ldq: 0},
  {m: 5, p: 5, n: 5, lda: 0, ldb: 0, ldu: 0, ldv: 0, ldq: 0},
  {m: 5, p: 5, n: 10, lda: 0, ldb: 0, ldu: 0, ldv:
```

```
0, ldq: 0},
 {m: 5, p: 5, n: 10, lda: 0, ldb: 0, ldu: 0, ldv: 0, ldq: 0},
 {m: 5, p: 5, n: 10, lda: 0, ldb: 0, ldu: 0, ldv: 0, ldq: 0},
 {m: 10, p: 5, n: 5, lda: 0, ldb: 0, ldu: 0, ldv: 0, ldq: 0},
 {m: 10, p: 5, n: 5, lda: 0, ldb: 0, ldu: 0, ldv: 0, ldq: 0},
 {m: 10, p: 10, n: 10, lda: 0, ldb: 0, ldu: 0, ldv: 0, ldq: 0},
 {m: 10, p: 10, n: 10, lda: 0, ldb: 0, ldu: 0, ldv: 0, ldq: 0},
 {m: 5, p: 5, n: 5, lda: 10, ldb: 10, ldu: 10, ldv: 10, ldq: 10},
 {m: 5, p: 5, n: 5, lda: 10, ldb: 10, ldu: 10, ldv: 10, ldq: 10},
 {m: 5, p: 5, n: 10, lda: 20, ldb: 20, ldu: 10, ldv: 10, ldq: 20},
 {m: 5, p: 5, n: 10, lda: 20, ldb: 20, ldu: 10, ldv: 10, ldq: 20},
 {m: 5, p: 5, n: 10, lda: 20, ldb: 20, ldu: 10, ldv: 10, ldq: 20},
 {m: 10, p: 5, n: 5, lda: 10, ldb: 10, ldu: 20, ldv: 10, ldq: 10},
 {m: 10, p: 5, n: 5, lda: 10, ldb: 10, ldu: 20, ldv: 10, ldq: 10},
 {m: 10, p: 10, n: 10, lda: 20, ldb: 20, ldu: 20, ldv: 20, ldq: 20},
 {m: 10, p: 10, n: 10, lda: 20, ldb: 20, ldu: 20, ldv: 20,
ldq: 20},
} {
 m := test.m
 p := test.p
 n := test.n
 lda := test.lda
 if lda == 0 {
  lda = n
 }
 ldb := test.ldb
 if ldb == 0 {
  ldb = n
 }
 ldu := test.ldu
 if ldu == 0 {
  ldu = m
 }
 ldv := test.ldv
 if ldv == 0 {
  ldv = p
 }
 ldq := test.ldq
 if ldq == 0 {
  ldq = n
 }

 a := randomGeneral(m, n, lda, rnd)
 aCopy := cloneGeneral(a)
 b := randomGeneral(p, n, ldb, rnd)
 bCopy := cloneGeneral(b)

 tola := float64(max(m, n)) * impl.Dlange(lapack.Frobenius, m, n, a.Data, a.Stride, nil) * dlamchE
```

```
tolb := float64(max(p, n)) * impl.Dlange(lapack.Frobenius, p, n, b.Data, b.Stride, nil) * dlamchE

u := nanGeneral(m, m, ldu)
v := nanGeneral(p, p, ldv)
q := nanGeneral(n, n, ldq)

iwork := make([]int, n)
tau := make([]float64, n)

work := []float64{0}
impl.Dggsvp3(lapack.GSVDU, lapack.GSVDV, lapack.GSVDQ,
 m, p, n,
 a.Data, a.Stride,
 b.Data, b.Stride,
 tola, tolb,
 u.Data, u.Stride,
 v.Data, v.Stride,
 q.Data, q.Stride,
 iwork, tau,
 work,
-1)

lwork := int(work[0])
work = make([]float64, lwork)

k, l := impl.Dggsvp3(lapack.GSVDU, lapack.GSVDV, lapack.GSVDQ,
 m, p, n,
 a.Data, a.Stride,
 b.Data, b.Stride,
 tola, tolb,
 u.Data, u.Stride,
 v.Data, v.Stride,
 q.Data, q.Stride,
 iwork, tau,
 work, lwork)

// Check orthogonality of U, V and Q.
if !isOrthogonal(u) {
 t.Errorf("test %d: U is not orthogonal\n%+v", cas, u)
 }
if !isOrthogonal(v) {
 t.Errorf("test %d: V is not orthogonal\n%+v", cas, v)
 }
if !isOrthogonal(q) {
 t.Errorf("test %d: Q is not orthogonal\n%+v", cas, q)
 }

zeroA, zeroB := constructGSVPresults(n, p, m, k, l, a, b)
```

```
  // Check U*A*Q = [ 0 RA ].
  uTmp := nanGeneral(m, n, n)
  blas64.Gemm(blas.Trans, blas.NoTrans, 1, u, aCopy, 0, uTmp)
  uAns := nanGeneral(m, n, n)
  blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, uTmp, q, 0, uAns)

  if !equalApproxGeneral(uAns, zeroA, 1e-14) {
   t.Errorf("test %d: U*A*Q != [ 0 RA ]\nU*A*Q:\n%+v\n[ 0 RA ]:\n%+v",
    cas,
 uAns, zeroA)
  }

  // Check V*B*Q = [ 0 RB ].
  vTmp := nanGeneral(p, n, n)
  blas64.Gemm(blas.Trans, blas.NoTrans, 1, v, bCopy, 0, vTmp)
  vAns := nanGeneral(p, n, n)
  blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, vTmp, q, 0, vAns)

  if !equalApproxGeneral(vAns, zeroB, 1e-14) {
   t.Errorf("test %d: V*B*Q != [ 0 RB ]\nV*B*Q:\n%+v\n[ 0 RB ]:\n%+v",
    cas, vAns, zeroB)
  }
 }
}
graph{{SubGra_}{SubGra_}{SubGra_}{SubGra_}}
graph{edg{edd{edg{edg}ed{edg}edg}edg{edg}edg{edg}ed{edg}edg}edg{edg}edg}
graph{{diGrar}{diGrar}diGrar}
graph{ea{{ea{ea""ea}}ea}}
graph{Str5}
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package gonum
digraph{A:e->B:w C:o->D:se E:_->G:n H:e I:s J:w K:nw L:c}
graph{Subr}
graph{{s_}{s_{{{{s_}{s_{{{s_}{s_}}}}s_}{s_}}}}}
build: off

clone_folder: c:\gopath\src\gonum.org\v1\gonum

cache:
 - '%LocalAppData%\go-build'

branches:
 only:
   - master
```

```
environment:
 # Do not move these lines; they are referred to by README.md.
 # Versions of go that are explicitly supported by gonum.
 matrix:
   - GOROOT: 'c:\go112'
   #- GOROOT: 'c:\go113'
 GOPATH: c:\gopath
 GOTOOLDIR: '%GOROOT%\pkg\tool\windows_amd64'
 PATH: '%GOPATH%\bin;%GOROOT%\bin;%PATH%'

build_script:
 - "%GOROOT%\\bin\\go version"
 - "%GOROOT%\\bin\\go get -v -t ./..."

test_script:
 - "%GOROOT%\\bin\\go test ./..."
graph{GRA_}
graph{{Dl{{Ds{Ds}}Ds{{{Dl{{Ds{Ds}}Ds{Ds}}}}Ds}}}}
graph{{Su}{Su}{Su}Su{Su}{Su}}
graph{{{Ed}}}
graph{{Subg}{Subg}{Subg}}
Graph{{subgr_}subgr_}
graph{SUBGRAV{{SUBGRAU}}SUBGRAV}
graph{{{{

}}

}}
Graph{{DIGRA}{DIGRA}{DIGRA}{DIGRA}{DIGRA}{DIGRA}{DIGRA}{DIGRA}{DIGRA}}
graph{STRIC0}
graph{{d3{d9}}}
graph{"\]"{"\a"}}
Graph{{{subgra4{{subgra4{subgra4}}}}{subgra4{subgra4{{subgra4{subgra4}}}}}}}
graph{{DiGA}}
graph{bFQWDZTE}
graph{{Stra-9Stra}Str{Stra-9Stra}Stra-9Stra-9Stra}
graph{{subGs{{subGz}}subGs}}
diGraph{}
graph{{dn{dn do}do}dn{dn do}}
graph{<<NNNNNN>>}
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package stat

import (
```

```
 "math"

 "gonum.org/v1/gonum/floats"
 "gonum.org/v1/gonum/mat"
)

// CovarianceMatrix calculates the covariance matrix (also known as the
// variance-covariance matrix) calculated from a matrix of data, x, using
// a two-pass algorithm. The result is stored in dst.
//
// If weights is not nil the weighted covariance of x is calculated. weights
// must have length equal to the number of rows in input data matrix and
// must not contain negative elements.
// The dst matrix must either be empty or have the same number of
// columns as the input data matrix.
func CovarianceMatrix(dst *mat.SymDense, x mat.Matrix, weights []float64) {
 // This is the matrix version of the two-pass algorithm. It doesn't use the
 // additional floating point error correction that the Covariance function uses
 // to reduce the impact
 of rounding during centering.

 r, c := x.Dims()

 if dst.IsEmpty() {
  *dst = *(dst.GrowSym(c).(*mat.SymDense))
 } else if n := dst.Symmetric(); n != c {
  panic(mat.ErrShape)
 }

 var xt mat.Dense
 xt.CloneFrom(x.T())
 // Subtract the mean of each of the columns.
 for i := 0; i < c; i++ {
  v := xt.RawRowView(i)
  // This will panic with ErrShape if len(weights) != len(v), so
  // we don't have to check the size later.
  mean := Mean(v, weights)
  floats.AddConst(-mean, v)
 }

 if weights == nil {
  // Calculate the normalization factor
  // scaled by the sample size.
  dst.SymOuterK(1/(float64(r)-1), &xt)
  return
 }

 // Multiply by the sqrt of the weights, so that multiplication is symmetric.
```

```
 sqrtwts := make([]float64, r)
 for i, w := range weights {
  if w < 0 {
   panic("stat: negative covariance matrix weights")
  }
  sqrtwts[i] = math.Sqrt(w)
 }
 // Weight the rows.
 for i := 0; i < c; i++ {
  v := xt.RawRowView(i)
  floats.Mul(v, sqrtwts)
 }

 // Calculate the normalization
 factor
 // scaled by the weighted sample size.
 dst.SymOuterK(1/(floats.Sum(weights)-1), &xt)
}

// CorrelationMatrix returns the correlation matrix calculated from a matrix
// of data, x, using a two-pass algorithm. The result is stored in dst.
//
// If weights is not nil the weighted correlation of x is calculated. weights
// must have length equal to the number of rows in input data matrix and
// must not contain negative elements.
// The dst matrix must either be empty or have the same number of
// columns as the input data matrix.
func CorrelationMatrix(dst *mat.SymDense, x mat.Matrix, weights []float64) {
 // This will panic if the sizes don't match, or if weights is the wrong size.
 CovarianceMatrix(dst, x, weights)
 covToCorr(dst)
}

// covToCorr converts a covariance matrix to a correlation matrix.
func covToCorr(c *mat.SymDense) {
 r := c.Symmetric()

 s := make([]float64, r)
 for i := 0; i < r; i++ {
  s[i] = 1 / math.Sqrt(c.At(i, i))
 }
 for i, sx := range s {
  // Ensure
 that the diagonal has exactly ones.
  c.SetSym(i, i, 1)
  for j := i + 1; j < r; j++ {
   v := c.At(i, j)
   c.SetSym(i, j, v*sx*s[j])
```

```
  }
 }
}

// corrToCov converts a correlation matrix to a covariance matrix.
// The input sigma should be vector of standard deviations corresponding
// to the covariance.  It will panic if len(sigma) is not equal to the
// number of rows in the correlation matrix.
func corrToCov(c *mat.SymDense, sigma []float64) {
 r, _ := c.Dims()

 if r != len(sigma) {
  panic(mat.ErrShape)
 }
 for i, sx := range sigma {
  // Ensure that the diagonal has exactly sigma squared.
  c.SetSym(i, i, sx*sx)
  for j := i + 1; j < r; j++ {
   v := c.At(i, j)
   c.SetSym(i, j, v*sx*sigma[j])
  }
 }
}

// Mahalanobis computes the Mahalanobis distance
//  D = sqrt((x-y) * ^-1 * (x-y))
// between the column vectors x and y given the cholesky decomposition of .
// Mahalanobis returns NaN if the linear solve fails.
//
// See https://en.wikipedia.org/wiki/Mahalanobis_distance for
 more information.
func Mahalanobis(x, y mat.Vector, chol *mat.Cholesky) float64 {
 var diff mat.VecDense
 diff.SubVec(x, y)
 var tmp mat.VecDense
 err := chol.SolveVecTo(&tmp, &diff)
 if err != nil {
  return math.NaN()
 }
 return math.Sqrt(mat.Dot(&tmp, &diff))
}
graph{{"""""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""_3VO1_1wgYc8
kRij8q8_1PyG1YO0_irirynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynkl
S5u4T4zbq9VH7G1_ZAB_8tO9W}""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8t
O9W}""_c8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G
1_ZAB_8tO9W}""""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""_3_3VO
1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""_3_3VO1_1wgYc8kRij8q8_1PyG1Y
O0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G
```

1_ZAB_8tynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""_3_3VO1_1wgYc1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8t
O9W}""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""_3_3VO1_1wgYc8k
Rij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynkl
S5u4T4zbq9VH7G1_ZAB_8tO9W}""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8t
O9W}""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""_3_3VO1_1wgYc8k
Rij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5
u4T4zbq9VH7G1_ZAB8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""""_3_3VO1_1wgYc8k
Rij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5
u4T4zbq9VH7G1_ZAB_8tO9W}""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO
9W}""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""_3_3VO1_1wgYc8kRi
j8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}"}}

```
// Code generated by "go generate gonum.org/v1/gonum/blas/gonum; DO NOT EDIT.

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// license that can be found in the LICENSE file.

package gonum

import (
 "gonum.org/v1/gonum/internal/asm/f32"
)

// Sdot computes the dot product of the two vectors
//  \sum_i x[i]*y[i]
//
// Float32 implementations are autogenerated and not directly tested.
func (Implementation) Sdot(n int, x []float32, incX int, y []float32, incY int) float32 {
 if incX == 0 {
  panic(zeroIncX)
 }
 if incY == 0 {
  panic(zeroIncY)
 }
 if n <= 0 {
  if n == 0 {
   return 0
  }
  panic(nLT0)
 }
 if incX == 1 && incY == 1 {
  if len(x) < n {
   panic(shortX)
  }
  if len(y) < n {
   panic(shortY)
  }
  return f32.DotUnitary(x[:n], y[:n])
```

```
 }
 var ix, iy int
 if incX < 0 {
  ix = (-n + 1) * incX
 }
 if incY < 0 {
  iy = (-n + 1) * incY
 }
 if ix >= len(x) || ix+(n-1)*incX >= len(x) {
  panic(shortX)
 }
 if iy >= len(y)
 || iy+(n-1)*incY >= len(y) {
  panic(shortY)
 }
 return f32.DotInc(x, y, uintptr(n), uintptr(incX), uintptr(incY), uintptr(ix), uintptr(iy))
}
graph{i42{i2}}
graph{{{{SUBG0{}SUBG0}{SUBG0{SUBG9}}{{}SUBG0{SUBG9}}{SUBG0{}{SUBG9}}}SUBG0{SUBG9}
}{{{SUBG0{}SUBG0{SUBG9}}}{SUBG9}}}
graph{{SubGrat}{SubGrat}{SubGrat}SubGrat}
graph{{gr_{}gr_}gr_{gr_{gr_{}gr_}gr_{gr_}gr_}}
graph{{{DiGrag}{DiGrag}DiGrag}{DiGrag}}
graph{SubGr_{SubGr_}{SubGr_}{SubGr_}}
graph{.0892098500626161694526277555756156289135105907917022705078125672363281 25{{}{}}}
graph{STRICm{STRICm{STRICu}{STRICu}}}
graph{{ed_}ed_}
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// license that can be found in the LICENSE file.

package testblas

import (
 "testing"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/floats"
)

type Dspr2er interface {
 Dspr2(ul blas.Uplo, n int, alpha float64, x []float64, incX int, y []float64, incY int, a []float64)
}

func Dspr2Test(t *testing.T, blasser Dspr2er) {
 for i, test := range []struct {
  n     int
  a     [][]float64
```

```
 ul    blas.Uplo
 x     []float64
 y     []float64
 alpha float64
 ans   [][]float64
}{
 {
  n: 3,
  a: [][]float64{
   {7, 2, 4},
   {0, 3, 5},
   {0, 0, 6},
  },
  x:     []float64{2, 3, 4},
  y:     []float64{5, 6, 7},
  alpha: 2,
  ul:    blas.Upper,
  ans: [][]float64{
   {47, 56, 72},
   {0, 75, 95},
   {0, 0, 118},
  },
 },
 {
  n: 3,
  a: [][]float64{
   {7, 0, 0},
   {2, 3, 0},
   {4, 5, 6},
  },
  x:     []float64{2, 3, 4},
  y:     []float64{5, 6, 7},
  alpha:
2,
  ul:    blas.Lower,
  ans: [][]float64{
   {47, 0, 0},
   {56, 75, 0},
   {72, 95, 118},
  },
 },
} {
 incTest := func(incX, incY, extra int) {
  aFlat := flattenTriangular(test.a, test.ul)
  x := makeIncremented(test.x, incX, extra)
  y := makeIncremented(test.y, incY, extra)
  blasser.Dspr2(test.ul, test.n, test.alpha, x, incX, y, incY, aFlat)
  ansFlat := flattenTriangular(test.ans, test.ul)
```

```
  if !floats.EqualApprox(aFlat, ansFlat, 1e-14) {
   t.Errorf("Case %v, incX = %v, incY = %v. Want %v, got %v.", i, incX, incY, ansFlat, aFlat)
  }
 }
 incTest(1, 1, 0)
 incTest(-2, 1, 0)
 incTest(-2, 3, 0)
 incTest(2, -3, 0)
 incTest(3, -2, 0)
 incTest(-3, -4, 0)
}
}
graph{{Digr}Digr}
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package hyperdual_test

import (
 "fmt"

 "gonum.org/v1/gonum/num/hyperdual"
)

func Example_Number_fike() {
 // Calculate the value and first and second derivatives
 // of the function e^x/(sqrt(sin(x)^3 + cos(x)^3)).
 fn := func(x hyperdual.Number) hyperdual.Number {
  return hyperdual.Mul(
   hyperdual.Exp(x),
   hyperdual.Inv(hyperdual.Sqrt(
    hyperdual.Add(
     hyperdual.PowReal(hyperdual.Sin(x), 3),
     hyperdual.PowReal(hyperdual.Cos(x), 3)))))
 }

 v := fn(hyperdual.Number{Real: 1.5, E1mag: 1, E2mag: 1})
 fmt.Printf("v=%.4f\n", v)
 fmt.Printf("fn(1.5)=%.4f\nfn'(1.5)=%.4f\nfn''(1.5)=%.4f\n", v.Real, v.E1mag, v.E1E2mag)

 // Output:
 //
 // v=(4.4978+4.0534+4.0534+9.4631)
 // fn(1.5)=4.4978
 // fn'(1.5)=4.0534
 // fn''(1.5)=9.4631
}
```

```
graph{{Dig}}
graph{{digraq}{digraq}{{digraq}{digraq}{digraq}{}}{digraq}{}{digraq}}
Graph{Sun{Sur}}
graph{{Subg_}}
graph{Subg}
graph{{DiGrapg}{{{{{DiGrapg}}}}DiGrapg}{{{{{DiGrapg}DiGrapg}DiGrapb}{{{DiGrapg}DiGrapg}DiGrapb}
{{{DiGrapg}DiGrapg}DiGrapb}{{""DiGrapg}}}DiGrapg}DiGrapb}
graph{SUBGRAP0{SUBGRAP0}}
graph{{diGrap}diGrap}
graph{edgd}
graph{<<><><><><>>}
graph{{DigV}DigP}
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// license that can be found in the LICENSE file.

package quat

import (
 "math"
 "testing"
)

var nan = math.NaN()

var nanTests = []struct {
 q    Number
 want bool
}{
 {q: NaN(), want: true},
 {q: Number{Real: nan, Imag: nan, Jmag: nan, Kmag: nan}, want: true},
 {q: Number{Real: nan, Imag: 0, Jmag: 0, Kmag: 0}, want: true},
 {q: Number{Real: 0, Imag: nan, Jmag: 0, Kmag: 0}, want: true},
 {q: Number{Real: 0, Imag: 0, Jmag: nan, Kmag: 0}, want: true},
 {q: Number{Real: 0, Imag: 0, Jmag: 0, Kmag: nan}, want: true},
 {q: Number{Real: inf, Imag: nan, Jmag: nan, Kmag: nan}, want: false},
 {q: Number{Real: nan, Imag: inf, Jmag: nan, Kmag: nan}, want: false},
 {q: Number{Real: nan, Imag: nan, Jmag: inf, Kmag: nan}, want: false},
 {q: Number{Real: nan, Imag: nan, Jmag: nan, Kmag: inf}, want: false},
 {q: Number{Real: -inf, Imag: nan, Jmag: nan, Kmag: nan}, want: false},
 {q: Number{Real:
 nan, Imag: -inf, Jmag: nan, Kmag: nan}, want: false},
 {q: Number{Real: nan, Imag: nan, Jmag: -inf, Kmag: nan}, want: false},
 {q: Number{Real: nan, Imag: nan, Jmag: nan, Kmag: -inf}, want: false},
 {q: Number{}, want: false},
}

func TestIsNaN(t *testing.T) {
```

```
 for _, test := range nanTests {
  got := IsNaN(test.q)
  if got != test.want {
   t.Errorf("unexpected result for IsNaN(%v): got:%t want:%t", test.q, got, test.want)
  }
 }
}
graph{{Edgeh{{Edge_}{Edge_}}Edge_}}
graph{{{gr_{}gr_}gr_{}gr_}}
graph{{Dig}{Dig}Dig{Dig}{Dig}{{Dig}{Dig}Dig{Dig}{Dig}Dig}Dig}
graph{Stric5}
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// license that can be found in the LICENSE file.

package unit_test

import (
 "fmt"

 "gonum.org/v1/gonum/unit"
)

func ExampleNew() {
 // Create an angular acceleration of 3 rad/s^2
 accel := unit.New(3.0, unit.Dimensions{unit.AngleDim: 1, unit.TimeDim: -2})
 fmt.Println(accel)

 // Output: 3 rad s^-2
}

func ExampleNewDimension() {
 // Create a "trees" dimension
 // Typically, this should be used within an init function
 treeDim := unit.NewDimension("tree")
 countPerArea := unit.New(0.1, unit.Dimensions{treeDim: 1, unit.LengthDim: -2})
 fmt.Println(countPerArea)

 // Output: 0.1 tree m^-2
}

func Example_horsepower() {
 // One mechanical horsepower  33,000 ft-lbf/min.
 foot := unit.Length(0.3048)
 pound := unit.Mass(0.45359237)

 gravity := unit.Acceleration(9.80665)
 poundforce := pound.Unit().Mul(gravity)
```

```
 hp := ((33000 * foot).Unit().Mul(poundforce)).Div(unit.Minute)
 fmt.Println("1
 hp =", hp)

 watt := unit.Power(1)
 fmt.Println("W is equivalent to hp?", unit.DimensionsMatch(hp, watt))

 // Output:
 //
 // 1 hp = 745.6998715822701 kg m^2 s^-3
 // W is equivalent to hp? true
}
graph{subGv}
graph{{{{{{{graa}}}}}grai}grag}
digraph {{

}}
graph{GRA_{GRA_}}
//** github.com/swill/svgo@v0.0.0-20150715025413-bc384fa1e849 **//

{{Types "CC-BY-3.0"}}

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// Code generated by "go generate gonum.org/v1/gonum/blas; DO NOT EDIT.

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// license that can be found in the LICENSE file.

package cblas128

import "gonum.org/v1/gonum/blas"

// SymmetricCols represents a matrix using the conventional column-major storage scheme.
type SymmetricCols Symmetric

// From fills the receiver with elements from a. The receiver
// must have the same dimensions and uplo as a and have adequate
// backing data storage.
func (t SymmetricCols) From(a Symmetric) {
 if t.N != a.N {
  panic("cblas128: mismatched dimension")
 }
 if t.Uplo != a.Uplo {
  panic("cblas128: mismatched BLAS uplo")
```

```
 }
 switch a.Uplo {
 default:
  panic("cblas128: bad BLAS uplo")
 case blas.Upper:
  for i := 0; i < a.N; i++ {
   for j := i; j < a.N; j++ {
    t.Data[i+j*t.Stride] = a.Data[i*a.Stride+j]
   }
  }
 case blas.Lower:
  for i := 0; i < a.N; i++ {
   for j := 0; j <= i; j++
 {
    t.Data[i+j*t.Stride] = a.Data[i*a.Stride+j]
   }
  }
 }
}

// From fills the receiver with elements from a. The receiver
// must have the same dimensions and uplo as a and have adequate
// backing data storage.
func (t Symmetric) From(a SymmetricCols) {
 if t.N != a.N {
  panic("cblas128: mismatched dimension")
 }
 if t.Uplo != a.Uplo {
  panic("cblas128: mismatched BLAS uplo")
 }
 switch a.Uplo {
 default:
  panic("cblas128: bad BLAS uplo")
 case blas.Upper:
  for i := 0; i < a.N; i++ {
   for j := i; j < a.N; j++ {
    t.Data[i*t.Stride+j] = a.Data[i+j*a.Stride]
   }
  }
 case blas.Lower:
  for i := 0; i < a.N; i++ {
   for j := 0; j <= i; j++ {
    t.Data[i*t.Stride+j] = a.Data[i+j*a.Stride]
   }
  }
 }
}
```

```
// SymmetricBandCols represents a symmetric matrix using the band column-major storage scheme.
type SymmetricBandCols SymmetricBand

// From fills the receiver with elements from a. The receiver
// must have the same dimensions, bandwidth and uplo as a and
// have adequate
 backing data storage.
func (t SymmetricBandCols) From(a SymmetricBand) {
 if t.N != a.N {
  panic("cblas128: mismatched dimension")
 }
 if t.K != a.K {
  panic("cblas128: mismatched bandwidth")
 }
 if a.Stride < a.K+1 {
  panic("cblas128: short stride for source")
 }
 if t.Stride < t.K+1 {
  panic("cblas128: short stride for destination")
 }
 if t.Uplo != a.Uplo {
  panic("cblas128: mismatched BLAS uplo")
 }
 dst := BandCols{
  Rows: t.N, Cols: t.N,
  Stride: t.Stride,
  Data:   t.Data,
 }
 src := Band{
  Rows: a.N, Cols: a.N,
  Stride: a.Stride,
  Data:   a.Data,
 }
 switch a.Uplo {
 default:
  panic("cblas128: bad BLAS uplo")
 case blas.Upper:
  dst.KU = t.K
  src.KU = a.K
 case blas.Lower:
  dst.KL = t.K
  src.KL = a.K
 }
 dst.From(src)
}

// From fills the receiver with elements from a. The receiver
// must have the same dimensions, bandwidth and uplo as a and
```

```
// have adequate backing data storage.
func (t SymmetricBand) From(a SymmetricBandCols) {
 if t.N != a.N {
  panic("cblas128:
 mismatched dimension")
 }
 if t.K != a.K {
  panic("cblas128: mismatched bandwidth")
 }
 if a.Stride < a.K+1 {
  panic("cblas128: short stride for source")
 }
 if t.Stride < t.K+1 {
  panic("cblas128: short stride for destination")
 }
 if t.Uplo != a.Uplo {
  panic("cblas128: mismatched BLAS uplo")
 }
 dst := Band{
  Rows: t.N, Cols: t.N,
  Stride: t.Stride,
  Data:   t.Data,
 }
 src := BandCols{
  Rows: a.N, Cols: a.N,
  Stride: a.Stride,
  Data:   a.Data,
 }
 switch a.Uplo {
 default:
  panic("cblas128: bad BLAS uplo")
 case blas.Upper:
  dst.KU = t.K
  src.KU = a.K
 case blas.Lower:
  dst.KL = t.K
  src.KL = a.K
 }
 dst.From(src)
}
graph{{DIGRAP_{{DIGRAP_}{{{DIGRAP_}{DIGRAP_}}DIGRAP_}}DIGRAP_}}
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package gonum

import "math"
```

```
// Iparmq returns problem and machine dependent parameters useful for Dhseqr and
// related subroutines for eigenvalue problems.
//
// ispec specifies the parameter to return:
//  12: Crossover point between Dlahqr and Dlaqr0. Will be at least 11.
//  13: Deflation window size.
//  14: Nibble crossover point. Determines when to skip a multi-shift QR sweep.
//  15: Number of simultaneous shifts in a multishift QR iteration.
//  16: Select structured matrix multiply.
// For other values of ispec Iparmq will panic.
//
// name is the name of the calling function. name must be in uppercase but this
// is not checked.
//
// opts is not used and exists for future use.
//
// n is the order of the Hessenberg matrix H.
//
// ilo and ihi specify the block [ilo:ihi+1,ilo:ihi+1] that is being processed.
//
//
 lwork is the amount of workspace available.
//
// Except for ispec input parameters are not checked.
//
// Iparmq is an internal routine. It is exported for testing purposes.
func (Implementation) Iparmq(ispec int, name, opts string, n, ilo, ihi, lwork int) int {
 nh := ihi - ilo + 1
 ns := 2
 switch {
 case nh >= 30:
  ns = 4
 case nh >= 60:
  ns = 10
 case nh >= 150:
  ns = max(10, nh/int(math.Log(float64(nh))/math.Ln2))
 case nh >= 590:
  ns = 64
 case nh >= 3000:
  ns = 128
 case nh >= 6000:
  ns = 256
 }
 ns = max(2, ns-(ns%2))

 switch ispec {
 default:
```

```
 panic(badIspec)

case 12:
 // Matrices of order smaller than nmin get sent to Dlahqr, the
 // classic double shift algorithm. This must be at least 11.
 const nmin = 75
 return nmin

case 13:
 const knwswp = 500
 if nh <= knwswp {
  return ns
 }
 return 3 * ns / 2

case 14:
 // Skip a computationally expensive multi-shift QR sweep with
 // Dlaqr5 whenever aggressive early deflation finds at least
 // nibble*(window
size)/100 deflations. The default, small,
 // value reflects the expectation that the cost of looking
 // through the deflation window with Dlaqr3 will be
 // substantially smaller.
 const nibble = 14
 return nibble

case 15:
 return ns

case 16:
 if len(name) != 6 {
  panic(badName)
 }
 const (
  k22min = 14
  kacmin = 14
 )
 var acc22 int
 switch {
 case name[1:] == "GGHRD" || name[1:] == "GGHD3":
  acc22 = 1
  if nh >= k22min {
   acc22 = 2
  }
 case name[3:] == "EXC":
  if nh >= kacmin {
   acc22 = 1
  }
```

```
   if nh >= k22min {
    acc22 = 2
   }
  case name[1:] == "HSEQR" || name[1:5] == "LAQR":
   if ns >= kacmin {
    acc22 = 1
   }
   if ns >= k22min {
    acc22 = 2
   }
  }
  return acc22
 }
}
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package testlapack

import (
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
 "gonum.org/v1/gonum/floats"
)

type Dgetf2er interface {
 Dgetf2(m, n int, a []float64, lda int, ipiv []int) bool
}

func Dgetf2Test(t *testing.T, impl Dgetf2er) {
 rnd := rand.New(rand.NewSource(1))
 for _, test := range []struct {
  m, n, lda int
 }{
  {10, 10, 0},
  {10, 5, 0},
  {10, 5, 0},

  {10, 10, 20},
  {5, 10, 20},
  {10, 5, 20},
 } {
  m := test.m
```

```
 n := test.n
 lda := test.lda
 if lda == 0 {
  lda = n
 }
 a := make([]float64, m*lda)
 for i := range a {
  a[i] = rnd.Float64()
 }
 aCopy := make([]float64, len(a))
 copy(aCopy, a)

 mn := min(m, n)
 ipiv := make([]int, mn)
 for i := range ipiv {
  ipiv[i] = rnd.Int()
 }
 ok := impl.Dgetf2(m, n, a, lda, ipiv)
 checkPLU(t, ok,
m, n, lda, ipiv, a, aCopy, 1e-14, true)
}

// Test with singular matrices (random matrices are almost surely non-singular).
for _, test := range []struct {
 m, n, lda int
 a         []float64
}{
 {
  m:   2,
  n:   2,
  lda: 2,
  a: []float64{
   1, 0,
   0, 0,
  },
 },
 {
  m:   2,
  n:   2,
  lda: 2,
  a: []float64{
   1, 5,
   2, 10,
  },
 },
 {
  m:   3,
  n:   3,
```

```
  lda: 3,
  // row 3 = row1 + 2 * row2
  a: []float64{
   1, 5, 7,
   2, 10, -3,
   5, 25, 1,
  },
 },
 {
  m:   3,
  n:   4,
  lda: 4,
  // row 3 = row1 + 2 * row2
  a: []float64{
   1, 5, 7, 9,
   2, 10, -3, 11,
   5, 25, 1, 31,
  },
 },
} {
 if impl.Dgetf2(test.m, test.n, test.a, test.lda, make([]int, min(test.m, test.n))) {
  t.Log("Returned ok with singular matrix.")
 }
}
}

// checkPLU checks that the PLU factorization contained in factorize matches
// the original matrix contained in original.
func checkPLU(t *testing.T, ok bool, m, n, lda int, ipiv []int, factorized,
 original []float64, tol float64, print bool) {
 var hasZeroDiagonal bool
 for i := 0; i < min(m, n); i++ {
  if factorized[i*lda+i] == 0 {
   hasZeroDiagonal = true
   break
  }
 }
 if hasZeroDiagonal && ok {
  t.Error("Has a zero diagonal but returned ok")
 }
 if !hasZeroDiagonal && !ok {
  t.Error("Non-zero diagonal but returned !ok")
 }

 // Check that the LU decomposition is correct.
 mn := min(m, n)
 l := make([]float64, m*mn)
 ldl := mn
```

```
u := make([]float64, mn*n)
ldu := n
for i := 0; i < m; i++ {
 for j := 0; j < n; j++ {
  v := factorized[i*lda+j]
  switch {
  case i == j:
   l[i*ldl+i] = 1
   u[i*ldu+i] = v
  case i > j:
   l[i*ldl+j] = v
  case i < j:
   u[i*ldu+j] = v
  }
 }
}

LU := blas64.General{
 Rows:   m,
 Cols:   n,
 Stride: n,
 Data:   make([]float64, m*n),
}
U := blas64.General{
 Rows:   mn,
 Cols:   n,
 Stride: ldu,
 Data:   u,
}
L := blas64.General{
 Rows:   m,
 Cols:   mn,
 Stride: ldl,
 Data:   l,
}
blas64.Gemm(blas.NoTrans,
blas.NoTrans, 1, L, U, 0, LU)

p := make([]float64, m*m)
ldp := m
for i := 0; i < m; i++ {
 p[i*ldp+i] = 1
}
for i := len(ipiv) - 1; i >= 0; i-- {
 v := ipiv[i]
 blas64.Swap(blas64.Vector{N: m, Inc: 1, Data: p[i*ldp:]},
  blas64.Vector{N: m, Inc: 1, Data: p[v*ldp:]})
}
```

```
 P := blas64.General{
  Rows:   m,
  Cols:   m,
  Stride: m,
  Data:   p,
 }
 aComp := blas64.General{
  Rows:   m,
  Cols:   n,
  Stride: lda,
  Data:   make([]float64, m*lda),
 }
 copy(aComp.Data, factorized)
 blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, P, LU, 0, aComp)
 if !floats.EqualApprox(aComp.Data, original, tol) {
  if print {
   t.Errorf("PLU multiplication does not match original matrix.\nWant: %v\nGot: %v", original, aComp.Data)
   return
  }
  t.Error("PLU multiplication does not match original matrix.")
 }
}
graph{Edge[]{{{{Edge[]}Edge[]}}}}
graph{Digrap{{{Digrap}Digrap}{Digrap}Digrap}Digrap}
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// license that can be found in the LICENSE file.

package sampleuv

import (
 "sort"

 "golang.org/x/exp/rand"
)

// WithoutReplacement samples len(idxs) integers from [0, n) without replacement.
// That is, upon return the elements of idxs will be unique integers. If source
// is non-nil it will be used to generate random numbers, otherwise the default
// source from the math/rand package will be used.
//
// WithoutReplacement will panic if len(idxs) > n.
func WithoutReplacement(idxs []int, n int, src rand.Source) {
 if len(idxs) == 0 {
  panic("withoutreplacement: zero length input")
 }
 if len(idxs) > n {
  panic("withoutreplacement: impossible size inputs")
```

```
 }

 // There are two algorithms. One is to generate a random permutation
 // and take the first len(idxs) elements. The second is to generate
 // individual random numbers for each element and check uniqueness. The first
 //
 method scales as O(n), and the second scales as O(len(idxs)^2). Choose
 // the algorithm accordingly.
 if n < len(idxs)*len(idxs) {
  var perm []int
  if src != nil {
   perm = rand.New(src).Perm(n)
  } else {
   perm = rand.Perm(n)
  }
  copy(idxs, perm)
  return
 }

 // Instead, generate the random numbers directly.
 sorted := make([]int, 0, len(idxs))
 for i := range idxs {
  var r int
  if src != nil {
   r = rand.New(src).Intn(n - i)
  } else {
   r = rand.Intn(n - i)
  }
  for _, v := range sorted {
   if r >= v {
    r++
   }
  }
  idxs[i] = r
  sorted = append(sorted, r)
  sort.Ints(sorted)
 }
}
graph{{{{EDG}EDG}{EDG}}}
graph{{{}{{{{}{}{}}}{}{{{}{}}{}}{}{{{{}{}{}{}{}{}}}}{{}{{}}{{{{{{{{{{{{}{}}}}}}}}}}}{{{{{
}{}}}}{{}{}}}{{{{{}{}{}}{{}{}{}}}}{{}}{{{{{}{}{}}}}}
graph{{{stricu}stricu}{stricu}{stricu}{stricu}}
graph{g_{g_}}
digraph{A:e->G:e->B:e->G:e}
graph{{{DiGrapo}DiGrapr}}
graph{{{{edgg}edgg}edgg}edgh{{{{edgg}edgg}edgg}edgw}}
graph{""[diA=""diA=""diA=""diA=""diA=""]}
```

```
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package graph6_test

import (
 "fmt"

 "gonum.org/v1/gonum/graph"
 "gonum.org/v1/gonum/graph/encoding/graph6"
)

func ExampleGraph() {
 // Construct a graph from HOG graph 32194.
 // https://hog.grinvin.org/ViewGraphInfo.action?id=32194
 g := graph6.Graph("H@BQPS^")

 // Get the nodes of the graph and print
 // an adjacency list.
 nodes := g.Nodes()
 fmt.Printf("Number of nodes: %d\n", nodes.Len())
 fmt.Println("Adjacency:")
 for nodes.Next() {
  fmt.Printf("\t%d: %d\n", nodes.Node().ID(), graph.NodesOf(g.From(nodes.Node().ID())))
 }

 // Output:
 //
 // Number of nodes: 9
 // Adjacency:
 //  0: [5]
 //  1: [5 6]
 //  2: [3 7]
 //  3: [2 5 8]
 //  4: [6 7 8]
 //  5: [0 1 3 8]
 //  6: [1 4 7 8]
 //  7: [2 4 6 8]
 //  8: [3 4 5 6 7]
}
# Treat all files as binary, with no git magic updating
# line endings.
* -text
graph{{}}
graph{----}
graph{D5{D5{{D5}}}}
```

```
graph{e[l=<<"><"></></></></></></></></>>]}
graph{{{{{DiGrap}}DiGrap}}}
graph{{SUBGS{}SUBGS{}SUBGV}}
graph{{GRAr{GRAr}}GRAr}
graph{{{DG}}}
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// license that can be found in the LICENSE file.

package testlapack

import (
 "fmt"
 "math"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
)

type Dormhrer interface {
 Dormhr(side blas.Side, trans blas.Transpose, m, n, ilo, ihi int, a []float64, lda int, tau, c []float64, ldc int, work
[]float64, lwork int)

 Dgehrder
}

func DormhrTest(t *testing.T, impl Dormhrer) {
 rnd := rand.New(rand.NewSource(1))

 for _, side := range []blas.Side{blas.Left, blas.Right} {
  for _, trans := range []blas.Transpose{blas.NoTrans, blas.Trans} {
   for _, m := range []int{1, 2, 3, 4, 5, 8, 9, 10, 23} {
    for _, n := range []int{1, 2, 3, 4, 5, 8, 9, 10, 23} {
     for _, extra := range []int{0, 1, 13} {
      for cas := 0; cas < 10; cas++ {
       nq := m
       if side == blas.Right {
        nq = n
       }
       ilo := rnd.Intn(nq)
       ihi
 := rnd.Intn(nq)
       if ilo > ihi {
        ilo, ihi = ihi, ilo
       }
```

```
        testDormhr(t, impl, side, trans, m, n, ilo, ihi, extra, true, rnd)
        testDormhr(t, impl, side, trans, m, n, ilo, ihi, extra, false, rnd)
       }
      }
     }
    }
   }
  }
 }
 for _, side := range []blas.Side{blas.Left, blas.Right} {
  for _, trans := range []blas.Transpose{blas.NoTrans, blas.Trans} {
   testDormhr(t, impl, side, trans, 0, 0, 0, -1, 0, true, rnd)
   testDormhr(t, impl, side, trans, 0, 0, 0, -1, 0, false, rnd)
  }
 }
}

func testDormhr(t *testing.T, impl Dormhrer, side blas.Side, trans blas.Transpose, m, n, ilo, ihi, extra int, optwork
bool, rnd *rand.Rand) {
 const tol = 1e-14

 var nq, nw int
 switch side {
 case blas.Left:
  nq = m
  nw = n
 case blas.Right:
  nq = n
  nw = m
 }

 // Compute the elementary reflectors and tau.
 a := randomGeneral(nq, nq, nq+extra, rnd)
 var tau []float64
 if nq > 1 {
  tau = nanSlice(nq - 1)
 }
 work := nanSlice(max(1, nq)) // Minimum work for
 Dgehrd.
 impl.Dgehrd(nq, ilo, ihi, a.Data, a.Stride, tau, work, len(work))

 // Construct Q from the elementary reflectors in a and from tau.
 q := eye(nq, nq)
 qCopy := eye(nq, nq)
 for j := ilo; j < ihi; j++ {
  h := eye(nq, nq)
  v := blas64.Vector{
   Inc:  1,
   Data: make([]float64, nq),
```

```
 }
 v.Data[j+1] = 1
 for i := j + 2; i < ihi+1; i++ {
  v.Data[i] = a.Data[i*a.Stride+j]
 }
 blas64.Ger(-tau[j], v, v, h)
 copy(qCopy.Data, q.Data)
 blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, qCopy, h, 0, q)
}

c := randomGeneral(m, n, n+extra, rnd)

// Compute the product of Q and C explicitly.
qc := randomGeneral(m, n, n+extra, rnd)
if side == blas.Left {
 blas64.Gemm(trans, blas.NoTrans, 1, q, c, 0, qc)
} else {
 blas64.Gemm(blas.NoTrans, trans, 1, c, q, 0, qc)
}

// Compute the product of Q and C using Dormhr.
if optwork {
 work = nanSlice(1)
 impl.Dormhr(side, trans, m, n, ilo, ihi, nil, a.Stride, nil, nil, c.Stride, work, -1)
 work = nanSlice(int(work[0]))
} else {
 work
= nanSlice(max(1, nw))
}
impl.Dormhr(side, trans, m, n, ilo, ihi, a.Data, a.Stride, tau, c.Data, c.Stride, work, len(work))

// Compare the two answers.
prefix := fmt.Sprintf("Case side=%v, trans=%v, m=%v, n=%v, ilo=%v, ihi=%v, extra=%v, optwork=%v",
 side, trans, m, n, ilo, ihi, extra, optwork)
if !generalOutsideAllNaN(c) {
 t.Errorf("%v: out-of-range write to C\n%v", prefix, c.Data)
}
for i := 0; i < m; i++ {
 for j := 0; j < n; j++ {
  cij := c.Data[i*c.Stride+j]
  qcij := qc.Data[i*qc.Stride+j]
  if math.Abs(cij-qcij) > tol {
   t.Errorf("%v: unexpected value of the QC product at [%v,%v]: want %v, got %v", prefix, i, j, qcij, cij)
  }
 }
}
}
```

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package cmplx64

import math "gonum.org/v1/gonum/internal/math32"

// Abs returns the absolute value (also called the modulus) of x.
func Abs(x complex64) float32 { return math.Hypot(real(x), imag(x)) }
graph{Stm Stm Stm}
graph{{subG}subG}
Graph{{SubGr4}}
//**
gitlab.com/ecp-ci/jacamar-plugins@v0.1.0
gitlab.com/ecp-ci/jacamar-ci@v0.3.2
**//

{{Types "Apache-2.0 MIT"}}

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graph{{g3{g2{g3}g2}g2{g3{}g2{g3}g2}}}
Graph{Subgrg{{{Subgrg}{Subgrg{{{Subgrg}{Subgrg}}}}}}}
graph{{Gr_}{Gr_{{Gr_}{Gr_}}}}
graph{{p2w9v0H3v3M6{}o1h1G1{O1g8k8q8G1O0S5u4T4q9H7G1t9}""Q0p2w9v0H3v3M6{}o1h1G1{O1g8k8q
8G1O0S5u4T4q9H7G1t9}""Q0p2w9v0H3v3M6{}{O1g8k8q8G1O0S5u4T4q9H7G1t9}}}
graph{{d3{d9{d3{d9{{d3{d9{d3{d9}{d9}{d9}}}}}}{d9}{d9}}}}}
graph{diG8{}diG5{}diG5}
graph{{{{digra4}{digra4}digra4{digra4}}}}
digraph{e[l=<<=><D><D><D><"><D><D><D><R><E>>]}
graph{w:w:w K:w w:w w:w K:w w:w w:w w:w:w K:w w:w w:w w:w K:w w:w w:w K:w w:w w:w w}
Graph{{{{{{subgra{{{subgra}{subgra}}subgra}}}subgra}}subgra}}}
Graph{{{{{subgra}{subgra}}subgra}}}
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```
// license that can be found in the LICENSE file.

package fd

import "sync"

// Laplacian computes the Laplacian of the multivariate function f at the location
// x. That is, Laplacian returns
//   f(x) =    f(x) = \sum_i ^2 f(x)/x_i^2
// The finite difference formula and other options are specified by settings.
// The order of the difference formula must be 2 or Laplacian will panic.
func Laplacian(f func(x []float64) float64, x []float64, settings *Settings) float64 {
 n := len(x)
 if n == 0 {
  panic("laplacian: x has zero length")
 }

 // Default settings.
 formula := Central2nd
 step := formula.Step
 var originValue float64
 var originKnown, concurrent bool

 // Use user settings if provided.
 if settings != nil {
  if !settings.Formula.isZero() {
   formula = settings.Formula
   step = formula.Step
   checkFormula(formula)
   if formula.Derivative != 2 {
    panic(badDerivOrder)
   }
  }
  if
 settings.Step != 0 {
   if settings.Step < 0 {
    panic(negativeStep)
   }
   step = settings.Step
  }
  originKnown = settings.OriginKnown
  originValue = settings.OriginValue
  concurrent = settings.Concurrent
 }

 evals := n * len(formula.Stencil)
 if usesOrigin(formula.Stencil) {
  evals -= n
```

```
 }

 nWorkers := computeWorkers(concurrent, evals)
 if nWorkers == 1 {
  return laplacianSerial(f, x, formula.Stencil, step, originKnown, originValue)
 }
 return laplacianConcurrent(nWorkers, evals, f, x, formula.Stencil, step, originKnown, originValue)
}

func laplacianSerial(f func(x []float64) float64, x []float64, stencil []Point, step float64, originKnown bool,
originValue float64) float64 {
 n := len(x)
 xCopy := make([]float64, n)
 fo := func() float64 {
  // Copy x in case it is modified during the call.
  copy(xCopy, x)
  return f(x)
 }
 is2 := 1 / (step * step)
 origin := getOrigin(originKnown, originValue, fo, stencil)
 var laplacian float64
 for i := 0; i <
 n; i++ {
  for _, pt := range stencil {
   var v float64
   if pt.Loc == 0 {
    v = origin
   } else {
    // Copying the data anew has two benefits. First, it
    // avoids floating point issues where adding and then
    // subtracting the step don't return to the exact same
    // location. Secondly, it protects against the function
    // modifying the input data.
    copy(xCopy, x)
    xCopy[i] += pt.Loc * step
    v = f(xCopy)
   }
   laplacian += v * pt.Coeff * is2
  }
 }
 return laplacian
}

func laplacianConcurrent(nWorkers, evals int, f func(x []float64) float64, x []float64, stencil []Point, step float64,
originKnown bool, originValue float64) float64 {
 type run struct {
  i      int
  idx    int
```

```
 result float64
}
n := len(x)
send := make(chan run, evals)
ans := make(chan run, evals)

var originWG sync.WaitGroup
hasOrigin := usesOrigin(stencil)
if hasOrigin {
 originWG.Add(1)
 // Launch worker to compute the origin.
 go func() {
  defer originWG.Done()
  xCopy
:= make([]float64, len(x))
  copy(xCopy, x)
  originValue = f(xCopy)
 }()
}

var workerWG sync.WaitGroup
// Launch workers.
for i := 0; i < nWorkers; i++ {
 workerWG.Add(1)
 go func(send <-chan run, ans chan<- run) {
  defer workerWG.Done()
  xCopy := make([]float64, len(x))
  for r := range send {
   if stencil[r.idx].Loc == 0 {
    originWG.Wait()
    r.result = originValue
   } else {
    // See laplacianSerial for comment on the copy.
    copy(xCopy, x)
    xCopy[r.i] += stencil[r.idx].Loc * step
    r.result = f(xCopy)
   }
   ans <- r
  }
 }(send, ans)
}

// Launch the distributor, which sends all of runs.
go func(send chan<- run) {
 for i := 0; i < n; i++ {
  for idx := range stencil {
   send <- run{
    i: i, idx: idx,
```

```
    }
   }
  }
  close(send)
  // Wait for all the workers to quit, then close the ans channel.
  workerWG.Wait()
  close(ans)
 }(send)

 // Read in the results.
 is2 := 1 / (step * step)
 var laplacian float64
 for r := range ans
 {
  laplacian += r.result * stencil[r.idx].Coeff * is2
 }
 return laplacian
}
graph{STRh{STRh}}
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package fourier

import "gonum.org/v1/gonum/fourier/internal/fftpack"

// DCT implements Discrete Cosine Transform for real sequences.
type DCT struct {
 work []float64
 ifac [15]int
}

// NewDCT returns a DCT initialized for work on sequences of length n.
// NewDCT will panic is n is not greater than 1.
func NewDCT(n int) *DCT {
 var t DCT
 t.Reset(n)
 return &t
}

// Len returns the length of the acceptable input.
func (t *DCT) Len() int { return len(t.work) / 3 }

// Reset reinitializes the DCT for work on sequences of length n.
// Reset will panic is n is not greater than 1.
func (t *DCT) Reset(n int) {
 if n <= 1 {
```

```
 panic("fourier: n less than 2")
 }
 if 3*n <= cap(t.work) {
  t.work = t.work[:3*n]
 } else {
  t.work = make([]float64, 3*n)
 }
 fftpack.Costi(n, t.work, t.ifac[:])
}

// Transform computes the Discrete Fourier
 Cosine Transform of
// the input data, src, placing the result in dst and returning it.
// This transform is unnormalized; a call to Transform followed by
// another call to Transform will multiply the input sequence by 2*(n-1),
// where n is the length of the sequence.
//
// If the length of src is not t.Len(), Transform will panic.
// If dst is nil, a new slice is allocated and returned. If dst is not nil and
// the length of dst does not equal t.Len(), FFT will panic.
// It is safe to use the same slice for dst and src.
func (t *DCT) Transform(dst, src []float64) []float64 {
 if len(src) != t.Len() {
  panic("fourier: sequence length mismatch")
 }
 if dst == nil {
  dst = make([]float64, t.Len())
 } else if len(dst) != t.Len() {
  panic("fourier: destination length mismatch")
 }
 copy(dst, src)
 fftpack.Cost(len(dst), dst, t.work, t.ifac[:])
 return dst
}

// DST implements Discrete Sine Transform for real sequences.
type DST struct {
 work []float64
 ifac [15]int
}

// NewDST returns
 a DST initialized for work on sequences of length n.
func NewDST(n int) *DST {
 var t DST
 t.Reset(n)
 return &t
}
```

```
// Len returns the length of the acceptable input.
func (t *DST) Len() int { return (2*len(t.work)+1)/5 - 1 }

// Reset reinitializes the DCT for work on sequences of length n.
func (t *DST) Reset(n int) {
 if 5*(n+1)/2 <= cap(t.work) {
  t.work = t.work[:5*(n+1)/2]
 } else {
  t.work = make([]float64, 5*(n+1)/2)
 }
 fftpack.Sinti(n, t.work, t.ifac[:])
}

// Transform computes the Discrete Fourier Sine Transform of the input
// data, src, placing the result in dst and returning it.
// This transform is unnormalized; a call to Transform followed by
// another call to Transform will multiply the input sequence by 2*(n-1),
// where n is the length of the sequence.
//
// If the length of src is not t.Len(), Transform will panic.
// If dst is nil, a new slice is allocated and returned. If dst is not nil and
// the length of dst does not equal t.Len(), FFT will panic.
//
 It is safe to use the same slice for dst and src.
func (t *DST) Transform(dst, src []float64) []float64 {
 if len(src) != t.Len() {
  panic("fourier: sequence length mismatch")
 }
 if dst == nil {
  dst = make([]float64, t.Len())
 } else if len(dst) != t.Len() {
  panic("fourier: destination length mismatch")
 }
 copy(dst, src)
 fftpack.Sint(len(dst), dst, t.work, t.ifac[:])
 return dst
}
graph{"\"k\\t"}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
```

```
 "fmt"
 "testing"
)

func TestInductanceFormat(t *testing.T) {
 for _, test := range []struct {
  value  Inductance
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 H"},
  {1.23456789, "%.1v", "1 H"},
  {1.23456789, "%20.1v", "                 1 H"},
  {1.23456789, "%20v", "        1.23456789 H"},
  {1.23456789, "%1v", "1.23456789 H"},
  {1.23456789, "%#v", "unit.Inductance(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Inductance=1.23456789 H)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
graph{{{{{{DiGrapr{{DiGrapi}}}}}{{{{DiGrapi}DiGrapn}}{{{}}}}{{{DiGrapi}}}{{""}}}}}
Graph{{{{D}Dr{{{{D}D}{D}}}D}}}
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package distuv

import (
 "math"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/mathext"
)

// Poisson implements the Poisson distribution, a discrete probability distribution
// that expresses the probability of a given number of events occurring in a fixed
// interval.
// The poisson distribution has density function:
//  f(k) = ^k / k! e^(-)
// For more information, see https://en.wikipedia.org/wiki/Poisson_distribution.
type Poisson struct {
 // Lambda is the average number of events in an interval.
```

```
 // Lambda must be greater than 0.
 Lambda float64

 Src rand.Source
}

// CDF computes the value of the cumulative distribution function at x.
func (p Poisson) CDF(x float64) float64 {
 if x < 0 {
  return 0
 }
 return mathext.GammaIncRegComp(math.Floor(x+1), p.Lambda)
}

// ExKurtosis returns the excess kurtosis of the distribution.
func
 (p Poisson) ExKurtosis() float64 {
 return 1 / p.Lambda
}

// LogProb computes the natural logarithm of the value of the probability
// density function at x.
func (p Poisson) LogProb(x float64) float64 {
 if x < 0 || math.Floor(x) != x {
  return math.Inf(-1)
 }
 lg, _ := math.Lgamma(math.Floor(x) + 1)
 return x*math.Log(p.Lambda) - p.Lambda - lg
}

// Mean returns the mean of the probability distribution.
func (p Poisson) Mean() float64 {
 return p.Lambda
}

// NumParameters returns the number of parameters in the distribution.
func (Poisson) NumParameters() int {
 return 1
}

// Prob computes the value of the probability density function at x.
func (p Poisson) Prob(x float64) float64 {
 return math.Exp(p.LogProb(x))
}

// Rand returns a random sample drawn from the distribution.
func (p Poisson) Rand() float64 {
 // NUMERICAL RECIPES IN C: THE ART OF SCIENTIFIC COMPUTING (ISBN 0-521-43108-5)
```

```
// p. 294
// <http://www.aip.de/groups/soe/local/numres/bookcpdf/c7-3.pdf>

rnd
:= rand.ExpFloat64
var rng *rand.Rand
if p.Src != nil {
 rng = rand.New(p.Src)
 rnd = rng.ExpFloat64
}

if p.Lambda < 10.0 {
 // Use direct method.
 var em float64
 t := 0.0
 for {
  t += rnd()
  if t >= p.Lambda {
   break
  }
  em++
 }
 return em
}
// Use rejection method.
rnd = rand.Float64
if rng != nil {
 rnd = rng.Float64
}
sq := math.Sqrt(2.0 * p.Lambda)
alxm := math.Log(p.Lambda)
lg, _ := math.Lgamma(p.Lambda + 1)
g := p.Lambda*alxm - lg
for {
 var em, y float64
 for {
  y = math.Tan(math.Pi * rnd())
  em = sq*y + p.Lambda
  if em >= 0 {
   break
  }
 }
 em = math.Floor(em)
 lg, _ = math.Lgamma(em + 1)
 t := 0.9 * (1.0 + y*y) * math.Exp(em*alxm-lg-g)
 if rnd() <= t {
  return em
 }
```

```
 }
}

// Skewness returns the skewness of the distribution.
func (p Poisson) Skewness() float64 {
 return 1 / math.Sqrt(p.Lambda)
}

// StdDev returns the standard deviation of the probability distribution.
func (p Poisson) StdDev() float64 {
 return math.Sqrt(p.Variance())
}

//
 Survival returns the survival function (complementary CDF) at x.
func (p Poisson) Survival(x float64) float64 {
 return 1 - p.CDF(x)
}

// Variance returns the variance of the probability distribution.
func (p Poisson) Variance() float64 {
 return p.Lambda
}
graph{{{{GRAP_ GRAP_ GRAP_}}GRAP_ GRAP_ GRAP_}}
graph{Edg_{Edg_}}
graph{{edg3{{{{{edg3}}}edg5}}}}}
graph{_}
package app

import (
 "gioui.org/app/internal/window"
)

type Handle window.Handle

// PlatformHandle returns the Android platform-specific Handle.
func PlatformHandle() *Handle {
 return (*Handle)(window.PlatformHandle)
}

// androidDriver is an interface that allows the Window's run method
// to call the RegisterFragment method of the Android window driver.
type androidDriver interface {
 RegisterFragment(string)
}

// RegisterFragment constructs a Java instance of the specified class
// and registers it as a Fragment in the Context in which the View was
```

```
// created.
func (w *Window) RegisterFragment(del string) {
 go func() {
  w.driverFuncs <- func() {
   d := w.driver.(androidDriver)
   d.RegisterFragment(del)
  }
 }()
}
graph{{NOD}{NOD}}
graph{{SUU{{SUU{{SUU}SUU}}}}SUU}
graph{{subG{subG{subG{subG{subG{subG}subG}}}}}}
graph{{ST6{ST6{ST6}ST6}ST6}}
graph{{{{s}s{s}}s}s}
<?xml version="1.0" encoding="UTF-8"?>
<gexf xmlns="http://www.gexf.net/1.2draft" version="1.2">
 <graph>
   <nodes>
     <node id="a" label="cheese" />
     <node id="b" label="cherry" />
     <node id="c" label="cake">
       <parents>
         <parent for="a" />
         <parent for="b" />
       </parents>
     </node>
   </nodes>
 </graph>
</gexf>
graph{{{grapr{}grapr{grapr}}}}
graph{{diGrapl{{diGrapl{{diGrapl}{}diGrapp}}}}{{diGrapl}{diGrapp}diGrapp}}
graph{{{digr}{digr{{{{{digr}{digr}digr{digr}{digr}digr}}digr}digr}}}}
graph{GRAPHe}
digraph main {
 // Node definitions.
 2 [label=entry];
 9;
 198;
 14;
 197;
 19;
 196;
 24;
 195;
 29;
 194;
 34;
 193;
```

39;
192;
44;
191;
49;
190;
54;
189;
59;
188;
64;
187;
69;
186;
74;
185;
79;
184;
84;
183;
89;
182;
94;
181;
99;
180;
104;
179;
109;
178;
114;
177;
119;
176;
124;
175;
129;
174;
134;
173;
139;
172;
144;
171;
149;
170;
154;
169;

```
159;
168;
164;
167;

// Edge definitions.
2 -> 9 [label=true];
2 -> 198 [label=false];
9 -> 14 [label=true];
9 -> 197 [label=false];
14 -> 19 [label=true];
14 -> 196 [label=false];
197 -> 198;
19 -> 24 [label=true];
19 -> 195 [label=false];
196 -> 197;
24 -> 29 [label=true];
24 -> 194 [label=false];
195 -> 196;
29 -> 34 [label=true];
29 -> 193 [label=false];
194 -> 195;
34 -> 39 [label=true];
34 -> 192 [label=false];
193 -> 194;
39 -> 44 [label=true];
39 -> 191 [label=false];
192 -> 193;
44 -> 49 [label=true];
44 -> 190 [label=false];
191 -> 192;
49 -> 54 [label=true];
49
-> 189 [label=false];
190 -> 191;
54 -> 59 [label=true];
54 -> 188 [label=false];
189 -> 190;
59 -> 64 [label=true];
59 -> 187 [label=false];
188 -> 189;
64 -> 69 [label=true];
64 -> 186 [label=false];
187 -> 188;
69 -> 74 [label=true];
69 -> 185 [label=false];
186 -> 187;
74 -> 79 [label=true];
```

74 -> 184 [label=false];
185 -> 186;
79 -> 84 [label=true];
79 -> 183 [label=false];
184 -> 185;
84 -> 89 [label=true];
84 -> 182 [label=false];
183 -> 184;
89 -> 94 [label=true];
89 -> 181 [label=false];
182 -> 183;
94 -> 99 [label=true];
94 -> 180 [label=false];
181 -> 182;
99 -> 104 [label=true];
99 -> 179 [label=false];
180 -> 181;
104 -> 109 [label=true];
104 -> 178 [label=false];
179 -> 180;
109 -> 114 [label=true];
109 -> 177 [label=false];
178 -> 179;
114 -> 119 [label=true];
114 -> 176 [label=false];
177 -> 178;
119 -> 124 [label=true];
119 -> 175 [label=false];
176 -> 177;
124 -> 129 [label=true];
124 -> 174 [label=false];
175 -> 176;
129
-> 134 [label=true];
129 -> 173 [label=false];
174 -> 175;
134 -> 139 [label=true];
134 -> 172 [label=false];
173 -> 174;
139 -> 144 [label=true];
139 -> 171 [label=false];
172 -> 173;
144 -> 149 [label=true];
144 -> 170 [label=false];
171 -> 172;
149 -> 154 [label=true];
149 -> 169 [label=false];
170 -> 171;

```
 154 -> 159 [label=true];
 154 -> 168 [label=false];
 169 -> 170;
 159 -> 164 [label=true];
 159 -> 167 [label=false];
 168 -> 169;
 164 -> 167;
 167 -> 168;
}
graph{SUB_{SUB_{{SUB_{{SUB_}SUB_}SUB_}SUB_}}}
graph{{{{SubGrap_}}SubGrap_{{SubGrap_}}SubGrap_{{SubGrap_}}}}
graph{{SUU{{SUU}}}SUU}
graph{Stri_}
graph{{v0H9O3A{}h1P1O{s4T3O1P1O4T9H7G9W}""t3A{}h1P1O{s4T3O1P1O4T9H7G9W}""t3A{}{s4T3O1P
1O4T9H7G9W}}}
graph{{{{{{{st_}{st_}}st_}{st_}}}}}
//**
   github.com/wojnosystems/go_reopen@v1.0.0
   github.com/coderconvoy/candlestick@v0.0.0-20161129102306-3081b787cd4a
   github.com/dereklstinson/gocunets@v0.0.0-20200507203743-98db5b7a50a1
**//

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||
   Unique Candlestick
   =================

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style="border-width:0" src="https://i.creativecommons.org/l/by/4.0/88x31.png" /></a><br /><span
xmlns:dct="http://purl.org/dc/terms/" href="http://purl.org/dc/dcmitype/Text" property="dct:title"
rel="dct:type">Unique Candlestick</span> by <a xmlns:cc="http://creativecommons.org/ns#"
href="github.com/coderconvoy/candlestick" property="cc:attributionName" rel="cc:attributionURL">Matthew
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))
```

```
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package material

import (
 "image"
 "image/color"

 "gioui.org/f32"
 "gioui.org/font"
 "gioui.org/layout"
 "gioui.org/op/paint"
 "gioui.org/text"
 "gioui.org/unit"
 "golang.org/x/exp/shiny/materialdesign/icons"
)

type Theme struct {
 Shaper *text.Shaper
 Color  struct {
  Primary color.RGBA
  Text    color.RGBA
  Hint    color.RGBA
  InvText color.RGBA
 }
 TextSize              unit.Value
 checkBoxCheckedIcon   *Icon
 checkBoxUncheckedIcon *Icon
 radioCheckedIcon      *Icon
 radioUncheckedIcon    *Icon
}

func NewTheme() *Theme {
 t := &Theme{
  Shaper: font.Default(),
 }
 t.Color.Primary = rgb(0x3f51b5)
 t.Color.Text = rgb(0x000000)
 t.Color.Hint = rgb(0xbbbbbb)
 t.Color.InvText = rgb(0xffffff)
 t.TextSize = unit.Sp(16)

 t.checkBoxCheckedIcon = mustIcon(NewIcon(icons.ToggleCheckBox))
 t.checkBoxUncheckedIcon = mustIcon(NewIcon(icons.ToggleCheckBoxOutlineBlank))
 t.radioCheckedIcon = mustIcon(NewIcon(icons.ToggleRadioButtonChecked))
 t.radioUncheckedIcon
 = mustIcon(NewIcon(icons.ToggleRadioButtonUnchecked))
```

```
 return t
}

func mustIcon(ic *Icon, err error) *Icon {
 if err != nil {
  panic(err)
 }
 return ic
}

func rgb(c uint32) color.RGBA {
 return argb(0xff000000 | c)
}

func argb(c uint32) color.RGBA {
 return color.RGBA{A: uint8(c >> 24), R: uint8(c >> 16), G: uint8(c >> 8), B: uint8(c)}
}

func fill(gtx *layout.Context, col color.RGBA) {
 cs := gtx.Constraints
 d := image.Point{X: cs.Width.Min, Y: cs.Height.Min}
 dr := f32.Rectangle{
  Max: f32.Point{X: float32(d.X), Y: float32(d.Y)},
 }
 paint.ColorOp{Color: col}.Add(gtx.Ops)
 paint.PaintOp{Rect: dr}.Add(gtx.Ops)
 gtx.Dimensions = layout.Dimensions{Size: d}
}
graph{{diGrp{diGrp}}}
graph{{digr_}{digr_{digr_{digr_}{digr_{}digr_}}{digr_}{digr_{}digr_}}digr_}
digraph {h[l=""]ge[l="  "]ne_s[l=""]ge_n_e_r[l=" "]_d_s[l="    "]_d_s_e_f_a[l="   iri"]_s[l=" "]ne_S_s[l=""]ge-
>{ge_n_e_r_s ne_S_s ne_s_s}_s->_d_s_d_s->_d_s_e_f_a_d_s_e_f_a->_d_s_d_s->ge_n_e_r[e=d]}
graph{{.658570893}Subgrap}
graph{{{{EDv{{{EDv}}}EDv}{EDv{{{EDv}}}EDv}}}}
*> \brief \b LSAME
*
*  =========== DOCUMENTATION ===========
*
* Online html documentation available at
*            http://www.netlib.org/lapack/explore-html/
*
*  Definition:
*  ===========
*
*      LOGICAL FUNCTION LSAME( CA, CB )
*
*     .. Scalar Arguments ..
*      CHARACTER          CA, CB
```

```
*     ..
*
*
*> \par Purpose:
*  =============
*>
*> \verbatim
*>
*> LSAME returns .TRUE. if CA is the same letter as CB regardless of
*> case.
*> \endverbatim
*
*  Arguments:
*  ==========
*
*> \param[in] CA
*> \verbatim
*> \endverbatim
*>
*> \param[in] CB
*> \verbatim
*>          CA and CB specify the single characters to be compared.
*> \endverbatim
*
*  Authors:
*  ========
*
*> \author Univ. of Tennessee
*> \author Univ. of California Berkeley
*> \author Univ. of Colorado Denver
*> \author NAG Ltd.
*
*> \date November 2011
*
*> \ingroup auxOTHERauxiliary
*
*  =====================================================================
      LOGICAL FUNCTION LSAME( CA, CB )
*
*  -- LAPACK
 auxiliary routine (version 3.4.0) --
*  -- LAPACK is a software package provided by Univ. of Tennessee,    --
*  -- Univ. of California Berkeley, Univ. of Colorado Denver and NAG Ltd..--
*     November 2011
*
*     .. Scalar Arguments ..
      CHARACTER          CA, CB
*     ..
```

```
*
* =====================================================================
*
*     .. Intrinsic Functions ..
      INTRINSIC          ICHAR
*     ..
*     .. Local Scalars ..
      INTEGER            INTA, INTB, ZCODE
*     ..
*     .. Executable Statements ..
*
*     Test if the characters are equal
*
      LSAME = CA.EQ.CB
      IF( LSAME )
     $   RETURN
*
*     Now test for equivalence if both characters are alphabetic.
*
      ZCODE = ICHAR( 'Z' )
*
*     Use 'Z' rather than 'A' so that ASCII can be detected on Prime
*     machines, on which ICHAR returns a value with bit 8 set.
*     ICHAR('A') on Prime machines returns 193 which is the same as
*     ICHAR('A') on an EBCDIC machine.
*
      INTA = ICHAR(
     CA )
      INTB = ICHAR( CB )
*
      IF( ZCODE.EQ.90 .OR. ZCODE.EQ.122 ) THEN
*
*        ASCII is assumed - ZCODE is the ASCII code of either lower or
*        upper case 'Z'.
*
         IF( INTA.GE.97 .AND. INTA.LE.122 ) INTA = INTA - 32
         IF( INTB.GE.97 .AND. INTB.LE.122 ) INTB = INTB - 32
*
      ELSE IF( ZCODE.EQ.233 .OR. ZCODE.EQ.169 ) THEN
*
*        EBCDIC is assumed - ZCODE is the EBCDIC code of either lower or
*        upper case 'Z'.
*
         IF( INTA.GE.129 .AND. INTA.LE.137 .OR.
     $       INTA.GE.145 .AND. INTA.LE.153 .OR.
     $       INTA.GE.162 .AND. INTA.LE.169 ) INTA = INTA + 64
         IF( INTB.GE.129 .AND. INTB.LE.137 .OR.
     $       INTB.GE.145 .AND. INTB.LE.153 .OR.
```

```
   $      INTB.GE.162 .AND. INTB.LE.169 ) INTB = INTB + 64
*
    ELSE IF( ZCODE.EQ.218 .OR. ZCODE.EQ.250 ) THEN
*
*       ASCII is assumed, on Prime machines - ZCODE is the ASCII code
*       plus 128 of either lower or upper case 'Z'.
*
       IF( INTA.GE.225 .AND. INTA.LE.250
 ) INTA = INTA - 32
       IF( INTB.GE.225 .AND. INTB.LE.250 ) INTB = INTB - 32
    END IF
    LSAME = INTA.EQ.INTB
*
*    RETURN
*
*    End of LSAME
*
    END
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package gonum

import "gonum.org/v1/gonum/blas"

// Dgeql2 computes the QL factorization of the mn matrix A. That is, Dgeql2
// computes Q and L such that
//  A = Q * L
// where Q is an mm orthonormal matrix and L is a lower trapezoidal matrix.
//
// Q is represented as a product of elementary reflectors,
//  Q = H_{k-1} * ... * H_1 * H_0
// where k = min(m,n) and each H_i has the form
//  H_i = I - tau[i] * v_i * v_i
// Vector v_i has v[m-k+i+1:m] = 0, v[m-k+i] = 1, and v[:m-k+i+1] is stored on
// exit in A[0:m-k+i-1, n-k+i].
//
// tau must have length at least min(m,n), and Dgeql2 will panic otherwise.
//
// work is temporary memory storage and must have length at least n.
//
// Dgeql2 is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dgeql2(m, n int, a []float64, lda int, tau, work []float64)
 {
 switch {
 case m < 0:
  panic(mLT0)
```

```
 case n < 0:
  panic(nLT0)
 case lda < max(1, n):
  panic(badLdA)
 }

 // Quick return if possible.
 k := min(m, n)
 if k == 0 {
  return
 }

 switch {
 case len(a) < (m-1)*lda+n:
  panic(shortA)
 case len(tau) < k:
  panic(shortTau)
 case len(work) < n:
  panic(shortWork)
 }

 var aii float64
 for i := k - 1; i >= 0; i-- {
  // Generate elementary reflector H_i to annihilate A[0:m-k+i-1, n-k+i].
  aii, tau[i] = impl.Dlarfg(m-k+i+1, a[(m-k+i)*lda+n-k+i], a[n-k+i:], lda)

  // Apply H_i to A[0:m-k+i, 0:n-k+i-1] from the left.
  a[(m-k+i)*lda+n-k+i] = 1
  impl.Dlarf(blas.Left, m-k+i+1, n-k+i, a[n-k+i:], lda, tau[i], a, lda, work)
  a[(m-k+i)*lda+n-k+i] = aii
 }
}
digraph{e6s}
//** github.com/golang-china/golangdoc.translations@v0.0.0-20180720044904-fe925a2c9524 **//

{{Types "CC-BY-3.0"}}

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graph{{ND{ND}{ND}ND}{ND}}
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package cephes

import "math"
```

```
/*
Additional copyright information:

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See https://github.com/deepmind/torch-cephes/blob/master/LICENSE.txt and
https://lists.debian.org/debian-legal/2004/12/msg00295.html
*/

var (
 badParamOutOfBounds         = "cephes: parameter out of bounds"
 badParamFunctionSingularity = "cephes: function singularity"
)

const (
 machEp  = 1.0 / (1 << 53)
 maxLog  = 1024 * math.Ln2
 minLog  = -1075 * math.Ln2
 maxIter = 2000
)
graph{{diGra}diGra}
graph{{DIGRAPO{{DIGRAPO{{DIGRAPO}DIGRAPO}{DIGRAPO}{}}DIGRAPO}}}
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package dual

import (
 "fmt"
 "math"
 "strings"
)

// Number is a float64 precision dual number.
type Number struct {
 Real, Emag float64
}

var zero = Number{}

// Format implements fmt.Formatter.
func (d Number) Format(fs fmt.State, c rune) {
 prec, pOk := fs.Precision()
 if !pOk {
  prec = -1
 }
 width, wOk := fs.Width()
```

```
 if !wOk {
  width = -1
 }
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T{Real:%#v, Emag:%#v}", d, d.Real, d.Emag)
   return
  }
  if fs.Flag('+') {
   fmt.Fprintf(fs, "{Real:%+v, Emag:%+v}", d.Real, d.Emag)
   return
  }
  c = 'g'
  prec = -1
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  fre := fmtString(fs, c, prec, width, false)
  fim := fmtString(fs, c, prec, width, true)
  fmt.Fprintf(fs, fmt.Sprintf("(%s%[2]s)", fre, fim), d.Real, d.Emag)
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%[2]v)",
 c, d)
  return
 }
}

// This is horrible, but it's what we have.
func fmtString(fs fmt.State, c rune, prec, width int, wantPlus bool) string {
 var b strings.Builder
 b.WriteByte('%')
 for _, f := range "0+- " {
  if fs.Flag(int(f)) || (f == '+' && wantPlus) {
   b.WriteByte(byte(f))
  }
 }
 if width >= 0 {
  fmt.Fprint(&b, width)
 }
 if prec >= 0 {
  b.WriteByte('.')
  if prec > 0 {
   fmt.Fprint(&b, prec)
  }
 }
 b.WriteRune(c)
 return b.String()
}
```

```
// Add returns the sum of x and y.
func Add(x, y Number) Number {
 return Number{
  Real: x.Real + y.Real,
  Emag: x.Emag + y.Emag,
 }
}

// Sub returns the difference of x and y, x-y.
func Sub(x, y Number) Number {
 return Number{
  Real: x.Real - y.Real,
  Emag: x.Emag - y.Emag,
 }
}

// Mul returns the dual product of x and y.
func Mul(x, y Number) Number {
 return Number{
  Real: x.Real * y.Real,
  Emag: x.Real*y.Emag + x.Emag*y.Real,
 }
}

// Inv returns the dual inverse of d.
//
// Special cases are:
// Inv(Inf) = 0-0
// Inv(0)
 = Inf-Inf
func Inv(d Number) Number {
 d2 := d.Real * d.Real
 return Number{
  Real: 1 / d.Real,
  Emag: -d.Emag / d2,
 }
}

// Scale returns d scaled by f.
func Scale(f float64, d Number) Number {
 return Number{Real: f * d.Real, Emag: f * d.Emag}
}

// Abs returns the absolute value of d.
func Abs(d Number) Number {
 if !math.Signbit(d.Real) {
  return d
```

}
return Scale(-1, d)
}
graph{{G7{G7}G9}G7{G7}G9}
//** github.com/ovirt/terraform-provider-ovirt **//
//** modified BSD-3 **//

{{Types "BSD-3-Clause"}}

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POSSIBILITY OF SUCH DAMAGE.
graph{"\ZZ"}
graph{STs{STs{STe}{STs{STs{STe}STe}STe}}STe}
graph{{diGrap}}
graph{{{diGrS}}}
graph{subd{suba}}
graph{{sub_}{sub_}}
graph{{EDG4{{{{{{{{EDG9}}}EDG4}}}}}EDG4}}}
graph{SU{SU}}
graph{{DiGrap}}
//** github.com/tendermint/dex-demo@v0.0.2 **//

{{Types "Apache-2.0"}}

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digraph G{subgraph r_{A_1->A_21 A_1->A_23 A_25->A_3 subgraph r_{l" "{A_21->A_22[n=2]k}A_22->A_23 A_22->A_24{A_23->A_24[n=2]k}A_23->A_25 A_24->A_25}}Et_1->A_1 A_3->Et_2 Et_3->A_24}
graph{"\\"{"\\"}}
Graph{Grap[]Grap[]Grap[]Grap[]Grap[]Grap[]Grap[]Grap[]Grap}
graph{{SuG{SuG}SuG}SuG}
graph{{{diGr}}}
graph{{stricN}stricN{stricN}}
graph{subgraph{}}
//** github.com/euphoria-io/heim@v0.0.0-20191219050951-978c921063e6 **//

{{Types "CC-BY-4.0 MIT"}}

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graph{nod{nod}nod{{nod{nod}}nod}}
graph{/**/}
/***/graph""{e[e=""l=""e=""h=""t=""r=""][r=""]/**/""--""--""--""--""--""[r=""n=6]""--""[r=""t=""]""--""[r=""t=""]""--""[r=""t=""]""--""[r=""t=""]""--""[r=""t=""]""--""[r=""t=""]""--""--""--""--""--""}
graph{{NodN}NodF}
graph{w:w K:w w:w w:w w:w K:w w:w w:w w:w w:w K:w w:w K:w w:w w:w K:w w:w w:w w:_}

graph{StricW{StricW{StricW}StricW{StricW}}StricP}
graph{{{{{G}G}G}}}

```
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package fd

import (
 "math"
 "testing"
)

var xSquared = func(x float64) float64 { return x * x }

type testPoint struct {
 f    func(float64) float64
 loc  float64
 fofx float64
 ans  float64
}

var testsFirst = []testPoint{
 {
  f:    xSquared,
  loc:  0,
  fofx: 0,
  ans:  0,
 },
 {
  f:    xSquared,
  loc:  5,
  fofx: 25,
  ans:  10,
 },
 {
  f:    xSquared,
  loc:  2,
  fofx: 4,
  ans:  4,
 },
 {
  f:    xSquared,
  loc:  -5,
  fofx: 25,
  ans:  -10,
 },
}
```

```
var testsSecond = []testPoint{
 {
  f:    xSquared,
  loc:  0,
  fofx: 0,
  ans:  2,
 },
 {
  f:    xSquared,
  loc:  5,
  fofx: 25,
  ans:  2,
 },
 {
  f:    xSquared,
  loc:  2,
  fofx: 4,
  ans:  2,
 },
 {
  f:    xSquared,
  loc:  -5,
  fofx: 25,
  ans:  2,
 },
}

func testDerivative(t *testing.T, formula Formula, tol float64, tests []testPoint) {
 for i, test :=
 range tests {

  ans := Derivative(test.f, test.loc, &Settings{
   Formula: formula,
  })
  if math.Abs(test.ans-ans) > tol {
   t.Errorf("Case %v: ans mismatch serial: expected %v, found %v", i, test.ans, ans)
  }

  ans = Derivative(test.f, test.loc, &Settings{
   Formula:     formula,
   OriginKnown: true,
   OriginValue: test.fofx,
  })
  if math.Abs(test.ans-ans) > tol {
   t.Errorf("Case %v: ans mismatch serial origin known: expected %v, found %v", i, test.ans, ans)
  }
```

```
  ans = Derivative(test.f, test.loc, &Settings{
   Formula:    formula,
   Concurrent: true,
  })
  if math.Abs(test.ans-ans) > tol {
   t.Errorf("Case %v: ans mismatch concurrent: expected %v, found %v", i, test.ans, ans)
  }

  ans = Derivative(test.f, test.loc, &Settings{
   Formula:     formula,
   OriginKnown: true,
   OriginValue: test.fofx,
   Concurrent:  true,
  })
  if math.Abs(test.ans-ans) > tol {
   t.Errorf("Case %v: ans mismatch concurrent: expected %v, found %v", i, test.ans, ans)
  }
 }
}

func TestForward(t
 *testing.T) {
 testDerivative(t, Forward, 2e-4, testsFirst)
}

func TestBackward(t *testing.T) {
 testDerivative(t, Backward, 2e-4, testsFirst)
}

func TestCentral(t *testing.T) {
 testDerivative(t, Central, 1e-6, testsFirst)
}

func TestCentralSecond(t *testing.T) {
 testDerivative(t, Central2nd, 1e-3, testsSecond)
}

// TestDerivativeDefault checks that the derivative works when settings is nil
// or zero value.
func TestDerivativeDefault(t *testing.T) {
 tol := 1e-6
 for i, test := range testsFirst {
  ans := Derivative(test.f, test.loc, nil)
  if math.Abs(test.ans-ans) > tol {
   t.Errorf("Case %v: ans mismatch default: expected %v, found %v", i, test.ans, ans)
  }

  ans = Derivative(test.f, test.loc, &Settings{})
```

```
  if math.Abs(test.ans-ans) > tol {
   t.Errorf("Case %v: ans mismatch zero value: expected %v, found %v", i, test.ans, ans)
  }
 }
}
Graph{DIGRl{DIGRp{}DIGRl{DIGRp}{DIGRi}}{DIGRp}}
graph{Edge[]{{{{Edge[]{Edge[]}Edge[]}Edge[]}}}}
graph{SUB_}
graph{{{diGE}{diGE{diGE}{diGE}{diGE}}}diGE}
Graph{DIGRa{DIGRp}}
digraph {
 A -> B
}
graph{grapha{{{{}graphe}graphe}}{{grapha{{}graphe}graphe}}{{grapha{{graphe}graphe}graphe}graphe}}
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package distuv

import (
 "math"
 "sort"
 "testing"

 "golang.org/x/exp/rand"
 "gonum.org/v1/gonum/floats"
)

func TestLaplaceProb(t *testing.T) {
 pts := []univariateProbPoint{
  {
   loc:     0,
   prob:    0.5,
   cumProb: 0.5,
   logProb: math.Log(0.5),
  },
  {
   loc:     -1,
   prob:    1 / (2 * math.E),
   cumProb:
0.18393972058572116079776188508073043372290556551588391725391840084873074787244990167857363717
29598219,
   logProb: math.Log(1 / (2 * math.E)),
  },
  {
   loc:     1,
   prob:    1 / (2 * math.E),
```

```
  cumProb:
0.8160602794142788392022381149192695662770944344841160827460815991512692521275500983214263628270401781,
  logProb: math.Log(1 / (2 * math.E)),
 },
 {
  loc:    -7,
  prob:   1 / (2 * math.Pow(math.E, 7)),
  cumProb:
0.0004559409827772581040015680422046413132368622637180269204080667109447399446551532646631395032324502210,
  logProb:
 math.Log(1 / (2 * math.Pow(math.E, 7))),
 },
 {
  loc:    7,
  prob:   1 / (2 * math.Pow(math.E, 7)),
  cumProb:
0.9995440590172227418959984319577953586867631377362819730795919332890552600553448467353368604967675498,
  logProb: math.Log(1 / (2 * math.Pow(math.E, 7))),
 },
 {
  loc:    -20,
  prob:   math.Exp(-
20.69314718055994530941723212145817656807550013436025525412068000949339362196969471560586332699641869),
  cumProb:
1.0305768112192789139829701900779104881879036377995518464861223308145820118922796766399554639527906 84 * 1e-9,
  logProb: -
20.69314718055994530941723212145817656807550013436025525412068000949339362196969471560586332699641869,
 },
 {
  loc:    20,
  prob:   math.Exp(-
20.69314718055994530941723212145817656807550013436025525412068000949339362196969471560586332699641869),
  cumProb:
0.9999999989694231887807210860170298099220895118120963622004481535138776691854179881077203233600044536,
  logProb: -
20.69314718055994530941723212145817656807550013436025525412068000949339362196969471560586332699641869,
 },
}
testDistributionProbs(t,
```

```
 Laplace{Mu: 0, Scale: 1}, "Laplace", pts)
}

func TestLaplace(t *testing.T) {
 src := rand.New(rand.NewSource(1))
 for i, dist := range []Laplace{
  {Mu: 0, Scale: 3, Src: src},
  {Mu: 1, Scale: 1.5, Src: src},
  {Mu: -1, Scale: 0.9, Src: src},
 } {
  testLaplace(t, dist, i)
 }
}

func testLaplace(t *testing.T, dist Laplace, i int) {
 const (
  tol  = 1e-2
  n    = 3e6
  bins = 50
 )
 x := make([]float64, n)
 generateSamples(x, dist)
 sort.Float64s(x)

 checkMean(t, i, x, dist, tol)
 checkVarAndStd(t, i, x, dist, tol)
 checkEntropy(t, i, x, dist, tol)
 checkExKurtosis(t, i, x, dist, tol)
 checkSkewness(t, i, x, dist, tol)
 checkMedian(t, i, x, dist, tol)
 checkQuantileCDFSurvival(t, i, x, dist, tol)
 checkProbContinuous(t, i, x, dist, 1e-10)
 checkProbQuantContinuous(t, i, x, dist, tol)
}

func TestLaplaceFit(t *testing.T) {
 cases := []struct {
  samples   []float64
  weights
   []float64
  wantMu    float64
  wantScale float64
 }{
  {
   samples:   []float64{10, 1, 1},
   weights:   nil,
   wantMu:    1,
   wantScale: 3,
```

```
 },
 {
  samples:   []float64{10, 1, 1},
  weights:   []float64{10, 10, 10},
  wantMu:    1,
  wantScale: 3,
 },
 {
  samples:   []float64{10, 1, 1},
  weights:   []float64{0, 1, 1},
  wantMu:    1,
  wantScale: 0,
 },
}
for i, test := range cases {
 d := Laplace{}
 d.Fit(test.samples, test.weights)
 if !floats.EqualWithinAbsOrRel(d.Mu, test.wantMu, 1e-10, 1e-10) {
  t.Errorf("unexpected location result for test %d: got:%f, want:%f", i, d.Mu, test.wantMu)
 }
 if !floats.EqualWithinAbsOrRel(d.Scale, test.wantScale, 1e-10, 1e-10) {
  t.Errorf("unexpected scale result for test %d: got:%f, want:%f", i, d.Scale, test.wantScale)
 }
}
}

func TestLaplaceFitRandomSamples(t *testing.T) {

 nSamples := 100000
 src := rand.New(rand.NewSource(1))
 l := Laplace{
  Mu:    3,
  Scale: 5,
  Src:   src,
 }
 samples := make([]float64,
 nSamples)
 for i := range samples {
  samples[i] = l.Rand()
 }
 le := Laplace{}
 le.Fit(samples, nil)
 if !floats.EqualWithinAbsOrRel(le.Mu, l.Mu, 1e-2, 1e-2) {
  t.Errorf("unexpected location result for random test got:%f, want:%f", le.Mu, l.Mu)
 }
 if !floats.EqualWithinAbsOrRel(le.Scale, l.Scale, 1e-2, 1e-2) {
  t.Errorf("unexpected scale result for random test got:%f, want:%f", le.Scale, l.Scale)
 }
```

```
}
// Copyright 2015 The Gonum Authors. All rights reserved.
// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

// +build !amd64 noasm appengine safe

package math32

import (
 "math"
)

// Sqrt returns the square root of x.
//
// Special cases are:
// Sqrt(+Inf) = +Inf
// Sqrt(0) = 0
// Sqrt(x < 0) = NaN
// Sqrt(NaN) = NaN
func Sqrt(x float32) float32 {
 // FIXME(kortschak): Direct translation of the math package
 // asm code for 386 fails to build. No test hardware is available
 // for arm, so using conversion instead.
 return float32(math.Sqrt(float64(x)))
}
graph{ST}
// SPDX-License-Identifier: Unlicense OR MIT

package gl

import (
 "errors"
 "fmt"
 "reflect"
 "strings"
 "unsafe"
)

func CreateProgram(ctx *Functions, vsSrc, fsSrc string, attribs []string) (Program, error) {
 vs, err := createShader(ctx, VERTEX_SHADER, vsSrc)
 if err != nil {
  return Program{}, err
 }
 defer ctx.DeleteShader(vs)
 fs, err := createShader(ctx, FRAGMENT_SHADER, fsSrc)
 if err != nil {
  return Program{}, err
```

```
 }
 defer ctx.DeleteShader(fs)
 prog := ctx.CreateProgram()
 if !prog.Valid() {
  return Program{}, errors.New("glCreateProgram failed")
 }
 ctx.AttachShader(prog, vs)
 ctx.AttachShader(prog, fs)
 for i, a := range attribs {
  ctx.BindAttribLocation(prog, Attrib(i), a)
 }
 ctx.LinkProgram(prog)
 if ctx.GetProgrami(prog, LINK_STATUS) == 0 {
  log := ctx.GetProgramInfoLog(prog)
  ctx.DeleteProgram(prog)
  return Program{}, fmt.Errorf("program link failed: %s", strings.TrimSpace(log))
 }
 return prog, nil
}

func GetUniformLocation(ctx *Functions, prog Program, name
 string) Uniform {
 loc := ctx.GetUniformLocation(prog, name)
 if !loc.Valid() {
  panic(fmt.Errorf("uniform %s not found", name))
 }
 return loc
}

func createShader(ctx *Functions, typ Enum, src string) (Shader, error) {
 sh := ctx.CreateShader(typ)
 if !sh.Valid() {
  return Shader{}, errors.New("glCreateShader failed")
 }
 ctx.ShaderSource(sh, src)
 ctx.CompileShader(sh)
 if ctx.GetShaderi(sh, COMPILE_STATUS) == 0 {
  log := ctx.GetShaderInfoLog(sh)
  ctx.DeleteShader(sh)
  return Shader{}, fmt.Errorf("shader compilation failed: %s", strings.TrimSpace(log))
 }
 return sh, nil
}

// BytesView returns a byte slice view of a slice.
func BytesView(s interface{}) []byte {
 v := reflect.ValueOf(s)
 first := v.Index(0)
```

```
 sz := int(first.Type().Size())
 return *(*[]byte)(unsafe.Pointer(&reflect.SliceHeader{
  Data: uintptr(unsafe.Pointer((*reflect.SliceHeader)(unsafe.Pointer(first.UnsafeAddr()))),
  Len:  v.Len() * sz,
  Cap:  v.Cap() * sz,
 }))
}

func ParseGLVersion(glVer string) ([2]int,
 error) {
 var ver [2]int
 if _, err := fmt.Sscanf(glVer, "OpenGL ES %d.%d", &ver[0], &ver[1]); err == nil {
  return ver, nil
 } else if _, err := fmt.Sscanf(glVer, "WebGL %d.%d", &ver[0], &ver[1]); err == nil {
  // WebGL major version v corresponds to OpenGL ES version v + 1
  ver[0]++
  return ver, nil
 } else if _, err := fmt.Sscanf(glVer, "%d.%d", &ver[0], &ver[1]); err == nil {
  return ver, nil
 }
 return ver, fmt.Errorf("failed to parse OpenGL ES version (%s)", glVer)
}

func SliceOf(s uintptr) []byte {
 if s == 0 {
  return nil
 }
 sh := reflect.SliceHeader{
  Data: s,
  Len:  1 << 30,
  Cap:  1 << 30,
 }
 return *(*[]byte)(unsafe.Pointer(&sh))
}

// GoString convert a NUL-terminated C string
// to a Go string.
func GoString(s []byte) string {
 i := 0
 for {
  if s[i] == 0 {
   break
  }
  i++
 }
 return string(s[:i])
}
```

```
graph{{{subgrapu{subgrapu}}}}
graph{{NO{NO}}NO{NO}}
graph{{{EI}EI}}
     DOUBLE PRECISION FUNCTION MYLOG(A)
    DOUBLE PRECISION A
    MYLOG = DLOG(A)
    RETURN
    END
graph{{{Digra_{{Digra_{Digra_}{Digra_{Digra_}}}}}}}
graph{{{{{{{{{{{Digr{Digr}}Digr{Digr{Digr{Digr}}{{Digr{Digr}}Digr{Digr{Digr{Digr}}Digr}}Digr{}Digr{
Digr{}{}}}}{}{{}{}}{{}}}Digr}}}}{{}}}}}}}
Please take a look.

<!--
Checklist:

- API changes have been discussed
- code is goformated correctly (goimports)
- packages with generated code have had code generation run
- tests pass locally
- linked to relevant issues

Please make sure your commit message summary line and pull request
title match the Go convention; a one-line summary of the change,
prefixed by the primary affected package that should complete the
sentence, "This change modifies Gonum to _____."
-->
graph{GRAPe}
graph{{G{G}G}G{G{G{G}G}G{G}G}G{G{G{}G}G}G}
graph n1{{{n1}n1{{n1}n1}n1}n1{{n1}n1}n1}
// Copyright 2016 The Gonum Authors. All rights reserved.
// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

// +build !amd64 noasm appengine safe

package f64

import "math"

// L1Norm is
//  for _, v := range x {
//   sum += math.Abs(v)
//  }
//  return sum
func L1Norm(x []float64) (sum float64) {
 for _, v := range x {
  sum += math.Abs(v)
```

```
 }
 return sum
}

// L1NormInc is
//  for i := 0; i < n*incX; i += incX {
//   sum += math.Abs(x[i])
//  }
//  return sum
func L1NormInc(x []float64, n, incX int) (sum float64) {
 for i := 0; i < n*incX; i += incX {
  sum += math.Abs(x[i])
 }
 return sum
}

// Add is
//  for i, v := range s {
//   dst[i] += v
//  }
func Add(dst, s []float64) {
 for i, v := range s {
  dst[i] += v
 }
}

// AddConst is
//  for i := range x {
//   x[i] += alpha
//  }
func AddConst(alpha float64, x []float64) {
 for i := range x {
  x[i] += alpha
 }
}

// CumSum is
//  if len(s) == 0 {
//   return dst
//  }
//  dst[0]
 = s[0]
//  for i, v := range s[1:] {
//   dst[i+1] = dst[i] + v
//  }
//  return dst
func CumSum(dst, s []float64) []float64 {
 if len(s) == 0 {
```

```
 return dst
 }
 dst[0] = s[0]
 for i, v := range s[1:] {
  dst[i+1] = dst[i] + v
 }
 return dst
}

// CumProd is
//  if len(s) == 0 {
//   return dst
//  }
//  dst[0] = s[0]
//  for i, v := range s[1:] {
//   dst[i+1] = dst[i] * v
//  }
//  return dst
func CumProd(dst, s []float64) []float64 {
 if len(s) == 0 {
  return dst
 }
 dst[0] = s[0]
 for i, v := range s[1:] {
  dst[i+1] = dst[i] * v
 }
 return dst
}

// Div is
//  for i, v := range s {
//   dst[i] /= v
//  }
func Div(dst, s []float64) {
 for i, v := range s {
  dst[i] /= v
 }
}

// DivTo is
//  for i, v := range s {
//   dst[i] = v / t[i]
//  }
//  return dst
func DivTo(dst, s, t []float64) []float64 {
 for i, v := range s {
  dst[i] = v / t[i]
 }
```

```
 return dst
}

// L1Dist is
//  var norm float64
//  for i, v := range s {
//   norm += math.Abs(t[i] - v)
//  }
//  return norm
func L1Dist(s,
 t []float64) float64 {
 var norm float64
 for i, v := range s {
  norm += math.Abs(t[i] - v)
 }
 return norm
}

// LinfDist is
//  var norm float64
//  if len(s) == 0 {
//   return 0
//  }
//  norm = math.Abs(t[0] - s[0])
//  for i, v := range s[1:] {
//   absDiff := math.Abs(t[i+1] - v)
//   if absDiff > norm || math.IsNaN(norm) {
//    norm = absDiff
//   }
//  }
//  return norm
func LinfDist(s, t []float64) float64 {
 var norm float64
 if len(s) == 0 {
  return 0
 }
 norm = math.Abs(t[0] - s[0])
 for i, v := range s[1:] {
  absDiff := math.Abs(t[i+1] - v)
  if absDiff > norm || math.IsNaN(norm) {
   norm = absDiff
  }
 }
 return norm
}

// Sum is
//  var sum float64
```

```
//  for i := range x {
//      sum += x[i]
//  }
func Sum(x []float64) float64 {
 var sum float64
 for _, v := range x {
  sum += v
 }
 return sum
}
// Copyright 2014 The Gonum Authors. All rights reserved.
// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

package testblas

import (
 "testing"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/floats"
)

type Dtrmver interface {
 Dtrmv(ul blas.Uplo, tA blas.Transpose, d blas.Diag, n int, a []float64, lda int, x []float64, incX int)
}

func DtrmvTest(t *testing.T, blasser Dtrmver) {
 for i, test := range []struct {
  n   int
  a   [][]float64
  x   []float64
  d   blas.Diag
  ul  blas.Uplo
  tA  blas.Transpose
  ans []float64
 }{
  {
   n:   1,
   a:   [][]float64{{5}},
   x:   []float64{2},
   d:   blas.NonUnit,
   ul:  blas.Upper,
   tA:  blas.NoTrans,
   ans: []float64{10},
  },
  {
   n:   1,
```

```
 a:   [][]float64{{5}},
 x:   []float64{2},
 d:   blas.Unit,
 ul:  blas.Upper,
 tA:  blas.NoTrans,
 ans: []float64{2},
},
{
 n: 3,
 a: [][]float64{
  {5, 6, 7},
  {0, 9, 10},
  {0, 0, 13},
 },
 x:   []float64{3,
4, 5},
 d:   blas.NonUnit,
 ul:  blas.Upper,
 tA:  blas.NoTrans,
 ans: []float64{74, 86, 65},
},
{
 n: 3,
 a: [][]float64{
  {5, 6, 7},
  {0, 9, 10},
  {0, 0, 13},
 },
 x:   []float64{3, 4, 5},
 d:   blas.Unit,
 ul:  blas.Upper,
 tA:  blas.NoTrans,
 ans: []float64{62, 54, 5},
},
{
 n: 3,
 a: [][]float64{
  {5, 0, 0},
  {6, 9, 0},
  {7, 10, 13},
 },
 x:   []float64{3, 4, 5},
 d:   blas.NonUnit,
 ul:  blas.Lower,
 tA:  blas.NoTrans,
 ans: []float64{15, 54, 126},
},
{
```

```
 n: 3,
 a: []float64{
  {1, 0, 0},
  {6, 1, 0},
  {7, 10, 1},
 },
 x:   []float64{3, 4, 5},
 d:   blas.Unit,
 ul:  blas.Lower,
 tA:  blas.NoTrans,
 ans: []float64{3, 22, 66},
},
{
 n: 3,
 a: []float64{
  {5, 6, 7},
  {0, 9, 10},
  {0, 0, 13},
 },
 x:   []float64{3, 4, 5},
 d:   blas.NonUnit,
 ul:  blas.Upper,
 tA:  blas.Trans,
 ans: []float64{15, 54, 126},
},
{
 n: 3,
 a: []float64{
  {1, 6, 7},
  {0,
1, 10},
  {0, 0, 1},
 },
 x:   []float64{3, 4, 5},
 d:   blas.Unit,
 ul:  blas.Upper,
 tA:  blas.Trans,
 ans: []float64{3, 22, 66},
},
{
 n: 3,
 a: []float64{
  {5, 0, 0},
  {6, 9, 0},
  {7, 10, 13},
 },
 x:   []float64{3, 4, 5},
 d:   blas.NonUnit,
```

```
  ul:  blas.Lower,
  tA:  blas.Trans,
  ans: []float64{74, 86, 65},
 },
} {
 incTest := func(incX, extra int) {
  aFlat := flatten(test.a)
  x := makeIncremented(test.x, incX, extra)
  blasser.Dtrmv(test.ul, test.tA, test.d, test.n, aFlat, test.n, x, incX)
  ans := makeIncremented(test.ans, incX, extra)
  if !floats.EqualApprox(x, ans, 1e-14) {
   t.Errorf("Case %v, idx %v: Want %v, got %v.", i, incX, ans, x)
  }
 }
 incTest(1, 3)
 incTest(-3, 3)
 incTest(4, 3)
}
}
package widget

import (
 "gioui.org/gesture"
 "gioui.org/layout"
)

type CheckBox struct {
 click   gesture.Click
 checked bool
}

func (c *CheckBox) SetChecked(value bool) {
 c.checked = value
}

func (c *CheckBox) Checked(gtx *layout.Context) bool {
 for _, e := range c.click.Events(gtx) {
  switch e.Type {
  case gesture.TypeClick:
   c.checked = !c.checked
  }
 }
 return c.checked
}

func (c *CheckBox) Layout(gtx *layout.Context) {
 c.click.Add(gtx.Ops)
}
```

```
graph{SU}
// Copyright 2015 The Gonum Authors. All rights reserved.
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// license that can be found in the LICENSE file.

package topo

import (
 "reflect"
 "sort"
 "testing"

 "gonum.org/v1/gonum/graph"
 "gonum.org/v1/gonum/graph/internal/ordered"
 "gonum.org/v1/gonum/graph/simple"
)

var undirectedCyclesInTests = []struct {
 g    []intset
 want [][][]int64
}{
 {
  g: []intset{
   0:  linksTo(1, 2),
   1:  linksTo(2, 4, 5, 9),
   2:  linksTo(4, 7, 9),
   3:  linksTo(5),
   4:  linksTo(8),
   5:  linksTo(7, 8),
   6:  nil,
   7:  nil,
   8:  nil,
   9:  nil,
   10: linksTo(11, 12),
   11: linksTo(12),
   12: nil,
  },
  want: [][][]int64{
   {
    {0, 1, 2, 0},
    {1, 2, 7, 5, 1},
    {1, 2, 9, 1},
    {1, 4, 8, 5, 1},
    {2, 4, 8, 5, 7, 2},
    {10, 11, 12, 10},
   },
   {
    {0, 1, 2, 0},
```

```
    {1, 2, 4, 1},
    {1, 2, 7, 5, 1},
    {1, 2, 9, 1},
    {1, 4, 8, 5, 1},
    {10, 11, 12, 10},
   },
   {
    {0, 1, 2, 0},
    {1, 2, 4, 1},
    {1,
 2, 9, 1},
    {1, 4, 8, 5, 1},
    {2, 4, 8, 5, 7, 2},
    {10, 11, 12, 10},
   },
   {
    {0, 1, 2, 0},
    {1, 2, 4, 1},
    {1, 2, 7, 5, 1},
    {1, 2, 9, 1},
    {2, 4, 8, 5, 7, 2},
    {10, 11, 12, 10},
   },
  },
 },
}

func TestUndirectedCyclesIn(t *testing.T) {
 for i, test := range undirectedCyclesInTests {
  g := simple.NewUndirectedGraph()
  g.AddNode(simple.Node(-10)) // Make sure we test graphs with sparse IDs.
  for u, e := range test.g {
   // Add nodes that are not defined by an edge.
   if g.Node(int64(u)) == nil {
    g.AddNode(simple.Node(u))
   }
   for v := range e {
    g.SetEdge(simple.Edge{F: simple.Node(u), T: simple.Node(v)})
   }
  }
  cycles := UndirectedCyclesIn(g)
  var got [][]int64
  if cycles != nil {
   got = make([][]int64, len(cycles))
  }
  // Canonicalise the cycles.
  for j, c := range cycles {
   ids := make([]int64, len(c))
```

```
  for k, n := range canonicalise(c[:len(c)-1]) {
   ids[k] = n.ID()
  }
  ids[len(ids)-1] = ids[0]
  got[j] = ids
 }
 sort.Sort(ordered.BySliceValues(got))
 var
matched bool
 for _, want := range test.want {
  if reflect.DeepEqual(got, want) {
   matched = true
   break
  }
 }
 if !matched {
  t.Errorf("unexpected paton result for %d:\n\tgot:%#v\n\twant from:%#v", i, got, test.want)
 }
}
}

// canonicalise returns the cycle path c cyclicly permuted such that
// the first element has the lowest ID and then conditionally
// reversed so that the second element has the lowest possible
// neighbouring ID.
// c lists each node only onces - the final node must not be a
// reiteration of the first node.
func canonicalise(c []graph.Node) []graph.Node {
 if len(c) < 2 {
  return c
 }
 idx := 0
 min := c[0].ID()
 for i, n := range c[1:] {
  if id := n.ID(); id < min {
   idx = i + 1
   min = id
  }
 }
 if idx != 0 {
  c = append(c[idx:], c[:idx]...)
 }
 if c[len(c)-1].ID() < c[1].ID() {
  ordered.Reverse(c[1:])
 }
 return c
}
```

```
graph{{Gr_}{Gr_{{Gr_}{Gr_{{Gr_}{Gr_}}{{Gr_}{Gr_{{Gr_}{Gr_}}Gr_}}}}}}
graph{{{{{DigrJ}DigrJ}DigrT}}}
digraph{B:w->D:s J:w H:s J:w}
// +build !js

package gl

type (
 Buffer       struct{ V uint }
 Framebuffer  struct{ V uint }
 Program      struct{ V uint }
 Renderbuffer struct{ V uint }
 Shader       struct{ V uint }
 Texture      struct{ V uint }
 Query        struct{ V uint }
 Uniform      struct{ V int }
 Object       struct{ V uint }
)

func (u Uniform) Valid() bool {
 return u.V != -1
}

func (p Program) Valid() bool {
 return p.V != 0
}

func (s Shader) Valid() bool {
 return s.V != 0
}

func (t Texture) Valid() bool {
 return t.V != 0
}

func (t Texture) Equal(t2 Texture) bool {
 return t == t2
}
graph{{St_{St_}{St_}St_}{St_}St_}
graph{"\\\
```

graph{{{{__________{__________}}__{_________{__________}}__{_____________}}__{__________}}}
graph{{__{_M__O__Z_B___}}}
graph{Stric{Stric-9Stric}}
graph{DiGraphd{{DiGraphg}{DiGraphg}{DiGraphg}DiGraphg}}
graph{{{{{{G}G}G}G}}}
graph{{{{{DI}{DI}DI{{{DI}DI}}}DI}}}
mem

[![GoDoc](https://godoc.org/github.com/smasher164/mem?status.svg)](https://godoc.org/github.com/smasher164/mem)
[![Build Status](https://travis-ci.org/smasher164/mem.svg?branch=master)](https://travis-ci.org/smasher164/mem)

Package mem implements a memory allocator and deallocator.
It currently uses mmap on unix and VirtualAlloc on windows
to request pages of memory from the operating system, and
munmap and VirtualFree to release pages of memory to the
operating system. The allocator uses a first-fit algorithm
on a singly-linked free list of blocks. Blocks are divided
into sets called arenas, which correspond to the chunk of
memory mapped from the operating system. When all of the
blocks in a set are freed, the arena is unmapped.

```
// Alloc allocates size bytes of memory, and returns a pointer to it.
// It is goroutine-safe and attempts to preserve the semantics of
// POSIX libc's malloc. However, Alloc panics if an error occurs when
// requesting more memory from the operating
 system.
func Alloc(size uint) unsafe.Pointer

// Free deallocates the memory pointed to by p. It is goroutine-safe
// and attempts to preserve the semantics of POSIX libc's free.
// However, Free panics if an error occurs when releasing memory to
// the operating system.
func Free(p unsafe.Pointer)
```
Why?

I am working on a rudimentary language interpreter for which I want
to implement my own garbage collection algorithm in Go. Also, this
is a good opportunity for me to brush up on memory allocation
techniques.

Should I use this?

If you want to? _()_/ It's passed all the tests I've run so far.
But don't hold me liable if your multi-million dollar production
workload comes crashing down! Instead, file an issue. :)

What can I do to help?

Why thank you for offering! I am really interested in exploring
more efficient memory allocation techniques, like using a
best-fit algorithm, using a doubly-linked list for constant-time
cleanup, segregated lists to divide allocations
 of different
size classes, and buddy allocation. I would also like to improve
test quality by testing edge cases and platform-specific eccentricities.
graph{{{{SubGr}{SubGr}}}SubGr}
graph{Nodeh}
graph{dir{dir{dir}{dir{dih{di}}dir}}}
graph{{Dib}Dia}
graph{{edg3{{{{{edg3}{edg3}{edg3}}}edg5}}}}}
graph{{EdO""EdP}EdP{EdO""EdP{EdO""EdP}EdP{EdO""EdP}}}
graph{""[Grap8=""]}
graph{{Dr{{D{D{D{}D}D}}D{D{}D}D}}}
graph{{STRI_}}
graph{E}
digraph{h[r=ed]}
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// license that can be found in the LICENSE file.

package gonum

import (
 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/lapack"
)

// Dorgqr generates an mn matrix Q with orthonormal columns defined by the
// product of elementary reflectors
// Q = H_0 * H_1 * ... * H_{k-1}
// as computed by Dgeqrf.
// Dorgqr is the blocked version of Dorg2r that makes greater use of level-3 BLAS
// routines.
//
// The length of tau must be at least k, and the length of work must be at least n.
// It also must be that 0 <= k <= n and 0 <= n <= m.
//
// work is temporary storage, and lwork specifies the usable memory length. At
// minimum, lwork >= n, and the amount of blocking is limited by the usable
// length. If lwork == -1, instead of computing Dorgqr the optimal work length
// is stored into work[0].
//
// Dorgqr will panic if the conditions on input values are not met.

```
//
// Dorgqr is
 an internal routine. It is exported for testing purposes.
func (impl Implementation) Dorgqr(m, n, k int, a []float64, lda int, tau, work []float64, lwork int) {
 switch {
 case m < 0:
  panic(mLT0)
 case n < 0:
  panic(nLT0)
 case n > m:
  panic(nGTM)
 case k < 0:
  panic(kLT0)
 case k > n:
  panic(kGTN)
 case lda < max(1, n) && lwork != -1:
  // Normally, we follow the reference and require the leading
  // dimension to be always valid, even in case of workspace
  // queries. However, if a caller provided a placeholder value
  // for lda (and a) when doing a workspace query that didn't
  // fulfill the condition here, it would cause a panic. This is
  // exactly what Dgesvd does.
  panic(badLdA)
 case lwork < max(1, n) && lwork != -1:
  panic(badLWork)
 case len(work) < max(1, lwork):
  panic(shortWork)
 }

 if n == 0 {
  work[0] = 1
  return
 }

 nb := impl.Ilaenv(1, "DORGQR", " ", m, n, k, -1)
 // work is treated as an nnb matrix
 if lwork == -1 {
  work[0] = float64(n * nb)
  return
 }

 switch
 {
 case len(a) < (m-1)*lda+n:
  panic(shortA)
 case len(tau) < k:
  panic(shortTau)
 }
```

```
nbmin := 2 // Minimum block size
var nx int // Crossover size from blocked to unbloked code
iws := n   // Length of work needed
var ldwork int
if 1 < nb && nb < k {
 nx = max(0, impl.Ilaenv(3, "DORGQR", " ", m, n, k, -1))
 if nx < k {
  ldwork = nb
  iws = n * ldwork
  if lwork < iws {
   nb = lwork / n
   ldwork = nb
   nbmin = max(2, impl.Ilaenv(2, "DORGQR", " ", m, n, k, -1))
  }
 }
}
var ki, kk int
if nbmin <= nb && nb < k && nx < k {
 // The first kk columns are handled by the blocked method.
 ki = ((k - nx - 1) / nb) * nb
 kk = min(k, ki+nb)
 for i := 0; i < kk; i++ {
  for j := kk; j < n; j++ {
   a[i*lda+j] = 0
  }
 }
}
if kk < n {
 // Perform the operation on colums kk to the end.
 impl.Dorg2r(m-kk, n-kk, k-kk, a[kk*lda+kk:], lda, tau[kk:], work)
}
if kk > 0 {
 // Perform the operation on column-blocks.
 for i := ki; i >= 0; i -= nb {
  ib
:= min(nb, k-i)
  if i+ib < n {
   impl.Dlarft(lapack.Forward, lapack.ColumnWise,
    m-i, ib,
    a[i*lda+i:], lda,
    tau[i:],
    work, ldwork)

   impl.Dlarfb(blas.Left, blas.NoTrans, lapack.Forward, lapack.ColumnWise,
    m-i, n-i-ib, ib,
    a[i*lda+i:], lda,
    work, ldwork,
```

```
    a[i*lda+i+ib:], lda,
    work[ib*ldwork:], ldwork)
   }
   impl.Dorg2r(m-i, ib, ib, a[i*lda+i:], lda, tau[i:], work)
   // Set rows 0:i-1 of current block to zero.
   for j := i; j < i+ib; j++ {
    for l := 0; l < i; l++ {
     a[l*lda+j] = 0
    }
   }
  }
 }
 work[0] = float64(iws)
}
graph{{SubGra_}}
// Code generated by "go generate gonum.org/v1/gonum/blas/gonum; DO NOT EDIT.

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// license that can be found in the LICENSE file.

package gonum

import (
 "gonum.org/v1/gonum/internal/asm/f32"
)

// Dsdot computes the dot product of the two vectors
//  \sum_i x[i]*y[i]
//
// Float32 implementations are autogenerated and not directly tested.
func (Implementation) Dsdot(n int, x []float32, incX int, y []float32, incY int) float64 {
 if incX == 0 {
  panic(zeroIncX)
 }
 if incY == 0 {
  panic(zeroIncY)
 }
 if n <= 0 {
  if n == 0 {
   return 0
  }
  panic(nLT0)
 }
 if incX == 1 && incY == 1 {
  if len(x) < n {
   panic(shortX)
  }
```

```
 if len(y) < n {
  panic(shortY)
 }
 return f32.DdotUnitary(x[:n], y[:n])
}
var ix, iy int
if incX < 0 {
 ix = (-n + 1) * incX
}
if incY < 0 {
 iy = (-n + 1) * incY
}
if ix >= len(x) || ix+(n-1)*incX >= len(x) {
 panic(shortX)
}
if iy >=
len(y) || iy+(n-1)*incY >= len(y) {
 panic(shortY)
}
return f32.DdotInc(x, y, uintptr(n), uintptr(incX), uintptr(incY), uintptr(ix), uintptr(iy))
}
graph{{{subGG{{subGG}subGT}subGG}}subGG}
graph{{Gr}Gr}
graph{GRAPp{GRAPp{GRAPe}}}
graph{edg_{edg_}}
graph{DigraG}
Graph{{subr}{subu}}
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// license that can be found in the LICENSE file.

// +build go1.12

package gonum

import (
 "fmt"
 "runtime/debug"
)

const root = "gonum.org/v1/gonum"

// Version returns the version of Gonum and its checksum. The returned
// values are only valid in binaries built with module support.
//
// If a replace directive exists in the Gonum go.mod, the replace will
// be reported in the version in the following format:
//  "version=>[replace-path] [replace-version]"
```

```
// and the replace sum will be returned in place of the original sum.
//
// The exact version format returned by Version may change in future.
func Version() (version, sum string) {
 b, ok := debug.ReadBuildInfo()
 if !ok {
  return "", ""
 }
 for _, m := range b.Deps {
  if m.Path == root {
   if m.Replace != nil {
    switch {
    case m.Replace.Version != "" && m.Replace.Path != "":
     return fmt.Sprintf("%s=>%s %s",
 m.Version, m.Replace.Path, m.Replace.Version), m.Replace.Sum
    case m.Replace.Version != "":
     return fmt.Sprintf("%s=>%s", m.Version, m.Replace.Version), m.Replace.Sum
    case m.Replace.Path != "":
     return fmt.Sprintf("%s=>%s", m.Version, m.Replace.Path), m.Replace.Sum
    default:
     return m.Version + "*", m.Sum + "*"
    }
   }
   return m.Version, m.Sum
  }
 }
 return "", ""
}
graph{eD""eD}
graph{SUBGRA0{{{SUBGRA5{SUBGRA0}}{SUBGRA0{{SUBGRA5{SUBGRA0}}}}}}}
graph{NO{{NO}NO}}
graph{{subgrap_}{subgrap_}}
graph {e[e=x]stu[e=e]{e[l=""]ne ne ne}grae nu[e=d,sty=d,r=y]""""""ne--e--e--""[l=""n=1.00]""--e[l=""n=1.00]e--
ne--""[l=""n=1.00]""--stu[l=""n=1.00]stu--grae stu--ne stu--nu stu--""[l=""n=1.00]""--e[l=""n=1.00]l"\n\O"}
graph{SUBG_{SUBG_}{SUBG_}{SUBG_}}
// SPDX-License-Identifier: Unlicense OR MIT

package fling

import "testing"

func TestDecomposeQR(t *testing.T) {
 A := &matrix{
  rows: 3, cols: 3,
  data: []float32{
   12, 6, -4,
   -51, 167, 24,
   4, -68, -41,
```

```
 },
 }
 Q, Rt, ok := decomposeQR(A)
 if !ok {
  t.Fatal("decomposeQR failed")
 }
 R := Rt.transpose()
 QR := Q.mul(R)
 if !A.approxEqual(QR) {
  t.Log("A\n", A)
  t.Log("Q\n", Q)
  t.Log("R\n", R)
  t.Log("QR\n", QR)
  t.Fatal("Q*R not approximately equal to A")
 }
}

func TestFit(t *testing.T) {
 X := []float32{-1, 0, 1}
 Y := []float32{2, 0, 2}

 got, ok := polyFit(X, Y)
 if !ok {
  t.Fatal("polyFit failed")
 }
 want := coefficients{0, 0, 2}
 if !got.approxEqual(want) {
  t.Fatalf("polyFit: got %v want %v", got, want)
 }
}
graph{"\I\I\0\I\#\3\I\3\3\I\#\3\I\3\I\#\I\#"}
graph{{{{edgg}{edgg}edgg}edgg}edgh{{{{edgg}edgg}edgg}edgw}}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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// license that can be found in the LICENSE file.

package unit

import (
 "fmt"
 "testing"
)

func TestMagneticFluxFormat(t *testing.T) {
 for _, test := range []struct {
  value  MagneticFlux
```

```
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 Wb"},
  {1.23456789, "%.1v", "1 Wb"},
  {1.23456789, "%20.1v", "               1 Wb"},
  {1.23456789, "%20v", "       1.23456789 Wb"},
  {1.23456789, "%1v", "1.23456789 Wb"},
  {1.23456789, "%#v", "unit.MagneticFlux(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.MagneticFlux=1.23456789 Wb)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
graph{{{digrr{{digrr}digrr}{digrr}}}{{digrr}{digrr{{digrr}{digrr}{digrr}}{{{}}}}}{{digrr}}{{digrr}{digrr{{}{}
}{digrr}}}{{digrr}{digrr}}}
graph{{{Digw{Digz{{}}}{Digz{}}{Digz{{{{<>}Digw{Digz}}}}}{{{}{{Digw{Digz}{}}}}}{Digz{{<>{{}{}Di
gw}}}}}{{}}}}
graph{{{grapJ{grapQ}}}}
graph s{}
graph{{{diGE{diGE}{diGE}}}}
graph{Digrap_}
graph{{{{Stri}}}Stri}
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// license that can be found in the LICENSE file.

package path

import (
 "math"
 "reflect"
 "sort"
 "testing"

 "gonum.org/v1/gonum/graph"
 "gonum.org/v1/gonum/graph/internal/ordered"
 "gonum.org/v1/gonum/graph/path/internal/testgraphs"
)

func TestJohnsonAllPaths(t *testing.T) {
 for _, test := range testgraphs.ShortestPathTests {
  g := test.Graph()
  for _, e := range test.Edges {
   g.SetWeightedEdge(e)
```

```
 }

 pt, ok := JohnsonAllPaths(g.(graph.Graph))
 if test.HasNegativeCycle {
  if ok {
   t.Errorf("%q: expected negative cycle", test.Name)
  }
  continue
 }
 if !ok {
  t.Fatalf("%q: unexpected negative cycle", test.Name)
 }

 // Check all random paths returned are OK.
 for i := 0; i < 10; i++ {
  p, weight, unique := pt.Between(test.Query.From().ID(), test.Query.To().ID())
  if weight != test.Weight {
   t.Errorf("%q: unexpected weight from Between: got:%f
want:%f",
    test.Name, weight, test.Weight)
  }
  if weight := pt.Weight(test.Query.From().ID(), test.Query.To().ID()); weight != test.Weight {
   t.Errorf("%q: unexpected weight from Weight: got:%f want:%f",
    test.Name, weight, test.Weight)
  }
  if unique != test.HasUniquePath {
   t.Errorf("%q: unexpected number of paths: got: unique=%t want: unique=%t",
    test.Name, unique, test.HasUniquePath)
  }

  var got []int64
  for _, n := range p {
   got = append(got, n.ID())
  }
  ok := len(got) == 0 && len(test.WantPaths) == 0
  for _, sp := range test.WantPaths {
   if reflect.DeepEqual(got, sp) {
    ok = true
    break
   }
  }
  if !ok {
   t.Errorf("%q: unexpected shortest path:\ngot: %v\nwant from:%v",
    test.Name, p, test.WantPaths)
  }
 }

 np, weight, unique := pt.Between(test.NoPathFor.From().ID(), test.NoPathFor.To().ID())
```

```
 if np != nil || !math.IsInf(weight, 1) || unique {
  t.Errorf("%q: unexpected path:\ngot: path=%v weight=%f unique=%t\nwant:path=<nil>
weight=+Inf unique=false",
   test.Name, np, weight, unique)
 }

 paths, weight := pt.AllBetween(test.Query.From().ID(), test.Query.To().ID())
 if weight != test.Weight {
  t.Errorf("%q: unexpected weight from Between: got:%f want:%f",
   test.Name, weight, test.Weight)
 }

 var got [][]int64
 if len(paths) != 0 {
  got = make([][]int64, len(paths))
 }
 for i, p := range paths {
  for _, v := range p {
   got[i] = append(got[i], v.ID())
  }
 }
 sort.Sort(ordered.BySliceValues(got))
 if !reflect.DeepEqual(got, test.WantPaths) {
  t.Errorf("testing %q: unexpected shortest paths:\ngot: %v\nwant:%v",
   test.Name, got, test.WantPaths)
 }

 nps, weight := pt.AllBetween(test.NoPathFor.From().ID(), test.NoPathFor.To().ID())
 if nps != nil || !math.IsInf(weight, 1) {
  t.Errorf("%q: unexpected path:\ngot: paths=%v weight=%f\nwant:path=<nil> weight=+Inf",
   test.Name, nps, weight)
 }
}
}
graph{{{{{GrI}}GrH{GrI}}GrH}}
graph{{STR}STR}
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// Package ordered provides common sort ordering types.
package ordered // import "gonum.org/v1/gonum/graph/internal/ordered"
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package gonum
```

```
import "gonum.org/v1/gonum/blas"

// Dormr2 multiplies a general matrix C by an orthogonal matrix from a RQ factorization
// determined by Dgerqf.
//  C = Q * C   if side == blas.Left and trans == blas.NoTrans
//  C = Q * C  if side == blas.Left and trans == blas.Trans
//  C = C * Q   if side == blas.Right and trans == blas.NoTrans
//  C = C * Q  if side == blas.Right and trans == blas.Trans
// If side == blas.Left, a is a matrix of size km, and if side == blas.Right
// a is of size kn.
//
// tau contains the Householder factors and is of length at least k and this function
// will panic otherwise.
//
// work is temporary storage of length at least n if side == blas.Left
// and at least m if side == blas.Right and this function will panic otherwise.
//
// Dormr2 is an internal routine. It is exported for testing
 purposes.
func (impl Implementation) Dormr2(side blas.Side, trans blas.Transpose, m, n, k int, a []float64, lda int, tau, c
[]float64, ldc int, work []float64) {
 left := side == blas.Left
 nq := n
 nw := m
 if left {
  nq = m
  nw = n
 }
 switch {
 case !left && side != blas.Right:
  panic(badSide)
 case trans != blas.NoTrans && trans != blas.Trans:
  panic(badTrans)
 case m < 0:
  panic(mLT0)
 case n < 0:
  panic(nLT0)
 case k < 0:
  panic(kLT0)
 case left && k > m:
  panic(kGTM)
 case !left && k > n:
  panic(kGTN)
 case lda < max(1, nq):
  panic(badLdA)
 case ldc < max(1, n):
  panic(badLdC)
 }
```

```
// Quick return if possible.
if m == 0 || n == 0 || k == 0 {
 return
}

switch {
case len(a) < (k-1)*lda+nq:
 panic(shortA)
case len(tau) < k:
 panic(shortTau)
case len(c) < (m-1)*ldc+n:
 panic(shortC)
case len(work) < nw:
 panic(shortWork)
}

if left {
 if trans == blas.NoTrans {
  for i := k - 1; i >= 0; i-- {
   aii := a[i*lda+(m-k+i)]
   a[i*lda+(m-k+i)] = 1
   impl.Dlarf(side,
m-k+i+1, n, a[i*lda:], 1, tau[i], c, ldc, work)
   a[i*lda+(m-k+i)] = aii
  }
  return
 }
 for i := 0; i < k; i++ {
  aii := a[i*lda+(m-k+i)]
  a[i*lda+(m-k+i)] = 1
  impl.Dlarf(side, m-k+i+1, n, a[i*lda:], 1, tau[i], c, ldc, work)
  a[i*lda+(m-k+i)] = aii
 }
 return
}
if trans == blas.NoTrans {
 for i := 0; i < k; i++ {
  aii := a[i*lda+(n-k+i)]
  a[i*lda+(n-k+i)] = 1
  impl.Dlarf(side, m, n-k+i+1, a[i*lda:], 1, tau[i], c, ldc, work)
  a[i*lda+(n-k+i)] = aii
 }
 return
}
for i := k - 1; i >= 0; i-- {
 aii := a[i*lda+(n-k+i)]
 a[i*lda+(n-k+i)] = 1
```

```
  impl.Dlarf(side, m, n-k+i+1, a[i*lda:], 1, tau[i], c, ldc, work)
  a[i*lda+(n-k+i)] = aii
 }
}
graph{{subGrapc{}subGrapc}}
graph{{{DiGrapg}DiGrapg}DiGrapb}
graph{DiGraQ{DiGraU}{DiGraU}DiGraD}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "fmt"
 "testing"
)

func TestChargeFormat(t *testing.T) {
 for _, test := range []struct {
  value  Charge
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 C"},
  {1.23456789, "%.1v", "1 C"},
  {1.23456789, "%20.1v", "                 1 C"},
  {1.23456789, "%20v", "        1.23456789 C"},
  {1.23456789, "%1v", "1.23456789 C"},
  {1.23456789, "%#v", "unit.Charge(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Charge=1.23456789 C)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
graph{G}
graph{{dig0{{dig0}}}}
graph{{edd{eda{eda{edc}edc}}}}
graph{{STRI8{STRI8}STRI4}STRI4}
graph{{NodeW{}NodeN}}
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```

```
package testlapack

import (
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/floats"
)

type Dgelqfer interface {
 Dgelq2er
 Dgelqf(m, n int, a []float64, lda int, tau, work []float64, lwork int)
}

func DgelqfTest(t *testing.T, impl Dgelqfer) {
 const tol = 1e-12
 rnd := rand.New(rand.NewSource(1))
 for c, test := range []struct {
  m, n, lda int
 }{
  {10, 5, 0},
  {5, 10, 0},
  {10, 10, 0},
  {300, 5, 0},
  {3, 500, 0},
  {200, 200, 0},
  {300, 200, 0},
  {204, 300, 0},
  {1, 3000, 0},
  {3000, 1, 0},
  {10, 5, 30},
  {5, 10, 30},
  {10, 10, 30},
  {300, 5, 500},
  {3, 500, 600},
  {200, 200, 300},
  {300, 200, 300},
  {204, 300, 400},
  {1, 3000, 4000},
  {3000, 1, 4000},
 } {
  m := test.m
  n := test.n
  lda := test.lda
  if lda == 0 {
   lda = n
```

```
 }
 // Allocate mn matrix A and fill it with random numbers.
 a
:= make([]float64, m*lda)
 for i := range a {
  a[i] = rnd.NormFloat64()
 }
 // Store a copy of A for later comparison.
 aCopy := make([]float64, len(a))
 copy(aCopy, a)

 // Allocate a slice for scalar factors of elementary reflectors
 // and fill it with random numbers.
 tau := make([]float64, n)
 for i := 0; i < n; i++ {
  tau[i] = rnd.NormFloat64()
 }

 // Compute the expected result using unblocked LQ algorithm and
 // store it want.
 want := make([]float64, len(a))
 copy(want, a)
 impl.Dgelq2(m, n, want, lda, tau, make([]float64, m))

 for _, wl := range []worklen{minimumWork, mediumWork, optimumWork} {
  copy(a, aCopy)

  var lwork int
  switch wl {
  case minimumWork:
   lwork = m
  case mediumWork:
   work := make([]float64, 1)
   impl.Dgelqf(m, n, a, lda, tau, work, -1)
   lwork = int(work[0]) - 2*m
  case optimumWork:
   work := make([]float64, 1)
   impl.Dgelqf(m, n, a, lda, tau, work, -1)
   lwork = int(work[0])
  }
  work := make([]float64,
lwork)

  // Compute the LQ factorization of A.
  impl.Dgelqf(m, n, a, lda, tau, work, len(work))
  // Compare the result with Dgelq2.
  if !floats.EqualApprox(want, a, tol) {
   t.Errorf("Case %v, workspace type %v, unexpected result", c, wl)
```

```
   }
  }
 }
}
graph{SubGE{SubGZ{SubGE{SubGZ}}}}
graph{DiGr{DiGr{DiGr}}}
Graph{SUBG{SUBG{SUBG{SUBG{SUBG{SUBG{SUBG{SUBG}}}}}SUBG}}}
graph{{{digra}digra{digra}}}
graph{no{no{no{no}no}}no}
Graph{subgrapA{subgrapA{}subgrapA}{}{{subgrapA}{}}{{subgrapA}{{{{}}}}}{{}subgrapA}}
graph{--
[f=4][f=8][f=2][f=2][f=3][f=7][f=2][f=4][f=6][f=6][f=4][f=4][f=9][f=4][f=4][f=4][f=4][f=4][f=1][f=4][f=6][f=6][f=
4][f=1][f=6][f=1][f=2][f=7][f=8][f=2][f=2][f=3][f=7][f=2][f=4][f=6][f=6][f=4][f=4][f=9][f=4][f=4][f=4][f=4][f=4][
f=1][f=4][f=6][f=6][f=4][f=1][f=6][f=1][f=2][f=7][f=1][f=1][f=1][f=1][f=8][f=1][f=1][f=1][f=1][f=1][f=8][f=1][f=3
][f=5][f=1][f=1][f=1][f=9]}
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package quad

import (
 "math"
 "testing"

 "gonum.org/v1/gonum/floats"
 "gonum.org/v1/gonum/stat/distuv"
)

func TestFixed(t *testing.T) {
 for i, test := range []struct {
  f        func(float64) float64
  min, max float64
  n        []int
  tol      []float64
  ans      float64
 }{
  // Tolerances determined from intuition and a bit of post-hoc tweaking.
  {
   f:   func(x float64) float64 { return math.Exp(x) },
   min: -3,
   max: 5,
   n:   []int{3, 4, 6, 7, 15, 16, 300, 301},
   tol: []float64{5e-2, 5e-3, 5e-6, 1e-7, 1e-14, 1e-14, 1e-14, 1e-14},
   ans: math.Exp(5) - math.Exp(-3),
  },
  {
   f:   distuv.UnitNormal.Prob,
```

```
  min: math.Inf(-1),
  max: math.Inf(1),
  n:   []int{15, 16, 50, 51, 300, 301},
  tol: []float64{5e-3, 1e-3, 1e-7, 1e-7, 1e-14, 1e-14},
  ans: 1,
 },
 {
  f:   func(x float64) float64 { return
math.Exp(-x) },
  min: 5,
  max: math.Inf(1),
  n:   []int{15, 16, 50, 51, 300, 301},
  tol: []float64{5e-3, 1e-3, 1e-7, 1e-7, 1e-14, 1e-14},
  ans: math.Exp(-5),
 },
 {
  f:   func(x float64) float64 { return math.Exp(x) },
  min: math.Inf(-1),
  max: -5,
  n:   []int{15, 16, 50, 51, 300, 301},
  tol: []float64{5e-3, 1e-3, 1e-7, 1e-7, 1e-14, 1e-14},
  ans: math.Exp(-5),
 },
 {
  f:   func(x float64) float64 { return math.Exp(x) },
  min: 3,
  max: 3,
  n:   []int{15, 16, 50, 51, 300, 301},
  tol: []float64{0, 0, 0, 0, 0, 0},
  ans: 0,
 },
} {
 for j, n := range test.n {
  ans := Fixed(test.f, test.min, test.max, n, nil, 0)
  if !floats.EqualWithinAbsOrRel(ans, test.ans, test.tol[j], test.tol[j]) {
   t.Errorf("Case %d, n = %d: Mismatch. Want %v, got %v", i, n, test.ans, ans)
  }
  ans2 := Fixed(test.f, test.min, test.max, n, nil, 3)
  if !floats.EqualWithinAbsOrRel(ans2, test.ans, test.tol[j], test.tol[j]) {
   t.Errorf("Case %d, n = %d: Mismatch concurrent.
Want %v, got %v", i, n, test.ans, ans)
  }
 }
}
}

// legendreNonSingle wraps Legendre but does not implement FixedLocationSingle.
type legendreNonSingle struct {
```

```
 Legendre Legendre
}

func (l legendreNonSingle) FixedLocations(x, weight []float64, min, max float64) {
 l.Legendre.FixedLocations(x, weight, min, max)
}

func TestFixedNonSingle(t *testing.T) {
 // TODO(btracey): Add tests with infinite bounds when we have native support
 // for indefinite integrals.
 for i, test := range []struct {
  f        func(float64) float64
  min, max float64
  n        []int
  tol      []float64
  ans      float64
 }{
  // Tolerances determined from intuition and a bit of post-hoc tweaking.
  {
   f:   func(x float64) float64 { return math.Exp(x) },
   min: -3,
   max: 5,
   n:   []int{3, 4, 6, 7, 15, 16, 300, 301},
   tol: []float64{5e-2, 5e-3, 5e-6, 1e-7, 1e-14, 1e-14, 1e-14, 1e-14},
   ans: math.Exp(5) - math.Exp(-3),
  },
  {
   f:   func(x float64) float64 { return math.Exp(x) },
   min:
 3,
   max: 3,
   n:   []int{3, 4, 6, 7, 15, 16, 300, 301},
   tol: []float64{0, 0, 0, 0, 0, 0, 0, 0},
   ans: 0,
  },
 } {
  for j, n := range test.n {
   ans := Fixed(test.f, test.min, test.max, n, legendreNonSingle{}, 0)
   if !floats.EqualWithinAbsOrRel(ans, test.ans, test.tol[j], test.tol[j]) {
    t.Errorf("Case = %d, n = %d: Mismatch. Want %v, got %v", i, n, test.ans, ans)
   }
   ans2 := Fixed(test.f, test.min, test.max, n, legendreNonSingle{}, 3)
   if !floats.EqualWithinAbsOrRel(ans2, test.ans, test.tol[j], test.tol[j]) {
    t.Errorf("Case = %d, n = %d: Mismatch concurrent. Want %v, got %v", i, n, test.ans, ans)
   }
  }
 }
}
```

graph{subgraph{}subgraphd}

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SOFTWARE.
graph{"tedEdge Vertex OptEdge << astx.NewEdge(X[D], X[1], X[2]) >>\\\\"}
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// license that can be found in the LICENSE file.

```
package mathext

import "math"

const (
 logPi = 1.1447298858494001741434273513530587116472948 1 // http://oeis.org/A053510
)

// MvLgamma returns the log of the multivariate Gamma function. Dim
// must be greater than zero, and MvLgamma will return NaN if v < (dim-1)/2.
//
// See https://en.wikipedia.org/wiki/Multivariate_gamma_function for more
// information.
func MvLgamma(v float64, dim int) float64 {
 if dim < 1 {
  panic("mathext: negative dimension")
 }
 df := float64(dim)
 if v < (df-1)*0.5 {
  return math.NaN()
```

```
 }
 ans := df * (df - 1) * 0.25 * logPi
 for i := 1; i <= dim; i++ {
  lg, _ := math.Lgamma(v + float64(1-i)*0.5)
  ans += lg
 }
 return ans
}
graph{<e{\{\>}
graph{{{{Gra}Gra}}Gra}
graph{grapha{{grapha{{graphe}graphe}graphe}graphe}}
graph{DIGRC{DIGRC}}
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package network

import (
 "fmt"
 "math"
 "sort"
 "testing"

 "gonum.org/v1/gonum/floats"
 "gonum.org/v1/gonum/graph/simple"
)

var hitsTests = []struct {
 g   []set
 tol float64

 wantTol float64
 want    map[int64]HubAuthority
}{
 {
  // Example graph from http://www.cis.hut.fi/Opinnot/T-61.6020/2008/pagerank_hits.pdf page 8.
  g: []set{
   A: linksTo(B, C, D),
   B: linksTo(C, D),
   C: linksTo(B),
   D: nil,
  },
  tol: 1e-4,

  wantTol: 1e-4,
  want: map[int64]HubAuthority{
   A: {Hub: 0.7887, Authority: 0},
```

```
   B: {Hub: 0.5774, Authority: 0.4597},
   C: {Hub: 0.2113, Authority: 0.6280},
   D: {Hub: 0, Authority: 0.6280},
  },
 },
}

func TestHITS(t *testing.T) {
 for i, test := range hitsTests {
  g := simple.NewDirectedGraph()
  for u, e := range test.g {
   // Add nodes that are not defined by an edge.
   if g.Node(int64(u))
 == nil {
    g.AddNode(simple.Node(u))
   }
   for v := range e {
    g.SetEdge(simple.Edge{F: simple.Node(u), T: simple.Node(v)})
   }
  }
  got := HITS(g, test.tol)
  prec := 1 - int(math.Log10(test.wantTol))
  for n := range test.g {
   if !floats.EqualWithinAbsOrRel(got[int64(n)].Hub, test.want[int64(n)].Hub, test.wantTol, test.wantTol) {
    t.Errorf("unexpected HITS result for test %d:\ngot: %v\nwant:%v",
     i, orderedHubAuth(got, prec), orderedHubAuth(test.want, prec))
    break
   }
   if !floats.EqualWithinAbsOrRel(got[int64(n)].Authority, test.want[int64(n)].Authority, test.wantTol, test.wantTol) {
    t.Errorf("unexpected HITS result for test %d:\ngot: %v\nwant:%v",
     i, orderedHubAuth(got, prec), orderedHubAuth(test.want, prec))
    break
   }
  }
 }
}

func orderedHubAuth(w map[int64]HubAuthority, prec int) []keyHubAuthVal {
 o := make(orderedHubAuthMap, 0, len(w))
 for k, v := range w {
  o = append(o, keyHubAuthVal{prec: prec, key: k, val: v})
 }
 sort.Sort(o)
 return
 o
}

type keyHubAuthVal struct {
```

```
 prec int
 key  int64
 val  HubAuthority
}

func (kv keyHubAuthVal) String() string {
 return fmt.Sprintf("%d:{H:%.*f, A:%.*f}",
  kv.key, kv.prec, kv.val.Hub, kv.prec, kv.val.Authority,
 )
}

type orderedHubAuthMap []keyHubAuthVal

func (o orderedHubAuthMap) Len() int           { return len(o) }
func (o orderedHubAuthMap) Less(i, j int) bool { return o[i].key < o[j].key }
func (o orderedHubAuthMap) Swap(i, j int)      { o[i], o[j] = o[j], o[i] }
      SUBROUTINE ZEXP(AR, AI, BR, BI)
C***BEGIN PROLOGUE  ZEXP
C***REFER TO  ZBESH,ZBESI,ZBESJ,ZBESK,ZBESY,ZAIRY,ZBIRY
C
C     DOUBLE PRECISION COMPLEX EXPONENTIAL FUNCTION B=EXP(A)
C
C***ROUTINES CALLED  (NONE)
C***END PROLOGUE  ZEXP
      DOUBLE PRECISION AR, AI, BR, BI, ZM, CA, CB
      ZM = DEXP(AR)
      CA = ZM*DCOS(AI)
      CB = ZM*DSIN(AI)
      BR = CA
      BI = CB
      RETURN
      END
graph{"\}"}
graph{n_{n_}}
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// license that can be found in the LICENSE file.

package mathext

import (
 "gonum.org/v1/gonum/mathext/internal/cephes"
)

// GammaIncReg computes the regularized incomplete Gamma integral.
//  GammaIncReg(a,x) = (1/ (a)) \int_0^x e^{-t} t^{a-1} dt
// The input argument a must be positive and x must be non-negative or GammaIncReg
// will panic.
```

```
//
// See http://mathworld.wolfram.com/IncompleteGammaFunction.html
// or https://en.wikipedia.org/wiki/Incomplete_gamma_function for more detailed
// information.
func GammaIncReg(a, x float64) float64 {
 return cephes.Igam(a, x)
}

// GammaIncRegComp computes the complemented regularized incomplete Gamma integral.
//  GammaIncRegComp(a,x) = 1 - GammaIncReg(a,x)
//                  = (1/ (a)) \int_0^\infty e^{-t} t^{a-1} dt
// The input argument a must be positive and x must be non-negative or
// GammaIncRegComp will panic.
func GammaIncRegComp(a,
 x float64) float64 {
 return cephes.IgamC(a, x)
}

// GammaIncRegInv computes the inverse of the regularized incomplete Gamma integral. That is,
// it returns the x such that:
//  GammaIncReg(a, x) = y
// The input argument a must be positive and y must be between 0 and 1
// inclusive or GammaIncRegInv will panic. GammaIncRegInv should return a positive
// number, but can return NaN if there is a failure to converge.
func GammaIncRegInv(a, y float64) float64 {
 return gammaIncRegInv(a, y)
}

// GammaIncRegCompInv computes the inverse of the complemented regularized incomplete Gamma
// integral. That is, it returns the x such that:
//  GammaIncRegComp(a, x) = y
// The input argument a must be positive and y must be between 0 and 1
// inclusive or GammaIncRegCompInv will panic. GammaIncRegCompInv should return a
// positive number, but can return 0 even with non-zero y due to underflow.
func GammaIncRegCompInv(a, y float64) float64 {
 return cephes.IgamI(a, y)
}
graph{{GrG{GrG{}GrC}GrC}}
graph{{DigV}{DigV}DigP}
graph{{S_{{S_{}S_}S_{}S_}S_}}
digraph{e[l=<<"></></></></>>]}
graph{ED{ED{ED}ED}}
graph{N9{{N9{N9{N7{N9{{N9{N9{N7}}}N9{N7}}}}}}N9{N7}}}
      SUBROUTINE ZLOG(AR, AI, BR, BI, IERR)
C***BEGIN PROLOGUE  ZLOG
C***REFER TO  ZBESH,ZBESI,ZBESJ,ZBESK,ZBESY,ZAIRY,ZBIRY
C
C     DOUBLE PRECISION COMPLEX LOGARITHM B=CLOG(A)
```

```
C     IERR=0,NORMAL RETURN      IERR=1, Z=CMPLX(0.0,0.0)
C***ROUTINES CALLED  ZABS
C***END PROLOGUE  ZLOG
      DOUBLE PRECISION AR, AI, BR, BI, ZM, DTHETA, DPI, DHPI
      DOUBLE PRECISION ZABS
      DATA DPI , DHPI  / 3.14159265358979323846264338 3D+0,
     1                   1.57079632679489661923132169 6D+0/
C
      IERR=0
      IF (AR.EQ.0.0D+0) GO TO 10
      IF (AI.EQ.0.0D+0) GO TO 20
      DTHETA = DATAN(AI/AR)
      IF (DTHETA.LE.0.0D+0) GO TO 40
      IF (AR.LT.0.0D+0) DTHETA = DTHETA - DPI
      GO TO 50
   10 IF (AI.EQ.0.0D+0) GO TO 60
      BI = DHPI
      BR = DLOG(DABS(AI))
      IF (AI.LT.0.0D+0) BI = -BI
      RETURN
   20 IF (AR.GT.0.0D+0) GO TO 30
      BR = DLOG(DABS(AR))
      BI = DPI
      RETURN
   30 BR = DLOG(AR)
      BI = 0.0D+0
      RETURN
   40 IF (AR.LT.0.0D+0) DTHETA = DTHETA + DPI
   50 ZM = ZABS(CMPLX(AR,AI,kind=KIND(1.0D0)))
      BR = DLOG(ZM)
      BI = DTHETA
      RETURN
   60 CONTINUE
      IERR=1
      RETURN
      END
graph{GRAP_}
graph{{Graph[]Graph[]}Graph[]{Graph[][]Graph[]}Graph[]{Graph[]Graph[]}Graph[]}
graph{I}
graph{"\"\"\\\"\"\\\\"}
graph {{e_}}
graph{{{Sub1}{Sub1}Sub5}{Sub1}{Sub1}Sub5}
graph{Stric5{{Stric5{Stric5{Stric5}}Stric5}}}
graph{{<<=><=>>}}
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```

```
package gonum

import (
 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
)

// Dtrtri computes the inverse of a triangular matrix, storing the result in place
// into a. This is the BLAS level 3 version of the algorithm which builds upon
// Dtrti2 to operate on matrix blocks instead of only individual columns.
//
// Dtrtri will not perform the inversion if the matrix is singular, and returns
// a boolean indicating whether the inversion was successful.
func (impl Implementation) Dtrtri(uplo blas.Uplo, diag blas.Diag, n int, a []float64, lda int) (ok bool) {
 switch {
 case uplo != blas.Upper && uplo != blas.Lower:
  panic(badUplo)
 case diag != blas.NonUnit && diag != blas.Unit:
  panic(badDiag)
 case n < 0:
  panic(nLT0)
 case lda < max(1, n):
  panic(badLdA)
 }

 if n == 0 {
  return true
 }

 if len(a) < (n-1)*lda+n
 {
  panic(shortA)
 }

 if diag == blas.NonUnit {
  for i := 0; i < n; i++ {
   if a[i*lda+i] == 0 {
    return false
   }
  }
 }

 bi := blas64.Implementation()

 nb := impl.Ilaenv(1, "DTRTRI", "UD", n, -1, -1, -1)
 if nb <= 1 || nb > n {
  impl.Dtrti2(uplo, diag, n, a, lda)
  return true
```

```
 }
 if uplo == blas.Upper {
  for j := 0; j < n; j += nb {
   jb := min(nb, n-j)
   bi.Dtrmm(blas.Left, blas.Upper, blas.NoTrans, diag, j, jb, 1, a, lda, a[j:], lda)
   bi.Dtrsm(blas.Right, blas.Upper, blas.NoTrans, diag, j, jb, -1, a[j*lda+j:], lda, a[j:], lda)
   impl.Dtrti2(blas.Upper, diag, jb, a[j*lda+j:], lda)
  }
  return true
 }
 nn := ((n - 1) / nb) * nb
 for j := nn; j >= 0; j -= nb {
  jb := min(nb, n-j)
  if j+jb <= n-1 {
   bi.Dtrmm(blas.Left, blas.Lower, blas.NoTrans, diag, n-j-jb, jb, 1, a[(j+jb)*lda+j+jb:], lda, a[(j+jb)*lda+j:], lda)
   bi.Dtrsm(blas.Right, blas.Lower, blas.NoTrans, diag, n-j-jb, jb, -1, a[j*lda+j:], lda, a[(j+jb)*lda+j:], lda)
  }
  impl.Dtrti2(blas.Lower, diag,
 jb, a[j*lda+j:], lda)
 }
 return true
}
graph{"\\\\
\\\\
sssssss\
\\\\
sssssssss}\\\\\\\\\\\\\\\\\\\\\\\s}\\\\\\\\\\\\\\\\\\\\\\\\"}
graph{{DiGrap_}{DiGrap_}}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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// license that can be found in the LICENSE file.

package unit

import (
 "errors"
 "fmt"
 "math"
 "unicode/utf8"
)

// Torque represents a torque in Newton metres.
type Torque float64

const Newtonmetre Torque = 1
```

```
// Unit converts the Torque to a *Unit
func (t Torque) Unit() *Unit {
 return New(float64(t), Dimensions{
  LengthDim: 2,
  MassDim:   1,
  TimeDim:   -2,
 })
}

// Torque allows Torque to implement a Torquer interface
func (t Torque) Torque() Torque {
 return t
}

// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (t *Torque) From(u Uniter) error {
 if !DimensionsMatch(u, Newtonmetre) {
  *t = Torque(math.NaN())
  return errors.New("Dimension mismatch")
 }
 *t = Torque(u.Unit().Value())
 return nil
}

func (t Torque) Format(fs fmt.State,
 c rune) {
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", t, float64(t))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " N m"
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(t))
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(t))
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(t))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(t))
  }
```

```
  fmt.Fprint(fs, unit)
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g N m)", c, t, float64(t))
 }
}
graph{{{{Digraa}{Digraa}Digrag}}}
graph{{GG GB GP}}
graph{{d_{d_}d_{d_}d_{{d_}{d_}}d_{{d_{d_}d_{d_}d_{{d_}{d_}}d_}{d_}}d_}}
graph{{{NOD0}NOD0}NOD0}
graph{{diGrag{diGrag}}diGrai{diGrag}{diGrag}diGrai}
digraph{EB}
graph{digra_{digra_{{digra_{digra_{digra_}}}digra_{digra_{digra_{digra_}}}digra_}}}
graph{{{DIGRAPA}{DIGRAPA}DIGRAPA{DIGRAPA}{DIGRAPA}DIGRAPA}}
graph{{SUBGRp{SUBGRp}SUBGRp}}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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// license that can be found in the LICENSE file.

package unit

import (
 "fmt"
 "testing"
)

func TestTorqueFormat(t *testing.T) {
 for _, test := range []struct {
  value  Torque
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 N m"},
  {1.23456789, "%.1v", "1 N m"},
  {1.23456789, "%20.1v", "               1 N m"},
  {1.23456789, "%20v", "      1.23456789 N m"},
  {1.23456789, "%1v", "1.23456789 N m"},
  {1.23456789, "%#v", "unit.Torque(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Torque=1.23456789 N m)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
```

```
graph{subgrS}
graph{SubGrap}
graph{{{GRa{GRi}{GRa{GRi}}}}GRa}
graph{SubGE{SubGZ}}
graph{Digrap{{{Digrap}Digrap}{Digrap}{{Digrap}Digrap}{Digrap}Digrap}Digrap}
graph{{{{{DI}}DI}}}
graph{{""""9W}""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""_3_3VO1_
1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""_3_3VO1_1wgYc1YO0_irynklS5u4T4z
bq9VH7G1_ZAB_8tO9W}""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""
_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""""_3_3VO1_1wgYc8kRij8q8
_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4z
bq9VH7G1_ZAB_8tO9W}""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""
_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""_3_3VO1_1wgYc8kRij8q8_1
PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""""_
3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""_3_3VO1_1wgYc8kRij8q8_1P
yG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9
VH7G1_ZAB_8tO9W}""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""_3_
3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}"}}
graph{STRI{STRI}{STRI{STRI}STRI}STRI}
graph{{D{D{}D}}}
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// license that can be found in the LICENSE file.

package testlapack

import (
 "fmt"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
)

type Dlacpyer interface {
 Dlacpy(uplo blas.Uplo, m, n int, a []float64, lda int, b []float64, ldb int)
}

func DlacpyTest(t *testing.T, impl Dlacpyer) {
 rnd := rand.New(rand.NewSource(1))
 for _, uplo := range []blas.Uplo{blas.Upper, blas.Lower, blas.All} {
  for _, test := range []struct {
   m, n, lda, ldb int
  }{
   {3, 5, 0, 0},
   {5, 5, 0, 0},
   {7, 5, 0, 0},
```

```
 {3, 5, 10, 12},
 {5, 5, 10, 12},
 {7, 5, 10, 12},
} {
 m := test.m
 n := test.n
 lda := test.lda
 if lda == 0 {
  lda = n
 }
 ldb := test.ldb
 if ldb == 0 {
  ldb = n
 }
 a := make([]float64, m*lda)
 for i := range a {
  a[i] = rnd.Float64()
 }
 b := make([]float64, m*ldb)
 for i := range b {
  b[i] = rnd.Float64()
 }
 impl.Dlacpy(uplo,
m, n, a, lda, b, ldb)
 equal := true
 switch uplo {
 case blas.Upper:
  for i := 0; i < m; i++ {
   for j := i; j < n; j++ {
    if b[i*ldb+j] != a[i*lda+j] {
     equal = false
     goto DoneCheck
    }
   }
  }
 case blas.Lower:
  for i := 0; i < m; i++ {
   for j := 0; j < min(i, n); j++ {
    if b[i*ldb+j] != a[i*lda+j] {
     equal = false
     goto DoneCheck
    }
   }
  }
 case blas.All:
  for i := 0; i < m; i++ {
   for j := 0; j < n; j++ {
```

```
      if b[i*ldb+j] != a[i*lda+j] {
       equal = false
       goto DoneCheck
      }
     }
    }
   }
  DoneCheck:
   if !equal {
    fmt.Println(blas.Lower)
    t.Errorf("Matrices not equal after copy. Uplo = %d, m = %d, n = %d", uplo, m, n)
   }
  }
 }
}
graph{DiGi{DiG}{DiG{DiG}DiG}DiG{DiG}{DiG{DiG}DiG}DiG}
graph{No{No}No{No}No{No}N{No{No}No{No}No{No}No{No}No}}
graph{Subg_{Subg_}}
graph{strih{strih{strih{strii}}}}
graph{{{{s}s{s}s}s}s}
digraph{h[l="=d]}"][l=" iri"][l=""][l=""]e->{}->s->a->s->r[e=d]}
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// +build bounds

package barneshut

const checkBounds = true
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package multi_test

import (
 "math"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/graph"
 "gonum.org/v1/gonum/graph/internal/set"
 "gonum.org/v1/gonum/graph/iterator"
 "gonum.org/v1/gonum/graph/multi"
 "gonum.org/v1/gonum/graph/testgraph"
)
```

```
func undirectedBuilder(nodes []graph.Node, edges []testgraph.WeightedLine, _, _ float64) (g graph.Graph, n
[]graph.Node, e []testgraph.Edge, s, a float64, ok bool) {
 seen := set.NewNodes()
 ug := multi.NewUndirectedGraph()
 for _, n := range nodes {
  seen.Add(n)
  ug.AddNode(n)
 }
 for _, edge := range edges {
  f := ug.Node(edge.From().ID())
  if f == nil {
   f = edge.From()
  }
  t := ug.Node(edge.To().ID())
  if t == nil {
   t = edge.To()
  }
  ce := multi.Line{F: f, T: t, UID: edge.ID()}
  seen.Add(ce.F)
  seen.Add(ce.T)
  e = append(e, ce)
  ug.SetLine(ce)
 }
 if len(seen)
 != 0 {
  n = make([]graph.Node, 0, len(seen))
 }
 for _, sn := range seen {
  n = append(n, sn)
 }
 return ug, n, e, math.NaN(), math.NaN(), true
}

func TestUndirected(t *testing.T) {
 t.Run("EdgeExistence", func(t *testing.T) {
  testgraph.EdgeExistence(t, undirectedBuilder)
 })
 t.Run("LineExistence", func(t *testing.T) {
  testgraph.LineExistence(t, directedBuilder, true)
 })
 t.Run("NodeExistence", func(t *testing.T) {
  testgraph.NodeExistence(t, undirectedBuilder)
 })
 t.Run("ReturnAdjacentNodes", func(t *testing.T) {
  testgraph.ReturnAdjacentNodes(t, undirectedBuilder, true)
 })
 t.Run("ReturnAllLines", func(t *testing.T) {
```

```
 testgraph.ReturnAllLines(t, undirectedBuilder, true)
})
t.Run("ReturnAllNodes", func(t *testing.T) {
 testgraph.ReturnAllNodes(t, undirectedBuilder, true)
})
t.Run("ReturnNodeSlice", func(t *testing.T) {
 testgraph.ReturnNodeSlice(t, undirectedBuilder, true)
})

t.Run("AddNodes", func(t *testing.T) {
 testgraph.AddNodes(t, multi.NewUndirectedGraph(),
100)
})
t.Run("AddArbitraryNodes", func(t *testing.T) {
 testgraph.AddArbitraryNodes(t,
  multi.NewUndirectedGraph(),
  testgraph.NewRandomNodes(100, 1, func(id int64) graph.Node { return multi.Node(id) }),
 )
})
t.Run("RemoveNodes", func(t *testing.T) {
 g := multi.NewUndirectedGraph()
 it := testgraph.NewRandomNodes(100, 1, func(id int64) graph.Node { return multi.Node(id) })
 for it.Next() {
  g.AddNode(it.Node())
 }
 it.Reset()
 rnd := rand.New(rand.NewSource(1))
 for it.Next() {
  u := it.Node()
  d := rnd.Intn(5)
  vit := g.Nodes()
  for d >= 0 && vit.Next() {
   v := vit.Node()
   d--
   g.SetLine(g.NewLine(u, v))
  }
 }
 testgraph.RemoveNodes(t, g)
})
t.Run("AddLines", func(t *testing.T) {
 testgraph.AddLines(t, 100,
  multi.NewUndirectedGraph(),
  func(id int64) graph.Node { return multi.Node(id) },
  true, // Can update nodes.
 )
})
t.Run("RemoveLines", func(t *testing.T) {
 g := multi.NewUndirectedGraph()
```

```
 it := testgraph.NewRandomNodes(100,
1, func(id int64) graph.Node { return multi.Node(id) })
 for it.Next() {
  g.AddNode(it.Node())
 }
 it.Reset()
 var lines []graph.Line
 rnd := rand.New(rand.NewSource(1))
 for it.Next() {
  u := it.Node()
  d := rnd.Intn(5)
  vit := g.Nodes()
  for d >= 0 && vit.Next() {
   v := vit.Node()
   d--
   l := g.NewLine(u, v)
   g.SetLine(l)
   lines = append(lines, l)
  }
 }
 rnd.Shuffle(len(lines), func(i, j int) {
  lines[i], lines[j] = lines[j], lines[i]
 })
 testgraph.RemoveLines(t, g, iterator.NewOrderedLines(lines))
})
}

func TestMaxID(t *testing.T) {
 g := multi.NewUndirectedGraph()
 nodes := make(map[graph.Node]struct{})
 for i := multi.Node(0); i < 3; i++ {
  g.AddNode(i)
  nodes[i] = struct{}{}
 }
 g.RemoveNode(int64(0))
 delete(nodes, multi.Node(0))
 g.RemoveNode(int64(2))
 delete(nodes, multi.Node(2))
 n := g.NewNode()
 g.AddNode(n)
 if g.Node(n.ID()) == nil {
  t.Error("added node does not exist in graph")
 }
 if _, exists := nodes[n]; exists
 {
  t.Errorf("Created already existing node id: %v", n.ID())
 }
}
```

```
// Test for issue #123 https://github.com/gonum/graph/issues/123
func TestIssue123UndirectedGraph(t *testing.T) {
 defer func() {
  if r := recover(); r != nil {
   t.Errorf("unexpected panic: %v", r)
  }
 }()
 g := multi.NewUndirectedGraph()

 n0 := g.NewNode()
 g.AddNode(n0)

 n1 := g.NewNode()
 g.AddNode(n1)

 g.RemoveNode(n0.ID())

 n2 := g.NewNode()
 g.AddNode(n2)
}
graph{digra}
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package gonum

import "gonum.org/v1/gonum/blas"

// Dgelq2 computes the LQ factorization of the mn matrix A.
//
// In an LQ factorization, L is a lower triangular mn matrix, and Q is an nn
// orthonormal matrix.
//
// a is modified to contain the information to construct L and Q.
// The lower triangle of a contains the matrix L. The upper triangular elements
// (not including the diagonal) contain the elementary reflectors. tau is modified
// to contain the reflector scales. tau must have length of at least k = min(m,n)
// and this function will panic otherwise.
//
// See Dgeqr2 for a description of the elementary reflectors and orthonormal
// matrix Q. Q is constructed as a product of these elementary reflectors,
// Q = H_{k-1} * ... * H_1 * H_0.
//
// work is temporary storage of length at least m and this function will panic
 otherwise.
//
```

```
// Dgelq2 is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dgelq2(m, n int, a []float64, lda int, tau, work []float64) {
 switch {
 case m < 0:
  panic(mLT0)
 case n < 0:
  panic(nLT0)
 case lda < max(1, n):
  panic(badLdA)
 }

 // Quick return if possible.
 k := min(m, n)
 if k == 0 {
  return
 }

 switch {
 case len(a) < (m-1)*lda+n:
  panic(shortA)
 case len(tau) < k:
  panic(shortTau)
 case len(work) < m:
  panic(shortWork)
 }

 for i := 0; i < k; i++ {
  a[i*lda+i], tau[i] = impl.Dlarfg(n-i, a[i*lda+i], a[i*lda+min(i+1, n-1):], 1)
  if i < m-1 {
   aii := a[i*lda+i]
   a[i*lda+i] = 1
   impl.Dlarf(blas.Right, m-i-1, n-i,
    a[i*lda+i:], 1,
    tau[i],
    a[(i+1)*lda+i:], lda,
    work)
   a[i*lda+i] = aii
  }
 }
}
digraph {
 A [style=filled fillcolor=red]
}
graph{SubgE{SubgJ}}
graph{{{Digw{Digz{{{{{Digw{Digz}}}Digw{Digz}}}}}}}}
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```

```
package testlapack

import (
 "fmt"
 "math"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/floats"
)

type Dlassqer interface {
 Dlassq(n int, x []float64, incx int, scale, ssq float64) (float64, float64)
}

func DlassqTest(t *testing.T, impl Dlassqer) {
 const tol = 1e-14

 rnd := rand.New(rand.NewSource(1))
 for _, n := range []int{0, 1, 2, 3, 4, 5, 10} {
  for _, incx := range []int{1, 3} {
   name := fmt.Sprintf("n=%v,incx=%v", n, incx)

   // Allocate a slice of minimum length and fill it with
   // random numbers.
   x := make([]float64, max(0, 1+(n-1)*incx))
   for i := range x {
    x[i] = rnd.Float64()
   }

   // Fill the referenced elements of x and compute the
   // expected result in a non-sophisticated way.
   scale := rnd.Float64()
   ssq := rnd.Float64()
   want := scale * scale * ssq
   for i := 0;
 i < n; i++ {
    xi := rnd.NormFloat64()
    x[i*incx] = xi
    want += xi * xi
   }

   xCopy := make([]float64, len(x))
   copy(xCopy, x)

   // Update scale and ssq so that
```

```
   //  scale_out^2 * ssq_out = x[0]^2 + ... + x[n-1]^2 + scale_in^2*ssq_in
   scale, ssq = impl.Dlassq(n, x, incx, scale, ssq)
   if !floats.Equal(x, xCopy) {
    t.Fatalf("%v: unexpected modification of x", name)
   }

   // Check the result.
   got := scale * scale * ssq
   if math.Abs(got-want) >= tol {
    t.Errorf("%v: unexpected result; got %v, want %v", name, got, want)
   }
  }
 }
}
graph{{{gr}{gr}{gr}{gr}}gr{{gr}{gr}{gr}{gr}{gr}{gr}gr}}
graph{{{8.}9.{8.}9.}{8.}9.}
graph{{<<=>=<=>=<=>=>}<<=>=<=>=<=>=>}
graph{Digrapd}
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// license that can be found in the LICENSE file.

package testblas

import (
 "testing"

 "gonum.org/v1/gonum/blas"
)

type Dgbmver interface {
 Dgbmv(tA blas.Transpose, m, n, kL, kU int, alpha float64, a []float64, lda int, x []float64, incX int, beta float64, y
[]float64, incY int)
}

func DgbmvTest(t *testing.T, blasser Dgbmver) {
 for i, test := range []struct {
  tA     blas.Transpose
  m, n   int
  kL, kU int
  alpha  float64
  a      [][]float64
  lda    int
  x      []float64
  beta   float64
  y      []float64
  ans    []float64
 }{
```

```
{
 tA:    blas.NoTrans,
 m:     9,
 n:     6,
 lda:   4,
 kL:    2,
 kU:    1,
 alpha: 3.0,
 beta:  2.0,
 a: []([]float64{
  {5, 3, 0, 0, 0, 0},
  {-1, 2, 9, 0, 0, 0},
  {4, 8, 3, 6, 0, 0},
  {0, -1, 8, 2, 1, 0},
  {0, 0, 9, 9, 9, 5},
  {0, 0, 0, 2, -3, 2},
  {0, 0, 0, 0, 1, 5},
  {0, 0, 0, 0, 0, 6},
 },
 x:
 []float64{1, 2, 3, 4, 5, 6},
 y:   []float64{-1, -2, -3, -4, -5, -6, -7, -8, -9},
 ans: []float64{31, 86, 153, 97, 404, 3, 91, 92, -18},
},
{
 tA:    blas.Trans,
 m:     9,
 n:     6,
 lda:   4,
 kL:    2,
 kU:    1,
 alpha: 3.0,
 beta:  2.0,
 a: []([]float64{
  {5, 3, 0, 0, 0, 0},
  {-1, 2, 9, 0, 0, 0},
  {4, 8, 3, 6, 0, 0},
  {0, -1, 8, 2, 1, 0},
  {0, 0, 9, 9, 9, 5},
  {0, 0, 0, 2, -3, 2},
  {0, 0, 0, 0, 1, 5},
  {0, 0, 0, 0, 0, 6},
 },
 x:   []float64{1, 2, 3, 4, 5, 6, 7, 8, 9},
 y:   []float64{-1, -2, -3, -4, -5, -6},
 ans: []float64{43, 77, 306, 241, 104, 348},
},
{
```

```
 tA:    blas.NoTrans,
 m:     6,
 n:     3,
 lda:   1,
 kL:    0,
 kU:    0,
 alpha: 2.0,
 beta:  1.0,
 a: []float64{
  {1, 0, 0},
  {0, 1, 0},
  {0, 0, 1},
 },
 x:   []float64{1, 2, 3},
 y:   []float64{-1, -2, -3, -4, -5, -6},
 ans: []float64{1, 2, 3, -4, -5, -6},
},
{
 tA:    blas.Trans,
 m:     6,
 n:     3,
 lda:
 1,
 kL:    0,
 kU:    0,
 alpha: 2.0,
 beta:  1.0,
 a: []float64{
  {1, 0, 0},
  {0, 1, 0},
  {0, 0, 1},
  {0, 0, 0},
  {0, 0, 0},
  {0, 0, 0},
 },
 x:   []float64{1, 2, 3, 4, 5, 6},
 y:   []float64{-1, -2, -3},
 ans: []float64{1, 2, 3},
},
{
 tA:    blas.NoTrans,
 m:     3,
 n:     5,
 lda:   4,
 kL:    1,
 kU:    2,
 alpha: 2.0,
 beta:  1.0,
```

```
  a: [][]float64{
   {1, 2, 3, 0, 0},
   {1, 3, 6, 9, 0},
   {0, 1, 1, 1, 1},
  },
  x:   []float64{1, 2, 3, 4, 5},
  y:   []float64{-1, -2, -3},
  ans: []float64{-1 + 2*(1+4+9), -2 + 2*(1+6+18+36), -3 + 2*(2+3+4+5)},
 },
} {
 extra := 3
 aFlat := flattenBanded(test.a, test.kU, test.kL)
 incTest := func(incX, incY, extra int) {
  xnew := makeIncremented(test.x, incX, extra)
  ynew := makeIncremented(test.y, incY, extra)
  ans := makeIncremented(test.ans, incY, extra)
  blasser.Dgbmv(test.tA, test.m, test.n, test.kL, test.kU, test.alpha, aFlat, test.lda, xnew, incX, test.beta,
ynew, incY)
  if !dSliceTolEqual(ans, ynew) {
   t.Errorf("Case %v: Want %v, got %v", i, ans, ynew)
  }
 }
 incTest(1, 1, extra)
 incTest(1, 3, extra)
 incTest(1, -3, extra)
 incTest(2, 3, extra)
 incTest(2, -3, extra)
 incTest(3, 2, extra)
 incTest(-3, 2, extra)
}
}
graph{Su1{{Su1{Su5{{Su{{Su1{Su5{{Su1}}}}Su5{{Su1}}}}}}}Su5{{Su1}}}}
graph{{edg3{{{{edg3{edg3}{edg3}{edg3}}}edg5}}}}}
graph{{{DIGG}DIGG{}DIGG{DIGG}}DIGG{}DIGG{DIGG{DIGG}}DIGG}
graph{_[f=DiGr_]}
graph{{DI9}}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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// license that can be found in the LICENSE file.

package unit

import (
 "errors"
 "fmt"
 "math"
```

```
 "unicode/utf8"
)

// Frequency represents a frequency in Hertz.
type Frequency float64

const Hertz Frequency = 1

// Unit converts the Frequency to a *Unit
func (f Frequency) Unit() *Unit {
 return New(float64(f), Dimensions{
  TimeDim: -1,
 })
}

// Frequency allows Frequency to implement a Frequencyer interface
func (f Frequency) Frequency() Frequency {
 return f
}

// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (f *Frequency) From(u Uniter) error {
 if !DimensionsMatch(u, Hertz) {
  *f = Frequency(math.NaN())
  return errors.New("Dimension mismatch")
 }
 *f = Frequency(u.Unit().Value())
 return nil
}

func (f Frequency) Format(fs fmt.State,
 c rune) {
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", f, float64(f))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " Hz"
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(f))
  case pOk:
```

```
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(f))
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(f))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(f))
  }
  fmt.Fprint(fs, unit)
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g Hz)", c, f, float64(f))
 }
}
```

graph{{{ST}ST}ST}

graph{{Stra{Stra-9Stra}Stra-9Stra}{Stra-9Stra}Stra-9Stra-9Stra}

```
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package stat

import (
 "math"
 "sort"
)

// ROC returns paired false positive rate (FPR) and true positive rate
// (TPR) values corresponding to cutoff points on the receiver operator
// characteristic (ROC) curve obtained when y is treated as a binary
// classifier for classes with weights. The cutoff thresholds used to
// calculate the ROC are returned in thresh such that tpr[i] and fpr[i]
// are the true and false positive rates for y >= thresh[i].
//
// The input y and cutoffs must be sorted, and values in y must correspond
// to values in classes and weights. SortWeightedLabeled can be used to
// sort y together with classes and weights.
//
// For a given cutoff value, observations corresponding to entries in y
// greater than the cutoff value are classified as false, while those
// less than or equal to the cutoff value
 are classified as true. These
// assigned class labels are compared with the true values in the classes
// slice and used to calculate the FPR and TPR.
//
// If weights is nil, all weights are treated as 1.
//
// If cutoffs is nil or empty, all possible cutoffs are calculated,
// resulting in fpr and tpr having length one greater than the number of
// unique values in y. Otherwise fpr and tpr will be returned with the
// same length as cutoffs. floats.Span can be used to generate equally
```

```
// spaced cutoffs.
//
// More details about ROC curves are available at
// https://en.wikipedia.org/wiki/Receiver_operating_characteristic
func ROC(cutoffs, y []float64, classes []bool, weights []float64) (tpr, fpr, thresh []float64) {
 if len(y) != len(classes) {
  panic("stat: slice length mismatch")
 }
 if weights != nil && len(y) != len(weights) {
  panic("stat: slice length mismatch")
 }
 if !sort.Float64sAreSorted(y) {
  panic("stat: input must be sorted ascending")
 }
 if !sort.Float64sAreSorted(cutoffs)
 {
  panic("stat: cutoff values must be sorted ascending")
 }
 if len(y) == 0 {
  return nil, nil, nil
 }
 if len(cutoffs) == 0 {
  if cutoffs == nil || cap(cutoffs) < len(y)+1 {
   cutoffs = make([]float64, len(y)+1)
  } else {
   cutoffs = cutoffs[:len(y)+1]
  }
  cutoffs[0] = math.Inf(-1)
  // Choose all possible cutoffs for unique values in y.
  bin := 1
  cutoffs[bin] = y[0]
  for i, u := range y[1:] {
   if u == y[i] {
    continue
   }
   bin++
   cutoffs[bin] = u
  }
  cutoffs = cutoffs[:bin+1]
 } else {
  // Don't mutate the provided cutoffs.
  tmp := cutoffs
  cutoffs = make([]float64, len(cutoffs))
  copy(cutoffs, tmp)
 }

 tpr = make([]float64, len(cutoffs))
 fpr = make([]float64, len(cutoffs))
```

```
var bin int
var nPos, nNeg float64
for i, u := range classes {
 // Update the bin until it matches the next y value
 // skipping empty bins.
 for bin < len(cutoffs)-1 && y[i] > cutoffs[bin] {
  bin++
  tpr[bin] = tpr[bin-1]
  fpr[bin] = fpr[bin-1]
 }
 posWeight,
negWeight := 1.0, 0.0
 if weights != nil {
  posWeight = weights[i]
 }
 if !u {
  posWeight, negWeight = negWeight, posWeight
 }
 nPos += posWeight
 nNeg += negWeight
 if y[i] <= cutoffs[bin] {
  tpr[bin] += posWeight
  fpr[bin] += negWeight
 }
}

invNeg := 1 / nNeg
invPos := 1 / nPos
for i := range tpr {
 tpr[i] *= invPos
 tpr[i] = 1 - tpr[i]
 fpr[i] *= invNeg
 fpr[i] = 1 - fpr[i]
}
for i, j := 0, len(tpr)-1; i < j; i, j = i+1, j-1 {
 tpr[i], tpr[j] = tpr[j], tpr[i]
 fpr[i], fpr[j] = fpr[j], fpr[i]
}
for i, j := 1, len(cutoffs)-1; i < j; i, j = i+1, j-1 {
 cutoffs[i], cutoffs[j] = cutoffs[j], cutoffs[i]
}
cutoffs[0] = math.Inf(1)

return tpr, fpr, cutoffs
}
graph{{NodeW}NodeW{NodeW{}NodeN}}
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```

```
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package stat_test

import (
 "fmt"
 "math"

 "gonum.org/v1/gonum/floats"
 "gonum.org/v1/gonum/integrate"
 "gonum.org/v1/gonum/stat"
)

func ExampleROC_weighted() {
 y := []float64{0, 3, 5, 6, 7.5, 8}
 classes := []bool{false, true, false, true, true, true}
 weights := []float64{4, 1, 6, 3, 2, 2}

 tpr, fpr, _ := stat.ROC(nil, y, classes, weights)
 fmt.Printf("true  positive rate: %v\n", tpr)
 fmt.Printf("false positive rate: %v\n", fpr)

 // Output:
 // true  positive rate: [0 0.25 0.5 0.875 0.875 1 1]
 // false positive rate: [0 0 0 0 0.6 0.6 1]
}

func ExampleROC_unweighted() {
 y := []float64{0, 3, 5, 6, 7.5, 8}
 classes := []bool{false, true, false, true, true, true}

 tpr, fpr, _ := stat.ROC(nil, y, classes, nil)
 fmt.Printf("true  positive rate: %v\n", tpr)
 fmt.Printf("false positive rate: %v\n", fpr)

 // Output:
 // true
  positive rate: [0 0.25 0.5 0.75 0.75 1 1]
 // false positive rate: [0 0 0 0 0.5 0.5 1]
}

func ExampleROC_threshold() {
 y := []float64{0.1, 0.4, 0.35, 0.8}
 classes := []bool{false, false, true, true}
 stat.SortWeightedLabeled(y, classes, nil)

 tpr, fpr, thresh := stat.ROC(nil, y, classes, nil)
 fmt.Printf("true  positive rate: %v\n", tpr)
```

```
 fmt.Printf("false positive rate: %v\n", fpr)
 fmt.Printf("cutoff thresholds: %v\n", thresh)

 // Output:
 // true  positive rate: [0 0.5 0.5 1 1]
 // false positive rate: [0 0 0.5 0.5 1]
 // cutoff thresholds: [+Inf 0.8 0.4 0.35 0.1]
}

func ExampleROC_unsorted() {
 y := []float64{8, 7.5, 6, 5, 3, 0}
 classes := []bool{true, true, true, false, true, false}
 weights := []float64{2, 2, 3, 6, 1, 4}

 stat.SortWeightedLabeled(y, classes, weights)

 tpr, fpr, _ := stat.ROC(nil, y, classes, weights)
 fmt.Printf("true  positive rate: %v\n", tpr)
 fmt.Printf("false positive rate: %v\n", fpr)

 // Output:
 // true  positive rate: [0 0.25 0.5 0.875 0.875
 1 1]
 // false positive rate: [0 0 0 0 0.6 0.6 1]
}

func ExampleROC_knownCutoffs() {
 y := []float64{8, 7.5, 6, 5, 3, 0}
 classes := []bool{true, true, true, false, true, false}
 weights := []float64{2, 2, 3, 6, 1, 4}
 cutoffs := []float64{-1, 3, 4}

 stat.SortWeightedLabeled(y, classes, weights)

 tpr, fpr, _ := stat.ROC(cutoffs, y, classes, weights)
 fmt.Printf("true  positive rate: %v\n", tpr)
 fmt.Printf("false positive rate: %v\n", fpr)

 // Output:
 // true  positive rate: [0.875 0.875 1]
 // false positive rate: [0.6 0.6 1]
}

func ExampleROC_equallySpacedCutoffs() {
 y := []float64{8, 7.5, 6, 5, 3, 0}
 classes := []bool{true, true, true, false, true, true}
 weights := []float64{2, 2, 3, 6, 1, 4}
 n := 9
```

```
 stat.SortWeightedLabeled(y, classes, weights)
 cutoffs := make([]float64, n)
 floats.Span(cutoffs, math.Nextafter(y[0], y[0]-1), y[len(y)-1])

 tpr, fpr, _ := stat.ROC(cutoffs, y, classes, weights)
 fmt.Printf("true  positive rate: %.3v\n", tpr)
 fmt.Printf("false positive
 rate: %.3v\n", fpr)

 // Output:
 // true  positive rate: [0 0.333 0.333 0.583 0.583 0.583 0.667 0.667 1]
 // false positive rate: [0 0 0 0 1 1 1 1 1]
}

func ExampleROC_aUC() {
 y := []float64{0.1, 0.35, 0.4, 0.8}
 classes := []bool{true, false, true, false}

 tpr, fpr, _ := stat.ROC(nil, y, classes, nil)

 // Compute Area Under Curve.
 auc := integrate.Trapezoidal(fpr, tpr)
 fmt.Printf("true  positive rate: %v\n", tpr)
 fmt.Printf("false positive rate: %v\n", fpr)
 fmt.Printf("auc: %v\n", auc)

 // Output:
 // true  positive rate: [0 0 0.5 0.5 1]
 // false positive rate: [0 0.5 0.5 1 1]
 // auc: 0.25
}
graph{N{N}{N{N}{N}N}}
graph{{{DIGR1}{DIGR1}DIGR1}{DIGR1{DIGR1}{DIGR1}}{{DIGR1}DIGR1}}
// Code generated by "go generate gonum.org/v1/gonum/unit/constant; DO NOT EDIT.

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// license that can be found in the LICENSE file.

package constant

import (
 "fmt"
 "testing"
)

func TestBoltzmannFormat(t *testing.T) {
```

```
 for _, test := range []struct {
  format string
  want   string
 }{
  {"%v", "1.380649e-23 kg m^2 K^-1 s^-2"},
  {"%.1v", "1e-23 kg m^2 K^-1 s^-2"},
  {"%50.1v", "                          1e-23 kg m^2 K^-1 s^-2"},
  {"%50v", "                    1.380649e-23 kg m^2 K^-1 s^-2"},
  {"%1v", "1.380649e-23 kg m^2 K^-1 s^-2"},
  {"%#v", "constant.boltzmannUnits(1.380649e-23)"},
  {"%s", "%!s(constant.boltzmannUnits=1.380649e-23 kg m^2 K^-1 s^-2)"},
 } {
  got := fmt.Sprintf(test.format, Boltzmann)
  if got != test.want {
   t.Errorf("Format %q: got: %q want: %q", test.format, got, test.want)
  }
 }
}
graph{SubGrau}
// Code generated by "go generate gonum.org/v1/gonum/unit/constant; DO NOT EDIT.

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package constant

import (
 "fmt"

 "gonum.org/v1/gonum/unit"
)

// Planck is the Planck constant (h), it relates the energy carried by a photon to its frequency.
// The dimensions of Planck are kg m^2 s^-1. The constant is exact.
const Planck = planckUnits(6.62607015e-34)

type planckUnits float64

// Unit converts the planckUnits to a *unit.Unit
func (cnst planckUnits) Unit() *unit.Unit {
 return unit.New(float64(cnst), unit.Dimensions{
  unit.MassDim:   1,
  unit.LengthDim: 2,
  unit.TimeDim:   -1,
 })
}
```

```
func (cnst planckUnits) Format(fs fmt.State, c rune) {
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", cnst, float64(cnst))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w,
 wOk := fs.Width()
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), w, p, cnst.Unit())
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, cnst.Unit())
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), w, cnst.Unit())
  default:
   fmt.Fprintf(fs, "%"+string(c), cnst.Unit())
  }
 default:
  fmt.Fprintf(fs, "%%!"+string(c)+"(constant.planckUnits=%v kg m^2 s^-1)", float64(cnst))
 }
}
graph{N}
graph{{digrP{digrA}}}
digraph {{{SW}->t->{}}{e[r=""]M->u->{}->v->{}->w->{}->x->{}}{e[r=""]Q->R->S->T->U->V->W->X->0}}
graph{strh{{{strh{{{strh{{strh{{{strd}}}}}{{{strd}}}}}}}}}
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// license that can be found in the LICENSE file.

package distuv

import (
 "math"

 "golang.org/x/exp/rand"
)

// Categorical is an extension of the Bernoulli distribution where x takes
// values {0, 1, ..., len(w)-1} where w is the weight vector. Categorical must
// be initialized with NewCategorical.
type Categorical struct {
 weights []float64
```

```
 // heap is a weight heap.
 //
 // It keeps a heap-organised sum of remaining
 // index weights that are available to be taken
 // from.
 //
 // Each element holds the sum of weights for
 // the corresponding index, plus the sum of
 // its children's weights; the children of
 // an element i can be found at positions
 // 2*(i+1)-1 and 2*(i+1). The root of the
 // weight heap is at element 0.
 //
 // See comments in container/heap for an
 // explanation of the layout of a heap.
 heap []float64

 src rand.Source
}

// NewCategorical
 constructs a new categorical distribution where the probability
// that x equals i is proportional to w[i]. All of the weights must be
// nonnegative, and at least one of the weights must be positive.
func NewCategorical(w []float64, src rand.Source) Categorical {
 c := Categorical{
  weights: make([]float64, len(w)),
  heap:    make([]float64, len(w)),
  src:     src,
 }
 c.ReweightAll(w)
 return c
}

// CDF computes the value of the cumulative density function at x.
func (c Categorical) CDF(x float64) float64 {
 var cdf float64
 for i, w := range c.weights {
  if x < float64(i) {
   break
  }
  cdf += w
 }
 return cdf / c.heap[0]
}

// Entropy returns the entropy of the distribution.
func (c Categorical) Entropy() float64 {
```

```
 var ent float64
 for _, w := range c.weights {
  if w == 0 {
   continue
  }
  p := w / c.heap[0]
  ent += p * math.Log(p)
 }
 return -ent
}

// Len returns the number of values x could possibly take (the length of the
// initial supplied weight vector).
func (c
 Categorical) Len() int {
 return len(c.weights)
}

// Mean returns the mean of the probability distribution.
func (c Categorical) Mean() float64 {
 var mean float64
 for i, v := range c.weights {
  mean += float64(i) * v
 }
 return mean / c.heap[0]
}

// Prob computes the value of the probability density function at x.
func (c Categorical) Prob(x float64) float64 {
 xi := int(x)
 if float64(xi) != x {
  return 0
 }
 if xi < 0 || xi > len(c.weights)-1 {
  return 0
 }
 return c.weights[xi] / c.heap[0]
}

// LogProb computes the natural logarithm of the value of the probability density function at x.
func (c Categorical) LogProb(x float64) float64 {
 return math.Log(c.Prob(x))
}

// Rand returns a random draw from the categorical distribution.
func (c Categorical) Rand() float64 {
 var r float64
 if c.src == nil {
```

```
 r = c.heap[0] * rand.Float64()
 } else {
 r = c.heap[0] * rand.New(c.src).Float64()
 }
 i := 1
 last := -1
 left := len(c.weights)
 for {
  if r -= c.weights[i-1]; r <= 0 {
   break
 // Fall within item i-1.
  }
  i <<= 1 // Move to left child.
  if d := c.heap[i-1]; r > d {
   r -= d
   // If enough r to pass left child,
   // move to right child state will
   // be caught at break above.
   i++
  }
  if i == last || left < 0 {
   panic("categorical: bad sample")
  }
  last = i
  left--
 }
 return float64(i - 1)
}

// Reweight sets the weight of item idx to w. The input weight must be
// non-negative, and after reweighting at least one of the weights must be
// positive.
func (c Categorical) Reweight(idx int, w float64) {
 if w < 0 {
  panic("categorical: negative weight")
 }
 w, c.weights[idx] = c.weights[idx]-w, w
 idx++
 for idx > 0 {
  c.heap[idx-1] -= w
  idx >>= 1
 }
 if c.heap[0] <= 0 {
  panic("categorical: sum of the weights non-positive")
 }
}

// ReweightAll resets the weights of the distribution. ReweightAll panics if
```

```
// len(w) != c.Len. All of the weights must be nonnegative, and at least one of
// the weights must be positive.
func (c Categorical)
 ReweightAll(w []float64) {
 if len(w) != c.Len() {
  panic("categorical: length of the slices do not match")
 }
 for _, v := range w {
  if v < 0 {
   panic("categorical: negative weight")
  }
 }
 copy(c.weights, w)
 c.reset()
}

func (c Categorical) reset() {
 copy(c.heap, c.weights)
 for i := len(c.heap) - 1; i > 0; i-- {
  // Sometimes 1-based counting makes sense.
  c.heap[((i+1)>>1)-1] += c.heap[i]
 }
 // TODO(btracey): Renormalization for weird weights?
 if c.heap[0] <= 0 {
  panic("categorical: sum of the weights non-positive")
 }
}
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package topo

import (
 "testing"

 "gonum.org/v1/gonum/graph"
 "gonum.org/v1/gonum/graph/graphs/gen"
 "gonum.org/v1/gonum/graph/simple"
)

var (
 gnpDirected_10_tenth   = gnpDirected(10, 0.1)
 gnpDirected_100_tenth  = gnpDirected(100, 0.1)
 gnpDirected_1000_tenth = gnpDirected(1000, 0.1)
 gnpDirected_10_half    = gnpDirected(10, 0.5)
 gnpDirected_100_half   = gnpDirected(100, 0.5)
 gnpDirected_1000_half  = gnpDirected(1000, 0.5)
```

```
)

func gnpDirected(n int, p float64) graph.Directed {
 g := simple.NewDirectedGraph()
 gen.Gnp(g, n, p, nil)
 return g
}

func benchmarkTarjanSCC(b *testing.B, g graph.Directed) {
 var sccs [][]graph.Node
 for i := 0; i < b.N; i++ {
  sccs = TarjanSCC(g)
 }
 if len(sccs) == 0 {
  b.Fatal("unexpected number zero-sized SCC set")
 }
}

func BenchmarkTarjanSCCGnp_10_tenth(b *testing.B) {
 benchmarkTarjanSCC(b,
 gnpDirected_10_tenth)
}
func BenchmarkTarjanSCCGnp_100_tenth(b *testing.B) {
 benchmarkTarjanSCC(b, gnpDirected_100_tenth)
}
func BenchmarkTarjanSCCGnp_1000_tenth(b *testing.B) {
 benchmarkTarjanSCC(b, gnpDirected_1000_tenth)
}
func BenchmarkTarjanSCCGnp_10_half(b *testing.B) {
 benchmarkTarjanSCC(b, gnpDirected_10_half)
}
func BenchmarkTarjanSCCGnp_100_half(b *testing.B) {
 benchmarkTarjanSCC(b, gnpDirected_100_half)
}
func BenchmarkTarjanSCCGnp_1000_half(b *testing.B) {
 benchmarkTarjanSCC(b, gnpDirected_1000_half)
}
graph{Nn{Nn}Na{Nn{Nn}Nn{Nn{Nn}Nn}Nn{Nn}Na{Nn{Nn}Nn{Nn{Nn}Nn}Nn}Nn}}
graph{"\
\
\
\
\
\
\
\
\
\\\\"}
```

mathext
[![GoDoc](https://godoc.org/gonum.org/v1/gonum/mathext?status.svg)](https://godoc.org/gonum.org/v1/gonum/mathext)

Package mathext implements basic elementary functions not included in the Go standard library.
graph{{ST_{{{{ST_{{{{{ST_}ST_}}ST_}ST_}ST_}}ST_}}}ST_}
graph{{{GRAP}GRAP}GRAP}

```
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package f64

import (
 "fmt"
 "testing"
)

const (
 testLen = 1e5
)

var (
 a = 2.0
 x = make([]float64, testLen)
 y = make([]float64, testLen)
 z = make([]float64, testLen)
)

func init() {
 for n := range x {
  x[n] = float64(n)
  y[n] = float64(n)
 }
}

func BenchmarkAxpyUnitary(t *testing.B) {
 naiveaxpyu := func(a float64, x, y []float64) {
  for i, v := range x {
   y[i] += a * v
  }
 }
 tests := []struct {
  name string
  f    func(a float64, x, y []float64)
 }{
  {"AxpyUnitary", AxpyUnitary},
  {"NaiveAxpyUnitary", naiveaxpyu},
```

```
 }
 for _, test := range tests {
  for _, ln := range []uintptr{1, 3, 10, 30, 1e2, 3e2, 1e3, 3e3, 1e4, 3e4, 1e5} {
   t.Run(fmt.Sprintf("%s-%d", test.name, ln), func(b *testing.B) {
    b.SetBytes(int64(64 * ln))
    x, y := x[:ln], y[:ln]
    b.ResetTimer()
    for i := 0; i < b.N; i++ {
     test.f(a,
 x, y)
    }
   })
  }
 }
}

func BenchmarkAxpyUnitaryTo(t *testing.B) {
 naiveaxpyut := func(d []float64, a float64, x, y []float64) {
  for i, v := range x {
   d[i] = y[i] + a*v
  }
 }
 tests := []struct {
  name string
  f    func(z []float64, a float64, x, y []float64)
 }{
  {"AxpyUnitaryTo", AxpyUnitaryTo},
  {"NaiveAxpyUnitaryTo", naiveaxpyut},
 }
 for _, test := range tests {
  for _, ln := range []uintptr{1, 3, 10, 30, 1e2, 3e2, 1e3, 3e3, 1e4, 3e4, 1e5} {
   t.Run(fmt.Sprintf("%s-%d", test.name, ln), func(b *testing.B) {
    b.SetBytes(int64(64 * ln))
    x, y, z := x[:ln], y[:ln], z[:ln]
    b.ResetTimer()
    for i := 0; i < b.N; i++ {
     test.f(z, a, x, y)
    }
   })
  }
 }
}

var incsAxpy = []struct {
 len uintptr
 inc []int
}{
 {1, []int{1}},
```

```
 {2, []int{1, 2, 4, 10}},
 {3, []int{1, 2, 4, 10}},
 {4, []int{1, 2, 4, 10}},
 {5, []int{1, 2, 4, 10}},
 {10, []int{1, 2, 4, 10}},
 {500, []int{1, 2, 4, 10}},
 {1e3, []int{1, 2, 4, 10}},
 {1e4, []int{1, 2, 4, 10, -1, -2, -4,
 -10}},
}

func BenchmarkAxpyInc(t *testing.B) {
 naiveaxpyinc := func(alpha float64, x, y []float64, n, incX, incY, ix, iy uintptr) {
  for i := 0; i < int(n); i++ {
   y[iy] += alpha * x[ix]
   ix += incX
   iy += incY
  }
 }
 tests := []struct {
  name string
  f    func(alpha float64, x, y []float64, n, incX, incY, ix, iy uintptr)
 }{
  {"AxpyInc", AxpyInc},
  {"NaiveAxpyInc", naiveaxpyinc},
 }
 for _, test := range tests {
  for _, tt := range incsAxpy {
   for _, inc := range tt.inc {
    t.Run(fmt.Sprintf("%s-%d-inc(%d)", test.name, tt.len, inc), func(b *testing.B) {
     b.SetBytes(int64(64 * tt.len))
     var idx, tstInc uintptr = 0, uintptr(inc)
     if inc < 0 {
      idx = uintptr((-int(tt.len) + 1) * inc)
     }
     for i := 0; i < b.N; i++ {
      test.f(a, x, y, uintptr(tt.len), tstInc, tstInc, idx, idx)
     }
    })
   }
  }
 }
}

func BenchmarkAxpyIncTo(t *testing.B) {
 naiveaxpyincto := func(dst []float64, incDst, idst uintptr, alpha float64, x, y []float64, n, incX,
 incY, ix, iy uintptr) {
  for i := 0; i < int(n); i++ {
```

```
  dst[idst] = alpha*x[ix] + y[iy]
  ix += incX
  iy += incY
  idst += incDst
 }
}
tests := []struct {
 name string
 f    func(dst []float64, incDst, idst uintptr, alpha float64, x, y []float64, n, incX, incY, ix, iy uintptr)
}{
 {"AxpyIncTo", AxpyIncTo},
 {"NaiveAxpyIncTo", naiveaxpyincto},
}
for _, test := range tests {
 for _, tt := range incsAxpy {
  for _, inc := range tt.inc {
   t.Run(fmt.Sprintf("%s-%d-inc(%d)", test.name, tt.len, inc), func(b *testing.B) {
    b.SetBytes(int64(64 * tt.len))
    var idx, tstInc uintptr = 0, uintptr(inc)
    if inc < 0 {
     idx = uintptr((-int(tt.len) + 1) * inc)
    }
    for i := 0; i < b.N; i++ {
     test.f(z, tstInc, idx, a, x, y, uintptr(tt.len),
      tstInc, tstInc, idx, idx)
    }
   })
  }
 }
}
}
graph{DiGra{{{{{DiGra}}DiGra}DiGra}}}
graph{ED{ED{ED}ED}ED{ED}}
graph{{{{{digraa}digraa{{{{digraa}digrag}}}}digrag}}digrag}
// Copyright 2015 The Gonum Authors. All rights reserved.
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// license that can be found in the LICENSE file.

package ordered

import "gonum.org/v1/gonum/graph"

// ByID implements the sort.Interface sorting a slice of graph.Node
// by ID.
type ByID []graph.Node

func (n ByID) Len() int           { return len(n) }
func (n ByID) Less(i, j int) bool { return n[i].ID() < n[j].ID() }
```

```
func (n ByID) Swap(i, j int)      { n[i], n[j] = n[j], n[i] }

// BySliceValues implements the sort.Interface sorting a slice of
// []int64 lexically by the values of the []int64.
type BySliceValues [][]int64

func (c BySliceValues) Len() int { return len(c) }
func (c BySliceValues) Less(i, j int) bool {
 a, b := c[i], c[j]
 l := len(a)
 if len(b) < l {
  l = len(b)
 }
 for k, v := range a[:l] {
  if v < b[k] {
   return true
  }
  if v > b[k] {
   return false
  }
 }
 return len(a) < len(b)
}
func (c BySliceValues) Swap(i, j int) { c[i], c[j] = c[j], c[i] }

//
 BySliceIDs implements the sort.Interface sorting a slice of
// []graph.Node lexically by the IDs of the []graph.Node.
type BySliceIDs [][]graph.Node

func (c BySliceIDs) Len() int { return len(c) }
func (c BySliceIDs) Less(i, j int) bool {
 a, b := c[i], c[j]
 l := len(a)
 if len(b) < l {
  l = len(b)
 }
 for k, v := range a[:l] {
  if v.ID() < b[k].ID() {
   return true
  }
  if v.ID() > b[k].ID() {
   return false
  }
 }
 return len(a) < len(b)
}
func (c BySliceIDs) Swap(i, j int) { c[i], c[j] = c[j], c[i] }
```

```
// Int64s implements the sort.Interface sorting a slice of
// int64.
type Int64s []int64

func (s Int64s) Len() int           { return len(s) }
func (s Int64s) Less(i, j int) bool { return s[i] < s[j] }
func (s Int64s) Swap(i, j int)      { s[i], s[j] = s[j], s[i] }

// Reverse reverses the order of nodes.
func Reverse(nodes []graph.Node) {
 for i, j := 0, len(nodes)-1; i < j; i, j = i+1, j-1 {
  nodes[i], nodes[j] = nodes[j], nodes[i]
 }
}

// LinesByIDs implements the sort.Interface
 sorting a slice of graph.LinesByIDs
// lexically by the From IDs, then by the To IDs, finally by the Line IDs.
type LinesByIDs []graph.Line

func (n LinesByIDs) Len() int { return len(n) }
func (n LinesByIDs) Less(i, j int) bool {
 a, b := n[i], n[j]
 if a.From().ID() != b.From().ID() {
  return a.From().ID() < b.From().ID()
 }
 if a.To().ID() != b.To().ID() {
  return a.To().ID() < b.To().ID()
 }
 return n[i].ID() < n[j].ID()
}
func (n LinesByIDs) Swap(i, j int) { n[i], n[j] = n[j], n[i] }
graph{{DIGR{DIGR}DIGR{DIGR}}}
graph{g_{g_{g_}g_{g_{g_}g_{g_}g_}}}
Graph{{{EDGG}{EDGG}{EDGG}{EDGG}}}
digraph{e[l=<<"> <R> <">a<D> <D>r<D> <D>r</> </> <">a</> <D>r</> </> </>>l=""]n->g[l=""]g->l[l=""]}
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// license that can be found in the LICENSE file.

package fd

import (
 "math"
 "runtime"
)
```

```
// A Point is a stencil location in a finite difference formula.
type Point struct {
 Loc   float64
 Coeff float64
}

// Formula represents a finite difference formula on a regularly spaced grid
// that approximates the derivative of order k of a function f at x as
//  d^k f(x)  (1 / Step^k) * \sum_i Coeff_i * f(x + Step * Loc_i).
// Step must be positive, or the finite difference formula will panic.
type Formula struct {
 // Stencil is the set of sampling Points which are used to estimate the
 // derivative. The locations will be scaled by Step and are relative to x.
 Stencil    []Point
 Derivative int     // The order of the approximated derivative.
 Step       float64 // Default step size for the formula.
}

func (f Formula) isZero() bool {
 return f.Stencil == nil && f.Derivative
 == 0 && f.Step == 0
}

// Settings is the settings structure for computing finite differences.
type Settings struct {
 // Formula is the finite difference formula used
 // for approximating the derivative.
 // Zero value indicates a default formula.
 Formula Formula
 // Step is the distance between points of the stencil.
 // If equal to 0, formula's default step will be used.
 Step float64

 OriginKnown bool    // Flag that the value at the origin x is known.
 OriginValue float64 // Value at the origin (only used if OriginKnown is true).

 Concurrent bool // Should the function calls be executed concurrently.
}

// Forward represents a first-order accurate forward approximation
// to the first derivative.
var Forward = Formula{
 Stencil:    []Point{{Loc: 0, Coeff: -1}, {Loc: 1, Coeff: 1}},
 Derivative: 1,
 Step:       2e-8,
}

// Forward2nd represents a first-order accurate forward approximation
```

```
// to the second derivative.
var Forward2nd = Formula{
 Stencil:    []Point{{Loc: 0, Coeff:
 1}, {Loc: 1, Coeff: -2}, {Loc: 2, Coeff: 1}},
 Derivative: 2,
 Step:       1e-4,
}

// Backward represents a first-order accurate backward approximation
// to the first derivative.
var Backward = Formula{
 Stencil:    []Point{{Loc: -1, Coeff: -1}, {Loc: 0, Coeff: 1}},
 Derivative: 1,
 Step:       2e-8,
}

// Backward2nd represents a first-order accurate forward approximation
// to the second derivative.
var Backward2nd = Formula{
 Stencil:    []Point{{Loc: 0, Coeff: 1}, {Loc: -1, Coeff: -2}, {Loc: -2, Coeff: 1}},
 Derivative: 2,
 Step:       1e-4,
}

// Central represents a second-order accurate centered approximation
// to the first derivative.
var Central = Formula{
 Stencil:    []Point{{Loc: -1, Coeff: -0.5}, {Loc: 1, Coeff: 0.5}},
 Derivative: 1,
 Step:       6e-6,
}

// Central2nd represents a secord-order accurate centered approximation
// to the second derivative.
var Central2nd = Formula{
 Stencil:    []Point{{Loc: -1, Coeff: 1}, {Loc: 0, Coeff: -2}, {Loc: 1, Coeff: 1}},
 Derivative:
 2,
 Step:       1e-4,
}

var negativeStep = "fd: negative step"

// checkFormula checks if the formula is valid, and panics otherwise.
func checkFormula(formula Formula) {
 if formula.Derivative == 0 || formula.Stencil == nil || formula.Step <= 0 {
  panic("fd: bad formula")
 }
```

```
}

// computeWorkers returns the desired number of workers given the concurrency
// level and number of evaluations.
func computeWorkers(concurrent bool, evals int) int {
 if !concurrent {
  return 1
 }
 nWorkers := runtime.GOMAXPROCS(0)
 if nWorkers > evals {
  nWorkers = evals
 }
 return nWorkers
}

// usesOrigin returns whether the stencil uses the origin, which is true iff
// one of the locations in the stencil equals 0.
func usesOrigin(stencil []Point) bool {
 for _, pt := range stencil {
  if pt.Loc == 0 {
   return true
  }
 }
 return false
}

// getOrigin returns the value at the origin. It returns originValue if originKnown
// is true. It returns the value returned by f if stencil contains a point
 with
// zero location, and NaN otherwise.
func getOrigin(originKnown bool, originValue float64, f func() float64, stencil []Point) float64 {
 if originKnown {
  return originValue
 }
 for _, pt := range stencil {
  if pt.Loc == 0 {
   return f()
  }
 }
 return math.NaN()
}

const (
 badDerivOrder = "fd: invalid derivative order"
)
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// license that can be found in the LICENSE file.
```

```
package gen

import (
 "errors"
 "fmt"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/graph"
 "gonum.org/v1/gonum/graph/simple"
 "gonum.org/v1/gonum/stat/sampleuv"
)

// TunableClusteringScaleFree constructs a subgraph in the destination, dst, of order n.
// The graph is constructed successively starting from an m order graph with one node
// having degree m-1. At each iteration of graph addition, one node is added with m
// additional edges joining existing nodes with probability proportional to the nodes'
// degrees. The edges are formed as a triad with probability, p.
// If src is not nil it is used as the random source, otherwise rand.Float64 and
// rand.Intn are used for the random number generators.
//
// The algorithm is essentially as described in http://arxiv.org/abs/cond-mat/0110452.
func TunableClusteringScaleFree(dst
 graph.UndirectedBuilder, n, m int, p float64, src rand.Source) error {
 if p < 0 || p > 1 {
  return fmt.Errorf("gen: bad probability: p=%v", p)
 }
 if n <= m {
  return fmt.Errorf("gen: n <= m: n=%v m=%d", n, m)
 }

 var (
  rnd  func() float64
  rndN func(int) int
 )
 if src == nil {
  rnd = rand.Float64
  rndN = rand.Intn
 } else {
  r := rand.New(src)
  rnd = r.Float64
  rndN = r.Intn
 }

 // Initial condition.
 wt := make([]float64, n)
 id := make([]int64, n)
```

```
for u := 0; u < m; u++ {
 un := dst.NewNode()
 dst.AddNode(un)
 id[u] = un.ID()
 // We need to give equal probability for
 // adding the first generation of edges.
 wt[u] = 1
}
ws := sampleuv.NewWeighted(wt, src)
for i := range wt {
 // These weights will organically grow
 // after the first growth iteration.
 wt[i] = 0
}

// Growth.
for v := m; v < n; v++ {
 vn := dst.NewNode()
 dst.AddNode(vn)
 id[v] = vn.ID()
 var u int
pa:
 for i := 0; i < m; i++ {
  // Triad formation.
  if i != 0 && rnd() < p
{
   // TODO(kortschak): Decide whether the node
   // order in this input to permute should be
   // sorted first to allow repeatable runs.
   for _, w := range permute(graph.NodesOf(dst.From(id[u])), rndN) {
    wid := w.ID()
    if wid == id[v] || dst.HasEdgeBetween(wid, id[v]) {
     continue
    }

    dst.SetEdge(dst.NewEdge(w, vn))
    wt[wid]++
    wt[v]++
    continue pa
   }
  }

  // Preferential attachment.
  for {
   var ok bool
   u, ok = ws.Take()
   if !ok {
    return errors.New("gen: depleted distribution")
```

```
    }
    if u == v || dst.HasEdgeBetween(id[u], id[v]) {
     continue
    }
    dst.SetEdge(dst.NewEdge(dst.Node(id[u]), vn))
    wt[u]++
    wt[v]++
    break
   }
  }

  ws.ReweightAll(wt)
 }

 return nil
}

func permute(n []graph.Node, rnd func(int) int) []graph.Node {
 for i := range n[:len(n)-1] {
  j := rnd(len(n)-i) + i
  n[i], n[j] = n[j], n[i]
 }
 return n
}

// PreferentialAttachment constructs a graph in the destination, dst, of order
 n.
// The graph is constructed successively starting from an m order graph with one
// node having degree m-1. At each iteration of graph addition, one node is added
// with m additional edges joining existing nodes with probability proportional
// to the nodes' degrees. If src is not nil it is used as the random source,
// otherwise rand.Float64 is used for the random number generator.
//
// The algorithm is essentially as described in http://arxiv.org/abs/cond-mat/0110452
// after 10.1126/science.286.5439.509.
func PreferentialAttachment(dst graph.UndirectedBuilder, n, m int, src rand.Source) error {
 if n <= m {
  return fmt.Errorf("gen: n <= m: n=%v m=%d", n, m)
 }

 // Initial condition.
 wt := make([]float64, n)
 for u := 0; u < m; u++ {
  if dst.Node(int64(u)) == nil {
   dst.AddNode(simple.Node(u))
  }
  // We need to give equal probability for
  // adding the first generation of edges.
```

```
 wt[u] = 1
 }
 ws := sampleuv.NewWeighted(wt, src)
 for i := range wt {
  // These weights
 will organically grow
  // after the first growth iteration.
  wt[i] = 0
 }

 // Growth.
 for v := m; v < n; v++ {
  for i := 0; i < m; i++ {
   // Preferential attachment.
   u, ok := ws.Take()
   if !ok {
    return errors.New("gen: depleted distribution")
   }
   dst.SetEdge(simple.Edge{F: simple.Node(u), T: simple.Node(v)})
   wt[u]++
   wt[v]++
  }
  ws.ReweightAll(wt)
 }

 return nil
}
digraph{e[l=<<TAE B="0">
 <TR>
     <TD HGErg="9023" w="234230">a</TD>
     <TD>cfdswr</TD>
 </TR>
   </TAE>>l=""]n->g[l=""]g->l[l=""]}
graph{NOA{NOA{NOA{NOA}}NOA}}
graph{St{St{{St}}St}}
This project is dual-licensed under the UNLICENSE (see UNLICENSE) or
the MIT license (see LICENSE-MIT).

You may use the project under the terms of either license.
graph{Di{Di}{Di}}
graph{{striI}}
graph{St_}
graph{{{{{{DI_}}}}DI_}}
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graph{Digraph}
graph{{{grap{}grap{{grap}}}grap}}
graph{SubGp{SubGp{SubGp}}SubGh{SubGp}}
```

```
graph{{ea""ea}}
graph{{SUB7{SUB7}{SUB7}SUB7{SUB7}SUB2}}
graph{{DIG_{DIG_{{DIG_{DIG_}DIG_{DIG_}DIG_}}}DIG_{DIG_}DIG_}}
graph{diGr_[diGr_=""]diGr_=diGr_}
graph{{E_{E_}}E_{E_{E_}}E_{E_}E_{{E_}}E_{E_{E_}}E_{E_}E_{}E_{E_}}
graph{{s{{s}s}}s{{s}s{{s{{s}s}}s{{s}}}}}
graph{subd{{subd{suba}{subd{suba}}}suba}}
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// license that can be found in the LICENSE file.

package c64

import (
 "math/cmplx"
 "testing"
)

func same(x, y complex64) bool {
 return x == y || (cmplx.IsNaN(complex128(x)) && cmplx.IsNaN(complex128(y)))
}

func guardVector(vec []complex64, gdVal complex64, gdLen int) (guarded []complex64) {
 guarded = make([]complex64, len(vec)+gdLen*2)
 copy(guarded[gdLen:], vec)
 for i := 0; i < gdLen; i++ {
  guarded[i] = gdVal
  guarded[len(guarded)-1-i] = gdVal
 }
 return guarded
}

func isValidGuard(vec []complex64, gdVal complex64, gdLen int) bool {
 for i := 0; i < gdLen; i++ {
  if !same(vec[i], gdVal) || !same(vec[len(vec)-1-i], gdVal) {
   return false
  }
 }
 return true
}

func guardIncVector(vec []complex64, gdVal complex64, inc, gdLen int) (guarded []complex64) {
 if inc < 0 {
  inc = -inc
 }
 inrLen := len(vec) * inc
 guarded = make([]complex64, inrLen+gdLen*2)
 for i :=
```

```
 range guarded {
  guarded[i] = gdVal
 }
 for i, v := range vec {
  guarded[gdLen+i*inc] = v
 }
 return guarded
}

func checkValidIncGuard(t *testing.T, vec []complex64, gdVal complex64, inc, gdLen int) {
 srcLen := len(vec) - 2*gdLen
 if inc < 0 {
  srcLen = len(vec) * -inc
 }

 for i := range vec {
  switch {
  case same(vec[i], gdVal):
   // Correct value
  case (i-gdLen)%inc == 0 && (i-gdLen)/inc < len(vec):
   // Ignore input values
  case i < gdLen:
   t.Errorf("Front guard violated at %d %v", i, vec[:gdLen])
  case i > gdLen+srcLen:
   t.Errorf("Back guard violated at %d %v", i-gdLen-srcLen, vec[gdLen+srcLen:])
  default:
   t.Errorf("Internal guard violated at %d %v", i-gdLen, vec[gdLen:gdLen+srcLen])
  }
 }
}

var ( // Offset sets for testing alignment handling in Unitary assembly functions.
 align1 = []int{0, 1}
 align2 = newIncSet(0, 1)
 align3 = newIncToSet(0, 1)
)

type incSet struct {
 x, y int
}

// genInc will generate all (x,y) combinations of the input increment set.
func
 newIncSet(inc ...int) []incSet {
 n := len(inc)
 is := make([]incSet, n*n)
 for x := range inc {
  for y := range inc {
```

```
   is[x*n+y] = incSet{inc[x], inc[y]}
  }
 }
 return is
}

type incToSet struct {
 dst, x, y int
}

// genIncTo will generate all (dst,x,y) combinations of the input increment set.
func newIncToSet(inc ...int) []incToSet {
 n := len(inc)
 is := make([]incToSet, n*n*n)
 for i, dst := range inc {
  for x := range inc {
   for y := range inc {
    is[i*n*n+x*n+y] = incToSet{dst, inc[x], inc[y]}
   }
  }
 }
 return is
}
graph{SubGp{SubGp}{SubGp{SubGp}}SubGh{SubGp}{SubGp<>SubGp<>SubGp}{SubGp}{}}
graph{{subGr_{subGr_}subGr_}}
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// license that can be found in the LICENSE file.

package testlapack

import (
 "math"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/floats"
)

type Dlaqr1er interface {
 Dlaqr1(n int, h []float64, ldh int, sr1, si1, sr2, si2 float64, v []float64)
}

func Dlaqr1Test(t *testing.T, impl Dlaqr1er) {
 rnd := rand.New(rand.NewSource(1))

 for _, n := range []int{2, 3} {
```

```
 for _, ldh := range []int{n, n + 1, n + 10} {
  for _, cas := range []int{1, 2} {
   for k := 0; k < 100; k++ {
    v := make([]float64, n)
    for i := range v {
     v[i] = math.NaN()
    }
    h := make([]float64, n*(n-1)*ldh)
    for i := range h {
     h[i] = math.NaN()
    }
    for i := 0; i < n; i++ {
     for j := 0; j < n; j++ {
      h[i*ldh+j] = rnd.NormFloat64()
     }
    }
    var sr1, sr2, si1, si2 float64
    if cas == 1 {
     sr1 = rnd.NormFloat64()
     sr2 = sr1
     si1
= rnd.NormFloat64()
     si2 = -si1
    } else {
     sr1 = rnd.NormFloat64()
     sr2 = rnd.NormFloat64()
     si1 = 0
     si2 = 0
    }
    impl.Dlaqr1(n, h, ldh, sr1, si1, sr2, si2, v)

    // Matrix H - s1*I.
    h1 := make([]complex128, n*n)
    for i := 0; i < n; i++ {
     for j := 0; j < n; j++ {
      h1[i*n+j] = complex(h[i*ldh+j], 0)
      if i == j {
       h1[i*n+j] -= complex(sr1, si1)
      }
     }
    }
    // First column of H - s2*I.
    h2 := make([]complex128, n)
    for i := 0; i < n; i++ {
     h2[i] = complex(h[i*ldh], 0)
    }
    h2[0] -= complex(sr2, si2)
```

```
    wantv := make([]float64, n)
    // Multiply (H-s1*I)*(H-s2*I) to get a tentative
    // wantv.
    for i := 0; i < n; i++ {
     for j := 0; j < n; j++ {
      wantv[i] += real(h1[i*n+j] * h2[j])
     }
    }
    // Get the unknown scale.
    scale := v[0] / wantv[0]
    // Compute the actual wantv.
    floats.Scale(scale, wantv)

    // The scale must be
 the same for all elements.
    if floats.Distance(wantv, v, math.Inf(1)) > 1e-13 {
     t.Errorf("n = %v, ldh = %v, case = %v: Unexpected value of v: got %v, want %v", n, ldh, cas, v, wantv)
    }
   }
  }
 }
}
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// license that can be found in the LICENSE file.

package distuv

import (
 "math"
 "sort"
 "testing"

 "gonum.org/v1/gonum/floats"

 "golang.org/x/exp/rand"
)

func TestGumbelRightProbCDF(t *testing.T) {
 for _, test := range []struct {
  x, mu, beta, wantProb, wantCDF float64
 }{
  // Values calculated with scipy.stats.gumbel_r .
  {-2, 0, 1, 0.0045662814201279153, 0.00061797898933109343},
  {0.01, 0, 1, 0.36786110881643569, 0.37155817442380817},
  {6, 0, 1, 0.0024726155730149077, 0.99752431739275249},
```

```
 // Values calculated with Wolfram Alpha's ExtremeValueDistribution.
 {0.1, 2, 5, 0.06776411497087929, 0.231706315790068},
 {0.1, -2, 5, 0.06811997894673336, 0.5183799456323944},
 {-2.1, -2, 0.1, 1.793740787340169, 0.06598803584531238},
 } {
 g := GumbelRight{Mu: test.mu, Beta: test.beta}
 pdf := g.Prob(test.x)
 if !floats.EqualWithinAbsOrRel(pdf, test.wantProb, 1e-12,
 1e-12) {
  t.Errorf("Prob mismatch, x = %v, mu = %v, beta = %v. Got %v, want %v", test.x, test.mu, test.beta, pdf,
test.wantProb)
 }
 cdf := g.CDF(test.x)
 if !floats.EqualWithinAbsOrRel(cdf, test.wantCDF, 1e-12, 1e-12) {
  t.Errorf("CDF mismatch, x = %v, mu = %v, beta = %v. Got %v, want %v", test.x, test.mu, test.beta, cdf,
test.wantCDF)
 }
 }
}

func TestGumbelRight(t *testing.T) {
 src := rand.New(rand.NewSource(1))
 for i, b := range []GumbelRight{
 {0, 1, src},
 {-5, 6, src},
 {3, 0.1, src},
 } {
 testGumbelRight(t, b, i)
 }
}

func testGumbelRight(t *testing.T, g GumbelRight, i int) {
 const (
 tol  = 1e-2
 n    = 5e5
 bins = 50
 )
 x := make([]float64, n)
 generateSamples(x, g)
 sort.Float64s(x)

 min := math.Inf(-1)
 testRandLogProbContinuous(t, i, min, x, g, tol, bins)
 checkProbContinuous(t, i, x, g, 1e-3)
 checkMean(t, i, x, g, tol)
 checkVarAndStd(t, i, x, g, tol)
 checkExKurtosis(t, i, x, g, 1e-1)
 checkSkewness(t, i, x, g, 5e-2)
```

```
 checkQuantileCDFSurvival(t,
 i, x, g, 5e-3)
}
// Code generated by "go generate gonum.org/v1/gonum/unit/constant; DO NOT EDIT.

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// license that can be found in the LICENSE file.

package constant

import (
 "fmt"

 "gonum.org/v1/gonum/unit"
)

// MagneticConstant is the magnetic constant (), the magnetic permeability in a classical vacuum.
// The dimensions of MagneticConstant are A^2 s^4 kg^-1 m^-3. The standard uncertainty of the constant is 1.9e-16
A^2 s^4 kg^-1 m^-3.
const MagneticConstant = magneticConstantUnits(1.2566370621238374e-06)

type magneticConstantUnits float64

// Unit converts the magneticConstantUnits to a *unit.Unit
func (cnst magneticConstantUnits) Unit() *unit.Unit {
 return unit.New(float64(cnst), unit.Dimensions{
  unit.CurrentDim: 2,
  unit.TimeDim:    4,
  unit.MassDim:    -1,
  unit.LengthDim:  -3,
 })
}

func (cnst magneticConstantUnits) Format(fs fmt.State, c rune) {
 switch c {
 case 'v':
  if
 fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", cnst, float64(cnst))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  switch {
  case pOk && wOk:
```

```
   fmt.Fprintf(fs, "%*.*"+string(c), w, p, cnst.Unit())
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, cnst.Unit())
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), w, cnst.Unit())
  default:
   fmt.Fprintf(fs, "%"+string(c), cnst.Unit())
  }
 default:
  fmt.Fprintf(fs, "%%!"+string(c)+"(constant.magneticConstantUnits=%v A^2 s^4 kg^-1 m^-3)", float64(cnst))
 }
}
graph{{dig_}}
<?xml version="1.0" encoding="UTF-8"?>
<gexf xmlns="http://www.gexf.net/1.2draft" version="1.2">
   <graph mode="static" defaultedgetype="directed">
       <nodes>
           <node id="0" label="Hello" />
           <node id="1" label="Word" />
       </nodes>
       <edges>
           <edge id="0" source="0" target="1" />
       </edges>
   </graph>
</gexf>
graph{DiGr{{{DiGr}DiGr}DiGr}}
graph{{ED}ED}
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package testlapack

import (
 "math"
 "sort"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/floats"
)

type Dsterfer interface {
 Dgetrfer
 Dsterf(n int, d, e []float64) (ok bool)
}
```

```
func DsterfTest(t *testing.T, impl Dsterfer) {
 // Hand coded tests.
 for cas, test := range []struct {
  d []float64
  e []float64
  n int

  ans []float64
 }{
  // Computed from Fortran code.
  {
   d:   []float64{1, 3, 4, 6},
   e:   []float64{2, 4, 5},
   n:   4,
   ans: []float64{11.046227528488854, 4.795922173417400, -2.546379458290125, 0.704229756383872},
  },
 } {
  n := test.n
  d := make([]float64, len(test.d))
  copy(d, test.d)
  e := make([]float64, len(test.e))
  copy(e, test.e)
  ok := impl.Dsterf(n, d, e)
  if !ok {
   t.Errorf("Case %d, Eigenvalue decomposition failed", cas)
   continue
  }
  ans := make([]float64, len(test.ans))
  copy(ans,
 test.ans)
  sort.Float64s(ans)
  if !floats.EqualApprox(ans, d, 1e-10) {
   t.Errorf("eigenvalue mismatch")
  }
 }

 rnd := rand.New(rand.NewSource(1))
 // Probabilistic tests.
 for _, n := range []int{4, 6, 10} {
  for cas := 0; cas < 10; cas++ {
   d := make([]float64, n)
   for i := range d {
    d[i] = rnd.NormFloat64()
   }
   dCopy := make([]float64, len(d))
   copy(dCopy, d)
   e := make([]float64, n-1)
   for i := range e {
```

```
 e[i] = rnd.NormFloat64()
}
eCopy := make([]float64, len(e))
copy(eCopy, e)

ok := impl.Dsterf(n, d, e)
if !ok {
 t.Errorf("Eigenvalue decomposition failed")
 continue
}

// Test that the eigenvalues are sorted.
if !sort.Float64sAreSorted(d) {
 t.Errorf("Values are not sorted")
}

// Construct original tridagional matrix.
lda := n
a := make([]float64, n*lda)
for i := 0; i < n; i++ {
 a[i*lda+i] = dCopy[i]
 if i != n-1 {
  a[i*lda+i+1] = eCopy[i]
  a[(i+1)*lda+i] = eCopy[i]
 }
}

asub
:= make([]float64, len(a))
ipiv := make([]int, n)

// Test that they are actually eigenvalues by computing the
// determinant of A - I.
// TODO(btracey): Replace this test with a more numerically stable
// test.
for _, lambda := range d {
 copy(asub, a)
 for i := 0; i < n; i++ {
  asub[i*lda+i] -= lambda
 }

 // Compute LU.
 ok := impl.Dgetrf(n, n, asub, lda, ipiv)
 if !ok {
  // Definitely singular.
  continue
 }
 // Compute determinant.
```

```
    var logdet float64
    for i := 0; i < n; i++ {
     v := asub[i*lda+i]
     logdet += math.Log(math.Abs(v))
    }
    if math.Exp(logdet) > 2 {
     t.Errorf("Incorrect singular value. n = %d, cas = %d, det = %v", n, cas, math.Exp(logdet))
    }
   }
  }
 }
}
graph{STRIR{STRIR}STRIR{STRIR}{STRIR}STRII}
graph{subgb{{{subgb{{subgb{{subgb{}subgf}}}}}}subgb}}
graph{{{{strictG}}}}
graph{{Sub1}{Sub1}Sub5}
graph{{{{{{{{str{{str}}}}str{{str}}}}}str}}}}
graph{SUBo}
graph{DiG{DiG}DiG}
graph{{Subg{Subg}{Subg}{Subg}}}
graph{<<TT><TT>>}
graph{{{grapQ}{grapJ{grapQ}{grapJ{grapJ{grapQ}}}}}}
graph{Stu}
graph{SubP{SubW}}
graph{{{Digrap_}Digrap_}Digrap_}
graph{{Di_}{Di_}Di_}
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package layout

import (
 "gonum.org/v1/gonum/graph"
 "gonum.org/v1/gonum/spatial/r2"
)

// LayoutR2 implements graph layout updates and representations.
type LayoutR2 interface {
 // IsInitialized returns whether the Layout is initialized.
 IsInitialized() bool

 // SetCoord2 sets the coordinates of the node with the given
 // id to coords.
 SetCoord2(id int64, coords r2.Vec)

 // Coord2 returns the coordinated of the node with the given
 // id in the graph layout.
```

```
 Coord2(id int64) r2.Vec
}

// NewOptimizerR2 returns a new layout optimizer. If g implements LayoutR2 the layout
// will be updated into g, otherwise the OptimizerR2 will hold the graph layout. A nil
// value for update is a valid no-op layout update function.
func NewOptimizerR2(g graph.Graph, update func(graph.Graph, LayoutR2) bool) OptimizerR2 {
 l, ok := g.(LayoutR2)
 if
 !ok {
  l = make(coordinatesR2)
 }
 return OptimizerR2{
  g:      g,
  layout:  l,
  Updater: update,
 }
}

// coordinatesR2 is the default layout store for R2.
type coordinatesR2 map[int64]r2.Vec

func (c coordinatesR2) IsInitialized() bool            { return len(c) != 0 }
func (c coordinatesR2) SetCoord2(id int64, pos r2.Vec) { c[id] = pos }
func (c coordinatesR2) Coord2(id int64) r2.Vec         { return c[id] }

// OptimizerR2 is a helper type that holds a graph and layout
// optimization state.
type OptimizerR2 struct {
 g      graph.Graph
 layout LayoutR2

 // Updater is the function called for each call to Update.
 // It updates the OptimizerR2's spatial distribution of the
 // nodes in the backing graph.
 Updater func(graph.Graph, LayoutR2) bool
}

// Coord2 returns the location of the node with the given
// ID. The returned value is only valid if the node exists
// in the graph.
func (g OptimizerR2) Coord2(id int64) r2.Vec {
 return g.layout.Coord2(id)
}

// Update
 updates the locations of the nodes in the graph
// according to the provided update function. It returns whether
```

```
// the update function is able to further refine the graph's
// node locations.
func (g OptimizerR2) Update() bool {
 if g.Updater == nil {
  return false
 }
 return g.Updater(g.g, g.layout)
}

// LayoutNodeR2 implements the GraphR2 interface.
func (g OptimizerR2) LayoutNodeR2(id int64) NodeR2 {
 n := g.g.Node(id)
 if n == nil {
  return NodeR2{}
 }
 return NodeR2{Node: n, Coord2: g.Coord2(id)}
}

// Node returns the node with the given ID if it exists
// in the graph, and nil otherwise.
func (g OptimizerR2) Node(id int64) graph.Node { return g.g.Node(id) }

// Nodes returns all the nodes in the graph.
func (g OptimizerR2) Nodes() graph.Nodes { return g.g.Nodes() }

// From returns all nodes that can be reached directly
// from the node with the given ID.
func (g OptimizerR2) From(id int64) graph.Nodes { return g.g.From(id) }

// HasEdgeBetween returns whether an edge exists
 between
// nodes with IDs xid and yid without considering direction.
func (g OptimizerR2) HasEdgeBetween(xid, yid int64) bool { return g.g.HasEdgeBetween(xid, yid) }

// Edge returns the edge from u to v, with IDs uid and vid,
// if such an edge exists and nil otherwise. The node v
// must be directly reachable from u as defined by the
// From method.
func (g OptimizerR2) Edge(uid, vid int64) graph.Edge { return g.g.Edge(uid, vid) }
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-->

{{define "robots"}}
 <meta name="robots" content="noindex">
{{end}}
```

```
{{define "main-styles"}}
 <link href="/static/frontend/unit/licenses/licenses.min.css?version={{.AppVersionLabel}}" rel="stylesheet">
{{end}}

{{define "main-header"}}
 {{template "unit-header" .}}
{{end}}

{{define "main-content"}}
 {{block "licenses" .Details}}{{end}}
{{end}}

{{define "licenses"}}
 {{range .Licenses}}
   <section class="License" id="{{.Anchor}}">
     <h2 class="go-textTitle">
       <div id="#{{.Anchor}}">{{range $i, $e := .Types}}{{if $i}}, {{end}}{{$e}}{{end}}</div>
     </h2>
     <p>This is not legal advice. <a href="/license-policy">Read disclaimer.</a></p>
     <pre class="License-contents">{{printf "%s" .Contents}}</pre>
   </section>
   <div class="License-source go-textSubtle">Source: {{.Source}}</div>
 {{end}}
{{end}}
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// Package quat provides the quaternion numeric type and functions.
//
// For a good treatment of uses and behaviors of quaternions, see
// the interactive videos by Ben Eater and Grant Sanderson here
// https://eater.net/quaternions.
package quat // imports "gonum.org/v1/gonum/num/quat"
graph{{SUBGR{SUBGR}SUBGR}SUBGR{SUBGR{SUBGR}}}
graph{{AAA}AAAAAA}
graph{{g3{}g2}}
graph{</></><->}
graph{{diGH}}
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package gonum

import (
 "math"
```

```
 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
)

// Dlaqp2 computes a QR factorization with column pivoting of the block A[offset:m, 0:n]
// of the mn matrix A. The block A[0:offset, 0:n] is accordingly pivoted, but not factorized.
//
// On exit, the upper triangle of block A[offset:m, 0:n] is the triangular factor obtained.
// The elements in block A[offset:m, 0:n] below the diagonal, together with tau, represent
// the orthogonal matrix Q as a product of elementary reflectors.
//
// offset is number of rows of the matrix A that must be pivoted but not factorized.
// offset must not be negative otherwise Dlaqp2 will panic.
//
// On exit, jpvt holds the permutation that was applied; the jth column of A*P was the
// jpvt[j] column of A. jpvt must have length n, otherwise Dlaqp2 will
 panic.
//
// On exit tau holds the scalar factors of the elementary reflectors. It must have length
// at least min(m-offset, n) otherwise Dlaqp2 will panic.
//
// vn1 and vn2 hold the partial and complete column norms respectively. They must have length n,
// otherwise Dlaqp2 will panic.
//
// work must have length n, otherwise Dlaqp2 will panic.
//
// Dlaqp2 is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dlaqp2(m, n, offset int, a []float64, lda int, jpvt []int, tau, vn1, vn2, work []float64) {
 switch {
 case m < 0:
  panic(mLT0)
 case n < 0:
  panic(nLT0)
 case offset < 0:
  panic(offsetLT0)
 case offset > m:
  panic(offsetGTM)
 case lda < max(1, n):
  panic(badLdA)
 }

 // Quick return if possible.
 if m == 0 || n == 0 {
  return
 }

 mn := min(m-offset, n)
```

```
switch {
case len(a) < (m-1)*lda+n:
 panic(shortA)
case len(jpvt) != n:
 panic(badLenJpvt)
case len(tau) < mn:
 panic(shortTau)
case len(vn1) < n:
 panic(shortVn1)
case len(vn2)
< n:
 panic(shortVn2)
case len(work) < n:
 panic(shortWork)
}

tol3z := math.Sqrt(dlamchE)

bi := blas64.Implementation()

// Compute factorization.
for i := 0; i < mn; i++ {
 offpi := offset + i

 // Determine ith pivot column and swap if necessary.
 p := i + bi.Idamax(n-i, vn1[i:], 1)
 if p != i {
  bi.Dswap(m, a[p:], lda, a[i:], lda)
  jpvt[p], jpvt[i] = jpvt[i], jpvt[p]
  vn1[p] = vn1[i]
  vn2[p] = vn2[i]
 }

 // Generate elementary reflector H_i.
 if offpi < m-1 {
  a[offpi*lda+i], tau[i] = impl.Dlarfg(m-offpi, a[offpi*lda+i], a[(offpi+1)*lda+i:], lda)
 } else {
  tau[i] = 0
 }

 if i < n-1 {
  // Apply H_i to A[offset+i:m, i:n] from the left.
  aii := a[offpi*lda+i]
  a[offpi*lda+i] = 1
  impl.Dlarf(blas.Left, m-offpi, n-i-1, a[offpi*lda+i:], lda, tau[i], a[offpi*lda+i+1:], lda, work)
  a[offpi*lda+i] = aii
 }
```

```
  // Update partial column norms.
  for j := i + 1; j < n; j++ {
   if vn1[j] == 0 {
    continue
   }

   // The following marked lines
 follow from the
   // analysis in Lapack Working Note 176.
   r := math.Abs(a[offpi*lda+j]) / vn1[j] // *
   temp := math.Max(0, 1-r*r)            // *
   r = vn1[j] / vn2[j]                   // *
   temp2 := temp * r * r                 // *
   if temp2 < tol3z {
    var v float64
    if offpi < m-1 {
     v = bi.Dnrm2(m-offpi-1, a[(offpi+1)*lda+j:], lda)
    }
    vn1[j] = v
    vn2[j] = v
   } else {
    vn1[j] *= math.Sqrt(temp) // *
   }
  }
 }
}
graph{{{S}S}S{S}}
graph{{SUBGS{}SUBGS{{SUB{{SUBGS{SUBGS{}SUBGV}}}SUBGS{SUBGS{}SUBGV}}}SUBGV}}
graph{{DIE}{DIE}{DIE}{DIE}{}{DIE}{DIE}{DIE}{DIE}{DIE}{DIE}{DIE}}
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package distmv

import (
 "math"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/mat"
)

func TestDirichlet(t *testing.T) {
 // Data from Scipy.
 for cas, test := range []struct {
  Dir  *Dirichlet
```

```
 x    []float64
 prob float64
}{
 {
  NewDirichlet([]float64{1, 1, 1}, nil),
  []float64{0.2, 0.3, 0.5},
  2.0,
 },
 {
  NewDirichlet([]float64{0.6, 10, 8.7}, nil),
  []float64{0.2, 0.3, 0.5},
  0.24079612737071665,
 },
} {
 p := test.Dir.Prob(test.x)
 if math.Abs(p-test.prob) > 1e-14 {
  t.Errorf("Probablility mismatch. Case %v. Got %v, want %v", cas, p, test.prob)
 }
}

rnd := rand.New(rand.NewSource(1))
for cas, test := range []struct {
 Dir *Dirichlet
}{
 {
  NewDirichlet([]float64{1, 1, 1}, rnd),
 },
 {
  NewDirichlet([]float64{2, 3}, rnd),
 },
 {
  NewDirichlet([]float64{0.2, 0.3}, rnd),
 },
 {
  NewDirichlet([]float64{0.2,
4}, rnd),
 },
 {
  NewDirichlet([]float64{0.1, 4, 20}, rnd),
 },
} {
 const n = 1e5
 d := test.Dir
 dim := d.Dim()
 x := mat.NewDense(n, dim, nil)
 generateSamples(x, d)
 checkMean(t, cas, x, d, 1e-2)
 checkCov(t, cas, x, d, 1e-2)
```

```
 }
}
graph{GRAPU}
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package fd

import (
 "testing"

 "gonum.org/v1/gonum/floats"
 "gonum.org/v1/gonum/mat"
)

type CrossLaplacianTester interface {
 Func(x, y []float64) float64
 CrossLaplacian(x, y []float64) float64
}

type WrapperCL struct {
 Tester HessianTester
}

func (WrapperCL) constructZ(x, y []float64) []float64 {
 z := make([]float64, len(x)+len(y))
 copy(z, x)
 copy(z[len(x):], y)
 return z
}

func (w WrapperCL) Func(x, y []float64) float64 {
 z := w.constructZ(x, y)
 return w.Tester.Func(z)
}

func (w WrapperCL) CrossLaplacian(x, y []float64) float64 {
 z := w.constructZ(x, y)
 hess := mat.NewSymDense(len(z), nil)
 w.Tester.Hess(hess, z)
 // The CrossLaplacian is the trace of the off-diagonal block of the Hessian.
 var l float64
 for i := 0; i < len(x); i++ {
  l += hess.At(i, i+len(x))
 }
 return l
}
```

```
func TestCrossLaplacian(t *testing.T)
 {
 for cas, test := range []struct {
  l        CrossLaplacianTester
  x, y     []float64
  settings *Settings
  tol      float64
 }{
  {
   l:   WrapperCL{Watson{}},
   x:   []float64{0.2, 0.3},
   y:   []float64{0.1, 0.4},
   tol: 1e-3,
  },
  {
   l:   WrapperCL{Watson{}},
   x:   []float64{2, 3, 1},
   y:   []float64{1, 4, 1},
   tol: 1e-3,
  },
  {
   l:   WrapperCL{ConstFunc(6)},
   x:   []float64{2, -3, 1},
   y:   []float64{1, 4, -5},
   tol: 1e-6,
  },
  {
   l:   WrapperCL{LinearFunc{w: []float64{10, 6, -1, 5}, c: 5}},
   x:   []float64{3, 1},
   y:   []float64{8, 6},
   tol: 1e-6,
  },
  {
   l: WrapperCL{QuadFunc{
    a: mat.NewSymDense(4, []float64{
     10, 2, 1, 9,
     2, 5, -3, 4,
     1, -3, 6, 2,
     9, 4, 2, -14,
    }),
    b: mat.NewVecDense(4, []float64{3, -2, -1, 4}),
    c: 5,
   }},
   x:   []float64{-1.6, -3},
   y:   []float64{1.8, 3.4},
   tol: 1e-6,
  },
```

```
 } {
  got := CrossLaplacian(test.l.Func, test.x, test.y, test.settings)
  want := test.l.CrossLaplacian(test.x,
 test.y)
  if !floats.EqualWithinAbsOrRel(got, want, test.tol, test.tol) {
   t.Errorf("Cas %d: CrossLaplacian mismatch serial. got %v, want %v", cas, got, want)
  }

  // Test that concurrency works.
  settings := test.settings
  if settings == nil {
   settings = &Settings{}
  }
  settings.Concurrent = true
  got2 := CrossLaplacian(test.l.Func, test.x, test.y, settings)
  if !floats.EqualWithinAbsOrRel(got, got2, 1e-6, 1e-6) {
   t.Errorf("Cas %d: Laplacian mismatch. got %v, want %v", cas, got2, got)
  }
 }
}
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package path_test

import (
 "fmt"
 "math"

 "gonum.org/v1/gonum/graph/path"
 "gonum.org/v1/gonum/graph/simple"
)

func ExampleBellmanFordFrom_negativecycles() {
 // BellmanFordFrom can be used to find a non-exhaustive
 // set of negative cycles in a graph.

 // Construct a graph with a negative cycle.
 edges := []simple.WeightedEdge{
  {F: simple.Node('a'), T: simple.Node('b'), W: -2},
  {F: simple.Node('a'), T: simple.Node('f'), W: 2},
  {F: simple.Node('b'), T: simple.Node('c'), W: 6},
  {F: simple.Node('c'), T: simple.Node('a'), W: -5},
  {F: simple.Node('d'), T: simple.Node('c'), W: -3},
  {F: simple.Node('d'), T: simple.Node('e'), W: 8},
  {F: simple.Node('e'), T: simple.Node('b'), W: 9},
  {F: simple.Node('e'), T: simple.Node('c'), W: 2},
```

```
 }
 g := simple.NewWeightedDirectedGraph(0, math.Inf(1))
 for _, e := range edges
 {
  g.SetWeightedEdge(e)
 }

 // Add a zero-cost path to all nodes from a new node Q.
 nodes := g.Nodes()
 for nodes.Next() {
  g.SetWeightedEdge(simple.WeightedEdge{F: simple.Node('Q'), T: nodes.Node()})
 }

 // Find the shortest path to each node from Q.
 pt, ok := path.BellmanFordFrom(simple.Node('Q'), g)
 if ok {
  fmt.Println("no negative cycle present")
  return
 }
 for _, id := range []int64{'a', 'b', 'c', 'd', 'e', 'f'} {
  p, w := pt.To(id)
  if math.IsInf(w, -1) {
   fmt.Printf("negative cycle in path to %c path:%c\n", id, p)
  }
 }

 // Output:
 // negative cycle in path to a path:[a b c a]
 // negative cycle in path to b path:[b c a b]
 // negative cycle in path to c path:[c a b c]
 // negative cycle in path to f path:[a b c a f]
}

func ExampleFloydWarshall_negativecycles() {
 // FloydWarshall can be used to find an exhaustive
 // set of nodes in negative cycles in a graph.

 // Construct a graph with a negative cycle.
 edges := []simple.WeightedEdge{
  {F: simple.Node('a'),
 T: simple.Node('f'), W: -1},
  {F: simple.Node('b'), T: simple.Node('a'), W: 1},
  {F: simple.Node('b'), T: simple.Node('c'), W: -1},
  {F: simple.Node('b'), T: simple.Node('d'), W: 1},
  {F: simple.Node('c'), T: simple.Node('b'), W: 0},
  {F: simple.Node('e'), T: simple.Node('a'), W: 1},
  {F: simple.Node('f'), T: simple.Node('e'), W: -1},
 }
```

```
g := simple.NewWeightedDirectedGraph(0, math.Inf(1))
for _, e := range edges {
 g.SetWeightedEdge(e)
}

// Find the shortest path to each node from Q.
pt, ok := path.FloydWarshall(g)
if ok {
 fmt.Println("no negative cycle present")
 return
}

ids := []int64{'a', 'b', 'c', 'd', 'e', 'f'}

for _, id := range ids {
 if math.IsInf(pt.Weight(id, id), -1) {
  fmt.Printf("%c is in a negative cycle\n", id)
 }
}

for _, uid := range ids {
 for _, vid := range ids {
  _, w, unique := pt.Between(uid, vid)
  if math.IsInf(w, -1) {
   fmt.Printf("negative cycle in path from %c to %c unique=%t\n", uid, vid, unique)
  }
 }
}

// Output:
//
a is in a negative cycle
// b is in a negative cycle
// c is in a negative cycle
// e is in a negative cycle
// f is in a negative cycle
// negative cycle in path from a to a unique=false
// negative cycle in path from a to e unique=false
// negative cycle in path from a to f unique=false
// negative cycle in path from b to a unique=false
// negative cycle in path from b to b unique=false
// negative cycle in path from b to c unique=false
// negative cycle in path from b to d unique=false
// negative cycle in path from b to e unique=false
// negative cycle in path from b to f unique=false
// negative cycle in path from c to a unique=false
// negative cycle in path from c to b unique=false
// negative cycle in path from c to c unique=false
```

```
 // negative cycle in path from c to d unique=false
 // negative cycle in path from c to e unique=false
 // negative cycle in path from c to f unique=false
 // negative cycle in path from e to a unique=false
 // negative cycle
 in path from e to e unique=false
 // negative cycle in path from e to f unique=false
 // negative cycle in path from f to a unique=false
 // negative cycle in path from f to e unique=false
 // negative cycle in path from f to f unique=false
}
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package testlapack

import (
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
 "gonum.org/v1/gonum/floats"
)

type Dlarfer interface {
 Dlarf(side blas.Side, m, n int, v []float64, incv int, tau float64, c []float64, ldc int, work []float64)
}

func DlarfTest(t *testing.T, impl Dlarfer) {
 rnd := rand.New(rand.NewSource(1))
 for i, test := range []struct {
  m, n, ldc    int
  incv, lastv  int
  lastr, lastc int
  tau          float64
 }{
  {
   m:   3,
   n:   2,
   ldc: 2,

   incv:  4,
   lastv: 1,

   lastr: 2,
```

lastc: 1,

tau: 2,
},
{
m: 2,
n: 3,
ldc: 3,

incv: 4,
lastv: 1,

lastr: 1,
lastc: 2,

tau: 2,
},
{
m: 2,
n: 3,
ldc: 3,

incv: 4,
lastv: 1,

lastr: 0,
lastc: 1,

tau: 2,
},
{
m: 2,
n:
3,
ldc: 3,

incv: 4,
lastv: 0,

lastr: 0,
lastc: 1,

tau: 2,
},
{
m: 10,
n: 10,
ldc: 10,

```
 incv:  4,
 lastv: 6,

 lastr: 9,
 lastc: 8,

 tau: 2,
},
} {
// Construct a random matrix.
c := make([]float64, test.ldc*test.m)
for i := 0; i <= test.lastr; i++ {
 for j := 0; j <= test.lastc; j++ {
  c[i*test.ldc+j] = rnd.Float64()
 }
}
cCopy := make([]float64, len(c))
copy(cCopy, c)
cCopy2 := make([]float64, len(c))
copy(cCopy2, c)

// Test with side right.
sz := max(test.m, test.n) // so v works for both right and left side.
v := make([]float64, test.incv*sz+1)
// Fill with nonzero entries up until lastv.
for i := 0; i <= test.lastv; i++ {
 v[i*test.incv] = rnd.Float64()
}
// Construct h explicitly to compare.
h := make([]float64, test.n*test.n)
for i := 0; i < test.n; i++ {
 h[i*test.n+i] = 1
}
hMat := blas64.General{
 Rows:   test.n,
 Cols:   test.n,
 Stride: test.n,
 Data:   h,
}
vVec
:= blas64.Vector{
 Inc:  test.incv,
 Data: v,
}
blas64.Ger(-test.tau, vVec, vVec, hMat)

// Apply multiplication (2nd copy is to avoid aliasing).
```

```
 cMat := blas64.General{
  Rows:   test.m,
  Cols:   test.n,
  Stride: test.ldc,
  Data:   cCopy,
 }
 cMat2 := blas64.General{
  Rows:   test.m,
  Cols:   test.n,
  Stride: test.ldc,
  Data:   cCopy2,
 }
 blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, cMat2, hMat, 0, cMat)

 // cMat now stores the true answer. Compare with the function call.
 work := make([]float64, sz)
 impl.Dlarf(blas.Right, test.m, test.n, v, test.incv, test.tau, c, test.ldc, work)
 if !floats.EqualApprox(c, cMat.Data, 1e-14) {
  t.Errorf("Dlarf mismatch right, case %v. Want %v, got %v", i, cMat.Data, c)
 }

 // Test on the left side.
 copy(c, cCopy2)
 copy(cCopy, c)
 // Construct h.
 h = make([]float64, test.m*test.m)
 for i := 0; i < test.m; i++ {
  h[i*test.m+i] = 1
 }
 hMat = blas64.General{
  Rows:   test.m,
  Cols:   test.m,
  Stride:
test.m,
  Data:   h,
 }
 blas64.Ger(-test.tau, vVec, vVec, hMat)
 blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, hMat, cMat2, 0, cMat)
 impl.Dlarf(blas.Left, test.m, test.n, v, test.incv, test.tau, c, test.ldc, work)
 if !floats.EqualApprox(c, cMat.Data, 1e-14) {
  t.Errorf("Dlarf mismatch left, case %v. Want %v, got %v", i, cMat.Data, c)
 }
}
}
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```

```
// Package community provides graph community detection functions.
package community // import "gonum.org/v1/gonum/graph/community"
graph{Edge[]{{Edge[]{{Edge[]{Edge[]}Edge[]}Edge[]}}}}
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package testblas

import (
 "fmt"
 "testing"

 "golang.org/x/exp/rand"
)

type Zswaper interface {
 Zswap(n int, x []complex128, incX int, y []complex128, incY int)
}

func ZswapTest(t *testing.T, impl Zswaper) {
 rnd := rand.New(rand.NewSource(1))
 for n := 0; n < 20; n++ {
  for _, inc := range allPairs([]int{-5, -1, 1, 2, 5, 10}, []int{-3, -1, 1, 3, 7, 12}) {
   incX := inc[0]
   incY := inc[1]
   aincX := abs(incX)
   aincY := abs(incY)

   var x, y []complex128
   if n > 0 {
    x = make([]complex128, (n-1)*aincX+1)
    y = make([]complex128, (n-1)*aincY+1)
   }
   for i := range x {
    x[i] = znan
   }
   for i := range y {
    y[i] = znan
   }
   for i := 0; i < n; i++ {
    x[i*aincX] = complex(rnd.NormFloat64(), rnd.NormFloat64())
    y[i*aincY] = complex(rnd.NormFloat64(), rnd.NormFloat64())
   }

   xWant := make([]complex128,
 len(x))
   for i := range xWant {
```

```
    xWant[i] = znan
   }
   yWant := make([]complex128, len(y))
   for i := range yWant {
    yWant[i] = znan
   }
   if incX*incY > 0 {
    for i := 0; i < n; i++ {
     xWant[i*aincX] = y[i*aincY]
     yWant[i*aincY] = x[i*aincX]
    }
   } else {
    for i := 0; i < n; i++ {
     xWant[(n-i-1)*aincX] = y[i*aincY]
     yWant[(n-i-1)*aincY] = x[i*aincX]
    }
   }

   impl.Zswap(n, x, incX, y, incY)

   prefix := fmt.Sprintf("Case n=%v,incX=%v,incY=%v:", n, incX, incY)
   if !zsame(x, xWant) {
    t.Errorf("%v: unexpected x:\nwant %v\ngot %v", prefix, xWant, x)
   }
   if !zsame(y, yWant) {
    t.Errorf("%v: unexpected y:\nwant %v\ngot %v", prefix, yWant, y)
   }
  }
 }
}
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// +build appengine safe

package mat

import "reflect"

var sizeOfFloat64 = int(reflect.TypeOf(float64(0)).Size())

// offset returns the number of float64 values b[0] is after a[0].
func offset(a, b []float64) int {
 va0 := reflect.ValueOf(a).Index(0)
 vb0 := reflect.ValueOf(b).Index(0)
 if va0.Addr() == vb0.Addr() {
  return 0
```

```
 }
 // This expression must be atomic with respect to GC moves.
 // At this stage this is true, because the GC does not
 // move. See https://golang.org/issue/12445.
 return int(vb0.UnsafeAddr()-va0.UnsafeAddr()) / sizeOfFloat64
}

var sizeOfComplex128 = int(reflect.TypeOf(complex128(0)).Size())

// offsetComplex returns the number of complex128 values b[0] is after a[0].
func offsetComplex(a, b []complex128) int {
 va0 := reflect.ValueOf(a).Index(0)
 vb0 := reflect.ValueOf(b).Index(0)
 if va0.Addr()
 == vb0.Addr() {
  return 0
 }
 // This expression must be atomic with respect to GC moves.
 // At this stage this is true, because the GC does not
 // move. See https://golang.org/issue/12445.
 return int(vb0.UnsafeAddr()-va0.UnsafeAddr()) / sizeOfComplex128
}
graph{{{grax{grar}grar}}}
graph{<"\"\}\\}\}\}\\}\\}\>}
graph{{GRA}}
graph{{{<<{{{{DigwDigwDigwrr___J__w_FgVIeT_O_T_AbhplTNn_EOI_Nz__Lhs_dA}}Digw{Digz}}}>>}}}
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// Package lp implements routines to solve linear programming problems.
package lp // import "gonum.org/v1/gonum/optimize/convex/lp"
graph{gz{gv}}
graph{{stric}}
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// +build !amd64 noasm appengine safe

package f64

// ScalUnitary is
//  for i := range x {
//   x[i] *= alpha
//  }
func ScalUnitary(alpha float64, x []float64) {
 for i := range x {
```

```
  x[i] *= alpha
 }
}

// ScalUnitaryTo is
//  for i, v := range x {
//   dst[i] = alpha * v
//  }
func ScalUnitaryTo(dst []float64, alpha float64, x []float64) {
 for i, v := range x {
  dst[i] = alpha * v
 }
}

// ScalInc is
//  var ix uintptr
//  for i := 0; i < int(n); i++ {
//   x[ix] *= alpha
//   ix += incX
//  }
func ScalInc(alpha float64, x []float64, n, incX uintptr) {
 var ix uintptr
 for i := 0; i < int(n); i++ {
  x[ix] *= alpha
  ix += incX
 }
}

// ScalIncTo is
//  var idst, ix uintptr
//  for i := 0; i < int(n); i++ {
//   dst[idst] = alpha * x[ix]
//   ix += incX
//   idst += incDst
//  }
func ScalIncTo(dst []float64, incDst uintptr,
 alpha float64, x []float64, n, incX uintptr) {
 var idst, ix uintptr
 for i := 0; i < int(n); i++ {
  dst[idst] = alpha * x[ix]
  ix += incX
  idst += incDst
 }
}
digraph {
 A -> B
 C
}
```

```
graph{strh{{{strh{{{strd}}}}}}}
graph{{digrap4}{digrap4}}
graph{"\=""\t"}
graph{w:w K:w w:w w:w K:w w:w w:w w:w K:w w:w K:w w:w w:w K:w w:w w:w w:K}
graph{{I{{DIGRAPc{{DIGRAPy}{DIGRAPy}}DIGRAPy}}}}
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package dualquat

import (
 "fmt"
 "strings"

 "gonum.org/v1/gonum/num/dual"
 "gonum.org/v1/gonum/num/quat"
)

// Number is a float64 precision dual quaternion. A dual quaternion
// is a hypercomplex number composed of two quaternions, q+q,
// where =0, but 0. Here, q is termed the real and q the dual.
type Number struct {
 Real, Dual quat.Number
}

var (
 zero     Number
 zeroQuat quat.Number
)

// Format implements fmt.Formatter.
func (d Number) Format(fs fmt.State, c rune) {
 prec, pOk := fs.Precision()
 if !pOk {
  prec = -1
 }
 width, wOk := fs.Width()
 if !wOk {
  width = -1
 }
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T{Real:%#v, Dual:%#v}", d, d.Real, d.Dual)
   return
  }
  if fs.Flag('+') {
```

```
  fmt.Fprintf(fs, "{Real:%+v, Dual:%+v}", d.Real, d.Dual)
  return
 }
 c = 'g'
 prec = -1
 fallthrough
case
'e', 'E', 'f', 'F', 'g', 'G':
 fre := fmtString(fs, c, prec, width, false)
 fim := fmtString(fs, c, prec, width, true)
 fmt.Fprintf(fs, fmt.Sprintf("(%s+%[2]s)", fre, fim), d.Real, d.Dual)
default:
 fmt.Fprintf(fs, "%%!%c(%T=%[2]v)", c, d)
 return
}
}

// This is horrible, but it's what we have.
func fmtString(fs fmt.State, c rune, prec, width int, wantPlus bool) string {
 var b strings.Builder
 b.WriteByte('%')
 for _, f := range "0+- " {
  if fs.Flag(int(f)) || (f == '+' && wantPlus) {
   b.WriteByte(byte(f))
  }
 }
 if width >= 0 {
  fmt.Fprint(&b, width)
 }
 if prec >= 0 {
  b.WriteByte('.')
  if prec > 0 {
   fmt.Fprint(&b, prec)
  }
 }
 b.WriteRune(c)
 return b.String()
}

// Add returns the sum of x and y.
func Add(x, y Number) Number {
 return Number{
  Real: quat.Add(x.Real, y.Real),
  Dual: quat.Add(x.Dual, y.Dual),
 }
}

// Sub returns the difference of x and y, x-y.
```

```
func Sub(x, y Number) Number {
 return Number{
  Real: quat.Sub(x.Real, y.Real),
  Dual: quat.Sub(x.Dual,
 y.Dual),
 }
}

// Mul returns the dual product of x and y.
func Mul(x, y Number) Number {
 return Number{
  Real: quat.Mul(x.Real, y.Real),
  Dual: quat.Add(quat.Mul(x.Real, y.Dual), quat.Mul(x.Dual, y.Real)),
 }
}

// Inv returns the dual inverse of d.
func Inv(d Number) Number {
 return Number{
  Real: quat.Inv(d.Real),
  Dual: quat.Scale(-1, quat.Mul(d.Dual, quat.Inv(quat.Mul(d.Real, d.Real)))),
 }
}

// Conj returns the dual quaternion conjugate of d+d, d-d.
func Conj(d Number) Number {
 return Number{
  Real: quat.Conj(d.Real),
  Dual: quat.Scale(-1, quat.Conj(d.Dual)),
 }
}

// ConjDual returns the dual conjugate of d+d, d-d.
func ConjDual(d Number) Number {
 return Number{
  Real: d.Real,
  Dual: quat.Scale(-1, d.Dual),
 }
}

// ConjQuat returns the quaternion conjugate of d+d, d+d.
func ConjQuat(d Number) Number {
 return Number{
  Real: quat.Conj(d.Real),
  Dual: quat.Conj(d.Dual),
 }
}
```

```
// Scale returns d scaled by f.
func Scale(f float64, d Number) Number {
 return
 Number{Real: quat.Scale(f, d.Real), Dual: quat.Scale(f, d.Dual)}
}

// Abs returns the absolute value of d.
func Abs(d Number) dual.Number {
 return dual.Number{
  Real: quat.Abs(d.Real),
  Emag: quat.Abs(d.Dual),
 }
}

func addRealQuat(r float64, q quat.Number) quat.Number {
 q.Real += r
 return q
}

func addQuatReal(q quat.Number, r float64) quat.Number {
 q.Real += r
 return q
}

func subRealQuat(r float64, q quat.Number) quat.Number {
 q.Real = r - q.Real
 return q
}

func subQuatReal(q quat.Number, r float64) quat.Number {
 q.Real -= r
 return q
}
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package testlapack

import (
 "math"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
)
```

```
type Dsytd2er interface {
 Dsytd2(uplo blas.Uplo, n int, a []float64, lda int, d, e, tau []float64)
}

func Dsytd2Test(t *testing.T, impl Dsytd2er) {
 rnd := rand.New(rand.NewSource(1))
 for _, uplo := range []blas.Uplo{blas.Upper, blas.Lower} {
  for _, test := range []struct {
   n, lda int
  }{
   {3, 0},
   {4, 0},
   {5, 0},

   {3, 10},
   {4, 10},
   {5, 10},
  } {
   n := test.n
   lda := test.lda
   if lda == 0 {
    lda = n
   }
   a := make([]float64, n*lda)
   for i := range a {
    a[i] = rnd.NormFloat64()
   }
   aCopy := make([]float64, len(a))
   copy(aCopy, a)

   d := make([]float64, n)
   for i := range d {
    d[i] = math.NaN()
   }
   e := make([]float64, n-1)
   for i
 := range e {
    e[i] = math.NaN()
   }
   tau := make([]float64, n-1)
   for i := range tau {
    tau[i] = math.NaN()
   }

   impl.Dsytd2(uplo, n, a, lda, d, e, tau)

   // Construct Q
```

```
qMat := blas64.General{
 Rows:   n,
 Cols:   n,
 Stride: n,
 Data:   make([]float64, n*n),
}
qCopy := blas64.General{
 Rows:   n,
 Cols:   n,
 Stride: n,
 Data:   make([]float64, len(qMat.Data)),
}
// Set Q to I.
for i := 0; i < n; i++ {
 qMat.Data[i*qMat.Stride+i] = 1
}
for i := 0; i < n-1; i++ {
 hMat := blas64.General{
  Rows:   n,
  Cols:   n,
  Stride: n,
  Data:   make([]float64, n*n),
 }
 // Set H to I.
 for i := 0; i < n; i++ {
  hMat.Data[i*hMat.Stride+i] = 1
 }
 var vi blas64.Vector
 if uplo == blas.Upper {
  vi = blas64.Vector{
   Inc:  1,
   Data: make([]float64, n),
  }
  for j := 0; j < i; j++ {
   vi.Data[j] = a[j*lda+i+1]
  }
  vi.Data[i] = 1
 } else {
  vi = blas64.Vector{
   Inc:
1,
   Data: make([]float64, n),
  }
  vi.Data[i+1] = 1
  for j := i + 2; j < n; j++ {
   vi.Data[j] = a[j*lda+i]
  }
 }
```

```
 blas64.Ger(-tau[i], vi, vi, hMat)
 copy(qCopy.Data, qMat.Data)

 // Multiply q by the new h.
 if uplo == blas.Upper {
  blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, hMat, qCopy, 0, qMat)
 } else {
  blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, qCopy, hMat, 0, qMat)
 }
}

if !isOrthogonal(qMat) {
 t.Errorf("Q not orthogonal")
}

// Compute Q * A * Q.
aMat := blas64.General{
 Rows:   n,
 Cols:   n,
 Stride: n,
 Data:   make([]float64, len(a)),
}

for i := 0; i < n; i++ {
 for j := i; j < n; j++ {
  v := aCopy[i*lda+j]
  if uplo == blas.Lower {
   v = aCopy[j*lda+i]
  }
  aMat.Data[i*aMat.Stride+j] = v
  aMat.Data[j*aMat.Stride+i] = v
 }
}

tmp := blas64.General{
 Rows:   n,
 Cols:   n,
 Stride: n,
 Data:   make([]float64, n*n),
}

ans
:= blas64.General{
 Rows:   n,
 Cols:   n,
 Stride: n,
 Data:   make([]float64, n*n),
}
```

```
   blas64.Gemm(blas.Trans, blas.NoTrans, 1, qMat, aMat, 0, tmp)
   blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, tmp, qMat, 0, ans)

   // Compare with T.
   tMat := blas64.General{
    Rows:   n,
    Cols:   n,
    Stride: n,
    Data:   make([]float64, n*n),
   }
   for i := 0; i < n-1; i++ {
    tMat.Data[i*tMat.Stride+i] = d[i]
    tMat.Data[i*tMat.Stride+i+1] = e[i]
    tMat.Data[(i+1)*tMat.Stride+i] = e[i]
   }
   tMat.Data[(n-1)*tMat.Stride+n-1] = d[n-1]

   same := true
   for i := 0; i < n; i++ {
    for j := 0; j < n; j++ {
     if math.Abs(ans.Data[i*ans.Stride+j]-tMat.Data[i*tMat.Stride+j]) > 1e-10 {
      same = false
     }
    }
   }
   if !same {
    t.Errorf("Matrix answer mismatch")
   }
  }
 }
}
graph{{{{EB{EB}EB}}EB{{EB}EB{{EB}}}EB{EB}}}
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// license that can be found in the LICENSE file.

// Package mds provides multidimensional scaling functions.
package mds // import "gonum.org/v1/gonum/stat/mds"
graph{{{Ed3{{Ed2}}Ed3{{Ed2}}}}}
Graph{{Edg}{Edg{Edg}Edg}Edg{Edg}{Edg{Edg}Edg}}
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package fd

import "gonum.org/v1/gonum/floats"
```

```
// Gradient estimates the gradient of the multivariate function f at the
// location x. If dst is not nil, the result will be stored in-place into dst
// and returned, otherwise a new slice will be allocated first. Finite
// difference formula and other options are specified by settings. If settings is
// nil, the gradient will be estimated using the Forward formula and a default
// step size.
//
// Gradient panics if the length of dst and x is not equal, or if the derivative
// order of the formula is not 1.
func Gradient(dst []float64, f func([]float64) float64, x []float64, settings *Settings) []float64 {
 if dst == nil {
  dst = make([]float64, len(x))
 }
 if len(dst) != len(x) {
  panic("fd: slice length mismatch")
 }

 // Default settings.
 formula := Forward
 step := formula.Step
 var
 originValue float64
 var originKnown, concurrent bool

 // Use user settings if provided.
 if settings != nil {
  if !settings.Formula.isZero() {
   formula = settings.Formula
   step = formula.Step
   checkFormula(formula)
   if formula.Derivative != 1 {
    panic(badDerivOrder)
   }
  }
  if settings.Step != 0 {
   step = settings.Step
  }
  originKnown = settings.OriginKnown
  originValue = settings.OriginValue
  concurrent = settings.Concurrent
 }

 evals := len(formula.Stencil) * len(x)
 nWorkers := computeWorkers(concurrent, evals)

 hasOrigin := usesOrigin(formula.Stencil)
 // Copy x in case it is modified during the call.
```

```
xcopy := make([]float64, len(x))
if hasOrigin && !originKnown {
 copy(xcopy, x)
 originValue = f(xcopy)
}

if nWorkers == 1 {
 for i := range xcopy {
  var deriv float64
  for _, pt := range formula.Stencil {
   if pt.Loc == 0 {
    deriv += pt.Coeff * originValue
    continue
   }
   // Copying the data anew has two benefits. First,
it
   // avoids floating point issues where adding and then
   // subtracting the step don't return to the exact same
   // location. Secondly, it protects against the function
   // modifying the input data.
   copy(xcopy, x)
   xcopy[i] += pt.Loc * step
   deriv += pt.Coeff * f(xcopy)
  }
  dst[i] = deriv / step
 }
 return dst
}

sendChan := make(chan fdrun, evals)
ansChan := make(chan fdrun, evals)
quit := make(chan struct{})
defer close(quit)

// Launch workers. Workers receive an index and a step, and compute the answer.
for i := 0; i < nWorkers; i++ {
 go func(sendChan <-chan fdrun, ansChan chan<- fdrun, quit <-chan struct{}) {
  xcopy := make([]float64, len(x))
  for {
   select {
   case <-quit:
    return
   case run := <-sendChan:
    // See above comment on the copy.
    copy(xcopy, x)
    xcopy[run.idx] += run.pt.Loc * step
    run.result = f(xcopy)
    ansChan <- run
```

```
    }
   }
  }(sendChan, ansChan, quit)
 }

 // Launch the distributor. Distributor
 sends the cases to be computed.
 go func(sendChan chan<- fdrun, ansChan chan<- fdrun) {
  for i := range x {
   for _, pt := range formula.Stencil {
    if pt.Loc == 0 {
     // Answer already known. Send the answer on the answer channel.
     ansChan <- fdrun{
      idx:    i,
      pt:     pt,
      result: originValue,
     }
     continue
    }
    // Answer not known, send the answer to be computed.
    sendChan <- fdrun{
     idx: i,
     pt:  pt,
    }
   }
  }
 }(sendChan, ansChan)

 for i := range dst {
  dst[i] = 0
 }
 // Read in all of the results.
 for i := 0; i < evals; i++ {
  run := <-ansChan
  dst[run.idx] += run.pt.Coeff * run.result
 }
 floats.Scale(1/step, dst)
 return dst
}

type fdrun struct {
 idx    int
 pt     Point
 result float64
}
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// license that can be found in the LICENSE file.
```

```
// Package fd provides functions to approximate derivatives using finite differences.
package fd // import "gonum.org/v1/gonum/diff/fd"
graph{{Stric{Stric}Stric}{Stric{Stric}Stric}}
graph{{{{NODd}NODd{NODd}{NODd}NODd}NODd}NODd{NODd}{NODd}NODd}
graph{{{{edge8{{{{edge5}}{{edge5}}{{edge5}{edge5}}{}{{}}}edge5}edge5}edge5{edge5}{}}}}
graph{{digr_}{digr_{}digr_}digr_}
graph{"\\\\\\\\"}
graph{diG{diG{{{diG}}}diG{diG}{diG{diG}{diG{diG}{diG}{diG}}}diG{diG}{diG{diG}{diG}{diG}}}diG}
Graph{Graph[]Graph[]}
graph{{{digr4}digr2{{digr4}}digr7{}digr2}digr7{}digr2{{digr4}}digr2}
graph{Gs{Gy}Gs{Gs{Gy}Gs{Gt}Gs{Gt}Gs{Gy}}Gs{Gt}Gs{Gy}Gs{Gt}}
graph{"G{{i}{}"}
graph{N9{{N9{N9{N7{N9{N9{N7{N9{{N9{N9{N7}}}N9{N7}}}}}}N9{N7{{N9{N9{N7}}}N9{N7}}}}}}N9{
N7}}}
graph{Stri8}
Graph{{SubGr4}{SubGr4}{SubGr4}{SubGr4}{SubGr4}}
graph{{d_{d_}d_{d_}d_{{d_}{d_}}d_{{d_}{d_}}d_}}
graph{{INVANVNVALID}}
graph{EDGEG{{{EDGEG}EDGEG{EDGEG}{EDGEG}}}}
graph{"\Zd"{"\Z{"}"\Zd\Z{"}
graph{{{{Gra}}Grar}}
graph{GraA{{{GraA{{GraB}GraB}}}GraB}}
graph{{i=""l=""e=gra_}}
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package floats

import (
 "fmt"
)

// Set of examples for all the functions

func ExampleAdd_simple() {
 // Adding three slices together. Note that
 // the result is stored in the first slice
 s1 := []float64{1, 2, 3, 4}
 s2 := []float64{5, 6, 7, 8}
 s3 := []float64{1, 1, 1, 1}
 Add(s1, s2)
 Add(s1, s3)

 fmt.Println("s1 =", s1)
 fmt.Println("s2 =", s2)
 fmt.Println("s3 =", s3)
```

```
 // Output:
 // s1 = [7 9 11 13]
 // s2 = [5 6 7 8]
 // s3 = [1 1 1 1]
}

func ExampleAdd_newslice() {
 // If one wants to store the result in a
 // new container, just make a new slice
 s1 := []float64{1, 2, 3, 4}
 s2 := []float64{5, 6, 7, 8}
 s3 := []float64{1, 1, 1, 1}
 dst := make([]float64, len(s1))

 AddTo(dst, s1, s2)
 Add(dst, s3)

 fmt.Println("dst =", dst)
 fmt.Println("s1 =", s1)
 fmt.Println("s2 =", s2)
 fmt.Println("s3 =", s3)
 // Output:
 // dst =
 [7 9 11 13]
 // s1 = [1 2 3 4]
 // s2 = [5 6 7 8]
 // s3 = [1 1 1 1]
}

func ExampleAdd_unequallengths() {
 // If the lengths of the slices are unknown,
 // use Eqlen to check
 s1 := []float64{1, 2, 3}
 s2 := []float64{5, 6, 7, 8}

 eq := EqualLengths(s1, s2)
 if eq {
  Add(s1, s2)
 } else {
  fmt.Println("Unequal lengths")
 }
 // Output:
 // Unequal lengths
}

func ExampleAddConst() {
 s := []float64{1, -2, 3, -4}
 c := 5.0
```

```
 AddConst(c, s)

 fmt.Println("s =", s)
 // Output:
 // s = [6 3 8 1]
}

func ExampleCumProd() {
 s := []float64{1, -2, 3, -4}
 dst := make([]float64, len(s))

 CumProd(dst, s)

 fmt.Println("dst =", dst)
 fmt.Println("s =", s)
 // Output:
 // dst = [1 -2 -6 24]
 // s = [1 -2 3 -4]
}

func ExampleCumSum() {
 s := []float64{1, -2, 3, -4}
 dst := make([]float64, len(s))

 CumSum(dst, s)

 fmt.Println("dst =", dst)
 fmt.Println("s =", s)
 // Output:
 // dst = [1 -1 2 -2]
 // s = [1 -2 3 -4]
}
strict digraph {
 A -> B
 A -> B
}
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package topo

import (
 "sort"

 "gonum.org/v1/gonum/graph"
 "gonum.org/v1/gonum/graph/internal/ordered"
```

```
 "gonum.org/v1/gonum/graph/internal/set"
)

// Builder is a pure topological graph construction type.
type Builder interface {
 AddNode(graph.Node)
 SetEdge(graph.Edge)
}

// CliqueGraph builds the clique graph of g in dst using Clique and CliqueGraphEdge
// nodes and edges. The nodes returned by calls to Nodes on the nodes and edges of
// the constructed graph are the cliques and the common nodes between cliques
// respectively. The dst graph is not cleared.
func CliqueGraph(dst Builder, g graph.Undirected) {
 cliques := BronKerbosch(g)

 // Construct a consistent view of cliques in g. Sorting costs
 // us a little, but not as much as the cliques themselves.
 for _, c := range cliques {
  sort.Sort(ordered.ByID(c))
 }
 sort.Sort(ordered.BySliceIDs(cliques))

 cliqueNodes
 := make(cliqueNodeSets, len(cliques))
 for id, c := range cliques {
  s := set.NewNodesSize(len(c))
  for _, n := range c {
   s.Add(n)
  }
  ns := &nodeSet{Clique: Clique{id: int64(id), nodes: c}, nodes: s}
  dst.AddNode(ns.Clique)
  for _, n := range c {
   nid := n.ID()
   cliqueNodes[nid] = append(cliqueNodes[nid], ns)
  }
 }

 for _, cliques := range cliqueNodes {
  for i, uc := range cliques {
   for _, vc := range cliques[i+1:] {
    // Retain the nodes that contribute to the
    // edge between the cliques.
    var edgeNodes []graph.Node
    switch 1 {
    case len(uc.Clique.nodes):
     edgeNodes = []graph.Node{uc.Clique.nodes[0]}
    case len(vc.Clique.nodes):
```

```
     edgeNodes = []graph.Node{vc.Clique.nodes[0]}
    default:
     for _, n := range set.IntersectionOfNodes(uc.nodes, vc.nodes) {
      edgeNodes = append(edgeNodes, n)
     }
     sort.Sort(ordered.ByID(edgeNodes))
    }

    dst.SetEdge(CliqueGraphEdge{from: uc.Clique,
 to: vc.Clique, nodes: edgeNodes})
   }
  }
 }
}

type cliqueNodeSets map[int64][]*nodeSet

type nodeSet struct {
 Clique
 nodes set.Nodes
}

// Clique is a node in a clique graph.
type Clique struct {
 id    int64
 nodes []graph.Node
}

// ID returns the node ID.
func (n Clique) ID() int64 { return n.id }

// Nodes returns the nodes in the clique.
func (n Clique) Nodes() []graph.Node { return n.nodes }

// CliqueGraphEdge is an edge in a clique graph.
type CliqueGraphEdge struct {
 from, to Clique
 nodes    []graph.Node
}

// From returns the from node of the edge.
func (e CliqueGraphEdge) From() graph.Node { return e.from }

// To returns the to node of the edge.
func (e CliqueGraphEdge) To() graph.Node { return e.to }

// ReversedEdge returns a new CliqueGraphEdge with
// the edge end points swapped. The nodes of the
```

```
// new edge are shared with the receiver.
func (e CliqueGraphEdge) ReversedEdge() graph.Edge { e.from, e.to = e.to, e.from; return e }

// Nodes returns the common nodes
 in the cliques of the underlying graph
// corresponding to the from and to nodes in the clique graph.
func (e CliqueGraphEdge) Nodes() []graph.Node { return e.nodes }
graph{{{{{{No_}{No_}No_}No_}{No_{{No_}No_}No_}}No_}}
graph{edg_{{edg_{edg_}}edg_}}
Graph{{{diGrap}{diGrap}{diGrap}diGrap}{diGrap}{diGrap}{diGrap}{diGrap}diGrap}
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package gonum

import "math"

// Dlapy2 is the LAPACK version of math.Hypot.
//
// Dlapy2 is an internal routine. It is exported for testing purposes.
func (Implementation) Dlapy2(x, y float64) float64 {
 return math.Hypot(x, y)
}
graph{{DIE}{DIE}{DIE}{DIE}{DIE}{DIE}{DIE}{DIE}}
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package gonum

import (
 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
)

// Dsytd2 reduces a symmetric nn matrix A to symmetric tridiagonal form T by
// an orthogonal similarity transformation
//  Q * A * Q = T
// On entry, the matrix is contained in the specified triangle of a. On exit,
// if uplo == blas.Upper, the diagonal and first super-diagonal of a are
// overwritten with the elements of T. The elements above the first super-diagonal
// are overwritten with the elementary reflectors that are used with
// the elements written to tau in order to construct Q. If uplo == blas.Lower,
// the elements are written in the lower triangular region.
//
// d must have length at least n. e and tau must have length at least n-1. Dsytd2
// will panic if these sizes are not met.
```

```
//
// Q is represented as a product of elementary
 reflectors.
// If uplo == blas.Upper
//  Q = H_{n-2} * ... * H_1 * H_0
// and if uplo == blas.Lower
//  Q = H_0 * H_1 * ... * H_{n-2}
// where
//  H_i = I - tau * v * v
// where tau is stored in tau[i], and v is stored in a.
//
// If uplo == blas.Upper, v[0:i-1] is stored in A[0:i-1,i+1], v[i] = 1, and
// v[i+1:] = 0. The elements of a are
//  [ d   e  v2  v3  v4]
//  [     d   e  v3  v4]
//  [         d   e  v4]
//  [             d   e]
//  [                 d]
// If uplo == blas.Lower, v[0:i+1] = 0, v[i+1] = 1, and v[i+2:] is stored in
// A[i+2:n,i].
// The elements of a are
//  [ d               ]
//  [ e   d           ]
//  [v1   e   d       ]
//  [v1  v2   e   d   ]
//  [v1  v2  v3   e   d]
//
// Dsytd2 is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dsytd2(uplo blas.Uplo, n int, a []float64, lda int, d, e, tau []float64) {
 switch {
 case uplo != blas.Upper && uplo != blas.Lower:
  panic(badUplo)
 case n < 0:
  panic(nLT0)
 case
 lda < max(1, n):
  panic(badLdA)
 }

 // Quick return if possible.
 if n == 0 {
  return
 }

 switch {
 case len(a) < (n-1)*lda+n:
  panic(shortA)
 case len(d) < n:
```

```
 panic(shortD)
case len(e) < n-1:
 panic(shortE)
case len(tau) < n-1:
 panic(shortTau)
}

bi := blas64.Implementation()

if uplo == blas.Upper {
 // Reduce the upper triangle of A.
 for i := n - 2; i >= 0; i-- {
  // Generate elementary reflector H_i = I - tau * v * v to
  // annihilate A[i:i-1, i+1].
  var taui float64
  a[i*lda+i+1], taui = impl.Dlarfg(i+1, a[i*lda+i+1], a[i+1:], lda)
  e[i] = a[i*lda+i+1]
  if taui != 0 {
   // Apply H_i from both sides to A[0:i,0:i].
   a[i*lda+i+1] = 1

   // Compute x := tau * A * v storing x in tau[0:i].
   bi.Dsymv(uplo, i+1, taui, a, lda, a[i+1:], lda, 0, tau, 1)

   // Compute w := x - 1/2 * tau * (x * v) * v.
   alpha := -0.5 * taui * bi.Ddot(i+1, tau, 1, a[i+1:], lda)
   bi.Daxpy(i+1, alpha, a[i+1:], lda, tau, 1)

   // Apply the transformation as a rank-2
update
   // A = A - v * w - w * v.
   bi.Dsyr2(uplo, i+1, -1, a[i+1:], lda, tau, 1, a, lda)
   a[i*lda+i+1] = e[i]
  }
  d[i+1] = a[(i+1)*lda+i+1]
  tau[i] = taui
 }
 d[0] = a[0]
 return
}
// Reduce the lower triangle of A.
for i := 0; i < n-1; i++ {
 // Generate elementary reflector H_i = I - tau * v * v to
 // annihilate A[i+2:n, i].
 var taui float64
 a[(i+1)*lda+i], taui = impl.Dlarfg(n-i-1, a[(i+1)*lda+i], a[min(i+2, n-1)*lda+i:], lda)
 e[i] = a[(i+1)*lda+i]
 if taui != 0 {
```

```
  // Apply H_i from both sides to A[i+1:n, i+1:n].
  a[(i+1)*lda+i] = 1

  // Compute x := tau * A * v, storing y in tau[i:n-1].
  bi.Dsymv(uplo, n-i-1, taui, a[(i+1)*lda+i+1:], lda, a[(i+1)*lda+i:], lda, 0, tau[i:], 1)

  // Compute w := x - 1/2 * tau * (x * v) * v.
  alpha := -0.5 * taui * bi.Ddot(n-i-1, tau[i:], 1, a[(i+1)*lda+i:], lda)
  bi.Daxpy(n-i-1, alpha, a[(i+1)*lda+i:], lda, tau[i:], 1)

  // Apply the transformation as a rank-2 update
  // A = A - v * w - w * v.
  bi.Dsyr2(uplo,
 n-i-1, -1, a[(i+1)*lda+i:], lda, tau[i:], 1, a[(i+1)*lda+i+1:], lda)
  a[(i+1)*lda+i] = e[i]
 }
 d[i] = a[i*lda+i]
 tau[i] = taui
}
d[n-1] = a[(n-1)*lda+n-1]
}
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package distuv

import (
 "sort"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/floats"
)

func TestChiSquaredProb(t *testing.T) {
 for _, test := range []struct {
  x, k, want float64
 }{
  {10, 3, 0.0085003666025203432},
  {2.3, 3, 0.19157345407042367},
  {0.8, 0.2, 0.080363259903912673},
 } {
  pdf := ChiSquared{test.k, nil}.Prob(test.x)
  if !floats.EqualWithinAbsOrRel(pdf, test.want, 1e-10, 1e-10) {
   t.Errorf("Pdf mismatch, x = %v, K = %v. Got %v, want %v", test.x, test.k, pdf, test.want)
  }
```

```
 }
}

func TestChiSquaredCDF(t *testing.T) {
 for _, test := range []struct {
  x, k, want float64
 }{
  // Values calculated with scipy.stats.chi2.cdf
  {0, 1, 0},
  {0.01, 5, 5.3002700426865167e-07},
  {0.05, 3, 0.002929332764619924},
  {0.5, 2, 0.22119921692859512},
  {0.95, 3, 0.1866520918701263},
  {0.99, 5, 0.036631697220869196},
  {1,
 1, 0.68268949213708596},
  {1.5, 4, 0.17335853270322427},
  {10, 10, 0.55950671493478743},
  {25, 15, 0.95005656637357172},
 } {
  cdf := ChiSquared{test.k, nil}.CDF(test.x)
  if !floats.EqualWithinAbsOrRel(cdf, test.want, 1e-10, 1e-10) {
   t.Errorf("CDF mismatch, x = %v, K = %v. Got %v, want %v", test.x, test.k, cdf, test.want)
  }
 }
}

func TestChiSquared(t *testing.T) {
 src := rand.New(rand.NewSource(1))
 for i, b := range []ChiSquared{
  {3, src},
  {1.5, src},
  {0.9, src},
 } {
  testChiSquared(t, b, i)
 }
}

func testChiSquared(t *testing.T, c ChiSquared, i int) {
 const (
  tol  = 1e-2
  n    = 1e6
  bins = 50
 )
 x := make([]float64, n)
 generateSamples(x, c)
 sort.Float64s(x)
```

```
 testRandLogProbContinuous(t, i, 0, x, c, tol, bins)
 checkMean(t, i, x, c, tol)
 checkVarAndStd(t, i, x, c, tol)
 checkExKurtosis(t, i, x, c, 7e-2)
 checkProbContinuous(t, i, x, c, 1e-3)
 checkQuantileCDFSurvival(t, i, x, c, 1e-2)
}
graph{Di{Di}{Di{Di{Di}{Di{Di}Di}Di}}}
graph{{SUBGRAPHE}{SUBGRAPHP}}
digraph{z[I=e]}
graph{{Digrh}Digrh{{Digrh}Digrr}}
graph{{stria{{{{stria}stria{stria}}}stria{}stria{stria}}}stria{stria}}
// This file is dual licensed under CC0 and The gonum license.
//
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//
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//go:generate ./makeinternal.bash

package dot

import (
 "fmt"
 "io"
 "io/ioutil"

 "gonum.org/v1/gonum/graph/formats/dot/ast"
 "gonum.org/v1/gonum/graph/formats/dot/internal/lexer"
 "gonum.org/v1/gonum/graph/formats/dot/internal/parser"
)

// ParseFile parses the given Graphviz DOT file into an AST.
func ParseFile(path string) (*ast.File, error) {
 buf, err := ioutil.ReadFile(path)
 if err != nil {
  return nil, err
 }
 return ParseBytes(buf)
}

// Parse parses the given Graphviz DOT file into an AST, reading from r.
func Parse(r io.Reader) (*ast.File, error) {
 buf, err := ioutil.ReadAll(r)
```

```
 if err != nil {
  return nil, err
 }
 return
 ParseBytes(buf)
}

// ParseBytes parses the given Graphviz DOT file into an AST, reading from b.
func ParseBytes(b []byte) (*ast.File, error) {
 l := lexer.NewLexer(b)
 p := parser.NewParser()
 file, err := p.Parse(l)
 if err != nil {
  return nil, err
 }
 f, ok := file.(*ast.File)
 if !ok {
  return nil, fmt.Errorf("invalid file type; expected *ast.File, got %T", file)
 }
 if err := check(f); err != nil {
  return nil, err
 }
 return f, nil
}

// ParseString parses the given Graphviz DOT file into an AST, reading from s.
func ParseString(s string) (*ast.File, error) {
 return ParseBytes([]byte(s))
}
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// Package distmv provides multivariate random distribution types.
package distmv // import "gonum.org/v1/gonum/stat/distmv"
Graph{{SubD{SubD{SubF}}}}
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package blas64

import "gonum.org/v1/gonum/blas"

// SymmetricCols represents a matrix using the conventional column-major storage scheme.
type SymmetricCols Symmetric

// From fills the receiver with elements from a. The receiver
```

```
// must have the same dimensions and uplo as a and have adequate
// backing data storage.
func (t SymmetricCols) From(a Symmetric) {
 if t.N != a.N {
  panic("blas64: mismatched dimension")
 }
 if t.Uplo != a.Uplo {
  panic("blas64: mismatched BLAS uplo")
 }
 switch a.Uplo {
 default:
  panic("blas64: bad BLAS uplo")
 case blas.Upper:
  for i := 0; i < a.N; i++ {
   for j := i; j < a.N; j++ {
    t.Data[i+j*t.Stride] = a.Data[i*a.Stride+j]
   }
  }
 case blas.Lower:
  for i := 0; i < a.N; i++ {
   for j := 0; j <= i; j++ {
    t.Data[i+j*t.Stride] = a.Data[i*a.Stride+j]
   }
  }
 }
}

// From fills the
 receiver with elements from a. The receiver
// must have the same dimensions and uplo as a and have adequate
// backing data storage.
func (t Symmetric) From(a SymmetricCols) {
 if t.N != a.N {
  panic("blas64: mismatched dimension")
 }
 if t.Uplo != a.Uplo {
  panic("blas64: mismatched BLAS uplo")
 }
 switch a.Uplo {
 default:
  panic("blas64: bad BLAS uplo")
 case blas.Upper:
  for i := 0; i < a.N; i++ {
   for j := i; j < a.N; j++ {
    t.Data[i*t.Stride+j] = a.Data[i+j*a.Stride]
   }
  }
 case blas.Lower:
```

```
  for i := 0; i < a.N; i++ {
   for j := 0; j <= i; j++ {
    t.Data[i*t.Stride+j] = a.Data[i+j*a.Stride]
   }
  }
 }
}

// SymmetricBandCols represents a symmetric matrix using the band column-major storage scheme.
type SymmetricBandCols SymmetricBand

// From fills the receiver with elements from a. The receiver
// must have the same dimensions, bandwidth and uplo as a and
// have adequate backing data storage.
func (t SymmetricBandCols) From(a SymmetricBand) {
 if t.N != a.N
 {
  panic("blas64: mismatched dimension")
 }
 if t.K != a.K {
  panic("blas64: mismatched bandwidth")
 }
 if a.Stride < a.K+1 {
  panic("blas64: short stride for source")
 }
 if t.Stride < t.K+1 {
  panic("blas64: short stride for destination")
 }
 if t.Uplo != a.Uplo {
  panic("blas64: mismatched BLAS uplo")
 }
 dst := BandCols{
  Rows: t.N, Cols: t.N,
  Stride: t.Stride,
  Data:   t.Data,
 }
 src := Band{
  Rows: a.N, Cols: a.N,
  Stride: a.Stride,
  Data:   a.Data,
 }
 switch a.Uplo {
 default:
  panic("blas64: bad BLAS uplo")
 case blas.Upper:
  dst.KU = t.K
  src.KU = a.K
 case blas.Lower:
```

```
 dst.KL = t.K
 src.KL = a.K
 }
 dst.From(src)
}

// From fills the receiver with elements from a. The receiver
// must have the same dimensions, bandwidth and uplo as a and
// have adequate backing data storage.
func (t SymmetricBand) From(a SymmetricBandCols) {
 if t.N != a.N {
  panic("blas64: mismatched dimension")
 }
 if t.K != a.K {
  panic("blas64: mismatched bandwidth")
 }
 if a.Stride
 < a.K+1 {
  panic("blas64: short stride for source")
 }
 if t.Stride < t.K+1 {
  panic("blas64: short stride for destination")
 }
 if t.Uplo != a.Uplo {
  panic("blas64: mismatched BLAS uplo")
 }
 dst := Band{
  Rows: t.N, Cols: t.N,
  Stride: t.Stride,
  Data:   t.Data,
 }
 src := BandCols{
  Rows: a.N, Cols: a.N,
  Stride: a.Stride,
  Data:   a.Data,
 }
 switch a.Uplo {
 default:
  panic("blas64: bad BLAS uplo")
 case blas.Upper:
  dst.KU = t.K
  src.KU = a.K
 case blas.Lower:
  dst.KL = t.K
  src.KL = a.K
 }
 dst.From(src)
}
```

```
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package mat

import (
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/floats"
)

func TestGSVD(t *testing.T) {
 const tol = 1e-10
 rnd := rand.New(rand.NewSource(1))
 for _, test := range []struct {
  m, p, n int
 }{
  {5, 3, 5},
  {5, 3, 3},
  {3, 3, 5},
  {5, 5, 5},
  {5, 5, 3},
  {3, 5, 5},
  {150, 150, 150},
  {200, 150, 150},
  {150, 150, 200},
  {150, 200, 150},
  {200, 200, 150},
  {150, 200, 200},
 } {
  m := test.m
  p := test.p
  n := test.n
  for trial := 0; trial < 10; trial++ {
   a := NewDense(m, n, nil)
   for i := range a.mat.Data {
    a.mat.Data[i] = rnd.NormFloat64()
   }
   aCopy := DenseCopyOf(a)

   b := NewDense(p, n, nil)
   for i := range b.mat.Data {
    b.mat.Data[i] = rnd.NormFloat64()
   }
   bCopy := DenseCopyOf(b)
```

```
 // Test Full decomposition.
 var gsvd GSVD
 ok := gsvd.Factorize(a,
b, GSVDU|GSVDV|GSVDQ)
 if !ok {
  t.Errorf("GSVD factorization failed")
 }
 if !Equal(a, aCopy) {
  t.Errorf("A changed during call to GSVD.Factorize with GSVDU|GSVDV|GSVDQ")
 }
 if !Equal(b, bCopy) {
  t.Errorf("B changed during call to GSVD.Factorize with GSVDU|GSVDV|GSVDQ")
 }
 c, s, sigma1, sigma2, zeroR, u, v, q := extractGSVD(&gsvd)
 var ansU, ansV, d1R, d2R Dense
 ansU.Product(u.T(), a, q)
 ansV.Product(v.T(), b, q)
 d1R.Mul(sigma1, zeroR)
 d2R.Mul(sigma2, zeroR)
 if !EqualApprox(&ansU, &d1R, tol) {
  t.Errorf("Answer mismatch with GSVDU|GSVDV|GSVDQ\nU * A * Q:\n% 0.2f\n * [ 0 R ]:\n% 0.2f",
   Formatted(&ansU), Formatted(&d1R))
 }
 if !EqualApprox(&ansV, &d2R, tol) {
  t.Errorf("Answer mismatch with GSVDU|GSVDV|GSVDQ\nV * B  *Q:\n% 0.2f\n * [ 0 R ]:\n% 0.2f",
   Formatted(&d2R), Formatted(&ansV))
 }

 // Check C^2 + S^2 = I.
 for i := range c {
  d := c[i]*c[i] + s[i]*s[i]
  if !floats.EqualWithinAbsOrRel(d, 1, 1e-14, 1e-14)
{
   t.Errorf("c_%d^2 + s_%d^2 != 1: got: %v", i, i, d)
  }
 }

 // Test None decomposition.
 ok = gsvd.Factorize(a, b, GSVDNone)
 if !ok {
  t.Errorf("GSVD factorization failed")
 }
 if !Equal(a, aCopy) {
  t.Errorf("A changed during call to GSVD with GSVDNone")
 }
 if !Equal(b, bCopy) {
  t.Errorf("B changed during call to GSVD with GSVDNone")
```

```
   }
   cNone := gsvd.ValuesA(nil)
   if !floats.EqualApprox(c, cNone, tol) {
    t.Errorf("Singular value mismatch between GSVDU|GSVDV|GSVDQ and GSVDNone decomposition")
   }
   sNone := gsvd.ValuesB(nil)
   if !floats.EqualApprox(s, sNone, tol) {
    t.Errorf("Singular value mismatch between GSVDU|GSVDV|GSVDQ and GSVDNone decomposition")
   }
  }
 }
}

func extractGSVD(gsvd *GSVD) (c, s []float64, s1, s2, zR, u, v, q *Dense) {
 s1 = &Dense{}
 s2 = &Dense{}
 zR = &Dense{}
 u = &Dense{}
 v = &Dense{}
 q = &Dense{}
 gsvd.SigmaATo(s1)
 gsvd.SigmaBTo(s2)
 gsvd.ZeroRTo(zR)
 gsvd.UTo(u)
 gsvd.VTo(v)
 gsvd.QTo(q)
 c = gsvd.ValuesA(nil)
 s
 = gsvd.ValuesB(nil)
 return c, s, s1, s2, zR, u, v, q
}
graph{{Edg_}Edg_{Edg_{Edg_}}}
graph{""[diA=""diA=""diA=""diA=""]}
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package quat

import "math"

// Abs returns the absolute value (also called the modulus) of q.
func Abs(q Number) float64 {
 // Special cases.
```

```
 switch {
 case IsInf(q):
  return math.Inf(1)
 case IsNaN(q):
  return math.NaN()
 }

 r, i, j, k := q.Real, q.Imag, q.Jmag, q.Kmag
 if r < 0 {
  r = -r
 }
 if i < 0 {
  i = -i
 }
 if j < 0 {
  j = -j
 }
 if k < 0 {
  k = -k
 }
 if r < i {
  r, i = i, r
 }
 if r < j {
  r, j = j, r
 }
 if r < k {
  r, k = k, r
 }
 if r == 0 {
  return 0
 }
 i /= r
 j /= r
 k /= r
 return r * math.Sqrt(1+i*i+j*j+k*k)
}
graph{STR{STR}}
Graph{{{{{{dig}}}}dig{{{dig}}}dig{{{dig}}}}dig{{{dig}}dig{{dig}}}}
digraph{B:w->D:w->D:w->D:w H:w->D:w H:w->D:w H:w}
graph{{stric}{stric{stric}}}
graph{{SUBGRAPH8}{SUBGRAPH{}}}
graph{{digrP{digrA}digrP{digrA}}}
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package dynamic
```

```
import (
 "bytes"
 "fmt"
 "io"
 "sort"
 "text/tabwriter"

 "gonum.org/v1/gonum/graph/path/internal/testgraphs"
 "gonum.org/v1/gonum/graph/simple"
)

// dumper implements a grid D* Lite statistics dump.
type dumper struct {
 step int

 dStarLite *DStarLite
 grid      *testgraphs.LimitedVisionGrid

 w io.Writer
}

// dump writes a single step of a D* Lite path search to the dumper's io.Writer.
func (d *dumper) dump(withpath bool) {
 if d == nil {
  return
 }
 var pathStep map[int64]int
 if withpath {
  pathStep = make(map[int64]int)
  path, _ := d.dStarLite.Path()
  for i, n := range path {
   pathStep[n.ID()] = i
  }
 }
 fmt.Fprintf(d.w, "Step:%d k=%v\n", d.step, d.dStarLite.keyModifier)
 d.step++
 w := tabwriter.NewWriter(d.w, 0, 0, 0, ' ', tabwriter.Debug)
 rows, cols := d.grid.Grid.Dims()
 for r := 0; r < rows;
 r++ {
  if r == 0 {
   for c := 0; c < cols; c++ {
    if c != 0 {
     fmt.Fprint(w, "\t")
    }
    fmt.Fprint(w, "-------------------")
   }
```

```
 fmt.Fprintln(w)
}
for ln := 0; ln < 6; ln++ {
 for c := 0; c < cols; c++ {
  if c != 0 {
   fmt.Fprint(w, "\t")
  }
  n := d.dStarLite.model.Node(d.grid.NodeAt(r, c).ID()).(*dStarLiteNode)
  switch ln {
  case 0:
   if n.ID() == d.grid.Location.ID() {
    if d.grid.Grid.HasOpen(n.ID()) {
     fmt.Fprintf(w, "id:%2d  >@<", n.ID())
    } else {
     // Mark location as illegal.
     fmt.Fprintf(w, "id:%2d  >!<", n.ID())
    }
   } else if n.ID() == d.dStarLite.t.ID() {
    fmt.Fprintf(w, "id:%2d   G", n.ID())
    // Mark goal cell as illegal.
    if !d.grid.Grid.HasOpen(n.ID()) {
     fmt.Fprint(w, "!")
    }
   } else if pathStep[n.ID()] > 0 {
    fmt.Fprintf(w, "id:%2d  %2d", n.ID(), pathStep[n.ID()])
    // Mark path cells with an obstruction.
    if !d.grid.Grid.HasOpen(n.ID()) {
     fmt.Fprint(w,
"!")
    }
   } else {
    fmt.Fprintf(w, "id:%2d", n.ID())
    // Mark cells with an obstruction.
    if !d.grid.Grid.HasOpen(n.ID()) {
     fmt.Fprint(w, "   *")
    }
   }
  case 1:
   fmt.Fprintf(w, "h:  %.4v", d.dStarLite.heuristic(n, d.dStarLite.Here()))
  case 2:
   fmt.Fprintf(w, "g:  %.4v", n.g)
  case 3:
   fmt.Fprintf(w, "rhs:%.4v", n.rhs)
  case 4:
   if n.g != n.rhs {
    fmt.Fprintf(w, "key:%.3f", n.key)
   }
   if !n.key.isBadKey() {
```

```
      // Mark keys for nodes in the priority queue.
      // We use NaN inequality for this check since all
      // keys not in the queue must have their key set
      // to badKey.
      //
      // This should always mark cells where key is
      // printed.
      fmt.Fprint(w, "*")
     }
     if n.g > n.rhs {
      fmt.Fprint(w, "^")
     }
     if n.g < n.rhs {
      fmt.Fprint(w, "v")
     }
    default:
     fmt.Fprint(w, "--------------------")
    }
   }
   fmt.Fprintln(w)
  }
 }
 w.Flush()
 fmt.Fprintln(d.w)
}

//
 printEdges pretty prints the given edges to the dumper's io.Writer using the provided
// format string. The edges are first formated to a string, so the format string must use
// the %s verb to indicate where the edges are to be printed.
func (d *dumper) printEdges(format string, edges []simple.WeightedEdge) {
 if d == nil {
  return
 }
 var buf bytes.Buffer
 sort.Sort(lexically(edges))
 for i, e := range edges {
  if i != 0 {
   fmt.Fprint(&buf, ", ")
  }
  fmt.Fprintf(&buf, "%d->%d:%.4v", e.From().ID(), e.To().ID(), e.Weight())
 }
 if len(edges) == 0 {
  fmt.Fprint(&buf, "none")
 }
 fmt.Fprintf(d.w, format, buf.Bytes())
}
```

```
type lexically []simple.WeightedEdge

func (l lexically) Len() int { return len(l) }
func (l lexically) Less(i, j int) bool {
 return l[i].From().ID() < l[j].From().ID() || (l[i].From().ID() == l[j].From().ID() && l[i].To().ID() < l[j].To().ID())
}
func (l lexically) Swap(i, j int) { l[i], l[j] = l[j], l[i] }
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package gen

import (
 "fmt"
 "math"
 "sort"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/graph"
 "gonum.org/v1/gonum/graph/internal/ordered"
)

// UndirectedMutator is an undirected graph builder that can remove edges.
type UndirectedMutator interface {
 graph.UndirectedBuilder
 graph.EdgeRemover
}

// Duplication constructs a graph in the destination, dst, of order n. New nodes
// are created by duplicating an existing node and all its edges. Each new edge is
// deleted with probability delta. Additional edges are added between the new node
// and existing nodes with probability alpha/|V|. An exception to this addition
// rule is made for the parent node when sigma is not NaN; in this case an edge is
// created with probability sigma. With the exception of the sigma parameter, this
// corresponds to the completely correlated
 case in doi:10.1016/S0022-5193(03)00028-6.
// If src is not nil it is used as the random source, otherwise rand.Float64 is used.
func Duplication(dst UndirectedMutator, n int, delta, alpha, sigma float64, src rand.Source) error {
 // As described in doi:10.1016/S0022-5193(03)00028-6 but
 // also clarified in doi:10.1186/gb-2007-8-4-r51.

 if delta < 0 || delta > 1 {
  return fmt.Errorf("gen: bad delta: delta=%v", delta)
 }
 if alpha <= 0 || alpha > 1 {
  return fmt.Errorf("gen: bad alpha: alpha=%v", alpha)
```

```
}
if sigma < 0 || sigma > 1 {
 return fmt.Errorf("gen: bad sigma: sigma=%v", sigma)
}

var (
 rnd  func() float64
 rndN func(int) int
)
if src == nil {
 rnd = rand.Float64
 rndN = rand.Intn
} else {
 r := rand.New(src)
 rnd = r.Float64
 rndN = r.Intn
}

nodes := graph.NodesOf(dst.Nodes())
sort.Sort(ordered.ByID(nodes))
if len(nodes) == 0 {
 n--
 u := dst.NewNode()
 dst.AddNode(u)
 nodes = append(nodes, u)
}
for i := 0; i < n; i++ {
 u := nodes[rndN(len(nodes))]
 d
:= dst.NewNode()
 did := d.ID()

 // Add the duplicate node.
 dst.AddNode(d)

 // Loop until we have connectivity
 // into the rest of the graph.
 for {
  // Add edges to parent's neighbours.
  to := graph.NodesOf(dst.From(u.ID()))
  sort.Sort(ordered.ByID(to))
  for _, v := range to {
   vid := v.ID()
   if rnd() < delta || dst.HasEdgeBetween(vid, did) {
    continue
   }
   if vid < did {
    dst.SetEdge(dst.NewEdge(v, d))
```

```
    } else {
     dst.SetEdge(dst.NewEdge(d, v))
    }
   }

   // Add edges to old nodes.
   scaledAlpha := alpha / float64(len(nodes))
   for _, v := range nodes {
    uid := u.ID()
    vid := v.ID()
    switch vid {
    case uid:
     if !math.IsNaN(sigma) {
      if i == 0 || rnd() < sigma {
       if vid < did {
        dst.SetEdge(dst.NewEdge(v, d))
       } else {
        dst.SetEdge(dst.NewEdge(d, v))
       }
      }
      continue
     }
     fallthrough
    default:
     if rnd() < scaledAlpha && !dst.HasEdgeBetween(vid, did)
   {
      if vid < did {
       dst.SetEdge(dst.NewEdge(v, d))
      } else {
       dst.SetEdge(dst.NewEdge(d, v))
      }
     }
    }
   }

   if dst.From(did).Len() != 0 {
    break
   }
  }

  nodes = append(nodes, d)
 }

 return nil
}
graph{{digrap{digrap}}}
graph{{G7{G7}G9}G7{G7{G7{G7}G9}G7{G7}G}G9}
```

graph{8.1855820766091346207660913467402226562579101562740772656257910156 25}
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// Package quad provides numerical evaluation of definite integrals of single-variable functions.
//
package quad // import "gonum.org/v1/gonum/integrate/quad"
graph{{SUBGG{SUBGH}}}
graph{SUB{{{SUB{{SUB}SUB}}SUB}SUB}}
graph{{StricW}StricP}
graph{{{{st}}st}}
Graph{{subgra4}}
graph{GR{GR{{GR{GR{{GR}GR}}{{GR}GR}}}}}
graph{ED{ED{ED}}}
graph{di_{di_{di_}di_}{di_{di_{di_}di_}{di_{di_}}{di_}}}
graph{{no9}{no6}}
digraph {
 graph [bgcolor=transparent]
 node [style=filled fillcolor=white]
 edge [minlen=2]
 A -> B
}
graph{{no9{{no9}{no6}}no6{{no9{{no9}{no6}}no6}}}}
//** github.com/SPIEGELTechLab/skipper@v0.10.69 **//

{{Types "Apache-2.0 MIT"}}

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of the pathmux subdirectory which is licensed under MIT license (see notice file below).

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Notice file for pathmux/

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MODIFICATIONS TO pathmux/tree.go and pathmux/tree_test.go:

02.09.2015
 - Exposed the internal tree implementation of http://godoc.org/github.com/dimfeld/httptreemux so that
it can be used to look up arbitrary objects in a Patricia tree.

21.04.2016 - Enabled backtracking in the tree lookup.
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package layout

import (
 "image"

 "gioui.org/op"
)

// Stack lays out child elements on top of each other,
// according to an alignment direction.
type Stack struct {
 // Alignment is the direction to align children
 // smaller than the available space.
 Alignment Direction
}

// StackChild represents a child for a Stack layout.
type StackChild struct {

```
 expanded bool
 widget   Widget

 // Scratch space.
 macro op.MacroOp
 dims  Dimensions
}

// Stacked returns a Stack child that laid out with the same maximum
// constraints as the Stack.
func Stacked(w Widget) StackChild {
 return StackChild{
  widget: w,
 }
}

// Expanded returns a Stack child that is forced to take up at least
// the the space as the largest Stacked.
func Expanded(w Widget) StackChild {
 return StackChild{
  expanded: true,
  widget:   w,
 }
}

// Layout a stack of children. The position of the children are
// determined by the specified order, but Stacked children are
 laid out
// before Expanded children.
func (s Stack) Layout(gtx *Context, children ...StackChild) {
 var maxSZ image.Point
 // First lay out Stacked children.
 for i, w := range children {
  if w.expanded {
   continue
  }
  cs := gtx.Constraints
  cs.Width.Min = 0
  cs.Height.Min = 0
  var m op.MacroOp
  m.Record(gtx.Ops)
  dims := ctxLayout(gtx, cs, w.widget)
  m.Stop()
  if w := dims.Size.X; w > maxSZ.X {
   maxSZ.X = w
  }
  if h := dims.Size.Y; h > maxSZ.Y {
   maxSZ.Y = h
```

```
 }
 children[i].macro = m
 children[i].dims = dims
}
maxSZ = gtx.Constraints.Constrain(maxSZ)
// Then lay out Expanded children.
for i, w := range children {
 if !w.expanded {
  continue
 }
 var m op.MacroOp
 m.Record(gtx.Ops)
 cs := Constraints{
  Width:  Constraint{Min: maxSZ.X, Max: gtx.Constraints.Width.Max},
  Height: Constraint{Min: maxSZ.Y, Max: gtx.Constraints.Height.Max},
 }
 dims := ctxLayout(gtx, cs, w.widget)
 m.Stop()
 children[i].macro = m
 children[i].dims = dims
}

var baseline
int
for _, ch := range children {
 sz := ch.dims.Size
 var p image.Point
 switch s.Alignment {
 case N, S, Center:
  p.X = (maxSZ.X - sz.X) / 2
 case NE, SE, E:
  p.X = maxSZ.X - sz.X
 }
 switch s.Alignment {
 case W, Center, E:
  p.Y = (maxSZ.Y - sz.Y) / 2
 case SW, S, SE:
  p.Y = maxSZ.Y - sz.Y
 }
 var stack op.StackOp
 stack.Push(gtx.Ops)
 op.TransformOp{}.Offset(toPointF(p)).Add(gtx.Ops)
 ch.macro.Add()
 stack.Pop()
 if baseline == 0 {
  if b := ch.dims.Baseline; b != 0 {
   baseline = b + maxSZ.Y - sz.Y - p.Y
  }
```

```
  }
 }
 gtx.Dimensions = Dimensions{
  Size:     maxSZ,
  Baseline: baseline,
 }
}
graph{{{die}die}}
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// +build gofuzz

package fuzz

import (
 "bytes"
 "os/exec"

 "gonum.org/v1/gonum/graph/formats/dot"
)

// Fuzz implements the fuzzing function required for go-fuzz.
//
// See documentation at https://github.com/dvyukov/go-fuzz.
func Fuzz(data []byte) int {
 // We don't accept empty data; the dot command does.
 if len(data) == 0 || bytes.Equal(data, []byte{0}) {
  return -1
 }

 // Check that dot accepts the input without complaint.
 cmd := exec.Command("dot")
 cmd.Stdin = bytes.NewReader(data)
 err := cmd.Run()
 if err != nil {
  return 0
 }

 // Try to parse the data.
 _, err = dot.Parse(bytes.NewReader(data))
 if err != nil {
  panic("could not parse good dot")
 }
 return 1
}
```

```
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// Package cblas64 provides a simple interface to the complex64 BLAS API.
package cblas64 // import "gonum.org/v1/gonum/blas/cblas64"
graph{{{{{{{{{{{Digra_{Digra_}}Digra_{Digra_{Digra_{Digra_}}Digr}}Digra_}}Digra_{Digra_{Digra_}{Di
gra_}}Digra_{Digra_{Digra_{Digra_}}Digr}}Digra_}}Digra_{Digra_{Digra_}}}}}}}
graph{stric9{stric4}stric9{stric4}}
/**/graph{/**/}
graph{{sur{{sur{sur{{sur}sur{sur}sur}}sur}sur}}}
graph{DIG_{DIG_}}
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package gonum

import "gonum.org/v1/gonum/blas"

// Dorml2 multiplies a general matrix C by an orthogonal matrix from an LQ factorization
// determined by Dgelqf.
//  C = Q * C   if side == blas.Left and trans == blas.NoTrans
//  C = Q * C  if side == blas.Left and trans == blas.Trans
//  C = C * Q   if side == blas.Right and trans == blas.NoTrans
//  C = C * Q  if side == blas.Right and trans == blas.Trans
// If side == blas.Left, a is a matrix of side km, and if side == blas.Right
// a is of size kn.
//
// tau contains the Householder factors and is of length at least k and this function will
// panic otherwise.
//
// work is temporary storage of length at least n if side == blas.Left
// and at least m if side == blas.Right and this function will panic otherwise.
//
// Dorml2 is an internal routine. It is exported for testing
 purposes.
func (impl Implementation) Dorml2(side blas.Side, trans blas.Transpose, m, n, k int, a []float64, lda int, tau, c
[]float64, ldc int, work []float64) {
 left := side == blas.Left
 switch {
 case !left && side != blas.Right:
  panic(badSide)
 case trans != blas.Trans && trans != blas.NoTrans:
  panic(badTrans)
 case m < 0:
  panic(mLT0)
 case n < 0:
```

```
 panic(nLT0)
case k < 0:
 panic(kLT0)
case left && k > m:
 panic(kGTM)
case !left && k > n:
 panic(kGTN)
case left && lda < max(1, m):
 panic(badLdA)
case !left && lda < max(1, n):
 panic(badLdA)
}

// Quick return if possible.
if m == 0 || n == 0 || k == 0 {
 return
}

switch {
case left && len(a) < (k-1)*lda+m:
 panic(shortA)
case !left && len(a) < (k-1)*lda+n:
 panic(shortA)
case len(tau) < k:
 panic(shortTau)
case len(c) < (m-1)*ldc+n:
 panic(shortC)
case left && len(work) < n:
 panic(shortWork)
case !left && len(work) < m:
 panic(shortWork)
}

notrans := trans == blas.NoTrans
switch {
case left
&& notrans:
 for i := 0; i < k; i++ {
  aii := a[i*lda+i]
  a[i*lda+i] = 1
  impl.Dlarf(side, m-i, n, a[i*lda+i:], 1, tau[i], c[i*ldc:], ldc, work)
  a[i*lda+i] = aii
 }

case left && !notrans:
 for i := k - 1; i >= 0; i-- {
  aii := a[i*lda+i]
  a[i*lda+i] = 1
```

```
  impl.Dlarf(side, m-i, n, a[i*lda+i:], 1, tau[i], c[i*ldc:], ldc, work)
  a[i*lda+i] = aii
 }

 case !left && notrans:
  for i := k - 1; i >= 0; i-- {
  aii := a[i*lda+i]
  a[i*lda+i] = 1
  impl.Dlarf(side, m, n-i, a[i*lda+i:], 1, tau[i], c[i:], ldc, work)
  a[i*lda+i] = aii
 }

 case !left && !notrans:
  for i := 0; i < k; i++ {
  aii := a[i*lda+i]
  a[i*lda+i] = 1
  impl.Dlarf(side, m, n-i, a[i*lda+i:], 1, tau[i], c[i:], ldc, work)
  a[i*lda+i] = aii
 }
}
/**/graph""{e[e=""l=""e=""h=""t=""r=""][r=""]/* "327890" -- "3298-547" -- "3" -- "-0";
 /* .rege ar =aw 89723h  */
 "-0" -- "5" [e = 3.0];
 "4" -- "9" [e = 3.0];
 "6" -- "327890" [e = 3.0];
 "8" -- "3" [e = 3.0];
 "3298-547" -- "3" [e = 3.0];
}
graph{diG8{}diG5{}diG5{}diG5}
graph{<NNNNNNNNN>}
graph{{ed_}}
graph{{{{{STN}STN}STH}STN}STN}STH}
Graph{{{diGrapc}diGrapc}}
//** https://raw.githubusercontent.com/Workiva/ssllabs-go/v0.1.4/LICENSE **//

{{Types "Apache-2.0"}}

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```

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```
graph{{{gra_{}gra_{}gra_}gra_}gra_}
graph{{GRA}{GRA}GRAa{{GRA}{GRA}GRA}}
graph{{nN{nN}}}
# Gonum stat
[![GoDoc](https://godoc.org/gonum.org/v1/gonum/stat?status.svg)](https://godoc.org/gonum.org/v1/gonum/stat)

Package stat is a statistics package for the Go language.
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package gonum

import (
 "math"

 "gonum.org/v1/gonum/blas/blas64"
)

// Drscl multiplies the vector x by 1/a being careful to avoid overflow or
// underflow where possible.
//
// Drscl is an internal routine. It is exported for testing purposes.
func (impl Implementation) Drscl(n int, a float64, x []float64, incX int) {
 switch {
 case n < 0:
  panic(nLT0)
 case incX <= 0:
  panic(badIncX)
 }

 // Quick return if possible.
 if n == 0 {
  return
 }

 if len(x) < 1+(n-1)*incX {
  panic(shortX)
```

```
 }

 bi := blas64.Implementation()

 cden := a
 cnum := 1.0
 smlnum := dlamchS
 bignum := 1 / smlnum
 for {
  cden1 := cden * smlnum
  cnum1 := cnum / bignum
  var mul float64
  var done bool
  switch {
  case cnum != 0 && math.Abs(cden1) > math.Abs(cnum):
   mul = smlnum
   done = false
   cden = cden1
  case math.Abs(cnum1) > math.Abs(cden):
   mul
 = bignum
   done = false
   cnum = cnum1
  default:
   mul = cnum / cden
   done = true
  }
  bi.Dscal(n, mul, x, incX)
  if done {
   break
  }
 }
}
graph{{{{grN}{grN}{grN}}grO}}
graph{DIGRAP}
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package optimize

import (
 "testing"

 "gonum.org/v1/gonum/mat"
 "gonum.org/v1/gonum/optimize/functions"
 "gonum.org/v1/gonum/stat/distmv"
)
```

```
func TestGuessAndCheck(t *testing.T) {
 dim := 30
 problem := Problem{
  Func: functions.ExtendedRosenbrock{}.Func,
 }
 mu := make([]float64, dim)
 sigma := mat.NewSymDense(dim, nil)
 for i := 0; i < dim; i++ {
  sigma.SetSym(i, i, 1)
 }
 d, ok := distmv.NewNormal(mu, sigma, nil)
 if !ok {
  panic("bad test")
 }
 initX := make([]float64, dim)
 Minimize(problem, initX, nil, &GuessAndCheck{Rander: d})

 settings := &Settings{}
 settings.Concurrent = 5
 settings.MajorIterations = 15
 Minimize(problem, initX, settings, &GuessAndCheck{Rander: d})
}
graph{Di{{{{Di}Di}}Di}}
graph{{Gr}{Gr{{Gr}{Gr{{Gr{{Gr}{Gr}}Gr}{Gr}}{{Gr}{Gr{{Gr}{Gr}}Gr}}}}}
graph{{{stricu}stricu}{stricu}{stricu}}
graph{{{{EDGD{{EDGD}}EDGD}EDGD{EDGD}}EDGD}}
graph{{D_{{D_}}}}
graph{{DY{DN}DY}DY{DN}{DY{DN}DY}DY{DN}{DY{DN}DY{DN}DY}DY{DN}DY}
graph{ed""ed{ed""ed}}
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package gonum

import (
 "math"

 "gonum.org/v1/gonum/blas/blas64"
)

// Dgetf2 computes the LU decomposition of the mn matrix A.
// The LU decomposition is a factorization of a into
//  A = P * L * U
// where P is a permutation matrix, L is a unit lower triangular matrix, and
// U is a (usually) non-unit upper triangular matrix. On exit, L and U are stored
// in place into a.
```

```
//
// ipiv is a permutation vector. It indicates that row i of the matrix was
// changed with ipiv[i]. ipiv must have length at least min(m,n), and will panic
// otherwise. ipiv is zero-indexed.
//
// Dgetf2 returns whether the matrix A is singular. The LU decomposition will
// be computed regardless of the singularity of A, but division by zero
// will occur if the false is returned and the result is used to solve a
// system of equations.
//
// Dgetf2
 is an internal routine. It is exported for testing purposes.
func (Implementation) Dgetf2(m, n int, a []float64, lda int, ipiv []int) (ok bool) {
 mn := min(m, n)
 switch {
 case m < 0:
  panic(mLT0)
 case n < 0:
  panic(nLT0)
 case lda < max(1, n):
  panic(badLdA)
 }

 // Quick return if possible.
 if mn == 0 {
  return true
 }

 switch {
 case len(a) < (m-1)*lda+n:
  panic(shortA)
 case len(ipiv) != mn:
  panic(badLenIpiv)
 }

 bi := blas64.Implementation()

 sfmin := dlamchS
 ok = true
 for j := 0; j < mn; j++ {
  // Find a pivot and test for singularity.
  jp := j + bi.Idamax(m-j, a[j*lda+j:], lda)
  ipiv[j] = jp
  if a[jp*lda+j] == 0 {
   ok = false
  } else {
   // Swap the rows if necessary.
   if jp != j {
```

```
    bi.Dswap(n, a[j*lda:], 1, a[jp*lda:], 1)
   }
   if j < m-1 {
    aj := a[j*lda+j]
    if math.Abs(aj) >= sfmin {
     bi.Dscal(m-j-1, 1/aj, a[(j+1)*lda+j:], lda)
    } else {
     for i := 0; i < m-j-1; i++ {
      a[(j+1)*lda+j] = a[(j+1)*lda+j] / a[lda*j+j]
     }
    }
   }
  }
  if
 j < mn-1 {
   bi.Dger(m-j-1, n-j-1, -1, a[(j+1)*lda+j:], lda, a[j*lda+j+1:], 1, a[(j+1)*lda+j+1:], lda)
  }
 }
 return ok
}
graph{No0}
graph{su_{su_}{su_}}
graph{diGra{diGra}}
graph{{{{StriG}{StriG}{StriG}{StriG}{StriG}}}StriC}
Graph{SubgrK{{{SubgrN}}}}
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package path

import (
 "testing"
)

func TestDisjointSetMakeSet(t *testing.T) {
 ds := newDisjointSet()
 if ds.master == nil {
  t.Fatal("Internal disjoint set map erroneously nil")
 } else if len(ds.master) != 0 {
  t.Error("Disjoint set master map of wrong size")
 }

 ds.makeSet(3)
 if len(ds.master) != 1 {
  t.Error("Disjoint set master map of wrong size")
 }
```

```
 if node, ok := ds.master[3]; !ok {
  t.Error("Make set did not successfully add element")
 } else {
  if node == nil {
   t.Fatal("Disjoint set node from makeSet is nil")
  }

  if node.rank != 0 {
   t.Error("Node rank set incorrectly")
  }

  if node.parent != node {
   t.Error("Node parent set incorrectly")
  }
 }
}

func TestDisjointSetFind(t *testing.T) {
 ds := newDisjointSet()

 ds.makeSet(3)
 ds.makeSet(5)

 if ds.find(3) == ds.find(5) {
  t.Error("Disjoint
 sets incorrectly found to be the same")
 }
}

func TestUnion(t *testing.T) {
 ds := newDisjointSet()

 ds.makeSet(3)
 ds.makeSet(5)

 ds.union(ds.find(3), ds.find(5))

 if ds.find(3) != ds.find(5) {
  t.Error("Sets found to be disjoint after union")
 }
}
// SPDX-License-Identifier: Unlicense OR MIT

// +build !go1.14

// Work around golang.org/issue/33384, fixed in CL 191785,
// to be released in Go 1.14.
```

```
package app

import (
 "os"
 "os/signal"
 "syscall"
)

func init() {
 signal.Notify(make(chan os.Signal), syscall.SIGPIPE)
}
graph{SubG}
graph{{{{Gr4{Gr4{Gr4{{{Gr4}}}Gr8}}}}Gr8}}
Graph{{subgra_}{subgra_}{subgra_{}{{subgra_}}""subgra_}{subgra_}{{{subgra_}{{}}{}}subgra_}{{{}}subgra
_}{subgra_{}}}
graph{{S}S}
graph{{{gra_{}gra_{gra_}gra_}gra_}gra_}
*> \brief \b DLAQR5 performs a single small-bulge multi-shift QR sweep.
*
*  =========== DOCUMENTATION ===========
*
* Online html documentation available at
*            http://www.netlib.org/lapack/explore-html/
*
*> \htmlonly
*> Download DLAQR5 + dependencies
*> <a href="http://www.netlib.org/cgi-bin/netlibfiles.tgz?format=tgz&filename=/lapack/lapack_routine/dlaqr5.f">
*> [TGZ]</a>
*> <a href="http://www.netlib.org/cgi-bin/netlibfiles.zip?format=zip&filename=/lapack/lapack_routine/dlaqr5.f">
*> [ZIP]</a>
*> <a href="http://www.netlib.org/cgi-bin/netlibfiles.txt?format=txt&filename=/lapack/lapack_routine/dlaqr5.f">
*> [TXT]</a>
*> \endhtmlonly
*
*  Definition:
*  ===========
*
*       SUBROUTINE DLAQR5( WANTT, WANTZ, KACC22, N, KTOP, KBOT, NSHFTS,
*                          SR, SI, H, LDH, ILOZ, IHIZ, Z, LDZ, V, LDV, U,
*                          LDU, NV, WV, LDWV, NH, WH, LDWH )
*
*       .. Scalar Arguments ..
*       INTEGER            IHIZ, ILOZ, KACC22, KBOT, KTOP, LDH,
 LDU, LDV,
*      $                   LDWH, LDWV, LDZ, N, NH, NSHFTS, NV
*       LOGICAL            WANTT, WANTZ
*       ..
*       .. Array Arguments ..
```

```
*      DOUBLE PRECISION   H( LDH, * ), SI( * ), SR( * ), U( LDU, * ),
*     $                   V( LDV, * ), WH( LDWH, * ), WV( LDWV, * ),
*     $                   Z( LDZ, * )
*      ..
*
*
*> \par Purpose:
*  =============
*>
*> \verbatim
*>
*>    DLAQR5, called by DLAQR0, performs a
*>    single small-bulge multi-shift QR sweep.
*> \endverbatim
*
*  Arguments:
*  ==========
*
*> \param[in] WANTT
*> \verbatim
*>          WANTT is logical scalar
*>             WANTT = .true. if the quasi-triangular Schur factor
*>             is being computed.  WANTT is set to .false. otherwise.
*> \endverbatim
*>
*> \param[in] WANTZ
*> \verbatim
*>          WANTZ is logical scalar
*>             WANTZ = .true. if the orthogonal Schur factor is being
*>             computed.  WANTZ is set to .false. otherwise.
*> \endverbatim
*>
*> \param[in]
 KACC22
*> \verbatim
*>          KACC22 is integer with value 0, 1, or 2.
*>             Specifies the computation mode of far-from-diagonal
*>             orthogonal updates.
*>        = 0: DLAQR5 does not accumulate reflections and does not
*>             use matrix-matrix multiply to update far-from-diagonal
*>             matrix entries.
*>        = 1: DLAQR5 accumulates reflections and uses matrix-matrix
*>             multiply to update the far-from-diagonal matrix entries.
*>        = 2: DLAQR5 accumulates reflections, uses matrix-matrix
*>             multiply to update the far-from-diagonal matrix entries,
*>             and takes advantage of 2-by-2 block structure during
*>             matrix multiplies.
*> \endverbatim
```

```
*>
*> \param[in] N
*> \verbatim
*>          N is integer scalar
*>             N is the order of the Hessenberg matrix H upon which this
*>             subroutine operates.
*> \endverbatim
*>
*> \param[in] KTOP
*> \verbatim
*>          KTOP is integer scalar
*>
 \endverbatim
*>
*> \param[in] KBOT
*> \verbatim
*>          KBOT is integer scalar
*>             These are the first and last rows and columns of an
*>             isolated diagonal block upon which the QR sweep is to be
*>             applied. It is assumed without a check that
*>                      either KTOP = 1  or   H(KTOP,KTOP-1) = 0
*>             and
*>                      either KBOT = N  or   H(KBOT+1,KBOT) = 0.
*> \endverbatim
*>
*> \param[in] NSHFTS
*> \verbatim
*>          NSHFTS is integer scalar
*>             NSHFTS gives the number of simultaneous shifts.  NSHFTS
*>             must be positive and even.
*> \endverbatim
*>
*> \param[in,out] SR
*> \verbatim
*>          SR is DOUBLE PRECISION array of size (NSHFTS)
*> \endverbatim
*>
*> \param[in,out] SI
*> \verbatim
*>          SI is DOUBLE PRECISION array of size (NSHFTS)
*>             SR contains the real parts and SI contains the imaginary
*>             parts of the NSHFTS shifts of origin that define the
*>
            multi-shift QR sweep.  On output SR and SI may be
*>             reordered.
*> \endverbatim
*>
*> \param[in,out] H
```

```
*> \verbatim
*>          H is DOUBLE PRECISION array of size (LDH,N)
*>             On input H contains a Hessenberg matrix.  On output a
*>             multi-shift QR sweep with shifts SR(J)+i*SI(J) is applied
*>             to the isolated diagonal block in rows and columns KTOP
*>             through KBOT.
*> \endverbatim
*>
*> \param[in] LDH
*> \verbatim
*>          LDH is integer scalar
*>             LDH is the leading dimension of H just as declared in the
*>             calling procedure.  LDH.GE.MAX(1,N).
*> \endverbatim
*>
*> \param[in] ILOZ
*> \verbatim
*>          ILOZ is INTEGER
*> \endverbatim
*>
*> \param[in] IHIZ
*> \verbatim
*>          IHIZ is INTEGER
*>             Specify the rows of Z to which transformations must be
*>             applied if WANTZ is .TRUE.. 1 .LE. ILOZ .LE. IHIZ .LE. N
*> \endverbatim
*>
*> \param[in,out] Z
*> \verbatim
*>
          Z is DOUBLE PRECISION array of size (LDZ,IHI)
*>             If WANTZ = .TRUE., then the QR Sweep orthogonal
*>             similarity transformation is accumulated into
*>             Z(ILOZ:IHIZ,ILO:IHI) from the right.
*>             If WANTZ = .FALSE., then Z is unreferenced.
*> \endverbatim
*>
*> \param[in] LDZ
*> \verbatim
*>          LDZ is integer scalar
*>             LDA is the leading dimension of Z just as declared in
*>             the calling procedure. LDZ.GE.N.
*> \endverbatim
*>
*> \param[out] V
*> \verbatim
*>          V is DOUBLE PRECISION array of size (LDV,NSHFTS/2)
*> \endverbatim
```

```
*>
*> \param[in] LDV
*> \verbatim
*>          LDV is integer scalar
*>             LDV is the leading dimension of V as declared in the
*>             calling procedure.  LDV.GE.3.
*> \endverbatim
*>
*> \param[out] U
*> \verbatim
*>          U is DOUBLE PRECISION array of size
*>             (LDU,3*NSHFTS-3)
*> \endverbatim
*>
*> \param[in] LDU
*> \verbatim
*>          LDU
 is integer scalar
*>             LDU is the leading dimension of U just as declared in the
*>             in the calling subroutine.  LDU.GE.3*NSHFTS-3.
*> \endverbatim
*>
*> \param[in] NH
*> \verbatim
*>          NH is integer scalar
*>             NH is the number of columns in array WH available for
*>             workspace. NH.GE.1.
*> \endverbatim
*>
*> \param[out] WH
*> \verbatim
*>          WH is DOUBLE PRECISION array of size (LDWH,NH)
*> \endverbatim
*>
*> \param[in] LDWH
*> \verbatim
*>          LDWH is integer scalar
*>             Leading dimension of WH just as declared in the
*>             calling procedure.  LDWH.GE.3*NSHFTS-3.
*> \endverbatim
*>
*> \param[in] NV
*> \verbatim
*>          NV is integer scalar
*>             NV is the number of rows in WV agailable for workspace.
*>             NV.GE.1.
*> \endverbatim
*>
```

```
*> \param[out] WV
*> \verbatim
*>          WV is DOUBLE PRECISION array of size
*>             (LDWV,3*NSHFTS-3)
*> \endverbatim
*>
*> \param[in] LDWV
*>
 \verbatim
*>          LDWV is integer scalar
*>             LDWV is the leading dimension of WV as declared in the
*>             in the calling subroutine.  LDWV.GE.NV.
*> \endverbatim
*
*  Authors:
*  ========
*
*> \author Univ. of Tennessee
*> \author Univ. of California Berkeley
*> \author Univ. of Colorado Denver
*> \author NAG Ltd.
*
*> \date September 2012
*
*> \ingroup doubleOTHERauxiliary
*
*> \par Contributors:
*  ==================
*>
*>       Karen Braman and Ralph Byers, Department of Mathematics,
*>       University of Kansas, USA
*
*> \par References:
*  ================
*>
*>       K. Braman, R. Byers and R. Mathias, The Multi-Shift QR
*>       Algorithm Part I: Maintaining Well Focused Shifts, and Level 3
*>       Performance, SIAM Journal of Matrix Analysis, volume 23, pages
*>       929--947, 2002.
*>
*  =====================================================================
      SUBROUTINE DLAQR5( WANTT, WANTZ, KACC22, N, KTOP, KBOT, NSHFTS,
     $
       SR, SI, H, LDH, ILOZ, IHIZ, Z, LDZ, V, LDV, U,
     $                 LDU, NV, WV, LDWV, NH, WH, LDWH )
*
*  -- LAPACK auxiliary routine (version 3.4.2) --
*  -- LAPACK is a software package provided by Univ. of Tennessee,    --
```

```
*  -- Univ. of California Berkeley, Univ. of Colorado Denver and NAG Ltd..--
*     September 2012
*
*     .. Scalar Arguments ..
      INTEGER          IHIZ, ILOZ, KACC22, KBOT, KTOP, LDH, LDU, LDV,
     $                 LDWH, LDWV, LDZ, N, NH, NSHFTS, NV
      LOGICAL          WANTT, WANTZ
*     ..
*     .. Array Arguments ..
      DOUBLE PRECISION   H( LDH, * ), SI( * ), SR( * ), U( LDU, * ),
     $                 V( LDV, * ), WH( LDWH, * ), WV( LDWV, * ),
     $                 Z( LDZ, * )
*     ..
*
*  ================================================================
*     .. Parameters ..
      DOUBLE PRECISION   ZERO, ONE
      PARAMETER         ( ZERO = 0.0d0, ONE = 1.0d0 )
*     ..
*     .. Local Scalars ..
      DOUBLE PRECISION   ALPHA,
 BETA, H11, H12, H21, H22, REFSUM,
     $                 SAFMAX, SAFMIN, SCL, SMLNUM, SWAP, TST1, TST2,
     $                 ULP
      INTEGER          I, I2, I4, INCOL, J, J2, J4, JBOT, JCOL, JLEN,
     $                 JROW, JTOP, K, K1, KDU, KMS, KNZ, KRCOL, KZS,
     $                 M, M22, MBOT, MEND, MSTART, MTOP, NBMPS, NDCOL,
     $                 NS, NU
      LOGICAL          ACCUM, BLK22, BMP22
*     ..
*     .. External Functions ..
      DOUBLE PRECISION   DLAMCH
      EXTERNAL          DLAMCH
*     ..
*     .. Intrinsic Functions ..
*
      INTRINSIC         ABS, DBLE, MAX, MIN, MOD
*     ..
*     .. Local Arrays ..
      DOUBLE PRECISION   VT( 3 )
*     ..
*     .. External Subroutines ..
      EXTERNAL          DGEMM, DLABAD, DLACPY, DLAQR1, DLARFG, DLASET,
     $                 DTRMM
*     ..
*     .. Executable Statements ..
*
*     ==== If there are no shifts, then there is nothing to do. ====
```

```
*
      IF( NSHFTS.LT.2 )
     $   RETURN
*
*
      ==== If the active block is empty or 1-by-1, then there
*     .    is nothing to do. ====
*
      IF( KTOP.GE.KBOT )
     $   RETURN
*
*     ==== Shuffle shifts into pairs of real shifts and pairs
*     .    of complex conjugate shifts assuming complex
*     .    conjugate shifts are already adjacent to one
*     .    another. ====
*
      DO 10 I = 1, NSHFTS - 2, 2
        IF( SI( I ).NE.-SI( I+1 ) ) THEN
*
          SWAP = SR( I )
          SR( I ) = SR( I+1 )
          SR( I+1 ) = SR( I+2 )
          SR( I+2 ) = SWAP
*
          SWAP = SI( I )
          SI( I ) = SI( I+1 )
          SI( I+1 ) = SI( I+2 )
          SI( I+2 ) = SWAP
        END IF
   10 CONTINUE
*
*     ==== NSHFTS is supposed to be even, but if it is odd,
*     .    then simply reduce it by one.  The shuffle above
*     .    ensures that the dropped shift is real and that
*     .    the remaining shifts are paired. ====
*
      NS = NSHFTS - MOD( NSHFTS, 2 )
*
*     ==== Machine constants for
 deflation ====
*
      SAFMIN = DLAMCH( 'SAFE MINIMUM' )
      SAFMAX = ONE / SAFMIN
      CALL DLABAD( SAFMIN, SAFMAX )
      ULP = DLAMCH( 'PRECISION' )
      SMLNUM = SAFMIN*( DBLE( N ) / ULP )
*
*     ==== Use accumulated reflections to update far-from-diagonal
```

```
*     .    entries ? ====
*
      ACCUM = ( KACC22.EQ.1 ) .OR. ( KACC22.EQ.2 )
*
*     ==== If so, exploit the 2-by-2 block structure? ====
*
      BLK22 = ( NS.GT.2 ) .AND. ( KACC22.EQ.2 )
*
*     ==== clear trash ====
*
      IF( KTOP+2.LE.KBOT )
     $   H( KTOP+2, KTOP ) = ZERO
*
*     ==== NBMPS = number of 2-shift bulges in the chain ====
*
      NBMPS = NS / 2
*
*     ==== KDU = width of slab ====
*
      KDU = 6*NBMPS - 3
*
*     ==== Create and chase chains of NBMPS bulges ====
*
      DO 220 INCOL = 3*( 1-NBMPS ) + KTOP - 1, KBOT - 2, 3*NBMPS - 2
         NDCOL = INCOL + KDU
         IF( ACCUM )
     $      CALL DLASET( 'ALL', KDU, KDU, ZERO, ONE, U, LDU )
*
*        ==== Near-the-diagonal bulge chase.  The following
 loop
*        .    performs the near-the-diagonal part of a small bulge
*        .    multi-shift QR sweep.  Each 6*NBMPS-2 column diagonal
*        .    chunk extends from column INCOL to column NDCOL
*        .    (including both column INCOL and column NDCOL). The
*        .    following loop chases a 3*NBMPS column long chain of
*        .    NBMPS bulges 3*NBMPS-2 columns to the right.  (INCOL
*        .    may be less than KTOP and and NDCOL may be greater than
*        .    KBOT indicating phantom columns from which to chase
*        .    bulges before they are actually introduced or to which
*        .    to chase bulges beyond column KBOT.)  ====
*
         DO 150 KRCOL = INCOL, MIN( INCOL+3*NBMPS-3, KBOT-2 )
*
*           ==== Bulges number MTOP to MBOT are active double implicit
*           .    shift bulges.  There may or may not also be small
*           .    2-by-2 bulge, if there is room.  The inactive bulges
*           .    (if any) must wait until the active bulges
```

```
 have moved
*          .    down the diagonal to make room.  The phantom matrix
*          .    paradigm described above helps keep track.  ====
*
         MTOP = MAX( 1, ( ( KTOP-1 )-KRCOL+2 ) / 3+1 )
         MBOT = MIN( NBMPS, ( KBOT-KRCOL ) / 3 )
         M22 = MBOT + 1
         BMP22 = ( MBOT.LT.NBMPS ) .AND. ( KRCOL+3*( M22-1 ) ).EQ.
   $            ( KBOT-2 )
*
*         ==== Generate reflections to chase the chain right
*          .    one column.  (The minimum value of K is KTOP-1.) ====
*
         DO 20 M = MTOP, MBOT
           K = KRCOL + 3*( M-1 )
           IF( K.EQ.KTOP-1 ) THEN
             CALL DLAQR1( 3, H( KTOP, KTOP ), LDH, SR( 2*M-1 ),
   $                      SI( 2*M-1 ), SR( 2*M ), SI( 2*M ),
   $                      V( 1, M ) )
             ALPHA = V( 1, M )
             CALL DLARFG( 3, ALPHA, V( 2, M ), 1, V( 1, M ) )
           ELSE
             BETA = H( K+1, K )
             V( 2, M )
 = H( K+2, K )
             V( 3, M ) = H( K+3, K )
             CALL DLARFG( 3, BETA, V( 2, M ), 1, V( 1, M ) )
*
*              ==== A Bulge may collapse because of vigilant
*              .    deflation or destructive underflow.  In the
*              .    underflow case, try the two-small-subdiagonals
*              .    trick to try to reinflate the bulge.  ====
*
             IF( H( K+3, K ).NE.ZERO .OR. H( K+3, K+1 ).NE.
   $             ZERO .OR. H( K+3, K+2 ).EQ.ZERO ) THEN
*
*                ==== Typical case: not collapsed (yet). ====
*
               H( K+1, K ) = BETA
               H( K+2, K ) = ZERO
               H( K+3, K ) = ZERO
             ELSE
*
*                ==== Atypical case: collapsed.  Attempt to
*                .    reintroduce ignoring H(K+1,K) and H(K+2,K).
*                .    If the fill resulting from the new
*                .    reflector is too large, then abandon it.
*
```

```
            .    Otherwise, use the new one. ====
*
             CALL DLAQR1( 3, H( K+1, K+1 ), LDH, SR( 2*M-1 ),
   $                  SI( 2*M-1 ), SR( 2*M ), SI( 2*M ),
   $                  VT )
             ALPHA = VT( 1 )
             CALL DLARFG( 3, ALPHA, VT( 2 ), 1, VT( 1 ) )
             REFSUM = VT( 1 )*( H( K+1, K )+VT( 2 )*
   $                H( K+2, K ) )
*
             IF( ABS( H( K+2, K )-REFSUM*VT( 2 ) )+
   $            ABS( REFSUM*VT( 3 ) ).GT.ULP*
   $            ( ABS( H( K, K ) )+ABS( H( K+1,
   $            K+1 ) )+ABS( H( K+2, K+2 ) ) ) ) THEN
*
*               ==== Starting a new bulge here would
*               .    create non-negligible fill.  Use
*               .    the old one with trepidation. ====
*
               H( K+1, K ) = BETA
               H( K+2, K ) = ZERO
               H( K+3, K ) = ZERO
             ELSE
*
*               ==== Stating a new bulge here would
*               .    create only negligible fill.
*               .    Replace the old reflector with
*               .    the new one. ====
*
               H( K+1, K ) = H( K+1, K ) - REFSUM
               H( K+2, K ) = ZERO
               H( K+3, K ) = ZERO
               V( 1, M ) = VT( 1 )
               V( 2, M ) = VT( 2 )
               V( 3, M ) = VT( 3 )
             END IF
           END IF
         END IF
 20    CONTINUE
*
*      ==== Generate a 2-by-2 reflection, if needed. ====
*
       K = KRCOL + 3*( M22-1 )
       IF( BMP22 ) THEN
         IF( K.EQ.KTOP-1 ) THEN
           CALL DLAQR1( 2, H( K+1, K+1 ), LDH, SR( 2*M22-1 ),
   $                  SI( 2*M22-1 ), SR( 2*M22 ), SI( 2*M22 ),
   $                  V( 1, M22 ) )
```

```
  BETA = V( 1, M22 )
            CALL DLARFG( 2, BETA, V( 2, M22 ), 1, V( 1, M22 ) )
          ELSE
            BETA = H( K+1, K )
            V( 2, M22 ) = H( K+2, K )
            CALL DLARFG( 2, BETA, V( 2, M22 ), 1, V( 1, M22 ) )
            H( K+1, K ) = BETA
            H( K+2, K ) = ZERO
          END IF
        END IF
*
*         ==== Multiply H by reflections from the left ====
*
        IF( ACCUM ) THEN
          JBOT = MIN( NDCOL, KBOT )
        ELSE IF( WANTT ) THEN
          JBOT = N
        ELSE
          JBOT = KBOT
        END IF
        DO 40 J = MAX( KTOP, KRCOL ), JBOT
          MEND = MIN( MBOT, ( J-KRCOL+2 ) / 3 )
          DO 30 M = MTOP, MEND
            K = KRCOL + 3*( M-1 )
            REFSUM = V( 1, M )*( H( K+1, J )+V( 2, M )*
     $                 H( K+2, J )+V( 3, M )*H( K+3, J ) )
            H( K+1, J ) = H( K+1, J ) - REFSUM

      H( K+2, J ) = H( K+2, J ) - REFSUM*V( 2, M )
            H( K+3, J ) = H( K+3, J ) - REFSUM*V( 3, M )
 30         CONTINUE
 40       CONTINUE
        IF( BMP22 ) THEN
          K = KRCOL + 3*( M22-1 )
          DO 50 J = MAX( K+1, KTOP ), JBOT
            REFSUM = V( 1, M22 )*( H( K+1, J )+V( 2, M22 )*
     $                 H( K+2, J ) )
            H( K+1, J ) = H( K+1, J ) - REFSUM
            H( K+2, J ) = H( K+2, J ) - REFSUM*V( 2, M22 )
 50         CONTINUE
        END IF
*
*         ==== Multiply H by reflections from the right.
*         .    Delay filling in the last row until the
*         .    vigilant deflation check is complete. ====
*
        IF( ACCUM ) THEN
```

```
          JTOP = MAX( KTOP, INCOL )
        ELSE IF( WANTT ) THEN
          JTOP = 1
        ELSE
          JTOP = KTOP
        END IF
        DO 90 M = MTOP, MBOT
          IF( V( 1, M ).NE.ZERO ) THEN

       K = KRCOL + 3*( M-1 )
            DO 60 J = JTOP, MIN( KBOT, K+3 )
              REFSUM = V( 1, M )*( H( J, K+1 )+V( 2, M )*
   $                  H( J, K+2 )+V( 3, M )*H( J, K+3 ) )
              H( J, K+1 ) = H( J, K+1 ) - REFSUM
              H( J, K+2 ) = H( J, K+2 ) - REFSUM*V( 2, M )
              H( J, K+3 ) = H( J, K+3 ) - REFSUM*V( 3, M )
 60           CONTINUE
*
            IF( ACCUM ) THEN
*
*             ==== Accumulate U. (If necessary, update Z later
*             .   with with an efficient matrix-matrix
*             .   multiply.) ====
*
              KMS = K - INCOL
              DO 70 J = MAX( 1, KTOP-INCOL ), KDU
                REFSUM = V( 1, M )*( U( J, KMS+1 )+V( 2, M )*
   $                  U( J, KMS+2 )+V( 3, M )*U( J, KMS+3 ) )
                U( J, KMS+1 ) = U( J, KMS+1 ) - REFSUM
                U( J, KMS+2 ) = U( J, KMS+2 ) -
 REFSUM*V( 2, M )
                U( J, KMS+3 ) = U( J, KMS+3 ) - REFSUM*V( 3, M )
 70           CONTINUE
            ELSE IF( WANTZ ) THEN
*
*             ==== U is not accumulated, so update Z
*             .   now by multiplying by reflections
*             .   from the right. ====
*
              DO 80 J = ILOZ, IHIZ
                REFSUM = V( 1, M )*( Z( J, K+1 )+V( 2, M )*
   $                  Z( J, K+2 )+V( 3, M )*Z( J, K+3 ) )
                Z( J, K+1 ) = Z( J, K+1 ) - REFSUM
                Z( J, K+2 ) = Z( J, K+2 ) - REFSUM*V( 2, M )
                Z( J, K+3 ) = Z( J, K+3 ) - REFSUM*V( 3, M )
 80           CONTINUE
            END IF
          END IF
```

```
 90     CONTINUE
*
*       ==== Special case: 2-by-2 reflection (if needed) ====
*
      K = KRCOL + 3*( M22-1 )
      IF( BMP22 ) THEN
        IF ( V( 1, M22 ).NE.ZERO ) THEN

    DO 100 J = JTOP, MIN( KBOT, K+3 )
            REFSUM = V( 1, M22 )*( H( J, K+1 )+V( 2, M22 )*
  $                 H( J, K+2 ) )
            H( J, K+1 ) = H( J, K+1 ) - REFSUM
            H( J, K+2 ) = H( J, K+2 ) - REFSUM*V( 2, M22 )
100         CONTINUE
*
          IF( ACCUM ) THEN
            KMS = K - INCOL
            DO 110 J = MAX( 1, KTOP-INCOL ), KDU
              REFSUM = V( 1, M22 )*( U( J, KMS+1 )+
  $                 V( 2, M22 )*U( J, KMS+2 ) )
              U( J, KMS+1 ) = U( J, KMS+1 ) - REFSUM
              U( J, KMS+2 ) = U( J, KMS+2 ) -
  $                     REFSUM*V( 2, M22 )
110         CONTINUE
          ELSE IF( WANTZ ) THEN
            DO 120 J = ILOZ, IHIZ
              REFSUM = V( 1, M22 )*( Z( J, K+1 )+V( 2, M22 )*
  $                 Z( J, K+2 ) )
              Z( J, K+1 )
= Z( J, K+1 ) - REFSUM
              Z( J, K+2 ) = Z( J, K+2 ) - REFSUM*V( 2, M22 )
120           CONTINUE
          END IF
        END IF
      END IF
*
*       ==== Vigilant deflation check ====
*
      MSTART = MTOP
      IF( KRCOL+3*( MSTART-1 ).LT.KTOP )
  $     MSTART = MSTART + 1
      MEND = MBOT
      IF( BMP22 )
  $     MEND = MEND + 1
      IF( KRCOL.EQ.KBOT-2 )
  $     MEND = MEND + 1
      DO 130 M = MSTART, MEND
        K = MIN( KBOT-1, KRCOL+3*( M-1 ) )
```

```
*
*          ==== The following convergence test requires that
*          .    the tradition small-compared-to-nearby-diagonals
*          .    criterion and the Ahues & Tisseur (LAWN 122, 1997)
*          .    criteria both be satisfied.  The latter improves
*          .    accuracy in some examples. Falling back on an
*          .    alternate convergence criterion when TST1 or TST2
*
     .    is zero (as done here) is traditional but probably
*          .    unnecessary. ====
*
         IF( H( K+1, K ).NE.ZERO ) THEN
           TST1 = ABS( H( K, K ) ) + ABS( H( K+1, K+1 ) )
           IF( TST1.EQ.ZERO ) THEN
             IF( K.GE.KTOP+1 )
  $             TST1 = TST1 + ABS( H( K, K-1 ) )
             IF( K.GE.KTOP+2 )
  $             TST1 = TST1 + ABS( H( K, K-2 ) )
             IF( K.GE.KTOP+3 )
  $             TST1 = TST1 + ABS( H( K, K-3 ) )
             IF( K.LE.KBOT-2 )
  $             TST1 = TST1 + ABS( H( K+2, K+1 ) )
             IF( K.LE.KBOT-3 )
  $             TST1 = TST1 + ABS( H( K+3, K+1 ) )
             IF( K.LE.KBOT-4 )
  $             TST1 = TST1 + ABS( H( K+4, K+1 ) )
           END IF
           IF( ABS( H( K+1, K ) ).LE.MAX( SMLNUM, ULP*TST1 ) )
  $            THEN
             H12 = MAX( ABS( H(
 K+1, K ) ), ABS( H( K, K+1 ) ) )
             H21 = MIN( ABS( H( K+1, K ) ), ABS( H( K, K+1 ) ) )
             H11 = MAX( ABS( H( K+1, K+1 ) ),
  $               ABS( H( K, K )-H( K+1, K+1 ) ) )
             H22 = MIN( ABS( H( K+1, K+1 ) ),
  $               ABS( H( K, K )-H( K+1, K+1 ) ) )
             SCL = H11 + H12
             TST2 = H22*( H11 / SCL )
*
             IF( TST2.EQ.ZERO .OR. H21*( H12 / SCL ).LE.
  $              MAX( SMLNUM, ULP*TST2 ) )H( K+1, K ) = ZERO
           END IF
         END IF
 130     CONTINUE
*
*        ==== Fill in the last row of each bulge. ====
*
       MEND = MIN( NBMPS, ( KBOT-KRCOL-1 ) / 3 )
```

```
         DO 140 M = MTOP, MEND
           K = KRCOL + 3*( M-1 )
           REFSUM = V( 1, M )*V( 3, M )*H( K+4, K+3 )
           H( K+4, K+1 ) = -REFSUM
           H( K+4, K+2 ) = -REFSUM*V( 2, M )
           H( K+4, K+3 ) = H( K+4, K+3 )
 - REFSUM*V( 3, M )
 140       CONTINUE
*
*          ==== End of near-the-diagonal bulge chase. ====
*
 150     CONTINUE
*
*       ==== Use U (if accumulated) to update far-from-diagonal
*       .    entries in H.  If required, use U to update Z as
*       .    well. ====
*
       IF( ACCUM ) THEN
         IF( WANTT ) THEN
           JTOP = 1
           JBOT = N
         ELSE
           JTOP = KTOP
           JBOT = KBOT
         END IF
         IF( ( .NOT.BLK22 ) .OR. ( INCOL.LT.KTOP ) .OR.
    $        ( NDCOL.GT.KBOT ) .OR. ( NS.LE.2 ) ) THEN
*
*            ==== Updates not exploiting the 2-by-2 block
*            .    structure of U.  K1 and NU keep track of
*            .    the location and size of U in the special
*            .    cases of introducing bulges and chasing
*            .    bulges off the bottom.  In these special
*            .    cases and in case the number of shifts
*            .    is NS = 2, there is no 2-by-2
 block
*            .    structure to exploit.  ====
*
           K1 = MAX( 1, KTOP-INCOL )
           NU = ( KDU-MAX( 0, NDCOL-KBOT ) ) - K1 + 1
*
*            ==== Horizontal Multiply ====
*
           DO 160 JCOL = MIN( NDCOL, KBOT ) + 1, JBOT, NH
             JLEN = MIN( NH, JBOT-JCOL+1 )
             CALL DGEMM( 'C', 'N', NU, JLEN, NU, ONE, U( K1, K1 ),
    $                    LDU, H( INCOL+K1, JCOL ), LDH, ZERO, WH,
    $                    LDWH )
```

```
            CALL DLACPY( 'ALL', NU, JLEN, WH, LDWH,
   $                    H( INCOL+K1, JCOL ), LDH )
 160        CONTINUE
*
*           ==== Vertical multiply ====
*
          DO 170 JROW = JTOP, MAX( KTOP, INCOL ) - 1, NV
            JLEN = MIN( NV, MAX( KTOP, INCOL )-JROW )
            CALL DGEMM( 'N', 'N', JLEN, NU, NU, ONE,
   $                   H( JROW, INCOL+K1 ), LDH, U( K1, K1 ),
   $                   LDU, ZERO, WV, LDWV )

     CALL DLACPY( 'ALL', JLEN, NU, WV, LDWV,
   $                    H( JROW, INCOL+K1 ), LDH )
 170        CONTINUE
*
*           ==== Z multiply (also vertical) ====
*
          IF( WANTZ ) THEN
            DO 180 JROW = ILOZ, IHIZ, NV
              JLEN = MIN( NV, IHIZ-JROW+1 )
              CALL DGEMM( 'N', 'N', JLEN, NU, NU, ONE,
   $                     Z( JROW, INCOL+K1 ), LDZ, U( K1, K1 ),
   $                     LDU, ZERO, WV, LDWV )
              CALL DLACPY( 'ALL', JLEN, NU, WV, LDWV,
   $                      Z( JROW, INCOL+K1 ), LDZ )
 180          CONTINUE
          END IF
        ELSE
*
*           ==== Updates exploiting U's 2-by-2 block structure.
*           .    (I2, I4, J2, J4 are the last rows and columns
*           .    of the blocks.) ====
*
          I2 = ( KDU+1 ) / 2
          I4 = KDU
          J2 = I4 - I2
          J4 = KDU
*
*           ====
 KZS and KNZ deal with the band of zeros
*           .    along the diagonal of one of the triangular
*           .    blocks. ====
*
          KZS = ( J4-J2 ) - ( NS+1 )
          KNZ = NS + 1
*
*           ==== Horizontal multiply ====
```

```
*
      DO 190 JCOL = MIN( NDCOL, KBOT ) + 1, JBOT, NH
        JLEN = MIN( NH, JBOT-JCOL+1 )
*
*         ==== Copy bottom of H to top+KZS of scratch ====
*          (The first KZS rows get multiplied by zero.) ====
*
        CALL DLACPY( 'ALL', KNZ, JLEN, H( INCOL+1+J2, JCOL ),
     $                LDH, WH( KZS+1, 1 ), LDWH )
*
*         ==== Multiply by U21**T ====
*
        CALL DLASET( 'ALL', KZS, JLEN, ZERO, ZERO, WH, LDWH )
        CALL DTRMM( 'L', 'U', 'C', 'N', KNZ, JLEN, ONE,
     $              U( J2+1, 1+KZS ), LDU, WH( KZS+1, 1 ),
     $              LDWH )
*
*         ==== Multiply top of H by U11**T ====
*

      CALL DGEMM( 'C', 'N', I2, JLEN, J2, ONE, U, LDU,
     $              H( INCOL+1, JCOL ), LDH, ONE, WH, LDWH )
*
*         ==== Copy top of H to bottom of WH ====
*
        CALL DLACPY( 'ALL', J2, JLEN, H( INCOL+1, JCOL ), LDH,
     $               WH( I2+1, 1 ), LDWH )
*
*         ==== Multiply by U21**T ====
*
        CALL DTRMM( 'L', 'L', 'C', 'N', J2, JLEN, ONE,
     $              U( 1, I2+1 ), LDU, WH( I2+1, 1 ), LDWH )
*
*         ==== Multiply by U22 ====
*
        CALL DGEMM( 'C', 'N', I4-I2, JLEN, J4-J2, ONE,
     $              U( J2+1, I2+1 ), LDU,
     $              H( INCOL+1+J2, JCOL ), LDH, ONE,
     $              WH( I2+1, 1 ), LDWH )
*
*         ==== Copy it back ====
*
        CALL DLACPY( 'ALL', KDU, JLEN, WH, LDWH,
     $               H( INCOL+1, JCOL ), LDH )
 190    CONTINUE
*
*       ==== Vertical
```

```
 multiply ====
*
          DO 200 JROW = JTOP, MAX( INCOL, KTOP ) - 1, NV
            JLEN = MIN( NV, MAX( INCOL, KTOP )-JROW )
*
*             ==== Copy right of H to scratch (the first KZS
*             .    columns get multiplied by zero) ====
*
            CALL DLACPY( 'ALL', JLEN, KNZ, H( JROW, INCOL+1+J2 ),
   $                     LDH, WV( 1, 1+KZS ), LDWV )
*
*             ==== Multiply by U21 ====
*
            CALL DLASET( 'ALL', JLEN, KZS, ZERO, ZERO, WV, LDWV )
            CALL DTRMM( 'R', 'U', 'N', 'N', JLEN, KNZ, ONE,
   $                    U( J2+1, 1+KZS ), LDU, WV( 1, 1+KZS ),
   $                    LDWV )
*
*             ==== Multiply by U11 ====
*
            CALL DGEMM( 'N', 'N', JLEN, I2, J2, ONE,
   $                    H( JROW, INCOL+1 ), LDH, U, LDU, ONE, WV,
   $                    LDWV )
*
*             ==== Copy left of H to right of scratch ====
*
            CALL DLACPY(
 'ALL', JLEN, J2, H( JROW, INCOL+1 ), LDH,
   $                     WV( 1, 1+I2 ), LDWV )
*
*             ==== Multiply by U21 ====
*
            CALL DTRMM( 'R', 'L', 'N', 'N', JLEN, I4-I2, ONE,
   $                    U( 1, I2+1 ), LDU, WV( 1, 1+I2 ), LDWV )
*
*             ==== Multiply by U22 ====
*
            CALL DGEMM( 'N', 'N', JLEN, I4-I2, J4-J2, ONE,
   $                    H( JROW, INCOL+1+J2 ), LDH,
   $                    U( J2+1, I2+1 ), LDU, ONE, WV( 1, 1+I2 ),
   $                    LDWV )
*
*             ==== Copy it back ====
*
            CALL DLACPY( 'ALL', JLEN, KDU, WV, LDWV,
   $                     H( JROW, INCOL+1 ), LDH )
 200        CONTINUE
*
```

```
*           ==== Multiply Z (also vertical) ====
*
          IF( WANTZ ) THEN
            DO 210 JROW = ILOZ, IHIZ, NV
              JLEN = MIN( NV, IHIZ-JROW+1 )
*
*               ==== Copy right of Z to left of scratch
 (first
*               .    KZS columns get multiplied by zero) ====
*
              CALL DLACPY( 'ALL', JLEN, KNZ,
   $                    Z( JROW, INCOL+1+J2 ), LDZ,
   $                    WV( 1, 1+KZS ), LDWV )
*
*               ==== Multiply by U12 ====
*
              CALL DLASET( 'ALL', JLEN, KZS, ZERO, ZERO, WV,
   $                    LDWV )
              CALL DTRMM( 'R', 'U', 'N', 'N', JLEN, KNZ, ONE,
   $                    U( J2+1, 1+KZS ), LDU, WV( 1, 1+KZS ),
   $                    LDWV )
*
*               ==== Multiply by U11 ====
*
              CALL DGEMM( 'N', 'N', JLEN, I2, J2, ONE,
   $                    Z( JROW, INCOL+1 ), LDZ, U, LDU, ONE,
   $                    WV, LDWV )
*
*               ==== Copy left of Z to right of scratch ====
*
              CALL DLACPY( 'ALL', JLEN, J2, Z( JROW, INCOL+1 ),
   $                    LDZ,
 WV( 1, 1+I2 ), LDWV )
*
*               ==== Multiply by U21 ====
*
              CALL DTRMM( 'R', 'L', 'N', 'N', JLEN, I4-I2, ONE,
   $                    U( 1, I2+1 ), LDU, WV( 1, 1+I2 ),
   $                    LDWV )
*
*               ==== Multiply by U22 ====
*
              CALL DGEMM( 'N', 'N', JLEN, I4-I2, J4-J2, ONE,
   $                    Z( JROW, INCOL+1+J2 ), LDZ,
   $                    U( J2+1, I2+1 ), LDU, ONE,
   $                    WV( 1, 1+I2 ), LDWV )
*
*               ==== Copy the result back to Z ====
```

```
*
                CALL DLACPY( 'ALL', JLEN, KDU, WV, LDWV,
   $                     Z( JROW, INCOL+1 ), LDZ )
 210            CONTINUE
            END IF
          END IF
        END IF
 220 CONTINUE
*
*     ==== End of DLAQR5 ====
*
     END
```

graph{{Stri}Stri{{Stri}{Stri}Stri}Stri}

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digraph {st9->st9[l=""]st9->st0[l=""]st8->st8[l=""]st8->st0[l=""]st7->st8[l=""]st7->st7[l=""]st6->st6[l=""]st6->st0[l=""]st5->st6[l=""]st5->st5[l=""]st4->st4[l=""]st4->st0[l=""]st3->st4[l=""]st3->st3[l=""]st2->st9[l=""]st2->st7[l=""]st2->st2[l=""]st0->st0[l=""]st0->st0[l=""]st1->st5[l=""]st1->st3[l=""]st1->st1[l=""]st0->st2[l=""]st0->st1[l=""]st0->st0[l=""]}

graph{{DIGRAG{{DIGRAG}{DIGRAG}}}}

graph{SubGrap1}

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```
package testlapack

import (
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
 "gonum.org/v1/gonum/floats"
)

type Dgelq2er interface {
```

```
 Dgelq2(m, n int, a []float64, lda int, tau, work []float64)
}

func Dgelq2Test(t *testing.T, impl Dgelq2er) {
 rnd := rand.New(rand.NewSource(1))
 for c, test := range []struct {
  m, n, lda int
 }{
  {1, 1, 0},
  {2, 2, 0},
  {3, 2, 0},
  {2, 3, 0},
  {1, 12, 0},
  {2, 6, 0},
  {3, 4, 0},
  {4, 3, 0},
  {6, 2, 0},
  {1, 12, 0},
  {1, 1, 20},
  {2, 2, 20},
  {3, 2, 20},
  {2, 3, 20},
  {1, 12, 20},
  {2, 6, 20},
  {3, 4, 20},
  {4, 3, 20},
  {6, 2, 20},
  {1, 12, 20},
 } {
  n := test.n
  m := test.m
  lda := test.lda
  if lda == 0 {
   lda = test.n
  }
  k := min(m, n)
  tau := make([]float64, k)
  for i := range tau {
   tau[i] = rnd.Float64()
  }
  work
 := make([]float64, m)
  for i := range work {
   work[i] = rnd.Float64()
  }
  a := make([]float64, m*lda)
  for i := 0; i < m*lda; i++ {
   a[i] = rnd.Float64()
```

```
 }
 aCopy := make([]float64, len(a))
 copy(aCopy, a)
 impl.Dgelq2(m, n, a, lda, tau, work)

 Q := constructQ("LQ", m, n, a, lda, tau)

 // Check that Q is orthogonal.
 if !isOrthogonal(Q) {
  t.Errorf("Case %v: Q not orthogonal", c)
 }

 L := blas64.General{
  Rows:   m,
  Cols:   n,
  Stride: n,
  Data:   make([]float64, m*n),
 }
 for i := 0; i < m; i++ {
  for j := 0; j <= min(i, n-1); j++ {
   L.Data[i*L.Stride+j] = a[i*lda+j]
  }
 }

 ans := blas64.General{
  Rows:   m,
  Cols:   n,
  Stride: lda,
  Data:   make([]float64, m*lda),
 }
 copy(ans.Data, aCopy)
 blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, L, Q, 0, ans)
 if !floats.EqualApprox(aCopy, ans.Data, 1e-14) {
  t.Errorf("Case %v, LQ mismatch. Want %v, got %v.", c, aCopy, ans.Data)
 }
}
}
```

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```
package testblas

import (
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
)

func DtrmvBenchmark(b *testing.B, dtrmv Dtrmver, n, lda, incX int, ul blas.Uplo, tA blas.Transpose, d blas.Diag) {
 rnd := rand.New(rand.NewSource(0))
 a := make([]float64, n*lda)
 for i := range a {
  a[i] = rnd.Float64()
 }

 x := make([]float64, n*incX)
 for i := range x {
  x[i] = rnd.Float64()
 }

 b.ResetTimer()
 for i := 0; i < b.N; i++ {
  dtrmv.Dtrmv(ul, tA, d, n, a, lda, x, incX)
 }
}
```

Graph{DIGRAP}
graph{Gr{{Gr{Gr}Gr{Gr}}Gr}}
//** github.com/twitchyliquid64/golang-asm@v0.15.0 **//

{{Types "MIT Apache-2.0"}}

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graph{subgra}

```
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// license that can be found in the LICENSE file.

package testlapack

import (
 "fmt"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
)

type Dorgqler interface {
 Dorgql(m, n, k int, a []float64, lda int, tau, work []float64, lwork int)

 Dlarfger
}

func DorgqlTest(t *testing.T, impl Dorgqler) {
 const tol = 1e-14

 type Dorg2ler interface {
  Dorg2l(m, n, k int, a []float64, lda int, tau, work []float64)
 }
 dorg2ler, hasDorg2l := impl.(Dorg2ler)

 rnd := rand.New(rand.NewSource(1))
 for _, m := range []int{0, 1, 2, 3, 4, 5, 7, 10, 15, 30, 50, 150} {
  for _, extra := range []int{0, 11} {
   for _, wl := range []worklen{minimumWork, mediumWork, optimumWork} {
    var k int
    if m >= 129 {
     // For large matrices make sure that k
     // is large enough to trigger blocked
     // path.
     k = 129 + rnd.Intn(m-129+1)
    }
```

```
else {
    k = rnd.Intn(m + 1)
   }
   n := k + rnd.Intn(m-k+1)
   if m == 0 || n == 0 {
    m = 0
    n = 0
    k = 0
   }

   // Generate k elementary reflectors in the last
   // k columns of A.
   a := nanGeneral(m, n, n+extra)
   tau := make([]float64, k)
   for l := 0; l < k; l++ {
    jj := m - k + l
    v := randomSlice(jj, rnd)
    _, tau[l] = impl.Dlarfg(len(v)+1, rnd.NormFloat64(), v, 1)
    j := n - k + l
    for i := 0; i < jj; i++ {
     a.Data[i*a.Stride+j] = v[i]
    }
   }
   aCopy := cloneGeneral(a)

   // Compute the full matrix Q by forming the
   // Householder reflectors explicitly.
   q := eye(m, m)
   qCopy := eye(m, m)
   for l := 0; l < k; l++ {
    h := eye(m, m)
    jj := m - k + l
    j := n - k + l
    v := blas64.Vector{Data: make([]float64, m), Inc: 1}
    for i := 0; i < jj; i++ {
     v.Data[i] = a.Data[i*a.Stride+j]
    }
    v.Data[jj] = 1
    blas64.Ger(-tau[l], v, v, h)
    copy(qCopy.Data, q.Data)
    blas64.Gemm(blas.NoTrans,
blas.NoTrans, 1, h, qCopy, 0, q)
   }
   // View the last n columns of Q as 'want'.
   want := blas64.General{
    Rows:   m,
    Cols:   n,
    Stride: q.Stride,
```

```
    Data:   q.Data[m-n:],
   }

   var lwork int
   switch wl {
   case minimumWork:
    lwork = max(1, n)
   case mediumWork:
    work := make([]float64, 1)
    impl.Dorgql(m, n, k, a.Data, a.Stride, tau, work, -1)
    lwork = (int(work[0]) + n) / 2
    lwork = max(1, lwork)
   case optimumWork:
    work := make([]float64, 1)
    impl.Dorgql(m, n, k, a.Data, a.Stride, tau, work, -1)
    lwork = int(work[0])
   }
   work := make([]float64, lwork)

   // Compute the last n columns of Q by a call to
   // Dorgql.
   impl.Dorgql(m, n, k, a.Data, a.Stride, tau, work, len(work))

   prefix := fmt.Sprintf("Case m=%v,n=%v,k=%v,wl=%v", m, n, k, wl)
   if !generalOutsideAllNaN(a) {
    t.Errorf("%v: out-of-range write to A", prefix)
   }
   if !equalApproxGeneral(want, a, tol) {
    t.Errorf("%v:
 unexpected Q", prefix)
   }

   // Compute the last n columns of Q by a call to
   // Dorg2l and check that we get the same result.
   if !hasDorg2l {
    continue
   }
   dorg2ler.Dorg2l(m, n, k, aCopy.Data, aCopy.Stride, tau, work)
   if !equalApproxGeneral(aCopy, a, tol) {
    t.Errorf("%v: mismatch between Dorgql and Dorg2l", prefix)
   }
  }
 }
}
}
digraph{{S8 S4 S1 S5 S0}{}S8-9S4-7S4-5S1-0S1-2S5-6S5-3S0-1S0-3-2->1->1-6->4-3-6-7->1-8-1-4->1-3-2->1-2-
>0-4-4-4-4S8 S2-5-9-9-4-5-9-1-8-0-9-9-8-0-9-3-9-5-9-4-9-5-1-0-8-6->5-3-2-5->9->7->1->3->5S4->0->8->4->1}
```

```
graph{{G_ G_}}
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package math32

import (
 "math"
)

const (
 unan    = 0x7fc00000
 uinf    = 0x7f800000
 uneginf = 0xff800000
 mask    = 0x7f8 >> 3
 shift   = 32 - 8 - 1
 bias    = 127
)

// Abs returns the absolute value of x.
//
// Special cases are:
// Abs(Inf) = +Inf
// Abs(NaN) = NaN
func Abs(x float32) float32 {
 switch {
 case x < 0:
  return -x
 case x == 0:
  return 0 // return correctly abs(-0)
 }
 return x
}

// Copysign returns a value with the magnitude
// of x and the sign of y.
func Copysign(x, y float32) float32 {
```

```
 const sign = 1 << 31
 return math.Float32frombits(math.Float32bits(x)&^sign | math.Float32bits(y)&sign)
}

// Hypot returns Sqrt(p*p + q*q), taking care to avoid
//
 unnecessary overflow and underflow.
//
// Special cases are:
// Hypot(Inf, q) = +Inf
// Hypot(p, Inf) = +Inf
// Hypot(NaN, q) = NaN
// Hypot(p, NaN) = NaN
func Hypot(p, q float32) float32 {
 // special cases
 switch {
 case IsInf(p, 0) || IsInf(q, 0):
  return Inf(1)
 case IsNaN(p) || IsNaN(q):
  return NaN()
 }
 if p < 0 {
  p = -p
 }
 if q < 0 {
  q = -q
 }
 if p < q {
  p, q = q, p
 }
 if p == 0 {
  return 0
 }
 q = q / p
 return p * Sqrt(1+q*q)
}

// Inf returns positive infinity if sign >= 0, negative infinity if sign < 0.
func Inf(sign int) float32 {
 var v uint32
 if sign >= 0 {
  v = uinf
 } else {
  v = uneginf
 }
 return math.Float32frombits(v)
}
```

```
// IsInf reports whether f is an infinity, according to sign.
// If sign > 0, IsInf reports whether f is positive infinity.
// If sign < 0, IsInf reports whether f is negative infinity.
// If sign == 0, IsInf reports whether f is either infinity.
func IsInf(f float32, sign int) bool {
 // Test for infinity by comparing against
 maximum float.
 // To avoid the floating-point hardware, could use:
 // x := math.Float32bits(f);
 // return sign >= 0 && x == uinf || sign <= 0 && x == uneginf;
 return sign >= 0 && f > math.MaxFloat32 || sign <= 0 && f < -math.MaxFloat32
}

// IsNaN reports whether f is an IEEE 754 ``not-a-number'' value.
func IsNaN(f float32) (is bool) {
 // IEEE 754 says that only NaNs satisfy f != f.
 // To avoid the floating-point hardware, could use:
 // x := math.Float32bits(f);
 // return uint32(x>>shift)&mask == mask && x != uinf && x != uneginf
 return f != f
}

// NaN returns an IEEE 754 ``not-a-number'' value.
func NaN() float32 { return math.Float32frombits(unan) }
graph{<<====>>}
graph{{nod{{nod{nod}}}nod{nod}}}
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package path

import (
 "container/heap"

 "gonum.org/v1/gonum/graph"
 "gonum.org/v1/gonum/graph/internal/set"
 "gonum.org/v1/gonum/graph/traverse"
)

// AStar finds the A*-shortest path from s to t in g using the heuristic h. The path and
// its cost are returned in a Shortest along with paths and costs to all nodes explored
// during the search. The number of expanded nodes is also returned. This value may help
// with heuristic tuning.
//
// The path will be the shortest path if the heuristic is admissible. A heuristic is
// admissible if for any node, n, in the graph, the heuristic estimate of the cost of
// the path from n to t is less than or equal to the true cost of that path.
```

```
//
// If h is nil, AStar will use the g.HeuristicCost method if g implements HeuristicCoster,
// falling back to NullHeuristic otherwise. If the
 graph does not implement Weighted,
// UniformCost is used. AStar will panic if g has an A*-reachable negative edge weight.
func AStar(s, t graph.Node, g traverse.Graph, h Heuristic) (path Shortest, expanded int) {
 if g, ok := g.(graph.Graph); ok {
  if g.Node(s.ID()) == nil || g.Node(t.ID()) == nil {
   return Shortest{from: s}, 0
  }
 }
 var weight Weighting
 if wg, ok := g.(Weighted); ok {
  weight = wg.Weight
 } else {
  weight = UniformCost(g)
 }
 if h == nil {
  if g, ok := g.(HeuristicCoster); ok {
   h = g.HeuristicCost
  } else {
   h = NullHeuristic
  }
 }

 path = newShortestFrom(s, []graph.Node{s, t})
 tid := t.ID()

 visited := make(set.Int64s)
 open := &aStarQueue{indexOf: make(map[int64]int)}
 heap.Push(open, aStarNode{node: s, gscore: 0, fscore: h(s, t)})

 for open.Len() != 0 {
  u := heap.Pop(open).(aStarNode)
  uid := u.node.ID()
  i := path.indexOf[uid]
  expanded++

  if uid == tid {
   break
  }

  visited.Add(uid)
  for _, v := range graph.NodesOf(g.From(u.node.ID()))
 {
   vid := v.ID()
   if visited.Has(vid) {
    continue
```

```
   }
   j, ok := path.indexOf[vid]
   if !ok {
    j = path.add(v)
   }

   w, ok := weight(u.node.ID(), vid)
   if !ok {
    panic("path: A* unexpected invalid weight")
   }
   if w < 0 {
    panic("path: A* negative edge weight")
   }
   g := u.gscore + w
   if n, ok := open.node(vid); !ok {
    path.set(j, g, i)
    heap.Push(open, aStarNode{node: v, gscore: g, fscore: g + h(v, t)})
   } else if g < n.gscore {
    path.set(j, g, i)
    open.update(vid, g, g+h(v, t))
   }
  }
 }

 return path, expanded
}

// NullHeuristic is an admissible, consistent heuristic that will not speed up computation.
func NullHeuristic(_, _ graph.Node) float64 {
 return 0
}

// aStarNode adds A* accounting to a graph.Node.
type aStarNode struct {
 node   graph.Node
 gscore float64
 fscore float64
}

// aStarQueue is an A* priority queue.
type aStarQueue struct {
 indexOf map[int64]int
 nodes   []aStarNode
}

func (q *aStarQueue) Less(i, j int)
 bool {
 return q.nodes[i].fscore < q.nodes[j].fscore
```

```
}

func (q *aStarQueue) Swap(i, j int) {
 q.indexOf[q.nodes[i].node.ID()] = j
 q.indexOf[q.nodes[j].node.ID()] = i
 q.nodes[i], q.nodes[j] = q.nodes[j], q.nodes[i]
}

func (q *aStarQueue) Len() int {
 return len(q.nodes)
}

func (q *aStarQueue) Push(x interface{}) {
 n := x.(aStarNode)
 q.indexOf[n.node.ID()] = len(q.nodes)
 q.nodes = append(q.nodes, n)
}

func (q *aStarQueue) Pop() interface{} {
 n := q.nodes[len(q.nodes)-1]
 q.nodes = q.nodes[:len(q.nodes)-1]
 delete(q.indexOf, n.node.ID())
 return n
}

func (q *aStarQueue) update(id int64, g, f float64) {
 i, ok := q.indexOf[id]
 if !ok {
  return
 }
 q.nodes[i].gscore = g
 q.nodes[i].fscore = f
 heap.Fix(q, i)
}

func (q *aStarQueue) node(id int64) (aStarNode, bool) {
 loc, ok := q.indexOf[id]
 if ok {
  return q.nodes[loc], true
 }
 return aStarNode{}, false
}
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```

```
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package quat

func lift(v float64) Number {
 return Number{Real: v}
}

func split(q Number) (float64, Number) {
 return q.Real, Number{Imag: q.Imag, Jmag: q.Jmag, Kmag: q.Kmag}
}

func join(w float64, uv Number) Number {
 uv.Real = w
 return uv
}

func unit(q Number) Number {
 return Scale(1/Abs(q), q)
}
graph{{{{{{SubGrapN}}SubGrapN}}SubGrapT}}
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// Package dot implements GraphViz DOT marshaling and unmarshaling of graphs.
//
// See the GraphViz DOT Guide and the DOT grammar for more information
// on using specific aspects of the DOT language:
//
// DOT Guide: https://www.graphviz.org/pdf/dotguide.pdf
//
// DOT grammar: http://www.graphviz.org/doc/info/lang.html
//
// Attribute quoting
//
// Attributes and IDs are quoted if needed during marshalling, to conform with
// valid DOT syntax. Quoted IDs and attributes are unquoted during unmarshaling,
// so the data is kept in raw form. As an exception, quoted text with a leading
// `"<` and a trailing `>"` is not unquoted to ensure preservation of the string
// during a round-trip.
package dot // import "gonum.org/v1/gonum/graph/encoding/dot"
graph{{striN}{striN}striN{striN}}
graph{Subg_{Subg_{Subg_}}}
graph{{{{{{DI_}{DI_}{DI_}{DI_}}}}}}
graph{{diGra}{diGra}{diGra}diGra{{diGra}}{diGra}{}{diGra}{diGra}{diGra}}
// SPDX-License-Identifier: Unlicense OR MIT
```

```
package gpu

import (
 "image"
)

// packer packs a set of many smaller rectangles into
// much fewer larger atlases.
type packer struct {
 maxDim int
 spaces []image.Rectangle

 sizes []image.Point
 pos   image.Point
}

type placement struct {
 Idx int
 Pos image.Point
}

// add adds the given rectangle to the atlases and
// return the allocated position.
func (p *packer) add(s image.Point) (placement, bool) {
 if place, ok := p.tryAdd(s); ok {
  return place, true
 }
 p.newPage()
 return p.tryAdd(s)
}

func (p *packer) clear() {
 p.sizes = p.sizes[:0]
 p.spaces = p.spaces[:0]
}

func (p *packer) newPage() {
 p.pos = image.Point{}
 p.sizes = append(p.sizes, image.Point{})
 p.spaces = p.spaces[:0]
 p.spaces = append(p.spaces, image.Rectangle{
  Max: image.Point{X: p.maxDim, Y: p.maxDim},
 })
}

func (p *packer) tryAdd(s image.Point) (placement, bool) {
 // Go backwards to prioritize smaller spaces first.
 for i := len(p.spaces) - 1; i >= 0;
```

```
 i-- {
  space := p.spaces[i]
  rightSpace := space.Dx() - s.X
  bottomSpace := space.Dy() - s.Y
  if rightSpace >= 0 && bottomSpace >= 0 {
   // Remove space.
   p.spaces[i] = p.spaces[len(p.spaces)-1]
   p.spaces = p.spaces[:len(p.spaces)-1]
   // Put s in the top left corner and add the (at most)
   // two smaller spaces.
   pos := space.Min
   if bottomSpace > 0 {
    p.spaces = append(p.spaces, image.Rectangle{
     Min: image.Point{X: pos.X, Y: pos.Y + s.Y},
     Max: image.Point{X: space.Max.X, Y: space.Max.Y},
    })
   }
   if rightSpace > 0 {
    p.spaces = append(p.spaces, image.Rectangle{
     Min: image.Point{X: pos.X + s.X, Y: pos.Y},
     Max: image.Point{X: space.Max.X, Y: pos.Y + s.Y},
    })
   }
   idx := len(p.sizes) - 1
   size := &p.sizes[idx]
   if x := pos.X + s.X; x > size.X {
    size.X = x
   }
   if y := pos.Y + s.Y; y > size.Y {
    size.Y = y
   }
   return placement{Idx: idx, Pos: pos}, true
  }
 }
 return placement{}, false
}
graph{b5_tF3_mZ7_8QQ6_1Z9JF3SU}
graph{DiG}
graph{<"\}\\}\>}
graph{edg{edg{edg}ed{edg}edg}edg{edg}edg}
graph{{{{digh}{digg}digd{{digh}}}}}
graph{Subgrag{Subgrag{{Subgraf{{Subgraf}{{Subgraf}}}}{{}}}{{Subgraf}}}}
graph{{{_Q_E_Q_Z_N_D_Y_W_C_U}}{{_Q_E_Q_Z_N_D_Y_W_C_U}_J_P_T_T_J_I_V}{{}_J_P_T_T_J_I_V
}}
graph{N{N}}
graph{Str}
graph{{DIGRAPO{{{{DIGRAPO}}{}{}}DIGRAPO}}{DIGRAPO{{DIGRAPO{{DIGRAPO}DIGRAPO}{DIG
RAPO}{}}DIGRAPO}}{DIGRAPO{}{{}DIGRAPO}}}
```

Graph{{subgr_{{{{subgr_}subgr_}subgr_}subgr_}}subgr_}
graph{{DIGRAe}{DIGRAe}DIGRAe}
graph{Dig_}
graph{{{subgJ{{{{{subgJ{}subgO}}}}}}subgO}}
graph{i42{i9292}}
graph{{{ST}ST}{ST}ST}
graph{Stri{{Stri}{Stri}Stri}Stri}
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```
package gonum

import (
 "testing"

 "gonum.org/v1/gonum/blas/testblas"
)

func BenchmarkDgerSmSmInc1(b *testing.B) {
 testblas.DgerBenchmark(b, impl, Sm, Sm, 1, 1)
}

func BenchmarkDgerSmSmIncN(b *testing.B) {
 testblas.DgerBenchmark(b, impl, Sm, Sm, 2, 3)
}

func BenchmarkDgerMedMedInc1(b *testing.B) {
 testblas.DgerBenchmark(b, impl, Med, Med, 1, 1)
}

func BenchmarkDgerMedMedIncN(b *testing.B) {
 testblas.DgerBenchmark(b, impl, Med, Med, 2, 3)
}

func BenchmarkDgerLgLgInc1(b *testing.B) {
 testblas.DgerBenchmark(b, impl, Lg, Lg, 1, 1)
}

func BenchmarkDgerLgLgIncN(b *testing.B) {
 testblas.DgerBenchmark(b, impl, Lg, Lg, 2, 3)
}

func BenchmarkDgerLgSmInc1(b *testing.B) {
 testblas.DgerBenchmark(b, impl, Lg, Sm, 1, 1)
}

func BenchmarkDgerLgSmIncN(b *testing.B) {
```

```
 testblas.DgerBenchmark(b, impl, Lg, Sm, 2, 3)
}

func BenchmarkDgerSmLgInc1(b
 *testing.B) {
 testblas.DgerBenchmark(b, impl, Sm, Lg, 1, 1)
}

func BenchmarkDgerSmLgIncN(b *testing.B) {
 testblas.DgerBenchmark(b, impl, Sm, Lg, 2, 3)
}
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// Derived from code by Jeffrey A. Fike at http://adl.stanford.edu/hyperdual/

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package dualquat

import (
 "math"

 "gonum.org/v1/gonum/num/quat"
)
```

```
// PowReal returns d**p, the base-d exponential of p.
//
// Special cases are (in order):
// PowReal(NaN+x, 0) = 1+NaN for any x
// PowReal(x, 0) = 1 for any x
// PowReal(1+x, y) = 1+xy for any y
// PowReal(x, 1) = x for any x
// PowReal(NaN+x, y) = NaN+NaN
// PowReal(x, NaN) = NaN+NaN
// PowReal(0, y) = Inf for y an odd integer < 0
// PowReal(0, -Inf) = +Inf
// PowReal(0, +Inf) = +0
// PowReal(0, y) = +Inf for finite y < 0 and not an odd integer
// PowReal(0, y) = 0 for y an odd integer > 0
// PowReal(0, y) = +0 for finite y > 0 and not an
 odd integer
// PowReal(-1, Inf) = 1
// PowReal(x+0, +Inf) = +Inf+NaN for |x| > 1
// PowReal(x+y, +Inf) = +Inf for |x| > 1
// PowReal(x, -Inf) = +0+NaN for |x| > 1
// PowReal(x, +Inf) = +0+NaN for |x| < 1
// PowReal(x+0, -Inf) = +Inf+NaN for |x| < 1
// PowReal(x, -Inf) = +Inf-Inf for |x| < 1
// PowReal(+Inf, y) = +Inf for y > 0
// PowReal(+Inf, y) = +0 for y < 0
// PowReal(-Inf, y) = Pow(-0, -y)
func PowReal(d Number, p float64) Number {
 switch {
 case p == 0:
  switch {
  case quat.IsNaN(d.Real):
   return Number{Real: quat.Number{Real: 1}, Dual: quat.NaN()}
  case d.Real == zeroQuat, quat.IsInf(d.Real):
   return Number{Real: quat.Number{Real: 1}}
  }
 case p == 1:
  return d
 case math.IsInf(p, 1):
  if Abs(d).Real > 1 {
   if d.Dual == zeroQuat {
    return Number{Real: quat.Inf(), Dual: quat.NaN()}
   }
   return Number{Real: quat.Inf(), Dual: quat.Inf()}
  }
  return Number{Real: zeroQuat, Dual: quat.NaN()}
 case math.IsInf(p, -1):
  if Abs(d).Real > 1 {
   return Number{Real: zeroQuat,
```

```
 Dual: quat.NaN()}
  }
  if d.Dual == zeroQuat {
   return Number{Real: quat.Inf(), Dual: quat.NaN()}
  }
  return Number{Real: quat.Inf(), Dual: quat.Inf()}
 }
 deriv := quat.Mul(quat.Number{Real: p}, quat.Pow(d.Real, quat.Number{Real: p - 1}))
 return Number{
  Real: quat.Pow(d.Real, quat.Number{Real: p}),
  Dual: quat.Mul(d.Dual, deriv),
 }
}

// Pow return d**p, the base-d exponential of p.
func Pow(d, p Number) Number {
 return Exp(Mul(p, Log(d)))
}

// Sqrt returns the square root of d
//
// Special cases are:
// Sqrt(+Inf) = +Inf
// Sqrt(0) = (0+Inf)
// Sqrt(x < 0) = NaN
// Sqrt(NaN) = NaN
func Sqrt(d Number) Number {
 return PowReal(d, 0.5)
}

// Exp returns e**d, the base-e exponential of d.
//
// Special cases are:
// Exp(+Inf) = +Inf
// Exp(NaN) = NaN
// Very large values overflow to 0 or +Inf.
// Very small values underflow to 1.
func Exp(d Number) Number {
 fnDeriv := quat.Exp(d.Real)
 return Number{
  Real: fnDeriv,
  Dual: quat.Mul(fnDeriv, d.Dual),
 }
}

// Log returns
 the natural logarithm of d.
//
```

```
// Special cases are:
// Log(+Inf) = (+Inf+0)
// Log(0) = (-InfInf)
// Log(x < 0) = NaN
// Log(NaN) = NaN
func Log(d Number) Number {
 switch {
 case d.Real == zeroQuat:
  return Number{
   Real: quat.Log(d.Real),
   Dual: quat.Inf(),
  }
 case quat.IsInf(d.Real):
  return Number{
   Real: quat.Log(d.Real),
   Dual: zeroQuat,
  }
 }
 return Number{
  Real: quat.Log(d.Real),
  Dual: quat.Mul(d.Dual, quat.Inv(d.Real)),
 }
}
graph{SUBGRAP0{{SUBGRAP0{SUBGRAP0}{SUBGRAP0}{SUBGRAP0}}}}
graph{{{{{{{digraa}digrag}}}}digrag}}}
graph{subd{{subd{suba}}suba}}
graph{NU{{NU}NU}{NU{{NU}NU}}}
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package testblas

import (
 "fmt"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
)

type Ztrsmer interface {
 Ztrsm(side blas.Side, uplo blas.Uplo, transA blas.Transpose, diag blas.Diag, m, n int, alpha complex128, a
[]complex128, lda int, b []complex128, ldb int)
}

func ZtrsmTest(t *testing.T, impl Ztrsmer) {
```

```
 for _, side := range []blas.Side{blas.Left, blas.Right} {
  for _, uplo := range []blas.Uplo{blas.Lower, blas.Upper} {
   for _, trans := range []blas.Transpose{blas.NoTrans, blas.Trans, blas.ConjTrans} {
    for _, diag := range []blas.Diag{blas.Unit, blas.NonUnit} {
     name := sideString(side) + "-" + uploString(uplo) + "-" + transString(trans) + "-" + diagString(diag)
     t.Run(name, func(t *testing.T) {
      for _, m := range []int{0, 1, 2, 3, 4, 5} {
       for _, n := range []int{0, 1, 2, 3,
 4, 5} {
        ztrsmTest(t, impl, side, uplo, trans, diag, m, n)
       }
      }
     })
    }
   }
  }
 }
}

func ztrsmTest(t *testing.T, impl Ztrsmer, side blas.Side, uplo blas.Uplo, trans blas.Transpose, diag blas.Diag, m, n
int) {
 const tol = 1e-13

 rnd := rand.New(rand.NewSource(1))

 nA := m
 if side == blas.Right {
  nA = n
 }
 for _, lda := range []int{max(1, nA), nA + 2} {
  for _, ldb := range []int{max(1, n), n + 3} {
   for _, alpha := range []complex128{0, 1, complex(0.7, -0.9)} {
    // Allocate the matrix A and fill it with random numbers.
    a := make([]complex128, nA*lda)
    for i := range a {
     a[i] = rndComplex128(rnd)
    }
    // Set some elements of A to 0 and 1 to cover special cases in Ztrsm.
    if nA > 2 {
     if uplo == blas.Upper {
      a[nA-2] = 1
      a[nA-1] = 0
     } else {
      a[(nA-2)*lda] = 1
      a[(nA-1)*lda] = 0
     }
    }
    // Create a copy of A for checking that Ztrsm
```

```
   // does not modify its triangle opposite to uplo.
   aCopy
:= make([]complex128, len(a))
   copy(aCopy, a)
   // Create a dense representation of A for
   // computing the right-hand side matrix using zmm.
   aTri := make([]complex128, len(a))
   copy(aTri, a)
   if uplo == blas.Upper {
    for i := 0; i < nA; i++ {
     // Zero out the lower triangle.
     for j := 0; j < i; j++ {
      aTri[i*lda+j] = 0
     }
     if diag == blas.Unit {
      aTri[i*lda+i] = 1
     }
    }
   } else {
    for i := 0; i < nA; i++ {
     if diag == blas.Unit {
      aTri[i*lda+i] = 1
     }
     // Zero out the upper triangle.
     for j := i + 1; j < nA; j++ {
      aTri[i*lda+j] = 0
     }
    }
   }

   // Allocate the right-hand side matrix B and fill it with random numbers.
   b := make([]complex128, m*ldb)
   for i := range b {
    b[i] = rndComplex128(rnd)
   }
   // Set some elements of B to 0 to cover special cases in Ztrsm.
   if m > 1 && n > 1 {
    b[0] = 0
    b[(m-1)*ldb+n-1] = 0
   }
   bCopy := make([]complex128,
len(b))
   copy(bCopy, b)

   // Compute the solution matrix X using Ztrsm.
   // X is overwritten on B.
   impl.Ztrsm(side, uplo, trans, diag, m, n, alpha, a, lda, b, ldb)
   x := b
```

```
    prefix := fmt.Sprintf("m=%v,n=%v,lda=%v,ldb=%v,alpha=%v", m, n, lda, ldb, alpha)

    if !zsame(a, aCopy) {
     t.Errorf("%v: unexpected modification of A", prefix)
     continue
    }

    // Compute the left-hand side matrix of op(A)*X=alpha*B or X*op(A)=alpha*B
    // using an internal Zgemm implementation.
    var lhs []complex128
    if side == blas.Left {
     lhs = zmm(trans, blas.NoTrans, m, n, m, 1, aTri, lda, x, ldb, 0, b, ldb)
    } else {
     lhs = zmm(blas.NoTrans, trans, m, n, n, 1, x, ldb, aTri, lda, 0, b, ldb)
    }

    // Compute the right-hand side matrix alpha*B.
    rhs := bCopy
    for i := 0; i < m; i++ {
     for j := 0; j < n; j++ {
      rhs[i*ldb+j] *= alpha
     }
    }

    if !zEqualApprox(lhs, rhs, tol) {
     t.Errorf("%v: unexpected result", prefix)
    }
   }
  }
 }
}
graph{{DIGRAPc{{DIGRAPy}}}}
graph{{s_}{s_{{{s_}{s_}}}}}
/**/digraph{}
graph{dih{dii}}
digraph {nodep.5[e=d,h=.1,t=.1]node0[l="<f |f |f |f |f |f |f | ",t=0][h=5]node1[l="{n n |  |p }"]node2[l="{n a  |  |p
}"]node3[l="{n i  |  |p }"]node4[l="{n e  |  |p }"]node5[l="{n t |  |p }"]node6[l="{n o |  |p }"]node7[l="{n s |  |p
}"]node0:f0->node1:n node0:f1->node2:n node0:f2->node3:n node0:f5->node4:n node0:f6->node5:n node2->node6:n
node4->node7:n}
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package integrate

import "sort"
```

```
// Simpsons returns an approximate value of the integral
//  \int_a^b f(x)dx
// computed using the Simpsons's method. The function f is given as a slice of
// samples evaluated at locations in x, that is,
//  f[i] = f(x[i]), x[0] = a, x[len(x)-1] = b
// The slice x must be sorted in strictly increasing order. x and f must be of
// equal length and the length must be at least 3.
//
// See https://en.wikipedia.org/wiki/Simpson%27s_rule#Composite_Simpson's_rule_for_irregularly_spaced_data
// for more information.
func Simpsons(x, f []float64) float64 {
 n := len(x)
 switch {
 case len(f) != n:
  panic("integrate: slice length mismatch")
 case n < 3:
  panic("integrate: input data too small")
 case !sort.Float64sAreSorted(x):
  panic("integrate: must be sorted")
 }

 // Simpson's method approximates
 the integral of a function f by subdividing
 // the interval of integration into segments and applying a method that fits
 // a polynomial to each subinterval.
 //
 // This implementation makes use of the following composite Simpson's method
 // to estimate \int_a^b f(x) dx where a, b are x at x[0] and x[len(x)-1]
 // respectively:
 //  \sum_{i=1}^{N} {a_0}_i * f_{i-1} + {a_1}_i * f_{i} + {a_2}_i * f_{i+1}
 // where N is the count of subintervals and {a_0}_i, {a_1}_i, and {a_2}_i
 // are constants at index i given by:
 //  {a_0}_i = 2 * h^3_i - h^3_{i+1} + 3 * h_{i+1} * h^2_i / 6 * h_i * (h_i + h_{i+1})
 //  {a_1}_i = h^3_i + h^3_{i+1} + 3 * h_i * h_{i+1} * (h_i + h_{i+1}) / 6 * h_i * h_{i+1}
 //  {a_2}_i = -h^3_i + 2 * h^3_{i+1} + 3 * h_i * h^2_{i+1} / 6 * h_{i+1} * (h_i + h_{i+1})
 // where h_k is the difference x[k] - x[k-1].
 //
 // The formula above approximates the integral of f when N is even. If the
 // number of subintervals is odd, the subintervals i=0,...,n-2 are given by
 //
 the above formula and the approximation over the remaining subintervals
 // is given by:
 //  {a_0}_i * f_{N-2} + {a_1}_i * f_{N-1} + {a_2}_i * f_N
 // where the coefficients are:
 //  {a_0}_i = -1 * h^3_{N-1} / 6 * h_{N-2} * (h_{N-2} + h_{N-1})
 //  {a_1}_i = h^2_{N-1} + 3 * h^3_{N-1} * h_{N-2} / 6 * h_{N-2}
 //  {a_2}_i = 2 * h^2_{N-1} + 3 * h^2_{N-1} * h_{N-2} / 6 * (h_{N-2} + h_{N-1})
```

```
 var integral float64
 for i := 1; i < n-1; i += 2 {
  h0 := x[i] - x[i-1]
  h1 := x[i+1] - x[i]
  if h0 == 0 || h1 == 0 {
   panic("integrate: repeated abscissa")
  }
  h0p2 := h0 * h0
  h0p3 := h0 * h0 * h0
  h1p2 := h1 * h1
  h1p3 := h1 * h1 * h1
  hph := h0 + h1
  a0 := (2*h0p3 - h1p3 + 3*h1*h0p2) / (6 * h0 * hph)
  a1 := (h0p3 + h1p3 + 3*h0*h1*hph) / (6 * h0 * h1)
  a2 := (-h0p3 + 2*h1p3 + 3*h0*h1p2) / (6 * h1 * hph)
  integral += a0 * f[i-1]
  integral += a1 * f[i]
  integral += a2 * f[i+1]
 }

 if n%2 == 0 {
  h0 := x[n-2] - x[n-3]
  h1 := x[n-1] - x[n-2]
  if h0 == 0 || h1 == 0 {
   panic("integrate:
 repeated abscissa")
  }
  h1p2 := h1 * h1
  h1p3 := h1 * h1 * h1
  hph := h0 + h1
  a0 := -1 * h1p3 / (6 * h0 * hph)
  a1 := (h1p2 + 3*h0*h1) / (6 * h0)
  a2 := (2*h1p2 + 3*h0*h1) / (6 * hph)
  integral += a0 * f[n-3]
  integral += a1 * f[n-2]
  integral += a2 * f[n-1]
 }

 return integral
}
graph{Subgrag{Subgrag{{Subgraf}}{{Subgraf}}}}
graph{{noU}noO}
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// license that can be found in the LICENSE file.

package testlapack
```

```
import (
 "math"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
 "gonum.org/v1/gonum/floats"
 "gonum.org/v1/gonum/lapack"
)

type Dlasrer interface {
 Dlasr(side blas.Side, pivot lapack.Pivot, direct lapack.Direct, m, n int, c, s, a []float64, lda int)
}

func DlasrTest(t *testing.T, impl Dlasrer) {
 rnd := rand.New(rand.NewSource(1))
 for _, side := range []blas.Side{blas.Left, blas.Right} {
  for _, pivot := range []lapack.Pivot{lapack.Variable, lapack.Top, lapack.Bottom} {
   for _, direct := range []lapack.Direct{lapack.Forward, lapack.Backward} {
    for _, test := range []struct {
     m, n, lda int
    }{
     {5, 5, 0},
     {5, 10, 0},
     {10, 5, 0},

     {5, 5, 20},
     {5, 10, 20},
     {10, 5, 20},
    } {
     m := test.m
     n := test.n
     lda
 := test.lda
     if lda == 0 {
      lda = n
     }
     // Allocate nn matrix A and fill it with random numbers.
     a := make([]float64, m*lda)
     for i := range a {
      a[i] = rnd.Float64()
     }

     // Allocate slices for implicitly
     // represented rotation matrices.
     var s, c []float64
```

```
    if side == blas.Left {
     s = make([]float64, m-1)
     c = make([]float64, m-1)
    } else {
     s = make([]float64, n-1)
     c = make([]float64, n-1)
    }
    for k := range s {
     // Generate a random number in [0,2*pi).
     theta := rnd.Float64() * 2 * math.Pi
     s[k] = math.Sin(theta)
     c[k] = math.Cos(theta)
    }
    aCopy := make([]float64, len(a))
    copy(a, aCopy)

    // Apply plane a sequence of plane
    // rotation in s and c to the matrix A.
    impl.Dlasr(side, pivot, direct, m, n, c, s, a, lda)

    // Compute a reference solution by multiplying A
    // by explicitly formed rotation matrix P.
    pSize := m
    if side
== blas.Right {
     pSize = n
    }
    // Allocate matrix P.
    p := blas64.General{
     Rows:   pSize,
     Cols:   pSize,
     Stride: pSize,
     Data:   make([]float64, pSize*pSize),
    }
    // Allocate matrix P_k.
    pk := blas64.General{
     Rows:   pSize,
     Cols:   pSize,
     Stride: pSize,
     Data:   make([]float64, pSize*pSize),
    }
    ptmp := blas64.General{
     Rows:   pSize,
     Cols:   pSize,
     Stride: pSize,
     Data:   make([]float64, pSize*pSize),
    }
    // Initialize P to the identity matrix.
```

```
    for i := 0; i < pSize; i++ {
     p.Data[i*p.Stride+i] = 1
     ptmp.Data[i*p.Stride+i] = 1
    }
    // Iterate over the sequence of plane rotations.
    for k := range s {
     // Set P_k to the identity matrix.
     for i := range p.Data {
      pk.Data[i] = 0
     }
     for i := 0; i < pSize; i++ {
      pk.Data[i*p.Stride+i] = 1
     }
     // Set the corresponding elements of P_k.
     switch pivot {
     case
lapack.Variable:
      pk.Data[k*p.Stride+k] = c[k]
      pk.Data[k*p.Stride+k+1] = s[k]
      pk.Data[(k+1)*p.Stride+k] = -s[k]
      pk.Data[(k+1)*p.Stride+k+1] = c[k]
     case lapack.Top:
      pk.Data[0] = c[k]
      pk.Data[k+1] = s[k]
      pk.Data[(k+1)*p.Stride] = -s[k]
      pk.Data[(k+1)*p.Stride+k+1] = c[k]
     case lapack.Bottom:
      pk.Data[(pSize-1-k)*p.Stride+pSize-k-1] = c[k]
      pk.Data[(pSize-1-k)*p.Stride+pSize-1] = s[k]
      pk.Data[(pSize-1)*p.Stride+pSize-1-k] = -s[k]
      pk.Data[(pSize-1)*p.Stride+pSize-1] = c[k]
     }
     // Compute P <- P_k * P or P <- P * P_k.
     if direct == lapack.Forward {
      blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, pk, ptmp, 0, p)
     } else {
      blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, ptmp, pk, 0, p)
     }
     copy(ptmp.Data, p.Data)
    }

    aMat := blas64.General{
     Rows:   m,
     Cols:   n,
     Stride: lda,
     Data:   make([]float64, m*lda),
    }
    copy(a, aCopy)
```

```
    newA
 := blas64.General{
     Rows:   m,
     Cols:   n,
     Stride: lda,
     Data:   make([]float64, m*lda),
    }
    // Compute P * A or A * P.
    if side == blas.Left {
     blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, p, aMat, 0, newA)
    } else {
     blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, aMat, p, 0, newA)
    }
    // Compare the result from Dlasr with the reference solution.
    if !floats.EqualApprox(newA.Data, a, 1e-12) {
     t.Errorf("A update mismatch")
    }
   }
  }
 }
}
graph{"\\\\\\\\\\\\\\\\\\\\\\\\"}
graph{dS{dG}}
graph{{{g}{g}g}}
graph{DiGraphd{DiGraphg}{DiGraphg}}
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// license that can be found in the LICENSE file.

package distuv

import (
 "math"
 "sort"
 "testing"

 "golang.org/x/exp/rand"
)

func TestExponentialProb(t *testing.T) {
 pts := []univariateProbPoint{
  {
   loc:     0,
   prob:    1,
   cumProb: 0,
   logProb: 0,
  },
```

```
  {
   loc:     -1,
   prob:    0,
   cumProb: 0,
   logProb: math.Inf(-1),
  },
  {
   loc:     1,
   prob:    1 / (math.E),
   cumProb:
0.6321205588285576784044762298385391325541888689682321654921631983025385042551001966428527256540803563,
   logProb: -1,
  },
  {
   loc:     20,
   prob:    math.Exp(-20),
   cumProb:
0.9999999979388463775614421720340596198441790236241927244008963070277553383708359762154406467200089072,
   logProb: -20,
  },
 }
 testDistributionProbs(t, Exponential{Rate: 1}, "Exponential", pts)
}

func TestExponentialFitPrior(t *testing.T) {
 testConjugateUpdate(t, func() ConjugateUpdater {
 return &Exponential{Rate: 13.7} })
}

func TestExponential(t *testing.T) {
 src := rand.New(rand.NewSource(1))
 for i, dist := range []Exponential{
  {Rate: 3, Src: src},
  {Rate: 1.5, Src: src},
  {Rate: 0.9, Src: src},
 } {
  testExponential(t, dist, i)
 }
}

func testExponential(t *testing.T, dist Exponential, i int) {
 const (
  tol  = 1e-2
  n    = 3e6
  bins = 50
 )
```

```
 x := make([]float64, n)
 generateSamples(x, dist)
 sort.Float64s(x)

 checkMean(t, i, x, dist, tol)
 checkVarAndStd(t, i, x, dist, tol)
 checkEntropy(t, i, x, dist, tol)
 checkExKurtosis(t, i, x, dist, tol)
 checkSkewness(t, i, x, dist, tol)
 checkMedian(t, i, x, dist, tol)
 checkQuantileCDFSurvival(t, i, x, dist, tol)
 checkProbContinuous(t, i, x, dist, 1e-10)
 checkProbQuantContinuous(t, i, x, dist, tol)
}

func TestExponentialScore(t *testing.T) {
 for _, test := range []*Exponential{
  {
   Rate: 1,
  },
  {
   Rate: 0.35,
  },
  {
   Rate: 4.6,
  },
 } {
  testDerivParam(t, test)
 }
}

func TestExponentialFitPanic(t
 *testing.T) {
 e := Exponential{Rate: 2}
 defer func() {
  r := recover()
  if r != nil {
   t.Errorf("unexpected panic for Fit call: %v", r)
  }
 }()
 e.Fit(make([]float64, 10), nil)
}
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package gonum
```

```
import (
 "testing"

 "gonum.org/v1/gonum/blas/testblas"
)

var impl Implementation

func TestDasum(t *testing.T) {
 testblas.DasumTest(t, impl)
}

func TestDaxpy(t *testing.T) {
 testblas.DaxpyTest(t, impl)
}

func TestDdot(t *testing.T) {
 testblas.DdotTest(t, impl)
}

func TestDnrm2(t *testing.T) {
 testblas.Dnrm2Test(t, impl)
}

func TestIdamax(t *testing.T) {
 testblas.IdamaxTest(t, impl)
}

func TestDswap(t *testing.T) {
 testblas.DswapTest(t, impl)
}

func TestDcopy(t *testing.T) {
 testblas.DcopyTest(t, impl)
}

func TestDrotg(t *testing.T) {
 testblas.DrotgTest(t, impl)
}

func TestDrotmg(t *testing.T) {
 testblas.DrotmgTest(t, impl)
}

func TestDrot(t *testing.T) {
 testblas.DrotTest(t, impl)
}
```

```
func TestDrotm(t *testing.T) {
 testblas.DrotmTest(t, impl)
}

func TestDscal(t *testing.T) {
 testblas.DscalTest(t,
 impl)
}
graph{{{{__________{__________}}___{_________{___________________}}__{_____________}}__{__________
}}}
graph{SubGrag}
graph{{DIGRAPc{{DIGRAPy}{DIGRAPy}}}}
graph{{{Digw{Digz}}}}
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graph{{{Digp{Digp}}Digg}}
graph{{{{DiGu}{DiGu}DiGv}}}
graph{{g}}
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//go:generate ./single_precision.bash

package gonum

import (
 "math"

 "gonum.org/v1/gonum/internal/math32"
)

type Implementation struct{}

// [SD]gemm behavior constants. These are kept here to keep them out of the
// way during single precision code genration.
const (
 blockSize   = 64 // b x b matrix
 minParBlock = 4  // minimum number of blocks needed to go parallel
 buffMul     = 4  // how big is the buffer relative to the number of workers
)

// subMul is a common type shared by [SD]gemm.
type subMul struct {
 i, j int // index of block
}

func max(a, b int) int {
 if a > b {
```

```
  return a
 }
 return b
}

func min(a, b int) int {
 if a > b {
  return b
 }
 return a
}

// blocks returns the number of divisions of the dimension length with the given
// block size.
func blocks(dim, bsize int) int {
 return (dim + bsize - 1)
 / bsize
}

// dcabs1 returns |real(z)|+|imag(z)|.
func dcabs1(z complex128) float64 {
 return math.Abs(real(z)) + math.Abs(imag(z))
}

// scabs1 returns |real(z)|+|imag(z)|.
func scabs1(z complex64) float32 {
 return math32.Abs(real(z)) + math32.Abs(imag(z))
}
graph{subgre}
graph{{{grax{}grar}}}
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package graphql

import (
 "bytes"
 "encoding/json"
 "errors"
 "fmt"

 "gonum.org/v1/gonum/graph"
 "gonum.org/v1/gonum/graph/encoding"
)

// Unmarshal parses the JSON-encoded data and stores the result in dst.
// Node IDs are obtained from the JSON fields identified by the uid parameter.
```

```
// UIDs obtained from the JSON encoding must map to unique node ID values
// consistently across the JSON-encoded spanning tree.
func Unmarshal(data []byte, uid string, dst encoding.Builder) error {
 if uid == "" {
  return errors.New("graphql: invalid UID field name")
 }
 var src json.RawMessage
 err := json.Unmarshal(data, &src)
 if err != nil {
  return err
 }
 gen := generator{dst: dst, uidName: uid, nodes: make(map[string]graph.Node)}
 return gen.walk(src, nil, "")
}

// StringIDSetter is a graph node that can set its ID based on the given
 uid string.
type StringIDSetter interface {
 SetIDFromString(uid string) error
}

// LabelSetter is a graph edge that can set its label.
type LabelSetter interface {
 SetLabel(string)
}

type generator struct {
 dst encoding.Builder

 // uidName is the name of the UID field in the source JSON.
 uidName string
 // nodes maps from GraphQL UID string to graph.Node.
 nodes map[string]graph.Node
}

func (g *generator) walk(src json.RawMessage, node graph.Node, attr string) error {
 switch src[0] {
 case '{':
  var val map[string]json.RawMessage
  err := json.Unmarshal(src, &val)
  if err != nil {
   return err
  }
  if next, ok := val[g.uidName]; !ok {
   if node != nil {
    var buf bytes.Buffer
    err := json.Compact(&buf, src)
    if err != nil {
```

```
    panic(err)
   }
   return fmt.Errorf("graphql: no UID for node: `%s`", &buf)
  }
 } else {
  var v interface{}
  err = json.Unmarshal(next, &v)
  if err != nil {
   return err
  }
  value := fmt.Sprint(v)
  child, ok := g.nodes[value]
  if
!ok {
   child = g.dst.NewNode()
   s, ok := child.(StringIDSetter)
   if !ok {
    return errors.New("graphql: cannot set UID")
   }
   err = s.SetIDFromString(value)
   if err != nil {
    return err
   }
   g.nodes[value] = child
   g.dst.AddNode(child)
  }
  if node != nil {
   e := g.dst.NewEdge(node, child)
   if s, ok := e.(LabelSetter); ok {
    s.SetLabel(attr)
   }
   g.dst.SetEdge(e)
  }
  node = child
 }
 for attr, src := range val {
  if attr == g.uidName {
   continue
  }
  err = g.walk(src, node, attr)
  if err != nil {
   return err
  }
 }

case '[':
 var val []json.RawMessage
 err := json.Unmarshal(src, &val)
```

```
 if err != nil {
  return err
 }
 for _, src := range val {
  err = g.walk(src, node, attr)
  if err != nil {
   return err
  }
 }

default:
 var v interface{}
 err := json.Unmarshal(src, &v)
 if err != nil {
  return err
 }
 if attr == g.uidName {
  value := fmt.Sprint(v)
  if s, ok := node.(StringIDSetter);
ok {
   if _, ok := g.nodes[value]; !ok {
    err = s.SetIDFromString(value)
    if err != nil {
     return err
    }
    g.nodes[value] = node
   }
  } else {
   return errors.New("graphql: cannot set ID")
  }
 } else if s, ok := node.(encoding.AttributeSetter); ok {
  var value string
  if _, ok := v.(float64); ok {
   value = string(src)
  } else {
   value = fmt.Sprint(v)
  }
  err = s.SetAttribute(encoding.Attribute{Key: attr, Value: value})
  if err != nil {
   return err
  }
 }
}

return nil
}
digraph{no_->no_}
```

```
graph{{subGs{{subGz}}subGs{{{{subGz}}subGz}}subGs}}
graph{N{{N{N}}N}}
graph{nodb nodb}
graph{{DIGRAPA}{DIGRAPA}}
graph{{{digu}}digz}
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package gonum

import "gonum.org/v1/gonum/blas"

// Dlaset sets the off-diagonal elements of A to alpha, and the diagonal
// elements to beta. If uplo == blas.Upper, only the elements in the upper
// triangular part are set. If uplo == blas.Lower, only the elements in the
// lower triangular part are set. If uplo is otherwise, all of the elements of A
// are set.
//
// Dlaset is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dlaset(uplo blas.Uplo, m, n int, alpha, beta float64, a []float64, lda int) {
 switch {
 case m < 0:
  panic(mLT0)
 case n < 0:
  panic(nLT0)
 case lda < max(1, n):
  panic(badLdA)
 }

 minmn := min(m, n)
 if minmn == 0 {
  return
 }

 if len(a) < (m-1)*lda+n {
  panic(shortA)
 }

 if uplo == blas.Upper {
  for i := 0; i < m; i++ {
   for j := i + 1; j < n; j++ {
    a[i*lda+j]
= alpha
   }
  }
 } else if uplo == blas.Lower {
  for i := 0; i < m; i++ {
```

```
   for j := 0; j < min(i+1, n); j++ {
    a[i*lda+j] = alpha
   }
  }
 } else {
  for i := 0; i < m; i++ {
   for j := 0; j < n; j++ {
    a[i*lda+j] = alpha
   }
  }
 }
 for i := 0; i < minmn; i++ {
  a[i*lda+i] = beta
 }
}
graph{{EDX}EDI}
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package c64

import (
 "fmt"
 "testing"
)

var benchSink complex64

func BenchmarkDotUnitary(t *testing.B) {
 for _, tst := range []struct {
  name string
  f    func(x, y []complex64) complex64
 }{
  {"DotcUnitary", DotcUnitary},
  {"DotuUnitary", DotuUnitary},
 } {
  for _, v := range []int64{1, 2, 3, 4, 5, 10, 100, 1e3, 5e3, 1e4, 5e4} {
   t.Run(fmt.Sprintf("%s-%d", tst.name, v), func(b *testing.B) {
    x, y := x[:v], y[:v]
    b.SetBytes(128 * v)
    for i := 0; i < b.N; i++ {
     benchSink = tst.f(x, y)
    }
   })
  }
 }
}
```

```
func BenchmarkDotInc(t *testing.B) {
 for _, tst := range []struct {
  name string
  f    func(x, y []complex64, n, incX, incY, ix, iy uintptr) complex64
 }{
  {"DotcInc", DotcInc},
  {"DotuInc", DotuInc},
 } {
  for _, ln := range []int{1, 2, 3, 4, 5, 10, 100, 1e3, 5e3, 1e4, 5e4} {
   for _, inc :=
 range []int{1, 2, 4, 10, -1, -2, -4, -10} {
    t.Run(fmt.Sprintf("%s-%d-inc%d", tst.name, ln, inc), func(b *testing.B) {
     b.SetBytes(int64(128 * ln))
     var idx int
     if inc < 0 {
      idx = (-ln + 1) * inc
     }
     for i := 0; i < b.N; i++ {
      benchSink = tst.f(x, y, uintptr(ln), uintptr(inc), uintptr(inc), uintptr(idx), uintptr(idx))
     }
    })
   }
  }
 }
}
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// license that can be found in the LICENSE file.

package testblas

import (
 "fmt"
 "testing"

 "golang.org/x/exp/rand"
 "gonum.org/v1/gonum/blas"
)

type Ztbmver interface {
 Ztbmv(uplo blas.Uplo, trans blas.Transpose, diag blas.Diag, n, k int, ab []complex128, ldab int, x []complex128,
incX int)

 Ztrmver
}

func ZtbmvTest(t *testing.T, impl Ztbmver) {
```

```
 rnd := rand.New(rand.NewSource(1))
 for _, uplo := range []blas.Uplo{blas.Upper, blas.Lower} {
  for _, trans := range []blas.Transpose{blas.NoTrans, blas.Trans, blas.ConjTrans} {
   for _, diag := range []blas.Diag{blas.NonUnit, blas.Unit} {
    for _, n := range []int{1, 2, 3, 5} {
     for k := 0; k < n; k++ {
      for _, ldab := range []int{k + 1, k + 1 + 10} {
       for _, incX := range []int{-4, 1, 5} {
        testZtbmv(t, impl, rnd, uplo, trans, diag, n, k, ldab, incX)
       }
      }
     }
    }
   }
  }
 }
}

//
 testZtbmv tests Ztbmv by comparing its output to that of Ztrmv.
func testZtbmv(t *testing.T, impl Ztbmver, rnd *rand.Rand, uplo blas.Uplo, trans blas.Transpose, diag blas.Diag, n,
k, ldab, incX int) {
 const tol = 1e-13

 // Allocate a dense-storage triangular band matrix filled with NaNs that
 // will be used as the reference matrix for Ztrmv.
 lda := max(1, n)
 a := makeZGeneral(nil, n, n, lda)
 // Fill the referenced triangle with random data within the band and
 // with zeros outside.
 if uplo == blas.Upper {
  for i := 0; i < n; i++ {
   for j := i; j < min(n, i+k+1); j++ {
    re := rnd.NormFloat64()
    im := rnd.NormFloat64()
    a[i*lda+j] = complex(re, im)
   }
   for j := i + k + 1; j < n; j++ {
    a[i*lda+j] = 0
   }
  }
 } else {
  for i := 0; i < n; i++ {
   for j := 0; j < i-k; j++ {
    a[i*lda+j] = 0
   }
   for j := max(0, i-k); j <= i; j++ {
    re := rnd.NormFloat64()
```

```
   im := rnd.NormFloat64()
   a[i*lda+j] = complex(re, im)
  }
 }
}
if diag == blas.Unit
{
 // The diagonal should not be referenced by Ztbmv and Ztrmv, so
 // invalidate it with NaNs.
 for i := 0; i < n; i++ {
  a[i*lda+i] = znan
 }
}
// Create the triangular band matrix.
ab := zPackTriBand(k, ldab, uplo, n, a, lda)
abCopy := make([]complex128, len(ab))
copy(abCopy, ab)

// Generate a random complex vector x.
xtest := make([]complex128, n)
for i := range xtest {
 re := rnd.NormFloat64()
 im := rnd.NormFloat64()
 xtest[i] = complex(re, im)
}
x := makeZVector(xtest, incX)
xCopy := make([]complex128, len(x))
copy(xCopy, x)

want := make([]complex128, len(x))
copy(want, x)

// Compute the reference result of op(A)*x, storing it into want.
impl.Ztrmv(uplo, trans, diag, n, a, lda, want, incX)
// Compute op(A)*x, storing the result in-place into x.
impl.Ztbmv(uplo, trans, diag, n, k, ab, ldab, x, incX)

name := fmt.Sprintf("uplo=%v,trans=%v,diag=%v,n=%v,k=%v,ldab=%v,incX=%v", uplo, trans, diag, n, k, ldab,
incX)
if !zsame(ab, abCopy) {
 t.Errorf("%v:
unexpected modification of ab", name)
}
if !zSameAtNonstrided(x, want, incX) {
 t.Errorf("%v: unexpected modification of x", name)
}
if !zEqualApproxAtStrided(x, want, incX, tol) {
 t.Errorf("%v: unexpected result\nwant %v\ngot  %v", name, want, x)
```

```
 }
}
graph{{S}S{S}}
graph{w:w:w w w:w w:w:w w:w w:w w:w:w w}
graph{<>{<>}}
digraph{{D:_->G:_->G:_}D:_->G:_}
graph{t<<=>>gra}
// Copyright 2016 The Gonum Authors. All rights reserved.
// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

package testlapack

import (
 "fmt"
 "math"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/lapack"
)

type Dlascler interface {
 Dlascl(kind lapack.MatrixType, kl, ku int, cfrom, cto float64, m, n int, a []float64, lda int)
}

func DlasclTest(t *testing.T, impl Dlascler) {
 const tol = 1e-16

 rnd := rand.New(rand.NewSource(1))
 for ti, test := range []struct {
  m, n int
 }{
  {0, 0},
  {1, 1},
  {1, 10},
  {10, 1},
  {2, 2},
  {2, 11},
  {11, 2},
  {3, 3},
  {3, 11},
  {11, 3},
  {11, 11},
  {11, 100},
  {100, 11},
 } {
```

```
 m := test.m
 n := test.n
 for _, extra := range []int{0, 11} {
  for _, kind := range []lapack.MatrixType{lapack.General, lapack.UpperTri, lapack.LowerTri} {
   a := randomGeneral(m, n, n+extra, rnd)
   aCopy := cloneGeneral(a)
   cfrom := rnd.NormFloat64()
   cto := rnd.NormFloat64()
   scale
:= cto / cfrom

   impl.Dlascl(kind, -1, -1, cfrom, cto, m, n, a.Data, a.Stride)

   prefix := fmt.Sprintf("Case #%v: kind=%v,m=%v,n=%v,extra=%v", ti, kind, m, n, extra)
   if !generalOutsideAllNaN(a) {
    t.Errorf("%v: out-of-range write to A", prefix)
   }
   switch kind {
   case lapack.General:
    for i := 0; i < m; i++ {
     for j := 0; j < n; j++ {
      want := scale * aCopy.Data[i*aCopy.Stride+j]
      got := a.Data[i*a.Stride+j]
      if math.Abs(want-got) > tol {
       t.Errorf("%v: unexpected A[%v,%v]=%v, want %v", prefix, i, j, got, want)
      }
     }
    }
   case lapack.UpperTri:
    for i := 0; i < m; i++ {
     for j := i; j < n; j++ {
      want := scale * aCopy.Data[i*aCopy.Stride+j]
      got := a.Data[i*a.Stride+j]
      if math.Abs(want-got) > tol {
       t.Errorf("%v: unexpected A[%v,%v]=%v, want %v", prefix, i, j, got, want)
      }
     }
    }
    for i := 0; i < m; i++ {
     for j := 0; j < min(i, n); j++ {
      if
a.Data[i*a.Stride+j] != aCopy.Data[i*aCopy.Stride+j] {
       t.Errorf("%v: unexpected modification in lower triangle of A", prefix)
      }
     }
    }
   case lapack.LowerTri:
    for i := 0; i < m; i++ {
```

```
      for j := 0; j <= min(i, n-1); j++ {
       want := scale * aCopy.Data[i*aCopy.Stride+j]
       got := a.Data[i*a.Stride+j]
       if math.Abs(want-got) > tol {
        t.Errorf("%v: unexpected A[%v,%v]=%v, want %v", prefix, i, j, got, want)
       }
      }
     }
     for i := 0; i < m; i++ {
      for j := i + 1; j < n; j++ {
       if a.Data[i*a.Stride+j] != aCopy.Data[i*aCopy.Stride+j] {
        t.Errorf("%v: unexpected modification in upper triangle of A", prefix)
       }
      }
     }
    }
   }
  }
 }
}
graph n1{{n1}n1{{n1}n1}n1}
graph{{NOd{NOr{{NOd{NOr}}}}}}
graph{Stt{Stt}Stt{Stt{Stt}{Stt}}}
// Copyright 2015 The Gonum Authors. All rights reserved.
// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

package optimize

import (
 "math"
)

// Converger returns the convergence of the optimization based on
// locations found during optimization. Converger must not modify the value of
// the provided Location in any of the methods.
type Converger interface {
 Init(dim int)
 Converged(loc *Location) Status
}

// NeverTerminate implements Converger, always reporting NotTerminated.
type NeverTerminate struct{}

func (NeverTerminate) Init(dim int) {}

func (NeverTerminate) Converged(loc *Location) Status {
 return NotTerminated
```

```
}

// FunctionConverge tests for insufficient improvement in the optimum value
// over the last iterations. A FunctionConvergence status is returned if
// there is no significant decrease for FunctionConverge.Iterations. A
// significant decrease is considered if
//   f < f_best
// and
//  f_best - f > FunctionConverge.Relative
 * maxabs(f, f_best) + FunctionConverge.Absolute
// If the decrease is significant, then the iteration counter is reset and
// f_best is updated.
//
// If FunctionConverge.Iterations == 0, it has no effect.
type FunctionConverge struct {
 Absolute   float64
 Relative   float64
 Iterations int

 first bool
 best  float64
 iter  int
}

func (fc *FunctionConverge) Init(dim int) {
 fc.first = true
 fc.best = 0
 fc.iter = 0
}

func (fc *FunctionConverge) Converged(l *Location) Status {
 f := l.F
 if fc.first {
  fc.best = f
  fc.first = false
  return NotTerminated
 }
 if fc.Iterations == 0 {
  return NotTerminated
 }
 maxAbs := math.Max(math.Abs(f), math.Abs(fc.best))
 if f < fc.best && fc.best-f > fc.Relative*maxAbs+fc.Absolute {
  fc.best = f
  fc.iter = 0
  return NotTerminated
 }
 fc.iter++
 if fc.iter < fc.Iterations {
```

```
 return NotTerminated
 }
 return FunctionConvergence
}
graph{{{{{

}}



{

}}



}}
graph{E{{{E}}}}
graph{{GRAr}GRAr}
graph{diG{{diG}{diG{diG}diG}}}
graph{{e4{{e4}{e4}}}}
graph{sub{{sub}}}
graph{diGd{diGo}{diGi}diGd{diGo}{diGo}}
graph{SubGrapL}
graph{Z9_3_2_7_9_9_6_{D0_5_5_9_4_4_}{{B4_2_3_4_2_3_4_2_3_4_2_3_4_2_3_4_2_3_4_2_3_4_}}C5_2_3_
6_1_""{}{}}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

package unit

import (
 "fmt"
 "testing"
)

func TestCapacitanceFormat(t *testing.T) {
 for _, test := range []struct {
  value  Capacitance
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 F"},
  {1.23456789, "%.1v", "1 F"},
  {1.23456789, "%20.1v", "                 1 F"},
  {1.23456789, "%20v", "        1.23456789 F"},
  {1.23456789, "%1v", "1.23456789 F"},
```

```
  {1.23456789, "%#v", "unit.Capacitance(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Capacitance=1.23456789 F)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
graph{di_{di_}}
/**/graph{"3298-547"--"3"--"-0"/**/"-0"--"5"[e=0]"4"--"9"[e=0]"6"--"327890"[e=0]"8"--"3"[e=0]"3298-547"--
"3"[e=0]}
graph{{"\{\{\L"}"\{\L"}
{
 "nodes": [
 { "data": { "id": "compound-1" } },
 { "data": { "id": "compound-2" } },
 { "data": { "id": "compound-3" } },
 { "data": { "id": "b", "parent": "compound-1" } },
 { "data": { "id": "c", "parent": "compound-1" } },
 { "data": { "id": "a", "parent": "compound-2" } },
 { "data": { "id": "d", "parent": "compound-3" } },
 { "data": { "id": "e", "parent": "compound-3" } },
 { "data": { "id": "f" } }
 ],
 "edges": [
 { "data": { "id": "ab", "source": "a", "target": "b" } },
 { "data": { "id": "bc", "source": "b", "target": "c" } },
 { "data": { "id": "ac", "source": "a", "target": "c" } },
 { "data": { "id": "cd", "source": "c", "target": "d" } },
 { "data": { "id": "de", "source": "d", "target": "e" } },
 { "data": { "id": "df", "source": "d", "target": "f" } },
 { "data": { "id": "af", "source": "a", "target": "f" } }
 ]
}
graph{{rr}rrrr}
graph{{Su5{{Su1}}}}
graph{dir{dir}}
graph{{GRAPA{GRAPA GRAPG{GRAPA{GRAPA GRAPG}GRAPG}GRAPG}GRAPG}GRAPG}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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// license that can be found in the LICENSE file.

package unit

import (
```

```
 "errors"
 "fmt"
 "math"
 "unicode/utf8"
)

// Candela represents a luminous intensity in candela.
type LuminousIntensity float64

const Candela LuminousIntensity = 1

// Unit converts the LuminousIntensity to a *Unit
func (j LuminousIntensity) Unit() *Unit {
 return New(float64(j), Dimensions{
  LuminousIntensityDim: 1,
 })
}

// LuminousIntensity allows LuminousIntensity to implement a LuminousIntensityer interface
func (j LuminousIntensity) LuminousIntensity() LuminousIntensity {
 return j
}

// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (j *LuminousIntensity) From(u Uniter) error {
 if !DimensionsMatch(u, Candela) {
  *j = LuminousIntensity(math.NaN())
  return errors.New("Dimension
 mismatch")
 }
 *j = LuminousIntensity(u.Unit().Value())
 return nil
}

func (j LuminousIntensity) Format(fs fmt.State, c rune) {
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", j, float64(j))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " cd"
  switch {
```

```
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(j))
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(j))
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(j))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(j))
  }
  fmt.Fprint(fs, unit)
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g cd)", c, j, float64(j))
 }
}
graph{{{GRA8}GRA8}GRA9}
graph{{Digr_{}Digr_}{Digr_{Digr_}{Digr_}Digr_{Digr_}}}
graph{{{{Stricy}}Stricy}}
*> \brief \b DISNAN tests input for NaN.
*
*  =========== DOCUMENTATION ===========
*
* Online html documentation available at
*            http://www.netlib.org/lapack/explore-html/
*
*> \htmlonly
*> Download DISNAN + dependencies
*> <a href="http://www.netlib.org/cgi-bin/netlibfiles.tgz?format=tgz&filename=/lapack/lapack_routine/disnan.f">
*> [TGZ]</a>
*> <a href="http://www.netlib.org/cgi-bin/netlibfiles.zip?format=zip&filename=/lapack/lapack_routine/disnan.f">
*> [ZIP]</a>
*> <a href="http://www.netlib.org/cgi-bin/netlibfiles.txt?format=txt&filename=/lapack/lapack_routine/disnan.f">
*> [TXT]</a>
*> \endhtmlonly
*
*  Definition:
*  ===========
*
*       LOGICAL FUNCTION DISNAN( DIN )
*
*       .. Scalar Arguments ..
*       DOUBLE PRECISION   DIN
*       ..
*
*
*> \par Purpose:
*  =============
*>
*> \verbatim
```

```
*>
*> DISNAN returns .TRUE. if its argument is NaN, and .FALSE.
*> otherwise.  To be replaced by the Fortran 2003 intrinsic in the
*> future.
*> \endverbatim
*
*  Arguments:
*
  ==========
*
*> \param[in] DIN
*> \verbatim
*>          DIN is DOUBLE PRECISION
*>          Input to test for NaN.
*> \endverbatim
*
*  Authors:
*  ========
*
*> \author Univ. of Tennessee
*> \author Univ. of California Berkeley
*> \author Univ. of Colorado Denver
*> \author NAG Ltd.
*
*> \date September 2012
*
*> \ingroup auxOTHERauxiliary
*
*  =====================================================================
      LOGICAL FUNCTION DISNAN( DIN )
*
*  -- LAPACK auxiliary routine (version 3.4.2) --
*  -- LAPACK is a software package provided by Univ. of Tennessee,    --
*  -- Univ. of California Berkeley, Univ. of Colorado Denver and NAG Ltd..--
*     September 2012
*
*     .. Scalar Arguments ..
      DOUBLE PRECISION   DIN
*     ..
*
*  =====================================================================
*
*  .. External Functions ..
      LOGICAL DLAISNAN
      EXTERNAL DLAISNAN
*  ..
*  .. Executable Statements ..
      DISNAN = DLAISNAN(DIN,DIN)
```

```
    RETURN
     END
graph{{EDG{EDG}}}
graph{{SUBGR}SUBGR{SUBGR{SUBGR}}}
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// license that can be found in the LICENSE file.

package gonum

import "math"

// Dlasv2 computes the singular value decomposition of a 22 matrix.
//  [ csl snl] [f g] [csr -snr] = [ssmax     0]
//  [-snl csl] [0 h] [snr  csr] = [    0 ssmin]
// ssmax is the larger absolute singular value, and ssmin is the smaller absolute
// singular value. [cls, snl] and [csr, snr] are the left and right singular vectors.
//
// Dlasv2 is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dlasv2(f, g, h float64) (ssmin, ssmax, snr, csr, snl, csl float64) {
 ft := f
 fa := math.Abs(ft)
 ht := h
 ha := math.Abs(h)
 // pmax points to the largest element of the matrix in terms of absolute value.
 // 1 if F, 2 if G, 3 if H.
 pmax := 1
 swap := ha > fa
 if swap {
  pmax = 3
  ft, ht = ht, ft
  fa, ha = ha, fa
 }
 gt := g
 ga := math.Abs(gt)
 var clt, crt, slt, srt
 float64
 if ga == 0 {
  ssmin = ha
  ssmax = fa
  clt = 1
  crt = 1
  slt = 0
  srt = 0
 } else {
  gasmall := true
  if ga > fa {
   pmax = 2
```

```
 if (fa / ga) < dlamchE {
  gasmall = false
  ssmax = ga
  if ha > 1 {
   ssmin = fa / (ga / ha)
  } else {
   ssmin = (fa / ga) * ha
  }
  clt = 1
  slt = ht / gt
  srt = 1
  crt = ft / gt
 }
}
if gasmall {
 d := fa - ha
 l := d / fa
 if d == fa { // deal with inf
  l = 1
 }
 m := gt / ft
 t := 2 - l
 s := math.Hypot(t, m)
 var r float64
 if l == 0 {
  r = math.Abs(m)
 } else {
  r = math.Hypot(l, m)
 }
 a := 0.5 * (s + r)
 ssmin = ha / a
 ssmax = fa * a
 if m == 0 {
  if l == 0 {
   t = math.Copysign(2, ft) * math.Copysign(1, gt)
  } else {
   t = gt/math.Copysign(d, ft) + m/t
  }
 } else {
  t = (m/(s+t) + m/(r+l)) * (1 + a)
 }
 l = math.Hypot(t, 2)
 crt = 2 / l
 srt = t / l
 clt = (crt + srt*m) / a
 slt = (ht / ft) * srt / a
}
}
```

```
 if swap {
  csl
 = srt
  snl = crt
  csr = slt
  snr = clt
 } else {
  csl = clt
  snl = slt
  csr = crt
  snr = srt
 }
 var tsign float64
 switch pmax {
 case 1:
  tsign = math.Copysign(1, csr) * math.Copysign(1, csl) * math.Copysign(1, f)
 case 2:
  tsign = math.Copysign(1, snr) * math.Copysign(1, csl) * math.Copysign(1, g)
 case 3:
  tsign = math.Copysign(1, snr) * math.Copysign(1, snl) * math.Copysign(1, h)
 }
 ssmax = math.Copysign(ssmax, tsign)
 ssmin = math.Copysign(ssmin, tsign*math.Copysign(1, f)*math.Copysign(1, h))
 return ssmin, ssmax, snr, csr, snl, csl
}
graph{{Dl{Dl}}}
graph{{STRI8}STRI4}
// SPDX-License-Identifier: Unlicense OR MIT

// +build darwin,ios

package window

import "C"

//export gio_runMain
func gio_runMain() {
 runMain()
}
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// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

// Package distuv provides univariate random distribution types.
package distuv // import "gonum.org/v1/gonum/stat/distuv"
graph{{SUBGRAv}SUBGRAh{{SUBGRAv}}SUBGRAh{{SUBGRAv}SUBGRAa}}
graph{SUBGR9{{SUBGR5}{SUBGR5}{SUBGR9{{SUBGR5}{SUBGR5}}}}}
```

```
graph{{No{{No}{No}}}}
graph{"\"\\"}
graph{N9{N7}}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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// license that can be found in the LICENSE file.

package unit

import (
 "fmt"
 "testing"
)

func TestMassFormat(t *testing.T) {
 for _, test := range []struct {
  value  Mass
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 kg"},
  {1.23456789, "%.1v", "1 kg"},
  {1.23456789, "%20.1v", "                1 kg"},
  {1.23456789, "%20v", "       1.23456789 kg"},
  {1.23456789, "%1v", "1.23456789 kg"},
  {1.23456789, "%#v", "unit.Mass(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Mass=1.23456789 kg)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
graph{diGh{diGo}{diGo}}
graph{{{{}}{{{{}{}{}}}}{{}}{{{{}{}}{{}{}}}}{{}{{}}{{{{{{{{{{{{}{}}}}}}}}}}}{{{{}{}{}}}}{{}{}}
}{{{{{}{}{}}{{}{}{}}}}{{}}{{{{{}{}}}}}}
graph{ea{ea""ea}}
graph{<<><>>}
graph{Stt{St}}
graph{{SUBGS{}SUBGV}}
// SPDX-License-Identifier: Unlicense OR MIT

/*
Package f32 is a float32 implementation of package image's
Point and Rectangle.
```

```
The coordinate space has the origin in the top left
corner with the axes extending right and down.
*/
package f32

// A Point is a two dimensional point.
type Point struct {
 X, Y float32
}

// A Rectangle contains the points (X, Y) where Min.X <= X < Max.X,
// Min.Y <= Y < Max.Y.
type Rectangle struct {
 Min, Max Point
}

// Add return the point p+p2.
func (p Point) Add(p2 Point) Point {
 return Point{X: p.X + p2.X, Y: p.Y + p2.Y}
}

// Sub returns the vector p-p2.
func (p Point) Sub(p2 Point) Point {
 return Point{X: p.X - p2.X, Y: p.Y - p2.Y}
}

// Mul returns p scaled by s.
func (p Point) Mul(s float32) Point {
 return Point{X: p.X * s, Y: p.Y * s}
}

// Size returns r's width and height.
func (r Rectangle) Size() Point {
 return Point{X: r.Dx(), Y: r.Dy()}
}

// Dx returns r's width.
func (r Rectangle) Dx() float32 {
 return r.Max.X - r.Min.X
}

// Dy returns
 r's Height.
func (r Rectangle) Dy() float32 {
 return r.Max.Y - r.Min.Y
}
```

```
// Intersect returns the intersection of r and s.
func (r Rectangle) Intersect(s Rectangle) Rectangle {
 if r.Min.X < s.Min.X {
  r.Min.X = s.Min.X
 }
 if r.Min.Y < s.Min.Y {
  r.Min.Y = s.Min.Y
 }
 if r.Max.X > s.Max.X {
  r.Max.X = s.Max.X
 }
 if r.Max.Y > s.Max.Y {
  r.Max.Y = s.Max.Y
 }
 return r
}

// Union returns the union of r and s.
func (r Rectangle) Union(s Rectangle) Rectangle {
 if r.Min.X > s.Min.X {
  r.Min.X = s.Min.X
 }
 if r.Min.Y > s.Min.Y {
  r.Min.Y = s.Min.Y
 }
 if r.Max.X < s.Max.X {
  r.Max.X = s.Max.X
 }
 if r.Max.Y < s.Max.Y {
  r.Max.Y = s.Max.Y
 }
 return r
}

// Canon returns the canonical version of r, where Min is to
// the upper left of Max.
func (r Rectangle) Canon() Rectangle {
 if r.Max.X < r.Min.X {
  r.Min.X, r.Max.X = r.Max.X, r.Min.X
 }
 if r.Max.Y < r.Min.Y {
  r.Min.Y, r.Max.Y = r.Max.Y, r.Min.Y
 }
 return r
}

// Empty reports whether r represents the empty area.
func
```

```
 (r Rectangle) Empty() bool {
 return r.Min.X >= r.Max.X || r.Min.Y >= r.Max.Y
}

// Add offsets r with the vector p.
func (r Rectangle) Add(p Point) Rectangle {
 return Rectangle{
  Point{r.Min.X + p.X, r.Min.Y + p.Y},
  Point{r.Max.X + p.X, r.Max.Y + p.Y},
 }
}

// Sub offsets r with the vector -p.
func (r Rectangle) Sub(p Point) Rectangle {
 return Rectangle{
  Point{r.Min.X - p.X, r.Min.Y - p.Y},
  Point{r.Max.X - p.X, r.Max.Y - p.Y},
 }
}
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// +build !noasm,!appengine,!safe

package math32

// Sqrt returns the square root of x.
//
// Special cases are:
// Sqrt(+Inf) = +Inf
// Sqrt(0) = 0
// Sqrt(x < 0) = NaN
// Sqrt(NaN) = NaN
func Sqrt(x float32) float32
graph{{{{S{{{S}}S}}}{{{{S}}S}}{S{{{S}}S}}{}{S{{S}}S}}{S{{}S}}{S{{{}{{{{S}}S}}{S{{{S}}S}}{}{S
{{S}}S}}{S{{}S}}{S{{{}}{S{{{}}S}}S{{{S}}S}}}{{{}}{}{S{{S}}S}}{S{S}S{{S}}S}}{S{{{S}}S}{}{S}}{S
{{{}}S}}S{{{S}}S}}}{{{}}{}{S{{S}}S}}{S{{}S{{S}}S}}{S{{{S}}S}{}{S{{S}}S}}{S{{}S}}{S{{{}}{S}}}{{
S{{{}}}}}{}}}
graph{{stric}stric{stric{stric{stric{stric}}{stric}}{stric}}{stric}}}
Graph{{{Subgz}Subgt{Subgz{Subgz{Subgz}}{Subgz}}}}
graph{SUA{SUA}}
graph{{diGr}}
```

```
digraph {hh[l=""]ge[l="  "]ne_s[l=""]ge_n_e_r[l=" "]_d_s[l="    "]_d_s_e_f_a[l="   iri"]_s[l=" "]s-
>{_n_e_r_s_S_s_s_s}_s->_d_s_d_s->_d_s_e_f_a_d_s_e_f_a->_d_s_d_s->_n_e_r[e=d]}
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// Package graphql implements JSON marshaling and unmarshaling of graph as
// used by GraphQL
package graphql // import "gonum.org/v1/gonum/graph/encoding/graphql"
graph{Str_}
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// Package layout defines functions for performing graph layout.
package layout // import "gonum.org/v1/gonum/graph/layout"
graph{{diGrapl}{diGrapp}}
graph{{DIE}}
graph{Np{Np{{Np{Np}}Np}}}
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package testlapack

import (
 "testing"

 "golang.org/x/exp/rand"
)

type Dgetrfer interface {
 Dgetrf(m, n int, a []float64, lda int, ipiv []int) bool
}

func DgetrfTest(t *testing.T, impl Dgetrfer) {
 rnd := rand.New(rand.NewSource(1))
 for _, test := range []struct {
  m, n, lda int
 }{
  {10, 5, 0},
  {5, 10, 0},
  {10, 10, 0},
  {300, 5, 0},
  {3, 500, 0},
  {4, 5, 0},
  {300, 200, 0},
  {204, 300, 0},
```

```
 {1, 3000, 0},
 {3000, 1, 0},
 {10, 5, 20},
 {5, 10, 20},
 {10, 10, 20},
 {300, 5, 400},
 {3, 500, 600},
 {200, 200, 300},
 {300, 200, 300},
 {204, 300, 400},
 {1, 3000, 4000},
 {3000, 1, 4000},
} {
 m := test.m
 n := test.n
 lda := test.lda
 if lda == 0 {
  lda = n
 }
 a := make([]float64, m*lda)
 for i := range a {
  a[i] = rnd.Float64()
 }
 mn := min(m, n)
 ipiv := make([]int, mn)
 for i := range
ipiv {
  ipiv[i] = rnd.Int()
 }

 // Cannot compare the outputs of Dgetrf and Dgetf2 because the pivoting may
 // happen differently. Instead check that the LPQ factorization is correct.
 aCopy := make([]float64, len(a))
 copy(aCopy, a)
 ok := impl.Dgetrf(m, n, a, lda, ipiv)
 checkPLU(t, ok, m, n, lda, ipiv, a, aCopy, 1e-10, false)
}
}
graph{G_}
graph{{{Dig5}Dig5}Dig5{{Dig5}Dig5}Dig5}
Graph{{{Subgz}Subgt{Subgz{Subgz}}}}
graph{"\\\\\\\\\\\\\\\\\\\\\\"}
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package gonum
```

```
import (
 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
)

// Dorgl2 generates an mn matrix Q with orthonormal rows defined by the
// first m rows product of elementary reflectors as computed by Dgelqf.
//  Q = H_0 * H_1 * ... * H_{k-1}
// len(tau) >= k, 0 <= k <= m, 0 <= m <= n, len(work) >= m.
// Dorgl2 will panic if these conditions are not met.
//
// Dorgl2 is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dorgl2(m, n, k int, a []float64, lda int, tau, work []float64) {
 switch {
 case m < 0:
  panic(mLT0)
 case n < m:
  panic(nLTM)
 case k < 0:
  panic(kLT0)
 case k > m:
  panic(kGTM)
 case lda < max(1, m):
  panic(badLdA)
 }

 if m == 0 {
  return
 }

 switch {
 case len(a) < (m-1)*lda+n:
  panic(shortA)
 case len(tau) < k:
  panic(shortTau)
 case len(work)
 < m:
  panic(shortWork)
 }

 bi := blas64.Implementation()

 if k < m {
  for i := k; i < m; i++ {
   for j := 0; j < n; j++ {
    a[i*lda+j] = 0
   }
  }
```

```
  for j := k; j < m; j++ {
   a[j*lda+j] = 1
  }
 }
 for i := k - 1; i >= 0; i-- {
  if i < n-1 {
   if i < m-1 {
    a[i*lda+i] = 1
    impl.Dlarf(blas.Right, m-i-1, n-i, a[i*lda+i:], 1, tau[i], a[(i+1)*lda+i:], lda, work)
   }
   bi.Dscal(n-i-1, -tau[i], a[i*lda+i+1:], 1)
  }
  a[i*lda+i] = 1 - tau[i]
  for l := 0; l < i; l++ {
   a[i*lda+l] = 0
  }
 }
}
digraph {e""[e=d]Dc[l=""]Noe[l=""]Df[l=""]Da[l=""][l=""]Da[l=""][l=""][l=""]e->l->e->e
Da->Da
Da->Df
Da->Df
Da->Noe
Df->Noe
Df->Df->l->Noe->Df->l->
De->n->Df
Noe->De ->  W ;
W ->  EE ;
ee ->  W ;
}
graph{GRA{GRA}GRA{GRA}GRA}
graph{<><><>}
graph{"\\\\
\\\\
sssss\\\\\\\\
\\\\
sssss}\s}\\\\\\\\\\\\\\\\\\\\\\"}
graph{SubGra}
graph{{diGr}diGr{diGr}diGr{}diGr}
graph{{{{subGr}}subGr}}
graph{{nodU{nodU}}}
graph{{{digrap{digrap}{digrap}digrap{digrap}digrap{digrap}digrap}digrap}}
graph{{diGr}diGr{}diGr}
graph{{GR}}
Graph{GraphG{GraphG}GraphG}
graph{{{{{{{subGn}{subGn}subGc{{{{subGn}subGc}}}}subGn}}}}}
graph{{ST6}{ST6}{ST6{ST6{ST6}ST6{ST6{ST6}ST6}{ST6{ST6}ST6}ST6}{ST6{ST6}ST6}ST6}}
```

```
digraph{gs->gt[r=n]n->s[r=e]n->gt[r=n]n->s[r=e]n->s->s[r=n]n->c[r=n]gt[r=n]n->r[r=e]n->s[r=n]a:gs-
>c[r=e]a:gs[r=n]s->t[r=n]s->t[r=n]s->c[r=n]t->e[r=e]t->c[r=n]t->c[r=n]t->r[r=e]t->e[r=n]c->c[r=n]c->r[r=e]r-
>t[r=e]r->f[r=e]r->r[r=e]e->s[r=d]e->f[r=d]e->d[r=n]s->e[r=n]s->n[r=n]s->t[r=n]s->e[r=e]}
graph{{stricu}{stricu}}
graph{{{{Gra}Gra{Gra}Gra{{Gra}Gra{Gra}Gra}}Gra}}
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// Package astx implements utility functions for generating abstract syntax
// trees of Graphviz DOT graphs.
package astx // import "gonum.org/v1/gonum/graph/formats/dot/internal/astx"
graph{{{Subg1{Subg1}Subg1}Subg1}{Subg1}}
graph{GRAPA}
Graph{{Grap5[]Grap5[]Grap5[]Grap5[]Grap5[]Grap5}Grap5}
graph{edg{edg{edg}edg}edg}
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package testlapack

import (
 "fmt"
 "math"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/floats"
 "gonum.org/v1/gonum/lapack"
)

type Dlansber interface {
 Dlansb(norm lapack.MatrixNorm, uplo blas.Uplo, n, kd int, ab []float64, ldab int, work []float64) float64
}

func DlansbTest(t *testing.T, impl Dlansber) {
 rnd := rand.New(rand.NewSource(1))
 for _, n := range []int{0, 1, 2, 3, 4, 5, 10} {
  for _, kd := range []int{0, (n + 1) / 4, (3*n - 1) / 4, (5*n + 1) / 4} {
   for _, uplo := range []blas.Uplo{blas.Upper, blas.Lower} {
    for _, ldab := range []int{kd + 1, kd + 1 + 7} {
     dlansbTest(t, impl, rnd, uplo, n, kd, ldab)
    }
   }
  }
```

```
 }
}

func dlansbTest(t *testing.T, impl Dlansber, rnd *rand.Rand, uplo blas.Uplo, n, kd int, ldab int) {
 const tol = 1e-15

 // Generate a random
 symmetric band matrix and compute all its norms.
 ab := make([]float64, max(0, (n-1)*ldab+kd+1))
 rowsum := make([]float64, n)
 colsum := make([]float64, n)
 var frobWant, maxabsWant float64
 if uplo == blas.Upper {
  for i := 0; i < n; i++ {
   for jb := 0; jb < min(n-i, kd+1); jb++ {
    aij := 2*rnd.Float64() - 1
    ab[i*ldab+jb] = aij

    j := jb + i
    colsum[j] += math.Abs(aij)
    rowsum[i] += math.Abs(aij)
    maxabsWant = math.Max(maxabsWant, math.Abs(aij))
    frobWant += aij * aij
    if i != j {
     // Take into account the symmetric elements.
     colsum[i] += math.Abs(aij)
     rowsum[j] += math.Abs(aij)
     frobWant += aij * aij
    }
   }
  }
 } else {
  for i := 0; i < n; i++ {
   for jb := max(0, kd-i); jb < kd+1; jb++ {
    aij := 2*rnd.Float64() - 1
    ab[i*ldab+jb] = aij

    j := jb - kd + i
    colsum[j] += math.Abs(aij)
    rowsum[i] += math.Abs(aij)
    maxabsWant = math.Max(maxabsWant, math.Abs(aij))
    frobWant += aij * aij
    if i != j {
     // Take
 into account the symmetric elements.
     colsum[i] += math.Abs(aij)
     rowsum[j] += math.Abs(aij)
     frobWant += aij * aij
```

```
    }
   }
  }
 }
 frobWant = math.Sqrt(frobWant)
 var maxcolsumWant, maxrowsumWant float64
 if n > 0 {
  maxcolsumWant = floats.Max(colsum)
  maxrowsumWant = floats.Max(rowsum)
 }

 abCopy := make([]float64, len(ab))
 copy(abCopy, ab)

 work := make([]float64, n)
 var maxcolsumGot, maxrowsumGot float64
 for _, norm := range []lapack.MatrixNorm{lapack.MaxAbs, lapack.MaxColumnSum, lapack.MaxRowSum,
lapack.Frobenius} {
  name := fmt.Sprintf("norm=%v,uplo=%v,n=%v,kd=%v,ldab=%v", string(norm), string(uplo), n, kd, ldab)

  normGot := impl.Dlansb(norm, uplo, n, kd, ab, ldab, work)

  if !floats.Equal(ab, abCopy) {
   t.Fatalf("%v: unexpected modification of ab", name)
  }

  if norm == lapack.MaxAbs {
   // MaxAbs norm involves no computation, so we expect
   // exact equality here.
   if normGot != maxabsWant {
    t.Errorf("%v: unexpected result; got %v, want
%v", name, normGot, maxabsWant)
   }
   continue
  }

  var normWant float64
  switch norm {
  case lapack.MaxColumnSum:
   normWant = maxcolsumWant
   maxcolsumGot = normGot
  case lapack.MaxRowSum:
   normWant = maxrowsumWant
   maxrowsumGot = normGot
  case lapack.Frobenius:
   normWant = frobWant
  }
  if math.Abs(normGot-normWant) >= tol {
```

```
  t.Errorf("%v: unexpected result; got %v, want %v", name, normGot, normWant)
 }
}
// MaxColSum and MaxRowSum norms should be exactly equal because the
// matrix is symmetric.
if maxcolsumGot != maxrowsumGot {
 name := fmt.Sprintf("uplo=%v,n=%v,kd=%v,ldab=%v", string(uplo), n, kd, ldab)
 t.Errorf("%v: unexpected mismatch between MaxColSum and MaxRowSum norms of A; MaxColSum %v,
MaxRowSum %v", name, maxcolsumGot, maxrowsumGot)
}
}
graph{Subgrapg}
graph{SOBGR}
Graph{SUBU{SUBS{SUBI}}}
graph{graph[]Graph[]{graph[]Graph[]graph[]}}
graph{Grap}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "errors"
 "fmt"
 "math"
 "unicode/utf8"
)

// Pressure represents a pressure in Pascals.
type Pressure float64

const Pascal Pressure = 1

// Unit converts the Pressure to a *Unit
func (pr Pressure) Unit() *Unit {
 return New(float64(pr), Dimensions{
  LengthDim: -1,
  MassDim:   1,
  TimeDim:   -2,
 })
}

// Pressure allows Pressure to implement a Pressurer interface
func (pr Pressure) Pressure() Pressure {
 return pr
```

```
}

// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (pr *Pressure) From(u Uniter) error {
 if !DimensionsMatch(u, Pascal) {
  *pr = Pressure(math.NaN())
  return errors.New("Dimension mismatch")
 }
 *pr = Pressure(u.Unit().Value())
 return nil
}

func (pr
 Pressure) Format(fs fmt.State, c rune) {
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", pr, float64(pr))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " Pa"
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(pr))
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(pr))
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(pr))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(pr))
  }
  fmt.Fprint(fs, unit)
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g Pa)", c, pr, float64(pr))
 }
}
graph{{Sub1}Sub5}
graph{c5{{{{c5Stric5}zG9Muyv6b_8Y_6o_3I_8oyk6RRa_9JBZMpa{}{d5wySxi5Kal4f_1_{Fd6_3_Fxmd3j_4_4_
7KqVledo5Rj6_hV2t_0d_0E4CPHk1EP7O8_6_WkiJDZN6nmuxJ{c5}}}{c5}}{c5{c5}}}}{{{{S1MbTdpGT9_4b
wR2_1nX2H{T7OStric5Stric5_{}}c5}}{{}}}}c5}
graph{{diGr}diGr{diGr}diGr{}diGr{}diGr}
graph{Subgraph}
```

```
graph{{DI9{{DI9}}}}
graph{"\\"}
graph{subgr}
graph{{SubGr_}{SubGr_}}
digraph{e{e}ef->5e}
graph{{DiGi}}
graph{edg_{edg_{edg_{edg_}}edg_{edg_}{edg_{edg_}}edg_}}
graph{edg{{edg}edg}edg}
graph{edg_{edg_{edg_{edg_}}edg_}}
graph{{No_}No_}
graph{{EdV""Edn""Eds}Edn""Eds}
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package gonum

import (
 "testing"

 "gonum.org/v1/gonum/blas/testblas"
)

func BenchmarkDgemmSmSmSm(b *testing.B) {
 testblas.DgemmBenchmark(b, impl, Sm, Sm, Sm, NT, NT)
}

func BenchmarkDgemmMedMedMed(b *testing.B) {
 testblas.DgemmBenchmark(b, impl, Med, Med, Med, NT, NT)
}

func BenchmarkDgemmMedLgMed(b *testing.B) {
 testblas.DgemmBenchmark(b, impl, Med, Lg, Med, NT, NT)
}

func BenchmarkDgemmLgLgLg(b *testing.B) {
 testblas.DgemmBenchmark(b, impl, Lg, Lg, Lg, NT, NT)
}

func BenchmarkDgemmLgSmLg(b *testing.B) {
 testblas.DgemmBenchmark(b, impl, Lg, Sm, Lg, NT, NT)
}

func BenchmarkDgemmLgLgSm(b *testing.B) {
 testblas.DgemmBenchmark(b, impl, Lg, Lg, Sm, NT, NT)
}

func BenchmarkDgemmHgHgSm(b *testing.B) {
```

```
 testblas.DgemmBenchmark(b, impl, Hg, Hg, Sm, NT, NT)
}

func BenchmarkDgemmMedMedMedTNT(b *testing.B) {
 testblas.DgemmBenchmark(b,
 impl, Med, Med, Med, T, NT)
}

func BenchmarkDgemmMedMedMedNTT(b *testing.B) {
 testblas.DgemmBenchmark(b, impl, Med, Med, Med, NT, T)
}

func BenchmarkDgemmMedMedMedTT(b *testing.B) {
 testblas.DgemmBenchmark(b, impl, Med, Med, Med, T, T)
}
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package testblas

import (
 "testing"

 "gonum.org/v1/gonum/blas"
)

type Zhpmver interface {
 Zhpmv(uplo blas.Uplo, n int, alpha complex128, ap []complex128, x []complex128, incX int, beta complex128, y
[]complex128, incY int)
}

func ZhpmvTest(t *testing.T, impl Zhpmver) {
 for tc, test := range zhemvTestCases {
  uplo := test.uplo
  n := len(test.x)
  alpha := test.alpha
  beta := test.beta
  for _, incX := range []int{-11, -2, -1, 1, 2, 7} {
   for _, incY := range []int{-11, -2, -1, 1, 2, 7} {
    x := makeZVector(test.x, incX)
    xCopy := make([]complex128, len(x))
    copy(xCopy, x)

    y := makeZVector(test.y, incY)

    ap := zPack(uplo, n, test.a, n)
    apCopy := make([]complex128, len(ap))
```

```
    copy(apCopy, ap)

    impl.Zhpmv(test.uplo, n, alpha, ap, x, incX, beta, y, incY)

    if !zsame(x, xCopy) {
     t.Errorf("Case
 %v (incX=%v,incY=%v): unexpected modification of x", tc, incX, incY)
    }
    if !zsame(ap, apCopy) {
     t.Errorf("Case %v (incX=%v,incY=%v): unexpected modification of A", tc, incX, incY)
    }

    var want []complex128
    switch {
    case incX > 0 && incY > 0:
     want = makeZVector(test.want, incY)
    case incX < 0 && incY > 0:
     want = makeZVector(test.wantXNeg, incY)
    case incX > 0 && incY < 0:
     want = makeZVector(test.wantYNeg, incY)
    default:
     want = makeZVector(test.wantXYNeg, incY)
    }
    if !zsame(y, want) {
     t.Errorf("Case %v (incX=%v,incY=%v): unexpected result\nwant %v\ngot  %v", tc, incX, incY, want, y)
    }
   }
  }
 }
}
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// Package combin implements routines involving combinatorics (permutations,
// combinations, etc.).
package combin // import "gonum.org/v1/gonum/stat/combin"
digraph{B:e->G:e->G:e->B:e->B:e->G:e}
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package testlapack

import (
 "testing"

 "golang.org/x/exp/rand"
```

```
)

type Dgebd2er interface {
 Dgebd2(m, n int, a []float64, lda int, d, e, tauq, taup, work []float64)
}

func Dgebd2Test(t *testing.T, impl Dgebd2er) {
 rnd := rand.New(rand.NewSource(1))
 for _, test := range []struct {
  m, n, lda int
 }{
  {3, 4, 0},
  {4, 3, 0},
  {3, 4, 10},
  {4, 3, 10},
 } {
  m := test.m
  n := test.n
  lda := test.lda
  if lda == 0 {
   lda = n
  }
  // Allocate mn matrix A and fill it with random numbers.
  a := make([]float64, m*lda)
  for i := range a {
   a[i] = rnd.NormFloat64()
  }
  // Store a copy of A for later comparison.
  aCopy := make([]float64, len(a))
  copy(aCopy, a)
  // Allocate slices for the main and off diagonal.
  nb := min(m, n)
  d := nanSlice(nb)
  e := nanSlice(nb - 1)
  // Allocate slices for scalar factors of
 elementary reflectors
  // and fill them with NaNs.
  tauP := nanSlice(nb)
  tauQ := nanSlice(nb)
  // Allocate workspace.
  work := nanSlice(max(m, n))

  // Reduce A to upper or lower bidiagonal form by an orthogonal
  // transformation.
  impl.Dgebd2(m, n, a, lda, d, e, tauQ, tauP, work)

  // Check that it holds Q * A * P = B where B is represented by
  // d and e.
```

```
 checkBidiagonal(t, m, n, nb, a, lda, d, e, tauP, tauQ, aCopy)
 }
}
graph{sub{sub}}
graph{{STV}STV}
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package gonum

import "math"

// Dlassq updates a sum of squares in scaled form. The input parameters scale and
// sumsq represent the current scale and total sum of squares. These values are
// updated with the information in the first n elements of the vector specified
// by x and incX.
//
// Dlassq is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dlassq(n int, x []float64, incx int, scale float64, sumsq float64) (scl, smsq float64) {
 switch {
 case n < 0:
  panic(nLT0)
 case incx <= 0:
  panic(badIncX)
 case len(x) < 1+(n-1)*incx:
  panic(shortX)
 }

 if n == 0 {
  return scale, sumsq
 }

 for ix := 0; ix <= (n-1)*incx; ix += incx {
  absxi := math.Abs(x[ix])
  if absxi > 0 || math.IsNaN(absxi) {
   if scale < absxi {
    sumsq = 1 + sumsq*(scale/absxi)*(scale/absxi)
    scale = absxi
   }
  else {
    sumsq += (absxi / scale) * (absxi / scale)
   }
  }
 }
 return scale, sumsq
}
```

```
*> \brief \b XERBLA
*
*  =========== DOCUMENTATION ===========
*
* Online html documentation available at
*           http://www.netlib.org/lapack/explore-html/
*
*  Definition:
*  ===========
*
*       SUBROUTINE XERBLA( SRNAME, INFO )
*
*       .. Scalar Arguments ..
*       CHARACTER*(*)      SRNAME
*       INTEGER            INFO
*       ..
*
*
*> \par Purpose:
*  =============
*>
*> \verbatim
*>
*> XERBLA  is an error handler for the LAPACK routines.
*> It is called by an LAPACK routine if an input parameter has an
*> invalid value.  A message is printed and execution stops.
*>
*> Installers may consider modifying the STOP statement in order to
*> call system-specific exception-handling facilities.
*> \endverbatim
*
*  Arguments:
*  ==========
*
*> \param[in] SRNAME
*> \verbatim
*>          SRNAME is CHARACTER*(*)
*>          The name of the routine which called XERBLA.
*> \endverbatim
*>
*> \param[in] INFO
*> \verbatim
*>          INFO is INTEGER
*>          The position of
 the invalid parameter in the parameter list
*>          of the calling routine.
*> \endverbatim
*
```

```
*  Authors:
*  ========
*
*> \author Univ. of Tennessee
*> \author Univ. of California Berkeley
*> \author Univ. of Colorado Denver
*> \author NAG Ltd.
*
*> \date November 2011
*
*> \ingroup aux_blas
*
*  =====================================================================
      SUBROUTINE XERBLA( SRNAME, INFO )
*
*  -- Reference BLAS level1 routine (version 3.4.0) --
*  -- Reference BLAS is a software package provided by Univ. of Tennessee,    --
*  -- Univ. of California Berkeley, Univ. of Colorado Denver and NAG Ltd..--
*     November 2011
*
*     .. Scalar Arguments ..
      CHARACTER*(*)      SRNAME
      INTEGER            INFO
*     ..
*
* =====================================================================
*
*     .. Intrinsic Functions ..
      INTRINSIC          LEN_TRIM
*     ..
*     .. Executable Statements ..
*
      WRITE( *, FMT = 9999 )SRNAME( 1:LEN_TRIM( SRNAME ) ),
 INFO
*
      STOP
*
9999 FORMAT( ' ** On entry to ', A, ' parameter number ', I2, ' had ',
     $      'an illegal value' )
*
*     End of XERBLA
*
      END
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// license that can be found in the LICENSE file.

package mat
```

```
import (
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/floats"
)

func TestSVD(t *testing.T) {
 // Hand coded tests
 for _, test := range []struct {
  a *Dense
  u *Dense
  v *Dense
  s []float64
 }{
  {
   a: NewDense(4, 2, []float64{2, 4, 1, 3, 0, 0, 0, 0}),
   u: NewDense(4, 2, []float64{
    -0.8174155604703632, -0.5760484367663209,
    -0.5760484367663209, 0.8174155604703633,
    0, 0,
    0, 0,
   }),
   v: NewDense(2, 2, []float64{
    -0.4045535848337571, -0.9145142956773044,
    -0.9145142956773044, 0.4045535848337571,
   }),
   s: []float64{5.464985704219041, 0.365966190626258},
  },
  {
   // Issue #5.
   a: NewDense(3, 11, []float64{
    1, 1, 0, 1, 0, 0, 0, 0, 0, 11, 1,
    1, 0, 0, 0, 0, 0, 1, 0, 0, 12, 2,
    1, 1, 0, 0, 0, 0, 0, 0, 1, 13, 3,
   }),
   u: NewDense(3, 3, []float64{
    -0.5224167862273765,
 0.7864430360363114, 0.3295270133658976,
    -0.5739526766688285, -0.03852203026050301, -0.8179818935216693,
    -0.6306021141833781, -0.6164603833618163, 0.4715056408282468,
   }),
   v: NewDense(11, 3, []float64{
    -0.08123293141915189, 0.08528085505260324, -0.013165501690885152,
    -0.05423546426886932, 0.1102707844980355, 0.622210623111631,
    0, 0, 0,
```

```
   -0.0245733326078166, 0.510179651760153, 0.25596360803140994,
   0, 0, 0,
   0, 0, 0,
   -0.026997467150282436, -0.024989929445430496, -0.6353761248025164,
   0, 0, 0,
   -0.029662131661052707, -0.3999088672621176, 0.3662470150802212,
   -0.9798839760830571, 0.11328174160898856, -0.047702613241813366,
   -0.16755466189153964, -0.7395268089170608, 0.08395240366704032,
  }),
  s: []float64{21.259500881097434, 1.5415021616856566, 1.2873979074613628},
 },
} {
 var svd SVD
 ok := svd.Factorize(test.a, SVDThin)
 if !ok {
  t.Errorf("SVD failed")
 }
 s, u, v := extractSVD(&svd)
 if !floats.EqualApprox(s,
test.s, 1e-10) {
  t.Errorf("Singular value mismatch. Got %v, want %v.", s, test.s)
 }
 if !EqualApprox(u, test.u, 1e-10) {
  t.Errorf("U mismatch.\nGot:\n%v\nWant:\n%v", Formatted(u), Formatted(test.u))
 }
 if !EqualApprox(v, test.v, 1e-10) {
  t.Errorf("V mismatch.\nGot:\n%v\nWant:\n%v", Formatted(v), Formatted(test.v))
 }
 m, n := test.a.Dims()
 sigma := NewDense(min(m, n), min(m, n), nil)
 for i := 0; i < min(m, n); i++ {
  sigma.Set(i, i, s[i])
 }

 var ans Dense
 ans.Product(u, sigma, v.T())
 if !EqualApprox(test.a, &ans, 1e-10) {
  t.Errorf("A reconstruction mismatch.\nGot:\n%v\nWant:\n%v\n", Formatted(&ans), Formatted(test.a))
 }
}

for _, test := range []struct {
 m, n int
}{
 {5, 5},
 {5, 3},
 {3, 5},
 {150, 150},
```

```
 {200, 150},
 {150, 200},
} {
 m := test.m
 n := test.n
 for trial := 0; trial < 10; trial++ {
  a := NewDense(m, n, nil)
  for i := range a.mat.Data {
   a.mat.Data[i] = rand.NormFloat64()
  }
  aCopy := DenseCopyOf(a)

  //
Test Full decomposition.
  var svd SVD
  ok := svd.Factorize(a, SVDFull)
  if !ok {
   t.Errorf("SVD factorization failed")
  }
  if !Equal(a, aCopy) {
   t.Errorf("A changed during call to SVD with full")
  }
  s, u, v := extractSVD(&svd)
  sigma := NewDense(m, n, nil)
  for i := 0; i < min(m, n); i++ {
   sigma.Set(i, i, s[i])
  }
  var ansFull Dense
  ansFull.Product(u, sigma, v.T())
  if !EqualApprox(&ansFull, a, 1e-8) {
   t.Errorf("Answer mismatch when SVDFull")
  }

  // Test Thin decomposition.
  ok = svd.Factorize(a, SVDThin)
  if !ok {
   t.Errorf("SVD factorization failed")
  }
  if !Equal(a, aCopy) {
   t.Errorf("A changed during call to SVD with Thin")
  }
  sThin, u, v := extractSVD(&svd)
  if !floats.EqualApprox(s, sThin, 1e-8) {
   t.Errorf("Singular value mismatch between Full and Thin decomposition")
  }
  sigma = NewDense(min(m, n), min(m, n), nil)
  for i := 0; i < min(m, n); i++ {
   sigma.Set(i, i, sThin[i])
```

```
  }
  ansFull.Reset()
  ansFull.Product(u,
sigma, v.T())
  if !EqualApprox(&ansFull, a, 1e-8) {
   t.Errorf("Answer mismatch when SVDFull")
  }

  // Test None decomposition.
  ok = svd.Factorize(a, SVDNone)
  if !ok {
   t.Errorf("SVD factorization failed")
  }
  if !Equal(a, aCopy) {
   t.Errorf("A changed during call to SVD with none")
  }
  sNone := make([]float64, min(m, n))
  svd.Values(sNone)
  if !floats.EqualApprox(s, sNone, 1e-8) {
   t.Errorf("Singular value mismatch between Full and None decomposition")
  }
 }
}
}

func extractSVD(svd *SVD) (s []float64, u, v *Dense) {
 u = &Dense{}
 svd.UTo(u)
 v = &Dense{}
 svd.VTo(v)
 return svd.Values(nil), u, v
}
graph{DiGraQ{DiGraU}DiGraQ}
graph{NOZ{{NOZ{NOZ{NOZ}}NOZ{NOZ}}}NOG{NOG{NOZ}}}
graph{diGrap_}
*> \brief \b DAXPY
*
*  =========== DOCUMENTATION ===========
*
* Online html documentation available at
*            http://www.netlib.org/lapack/explore-html/
*
*  Definition:
*  ===========
*
*       SUBROUTINE DAXPY(N,DA,DX,INCX,DY,INCY)
*
*       .. Scalar Arguments ..
```

```
*       DOUBLE PRECISION DA
*       INTEGER INCX,INCY,N
*       ..
*       .. Array Arguments ..
*       DOUBLE PRECISION DX(*),DY(*)
*       ..
*
*
*> \par Purpose:
*  =============
*>
*> \verbatim
*>
*>    DAXPY constant times a vector plus a vector.
*>    uses unrolled loops for increments equal to one.
*> \endverbatim
*
*  Authors:
*  ========
*
*> \author Univ. of Tennessee
*> \author Univ. of California Berkeley
*> \author Univ. of Colorado Denver
*> \author NAG Ltd.
*
*> \date November 2011
*
*> \ingroup double_blas_level1
*
*> \par Further Details:
*  =====================
*>
*> \verbatim
*>
*>     jack dongarra, linpack, 3/11/78.
*>     modified 12/3/93, array(1) declarations changed to array(*)
*>
 \endverbatim
*>
*  =====================================================================
      SUBROUTINE DAXPY(N,DA,DX,INCX,DY,INCY)
*
*  -- Reference BLAS level1 routine (version 3.4.0) --
*  -- Reference BLAS is a software package provided by Univ. of Tennessee,    --
*  -- Univ. of California Berkeley, Univ. of Colorado Denver and NAG Ltd..--
*     November 2011
*
*     .. Scalar Arguments ..
```

```
      DOUBLE PRECISION DA
      INTEGER INCX,INCY,N
*     ..
*     .. Array Arguments ..
      DOUBLE PRECISION DX(*),DY(*)
*     ..
*
*  =====================================================================
*
*     .. Local Scalars ..
      INTEGER I,IX,IY,M,MP1
*     ..
*     .. Intrinsic Functions ..
      INTRINSIC MOD
*     ..
      IF (N.LE.0) RETURN
      IF (DA.EQ.0.0d0) RETURN
      IF (INCX.EQ.1 .AND. INCY.EQ.1) THEN
*
*       code for both increments equal to 1
*
*
*       clean-up loop
*
        M = MOD(N,4)
        IF (M.NE.0) THEN
          DO I = 1,M
            DY(I) =
 DY(I) + DA*DX(I)
          END DO
        END IF
        IF (N.LT.4) RETURN
        MP1 = M + 1
        DO I = MP1,N,4
          DY(I) = DY(I) + DA*DX(I)
          DY(I+1) = DY(I+1) + DA*DX(I+1)
          DY(I+2) = DY(I+2) + DA*DX(I+2)
          DY(I+3) = DY(I+3) + DA*DX(I+3)
        END DO
      ELSE
*
*       code for unequal increments or equal increments
*         not equal to 1
*
        IX = 1
        IY = 1
        IF (INCX.LT.0) IX = (-N+1)*INCX + 1
        IF (INCY.LT.0) IY = (-N+1)*INCY + 1
```

```
      DO I = 1,N
       DY(IY) = DY(IY) + DA*DX(IX)
       IX = IX + INCX
       IY = IY + INCY
      END DO
    END IF
    RETURN
    END
graph{"rrrr"}
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package unit

import (
 "errors"
 "fmt"
 "math"
)

// Dimless represents a dimensionless constant
type Dimless float64

const (
 One Dimless = 1.0
)

// Unit converts the Dimless to a unit
func (d Dimless) Unit() *Unit {
 return New(float64(d), Dimensions{})
}

// Dimless allows Dimless to implement a Dimlesser interface
func (d Dimless) Dimless() Dimless {
 return d
}

// From converts the unit to a dimless. Returns an error if there
// is a mismatch in dimension
func (d *Dimless) From(u *Unit) error {
 if !DimensionsMatch(u, One) {
  (*d) = Dimless(math.NaN())
  return errors.New("Dimension mismatch")
 }
 (*d) = Dimless(u.Unit().Value())
 return nil
}
```

```
func (d Dimless) Format(fs fmt.State, c rune) {
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", d, float64(d))
   return
  }
  fallthrough
 case 'e', 'E',
 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), w, p, float64(d))
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(d))
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), w, float64(d))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(d))
  }
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g)", c, d, float64(d))
 }
}
graph{nod}
graph{_{__}_}
graph{{diGrap3}diGrap7}
graph{SUBGRAP{{SUBGRAP{SUBGRAP}SUBGRAP}}{SUBGRAP}SUBGRAP}
graph{"\\3\\3"}
graph{SubGv{SubGz}}
graph{{{DIGR_}}}
graph{STRICU{STRICU}}
graph{{{DiGrC{{DiGrC}DiGrG}{DiGrC}}DiGrC}}
graph{subGrah{subGraa}}
graph{{ST_}}
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// license that can be found in the LICENSE file.

package testlapack

import (
 "fmt"
 "testing"
```

```
 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
)

type Dpbtf2er interface {
 Dpbtf2(uplo blas.Uplo, n, kd int, ab []float64, ldab int) (ok bool)
}

// Dpbtf2Test tests Dpbtf2 on random symmetric positive definite band matrices
// by checking that the Cholesky factors multiply back to the original matrix.
func Dpbtf2Test(t *testing.T, impl Dpbtf2er) {
 // TODO(vladimir-ch): include expected-failure test case.
 rnd := rand.New(rand.NewSource(1))
 for _, n := range []int{0, 1, 2, 3, 4, 5, 10, 20} {
  for _, kd := range []int{0, (n + 1) / 4, (3*n - 1) / 4, (5*n + 1) / 4} {
   for _, uplo := range []blas.Uplo{blas.Upper, blas.Lower} {
    for _, ldab := range []int{kd + 1, kd + 1 + 7} {
     dpbtf2Test(t, impl, rnd, uplo, n, kd, ldab)
    }
   }
  }
 }
}

func dpbtf2Test(t *testing.T,
 impl Dpbtf2er, rnd *rand.Rand, uplo blas.Uplo, n, kd int, ldab int) {
 const tol = 1e-12

 name := fmt.Sprintf("uplo=%v,n=%v,kd=%v,ldab=%v", string(uplo), n, kd, ldab)

 // Generate a random symmetric positive definite band matrix.
 ab := randSymBand(uplo, n, kd, ldab, rnd)

 // Compute the Cholesky decomposition of A.
 abFac := make([]float64, len(ab))
 copy(abFac, ab)
 ok := impl.Dpbtf2(uplo, n, kd, abFac, ldab)
 if !ok {
  t.Fatalf("%v: bad test matrix, Dpbtf2 failed", name)
 }

 // Reconstruct an symmetric band matrix from the U*U or L*L factorization, overwriting abFac.
 dsbmm(uplo, n, kd, abFac, ldab)

 // Compute and check the max-norm distance between the reconstructed and original matrix A.
 dist := distSymBand(uplo, n, kd, abFac, ldab, ab, ldab)
 if dist > tol {
```

```
  t.Errorf("%v: unexpected result, diff=%v", name, dist)
 }
}
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// license that can be found in the LICENSE file.

package gonum

import (
 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
)

// Dtrtrs solves a triangular system of the form A * X = B or A * X = B. Dtrtrs
// returns whether the solve completed successfully. If A is singular, no solve is performed.
func (impl Implementation) Dtrtrs(uplo blas.Uplo, trans blas.Transpose, diag blas.Diag, n, nrhs int, a []float64, lda
int, b []float64, ldb int) (ok bool) {
 switch {
 case uplo != blas.Upper && uplo != blas.Lower:
  panic(badUplo)
 case trans != blas.NoTrans && trans != blas.Trans && trans != blas.ConjTrans:
  panic(badTrans)
 case diag != blas.NonUnit && diag != blas.Unit:
  panic(badDiag)
 case n < 0:
  panic(nLT0)
 case nrhs < 0:
  panic(nrhsLT0)
 case lda < max(1, n):
  panic(badLdA)
 case ldb < max(1, nrhs):
  panic(badLdB)
 }

 if n == 0 {
  return true
 }

 switch
 {
 case len(a) < (n-1)*lda+n:
  panic(shortA)
 case len(b) < (n-1)*ldb+nrhs:
  panic(shortB)
 }

 // Check for singularity.
```

```
 nounit := diag == blas.NonUnit
 if nounit {
  for i := 0; i < n; i++ {
   if a[i*lda+i] == 0 {
    return false
   }
  }
 }
 bi := blas64.Implementation()
 bi.Dtrsm(blas.Left, uplo, trans, diag, n, nrhs, 1, a, lda, b, ldb)
 return true
}
graph{DIGRA_}
graph{4[f=Gra2]4[f=5]3[f=2]3[f=9]6[f=2]6[f=0]9[f=2]9[f=1]5[f=2]5[f=2]6[f=2]6[f=4]6[f=8]0[f=2]3[f=2]3[f=3]3[f
=7]5[f=2]4[f=4]4[f=6]4[f=6]7[f=4]9[f=4]9[f=9]9[f=4]1[f=4]1[f=4]3[f=4]4[f=4]4[f=1]5[f=4]5[f=6]5[f=6]6[f=4]5[f=
1]5[f=6]7[f=1]7[f=2]7[f=7]1[f=1]1[f=1]2[f=1]8[f=1]8[f=8]2[f=1]2[f=3]2[f=5]0[f=1]0[f=1]3[f=1]3[f=9]}
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// Package ast declares the types used to represent abstract syntax trees of
// Graphviz DOT graphs.
package ast // import "gonum.org/v1/gonum/graph/formats/dot/ast"
graph{"AAAAAAA"}
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// license that can be found in the LICENSE file.

package testlapack

import "testing"

type Iladlcer interface {
 Iladlc(m, n int, a []float64, lda int) int
}

func IladlcTest(t *testing.T, impl Iladlcer) {
 for i, test := range []struct {
  a         []float64
  m, n, lda int
  ans       int
 }{
  {
   a:   []float64{0, 0, 0, 0},
   m:   1,
   n:   1,
   lda: 2,
   ans: -1,
```

```
},
{
 a:   []float64{0, 0, 0, 0},
 m:   2,
 n:   2,
 lda: 2,
 ans: -1,
},
{
 a:   []float64{0, 0, 0, 0},
 m:   4,
 n:   1,
 lda: 1,
 ans: -1,
},
{
 a:   []float64{0, 0, 0, 0},
 m:   1,
 n:   4,
 lda: 4,
 ans: -1,
},
{
 a: []float64{
  1, 2, 3, 4,
  5, 6, 7, 8,
 },
 m:   2,
 n:   4,
 lda: 4,
 ans: 3,
},
{
 a: []float64{
  1, 2, 3, 0,
  0, 0, 0, 0,
 },
 m:   2,
 n:   4,
 lda: 4,
 ans: 2,
},
{
 a: []float64{
  0, 0, 3,
4,
  0, 0, 0, 0,
 },
```

```
  m:   2,
  n:   2,
  lda: 4,
  ans: -1,
 },
} {
 ans := impl.Iladlc(test.m, test.n, test.a, test.lda)
 if ans != test.ans {
  t.Errorf("Column mismatch case %v. Want: %v, got: %v", i, test.ans, ans)
 }
}
}
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// license that can be found in the LICENSE file.

package testgraphs

import (
 "bytes"
 "errors"
 "reflect"
 "strings"
 "testing"

 "gonum.org/v1/gonum/graph"
 "gonum.org/v1/gonum/graph/simple"
)

var _ graph.Graph = (*Grid)(nil)

func join(g ...string) string { return strings.Join(g, "\n") }

type node int64

func (n node) ID() int64 { return int64(n) }

func TestGrid(t *testing.T) {
 g := NewGrid(4, 4, false)

 got := g.String()
 want := join(
  "****",
  "****",
  "****",
  "****",
 )
 if got != want {
```

```
 t.Fatalf("unexpected grid rendering:\ngot: %q\nwant:%q", got, want)
}

var ops = []struct {
 r, c  int
 state bool
 want  string
}{
 {
  r: 0, c: 1,
  state: true,
  want: join(
   "*.**",
   "****",
   "****",
   "****",
  ),
 },
 {
  r: 0, c: 1,
  state: false,
  want: join(
   "****",
   "****",
   "****",
   "****",
  ),
 },
 {
  r: 0, c: 1,
  state:
true,
  want: join(
   "*.**",
   "****",
   "****",
   "****",
  ),
 },
 {
  r: 0, c: 2,
  state: true,
  want: join(
   "*..*",
   "****",
   "****",
   "****",
  ),
```

```
 },
 {
  r: 1, c: 2,
  state: true,
  want: join(
   "*..*",
   "**.*",
   "****",
   "****",
  ),
 },
 {
  r: 2, c: 2,
  state: true,
  want: join(
   "*..*",
   "**.*",
   "**.*",
   "****",
  ),
 },
 {
  r: 3, c: 2,
  state: true,
  want: join(
   "*..*",
   "**.*",
   "**.*",
   "**.*",
  ),
 },
}
for _, test := range ops {
 g.Set(test.r, test.c, test.state)
 got := g.String()
 if got != test.want {
  t.Fatalf("unexpected grid rendering after set (%d, %d) open state to %t:\ngot: %q\nwant:%q",
   test.r, test.c, test.state, got, test.want)
 }
}

// Match the last state from the loop against the
// explicit description of the grid.
got = NewGridFrom(
 "*..*",
 "**.*",
 "**.*",
 "**.*",
```

```
).String()
want = g.String()
if got != want {
 t.Fatalf("unexpected
grid rendering from NewGridFrom:\ngot: %q\nwant:%q", got, want)
}

var paths = []struct {
 path     []graph.Node
 diagonal bool
 want     string
}{
 {
  path:     nil,
  diagonal: false,
  want: join(
   "*..*",
   "**.*",
   "**.*",
   "**.*",
  ),
 },
 {
  path:     []graph.Node{node(1), node(2), node(6), node(10), node(14)},
  diagonal: false,
  want: join(
   "*So*",
   "**o*",
   "**o*",
   "**G*",
  ),
 },
 {
  path:     []graph.Node{node(1), node(6), node(10), node(14)},
  diagonal: false,
  want: join(
   "*S.*",
   "**!*",
   "**.*",
   "**.*",
  ),
 },
 {
  path:     []graph.Node{node(1), node(6), node(10), node(14)},
  diagonal: true,
  want: join(
   "*S.*",
   "**o*",
```

```
   "**o*",
   "**G*",
  ),
 },
 {
  path:     []graph.Node{node(1), node(5), node(9)},
  diagonal: false,
  want: join(
   "*S.*",
   "*!.*",
   "**.*",
   "**.*",
  ),
 },
}
for _, test := range paths {
 g.AllowDiagonal = test.diagonal
 got,
err := g.Render(test.path)
 errored := err != nil
 if bytes.Contains(got, []byte{'!'}) != errored {
  t.Fatalf("unexpected error return: got:%v want:%v", err, errors.New("grid: not a path in graph"))
 }
 if string(got) != test.want {
  t.Fatalf("unexpected grid path rendering for %v:\ngot: %q\nwant:%q", test.path, got, want)
 }
}

var coords = []struct {
 r, c int
 id   int64
}{
 {r: 0, c: 0, id: 0},
 {r: 0, c: 3, id: 3},
 {r: 3, c: 0, id: 12},
 {r: 3, c: 3, id: 15},
}
for _, test := range coords {
 if id := g.NodeAt(test.r, test.c).ID(); id != test.id {
  t.Fatalf("unexpected ID for node at (%d, %d):\ngot: %d\nwant:%d", test.r, test.c, id, test.id)
 }
 if r, c := g.RowCol(test.id); r != test.r || c != test.c {
  t.Fatalf("unexpected row/col for node %d:\ngot: (%d, %d)\nwant:(%d, %d)", test.id, r, c, test.r, test.c)
 }
}

var reach = []struct {
 from     graph.Node
```

```
  diagonal bool
  to       []graph.Node
 }{
  {
   from:     node(0),
   diagonal: false,
   to:
       nil,
  },
  {
   from:     node(2),
   diagonal: false,
   to:       []graph.Node{simple.Node(1), simple.Node(6)},
  },
  {
   from:     node(1),
   diagonal: false,
   to:       []graph.Node{simple.Node(2)},
  },
  {
   from:     node(1),
   diagonal: true,
   to:       []graph.Node{simple.Node(2), simple.Node(6)},
  },
 }
 for _, test := range reach {
  g.AllowDiagonal = test.diagonal
  got := graph.NodesOf(g.From(test.from.ID()))
  if !reflect.DeepEqual(got, test.to) {
   t.Fatalf("unexpected nodes from %d with allow diagonal=%t:\ngot: %v\nwant:%v",
    test.from, test.diagonal, got, test.to)
  }
 }
}
graph{<=>{<=>}}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "fmt"
 "testing"
)
```

```
func TestVolumeFormat(t *testing.T) {
 for _, test := range []struct {
  value  Volume
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 m^3"},
  {1.23456789, "%.1v", "1 m^3"},
  {1.23456789, "%20.1v", "               1 m^3"},
  {1.23456789, "%20v", "      1.23456789 m^3"},
  {1.23456789, "%1v", "1.23456789 m^3"},
  {1.23456789, "%#v", "unit.Volume(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Volume=1.23456789 m^3)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
Graph{{Subgra_}}
graph{{SUBGRAP_}}
graph{{{subG1}}}
graph{{{Digrapn}{Digrapt}}}
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package optimize

import (
 "math"

 "gonum.org/v1/gonum/mat"
)

var _ Method = (*ListSearch)(nil)

// ListSearch finds the optimum location from a specified list of possible
// optimum locations.
type ListSearch struct {
 // Locs is the list of locations to optimize. Each row of Locs is a location
 // to optimize. The number of columns of Locs must match the dimensions
 // passed to InitGlobal, and Locs must have at least one row.
 Locs mat.Matrix

 eval    int
 rows    int
```

```
 bestF   float64
 bestIdx int
}

func (*ListSearch) Uses(has Available) (uses Available, err error) {
 return has.function()
}

// InitGlobal initializes the method for optimization. The input dimension
// must match the number of columns of Locs.
func (l *ListSearch) Init(dim, tasks int) int {
 if dim <= 0 {
  panic(nonpositiveDimension)
 }
 if tasks < 0
 {
  panic(negativeTasks)
 }
 r, c := l.Locs.Dims()
 if r == 0 {
  panic("listsearch: list matrix has no rows")
 }
 if c != dim {
  panic("listsearch: supplied dimension does not match list columns")
 }
 l.eval = 0
 l.rows = r
 l.bestF = math.Inf(1)
 l.bestIdx = -1
 return min(r, tasks)
}

func (l *ListSearch) sendNewLoc(operation chan<- Task, task Task) {
 task.Op = FuncEvaluation
 task.ID = l.eval
 mat.Row(task.X, l.eval, l.Locs)
 l.eval++
 operation <- task
}

func (l *ListSearch) updateMajor(operation chan<- Task, task Task) {
 // Update the best value seen so far, and send a MajorIteration.
 if task.F < l.bestF {
  l.bestF = task.F
  l.bestIdx = task.ID
 } else {
  task.F = l.bestF
  mat.Row(task.X, l.bestIdx, l.Locs)
```

```
 }
 task.Op = MajorIteration
 operation <- task
}

func (l *ListSearch) Status() (Status, error) {
 if l.eval < l.rows {
  return NotTerminated, nil
 }
 return MethodConverge, nil
}

func (l *ListSearch) Run(operation chan<- Task, result <-chan Task, tasks []Task) {
 //
 Send initial tasks to evaluate
 for _, task := range tasks {
  l.sendNewLoc(operation, task)
 }
 // Read from the channel until PostIteration is sent or until the list of
 // tasks is exhausted.
Loop:
 for {
  task := <-result
  switch task.Op {
  default:
   panic("unknown operation")
  case PostIteration:
   break Loop
  case MajorIteration:
   if l.eval == l.rows {
    task.Op = MethodDone
    operation <- task
    continue
   }
   l.sendNewLoc(operation, task)
  case FuncEvaluation:
   l.updateMajor(operation, task)
  }
 }

 // Post iteration was sent, or the list has been completed. Read in the final
 // list of tasks.
 for task := range result {
  switch task.Op {
  default:
   panic("unknown operation")
  case MajorIteration:
  case FuncEvaluation:
```

```
   l.updateMajor(operation, task)
  }
 }
 close(operation)
}
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// Package floats provides a set of helper routines for dealing with slices
// of float64. The functions avoid allocations to allow for use within tight
// loops without garbage collection overhead.
//
// The convention used is that when a slice is being modified in place, it has
// the name dst.
package floats // import "gonum.org/v1/gonum/floats"
graph{graU{graS}{graS}{graS}{graS}}
graph{{{gra_{}gra_{}gra_}}gra_}
graph{{{{SUBGRAPe{{SUBGRAPk{SUBGRAPk}}SUBGRAPk}}}}}
graph{edg}
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package c128

import (
 "math"
 "testing"
)

const (
 msgVal   = "%v: unexpected value at %v Got: %v Expected: %v"
 msgGuard = "%v: Guard violated in %s vector %v %v"
)

var (
 inf       = math.Inf(1)
 benchSink complex128
)

func same(x, y complex128) bool {
 return (x == y ||
  math.IsNaN(real(x)) && math.IsNaN(real(y)) && imag(x) == imag(y) ||
  math.IsNaN(imag(y)) && math.IsNaN(imag(x)) && real(y) == real(x) ||
  math.IsNaN(real(x)) && math.IsNaN(real(y)) && math.IsNaN(imag(y)) && math.IsNaN(imag(x)))
}
```

```
func guardVector(vec []complex128, guard_val complex128, guard_len int) (guarded []complex128) {
 guarded = make([]complex128, len(vec)+guard_len*2)
 copy(guarded[guard_len:], vec)
 for i := 0; i < guard_len; i++ {
  guarded[i] = guard_val
  guarded[len(guarded)-1-i] = guard_val
 }
 return guarded
}

func isValidGuard(vec
 []complex128, guard_val complex128, guard_len int) bool {
 for i := 0; i < guard_len; i++ {
  if vec[i] != guard_val || vec[len(vec)-1-i] != guard_val {
   return false
  }
 }
 return true
}

func guardIncVector(vec []complex128, guard_val complex128, inc, guard_len int) (guarded []complex128) {
 s_ln := len(vec) * inc
 if inc < 0 {
  s_ln = len(vec) * -inc
 }
 guarded = make([]complex128, s_ln+guard_len*2)
 for i, cas := 0, 0; i < len(guarded); i++ {
  switch {
  case i < guard_len, i > guard_len+s_ln:
   guarded[i] = guard_val
  case (i-guard_len)%(inc) == 0 && cas < len(vec):
   guarded[i] = vec[cas]
   cas++
  default:
   guarded[i] = guard_val
  }
 }
 return guarded
}

func checkValidIncGuard(t *testing.T, vec []complex128, guard_val complex128, inc, guard_len int) {
 s_ln := len(vec) - 2*guard_len
 if inc < 0 {
  s_ln = len(vec) * -inc
 }

 for i := range vec {
  switch {
```

```
  case vec[i] == guard_val:
   // Correct value
  case i < guard_len:
   t.Errorf("Front guard violated at %d
 %v", i, vec[:guard_len])
  case i > guard_len+s_ln:
   t.Errorf("Back guard violated at %d %v", i-guard_len-s_ln, vec[guard_len+s_ln:])
  case (i-guard_len)%inc == 0 && (i-guard_len)/inc < len(vec):
   // Ignore input values
  default:
   t.Errorf("Internal guard violated at %d %v", i-guard_len, vec[guard_len:guard_len+s_ln])
  }
 }
}

var ( // Offset sets for testing alignment handling in Unitary assembly functions.
 align1 = []int{0, 1}
 align2 = newIncSet(0, 1)
 align3 = newIncToSet(0, 1)
)

type incSet struct {
 x, y int
}

// genInc will generate all (x,y) combinations of the input increment set.
func newIncSet(inc ...int) []incSet {
 n := len(inc)
 is := make([]incSet, n*n)
 for x := range inc {
  for y := range inc {
   is[x*n+y] = incSet{inc[x], inc[y]}
  }
 }
 return is
}

type incToSet struct {
 dst, x, y int
}

// genIncTo will generate all (dst,x,y) combinations of the input increment set.
func newIncToSet(inc ...int) []incToSet {
 n := len(inc)
 is := make([]incToSet, n*n*n)
 for
 i, dst := range inc {
  for x := range inc {
```

```
  for y := range inc {
   is[i*n*n+x*n+y] = incToSet{dst, inc[x], inc[y]}
  }
 }
}
return is
}
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package stat

// faithful is the faithful data set from R.
var faithful = struct{ waiting, eruptions []float64 }{
 waiting: []float64{
  79, 54, 74, 62, 85, 55, 88, 85,
  51, 85, 54, 84, 78, 47, 83, 52,
  62, 84, 52, 79, 51, 47, 78, 69,
  74, 83, 55, 76, 78, 79, 73, 77,
  66, 80, 74, 52, 48, 80, 59, 90,
  80, 58, 84, 58, 73, 83, 64, 53,
  82, 59, 75, 90, 54, 80, 54, 83,
  71, 64, 77, 81, 59, 84, 48, 82,
  60, 92, 78, 78, 65, 73, 82, 56,
  79, 71, 62, 76, 60, 78, 76, 83,
  75, 82, 70, 65, 73, 88, 76, 80,
  48, 86, 60, 90, 50, 78, 63, 72,
  84, 75, 51, 82, 62, 88, 49, 83,
  81, 47, 84, 52, 86, 81, 75, 59,
  89, 79, 59, 81, 50, 85, 59, 87,
  53, 69, 77, 56, 88, 81, 45, 82,
  55, 90, 45, 83, 56, 89, 46, 82,
  51, 86, 53, 79, 81, 60, 82, 77,
  76, 59, 80, 49, 96, 53, 77, 77,
  65, 81, 71, 70, 81, 93, 53, 89,
  45, 86, 58, 78, 66, 76,
 63, 88,
  52, 93, 49, 57, 77, 68, 81, 81,
  73, 50, 85, 74, 55, 77, 83, 83,
  51, 78, 84, 46, 83, 55, 81, 57,
  76, 84, 77, 81, 87, 77, 51, 78,
  60, 82, 91, 53, 78, 46, 77, 84,
  49, 83, 71, 80, 49, 75, 64, 76,
  53, 94, 55, 76, 50, 82, 54, 75,
  78, 79, 78, 78, 70, 79, 70, 54,
  86, 50, 90, 54, 54, 77, 79, 64,
  75, 47, 86, 63, 85, 82, 57, 82,
```

```
 67, 74, 54, 83, 73, 73, 88, 80,
 71, 83, 56, 79, 78, 84, 58, 83,
 43, 60, 75, 81, 46, 90, 46, 74,
},
eruptions: []float64{
 3.600, 1.800, 3.333, 2.283, 4.533, 2.883, 4.700, 3.600,
 1.950, 4.350, 1.833, 3.917, 4.200, 1.750, 4.700, 2.167,
 1.750, 4.800, 1.600, 4.250, 1.800, 1.750, 3.450, 3.067,
 4.533, 3.600, 1.967, 4.083, 3.850, 4.433, 4.300, 4.467,
 3.367, 4.033, 3.833, 2.017, 1.867, 4.833, 1.833, 4.783,
 4.350, 1.883, 4.567, 1.750, 4.533, 3.317, 3.833, 2.100,
 4.633, 2.000, 4.800, 4.716, 1.833, 4.833, 1.733, 4.883,
 3.717, 1.667, 4.567, 4.317, 2.233, 4.500, 1.750, 4.800,
 1.817, 4.400, 4.167, 4.700, 2.067, 4.700, 4.033, 1.967,
 4.500,
4.000, 1.983, 5.067, 2.017, 4.567, 3.883, 3.600,
 4.133, 4.333, 4.100, 2.633, 4.067, 4.933, 3.950, 4.517,
 2.167, 4.000, 2.200, 4.333, 1.867, 4.817, 1.833, 4.300,
 4.667, 3.750, 1.867, 4.900, 2.483, 4.367, 2.100, 4.500,
 4.050, 1.867, 4.700, 1.783, 4.850, 3.683, 4.733, 2.300,
 4.900, 4.417, 1.700, 4.633, 2.317, 4.600, 1.817, 4.417,
 2.617, 4.067, 4.250, 1.967, 4.600, 3.767, 1.917, 4.500,
 2.267, 4.650, 1.867, 4.167, 2.800, 4.333, 1.833, 4.383,
 1.883, 4.933, 2.033, 3.733, 4.233, 2.233, 4.533, 4.817,
 4.333, 1.983, 4.633, 2.017, 5.100, 1.800, 5.033, 4.000,
 2.400, 4.600, 3.567, 4.000, 4.500, 4.083, 1.800, 3.967,
 2.200, 4.150, 2.000, 3.833, 3.500, 4.583, 2.367, 5.000,
 1.933, 4.617, 1.917, 2.083, 4.583, 3.333, 4.167, 4.333,
 4.500, 2.417, 4.000, 4.167, 1.883, 4.583, 4.250, 3.767,
 2.033, 4.433, 4.083, 1.833, 4.417, 2.183, 4.800, 1.833,
 4.800, 4.100, 3.966, 4.233, 3.500, 4.366, 2.250, 4.667,
 2.100, 4.350, 4.133, 1.867, 4.600, 1.783, 4.367, 3.850,
 1.933, 4.500,
2.383, 4.700, 1.867, 3.833, 3.417, 4.233,
 2.400, 4.800, 2.000, 4.150, 1.867, 4.267, 1.750, 4.483,
 4.000, 4.117, 4.083, 4.267, 3.917, 4.550, 4.083, 2.417,
 4.183, 2.217, 4.450, 1.883, 1.850, 4.283, 3.950, 2.333,
 4.150, 2.350, 4.933, 2.900, 4.583, 3.833, 2.083, 4.367,
 2.133, 4.350, 2.200, 4.450, 3.567, 4.500, 4.150, 3.817,
 3.917, 4.450, 2.000, 4.283, 4.767, 4.533, 1.850, 4.250,
 1.983, 2.250, 4.750, 4.117, 2.150, 4.417, 1.817, 4.467,
},
}
digraph{{digrape}F}
```

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package key

// ModShortcut is the platform's shortcut modifier, usually the Ctrl
// key. On Apple platforms it is the Cmd key.
const ModShortcut = ModCommand
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// license that can be found in the LICENSE file.

package gonum

import (
 "math"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
)

// Dpotf2 computes the Cholesky decomposition of the symmetric positive definite
// matrix a. If ul == blas.Upper, then a is stored as an upper-triangular matrix,
// and a = U U is stored in place into a. If ul == blas.Lower, then a = L L
// is computed and stored in-place into a. If a is not positive definite, false
// is returned. This is the unblocked version of the algorithm.
//
// Dpotf2 is an internal routine. It is exported for testing purposes.
func (Implementation) Dpotf2(ul blas.Uplo, n int, a []float64, lda int) (ok bool) {

```
switch {
case ul != blas.Upper && ul != blas.Lower:
 panic(badUplo)
case n < 0:
 panic(nLT0)
case lda < max(1, n):
 panic(badLdA)
}

// Quick return if possible.
if n == 0 {
 return true
}

if
len(a) < (n-1)*lda+n {
 panic(shortA)
}

bi := blas64.Implementation()

if ul == blas.Upper {
 for j := 0; j < n; j++ {
  ajj := a[j*lda+j]
  if j != 0 {
   ajj -= bi.Ddot(j, a[j:], lda, a[j:], lda)
  }
  if ajj <= 0 || math.IsNaN(ajj) {
   a[j*lda+j] = ajj
   return false
  }
  ajj = math.Sqrt(ajj)
  a[j*lda+j] = ajj
  if j < n-1 {
   bi.Dgemv(blas.Trans, j, n-j-1,
    -1, a[j+1:], lda, a[j:], lda,
    1, a[j*lda+j+1:], 1)
   bi.Dscal(n-j-1, 1/ajj, a[j*lda+j+1:], 1)
  }
 }
 return true
}
for j := 0; j < n; j++ {
 ajj := a[j*lda+j]
 if j != 0 {
  ajj -= bi.Ddot(j, a[j*lda:], 1, a[j*lda:], 1)
 }
 if ajj <= 0 || math.IsNaN(ajj) {
```

```
  a[j*lda+j] = ajj
  return false
 }
 ajj = math.Sqrt(ajj)
 a[j*lda+j] = ajj
 if j < n-1 {
  bi.Dgemv(blas.NoTrans, n-j-1, j,
   -1, a[(j+1)*lda:], lda, a[j*lda:], 1,
   1, a[(j+1)*lda+j:], lda)
  bi.Dscal(n-j-1, 1/ajj, a[(j+1)*lda+j:], lda)
 }
}
return true
}
graph{{{{

}}



}}
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package testlapack

import "testing"

type Iladlrer interface {
 Iladlr(m, n int, a []float64, lda int) int
}

func IladlrTest(t *testing.T, impl Iladlrer) {
 for i, test := range []struct {
  a        []float64
  m, n, lda int
  ans      int
 }{
  {
   a:   []float64{0, 0, 0, 0},
   m:   1,
   n:   1,
   lda: 2,
   ans: -1,
  },
  {
   a:   []float64{0, 0, 0, 0},
   m:   2,
```

```
 n:   2,
 lda: 2,
 ans: -1,
},
{
 a:   []float64{0, 0, 0, 0},
 m:   4,
 n:   1,
 lda: 1,
 ans: -1,
},
{
 a:   []float64{0, 0, 0, 0},
 m:   1,
 n:   4,
 lda: 4,
 ans: -1,
},
{
 a: []float64{
  1, 2, 3, 4,
  5, 6, 7, 8,
 },
 m:   2,
 n:   4,
 lda: 4,
 ans: 1,
},
{
 a: []float64{
  1, 2, 3, 0,
  0, 0, 0, 0,
 },
 m:   2,
 n:   4,
 lda: 4,
 ans: 0,
},
{
 a: []float64{
  0, 0, 3,
4,
  0, 0, 0, 0,
 },
 m:   2,
 n:   2,
 lda: 4,
 ans: -1,
```

```
  },
 } {
  ans := impl.Iladlr(test.m, test.n, test.a, test.lda)
  if ans != test.ans {
   t.Errorf("Column mismatch case %v. Want: %v, got: %v", i, test.ans, ans)
  }
 }
}
graph{strih{strii}}
graph{{{{{{{edgeg}}edgeg{{{edgeg}}edgeg}}}edgeg}edgeg}}
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package optimize

import (
 "errors"
 "fmt"
 "math"
)

var (
 // ErrZeroDimensional signifies an optimization was called with an input of length 0.
 ErrZeroDimensional = errors.New("optimize: zero dimensional input")

 // ErrLinesearcherFailure signifies that a Linesearcher has iterated too
 // many times. This may occur if the gradient tolerance is set too low.
 ErrLinesearcherFailure = errors.New("linesearch: failed to converge")

 // ErrNonDescentDirection signifies that LinesearchMethod has received a
 // search direction from a NextDirectioner in which the function is not
 // decreasing.
 ErrNonDescentDirection = errors.New("linesearch: non-descent search direction")

 // ErrNoProgress signifies that LinesearchMethod cannot make further
 // progress because there is no change in location after Linesearcher step
 // due to
 floating-point arithmetic.
 ErrNoProgress = errors.New("linesearch: no change in location after Linesearcher step")

 // ErrLinesearcherBound signifies that a Linesearcher reached a step that
 // lies out of allowed bounds.
 ErrLinesearcherBound = errors.New("linesearch: step out of bounds")

 // ErrMissingGrad signifies that a Method requires a Gradient function that
 // is not supplied by Problem.
 ErrMissingGrad = errors.New("optimize: problem does not provide needed Grad function")
```

```
 // ErrMissingHess signifies that a Method requires a Hessian function that
 // is not supplied by Problem.
 ErrMissingHess = errors.New("optimize: problem does not provide needed Hess function")
)

// ErrFunc is returned when an initial function value is invalid. The error
// state may be either +Inf or NaN. ErrFunc satisfies the error interface.
type ErrFunc float64

func (err ErrFunc) Error() string {
 switch {
 case math.IsInf(float64(err), 1):
  return "optimize: initial function value is infinite"
 case
 math.IsNaN(float64(err)):
  return "optimize: initial function value is NaN"
 default:
  panic("optimize: bad ErrFunc")
 }
}

// ErrGrad is returned when an initial gradient is invalid. The error gradient
// may be either Inf or NaN. ErrGrad satisfies the error interface.
type ErrGrad struct {
 Grad  float64 // Grad is the invalid gradient value.
 Index int     // Index is the position at which the invalid gradient was found.
}

func (err ErrGrad) Error() string {
 switch {
 case math.IsInf(err.Grad, 0):
  return fmt.Sprintf("optimize: initial gradient is infinite at position %d", err.Index)
 case math.IsNaN(err.Grad):
  return fmt.Sprintf("optimize: initial gradient is NaN at position %d", err.Index)
 default:
  panic("optimize: bad ErrGrad")
 }
}

// List of shared panic strings
var (
 badProblem = "optimize: objective function is undefined"
)
graph{{{subg{{{{subg}subg{{{{subg}}}}}}}}}}
graph{STRIC{STRIC{STRIC{{STRIC}STRIC{STRIC{STRIC}STRIC}}}STRIC}}
graph{{{{{{{{{Edge}}Edge}}}}}}}
```

```
      DOUBLE PRECISION FUNCTION MYTAN(A)
      DOUBLE PRECISION A
      MYTAN = DTAN(A)
      RETURN
      END
graph{SUBGRR{SUBGRZ{}SUBGRR}SUBGRZ{SUBGRZ{}SUBGRR}}
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package testblas

import (
 "fmt"
 "math"
 "testing"

 "golang.org/x/exp/rand"
 "gonum.org/v1/gonum/blas"
)

type Zhbmver interface {
 Zhbmv(uplo blas.Uplo, n, k int, alpha complex128, ab []complex128, ldab int, x []complex128, incX int, beta
complex128, y []complex128, incY int)

 Zhemver
}

func ZhbmvTest(t *testing.T, impl Zhbmver) {
 rnd := rand.New(rand.NewSource(1))
 for _, uplo := range []blas.Uplo{blas.Upper, blas.Lower} {
  for _, n := range []int{0, 1, 2, 3, 5} {
   for k := 0; k < n; k++ {
    for _, ldab := range []int{k + 1, k + 1 + 10} {
     // Generate all possible combinations of given increments.
     // Use slices to reduce indentation.
     for _, inc := range allPairs([]int{-11, 1, 7}, []int{-3, 1, 5}) {
      incX := inc[0]
      incY := inc[1]
      for _, ab := range []struct {
       alpha complex128
       beta
  complex128
      }{
       // All potentially relevant values of
       // alpha and beta.
       {0, 0},
       {0, 1},
```

```
      {0, complex(rnd.NormFloat64(), rnd.NormFloat64())},
      {complex(rnd.NormFloat64(), rnd.NormFloat64()), 0},
      {complex(rnd.NormFloat64(), rnd.NormFloat64()), 1},
      {complex(rnd.NormFloat64(), rnd.NormFloat64()), complex(rnd.NormFloat64(), rnd.NormFloat64())},
     } {
      testZhbmv(t, impl, rnd, uplo, n, k, ab.alpha, ab.beta, ldab, incX, incY)
     }
    }
   }
  }
 }
}

// testZhbmv tests Zhbmv by comparing its output to that of Zhemv.
func testZhbmv(t *testing.T, impl Zhbmver, rnd *rand.Rand, uplo blas.Uplo, n, k int, alpha, beta complex128, ldab,
incX, incY int) {
 const tol = 1e-13

 // Allocate a dense-storage Hermitian band matrix filled with NaNs that will be
 // used as the reference matrix for Zhemv.
 lda := max(1, n)
 a := makeZGeneral(nil, n, n, lda)
 // Fill the matrix with zeros.
 for i := 0; i < n; i++ {
  for
 j := 0; j < n; j++ {
   a[i*lda+j] = 0
  }
 }
 // Fill the triangle band with random data, invalidating the imaginary
 // part of diagonal elements because it should not be referenced by
 // Zhbmv and Zhemv.
 if uplo == blas.Upper {
  for i := 0; i < n; i++ {
   a[i*lda+i] = complex(rnd.NormFloat64(), math.NaN())
   for j := i + 1; j < min(n, i+k+1); j++ {
    re := rnd.NormFloat64()
    im := rnd.NormFloat64()
    a[i*lda+j] = complex(re, im)
   }
  }
 } else {
  for i := 0; i < n; i++ {
   for j := max(0, i-k); j < i; j++ {
    re := rnd.NormFloat64()
    im := rnd.NormFloat64()
    a[i*lda+j] = complex(re, im)
```

```
  }
  a[i*lda+i] = complex(rnd.NormFloat64(), math.NaN())
 }
}
// Create the actual Hermitian band matrix.
ab := zPackTriBand(k, ldab, uplo, n, a, lda)
abCopy := make([]complex128, len(ab))
copy(abCopy, ab)

// Generate a random complex vector x.
xtest := make([]complex128, n)
for i := range xtest {
 re := rnd.NormFloat64()
 im := rnd.NormFloat64()
 xtest[i] = complex(re,
im)
}
x := makeZVector(xtest, incX)
xCopy := make([]complex128, len(x))
copy(xCopy, x)

// Generate a random complex vector y.
ytest := make([]complex128, n)
for i := range ytest {
 re := rnd.NormFloat64()
 im := rnd.NormFloat64()
 ytest[i] = complex(re, im)
}
y := makeZVector(ytest, incY)

want := make([]complex128, len(y))
copy(want, y)

// Compute the reference result of alpha*op(A)*x + beta*y, storing it
// into want.
impl.Zhemv(uplo, n, alpha, a, lda, x, incX, beta, want, incY)
// Compute alpha*op(A)*x + beta*y, storing the result in-place into y.
impl.Zhbmv(uplo, n, k, alpha, ab, ldab, x, incX, beta, y, incY)

prefix := fmt.Sprintf("uplo=%v,n=%v,k=%v,incX=%v,incY=%v,ldab=%v", uplo, n, k, incX, incY, ldab)
if !zsame(x, xCopy) {
 t.Errorf("%v: unexpected modification of x", prefix)
}
if !zsame(ab, abCopy) {
 t.Errorf("%v: unexpected modification of ab", prefix)
}
if !zSameAtNonstrided(y, want, incY) {
 t.Errorf("%v: unexpected modification of
```

```
 y", prefix)
 }
 if !zEqualApproxAtStrided(y, want, incY, tol) {
  t.Errorf("%v: unexpected result\nwant %v\ngot  %v", prefix, want, y)
 }
}
```

graph{{{{{s_}{s_}}}}}
graph{DiGraphQ{DiGraphR}}
graph{no{no}{no}}
graph{{"_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}"}}

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```
// +build appengine safe

package set

import "reflect"

// same determines whether two sets are backed by the same store. In the
// current implementation using hash maps it makes use of the fact that
// hash maps are passed as a pointer to a runtime Hmap struct. A map is
// not seen by the runtime as a pointer though, so we use reflect to get
// the maps' pointer values to compare.
func same(a, b Nodes) bool {
 return reflect.ValueOf(a).Pointer() == reflect.ValueOf(b).Pointer()
}

// intsSame determines whether two sets are backed by the same store. In the
// current implementation using hash maps it makes use of the fact that
// hash maps are passed as a pointer to a runtime Hmap struct. A map is
// not seen by the runtime as a pointer though, so we use reflect to get
// the maps' pointer values to compare.
func intsSame(a,
 b Ints) bool {
 return reflect.ValueOf(a).Pointer() == reflect.ValueOf(b).Pointer()
}

// int64sSame determines whether two sets are backed by the same store. In the
// current implementation using hash maps it makes use of the fact that
// hash maps are passed as a pointer to a runtime Hmap struct. A map is
// not seen by the runtime as a pointer though, so we use reflect to get
// the maps' pointer values to compare.
```

```
func int64sSame(a, b Int64s) bool {
 return reflect.ValueOf(a).Pointer() == reflect.ValueOf(b).Pointer()
}
graph{{{DiV{{DiW}{DiW}}}DiV{{DiW}}}}
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//
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//
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package lexer_test

import (
 "archive/zip"
 "bytes"
 "io/ioutil"
 "os"
 "testing"

 "gonum.org/v1/gonum/graph/formats/dot"
)

func TestParseFile(t *testing.T) {
 golden := []struct {
  in  string
  out string
 }{
  {
   in:  "testdata/tokens.dot",
   out: "testdata/tokens.golden",
  },
 }
 for _, g := range golden {
  file, err := dot.ParseFile(g.in)
  if err != nil {
   t.Errorf("%q: unable to parse file; %v", g.in, err)
   continue
  }
  // If no output path is specified, the input is already golden.
  out := g.in
  if len(g.out) > 0 {
   out = g.out
  }
  buf, err := ioutil.ReadFile(out)
```

```
 if err != nil {
  t.Errorf("%q:
 unable to read file; %v", g.in, err)
  continue
 }
 got := file.String()
 // Remove trailing newline.
 want := string(bytes.TrimSpace(buf))
 if got != want {
  t.Errorf("%q: graph mismatch; expected %q, got %q", g.in, want, got)
 }
}
}

func TestParseFuzz(t *testing.T) {
 r, err := zip.OpenReader("../../fuzz/corpus.zip")
 if err != nil {
  if os.IsNotExist(err) {
   t.Skip("no corpus")
  }
  t.Fatalf("failed to open corpus: %v", err)
 }
 defer r.Close()

 for _, f := range r.File {
  rc, err := f.Open()
  if err != nil {
   t.Fatalf("failed to open %q: %v", f.Name, err)
  }
  func() {
   defer func() {
    p := recover()
    if p != nil {
     t.Errorf("unexpected panic parsing %q: %v", f.Name, p)
    }
   }()

   _, err = dot.Parse(rc)
   if err != nil {
    t.Errorf("unexpected error parsing %q: %v", f.Name, err)
   }
  }()
  rc.Close()
 }
}
graph{Strr-9Strr-9-9Strr-9Strr-9Strr-9-9Strr-9Strr-9Strr-9Strr}
graph{R{DIGRC{DIGRB}DIGRB}}
```

```
graph{{SUBGRA{{{{{SUBGRA{{{SUBGRA}{SUBGRA{SUBGRA}}}}}}}{SUBGRA{SUBGRA}}}}}}
graph{<<><><><><><><><><><><>>}
graph{diGs{{diGs{diGt{diGt}}}}}
graph{{NOD{{NOD}NOD}}NOD}
graph{Stri{{Stri}Stri}Stri}
graph{{{subG1}subG6{{{{subG1}subG1{subG1}}subG1}}}}
graph{{{{grN}{grN}{grN}grN}{grN}grO}}
graph{{Nod{Nod}Nod}}
graph{Grs</></>Grs</><R><T>}
graph{{{diGrapC}diGrapS}}
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package simple

import (
 "math"

 "gonum.org/v1/gonum/graph"
)

// Node is a simple graph node.
type Node int64

// ID returns the ID number of the node.
func (n Node) ID() int64 {
 return int64(n)
}

func newSimpleNode(id int) graph.Node {
 return Node(id)
}

// Edge is a simple graph edge.
type Edge struct {
 F, T graph.Node
}

// From returns the from-node of the edge.
func (e Edge) From() graph.Node { return e.F }

// To returns the to-node of the edge.
func (e Edge) To() graph.Node { return e.T }

// ReversedLine returns a new Edge with the F and T fields
// swapped.
func (e Edge) ReversedEdge() graph.Edge { return Edge{F: e.T, T: e.F} }
```

```
// WeightedEdge is a simple weighted graph edge.
type WeightedEdge struct {
 F, T graph.Node
 W    float64
}

// From returns the from-node of the edge.
func (e WeightedEdge) From() graph.Node
 { return e.F }

// To returns the to-node of the edge.
func (e WeightedEdge) To() graph.Node { return e.T }

// ReversedLine returns a new Edge with the F and T fields
// swapped. The weight of the new Edge is the same as
// the weight of the receiver.
func (e WeightedEdge) ReversedEdge() graph.Edge { return WeightedEdge{F: e.T, T: e.F, W: e.W} }

// Weight returns the weight of the edge.
func (e WeightedEdge) Weight() float64 { return e.W }

// isSame returns whether two float64 values are the same where NaN values
// are equalable.
func isSame(a, b float64) bool {
 return a == b || (math.IsNaN(a) && math.IsNaN(b))
}

type edgeSetter interface {
 SetEdge(e graph.Edge)
}

type weightedEdgeSetter interface {
 SetWeightedEdge(e graph.WeightedEdge)
}
graph{"}"}
graph{{{{{Strict}}Strict}}}
graph{{{digraph}}}
graph{{{subgrapu{subgrapu}}}{{{subgrapu}{subgrapu}}}{{subgrapu{}{}{subgrapu}}}}
graph{{stricN}{stricN}}
graph{str1{{{{{{{{{str9}}str1}}}}}}}}
graph{Gs{Gt}Gs{Gt}}
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package testblas
```

```
const (
 SmallMat  = 10
 MediumMat = 100
 LargeMat  = 1000
 HugeMat   = 10000
)
graph{{subGr_{subGr_}}}
digraph {
 {A}
 {B}
 subgraph S {C}
}
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package mat

import (
 "math"
 "reflect"
 "testing"

 "golang.org/x/exp/rand"
)

func TestPool(t *testing.T) {
 for i := 1; i < 10; i++ {
  for j := 1; j < 10; j++ {
   m := NewDense(i, j, nil)
   for k := 0; k < 5; k++ {
    work := make([]*Dense, rand.Intn(10)+1)
    for l := range work {
     w := getWorkspace(i, j, true)
     if !reflect.DeepEqual(w.mat, m.mat) {
      t.Error("unexpected non-zeroed matrix returned by getWorkspace")
     }
     if w.capRows != m.capRows {
      t.Error("unexpected capacity matrix returned by getWorkspace")
     }
     if w.capCols != m.capCols {
      t.Error("unexpected capacity matrix returned by getWorkspace")
     }
     if cap(w.mat.Data) >= 2*len(w.mat.Data) {
      t.Errorf("r: %d c: %d -> len: %d cap: %d", i, j, len(w.mat.Data), cap(w.mat.Data))
     }
     w.Set(0, 0, math.NaN())
     work[l]
```

```
 = w
    }
    for _, w := range work {
     putWorkspace(w)
    }
   }
  }
 }
}

var benchmat *Dense

func poolBenchmark(n, r, c int, clear bool) {
 for i := 0; i < n; i++ {
  benchmat = getWorkspace(r, c, clear)
  putWorkspace(benchmat)
 }
}

func newBenchmark(n, r, c int) {
 for i := 0; i < n; i++ {
  benchmat = NewDense(r, c, nil)
 }
}

func BenchmarkPool10by10Uncleared(b *testing.B)   { poolBenchmark(b.N, 10, 10, false) }
func BenchmarkPool10by10Cleared(b *testing.B)     { poolBenchmark(b.N, 10, 10, true) }
func BenchmarkNew10by10(b *testing.B)             { newBenchmark(b.N, 10, 10) }
func BenchmarkPool100by100Uncleared(b *testing.B) { poolBenchmark(b.N, 100, 100, false) }
func BenchmarkPool100by100Cleared(b *testing.B)   { poolBenchmark(b.N, 100, 100, true) }
func BenchmarkNew100by100(b *testing.B)           { newBenchmark(b.N, 100, 100) }

func BenchmarkMulWorkspaceDense100Half(b *testing.B)        { denseMulWorkspaceBench(b, 100, 0.5) }
func BenchmarkMulWorkspaceDense100Tenth(b
 *testing.B)       { denseMulWorkspaceBench(b, 100, 0.1) }
func BenchmarkMulWorkspaceDense1000Half(b *testing.B)       { denseMulWorkspaceBench(b, 1000, 0.5) }
func BenchmarkMulWorkspaceDense1000Tenth(b *testing.B)      { denseMulWorkspaceBench(b, 1000, 0.1) }
func BenchmarkMulWorkspaceDense1000Hundredth(b *testing.B)  { denseMulWorkspaceBench(b, 1000, 0.01) }
func BenchmarkMulWorkspaceDense1000Thousandth(b *testing.B) { denseMulWorkspaceBench(b, 1000, 0.001) }
func denseMulWorkspaceBench(b *testing.B, size int, rho float64) {
 b.StopTimer()
 a, _ := randDense(size, rho, rand.NormFloat64)
 d, _ := randDense(size, rho, rand.NormFloat64)
 b.StartTimer()
 for i := 0; i < b.N; i++ {
  a.Mul(a, d)
 }
}
```

```
graph{{ST}ST}
digraph {node0[]node1[l=""]node2[l=""]node3[l=""]node4[l=""]node5[l=""]node6[l=""]node7[l=""]node8[l=""]""-
>"""""->"""""->"""""->"""""->"""""->"""""->""}
graph{Grau}
graph{Digrp}
graph{{SU}{SU}{SU{SU}{SU}SU}}
graph{NodeS{NodeW}NodeW{NodeW{}NodeS NodeS}}
Graph{{Grap5[]Grap5[]Grap5}Grap5}
graph{{{SubG1}}}
graph{"\"\"\"\"\"\"\"\"\"\"\"\"\"\"\"\"\"\""}
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// TODO(kortschak): Generate this file from shadow.go when all complex type are available.

package mat

import "gonum.org/v1/gonum/blas/cblas128"

// checkOverlapComplex returns false if the receiver does not overlap data elements
// referenced by the parameter and panics otherwise.
//
// checkOverlapComplex methods return a boolean to allow the check call to be added to a
// boolean expression, making use of short-circuit operators.
func checkOverlapComplex(a, b cblas128.General) bool {
 if cap(a.Data) == 0 || cap(b.Data) == 0 {
  return false
 }

 off := offsetComplex(a.Data[:1], b.Data[:1])

 if off == 0 {
  // At least one element overlaps.
  if a.Cols == b.Cols && a.Rows == b.Rows && a.Stride == b.Stride {
   panic(regionIdentity)
  }
  panic(regionOverlap)
 }

 if off > 0 && len(a.Data) <= off {
  // We know a is completely
 before b.
  return false
 }
 if off < 0 && len(b.Data) <= -off {
  // We know a is completely after b.
  return false
```

```
 }

 if a.Stride != b.Stride && a.Stride != 1 && b.Stride != 1 {
  // Too hard, so assume the worst; if either stride
  // is one it will be caught in rectanglesOverlap.
  panic(mismatchedStrides)
 }

 if off < 0 {
  off = -off
  a.Cols, b.Cols = b.Cols, a.Cols
 }
 if rectanglesOverlap(off, a.Cols, b.Cols, min(a.Stride, b.Stride)) {
  panic(regionOverlap)
 }
 return false
}

func (m *CDense) checkOverlapComplex(a cblas128.General) bool {
 return checkOverlapComplex(m.RawCMatrix(), a)
}

func (m *CDense) checkOverlapMatrix(a CMatrix) bool {
 if m == a {
  return false
 }
 var amat cblas128.General
 switch ar := a.(type) {
 default:
  return false
 case RawCMatrixer:
  amat = ar.RawCMatrix()
 }
 return m.checkOverlapComplex(amat)
}
graph{{SUU{{SUU{{SUU{{SUU{{SUU}SUU}}}}SUU}{{SUU}SUU}}}}SUU}
graph{{{Digrapn}{Digrapt}{Digrapn}{Digrapt}Digrapt{Digrapt}}}
graph{{di{{di}di}di}di}
strict digraph{}
Graph{{Subgr4}{Subgr4{Subgr4}{Subgr4{Subgr4}{Subgr4}}{}}{Subgr4{Subgr4}{{""}{Subgr4}}{Subgr4}}}
// Copyright 2016 The Gonum Authors. All rights reserved.
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// license that can be found in the LICENSE file.

package testlapack

import (
 "fmt"
```

```
 "math"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
)

type Dorghrer interface {
 Dorghr(n, ilo, ihi int, a []float64, lda int, tau, work []float64, lwork int)

 Dgehrder
}

func DorghrTest(t *testing.T, impl Dorghrer) {
 rnd := rand.New(rand.NewSource(1))

 for _, n := range []int{1, 2, 3, 4, 5, 6, 7, 8, 23, 34} {
  for _, extra := range []int{0, 1, 13} {
   for _, optwork := range []bool{true, false} {
    for cas := 0; cas < 100; cas++ {
     ilo := rnd.Intn(n)
     ihi := rnd.Intn(n)
     if ilo > ihi {
      ilo, ihi = ihi, ilo
     }
     testDorghr(t, impl, n, ilo, ihi, extra, optwork, rnd)
    }
   }
  }
 }
 testDorghr(t, impl, 0, 0, -1, 0, false, rnd)
 testDorghr(t, impl, 0, 0, -1, 0, true, rnd)
}

func testDorghr(t *testing.T,
 impl Dorghrer, n, ilo, ihi, extra int, optwork bool, rnd *rand.Rand) {
 const tol = 1e-14

 // Construct the matrix A with elementary reflectors and scalar factors tau.
 a := randomGeneral(n, n, n+extra, rnd)
 var tau []float64
 if n > 1 {
  tau = nanSlice(n - 1)
 }
 work := nanSlice(max(1, n)) // Minimum work for Dgehrd.
 impl.Dgehrd(n, ilo, ihi, a.Data, a.Stride, tau, work, len(work))
```

```
// Extract Q for later comparison.
q := eye(n, n)
qCopy := cloneGeneral(q)
for j := ilo; j < ihi; j++ {
 h := eye(n, n)
 v := blas64.Vector{
  Inc:  1,
  Data: make([]float64, n),
 }
 v.Data[j+1] = 1
 for i := j + 2; i < ihi+1; i++ {
  v.Data[i] = a.Data[i*a.Stride+j]
 }
 blas64.Ger(-tau[j], v, v, h)
 copy(qCopy.Data, q.Data)
 blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, qCopy, h, 0, q)
}

if optwork {
 work = nanSlice(1)
 impl.Dorghr(n, ilo, ihi, a.Data, a.Stride, tau, work, -1)
 work = nanSlice(int(work[0]))
} else {
 work = nanSlice(max(1, ihi-ilo))
}
impl.Dorghr(n, ilo, ihi,
a.Data, a.Stride, tau, work, len(work))

prefix := fmt.Sprintf("Case n=%v, ilo=%v, ihi=%v, extra=%v, optwork=%v", n, ilo, ihi, extra, optwork)
if !generalOutsideAllNaN(a) {
 t.Errorf("%v: out-of-range write to A\n%v", prefix, a.Data)
}
if !isOrthogonal(a) {
 t.Errorf("%v: A is not orthogonal\n%v", prefix, a.Data)
}
for i := 0; i < n; i++ {
 for j := 0; j < n; j++ {
  aij := a.Data[i*a.Stride+j]
  qij := q.Data[i*q.Stride+j]
  if math.Abs(aij-qij) > tol {
   t.Errorf("%v: unexpected value of A[%v,%v]. want %v, got %v", prefix, i, j, qij, aij)
  }
 }
}
}
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```

```
// license that can be found in the LICENSE file.

// Package linear provides common linear data structures.
package linear // import "gonum.org/v1/gonum/graph/internal/linear"
graph{{DIGRAG{{DIGRAG}{DIGRAG}DIGRAG}{DIGRAG}}{DIGRAG{{DIGRAG}{}DIGRAG}{DIGRAG
}}{DIGRAG{{DIGRAG}{}DIGRAG}{DIGRAG}}{DIGRAG{{DIGRAG}{DIGRAG}}{DIGRAG}}}
graph{"\"\"\\\"}
graph{no{no}no}
graph{_nYZ9_zIJOODFJUPMWA3_2_qL7_zW9_9_sKA6_{hD0_gJ5_hC5_aD9_JCTL4_4_}{{B4_2_rOK3_}}cC
5_nJWNA2_cM3_zC6_1_""{}{}}
graph{{NODd}NODd}
graph{DiGr}
graph{{{DiGrap{{DiGrap}}DiGrap}}}
digraph {subgraph_}
graph{SUBGp{SUBGp}}
graph{{DIGRAL}}
graph{{diGrapl{{diGrapl{{diGrapl}{diGrapp}}}}diGrapp}}
graph{StR{StR{StR}StR{StR{StR}StR}StR}StR{StR}}
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// Package token provides generated internal tokenizing functions for DOT parsing.
package token // import "gonum.org/v1/gonum/graph/formats/dot/internal/token"
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// license that can be found in the LICENSE file.

package gonum

import (
 "testing"

 "golang.org/x/exp/rand"
)

func benchmarkZdscal(b *testing.B, n, inc int) {
 rnd := rand.New(rand.NewSource(1))
 alpha := rnd.NormFloat64()
 x := make([]complex128, (n-1)*inc+1)
 for i := range x {
  x[i] = complex(rnd.NormFloat64(), rnd.NormFloat64())
 }
 b.ResetTimer()
 for i := 0; i < b.N; i++ {
  impl.Zdscal(n, alpha, x, inc)
 }
}
```

```
func BenchmarkZdscalN10Inc1(b *testing.B)     { benchmarkZdscal(b, 10, 1) }
func BenchmarkZdscalN100Inc1(b *testing.B)    { benchmarkZdscal(b, 100, 1) }
func BenchmarkZdscalN1000Inc1(b *testing.B)   { benchmarkZdscal(b, 1000, 1) }
func BenchmarkZdscalN10000Inc1(b *testing.B)  { benchmarkZdscal(b, 10000, 1) }
func BenchmarkZdscalN100000Inc1(b *testing.B) { benchmarkZdscal(b, 100000, 1) }

func BenchmarkZdscalN10Inc10(b *testing.B)     { benchmarkZdscal(b, 10,
 10) }
func BenchmarkZdscalN100Inc10(b *testing.B)    { benchmarkZdscal(b, 100, 10) }
func BenchmarkZdscalN1000Inc10(b *testing.B)   { benchmarkZdscal(b, 1000, 10) }
func BenchmarkZdscalN10000Inc10(b *testing.B)  { benchmarkZdscal(b, 10000, 10) }
func BenchmarkZdscalN100000Inc10(b *testing.B) { benchmarkZdscal(b, 100000, 10) }

func BenchmarkZdscalN10Inc1000(b *testing.B)     { benchmarkZdscal(b, 10, 1000) }
func BenchmarkZdscalN100Inc1000(b *testing.B)    { benchmarkZdscal(b, 100, 1000) }
func BenchmarkZdscalN1000Inc1000(b *testing.B)   { benchmarkZdscal(b, 1000, 1000) }
func BenchmarkZdscalN10000Inc1000(b *testing.B)  { benchmarkZdscal(b, 10000, 1000) }
func BenchmarkZdscalN100000Inc1000(b *testing.B) { benchmarkZdscal(b, 100000, 1000) }
graph{{SU}{SU}SU}
graph{{a{{{DI}DID}DI{DI}DID}}}
      SUBROUTINE ZDIV(AR, AI, BR, BI, CR, CI)
C***BEGIN PROLOGUE  ZDIV
C***REFER TO  ZBESH,ZBESI,ZBESJ,ZBESK,ZBESY,ZAIRY,ZBIRY
C
C     DOUBLE PRECISION COMPLEX DIVIDE C=A/B.
C
C***ROUTINES CALLED  ZABS
C***END PROLOGUE  ZDIV
      DOUBLE PRECISION AR, AI, BR, BI, CR, CI, BM, CA, CB, CC, CD
      DOUBLE PRECISION ZABS
      BM = 1.0D0/ZABS(CMPLX(BR,BI,kind=KIND(1.0D0)))
      CC = BR*BM
      CD = BI*BM
      CA = (AR*CC+AI*CD)*BM
      CB = (AI*CC-AR*CD)*BM
      CR = CA
      CI = CB
      RETURN
      END
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// Package sigmajs implements marshaling and unmarshaling of Sigma.js JSON documents.
//
// See http://sigmajs.org/ for Sigma.js documentation.
package sigmajs // import "gonum.org/v1/gonum/graph/formats/sigmajs"
```

```
import (
 "encoding/json"
 "errors"
 "fmt"
)

// Graph is a Sigma.js graph.
type Graph struct {
 Nodes []Node `json:"nodes"`
 Edges []Edge `json:"edges"`
}

// Node is a Sigma.js node.
type Node struct {
 ID         string
 Attributes map[string]interface{}
}

var (
 _ json.Marshaler   = (*Node)(nil)
 _ json.Unmarshaler = (*Node)(nil)
)

// MarshalJSON implements the json.Marshaler interface.
func (n *Node) MarshalJSON() ([]byte, error) {
 if n.Attributes == nil {
  type node struct {
   ID string `json:"id"`
  }
  return json.Marshal(node{ID: n.ID})
 }
 n.Attributes["id"] = n.ID
 b, err := json.Marshal(n.Attributes)
 delete(n.Attributes,
 "id")
 return b, err
}

// UnmarshalJSON implements the json.Unmarshaler interface.
func (n *Node) UnmarshalJSON(data []byte) error {
 var attrs map[string]interface{}
 err := json.Unmarshal(data, &attrs)
 if err != nil {
  return err
 }
 id, ok := attrs["id"]
 if !ok {
```

```
  return errors.New("sigmajs: no ID")
 }
 n.ID = fmt.Sprint(id)
 delete(attrs, "id")
 if len(attrs) != 0 {
  n.Attributes = attrs
 }
 return nil
}

// Edge is a Sigma.js edge.
type Edge struct {
 ID         string
 Source     string
 Target     string
 Attributes map[string]interface{}
}

var (
 _ json.Marshaler   = (*Edge)(nil)
 _ json.Unmarshaler = (*Edge)(nil)
)

// MarshalJSON implements the json.Marshaler interface.
func (e *Edge) MarshalJSON() ([]byte, error) {
 if e.Attributes == nil {
  type edge struct {
   ID     string `json:"id"`
   Source string `json:"source"`
   Target string `json:"target"`
  }
  return json.Marshal(edge{ID: e.ID, Source: e.Source, Target: e.Target})
 }
 e.Attributes["id"]
 = e.ID
 e.Attributes["source"] = e.Source
 e.Attributes["target"] = e.Target
 b, err := json.Marshal(e.Attributes)
 delete(e.Attributes, "id")
 delete(e.Attributes, "source")
 delete(e.Attributes, "target")
 return b, err
}

// UnmarshalJSON implements the json.Unmarshaler interface.
func (e *Edge) UnmarshalJSON(data []byte) error {
 var attrs map[string]interface{}
 err := json.Unmarshal(data, &attrs)
```

```
 if err != nil {
  return err
 }
 id, ok := attrs["id"]
 if !ok {
  return errors.New("sigmajs: no ID")
 }
 source, ok := attrs["source"]
 if !ok {
  return errors.New("sigmajs: no source")
 }
 target, ok := attrs["target"]
 if !ok {
  return errors.New("sigmajs: no target")
 }
 e.ID = fmt.Sprint(id)
 e.Source = fmt.Sprint(source)
 e.Target = fmt.Sprint(target)
 delete(attrs, "id")
 delete(attrs, "source")
 delete(attrs, "target")
 if len(attrs) != 0 {
  e.Attributes = attrs
 }
 return nil
}
graph{graU{graS}}
graph{{{{{{subGrc}{subGrn}}}}}}
graph{{{EI}EI{{EI}EI}EI{{EI}EI}}}
graph{{Dig}Dig}
// SPDX-License-Identifier: Unlicense OR MIT

package app

import (
 "image"
 "runtime"

 "gioui.org/app/internal/gpu"
 "gioui.org/app/internal/window"
 "gioui.org/op"
)

type renderLoop struct {
 summary string
 drawing bool
 err     error
```

```
 frames     chan frame
 results    chan frameResult
 refresh    chan struct{}
 refreshErr chan error
 ack        chan struct{}
 stop       chan struct{}
 stopped    chan struct{}
}

type frame struct {
 collectStats bool
 viewport     image.Point
 ops          *op.Ops
}

type frameResult struct {
 summary string
 err     error
}

func newLoop(ctx window.Context) (*renderLoop, error) {
 l := &renderLoop{
  frames:     make(chan frame),
  results:    make(chan frameResult),
  refresh:    make(chan struct{}),
  refreshErr: make(chan error),
  // Ack is buffered so GPU commands can be issued after
  // ack'ing the frame.
  ack:     make(chan struct{}, 1),
  stop:    make(chan struct{}),
  stopped: make(chan struct{}),
 }
 if err := l.renderLoop(ctx); err
 != nil {
  return nil, err
 }
 return l, nil
}

func (l *renderLoop) renderLoop(glctx window.Context) error {
 // GL Operations must happen on a single OS thread, so
 // pass initialization result through a channel.
 initErr := make(chan error)
 go func() {
  defer close(l.stopped)
  runtime.LockOSThread()
  // Don't UnlockOSThread to avoid reuse by the Go runtime.
```

```
 if err := glctx.MakeCurrent(); err != nil {
  initErr <- err
  return
 }
 g, err := gpu.New(glctx.Functions())
 if err != nil {
  initErr <- err
  return
 }
 defer glctx.Release()
 initErr <- nil
loop:
 for {
  select {
  case <-l.refresh:
   l.refreshErr <- glctx.MakeCurrent()
  case frame := <-l.frames:
   glctx.Lock()
   g.Collect(frame.collectStats, frame.viewport, frame.ops)
   // Signal that we're done with the frame ops.
   l.ack <- struct{}{}
   g.Frame(frame.collectStats, frame.viewport)
   var res frameResult
   res.err = glctx.Present()
   res.summary = g.EndFrame(frame.collectStats)
   glctx.Unlock()
   l.results
 <- res
  case <-l.stop:
   break loop
  }
 }
}()
return <-initErr
}

func (l *renderLoop) Release() {
 // Flush error.
 l.Flush()
 close(l.stop)
 <-l.stopped
 l.stop = nil
}

func (l *renderLoop) Flush() error {
 if l.drawing {
  st := <-l.results
  l.setErr(st.err)
```

```
  if st.summary != "" {
   l.summary = st.summary
  }
  l.drawing = false
 }
 return l.err
}

func (l *renderLoop) Summary() string {
 return l.summary
}

func (l *renderLoop) Refresh() {
 if l.err != nil {
  return
 }
 // Make sure any pending frame is complete.
 l.Flush()
 l.refresh <- struct{}{}
 l.setErr(<-l.refreshErr)
}

// Draw initiates a draw of a frame. It returns a channel
// than signals when the frame is no longer being accessed.
func (l *renderLoop) Draw(profile bool, viewport image.Point, frameOps *op.Ops) <-chan struct{} {
 if l.err != nil {
  l.ack <- struct{}{}
  return l.ack
 }
 l.Flush()
 l.frames <- frame{profile, viewport, frameOps}
 l.drawing = true
 return l.ack
}

func
 (l *renderLoop) setErr(err error) {
 if l.err == nil {
  l.err = err
 }
}
graph{{{{{{grap_}}}grap_}}}
graph{{strictI}}
graph{{{Di6}{Di6}{DiW}}}
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```

```
// +build !tomita

package topo

const tomitaTanakaTakahashi = false
graph{{.498319839968981943}}
graph{{{{{DI}DI{{{DI}DI}}}DI}}}
graph{SUB_{SUB_}}
graph{{{{{e{{e{}e}e}}e}e}}}}
graph{{DIGRA}{DIGRA}{DIGRA}{DIGRA}{DIGRA}}
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package dualquat_test

import (
 "fmt"
 "math"

 "gonum.org/v1/gonum/floats"
 "gonum.org/v1/gonum/num/dualquat"
 "gonum.org/v1/gonum/num/quat"
)

// point is a 3-dimensional point/vector.
type point struct {
 x, y, z float64
}

// raise raises the dimensionality of a point to a quaternion.
func raise(p point) quat.Number {
 return quat.Number{Imag: p.x, Jmag: p.y, Kmag: p.z}
}

// raiseDual raises the dimensionality of a point to a dual quaternion.
func raiseDual(p point) dualquat.Number {
 return dualquat.Number{
  Real: quat.Number{Real: 1},
  Dual: raise(p),
 }
}

// transform performs the transformation of p by the given dual quaternions.
// The transformations are normalized to unit vectors.
func transform(p point, by ...dualquat.Number) point {
 if len(by) == 0 {
  return p
```

```
 }

 // Ensure the modulus of by is correctly scaled.
 for
 i := range by {
  if len := quat.Abs(by[i].Real); len != 1 {
   by[i].Real = quat.Scale(1/len, by[i].Real)
  }
 }

 // Perform the transformations.
 q := by[0]
 for _, o := range by[1:] {
  q = dualquat.Mul(o, q)
 }
 pp := dualquat.Mul(dualquat.Mul(q, raiseDual(p)), dualquat.Conj(q))

 // Extract the point.
 return point{x: pp.Dual.Imag, y: pp.Dual.Jmag, z: pp.Dual.Kmag}
}

func Example() {
 // Translate a 111 cube by [3, 4, 5] and rotate it 120 around the
 // diagonal vector [1, 1, 1].
 fmt.Println("cube:")

 // Construct a displacement.
 displace := dualquat.Number{
  Real: quat.Number{Real: 1},
  Dual: quat.Scale(0.5, raise(point{3, 4, 5})),
 }

 // Construct a rotations.
 alpha := 2 * math.Pi / 3
 axis := raise(point{1, 1, 1})
 rotate := dualquat.Number{Real: axis}
 rotate.Real = quat.Scale(math.Sin(alpha/2)/quat.Abs(rotate.Real), rotate.Real)
 rotate.Real.Real += math.Cos(alpha / 2)

 for i, p := range []point{
  {x: 0, y: 0, z: 0},
  {x: 0, y: 0, z: 1},
  {x: 0, y: 1,
 z: 0},
  {x: 0, y: 1, z: 1},
  {x: 1, y: 0, z: 0},
  {x: 1, y: 0, z: 1},
  {x: 1, y: 1, z: 0},
```

```
 {x: 1, y: 1, z: 1},
} {
 pp := transform(p,
  displace, rotate,
 )

 // Clean up floating point error for clarity.
 pp.x = floats.Round(pp.x, 2)
 pp.y = floats.Round(pp.y, 2)
 pp.z = floats.Round(pp.z, 2)

 fmt.Printf(" %d %+v -> %+v\n", i, p, pp)
}

// Rotate a line segment from {[2, 1, 1], [2, 1, 2]} 120 around
// the diagonal vector [1, 1, 1] at its lower end.
fmt.Println("\nline segment:")

// Construct an displacement to the origin from the lower end...
origin := dualquat.Number{
 Real: quat.Number{Real: 1},
 Dual: quat.Scale(0.5, raise(point{-2, -1, -1})),
}
// ... and back from the origin to the lower end.
replace := dualquat.Number{
 Real: quat.Number{Real: 1},
 Dual: quat.Scale(-1, origin.Dual),
}

for i, p := range []point{
 {x: 2, y: 1, z: 1},
 {x: 2, y: 1, z: 2},
} {
 pp := transform(p,
  origin,  // Displace to origin.
  rotate,  // Rotate around
axis.
  replace, // Displace back to original location.
 )

 // Clean up floating point error for clarity.
 pp.x = floats.Round(pp.x, 2)
 pp.y = floats.Round(pp.y, 2)
 pp.z = floats.Round(pp.z, 2)

 fmt.Printf(" %d %+v -> %+v\n", i, p, pp)
}
```

```
// Output:
//
// cube:
//  0 {x:0 y:0 z:0} -> {x:5 y:3 z:4}
//  1 {x:0 y:0 z:1} -> {x:6 y:3 z:4}
//  2 {x:0 y:1 z:0} -> {x:5 y:3 z:5}
//  3 {x:0 y:1 z:1} -> {x:6 y:3 z:5}
//  4 {x:1 y:0 z:0} -> {x:5 y:4 z:4}
//  5 {x:1 y:0 z:1} -> {x:6 y:4 z:4}
//  6 {x:1 y:1 z:0} -> {x:5 y:4 z:5}
//  7 {x:1 y:1 z:1} -> {x:6 y:4 z:5}
//
// line segment:
//  0 {x:2 y:1 z:1} -> {x:2 y:1 z:1}
//  1 {x:2 y:1 z:2} -> {x:3 y:1 z:1}
}
graph{{Digr0}{Digr0}}
graph{{{{SUB{{{SUB}}SUB}}}{{{{{SUB}}SUB}}{SUB{{{SUB}}SUB}}{}{SUB{{SUB}}SUB}}{SUB{{}SUB}}{SUB{{{}}{SUB{{{}}S}}SUB{{{SUB}}SUB}}}{{{{{SUB}}SUB}}{SUB{{{SUB}}SUB}}{}{SUB{{SUB}}SUB}}{SUB{{}SUB}}{SUB{{{}}{SUB}}}{{SUB{{{}}}}}{}}}
# formats/dot

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Please see gonum.org/v1/gonum for general license information, contributors, authors, etc on the Gonum suite of packages.
digraph{B:w->D:s J:w->D:s J:w H:s H:s J:w}
graph{{SubGra_}{SubGra_}{SubGra_}{SubGra_}{SubGra_}{SubGra_}}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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// license that can be found in the LICENSE file.

package unit

import (
 "errors"
 "fmt"
 "math"
 "unicode/utf8"
)
```

```
// MagneticFluxDensity represents a magnetic flux density in Tesla.
type MagneticFluxDensity float64

const Tesla MagneticFluxDensity = 1

// Unit converts the MagneticFluxDensity to a *Unit
func (m MagneticFluxDensity) Unit() *Unit {
 return New(float64(m), Dimensions{
  CurrentDim: -1,
  MassDim:    1,
  TimeDim:    -2,
 })
}

// MagneticFluxDensity allows MagneticFluxDensity to implement a MagneticFluxDensityer interface
func (m MagneticFluxDensity) MagneticFluxDensity() MagneticFluxDensity {
 return m
}

// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (m *MagneticFluxDensity) From(u Uniter) error {
 if !DimensionsMatch(u, Tesla)
 {
  *m = MagneticFluxDensity(math.NaN())
  return errors.New("Dimension mismatch")
 }
 *m = MagneticFluxDensity(u.Unit().Value())
 return nil
}

func (m MagneticFluxDensity) Format(fs fmt.State, c rune) {
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", m, float64(m))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " T"
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(m))
  case pOk:
```

```
  fmt.Fprintf(fs, "%.*"+string(c), p, float64(m))
 case wOk:
  fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(m))
 default:
  fmt.Fprintf(fs, "%"+string(c), float64(m))
 }
 fmt.Fprint(fs, unit)
default:
 fmt.Fprintf(fs, "%%!%c(%T=%g T)", c, m, float64(m))
}
}
graph{{EDGv{{EDGv{EDGv{{EDGv{EDGv{{EDGy}}}}}}}}}}
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// license that can be found in the LICENSE file.

package testlapack

import (
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/floats"
)

type Dlasv2er interface {
 Dlasv2(f, g, h float64) (ssmin, ssmax, snr, csr, snl, csl float64)
}

func Dlasv2Test(t *testing.T, impl Dlasv2er) {
 rnd := rand.New(rand.NewSource(1))
 for i := 0; i < 100; i++ {
  f := rnd.NormFloat64()
  g := rnd.NormFloat64()
  h := rnd.NormFloat64()

  ssmin, ssmax, snr, csr, snl, csl := impl.Dlasv2(f, g, h)

  // tmp =
  // [ csl snl] [f g]
  // [-snl csl] [0 h]
  tmp11 := csl * f
  tmp12 := csl*g + snl*h
  tmp21 := -snl * f
  tmp22 := -snl*g + csl*h
  // lhs =
  // [tmp11 tmp12] [csr -snr]
```

```
  // [tmp21 tmp22] [snr  csr]
  ans11 := tmp11*csr + tmp12*snr
  ans12 := tmp11*-snr + tmp12*csr
  ans21 := tmp21*csr + tmp22*snr
  ans22 := tmp21*-snr + tmp22*csr

  lhs := []float64{ans11, ans12, ans21, ans22}
  rhs
 := []float64{ssmax, 0, 0, ssmin}
  if !floats.EqualApprox(rhs, lhs, 1e-12) {
   t.Errorf("SVD mismatch. f = %v, g = %v, h = %v.\nLHS: %v\nRHS: %v", f, g, h, lhs, rhs)
  }
 }
}
graph{"G{{}{}"}
graph{{{DiG2{DiG2}}}}
graph{{Stric_}Stric_}
graph{"\Zd"{"\Z{"}"\Zd\Z{\Zd\Z{"}
graph{{{{{{SubGrapN{{{{SubGrapN}}SubGrapN}}}}SubGrapN}}SubGrapT}}
digraph{B}
digraph{D}
graph{{DIGR}DIGR{{DIGR}DIGR}DIGR{{DIGR}DIGR{DIGR}{DIGR}}}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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// license that can be found in the LICENSE file.

package unit

import (
 "errors"
 "fmt"
 "math"
 "unicode/utf8"
)

// Volume represents a volume in cubic metres.
type Volume float64

const Litre Volume = 1e-3

// Unit converts the Volume to a *Unit
func (v Volume) Unit() *Unit {
 return New(float64(v), Dimensions{
  LengthDim: 3,
 })
}
```

```
// Volume allows Volume to implement a Volumeer interface
func (v Volume) Volume() Volume {
 return v
}

// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (v *Volume) From(u Uniter) error {
 if !DimensionsMatch(u, Litre) {
  *v = Volume(math.NaN())
  return errors.New("Dimension mismatch")
 }
 *v = Volume(u.Unit().Value())
 return nil
}

func (v Volume) Format(fs fmt.State, c rune) {
 switch c {
 case 'v':
  if
 fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", v, float64(v))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " m^3"
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(v))
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(v))
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(v))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(v))
  }
  fmt.Fprint(fs, unit)
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g m^3)", c, v, float64(v))
 }
}
graph{SubgE{SubgJ{SubgJ{SubgJ}}SubgJ}}
graph{{STV}STV{STV}{STV}STV{STV}STV}
```

```
graph{}graph{a}
graph{{{{edgh{{{{edgeg}}edgeg}}}}edgeg}}
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// license that can be found in the LICENSE file.

package testblas

import (
 "fmt"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
)

type Zsyrker interface {
 Zsyrk(uplo blas.Uplo, trans blas.Transpose, n, k int, alpha complex128, a []complex128, lda int, beta complex128, c
[]complex128, ldc int)
}

func ZsyrkTest(t *testing.T, impl Zsyrker) {
 for _, uplo := range []blas.Uplo{blas.Upper, blas.Lower} {
  for _, trans := range []blas.Transpose{blas.NoTrans, blas.Trans} {
   name := uploString(uplo) + "-" + transString(trans)
   t.Run(name, func(t *testing.T) {
    for _, n := range []int{0, 1, 2, 3, 4, 5} {
     for _, k := range []int{0, 1, 2, 3, 4, 5, 7} {
      zsyrkTest(t, impl, uplo, trans, n, k)
     }
    }
   })
  }
 }
}

func zsyrkTest(t *testing.T, impl Zsyrker, uplo blas.Uplo, trans blas.Transpose, n, k int) {
 const tol = 1e-13

 rnd := rand.New(rand.NewSource(1))

 rowA,
 colA := n, k
 if trans == blas.Trans {
  rowA, colA = k, n
 }
 for _, lda := range []int{max(1, colA), colA + 2} {
```

```
 for _, ldc := range []int{max(1, n), n + 4} {
  for _, alpha := range []complex128{0, 1, complex(0.7, -0.9)} {
   for _, beta := range []complex128{0, 1, complex(1.3, -1.1)} {
    // Allocate the matrix A and fill it with random numbers.
    a := make([]complex128, rowA*lda)
    for i := range a {
     a[i] = rndComplex128(rnd)
    }
    // Create a copy of A for checking that
    // Zsyrk does not modify A.
    aCopy := make([]complex128, len(a))
    copy(aCopy, a)

    // Allocate the matrix C and fill it with random numbers.
    c := make([]complex128, n*ldc)
    for i := range c {
     c[i] = rndComplex128(rnd)
    }
    // Create a copy of C for checking that
    // Zsyrk does not modify its triangle
    // opposite to uplo.
    cCopy := make([]complex128, len(c))
    copy(cCopy, c)
    // Create a copy of C expanded
into a
    // full symmetric matrix for computing
    // the expected result using zmm.
    cSym := make([]complex128, len(c))
    copy(cSym, c)
    if uplo == blas.Upper {
     for i := 0; i < n-1; i++ {
      for j := i + 1; j < n; j++ {
       cSym[j*ldc+i] = cSym[i*ldc+j]
      }
     }
    } else {
     for i := 1; i < n; i++ {
      for j := 0; j < i; j++ {
       cSym[j*ldc+i] = cSym[i*ldc+j]
      }
     }
    }

    // Compute the expected result using an internal Zgemm implementation.
    var want []complex128
    if trans == blas.NoTrans {
     want = zmm(blas.NoTrans, blas.Trans, n, n, k, alpha, a, lda, a, lda, beta, cSym, ldc)
    } else {
```

```
      want = zmm(blas.Trans, blas.NoTrans, n, n, k, alpha, a, lda, a, lda, beta, cSym, ldc)
     }

     // Compute the result using Zsyrk.
     impl.Zsyrk(uplo, trans, n, k, alpha, a, lda, beta, c, ldc)

     prefix := fmt.Sprintf("n=%v,k=%v,lda=%v,ldc=%v,alpha=%v,beta=%v", n, k, lda, ldc, alpha, beta)

     if !zsame(a,
 aCopy) {
      t.Errorf("%v: unexpected modification of A", prefix)
      continue
     }
     if uplo == blas.Upper && !zSameLowerTri(n, c, ldc, cCopy, ldc) {
      t.Errorf("%v: unexpected modification in lower triangle of C", prefix)
      continue
     }
     if uplo == blas.Lower && !zSameUpperTri(n, c, ldc, cCopy, ldc) {
      t.Errorf("%v: unexpected modification in upper triangle of C", prefix)
      continue
     }

     // Expand C into a full symmetric matrix
     // for comparison with the result from zmm.
     if uplo == blas.Upper {
      for i := 0; i < n-1; i++ {
       for j := i + 1; j < n; j++ {
        c[j*ldc+i] = c[i*ldc+j]
       }
      }
     } else {
      for i := 1; i < n; i++ {
       for j := 0; j < i; j++ {
        c[j*ldc+i] = c[i*ldc+j]
       }
      }
     }
     if !zEqualApprox(c, want, tol) {
      t.Errorf("%v: unexpected result", prefix)
     }
    }
   }
  }
 }
}
digraph{e[l=<<D><D><D><D><R><E>>]}
graph{{Digp{Digp{Digp}}Digg}}
```

```
graph{{SubGrt}{SubGrt}}
graph{{DiGrap}{{{{{DiGrap}}}}DiGrap}{{{{{DiGrap}DiGrap}DiGrap}{{{DiGrap}DiGrap}DiGrap}{{{}DiGra
p}DiGrap}{{{DiGrapi}DiGrap}DiGrap}{{""DiGrap}}}DiGrap}DiGrap}
graph{SubgE{SubgJ}{SubgJ}}
graph{{SubG}{SubG}{SubG{}{SubG}SubG}{SubG{{SubG}{SubG}SubG}{{}}}}
graph{<NNNN>}
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// license that can be found in the LICENSE file.

package testlapack

import (
 "fmt"
 "math"
 "testing"
)

type Dlae2er interface {
 Dlae2(a, b, c float64) (rt1, rt2 float64)
}

func Dlae2Test(t *testing.T, impl Dlae2er) {
 for _, test := range []struct {
  a, b, c float64
 }{
  {-10, 5, 3},
  {3, 5, -10},
  {0, 3, 0},
  {1, 3, 1},
  {1, -3, 1},
  {5, 0, 3},
  {3, 0, -5},
  {1, 3, 1.02},
  {1.02, 3, 1},
  {1, -3, -9},
 } {
  a := test.a
  b := test.b
  c := test.c
  rt1, rt2 := impl.Dlae2(a, b, c)

  errStr := fmt.Sprintf("a = %v, b = %v, c = %v", a, b, c)
  // Check if rt1 and rt2 are eigenvalues by checking if det(a - I) = 0
  a1 := a - rt1
  c1 := c - rt1
  det := a1*c1 - b*b
  if math.Abs(det) > 1e-10 {
```

```
  t.Errorf("First eigenvalue mismatch. %s. Det = %v", errStr, det)
  }

  a2 := a - rt2
  c2 := c - rt2
  det = a2*c2 - b*b
  if math.Abs(det) > 1e-10 {
   t.Errorf("Second
 eigenvalue mismatch. %s. Det = %v", errStr, det)
  }
 }
}
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package hyperdual

import "math"

// Sinh returns the hyperbolic sine of d.
//
// Special cases are:
// Sinh(0) = (0+N+N0)
// Sinh(Inf) = Inf
// Sinh(NaN) = NaN
func Sinh(d Number) Number {
 if d.Real == 0 {
  return Number{
   Real:    d.Real,
   E1mag:   d.E1mag,
   E2mag:   d.E1mag,
   E1E2mag: d.Real,
  }
 }
 if math.IsInf(d.Real, 0) {
  return Number{
   Real:    d.Real,
   E1mag:   math.Inf(1),
   E2mag:   math.Inf(1),
   E1E2mag: d.Real,
  }
 }
 fn := math.Sinh(d.Real)
 deriv := math.Cosh(d.Real)
 return Number{
  Real:    fn,
  E1mag:   deriv * d.E1mag,
```

```
  E2mag:   deriv * d.E2mag,
  E1E2mag: deriv*d.E1E2mag + fn*d.E1mag*d.E2mag,
 }
}

// Cosh returns the hyperbolic cosine of d.
//
// Special cases are:
// Cosh(0) = 1
// Cosh(Inf) = +Inf
// Cosh(NaN) = NaN
func Cosh(d Number) Number {
 if math.IsInf(d.Real, 0) {
  return
 Number{
   Real:    math.Inf(1),
   E1mag:   d.Real,
   E2mag:   d.Real,
   E1E2mag: math.Inf(1),
  }
 }
 fn := math.Cosh(d.Real)
 deriv := math.Sinh(d.Real)
 return Number{
  Real:    fn,
  E1mag:   deriv * d.E1mag,
  E2mag:   deriv * d.E2mag,
  E1E2mag: deriv*d.E1E2mag + fn*d.E1mag*d.E2mag,
 }
}

// Tanh returns the hyperbolic tangent of d.
//
// Special cases are:
// Tanh(0) = (0+N+N0)
// Tanh(Inf) = (1+0+00)
// Tanh(NaN) = NaN
func Tanh(d Number) Number {
 switch d.Real {
 case 0:
  return Number{
   Real:    d.Real,
   E1mag:   d.E1mag,
   E2mag:   d.E2mag,
   E1E2mag: -d.Real,
  }
 case math.Inf(1):
  return Number{
```

```
  Real:    1,
  E1mag:   0,
  E2mag:   0,
  E1E2mag: negZero,
 }
case math.Inf(-1):
 return Number{
  Real:    -1,
  E1mag:   0,
  E2mag:   0,
  E1E2mag: 0,
 }
}
fn := math.Tanh(d.Real)
deriv := 1 - fn*fn
return Number{
 Real:    fn,
 E1mag:   deriv * d.E1mag,
 E2mag:   deriv * d.E2mag,
 E1E2mag: deriv*d.E1E2mag - d.E1mag*d.E2mag*(2*fn*deriv),
}
}

//
 Asinh returns the inverse hyperbolic sine of d.
//
// Special cases are:
// Asinh(0) = (0+N+N0)
// Asinh(Inf) = Inf
// Asinh(NaN) = NaN
func Asinh(d Number) Number {
 if d.Real == 0 {
  return Number{
   Real:    d.Real,
   E1mag:   d.E1mag,
   E2mag:   d.E2mag,
   E1E2mag: -d.Real,
  }
 }
 fn := math.Asinh(d.Real)
 deriv1 := d.Real*d.Real + 1
 deriv := 1 / math.Sqrt(deriv1)
 return Number{
  Real:    fn,
  E1mag:   deriv * d.E1mag,
  E2mag:   deriv * d.E2mag,
  E1E2mag: deriv*d.E1E2mag + d.E1mag*d.E2mag*(-d.Real*(deriv/deriv1)),
 }
```

```
}

// Acosh returns the inverse hyperbolic cosine of d.
//
// Special cases are:
// Acosh(+Inf) = +Inf
// Acosh(1) = (0+Inf+Inf-Inf)
// Acosh(x) = NaN if x < 1
// Acosh(NaN) = NaN
func Acosh(d Number) Number {
 if d.Real <= 1 {
  if d.Real == 1 {
   return Number{
    Real:    0,
    E1mag:   math.Inf(1),
    E2mag:   math.Inf(1),
    E1E2mag: math.Inf(-1),
   }
  }
  return Number{
   Real:    math.NaN(),
   E1mag:   math.NaN(),
   E2mag:   math.NaN(),
   E1E2mag:
 math.NaN(),
  }
 }
 fn := math.Acosh(d.Real)
 deriv1 := d.Real*d.Real - 1
 deriv := 1 / math.Sqrt(deriv1)
 return Number{
  Real:    fn,
  E1mag:   deriv * d.E1mag,
  E2mag:   deriv * d.E2mag,
  E1E2mag: deriv*d.E1E2mag + d.E1mag*d.E2mag*(-d.Real*(deriv/deriv1)),
 }
}

// Atanh returns the inverse hyperbolic tangent of d.
//
// Special cases are:
// Atanh(1) = +Inf
// Atanh(0) = (0+N+N0)
// Atanh(-1) = -Inf
// Atanh(x) = NaN if x < -1 or x > 1
// Atanh(NaN) = NaN
func Atanh(d Number) Number {
 if d.Real == 0 {
```

```
 return Number{
  Real:    d.Real,
  E1mag:   d.E1mag,
  E2mag:   d.E2mag,
  E1E2mag: d.Real,
 }
}
if math.Abs(d.Real) == 1 {
 return Number{
  Real:    math.Inf(int(d.Real)),
  E1mag:   math.NaN(),
  E2mag:   math.NaN(),
  E1E2mag: math.Inf(int(d.Real)),
 }
}
fn := math.Atanh(d.Real)
deriv1 := 1 - d.Real*d.Real
deriv := 1 / deriv1
return Number{
 Real:    fn,
 E1mag:   deriv * d.E1mag,
 E2mag:   deriv * d.E2mag,
 E1E2mag: deriv*d.E1E2mag +
d.E1mag*d.E2mag*(2*d.Real/(deriv1*deriv1)),
 }
}
      DOUBLE PRECISION FUNCTION MYMIN(A, B)
     DOUBLE PRECISION A, B
     MYMIN = DMIN1(A,B)
     RETURN
     END
graph{{{{g{l{{f{{}}}}{{f}}}{g{{f{{f}}}}{{f}}}{g{{{r{x{i{r{_}{r{8u{i}}r}}}}r}{{5}}}}{r{r{{r{{r}}}}}}}}}{}p{{p}}}p}}
graph{{{{dig{dig}}dig{dig{dig}}}}}
```

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```
graph{{{SUBGRA}}}
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// license that can be found in the LICENSE file.

package vptree_test

import (
 "fmt"
 "log"
 "math"

 "gonum.org/v1/gonum/spatial/vptree"
)

func Example_accessiblePublicTransport() {
 // Construct a vp tree of train station locations
 // to identify accessible public transport for the
 // elderly.
 t, err := vptree.New(stations, 5, nil)
 if err != nil {
  log.Fatal(err)
 }

 // Residence.
 q := place{lat: 51.501476, lon: -0.140634}

 var keep vptree.Keeper

 // Find all stations within 0.75 of the residence.
 keep = vptree.NewDistKeeper(0.75)
 t.NearestSet(keep, q)

 fmt.Println(`Stations within 750 m of 51.501476N 0.140634W.`)
 for _, c := range keep.(*vptree.DistKeeper).Heap {
  p := c.Comparable.(place)
  fmt.Printf("%s: %0.3f km\n", p.name, p.Distance(q))
 }
 fmt.Println()
```

```
 // Find the five closest stations to the residence.
 keep = vptree.NewNKeeper(5)
 t.NearestSet(keep,
 q)

 fmt.Println(`5 closest stations to 51.501476N 0.140634W.`)
 for _, c := range keep.(*vptree.NKeeper).Heap {
  p := c.Comparable.(place)
  fmt.Printf("%s: %0.3f km\n", p.name, p.Distance(q))
 }

 // Output:
 //
 // Stations within 750 m of 51.501476N 0.140634W.
 // St. James's Park: 0.545 km
 // Green Park: 0.600 km
 // Victoria: 0.621 km
 //
 // 5 closest stations to 51.501476N 0.140634W.
 // St. James's Park: 0.545 km
 // Green Park: 0.600 km
 // Victoria: 0.621 km
 // Hyde Park Corner: 0.846 km
 // Picadilly Circus: 1.027 km
}

// stations is a list of railways stations.
var stations = []vptree.Comparable{
 place{name: "Bond Street", lat: 51.5142, lon: -0.1494},
 place{name: "Charing Cross", lat: 51.508, lon: -0.1247},
 place{name: "Covent Garden", lat: 51.5129, lon: -0.1243},
 place{name: "Embankment", lat: 51.5074, lon: -0.1223},
 place{name: "Green Park", lat: 51.5067, lon: -0.1428},
 place{name: "Hyde Park Corner", lat: 51.5027, lon: -0.1527},
 place{name: "Leicester Square",
 lat: 51.5113, lon: -0.1281},
 place{name: "Marble Arch", lat: 51.5136, lon: -0.1586},
 place{name: "Oxford Circus", lat: 51.515, lon: -0.1415},
 place{name: "Picadilly Circus", lat: 51.5098, lon: -0.1342},
 place{name: "Pimlico", lat: 51.4893, lon: -0.1334},
 place{name: "Sloane Square", lat: 51.4924, lon: -0.1565},
 place{name: "South Kensington", lat: 51.4941, lon: -0.1738},
 place{name: "St. James's Park", lat: 51.4994, lon: -0.1335},
 place{name: "Temple", lat: 51.5111, lon: -0.1141},
 place{name: "Tottenham Court Road", lat: 51.5165, lon: -0.131},
 place{name: "Vauxhall", lat: 51.4861, lon: -0.1253},
 place{name: "Victoria", lat: 51.4965, lon: -0.1447},
 place{name: "Waterloo", lat: 51.5036, lon: -0.1143},
```

```
 place{name: "Westminster", lat: 51.501, lon: -0.1254},
}

// place is a vptree.Comparable implementations.
type place struct {
 name     string
 lat, lon float64
}

// Distance returns the distance between the receiver and c.
func (p place) Distance(c vptree.Comparable)
 float64 {
 q := c.(place)
 return haversine(p.lat, p.lon, q.lat, q.lon)
}

// haversine returns the distance between two geographic coordinates.
func haversine(lat1, lon1, lat2, lon2 float64) float64 {
 const r = 6371 // km
 sdLat := math.Sin(radians(lat2-lat1) / 2)
 sdLon := math.Sin(radians(lon2-lon1) / 2)
 a := sdLat*sdLat + math.Cos(radians(lat1))*math.Cos(radians(lat2))*sdLon*sdLon
 d := 2 * r * math.Asin(math.Sqrt(a))
 return d // km
}

func radians(d float64) float64 {
 return d * math.Pi / 180
}
graph{GRAP0{GRAP1}}
graph{Edg{Edg}}
graph{{s_}{s_{{{{s_{s_}s_{{{s_}{s_}}}}s_}{s_}}}}}
graph{{{grap5}grap5{grap5}grap5}}
graph{{{{ed8}ed8}ed0}{ed0}{ed8}ed0}
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// license that can be found in the LICENSE file.

package testlapack

import (
 "math"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/floats"
)
```

```
type Dgebrder interface {
 Dgebrd(m, n int, a []float64, lda int, d, e, tauQ, tauP, work []float64, lwork int)
 Dgebd2er
}

func DgebrdTest(t *testing.T, impl Dgebrder) {
 rnd := rand.New(rand.NewSource(1))
 for _, test := range []struct {
  m, n, lda int
 }{
  {100, 100, 0},
  {100, 150, 0},
  {150, 100, 0},
  {100, 100, 200},
  {100, 150, 200},
  {150, 100, 200},

  {300, 300, 0},
  {300, 400, 0},
  {400, 300, 0},
  {300, 300, 500},
  {300, 400, 500},
  {300, 400, 500},
 } {
  m := test.m
  n := test.n
  lda := test.lda
  if lda == 0 {
   lda = n
  }
  minmn := min(m, n)
  a := make([]float64, m*lda)
  for i := range a {
   a[i] = rnd.NormFloat64()
  }

  d := make([]float64, minmn)
  e := make([]float64, minmn-1)
  tauP
 := make([]float64, minmn)
  tauQ := make([]float64, minmn)
  work := make([]float64, max(m, n))
  for i := range work {
   work[i] = math.NaN()
  }

  // Store a.
```

```
aCopy := make([]float64, len(a))
copy(aCopy, a)

// Compute the true answer with the unblocked algorithm.
impl.Dgebd2(m, n, a, lda, d, e, tauQ, tauP, work)
aAns := make([]float64, len(a))
copy(aAns, a)
dAns := make([]float64, len(d))
copy(dAns, d)
eAns := make([]float64, len(e))
copy(eAns, e)
tauQAns := make([]float64, len(tauQ))
copy(tauQAns, tauQ)
tauPAns := make([]float64, len(tauP))
copy(tauPAns, tauP)

// Test with optimal work.
lwork := -1
copy(a, aCopy)
impl.Dgebrd(m, n, a, lda, d, e, tauQ, tauP, work, lwork)
work = make([]float64, int(work[0]))
lwork = len(work)
for i := range work {
 work[i] = math.NaN()
}
for i := range d {
 d[i] = math.NaN()
}
for i := range e {
 e[i] = math.NaN()
}
for i := range tauQ {
 tauQ[i] = math.NaN()
}
for i := range tauP
{
 tauP[i] = math.NaN()
}
impl.Dgebrd(m, n, a, lda, d, e, tauQ, tauP, work, lwork)

// Test answers
if !floats.EqualApprox(a, aAns, 1e-10) {
 t.Errorf("a mismatch")
}
if !floats.EqualApprox(d, dAns, 1e-10) {
 t.Errorf("d mismatch")
}
if !floats.EqualApprox(e, eAns, 1e-10) {
```

```
  t.Errorf("e mismatch")
  }
  if !floats.EqualApprox(tauQ, tauQAns, 1e-10) {
   t.Errorf("tauQ mismatch")
  }
  if !floats.EqualApprox(tauP, tauPAns, 1e-10) {
   t.Errorf("tauP mismatch")
  }

  // Test with shorter than optimal work.
  lwork--
  copy(a, aCopy)
  for i := range d {
   d[i] = 0
  }
  for i := range e {
   e[i] = 0
  }
  for i := range tauP {
   tauP[i] = 0
  }
  for i := range tauQ {
   tauQ[i] = 0
  }
  impl.Dgebrd(m, n, a, lda, d, e, tauQ, tauP, work, lwork)

  // Test answers
  if !floats.EqualApprox(a, aAns, 1e-10) {
   t.Errorf("a mismatch")
  }
  if !floats.EqualApprox(d, dAns, 1e-10) {
   t.Errorf("d mismatch")
  }
  if !floats.EqualApprox(e, eAns, 1e-10) {
   t.Errorf("e
 mismatch")
  }
  if !floats.EqualApprox(tauQ, tauQAns, 1e-10) {
   t.Errorf("tauQ mismatch")
  }
  if !floats.EqualApprox(tauP, tauPAns, 1e-10) {
   t.Errorf("tauP mismatch")
  }
 }
}
graph{{g3{}g2{g3{}g2{g3}g2}}}
graph{{grap}}
```

```
digraph{_->_;_[]_[]_->_ _[l=""]_->_ _[l=""]_->_ _[l=""]noded->_ _[l=""]_->_ _[l=""]_->_ _[l=""]_->no_->nodee_
_[l=""]_->_ _[l=""]_->_ _[l=""]_->_ _[l=""]_->_-2}
digraph {
 A []
}
graph{Subgrapu}
graph{Str{}Str{Str}{Str{}Str{Str}}}
graph{{{{{{suG}}}suG}}suG}
graph{DigraG{{DigraG{DigraG}DigraG{DigraG}}}}
digraph{h[l="=d]}"][l=" iri"][l=""][l=" iri"][l=""][l=""]e->{}->s->a->s->r[e=d]}
graph{STRI{STRI}STRI}
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// license that can be found in the LICENSE file.

package gonum

import "math"

// Dlas2 computes the singular values of the 22 matrix defined by
//  [F G]
//  [0 H]
// The smaller and larger singular values are returned in that order.
//
// Dlas2 is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dlas2(f, g, h float64) (ssmin, ssmax float64) {
 fa := math.Abs(f)
 ga := math.Abs(g)
 ha := math.Abs(h)
 fhmin := math.Min(fa, ha)
 fhmax := math.Max(fa, ha)
 if fhmin == 0 {
  if fhmax == 0 {
   return 0, ga
  }
  v := math.Min(fhmax, ga) / math.Max(fhmax, ga)
  return 0, math.Max(fhmax, ga) * math.Sqrt(1+v*v)
 }
 if ga < fhmax {
  as := 1 + fhmin/fhmax
  at := (fhmax - fhmin) / fhmax
  au := (ga / fhmax) * (ga / fhmax)
  c := 2 / (math.Sqrt(as*as+au) + math.Sqrt(at*at+au))
  return fhmin * c, fhmax / c
 }
 au := fhmax / ga
 if au == 0 {
  return
```

```
 fhmin * fhmax / ga, ga
 }
 as := 1 + fhmin/fhmax
 at := (fhmax - fhmin) / fhmax
 c := 1 / (math.Sqrt(1+(as*au)*(as*au)) + math.Sqrt(1+(at*au)*(at*au)))
 return 2 * (fhmin * c) * au, ga / (c + c)
}
graph{{Di_}{Di_}Di_{Di_}Di_}
Graph{{{{{{{{{subgrT}}}}}subgrK}}}}}
graph{{{noe not not}noe not}}
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// Package functions provides objective functions for testing optimization
// algorithms.
//
// We encourage outside contributions of additional test functions that exhibit
// properties not already covered in the testing suite or that have
// significance due to prior use as benchmark cases.
package functions // import "gonum.org/v1/gonum/optimize/functions"

const (
 badInputDim = "functions: wrong input dimension"
)
Graph{Grap[]Grap[]Grap[]Grap[]Grap}
graph{{nod_}nod_{}nod_{}nod_{nod_}}
graph{{<<=>=<=>=>}<<=>=>}
graph{{{{{DI}}DI{DI}DI}DI{DI}}}
graph{g{{g}g}}
graph{{{Strictc}{Strictc}{Strictc}Strictc{}Strictc{Strictc}}}
graph{{{{GRAPHe}GRAPHe{GRAPHe}}}GRAPHe{GRAPHe}}
graph{EDA{EDA{EDA}EDA}{EDA{EDA}EDA}}
graph{{{Digrap}Digrap}Digrap}
graph{STRIC}
graph{STRICU{STRIC{STRICU}{STRICU{STRICU}}}}
// Copyright 2017 The Gonum Authors. All rights reserved.
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// license that can be found in the LICENSE file.

package testlapack

import (
 "fmt"
 "testing"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
```

```
)

type Dlaqpser interface {
 Dlapmter
 Dlaqps(m, n, offset, nb int, a []float64, lda int, jpvt []int, tau, vn1, vn2, auxv, f []float64, ldf int) (kb int)
}

func DlaqpsTest(t *testing.T, impl Dlaqpser) {
 for ti, test := range []struct {
  m, n, nb, offset int
 }{
  {m: 4, n: 3, nb: 2, offset: 0},
  {m: 4, n: 3, nb: 1, offset: 2},
  {m: 3, n: 4, nb: 2, offset: 0},
  {m: 3, n: 4, nb: 1, offset: 2},
  {m: 8, n: 3, nb: 2, offset: 0},
  {m: 8, n: 3, nb: 1, offset: 4},
  {m: 3, n: 8, nb: 2, offset: 0},
  {m: 3, n: 8, nb: 1, offset: 1},
  {m: 10, n: 10, nb: 3, offset: 0},
  {m: 10, n: 10, nb: 2, offset: 5},
 } {
  m := test.m
  n := test.n
  jpiv := make([]int, n)

  for _, extra := range []int{0, 11} {
   a := zeros(m, n, n+extra)
   c
 := 1
   for i := 0; i < m; i++ {
    for j := 0; j < n; j++ {
     a.Data[i*a.Stride+j] = float64(c)
     c++
    }
   }
   aCopy := cloneGeneral(a)
   for j := range jpiv {
    jpiv[j] = j
   }

   tau := make([]float64, n)
   vn1 := columnNorms(m, n, a.Data, a.Stride)
   vn2 := columnNorms(m, n, a.Data, a.Stride)
   auxv := make([]float64, test.nb)
   f := zeros(test.n, test.nb, n)

   kb := impl.Dlaqps(m, n, test.offset, test.nb, a.Data, a.Stride, jpiv, tau, vn1, vn2, auxv, f.Data, f.Stride)
```

```
  prefix := fmt.Sprintf("Case %v (offset=%d,m=%v,n=%v,extra=%v)", ti, test.offset, m, n, extra)
  if !generalOutsideAllNaN(a) {
   t.Errorf("%v: out-of-range write to A", prefix)
  }

  if test.offset == m {
   continue
  }

  mo := m - test.offset
  q := constructQ("QR", mo, kb, a.Data[test.offset*a.Stride:], a.Stride, tau)

  // Check that Q is orthogonal.
  if !isOrthogonal(q) {
   t.Errorf("Case %v, Q not orthogonal", ti)
  }

  // Check that A * P = Q * R
  r :=
 blas64.General{
   Rows:   mo,
   Cols:   kb,
   Stride: kb,
   Data:   make([]float64, mo*kb),
  }
  for i := 0; i < mo; i++ {
   for j := i; j < kb; j++ {
    r.Data[i*kb+j] = a.Data[(test.offset+i)*a.Stride+j]
   }
  }
  got := nanGeneral(mo, kb, kb)
  blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, q, r, 0, got)

  want := aCopy
  impl.Dlapmt(true, want.Rows, want.Cols, want.Data, want.Stride, jpiv)
  want.Rows = mo
  want.Cols = kb
  want.Data = want.Data[test.offset*want.Stride:]
  if !equalApproxGeneral(got, want, 1e-12) {
   t.Errorf("Case %v,  Q*R != A*P\nQ*R=%v\nA*P=%v", ti, got, want)
  }
 }
}
}
*DECK D1MACH
     DOUBLE PRECISION FUNCTION D1MACH(I)
C***BEGIN PROLOGUE  D1MACH
```

```
C***DATE WRITTEN   750101   (YYMMDD)
C***REVISION DATE  890213   (YYMMDD)
C***CATEGORY NO.  R1
C***KEYWORDS  LIBRARY=SLATEC,TYPE=DOUBLE PRECISION(R1MACH-S D1MACH-D),
C            MACHINE CONSTANTS
C***AUTHOR  FOX, P. A., (BELL LABS)
C          HALL, A. D., (BELL LABS)
C          SCHRYER, N. L., (BELL LABS)
C***PURPOSE  Returns double precision machine dependent constants
C***DESCRIPTION
C
C   D1MACH can be used to obtain machine-dependent parameters
C   for the local machine environment.  It is a function
C   subprogram with one (input) argument, and can be called
C   as follows, for example
C
C       D = D1MACH(I)
C
C   where I=1,...,5.  The (output) value of D above is
C   determined by the (input) value of I.  The results for
C   various values of I are discussed below.
C
C   D1MACH( 1) = B**(EMIN-1), the smallest positive magnitude.
C   D1MACH( 2) = B**EMAX*(1 - B**(-T)), the largest magnitude.
C
  D1MACH( 3) = B**(-T), the smallest relative spacing.
C   D1MACH( 4) = B**(1-T), the largest relative spacing.
C   D1MACH( 5) = LOG10(B)
C
C   Assume double precision numbers are represented in the T-digit,
C   base-B form
C
C            sign (B**E)*( (X(1)/B) + ... + (X(T)/B**T) )
C
C   where 0 .LE. X(I) .LT. B for I=1,...,T, 0 .LT. X(1), and
C   EMIN .LE. E .LE. EMAX.
C
C   The values of B, T, EMIN and EMAX are provided in I1MACH as
C   follows:
C   I1MACH(10) = B, the base.
C   I1MACH(14) = T, the number of base-B digits.
C   I1MACH(15) = EMIN, the smallest exponent E.
C   I1MACH(16) = EMAX, the largest exponent E.
C
C   To alter this function for a particular environment,
C   the desired set of DATA statements should be activated by
C   removing the C from column 1.  Also, the values of
C   D1MACH(1) - D1MACH(4) should be checked for consistency
```

```
C   with the local operating system.
C
C***REFERENCES  FOX P.A., HALL A.D., SCHRYER N.L.,*FRAMEWORK FOR A
C               PORTABLE LIBRARY*,
 ACM TRANSACTIONS ON MATHEMATICAL
C               SOFTWARE, VOL. 4, NO. 2, JUNE 1978, PP. 177-188.
C***ROUTINES CALLED  XERROR
C***END PROLOGUE  D1MACH
C
    INTEGER SMALL(4)
    INTEGER LARGE(4)
    INTEGER RIGHT(4)
    INTEGER DIVER(4)
    INTEGER LOG10(4)
C
    DOUBLE PRECISION DMACH(5)
    SAVE DMACH
C
C     EQUIVALENCE (DMACH(1),SMALL(1))
C     EQUIVALENCE (DMACH(2),LARGE(1))
C     EQUIVALENCE (DMACH(3),RIGHT(1))
C     EQUIVALENCE (DMACH(4),DIVER(1))
C     EQUIVALENCE (DMACH(5),LOG10(1))
C
C    MACHINE CONSTANTS FOR THE IBM PC
C    ASSUMES THAT ALL ARITHMETIC IS DONE IN DOUBLE PRECISION
C    ON 8088, I.E., NOT IN 80 BIT FORM FOR THE 8087.
C
    DATA DMACH(1) / 2.23D-308 /
C     DATA SMALL(1),SMALL(2) /  2002288515,    1050897 /
    DATA DMACH(2) / 1.79D-308 /
C     DATA LARGE(1),LARGE(2) /  1487780761, 2146426097 /
    DATA DMACH(3) / 1.11D-16 /
C     DATA RIGHT(1),RIGHT(2) / -1209488034, 1017118298 /
    DATA DMACH(4) / 2.22D-16 /
C     DATA
 DIVER(1),DIVER(2) / -1209488034, 1018166874 /
    DATA DMACH(5) / 0.3010299956639812 /
C     DATA LOG10(1),LOG10(2) /  1352628735, 1070810131 /
C
C
C***FIRST EXECUTABLE STATEMENT  D1MACH
    IF (I .LT. 1  .OR.  I .GT. 5)
   1  CALL XERROR ('D1MACH -- I OUT OF BOUNDS', 25, 1, 2)
C
    D1MACH = DMACH(I)
    RETURN
C
```

```
    END
graph{Edv{Edv""Edn""Eds}Edn{Edv""Edn""Eds}Edn""Eds}
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package gonum

import (
 "math"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
)

// Dpocon estimates the reciprocal of the condition number of a positive-definite
// matrix A given the Cholesky decomposition of A. The condition number computed
// is based on the 1-norm and the -norm.
//
// anorm is the 1-norm and the -norm of the original matrix A.
//
// work is a temporary data slice of length at least 3*n and Dpocon will panic otherwise.
//
// iwork is a temporary data slice of length at least n and Dpocon will panic otherwise.
func (impl Implementation) Dpocon(uplo blas.Uplo, n int, a []float64, lda int, anorm float64, work []float64, iwork
[]int) float64 {
 switch {
 case uplo != blas.Upper && uplo != blas.Lower:
  panic(badUplo)
 case n < 0:
  panic(nLT0)
 case lda < max(1, n):
  panic(badLdA)
 case anorm
 < 0:
  panic(negANorm)
 }

 // Quick return if possible.
 if n == 0 {
  return 1
 }

 switch {
 case len(a) < (n-1)*lda+n:
  panic(shortA)
 case len(work) < 3*n:
  panic(shortWork)
```

```
case len(iwork) < n:
 panic(shortIWork)
}

if anorm == 0 {
 return 0
}

bi := blas64.Implementation()

var (
 smlnum = dlamchS
 rcond  float64
 sl, su float64
 normin bool
 ainvnm float64
 kase   int
 isave  [3]int
)
for {
 ainvnm, kase = impl.Dlacn2(n, work[n:], work, iwork, ainvnm, kase, &isave)
 if kase == 0 {
  if ainvnm != 0 {
   rcond = (1 / ainvnm) / anorm
  }
  return rcond
 }
 if uplo == blas.Upper {
  sl = impl.Dlatrs(blas.Upper, blas.Trans, blas.NonUnit, normin, n, a, lda, work, work[2*n:])
  normin = true
  su = impl.Dlatrs(blas.Upper, blas.NoTrans, blas.NonUnit, normin, n, a, lda, work, work[2*n:])
 } else {
  sl = impl.Dlatrs(blas.Lower, blas.NoTrans, blas.NonUnit, normin, n, a, lda, work, work[2*n:])
  normin = true
  su = impl.Dlatrs(blas.Lower, blas.Trans, blas.NonUnit,
normin, n, a, lda, work, work[2*n:])
 }
 scale := sl * su
 if scale != 1 {
  ix := bi.Idamax(n, work, 1)
  if scale == 0 || scale < math.Abs(work[ix])*smlnum {
   return rcond
  }
  impl.Drscl(n, scale, work, 1)
 }
}
}
```

```
graph{STRU{STRW{STRW}STRW{STRW}STRW}}
graph{{d}}
graph{strh{{{strd}}}}
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package distuv_test

import (
 "fmt"

 "gonum.org/v1/gonum/stat"
 "gonum.org/v1/gonum/stat/distuv"
)

func ExampleNormal() {
 // Create a normal distribution
 dist := distuv.Normal{
  Mu:    2,
  Sigma: 5,
 }

 data := make([]float64, 1e5)

 // Draw some random values from the standard normal distribution
 for i := range data {
  data[i] = dist.Rand()
 }

 mean, std := stat.MeanStdDev(data, nil)
 meanErr := stat.StdErr(std, float64(len(data)))

 fmt.Printf("mean= %1.1f  %0.1v\n", mean, meanErr)

 // Output:
 // mean= 2.0  0.02
}
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// license that can be found in the LICENSE file.

// +build noasm appengine safe

package layout

// Change the testdata path for calculations done without assembly kernels.
func init() {
```

```
 tag = "_noasm"
}
graph edl{{edn}edh{edn}edl}
graph{StR{StR}}
graph{N9{N9{N7}}}
graph{{{{{{n}}n{{{{{n}}n}}}}}}n}
digraph main {
 // Node definitions.
 2 [label=entry];
 9;
 102;
 14;
 101;
 19;
 100;
 24;
 99;
 29;
 98;
 34;
 97;
 39;
 96;
 44;
 95;
 49;
 94;
 54;
 93;
 59;
 92;
 64;
 91;
 69;
 90;
 74;
 89;
 79;
 88;
 84;
 87;

 // Edge definitions.
 2 -> 9 [label=true];
 2 -> 102 [label=false];
 9 -> 14 [label=true];
 9 -> 101 [label=false];
 14 -> 19 [label=true];
```

```
14 -> 100 [label=false];
101 -> 102;
19 -> 24 [label=true];
19 -> 99 [label=false];
100 -> 101;
24 -> 29 [label=true];
24 -> 98 [label=false];
99 -> 100;
29 -> 34 [label=true];
29 -> 97 [label=false];
98 -> 99;
34 -> 39 [label=true];
34 -> 96 [label=false];
97 -> 98;
39 -> 44 [label=true];
39 -> 95 [label=false];
96 -> 97;
44 -> 49 [label=true];
44 -> 94 [label=false];
95 -> 96;
49 -> 54 [label=true];
49 -> 93 [label=false];
94 -> 95;
54 -> 59 [label=true];
54 -> 92 [label=false];
93 -> 94;
59 -> 64 [label=true];
59 -> 91 [label=false];
92 -> 93;
64 -> 69 [label=true];
64 -> 90 [label=false];
91 -> 92;
69
-> 74 [label=true];
69 -> 89 [label=false];
90 -> 91;
74 -> 79 [label=true];
74 -> 88 [label=false];
89 -> 90;
79 -> 84 [label=true];
79 -> 87 [label=false];
88 -> 89;
84 -> 87;
87 -> 88;
}
graph{GRAP0}
graph{{{diGrap}}}
```

This source code was written by the Go contributors.
The master list of contributors is in the main Go distribution,
visible at http://tip.golang.org/CONTRIBUTORS.
graph{{{EDG}}}
//** github.com/losinggeneration/geojson@v0.0.0-20160627001320-09bc167a825e **//

{{Types "CC-BY-SA-4.0"}}

Unit test JSON examples:
Most unit test examples are taken from the GeoJSON spec Rev 1.0 at
http://geojson.org/geojson-spec.html
Authors Howard Butler (Hobu Inc.), Martin Daly (Cadcorp), Allan Doyle (MIT), Sean Gillies (UNC-Chapel Hill), Tim Schaub (OpenGeo), Christopher Schmidt (MetaCarta)
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http://creativecommons.org/licenses/by/3.0/us/
graph{eD""eD""eD""eD""eN}
Graph{{Ed_{Ed_{Ed_{Ed_}}}}}
graph{e[l=<V5>]}
graph{{{diGE{diGE}{diGE}{diGE}}}diGE}
graph{GRAPU{GRAPU}}
Contributing to Go

Go is an open source project.

It is the work of hundreds of contributors. We appreciate your help!

Filing issues

When [filing an issue](https://golang.org/issue/new), make sure to answer these five questions:

1. What version of Go are you using (`go version`)?
2. What operating system and processor architecture are you using?
3. What did you do?
4. What did you expect to see?
5. What did you see instead?

General questions should go to the [golang-nuts mailing list](https://groups.google.com/group/golang-nuts) instead of the issue tracker.
The gophers there will answer or ask you to file an issue if you've tripped over a bug.

Contributing code

Please read the [Contribution Guidelines](https://golang.org/doc/contribute.html)
before sending patches.

Unless otherwise noted, the Go source files are distributed under
the BSD-style license found in the LICENSE file.
graph{{NO{}NO}}
graph{{{{subgr}subgr}subgr}subgr}
//** github.com/ipld/go-ipld-adl-hamt@v0.0.0-20201125163904-25abfe77c0bc **//

{{Types "Apache-2.0 MIT"}}

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<!--- SPDX-License-Identifier: Apache-2.0 OR MIT -->
`SPDX-License-Identifier: Apache-2.0 OR MIT`
graph{{{subgz{{subgu{subgu}}}}subgz{{subgu{subgu}}}}}
graph{{SUBGRAv}SUBGRAh{{SUBGRAv}SUBGRAa}}
package mem_test

```
import (
 "bytes"
 "fmt"
 "math/rand"
 "os"
 "sync"
 "testing"
 "unsafe"

 "github.com/smasher164/mem"
)

var szpage = os.Getpagesize()

type slice struct {
 addr unsafe.Pointer
 len  int
 cap  int
}

func errpanic(f func()) (err error) {
 defer func() {
```

```
 if r := recover(); r != nil {
  err = fmt.Errorf("%v", r)
 }
}()
f()
return
}

func TestZero(t *testing.T) {
 p := mem.Alloc(0)
 if p != nil {
  t.Error("mem.Alloc(0) must return nil")
 }
 err := errpanic(func() { mem.Free(p) })
 if err != nil {
  t.Errorf("mem.Free(mem.Alloc(0)) panics: %v", err)
 }
}

func allocTester(t *testing.T) unsafe.Pointer {
 size := rand.Intn(szpage * (1 + rand.Intn(8)))
 p := mem.Alloc(uint(size))
 b1 := *(*[]byte)(unsafe.Pointer(&slice{p, size, size}))
 b2 := make([]byte, size)
 rand.Read(b2)
 if n := copy(b1, b2); n != size {
  t.Errorf("incorrect number of copied. want: %v, got: %v", size, n)
 }
 if bytes.Compare(b1, b2) != 0 {
  t.Errorf("original does not match allocated slice. want:
 %x, got: %x", b2, b1)
 }
 return p
}

func TestConsecutive(t *testing.T) {
 var allocs []unsafe.Pointer
 for i := 0; i < 50; i++ {
  allocs = append(allocs, allocTester(t))
 }
 for _, p := range allocs {
  p := p
  if err := errpanic(func() { mem.Free(p) }); err != nil {
   t.Errorf("mem.Free(%p) panics: %v", p, err)
  }
 }
}
```

```
func TestMixed(t *testing.T) {
 var allocs []unsafe.Pointer
 for i := 0; i < 30; i++ {
  allocs = append(allocs, allocTester(t))
 }
 rand.Shuffle(len(allocs), func(i, j int) {
  allocs[i], allocs[j] = allocs[j], allocs[i]
 })
 for i := 30 - 1; i >= 10; i-- {
  p := allocs[i]
  if err := errpanic(func() { mem.Free(p) }); err != nil {
   t.Errorf("mem.Free(%p) panics: %v", p, err)
  }
  allocs = allocs[:i]
 }
 for i := 0; i < 20; i++ {
  allocs = append(allocs, allocTester(t))
 }
 for _, p := range allocs {
  p := p
  if err := errpanic(func() { mem.Free(p) }); err != nil {
   t.Errorf("mem.Free(%p) panics: %v", p, err)
  }
 }
}

func TestConsecutiveConcurrent(t
 *testing.T) {
 var wg sync.WaitGroup
 var allocs []unsafe.Pointer
 var m sync.Mutex
 for i := 0; i < 50; i++ {
  wg.Add(1)
  go func() {
   defer wg.Done()
   p := allocTester(t)
   m.Lock()
   allocs = append(allocs, p)
   m.Unlock()
  }()
 }
 wg.Wait()
 for _, p := range allocs {
  p := p
  wg.Add(1)
  go func() {
   defer wg.Done()
   if err := errpanic(func() { mem.Free(p) }); err != nil {
```

```
    t.Errorf("mem.Free(%p) panics: %v", p, err)
   }
  }()
 }
 wg.Wait()
}

func BenchmarkConsecutiveAlloc(b *testing.B) {
 b.ReportAllocs()
 b.StopTimer()
 allocs := make([]unsafe.Pointer, b.N)
 for i := 0; i < b.N; i++ {
  size := uint(rand.Intn(szpage * (1 + rand.Intn(8))))
  b.StartTimer()
  allocs[i] = mem.Alloc(size)
  b.StopTimer()
 }
 for _, p := range allocs {
  mem.Free(p)
 }
}

func BenchmarkConsecutiveFree(b *testing.B) {
 b.ReportAllocs()
 b.StopTimer()
 allocs := make([]unsafe.Pointer, b.N)
 for i := 0; i < b.N; i++ {
  size := uint(rand.Intn(szpage * (1 + rand.Intn(8))))
  allocs[i]
 = mem.Alloc(size)
 }
 b.StartTimer()
 for i := 0; i < b.N; i++ {
  mem.Free(allocs[i])
 }
}
graph{{{{SubGra}}}SubGra}
#
graph{{"
"#
}}
graph{{DIR}{DIR}{DIR}}
graph{{{DiGr2{{DiGr2}{DiGr2{{DiGr2}DiGr1}DiGr1}DiGr1}DiGr1}DiGr1}DiGr1}
graph{{rr}rr}
graph{GRAPp{GRAPp{GRAPe}{GRAPp{GRAPe}}}}
graph{DiGrC{{DiGrC{{DiGrC}DiGrG}{DiGrC}}DiGrC}}
graph{NU{{NU}{NU{{NU}NU}}NU}{NU{{NU}NU}}}
```

graph{diGra{diGrap}diGrap}
graph{diG{diG{diG{di9}diG}}}
graph{{{Subgrap{Subgrap}Subgrap{}}}{{Subgrap{Subgrap}""}}{{Subgrap{Subgrap}}}{{Subgrap{Subgrap}}}{
{Subgrap{Subgrap}Subgrap{Subgrap}}}}
graph{{SUU{{SUU{{SUU}}}}}SUU}
graph{{DIG_{DIG_}DIGG{DIG_}DIG_}}
Graph{{{{{subgra}}subgra}}}
graph{{{diGE{diGE}{diGE}{diGE}}}}
graph{{{EI}EI{{EI}EI}EI}EI{{EI}EI}EI{{EI}}EI{{EI}EI{{EI}}EI{{EI}EI}}}

```
// Copyright 2017 The Gonum Authors. All rights reserved.
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// license that can be found in the LICENSE file.

package fd

import "gonum.org/v1/gonum/mat"

// Watson implements the Watson's function.
// Dimension of the problem should be 2 <= dim <= 31. For dim == 9, the problem
// of minimizing the function is very ill conditioned.
//
// This is copied from gonum.org/v1/optimize/functions for testing Hessian-like
// derivative methods.
//
// References:
//  - Kowalik, J.S., Osborne, M.R.: Methods for Unconstrained Optimization
//    Problems. Elsevier North-Holland, New York, 1968
//  - More, J., Garbow, B.S., Hillstrom, K.E.: Testing unconstrained
//    optimization software. ACM Trans Math Softw 7 (1981), 17-41
type Watson struct{}

func (Watson) Func(x []float64) (sum float64) {
 for i := 1; i <= 29; i++ {
  d1 := float64(i) / 29

  d2 := 1.0
  var s1 float64
  for j := 1; j < len(x); j++ {
   s1 += float64(j) * d2 * x[j]
   d2 *=
 d1
  }

  d2 = 1.0
  var s2 float64
  for _, v := range x {
   s2 += d2 * v
   d2 *= d1
```

```
  }

  t := s1 - s2*s2 - 1
  sum += t * t
 }
 t := x[1] - x[0]*x[0] - 1
 sum += x[0]*x[0] + t*t
 return sum
}

func (Watson) Grad(grad, x []float64) {
 if len(x) != len(grad) {
  panic("incorrect size of the gradient")
 }

 for i := range grad {
  grad[i] = 0
 }
 for i := 1; i <= 29; i++ {
  d1 := float64(i) / 29

  d2 := 1.0
  var s1 float64
  for j := 1; j < len(x); j++ {
   s1 += float64(j) * d2 * x[j]
   d2 *= d1
  }

  d2 = 1.0
  var s2 float64
  for _, v := range x {
   s2 += d2 * v
   d2 *= d1
  }

  t := s1 - s2*s2 - 1
  s3 := 2 * d1 * s2
  d2 = 2 / d1
  for j := range x {
   grad[j] += d2 * (float64(j) - s3) * t
   d2 *= d1
  }
 }
 t := x[1] - x[0]*x[0] - 1
 grad[0] += x[0] * (2 - 4*t)
 grad[1] += 2 * t
}
```

```
func (Watson) Hess(hess mat.MutableSymmetric, x []float64) {
 dim := len(x)
 if dim != hess.Symmetric() {
  panic("incorrect size of the Hessian")
 }

 for j := 0; j < dim; j++ {
  for k
 := j; k < dim; k++ {
   hess.SetSym(j, k, 0)
  }
 }
 for i := 1; i <= 29; i++ {
  d1 := float64(i) / 29
  d2 := 1.0
  var s1 float64
  for j := 1; j < dim; j++ {
   s1 += float64(j) * d2 * x[j]
   d2 *= d1
  }

  d2 = 1.0
  var s2 float64
  for _, v := range x {
   s2 += d2 * v
   d2 *= d1
  }

  t := s1 - s2*s2 - 1
  s3 := 2 * d1 * s2
  d2 = 2 / d1
  th := 2 * d1 * d1 * t
  for j := 0; j < dim; j++ {
   v := float64(j) - s3
   d3 := 1 / d1
   for k := 0; k <= j; k++ {
    hess.SetSym(k, j, hess.At(k, j)+d2*d3*(v*(float64(k)-s3)-th))
    d3 *= d1
   }
   d2 *= d1
  }
 }
 t1 := x[1] - x[0]*x[0] - 1
 hess.SetSym(0, 0, hess.At(0, 0)+8*x[0]*x[0]+2-4*t1)
 hess.SetSym(0, 1, hess.At(0, 1)-4*x[0])
 hess.SetSym(1, 1, hess.At(1, 1)+2)
}
```

```
graph{{{SUBGRp}SUBGRp{SUBGRp}SUBGRp}}
graph{{subgrap_}{subgrap_}{subgrap_}{subgrap_}{subgrap_}{subgrap_}{subgrap_}{}}
// Copyright 2018 The Gonum Authors. All rights reserved.
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// license that can be found in the LICENSE file.

package iterator_test

import (
 "reflect"
 "testing"

 "gonum.org/v1/gonum/graph"
 "gonum.org/v1/gonum/graph/iterator"
 "gonum.org/v1/gonum/graph/simple"
)

type edge struct{ f, t int }

func (e edge) From() graph.Node         { return simple.Node(e.f) }
func (e edge) To() graph.Node           { return simple.Node(e.t) }
func (e edge) ReversedEdge() graph.Edge { return edge{f: e.t, t: e.f} }

var orderedEdgesTests = []struct {
 edges []graph.Edge
}{
 {edges: nil},
 {edges: []graph.Edge{edge{f: 1, t: 2}}},
 {edges: []graph.Edge{edge{f: 1, t: 2}, edge{f: 2, t: 3}, edge{f: 3, t: 4}, edge{f: 4, t: 5}}},
 {edges: []graph.Edge{edge{f: 5, t: 4}, edge{f: 4, t: 3}, edge{f: 3, t: 2}, edge{f: 2, t: 1}}},
}

func TestOrderedEdgesIterate(t *testing.T) {
 for _, test := range orderedEdgesTests {
  it := iterator.NewOrderedEdges(test.edges)
  for
 i := 0; i < 2; i++ {
   if it.Len() != len(test.edges) {
    t.Errorf("unexpected iterator length for round %d: got:%d want:%d", i, it.Len(), len(test.edges))
   }
   var got []graph.Edge
   for it.Next() {
    got = append(got, it.Edge())
   }
   want := test.edges
   if !reflect.DeepEqual(got, want) {
    t.Errorf("unexpected iterator output for round %d: got:%#v want:%#v", i, got, want)
   }
```

```
  it.Reset()
  }
 }
}

func TestOrderedEdgesSlice(t *testing.T) {
 for _, test := range orderedEdgesTests {
  it := iterator.NewOrderedEdges(test.edges)
  for i := 0; i < 2; i++ {
   got := it.EdgeSlice()
   want := test.edges
   if !reflect.DeepEqual(got, want) {
    t.Errorf("unexpected iterator output for round %d: got:%#v want:%#v", i, got, want)
   }
   it.Reset()
  }
 }
}

type weightedEdge struct {
 f, t int
 w    float64
}

func (e weightedEdge) From() graph.Node         { return simple.Node(e.f) }
func (e weightedEdge) To() graph.Node           { return simple.Node(e.t) }
func (e
 weightedEdge) ReversedEdge() graph.Edge { e.f, e.t = e.t, e.f; return e }
func (e weightedEdge) Weight() float64          { return e.w }

var orderedWeightedEdgesTests = []struct {
 edges []graph.WeightedEdge
}{
 {edges: nil},
 {edges: []graph.WeightedEdge{weightedEdge{f: 1, t: 2, w: 1}}},
 {edges: []graph.WeightedEdge{weightedEdge{f: 1, t: 2, w: 1}, weightedEdge{f: 2, t: 3, w: 2}, weightedEdge{f: 3, t:
4, w: 3}, weightedEdge{f: 4, t: 5, w: 4}}},
 {edges: []graph.WeightedEdge{weightedEdge{f: 5, t: 4, w: 4}, weightedEdge{f: 4, t: 3, w: 3}, weightedEdge{f: 3, t:
2, w: 2}, weightedEdge{f: 2, t: 1, w: 1}}},
}

func TestOrderedWeightedEdgesIterate(t *testing.T) {
 for _, test := range orderedWeightedEdgesTests {
  it := iterator.NewOrderedWeightedEdges(test.edges)
  for i := 0; i < 2; i++ {
   if it.Len() != len(test.edges) {
    t.Errorf("unexpected iterator length for round %d: got:%d want:%d", i, it.Len(), len(test.edges))
   }
```

```
  var got []graph.WeightedEdge
  for it.Next() {
   got
 = append(got, it.WeightedEdge())
  }
  want := test.edges
  if !reflect.DeepEqual(got, want) {
   t.Errorf("unexpected iterator output for round %d: got:%#v want:%#v", i, got, want)
  }
  it.Reset()
 }
}
}

func TestOrderedWeightedEdgesSlice(t *testing.T) {
 for _, test := range orderedWeightedEdgesTests {
  it := iterator.NewOrderedWeightedEdges(test.edges)
  for i := 0; i < 2; i++ {
   got := it.WeightedEdgeSlice()
   want := test.edges
   if !reflect.DeepEqual(got, want) {
    t.Errorf("unexpected iterator output for round %d: got:%#v want:%#v", i, got, want)
   }
   it.Reset()
  }
 }
}
graph{{SUBG0{SUBG9}}}
graph{{digraq}{digraq}{digraq}{digraq}{}{digraq}}
graph{{GRAC{}GRAC{{GRAB}{GRAB}{GRAB}{GRAB}}}}
graph{{NOd{NOr{{{NOr}NOd{NOr}}}}}}
graph{{DiGraphg}}
graph{{{SubG1}{SubG1}{SubG1}{SubG1}}}
graph{<<><><><><><><><><>>}
graph{subGraA{subGraB}}
graph{GR}
# Gonum [![Build Status](https://www.travis-ci.org/gonum/gonum.svg?branch=master)](https://www.travis-ci.org/gonum/gonum/branches) [![Build status](https://ci.appveyor.com/api/projects/status/valslkp8sr50eepn/branch/master?svg=true)](https://ci.appveyor.com/project/Gonum/gonum/branch/master) [![codecov.io](https://codecov.io/gh/gonum/gonum/branch/master/graph/badge.svg)](https://codecov.io/gh/gonum/gonum) [![coveralls.io](https://coveralls.io/repos/gonum/gonum/badge.svg?branch=master&service=github)](https://coveralls.io/github/gonum/gonum?branch=master) [![GoDoc](https://godoc.org/gonum.org/v1/gonum?status.svg)](https://godoc.org/gonum.org/v1/gonum) [![Go Report Card](https://goreportcard.com/badge/github.com/gonum/gonum)](https://goreportcard.com/report/github.com/gonum/gonum) [![stability-unstable](https://img.shields.io/badge/stability-unstable-
```

yellow.svg)](https://github.com/emersion/stability-badges#unstable)

Installation

The core packages of the Gonum suite are written in pure
 Go with some assembly.
Installation is done using `go get`.
```
go get -u gonum.org/v1/gonum/...
```

Supported Go versions

Gonum supports and tests on the [two most recent Go
releases](https://github.com/gonum/gonum/blob/master/.travis.yml#L6-L10) on Linux, macOS and Windows.

Release schedule

The Gonum modules are released on a six-month release schedule, aligned with the Go releases.
_i.e.:_ when `Go-1.x` is released, `Gonum-v0.n.0` is released around the same time.
Six months after, `Go-1.x+1` is released, and `Gonum-v0.n+1.0` as well.

The release schedule, based on the current Go release schedule is thus:

- `Gonum-v0.n.0`: February
- `Gonum-v0.n+1.0`: August

Build tags

The Gonum packages use a variety of build tags to set non-standard build conditions.
Building Gonum applications will work without knowing how to use these tags, but they can be used during testing and to control the use of assembly and CGO code.

The current list of non-internal tags is as follows:

-
 appengine do not use assembly or unsafe
- safe synonym for appengine
- bounds use bounds checks even in internal calls
- cblas use CGO gonum.org/v1/netlib/blas/netlib BLAS implementation in tests (only in [mat
package](https://godoc.org/gonum.org/v1/gonum/mat))
- noasm do not use assembly implementations
- tomita use [Tomita, Tanaka, Takahashi pivot choice](https://doi.org/10.1016%2Fj.tcs.2006.06.015) for
maximimal clique calculation, otherwise use random pivot (only in [topo
package](https://godoc.org/gonum.org/v1/gonum/graph/topo))

Issues

If you find any bugs, feel free to file an issue on the github issue tracker. Discussions on API changes, added features, code review, or similar requests are preferred on the gonum-dev Google Group.

https://groups.google.com/forum/#!forum/gonum-dev

License

Original code is licensed under the Gonum License found in the LICENSE file. Portions of the code are subject to the additional licenses found in THIRD_PARTY_LICENSES. All
 third party code is licensed either under a BSD or MIT license.

Code in graph/formats/dot is dual licensed [Public Domain Dedication](https://creativecommons.org/publicdomain/zero/1.0/) and Gonum License, and users are free to choose the license which suits their needs for this code.

```
// Copyright 2019 The Gonum Authors. All rights reserved.
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// license that can be found in the LICENSE file.

package r3

// Vec is a 3D vector.
type Vec struct {
 X, Y, Z float64
}

// Add returns the vector sum of p and q.
func (p Vec) Add(q Vec) Vec {
 p.X += q.X
 p.Y += q.Y
 p.Z += q.Z
 return p
}

// Sub returns the vector sum of p and -q.
func (p Vec) Sub(q Vec) Vec {
 p.X -= q.X
 p.Y -= q.Y
 p.Z -= q.Z
 return p
}

// Scale returns the vector p scaled by f.
func (p Vec) Scale(f float64) Vec {
 p.X *= f
 p.Y *= f
 p.Z *= f
 return p
```

```
}

// Box is a 3D bounding box.
type Box struct {
 Min, Max Vec
}
graph{Di{Di}{Di{Di{Di}{Di{Di}Di}Di{Di}}Di}Di{Di}{Di{Di}Di}Di}
// Copyright 2015 The Gonum Authors. All rights reserved.
// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

package gonum

// Iladlc scans a matrix for its last non-zero column. Returns -1 if the matrix
// is all zeros.
//
// Iladlc is an internal routine. It is exported for testing purposes.
func (Implementation) Iladlc(m, n int, a []float64, lda int) int {
 switch {
 case m < 0:
  panic(mLT0)
 case n < 0:
  panic(nLT0)
 case lda < max(1, n):
  panic(badLdA)
 }

 if n == 0 || m == 0 {
  return -1
 }

 if len(a) < (m-1)*lda+n {
  panic(shortA)
 }

 // Test common case where corner is non-zero.
 if a[n-1] != 0 || a[(m-1)*lda+(n-1)] != 0 {
  return n - 1
 }

 // Scan each row tracking the highest column seen.
 highest := -1
 for i := 0; i < m; i++ {
  for j := n - 1; j >= 0; j-- {
   if a[i*lda+j] != 0 {
    highest = max(highest, j)
    break
   }
```

```
  }
 }
 return highest
}
graph{diGrapu}
graph{""[diGra_=""]}
graph{{DIGRA}{DIGRA}{DIGRA}{DIGRA}{DIGRA}{DIGRA}{DIGRA}{DIGRA}{DIGRA}}
// SPDX-License-Identifier: Unlicense OR MIT

// Package widget implements state tracking and event handling of
// common user interface controls. To draw widgets, use a theme
// packages such as package gioui.org/widget/material.
package widget
// Copyright 2015 The Gonum Authors. All rights reserved.
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// license that can be found in the LICENSE file.

package graph_test

import (
 "math"
 "testing"

 "gonum.org/v1/gonum/graph"
 "gonum.org/v1/gonum/graph/simple"
 "gonum.org/v1/gonum/mat"
)

type weightedDirectedBuilder interface {
 graph.WeightedBuilder
 graph.WeightedDirected
}

var weightedDirectedGraphs = []struct {
 skipUnweighted bool

 g      func() weightedDirectedBuilder
 edges  []simple.WeightedEdge
 absent float64
 merge  func(x, y float64, xe, ye graph.Edge) float64

 want mat.Matrix
}{
 {
  g: func() weightedDirectedBuilder { return simple.NewWeightedDirectedGraph(0, 0) },
  edges: []simple.WeightedEdge{
   {F: simple.Node(0), T: simple.Node(1), W: 2},
   {F: simple.Node(1), T: simple.Node(0), W: 1},
```

```
  {F: simple.Node(1), T: simple.Node(2), W: 1},
 },
 want: mat.NewSymDense(3, []float64{
  0, (1. + 2.) / 2., 0,
  (1. + 2.) / 2., 0, 1. / 2.,
  0, 1. / 2., 0,
 }),
},
{
 g:
func() weightedDirectedBuilder { return simple.NewWeightedDirectedGraph(0, 0) },
 edges: []simple.WeightedEdge{
  {F: simple.Node(0), T: simple.Node(1), W: 2},
  {F: simple.Node(1), T: simple.Node(0), W: 1},
  {F: simple.Node(1), T: simple.Node(2), W: 1},
 },
 absent: 1,
 merge:  func(x, y float64, _, _ graph.Edge) float64 { return math.Sqrt(x * y) },
 want: mat.NewSymDense(3, []float64{
  0, math.Sqrt(1 * 2), 0,
  math.Sqrt(1 * 2), 0, math.Sqrt(1 * 1),
  0, math.Sqrt(1 * 1), 0,
 }),
},
{
 skipUnweighted: true, // The min merge function cannot be used in the unweighted case.

 g: func() weightedDirectedBuilder { return simple.NewWeightedDirectedGraph(0, 0) },
 edges: []simple.WeightedEdge{
  {F: simple.Node(0), T: simple.Node(1), W: 2},
  {F: simple.Node(1), T: simple.Node(0), W: 1},
  {F: simple.Node(1), T: simple.Node(2), W: 1},
 },
 merge: func(x, y float64, _, _ graph.Edge) float64 { return math.Min(x, y) },
 want: mat.NewSymDense(3, []float64{
  0,
math.Min(1, 2), 0,
  math.Min(1, 2), 0, math.Min(1, 0),
  0, math.Min(1, 0), 0,
 }),
},
{
 g: func() weightedDirectedBuilder { return simple.NewWeightedDirectedGraph(0, 0) },
 edges: []simple.WeightedEdge{
  {F: simple.Node(0), T: simple.Node(1), W: 2},
  {F: simple.Node(1), T: simple.Node(0), W: 1},
  {F: simple.Node(1), T: simple.Node(2), W: 1},
 },
```

```
  merge: func(x, y float64, xe, ye graph.Edge) float64 {
   if xe == nil {
    return y
   }
   if ye == nil {
    return x
   }
   return math.Min(x, y)
  },
  want: mat.NewSymDense(3, []float64{
   0, math.Min(1, 2), 0,
   math.Min(1, 2), 0, 1,
   0, 1, 0,
  }),
 },
 {
  g: func() weightedDirectedBuilder { return simple.NewWeightedDirectedGraph(0, 0) },
  edges: []simple.WeightedEdge{
   {F: simple.Node(0), T: simple.Node(1), W: 2},
   {F: simple.Node(1), T: simple.Node(0), W: 1},
   {F: simple.Node(1), T: simple.Node(2), W: 1},
  },
  merge: func(x, y float64, _, _ graph.Edge) float64 { return math.Max(x, y) },
  want:
 mat.NewSymDense(3, []float64{
   0, math.Max(1, 2), 0,
   math.Max(1, 2), 0, math.Max(1, 0),
   0, math.Max(1, 0), 0,
  }),
 },
}

func TestUndirect(t *testing.T) {
 for i, test := range weightedDirectedGraphs {
  if test.skipUnweighted {
   continue
  }
  g := test.g()
  for _, e := range test.edges {
   g.SetWeightedEdge(e)
  }

  src := graph.Undirect{G: g}
  nodes := graph.NodesOf(src.Nodes())
  dst := simple.NewUndirectedMatrixFrom(nodes, 0, 0, 0)
  for _, u := range nodes {
   for _, v := range graph.NodesOf(src.From(u.ID())) {
    dst.SetEdge(src.Edge(u.ID(), v.ID()))
```

```
  }
 }

 want := unit{test.want}
 if !mat.Equal(dst.Matrix(), want) {
  t.Errorf("unexpected result for case %d:\ngot:\n%.4v\nwant:\n%.4v", i,
   mat.Formatted(dst.Matrix()),
   mat.Formatted(want),
  )
 }
}
}

func TestUndirectWeighted(t *testing.T) {
 for i, test := range weightedDirectedGraphs {
  g := test.g()
  for _, e := range test.edges {
   g.SetWeightedEdge(e)
  }

  src := graph.UndirectWeighted{G:
 g, Absent: test.absent, Merge: test.merge}
  nodes := graph.NodesOf(src.Nodes())
  dst := simple.NewUndirectedMatrixFrom(nodes, 0, 0, 0)
  for _, u := range nodes {
   for _, v := range graph.NodesOf(src.From(u.ID())) {
    dst.SetWeightedEdge(src.WeightedEdge(u.ID(), v.ID()))
   }
  }

  if !mat.Equal(dst.Matrix(), test.want) {
   t.Errorf("unexpected result for case %d:\ngot:\n%.4v\nwant:\n%.4v", i,
    mat.Formatted(dst.Matrix()),
    mat.Formatted(test.want),
   )
  }
 }
}

type unit struct {
 mat.Matrix
}

func (m unit) At(i, j int) float64 {
 v := m.Matrix.At(i, j)
 if v == 0 {
  return 0
 }
```

```
 return 1
}
graph{{{Strictc}{Strictc}}}
graph{SubGra{{{SubGra}}}SubGra}
// SPDX-License-Identifier: Unlicense OR MIT

// Package window implements platform specific windows
// and GPU contexts.
package window

import (
 "errors"
 "math"
 "time"

 "gioui.org/app/internal/gl"
 "gioui.org/io/event"
 "gioui.org/io/system"
 "gioui.org/unit"
)

type Options struct {
 Width, Height unit.Value
 Title         string
}

type FrameEvent struct {
 system.FrameEvent

 Sync bool
}

type Callbacks interface {
 SetDriver(d Driver)
 Event(e event.Event)
}

type Context interface {
 Functions() *gl.Functions
 Present() error
 MakeCurrent() error
 Release()
 Lock()
 Unlock()
}

// Driver is the interface for the platform implementation
// of a window.
```

```
type Driver interface {
 // SetAnimating sets the animation flag. When the window is animating,
 // FrameEvents are delivered as fast as the display can handle them.
 SetAnimating(anim bool)
 // ShowTextInput updates the virtual keyboard state.
 ShowTextInput(show bool)
 NewContext() (Context, error)
}

type windowRendezvous struct
 {
 in   chan windowAndOptions
 out  chan windowAndOptions
 errs chan error
}

type windowAndOptions struct {
 window Callbacks
 opts   *Options
}

// config implements the system.Config interface.
type config struct {
 // Device pixels per dp.
 pxPerDp float32
 // Device pixels per sp.
 pxPerSp float32
 now     time.Time
}

func (c *config) Now() time.Time {
 return c.now
}

func (c *config) Px(v unit.Value) int {
 var r float32
 switch v.U {
 case unit.UnitPx:
  r = v.V
 case unit.UnitDp:
  r = c.pxPerDp * v.V
 case unit.UnitSp:
  r = c.pxPerSp * v.V
 default:
  panic("unknown unit")
 }
 return int(math.Round(float64(r)))
}
```

```
func newWindowRendezvous() *windowRendezvous {
 wr := &windowRendezvous{
  in:   make(chan windowAndOptions),
  out:  make(chan windowAndOptions),
  errs: make(chan error),
 }
 go func() {
  var main windowAndOptions
  var out chan windowAndOptions
  for {
   select {
   case w := <-wr.in:
    var err error
    if main.window != nil {
     err = errors.New("multiple
 windows are not supported")
    }
    wr.errs <- err
    main = w
    out = wr.out
   case out <- main:
   }
  }
 }()
 return wr
}
graph{Str{}Str{Str}{Str{}Str{}Stry}{Str{}Str{Str}{Str}}}
digraph{Et->Et Et{}Et->Et Et}
graph {h[t=0.575]}
graph{{{{{{}}}}}}
graph{Z9_3_2_7_9_9_6_{D0_5_5_9_4_4_}{{B4_2_3_4_2_3_4_2_3_4_2_3_4_2_3_4_2_3_4_2_3_4_4_2_3_4_2_
3_4_2_3_4_2_3_4_2_3_4_2_3_4_2_3_4_4_2_3_4_2_3_4_2_3_4_2_3_4_2_3_4_2_3_4_4_2_3_4_2_3_4_2
_3_4_2_3_4_2_3_4_2_3_4_2_3_4_}}C5_2_3_6_1_{}}
graph{{{SubG1}{SubG1}{SubG1}}}
graph{{{DiV{{DiW}{DiW}{DiW}{DiW}}}DiV{{DiW}}DiW}{DiW}}
//**
source: https://github.com/runatlantis/atlantis/blob/master/LICENSE
**//
{{Types "Apache-2.0"}}
```

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Hootsuite Media Inc.
graph{{{{STRIr}}STRIr}}
graph{<<==========>>}
graph{{{{{e{e}e}e}e}e}}
graph{{{{{{SubGrap{{SubGrap{{SubGrap}}}}}}SubGrap{{SubGrap{{SubGrap}}}}{{SubGrap}}}}}}
graph{{subgrap_}{subgrap_}{subgrap_}{subgrap_}{subgrap_}}
graph{Grac{{{{Grab}}}}}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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// license that can be found in the LICENSE file.

package unit

```
import (
 "errors"
 "fmt"
 "math"
 "unicode/utf8"
)

// Time represents a duration in seconds.
type Time float64

const (
 Second Time = 1

 Minute = 60 * Second
 Hour   = 60 * Minute
)
```

```
// Unit converts the Time to a *Unit
func (t Time) Unit() *Unit {
 return New(float64(t), Dimensions{
  TimeDim: 1,
 })
}

// Time allows Time to implement a Timer interface
func (t Time) Time() Time {
 return t
}

// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (t *Time) From(u Uniter) error {
 if !DimensionsMatch(u, Second) {
  *t = Time(math.NaN())
  return errors.New("Dimension mismatch")
 }
 *t = Time(u.Unit().Value())
 return nil
}

func (t Time) Format(fs fmt.State, c rune) {
 switch c {
 case
 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", t, float64(t))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " s"
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(t))
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(t))
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(t))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(t))
  }
  fmt.Fprint(fs, unit)
 default:
```

```
  fmt.Fprintf(fs, "%%!%c(%T=%g s)", c, t, float64(t))
 }
}
graph{-.5{-.5{-.5}-.5}}
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package testblas

import (
 "testing"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/floats"
)

type Dtrsver interface {
 Dtrsv(ul blas.Uplo, tA blas.Transpose, d blas.Diag, n int, a []float64, lda int, x []float64, incX int)
}

func DtrsvTest(t *testing.T, blasser Dtrsver) {
 for i, test := range []struct {
  n   int
  a   [][]float64
  ul  blas.Uplo
  tA  blas.Transpose
  d   blas.Diag
  x   []float64
  ans []float64
 }{
  {
   n: 3,
   a: [][]float64{
    {1, 2, 3},
    {0, 8, 15},
    {0, 0, 8},
   },
   ul:  blas.Upper,
   tA:  blas.NoTrans,
   d:   blas.NonUnit,
   x:   []float64{5, 6, 7},
   ans: []float64{4.15625, -0.890625, 0.875},
  },
  {
   n: 3,
   a: [][]float64{
    {1, 2, 3},
```

```
  {0, 1, 15},
  {0, 0, 1},
 },
 ul:  blas.Upper,
 tA:  blas.NoTrans,
 d:   blas.Unit,
 x:   []float64{5, 6, 7},
 ans: []float64{182,
-99, 7},
 },
 {
 n: 3,
 a: [][]float64{
  {1, 0, 0},
  {2, 8, 0},
  {3, 15, 8},
 },
 ul:  blas.Lower,
 tA:  blas.NoTrans,
 d:   blas.NonUnit,
 x:   []float64{5, 6, 7},
 ans: []float64{5, -0.5, -0.0625},
 },
 {
 n: 3,
 a: [][]float64{
  {1, 0, 0},
  {2, 8, 0},
  {3, 15, 8},
 },
 ul:  blas.Lower,
 tA:  blas.NoTrans,
 d:   blas.Unit,
 x:   []float64{5, 6, 7},
 ans: []float64{5, -4, 52},
 },
 {
 n: 3,
 a: [][]float64{
  {1, 2, 3},
  {0, 8, 15},
  {0, 0, 8},
 },
 ul:  blas.Upper,
 tA:  blas.Trans,
 d:   blas.NonUnit,
 x:   []float64{5, 6, 7},
 ans: []float64{5, -0.5, -0.0625},
```

```
 },
 {
  n: 3,
  a: [][]float64{
   {1, 2, 3},
   {0, 8, 15},
   {0, 0, 8},
  },
  ul:  blas.Upper,
  tA:  blas.Trans,
  d:   blas.Unit,
  x:   []float64{5, 6, 7},
  ans: []float64{5, -4, 52},
 },
 {
  n: 3,
  a: [][]float64{
   {1, 0, 0},
   {2, 8, 0},
   {3, 15, 8},
  },
  ul:  blas.Lower,
  tA:  blas.Trans,
  d:
  blas.NonUnit,
  x:   []float64{5, 6, 7},
  ans: []float64{4.15625, -0.890625, 0.875},
 },
 {
  n: 3,
  a: [][]float64{
   {1, 0, 0},
   {2, 1, 0},
   {3, 15, 1},
  },
  ul:  blas.Lower,
  tA:  blas.Trans,
  d:   blas.Unit,
  x:   []float64{5, 6, 7},
  ans: []float64{182, -99, 7},
 },
} {
 incTest := func(incX, extra int) {
  aFlat := flatten(test.a)
  x := makeIncremented(test.x, incX, extra)
  blasser.Dtrsv(test.ul, test.tA, test.d, test.n, aFlat, test.n, x, incX)
  ans := makeIncremented(test.ans, incX, extra)
  if !floats.EqualApprox(x, ans, 1e-14) {
```

```
    t.Errorf("Case %v, incX = %v: Want %v, got %v.", i, incX, ans, x)
   }
  }
  incTest(1, 0)
  incTest(-2, 0)
  incTest(3, 0)
  incTest(-3, 8)
  incTest(4, 2)
 }
}
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package testblas

import (
 "testing"

 "gonum.org/v1/gonum/blas"
)

type Dsprer interface {
 Dspr(ul blas.Uplo, n int, alpha float64, x []float64, incX int, a []float64)
}

func DsprTest(t *testing.T, blasser Dsprer) {
 for i, test := range []struct {
  ul    blas.Uplo
  n     int
  a     [][]float64
  x     []float64
  alpha float64
  ans   [][]float64
 }{
  {
   ul: blas.Upper,
   n:  4,
   a: [][]float64{
    {10, 2, 0, 1},
    {0, 1, 2, 3},
    {0, 0, 9, 15},
    {0, 0, 0, -6},
   },
   x:     []float64{1, 2, 0, 5},
   alpha: 8,
   ans: [][]float64{
    {18, 18, 0, 41},
```

```
   {0, 33, 2, 83},
   {0, 0, 9, 15},
   {0, 0, 0, 194},
  },
 },
 {
  ul: blas.Lower,
  n:  3,
  a: []float64{
   {10, 2, 0},
   {4, 1, 2},
   {2, 7, 9},
  },
  x:     []float64{3, 0, 5},
  alpha: 8,
  ans: []float64{
   {82, 2, 0},
   {4,
1, 2},
   {122, 7, 209},
  },
 },
} {
 incTest := func(incX, extra int) {
  xnew := makeIncremented(test.x, incX, extra)
  aFlat := flattenTriangular(test.a, test.ul)
  ans := flattenTriangular(test.ans, test.ul)
  blasser.Dspr(test.ul, test.n, test.alpha, xnew, incX, aFlat)
  if !dSliceTolEqual(aFlat, ans) {
   t.Errorf("Case %v, idx %v: Want %v, got %v.", i, incX, ans, aFlat)
  }
 }
 incTest(1, 3)
 incTest(1, 0)
 incTest(3, 2)
 incTest(-2, 2)
}
}
graph{Subgrap}
graph{<=====>}
Graph{{Subgt{Subgz}}}
Graph{{{subgrax}subgrax{subgrax}subgrax}{{subgrax{}}subgrax}}
graph{subgrap}
graph{node}
graph{subGraph{{subGraph{subGrap}}}}
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```

```
package testblas

import (
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/floats"
)

type Dzasumer interface {
 Dzasum(n int, x []complex128, incX int) float64
}

func DzasumTest(t *testing.T, impl Dzasumer) {
 const tol = 1e-14
 rnd := rand.New(rand.NewSource(1))
 for _, n := range []int{0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 50, 100} {
  for _, incX := range []int{-5, 1, 2, 10} {
   aincX := abs(incX)
   var x []complex128
   if n > 0 {
    x = make([]complex128, (n-1)*aincX+1)
   }
   for i := range x {
    x[i] = znan
   }
   for i := 0; i < n; i++ {
    re := float64(2*i + 1)
    if rnd.Intn(2) == 0 {
     re *= -1
    }
    im := float64(2 * (i + 1))
    if rnd.Intn(2) == 0 {
     im *= -1
    }
    x[i*aincX] = complex(re, im)
   }

   want := float64(n * (2*n + 1))
   got := impl.Dzasum(n, x, incX)

   if
 incX < 0 {
    if got != 0 {
     t.Errorf("Case n=%v,incX=%v: non-zero result when incX < 0. got %v", n, incX, got)
    }
```

```
    continue
   }
   if !floats.EqualWithinAbsOrRel(got, want, tol, tol) {
    t.Errorf("Case n=%v,incX=%v: unexpected result. want %v, got %v", n, incX, want, got)
   }
  }
 }
}
```

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OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
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```
graph{STRI{STRI}{STRI}STRI}
graph{{S}S{S}S{S{S}}}
graph{GRAC{{GRAB}}}
digraph sta{node[e=ee]ey[]stn[l=""][l=""][l=""]ey->l[l=""]ey->stn[l=""t=8]stn->l[l=""]stn->g[l=""]g->l[l=""]}
graph{{{{{{{subgJ{}subgO}}}}}}}
graph{{{{EDGD}{EDGD}{}{}}}{EDGD""}{}{{{EDGD{{EDGD}}}EDGD}{{{{EDGD}}EDGD}n}{{EDGD{
{EDGD}}}EDGD{EDGD}}{EDGD{EDGD{}}{}}{{EDGD{{EDGD}}}{EDGD}}<>EDGD}}
```

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```
// Package cephes implements functions originally in the Netlib code by Stephen Mosher.
package cephes // import "gonum.org/v1/gonum/mathext/internal/cephes"
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.
```

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```
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package unit

import (
 "errors"
 "fmt"
 "math"
 "unicode/utf8"
)

// Current represents a current in Amperes.
type Current float64

const Ampere Current = 1

// Unit converts the Current to a *Unit
func (i Current) Unit() *Unit {
 return New(float64(i), Dimensions{
  CurrentDim: 1,
 })
}

// Current allows Current to implement a Currenter interface
func (i Current) Current() Current {
 return i
}

// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (i *Current) From(u Uniter) error {
 if !DimensionsMatch(u, Ampere) {
  *i = Current(math.NaN())
  return errors.New("Dimension mismatch")
 }
 *i = Current(u.Unit().Value())
 return nil
}

func (i Current) Format(fs fmt.State, c rune) {
 switch c {
 case
 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", i, float64(i))
   return
  }
  fallthrough
```

```
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " A"
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(i))
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(i))
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(i))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(i))
  }
  fmt.Fprint(fs, unit)
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g A)", c, i, float64(i))
 }
}
graph{{diGrar}diGrar}
graph{{st}st{st}{{st}st{st}st}}
graph{Nodd{Nodd{{Nodd}}}}
Graph{Subgrg{{{Subgrg}{Subgrg{{{Subgrg}{Subgrg}}}}Subgrg}}}
graph{{Ed}Edd""Ed}
graph{STRICU{{STRICU{STRICU}STRICU{STRICU{STRICU}}}}}
Graph{{{{{{subgre{{subgre}}subgro}subgre}}subgro}subgre}}
graph{{"\{\{\{\L"}"\{\L"}
digraph{{D:_->G:_->G:_->G:_}D:_->G:_}
graph{{{{digraV}digraM}digraU}}
graph{{{{grap5}grap5}grap5{grap5}grap5}}
graph{subGrH{subGrT}}
graph{{DigV}{DigV}{DigV}{DigV}DigP}
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package testlapack

import (
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
 "gonum.org/v1/gonum/floats"
 "gonum.org/v1/gonum/lapack"
)
```

```
type Dormbrer interface {
 Dormbr(vect lapack.ApplyOrtho, side blas.Side, trans blas.Transpose, m, n, k int, a []float64, lda int, tau, c []float64,
ldc int, work []float64, lwork int)
 Dgebrder
}

func DormbrTest(t *testing.T, impl Dormbrer) {
 rnd := rand.New(rand.NewSource(1))
 bi := blas64.Implementation()
 for _, vect := range []lapack.ApplyOrtho{lapack.ApplyQ, lapack.ApplyP} {
  for _, side := range []blas.Side{blas.Left, blas.Right} {
   for _, trans := range []blas.Transpose{blas.NoTrans, blas.Trans} {
    for _, wl := range []worklen{minimumWork, mediumWork, optimumWork} {
     for _, test := range []struct {
      m, n, k, lda, ldc
 int
     }{
      {3, 4, 5, 0, 0},
      {3, 5, 4, 0, 0},
      {4, 3, 5, 0, 0},
      {4, 5, 3, 0, 0},
      {5, 3, 4, 0, 0},
      {5, 4, 3, 0, 0},

      {3, 4, 5, 10, 12},
      {3, 5, 4, 10, 12},
      {4, 3, 5, 10, 12},
      {4, 5, 3, 10, 12},
      {5, 3, 4, 10, 12},
      {5, 4, 3, 10, 12},

      {150, 140, 130, 0, 0},
     } {
      m := test.m
      n := test.n
      k := test.k
      ldc := test.ldc
      if ldc == 0 {
       ldc = n
      }
      nq := n
      nw := m
      if side == blas.Left {
       nq = m
       nw = n
      }
```

```
    // Compute a decomposition.
    var ma, na int
    var a []float64
    if vect == lapack.ApplyQ {
     ma = nq
     na = k
    } else {
     ma = k
     na = nq
    }
    lda := test.lda
    if lda == 0 {
     lda = na
    }
    a = make([]float64, ma*lda)
    for i := range a {
     a[i] = rnd.NormFloat64()
    }
    nTau := min(nq, k)
    tauP := make([]float64, nTau)
    tauQ := make([]float64,
nTau)
    d := make([]float64, nTau)
    e := make([]float64, nTau)

    work := make([]float64, 1)
    impl.Dgebrd(ma, na, a, lda, d, e, tauQ, tauP, work, -1)
    work = make([]float64, int(work[0]))
    impl.Dgebrd(ma, na, a, lda, d, e, tauQ, tauP, work, len(work))

    // Apply and compare update.
    c := make([]float64, m*ldc)
    for i := range c {
     c[i] = rnd.NormFloat64()
    }
    cCopy := make([]float64, len(c))
    copy(cCopy, c)

    var lwork int
    switch wl {
    case minimumWork:
     lwork = nw
    case optimumWork:
     impl.Dormbr(vect, side, trans, m, n, k, a, lda, tauQ, c, ldc, work, -1)
     lwork = int(work[0])
    case mediumWork:
     work := make([]float64, 1)
     impl.Dormbr(vect, side, trans, m, n, k, a, lda, tauQ, c, ldc, work, -1)
```

```
 lwork = (int(work[0]) + nw) / 2
}
lwork = max(1, lwork)
work = make([]float64, lwork)

if vect == lapack.ApplyQ {
 impl.Dormbr(vect, side,
trans, m, n, k, a, lda, tauQ, c, ldc, work, lwork)
} else {
 impl.Dormbr(vect, side, trans, m, n, k, a, lda, tauP, c, ldc, work, lwork)
}

// Check that the multiplication was correct.
cOrig := blas64.General{
 Rows:   m,
 Cols:   n,
 Stride: ldc,
 Data:   make([]float64, len(cCopy)),
}
copy(cOrig.Data, cCopy)
cAns := blas64.General{
 Rows:   m,
 Cols:   n,
 Stride: ldc,
 Data:   make([]float64, len(cCopy)),
}
copy(cAns.Data, cCopy)
nb := min(ma, na)
var mulMat blas64.General
if vect == lapack.ApplyQ {
 mulMat = constructQPBidiagonal(lapack.ApplyQ, ma, na, nb, a, lda, tauQ)
} else {
 mulMat = constructQPBidiagonal(lapack.ApplyP, ma, na, nb, a, lda, tauP)
}

mulTrans := trans

if side == blas.Left {
 bi.Dgemm(mulTrans, blas.NoTrans, m, n, m, 1, mulMat.Data, mulMat.Stride, cOrig.Data, cOrig.Stride, 0,
cAns.Data, cAns.Stride)
}
else {
 bi.Dgemm(blas.NoTrans, mulTrans, m, n, n, 1, cOrig.Data, cOrig.Stride, mulMat.Data, mulMat.Stride, 0,
cAns.Data, cAns.Stride)
}

if !floats.EqualApprox(cAns.Data, c, 1e-13) {
 isApplyQ := vect == lapack.ApplyQ
```

```
      isLeft := side == blas.Left
      isTrans := trans == blas.Trans

      t.Errorf("C mismatch. isApplyQ: %v, isLeft: %v, isTrans: %v, m = %v, n = %v, k = %v, lda = %v, ldc = %v",
       isApplyQ, isLeft, isTrans, m, n, k, lda, ldc)
     }
    }
   }
  }
 }
}
graph{{DIG_{DIG_}DIG_{DIG_}DIG_}}
graph{<<==>>}
graph{stric{stric}}
graph{{GRAP_ GRAP_}}
Graph{{subgra_}{subgra_{{subgra_}{subgra_}}subgra_}}
graph{"\I\#"}
// Copyright 2016 The Gonum Authors. All rights reserved.
// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

package testlapack

import (
 "fmt"
 "math"
 "math/cmplx"
 "testing"

 "golang.org/x/exp/rand"
)

type Dlaln2er interface {
 Dlaln2(trans bool, na, nw int, smin, ca float64, a []float64, lda int, d1, d2 float64, b []float64, ldb int, wr, wi float64,
x []float64, ldx int) (scale, xnorm float64, ok bool)
}

func Dlaln2Test(t *testing.T, impl Dlaln2er) {
 rnd := rand.New(rand.NewSource(1))
 for _, trans := range []bool{true, false} {
  for _, na := range []int{1, 2} {
   for _, nw := range []int{1, 2} {
    for _, extra := range []int{0, 1, 2, 13} {
     for cas := 0; cas < 1000; cas++ {
      testDlaln2(t, impl, trans, na, nw, extra, rnd)
     }
    }
```

```
   }
  }
 }
}

func testDlaln2(t *testing.T, impl Dlaln2er, trans bool, na, nw, extra int, rnd *rand.Rand) {
 const tol = 1e-12

 // Generate random input scalars.
 ca := rnd.NormFloat64()
 d1
 := rnd.NormFloat64()
 d2 := rnd.NormFloat64()

 var w complex128
 if nw == 1 {
  w = complex(rand.NormFloat64(), 0)
 } else {
  w = complex(rand.NormFloat64(), rand.NormFloat64())
 }
 smin := dlamchP * (math.Abs(real(w)) + math.Abs(imag(w)))

 // Generate random input matrices.
 a := randomGeneral(na, na, na+extra, rnd)
 b := randomGeneral(na, nw, nw+extra, rnd)
 x := randomGeneral(na, nw, nw+extra, rnd)

 scale, xnormGot, ok := impl.Dlaln2(trans, na, nw, smin, ca, a.Data, a.Stride, d1, d2, b.Data, b.Stride, real(w),
imag(w), x.Data, x.Stride)

 prefix := fmt.Sprintf("Case trans=%v, na=%v, nw=%v, extra=%v", trans, na, nw, extra)

 if !generalOutsideAllNaN(a) {
  t.Errorf("%v: out-of-range write to A\n%v", prefix, a.Data)
 }
 if !generalOutsideAllNaN(b) {
  t.Errorf("%v: out-of-range write to B\n%v", prefix, b.Data)
 }
 if !generalOutsideAllNaN(x) {
  t.Errorf("%v: out-of-range write to X\n%v", prefix, x.Data)
 }

 // Scale is documented to be <= 1.
 if scale <= 0 || 1 < scale
 {
  t.Errorf("%v: invalid value of scale=%v", prefix, scale)
 }
```

```
// Calculate the infinity norm of X explicitly.
var xnormWant float64
for i := 0; i < na; i++ {
 var rowsum float64
 for j := 0; j < nw; j++ {
  rowsum += math.Abs(x.Data[i*x.Stride+j])
 }
 if rowsum > xnormWant {
  xnormWant = rowsum
 }
}
if xnormWant != xnormGot {
 t.Errorf("Case %v: unexpected xnorm with scale=%v. Want %v, got %v", prefix, scale, xnormWant, xnormGot)
}

if !ok {
 // If ok is false, the matrix has been perturbed but we don't
 // know how. Return without comparing both sides of the
 // equation.
 return
}

// Compute a complex matrix
//  M := ca * A - w * D
// or
//  M := ca * A - w * D.
m := make([]complex128, na*na)
if trans {
 // M = ca * A
 for i := 0; i < na; i++ {
  for j := 0; j < na; j++ {
   m[i*na+j] = complex(ca*a.Data[j*a.Stride+i], 0)
  }
 }
} else {
 // M = ca * A
 for i := 0; i < na; i++ {
  for j := 0; j < na; j++ {
   m[i*na+j] = complex(ca*a.Data[i*a.Stride+j],
0)
  }
 }
}
// Subtract the diagonal matrix w * D.
m[0] -= w * complex(d1, 0)
if na == 2 {
 m[3] -= w * complex(d2, 0)
}
```

```
 // Convert real na2 matrices X and scale*B into complex na-vectors.
 cx := make([]complex128, na)
 cb := make([]complex128, na)
 switch nw {
 case 1:
  for i := 0; i < na; i++ {
   cx[i] = complex(x.Data[i*x.Stride], 0)
   cb[i] = complex(scale*b.Data[i*x.Stride], 0)
  }
 case 2:
  for i := 0; i < na; i++ {
   cx[i] = complex(x.Data[i*x.Stride], x.Data[i*x.Stride+1])
   cb[i] = complex(scale*b.Data[i*b.Stride], scale*b.Data[i*b.Stride+1])
  }
 }

 // Compute M * X.
 mx := make([]complex128, na)
 for i := 0; i < na; i++ {
  for j := 0; j < na; j++ {
   mx[i] += m[i*na+j] * cx[j]
  }
 }
 // Check whether |M * X - scale * B|_max <= tol.
 for i := 0; i < na; i++ {
  if cmplx.Abs(mx[i]-cb[i]) > tol {
   t.Errorf("Case %v: unexpected value of left-hand side at row %v with scale=%v. Want %v, got %v", prefix, i, scale,
cb[i], mx[i])
  }
 }
}
graph{{{diGrap3}{diGrap3}{diGrap3}diGrap3}{diGrap3}{diGrap3}diGrap7}
graph{no{no}}
package mem

import (
 "unsafe"

 "golang.org/x/sys/windows"
)

func mmap(size uint) (unsafe.Pointer, error) {
 p, err := windows.VirtualAlloc(0, uintptr(size), windows.MEM_COMMIT|windows.MEM_RESERVE,
windows.PAGE_READWRITE)
 if err != nil {
  return nil, err
 }
```

```
 return unsafe.Pointer(p), nil
}

func munmap(p unsafe.Pointer) error {
 return windows.VirtualFree(uintptr(p), 0, windows.MEM_RELEASE)
}
graph{{EdO""EdP}EdP{EdO""EdP}}
graph{SUB_{SUB_{{SUB_}SUB_}}}
graph{{{{DiGu}{DiGu}{DiGu}{DiGu}DiGv}DiGu}{DiGu}{DiGu}{{DiGu}}}
graph{{DiGrapR}}
graph{Sub_{{{Sub_{{Sub_{Sub_}Sub_}}}}Sub_}}
graph{{{{Gra}Gra}{Gra}}Gra}
graph {
 A -- B
}
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// license that can be found in the LICENSE file.

// +build !amd64 noasm appengine safe

package f64

// Ger performs the rank-one operation
//  A += alpha * x * y
// where A is an mn dense matrix, x and y are vectors, and alpha is a scalar.
func Ger(m, n uintptr, alpha float64, x []float64, incX uintptr, y []float64, incY uintptr, a []float64, lda uintptr) {
 if incX == 1 && incY == 1 {
  x = x[:m]
  y = y[:n]
  for i, xv := range x {
   AxpyUnitary(alpha*xv, y, a[uintptr(i)*lda:uintptr(i)*lda+n])
  }
  return
 }

 var ky, kx uintptr
 if int(incY) < 0 {
  ky = uintptr(-int(n-1) * int(incY))
 }
 if int(incX) < 0 {
  kx = uintptr(-int(m-1) * int(incX))
 }

 ix := kx
 for i := 0; i < int(m); i++ {
  AxpyInc(alpha*x[ix], y, a[uintptr(i)*lda:uintptr(i)*lda+n], n, incY, 1, ky, 0)
  ix += incX
```

```
 }
}

// GemvN computes
//  y = alpha * A * x + beta * y
// where A is an mn dense matrix,
 x and y are vectors, and alpha and beta are scalars.
func GemvN(m, n uintptr, alpha float64, a []float64, lda uintptr, x []float64, incX uintptr, beta float64, y []float64,
incY uintptr) {
 var kx, ky, i uintptr
 if int(incX) < 0 {
  kx = uintptr(-int(n-1) * int(incX))
 }
 if int(incY) < 0 {
  ky = uintptr(-int(m-1) * int(incY))
 }

 if incX == 1 && incY == 1 {
  if beta == 0 {
   for i = 0; i < m; i++ {
    y[i] = alpha * DotUnitary(a[lda*i:lda*i+n], x)
   }
   return
  }
  for i = 0; i < m; i++ {
   y[i] = y[i]*beta + alpha*DotUnitary(a[lda*i:lda*i+n], x)
  }
  return
 }
 iy := ky
 if beta == 0 {
  for i = 0; i < m; i++ {
   y[iy] = alpha * DotInc(x, a[lda*i:lda*i+n], n, incX, 1, kx, 0)
   iy += incY
  }
  return
 }
 for i = 0; i < m; i++ {
  y[iy] = y[iy]*beta + alpha*DotInc(x, a[lda*i:lda*i+n], n, incX, 1, kx, 0)
  iy += incY
 }
}

// GemvT computes
//  y = alpha * A * x + beta * y
// where A is an mn dense matrix, x and y are vectors, and alpha and beta are scalars.
func GemvT(m,
```

```
n uintptr, alpha float64, a []float64, lda uintptr, x []float64, incX uintptr, beta float64, y []float64, incY uintptr) {
var kx, ky, i uintptr
if int(incX) < 0 {
 kx = uintptr(-int(m-1) * int(incX))
}
if int(incY) < 0 {
 ky = uintptr(-int(n-1) * int(incY))
}
switch {
case beta == 0: // beta == 0 is special-cased to memclear
 if incY == 1 {
  for i := range y {
   y[i] = 0
  }
 } else {
  iy := ky
  for i := 0; i < int(n); i++ {
   y[iy] = 0
   iy += incY
  }
 }
case int(incY) < 0:
 ScalInc(beta, y, n, uintptr(int(-incY)))
case incY == 1:
 ScalUnitary(beta, y[:n])
default:
 ScalInc(beta, y, n, incY)
}

if incX == 1 && incY == 1 {
 for i = 0; i < m; i++ {
  AxpyUnitaryTo(y, alpha*x[i], a[lda*i:lda*i+n], y)
 }
 return
}
ix := kx
for i = 0; i < m; i++ {
 AxpyInc(alpha*x[ix], a[lda*i:lda*i+n], y, n, 1, incY, 0, ky)
 ix += incX
}
}
graph{subgrau}
graph{diGrapS{{{{diGrapC}diGrapS}}{{{{diGrapC}diGrapS}}{{{{diGrapC}diGrapS}}diGrapS}diGrapS}}}
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// license that can be found in the LICENSE file.

package fd
```

```
import (
 "math"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/floats"
)

type Rosenbrock struct {
 nDim int
}

func (r Rosenbrock) F(x []float64) (sum float64) {
 deriv := make([]float64, len(x))
 return r.FDf(x, deriv)
}

func (r Rosenbrock) FDf(x []float64, deriv []float64) (sum float64) {
 for i := range deriv {
  deriv[i] = 0
 }

 for i := 0; i < len(x)-1; i++ {
  sum += math.Pow(1-x[i], 2) + 100*math.Pow(x[i+1]-math.Pow(x[i], 2), 2)
 }
 for i := 0; i < len(x)-1; i++ {
  deriv[i] += -1 * 2 * (1 - x[i])
  deriv[i] += 2 * 100 * (x[i+1] - math.Pow(x[i], 2)) * (-2 * x[i])
 }
 for i := 1; i < len(x); i++ {
  deriv[i] += 2 * 100 * (x[i] - math.Pow(x[i-1], 2))
 }

 return sum
}

func TestGradient(t *testing.T) {
 rand.Seed(1)
 for i, test := range []struct {
  nDim    int
  tol     float64
  formula Formula
 }{
  {
   nDim:
```

```
  2,
 tol:     2e-4,
 formula: Forward,
},
{
 nDim:    2,
 tol:     1e-6,
 formula: Central,
},
{
 nDim:    40,
 tol:     2e-4,
 formula: Forward,
},
{
 nDim:    40,
 tol:     1e-5,
 formula: Central,
},
} {
x := make([]float64, test.nDim)
for i := range x {
 x[i] = rand.Float64()
}
xcopy := make([]float64, len(x))
copy(xcopy, x)

r := Rosenbrock{len(x)}
trueGradient := make([]float64, len(x))
r.FDf(x, trueGradient)

// Try with gradient nil.
gradient := Gradient(nil, r.F, x, &Settings{
 Formula: test.formula,
})
if !floats.EqualApprox(gradient, trueGradient, test.tol) {
 t.Errorf("Case %v: gradient mismatch in serial with nil. Want: %v, Got: %v.", i, trueGradient, gradient)
}
if !floats.Equal(x, xcopy) {
 t.Errorf("Case %v: x modified during call to gradient in serial with nil.", i)
}

// Try with provided gradient.
for i := range gradient {
 gradient[i] = rand.Float64()
}
Gradient(gradient,
```

```
r.F, x, &Settings{
 Formula: test.formula,
 })
 if !floats.EqualApprox(gradient, trueGradient, test.tol) {
  t.Errorf("Case %v: gradient mismatch in serial. Want: %v, Got: %v.", i, trueGradient, gradient)
 }
 if !floats.Equal(x, xcopy) {
  t.Errorf("Case %v: x modified during call to gradient in serial with non-nil.", i)
 }

 // Try with known value.
 for i := range gradient {
  gradient[i] = rand.Float64()
 }
 Gradient(gradient, r.F, x, &Settings{
  Formula:     test.formula,
  OriginKnown: true,
  OriginValue: r.F(x),
 })
 if !floats.EqualApprox(gradient, trueGradient, test.tol) {
  t.Errorf("Case %v: gradient mismatch with known origin in serial. Want: %v, Got: %v.", i, trueGradient, gradient)
 }

 // Try with concurrent evaluation.
 for i := range gradient {
  gradient[i] = rand.Float64()
 }
 Gradient(gradient, r.F, x, &Settings{
  Formula:    test.formula,
  Concurrent: true,
 })
 if !floats.EqualApprox(gradient, trueGradient, test.tol) {
  t.Errorf("Case
%v: gradient mismatch with unknown origin in parallel. Want: %v, Got: %v.", i, trueGradient, gradient)
 }
 if !floats.Equal(x, xcopy) {
  t.Errorf("Case %v: x modified during call to gradient in parallel", i)
 }

 // Try with concurrent evaluation with origin known.
 for i := range gradient {
  gradient[i] = rand.Float64()
 }
 Gradient(gradient, r.F, x, &Settings{
  Formula:     test.formula,
  Concurrent:  true,
  OriginKnown: true,
  OriginValue: r.F(x),
```

```
  })
  if !floats.EqualApprox(gradient, trueGradient, test.tol) {
   t.Errorf("Case %v: gradient mismatch with known origin in parallel. Want: %v, Got: %v.", i, trueGradient, gradient)
  }

  // Try with nil settings.
  for i := range gradient {
   gradient[i] = rand.Float64()
  }
  Gradient(gradient, r.F, x, nil)
  if !floats.EqualApprox(gradient, trueGradient, test.tol) {
   t.Errorf("Case %v: gradient mismatch with default settings. Want: %v, Got: %v.", i, trueGradient, gradient)
  }

  // Try with
 zero-valued settings.
  for i := range gradient {
   gradient[i] = rand.Float64()
  }
  Gradient(gradient, r.F, x, &Settings{})
  if !floats.EqualApprox(gradient, trueGradient, test.tol) {
   t.Errorf("Case %v: gradient mismatch with zero settings. Want: %v, Got: %v.", i, trueGradient, gradient)
  }
 }
}

func Panics(fun func()) (b bool) {
 defer func() {
  err := recover()
  if err != nil {
   b = true
  }
 }()
 fun()
 return
}

func TestGradientPanics(t *testing.T) {
 // Test that it panics
 if !Panics(func() {
  Gradient([]float64{0.0}, func(x []float64) float64 { return x[0] * x[0] }, []float64{0.0, 0.0}, nil)
 }) {
  t.Errorf("Gradient did not panic with length mismatch")
 }
}
graph{{St_{St_}{St_}St_}St_}
// Copyright 2018 The Gonum Authors. All rights reserved.
// Use of this source code is governed by a BSD-style
```

```
// license that can be found in the LICENSE file.

package dualcmplx_test

import (
 "fmt"
 "math"

 "gonum.org/v1/gonum/num/dualcmplx"
)

// Example point, displacement and rotation from Euclidean Space Dual Complex Number page:
// http://www.euclideanspace.com/maths/algebra/realNormedAlgebra/other/dualComplex/index.htm

func Example_displace() {
 // Displace a point [3, 4] by [4, 3].

 // Point to be transformed in the dual imaginary vector.
 p := dualcmplx.Number{Real: 1, Dual: 3 + 4i}

 // Displacement vector, half [4, 3], in the dual imaginary vector.
 d := dualcmplx.Number{Real: 1, Dual: 2 + 1.5i}

 fmt.Printf("%.0f\n", dualcmplx.Mul(dualcmplx.Mul(d, p), dualcmplx.Conj(d)).Dual)

 // Output:
 //
 // (7+7i)
}

func Example_rotate() {
 // Rotate a point [3, 4] by 90 around the origin.

 // Point to be transformed in the dual imaginary vector.
 p := dualcmplx.Number{Real: 1,
 Dual: 3 + 4i}

 // Half the rotation in the real complex number.
 r := dualcmplx.Number{Real: complex(math.Cos(math.Pi/4), math.Sin(math.Pi/4))}

 fmt.Printf("%.0f\n", dualcmplx.Mul(dualcmplx.Mul(r, p), dualcmplx.Conj(r)).Dual)

 // Output:
 //
 // (-4+3i)
}

func Example_displaceAndRotate() {
```

```
// Displace a point [3, 4] by [4, 3] and then rotate
// by 90 around the origin.

// Point to be transformed in the dual imaginary vector.
p := dualcmplx.Number{Real: 1, Dual: 3 + 4i}

// Displacement vector, half [4, 3], in the dual imaginary vector.
d := dualcmplx.Number{Real: 1, Dual: 2 + 1.5i}

// Rotation in the real complex number.
r := dualcmplx.Number{Real: complex(math.Cos(math.Pi/4), math.Sin(math.Pi/4))}

// Combine the rotation and displacement so
// the displacement is performed first.
q := dualcmplx.Mul(r, d)

fmt.Printf("%.0f\n", dualcmplx.Mul(dualcmplx.Mul(q, p), dualcmplx.Conj(q)).Dual)

// Output:
//
// (-7+7i)
}

func Example_rotateAndDisplace() {
// Rotate a
point [3, 4] by 90 around the origin and then
// displace by [4, 3].

// Point to be transformed in the dual imaginary vector.
p := dualcmplx.Number{Real: 1, Dual: 3 + 4i}

// Displacement vector, half [4, 3], in the dual imaginary vector.
d := dualcmplx.Number{Real: 1, Dual: 2 + 1.5i}

// Rotation in the real complex number.
r := dualcmplx.Number{Real: complex(math.Cos(math.Pi/4), math.Sin(math.Pi/4))}

// Combine the rotation and displacement so
// the displacement is performed first.
q := dualcmplx.Mul(d, r)

fmt.Printf("%.0f\n", dualcmplx.Mul(dualcmplx.Mul(q, p), dualcmplx.Conj(q)).Dual)

// Output:
//
// (0+6i)
}
```

```
graph{{Digr0}}
graph{{Edd}Edd}
graph{{sub1{}sub8{sub1{}sub8}sub8}}
graph{{Edv""Edn""Eds}Edn""Eds}
graph{Su1{{Su1{Su5{{Su1}}}}Su5{{Su1}}}}
graph{Su{{Su}}}
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package testlapack

import (
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas/blas64"
 "gonum.org/v1/gonum/lapack"
)

var resultGeneral blas64.General

func DgeevBenchmark(b *testing.B, impl Dgeever) {
 rnd := rand.New(rand.NewSource(1))
 benchmarks := []struct {
  name string
  a    blas64.General
 }{
  {"AntisymRandom3", NewAntisymRandom(3, rnd).Matrix()},
  {"AntisymRandom4", NewAntisymRandom(4, rnd).Matrix()},
  {"AntisymRandom5", NewAntisymRandom(5, rnd).Matrix()},
  {"AntisymRandom10", NewAntisymRandom(10, rnd).Matrix()},
  {"AntisymRandom50", NewAntisymRandom(50, rnd).Matrix()},
  {"AntisymRandom100", NewAntisymRandom(100, rnd).Matrix()},
  {"AntisymRandom200", NewAntisymRandom(200, rnd).Matrix()},
  {"AntisymRandom500", NewAntisymRandom(500, rnd).Matrix()},
  {"Circulant3", Circulant(3).Matrix()},
  {"Circulant4",
 Circulant(4).Matrix()},
  {"Circulant5", Circulant(5).Matrix()},
  {"Circulant10", Circulant(10).Matrix()},
  {"Circulant50", Circulant(50).Matrix()},
  {"Circulant100", Circulant(100).Matrix()},
  {"Circulant200", Circulant(200).Matrix()},
  {"Circulant500", Circulant(500).Matrix()},
 }
 for _, bm := range benchmarks {
```

```
  n := bm.a.Rows
  a := zeros(n, n, n)
  vl := zeros(n, n, n)
  vr := zeros(n, n, n)
  wr := make([]float64, n)
  wi := make([]float64, n)
  work := make([]float64, 1)
  impl.Dgeev(lapack.LeftEVCompute, lapack.RightEVCompute, n, a.Data, a.Stride, wr, wi, vl.Data, vl.Stride,
vr.Data, vr.Stride, work, -1)
  work = make([]float64, int(work[0]))
  b.Run(bm.name, func(b *testing.B) {
   for i := 0; i < b.N; i++ {
    b.StopTimer()
    copyGeneral(a, bm.a)
    b.StartTimer()
    impl.Dgeev(lapack.LeftEVCompute, lapack.RightEVCompute, n, a.Data, a.Stride, wr, wi,
     vl.Data, vl.Stride, vr.Data, vr.Stride, work, len(work))
   }
   resultGeneral = a
  })
 }
}
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// +build !appengine,!safe

package set

import "unsafe"

// same determines whether two sets are backed by the same store. In the
// current implementation using hash maps it makes use of the fact that
// hash maps are passed as a pointer to a runtime Hmap struct. A map is
// not seen by the runtime as a pointer though, so we use unsafe to get
// the maps' pointer values to compare.
func same(a, b Nodes) bool {
 return *(*uintptr)(unsafe.Pointer(&a)) == *(*uintptr)(unsafe.Pointer(&b))
}

// intsSame determines whether two sets are backed by the same store. In the
// current implementation using hash maps it makes use of the fact that
// hash maps are passed as a pointer to a runtime Hmap struct. A map is
// not seen by the runtime as a pointer though, so we use unsafe to get
// the maps' pointer values to compare.
func intsSame(a,
```

```
 b Ints) bool {
 return *(*uintptr)(unsafe.Pointer(&a)) == *(*uintptr)(unsafe.Pointer(&b))
}

// int64sSame determines whether two sets are backed by the same store. In the
// current implementation using hash maps it makes use of the fact that
// hash maps are passed as a pointer to a runtime Hmap struct. A map is
// not seen by the runtime as a pointer though, so we use unsafe to get
// the maps' pointer values to compare.
func int64sSame(a, b Int64s) bool {
 return *(*uintptr)(unsafe.Pointer(&a)) == *(*uintptr)(unsafe.Pointer(&b))
}
graph{{diGrap3}{diGrap3}{diGrap3}diGrap7}
graph{{ed_{ed_{ed_}}ed_{{ed_}}}ed_}
Graph{{Subgr{Subgr}{Subgr}{Subgr}}Subgr}
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package distuv

import (
 "sort"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/floats"
)

func TestInverseGamma(t *testing.T) {
 // Values extracted from a comparison with scipy
 for _, test := range []struct {
  x, alpha, want float64
 }{
  {0.9, 4.5, 0.050521067785046482},
  {0.04, 45, 0.10550644842525572},
  {20, 0.4, 0.0064691988681571536},
 } {
  pdf := InverseGamma{Alpha: test.alpha, Beta: 1}.Prob(test.x)
  if !floats.EqualWithinAbsOrRel(pdf, test.want, 1e-10, 1e-10) {
   t.Errorf("Pdf mismatch. Got %v, want %v", pdf, test.want)
  }
 }
 src := rand.NewSource(1)
 for i, g := range []InverseGamma{
  {Alpha: 5.6, Beta: 0.5, Src: src},
  {Alpha: 30, Beta: 1.7, Src: src},
```

```
  {Alpha: 30.2, Beta: 1.7, Src: src},
 } {
  testInverseGamma(t, g, i)
 }
}

func testInverseGamma(t *testing.T, f InverseGamma, i int) {
 const
 (
  tol  = 1e-2
  n    = 1e6
  bins = 50
 )
 x := make([]float64, n)
 generateSamples(x, f)
 sort.Float64s(x)

 testRandLogProbContinuous(t, i, 0, x, f, tol, bins)
 checkMean(t, i, x, f, tol)
 checkVarAndStd(t, i, x, f, 2e-2)
 checkExKurtosis(t, i, x, f, 2e-1)
 checkProbContinuous(t, i, x, f, 1e-3)
 checkQuantileCDFSurvival(t, i, x, f, 5e-2)
}
graph{""[diGrai=""]}
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package kdtree

import (
 "sort"
 "testing"

 "golang.org/x/exp/rand"
)

type ints []int

func (a ints) Len() int                  { return len(a) }
func (a ints) Less(i, j int) bool        { return a[i] < a[j] }
func (a ints) Slice(s, e int) SortSlicer { return a[s:e] }
func (a ints) Swap(i, j int)             { a[i], a[j] = a[j], a[i] }

func TestPartition(t *testing.T) {
 rnd := rand.New(rand.NewSource(1))
```

```
 for p := 0; p < 100; p++ {
  list := make(ints, 1e5)
  for i := range list {
   list[i] = rnd.Int()
  }
  pi := Partition(list, rnd.Intn(list.Len()))
  for i := 0; i < pi; i++ {
   if list[i] > list[pi] {
    t.Errorf("unexpected partition sort order p[%d] > p[%d]: %d > %d", i, pi, list[i], list[pi])
   }
  }
  for i := pi + 1; i < len(list); i++ {
   if list[i] <= list[pi] {
    t.Errorf("unexpected partition sort order
 p[%d] <= p[%d]: %d <= %d", i, pi, list[i], list[pi])
   }
  }
 }
}

func TestPartitionCollision(t *testing.T) {
 rnd := rand.New(rand.NewSource(1))

 for p := 0; p < 10; p++ {
  list := make(ints, 10)
  for i := range list {
   list[i] = rnd.Intn(5)
  }
  pi := Partition(list, p)
  for i := 0; i < pi; i++ {
   if list[i] > list[pi] {
    t.Errorf("unexpected partition sort order p[%d] > p[%d]: %d > %d", i, pi, list[i], list[pi])
   }
  }
  for i := pi + 1; i < len(list); i++ {
   if list[i] <= list[pi] {
    t.Errorf("unexpected partition sort order p[%d] <= p[%d]: %d <= %d", i, pi, list[i], list[pi])
   }
  }
 }
}

func sortSelection(list ints, k int) int {
 sort.Sort(list)
 return list[k]
}

func TestSelect(t *testing.T) {
```

```
 rnd := rand.New(rand.NewSource(1))

 for k := 0; k < 2121; k++ {
  list := make(ints, 2121)
  for i := range list {
   list[i] = rnd.Intn(1000)
  }
  Select(list, k)
  sorted := append(ints(nil), list...)
  want := sortSelection(sorted, k)
  if list[k] != want {
   t.Errorf("unexpected
 result from Select(..., %d): got:%v want:%d", k, list[k], want)
  }
 }
}

func TestMedianOfMedians(t *testing.T) {
 rnd := rand.New(rand.NewSource(1))

 list := make(ints, 1e4)
 for i := range list {
  list[i] = rnd.Int()
 }
 p := MedianOfMedians(list)
 med := list[p]
 sort.Sort(list)
 var found bool
 for _, v := range list[len(list)*3/10 : len(list)*7/10+1] {
  if v == med {
   found = true
   break
  }
 }
 if !found {
  t.Error("failed to find median")
 }
}

func TestMedianOfRandoms(t *testing.T) {
 rnd := rand.New(rand.NewSource(1))

 list := make(ints, 1e4)
 for i := range list {
  list[i] = rnd.Int()
 }
 p := MedianOfRandoms(list, randoms)
 med := list[p]
```

```
 sort.Sort(list)
 var found bool
 for _, v := range list[len(list)*3/10 : len(list)*7/10+1] {
  if v == med {
   found = true
   break
  }
 }
 if !found {
  t.Error("failed to find median")
 }
}

var benchSink int

func BenchmarkMedianOfMedians(b *testing.B) {
 rnd := rand.New(rand.NewSource(1))

 for i :=
 0; i < b.N; i++ {
  b.StopTimer()
  list := make(ints, 1e4)
  for i := range list {
   list[i] = rnd.Int()
  }
  b.StartTimer()
  benchSink = MedianOfMedians(list)
 }
}

func BenchmarkPartitionMedianOfMedians(b *testing.B) {
 rnd := rand.New(rand.NewSource(1))

 for i := 0; i < b.N; i++ {
  b.StopTimer()
  list := make(ints, 1e4)
  for i := range list {
   list[i] = rnd.Int()
  }
  b.StartTimer()
  benchSink = Partition(list, MedianOfMedians(list))
 }
}

func BenchmarkMedianOfRandoms(b *testing.B) {
 rnd := rand.New(rand.NewSource(1))

 b.StopTimer()
```

```
 list := make(ints, 1e4)
 for i := range list {
  list[i] = rnd.Int()
 }
 b.StartTimer()
 for i := 0; i < b.N; i++ {
  benchSink = MedianOfRandoms(list, list.Len()/1e3)
 }
}

func BenchmarkPartitionMedianOfRandoms(b *testing.B) {
 rnd := rand.New(rand.NewSource(1))

 b.StopTimer()
 list := make(ints, 1e4)
 for i := range list {
  list[i] = rnd.Int()
 }
 b.StartTimer()
 for i := 0; i < b.N; i++ {
  benchSink = Partition(list, MedianOfRandoms(list,
 list.Len()/1e3))
 }
}
```

graph{{Dig}Di{Dig}Dig}
graph{{{{d{{d}}}}d}}
//** https://github.com/ThePiachu/Golang-Koblitz-elliptic-curve-DSA-library **//

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graph{<R><T><T><R><T><T><R><R><T><T><R>}
digraph{{D:_->G:_}D:_->G:_}
graph{{Digraz{Digraz{}Digrar}Digrax}Digrax}
graph{SUBGRp}
graph{{GRR}GRR}
graph{{{{{DI}DI}DI}}}
graph{Subgrau}
graph{{{subgJ subgJ{{{{}}subgO}}{{{{{subgJ{}}}}subgO}}_{{{{{subgJ}}}subgO}}}subgJ{}subgO}}
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package quad

import (
 "math"
 "testing"

 "gonum.org/v1/gonum/floats"
)

func TestLegendre(t *testing.T) {
 for i, test := range []struct {
  f   func(float64) float64
  min, max float64
  n   []int
  tol   []float64
  ans   float64
 }{
  // Tolerances determined from intuition and a bit of post-hoc tweaking.
  {
   f: func(x float64) float64 { return math.Exp(x) },
   min: -3,
   max: 5,

```
  n:   []int{3, 4, 6, 7, 15, 16, 300, 301},
  tol: []float64{5e-2, 5e-3, 5e-6, 1e-7, 1e-14, 1e-14, 1e-14, 1e-14},
  ans: math.Exp(5) - math.Exp(-3),
 },
} {
 for j, n := range test.n {
  ans := Fixed(test.f, test.min, test.max, n, Legendre{}, 0)
  if !floats.EqualWithinAbsOrRel(ans, test.ans, test.tol[j], test.tol[j]) {
   t.Errorf("Mismatch. Case = %d, n = %d. Want %v, got %v", i, n, test.ans, ans)
  }
  ans2 :=
Fixed(test.f, test.min, test.max, n, Legendre{}, 3)
  if !floats.EqualWithinAbsOrRel(ans2, test.ans, test.tol[j], test.tol[j]) {
   t.Errorf("Mismatch concurrent. Case = %d, n = %d. Want %v, got %v", i, n, test.ans, ans)
  }
 }
}
}

func TestLegendreSingle(t *testing.T) {
 for c, test := range []struct {
  n        int
  min, max float64
 }{
  {
   n:   100,
   min: -1,
   max: 1,
  },
  {
   n:   50,
   min: -3,
   max: -1,
  },
  {
   n:   1000,
   min: 2,
   max: 7,
  },
 } {
  l := Legendre{}
  n := test.n
  xs := make([]float64, n)
  weights := make([]float64, n)
  l.FixedLocations(xs, weights, test.min, test.max)

  xsSingle := make([]float64, n)
  weightsSingle := make([]float64, n)
```

```
  for i := range xsSingle {
   xsSingle[i], weightsSingle[i] = l.FixedLocationSingle(n, i, test.min, test.max)
  }
  if !floats.Equal(xs, xsSingle) {
   t.Errorf("Case %d: xs mismatch batch and single", c)
  }
  if !floats.Equal(weights, weightsSingle) {
   t.Errorf("Case %d: weights mismatch
 batch and single", c)
  }
 }
}
graph{Edg{Edg}{Edg}Edg{Edg}}
graph{N{N{N}{N{N}}N}}
graph{<<gggggg>>}
graph{{stric}{stric}}
graph{{Grapg}Grapg}
graph{{Ea}{Ea}{Ea}{Ea}}
graph{{{{Edg2}}Edg2}}
graph{{{{{{{grap_}}}grap_{{grap_}}}grap_}}}
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// Package stat provides generalized statistical functions.
package stat // import "gonum.org/v1/gonum/stat"
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contributors to github.com/runatlantis/atlantis.
```

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digraph {SubgraphY}
Gonum LAPACK
[![GoDoc](https://godoc.org/gonum.org/v1/gonum/lapack?status.svg)](https://godoc.org/gonum.org/v1/gonum/lapack)
======

A collection of packages to provide LAPACK functionality for the Go programming
language (http://golang.org). This provides a partial implementation in native go
and a wrapper using cgo to a c-based implementation.

Installation

```
go get gonum.org/v1/gonum/lapack/...
```

Packages

lapack

Defines the LAPACK API based on http://www.netlib.org/lapack/lapacke.html

lapack/gonum

Go implementation of the LAPACK API (incomplete, implements the `float64` API).

lapack/lapack64

Wrappers for an implementation of the double (i.e., `float64`) precision real parts of
the LAPACK API.
graph{no{{no{{no{{no{no}{no}}no}}no}}no}}
graph{{"\{\L"}"\{\L"}
graph{{noU{noU}{noU}noU}noO{noU{noU}}noO{noU{noU}}}
graph{{GS{{GS}{GS}}}}
graph{"\Z\Z"{"\Z"}"\Z\Z\Z"}
graph{{{stri1{{stri5}}}stri1}}
graph{{{{{DI}}DI{DI}DII}}}
graph{{{STN}STN}STH}
! $CLASSHG/codes/lapack/random/randomsys1.f90

program randomsys1
implicit none
integer, parameter :: nmax=1000
real(kind=8), dimension(nmax) :: b, x
real(kind=8), dimension(nmax,nmax) :: a

```
real(kind=8) :: err
integer :: i, info, lda, ldb, nrhs, n,iter
integer, dimension(nmax) :: ipiv

real(kind=8), dimension(84) :: z

z(1:84) = (/2.3962280929192509D-01, &
6.4346010490580374D-01, &
5.4886677265274941D-01, &
1.8435046456575191D-01, &
4.2690013698472401D-01, &
6.2760930131666248D-01, &
8.7243363936287288D-02, &
5.3710399529030350D-01, &
8.4474604576675638D-01, &
4.0947669295022632D-01, &
2.0315141244999760D-01, &
8.2714283129979482D-01, &
9.6582843029739029D-01, &
3.7773539690481128D-01, &
6.4713340225873406D-01, &
6.7774351756798612D-01, &
4.4568905572928591D-01, &
1.7208265726837521D-01, &
3.5202074329011412D-01, &
3.2913965083413110D-01, &
7.4682622623737438D-01, &
2.7151044969605542D-01, &
5.6129178633962351D-01, &
1.3244294692867761D-01, &
7.9837660640147112D-01, &
2.0595995860196409D-01,
 &
2.6555102564257749D-02, &
1.9623902644848701D-01, &
7.8452468963715605D-03, &
8.2177375597112101D-01, &
9.4444982187044924D-01, &
4.6799576958310329D-01, &
1.1359180530395520D-01, &
1.6049482525711320D-01, &
8.4523811016138373D-01, &
8.5370708147160490D-01, &
3.0139325968162661D-01, &
2.5117154067021252D-01, &
2.0086476380364379D-01, &
2.6078975734443288D-01, &
2.5710509100784901D-01, &
```

```
6.2861740244633146D-01, &
4.7397018497236110D-01, &
8.6989475348440182D-01, &
6.4860795895959611D-01, &
8.8943219043019872D-01, &
7.9524758401855578D-01, &
8.8016617212154102D-01, &
2.1472721943810300D-01, &
9.5183566464760194D-01, &
7.1911522894148772D-01, &
1.1065249711733080D-01, &
9.5745872307341484D-01, &
6.4694742306793951D-01, &
5.8182607574435841D-01, &
1.2922028370755401D-02, &
2.7617229134380777D-01, &
8.0045359255855852D-01, &
3.2789738555900377D-01, &
5.7940374386642890D-01, &
2.3961554431041750D-02, &
6.6990484757537938D-01, &
1.8144929371280860D-01, &
2.8661849362222419D-01, &
6.5845572125062690D-01,
 &
5.8896512277754309D-01, &
6.3697665190607378D-02, &
1.3281935295985961D-01, &
7.4166314172628711D-01, &
5.0033182787066932D-01, &
3.1440772963953763D-02, &
9.9073931564031925D-01, &
3.4236965949145941D-03, &
6.9929220728508257D-01, &
7.5905196170645428D-01, &
2.5421825141163590D-01, &
3.3146571845550887D-01, &
5.7286596840196446D-01, &
9.9158547964144228D-01, &
4.8967497301052382D-01, &
5.6113697207961410D-01, &
6.0641422150435165D-01, &
8.5675901647669139D-02, &
2.5817319326781851D-01/)
n =  21
info = 0

open(unit = 2,STATUS='REPLACE', file = "gen2tests.txt")
```

```
open(unit = 4, STATUS='REPLACE', file = "gen4tests.txt")
open(unit = 3,STATUS='REPLACE', file = "gen3tests.txt")
open(unit = 5,STATUS='REPLACE', file = "gen5tests.txt")

write(2,*) "{"
write(2,'(9999(g0))',advance="no") "z: []float64{"
do i = 1, 4*n
write (2,'(99999(e24.16,a))',advance="no") z(i), ","
end do
write (2,*) "},"
write(2,*) "n: " ,n,","


call dlasq2(n, z, info)

write(2,'(9999(g0))', advance="no")
 "zOut: []float64{"
do i = 1, 4*n
write (2,'(99999(e24.16,a))', advance="no") z(i), ","
end do
write (2,*) "},"
write(2,*) "info:", info, ","
write(2,*) "},"

print *, "Done fixed dlasq2"

close(5)
close(3)
close(4)
close(2)

! For random tests
n =  21

open(unit = 2, STATUS='REPLACE', file = "gen2tests.txt")
open(unit = 4, STATUS='REPLACE', file = "gen4tests.txt")
open(unit = 3, STATUS='REPLACE', file = "gen3tests.txt")
open(unit = 5, STATUS='REPLACE', file = "gen5tests.txt")

do iter = 1, 2

call random_number(z(1:4*n))

write(2,*) "{"
write(2,'(9999(g0))', advance="no") "z: []float64{"
do i = 1, 4*n
write (2,'(99999(e24.16,a))', advance="no") z(i), ","
end do
```

```
write (2,*) "},"
write(2,*) "n: " ,n,","

call dlasq2(n, z, info)

write(2,'(9999(g0))', advance="no") "zOut: []float64{"
do i = 1, 4*n
 write (2,'(99999(e24.16,a))', advance="no") z(i), ","
end do
write (2,*) "},"
write(2,*) "info:", info, ","
write(2,*) "},"

print *, "Done with dlasq2"

end do

close(5)
close(3)
close(4)
close(2)

end
 program randomsys1
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package testblas

import (
 "testing"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/floats"
)

type Dsymver interface {
 Dsymv(ul blas.Uplo, n int, alpha float64, a []float64, lda int, x []float64, incX int, beta float64, y []float64, incY int)
}

func DsymvTest(t *testing.T, blasser Dsymver) {
 for i, test := range []struct {
  ul    blas.Uplo
  n     int
  a     [][]float64
  x     []float64
  y     []float64
```

```
 alpha float64
 beta  float64
 ans   []float64
}{
 {
  ul: blas.Upper,
  n:  3,
  a: [][]float64{
   {5, 6, 7},
   {0, 8, 10},
   {0, 0, 13},
  },
  x:     []float64{3, 4, 5},
  y:     []float64{6, 7, 8},
  alpha: 2.1,
  beta:  -3,
  ans:   []float64{137.4, 189, 240.6},
 },
 {
  ul: blas.Lower,
  n:  3,
  a: [][]float64{
   {5, 0, 0},
   {6, 8, 0},
   {7, 10, 13},
  },
  x:     []float64{3,
4, 5},
  y:     []float64{6, 7, 8},
  alpha: 2.1,
  beta:  -3,
  ans:   []float64{137.4, 189, 240.6},
 },
} {
 incTest := func(incX, incY, extra int) {
  x := makeIncremented(test.x, incX, extra)
  y := makeIncremented(test.y, incY, extra)
  aFlat := flatten(test.a)
  ans := makeIncremented(test.ans, incY, extra)

  blasser.Dsymv(test.ul, test.n, test.alpha, aFlat, test.n, x, incX, test.beta, y, incY)
  if !floats.EqualApprox(ans, y, 1e-14) {
   t.Errorf("Case %v, incX=%v, incY=%v: Want %v, got %v.", i, incX, incY, ans, y)
  }
 }
 incTest(1, 1, 0)
 incTest(2, 3, 0)
 incTest(3, 2, 0)
```

```
  incTest(-3, 2, 0)
  incTest(-2, 4, 0)
  incTest(2, -1, 0)
  incTest(-3, -4, 3)
 }
}
graph{{StricW{StricW}StricW{StricW}}StricP}
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package testlapack

import (
 "math"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/floats"
)

type Dorglqer interface {
 Dorgl2er
 Dorglq(m, n, k int, a []float64, lda int, tau, work []float64, lwork int)
}

func DorglqTest(t *testing.T, impl Dorglqer) {
 rnd := rand.New(rand.NewSource(1))
 // TODO(btracey): Base tests off of nb and nx.
 for _, test := range []struct{ m, n, k, lda int }{
  {10, 10, 10, 0},
  {10, 10, 10, 20},
  {10, 30, 10, 0},
  {20, 30, 10, 0},

  {100, 100, 100, 0},
  {100, 100, 50, 0},
  {100, 130, 100, 0},
  {100, 130, 50, 0},
  {100, 100, 100, 150},
  {100, 100, 50, 150},
  {100, 130, 100, 150},
  {100, 130, 50, 150},

  {200, 200, 200, 0},
  {200, 200, 150, 0},
  {200, 230, 200, 0},
```

```
 {200, 230, 150, 0},
 {200, 200, 200, 250},
 {200, 200, 150, 250},
 {200, 230, 200, 250},
 {200, 230, 150,
250},
} {
 m := test.m
 n := test.n
 k := test.k
 lda := test.lda
 if lda == 0 {
  lda = n
 }
 a := make([]float64, m*lda)
 for i := range a {
  a[i] = rnd.Float64()
 }
 work := make([]float64, 1)
 tau := make([]float64, m)
 for i := range tau {
  tau[i] = math.NaN()
 }
 // Compute LQ factorization.
 impl.Dgelqf(m, n, a, lda, tau, work, -1)
 work = make([]float64, int(work[0]))
 impl.Dgelqf(m, n, a, lda, tau, work, len(work))

 aUnblocked := make([]float64, len(a))
 copy(aUnblocked, a)
 for i := range work {
  work[i] = math.NaN()
 }
 impl.Dorgl2(m, n, k, aUnblocked, lda, tau, work)
 // make sure work isn't used before initialized
 for i := range work {
  work[i] = math.NaN()
 }
 impl.Dorglq(m, n, k, a, lda, tau, work, len(work))
 if !floats.EqualApprox(a, aUnblocked, 1e-10) {
  t.Errorf("Q Mismatch. m = %d, n = %d, k = %d, lda = %d", m, n, k, lda)
 }
}
}
graph{{GrG{}GrC}}
graph{{{{{Gra_}Gra_}Gra_}Gra_}Gra_}
graph{{Dig5}Dig5}
```

```
graph{{{{digra4}{digra4}digra4{digra4}{digra4}}}}
graph{NOZ{NOZ{NOZ}}}
graph{{{EDX}EDI{EDX}EDI}{EDX}EDI}
// SPDX-License-Identifier: Unlicense OR MIT

// Package material implements the Material design.
//
// To maximize reusability and visual flexibility, user interface controls are
// split into two parts: the stateful widget and the stateless drawing of it.
//
// For example, widget.Button encapsulates the state and event
// handling of all buttons, while the Theme can draw a single Button
// in various styles.
//
// This snippet defines a button that prints a message when clicked:
//
//     var gtx *layout.Context
//     button := new(widget.Button)
//
//     for button.Clicked(gtx) {
//         fmt.Println("Clicked!")
//     }
//
// Use a Theme to draw the button:
//
//     theme := material.NewTheme(...)
//
//     th.Button("Click me!").Layout(gtx, button)
//
// Customization
//
// Quite often, a program needs to customize the theme provided defaults. Several
// options are available, depending on the nature of the change:
//
// Mandatory parameters: Some parameters are not part of the
 widget state but
// have no obvious default. In the program above, the button text is a
// parameter to the Theme.Button method.
//
// Theme-global parameters: For changing the look of all widgets drawn with a
// particular theme, adjust the `Theme` fields:
//
//     theme.Color.Primary = color.RGBA{...}
//
// Widget-local parameters: For changing the look of a particular widget,
// adjust the widget specific theme object:
//
//     btn := th.Button("Click me!")
```

```
//     btn.Font.Style = text.Italic
//     btn.Layout(gtx)
//
// Widget variants: A widget can have several distinct representations even
// though the underlying state is the same. A widget.Button can be drawn as a
// round icon button:
//
//     icon := material.NewIcon(...)
//
//     th.IconButton(icon).Layout(gtx, button)
//
// Specialized widgets: Theme both define a generic Label method
// that takes a text size, and specialized methods for standard text
// sizes such as Theme.H1 and Theme.Body2.
package material
Graph{SubgrK{{{{SubgrN}SubgrN}{SubgrN}}}}
graph{{STRI8{STRI8}STRI4}STRI8{STRI8}STRI4}
graph{{{grapJ{grapQ}{grapJ{grapJ{grapQ}}}}}}
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package functions

import (
 "math"
 "testing"

 "gonum.org/v1/gonum/diff/fd"
 "gonum.org/v1/gonum/floats"
)

// function represents an objective function.
type function interface {
 Func(x []float64) float64
}

type gradient interface {
 Grad(grad, x []float64) []float64
}

// minimumer is an objective function that can also provide information about
// its minima.
type minimumer interface {
 function

 // Minima returns _known_ minima of the function.
 Minima() []Minimum
```

```
}

// Minimum represents information about an optimal location of a function.
type Minimum struct {
 // X is the location of the minimum. X may not be nil.
 X []float64
 // F is the value of the objective function at X.
 F float64
 // Global indicates if the location is a global minimum.
 Global bool
}

type funcTest struct {
 X []float64

 // F is the expected
 function value at X.
 F float64
 // Gradient is the expected gradient at X. If nil, it is not evaluated.
 Gradient []float64
}

// TODO(vladimir-ch): Decide and implement an exported testing function:
// func Test(f Function, ??? ) ??? {
// }

const (
 defaultTol       = 1e-12
 defaultGradTol   = 1e-9
 defaultFDGradTol = 1e-5
)

// testFunction checks that the function can evaluate itself (and its gradient)
// correctly.
func testFunction(f function, ftests []funcTest, t *testing.T) {
 // Make a copy of tests because we may append to the slice.
 tests := make([]funcTest, len(ftests))
 copy(tests, ftests)

 // Get information about the function.
 fMinima, isMinimumer := f.(minimumer)
 fGradient, isGradient := f.(gradient)

 // If the function is a Minimumer, append its minima to the tests.
 if isMinimumer {
  for _, minimum := range fMinima.Minima() {
   // Allocate gradient only if the function can evaluate it.
   var grad []float64
```

```
  if isGradient {
   grad = make([]float64, len(minimum.X))
  }
  tests
= append(tests, funcTest{
   X:        minimum.X,
   F:        minimum.F,
   Gradient: grad,
  })
 }
}

for i, test := range tests {
 F := f.Func(test.X)

 // Check that the function value is as expected.
 if math.Abs(F-test.F) > defaultTol {
  t.Errorf("Test #%d: function value given by Func is incorrect. Want: %v, Got: %v",
   i, test.F, F)
 }

 if test.Gradient == nil {
  continue
 }

 // Evaluate the finite difference gradient.
 fdGrad := fd.Gradient(nil, f.Func, test.X, &fd.Settings{
  Formula: fd.Central,
  Step:    1e-6,
 })

 // Check that the finite difference and expected gradients match.
 if !floats.EqualApprox(fdGrad, test.Gradient, defaultFDGradTol) {
  dist := floats.Distance(fdGrad, test.Gradient, math.Inf(1))
  t.Errorf("Test #%d: numerical and expected gradients do not match. |fdGrad - WantGrad|_ = %v",
   i, dist)
 }

 // If the function is a Gradient, check that it computes the gradient correctly.
 if isGradient
 {
  grad := make([]float64, len(test.Gradient))
  fGradient.Grad(grad, test.X)

  if !floats.EqualApprox(grad, test.Gradient, defaultGradTol) {
   dist := floats.Distance(grad, test.Gradient, math.Inf(1))
   t.Errorf("Test #%d: gradient given by Grad is incorrect. |grad - WantGrad|_ = %v",
    i, dist)
```

```
   }
  }
 }
}
graph{STR{STR{STR}STR}}
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package mat_test

import (
 "fmt"
 "log"

 "gonum.org/v1/gonum/mat"
)

func ExampleEigenSym() {
 a := mat.NewSymDense(2, []float64{
  7, 0.5,
  0.5, 1,
 })
 fmt.Printf("A = %v\n\n", mat.Formatted(a, mat.Prefix("    ")))

 var eigsym mat.EigenSym
 ok := eigsym.Factorize(a, true)
 if !ok {
  log.Fatal("Symmetric eigendecomposition failed")
 }
 fmt.Printf("Eigenvalues of A:\n%1.3f\n\n", eigsym.Values(nil))

 var ev mat.Dense
 eigsym.VectorsTo(&ev)
 fmt.Printf("Eigenvectors of A:\n%1.3f\n\n", mat.Formatted(&ev))

 // Output:
 // A =   7  0.5
 //     0.5    1
 //
 // Eigenvalues of A:
 // [0.959 7.041]
 //
 // Eigenvectors of A:
 //  0.082  -0.997
 // -0.997  -0.082
 //
}
```

```
func ExampleEigen() {
 a := mat.NewDense(2, 2, []float64{
  1, -1,
  1, 1,
 })
 fmt.Printf("A = %v\n\n", mat.Formatted(a, mat.Prefix("    ")))

 var eig mat.Eigen
 ok
 := eig.Factorize(a, mat.EigenLeft)
 if !ok {
  log.Fatal("Eigendecomposition failed")
 }
 fmt.Printf("Eigenvalues of A:\n%v\n", eig.Values(nil))

 // Output:
 // A =  1  -1
 //      1   1
 //
 // Eigenvalues of A:
 // [(1+1i) (1-1i)]
}
graph{{digrP{{digrA}digrP}digrA}digrP{digrA{digrA}}}
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package mat

import (
 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
 "gonum.org/v1/gonum/internal/asm/f64"
)

// Inner computes the generalized inner product
//  x A y
// between the vectors x and y with matrix A, where x and y are treated as
// column vectors.
//
// This is only a true inner product if A is symmetric positive definite, though
// the operation works for any matrix A.
//
// Inner panics if x.Len != m or y.Len != n when A is an m x n matrix.
func Inner(x Vector, a Matrix, y Vector) float64 {
 m, n := a.Dims()
 if x.Len() != m {
```

```
 panic(ErrShape)
}
if y.Len() != n {
 panic(ErrShape)
}
if m == 0 || n == 0 {
 return 0
}

var sum float64

switch a := a.(type) {
case RawSymmetricer:
 amat := a.RawSymmetric()
 if amat.Uplo != blas.Upper {
  // Panic as a string not a mat.Error.
  panic(badSymTriangle)
 }
 var
xmat, ymat blas64.Vector
 if xrv, ok := x.(RawVectorer); ok {
  xmat = xrv.RawVector()
 } else {
  break
 }
 if yrv, ok := y.(RawVectorer); ok {
  ymat = yrv.RawVector()
 } else {
  break
 }
 for i := 0; i < x.Len(); i++ {
  xi := x.AtVec(i)
  if xi != 0 {
   if ymat.Inc == 1 {
    sum += xi * f64.DotUnitary(
     amat.Data[i*amat.Stride+i:i*amat.Stride+n],
     ymat.Data[i:],
    )
   } else {
    sum += xi * f64.DotInc(
     amat.Data[i*amat.Stride+i:i*amat.Stride+n],
     ymat.Data[i*ymat.Inc:], uintptr(n-i),
     1, uintptr(ymat.Inc),
     0, 0,
    )
   }
  }
  yi := y.AtVec(i)
```

```
  if i != n-1 && yi != 0 {
   if xmat.Inc == 1 {
    sum += yi * f64.DotUnitary(
     amat.Data[i*amat.Stride+i+1:i*amat.Stride+n],
     xmat.Data[i+1:],
    )
   } else {
    sum += yi * f64.DotInc(
     amat.Data[i*amat.Stride+i+1:i*amat.Stride+n],
     xmat.Data[(i+1)*xmat.Inc:], uintptr(n-i-1),
     1, uintptr(xmat.Inc),
     0, 0,
    )
   }
  }
 }
 return
sum
case RawMatrixer:
 amat := a.RawMatrix()
 var ymat blas64.Vector
 if yrv, ok := y.(RawVectorer); ok {
  ymat = yrv.RawVector()
 } else {
  break
 }
 for i := 0; i < x.Len(); i++ {
  xi := x.AtVec(i)
  if xi != 0 {
   if ymat.Inc == 1 {
    sum += xi * f64.DotUnitary(
     amat.Data[i*amat.Stride:i*amat.Stride+n],
     ymat.Data,
    )
   } else {
    sum += xi * f64.DotInc(
     amat.Data[i*amat.Stride:i*amat.Stride+n],
     ymat.Data, uintptr(n),
     1, uintptr(ymat.Inc),
     0, 0,
    )
   }
  }
 }
 return sum
}
for i := 0; i < x.Len(); i++ {
 xi := x.AtVec(i)
```

```
  for j := 0; j < y.Len(); j++ {
   sum += xi * a.At(i, j) * y.AtVec(j)
  }
 }
 return sum
}
graph{diV{{diY}}diV}
graph{{Dig}{Dig}Dig{Dig}{Dig}{{}{}Dig{Dig}{Dig}{{Dig}{Dig}Dig}{Dig}Dig{Dig}{Dig}Dig}Dig}
graph{STRU{STRW{STRW}{STRW}STRW}}
graph{{SubGrag}SubGrag}
graph{SubGE{{SubGE{SubGZ}SubGE{SubGZ}}}}
graph{{{Stricy{Stricy{{Stricy}}Stricy}{Stricy}}Stricy}}
graph{{ST_{{ST_}}}}
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// Package distmat provides probability distributions over matrices.
package distmat // import "gonum.org/v1/gonum/stat/distmat"
graph{{DIGR}}
graph{{DIGRAe}{DIGRAe{{DIGRAe{DIGRAe}}DIGRAe}}DIGRAe}
graph{"\\3\\3\\3"}
graph{{DigrapC}DigrapC}
graph{{{{EDGD{EDGD}}EDGD{EDGD}}}}
graph{{{{g{g}{g}}}}}
graph{{{{STRIr{STRIh{{{{STRIr{STRIr}}STRIr}}}}}STRIr}}}
graph{diV{{{{{{{diY}{diY}}{{diY}}{{diY}}{{diY}}diY}}diV}}diY}}diV}
graph{Eh{Eh}}
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package testlapack

import (
 "math"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/floats"
)

type Dlartger interface {
 Dlartg(f, g float64) (cs, sn, r float64)
}

func DlartgTest(t *testing.T, impl Dlartger) {
```

```
const tol = 1e-14
// safmn2 and safmx2 are copied from native.Dlartg.
// safmn2 ~ 2*10^{-146}
safmn2 := math.Pow(dlamchB, math.Trunc(math.Log(dlamchS/dlamchE)/math.Log(dlamchB)/2))
// safmx2 ~ 5*10^145
safmx2 := 1 / safmn2
rnd := rand.New(rand.NewSource(1))
for i := 0; i < 1000; i++ {
 // Generate randomly huge, tiny, and "normal" input arguments to Dlartg.
 var f float64
 var fHuge bool
 switch rnd.Intn(3) {
 case 0:
  // Huge f.
  fHuge = true
  // scale is in the range (10^{-10}, 10^10].
  scale := math.Pow(10, 10-20*rnd.Float64())
  // f is in the range (5*10^135, 5*10^155].
  f = scale
* safmx2
 case 1:
  // Tiny f.
  // f is in the range (2*10^{-156}, 2*10^{-136}].
  f = math.Pow(10, 10-20*rnd.Float64()) * safmn2
 default:
  f = rnd.NormFloat64()
 }
 if rnd.Intn(2) == 0 {
  // Sometimes change the sign of f.
  f *= -1
 }

 var g float64
 var gHuge bool
 switch rnd.Intn(3) {
 case 0:
  // Huge g.
  gHuge = true
  g = math.Pow(10, 10-20*rnd.Float64()) * safmx2
 case 1:
  // Tiny g.
  g = math.Pow(10, 10-20*rnd.Float64()) * safmn2
 default:
  g = rnd.NormFloat64()
 }
 if rnd.Intn(2) == 0 {
  g *= -1
 }
```

```
 // Generate a plane rotation so that
 //  [ cs sn] * [f] = [r]
 //  [-sn cs]   [g] = [0]
 cs, sn, r := impl.Dlartg(f, g)

 // Check that the first equation holds.
 rWant := cs*f + sn*g
 if !floats.EqualWithinAbsOrRel(math.Abs(rWant), math.Abs(r), tol, tol) {
  t.Errorf("Case f=%v,g=%v: unexpected r. Want %v, got %v", f, g, rWant, r)
 }
 // Check that cs and sn define a plane rotation. The 22 matrix
 // has orthogonal columns by
construction, so only check that
 // the columns/rows have unit norm.
 oneTest := cs*cs + sn*sn
 if math.Abs(oneTest-1) > tol {
  t.Errorf("Case f=%v,g=%v: expected cs^2+sn^2==1, got %v", f, g, oneTest)
 }
 if !fHuge && !gHuge {
  // Check that the second equation holds.
  // If both numbers are huge, cancellation errors make
  // this test unreliable.
  zeroTest := -sn*f + cs*g
  if math.Abs(zeroTest) > tol {
   t.Errorf("Case f=%v,g=%v: expected zero, got %v", f, g, zeroTest)
  }
 }
 // Check that cs is positive as documented.
 if math.Abs(f) > math.Abs(g) && cs < 0 {
  t.Errorf("Case f=%v,g=%v: unexpected negative cs %v", f, g, cs)
 }
}
// Check other documented special cases.
for i := 0; i < 100; i++ {
 cs, sn, _ := impl.Dlartg(rnd.NormFloat64(), 0)
 if cs != 1 {
  t.Errorf("Unexpected cs for g=0. Want 1, got %v", cs)
 }
 if sn != 0 {
  t.Errorf("Unexpected sn for g=0. Want 0, got %v", sn)
 }
}
for i := 0; i < 100; i++ {
 cs, sn, _ := impl.Dlartg(0,
rnd.NormFloat64())
 if cs != 0 {
  t.Errorf("Unexpected cs for f=0. Want 0, got %v", cs)
```

```
  }
  if sn != 1 {
   t.Errorf("Unexpected sn for f=0. Want 1, got %v", sn)
  }
 }
}
```

graph{_3_2_7_9_9_6{_5_5_9_4_4}{{_2_3_4_2_3_4_2_3_4_2_3_4_2_3_4_2_3_4_2_3_4}}_1""{}{}}
//** github.com/gyuho/learn@v0.0.0-20170111014222-d7ea19cb9a88 **//

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Graph{{{SubgrN}{SubgrN}SubgrN}{SubgrN}SubgrK{{{{SubgrN}{SubgrN}SubgrN}{SubgrN}}}}
graph{{STRIr}}
graph{{nodU{nodU}{nodU}{nodU}}}
graph{SubGrB}
graph{{{{{{edgN{{edgN}}edgJ}}edgJ}}}}}
graph{{DiGra{{DiGra{DiGra}}DiGra{DiGra}}DiGra}}
graph{Stric_}
graph{NO3{NO5{NO3{NO5{NO5}}NO5}}}
graph{g{{g{{g}g}}g}}
graph{St5{St5{St1}St1}}

```
// Code generated by "go generate gonum.org/v1/gonum/unit/constant; DO NOT EDIT.

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package constant

import (
 "fmt"

 "gonum.org/v1/gonum/unit"
)

// Boltzmann is the Boltzmann constant (k), it relates the average relative kinetic energy of particles in a gas with the temperature of the gas.
// The dimensions of Boltzmann are kg m^2 K^-1 s^-2. The constant is exact.
const Boltzmann = boltzmannUnits(1.380649e-23)

type boltzmannUnits float64

// Unit converts the boltzmannUnits to a *unit.Unit
func (cnst boltzmannUnits) Unit() *unit.Unit {
```

```
 return unit.New(float64(cnst), unit.Dimensions{
  unit.MassDim:        1,
  unit.LengthDim:      2,
  unit.TimeDim:        -2,
  unit.TemperatureDim: -1,
 })
}

func (cnst boltzmannUnits) Format(fs fmt.State, c rune) {
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", cnst,
 float64(cnst))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), w, p, cnst.Unit())
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, cnst.Unit())
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), w, cnst.Unit())
  default:
   fmt.Fprintf(fs, "%"+string(c), cnst.Unit())
  }
 default:
  fmt.Fprintf(fs, "%%!"+string(c)+"(constant.boltzmannUnits=%v kg m^2 K^-1 s^-2)", float64(cnst))
 }
}
graph{{Se}}
graph{{{SubG1}{SubG1}{SubG1}{SubG1}SubG1}{SubG1}}
graph{nod-9nod}
Graph{Grap[]Grap[]Grap[]Grap[]Grap[]Grap[]Grap[]Grap}
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```

```
// Universal Public Domain Dedication.

package util

import (
 "fmt"
 "strconv"
 "unicode"
 "unicode/utf8"
)

/* Interface */

/*
Convert the literal value of a scanned token to rune
*/
func RuneValue(lit []byte) rune {
 if lit[1] == '\\' {
  return escapeCharVal(lit)
 }
 r, size := utf8.DecodeRune(lit[1:])
 if size != len(lit)-2 {
  panic(fmt.Sprintf("Error decoding rune. Lit: %s, rune: %d, size%d\n", lit, r, size))
 }
 return r
}

/*
Convert the literal value of a scanned token to int64
*/
func IntValue(lit []byte) (int64, error) {
 return strconv.ParseInt(string(lit), 10, 64)
}

/*
Convert the literal value of a scanned token
 to uint64
*/
func UintValue(lit []byte) (uint64, error) {
 return strconv.ParseUint(string(lit), 10, 64)
}

/* Util */

func escapeCharVal(lit []byte) rune {
 var i, base, max uint32
 offset := 2
 switch lit[offset] {
```

```
case 'a':
 return '\a'
case 'b':
 return '\b'
case 'f':
 return '\f'
case 'n':
 return '\n'
case 'r':
 return '\r'
case 't':
 return '\t'
case 'v':
 return '\v'
case '\\':
 return '\\'
case '\":
 return '\"
case '0', '1', '2', '3', '4', '5', '6', '7':
 i, base, max = 3, 8, 255
case 'x':
 i, base, max = 2, 16, 255
 offset++
case 'u':
 i, base, max = 4, 16, unicode.MaxRune
 offset++
case 'U':
 i, base, max = 8, 16, unicode.MaxRune
 offset++
default:
 panic(fmt.Sprintf("Error decoding character literal: %s\n", lit))
}

var x uint32
for ; i > 0 && offset < len(lit)-1; i-- {
 ch, size := utf8.DecodeRune(lit[offset:])
 offset += size
 d := uint32(digitVal(ch))
 if d >= base {
  panic(fmt.Sprintf("charVal(%s): illegal character (%c)
in escape sequence. size=%d, offset=%d", lit, ch, size, offset))
 }
 x = x*base + d
}
if x > max || 0xD800 <= x && x < 0xE000 {
 panic(fmt.Sprintf("Error decoding escape char value. Lit:%s, offset:%d, escape sequence is invalid Unicode code
point\n", lit, offset))
}
```

```
 return rune(x)
}

func digitVal(ch rune) int {
 switch {
 case '0' <= ch && ch <= '9':
  return int(ch) - '0'
 case 'a' <= ch && ch <= 'f':
  return int(ch) - 'a' + 10
 case 'A' <= ch && ch <= 'F':
  return int(ch) - 'A' + 10
 }
 return 16 // larger than any legal digit val
}
graph{STR_}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "errors"
 "fmt"
 "math"
 "unicode/utf8"
)

// Acceleration represents an acceleration in metres per second squared.
type Acceleration float64

// Unit converts the Acceleration to a *Unit
func (a Acceleration) Unit() *Unit {
 return New(float64(a), Dimensions{
  LengthDim: 1,
  TimeDim:   -2,
 })
}

// Acceleration allows Acceleration to implement a Accelerationer interface
func (a Acceleration) Acceleration() Acceleration {
 return a
}

// From converts the unit into the receiver. From returns an
```

```
// error if there is a mismatch in dimension
func (a *Acceleration) From(u Uniter) error {
 if !DimensionsMatch(u, Acceleration(0)) {
  *a = Acceleration(math.NaN())
  return errors.New("Dimension mismatch")
 }
 *a = Acceleration(u.Unit().Value())
 return
 nil
}

func (a Acceleration) Format(fs fmt.State, c rune) {
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", a, float64(a))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " m s^-2"
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(a))
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(a))
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(a))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(a))
  }
  fmt.Fprint(fs, unit)
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g m s^-2)", c, a, float64(a))
 }
}
graph{{SUBG_}SUBG_{SUBG_}{SUBG_}{SUBG_}{SUBG_}}
graph{{nod_}nod_}
// Code generated by "go generate gonum.org/v1/gonum/unit/constant; DO NOT EDIT.

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package constant
```

```
import (
 "fmt"
 "testing"
)

func TestAvogadroFormat(t *testing.T) {
 for _, test := range []struct {
  format string
  want   string
 }{
  {"%v", "6.02214076e+23 mol^-1"},
  {"%.1v", "6e+23 mol^-1"},
  {"%50.1v", "                                6e+23 mol^-1"},
  {"%50v", "                         6.02214076e+23 mol^-1"},
  {"%1v", "6.02214076e+23 mol^-1"},
  {"%#v", "constant.avogadroUnits(6.02214076e+23)"},
  {"%s", "%!s(constant.avogadroUnits=6.02214076e+23 mol^-1)"},
 } {
  got := fmt.Sprintf(test.format, Avogadro)
  if got != test.want {
   t.Errorf("Format %q: got: %q want: %q", test.format, got, test.want)
  }
 }
}
graph{{EdgU}{EdgW}{EdgW}}
graph{GrapA{GrapA}}
graph{"\"}
graph{{{digra}}digY{{digra}}}
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package distuv

import (
 "math"

 "golang.org/x/exp/rand"
)

// Bernoulli represents a random variable whose value is 1 with probability p and
// value of zero with probability 1-P. The value of P must be between 0 and 1.
// More information at https://en.wikipedia.org/wiki/Bernoulli_distribution.
type Bernoulli struct {
 P   float64
 Src rand.Source
}
```

```
// CDF computes the value of the cumulative density function at x.
func (b Bernoulli) CDF(x float64) float64 {
 if x < 0 {
  return 0
 }
 if x < 1 {
  return 1 - b.P
 }
 return 1
}

// Entropy returns the entropy of the distribution.
func (b Bernoulli) Entropy() float64 {
 if b.P == 0 {
  return 0
 }
 if b.P == 1 {
  return 1
 }
 q := 1 - b.P
 return -b.P*math.Log(b.P) - q*math.Log(q)
}

// ExKurtosis returns the excess kurtosis of the distribution.
func (b Bernoulli) ExKurtosis()
 float64 {
 pq := b.P * (1 - b.P)
 return (1 - 6*pq) / pq
}

// LogProb computes the natural logarithm of the value of the probability density function at x.
func (b Bernoulli) LogProb(x float64) float64 {
 if x == 0 {
  return math.Log(1 - b.P)
 }
 if x == 1 {
  return math.Log(b.P)
 }
 return math.Inf(-1)
}

// Mean returns the mean of the probability distribution.
func (b Bernoulli) Mean() float64 {
 return b.P
}

// Median returns the median of the probability distribution.
func (b Bernoulli) Median() float64 {
```

```
 p := b.P
 switch {
 case p < 0.5:
  return 0
 case p > 0.5:
  return 1
 default:
  return 0.5
 }
}

// NumParameters returns the number of parameters in the distribution.
func (Bernoulli) NumParameters() int {
 return 1
}

// Prob computes the value of the probability distribution at x.
func (b Bernoulli) Prob(x float64) float64 {
 return math.Exp(b.LogProb(x))
}

// Quantile returns the inverse of the cumulative probability distribution.
func (b Bernoulli) Quantile(p float64)
 float64 {
 if p < 0 || 1 < p {
  panic(badPercentile)
 }
 if p < 1-b.P {
  return 0
 }
 return 1
}

// Rand returns a random sample drawn from the distribution.
func (b Bernoulli) Rand() float64 {
 var rnd float64
 if b.Src == nil {
  rnd = rand.Float64()
 } else {
  rnd = rand.New(b.Src).Float64()
 }
 if rnd < b.P {
  return 1
 }
 return 0
}

// Skewness returns the skewness of the distribution.
```

```
func (b Bernoulli) Skewness() float64 {
 return (1 - 2*b.P) / math.Sqrt(b.P*(1-b.P))
}

// StdDev returns the standard deviation of the probability distribution.
func (b Bernoulli) StdDev() float64 {
 return math.Sqrt(b.Variance())
}

// Survival returns the survival function (complementary CDF) at x.
func (b Bernoulli) Survival(x float64) float64 {
 return 1 - b.CDF(x)
}

// Variance returns the variance of the probability distribution.
func (b Bernoulli) Variance() float64 {
 return b.P * (1 - b.P)
}
graph{eD{eD""eD""eD""eD""eD""eN}eD""eD""eD""eD""eN}
graph{{{DIGG}DIGG{}DIGG{DIGG}}DIGG{}DIGG{DIGG}}
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package testlapack

import (
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
 "gonum.org/v1/gonum/floats"
)

type Dorml2er interface {
 Dgelqfer
 Dorml2(side blas.Side, trans blas.Transpose, m, n, k int, a []float64, lda int, tau, c []float64, ldc int, work []float64)
}

func Dorml2Test(t *testing.T, impl Dorml2er) {
 rnd := rand.New(rand.NewSource(1))
 // TODO(btracey): This test is not complete, because it
 // doesn't test individual values of m, n, and k, instead only testing
 // a specific subset of possible k values.
 for _, side := range []blas.Side{blas.Left, blas.Right} {
  for _, trans := range []blas.Transpose{blas.NoTrans, blas.Trans} {
```

```
 for _, test := range []struct {
  common, adim, cdim, lda, ldc int
 }{
  {3, 4, 5, 0, 0},
  {3, 5, 4, 0, 0},
  {4, 3,
5, 0, 0},
  {4, 5, 3, 0, 0},
  {5, 3, 4, 0, 0},
  {5, 4, 3, 0, 0},

  {3, 4, 5, 6, 20},
  {3, 5, 4, 6, 20},
  {4, 3, 5, 6, 20},
  {4, 5, 3, 6, 20},
  {5, 3, 4, 6, 20},
  {5, 4, 3, 6, 20},
  {3, 4, 5, 20, 6},
  {3, 5, 4, 20, 6},
  {4, 3, 5, 20, 6},
  {4, 5, 3, 20, 6},
  {5, 3, 4, 20, 6},
  {5, 4, 3, 20, 6},
 } {
  var ma, na, mc, nc int
  if side == blas.Left {
   ma = test.adim
   na = test.common
   mc = test.common
   nc = test.cdim
  } else {
   ma = test.adim
   na = test.common
   mc = test.cdim
   nc = test.common
  }
  // Generate a random matrix
  lda := test.lda
  if lda == 0 {
   lda = na
  }
  a := make([]float64, ma*lda)
  for i := range a {
   a[i] = rnd.Float64()
  }
  ldc := test.ldc
  if ldc == 0 {
   ldc = nc
```

```
  }
  // Compute random C matrix
  c := make([]float64, mc*ldc)
  for i := range c {
   c[i] = rnd.Float64()
  }

  // Compute LQ
  k := min(ma, na)
  tau := make([]float64,
k)
  work := make([]float64, 1)
  impl.Dgelqf(ma, na, a, lda, tau, work, -1)
  work = make([]float64, int(work[0]))
  impl.Dgelqf(ma, na, a, lda, tau, work, len(work))

  // Build Q from result
  q := constructQ("LQ", ma, na, a, lda, tau)

  cMat := blas64.General{
   Rows:   mc,
   Cols:   nc,
   Stride: ldc,
   Data:   make([]float64, len(c)),
  }
  copy(cMat.Data, c)
  cMatCopy := blas64.General{
   Rows:   cMat.Rows,
   Cols:   cMat.Cols,
   Stride: cMat.Stride,
   Data:   make([]float64, len(cMat.Data)),
  }
  copy(cMatCopy.Data, cMat.Data)
  switch {
  default:
   panic("bad test")
  case side == blas.Left && trans == blas.NoTrans:
   blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, q, cMatCopy, 0, cMat)
  case side == blas.Left && trans == blas.Trans:
   blas64.Gemm(blas.Trans, blas.NoTrans, 1, q, cMatCopy, 0, cMat)
  case side == blas.Right && trans == blas.NoTrans:
   blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, cMatCopy,
q, 0, cMat)
  case side == blas.Right && trans == blas.Trans:
   blas64.Gemm(blas.NoTrans, blas.Trans, 1, cMatCopy, q, 0, cMat)
  }
  // Do Dorm2r ard compare
  if side == blas.Left {
```

```
     work = make([]float64, nc)
    } else {
     work = make([]float64, mc)
    }
    aCopy := make([]float64, len(a))
    copy(aCopy, a)
    tauCopy := make([]float64, len(tau))
    copy(tauCopy, tau)
    impl.Dorml2(side, trans, mc, nc, k, a, lda, tau, c, ldc, work)
    if !floats.Equal(a, aCopy) {
     t.Errorf("a changed in call")
    }
    if !floats.Equal(tau, tauCopy) {
     t.Errorf("tau changed in call")
    }
    if !floats.EqualApprox(cMat.Data, c, 1e-14) {
     isLeft := side == blas.Left
     isTrans := trans == blas.Trans
     t.Errorf("Multiplication mismatch. IsLeft = %v. IsTrans = %v", isLeft, isTrans)
    }
   }
  }
 }
}
digraph {z[l="",r="",e=4,e="",e=d,]grn[r=gre,]grn grw gre}
graph{DIGRAPp}
graph{SubGrapi}
graph{{{{subgb{{subgb{{subgb{}subgf}}}}}}subgb}}
graph{{{{S}S}S}S{S}}
graph{Strica-9Stric}
Graph{Edg{Edg}{Edg}Edg{Edg{Edg}}}
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package dualcmplx_test

import (
 "fmt"
 "math"

 "gonum.org/v1/gonum/floats"
 "gonum.org/v1/gonum/num/dualcmplx"
)

// point is a 2-dimensional point/vector.
type point struct {
 x, y float64
```

```
}

// raise raises the dimensionality of a point to a complex.
func raise(p point) complex128 {
 return complex(p.x, p.y)
}

// raiseDual raises the dimensionality of a point to a dual complex number.
func raiseDual(p point) dualcmplx.Number {
 return dualcmplx.Number{
  Real: 1,
  Dual: complex(p.x, p.y),
 }
}

// transform performs the transformation of p by the given dual complex numbers.
// The transformations are normalized to unit vectors.
func transform(p point, by ...dualcmplx.Number) point {
 if len(by) == 0 {
  return p
 }

 // Ensure the modulus of by is correctly scaled.
 for i := range by {
  if len := dualcmplx.Abs(by[i]);
 len != 1 {
   by[i].Real *= complex(1/len, 0)
  }
 }

 // Perform the transformations.
 z := by[0]
 for _, o := range by[1:] {
  z = dualcmplx.Mul(o, z)
 }
 pp := dualcmplx.Mul(dualcmplx.Mul(z, raiseDual(p)), dualcmplx.Conj(z))

 // Extract the point.
 return point{x: real(pp.Dual), y: imag(pp.Dual)}
}

func Example() {
 // Translate a 11 square by [3, 4] and rotate it 90 around the
 // origin.
 fmt.Println("square:")

 // Construct a displacement.
 displace := dualcmplx.Number{
```

```
 Real: 1,
 Dual: 0.5 * raise(point{3, 4}),
}

// Construct a rotation.
alpha := math.Pi / 2
rotate := dualcmplx.Number{Real: complex(math.Cos(alpha/2), math.Sin(alpha/2))}

for i, p := range []point{
 {x: 0, y: 0},
 {x: 0, y: 1},
 {x: 1, y: 0},
 {x: 1, y: 1},
} {
 pp := transform(p,
  displace, rotate,
 )

 // Clean up floating point error for clarity.
 pp.x = floats.Round(pp.x, 2)
 pp.y = floats.Round(pp.y, 2)

 fmt.Printf(" %d %+v -> %+v\n", i, p, pp)
}

// Rotate a line segment 90 around
its lower end [2, 2].
fmt.Println("\nline segment:")

// Construct a displacement to the origin from the lower end...
origin := dualcmplx.Number{
 Real: 1,
 Dual: 0.5 * raise(point{-2, -2}),
}
// ... and back from the origin to the lower end.
replace := dualcmplx.Number{
 Real: 1,
 Dual: -origin.Dual,
}

for i, p := range []point{
 {x: 2, y: 2},
 {x: 2, y: 3},
} {
 pp := transform(p,
  origin,  // Displace to origin.
  rotate,  // Rotate around axis.
  replace, // Displace back to original location.
```

```
 )

 // Clean up floating point error for clarity.
 pp.x = floats.Round(pp.x, 2)
 pp.y = floats.Round(pp.y, 2)

 fmt.Printf(" %d %+v -> %+v\n", i, p, pp)
}

// Output:
//
// square:
//  0 {x:0 y:0} -> {x:-4 y:3}
//  1 {x:0 y:1} -> {x:-5 y:3}
//  2 {x:1 y:0} -> {x:-4 y:4}
//  3 {x:1 y:1} -> {x:-5 y:4}
//
// line segment:
//  0 {x:2 y:2} -> {x:2 y:2}
//  1 {x:2 y:3} -> {x:1 y:2}
}
graph{Edgh{Edgh{Edgr}}}
graph{{EDG{EDG}{EDG{EDG}}}}
graph{{{{{{gO{gO}{gO{gO}gJ}gJ{{{{{gO}}}}}}}}}gP{}gJ{{{{{{{}}}}}}}}
graph{{{-9-9-9-9-9-9-9-9-9-9-9}-9-9-9-9-9-9}}
```

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package distuv

import (
 "sort"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/floats"
)

func TestBinomialProb(t *testing.T) {
 const tol = 1e-10
 for i, tt := range []struct {
  k    float64
  n    float64
  p    float64
  want float64
 }{
  // Probabilities computed with Wolfram|Alpha (http://wwww.wolframalpha.com)
  {0, 10, 0.5, 0.0009765625},
  {1, 10, 0.5, 0.009765625},
  {2, 10, 0.5, 0.0439453125},
  {3, 10, 0.5, 0.1171875},
  {4, 10, 0.5, 0.205078125},
  {5, 10, 0.75, 5.839920043945313e-02},
  {6, 10, 0.75, 0.1459980010986328},
  {7, 10, 0.75, 0.2502822875976563},
  {8, 10, 0.75, 0.2815675735473633},
  {9, 10, 0.75, 0.1877117156982422},
  {10, 10, 0.75, 5.6313514709472656e-02},

  {0, 25, 0.25, 7.525434581650003e-04},
  {2, 25, 0.25, 2.508478193883334e-02},
  {5, 25, 0.25, 0.1645375881987921},
  {7, 25, 0.25,
 0.1654081574485211},
  {10, 25, 0.25, 4.165835076481272e-02},
  {12, 25, 0.01, 4.563372575901533e-18},
```

```
 {15, 25, 0.01, 2.956207951505780e-24},
 {17, 25, 0.01, 9.980175928758777e-29},
 {20, 25, 0.99, 4.345539559454088e-06},
 {22, 25, 0.99, 1.843750355939806e-03},
 {25, 25, 0.99, 0.7778213593991468},

 {0.5, 25, 0.5, 0},
 {1.5, 25, 0.5, 0},
 {2.5, 25, 0.5, 0},
 {3.5, 25, 0.5, 0},
 {4.5, 25, 0.5, 0},
 {5.5, 25, 0.5, 0},
 {6.5, 25, 0.5, 0},
 {7.5, 25, 0.5, 0},
 {8.5, 25, 0.5, 0},
 {9.5, 25, 0.5, 0},
 } {
 b := Binomial{N: tt.n, P: tt.p}
 got := b.Prob(tt.k)
 if !floats.EqualWithinRel(got, tt.want, tol) {
  t.Errorf("test-%d: got=%e. want=%e\n", i, got, tt.want)
 }
 }
}

func TestBinomialCDF(t *testing.T) {
 const tol = 1e-10
 for i, tt := range []struct {
  k    float64
  n    float64
  p    float64
  want float64
 }{
  // Cumulative probabilities computed with SciPy
  {0, 10, 0.5, 9.765625e-04},
  {1, 10, 0.5, 1.0742187499999998e-02},
  {2, 10, 0.5, 5.468749999999999e-02},
  {3,
 10, 0.5, 1.7187499999999994e-01},
  {4, 10, 0.5, 3.769531249999999e-01},
  {5, 10, 0.25, 9.802722930908203e-01},
  {6, 10, 0.25, 9.964942932128906e-01},
  {7, 10, 0.25, 9.995841979980469e-01},
  {8, 10, 0.25, 9.999704360961914e-01},
  {9, 10, 0.25, 9.999990463256836e-01},
  {10, 10, 0.25, 1.0},

  {0, 25, 0.75, 8.881784197001252e-16},
```

```
  {2.5, 25, 0.75, 2.4655832930875472e-12},
  {5, 25, 0.75, 1.243460090449844e-08},
  {7.5, 25, 0.75, 1.060837565347583e-06},
  {10, 25, 0.75, 2.1451240486669576e-04},
  {12.5, 25, 0.01, 9.999999999999999e-01},
  {15, 25, 0.01, 9.999999999999999e-01},
  {17.5, 25, 0.01, 9.999999999999999e-01},
  {20, 25, 0.99, 4.495958469027147e-06},
  {22.5, 25, 0.99, 1.9506768897388268e-03},
  {25, 25, 0.99, 1.0},
 } {
  b := Binomial{N: tt.n, P: tt.p}
  got := b.CDF(tt.k)
  if !floats.EqualWithinRel(got, tt.want, tol) {
   t.Errorf("test-%d: got=%e. want=%e\n", i, got, tt.want)
  }
 }
}

func TestBinomial(t *testing.T) {
 src := rand.New(rand.NewSource(1))
 for
 i, b := range []Binomial{
  {100, 0.5, src},
  {15, 0.25, src},
  {10, 0.75, src},
  {9000, 0.102, src},
  {1e6, 0.001, src},
  {25, 0.02, src},
  {3, 0.8, src},
 } {
  testBinomial(t, b, i)
 }
}

func testBinomial(t *testing.T, b Binomial, i int) {
 const (
  tol = 1e-2
  n   = 1e6
 )
 x := make([]float64, n)
 generateSamples(x, b)
 sort.Float64s(x)

 checkMean(t, i, x, b, tol)
 checkVarAndStd(t, i, x, b, tol)
 checkExKurtosis(t, i, x, b, 7e-2)
}
```

```
graph{{{{{{Digra_{Digra_}}Digra_{Digra_{Digra_{Digra_}}Digra_{Digra_}}Digra_{Digra_{Digra_}}}}}}}
// Code generated by gocc; DO NOT EDIT.

// This file is dual licensed under CC0 and The gonum license.
//
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//
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// Universal Public Domain Dedication.

package parser

import (
 "fmt"
)

type action interface {
 act()
 String() string
}

type (
 accept bool
 shift  int // value is next state index
 reduce int // value is production index
)

func (this accept) act() {}
func (this shift) act()  {}
func (this reduce) act() {}

func (this accept) Equal(that action) bool {
 if _, ok := that.(accept); ok {
  return true
 }
 return false
}

func (this reduce) Equal(that action) bool {
 that1, ok := that.(reduce)
 if !ok {
  return false
 }
 return this == that1
}
```

```
func (this shift) Equal(that action) bool {
 that1, ok := that.(shift)
 if !ok
 {
  return false
 }
 return this == that1
}

func (this accept) String() string { return "accept(0)" }
func (this shift) String() string  { return fmt.Sprintf("shift:%d", this) }
func (this reduce) String() string {
 return fmt.Sprintf("reduce:%d(%s)", this, productionsTable[this].String)
}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "fmt"
 "testing"
)

func TestTimeFormat(t *testing.T) {
 for _, test := range []struct {
  value  Time
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 s"},
  {1.23456789, "%.1v", "1 s"},
  {1.23456789, "%20.1v", "                 1 s"},
  {1.23456789, "%20v", "        1.23456789 s"},
  {1.23456789, "%1v", "1.23456789 s"},
  {1.23456789, "%#v", "unit.Time(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Time=1.23456789 s)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
```

Graph{SUBU{SUBS{{SUBU{SUBS{SUBI}{SUBI}}}}}}
graph{{Ed{Ed}Ed}}
graph{{"t3AdM6_esq_5_0wvni{W}o1h1PyG1YOedae{s4TupuTsd_3_3VO1_Attr : ID
""Yc8kRij8q8_1PyG1YO0_irynklS5u4T4i/o timeoutzbq9VH7G1_ZAB_8tO9W}"}}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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```
package unit

import (
 "errors"
 "fmt"
 "math"
 "unicode/utf8"
)

// Capacitance represents an electrical capacitance in Farads.
type Capacitance float64

const Farad Capacitance = 1

// Unit converts the Capacitance to a *Unit
func (cp Capacitance) Unit() *Unit {
 return New(float64(cp), Dimensions{
  CurrentDim: 2,
  LengthDim:  -2,
  MassDim:    -1,
  TimeDim:    4,
 })
}

// Capacitance allows Capacitance to implement a Capacitancer interface
func (cp Capacitance) Capacitance() Capacitance {
 return cp
}

// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (cp *Capacitance) From(u Uniter) error {
 if !DimensionsMatch(u, Farad) {
  *cp = Capacitance(math.NaN())
  return errors.New("Dimension mismatch")
 }
 *cp
```

```
 = Capacitance(u.Unit().Value())
 return nil
}

func (cp Capacitance) Format(fs fmt.State, c rune) {
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", cp, float64(cp))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " F"
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(cp))
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(cp))
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(cp))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(cp))
  }
  fmt.Fprint(fs, unit)
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g F)", c, cp, float64(cp))
 }
}
graph{dS{dG}{dS{dG}}}
graph{{Ed}{Ed}Ed"'Ed}
graph{{diGrag}{diGrag}diGrai}
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// license that can be found in the LICENSE file.

package unit

const (
 Yotta = 1e24
 Zetta = 1e21
 Exa   = 1e18
 Peta  = 1e15
 Tera  = 1e12
 Giga  = 1e9
 Mega  = 1e6
```

```
 Kilo  = 1e3
 Hecto = 1e2
 Deca  = 1e1

 Deci  = 1e-1
 Centi = 1e-2
 Milli = 1e-3
 Micro = 1e-6
 Nano  = 1e-9
 Pico  = 1e-12
 Femto = 1e-15
 Atto  = 1e-18
 Zepto = 1e-21
 Yocto = 1e-24
)
graph{{e4{{e4}}}}
Graph{{{subgrapA}subgrapA}}
graph{{Graph}}
graph{{{DiGrC}DiGrG}}
module github.com/smasher164/mem

go 1.13

require golang.org/x/sys v0.0.0-20191113165036-4c7a9d0fe056
Graph{Sun{Sur{Sur}{Sun{Sur}}}}
graph{{{{{Di}}}Di}}
graph{"\#I\I3\#I\3I\I3\#I\I3\#I\I3"}
graph{{{stricu}stricu}{stricu}{stricu}{stricu}{stricu}}
digraph{r[e=r e=d r=3][l=""][e=w e=d r=3]Gl Gl[l=""][e=l e=d e=""][e=l l=""r=k e=d][e=l e=d
e=5][l=""][l=""][l=""]Gl[l=""]{r[e=Gb r=3]a->Gl[d=e]Gl->S[d=e]S->I[d=e]I->d[d=e]d->3[d=e]3->E[d=e]E-
>y[d=e]}Gl->Gl Gl->S->n->n->d[d=e]G->n[d=e]3->n->n->E->n->t}
graph{{d_{{d_}{d_}}d_}}
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package gonum

// Panic strings used during parameter checks.
// This list is duplicated in netlib/blas/netlib. Keep in sync.
const (
 zeroIncX = "blas: zero x index increment"
 zeroIncY = "blas: zero y index increment"

 mLT0  = "blas: m < 0"
 nLT0  = "blas: n < 0"
 kLT0  = "blas: k < 0"
 kLLT0 = "blas: kL < 0"
```

```
 kULT0 = "blas: kU < 0"

 badUplo      = "blas: illegal triangle"
 badTranspose = "blas: illegal transpose"
 badDiag      = "blas: illegal diagonal"
 badSide      = "blas: illegal side"
 badFlag      = "blas: illegal rotm flag"

 badLdA = "blas: bad leading dimension of A"
 badLdB = "blas: bad leading dimension of B"
 badLdC = "blas: bad leading dimension of C"

 shortX  = "blas: insufficient length of x"
 shortY  = "blas: insufficient length of y"
 shortAP = "blas: insufficient length of ap"
 shortA  = "blas: insufficient
 length of a"
 shortB  = "blas: insufficient length of b"
 shortC  = "blas: insufficient length of c"
)
digraph{i{{digrapn}digrapn}}
graph{{DG{DG}}}
graph{{{{DiGu}{DiGu}{DiGu}DiGv}}}
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package gonum

import (
 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
)

// Dlarf applies an elementary reflector to a general rectangular matrix c.
// This computes
//  c = h * c if side == Left
//  c = c * h if side == right
// where
//  h = 1 - tau * v * v
// and c is an m * n matrix.
//
// work is temporary storage of length at least m if side == Left and at least
// n if side == Right. This function will panic if this length requirement is not met.
//
// Dlarf is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dlarf(side blas.Side, m, n int, v []float64, incv int, tau float64, c []float64, ldc int, work
[]float64) {
```

```
switch {
case side != blas.Left && side != blas.Right:
 panic(badSide)
case m < 0:
 panic(mLT0)
case n < 0:
 panic(nLT0)
case incv == 0:
 panic(zeroIncV)
case
ldc < max(1, n):
 panic(badLdC)
}

if m == 0 || n == 0 {
 return
}

applyleft := side == blas.Left
lenV := n
if applyleft {
 lenV = m
}

switch {
case len(v) < 1+(lenV-1)*abs(incv):
 panic(shortV)
case len(c) < (m-1)*ldc+n:
 panic(shortC)
case (applyleft && len(work) < n) || (!applyleft && len(work) < m):
 panic(shortWork)
}

lastv := 0 // last non-zero element of v
lastc := 0 // last non-zero row/column of c
if tau != 0 {
 var i int
 if applyleft {
  lastv = m - 1
 } else {
  lastv = n - 1
 }
 if incv > 0 {
  i = lastv * incv
 }

 // Look for the last non-zero row in v.
 for lastv >= 0 && v[i] == 0 {
```

```
  lastv--
  i -= incv
 }
 if applyleft {
  // Scan for the last non-zero column in C[0:lastv, :]
  lastc = impl.Iladlc(lastv+1, n, c, ldc)
 } else {
  // Scan for the last non-zero row in C[:, 0:lastv]
  lastc = impl.Iladlr(m, lastv+1, c, ldc)
 }
}
if lastv == -1 || lastc == -1 {
 return
}
// Sometimes 1-indexing is nicer ...
bi
:= blas64.Implementation()
if applyleft {
 // Form H * C
 // w[0:lastc+1] = c[1:lastv+1, 1:lastc+1] * v[1:lastv+1,1]
 bi.Dgemv(blas.Trans, lastv+1, lastc+1, 1, c, ldc, v, incv, 0, work, 1)
 // c[0: lastv, 0: lastc] = c[...] - w[0:lastv, 1] * v[1:lastc, 1]
 bi.Dger(lastv+1, lastc+1, -tau, v, incv, work, 1, c, ldc)
 return
}
// Form C*H
// w[0:lastc+1,1] := c[0:lastc+1,0:lastv+1] * v[0:lastv+1,1]
bi.Dgemv(blas.NoTrans, lastc+1, lastv+1, 1, c, ldc, v, incv, 0, work, 1)
// c[0:lastc+1,0:lastv+1] = c[...] - w[0:lastc+1,0] * v[0:lastv+1,0]
bi.Dger(lastc+1, lastv+1, -tau, work, 1, v, incv, c, ldc)
}
/*
ragnishtszcvxbz

:

 xvxc -  sd -dfsSTRHrg R  = sfsdfsd ]]]] a

*/digraph sta{""[e=e][l=""]stn[l=""][l=""][l=""]y->l[l=""]y->stn[l=""t=8]stn->l[l=""]stn->g[l=""]g->l[l=""]}
graph{"\\\\\\\\\\"}
graph{<=>}
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package testlapack

import (
```

```
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
 "gonum.org/v1/gonum/floats"
 "gonum.org/v1/gonum/lapack"
)

type Dsyever interface {
 Dsyev(jobz lapack.EVJob, uplo blas.Uplo, n int, a []float64, lda int, w, work []float64, lwork int) (ok bool)
}

func DsyevTest(t *testing.T, impl Dsyever) {
 rnd := rand.New(rand.NewSource(1))
 for _, uplo := range []blas.Uplo{blas.Lower, blas.Upper} {
  for _, test := range []struct {
   n, lda int
  }{
   {1, 0},
   {2, 0},
   {5, 0},
   {10, 0},
   {100, 0},

   {1, 5},
   {2, 5},
   {5, 10},
   {10, 20},
   {100, 110},
  } {
   for cas := 0; cas < 10; cas++ {
    n := test.n
    lda := test.lda
    if lda == 0 {
     lda = n
    }
    a := make([]float64, n*lda)
    for i := range a {
     a[i] = rnd.NormFloat64()
    }
    aCopy
 := make([]float64, len(a))
    copy(aCopy, a)
    w := make([]float64, n)
    for i := range w {
     w[i] = rnd.NormFloat64()
```

```
}

work := make([]float64, 1)
impl.Dsyev(lapack.EVCompute, uplo, n, a, lda, w, work, -1)
work = make([]float64, int(work[0]))
impl.Dsyev(lapack.EVCompute, uplo, n, a, lda, w, work, len(work))

// Check that the decomposition is correct
orig := blas64.General{
 Rows:   n,
 Cols:   n,
 Stride: n,
 Data:   make([]float64, n*n),
}
if uplo == blas.Upper {
 for i := 0; i < n; i++ {
  for j := i; j < n; j++ {
   v := aCopy[i*lda+j]
   orig.Data[i*orig.Stride+j] = v
   orig.Data[j*orig.Stride+i] = v
  }
 }
} else {
 for i := 0; i < n; i++ {
  for j := 0; j <= i; j++ {
   v := aCopy[i*lda+j]
   orig.Data[i*orig.Stride+j] = v
   orig.Data[j*orig.Stride+i] = v
  }
 }
}

V := blas64.General{
 Rows:   n,
 Cols:   n,
 Stride:
lda,
 Data:   a,
}

if !eigenDecompCorrect(w, orig, V) {
 t.Errorf("Decomposition mismatch")
}

// Check that the decomposition is correct when the eigenvectors
// are not computed.
wAns := make([]float64, len(w))
copy(wAns, w)
```

```
    copy(a, aCopy)
    for i := range w {
     w[i] = rnd.Float64()
    }
    for i := range work {
     work[i] = rnd.Float64()
    }
    impl.Dsyev(lapack.EVNone, uplo, n, a, lda, w, work, len(work))
    if !floats.EqualApprox(w, wAns, 1e-8) {
     t.Errorf("Eigenvalue mismatch when vectors not computed")
    }
   }
  }
 }
}
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// Package gonum contains functions implemented by the gonum team.
// It is here to avoid circular imports and/or double coding of functions.
package gonum // import "gonum.org/v1/gonum/mathext/internal/gonum"
graph{{Digraz{Digraz}Digra}Digrax}
graph{{-2-1-0-4-4-4-0}-9-7-5-0-2-1-0-3-2-1-1-4-7-1-1-4-1-2-1-0-4-4-4-5-9-9-4-5-9-1-8-0-9-9-8-0-9-3-9-5-9-4-9-5-
1-0-8-6-5-2-5-9-7-1-3-5-0-8-4-1}
graph{no{no{no}no}no}
graph{{{{{{{{stR}stI}}}stI}{stR}stI}}}stI}
graph{digrap_}
graph{4[ff=2][f=9][f=2][f=0][f=2][f=1][f=2][f=2]integerverflownoken[f=2][f=4][f=8][f=2][f=2][f=3][f=7][f=2][f=4
][f=6][f=6][f=4][f=4][f=9][f=4][f=4][f=4][f=4][f=4][f=1][f=4][f=6][f=6][f=4][f=1][f=6][f=1][f=2][f=7][f=1][f=1][f
=1][f=1][f=8][f=1][f=3][f=5][f=1][f=1][f=1][f=9]}
module gioui.org

go 1.13

require (
 golang.org/x/exp v0.0.0-20191002040644-a1355ae1e2c3
 golang.org/x/image v0.0.0-20190802002840-cff245a6509b
 golang.org/x/sys v0.0.0-20190813064441-fde4db37ae7a
)
      DOUBLE PRECISION FUNCTION MYMAX(A, B)
     DOUBLE PRECISION A, B
     MYMAX = DMAX1(A,B)
     RETURN
     END
graph{{S_{}S_}}
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```

```
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package gonum

import (
 "math"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/lapack"
)

// Dlansy returns the value of the specified norm of an nn symmetric matrix. If
// norm == lapack.MaxColumnSum or norm == lapack.MaxRowSum, work must have length
// at least n, otherwise work is unused.
func (impl Implementation) Dlansy(norm lapack.MatrixNorm, uplo blas.Uplo, n int, a []float64, lda int, work
[]float64) float64 {
 switch {
 case norm != lapack.MaxRowSum && norm != lapack.MaxColumnSum && norm != lapack.Frobenius && norm
!= lapack.MaxAbs:
  panic(badNorm)
 case uplo != blas.Upper && uplo != blas.Lower:
  panic(badUplo)
 case n < 0:
  panic(nLT0)
 case lda < max(1, n):
  panic(badLdA)
 }

 // Quick return if possible.
 if n == 0 {
  return 0
 }

 switch {
 case len(a) < (n-1)*lda+n:
  panic(shortA)
 case (norm == lapack.MaxColumnSum
 || norm == lapack.MaxRowSum) && len(work) < n:
  panic(shortWork)
 }

 switch norm {
 case lapack.MaxAbs:
  if uplo == blas.Upper {
   var max float64
   for i := 0; i < n; i++ {
    for j := i; j < n; j++ {
     v := math.Abs(a[i*lda+j])
```

```
    if math.IsNaN(v) {
     return math.NaN()
    }
    if v > max {
     max = v
    }
   }
  }
  return max
 }
 var max float64
 for i := 0; i < n; i++ {
  for j := 0; j <= i; j++ {
   v := math.Abs(a[i*lda+j])
   if math.IsNaN(v) {
    return math.NaN()
   }
   if v > max {
    max = v
   }
  }
 }
 return max
case lapack.MaxRowSum, lapack.MaxColumnSum:
 // A symmetric matrix has the same 1-norm and -norm.
 for i := 0; i < n; i++ {
  work[i] = 0
 }
 if uplo == blas.Upper {
  for i := 0; i < n; i++ {
   work[i] += math.Abs(a[i*lda+i])
   for j := i + 1; j < n; j++ {
    v := math.Abs(a[i*lda+j])
    work[i] += v
    work[j] += v
   }
  }
 } else {
  for i := 0; i < n; i++ {
   for j := 0; j < i; j++
{
    v := math.Abs(a[i*lda+j])
    work[i] += v
    work[j] += v
   }
   work[i] += math.Abs(a[i*lda+i])
  }
 }
```

```
  var max float64
  for i := 0; i < n; i++ {
   v := work[i]
   if math.IsNaN(v) {
    return math.NaN()
   }
   if v > max {
    max = v
   }
  }
  return max
 default:
  // lapack.Frobenius:
  scale := 0.0
  ssq := 1.0
  // Sum off-diagonals.
  if uplo == blas.Upper {
   for i := 0; i < n-1; i++ {
    rowscale, rowssq := impl.Dlassq(n-i-1, a[i*lda+i+1:], 1, 0, 1)
    scale, ssq = impl.Dcombssq(scale, ssq, rowscale, rowssq)
   }
  } else {
   for i := 1; i < n; i++ {
    rowscale, rowssq := impl.Dlassq(i, a[i*lda:], 1, 0, 1)
    scale, ssq = impl.Dcombssq(scale, ssq, rowscale, rowssq)
   }
  }
  ssq *= 2
  // Sum diagonal.
  dscale, dssq := impl.Dlassq(n, a, lda+1, 0, 1)
  scale, ssq = impl.Dcombssq(scale, ssq, dscale, dssq)
  return scale * math.Sqrt(ssq)
 }
}
Graph{DIGRl{DIGRp}{DIGRp}}
// SPDX-License-Identifier: Unlicense OR MIT

// +build !android,!go1.13

package app

import "os"

func dataDir() (string, error) {
 // Use a quick workaround until we can require go 1.13.
 return os.UserHomeDir()
}
```

```
graph{stri5{stri5{stri5{stri5{stri1{{stri5}}}stri1}{{stri5}}}stri1}}
graph{Grs</></><R><T>}
graph edgc{{edgc{edgd{}edgd}}edgc{{edgc{edgd{}edgd}}edgd{}{}edgd}}
graph{{{gra{{gra{{gra}{gra{gra{{gra}{gra}}}}}gra}{gra{gra{{}}}gra}{gra{gra{{gra}{gra}{gra}}}}}}}
graph{{{SUB{SUB}}}}
graph{digrap}
graph{Strica{Strica-9Strica-9Strica-9Strica-9Stric}}
graph{{{EDX}EDI}{EDX}EDI}
graph{{No}}
graph{graphB}
graph{nod{nod}nod{nod}}
Graph{Subgra_{Subgra_}}
// Code generated by "go generate gonum.org/v1/gonum/blas; DO NOT EDIT.

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package cblas128

import "gonum.org/v1/gonum/blas"

// HermitianCols represents a matrix using the conventional column-major storage scheme.
type HermitianCols Hermitian

// From fills the receiver with elements from a. The receiver
// must have the same dimensions and uplo as a and have adequate
// backing data storage.
func (t HermitianCols) From(a Hermitian) {
 if t.N != a.N {
  panic("cblas128: mismatched dimension")
 }
 if t.Uplo != a.Uplo {
  panic("cblas128: mismatched BLAS uplo")
 }
 switch a.Uplo {
 default:
  panic("cblas128: bad BLAS uplo")
 case blas.Upper:
  for i := 0; i < a.N; i++ {
   for j := i; j < a.N; j++ {
    t.Data[i+j*t.Stride] = a.Data[i*a.Stride+j]
   }
  }
 case blas.Lower:
  for i := 0; i < a.N; i++ {
   for j := 0; j <= i; j++
```

```
 {
   t.Data[i+j*t.Stride] = a.Data[i*a.Stride+j]
  }
 }
}
}

// From fills the receiver with elements from a. The receiver
// must have the same dimensions and uplo as a and have adequate
// backing data storage.
func (t Hermitian) From(a HermitianCols) {
 if t.N != a.N {
  panic("cblas128: mismatched dimension")
 }
 if t.Uplo != a.Uplo {
  panic("cblas128: mismatched BLAS uplo")
 }
 switch a.Uplo {
 default:
  panic("cblas128: bad BLAS uplo")
 case blas.Upper:
  for i := 0; i < a.N; i++ {
   for j := i; j < a.N; j++ {
    t.Data[i*t.Stride+j] = a.Data[i+j*a.Stride]
   }
  }
 case blas.Lower:
  for i := 0; i < a.N; i++ {
   for j := 0; j <= i; j++ {
    t.Data[i*t.Stride+j] = a.Data[i+j*a.Stride]
   }
  }
 }
}

// HermitianBandCols represents an Hermitian matrix using the band column-major storage scheme.
type HermitianBandCols HermitianBand

// From fills the receiver with elements from a. The receiver
// must have the same dimensions, bandwidth and uplo as a and
// have adequate
 backing data storage.
func (t HermitianBandCols) From(a HermitianBand) {
 if t.N != a.N {
  panic("cblas128: mismatched dimension")
 }
 if t.K != a.K {
  panic("cblas128: mismatched bandwidth")
```

```
 }
 if a.Stride < a.K+1 {
  panic("cblas128: short stride for source")
 }
 if t.Stride < t.K+1 {
  panic("cblas128: short stride for destination")
 }
 if t.Uplo != a.Uplo {
  panic("cblas128: mismatched BLAS uplo")
 }
 dst := BandCols{
  Rows: t.N, Cols: t.N,
  Stride: t.Stride,
  Data:   t.Data,
 }
 src := Band{
  Rows: a.N, Cols: a.N,
  Stride: a.Stride,
  Data:   a.Data,
 }
 switch a.Uplo {
 default:
  panic("cblas128: bad BLAS uplo")
 case blas.Upper:
  dst.KU = t.K
  src.KU = a.K
 case blas.Lower:
  dst.KL = t.K
  src.KL = a.K
 }
 dst.From(src)
}

// From fills the receiver with elements from a. The receiver
// must have the same dimensions, bandwidth and uplo as a and
// have adequate backing data storage.
func (t HermitianBand) From(a HermitianBandCols) {
 if t.N != a.N {
  panic("cblas128:
 mismatched dimension")
 }
 if t.K != a.K {
  panic("cblas128: mismatched bandwidth")
 }
 if a.Stride < a.K+1 {
  panic("cblas128: short stride for source")
 }
 if t.Stride < t.K+1 {
```

```
 panic("cblas128: short stride for destination")
 }
 if t.Uplo != a.Uplo {
  panic("cblas128: mismatched BLAS uplo")
 }
 dst := Band{
  Rows: t.N, Cols: t.N,
  Stride: t.Stride,
  Data:   t.Data,
 }
 src := BandCols{
  Rows: a.N, Cols: a.N,
  Stride: a.Stride,
  Data:   a.Data,
 }
 switch a.Uplo {
 default:
  panic("cblas128: bad BLAS uplo")
 case blas.Upper:
  dst.KU = t.K
  src.KU = a.K
 case blas.Lower:
  dst.KL = t.K
  src.KL = a.K
 }
 dst.From(src)
}
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package optimize

import (
 "fmt"
 "io"
 "math"
 "os"
 "time"

 "gonum.org/v1/gonum/floats"
)

var printerHeadings = [...]string{
 "Iter",
 "Runtime",
 "FuncEvals",
 "Func",
```

```
 "GradEvals",
 "|Gradient|",
 "HessEvals",
}

const (
 printerBaseTmpl = "%9v  %16v  %9v  %22v" // Base template for headings and values that are always printed.
 printerGradTmpl = "  %9v  %22v"          // Appended to base template when loc.Gradient != nil.
 printerHessTmpl = "  %9v"               // Appended to base template when loc.Hessian != nil.
)

// Printer writes column-format output to the specified writer as the optimization
// progresses. By default, it writes to os.Stdout.
type Printer struct {
 Writer          io.Writer
 HeadingInterval int
 ValueInterval   time.Duration

 lastHeading int
 lastValue   time.Time
}

func NewPrinter() *Printer
 {
 return &Printer{
  Writer:          os.Stdout,
  HeadingInterval: 30,
  ValueInterval:   500 * time.Millisecond,
 }
}

func (p *Printer) Init() error {
 p.lastHeading = p.HeadingInterval              // So the headings are printed the first time.
 p.lastValue = time.Now().Add(-p.ValueInterval) // So the values are printed the first time.
 return nil
}

func (p *Printer) Record(loc *Location, op Operation, stats *Stats) error {
 if op != MajorIteration && op != InitIteration && op != PostIteration {
  return nil
 }

 // Print values always on PostIteration or when ValueInterval has elapsed.
 printValues := time.Since(p.lastValue) > p.ValueInterval || op == PostIteration
 if !printValues {
  // Return early if not printing anything.
  return nil
 }
```

```
 // Print heading when HeadingInterval lines have been printed, but never on PostIteration.
 printHeading := p.lastHeading >= p.HeadingInterval && op != PostIteration
 if printHeading {
  p.lastHeading = 1
 } else {
  p.lastHeading++
 }

 if
 printHeading {
  headings := "\n" + fmt.Sprintf(printerBaseTmpl, printerHeadings[0], printerHeadings[1], printerHeadings[2],
printerHeadings[3])
  if loc.Gradient != nil {
   headings += fmt.Sprintf(printerGradTmpl, printerHeadings[4], printerHeadings[5])
  }
  if loc.Hessian != nil {
   headings += fmt.Sprintf(printerHessTmpl, printerHeadings[6])
  }
  _, err := fmt.Fprintln(p.Writer, headings)
  if err != nil {
   return err
  }
 }

 values := fmt.Sprintf(printerBaseTmpl, stats.MajorIterations, stats.Runtime, stats.FuncEvaluations, loc.F)
 if loc.Gradient != nil {
  values += fmt.Sprintf(printerGradTmpl, stats.GradEvaluations, floats.Norm(loc.Gradient, math.Inf(1)))
 }
 if loc.Hessian != nil {
  values += fmt.Sprintf(printerHessTmpl, stats.HessEvaluations)
 }
 _, err := fmt.Fprintln(p.Writer, values)
 if err != nil {
  return err
 }

 p.lastValue = time.Now()
 return nil
}
graph{sW{sW}}
digraph stru{stru[e=d,]stru[e=d,]stru[e=d,]stru->stru stru->stru}
graph{Nodr{{Nodr}{Nodr}Nodr}Nodr{}{Nodr}{Nodr}""{Nodr}{Nodr}}
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```

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package errors

import (
 "fmt"
 "strings"

 "gonum.org/v1/gonum/graph/formats/dot/internal/token"
)

type ErrorSymbol interface {
}

type Error struct {
 Err            error
 ErrorToken     *token.Token
 ErrorSymbols   []ErrorSymbol
 ExpectedTokens []string
 StackTop       int
}

func (e *Error) String() string {
 w := new(strings.Builder)
 fmt.Fprintf(w, "Error")
 if e.Err != nil {
  fmt.Fprintf(w, " %s\n", e.Err)
 } else {
  fmt.Fprintf(w, "\n")
 }
 fmt.Fprintf(w, "Token: type=%d, lit=%s\n", e.ErrorToken.Type, e.ErrorToken.Lit)
 fmt.Fprintf(w, "Pos: offset=%d, line=%d, column=%d\n",
 e.ErrorToken.Pos.Offset, e.ErrorToken.Pos.Line, e.ErrorToken.Pos.Column)
 fmt.Fprintf(w, "Expected one of: ")
 for _, sym := range e.ExpectedTokens {
  fmt.Fprintf(w, "%s ", sym)
 }
 fmt.Fprintf(w, "ErrorSymbol:\n")
 for _, sym := range e.ErrorSymbols {
  fmt.Fprintf(w, "%v\n", sym)
 }
 return w.String()
}
```

```
func (e *Error) Error() string {
 w := new(strings.Builder)
 fmt.Fprintf(w, "Error in S%d: %s, %s", e.StackTop, token.TokMap.TokenString(e.ErrorToken),
e.ErrorToken.Pos.String())
 if e.Err != nil {
  fmt.Fprintf(w, ": %+v", e.Err)
 } else {
  fmt.Fprintf(w, ", expected one of: ")
  for _, expected := range e.ExpectedTokens {
   fmt.Fprintf(w, "%s ", expected)
  }
 }
 return w.String()
}
graph{{SUBGRAPH8}{SUBGRAPH8}{SUBGRAPH8}}
graph{D5{{D5}D5{{{D5}}D5{{D7{D5}}D5}{D7{D5}}D5{{{D5}}D5{{D7{D5}}D5}{}{D5}}}D5}}
Graph{{SubD{SubD}SubD{{SubF}}SubD{SubF}}}
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package dual_test

import (
 "fmt"

 "gonum.org/v1/gonum/num/dual"
)

func Example_Number_fike() {
 // Calculate the value and derivative of the function
 // e^x/(sqrt(sin(x)^3 + cos(x)^3)).
 fn := func(x dual.Number) dual.Number {
  return dual.Mul(
   dual.Exp(x),
   dual.Inv(dual.Sqrt(
    dual.Add(
     dual.PowReal(dual.Sin(x), 3),
     dual.PowReal(dual.Cos(x), 3)))))
 }

 v := fn(dual.Number{Real: 1.5, Emag: 1})
 fmt.Printf("v=%.4f\n", v)
 fmt.Printf("fn(1.5)=%.4f\nfn'(1.5)=%.4f\n", v.Real, v.Emag)

 // Output:
 //
```

```
 // v=(4.4978+4.0534)
 // fn(1.5)=4.4978
 // fn'(1.5)=4.0534
}
```
{{Types "Apache-2.0"}}

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Graph{DIGRAP{DIGRAP{DIGRAP}}}
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// Package testsgraphs provides a number of graphs used for testing
// routines in the path and path/dynamic packages.
package testgraphs // import "gonum.org/v1/gonum/graph/path/internal/testgraphs"
graph{nod{nod}nod{{nod}nod}}
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package gonum

import "gonum.org/v1/gonum/blas"

// Dgehd2 reduces a block of a general nn matrix A to upper Hessenberg form H
// by an orthogonal similarity transformation Q * A * Q = H.
//
// The matrix Q is represented as a product of (ihi-ilo) elementary
// reflectors
// Q = H_{ilo} H_{ilo+1} ... H_{ihi-1}.
// Each H_i has the form
// H_i = I - tau[i] * v * v
// where v is a real vector with v[0:i+1] = 0, v[i+1] = 1 and v[ihi+1:n] = 0.
// v[i+2:ihi+1] is stored on exit in A[i+2:ihi+1,i].

```
//
// On entry, a contains the nn general matrix to be reduced. On return, the
// upper triangle and the first subdiagonal of A are overwritten with the upper
// Hessenberg matrix H, and the elements below the first subdiagonal, with the
// slice tau, represent the orthogonal matrix Q as a product of elementary
// reflectors.
//
// The contents
 of A are illustrated by the following example, with n = 7, ilo =
// 1 and ihi = 5.
// On entry,
//  [ a   a   a   a   a   a   a ]
//  [     a   a   a   a   a   a ]
//  [     a   a   a   a   a   a ]
//  [     a   a   a   a   a   a ]
//  [     a   a   a   a   a   a ]
//  [     a   a   a   a   a   a ]
//  [                         a ]
// on return,
//  [ a   a   h   h   h   h   a ]
//  [     a   h   h   h   h   a ]
//  [     h   h   h   h   h   h ]
//  [     v1  h   h   h   h   h ]
//  [     v1  v2  h   h   h   h ]
//  [     v1  v2  v3  h   h   h ]
//  [                         a ]
// where a denotes an element of the original matrix A, h denotes a
// modified element of the upper Hessenberg matrix H, and vi denotes an
// element of the vector defining H_i.
//
// ilo and ihi determine the block of A that will be reduced to upper Hessenberg
// form. It must hold that 0 <= ilo <= ihi <= max(0, n-1), otherwise Dgehd2 will
// panic.
//
// On return, tau will contain the scalar factors
 of the elementary reflectors.
// It must have length equal to n-1, otherwise Dgehd2 will panic.
//
// work must have length at least n, otherwise Dgehd2 will panic.
//
// Dgehd2 is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dgehd2(n, ilo, ihi int, a []float64, lda int, tau, work []float64) {
 switch {
 case n < 0:
  panic(nLT0)
 case ilo < 0 || max(0, n-1) < ilo:
  panic(badIlo)
 case ihi < min(ilo, n-1) || n <= ihi:
```

```
 panic(badIhi)
case lda < max(1, n):
 panic(badLdA)
}

// Quick return if possible.
if n == 0 {
 return
}

switch {
case len(a) < (n-1)*lda+n:
 panic(shortA)
case len(tau) != n-1:
 panic(badLenTau)
case len(work) < n:
 panic(shortWork)
}

for i := ilo; i < ihi; i++ {
 // Compute elementary reflector H_i to annihilate A[i+2:ihi+1,i].
 var aii float64
 aii, tau[i] = impl.Dlarfg(ihi-i, a[(i+1)*lda+i], a[min(i+2, n-1)*lda+i:], lda)
 a[(i+1)*lda+i] = 1

 // Apply H_i to A[0:ihi+1,i+1:ihi+1] from the right.
 impl.Dlarf(blas.Right,
ihi+1, ihi-i, a[(i+1)*lda+i:], lda, tau[i], a[i+1:], lda, work)

 // Apply H_i to A[i+1:ihi+1,i+1:n] from the left.
 impl.Dlarf(blas.Left, ihi-i, n-i-1, a[(i+1)*lda+i:], lda, tau[i], a[(i+1)*lda+i+1:], lda, work)
 a[(i+1)*lda+i] = aii
}
}
```

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```
package testblas

import (
 "fmt"
 "testing"

 "golang.org/x/exp/rand"
 "gonum.org/v1/gonum/blas"
)
```

```
type Ztpsver interface {
 Ztpsv(uplo blas.Uplo, trans blas.Transpose, diag blas.Diag, n int, ap []complex128, x []complex128, incX int)

 Ztpmver
}

func ZtpsvTest(t *testing.T, impl Ztpsver) {
 rnd := rand.New(rand.NewSource(1))
 for _, uplo := range []blas.Uplo{blas.Upper, blas.Lower} {
  for _, trans := range []blas.Transpose{blas.NoTrans, blas.Trans, blas.ConjTrans} {
   for _, diag := range []blas.Diag{blas.NonUnit, blas.Unit} {
    for _, n := range []int{0, 1, 2, 3, 4, 10} {
     for _, incX := range []int{-11, -3, -2, -1, 1, 2, 3, 7} {
      ztpsvTest(t, impl, uplo, trans, diag, n, incX, rnd)
     }
    }
   }
  }
 }
}

// ztpsvTest tests Ztpsv by checking whether Ztpmv followed by Ztpsv
// round-trip.
func ztpsvTest(t
 *testing.T, impl Ztpsver, uplo blas.Uplo, trans blas.Transpose, diag blas.Diag, n, incX int, rnd *rand.Rand) {
 const tol = 1e-10

 // Allocate a dense-storage triangular matrix filled with NaNs that
 // will be used as a for creating the actual triangular matrix in packed
 // storage.
 lda := n
 a := makeZGeneral(nil, n, n, max(1, lda))
 // Fill the referenced triangle of A with random data.
 if uplo == blas.Upper {
  for i := 0; i < n; i++ {
   for j := i; j < n; j++ {
    re := rnd.NormFloat64()
    im := rnd.NormFloat64()
    a[i*lda+j] = complex(re, im)
   }
  }
 } else {
  for i := 0; i < n; i++ {
   for j := 0; j <= i; j++ {
    re := rnd.NormFloat64()
    im := rnd.NormFloat64()
    a[i*lda+j] = complex(re, im)
   }
```

```
 }
}
if diag == blas.Unit {
 // The diagonal should not be referenced by Ztpmv and Ztpsv, so
 // invalidate it with NaNs.
 for i := 0; i < n; i++ {
  a[i*lda+i] = znan
 }
}
// Create the triangular matrix in packed storage.
ap := zPack(uplo, n, a, n)
apCopy
:= make([]complex128, len(ap))
copy(apCopy, ap)

// Generate a random complex vector x.
xtest := make([]complex128, n)
for i := range xtest {
 re := rnd.NormFloat64()
 im := rnd.NormFloat64()
 xtest[i] = complex(re, im)
}
x := makeZVector(xtest, incX)

// Store a copy of x as the correct result that we want.
want := make([]complex128, len(x))
copy(want, x)

// Compute A*x, denoting the result by b and storing it in x.
impl.Ztpmv(uplo, trans, diag, n, ap, x, incX)
// Solve A*x = b, that is, x = A^{-1}*b = A^{-1}*A*x.
impl.Ztpsv(uplo, trans, diag, n, ap, x, incX)
// If Ztpsv is correct, A^{-1}*A = I and x contains again its original value.

name := fmt.Sprintf("uplo=%v,trans=%v,diag=%v,n=%v,incX=%v", uplo, trans, diag, n, incX)
if !zsame(ap, apCopy) {
 t.Errorf("%v: unexpected modification of ap", name)
}
if !zSameAtNonstrided(x, want, incX) {
 t.Errorf("%v: unexpected modification of x\nwant %v\ngot  %v", name, want, x)
}
if !zEqualApproxAtStrided(x, want, incX,
tol) {
 t.Errorf("%v: unexpected result\nwant %v\ngot  %v", name, want, x)
}
}
graph{STRI{STRI}{STRI}{STRI}STRI}
```

```
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package gonum

import (
 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/internal/asm/f32"
 "gonum.org/v1/gonum/internal/asm/f64"
)

// TODO(Kunde21):  Merge these methods back into level2double/level2single when Sgemv assembly kernels are
merged into f32.

// Dgemv computes
//  y = alpha * A * x + beta * y   if tA = blas.NoTrans
//  y = alpha * A * x + beta * y  if tA = blas.Trans or blas.ConjTrans
// where A is an mn dense matrix, x and y are vectors, and alpha and beta are scalars.
func (Implementation) Dgemv(tA blas.Transpose, m, n int, alpha float64, a []float64, lda int, x []float64, incX int,
beta float64, y []float64, incY int) {
 if tA != blas.NoTrans && tA != blas.Trans && tA != blas.ConjTrans {
  panic(badTranspose)
 }
 if m < 0 {
  panic(mLT0)
 }
 if n < 0 {
  panic(nLT0)
 }
 if lda < max(1, n) {
  panic(badLdA)
 }
 if
 incX == 0 {
  panic(zeroIncX)
 }
 if incY == 0 {
  panic(zeroIncY)
 }
 // Set up indexes
 lenX := m
 lenY := n
 if tA == blas.NoTrans {
  lenX = n
  lenY = m
 }
```

```
 // Quick return if possible
 if m == 0 || n == 0 {
  return
 }

 if (incX > 0 && (lenX-1)*incX >= len(x)) || (incX < 0 && (1-lenX)*incX >= len(x)) {
  panic(shortX)
 }
 if (incY > 0 && (lenY-1)*incY >= len(y)) || (incY < 0 && (1-lenY)*incY >= len(y)) {
  panic(shortY)
 }
 if len(a) < lda*(m-1)+n {
  panic(shortA)
 }

 // Quick return if possible
 if alpha == 0 && beta == 1 {
  return
 }

 if alpha == 0 {
  // First form y = beta * y
  if incY > 0 {
   Implementation{}.Dscal(lenY, beta, y, incY)
  } else {
   Implementation{}.Dscal(lenY, beta, y, -incY)
  }
  return
 }

 // Form y = alpha * A * x + y
 if tA == blas.NoTrans {
  f64.GemvN(uintptr(m), uintptr(n), alpha, a, uintptr(lda), x, uintptr(incX), beta, y, uintptr(incY))
  return
 }
 // Cases where a is transposed.
 f64.GemvT(uintptr(m), uintptr(n), alpha, a, uintptr(lda),
 x, uintptr(incX), beta, y, uintptr(incY))
}

// Sgemv computes
//  y = alpha * A * x + beta * y   if tA = blas.NoTrans
//  y = alpha * A * x + beta * y  if tA = blas.Trans or blas.ConjTrans
// where A is an mn dense matrix, x and y are vectors, and alpha and beta are scalars.
//
// Float32 implementations are autogenerated and not directly tested.
func (Implementation) Sgemv(tA blas.Transpose, m, n int, alpha float32, a []float32, lda int, x []float32, incX int,
beta float32, y []float32, incY int) {
```

```
if tA != blas.NoTrans && tA != blas.Trans && tA != blas.ConjTrans {
 panic(badTranspose)
}
if m < 0 {
 panic(mLT0)
}
if n < 0 {
 panic(nLT0)
}
if lda < max(1, n) {
 panic(badLdA)
}
if incX == 0 {
 panic(zeroIncX)
}
if incY == 0 {
 panic(zeroIncY)
}

// Quick return if possible.
if m == 0 || n == 0 {
 return
}

// Set up indexes
lenX := m
lenY := n
if tA == blas.NoTrans {
 lenX = n
 lenY = m
}
if (incX > 0 && (lenX-1)*incX >= len(x)) || (incX < 0 && (1-lenX)*incX
>= len(x)) {
 panic(shortX)
}
if (incY > 0 && (lenY-1)*incY >= len(y)) || (incY < 0 && (1-lenY)*incY >= len(y)) {
 panic(shortY)
}
if len(a) < lda*(m-1)+n {
 panic(shortA)
}

// Quick return if possible.
if alpha == 0 && beta == 1 {
 return
}

// First form y = beta * y
```

```
if incY > 0 {
 Implementation{}.Sscal(lenY, beta, y, incY)
} else {
 Implementation{}.Sscal(lenY, beta, y, -incY)
}

if alpha == 0 {
 return
}

var kx, ky int
if incX < 0 {
 kx = -(lenX - 1) * incX
}
if incY < 0 {
 ky = -(lenY - 1) * incY
}

// Form y = alpha * A * x + y
if tA == blas.NoTrans {
 if incX == 1 && incY == 1 {
  for i := 0; i < m; i++ {
   y[i] += alpha * f32.DotUnitary(a[lda*i:lda*i+n], x[:n])
  }
  return
 }
 iy := ky
 for i := 0; i < m; i++ {
  y[iy] += alpha * f32.DotInc(x, a[lda*i:lda*i+n], uintptr(n), uintptr(incX), 1, uintptr(kx), 0)
  iy += incY
 }
 return
}
// Cases where a is transposed.
if incX == 1 && incY == 1 {
 for i := 0; i < m; i++ {
  tmp
:= alpha * x[i]
  if tmp != 0 {
   f32.AxpyUnitaryTo(y, tmp, a[lda*i:lda*i+n], y[:n])
  }
 }
 return
}
ix := kx
for i := 0; i < m; i++ {
 tmp := alpha * x[ix]
 if tmp != 0 {
```

```
   f32.AxpyInc(tmp, a[lda*i:lda*i+n], y, uintptr(n), 1, uintptr(incY), 0, uintptr(ky))
  }
  ix += incX
 }
}
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// license that can be found in the LICENSE file.

package testlapack

import (
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas/blas64"
)

type Dorg2ler interface {
 Dorg2l(m, n, k int, a []float64, lda int, tau, work []float64)
 Dgeql2er
}

func Dorg2lTest(t *testing.T, impl Dorg2ler) {
 rnd := rand.New(rand.NewSource(1))
 for _, test := range []struct {
  m, n, k, lda int
 }{
  {5, 4, 3, 0},
  {5, 4, 4, 0},
  {3, 3, 2, 0},
  {5, 5, 5, 0},
  {5, 4, 3, 11},
  {5, 4, 4, 11},
  {3, 3, 2, 11},
  {5, 5, 5, 11},
 } {
  m := test.m
  n := test.n
  k := test.k
  lda := test.lda
  if lda == 0 {
   lda = n
  }

  a := make([]float64, m*lda)
  for i := range a {
```

```
  a[i] = rnd.NormFloat64()
  }
  tau := nanSlice(max(m, n))
  work := make([]float64, n)
  impl.Dgeql2(m, n, a, lda, tau, work)

  impl.Dorg2l(m, n, k, a, lda, tau[n-k:], work)
  if !hasOrthonormalColumns(blas64.General{Rows:
 m, Cols: n, Data: a, Stride: lda}) {
   t.Errorf("Case m=%v, n=%v, k=%v: columns of Q not orthonormal", m, n, k)
  }
 }
}
graph{8.185791015625}
graph{N{N}N{N}N{N}N{N}{N}N{N}N{N}{N}N{N{}}{}N{{}{}{}{}{}{}}}
graph{{STRE{STRE}}STRE{{{STRE{STRE}}{STRE}}STRE{STRE{STRE}}}}
graph{{{{Digra9}}Digra5}Digra9{Digra5}}
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package topo

import (
 "reflect"
 "sort"
 "testing"

 "gonum.org/v1/gonum/graph/internal/ordered"
 "gonum.org/v1/gonum/graph/simple"
)

var cyclesInTests = []struct {
 g    []intset
 want [][]int64
}{
 {
  g: []intset{
   0: linksTo(1),
   1: linksTo(2, 7),
   2: linksTo(3, 6),
   3: linksTo(4),
   4: linksTo(2, 5),
   6: linksTo(3, 5),
   7: linksTo(0, 6),
  },
  want: [][]int64{
   {0, 1, 7, 0},
```

```
  {2, 3, 4, 2},
  {2, 6, 3, 4, 2},
 },
},
{
 g: []intset{
  0: linksTo(1, 2, 3),
  1: linksTo(2),
  2: linksTo(3),
  3: linksTo(1),
 },
 want: [][]int64{
  {1, 2, 3, 1},
 },
},
{
 g: []intset{
  0: linksTo(1),
  1: linksTo(0, 2),
  2: linksTo(1),
 },
 want: [][]int64{
  {0, 1, 0},
  {1, 2, 1},
 },
},
{
 g: []intset{
  0: linksTo(1),
  1: linksTo(2, 3),
  2: linksTo(4, 5),
  3: linksTo(4, 5),
  4: linksTo(6),
  5:
nil,
  6: nil,
 },
 want: nil,
},
{
 g: []intset{
  0: linksTo(1),
  1: linksTo(2, 3, 4),
  2: linksTo(0, 3),
  3: linksTo(4),
  4: linksTo(3),
 },
 want: [][]int64{
```

```
   {0, 1, 2, 0},
   {3, 4, 3},
  },
 },
}

func TestDirectedCyclesIn(t *testing.T) {
 for i, test := range cyclesInTests {
  g := simple.NewDirectedGraph()
  g.AddNode(simple.Node(-10)) // Make sure we test graphs with sparse IDs.
  for u, e := range test.g {
   // Add nodes that are not defined by an edge.
   if g.Node(int64(u)) == nil {
    g.AddNode(simple.Node(u))
   }
   for v := range e {
    g.SetEdge(simple.Edge{F: simple.Node(u), T: simple.Node(v)})
   }
  }
  cycles := DirectedCyclesIn(g)
  var got [][]int64
  if cycles != nil {
   got = make([][]int64, len(cycles))
  }
  // johnson.circuit does range iteration over maps,
  // so sort to ensure consistent ordering.
  for j, c := range cycles {
   ids := make([]int64, len(c))
   for k, n := range c {
    ids[k] = n.ID()
   }
   got[j] =
 ids
  }
  sort.Sort(ordered.BySliceValues(got))
  if !reflect.DeepEqual(got, test.want) {
   t.Errorf("unexpected johnson result for %d:\n\tgot:%#v\n\twant:%#v", i, got, test.want)
  }
 }
}
digraph {
 "A" -> "B" ["color"="red"]
}
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// license that can be found in the LICENSE file.

package quad
```

```
import (
 "math"
 "sync"
)

// FixedLocationer computes a set of quadrature locations and weights and stores
// them in-place into x and weight respectively. The number of points generated is equal to
// the len(x). The weights and locations should be chosen such that
//  int_min^max f(x) dx  \sum_i w_i f(x_i)
type FixedLocationer interface {
 FixedLocations(x, weight []float64, min, max float64)
}

// FixedLocationSingle returns the location and weight for element k in a
// fixed quadrature rule with n total samples and integral bounds from min to max.
type FixedLocationSingler interface {
 FixedLocationSingle(n, k int, min, max float64) (x, weight float64)
}

// Fixed approximates the integral of the function f from min to max using a fixed
// n-point quadrature rule. During evaluation, f will be evaluated n times
 using
// the weights and locations specified by rule. That is, Fixed estimates
//  int_min^max f(x) dx  \sum_i w_i f(x_i)
// If rule is nil, an acceptable default is chosen, otherwise it is
// assumed that the properties of the integral match the assumptions of rule.
// For example, Legendre assumes that the integration bounds are finite. If
// rule is also a FixedLocationSingler, the quadrature points are computed
// individually rather than as a unit.
//
// If concurrent <= 0, f is evaluated serially, while if concurrent > 0, f
// may be evaluated with at most concurrent simultaneous evaluations.
//
// min must be less than or equal to max, and n must be positive, otherwise
// Fixed will panic.
func Fixed(f func(float64) float64, min, max float64, n int, rule FixedLocationer, concurrent int) float64 {
 // TODO(btracey): When there are Hermite polynomial quadrature, add an additional
 // example to the documentation comment that talks about weight functions.
 if n <= 0 {
  panic("quad:
 non-positive number of locations")
 }
 if min > max {
  panic("quad: min > max")
 }
 if min == max {
  return 0
```

```
}
intfunc := f
// If rule is non-nil it is assumed that the function and the constraints
// of rule are aligned. If it is nil, wrap the function and do something
// reasonable.
// TODO(btracey): Replace wrapping with other quadrature rules when
// we have rules that support infinite-bound integrals.
if rule == nil {
 // int_a^b f(x)dx = int_u^-1(a)^u^-1(b) f(u(t))u'(t)dt
 switch {
 case math.IsInf(max, 1) && math.IsInf(min, -1):
  // u(t) = (t/(1-t^2))
  min = -1
  max = 1
  intfunc = func(x float64) float64 {
   v := 1 - x*x
   return f(x/v) * (1 + x*x) / (v * v)
  }
 case math.IsInf(max, 1):
  // u(t) = a + t / (1-t)
  a := min
  min = 0
  max = 1
  intfunc = func(x float64) float64 {
   v := 1 - x
   return f(a+x/v) / (v * v)
  }
 case math.IsInf(min, -1):
  // u(t) = a - (1-t)/t
  a := max
  min = 0
  max = 1
  intfunc = func(x float64)
float64 {
   return f(a-(1-x)/x) / (x * x)
  }
 }
 rule = Legendre{}
}
singler, isSingler := rule.(FixedLocationSingler)

var xs, weights []float64
if !isSingler {
 xs = make([]float64, n)
 weights = make([]float64, n)
 rule.FixedLocations(xs, weights, min, max)
}
```

```
if concurrent > n {
 concurrent = n
}

if concurrent <= 0 {
 var integral float64
 // Evaluate in serial.
 if isSingler {
  for k := 0; k < n; k++ {
   x, weight := singler.FixedLocationSingle(n, k, min, max)
   integral += weight * intfunc(x)
  }
  return integral
 }
 for i, x := range xs {
  integral += weights[i] * intfunc(x)
 }
 return integral
}

// Evaluate concurrently
tasks := make(chan int)

// Launch distributor
go func() {
 for i := 0; i < n; i++ {
  tasks <- i
 }
 close(tasks)
}()

var mux sync.Mutex
var integral float64
var wg sync.WaitGroup
wg.Add(concurrent)
for i := 0; i < concurrent; i++ {
 // Launch workers
 go func() {
  defer wg.Done()
  var subIntegral
float64
  for k := range tasks {
   var x, weight float64
   if isSingler {
    x, weight = singler.FixedLocationSingle(n, k, min, max)
   } else {
    x = xs[k]
    weight = weights[k]
```

```
    }
    f := intfunc(x)
    subIntegral += f * weight
   }
   mux.Lock()
   integral += subIntegral
   mux.Unlock()
  }()
 }
 wg.Wait()
 return integral
}
```

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```
graph{Stria-9Stria}
digraph{e[l=<<E><R><D><D><D><D><R><E>>]}
      SUBROUTINE ZS1S2(ZRR, ZRI, S1R, S1I, S2R, S2I, NZ, ASCLE, ALIM,
     * IUF)
C***BEGIN PROLOGUE  ZS1S2
C***REFER TO  ZBESK,ZAIRY
C
C     ZS1S2 TESTS FOR A POSSIBLE UNDERFLOW RESULTING FROM THE
```

```
C     ADDITION OF THE I AND K FUNCTIONS IN THE ANALYTIC CON-
C     TINUATION FORMULA WHERE S1=K FUNCTION AND S2=I FUNCTION.
C     ON KODE=1 THE I AND K FUNCTIONS ARE DIFFERENT ORDERS OF
C     MAGNITUDE, BUT FOR KODE=2 THEY CAN BE OF THE SAME ORDER
C     OF MAGNITUDE AND THE MAXIMUM MUST BE AT LEAST ONE
C     PRECISION ABOVE THE UNDERFLOW LIMIT.
C
C***ROUTINES CALLED  ZABS,ZEXP,ZLOG
C***END PROLOGUE  ZS1S2
C     COMPLEX CZERO,C1,S1,S1D,S2,ZR
      DOUBLE PRECISION AA, ALIM, ALN, ASCLE, AS1, AS2, C1I, C1R, S1DI,
     * S1DR, S1I, S1R, S2I, S2R, ZEROI, ZEROR, ZRI, ZRR, ZABS
      INTEGER IUF, IDUM, NZ
      DATA ZEROR,ZEROI  / 0.0D0 , 0.0D0 /
      NZ = 0
      AS1 = ZABS(CMPLX(S1R,S1I,kind=KIND(1.0D0)))
      AS2 = ZABS(CMPLX(S2R,S2I,kind=KIND(1.0D0)))
      IF (S1R.EQ.0.0D0 .AND. S1I.EQ.0.0D0)
 GO TO 10
      IF (AS1.EQ.0.0D0) GO TO 10
      ALN = -ZRR - ZRR + DLOG(AS1)
      S1DR = S1R
      S1DI = S1I
      S1R = ZEROR
      S1I = ZEROI
      AS1 = ZEROR
      IF (ALN.LT.(-ALIM)) GO TO 10
      CALL ZLOG(S1DR, S1DI, C1R, C1I, IDUM)
      C1R = C1R - ZRR - ZRR
      C1I = C1I - ZRI - ZRI
      CALL ZEXP(C1R, C1I, S1R, S1I)
      AS1 = ZABS(CMPLX(S1R,S1I,kind=KIND(1.0D0)))
      IUF = IUF + 1
   10 CONTINUE
      AA = DMAX1(AS1,AS2)
      IF (AA.GT.ASCLE) THEN
        RETURN
      END IF
      S1R = ZEROR
      S1I = ZEROI
      S2R = ZEROR
      S2I = ZEROI
      NZ = 1
      IUF = 0
      RETURN
      END
graph{{{{DiGrap}DiGrap{{DiGrap}}DiGrap}}}
```

digraph {e""[e=e,e=8]r st9->st9[l=""]st9->st0[l=""]st8->st8[l=""]st8->st0[l=""]st7->st8[l=""]st7->st7[l=""]st6->st6[l=""]st6->st0[l=""]st5->st6[l=""]st5->st5[l=""]st4->st4[l=""]st4->st0[l=""]st3->st4[l=""]st3->st3[l=""]st2->st9[l=""]st2->st7[l=""]st2->st2[l=""]st0->st0[l=""]st0->st0[l=""]st1->st5[l=""]st1->st3[l=""]st1->st1[l=""]st0->st2[l=""]st0->st1[l=""]st0->st0[l="0/0"];
}
graph{Sub_{{Sub_{{Sub_{Sub_}Sub_}}}{Sub_{{}}}{Sub_{{Sub_{Sub_}Sub_}}}{Sub_}{}}}
//** github.com/ipfs/go-pinning-service-http-client@v0.1.0 **//

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 ([...vljevcba](https://gateway.ipfs.io/ipfs/bafkreiepofszg4gfe2gzuhojmksgemsub2h4uy2gewdnr35kswvljevcba))

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`SPDX-License-Identifier: Apache-2.0 OR MIT`
graph{{{subGG}subGT}}
graph{{Gr_}{Gr_}}
graph{g_{g_}{g_{g_}}}
graph{{{{{{DiGrapr{{DiGrapi}}}}}{{{}DiGrapn}}{{{}}}{{{DiGrapi}}}{{""}}}}}
graph{st{st}st}
graph{{{DiGrapR}DiGrapR}}
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/*
Package clip provides operations for clipping paint operations.
Drawing outside the current clip area is ignored.

The current clip is initially the infinite set. An Op sets the clip
to the intersection of the current clip and the clip area it
represents. If you need to reset the current clip to its value

```
before applying an Op, use op.StackOp.

General clipping areas are constructed with Path. Simpler special
cases such as rectangular clip areas also exist as convenient
constructors.
*/
package clip
*> \brief \b DLABAD
*
*  =========== DOCUMENTATION ===========
*
* Online html documentation available at
*            http://www.netlib.org/lapack/explore-html/
*
*> \htmlonly
*> Download DLABAD + dependencies
*> <a href="http://www.netlib.org/cgi-bin/netlibfiles.tgz?format=tgz&filename=/lapack/lapack_routine/dlabad.f">
*> [TGZ]</a>
*> <a href="http://www.netlib.org/cgi-bin/netlibfiles.zip?format=zip&filename=/lapack/lapack_routine/dlabad.f">
*> [ZIP]</a>
*> <a href="http://www.netlib.org/cgi-bin/netlibfiles.txt?format=txt&filename=/lapack/lapack_routine/dlabad.f">
*> [TXT]</a>
*> \endhtmlonly
*
*  Definition:
*  ===========
*
*       SUBROUTINE DLABAD( SMALL, LARGE )
*
*       .. Scalar Arguments ..
*       DOUBLE PRECISION   LARGE, SMALL
*       ..
*
*
*> \par Purpose:
*  =============
*>
*> \verbatim
*>
*> DLABAD takes as input the values computed by DLAMCH for underflow and
*> overflow, and returns the square root of each of these values if the
*> log of LARGE is sufficiently
 large.  This subroutine is intended to
*> identify machines with a large exponent range, such as the Crays, and
*> redefine the underflow and overflow limits to be the square roots of
*> the values computed by DLAMCH.  This subroutine is needed because
*> DLAMCH does not compensate for poor arithmetic in the upper half of
*> the exponent range, as is found on a Cray.
```

```
*> \endverbatim
*
*  Arguments:
*  ==========
*
*> \param[in,out] SMALL
*> \verbatim
*>          SMALL is DOUBLE PRECISION
*>          On entry, the underflow threshold as computed by DLAMCH.
*>          On exit, if LOG10(LARGE) is sufficiently large, the square
*>          root of SMALL, otherwise unchanged.
*> \endverbatim
*>
*> \param[in,out] LARGE
*> \verbatim
*>          LARGE is DOUBLE PRECISION
*>          On entry, the overflow threshold as computed by DLAMCH.
*>          On exit, if LOG10(LARGE) is sufficiently large, the square
*>          root of LARGE, otherwise unchanged.
*> \endverbatim
*
*  Authors:
*
  ========
*
*> \author Univ. of Tennessee
*> \author Univ. of California Berkeley
*> \author Univ. of Colorado Denver
*> \author NAG Ltd.
*
*> \date November 2011
*
*> \ingroup auxOTHERauxiliary
*
*  =====================================================================
      SUBROUTINE DLABAD( SMALL, LARGE )
*
*  -- LAPACK auxiliary routine (version 3.4.0) --
*  -- LAPACK is a software package provided by Univ. of Tennessee,    --
*  -- Univ. of California Berkeley, Univ. of Colorado Denver and NAG Ltd..--
*     November 2011
*
*     .. Scalar Arguments ..
      DOUBLE PRECISION   LARGE, SMALL
*     ..
*
*  =====================================================================
*
```

```
*     .. Intrinsic Functions ..
      INTRINSIC          LOG10, SQRT
*     ..
*     .. Executable Statements ..
*
*     If it looks like we're on a Cray, take the square root of
*     SMALL and LARGE to avoid overflow and underflow problems.
*
*     IF( LOG10( LARGE ).GT.2000.D0 ) THEN
*        SMALL = SQRT(
 SMALL )
*        LARGE = SQRT( LARGE )
*     END IF
*
      RETURN
*
*     End of DLABAD
*
      END
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// license that can be found in the LICENSE file.

package spatial_test

import (
 "fmt"

 "gonum.org/v1/gonum/mat"
 "gonum.org/v1/gonum/stat/spatial"
)

func ExampleGlobalMoransI_linear() {
 data := []float64{0, 0, 0, 1, 1, 1, 0, 1, 0, 0}

 // The locality here describes spatial neighbor
 // relationships.
 locality := mat.NewDense(10, 10, []float64{
  0, 1, 0, 0, 0, 0, 0, 0, 0, 0,
  1, 0, 1, 0, 0, 0, 0, 0, 0, 0,
  0, 1, 0, 1, 0, 0, 0, 0, 0, 0,
  0, 0, 1, 0, 1, 0, 0, 0, 0, 0,
  0, 0, 0, 1, 0, 1, 0, 0, 0, 0,
  0, 0, 0, 0, 1, 0, 1, 0, 0, 0,
  0, 0, 0, 0, 0, 1, 0, 1, 0, 0,
  0, 0, 0, 0, 0, 0, 1, 0, 1, 0,
  0, 0, 0, 0, 0, 0, 0, 1, 0, 1,
  0, 0, 0, 0, 0, 0, 0, 0, 1, 0,
```

```
 })

 i, _, z := spatial.GlobalMoransI(data, nil, locality)

 fmt.Printf("Moran's I=%.4v z-score=%.4v\n", i, z)

 // Output:
 //
 // Moran's I=0.1111 z-score=0.6335
}

func ExampleGlobalMoransI_banded() {
 data := []float64{0,
 0, 0, 1, 1, 1, 0, 1, 0, 0}

 // The locality here describes spatial neighbor
 // relationships.
 // This example uses the band matrix representation
 // to improve time and space efficiency.
 locality := mat.NewBandDense(10, 10, 1, 1, []float64{
  0, 0, 1,
  1, 0, 1,
  1, 0, 1,
  1, 0, 1,
  1, 0, 1,
  1, 0, 1,
  1, 0, 1,
  1, 0, 1,
  1, 0, 1,
  1, 0, 0,
 })

 i, _, z := spatial.GlobalMoransI(data, nil, locality)

 fmt.Printf("Moran's I=%.4v z-score=%.4v\n", i, z)

 // Output:
 //
 // Moran's I=0.1111 z-score=0.6335
}

func ExampleGetisOrdGStar() {
 data := []float64{0, 0, 0, 1, 1, 1, 0, 1, 0, 0}

 // The locality here describes spatial neighbor
 // relationships including self.
 locality := mat.NewDense(10, 10, []float64{
  1, 1, 0, 0, 0, 0, 0, 0, 0, 0,
```

```
 1, 1, 1, 0, 0, 0, 0, 0, 0, 0,
 0, 1, 1, 1, 0, 0, 0, 0, 0, 0,
 0, 0, 1, 1, 1, 0, 0, 0, 0, 0,
 0, 0, 0, 1, 1, 1, 0, 0, 0, 0,
 0, 0, 0, 0, 1, 1, 1, 0, 0, 0,
 0, 0, 0, 0, 0, 1, 1, 1, 0, 0,
 0, 0, 0, 0, 0, 0, 1, 1, 1, 0,
 0,
0, 0, 0, 0, 0, 0, 1, 1, 1,
 0, 0, 0, 0, 0, 0, 0, 0, 1, 1,
})

for i, v := range data {
 fmt.Printf("v=%v G*i=% .4v\n", v, spatial.GetisOrdGStar(i, data, nil, locality))
}

// Output:
//
// v=0 G*i=-1.225
// v=0 G*i=-1.604
// v=0 G*i=-0.2673
// v=1 G*i= 1.069
// v=1 G*i= 2.405
// v=1 G*i= 1.069
// v=0 G*i= 1.069
// v=1 G*i=-0.2673
// v=0 G*i=-0.2673
// v=0 G*i=-1.225
}

func ExampleGetisOrdGStar_banded() {
 data := []float64{0, 0, 0, 1, 1, 1, 0, 1, 0, 0}

 // The locality here describes spatial neighbor
 // relationships including self.
 // This example uses the band matrix representation
 // to improve time and space efficiency.
 locality := mat.NewBandDense(10, 10, 1, 1, []float64{
  0, 1, 1,
  1, 1, 1,
  1, 1, 1,
  1, 1, 1,
  1, 1, 1,
  1, 1, 1,
  1, 1, 1,
  1, 1, 1,
  1, 1, 1,
  1, 1, 0,
```

```
 })

 for i, v := range data {
  fmt.Printf("v=%v G*i=% .4v\n", v, spatial.GetisOrdGStar(i, data, nil, locality))
 }

 // Output:
 //
 // v=0 G*i=-1.225
 // v=0 G*i=-1.604
 //
 v=0 G*i=-0.2673
 // v=1 G*i= 1.069
 // v=1 G*i= 2.405
 // v=1 G*i= 1.069
 // v=0 G*i= 1.069
 // v=1 G*i=-0.2673
 // v=0 G*i=-0.2673
 // v=0 G*i=-1.225
}
// Copyright 2018 The Gonum Authors. All rights reserved.
// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

package hyperdual

import (
 "fmt"
 "math"
 "strings"
)

// Number is a float64 precision hyperdual number.
type Number struct {
 Real, E1mag, E2mag, E1E2mag float64
}

var (
 zero    = Number{}
 negZero = math.Float64frombits(1 << 63)
)

// Format implements fmt.Formatter.
func (d Number) Format(fs fmt.State, c rune) {
 prec, pOk := fs.Precision()
 if !pOk {
  prec = -1
 }
```

```
 width, wOk := fs.Width()
 if !wOk {
  width = -1
 }
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T{Real:%#v, E1mag:%#v, E2mag:%#v, E1E2mag:%#v}", d, d.Real, d.E1mag, d.E2mag,
d.E1E2mag)
   return
  }
  if fs.Flag('+') {
   fmt.Fprintf(fs, "{Real:%+v, E1mag:%+v, E2mag:%+v, E1E2mag:%+v}", d.Real, d.E1mag, d.E2mag, d.E1E2mag)
   return
  }
  c = 'g'
  prec = -1
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  fre := fmtString(fs, c, prec,
 width, false)
  fim := fmtString(fs, c, prec, width, true)
  fmt.Fprintf(fs, fmt.Sprintf("(%s%[2]s%[2]s%[2]s)", fre, fim), d.Real, d.E1mag, d.E2mag, d.E1E2mag)
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%[2]v)", c, d)
  return
 }
}

// This is horrible, but it's what we have.
func fmtString(fs fmt.State, c rune, prec, width int, wantPlus bool) string {
 var b strings.Builder
 b.WriteByte('%')
 for _, f := range "0+- " {
  if fs.Flag(int(f)) || (f == '+' && wantPlus) {
   b.WriteByte(byte(f))
  }
 }
 if width >= 0 {
  fmt.Fprint(&b, width)
 }
 if prec >= 0 {
  b.WriteByte('.')
  if prec > 0 {
   fmt.Fprint(&b, prec)
  }
 }
 b.WriteRune(c)
```

```
 return b.String()
}

// Add returns the sum of x and y.
func Add(x, y Number) Number {
 return Number{
  Real:    x.Real + y.Real,
  E1mag:   x.E1mag + y.E1mag,
  E2mag:   x.E2mag + y.E2mag,
  E1E2mag: x.E1E2mag + y.E1E2mag,
 }
}

// Sub returns the difference of x and y, x-y.
func Sub(x, y Number) Number {
 return Number{
  Real:    x.Real - y.Real,
  E1mag:
   x.E1mag - y.E1mag,
  E2mag:   x.E2mag - y.E2mag,
  E1E2mag: x.E1E2mag - y.E1E2mag,
 }
}

// Mul returns the hyperdual product of x and y.
func Mul(x, y Number) Number {
 return Number{
  Real:    x.Real * y.Real,
  E1mag:   x.Real*y.E1mag + x.E1mag*y.Real,
  E2mag:   x.Real*y.E2mag + x.E2mag*y.Real,
  E1E2mag: x.Real*y.E1E2mag + x.E1mag*y.E2mag + x.E2mag*y.E1mag + x.E1E2mag*y.Real,
 }
}

// Inv returns the hyperdual inverse of d.
//
// Special cases are:
// Inv(Inf) = 0-0-00
// Inv(0) = Inf-Inf-InfInf
func Inv(d Number) Number {
 if d.Real == 0 {
  return Number{
   Real:    1 / d.Real,
   E1mag:   math.Inf(-1),
   E2mag:   math.Inf(-1),
   E1E2mag: 1 / d.Real, // Return a signed inf from a signed zero.
  }
 }
```

```
 d2 := d.Real * d.Real
 return Number{
  Real:    1 / d.Real,
  E1mag:   -d.E1mag / d2,
  E2mag:   -d.E2mag / d2,
  E1E2mag: -d.E1E2mag/d2 + 2*d.E1mag*d.E2mag/(d2*d.Real),
 }
}

// Scale returns d scaled by f.
func Scale(f float64, d Number) Number {
 return Number{Real:
 f * d.Real, E1mag: f * d.E1mag, E2mag: f * d.E2mag, E1E2mag: f * d.E1E2mag}
}

// Abs returns the absolute value of d.
func Abs(d Number) Number {
 if math.Float64bits(d.Real)&(1<<63) == 0 {
  return d
 }
 return Scale(-1, d)
}
graph{DI9{DI9{{DI9}}DI9{DI9{{DI9}}}}}
// Copyright 2015 The Gonum Authors. All rights reserved.
// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

package testlapack

import (
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
)

type Dgeqp3er interface {
 Dlapmter
 Dgeqp3(m, n int, a []float64, lda int, jpvt []int, tau, work []float64, lwork int)
}

func Dgeqp3Test(t *testing.T, impl Dgeqp3er) {
 rnd := rand.New(rand.NewSource(1))
 for c, test := range []struct {
  m, n, lda int
 }{
```

```
 {1, 1, 0},
 {2, 2, 0},
 {3, 2, 0},
 {2, 3, 0},
 {1, 12, 0},
 {2, 6, 0},
 {3, 4, 0},
 {4, 3, 0},
 {6, 2, 0},
 {12, 1, 0},
 {1, 1, 20},
 {2, 2, 20},
 {3, 2, 20},
 {2, 3, 20},
 {1, 12, 20},
 {2, 6, 20},
 {3, 4, 20},
 {4, 3, 20},
 {6, 2, 20},
 {12, 1, 20},
 {129, 256, 0},
 {256, 129, 0},
 {129, 256, 266},
 {256, 129, 266},
} {
 n := test.n
 m := test.m
 lda := test.lda
 if lda == 0 {
  lda = test.n
 }
 const (
  all
= iota
  some
  none
 )
 for _, free := range []int{all, some, none} {
  // Allocate mn matrix A and fill it with random numbers.
  a := make([]float64, m*lda)
  for i := range a {
   a[i] = rnd.Float64()
  }
  // Store a copy of A for later comparison.
  aCopy := make([]float64, len(a))
  copy(aCopy, a)
  // Allocate a slice of column pivots.
  jpvt := make([]int, n)
```

```
 for j := range jpvt {
  switch free {
  case all:
   // All columns are free.
   jpvt[j] = -1
  case some:
   // Some columns are free, some are leading columns.
   jpvt[j] = rnd.Intn(2) - 1 // -1 or 0
  case none:
   // All columns are leading.
   jpvt[j] = 0
  default:
   panic("bad freedom")
  }
 }
 // Allocate a slice for scalar factors of elementary
 // reflectors and fill it with random numbers. Dgeqp3
 // will overwrite them with valid data.
 k := min(m, n)
 tau := make([]float64, k)
 for i := range tau {
  tau[i] = rnd.Float64()
 }
 // Get optimal workspace
size for Dgeqp3.
 work := make([]float64, 1)
 impl.Dgeqp3(m, n, a, lda, jpvt, tau, work, -1)
 lwork := int(work[0])
 work = make([]float64, lwork)
 for i := range work {
  work[i] = rnd.Float64()
 }

 // Compute a QR factorization of A with column pivoting.
 impl.Dgeqp3(m, n, a, lda, jpvt, tau, work, lwork)

 // Compute Q based on the elementary reflectors stored in A.
 q := constructQ("QR", m, n, a, lda, tau)
 // Check that Q is orthogonal.
 if !isOrthogonal(q) {
  t.Errorf("Case %v, Q not orthogonal", c)
 }

 // Copy the upper triangle of A into R.
 r := blas64.General{
  Rows:   m,
  Cols:   n,
  Stride: n,
```

```
   Data:   make([]float64, m*n),
  }
  for i := 0; i < m; i++ {
   for j := i; j < n; j++ {
    r.Data[i*n+j] = a[i*lda+j]
   }
  }
  // Compute Q * R.
  got := nanGeneral(m, n, lda)
  blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, q, r, 0, got)
  // Compute A * P: rearrange the columns of A based on the permutation in jpvt.
  want
 := blas64.General{Rows: m, Cols: n, Stride: lda, Data: aCopy}
  impl.Dlapmt(true, want.Rows, want.Cols, want.Data, want.Stride, jpvt)
  // Check that A * P = Q * R.
  if !equalApproxGeneral(got, want, 1e-13) {
   t.Errorf("Case %v,  Q*R != A*P\nQ*R=%v\nA*P=%v", c, got, want)
  }
 }
}
}
graph{{DIGRAG{{DIGRAG}{DIGRAG}DIGRAG}{DIGRAG}}{DIGRAG{{DIGRAG}{}DIGRAG}}{DIGRA
G{{DIGRAG}{}DIGRAG}{DIGRAG}}{DIGRAG{{DIGRAG}{DIGRAG}}{DIGRAG}}}
graph{{i=""l=""e=g{{i=""l=""e=_}}}}
graph{SUf{}SUq}
graph{graphE}
// SPDX-License-Identifier: Unlicense OR MIT

// Package gofont registers the Go fonts in the font registry.
//
// See https://blog.golang.org/go-fonts for a description of the
// fonts, and the golang.org/x/image/font/gofont packages for the
// font data.
package gofont

import (
 "fmt"

 "gioui.org/font"
 "gioui.org/font/opentype"
 "gioui.org/text"
 "golang.org/x/image/font/gofont/gobold"
 "golang.org/x/image/font/gofont/gobolditalic"
 "golang.org/x/image/font/gofont/goitalic"
 "golang.org/x/image/font/gofont/gomedium"
 "golang.org/x/image/font/gofont/gomediumitalic"
 "golang.org/x/image/font/gofont/gomono"
 "golang.org/x/image/font/gofont/gomonobold"
```

```
 "golang.org/x/image/font/gofont/gomonobolditalic"
 "golang.org/x/image/font/gofont/gomonoitalic"
 "golang.org/x/image/font/gofont/goregular"
 "golang.org/x/image/font/gofont/gosmallcaps"
 "golang.org/x/image/font/gofont/gosmallcapsitalic"
)

func Register() {
 register(text.Font{}, goregular.TTF)
 register(text.Font{Style: text.Italic},
 goitalic.TTF)
 register(text.Font{Weight: text.Bold}, gobold.TTF)
 register(text.Font{Style: text.Italic, Weight: text.Bold}, gobolditalic.TTF)
 register(text.Font{Weight: text.Medium}, gomedium.TTF)
 register(text.Font{Weight: text.Medium, Style: text.Italic}, gomediumitalic.TTF)
 register(text.Font{Variant: "Mono"}, gomono.TTF)
 register(text.Font{Variant: "Mono", Weight: text.Bold}, gomonobold.TTF)
 register(text.Font{Variant: "Mono", Weight: text.Bold, Style: text.Italic}, gomonobolditalic.TTF)
 register(text.Font{Variant: "Mono", Style: text.Italic}, gomonoitalic.TTF)
 register(text.Font{Variant: "Mono", Style: text.Italic}, gomonoitalic.TTF)
 register(text.Font{Variant: "Smallcaps"}, gosmallcaps.TTF)
 register(text.Font{Variant: "Smallcaps", Style: text.Italic}, gosmallcapsitalic.TTF)
}

func register(fnt text.Font, ttf []byte) {
 face, err := opentype.Parse(ttf)
 if err != nil {
  panic(fmt.Sprintf("failed to parse font: %v", err))
 }
 fnt.Typeface = "Go"
 font.Register(fnt, face)
}
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// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

package gonum

import (
 "fmt"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
)

var benchSinkZ []complex128
```

```
func BenchmarkZher(b *testing.B) {
 for _, uplo := range []blas.Uplo{blas.Upper, blas.Lower} {
  for _, n := range []int{10, 100, 1000, 10000} {
   for _, inc := range []int{1, 10, 1000} {
    benchmarkZher(b, uplo, n, inc)
   }
  }
 }
}

func benchmarkZher(b *testing.B, uplo blas.Uplo, n, inc int) {
 b.Run(fmt.Sprintf("Uplo%d-N%d-Inc%d", uplo, n, inc), func(b *testing.B) {
  rnd := rand.New(rand.NewSource(1))
  alpha := rnd.NormFloat64()
  x := make([]complex128, (n-1)*inc+1)
  for i := range x {
   x[i] = complex(rnd.NormFloat64(), rnd.NormFloat64())
  }
  a := make([]complex128, len(benchSinkZ))
  for i := range a {
   a[i] = complex(rnd.NormFloat64(), rnd.NormFloat64())
  }
  benchSinkZ = make([]complex128,
 n*n)
  copy(benchSinkZ, a)
  b.ResetTimer()
  for i := 0; i < b.N; i++ {
   impl.Zher(uplo, n, alpha, x, inc, benchSinkZ, n)
   copy(benchSinkZ, a)
  }
 })
}
graph{{stric9}stric9{stric4}}
graph{{{DiD{DiD{DiD}}}}}
graph{eD""eD""eN}
digraph{gs[r=e]n->gt[r=n]n->s[r=e]n->s[r=n]n->c[r=n]gt[r=n]n->r[r=e]n->s[r=n]a:gs->c[r=e]s->i[r=n]s->t[r=n]s-
>t[r=n]s->c[r=n]t->e[r=e]t->c[r=n]t->c[r=n]t->r[r=e]t->e[r=n]c->c[r=n]c->r[r=e]r->t[r=e]r->f[r=e]r->r[r=e]e-
>s[r=d]e->f[r=d]e->d[r=n]s->e[r=n]s->n[r=n]s->t[r=n]s->e[r=e]}
graph{{Dig}{Dig}{Dig}{Dig}Dig}
graph{SUBGRAT}
graph{Nodeh{Nodeh}}
graph{"\\\\
\\\\
omitting {sssssssss}\\\\\\\\\\\\\\\\\\\\\\\\"}
graph{{{diGE{diGE}}}}
graph{{{{digra4}}}}
```

graph{{{{EDGD}EDGD{}}}{""EDGD}{""EDGD}{{""{EDGD{{}}}}EDGD}{}{{{EDGD{{EDGD}}}EDGD{EDGD}}EDGD}}
graph{{{gra_{}gra_}}}
graph{{DIG{DIGG}DIGG{}DIGG{DIG}DIG}}

```
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// license that can be found in the LICENSE file.

package network

import (
 "math"

 "gonum.org/v1/gonum/graph"
 "gonum.org/v1/gonum/graph/path"
)

// Closeness returns the closeness centrality for nodes in the graph g used to
// construct the given shortest paths.
//
//  C(v) = 1 / \sum_u d(u,v)
//
// For directed graphs the incoming paths are used. Infinite distances are
// not considered.
func Closeness(g graph.Graph, p path.AllShortest) map[int64]float64 {
 nodes := graph.NodesOf(g.Nodes())
 c := make(map[int64]float64, len(nodes))
 for _, u := range nodes {
  uid := u.ID()
  var sum float64
  for _, v := range nodes {
   vid := v.ID()
   // The ordering here is not relevant for
   // undirected graphs, but we make sure we
   // are counting incoming paths.
   d := p.Weight(vid, uid)
   if math.IsInf(d, 0) {
    continue
   }
   sum += d
  }
  c[u.ID()] = 1 / sum
 }
 return
 c
}

// Farness returns the farness for nodes in the graph g used to construct
```

```
// the given shortest paths.
//
//  F(v) = \sum_u d(u,v)
//
// For directed graphs the incoming paths are used. Infinite distances are
// not considered.
func Farness(g graph.Graph, p path.AllShortest) map[int64]float64 {
 nodes := graph.NodesOf(g.Nodes())
 f := make(map[int64]float64, len(nodes))
 for _, u := range nodes {
  uid := u.ID()
  var sum float64
  for _, v := range nodes {
   vid := v.ID()
   // The ordering here is not relevant for
   // undirected graphs, but we make sure we
   // are counting incoming paths.
   d := p.Weight(vid, uid)
   if math.IsInf(d, 0) {
    continue
   }
   sum += d
  }
  f[u.ID()] = sum
 }
 return f
}

// Harmonic returns the harmonic centrality for nodes in the graph g used to
// construct the given shortest paths.
//
//  H(v)= \sum_{u  v} 1 / d(u,v)
//
// For directed graphs the incoming paths are used. Infinite distances are
// not considered.
func Harmonic(g graph.Graph,
 p path.AllShortest) map[int64]float64 {
 nodes := graph.NodesOf(g.Nodes())
 h := make(map[int64]float64, len(nodes))
 for i, u := range nodes {
  uid := u.ID()
  var sum float64
  for j, v := range nodes {
   vid := v.ID()
   // The ordering here is not relevant for
   // undirected graphs, but we make sure we
   // are counting incoming paths.
   d := p.Weight(vid, uid)
```

```
   if math.IsInf(d, 0) {
    continue
   }
   if i != j {
    sum += 1 / d
   }
  }
  h[u.ID()] = sum
 }
 return h
}

// Residual returns the Dangalchev's residual closeness for nodes in the graph
// g used to construct the given shortest paths.
//
//  C(v)= \sum_{u  v} 1 / 2^d(u,v)
//
// For directed graphs the incoming paths are used. Infinite distances are
// not considered.
func Residual(g graph.Graph, p path.AllShortest) map[int64]float64 {
 nodes := graph.NodesOf(g.Nodes())
 r := make(map[int64]float64, len(nodes))
 for i, u := range nodes {
  uid := u.ID()
  var sum float64
  for j, v := range nodes {
   vid
 := v.ID()
   // The ordering here is not relevant for
   // undirected graphs, but we make sure we
   // are counting incoming paths.
   d := p.Weight(vid, uid)
   if math.IsInf(d, 0) {
    continue
   }
   if i != j {
    sum += math.Exp2(-d)
   }
  }
  r[u.ID()] = sum
 }
 return r
}
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// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

package mathext
```

```
import (
 "math"
 "testing"
)

func TestAiry(t *testing.T) {
 for _, test := range []struct {
  z, ans complex128
 }{
  // Results computed using Octave.
  {5, 1.08344428136074e-04},
  {5i, 29.9014823980070 + 21.6778315987835i},
 } {
  ans := AiryAi(test.z)
  if math.Abs(real(ans)-real(test.ans)) > 1e-10 {
   t.Errorf("Real part mismatch. Got %v, want %v", real(ans), real(test.ans))
  }
  if math.Abs(imag(ans)-imag(test.ans)) > 1e-10 {
   t.Errorf("Imaginary part mismatch. Got %v, want %v", imag(ans), imag(test.ans))
  }
 }
}
graph{SubGrapa}
graph{{diGrap}diGr{diGrap}diGr{diGrap}diGra{diGrap}diGr{diGrap}}
graph{DigraG{{DigraG{DigraD}DigraG{}DigraG{DigraG}DigraG{DigraG}DigraG{DigraG}}}}
graph{DIGRA0{DIGRA0}}
graph{N{N}{N}}
// Copyright 2014 The Gonum Authors. All rights reserved.
// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

package testblas

import (
 "testing"

 "gonum.org/v1/gonum/blas"
)

type Dtxmver interface {
 Dtrmv(ul blas.Uplo, tA blas.Transpose, d blas.Diag, n int, a []float64, lda int, x []float64, incX int)
 Dtbmv(ul blas.Uplo, tA blas.Transpose, d blas.Diag, n, k int, a []float64, lda int, x []float64, incX int)
 Dtpmv(ul blas.Uplo, tA blas.Transpose, d blas.Diag, n int, a []float64, x []float64, incX int)
}

type vec struct {
 data []float64
```

```
 inc  int
}

var cases = []struct {
 n, k       int
 ul         blas.Uplo
 d          blas.Diag
 ldab       int
 tr, tb, tp []float64
 ins        []vec
 solNoTrans []float64
 solTrans   []float64
}{
 {
  n:    3,
  k:    1,
  ul:   blas.Upper,
  d:    blas.NonUnit,
  tr:   []float64{1, 2, 0, 0, 3, 4, 0, 0, 5},
  tb:   []float64{1, 2, 3, 4, 5, 0},
  ldab: 2,
  tp:   []float64{1, 2, 0, 3, 4, 5},
  ins:
 []vec{
   {[]float64{2, 3, 4}, 1},
   {[]float64{2, 1, 3, 1, 4}, 2},
   {[]float64{4, 1, 3, 1, 2}, -2},
  },
  solNoTrans: []float64{8, 25, 20},
  solTrans:   []float64{2, 13, 32},
 },
 {
  n:    3,
  k:    1,
  ul:   blas.Upper,
  d:    blas.Unit,
  tr:   []float64{1, 2, 0, 0, 3, 4, 0, 0, 5},
  tb:   []float64{1, 2, 3, 4, 5, 0},
  ldab: 2,
  tp:   []float64{1, 2, 0, 3, 4, 5},
  ins: []vec{
   {[]float64{2, 3, 4}, 1},
   {[]float64{2, 1, 3, 1, 4}, 2},
   {[]float64{4, 1, 3, 1, 2}, -2},
  },
  solNoTrans: []float64{8, 19, 4},
  solTrans:   []float64{2, 7, 16},
 },
```

```
 {
  n:    3,
  k:    1,
  ul:   blas.Lower,
  d:    blas.NonUnit,
  tr:   []float64{1, 0, 0, 2, 3, 0, 0, 4, 5},
  tb:   []float64{0, 1, 2, 3, 4, 5},
  ldab: 2,
  tp:   []float64{1, 2, 3, 0, 4, 5},
  ins: []vec{
   {[]float64{2, 3, 4}, 1},
   {[]float64{2, 1, 3, 1, 4}, 2},
   {[]float64{4, 1, 3, 1, 2}, -2},
  },
  solNoTrans: []float64{2, 13, 32},
  solTrans:   []float64{8, 25, 20},
 },
 {
  n:    3,
  k:    1,
  ul:   blas.Lower,
  d:
    blas.Unit,
  tr:   []float64{1, 0, 0, 2, 3, 0, 0, 4, 5},
  tb:   []float64{0, 1, 2, 3, 4, 5},
  ldab: 2,
  tp:   []float64{1, 2, 3, 0, 4, 5},
  ins: []vec{
   {[]float64{2, 3, 4}, 1},
   {[]float64{2, 1, 3, 1, 4}, 2},
   {[]float64{4, 1, 3, 1, 2}, -2},
  },
  solNoTrans: []float64{2, 7, 16},
  solTrans:   []float64{8, 19, 4},
 },
}

func DtxmvTest(t *testing.T, blasser Dtxmver) {

 for nc, c := range cases {
  for nx, x := range c.ins {
   in := make([]float64, len(x.data))
   copy(in, x.data)
   blasser.Dtrmv(c.ul, blas.NoTrans, c.d, c.n, c.tr, c.n, in, x.inc)
   if !dStridedSliceTolEqual(c.n, in, x.inc, c.solNoTrans, 1) {
    t.Error("Wrong Dtrmv result for: NoTrans  in Case:", nc, "input:", nx)
   }
```

```
  in = make([]float64, len(x.data))
  copy(in, x.data)
  blasser.Dtrmv(c.ul, blas.Trans, c.d, c.n, c.tr, c.n, in, x.inc)
  if !dStridedSliceTolEqual(c.n, in, x.inc, c.solTrans, 1) {
   t.Error("Wrong Dtrmv result for: Trans in Case:", nc, "input:", nx)
  }
  in
 = make([]float64, len(x.data))
  copy(in, x.data)
  blasser.Dtbmv(c.ul, blas.NoTrans, c.d, c.n, c.k, c.tb, c.ldab, in, x.inc)
  if !dStridedSliceTolEqual(c.n, in, x.inc, c.solNoTrans, 1) {
   t.Error("Wrong Dtbmv result for: NoTrans  in Case:", nc, "input:", nx)
  }

  in = make([]float64, len(x.data))
  copy(in, x.data)
  blasser.Dtbmv(c.ul, blas.Trans, c.d, c.n, c.k, c.tb, c.ldab, in, x.inc)
  if !dStridedSliceTolEqual(c.n, in, x.inc, c.solTrans, 1) {
   t.Error("Wrong Dtbmv result for: Trans in Case:", nc, "input:", nx)
  }
  in = make([]float64, len(x.data))
  copy(in, x.data)
  blasser.Dtpmv(c.ul, blas.NoTrans, c.d, c.n, c.tp, in, x.inc)
  if !dStridedSliceTolEqual(c.n, in, x.inc, c.solNoTrans, 1) {
   t.Error("Wrong Dtpmv result for:  NoTrans  in Case:", nc, "input:", nx)
  }

  in = make([]float64, len(x.data))
  copy(in, x.data)
  blasser.Dtpmv(c.ul, blas.Trans, c.d, c.n, c.tp, in, x.inc)
  if !dStridedSliceTolEqual(c.n, in, x.inc, c.solTrans, 1) {
   t.Error("Wrong
 Dtpmv result for: Trans in Case:", nc, "input:", nx)
  }
 }
 }
}
graph{{digraS}}
graph{Strr-9Strr-9Strr}
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// license that can be found in the LICENSE file.

package optimize

import (
 "fmt"
 "math"
```

```
 "reflect"
 "testing"

 "gonum.org/v1/gonum/optimize/functions"
)

func TestMoreThuente(t *testing.T) {
 d := 0.001
 c := 0.001
 ls := &MoreThuente{
  DecreaseFactor:  d,
  CurvatureFactor: c,
 }
 testLinesearcher(t, ls, d, c, true)
}

func TestBisection(t *testing.T) {
 c := 0.1
 ls := &Bisection{
  CurvatureFactor: c,
 }
 testLinesearcher(t, ls, 0, c, true)
}

func TestBacktracking(t *testing.T) {
 d := 0.001
 ls := &Backtracking{
  DecreaseFactor: d,
 }
 testLinesearcher(t, ls, d, 0, false)
}

type funcGrader interface {
 Func([]float64) float64
 Grad([]float64, []float64)
}

type linesearcherTest struct {
 name string
 f    func(float64) float64
 g    func(float64) float64
}

func newLinesearcherTest(name string, fg funcGrader) linesearcherTest {
 grad := make([]float64, 1)
 return
 linesearcherTest{
  name: name,
```

```
  f: func(x float64) float64 {
   return fg.Func([]float64{x})
  },
  g: func(x float64) float64 {
   fg.Grad(grad, []float64{x})
   return grad[0]
  },
 }
}

func testLinesearcher(t *testing.T, ls Linesearcher, decrease, curvature float64, strongWolfe bool) {
 for i, prob := range []linesearcherTest{
  newLinesearcherTest("Concave-to-the-right function", functions.ConcaveRight{}),
  newLinesearcherTest("Concave-to-the-left function", functions.ConcaveLeft{}),
  newLinesearcherTest("Plassmann wiggly function (l=39, beta=0.01)", functions.Plassmann{L: 39, Beta: 0.01}),
  newLinesearcherTest("Yanai-Ozawa-Kaneko function (beta1=0.001, beta2=0.001)",
functions.YanaiOzawaKaneko{Beta1: 0.001, Beta2: 0.001}),
  newLinesearcherTest("Yanai-Ozawa-Kaneko function (beta1=0.01, beta2=0.001)",
functions.YanaiOzawaKaneko{Beta1: 0.01, Beta2: 0.001}),
  newLinesearcherTest("Yanai-Ozawa-Kaneko function (beta1=0.001, beta2=0.01)",
functions.YanaiOzawaKaneko{Beta1: 0.001,
 Beta2: 0.01}),
 } {
  for _, initStep := range []float64{0.001, 0.1, 1, 10, 1000} {
   prefix := fmt.Sprintf("test %d (%v started from %v)", i, prob.name, initStep)

   f0 := prob.f(0)
   g0 := prob.g(0)
   if g0 >= 0 {
    panic("bad test function")
   }

   op := ls.Init(f0, g0, initStep)
   if !op.isEvaluation() {
    t.Errorf("%v: Linesearcher.Init returned non-evaluating operation %v", prefix, op)
    continue
   }

   var (
    err  error
    k    int
    f, g float64
    step float64
   )
  loop:
   for {
    switch op {
    case MajorIteration:
```

```
    if f > f0+step*decrease*g0 {
     t.Errorf("%v: %v found step %v that does not satisfy the sufficient decrease condition",
      prefix, reflect.TypeOf(ls), step)
    }
    if strongWolfe && math.Abs(g) > curvature*(-g0) {
     t.Errorf("%v: %v found step %v that does not satisfy the curvature condition",
      prefix, reflect.TypeOf(ls), step)
    }
    break loop
   case FuncEvaluation:
    f = prob.f(step)
   case GradEvaluation:
    g
 = prob.g(step)
   case FuncEvaluation | GradEvaluation:
    f = prob.f(step)
    g = prob.g(step)
   default:
    t.Errorf("%v: Linesearcher returned an invalid operation %v", prefix, op)
    break loop
   }

   k++
   if k == 1000 {
    t.Errorf("%v: %v did not finish", prefix, reflect.TypeOf(ls))
    break
   }

   op, step, err = ls.Iterate(f, g)
   if err != nil {
    t.Errorf("%v: %v failed at step %v with %v", prefix, reflect.TypeOf(ls), step, err)
    break
   }
  }
 }
}
Graph{Graph[]{Graph[]Graph[]}Graph[]}
digraph {r[l=" "]a:a->b:t a:1->d:2->y:""c:""->d:d->x:""c:""->y:""b:t->z:""}
graph{{Digra{{Digra{}Digra}}Digra}}
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//go:generate go run generate_defined_types.go
//go:generate go run generate_constants.go defined_types.go

// Package constant provides fundamental constants satisfying unit.Uniter.
```

```
//
// Constant values reflect the values published at https://physics.nist.gov/cuu/index.html
// and are subject to change when the published values are updated.
package constant
graph{SubGraph}
graph{"\\""\\""\\"}
digraph{nodo->nodk}
graph{{{{DIGRAPc{{DIGRAPy}{DIGRAPy}{{DIGRAPy}{DIGRAPy}}}DIGRAPy}}}}
graph{{{noe not}noe not}}
graph{{Edg2{{{Edg2}}Edg2}}Edg2{{{Edg2{{{Edg2}}Edg2}}{Edg2}}Edg2}}
digraph{w{w:sw->w:sw->w:sw}w:sw->w:sw}
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// license that can be found in the LICENSE file.

// Package dualquat provides the dual quaternion numeric type and functions.
//
// Dual quaternions provide a system for rigid transformation with interpolation
// and blending in . See https://www.cs.utah.edu/~ladislav/kavan06dual/kavan06dual.pdf and
// https://en.wikipedia.org/wiki/Dual_quaternion for more details.
package dualquat // imports "gonum.org/v1/gonum/num/dualquat"

// TODO(kortschak): Handle special cases properly.
//  - Pow
graph{GRAPp{GRAPp{GRAPe}{GRAPp{GRAPe}{GRAPp}}}}
Graph{Gra{Gra}}
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package gonum

import (
 "math"

 "gonum.org/v1/gonum/lapack"
)

// Dlange returns the value of the specified norm of a general mn matrix A:
//  lapack.MaxAbs:       the maximum absolute value of any element.
//  lapack.MaxColumnSum: the maximum column sum of the absolute values of the elements (1-norm).
//  lapack.MaxRowSum:    the maximum row sum of the absolute values of the elements (infinity-norm).
//  lapack.Frobenius:    the square root of the sum of the squares of the elements (Frobenius norm).
// If norm == lapack.MaxColumnSum, work must be of length n, and this function will
// panic otherwise. There are no restrictions on work for the other matrix norms.
func (impl Implementation) Dlange(norm lapack.MatrixNorm, m, n int, a []float64, lda int, work []float64) float64 {
 // TODO(btracey): These should probably be refactored
```

```
to use BLAS calls.
switch {
case norm != lapack.MaxRowSum && norm != lapack.MaxColumnSum && norm != lapack.Frobenius && norm
!= lapack.MaxAbs:
 panic(badNorm)
case m < 0:
 panic(mLT0)
case n < 0:
 panic(nLT0)
case lda < max(1, n):
 panic(badLdA)
}

// Quick return if possible.
if m == 0 || n == 0 {
 return 0
}

switch {
case len(a) < (m-1)*lda+n:
 panic(badLdA)
case norm == lapack.MaxColumnSum && len(work) < n:
 panic(shortWork)
}

switch norm {
case lapack.MaxAbs:
 var value float64
 for i := 0; i < m; i++ {
  for j := 0; j < n; j++ {
   value = math.Max(value, math.Abs(a[i*lda+j]))
  }
 }
 return value
case lapack.MaxColumnSum:
 for i := 0; i < n; i++ {
  work[i] = 0
 }
 for i := 0; i < m; i++ {
  for j := 0; j < n; j++ {
   work[j] += math.Abs(a[i*lda+j])
  }
 }
 var value float64
 for i := 0; i < n; i++ {
  value = math.Max(value, work[i])
 }
 return value
```

```
 case lapack.MaxRowSum:
  var value float64
  for i := 0; i < m; i++ {
   var
 sum float64
   for j := 0; j < n; j++ {
    sum += math.Abs(a[i*lda+j])
   }
   value = math.Max(value, sum)
  }
  return value
 default:
  // lapack.Frobenius
  scale := 0.0
  sum := 1.0
  for i := 0; i < m; i++ {
   rowscale, rowsum := impl.Dlassq(n, a[i*lda:], 1, 0, 1)
   scale, sum = impl.Dcombssq(scale, sum, rowscale, rowsum)
  }
  return scale * math.Sqrt(sum)
 }
}
// Code generated by "go generate gonum.org/v1/gonum/unit/constant; DO NOT EDIT.

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// +build ignore

package main

import "gonum.org/v1/gonum/unit"

var definedTypes = []struct {
 unit unit.Uniter
 name string
}{
 {unit: unit.AbsorbedRadioactiveDose(1), name: "unit.AbsorbedRadioactiveDose"},
 {unit: unit.Acceleration(1), name: "unit.Acceleration"},
 {unit: unit.Angle(1), name: "unit.Angle"},
 {unit: unit.Area(1), name: "unit.Area"},
 {unit: unit.Capacitance(1), name: "unit.Capacitance"},
 {unit: unit.Charge(1), name: "unit.Charge"},
 {unit: unit.Conductance(1), name: "unit.Conductance"},
 {unit: unit.Current(1), name: "unit.Current"},
 {unit: unit.Dimless(1), name: "unit.Dimless"},
 {unit: unit.Energy(1), name: "unit.Energy"},
```

```
 {unit: unit.EquivalentRadioactiveDose(1), name: "unit.EquivalentRadioactiveDose"},
 {unit: unit.Force(1),
 name: "unit.Force"},
 {unit: unit.Frequency(1), name: "unit.Frequency"},
 {unit: unit.Inductance(1), name: "unit.Inductance"},
 {unit: unit.Length(1), name: "unit.Length"},
 {unit: unit.LuminousIntensity(1), name: "unit.LuminousIntensity"},
 {unit: unit.MagneticFlux(1), name: "unit.MagneticFlux"},
 {unit: unit.MagneticFluxDensity(1), name: "unit.MagneticFluxDensity"},
 {unit: unit.Mass(1), name: "unit.Mass"},
 {unit: unit.Mole(1), name: "unit.Mole"},
 {unit: unit.Power(1), name: "unit.Power"},
 {unit: unit.Pressure(1), name: "unit.Pressure"},
 {unit: unit.Radioactivity(1), name: "unit.Radioactivity"},
 {unit: unit.Resistance(1), name: "unit.Resistance"},
 {unit: unit.Temperature(1), name: "unit.Temperature"},
 {unit: unit.Time(1), name: "unit.Time"},
 {unit: unit.Torque(1), name: "unit.Torque"},
 {unit: unit.Velocity(1), name: "unit.Velocity"},
 {unit: unit.Voltage(1), name: "unit.Voltage"},
 {unit: unit.Volume(1), name: "unit.Volume"},
}

func definedEquivalentOf(q unit.Uniter) string
 {
 for _, u := range definedTypes {
  if unit.DimensionsMatch(q, u.unit) {
   return u.name
  }
 }
 return ""
}
graph{SUBGR_}
graph{"\s\s\s\s\s\s\\\\\\\\\\"}
graph{__{____}_}
Graph{{subgrapA}}
graph{{{subG1}subG1{{{{subG1}subG1{subG1}}}}}}
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package testlapack

import (
 "math"
 "testing"

 "golang.org/x/exp/rand"
```

```
 "gonum.org/v1/gonum/blas/blas64"
 "gonum.org/v1/gonum/lapack"
)

type Dlanger interface {
 Dlange(norm lapack.MatrixNorm, m, n int, a []float64, lda int, work []float64) float64
}

func DlangeTest(t *testing.T, impl Dlanger) {
 rnd := rand.New(rand.NewSource(1))
 for _, test := range []struct {
  m, n, lda int
 }{
  {4, 3, 0},
  {3, 4, 0},
  {4, 3, 100},
  {3, 4, 100},
 } {
  m := test.m
  n := test.n
  lda := test.lda
  if lda == 0 {
   lda = n
  }
  // Allocate mn matrix A and fill it with random numbers from [-0.5, 0.5).
  a := make([]float64, m*lda)
  for i := range a {
   a[i] = rnd.Float64() - 0.5
  }
  // Store a copy of A for later comparison.
  aCopy := make([]float64, len(a))
  copy(aCopy, a)

  // Allocate workspace slice.
  work := make([]float64,
 n)
  for i := range work {
   work[i] = rnd.Float64()
  }

  // Test various norms by comparing the result from Dlange with
  // explicit calculation.

  // Test MaxAbs norm.
  norm := impl.Dlange(lapack.MaxAbs, m, n, a, lda, work)
  var ans float64
  for i := 0; i < m; i++ {
```

```
  idx := blas64.Iamax(blas64.Vector{N: n, Inc: 1, Data: aCopy[i*lda:]})
  ans = math.Max(ans, math.Abs(a[i*lda+idx]))
 }
 // Should be strictly equal because there is no floating point summation error.
 if ans != norm {
  t.Errorf("MaxAbs mismatch. Want %v, got %v.", ans, norm)
 }

 // Test MaxColumnSum norm.
 norm = impl.Dlange(lapack.MaxColumnSum, m, n, a, lda, work)
 ans = 0
 for i := 0; i < n; i++ {
  sum := blas64.Asum(blas64.Vector{N: m, Inc: lda, Data: aCopy[i:]})
  ans = math.Max(ans, sum)
 }
 if math.Abs(norm-ans) > 1e-14 {
  t.Errorf("MaxColumnSum mismatch. Want %v, got %v.", ans, norm)
 }

 // Test MaxRowSum norm.
 norm = impl.Dlange(lapack.MaxRowSum, m, n, a, lda, work)
 ans
= 0
 for i := 0; i < m; i++ {
  sum := blas64.Asum(blas64.Vector{N: n, Inc: 1, Data: aCopy[i*lda:]})
  ans = math.Max(ans, sum)
 }
 if math.Abs(norm-ans) > 1e-14 {
  t.Errorf("MaxRowSum mismatch. Want %v, got %v.", ans, norm)
 }

 // Test Frobenius norm.
 norm = impl.Dlange(lapack.Frobenius, m, n, a, lda, work)
 ans = 0
 for i := 0; i < m; i++ {
  sum := blas64.Nrm2(blas64.Vector{N: n, Inc: 1, Data: aCopy[i*lda:]})
  ans += sum * sum
 }
 ans = math.Sqrt(ans)
 if math.Abs(norm-ans) > 1e-14 {
  t.Errorf("Frobenius norm mismatch. Want %v, got %v.", ans, norm)
 }
}
}
graph{{{subgz{{subgu{subgu}}}}}}
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// license that can be found in the LICENSE file.
```

```
package testblas

import (
 "fmt"
 "testing"
)

type Zdotuer interface {
 Zdotu(n int, x []complex128, incX int, y []complex128, incY int) complex128
}

func ZdotuTest(t *testing.T, impl Zdotuer) {
 for tc, test := range []struct {
  x, y []complex128

  want    complex128 // Result when both increments have the same sign.
  wantRev complex128 // Result when the increments have opposite sign.
 }{
  {
   x:       nil,
   y:       nil,
   want:    0,
   wantRev: 0,
  },
  {
   x:       []complex128{1 + 2i},
   y:       []complex128{30 + 31i},
   want:    -32 + 91i,
   wantRev: -32 + 91i,
  },
  {
   x:       []complex128{1 + 2i, 3 + 4i},
   y:       []complex128{30 + 31i, 33 + 34i},
   want:    -69 + 325i,
   wantRev: -69 + 313i,
  },
  {
   x:       []complex128{1 + 2i, 3 + 4i, 5 + 6i},
   y:       []complex128{30 + 31i, 33 + 34i,
 36 + 37i},
   want:    -111 + 726i,
   wantRev: -111 + 678i,
  },
  {
   x:       []complex128{1 + 2i, 3 + 4i, 5 + 6i, 7 + 8i},
   y:       []complex128{30 + 31i, 33 + 34i, 36 + 37i, 39 + 40i},
   want:    -158 + 1318i,
```

```
  wantRev: -158 + 1198i,
 },
 {
  x:       []complex128{1 + 2i, 3 + 4i, 5 + 6i, 7 + 8i, 9 + 10i},
  y:       []complex128{30 + 31i, 33 + 34i, 36 + 37i, 39 + 40i, 42 + 43i},
  want:    -210 + 2125i,
  wantRev: -210 + 1885i,
 },
 {
  x:       []complex128{1 + 2i, 3 + 4i, 5 + 6i, 7 + 8i, 9 + 10i, 11 + 12i},
  y:       []complex128{30 + 31i, 33 + 34i, 36 + 37i, 39 + 40i, 42 + 43i, 45 + 46i},
  want:    -267 + 3171i,
  wantRev: -267 + 2751i,
 },
 {
  x:       []complex128{1 + 2i, 3 + 4i, 5 + 6i, 7 + 8i, 9 + 10i, 11 + 12i, 13 + 14i},
  y:       []complex128{30 + 31i, 33 + 34i, 36 + 37i, 39 + 40i, 42 + 43i, 45 + 46i, 48 + 49i},
  want:    -329 + 4480i,
  wantRev: -329 + 3808i,
 },
 {
  x:       []complex128{1 + 2i, 3 + 4i, 5 + 6i, 7 + 8i, 9 + 10i, 11
+ 12i, 13 + 14i, 15 + 16i},
  y:       []complex128{30 + 31i, 33 + 34i, 36 + 37i, 39 + 40i, 42 + 43i, 45 + 46i, 48 + 49i, 51 + 52i},
  want:    -396 + 6076i,
  wantRev: -396 + 5068i,
 },
 {
  x:       []complex128{1 + 2i, 3 + 4i, 5 + 6i, 7 + 8i, 9 + 10i, 11 + 12i, 13 + 14i, 15 + 16i, 17 + 18i},
  y:       []complex128{30 + 31i, 33 + 34i, 36 + 37i, 39 + 40i, 42 + 43i, 45 + 46i, 48 + 49i, 51 + 52i, 54 + 55i},
  want:    -468 + 7983i,
  wantRev: -468 + 6543i,
 },
 {
  x:       []complex128{1 + 2i, 3 + 4i, 5 + 6i, 7 + 8i, 9 + 10i, 11 + 12i, 13 + 14i, 15 + 16i, 17 + 18i, 19 + 20i},
  y:       []complex128{30 + 31i, 33 + 34i, 36 + 37i, 39 + 40i, 42 + 43i, 45 + 46i, 48 + 49i, 51 + 52i, 54 + 55i, 57 +
58i},
  want:    -545 + 10225i,
  wantRev: -545 + 8245i,
 },
 {
  x:       []complex128{1 + 2i, 3 + 4i, 5 + 6i, 7 + 8i, 9 + 10i, 11 + 12i, 13 + 14i, 15 + 16i, 17 + 18i, 19 + 20i, 21 + 22i},
  y:       []complex128{30 + 31i, 33 + 34i, 36 + 37i, 39 + 40i, 42 + 43i, 45 + 46i, 48 +
49i, 51 + 52i, 54 + 55i, 57 + 58i, 60 + 61i},
  want:    -627 + 12826i,
  wantRev: -627 + 10186i,
 },
 {
```

```
   x:       []complex128{1 + 2i, 3 + 4i, 5 + 6i, 7 + 8i, 9 + 10i, 11 + 12i, 13 + 14i, 15 + 16i, 17 + 18i, 19 + 20i, 21 + 22i,
23 + 24i},
   y:       []complex128{30 + 31i, 33 + 34i, 36 + 37i, 39 + 40i, 42 + 43i, 45 + 46i, 48 + 49i, 51 + 52i, 54 + 55i, 57 + 58i,
60 + 61i, 63 + 64i},
   want:    -714 + 15810i,
   wantRev: -714 + 12378i,
  },
 } {
  n := len(test.x)
  if len(test.y) != n {
   panic("bad test")
  }
  for _, inc := range allPairs([]int{-7, -3, 1, 13}, []int{-11, -5, 1, 17}) {
   incX := inc[0]
   incY := inc[1]

   x := makeZVector(test.x, incX)
   xCopy := make([]complex128, len(x))
   copy(xCopy, x)

   y := makeZVector(test.y, incY)
   yCopy := make([]complex128, len(y))
   copy(yCopy, y)

   want := test.want
   if incX*incY < 0 {
    want = test.wantRev
   }

   got := impl.Zdotu(n, x, incX, y, incY)

   prefix := fmt.Sprintf("Case %v (incX=%v,incY=%v):", tc, incX,
 incY)

   if !zsame(x, xCopy) {
    t.Errorf("%v: unexpected modification of x", prefix)
   }
   if !zsame(y, yCopy) {
    t.Errorf("%v: unexpected modification of y", prefix)
   }

   if got != want {
    t.Errorf("%v: unexpected result. want %v, got %v", prefix, want, got)
   }
  }
 }
}
```

```
graph{stric9{stric4}stric9{stric4}{stric9{stric4}{stric4}stric9{stric4}}}
graph{diGs{{diGs{diGt}}Gt}}
graph{{dir}}
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// Package testblas provides tests for blas implementations.
package testblas // import "gonum.org/v1/gonum/blas/testblas"
graph{{sub1{}sub8}}
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package gonum

import (
 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/lapack"
)

// Dorgql generates the mn matrix Q with orthonormal columns defined as the
// last n columns of a product of k elementary reflectors of order m
//  Q = H_{k-1} * ... * H_1 * H_0.
//
// It must hold that
//  0 <= k <= n <= m,
// and Dorgql will panic otherwise.
//
// On entry, the (n-k+i)-th column of A must contain the vector which defines
// the elementary reflector H_i, for i=0,...,k-1, and tau[i] must contain its
// scalar factor. On return, a contains the mn matrix Q.
//
// tau must have length at least k, and Dorgql will panic otherwise.
//
// work must have length at least max(1,lwork), and lwork must be at least
// max(1,n), otherwise Dorgql will panic. For optimum performance lwork must
// be a sufficiently large multiple of n.
//
// If
 lwork == -1, instead of computing Dorgql the optimal work length is stored
// into work[0].
//
// Dorgql is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dorgql(m, n, k int, a []float64, lda int, tau, work []float64, lwork int) {
 switch {
 case m < 0:
  panic(mLT0)
```

```
case n < 0:
 panic(nLT0)
case n > m:
 panic(nGTM)
case k < 0:
 panic(kLT0)
case k > n:
 panic(kGTN)
case lda < max(1, n):
 panic(badLdA)
case lwork < max(1, n) && lwork != -1:
 panic(badLWork)
case len(work) < max(1, lwork):
 panic(shortWork)
}

// Quick return if possible.
if n == 0 {
 work[0] = 1
 return
}

nb := impl.Ilaenv(1, "DORGQL", " ", m, n, k, -1)
if lwork == -1 {
 work[0] = float64(n * nb)
 return
}

switch {
case len(a) < (m-1)*lda+n:
 panic(shortA)
case len(tau) < k:
 panic(shortTau)
}

nbmin := 2
var nx, ldwork int
iws := n
if 1 < nb && nb < k {
 // Determine when to cross over from blocked to unblocked code.
 nx = max(0, impl.Ilaenv(3,
"DORGQL", " ", m, n, k, -1))
 if nx < k {
  // Determine if workspace is large enough for blocked code.
  iws = n * nb
  if lwork < iws {
   // Not enough workspace to use optimal nb: reduce nb and determine
   // the minimum value of nb.
```

```
   nb = lwork / n
   nbmin = max(2, impl.Ilaenv(2, "DORGQL", " ", m, n, k, -1))
  }
  ldwork = nb
 }
}

var kk int
if nbmin <= nb && nb < k && nx < k {
 // Use blocked code after the first block. The last kk columns are handled
 // by the block method.
 kk = min(k, ((k-nx+nb-1)/nb)*nb)

 // Set A(m-kk:m, 0:n-kk) to zero.
 for i := m - kk; i < m; i++ {
  for j := 0; j < n-kk; j++ {
   a[i*lda+j] = 0
  }
 }
}

// Use unblocked code for the first or only block.
impl.Dorg2l(m-kk, n-kk, k-kk, a, lda, tau, work)
if kk > 0 {
 // Use blocked code.
 for i := k - kk; i < k; i += nb {
  ib := min(nb, k-i)
  if n-k+i > 0 {
   // Form the triangular factor of the block reflector
   // H = H_{i+ib-1} * ... * H_{i+1} * H_i.
   impl.Dlarft(lapack.Backward,
lapack.ColumnWise, m-k+i+ib, ib,
    a[n-k+i:], lda, tau[i:], work, ldwork)

   // Apply H to A[0:m-k+i+ib, 0:n-k+i] from the left.
   impl.Dlarfb(blas.Left, blas.NoTrans, lapack.Backward, lapack.ColumnWise,
    m-k+i+ib, n-k+i, ib, a[n-k+i:], lda, work, ldwork,
    a, lda, work[ib*ldwork:], ldwork)
  }

  // Apply H to rows 0:m-k+i+ib of current block.
  impl.Dorg2l(m-k+i+ib, ib, ib, a[n-k+i:], lda, tau[i:], work)

  // Set rows m-k+i+ib:m of current block to zero.
  for j := n - k + i; j < n-k+i+ib; j++ {
   for l := m - k + i + ib; l < m; l++ {
    a[l*lda+j] = 0
   }
```

```
   }
  }
 }
 work[0] = float64(iws)
}
graph{{SUBGRA{S{{SUBGRA{SUBGRA}}}}}}
graph{<===>}
graph{Subgra{Subgra}Subgra}
Graph{{subgra_}{subgra_}}
graph{{SUBGRAPR{{SUBGRAPR}{SUBGRAPR}}SUBGRAPR}}
graph{{{digr}digr}}
graph{{{stricu}stricu}{stricu}}
graph{DiG{DiG{DiG}}}
graph{{{GRA9}}GRA9}
//**
source: https://github.com/Workiva/frugal/blob/master/LICENSE
**//
{{Types "Apache-2.0"}}
```

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```
graph{"\\""\\"}
graph{DIGRAP3{DIGRAP3}{DIGRAP3}{DIGRAP3}}
graph{{{grax{grar}grar{{{grax{grar}grar}}}}}}
graph{{DiGrap8}}
Graph{subgra4{{subgra4{subgra4{{subgra4{subgra4}}}}}}}
graph{{{{{Subgrap_}}}}}
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package gonum

import (
 "strconv"
 "testing"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/testblas"
)

func BenchmarkDtrmv(b *testing.B) {
 for _, n := range []int{testblas.MediumMat, testblas.LargeMat} {
  for _, incX := range []int{1, 5} {
   for _, uplo := range []blas.Uplo{blas.Upper, blas.Lower} {
    for _, trans := range []blas.Transpose{blas.NoTrans, blas.Trans} {
     for _, unit := range []blas.Diag{blas.NonUnit, blas.Unit} {
      var str string
      if n == testblas.MediumMat {
       str += "Med"
      } else if n == testblas.LargeMat {
       str += "Large"
      }
      str += "_Inc" + strconv.Itoa(incX)
      if uplo == blas.Upper {
       str += "_UP"
      } else {
       str += "_LO"
      }
      if trans == blas.NoTrans {
       str += "_NT"
      } else {
       str += "_TR"
      }
      if unit
 == blas.NonUnit {
       str += "_NU"
      } else {
       str += "_UN"
```

```
      }
      lda := n
      b.Run(str, func(b *testing.B) {
       testblas.DtrmvBenchmark(b, Implementation{}, n, lda, incX, uplo, trans, unit)
      })
     }
    }
   }
  }
 }
}
graph{{{{EDv{{{EDv}}}EDv}{EDv{{{EDv}}}}}}}
graph{{{Strictc}{Strictc}Strictc{Strictc}}}
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package mat_test

import (
 "fmt"
 "log"
 "math"

 "gonum.org/v1/gonum/mat"
)

func ExampleGSVD() {
 // Perform a GSVD factorization on food production/consumption data for the
 // three years 1990, 2000 and 2014, for Africa and Latin America/Caribbean.
 //
 // See Lee et al. doi:10.1371/journal.pone.0030098 and
 // Alter at al. doi:10.1073/pnas.0530258100 for more details.
 var gsvd mat.GSVD
 ok := gsvd.Factorize(FAO.Africa, FAO.LatinAmericaCaribbean, mat.GSVDU|mat.GSVDV|mat.GSVDQ)
 if !ok {
  log.Fatal("GSVD factorization failed")
 }
 var u, v mat.Dense
 gsvd.UTo(&u)
 gsvd.VTo(&v)

 s1 := gsvd.ValuesA(nil)
 s2 := gsvd.ValuesB(nil)

 fmt.Printf("Africa\n\ts1 = %.4f\n\n\tU = %.4f\n\n",
  s1, mat.Formatted(&u, mat.Prefix("\t    "), mat.Excerpt(2)))
 fmt.Printf("Latin America/Caribbean\n\ts2 = %.4f\n\n\tV = %.4f\n",
```

```
 s2, mat.Formatted(&v,
mat.Prefix("\t    "), mat.Excerpt(2)))

var q, zR mat.Dense
gsvd.QTo(&q)
gsvd.ZeroRTo(&zR)
q.Mul(&zR, &q)
fmt.Printf("\nCommon basis vectors\n\n\tQ = %.4f\n",
 mat.Formatted(q.T(), mat.Prefix("\t     ")))

// Calculate the antisymmetric angular distances for each eigenvariable.
fmt.Println("\nSignificance:")
for i := 0; i < 3; i++ {
 fmt.Printf("\teigenvar_%d: %+.4f\n", i, math.Atan(s1[i]/s2[i])-math.Pi/4)
}

// Output:
//
// Africa
//  s1 = [1.0000 0.9344 0.5118]
//
//  U = Dims(21, 21)
//      -0.0005   0.0142  ...  ...  -0.0060  -0.0055
//      -0.0010   0.0019            0.0071   0.0075
//       .
//       .
//       .
//      -0.0007  -0.0024            0.9999  -0.0001
//      -0.0010  -0.0016  ...  ...  -0.0001   0.9999
//
// Latin America/Caribbean
//  s2 = [0.0047 0.3563 0.8591]
//
//  V = Dims(14, 14)
//       0.1362   0.0008  ...  ...   0.0700   0.2636
//       0.1830  -0.0040            0.2908   0.7834
//       .
//       .
//
       .
//      -0.2598  -0.0324            0.9339  -0.2170
//      -0.8386   0.1494  ...  ...  -0.1639   0.4121
//
// Common basis vectors
//
//  Q =  -8172.4084   -4524.2933    4813.9616
//        22581.8020   12397.1070  -16364.8933
//        -8910.8462  -10902.1488   15762.8719
```

```
 //
 // Significance:
 //  eigenvar_0: +0.7807
 //  eigenvar_1: +0.4211
 //  eigenvar_2: -0.2482
}
graph{{d{{{{d}}d}}d}}
graph{digz{{digu}}digz{{digz{{{digu}}}}digz}}
graph{SUBGRAP}
graph{SUBGRAP{{SUBGRAP{}SUBGRAP}}}
graph{{{g{g}g}{g}g}}
Graph{{gr4}}
digraph{{D:G:_->G:G:_}}
graph{Stric5{Stric5}}
Graph{{{subgrap{subgrap}subgrap}}subgrap}
digraph {graph[r=R l="l "c=p t=t][l=""]graph[p=""b=""]b{graph[l=0c=m p=""b=""][s=""h=""t=""][s=""h=""t=""]a->b[s="8    "]}b{graph[l=1p=""b=""][s=""h=""t=""][s=""h=""t=""]c->d[s="8    "]}}
graph{{STR}STR{STR}STR{}STR{STR}STR{ST}STR{STR}}
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// Package flow provides control flow analysis functions.
package flow // import "gonum.org/v1/gonum/graph/flow"
*******************************************
  Copyright (C) 2014 by Ignace Bogaert   *
*******************************************

This software package is based on the paper
  I. Bogaert, "Iteration-Free Computation of Gauss-Legendre Quadrature Nodes and Weights",
  to be published in the SIAM Journal of Scientific Computing.

The main features of this software are:
- Speed: due to the simple formulas and the O(1) complexity computation of individual Gauss-Legendre
 quadrature nodes and weights. This makes it compatible with parallel computing paradigms.
- Accuracy: the error on the nodes and weights is within a few ulps (see the paper for details).

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graph{stri_{{stri_}{stri_{{stri_}{stri_}}}{stri_}}}
graph{{{{GRAPHe}GRAPHe{GRAPHe}}}GRAPHe{GRAPHe}GRAPHe}
graph{Stric{Stric{Stric}Stric}}
graph{A[ne="\
"]}
graph{{{diGs}{diGs}{diGs{diGt}}{diGs{}}{diGs{}{}{}{diGt}{}}}}
//**
source: https://github.com/rocketlaunchr/dataframe-go/blob/master/LICENSE
**//
{{Types "MIT"}}

{{template "mit-grant"}}
{{template "mit-conditions"}}
{{template "mit-disclaimer"}}

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Graph{{{{subgr_}subgr_}subgr_}{subgr_{{{{subgr_}subgr_}subgr_}subgr_}}subgr_}

```
// Derived from SciPy's special/cephes/zeta.c
// https://github.com/scipy/scipy/blob/master/scipy/special/cephes/zeta.c
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package cephes

import "math"

// zetaCoegs are the expansion coefficients for Euler-Maclaurin summation
// formula:
//  \frac{(2k)!}{B_{2k}}
// where
//  B_{2k}
// are Bernoulli numbers.
var zetaCoefs = [...]float64{
 12.0,
 -720.0,
 30240.0,
 -1209600.0,
 47900160.0,
 -1.307674368e12 / 691,
 7.47242496e10,
 -1.067062284288e16 / 3617,
 5.109094217170944e18 / 43867,
 -8.028576626982912e20 / 174611,
 1.551121004333098598 4e23 / 854513,
 -1.69382413673174366945 28e27 / 236364091,
}

// Zeta computes the Riemann zeta function of two arguments.
//  Zeta(x,q) = \sum_{k=0}^{\infty} (k+q)^{-x}
//
 Note that Zeta returns +Inf if x is 1 and will panic if x is less than 1,
// q is either zero or a negative integer, or q is negative and x is not an
// integer.
//
// Note that:
//  zeta(x,1) = zetac(x) + 1
func Zeta(x, q float64) float64 {
```

```
// REFERENCE: Gradshteyn, I. S., and I. M. Ryzhik, Tables of Integrals, Series,
// and Products, p. 1073; Academic Press, 1980.
if x == 1 {
 return math.Inf(1)
}

if x < 1 {
 panic(badParamOutOfBounds)
}

if q <= 0 {
 if q == math.Floor(q) {
  panic(badParamFunctionSingularity)
 }
 if x != math.Floor(x) {
  panic(badParamOutOfBounds) // Because q^-x not defined
 }
}

// Asymptotic expansion: http://dlmf.nist.gov/25.11#E43
if q > 1e8 {
 return (1/(x-1) + 1/(2*q)) * math.Pow(q, 1-x)
}

// The Euler-Maclaurin summation formula is used to obtain the expansion:
//  Zeta(x,q) = \sum_{k=1}^n (k+q)^{-x} + \frac{(n+q)^{1-x}}{x-1} - \frac{1}{2(n+q)^x} + \sum_{j=1}^{\infty}
\frac{B_{2j}x(x+1)...(x+2j)}{(2j)! (n+q)^{x+2j+1}}
//
where
//  B_{2j}
// are Bernoulli numbers.
// Permit negative q but continue sum until n+q > 9. This case should be
// handled by a reflection formula. If q<0 and x is an integer, there is a
// relation to the polyGamma function.
s := math.Pow(q, -x)
a := q
i := 0
b := 0.0
for i < 9 || a <= 9 {
 i++
 a += 1.0
 b = math.Pow(a, -x)
 s += b
 if math.Abs(b/s) < machEp {
  return s
 }
}
```

```
 w := a
 s += b * w / (x - 1)
 s -= 0.5 * b
 a = 1.0
 k := 0.0
 for _, coef := range zetaCoefs {
  a *= x + k
  b /= w
  t := a * b / coef
  s = s + t
  t = math.Abs(t / s)
  if t < machEp {
   return s
  }
  k += 1.0
  a *= x + k
  b /= w
  k += 1.0
 }
 return s
}
graph{{{{{{{edg3}}}edg5}}}}}
Graph{{{{{subgr_}subgr_}subgr_}subgr_}}subgr_}
graph{8.}
digraph{B:w->D:s J:w->D:s J:w H:s H:w->D:s J:w H:s H:s J:w}
// SPDX-License-Identifier: Unlicense OR MIT

package headless

import (
 "image"
 "image/color"
 "testing"

 "gioui.org/f32"
 "gioui.org/op"
 "gioui.org/op/paint"
)

func TestHeadless(t *testing.T) {
 sz := image.Point{X: 800, Y: 600}
 w, err := NewWindow(sz.X, sz.Y)
 if err != nil {
  t.Skipf("headless windows not supported: %v", err)
 }

 col := color.RGBA{A: 0xff, R: 0xcc, G: 0xcc}
 var ops op.Ops
```

```
 paint.ColorOp{Color: col}.Add(&ops)
 // Paint only part of the screen to avoid the glClear optimization.
 paint.PaintOp{Rect: f32.Rectangle{Max: f32.Point{
  X: float32(sz.X) - 100,
  Y: float32(sz.Y) - 100,
 }}}.Add(&ops)
 w.Frame(&ops)

 img, err := w.Screenshot()
 if err != nil {
  t.Fatal(err)
 }
 if isz := img.Bounds().Size(); isz != sz {
  t.Errorf("got %v screenshot, expected %v", isz, sz)
 }
 if got := img.RGBAAt(0, 0); got != col {
  t.Errorf("got color %v, expected %v", got, col)
 }
}
Graph{GraphG{{GraphG{GraphG}}GraphG{GraphG}}GraphG}
graph{STs{STs{STe}{STs{STs{STe}ST{STs}STe}STe{STe}{STs{STs{STe}STe}STe}STe}}STe}
graph{--
[f=4][f=8][f=2][f=2][f=3][f=7][f=2][f=4][f=6][f=6][f=4][f=4][f=9][f=4][f=4][f=4][f=4][f=4][f=1][f=4][f=6][f=6][f=
4][f=1][f=6][f=1][f=2][f=7][f=1][f=1][f=1][f=1][f=8][f=1][f=3][f=5][f=1][f=1][f=1][f=9]}
graph{{NodeW{}NodeW{}NodeN}}
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package mathext

import (
 "math"
 "testing"
)

// TestCompleteKE checks if the Legendre's relation for m=0.0001(0.0001)0.9999
// is satisfied with accuracy 1e-14.
func TestCompleteKE(t *testing.T) {
 const tol = 1.0e-14

 for m := 1; m <= 9999; m++ {
  mf := float64(m) / 10000
  mp := 1 - mf
  K, Kp := CompleteK(mf), CompleteK(mp)
  E, Ep := CompleteE(mf), CompleteE(mp)
  legendre := math.Abs(E*Kp + Ep*K - K*Kp - math.Pi/2)
  if legendre > tol {
```

```
   t.Fatalf("legendre > tol: m=%v, legendre=%v, tol=%v", mf, legendre, tol)
  }
 }
}

// TestCompleteBD checks if the relations between two associate elliptic integrals B(m), D(m)
// and more common Legendre's elliptic integrals K(m), E(m) are satisfied with accuracy 1e-14
// for m=0.0001(0.0001)0.9999.
//
// K(m) and E(m) can be computed without cancellation problems as following:
// K(m)
 = B(m) + D(m),
// E(m) = B(m) + (1-m)D(m).
func TestCompleteBD(t *testing.T) {
 const tol = 1.0e-14

 for m := 1; m <= 9999; m++ {
  mf := float64(m) / 10000
  B, D := CompleteB(mf), CompleteD(mf)
  K, E := CompleteK(mf), CompleteE(mf)
  difference1 := math.Abs(K - (B + D))
  difference2 := math.Abs(E - (B + (1-mf)*D))
  if difference1 > tol {
   t.Fatalf("difference1 > tol: m=%v, difference1=%v, tol=%v", mf, difference1, tol)
  }
  if difference2 > tol {
   t.Fatalf("difference2 > tol: m=%v, difference2=%v, tol=%v", mf, difference2, tol)
  }
 }
}
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graph{{diGrag{diGrag}}diGrai{diGrag}diGrai}
graph{{SUBGRAPHc}{SUBGRAPHe}}
graph{{DiG}DiG}
graph{{edgeW}}
graph{{{{Digrap_}Digrap_}Digrap_{Digrap_}Digrap_}Digrap_}
graph{{{{{{{{{n}}n}}}}}}n}
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package mathext

import "math"

/*
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*/

// NormalQuantile computes the quantile function (inverse CDF) of the standard
// normal. NormalQuantile panics if the input p is less than 0 or greater than 1.
func NormalQuantile(p float64) float64 {
 switch {
 case p < 0 || 1 < p:
  panic("mathext: quantile out of bounds")
 case p == 1:
  return math.Inf(1)
 case p == 0:
  return
 math.Inf(-1)
 }
 // Compute rational approximation based on the value of p.

 dp := p - 0.5
 if math.Abs(dp) <= 0.425 {
  z := 0.180625 - dp*dp
  z1 := ((((((zQSA[0]*z+zQSA[1])*z+zQSA[2])*z+zQSA[3])*z+zQSA[4])*z+zQSA[5])*z+zQSA[6])*z + zQSA[7]
  z2 := ((((((zQSB[0]*z+zQSB[1])*z+zQSB[2])*z+zQSB[3])*z+zQSB[4])*z+zQSB[5])*z+zQSB[6])*z + zQSB[7]
  return dp * z1 / z2
 }

 if p < 0.5 {
  r := math.Sqrt(-math.Log(p))
  if r <= 5.0 {
   z := r - 1.6
   z1 := ((((((zQIA[0]*z+zQIA[1])*z+zQIA[2])*z+zQIA[3])*z+zQIA[4])*z+zQIA[5])*z+zQIA[6])*z + zQIA[7]
   z2 := ((((((zQIB[0]*z+zQIB[1])*z+zQIB[2])*z+zQIB[3])*z+zQIB[4])*z+zQIB[5])*z+zQIB[6])*z + zQIB[7]
   return -z1 / z2
  }
  z := r - 5
  z1 := ((((((zQTA[0]*z+zQTA[1])*z+zQTA[2])*z+zQTA[3])*z+zQTA[4])*z+zQTA[5])*z+zQTA[6])*z + zQTA[7]
  z2 := ((((((zQTB[0]*z+zQTB[1])*z+zQTB[2])*z+zQTB[3])*z+zQTB[4])*z+zQTB[5])*z+zQTB[6])*z + zQTB[7]
  return -z1 / z2
 }
 r := math.Sqrt(-math.Log(1 - p))
 if r <= 5.0 {
  z := r - 1.6
  z1 := ((((((zQIA[0]*z+zQIA[1])*z+zQIA[2])*z+zQIA[3])*z+zQIA[4])*z+zQIA[5])*z+zQIA[6])*z
 + zQIA[7]
  z2 := ((((((zQIB[0]*z+zQIB[1])*z+zQIB[2])*z+zQIB[3])*z+zQIB[4])*z+zQIB[5])*z+zQIB[6])*z + zQIB[7]
  return z1 / z2
 }
```

```
 z := r - 5
 z1 := ((((((zQTA[0]*z+zQTA[1])*z+zQTA[2])*z+zQTA[3])*z+zQTA[4])*z+zQTA[5])*z+zQTA[6])*z + zQTA[7]
 z2 := ((((((zQTB[0]*z+zQTB[1])*z+zQTB[2])*z+zQTB[3])*z+zQTB[4])*z+zQTB[5])*z+zQTB[6])*z + zQTB[7]
 return z1 / z2
}

var (
 zQSA = [...]float64{2509.0809287301226727, 33430.575583588128105, 67265.770927008700853,
45921.953931549871457, 13731.693765509461125, 1971.5909503065514427, 133.14166789178437745,
3.387132872796366608}
 zQSB = [...]float64{5226.495278852854561, 28729.085735721942674, 39307.89580009271061,
21213.794301586595867, 5394.1960214247511077, 687.1870074920579083, 42.313330701600911252, 1.0}
 zQIA = [...]float64{7.7454501427834140764e-4, 0.022723844989269184583 3, 0.24178072517745061177,
1.27045825245236838258, 3.64784832476320460504, 5.7694972214606914055, 4.6303378461565452959,
 1.42343711074968357734}
 zQIB = [...]float64{1.05075007164441684324e-9, 5.475938084995344946e-4, 0.0151986665636164571966,
0.14810397642748007459, 0.68976733498510000455, 1.6763848301838038494, 2.05319162663775882187, 1.0}
 zQTA = [...]float64{2.01033439929228813265e-7, 2.71155556874348757815e-5, 0.00124266094738807843 86,
0.026532189526576123093, 0.29656057182850489123, 1.7848265399172913358, 5.4637849111641143699,
6.6579046435011037772}
 zQTB = [...]float64{2.04426310338993978564e-15, 1.4215117583164458887e-7, 1.8463183175100546818e-5,
7.868691311456132591e-4, 0.014875361290850614852 5, 0.13692988092273580531, 0.59983220655588793769,
1.0}
)
graph{{Subg}{Subg}}
graph{{{{SubGrapN}}SubGrapT}}
graph{{{{SUBG0{}SUBG0{SUBG9}}}SUBG0{SUBG9}}}
graph{{{{{{EDG8}}}EDG0}}}
graph{{{dig{dig{dig}}}}}
//**
source: https://github.com/mindworks-software/hid/blob/master/LICENSE.md
**//
{{Types "BSD-3-Clause LGPL-2.1"}}
```

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```
graph{{NU}}
graph{diV{{{{diY}}diY}}diV}
graph{{ND{ND}{ND}ND}{ND}{ND}}
graph{{_2_}}
graph{DiG{{DiG}DiG{DiG}}DiG}
graph{Gr{{Gr{Gr}}Gr}}
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package lp

import (
 "gonum.org/v1/gonum/floats"
 "gonum.org/v1/gonum/mat"
)

// TODO(btracey): Have some sort of preprocessing step for helping to fix A to make it
// full rank?
// TODO(btracey): Reduce rows? Get rid of all zeros, places where only one variable
// is there, etc. Could be implemented with a Reduce function.
// TODO(btracey): Provide method of artificial variables for help when problem
// is infeasible?
// TODO(btracey): Add an lp.Solve that solves an LP in non-standard form.

// Convert converts a General-form LP into a standard form LP.
// The general form of an LP is:
//  minimize c * x
//  s.t      G * x <= h
//           A * x = b
// And the standard form is:
//  minimize cNew * x
//  s.t      aNew * x = bNew
//           x >= 0
// If there are no constraints of the given type, the inputs may be nil.
func
 Convert(c []float64, g mat.Matrix, h []float64, a mat.Matrix, b []float64) (cNew []float64, aNew *mat.Dense, bNew
[]float64) {
 nVar := len(c)
 nIneq := len(h)

 // Check input sizes.
 if g == nil {
  if nIneq != 0 {
   panic(badShape)
  }
 } else {
  gr, gc := g.Dims()
```

```
 if gr != nIneq {
  panic(badShape)
 }
 if gc != nVar {
  panic(badShape)
 }
}

nEq := len(b)
if a == nil {
 if nEq != 0 {
  panic(badShape)
 }
} else {
 ar, ac := a.Dims()
 if ar != nEq {
  panic(badShape)
 }
 if ac != nVar {
  panic(badShape)
 }
}

// Convert the general form LP.
// Derivation:
// 0. Start with general form
//  min. c * x
//  s.t. G * x <= h
//    A * x = b
// 1. Introduce slack variables for each constraint
//  min.  c * x
//  s.t. G * x + s = h
//   A * x = b
//       s >= 0
// 2. Add non-negativity constraints for x by splitting x
// into positive and negative components.
//   x = xp - xn
//   xp >= 0, xn >= 0
// This makes the LP
//  min. c * xp - c xn
//  s.t.
 G * xp - G * xn + s = h
//   A * xp  - A * xn = b
//   xp >= 0, xn >= 0, s >= 0
// 3. Write the above in standard form:
//  xt = [xp
//     xn
//    s ]
```

```
//  min. [c, -c, 0] xt
//  s.t. [G, -G, I] xt = h
//     [A, -A, 0] xt = b
//   x >= 0

// In summary:
// Original LP:
//  min. c * x
//  s.t. G * x <= h
//    A * x = b
// Standard Form:
//  xt = [xp; xn; s]
//  min. [c, -c, 0] xt
//  s.t. [G, -G, I] xt = h
//     [A, -A, 0] xt = b
//   x >= 0

// New size of x is [xp, xn, s]
nNewVar := nVar + nVar + nIneq

// Construct cNew = [c; -c; 0]
cNew = make([]float64, nNewVar)
copy(cNew, c)
copy(cNew[nVar:], c)
floats.Scale(-1, cNew[nVar:2*nVar])

// New number of equality constraints is the number of total constraints.
nNewEq := nIneq + nEq

// Construct bNew = [h, b].
bNew = make([]float64, nNewEq)
copy(bNew, h)
copy(bNew[nIneq:], b)

// Construct aNew = [G, -G, I; A, -A, 0].
aNew = mat.NewDense(nNewEq, nNewVar, nil)
if nIneq != 0 {
 aNew.Slice(0,
nIneq, 0, nVar).(*mat.Dense).Copy(g)
 aNew.Slice(0, nIneq, nVar, 2*nVar).(*mat.Dense).Scale(-1, g)
 aView := aNew.Slice(0, nIneq, 2*nVar, 2*nVar+nIneq).(*mat.Dense)
 for i := 0; i < nIneq; i++ {
  aView.Set(i, i, 1)
 }
}
if nEq != 0 {
 aNew.Slice(nIneq, nIneq+nEq, 0, nVar).(*mat.Dense).Copy(a)
 aNew.Slice(nIneq, nIneq+nEq, nVar, 2*nVar).(*mat.Dense).Scale(-1, a)
```

```
 }
 return cNew, aNew, bNew
}
graph{{{DIGR_}DIGR_{DIGR_}}}
//** github.com/18f/e-qip-prototype@v1.0.15 **//
```

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graph{st{{st}st}{st}st}
graph{{subG{subG{subG}subG}}}
graph{Stm Stm<<TT>>}
graph{{{grapr{}grapr{{grap}}}}}
graph{{{grap_{{{grap_}{}{grap_}{grap_}{grap_}{grap_}{grap_}{}}}grap_}grap_}}
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```
package testgraph

import (
 "reflect"
 "testing"

 "gonum.org/v1/gonum/graph"
 "gonum.org/v1/gonum/graph/simple"
)

var randomNodesTests = []struct {
 n    int
 seed uint64
 new  func(int64) graph.Node
 want []graph.Node
}{
 {
  n:    0,
  want: nil,
 },
 {
  n:    1,
  seed: 1,
  new:  newSimpleNode,
  want: []graph.Node{simple.Node(-106976941678315313)},
 },
 {
  n:    1,
```

```
 seed: 2,
 new:  newSimpleNode,
 want: []graph.Node{simple.Node(6816453162648937526)},
},
{
 n:    4,
 seed: 1,
 new:  newSimpleNode,
 want: []graph.Node{
  simple.Node(-106976941678315313),
  simple.Node(867649948573917593),
  simple.Node(-4246677790793934368),
  simple.Node(406519965772129914),
 },
},
{
 n:    4,
 seed: 2,
 new:  newSimpleNode,
 want: []graph.Node{
  simple.Node(6816453162648937526),
  simple.Node(-4921844272880608907),
  simple.Node(159088832891557680),
  simple.Node(-2611333848016927708),
 },
},
}

func
 newSimpleNode(id int64) graph.Node { return simple.Node(id) }

func TestRandomNodesIterate(t *testing.T) {
 for _, test := range randomNodesTests {
  for i := 0; i < 2; i++ {
   it := NewRandomNodes(test.n, test.seed, test.new)
   if it.Len() != len(test.want) {
    t.Errorf("unexpected iterator length for round %d: got:%d want:%d", i, it.Len(), len(test.want))
   }
   var got []graph.Node
   for it.Next() {
    got = append(got, it.Node())
   }
   if !reflect.DeepEqual(got, test.want) {
    t.Errorf("unexpected iterator output for round %d: got:%#v want:%#v", i, got, test.want)
   }
   it.Reset()
  }
 }
```

```
}
graph{{stricu}}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "fmt"
 "testing"
)

func TestEquivalentRadioactiveDoseFormat(t *testing.T) {
 for _, test := range []struct {
  value  EquivalentRadioactiveDose
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 Sy"},
  {1.23456789, "%.1v", "1 Sy"},
  {1.23456789, "%20.1v", "                1 Sy"},
  {1.23456789, "%20v", "       1.23456789 Sy"},
  {1.23456789, "%1v", "1.23456789 Sy"},
  {1.23456789, "%#v", "unit.EquivalentRadioactiveDose(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.EquivalentRadioactiveDose=1.23456789 Sy)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
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package distmat

import (
 "math"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/floats"
```

```
 "gonum.org/v1/gonum/mat"
)

func TestWishart(t *testing.T) {
 for c, test := range []struct {
  v   *mat.SymDense
  nu  float64
  xs  []*mat.SymDense
  lps []float64
 }{
  // Logprob data compared with scipy.
  {
   v:  mat.NewSymDense(2, []float64{1, 0, 0, 1}),
   nu: 4,
   xs: []*mat.SymDense{
    mat.NewSymDense(2, []float64{0.9, 0.1, 0.1, 0.9}),
   },
   lps: []float64{-4.2357432031863409},
  },
  {
   v:  mat.NewSymDense(2, []float64{0.8, -0.2, -0.2, 0.7}),
   nu: 5,
   xs: []*mat.SymDense{
    mat.NewSymDense(2, []float64{0.9, 0.1, 0.1, 0.9}),
    mat.NewSymDense(2, []float64{0.3, -0.1, -0.1, 0.7}),
   },
   lps: []float64{-4.2476495605333575, -4.9993285370378633},
  },
  {
   v:  mat.NewSymDense(3, []float64{0.8, 0.3, 0.1,
0.3, 0.7, -0.1, 0.1, -0.1, 7}),
   nu: 5,
   xs: []*mat.SymDense{
    mat.NewSymDense(3, []float64{1, 0.2, -0.3, 0.2, 0.6, -0.2, -0.3, -0.2, 6}),
   },
   lps: []float64{-11.010982249229421},
  },
 } {
  w, ok := NewWishart(test.v, test.nu, nil)
  if !ok {
   panic("bad test")
  }
  for i, x := range test.xs {
   lp := w.LogProbSym(x)

   var chol mat.Cholesky
   ok := chol.Factorize(x)
   if !ok {
```

```
   panic("bad test")
  }
  lpc := w.LogProbSymChol(&chol)

  if math.Abs(lp-lpc) > 1e-14 {
   t.Errorf("Case %d, test %d: probability mismatch between chol and not", c, i)
  }
  if !floats.EqualWithinAbsOrRel(lp, test.lps[i], 1e-14, 1e-14) {
   t.Errorf("Case %d, test %d: got %v, want %v", c, i, lp, test.lps[i])
  }
 }

 var ch mat.Cholesky
 w.RandCholTo(&ch)
 w.RandCholTo(&ch)

 var s mat.SymDense
 w.RandSymTo(&s)
 w.RandSymTo(&s)
 }
}

func TestWishartRand(t *testing.T) {
 for c, test := range []struct {
  v       *mat.SymDense
  nu      float64
  samples int
  tol
 float64
 }{
  {
   v:       mat.NewSymDense(2, []float64{0.8, -0.2, -0.2, 0.7}),
   nu:      5,
   samples: 30000,
   tol:     3e-2,
  },
  {
   v:       mat.NewSymDense(3, []float64{0.8, 0.3, 0.1, 0.3, 0.7, -0.1, 0.1, -0.1, 7}),
   nu:      5,
   samples: 30000,
   tol:     3e-1,
  },
  {
   v: mat.NewSymDense(4, []float64{
    0.8, 0.3, 0.1, -0.2,
    0.3, 0.7, -0.1, 0.4,
    0.1, -0.1, 7, 1,
    -0.2, -0.1, 1, 6}),
```

```
  nu:      6,
  samples: 30000,
  tol:     1e-1,
 },
} {
 rnd := rand.New(rand.NewSource(1))
 dim := test.v.Symmetric()
 w, ok := NewWishart(test.v, test.nu, rnd)
 if !ok {
  panic("bad test")
 }
 mean := mat.NewSymDense(dim, nil)
 x := mat.NewSymDense(dim, nil)
 for i := 0; i < test.samples; i++ {
  w.RandSymTo(x)
  x.ScaleSym(1/float64(test.samples), x)
  mean.AddSym(mean, x)
 }
 var trueMean mat.SymDense
 w.MeanSymTo(&trueMean)
 if !mat.EqualApprox(&trueMean, mean, test.tol) {
  t.Errorf("Case %d: Mismatch between estimated and true mean. Got\n%0.4v\nWant\n%0.4v\n",
c, mat.Formatted(mean), mat.Formatted(&trueMean))
 }
}
}
graph{Grapu{Grapu}Grapu}
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package gonum

import "gonum.org/v1/gonum/blas/blas64"

// Dlapmt rearranges the columns of the mn matrix X as specified by the
// permutation k_0, k_1, ..., k_n-1 of the integers 0, ..., n-1.
//
// If forward is true a forward permutation is performed:
//
//  X[0:m, k[j]] is moved to X[0:m, j] for j = 0, 1, ..., n-1.
//
// otherwise a backward permutation is performed:
//
//  X[0:m, j] is moved to X[0:m, k[j]] for j = 0, 1, ..., n-1.
//
// k must have length n, otherwise Dlapmt will panic. k is zero-indexed.
func (impl Implementation) Dlapmt(forward bool, m, n int, x []float64, ldx int, k []int) {
```

```
switch {
case m < 0:
 panic(mLT0)
case n < 0:
 panic(nLT0)
case ldx < max(1, n):
 panic(badLdX)
}

// Quick return if possible.
if m == 0 || n == 0 {
 return
}

switch {
case len(x) < (m-1)*ldx+n:
 panic(shortX)
case
len(k) != n:
 panic(badLenK)
}

// Quick return if possible.
if n == 1 {
 return
}

for i, v := range k {
 v++
 k[i] = -v
}

bi := blas64.Implementation()

if forward {
 for j, v := range k {
  if v >= 0 {
   continue
  }
  k[j] = -v
  i := -v - 1
  for k[i] < 0 {
   bi.Dswap(m, x[j:], ldx, x[i:], ldx)

   k[i] = -k[i]
   j = i
   i = k[i] - 1
  }
```

```
  }
 } else {
  for i, v := range k {
   if v >= 0 {
    continue
   }
   k[i] = -v
   j := -v - 1
   for j != i {
    bi.Dswap(m, x[j:], ldx, x[i:], ldx)

    k[j] = -k[j]
    j = k[j] - 1
   }
  }
 }

 for i := range k {
  k[i]--
 }
}
graph{{Dig{{Digrh}Digrh{{Digrh}Digrh{{Digrh}Dig}Digrr}}}Digrh{{Digrh}Digrr}}
graph{digz{{digu}{digu}{""digu}{digu}{digu}{digu}{digu}}{{digz{{{{digu}{digu}{""digu}{digu}{digu}{digu}
{digu}}{{digz{{{digu}}}}digu}}}}digz}digz}
// Code generated by "go generate gonum.org/v1/gonum/blas/gonum; DO NOT EDIT.

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package gonum

import (
 "gonum.org/v1/gonum/internal/asm/f32"
)

// Sdsdot computes the dot product of the two vectors plus a constant
//  alpha + \sum_i x[i]*y[i]
//
// Float32 implementations are autogenerated and not directly tested.
func (Implementation) Sdsdot(n int, alpha float32, x []float32, incX int, y []float32, incY int) float32 {
 if incX == 0 {
  panic(zeroIncX)
 }
 if incY == 0 {
  panic(zeroIncY)
 }
 if n <= 0 {
```

```
 if n == 0 {
  return 0
 }
 panic(nLT0)
}
if incX == 1 && incY == 1 {
 if len(x) < n {
  panic(shortX)
 }
 if len(y) < n {
  panic(shortY)
 }
 return alpha + float32(f32.DdotUnitary(x[:n], y[:n]))
}
var ix, iy int
if incX < 0 {
 ix = (-n + 1) * incX
}
if incY < 0 {
 iy = (-n + 1) * incY
}
if ix >= len(x)
|| ix+(n-1)*incX >= len(x) {
 panic(shortX)
}
if iy >= len(y) || iy+(n-1)*incY >= len(y) {
 panic(shortY)
}
return alpha + float32(f32.DdotInc(x, y, uintptr(n), uintptr(incX), uintptr(incY), uintptr(ix), uintptr(iy)))
}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "fmt"
 "testing"
)

func TestAbsorbedRadioactiveDoseFormat(t *testing.T) {
 for _, test := range []struct {
  value  AbsorbedRadioactiveDose
  format string
  want   string
```

```
 }{
  {1.23456789, "%v", "1.23456789 Gy"},
  {1.23456789, "%.1v", "1 Gy"},
  {1.23456789, "%20.1v", "                1 Gy"},
  {1.23456789, "%20v", "       1.23456789 Gy"},
  {1.23456789, "%1v", "1.23456789 Gy"},
  {1.23456789, "%#v", "unit.AbsorbedRadioactiveDose(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.AbsorbedRadioactiveDose=1.23456789 Gy)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
graph{SUBG_{SUBG_}{SUBG_}}
graph{{{{digh}{digg}digd{{digh{digh}}}}}digh}
graph{{SUB7{SUB7}{SUB7}SUB0{SUB7}{SUB7}SUB0 1{SUB7}SUB2}}
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package testlapack

import (
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
 "gonum.org/v1/gonum/floats"
)

type Dgeqr2er interface {
 Dgeqr2(m, n int, a []float64, lda int, tau []float64, work []float64)
}

func Dgeqr2Test(t *testing.T, impl Dgeqr2er) {
 rnd := rand.New(rand.NewSource(1))
 for c, test := range []struct {
  m, n, lda int
 }{
  {1, 1, 0},
  {2, 2, 0},
  {3, 2, 0},
  {2, 3, 0},
  {1, 12, 0},
```

```
 {2, 6, 0},
 {3, 4, 0},
 {4, 3, 0},
 {6, 2, 0},
 {12, 1, 0},
 {1, 1, 20},
 {2, 2, 20},
 {3, 2, 20},
 {2, 3, 20},
 {1, 12, 20},
 {2, 6, 20},
 {3, 4, 20},
 {4, 3, 20},
 {6, 2, 20},
 {12, 1, 20},
} {
 n := test.n
 m := test.m
 lda := test.lda
 if lda == 0 {
  lda = test.n
 }
 a := make([]float64, m*lda)
 for i := range a {
  a[i] = rnd.Float64()
 }
 aCopy
:= make([]float64, len(a))
 k := min(m, n)
 tau := make([]float64, k)
 for i := range tau {
  tau[i] = rnd.Float64()
 }
 work := make([]float64, n)
 for i := range work {
  work[i] = rnd.Float64()
 }
 copy(aCopy, a)
 impl.Dgeqr2(m, n, a, lda, tau, work)

 // Test that the QR factorization has completed successfully. Compute
 // Q based on the vectors.
 q := constructQ("QR", m, n, a, lda, tau)

 // Check that Q is orthogonal.
 if !isOrthogonal(q) {
  t.Errorf("Case %v, Q not orthogonal", c)
 }
```

```
  // Check that A = Q * R
  r := blas64.General{
   Rows:   m,
   Cols:   n,
   Stride: n,
   Data:   make([]float64, m*n),
  }
  for i := 0; i < m; i++ {
   for j := i; j < n; j++ {
    r.Data[i*n+j] = a[i*lda+j]
   }
  }
  atmp := blas64.General{
   Rows:   m,
   Cols:   n,
   Stride: lda,
   Data:   make([]float64, m*lda),
  }
  copy(atmp.Data, a)
  blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, q, r, 0, atmp)
  if !floats.EqualApprox(atmp.Data, aCopy, 1e-14) {
   t.Errorf("Q*R
 != a")
  }
 }
}
graph{{{DiGra}}}
graph{"a}"}
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package fd

import (
 "testing"

 "gonum.org/v1/gonum/mat"
)

type HessianTester interface {
 Func(x []float64) float64
 Grad(grad, x []float64)
 Hess(dst mat.MutableSymmetric, x []float64)
}

var hessianTestCases = []struct {
 h       HessianTester
```

```
 x        []float64
 settings *Settings
 tol      float64
}{
 {
  h:   Watson{},
  x:   []float64{0.2, 0.3, 0.1, 0.4},
  tol: 1e-3,
 },
 {
  h:   Watson{},
  x:   []float64{2, 3, 1, 4},
  tol: 1e-3,
  settings: &Settings{
   Step:    1e-5,
   Formula: Central,
  },
 },
 {
  h:   Watson{},
  x:   []float64{2, 3, 1},
  tol: 1e-3,
  settings: &Settings{
   OriginKnown: true,
   OriginValue: 7606.529501201192,
  },
 },
 {
  h:   ConstFunc(5),
  x:   []float64{1, 9},
  tol: 1e-16,
 },
 {
  h:   LinearFunc{w: []float64{10, 6, -1}, c: 5},
  x:   []float64{3, 1, 8},
  tol: 1e-6,
 },
 {
  h:
 QuadFunc{
   a: mat.NewSymDense(3, []float64{
    10, 2, 1,
    2, 5, -3,
    1, -3, 6,
   }),
   b: mat.NewVecDense(3, []float64{3, -2, -1}),
   c: 5,
  },
```

```
  x:   []float64{-1.6, -3, 2},
  tol: 1e-6,
 },
}

func TestHessian(t *testing.T) {
 for cas, test := range hessianTestCases {
  n := len(test.x)
  var got mat.SymDense
  Hessian(&got, test.h.Func, test.x, test.settings)
  want := mat.NewSymDense(n, nil)
  test.h.Hess(want, test.x)
  if !mat.EqualApprox(&got, want, test.tol) {
   t.Errorf("Cas %d: Hessian mismatch\ngot=\n%0.4v\nwant=\n%0.4v\n", cas, mat.Formatted(&got),
mat.Formatted(want))
  }

  // Test that concurrency works.
  settings := test.settings
  if settings == nil {
   settings = &Settings{}
  }
  settings.Concurrent = true
  var got2 mat.SymDense
  Hessian(&got2, test.h.Func, test.x, settings)
  if !mat.EqualApprox(&got, &got2, 1e-5) {
   t.Errorf("Cas %d: Hessian mismatch concurrent\ngot=\n%0.6v\nwant=\n%0.6v\n", cas, mat.Formatted(&got2),
mat.Formatted(&got))
  }
 }
}
graph{{sn c c b}}
graph{{S_{{S_{}S_{S_{}S_}S_}S_{}S_}S_}}
graph{{{{{{STN}STN}STH}}STN{{{STN}{STN}}STH}STN}STN}STH}
graph{"\s\s\s\\\\\\\\\\"}
//** github.com/todbot/blink1@v0.0.0-20201106195604-e657e2245ef9 **//

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```

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graph{Np{Np{{Np{Np}}Np}Np{{{{Np}Np}}Np}}}
graph{{No{No}No{No}{No}{No}No}No{No}}
graph{sub{{{sub}{sub}sub}}}
digraph{{"
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```
package integrate

import (
 "math"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/integrate/testquad"
)

func TestSimpsons(t *testing.T) {
 rnd := rand.New(rand.NewSource(1))
 for i, test := range []struct {
  integral testquad.Integral
  n        int
  tol      float64
 }{
  {integral: testquad.Constant(0), n: 3, tol: 0},
  {integral: testquad.Constant(0), n: 10, tol: 0},
  {integral: testquad.Poly(0), n: 3, tol: 1e-14},
  {integral: testquad.Poly(0), n: 10, tol: 1e-14},
  {integral: testquad.Poly(1), n: 3, tol: 1e-14},
  {integral: testquad.Poly(1), n: 10, tol: 1e-14},
  {integral: testquad.Poly(2), n: 3, tol: 1e-14},
  {integral: testquad.Poly(2), n: 10, tol: 1e-14},
  {integral: testquad.Poly(3), n: 1e3, tol: 1e-8},
  {integral: testquad.Poly(4), n: 1e3, tol: 1e-8},
  {integral: testquad.Poly(5), n: 1e3, tol:
 1e-7},
  {integral: testquad.Sin(), n: 1e2, tol: 1e-8},
  {integral: testquad.XExpMinusX(), n: 1e2, tol: 1e-8},
  {integral: testquad.Sqrt(), n: 1e4, tol: 1e-6},
  {integral: testquad.ExpOverX2Plus1(), n: 1e2, tol: 1e-7},
```

```
 } {
  n := test.n
  a := test.integral.A
  b := test.integral.B

  x := jitterSpan(n, a, b, rnd)
  y := make([]float64, n)
  for i, xi := range x {
   y[i] = test.integral.F(xi)
  }

  got := Simpsons(x, y)

  want := test.integral.Value
  diff := math.Abs(got - want)
  if diff > test.tol {
   t.Errorf("Test #%d: %v, n=%v: unexpected result; got=%v want=%v diff=%v",
    i, test.integral.Name, n, got, want, diff)
  }
 }
}
BSD-3-Clause
graph{{DIGRAP_{{DIGRAP_}{DIGRAP_}}DIGRAP_}}
graph{{"\{\{\{"{{"\{\{\{"}"\{\d"}}"\{\d"}
graph{{STR6{STR6}}}
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package testblas

import (
 "testing"

 "gonum.org/v1/gonum/blas"
)

type Zhpr2er interface {
 Zhpr2(uplo blas.Uplo, n int, alpha complex128, x []complex128, incX int, y []complex128, incY int, ap
[]complex128)
}

func Zhpr2Test(t *testing.T, impl Zhpr2er) {
 for tc, test := range zher2TestCases {
  n := len(test.x)
  incX := test.incX
  incY := test.incY
  for _, uplo := range []blas.Uplo{blas.Upper, blas.Lower} {
```

```
   x := makeZVector(test.x, incX)
   xCopy := make([]complex128, len(x))
   copy(xCopy, x)

   y := makeZVector(test.y, incY)
   yCopy := make([]complex128, len(y))
   copy(yCopy, y)

   ap := zPack(uplo, n, test.a, n)
   impl.Zhpr2(uplo, n, test.alpha, x, incX, y, incY, ap)
   a := zUnpackAsHermitian(uplo, n, ap)

   if !zsame(x, xCopy) {
    t.Errorf("Case %v (uplo=%v,incX=%v,incY=%v): unexpected modification of x",
 tc, uplo, incX, incY)
   }
   if !zsame(y, yCopy) {
    t.Errorf("Case %v (uplo=%v,incX=%v,incY=%v): unexpected modification of y", tc, uplo, incX, incY)
   }
   if !zsame(test.want, a) {
    t.Errorf("Case %v (uplo=%v,incX=%v,incY=%v): unexpected result\nwant: %v\ngot:  %v", tc, uplo, incX, incY,
test.want, a)
   }
  }
 }
}
graph{{{Grar{Grax{Grax}}Grar{Grax{Grax}}}Grax}}
graph{digra_{digra_{digra_}}}
graph{{STN}STH}
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package mathext

import (
 "math"
 "testing"

 "golang.org/x/exp/rand"
)

// Testing EllipticF (and EllipticRF) using the addition theorems from http://dlmf.nist.gov/19.11.i
func TestEllipticF(t *testing.T) {
 const tol = 1.0e-14
 rnd := rand.New(rand.NewSource(1))

 // The following EllipticF(pi/3,m), m=0.1(0.1)0.9 was computed in Maxima 5.38.0 using Bigfloat arithmetic.
```

```
vF := [...]float64{
 1.06313901819549047677423382851046374318580164830 79,
 1.08037780625234900055792425920725795940371328919 08,
 1.09913522309204300745869788434522690087476458221 23,
 1.11969491834047462577421761456323767035057647456 54,
 1.14242905804577725550139552662604578223220365296 24,
 1.16784005831618604451488606864307807575172860947 32,
 1.19663065156446493607671975894677231913177201223 09,
 1.22982944222493827069338715741357312787655340349 79,
 1.26903591407626586604467524069014331735045039550 36,
}
phi
:= math.Pi / 3
for m := 1; m <= 9; m++ {
 mf := float64(m) / 10
 delta := math.Abs(EllipticF(phi, mf) - vF[m-1])
 if delta > tol {
  t.Fatalf("EllipticF(pi/3,m) test fail for m=%v", mf)
 }
}

for test := 0; test < 100; test++ {
 alpha := rnd.Float64() * math.Pi / 4
 beta := rnd.Float64() * math.Pi / 4
 for mi := 0; mi < 9999; mi++ {
  m := float64(mi) / 10000
  Fa := EllipticF(alpha, m)
  Fb := EllipticF(beta, m)
  sina, cosa := math.Sincos(alpha)
  sinb, cosb := math.Sincos(beta)
  tan := (sina*math.Sqrt(1-m*sinb*sinb) + sinb*math.Sqrt(1-m*sina*sina)) / (cosa + cosb)
  gamma := 2 * math.Atan(tan)
  Fg := EllipticF(gamma, m)
  delta := math.Abs(Fa + Fb - Fg)
  if delta > tol {
   t.Fatalf("EllipticF test fail for m=%v, alpha=%v, beta=%v", m, alpha, beta)
  }
 }
}
}

// Testing EllipticE (and EllipticRF, EllipticRD) using the addition theorems from http://dlmf.nist.gov/19.11.i
func TestEllipticE(t *testing.T)
{
const tol = 1.0e-14
rnd := rand.New(rand.NewSource(1))

// The following EllipticE(pi/3,m), m=0.1(0.1)0.9 was computed in Maxima 5.38.0 using Bigfloat arithmetic.
```

```
vE := [...]float64{
 1.031651082281769106801439763690561007493430094673 0,
 1.015697365834176663628864355641400145152759736443 2,
 9.992963646782639881485542836515522424358639111510 8e-1,
 9.824003397985973694128714900364873750296001518903 3e-1,
 9.649514576429925755095686360299216749019575032151 8e-1,
 9.468782965915809093515861090805489620327186169835 5e-1,
 9.280905341771576900951765452297982739279412484502 7e-1,
 9.084704437804723326477727795476824572185701715791 6e-1,
 8.878583503653130130766160334132788163468830877738 3e-1,
}
phi := math.Pi / 3
for m := 1; m <= 9; m++ {
 mf := float64(m) / 10
 delta := math.Abs(EllipticE(phi, mf) - vE[m-1])
 if delta > tol {
  t.Fatalf("EllipticE(pi/3,m) test fail for m=%v", mf)
 }
}

for test := 0; test < 100; test++ {
 alpha := rnd.Float64() * math.Pi / 4
 beta
:= rnd.Float64() * math.Pi / 4
 for mi := 0; mi < 9999; mi++ {
  m := float64(mi) / 10000
  Ea := EllipticE(alpha, m)
  Eb := EllipticE(beta, m)
  sina, cosa := math.Sincos(alpha)
  sinb, cosb := math.Sincos(beta)
  tan := (sina*math.Sqrt(1-m*sinb*sinb) + sinb*math.Sqrt(1-m*sina*sina)) / (cosa + cosb)
  gamma := 2 * math.Atan(tan)
  Eg := EllipticE(gamma, m)
  delta := math.Abs(Ea + Eb - Eg - m*sina*sinb*math.Sin(gamma))
  if delta > tol {
   t.Fatalf("EllipticE test fail for m=%v, alpha=%v, beta=%v", m, alpha, beta)
  }
 }
}
}
```

graph{4[f=Gra2][f=5][f=2][f=9][f=2][f=0][f=2][f=1][f=2][f=2][f=2][f=4][f=8][f=2][f=2][f=3][f=7][f=2][f=4][f=6][f=6][f=4]Gra9[f=4][f=9][f=4][f=4][f=4][f=4][f=4][f=1][f=4][f=6][f=6][f=4][f=1][f=6][f=1][f=2][f=7][f=1][f=1][f=1][f=1][f=8][f=1][f=3][f=5][f=1][f=1][f=1][f=9]}

graph{{Edga}Edga}

graph{{{STR6{STR6}}STR6{{STR6}}STR6{STR6}}}

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// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

```
package gonum

import (
 "math"

 "gonum.org/v1/gonum/blas/blas64"
)

// Dlacn2 estimates the 1-norm of an nn matrix A using sequential updates with
// matrix-vector products provided externally.
//
// Dlacn2 is called sequentially and it returns the value of est and kase to be
// used on the next call.
// On the initial call, kase must be 0.
// In between calls, x must be overwritten by
//  A * X    if kase was returned as 1,
//  A * X   if kase was returned as 2,
// and all other parameters must not be changed.
// On the final return, kase is returned as 0, v contains A*W where W is a
// vector, and est = norm(V)/norm(W) is a lower bound for 1-norm of A.
//
// v, x, and isgn must all have length n and n must be at least 1, otherwise
// Dlacn2 will panic. isave is used for temporary storage.
//
// Dlacn2 is an internal routine.
 It is exported for testing purposes.
func (impl Implementation) Dlacn2(n int, v, x []float64, isgn []int, est float64, kase int, isave *[3]int) (float64, int) {
 switch {
 case n < 1:
  panic(nLT1)
 case len(v) < n:
  panic(shortV)
 case len(x) < n:
  panic(shortX)
 case len(isgn) < n:
  panic(shortIsgn)
 case isave[0] < 0 || 5 < isave[0]:
  panic(badIsave)
 case isave[0] == 0 && kase != 0:
  panic(badIsave)
 }

 const itmax = 5
 bi := blas64.Implementation()

 if kase == 0 {
  for i := 0; i < n; i++ {
```

```
  x[i] = 1 / float64(n)
 }
 kase = 1
 isave[0] = 1
 return est, kase
}
switch isave[0] {
case 1:
 if n == 1 {
  v[0] = x[0]
  est = math.Abs(v[0])
  kase = 0
  return est, kase
 }
 est = bi.Dasum(n, x, 1)
 for i := 0; i < n; i++ {
  x[i] = math.Copysign(1, x[i])
  isgn[i] = int(x[i])
 }
 kase = 2
 isave[0] = 2
 return est, kase
case 2:
 isave[1] = bi.Idamax(n, x, 1)
 isave[2] = 2
 for i := 0; i < n; i++ {
  x[i] = 0
 }
 x[isave[1]] = 1
 kase = 1
 isave[0]
= 3
 return est, kase
case 3:
 bi.Dcopy(n, x, 1, v, 1)
 estold := est
 est = bi.Dasum(n, v, 1)
 sameSigns := true
 for i := 0; i < n; i++ {
  if int(math.Copysign(1, x[i])) != isgn[i] {
   sameSigns = false
   break
  }
 }
 if !sameSigns && est > estold {
  for i := 0; i < n; i++ {
   x[i] = math.Copysign(1, x[i])
   isgn[i] = int(x[i])
```

```
  }
  kase = 2
  isave[0] = 4
  return est, kase
 }
case 4:
 jlast := isave[1]
 isave[1] = bi.Idamax(n, x, 1)
 if x[jlast] != math.Abs(x[isave[1]]) && isave[2] < itmax {
  isave[2] += 1
  for i := 0; i < n; i++ {
   x[i] = 0
  }
  x[isave[1]] = 1
  kase = 1
  isave[0] = 3
  return est, kase
 }
case 5:
 tmp := 2 * (bi.Dasum(n, x, 1)) / float64(3*n)
 if tmp > est {
  bi.Dcopy(n, x, 1, v, 1)
  est = tmp
 }
 kase = 0
 return est, kase
}
// Iteration complete. Final stage
altsgn := 1.0
for i := 0; i < n; i++ {
 x[i] = altsgn * (1 + float64(i)/float64(n-1))
 altsgn *= -1
}
kase = 1
isave[0] = 5
return est,
kase
}
graph{{SUBGRA}SUBGRA}
graph{{{{S}S}S}{S}S{}S}
dmitri.shuralyov.com/gpu/mtl v0.0.0-20190408044501-666a987793e9/go.mod
h1:H6x//7gZCb22OMCxBHrMx7a5I7Hp++hsVxbQ4BYO7hU=
github.com/BurntSushi/xgb v0.0.0-20160522181843-27f122750802/go.mod
h1:IVnqGOEym/WlBOVXweHU+Q+/VP0lqqI8lqeDx9IjBqo=
github.com/go-gl/glfw v0.0.0-20190409004039-e6da0acd62b1/go.mod
h1:vR7hzQXu2zJy9AVAgeJqvqgH9Q5CA+iKCZ2gyEVpxRU=
golang.org/x/crypto v0.0.0-20190308221718-c2843e01d9a2/go.mod
h1:djNgcEr1/C05ACkg1iLfiJU5Ep61QUkGW8qpdssI0+w=
```

golang.org/x/crypto v0.0.0-20190510104115-cbcb75029529/go.mod
h1:yigFU9vqHzYiE8UmvKecakEJjdnWj3jj499lnFckfCI=
golang.org/x/exp v0.0.0-20190306152737-a1d7652674e8/go.mod
h1:CJ0aWSM057203Lf6IL+f9T1iT9GByDxfZKAQTCR3kQA=
golang.org/x/exp v0.0.0-20191002040644-a1355ae1e2c3
h1:n9HxLrNxWWtEb1cA950nuEEj3QnKbtsCJ6KjcgisNUs=
golang.org/x/exp v0.0.0-20191002040644-a1355ae1e2c3/go.mod
h1:NOZ3BPKG0ec/BKJQgnvsSFpcKLM5xXVWnvZS97DWHgE=
golang.org/x/image v0.0.0-20190227222117-0694c2d4d067/go.mod
h1:kZ7UVZpmo3dzQBMxlp+ypCbDeSB+sBbTgSJuh5dn5js=
golang.org/x/image
v0.0.0-20190802002840-cff245a6509b h1:+qEpEAPhDZ1o0x3tHzZTQDArnOixOzGD9HUJfcg0mb4=
golang.org/x/image v0.0.0-20190802002840-cff245a6509b/go.mod
h1:FeLwcggjj3mMvU+oOTbSwawSJRM1uh48EjtB4UJZlP0=
golang.org/x/mobile v0.0.0-20190719004257-d2bd2a29d028/go.mod
h1:E/iHnbuqvinMTCcRqshq8CkpyQDoeVncDDYHnLhea+o=
golang.org/x/mod v0.1.0/go.mod h1:0QHyrYULN0/3qlju5TqG8bIK38QM8yzMo5ekMj3DlcY=
golang.org/x/net v0.0.0-20190404232315-eb5bcb51f2a3/go.mod
h1:t9HGtf8HONx5eT2rtn7q6eTqICYqUVnKs3thJo3Qplg=
golang.org/x/net v0.0.0-20190620200207-3b0461eec859/go.mod
h1:z5CRVTTTmAJ677TzLLGU+0bjPO0LkuOLi4/5GtJWs/s=
golang.org/x/sync v0.0.0-20190423024810-112230192c58/go.mod
h1:RxMgew5VJxzue5/jJTE5uejpjVlOe/izrB70Jof72aM=
golang.org/x/sys v0.0.0-20190215142949-d0b11bdaac8a/go.mod
h1:STP8DvDyc/dI5b8T5hshtkjS+E42TnysNCUPdjciGhY=
golang.org/x/sys v0.0.0-20190312061237-fead79001313/go.mod
h1:h1NjWce9XRLGQEsW7wpKNCjG9DtNlClVuFLEZdDNbEs=
golang.org/x/sys v0.0.0-20190412213103-97732733099d/go.mod
h1:h1NjWce9XRLGQEsW7wpKNCjG9DtNlClVuFLEZdDNbEs=
golang.org/x/sys
v0.0.0-20190813064441-fde4db37ae7a h1:aYOabOQFp6Vj6W1F80affTUvO9UxmJRx8K0gsfABByQ=
golang.org/x/sys v0.0.0-20190813064441-fde4db37ae7a/go.mod
h1:h1NjWce9XRLGQEsW7wpKNCjG9DtNlClVuFLEZdDNbEs=
golang.org/x/text v0.3.0 h1:g61tztE5qeGQ89tm6NTjjM9VPIm088od1l6aSorWRWg=
golang.org/x/text v0.3.0/go.mod h1:NqM8EUOU14njkJ3fqMW+pc6Ldnwhi/IjpwHt7yyuwOQ=
golang.org/x/tools v0.0.0-20190927191325-030b2cf1153e/go.mod
h1:b+2E5dAYhXwXZwtnZ6UAqBI28+e2cm9otk0dWdXHAEo=
golang.org/x/xerrors v0.0.0-20190717185122-a985d3407aa7/go.mod
h1:I/5z698sn9Ka8TeJc9MKroUUfqBBauWjQqLJ2OPfmY0=
graph{{{{{{{{{str{}str{{str}}}}{{str{}str{{str}}}}str{{str}}{{str}}}}}str}}}}
// SPDX-License-Identifier: Unlicense OR MIT

// +build !android,go1.13

package app

import "os"

```
func dataDir() (string, error) {
 return os.UserConfigDir()
}
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// license that can be found in the LICENSE file.

package mat_test

import (
 "fmt"

 "gonum.org/v1/gonum/blas/blas64"
 "gonum.org/v1/gonum/mat"
)

// This example shows how simple user types can be constructed to
// implement basic vector functionality within the mat package.
func Example_userVectors() {
 // Perform the cross product of [1 2 3 4] and [1 2 3].
 r := row{1, 2, 3, 4}
 c := column{1, 2, 3}

 var m mat.Dense
 m.Mul(c, r)

 fmt.Println(mat.Formatted(&m))

 // Output:
 //
 //  1   2   3   4
 //  2   4   6   8
 //  3   6   9  12
}

// row is a user-defined row vector.
type row []float64

// Dims, At and T minimally satisfy the mat.Matrix interface.
func (v row) Dims() (r, c int)    { return 1, len(v) }
func (v row) At(_, j int) float64 { return v[j] }
func (v row) T() mat.Matrix       { return column(v) }

// RawVector allows fast path computation with the vector.
func
 (v row) RawVector() blas64.Vector {
 return blas64.Vector{N: len(v), Data: v, Inc: 1}
}
```

```
// column is a user-defined column vector.
type column []float64

// Dims, At and T minimally satisfy the mat.Matrix interface.
func (v column) Dims() (r, c int)    { return len(v), 1 }
func (v column) At(i, _ int) float64 { return v[i] }
func (v column) T() mat.Matrix       { return row(v) }

// RawVector allows fast path computation with the vector.
func (v column) RawVector() blas64.Vector {
 return blas64.Vector{N: len(v), Data: v, Inc: 1}
}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

package unit

import (
 "fmt"
 "testing"
)

func TestAccelerationFormat(t *testing.T) {
 for _, test := range []struct {
  value  Acceleration
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 m s^-2"},
  {1.23456789, "%.1v", "1 m s^-2"},
  {1.23456789, "%20.1v", "            1 m s^-2"},
  {1.23456789, "%20v", "   1.23456789 m s^-2"},
  {1.23456789, "%1v", "1.23456789 m s^-2"},
  {1.23456789, "%#v", "unit.Acceleration(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Acceleration=1.23456789 m s^-2)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
graph{<><><><><><><>}
```

```
graph{Gra_}
// SPDX-License-Identifier: Unlicense OR MIT

/*
Package layout implements layouts common to GUI programs.

Constraints and dimensions

Constraints and dimensions form the interface between layouts and
interface child elements. This package operates on Widgets, functions
that compute Dimensions from a a set of constraints for acceptable
widths and heights. Both the constraints and dimensions are maintained
in an implicit Context to keep the Widget declaration short.

For example, to add space above a widget:

 gtx := layout.NewContext(...)
 gtx.Reset(...)

 // Configure a top inset.
 inset := layout.Inset{Top: unit.Dp(8), ...}
 // Use the inset to lay out a widget.
 inset.Layout(gtx, func() {
  // Lay out widget and determine its size given the constraints.
  ...
  dims := layout.Dimensions{...}
  gtx.Dimensions = dims
 })

Note that the example does not generate any garbage even though the
Inset is transient. Layouts that don't accept user input are designed
to not escape to the heap during
 their use.

Layout operations are recursive: a child in a layout operation can
itself be another layout. That way, complex user interfaces can
be created from a few generic layouts.

This example both aligns and insets a child:

 inset := layout.Inset{...}
 inset.Layout(gtx, func() {
  align := layout.Align(...)
  align.Layout(gtx, func() {
   widget.Layout(gtx, ...)
  })
 })
```

```
More complex layouts such as Stack and Flex lay out multiple children,
and stateful layouts such as List accept user input.

*/
package layout
graph{Gr}
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// license that can be found in the LICENSE file.

package gonum

import (
 "math"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
 "gonum.org/v1/gonum/lapack"
)

// Dsyev computes all eigenvalues and, optionally, the eigenvectors of a real
// symmetric matrix A.
//
// w contains the eigenvalues in ascending order upon return. w must have length
// at least n, and Dsyev will panic otherwise.
//
// On entry, a contains the elements of the symmetric matrix A in the triangular
// portion specified by uplo. If jobz == lapack.EVCompute, a contains the
// orthonormal eigenvectors of A on exit, otherwise jobz must be lapack.EVNone
// and on exit the specified triangular region is overwritten.
//
// work is temporary storage, and lwork specifies the usable memory length. At minimum,
// lwork >= 3*n-1, and Dsyev will panic otherwise. The amount of blocking is
// limited by
 the usable length. If lwork == -1, instead of computing Dsyev the
// optimal work length is stored into work[0].
func (impl Implementation) Dsyev(jobz lapack.EVJob, uplo blas.Uplo, n int, a []float64, lda int, w, work []float64,
lwork int) (ok bool) {
 switch {
 case jobz != lapack.EVNone && jobz != lapack.EVCompute:
  panic(badEVJob)
 case uplo != blas.Upper && uplo != blas.Lower:
  panic(badUplo)
 case n < 0:
  panic(nLT0)
 case lda < max(1, n):
  panic(badLdA)
 case lwork < max(1, 3*n-1) && lwork != -1:
```

```
 panic(badLWork)
case len(work) < max(1, lwork):
 panic(shortWork)
}

// Quick return if possible.
if n == 0 {
 return true
}

var opts string
if uplo == blas.Upper {
 opts = "U"
} else {
 opts = "L"
}
nb := impl.Ilaenv(1, "DSYTRD", opts, n, -1, -1, -1)
lworkopt := max(1, (nb+2)*n)
if lwork == -1 {
 work[0] = float64(lworkopt)
 return
}

switch {
case len(a) < (n-1)*lda+n:
 panic(shortA)
case len(w) < n:
 panic(shortW)
}

if n == 1 {
 w[0] = a[0]
 work[0]
= 2
 if jobz == lapack.EVCompute {
  a[0] = 1
 }
 return true
}

safmin := dlamchS
eps := dlamchP
smlnum := safmin / eps
bignum := 1 / smlnum
rmin := math.Sqrt(smlnum)
rmax := math.Sqrt(bignum)

// Scale matrix to allowable range, if necessary.
```

```
anrm := impl.Dlansy(lapack.MaxAbs, uplo, n, a, lda, work)
scaled := false
var sigma float64
if anrm > 0 && anrm < rmin {
 scaled = true
 sigma = rmin / anrm
} else if anrm > rmax {
 scaled = true
 sigma = rmax / anrm
}
if scaled {
 kind := lapack.LowerTri
 if uplo == blas.Upper {
  kind = lapack.UpperTri
 }
 impl.Dlascl(kind, 0, 0, 1, sigma, n, n, a, lda)
}
var inde int
indtau := inde + n
indwork := indtau + n
llwork := lwork - indwork
impl.Dsytrd(uplo, n, a, lda, w, work[inde:], work[indtau:], work[indwork:], llwork)

// For eigenvalues only, call Dsterf. For eigenvectors, first call Dorgtr
// to generate the orthogonal matrix, then call Dsteqr.
if jobz == lapack.EVNone {
 ok = impl.Dsterf(n, w, work[inde:])
}
else {
 impl.Dorgtr(uplo, n, a, lda, work[indtau:], work[indwork:], llwork)
 ok = impl.Dsteqr(lapack.EVComp(jobz), n, w, work[inde:], a, lda, work[indtau:])
}
if !ok {
 return false
}

// If the matrix was scaled, then rescale eigenvalues appropriately.
if scaled {
 bi := blas64.Implementation()
 bi.Dscal(n, 1/sigma, w, 1)
}
work[0] = float64(lworkopt)
return true
}
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// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.
```

```
package gonum

import "math"

// Dlaqr1 sets v to a scalar multiple of the first column of the product
//  (H - (sr1 + i*si1)*I)*(H - (sr2 + i*si2)*I)
// where H is a 22 or 33 matrix, I is the identity matrix of the same size,
// and i is the imaginary unit. Scaling is done to avoid overflows and most
// underflows.
//
// n is the order of H and must be either 2 or 3. It must hold that either sr1 =
// sr2 and si1 = -si2, or si1 = si2 = 0. The length of v must be equal to n. If
// any of these conditions is not met, Dlaqr1 will panic.
//
// Dlaqr1 is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dlaqr1(n int, h []float64, ldh int, sr1, si1, sr2, si2 float64, v []float64) {
 switch {
 case n != 2 && n != 3:
  panic("lapack: n must be 2 or 3")
 case ldh < n:
  panic(badLdH)
 case len(h) < (n-1)*ldh+n:
  panic(shortH)
 case
 !((sr1 == sr2 && si1 == -si2) || (si1 == 0 && si2 == 0)):
  panic(badShifts)
 case len(v) != n:
  panic(shortV)
 }

 if n == 2 {
  s := math.Abs(h[0]-sr2) + math.Abs(si2) + math.Abs(h[ldh])
  if s == 0 {
   v[0] = 0
   v[1] = 0
  } else {
   h21s := h[ldh] / s
   v[0] = h21s*h[1] + (h[0]-sr1)*((h[0]-sr2)/s) - si1*(si2/s)
   v[1] = h21s * (h[0] + h[ldh+1] - sr1 - sr2)
  }
  return
 }

 s := math.Abs(h[0]-sr2) + math.Abs(si2) + math.Abs(h[ldh]) + math.Abs(h[2*ldh])
 if s == 0 {
  v[0] = 0
  v[1] = 0
  v[2] = 0
```

```
 } else {
  h21s := h[ldh] / s
  h31s := h[2*ldh] / s
  v[0] = (h[0]-sr1)*((h[0]-sr2)/s) - si1*(si2/s) + h[1]*h21s + h[2]*h31s
  v[1] = h21s*(h[0]+h[ldh+1]-sr1-sr2) + h[ldh+2]*h31s
  v[2] = h31s*(h[0]+h[2*ldh+2]-sr1-sr2) + h21s*h[2*ldh+1]
 }
}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

package unit

import (
 "fmt"
 "testing"
)

func TestMagneticFluxDensityFormat(t *testing.T) {
 for _, test := range []struct {
  value  MagneticFluxDensity
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 T"},
  {1.23456789, "%.1v", "1 T"},
  {1.23456789, "%20.1v", "                 1 T"},
  {1.23456789, "%20v", "        1.23456789 T"},
  {1.23456789, "%1v", "1.23456789 T"},
  {1.23456789, "%#v", "unit.MagneticFluxDensity(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.MagneticFluxDensity=1.23456789 T)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
graph{{{Di6}{Di6{{{Di6}{Di6}DiW}{DiW}}}}}
*> \brief \b DCOPY
*
*  =========== DOCUMENTATION ===========
*
* Online html documentation available at
*            http://www.netlib.org/lapack/explore-html/
```

```
*
*  Definition:
*  ===========
*
*      SUBROUTINE DCOPY(N,DX,INCX,DY,INCY)
*
*      .. Scalar Arguments ..
*      INTEGER INCX,INCY,N
*      ..
*      .. Array Arguments ..
*      DOUBLE PRECISION DX(*),DY(*)
*      ..
*
*
*> \par Purpose:
*  =============
*>
*> \verbatim
*>
*>    DCOPY copies a vector, x, to a vector, y.
*>    uses unrolled loops for increments equal to one.
*> \endverbatim
*
*  Authors:
*  ========
*
*> \author Univ. of Tennessee
*> \author Univ. of California Berkeley
*> \author Univ. of Colorado Denver
*> \author NAG Ltd.
*
*> \date November 2011
*
*> \ingroup double_blas_level1
*
*> \par Further Details:
*  =====================
*>
*> \verbatim
*>
*>     jack dongarra, linpack, 3/11/78.
*>     modified 12/3/93, array(1) declarations changed to array(*)
*> \endverbatim
*>
*  =====================================================================
      SUBROUTINE DCOPY(N,DX,INCX,DY,INCY)
*
*  -- Reference BLAS level1 routine (version 3.4.0) --
```

```
*  -- Reference BLAS is a software package provided by Univ. of Tennessee,    --
*  -- Univ. of California Berkeley, Univ. of Colorado Denver and NAG Ltd..--
*     November 2011
*
*     .. Scalar Arguments ..
      INTEGER INCX,INCY,N
*     ..
*     .. Array Arguments ..
      DOUBLE PRECISION DX(*),DY(*)
*     ..
*
*  =====================================================================
*
*     .. Local Scalars ..
      INTEGER I,IX,IY,M,MP1
*     ..
*     .. Intrinsic Functions ..
      INTRINSIC MOD
*     ..
      IF (N.LE.0) RETURN
      IF (INCX.EQ.1 .AND. INCY.EQ.1) THEN
*
*       code for both increments equal to 1
*
*
*       clean-up loop
*
        M = MOD(N,7)
        IF (M.NE.0) THEN
          DO I = 1,M
            DY(I) = DX(I)
          END DO
          IF (N.LT.7) RETURN
        END IF
        MP1 = M
 + 1
        DO I = MP1,N,7
          DY(I) = DX(I)
          DY(I+1) = DX(I+1)
          DY(I+2) = DX(I+2)
          DY(I+3) = DX(I+3)
          DY(I+4) = DX(I+4)
          DY(I+5) = DX(I+5)
          DY(I+6) = DX(I+6)
        END DO
      ELSE
*
*       code for unequal increments or equal increments
```

```
*         not equal to 1
*
      IX = 1
      IY = 1
      IF (INCX.LT.0) IX = (-N+1)*INCX + 1
      IF (INCY.LT.0) IY = (-N+1)*INCY + 1
      DO I = 1,N
        DY(IY) = DX(IX)
        IX = IX + INCX
        IY = IY + INCY
      END DO
    END IF
    RETURN
    END
// Copyright 2015 The Gonum Authors. All rights reserved.
// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

package testlapack

import (
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
 "gonum.org/v1/gonum/floats"
)

type Dgelser interface {
 Dgels(trans blas.Transpose, m, n, nrhs int, a []float64, lda int, b []float64, ldb int, work []float64, lwork int) bool
}

func DgelsTest(t *testing.T, impl Dgelser) {
 rnd := rand.New(rand.NewSource(1))
 for _, trans := range []blas.Transpose{blas.NoTrans, blas.Trans} {
  for _, test := range []struct {
   m, n, nrhs, lda, ldb int
  }{
   {3, 4, 5, 0, 0},
   {3, 5, 4, 0, 0},
   {4, 3, 5, 0, 0},
   {4, 5, 3, 0, 0},
   {5, 3, 4, 0, 0},
   {5, 4, 3, 0, 0},
   {3, 4, 5, 10, 20},
   {3, 5, 4, 10, 20},
```

```
 {4, 3, 5, 10, 20},
 {4, 5, 3, 10, 20},
 {5, 3, 4, 10, 20},
 {5, 4, 3, 10, 20},
 {3, 4, 5, 20, 10},
 {3, 5, 4, 20, 10},
 {4, 3, 5, 20,
10},
 {4, 5, 3, 20, 10},
 {5, 3, 4, 20, 10},
 {5, 4, 3, 20, 10},
 {200, 300, 400, 0, 0},
 {200, 400, 300, 0, 0},
 {300, 200, 400, 0, 0},
 {300, 400, 200, 0, 0},
 {400, 200, 300, 0, 0},
 {400, 300, 200, 0, 0},
 {200, 300, 400, 500, 600},
 {200, 400, 300, 500, 600},
 {300, 200, 400, 500, 600},
 {300, 400, 200, 500, 600},
 {400, 200, 300, 500, 600},
 {400, 300, 200, 500, 600},
 {200, 300, 400, 600, 500},
 {200, 400, 300, 600, 500},
 {300, 200, 400, 600, 500},
 {300, 400, 200, 600, 500},
 {400, 200, 300, 600, 500},
 {400, 300, 200, 600, 500},
} {
 m := test.m
 n := test.n
 nrhs := test.nrhs

 lda := test.lda
 if lda == 0 {
  lda = n
 }
 a := make([]float64, m*lda)
 for i := range a {
  a[i] = rnd.Float64()
 }
 aCopy := make([]float64, len(a))
 copy(aCopy, a)

 // Size of b is the same trans or no trans, because the number of rows
 // has to be the max of (m,n).
 mb := max(m, n)
```

```
nb := nrhs
ldb := test.ldb
if
ldb == 0 {
 ldb = nb
}
b := make([]float64, mb*ldb)
for i := range b {
 b[i] = rnd.Float64()
}
bCopy := make([]float64, len(b))
copy(bCopy, b)

// Find optimal work length.
work := make([]float64, 1)
impl.Dgels(trans, m, n, nrhs, a, lda, b, ldb, work, -1)

// Perform linear solve
work = make([]float64, int(work[0]))
lwork := len(work)
for i := range work {
 work[i] = rnd.Float64()
}
impl.Dgels(trans, m, n, nrhs, a, lda, b, ldb, work, lwork)

// Check that the answer is correct by comparing to the normal equations.
aMat := blas64.General{
 Rows:   m,
 Cols:   n,
 Stride: lda,
 Data:   make([]float64, len(aCopy)),
}
copy(aMat.Data, aCopy)
szAta := n
if trans == blas.Trans {
 szAta = m
}
aTA := blas64.General{
 Rows:   szAta,
 Cols:   szAta,
 Stride: szAta,
 Data:   make([]float64, szAta*szAta),
}

// Compute A * A if notrans and A * A otherwise.
if trans == blas.NoTrans {
 blas64.Gemm(blas.Trans,
```

```
blas.NoTrans, 1, aMat, aMat, 0, aTA)
 } else {
  blas64.Gemm(blas.NoTrans, blas.Trans, 1, aMat, aMat, 0, aTA)
 }

 // Multiply by X.
 X := blas64.General{
  Rows:   szAta,
  Cols:   nrhs,
  Stride: ldb,
  Data:   b,
 }
 ans := blas64.General{
  Rows:   aTA.Rows,
  Cols:   X.Cols,
  Stride: X.Cols,
  Data:   make([]float64, aTA.Rows*X.Cols),
 }
 blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, aTA, X, 0, ans)

 B := blas64.General{
  Rows:   szAta,
  Cols:   nrhs,
  Stride: ldb,
  Data:   make([]float64, len(bCopy)),
 }

 copy(B.Data, bCopy)
 var ans2 blas64.General
 if trans == blas.NoTrans {
  ans2 = blas64.General{
   Rows:   aMat.Cols,
   Cols:   B.Cols,
   Stride: B.Cols,
   Data:   make([]float64, aMat.Cols*B.Cols),
  }
 } else {
  ans2 = blas64.General{
   Rows:   aMat.Rows,
   Cols:   B.Cols,
   Stride: B.Cols,
   Data:   make([]float64, aMat.Rows*B.Cols),
  }
 }

 // Compute A
B if Trans or A * B otherwise
 if trans == blas.NoTrans {
```

```
    blas64.Gemm(blas.Trans, blas.NoTrans, 1, aMat, B, 0, ans2)
   } else {
    blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, aMat, B, 0, ans2)
   }
   if !floats.EqualApprox(ans.Data, ans2.Data, 1e-12) {
    t.Errorf("Normal equations not satisfied")
   }
  }
 }
}
graph{{{DIG}DIG}{DIG}}
graph{<R><T><T><R><T><T><T><R><T><T><R><R><T><T><R><R><T><T><R>}
graph{{{DIGR1}{DIGR1}DIGR1}}
graph{SubGE{{SubGE{{SubGZ}SubGE{SubGZ}SubGS}SubGE{SubGZ}SubGZ}}}
graph{{{{{subGra{{subGrax}}subGra}subGrax}}subGra}}}
Graph{{{subr}{subu}subr}{subu}{subu}}
graph{{SUBB{SUBB}}}
graph{Dir{Dir}}
graph n1{n1}
graph{""[diGr_=""]diGr_}
graph{{subGra}}
graph{digra_}
graph{Stric{Stricc{Strica-9Strica-9Strica-9Strica-9Strica-9Strica-9Strica-9Stric}Strica-9Strica-9Strica-9Strica-
9Strica-9Strica-9Stric}}
graph{{{{subGr}subGr{subGr}{subGr}subGr}{subGr}subGr{subGr}{subGr}subGr}}
graph{SU{SU{SU}SU}}
graph G {
 A
}
graph{{{{STRIr{{STRIr{STRIh{{{{STRIr{STRIr}}STRIr}}}}}{{{{STRIr{STRIr}}STRIr}}}}}STRIr}}}
Graph{{Subgr_}}
graph{{digrap3}digrap4{digrap4}}
// Copyright 2019 The Gonum Authors. All rights reserved.
// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

package testlapack

import (
 "fmt"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
)
```

```
type Dpotrier interface {
 Dpotri(uplo blas.Uplo, n int, a []float64, lda int) bool

 Dpotrf(uplo blas.Uplo, n int, a []float64, lda int) bool
}

func DpotriTest(t *testing.T, impl Dpotrier) {
 for _, uplo := range []blas.Uplo{blas.Upper, blas.Lower} {
  name := "Upper"
  if uplo == blas.Lower {
   name = "Lower"
  }
  t.Run(name, func(t *testing.T) {
   // Include small and large sizes to make sure that both
   // unblocked and blocked paths are taken.
   ns := []int{0, 1, 2, 3, 4, 5, 10, 25, 31, 32, 33, 63, 64, 65, 127, 128, 129}
   const tol = 1e-12

   bi := blas64.Implementation()
   rnd := rand.New(rand.NewSource(1))
   for _, n := range ns {
    for _, lda := range []int{max(1, n), n
 + 11} {
     prefix := fmt.Sprintf("n=%v,lda=%v", n, lda)

     // Generate a random diagonal matrix D with positive entries.
     d := make([]float64, n)
     Dlatm1(d, 3, 10000, false, 2, rnd)

     // Construct a positive definite matrix A as
     //  A = U * D * U
     // where U is a random orthogonal matrix.
     a := make([]float64, n*lda)
     Dlagsy(n, 0, d, a, lda, rnd, make([]float64, 2*n))
     // Create a copy of A.
     aCopy := make([]float64, len(a))
     copy(aCopy, a)
     // Compute the Cholesky factorization of A.
     ok := impl.Dpotrf(uplo, n, a, lda)
     if !ok {
      t.Fatalf("%v: unexpected Cholesky failure", prefix)
     }

     // Compute the inverse inv(A).
     ok = impl.Dpotri(uplo, n, a, lda)
     if !ok {
      t.Errorf("%v: unexpected failure", prefix)
      continue
```

```
    }

    // Check that the triangle of A opposite to uplo has not been modified.
    if uplo == blas.Upper && !sameLowerTri(n, aCopy, lda, a, lda) {
     t.Errorf("%v: unexpected modification
in lower triangle", prefix)
     continue
    }
    if uplo == blas.Lower && !sameUpperTri(n, aCopy, lda, a, lda) {
     t.Errorf("%v: unexpected modification in upper triangle", prefix)
     continue
    }

    // Change notation for the sake of clarity.
    ainv := a
    ldainv := lda

    // Expand ainv into a full dense matrix so that we can call Dsymm below.
    if uplo == blas.Upper {
     for i := 1; i < n; i++ {
      for j := 0; j < i; j++ {
       ainv[i*ldainv+j] = ainv[j*ldainv+i]
      }
     }
    } else {
     for i := 0; i < n-1; i++ {
      for j := i + 1; j < n; j++ {
       ainv[i*ldainv+j] = ainv[j*ldainv+i]
      }
     }
    }

    // Compute A*inv(A) and store the result into want.
    ldwant := max(1, n)
    want := make([]float64, n*ldwant)
    bi.Dsymm(blas.Left, uplo, n, n, 1, aCopy, lda, ainv, ldainv, 0, want, ldwant)

    // Check that want is close to the identity matrix.
    dist := distFromIdentity(n, want, ldwant)
    if
dist > tol {
     t.Errorf("%v: |A * inv(A) - I| = %v is too large", prefix, dist)
    }
   }
  }
 })
}
}
```

```
graph{<TTDTTDDTT>}
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// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

// This is a translation of the FFTPACK sint functions by
// Paul N Swarztrauber, placed in the public domain at
// http://www.netlib.org/fftpack/.

package fftpack

import "math"

// Sinti initializes the array work which is used in subroutine Sint.
// The prime factorization of n together with a tabulation of the
// trigonometric functions are computed and stored in work.
//
// Input parameter
//
// n       The length of the sequence to be transformed. The method
//         is most efficient when n+1 is a product of small primes.
//
// Output parameter
//
// work    A work array with at least ceil(2.5*n) locations.
//         Different work arrays are required for different values
//         of n. The contents of work must not be changed between
//         calls of Sint.
//
// ifac    An integer work array of length at least
 15.
func Sinti(n int, work []float64, ifac []int) {
 if len(work) < 5*(n+1)/2 {
  panic("fourier: short work")
 }
 if len(ifac) < 15 {
  panic("fourier: short ifac")
 }
 if n <= 1 {
  return
 }
 dt := math.Pi / float64(n+1)
 for k := 0; k < n/2; k++ {
  work[k] = 2 * math.Sin(float64(k+1)*dt)
 }
 Rffti(n+1, work[n/2:], ifac)
}
```

```
// Sint computes the Discrete Fourier Sine Transform of an odd
// sequence x(i). The transform is defined below at output parameter x.
//
// Sint is the unnormalized inverse of itself since a call of Sint
// followed by another call of Sint will multiply the input sequence
// x by 2*(n+1).
//
// The array work which is used by subroutine Sint must be
// initialized by calling subroutine Sinti(n,work).
//
// Input parameters
//
// n       The length of the sequence to be transformed. The method
//         is most efficient when n+1 is the product of small primes.
//
// x       An array which contains the sequence to be transformed.
//
//
// work    A work array
 with dimension at least ceil(2.5*n)
//         in the program that calls Sint. The work array must be
//         initialized by calling subroutine Sinti(n,work) and a
//         different work array must be used for each different
//         value of n. This initialization does not have to be
//         repeated so long as n remains unchanged thus subsequent
//         transforms can be obtained faster than the first.
//
// ifac    An integer work array of length at least 15.
//
// Output parameters
//
// x       for i=1,...,n
//           x(i)= the sum from k=1 to k=n
//             2*x(k)*sin(k*i*pi/(n+1))
//
//         A call of Sint followed by another call of
//         Sint will multiply the sequence x by 2*(n+1).
//         Hence Sint is the unnormalized inverse
//         of itself.
//
// work    Contains initialization calculations which must not be
//         destroyed between calls of Sint.
// ifac    Contains initialization calculations which must not be
//         destroyed
 between calls of Sint.
func Sint(n int, x, work []float64, ifac []int) {
 if len(x) < n {
  panic("fourier: short sequence")
```

```
 }
 if len(work) < 5*(n+1)/2 {
  panic("fourier: short work")
 }
 if len(ifac) < 15 {
  panic("fourier: short ifac")
 }
 if n == 0 {
  return
 }
 sint1(n, x, work, work[n/2:], work[n/2+n+1:], ifac)
}

func sint1(n int, war, was, xh, x []float64, ifac []int) {
 const sqrt3 = 1.73205080756888

 for i := 0; i < n; i++ {
  xh[i] = war[i]
  war[i] = x[i]
 }

 switch n {
 case 1:
  xh[0] *= 2
 case 2:
  xh[0], xh[1] = sqrt3*(xh[0]+xh[1]), sqrt3*(xh[0]-xh[1])
 default:
  x[0] = 0
  for k := 0; k < n/2; k++ {
   kc := n - k - 1
   t1 := xh[k] - xh[kc]
   t2 := was[k] * (xh[k] + xh[kc])
   x[k+1] = t1 + t2
   x[kc+1] = t2 - t1
  }
  if n%2 != 0 {
   x[n/2+1] = 4 * xh[n/2]
  }
  rfftf1(n+1, x, xh, war, ifac)
  xh[0] = 0.5 * x[0]
  for i := 2; i < n; i += 2 {
   xh[i-1] = -x[i]
   xh[i] = xh[i-2] + x[i-1]
  }
  if n%2 == 0 {
   xh[n-1] = -x[n]
  }
 }
```

```
 for i := 0; i < n;
 i++ {
  x[i] = war[i]
  war[i] = xh[i]
 }
}
graph{Dir{Dir{Dir}Dir}}
graph<<=><=>>{{<<=><=>>}}
graph{{"\{"{"\{"{"\{"}"\d""\d"}}"\d"}
*> \brief \b DLACPY copies all or part of one two-dimensional array to another.
*
*  =========== DOCUMENTATION ===========
*
* Online html documentation available at
*            http://www.netlib.org/lapack/explore-html/
*
*> \htmlonly
*> Download DLACPY + dependencies
*> <a href="http://www.netlib.org/cgi-bin/netlibfiles.tgz?format=tgz&filename=/lapack/lapack_routine/dlacpy.f">
*> [TGZ]</a>
*> <a href="http://www.netlib.org/cgi-bin/netlibfiles.zip?format=zip&filename=/lapack/lapack_routine/dlacpy.f">
*> [ZIP]</a>
*> <a href="http://www.netlib.org/cgi-bin/netlibfiles.txt?format=txt&filename=/lapack/lapack_routine/dlacpy.f">
*> [TXT]</a>
*> \endhtmlonly
*
*  Definition:
*  ===========
*
*       SUBROUTINE DLACPY( UPLO, M, N, A, LDA, B, LDB )
*
*       .. Scalar Arguments ..
*       CHARACTER          UPLO
*       INTEGER            LDA, LDB, M, N
*       ..
*       .. Array Arguments ..
*       DOUBLE PRECISION   A( LDA, * ), B( LDB, * )
*       ..
*
*
*> \par Purpose:
*  =============
*>
*>
 \verbatim
*>
*> DLACPY copies all or part of a two-dimensional matrix A to another
```

```
*> matrix B.
*> \endverbatim
*
*  Arguments:
*  ==========
*
*> \param[in] UPLO
*> \verbatim
*>          UPLO is CHARACTER*1
*>          Specifies the part of the matrix A to be copied to B.
*>          = 'U':      Upper triangular part
*>          = 'L':      Lower triangular part
*>          Otherwise:  All of the matrix A
*> \endverbatim
*>
*> \param[in] M
*> \verbatim
*>          M is INTEGER
*>          The number of rows of the matrix A.  M >= 0.
*> \endverbatim
*>
*> \param[in] N
*> \verbatim
*>          N is INTEGER
*>          The number of columns of the matrix A.  N >= 0.
*> \endverbatim
*>
*> \param[in] A
*> \verbatim
*>          A is DOUBLE PRECISION array, dimension (LDA,N)
*>          The m by n matrix A.  If UPLO = 'U', only the upper triangle
*>          or trapezoid is accessed; if UPLO = 'L', only the lower
*>          triangle or trapezoid is accessed.
*> \endverbatim
*>
*>
 \param[in] LDA
*> \verbatim
*>          LDA is INTEGER
*>          The leading dimension of the array A.  LDA >= max(1,M).
*> \endverbatim
*>
*> \param[out] B
*> \verbatim
*>          B is DOUBLE PRECISION array, dimension (LDB,N)
*>          On exit, B = A in the locations specified by UPLO.
*> \endverbatim
*>
```

```
*> \param[in] LDB
*> \verbatim
*>          LDB is INTEGER
*>          The leading dimension of the array B.  LDB >= max(1,M).
*> \endverbatim
*
*  Authors:
*  ========
*
*> \author Univ. of Tennessee
*> \author Univ. of California Berkeley
*> \author Univ. of Colorado Denver
*> \author NAG Ltd.
*
*> \date September 2012
*
*> \ingroup auxOTHERauxiliary
*
*  =====================================================================
      SUBROUTINE DLACPY( UPLO, M, N, A, LDA, B, LDB )
*
*  -- LAPACK auxiliary routine (version 3.4.2) --
*  -- LAPACK is a software package provided by Univ. of Tennessee,    --
*  -- Univ. of California Berkeley, Univ. of Colorado Denver and NAG
 Ltd..--
*     September 2012
*
*     .. Scalar Arguments ..
      CHARACTER          UPLO
      INTEGER            LDA, LDB, M, N
*     ..
*     .. Array Arguments ..
      DOUBLE PRECISION   A( LDA, * ), B( LDB, * )
*     ..
*
*  =====================================================================
*
*     .. Local Scalars ..
      INTEGER            I, J
*     ..
*     .. External Functions ..
      LOGICAL            LSAME
      EXTERNAL           LSAME
*     ..
*     .. Intrinsic Functions ..
      INTRINSIC          MIN
*     ..
*     .. Executable Statements ..
```

```
*
      IF( LSAME( UPLO, 'U' ) ) THEN
         DO 20 J = 1, N
            DO 10 I = 1, MIN( J, M )
               B( I, J ) = A( I, J )
   10       CONTINUE
   20    CONTINUE
      ELSE IF( LSAME( UPLO, 'L' ) ) THEN
         DO 40 J = 1, N
            DO 30 I = J, M
               B( I, J ) = A( I, J )
   30       CONTINUE
   40    CONTINUE
      ELSE
         DO 60 J = 1, N
            DO 50 I = 1, M
               B( I,
 J ) = A( I, J )
   50       CONTINUE
   60    CONTINUE
      END IF
      RETURN
*
*     End of DLACPY
*
      END
graph{digz{{digu}}digz{{{digu}}digz}}
graph{strih{strih{strih{{strih{strih{strii}}}}}}}
graph{Gs{Gy}Gs{Gt}Gs{Gt}Gs{Gy}Gs{Gt}}
graph{{{{edgeg}}edgeg}}
graph{{SUBGRAPG}}
graph{w:w:w K:w w:w w:w K:w w:w w:w w:w K:w w:w K:w w:w w:w K:w w:w w:w w:K}
graph{{subGrG}}
graph{{ed_{ed_}ed_}ed_}
graph{{DiG_}{DiG_}{DiG_}}
graph{{{DIG}}}
graph{{graph_}}
graph{{{{{Subgrap_}{Subgrap_}}}}}
graph{"\\\\\\3"{"\\\\\\\\\\\\3"}}
// Copyright 2015 The Gonum Authors. All rights reserved.
// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

package linear

import (
 "gonum.org/v1/gonum/graph"
)
```

```
// NodeStack implements a LIFO stack of graph.Node.
type NodeStack []graph.Node

// Len returns the number of graph.Nodes on the stack.
func (s *NodeStack) Len() int { return len(*s) }

// Pop returns the last graph.Node on the stack and removes it
// from the stack.
func (s *NodeStack) Pop() graph.Node {
 v := *s
 v, n := v[:len(v)-1], v[len(v)-1]
 *s = v
 return n
}

// Push adds the node n to the stack at the last position.
func (s *NodeStack) Push(n graph.Node) { *s = append(*s, n) }

// NodeQueue implements a FIFO queue.
type NodeQueue struct {
 head int
 data []graph.Node
}

// Len returns the number of graph.Nodes in the queue.
func (q *NodeQueue) Len() int { return len(q.data) - q.head }

// Enqueue adds the node n to the back of the queue.
func (q *NodeQueue) Enqueue(n
 graph.Node) {
 if len(q.data) == cap(q.data) && q.head > 0 {
  l := q.Len()
  copy(q.data, q.data[q.head:])
  q.head = 0
  q.data = append(q.data[:l], n)
 } else {
  q.data = append(q.data, n)
 }
}

// Dequeue returns the graph.Node at the front of the queue and
// removes it from the queue.
func (q *NodeQueue) Dequeue() graph.Node {
 if q.Len() == 0 {
  panic("queue: empty queue")
 }
```

```
 var n graph.Node
 n, q.data[q.head] = q.data[q.head], nil
 q.head++

 if q.Len() == 0 {
  q.head = 0
  q.data = q.data[:0]
 }

 return n
}

// Reset clears the queue for reuse.
func (q *NodeQueue) Reset() {
 q.head = 0
 q.data = q.data[:0]
}
digraph{el
el}
graph{{STRE}STRE}
/** * * * * * * * * * */graph""{e[e=""l=""e=""h=""t=""r=""][r=""]/**/""--""--""--""--""[r=""n=6]""--
""[r=""t=""]""--""[r=""t=""]""--""[r=""t=""]""--""[r=""t=""]""--""[r=""t=""]""--""--""--""--""}
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// license that can be found in the LICENSE file.

package testlapack

import (
 "fmt"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
 "gonum.org/v1/gonum/lapack"
)

type Dgebaker interface {
 Dgebak(job lapack.BalanceJob, side lapack.EVSide, n, ilo, ihi int, scale []float64, m int, v []float64, ldv int)
}

func DgebakTest(t *testing.T, impl Dgebaker) {
 rnd := rand.New(rand.NewSource(1))

 for _, job := range []lapack.BalanceJob{lapack.BalanceNone, lapack.Permute, lapack.Scale, lapack.PermuteScale} {
  for _, side := range []lapack.EVSide{lapack.EVLeft, lapack.EVRight} {
```

```
  for _, n := range []int{0, 1, 2, 3, 4, 5, 6, 10, 18, 31, 53} {
   for _, extra := range []int{0, 11} {
    for cas := 0; cas < 100; cas++ {
     m := rnd.Intn(n + 1)
     v := randomGeneral(n, m, m+extra, rnd)
     var ilo, ihi int
     if v.Rows >
 0 {
      ihi = rnd.Intn(n)
      ilo = rnd.Intn(ihi + 1)
     } else {
      ihi = -1
     }
     testDgebak(t, impl, job, side, ilo, ihi, v, rnd)
    }
   }
  }
 }
}
}

func testDgebak(t *testing.T, impl Dgebaker, job lapack.BalanceJob, side lapack.EVSide, ilo, ihi int, v
blas64.General, rnd *rand.Rand) {
 const tol = 1e-15
 n := v.Rows
 m := v.Cols
 extra := v.Stride - v.Cols

 // Create D and D^{-1} by generating random scales between ilo and ihi.
 d := eye(n, n)
 dinv := eye(n, n)
 scale := nanSlice(n)
 if job == lapack.Scale || job == lapack.PermuteScale {
  if ilo == ihi {
   scale[ilo] = 1
  } else {
   for i := ilo; i <= ihi; i++ {
    scale[i] = 2 * rnd.Float64()
    d.Data[i*d.Stride+i] = scale[i]
    dinv.Data[i*dinv.Stride+i] = 1 / scale[i]
   }
  }
 }

 // Create P by generating random column swaps.
 p := eye(n, n)
 if job == lapack.Permute || job == lapack.PermuteScale {
  // Make up some random permutations.
```

```
 for i := n - 1; i > ihi; i-- {
  scale[i] = float64(rnd.Intn(i
+ 1))
  blas64.Swap(blas64.Vector{N: n, Data: p.Data[i:], Inc: p.Stride},
   blas64.Vector{N: n, Data: p.Data[int(scale[i]):], Inc: p.Stride})
 }
 for i := 0; i < ilo; i++ {
  scale[i] = float64(i + rnd.Intn(ihi-i+1))
  blas64.Swap(blas64.Vector{N: n, Data: p.Data[i:], Inc: p.Stride},
   blas64.Vector{N: n, Data: p.Data[int(scale[i]):], Inc: p.Stride})
 }
}

got := cloneGeneral(v)
impl.Dgebak(job, side, n, ilo, ihi, scale, m, got.Data, got.Stride)

prefix := fmt.Sprintf("Case job=%v, side=%v, n=%v, ilo=%v, ihi=%v, m=%v, extra=%v",
 job, side, n, ilo, ihi, m, extra)

if !generalOutsideAllNaN(got) {
 t.Errorf("%v: out-of-range write to V\n%v", prefix, got.Data)
}

// Compute D*V or D^{-1}*V and store into dv.
dv := zeros(n, m, m)
if side == lapack.EVRight {
 blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, d, v, 0, dv)
} else {
 blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, dinv, v, 0, dv)
}
// Compute P*D*V or P*D^{-1}*V and store into want.
want := zeros(n,
m, m)
blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, p, dv, 0, want)

if !equalApproxGeneral(want, got, tol) {
 t.Errorf("%v: unexpected value of V", prefix)
}
}
graph{digra_{digra_}}
graph{{GRAPA GRAPG}}
graph{{Dig_}Dig_{Dig_}Dig_{Dig_}}
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package integrate
```

```
import (
 "math"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/integrate/testquad"
)

func TestTrapezoidal(t *testing.T) {
 rnd := rand.New(rand.NewSource(1))
 for i, test := range []struct {
  integral testquad.Integral
  n        int
  tol      float64
 }{
  {integral: testquad.Constant(0), n: 2, tol: 0},
  {integral: testquad.Constant(0), n: 10, tol: 0},
  {integral: testquad.Poly(0), n: 2, tol: 1e-14},
  {integral: testquad.Poly(0), n: 10, tol: 1e-14},
  {integral: testquad.Poly(1), n: 2, tol: 1e-14},
  {integral: testquad.Poly(1), n: 10, tol: 1e-14},
  {integral: testquad.Poly(2), n: 1e5, tol: 1e-8},
  {integral: testquad.Poly(3), n: 1e5, tol: 1e-8},
  {integral: testquad.Poly(4), n: 1e5, tol: 1e-7},
  {integral: testquad.Poly(5), n: 1e5, tol: 1e-7},
  {integral: testquad.Sin(), n: 1e5, tol:
 1e-11},
  {integral: testquad.XExpMinusX(), n: 1e5, tol: 1e-10},
  {integral: testquad.Sqrt(), n: 1e5, tol: 1e-8},
  {integral: testquad.ExpOverX2Plus1(), n: 1e5, tol: 1e-10},
 } {
  n := test.n
  a := test.integral.A
  b := test.integral.B

  x := jitterSpan(n, a, b, rnd)
  y := make([]float64, n)
  for i, xi := range x {
   y[i] = test.integral.F(xi)
  }

  got := Trapezoidal(x, y)

  want := test.integral.Value
  diff := math.Abs(got - want)
  if diff > test.tol {
   t.Errorf("Test #%d: %v, n=%v: unexpected result; got=%v want=%v diff=%v",
```

```
    i, test.integral.Name, n, got, want, diff)
  }
 }
}

func jitterSpan(n int, a, b float64, rnd *rand.Rand) []float64 {
 dx := (b - a) / float64(n-1)
 x := make([]float64, n)
 x[0] = a
 for i := 1; i < n-1; i++ {
  // Set x[i] to its regular location.
  x[i] = a + float64(i)*dx
  // Generate a random number in [-1,1).
  jitter := 2*rnd.Float64() - 1
  // Jitter x[i] without crossing over its neighbors.
  x[i] += 0.4 * jitter * dx
 }
 x[n-1] =
 b
 return x
}
graph{{sub_}{sub_}{sub_{sub_}{sub_}}}
graph{{STR}STR{STR}STR{STR}STR{STR}}
graph{{EDG}}
graph{"\I\_0_1RRcrqU_86JW_d_977_4__9y78_Ph_4n_j__4RAJdz_JiyF_\0\I\1\I\3\3\I\#\ur6u1_xS7_7__2_Yzs5EF
__RG02}}8}\I\3\I\#\I\
"}
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// Package samplemv implements advanced sampling routines from explicit and implicit
// probability distributions.
package samplemv // import "gonum.org/v1/gonum/stat/samplemv"
graph{G.08920985006261616945266723632812 5{{}{}}}
graph{{{digrap}digrap{digrap}}}
graph{{{{{e{}e}e}}}}
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package f32

// ScalUnitary is
//  for i := range x {
//   x[i] *= alpha
//  }
func ScalUnitary(alpha float32, x []float32) {
```

```
 for i := range x {
  x[i] *= alpha
 }
}

// ScalUnitaryTo is
//  for i, v := range x {
//   dst[i] = alpha * v
//  }
func ScalUnitaryTo(dst []float32, alpha float32, x []float32) {
 for i, v := range x {
  dst[i] = alpha * v
 }
}

// ScalInc is
//  var ix uintptr
//  for i := 0; i < int(n); i++ {
//   x[ix] *= alpha
//   ix += incX
//  }
func ScalInc(alpha float32, x []float32, n, incX uintptr) {
 var ix uintptr
 for i := 0; i < int(n); i++ {
  x[ix] *= alpha
  ix += incX
 }
}

// ScalIncTo is
//  var idst, ix uintptr
//  for i := 0; i < int(n); i++ {
//   dst[idst] = alpha * x[ix]
//   ix += incX
//   idst += incDst
//  }
func ScalIncTo(dst []float32, incDst uintptr, alpha float32, x []float32, n, incX
 uintptr) {
 var idst, ix uintptr
 for i := 0; i < int(n); i++ {
  dst[idst] = alpha * x[ix]
  ix += incX
  idst += incDst
 }
}
graph{{{noc}noc}noc}
graph{{{{die}die}die}}
```

[{
 "data": {
   "id": "n01",
   "type": "bezier"
 }
}, {
 "data": {
   "id": "n02"
 }
}, {
 "data": {
   "id": "e01",
   "source": "n01",
   "target": "n02"
 },
 "classes": "bezier"
}, {
 "data": {
   "id": "e02",
   "source": "n01",
   "target": "n02"
 },
 "classes": "bezier"
}, {
 "data": {
   "id": "e03",
   "source": "n02",
   "target": "n01"
 },
 "classes": "bezier"
}, {
 "data": {
   "id": "n03",
   "type": "unbundled-bezier"
 }
}, {
 "data": {
   "id": "n04"
 }
}, {
 "data": {
   "id": "e04",
   "source": "n03",
   "target": "n04"
 },
 "classes": "unbundled-bezier"
}, {
 "data": {

"id": "n05",
"type": "unbundled-bezier(multiple)"
}
}, {
"data": {
"id": "n06"
}
}, {
"data": {
"id": "e05",
"source": "n05",
"target": "n06"
},
"classes": "multi-unbundled-bezier"
}, {
"data": {
"id": "n07",
"type": "haystack"
}
}, {
"data": {
"id": "n08"
}
}, {
"data": {
"id": "e06",
"source": "n08",
"target": "n07"
},
"classes": "haystack"
}, {
"data": {
"id": "e07",
"source": "n08",
"target": "n07"
},
"classes": "haystack"
}, {
"data": {
"id": "e08",
"source": "n08",
"target": "n07"
},
"classes": "haystack"
}, {
"data": {
"id": "e09",
"source": "n08",

```
   "target": "n07"
 },
 "classes": "haystack"
}, {
 "data": {
   "id": "n09",
   "type": "segments"
 }
}, {
 "data": {
   "id": "n10"
 }
}, {
 "data": {
   "id": "e10",
   "source": "n09",
   "target": "n10"
 },
 "classes": "segments"
}]
```


graph{STRh}

graph{GRA{GRA}GRA}

graph{edg_{edg_{edg_{edg_}}edg_{edg_{edg_}}edg_}}

graph{{{subGG{}subGG}{subGG<>subGG}{{{}subGT}subGG}}subGG}

graph{{{DiD{{DiD}}}}}

graph{{{{{Gr4}}}Gr8}}

graph{{e}}

Graph{Edge[]{{Edge[]{{Edge[]{Edge[]}Edge[]}{Edge[]{Edge[]}Edge[]}Edge[]}}}}

```
      DOUBLE PRECISION FUNCTION MYATAN(A)
      DOUBLE PRECISION A
      MYATAN = DATAN(A)
      RETURN
      END
```


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```
package iterator_test

import (
 "reflect"
 "testing"

 "gonum.org/v1/gonum/graph"
 "gonum.org/v1/gonum/graph/iterator"
 "gonum.org/v1/gonum/graph/simple"
)
```

```
var orderedNodesTests = []struct {
 nodes []graph.Node
}{
 {nodes: nil},
 {nodes: []graph.Node{simple.Node(1)}},
 {nodes: []graph.Node{simple.Node(1), simple.Node(2), simple.Node(3), simple.Node(5)}},
 {nodes: []graph.Node{simple.Node(5), simple.Node(3), simple.Node(2), simple.Node(1)}},
}

func TestOrderedNodesIterate(t *testing.T) {
 for _, test := range orderedNodesTests {
  it := iterator.NewOrderedNodes(test.nodes)
  for i := 0; i < 2; i++ {
   if it.Len() != len(test.nodes) {
    t.Errorf("unexpected iterator length for round %d: got:%d want:%d", i, it.Len(), len(test.nodes))
   }
   var got []graph.Node
   for it.Next() {
    got = append(got, it.Node())
   }
   want
 := test.nodes
   if !reflect.DeepEqual(got, want) {
    t.Errorf("unexpected iterator output for round %d: got:%#v want:%#v", i, got, want)
   }
   it.Reset()
  }
 }
}

func TestOrderedNodesSlice(t *testing.T) {
 for _, test := range orderedNodesTests {
  it := iterator.NewOrderedNodes(test.nodes)
  for i := 0; i < 2; i++ {
   got := it.NodeSlice()
   want := test.nodes
   if !reflect.DeepEqual(got, want) {
    t.Errorf("unexpected iterator output for round %d: got:%#v want:%#v", i, got, want)
   }
   it.Reset()
  }
 }
}

var implicitNodesTests = []struct {
 beg, end int
 new      func(int) graph.Node
 want     []graph.Node
```

```
}{
 {
  beg: 1, end: 1,
  want: nil,
 },
 {
  beg: 1, end: 2,
  new:  newSimpleNode,
  want: []graph.Node{simple.Node(1)},
 },
 {
  beg: 1, end: 5,
  new:  newSimpleNode,
  want: []graph.Node{simple.Node(1), simple.Node(2), simple.Node(3), simple.Node(4)},
 },
}

func newSimpleNode(id int) graph.Node { return simple.Node(id) }

func TestImplicitNodesIterate(t *testing.T)
 {
 for _, test := range implicitNodesTests {
  it := iterator.NewImplicitNodes(test.beg, test.end, test.new)
  for i := 0; i < 2; i++ {
   if it.Len() != len(test.want) {
    t.Errorf("unexpected iterator length for round %d: got:%d want:%d", i, it.Len(), len(test.want))
   }
   var got []graph.Node
   for it.Next() {
    got = append(got, it.Node())
   }
   if !reflect.DeepEqual(got, test.want) {
    t.Errorf("unexpected iterator output for round %d: got:%#v want:%#v", i, got, test.want)
   }
   it.Reset()
  }
 }
}

var nodesTests = []struct {
 nodes map[int64]graph.Node
}{
 {nodes: nil},
 {nodes: make(map[int64]graph.Node)},
 {nodes: map[int64]graph.Node{1: simple.Node(1)}},
 {nodes: map[int64]graph.Node{1: simple.Node(1), 2: simple.Node(2), 3: simple.Node(3), 5: simple.Node(5)}},
 {nodes: map[int64]graph.Node{5: simple.Node(5), 3: simple.Node(3), 2: simple.Node(2), 1: simple.Node(1)}},
}
```

```
func TestNodesIterate(t *testing.T) {
 for _, test := range nodesTests {
  it := iterator.NewNodes(test.nodes)
  for
 i := 0; i < 2; i++ {
   if it.Len() != len(test.nodes) {
    t.Errorf("unexpected iterator length for round %d: got:%d want:%d", i, it.Len(), len(test.nodes))
   }
   var got map[int64]graph.Node
   if test.nodes != nil {
    got = make(map[int64]graph.Node)
   }
   for it.Next() {
    n := it.Node()
    got[n.ID()] = n
    if len(got)+it.Len() != len(test.nodes) {
     t.Errorf("unexpected iterator length during iteration for round %d: got:%d want:%d", i, it.Len(), len(test.nodes))
    }
   }
   want := test.nodes
   if !reflect.DeepEqual(got, want) {
    t.Errorf("unexpected iterator output for round %d: got:%#v want:%#v", i, got, want)
   }
   func() {
    defer func() {
     r := recover()
     if r != nil {
      t.Errorf("unexpected panic: %v", r)
     }
    }()
    it.Next()
   }()
   it.Reset()
  }
 }
}
graph{{Gr}}
graph{EDA{EDA{EDA}EDA}}
graph{{{digr}{digr{{{{{digr}{digr}digr{digr}{digr}digr}}}digr}}}}
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package mat_test

import (
 "fmt"
```

```
 "gonum.org/v1/gonum/mat"
)

func ExampleCol() {
 // This example copies the second column of a matrix into col, allocating a new slice of float64.
 m := mat.NewDense(3, 3, []float64{
  2.0, 9.0, 3.0,
  4.5, 6.7, 8.0,
  1.2, 3.0, 6.0,
 })

 col := mat.Col(nil, 1, m)

 fmt.Printf("col = %#v", col)
 // Output:
 //
 // col = []float64{9, 6.7, 3}
}

func ExampleRow() {
 // This example copies the third row of a matrix into row, allocating a new slice of float64.
 m := mat.NewDense(3, 3, []float64{
  2.0, 9.0, 3.0,
  4.5, 6.7, 8.0,
  1.2, 3.0, 6.0,
 })

 row := mat.Row(nil, 2, m)

 fmt.Printf("row = %#v", row)
 // Output:
 //
 // row = []float64{1.2, 3, 6}
}
graph{{No{No}No{No}{No}{No}}}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "fmt"
 "testing"
)
```

```
func TestTemperatureFormat(t *testing.T) {
 for _, test := range []struct {
  value  Temperature
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 K"},
  {1.23456789, "%.1v", "1 K"},
  {1.23456789, "%20.1v", "                 1 K"},
  {1.23456789, "%20v", "        1.23456789 K"},
  {1.23456789, "%1v", "1.23456789 K"},
  {1.23456789, "%#v", "unit.Temperature(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Temperature=1.23456789 K)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
graph{DIGRR{DIGRC{DIGRB}DIGRB}}
graph{{digra}}
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// Package dualcmplx provides the anti-commutative dual complex numeric
// type and functions.
//
// See https://arxiv.org/abs/1601.01754v1 for details.
package dualcmplx // imports "gonum.org/v1/gonum/num/dualcmplx"

// TODO(kortschak): Handle special cases properly.
//  - Pow
graph{NOA{NOA{NOA}NOA}}
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package kdtree

import "math"

var (
 _ Interface  = Points(nil)
 _ Comparable = Point(nil)
)
```

```
// Point represents a point in a k-d space that satisfies the Comparable interface.
type Point []float64

// Compare returns the signed distance of p from the plane passing through c and
// perpendicular to the dimension d. The concrete type of c must be Point.
func (p Point) Compare(c Comparable, d Dim) float64 { q := c.(Point); return p[d] - q[d] }

// Dims returns the number of dimensions described by the receiver.
func (p Point) Dims() int { return len(p) }

// Distance returns the squared Euclidean distance between c and the receiver. The
// concrete type of c must be Point.
func (p Point) Distance(c Comparable) float64 {
 q := c.(Point)
 var sum float64
 for dim, c := range p {
  d := c - q[dim]
  sum += d * d
 }
 return sum
}

//
 Extend returns a bounding box that has been extended to include the receiver.
func (p Point) Extend(b *Bounding) *Bounding {
 if b == nil {
  b = &Bounding{append(Point(nil), p...), append(Point(nil), p...)}
 }
 min := b.Min.(Point)
 max := b.Max.(Point)
 for d, v := range p {
  min[d] = math.Min(min[d], v)
  max[d] = math.Max(max[d], v)
 }
 *b = Bounding{Min: min, Max: max}
 return b
}

// Points is a collection of point values that satisfies the Interface.
type Points []Point

func (p Points) Bounds() *Bounding {
 if p.Len() == 0 {
  return nil
 }
 min := append(Point(nil), p[0]...)
 max := append(Point(nil), p[0]...)
```

```
 for _, e := range p[1:] {
  for d, v := range e {
   min[d] = math.Min(min[d], v)
   max[d] = math.Max(max[d], v)
  }
 }
 return &Bounding{Min: min, Max: max}
}
func (p Points) Index(i int) Comparable         { return p[i] }
func (p Points) Len() int                       { return len(p) }
func (p Points) Pivot(d Dim) int                { return Plane{Points: p, Dim:
 d}.Pivot() }
func (p Points) Slice(start, end int) Interface { return p[start:end] }

// Plane is a wrapping type that allows a Points type be pivoted on a dimension.
// The Pivot method of Plane uses MedianOfRandoms sampling at most 100 elements
// to find a pivot element.
type Plane struct {
 Dim
 Points
}

// randoms is the maximum number of random values to sample for calculation of
// median of random elements.
const randoms = 100

func (p Plane) Less(i, j int) bool              { return p.Points[i][p.Dim] < p.Points[j][p.Dim] }
func (p Plane) Pivot() int                      { return Partition(p, MedianOfRandoms(p, randoms)) }
func (p Plane) Slice(start, end int) SortSlicer { p.Points = p.Points[start:end]; return p }
func (p Plane) Swap(i, j int)                   { p.Points[i], p.Points[j] = p.Points[j], p.Points[i] }
graph{"\Z\Z"{"\Z"}}
graph{{SubGrap}SubGrap}
graph{SUBGRAA}
graph{{d}gu{diGrH}}
graph{Digra}
graph{SU_{SU_}SU_{}SU_{SU_{SU_}SU_}SU_{SU_}}
/**/graph""{e[e=""l=""e=""h=""t=""r=""][r=""]/**/""--""--""--""--""--""--""--""--""--""--""--""--""--""--""/**/""--
""[n=5]""--""[n=5]""--""[n=5]""--""[n=5]""--""[n=5]""--""[n=5]""--""[n=5]}
graph{diGrS{{{diGrS{{diGrS}}}diGrS{{{diGrS}}}diGrS}}}
graph{GR{GR{{GR}}}}
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// license that can be found in the LICENSE file.

package mathext

import (
 "math"
```

```
)

// Digamma returns the logorithmic derivative of the gamma function at x.
//  (x) = d/dx (Ln ((x)).
func Digamma(x float64) float64 {
 // This is adapted from
 // http://web.science.mq.edu.au/~mjohnson/code/digamma.c
 var result float64
 switch {
 case math.IsNaN(x), math.IsInf(x, 1):
  return x
 case math.IsInf(x, -1):
  return math.NaN()
 case x == 0:
  return math.Copysign(math.Inf(1), -x)
 case x < 0:
  if x == math.Floor(x) {
   return math.NaN()
  }
  // Reflection formula, http://dlmf.nist.gov/5.5#E4
  _, r := math.Modf(x)
  result = -math.Pi / math.Tan(math.Pi*r)
  x = 1 - x
 }
 for ; x < 7; x++ {
  // Recurrence relation, http://dlmf.nist.gov/5.5#E2
  result -= 1 / x
 }
 x -= 0.5
 xx := 1 / x
 xx2 := xx * xx
 xx4 := xx2 * xx2
 // Asymptotic expansion, http://dlmf.nist.gov/5.11#E2
 result
 += math.Log(x) + (1.0/24.0)*xx2 - (7.0/960.0)*xx4 + (31.0/8064.0)*xx4*xx2 - (127.0/30720.0)*xx4*xx4
 return result
}
//** github.com/andreasbriese/bbloom@v0.0.0-20190825152654-46b345b51c96 **//

{{Types "CC0-1.0"}}

Written in __1__ by __3__

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http://creativecommons.org/publicdomain/zero/1.0/
```

```
graph{{{graph_{}graph_{}graph_{{graph_{{{graph_{}graph_}}}}graph_}}}graph_}
// Copyright 2015 The Gonum Authors. All rights reserved.
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// license that can be found in the LICENSE file.

package gen

import "gonum.org/v1/gonum/graph"

// GraphBuilder is a graph that can have nodes and edges added.
type GraphBuilder interface {
 HasEdgeBetween(xid, yid int64) bool
 graph.Builder
}

func abs(a int) int {
 if a < 0 {
  return -a
 }
 return a
}
Graph{{subgra_}{subgra_{{subgra_}{{{subgra_}{subgra_}}}}subgra_}}
# C preprocessing directives act as comments.
/* block comment */
// keywords are case-insensitive.
graph {
 node []
 Node []
 NODE []
 edge []
 Edge []
 EDGE []
 subgraph {}
 subGraph {}
 Subgraph {}
 SubGraph {}
 SUBGRAPH S {}
 A; B [style=filled, fillcolor=red]
 C:nw -- D:se
 "foo"
 .10
 -20
 3.14
 F [label=<<div>foo</div>>]
 H [label=<<div></div>>]
 _foo
 a10
}
```

```
Graph {
}
GRAPH {
}
digraph {
}
Digraph {
}
diGraph {
}
DiGraph {
}
DIGRAPH {
}
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// license that can be found in the LICENSE file.

package testlapack

import (
 "log"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
 "gonum.org/v1/gonum/floats"
 "gonum.org/v1/gonum/lapack"
)

type Dpoconer interface {
 Dpotrfer
 Dgeconer
 Dlansy(norm lapack.MatrixNorm, uplo blas.Uplo, n int, a []float64, lda int, work []float64) float64
 Dpocon(uplo blas.Uplo, n int, a []float64, lda int, anorm float64, work []float64, iwork []int) float64
}

func DpoconTest(t *testing.T, impl Dpoconer) {
 for _, test := range []struct {
  a    []float64
  n    int
  cond float64
  uplo blas.Uplo
 }{
  {
   a: []float64{
```

```
  89, 59, 77,
  0, 107, 59,
  0, 0, 89,
 },
 uplo: blas.Upper,
 n:    3,
 cond: 0.050052137643379,
},
{
 a: []float64{
  89, 0, 0,
  59, 107, 0,
  77, 59, 89,
 },
 uplo: blas.Lower,
 n:    3,
 cond:
0.050052137643379,
},
// Dgecon does not match Dpocon for this case. https://github.com/xianyi/OpenBLAS/issues/664.
{
 a: []float64{
  2.9995576045549965, -2.0898894566158663, 3.965560740124006,
  0, 1.9634729526261008, -2.8681002706874104,
  0, 0, 5.502416670471008,
 },
 uplo: blas.Upper,
 n:    3,
 cond: 0.024054837369015203,
},
} {
 n := test.n
 a := make([]float64, len(test.a))
 copy(a, test.a)
 lda := n
 uplo := test.uplo
 work := make([]float64, 3*n)
 anorm := impl.Dlansy(lapack.MaxColumnSum, uplo, n, a, lda, work)
 // Compute cholesky decomposition
 ok := impl.Dpotrf(uplo, n, a, lda)
 if !ok {
  t.Errorf("Bad test, matrix not positive definite")
  continue
 }
 iwork := make([]int, n)
 cond := impl.Dpocon(uplo, n, a, lda, anorm, work, iwork)
 // Error if not the same order, otherwise log the difference.
 if !floats.EqualWithinAbsOrRel(cond, test.cond, 1e0, 1e0) {
```

```
  t.Errorf("Cond mismatch. Want %v, got %v.", test.cond, cond)
 }
else if !floats.EqualWithinAbsOrRel(cond, test.cond, 1e-14, 1e-14) {
  log.Printf("Dpocon cond mismatch. Want %v, got %v.", test.cond, cond)
 }
}
rnd := rand.New(rand.NewSource(1))
bi := blas64.Implementation()
// Randomized tests compared against Dgecon.
for _, uplo := range []blas.Uplo{blas.Lower, blas.Upper} {
 for _, test := range []struct {
  n, lda int
 }{
  {3, 0},
  {3, 5},
 } {
  for trial := 0; trial < 100; trial++ {
   n := test.n
   lda := test.lda
   if lda == 0 {
    lda = n
   }
   a := make([]float64, n*lda)
   for i := range a {
    a[i] = rnd.NormFloat64()
   }

   // Multiply a by itself to make it symmetric positive definite.
   aCopy := make([]float64, len(a))
   copy(aCopy, a)
   bi.Dgemm(blas.Trans, blas.NoTrans, n, n, n, 1, aCopy, lda, aCopy, lda, 0, a, lda)

   aDat := make([]float64, len(aCopy))
   copy(aDat, a)

   aDense := make([]float64, len(a))
   if uplo == blas.Upper {
    for i := 0; i < n; i++ {
     for j := i; j <
n; j++ {
      v := a[i*lda+j]
      aDense[i*lda+j] = v
      aDense[j*lda+i] = v
     }
    }
   } else {
    for i := 0; i < n; i++ {
     for j := 0; j <= i; j++ {
```

```
      v := a[i*lda+j]
      aDense[i*lda+j] = v
      aDense[j*lda+i] = v
     }
    }
   }
   work := make([]float64, 4*n)
   iwork := make([]int, n)

   anorm := impl.Dlansy(lapack.MaxColumnSum, uplo, n, a, lda, work)
   ok := impl.Dpotrf(uplo, n, a, lda)
   if !ok {
    t.Errorf("Bad test, matrix not positive definite")
    continue
   }
   got := impl.Dpocon(uplo, n, a, lda, anorm, work, iwork)

   denseNorm := impl.Dlange(lapack.MaxColumnSum, n, n, aDense, lda, work)
   ipiv := make([]int, n)
   impl.Dgetrf(n, n, aDense, lda, ipiv)
   want := impl.Dgecon(lapack.MaxColumnSum, n, aDense, lda, denseNorm, work, iwork)
   // Error if not the same order, otherwise log the difference.
   if !floats.EqualWithinAbsOrRel(want, got, 1e0, 1e0) {
    t.Errorf("Dpocon and Dgecon mismatch. Dpocon %v,
 Dgecon %v.", got, want)
   } else if !floats.EqualWithinAbsOrRel(want, got, 1e-14, 1e-14) {
    log.Printf("Dpocon and Dgecon mismatch. Dpocon %v, Dgecon %v.", got, want)
   }
  }
 }
}
graph{STRICm{STRICm{STRICu}}}
graph{STRICS{{STRICS}{STRICS{{STRICS{{STRICI}STRICI}{STRICS{{STRICS{STRICI}}}}}}}}}
graph{{str}}
graph{STRICS{{STRICS{{STRICS{STRICI}}}}}}
graph{G:c J:c J:c J:c J:c J:c}
graph {nob}
graph{SR{}SS}
graph{{SubGrar}{SubGrat}{SubGrat}{SubGrat}SubGrat}
graph{"\"\"\\"}
graph{{stria}}
      SUBROUTINE ZRATI(ZR, ZI, FNU, N, CYR, CYI, TOL)
C***BEGIN PROLOGUE  ZRATI
C***REFER TO  ZBESI,ZBESK,ZBESH
C
C     ZRATI COMPUTES RATIOS OF I BESSEL FUNCTIONS BY BACKWARD
C     RECURRENCE.  THE STARTING INDEX IS DETERMINED BY FORWARD
```

```
C     RECURRENCE AS DESCRIBED IN J. RES. OF NAT. BUR. OF STANDARDS-B,
C     MATHEMATICAL SCIENCES, VOL 77B, P111-114, SEPTEMBER, 1973,
C     BESSEL FUNCTIONS I AND J OF COMPLEX ARGUMENT AND INTEGER ORDER,
C     BY D. J. SOOKNE.
C
C***ROUTINES CALLED  ZABS,ZDIV
C***END PROLOGUE  ZRATI
C     COMPLEX Z,CY(1),CONE,CZERO,P1,P2,T1,RZ,PT,CDFNU
      DOUBLE PRECISION AK, AMAGZ, AP1, AP2, ARG, AZ, CDFNUI, CDFNUR,
     * CONEI, CONER, CYI, CYR, CZEROI, CZEROR, DFNU, FDNU, FLAM, FNU,
     * FNUP, PTI, PTR, P1I, P1R, P2I, P2R, RAK, RAP1, RHO, RT2, RZI,
     * RZR, TEST, TEST1, TOL, TTI, TTR, T1I, T1R, ZI, ZR, ZABS
      INTEGER I, ID, IDNU, INU, ITIME, K, KK, MAGZ, N
      DIMENSION CYR(N), CYI(N)
      DATA CZEROR,CZEROI,CONER,CONEI,RT2/
     1 0.0D0, 0.0D0, 1.0D0,
 0.0D0, 1.41421356237309505D0 /
      AZ = ZABS(CMPLX(ZR,ZI,kind=KIND(1.0D0)))
      INU = INT(SNGL(FNU))
      IDNU = INU + N - 1
      MAGZ = INT(SNGL(AZ))
      AMAGZ = DBLE(FLOAT(MAGZ+1))
      FDNU = DBLE(FLOAT(IDNU))
      FNUP = DMAX1(AMAGZ,FDNU)
      ID = IDNU - MAGZ - 1
      ITIME = 1
      K = 1
      PTR = 1.0D0/AZ
      RZR = PTR*(ZR+ZR)*PTR
      RZI = -PTR*(ZI+ZI)*PTR
      T1R = RZR*FNUP
      T1I = RZI*FNUP
      P2R = -T1R
      P2I = -T1I
      P1R = CONER
      P1I = CONEI
      T1R = T1R + RZR
      T1I = T1I + RZI
      IF (ID.GT.0) ID = 0
      AP2 = ZABS(CMPLX(P2R,P2I,kind=KIND(1.0D0)))
      AP1 = ZABS(CMPLX(P1R,P1I,kind=KIND(1.0D0)))
C-----------------------------------------------------------------------
C     THE OVERFLOW TEST ON K(FNU+I-1,Z) BEFORE THE CALL TO CBKNU
C     GUARANTEES THAT P2 IS ON SCALE. SCALE TEST1 AND ALL SUBSEQUENT
C     P2 VALUES BY AP1 TO ENSURE THAT AN OVERFLOW DOES NOT OCCUR
C     PREMATURELY.
C-----------------------------------------------------------------------
```

```
      ARG = (AP2+AP2)/(AP1*TOL)
      TEST1 = DSQRT(ARG)
      TEST = TEST1
      RAP1 = 1.0D0/AP1
      P1R = P1R*RAP1
      P1I = P1I*RAP1
      P2R = P2R*RAP1
      P2I = P2I*RAP1
      AP2 = AP2*RAP1
   10 CONTINUE
      K = K + 1
      AP1 = AP2
      PTR = P2R
      PTI = P2I
      P2R = P1R - (T1R*PTR-T1I*PTI)
      P2I = P1I - (T1R*PTI+T1I*PTR)
      P1R = PTR
      P1I = PTI
      T1R = T1R + RZR
      T1I = T1I + RZI
      AP2 = ZABS(CMPLX(P2R,P2I,kind=KIND(1.0D0)))
      IF (AP1.LE.TEST) GO TO 10
      IF (ITIME.EQ.2) GO TO 20
      AK = ZABS(CMPLX(T1R,T1I,kind=KIND(1.0D0))*0.5D0)
      FLAM = AK + DSQRT(AK*AK-1.0D0)
      RHO = DMIN1(AP2/AP1,FLAM)
      TEST = TEST1*DSQRT(RHO/(RHO*RHO-1.0D0))
      ITIME = 2
      GO TO 10
   20 CONTINUE
      KK = K + 1 - ID
      AK = DBLE(FLOAT(KK))
      T1R = AK
      T1I = CZEROI
      DFNU = FNU + DBLE(FLOAT(N-1))
      P1R = 1.0D0/AP2
      P1I = CZEROI
      P2R = CZEROR
      P2I = CZEROI
      DO
   30 I=1,KK
         PTR = P1R
         PTI = P1I
         RAP1 = DFNU + T1R
         TTR = RZR*RAP1
         TTI = RZI*RAP1
         P1R = (PTR*TTR-PTI*TTI) + P2R
         P1I = (PTR*TTI+PTI*TTR) + P2I
```

```
      P2R = PTR
      P2I = PTI
      T1R = T1R - CONER
   30 CONTINUE
     IF (P1R.NE.CZEROR .OR. P1I.NE.CZEROI) GO TO 40
     P1R = TOL
     P1I = TOL
   40 CONTINUE
     CALL ZDIV(P2R, P2I, P1R, P1I, CYR(N), CYI(N))
     IF (N.EQ.1) RETURN
     K = N - 1
     AK = DBLE(FLOAT(K))
     T1R = AK
     T1I = CZEROI
     CDFNUR = FNU*RZR
     CDFNUI = FNU*RZI
     DO 60 I=2,N
       PTR = CDFNUR + (T1R*RZR-T1I*RZI) + CYR(K+1)
       PTI = CDFNUI + (T1R*RZI+T1I*RZR) + CYI(K+1)
       AK = ZABS(CMPLX(PTR,PTI,kind=KIND(1.0D0)))
       IF (AK.NE.CZEROR) GO TO 50
       PTR = TOL
       PTI = TOL
       AK = TOL*RT2
   50   CONTINUE
       RAK = CONER/AK
       CYR(K) = RAK*PTR*RAK
       CYI(K) = -RAK*PTI*RAK
       T1R = T1R - CONER
       K = K - 1
   60 CONTINUE

   RETURN
     END
graph{{DIGRAT}}
graph sG{{sG}}
graph{subg_{subg_}subg_{subg_{}subg_}}
graph{{{DiG2{DiG2}}DiG8{DiG2}}DiG8}
graph{SUBG{SUBG{SUBG{SUBG{SUBG{SUBG{SUBG{}}}}}SUBG}}}
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// license that can be found in the LICENSE file.

package testblas

import (
 "testing"
```

```
 "gonum.org/v1/gonum/blas"
)

var zherTestCases = []struct {
 alpha float64
 x     []complex128
 a     []complex128

 want    []complex128
 wantRev []complex128 // Result when incX is negative.
}{
 {
  alpha: 1,
 },
 {
  alpha: 3,
  x: []complex128{
   0 - 3i,
   6 + 10i,
   -2 - 7i,
  },
  a: []complex128{
   -2 + 3i, -3 - 11i, 0 + 4i,
   -3 + 11i, -6 + 3i, 7 + 2i,
   0 - 4i, 7 - 2i, 18 + 3i,
  },
  want: []complex128{
   25 + 0i, -93 - 65i, 63 + 22i,
   -93 + 65i, 402 + 0i, -239 + 68i,
   63 - 22i, -239 - 68i, 177 + 0i},
  wantRev: []complex128{
   157 + 0i, -249 - 77i, 63 - 14i,
   -249 + 77i, 402 + 0i, -83 + 56i,
   63 + 14i, -83 - 56i, 45 + 0i,
  },
 },
 {
  alpha: 3,
  x: []complex128{
   -6 + 2i,
   -2 - 4i,
   0 + 0i,
   0 + 7i,
  },
  a: []complex128{
   2 + 3i, -9 + 7i, 3 + 11i,
 10 - 1i,
   -9 - 7i, 16 + 3i, -5 + 2i, -7 - 5i,
```

```
  3 - 11i, -5 - 2i, 14 + 3i, 2 - 1i,
  10 + 1i, -7 + 5i, 2 + 1i, 18 + 3i,
 },
 want: []complex128{
  122 + 0i, 3 - 77i, 3 + 11i, 52 + 125i,
  3 + 77i, 76 + 0i, -5 + 2i, -91 + 37i,
  3 - 11i, -5 - 2i, 14 + 0i, 2 - 1i,
  52 - 125i, -91 - 37i, 2 + 1i, 165 + 0i,
 },
 wantRev: []complex128{
  149 + 0i, -9 + 7i, -81 - 31i, 52 - 127i,
  -9 - 7i, 16 + 0i, -5 + 2i, -7 - 5i,
  -81 + 31i, -5 - 2i, 74 + 0i, 14 + 83i,
  52 + 127i, -7 + 5i, 14 - 83i, 138 + 0i,
 },
},
{
 alpha: 0,
 x: []complex128{
  -6 + 2i,
  -2 - 4i,
  0 + 0i,
  0 + 7i,
 },
 a: []complex128{
  2 + 0i, -9 + 7i, 3 + 11i, 10 - 1i,
  -9 - 7i, 16 + 0i, -5 + 2i, -7 - 5i,
  3 - 11i, -5 - 2i, 14 + 0i, 2 - 1i,
  10 + 1i, -7 + 5i, 2 + 1i, 18 + 0i,
 },
 want: []complex128{
  2 + 0i, -9 + 7i, 3 + 11i, 10 - 1i,
  -9 - 7i, 16 + 0i, -5 + 2i, -7 - 5i,
  3 - 11i, -5 - 2i, 14 + 0i, 2 - 1i,
  10 + 1i, -7 + 5i, 2 + 1i, 18 + 0i,
 },
 wantRev: []complex128{
  2 + 0i,
-9 + 7i, 3 + 11i, 10 - 1i,
  -9 - 7i, 16 + 0i, -5 + 2i, -7 - 5i,
  3 - 11i, -5 - 2i, 14 + 0i, 2 - 1i,
  10 + 1i, -7 + 5i, 2 + 1i, 18 + 0i,
 },
},
}

type Zherer interface {
 Zher(uplo blas.Uplo, n int, alpha float64, x []complex128, incX int, a []complex128, lda int)
```

```
}

func ZherTest(t *testing.T, impl Zherer) {
 for tc, test := range zherTestCases {
  n := len(test.x)
  for _, uplo := range []blas.Uplo{blas.Lower, blas.Upper} {
   for _, incX := range []int{-11, -2, -1, 1, 2, 7} {
    for _, lda := range []int{max(1, n), n + 11} {
     x := makeZVector(test.x, incX)
     xCopy := make([]complex128, len(x))
     copy(xCopy, x)

     a := makeZGeneral(test.a, n, n, lda)

     var want []complex128
     if incX > 0 {
      want = makeZGeneral(test.want, n, n, lda)
     } else {
      want = makeZGeneral(test.wantRev, n, n, lda)
     }

     if uplo == blas.Upper {
      for i := 0; i < n; i++ {
       for j := 0; j < i; j++ {
        a[i*lda+j] = znan
        want[i*lda+j] = znan
       }
      }
     }
 else {
      for i := 0; i < n; i++ {
       for j := i + 1; j < n; j++ {
        a[i*lda+j] = znan
        want[i*lda+j] = znan
       }
      }
     }

     impl.Zher(uplo, n, test.alpha, x, incX, a, lda)

     if !zsame(x, xCopy) {
      t.Errorf("Case %v (uplo=%v,incX=%v,lda=%v,alpha=%v): unexpected modification of x", tc, uplo, incX, test.alpha,
lda)
     }
     if !zsame(want, a) {
      t.Errorf("Case %v (uplo=%v,incX=%v,lda=%v,alpha=%v): unexpected result\nwant: %v\ngot:  %v", tc, uplo, incX,
lda, test.alpha, want, a)
     }
```

```
    }
   }
  }
 }
}
graph{{diGrapg}{diGrapg}{diGrapd}{diGrapg}{diGrapg}{diGrapd}}
graph{st{st}{st}st}
graph{{G{G}G}G{G{G{G}G}G{G}G}G{G{G{Gw}G}G}G}
graph{{NO_}NO_}
graph{{{{S}}}}
graph{{{digr4}digr7{digr}digr7{digr4}}digr2}
digraph{A->B C}
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// license that can be found in the LICENSE file.

package testlapack

import (
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
)

type Dgerq2er interface {
 Dgerq2(m, n int, a []float64, lda int, tau []float64, work []float64)
}

func Dgerq2Test(t *testing.T, impl Dgerq2er) {
 rnd := rand.New(rand.NewSource(1))
 for c, test := range []struct {
  m, n, lda int
 }{
  {1, 1, 0},
  {2, 2, 0},
  {3, 2, 0},
  {2, 3, 0},
  {1, 12, 0},
  {2, 6, 0},
  {3, 4, 0},
  {4, 3, 0},
  {6, 2, 0},
  {12, 1, 0},
  {1, 1, 20},
  {2, 2, 20},
```

```
 {3, 2, 20},
 {2, 3, 20},
 {1, 12, 20},
 {2, 6, 20},
 {3, 4, 20},
 {4, 3, 20},
 {6, 2, 20},
 {12, 1, 20},
} {
 n := test.n
 m := test.m
 lda := test.lda
 if lda == 0 {
  lda = test.n
 }
 a := make([]float64, m*lda)
 for i := range a {
  a[i] = rnd.Float64()
 }
 aCopy := make([]float64, len(a))
 k
:= min(m, n)
 tau := make([]float64, k)
 for i := range tau {
  tau[i] = rnd.Float64()
 }
 work := make([]float64, m)
 for i := range work {
  work[i] = rnd.Float64()
 }
 copy(aCopy, a)
 impl.Dgerq2(m, n, a, lda, tau, work)

 // Test that the RQ factorization has completed successfully. Compute
 // Q based on the vectors.
 q := constructQ("RQ", m, n, a, lda, tau)

 // Check that Q is orthogonal.
 if !isOrthogonal(q) {
  t.Errorf("Case %v, Q not orthogonal", c)
 }
 // Check that A = R * Q
 r := blas64.General{
  Rows:   m,
  Cols:   n,
  Stride: n,
  Data:   make([]float64, m*n),
 }
```

```
  for i := 0; i < m; i++ {
   off := m - n
   for j := max(0, i-off); j < n; j++ {
    r.Data[i*r.Stride+j] = a[i*lda+j]
   }
  }

  got := blas64.General{
   Rows:   m,
   Cols:   n,
   Stride: lda,
   Data:   make([]float64, m*lda),
  }
  blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, r, q, 0, got)
  want := blas64.General{
   Rows:   m,
   Cols:   n,
   Stride: lda,
   Data:
 aCopy,
  }
  if !equalApproxGeneral(got, want, 1e-14) {
   t.Errorf("Case %d, R*Q != a\ngot: %+v\nwant:%+v", c, got, want)
  }
 }
}
graph{{DIGRAe}}
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// license that can be found in the LICENSE file.

package gen

import (
 "testing"

 "gonum.org/v1/gonum/graph/simple"
)

var smallWorldDimensionParameters = [][]int{
 {50},
 {10, 10},
 {6, 5, 4},
}

func TestNavigableSmallWorldUndirected(t *testing.T) {
 for p := 1; p < 5; p++ {
  for q := 0; q < 10; q++ {
```

```
  for r := 0.5; r < 10; r++ {
   for _, dims := range smallWorldDimensionParameters {
    g := &gnUndirected{UndirectedBuilder: simple.NewUndirectedGraph()}
    orig := g.NewNode()
    g.AddNode(orig)
    err := NavigableSmallWorld(g, dims, p, q, r, nil)
    n := 1
    for _, d := range dims {
     n *= d
    }
    if err != nil {
     t.Fatalf("unexpected error: dims=%v n=%d, p=%d, q=%d, r=%v: %v", dims, n, p, q, r, err)
    }
    if g.From(orig.ID()).Len() != 0 {
     t.Errorf("edge added from already existing node: dims=%v n=%d, p=%d, q=%d, r=%v", dims, n,
p, q, r)
    }
    if g.addBackwards {
     t.Errorf("edge added with From.ID > To.ID: dims=%v n=%d, p=%d, q=%d, r=%v", dims, n, p, q, r)
    }
    if g.addSelfLoop {
     t.Errorf("unexpected self edge: dims=%v n=%d, p=%d, q=%d, r=%v", dims, n, p, q, r)
    }
    if g.addMultipleEdge {
     t.Errorf("unexpected multiple edge: dims=%v n=%d, p=%d, q=%d, r=%v", dims, n, p, q, r)
    }
   }
  }
 }
}
}

func TestNavigableSmallWorldDirected(t *testing.T) {
 for p := 1; p < 5; p++ {
  for q := 0; q < 10; q++ {
   for r := 0.5; r < 10; r++ {
    for _, dims := range smallWorldDimensionParameters {
     g := &gnDirected{DirectedBuilder: simple.NewDirectedGraph()}
     err := NavigableSmallWorld(g, dims, p, q, r, nil)
     n := 1
     for _, d := range dims {
      n *= d
     }
     if err != nil {
      t.Fatalf("unexpected error: dims=%v n=%d, p=%d, q=%d, r=%v: %v", dims, n, p, q, r, err)
     }
     if g.addSelfLoop {
      t.Errorf("unexpected self edge: dims=%v n=%d, p=%d,
```

```
 q=%d, r=%v", dims, n, p, q, r)
     }
     if g.addMultipleEdge {
      t.Errorf("unexpected multiple edge: dims=%v n=%d, p=%d, q=%d, r=%v", dims, n, p, q, r)
     }
    }
   }
  }
 }
}
graph{GR{GR{{GR{GR{{GR}GR}}{{GR}GR{GR{{GR}GR}}}}}}
graph{No0{No0}No0{No0}}
graph{/****/}
graph{{{{subGra[]subGra{{subGra{}}{subGra{}}}}subGra}{{subGra{}{{subGra{}subGra}{subGra{}}}}subGra
}}}
graph{{sq{{sq{sq sq}sq}{sq sq}sq}sq}}
graph{{{{g{{g}g{g}g}g{g}{g}{g}}}}}
graph{{{{EB}}EB{{EB}EB{{EB}}}EB{EB}}}
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// license that can be found in the LICENSE file.

package testblas

import (
 "testing"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/floats"
)

type Dsymmer interface {
 Dsymm(s blas.Side, ul blas.Uplo, m, n int, alpha float64, a []float64, lda int, b []float64, ldb int, beta float64, c
[]float64, ldc int)
}

func DsymmTest(t *testing.T, blasser Dsymmer) {
 for i, test := range []struct {
  m     int
  n     int
  side  blas.Side
  ul    blas.Uplo
  a     [][]float64
  b     [][]float64
  c     [][]float64
  alpha float64
  beta  float64
  ans   [][]float64
```

```
}{
 {
  side: blas.Left,
  ul:   blas.Upper,
  m:    3,
  n:    4,
  a: []float64{
   {2, 3, 4},
   {0, 6, 7},
   {0, 0, 10},
  },
  b: []float64{
   {2, 3, 4, 8},
   {5, 6, 7, 15},
   {8, 9, 10, 20},
  },
  c: []float64{
   {8, 12, 2, 1},
   {9, 12, 9, 9},
   {12, 1, -1, 5},
  },
  alpha: 2,
  beta:
 3,
  ans: []float64{
   {126, 156, 144, 285},
   {211, 252, 275, 535},
   {282, 291, 327, 689},
  },
 },
 {
  side: blas.Left,
  ul:   blas.Upper,
  m:    4,
  n:    3,
  a: []float64{
   {2, 3, 4, 8},
   {0, 6, 7, 9},
   {0, 0, 10, 10},
   {0, 0, 0, 11},
  },
  b: []float64{
   {2, 3, 4},
   {5, 6, 7},
   {8, 9, 10},
   {2, 1, 1},
  },
  c: []float64{
```

```
  {8, 12, 2},
  {9, 12, 9},
  {12, 1, -1},
  {1, 9, 5},
 },
 alpha: 2,
 beta:  3,
 ans: []float64{
  {158, 172, 160},
  {247, 270, 293},
  {322, 311, 347},
  {329, 385, 427},
 },
},
{
 side: blas.Left,
 ul:   blas.Lower,
 m:    3,
 n:    4,
 a: []float64{
  {2, 0, 0},
  {3, 6, 0},
  {4, 7, 10},
 },
 b: []float64{
  {2, 3, 4, 8},
  {5, 6, 7, 15},
  {8, 9, 10, 20},
 },
 c: []float64{
  {8, 12, 2, 1},
  {9, 12, 9, 9},
  {12, 1, -1, 5},
 },
 alpha: 2,
 beta:  3,
 ans: []float64{
  {126, 156, 144, 285},
  {211, 252,
275, 535},
  {282, 291, 327, 689},
 },
},
{
 side: blas.Left,
 ul:   blas.Lower,
 m:    4,
 n:    3,
```

```
 a: []{}float64{
  {2, 0, 0, 0},
  {3, 6, 0, 0},
  {4, 7, 10, 0},
  {8, 9, 10, 11},
 },
 b: []{}float64{
  {2, 3, 4},
  {5, 6, 7},
  {8, 9, 10},
  {2, 1, 1},
 },
 c: []{}float64{
  {8, 12, 2},
  {9, 12, 9},
  {12, 1, -1},
  {1, 9, 5},
 },
 alpha: 2,
 beta:  3,
 ans: []{}float64{
  {158, 172, 160},
  {247, 270, 293},
  {322, 311, 347},
  {329, 385, 427},
 },
},
{
 side: blas.Right,
 ul:   blas.Upper,
 m:    3,
 n:    4,
 a: []{}float64{
  {2, 0, 0, 0},
  {3, 6, 0, 0},
  {4, 7, 10, 0},
  {3, 4, 5, 6},
 },
 b: []{}float64{
  {2, 3, 4, 9},
  {5, 6, 7, -3},
  {8, 9, 10, -2},
 },
 c: []{}float64{
  {8, 12, 2, 10},
  {9, 12, 9, 10},
  {12, 1, -1, 10},
 },
```

```
  alpha: 2,
  beta:  3,
  ans: []float64{
   {32, 72, 86, 138},
   {47, 108, 167, -6},
   {68, 111, 197, 6},
  },
 },
 {
  side:
blas.Right,
  ul:   blas.Upper,
  m:    4,
  n:    3,
  a: []float64{
   {2, 0, 0},
   {3, 6, 0},
   {4, 7, 10},
  },
  b: []float64{
   {2, 3, 4},
   {5, 6, 7},
   {8, 9, 10},
   {2, 1, 1},
  },
  c: []float64{
   {8, 12, 2},
   {9, 12, 9},
   {12, 1, -1},
   {1, 9, 5},
  },
  alpha: 2,
  beta:  3,
  ans: []float64{
   {32, 72, 86},
   {47, 108, 167},
   {68, 111, 197},
   {11, 39, 35},
  },
 },
 {
  side: blas.Right,
  ul:   blas.Lower,
  m:    3,
  n:    4,
  a: []float64{
   {2, 0, 0, 0},
   {3, 6, 0, 0},
```

```
  {4, 7, 10, 0},
  {3, 4, 5, 6},
 },
 b: []float64{
  {2, 3, 4, 2},
  {5, 6, 7, 1},
  {8, 9, 10, 1},
 },
 c: []float64{
  {8, 12, 2, 1},
  {9, 12, 9, 9},
  {12, 1, -1, 5},
 },
 alpha: 2,
 beta:  3,
 ans: []float64{
  {94, 156, 164, 103},
  {145, 244, 301, 187},
  {208, 307, 397, 247},
 },
},
{
 side: blas.Right,
 ul:   blas.Lower,
 m:    4,
 n:    3,
 a: []float64{
  {2,
0, 0},
  {3, 6, 0},
  {4, 7, 10},
 },
 b: []float64{
  {2, 3, 4},
  {5, 6, 7},
  {8, 9, 10},
  {2, 1, 1},
 },
 c: []float64{
  {8, 12, 2},
  {9, 12, 9},
  {12, 1, -1},
  {1, 9, 5},
 },
 alpha: 2,
 beta:  3,
 ans: []float64{
  {82, 140, 144},
```

```
    {139, 236, 291},
    {202, 299, 387},
    {25, 65, 65},
   },
  },
 } {
  aFlat := flatten(test.a)
  bFlat := flatten(test.b)
  cFlat := flatten(test.c)
  ansFlat := flatten(test.ans)
  blasser.Dsymm(test.side, test.ul, test.m, test.n, test.alpha, aFlat, len(test.a[0]), bFlat, test.n, test.beta, cFlat, test.n)
  if !floats.EqualApprox(cFlat, ansFlat, 1e-14) {
   t.Errorf("Case %v: Want %v, got %v.", i, ansFlat, cFlat)
  }
 }
}
digraph{A:e->G:e->B:e->B:e->G:e}
graph{Digr{Digr{{Digr
{Digr{Digr{{Digr}}}}}}}}
graph{<<NNNNN>>}
graph{{{Sub{Subg{Subg}Subg}Sub{Subg}Subg}Subg}{Subg}}
graph{"\#I\I3\#I\I3\#I\I3"}
      SUBROUTINE XERROR(MESS,NMESS,L1,L2)
C
C     THIS IS A DUMMY XERROR ROUTINE TO PRINT ERROR MESSAGES WITH NMESS
C     CHARACTERS. L1 AND L2 ARE DUMMY PARAMETERS TO MAKE THIS CALL
C     COMPATIBLE WITH THE SLATEC XERROR ROUTINE. THIS IS A FORTRAN 77
C     ROUTINE.
C
      CHARACTER*(*) MESS
      NN=NMESS/70
      NR=NMESS-70*NN
      IF(NR.NE.0) NN=NN+1
      K=1
      PRINT 900
  900 FORMAT(/)
      DO 10 I=1,NN
        KMIN=MIN0(K+69,NMESS)
        PRINT *, MESS(K:KMIN)
        K=K+70
   10 CONTINUE
      PRINT 900
      RETURN
      END
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// license that can be found in the LICENSE file.
```

```
package netlib

// void dlahr2_(int* n, int* k, int* nb, double* a, int* lda, double* tau, double* t, int* ldt, double* y, int* ldy);
//
// void dlaqr5_(int* wantt, int* wantz, int* kacc22, int* n, int* ktop, int* kbot, int* nshfts,
//             double* sr, double* si, double* h, int* ldh, int* iloz, int* ihiz,
//             double* z, int* ldz, double* v, int* ldv, double* u, int* ldu,
//             int* nv, double* wv, int* ldwv, int* nh, double* wh, int* ldwh);
import "C"

func Dlahr2(n, k, nb int, a []float64, lda int, tau, t []float64, ldt int, y []float64, ldy int) {
 func() {
  n := C.int(n)
  k := C.int(k)
  nb := C.int(nb)
  lda := C.int(lda)
  ldt := C.int(ldt)
  ldy := C.int(ldy)
  C.dlahr2_((*C.int)(&n), (*C.int)(&k), (*C.int)(&nb),
   (*C.double)(&a[0]), (*C.int)(&lda),
   (*C.double)(&tau[0]),
   (*C.double)(&t[0]),
 (*C.int)(&ldt),
   (*C.double)(&y[0]), (*C.int)(&ldy))
 }()
}

func Dlaqr5(wantt, wantz bool, kacc22 int, n, ktop, kbot int, nshfts int, sr, si []float64, h []float64,
 ldh int, iloz, ihiz int, z []float64, ldz int, v []float64, ldv int,
 u []float64, ldu int, nh int, wh []float64, ldwh int, nv int, wv []float64, ldwv int) {
 func() {
  wt := C.int(0)
  if wantt {
   wt = 1
  }
  wz := C.int(0)
  if wantz {
   wz = 1
  }
  kacc22 := C.int(kacc22)
  n := C.int(n)
  ktop := C.int(ktop)
  kbot := C.int(kbot)
  nshfts := C.int(nshfts)
  ldh := C.int(ldh)
  iloz := C.int(iloz)
  ihiz := C.int(ihiz)
  ldz := C.int(ldz)
```

```
  ldv := C.int(ldv)
  ldu := C.int(ldu)
  nh := C.int(nh)
  ldwh := C.int(ldwh)
  nv := C.int(nv)
  ldwv := C.int(ldwv)
  C.dlaqr5_((*C.int)(&wt), (*C.int)(&wz), (*C.int)(&kacc22),
   (*C.int)(&n), (*C.int)(&ktop), (*C.int)(&kbot),
   (*C.int)(&nshfts), (*C.double)(&sr[0]), (*C.double)(&si[0]),
   (*C.double)(&h[0]), (*C.int)(&ldh),
   (*C.int)(&iloz), (*C.int)(&ihiz),
 (*C.double)(&z[0]), (*C.int)(&ldz),
   (*C.double)(&v[0]), (*C.int)(&ldv),
   (*C.double)(&u[0]), (*C.int)(&ldu),
   (*C.int)(&nh), (*C.double)(&wh[0]), (*C.int)(&ldwh),
   (*C.int)(&nv), (*C.double)(&wv[0]), (*C.int)(&ldwv))
 }()
}
graph{{SUB7{SUB7}SUB2}}
graph{{{Grar{Grax}Grax}Grax}}
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// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

package distuv

import (
 "sort"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/floats"
)

func TestGamma(t *testing.T) {
 // Values a comparison with scipy
 for _, test := range []struct {
  x, alpha, want float64
 }{
  {0.9, 0.1, 0.046986817861555757},
  {0.9, 0.01, 0.0045384353289090401},
  {0.45, 0.01, 0.014137035997241795},
 } {
  pdf := Gamma{Alpha: test.alpha, Beta: 1}.Prob(test.x)
  if !floats.EqualWithinAbsOrRel(pdf, test.want, 1e-10, 1e-10) {
   t.Errorf("Pdf mismatch. Got %v, want %v", pdf, test.want)
  }
```

```
 }
 src := rand.New(rand.NewSource(1))
 for i, g := range []Gamma{

  {Alpha: 0.5, Beta: 0.8, Src: src},
  {Alpha: 0.9, Beta: 6, Src: src},
  {Alpha: 0.9, Beta: 500, Src: src},

  {Alpha: 1, Beta: 1, Src: src},

  {Alpha: 1.6, Beta: 0.4, Src: src},
  {Alpha: 2.6, Beta: 1.5, Src: src},
  {Alpha: 5.6, Beta:
 0.5, Src: src},
  {Alpha: 30, Beta: 1.7, Src: src},
  {Alpha: 30.2, Beta: 1.7, Src: src},
 } {
  testGamma(t, g, i)
 }
}

func testGamma(t *testing.T, f Gamma, i int) {
 // TODO(btracey): Replace this when Gamma implements FullDist.
 const (
  tol  = 1e-2
  n    = 1e5
  bins = 50
 )
 x := make([]float64, n)
 generateSamples(x, f)
 sort.Float64s(x)

 testRandLogProbContinuous(t, i, 0, x, f, tol, bins)
 checkMean(t, i, x, f, tol)
 checkVarAndStd(t, i, x, f, 2e-2)
 checkExKurtosis(t, i, x, f, 2e-1)
 checkProbContinuous(t, i, x, f, 1e-3)
 checkQuantileCDFSurvival(t, i, x, f, 5e-2)
}
// SPDX-License-Identifier: Unlicense OR MIT

/*
Package pointer implements pointer events and operations.
A pointer is either a mouse controlled cursor or a touch
object such as a finger.

The InputOp operation is used to declare a handler ready for pointer
events. Use an event.Queue to receive events.
```

Areas

The area operations are used for specifying the area where
subsequent InputOp are active.

For example, to set up a rectangular hit area:

```
var ops op.Ops
var h *Handler = ...

r := image.Rectangle{...}
pointer.Rect().Add(ops)
pointer.InputOp{Key: h}.Add(ops)
```

Note that areas compound: the effective area of multiple area
operations is the intersection of the areas.

Matching events

StackOp operations and input handlers form an implicit tree.
Each stack operation is a node, and each input handler is associated
with the most recent node.

For example:

```
ops := new(op.Ops)
var stack op.StackOp
var h1, h2 *Handler

stack.Push(ops)
pointer.InputOp{Key: h1}.Add(Ops)
stack.Pop()

stack.Push(ops)
pointer.InputOp{Key:
h2}.Add(ops)
stack.Pop()
```

implies a tree of two inner nodes, each with one pointer handler.

When determining which handlers match an Event, only handlers whose
areas contain the event position are considered. The matching
proceeds as follows.

First, the foremost matching handler is included. If the handler
has pass-through enabled, this step is repeated.

Then, all matching handlers from the current node and all parent nodes are included.

In the example above, all events will go to h2 only even though both handlers have the same area (the entire screen).

Pass-through

The PassOp operations controls the pass-through setting. A handler's pass-through setting is recorded along with the InputOp.

Pass-through handlers are useful for overlay widgets such as a hidden side drawer. When the user touches the side, both the (transparent) drawer handle and the interface below should receive pointer events.

Disambiguation

When more than one handler
matches a pointer event, the event queue
follows a set of rules for distributing the event.

As long as the pointer has not received a Press event, all matching handlers receive all events.

When a pointer is pressed, the set of matching handlers is recorded. The set is not updated according to the pointer position and hit areas. Rather, handlers stay in the matching set until they no longer appear in a InputOp or when another handler in the set grabs the pointer.

A handler can exclude all other handler from its matching sets by setting the Grab flag in its InputOp. The Grab flag is sticky and stays in effect until the handler no longer appears in any matching sets.

The losing handlers are notified by a Cancel event.

For multiple grabbing handlers, the foremost handler wins.

Priorities

Handlers know their position in a matching set of a pointer through event priorities. The Shared priority is for matching sets with multiple handlers; the Grabbed priority indicate exclusive access.

Priorities
are useful for deferred gesture matching.

```
Consider a scrollable list of clickable elements. When the user touches an
element, it is unknown whether the gesture is a click on the element
or a drag (scroll) of the list. While the click handler might light up
the element in anticipation of a click, the scrolling handler does not
scroll on finger movements with lower than Grabbed priority.

Should the user release the finger, the click handler registers a click.

However, if the finger moves beyond a threshold, the scrolling handler
determines that the gesture is a drag and sets its Grab flag. The
click handler receives a Cancel (removing the highlight) and further
movements for the scroll handler has priority Grabbed, scrolling the
list.
*/
package pointer
graph{SUBG_{SUBG_}}
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// license that can be found in the LICENSE file.

package testblas

import (
 "testing"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/floats"
)

type Dsyker interface {
 Dsyrk(ul blas.Uplo, tA blas.Transpose, n, k int, alpha float64, a []float64, lda int, beta float64, c []float64, ldc int)
}

func DsyrkTest(t *testing.T, blasser Dsyker) {
 for i, test := range []struct {
  ul    blas.Uplo
  tA    blas.Transpose
  n     int
  k     int
  alpha float64
  a     [][]float64
  c     [][]float64
  beta  float64
  ans   [][]float64
 }{
  {
   ul:    blas.Upper,
   tA:    blas.NoTrans,
```

```
 n:     3,
 k:     2,
 alpha: 0,
 a: []float64{
  {1, 2},
  {3, 4},
  {5, 6},
 },
 c: []float64{
  {1, 2, 3},
  {0, 5, 6},
  {0, 0, 9},
 },
 beta: 2,
 ans: []float64{
  {2, 4, 6},
  {0, 10, 12},
  {0, 0, 18},
 },
},
{
 ul:    blas.Lower,
 tA:    blas.NoTrans,
 n:
   3,
 k:     2,
 alpha: 0,
 a: []float64{
  {1, 2},
  {3, 4},
  {5, 6},
 },
 c: []float64{
  {1, 0, 0},
  {2, 3, 0},
  {4, 5, 6},
 },
 beta: 2,
 ans: []float64{
  {2, 0, 0},
  {4, 6, 0},
  {8, 10, 12},
 },
},
{
 ul:    blas.Upper,
 tA:    blas.NoTrans,
 n:     3,
```

```
 k:     2,
 alpha: 3,
 a: [][]float64{
  {1, 2},
  {3, 4},
  {5, 6},
 },
 c: [][]float64{
  {1, 2, 3},
  {0, 4, 5},
  {0, 0, 6},
 },
 beta: 2,
 ans: [][]float64{
  {17, 37, 57},
  {0, 83, 127},
  {0, 0, 195},
 },
},
{
 ul:    blas.Lower,
 tA:    blas.NoTrans,
 n:     3,
 k:     2,
 alpha: 3,
 a: [][]float64{
  {1, 2},
  {3, 4},
  {5, 6},
 },
 c: [][]float64{
  {1, 0, 0},
  {2, 4, 0},
  {3, 5, 6},
 },
 beta: 2,
 ans: [][]float64{
  {17, 0, 0},
  {37, 83, 0},
  {57, 127, 195},
 },
},
{
 ul:    blas.Upper,
 tA:    blas.Trans,
 n:     3,
 k:     2,
 alpha: 3,
```

```
  a:
[][]float64{
   {1, 3, 5},
   {2, 4, 6},
  },
  c: [][]float64{
   {1, 2, 3},
   {0, 4, 5},
   {0, 0, 6},
  },
  beta: 2,
  ans: [][]float64{
   {17, 37, 57},
   {0, 83, 127},
   {0, 0, 195},
  },
 },
 {
  ul:    blas.Lower,
  tA:    blas.Trans,
  n:     3,
  k:     2,
  alpha: 3,
  a: [][]float64{
   {1, 3, 5},
   {2, 4, 6},
  },
  c: [][]float64{
   {1, 0, 0},
   {2, 4, 0},
   {3, 5, 6},
  },
  beta: 2,
  ans: [][]float64{
   {17, 0, 0},
   {37, 83, 0},
   {57, 127, 195},
  },
 },
 {
  ul:    blas.Upper,
  tA:    blas.Trans,
  n:     3,
  k:     2,
  alpha: 3,
  a: [][]float64{
   {1, 3, 5},
   {2, 4, 6},
```

```
  },
  c: []{}float64{
   {1, 2, 3},
   {0, 4, 5},
   {0, 0, 6},
  },
  beta: 0,
  ans: []{}float64{
   {15, 33, 51},
   {0, 75, 117},
   {0, 0, 183},
  },
 },
 {
  ul:    blas.Lower,
  tA:    blas.Trans,
  n:     3,
  k:     2,
  alpha: 3,
  a: []{}float64{
   {1, 3, 5},
   {2, 4, 6},
  },
  c: []{}float64{
   {1,
0, 0},
   {2, 4, 0},
   {3, 5, 6},
  },
  beta: 0,
  ans: []{}float64{
   {15, 0, 0},
   {33, 75, 0},
   {51, 117, 183},
  },
 },
} {
 aFlat := flatten(test.a)
 cFlat := flatten(test.c)
 ansFlat := flatten(test.ans)
 blasser.Dsyrk(test.ul, test.tA, test.n, test.k, test.alpha, aFlat, len(test.a[0]), test.beta, cFlat, len(test.c[0]))
 if !floats.EqualApprox(ansFlat, cFlat, 1e-14) {
  t.Errorf("Case %v. Want %v, got %v.", i, ansFlat, cFlat)
 }
}
}
graph {n1}
```

Graph{Grap5[]Grap5}
digraph{sw->sw:sw:sw}
graph{{s}s{{s}s}}
graph{Stric5{{Stric5{Stric5{Stric5}}Stric5}}Stric5}
graph{{EdgU}{EdgW}}
digraph{""[diA=""diA=""]}
graph{{{{subGra{}subGra{{subGra{}subGra}{subGra{}}}}subGra}}}
graph{Edg_}
//**
 github.com/fjl/go-ethereum@v0.6.8
 and others
**//

{{Types "GPL-2.0"}}

((
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MA 02110-1301 USA
||
see <http://www.gnu.org/licenses/>.
))
digraph{w:sw->w:sw->w:sw}
graph{{diGr_[diGr_=""]diGr_=diGr_}diGr_[diGr_=""]diGr_=diGr_}

```
graph{{{SUBB}SUBB{SUBB}}}
graph{{ST_{{ST_}}}ST_}
Graph{{{subgrap{subgrap}subgrap}{subgrap{subgrap}}{subgrap{subgrap}subgrap}}{}subgrap}
graph{"\\1"}
graph{m:h{x:m t:S}t:S}
#
graph{#
#
{#
#
#
#
{#
#
}}}
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package distuv

import (
 "math"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/floats"
)

func TestCategoricalProb(t *testing.T) {
 for _, test := range [][]float64{
  {1, 2, 3, 0},
 } {
  dist := NewCategorical(test, nil)
  norm := make([]float64, len(test))
  floats.Scale(1/floats.Sum(norm), norm)
  for i, v := range norm {
   p := dist.Prob(float64(i))
   if math.Abs(p-v) > 1e-14 {
    t.Errorf("Probability mismatch element %d", i)
   }
   p = dist.Prob(float64(i) + 0.5)
   if p != 0 {
    t.Errorf("Non-zero probability for non-integer x")
   }
  }
  p := dist.Prob(-1)
```

```
 if p != 0 {
  t.Errorf("Non-zero probability for -1")
 }
 p = dist.Prob(float64(len(test)))
 if p != 0 {
  t.Errorf("Non-zero probability for len(test)")
 }
}
}

func TestCategoricalRand(t *testing.T) {
 for _, test := range [][]float64{
  {1,
 2, 3, 0},
 } {
  dist := NewCategorical(test, nil)
  nSamples := 2000000
  counts := sampleCategorical(t, dist, nSamples)

  probs := make([]float64, len(test))
  for i := range probs {
   probs[i] = dist.Prob(float64(i))
  }
  same := samedDistCategorical(dist, counts, probs, 1e-2)
  if !same {
   t.Errorf("Probability mismatch. Want %v, got %v", probs, counts)
  }

  dist.Reweight(len(test)-1, 10)
  counts = sampleCategorical(t, dist, nSamples)
  probs = make([]float64, len(test))
  for i := range probs {
   probs[i] = dist.Prob(float64(i))
  }
  same = samedDistCategorical(dist, counts, probs, 1e-2)
  if !same {
   t.Errorf("Probability mismatch after Reweight. Want %v, got %v", probs, counts)
  }

  w := make([]float64, len(test))
  for i := range w {
   w[i] = rand.Float64()
  }

  dist.ReweightAll(w)
  counts = sampleCategorical(t, dist, nSamples)
  probs = make([]float64, len(test))
  for i := range probs {
```

```
  probs[i] = dist.Prob(float64(i))
 }
 same = samedDistCategorical(dist,
counts, probs, 1e-2)
 if !same {
  t.Errorf("Probability mismatch after ReweightAll. Want %v, got %v", probs, counts)
 }
}
}

func sampleCategorical(t *testing.T, dist Categorical, nSamples int) []float64 {
 counts := make([]float64, dist.Len())
 for i := 0; i < nSamples; i++ {
  v := dist.Rand()
  if float64(int(v)) != v {
   t.Fatalf("Random number is not an integer")
  }
  counts[int(v)]++
 }
 sum := floats.Sum(counts)
 floats.Scale(1/sum, counts)
 return counts
}

func samedDistCategorical(dist Categorical, counts, probs []float64, tol float64) bool {
 same := true
 for i, prob := range probs {
  if prob == 0 && counts[i] != 0 {
   same = false
   break
  }
  if !floats.EqualWithinAbsOrRel(prob, counts[i], tol, tol) {
   same = false
   break
  }
 }
 return same
}

func TestCategoricalCDF(t *testing.T) {
 for _, test := range [][]float64{
  {1, 2, 3, 0, 4},
 } {
  c := make([]float64, len(test))
  copy(c, test)
  floats.Scale(1/floats.Sum(c), c)
  sum := make([]float64,
```

```
 len(test))
  floats.CumSum(sum, c)

  dist := NewCategorical(test, nil)
  cdf := dist.CDF(-0.5)
  if cdf != 0 {
   t.Errorf("CDF of negative number not zero")
  }
  for i := range c {
   cdf := dist.CDF(float64(i))
   if math.Abs(cdf-sum[i]) > 1e-14 {
    t.Errorf("CDF mismatch %v. Want %v, got %v.", float64(i), sum[i], cdf)
   }
   cdfp := dist.CDF(float64(i) + 0.5)
   if cdfp != cdf {
    t.Errorf("CDF mismatch for non-integer input")
   }
  }
 }
}

func TestCategoricalEntropy(t *testing.T) {
 for _, test := range []struct {
  weights []float64
  entropy float64
 }{
  {
   weights: []float64{1, 1},
   entropy: math.Ln2,
  },
  {
   weights: []float64{1, 1, 1, 1},
   entropy: math.Log(4),
  },
  {
   weights: []float64{0, 0, 1, 1, 0, 0},
   entropy: math.Ln2,
  },
 } {
  dist := NewCategorical(test.weights, nil)
  entropy := dist.Entropy()
  if math.IsNaN(entropy) || math.Abs(entropy-test.entropy) > 1e-14 {
   t.Errorf("Entropy mismatch. Want %v, got %v.", test.entropy, entropy)
  }
 }
}

func
```

```
 TestCategoricalMean(t *testing.T) {
 for _, test := range []struct {
  weights []float64
  mean    float64
 }{
  {
   weights: []float64{10, 0, 0, 0},
   mean:    0,
  },
  {
   weights: []float64{0, 10, 0, 0},
   mean:    1,
  },
  {
   weights: []float64{1, 2, 3, 4},
   mean:    2,
  },
 } {
  dist := NewCategorical(test.weights, nil)
  mean := dist.Mean()
  if math.IsNaN(mean) || math.Abs(mean-test.mean) > 1e-14 {
   t.Errorf("Entropy mismatch. Want %v, got %v.", test.mean, mean)
  }
 }
}
```

graph{{digr7{digr4}}digr2}

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THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
graph{""--""--""--""--""--""--""--""--""--""--""--""--""--""--""/**/""--""[n=5]""--""[n=5]""--""[n=5]""--""[n=5]""--
""[n=5]""--""[n=5]""--""[n=5]}
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// Package lapack provides interfaces for the LAPACK linear algebra standard.
package lapack // import "gonum.org/v1/gonum/lapack"
graph edl{{edn}edl}
graph{{e4{{e4}{e4}e4}e4}{e4}}
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package testlapack

import (
 "math"
 "testing"

 "golang.org/x/exp/rand"
)

type Dlabrder interface {
 Dlabrd(m, n, nb int, a []float64, lda int, d, e, tauq, taup, x []float64, ldx int, y []float64, ldy int)
}

func DlabrdTest(t *testing.T, impl Dlabrder) {
 rnd := rand.New(rand.NewSource(1))
 for _, test := range []struct {
  m, n, nb, lda, ldx, ldy int
 }{
  {4, 5, 2, 0, 0, 0},
  {4, 5, 4, 0, 0, 0},
  {5, 5, 2, 0, 0, 0},
  {5, 5, 5, 0, 0, 0},
  {5, 4, 4, 0, 0, 0},
  {5, 4, 4, 0, 0, 0},

  {4, 5, 2, 10, 11, 12},
  {4, 5, 4, 10, 11, 12},

```
 {5, 5, 2, 10, 11, 12},
 {5, 5, 5, 10, 11, 12},
 {5, 4, 2, 10, 11, 12},
 {5, 4, 4, 10, 11, 12},

 {4, 5, 2, 11, 12, 10},
 {4, 5, 4, 11, 12, 10},
 {5, 5, 2, 11, 12, 10},
 {5, 5, 5, 11, 12, 10},
 {5, 4, 2, 11, 12, 10},
 {5, 4, 4, 11, 12, 10},

 {4, 5, 2, 12, 11, 10},
 {4, 5, 4, 12,
11, 10},
 {5, 5, 2, 12, 11, 10},
 {5, 5, 5, 12, 11, 10},
 {5, 4, 2, 12, 11, 10},
 {5, 4, 4, 12, 11, 10},
} {
 m := test.m
 n := test.n
 nb := test.nb
 lda := test.lda
 if lda == 0 {
  lda = n
 }
 ldy := test.ldy
 if ldy == 0 {
  ldy = nb
 }
 ldx := test.ldx
 if ldx == 0 {
  ldx = nb
 }
 a := make([]float64, m*lda)
 for i := range a {
  a[i] = rnd.NormFloat64()
 }
 d := make([]float64, nb)
 for i := range d {
  d[i] = math.NaN()
 }
 e := make([]float64, nb)
 for i := range e {
  e[i] = math.NaN()
 }
 tauP := make([]float64, nb)
```

```
  for i := range tauP {
   tauP[i] = math.NaN()
  }
  tauQ := make([]float64, nb)
  for i := range tauP {
   tauQ[i] = math.NaN()
  }
  x := make([]float64, m*ldx)
  for i := range x {
   x[i] = rnd.NormFloat64()
  }
  y := make([]float64, n*ldy)
  for i := range y {
   y[i] = rnd.NormFloat64()
  }
  aCopy := make([]float64, len(a))
  copy(aCopy, a)

  // Compute the reduction.
  impl.Dlabrd(m, n, nb, a, lda, d, e, tauQ, tauP, x,
 ldx, y, ldy)

  if m >= n && nb == n {
   tauP[n-1] = 0
  }
  if m < n && nb == m {
   tauQ[m-1] = 0
  }
  checkBidiagonal(t, m, n, nb, a, lda, d, e, tauP, tauQ, aCopy)
 }
}
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// license that can be found in the LICENSE file.

package path

import (
 "sort"

 "gonum.org/v1/gonum/graph"
 "gonum.org/v1/gonum/graph/iterator"
)

// YenKShortestPaths returns the k-shortest loopless paths from s to t in g.
// YenKShortestPaths will panic if g contains a negative edge weight.
func YenKShortestPaths(g graph.Graph, k int, s, t graph.Node) [][]graph.Node {
 _, isDirected := g.(graph.Directed)
```

```
yk := yenKSPAdjuster{
 Graph:      g,
 isDirected: isDirected,
}

if wg, ok := g.(Weighted); ok {
 yk.weight = wg.Weight
} else {
 yk.weight = UniformCost(g)
}

shortest, _ := DijkstraFrom(s, yk).To(t.ID())
switch len(shortest) {
case 0:
 return nil
case 1:
 return [][]graph.Node{shortest}
}
paths := [][]graph.Node{shortest}

var pot []yenShortest
var root []graph.Node
for i := int64(1); i < int64(k); i++ {
 for n := 0; n < len(paths[i-1])-1; n++ {
  yk.reset()

  spur
:= paths[i-1][n]
  root := append(root[:0], paths[i-1][:n+1]...)

  for _, path := range paths {
   if len(path) <= n {
    continue
   }
   ok := true
   for x := 0; x < len(root); x++ {
    if path[x].ID() != root[x].ID() {
     ok = false
     break
    }
   }
   if ok {
    yk.removeEdge(path[n].ID(), path[n+1].ID())
   }
  }

  spath, weight := DijkstraFrom(spur, yk).To(t.ID())
  if len(root) > 1 {
```

```
    var rootWeight float64
    for x := 1; x < len(root); x++ {
     w, _ := yk.weight(root[x-1].ID(), root[x].ID())
     rootWeight += w
    }
    root = append(root[:len(root)-1], spath...)
    pot = append(pot, yenShortest{root, weight + rootWeight})
   } else {
    pot = append(pot, yenShortest{spath, weight})
   }
  }

  if len(pot) == 0 {
   break
  }

  sort.Sort(byPathWeight(pot))
  best := pot[0].path
  if len(best) <= 1 {
   break
  }
  paths = append(paths, best)
  pot = pot[1:]
 }

 return paths
}

// yenShortest holds a path and its weight
 for sorting.
type yenShortest struct {
 path   []graph.Node
 weight float64
}

type byPathWeight []yenShortest

func (s byPathWeight) Len() int           { return len(s) }
func (s byPathWeight) Swap(i, j int)      { s[i], s[j] = s[j], s[i] }
func (s byPathWeight) Less(i, j int) bool { return s[i].weight < s[j].weight }

// yenKSPAdjuster allows walked edges to be omitted from a graph
// without altering the embedded graph.
type yenKSPAdjuster struct {
 graph.Graph
 isDirected bool

 // weight is the edge weight function
```

```
 // used for shortest path calculation.
 weight Weighting

 // visitedEdges holds the edges that have
 // been removed by Yen's algorithm.
 visitedEdges map[[2]int64]struct{}
}

func (g yenKSPAdjuster) From(id int64) graph.Nodes {
 nodes := graph.NodesOf(g.Graph.From(id))
 for i := 0; i < len(nodes); {
  if g.canWalk(id, nodes[i].ID()) {
   i++
   continue
  }
  nodes[i] = nodes[len(nodes)-1]
  nodes = nodes[:len(nodes)-1]
 }
 return iterator.NewOrderedNodes(nodes)
}

func
 (g yenKSPAdjuster) canWalk(u, v int64) bool {
 _, ok := g.visitedEdges[[2]int64{u, v}]
 return !ok
}

func (g yenKSPAdjuster) removeEdge(u, v int64) {
 g.visitedEdges[[2]int64{u, v}] = struct{}{}
 if g.isDirected {
  g.visitedEdges[[2]int64{v, u}] = struct{}{}
 }
}

func (g *yenKSPAdjuster) reset() {
 g.visitedEdges = make(map[[2]int64]struct{})
}

func (g yenKSPAdjuster) Weight(xid, yid int64) (w float64, ok bool) {
 return g.weight(xid, yid)
}
graph{di{di GG}}
graph{dig_{dig_{dig_}{dig_}dig_}dig_}
graph{{Grapg}}
graph{subGraph{subGrap}}
graph{"\\\\
\\\\
\\\\\\\
```

```
\\\\
sssss}\s}\\\\\\\\\
\\\\\\\\\\\\"}
graph<<=>>{{<<=>><<=>>}<<=>>{{<<=>>}<<=>>}}
graph{{digr4}}
graph{{E_{E_}}E_{E_{E_}}E_{E_}E_{E_}E_{E_}}
graph{{AAAA}AAAAA}
graph{{nN{nN{nN}nD}}nN{nN}nD}
graph{Edga}
graph{""[diG_=""]}
graph{DigraG{{DigraG{DigraD}DigraG{DigraG}DigraG{DigraG}}}}
graph{{{digrr}{digrr}digh{{{digh{{{digrr}{digrr}digr}}digrr}digr}}}}
graph{{GR_{{GR_}}}GR_}
graph{{{digra}digra{digra}digra}}
graph{{stricN}stricN{}stricN{stricN{}stricN{stricN}}}
graph{{{ED8}}ED8{{{ED8{ED8}{ED8}{ED8}{ED8}}ED8{}{ED8}}}}
graph{NODA}
graph{{{{{stR}stI}}}stI}
graph{{gr{{gr}}gr{{gr}{}}gr}}
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// Package lapack64 provides a set of convenient wrapper functions for LAPACK
// calls, as specified in the netlib standard (www.netlib.org).
//
// The native Go routines are used by default, and the Use function can be used
// to set an alternative implementation.
//
// If the type of matrix (General, Symmetric, etc.) is known and fixed, it is
// used in the wrapper signature. In many cases, however, the type of the matrix
// changes during the call to the routine, for example the matrix is symmetric on
// entry and is triangular on exit. In these cases the correct types should be checked
// in the documentation.
//
// The full set of Lapack functions is very large, and it is not clear that a
// full implementation is desirable, let alone feasible. Please open up an issue
// if there is a specific function you need and/or are
 willing to implement.
package lapack64 // import "gonum.org/v1/gonum/lapack/lapack64"
graph{b{{sua}b{sua}}}
graph{{{Digr0}Digr0}{Digr0{Digr0}Digr0{Digr0}}}
graph{{{{Gra}Gra{Gra}Gra}}Gra}
graph{"|]"{"Pa"}}
graph{{DiGrap_{{DiGrap_}{DiGrap_}}}}
graph{{No}No}
# This is the official list of people who can contribute
# (and typically have contributed) code to the gonum
```

```
# repository.
#
# The AUTHORS file lists the copyright holders; this file
# lists people.  For example, Google employees would be listed here
# but not in AUTHORS, because Google would hold the copyright.
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# When adding J Random Contributor's name to this file,
# either J's name or J's organization's name should be
# added to the AUTHORS file.
#
# Names should be added to this file like so:
#     Name <email address>
#
# Please keep the list sorted.

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Bill Gray <wgray@gogray.com>
Bill Noon <noon.bill@gmail.com>
Brendan Tracey <tracey.brendan@gmail.com>
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 <dan.kortschak@adelaide.edu.au> <dan@kortschak.io>
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// license that can be found in the LICENSE file.

```
package mathext

import (
 "math"
 "testing"
)

func TestGammaIncReg(t *testing.T) {
 for i, test := range []struct {
  a, x, want float64
 }{
  // Results computed using scipy.special.gamminc
  {0, 0, 0},
  {0.0001, 1, 0.99997805936186279},
  {0.001, 0.005, 0.99528424172333985},
  {0.01, 10, 0.99999995718295021},
  {0.1, 10, 0.99999944520142825},
  {0.25, 0.75, 0.89993651328449831},
  {0.5, 0.5, 0.68268949213708596},
  {0.5, 2, 0.95449973610364147},
  {0.75, 2.5, 0.95053039734695643},
  {1, 0.5, 0.39346934028736652},
  {1, 1, 0.63212055882855778},
  {1.5, 0.75, 0.31772966966378746},
  {2.5, 1, 0.15085496391539038},
  {3, 0.05, 2.0067493624397931e-05},
  {3, 20, 0.99999954448504946},
  {5, 50, 1},
  {7, 10, 0.86985857911751696},
  {10, 0.9, 4.2519575433351128e-08},
  {10, 5, 0.031828057306204811},
  {25, 10, 4.6949381426799868e-05},
 }
 {
  if got := GammaIncReg(test.a, test.x); math.Abs(got-test.want) > 1e-10 {
   t.Errorf("test %d GammaIncReg(%g, %g) failed: got %g want %g", i, test.a, test.x, got, test.want)
  }
 }
```

```
}

func TestGammaIncRegComp(t *testing.T) {
 for i, test := range []struct {
  a, x, want float64
 }{
  // Results computed using scipy.special.gammincc
  {0.00001, 0.075, 2.0866541002417804e-05},
  {0.0001, 1, 2.1940638138146658e-05},
  {0.001, 0.005, 0.0047157582766601536},
  {0.01, 0.9, 0.0026263432520514662},
  {0.25, 0.75, 0.10006348671550169},
  {0.5, 0.5, 0.31731050786291404},
  {0.75, 0.25, 0.65343980284081038},
  {0.9, 0.01, 0.98359881081593148},
  {1, 0, 1},
  {1, 0.075, 0.92774348632855297},
  {1, 1, 0.36787944117144233},
  {1, 10, 4.5399929762484861e-05},
  {1, math.Inf(1), 0},
  {3, 20, 4.5551495055892125e-07},
  {5, 10, 0.029252688076961127},
  {10, 3, 0.99889751186988451},
  {50, 25, 0.99999304669475242},
  {100, 10, 1},
  {500, 500, 0.49405285382921321},
  {500, 550, 0.014614408126291296},
 }
 {
  if got := GammaIncRegComp(test.a, test.x); math.Abs(got-test.want) > 1e-10 {
   t.Errorf("test %d GammaIncRegComp(%g, %g) failed: got %g want %g", i, test.a, test.x, got, test.want)
  }
 }
}

func TestGammaIncRegInv(t *testing.T) {
 for i, test := range []struct {
  a, x, want float64
 }{
  // Results computed using scipy.special.gammincinv
  {0.001, 0.99, 2.4259428385570885e-05},
  {0.01, 0.99, 0.26505255025157959},
  {0.1, 0.5, 0.00059339110446022798},
  {0.2, 0.8, 0.26354363204872067},
  {0.25, 0.5, 0.043673802352873381},
  {0.5, 0.25, 0.050765522133810789},
  {0.5, 0.5, 0.22746821155978625},
  {0.75, 0.25, 0.15340752707472377},
```

```
 {1, 0, 0},
 {1, 0.075, 0.077961541469711862},
 {1, 1, math.Inf(1)},
 {2.5, 0.99, 7.5431362346944937},
 {10, 0.5, 9.6687146147141299},
 {25, 0.01, 14.853341349420646},
 {25, 0.99, 38.076945624506337},
 {50, 0.75, 54.570620535040511},
 {100, 0.25, 93.08583383712174},
 {1000, 0.01, 927.90815979664251},
 {1000, 0.99, 1075.0328320864389},
 {10000,
0.5, 9999.6666686420485},
} {
 if got := GammaIncRegInv(test.a, test.x); math.Abs(got-test.want) > 1e-10 {
  t.Errorf("test %d GammaIncRegInv(%g, %g) failed: got %g want %g", i, test.a, test.x, got, test.want)
 }
}
}

func TestGammaIncRegCompInv(t *testing.T) {
 for i, test := range []struct {
  a, x, want float64
 }{
  // Results computed using scipy.special.gamminccinv
  {0.001, 0.01, 2.4259428385570885e-05},
  {0.01, 0.01, 0.26505255025158292},
  {0.03, 0.4, 2.316980536227699e-08},
  {0.1, 0.5, 0.00059339110446022798},
  {0.1, 0.75, 5.7917132949696076e-07},
  {0.25, 0.25, 0.26062600197823282},
  {0.5, 0.1, 1.3527717270477047},
  {0.5, 0.5, 0.22746821155978625},
  {0.75, 0.25, 1.0340914067758025},
  {1, 0, math.Inf(1)},
  {1, 0.5, 0.69314718055994529},
  {1, 1, 0},
  {3, 0.75, 1.727299417860519},
  {25, 0.4, 25.945791937289371},
  {25, 0.7, 22.156653488661991},
  {10, 0.5, 9.6687146147141299},
  {100, 0.25, 106.5510925269767},
  {1000, 0.01, 1075.0328320864389},
  {1000,
0.99, 927.90815979664251},
  {10000, 0.5, 9999.6666686420485},
 } {
  if got := GammaIncRegCompInv(test.a, test.x); math.Abs(got-test.want) > 1e-10 {
```

```
  t.Errorf("test %d GammaIncRegCompInv(%g, %g) failed: got %g want %g", i, test.a, test.x, got, test.want)
  }
 }
}
graph{NOO}
graph{{ST6{ST6}ST6}}
Graph{subgrapA{{subgrapA}subgrapA}}
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// license that can be found in the LICENSE file.

package testlapack

import (
 "fmt"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
)

type Dlauu2er interface {
 Dlauu2(uplo blas.Uplo, n int, a []float64, lda int)
}

func Dlauu2Test(t *testing.T, impl Dlauu2er) {
 for _, uplo := range []blas.Uplo{blas.Upper, blas.Lower} {
  name := "Upper"
  if uplo == blas.Lower {
   name = "Lower"
  }
  t.Run(name, func(t *testing.T) {
   ns := []int{0, 1, 2, 3, 4, 5, 10, 25}
   dlauuTest(t, impl.Dlauu2, uplo, ns)
  })
 }
}

func dlauuTest(t *testing.T, dlauu func(blas.Uplo, int, []float64, int), uplo blas.Uplo, ns []int) {
 const tol = 1e-13

 bi := blas64.Implementation()
 rnd := rand.New(rand.NewSource(1))

 for _, n := range ns {
  for _, lda := range []int{max(1, n), n + 11} {
```

```
  prefix := fmt.Sprintf("n=%v,lda=%v", n, lda)

  // Allocate
nn matrix A and fill it with random numbers.
  // Only its uplo triangle will be used below.
  a := make([]float64, n*lda)
  for i := range a {
   a[i] = rnd.NormFloat64()
  }
  // Create a copy of A.
  aCopy := make([]float64, len(a))
  copy(aCopy, a)

  // Compute U*U or L*L using Dlauu?.
  dlauu(uplo, n, a, lda)

  if n == 0 {
   continue
  }

  // * Check that the triangle of A opposite to uplo has not been modified.
  // * Convert the result of Dlauu? into a dense symmetric matrix.
  // * Zero out the triangle in aCopy opposite to uplo.
  if uplo == blas.Upper {
   if !sameLowerTri(n, aCopy, lda, a, lda) {
    t.Errorf("%v: unexpected modification in lower triangle", prefix)
    continue
   }
   for i := 1; i < n; i++ {
    for j := 0; j < i; j++ {
     a[i*lda+j] = a[j*lda+i]
     aCopy[i*lda+j] = 0
    }
   }
  } else {
   if !sameUpperTri(n, aCopy, lda, a, lda) {
    t.Errorf("%v: unexpected modification in upper triangle", prefix)
    continue
   }
   for
i := 0; i < n-1; i++ {
    for j := i + 1; j < n; j++ {
     a[i*lda+j] = a[j*lda+i]
     aCopy[i*lda+j] = 0
    }
   }
  }
```

```
   // Compute U*U or L*L using Dgemm with U and L
   // represented as dense triangular matrices.
   ldwant := n
   want := make([]float64, n*ldwant)
   if uplo == blas.Upper {
    // Use aCopy as a dense representation of the upper triangular U.
    u := aCopy
    ldu := lda
    // Compute U * U and store the result into want.
    bi.Dgemm(blas.NoTrans, blas.Trans, n, n, n,
     1, u, ldu, u, ldu, 0, want, ldwant)
   } else {
    // Use aCopy as a dense representation of the lower triangular L.
    l := aCopy
    ldl := lda
    // Compute L * L and store the result into want.
    bi.Dgemm(blas.Trans, blas.NoTrans, n, n, n,
     1, l, ldl, l, ldl, 0, want, ldwant)
   }
   if !equalApprox(n, n, a, lda, want, tol) {
    t.Errorf("%v: unexpected result", prefix)
   }
  }
 }
}
graph{{gr4}gr7{{{{gr4}gr4}gr7{gr4}}}}
// Derived from SciPy's special/c_misc/fsolve.c and special/c_misc/misc.h
// https://github.com/scipy/scipy/blob/master/scipy/special/c_misc/fsolve.c
// https://github.com/scipy/scipy/blob/master/scipy/special/c_misc/misc.h

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// license that can be found in the LICENSE file.

package mathext

import "math"

type objectiveFunc func(float64, []float64) float64

type fSolveResult uint8

const (
 // An exact solution was found, in which case the first point on the
 // interval is the value
 fSolveExact fSolveResult = iota + 1
 // Interval width is less than the tolerance
 fSolveConverged
```

```
 // Root-finding didn't converge in a set number of iterations
 fSolveMaxIterations
)

const (
 machEp = 1.0 / (1 << 53)
)

// falsePosition uses a combination of bisection and false position to find a
// root of a function within a given interval. This is guaranteed to converge,
// and always keeps
 a bounding interval, unlike Newton's method. Inputs are:
//  x1, x2:   initial bounding interval
//  f1, f2: value of f() at x1 and x2
//  absErr, relErr: absolute and relative errors on the bounding interval
//  bisectTil: if > 0.0, perform bisection until the width of the bounding
//            interval is less than this
//  f, fExtra: function to find root of is f(x, fExtra)
// Returns:
//  result: whether an exact root was found, the process converged to a
//         bounding interval small than the required error, or the max number
//         of iterations was hit
//  bestX: best root approximation
//  bestF: function value at bestX
//  errEst: error estimation
func falsePosition(x1, x2, f1, f2, absErr, relErr, bisectTil float64, f objectiveFunc, fExtra []float64) (fSolveResult,
float64, float64, float64) {
 // The false position steps are either unmodified, or modified with the
 // Anderson-Bjorck method as appropriate. Theoretically, this has a "speed of
 // convergence" of
 1.7 (bisection is 1, Newton is 2).
 // Note that this routine was designed initially to work with gammaincinv, so
 // it may not be tuned right for other problems. Don't use it blindly.

 if f1*f2 >= 0 {
  panic("Initial interval is not a bounding interval")
 }

 const (
  maxIterations = 100
  bisectIter    = 4
  bisectWidth   = 4.0
 )

 const (
  bisect = iota + 1
  falseP
 )
```

```
var state uint8
if bisectTil > 0 {
 state = bisect
} else {
 state = falseP
}

gamma := 1.0

w := math.Abs(x2 - x1)
lastBisectWidth := w

var nFalseP int
var x3, f3, bestX, bestF float64
for i := 0; i < maxIterations; i++ {
 switch state {
 case bisect:
  x3 = 0.5 * (x1 + x2)
  if x3 == x1 || x3 == x2 {
   // i.e., x1 and x2 are successive floating-point numbers
   bestX = x3
   if x3 == x1 {
    bestF = f1
   } else {
    bestF = f2
   }
   return fSolveConverged, bestX, bestF, w
  }

  f3 = f(x3, fExtra)
  if f3 == 0 {
   return fSolveExact, x3, f3, w
  }

  if f3*f2 < 0 {
   x1
= x2
   f1 = f2
  }
  x2 = x3
  f2 = f3
  w = math.Abs(x2 - x1)
  lastBisectWidth = w
  if bisectTil > 0 {
   if w < bisectTil {
    bisectTil = -1.0
    gamma = 1.0
```

```
   nFalseP = 0
   state = falseP
  }
 } else {
  gamma = 1.0
  nFalseP = 0
  state = falseP
 }
case falseP:
 s12 := (f2 - gamma*f1) / (x2 - x1)
 x3 = x2 - f2/s12
 f3 = f(x3, fExtra)
 if f3 == 0 {
  return fSolveExact, x3, f3, w
 }

 nFalseP++
 if f3*f2 < 0 {
  gamma = 1.0
  x1 = x2
  f1 = f2
 } else {
  // Anderson-Bjorck method
  g := 1.0 - f3/f2
  if g <= 0 {
   g = 0.5
  }
  gamma *= g
 }
 x2 = x3
 f2 = f3
 w = math.Abs(x2 - x1)

 // Sanity check. For every 4 false position checks, see if we really are
 // decreasing the interval by comparing to what bisection would have
 // achieved (or, rather, a bit more lenient than that -- interval
 // decreased by 4 instead of by 16, as the fp could be decreasing gamma
 // for a bit). Note that this
should guarantee convergence, as it makes
 // sure that we always end up decreasing the interval width with a
 // bisection.
 if nFalseP > bisectIter {
  if w*bisectWidth > lastBisectWidth {
   state = bisect
  }
  nFalseP = 0
  lastBisectWidth = w
 }
```

```
  }

  tol := absErr + relErr*math.Max(math.Max(math.Abs(x1), math.Abs(x2)), 1.0)
  if w <= tol {
   if math.Abs(f1) < math.Abs(f2) {
    bestX = x1
    bestF = f1
   } else {
    bestX = x2
    bestF = f2
   }
   return fSolveConverged, bestX, bestF, w
  }
 }

 return fSolveMaxIterations, x3, f3, w
}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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// license that can be found in the LICENSE file.

package unit

import (
 "errors"
 "fmt"
 "math"
 "unicode/utf8"
)

// Voltage represents a voltage in Volts.
type Voltage float64

const Volt Voltage = 1

// Unit converts the Voltage to a *Unit
func (v Voltage) Unit() *Unit {
 return New(float64(v), Dimensions{
  CurrentDim: -1,
  LengthDim:  2,
  MassDim:    1,
  TimeDim:    -3,
 })
}

// Voltage allows Voltage to implement a Voltager interface
```

```
func (v Voltage) Voltage() Voltage {
 return v
}

// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (v *Voltage) From(u Uniter) error {
 if !DimensionsMatch(u, Volt) {
  *v = Voltage(math.NaN())
  return errors.New("Dimension mismatch")
 }
 *v = Voltage(u.Unit().Value())
 return nil
}

func (v Voltage)
 Format(fs fmt.State, c rune) {
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", v, float64(v))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " V"
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(v))
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(v))
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(v))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(v))
  }
  fmt.Fprint(fs, unit)
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g V)", c, v, float64(v))
 }
}
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// license that can be found in the LICENSE file.

package distuv
```

```
import (
 "math"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/mathext"
)

// ChiSquared implements the  distribution, a one parameter distribution
// with support on the positive numbers.
//
// The density function is given by
//  1/(2^{k/2} * (k/2)) * x^{k/2 - 1} * e^{-x/2}
// It is a special case of the Gamma distribution, (k/2, 1/2).
//
// For more information, see https://en.wikipedia.org/wiki/Chi-squared_distribution.
type ChiSquared struct {
 // K is the shape parameter, corresponding to the degrees of freedom. Must
 // be greater than 0.
 K float64

 Src rand.Source
}

// CDF computes the value of the cumulative density function at x.
func (c ChiSquared) CDF(x float64) float64 {
 return mathext.GammaIncReg(c.K/2, x/2)
}

// ExKurtosis returns the excess kurtosis of the distribution.
func (c ChiSquared)
 ExKurtosis() float64 {
 return 12 / c.K
}

// LogProb computes the natural logarithm of the value of the probability
// density function at x.
func (c ChiSquared) LogProb(x float64) float64 {
 if x < 0 {
  return math.Inf(-1)
 }
 lg, _ := math.Lgamma(c.K / 2)
 return (c.K/2-1)*math.Log(x) - x/2 - (c.K/2)*math.Ln2 - lg
}

// Mean returns the mean of the probability distribution.
func (c ChiSquared) Mean() float64 {
```

```
 return c.K
}

// Mode returns the mode of the distribution.
func (c ChiSquared) Mode() float64 {
 return math.Min(c.K-2, 0)
}

// NumParameters returns the number of parameters in the distribution.
func (c ChiSquared) NumParameters() int {
 return 1
}

// Prob computes the value of the probability density function at x.
func (c ChiSquared) Prob(x float64) float64 {
 return math.Exp(c.LogProb(x))
}

// Rand returns a random sample drawn from the distribution.
func (c ChiSquared) Rand() float64 {
 return Gamma{c.K / 2, 0.5, c.Src}.Rand()
}

// Quantile returns the inverse of
 the cumulative distribution function.
func (c ChiSquared) Quantile(p float64) float64 {
 if p < 0 || p > 1 {
  panic(badPercentile)
 }
 return mathext.GammaIncRegInv(0.5*c.K, p) * 2
}

// StdDev returns the standard deviation of the probability distribution.
func (c ChiSquared) StdDev() float64 {
 return math.Sqrt(c.Variance())
}

// Survival returns the survival function (complementary CDF) at x.
func (c ChiSquared) Survival(x float64) float64 {
 if x < 0 {
  return 1
 }
 return mathext.GammaIncRegComp(0.5*c.K, 0.5*x)
}

// Variance returns the variance of the probability distribution.
func (c ChiSquared) Variance() float64 {
 return 2 * c.K
```

```
}
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// license that can be found in the LICENSE file.

package optimize

const (
 defaultBacktrackingContraction = 0.5
 defaultBacktrackingDecrease    = 1e-4
 minimumBacktrackingStepSize    = 1e-20
)

// Backtracking is a Linesearcher that uses backtracking to find a point that
// satisfies the Armijo condition with the given decrease factor. If the Armijo
// condition has not been met, the step size is decreased by ContractionFactor.
//
// The Armijo condition only requires the gradient at the beginning of each
// major iteration (not at successive step locations), and so Backtracking may
// be a good linesearch for functions with expensive gradients. Backtracking is
// not appropriate for optimizers that require the Wolfe conditions to be met,
// such as BFGS.
//
// Both DecreaseFactor and ContractionFactor must be between zero and one, and
// Backtracking will panic otherwise.
 If either DecreaseFactor or
// ContractionFactor are zero, it will be set to a reasonable default.
type Backtracking struct {
 DecreaseFactor    float64 // Constant factor in the sufficient decrease (Armijo) condition.
 ContractionFactor float64 // Step size multiplier at each iteration (step *= ContractionFactor).

 stepSize float64
 initF    float64
 initG    float64

 lastOp Operation
}

func (b *Backtracking) Init(f, g float64, step float64) Operation {
 if step <= 0 {
  panic("backtracking: bad step size")
 }
 if g >= 0 {
  panic("backtracking: initial derivative is non-negative")
 }

 if b.ContractionFactor == 0 {
  b.ContractionFactor = defaultBacktrackingContraction
```

```
 }
 if b.DecreaseFactor == 0 {
  b.DecreaseFactor = defaultBacktrackingDecrease
 }
 if b.ContractionFactor <= 0 || b.ContractionFactor >= 1 {
  panic("backtracking: ContractionFactor must be between 0 and 1")
 }
 if b.DecreaseFactor <= 0 || b.DecreaseFactor >= 1 {
  panic("backtracking: DecreaseFactor must be between
 0 and 1")
 }

 b.stepSize = step
 b.initF = f
 b.initG = g

 b.lastOp = FuncEvaluation
 return b.lastOp
}

func (b *Backtracking) Iterate(f, _ float64) (Operation, float64, error) {
 if b.lastOp != FuncEvaluation {
  panic("backtracking: Init has not been called")
 }

 if ArmijoConditionMet(f, b.initF, b.initG, b.stepSize, b.DecreaseFactor) {
  b.lastOp = MajorIteration
  return b.lastOp, b.stepSize, nil
 }
 b.stepSize *= b.ContractionFactor
 if b.stepSize < minimumBacktrackingStepSize {
  b.lastOp = NoOperation
  return b.lastOp, b.stepSize, ErrLinesearcherFailure
 }
 b.lastOp = FuncEvaluation
 return b.lastOp, b.stepSize, nil
}
graph{"\Z"{"\Z"}}
graph{{{subgrapu{subgrapu}subgrapu{subgrapu}}}}
graph{{{{subgr}subgr}gr}subgr}
graph{diGraX[diGraZ=""]}
Graph{{{Subgz}Subgt{Subgz}}}
graph{{noc}noc}
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// license that can be found in the LICENSE file.

// Package math32 provides float32 versions of standard library math package
```

```
// routines used by gonum/blas/native.
package math32 // import "gonum.org/v1/gonum/internal/math32"
graph{{Digp{{Digp{Digp{Digp{Digp}}}Digg}{Digp{Digp}}}Digg}}
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// license that can be found in the LICENSE file.

package testlapack

import (
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas/blas64"
 "gonum.org/v1/gonum/floats"
 "gonum.org/v1/gonum/lapack"
)

type Dorgbrer interface {
 Dorgbr(vect lapack.GenOrtho, m, n, k int, a []float64, lda int, tau, work []float64, lwork int)
 Dgebrder
}

func DorgbrTest(t *testing.T, impl Dorgbrer) {
 rnd := rand.New(rand.NewSource(1))
 for _, vect := range []lapack.GenOrtho{lapack.GenerateQ, lapack.GeneratePT} {
  for _, test := range []struct {
   m, n, k, lda int
  }{
   {5, 5, 5, 0},
   {5, 5, 3, 0},
   {5, 3, 5, 0},
   {3, 5, 5, 0},
   {3, 4, 5, 0},
   {3, 5, 4, 0},
   {4, 3, 5, 0},
   {4, 5, 3, 0},
   {5, 3, 4, 0},
   {5, 4, 3, 0},

   {5, 5, 5, 10},
   {5, 5, 3, 10},
   {5, 3, 5, 10},
   {3, 5, 5, 10},
   {3, 4, 5, 10},
   {3, 5, 4, 10},
   {4, 3, 5, 10},
```

```
 {4, 5, 3, 10},
 {5,
3, 4, 10},
 {5, 4, 3, 10},
} {
 m := test.m
 n := test.n
 k := test.k
 lda := test.lda
 // Filter out bad tests
 if vect == lapack.GenerateQ {
  if m < n || n < min(m, k) || m < min(m, k) {
   continue
  }
 } else {
  if n < m || m < min(n, k) || n < min(n, k) {
   continue
  }
 }
 // Sizes for Dorgbr.
 var ma, na int
 if vect == lapack.GenerateQ {
  if m >= k {
   ma = m
   na = k
  } else {
   ma = m
   na = m
  }
 } else {
  if n >= k {
   ma = k
   na = n
  } else {
   ma = n
   na = n
  }
 }
 // a eventually needs to store either P or Q, so it must be
 // sufficiently big.
 var a []float64
 if vect == lapack.GenerateQ {
  lda = max(m, lda)
  a = make([]float64, m*lda)
 } else {
  lda = max(n, lda)
  a = make([]float64, n*lda)
 }
```

```
 for i := range a {
  a[i] = rnd.NormFloat64()
 }

 nTau := min(ma, na)
 tauP := make([]float64, nTau)
 tauQ := make([]float64, nTau)
 d := make([]float64,
nTau)
 e := make([]float64, nTau)
 lwork := -1
 work := make([]float64, 1)
 impl.Dgebrd(ma, na, a, lda, d, e, tauQ, tauP, work, lwork)
 work = make([]float64, int(work[0]))
 lwork = len(work)
 impl.Dgebrd(ma, na, a, lda, d, e, tauQ, tauP, work, lwork)

 aCopy := make([]float64, len(a))
 copy(aCopy, a)

 var tau []float64
 if vect == lapack.GenerateQ {
  tau = tauQ
 } else {
  tau = tauP
 }

 impl.Dorgbr(vect, m, n, k, a, lda, tau, work, -1)
 work = make([]float64, int(work[0]))
 lwork = len(work)
 impl.Dorgbr(vect, m, n, k, a, lda, tau, work, lwork)

 var ans blas64.General
 var nRows, nCols int
 equal := true
 if vect == lapack.GenerateQ {
  nRows = m
  nCols = m
  if m >= k {
   nCols = n
  }
  ans = constructQPBidiagonal(lapack.ApplyQ, ma, na, min(m, k), aCopy, lda, tau)
 } else {
  nRows = n
  if k < n {
   nRows = m
  }
  nCols = n
```

```
    ansTmp := constructQPBidiagonal(lapack.ApplyP, ma, na, min(k, n), aCopy,
 lda, tau)
    // Dorgbr actually computes P
    ans = transposeGeneral(ansTmp)
   }
   for i := 0; i < nRows; i++ {
    for j := 0; j < nCols; j++ {
     if !floats.EqualWithinAbsOrRel(a[i*lda+j], ans.Data[i*ans.Stride+j], 1e-8, 1e-8) {
      equal = false
     }
    }
   }
   if !equal {
    t.Errorf("Extracted matrix mismatch. gen = %v, m = %v, n = %v, k = %v", string(vect), m, n, k)
   }
  }
 }
}
graph{{{{{{subgb{{subgb{}subgf}}}}}}}
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// license that can be found in the LICENSE file.

package testlapack

import (
 "fmt"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
)

type Dsytrder interface {
 Dsytrd(uplo blas.Uplo, n int, a []float64, lda int, d, e, tau, work []float64, lwork int)

 Dorgqr(m, n, k int, a []float64, lda int, tau, work []float64, lwork int)
 Dorgql(m, n, k int, a []float64, lda int, tau, work []float64, lwork int)
}

func DsytrdTest(t *testing.T, impl Dsytrder) {
 const tol = 1e-13
 rnd := rand.New(rand.NewSource(1))
 for tc, test := range []struct {
  n, lda int
 }{
```

```
 {1, 0},
 {2, 0},
 {3, 0},
 {4, 0},
 {10, 0},
 {50, 0},
 {100, 0},
 {150, 0},
 {300, 0},

 {1, 3},
 {2, 3},
 {3, 7},
 {4, 9},
 {10, 20},
 {50, 70},
 {100, 120},
 {150, 170},
 {300, 320},
} {
 for _, uplo := range []blas.Uplo{blas.Upper, blas.Lower} {
  for
_, wl := range []worklen{minimumWork, mediumWork, optimumWork} {
   n := test.n
   lda := test.lda
   if lda == 0 {
    lda = n
   }
   a := randomGeneral(n, n, lda, rnd)
   for i := 1; i < n; i++ {
    for j := 0; j < i; j++ {
     a.Data[i*a.Stride+j] = a.Data[j*a.Stride+i]
    }
   }
   aCopy := cloneGeneral(a)

   d := nanSlice(n)
   e := nanSlice(n - 1)
   tau := nanSlice(n - 1)

   var lwork int
   switch wl {
   case minimumWork:
    lwork = 1
   case mediumWork:
    work := make([]float64, 1)
    impl.Dsytrd(uplo, n, a.Data, a.Stride, d, e, tau, work, -1)
    lwork = (int(work[0]) + 1) / 2
```

```
 lwork = max(1, lwork)
case optimumWork:
 work := make([]float64, 1)
 impl.Dsytrd(uplo, n, a.Data, a.Stride, d, e, tau, work, -1)
 lwork = int(work[0])
}
work := make([]float64, lwork)

impl.Dsytrd(uplo, n, a.Data, a.Stride, d, e, tau, work, lwork)

prefix := fmt.Sprintf("Case #%v: uplo=%v,n=%v,lda=%v,work=%v",
 tc, uplo, n, lda,
wl)

if !generalOutsideAllNaN(a) {
 t.Errorf("%v: out-of-range write to A", prefix)
}

// Extract Q by doing what Dorgtr does.
q := cloneGeneral(a)
if uplo == blas.Upper {
 for j := 0; j < n-1; j++ {
  for i := 0; i < j; i++ {
   q.Data[i*q.Stride+j] = q.Data[i*q.Stride+j+1]
  }
  q.Data[(n-1)*q.Stride+j] = 0
 }
 for i := 0; i < n-1; i++ {
  q.Data[i*q.Stride+n-1] = 0
 }
 q.Data[(n-1)*q.Stride+n-1] = 1
 if n > 1 {
  work = make([]float64, n-1)
  impl.Dorgql(n-1, n-1, n-1, q.Data, q.Stride, tau, work, len(work))
 }
} else {
 for j := n - 1; j > 0; j-- {
  q.Data[j] = 0
  for i := j + 1; i < n; i++ {
   q.Data[i*q.Stride+j] = q.Data[i*q.Stride+j-1]
  }
 }
 q.Data[0] = 1
 for i := 1; i < n; i++ {
  q.Data[i*q.Stride] = 0
 }
 if n > 1 {
  work = make([]float64, n-1)
```

```
      impl.Dorgqr(n-1, n-1, n-1, q.Data[q.Stride+1:], q.Stride, tau, work, len(work))
     }
    }
    if
 !isOrthogonal(q) {
     t.Errorf("%v: Q not orthogonal", prefix)
    }

    // Contruct symmetric tridiagonal T from d and e.
    tMat := zeros(n, n, n)
    for i := 0; i < n; i++ {
     tMat.Data[i*tMat.Stride+i] = d[i]
    }
    if uplo == blas.Upper {
     for j := 1; j < n; j++ {
      tMat.Data[(j-1)*tMat.Stride+j] = e[j-1]
      tMat.Data[j*tMat.Stride+j-1] = e[j-1]
     }
    } else {
     for j := 0; j < n-1; j++ {
      tMat.Data[(j+1)*tMat.Stride+j] = e[j]
      tMat.Data[j*tMat.Stride+j+1] = e[j]
     }
    }

    // Compute Q * A * Q.
    tmp := zeros(n, n, n)
    blas64.Gemm(blas.Trans, blas.NoTrans, 1, q, aCopy, 0, tmp)
    got := zeros(n, n, n)
    blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, tmp, q, 0, got)

    // Compare with T.
    if !equalApproxGeneral(got, tMat, tol) {
     t.Errorf("%v: Q*A*Q != T", prefix)
    }
   }
  }
 }
}
graph{{{{Gra_}Gra_=Gra_}Gra_{Gra_{Gra_}Gra_}Gra_}Gra_}
/** * * * * * * * */graph""{e[e=""l="\N"e=""h=""t=""r=""][r=""]/**/""--""--""--""--""--""[r=""n=6]""--""[r=""t=""]""-
-""[r=""t=""]""--""[r=""t=""]""--""[r=""t=""]""--""[r=""t=""]""--""--""--""--""--""}
graph{{{{Subg{Subg}Subg}{Subg{Subg}Subg}Subg}Subg}{Subg}}
graph{Nodd{Nodd{{Nodd}{Nodd{{Nodd}Nodd}}}}}
// Derived from SciPy's special/cephes/polevl.h
// https://github.com/scipy/scipy/blob/master/scipy/special/cephes/polevl.h
// Made freely available by Stephen L. Moshier without support or guarantee.
```

```
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package cephes

import "math"

// polevl evaluates a polynomial of degree N
//  y = c_0 + c_1 x_1 + c_2 x_2^2 ...
// where the coefficients are stored in reverse order, i.e. coef[0] = c_n and
// coef[n] = c_0.
func polevl(x float64, coef []float64, n int) float64 {
 ans := coef[0]
 for i := 1; i <= n; i++ {
  ans = ans*x + coef[i]
 }
 return ans
}

// p1evl is the same as polevl, except c_n is assumed to be 1 and is not included
// in the slice.
func p1evl(x float64, coef []float64, n int) float64 {
 ans := x + coef[0]
 for i := 1; i <= n-1; i++ {
  ans = ans*x + coef[i]
 }
 return
 ans
}

// ratevl evaluates a rational function
func ratevl(x float64, num []float64, m int, denom []float64, n int) float64 {
 // Source: Holin et. al., "Polynomial and Rational Function Evaluation",
 // http://www.boost.org/doc/libs/1_61_0/libs/math/doc/html/math_toolkit/roots/rational.html
 absx := math.Abs(x)

 var dir, idx int
 var y float64
 if absx > 1 {
  // Evaluate as a polynomial in 1/x
  dir = -1
  idx = m
  y = 1 / x
 } else {
  dir = 1
  idx = 0
```

```
 y = x
}

// Evaluate the numerator
numAns := num[idx]
idx += dir
for i := 0; i < m; i++ {
 numAns = numAns*y + num[idx]
 idx += dir
}

// Evaluate the denominator
if absx > 1 {
 idx = n
} else {
 idx = 0
}

denomAns := denom[idx]
idx += dir
for i := 0; i < n; i++ {
 denomAns = denomAns*y + denom[idx]
 idx += dir
}

if absx > 1 {
 pow := float64(n - m)
 return math.Pow(x, pow) * numAns / denomAns
}
return numAns / denomAns
}
// SPDX-License-Identifier: Unlicense OR MIT

package input

import (
 "encoding/binary"
 "time"

 "gioui.org/internal/opconst"
 "gioui.org/internal/ops"
 "gioui.org/io/event"
 "gioui.org/io/key"
 "gioui.org/io/pointer"
 "gioui.org/io/profile"
 "gioui.org/op"
)
```

```
// Router is a Queue implementation that routes events from
// all available input sources to registered handlers.
type Router struct {
 pqueue pointerQueue
 kqueue keyQueue

 handlers handlerEvents

 reader ops.Reader

 // InvalidateOp summary.
 wakeup     bool
 wakeupTime time.Time

 // ProfileOp summary.
 profiling    bool
 profHandlers map[event.Key]struct{}
 profile      profile.Event
}

type handlerEvents struct {
 handlers  map[event.Key][]event.Event
 hadEvents bool
}

func (q *Router) Events(k event.Key) []event.Event {
 events := q.handlers.Events(k)
 if _, isprof := q.profHandlers[k]; isprof {
  delete(q.profHandlers, k)
  events = append(events, q.profile)
 }
 return events
}

func (q *Router) Frame(ops *op.Ops) {
 q.handlers.Clear()
 q.wakeup
 = false
 q.profiling = false
 for k := range q.profHandlers {
  delete(q.profHandlers, k)
 }
 q.reader.Reset(ops)
 q.collect()

 q.pqueue.Frame(ops, &q.handlers)
 q.kqueue.Frame(ops, &q.handlers)
 if q.handlers.HadEvents() {
```

```
  q.wakeup = true
  q.wakeupTime = time.Time{}
 }
}

func (q *Router) Add(e event.Event) bool {
 switch e := e.(type) {
 case pointer.Event:
  q.pqueue.Push(e, &q.handlers)
 case key.EditEvent, key.Event, key.FocusEvent:
  q.kqueue.Push(e, &q.handlers)
 }
 return q.handlers.HadEvents()
}

func (q *Router) TextInputState() TextInputState {
 return q.kqueue.InputState()
}

func (q *Router) collect() {
 for encOp, ok := q.reader.Decode(); ok; encOp, ok = q.reader.Decode() {
  switch opconst.OpType(encOp.Data[0]) {
  case opconst.TypeInvalidate:
   op := decodeInvalidateOp(encOp.Data)
   if !q.wakeup || op.At.Before(q.wakeupTime) {
    q.wakeup = true
    q.wakeupTime = op.At
   }
  case opconst.TypeProfile:
   op := decodeProfileOp(encOp.Data,
 encOp.Refs)
   if q.profHandlers == nil {
    q.profHandlers = make(map[event.Key]struct{})
   }
   q.profiling = true
   q.profHandlers[op.Key] = struct{}{}
  }
 }
}

func (q *Router) AddProfile(profile profile.Event) {
 q.profile = profile
}

func (q *Router) Profiling() bool {
 return q.profiling
}
```

```
func (q *Router) WakeupTime() (time.Time, bool) {
 return q.wakeupTime, q.wakeup
}

func (h *handlerEvents) init() {
 if h.handlers == nil {
  h.handlers = make(map[event.Key][]event.Event)
 }
}

func (h *handlerEvents) Set(k event.Key, evts []event.Event) {
 h.init()
 h.handlers[k] = evts
 h.hadEvents = true
}

func (h *handlerEvents) Add(k event.Key, e event.Event) {
 h.init()
 h.handlers[k] = append(h.handlers[k], e)
 h.hadEvents = true
}

func (h *handlerEvents) HadEvents() bool {
 u := h.hadEvents
 h.hadEvents = false
 return u
}

func (h *handlerEvents) Events(k event.Key) []event.Event {
 if events, ok := h.handlers[k]; ok {
  h.handlers[k] = h.handlers[k][:0]
  // Schedule another
 frame if we delivered events to the user
  // to flush half-updated state. This is important when a an
  // event changes UI state that has already been laid out. In
  // the worst case, we waste a frame, increasing power usage.
  //
  // Gio is expected to grow the ability to construct
  // frame-to-frame differences and only render to changed
  // areas. In that case, the waste of a spurious frame should
  // be minimal.
  h.hadEvents = h.hadEvents || len(events) > 0
  return events
 }
 return nil
}

func (h *handlerEvents) Clear() {
```

```
 for k := range h.handlers {
  delete(h.handlers, k)
 }
}

func decodeProfileOp(d []byte, refs []interface{}) profile.Op {
 if opconst.OpType(d[0]) != opconst.TypeProfile {
  panic("invalid op")
 }
 return profile.Op{
  Key: refs[0].(event.Key),
 }
}

func decodeInvalidateOp(d []byte) op.InvalidateOp {
 bo := binary.LittleEndian
 if opconst.OpType(d[0]) != opconst.TypeInvalidate {
  panic("invalid op")
 }
 var o op.InvalidateOp
 if nanos := bo.Uint64(d[1:]);
 nanos > 0 {
  o.At = time.Unix(0, int64(nanos))
 }
 return o
}
graph{{{{S{{{S}}S}}}{{{{S}}S}}{S{{{S}}S}}{}{S{{S}}S}}{S{{}S}}{S{{{}{{{{S}}S}}{S{{{S}}S}}{}{S
{{S}}S}}{S{{}S}}{S{{{}}{S{{{}}S}}S{{{S}}S}}}{{{}}{}{S{{S}}S}}{S{e}S{{S}}S}}{S{{{S}}S}{}{S}}{S{
{{}}S}}S{{{S}}S}}}{{{}}{}{S{{S}}S}}{S{{}S{{S}}S}}{S{{{S}}S}{}{S{{S}}S}}{S{{}S}}{S{{{}}{S}}}{{S
{{{}}}}}{}}}
graph{{D_{{{D_{{D_}}}D_}}}}
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// This file must be kept in sync with array_bound_checks.go.

// +build !bounds

package fftpack

// The types in array.go implement Fortran-like arrays for bootstrapping
// the implementation of the FFT functions translated from FFTPACK; they
// are column-major.

type twoArray struct {
 jStride int
 data    []float64
```

```
}

func newTwoArray(i, j int, data []float64) twoArray {
 if len(data) < i*j {
  panic("fourier: short data")
 }
 return twoArray{
  jStride: i,
  data:    data[:i*j],
 }
}

func (a twoArray) at(i, j int) float64 {
 return a.data[i+a.jStride*j]
}

func (a twoArray) set(i, j int, v float64) {
 a.data[i+a.jStride*j] = v
}

func (a twoArray) add(i, j int, v float64) {
 a.data[i+a.jStride*j] += v
}

type threeArray struct {
 jStride, kStride int
 data            []float64
}

func newThreeArray(i, j, k int, data []float64)
 threeArray {
 if len(data) < i*j*k {
  panic("fourier: short data")
 }
 return threeArray{
  jStride: i,
  kStride: i * j,
  data:    data[:i*j*k],
 }
}

func (a threeArray) at(i, j, k int) float64 {
 return a.data[i+a.jStride*j+a.kStride*k]
}

func (a threeArray) set(i, j, k int, v float64) {
 a.data[i+a.jStride*j+a.kStride*k] = v
}
```

```
graph{suF}
graph{Nodr{Nodr}Nodr}
graph{{Digr_{Digr_}Digr_{Digr_}}}
graph{G:nw nw:nw K:nw nw:nw}
graph{--}
graph{{diGo}diGh{diGo}{diGo}}
graph{graU{{graS}{graS}graS}{graS}{graS}}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "fmt"
 "testing"
)

func TestMoleFormat(t *testing.T) {
 for _, test := range []struct {
  value  Mole
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 mol"},
  {1.23456789, "%.1v", "1 mol"},
  {1.23456789, "%20.1v", "               1 mol"},
  {1.23456789, "%20v", "      1.23456789 mol"},
  {1.23456789, "%1v", "1.23456789 mol"},
  {1.23456789, "%#v", "unit.Mole(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Mole=1.23456789 mol)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
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// license that can be found in the LICENSE file.

package testblas

import (
 "testing"
```

```
 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/floats"
)

type Dtpsver interface {
 Dtpsv(ul blas.Uplo, tA blas.Transpose, d blas.Diag, n int, ap []float64, x []float64, incX int)
}

func DtpsvTest(t *testing.T, blasser Dtpsver) {
 for i, test := range []struct {
  n   int
  a   [][]float64
  ul  blas.Uplo
  tA  blas.Transpose
  d   blas.Diag
  x   []float64
  ans []float64
 }{
  {
   n: 3,
   a: [][]float64{
    {1, 2, 3},
    {0, 8, 15},
    {0, 0, 8},
   },
   ul:  blas.Upper,
   tA:  blas.NoTrans,
   d:   blas.NonUnit,
   x:   []float64{5, 6, 7},
   ans: []float64{4.15625, -0.890625, 0.875},
  },
  {
   n: 3,
   a: [][]float64{
    {1, 2, 3},
    {0, 1, 15},
    {0, 0, 1},
   },
   ul:  blas.Upper,
   tA:  blas.NoTrans,
   d:   blas.Unit,
   x:   []float64{5, 6, 7},
   ans: []float64{182,
 -99, 7},
  },
  {
   n: 3,
```

```
 a: []([]float64{
  {1, 0, 0},
  {2, 8, 0},
  {3, 15, 8},
 },
 ul:  blas.Lower,
 tA:  blas.NoTrans,
 d:   blas.NonUnit,
 x:   []float64{5, 6, 7},
 ans: []float64{5, -0.5, -0.0625},
},
{
 n: 3,
 a: []([]float64{
  {1, 0, 0},
  {2, 8, 0},
  {3, 15, 8},
 },
 ul:  blas.Lower,
 tA:  blas.NoTrans,
 d:   blas.Unit,
 x:   []float64{5, 6, 7},
 ans: []float64{5, -4, 52},
},
{
 n: 3,
 a: []([]float64{
  {1, 2, 3},
  {0, 8, 15},
  {0, 0, 8},
 },
 ul:  blas.Upper,
 tA:  blas.Trans,
 d:   blas.NonUnit,
 x:   []float64{5, 6, 7},
 ans: []float64{5, -0.5, -0.0625},
},
{
 n: 3,
 a: []([]float64{
  {1, 2, 3},
  {0, 8, 15},
  {0, 0, 8},
 },
 ul:  blas.Upper,
 tA:  blas.Trans,
 d:   blas.Unit,
 x:   []float64{5, 6, 7},
```

```
  ans: []float64{5, -4, 52},
 },
 {
  n: 3,
  a: [][]float64{
   {1, 0, 0},
   {2, 8, 0},
   {3, 15, 8},
  },
  ul:  blas.Lower,
  tA:  blas.Trans,
  d:
blas.NonUnit,
  x:   []float64{5, 6, 7},
  ans: []float64{4.15625, -0.890625, 0.875},
 },
 {
  n: 3,
  a: [][]float64{
   {1, 0, 0},
   {2, 1, 0},
   {3, 15, 1},
  },
  ul:  blas.Lower,
  tA:  blas.Trans,
  d:   blas.Unit,
  x:   []float64{5, 6, 7},
  ans: []float64{182, -99, 7},
 },
} {
 incTest := func(incX, extra int) {
  aFlat := flattenTriangular(test.a, test.ul)
  x := makeIncremented(test.x, incX, extra)
  blasser.Dtpsv(test.ul, test.tA, test.d, test.n, aFlat, x, incX)
  ans := makeIncremented(test.ans, incX, extra)
  if !floats.EqualApprox(x, ans, 1e-14) {
   t.Errorf("Case %v, incX = %v: Want %v, got %v.", i, incX, ans, x)
  }
 }
 incTest(1, 0)
 incTest(-2, 0)
 incTest(3, 0)
 incTest(-3, 8)
 incTest(4, 2)
}
}
graph{NO}
```

graph{{STRE{STRE}}STRE{{{STRE{STRE}}STRE{STRE}}}}
graph{{{dig{dig}}}}
graph{SUBh{SUBo}{SUBo}}
graph{<NNNNNN>}
graph{{gr{{gr}gr{gr}}gr{{gr}gr{gr}}gr}}
graph{{{{SUB{{{SUB}}SUB}}}{{{{SUB}}SUB}}{SUB{{{SUB}}SUB}}{}{SUB{{SUB}}SUB}}{SUB{{}SUB}}{SUB{{{}}{SUB{{{}}}}SUB{{{SUB}}}}}{{{{{}}}}{{{{}}}}{}{{{}}}}{{{}}}{{{{}}}{}}}{{{{{}}}}}{}}}
graph{Strir{Strit}}
graph{subGraA{{subGraA{subGraB}{subGraA{subGraB}}GraB}GraB}}
graph{{""""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}"}}
graph{{stricc}{stricm}}
graph{digY{{{{digD{digD}}}digD{digD}}}digY}
graph{{EDG{{EDG}EDG}{EDG}}}
graph{DiG{DiG}}
The Go gopher was designed by Renee French and is licensed under the Creative Commons Attributions 3.0.
graph{<<=====>>}
graph{{Edd{{Edd}Edd}}Edd}
Graph{{{subgrax{subgrax}}subgrax}}

```
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// license that can be found in the LICENSE file.

package gonum

import "math"

// Dlasq3 checks for deflation, computes a shift (tau) and calls dqds.
// In case of failure it changes shifts, and tries again until output
// is positive.
//
// Dlasq3 is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dlasq3(i0, n0 int, z []float64, pp int, dmin, sigma, desig, qmax float64, nFail, iter, nDiv
int, ttype int, dmin1, dmin2, dn, dn1, dn2, g, tau float64) (
 i0Out, n0Out, ppOut int, dminOut, sigmaOut, desigOut, qmaxOut float64, nFailOut, iterOut, nDivOut, ttypeOut int,
dmin1Out, dmin2Out, dnOut, dn1Out, dn2Out, gOut, tauOut float64) {
 switch {
 case i0 < 0:
  panic(i0LT0)
 case n0 < 0:
  panic(n0LT0)
 case len(z) < 4*n0:
```

```
 panic(shortZ)
case pp != 0 && pp != 1 && pp != 2:
 panic(badPp)
}

const cbias = 1.5

n0in := n0
eps := dlamchP
tol :=
eps * 100
tol2 := tol * tol
var nn int
var t float64
for {
 if n0 < i0 {
  return i0, n0, pp, dmin, sigma, desig, qmax, nFail, iter, nDiv, ttype, dmin1, dmin2, dn, dn1, dn2, g, tau
 }
 if n0 == i0 {
  z[4*(n0+1)-4] = z[4*(n0+1)+pp-4] + sigma
  n0--
  continue
 }
 nn = 4*(n0+1) + pp - 1
 if n0 != i0+1 {
  // Check whether e[n0-1] is negligible, 1 eigenvalue.
  if z[nn-5] > tol2*(sigma+z[nn-3]) && z[nn-2*pp-4] > tol2*z[nn-7] {
   // Check whether e[n0-2] is negligible, 2 eigenvalues.
   if z[nn-9] > tol2*sigma && z[nn-2*pp-8] > tol2*z[nn-11] {
    break
   }
  } else {
   z[4*(n0+1)-4] = z[4*(n0+1)+pp-4] + sigma
   n0--
   continue
  }
 }
 if z[nn-3] > z[nn-7] {
  z[nn-3], z[nn-7] = z[nn-7], z[nn-3]
 }
 t = 0.5 * (z[nn-7] - z[nn-3] + z[nn-5])
 if z[nn-5] > z[nn-3]*tol2 && t != 0 {
  s := z[nn-3] * (z[nn-5] / t)
  if s <= t {
   s = z[nn-3] * (z[nn-5] / (t * (1 + math.Sqrt(1+s/t))))
  } else {
   s = z[nn-3] * (z[nn-5] / (t + math.Sqrt(t)*math.Sqrt(t+s)))
  }
```

```
  t
= z[nn-7] + (s + z[nn-5])
  z[nn-3] *= z[nn-7] / t
  z[nn-7] = t
 }
 z[4*(n0+1)-8] = z[nn-7] + sigma
 z[4*(n0+1)-4] = z[nn-3] + sigma
 n0 -= 2
}
if pp == 2 {
 pp = 0
}

// Reverse the qd-array, if warranted.
if dmin <= 0 || n0 < n0in {
 if cbias*z[4*(i0+1)+pp-4] < z[4*(n0+1)+pp-4] {
  ipn4Out := 4 * (i0 + n0 + 2)
  for j4loop := 4 * (i0 + 1); j4loop <= 2*((i0+1)+(n0+1)-1); j4loop += 4 {
   ipn4 := ipn4Out - 1
   j4 := j4loop - 1

   z[j4-3], z[ipn4-j4-4] = z[ipn4-j4-4], z[j4-3]
   z[j4-2], z[ipn4-j4-3] = z[ipn4-j4-3], z[j4-2]
   z[j4-1], z[ipn4-j4-6] = z[ipn4-j4-6], z[j4-1]
   z[j4], z[ipn4-j4-5] = z[ipn4-j4-5], z[j4]
  }
  if n0-i0 <= 4 {
   z[4*(n0+1)+pp-2] = z[4*(i0+1)+pp-2]
   z[4*(n0+1)-pp-1] = z[4*(i0+1)-pp-1]
  }
  dmin2 = math.Min(dmin2, z[4*(i0+1)-pp-2])
  z[4*(n0+1)+pp-2] = math.Min(math.Min(z[4*(n0+1)+pp-2], z[4*(i0+1)+pp-2]), z[4*(i0+1)+pp+2])
  z[4*(n0+1)-pp-1] = math.Min(math.Min(z[4*(n0+1)-pp-1], z[4*(i0+1)-pp-1]), z[4*(i0+1)-pp+3])
  qmax
= math.Max(math.Max(qmax, z[4*(i0+1)+pp-4]), z[4*(i0+1)+pp])
  dmin = math.Copysign(0, -1) // Fortran code has -zero, but -0 in go is 0
 }
}

// Choose a shift.
tau, ttype, g = impl.Dlasq4(i0, n0, z, pp, n0in, dmin, dmin1, dmin2, dn, dn1, dn2, tau, ttype, g)

// Call dqds until dmin > 0.
loop:
for {
 i0, n0, pp, tau, sigma, dmin, dmin1, dmin2, dn, dn1, dn2 = impl.Dlasq5(i0, n0, z, pp, tau, sigma)

 nDiv += n0 - i0 + 2
```

```
 iter++
 switch {
 case dmin >= 0 && dmin1 >= 0:
  // Success.
  goto done

 case dmin < 0 && dmin1 > 0 && z[4*n0-pp-1] < tol*(sigma+dn1) && math.Abs(dn) < tol*sigma:
  // Convergence hidden by negative dn.
  z[4*n0-pp+1] = 0
  dmin = 0
  goto done

 case dmin < 0:
  // Tau too big. Select new Tau and try again.
  nFail++
  if ttype < -22 {
   // Failed twice. Play it safe.
   tau = 0
  } else if dmin1 > 0 {
   // Late failure. Gives excellent shift.
   tau = (tau + dmin) * (1 - 2*eps)
   ttype -= 11
  } else {
   // Early failure.
Divide by 4.
   tau = tau / 4
   ttype -= 12
  }

 case math.IsNaN(dmin):
  if tau == 0 {
   break loop
  }
  tau = 0

 default:
  // Possible underflow. Play it safe.
  break loop
 }
}

// Risk of underflow.
dmin, dmin1, dmin2, dn, dn1, dn2 = impl.Dlasq6(i0, n0, z, pp)
nDiv += n0 - i0 + 2
iter++
tau = 0

done:
```

```
 if tau < sigma {
  desig += tau
  t = sigma + desig
  desig -= t - sigma
 } else {
  t = sigma + tau
  desig += sigma - (t - tau)
 }
 sigma = t
 return i0, n0, pp, dmin, sigma, desig, qmax, nFail, iter, nDiv, ttype, dmin1, dmin2, dn, dn1, dn2, g, tau
}
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// license that can be found in the LICENSE file.

package graphql
graph{{{Edga}Edga}Edga}
graph ER{node[]stu node[e=e]{node[l=""]ne ne ne}grae nu node[e=d,sty=d,r=y]""""""""ne--e--e--""[l=""n=1.00]""--
e[l=""n=1.00]e--ne--""[l=""n=1.00]""--stu[l=""n=1.00]stu--grae stu--ne stu--nu stu--""[l=""n=1.00]""--
e[l=""n=1.00]l""}
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// license that can be found in the LICENSE file.

package gonum

import (
 "sort"

 "gonum.org/v1/gonum/lapack"
)

// Dlasrt sorts the numbers in the input slice d. If s == lapack.SortIncreasing,
// the elements are sorted in increasing order. If s == lapack.SortDecreasing,
// the elements are sorted in decreasing order. For other values of s Dlasrt
// will panic.
//
// Dlasrt is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dlasrt(s lapack.Sort, n int, d []float64) {
 switch {
 case n < 0:
  panic(nLT0)
 case len(d) < n:
  panic(shortD)
 }

 d = d[:n]
 switch s {
```

```
 default:
  panic(badSort)
 case lapack.SortIncreasing:
  sort.Float64s(d)
 case lapack.SortDecreasing:
  sort.Sort(sort.Reverse(sort.Float64Slice(d)))
 }
}
// SPDX-License-Identifier: Unlicense OR MIT

package text

import (
 "gioui.org/op"
 "golang.org/x/image/math/fixed"
)

type layoutCache struct {
 m          map[layoutKey]*layoutElem
 head, tail *layoutElem
}

type pathCache struct {
 m          map[pathKey]*path
 head, tail *path
}

type layoutElem struct {
 next, prev *layoutElem
 key        layoutKey
 layout     *Layout
}

type path struct {
 next, prev *path
 key        pathKey
 val        op.CallOp
}

type layoutKey struct {
 ppem fixed.Int26_6
 str  string
 opts LayoutOptions
}

type pathKey struct {
 ppem fixed.Int26_6
 str  string
```

```
}

const maxSize = 1000

func (l *layoutCache) Get(k layoutKey) (*Layout, bool) {
 if lt, ok := l.m[k]; ok {
  l.remove(lt)
  l.insert(lt)
  return lt.layout, true
 }
 return nil, false
}

func (l *layoutCache) Put(k layoutKey, lt *Layout) {
 if l.m == nil {
  l.m = make(map[layoutKey]*layoutElem)
  l.head = new(layoutElem)
  l.tail = new(layoutElem)
  l.head.prev = l.tail
  l.tail.next = l.head
 }
 val
 := &layoutElem{key: k, layout: lt}
 l.m[k] = val
 l.insert(val)
 if len(l.m) > maxSize {
  oldest := l.tail.next
  l.remove(oldest)
  delete(l.m, oldest.key)
 }
}

func (l *layoutCache) remove(lt *layoutElem) {
 lt.next.prev = lt.prev
 lt.prev.next = lt.next
}

func (l *layoutCache) insert(lt *layoutElem) {
 lt.next = l.head
 lt.prev = l.head.prev
 lt.prev.next = lt
 lt.next.prev = lt
}

func (c *pathCache) Get(k pathKey) (op.CallOp, bool) {
 if v, ok := c.m[k]; ok {
  c.remove(v)
  c.insert(v)
```

```
  return v.val, true
 }
 return op.CallOp{}, false
}

func (c *pathCache) Put(k pathKey, v op.CallOp) {
 if c.m == nil {
  c.m = make(map[pathKey]*path)
  c.head = new(path)
  c.tail = new(path)
  c.head.prev = c.tail
  c.tail.next = c.head
 }
 val := &path{key: k, val: v}
 c.m[k] = val
 c.insert(val)
 if len(c.m) > maxSize {
  oldest := c.tail.next
  c.remove(oldest)
  delete(c.m, oldest.key)
 }
}

func (c *pathCache) remove(v *path) {
 v.next.prev = v.prev
 v.prev.next = v.next
}

func (c
 *pathCache) insert(v *path) {
 v.next = c.head
 v.prev = c.head.prev
 v.prev.next = v
 v.next.prev = v
}
      SUBROUTINE ZACAI(ZR, ZI, FNU, KODE, MR, N, YR, YI, NZ, RL, TOL,
     * ELIM, ALIM)
C***BEGIN PROLOGUE  ZACAI
C***REFER TO  ZAIRY
C
C     ZACAI APPLIES THE ANALYTIC CONTINUATION FORMULA
C
C         K(FNU,ZN*EXP(MP))=K(FNU,ZN)*EXP(-MP*FNU) - MP*I(FNU,ZN)
C                MP=PI*MR*CMPLX(0.0,1.0)
C
C     TO CONTINUE THE K FUNCTION FROM THE RIGHT HALF TO THE LEFT
C     HALF Z PLANE FOR USE WITH ZAIRY WHERE FNU=1/3 OR 2/3 AND N=1.
C     ZACAI IS THE SAME AS ZACON WITH THE PARTS FOR LARGER ORDERS AND
```

```
C     RECURRENCE REMOVED. A RECURSIVE CALL TO ZACON CAN RESULT IF ZACON
C     IS CALLED FROM ZAIRY.
C
C***ROUTINES CALLED  ZASYI,ZBKNU,ZMLRI,ZSERI,ZS1S2,D1MACH,ZABS
C***END PROLOGUE  ZACAI
C     COMPLEX CSGN,CSPN,C1,C2,Y,Z,ZN,CY
      DOUBLE PRECISION ALIM, ARG, ASCLE, AZ, CSGNR, CSGNI, CSPNR,
     * CSPNI, C1R, C1I, C2R, C2I, CYR, CYI, DFNU, ELIM, FMR, FNU, PI,
     * RL, SGN, TOL, YY, YR, YI, ZR, ZI, ZNR, ZNI, D1MACH, ZABS
      INTEGER INU, IUF, KODE, MR, N, NN, NW, NZ
      DIMENSION YR(N),
 YI(N), CYR(2), CYI(2)
      DATA PI / 3.14159265358979324D0 /
      NZ = 0
      ZNR = -ZR
      ZNI = -ZI
      AZ = ZABS(CMPLX(ZR,ZI,kind=KIND(1.0D0)))
      NN = N
      DFNU = FNU + DBLE(FLOAT(N-1))
      IF (AZ.LE.2.0D0) GO TO 10
      IF (AZ*AZ*0.25D0.GT.DFNU+1.0D0) GO TO 20
   10 CONTINUE
C-----------------------------------------------------------------------
C     POWER SERIES FOR THE I FUNCTION
C-----------------------------------------------------------------------
      CALL ZSERI(ZNR, ZNI, FNU, KODE, NN, YR, YI, NW, TOL, ELIM, ALIM)
      GO TO 40
   20 CONTINUE
      IF (AZ.LT.RL) GO TO 30
C-----------------------------------------------------------------------
C     ASYMPTOTIC EXPANSION FOR LARGE Z FOR THE I FUNCTION
C-----------------------------------------------------------------------
      CALL ZASYI(ZNR, ZNI, FNU, KODE, NN, YR, YI, NW, RL, TOL, ELIM,
     * ALIM)
      IF (NW.LT.0) GO TO 80
      GO TO 40
   30 CONTINUE
C-----------------------------------------------------------------------
C
      MILLER ALGORITHM NORMALIZED BY THE SERIES FOR THE I FUNCTION
C-----------------------------------------------------------------------
      CALL ZMLRI(ZNR, ZNI, FNU, KODE, NN, YR, YI, NW, TOL)
      IF(NW.LT.0) GO TO 80
   40 CONTINUE
C-----------------------------------------------------------------------
C     ANALYTIC CONTINUATION TO THE LEFT HALF PLANE FOR THE K FUNCTION
C-----------------------------------------------------------------------
      CALL ZBKNU(ZNR, ZNI, FNU, KODE, 1, CYR, CYI, NW, TOL, ELIM, ALIM)
```

```
      IF (NW.NE.0) GO TO 80
      FMR = DBLE(FLOAT(MR))
      SGN = -DSIGN(PI,FMR)
      CSGNR = 0.0D0
      CSGNI = SGN
      IF (KODE.EQ.1) GO TO 50
      YY = -ZNI
      CSGNR = -CSGNI*DSIN(YY)
      CSGNI = CSGNI*DCOS(YY)
   50 CONTINUE
C-----------------------------------------------------------------------
C     CALCULATE CSPN=EXP(FNU*PI*I) TO MINIMIZE LOSSES OF SIGNIFICANCE
C     WHEN FNU IS LARGE
C-----------------------------------------------------------------------
       INU = INT(SNGL(FNU))
      ARG = (FNU-DBLE(FLOAT(INU)))*SGN
      CSPNR = DCOS(ARG)
      CSPNI = DSIN(ARG)
      IF (MOD(INU,2).EQ.0) GO TO 60
      CSPNR = -CSPNR
      CSPNI = -CSPNI
   60 CONTINUE
      C1R = CYR(1)
      C1I = CYI(1)
      C2R = YR(1)
      C2I = YI(1)
      IF (KODE.EQ.1) GO TO 70
      IUF = 0
      ASCLE = 1.0D+3*D1MACH(1)/TOL
      CALL ZS1S2(ZNR, ZNI, C1R, C1I, C2R, C2I, NW, ASCLE, ALIM, IUF)
      NZ = NZ + NW
   70 CONTINUE
      YR(1) = CSPNR*C1R - CSPNI*C1I + CSGNR*C2R - CSGNI*C2I
      YI(1) = CSPNR*C1I + CSPNI*C1R + CSGNR*C2I + CSGNI*C2R
      RETURN
   80 CONTINUE
      NZ = -1
      IF(NW.EQ.(-2)) NZ=-2
      RETURN
      END
graph{{{{{{{subGn}subGc}}}}}}
graph{{DiGra{DiGra}DiGra}}
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// Package util provides generated internal utility functions for DOT parsing.
package util // import "gonum.org/v1/gonum/graph/formats/dot/internal/util"
```

```
Graph{{gr4}gr7{{{{gr4}gr4}gr7}}}
graph{e[l=<<D>b<D>|<">a<D>b<D>|<D>c>]}
graph{"\\\
```

```
func printFortranArray(z []float64, name string) {
 fmt.Printf("%s(1:%d) = (/%v, &\n", name, len(z), fortran64(z[0]))
 for i := 1; i < len(z)-1; i++ {
  fmt.Printf("%v, &\n", fortran64(z[i]))
 }
 fmt.Printf("%s/)\n", fortran64(z[len(z)-1]))
}
// Code generated by "go generate gonum.org/v1/gonum/unit/constant; DO NOT EDIT.

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package constant

import (
 "fmt"

 "gonum.org/v1/gonum/unit"
)

// Gravitational is the universal gravitational constant (G), the proportionality constant connecting the gravitational
force between two bodies.
// The dimensions of Gravitational are m^3 kg^-1 s^-2. The standard uncertainty of the constant is 1.5e-15 m^3 kg^-
1 s^-2.
const Gravitational = gravitationalUnits(6.6743e-11)

type gravitationalUnits float64

// Unit converts the gravitationalUnits to a *unit.Unit
func (cnst gravitationalUnits) Unit() *unit.Unit {
 return unit.New(float64(cnst), unit.Dimensions{
  unit.MassDim:   -1,
  unit.LengthDim: 3,
  unit.TimeDim:   -2,
 })
}

func (cnst gravitationalUnits) Format(fs fmt.State, c rune) {
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs,
 "%T(%v)", cnst, float64(cnst))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
```

```
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), w, p, cnst.Unit())
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, cnst.Unit())
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), w, cnst.Unit())
  default:
   fmt.Fprintf(fs, "%"+string(c), cnst.Unit())
  }
 default:
  fmt.Fprintf(fs, "%%!"+string(c)+"(constant.gravitationalUnits=%v m^3 kg^-1 s^-2)", float64(cnst))
 }
}
graph{{digu}{digu}}
graph{.5[h=.1t=.1t=.1t=.5]}
graph{diGrapS{{{{diGrapC}diGrapS}}{{{{diGrapC}diGrapS}}diGrapS}}}
graph{{GRA}GRA}
graph{{_}_}
graph{subGrap{{{subGrap}}}}
graph{{ed}}
graph{{SUq}SUh{{SUq}SUf}SUh{{SUq}SUf{}SUq}SUq}
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package gonum

import "gonum.org/v1/gonum/blas/blas64"

// Dlaswp swaps the rows k1 to k2 of a rectangular matrix A according to the
// indices in ipiv so that row k is swapped with ipiv[k].
//
// n is the number of columns of A and incX is the increment for ipiv. If incX
// is 1, the swaps are applied from k1 to k2. If incX is -1, the swaps are
// applied in reverse order from k2 to k1. For other values of incX Dlaswp will
// panic. ipiv must have length k2+1, otherwise Dlaswp will panic.
//
// The indices k1, k2, and the elements of ipiv are zero-based.
//
// Dlaswp is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dlaswp(n int, a []float64, lda int, k1, k2 int, ipiv []int, incX int) {
 switch {
 case n < 0:
  panic(nLT0)
 case k2 < 0:
```

```
 panic(badK2)
 case k1 < 0 || k2 < k1:
  panic(badK1)
 case
 lda < max(1, n):
  panic(badLdA)
 case len(a) < (k2-1)*lda+n:
  panic(shortA)
 case len(ipiv) != k2+1:
  panic(badLenIpiv)
 case incX != 1 && incX != -1:
  panic(absIncNotOne)
 }

 if n == 0 {
  return
 }

 bi := blas64.Implementation()
 if incX == 1 {
  for k := k1; k <= k2; k++ {
   bi.Dswap(n, a[k*lda:], 1, a[ipiv[k]*lda:], 1)
  }
  return
 }
 for k := k2; k >= k1; k-- {
  bi.Dswap(n, a[k*lda:], 1, a[ipiv[k]*lda:], 1)
 }
}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "errors"
 "fmt"
 "math"
 "unicode/utf8"
)

// Force represents a force in Newtons.
type Force float64

const Newton Force = 1
```

```
// Unit converts the Force to a *Unit
func (f Force) Unit() *Unit {
 return New(float64(f), Dimensions{
  LengthDim: 1,
  MassDim:   1,
  TimeDim:   -2,
 })
}

// Force allows Force to implement a Forcer interface
func (f Force) Force() Force {
 return f
}

// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (f *Force) From(u Uniter) error {
 if !DimensionsMatch(u, Newton) {
  *f = Force(math.NaN())
  return errors.New("Dimension mismatch")
 }
 *f = Force(u.Unit().Value())
 return nil
}

func (f Force) Format(fs fmt.State, c rune) {
 switch c {
 case
 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", f, float64(f))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " N"
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(f))
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(f))
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(f))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(f))
```

```
  }
  fmt.Fprint(fs, unit)
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g N)", c, f, float64(f))
 }
}
graph{{{DiGrC}DiGrG}{DiGrC}}
graph{{sub_}{sub_}{sub_{sub_}{sub_}{sub_}}}
Graph{subgra4{subgra4}}
graph{"\"k\\}\"k\\t"}
graph{{STV}STV{STV}STV}
graph{{n_{n_{n_}n_}{n_}{n_}{n_}n_}{n_}}
graph{{{{EDGv{EDGv{{EDGy}}}}}}}
digraph {
 A [name="hello \
world"]
}
graph{NOA}
digraph{5:n ->6:n ->3[l=""][l=""][l=""][l=""][l=""]0->1:n 0->2:n 0->3:n 0->4:n 0->5:n ->6:n ->7:n}
graph{{EDG{EDG}EDG{EDG}{EDG}EDG{EDG}{EDG{EDG}}}}
graph{Edgh}
graph{{{{StriG}{StriG}{StriG}{StriG}}}StriC}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "errors"
 "fmt"
 "math"
 "unicode/utf8"
)

// Temperature represents a temperature in Kelvin.
type Temperature float64

const Kelvin Temperature = 1

// Unit converts the Temperature to a *Unit
func (t Temperature) Unit() *Unit {
 return New(float64(t), Dimensions{
  TemperatureDim: 1,
 })
}
```

```
// Temperature allows Temperature to implement a Temperaturer interface
func (t Temperature) Temperature() Temperature {
 return t
}

// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (t *Temperature) From(u Uniter) error {
 if !DimensionsMatch(u, Kelvin) {
  *t = Temperature(math.NaN())
  return errors.New("Dimension mismatch")
 }
 *t = Temperature(u.Unit().Value())
 return nil
}

func
 (t Temperature) Format(fs fmt.State, c rune) {
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", t, float64(t))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " K"
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(t))
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(t))
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(t))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(t))
  }
  fmt.Fprint(fs, unit)
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g K)", c, t, float64(t))
 }
}
graph{{DIGRA}{DIGRA}{DIGRA}{DIGRA}{DIGRA}{DIGRA}}
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```

```
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package testblas

import (
 "testing"

 "golang.org/x/exp/rand"
)

type Izamaxer interface {
 Izamax(n int, x []complex128, incX int) int
}

func IzamaxTest(t *testing.T, impl Izamaxer) {
 rnd := rand.New(rand.NewSource(1))
 for _, n := range []int{0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 50, 100} {
  for _, incX := range []int{-5, 1, 2, 10} {
   aincX := abs(incX)
   var x []complex128
   if n > 0 {
    x = make([]complex128, (n-1)*aincX+1)
   }
   for i := range x {
    x[i] = znan
   }
   for i := 0; i < n; i++ {
    re := 2*rnd.Float64() - 1
    im := 2*rnd.Float64() - 1
    x[i*aincX] = complex(re, im)
   }

   want := -1
   if incX > 0 && n > 0 {
    want = rnd.Intn(n)
    x[want*incX] = 10 + 10i
   }
   got := impl.Izamax(n, x, incX)

   if got != want {
    t.Errorf("Case n=%v,incX=%v: unexpected result. want %v, got
 %v", n, incX, want, got)
   }
  }
 }
}
graph{{DigrapC{}DigrapD}DigrapC}
```

```
graph{{DIi}}
graph{{{SubGrapp{{SubGrapu}}}}}
graph{Edge[]{{Edge[]{{Edge[]{Edge[]}Edge[]}{Edge[]{Edge[]}Edge[]}Edge[]}}}}
graph{subg}
// SPDX-License-Identifier: Unlicense OR MIT

package paint

import (
 "encoding/binary"
 "image"
 "image/color"
 "image/draw"
 "math"

 "gioui.org/f32"
 "gioui.org/internal/opconst"
 "gioui.org/op"
)

// ImageOp sets the material to an image.
type ImageOp struct {
 uniform bool
 color   color.RGBA
 src     *image.RGBA

 // handle is a key to uniquely identify this ImageOp
 // in a map of cached textures.
 handle interface{}
}

// ColorOp sets the material to a constant color.
type ColorOp struct {
 Color color.RGBA
}

// PaintOp draws the current material, respecting the
// clip path and transformation.
type PaintOp struct {
 Rect f32.Rectangle
}

func NewImageOp(src image.Image) ImageOp {
 switch src := src.(type) {
 case *image.Uniform:
  col := color.RGBAModel.Convert(src.C).(color.RGBA)
  return ImageOp{
   uniform: true,
```

```
  color:   col,
  }
 case *image.RGBA:
  bounds := src.Bounds()
  if bounds.Min == (image.Point{}) && src.Stride == bounds.Dx()*4 {
   return ImageOp{
    src:
   src,
    handle: new(int),
   }
  }
 }

 sz := src.Bounds().Size()
 // Copy the image into a GPU friendly format.
 dst := image.NewRGBA(image.Rectangle{
  Max: sz,
 })
 draw.Draw(dst, src.Bounds(), src, image.Point{}, draw.Src)
 return ImageOp{
  src:    dst,
  handle: new(int),
 }
}

func (i ImageOp) Size() image.Point {
 if i.src == nil {
  return image.Point{}
 }
 return i.src.Bounds().Size()
}

func (i ImageOp) Add(o *op.Ops) {
 if i.uniform {
  ColorOp{
   Color: i.color,
  }.Add(o)
  return
 }
 data := o.Write(opconst.TypeImageLen, i.src, i.handle)
 data[0] = byte(opconst.TypeImage)
}

func (c ColorOp) Add(o *op.Ops) {
 data := o.Write(opconst.TypeColorLen)
 data[0] = byte(opconst.TypeColor)
 data[1] = c.Color.R
 data[2] = c.Color.G
```

```
 data[3] = c.Color.B
 data[4] = c.Color.A
}

func (d PaintOp) Add(o *op.Ops) {
 data := o.Write(opconst.TypePaintLen)
 data[0] = byte(opconst.TypePaint)
 bo := binary.LittleEndian
 bo.PutUint32(data[1:], math.Float32bits(d.Rect.Min.X))
 bo.PutUint32(data[5:],
 math.Float32bits(d.Rect.Min.Y))
 bo.PutUint32(data[9:], math.Float32bits(d.Rect.Max.X))
 bo.PutUint32(data[13:], math.Float32bits(d.Rect.Max.Y))
}
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package dual

import "math"

// Sinh returns the hyperbolic sine of d.
//
// Special cases are:
// Sinh(0) = (0+N)
// Sinh(Inf) = Inf
// Sinh(NaN) = NaN
func Sinh(d Number) Number {
 if d.Real == 0 {
  return Number{
   Real: d.Real,
   Emag: d.Emag,
  }
 }
 if math.IsInf(d.Real, 0) {
  return Number{
   Real: d.Real,
   Emag: math.Inf(1),
  }
 }
 fn := math.Sinh(d.Real)
 deriv := math.Cosh(d.Real)
 return Number{
  Real: fn,
  Emag: deriv * d.Emag,
 }
}
```

```
// Cosh returns the hyperbolic cosine of d.
//
// Special cases are:
// Cosh(0) = 1
// Cosh(Inf) = +Inf
// Cosh(NaN) = NaN
func Cosh(d Number) Number {
 if math.IsInf(d.Real, 0) {
  return Number{
   Real: math.Inf(1),
   Emag: d.Real,
  }
 }
 fn := math.Cosh(d.Real)
 deriv := math.Sinh(d.Real)
 return Number{
  Real: fn,
  Emag: deriv * d.Emag,
 }
}

// Tanh returns the hyperbolic
 tangent of d.
//
// Special cases are:
// Tanh(0) = (0+N)
// Tanh(Inf) = (1+0)
// Tanh(NaN) = NaN
func Tanh(d Number) Number {
 switch d.Real {
 case 0:
  return Number{
   Real: d.Real,
   Emag: d.Emag,
  }
 case math.Inf(1):
  return Number{
   Real: 1,
   Emag: 0,
  }
 case math.Inf(-1):
  return Number{
   Real: -1,
   Emag: 0,
  }
 }
 fn := math.Tanh(d.Real)
```

```
 deriv := 1 - fn*fn
 return Number{
  Real: fn,
  Emag: deriv * d.Emag,
 }
}

// Asinh returns the inverse hyperbolic sine of d.
//
// Special cases are:
// Asinh(0) = (0+N)
// Asinh(Inf) = Inf
// Asinh(NaN) = NaN
func Asinh(d Number) Number {
 if d.Real == 0 {
  return Number{
   Real: d.Real,
   Emag: d.Emag,
  }
 }
 fn := math.Asinh(d.Real)
 deriv := 1 / math.Sqrt(d.Real*d.Real+1)
 return Number{
  Real: fn,
  Emag: deriv * d.Emag,
 }
}

// Acosh returns the inverse hyperbolic cosine of d.
//
// Special cases are:
// Acosh(+Inf) = +Inf
// Acosh(1) = (0+Inf)
// Acosh(x) = NaN if x < 1
// Acosh(NaN) = NaN
func Acosh(d
 Number) Number {
 if d.Real <= 1 {
  if d.Real == 1 {
   return Number{
    Real: 0,
    Emag: math.Inf(1),
   }
  }
  return Number{
   Real: math.NaN(),
   Emag: math.NaN(),
  }
```

```
 }
 fn := math.Acosh(d.Real)
 deriv := 1 / math.Sqrt(d.Real*d.Real-1)
 return Number{
  Real: fn,
  Emag: deriv * d.Emag,
 }
}

// Atanh returns the inverse hyperbolic tangent of d.
//
// Special cases are:
// Atanh(1) = +Inf
// Atanh(0) = (0+N)
// Atanh(-1) = -Inf
// Atanh(x) = NaN if x < -1 or x > 1
// Atanh(NaN) = NaN
func Atanh(d Number) Number {
 if d.Real == 0 {
  return Number{
   Real: d.Real,
   Emag: d.Emag,
  }
 }
 if math.Abs(d.Real) == 1 {
  return Number{
   Real: math.Inf(int(d.Real)),
   Emag: math.NaN(),
  }
 }
 fn := math.Atanh(d.Real)
 deriv := 1 / (1 - d.Real*d.Real)
 return Number{
  Real: fn,
  Emag: deriv * d.Emag,
 }
}
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package gonum

import "gonum.org/v1/gonum/blas"

// Dgeqr2 computes a QR factorization of the mn matrix A.
//
// In a QR factorization, Q is an mm orthonormal matrix, and R is an
```

```
// upper triangular mn matrix.
//
// A is modified to contain the information to construct Q and R.
// The upper triangle of a contains the matrix R. The lower triangular elements
// (not including the diagonal) contain the elementary reflectors. tau is modified
// to contain the reflector scales. tau must have length at least min(m,n), and
// this function will panic otherwise.
//
// The ith elementary reflector can be explicitly constructed by first extracting
// the
//  v[j] = 0          j < i
//  v[j] = 1          j == i
//  v[j] = a[j*lda+i]  j > i
// and computing H_i = I - tau[i] * v * v.
//
// The orthonormal matrix Q can be constructed from
 a product of these elementary
// reflectors, Q = H_0 * H_1 * ... * H_{k-1}, where k = min(m,n).
//
// work is temporary storage of length at least n and this function will panic otherwise.
//
// Dgeqr2 is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dgeqr2(m, n int, a []float64, lda int, tau, work []float64) {
 // TODO(btracey): This is oriented such that columns of a are eliminated.
 // This likely could be re-arranged to take better advantage of row-major
 // storage.

 switch {
 case m < 0:
  panic(mLT0)
 case n < 0:
  panic(nLT0)
 case lda < max(1, n):
  panic(badLdA)
 case len(work) < n:
  panic(shortWork)
 }

 // Quick return if possible.
 k := min(m, n)
 if k == 0 {
  return
 }

 switch {
 case len(a) < (m-1)*lda+n:
  panic(shortA)
 case len(tau) < k:
```

```
 panic(shortTau)
 }

 for i := 0; i < k; i++ {
  // Generate elementary reflector H_i.
  a[i*lda+i], tau[i] = impl.Dlarfg(m-i, a[i*lda+i], a[min((i+1), m-1)*lda+i:], lda)
  if i < n-1 {
   aii
 := a[i*lda+i]
   a[i*lda+i] = 1
   impl.Dlarf(blas.Left, m-i, n-i-1,
    a[i*lda+i:], lda,
    tau[i],
    a[i*lda+i+1:], lda,
    work)
   a[i*lda+i] = aii
  }
 }
}
graph{Stt{{Stt{St}}St}}
graph{{{grap{{grap}}}grap{}grap{{grap}}}}
graph{{{Sub1}{Sub1}{Sub1}{Sub1}{Sub1}{Sub1}{Sub1}Sub5}{Sub1}{Sub1}}
graph{{DigV}{DigV}{DigV}DigP{DigV}{DigR}{DigV}{DigV}DigP}
graph{{{diGrap}{diGrap}{diGrap}diGrap}{diGrap}{diGrap}{diGrap}{diGrap}diGrap}
graph{STRICS{{STRICS{STRICI}}}}
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package path

import (
 "gonum.org/v1/gonum/graph"
 "gonum.org/v1/gonum/graph/internal/linear"
)

// BellmanFordFrom returns a shortest-path tree for a shortest path from u to all nodes in
// the graph g, or false indicating that a negative cycle exists in the graph. If the graph
// does not implement Weighted, UniformCost is used.
//
// The time complexity of BellmanFordFrom is O(|V|.|E|).
func BellmanFordFrom(u graph.Node, g graph.Graph) (path Shortest, ok bool) {
 if g.Node(u.ID()) == nil {
  return Shortest{from: u}, true
 }
 var weight Weighting
 if wg, ok := g.(Weighted); ok {
  weight = wg.Weight
```

```
} else {
 weight = UniformCost(g)
}

nodes := graph.NodesOf(g.Nodes())

path = newShortestFrom(u, nodes)
path.dist[path.indexOf[u.ID()]] = 0

// Queue to keep track which nodes need to be relaxed.
// Only nodes whose vertex
distance changed in the previous iterations need to be relaxed again.
queue := newBellmanFordQueue(path.indexOf)
queue.enqueue(u)

// The maximum of edges in a graph is |V| * (|V|-1) which is also the worst case complexity.
// If the queue-loop has more iterations than the amount of maximum edges
// it indicates that we have a negative cycle.
maxEdges := len(nodes) * (len(nodes) - 1)
var loops int

// TODO(kortschak): Consider adding further optimisations
// from http://arxiv.org/abs/1111.5414.
for queue.len() != 0 {
 u := queue.dequeue()
 uid := u.ID()
 j := path.indexOf[uid]

 for _, v := range graph.NodesOf(g.From(uid)) {
  vid := v.ID()
  k := path.indexOf[vid]
  w, ok := weight(uid, vid)
  if !ok {
   panic("bellman-ford: unexpected invalid weight")
  }

  joint := path.dist[j] + w
  if joint < path.dist[k] {
   path.set(k, joint, j)

   if !queue.has(vid) {
    queue.enqueue(v)
   }
  }
 }

 if loops > maxEdges {
  path.hasNegativeCycle = true
```

```
  return
 path, false
  }
  loops++
 }

 return path, true
}

// bellmanFordQueue is a queue for the Queue-based Bellman-Ford algorithm.
type bellmanFordQueue struct {
 // queue holds the nodes which need to be relaxed.
 queue linear.NodeQueue

 // onQueue keeps track whether a node is on the queue or not.
 onQueue []bool

 // indexOf contains a mapping holding the id of a node with its index in the onQueue array.
 indexOf map[int64]int
}

// enqueue adds a node to the bellmanFordQueue.
func (q *bellmanFordQueue) enqueue(n graph.Node) {
 i := q.indexOf[n.ID()]
 if q.onQueue[i] {
  panic("bellman-ford: already queued")
 }
 q.onQueue[i] = true
 q.queue.Enqueue(n)
}

// dequeue returns the first value of the bellmanFordQueue.
func (q *bellmanFordQueue) dequeue() graph.Node {
 n := q.queue.Dequeue()
 q.onQueue[q.indexOf[n.ID()]] = false
 return n
}

// len returns the number of nodes in the bellmanFordQueue.
func (q *bellmanFordQueue) len() int { return q.queue.Len() }

// has returns whether
 a node with the given id is in the queue.
func (q bellmanFordQueue) has(id int64) bool { return q.onQueue[q.indexOf[id]] }

// newBellmanFordQueue creates a new bellmanFordQueue.
func newBellmanFordQueue(indexOf map[int64]int) bellmanFordQueue {
 return bellmanFordQueue{
```

```
  onQueue: make([]bool, len(indexOf)),
  indexOf: indexOf,
 }
}
Graph{{subgr4}}
// SPDX-License-Identifier: Unlicense OR MIT

package app

import (
 "os"
 "strings"

 "gioui.org/app/internal/window"
)

// extraArgs contains extra arguments to append to
// os.Args. The arguments are separated with |.
// Useful for running programs on mobiles where the
// command line is not available.
// Set with the go linker flag -X.
var extraArgs string

func init() {
 if extraArgs != "" {
  args := strings.Split(extraArgs, "|")
  os.Args = append(os.Args, args...)
 }
}

// DataDir returns a path to use for application-specific
// configuration data.
// On desktop systems, DataDir use os.UserConfigDir.
// On iOS NSDocumentDirectory is queried.
// For Android Context.getFilesDir is used.
//
// BUG: DataDir blocks on Android until init functions
// have completed.
func DataDir() (string, error) {
 return dataDir()
}

// Main must be called from the a program's main function. It
// blocks until there are no more windows active.
//
// Calling Main is necessary because some operating
 systems
// require control of the main thread of the program for
```

```
// running windows.
func Main() {
 window.Main()
}
graph{{ed}ed{ed}ed{ed}}
graph{{{{Sb}}}So}
graph{{nN{nN{nN}nD}}}
graph{SubG{SubG}}
graph{{SUBGRAv}SUBGRAa}
// SPDX-License-Identifier: Unlicense OR MIT

package widget

import (
 "fmt"
 "image"
 "unicode/utf8"

 "gioui.org/f32"
 "gioui.org/layout"
 "gioui.org/op"
 "gioui.org/op/paint"
 "gioui.org/text"

 "golang.org/x/image/math/fixed"
)

// Label is a widget for laying out and drawing text.
type Label struct {
 // Alignment specify the text alignment.
 Alignment text.Alignment
 // MaxLines limits the number of lines. Zero means no limit.
 MaxLines int
}

type lineIterator struct {
 Lines     []text.Line
 Clip      image.Rectangle
 Alignment text.Alignment
 Width     int
 Offset    image.Point

 y, prevDesc fixed.Int26_6
}

const inf = 1e6

func (l *lineIterator) Next() (text.String, f32.Point, bool) {
```

```
for len(l.Lines) > 0 {
 line := l.Lines[0]
 l.Lines = l.Lines[1:]
 x := align(l.Alignment, line.Width, l.Width) + fixed.I(l.Offset.X)
 l.y += l.prevDesc + line.Ascent
 l.prevDesc = line.Descent
 // Align baseline and line start to the pixel grid.
 off := fixed.Point26_6{X: fixed.I(x.Floor()),
Y: fixed.I(l.y.Ceil())}
 l.y = off.Y
 off.Y += fixed.I(l.Offset.Y)
 if (off.Y + line.Bounds.Min.Y).Floor() > l.Clip.Max.Y {
  break
 }
 if (off.Y + line.Bounds.Max.Y).Ceil() < l.Clip.Min.Y {
  continue
 }
 str := line.Text
 for len(str.Advances) > 0 {
  adv := str.Advances[0]
  if (off.X + adv + line.Bounds.Max.X - line.Width).Ceil() >= l.Clip.Min.X {
   break
  }
  off.X += adv
  _, s := utf8.DecodeRuneInString(str.String)
  str.String = str.String[s:]
  str.Advances = str.Advances[1:]
 }
 n := 0
 endx := off.X
 for i, adv := range str.Advances {
  if (endx + line.Bounds.Min.X).Floor() > l.Clip.Max.X {
   str.String = str.String[:n]
   str.Advances = str.Advances[:i]
   break
  }
  _, s := utf8.DecodeRuneInString(str.String[n:])
  n += s
  endx += adv
 }
 offf := f32.Point{X: float32(off.X) / 64, Y: float32(off.Y) / 64}
 return str, offf, true
}
return text.String{}, f32.Point{}, false
}

func (l Label) Layout(gtx *layout.Context, s *text.Shaper,
```

```
 font text.Font, txt string) {
 cs := gtx.Constraints
 textLayout := s.Layout(gtx, font, txt, text.LayoutOptions{MaxWidth: cs.Width.Max})
 lines := textLayout.Lines
 if max := l.MaxLines; max > 0 && len(lines) > max {
  lines = lines[:max]
 }
 dims := linesDimens(lines)
 dims.Size = cs.Constrain(dims.Size)
 clip := textPadding(lines)
 clip.Max = clip.Max.Add(dims.Size)
 it := lineIterator{
  Lines:     lines,
  Clip:      clip,
  Alignment: l.Alignment,
  Width:     dims.Size.X,
 }
 for {
  str, off, ok := it.Next()
  if !ok {
   break
  }
  lclip := toRectF(clip).Sub(off)
  var stack op.StackOp
  stack.Push(gtx.Ops)
  op.TransformOp{}.Offset(off).Add(gtx.Ops)
  s.Shape(gtx, font, str).Add(gtx.Ops)
  paint.PaintOp{Rect: lclip}.Add(gtx.Ops)
  stack.Pop()
 }
 gtx.Dimensions = dims
}

func toRectF(r image.Rectangle) f32.Rectangle {
 return f32.Rectangle{
  Min: f32.Point{X: float32(r.Min.X), Y: float32(r.Min.Y)},
  Max: f32.Point{X: float32(r.Max.X), Y: float32(r.Max.Y)},
 }
}

func textPadding(lines
 []text.Line) (padding image.Rectangle) {
 if len(lines) == 0 {
  return
 }
 first := lines[0]
 if d := first.Ascent + first.Bounds.Min.Y; d < 0 {
  padding.Min.Y = d.Ceil()
```

```
 }
 last := lines[len(lines)-1]
 if d := last.Bounds.Max.Y - last.Descent; d > 0 {
  padding.Max.Y = d.Ceil()
 }
 if d := first.Bounds.Min.X; d < 0 {
  padding.Min.X = d.Ceil()
 }
 if d := first.Bounds.Max.X - first.Width; d > 0 {
  padding.Max.X = d.Ceil()
 }
 return
}

func linesDimens(lines []text.Line) layout.Dimensions {
 var width fixed.Int26_6
 var h int
 var baseline int
 if len(lines) > 0 {
  baseline = lines[0].Ascent.Ceil()
  var prevDesc fixed.Int26_6
  for _, l := range lines {
   h += (prevDesc + l.Ascent).Ceil()
   prevDesc = l.Descent
   if l.Width > width {
    width = l.Width
   }
  }
  h += lines[len(lines)-1].Descent.Ceil()
 }
 w := width.Ceil()
 return layout.Dimensions{
  Size: image.Point{
   X: w,
   Y: h,
  },
  Baseline: h - baseline,
 }
}

func align(align text.Alignment,
 width fixed.Int26_6, maxWidth int) fixed.Int26_6 {
 mw := fixed.I(maxWidth)
 switch align {
 case text.Middle:
  return fixed.I(((mw - width) / 2).Floor())
 case text.End:
  return fixed.I((mw - width).Floor())
```

```
 case text.Start:
  return 0
 default:
  panic(fmt.Errorf("unknown alignment %v", align))
 }
}
graph{/*******************/}
digraph {
 A -> B; C
}
graph{{sub1{}sub8{sub1{}sub8}}}
graph{{{{{{DiD{DiD{DiD}}}}DiD{DiD}}}}}
graph{NODG{NODG}}
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// license that can be found in the LICENSE file.

package gonum

import (
 "testing"

 "gonum.org/v1/gonum/blas/testblas"
)

func TestDgemv(t *testing.T) {
 testblas.DgemvTest(t, impl)
}

func TestDger(t *testing.T) {
 testblas.DgerTest(t, impl)
}

func TestDtxmv(t *testing.T) {
 testblas.DtxmvTest(t, impl)
}

func TestDgbmv(t *testing.T) {
 testblas.DgbmvTest(t, impl)
}

func TestDtbsv(t *testing.T) {
 testblas.DtbsvTest(t, impl)
}

func TestDsbmv(t *testing.T) {
 testblas.DsbmvTest(t, impl)
}
```

```
func TestDtbmv(t *testing.T) {
 testblas.DtbmvTest(t, impl)
}

func TestDtrsv(t *testing.T) {
 testblas.DtrsvTest(t, impl)
}

func TestDtrmv(t *testing.T) {
 testblas.DtrmvTest(t, impl)
}

func TestDsymv(t *testing.T) {
 testblas.DsymvTest(t, impl)
}

func TestDsyr(t *testing.T) {
 testblas.DsyrTest(t, impl)
}

func TestDsyr2(t *testing.T) {
 testblas.Dsyr2Test(t, impl)
}

func TestDspr2(t
 *testing.T) {
 testblas.Dspr2Test(t, impl)
}

func TestDspr(t *testing.T) {
 testblas.DsprTest(t, impl)
}

func TestDspmv(t *testing.T) {
 testblas.DspmvTest(t, impl)
}

func TestDtpsv(t *testing.T) {
 testblas.DtpsvTest(t, impl)
}

func TestDtpmv(t *testing.T) {
 testblas.DtpmvTest(t, impl)
}
// Copyright 2015 The Gonum Authors. All rights reserved.
// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.
```

```
package gonum

// Iladlr scans a matrix for its last non-zero row. Returns -1 if the matrix
// is all zeros.
//
// Iladlr is an internal routine. It is exported for testing purposes.
func (Implementation) Iladlr(m, n int, a []float64, lda int) int {
 switch {
 case m < 0:
  panic(mLT0)
 case n < 0:
  panic(nLT0)
 case lda < max(1, n):
  panic(badLdA)
 }

 if n == 0 || m == 0 {
  return -1
 }

 if len(a) < (m-1)*lda+n {
  panic(shortA)
 }

 // Check the common case where the corner is non-zero
 if a[(m-1)*lda] != 0 || a[(m-1)*lda+n-1] != 0 {
  return m - 1
 }
 for i := m - 1; i >= 0; i-- {
  for j := 0; j < n; j++ {
   if a[i*lda+j] != 0 {
    return i
   }
  }
 }
 return -1
}
graph{""[diE=""diA=""diA=""]}
graph{"\\\
\\\
\\\
\\\
\\\\\\
\\\
\\\\\\\\\\
sssubgrasss}\s}\\\\\\\\\
\\\\\\\\\\\"}
```

```
graph{{Digrap}}
graph{{{{EDGD}EDGD{EDGD}}}}
// Copyright 2018 The Gonum Authors. All rights reserved.
// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

// This is a translation of the FFTPACK rfft functions by
// Paul N Swarztrauber, placed in the public domain at
// http://www.netlib.org/fftpack/.

package fftpack

import "math"

// Rffti initializes the array work which is used in both Rfftf
// and Rfftb. The prime factorization of n together with a
// tabulation of the trigonometric functions are computed and
// stored in work.
//
//  Input parameter:
//
//  n      The length of the sequence to be transformed.
//
//  Output parameters:
//
//  work   A work array which must be dimensioned at least 2*n.
//         The same work array can be used for both Rfftf and Rfftb
//         as long as n remains unchanged. different work arrays
//         are required for different values of n. The contents of
//         work must not be changed between calls of Rfftf or Rfftb.
//
//
 ifac   A work array containing the factors of n. ifac must have
//         length of at least 15.
func Rffti(n int, work []float64, ifac []int) {
 if len(work) < 2*n {
  panic("fourier: short work")
 }
 if len(ifac) < 15 {
  panic("fourier: short ifac")
 }
 if n == 1 {
  return
 }
 rffti1(n, work[n:2*n], ifac[:15])
}

func rffti1(n int, wa []float64, ifac []int) {
```

```
ntryh := [4]int{4, 2, 3, 5}

nl := n
nf := 0

outer:
for j, ntry := 0, 0; ; j++ {
 if j < 4 {
  ntry = ntryh[j]
 } else {
  ntry += 2
 }
 for {
  if nl%ntry != 0 {
   continue outer
  }

  ifac[nf+2] = ntry
  nl /= ntry
  nf++

  if ntry == 2 && nf != 1 {
   for i := 1; i < nf; i++ {
    ib := nf - i + 1
    ifac[ib+1] = ifac[ib]
   }
   ifac[2] = 2
  }

  if nl == 1 {
   break outer
  }
 }
}

ifac[0] = n
ifac[1] = nf
if nf == 1 {
 return
}
argh := 2 * math.Pi / float64(n)

is := 0
l1 := 1
for k1 := 0; k1 < nf-1; k1++ {
 ip := ifac[k1+2]
 ld := 0
 l2 := l1 * ip
```

```
  ido := n / l2
  for j :=
 0; j < ip-1; j++ {
   ld += l1
   i := is
   fi := 0.
   argld := float64(ld) * argh
   for ii := 2; ii < ido; ii += 2 {
    fi++
    arg := fi * argld
    wa[i] = math.Cos(arg)
    wa[i+1] = math.Sin(arg)
    i += 2
   }
   is += ido
  }
  l1 = l2
 }
}

// Rfftf computes the Fourier coefficients of a real perodic sequence
// (Fourier analysis). The transform is defined below at output
// parameter r.
//
//  Input parameters:
//
//  n      The length of the array r to be transformed. The method
//         is most efficient when n is a product of small primes.
//         n may change so long as different work arrays are provided.
//
//  r      A real array of length n which contains the sequence
//         to be transformed.
//
//  work   a work array which must be dimensioned at least 2*n.
//         in the program that calls Rfftf. the work array must be
//         initialized by calling subroutine rffti(n,work,ifac) and a
//         different work array must be used for each different
//
         value of n. This initialization does not have to be
//         repeated so long as n remains unchanged. Thus subsequent
//         transforms can be obtained faster than the first.
//         The same work array can be used by Rfftf and Rfftb.
//
//  ifac   A work array containing the factors of n. ifac must have
//         length of at least 15.
//
//  Output parameters:
//
```

```
//  r      r[0] = the sum from i=0 to i=n-1 of r[i]
//
//         if n is even set l=n/2, if n is odd set l = (n+1)/2
//           then for k = 1, ..., l-1
//             r[2*k-1] = the sum from i = 0 to i = n-1 of
//               r[i]*cos(k*i*2*pi/n)
//             r[2*k] = the sum from i = 0 to i = n-1 of
//               -r[i]*sin(k*i*2*pi/n)
//
//         if n is even
//           r[n-1] = the sum from i = 0 to i = n-1 of
//             (-1)^i*r[i]
//
//  This transform is unnormalized since a call of Rfftf
//  followed by a call of Rfftb will multiply the input
//  sequence by n.
//
//  work
 contains results which must not be destroyed between
//         calls of Rfftf or Rfftb.
//  ifac   contains results which must not be destroyed between
//         calls of Rfftf or Rfftb.
func Rfftf(n int, r, work []float64, ifac []int) {
 if len(r) < n {
  panic("fourier: short sequence")
 }
 if len(work) < 2*n {
  panic("fourier: short work")
 }
 if len(ifac) < 15 {
  panic("fourier: short ifac")
 }
 if n == 1 {
  return
 }
 rfftf1(n, r[:n], work[:n], work[n:2*n], ifac[:15])
}

func rfftf1(n int, c, ch, wa []float64, ifac []int) {
 nf := ifac[1]
 na := true
 l2 := n
 iw := n - 1

 for k1 := 1; k1 <= nf; k1++ {
  kh := nf - k1
  ip := ifac[kh+2]
  l1 := l2 / ip
```

```
 ido := n / l2
 idl1 := ido * l1
 iw -= (ip - 1) * ido
 na = !na

 switch ip {
 case 4:
  ix2 := iw + ido
  ix3 := ix2 + ido
  if na {
   radf4(ido, l1, ch, c, wa[iw:], wa[ix2:], wa[ix3:])
  } else {
   radf4(ido, l1, c, ch, wa[iw:], wa[ix2:], wa[ix3:])
  }
 case 2:
  if na {
   radf2(ido, l1, ch, c, wa[iw:])
  }
else {
   radf2(ido, l1, c, ch, wa[iw:])
  }
 case 3:
  ix2 := iw + ido
  if na {
   radf3(ido, l1, ch, c, wa[iw:], wa[ix2:])
  } else {
   radf3(ido, l1, c, ch, wa[iw:], wa[ix2:])
  }
 case 5:
  ix2 := iw + ido
  ix3 := ix2 + ido
  ix4 := ix3 + ido
  if na {
   radf5(ido, l1, ch, c, wa[iw:], wa[ix2:], wa[ix3:], wa[ix4:])
  } else {
   radf5(ido, l1, c, ch, wa[iw:], wa[ix2:], wa[ix3:], wa[ix4:])
  }
 default:
  if ido == 1 {
   na = !na
  }
  if na {
   radfg(ido, ip, l1, idl1, ch, ch, ch, c, c, wa[iw:])
   na = false
  } else {
   radfg(ido, ip, l1, idl1, c, c, c, ch, ch, wa[iw:])
   na = true
  }
```

```
 }

 l2 = l1
 }

 if na {
  return
 }
 for i := 0; i < n; i++ {
  c[i] = ch[i]
 }
}

func radf2(ido, l1 int, cc, ch, wa1 []float64) {
 cc3 := newThreeArray(ido, l1, 2, cc)
 ch3 := newThreeArray(ido, 2, l1, ch)

 for k := 0; k < l1; k++ {
  ch3.set(0, 0, k, cc3.at(0, k, 0)+cc3.at(0, k, 1))
  ch3.set(ido-1, 1, k, cc3.at(0, k, 0)-cc3.at(0, k, 1))
 }
 if ido <
 2 {
  return
 }
 if ido > 2 {
  idp2 := ido + 1
  for k := 0; k < l1; k++ {
   for i := 2; i < ido; i += 2 {
    ic := idp2 - (i + 1)
    tr2 := wa1[i-2]*cc3.at(i-1, k, 1) + wa1[i-1]*cc3.at(i, k, 1)
    ti2 := wa1[i-2]*cc3.at(i, k, 1) - wa1[i-1]*cc3.at(i-1, k, 1)
    ch3.set(i, 0, k, cc3.at(i, k, 0)+ti2)
    ch3.set(ic, 1, k, ti2-cc3.at(i, k, 0))
    ch3.set(i-1, 0, k, cc3.at(i-1, k, 0)+tr2)
    ch3.set(ic-1, 1, k, cc3.at(i-1, k, 0)-tr2)
   }
  }
  if ido%2 == 1 {
   return
  }
 }
 for k := 0; k < l1; k++ {
  ch3.set(0, 1, k, -cc3.at(ido-1, k, 1))
  ch3.set(ido-1, 0, k, cc3.at(ido-1, k, 0))
 }
}
```

```
func radf3(ido, l1 int, cc, ch, wa1, wa2 []float64) {
 const (
  taur = -0.5
  taui = 0.866025403784439 // sqrt(3)/2
 )

 cc3 := newThreeArray(ido, l1, 3, cc)
 ch3 := newThreeArray(ido, 3, l1, ch)

 for k := 0; k < l1; k++ {
  cr2 := cc3.at(0, k, 1) + cc3.at(0, k, 2)
  ch3.set(0, 0, k, cc3.at(0, k, 0)+cr2)
  ch3.set(0, 2, k, taui*(cc3.at(0, k, 2)-cc3.at(0, k, 1)))
  ch3.set(ido-1, 1, k, cc3.at(0,
 k, 0)+taur*cr2)
 }
 if ido < 2 {
  return
 }
 idp2 := ido + 1
 for k := 0; k < l1; k++ {
  for i := 2; i < ido; i += 2 {
   ic := idp2 - (i + 1)
   dr2 := wa1[i-2]*cc3.at(i-1, k, 1) + wa1[i-1]*cc3.at(i, k, 1)
   di2 := wa1[i-2]*cc3.at(i, k, 1) - wa1[i-1]*cc3.at(i-1, k, 1)
   dr3 := wa2[i-2]*cc3.at(i-1, k, 2) + wa2[i-1]*cc3.at(i, k, 2)
   di3 := wa2[i-2]*cc3.at(i, k, 2) - wa2[i-1]*cc3.at(i-1, k, 2)
   cr2 := dr2 + dr3
   ci2 := di2 + di3
   ch3.set(i-1, 0, k, cc3.at(i-1, k, 0)+cr2)
   ch3.set(i, 0, k, cc3.at(i, k, 0)+ci2)
   tr2 := cc3.at(i-1, k, 0) + taur*cr2
   ti2 := cc3.at(i, k, 0) + taur*ci2
   tr3 := taui * (di2 - di3)
   ti3 := taui * (dr3 - dr2)
   ch3.set(i-1, 2, k, tr2+tr3)
   ch3.set(ic-1, 1, k, tr2-tr3)
   ch3.set(i, 2, k, ti2+ti3)
   ch3.set(ic, 1, k, ti3-ti2)
  }
 }
}

func radf4(ido, l1 int, cc, ch, wa1, wa2, wa3 []float64) {
 const hsqt2 = math.Sqrt2 / 2

 cc3 := newThreeArray(ido, l1, 4, cc)
 ch3 := newThreeArray(ido, 4, l1, ch)
```

```
for k := 0; k < l1; k++ {
 tr1 :=
cc3.at(0, k, 1) + cc3.at(0, k, 3)
 tr2 := cc3.at(0, k, 0) + cc3.at(0, k, 2)
 ch3.set(0, 0, k, tr1+tr2)
 ch3.set(ido-1, 3, k, tr2-tr1)
 ch3.set(ido-1, 1, k, cc3.at(0, k, 0)-cc3.at(0, k, 2))
 ch3.set(0, 2, k, cc3.at(0, k, 3)-cc3.at(0, k, 1))
}
if ido < 2 {
 return
}
if ido > 2 {
 idp2 := ido + 1
 for k := 0; k < l1; k++ {
  for i := 2; i < ido; i += 2 {
   ic := idp2 - (i + 1)
   cr2 := wa1[i-2]*cc3.at(i-1, k, 1) + wa1[i-1]*cc3.at(i, k, 1)
   ci2 := wa1[i-2]*cc3.at(i, k, 1) - wa1[i-1]*cc3.at(i-1, k, 1)
   cr3 := wa2[i-2]*cc3.at(i-1, k, 2) + wa2[i-1]*cc3.at(i, k, 2)
   ci3 := wa2[i-2]*cc3.at(i, k, 2) - wa2[i-1]*cc3.at(i-1, k, 2)
   cr4 := wa3[i-2]*cc3.at(i-1, k, 3) + wa3[i-1]*cc3.at(i, k, 3)
   ci4 := wa3[i-2]*cc3.at(i, k, 3) - wa3[i-1]*cc3.at(i-1, k, 3)
   tr1 := cr2 + cr4
   tr4 := cr4 - cr2
   ti1 := ci2 + ci4
   ti4 := ci2 - ci4
   ti2 := cc3.at(i, k, 0) + ci3
   ti3 := cc3.at(i, k, 0) - ci3
   tr2 := cc3.at(i-1, k, 0) + cr3
   tr3 := cc3.at(i-1, k, 0) - cr3
   ch3.set(i-1,
0, k, tr1+tr2)
   ch3.set(ic-1, 3, k, tr2-tr1)
   ch3.set(i, 0, k, ti1+ti2)
   ch3.set(ic, 3, k, ti1-ti2)
   ch3.set(i-1, 2, k, ti4+tr3)
   ch3.set(ic-1, 1, k, tr3-ti4)
   ch3.set(i, 2, k, tr4+ti3)
   ch3.set(ic, 1, k, tr4-ti3)
  }
 }

 if ido%2 == 1 {
  return
 }
}
```

```
 for k := 0; k < l1; k++ {
  ti1 := -hsqt2 * (cc3.at(ido-1, k, 1) + cc3.at(ido-1, k, 3))
  tr1 := hsqt2 * (cc3.at(ido-1, k, 1) - cc3.at(ido-1, k, 3))
  ch3.set(ido-1, 0, k, tr1+cc3.at(ido-1, k, 0))
  ch3.set(ido-1, 2, k, cc3.at(ido-1, k, 0)-tr1)
  ch3.set(0, 1, k, ti1-cc3.at(ido-1, k, 2))
  ch3.set(0, 3, k, ti1+cc3.at(ido-1, k, 2))
 }
}

func radf5(ido, l1 int, cc, ch, wa1, wa2, wa3, wa4 []float64) {
 const (
  tr11 = 0.309016994374947
  ti11 = 0.951056516295154
  tr12 = -0.809016994374947
  ti12 = 0.587785252292473
 )

 cc3 := newThreeArray(ido, l1, 5, cc)
 ch3 := newThreeArray(ido, 5, l1, ch)

 for k := 0; k < l1; k++ {
  cr2 := cc3.at(0, k, 4) + cc3.at(0, k, 1)
  ci5 := cc3.at(0, k, 4) - cc3.at(0,
 k, 1)
  cr3 := cc3.at(0, k, 3) + cc3.at(0, k, 2)
  ci4 := cc3.at(0, k, 3) - cc3.at(0, k, 2)
  ch3.set(0, 0, k, cc3.at(0, k, 0)+cr2+cr3)
  ch3.set(ido-1, 1, k, cc3.at(0, k, 0)+tr11*cr2+tr12*cr3)
  ch3.set(0, 2, k, ti11*ci5+ti12*ci4)
  ch3.set(ido-1, 3, k, cc3.at(0, k, 0)+tr12*cr2+tr11*cr3)
  ch3.set(0, 4, k, ti12*ci5-ti11*ci4)
 }

 if ido < 2 {
  return
 }
 idp2 := ido + 1
 for k := 0; k < l1; k++ {
  for i := 2; i < ido; i += 2 {
   ic := idp2 - (i + 1)
   dr2 := wa1[i-2]*cc3.at(i-1, k, 1) + wa1[i-1]*cc3.at(i, k, 1)
   di2 := wa1[i-2]*cc3.at(i, k, 1) - wa1[i-1]*cc3.at(i-1, k, 1)
   dr3 := wa2[i-2]*cc3.at(i-1, k, 2) + wa2[i-1]*cc3.at(i, k, 2)
   di3 := wa2[i-2]*cc3.at(i, k, 2) - wa2[i-1]*cc3.at(i-1, k, 2)
   dr4 := wa3[i-2]*cc3.at(i-1, k, 3) + wa3[i-1]*cc3.at(i, k, 3)
   di4 := wa3[i-2]*cc3.at(i, k, 3) - wa3[i-1]*cc3.at(i-1, k, 3)
   dr5 := wa4[i-2]*cc3.at(i-1, k, 4) + wa4[i-1]*cc3.at(i, k, 4)
```

```
  di5 := wa4[i-2]*cc3.at(i, k, 4) - wa4[i-1]*cc3.at(i-1, k, 4)
  cr2 := dr2 + dr5
  ci5
 := dr5 - dr2
  cr5 := di2 - di5
  ci2 := di2 + di5
  cr3 := dr3 + dr4
  ci4 := dr4 - dr3
  cr4 := di3 - di4
  ci3 := di3 + di4
  ch3.set(i-1, 0, k, cc3.at(i-1, k, 0)+cr2+cr3)
  ch3.set(i, 0, k, cc3.at(i, k, 0)+ci2+ci3)
  tr2 := cc3.at(i-1, k, 0) + tr11*cr2 + tr12*cr3
  ti2 := cc3.at(i, k, 0) + tr11*ci2 + tr12*ci3
  tr3 := cc3.at(i-1, k, 0) + tr12*cr2 + tr11*cr3
  ti3 := cc3.at(i, k, 0) + tr12*ci2 + tr11*ci3
  tr5 := ti11*cr5 + ti12*cr4
  ti5 := ti11*ci5 + ti12*ci4
  tr4 := ti12*cr5 - ti11*cr4
  ti4 := ti12*ci5 - ti11*ci4
  ch3.set(i-1, 2, k, tr2+tr5)
  ch3.set(ic-1, 1, k, tr2-tr5)
  ch3.set(i, 2, k, ti2+ti5)
  ch3.set(ic, 1, k, ti5-ti2)
  ch3.set(i-1, 4, k, tr3+tr4)
  ch3.set(ic-1, 3, k, tr3-tr4)
  ch3.set(i, 4, k, ti3+ti4)
  ch3.set(ic, 3, k, ti4-ti3)
 }
 }
}

func radfg(ido, ip, l1, idl1 int, cc, c1, c2, ch, ch2, wa []float64) {
 cc3 := newThreeArray(ido, ip, l1, cc)
 c13 := newThreeArray(ido, l1, ip, c1)
 ch3 := newThreeArray(ido, l1, ip, ch)
 c2m := newTwoArray(idl1,
 ip, c2)
 ch2m := newTwoArray(idl1, ip, ch2)

 arg := 2 * math.Pi / float64(ip)
 dcp := math.Cos(arg)
 dsp := math.Sin(arg)
 ipph := (ip + 1) / 2
 nbd := (ido - 1) / 2

 if ido == 1 {
  for ik := 0; ik < idl1; ik++ {
```

```
 c2m.set(ik, 0, ch2m.at(ik, 0))
 }
} else {
 for ik := 0; ik < idl1; ik++ {
  ch2m.set(ik, 0, c2m.at(ik, 0))
 }
 for j := 1; j < ip; j++ {
  for k := 0; k < l1; k++ {
   ch3.set(0, k, j, c13.at(0, k, j))
  }
 }

 is := -ido - 1
 if nbd > l1 {
  for j := 1; j < ip; j++ {
   is += ido
   for k := 0; k < l1; k++ {
    idij := is
    for i := 2; i < ido; i += 2 {
     idij += 2
     ch3.set(i-1, k, j, wa[idij-1]*c13.at(i-1, k, j)+wa[idij]*c13.at(i, k, j))
     ch3.set(i, k, j, wa[idij-1]*c13.at(i, k, j)-wa[idij]*c13.at(i-1, k, j))
    }
   }
  }
 } else {
  for j := 1; j < ip; j++ {
   is += ido
   idij := is
   for i := 2; i < ido; i += 2 {
    idij += 2
    for k := 0; k < l1; k++ {
     ch3.set(i-1, k, j, wa[idij-1]*c13.at(i-1,
k, j)+wa[idij]*c13.at(i, k, j))
     ch3.set(i, k, j, wa[idij-1]*c13.at(i, k, j)-wa[idij]*c13.at(i-1, k, j))
    }
   }
  }
 }
 if nbd < l1 {
  for j := 1; j < ipph; j++ {
   jc := ip - j
   for i := 2; i < ido; i += 2 {
    for k := 0; k < l1; k++ {
     c13.set(i-1, k, j, ch3.at(i-1, k, j)+ch3.at(i-1, k, jc))
     c13.set(i-1, k, jc, ch3.at(i, k, j)-ch3.at(i, k, jc))
     c13.set(i, k, j, ch3.at(i, k, j)+ch3.at(i, k, jc))
     c13.set(i, k, jc, ch3.at(i-1, k, jc)-ch3.at(i-1, k, j))
```

```
    }
   }
  }
 } else {
  for j := 1; j < ipph; j++ {
   jc := ip - j
   for k := 0; k < l1; k++ {
    for i := 2; i < ido; i += 2 {
     c13.set(i-1, k, j, ch3.at(i-1, k, j)+ch3.at(i-1, k, jc))
     c13.set(i-1, k, jc, ch3.at(i, k, j)-ch3.at(i, k, jc))
     c13.set(i, k, j, ch3.at(i, k, j)+ch3.at(i, k, jc))
     c13.set(i, k, jc, ch3.at(i-1, k, jc)-ch3.at(i-1, k, j))
    }
   }
  }
 }
}

for j := 1; j < ipph; j++ {
 jc := ip - j
 for k := 0; k < l1; k++ {
  c13.set(0,
k, j, ch3.at(0, k, j)+ch3.at(0, k, jc))
  c13.set(0, k, jc, ch3.at(0, k, jc)-ch3.at(0, k, j))
 }
}
ar1 := 1.0
ai1 := 0.0
for l := 1; l < ipph; l++ {
 lc := ip - l
 ar1h := dcp*ar1 - dsp*ai1
 ai1 = dcp*ai1 + dsp*ar1
 ar1 = ar1h
 for ik := 0; ik < idl1; ik++ {
  ch2m.set(ik, l, c2m.at(ik, 0)+ar1*c2m.at(ik, 1))
  ch2m.set(ik, lc, ai1*c2m.at(ik, ip-1))
 }
 dc2 := ar1
 ds2 := ai1
 ar2 := ar1
 ai2 := ai1
 for j := 2; j < ipph; j++ {
  jc := ip - j
  ar2h := dc2*ar2 - ds2*ai2
  ai2 = dc2*ai2 + ds2*ar2
  ar2 = ar2h
  for ik := 0; ik < idl1; ik++ {
   ch2m.add(ik, l, ar2*c2m.at(ik, j))
```

```
   ch2m.add(ik, lc, ai2*c2m.at(ik, jc))
  }
 }
}
for j := 1; j < ipph; j++ {
 for ik := 0; ik < idl1; ik++ {
  ch2m.add(ik, 0, c2m.at(ik, j))
 }
}

if ido < l1 {
 for i := 0; i < ido; i++ {
  for k := 0; k < l1; k++ {
   cc3.set(i, 0, k, ch3.at(i, k, 0))
  }
 }
} else {
 for k := 0; k < l1; k++ {
  for i := 0; i < ido; i++ {
   cc3.set(i, 0, k, ch3.at(i, k, 0))
  }
 }
}
for
j := 1; j < ipph; j++ {
 jc := ip - j
 j2 := 2 * j
 for k := 0; k < l1; k++ {
  cc3.set(ido-1, j2-1, k, ch3.at(0, k, j))
  cc3.set(0, j2, k, ch3.at(0, k, jc))
 }
}

if ido == 1 {
 return
}
if nbd < l1 {
 for j := 1; j < ipph; j++ {
  jc := ip - j
  j2 := 2 * j
  for i := 2; i < ido; i += 2 {
   ic := ido - i
   for k := 0; k < l1; k++ {
    cc3.set(i-1, j2, k, ch3.at(i-1, k, j)+ch3.at(i-1, k, jc))
    cc3.set(ic-1, j2-1, k, ch3.at(i-1, k, j)-ch3.at(i-1, k, jc))
    cc3.set(i, j2, k, ch3.at(i, k, j)+ch3.at(i, k, jc))
    cc3.set(ic, j2-1, k, ch3.at(i, k, jc)-ch3.at(i, k, j))
   }
```

```
   }
  }
  return
 }
 for j := 1; j < ipph; j++ {
  jc := ip - j
  j2 := 2 * j
  for k := 0; k < l1; k++ {
   for i := 2; i < ido; i += 2 {
    ic := ido - i
    cc3.set(i-1, j2, k, ch3.at(i-1, k, j)+ch3.at(i-1, k, jc))
    cc3.set(ic-1, j2-1, k, ch3.at(i-1, k, j)-ch3.at(i-1, k, jc))
    cc3.set(i, j2, k, ch3.at(i, k, j)+ch3.at(i, k, jc))
    cc3.set(ic, j2-1, k, ch3.at(i, k, jc)-ch3.at(i,
 k, j))
   }
  }
 }
}

// Rfftb computes the real perodic sequence from its Fourier
// coefficients (Fourier synthesis). The transform is defined
// below at output parameter r.
//
//  Input parameters
//
//  n      The length of the array r to be transformed. The method
//         is most efficient when n is a product of small primes.
//         n may change so long as different work arrays are provided.
//
//  r      A real array of length n which contains the sequence
//         to be transformed.
//
//  work   A work array which must be dimensioned at least 2*n.
//         in the program that calls Rfftb. The work array must be
//         initialized by calling subroutine rffti(n,work,ifac) and a
//         different work array must be used for each different
//         value of n. This initialization does not have to be
//         repeated so long as n remains unchanged thus subsequent
//         transforms can be obtained faster than the first.
//         The same work
 array can be used by Rfftf and Rfftb.
//
//  ifac   A work array containing the factors of n. ifac must have
//         length of at least 15.
//
//  output parameters
//
```

```
//  r      for n even and for i = 0, ..., n
//           r[i] = r[0]+(-1)^i*r[n-1]
//             plus the sum from k=1 to k=n/2-1 of
//               2*r(2*k-1)*cos(k*i*2*pi/n)
//               -2*r(2*k)*sin(k*i*2*pi/n)
//
//         for n odd and for i = 0, ..., n-1
//           r[i] = r[0] plus the sum from k=1 to k=(n-1)/2 of
//             2*r(2*k-1)*cos(k*i*2*pi/n)
//             -2*r(2*k)*sin(k*i*2*pi/n)
//
//  This transform is unnormalized since a call of Rfftf
//  followed by a call of Rfftb will multiply the input
//  sequence by n.
//
//  work   Contains results which must not be destroyed between
//         calls of Rfftf or Rfftb.
//  ifac   Contains results which must not be destroyed between
//         calls of Rfftf or Rfftb.
func Rfftb(n int, r, work []float64, ifac []int) {
 if len(r) < n {
  panic("fourier:
 short sequence")
 }
 if len(work) < 2*n {
  panic("fourier: short work")
 }
 if len(ifac) < 15 {
  panic("fourier: short ifac")
 }
 if n == 1 {
  return
 }
 rfftb1(n, r[:n], work[:n], work[n:2*n], ifac[:15])
}

func rfftb1(n int, c, ch, wa []float64, ifac []int) {
 nf := ifac[1]
 na := false
 l1 := 1
 iw := 0

 for k1 := 1; k1 <= nf; k1++ {
  ip := ifac[k1+1]
  l2 := ip * l1
  ido := n / l2
  idl1 := ido * l1
```

```
 switch ip {
 case 4:
  ix2 := iw + ido
  ix3 := ix2 + ido
  if na {
   radb4(ido, l1, ch, c, wa[iw:], wa[ix2:], wa[ix3:])
  } else {
   radb4(ido, l1, c, ch, wa[iw:], wa[ix2:], wa[ix3:])
  }
  na = !na
 case 2:
  if na {
   radb2(ido, l1, ch, c, wa[iw:])
  } else {
   radb2(ido, l1, c, ch, wa[iw:])
  }
  na = !na
 case 3:
  ix2 := iw + ido
  if na {
   radb3(ido, l1, ch, c, wa[iw:], wa[ix2:])
  } else {
   radb3(ido, l1, c, ch, wa[iw:], wa[ix2:])
  }
  na = !na
 case 5:
  ix2 := iw + ido
  ix3 := ix2 + ido
  ix4 := ix3 + ido
  if na {
   radb5(ido,
l1, ch, c, wa[iw:], wa[ix2:], wa[ix3:], wa[ix4:])
  } else {
   radb5(ido, l1, c, ch, wa[iw:], wa[ix2:], wa[ix3:], wa[ix4:])
  }
  na = !na
 default:
  if na {
   radbg(ido, ip, l1, idl1, ch, ch, ch, c, c, wa[iw:])
  } else {
   radbg(ido, ip, l1, idl1, c, c, c, ch, ch, wa[iw:])
  }
  if ido == 1 {
   na = !na
  }
 }

 l1 = l2
```

```
 iw += (ip - 1) * ido
 }

 if na {
  for i := 0; i < n; i++ {
   c[i] = ch[i]
  }
 }
}

func radb2(ido, l1 int, cc, ch, wa1 []float64) {
 cc3 := newThreeArray(ido, 2, l1, cc)
 ch3 := newThreeArray(ido, l1, 2, ch)

 for k := 0; k < l1; k++ {
  ch3.set(0, k, 0, cc3.at(0, 0, k)+cc3.at(ido-1, 1, k))
  ch3.set(0, k, 1, cc3.at(0, 0, k)-cc3.at(ido-1, 1, k))
 }

 if ido < 2 {
  return
 }
 if ido > 2 {
  idp2 := ido + 1
  for k := 0; k < l1; k++ {
   for i := 2; i < ido; i += 2 {
    ic := idp2 - (i + 1)
    ch3.set(i-1, k, 0, cc3.at(i-1, 0, k)+cc3.at(ic-1, 1, k))
    tr2 := cc3.at(i-1, 0, k) - cc3.at(ic-1, 1, k)
    ch3.set(i, k, 0, cc3.at(i,
 0, k)-cc3.at(ic, 1, k))
    ti2 := cc3.at(i, 0, k) + cc3.at(ic, 1, k)
    ch3.set(i-1, k, 1, wa1[i-2]*tr2-wa1[i-1]*ti2)
    ch3.set(i, k, 1, wa1[i-2]*ti2+wa1[i-1]*tr2)
   }
  }

  if ido%2 == 1 {
   return
  }
 }
 for k := 0; k < l1; k++ {
  ch3.set(ido-1, k, 0, 2*cc3.at(ido-1, 0, k))
  ch3.set(ido-1, k, 1, -2*cc3.at(0, 1, k))
 }
}

func radb3(ido, l1 int, cc, ch, wa1, wa2 []float64) {
```

```
const (
 taur = -0.5
 taui = 0.866025403784439 // sqrt(3)/2
)

cc3 := newThreeArray(ido, 3, l1, cc)
ch3 := newThreeArray(ido, l1, 3, ch)

for k := 0; k < l1; k++ {
 tr2 := cc3.at(ido-1, 1, k) + cc3.at(ido-1, 1, k)
 cr2 := cc3.at(0, 0, k) + taur*tr2
 ch3.set(0, k, 0, cc3.at(0, 0, k)+tr2)
 ci3 := taui * (cc3.at(0, 2, k) + cc3.at(0, 2, k))
 ch3.set(0, k, 1, cr2-ci3)
 ch3.set(0, k, 2, cr2+ci3)
}

if ido == 1 {
 return
}

idp2 := ido + 1
for k := 0; k < l1; k++ {
 for i := 2; i < ido; i += 2 {
  ic := idp2 - (i + 1)
  tr2 := cc3.at(i-1, 2, k) + cc3.at(ic-1, 1, k)
  cr2 := cc3.at(i-1, 0,
k) + taur*tr2
  ch3.set(i-1, k, 0, cc3.at(i-1, 0, k)+tr2)
  ti2 := cc3.at(i, 2, k) - cc3.at(ic, 1, k)
  ci2 := cc3.at(i, 0, k) + taur*ti2
  ch3.set(i, k, 0, cc3.at(i, 0, k)+ti2)
  cr3 := taui * (cc3.at(i-1, 2, k) - cc3.at(ic-1, 1, k))
  ci3 := taui * (cc3.at(i, 2, k) + cc3.at(ic, 1, k))
  dr2 := cr2 - ci3
  dr3 := cr2 + ci3
  di2 := ci2 + cr3
  di3 := ci2 - cr3
  ch3.set(i-1, k, 1, wa1[i-2]*dr2-wa1[i-1]*di2)
  ch3.set(i, k, 1, wa1[i-2]*di2+wa1[i-1]*dr2)
  ch3.set(i-1, k, 2, wa2[i-2]*dr3-wa2[i-1]*di3)
  ch3.set(i, k, 2, wa2[i-2]*di3+wa2[i-1]*dr3)
 }
}
}

func radb4(ido, l1 int, cc, ch, wa1, wa2, wa3 []float64) {
 cc3 := newThreeArray(ido, 4, l1, cc)
```

```
ch3 := newThreeArray(ido, l1, 4, ch)

for k := 0; k < l1; k++ {
 tr1 := cc3.at(0, 0, k) - cc3.at(ido-1, 3, k)
 tr2 := cc3.at(0, 0, k) + cc3.at(ido-1, 3, k)
 tr3 := cc3.at(ido-1, 1, k) + cc3.at(ido-1, 1, k)
 tr4 := cc3.at(0, 2, k) + cc3.at(0, 2, k)
 ch3.set(0, k, 0, tr2+tr3)
 ch3.set(0, k, 1, tr1-tr4)
 ch3.set(0, k,
2, tr2-tr3)
 ch3.set(0, k, 3, tr1+tr4)
}

if ido < 2 {
 return
}
if ido > 2 {
 idp2 := ido + 1
 for k := 0; k < l1; k++ {
  for i := 2; i < ido; i += 2 {
   ic := idp2 - (i + 1)
   ti1 := cc3.at(i, 0, k) + cc3.at(ic, 3, k)
   ti2 := cc3.at(i, 0, k) - cc3.at(ic, 3, k)
   ti3 := cc3.at(i, 2, k) - cc3.at(ic, 1, k)
   tr4 := cc3.at(i, 2, k) + cc3.at(ic, 1, k)
   tr1 := cc3.at(i-1, 0, k) - cc3.at(ic-1, 3, k)
   tr2 := cc3.at(i-1, 0, k) + cc3.at(ic-1, 3, k)
   ti4 := cc3.at(i-1, 2, k) - cc3.at(ic-1, 1, k)
   tr3 := cc3.at(i-1, 2, k) + cc3.at(ic-1, 1, k)
   ch3.set(i-1, k, 0, tr2+tr3)
   cr3 := tr2 - tr3
   ch3.set(i, k, 0, ti2+ti3)
   ci3 := ti2 - ti3
   cr2 := tr1 - tr4
   cr4 := tr1 + tr4
   ci2 := ti1 + ti4
   ci4 := ti1 - ti4
   ch3.set(i-1, k, 1, wa1[i-2]*cr2-wa1[i-1]*ci2)
   ch3.set(i, k, 1, wa1[i-2]*ci2+wa1[i-1]*cr2)
   ch3.set(i-1, k, 2, wa2[i-2]*cr3-wa2[i-1]*ci3)
   ch3.set(i, k, 2, wa2[i-2]*ci3+wa2[i-1]*cr3)
   ch3.set(i-1, k, 3, wa3[i-2]*cr4-wa3[i-1]*ci4)
   ch3.set(i,
k, 3, wa3[i-2]*ci4+wa3[i-1]*cr4)
  }
 }
```

```
 if ido%2 == 1 {
  return
 }
}
for k := 0; k < l1; k++ {
 ti1 := cc3.at(0, 1, k) + cc3.at(0, 3, k)
 ti2 := cc3.at(0, 3, k) - cc3.at(0, 1, k)
 tr1 := cc3.at(ido-1, 0, k) - cc3.at(ido-1, 2, k)
 tr2 := cc3.at(ido-1, 0, k) + cc3.at(ido-1, 2, k)
 ch3.set(ido-1, k, 0, tr2+tr2)
 ch3.set(ido-1, k, 1, math.Sqrt2*(tr1-ti1))
 ch3.set(ido-1, k, 2, ti2+ti2)
 ch3.set(ido-1, k, 3, -math.Sqrt2*(tr1+ti1))
}
}

func radb5(ido, l1 int, cc, ch, wa1, wa2, wa3, wa4 []float64) {
 const (
  tr11 = 0.309016994374947
  ti11 = 0.951056516295154
  tr12 = -0.809016994374947
  ti12 = 0.587785252292473
 )

 cc3 := newThreeArray(ido, 5, l1, cc)
 ch3 := newThreeArray(ido, l1, 5, ch)

 for k := 0; k < l1; k++ {
  ti5 := cc3.at(0, 2, k) + cc3.at(0, 2, k)
  ti4 := cc3.at(0, 4, k) + cc3.at(0, 4, k)
  tr2 := cc3.at(ido-1, 1, k) + cc3.at(ido-1, 1, k)
  tr3 := cc3.at(ido-1, 3, k) + cc3.at(ido-1, 3, k)
  ch3.set(0, k, 0, cc3.at(0, 0, k)+tr2+tr3)
  cr2
 := cc3.at(0, 0, k) + tr11*tr2 + tr12*tr3
  cr3 := cc3.at(0, 0, k) + tr12*tr2 + tr11*tr3
  ci5 := ti11*ti5 + ti12*ti4
  ci4 := ti12*ti5 - ti11*ti4
  ch3.set(0, k, 1, cr2-ci5)
  ch3.set(0, k, 2, cr3-ci4)
  ch3.set(0, k, 3, cr3+ci4)
  ch3.set(0, k, 4, cr2+ci5)
 }

 if ido == 1 {
  return
 }
```

```
 idp2 := ido + 1
 for k := 0; k < l1; k++ {
  for i := 2; i < ido; i += 2 {
   ic := idp2 - (i + 1)
   ti5 := cc3.at(i, 2, k) + cc3.at(ic, 1, k)
   ti2 := cc3.at(i, 2, k) - cc3.at(ic, 1, k)
   ti4 := cc3.at(i, 4, k) + cc3.at(ic, 3, k)
   ti3 := cc3.at(i, 4, k) - cc3.at(ic, 3, k)
   tr5 := cc3.at(i-1, 2, k) - cc3.at(ic-1, 1, k)
   tr2 := cc3.at(i-1, 2, k) + cc3.at(ic-1, 1, k)
   tr4 := cc3.at(i-1, 4, k) - cc3.at(ic-1, 3, k)
   tr3 := cc3.at(i-1, 4, k) + cc3.at(ic-1, 3, k)
   ch3.set(i-1, k, 0, cc3.at(i-1, 0, k)+tr2+tr3)
   ch3.set(i, k, 0, cc3.at(i, 0, k)+ti2+ti3)
   cr2 := cc3.at(i-1, 0, k) + tr11*tr2 + tr12*tr3
   ci2 := cc3.at(i, 0, k) + tr11*ti2 + tr12*ti3
   cr3 := cc3.at(i-1, 0, k) + tr12*tr2
 + tr11*tr3
   ci3 := cc3.at(i, 0, k) + tr12*ti2 + tr11*ti3
   cr5 := ti11*tr5 + ti12*tr4
   ci5 := ti11*ti5 + ti12*ti4
   cr4 := ti12*tr5 - ti11*tr4
   ci4 := ti12*ti5 - ti11*ti4
   dr3 := cr3 - ci4
   dr4 := cr3 + ci4
   di3 := ci3 + cr4
   di4 := ci3 - cr4
   dr5 := cr2 + ci5
   dr2 := cr2 - ci5
   di5 := ci2 - cr5
   di2 := ci2 + cr5
   ch3.set(i-1, k, 1, wa1[i-2]*dr2-wa1[i-1]*di2)
   ch3.set(i, k, 1, wa1[i-2]*di2+wa1[i-1]*dr2)
   ch3.set(i-1, k, 2, wa2[i-2]*dr3-wa2[i-1]*di3)
   ch3.set(i, k, 2, wa2[i-2]*di3+wa2[i-1]*dr3)
   ch3.set(i-1, k, 3, wa3[i-2]*dr4-wa3[i-1]*di4)
   ch3.set(i, k, 3, wa3[i-2]*di4+wa3[i-1]*dr4)
   ch3.set(i-1, k, 4, wa4[i-2]*dr5-wa4[i-1]*di5)
   ch3.set(i, k, 4, wa4[i-2]*di5+wa4[i-1]*dr5)
  }
 }
}

func radbg(ido, ip, l1, idl1 int, cc, c1, c2, ch, ch2, wa []float64) {
 cc3 := newThreeArray(ido, ip, l1, cc)
 c13 := newThreeArray(ido, l1, ip, c1)
 ch3 := newThreeArray(ido, l1, ip, ch)
 c2m := newTwoArray(idl1, ip, c2)
```

```
ch2m := newTwoArray(idl1, ip, ch2)

arg :=
2 * math.Pi / float64(ip)
dcp := math.Cos(arg)
dsp := math.Sin(arg)
ipph := (ip + 1) / 2
nbd := (ido - 1) / 2

if ido < l1 {
 for i := 0; i < ido; i++ {
  for k := 0; k < l1; k++ {
   ch3.set(i, k, 0, cc3.at(i, 0, k))
  }
 }
} else {
 for k := 0; k < l1; k++ {
  for i := 0; i < ido; i++ {
   ch3.set(i, k, 0, cc3.at(i, 0, k))
  }
 }
}

for j := 1; j < ipph; j++ {
 jc := ip - j
 j2 := 2 * j
 for k := 0; k < l1; k++ {
  ch3.set(0, k, j, cc3.at(ido-1, j2-1, k)+cc3.at(ido-1, j2-1, k))
  ch3.set(0, k, jc, cc3.at(0, j2, k)+cc3.at(0, j2, k))
 }
}

if ido != 1 {
 if nbd < l1 {
  for j := 1; j < ipph; j++ {
   jc := ip - j
   j2 := 2 * j
   for i := 2; i < ido; i += 2 {
    ic := ido - i
    for k := 0; k < l1; k++ {
     ch3.set(i-1, k, j, cc3.at(i-1, j2, k)+cc3.at(ic-1, j2-1, k))
     ch3.set(i-1, k, jc, cc3.at(i-1, j2, k)-cc3.at(ic-1, j2-1, k))
     ch3.set(i, k, j, cc3.at(i, j2, k)-cc3.at(ic, j2-1, k))
     ch3.set(i, k, jc, cc3.at(i, j2, k)+cc3.at(ic, j2-1,
k))
    }
   }
  }
```

```
 } else {
  for j := 1; j < ipph; j++ {
   jc := ip - j
   j2 := 2 * j
   for k := 0; k < l1; k++ {
    for i := 2; i < ido; i += 2 {
     ic := ido - i
     ch3.set(i-1, k, j, cc3.at(i-1, j2, k)+cc3.at(ic-1, j2-1, k))
     ch3.set(i-1, k, jc, cc3.at(i-1, j2, k)-cc3.at(ic-1, j2-1, k))
     ch3.set(i, k, j, cc3.at(i, j2, k)-cc3.at(ic, j2-1, k))
     ch3.set(i, k, jc, cc3.at(i, j2, k)+cc3.at(ic, j2-1, k))
    }
   }
  }
 }
}

ar1 := 1.0
ai1 := 0.0
for l := 1; l < ipph; l++ {
 lc := ip - l
 ar1h := dcp*ar1 - dsp*ai1
 ai1 = dcp*ai1 + dsp*ar1
 ar1 = ar1h
 for ik := 0; ik < idl1; ik++ {
  c2m.set(ik, l, ch2m.at(ik, 0)+ar1*ch2m.at(ik, 1))
  c2m.set(ik, lc, ai1*ch2m.at(ik, ip-1))
 }
 dc2 := ar1
 ds2 := ai1
 ar2 := ar1
 ai2 := ai1
 for j := 2; j < ipph; j++ {
  jc := ip - j
  ar2h := dc2*ar2 - ds2*ai2
  ai2 = dc2*ai2 + ds2*ar2
  ar2 = ar2h
  for ik := 0; ik < idl1; ik++ {
   c2m.add(ik, l, ar2*ch2m.at(ik, j))
   c2m.add(ik, lc, ai2*ch2m.at(ik,
jc))
  }
 }
}

for j := 1; j < ipph; j++ {
 for ik := 0; ik < idl1; ik++ {
  ch2m.add(ik, 0, ch2m.at(ik, j))
```

```
 }
}
for j := 1; j < ipph; j++ {
 jc := ip - j
 for k := 0; k < l1; k++ {
  ch3.set(0, k, j, c13.at(0, k, j)-c13.at(0, k, jc))
  ch3.set(0, k, jc, c13.at(0, k, j)+c13.at(0, k, jc))
 }
}

if ido != 1 {
 if nbd < l1 {
  for j := 1; j < ipph; j++ {
   jc := ip - j
   for i := 2; i < ido; i += 2 {
    for k := 0; k < l1; k++ {
     ch3.set(i-1, k, j, c13.at(i-1, k, j)-c13.at(i, k, jc))
     ch3.set(i-1, k, jc, c13.at(i-1, k, j)+c13.at(i, k, jc))
     ch3.set(i, k, j, c13.at(i, k, j)+c13.at(i-1, k, jc))
     ch3.set(i, k, jc, c13.at(i, k, j)-c13.at(i-1, k, jc))
    }
   }
  }
 } else {
  for j := 1; j < ipph; j++ {
   jc := ip - j
   for k := 0; k < l1; k++ {
    for i := 2; i < ido; i += 2 {
     ch3.set(i-1, k, j, c13.at(i-1, k, j)-c13.at(i, k, jc))
     ch3.set(i-1, k, jc, c13.at(i-1, k, j)+c13.at(i, k, jc))
     ch3.set(i, k, j, c13.at(i,
k, j)+c13.at(i-1, k, jc))
     ch3.set(i, k, jc, c13.at(i, k, j)-c13.at(i-1, k, jc))
    }
   }
  }
 }
}

if ido == 1 {
 return
}
for ik := 0; ik < idl1; ik++ {
 c2m.set(ik, 0, ch2m.at(ik, 0))
}
for j := 1; j < ip; j++ {
 for k := 0; k < l1; k++ {
  c13.set(0, k, j, ch3.at(0, k, j))
```

```
 }
}

is := -ido - 1
if nbd > l1 {
 for j := 1; j < ip; j++ {
  is += ido
  for k := 0; k < l1; k++ {
   idij := is
   for i := 2; i < ido; i += 2 {
    idij += 2
    c13.set(i-1, k, j, wa[idij-1]*ch3.at(i-1, k, j)-wa[idij]*ch3.at(i, k, j))
    c13.set(i, k, j, wa[idij-1]*ch3.at(i, k, j)+wa[idij]*ch3.at(i-1, k, j))
   }
  }
 }
 return
}
for j := 1; j < ip; j++ {
 is += ido
 idij := is
 for i := 2; i < ido; i += 2 {
  idij += 2
  for k := 0; k < l1; k++ {
   c13.set(i-1, k, j, wa[idij-1]*ch3.at(i-1, k, j)-wa[idij]*ch3.at(i, k, j))
   c13.set(i, k, j, wa[idij-1]*ch3.at(i, k, j)+wa[idij]*ch3.at(i-1, k, j))
  }
 }
}
}
graph{{d3{d9{d3{d9}}}}}
graph{{Gr_}{Gr_{{Gr_}{Gr_{{Gr_}{Gr_}}Gr_}}}}
graph{{{Gra_}Gra_}}
graph{"\\3\\4"{"\\0\\5\\3\\3\\8\\3\\3\\2"}}
graph{Ed}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

// Copyright 2019 The Gonum Authors. All rights reserved.
// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

package unit

import (
 "fmt"
 "testing"
)
```

```
func TestVelocityFormat(t *testing.T) {
 for _, test := range []struct {
  value  Velocity
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 m s^-1"},
  {1.23456789, "%.1v", "1 m s^-1"},
  {1.23456789, "%20.1v", "            1 m s^-1"},
  {1.23456789, "%20v", "   1.23456789 m s^-1"},
  {1.23456789, "%1v", "1.23456789 m s^-1"},
  {1.23456789, "%#v", "unit.Velocity(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Velocity=1.23456789 m s^-1)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
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// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

package testlapack

import (
 "math"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/lapack"
)

type Dlanster interface {
 Dlanst(norm lapack.MatrixNorm, n int, d, e []float64) float64
 Dlanger
}

func DlanstTest(t *testing.T, impl Dlanster) {
 rnd := rand.New(rand.NewSource(1))
 for _, norm := range []lapack.MatrixNorm{lapack.MaxAbs, lapack.MaxColumnSum, lapack.MaxRowSum,
lapack.Frobenius} {
  for _, n := range []int{1, 3, 10, 100} {
   for cas := 0; cas < 100; cas++ {
    // Generate randomly the main diagonal of the
    // symmetric tridiagonal matrix A.
```

```
    d := make([]float64, n)
    for i := range d {
     d[i] = rnd.NormFloat64()
    }
    // Generate randomly the off-diagonal of A.
    e := make([]float64, n-1)
    for i := range e {
     e[i] = rnd.NormFloat64()
    }

    // Create A in dense representation.
    m
 := n
    lda := n
    a := make([]float64, m*lda)
    for i := 0; i < n; i++ {
     a[i*lda+i] = d[i]
    }
    for i := 0; i < n-1; i++ {
     a[i*lda+i+1] = e[i]
     a[(i+1)*lda+i] = e[i]
    }

    work := make([]float64, n)
    // Compute a norm of A using Dlanst.
    syNorm := impl.Dlanst(norm, n, d, e)
    // Compute a reference value for the norm using
    // Dlange and the dense representation of A.
    geNorm := impl.Dlange(norm, m, n, a, lda, work)
    if math.Abs(syNorm-geNorm) > 1e-12 {
     t.Errorf("Norm mismatch: norm = %v, cas = %v, n = %v. Want %v, got %v.", string(norm), cas, n, geNorm,
syNorm)
    }
   }
  }
 }
}
graph{digra_{digra_{{digra_{digra_{digra_}}}digra_}}}
Graph{{Subgr4}}
graph{{diGrapl{{diGrapl}{diGrapp}}diGrapp}}
graph{{NOd{NOr}}}
---
name: Feature request
about: Request an addition to an existing package

---
<!--
Please make sure your issue title matches the Go convention; a summary
```

```
of the problem, prefixed by the primary affected package.
-->
### What are you trying to do?
<!-- Describe the problem you are trying to solve. -->


### What did you try?
<!-- Please include a link to a minimal reproducer here. -->


### How does Gonum not allow you to achieve your goal?


### What version of Go and Gonum are you using?
<!--
Paste the output of `go version` and if you are installing Gonum from source, paste
the output of `(cd $(go env GOPATH)/src/gonum.org/v1/gonum && git rev-parse HEAD)`.
-->


### Is this feature absent from the current master?


### Are you able to help contribute the feature?
<!-- Can you provide code contributions or information to help? -->
graph{eD""eD""eD""eD""eD""eN}
graph{<<TTDDTT>>}
graph{{gr{{gr}}gr{{gr}{{{gr}{}}}}gr}}
graph{{{{subGr}subGr{subGr}{subGr}subGr}subGr}}
graph{{subg_{subg_}subg_}}
graph{{{ed8}ed0}{ed8}ed0}
graph{{DY{DN}DY}DY{DN}{DY{DN}DY}DY{DN}DY}
graph{Subc{{Suba}Suba}}
graph{{Su}Su{{Su}Su{{Su}Su}}{{Su}Su}}
graph{<><>}
graph{{Di_}Di_}
graph{{{{STRIr{STRIr}}STRIr}}}
// SPDX-License-Identifier: Unlicense OR MIT

package path

import (
 "unsafe"
)

// The vertex data suitable for passing to vertex programs.
type Vertex struct {
 CornerX, CornerY int16
```

```
 MaxY            float32
 FromX, FromY     float32
 CtrlX, CtrlY     float32
 ToX, ToY         float32
}

const VertStride = 7*4 + 2*2

func init() {
 // Check that struct vertex has the expected size and
 // that it contains no padding.
 if unsafe.Sizeof(*(*Vertex)(nil)) != VertStride {
  panic("unexpected struct size")
 }
}
graph{{{subG1}subG1{subG1}}}
graph{""""}
graph{{DiG_}{DiG_}{DiG_}{DiG_}}
graph{SUBGRp{SUBGRp}}
graph{{{Ed3{{Ed2}}Ed3{{Ed2}}Ed2}}}
// Copyright 2017 The Gonum Authors. All rights reserved.
// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

package distuv

import (
 "sort"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/floats"
)

func TestPoissonProb(t *testing.T) {
 const tol = 1e-10
 for i, tt := range []struct {
  k      float64
  lambda float64
  want   float64
 }{
  {0, 1, 3.678794411714423e-01},
  {1, 1, 3.678794411714423e-01},
  {2, 1, 1.839397205857211e-01},
  {3, 1, 6.131324019524039e-02},
  {4, 1, 1.532831004881010e-02},
  {5, 1, 3.065662009762020e-03},
```

```
 {6, 1, 5.109436682936698e-04},
 {7, 1, 7.299195261338139e-05},
 {8, 1, 9.123994076672672e-06},
 {9, 1, 1.013777119630298e-06},

 {0, 2.5, 8.208499862389880e-02},
 {1, 2.5, 2.052124965597470e-01},
 {2, 2.5, 2.565156206996838e-01},
 {3, 2.5, 2.137630172497365e-01},
 {4, 2.5, 1.336018857810853e-01},
 {5, 2.5, 6.680094289054267e-02},
 {6, 2.5, 2.783372620439277e-02},
 {7, 2.5, 9.940616501568845e-03},
 {8,
2.5, 3.106442656740263e-03},
 {9, 2.5, 8.629007379834082e-04},

 {0.5, 2.5, 0},
 {1.5, 2.5, 0},
 {2.5, 2.5, 0},
 {3.5, 2.5, 0},
 {4.5, 2.5, 0},
 {5.5, 2.5, 0},
 {6.5, 2.5, 0},
 {7.5, 2.5, 0},
 {8.5, 2.5, 0},
 {9.5, 2.5, 0},
 } {
 p := Poisson{Lambda: tt.lambda}
 got := p.Prob(tt.k)
 if !floats.EqualWithinAbs(got, tt.want, tol) {
  t.Errorf("test-%d: got=%e. want=%e\n", i, got, tt.want)
 }
 }
}

func TestPoissonCDF(t *testing.T) {
 const tol = 1e-10
 for i, tt := range []struct {
  k      float64
  lambda float64
  want   float64
 }{
  {0, 1, 0.367879441171442},
  {1, 1, 0.735758882342885},
  {2, 1, 0.919698602928606},
  {3, 1, 0.981011843123846},
  {4, 1, 0.996340153172656},
```

```
  {5, 1, 0.999405815182418},
  {6, 1, 0.999916758850712},
  {7, 1, 0.999989750803325},
  {8, 1, 0.999998874797402},
  {9, 1, 0.999999888574522},

  {0, 2.5, 0.082084998623899},
  {1, 2.5, 0.287297495183646},
  {2, 2.5, 0.543813115883329},
  {3, 2.5, 0.757576133133066},
  {4,
 2.5, 0.891178018914151},
  {5, 2.5, 0.957978961804694},
  {6, 2.5, 0.985812688009087},
  {7, 2.5, 0.995753304510655},
  {8, 2.5, 0.998859747167396},
  {9, 2.5, 0.999722647905379},
 } {
  p := Poisson{Lambda: tt.lambda}
  got := p.CDF(tt.k)
  if !floats.EqualWithinAbs(got, tt.want, tol) {
   t.Errorf("test-%d: got=%e. want=%e\n", i, got, tt.want)
  }
 }
}

func TestPoisson(t *testing.T) {
 src := rand.New(rand.NewSource(1))
 for i, b := range []Poisson{
  {100, src},
  {15, src},
  {10, src},
  {9.9, src},
  {3, src},
  {1.5, src},
  {0.9, src},
 } {
  testPoisson(t, b, i)
 }
}

func testPoisson(t *testing.T, p Poisson, i int) {
 const (
  tol = 1e-2
  n   = 1e6
 )
 x := make([]float64, n)
 generateSamples(x, p)
```

```
 sort.Float64s(x)

 checkMean(t, i, x, p, tol)
 checkVarAndStd(t, i, x, p, tol)
 checkExKurtosis(t, i, x, p, 7e-2)
}
graph{NoR{{NoR}NoR}}
graph{G:nw K:nw nw:nw}
graph{{DiGray}DiGraq}
graph{SU_{SU_}SU_{}SU_{}SU_{SU_}}
graph{{{EDG}{EDG}}}
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package gonum

import (
 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
)

// Dtrti2 computes the inverse of a triangular matrix, storing the result in place
// into a. This is the BLAS level 2 version of the algorithm.
//
// Dtrti2 is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dtrti2(uplo blas.Uplo, diag blas.Diag, n int, a []float64, lda int) {
 switch {
 case uplo != blas.Upper && uplo != blas.Lower:
  panic(badUplo)
 case diag != blas.NonUnit && diag != blas.Unit:
  panic(badDiag)
 case n < 0:
  panic(nLT0)
 case lda < max(1, n):
  panic(badLdA)
 }

 if n == 0 {
  return
 }

 if len(a) < (n-1)*lda+n {
  panic(shortA)
 }

 bi := blas64.Implementation()
```

```
 nonUnit := diag == blas.NonUnit
 // TODO(btracey): Replace this with a row-major ordering.
 if uplo == blas.Upper {
  for
 j := 0; j < n; j++ {
   var ajj float64
   if nonUnit {
    ajj = 1 / a[j*lda+j]
    a[j*lda+j] = ajj
    ajj *= -1
   } else {
    ajj = -1
   }
   bi.Dtrmv(blas.Upper, blas.NoTrans, diag, j, a, lda, a[j:], lda)
   bi.Dscal(j, ajj, a[j:], lda)
  }
  return
 }
 for j := n - 1; j >= 0; j-- {
  var ajj float64
  if nonUnit {
   ajj = 1 / a[j*lda+j]
   a[j*lda+j] = ajj
   ajj *= -1
  } else {
   ajj = -1
  }
  if j < n-1 {
   bi.Dtrmv(blas.Lower, blas.NoTrans, diag, n-j-1, a[(j+1)*lda+j+1:], lda, a[(j+1)*lda+j:], lda)
   bi.Dscal(n-j-1, ajj, a[(j+1)*lda+j:], lda)
  }
 }
}
graph{{stricN}stricN{stric}stricN{stricN}}
graph {
 node []
 node []
 node []
 edge []
 edge []
 edge []
 {}
 {}
 {}
 {}
 subgraph S {}
 A
 B [style=filled fillcolor=red]
```

```
 C:nw -- D:se
 "foo"
 .10
 -20
 3.14
 F [label=<<div>foo</div>>]
 H [label=<<div></div>>]
 _foo
 a10
}
graph {
}
graph {
}
digraph {
}
digraph {
}
digraph {
}
digraph {
}
digraph {
}
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// license that can be found in the LICENSE file.

package testblas

import (
 "testing"

 "gonum.org/v1/gonum/blas"
)

type Dtbmver interface {
 Dtbmv(ul blas.Uplo, tA blas.Transpose, d blas.Diag, n, k int, a []float64, lda int, x []float64, incX int)
}

func DtbmvTest(t *testing.T, blasser Dtbmver) {
 for i, test := range []struct {
  ul  blas.Uplo
  tA  blas.Transpose
  d   blas.Diag
  n   int
  k   int
  a   [][]float64
```

```
 x   []float64
 ans []float64
}{
 {
  ul: blas.Upper,
  tA: blas.NoTrans,
  d:  blas.Unit,
  n:  3,
  k:  1,
  a: [][]float64{
   {1, 2, 0},
   {0, 1, 4},
   {0, 0, 1},
  },
  x:   []float64{2, 3, 4},
  ans: []float64{8, 19, 4},
 },
 {
  ul: blas.Upper,
  tA: blas.NoTrans,
  d:  blas.NonUnit,
  n:  5,
  k:  1,
  a: [][]float64{
   {1, 3, 0, 0, 0},
   {0, 6, 7, 0, 0},
   {0, 0, 2, 1, 0},
   {0, 0, 0, 12, 3},
   {0, 0, 0, 0, -1},
  },
  x:
  []float64{1, 2, 3, 4, 5},
  ans: []float64{7, 33, 10, 63, -5},
 },
 {
  ul: blas.Lower,
  tA: blas.NoTrans,
  d:  blas.NonUnit,
  n:  5,
  k:  1,
  a: [][]float64{
   {7, 0, 0, 0, 0},
   {3, 6, 0, 0, 0},
   {0, 7, 2, 0, 0},
   {0, 0, 1, 12, 0},
   {0, 0, 0, 3, -1},
  },
  x:   []float64{1, 2, 3, 4, 5},
```

```
 ans: []float64{7, 15, 20, 51, 7},
},
{
 ul: blas.Upper,
 tA: blas.Trans,
 d:  blas.NonUnit,
 n:  5,
 k:  2,
 a: [][]float64{
  {7, 3, 9, 0, 0},
  {0, 6, 7, 10, 0},
  {0, 0, 2, 1, 11},
  {0, 0, 0, 12, 3},
  {0, 0, 0, 0, -1},
 },
 x:   []float64{1, 2, 3, 4, 5},
 ans: []float64{7, 15, 29, 71, 40},
},
{
 ul: blas.Lower,
 tA: blas.Trans,
 d:  blas.NonUnit,
 n:  5,
 k:  2,
 a: [][]float64{
  {7, 0, 0, 0, 0},
  {3, 6, 0, 0, 0},
  {9, 7, 2, 0, 0},
  {0, 10, 1, 12, 0},
  {0, 0, 11, 3, -1},
 },
 x:   []float64{1, 2, 3, 4, 5},
 ans: []float64{40, 73, 65, 63, -5},
},
} {
 extra := 0
 var aFlat []float64
 if
test.ul == blas.Upper {
 aFlat = flattenBanded(test.a, test.k, 0)
 } else {
 aFlat = flattenBanded(test.a, 0, test.k)
 }
 incTest := func(incX, extra int) {
 xnew := makeIncremented(test.x, incX, extra)
 ans := makeIncremented(test.ans, incX, extra)
 lda := test.k + 1
 blasser.Dtbmv(test.ul, test.tA, test.d, test.n, test.k, aFlat, lda, xnew, incX)
```

```
  if !dSliceTolEqual(ans, xnew) {
   t.Errorf("Case %v, Inc %v: Want %v, got %v", i, incX, ans, xnew)
  }
 }
 incTest(1, extra)
 incTest(3, extra)
 incTest(-2, extra)
}
}
graph{{Dig5}Dig5{{Dig5}Dig5}}
graph {no1}
graph{{DG{DG}DG{DG{DG}DG}}}
graph{NOD}
graph{{DIGRC DIGRB}{DIGRC{DIGRB}DIGRC DIGRB}{DIGRC{DIGRB}}}
graph{SU{SU{{SU}SU{{SU}}}}}
graph{SR{{SR{{SR{}SR{}SS}}SR{}SR{}SR{}SS}}SR{}SS}
graph{{{graph_{}graph_}}}
digraph{A{A:ne->F:ne}F:ne}
graph{{sq{sq sq}sq}}
graph{{{grap_{{{{grap_}}}grap_{{grap_}}}grap_{}subg_}}}
graph{{d.650}}
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package testblas

import (
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
)

func DgemvBenchmark(b *testing.B, impl Dgemver, tA blas.Transpose, m, n, incX, incY int) {
 var lenX, lenY int
 if tA == blas.NoTrans {
  lenX = n
  lenY = m
 } else {
  lenX = m
  lenY = n
 }
 xr := make([]float64, lenX)
 for i := range xr {
  xr[i] = rand.Float64()
 }
```

```
 x := makeIncremented(xr, incX, 0)
 yr := make([]float64, lenY)
 for i := range yr {
  yr[i] = rand.Float64()
 }
 y := makeIncremented(yr, incY, 0)
 a := make([]float64, m*n)
 for i := range a {
  a[i] = rand.Float64()
 }

 b.ResetTimer()
 for i := 0; i < b.N; i++ {
  impl.Dgemv(tA, m, n, 2, a, n, x, incX, 3, y, incY)
 }
}

func DgerBenchmark(b *testing.B, impl Dgerer, m, n, incX, incY int) {
 xr := make([]float64, m)
 for i := range xr {
  xr[i] = rand.Float64()
 }
 x
 := makeIncremented(xr, incX, 0)
 yr := make([]float64, n)
 for i := range yr {
  yr[i] = rand.Float64()
 }
 y := makeIncremented(yr, incY, 0)
 a := make([]float64, m*n)
 for i := range a {
  a[i] = rand.Float64()
 }

 b.ResetTimer()
 for i := 0; i < b.N; i++ {
  impl.Dger(m, n, 2, x, incX, y, incY, a, n)
 }
}

type Sgerer interface {
 Sger(m, n int, alpha float32, x []float32, incX int, y []float32, incY int, a []float32, lda int)
}

func SgerBenchmark(b *testing.B, blasser Sgerer, m, n, incX, incY int) {
 xr := make([]float32, m)
 for i := range xr {
  xr[i] = rand.Float32()
```

```
 }
 x := makeIncremented32(xr, incX, 0)
 yr := make([]float32, n)
 for i := range yr {
  yr[i] = rand.Float32()
 }
 y := makeIncremented32(yr, incY, 0)
 a := make([]float32, m*n)
 for i := range a {
  a[i] = rand.Float32()
 }

 b.ResetTimer()
 for i := 0; i < b.N; i++ {
  blasser.Sger(m, n, 2, x, incX, y, incY, a, n)
 }
}
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package c64

func conj(c complex64) complex64 { return complex(real(c), -imag(c)) }
graph{{{digr4}digr7{digr}digr2}digr7{digr}digr2{digr{digr4}}digr2}
graph{ED{ED}ED{ED}ED{ED}}
graph{{DIGR_{DIGR_}}}
graph{{{subG{subG}subG}}}
graph{{{Edga}{Edga}{Edga{Edga}{Edga}{Edga}Edga Edga}}Edga}
// Code generated by gocc; DO NOT EDIT.

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//
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// Universal Public Domain Dedication.

package util

import (
 "fmt"
)

func RuneToString(r rune) string {
```

```
 if r >= 0x20 && r < 0x7f {
  return fmt.Sprintf("'%c'", r)
 }
 switch r {
 case 0x07:
  return "'\\a'"
 case 0x08:
  return "'\\b'"
 case 0x0C:
  return "'\\f'"
 case 0x0A:
  return "'\\n'"
 case 0x0D:
  return "'\\r'"
 case 0x09:
  return "'\\t'"
 case 0x0b:
  return "'\\v'"
 case 0x5c:
  return "'\\\\\\'"
 case 0x27:
  return "'\\''"
 case 0x22:
  return "'\\\"'"
 }
 if r < 0x10000 {
  return fmt.Sprintf("\\u%04x", r)
 }
 return fmt.Sprintf("\\U%08x", r)
}
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// license that can be found in the LICENSE file.

package kdtree

import (
 "sort"

 "golang.org/x/exp/rand"
)

// Partition partitions list such that all elements less than the value at
// pivot prior to the call are placed before that element and all elements
// greater than that value are placed after it. The final location of the
// element at pivot prior to the call is returned.
func Partition(list sort.Interface, pivot int) int {
 var index, last int
```

```
 if last = list.Len() - 1; last < 0 {
  return -1
 }
 list.Swap(pivot, last)
 for i := 0; i < last; i++ {
  if !list.Less(last, i) {
   list.Swap(index, i)
   index++
  }
 }
 list.Swap(last, index)
 return index
}

// SortSlicer satisfies the sort.Interface and is able to slice itself.
type SortSlicer interface {
 sort.Interface
 Slice(start, end int) SortSlicer
}

// Select partitions list such that all elements less than
 the kth element
// are placed before k in the resulting list and all elements greater than
// it are placed after the position k.
func Select(list SortSlicer, k int) int {
 var (
  start int
  end   = list.Len()
 )
 if k >= end {
  if k == 0 {
   return 0
  }
  panic("kdtree: index out of range")
 }
 if start == end-1 {
  return k
 }

 for {
  if start == end {
   panic("kdtree: internal inconsistency")
  }
  sub := list.Slice(start, end)
  pivot := Partition(sub, rand.Intn(sub.Len()))
  switch {
  case pivot == k:
   return k
```

```
  case k < pivot:
   end = pivot + start
  default:
   k -= pivot
   start += pivot
  }
 }
}

func min(a, b int) int {
 if a < b {
  return a
 }
 return b
}

// MedianOfMedians returns the index to the median value of the medians
// of groups of 5 consecutive elements.
func MedianOfMedians(list SortSlicer) int {
 n := list.Len() / 5
 for i := 0; i < n; i++ {
  left := i * 5
  sub := list.Slice(left, min(left+5, list.Len()-1))
  Select(sub, 2)
  list.Swap(i, left+2)
 }
 Select(list.Slice(0,
 min(n, list.Len()-1)), min(list.Len(), n/2))
 return n / 2
}

// MedianOfRandoms returns the index to the median value of up to n randomly
// chosen elements in list.
func MedianOfRandoms(list SortSlicer, n int) int {
 if l := list.Len(); l < n {
  n = l
 } else {
  rand.Shuffle(n, func(i, j int) { list.Swap(i, j) })
 }
 Select(list.Slice(0, n), n/2)
 return n / 2
}
graph{"\"\\\"}
graph{{{{SubGrap_}{SubGrap_}}SubGrap_{{SubGrap_}}}}
graph{DigraG{{DigraG{DigraG}}}}
graph{{SU2}SU2{{SU2}SU2}{SU2}SU0{SU2}}
graph{SubG_}
```

```
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package testlapack

import (
 "math"
 "testing"

 "gonum.org/v1/gonum/floats"
)

type Drscler interface {
 Drscl(n int, a float64, x []float64, incX int)
}

func DrsclTest(t *testing.T, impl Drscler) {
 for _, test := range []struct {
  x []float64
  a float64
 }{
  {
   x: []float64{1, 2, 3, 4, 5},
   a: 4,
  },
  {
   x: []float64{1, 2, 3, 4, 5},
   a: math.MaxFloat64,
  },
  {
   x: []float64{1, 2, 3, 4, 5},
   a: 1e-307,
  },
 } {
  xcopy := make([]float64, len(test.x))
  copy(xcopy, test.x)

  // Cannot test the scaling directly because of floating point scaling issues
  // (the purpose of Drscl). Instead, check that scaling and scaling back
  // yeilds approximately x. If overflow or underflow occurs then the scaling
  // won't match.
  impl.Drscl(len(test.x), test.a, xcopy, 1)
  if floats.Equal(xcopy, test.x) {
   t.Errorf("x
 unchanged during call to drscl. a = %v, x = %v.", test.a, test.x)
  }
  impl.Drscl(len(test.x), 1/test.a, xcopy, 1)
```

```
  if !floats.EqualApprox(xcopy, test.x, 1e-14) {
   t.Errorf("x not equal after scaling and unscaling. a = %v, x = %v.", test.a, test.x)
  }
 }
}
graph{<D></></>}
graph{{GRAPA{GRAPA GRAPG}GRAPG}GRAPG}
graph{{Subg{Subg}{Subg}Subg}}
// SPDX-License-Identifier: Unlicense OR MIT

package material

import (
 "image"
 "image/color"

 "gioui.org/io/pointer"
 "gioui.org/layout"
 "gioui.org/op/paint"
 "gioui.org/text"
 "gioui.org/unit"
 "gioui.org/widget"
)

type checkable struct {
 Label            string
 Color            color.RGBA
 Font             text.Font
 IconColor        color.RGBA
 Size             unit.Value
 shaper           *text.Shaper
 checkedStateIcon   *Icon
 uncheckedStateIcon *Icon
}

func (c *checkable) layout(gtx *layout.Context, checked bool) {

 var icon *Icon
 if checked {
  icon = c.checkedStateIcon
 } else {
  icon = c.uncheckedStateIcon
 }

 hmin := gtx.Constraints.Width.Min
 vmin := gtx.Constraints.Height.Min
 layout.Flex{Alignment: layout.Middle}.Layout(gtx,
  layout.Rigid(func() {
```

```
  layout.Align(layout.Center).Layout(gtx, func() {
   layout.UniformInset(unit.Dp(2)).Layout(gtx, func() {
    size := gtx.Px(c.Size)
    icon.Color = c.IconColor
    icon.Layout(gtx, unit.Px(float32(size)))
    gtx.Dimensions
 = layout.Dimensions{
     Size: image.Point{X: size, Y: size},
    }
   })
  })
 }),

 layout.Rigid(func() {
  gtx.Constraints.Width.Min = hmin
  gtx.Constraints.Height.Min = vmin
  layout.Align(layout.Start).Layout(gtx, func() {
   layout.UniformInset(unit.Dp(2)).Layout(gtx, func() {
    paint.ColorOp{Color: c.Color}.Add(gtx.Ops)
    widget.Label{}.Layout(gtx, c.shaper, c.Font, c.Label)
   })
  })
 }),
)
pointer.Rect(image.Rectangle{Max: gtx.Dimensions.Size}).Add(gtx.Ops)
}
// Derived from SciPy's special/cephes/lanczos.c
// https://github.com/scipy/scipy/blob/master/scipy/special/cephes/lanczos.c

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package cephes

// Optimal values for G for each N are taken from
// http://web.mala.bc.ca/pughg/phdThesis/phdThesis.pdf,
// as are the theoretical error bounds.

// Constants calculated using the method described by Godfrey
// http://my.fit.edu/~gabdo/gamma.txt and elaborated by Toth at
// http://www.rskey.org/gamma.htm using NTL::RR at 1000 bit precision.

var lanczosNum = [...]float64{
 2.506628274631000270164908177133837338626,
 210.82427775157934587250973392071336271 17,
```

```
 8071.672002365816210638002902272250613822,
 186056.265395223495040294989716045699282 2,
 2876370.628935372441225409051620849613599,
 31426415.585400194380614231628318205362 87,
 248874557.862054156511460386413229423216 3,
 1439720407.311721673663223072794912393972,
 6039542586.352028005064291644307297921 07,
 17921034426.037209699919755754458931112 67,
 35711959237.355668049440185451547166705 96,
 42919803642.649098768957899047001988850 93,
 23531376880.410759688572007674451636754 73,
}

var
 lanczosDenom = [...]float64{
 1,
 66,
 1925,
 32670,
 357423,
 2637558,
 13339535,
 45995730,
 105258076,
 150917976,
 120543840,
 39916800,
 0,
}

var lanczosSumExpgScaledNum = [...]float64{
 0.006061842346248906525783753964555936883222,
 0.509841665565667618812517864480469450999 3,
 19.519927882476174828478609662356521362 08,
 449.944556906316811944685860765098840962 3,
 6955.999602515376140356310115515198987526,
 75999.293040145426498753034435989091370 92,
 601859.617168109878667022653369935230250 7,
 3481712.154980645908820710189647745564 68,
 14605578.087685068084141699827913592185 71,
 43338889.324676138347737237405905333160 85,
 86363131.288138591455469272889778684223 42,
 103794043.116344545190627105361607023855 4,
 56906521.913471563880907910335591226868 59,
}

var
```

```
lanczosSumExpgScaledDenom = [...]float64{
 1,
 66,
 1925,
 32670,
 357423,
 2637558,
 13339535,
 45995730,
 105258076,
 150917976,
 120543840,
 39916800,
 0,
}

var lanczosSumNear1D = [...]float64{
 0.33946431718931325351701012922408379277 25e-9,
 -0.24995051514878683356802739093540719383 87e-8,
 0.86909261810380570395261274220024989601 72e-8,
 -0.19331178988808283486925413948412042880 47e-7,
 0.30755801747913484927379473400399928295 46e-7,
 -0.27529077029031264660042073450383278187 13e-7,
 -0.15159730198710923889434376238252080951 23e-5,
 0.00478520061008507147388091585420430188 6437,
 -0.19937589276147287573142330262578101720 08,
 1.48308286236725375304044293377016411167 8,
 -3.32715058065162423355367711392887303491 6,
 2.20870997931662379086256992486184143301 6,
}

var lanczosSumNear2D = [...]float64{
 0.10091415669875698922214399182300423681 12e-8,
 -0.74303967089987197076427355772384495858 22e-8,
 0.25835925665244392308443789487042622919 27e-7,
 -0.57466706421470415874971596493184543481 17e-7,
 0.91429220681653241320605505912102679920 72e-7,
 -0.81836984107243589308237379821194741300 69e-7,
 -0.45066044097071700771365550100185498191 92e-5,
 0.01422519127192419234315002746252160965 831,
 -0.59269410849050617944457336288910240279 49,
 4.40883028912594337792307772790063092790 2,
 -9.89077726449206705892880816401281942 31,
 6.56593620208288953552845595548587736122 3,
}

const
```

```
 lanczosG = 6.024680040776729583740234375

func lanczosSum(x float64) float64 {
 return ratevl(x,
  lanczosNum[:],
  len(lanczosNum)-1,
  lanczosDenom[:],
  len(lanczosDenom)-1)
}

func lanczosSumExpgScaled(x float64) float64 {
 return ratevl(x,
  lanczosSumExpgScaledNum[:],
  len(lanczosSumExpgScaledNum)-1,
  lanczosSumExpgScaledDenom[:],
  len(lanczosSumExpgScaledDenom)-1)
}

func lanczosSumNear1(dx float64) float64 {
 var result float64

 for i, val := range lanczosSumNear1D {
  k := float64(i + 1)
  result +=
 (-val * dx) / (k*dx + k*k)
 }

 return result
}

func lanczosSumNear2(dx float64) float64 {
 var result float64
 x := dx + 2

 for i, val := range lanczosSumNear2D {
  k := float64(i + 1)
  result += (-val * dx) / (x + k*x + k*k - 1)
 }

 return result
}
graph{{subgrap_}}
graph{{{{{{{{{n}}n}}}}}}}
graph{{{ED8}}ED8{ED8}}
graph{NOZ{NOZ}}
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```

```
// Package sampleuv implements advanced sampling routines from explicit and implicit
// probability distributions.
//
// Each sampling routine is implemented as a stateless function with a
// complementary wrapper type. The wrapper types allow the sampling routines
// to implement interfaces.
package sampleuv // import "gonum.org/v1/gonum/stat/sampleuv"
// Code generated by "go generate gonum.org/v1/gonum/unit/constant; DO NOT EDIT.

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package constant

import (
 "fmt"

 "gonum.org/v1/gonum/unit"
)

// Faraday is the Faraday constant, the magnitude of electric charge per mole of electrons.
// The dimensions of Faraday are A s mol^-1. The constant is exact.
const Faraday = faradayUnits(96485.33212)

type faradayUnits float64

// Unit converts the faradayUnits to a *unit.Unit
func (cnst faradayUnits) Unit() *unit.Unit {
 return unit.New(float64(cnst), unit.Dimensions{
  unit.CurrentDim: 1,
  unit.TimeDim:    1,
  unit.MoleDim:    -1,
 })
}

func (cnst faradayUnits) Format(fs fmt.State, c rune) {
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", cnst, float64(cnst))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w,
```

```
 wOk := fs.Width()
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), w, p, cnst.Unit())
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, cnst.Unit())
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), w, cnst.Unit())
  default:
   fmt.Fprintf(fs, "%"+string(c), cnst.Unit())
  }
 default:
  fmt.Fprintf(fs, "%%!"+string(c)+"(constant.faradayUnits=%v A s mol^-1)", float64(cnst))
 }
}
```

graph{Edgh{Edgh{Edgr}{Edgr}}Edgh}
graph{{DIGRA}}
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graph{{dn do}}

```
graph{{{graph_{}graph_{}graph_{{graph_{}graph_}}}}graph_}
graph{ED_}
graph{{{subgrap{subgrap}subgrap}}subgrap}
graph{GRAP{GRAP}}
graph{K185582076609134620766091346740222656257910156274077265625791015625}
graph{{{{{DI}}}}}
graph{{Nodr}Nodr}
graph{-.5{-.5{-.5}-.5{-.5{-.5{-.5}-.5-.5}}}}
graph{Di{Di{{{Di}Di}}Di}}
graph{Stm Stm Stm Stm Stm Stm Stm Stm Stm}
Graph{{Ed_{Ed_{Ed_}}Ed_{Ed_{Ed_{Ed_}}}}}{Ed_{Ed_{Ed_{Ed_}}}}}
graph{{{{DiGrag}DiGrag}DiGrag{DiGrag}DiGrag}{DiGrag}}
graph{<R><T><R><T>}
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package layout

import (
 "fmt"
 "image/color"
 "math"

 "gonum.org/v1/plot"
 "gonum.org/v1/plot/plotter"
 "gonum.org/v1/plot/vg"
 "gonum.org/v1/plot/vg/draw"
)

const radius = vg.Length(15)

// render implements the plot.Plotter interface for graphs.
type render struct {
 GraphR2
}

func (p render) Plot(c draw.Canvas, plt *plot.Plot) {
 nodes := p.GraphR2.Nodes()
 if nodes.Len() == 0 {
  return
 }
 xys := make(plotter.XYs, 0, nodes.Len())
 ids := make([]string, 0, nodes.Len())
 for nodes.Next() {
  u := nodes.Node()
  uid := u.ID()
  ur2 := p.GraphR2.LayoutNodeR2(uid)
```

```
 xys = append(xys, plotter.XY(ur2.Coord2))
 ids = append(ids, fmt.Sprint(uid))
 to := p.GraphR2.From(uid)
 for to.Next() {
  v := to.Node()
  vid := v.ID()
  vr2 := p.GraphR2.LayoutNodeR2(vid)

  l, err := plotter.NewLine(plotter.XYs{plotter.XY(ur2.Coord2),
plotter.XY(vr2.Coord2)})
  if err != nil {
   panic(err)
  }
  l.Plot(c, plt)
  if err != nil {
   panic(err)
  }
 }
}

n, err := plotter.NewScatter(xys)
if err != nil {
 panic(err)
}
n.GlyphStyle.Shape = nodeGlyph{}
n.GlyphStyle.Radius = radius
n.Plot(c, plt)

l, err := plotter.NewLabels(plotter.XYLabels{XYs: xys, Labels: ids})
if err != nil {
 panic(err)
}
fnt, err := vg.MakeFont(plot.DefaultFont, vg.Points(18))
if err != nil {
 panic(err)
}
for i := range l.TextStyle {
 l.TextStyle[i] = draw.TextStyle{Font: fnt, XAlign: draw.XCenter, YAlign: -0.33}
}

l.Plot(c, plt)
}

// DataRange returns the minimum and maximum X and Y values
func (p render) DataRange() (xmin, xmax, ymin, ymax float64) {
 nodes := p.GraphR2.Nodes()
 if nodes.Len() == 0 {
  return
```

```
 }
 xys := make(plotter.XYs, 0, nodes.Len())
 for nodes.Next() {
  u := nodes.Node()
  uid := u.ID()
  ur2 := p.GraphR2.LayoutNodeR2(uid)
  xys = append(xys, plotter.XY(ur2.Coord2))
 }
 return plotter.XYRange(xys)
}

//
 GlyphBoxes returns a slice of plot.GlyphBoxes, implementing the
// plot.GlyphBoxer interface.
func (p render) GlyphBoxes(plt *plot.Plot) []plot.GlyphBox {
 nodes := p.GraphR2.Nodes()
 if nodes.Len() == 0 {
  return nil
 }
 b := make([]plot.GlyphBox, nodes.Len())
 for i := 0; nodes.Next(); i++ {
  u := nodes.Node()
  uid := u.ID()
  ur2 := p.GraphR2.LayoutNodeR2(uid)

  b[i].X = plt.X.Norm(ur2.Coord2.X)
  b[i].Y = plt.Y.Norm(ur2.Coord2.Y)
  r := radius
  b[i].Rectangle = vg.Rectangle{
   Min: vg.Point{X: -r, Y: -r},
   Max: vg.Point{X: +r, Y: +r},
  }
 }
 return b
}

// nodeGlyph is a glyph that draws a filled circle.
type nodeGlyph struct{}

// DrawGlyph implements the GlyphDrawer interface.
func (nodeGlyph) DrawGlyph(c *draw.Canvas, sty draw.GlyphStyle, pt vg.Point) {
 var p vg.Path
 c.Push()
 c.SetColor(color.White)
 p.Move(vg.Point{X: pt.X + sty.Radius, Y: pt.Y})
 p.Arc(pt, sty.Radius, 0, 2*math.Pi)
 p.Close()
 c.Fill(p)
```

```
 c.Pop()
 c.Stroke(p)
}
graph{<<34694469519536141888238489627838134765625>>}
graph{{NODd}NODd{NODd}{NODd}NODd}
graph{{SUBGRA0}}
// Code generated by "go generate gonum.org/v1/gonum/unit/constant; DO NOT EDIT.

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package constant

import (
 "fmt"
 "testing"
)

func TestFaradayFormat(t *testing.T) {
 for _, test := range []struct {
  format string
  want   string
 }{
  {"%v", "96485.33212 A s mol^-1"},
  {"%.1v", "1e+05 A s mol^-1"},
  {"%50.1v", "                          1e+05 A s mol^-1"},
  {"%50v", "                     96485.33212 A s mol^-1"},
  {"%1v", "96485.33212 A s mol^-1"},
  {"%#v", "constant.faradayUnits(96485.33212)"},
  {"%s", "%!s(constant.faradayUnits=96485.33212 A s mol^-1)"},
 } {
  got := fmt.Sprintf(test.format, Faraday)
  if got != test.want {
   t.Errorf("Format %q: got: %q want: %q", test.format, got, test.want)
  }
 }
}
graph{{{DIG}DIG}}
graph{{{DiV{{DiW}{DiW}{DiW}{DiW}}}DiV{{DiW}}}}
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// Package kdtree implements a k-d tree.
//
// See https://en.wikipedia.org/wiki/K-d_tree for more details of k-d tree functionality.
package kdtree // import "gonum.org/v1/gonum/spatial/kdtree"
```

```
Graph{{Subgr4}{Subgr4{Subgr4}}}
// Code generated by "go generate gonum.org/v1/gonum/unit/constant; DO NOT EDIT.

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package constant

import (
 "fmt"
 "testing"
)

func TestGravitationalFormat(t *testing.T) {
 for _, test := range []struct {
  format string
  want   string
 }{
  {"%v", "6.6743e-11 m^3 kg^-1 s^-2"},
  {"%.1v", "7e-11 m^3 kg^-1 s^-2"},
  {"%50.1v", "                          7e-11 m^3 kg^-1 s^-2"},
  {"%50v", "                      6.6743e-11 m^3 kg^-1 s^-2"},
  {"%1v", "6.6743e-11 m^3 kg^-1 s^-2"},
  {"%#v", "constant.gravitationalUnits(6.6743e-11)"},
  {"%s", "%!s(constant.gravitationalUnits=6.6743e-11 m^3 kg^-1 s^-2)"},
 } {
  got := fmt.Sprintf(test.format, Gravitational)
  if got != test.want {
   t.Errorf("Format %q: got: %q want: %q", test.format, got, test.want)
  }
 }
}
graph{-.5{-.5{-.5}-.5{-.5{-.5{-.5}-.5}}}}
graph{{noU}noO{noU{noU}}}
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package topo

import (
 "gonum.org/v1/gonum/graph"
 "gonum.org/v1/gonum/graph/traverse"
)

// IsPathIn returns whether path is a path in g.
//
```

```
// As special cases, IsPathIn returns true for a zero length path or for
// a path of length 1 when the node in path exists in the graph.
func IsPathIn(g graph.Graph, path []graph.Node) bool {
 switch len(path) {
 case 0:
  return true
 case 1:
  return g.Node(path[0].ID()) != nil
 default:
  var canReach func(uid, vid int64) bool
  switch g := g.(type) {
  case graph.Directed:
   canReach = g.HasEdgeFromTo
  default:
   canReach = g.HasEdgeBetween
  }

  for i, u := range path[:len(path)-1] {
   if !canReach(u.ID(), path[i+1].ID()) {
    return false
   }
  }
  return true
 }
}

// PathExistsIn returns whether there is a path in g starting at from extending
// to to.
//
// PathExistsIn
 exists as a helper function. If many tests for path existence
// are being performed, other approaches will be more efficient.
func PathExistsIn(g graph.Graph, from, to graph.Node) bool {
 var t traverse.BreadthFirst
 return t.Walk(g, from, func(n graph.Node, _ int) bool { return n.ID() == to.ID() }) != nil
}

// ConnectedComponents returns the connected components of the undirected graph g.
func ConnectedComponents(g graph.Undirected) [][]graph.Node {
 var (
  w  traverse.DepthFirst
  c  []graph.Node
  cc [][]graph.Node
 )
 during := func(n graph.Node) {
  c = append(c, n)
 }
 after := func() {
```

```
  cc = append(cc, []graph.Node(nil))
  cc[len(cc)-1] = append(cc[len(cc)-1], c...)
  c = c[:0]
 }
 w.WalkAll(g, nil, after, during)

 return cc
}
graph{GraA{{GraB}GraB}}
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package layout

import (
 "path/filepath"
 "testing"

 "gonum.org/v1/gonum/graph"
 "gonum.org/v1/gonum/graph/simple"
 "gonum.org/v1/gonum/spatial/r2"
 "gonum.org/v1/plot"
 "gonum.org/v1/plot/vg"
)

// tag is modified in isomap_noasm_test.go to "_noasm" when any
// build tag prevents use of the assembly numerical kernels.
var tag string

var isomapR2Tests = []struct {
 name string
 g    graph.Graph
}{
 {
  name: "line_isomap",
  g: func() graph.Graph {
   edges := []simple.Edge{
    {simple.Node(0), simple.Node(1)},
   }
   g := simple.NewUndirectedGraph()
   for _, e := range edges {
    g.SetEdge(e)
   }
   return orderedGraph{g}
  }(),
 },
 {
```

```
 name: "square_isomap",
 g: func() graph.Graph {
  edges := []simple.Edge{
   {simple.Node(0), simple.Node(1)},
   {simple.Node(0), simple.Node(2)},
   {simple.Node(1), simple.Node(3)},
   {simple.Node(2),
simple.Node(3)},
  }
  g := simple.NewUndirectedGraph()
  for _, e := range edges {
   g.SetEdge(e)
  }
  return orderedGraph{g}
 }(),
},
{
 name: "tetrahedron_isomap",
 g: func() graph.Graph {
  edges := []simple.Edge{
   {simple.Node(0), simple.Node(1)},
   {simple.Node(0), simple.Node(2)},
   {simple.Node(0), simple.Node(3)},
   {simple.Node(1), simple.Node(2)},
   {simple.Node(1), simple.Node(3)},
   {simple.Node(2), simple.Node(3)},
  }
  g := simple.NewUndirectedGraph()
  for _, e := range edges {
   g.SetEdge(e)
  }
  return orderedGraph{g}
 }(),
},
{
 name: "sheet_isomap",
 g: func() graph.Graph {
  edges := []simple.Edge{
   {simple.Node(0), simple.Node(1)},
   {simple.Node(0), simple.Node(3)},
   {simple.Node(1), simple.Node(2)},
   {simple.Node(1), simple.Node(4)},
   {simple.Node(2), simple.Node(5)},
   {simple.Node(3), simple.Node(4)},
   {simple.Node(3), simple.Node(6)},
   {simple.Node(4), simple.Node(5)},
   {simple.Node(4),
```

```
simple.Node(7)},
   {simple.Node(5), simple.Node(8)},
   {simple.Node(6), simple.Node(7)},
   {simple.Node(7), simple.Node(8)},
  }
  g := simple.NewUndirectedGraph()
  for _, e := range edges {
   g.SetEdge(e)
  }
  return orderedGraph{g}
 }(),
},
{
 name: "tube_isomap",
 g: func() graph.Graph {
  edges := []simple.Edge{
   {simple.Node(0), simple.Node(1)},
   {simple.Node(0), simple.Node(2)},
   {simple.Node(0), simple.Node(3)},
   {simple.Node(1), simple.Node(2)},
   {simple.Node(1), simple.Node(4)},
   {simple.Node(2), simple.Node(5)},
   {simple.Node(3), simple.Node(4)},
   {simple.Node(3), simple.Node(5)},
   {simple.Node(3), simple.Node(6)},
   {simple.Node(4), simple.Node(5)},
   {simple.Node(4), simple.Node(7)},
   {simple.Node(5), simple.Node(8)},
   {simple.Node(6), simple.Node(7)},
   {simple.Node(6), simple.Node(8)},
   {simple.Node(7), simple.Node(8)},
  }
  g := simple.NewUndirectedGraph()
  for _, e := range edges {
   g.SetEdge(e)
  }
  return
orderedGraph{g}
 }(),
},
{
 name: "wp_page_isomap", // https://en.wikipedia.org/wiki/PageRank#/media/File:PageRanks-Example.jpg
 g: func() graph.Graph {
  edges := []simple.Edge{
   {simple.Node(0), simple.Node(3)},
   {simple.Node(1), simple.Node(2)},
   {simple.Node(1), simple.Node(3)},
   {simple.Node(1), simple.Node(4)},
```

```
    {simple.Node(1), simple.Node(5)},
    {simple.Node(1), simple.Node(6)},
    {simple.Node(1), simple.Node(7)},
    {simple.Node(1), simple.Node(8)},
    {simple.Node(3), simple.Node(4)},
    {simple.Node(4), simple.Node(5)},
    {simple.Node(4), simple.Node(6)},
    {simple.Node(4), simple.Node(7)},
    {simple.Node(4), simple.Node(8)},
    {simple.Node(4), simple.Node(9)},
    {simple.Node(4), simple.Node(10)},
   }
   g := simple.NewUndirectedGraph()
   for _, e := range edges {
    g.SetEdge(e)
   }
   return orderedGraph{g}
  }(),
 },
}

func TestIsomapR2(t *testing.T) {
 for _, test := range isomapR2Tests {
  o :=
 NewOptimizerR2(test.g, IsomapR2{}.Update)
  var n int
  for o.Update() {
   n++
  }
  p, err := plot.New()
  if err != nil {
   t.Errorf("unexpected error: %v", err)
   continue
  }
  p.Add(render{o})
  p.HideAxes()
  path := filepath.Join("testdata", test.name+tag+".png")
  err = p.Save(10*vg.Centimeter, 10*vg.Centimeter, path)
  if err != nil {
   t.Errorf("unexpected error: %v", err)
   continue
  }
  ok := checkRenderedLayout(t, path)
  if !ok {
   got := make(map[int64]r2.Vec)
   nodes := test.g.Nodes()
   for nodes.Next() {
    id := nodes.Node().ID()
```

```
    got[id] = o.Coord2(id)
   }
   t.Logf("got node positions: %#v", got)
  }
 }
}
graph{{Digr0}{Digr0{Digr0}Digr0{Digr0}}}
graph{{sub1{sub1}sub8{sub1{}sub8}sub8}}
graph{{{{{ctric}Muyvykattrtmtomponentttrist<<
>>Mpa{}{wyxial{Fdxmdqledojkkimux{}}}{}}{{}}}}{{{{Mbdpw{Otrictric{}}}}{{}}}}}
Graph{{{subgrax}subgrax}}
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package topo_test

import (
 "bufio"
 "fmt"
 "io"
 "log"
 "sort"
 "strings"

 "gonum.org/v1/gonum/graph/simple"
 "gonum.org/v1/gonum/graph/topo"
)

var systems = []string{
 // Unsatisfiable system.
 `_a  _b
_b  _f
_h  _i
_a  _b
_k  _c
_f  _h
_c  _g
_f  _g
_h  _l
_h  _i
_i  _b
_i  _h
_i  _c
_l  _d
_j  _i
_a  _j
_a  _b
```

```
_d  _e
_k  _h
_l  _d
_l  _d
_l  _f
_b  _d
_b  _g
_d  _l
_l  _k
`,
 // Satisfiable system.
 `_a  _b
_b  _f
_h  _i
_a  _b
_k  _c
_f  _h
_c  _g
_f  _g
_h  _l
_h  _i
_i  _b
_i  _e
_i  _c
_g  _a
_l  _f
_j  _i
_a  _j
_a  _b
_d  _e
_k  _a
_k  _h
_l  _d
_l  _e
_l  _f
_b  _d
_b  _g
_d  _l
_l  _e
`,

 `fun  fun
fun  Gonum
Gonum  Gonum
`,
}

// twoSat returns whether the system described in the data read from r is
```

```
// satisfiable and a set of states that satisfies the system.
// The syntax used by twoSat is "  " where  and  may
 be negated by
// leading "" characters. twoSat uses the implication graph approach to
// system analysis.
func twoSat(r io.Reader) (state map[string]bool, ok bool) {
 g := simple.NewDirectedGraph()

 sc := bufio.NewScanner(r)
 nodes := make(map[string]node)
 for count := 1; sc.Scan(); count++ {
  line := sc.Text()
  fields := strings.Split(line, "")
  if len(fields) != 2 {
   log.Fatalf("failed to parse on line %d %q: invalid syntax", count, line)
  }
  var variables [2]node
  for i, f := range fields {
   f = strings.TrimSpace(f)
   var negate bool
   for strings.Index(f, "") == 0 {
    f = strings.TrimPrefix(f, "")
    negate = !negate
   }
   n, ok := nodes[f]
   if !ok {
    n = node{
     id:   int64(len(nodes) + 1), // id must not be zero.
     name: f,
    }
    nodes[f] = n
   }
   if negate {
    n = n.negated()
   }
   variables[i] = n
  }

  // Check for tautology.
  if variables[0].negated().ID() == variables[1].ID() {
   for _, v := range variables {
    if g.Node(v.ID())
 == nil {
     g.AddNode(v)
    }
   }
   continue
  }
```

```
  // Add implications to the graph.
  g.SetEdge(simple.Edge{F: variables[0].negated(), T: variables[1]})
  g.SetEdge(simple.Edge{F: variables[1].negated(), T: variables[0]})
 }

 // Find implication inconsistencies.
 sccs := topo.TarjanSCC(g)
 for _, c := range sccs {
  set := make(map[int64]struct{})
  for _, n := range c {
   id := n.ID()
   if _, ok := set[-id]; ok {
    return nil, false
   }
   set[id] = struct{}{}
  }
 }

 // Assign states.
 state = make(map[string]bool)
unknown:
 for _, c := range sccs {
  for _, n := range c {
   if _, known := state[n.(node).name]; known {
    continue unknown
   }
  }
  for _, n := range c {
   n := n.(node)
   state[n.name] = n.id > 0
  }
 }

 return state, true
}

type node struct {
 id   int64
 name string
}

func (n node) ID() int64     { return n.id }
func (n node) negated() node { return node{-n.id, n.name} }

func ExampleTarjanSCC_2sat() {
 for i, s := range systems {
  state, ok
```

```
 := twoSat(strings.NewReader(s))
  if !ok {
   fmt.Printf("system %d is not satisfiable\n", i)
   continue
  }
  var ps []string
  for v, t := range state {
   ps = append(ps, fmt.Sprintf("%s:%t", v, t))
  }
  sort.Strings(ps)
  fmt.Printf("system %d is satisfiable: %s\n", i, strings.Join(ps, " "))
 }

 // Output:
 // system 0 is not satisfiable
 // system 1 is satisfiable: _a:true _b:true _c:true _d:true _e:true _f:true _g:false _h:true _i:true _j:false _k:true _l:true
 // system 2 is satisfiable: Gonum:true fun:true
}
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// Package lexer provides generated internal lexer functions for DOT parsing.
package lexer // import "gonum.org/v1/gonum/graph/formats/dot/internal/lexer"
graph{{DiGa{{DiGg}}}}
graph{{{{subgb{{subgb{{subgb{}subgf}}}}}}}}
graph{{{DiGr2{{DiGr2}DiGr1}DiGr1}DiGr1}DiGr1}
graph{{{{SUBGRAPe{{{SUBGRAPk}}SUBGRAPk}}}{{{{{SUBGRAPk}}SUBGRAPk}}{SUBGRAPe{{{SUB
GRAPk}}SUBGRAPk}}{}{SUBGRAPe{{{SUBGRAPk}}SUBGRAPk}}{SUBGRAPe{{}SUBGRAPk}}{SUBG
RAPe{{{}}SUBGRAPk}}}{{SUBGRAPe{{{}}}}}{}}}
graph{{NO{{NO{}NO{NO{}NO}}}NO}}
// This file is dual licensed under CC0 and The gonum license.
//
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// license that can be found in the LICENSE file.
//
// Copyright 2017 Robin Eklind.
// This file is made available under a Creative Commons CC0 1.0
// Universal Public Domain Dedication.

package dot

import (
 "fmt"

 "gonum.org/v1/gonum/graph/formats/dot/ast"
)
```

```
// check validates the semantics of the given DOT file.
func check(file *ast.File) error {
 for _, graph := range file.Graphs {
  // TODO: Check graph.ID for duplicates?
  if err := checkGraph(graph); err != nil {
   return err
  }
 }
 return nil
}

// check validates the semantics of the given graph.
func checkGraph(graph *ast.Graph) error {
 for _, stmt := range graph.Stmts {
  if err := checkStmt(graph, stmt); err != nil {
   return err
  }
 }
 return nil
}

// check validates the semantics of the given statement.
func checkStmt(graph *ast.Graph, stmt
 ast.Stmt) error {
 switch stmt := stmt.(type) {
 case *ast.NodeStmt:
  return checkNodeStmt(graph, stmt)
 case *ast.EdgeStmt:
  return checkEdgeStmt(graph, stmt)
 case *ast.AttrStmt:
  return checkAttrStmt(graph, stmt)
 case *ast.Attr:
  // TODO: Verify that the attribute is indeed of graph component kind.
  return checkAttr(graph, ast.GraphKind, stmt)
 case *ast.Subgraph:
  return checkSubgraph(graph, stmt)
 default:
  panic(fmt.Sprintf("support for statement of type %T not yet implemented", stmt))
 }
}

// checkNodeStmt validates the semantics of the given node statement.
func checkNodeStmt(graph *ast.Graph, stmt *ast.NodeStmt) error {
 if err := checkNode(graph, stmt.Node); err != nil {
  return err
 }
 for _, attr := range stmt.Attrs {
```

```
  // TODO: Verify that the attribute is indeed of node component kind.
  if err := checkAttr(graph, ast.NodeKind, attr); err != nil {
   return err
  }
 }
 return nil
}

// checkEdgeStmt validates the semantics of the given edge statement.
func checkEdgeStmt(graph
 *ast.Graph, stmt *ast.EdgeStmt) error {
 // TODO: if graph.Strict, check for multi-edges.
 if err := checkVertex(graph, stmt.From); err != nil {
  return err
 }
 for _, attr := range stmt.Attrs {
  // TODO: Verify that the attribute is indeed of edge component kind.
  if err := checkAttr(graph, ast.EdgeKind, attr); err != nil {
   return err
  }
 }
 return checkEdge(graph, stmt.From, stmt.To)
}

// checkEdge validates the semantics of the given edge.
func checkEdge(graph *ast.Graph, from ast.Vertex, to *ast.Edge) error {
 if !graph.Directed && to.Directed {
  return fmt.Errorf("undirected graph %q contains directed edge from %q to %q", graph.ID, from, to.Vertex)
 }
 if err := checkVertex(graph, to.Vertex); err != nil {
  return err
 }
 if to.To != nil {
  return checkEdge(graph, to.Vertex, to.To)
 }
 return nil
}

// checkAttrStmt validates the semantics of the given attribute statement.
func checkAttrStmt(graph *ast.Graph, stmt *ast.AttrStmt) error {
 for _, attr :=
 range stmt.Attrs {
  if err := checkAttr(graph, stmt.Kind, attr); err != nil {
   return err
  }
 }
 return nil
}
```

```
// checkAttr validates the semantics of the given attribute for the given
// component kind.
func checkAttr(graph *ast.Graph, kind ast.Kind, attr *ast.Attr) error {
 switch kind {
 case ast.GraphKind:
  // TODO: Validate key-value pairs for graphs.
  return nil
 case ast.NodeKind:
  // TODO: Validate key-value pairs for nodes.
  return nil
 case ast.EdgeKind:
  // TODO: Validate key-value pairs for edges.
  return nil
 default:
  panic(fmt.Sprintf("support for component kind %v not yet supported", kind))
 }
}

// checkSubgraph validates the semantics of the given subgraph.
func checkSubgraph(graph *ast.Graph, subgraph *ast.Subgraph) error {
 // TODO: Check subgraph.ID for duplicates?
 for _, stmt := range subgraph.Stmts {
  // TODO: Refine handling of subgraph statements?
  //    checkSubgraphStmt(graph, subgraph, stmt)
  if err := checkStmt(graph, stmt); err != nil {
   return
 err
  }
 }
 return nil
}

// checkVertex validates the semantics of the given vertex.
func checkVertex(graph *ast.Graph, vertex ast.Vertex) error {
 switch vertex := vertex.(type) {
 case *ast.Node:
  return checkNode(graph, vertex)
 case *ast.Subgraph:
  return checkSubgraph(graph, vertex)
 default:
  panic(fmt.Sprintf("support for vertex of type %T not yet supported", vertex))
 }
}

// checNode validates the semantics of the given node.
func checkNode(graph *ast.Graph, node *ast.Node) error {
 // TODO: Check node.ID for duplicates?
```

```
 // TODO: Validate node.Port.
 return nil
}
graph{stria{stria}}
Graph{{subgrap4}}
/** * * * * * * */graph""{e[e=""l=""e=""h=""t=""r=""][r=""]/**/""--""--""--""--""--""[r=""n=6]""--""[r=""t=""]""--
""[r=""t=""]""--""[r=""t=""]""--""[r=""t=""]""--""[r=""t=""]""--""--""--""--""--""}
graph{sub{{{sub}sub}}}
graph{Edgh{Edgh{Edgr}}Edgh}
graph{{{gr}gr}gr}
graph{{GG GB GP}GB GP}
graph{St5{St1}}
Graph{Subgra_{{Subgra_{Subgra_}}Subgra_}}
graph{Nod0}
graph{edg{edg}edg}
graph{Di}
graph{di di{di }}
digraph{A:ne->F:ne}
graph{{{{{{subGrc}{subGrn}}}}{{{subGrc}{subGrc}{subGrn}}}}{{}}{{{{subGrc}{subGrc}{subGrn}}{{}{}{}{
subGrn}}}}}
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// license that can be found in the LICENSE file.

package testlapack

import (
 "fmt"
 "math"
 "testing"

 "golang.org/x/exp/rand"
 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/floats"
 "gonum.org/v1/gonum/lapack"
)

type Dpbconer interface {
 Dpbcon(uplo blas.Uplo, n, kd int, ab []float64, ldab int, anorm float64, work []float64, iwork []int) float64

 Dpbtrser
 Dlanger
 Dlansber
}

// DpbconTest tests Dpbcon by generating a random symmetric band matrix A and
// checking that the estimated condition number is not too different from the
// condition number computed via the explicit inverse of A.
```

```
func DpbconTest(t *testing.T, impl Dpbconer) {
 rnd := rand.New(rand.NewSource(1))
 for _, n := range []int{0, 1, 2, 3, 4, 5, 10, 50} {
  for _, kd := range []int{0, (n + 1) / 4, (3*n - 1) / 4, (5*n + 1) / 4} {
   for _, uplo := range []blas.Uplo{blas.Upper, blas.Lower} {
    for _,
 ldab := range []int{kd + 1, kd + 1 + 3} {
     dpbconTest(t, impl, uplo, n, kd, ldab, rnd)
    }
   }
  }
 }
}

func dpbconTest(t *testing.T, impl Dpbconer, uplo blas.Uplo, n, kd, ldab int, rnd *rand.Rand) {
 const ratioThresh = 10

 name := fmt.Sprintf("uplo=%v,n=%v,kd=%v,ldab=%v", string(uplo), n, kd, ldab)

 // Generate a random symmetric positive definite band matrix.
 ab := randSymBand(uplo, n, kd, ldab, rnd)

 // Compute the Cholesky decomposition of A.
 abFac := make([]float64, len(ab))
 copy(abFac, ab)
 ok := impl.Dpbtrf(uplo, n, kd, abFac, ldab)
 if !ok {
  t.Fatalf("%v: bad test matrix, Dpbtrf failed", name)
 }

 // Compute the norm of A.
 work := make([]float64, 3*n)
 aNorm := impl.Dlansb(lapack.MaxColumnSum, uplo, n, kd, ab, ldab, work)

 // Compute an estimate of rCond.
 iwork := make([]int, n)
 abFacCopy := make([]float64, len(abFac))
 copy(abFacCopy, abFac)
 rCondGot := impl.Dpbcon(uplo, n, kd, abFac, ldab, aNorm, work, iwork)

 if !floats.Equal(abFac, abFacCopy) {
  t.Errorf("%v:
 unexpected modification of ab", name)
 }

 // Form the inverse of A to compute a good estimate of the condition number
 //  rCondWant := 1/(norm(A) * norm(inv(A)))
 lda := max(1, n)
```

```
 aInv := make([]float64, n*lda)
 for i := 0; i < n; i++ {
  aInv[i*lda+i] = 1
 }
 impl.Dpbtrs(uplo, n, kd, n, abFac, ldab, aInv, lda)
 aInvNorm := impl.Dlange(lapack.MaxColumnSum, n, n, aInv, lda, work)
 rCondWant := 1.0
 if aNorm > 0 && aInvNorm > 0 {
  rCondWant = 1 / aNorm / aInvNorm
 }

 ratio := rCondTestRatio(rCondGot, rCondWant)
 if ratio >= ratioThresh {
  t.Errorf("%v: unexpected value of rcond. got=%v, want=%v (ratio=%v)", name, rCondGot, rCondWant, ratio)
 }
}

// rCondTestRatio returns a test ratio to compare two values of the reciprocal
// of the condition number.
//
// This function corresponds to DGET06 in Reference LAPACK.
func rCondTestRatio(rcond, rcondc float64) float64 {
 const eps = dlamchE
 switch {
 case rcond > 0 && rcondc > 0:
  return math.Max(rcond, rcondc)/math.Min(rcond,
 rcondc) - (1 - eps)
 case rcond > 0:
  return rcond / eps
 case rcondc > 0:
  return rcondc / eps
 default:
  return 0
 }
}
digraph {
 A ~ B
}
graph{SUBGp{{{SUBGp{SUBGp{{SUBGp{SUBGp}}}}}}{SUBGp{{SUBGp{SUBGh{{SUBGp}}}}}}}}
graph{{{{}{}{}{}{}{}{}{}{}{}{}{}{}{}{}{}{}}}{}}
graph{<[y=d][c=n][c=n][c=n][c=b][c=b][c=n]s[c=r][c=n][c=b][c=b][c=b][c=n][c=n][c=n][c=n][c=n][c=b][c=n][s=n
][c=n][c=r][c=n][c=n][c=n]s[c=n][c=n][c=n]e->[r=e]}
Graph{{{EDGG}}}
graph{{{{StriG}{StriG}{StriG}{StriG}{}{StriG}{StriG}{StriG}{StriG}{StriG}}}StriC}
graph{{di}}
graph{Subgrap5}
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```

```
// license that can be found in the LICENSE file.

// Package amos implements functions originally in the Netlib code by Donald Amos.
package amos // import "gonum.org/v1/gonum/mathext/internal/amos"
graph{{{gr}{gr}}gr{{gr}{gr}{gr}{gr}{gr}{}{gr}{gr}}gr{{gr}{gr}{gr}{gr}{gr}{gr}{gr}gr}}
graph{NO_}
// SPDX-License-Identifier: Unlicense OR MIT

/*
Package key implements key and text events and operations.

The InputOp operations is used for declaring key input handlers. Use
an implementation of the Queue interface from package ui to receive
events.
*/
package key

import (
 "strings"

 "gioui.org/internal/opconst"
 "gioui.org/io/event"
 "gioui.org/op"
)

// InputOp declares a handler ready for key events.
// Key events are in general only delivered to the
// focused key handler. Set the Focus flag to request
// the focus.
type InputOp struct {
 Key   event.Key
 Focus bool
}

// HideInputOp request that any on screen text input
// be hidden.
type HideInputOp struct{}

// A FocusEvent is generated when a handler gains or loses
// focus.
type FocusEvent struct {
 Focus bool
}

// An Event is generated when a key is pressed. For text input
// use EditEvent.
type Event struct {
 // Name of the key. For letters, the upper case form is used, via
```

```
 // unicode.ToUpper. The shift modifier is
 taken into account, all other
 // modifiers are ignored. For example, the "shift-1" and "ctrl-shift-1"
 // combinations both give the Name "!" with the US keyboard layout.
 Name string
 // Modifiers is the set of active modifiers when the key was pressed.
 Modifiers Modifiers
}

// An EditEvent is generated when text is input.
type EditEvent struct {
 Text string
}

// Modifiers
type Modifiers uint32

const (
 // ModCtrl is the ctrl modifier key.
 ModCtrl Modifiers = 1 << iota
 // ModCommand is the command modifier key
 // found on Apple keyboards.
 ModCommand
 // ModShift is the shift modifier key.
 ModShift
 // ModAlt is the alt modifier key, or the option
 // key on Apple keyboards.
 ModAlt
 // ModSuper is the "logo" modifier key, often
 // represented by a Windows logo.
 ModSuper
)

const (
 // Names for special keys.
 NameLeftArrow      = ""
 NameRightArrow     = ""
 NameUpArrow        = ""
 NameDownArrow      = ""
 NameReturn         = ""
 NameEnter          = ""
 NameEscape
    = ""
 NameHome           = ""
 NameEnd            = ""
 NameDeleteBackward = ""
 NameDeleteForward  = ""
 NamePageUp         = ""
```

```
 NamePageDown       = ""
 NameTab            = ""
)

// Contain reports whether m contains all modifiers
// in m2.
func (m Modifiers) Contain(m2 Modifiers) bool {
 return m&m2 == m2
}

func (h InputOp) Add(o *op.Ops) {
 data := o.Write(opconst.TypeKeyInputLen, h.Key)
 data[0] = byte(opconst.TypeKeyInput)
 if h.Focus {
  data[1] = 1
 }
}

func (h HideInputOp) Add(o *op.Ops) {
 data := o.Write(opconst.TypeHideInputLen)
 data[0] = byte(opconst.TypeHideInput)
}

func (EditEvent) ImplementsEvent()  {}
func (Event) ImplementsEvent()      {}
func (FocusEvent) ImplementsEvent() {}

func (e Event) String() string {
 return "{" + string(e.Name) + " " + e.Modifiers.String() + "}"
}

func (m Modifiers) String() string {
 var strs []string
 if m.Contain(ModCtrl) {
  strs = append(strs, "ModCtrl")
 }
 if m.Contain(ModCommand) {
  strs = append(strs, "ModCommand")
 }
 if
 m.Contain(ModShift) {
  strs = append(strs, "ModShift")
 }
 if m.Contain(ModAlt) {
  strs = append(strs, "ModAlt")
 }
 if m.Contain(ModSuper) {
  strs = append(strs, "ModSuper")
```

```
 }
 return strings.Join(strs, "|")
}
graph{STRICU{{STRICU{STRICU}STRICU{STRICU}}}}
graph{STRIC{STRIC{STRIC{STRIC{STRIC{STRIC}STRIC}}}STRIC}}
graph{{{{{{subGras{{subGrax}}subGrau}subGrax}}}}subGrax}
graph{{SubGrt}{SubGrt}{SubGrh{{SubGrt}{SubGrt}SubGrt}{{}}}}
graph{subGrapD}
graph{{Digrap_}Digrap_}
graph{{ND{ND}{ND}ND}}
graph{Np{Np{{Np{Np}}Np}Np{{{{Np}}Np}}}}
graph{"AAAAAAAAA"}
graph{{{DiGrr{{{DiGre}}DiGru}}}DiGru}
graph{{Stri}}
graph{SUA{SUA{SUA}SUA}{SUA}SUA}
digraph{{digrapn}F}
graph{DiG{DiG}{DiG{DiG}DiG}DiG}
graph{SUBGRAV{SUBGRAV{SUBGRAU}}SUBGRAV}
graph{Nod{Nod{Nod{Nod}No}Nod{Nod}Nod{Nod}No}Nod{Nod}}
graph{{{gr}gr{gr}}gr{{gr}gr}}
graph{stric9{stric4}stric9{stric4}{stric9{stric4}stric9{stric4}}}
graph{{{{GG}GB GP}GB GG GB GP}GB GP}
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// license that can be found in the LICENSE file.

package testlapack

import (
 "fmt"
 "testing"

 "gonum.org/v1/gonum/blas/blas64"
)

type Dlaswper interface {
 Dlaswp(n int, a []float64, lda, k1, k2 int, ipiv []int, incX int)
}

func DlaswpTest(t *testing.T, impl Dlaswper) {
 for ti, test := range []struct {
  k1, k2 int
  ipiv   []int
  incX   int

  want blas64.General
 }{
  {
```

```
  k1:   0,
  k2:   2,
  ipiv: []int{0, 1, 2},
  incX: 1,
  want: blas64.General{
   Rows:   4,
   Cols:   3,
   Stride: 3,
   Data: []float64{
    1, 2, 3,
    4, 5, 6,
    7, 8, 9,
    10, 11, 12,
   },
  },
 },
 {
  k1:   0,
  k2:   2,
  ipiv: []int{0, 1, 2},
  incX: -1,
  want: blas64.General{
   Rows:   4,
   Cols:   3,
   Stride: 3,
   Data: []float64{
    1, 2, 3,
    4, 5, 6,
    7, 8, 9,
    10, 11, 12,
   },
  },
 },
 {
  k1:   0,
  k2:   2,
  ipiv: []int{1,
2, 3},
  incX: 1,
  want: blas64.General{
   Rows:   5,
   Cols:   3,
   Stride: 3,
   Data: []float64{
    4, 5, 6,
    7, 8, 9,
    10, 11, 12,
    1, 2, 3,
```

```
    13, 14, 15,
   },
  },
 },
 {
  k1:   0,
  k2:   2,
  ipiv: []int{1, 2, 3},
  incX: -1,
  want: blas64.General{
   Rows:   5,
   Cols:   3,
   Stride: 3,
   Data: []float64{
    10, 11, 12,
    1, 2, 3,
    4, 5, 6,
    7, 8, 9,
    13, 14, 15,
   },
  },
 },
} {
 m := test.want.Rows
 n := test.want.Cols
 k1 := test.k1
 k2 := test.k2
 if len(test.ipiv) != k2+1 {
  panic("bad length of ipiv")
 }
 incX := test.incX
 for _, extra := range []int{0, 11} {
  a := zeros(m, n, n+extra)
  c := 1
  for i := 0; i < m; i++ {
   for j := 0; j < n; j++ {
    a.Data[i*a.Stride+j] = float64(c)
    c++
   }
  }

  ipiv := make([]int, len(test.ipiv))
  copy(ipiv, test.ipiv)

  impl.Dlaswp(n, a.Data, a.Stride, k1, k2, ipiv, incX)

  prefix := fmt.Sprintf("Case %v (m=%v,n=%v,k1=%v,k2=%v,extra=%v)",
```

```
 ti, m, n, k1, k2, extra)
   if !generalOutsideAllNaN(a) {
    t.Errorf("%v: out-of-range write to A", prefix)
   }

   if !equalApproxGeneral(a, test.want, 0) {
    t.Errorf("%v: unexpected A\n%v\n%v", prefix, a, test.want)
   }
  }
 }
}
graph{/***********/}
graph{Subgrap{Subgrap}}
graph{{{DIGRAPA}{}{}DIGRAPA}{{DIGRAPA}{DIGRAPA}DIGRAPA{DIGRAPD}{DIGRAPD}DIGRAPA
}{{}<>{}{}DIGRAPA}}
// SPDX-License-Identifier: Unlicense OR MIT

package gpu

import (
 "time"

 "gioui.org/app/internal/gl"
)

type timers struct {
 ctx    *context
 timers []*timer
}

type timer struct {
 Elapsed time.Duration
 ctx     *context
 obj     gl.Query
 state   timerState
}

type timerState uint8

const (
 timerIdle timerState = iota
 timerRunning
 timerWaiting
)

func newTimers(ctx *context) *timers {
 return &timers{
  ctx: ctx,
```

```
 }
}

func (t *timers) newTimer() *timer {
 if t == nil {
  return nil
 }
 tt := &timer{
  ctx: t.ctx,
  obj: t.ctx.CreateQuery(),
 }
 t.timers = append(t.timers, tt)
 return tt
}

func (t *timer) begin() {
 if t == nil || t.state != timerIdle {
  return
 }
 t.ctx.BeginQuery(gl.TIME_ELAPSED_EXT, t.obj)
 t.state = timerRunning
}

func (t *timer) end() {
 if t == nil || t.state != timerRunning {
  return
 }
 t.ctx.EndQuery(gl.TIME_ELAPSED_EXT)
 t.state = timerWaiting
}

func (t *timers) ready() bool {
 if t == nil {
  return false
 }
 for _, tt := range t.timers {
  if
 tt.state != timerWaiting {
   return false
  }
  if t.ctx.GetQueryObjectuiv(tt.obj, gl.QUERY_RESULT_AVAILABLE) == 0 {
   return false
  }
 }
 for _, tt := range t.timers {
  tt.state = timerIdle
  nanos := t.ctx.GetQueryObjectuiv(tt.obj, gl.QUERY_RESULT)
  tt.Elapsed = time.Duration(nanos)
```

```
 }
 return t.ctx.GetInteger(gl.GPU_DISJOINT_EXT) == 0
}

func (t *timers) release() {
 if t == nil {
  return
 }
 for _, tt := range t.timers {
  t.ctx.DeleteQuery(tt.obj)
 }
 t.timers = nil
}
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// license that can be found in the LICENSE file.

package testblas

import (
 "testing"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/floats"
)

type Dsyr2ker interface {
 Dsyr2k(ul blas.Uplo, tA blas.Transpose, n, k int, alpha float64, a []float64, lda int, b []float64, ldb int, beta float64, c
[]float64, ldc int)
}

func Dsyr2kTest(t *testing.T, blasser Dsyr2ker) {
 for i, test := range []struct {
  ul    blas.Uplo
  tA    blas.Transpose
  n     int
  k     int
  alpha float64
  a     [][]float64
  b     [][]float64
  c     [][]float64
  beta  float64
  ans   [][]float64
 }{
  {
   ul:    blas.Upper,
   tA:    blas.NoTrans,
   n:     3,
```

```
  k:     2,
  alpha: 0,
  a: [][]float64{
   {1, 2},
   {3, 4},
   {5, 6},
  },
  b: [][]float64{
   {7, 8},
   {9, 10},
   {11, 12},
  },
  c: [][]float64{
   {1, 2, 3},
   {0, 5, 6},
   {0, 0, 9},
  },
  beta: 2,
  ans:
[][]float64{
   {2, 4, 6},
   {0, 10, 12},
   {0, 0, 18},
  },
 },
 {
  ul:    blas.Lower,
  tA:    blas.NoTrans,
  n:     3,
  k:     2,
  alpha: 0,
  a: [][]float64{
   {1, 2},
   {3, 4},
   {5, 6},
  },
  b: [][]float64{
   {7, 8},
   {9, 10},
   {11, 12},
  },
  c: [][]float64{
   {1, 0, 0},
   {2, 3, 0},
   {4, 5, 6},
  },
  beta: 2,
  ans: [][]float64{
```

```
  {2, 0, 0},
  {4, 6, 0},
  {8, 10, 12},
 },
},
{
 ul:    blas.Upper,
 tA:    blas.NoTrans,
 n:     3,
 k:     2,
 alpha: 3,
 a: []float64{
  {1, 2},
  {3, 4},
  {5, 6},
 },
 b: []float64{
  {7, 8},
  {9, 10},
  {11, 12},
 },
 c: []float64{
  {1, 2, 3},
  {0, 4, 5},
  {0, 0, 6},
 },
 beta: 2,
 ans: []float64{
  {140, 250, 360},
  {0, 410, 568},
  {0, 0, 774},
 },
},
{
 ul:    blas.Lower,
 tA:    blas.NoTrans,
 n:     3,
 k:     2,
 alpha: 3,
 a: []float64{
  {1, 2},
  {3, 4},
  {5, 6},
 },
 b: []float64{
  {7,
8},
  {9, 10},
```

```
 {11, 12},
 },
 c: []{}float64{
  {1, 0, 0},
  {2, 4, 0},
  {3, 5, 6},
 },
 beta: 2,
 ans: []{}float64{
  {140, 0, 0},
  {250, 410, 0},
  {360, 568, 774},
 },
},
{
 ul:    blas.Upper,
 tA:    blas.Trans,
 n:     3,
 k:     2,
 alpha: 3,
 a: []{}float64{
  {1, 3, 5},
  {2, 4, 6},
 },
 b: []{}float64{
  {7, 9, 11},
  {8, 10, 12},
 },
 c: []{}float64{
  {1, 2, 3},
  {0, 4, 5},
  {0, 0, 6},
 },
 beta: 2,
 ans: []{}float64{
  {140, 250, 360},
  {0, 410, 568},
  {0, 0, 774},
 },
},
{
 ul:    blas.Lower,
 tA:    blas.Trans,
 n:     3,
 k:     2,
 alpha: 3,
 a: []{}float64{
  {1, 3, 5},
```

```
    {2, 4, 6},
   },
   b: []float64{
    {7, 9, 11},
    {8, 10, 12},
   },
   c: []float64{
    {1, 0, 0},
    {2, 4, 0},
    {3, 5, 6},
   },
   beta: 2,
   ans: []float64{
    {140, 0, 0},
    {250, 410, 0},
    {360, 568, 774},
   },
  },
 } {
  aFlat := flatten(test.a)
  bFlat
 := flatten(test.b)
  cFlat := flatten(test.c)
  ansFlat := flatten(test.ans)
  blasser.Dsyr2k(test.ul, test.tA, test.n, test.k, test.alpha, aFlat, len(test.a[0]), bFlat, len(test.b[0]), test.beta, cFlat,
len(test.c[0]))
  if !floats.EqualApprox(ansFlat, cFlat, 1e-14) {
   t.Errorf("Case %v. Want %v, got %v.", i, ansFlat, cFlat)
  }
 }
}
graph{{DiGrap8}{DiGrap8}{DiGrap8}<>{}{DiGrap8}{DiGrap8}DiGrap8}
graph{e{{e{e}eQ-5e}e}eQ-5e}
graph{{{{{{Digra_{Digra_}}Digra_{Digra_}Digra_{Digra_{Digra_}}}}}}}
graph{{nod_}nod_{nod_}}
graph{{{{{{{{{Edge}}}}}}}}}
graph{strA{strA}}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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// license that can be found in the LICENSE file.

package unit

import (
 "errors"
 "fmt"
```

```
 "math"
 "unicode/utf8"
)

// Length represents a length in metres.
type Length float64

const Metre Length = 1

// Unit converts the Length to a *Unit
func (l Length) Unit() *Unit {
 return New(float64(l), Dimensions{
  LengthDim: 1,
 })
}

// Length allows Length to implement a Lengther interface
func (l Length) Length() Length {
 return l
}

// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (l *Length) From(u Uniter) error {
 if !DimensionsMatch(u, Metre) {
  *l = Length(math.NaN())
  return errors.New("Dimension mismatch")
 }
 *l = Length(u.Unit().Value())
 return nil
}

func (l Length) Format(fs fmt.State, c rune) {
 switch c {
 case 'v':
  if fs.Flag('#')
  {
   fmt.Fprintf(fs, "%T(%v)", l, float64(l))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " m"
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(l))
```

```
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(l))
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(l))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(l))
  }
  fmt.Fprint(fs, unit)
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g m)", c, l, float64(l))
 }
}
graph{SUBGR7}
graph<<=><=>>{{<<=><=>>}<<=><=><=><=>>{{<<=><=>>}<<=><=>>}}
graph{"\\\\\\\\\\\\\\\"}
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package path

import (
 "testing"

 "gonum.org/v1/gonum/graph"
 "gonum.org/v1/gonum/graph/graphs/gen"
 "gonum.org/v1/gonum/graph/simple"
)

var (
 gnpUndirected_10_tenth   = gnpUndirected(10, 0.1)
 gnpUndirected_100_tenth  = gnpUndirected(100, 0.1)
 gnpUndirected_1000_tenth = gnpUndirected(1000, 0.1)
 gnpUndirected_10_half    = gnpUndirected(10, 0.5)
 gnpUndirected_100_half   = gnpUndirected(100, 0.5)
 gnpUndirected_1000_half  = gnpUndirected(1000, 0.5)

 nswUndirected_10_2_2_2   = navigableSmallWorldUndirected(10, 2, 2, 2)
 nswUndirected_10_2_5_2   = navigableSmallWorldUndirected(10, 2, 5, 2)
 nswUndirected_100_5_10_2 = navigableSmallWorldUndirected(100, 5, 10, 2)
 nswUndirected_100_5_20_2 = navigableSmallWorldUndirected(100, 5, 20, 2)
)

func gnpUndirected(n int, p float64) graph.Undirected {
 g := simple.NewUndirectedGraph()
 gen.Gnp(g,
 n, p, nil)
 return g
```

```
}

func navigableSmallWorldUndirected(n, p, q int, r float64) graph.Undirected {
 g := simple.NewUndirectedGraph()
 gen.NavigableSmallWorld(g, []int{n, n}, p, q, r, nil)
 return g
}

func manhattan(size int) func(x, y graph.Node) float64 {
 return func(x, y graph.Node) float64 {
  return manhattanBetween(coordinatesForID(x, size, size), coordinatesForID(y, size, size))
 }
}

func coordinatesForID(n graph.Node, c, r int) [2]int {
 id := n.ID()
 if id >= int64(c*r) {
  panic("out of range")
 }
 return [2]int{int(id) / r, int(id) % r}
}

// manhattanBetween returns the Manhattan distance between a and b.
func manhattanBetween(a, b [2]int) float64 {
 var d int
 for i, v := range a {
  d += abs(v - b[i])
 }
 return float64(d)
}

func abs(a int) int {
 if a < 0 {
  return -a
 }
 return a
}

func BenchmarkAStarUndirected(b *testing.B) {
 benchmarks := []struct {
  name  string
  graph graph.Undirected
  h     Heuristic
 }{
  {"GNP Undirected 10 tenth", gnpUndirected_10_tenth,
 nil},
  {"GNP Undirected 100 tenth", gnpUndirected_100_tenth, nil},
  {"GNP Undirected 1000 tenth", gnpUndirected_1000_tenth, nil},
```

```
  {"GNP Undirected 10 half", gnpUndirected_10_half, nil},
  {"GNP Undirected 100 half", gnpUndirected_100_half, nil},
  {"GNP Undirected 1000 half", gnpUndirected_1000_half, nil},

  {"NSW Undirected 10 2 2 2", nswUndirected_10_2_2_2, nil},
  {"NSW Undirected 10 2 2 2 heuristic", nswUndirected_10_2_2_2, manhattan(10)},
  {"NSW Undirected 10 2 5 2", nswUndirected_10_2_5_2, nil},
  {"NSW Undirected 10 2 5 2 heuristic", nswUndirected_10_2_5_2, manhattan(10)},
  {"NSW Undirected 100 5 10 2", nswUndirected_100_5_10_2, nil},
  {"NSW Undirected 100 5 10 2 heuristic", nswUndirected_100_5_10_2, manhattan(100)},
  {"NSW Undirected 100 5 20 2", nswUndirected_100_5_20_2, nil},
  {"NSW Undirected 100 5 20 2 heuristic", nswUndirected_100_5_20_2, manhattan(100)},
 }

 for _, bm := range benchmarks {
  b.Run(bm.name, func(b *testing.B) {
   var expanded
 int
   for i := 0; i < b.N; i++ {
    _, expanded = AStar(simple.Node(0), simple.Node(1), bm.graph, bm.h)
   }
   if expanded == 0 {
    b.Fatal("unexpected number of expanded nodes")
   }
  })
 }
}

var (
 gnpDirected_500_tenth  = gnpDirected(500, 0.1)
 gnpDirected_1000_tenth = gnpDirected(1000, 0.1)
 gnpDirected_2000_tenth = gnpDirected(2000, 0.1)
 gnpDirected_500_half   = gnpDirected(500, 0.5)
 gnpDirected_1000_half  = gnpDirected(1000, 0.5)
 gnpDirected_2000_half  = gnpDirected(2000, 0.5)
 gnpDirected_500_full   = gnpDirected(500, 1)
 gnpDirected_1000_full  = gnpDirected(1000, 1)
 gnpDirected_2000_full  = gnpDirected(2000, 1)
)

func gnpDirected(n int, p float64) graph.Directed {
 g := simple.NewDirectedGraph()
 gen.Gnp(g, n, p, nil)
 return g
}

func BenchmarkBellmanFordFrom(b *testing.B) {
 benchmarks := []struct {
```

```
 name  string
 graph graph.Directed
}{
 {"500 tenth", gnpDirected_500_tenth},
 {"1000 tenth", gnpDirected_1000_tenth},
 {"2000 tenth", gnpDirected_2000_tenth},
 {"500
half", gnpDirected_500_half},
 {"1000 half", gnpDirected_1000_half},
 {"2000 half", gnpDirected_2000_half},
 {"500 full", gnpDirected_500_full},
 {"1000 full", gnpDirected_1000_full},
 {"2000 full", gnpDirected_2000_full},
}

for _, bm := range benchmarks {
 b.Run(bm.name, func(b *testing.B) {
  for i := 0; i < b.N; i++ {
   BellmanFordFrom(bm.graph.Node(0), bm.graph)
  }
 })
}
}
graph{SUBGp{SUBGh{SUBGp{SUBGp{SUBGp{SUBGh{SUBGp{SUBGp}}}}}}}
graph{{diGrat}}
graph{{s}}
graph{Sub_{{{Sub_{{Sub_}Sub_}}}Sub_}}
graph{Strica-9Strica}
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// license that can be found in the LICENSE file.

package fd

import (
 "gonum.org/v1/gonum/floats"
 "gonum.org/v1/gonum/mat"
)

// ConstFunc is a constant function returning the value held by the type.
type ConstFunc float64

func (c ConstFunc) Func(x []float64) float64 {
 return float64(c)
}

func (c ConstFunc) Grad(grad, x []float64) {
 for i := range grad {
```

```
  grad[i] = 0
 }
}

func (c ConstFunc) Hess(dst mat.MutableSymmetric, x []float64) {
 n := len(x)
 for i := 0; i < n; i++ {
  for j := i; j < n; j++ {
   dst.SetSym(i, j, 0)
  }
 }
}

// LinearFunc is a linear function returning w*x+c.
type LinearFunc struct {
 w []float64
 c float64
}

func (l LinearFunc) Func(x []float64) float64 {
 return floats.Dot(l.w, x) + l.c
}

func (l LinearFunc) Grad(grad, x []float64) {
 copy(grad, l.w)
}

func (l LinearFunc) Hess(dst mat.MutableSymmetric, x []float64) {
 n := len(x)
 for i
 := 0; i < n; i++ {
  for j := i; j < n; j++ {
   dst.SetSym(i, j, 0)
  }
 }
}

// QuadFunc is a quadratic function returning 0.5*x'*a*x + b*x + c.
type QuadFunc struct {
 a *mat.SymDense
 b *mat.VecDense
 c float64
}

func (q QuadFunc) Func(x []float64) float64 {
 v := mat.NewVecDense(len(x), x)
 var tmp mat.VecDense
 tmp.MulVec(q.a, v)
```

```
 return 0.5*mat.Dot(&tmp, v) + mat.Dot(q.b, v) + q.c
}

func (q QuadFunc) Grad(grad, x []float64) {
 var tmp mat.VecDense
 v := mat.NewVecDense(len(x), x)
 tmp.MulVec(q.a, v)
 for i := range grad {
  grad[i] = tmp.At(i, 0) + q.b.At(i, 0)
 }
}

func (q QuadFunc) Hess(dst mat.MutableSymmetric, x []float64) {
 n := len(x)
 for i := 0; i < n; i++ {
  for j := i; j < n; j++ {
   dst.SetSym(i, j, q.a.At(i, j))
  }
 }
}
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package mathext

import (
 "math"
 "testing"
)

func TestZeta(t *testing.T) {
 for i, test := range []struct {
  x, q, want float64
 }{
  // Results computed using scipy.special.zeta
  {1, 1, math.Inf(1)},
  {1.00001, 0.5, 100001.96352290553},
  {1.0001, 25, 9996.8017690244506},
  {1.001, 1, 1000.5772884760117},
  {1.01, 10, 97.773405639173305},
  {1.5, 2, 1.6123753486854886},
  {1.5, 20, 0.45287361712938717},
  {2, -0.7, 14.28618087263834},
  {2.5, 0.5, 6.2471106345688137},
  {5, 2.5, 0.013073166646113805},
  {7.5, 5, 7.9463377443314306e-06},
  {10, -0.5, 2048.0174503557578},
```

```
  {10, 0.5, 1024.0174503557578},
  {10, 7.5, 2.5578265694201971e-9},
  {12, 2.5, 1.7089167198843551e-5},
  {17, 0.5, 131072.00101513157},
  {20, -2.5, 2097152.0006014798},
  {20, 0.75, 315.3368689825316},
  {25, 0.25, 1125899906842624.0},
  {30, 1, 1.0000000009313275},
 }
 {
  if got := Zeta(test.x, test.q); math.Abs(got-test.want) > 1e-10 {
   t.Errorf("test %d Zeta(%g, %g) failed: got %g want %g", i, test.x, test.q, got, test.want)
  }
 }
}
graph{{{{DiGrap}DiGrap{{}DiGrap{{DiGrap}DiGrap}}DiGrap}}}
graph{{{{{{st_}{st_}st_}{st_}st_}{st_}}}}}
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// Package graph defines graph interfaces.
//
// Routines to test contract compliance by user implemented graph types
// are available in gonum.org/v1/gonum/graph/testgraph.
package graph // import "gonum.org/v1/gonum/graph"
graph{ED{ED{ED{ED}ED}ED{ED}ED{ED}ED}}
graph{{Su_{Su_}{Su_}}}
graph{{{subgr{{{{}{{{{}subgr}}}}}{{subgr{}""}}{{subgr{}subgr{{{{}subgr}}}}}}subgr}{subgr{{{subgr{}sub
gr{}}}}}}}
graph{{SubGrap_{{SubGrap_}}}}
Graph{{Subgr4}{Subgr4}}
graph{subGra}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "errors"
 "fmt"
 "math"
 "unicode/utf8"
)
```

```
// Angle represents an angle in radians.
type Angle float64

const Rad Angle = 1

// Unit converts the Angle to a *Unit
func (a Angle) Unit() *Unit {
 return New(float64(a), Dimensions{
  AngleDim: 1,
 })
}

// Angle allows Angle to implement a Angleer interface
func (a Angle) Angle() Angle {
 return a
}

// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (a *Angle) From(u Uniter) error {
 if !DimensionsMatch(u, Rad) {
  *a = Angle(math.NaN())
  return errors.New("Dimension mismatch")
 }
 *a = Angle(u.Unit().Value())
 return nil
}

func (a Angle) Format(fs fmt.State, c rune) {
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs,
 "%T(%v)", a, float64(a))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " rad"
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(a))
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(a))
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(a))
```

```
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(a))
  }
  fmt.Fprint(fs, unit)
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g rad)", c, a, float64(a))
 }
}
graph{digrapU}
graph{{{{{St}St}}}}
graph{{digu}}
graph{{DY{DN}DY}DY{DN}DY}
graph{{DIGRAPO{{DIGRAPO}DIGRAPO{{DIGRAPO}}}}}
graph{{{gra{{gra{{gra}{gra{gra{{gra}{gra}}}}}gra}{gra{gra{{}}}gra}{gra{gra{{gra}{gra}{gra}}}}{gra}}}}}
graph{dir{dir{dir}{dir{dih{{dir{dir}{dir{dih{di}}dir}}di}}dir}}}
graph{{gr{gr}gr}}
Graph{{subgrapg}}
Graph{id}
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package gonum

import (
 "testing"

 "gonum.org/v1/gonum/blas/testblas"
)

func TestZgemm(t *testing.T)  { testblas.ZgemmTest(t, impl) }
func TestZhemm(t *testing.T)  { testblas.ZhemmTest(t, impl) }
func TestZherk(t *testing.T)  { testblas.ZherkTest(t, impl) }
func TestZher2k(t *testing.T) { testblas.Zher2kTest(t, impl) }
func TestZsymm(t *testing.T)  { testblas.ZsymmTest(t, impl) }
func TestZsyrk(t *testing.T)  { testblas.ZsyrkTest(t, impl) }
func TestZsyr2k(t *testing.T) { testblas.Zsyr2kTest(t, impl) }
func TestZtrmm(t *testing.T)  { testblas.ZtrmmTest(t, impl) }
func TestZtrsm(t *testing.T)  { testblas.ZtrsmTest(t, impl) }
graph{{{{st{{st }}st}}st}st}
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package testlapack

import (
 "testing"
```

```
 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/floats"
)

type Dorg2rer interface {
 Dgeqrfer
 Dorg2r(m, n, k int, a []float64, lda int, tau []float64, work []float64)
}

func Dorg2rTest(t *testing.T, impl Dorg2rer) {
 rnd := rand.New(rand.NewSource(1))
 for ti, test := range []struct {
  m, n, k, lda int
 }{
  {3, 3, 0, 0},
  {4, 3, 0, 0},
  {3, 3, 2, 0},
  {4, 3, 2, 0},

  {5, 5, 0, 20},
  {5, 5, 3, 20},
  {10, 5, 0, 20},
  {10, 5, 2, 20},
 } {
  m := test.m
  n := test.n
  lda := test.lda
  if lda == 0 {
   lda = test.n
  }
  // Allocate mn matrix A and fill it with random numbers.
  a := make([]float64, m*lda)
  for i := range a {
   a[i] = rnd.NormFloat64()
  }

  // Compute the QR decomposition of A.
  tau := make([]float64, min(m, n))
  work := make([]float64, 1)
  impl.Dgeqrf(m,
 n, a, lda, tau, work, -1)
  work = make([]float64, int(work[0]))
  impl.Dgeqrf(m, n, a, lda, tau, work, len(work))

  // Compute the matrix Q explicitly using the first k elementary reflectors.
  k := test.k
```

```
 if k == 0 {
  k = n
 }
 q := constructQK("QR", m, n, k, a, lda, tau)

 // Compute the matrix Q using Dorg2r.
 impl.Dorg2r(m, n, k, a, lda, tau, work)

 // Check that the first n columns of both results match.
 same := true
loop:
 for i := 0; i < m; i++ {
  for j := 0; j < n; j++ {
   if !floats.EqualWithinAbsOrRel(q.Data[i*q.Stride+j], a[i*lda+j], 1e-12, 1e-12) {
    same = false
    break loop
   }
  }
 }
 if !same {
  t.Errorf("Case %v: Q mismatch", ti)
 }
}
}
graph{Digra1{{{Digra9}}Digra5}Digra1{Digra5}}
graph{Sub_{{Sub_}Sub_}}
graph{{"\{"{"\{"{"\{"}"\d"}}"\d"}
graph{{subGra{{{{subGra{}subGra}}}subGra}}}
golang.org/x/sys v0.0.0-20191113165036-4c7a9d0fe056
h1:dHtDnRWQtSx0Hjq9kvKFpBh9uPPKfQN70NZZmvssGwk=
golang.org/x/sys v0.0.0-20191113165036-4c7a9d0fe056/go.mod
h1:h1NjWce9XRLGQEsW7wpKNCjG9DtNlClVuFLEZdDNbEs=
graph{NODG}
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package mat_test

import (
 "fmt"

 "gonum.org/v1/gonum/mat"
)

func ExampleCholesky() {
 // Construct a symmetric positive definite matrix.
 tmp := mat.NewDense(4, 4, []float64{
```

```
 2, 6, 8, -4,
 1, 8, 7, -2,
 2, 2, 1, 7,
 8, -2, -2, 1,
})
var a mat.SymDense
a.SymOuterK(1, tmp)

fmt.Printf("a = %0.4v\n", mat.Formatted(&a, mat.Prefix("    ")))

// Compute the cholesky factorization.
var chol mat.Cholesky
if ok := chol.Factorize(&a); !ok {
 fmt.Println("a matrix is not positive semi-definite.")
}

// Find the determinant.
fmt.Printf("\nThe determinant of a is %0.4g\n\n", chol.Det())

// Use the factorization to solve the system of equations a * x = b.
b := mat.NewVecDense(4, []float64{1, 2, 3, 4})
var x mat.VecDense
if err := chol.SolveVecTo(&x, b); err != nil {
 fmt.Println("Matrix is near singular: ", err)
}
fmt.Println("Solve
a * x = b")
fmt.Printf("x = %0.4v\n", mat.Formatted(&x, mat.Prefix("    ")))

// Extract the factorization and check that it equals the original matrix.
var t mat.TriDense
chol.LTo(&t)
var test mat.Dense
test.Mul(&t, t.T())
fmt.Println()
fmt.Printf("L * L = %0.4v\n", mat.Formatted(&a, mat.Prefix("        ")))

// Output:
// a = 120  114   -4  -16
//     114  118   11  -24
//      -4   11   58   17
//     -16  -24   17   73
//
// The determinant of a is 1.543e+06
//
// Solve a * x = b
// x =   -0.239
//       0.2732
```

```
//     -0.04681
//       0.1031
//
// L * L = 120  114   -4  -16
//          114  118   11  -24
//           -4   11   58   17
//          -16  -24   17   73
}

func ExampleCholesky_SymRankOne() {
 a := mat.NewSymDense(4, []float64{
  1, 1, 1, 1,
  0, 2, 3, 4,
  0, 0, 6, 10,
  0, 0, 0, 20,
 })
 fmt.Printf("A = %0.4v\n", mat.Formatted(a, mat.Prefix("    ")))

 // Compute the Cholesky factorization.
 var chol mat.Cholesky
 if ok
 := chol.Factorize(a); !ok {
  fmt.Println("matrix a is not positive definite.")
 }

 x := mat.NewVecDense(4, []float64{0, 0, 0, 1})
 fmt.Printf("\nx = %0.4v\n", mat.Formatted(x, mat.Prefix("    ")))

 // Rank-1 update the factorization.
 chol.SymRankOne(&chol, 1, x)
 // Rank-1 update the matrix a.
 a.SymRankOne(a, 1, x)

 var au mat.SymDense
 chol.ToSym(&au)

 // Print the matrix that was updated directly.
 fmt.Printf("\nA' =        %0.4v\n", mat.Formatted(a, mat.Prefix("            ")))
 // Print the matrix recovered from the factorization.
 fmt.Printf("\nU' * U' =  %0.4v\n", mat.Formatted(&au, mat.Prefix("            ")))

 // Output:
 // A =  1   1   1   1
 //      1   2   3   4
 //      1   3   6  10
 //      1   4  10  20
 //
 // x = 0
```

```
 //     0
 //     0
 //     1
 //
 // A' =        1   1   1   1
 //             1   2   3   4
 //             1   3   6  10
 //             1   4  10  21
 //
 // U' * U' =   1   1   1   1
 //             1   2   3   4
 //             1   3   6
  10
 //             1   4  10  21
}
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// Copyright 2017 The Gonum Authors. All rights reserved.
// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

package spatial

import (
 "math"

 "gonum.org/v1/gonum/mat"
 "gonum.org/v1/gonum/stat"
)

// TODO(kortschak): Implement weighted routines.

// GetisOrdGStar returns the Local Getis-Ord G*i statistic for element of the
// weighted data using the provided locality matrix. The returned value is a z-score.
//
//  G^*_i = num_i / den_i
//
//  num_i = \sum_j (w_{ij} x_j) - \bar X \sum_j w_{ij}
//  den_i = S \sqrt(((n \sum_j w_{ij}^2 - (\sum_j w_{ij})^2))/(n - 1))
//  \bar X = (\sum_j x_j) / n
//  S = \sqrt((\sum_j x_j^2)/n - (\bar X)^2)
//
// GetisOrdGStar will panic if locality is not a square matrix with dimensions the
```

```
// same as the length of data or if i is not a valid index into data.
//
// See doi.org/10.1111%2Fj.1538-4632.1995.tb00912.x.
//
// Weighted Getis-Ord G*i is not currently implemented and GetisOrdGStar will
// panic
 if weights is not nil.
func GetisOrdGStar(i int, data, weights []float64, locality mat.Matrix) float64 {
 if weights != nil {
  panic("spatial: weighted data not yet implemented")
 }
 r, c := locality.Dims()
 if r != len(data) || c != len(data) {
  panic("spatial: data length mismatch")
 }

 n := float64(len(data))
 mean, std := stat.MeanStdDev(data, weights)
 var dwd, dww, sw float64
 if doer, ok := locality.(mat.RowNonZeroDoer); ok {
  doer.DoRowNonZero(i, func(_, j int, w float64) {
   sw += w
   dwd += w * data[j]
   dww += w * w
  })
 } else {
  for j, v := range data {
   w := locality.At(i, j)
   sw += w
   dwd += w * v
   dww += w * w
  }
 }
 s := std * math.Sqrt((n-1)/n)

 return (dwd - mean*sw) / (s * math.Sqrt((n*dww-sw*sw)/(n-1)))
}

// GlobalMoransI performs Global Moran's I calculation of spatial autocorrelation
// for the given data using the provided locality matrix. GlobalMoransI returns
// Moran's I, Var(I) and the z-score associated with those values.
// GlobalMoransI
 will panic if locality is not a square matrix with dimensions the
// same as the length of data.
//
// See https://doi.org/10.1111%2Fj.1538-4632.2007.00708.x.
//
// Weighted Global Moran's I is not currently implemented and GlobalMoransI will
```

```
// panic if weights is not nil.
func GlobalMoransI(data, weights []float64, locality mat.Matrix) (i, v, z float64) {
 if weights != nil {
  panic("spatial: weighted data not yet implemented")
 }
 if r, c := locality.Dims(); r != len(data) || c != len(data) {
  panic("spatial: data length mismatch")
 }
 mean := stat.Mean(data, nil)

 doer, isDoer := locality.(mat.RowNonZeroDoer)

 // Calculate Moran's I for the data.
 var num, den, sum float64
 for i, xi := range data {
  zi := xi - mean
  den += zi * zi
  if isDoer {
   doer.DoRowNonZero(i, func(_, j int, w float64) {
    sum += w
    zj := data[j] - mean
    num += w * zi * zj
   })
  } else {
   for j, xj := range data {
    w := locality.At(i, j)
    sum += w
    zj := xj - mean
    num +=
 w * zi * zj
   }
  }
 }
 i = (float64(len(data)) / sum) * (num / den)

 // Calculate Moran's E(I) for the data.
 e := -1 / float64(len(data)-1)

 // Calculate Moran's Var(I) for the data.
 //  http://pro.arcgis.com/en/pro-app/tool-reference/spatial-statistics/h-how-spatial-autocorrelation-moran-s-i-spatial-
st.htm
 //  http://pro.arcgis.com/en/pro-app/tool-reference/spatial-statistics/h-global-morans-i-additional-math.htm
 var s0, s1, s2 float64
 var var2, var4 float64
 for i, v := range data {
  v -= mean
  v *= v
  var2 += v
```

```
 var4 += v * v

 var p2 float64
 if isDoer {
  doer.DoRowNonZero(i, func(i, j int, wij float64) {
   wji := locality.At(j, i)

   s0 += wij

   v := wij + wji
   s1 += v * v

   p2 += v
  })
 } else {
  for j := range data {
   wij := locality.At(i, j)
   wji := locality.At(j, i)

   s0 += wij

   v := wij + wji
   s1 += v * v

   p2 += v
  }
 }
 s2 += p2 * p2
}
s1 *= 0.5

n := float64(len(data))
a := n * ((n*n-3*n+3)*s1 - n*s2 + 3*s0*s0)
c
:= (n - 1) * (n - 2) * (n - 3) * s0 * s0
d := var4 / (var2 * var2)
b := d * ((n*n-n)*s1 - 2*n*s2 + 6*s0*s0)

v = (a-b)/c - e*e

// Calculate z-score associated with Moran's I for the data.
z = (i - e) / math.Sqrt(v)

return i, v, z
}
graph{{ed""ed}ed""ed{ed""ed}}
graph{{DiG_}}
```

```
graph{_[f=DiGra9]}
// SPDX-License-Identifier: Unlicense OR MIT

// +build android darwin,ios

package window

// Android only supports non-Java programs as c-shared libraries.
// Unfortunately, Go does not run a program's main function in
// library mode. To make Gio programs simpler and uniform, we'll
// link to the main function here and call it from Java.

import (
 "sync"
 _ "unsafe" // for go:linkname
)

//go:linkname mainMain main.main
func mainMain()

var runMainOnce sync.Once

func runMain() {
 runMainOnce.Do(func() {
  // Indirect call, since the linker does not know the address of main when
  // laying down this package.
  fn := mainMain
  go fn()
 })
}
graph{{{subgz{{{subgu}}}}}}
graph{graph[f=2][f=4][f=8][f=2][f=2][f=3][f=7][f=2][f=4][f=6][f=6][f=4][f=4][f=9][f=4][f=4][f=4][f=4][f=4][f=1][
f=4][f=6][f=6][f=4][f=1][f=6][f=1][f=2][f=7][f=1][f=1][f=1][f=1][f=8][f=1][f=3][f=5][f=1][f=1][f=1][f=9]}
graph{Stm Stm Stm Stm Stm}
graph{{{{{subGra}}subGra}}}
digraph{e5-6e7->e1}
graph{{{graph_{{{graph_{}graph_}}}graph_{}graph_{{graph_{{{graph_{}graph_}}}}graph_}}}graph_}
graph{{{GRa{GRi}{GRa{{GRi}{GRa{GRi}}}}}}GRa}
graph{<K>}
graph{nod0{nod0}}
graph{<[l==d]}][l= iri][l=''][l= iri][l=''][l='']e>[e=d]}
# This is the official list of people who can contribute
# (and typically have contributed) code to the Go repository.
# The AUTHORS file lists the copyright holders; this file
# lists people.  For example, Google employees are listed here
# but not in AUTHORS, because Google holds the copyright.
#
# The submission process automatically checks to make sure
```

that people submitting code are listed in this file (by email address).
#
Names should be added to this file only after verifying that
the individual or the individual's organization has agreed to
the appropriate Contributor License Agreement, found here:
#
http://code.google.com/legal/individual-cla-v1.0.html
http://code.google.com/legal/corporate-cla-v1.0.html
#
The agreement for individuals can be filled out on the web.
#
When adding J Random Contributor's name to this file,
either J's name or J's organization's name should be
added to the AUTHORS file, depending on whether the
individual or corporate
 CLA was used.

Names should be added to this file like so:
Name <email address>
#
An entry with two email addresses specifies that the
first address should be used in the submit logs and
that the second address should be recognized as the
same person when interacting with Rietveld.

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// license that can be found in the LICENSE file.

package testlapack

import (
 "fmt"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/floats"
 "gonum.org/v1/gonum/lapack"
)

```
type Dtrconer interface {
 Dtrcon(norm lapack.MatrixNorm, uplo blas.Uplo, diag blas.Diag, n int, a []float64, lda int, work []float64, iwork
[]int) float64

 Dtrtri(uplo blas.Uplo, diag blas.Diag, n int, a []float64, lda int) bool
 Dlantr(norm lapack.MatrixNorm, uplo blas.Uplo, diag blas.Diag, m, n int, a []float64, lda int, work []float64)
float64
}

func DtrconTest(t *testing.T, impl Dtrconer) {
 rnd := rand.New(rand.NewSource(1))
 for _, n := range []int{0, 1, 2, 3, 4, 5, 10, 50} {
  for _, uplo := range []blas.Uplo{blas.Lower, blas.Upper} {
   for _, diag := range []blas.Diag{blas.NonUnit, blas.Unit} {
    for _, lda := range []int{max(1, n), n + 3} {
     for _,
 mattype := range []int{0, 1, 2} {
      dtrconTest(t, impl, rnd, uplo, diag, n, lda, mattype)
     }
    }
   }
  }
 }
}

func dtrconTest(t *testing.T, impl Dtrconer, rnd *rand.Rand, uplo blas.Uplo, diag blas.Diag, n, lda, mattype int) {
 const ratioThresh = 10

 a := make([]float64, max(0, (n-1)*lda+n))
 for i := range a {
  a[i] = rnd.Float64()
 }
 switch mattype {
 default:
  panic("bad mattype")
 case 0:
  // Matrix filled with consecutive integer values.
  // For lapack.MaxRowSum norm (infinity-norm) these matrices
  // sometimes lead to a slightly inaccurate estimate of the condition
  // number.
  c := 2.0
  for i := 0; i < n; i++ {
   for j := 0; j < n; j++ {
    a[i*lda+j] = c
    c += 1
   }
  }
 case 1:
```

```
 // Identity matrix.
 if uplo == blas.Upper {
  for i := 0; i < n; i++ {
   for j := i + 1; j < n; j++ {
    a[i*lda+j] = 0
   }
  }
 } else {
  for i := 0; i < n; i++ {
   for j := 0; j < i; j++ {
    a[i*lda+j] = 0
   }
  }
 }
 if diag == blas.NonUnit {
  for
i := 0; i < n; i++ {
   a[i*lda+i] = 1
  }
 }
case 2:
 // Matrix filled with random values uniformly in [-1,1).
 // These matrices often lead to a slightly inaccurate estimate
 // of the condition number.
 for i := 0; i < n; i++ {
  for j := 0; j < n; j++ {
   a[i*lda+j] = 2*rnd.Float64() - 1
  }
 }
}
aCopy := make([]float64, len(a))
copy(aCopy, a)

// Compute the inverse A^{-1}.
aInv := make([]float64, len(a))
copy(aInv, a)
ok := impl.Dtrtri(uplo, diag, n, aInv, lda)
if !ok {
 t.Fatalf("uplo=%v,diag=%v,n=%v,lda=%v,mattype=%v: bad matrix, Dtrtri failed", string(uplo), string(diag), n, lda,
mattype)
}

work := make([]float64, 3*n)
iwork := make([]int, n)
for _, norm := range []lapack.MatrixNorm{lapack.MaxColumnSum, lapack.MaxRowSum} {
 name := fmt.Sprintf("norm=%v,uplo=%v,diag=%v,n=%v,lda=%v,mattype=%v", string(norm), string(uplo),
string(diag), n, lda, mattype)
```

```
 // Compute the norm of A and A^{-1}.
 aNorm := impl.Dlantr(norm, uplo, diag, n, n, a, lda, work)
 aInvNorm
:= impl.Dlantr(norm, uplo, diag, n, n, aInv, lda, work)

 // Compute a good estimate of the condition number
 //  rcondWant := 1/(norm(A) * norm(inv(A)))
 rcondWant := 1.0
 if aNorm > 0 && aInvNorm > 0 {
  rcondWant = 1 / aNorm / aInvNorm
 }

 // Compute an estimate of rcond using Dtrcon.
 rcondGot := impl.Dtrcon(norm, uplo, diag, n, a, lda, work, iwork)
 if !floats.Equal(a, aCopy) {
  t.Errorf("%v: unexpected modification of a", name)
 }

 ratio := rCondTestRatio(rcondGot, rcondWant)
 if ratio >= ratioThresh {
  t.Errorf("%v: unexpected value of rcond; got=%v, want=%v (ratio=%v)",
   name, rcondGot, rcondWant, ratio)
 }
}
}
graph{Nodr{{Nodr}Nodr}Nodr{Nodr}}
graph{{{{digra4}{digra4}digra4}}}
// Copyright 2016 The Gonum Authors. All rights reserved.
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// license that can be found in the LICENSE file.

/*
* Cephes Math Library Release 2.4:  March,1996
* Copyright 1984, 1996 by Stephen L. Moshier
*/

package cephes

import "math"

// Incbi computes the inverse of the regularized incomplete beta integral.
func Incbi(aa, bb, yy0 float64) float64 {
 var a, b, y0, d, y, x, x0, x1, lgm, yp, di, dithresh, yl, yh, xt float64
 var i, rflg, dir, nflg int

 if yy0 <= 0 {
  return (0.0)
 }
```

```
if yy0 >= 1.0 {
 return (1.0)
}
x0 = 0.0
yl = 0.0
x1 = 1.0
yh = 1.0
nflg = 0

if aa <= 1.0 || bb <= 1.0 {
 dithresh = 1.0e-6
 rflg = 0
 a = aa
 b = bb
 y0 = yy0
 x = a / (a + b)
 y = Incbet(a, b, x)
 goto ihalve
} else {
 dithresh = 1.0e-4
}
// Approximation to inverse function
yp = -Ndtri(yy0)

if yy0 > 0.5 {
 rflg = 1
 a = bb
 b = aa
 y0 = 1.0 - yy0
 yp = -yp
} else {
 rflg = 0
 a = aa
 b = bb
 y0 = yy0
}

lgm =
(yp*yp - 3.0) / 6.0
x = 2.0 / (1.0/(2.0*a-1.0) + 1.0/(2.0*b-1.0))
d = yp*math.Sqrt(x+lgm)/x - (1.0/(2.0*b-1.0)-1.0/(2.0*a-1.0))*(lgm+5.0/6.0-2.0/(3.0*x))
d = 2.0 * d
if d < minLog {
 // mtherr("incbi", UNDERFLOW)
 x = 0
 goto done
}
x = a / (a + b*math.Exp(d))
```

```
 y = Incbet(a, b, x)
 yp = (y - y0) / y0
 if math.Abs(yp) < 0.2 {
  goto newt
 }

 /* Resort to interval halving if not close enough. */
ihalve:

 dir = 0
 di = 0.5
 for i = 0; i < 100; i++ {
  if i != 0 {
   x = x0 + di*(x1-x0)
   if x == 1.0 {
    x = 1.0 - machEp
   }
   if x == 0.0 {
    di = 0.5
    x = x0 + di*(x1-x0)
    if x == 0.0 {
     // mtherr("incbi", UNDERFLOW)
     goto done
    }
   }
   y = Incbet(a, b, x)
   yp = (x1 - x0) / (x1 + x0)
   if math.Abs(yp) < dithresh {
    goto newt
   }
   yp = (y - y0) / y0
   if math.Abs(yp) < dithresh {
    goto newt
   }
  }
  if y < y0 {
   x0 = x
   yl = y
   if dir < 0 {
    dir = 0
    di = 0.5
   } else if dir > 3 {
    di = 1.0 - (1.0-di)*(1.0-di)
   } else if
 dir > 1 {
    di = 0.5*di + 0.5
   } else {
    di = (y0 - y) / (yh - yl)
```

```
  }
  dir += 1
  if x0 > 0.75 {
   if rflg == 1 {
    rflg = 0
    a = aa
    b = bb
    y0 = yy0
   } else {
    rflg = 1
    a = bb
    b = aa
    y0 = 1.0 - yy0
   }
   x = 1.0 - x
   y = Incbet(a, b, x)
   x0 = 0.0
   yl = 0.0
   x1 = 1.0
   yh = 1.0
   goto ihalve
  }
 } else {
  x1 = x
  if rflg == 1 && x1 < machEp {
   x = 0.0
   goto done
  }
  yh = y
  if dir > 0 {
   dir = 0
   di = 0.5
  } else if dir < -3 {
   di = di * di
  } else if dir < -1 {
   di = 0.5 * di
  } else {
   di = (y - y0) / (yh - yl)
  }
  dir -= 1
 }
}
// mtherr("incbi", PLOSS)
if x0 >= 1.0 {
 x = 1.0 - machEp
 goto done
}
if x <= 0.0 {
```

```
 // mtherr("incbi", UNDERFLOW)
 x = 0.0
 goto done
}

newt:
 if nflg > 0 {
  goto done
 }
 nflg = 1
 lgm = lgam(a+b) - lgam(a) - lgam(b)

 for i = 0; i < 8; i++ {
  /* Compute the function at this point. */
  if i != 0 {
   y = Incbet(a, b, x)
  }
  if
 y < yl {
   x = x0
   y = yl
  } else if y > yh {
   x = x1
   y = yh
  } else if y < y0 {
   x0 = x
   yl = y
  } else {
   x1 = x
   yh = y
  }
  if x == 1.0 || x == 0.0 {
   break
  }
  /* Compute the derivative of the function at this point. */
  d = (a-1.0)*math.Log(x) + (b-1.0)*math.Log(1.0-x) + lgm
  if d < minLog {
   goto done
  }
  if d > maxLog {
   break
  }
  d = math.Exp(d)
  /* Compute the step to the next approximation of x. */
  d = (y - y0) / d
  xt = x - d
  if xt <= x0 {
   y = (x - x0) / (x1 - x0)
```

```
   xt = x0 + 0.5*y*(x-x0)
   if xt <= 0.0 {
    break
   }
  }
  if xt >= x1 {
   y = (x1 - x) / (x1 - x0)
   xt = x1 - 0.5*y*(x1-x)
   if xt >= 1.0 {
    break
   }
  }
  x = xt
  if math.Abs(d/x) < 128.0*machEp {
   goto done
  }
 }
 /* Did not converge.  */
 dithresh = 256.0 * machEp
 goto ihalve

done:

 if rflg > 0 {
  if x <= machEp {
   x = 1.0 - machEp
  } else {
   x = 1.0 - x
  }
 }
 return (x)
}

func lgam(a float64) float64 {
 lg, _ := math.Lgamma(a)
 return
 lg
}
graph{{stri}stri{stri}}
Graph{DIGRAP{DIGRAP}}
graph{Subgra0}
graph{{dig0{{{dig0{{dig0}}}dig0}}}}
// SPDX-License-Identifier: Unlicense OR MIT

package window

import (
 "unsafe"
```

```
 "gioui.org/app/internal/egl"
)

type context struct {
 win *window
 *egl.Context
}

func (w *window) NewContext() (Context, error) {
 disp := egl.NativeDisplayType(unsafe.Pointer(w.HDC()))
 ctx, err := egl.NewContext(disp)
 if err != nil {
  return nil, err
 }
 return &context{win: w, Context: ctx}, nil
}

func (c *context) Release() {
 if c.Context != nil {
  c.Context.Release()
  c.Context = nil
 }
}

func (c *context) MakeCurrent() error {
 c.Context.ReleaseSurface()
 win, width, height := c.win.HWND()
 eglSurf := egl.NativeWindowType(win)
 if err := c.Context.CreateSurface(eglSurf, width, height); err != nil {
  return err
 }
 if err := c.Context.MakeCurrent(); err != nil {
  return err
 }
 c.Context.EnableVSync(true)
 return nil
}

func (c *context) Lock() {}

func (c *context) Unlock() {}
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// license that can be found in the LICENSE file.

package testlapack
```

```
import (
 "fmt"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/floats"
 "gonum.org/v1/gonum/lapack"
)

type Dgeconer interface {
 Dgecon(norm lapack.MatrixNorm, n int, a []float64, lda int, anorm float64, work []float64, iwork []int) float64

 Dgetrier
 Dlanger
}

func DgeconTest(t *testing.T, impl Dgeconer) {
 rnd := rand.New(rand.NewSource(1))
 for _, n := range []int{0, 1, 2, 3, 4, 5, 10, 50} {
  for _, lda := range []int{max(1, n), n + 3} {
   dgeconTest(t, impl, rnd, n, lda)
  }
 }
}

func dgeconTest(t *testing.T, impl Dgeconer, rnd *rand.Rand, n, lda int) {
 const ratioThresh = 10

 // Generate a random square matrix A with elements uniformly in [-1,1).
 a := make([]float64, max(0, (n-1)*lda+n))
 for i := range a {
  a[i] = 2*rnd.Float64() - 1
 }

 // Allocate work slices.
 iwork := make([]int,
 n)
 work := make([]float64, max(1, 4*n))

 // Compute the LU factorization of A.
 aFac := make([]float64, len(a))
 copy(aFac, a)
 ipiv := make([]int, n)
 ok := impl.Dgetrf(n, n, aFac, lda, ipiv)
 if !ok {
  t.Fatalf("n=%v,lda=%v: bad matrix, Dgetrf failed", n, lda)
 }
```

```
 aFacCopy := make([]float64, len(aFac))
 copy(aFacCopy, aFac)

 // Compute the inverse A^{-1} from the LU factorization.
 aInv := make([]float64, len(aFac))
 copy(aInv, aFac)
 ok = impl.Dgetri(n, aInv, lda, ipiv, work, len(work))
 if !ok {
  t.Fatalf("n=%v,lda=%v: bad matrix, Dgetri failed", n, lda)
 }

 for _, norm := range []lapack.MatrixNorm{lapack.MaxColumnSum, lapack.MaxRowSum} {
  name := fmt.Sprintf("norm%v,n=%v,lda=%v", string(norm), n, lda)

  // Compute the norm of A and A^{-1}.
  aNorm := impl.Dlange(norm, n, n, a, lda, work)
  aInvNorm := impl.Dlange(norm, n, n, aInv, lda, work)

  // Compute a good estimate of the condition number
  //  rcondWant := 1/(norm(A) * norm(inv(A)))
  rcondWant := 1.0
  if aNorm
 > 0 && aInvNorm > 0 {
   rcondWant = 1 / aNorm / aInvNorm
  }

  // Compute an estimate of rcond using the LU factorization and Dgecon.
  rcondGot := impl.Dgecon(norm, n, aFac, lda, aNorm, work, iwork)
  if !floats.Equal(aFac, aFacCopy) {
   t.Errorf("%v: unexpected modification of aFac", name)
  }

  ratio := rCondTestRatio(rcondGot, rcondWant)
  if ratio >= ratioThresh {
   t.Errorf("%v: unexpected value of rcond; got=%v, want=%v (ratio=%v)",
    name, rcondGot, rcondWant, ratio)
  }
 }
}
graph{{{{{{Stricy}}Stricy}{Stricy}}Stricy}}
graph{{NOD{NOD{NOD}NOD}}NOD}
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// Package hyperdual provides the hyperdual numeric type and functions. Hyperdual
// numbers are an extension of the real numbers in the form a+b+b+d where
// ^2=0 and ^2=0, but 0, 0 and 0.
```

```
//
// See https://doi.org/10.2514/6.2011-886 and http://adl.stanford.edu/hyperdual/ for
// details of their properties and uses.
package hyperdual // imports "gonum.org/v1/gonum/num/hyperdual"

// TODO(kortschak): Handle special cases properly.
//  - Pow
# Gonum integrate
[![GoDoc](https://godoc.org/gonum.org/v1/gonum/integrate?status.svg)](https://godoc.org/gonum.org/v1/gonum/int
egrate)

Package integrate provides numerical evaluation of definite integrals of single-variable functions for the Go
programming language.
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package distuv

import (
 "sort"
 "testing"

 "golang.org/x/exp/rand"
 "gonum.org/v1/gonum/floats"
)

func TestUniformProb(t *testing.T) {
 for _, test := range []struct {
  min, max, x, want float64
 }{
  {0, 1, 1, 1},
  {2, 4, 0, 0},
  {2, 4, 5, 0},
  {2, 4, 3, 0.5},
  {0, 100, 1, 0.01},
 } {
  pdf := Uniform{test.min, test.max, nil}.Prob(test.x)
  if !floats.EqualWithinAbsOrRel(pdf, test.want, 1e-15, 1e-15) {
   t.Errorf("Pdf mismatch, x = %v, min = %v, max = %v. Got %v, want %v", test.x, test.min, test.max, pdf, test.want)
  }
 }
}

func TestUniformCDF(t *testing.T) {
 for _, test := range []struct {
  min, max, x, want float64
 }{
```

```
  {0, 1, 1, 1},
  {0, 100, 100, 1},
  {0, 100, 0, 0},
  {0, 100, 50, 0.5},
  {0, 50, 10, 0.2},
 } {
  cdf := Uniform{test.min, test.max, nil}.CDF(test.x)
  if !floats.EqualWithinAbsOrRel(cdf, test.want,
 1e-15, 1e-15) {
   t.Errorf("CDF mismatch, x = %v, min = %v, max = %v. Got %v, want %v", test.x, test.min, test.max, cdf, test.want)
  }
 }
}

func TestUniform(t *testing.T) {
 src := rand.New(rand.NewSource(1))
 for i, b := range []Uniform{
  {1, 2, src},
  {0, 100, src},
  {50, 60, src},
 } {
  testUniform(t, b, i)
 }
}

func testUniform(t *testing.T, u Uniform, i int) {
 const (
  tol  = 1e-2
  n    = 1e5
  bins = 50
 )
 x := make([]float64, n)
 generateSamples(x, u)
 sort.Float64s(x)

 testRandLogProbContinuous(t, i, 0, x, u, tol, bins)
 checkMean(t, i, x, u, tol)
 checkVarAndStd(t, i, x, u, tol)
 checkExKurtosis(t, i, x, u, 7e-2)
 checkProbContinuous(t, i, x, u, 1e-3)
 checkQuantileCDFSurvival(t, i, x, u, 1e-2)
}
graph{"\\""\\""\\""\\""\\""\\""\\""\""""\\""\\"}
//** github.com/dchest/passwordcheck@v0.0.0-20140527112020-b2ea14b685bb **//

{{Types "CC0-1.0"}}
```

Go package written in 2014 by Dmitry Chestnykh.

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This package is based on passwdqc.
http://www.openwall.com/passwdqc/

passwdqc license:

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$Owl: Owl/packages/passwdqc/passwdqc/LICENSE,v 1.8 2013/04/24 02:01:43 solar Exp $
graph{{{{GRa{GRi}}}}GRa}
graph{{Str_}Str_}
graph{di_{di_}{di_{di_}}}
Graph{{{{subgra_}{subgra_}}subgra_}}
graph{{Su_{Su_{Su_{Su_}{Su_}}}}}
graph{{{ED8}}ED8{{{{ED8}}ED8{ED8}}}}
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graph{{{gra_{}gra_{}gra_}}}
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```
graph{{{{____H___P_Z}}__{__O_J_Y__L___J__I}}}
graph{GRAP0{GRAP1}GRAP9}
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package astx_test

import (
 "bytes"
 "io/ioutil"
 "testing"

 "gonum.org/v1/gonum/graph/formats/dot"
)

func TestParseFile(t *testing.T) {
 golden := []struct {
  in  string
  out string
 }{
  {in: "../testdata/empty.dot"},
  {in: "../testdata/graph.dot"},
  {in: "../testdata/digraph.dot"},
  {in: "../testdata/strict.dot"},
  {in: "../testdata/multi.dot"},
  {in: "../testdata/named_graph.dot"},
  {in: "../testdata/node_stmt.dot"},
  {in: "../testdata/edge_stmt.dot"},
  {in: "../testdata/attr_stmt.dot"},
  {in: "../testdata/attr.dot"},
  {
   in:  "../testdata/subgraph.dot",
   out: "../testdata/subgraph.golden",
  },
  {
   in:
  "../testdata/semi.dot",
   out: "../testdata/semi.golden",
  },
  {
   in:  "../testdata/empty_attr.dot",
```

```
  out: "../testdata/empty_attr.golden",
  },
  {
  in:  "../testdata/attr_lists.dot",
  out: "../testdata/attr_lists.golden",
  },
  {
  in:  "../testdata/attr_sep.dot",
  out: "../testdata/attr_sep.golden",
  },
  {in: "../testdata/subgraph_vertex.dot"},
  {in: "../testdata/port.dot"},
  {in: "../testdata/quoted_id.dot"},
  {
  in:  "../testdata/backslash_newline_id.dot",
  out: "../testdata/backslash_newline_id.golden",
  },
 }
 for _, g := range golden {
  file, err := dot.ParseFile(g.in)
  if err != nil {
   t.Errorf("%q: unable to parse file; %v", g.in, err)
   continue
  }
  // If no output path is specified, the input is already golden.
  out := g.in
  if len(g.out) > 0 {
   out = g.out
  }
  buf, err := ioutil.ReadFile(out)
  if err != nil {
   t.Errorf("%q: unable to read file; %v", g.in, err)
   continue
  }
  got := file.String()
  // Remove trailing newline.
  want
 := string(bytes.TrimSpace(buf))
  if got != want {
   t.Errorf("%q: graph mismatch; expected `%s`, got `%s`", g.in, want, got)
  }
 }
}
graph{{rr}}
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```

```
package f64

import (
 "fmt"
 "testing"
)

var uniScal = []int64{1, 3, 10, 30, 1e2, 3e2, 1e3, 3e3, 1e4, 3e4}

func BenchmarkScalUnitary(t *testing.B) {
 tstName := "ScalUnitary"
 for _, ln := range uniScal {
  t.Run(fmt.Sprintf("%s-%d", tstName, ln), func(b *testing.B) {
   b.SetBytes(64 * ln)
   x := x[:ln]
   b.ResetTimer()
   for i := 0; i < b.N; i++ {
    ScalUnitary(a, x)
   }
  })
 }
}

func BenchmarkScalUnitaryTo(t *testing.B) {
 tstName := "ScalUnitaryTo"
 for _, ln := range uniScal {
  t.Run(fmt.Sprintf("%s-%d", tstName, ln), func(b *testing.B) {
   b.SetBytes(int64(64 * ln))
   x, y := x[:ln], y[:ln]
   b.ResetTimer()
   for i := 0; i < b.N; i++ {
    ScalUnitaryTo(y, a, x)
   }
  })
 }
}

var incScal = []struct {
 len uintptr
 inc []int
}{
 {1, []int{1}},
 {3, []int{1, 2, 4, 10}},
 {10, []int{1, 2, 4, 10}},
 {30, []int{1,
 2, 4, 10}},
 {1e2, []int{1, 2, 4, 10}},
 {3e2, []int{1, 2, 4, 10}},
```

```
 {1e3, []int{1, 2, 4, 10}},
 {3e3, []int{1, 2, 4, 10}},
 {1e4, []int{1, 2, 4, 10}},
}

func BenchmarkScalInc(t *testing.B) {
 tstName := "ScalInc"
 for _, tt := range incScal {
  for _, inc := range tt.inc {
   t.Run(fmt.Sprintf("%s-%d-inc(%d)", tstName, tt.len, inc), func(b *testing.B) {
    b.SetBytes(int64(64 * tt.len))
    tstInc := uintptr(inc)
    for i := 0; i < b.N; i++ {
     ScalInc(a, x, uintptr(tt.len), tstInc)
    }
   })
  }
 }
}

func BenchmarkScalIncTo(t *testing.B) {
 tstName := "ScalIncTo"
 for _, tt := range incScal {
  for _, inc := range tt.inc {
   t.Run(fmt.Sprintf("%s-%d-inc(%d)", tstName, tt.len, inc), func(b *testing.B) {
    b.SetBytes(int64(64 * tt.len))
    tstInc := uintptr(inc)
    for i := 0; i < b.N; i++ {
     ScalIncTo(z, tstInc, a, x, uintptr(tt.len), tstInc)
    }
   })
  }
 }
}
graph{{{gr}{gr}}gr{{gr}}gr{{gr}{gr}{gr}{gr}{gr}{}{gr}{gr}}gr{{gr}{gr}{gr}{gr}{gr}{gr}{gr}{gr}{gr}{gr}{gr
}{}{gr}{gr}}gr{{gr}{gr}{gr}{gr}{gr}{gr}{gr}gr}}
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DiGrapi}}}{{""}}}}}
graph{StriC{StriG}}
graph{{nod_}nod_{}nod_{nod_}}
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package testblas
```

```
import (
 "testing"

 "gonum.org/v1/gonum/blas"
)

type Zhprer interface {
 Zhpr(uplo blas.Uplo, n int, alpha float64, x []complex128, incX int, ap []complex128)
}

func ZhprTest(t *testing.T, impl Zhprer) {
 for tc, test := range zherTestCases {
  n := len(test.x)
  for _, uplo := range []blas.Uplo{blas.Upper, blas.Lower} {
   for _, incX := range []int{-11, -2, -1, 1, 2, 7} {
    x := makeZVector(test.x, incX)
    xCopy := make([]complex128, len(x))
    copy(xCopy, x)

    ap := zPack(uplo, n, test.a, n)
    impl.Zhpr(uplo, n, test.alpha, x, incX, ap)
    a := zUnpackAsHermitian(uplo, n, ap)

    var want []complex128
    if incX > 0 {
     want = makeZGeneral(test.want, n, n, max(1, n))
    } else {
     want = makeZGeneral(test.wantRev, n, n, max(1, n))
    }

    if !zsame(x, xCopy) {
     t.Errorf("Case
 %v (uplo=%v,incX=%v,alpha=%v): unexpected modification of x", tc, uplo, incX, test.alpha)
    }
    if !zsame(want, a) {
     t.Errorf("Case %v (uplo=%v,incX=%v,alpha=%v): unexpected result\nwant: %v\ngot:  %v", tc, uplo, incX,
test.alpha, want, a)
    }
   }
  }
 }
}
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package mathext
```

```
import "gonum.org/v1/gonum/mathext/internal/amos"

// AiryAi returns the value of the Airy function at z. The Airy function here,
// Ai(z), is one of the two linearly independent solutions to
//  y" - y*z = 0.
// See http://mathworld.wolfram.com/AiryFunctions.html for more detailed information.
func AiryAi(z complex128) complex128 {
 // id specifies the order of the derivative to compute,
 // 0 for the function itself and 1 for the derivative.
 // kode specifies the scaling option. See the function
 // documentation for the exact behavior.
 id := 0
 kode := 1
 air, aii, _, _ := amos.Zairy(real(z), imag(z), id, kode)
 return complex(air, aii)
}

// AiryAiDeriv returns the value of the derivative of the Airy function at z. The
// Airy function here, Ai(z), is one of the two linearly independent solutions to
//
  y" - y*z = 0.
// See http://mathworld.wolfram.com/AiryFunctions.html for more detailed information.
func AiryAiDeriv(z complex128) complex128 {
 // id specifies the order of the derivative to compute,
 // 0 for the function itself and 1 for the derivative.
 // kode specifies the scaling option. See the function
 // documentation for the exact behavior.
 id := 1
 kode := 1
 air, aii, _, _ := amos.Zairy(real(z), imag(z), id, kode)
 return complex(air, aii)
}
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package gonum

import (
 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
)

// Dlauum computes the product
//  U * U  if uplo is blas.Upper
//  L * L  if uplo is blas.Lower
// where U or L is stored in the upper or lower triangular part of A.
```

```
// Only the upper or lower triangle of the result is stored, overwriting
// the corresponding factor in A.
func (impl Implementation) Dlauum(uplo blas.Uplo, n int, a []float64, lda int) {
 switch {
 case uplo != blas.Upper && uplo != blas.Lower:
  panic(badUplo)
 case n < 0:
  panic(nLT0)
 case lda < max(1, n):
  panic(badLdA)
 }

 // Quick return if possible.
 if n == 0 {
  return
 }

 if len(a) < (n-1)*lda+n {
  panic(shortA)
 }

 // Determine the block size.
 opts := "U"
 if uplo == blas.Lower {
  opts = "L"
 }
 nb := impl.Ilaenv(1, "DLAUUM", opts, n, -1, -1, -1)

 if nb <=
 1 || n <= nb {
  // Use unblocked code.
  impl.Dlauu2(uplo, n, a, lda)
  return
 }

 // Use blocked code.
 bi := blas64.Implementation()
 if uplo == blas.Upper {
  // Compute the product U*U.
  for i := 0; i < n; i += nb {
   ib := min(nb, n-i)
   bi.Dtrmm(blas.Right, blas.Upper, blas.Trans, blas.NonUnit,
    i, ib, 1, a[i*lda+i:], lda, a[i:], lda)
   impl.Dlauu2(blas.Upper, ib, a[i*lda+i:], lda)
   if n-i-ib > 0 {
    bi.Dgemm(blas.NoTrans, blas.Trans, i, ib, n-i-ib,
     1, a[i+ib:], lda, a[i*lda+i+ib:], lda, 1, a[i:], lda)
    bi.Dsyrk(blas.Upper, blas.NoTrans, ib, n-i-ib,
```

```
     1, a[i*lda+i+ib:], lda, 1, a[i*lda+i:], lda)
    }
   }
  } else {
   // Compute the product L*L.
   for i := 0; i < n; i += nb {
    ib := min(nb, n-i)
    bi.Dtrmm(blas.Left, blas.Lower, blas.Trans, blas.NonUnit,
     ib, i, 1, a[i*lda+i:], lda, a[i*lda:], lda)
    impl.Dlauu2(blas.Lower, ib, a[i*lda+i:], lda)
    if n-i-ib > 0 {
     bi.Dgemm(blas.Trans, blas.NoTrans, ib, i, n-i-ib,
      1, a[(i+ib)*lda+i:], lda, a[(i+ib)*lda:],
  lda, 1, a[i*lda:], lda)
     bi.Dsyrk(blas.Lower, blas.Trans, ib, n-i-ib,
      1, a[(i+ib)*lda+i:], lda, 1, a[i*lda+i:], lda)
    }
   }
  }
}
graph{"\\"{"\\\"}}
graph{{{{{{{subGn}{subGn}subGc{{{{subGn}subGc}}}}}}}}}
graph{{Ea}{Ea}{Ea}{Ea}{Ea}{Ea}}
graph{<< astx.AppendAttrList(X[0], X[2]) >>}
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package iterator_test

import (
 "reflect"
 "testing"

 "gonum.org/v1/gonum/graph"
 "gonum.org/v1/gonum/graph/iterator"
 "gonum.org/v1/gonum/graph/simple"
)

type line struct{ f, t int }

func (l line) From() graph.Node         { return simple.Node(l.f) }
func (l line) To() graph.Node           { return simple.Node(l.t) }
func (l line) ReversedLine() graph.Line { return line{f: l.t, t: l.f} }
func (l line) ID() int64                { return 1 }

var orderedLinesTests = []struct {
 lines []graph.Line
```

```
}{
 {lines: nil},
 {lines: []graph.Line{line{f: 1, t: 2}}},
 {lines: []graph.Line{line{f: 1, t: 2}, line{f: 2, t: 3}, line{f: 3, t: 4}, line{f: 4, t: 5}}},
 {lines: []graph.Line{line{f: 5, t: 4}, line{f: 4, t: 3}, line{f: 3, t: 2}, line{f: 2, t: 1}}},
}

func TestOrderedLinesIterate(t *testing.T) {
 for _, test := range orderedLinesTests
 {
  it := iterator.NewOrderedLines(test.lines)
  for i := 0; i < 2; i++ {
   if it.Len() != len(test.lines) {
    t.Errorf("unexpected iterator length for round %d: got:%d want:%d", i, it.Len(), len(test.lines))
   }
   var got []graph.Line
   for it.Next() {
    got = append(got, it.Line())
   }
   want := test.lines
   if !reflect.DeepEqual(got, want) {
    t.Errorf("unexpected iterator output for round %d: got:%#v want:%#v", i, got, want)
   }
   it.Reset()
  }
 }
}

func TestOrderedLinesSlice(t *testing.T) {
 for _, test := range orderedLinesTests {
  it := iterator.NewOrderedLines(test.lines)
  for i := 0; i < 2; i++ {
   got := it.LineSlice()
   want := test.lines
   if !reflect.DeepEqual(got, want) {
    t.Errorf("unexpected iterator output for round %d: got:%#v want:%#v", i, got, want)
   }
   it.Reset()
  }
 }
}

type weightedLine struct {
 f, t int
 w    float64
}

func (l weightedLine) From() graph.Node         { return simple.Node(l.f) }
```

```
func (l weightedLine) To() graph.Node
        { return simple.Node(l.t) }
func (l weightedLine) ReversedLine() graph.Line { l.f, l.t = l.t, l.f; return l }
func (l weightedLine) Weight() float64        { return l.w }
func (l weightedLine) ID() int64              { return 1 }

var orderedWeightedLinesTests = []struct {
 lines []graph.WeightedLine
}{
 {lines: nil},
 {lines: []graph.WeightedLine{weightedLine{f: 1, t: 2, w: 1}}},
 {lines: []graph.WeightedLine{weightedLine{f: 1, t: 2, w: 1}, weightedLine{f: 2, t: 3, w: 2}, weightedLine{f: 3, t: 4,
w: 3}, weightedLine{f: 4, t: 5, w: 4}}},
 {lines: []graph.WeightedLine{weightedLine{f: 5, t: 4, w: 4}, weightedLine{f: 4, t: 3, w: 3}, weightedLine{f: 3, t: 2,
w: 2}, weightedLine{f: 2, t: 1, w: 1}}},
}

func TestOrderedWeightedLinesIterate(t *testing.T) {
 for _, test := range orderedWeightedLinesTests {
  it := iterator.NewOrderedWeightedLines(test.lines)
  for i := 0; i < 2; i++ {
   if it.Len() != len(test.lines) {
    t.Errorf("unexpected iterator length for round
 %d: got:%d want:%d", i, it.Len(), len(test.lines))
   }
   var got []graph.WeightedLine
   for it.Next() {
    got = append(got, it.WeightedLine())
   }
   want := test.lines
   if !reflect.DeepEqual(got, want) {
    t.Errorf("unexpected iterator output for round %d: got:%#v want:%#v", i, got, want)
   }
   it.Reset()
  }
 }
}

func TestOrderedWeightedLinesSlice(t *testing.T) {
 for _, test := range orderedWeightedLinesTests {
  it := iterator.NewOrderedWeightedLines(test.lines)
  for i := 0; i < 2; i++ {
   got := it.WeightedLineSlice()
   want := test.lines
   if !reflect.DeepEqual(got, want) {
    t.Errorf("unexpected iterator output for round %d: got:%#v want:%#v", i, got, want)
   }
   it.Reset()
```

```
  }
 }
}
graph{{DigV}{DigV}{DigV}DigP}
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// Package spatial provides spatial statistical functions.
package spatial // import "gonum.org/v1/gonum/stat/spatial"
graph{diG}
graph{diG{diG{{{diG}}}diG{diG}{diG{diG}{diG{diG}{diG}{diG}}}diG{diG}{diG{diG}{diG}{diG}}}}
graph{{{ED8}}ED8{{{{ED8}{ED8}{ED8}{ED8}}ED8{}{ED8}}}}
graph{{{DiGrap}}}
graph{{{{st}}st}st}
graph{<<e=======>>}
graph{e[l=<<"><"></></></></></></></></></></"></></></></></></></></></></>>]}
graph{{{DIG}DIG}{DIG{DIG}DIG}}
/**/graph""{e[e=""l="\N"e=""h=""t=""r=""][r=""]/**/""--""--""--""--""--""--""--""--""--""--""--""--""--""/**/""--
""[n=2.5]""--""[n=2.5]""--""[n=2.5]""--""[n=2.5]""--""[n=2.5]""--""[n=2.5]""--""[n=2.5]}
graph{{{{su}{su}su}{su}su{su}su}{su}{su}}
graph{ea{{ea{ea""ea}ea}ea}}
digraph {er_{t_t_t_t_t_->t_r_{l""{t_->t_[n=2]k}t_->t_t_->t_{t_->t_[n=2]k}t_->t_t_->t_}}t_->t_t_->t_t_->t_}
graph{{ST6}{ST6}{ST6{ST6{ST6}ST6}{ST6{ST6}ST6}ST6}}
graph{-.5}
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package math32

import "math"

// Signbit returns true if x is negative or negative zero.
func Signbit(x float32) bool {
 return math.Float32bits(x)&(1<<31) != 0
}
graph{{{{DiGu}{DiGu}{DiGu}{DiGu}DiGv}{DiGu}}}
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(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
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graph{{DIR}{DIR}}
graph{{DG{DG}{DG}{DG{DG}}{{DG}}}{DG{DG}DG{DG}DG{{}}{DG{{{{}}{}{}}{}}DG}}{DG{DG}DG
{{DG}}b}}
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// license that can be found in the LICENSE file

```
package floats_test

import (
 "bufio"
 "fmt"
 "log"
 "strings"

 "gonum.org/v1/gonum/floats"
 "gonum.org/v1/gonum/stat"
)

func ExampleParseWithNA() {
 // Calculate the mean of a list of numbers
 // ignoring missing values.
 const data = `6
missing
4
`
```

```
 var vals, weights []float64
 sc := bufio.NewScanner(strings.NewReader(data))
 for sc.Scan() {
  v, w, err := floats.ParseWithNA(sc.Text(), "missing")
  if err != nil {
   log.Fatal(err)
  }
  vals = append(vals, v)
  weights = append(weights, w)
 }
 err := sc.Err()
 if err != nil {
  log.Fatal(err)
 }
 fmt.Println(stat.Mean(vals, weights))

 // Output:
 // 5
}
```

github.com/ajstarks/svgo v0.0.0-20180226025133-644b8db467af
h1:wVe6/Ea46ZMeNkQjjBW6xcqyQA/j5e0D6GytH95g0gQ=
github.com/ajstarks/svgo v0.0.0-20180226025133-644b8db467af/go.mod
h1:K08gAheRH3/J6wwsYMMT4xOr94bZjxIelGM0+d/wbFw=
github.com/fogleman/gg v1.2.1-0.20190220221249-0403632d5b90
h1:WXb3TSNmHp2vHoCroCIB1foO/yQ36swABL8aOVeDpgg=
github.com/fogleman/gg v1.2.1-0.20190220221249-0403632d5b90/go.mod
h1:R/bRT+9gY/C5z7JzPU0zXsXHKM4/ayA+zqcVNZzPa1k=
github.com/golang/freetype v0.0.0-20170609003504-e2365dfdc4a0
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github.com/golang/freetype v0.0.0-20170609003504-e2365dfdc4a0/go.mod
h1:E/TSTwGwJL78qG/PmXZO1EjYhfJinVAhrmmHX6Z8B9k=
github.com/jung-kurt/gofpdf v1.0.3-0.20190309125859-24315acbbda5
h1:PJr+ZMXIecYc1Ey2zucXdR73SMBtgjPgwa31099IMv0=
github.com/jung-kurt/gofpdf v1.0.3-0.20190309125859-24315acbbda5/go.mod
h1:7Id9E/uU8ce6rXgefFLlgrJj/GYY22cpxn+r32jIOes=
golang.org/x/exp v0.0.0-20180321215751-8460e604b9de/go.mod
h1:CJ0aWSM057203Lf6IL+f9T1iT9GByDxfZKAQTCR3kQA=
golang.org/x/exp
v0.0.0-20180807140117-3d87b88a115f/go.mod h1:CJ0aWSM057203Lf6IL+f9T1iT9GByDxfZKAQTCR3kQA=
golang.org/x/exp v0.0.0-20190125153040-c74c464bbbf2
h1:y102fOLFqhV41b+4GPiJoa0k/x+pJcEi2/HB1Y5T6fU=
golang.org/x/exp v0.0.0-20190125153040-c74c464bbbf2/go.mod
h1:CJ0aWSM057203Lf6IL+f9T1iT9GByDxfZKAQTCR3kQA=
golang.org/x/image v0.0.0-20180708004352-c73c2afc3b81
h1:00VmoueYNlNz/aHIilyyQz/MHSqGoWJzpFv/HW8xpzI=
golang.org/x/image v0.0.0-20180708004352-c73c2afc3b81/go.mod
h1:ux5Hcp/YLpHSI86hEcLt0YII63i6oz57MZXIpbrjZUs=

golang.org/x/tools v0.0.0-20180525024113-a5b4c53f6e8b/go.mod
h1:n7NCudcB/nEzxVGmLbDWY5pfWTLqBcC2KZ6jyYvM4mQ=
golang.org/x/tools v0.0.0-20190206041539-40960b6deb8e
h1:Io7mpb+aUAGF0MKxbyQ7HQl1VgB+cL6ZJZUFaFNqVV4=
golang.org/x/tools v0.0.0-20190206041539-40960b6deb8e/go.mod
h1:n7NCudcB/nEzxVGmLbDWY5pfWTLqBcC2KZ6jyYvM4mQ=
gonum.org/v1/gonum v0.0.0-20180816165407-929014505bf4/go.mod
h1:Y+Yx5eoAFn32cQvJDxZx5Dpnq+c3wtXuadVZAcxbbBo=
gonum.org/v1/netlib v0.0.0-20190313105609-8cb42192e0e0
h1:OE9mWmgKkjJyEmDAAtGMPjXu+YNeGvK9VTSHY6+Qihc=
gonum.org/v1/netlib v0.0.0-20190313105609-8cb42192e0e0/go.mod
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gonum.org/v1/plot v0.0.0-20190515093506-e2840ee46a6b
h1:Qh4dB5D/WpoUUp3lSod7qgoyEHbDGPUWjIbnqdqqe1k=
gonum.org/v1/plot v0.0.0-20190515093506-e2840ee46a6b/go.mod
h1:Wt8AAjI+ypCyYX3nZBvf6cAIx93T+c/OS2HFAYskSZc=
rsc.io/pdf v0.1.1 h1:k1MczvYDUvJBe93bYd7wrZLLUEcLZAuF824/I4e5Xr4=
rsc.io/pdf v0.1.1/go.mod h1:n8OzWcQ6Sp37PL01nO98y4iUCRdTGarVfzxY20ICaU4=
graph{Stm Stm Stm Stm Stm Stm}
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package distmat

var badDim = "distmat: dimension mismatch"
graph{{SubGrM}SubGrK}
graph{digz{{digu}{digu}{""digu}{digu}{digu}{digu}{digu}}{{digz{{{digu}}}}digz}digz}
<?xml version="1.0" encoding="UTF-8"?>
<gexf xmlns="http://www.gexf.net/1.2draft" xmlns:viz="http://www.gexf.net/1.2draft/viz"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.gexf.net/1.2draft
http://www.gexf.net/1.2draft/gexf.xsd" version="1.2">
  <graph>
    <nodes>
      <node id="a" label="glossy">
   <viz:color r="239" g="173" b="66" a="0.6"/>
   <viz:position x="15.783598" y="40.109245" z="0.0"/>
   <viz:size value="2.0375757"/>
    </node>
    </nodes>
  </graph>
</gexf>
graph{{SubG}{SubG}{SubG{}{SubG}}{SubG{{SubG}{}}{{}}}}
graph{{ED_}ED_{ED_}ED}
graph{{{{{{{suG}}}suG}}suG{{{{suG}}}suG}}suG}
graph{SUBG{SUBG{SUBG}SUBG}}
graph{A[e=d,r=d;r=e]}

```
graph{{DIGRAP_}}
graph{diGh{diGo}}
graph{Strr-9Strr-9Strr-9Strr}
graph{{SUBGRZ{}SUBGRR}SUBGRZ}
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package gonum

import (
 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/lapack"
)

// Dorglq generates an mn matrix Q with orthonormal columns defined by the
// product of elementary reflectors as computed by Dgelqf.
//  Q = H_0 * H_1 * ... * H_{k-1}
// Dorglq is the blocked version of Dorgl2 that makes greater use of level-3 BLAS
// routines.
//
// len(tau) >= k, 0 <= k <= m, and 0 <= m <= n.
//
// work is temporary storage, and lwork specifies the usable memory length. At minimum,
// lwork >= m, and the amount of blocking is limited by the usable length.
// If lwork == -1, instead of computing Dorglq the optimal work length is stored
// into work[0].
//
// Dorglq will panic if the conditions on input values are not met.
//
// Dorglq is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dorglq(m,
 n, k int, a []float64, lda int, tau, work []float64, lwork int) {
 switch {
 case m < 0:
  panic(mLT0)
 case n < m:
  panic(nLTM)
 case k < 0:
  panic(kLT0)
 case k > m:
  panic(kGTM)
 case lda < max(1, n):
  panic(badLdA)
 case lwork < max(1, m) && lwork != -1:
  panic(badLWork)
 case len(work) < max(1, lwork):
  panic(shortWork)
```

```
}

if m == 0 {
 work[0] = 1
 return
}

nb := impl.Ilaenv(1, "DORGLQ", " ", m, n, k, -1)
if lwork == -1 {
 work[0] = float64(m * nb)
 return
}

switch {
case len(a) < (m-1)*lda+n:
 panic(shortA)
case len(tau) < k:
 panic(shortTau)
}

nbmin := 2 // Minimum block size
var nx int // Crossover size from blocked to unbloked code
iws := m   // Length of work needed
var ldwork int
if 1 < nb && nb < k {
 nx = max(0, impl.Ilaenv(3, "DORGLQ", " ", m, n, k, -1))
 if nx < k {
  ldwork = nb
  iws = m * ldwork
  if lwork < iws {
   nb = lwork / m
   ldwork = nb
   nbmin = max(2, impl.Ilaenv(2, "DORGLQ", " ", m, n, k, -1))
  }
 }
}

var
ki, kk int
if nbmin <= nb && nb < k && nx < k {
 // The first kk rows are handled by the blocked method.
 ki = ((k - nx - 1) / nb) * nb
 kk = min(k, ki+nb)
 for i := kk; i < m; i++ {
  for j := 0; j < kk; j++ {
   a[i*lda+j] = 0
  }
 }
```

```
 }
 if kk < m {
  // Perform the operation on colums kk to the end.
  impl.Dorgl2(m-kk, n-kk, k-kk, a[kk*lda+kk:], lda, tau[kk:], work)
 }
 if kk > 0 {
  // Perform the operation on column-blocks
  for i := ki; i >= 0; i -= nb {
   ib := min(nb, k-i)
   if i+ib < m {
    impl.Dlarft(lapack.Forward, lapack.RowWise,
     n-i, ib,
     a[i*lda+i:], lda,
     tau[i:],
     work, ldwork)

    impl.Dlarfb(blas.Right, blas.Trans, lapack.Forward, lapack.RowWise,
     m-i-ib, n-i, ib,
     a[i*lda+i:], lda,
     work, ldwork,
     a[(i+ib)*lda+i:], lda,
     work[ib*ldwork:], ldwork)
   }
   impl.Dorgl2(ib, n-i, ib, a[i*lda+i:], lda, tau[i:], work)
   for l := i; l < i+ib; l++ {
    for j := 0; j < i; j++ {
     a[l*lda+j] = 0
    }
   }
  }
 }
 work[0]
 = float64(iws)
}
Graph{Di{Di}{Di{Di{Di}{Di{Di}Di}Di{Di}}Di}Di{Di}{Di{Di}Di}Di}
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package licenses

// Files we should ignore.
// Set of "modulePath filePath".
var ignoreFiles = map[string]bool{
 // We told Elias Naur to put a sentence about dual-licensing into his COPYING file.
 // We no longer need it (since we now accept both licenses), but it fails detection
 // so we have to ignore it.
 "gioui.org COPYING": true,
```

}
graph{{Digp{Digp{Digp{Digp}}}Digg}}
graph{n_{n_}{n_}{n_}}
graph{{{{digraV}digraM}{digraV}digraU}}
graph{_[f=DiGr9]}
graph{{{{{{{{{SUBGRAD}}SUBGRAD}}SUBGRAL}}SUBGRAD}}}
Graph{subgrapA{{}subgrapA}{}{{subgrapA}{}}{{subgrapA}{{{{}}}}}{{}subgrapA}}
//** github.com/Tencent/bk-bcs@v0.0.0-20210107073425-12adaa1f349f **//

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---
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Written in 2011-2014 by Dmitry Chestnykh

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graph{{diGr_[diGr_=""diGr_=""]diGr_=diGr_;diGr_}diGr_[diGr_=""]diGr_=diGr_}
// +build aix darwin dragonfly freebsd linux netbsd openbsd solaris

package mem

import (
 "unsafe"

 "golang.org/x/sys/unix"
)

type slice struct {

```
 addr unsafe.Pointer
 len  int
 cap  int
}

func mmap(size uint) (unsafe.Pointer, error) {
 b, err := unix.Mmap(-1, 0, int(size), unix.PROT_READ|unix.PROT_WRITE,
unix.MAP_PRIVATE|unix.MAP_ANONYMOUS)
 if err != nil {
  return nil, err
 }
 sl := (*slice)(unsafe.Pointer(&b))
 return sl.addr, nil
}

func munmap(p unsafe.Pointer) error {
 size := int(((*header)(p)).size + szheader)
 b := *(*[]byte)(unsafe.Pointer(&slice{p, size, size}))
 return unix.Munmap(b)
}
graph{D5{D5{{D5}}D5{{D5}}}}
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// Package iterator provides node, edge and line iterators.
//
// The iterators provided satisfy the graph.Nodes, graph.Edges and
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package parser_test

import (
 "archive/zip"
 "bytes"
 "io/ioutil"
 "os"
 "testing"
```

```
 "gonum.org/v1/gonum/graph/formats/dot"
)

func TestParseFile(t *testing.T) {
 golden := []struct {
  in  string
  out string
 }{
  {in: "../testdata/empty.dot"},
  {in: "../testdata/graph.dot"},
  {in: "../testdata/digraph.dot"},
  {in: "../testdata/strict.dot"},
  {in: "../testdata/multi.dot"},
  {in: "../testdata/named_graph.dot"},
  {in: "../testdata/node_stmt.dot"},
  {in: "../testdata/edge_stmt.dot"},
  {in: "../testdata/attr_stmt.dot"},
  {in: "../testdata/attr.dot"},
  {
   in:  "../testdata/subgraph.dot",
   out: "../testdata/subgraph.golden",
  },
  {
   in:
  "../testdata/semi.dot",
   out: "../testdata/semi.golden",
  },
  {
   in:  "../testdata/empty_attr.dot",
   out: "../testdata/empty_attr.golden",
  },
  {
   in:  "../testdata/attr_lists.dot",
   out: "../testdata/attr_lists.golden",
  },
  {
   in:  "../testdata/attr_sep.dot",
   out: "../testdata/attr_sep.golden",
  },
  {in: "../testdata/subgraph_vertex.dot"},
  {in: "../testdata/port.dot"},
  {in: "../testdata/quoted_id.dot"},
  {
   in:  "../testdata/backslash_newline_id.dot",
   out: "../testdata/backslash_newline_id.golden",
  },
 }
```

```
 for _, g := range golden {
  file, err := dot.ParseFile(g.in)
  if err != nil {
   t.Errorf("%q: unable to parse file; %v", g.in, err)
   continue
  }
  // If no output path is specified, the input is already golden.
  out := g.in
  if len(g.out) > 0 {
   out = g.out
  }
  buf, err := ioutil.ReadFile(out)
  if err != nil {
   t.Errorf("%q: unable to read file; %v", g.in, err)
   continue
  }
  got := file.String()
  // Remove
 trailing newline.
  want := string(bytes.TrimSpace(buf))
  if got != want {
   t.Errorf("%q: graph mismatch; expected `%s`, got `%s`", g.in, want, got)
  }
 }
}

func TestParseFuzz(t *testing.T) {
 r, err := zip.OpenReader("../../fuzz/corpus.zip")
 if err != nil {
  if os.IsNotExist(err) {
   t.Skip("no corpus")
  }
  t.Fatalf("failed to open corpus: %v", err)
 }
 defer r.Close()

 for _, f := range r.File {
  rc, err := f.Open()
  if err != nil {
   t.Fatalf("failed to open %q: %v", f.Name, err)
  }
  func() {
   defer func() {
    p := recover()
    if p != nil {
     t.Errorf("unexpected panic parsing %q: %v", f.Name, p)
    }
   }()
```

```
  _, err = dot.Parse(rc)
  if err != nil {
   t.Errorf("unexpected error parsing %q: %v", f.Name, err)
  }
 }()
 rc.Close()
}
}

func TestParseError(t *testing.T) {
 golden := []struct {
  path string
  want string
 }{
  {
   path: "../testdata/error.dot",
   want: `Error in S30: INVALID(0,~), Pos(offset=13, line=2, column=7), expected one
 of: { } graphx ; -- -> node edge [ = subgraph : id `,
  },
 }
 for _, g := range golden {
  _, err := dot.ParseFile(g.path)
  if err == nil {
   t.Errorf("%q: expected error, got nil", g.path)
   continue
  }
  got := err.Error()
  if got != g.want {
   t.Errorf("%q: error mismatch; expected `%v`, got `%v`", g.path, g.want, got)
   continue
  }
 }
}
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// +build !noasm,!appengine,!safe

package f64

// L1Norm is
//  for _, v := range x {
//   sum += math.Abs(v)
//  }
//  return sum
func L1Norm(x []float64) (sum float64)
```

```
// L1NormInc is
//  for i := 0; i < n*incX; i += incX {
//   sum += math.Abs(x[i])
//  }
//  return sum
func L1NormInc(x []float64, n, incX int) (sum float64)

// AddConst is
//  for i := range x {
//   x[i] += alpha
//  }
func AddConst(alpha float64, x []float64)

// Add is
//  for i, v := range s {
//   dst[i] += v
//  }
func Add(dst, s []float64)

// AxpyUnitary is
//  for i, v := range x {
//   y[i] += alpha * v
//  }
func AxpyUnitary(alpha float64, x, y []float64)

// AxpyUnitaryTo is
//  for i, v := range x {
//   dst[i] = alpha*v + y[i]
//  }
func AxpyUnitaryTo(dst []float64, alpha float64, x, y []float64)

// AxpyInc is
//  for i := 0; i < int(n); i++
 {
//   y[iy] += alpha * x[ix]
//   ix += incX
//   iy += incY
//  }
func AxpyInc(alpha float64, x, y []float64, n, incX, incY, ix, iy uintptr)

// AxpyIncTo is
//  for i := 0; i < int(n); i++ {
//   dst[idst] = alpha*x[ix] + y[iy]
//   ix += incX
//   iy += incY
//   idst += incDst
//  }
```

```
func AxpyIncTo(dst []float64, incDst, idst uintptr, alpha float64, x, y []float64, n, incX, incY, ix, iy uintptr)

// CumSum is
//  if len(s) == 0 {
//   return dst
//  }
//  dst[0] = s[0]
//  for i, v := range s[1:] {
//   dst[i+1] = dst[i] + v
//  }
//  return dst
func CumSum(dst, s []float64) []float64

// CumProd is
//  if len(s) == 0 {
//   return dst
//  }
//  dst[0] = s[0]
//  for i, v := range s[1:] {
//   dst[i+1] = dst[i] * v
//  }
//  return dst
func CumProd(dst, s []float64) []float64

// Div is
//  for i, v := range s {
//   dst[i] /= v
//  }
func Div(dst, s []float64)

// DivTo is
//  for i, v := range s {
//   dst[i] = v / t[i]
//  }
//  return dst
func DivTo(dst, x, y []float64) []float64

//
 DotUnitary is
//  for i, v := range x {
//   sum += y[i] * v
//  }
//  return sum
func DotUnitary(x, y []float64) (sum float64)

// DotInc is
//  for i := 0; i < int(n); i++ {
//   sum += y[iy] * x[ix]
```

```
//   ix += incX
//   iy += incY
//  }
//  return sum
func DotInc(x, y []float64, n, incX, incY, ix, iy uintptr) (sum float64)

// L1Dist is
//  var norm float64
//  for i, v := range s {
//   norm += math.Abs(t[i] - v)
//  }
//  return norm
func L1Dist(s, t []float64) float64

// LinfDist is
//  var norm float64
//  if len(s) == 0 {
//   return 0
//  }
//  norm = math.Abs(t[0] - s[0])
//  for i, v := range s[1:] {
//   absDiff := math.Abs(t[i+1] - v)
//   if absDiff > norm || math.IsNaN(norm) {
//    norm = absDiff
//   }
//  }
//  return norm
func LinfDist(s, t []float64) float64

// ScalUnitary is
//  for i := range x {
//   x[i] *= alpha
//  }
func ScalUnitary(alpha float64, x []float64)

// ScalUnitaryTo is
//  for i, v := range x {
//   dst[i] = alpha * v
//  }
func ScalUnitaryTo(dst
 []float64, alpha float64, x []float64)

// ScalInc is
//  var ix uintptr
//  for i := 0; i < int(n); i++ {
//   x[ix] *= alpha
//   ix += incX
//  }
```

```
func ScalInc(alpha float64, x []float64, n, incX uintptr)

// ScalIncTo is
//  var idst, ix uintptr
//  for i := 0; i < int(n); i++ {
//   dst[idst] = alpha * x[ix]
//   ix += incX
//   idst += incDst
//  }
func ScalIncTo(dst []float64, incDst uintptr, alpha float64, x []float64, n, incX uintptr)

// Sum is
//  var sum float64
//  for i := range x {
//      sum += x[i]
//  }
func Sum(x []float64) float64
digraph{#->st3[l=""]st2->st9Rl=""]st2->st7[l=""]st2->st2[l=""]st0->st0[l=""]st0->st0[l=""]st1->st5[l=""]st1-
>st3[l=""]st1->st1[l=""]st0->st2[l=""]st0->st1[l=""]st0->st0[l="0/0"];
}
graph{{n_}{n_}{n_}}
graph{D5{{D5}}D5{{{D5}}D5{{D7{D5}}D5}{D7{D5}}D5}}
graph{i42{i42}}
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package quat

import (
 "testing"

 "gonum.org/v1/gonum/floats"
)

var invTests = []struct {
 q       Number
 wantNaN bool
}{
 {q: Number{Real: 1, Imag: 1, Jmag: 1, Kmag: 1}},
 {q: Number{Real: 3, Imag: -1, Jmag: 5, Kmag: -40}},
 {q: Number{Real: 1e6, Imag: -1e5, Jmag: 4, Kmag: -10}},
 {q: Number{Real: 0, Imag: 1, Jmag: 1, Kmag: 1}},
 {q: Number{Real: 1, Imag: 0, Jmag: 1, Kmag: 1}},
 {q: Number{Real: 1, Imag: 1, Jmag: 0, Kmag: 1}},
 {q: Number{Real: 1, Imag: 1, Jmag: 1, Kmag: 0}},
 {q: Number{}, wantNaN: true},
}
```

```
func TestInv(t *testing.T) {
 const tol = 1e-14
 for _, test := range invTests {
  got := Mul(test.q, Inv(test.q))
  if test.wantNaN {
   if !IsNaN(got) {
    t.Errorf("unexpected result for Mul(%v, Inv(%[1]v)): got:%v want:%v", test.q, got, NaN())
   }
   continue
  }
  if !(floats.EqualWithinAbsOrRel(got.Real, 1, tol,
 tol) && floats.EqualWithinAbsOrRel(Abs(got), 1, tol, tol)) {
   t.Errorf("unexpected result for Mul(%v, Inv(%[1]v)): got:%v want:%v", test.q, got, Number{Real: 1})
  }
 }
}
graph{{STRIA}}
graph{{{digra}digra{digra}{digra}digra{digra}}}
graph{U{xbzwysiquvttdsqvni{W}hmdae{Tupusdgcijyrynklbqubgraphptubgraph""Opttmtist""<< >>W}""}}
graph{{GrG{GrG{}GrC}GrG{}GrC}}
graph{{Grapu}Grapu{Grapu}Grapu}
graph{{{NOD0}NOD0{NOD0}}NOD0}
digraph{e{e}{k=e}{k=e}{k=e}{k=e}{k=e}{k=e}{k=e}-9-5-7-2-0-3-6->0-3-2-1-1-6-4->{}->{}-1-2-0-4-4-4-4-5-9-
9-4-5->{}-9-9-8-0-9-3-9-5-9-4-9-5->{}->{}-2-5-9-7-1-5-3-0-8-4-1}
graph{{{{Ed}Ed}Ed{Ed}}Ed}}
graph{STs{STe}STe}
graph{{GRAP}GRAP{{{GRAP}GRAP}}GRAP}
graph{{{ED8}}ED8}
graph{{stric9}{stric4}}
graph{subGrapr}
graph{Di{Di}}
graph{{GRAP}GRAP}
digraph{A:e->B:e->G:e}
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// license that can be found in the LICENSE file.

package c64

// ScalUnitary is
//  for i := range x {
//   x[i] *= alpha
//  }
func ScalUnitary(alpha complex64, x []complex64) {
 for i := range x {
  x[i] *= alpha
 }
```

```
}

// ScalUnitaryTo is
//  for i, v := range x {
//   dst[i] = alpha * v
//  }
func ScalUnitaryTo(dst []complex64, alpha complex64, x []complex64) {
 for i, v := range x {
  dst[i] = alpha * v
 }
}

// ScalInc is
//  var ix uintptr
//  for i := 0; i < int(n); i++ {
//   x[ix] *= alpha
//   ix += incX
//  }
func ScalInc(alpha complex64, x []complex64, n, incX uintptr) {
 var ix uintptr
 for i := 0; i < int(n); i++ {
  x[ix] *= alpha
  ix += incX
 }
}

// ScalIncTo is
//  var idst, ix uintptr
//  for i := 0; i < int(n); i++ {
//   dst[idst] = alpha * x[ix]
//   ix += incX
//   idst += incDst
//  }
func ScalIncTo(dst []complex64, incDst uintptr, alpha complex64, x
 []complex64, n, incX uintptr) {
 var idst, ix uintptr
 for i := 0; i < int(n); i++ {
  dst[idst] = alpha * x[ix]
  ix += incX
  idst += incDst
 }
}

// SscalUnitary is
//  for i, v := range x {
//   x[i] = complex(real(v)*alpha, imag(v)*alpha)
//  }
func SscalUnitary(alpha float32, x []complex64) {
```

```
 for i, v := range x {
  x[i] = complex(real(v)*alpha, imag(v)*alpha)
 }
}

// SscalInc is
//  var ix uintptr
//  for i := 0; i < int(n); i++ {
//   x[ix] = complex(real(x[ix])*alpha, imag(x[ix])*alpha)
//   ix += inc
//  }
func SscalInc(alpha float32, x []complex64, n, inc uintptr) {
 var ix uintptr
 for i := 0; i < int(n); i++ {
  x[ix] = complex(real(x[ix])*alpha, imag(x[ix])*alpha)
  ix += inc
 }
}
graph{{{su5}}su5}
graph{StR{StR{StR}StR{StR}StR{StR{StR}StR}StR}StR{StR{StR}StR}StR}StR{StR}}
graph{{{{{gJ{{{{{gO}}}}}}}}}}
graph{subN}
graph{{{Ea}{Ea}{Ea}{Ea}{Ea}{Ea}Ea}{Ea}{Ea}{Ea}{Ea}{Ea}}
Graph{{{{subu}subr}{subu}subr}{subu}{subu}}
graph{Edg2{{{Edg2}}Edg2}}
graph{A[r=d;]}
graph{{St_}{St_}St_}
graph{8.185582076609134674072265625791015625}
graph{{STRIR}}
digraph {a:0b:1}
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// license that can be found in the LICENSE file.

package gonum

import (
 "testing"

 "gonum.org/v1/gonum/blas/testblas"
)

func BenchmarkDgemvSmSmNoTransInc1(b *testing.B) {
 testblas.DgemvBenchmark(b, impl, NT, Sm, Sm, 1, 1)
}

func BenchmarkDgemvSmSmNoTransIncN(b *testing.B) {
 testblas.DgemvBenchmark(b, impl, NT, Sm, Sm, 2, 3)
```

```
}

func BenchmarkDgemvSmSmTransInc1(b *testing.B) {
 testblas.DgemvBenchmark(b, impl, T, Sm, Sm, 1, 1)
}

func BenchmarkDgemvSmSmTransIncN(b *testing.B) {
 testblas.DgemvBenchmark(b, impl, T, Sm, Sm, 2, 3)
}

func BenchmarkDgemvMedMedNoTransInc1(b *testing.B) {
 testblas.DgemvBenchmark(b, impl, NT, Med, Med, 1, 1)
}

func BenchmarkDgemvMedMedNoTransIncN(b *testing.B) {
 testblas.DgemvBenchmark(b, impl, NT, Med, Med, 2, 3)
}

func BenchmarkDgemvMedMedTransInc1(b *testing.B) {
 testblas.DgemvBenchmark(b, impl, T, Med, Med, 1, 1)
}

func BenchmarkDgemvMedMedTransIncN(b
 *testing.B) {
 testblas.DgemvBenchmark(b, impl, T, Med, Med, 2, 3)
}

func BenchmarkDgemvLgLgNoTransInc1(b *testing.B) {
 testblas.DgemvBenchmark(b, impl, NT, Lg, Lg, 1, 1)
}

func BenchmarkDgemvLgLgNoTransIncN(b *testing.B) {
 testblas.DgemvBenchmark(b, impl, NT, Lg, Lg, 2, 3)
}

func BenchmarkDgemvLgLgTransInc1(b *testing.B) {
 testblas.DgemvBenchmark(b, impl, T, Lg, Lg, 1, 1)
}

func BenchmarkDgemvLgLgTransIncN(b *testing.B) {
 testblas.DgemvBenchmark(b, impl, T, Lg, Lg, 2, 3)
}

func BenchmarkDgemvLgSmNoTransInc1(b *testing.B) {
 testblas.DgemvBenchmark(b, impl, NT, Lg, Sm, 1, 1)
}

func BenchmarkDgemvLgSmNoTransIncN(b *testing.B) {
```

```
 testblas.DgemvBenchmark(b, impl, NT, Lg, Sm, 2, 3)
}

func BenchmarkDgemvLgSmTransInc1(b *testing.B) {
 testblas.DgemvBenchmark(b, impl, T, Lg, Sm, 1, 1)
}

func BenchmarkDgemvLgSmTransIncN(b *testing.B) {
 testblas.DgemvBenchmark(b, impl, T, Lg, Sm, 2, 3)
}

func BenchmarkDgemvSmLgNoTransInc1(b *testing.B) {
 testblas.DgemvBenchmark(b,
 impl, NT, Sm, Lg, 1, 1)
}

func BenchmarkDgemvSmLgNoTransIncN(b *testing.B) {
 testblas.DgemvBenchmark(b, impl, NT, Sm, Lg, 2, 3)
}

func BenchmarkDgemvSmLgTransInc1(b *testing.B) {
 testblas.DgemvBenchmark(b, impl, T, Sm, Lg, 1, 1)
}

func BenchmarkDgemvSmLgTransIncN(b *testing.B) {
 testblas.DgemvBenchmark(b, impl, T, Sm, Lg, 2, 3)
}
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// license that can be found in the LICENSE file.

// +build !amd64 noasm appengine safe

package c64

// AxpyUnitary is
//  for i, v := range x {
//   y[i] += alpha * v
//  }
func AxpyUnitary(alpha complex64, x, y []complex64) {
 for i, v := range x {
  y[i] += alpha * v
 }
}

// AxpyUnitaryTo is
//  for i, v := range x {
//   dst[i] = alpha*v + y[i]
```

```
//  }
func AxpyUnitaryTo(dst []complex64, alpha complex64, x, y []complex64) {
 for i, v := range x {
  dst[i] = alpha*v + y[i]
 }
}

// AxpyInc is
//  for i := 0; i < int(n); i++ {
//   y[iy] += alpha * x[ix]
//   ix += incX
//   iy += incY
//  }
func AxpyInc(alpha complex64, x, y []complex64, n, incX, incY, ix, iy uintptr) {
 for i := 0; i < int(n); i++ {
  y[iy] += alpha * x[ix]
  ix += incX
  iy += incY
 }
}

// AxpyIncTo is
//  for i := 0; i < int(n); i++ {
//   dst[idst] = alpha*x[ix] + y[iy]
//   ix += incX
//   iy += incY
//
   idst += incDst
//  }
func AxpyIncTo(dst []complex64, incDst, idst uintptr, alpha complex64, x, y []complex64, n, incX, incY, ix, iy
uintptr) {
 for i := 0; i < int(n); i++ {
  dst[idst] = alpha*x[ix] + y[iy]
  ix += incX
  iy += incY
  idst += incDst
 }
}

// DotcUnitary is
//  for i, v := range x {
//   sum += y[i] * conj(v)
//  }
//  return sum
func DotcUnitary(x, y []complex64) (sum complex64) {
 for i, v := range x {
  sum += y[i] * conj(v)
 }
```

```
 return sum
}

// DotcInc is
//  for i := 0; i < int(n); i++ {
//   sum += y[iy] * conj(x[ix])
//   ix += incX
//   iy += incY
//  }
//  return sum
func DotcInc(x, y []complex64, n, incX, incY, ix, iy uintptr) (sum complex64) {
 for i := 0; i < int(n); i++ {
  sum += y[iy] * conj(x[ix])
  ix += incX
  iy += incY
 }
 return sum
}

// DotuUnitary is
//  for i, v := range x {
//   sum += y[i] * v
//  }
//  return sum
func DotuUnitary(x, y []complex64) (sum complex64) {
 for i, v := range x {
  sum += y[i] * v
 }
 return sum
}

// DotuInc is
//
  for i := 0; i < int(n); i++ {
//   sum += y[iy] * x[ix]
//   ix += incX
//   iy += incY
//  }
//  return sum
func DotuInc(x, y []complex64, n, incX, incY, ix, iy uintptr) (sum complex64) {
 for i := 0; i < int(n); i++ {
  sum += y[iy] * x[ix]
  ix += incX
  iy += incY
 }
 return sum
}
```

```
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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// license that can be found in the LICENSE file.

package unit

import (
 "fmt"
 "testing"
)

func TestPressureFormat(t *testing.T) {
 for _, test := range []struct {
  value  Pressure
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 Pa"},
  {1.23456789, "%.1v", "1 Pa"},
  {1.23456789, "%20.1v", "                1 Pa"},
  {1.23456789, "%20v", "       1.23456789 Pa"},
  {1.23456789, "%1v", "1.23456789 Pa"},
  {1.23456789, "%#v", "unit.Pressure(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Pressure=1.23456789 Pa)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
// SPDX-License-Identifier: Unlicense OR MIT

// +build !darwin

package key

// ModShortcut is the platform's shortcut modifier, usually the Ctrl
// key. On Apple platforms it is the Cmd key.
const ModShortcut = ModCtrl
<?xml version="1.0" encoding="UTF-8"?>
<gexf xmlns="http://www.gexf.net/1.2draft" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.gexf.net/1.2draft http://www.gexf.net/1.2draft/gexf.xsd" version="1.2">
 <meta lastmodifieddate="2009-03-20">
   <creator>Gephi.org</creator>
   <description>A Web network</description>
```

```
 </meta>
 <graph defaultedgetype="directed">
  <attributes class="node">
    <attribute id="0" title="url" type="string"/>
    <attribute id="1" title="indegree" type="float"/>
    <attribute id="2" title="frog" type="boolean">
      <default>true</default>
    </attribute>
  </attributes>
  <nodes>
    <node id="0" label="Gephi">
      <attvalues>
        <attvalue for="0" value="http://gephi.org"/>
        <attvalue for="1" value="1"/>
      </attvalues>
    </node>
    <node id="1" label="Webatlas">
      <attvalues>
        <attvalue for="0" value="http://webatlas.fr"/>
        <attvalue for="1"
 value="2"/>
      </attvalues>
    </node>
    <node id="2" label="RTGI">
      <attvalues>
        <attvalue for="0" value="http://rtgi.fr"/>
        <attvalue for="1" value="1"/>
      </attvalues>
    </node>
    <node id="3" label="BarabasiLab">
      <attvalues>
        <attvalue for="0" value="http://barabasilab.com"/>
        <attvalue for="1" value="1"/>
        <attvalue for="2" value="false"/>
      </attvalues>
    </node>
  </nodes>
  <edges>
    <edge id="0" source="0" target="1"/>
    <edge id="1" source="0" target="2"/>
    <edge id="2" source="1" target="0"/>
    <edge id="3" source="2" target="1"/>
    <edge id="4" source="0" target="3"/>
  </edges>
 </graph>
</gexf>
graph{"\\\
\\\
```

```
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\\\\\\\\\\\\"}
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// license that can be found in the LICENSE file.

package testlapack

import (
 "fmt"
 "testing"

 "gonum.org/v1/gonum/blas/blas64"
)

type Dlapmter interface {
 Dlapmt(forward bool, m, n int, x []float64, ldx int, k []int)
}

func DlapmtTest(t *testing.T, impl Dlapmter) {
 for ti, test := range []struct {
  forward bool
  k       []int

  want blas64.General
 }{
  {
   forward: true, k: []int{0, 1, 2},
   want: blas64.General{
    Rows:   4,
    Cols:   3,
    Stride: 3,
    Data: []float64{
     1, 2, 3,
     4, 5, 6,
     7, 8, 9,
     10, 11, 12,
    },
   },
  },
  {
   forward: false, k: []int{0, 1, 2},
   want: blas64.General{
```

```
   Rows:   4,
   Cols:   3,
   Stride: 3,
   Data: []float64{
    1, 2, 3,
    4, 5, 6,
    7, 8, 9,
    10, 11, 12,
   },
  },
 },
 {
  forward: true, k: []int{1, 2, 0},
  want: blas64.General{
   Rows:   4,
   Cols:   3,
   Stride:
3,
   Data: []float64{
    2, 3, 1,
    5, 6, 4,
    8, 9, 7,
    11, 12, 10,
   },
  },
 },
 {
  forward: false, k: []int{1, 2, 0},
  want: blas64.General{
   Rows:   4,
   Cols:   3,
   Stride: 3,
   Data: []float64{
    3, 1, 2,
    6, 4, 5,
    9, 7, 8,
    12, 10, 11,
   },
  },
 },
} {
 m := test.want.Rows
 n := test.want.Cols
 if len(test.k) != n {
  panic("bad length of k")
 }

 for _, extra := range []int{0, 11} {
```

```
  x := zeros(m, n, n+extra)
  c := 1
  for i := 0; i < m; i++ {
   for j := 0; j < n; j++ {
    x.Data[i*x.Stride+j] = float64(c)
    c++
   }
  }

  k := make([]int, len(test.k))
  copy(k, test.k)

  impl.Dlapmt(test.forward, m, n, x.Data, x.Stride, k)

  prefix := fmt.Sprintf("Case %v (forward=%t,m=%v,n=%v,extra=%v)", ti, test.forward, m, n, extra)
  if !generalOutsideAllNaN(x) {
   t.Errorf("%v: out-of-range write to X", prefix)
  }

  if !equalApproxGeneral(x, test.want, 0) {
   t.Errorf("%v: unexpected X\n%v\n%v",
 prefix, x, test.want)
  }
 }
 }
}
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package path

import (
 "math"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/graph"
 "gonum.org/v1/gonum/graph/simple"
)

// JohnsonAllPaths returns a shortest-path tree for shortest paths in the graph g.
// If the graph does not implement Weighted, UniformCost is used. If a negative cycle
// exists in g, ok will be returned false and paths will not contain valid data.
//
// The time complexity of JohnsonAllPaths is O(|V|.|E|+|V|^2.log|V|).
func JohnsonAllPaths(g graph.Graph) (paths AllShortest, ok bool) {
 adjusted := johnsonWeightAdjuster{Graph: g}
```

```
 if wg, ok := g.(Weighted); ok {
  adjusted.weight = wg.Weight
 } else {
  adjusted.weight = UniformCost(g)
 }

 paths = newAllShortest(graph.NodesOf(g.Nodes()), false)

 var q int64
 sign := int64(-1)
 for {
  // Choose a random node ID until we find
  // one that is not in g.
  q
 = sign * rand.Int63()
  if _, exists := paths.indexOf[q]; !exists {
   break
  }
  sign *= -1
 }

 adjusted.adjustBy, ok = BellmanFordFrom(johnsonGraphNode(q), johnsonReWeight{adjusted, q})
 if !ok {
  return paths, false
 }

 dijkstraAllPaths(adjusted, paths)

 for i, u := range paths.nodes {
  hu := adjusted.adjustBy.WeightTo(u.ID())
  for j, v := range paths.nodes {
   if i == j {
    continue
   }
   hv := adjusted.adjustBy.WeightTo(v.ID())
   paths.dist.Set(i, j, paths.dist.At(i, j)-hu+hv)
  }
 }

 return paths, ok
}

// johnsonWeightAdjuster is an edge re-weighted graph constructed
// by the first phase of the Johnson algorithm such that no negative
// edge weights exist in the graph.
type johnsonWeightAdjuster struct {
 graph.Graph
 weight Weighting
```

```
 adjustBy Shortest
}

var _ graph.Weighted = johnsonWeightAdjuster{}

func (g johnsonWeightAdjuster) Node(id int64) graph.Node {
 panic("path: unintended use of johnsonWeightAdjuster")
}

func (g johnsonWeightAdjuster) WeightedEdge(_,
 _ int64) graph.WeightedEdge {
 panic("path: unintended use of johnsonWeightAdjuster")
}

func (g johnsonWeightAdjuster) Weight(xid, yid int64) (w float64, ok bool) {
 w, ok = g.weight(xid, yid)
 return w + g.adjustBy.WeightTo(xid) - g.adjustBy.WeightTo(yid), ok
}

func (johnsonWeightAdjuster) HasEdgeBetween(_, _ int64) bool {
 panic("path: unintended use of johnsonWeightAdjuster")
}

// johnsonReWeight provides a query node to allow edge re-weighting
// using the Bellman-Ford algorithm for the first phase of the
// Johnson algorithm.
type johnsonReWeight struct {
 johnsonWeightAdjuster
 q int64
}

func (g johnsonReWeight) Node(id int64) graph.Node {
 if id != g.q {
  panic("path: unintended use of johnsonReWeight")
 }
 return simple.Node(id)
}

func (g johnsonReWeight) Nodes() graph.Nodes {
 return newJohnsonNodeIterator(g.q, g.Graph.Nodes())
}

func (g johnsonReWeight) From(id int64) graph.Nodes {
 if id == g.q {
  return g.Graph.Nodes()
 }
 return g.Graph.From(id)
```

```
}

func (g johnsonReWeight)
 Edge(uid, vid int64) graph.Edge {
 if uid == g.q && g.Graph.Node(vid) != nil {
  return simple.Edge{F: johnsonGraphNode(g.q), T: simple.Node(vid)}
 }
 return g.Graph.Edge(uid, vid)
}

func (g johnsonReWeight) Weight(xid, yid int64) (w float64, ok bool) {
 switch g.q {
 case xid:
  return 0, true
 case yid:
  return math.Inf(1), false
 default:
  return g.weight(xid, yid)
 }
}

type johnsonGraphNode int64

func (n johnsonGraphNode) ID() int64 { return int64(n) }

func newJohnsonNodeIterator(q int64, nodes graph.Nodes) *johnsonNodeIterator {
 return &johnsonNodeIterator{q: q, nodes: nodes}
}

type johnsonNodeIterator struct {
 q          int64
 nodes      graph.Nodes
 qUsed, qOK bool
}

func (it *johnsonNodeIterator) Len() int {
 var len int
 if it.nodes != nil {
  len = it.nodes.Len()
 }
 if !it.qUsed {
  len++
 }
 return len
}

func (it *johnsonNodeIterator) Next() bool {
 if it.nodes != nil {
```

```
  ok := it.nodes.Next()
  if ok {
   return true
  }
 }
 if !it.qUsed {
  it.qOK
 = true
  it.qUsed = true
  return true
 }
 it.qOK = false
 return false
}

func (it *johnsonNodeIterator) Node() graph.Node {
 if it.qOK {
  return johnsonGraphNode(it.q)
 }
 if it.nodes == nil {
  return nil
 }
 return it.nodes.Node()
}

func (it *johnsonNodeIterator) Reset() {
 it.qOK = false
 it.qUsed = false
 if it.nodes == nil {
  return
 }
 it.nodes.Reset()
}
graph{{GRA}{GRA}{GRA{GRA}{GRA}GRA}}
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package gonum

import "gonum.org/v1/gonum/blas"

// Dgerq2 computes an RQ factorization of the mn matrix A,
//  A = R * Q.
// On exit, if m <= n, the upper triangle of the subarray
// A[0:m, n-m:n] contains the mm upper triangular matrix R.
// If m >= n, the elements on and above the (m-n)-th subdiagonal
// contain the mn upper trapezoidal matrix R.
```

```
// The remaining elements, with tau, represent the
// orthogonal matrix Q as a product of min(m,n) elementary
// reflectors.
//
// The matrix Q is represented as a product of elementary reflectors
//  Q = H_0 H_1 . . . H_{min(m,n)-1}.
// Each H(i) has the form
//  H_i = I - tau_i * v * v
// where v is a vector with v[0:n-k+i-1] stored in A[m-k+i, 0:n-k+i-1],
// v[n-k+i:n] = 0 and v[n-k+i] = 1.
//
// tau must have length min(m,n) and work must have length m, otherwise
// Dgerq2 will
 panic.
//
// Dgerq2 is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dgerq2(m, n int, a []float64, lda int, tau, work []float64) {
 switch {
 case m < 0:
  panic(mLT0)
 case n < 0:
  panic(nLT0)
 case lda < max(1, n):
  panic(badLdA)
 case len(work) < m:
  panic(shortWork)
 }

 // Quick return if possible.
 k := min(m, n)
 if k == 0 {
  return
 }

 switch {
 case len(a) < (m-1)*lda+n:
  panic(shortA)
 case len(tau) < k:
  panic(shortTau)
 }

 for i := k - 1; i >= 0; i-- {
  // Generate elementary reflector H[i] to annihilate
  // A[m-k+i, 0:n-k+i-1].
  mki := m - k + i
  nki := n - k + i
  var aii float64
  aii, tau[i] = impl.Dlarfg(nki+1, a[mki*lda+nki], a[mki*lda:], 1)
```

```
  // Apply H[i] to A[0:m-k+i-1, 0:n-k+i] from the right.
  a[mki*lda+nki] = 1
  impl.Dlarf(blas.Right, mki, nki+1, a[mki*lda:], 1, tau[i], a, lda, work)
  a[mki*lda+nki] = aii
 }
}
graph{STs{STs{STe}STe}STe}
graph{{SubGra_}{SubGra_}}
graph{digraC{digraF}}
graph{Nod0{Nod0}}
graph{{{{diGE}{diGE{diGE}{diGE}{diGE}}}diG{diGE}{diGE{diGE}{diGE}{diGE}}}diGE}
graph{su{su}}
graph{"\"\"}
graph{{dig0}}
graph{"rr "}
graph{{{{subGr}subGr}subGr}}
graph{{{digu}}digz{{{digu}}digz}}
graph{Subgra{{Subgrag{Subgra{Subgra}Subgra}}Subgra}Subgra}
graph{{Edg_}Edg_{Edg_}}
graph {
}
digraph{e[l=<<"><"></></></></></>>]}
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package network

const (
 A = iota
 B
 C
 D
 E
 F
 G
 H
 I
 J
 K
 L
 M
 N
 O
 P
 Q
 R
```

```
 S
 T
 U
 V
 W
 X
 Y
 Z
)

// set is an integer set.
type set map[int64]struct{}

func linksTo(i ...int64) set {
 if len(i) == 0 {
  return nil
 }
 s := make(set)
 for _, v := range i {
  s[v] = struct{}{}
 }
 return s
}
$(CUR_SRCS) +=  d1mach.f zabs.f   zasyi.f  zbesk.f  zbknu.f  zexp.f   zmlt.f   zshch.f  zuni1.f  zunk2.f \
 dgamln.f zacai.f  zbesh.f  zbesy.f  zbuni.f  zkscl.f  zrati.f  zsqrt.f  zuni2.f  zuoik.f \
 i1mach.f zacon.f  zbesi.f  zbinu.f  zbunk.f  zlog.f   zs1s2.f  zuchk.f  zunik.f  zwrsk.f \
 xerror.f zairy.f  zbesj.f  zbiry.f  zdiv.f   zmlri.f  zseri.f  zunhj.f  zunk1.f
graph{{SUBGRAPHE}{SUBGRAPHE}{SUBGRAPHE}{SUBGRAPHP}}
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package testblas

import (
 "testing"

 "gonum.org/v1/gonum/blas"
)

type Ztpmver interface {
 Ztpmv(uplo blas.Uplo, trans blas.Transpose, diag blas.Diag, n int, ap []complex128, x []complex128, incX int)
}

func ZtpmvTest(t *testing.T, impl Ztpmver) {
 for tc, test := range ztrmvTestCases {
  n := len(test.x)
  uplo := test.uplo
```

```
 for _, trans := range []blas.Transpose{blas.NoTrans, blas.Trans, blas.ConjTrans} {
  for _, diag := range []blas.Diag{blas.NonUnit, blas.Unit} {
   for _, incX := range []int{-11, -2, -1, 1, 2, 7} {
    ap := zPack(uplo, n, test.a, n)
    apCopy := make([]complex128, len(ap))
    copy(apCopy, ap)

    x := makeZVector(test.x, incX)

    impl.Ztpmv(uplo, trans, diag, n, ap, x, incX)

    if !zsame(ap, apCopy) {
     t.Errorf("Case %v (uplo=%v,trans=%v,diag=%v,incX=%v): unexpected modification
of A", tc, uplo, trans, diag, incX)
    }

    var want []complex128
    if diag == blas.NonUnit {
     switch {
     case trans == blas.NoTrans && incX > 0:
      want = makeZVector(test.want, incX)
     case trans == blas.NoTrans && incX < 0:
      want = makeZVector(test.wantNeg, incX)
     case trans == blas.Trans && incX > 0:
      want = makeZVector(test.wantTrans, incX)
     case trans == blas.Trans && incX < 0:
      want = makeZVector(test.wantTransNeg, incX)
     case trans == blas.ConjTrans && incX > 0:
      want = makeZVector(test.wantConjTrans, incX)
     case trans == blas.ConjTrans && incX < 0:
      want = makeZVector(test.wantConjTransNeg, incX)
     }
    } else {
     switch {
     case trans == blas.NoTrans && incX > 0:
      want = makeZVector(test.wantUnit, incX)
     case trans == blas.NoTrans && incX < 0:
      want = makeZVector(test.wantUnitNeg, incX)
     case trans == blas.Trans && incX > 0:
      want = makeZVector(test.wantUnitTrans,
incX)
     case trans == blas.Trans && incX < 0:
      want = makeZVector(test.wantUnitTransNeg, incX)
     case trans == blas.ConjTrans && incX > 0:
      want = makeZVector(test.wantUnitConjTrans, incX)
     case trans == blas.ConjTrans && incX < 0:
      want = makeZVector(test.wantUnitConjTransNeg, incX)
     }
```

```
     }
     if !zsame(x, want) {
      t.Errorf("Case %v (uplo=%v,trans=%v,diag=%v,incX=%v): unexpected result\nwant %v\ngot  %v", tc, uplo, trans,
diag, incX, want, x)
     }
    }
   }
  }
 }
}
/*******************/graph{/*******************/}
digraph{B:sw->G:sw}
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// +build !amd64 noasm appengine safe

package f64

// DotUnitary is
//  for i, v := range x {
//   sum += y[i] * v
//  }
//  return sum
func DotUnitary(x, y []float64) (sum float64) {
 for i, v := range x {
  sum += y[i] * v
 }
 return sum
}

// DotInc is
//  for i := 0; i < int(n); i++ {
//   sum += y[iy] * x[ix]
//   ix += incX
//   iy += incY
//  }
//  return sum
func DotInc(x, y []float64, n, incX, incY, ix, iy uintptr) (sum float64) {
 for i := 0; i < int(n); i++ {
  sum += y[iy] * x[ix]
  ix += incX
  iy += incY
 }
 return sum
}
```

```
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package testlapack

import (
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
 "gonum.org/v1/gonum/floats"
)

type Dormr2er interface {
 Dgerqf(m, n int, a []float64, lda int, tau, work []float64, lwork int)
 Dormr2(side blas.Side, trans blas.Transpose, m, n, k int, a []float64, lda int, tau, c []float64, ldc int, work []float64)
}

func Dormr2Test(t *testing.T, impl Dormr2er) {
 rnd := rand.New(rand.NewSource(1))
 for _, side := range []blas.Side{blas.Left, blas.Right} {
  for _, trans := range []blas.Transpose{blas.NoTrans, blas.Trans} {
   for _, test := range []struct {
    common, adim, cdim, lda, ldc int
   }{
    {3, 4, 5, 0, 0},
    {3, 5, 4, 0, 0},
    {4, 3, 5, 0, 0},
    {4, 5, 3, 0, 0},
    {5, 3, 4, 0, 0},
    {5, 4, 3, 0, 0},
    {3, 4, 5, 6, 20},
    {3, 5, 4, 6,
 20},
    {4, 3, 5, 6, 20},
    {4, 5, 3, 6, 20},
    {5, 3, 4, 6, 20},
    {5, 4, 3, 6, 20},
    {3, 4, 5, 20, 6},
    {3, 5, 4, 20, 6},
    {4, 3, 5, 20, 6},
    {4, 5, 3, 20, 6},
    {5, 3, 4, 20, 6},
    {5, 4, 3, 20, 6},
   } {
```

```
    ma := test.adim
    na := test.common
    var mc, nc int
    if side == blas.Left {
     mc = test.common
     nc = test.cdim
    } else {
     mc = test.cdim
     nc = test.common
    }

    // Generate a random matrix
    lda := test.lda
    if lda == 0 {
     lda = na
    }
    a := make([]float64, ma*lda)
    for i := range a {
     a[i] = rnd.Float64()
    }
    ldc := test.ldc
    if ldc == 0 {
     ldc = nc
    }
    // Compute random C matrix
    c := make([]float64, mc*ldc)
    for i := range c {
     c[i] = rnd.Float64()
    }

    // Compute RQ
    k := min(ma, na)
    tau := make([]float64, k)
    work := make([]float64, 1)
    impl.Dgerqf(ma, na, a, lda, tau, work, -1)
    work = make([]float64, int(work[0]))
    impl.Dgerqf(ma, na, a, lda,
tau, work, len(work))

    // Build Q from result
    q := constructQ("RQ", ma, na, a, lda, tau)

    cMat := blas64.General{
     Rows:   mc,
     Cols:   nc,
     Stride: ldc,
     Data:   make([]float64, len(c)),
    }
```

```
    copy(cMat.Data, c)
    cMatCopy := blas64.General{
     Rows:   cMat.Rows,
     Cols:   cMat.Cols,
     Stride: cMat.Stride,
     Data:   make([]float64, len(cMat.Data)),
    }
    copy(cMatCopy.Data, cMat.Data)
    switch {
    default:
     panic("bad test")
    case side == blas.Left && trans == blas.NoTrans:
     blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, q, cMatCopy, 0, cMat)
    case side == blas.Left && trans == blas.Trans:
     blas64.Gemm(blas.Trans, blas.NoTrans, 1, q, cMatCopy, 0, cMat)
    case side == blas.Right && trans == blas.NoTrans:
     blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, cMatCopy, q, 0, cMat)
    case side == blas.Right && trans == blas.Trans:
     blas64.Gemm(blas.NoTrans, blas.Trans, 1, cMatCopy, q, 0, cMat)
    }
    // Do Dorm2r ard
  compare
    if side == blas.Left {
     work = make([]float64, nc)
    } else {
     work = make([]float64, mc)
    }
    aCopy := make([]float64, len(a))
    copy(aCopy, a)
    tauCopy := make([]float64, len(tau))
    copy(tauCopy, tau)
    impl.Dormr2(side, trans, mc, nc, k, a[(ma-k)*lda:], lda, tau, c, ldc, work)
    if !floats.Equal(a, aCopy) {
     t.Errorf("a changed in call")
    }
    if !floats.Equal(tau, tauCopy) {
     t.Errorf("tau changed in call")
    }
    if !floats.EqualApprox(cMat.Data, c, 1e-14) {
     t.Errorf("Multiplication mismatch.\n Want %v \n got %v.", cMat.Data, c)
    }
   }
  }
 }
}
graph{"\Zd"{"\Z{"}}
graph{{{gra0{{gra0}}}}}
```

```
graph{{SubGrap{{SubGrap}}}}
graph{Edv{Edv""Edn""Eds}Edn""Eds}
graph{noG}
graph{{{{stricc}{stricc}{stricm}}stricc}{stricc}{stricm}}
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// Package fftpack implements Discrete Fourier Transform functions
// ported from the Fortran implementation of FFTPACK.
package fftpack // import "gonum.org/v1/gonum/fourier/internal/fftpack"
graph{{gr{{gr}gr}gr}}
digraph {
 A:ne -> B:sw
 C:foo -> D:bar:se
 E:_ -> F
 G:n
 H:e
 I:s
 J:w
 K:nw
 L:c
}
graph{{E_{E_}}E_{E_}E_{E_}}
graph{No{No}No{No}No{No}N{No{No}No}No{No}N{No{No}No{No}No{No}{No}No{No}No{No}No}}
graph{dia}
graph{{{{nod{nod}}}nod{nod}}}
graph{{str}str}
graph{{{Digw{Digz{{{Digw{Digz}}}}}}}}
graph{{Sx}}
graph{Subc{{Subc{{Suba}Suba}Suba}Suba}}
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package testlapack

import (
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
 "gonum.org/v1/gonum/floats"
)

type Dtrti2er interface {
```

```
 Dtrti2(uplo blas.Uplo, diag blas.Diag, n int, a []float64, lda int)
}

func Dtrti2Test(t *testing.T, impl Dtrti2er) {
 const tol = 1e-14
 for _, test := range []struct {
  a    []float64
  n    int
  uplo blas.Uplo
  diag blas.Diag
  ans  []float64
 }{
  {
   a: []float64{
    2, 3, 4,
    0, 5, 6,
    8, 0, 8},
   n:    3,
   uplo: blas.Upper,
   diag: blas.NonUnit,
   ans: []float64{
    0.5, -0.3, -0.025,
    0, 0.2, -0.15,
    8, 0, 0.125,
   },
  },
  {
   a: []float64{
    5, 3, 4,
    0, 7, 6,
    10, 0, 8},
   n:    3,
   uplo: blas.Upper,
   diag: blas.Unit,
   ans: []float64{
    5, -3, 14,
    0, 7, -6,
    10, 0, 8,
   },
  },
  {
   a:
[]float64{
    2, 0, 0,
    3, 5, 0,
    4, 6, 8},
   n:    3,
   uplo: blas.Lower,
```

```
  diag: blas.NonUnit,
  ans: []float64{
   0.5, 0, 0,
   -0.3, 0.2, 0,
   -0.025, -0.15, 0.125,
  },
 },
 {
  a: []float64{
   1, 0, 0,
   3, 1, 0,
   4, 6, 1},
  n:    3,
  uplo: blas.Lower,
  diag: blas.Unit,
  ans: []float64{
   1, 0, 0,
   -3, 1, 0,
   14, -6, 1,
  },
 },
} {
 impl.Dtrti2(test.uplo, test.diag, test.n, test.a, test.n)
 if !floats.EqualApprox(test.ans, test.a, tol) {
  t.Errorf("Matrix inverse mismatch. Want %v, got %v.", test.ans, test.a)
 }
}
rnd := rand.New(rand.NewSource(1))
bi := blas64.Implementation()
for _, uplo := range []blas.Uplo{blas.Upper, blas.Lower} {
 for _, diag := range []blas.Diag{blas.NonUnit, blas.Unit} {
  for _, test := range []struct {
   n, lda int
  }{
   {1, 0},
   {2, 0},
   {3, 0},
   {1, 5},
   {2, 5},
   {3, 5},
  } {
   n := test.n
   lda := test.lda
   if lda == 0 {
    lda = n
   }
   // Allocate nn
```

```
matrix A and fill it with random numbers.
   a := make([]float64, n*lda)
   for i := range a {
    a[i] = rnd.Float64()
   }
   for i := 0; i < n; i++ {
    // This keeps the matrices well conditioned.
    a[i*lda+i] += float64(n)
   }
   aCopy := make([]float64, len(a))
   copy(aCopy, a)
   // Compute the inverse of the uplo triangle.
   impl.Dtrti2(uplo, diag, n, a, lda)
   // Zero out the opposite triangle.
   if uplo == blas.Upper {
    for i := 1; i < n; i++ {
     for j := 0; j < i; j++ {
      aCopy[i*lda+j] = 0
      a[i*lda+j] = 0
     }
    }
   } else {
    for i := 0; i < n; i++ {
     for j := i + 1; j < n; j++ {
      aCopy[i*lda+j] = 0
      a[i*lda+j] = 0
     }
    }
   }
   if diag == blas.Unit {
    // Set the diagonal of A^{-1} and A explicitly to 1.
    for i := 0; i < n; i++ {
     a[i*lda+i] = 1
     aCopy[i*lda+i] = 1
    }
   }
   // Compute A^{-1} * A and store the result in ans.
   ans := make([]float64, len(a))
   bi.Dgemm(blas.NoTrans,
blas.NoTrans, n, n, n, 1, a, lda, aCopy, lda, 0, ans, lda)
   // Check that ans is close to the identity matrix.
   dist := distFromIdentity(n, ans, lda)
   if dist > tol {
    t.Errorf("|inv(A) * A - I| = %v. Upper = %v, unit = %v, ans = %v", dist, uplo == blas.Upper, diag == blas.Unit, ans)
   }
  }
 }
}
```

```
}
graph{DiGraphd{{DiGraphg}{DiGraphg}{DiGraphg}DiGraphg}{DiGraphg}{}}
graph{{ST_{{{{{ST_}ST_}}ST_}}}ST_}
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package set

import "gonum.org/v1/gonum/graph"

// Ints is a set of int identifiers.
type Ints map[int]struct{}

// The simple accessor methods for Ints are provided to allow ease of
// implementation change should the need arise.

// Add inserts an element into the set.
func (s Ints) Add(e int) {
 s[e] = struct{}{}
}

// Has reports the existence of the element in the set.
func (s Ints) Has(e int) bool {
 _, ok := s[e]
 return ok
}

// Remove deletes the specified element from the set.
func (s Ints) Remove(e int) {
 delete(s, e)
}

// Count reports the number of elements stored in the set.
func (s Ints) Count() int {
 return len(s)
}

// IntsEqual reports set equality between the parameters. Sets are equal if
// and only if they have the same elements.
func IntsEqual(a, b Ints) bool {
 if intsSame(a, b) {
  return true
 }

 if
 len(a) != len(b) {
  return false
```

```
 }

 for e := range a {
  if _, ok := b[e]; !ok {
   return false
  }
 }

 return true
}

// Int64s is a set of int64 identifiers.
type Int64s map[int64]struct{}

// The simple accessor methods for Ints are provided to allow ease of
// implementation change should the need arise.

// Add inserts an element into the set.
func (s Int64s) Add(e int64) {
 s[e] = struct{}{}
}

// Has reports the existence of the element in the set.
func (s Int64s) Has(e int64) bool {
 _, ok := s[e]
 return ok
}

// Remove deletes the specified element from the set.
func (s Int64s) Remove(e int64) {
 delete(s, e)
}

// Count reports the number of elements stored in the set.
func (s Int64s) Count() int {
 return len(s)
}

// Int64sEqual reports set equality between the parameters. Sets are equal if
// and only if they have the same elements.
func Int64sEqual(a, b Int64s) bool {
 if int64sSame(a, b) {
  return true
 }

 if len(a) != len(b) {
  return false
 }
```

```
 for e := range
 a {
  if _, ok := b[e]; !ok {
   return false
  }
 }

 return true
}

// Nodes is a set of nodes keyed in their integer identifiers.
type Nodes map[int64]graph.Node

// NewNodes returns a new Nodes.
func NewNodes() Nodes {
 return make(Nodes)
}

// NewNodes returns a new Nodes with the given size hint, n.
func NewNodesSize(n int) Nodes {
 return make(Nodes, n)
}

// The simple accessor methods for Nodes are provided to allow ease of
// implementation change should the need arise.

// Add inserts an element into the set.
func (s Nodes) Add(n graph.Node) {
 s[n.ID()] = n
}

// Remove deletes the specified element from the set.
func (s Nodes) Remove(e graph.Node) {
 delete(s, e.ID())
}

// Count returns the number of element in the set.
func (s Nodes) Count() int {
 return len(s)
}

// Has reports the existence of the elements in the set.
func (s Nodes) Has(n graph.Node) bool {
 _, ok := s[n.ID()]
 return ok
}
```

```
// CloneNodes returns a clone of src.
func CloneNodes(src Nodes) Nodes {
 dst
 := make(Nodes, len(src))
 for e, n := range src {
  dst[e] = n
 }
 return dst
}

// Equal reports set equality between the parameters. Sets are equal if
// and only if they have the same elements.
func Equal(a, b Nodes) bool {
 if same(a, b) {
  return true
 }

 if len(a) != len(b) {
  return false
 }

 for e := range a {
  if _, ok := b[e]; !ok {
   return false
  }
 }

 return true
}

// UnionOfNodes returns the union of a and b.
//
// The union of two sets, a and b, is the set containing all the
// elements of each, for instance:
//
//     {a,b,c} UNION {d,e,f} = {a,b,c,d,e,f}
//
// Since sets may not have repetition, unions of two sets that overlap
// do not contain repeat elements, that is:
//
//     {a,b,c} UNION {b,c,d} = {a,b,c,d}
//
func UnionOfNodes(a, b Nodes) Nodes {
 if same(a, b) {
  return CloneNodes(a)
 }

 dst := make(Nodes)
```

```
 for e, n := range a {
  dst[e] = n
 }
 for e, n := range b {
  dst[e] = n
 }

 return dst
}

// IntersectionOfNodes returns the intersection of
 a and b.
//
// The intersection of two sets, a and b, is the set containing all
// the elements shared between the two sets, for instance:
//
//     {a,b,c} INTERSECT {b,c,d} = {b,c}
//
// The intersection between a set and itself is itself, and thus
// effectively a copy operation:
//
//     {a,b,c} INTERSECT {a,b,c} = {a,b,c}
//
// The intersection between two sets that share no elements is the empty
// set:
//
//     {a,b,c} INTERSECT {d,e,f} = {}
//
func IntersectionOfNodes(a, b Nodes) Nodes {
 if same(a, b) {
  return CloneNodes(a)
 }
 dst := make(Nodes)
 if len(a) > len(b) {
  a, b = b, a
 }
 for e, n := range a {
  if _, ok := b[e]; ok {
   dst[e] = n
  }
 }
 return dst
}
graph{{{No_}No_}No_}
graph{{{SUBB}{SUBB}SUBB}SUBB{{SUBB}{SUBB}SUBB}SUBB{{SUBB{}}}}
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```

```
package stat_test

import (
 "fmt"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/stat"
)

func ExampleLinearRegression() {
 var (
  xs      = make([]float64, 100)
  ys      = make([]float64, 100)
  weights []float64
 )

 line := func(x float64) float64 {
  return 1 + 3*x
 }

 for i := range xs {
  xs[i] = float64(i)
  ys[i] = line(xs[i]) + 0.1*rand.NormFloat64()
 }

 // Do not force the regression line to pass through the origin.
 origin := false

 alpha, beta := stat.LinearRegression(xs, ys, weights, origin)
 r2 := stat.RSquared(xs, ys, weights, alpha, beta)

 fmt.Printf("Estimated slope is:  %v\n", alpha)
 fmt.Printf("Estimated offset is: %v\n", beta)
 fmt.Printf("R^2: %v\n", r2)

 // Output:
 // Estimated slope is:  0.988572424633503
 // Estimated offset is: 3.0001541344029676
 // R^2: 0.9999991095061128
}
graph{No}
graph{{SUBGG{SUBGH}}SUBGH}
graph{{Dig}{Dig}Dig{Dig}{Dig}Dig}
Graph{subgrapA{subgrapA}{subgrapA{subgrapA}}}
graph{{SuG}SuG}
```

```
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "fmt"
 "testing"
)

func TestPowerFormat(t *testing.T) {
 for _, test := range []struct {
  value  Power
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 W"},
  {1.23456789, "%.1v", "1 W"},
  {1.23456789, "%20.1v", "                 1 W"},
  {1.23456789, "%20v", "        1.23456789 W"},
  {1.23456789, "%1v", "1.23456789 W"},
  {1.23456789, "%#v", "unit.Power(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Power=1.23456789 W)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
// SPDX-License-Identifier: Unlicense OR MIT

// +build linux freebsd windows

package headless

import (
 "gioui.org/app/internal/egl"
)

func newContext() (context, error) {
 return egl.NewContext(egl.EGL_DEFAULT_DISPLAY)
}
graph{<<TTDTTDDTT>>}
```

```
Graph{{{subr}{subu}subr}{subu}}
graph{{{{{{{subGrn}subGrc}{subGrc}{subGrn}}}}}}
// SPDX-License-Identifier: Unlicense OR MIT

// Package points standard output, standard error and the standard
// library package log to the platform logger.
package log
graph{{STR_}STR_}
graph{diG8{}diG5{{diG8{}diG5{}diG5{}diG5{}diG5}}diG5{}diG5{}diG5}
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// +build !amd64 noasm appengine safe

package f32

// AxpyUnitary is
//  for i, v := range x {
//   y[i] += alpha * v
//  }
func AxpyUnitary(alpha float32, x, y []float32) {
 for i, v := range x {
  y[i] += alpha * v
 }
}

// AxpyUnitaryTo is
//  for i, v := range x {
//   dst[i] = alpha*v + y[i]
//  }
func AxpyUnitaryTo(dst []float32, alpha float32, x, y []float32) {
 for i, v := range x {
  dst[i] = alpha*v + y[i]
 }
}

// AxpyInc is
//  for i := 0; i < int(n); i++ {
//   y[iy] += alpha * x[ix]
//   ix += incX
//   iy += incY
//  }
func AxpyInc(alpha float32, x, y []float32, n, incX, incY, ix, iy uintptr) {
 for i := 0; i < int(n); i++ {
  y[iy] += alpha * x[ix]
  ix += incX
  iy += incY
```

```
 }
}

// AxpyIncTo is
//  for i := 0; i < int(n); i++ {
//   dst[idst] = alpha*x[ix] + y[iy]
//   ix += incX
//   iy += incY
//   idst +=
 incDst
//  }
func AxpyIncTo(dst []float32, incDst, idst uintptr, alpha float32, x, y []float32, n, incX, incY, ix, iy uintptr) {
 for i := 0; i < int(n); i++ {
  dst[idst] = alpha*x[ix] + y[iy]
  ix += incX
  iy += incY
  idst += incDst
 }
}

// DotUnitary is
//  for i, v := range x {
//   sum += y[i] * v
//  }
//  return sum
func DotUnitary(x, y []float32) (sum float32) {
 for i, v := range x {
  sum += y[i] * v
 }
 return sum
}

// DotInc is
//  for i := 0; i < int(n); i++ {
//   sum += y[iy] * x[ix]
//   ix += incX
//   iy += incY
//  }
//  return sum
func DotInc(x, y []float32, n, incX, incY, ix, iy uintptr) (sum float32) {
 for i := 0; i < int(n); i++ {
  sum += y[iy] * x[ix]
  ix += incX
  iy += incY
 }
 return sum
}
```

```
// DdotUnitary is
//  for i, v := range x {
//   sum += float64(y[i]) * float64(v)
//  }
//  return
func DdotUnitary(x, y []float32) (sum float64) {
 for i, v := range x {
  sum += float64(y[i]) * float64(v)
 }
 return
}

// DdotInc is
//  for i := 0; i < int(n); i++
 {
//   sum += float64(y[iy]) * float64(x[ix])
//   ix += incX
//   iy += incY
//  }
//  return
func DdotInc(x, y []float32, n, incX, incY, ix, iy uintptr) (sum float64) {
 for i := 0; i < int(n); i++ {
  sum += float64(y[iy]) * float64(x[ix])
  ix += incX
  iy += incY
 }
 return
}
graph{{{gra0{{gra0{{gra0}{gra0{gra0{{gra0}{gra0}}}}}gra0}{gra0{gra8{{gra0}{gra0}}}}}}}
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package distuv

import (
 "math"
 "sort"
 "testing"

 "golang.org/x/exp/rand"
)

func TestTriangleConstraint(t *testing.T) {
 defer func() {
  if r := recover(); r == nil {
   t.Errorf("The constraints were violated, but not caught")
  }
```

```
 }()

 // test b < a
 NewTriangle(3, 1, 2, nil)
 // test c > b
 NewTriangle(1, 2, 3, nil)
}

func TestTriangle(t *testing.T) {
 src := rand.New(rand.NewSource(1))
 for i, test := range []struct {
  a, b, c float64
 }{
  {
   a: 0.0,
   b: 1.0,
   c: 0.5,
  },
  {
   a: 0.1,
   b: 0.3,
   c: 0.2,
  },
  {
   a: 1.0,
   b: 2.0,
   c: 1.5,
  },
  {
   a: 0.0,
   b: 1.0,
   c: 0.0,
  },
 } {
  f := NewTriangle(test.a, test.b, test.c, src)
  const (
   tol = 1e-2
   n   = 1e6
  )
  x := make([]float64, n)
  generateSamples(x, f)
  sort.Float64s(x)

  checkMean(t, i, x, f, tol)
  checkVarAndStd(t, i,
 x, f, tol)
  checkEntropy(t, i, x, f, tol)
  checkExKurtosis(t, i, x, f, tol)
```

```
  checkSkewness(t, i, x, f, 5e-2)
  checkMedian(t, i, x, f, tol)
  checkQuantileCDFSurvival(t, i, x, f, tol)
  checkProbContinuous(t, i, x, f, 1e-10)
  checkProbQuantContinuous(t, i, x, f, tol)
 }
}

func TestTriangleProb(t *testing.T) {
 pts := []univariateProbPoint{
  {
   loc:     0.5,
   prob:    0,
   cumProb: 0,
   logProb: math.Inf(-1),
  },
  {
   loc:     1,
   prob:    0,
   cumProb: 0,
   logProb: math.Inf(-1),
  },
  {
   loc:     2,
   prob:    1.0,
   cumProb: 0.5,
   logProb: 0,
  },
  {
   loc:     3,
   prob:    0,
   cumProb: 1,
   logProb: math.Inf(-1),
  },
 }
 testDistributionProbs(t, NewTriangle(1, 3, 2, nil), "Standard 1,2,3 Triangle", pts)
}
graph{{{{Str{Str}}Str}}}
graph{{NO}}
// SPDX-License-Identifier: Unlicense OR MIT

// Package profiles provides access to rendering
// profiles.
package profile

import (
 "gioui.org/internal/opconst"
 "gioui.org/io/event"
```

```
 "gioui.org/op"
)

// Op registers a handler for receiving
// Events.
type Op struct {
 Key event.Key
}

// Event contains profile data from a single
// rendered frame.
type Event struct {
 // Timings. Very likely to change.
 Timings string
}

func (p Op) Add(o *op.Ops) {
 data := o.Write(opconst.TypeProfileLen, p.Key)
 data[0] = byte(opconst.TypeProfile)
}

func (p Event) ImplementsEvent() {}
graph{St5{St5{St1}{St5{St1}St1{St1}St1}St1}}
graph{{{{stricc}{stricm}}stricc}{stricc}{stricm}}
graph{{diGrap}{diGrap}{diGrap}diGra{{diGrap}}{diGrap}{diGrap}{diGrap}}
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package distmv

import (
 "math"
 "testing"

 "gonum.org/v1/gonum/floats"
 "gonum.org/v1/gonum/mat"
 "gonum.org/v1/gonum/stat"
)

type prober interface {
 Prob(x []float64) float64
 LogProb(x []float64) float64
}

type probCase struct {
 dist    prober
 loc     []float64
```

```
 logProb float64
}

func testProbability(t *testing.T, cases []probCase) {
 for _, test := range cases {
  logProb := test.dist.LogProb(test.loc)
  if math.Abs(logProb-test.logProb) > 1e-14 {
   t.Errorf("LogProb mismatch: want: %v, got: %v", test.logProb, logProb)
  }
  prob := test.dist.Prob(test.loc)
  if math.Abs(prob-math.Exp(test.logProb)) > 1e-14 {
   t.Errorf("Prob mismatch: want: %v, got: %v", math.Exp(test.logProb), prob)
  }
 }
}

func generateSamples(x *mat.Dense, r Rander) {
 n, _ := x.Dims()
 for i := 0; i < n; i++ {
  r.Rand(x.RawRowView(i))
 }
}

type
 Meaner interface {
 Mean([]float64) []float64
}

func checkMean(t *testing.T, cas int, x *mat.Dense, m Meaner, tol float64) {
 mean := m.Mean(nil)

 // Check that the answer is identical when using nil or non-nil.
 mean2 := make([]float64, len(mean))
 m.Mean(mean2)
 if !floats.Equal(mean, mean2) {
  t.Errorf("Mean mismatch when providing nil and slice. Case %v", cas)
 }

 // Check that the mean matches the samples.
 r, _ := x.Dims()
 col := make([]float64, r)
 meanEst := make([]float64, len(mean))
 for i := range meanEst {
  meanEst[i] = stat.Mean(mat.Col(col, i, x), nil)
 }
 if !floats.EqualApprox(mean, meanEst, tol) {
  t.Errorf("Returned mean and sample mean mismatch. Case %v. Empirical %v, returned %v", cas, meanEst, mean)
 }
```

```
}

type Cover interface {
 CovarianceMatrix(*mat.SymDense)
}

func checkCov(t *testing.T, cas int, x *mat.Dense, c Cover, tol float64) {
 var cov mat.SymDense
 c.CovarianceMatrix(&cov)
 n := cov.Symmetric()
 cov2 := mat.NewSymDense(n, nil)
 c.CovarianceMatrix(cov2)
 if
 !mat.Equal(&cov, cov2) {
  t.Errorf("Cov mismatch when providing nil and matrix. Case %v", cas)
 }
 var cov3 mat.SymDense
 c.CovarianceMatrix(&cov3)
 if !mat.Equal(&cov, &cov3) {
  t.Errorf("Cov mismatch when providing zero matrix. Case %v", cas)
 }

 // Check that the covariance matrix matches the samples
 var covEst mat.SymDense
 stat.CovarianceMatrix(&covEst, x, nil)
 if !mat.EqualApprox(&covEst, &cov, tol) {
  t.Errorf("Return cov and sample cov mismatch. Cas %v.\nGot:\n%0.4v\nWant:\n%0.4v", cas, mat.Formatted(&cov),
mat.Formatted(&covEst))
 }
}
graph{{no9{{no9}{no6}}no6}}
graph{{{{{st_}{st_}}}}}
graph{{DiG_}{DiG_}{DiG_}{DiG_}{DiG_}{DiG_}}
graph{NoR{NoR}}
graph{su_{su_}su_{su_}}
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package topo

import (
 "gonum.org/v1/gonum/graph"
 "gonum.org/v1/gonum/graph/internal/linear"
 "gonum.org/v1/gonum/graph/internal/set"
)

// UndirectedCyclesIn returns a set of cycles that forms a cycle basis in the graph g.
```

```
// Any cycle in g can be constructed as a symmetric difference of its elements.
func UndirectedCyclesIn(g graph.Undirected) [][]graph.Node {
 // From "An algorithm for finding a fundamental set of cycles of a graph"
 // https://doi.org/10.1145/363219.363232

 var cycles [][]graph.Node
 done := make(set.Int64s)
 var tree linear.NodeStack
 nodes := g.Nodes()
 for nodes.Next() {
  n := nodes.Node()
  id := n.ID()
  if done.Has(id) {
   continue
  }
  done.Add(id)

  tree = tree[:0]
  tree.Push(n)
  from := sets{id: set.Int64s{}}
  to := map[int64]graph.Node{id: n}

  for tree.Len() != 0 {
   u := tree.Pop()
   uid
:= u.ID()
   adj := from[uid]
   for _, v := range graph.NodesOf(g.From(uid)) {
    vid := v.ID()
    switch {
    case uid == vid:
     cycles = append(cycles, []graph.Node{u})
    case !from.has(vid):
     done.Add(vid)
     to[vid] = u
     tree.Push(v)
     from.add(uid, vid)
    case !adj.Has(vid):
     c := []graph.Node{v, u}
     adj := from[vid]
     p := to[uid]
     for !adj.Has(p.ID()) {
      c = append(c, p)
      p = to[p.ID()]
     }
     c = append(c, p, c[0])
     cycles = append(cycles, c)
     adj.Add(uid)
```

```
    }
   }
  }
 }

 return cycles
}

type sets map[int64]set.Int64s

func (s sets) add(uid, vid int64) {
 e, ok := s[vid]
 if !ok {
  e = make(set.Int64s)
  s[vid] = e
 }
 e.Add(uid)
}

func (s sets) has(uid int64) bool {
 _, ok := s[uid]
 return ok
}
module gonum.org/v1/gonum

go 1.12

require (
 golang.org/x/exp v0.0.0-20190125153040-c74c464bbbf2
 golang.org/x/tools v0.0.0-20190206041539-40960b6deb8e
 gonum.org/v1/netlib v0.0.0-20190313105609-8cb42192e0e0
 gonum.org/v1/plot v0.0.0-20190515093506-e2840ee46a6b
)
graph{{{{{{subgb{}subgf}}}}}}
graph{{diGrapg}}
graph{dS{dG}{dS{dG}{dS{dG}}dG}{dS{dG}}}
graph{{d{{d{d{d}}d}}d}}
graph{{{GRU{{{{GRU{GRR}GRU}{GRU}}}GRR}GRU}{GRU}}}
graph{{DiGrap}{{{{{DiGrap}}}}DiGrap}{{{{{DiGrapr}{{{DiGrapi}DiGrap}}DiGrap}DiGrap}{{{DiGrap}DiG
rap}DiGrap}{{{}DiGrap}DiGrap}{{{DiGrapi}DiGrap}DiGrap}{{""DiGrap}}}DiGrap}DiGrap}
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```

```
package cmplx64

import math "gonum.org/v1/gonum/internal/math32"

// IsInf returns true if either real(x) or imag(x) is an infinity.
func IsInf(x complex64) bool {
 if math.IsInf(real(x), 0) || math.IsInf(imag(x), 0) {
  return true
 }
 return false
}

// Inf returns a complex infinity, complex(+Inf, +Inf).
func Inf() complex64 {
 inf := math.Inf(1)
 return complex(inf, inf)
}
graph{{edg3{{{{edg3{}{edg3}{edg3}}{edg3{edg3}{edg3}{}}}edg5}{{}edg5}{}{}{{{}{}}}}}}
//**
git.rwth-aachen.de/acs/public/ontology/owl/owl2go@v1.1.0
git.rwth-aachen.de/acs/public/ontology/owl/saref@v0.0.0-20200525140909-5b44cbefaa17
git.rwth-aachen.de/acs/public/cloud/mas/clonemap@v0.0.0-20201023111149-5c55954d016e
**//


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package gonum

import (
 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
)

// Dpotrs solves a system of n linear equations A*X = B where A is an nn
// symmetric positive definite matrix and B is an nnrhs matrix. The matrix A is
// represented by its Cholesky factorization
//  A = U*U  if uplo == blas.Upper
//  A = L*L  if uplo == blas.Lower
// as computed by Dpotrf. On entry, B contains the right-hand side matrix B, on
```

```
// return it contains the solution matrix X.
func (Implementation) Dpotrs(uplo blas.Uplo, n, nrhs int, a []float64, lda int, b []float64, ldb int) {
 switch {
 case uplo != blas.Upper && uplo != blas.Lower:
  panic(badUplo)
 case n < 0:
  panic(nLT0)
 case nrhs < 0:
  panic(nrhsLT0)
 case lda < max(1, n):
  panic(badLdA)
 case ldb < max(1, nrhs):
  panic(badLdB)
 }

 // Quick return if possible.
 if
 n == 0 || nrhs == 0 {
  return
 }

 switch {
 case len(a) < (n-1)*lda+n:
  panic(shortA)
 case len(b) < (n-1)*ldb+nrhs:
  panic(shortB)
 }

 bi := blas64.Implementation()

 if uplo == blas.Upper {
  // Solve U * U * X = B where U is stored in the upper triangle of A.

  // Solve U * X = B, overwriting B with X.
  bi.Dtrsm(blas.Left, blas.Upper, blas.Trans, blas.NonUnit, n, nrhs, 1, a, lda, b, ldb)
  // Solve U * X = B, overwriting B with X.
  bi.Dtrsm(blas.Left, blas.Upper, blas.NoTrans, blas.NonUnit, n, nrhs, 1, a, lda, b, ldb)
 } else {
  // Solve L * L * X = B where L is stored in the lower triangle of A.

  // Solve L * X = B, overwriting B with X.
  bi.Dtrsm(blas.Left, blas.Lower, blas.NoTrans, blas.NonUnit, n, nrhs, 1, a, lda, b, ldb)
  // Solve L * X = B, overwriting B with X.
  bi.Dtrsm(blas.Left, blas.Lower, blas.Trans, blas.NonUnit, n, nrhs, 1, a, lda, b, ldb)
 }
}
Graph{{Grap5[]Grap5}Grap5}
```

graph{stric}
graph{<<TDTTDDTTa>>}
graph{{DiG8{DiG2{DiG2}}DiG8{DiG2}}DiG8}
graph{subGrapi{subGrapu}}
graph{{No{No}{No}}}
//** github.com/dropbox/goebpf@v0.0.0-20201020203810-72edb057c378 **//
{{Types "GPL-2.0"}}

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limitations under the License.
graph{{Digraph_}Digraph_}
graph{{GRAP{GRAP}}GRAP{{{GRAP}GRAP}}GRAP}
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package iterator

import "gonum.org/v1/gonum/graph"

// OrderedEdges implements the graph.Edges and graph.EdgeSlicer interfaces.
// The iteration order of OrderedEdges is the order of edges passed to
// NewEdgeIterator.
type OrderedEdges struct {
 idx int
 edges []graph.Edge
}

// NewOrderedEdges returns an OrderedEdges initialized with the provided edges.
func NewOrderedEdges(edges []graph.Edge) *OrderedEdges {
 return &OrderedEdges{idx: -1, edges: edges}
}

// Len returns the remaining number of edges to be iterated over.
func (e *OrderedEdges) Len() int {
 if e.idx >= len(e.edges) {
  return 0
 }
 if e.idx <= 0 {

```
  return len(e.edges)
 }
 return len(e.edges[e.idx:])
}

// Next returns whether the next call of Edge will return a valid edge.
func (e *OrderedEdges) Next() bool {
 if uint(e.idx)+1 < uint(len(e.edges)) {
  e.idx++
  return
 true
 }
 e.idx = len(e.edges)
 return false
}

// Edge returns the current edge of the iterator. Next must have been
// called prior to a call to Edge.
func (e *OrderedEdges) Edge() graph.Edge {
 if e.idx >= len(e.edges) || e.idx < 0 {
  return nil
 }
 return e.edges[e.idx]
}

// EdgeSlice returns all the remaining edges in the iterator and advances
// the iterator.
func (e *OrderedEdges) EdgeSlice() []graph.Edge {
 if e.idx >= len(e.edges) {
  return nil
 }
 idx := e.idx
 if idx == -1 {
  idx = 0
 }
 e.idx = len(e.edges)
 return e.edges[idx:]
}

// Reset returns the iterator to its initial state.
func (e *OrderedEdges) Reset() {
 e.idx = -1
}

// OrderedWeightedEdges implements the graph.Edges and graph.EdgeSlicer interfaces.
// The iteration order of OrderedWeightedEdges is the order of edges passed to
// NewEdgeIterator.
type OrderedWeightedEdges struct {
```

```
 idx   int
 edges []graph.WeightedEdge
}

// NewOrderedWeightedEdges returns an OrderedWeightedEdges initialized with
 the provided edges.
func NewOrderedWeightedEdges(edges []graph.WeightedEdge) *OrderedWeightedEdges {
 return &OrderedWeightedEdges{idx: -1, edges: edges}
}

// Len returns the remaining number of edges to be iterated over.
func (e *OrderedWeightedEdges) Len() int {
 if e.idx >= len(e.edges) {
  return 0
 }
 if e.idx <= 0 {
  return len(e.edges)
 }
 return len(e.edges[e.idx:])
}

// Next returns whether the next call of WeightedEdge will return a valid edge.
func (e *OrderedWeightedEdges) Next() bool {
 if uint(e.idx)+1 < uint(len(e.edges)) {
  e.idx++
  return true
 }
 e.idx = len(e.edges)
 return false
}

// WeightedEdge returns the current edge of the iterator. Next must have been
// called prior to a call to WeightedEdge.
func (e *OrderedWeightedEdges) WeightedEdge() graph.WeightedEdge {
 if e.idx >= len(e.edges) || e.idx < 0 {
  return nil
 }
 return e.edges[e.idx]
}

// WeightedEdgeSlice returns all the remaining edges in the iterator and advances
// the iterator.
func (e *OrderedWeightedEdges)
 WeightedEdgeSlice() []graph.WeightedEdge {
 if e.idx >= len(e.edges) {
  return nil
 }
 idx := e.idx
```

```
 if idx == -1 {
  idx = 0
 }
 e.idx = len(e.edges)
 return e.edges[idx:]
}

// Reset returns the iterator to its initial state.
func (e *OrderedWeightedEdges) Reset() {
 e.idx = -1
}
graph{{SUB7{SUB7}SUB7{SUB7}SUB2}}
graph{{{noc}noc{{{noc}noc}noc}}noc}
Graph{{subgraS{}subgraM}}
graph{.5{.5{.5{.5}.5{.5{.5{.5}.5}}}}}
graph{{{{Subgi{Subgc}}Subgi}Subgi{Subgc}{Subgc}}}
graph{{{stri1{{stri5}}}}}
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package fd_test

import (
 "fmt"
 "math"

 "gonum.org/v1/gonum/diff/fd"
 "gonum.org/v1/gonum/mat"
)

func ExampleDerivative() {
 f := func(x float64) float64 {
  return math.Sin(x)
 }
 // Compute the first derivative of f at 0 using the default settings.
 fmt.Println("f'(0) ", fd.Derivative(f, 0, nil))
 // Compute the first derivative of f at 0 using the forward approximation
 // with a custom step size.
 df := fd.Derivative(f, 0, &fd.Settings{
  Formula: fd.Forward,
  Step:    1e-3,
 })
 fmt.Println("f'(0) ", df)

 f = func(x float64) float64 {
  return math.Pow(math.Cos(x), 3)
 }
```

```
 // Compute the second derivative of f at 0 using
 // the centered approximation, concurrent evaluation,
 // and a known function value at x.
 df = fd.Derivative(f, 0, &fd.Settings{
  Formula:     fd.Central2nd,
  Concurrent:  true,
  OriginKnown: true,
  OriginValue:
 f(0),
 })
 fmt.Println("f''(0) ", df)

 // Output:
 // f'(0)  1
 // f'(0)  0.9999998333333416
 // f''(0)  -2.999999981767587
}

func ExampleJacobian() {
 f := func(dst, x []float64) {
  dst[0] = x[0] + 1
  dst[1] = 5 * x[2]
  dst[2] = 4*x[1]*x[1] - 2*x[2]
  dst[3] = x[2] * math.Sin(x[0])
 }
 jac := mat.NewDense(4, 3, nil)
 fd.Jacobian(jac, f, []float64{1, 2, 3}, &fd.JacobianSettings{
  Formula:    fd.Central,
  Concurrent: true,
 })
 fmt.Printf("J  %.6v\n", mat.Formatted(jac, mat.Prefix("    ")))

 // Output:
 // J        1        0        0
 //          0        0        5
 //          0       16       -2
 //      1.62091        0  0.841471
}
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package topo

// batageljZaversnikGraph is the example graph from
// figure 1 of http://arxiv.org/abs/cs/0310049v1
var batageljZaversnikGraph = []intset{
 0: nil,
```

```
 1: linksTo(2, 3),
 2: linksTo(4),
 3: linksTo(4),
 4: linksTo(5),
 5: nil,

 6:  linksTo(7, 8, 14),
 7:  linksTo(8, 11, 12, 14),
 8:  linksTo(14),
 9:  linksTo(11),
 10: linksTo(11),
 11: linksTo(12),
 12: linksTo(18),
 13: linksTo(14, 15),
 14: linksTo(15, 17),
 15: linksTo(16, 17),
 16: nil,
 17: linksTo(18, 19, 20),
 18: linksTo(19, 20),
 19: linksTo(20),
 20: nil,
}

// intset is an integer set.
type intset map[int64]struct{}

func linksTo(i ...int64) intset {
 if len(i) == 0 {
  return nil
 }
 s := make(intset)
 for _, v := range i {
  s[v] = struct{}{}
 }
 return s
}
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package testlapack

import (
 "math"
 "testing"

 "golang.org/x/exp/rand"
```

```
)

type Dcombssqer interface {
 Dcombssq(scale1, ssq1, scale2, ssq2 float64) (scale, ssq float64)
}

func DcombssqTest(t *testing.T, impl Dcombssqer) {
 const tol = 1e-15

 rnd := rand.New(rand.NewSource(1))
 for i := 0; i < 10; i++ {
  // Generate random, non-negative input.
  scale1 := rnd.Float64()
  ssq1 := rnd.Float64()
  scale2 := rnd.Float64()
  ssq2 := rnd.Float64()
  switch i {
  case 0:
   scale1 = 0
  case 1:
   scale2 = 0
  case 2:
   scale1, scale2 = 0, 0
  }

  // Compute scale and ssq such that
  //  scale^2 * ssq := scale1^2 * ssq1 + scale2^2 * ssq2
  scale, ssq := impl.Dcombssq(scale1, ssq1, scale2, ssq2)

  // Compute the expected result in a non-sophisticated way and
  // compare against the result we got.
  want := scale1*scale1*ssq1
 + scale2*scale2*ssq2
  got := scale * scale * ssq
  if math.Abs(want-got) >= tol {
   t.Errorf("Case %v: unexpected result; got %v, want %v", i, got, want)
  }
 }
}
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package layout

import (
 "gonum.org/v1/gonum/graph"
 "gonum.org/v1/gonum/graph/path"
```

```
 "gonum.org/v1/gonum/mat"
 "gonum.org/v1/gonum/spatial/r2"
 "gonum.org/v1/gonum/stat/mds"
)

// IsomapR2 implements a graph layout algorithm based on the Isomap
// non-linear dimensionality reduction method. Coordinates of nodes
// are computed by finding a Torgerson multidimensional scaling of
// the shortest path distances between all pairs of node in the graph.
// The all pair shortest path distances are calculated using the
// Floyd-Warshall algorithm and so IsomapR2 will not scale to large
// graphs. Graphs with more than one connected component cannot be
// laid out by IsomapR2.
type IsomapR2 struct{}

// Update is the IsomapR2 spatial graph update function.
func (IsomapR2) Update(g graph.Graph, layout LayoutR2) bool {
 nodes := graph.NodesOf(g.Nodes())
 v
 := isomap(g, nodes, 2)
 if v == nil {
  return false
 }

 // FIXME(kortschak): The Layout types do not have the capacity to
 // be cleared in the current API. Is this a problem? I don't know
 // at this stage. It might be if the layout is reused between graphs.
 // Someone may do this.

 for i, n := range nodes {
  layout.SetCoord2(n.ID(), r2.Vec{X: v.At(i, 0), Y: v.At(i, 1)})
 }
 return false
}

func isomap(g graph.Graph, nodes []graph.Node, dims int) *mat.Dense {
 p, ok := path.FloydWarshall(g)
 if !ok {
  return nil
 }

 dist := mat.NewSymDense(len(nodes), nil)
 for i, u := range nodes {
  for j, v := range nodes {
   dist.SetSym(i, j, p.Weight(u.ID(), v.ID()))
  }
 }
 var v mat.Dense
```

```
 k, _ := mds.TorgersonScaling(&v, nil, dist)
 if k < dims {
  return nil
 }

 return &v
}
graph{"\"k\\}\"k\\}\"k\\t"}
graph{{{{DiGg{{DiGg}}}}DiGa{{DiGg}DiGg{{DiGg}}}}}
graph{sub}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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package unit

import (
 "errors"
 "fmt"
 "math"
 "unicode/utf8"
)

// Charge represents an electric charge in Coulombs.
type Charge float64

const Coulomb Charge = 1

// Unit converts the Charge to a *Unit
func (ch Charge) Unit() *Unit {
 return New(float64(ch), Dimensions{
  CurrentDim: 1,
  TimeDim:    1,
 })
}

// Charge allows Charge to implement a Charger interface
func (ch Charge) Charge() Charge {
 return ch
}

// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (ch *Charge) From(u Uniter) error {
 if !DimensionsMatch(u, Coulomb) {
  *ch = Charge(math.NaN())
```

```
 return errors.New("Dimension mismatch")
 }
 *ch = Charge(u.Unit().Value())
 return nil
}

func (ch Charge) Format(fs fmt.State, c rune)
 {
 switch c {
 case 'v':
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", ch, float64(ch))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " C"
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(ch))
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(ch))
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(ch))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(ch))
  }
  fmt.Fprint(fs, unit)
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g C)", c, ch, float64(ch))
 }
}
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// Gonum is a set of packages designed to make writing numerical and
// scientific algorithms productive, performant, and scalable.
//
// Gonum contains libraries for matrices and linear algebra; statistics,
// probability distributions, and sampling; tools for function
// differentiation, integration, and optimization; network creation and
// analysis; and more.
package gonum // import "gonum.org/v1/gonum"
graph{{{{{{No_}No_}No_}}No_}No_}
```

```
graph{{SUBGR}SUBGR{SUBGR}}
graph{diG{diG{diG}}}
graph{E{{{E}E}}}
Graph{{{{S}S}S}{S}S{S}S{S}S}
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package cmplx64

import math "gonum.org/v1/gonum/internal/math32"

// IsNaN returns true if either real(x) or imag(x) is NaN
// and neither is an infinity.
func IsNaN(x complex64) bool {
 switch {
 case math.IsInf(real(x), 0) || math.IsInf(imag(x), 0):
  return false
 case math.IsNaN(real(x)) || math.IsNaN(imag(x)):
  return true
 }
 return false
}

// NaN returns a complex ``not-a-number'' value.
func NaN() complex64 {
 nan := math.NaN()
 return complex(nan, nan)
}
graph{<R><T><R><T><T><R>}
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package c128

import (
 "fmt"
 "testing"
)

func BenchmarkDotUnitary(t *testing.B) {
 for _, test := range []struct {
  name string
```

```
 f    func(x, y []complex128) complex128
 }{
  {"DotcUnitary", DotcUnitary},
  {"DotuUnitary", DotuUnitary},
 } {
  for _, v := range []int64{1, 2, 3, 4, 5, 10, 100, 1e3, 5e3, 1e4, 5e4} {
   t.Run(fmt.Sprintf("%s-%d", test.name, v), func(b *testing.B) {
    x, y := x[:v], y[:v]
    b.SetBytes(256 * v)
    for i := 0; i < b.N; i++ {
     benchSink = test.f(x, y)
    }
   })
  }
 }
}

func BenchmarkDotInc(t *testing.B) {
 for _, test := range []struct {
  name string
  f    func(x, y []complex128, n, incX, incY, ix, iy uintptr) complex128
 }{
  {"DotcInc", DotcInc},
  {"DotuInc", DotuInc},
 } {
  for _, ln := range []int{1, 2, 3, 4, 5, 10, 100, 1e3, 5e3, 1e4, 5e4} {
   for _, inc := range []int{1,
 2, 4, 10, -1, -2, -4, -10} {
    t.Run(fmt.Sprintf("%s-%d-inc%d", test.name, ln, inc), func(b *testing.B) {
     b.SetBytes(int64(256 * ln))
     var idx int
     if inc < 0 {
      idx = (-ln + 1) * inc
     }
     for i := 0; i < b.N; i++ {
      benchSink = test.f(x, y, uintptr(ln),
       uintptr(inc), uintptr(inc),
       uintptr(idx), uintptr(idx))
     }
    })
   }
  }
 }
}
graph{strh{{{strh{{{strh{{strh{{{strd}}{{strh{{{strd}}}}}{{{strd}}}}}}{{{strd}}}}}}}}}
graph{{{G_ G_}G_{G_{G_ G_}G_ G_}G_}}
graph{nw:nw:nw K:nw nw:nw nw:nw K:nw nw:nw nw:nw nw:nw K:nw nw:nw}
```

```
graph{{SUBGRAPo}}
graph{{{{St}}}}
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package testlapack

import (
 "math"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/floats"
)

type Dorgqrer interface {
 Dorg2rer
 Dorgqr(m, n, k int, a []float64, lda int, tau, work []float64, lwork int)
}

func DorgqrTest(t *testing.T, impl Dorgqrer) {
 rnd := rand.New(rand.NewSource(1))
 // TODO(btracey): Base tests off of nb and nx.
 for _, test := range []struct{ m, n, k, lda int }{
  {10, 10, 10, 0},
  {10, 10, 10, 20},
  {30, 10, 10, 0},
  {30, 20, 10, 20},

  {100, 100, 100, 0},
  {100, 100, 50, 0},
  {130, 100, 100, 0},
  {130, 100, 50, 0},
  {100, 100, 100, 150},
  {100, 100, 50, 150},
  {130, 100, 100, 150},
  {130, 100, 50, 150},

  {200, 200, 200, 0},
  {200, 200, 150, 0},
  {230, 200, 200, 0},
  {230, 200, 150, 0},
  {200, 200, 200, 250},
  {200, 200, 150, 250},
  {230, 200, 200, 250},
  {230, 200, 150,
```

```
 250},
 } {
  m := test.m
  n := test.n
  k := test.k
  lda := test.lda
  if lda == 0 {
   lda = n
  }
  a := make([]float64, m*lda)
  for i := range a {
   a[i] = rnd.Float64()
  }
  work := make([]float64, 1)
  tau := make([]float64, n)
  for i := range tau {
   tau[i] = math.NaN()
  }
  // Compute QR factorization.
  impl.Dgeqrf(m, n, a, lda, tau, work, -1)
  work = make([]float64, int(work[0]))
  impl.Dgeqrf(m, n, a, lda, tau, work, len(work))

  aUnblocked := make([]float64, len(a))
  copy(aUnblocked, a)
  for i := range work {
   work[i] = math.NaN()
  }
  impl.Dorg2r(m, n, k, aUnblocked, lda, tau, work)
  // make sure work isn't used before initialized
  for i := range work {
   work[i] = math.NaN()
  }
  impl.Dorgqr(m, n, k, a, lda, tau, work, len(work))
  if !floats.EqualApprox(a, aUnblocked, 1e-10) {
   t.Errorf("Q Mismatch. m = %d, n = %d, k = %d, lda = %d", m, n, k, lda)
  }
 }
}
graph{diV{{diY}}}
graph{Dig_{Dig_}}
graph{subF}
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package testlapack
```

```
import (
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
 "gonum.org/v1/gonum/floats"
)

type Dpotrfer interface {
 Dpotrf(ul blas.Uplo, n int, a []float64, lda int) (ok bool)
}

func DpotrfTest(t *testing.T, impl Dpotrfer) {
 const tol = 1e-13
 rnd := rand.New(rand.NewSource(1))
 bi := blas64.Implementation()
 for _, uplo := range []blas.Uplo{blas.Upper, blas.Lower} {
  for tc, test := range []struct {
   n   int
   lda int
  }{
   {1, 0},
   {2, 0},
   {3, 0},
   {10, 0},
   {30, 0},
   {63, 0},
   {65, 0},
   {127, 0},
   {129, 0},
   {500, 0},
   {1, 10},
   {2, 10},
   {3, 10},
   {10, 20},
   {30, 50},
   {63, 100},
   {65, 100},
   {127, 200},
   {129, 200},
   {500, 600},
  } {
   n := test.n

   // Random diagonal matrix D with positive entries.
   d
```

```
:= make([]float64, n)
 Dlatm1(d, 4, 10000, false, 1, rnd)

 // Construct a positive definite matrix A as
 //  A = U * D * U
 // where U is a random orthogonal matrix.
 lda := test.lda
 if lda == 0 {
  lda = n
 }
 a := make([]float64, n*lda)
 Dlagsy(n, 0, d, a, lda, rnd, make([]float64, 2*n))

 aCopy := make([]float64, len(a))
 copy(aCopy, a)

 ok := impl.Dpotrf(uplo, n, a, lda)
 if !ok {
  t.Errorf("Case %v: unexpected failure for positive definite matrix", tc)
  continue
 }

 switch uplo {
 case blas.Upper:
  for i := 0; i < n; i++ {
   for j := 0; j < i; j++ {
    a[i*lda+j] = 0
   }
  }
 case blas.Lower:
  for i := 0; i < n; i++ {
   for j := i + 1; j < n; j++ {
    a[i*lda+j] = 0
   }
  }
 default:
  panic("bad uplo")
 }

 ans := make([]float64, len(a))
 switch uplo {
 case blas.Upper:
  // Multiply U * U.
  bi.Dsyrk(uplo, blas.Trans, n, n, 1, a, lda, 0, ans, lda)
 case blas.Lower:
  // Multiply L *
L.
  bi.Dsyrk(uplo, blas.NoTrans, n, n, 1, a, lda, 0, ans, lda)
```

```
   }

   match := true
   switch uplo {
   case blas.Upper:
    for i := 0; i < n; i++ {
     for j := i; j < n; j++ {
      if !floats.EqualWithinAbsOrRel(ans[i*lda+j], aCopy[i*lda+j], tol, tol) {
       match = false
      }
     }
    }
   case blas.Lower:
    for i := 0; i < n; i++ {
     for j := 0; j <= i; j++ {
      if !floats.EqualWithinAbsOrRel(ans[i*lda+j], aCopy[i*lda+j], tol, tol) {
       match = false
      }
     }
    }
   }
   if !match {
    t.Errorf("Case %v (uplo=%v,n=%v,lda=%v): unexpected result", tc, uplo, n, lda)
   }

   // Make one element of D negative so that A is not
   // positive definite, and check that Dpotrf fails.
   d[0] *= -1
   Dlagsy(n, 0, d, a, lda, rnd, make([]float64, 2*n))
   ok = impl.Dpotrf(uplo, n, a, lda)
   if ok {
    t.Errorf("Case %v: unexpected success for not positive definite matrix", tc)
   }
  }
 }
}
graph{{{{edge8{{{{edge5}}}edge5}edge5}edge5{edge5}}}}
graph{{NOd{NOr{{{NOr}{NOr}NOd{NOr}}{{NOr}{}NOd{NOr}}}}}}
// SPDX-License-Identifier: Unlicense OR MIT

package material

import (
 "gioui.org/layout"
 "gioui.org/text"
 "gioui.org/unit"
 "gioui.org/widget"
)
```

```
type CheckBox struct {
 checkable
}

func (t *Theme) CheckBox(label string) CheckBox {
 return CheckBox{
  checkable{
   Label:     label,
   Color:     t.Color.Text,
   IconColor: t.Color.Primary,
   Font: text.Font{
    Size: t.TextSize.Scale(14.0 / 16.0),
   },
   Size:              unit.Dp(26),
   shaper:            t.Shaper,
   checkedStateIcon:   t.checkBoxCheckedIcon,
   uncheckedStateIcon: t.checkBoxUncheckedIcon,
  },
 }
}

func (c CheckBox) Layout(gtx *layout.Context, checkBox *widget.CheckBox) {
 c.layout(gtx, checkBox.Checked(gtx))
 checkBox.Layout(gtx)
}
graph{StR{StR}StR{StR}}
graph{DiG{DiG{DiG}}DiG}
graph{{{grap_{{{{grap_}}}grap_{{grap_}}}grap_}grap_}}
// Code generated by "go generate gonum.org/v1/gonum/unit/constant; DO NOT EDIT.

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package constant

import (
 "fmt"
 "testing"
)

func TestElectricConstantFormat(t *testing.T) {
 for _, test := range []struct {
  format string
  want   string
 }{
  {"%v", "8.854187817620389e-12 A^2 s^4 kg^-1 m^-3"},
```

```
  {"%.1v", "9e-12 A^2 s^4 kg^-1 m^-3"},
  {"%50.1v", "                    9e-12 A^2 s^4 kg^-1 m^-3"},
  {"%50v", "        8.854187817620389e-12 A^2 s^4 kg^-1 m^-3"},
  {"%1v", "8.854187817620389e-12 A^2 s^4 kg^-1 m^-3"},
  {"%#v", "constant.electricConstantUnits(8.854187817620389e-12)"},
  {"%s", "%!s(constant.electricConstantUnits=8.854187817620389e-12 A^2 s^4 kg^-1 m^-3)"},
 } {
  got := fmt.Sprintf(test.format, ElectricConstant)
  if got != test.want {
   t.Errorf("Format %q: got: %q want: %q", test.format, got, test.want)
  }
 }
}
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package gonum

import "gonum.org/v1/gonum/blas"

// Dlacpy copies the elements of A specified by uplo into B. Uplo can specify
// a triangular portion with blas.Upper or blas.Lower, or can specify all of the
// elemest with blas.All.
//
// Dlacpy is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dlacpy(uplo blas.Uplo, m, n int, a []float64, lda int, b []float64, ldb int) {
 switch {
 case uplo != blas.Upper && uplo != blas.Lower && uplo != blas.All:
  panic(badUplo)
 case m < 0:
  panic(mLT0)
 case n < 0:
  panic(nLT0)
 case lda < max(1, n):
  panic(badLdA)
 case ldb < max(1, n):
  panic(badLdB)
 }

 if m == 0 || n == 0 {
  return
 }

 switch {
 case len(a) < (m-1)*lda+n:
  panic(shortA)
 case len(b) < (m-1)*ldb+n:
```

```
 panic(shortB)
 }

 switch uplo {
 case blas.Upper:
  for i := 0; i < m; i++
 {
   for j := i; j < n; j++ {
    b[i*ldb+j] = a[i*lda+j]
   }
  }
 case blas.Lower:
  for i := 0; i < m; i++ {
   for j := 0; j < min(i+1, n); j++ {
    b[i*ldb+j] = a[i*lda+j]
   }
  }
 case blas.All:
  for i := 0; i < m; i++ {
   for j := 0; j < n; j++ {
    b[i*ldb+j] = a[i*lda+j]
   }
  }
 }
}
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// +build !noasm,!appengine,!safe

package c128

// AxpyUnitary is
//  for i, v := range x {
//   y[i] += alpha * v
//  }
func AxpyUnitary(alpha complex128, x, y []complex128)

// AxpyUnitaryTo is
//  for i, v := range x {
//   dst[i] = alpha*v + y[i]
//  }
func AxpyUnitaryTo(dst []complex128, alpha complex128, x, y []complex128)

// AxpyInc is
//  for i := 0; i < int(n); i++ {
//   y[iy] += alpha * x[ix]
```

```
//   ix += incX
//   iy += incY
//  }
func AxpyInc(alpha complex128, x, y []complex128, n, incX, incY, ix, iy uintptr)

// AxpyIncTo is
//  for i := 0; i < int(n); i++ {
//   dst[idst] = alpha*x[ix] + y[iy]
//   ix += incX
//   iy += incY
//   idst += incDst
//  }
func AxpyIncTo(dst []complex128, incDst, idst uintptr, alpha complex128, x, y []complex128, n, incX, incY, ix, iy
uintptr)

// DscalUnitary is
//  for i, v := range
 x {
//   x[i] = complex(real(v)*alpha, imag(v)*alpha)
//  }
func DscalUnitary(alpha float64, x []complex128)

// DscalInc is
//  var ix uintptr
//  for i := 0; i < int(n); i++ {
//   x[ix] = complex(real(x[ix])*alpha, imag(x[ix])*alpha)
//   ix += inc
//  }
func DscalInc(alpha float64, x []complex128, n, inc uintptr)

// ScalInc is
//  var ix uintptr
//  for i := 0; i < int(n); i++ {
//   x[ix] *= alpha
//   ix += incX
//  }
func ScalInc(alpha complex128, x []complex128, n, inc uintptr)

// ScalUnitary is
//  for i := range x {
//   x[i] *= alpha
//  }
func ScalUnitary(alpha complex128, x []complex128)

// DotcUnitary is
//  for i, v := range x {
//   sum += y[i] * cmplx.Conj(v)
//  }
```

```
//  return sum
func DotcUnitary(x, y []complex128) (sum complex128)

// DotcInc is
//  for i := 0; i < int(n); i++ {
//   sum += y[iy] * cmplx.Conj(x[ix])
//   ix += incX
//   iy += incY
//  }
//  return sum
func DotcInc(x, y []complex128, n, incX, incY, ix, iy uintptr) (sum complex128)

// DotuUnitary is
//
  for i, v := range x {
//   sum += y[i] * v
//  }
//  return sum
func DotuUnitary(x, y []complex128) (sum complex128)

// DotuInc is
//  for i := 0; i < int(n); i++ {
//   sum += y[iy] * x[ix]
//   ix += incX
//   iy += incY
//  }
//  return sum
func DotuInc(x, y []complex128, n, incX, incY, ix, iy uintptr) (sum complex128)
graph s2{{s4 s2{{s4 s5}}s5}}
graph{A[e="\
"]}
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// Package mathext implements special math functions not implemented by the
// Go standard library.
package mathext // import "gonum.org/v1/gonum/mathext"
graph{{{{{Ed2}}Ed3}}}
graph{{{{{{{}{{}{{{{{}}}}}}}}}}}{}{{{{{{{}}{{{{{{}{{}{{{{{}}}}}}}}}}}}}}}}}
graph{{{EDGEG}}}
Graph{{subgrapg{subgrapg}}}
graph{Stric5{{{{Stric5{Stric5{Stric5}}Stric5}}{Stric5{Stric5}}Stric5}}Stric5}
graph{f[f=DiGr_]DiGr_}
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```

```
package testblas

import (
 "fmt"
 "testing"
)

type Zscaler interface {
 Zscal(n int, alpha complex128, x []complex128, incX int)
}

func ZscalTest(t *testing.T, impl Zscaler) {
 for tc, test := range []struct {
  alpha complex128
  x     []complex128
  want  []complex128
 }{
  {
   alpha: 2 + 5i,
   x:     nil,
   want:  nil,
  },
  {
   alpha: 2 + 5i,
   x:     []complex128{1 + 2i},
   want:  []complex128{-8 + 9i},
  },
  {
   alpha: 2 + 5i,
   x:     []complex128{1 + 2i, 3 + 4i},
   want:  []complex128{-8 + 9i, -14 + 23i},
  },
  {
   alpha: 2 + 5i,
   x:     []complex128{1 + 2i, 3 + 4i, 5 + 6i},
   want:  []complex128{-8 + 9i, -14 + 23i, -20 + 37i},
  },
  {
   alpha: 2 + 5i,
   x:     []complex128{1 + 2i, 3 + 4i, 5 + 6i, 7 + 8i},
   want:  []complex128{-8 + 9i, -14 + 23i, -20 + 37i, -26 + 51i},
  },
  {
   alpha: 2 + 5i,
   x:
    []complex128{1 + 2i, 3 + 4i, 5 + 6i, 7 + 8i, 9 + 10i},
   want:  []complex128{-8 + 9i, -14 + 23i, -20 + 37i, -26 + 51i, -32 + 65i},
  },
```

```
 {
  alpha: 2 + 5i,
  x:     []complex128{1 + 2i, 3 + 4i, 5 + 6i, 7 + 8i, 9 + 10i, 11 + 12i},
  want:  []complex128{-8 + 9i, -14 + 23i, -20 + 37i, -26 + 51i, -32 + 65i, -38 + 79i},
 },
 {
  alpha: 2 + 5i,
  x:     []complex128{1 + 2i, 3 + 4i, 5 + 6i, 7 + 8i, 9 + 10i, 11 + 12i, 13 + 14i},
  want:  []complex128{-8 + 9i, -14 + 23i, -20 + 37i, -26 + 51i, -32 + 65i, -38 + 79i, -44 + 93i},
 },
 {
  alpha: 2 + 5i,
  x:     []complex128{1 + 2i, 3 + 4i, 5 + 6i, 7 + 8i, 9 + 10i, 11 + 12i, 13 + 14i, 15 + 16i},
  want:  []complex128{-8 + 9i, -14 + 23i, -20 + 37i, -26 + 51i, -32 + 65i, -38 + 79i, -44 + 93i, -50 + 107i},
 },
 {
  alpha: 2 + 5i,
  x:     []complex128{1 + 2i, 3 + 4i, 5 + 6i, 7 + 8i, 9 + 10i, 11 + 12i, 13 + 14i, 15 + 16i, 17 + 18i},
  want:  []complex128{-8 + 9i, -14 + 23i, -20 + 37i, -26 + 51i, -32 + 65i, -38 + 79i, -44
 + 93i, -50 + 107i, -56 + 121i},
 },
 {
  alpha: 2 + 5i,
  x:     []complex128{1 + 2i, 3 + 4i, 5 + 6i, 7 + 8i, 9 + 10i, 11 + 12i, 13 + 14i, 15 + 16i, 17 + 18i, 19 + 20i},
  want:  []complex128{-8 + 9i, -14 + 23i, -20 + 37i, -26 + 51i, -32 + 65i, -38 + 79i, -44 + 93i, -50 + 107i, -56 + 121i, -
62 + 135i},
 },
 {
  alpha: 2 + 5i,
  x:     []complex128{1 + 2i, 3 + 4i, 5 + 6i, 7 + 8i, 9 + 10i, 11 + 12i, 13 + 14i, 15 + 16i, 17 + 18i, 19 + 20i, 21 + 22i},
  want:  []complex128{-8 + 9i, -14 + 23i, -20 + 37i, -26 + 51i, -32 + 65i, -38 + 79i, -44 + 93i, -50 + 107i, -56 + 121i, -
62 + 135i, -68 + 149i},
 },
 {
  alpha: 2 + 5i,
  x:     []complex128{1 + 2i, 3 + 4i, 5 + 6i, 7 + 8i, 9 + 10i, 11 + 12i, 13 + 14i, 15 + 16i, 17 + 18i, 19 + 20i, 21 + 22i,
23 + 24i},
  want:  []complex128{-8 + 9i, -14 + 23i, -20 + 37i, -26 + 51i, -32 + 65i, -38 + 79i, -44 + 93i, -50 + 107i, -56 + 121i, -
62 + 135i, -68 + 149i, -74 + 163i},
 },
 {
  alpha: 0,
  x:     []complex128{1 + 2i, 3 + 4i, 5 + 6i, 7
 + 8i, 9 + 10i, 11 + 12i, 13 + 14i, 15 + 16i, 17 + 18i, 19 + 20i, 21 + 22i, 23 + 24i},
  want:  []complex128{0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0},
 },
} {
 n := len(test.x)
```

```
  if len(test.want) != n {
   panic("bad test")
  }
  for _, incX := range []int{-3, -1, 1, 2, 4, 7, 10} {
   x := makeZVector(test.x, incX)
   xCopy := make([]complex128, len(x))
   copy(xCopy, x)

   want := makeZVector(test.want, incX)

   impl.Zscal(n, test.alpha, x, incX)

   prefix := fmt.Sprintf("Case %v (n=%v,incX=%v):", tc, n, incX)

   if incX < 0 {
    if !zsame(x, xCopy) {
     t.Errorf("%v: unexpected modification of x\nwant %v\ngot %v", prefix, want, x)
    }
    continue
   }
   if !zsame(x, want) {
    t.Errorf("%v: unexpected result:\nwant: %v\ngot: %v", prefix, want, x)
   }
  }
 }
}
graph{{di}di}
graph{{stric}stric{stric{stric{stric}}}}
graph{{NODd}NODd{NODd}NODd}
graph{EDGEG{{{EDGEG}EDGEG{EDGEG}{EDGEG}EDGEG{EDGEG}{}}}}
      SUBROUTINE ZWRSK(ZRR, ZRI, FNU, KODE, N, YR, YI, NZ, CWR, CWI,
     * TOL, ELIM, ALIM)
C***BEGIN PROLOGUE  ZWRSK
C***REFER TO  ZBESI,ZBESK
C
C     ZWRSK COMPUTES THE I BESSEL FUNCTION FOR RE(Z).GE.0.0 BY
C     NORMALIZING THE I FUNCTION RATIOS FROM ZRATI BY THE WRONSKIAN
C
C***ROUTINES CALLED  D1MACH,ZBKNU,ZRATI,ZABS
C***END PROLOGUE  ZWRSK
C     COMPLEX CINU,CSCL,CT,CW,C1,C2,RCT,ST,Y,ZR
      DOUBLE PRECISION ACT, ACW, ALIM, ASCLE, CINUI, CINUR, CSCLR, CTI,
     * CTR, CWI, CWR, C1I, C1R, C2I, C2R, ELIM, FNU, PTI, PTR, RACT,
     * STI, STR, TOL, YI, YR, ZRI, ZRR, ZABS, D1MACH
      INTEGER I, KODE, N, NW, NZ
      DIMENSION YR(N), YI(N), CWR(2), CWI(2)
C-----------------------------------------------------------------------
C     I(FNU+I-1,Z) BY BACKWARD RECURRENCE FOR RATIOS
```

```
C     Y(I)=I(FNU+I,Z)/I(FNU+I-1,Z) FROM CRATI NORMALIZED BY THE
C     WRONSKIAN WITH K(FNU,Z) AND K(FNU+1,Z) FROM CBKNU.
C-----------------------------------------------------------------------
      NZ = 0
       CALL ZBKNU(ZRR, ZRI, FNU, KODE, 2, CWR, CWI, NW, TOL, ELIM, ALIM)
      IF (NW.NE.0) GO TO 50
      CALL ZRATI(ZRR, ZRI, FNU, N, YR, YI, TOL)
C-----------------------------------------------------------------------
C     RECUR FORWARD ON I(FNU+1,Z) = R(FNU,Z)*I(FNU,Z),
C     R(FNU+J-1,Z)=Y(J),  J=1,...,N
C-----------------------------------------------------------------------
      CINUR = 1.0D0
      CINUI = 0.0D0
      IF (KODE.EQ.1) GO TO 10
      CINUR = DCOS(ZRI)
      CINUI = DSIN(ZRI)
   10 CONTINUE
C-----------------------------------------------------------------------
C     ON LOW EXPONENT MACHINES THE K FUNCTIONS CAN BE CLOSE TO BOTH
C     THE UNDER AND OVERFLOW LIMITS AND THE NORMALIZATION MUST BE
C     SCALED TO PREVENT OVER OR UNDERFLOW. CUOIK HAS DETERMINED THAT
C     THE RESULT IS ON SCALE.
C-----------------------------------------------------------------------
      ACW = ZABS(CMPLX(CWR(2),CWI(2),kind=KIND(1.0D0)))
      ASCLE = 1.0D+3*D1MACH(1)/TOL
      CSCLR
 = 1.0D0
      IF (ACW.GT.ASCLE) GO TO 20
      CSCLR = 1.0D0/TOL
      GO TO 30
   20 CONTINUE
      ASCLE = 1.0D0/ASCLE
      IF (ACW.LT.ASCLE) GO TO 30
      CSCLR = TOL
   30 CONTINUE
      C1R = CWR(1)*CSCLR
      C1I = CWI(1)*CSCLR
      C2R = CWR(2)*CSCLR
      C2I = CWI(2)*CSCLR
      STR = YR(1)
      STI = YI(1)
C-----------------------------------------------------------------------
C     CINU=CINU*(CONJG(CT)/CABS(CT))*(1.0D0/CABS(CT) PREVENTS
C     UNDER- OR OVERFLOW PREMATURELY BY SQUARING CABS(CT)
C-----------------------------------------------------------------------
      PTR = STR*C1R - STI*C1I
      PTI = STR*C1I + STI*C1R
      PTR = PTR + C2R
```

```
      PTI = PTI + C2I
      CTR = ZRR*PTR - ZRI*PTI
      CTI = ZRR*PTI + ZRI*PTR
      ACT = ZABS(CMPLX(CTR,CTI,kind=KIND(1.0D0)))
      RACT = 1.0D0/ACT
      CTR = CTR*RACT
      CTI = -CTI*RACT
      PTR = CINUR*RACT
      PTI = CINUI*RACT
      CINUR = PTR*CTR - PTI*CTI
      CINUI = PTR*CTI + PTI*CTR
      YR(1) = CINUR*CSCLR
       YI(1) = CINUI*CSCLR
      IF (N.EQ.1) RETURN
      DO 40 I=2,N
        PTR = STR*CINUR - STI*CINUI
        CINUI = STR*CINUI + STI*CINUR
        CINUR = PTR
        STR = YR(I)
        STI = YI(I)
        YR(I) = CINUR*CSCLR
        YI(I) = CINUI*CSCLR
   40 CONTINUE
      RETURN
   50 CONTINUE
      NZ = -1
      IF(NW.EQ.(-2)) NZ=-2
      RETURN
      END
graph{Nod{Nod{Nod}No}Nod{Nod}}
// Copyright 2014 The Gonum Authors. All rights reserved.
// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

package multi_test

import (
 "math"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/graph"
 "gonum.org/v1/gonum/graph/internal/set"
 "gonum.org/v1/gonum/graph/iterator"
 "gonum.org/v1/gonum/graph/multi"
 "gonum.org/v1/gonum/graph/testgraph"
)
```

```
func directedBuilder(nodes []graph.Node, edges []testgraph.WeightedLine, _, _ float64) (g graph.Graph, n
[]graph.Node, e []testgraph.Edge, s, a float64, ok bool) {
 seen := set.NewNodes()
 dg := multi.NewDirectedGraph()
 for _, n := range nodes {
  seen.Add(n)
  dg.AddNode(n)
 }
 for _, edge := range edges {
  f := dg.Node(edge.From().ID())
  if f == nil {
   f = edge.From()
  }
  t := dg.Node(edge.To().ID())
  if t == nil {
   t = edge.To()
  }
  cl := multi.Line{F: f, T: t, UID: edge.ID()}
  seen.Add(cl.F)
  seen.Add(cl.T)
  e = append(e, cl)
  dg.SetLine(cl)
 }
 if len(seen)
 != 0 {
  n = make([]graph.Node, 0, len(seen))
 }
 for _, sn := range seen {
  n = append(n, sn)
 }
 return dg, n, e, math.NaN(), math.NaN(), true
}

func TestDirected(t *testing.T) {
 t.Run("EdgeExistence", func(t *testing.T) {
  testgraph.EdgeExistence(t, directedBuilder)
 })
 t.Run("LineExistence", func(t *testing.T) {
  testgraph.LineExistence(t, directedBuilder, true)
 })
 t.Run("NodeExistence", func(t *testing.T) {
  testgraph.NodeExistence(t, directedBuilder)
 })
 t.Run("ReturnAdjacentNodes", func(t *testing.T) {
  testgraph.ReturnAdjacentNodes(t, directedBuilder, true)
 })
 t.Run("ReturnAllLines", func(t *testing.T) {
```

```
 testgraph.ReturnAllLines(t, directedBuilder, true)
})
t.Run("ReturnAllNodes", func(t *testing.T) {
 testgraph.ReturnAllNodes(t, directedBuilder, true)
})
t.Run("ReturnNodeSlice", func(t *testing.T) {
 testgraph.ReturnNodeSlice(t, directedBuilder, true)
})

t.Run("AddNodes", func(t *testing.T) {
 testgraph.AddNodes(t, multi.NewDirectedGraph(), 100)
})
t.Run("AddArbitraryNodes",
func(t *testing.T) {
 testgraph.AddArbitraryNodes(t,
  multi.NewDirectedGraph(),
  testgraph.NewRandomNodes(100, 1, func(id int64) graph.Node { return multi.Node(id) }),
 )
})
t.Run("RemoveNodes", func(t *testing.T) {
 g := multi.NewDirectedGraph()
 it := testgraph.NewRandomNodes(100, 1, func(id int64) graph.Node { return multi.Node(id) })
 for it.Next() {
  g.AddNode(it.Node())
 }
 it.Reset()
 rnd := rand.New(rand.NewSource(1))
 for it.Next() {
  u := it.Node()
  d := rnd.Intn(5)
  vit := g.Nodes()
  for d >= 0 && vit.Next() {
   v := vit.Node()
   d--
   g.SetLine(g.NewLine(u, v))
  }
 }
 testgraph.RemoveNodes(t, g)
})
t.Run("AddLines", func(t *testing.T) {
 testgraph.AddLines(t, 100,
  multi.NewDirectedGraph(),
  func(id int64) graph.Node { return multi.Node(id) },
  true, // Can update nodes.
 )
})
t.Run("RemoveLines", func(t *testing.T) {
 g := multi.NewDirectedGraph()
```

```
 it := testgraph.NewRandomNodes(100, 1, func(id int64)
graph.Node { return multi.Node(id) })
 for it.Next() {
  g.AddNode(it.Node())
 }
 it.Reset()
 var lines []graph.Line
 rnd := rand.New(rand.NewSource(1))
 for it.Next() {
  u := it.Node()
  d := rnd.Intn(5)
  vit := g.Nodes()
  for d >= 0 && vit.Next() {
   v := vit.Node()
   d--
   l := g.NewLine(u, v)
   g.SetLine(l)
   lines = append(lines, l)
  }
 }
 rnd.Shuffle(len(lines), func(i, j int) {
  lines[i], lines[j] = lines[j], lines[i]
 })
 testgraph.RemoveLines(t, g, iterator.NewOrderedLines(lines))
})
}

// Tests Issue #27
func TestEdgeOvercounting(t *testing.T) {
 g := generateDummyGraph()

 if neigh := graph.NodesOf(g.From(int64(2))); len(neigh) != 2 {
  t.Errorf("Node 2 has incorrect number of neighbors got neighbors %v (count %d), expected 2 neighbors {0,1}",
neigh, len(neigh))
 }
}

func generateDummyGraph() *multi.DirectedGraph {
 nodes := [4]struct{ srcID, targetID int }{
  {2, 1},
  {1, 0},
  {2, 0},
  {0, 2},
 }

 g := multi.NewDirectedGraph()

 for
```

```
 i, n := range nodes {
  g.SetLine(multi.Line{F: multi.Node(n.srcID), T: multi.Node(n.targetID), UID: int64(i)})
 }

 return g
}

// Test for issue #123 https://github.com/gonum/graph/issues/123
func TestIssue123DirectedGraph(t *testing.T) {
 defer func() {
  if r := recover(); r != nil {
   t.Errorf("unexpected panic: %v", r)
  }
 }()
 g := multi.NewDirectedGraph()

 n0 := g.NewNode()
 g.AddNode(n0)

 n1 := g.NewNode()
 g.AddNode(n1)

 g.RemoveNode(n0.ID())

 n2 := g.NewNode()
 g.AddNode(n2)
}
graph{dig_}
graph{"\
"""\
"""\
"""\
"}
graph{{{{{Digra_{Digra_}}}}}}
graph{{"""""_""_""_""_""c""""""_""_""_""_""_""_""_1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_Z
AB_8tO9W}""""""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4z on zero
ValuetO9W}""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""_3_3VO1_1w
gYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""klS5u4T4zbq9VH7G1_ZAB_8tynklS5u4T4
zbq9VH7G1_ZAB_8tO9W}""_3_3VO1_1wgYc1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""_3_3VO1_1wg
Yc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_iry
nklS5u4T4zbq9VH7G1_ZAB_}8tO9W}""""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_Z
AB_8tO9W}""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""_O_3VO1_1w
gYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_ir
ynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""_3_3VO1_1wgYc8kRij681_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZA
B8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_iry
nklS5u4T4zbq9VH7G1_ZAB_8tO9W}""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB
_8tO9W}""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""_3_3VO1_1wgYc
8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u
```

4T4zbq9VH7G1_ZAB_8tO9W}""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}""_3_3VO1_1wgYc8kRij8q8_1PyG1YO0_irynklS5u4T4zbq9VH7G1_ZAB_8tO9W}"}}
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// license that can be found in the LICENSE file.

```
package testblas

import (
 "fmt"
 "testing"
)

type Zdotcer interface {
 Zdotc(n int, x []complex128, incX int, y []complex128, incY int) complex128
}

func ZdotcTest(t *testing.T, impl Zdotcer) {
 for tc, test := range []struct {
  x, y []complex128

  want    complex128 // Result when both increments have the same sign.
  wantRev complex128 // Result when the increments have opposite sign.
 }{
  {
   x:       nil,
   y:       nil,
   want:    0,
   wantRev: 0,
  },
  {
   x:       []complex128{1 + 2i},
   y:       []complex128{30 + 31i},
   want:    92 - 29i,
   wantRev: 92 - 29i,
  },
  {
   x:       []complex128{1 + 2i, 3 + 4i},
   y:       []complex128{30 + 31i, 33 + 34i},
   want:    327 - 59i,
   wantRev: 315 - 59i,
  },
  {
   x:       []complex128{1 + 2i, 3 + 4i, 5 + 6i},
```

```
  y:      []complex128{30 + 31i, 33 + 34i,
 36 + 37i},
  want:    729 - 90i,
  wantRev: 681 - 90i,
 },
 {
  x:      []complex128{1 + 2i, 3 + 4i, 5 + 6i, 7 + 8i},
  y:      []complex128{30 + 31i, 33 + 34i, 36 + 37i, 39 + 40i},
  want:    1322 - 122i,
  wantRev: 1202 - 122i,
 },
 {
  x:      []complex128{1 + 2i, 3 + 4i, 5 + 6i, 7 + 8i, 9 + 10i},
  y:      []complex128{30 + 31i, 33 + 34i, 36 + 37i, 39 + 40i, 42 + 43i},
  want:    2130 - 155i,
  wantRev: 1890 - 155i,
 },
 {
  x:      []complex128{1 + 2i, 3 + 4i, 5 + 6i, 7 + 8i, 9 + 10i, 11 + 12i},
  y:      []complex128{30 + 31i, 33 + 34i, 36 + 37i, 39 + 40i, 42 + 43i, 45 + 46i},
  want:    3177 - 189i,
  wantRev: 2757 - 189i,
 },
 {
  x:      []complex128{1 + 2i, 3 + 4i, 5 + 6i, 7 + 8i, 9 + 10i, 11 + 12i, 13 + 14i},
  y:      []complex128{30 + 31i, 33 + 34i, 36 + 37i, 39 + 40i, 42 + 43i, 45 + 46i, 48 + 49i},
  want:    4487 - 224i,
  wantRev: 3815 - 224i,
 },
 {
  x:      []complex128{1 + 2i, 3 + 4i, 5 + 6i, 7 + 8i, 9 + 10i, 11 + 12i, 13 + 14i,
 15 + 16i},
  y:      []complex128{30 + 31i, 33 + 34i, 36 + 37i, 39 + 40i, 42 + 43i, 45 + 46i, 48 + 49i, 51 + 52i},
  want:    6084 - 260i,
  wantRev: 5076 - 260i,
 },
 {
  x:      []complex128{1 + 2i, 3 + 4i, 5 + 6i, 7 + 8i, 9 + 10i, 11 + 12i, 13 + 14i, 15 + 16i, 17 + 18i},
  y:      []complex128{30 + 31i, 33 + 34i, 36 + 37i, 39 + 40i, 42 + 43i, 45 + 46i, 48 + 49i, 51 + 52i, 54 + 55i},
  want:    7992 - 297i,
  wantRev: 6552 - 297i,
 },
 {
  x:      []complex128{1 + 2i, 3 + 4i, 5 + 6i, 7 + 8i, 9 + 10i, 11 + 12i, 13 + 14i, 15 + 16i, 17 + 18i, 19 + 20i},
  y:      []complex128{30 + 31i, 33 + 34i, 36 + 37i, 39 + 40i, 42 + 43i, 45 + 46i, 48 + 49i, 51 + 52i, 54 + 55i, 57 +
58i},
  want:    10235 - 335i,
  wantRev: 8255 - 335i,
```

```
  },
  {
   x:      []complex128{1 + 2i, 3 + 4i, 5 + 6i, 7 + 8i, 9 + 10i, 11 + 12i, 13 + 14i, 15 + 16i, 17 + 18i, 19 + 20i, 21 + 22i},
   y:      []complex128{30 + 31i, 33 + 34i, 36 + 37i, 39 + 40i, 42 + 43i, 45 + 46i, 48 + 49i, 51 + 52i, 54 + 55i,
 57 + 58i, 60 + 61i},
   want:    12837 - 374i,
   wantRev: 10197 - 374i,
  },
  {
   x:      []complex128{1 + 2i, 3 + 4i, 5 + 6i, 7 + 8i, 9 + 10i, 11 + 12i, 13 + 14i, 15 + 16i, 17 + 18i, 19 + 20i, 21 + 22i,
23 + 24i},
   y:      []complex128{30 + 31i, 33 + 34i, 36 + 37i, 39 + 40i, 42 + 43i, 45 + 46i, 48 + 49i, 51 + 52i, 54 + 55i, 57 + 58i,
60 + 61i, 63 + 64i},
   want:    15822 - 414i,
   wantRev: 12390 - 414i,
  },
 } {
  n := len(test.x)
  if len(test.y) != n {
   panic("bad test")
  }
  for _, inc := range allPairs([]int{-7, -3, 1, 13}, []int{-11, -5, 1, 17}) {
   incX := inc[0]
   incY := inc[1]

   x := makeZVector(test.x, incX)
   xCopy := make([]complex128, len(x))
   copy(xCopy, x)

   y := makeZVector(test.y, incY)
   yCopy := make([]complex128, len(y))
   copy(yCopy, y)

   want := test.want
   if incX*incY < 0 {
    want = test.wantRev
   }

   got := impl.Zdotc(n, x, incX, y, incY)

   prefix := fmt.Sprintf("Case %v (incX=%v,incY=%v):", tc, incX, incY)

   if !zsame(x,
 xCopy) {
    t.Errorf("%v: unexpected modification of x", prefix)
   }
   if !zsame(y, yCopy) {
    t.Errorf("%v: unexpected modification of y", prefix)
```

```
   }

   if got != want {
    t.Errorf("%v: unexpected result. want %v, got %v", prefix, want, got)
   }
  }
 }
}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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// license that can be found in the LICENSE file.

package unit

import (
 "fmt"
 "testing"
)

func TestRadioactivityFormat(t *testing.T) {
 for _, test := range []struct {
  value  Radioactivity
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 Bq"},
  {1.23456789, "%.1v", "1 Bq"},
  {1.23456789, "%20.1v", "                1 Bq"},
  {1.23456789, "%20v", "       1.23456789 Bq"},
  {1.23456789, "%1v", "1.23456789 Bq"},
  {1.23456789, "%#v", "unit.Radioactivity(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Radioactivity=1.23456789 Bq)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
graph{{ED_}ED_{ED_{{ED_}ED_{ED_{ED_}}ED_}}}
Graph{{{subgra6{{{subgra4{{subgra6{{{subgra4{subgra4}}}}{subgr{subgra4{subgra2}}}}{subgra4{subgra4{{s
ubgra4{subgra4}}}}}}}}{subgr{subgra4{subgra4}}}}{subgra4{subgra4{{subgra4{subgra4}}}}}}}
graph{{<<=>=>}<<=>=>}
graph{{{{a{{SubGrap{{SubGrap{{SubGrap}}}}}}{{SubGrap}}}}}}
graph{<<NN>>}
```

digraph{nodee[]noded->noded->nodee}
// SPDX-License-Identifier: Unlicense OR MIT

/*
Package storage implements read and write storage permissions
on mobile devices.

Android

The following entries will be added to AndroidManifest.xml:

```
<uses-permission android:name="android.permission.READ_EXTERNAL_STORAGE"/>
<uses-permission android:name="android.permission.WRITE_EXTERNAL_STORAGE"/>
```

READ_EXTERNAL_STORAGE and WRITE_EXTERNAL_STORAGE are "dangerous" permissions.
See documentation for package gioui.org/app/permission for more information.
*/
package storage
//** github.com/libp2p/hydra-booster@v0.7.3 **//

{{Types "MIT Apache-2.0"}}

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MIT: https://www.opensource.org/licenses/mit
Apache-2.0: https://www.apache.org/licenses/license-2.0
graph{Stm:Stm O}
graph{<<gggg>>}
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// license that can be found in the LICENSE file.

// Ensure changes made to blas/native are reflected in blas/cgo where relevant.

/*
Package gonum is a Go implementation of the BLAS API. This implementation
panics when the input arguments are invalid as per the standard, for example
if a vector increment is zero. Note that the treatment of NaN values
is not specified, and differs among the BLAS implementations.
gonum.org/v1/gonum/blas/blas64 provides helpful wrapper functions to the BLAS
interface. The rest of this text describes the layout of the data for the input types.

Note that in the function documentation, x[i] refers to the ith element
of the vector, which will be different from the ith element of the slice if

incX != 1.

See http://www.netlib.org/lapack/explore-html/d4/de1/_l_i_c_e_n_s_e_source.html
for more license information.

Vector arguments are effectively
 strided slices. They have two input arguments,
a number of elements, n, and an increment, incX. The increment specifies the
distance between elements of the vector. The actual Go slice may be longer
than necessary.
The increment may be positive or negative, except in functions with only
a single vector argument where the increment may only be positive. If the increment
is negative, s[0] is the last element in the slice. Note that this is not the same
as counting backward from the end of the slice, as len(s) may be longer than
necessary. So, for example, if n = 5 and incX = 3, the elements of s are
 [0 * * 1 * * 2 * * 3 * * 4 * * * ...]
where elements are never accessed. If incX = -3, the same elements are
accessed, just in reverse order (4, 3, 2, 1, 0).

Dense matrices are specified by a number of rows, a number of columns, and a stride.
The stride specifies the number of entries in the slice between the first element
of successive rows. The stride must be at least as large as the number
 of columns
but may be longer.
 [a00 ... a0n a0* ... a1stride-1 a21 ... amn am* ... amstride-1]
Thus, dense[i*ld + j] refers to the {i, j}th element of the matrix.

Symmetric and triangular matrices (non-packed) are stored identically to Dense,
except that only elements in one triangle of the matrix are accessed.

Packed symmetric and packed triangular matrices are laid out with the entries
condensed such that all of the unreferenced elements are removed. So, the upper triangular
matrix
```
[
  1  2  3
  0  4  5
  0  0  6
]
```
and the lower-triangular matrix
```
[
  1  0  0
  2  3  0
  4  5  6
]
```
will both be compacted as [1 2 3 4 5 6]. The (i, j) element of the original
dense matrix can be found at element i*n - (i-1)*i/2 + j for upper triangular,
and at element i * (i+1) /2 + j for lower triangular.

```
Banded matrices are laid out in a compact format, constructed by removing the
zeros in the rows and aligning the diagonals. For example, the matrix
 [
   1  2  3  0  0  0

   4  5  6  7  0  0
   0  8  9 10 11  0
   0  0 12 13 14 15
   0  0  0 16 17 18
   0  0  0  0 19 20
 ]

implicitly becomes ( entries are never accessed)
 [
    *  1  2  3
    4  5  6  7
    8  9 10 11
   12 13 14 15
   16 17 18  *
   19 20  *  *
 ]
which is given to the BLAS routine as [ 1 2 3 4 ...].

See http://www.crest.iu.edu/research/mtl/reference/html/banded.html
for more information
*/
package gonum // import "gonum.org/v1/gonum/blas/gonum"
graph{diV{{{{{{{diY}}diY}}diV}}diY}}diV}
graph{<><><><><><><><><>}
Graph{Sun{Sur{Sur}{Sur}{Sun{Sur}}}}
graph{N_{N_}}
graph{Grapu{Grapu}}
graph{subG}
digraph{{digrape}{digrape}{digrape}{digrape}{digrape}{digrape}{}}
graph{gra}
// Copyright 2018 The Gonum Authors. All rights reserved.
// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

package testlapack

import (
 "fmt"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
```

```
 "gonum.org/v1/gonum/blas/blas64"
)

type Dpotrser interface {
 Dpotrs(uplo blas.Uplo, n, nrhs int, a []float64, lda int, b []float64, ldb int)

 Dpotrf(uplo blas.Uplo, n int, a []float64, lda int) bool
}

func DpotrsTest(t *testing.T, impl Dpotrser) {
 const tol = 1e-14

 rnd := rand.New(rand.NewSource(1))
 bi := blas64.Implementation()

 for _, uplo := range []blas.Uplo{blas.Upper, blas.Lower} {
  for _, n := range []int{1, 2, 5} {
   for _, nrhs := range []int{1, 2, 5, 10} {
    for _, ld := range []struct{ a, b int }{
     {n, nrhs},
     {n + 7, nrhs},
     {n, nrhs + 3},
     {n + 7, nrhs + 3},
    } {
     // Construct a random SPD matrix A by first making a symmetric matrix
     // and then ensuring that it is diagonally
 dominant.
     a := nanGeneral(n, n, ld.a)
     for i := 0; i < n; i++ {
      for j := i; j < n; j++ {
       v := rnd.Float64()
       a.Data[i*a.Stride+j] = v
       a.Data[j*a.Stride+i] = v
      }
     }
     for i := 0; i < n; i++ {
      a.Data[i*a.Stride+i] += float64(n)
     }

     // Generate a random solution X.
     want := nanGeneral(n, nrhs, ld.b)
     for i := 0; i < n; i++ {
      for j := 0; j < nrhs; j++ {
       want.Data[i*want.Stride+j] = rnd.NormFloat64()
      }
     }

     // Compute the right-hand side matrix as A * X.
```

```
    b := nanGeneral(n, nrhs, ld.b)
    bi.Dgemm(blas.NoTrans, blas.NoTrans, n, nrhs, n, 1, a.Data, a.Stride, want.Data, want.Stride, 0, b.Data, b.Stride)

    // Compute the Cholesky decomposition of A.
    ok := impl.Dpotrf(uplo, n, a.Data, a.Stride)
    if !ok {
     panic("bad test")
    }

    aCopy := cloneGeneral(a)

    // Solve A * X = B.
    impl.Dpotrs(uplo, n, nrhs, a.Data, a.Stride, b.Data, b.Stride)

    name := fmt.Sprintf("uplo=%v,n=%v,nrhs=%v,lda=%v,ldb=%v",
 uplo, n, nrhs, a.Stride, b.Stride)

    if !generalOutsideAllNaN(a) {
     t.Errorf("%v: out-of-range modification of A", name)
    }
    if !equalApproxGeneral(a, aCopy, 0) {
     t.Errorf("%v: unexpected modification of A", name)
    }
    if !generalOutsideAllNaN(b) {
     t.Errorf("%v: out-of-range modification of B", name)
    }
    if !equalApproxGeneral(b, want, tol) {
     t.Errorf("%v: unexpected result\ngot  %v\nwant %v", name, b, want)
    }
   }
  }
 }
}
graph{STRICS{{STRICS}{STRICS{{STRICS{STRICI}}}}}}
graph{{{subg}subGrapc}}
digraph{node_->node_;node_[l=""]node_[l=""]node_->node_ node_[l=""]node_->node_ node_[l=""]node_->node_
node_[l=""]node_->node_ node_[l=""]node_->node_ node_[l=""]node_->node_ node_[l=""]node_->node_
node_[l=""]node_->node_ node_[l=""]node_->node_ node_[l=""]node_->node_ node_[l=""]node_->node_->2}
// SPDX-License-Identifier: Unlicense OR MIT

package fling

import (
 "math"
 "runtime"
 "time"
```

```
 "gioui.org/unit"
)

type Animation struct {
 // Current offset in pixels.
 x float32
 // Initial time.
 t0 time.Time
 // Initial velocity in pixels pr second.
 v0 float32
}

var (
 // Pixels/second.
 minFlingVelocity = unit.Dp(50)
 maxFlingVelocity = unit.Dp(8000)
)

const (
 thresholdVelocity = 1
)

// Start a fling given a starting velocity. Returns whether a
// fling was started.
func (f *Animation) Start(c unit.Converter, now time.Time, velocity float32) bool {
 min := float32(c.Px(minFlingVelocity))
 v := velocity
 if -min <= v && v <= min {
  return false
 }
 max := float32(c.Px(maxFlingVelocity))
 if v > max {
  v = max
 } else if v < -max {
  v = -max
 }
 f.init(now, v)
 return true
}

func (f *Animation) init(now time.Time, v0 float32) {
 f.t0 = now
 f.v0 = v0
 f.x = 0
}

func (f *Animation) Active() bool {
 return f.v0 != 0
```

```
}

// Tick computes and returns a fling distance since
//
 the last time Tick was called.
func (f *Animation) Tick(now time.Time) int {
 if !f.Active() {
  return 0
 }
 var k float32
 if runtime.GOOS == "darwin" {
  k = -2 // iOS
 } else {
  k = -4.2 // Android and default
 }
 t := now.Sub(f.t0)
 // The acceleration x''(t) of a point mass with a drag
 // force, f, proportional with velocity, x'(t), is
 // governed by the equation
 //
 // x''(t) = kx'(t)
 //
 // Given the starting position x(0) = 0, the starting
 // velocity x'(0) = v0, the position is then
 // given by
 //
 // x(t) = v0*e^(k*t)/k - v0/k
 //
 ekt := float32(math.Exp(float64(k) * t.Seconds()))
 x := f.v0*ekt/k - f.v0/k
 dist := x - f.x
 idist := int(dist)
 f.x += float32(idist)
 // Solving for the velocity x'(t) gives us
 //
 // x'(t) = v0*e^(k*t)
 v := f.v0 * ekt
 if -thresholdVelocity < v && v < thresholdVelocity {
  f.v0 = 0
 }
 return idist
}
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// license that can be found in the LICENSE file.

// Package error provides generated internal error functions for DOT parsing.
package errors // import "gonum.org/v1/gonum/graph/formats/dot/internal/errors"
```

```
*> \brief \b XERBLA
*
*  =========== DOCUMENTATION ===========
*
* Online html documentation available at
*           http://www.netlib.org/lapack/explore-html/
*
*> \htmlonly
*> Download XERBLA + dependencies
*> <a href="http://www.netlib.org/cgi-bin/netlibfiles.tgz?format=tgz&filename=/lapack/lapack_routine/xerbla.f">
*> [TGZ]</a>
*> <a href="http://www.netlib.org/cgi-bin/netlibfiles.zip?format=zip&filename=/lapack/lapack_routine/xerbla.f">
*> [ZIP]</a>
*> <a href="http://www.netlib.org/cgi-bin/netlibfiles.txt?format=txt&filename=/lapack/lapack_routine/xerbla.f">
*> [TXT]</a>
*> \endhtmlonly
*
*  Definition:
*  ===========
*
*      SUBROUTINE XERBLA( SRNAME, INFO )
*
*      .. Scalar Arguments ..
*      CHARACTER*(*)      SRNAME
*      INTEGER            INFO
*      ..
*
*
*> \par Purpose:
*  =============
*>
*> \verbatim
*>
*> XERBLA  is an error handler for the LAPACK routines.
*> It is called by an LAPACK routine if an input parameter has an
*> invalid value.  A message
 is printed and execution stops.
*>
*> Installers may consider modifying the STOP statement in order to
*> call system-specific exception-handling facilities.
*> \endverbatim
*
*  Arguments:
*  ==========
*
*> \param[in] SRNAME
*> \verbatim
*>          SRNAME is CHARACTER*(*)
```

```
*>          The name of the routine which called XERBLA.
*> \endverbatim
*>
*> \param[in] INFO
*> \verbatim
*>          INFO is INTEGER
*>          The position of the invalid parameter in the parameter list
*>          of the calling routine.
*> \endverbatim
*
*  Authors:
*  ========
*
*> \author Univ. of Tennessee
*> \author Univ. of California Berkeley
*> \author Univ. of Colorado Denver
*> \author NAG Ltd.
*
*> \date November 2011
*
*> \ingroup auxOTHERauxiliary
*
*  =====================================================================
      SUBROUTINE XERBLA( SRNAME, INFO )
*
*  -- LAPACK auxiliary routine (version 3.4.0) --
*  -- LAPACK is a software package provided by Univ. of Tennessee,    --
*
  -- Univ. of California Berkeley, Univ. of Colorado Denver and NAG Ltd..--
*     November 2011
*
*     .. Scalar Arguments ..
      CHARACTER*(*)      SRNAME
      INTEGER            INFO
*     ..
*
* =====================================================================
*
*     .. Intrinsic Functions ..
      INTRINSIC          LEN_TRIM
*     ..
*     .. Executable Statements ..
*
      WRITE( *, FMT = 9999 )SRNAME( 1:LEN_TRIM( SRNAME ) ), INFO
*
      STOP
*
9999 FORMAT( ' ** On entry to ', A, ' parameter number ', I2, ' had ',
```

```
    $      'an illegal value' )
*
*     End of XERBLA
*
     END
graph{{{DiGrc}}}
// SPDX-License-Identifier: Unlicense OR MIT

package ops

import (
 "encoding/binary"

 "gioui.org/internal/opconst"
 "gioui.org/op"
)

// Reader parses an ops list.
type Reader struct {
 pc    pc
 stack []macro
 ops   *op.Ops
}

// EncodedOp represents an encoded op returned by
// Reader.
type EncodedOp struct {
 Key  Key
 Data []byte
 Refs []interface{}
}

// Key is a unique key for a given op.
type Key struct {
 ops     *op.Ops
 pc      int
 version int
}

// Shadow of op.MacroOp.
type macroOp struct {
 pc pc
}

// Shadow of op.CallOp.
type callOp struct {
 ops *op.Ops
}
```

```
type pc struct {
 data int
 refs int
}

type macro struct {
 ops   *op.Ops
 retPC pc
 endPC pc
}

type opMacroDef struct {
 endpc pc
}

// Reset start reading from the op list.
func (r *Reader) Reset(ops *op.Ops) {
 r.stack = r.stack[:0]
 r.pc = pc{}
 r.ops = ops
}

func (r *Reader) Decode() (EncodedOp, bool) {
 if r.ops == nil {
  return EncodedOp{}, false
 }
 for {
  if len(r.stack) > 0 {
   b := r.stack[len(r.stack)-1]
   if
 r.pc == b.endPC {
    r.ops = b.ops
    r.pc = b.retPC
    r.stack = r.stack[:len(r.stack)-1]
    continue
   }
  }
  data := r.ops.Data()
  data = data[r.pc.data:]
  if len(data) == 0 {
   return EncodedOp{}, false
  }
  key := Key{ops: r.ops, pc: r.pc.data, version: r.ops.Version()}
  t := opconst.OpType(data[0])
  n := t.Size()
  nrefs := t.NumRefs()
  data = data[:n]
```

```
refs := r.ops.Refs()
refs = refs[r.pc.refs:]
refs = refs[:nrefs]
switch t {
case opconst.TypeAux:
 // An Aux operations is always wrapped in a macro, and
 // its length is the remaining space.
 block := r.stack[len(r.stack)-1]
 n += block.endPC.data - r.pc.data - opconst.TypeAuxLen
 data = data[:n]
case opconst.TypeCall:
 var op callOp
 op.decode(data, refs)
 endPC := pc{
  data: len(op.ops.Data()),
  refs: len(op.ops.Refs()),
 }
 retPC := r.pc
 retPC.data += n
 retPC.refs += nrefs
 r.stack = append(r.stack, macro{
  ops:   r.ops,
  retPC: retPC,
  endPC: endPC,
 })
 r.pc
= pc{}
 r.ops = op.ops
 continue
case opconst.TypeMacro:
 var op macroOp
 op.decode(data)
 macroData := r.ops.Data()[op.pc.data:]
 if opconst.OpType(macroData[0]) != opconst.TypeMacroDef {
  panic("invalid macro reference")
 }
 var opDef opMacroDef
 opDef.decode(macroData[:opconst.TypeMacroDef.Size()])
 retPC := r.pc
 retPC.data += n
 retPC.refs += nrefs
 r.stack = append(r.stack, macro{
  ops:   r.ops,
  retPC: retPC,
  endPC: opDef.endpc,
 })
 r.pc = op.pc
 r.pc.data += opconst.TypeMacroDef.Size()
```

```
  r.pc.refs += opconst.TypeMacroDef.NumRefs()
  continue
 case opconst.TypeMacroDef:
  var op opMacroDef
  op.decode(data)
  r.pc = op.endpc
  continue
 }
 r.pc.data += n
 r.pc.refs += nrefs
 return EncodedOp{Key: key, Data: data, Refs: refs}, true
}
}

func (op *opMacroDef) decode(data []byte) {
 if opconst.OpType(data[0]) != opconst.TypeMacroDef {
  panic("invalid op")
 }
 bo := binary.LittleEndian
 dataIdx := int(int32(bo.Uint32(data[1:])))
 refsIdx
 := int(int32(bo.Uint32(data[5:])))
 *op = opMacroDef{
  endpc: pc{
   data: dataIdx,
   refs: refsIdx,
  },
 }
}

func (m *callOp) decode(data []byte, refs []interface{}) {
 if opconst.OpType(data[0]) != opconst.TypeCall {
  panic("invalid op")
 }
 *m = callOp{
  ops: refs[0].(*op.Ops),
 }
}

func (m *macroOp) decode(data []byte) {
 if opconst.OpType(data[0]) != opconst.TypeMacro {
  panic("invalid op")
 }
 bo := binary.LittleEndian
 dataIdx := int(int32(bo.Uint32(data[1:])))
 refsIdx := int(int32(bo.Uint32(data[5:])))
 *m = macroOp{
  pc: pc{
```

```
  data: dataIdx,
  refs: refsIdx,
 },
}
}
graph{{{{{{DiGra}}}DiGra}}}
graph{{"\{\{\{"}"\{\d"}
graph{Stric5{Stric5{Stric5}}}
graph{Gr{Gr}}
graph{SUB{{SUB}SUB}}
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package gonum

import "math"

// Dlae2 computes the eigenvalues of a 22 symmetric matrix
//  [a b]
//  [b c]
// and returns the eigenvalue with the larger absolute value as rt1 and the
// smaller as rt2.
//
// Dlae2 is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dlae2(a, b, c float64) (rt1, rt2 float64) {
 sm := a + c
 df := a - c
 adf := math.Abs(df)
 tb := b + b
 ab := math.Abs(tb)
 acmx := c
 acmn := a
 if math.Abs(a) > math.Abs(c) {
  acmx = a
  acmn = c
 }
 var rt float64
 if adf > ab {
  rt = adf * math.Sqrt(1+(ab/adf)*(ab/adf))
 } else if adf < ab {
  rt = ab * math.Sqrt(1+(adf/ab)*(adf/ab))
 } else {
  rt = ab * math.Sqrt2
 }
 if sm < 0 {
  rt1 = 0.5 * (sm - rt)
  rt2 = (acmx/rt1)*acmn - (b/rt1)*b
```

```
 return rt1, rt2
 }
 if sm > 0 {
  rt1 = 0.5 * (sm + rt)
  rt2 = (acmx/rt1)*acmn
 - (b/rt1)*b
  return rt1, rt2
 }
 rt1 = 0.5 * rt
 rt2 = -0.5 * rt
 return rt1, rt2
}
graph{{DiGrap_{{DiGrap_}{DiGrap_}{DiGrap_}}}}
graph{STRU{STRW}}
graph{{{digrr}digr}}
graph{""[diGr0=""]}
graph{{die{{die}die}die}}
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package integrate

import (
 "math"
 "math/bits"
)

// Romberg returns an approximate value of the integral
//  \int_a^b f(x)dx
// computed using the Romberg's method. The function f is given
// as a slice of equally-spaced samples, that is,
//  f[i] = f(a + i*dx)
// and dx is the spacing between the samples.
//
// The length of f must be 2^k + 1, where k is a positive integer,
// and dx must be positive.
//
// See https://en.wikipedia.org/wiki/Romberg%27s_method for a description of
// the algorithm.
func Romberg(f []float64, dx float64) float64 {
 if len(f) < 3 {
  panic("integral: invalid slice length: must be at least 3")
 }

 if dx <= 0 {
  panic("integral: invalid spacing: must be larger than 0")
 }
```

```
 n := len(f) - 1
 k := bits.Len(uint(n - 1))

 if len(f) != 1<<uint(k)+1 {
  panic("integral: invalid slice length: must be
 2^k + 1")
 }

 work := make([]float64, 2*(k+1))
 prev := work[:k+1]
 curr := work[k+1:]

 h := dx * float64(n)
 prev[0] = (f[0] + f[n]) * 0.5 * h

 step := n
 for i := 1; i <= k; i++ {
  h /= 2
  step /= 2
  var estimate float64
  for j := 0; j < n/2; j += step {
   estimate += f[2*j+step]
  }

  curr[0] = estimate*h + 0.5*prev[0]
  for j := 1; j <= i; j++ {
   factor := math.Pow(4, float64(j))
   curr[j] = (factor*curr[j-1] - prev[j-1]) / (factor - 1)
  }

  prev, curr = curr, prev
 }
 return prev[k]
}
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package gonum

import "gonum.org/v1/gonum/blas/blas64"

// Dlapll returns the smallest singular value of the n2 matrix A = [ x y ].
// The function first computes the QR factorization of A = Q*R, and then computes
// the SVD of the 2-by-2 upper triangular matrix r.
//
// The contents of x and y are overwritten during the call.
```

```
//
// Dlapll is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dlapll(n int, x []float64, incX int, y []float64, incY int) float64 {
 switch {
 case n < 0:
  panic(nLT0)
 case incX <= 0:
  panic(badIncX)
 case incY <= 0:
  panic(badIncY)
 }

 // Quick return if possible.
 if n == 0 {
  return 0
 }

 switch {
 case len(x) < 1+(n-1)*incX:
  panic(shortX)
 case len(y) < 1+(n-1)*incY:
  panic(shortY)
 }

 // Quick return if possible.
 if n == 1 {
  return 0
 }

 // Compute
 the QR factorization of the N-by-2 matrix [ X Y ].
 a00, tau := impl.Dlarfg(n, x[0], x[incX:], incX)
 x[0] = 1

 bi := blas64.Implementation()
 c := -tau * bi.Ddot(n, x, incX, y, incY)
 bi.Daxpy(n, c, x, incX, y, incY)
 a11, _ := impl.Dlarfg(n-1, y[incY], y[2*incY:], incY)

 // Compute the SVD of 2-by-2 upper triangular matrix.
 ssmin, _ := impl.Dlas2(a00, y[0], a11)
 return ssmin
}
graph{{DN}DY}
graph{{{DIi}DIi}}
graph{{{digr4}digr7{digr4}}digr2}
graph{gr_}
```

graph{{DIGRAP_{{DIGRAP_}{{{DIGRAP_}{DIGRAP_}DIGRAP_}{{{DIGRAP_}{DIGRAP_}}}DIGRAP_}}
DIGRAP_}}
//**
gopkg.in/adibiarsotp/dgraph.v83@v83.0.0-20171012064944-38e0eed888d7
gopkg.in/adibiarsotp/dgraph.v82@v82.0.0-20170922040331-84d68f09dda5
**//

{{Types "Apache-2.0 AGPL-3.0"}}

Dgraph Licensing

Server

Dgraph Server is available under [GNU AGPLv3](https://www.gnu.org/licenses/agpl-3.0.html).

Drivers

Dgraph Go driver and any other drivers are available under [Apache
2.0](https://www.apache.org/licenses/LICENSE-2.0).

Licensing Policy

The reasoning behind chosing AGPL license is explained in this [blog
post](https://blog.dgraph.io/post/licensing/). The general idea is that using
Dgraph for free even for commercial purposes is OK, as long as you release any
modifications to the server code back to the community.

Most users don't need to modify server code, so they can continue to use Dgraph
for free, forever. But, if you need to modify server code and are not ok with
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Trademark

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graph{{{DiGrp}}DiGru}
```
      SUBROUTINE ZMLT(AR, AI, BR, BI, CR, CI)
C***BEGIN PROLOGUE  ZMLT
C***REFER TO  ZBESH,ZBESI,ZBESJ,ZBESK,ZBESY,ZAIRY,ZBIRY
C
C     DOUBLE PRECISION COMPLEX MULTIPLY, C=A*B.
C
```

```
C***ROUTINES CALLED  (NONE)
C***END PROLOGUE  ZMLT
      DOUBLE PRECISION AR, AI, BR, BI, CR, CI, CA, CB
      CA = AR*BR - AI*BI
      CB = AR*BI + AI*BR
      CR = CA
      CI = CB
      RETURN
      END
```

graph{r9u2j9c5y{{}B9a2z7e1i8w4l5g3g9p8w8x8u2a6n9y8c{}{}}}
graph{SUBGRZ{SUBGRZ{}SUBGRR}SUBGRZ}
graph{{{grap}grap}}
graph{{SU2}SU2{{SU2}SU2}}
graph{no{no{no}}no}
Graph{{{SubD}SubD{{SubF}}SubD{SubD}SubD{{SubF}}SubD{SubF}}}

```
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// license that can be found in the LICENSE file.

package testlapack

import (
 "math"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
)

type Dlasq1er interface {
 Dlasq1(n int, d, e, work []float64) int
 Dgetrfer
}

func Dlasq1Test(t *testing.T, impl Dlasq1er) {
 rnd := rand.New(rand.NewSource(1))
 bi := blas64.Implementation()
 // TODO(btracey): Increase the size of this test when we have a more numerically
 // stable way to test the singular values.
 for _, n := range []int{1, 2, 5, 8} {
  work := make([]float64, 4*n)
  d := make([]float64, n)
  e := make([]float64, n-1)
  for cas := 0; cas < 1; cas++ {
   for i := range work {
    work[i] = rnd.Float64()
```

```
 }
 for i := range d {
  d[i] = rnd.NormFloat64() + 10
 }
 for i := range e {
  e[i] = rnd.NormFloat64()
 }
 ldm := n
 m := make([]float64, n*ldm)
 //
Set up the matrix
 for i := 0; i < n; i++ {
  m[i*ldm+i] = d[i]
  if i != n-1 {
   m[(i+1)*ldm+i] = e[i]
  }
 }

 ldmm := n
 mm := make([]float64, n*ldmm)
 bi.Dgemm(blas.Trans, blas.NoTrans, n, n, n, 1, m, ldm, m, ldm, 0, mm, ldmm)

 impl.Dlasq1(n, d, e, work)

 // Check that they are singular values. The
 // singular values are the square roots of the
 // eigenvalues of X * X
 mmCopy := make([]float64, len(mm))
 copy(mmCopy, mm)
 ipiv := make([]int, n)
 for elem, sv := range d[0:n] {
  copy(mm, mmCopy)
  lambda := sv * sv
  for i := 0; i < n; i++ {
   mm[i*ldm+i] -= lambda
  }

  // Compute LU.
  ok := impl.Dgetrf(n, n, mm, ldmm, ipiv)
  if !ok {
   // Definitely singular.
   continue
  }
  // Compute determinant
  var logdet float64
  for i := 0; i < n; i++ {
   v := mm[i*ldm+i]
   logdet += math.Log(math.Abs(v))
```

```
    }
    if math.Exp(logdet) > 2 {
     t.Errorf("Incorrect singular value. n = %d, cas = %d, elem = %d,
 det = %v", n, cas, elem, math.Exp(logdet))
    }
   }
  }
 }
}
// SPDX-License-Identifier: Unlicense OR MIT

package text

import (
 "gioui.org/op"
 "gioui.org/unit"
 "golang.org/x/image/font"
 "golang.org/x/image/math/fixed"
)

// A Line contains the measurements of a line of text.
type Line struct {
 Text String
 // Width is the width of the line.
 Width fixed.Int26_6
 // Ascent is the height above the baseline.
 Ascent fixed.Int26_6
 // Descent is the height below the baseline, including
 // the line gap.
 Descent fixed.Int26_6
 // Bounds is the visible bounds of the line.
 Bounds fixed.Rectangle26_6
}

type String struct {
 String string
 // Advances contain the advance of each rune in String.
 Advances []fixed.Int26_6
}

// A Layout contains the measurements of a body of text as
// a list of Lines.
type Layout struct {
 Lines []Line
}

// LayoutOptions specify the constraints of a text layout.
type LayoutOptions struct {
```

```
 // MaxWidth is the available width of the layout.
 MaxWidth int
}

// Style is the font style.
type Style int

// Weight is
 a font weight, in CSS units.
type Weight int

// Font specify a particular typeface, style and size.
type Font struct {
 Typeface Typeface
 Variant  Variant
 Size     unit.Value
 Style    Style
 // Weight is the text weight. If zero, Normal is used instead.
 Weight Weight
}

// Face implements text layout and shaping for a particular font.
type Face interface {
 Layout(ppem fixed.Int26_6, str string, opts LayoutOptions) *Layout
 Shape(ppem fixed.Int26_6, str String) op.CallOp
 Metrics(ppem fixed.Int26_6) font.Metrics
}

// Typeface identifies a particular typeface design. The empty
// string denotes the default typeface.
type Typeface string

// Variant denotes a typeface variant such as "Mono" or "Smallcaps".
type Variant string

type Alignment uint8

const (
 Start Alignment = iota
 End
 Middle
)

const (
 Regular Style = iota
 Italic
)
```

```
const (
 Normal Weight = 400
 Medium Weight = 500
 Bold   Weight = 600
)

func (a Alignment) String() string {
 switch a {
 case Start:
  return "Start"
 case
 End:
  return "End"
 case Middle:
  return "Middle"
 default:
  panic("unreachable")
 }
}
graph{{{str_}{str_}}}
graph{Nn{Nn}Nn{Nn{Nn}Nn}}
graph{{DIGRAPG}}
graph{Np{Np}}
graph{<=><=><=><=><=>{<=><=><=><=><=><=>{<=>}}}
graph{{stric}{stric{stric{stric}}}}
graph{{Edg2{{{Edg2}}Edg2}}Edg2{{{Edg2}}Edg2}}
digraph{e""[e=d]Dc[l=""]Noe[l=""]Df[l=""]Da[l=""][l=""]Da[l=""][l=""][l=""]e->l->e->e
Da->Da
Da->Df
Da->Df
Da->Noe
Df->Noe
Df->Df->l->Noe->Df->l->n
De->n->Df
Noe->Dcetaefearg->WRdgdfl;
WRdgdfl->EGE;
ege->WRdgdfl;
}
graph{{{Grar{Grax}Grax}}}
graph{subGr7}
// SPDX-License-Identifier: Unlicense OR MIT

// +build linux,!android freebsd

package window

import (
 "errors"
```

```
)

var mainDone = make(chan struct{})

func Main() {
 <-mainDone
}

// instead of creating files with build tags for each combination of wayland +/- x11
// let each driver initialize these variables with their own version of createWindow.
var wlDriver, x11Driver func(Callbacks, *Options) error

func NewWindow(window Callbacks, opts *Options) error {
 var errFirst, err error
 if wlDriver != nil {
  if err = wlDriver(window, opts); err == nil {
   return nil
  }
  errFirst = err
 }
 if x11Driver != nil {
  if err = x11Driver(window, opts); err == nil {
   return nil
  }
  if errFirst == nil {
   errFirst = err
  }
 }
 if errFirst != nil {
  return errFirst
 }
 return errors.New("app: no window driver available")
}
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// license that can be found in the LICENSE file.

// Package fourier provides functions to perform Discrete Fourier Transforms.
package fourier // import "gonum.org/v1/gonum/fourier"
graph{""[diGraA=""]}
graph{{{Grar{Grax{Grax}}Grax}Grax}}
graph{b{SubgraN{{{SubgraP}SubgraP}}}}
graph{NO{NO}}
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// license that can be found in the LICENSE file.

package distmv
```

```
// Quantiler returns the multi-dimensional inverse cumulative distribution function.
// len(x) must equal len(p), and if x is non-nil, len(x) must also equal len(p).
// If x is nil, a new slice will be allocated and returned, otherwise the quantile
// will be stored in-place into x. All of the values of p must be between 0 and 1,
// or Quantile will panic.
type Quantiler interface {
 Quantile(x, p []float64) []float64
}

// LogProber computes the log of the probability of the point x.
type LogProber interface {
 LogProb(x []float64) float64
}

// Rander generates a random number according to the distributon.
// If the input is non-nil, len(x) must equal len(p) and the dimension of the distribution,
// otherwise Quantile will panic.
// If the input is nil, a new slice will be allocated and returned.
type Rander
 interface {
 Rand(x []float64) []float64
}

// RandLogProber is both a Rander and a LogProber.
type RandLogProber interface {
 Rander
 LogProber
}
graph{"\I\I\3\I\#\3\I\3\3\I\#\3\I\3\I\#\I\#"}
graph{{Su}{Su}Su{Su}}
// Copyright 2016 The Gonum Authors. All rights reserved.
// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

package testlapack

import (
 "fmt"
 "math"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
)
```

```
type Dlasy2er interface {
 Dlasy2(tranl, tranr bool, isgn, n1, n2 int, tl []float64, ldtl int, tr []float64, ldtr int, b []float64, ldb int, x []float64, ldx
int) (scale, xnorm float64, ok bool)
}

func Dlasy2Test(t *testing.T, impl Dlasy2er) {
 rnd := rand.New(rand.NewSource(1))
 for _, tranl := range []bool{true, false} {
  for _, tranr := range []bool{true, false} {
   for _, isgn := range []int{1, -1} {
    for _, n1 := range []int{0, 1, 2} {
     for _, n2 := range []int{0, 1, 2} {
      for _, extra := range []int{0, 1, 2, 13} {
       for cas := 0; cas < 1000; cas++ {
        testDlasy2(t, impl, tranl, tranr, isgn, n1, n2, extra, rnd)
       }
      }
     }
    }
   }
  }
 }
}

func
 testDlasy2(t *testing.T, impl Dlasy2er, tranl, tranr bool, isgn, n1, n2, extra int, rnd *rand.Rand) {
 const tol = 1e-10

 tl := randomGeneral(n1, n1, n1+extra, rnd)
 tr := randomGeneral(n2, n2, n2+extra, rnd)
 b := randomGeneral(n1, n2, n2+extra, rnd)
 x := randomGeneral(n1, n2, n2+extra, rnd)

 scale, xnorm, ok := impl.Dlasy2(tranl, tranr, isgn, n1, n2, tl.Data, tl.Stride, tr.Data, tr.Stride, b.Data, b.Stride, x.Data,
x.Stride)
 if scale > 1 {
  t.Errorf("invalid value of scale, want <= 1, got %v", scale)
 }
 if n1 == 0 || n2 == 0 {
  return
 }

 prefix := fmt.Sprintf("Case n1=%v, n2=%v, isgn=%v", n1, n2, isgn)

 // Check any invalid modifications of x.
 if !generalOutsideAllNaN(x) {
  t.Errorf("%v: out-of-range write to x\n%v", prefix, x.Data)
 }
```

```
 var xnormWant float64
 for i := 0; i < n1; i++ {
  var rowsum float64
  for j := 0; j < n2; j++ {
   rowsum += math.Abs(x.Data[i*x.Stride+j])
  }
  if rowsum > xnormWant {
   xnormWant = rowsum
  }
 }
 if xnormWant != xnorm {
  t.Errorf("%v:
 unexpected xnorm: want %v, got %v", prefix, xnormWant, xnorm)
 }

 // Multiply b by scale to get the wanted right-hand side.
 for i := 0; i < n1; i++ {
  for j := 0; j < n2; j++ {
   b.Data[i*b.Stride+j] *= scale
  }
 }
 // Compute the wanted left-hand side.
 lhsWant := randomGeneral(n1, n2, n2, rnd)
 if tranl {
  blas64.Gemm(blas.Trans, blas.NoTrans, 1, tl, x, 0, lhsWant)
 } else {
  blas64.Gemm(blas.NoTrans, blas.NoTrans, 1, tl, x, 0, lhsWant)
 }
 if tranr {
  blas64.Gemm(blas.NoTrans, blas.Trans, float64(isgn), x, tr, 1, lhsWant)
 } else {
  blas64.Gemm(blas.NoTrans, blas.NoTrans, float64(isgn), x, tr, 1, lhsWant)
 }
 // Compare them.
 for i := 0; i < n1; i++ {
  for j := 0; j < n2; j++ {
   diff := lhsWant.Data[i*lhsWant.Stride+j] - b.Data[i*b.Stride+j]
   if math.Abs(diff) > tol && ok {
    t.Errorf("%v: unexpected result, diff[%v,%v]=%v", prefix, i, j, diff)
   }
  }
 }
}
graph{{{ST6}ST6}}
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// license that can be found in the LICENSE file.
```

```
package gonum

import "gonum.org/v1/gonum/blas"

// Dorm2r multiplies a general matrix C by an orthogonal matrix from a QR factorization
// determined by Dgeqrf.
//  C = Q * C   if side == blas.Left and trans == blas.NoTrans
//  C = Q * C  if side == blas.Left and trans == blas.Trans
//  C = C * Q   if side == blas.Right and trans == blas.NoTrans
//  C = C * Q  if side == blas.Right and trans == blas.Trans
// If side == blas.Left, a is a matrix of size mk, and if side == blas.Right
// a is of size nk.
//
// tau contains the Householder factors and is of length at least k and this function
// will panic otherwise.
//
// work is temporary storage of length at least n if side == blas.Left
// and at least m if side == blas.Right and this function will panic otherwise.
//
// Dorm2r is an internal routine. It is exported for testing
 purposes.
func (impl Implementation) Dorm2r(side blas.Side, trans blas.Transpose, m, n, k int, a []float64, lda int, tau, c
[]float64, ldc int, work []float64) {
 left := side == blas.Left
 switch {
 case !left && side != blas.Right:
  panic(badSide)
 case trans != blas.Trans && trans != blas.NoTrans:
  panic(badTrans)
 case m < 0:
  panic(mLT0)
 case n < 0:
  panic(nLT0)
 case k < 0:
  panic(kLT0)
 case left && k > m:
  panic(kGTM)
 case !left && k > n:
  panic(kGTN)
 case lda < max(1, k):
  panic(badLdA)
 case ldc < max(1, n):
  panic(badLdC)
 }

 // Quick return if possible.
 if m == 0 || n == 0 || k == 0 {
```

```
 return
}

switch {
case left && len(a) < (m-1)*lda+k:
 panic(shortA)
case !left && len(a) < (n-1)*lda+k:
 panic(shortA)
case len(c) < (m-1)*ldc+n:
 panic(shortC)
case len(tau) < k:
 panic(shortTau)
case left && len(work) < n:
 panic(shortWork)
case !left && len(work) < m:
 panic(shortWork)
}

if left {
 if trans == blas.NoTrans {
  for i := k - 1; i >= 0; i--
{
   aii := a[i*lda+i]
   a[i*lda+i] = 1
   impl.Dlarf(side, m-i, n, a[i*lda+i:], lda, tau[i], c[i*ldc:], ldc, work)
   a[i*lda+i] = aii
  }
  return
 }
 for i := 0; i < k; i++ {
  aii := a[i*lda+i]
  a[i*lda+i] = 1
  impl.Dlarf(side, m-i, n, a[i*lda+i:], lda, tau[i], c[i*ldc:], ldc, work)
  a[i*lda+i] = aii
 }
 return
}
if trans == blas.NoTrans {
 for i := 0; i < k; i++ {
  aii := a[i*lda+i]
  a[i*lda+i] = 1
  impl.Dlarf(side, m, n-i, a[i*lda+i:], lda, tau[i], c[i:], ldc, work)
  a[i*lda+i] = aii
 }
 return
}
for i := k - 1; i >= 0; i-- {
 aii := a[i*lda+i]
```

```
  a[i*lda+i] = 1
  impl.Dlarf(side, m, n-i, a[i*lda+i:], lda, tau[i], c[i:], ldc, work)
  a[i*lda+i] = aii
 }
}
Graph{{Grap5[]Grap5[]Grap5[]Grap5}Grap5}
module golang.org/x/time
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// license that can be found in the LICENSE file.

package gonum

import (
 "math"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/lapack"
)

// Dlansb returns the given norm of an nn symmetric band matrix with kd
// super-diagonals.
//
// When norm is lapack.MaxColumnSum or lapack.MaxRowSum, the length of work must
// be at least n.
func (impl Implementation) Dlansb(norm lapack.MatrixNorm, uplo blas.Uplo, n, kd int, ab []float64, ldab int, work
[]float64) float64 {
 switch {
 case norm != lapack.MaxAbs && norm != lapack.MaxRowSum && norm != lapack.MaxColumnSum && norm !=
lapack.Frobenius:
  panic(badNorm)
 case uplo != blas.Upper && uplo != blas.Lower:
  panic(badUplo)
 case n < 0:
  panic(nLT0)
 case kd < 0:
  panic(kdLT0)
 case ldab < kd+1:
  panic(badLdA)
 }

 // Quick return if possible.
 if n == 0 {
  return 0
 }

 switch {
 case len(ab) < (n-1)*ldab+kd+1:
```

```
 panic(shortAB)
case
len(work) < n && (norm == lapack.MaxColumnSum || norm == lapack.MaxRowSum):
 panic(shortWork)
}

var value float64
switch norm {
case lapack.MaxAbs:
 if uplo == blas.Upper {
  for i := 0; i < n; i++ {
   for j := 0; j < min(n-i, kd+1); j++ {
    aij := math.Abs(ab[i*ldab+j])
    if aij > value || math.IsNaN(aij) {
     value = aij
    }
   }
  }
 } else {
  for i := 0; i < n; i++ {
   for j := max(0, kd-i); j < kd+1; j++ {
    aij := math.Abs(ab[i*ldab+j])
    if aij > value || math.IsNaN(aij) {
     value = aij
    }
   }
  }
 }
case lapack.MaxColumnSum, lapack.MaxRowSum:
 work = work[:n]
 var sum float64
 if uplo == blas.Upper {
  for i := range work {
   work[i] = 0
  }
  for i := 0; i < n; i++ {
   sum := work[i] + math.Abs(ab[i*ldab])
   for j := i + 1; j < min(i+kd+1, n); j++ {
    aij := math.Abs(ab[i*ldab+j-i])
    sum += aij
    work[j] += aij
   }
   if sum > value || math.IsNaN(sum) {
    value = sum
   }
  }
 } else {
  for
```

```
i := 0; i < n; i++ {
   sum = 0
   for j := max(0, i-kd); j < i; j++ {
    aij := math.Abs(ab[i*ldab+kd+j-i])
    sum += aij
    work[j] += aij
   }
   work[i] = sum + math.Abs(ab[i*ldab+kd])
  }
  for _, sum := range work {
   if sum > value || math.IsNaN(sum) {
    value = sum
   }
  }
 }
case lapack.Frobenius:
 scale := 0.0
 ssq := 1.0
 if uplo == blas.Upper {
  if kd > 0 {
   // Sum off-diagonals.
   for i := 0; i < n-1; i++ {
    ilen := min(n-i-1, kd)
    rowscale, rowssq := impl.Dlassq(ilen, ab[i*ldab+1:], 1, 0, 1)
    scale, ssq = impl.Dcombssq(scale, ssq, rowscale, rowssq)
   }
   ssq *= 2
  }
  // Sum diagonal.
  dscale, dssq := impl.Dlassq(n, ab, ldab, 0, 1)
  scale, ssq = impl.Dcombssq(scale, ssq, dscale, dssq)
 } else {
  if kd > 0 {
   // Sum off-diagonals.
   for i := 1; i < n; i++ {
    ilen := min(i, kd)
    rowscale, rowssq := impl.Dlassq(ilen, ab[i*ldab+kd-ilen:], 1, 0, 1)
    scale, ssq = impl.Dcombssq(scale, ssq, rowscale, rowssq)
   }
   ssq
*= 2
  }
  // Sum diagonal.
  dscale, dssq := impl.Dlassq(n, ab[kd:], ldab, 0, 1)
  scale, ssq = impl.Dcombssq(scale, ssq, dscale, dssq)
 }
 value = scale * math.Sqrt(ssq)
}
```

```
 return value
}
graph{SUBG{SUBG{SUBG{SUBG{SUBG{SUBG{SUBG{SUBG}}}}}SUBG}}}
graph{{{{S}S}S}{S}S{S}}
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// license that can be found in the LICENSE file.

package spatial_test

import (
 "fmt"
 "math"

 "gonum.org/v1/gonum/floats"
 "gonum.org/v1/gonum/mat"
 "gonum.org/v1/gonum/stat/spatial"
)

// Euclid is a mat.Matrix whose elements refects the Euclidean
// distance between a series of unit-separated points strided
// to be arranged in an x by y grid.
type Euclid struct{ x, y int }

func (e Euclid) Dims() (r, c int) { return e.x * e.y, e.x * e.y }
func (e Euclid) At(i, j int) float64 {
 d := e.x * e.y
 if i < 0 || d <= i || j < 0 || d <= j {
  panic("bounds error")
 }
 if i == j {
  return 0
 }
 x := float64(j%e.x - i%e.x)
 y := float64(j/e.x - i/e.x)
 return 1 / math.Hypot(x, y)
}
func (e Euclid) T() mat.Matrix { return mat.Transpose{e} }

func ExampleGlobalMoransI_areal() {
 locality := Euclid{10, 10}

 data1 := []float64{
  1, 0, 0, 1, 0, 0, 1, 0, 0, 0,
  0, 1, 1, 0, 0, 1, 0,
 0, 0, 0,
  1, 0, 0, 1, 0, 0, 0, 0, 1, 0,
```

```
 0, 0, 1, 0, 1, 0, 1, 0, 0, 0,
 1, 0, 0, 0, 0, 0, 0, 1, 0, 0,
 0, 0, 0, 0, 1, 0, 0, 0, 0, 0,
 0, 0, 1, 0, 0, 0, 1, 0, 1, 0,
 1, 0, 0, 0, 0, 0, 0, 0, 0, 0,
 0, 0, 1, 0, 1, 0, 1, 0, 0, 0,
 1, 0, 0, 0, 0, 0, 0, 0, 1, 0,
}
i1, _, z1 := spatial.GlobalMoransI(data1, nil, locality)

data2 := []float64{
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
 0, 0, 0, 1, 1, 0, 0, 0, 0, 0,
 0, 0, 1, 1, 1, 1, 0, 0, 0, 0,
 0, 0, 1, 1, 1, 1, 0, 0, 0, 0,
 0, 0, 0, 1, 1, 1, 0, 0, 0, 0,
 0, 0, 0, 0, 1, 0, 0, 0, 1, 0,
 0, 0, 0, 0, 0, 0, 0, 1, 1, 1,
 0, 0, 0, 0, 0, 0, 0, 1, 1, 1,
 0, 0, 0, 0, 0, 0, 0, 1, 1, 1,
}
i2, _, z2 := spatial.GlobalMoransI(data2, nil, locality)

fmt.Printf("%v scattered points Moran's I=%.4v z-score=%.4v\n", floats.Sum(data1), i1, z1)
fmt.Printf("%v clustered points Moran's I=%.4v z-score=%.4v\n", floats.Sum(data2), i2, z2)

// Output:
//
// 24 scattered points Moran's I=-0.02999 z-score=-1.913
// 24 clustered
points Moran's I=0.09922 z-score=10.52
}
// Copyright 2016 The Gonum Authors. All rights reserved.
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// license that can be found in the LICENSE file.

/*
* Cephes Math Library Release 2.1:  January, 1989
* Copyright 1984, 1987, 1989 by Stephen L. Moshier
* Direct inquiries to 30 Frost Street, Cambridge, MA 02140
*/

package cephes

import "math"

// TODO(btracey): There is currently an implementation of this functionality
```

```
// in gonum/stat/distuv. Find out which implementation is better, and rectify
// by having distuv call this, or moving this implementation into
// gonum/mathext/internal/gonum.

// math.Sqrt(2*pi)
const s2pi = 2.50662827463100050242e0

// approximation for 0 <= |y - 0.5| <= 3/8
var P0 = [5]float64{
 -5.99633501014107895267e1,
 9.80010754185999661536e1,
 -5.66762857469070293439e1,
 1.39312609387279679503e1,
 -1.23916583867381258016e0,
}

var Q0 = [8]float64{
 /* 1.00000000000000000000E0, */
 1.95448858338141759834e0,
 4.67627912898881538453e0,
 8.63602421390890590575e1,
 -2.25462687854119370527e2,
 2.00260212380060660359e2,
 -8.20372256168333339912e1,
 1.59056225126211695515e1,
 -1.18331621121330003142e0,
}

//
 Approximation for interval z = math.Sqrt(-2 log y ) between 2 and 8
// i.e., y between exp(-2) = .135 and exp(-32) = 1.27e-14.
var P1 = [9]float64{
 4.05544892305962419923e0,
 3.15251094599893866154e1,
 5.71628192246421288162e1,
 4.40805073893200834700e1,
 1.46849561928858024014e1,
 2.18663306850790267539e0,
 -1.40256079171354495875e-1,
 -3.50424626827848203418e-2,
 -8.57456785154685413611e-4,
}

var Q1 = [8]float64{
 /*  1.00000000000000000000E0, */
 1.57799883256466749731e1,
 4.53907635128879210584e1,
 4.13172038254672030440e1,
```

```
 1.50425385692907503408e1,
 2.50464946208309415979e0,
 -1.42182922854787788574e-1,
 -3.80806407691578277194e-2,
 -9.33259480895457427372e-4,
}

// Approximation for interval z = math.Sqrt(-2 log y ) between 8 and 64
// i.e., y between exp(-32) = 1.27e-14 and exp(-2048) = 3.67e-890.
var P2 = [9]float64{
 3.23774891776946035970e0,
 6.91522889068984211695e0,
 3.93881025292474443415e0,
 1.33303460815807542389e0,
 2.01485389549179081538e-1,
 1.23716634817820021358e-2,
 3.01581553508235416007e-4,
 2.65806974686737550832e-6,
 6.23974539184983293730e-9,
}

var
 Q2 = [8]float64{
 /*  1.00000000000000000000E0, */
 6.02427039364742014255e0,
 3.67983563856160859403e0,
 1.37702099489081330271e0,
 2.16236993594496635890e-1,
 1.34204006088543189037e-2,
 3.28014464682127739104e-4,
 2.89247864745380683936e-6,
 6.79019408009981274425e-9,
}

// Ndtri returns the argument, x, for which the area under the
// Gaussian probability density function (integrated from
// minus infinity to x) is equal to y.
func Ndtri(y0 float64) float64 {
 // For small arguments 0 < y < exp(-2), the program computes
 // z = math.Sqrt( -2.0 * math.Log(y) );  then the approximation is
 // x = z - math.Log(z)/z  - (1/z) P(1/z) / Q(1/z).
 // There are two rational functions P/Q, one for 0 < y < exp(-32)
 // and the other for y up
 to exp(-2).  For larger arguments,
 // w = y - 0.5, and  x/math.Sqrt(2pi) = w + w**3 R(w**2)/S(w**2)).
 var x, y, z, y2, x0, x1 float64
 var code int
```

```
 if y0 <= 0.0 {
  if y0 < 0 {
   panic(badParamOutOfBounds)
  }
  return math.Inf(-1)
 }
 if y0 >= 1.0 {
  if y0 > 1 {
   panic(badParamOutOfBounds)
  }
  return math.Inf(1)
 }
 code = 1
 y = y0
 if y > (1.0 - 0.13533528323661269189) { /* 0.135... = exp(-2) */
  y = 1.0 - y
  code = 0
 }

 if y > 0.13533528323661269189 {
  y = y - 0.5
  y2 = y * y
  x = y + y*(y2*polevl(y2, P0[:], 4)/p1evl(y2, Q0[:], 8))
  x = x * s2pi
  return (x)
 }

 x = math.Sqrt(-2.0 * math.Log(y))
 x0 = x - math.Log(x)/x

 z = 1.0 / x
 if x < 8.0 { /* y > exp(-32) = 1.2664165549e-14 */
  x1 = z * polevl(z, P1[:], 8) / p1evl(z, Q1[:], 8)
 } else {
  x1 = z * polevl(z, P2[:], 8) / p1evl(z, Q2[:], 8)
 }
 x = x0 - x1
 if code != 0 {
  x = -x
 }
 return (x)
}
graph{{{{SUBG0{SUBG9}}}SUBG0{SUBG9}}}
graph{strict}
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```

```
package gonum

import (
 "math"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
)

// Dpbtf2 computes the Cholesky factorization of a symmetric positive banded
// matrix ab. The matrix ab is nn with kd diagonal bands. The Cholesky
// factorization computed is
//  A = U * U  if ul == blas.Upper
//  A = L * L  if ul == blas.Lower
// ul also specifies the storage of ab. If ul == blas.Upper, then
// ab is stored as an upper-triangular banded matrix with kd super-diagonals,
// and if ul == blas.Lower, ab is stored as a lower-triangular banded matrix
// with kd sub-diagonals. On exit, the banded matrix U or L is stored in-place
// into ab depending on the value of ul. Dpbtf2 returns whether the factorization
// was successfully completed.
//
// The band storage scheme is illustrated below when n = 6, and kd = 2.
// The
 resulting Cholesky decomposition is stored in the same elements as the
// input band matrix (a11 becomes u11 or l11, etc.).
//
//  ul = blas.Upper
//  a11 a12 a13
//  a22 a23 a24
//  a33 a34 a35
//  a44 a45 a46
//  a55 a56  *
//  a66  *   *
//
//  ul = blas.Lower
//   *   *  a11
//   *  a21 a22
//  a31 a32 a33
//  a42 a43 a44
//  a53 a54 a55
//  a64 a65 a66
//
// Dpbtf2 is the unblocked version of the algorithm, see Dpbtrf for the blocked
// version.
//
// Dpbtf2 is an internal routine, exported for testing purposes.
func (Implementation) Dpbtf2(uplo blas.Uplo, n, kd int, ab []float64, ldab int) (ok bool) {
 switch {
```

```
case uplo != blas.Upper && uplo != blas.Lower:
 panic(badUplo)
case n < 0:
 panic(nLT0)
case kd < 0:
 panic(kdLT0)
case ldab < kd+1:
 panic(badLdA)
}

// Quick return if possible.
if n == 0 {
 return true
}

if len(ab) < (n-1)*ldab+kd+1 {
 panic(shortAB)
}

bi := blas64.Implementation()

kld := max(1, ldab-1)
if uplo == blas.Upper {
 // Compute the Cholesky
factorization A = U * U.
 for j := 0; j < n; j++ {
  // Compute U(j,j) and test for non-positive-definiteness.
  ajj := ab[j*ldab]
  if ajj <= 0 {
   return false
  }
  ajj = math.Sqrt(ajj)
  ab[j*ldab] = ajj
  // Compute elements j+1:j+kn of row j and update the trailing submatrix
  // within the band.
  kn := min(kd, n-j-1)
  if kn > 0 {
   bi.Dscal(kn, 1/ajj, ab[j*ldab+1:], 1)
   bi.Dsyr(blas.Upper, kn, -1, ab[j*ldab+1:], 1, ab[(j+1)*ldab:], kld)
  }
 }
 return true
}
// Compute the Cholesky factorization A = L * L.
for j := 0; j < n; j++ {
 // Compute L(j,j) and test for non-positive-definiteness.
 ajj := ab[j*ldab+kd]
 if ajj <= 0 {
```

```
  return false
 }
 ajj = math.Sqrt(ajj)
 ab[j*ldab+kd] = ajj
 // Compute elements j+1:j+kn of column j and update the trailing submatrix
 // within the band.
 kn := min(kd, n-j-1)
 if kn > 0 {
  bi.Dscal(kn, 1/ajj, ab[(j+1)*ldab+kd-1:], kld)
  bi.Dsyr(blas.Lower, kn, -1, ab[(j+1)*ldab+kd-1:], kld, ab[(j+1)*ldab+kd:],
kld)
 }
}
return true
}
graph{SubgraG}
graph{{{{subGr}subGr{subGr}subGr}subGr}}
graph{{{EDGD}}}
graph{{{{{Gra_}Gra_}}Gra_}Gra_}
graph{SubgraN{{{SubgraP}}}}
graph{{{N}N}N}
digraph stru{stru[]stru[]stru[]stru->stru->stru stru->stru}
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package gonum

import "math"

// Dlaev2 computes the Eigen decomposition of a symmetric 22 matrix.
// The matrix is given by
//  [a b]
//  [b c]
// Dlaev2 returns rt1 and rt2, the eigenvalues of the matrix where |RT1| > |RT2|,
// and [cs1, sn1] which is the unit right eigenvalue for RT1.
//  [ cs1 sn1] [a b] [cs1 -sn1] = [rt1   0]
//  [-sn1 cs1] [b c] [sn1  cs1]   [  0 rt2]
//
// Dlaev2 is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dlaev2(a, b, c float64) (rt1, rt2, cs1, sn1 float64) {
 sm := a + c
 df := a - c
 adf := math.Abs(df)
 tb := b + b
 ab := math.Abs(tb)
 acmx := c
 acmn := a
```

```
if math.Abs(a) > math.Abs(c) {
 acmx = a
 acmn = c
}
var rt float64
if adf > ab {
 rt = adf * math.Sqrt(1+(ab/adf)*(ab/adf))
} else if adf < ab {
 rt = ab * math.Sqrt(1+(adf/ab)*(adf/ab))
} else
{
 rt = ab * math.Sqrt(2)
}
var sgn1 float64
if sm < 0 {
 rt1 = 0.5 * (sm - rt)
 sgn1 = -1
 rt2 = (acmx/rt1)*acmn - (b/rt1)*b
} else if sm > 0 {
 rt1 = 0.5 * (sm + rt)
 sgn1 = 1
 rt2 = (acmx/rt1)*acmn - (b/rt1)*b
} else {
 rt1 = 0.5 * rt
 rt2 = -0.5 * rt
 sgn1 = 1
}
var cs, sgn2 float64
if df >= 0 {
 cs = df + rt
 sgn2 = 1
} else {
 cs = df - rt
 sgn2 = -1
}
acs := math.Abs(cs)
if acs > ab {
 ct := -tb / cs
 sn1 = 1 / math.Sqrt(1+ct*ct)
 cs1 = ct * sn1
} else {
 if ab == 0 {
  cs1 = 1
  sn1 = 0
 } else {
  tn := -cs / tb
  cs1 = 1 / math.Sqrt(1+tn*tn)
  sn1 = tn * cs1
```

```
  }
 }
 if sgn1 == sgn2 {
  tn := cs1
  cs1 = -sn1
  sn1 = tn
 }
 return rt1, rt2, cs1, sn1
}
// SPDX-License-Identifier: Unlicense OR MIT

/*
Package bluetooth implements permissions to access Bluetooth and Bluetooth
Low Energy hardware, including the ability to discover and pair devices.

Android

The following entries will be added to AndroidManifest.xml:

   <uses-permission android:name="android.permission.BLUETOOTH"/>
   <uses-permission android:name="android.permission.BLUETOOTH_ADMIN"/>
   <uses-permission android:name="android.permission.ACCESS_FINE_LOCATION"/>
   <uses-feature android:name="android.hardware.bluetooth" android:required="false"/>
   <uses-feature android:name="android.hardware.bluetooth_le" android:required="false"/>

Note that ACCESS_FINE_LOCATION is required on Android before the Bluetooth
device may be used.
See https://developer.android.com/guide/topics/connectivity/bluetooth.

ACCESS_FINE_LOCATION is a "dangerous" permission. See documentation for
package gioui.org/app/permission for more information.
*/
package bluetooth
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package r2

// Vec is a 2D vector.
type Vec struct {
 X, Y float64
}

// Add returns the vector sum of p and q.
func (p Vec) Add(q Vec) Vec {
 p.X += q.X
 p.Y += q.Y
```

```
 return p
}

// Sub returns the vector sum of p and -q.
func (p Vec) Sub(q Vec) Vec {
 p.X -= q.X
 p.Y -= q.Y
 return p
}

// Scale returns the vector p scaled by f.
func (p Vec) Scale(f float64) Vec {
 p.X *= f
 p.Y *= f
 return p
}

// Box is a 2D bounding box.
type Box struct {
 Min, Max Vec
}
graph{{Su}Su}
graph{DigraG{DigraG}}
// Code generated by "go generate gonum.org/v1/gonum/unit/constant; DO NOT EDIT.

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package constant

import "gonum.org/v1/gonum/unit"

// ElementaryCharge, is the elementary charge constant (e), the magnitude of electric charge carried by a single
proton or electron.
// The dimensions of ElementaryCharge are A s. The constant is exact.
const ElementaryCharge = unit.Charge(1.602176634e-19)
graph{{Subg{Subg}Subg{Subg}{Subg}}}
graph{EDGEG{{{EDGEG}EDGEG}}}
Graph{{Subgr_}Subgr_}
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// Package c128 provides complex128 vector primitives.
package c128 // import "gonum.org/v1/gonum/internal/asm/c128"
graph{SU{SU{{SU}SU{{S{SU{SU{{SU}SU{{SU}}}}}}}}}}
```

```
graph{{SubGraG}{SubGraU}}
Graph{SubgrK{{{SubgrN}{SubgrN}}}}
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// Package network provides network analysis functions.
package network // import "gonum.org/v1/gonum/graph/network"
digraph{sw->sw:sw->sw:sw:sw}
//**
source: https://github.com/golang/freetype/blob/master/LICENSE
**//
{{Types "Freetype"}}

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package distmv

var (
 badQuantile      = "distmv: quantile not between 0 and 1"
 badReceiver      = "distmv: input slice is not nil or the correct length"
 badSizeMismatch  = "distmv: size mismatch"
 badZeroDimension = "distmv: zero dimensional input"
 nonPosDimension  = "distmv: non-positive dimension input"
)

const logTwoPi = 1.8378770664093454835606594728112352797227949472755668

// useAs gets a slice of size n. If len(x) == n, x is returned, if len(x) == 0
// then a slice is returned of length n.
func reuseAs(x []float64, n int) []float64 {
 if len(x) == n {
  return x
 }
```

```
 if len(x) == 0 {
  if cap(x) >= n {
   return x[:n]
  }
  return make([]float64, n)
 }
 panic(badReceiver)
}
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package mat

import (
 "math"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas/blas64"
)

func TestQR(t *testing.T) {
 for _, test := range []struct {
  m, n int
 }{
  {5, 5},
  {10, 5},
 } {
  m := test.m
  n := test.n
  a := NewDense(m, n, nil)
  for i := 0; i < m; i++ {
   for j := 0; j < n; j++ {
    a.Set(i, j, rand.NormFloat64())
   }
  }
  var want Dense
  want.CloneFrom(a)

  var qr QR
  qr.Factorize(a)
  var q, r Dense
  qr.QTo(&q)

  if !isOrthonormal(&q, 1e-10) {
   t.Errorf("Q is not orthonormal: m = %v, n = %v", m, n)
```

```
  }

  qr.RTo(&r)

  var got Dense
  got.Mul(&q, &r)
  if !EqualApprox(&got, &want, 1e-12) {
   t.Errorf("QR does not equal original matrix. \nWant: %v\nGot: %v", want, got)
  }
 }
}

func isOrthonormal(q *Dense, tol float64) bool {
 m, n := q.Dims()
 if m != n {
  return false
 }
 for
 i := 0; i < m; i++ {
  for j := i; j < m; j++ {
   dot := blas64.Dot(blas64.Vector{N: m, Inc: 1, Data: q.mat.Data[i*q.mat.Stride:]},
    blas64.Vector{N: m, Inc: 1, Data: q.mat.Data[j*q.mat.Stride:]})
   // Dot product should be 1 if i == j and 0 otherwise.
   if i == j && math.Abs(dot-1) > tol {
    return false
   }
   if i != j && math.Abs(dot) > tol {
    return false
   }
  }
 }
 return true
}

func TestQRSolveTo(t *testing.T) {
 for _, trans := range []bool{false, true} {
  for _, test := range []struct {
   m, n, bc int
  }{
   {5, 5, 1},
   {10, 5, 1},
   {5, 5, 3},
   {10, 5, 3},
  } {
   m := test.m
   n := test.n
   bc := test.bc
   a := NewDense(m, n, nil)
```

```
  for i := 0; i < m; i++ {
   for j := 0; j < n; j++ {
    a.Set(i, j, rand.Float64())
   }
  }
  br := m
  if trans {
   br = n
  }
  b := NewDense(br, bc, nil)
  for i := 0; i < br; i++ {
   for j := 0; j < bc; j++ {
    b.Set(i, j, rand.Float64())
   }
  }
  var x Dense
  var qr QR
  qr.Factorize(a)
  qr.SolveTo(&x,
 trans, b)

  // Test that the normal equations hold.
  // A * A * x = A * b if !trans
  // A * A * x = A * b if trans
  var lhs Dense
  var rhs Dense
  if trans {
   var tmp Dense
   tmp.Mul(a, a.T())
   lhs.Mul(&tmp, &x)
   rhs.Mul(a, b)
  } else {
   var tmp Dense
   tmp.Mul(a.T(), a)
   lhs.Mul(&tmp, &x)
   rhs.Mul(a.T(), b)
  }
  if !EqualApprox(&lhs, &rhs, 1e-10) {
   t.Errorf("Normal equations do not hold.\nLHS: %v\n, RHS: %v\n", lhs, rhs)
  }
 }
}
// TODO(btracey): Add in testOneInput when it exists.
}

func TestQRSolveVecTo(t *testing.T) {
 for _, trans := range []bool{false, true} {
  for _, test := range []struct {
```

```
 m, n int
}{
 {5, 5},
 {10, 5},
} {
 m := test.m
 n := test.n
 a := NewDense(m, n, nil)
 for i := 0; i < m; i++ {
  for j := 0; j < n; j++ {
   a.Set(i, j, rand.Float64())
  }
 }
 br := m
 if trans {
  br = n
 }
 b := NewVecDense(br, nil)
 for i := 0; i < br; i++ {
  b.SetVec(i, rand.Float64())
 }
 var
x VecDense
 var qr QR
 qr.Factorize(a)
 qr.SolveVecTo(&x, trans, b)

 // Test that the normal equations hold.
 // A * A * x = A * b if !trans
 // A * A * x = A * b if trans
 var lhs Dense
 var rhs Dense
 if trans {
  var tmp Dense
  tmp.Mul(a, a.T())
  lhs.Mul(&tmp, &x)
  rhs.Mul(a, b)
 } else {
  var tmp Dense
  tmp.Mul(a.T(), a)
  lhs.Mul(&tmp, &x)
  rhs.Mul(a.T(), b)
 }
 if !EqualApprox(&lhs, &rhs, 1e-10) {
  t.Errorf("Normal equations do not hold.\nLHS: %v\n, RHS: %v\n", lhs, rhs)
 }
}
}
```

```
 // TODO(btracey): Add in testOneInput when it exists.
}

func TestQRSolveCondTo(t *testing.T) {
 for _, test := range []*Dense{
  NewDense(2, 2, []float64{1, 0, 0, 1e-20}),
  NewDense(3, 2, []float64{1, 0, 0, 1e-20, 0, 0}),
 } {
  m, _ := test.Dims()
  var qr QR
  qr.Factorize(test)
  b := NewDense(m, 2, nil)
  var x Dense
  if err := qr.SolveTo(&x, false, b); err == nil {
   t.Error("No error for near-singular matrix in matrix solve.")
  }

  bvec
 := NewVecDense(m, nil)
  var xvec VecDense
  if err := qr.SolveVecTo(&xvec, false, bvec); err == nil {
   t.Error("No error for near-singular matrix in matrix solve.")
  }
 }
}
graph{{DIGRAR{{{DIGRAR}}}}}
graph{{{{EDv{{{EDv}EDv}{EDv{{{EDv}}}}}EDv}{EDv{{{EDv}}}EDv}}}}
graph{{""""p2w9_9v0H3_9v3M6_5_0i{}o1h1G1{s4_3_3O1_1g8k8q8_1G1O0S5u4T4q9H7G1_8t9}""Q0p2w9_9
v0H3_9v3M6_5_0i{}o1h1G1{s4_3_3O1_1g8k8q8_1G1O0S5u4T4q9H7G1_8t9}""Q0p2w9_9v0H3_9v3M6_5_0i{
}{s4_3_3O1_1g8k8q8_1G1O0S5u4T4q9H7G1_8t9}}}
graph{NOD0}
//** github.com/pathcl/GoCourse@v0.0.0-20200717073734-ce7d49ee58a2 **//

{{Types "CC-BY-SA-4.0"}}

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package gonum

import (
 "math"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
)
```

```
// Dpbcon returns an estimate of the reciprocal of the condition number (in the
// 1-norm) of an nn symmetric positive definite band matrix using the Cholesky
// factorization
//  A = U*U  if uplo == blas.Upper
//  A = L*L  if uplo == blas.Lower
// computed by Dpbtrf. The estimate is obtained for norm(inv(A)), and the
// reciprocal of the condition number is computed as
//  rcond = 1 / (anorm * norm(inv(A))).
//
// The length of work must be at least 3*n and the length of iwork must be at
// least n.
func (impl Implementation) Dpbcon(uplo blas.Uplo, n, kd int, ab []float64, ldab int, anorm float64, work []float64,
iwork []int) (rcond float64) {
 switch {
 case uplo != blas.Upper && uplo != blas.Lower:
  panic(badUplo)
 case n < 0:
  panic(nLT0)
 case
 kd < 0:
  panic(kdLT0)
 case ldab < kd+1:
  panic(badLdA)
 case anorm < 0:
  panic(badNorm)
 }

 // Quick return if possible.
 if n == 0 {
  return 1
 }

 switch {
 case len(ab) < (n-1)*ldab+kd+1:
  panic(shortAB)
 case len(work) < 3*n:
  panic(shortWork)
 case len(iwork) < n:
  panic(shortIWork)
 }

 // Quick return if possible.
 if anorm == 0 {
  return 0
 }

 const smlnum = dlamchS
```

```
var (
 ainvnm float64
 kase   int
 isave  [3]int
 normin bool

 // Denote work slices.
 x     = work[:n]
 v     = work[n : 2*n]
 cnorm = work[2*n : 3*n]
)
// Estimate the 1-norm of the inverse.
bi := blas64.Implementation()
for {
 ainvnm, kase = impl.Dlacn2(n, v, x, iwork, ainvnm, kase, &isave)
 if kase == 0 {
  break
 }
 var op1, op2 blas.Transpose
 if uplo == blas.Upper {
  // Multiply x by inv(U),
  op1 = blas.Trans
  // then by inv(U).
  op2 = blas.NoTrans
 } else {
  // Multiply x by inv(L),
  op1 = blas.NoTrans
  // then by inv(L).
  op2 = blas.Trans
 }
 scaleL
:= impl.Dlatbs(uplo, op1, blas.NonUnit, normin, n, kd, ab, ldab, x, cnorm)
 normin = true
 scaleU := impl.Dlatbs(uplo, op2, blas.NonUnit, normin, n, kd, ab, ldab, x, cnorm)
 // Multiply x by 1/scale if doing so will not cause overflow.
 scale := scaleL * scaleU
 if scale != 1 {
  ix := bi.Idamax(n, x, 1)
  if scale < math.Abs(x[ix])*smlnum || scale == 0 {
   return 0
  }
  impl.Drscl(n, scale, x, 1)
 }
}
if ainvnm == 0 {
 return 0
}
```

```
 // Return the estimate of the reciprocal condition number.
 return (1 / ainvnm) / anorm
}
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// license that can be found in the LICENSE file.

package f32

import (
 "fmt"
 "testing"
)

var (
 benchSink   float32
 benchSink64 float64
)

func BenchmarkDotUnitary(t *testing.B) {
 const name = "DotUnitary"
 for _, v := range []int64{1, 2, 3, 4, 5, 10, 100, 1e3, 5e3, 1e4, 5e4} {
  t.Run(fmt.Sprintf("%s-%d", name, v), func(b *testing.B) {
   x, y := x[:v], y[:v]
   b.SetBytes(32 * v)
   for i := 0; i < b.N; i++ {
    benchSink = DotUnitary(x, y)
   }
  })
 }
}

func BenchmarkDdotUnitary(t *testing.B) {
 const name = "DdotUnitary"
 for _, v := range []int64{1, 2, 3, 4, 5, 10, 100, 1e3, 5e3, 1e4, 5e4} {
  t.Run(fmt.Sprintf("%s-%d", name, v), func(b *testing.B) {
   x, y := x[:v], y[:v]
   b.SetBytes(32 * v)
   for i := 0; i < b.N; i++ {
    benchSink64 = DdotUnitary(x, y)
   }
  })
 }
}

var incsDot = []struct {
 len int
 inc []int
```

```
}{
 {1, []int{1}},
 {3, []int{1, 2, 4, 10}},
 {10,
 []int{1, 2, 4, 10}},
 {30, []int{1, 2, 4, 10}},
 {1e2, []int{1, 2, 4, 10}},
 {3e2, []int{1, 2, 4, 10}},
 {1e3, []int{1, 2, 4, 10}},
 {3e3, []int{1, 2, 4, 10}},
 {1e4, []int{1, 2, 4, 10, -1, -2, -4, -10}},
}

func BenchmarkDotInc(t *testing.B) {
 const name = "DotInc"
 for _, tt := range incsDot {
  for _, inc := range tt.inc {
   t.Run(fmt.Sprintf("%s-%d-inc(%d)", name, tt.len, inc), func(b *testing.B) {
    b.SetBytes(int64(32 * tt.len))
    idx := 0
    if inc < 0 {
     idx = (-tt.len + 1) * inc
    }
    for i := 0; i < b.N; i++ {
     benchSink = DotInc(x, y, uintptr(tt.len), uintptr(inc), uintptr(inc), uintptr(idx), uintptr(idx))
    }
   })
  }
 }
}

func BenchmarkDdotInc(t *testing.B) {
 const name = "DdotInc"
 for _, tt := range incsDot {
  for _, inc := range tt.inc {
   t.Run(fmt.Sprintf("%s-%d-inc(%d)", name, tt.len, inc), func(b *testing.B) {
    b.SetBytes(int64(32 * tt.len))
    idx := 0
    if inc < 0 {
     idx = (-tt.len + 1) * inc
    }
    for i := 0; i < b.N;
 i++ {
     benchSink64 = DdotInc(x, y, uintptr(tt.len), uintptr(inc), uintptr(inc), uintptr(idx), uintptr(idx))
    }
   })
  }
 }
```

```
}
graph{{subGr_{subGr_}subGr_}{subGr_{}subGr_}{{subGr_}subGr_}{subGr_{subGr_}subGr_}}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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// license that can be found in the LICENSE file.

package unit

import (
 "errors"
 "fmt"
 "math"
 "unicode/utf8"
)

// Velocity represents a velocity in metres per second.
type Velocity float64

// Unit converts the Velocity to a *Unit
func (v Velocity) Unit() *Unit {
 return New(float64(v), Dimensions{
  LengthDim: 1,
  TimeDim:   -1,
 })
}

// Velocity allows Velocity to implement a Velocityer interface
func (v Velocity) Velocity() Velocity {
 return v
}

// From converts the unit into the receiver. From returns an
// error if there is a mismatch in dimension
func (v *Velocity) From(u Uniter) error {
 if !DimensionsMatch(u, Velocity(0)) {
  *v = Velocity(math.NaN())
  return errors.New("Dimension mismatch")
 }
 *v = Velocity(u.Unit().Value())
 return nil
}

func (v Velocity) Format(fs fmt.State, c rune)
 {
 switch c {
 case 'v':
```

```
  if fs.Flag('#') {
   fmt.Fprintf(fs, "%T(%v)", v, float64(v))
   return
  }
  fallthrough
 case 'e', 'E', 'f', 'F', 'g', 'G':
  p, pOk := fs.Precision()
  w, wOk := fs.Width()
  const unit = " m s^-1"
  switch {
  case pOk && wOk:
   fmt.Fprintf(fs, "%*.*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), p, float64(v))
  case pOk:
   fmt.Fprintf(fs, "%.*"+string(c), p, float64(v))
  case wOk:
   fmt.Fprintf(fs, "%*"+string(c), pos(w-utf8.RuneCount([]byte(unit))), float64(v))
  default:
   fmt.Fprintf(fs, "%"+string(c), float64(v))
  }
  fmt.Fprint(fs, unit)
 default:
  fmt.Fprintf(fs, "%%!%c(%T=%g m s^-1)", c, v, float64(v))
 }
}
graph{DiGr{DiGr}}
graph{<{\{\Z>}
graph{{{{edge5{{{{edge5}}}edge5}}edge5{edge5}}}}
graph{SubgrapU}
graph{{<><><><>}<><><>}
graph{{{{su}{su}su}{su}su}{su}}
graph{<<==================>>}
graph{subGrapd}
graph{{STR}STR{STR}}
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package network

import (
 "math"

 "gonum.org/v1/gonum/floats"
 "gonum.org/v1/gonum/graph"
)

// HubAuthority is a Hyperlink-Induced Topic Search hub-authority score pair.
type HubAuthority struct {
```

```
 Hub       float64
 Authority float64
}

// HITS returns the Hyperlink-Induced Topic Search hub-authority scores for
// nodes of the directed graph g. HITS terminates when the 2-norm of the
// vector difference between iterations is below tol. The returned map is
// keyed on the graph node IDs.
func HITS(g graph.Directed, tol float64) map[int64]HubAuthority {
 nodes := graph.NodesOf(g.Nodes())

 // Make a topological copy of g with dense node IDs.
 indexOf := make(map[int64]int, len(nodes))
 for i, n := range nodes {
  indexOf[n.ID()] = i
 }
 nodesLinkingTo := make([][]int, len(nodes))
 nodesLinkedFrom := make([][]int, len(nodes))
 for
 i, n := range nodes {
  id := n.ID()
  for _, u := range graph.NodesOf(g.To(id)) {
   nodesLinkingTo[i] = append(nodesLinkingTo[i], indexOf[u.ID()])
  }
  for _, v := range graph.NodesOf(g.From(id)) {
   nodesLinkedFrom[i] = append(nodesLinkedFrom[i], indexOf[v.ID()])
  }
 }

 w := make([]float64, 4*len(nodes))
 auth := w[:len(nodes)]
 hub := w[len(nodes) : 2*len(nodes)]
 for i := range nodes {
  auth[i] = 1
  hub[i] = 1
 }
 deltaAuth := w[2*len(nodes) : 3*len(nodes)]
 deltaHub := w[3*len(nodes):]

 var norm float64
 for {
  norm = 0
  for v := range nodes {
   var a float64
   for _, u := range nodesLinkingTo[v] {
    a += hub[u]
   }
   deltaAuth[v] = auth[v]
```

```
  auth[v] = a
  norm += a * a
 }
 norm = math.Sqrt(norm)

 for i := range auth {
  auth[i] /= norm
  deltaAuth[i] -= auth[i]
 }

 norm = 0
 for u := range nodes {
  var h float64
  for _, v := range nodesLinkedFrom[u] {
   h += auth[v]
  }
  deltaHub[u] = hub[u]
  hub[u] = h
  norm += h * h
 }
 norm = math.Sqrt(norm)

 for
i := range hub {
  hub[i] /= norm
  deltaHub[i] -= hub[i]
 }

 if floats.Norm(deltaAuth, 2) < tol && floats.Norm(deltaHub, 2) < tol {
  break
 }
}

hubAuth := make(map[int64]HubAuthority, len(nodes))
for i, n := range nodes {
 hubAuth[n.ID()] = HubAuthority{Hub: hub[i], Authority: auth[i]}
}

return hubAuth
}
sudo: false

language: go

# Do not move these lines; they are referred to by README.md.
# Versions of go that are explicitly supported by gonum plus go tip.
go:
- 1.13.x
```

```
- 1.12.x
- master

os:
- linux
- osx
- windows

env:
global:
 - GO111MODULE=on
 - GOFLAGS="-mod=readonly"
matrix:
 - TAGS=""
 - TAGS="-tags bounds"
 - TAGS="-tags noasm"
 - TAGS="-tags appengine"

cache:
directories:
 - $HOME/.cache/go-build
 - $HOME/gopath/pkg/mod

git:
depth: 1

matrix:
fast_finish: true
exclude:
 - os: osx
   env: TAGS="-tags bounds"
 - os: osx
   env: TAGS="-tags noasm"
 - os: osx
   env: TAGS="-tags appengine"

 - os: osx
   go: master

 - os: windows
   env: TAGS="-tags bounds"
 - os: windows
   env: TAGS="-tags noasm"
 - os: windows
   env: TAGS="-tags appengine"

 - os: windows
   go: master
```

```
allow_failures:
 - go: master

before_install:
# Make sure we have the origin master to compare HEADs and
# save the sha for comparison in test-coverage.sh.
# It is
 necessary to do this here since the rigmarole for
# Windows loses the link to the real origin master.
- git fetch --depth=1 origin master
- export ORIGIN_MASTER=$(git ls-remote origin master | cut -f1)

# This garbage is necessary because on windows, Travis
# helpfully sets core.autocrlf to true.
#
# The block here repeats the clone after having unset
# core.autcrlf. There is no simple way to do this
# conditionally on OS because windows will not allow
# a file to be removed or moved while the file is open,
# and we use constructed paths to scripts to get
# conditional execution.
#
# Happy windowsing!
- pushd ../../..
- mv gonum.org/v1/gonum .
- git config --global core.autocrlf false
- git clone gonum gonum.org/v1/gonum
- popd

- ${TRAVIS_BUILD_DIR}/.travis/run-parts ${TRAVIS_BUILD_DIR}/.travis/deps.d/${TRAVIS_OS_NAME}

addons:
 apt:
   packages:
    - graphviz

go_import_path: gonum.org/v1/gonum

# Get deps, build, test, and ensure the code is gofmt'ed.
# If we
 are building as gonum, then we have access to the coveralls api key, so we can run coverage as well.
script:
- ${TRAVIS_BUILD_DIR}/.travis/run-parts ${TRAVIS_BUILD_DIR}/.travis/run.d/${TRAVIS_OS_NAME}
graph {}
graph{__}
graph{NoN{NoR{NoR}NoR{NoR}NoR{NoR}NoR{NoR}NoR}}
graph{D{D}}
```

```
graph{{{subg{{{{subg}}}}}}}
graph{{STRIR}STRIR}
// SPDX-License-Identifier: Unlicense OR MIT

// +build android

package app

import "C"

import (
 "sync"

 "gioui.org/app/internal/window"
)

var (
 dataDirOnce sync.Once
 dataPath    string
)

func dataDir() (string, error) {
 dataDirOnce.Do(func() {
  dataPath = window.GetDataDir()
 })
 return dataPath, nil
}
graph{{{{{SUBGRA0}}{{}{}{{}}}}}{{{}{SUBGRA0{{SUBGRA5{SUBGRA0}}}}}}{{{SUBGRA5<>}""""""""
}}{{{SUBGRA5{}}{{{SUBGRA5{SUBGRA0}}}}}}{{{SUBGRA5{SUBGRA0}}{SUBGRA0{{{SUBGRA0}}}
{{{}}}}}}{{{}{SUBGRA0{{SUBGRA5{}}}}}{{SUBGRA5{SUBGRA0}}{SUBGRA0{{{SUBGRA0}SUBGRA
5{}}}}}{{SUBGRA5{SUBGRA0}}{SUBGRA0{{SUBGRA5{SUBGRA0}}}}}{{SUBGRA5{}}{SUBGRA0{{}}
}}}}
      SUBROUTINE ZUCHK(YR, YI, NZ, ASCLE, TOL)
C***BEGIN PROLOGUE  ZUCHK
C***REFER TO ZSERI,ZUOIK,ZUNK1,ZUNK2,ZUNI1,ZUNI2,ZKSCL
C
C     Y ENTERS AS A SCALED QUANTITY WHOSE MAGNITUDE IS GREATER THAN
C     EXP(-ALIM)=ASCLE=1.0E+3*D1MACH(1)/TOL. THE TEST IS MADE TO SEE
C     IF THE MAGNITUDE OF THE REAL OR IMAGINARY PART WOULD UNDERFLOW
C     WHEN Y IS SCALED (BY TOL) TO ITS PROPER VALUE. Y IS ACCEPTED
C     IF THE UNDERFLOW IS AT LEAST ONE PRECISION BELOW THE MAGNITUDE
C     OF THE LARGEST COMPONENT; OTHERWISE THE PHASE ANGLE DOES NOT HAVE
C     ABSOLUTE ACCURACY AND AN UNDERFLOW IS ASSUMED.
C
C***ROUTINES CALLED  (NONE)
C***END PROLOGUE  ZUCHK
C
C    COMPLEX Y
```

```
      DOUBLE PRECISION ASCLE, SS, ST, TOL, WR, WI, YR, YI
      INTEGER NZ
      NZ = 0
      WR = DABS(YR)
      WI = DABS(YI)
      ST = DMIN1(WR,WI)
      IF (ST.GT.ASCLE) RETURN
      SS = DMAX1(WR,WI)
      ST = ST/TOL
      IF (SS.LT.ST) NZ = 1
      RETURN
      END
graph{SubGE{{SubGE{SubGZ}SubGE{SubGZ}SubGZ}}}
       DOUBLE PRECISION FUNCTION MYSIN(A)
      DOUBLE PRECISION A
      MYSIN = DSIN(A)
      RETURN
      END
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// license that can be found in the LICENSE file.

package mat

import (
 "testing"

 "golang.org/x/exp/rand"
)

func TestHOGSVD(t *testing.T) {
 const tol = 1e-10
 rnd := rand.New(rand.NewSource(1))
 for cas, test := range []struct {
  r, c int
 }{
  {5, 3},
  {5, 5},
  {150, 150},
  {200, 150},

  // Calculating A_i*A_j and A_j*A_i fails for wide matrices.
  {3, 5},
 } {
  r := test.r
  c := test.c
  for n := 3; n < 6; n++ {
   data := make([]Matrix, n)
```

```
  dataCopy := make([]*Dense, n)
  for trial := 0; trial < 10; trial++ {
   for i := range data {
    d := NewDense(r, c, nil)
    for j := range d.mat.Data {
     d.mat.Data[j] = rnd.Float64()
    }
    data[i] = d
    dataCopy[i] = DenseCopyOf(d)
   }

   var gsvd HOGSVD
   ok := gsvd.Factorize(data...)
   if r >= c {
    if !ok {
     t.Errorf("HOGSVD factorization failed for %d %d%d matrices: %v", n, r, c, gsvd.Err())
     continue
    }
   }
else {
    if ok {
     t.Errorf("HOGSVD factorization unexpectedly succeeded for %d %d%d matrices", n, r, c)
    }
    continue
   }
   for i := range data {
    if !Equal(data[i], dataCopy[i]) {
     t.Errorf("A changed during call to HOGSVD.Factorize")
    }
   }
   u, s, v := extractHOGSVD(&gsvd)
   for i, want := range data {
    var got Dense
    sigma := NewDense(c, c, nil)
    for j := 0; j < c; j++ {
     sigma.Set(j, j, s[i][j])
    }

    got.Product(u[i], sigma, v.T())
    if !EqualApprox(&got, want, tol) {
     t.Errorf("test %d n=%d trial %d: unexpected answer\nU_%[4]d * S_%[4]d * V:\n% 0.2f\nD_%d:\n% 0.2f",
      cas, n, trial, i, Formatted(&got, Excerpt(5)), i, Formatted(want, Excerpt(5)))
    }
   }
  }
 }
}
```

```
func extractHOGSVD(gsvd *HOGSVD) (u []*Dense, s [][]float64, v *Dense) {
 u = make([]*Dense, gsvd.Len())
 s = make([][]float64, gsvd.Len())
 for i := 0; i < gsvd.Len(); i++ {
  u[i] = &Dense{}
  gsvd.UTo(u[i],
 i)
  s[i] = gsvd.Values(nil, i)
 }
 v = &Dense{}
 gsvd.VTo(v)
 return u, s, v
}
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package distmv

import (
 "math"
 "testing"

 "gonum.org/v1/gonum/spatial/r1"
)

func TestUniformEntropy(t *testing.T) {
 for _, test := range []struct {
  Uniform *Uniform
  Entropy float64
 }{
  {
   NewUniform([]r1.Interval{{0, 1}, {0, 1}}, nil),
   0,
  },
  {
   NewUniform([]r1.Interval{{-1, 3}, {2, 8}, {-5, -3}}, nil),
   math.Log(48),
  },
 } {
  ent := test.Uniform.Entropy()
  if math.Abs(ent-test.Entropy) > 1e-14 {
   t.Errorf("Entropy mismatch. Got %v, want %v", ent, test.Entropy)
  }
 }
}
```

```
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package testlapack

import (
 "fmt"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
)

type Dlaseter interface {
 Dlaset(uplo blas.Uplo, m, n int, alpha, beta float64, a []float64, lda int)
}

func DlasetTest(t *testing.T, impl Dlaseter) {
 rnd := rand.New(rand.NewSource(1))
 for ti, test := range []struct {
  m, n int
 }{
  {0, 0},
  {1, 1},
  {1, 10},
  {10, 1},
  {2, 2},
  {2, 10},
  {10, 2},
  {11, 11},
  {11, 100},
  {100, 11},
 } {
  m := test.m
  n := test.n
  for _, uplo := range []blas.Uplo{blas.Upper, blas.Lower, blas.All} {
   for _, extra := range []int{0, 10} {
    a := randomGeneral(m, n, n+extra, rnd)
    alpha := 1.0
    beta := 2.0

    impl.Dlaset(uplo, m, n, alpha, beta, a.Data, a.Stride)

    prefix := fmt.Sprintf("Case #%v: m=%v,n=%v,uplo=%v,extra=%v",
     ti, m, n, uplo, extra)
    if !generalOutsideAllNaN(a)
```

```
 {
    t.Errorf("%v: out-of-range write to A", prefix)
   }
   for i := 0; i < min(m, n); i++ {
    if a.Data[i*a.Stride+i] != beta {
     t.Errorf("%v: unexpected diagonal of A", prefix)
    }
   }
   if uplo == blas.Upper || uplo == blas.All {
    for i := 0; i < m; i++ {
     for j := i + 1; j < n; j++ {
      if a.Data[i*a.Stride+j] != alpha {
       t.Errorf("%v: unexpected upper triangle of A", prefix)
      }
     }
    }
   }
   if uplo == blas.Lower || uplo == blas.All {
    for i := 1; i < m; i++ {
     for j := 0; j < min(i, n); j++ {
      if a.Data[i*a.Stride+j] != alpha {
       t.Errorf("%v: unexpected lower triangle of A", prefix)
      }
     }
    }
   }
  }
 }
}
graph{N_}
graph{{{{{

}}


{{{

}}


{

}}
{

}}
```

```
}}
graph{{{g}g}}
Graph{Grap[]Grap[]Grap[]Grap[]Grap[]Grap}
graph{{dy}}
graph{{{DiGrag}DiGrag}{DiGrag}}
graph{{{{{Digra_{Digra_}{Digra_{Digra_}}}}}}}
graph{{{{{{diGrS}}}diGrS{{{diGrS}}}diGrS}}}
graph{{{{{{{str{{str}}}}}}}}}
graph{{d{{d}}d}}
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// Package gen provides random graph generation functions.
package gen // import "gonum.org/v1/gonum/graph/graphs/gen"
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// license that can be found in the LICENSE file.

package distuv

// Parameter represents a parameter of a probability distribution
type Parameter struct {
 Name  string
 Value float64
}

var (
 badPercentile = "distuv: percentile out of bounds"
 badLength     = "distuv: slice length mismatch"
 badSuffStat   = "distuv: wrong suffStat length"
 badNoSamples  = "distuv: must have at least one sample"
)

const (
 expNegOneHalf   = 0.6065306597126334236037995349911804534419 // https://oeis.org/A092605
 eulerMascheroni = 0.5772156649015328606065120900824024310421 // https://oeis.org/A001620
 apery           = 1.2020569031595942853997381615114499907649 // https://oeis.org/A002117
)
graph{{StrO}StrK}
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package mat

import (
```

```
 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/blas/blas64"
 "gonum.org/v1/gonum/lapack/lapack64"
)

// Solve finds a minimum-norm solution to a system of linear equations defined
// by the matrices A and B. If A is singular or near-singular, a Condition error
// is returned. See the documentation for Condition for more information.
//
// The minimization problem solved depends on the input parameters:
//  - if m >= n, find X such that ||A*X - B||_2 is minimized,
//  - if m < n, find the minimum norm solution of A * X = B.
// The solution matrix, X, is stored in-place into the receiver.
func (m *Dense) Solve(a, b Matrix) error {
 ar, ac := a.Dims()
 br, bc := b.Dims()
 if ar != br {
  panic(ErrShape)
 }
 m.reuseAsNonZeroed(ac, bc)

 // TODO(btracey): Add special cases for SymDense, etc.
 aU, aTrans := untranspose(a)
 bU,
 bTrans := untranspose(b)
 switch rma := aU.(type) {
 case RawTriangular:
  side := blas.Left
  tA := blas.NoTrans
  if aTrans {
   tA = blas.Trans
   }

  switch rm := bU.(type) {
  case RawMatrixer:
   if m != bU || bTrans {
    if m == bU || m.checkOverlap(rm.RawMatrix()) {
     tmp := getWorkspace(br, bc, false)
     tmp.Copy(b)
     m.Copy(tmp)
     putWorkspace(tmp)
     break
    }
    m.Copy(b)
   }
  default:
   if m != bU {
    m.Copy(b)
```

```
  } else if bTrans {
   // m and b share data so Copy cannot be used directly.
   tmp := getWorkspace(br, bc, false)
   tmp.Copy(b)
   m.Copy(tmp)
   putWorkspace(tmp)
  }
 }

 rm := rma.RawTriangular()
 blas64.Trsm(side, tA, 1, rm, m.mat)
 work := getFloats(3*rm.N, false)
 iwork := getInts(rm.N, false)
 cond := lapack64.Trcon(CondNorm, rm, work, iwork)
 putFloats(work)
 putInts(iwork)
 if cond > ConditionTolerance {
  return Condition(cond)
 }
 return nil
}

switch {
case ar == ac:
 if a == b {
  // x
= I.
  if ar == 1 {
   m.mat.Data[0] = 1
   return nil
  }
  for i := 0; i < ar; i++ {
   v := m.mat.Data[i*m.mat.Stride : i*m.mat.Stride+ac]
   zero(v)
   v[i] = 1
  }
  return nil
 }
 var lu LU
 lu.Factorize(a)
 return lu.SolveTo(m, false, b)
case ar > ac:
 var qr QR
 qr.Factorize(a)
 return qr.SolveTo(m, false, b)
default:
 var lq LQ
 lq.Factorize(a)
```

```
  return lq.SolveTo(m, false, b)
 }
}

// SolveVec finds a minimum-norm solution to a system of linear equations defined
// by the matrix a and the right-hand side column vector b. If A is singular or
// near-singular, a Condition error is returned. See the documentation for
// Dense.Solve for more information.
func (v *VecDense) SolveVec(a Matrix, b Vector) error {
 if _, bc := b.Dims(); bc != 1 {
  panic(ErrShape)
 }
 _, c := a.Dims()

 // The Solve implementation is non-trivial, so rather than duplicate the code,
 // instead recast the VecDenses as Dense and call the matrix code.

 if rv, ok := b.(RawVectorer); ok
 {
  bmat := rv.RawVector()
  if v != b {
   v.checkOverlap(bmat)
  }
  v.reuseAsNonZeroed(c)
  m := v.asDense()
  // We conditionally create bm as m when b and v are identical
  // to prevent the overlap detection code from identifying m
  // and bm as overlapping but not identical.
  bm := m
  if v != b {
   b := VecDense{mat: bmat}
   bm = b.asDense()
  }
  return m.Solve(a, bm)
 }

 v.reuseAsNonZeroed(c)
 m := v.asDense()
 return m.Solve(a, b)
}
graph{{{{{{{edgeg}}edgeg{{{edgeg}}edgeg}}}}edgeg}}
graph{{EDG{EDG{EDG}}}}
// Copyright 2014 The Gonum Authors. All rights reserved.
// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

package testblas
```

```
import (
 "testing"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/floats"
)

type Dspmver interface {
 Dspmv(ul blas.Uplo, n int, alpha float64, ap []float64, x []float64, incX int, beta float64, y []float64, incY int)
}

func DspmvTest(t *testing.T, blasser Dspmver) {
 for i, test := range []struct {
  ul    blas.Uplo
  n     int
  a     [][]float64
  x     []float64
  y     []float64
  alpha float64
  beta  float64
  ans   []float64
 }{
  {
   ul: blas.Upper,
   n:  3,
   a: [][]float64{
    {5, 6, 7},
    {0, 8, 10},
    {0, 0, 13},
   },
   x:     []float64{3, 4, 5},
   y:     []float64{6, 7, 8},
   alpha: 2.1,
   beta:  -3,
   ans:   []float64{137.4, 189, 240.6},
  },
  {
   ul: blas.Lower,
   n:  3,
   a: [][]float64{
    {5, 0, 0},
    {6, 8, 0},
    {7, 10, 13},
   },
   x:     []float64{3, 4, 5},
   y:
    []float64{6, 7, 8},
   alpha: 2.1,
```

```
  beta:  -3,
  ans:   []float64{137.4, 189, 240.6},
 },
} {
 incTest := func(incX, incY, extra int) {
  x := makeIncremented(test.x, incX, extra)
  y := makeIncremented(test.y, incY, extra)
  aFlat := flattenTriangular(test.a, test.ul)
  ans := makeIncremented(test.ans, incY, extra)

  blasser.Dspmv(test.ul, test.n, test.alpha, aFlat, x, incX, test.beta, y, incY)
  if !floats.EqualApprox(ans, y, 1e-14) {
   t.Errorf("Case %v, incX=%v, incY=%v: Want %v, got %v.", i, incX, incY, ans, y)
  }
 }
 incTest(1, 1, 0)
 incTest(2, 3, 0)
 incTest(3, 2, 0)
 incTest(-3, 2, 0)
 incTest(-2, 4, 0)
 incTest(2, -1, 0)
 incTest(-3, -4, 3)
}
}
graph{diG{{diG{diG}}}}
graph{{SU{{SU}}}}
graph{{ED}ED{ED}ED{ED}}
digraph {ep eg ef ee}
graph{sub{sub{{sub}{sub}{sub{sub{{sub}{sub}sub}}}sub}}}
graph{{{subG1}{subG1}}}
graph{diGra0[diGra0=""]}
graph{{subgr}subgr}
graph{DI{DI}}
# Go Time

This repository provides supplementary Go time packages.

## Download/Install

The easiest way to install is to run `go get -u golang.org/x/time`. You can
also manually git clone the repository to `$GOPATH/src/golang.org/x/time`.

## Report Issues / Send Patches

This repository uses Gerrit for code changes. To learn how to submit changes to
this repository, see https://golang.org/doc/contribute.html.

The main issue tracker for the time repository is located at
```

```
https://github.com/golang/go/issues. Prefix your issue with "x/time:" in the
subject line, so it is easy to find.
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// license that can be found in the LICENSE file.

package mat

import (
 "testing"

 "golang.org/x/exp/rand"
)

func TestLUD(t *testing.T) {
 for _, n := range []int{1, 5, 10, 11, 50} {
  a := NewDense(n, n, nil)
  for i := 0; i < n; i++ {
   for j := 0; j < n; j++ {
    a.Set(i, j, rand.NormFloat64())
   }
  }
  var want Dense
  want.CloneFrom(a)

  var lu LU
  lu.Factorize(a)

  var l, u TriDense
  lu.LTo(&l)
  lu.UTo(&u)
  var p Dense
  pivot := lu.Pivot(nil)
  p.Permutation(n, pivot)
  var got Dense
  got.Product(&p, &l, &u)
  if !EqualApprox(&got, &want, 1e-12) {
   t.Errorf("PLU does not equal original matrix.\nWant: %v\n Got: %v", want, got)
  }
 }
}

func TestLURankOne(t *testing.T) {
 for _, pivoting := range []bool{true} {
  for _, n := range []int{3, 10, 50} {
   // Construct a random LU factorization
   lu := &LU{}
   lu.lu = NewDense(n, n, nil)
```

```
  for i := 0; i <
n; i++ {
   for j := 0; j < n; j++ {
    lu.lu.Set(i, j, rand.Float64())
   }
  }
  lu.pivot = make([]int, n)
  for i := range lu.pivot {
   lu.pivot[i] = i
  }
  if pivoting {
   // For each row, randomly swap with itself or a row after (like is done)
   // in the actual LU factorization.
   for i := range lu.pivot {
    idx := i + rand.Intn(n-i)
    lu.pivot[i], lu.pivot[idx] = lu.pivot[idx], lu.pivot[i]
   }
  }
  // Apply a rank one update. Ensure the update magnitude is larger than
  // the equal tolerance.
  alpha := rand.Float64() + 1
  x := NewVecDense(n, nil)
  y := NewVecDense(n, nil)
  for i := 0; i < n; i++ {
   x.setVec(i, rand.Float64()+1)
   y.setVec(i, rand.Float64()+1)
  }
  a := luReconstruct(lu)
  a.RankOne(a, alpha, x, y)

  var luNew LU
  luNew.RankOne(lu, alpha, x, y)
  lu.RankOne(lu, alpha, x, y)

  aR1New := luReconstruct(&luNew)
  aR1 := luReconstruct(lu)

  if !Equal(aR1, aR1New) {
   t.Error("Different answer when new receiver")
  }
  if
!EqualApprox(aR1, a, 1e-10) {
   t.Errorf("Rank one mismatch, pivot %v.\nWant: %v\nGot:%v\n", pivoting, a, aR1)
  }
 }
}
}
```

```
// luReconstruct reconstructs the original A matrix from an LU decomposition.
func luReconstruct(lu *LU) *Dense {
 var L, U TriDense
 lu.LTo(&L)
 lu.UTo(&U)
 var P Dense
 pivot := lu.Pivot(nil)
 P.Permutation(len(pivot), pivot)

 var a Dense
 a.Mul(&L, &U)
 a.Mul(&P, &a)
 return &a
}

func TestLUSolveTo(t *testing.T) {
 for _, test := range []struct {
  n, bc int
 }{
  {5, 5},
  {5, 10},
  {10, 5},
 } {
  n := test.n
  bc := test.bc
  a := NewDense(n, n, nil)
  for i := 0; i < n; i++ {
   for j := 0; j < n; j++ {
    a.Set(i, j, rand.NormFloat64())
   }
  }
  b := NewDense(n, bc, nil)
  for i := 0; i < n; i++ {
   for j := 0; j < bc; j++ {
    b.Set(i, j, rand.NormFloat64())
   }
  }
  var lu LU
  lu.Factorize(a)
  var x Dense
  if err := lu.SolveTo(&x, false, b); err != nil {
   continue
  }
  var got Dense
  got.Mul(a, &x)
  if !EqualApprox(&got,
 b, 1e-12) {
   t.Errorf("SolveTo mismatch for non-singular matrix. n = %v, bc = %v.\nWant: %v\nGot: %v", n, bc, b, got)
```

```
  }
 }
 // TODO(btracey): Add testOneInput test when such a function exists.
}

func TestLUSolveToCond(t *testing.T) {
 for _, test := range []*Dense{
  NewDense(2, 2, []float64{1, 0, 0, 1e-20}),
 } {
  m, _ := test.Dims()
  var lu LU
  lu.Factorize(test)
  b := NewDense(m, 2, nil)
  var x Dense
  if err := lu.SolveTo(&x, false, b); err == nil {
   t.Error("No error for near-singular matrix in matrix solve.")
  }

  bvec := NewVecDense(m, nil)
  var xvec VecDense
  if err := lu.SolveVecTo(&xvec, false, bvec); err == nil {
   t.Error("No error for near-singular matrix in matrix solve.")
  }
 }
}

func TestLUSolveVecTo(t *testing.T) {
 for _, n := range []int{5, 10} {
  a := NewDense(n, n, nil)
  for i := 0; i < n; i++ {
   for j := 0; j < n; j++ {
    a.Set(i, j, rand.NormFloat64())
   }
  }
  b := NewVecDense(n, nil)
  for i := 0; i < n; i++ {
   b.SetVec(i, rand.NormFloat64())
  }
  var
 lu LU
  lu.Factorize(a)
  var x VecDense
  if err := lu.SolveVecTo(&x, false, b); err != nil {
   continue
  }
  var got VecDense
  got.MulVec(a, &x)
  if !EqualApprox(&got, b, 1e-12) {
```

```
  t.Errorf("SolveTo mismatch n = %v.\nWant: %v\nGot: %v", n, b, got)
  }
 }
 // TODO(btracey): Add testOneInput test when such a function exists.
}
graph{<<aa>>}
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// license that can be found in the LICENSE file.

package sampleuv

import (
 "sort"
 "testing"

 "gonum.org/v1/gonum/floats"
 "gonum.org/v1/gonum/stat"
 "gonum.org/v1/gonum/stat/distuv"
)

const tol = 1e-2

type lhDist interface {
 Quantile(float64) float64
 CDF(float64) float64
}

func TestLatinHypercube(t *testing.T) {
 for _, nSamples := range []int{1, 2, 5, 10, 20} {
  samples := make([]float64, nSamples)
  for _, dist := range []lhDist{
   distuv.Uniform{Min: 0, Max: 1},
   distuv.Uniform{Min: 0, Max: 10},
   distuv.Normal{Mu: 5, Sigma: 3},
  } {
   LatinHypercube{Q: dist}.Sample(samples)
   sort.Float64s(samples)
   for i, v := range samples {
    p := dist.CDF(v)
    if p < float64(i)/float64(nSamples) || p > float64(i+1)/float64(nSamples) {
     t.Errorf("probability out of bounds")
    }
   }
  }
 }
}
```

```
func TestImportance(t *testing.T) {
 // Test by finding the expected
 value of a Normal.
 trueMean := 3.0
 target := distuv.Normal{Mu: trueMean, Sigma: 2}
 proposal := distuv.Normal{Mu: 0, Sigma: 5}
 nSamples := 100000
 x := make([]float64, nSamples)
 weights := make([]float64, nSamples)
 Importance{Target: target, Proposal: proposal}.SampleWeighted(x, weights)
 ev := stat.Mean(x, weights)
 if !floats.EqualWithinAbsOrRel(ev, trueMean, tol, tol) {
  t.Errorf("Mean mismatch: Want %v, got %v", trueMean, ev)
 }
}

func TestRejection(t *testing.T) {
 // Test by finding the expected value of a Normal.
 trueMean := 3.0
 target := distuv.Normal{Mu: trueMean, Sigma: 2}
 proposal := distuv.Normal{Mu: 0, Sigma: 5}

 nSamples := 20000
 x := make([]float64, nSamples)
 r := &Rejection{Target: target, Proposal: proposal, C: 100}
 r.Sample(x)
 ev := stat.Mean(x, nil)
 if !floats.EqualWithinAbsOrRel(ev, trueMean, tol, tol) {
  t.Errorf("Mean mismatch: Want %v, got %v", trueMean, ev)
 }
}

type condNorm struct {
 Sigma float64
}

func (c condNorm) ConditionalRand(y float64)
 float64 {
 return distuv.Normal{Mu: y, Sigma: c.Sigma}.Rand()
}

func (c condNorm) ConditionalLogProb(x, y float64) float64 {
 return distuv.Normal{Mu: y, Sigma: c.Sigma}.LogProb(x)
}

func TestMetropolisHastings(t *testing.T) {
 // Test by finding the expected value of a Normal.
 trueMean := 3.0
```

```
 target := distuv.Normal{Mu: trueMean, Sigma: 2}
 proposal := condNorm{Sigma: 5}

 burnin := 500
 nSamples := 100000 + burnin
 x := make([]float64, nSamples)
 mh := MetropolisHastings{
  Initial:  100,
  Target:   target,
  Proposal: proposal,

  BurnIn: burnin,
 }
 mh.Sample(x)

 ev := stat.Mean(x, nil)
 if !floats.EqualWithinAbsOrRel(ev, trueMean, tol, tol) {
  t.Errorf("Mean mismatch: Want %v, got %v", trueMean, ev)
 }
}
graph{{GRA_{GRA_}GRA_}}
graph{SR{{SR{}SR{}SS}}SR{}SS}
graph{{DIGRA0}}
graph{{Edgeh{{Edge_}{Edge_}{{Edge_}{Edge_}}Edge_}Edge_}}
graph{di9{{di9{di9}di3}}}
graph{{digr_}}
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// license that can be found in the LICENSE file.

package mathext

import (
 "testing"

 "gonum.org/v1/gonum/floats"
)

func TestNormalQuantile(t *testing.T) {
 // Values from https://www.johndcook.com/blog/normal_cdf_inverse/
 p := []float64{
  0.0000001,
  0.00001,
  0.001,
  0.05,
  0.15,
  0.25,
  0.35,
```

```
 0.45,
 0.55,
 0.65,
 0.75,
 0.85,
 0.95,
 0.999,
 0.99999,
 0.9999999,
 }
 ans := []float64{
 -5.199337582187471,
 -4.264890793922602,
 -3.090232306167813,
 -1.6448536269514729,
 -1.0364333894937896,
 -0.6744897501960817,
 -0.38532046640756773,
 -0.12566134685507402,
 0.12566134685507402,
 0.38532046640756773,
 0.6744897501960817,
 1.0364333894937896,
 1.6448536269514729,
 3.090232306167813,
 4.264890793922602,
 5.199337582187471,
 }
 for i, v := range p {
  got := NormalQuantile(v)
  if !floats.EqualWithinAbsOrRel(got, ans[i], 1e-10, 1e-10) {
   t.Errorf("Quantile
 mismatch. Case %d, want: %v, got: %v", i, ans[i], got)
  }
 }
}

var nqtmp float64

func BenchmarkNormalQuantile(b *testing.B) {
 ps := make([]float64, 1000) // ensure there are small values
 floats.Span(ps, 0, 1)
 for i := 0; i < b.N; i++ {
  for _, v := range ps {
   nqtmp = NormalQuantile(v)
  }
 }
}
```

```
graph{gr}
*> \brief \b DLAPY2 returns sqrt(x2+y2).
*
*  =========== DOCUMENTATION ===========
*
* Online html documentation available at
*            http://www.netlib.org/lapack/explore-html/
*
*> \htmlonly
*> Download DLAPY2 + dependencies
*> <a href="http://www.netlib.org/cgi-bin/netlibfiles.tgz?format=tgz&filename=/lapack/lapack_routine/dlapy2.f">
*> [TGZ]</a>
*> <a href="http://www.netlib.org/cgi-bin/netlibfiles.zip?format=zip&filename=/lapack/lapack_routine/dlapy2.f">
*> [ZIP]</a>
*> <a href="http://www.netlib.org/cgi-bin/netlibfiles.txt?format=txt&filename=/lapack/lapack_routine/dlapy2.f">
*> [TXT]</a>
*> \endhtmlonly
*
*  Definition:
*  ===========
*
*       DOUBLE PRECISION FUNCTION DLAPY2( X, Y )
*
*       .. Scalar Arguments ..
*       DOUBLE PRECISION   X, Y
*       ..
*
*
*> \par Purpose:
*  =============
*>
*> \verbatim
*>
*> DLAPY2 returns sqrt(x**2+y**2), taking care not to cause unnecessary
*> overflow.
*> \endverbatim
*
*  Arguments:
*  ==========
*
*> \param[in] X
*>
 \verbatim
*>          X is DOUBLE PRECISION
*> \endverbatim
*>
*> \param[in] Y
*> \verbatim
```

```
*>          Y is DOUBLE PRECISION
*>          X and Y specify the values x and y.
*> \endverbatim
*
*  Authors:
*  ========
*
*> \author Univ. of Tennessee
*> \author Univ. of California Berkeley
*> \author Univ. of Colorado Denver
*> \author NAG Ltd.
*
*> \date September 2012
*
*> \ingroup auxOTHERauxiliary
*
*  =====================================================================
      DOUBLE PRECISION FUNCTION DLAPY2( X, Y )
*
*  -- LAPACK auxiliary routine (version 3.4.2) --
*  -- LAPACK is a software package provided by Univ. of Tennessee,    --
*  -- Univ. of California Berkeley, Univ. of Colorado Denver and NAG Ltd..--
*     September 2012
*
*     .. Scalar Arguments ..
      DOUBLE PRECISION   X, Y
*     ..
*
*  =====================================================================
*
*     .. Parameters ..
      DOUBLE PRECISION   ZERO
      PARAMETER          ( ZERO = 0.0D0 )

    DOUBLE PRECISION   ONE
      PARAMETER          ( ONE = 1.0D0 )
*     ..
*     .. Local Scalars ..
      DOUBLE PRECISION   W, XABS, YABS, Z
*     ..
*     .. Intrinsic Functions ..
      INTRINSIC          ABS, MAX, MIN, SQRT
*     ..
*     .. Executable Statements ..
*
      XABS = ABS( X )
      YABS = ABS( Y )
      W = MAX( XABS, YABS )
```

```
      Z = MIN( XABS, YABS )
      IF( Z.EQ.ZERO ) THEN
         DLAPY2 = W
      ELSE
         DLAPY2 = W*SQRT( ONE+( Z / W )**2 )
      END IF
      RETURN
*
*     End of DLAPY2
*
      END
graph{Dir{Dir{Dir}Dir}Dir}
graph{grap{grap}}
graph{SubgE{SubgJ{SubgJ}SubgJ}}
graph{{No}{No}}
graph{{{digrr}{digrr}digr}}
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// license that can be found in the LICENSE file.

// +build !amd64 noasm appengine safe

package c128

import "math/cmplx"

// AxpyUnitary is
//  for i, v := range x {
//   y[i] += alpha * v
//  }
func AxpyUnitary(alpha complex128, x, y []complex128) {
 for i, v := range x {
  y[i] += alpha * v
 }
}

// AxpyUnitaryTo is
//  for i, v := range x {
//   dst[i] = alpha*v + y[i]
//  }
func AxpyUnitaryTo(dst []complex128, alpha complex128, x, y []complex128) {
 for i, v := range x {
  dst[i] = alpha*v + y[i]
 }
}

// AxpyInc is
//  for i := 0; i < int(n); i++ {
```

```
//   y[iy] += alpha * x[ix]
//   ix += incX
//   iy += incY
//  }
func AxpyInc(alpha complex128, x, y []complex128, n, incX, incY, ix, iy uintptr) {
 for i := 0; i < int(n); i++ {
  y[iy] += alpha * x[ix]
  ix += incX
  iy += incY
 }
}

// AxpyIncTo is
//  for i := 0; i < int(n); i++ {
//   dst[idst] = alpha*x[ix] + y[iy]
//
   ix += incX
//   iy += incY
//   idst += incDst
//  }
func AxpyIncTo(dst []complex128, incDst, idst uintptr, alpha complex128, x, y []complex128, n, incX, incY, ix, iy
uintptr) {
 for i := 0; i < int(n); i++ {
  dst[idst] = alpha*x[ix] + y[iy]
  ix += incX
  iy += incY
  idst += incDst
 }
}

// DscalUnitary is
//  for i, v := range x {
//   x[i] = complex(real(v)*alpha, imag(v)*alpha)
//  }
func DscalUnitary(alpha float64, x []complex128) {
 for i, v := range x {
  x[i] = complex(real(v)*alpha, imag(v)*alpha)
 }
}

// DscalInc is
//  var ix uintptr
//  for i := 0; i < int(n); i++ {
//   x[ix] = complex(real(x[ix])*alpha, imag(x[ix])*alpha)
//   ix += inc
//  }
func DscalInc(alpha float64, x []complex128, n, inc uintptr) {
 var ix uintptr
```

```
 for i := 0; i < int(n); i++ {
  x[ix] = complex(real(x[ix])*alpha, imag(x[ix])*alpha)
  ix += inc
 }
}

// ScalInc is
//  var ix uintptr
//  for i := 0; i < int(n); i++ {
//   x[ix] *= alpha
//   ix += incX
//  }
func ScalInc(alpha complex128, x []complex128,
 n, inc uintptr) {
 var ix uintptr
 for i := 0; i < int(n); i++ {
  x[ix] *= alpha
  ix += inc
 }
}

// ScalUnitary is
//  for i := range x {
//   x[i] *= alpha
//  }
func ScalUnitary(alpha complex128, x []complex128) {
 for i := range x {
  x[i] *= alpha
 }
}

// DotcUnitary is
//  for i, v := range x {
//   sum += y[i] * cmplx.Conj(v)
//  }
//  return sum
func DotcUnitary(x, y []complex128) (sum complex128) {
 for i, v := range x {
  sum += y[i] * cmplx.Conj(v)
 }
 return sum
}

// DotcInc is
//  for i := 0; i < int(n); i++ {
//   sum += y[iy] * cmplx.Conj(x[ix])
//   ix += incX
//   iy += incY
```

```
//  }
//  return sum
func DotcInc(x, y []complex128, n, incX, incY, ix, iy uintptr) (sum complex128) {
 for i := 0; i < int(n); i++ {
  sum += y[iy] * cmplx.Conj(x[ix])
  ix += incX
  iy += incY
 }
 return sum
}

// DotuUnitary is
//  for i, v := range x {
//   sum += y[i] * v
//  }
//  return sum
func DotuUnitary(x, y []complex128) (sum complex128) {
 for i, v := range x {
  sum +=
 y[i] * v
 }
 return sum
}

// DotuInc is
//  for i := 0; i < int(n); i++ {
//   sum += y[iy] * x[ix]
//   ix += incX
//   iy += incY
//  }
//  return sum
func DotuInc(x, y []complex128, n, incX, incY, ix, iy uintptr) (sum complex128) {
 for i := 0; i < int(n); i++ {
  sum += y[iy] * x[ix]
  ix += incX
  iy += incY
 }
 return sum
}
graph{{e4{{e4}{e4}}e4}{e4}}
graph{St5{St5{St1}{St5{St1}St1}St1}}
graph{{<><><><><><>}<><>{<><><><><><>}<><><>}
graph{{s}s}
graph{{SUq}SUh{{SUq}SUf{}SUq}SUq}
graph{{{G_ G_}G_{G_ G_}G_}}
<?xml version="1.0" encoding="UTF-8"?>
<gexf xmlns="http://www.gexf.net/1.2draft"
xmlns:viz="http://www.gexf.net/1.2draft/viz"
```

```
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.gexf.net/1.2draft
                http://www.gexf.net/1.2draft/gexf.xsd"
version="1.2">
  <meta lastmodifieddate="2009-10-01">
    <creator>Gephi.org</creator>
    <description>A hierarchy file</description>
  </meta>
  <graph mode="static" defaultedgetype="directed">
    <nodes>
      <node id="a" label="Kevin Bacon">
        <nodes>
          <node id="b" label="God">
            <nodes>
              <node id="c" label="human1"/>
              <node id="d" label="human2"/>
              <node id="i" label="human3"/>
            </nodes>
          </node>
          <node id="e" label="Me">
            <nodes>
              <node id="f" label="frog1"/>
              <node id="g" label="frog2"/>

            <node id="h" label="frog3"/>
            </nodes>
          </node>
          <node id="j" label="You" />
        </nodes>
      </node>
    </nodes>
    <edges>
        <edge id="0" source="b" target="e" />
        <edge id="1" source="c" target="d" />
        <edge id="2" source="c" target="i" />
        <edge id="3" source="g" target="b" />
        <edge id="4" source="f" target="a" />
        <edge id="5" source="f" target="g" />
        <edge id="6" source="f" target="h" />
        <edge id="7" source="g" target="h" />
        <edge id="8" source="a" target="j" />
    </edges>
  </graph>
</gexf>
graph{{{{{{DiD{DiD{DiD}}}}DiD{{{{{{DiD{DiD{DiD}}}}DiD{DiD}}}}}}}}}
graph{{{noe not}}}
graph{subF{subF}}
```

```
graph{{Sub}Sub{Sub}SuG}
graph{sue nodb}
graph{{{Gra_}Gra_}Gra_}
graph{{{{Sh{{{{Sb}}}So}}}}So}
graph{{GR_}}
package gl

import (
 "testing"
)

func TestGoString(t *testing.T) {
 tests := [][2]string{
  {"Hello\x00", "Hello"},
  {"\x00", ""},
 }
 for _, test := range tests {
  got := GoString([]byte(test[0]))
  if exp := test[1]; exp != got {
   t.Errorf("expected %q got %q", exp, got)
  }
 }
}
graph{diG{{diG{diG}diG}}}
graph{{{{st{{st}}st}st}}st=st}
graph{{{gra_{}gra_{}gra_}{gra_{}gra_{gra_}gra_}gra_}gra_}
//** github.com/icheckteam/ichain@v0.22.4 **//

{{Types "Apache-2.0"}}

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graph{Strica{Strica-9Strica-9Strica-9Strica-9Strica}}
graph{{stria}stria{stria}}
Graph{{SubD{SubF}}}
// SPDX-License-Identifier: Unlicense OR MIT

package pointer

import (
 "encoding/binary"
```

```
 "image"
 "strings"
 "time"

 "gioui.org/f32"
 "gioui.org/internal/opconst"
 "gioui.org/io/event"
 "gioui.org/io/key"
 "gioui.org/op"
)

// Event is a pointer event.
type Event struct {
 Type   Type
 Source Source
 // PointerID is the id for the pointer and can be used
 // to track a particular pointer from Press to
 // Release or Cancel.
 PointerID ID
 // Priority is the priority of the receiving handler
 // for this event.
 Priority Priority
 // Time is when the event was received. The
 // timestamp is relative to an undefined base.
 Time time.Duration
 // Buttons are the set of pressed mouse buttons for this event.
 Buttons Buttons
 // Hit is set when the event was within the registered
 // area for the handler. Hit can be false when a pointer
 // was pressed within the hit area, and then dragged
 // outside it.
 Hit bool
 // Position is the position of the event, relative to
 // the current transformation,
 as set by op.TransformOp.
 Position f32.Point
 // Scroll is the scroll amount, if any.
 Scroll f32.Point
 // Modifiers is the set of active modifiers when
 // the mouse button was pressed.
 Modifiers key.Modifiers
}

// AreaOp updates the hit area to the intersection of the current
// hit area and the area. The area is transformed before applying
// it.
type AreaOp struct {
 kind areaKind
```

```
 rect image.Rectangle
}

// InputOp declares an input handler ready for pointer
// events.
type InputOp struct {
 Key event.Key
 // Grab, if set, request that the handler get
 // Grabbed priority.
 Grab bool
}

// PassOp sets the pass-through mode.
type PassOp struct {
 Pass bool
}

type ID uint16

// Type of an Event.
type Type uint8

// Priority of an Event.
type Priority uint8

// Source of an Event.
type Source uint8

// Buttons is a set of mouse buttons
type Buttons uint8

// Must match app/internal/input.areaKind
type areaKind uint8

const (
 // A Cancel event is generated when the
 current gesture is
 // interrupted by other handlers or the system.
 Cancel Type = iota
 // Press of a pointer.
 Press
 // Release of a pointer.
 Release
 // Move of a pointer.
 Move
)

const (
```

```
 // Mouse generated event.
 Mouse Source = iota
 // Touch generated event.
 Touch
)

const (
 // Shared priority is for handlers that
 // are part of a matching set larger than 1.
 Shared Priority = iota
 // Grabbed is used for matching sets of size 1.
 Grabbed
)

const (
 ButtonLeft Buttons = 1 << iota
 ButtonRight
 ButtonMiddle
)

const (
 areaRect areaKind = iota
 areaEllipse
)

// Rect constructs a rectangular hit area.
func Rect(size image.Rectangle) AreaOp {
 return AreaOp{
  kind: areaRect,
  rect: size,
 }
}

// Ellipse constructs an ellipsoid hit area.
func Ellipse(size image.Rectangle) AreaOp {
 return AreaOp{
  kind: areaEllipse,
  rect: size,
 }
}

func (op AreaOp) Add(o *op.Ops) {
 data := o.Write(opconst.TypeAreaLen)
 data[0] = byte(opconst.TypeArea)
 data[1] = byte(op.kind)
 bo :=
 binary.LittleEndian
 bo.PutUint32(data[2:], uint32(op.rect.Min.X))
```

```
 bo.PutUint32(data[6:], uint32(op.rect.Min.Y))
 bo.PutUint32(data[10:], uint32(op.rect.Max.X))
 bo.PutUint32(data[14:], uint32(op.rect.Max.Y))
}

func (h InputOp) Add(o *op.Ops) {
 data := o.Write(opconst.TypePointerInputLen, h.Key)
 data[0] = byte(opconst.TypePointerInput)
 if h.Grab {
  data[1] = 1
 }
}

func (op PassOp) Add(o *op.Ops) {
 data := o.Write(opconst.TypePassLen)
 data[0] = byte(opconst.TypePass)
 if op.Pass {
  data[1] = 1
 }
}

func (t Type) String() string {
 switch t {
 case Press:
  return "Press"
 case Release:
  return "Release"
 case Cancel:
  return "Cancel"
 case Move:
  return "Move"
 default:
  panic("unknown Type")
 }
}

func (p Priority) String() string {
 switch p {
 case Shared:
  return "Shared"
 case Grabbed:
  return "Grabbed"
 default:
  panic("unknown priority")
 }
}

func (s Source) String() string {
```

```
 switch s {
 case Mouse:
  return "Mouse"
 case Touch:
  return "Touch"
 default:
  panic("unknown
 source")
 }
}

// Contain reports whether the set b contains
// all of the buttons.
func (b Buttons) Contain(buttons Buttons) bool {
 return b&buttons == buttons
}

func (b Buttons) String() string {
 var strs []string
 if b.Contain(ButtonLeft) {
  strs = append(strs, "ButtonLeft")
 }
 if b.Contain(ButtonRight) {
  strs = append(strs, "ButtonRight")
 }
 if b.Contain(ButtonMiddle) {
  strs = append(strs, "ButtonMiddle")
 }
 return strings.Join(strs, "|")
}

func (Event) ImplementsEvent() {}
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// license that can be found in the LICENSE file.

package distuv

import (
 "math"
 "sort"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/floats"
)
```

```
func TestBetaProb(t *testing.T) {
 // Values a comparison with scipy
 for _, test := range []struct {
  x, alpha, beta, want float64
 }{
  {0.1, 2, 0.5, 0.079056941504209499},
  {0.5, 1, 5.1, 0.29740426605235754},
  {0.1, 0.5, 0.5, 1.0610329539459691},
  {1, 0.5, 0.5, math.Inf(1)},
  {-1, 0.5, 0.5, 0},
 } {
  pdf := Beta{Alpha: test.alpha, Beta: test.beta}.Prob(test.x)
  if !floats.EqualWithinAbsOrRel(pdf, test.want, 1e-10, 1e-10) {
   t.Errorf("Pdf mismatch. Got %v, want %v", pdf, test.want)
  }
 }
}

func TestBetaRand(t *testing.T) {
 src := rand.New(rand.NewSource(1))
 for i, b := range []Beta{
  {Alpha: 0.5, Beta: 0.5, Src: src},
  {Alpha: 5, Beta: 1, Src: src},
  {Alpha: 2, Beta: 2, Src: src},
  {Alpha: 2, Beta:
 5, Src: src},
 } {
  testBeta(t, b, i)
 }
}

func testBeta(t *testing.T, b Beta, i int) {
 const (
  tol  = 1e-2
  n    = 5e4
  bins = 10
 )
 x := make([]float64, n)
 generateSamples(x, b)
 sort.Float64s(x)

 testRandLogProbContinuous(t, i, 0, x, b, tol, bins)
 checkMean(t, i, x, b, tol)
 checkVarAndStd(t, i, x, b, tol)
 checkExKurtosis(t, i, x, b, 5e-2)
 checkEntropy(t, i, x, b, 5e-3)
 checkProbContinuous(t, i, x, b, 1e-3)
 checkQuantileCDFSurvival(t, i, x, b, tol)
```

```
 checkProbQuantContinuous(t, i, x, b, tol)
}
graph{Dir{Dir{Dir}Dir}Dir{Dir{Dir{Dir}Dir}}}
graph{{Edge_}}
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// license that can be found in the LICENSE file.

package gonum

import (
 "math"

 "gonum.org/v1/gonum/lapack"
)

// Dlascl multiplies an mn matrix by the scalar cto/cfrom.
//
// cfrom must not be zero, and cto and cfrom must not be NaN, otherwise Dlascl
// will panic.
//
// Dlascl is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dlascl(kind lapack.MatrixType, kl, ku int, cfrom, cto float64, m, n int, a []float64, lda
int) {
 switch kind {
 default:
  panic(badMatrixType)
 case 'H', 'B', 'Q', 'Z': // See dlascl.f.
  panic("not implemented")
 case lapack.General, lapack.UpperTri, lapack.LowerTri:
  if lda < max(1, n) {
   panic(badLdA)
  }
 }
 switch {
 case cfrom == 0:
  panic(zeroCFrom)
 case math.IsNaN(cfrom):
  panic(nanCFrom)
 case math.IsNaN(cto):
  panic(nanCTo)
 case m < 0:
  panic(mLT0)
 case n < 0:
  panic(nLT0)
 }

 if n == 0
```

```
|| m == 0 {
 return
}

switch kind {
case lapack.General, lapack.UpperTri, lapack.LowerTri:
 if len(a) < (m-1)*lda+n {
  panic(shortA)
 }
}

smlnum := dlamchS
bignum := 1 / smlnum
cfromc := cfrom
ctoc := cto
cfrom1 := cfromc * smlnum
for {
 var done bool
 var mul, ctol float64
 if cfrom1 == cfromc {
  // cfromc is inf.
  mul = ctoc / cfromc
  done = true
  ctol = ctoc
 } else {
  ctol = ctoc / bignum
  if ctol == ctoc {
   // ctoc is either 0 or inf.
   mul = ctoc
   done = true
   cfromc = 1
  } else if math.Abs(cfrom1) > math.Abs(ctoc) && ctoc != 0 {
   mul = smlnum
   done = false
   cfromc = cfrom1
  } else if math.Abs(ctol) > math.Abs(cfromc) {
   mul = bignum
   done = false
   ctoc = ctol
  } else {
   mul = ctoc / cfromc
   done = true
  }
 }
 switch kind {
 case lapack.General:
  for i := 0; i < m; i++ {
   for j := 0; j < n; j++ {
```

```
     a[i*lda+j] = a[i*lda+j] * mul
    }
   }
  case lapack.UpperTri:
   for i := 0; i < m; i++ {
    for
 j := i; j < n; j++ {
     a[i*lda+j] = a[i*lda+j] * mul
    }
   }
  case lapack.LowerTri:
   for i := 0; i < m; i++ {
    for j := 0; j <= min(i, n-1); j++ {
     a[i*lda+j] = a[i*lda+j] * mul
    }
   }
  }
  if done {
   break
  }
 }
}
graph{{Edg_}Edg_{Edg_}{Edg_{Edg_}Edg_}}
graph{Subr{Subh{Subr{Subr}{Subr}}Subr}}
digraph{subgra}
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package mat

import (
 "math"
 "testing"

 "gonum.org/v1/gonum/blas/blas64"
 "gonum.org/v1/gonum/blas/testblas"
)

func TestInner(t *testing.T) {
 for i, test := range []struct {
  x []float64
  y []float64
  m [][]float64
 }{
  {
   x: []float64{5},
   y: []float64{10},
```

```
 m: [][]float64{{2}},
},
{
 x: []float64{5, 6, 1},
 y: []float64{10},
 m: [][]float64{{2}, {-3}, {5}},
},
{
 x: []float64{5},
 y: []float64{10, 15},
 m: [][]float64{{2, -3}},
},
{
 x: []float64{1, 5},
 y: []float64{10, 15},
 m: [][]float64{
  {2, -3},
  {4, -1},
 },
},
{
 x: []float64{2, 3, 9},
 y: []float64{8, 9},
 m: [][]float64{
  {2, 3},
  {4, 5},
  {6, 7},
 },
},
{
 x: []float64{2, 3},
 y: []float64{8, 9, 9},
 m: [][]float64{
  {2, 3, 6},
  {4, 5, 7},
 },
},
} {
 for _, inc := range
[]struct{ x, y int }{
  {1, 1},
  {1, 2},
  {2, 1},
  {2, 2},
 } {
  x := NewDense(1, len(test.x), test.x)
  m := NewDense(flatten(test.m))
  mWant := NewDense(flatten(test.m))
```

```
  y := NewDense(len(test.y), 1, test.y)

  var tmp, cell Dense
  tmp.Mul(mWant, y)
  cell.Mul(x, &tmp)

  rm, cm := cell.Dims()
  if rm != 1 {
   t.Errorf("Test %d result doesn't have 1 row", i)
  }
  if cm != 1 {
   t.Errorf("Test %d result doesn't have 1 column", i)
  }

  want := cell.At(0, 0)
  got := Inner(makeVecDenseInc(inc.x, test.x), m, makeVecDenseInc(inc.y, test.y))
  if got != want {
   t.Errorf("Test %v: want %v, got %v", i, want, got)
  }
 }
}
}

func TestInnerSym(t *testing.T) {
 for _, inc := range []struct{ x, y int }{
  {1, 1},
  {1, 2},
  {2, 1},
  {2, 2},
 } {
  n := 10
  xData := make([]float64, n)
  yData := make([]float64, n)
  data := make([]float64, n*n)
  for i := 0; i < n; i++ {
   xData[i] = float64(i)
   yData[i] = float64(i)
   for j := i; j < n; j++ {
    data[i*n+j]
= float64(i*n + j)
    data[j*n+i] = data[i*n+j]
   }
  }
  x := makeVecDenseInc(inc.x, xData)
  y := makeVecDenseInc(inc.y, yData)
  m := NewDense(n, n, data)
  ans := Inner(x, m, y)
  sym := NewSymDense(n, data)
```

```
 // Poison the lower half of data to ensure it is not used.
 for i := 1; i < n; i++ {
  for j := 0; j < i; j++ {
   data[i*n+j] = math.NaN()
  }
 }

 if math.Abs(Inner(x, sym, y)-ans) > 1e-14 {
  t.Error("inner different symmetric and dense")
 }
}
}

func makeVecDenseInc(inc int, f []float64) *VecDense {
 v := &VecDense{
  mat: blas64.Vector{
   N:    len(f),
   Inc:  inc,
   Data: make([]float64, (len(f)-1)*inc+1),
  },
 }

 // Contaminate backing data in all positions...
 const base = 100
 for i := range v.mat.Data {
  v.mat.Data[i] = float64(i + base)
 }

 // then write real elements.
 for i := range f {
  v.mat.Data[i*inc] = f[i]
 }
 return v
}

func benchmarkInner(b *testing.B, m, n int) {
 x := NewVecDense(m, nil)
 randomSlice(x.mat.Data)
 y :=
 NewVecDense(n, nil)
 randomSlice(y.mat.Data)
 data := make([]float64, m*n)
 randomSlice(data)
 mat := &Dense{mat: blas64.General{Rows: m, Cols: n, Stride: n, Data: data}, capRows: m, capCols: n}
 b.ResetTimer()
 for i := 0; i < b.N; i++ {
  Inner(x, mat, y)
 }
```

```
}

func BenchmarkInnerSmSm(b *testing.B) {
 benchmarkInner(b, testblas.SmallMat, testblas.SmallMat)
}

func BenchmarkInnerMedMed(b *testing.B) {
 benchmarkInner(b, testblas.MediumMat, testblas.MediumMat)
}

func BenchmarkInnerLgLg(b *testing.B) {
 benchmarkInner(b, testblas.LargeMat, testblas.LargeMat)
}

func BenchmarkInnerLgSm(b *testing.B) {
 benchmarkInner(b, testblas.LargeMat, testblas.SmallMat)
}
graph{dS{dG}{dS{dG}{dS}dG}{dS{dG}}}
graph{{stri_}}
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package gonum

import (
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/blas"
 "gonum.org/v1/gonum/floats"
)

func TestDgemmParallel(t *testing.T) {
 rnd := rand.New(rand.NewSource(1))
```

```
for i, test := range []struct {
 m     int
 n     int
 k     int
 alpha float64
 tA    blas.Transpose
 tB    blas.Transpose
}{
 {
  m:     3,
  n:     4,
  k:     2,
  alpha: 2.5,
  tA:    blas.NoTrans,
  tB:    blas.NoTrans,
 },
 {
  m:     blockSize*2 + 5,
  n:     3,
  k:     2,
  alpha: 2.5,
  tA:    blas.NoTrans,
  tB:    blas.NoTrans,
 },
 {
  m:     3,
  n:     blockSize * 2,
  k:     2,
  alpha: 2.5,
  tA:    blas.NoTrans,
  tB:    blas.NoTrans,
 },
 {
  m:     2,
  n:     3,
  k:     blockSize*3 - 2,
  alpha: 2.5,
  tA:    blas.NoTrans,
  tB:    blas.NoTrans,
 },
 {
  m:     blockSize
* minParBlock,
  n:     3,
  k:     2,
  alpha: 2.5,
  tA:    blas.NoTrans,
  tB:    blas.NoTrans,
```

```
},
{
 m:     3,
 n:     blockSize * minParBlock,
 k:     2,
 alpha: 2.5,
 tA:    blas.NoTrans,
 tB:    blas.NoTrans,
},
{
 m:     2,
 n:     3,
 k:     blockSize * minParBlock,
 alpha: 2.5,
 tA:    blas.NoTrans,
 tB:    blas.NoTrans,
},
{
 m:     blockSize*minParBlock + 1,
 n:     blockSize * minParBlock,
 k:     3,
 alpha: 2.5,
 tA:    blas.NoTrans,
 tB:    blas.NoTrans,
},
{
 m:     3,
 n:     blockSize*minParBlock + 2,
 k:     blockSize * 3,
 alpha: 2.5,
 tA:    blas.NoTrans,
 tB:    blas.NoTrans,
},
{
 m:     blockSize * minParBlock,
 n:     3,
 k:     blockSize * minParBlock,
 alpha: 2.5,
 tA:    blas.NoTrans,
 tB:    blas.NoTrans,
},
{
 m:     blockSize * minParBlock,
 n:     blockSize * minParBlock,
 k:     blockSize * 3,
 alpha: 2.5,
 tA:    blas.NoTrans,
 tB:    blas.NoTrans,
```

```
 },
 {
  m:
    blockSize + blockSize/2,
  n:     blockSize + blockSize/2,
  k:     blockSize + blockSize/2,
  alpha: 2.5,
  tA:    blas.NoTrans,
  tB:    blas.NoTrans,
 },
} {
 testMatchParallelSerial(t, rnd, i, blas.NoTrans, blas.NoTrans, test.m, test.n, test.k, test.alpha)
 testMatchParallelSerial(t, rnd, i, blas.Trans, blas.NoTrans, test.m, test.n, test.k, test.alpha)
 testMatchParallelSerial(t, rnd, i, blas.NoTrans, blas.Trans, test.m, test.n, test.k, test.alpha)
 testMatchParallelSerial(t, rnd, i, blas.Trans, blas.Trans, test.m, test.n, test.k, test.alpha)
 }
}

func testMatchParallelSerial(t *testing.T, rnd *rand.Rand, i int, tA, tB blas.Transpose, m, n, k int, alpha float64) {
 var (
  rowA, colA int
  rowB, colB int
 )
 if tA == blas.NoTrans {
  rowA = m
  colA = k
 } else {
  rowA = k
  colA = m
 }
 if tB == blas.NoTrans {
  rowB = k
  colB = n
 } else {
  rowB = n
  colB = k
 }

 lda := colA
 a := randmat(rowA, colA, lda, rnd)
 aCopy := make([]float64, len(a))
 copy(aCopy,
 a)

 ldb := colB
 b := randmat(rowB, colB, ldb, rnd)
 bCopy := make([]float64, len(b))
 copy(bCopy, b)
```

```
 ldc := n
 c := randmat(m, n, ldc, rnd)
 want := make([]float64, len(c))
 copy(want, c)

 dgemmSerial(tA == blas.Trans, tB == blas.Trans, m, n, k, a, lda, b, ldb, want, ldc, alpha)
 dgemmParallel(tA == blas.Trans, tB == blas.Trans, m, n, k, a, lda, b, ldb, c, ldc, alpha)

 if !floats.Equal(a, aCopy) {
  t.Errorf("Case %v: a changed during call to dgemmParallel", i)
 }
 if !floats.Equal(b, bCopy) {
  t.Errorf("Case %v: b changed during call to dgemmParallel", i)
 }
 if !floats.EqualApprox(c, want, 1e-12) {
  t.Errorf("Case %v: answer not equal parallel and serial", i)
 }
}

func randmat(r, c, stride int, rnd *rand.Rand) []float64 {
 data := make([]float64, r*stride+c)
 for i := range data {
  data[i] = rnd.NormFloat64()
 }
 return data
}
graph{{{{GRA_}GRA_}GRA_{{GRA_}GRA_}GRA_}}
graph{{edg}edg}
graph{{{{subgr}subgr}}subgr}
graph{{{{DiGg{{DiGg}}}}DiGa{{DiGg}}}}
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// license that can be found in the LICENSE file.

package stat_test

import (
 "fmt"

 "gonum.org/v1/gonum/mat"
 "gonum.org/v1/gonum/stat"
)

func ExamplePC() {
 // iris is a truncated sample of the Fisher's Iris dataset.
 n := 10
 d := 4
```

```
iris := mat.NewDense(n, d, []float64{
 5.1, 3.5, 1.4, 0.2,
 4.9, 3.0, 1.4, 0.2,
 4.7, 3.2, 1.3, 0.2,
 4.6, 3.1, 1.5, 0.2,
 5.0, 3.6, 1.4, 0.2,
 5.4, 3.9, 1.7, 0.4,
 4.6, 3.4, 1.4, 0.3,
 5.0, 3.4, 1.5, 0.2,
 4.4, 2.9, 1.4, 0.2,
 4.9, 3.1, 1.5, 0.1,
})

// Calculate the principal component direction vectors
// and variances.
var pc stat.PC
ok := pc.PrincipalComponents(iris, nil)
if !ok {
 return
}
fmt.Printf("variances = %.4f\n\n", pc.VarsTo(nil))

// Project the data onto the first 2 principal components.
k := 2
var proj mat.Dense
var vec mat.Dense
pc.VectorsTo(&vec)
proj.Mul(iris, vec.Slice(0, d, 0, k))

fmt.Printf("proj
= %.4f", mat.Formatted(&proj, mat.Prefix("       ")))

// Output:
// variances = [0.1666 0.0207 0.0079 0.0019]
//
// proj = -6.1686   1.4659
//        -5.6767   1.6459
//        -5.6699   1.3642
//        -5.5643   1.3816
//        -6.1734   1.3309
//        -6.7278   1.4021
//        -5.7743   1.1498
//        -6.0466   1.4714
//        -5.2709   1.3570
//        -5.7533   1.6207
}
graph{{n_{n_}{n_}{n_}n_}{n_}}
```

graph{{{{{{{{{{{Digr{Digr}}Digr{Digr{Digr{Digr}}{{Digr{Digr}}Digr{Digr{Digr{Digr}}Digr}}Digr{}Digr{
Digr{Digr}{Digr}}Digr}}Digr{}Digr{Digr{Digr}{Digr}}Digr{Digr{Digr}Digr}}Digr}}Digr}}Digr{Digr{Digr}}
}}}}}
graph{Nn{Nn}Nn{Nn}}
graph{{{{{e{e}e}}e}e}}
graph n1{{n1}n1{n1}}
graph{{Su}Su{{Su}Su}}
digraph {Edn""Edn""Eds}
//** github.com/jcvernaleo/3@v3.9.2+incompatible **//

{{Types "GPL-3.0-or-later CC-BY-3.0 Freetype"}}

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Copyright (C) 2012-2014 Arne Vansteenkiste.
Contributions by Ahmad Syukri, Colin Jermain, Jonathan Leliaert, Mykola Dvornik.

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graph{subGraA{{subGraA{subGraB}{subGraA{subGraB}}subGraB}}}
graph{{NOd{NOr{{{NOr}{NOr}NOd{NOr}}}}}}
graph{{Stricy}}
graph{str1{{{{{{{{{{str9}}str1}}}}}}{{{{{{{{{{str9}}str1}}}}}}}}}}}
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package mds

import (
 "math"

```
 "gonum.org/v1/gonum/blas/blas64"
 "gonum.org/v1/gonum/mat"
)

// TorgersonScaling converts a dissimilarity matrix to a matrix containing
// Euclidean coordinates. TorgersonScaling places the coordinates in dst and
// returns it and the number of positive Eigenvalues if successful.
// If the scaling is not successful, dst will be empty upon return.
// When the scaling is successful, dst will be resized to k columns wide.
// Eigenvalues will be copied into eigdst and returned as eig if it is provided.
//
// TorgersonScaling will panic if dst is not empty.
func TorgersonScaling(dst *mat.Dense, eigdst []float64, dis mat.Symmetric) (k int, eig []float64) {
 // https://doi.org/10.1007/0-387-28981-X_12

 n := dis.Symmetric()
 if dst.IsEmpty() {
  dst.ReuseAs(n, n)
 } else {
  panic("mds: receiver matrix
 not empty")
 }

 b := mat.NewSymDense(n, nil)
 for i := 0; i < n; i++ {
  for j := i; j < n; j++ {
   v := dis.At(i, j)
   v *= v
   b.SetSym(i, j, v)
  }
 }
 c := mat.NewSymDense(n, nil)
 s := -1 / float64(n)
 for i := 0; i < n; i++ {
  c.SetSym(i, i, 1+s)
  for j := i + 1; j < n; j++ {
   c.SetSym(i, j, s)
  }
 }
 dst.Product(c, b, c)
 for i := 0; i < n; i++ {
  for j := i; j < n; j++ {
   b.SetSym(i, j, -0.5*dst.At(i, j))
  }
 }

 var ed mat.EigenSym
```

```
 ok := ed.Factorize(b, true)
 if !ok {
  return 0, eigdst
 }
 ed.VectorsTo(dst)
 vals := ed.Values(nil)
 reverse(vals, dst.RawMatrix())
 copy(eigdst, vals)

 for i, v := range vals {
  if v < 0 {
   vals[i] = 0
   continue
  }
  k = i + 1
  vals[i] = math.Sqrt(v)
 }

 var tmp mat.Dense
 tmp.Mul(dst, mat.NewDiagonalRect(n, k, vals[:k]))
 *dst = *dst.Slice(0, n, 0, k).(*mat.Dense)
 dst.Copy(&tmp)

 return k, eigdst
}

func reverse(values []float64, vectors blas64.General) {
 for i, j := 0, len(values)-1; i < j; i, j = i+1, j-1 {
  values[i],
 values[j] = values[j], values[i]
  blas64.Swap(blas64.Vector{N: vectors.Rows, Inc: vectors.Stride, Data: vectors.Data[i:]},
   blas64.Vector{N: vectors.Rows, Inc: vectors.Stride, Data: vectors.Data[j:]})
 }
}
graph{{{NU}NU}}
digraph{{digrapn{digrapn}digrapn}}
graph{{{DiGr2}DiGr1}}
graph{{DIR}DIR{DIR}{DIR}DIR}
graph{{5{{55555}}}}
digraph {e""->A a->m a->E t->O r->V r->Q p->B m->R l->C c->C W->X W->D V->W T->U Q->T Q->H Q->A O->K L->U
K->L K->J K->E J->I R->B P->F H->R H->P U->H G->U E->G C->Z C->D S->D B->N B->D B->S M->B A->M N->Y}
graph{{{{Subgi{Subgc}}}Subgi{Subgc}}}
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package distuv
```

```
import (
 "sort"
 "testing"

 "golang.org/x/exp/rand"

 "gonum.org/v1/gonum/floats"
)

func TestFProb(t *testing.T) {
 for _, test := range []struct {
  x, d1, d2, want float64
 }{
  // Values calculated with scipy.stats.f
  {0.0001, 4, 6, 0.00053315559110558126},
  {0.1, 1, 1, 0.91507658371794609},
  {0.5, 11, 7, 0.66644660411410883},
  {0.9, 20, 15, 0.88293424959522437},
  {1, 1, 1, 0.15915494309189535},
  {2, 15, 12, 0.16611971273429088},
  {5, 4, 8, 0.013599775603702537},
  {10, 12, 9, 0.00032922887567957289},
  {100, 7, 7, 6.08037637806889e-08},
  {1000, 2, 1, 1.1171959870312232e-05},
 } {
  pdf := F{test.d1, test.d2, nil}.Prob(test.x)
  if !floats.EqualWithinAbsOrRel(pdf, test.want, 1e-10, 1e-10) {
   t.Errorf("Prob mismatch, x = %v, d1 = %v, d2 = %v. Got %v, want %v", test.x, test.d1, test.d2, pdf, test.want)
  }
 }
}

func
 TestFCDF(t *testing.T) {
 for _, test := range []struct {
  x, d1, d2, want float64
 }{
  // Values calculated with scipy.stats.f
  {0.0001, 4, 6, 2.6660741629519019e-08},
  {0.1, 1, 1, 0.19498222904213672},
  {0.5, 11, 7, 0.14625028471336987},
  {0.9, 20, 15, 0.40567939897287852},
  {1, 1, 1, 0.50000000000000011},
  {2, 15, 12, 0.8839384428956264},
  {5, 4, 8, 0.97429642410900219},
  {10, 12, 9, 0.99915733385467187},
  {100, 7, 7, 0.99999823560259171},
  {1000, 2, 1, 0.97764490829950534},
```

```
 } {
  cdf := F{test.d1, test.d2, nil}.CDF(test.x)
  if !floats.EqualWithinAbsOrRel(cdf, test.want, 1e-10, 1e-10) {
   t.Errorf("CDF mismatch, x = %v, d1 = %v, d2 = %v. Got %v, want %v", test.x, test.d1, test.d2, cdf, test.want)
  }
 }
}

func TestF(t *testing.T) {
 src := rand.New(rand.NewSource(1))
 for i, b := range []F{
  {13, 16, src},
  {42, 31, src},
  {77, 92, src},
 } {
  testF(t, b, i)
 }
}

func testF(t *testing.T, f F, i int) {
 const (
  tol  = 1e-2
  n    = 1e6
  bins
 = 50
 )
 x := make([]float64, n)
 generateSamples(x, f)
 sort.Float64s(x)

 testRandLogProbContinuous(t, i, 0, x, f, tol, bins)
 checkProbContinuous(t, i, x, f, 1e-3)
 checkMean(t, i, x, f, tol)
 checkVarAndStd(t, i, x, f, tol)
 checkExKurtosis(t, i, x, f, 1e-1)
 checkSkewness(t, i, x, f, 5e-2)
 checkQuantileCDFSurvival(t, i, x, f, 5e-3)
}
graph{nod{nod}}
graph{{{SUBGRAP0{SUBGRAP0}{SUBGRAP0}{}}{{SUBGRAP0}{SUBGRAP0}{SUBGRAP0}}}}
graph{{{STR6{STR6}}STR6{STR6}}}
Graph{SUBU{SUBS{{SUBU{SUBS{SUBI}}}}}}
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package mat
```

```
import (
 "testing"

 "golang.org/x/exp/rand"
)

func TestDenseOverlaps(t *testing.T) {
 type view struct {
  i, j, r, c int
  *Dense
 }

 rnd := rand.New(rand.NewSource(1))

 for r := 1; r < 20; r++ {
  for c := 1; c < 20; c++ {
   m := NewDense(r, c, nil)
   panicked, message := panics(func() { m.checkOverlap(m.RawMatrix()) })
   if !panicked {
    t.Error("expected matrix overlap with self")
   }
   if message != regionIdentity {
    t.Errorf("unexpected panic message for self overlap: got: %q want: %q", message, regionIdentity)
   }

   for i := 0; i < 1000; i++ {
    var views [2]view
    for k := range views {
     if r > 1 {
      views[k].i = rnd.Intn(r - 1)
      views[k].r = rnd.Intn(r-views[k].i-1) + 1
     } else {
      views[k].r = 1
     }
     if c > 1 {
      views[k].j = rnd.Intn(c - 1)
      views[k].c
 = rnd.Intn(c-views[k].j-1) + 1
     } else {
      views[k].c = 1
     }
     views[k].Dense = m.Slice(views[k].i, views[k].i+views[k].r, views[k].j, views[k].j+views[k].c).(*Dense)

     panicked, _ = panics(func() { m.checkOverlap(views[k].RawMatrix()) })
     if !panicked {
      t.Errorf("expected matrix (%d%d) overlap with view {rows=%d:%d, cols=%d:%d}",
       r, c, views[k].i, views[k].i+views[k].r, views[k].j, views[k].j+views[k].c)
     }
```

```
     panicked, _ = panics(func() { views[k].checkOverlap(m.RawMatrix()) })
     if !panicked {
      t.Errorf("expected view {rows=%d:%d, cols=%d:%d} overlap with parent (%d%d)",
       views[k].i, views[k].i+views[k].r, views[k].j, views[k].j+views[k].c, r, c)
     }
    }

    overlapRows := intervalsOverlap(
     interval{views[0].i, views[0].i + views[0].r},
     interval{views[1].i, views[1].i + views[1].r},
    )
    overlapCols := intervalsOverlap(
     interval{views[0].j, views[0].j + views[0].c},
     interval{views[1].j, views[1].j
 + views[1].c},
    )
    want := overlapRows && overlapCols

    for k, v := range views {
     w := views[1-k]
     got, _ := panics(func() { v.checkOverlap(w.RawMatrix()) })
     if got != want {
      t.Errorf("unexpected result for overlap test for {rows=%d:%d, cols=%d:%d} with {rows=%d:%d, cols=%d:%d}:
got: %t want: %t",
       v.i, v.i+v.r, v.j, v.j+v.c,
       w.i, w.i+w.r, w.j, w.j+w.c,
       got, want)
     }
    }
   }
  }
 }
}

type interval struct{ from, to int }

func intervalsOverlap(a, b interval) bool {
 return a.to > b.from && b.to > a.from
}

// See https://github.com/gonum/matrix/issues/359 for details.
func TestIssue359(t *testing.T) {
 for xi := 0; xi < 2; xi++ {
  for xj := 0; xj < 2; xj++ {
   for yi := 0; yi < 2; yi++ {
    for yj := 0; yj < 2; yj++ {
     a := NewDense(3, 3, []float64{
      1, 2, 3,
```

```
      4, 5, 6,
      7, 8, 9,
     })
     x := a.Slice(xi, xi+2, xj, xj+2).(*Dense)
     y := a.Slice(yi, yi+2, yj, yj+2).(*Dense)

     panicked, _ :=
 panics(func() { x.checkOverlap(y.mat) })
     if !panicked {
      t.Errorf("expected panic for aliased with offsets x(%d,%d) y(%d,%d):\nx:\n%v\ny:\n%v",
       xi, xj, yi, yj, Formatted(x), Formatted(y),
      )
     }
    }
   }
  }
 }
}
graph{<<>>}
graph{Subgr}
graph{sub{sub}{sub}}
digraph {
 A -> B -> C
 D -> E [color=red minlen=2]
}
graph{Subgrat{{{Subgray}}}}
graph{{{Grapu}Grapn{Grapu}Grapu}{Grapu}Grapn{Grapn{Grapu}}Grapu}
graph{""[diGra0=""]}
graph{<<===>>}
graph{EdO""EdP}
graph{{SUBGRAPH8}{SUBGRAPH8}}
image: debian/testing
repositories:
experimental: http://deb.debian.org/debian experimental main
packages:
- curl
- libwayland-dev
- libx11-dev
- libxkbcommon-dev
- libxkbcommon-x11-dev
- libgles2-mesa-dev
- libegl1-mesa-dev
- wine
- golang
- xvfb
- xdotool
- scrot
- sway
```

```
- grim
sources:
- https://git.sr.ht/~eliasnaur/gio
environment:
GOFLAGS: -mod=readonly
PATH: /home/build/bin:/usr/bin
tasks:
- install_gotip: |
    go get golang.org/dl/gotip
    /home/build/go/bin/gotip download
    mkdir /home/build/bin
    ln -s /home/build/go/bin/gotip /home/build/bin/go
- install_chrome: |
    curl -s https://dl.google.com/linux/linux_signing_key.pub | sudo apt-key add -
    sudo sh -c 'echo "deb [arch=amd64] http://dl.google.com/linux/chrome/deb/ stable main" >>
/etc/apt/sources.list.d/google.list'
    sudo apt update
    sudo apt install -y google-chrome-stable
- test_gio: |
    cd gio
    go test -race ./...
    GOOS=windows go test -exec=wine ./...
- test_example:
 |
    cd gio/example
    go test -race ./...
- test_cmd: |
    cd gio/cmd
    go test ./...
    go test -race ./...
- check_gofmt: |
    cd gio
    test -z "$(gofmt -s -l .)"
```

graph{stri_{stri_{stri_}}}
graph{{edd{eda{eda{edc}eda{edc}}}}}
graph{{Su}Su{{Su}Su{{Su}Su}}Su{}{{Su}Su}}
graph{{{{{{{{{SUBGRAD}}SUBGRAD}}SUBGRAL}}}}}
graph{{{digr}}}
graph{{{grap{}grap{{grap}}}}}
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graph{{Digrapd}Digrapd}
graph{<D><D>}
Graph{{gr4}gr7}
graph{DIGRAP{DIGRAP}}
---
name: Proposal
about: Propose a new package or significant addition of functionality

---
<!--
Please make sure your issue title matches the Go convention; a summary
of the problem, prefixed by "proposal:" and the primary affected package.

It may be worth discussing the proposal at the Gonum discussion list
before filing the proposal issue:

https://groups.google.com/forum/#!forum/gonum-dev
-->
Background

Proposal

Potential impact of proposal
<!-- Extent of change, amount of work to implement, who will do the work? etc. -->
graph{{SubGra{{{SubGra}{SubGra}}}SubGra{{SubGra}}}SubGra}
Graph{{{{subgrapg{subgrapg}}subgrapg}}}
graph{{{{{{DiGrapr{{DiGrapi}}}}}{{{DiGrapi{DiGrapi}DiGrapn}}{{{}}}}{{{DiGrapi}}}{{""}}}}}
graph{"a""e""e""n""n""n""n"{"""e""e""n""n""n""n""n"}"n""n"}
graph{SUBGp{SUBGh{SUBGp{SUBGp}}}}
graph{diGs{{diGs{diGt{diGt}}diGs}}}
graph{<e{\Z>}
graph{Subc{Suba}}
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package gonum

import "gonum.org/v1/gonum/blas"

// Dorgtr generates a real orthogonal matrix Q which is defined as the product
// of n-1 elementary reflectors of order n as returned by Dsytrd.
//
// The construction of Q depends on the value of uplo:

```
//  Q = H_{n-1} * ... * H_1 * H_0  if uplo == blas.Upper
//  Q = H_0 * H_1 * ... * H_{n-1}  if uplo == blas.Lower
// where H_i is constructed from the elementary reflectors as computed by Dsytrd.
// See the documentation for Dsytrd for more information.
//
// tau must have length at least n-1, and Dorgtr will panic otherwise.
//
// work is temporary storage, and lwork specifies the usable memory length. At
// minimum, lwork >= max(1,n-1), and Dorgtr will panic otherwise. The amount of blocking
// is limited by the usable length.
// If lwork == -1, instead of computing Dorgtr the
 optimal work length is stored
// into work[0].
//
// Dorgtr is an internal routine. It is exported for testing purposes.
func (impl Implementation) Dorgtr(uplo blas.Uplo, n int, a []float64, lda int, tau, work []float64, lwork int) {
 switch {
 case uplo != blas.Upper && uplo != blas.Lower:
  panic(badUplo)
 case n < 0:
  panic(nLT0)
 case lda < max(1, n):
  panic(badLdA)
 case lwork < max(1, n-1) && lwork != -1:
  panic(badLWork)
 case len(work) < max(1, lwork):
  panic(shortWork)
 }

 if n == 0 {
  work[0] = 1
  return
 }

 var nb int
 if uplo == blas.Upper {
  nb = impl.Ilaenv(1, "DORGQL", " ", n-1, n-1, n-1, -1)
 } else {
  nb = impl.Ilaenv(1, "DORGQR", " ", n-1, n-1, n-1, -1)
 }
 lworkopt := max(1, n-1) * nb
 if lwork == -1 {
  work[0] = float64(lworkopt)
  return
 }

 switch {
 case len(a) < (n-1)*lda+n:
```

```
 panic(shortA)
case len(tau) < n-1:
 panic(shortTau)
}

if uplo == blas.Upper {
 // Q was determined by a call to Dsytrd with uplo == blas.Upper.
 // Shift the vectors which
define the elementary reflectors one column
 // to the left, and set the last row and column of Q to those of the unit
 // matrix.
 for j := 0; j < n-1; j++ {
  for i := 0; i < j; i++ {
   a[i*lda+j] = a[i*lda+j+1]
  }
  a[(n-1)*lda+j] = 0
 }
 for i := 0; i < n-1; i++ {
  a[i*lda+n-1] = 0
 }
 a[(n-1)*lda+n-1] = 1

 // Generate Q[0:n-1, 0:n-1].
 impl.Dorgql(n-1, n-1, n-1, a, lda, tau, work, lwork)
} else {
 // Q was determined by a call to Dsytrd with uplo == blas.Upper.
 // Shift the vectors which define the elementary reflectors one column
 // to the right, and set the first row and column of Q to those of the unit
 // matrix.
 for j := n - 1; j > 0; j-- {
  a[j] = 0
  for i := j + 1; i < n; i++ {
   a[i*lda+j] = a[i*lda+j-1]
  }
 }
 a[0] = 1
 for i := 1; i < n; i++ {
  a[i*lda] = 0
 }
 if n > 1 {
  // Generate Q[1:n, 1:n].
  impl.Dorgqr(n-1, n-1, n-1, a[lda+1:], lda, tau, work, lwork)
 }
}
work[0] = float64(lworkopt)
}
graph{SUBGRAP{{{{SUBGRAP{SUBGRAP}SUBGRAP}}SUBGRAP{SUBGRAP}SUBGRAP}}{SUBGRAP}
SUBGRAP}
```

```
Graph{{subgr_}}
graph{"\
\
\
\
8940354585647583007812 5\
\
\\\\"}
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package sampleuv

import "gonum.org/v1/gonum/stat/distuv"

func max(a, b int) int {
 if a < b {
  return b
 }
 return a
}

func ExampleMetropolisHastings_samplingRate() {
 // See Burnin example for a description of these quantities.
 n := 1000
 burnin := 300
 var initial float64
 target := distuv.Weibull{K: 5, Lambda: 0.5}
 proposal := ProposalDist{Sigma: 0.2}

 // Successive samples are correlated with one another through the
 // Markov Chain defined by the proposal distribution. One may use
 // a sampling rate to decrease the correlation in the samples for
 // an increase in computation cost. The rate parameter specifies
 // that for every accepted sample stored in `samples`, rate - 1 accepted
 // samples are not stored in `samples`.
 rate := 50

 mh := MetropolisHastings{
  Initial:  initial,
  Target:   target,
  Proposal:
 proposal,
  BurnIn:   burnin,
  Rate:     rate,
 }
```

```
 samples := make([]float64, n)
 mh.Sample(samples)
}
graph{SubGE{{SubGE{SubGZ}}}}
graph{dig}
graph{Gs{Gt}}
graph {{ed8}ed0}
graph{{E_{E_}}E_{E_}}
graph{{{gra{{gra}}gra{{gra{{gra}}gra}}}}}
// Code generated by "go generate gonum.org/v1/gonum/unit; DO NOT EDIT.

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// license that can be found in the LICENSE file.

package unit

import (
 "fmt"
 "testing"
)

func TestAngleFormat(t *testing.T) {
 for _, test := range []struct {
  value  Angle
  format string
  want   string
 }{
  {1.23456789, "%v", "1.23456789 rad"},
  {1.23456789, "%.1v", "1 rad"},
  {1.23456789, "%20.1v", "               1 rad"},
  {1.23456789, "%20v", "      1.23456789 rad"},
  {1.23456789, "%1v", "1.23456789 rad"},
  {1.23456789, "%#v", "unit.Angle(1.23456789)"},
  {1.23456789, "%s", "%!s(unit.Angle=1.23456789 rad)"},
 } {
  got := fmt.Sprintf(test.format, test.value)
  if got != test.want {
   t.Errorf("Format %q %v: got: %q want: %q", test.format, float64(test.value), got, test.want)
  }
 }
}
graph{"\
""\
""\
""\
""\
""\
```

```
"""\
"""\
"""\
"""\
"}
graph {{}--{}{}--{}}
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// license that can be found in the LICENSE file.

package distuv

import (
 "math"

 "golang.org/x/exp/rand"
)

// LogNormal represents a random variable whose log is normally distributed.
// The probability density function is given by
//  1/(x  2) exp(-(ln(x)-)^2)/(2^2))
type LogNormal struct {
 Mu    float64
 Sigma float64
 Src   rand.Source
}

// CDF computes the value of the cumulative density function at x.
func (l LogNormal) CDF(x float64) float64 {
 return 0.5 * math.Erfc(-(math.Log(x)-l.Mu)/(math.Sqrt2*l.Sigma))
}

// Entropy returns the differential entropy of the distribution.
func (l LogNormal) Entropy() float64 {
 return 0.5 + 0.5*math.Log(2*math.Pi*l.Sigma*l.Sigma) + l.Mu
}

// ExKurtosis returns the excess kurtosis of the distribution.
func (l LogNormal) ExKurtosis() float64 {
 s2 := l.Sigma * l.Sigma
 return math.Exp(4*s2) + 2*math.Exp(3*s2) + 3*math.Exp(2*s2)
 - 6
}

// LogProb computes the natural logarithm of the value of the probability density function at x.
func (l LogNormal) LogProb(x float64) float64 {
 if x < 0 {
  return math.Inf(-1)
```

```
 }
 logx := math.Log(x)
 normdiff := (logx - l.Mu) / l.Sigma
 return -0.5*normdiff*normdiff - logx - math.Log(l.Sigma) - logRoot2Pi
}

// Mean returns the mean of the probability distribution.
func (l LogNormal) Mean() float64 {
 return math.Exp(l.Mu + 0.5*l.Sigma*l.Sigma)
}

// Median returns the median of the probability distribution.
func (l LogNormal) Median() float64 {
 return math.Exp(l.Mu)
}

// Mode returns the mode of the probability distribution.
func (l LogNormal) Mode() float64 {
 return l.Mu
}

// NumParameters returns the number of parameters in the distribution.
func (LogNormal) NumParameters() int {
 return 2
}

// Prob computes the value of the probability density function at x.
func (l LogNormal) Prob(x float64) float64 {
 return math.Exp(l.LogProb(x))
}

// Quantile returns the inverse
 of the cumulative probability distribution.
func (l LogNormal) Quantile(p float64) float64 {
 if p < 0 || p > 1 {
  panic(badPercentile)
 }
 // Formula from http://www.math.uah.edu/stat/special/LogNormal.html.
 return math.Exp(l.Mu + l.Sigma*UnitNormal.Quantile(p))
}

// Rand returns a random sample drawn from the distribution.
func (l LogNormal) Rand() float64 {
 var rnd float64
 if l.Src == nil {
  rnd = rand.NormFloat64()
 } else {
  rnd = rand.New(l.Src).NormFloat64()
```

```
 }
 return math.Exp(rnd*l.Sigma + l.Mu)
}

// Skewness returns the skewness of the distribution.
func (l LogNormal) Skewness() float64 {
 s2 := l.Sigma * l.Sigma
 return (math.Exp(s2) + 2) * math.Sqrt(math.Exp(s2)-1)
}

// StdDev returns the standard deviation of the probability distribution.
func (l LogNormal) StdDev() float64 {
 return math.Sqrt(l.Variance())
}

// Survival returns the survival function (complementary CDF) at x.
func (l LogNormal) Survival(x float64) float64 {
 return 0.5 * (1 - math.Erf((math.Log(x)-l.Mu)/(math.Sqrt2*l.Sigma)))
}

//
 Variance returns the variance of the probability distribution.
func (l LogNormal) Variance() float64 {
 s2 := l.Sigma * l.Sigma
 return (math.Exp(s2) - 1) * math.Exp(2*l.Mu+s2)
}
graph{edg{{edg{edg{edg}{edg}edg}edg{}{edg}edg}edg{edg}edg{edg}{edg}edg}edg{edg}}
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// license that can be found in the LICENSE file.

package mathext

import (
 "math"
 "testing"
)

func TestMvLgamma(t *testing.T) {
 // Values compared with scipy
 for i, test := range []struct {
  v   float64
  dim int
  ans float64
 }{
  {10, 5, 58.893841851237397},
  {3, 1, 0.69314718055994529},
 } {
```

```
  ans := MvLgamma(test.v, test.dim)
  if math.Abs(test.ans-ans) > 1e-14 {
   t.Errorf("Case %v. got=%v want=%v.", i, ans, test.ans)
  }
 }
}
graph{{{SUBGRp}SUBGRp{SUBGRp}{{{SUBGRp}SUBGRp{SUBGRp}SUBGRp}}}}
// Derived from SciPy's special/cephes/igami.c
// https://github.com/scipy/scipy/blob/master/scipy/special/cephes/igami.c
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package cephes

import "math"

// IgamI computes the inverse of the incomplete Gamma function. That is, it
// returns the x such that:
//  IgamC(a, x) = p
// The input argument a must be positive and p must be between 0 and 1
// inclusive or IgamI will panic. IgamI should return a positive number, but
// can return 0 even with non-zero y due to underflow.
func IgamI(a, p float64) float64 {
 // Bound the solution
 x0 := math.MaxFloat64
 yl := 0.0
 x1 := 0.0
 yh := 1.0
 dithresh := 5.0 * machEp

 if p < 0 || p > 1 || a <= 0 {
  panic(badParamOutOfBounds)
 }

 if p == 0 {
  return
 math.Inf(1)
 }

 if p == 1 {
  return 0.0
 }

 // Starting with the approximate value
```

```
//  x = a y^3
// where
//  y = 1 - d - ndtri(p) sqrt(d)
// and
//  d = 1/9a
// the routine performs up to 10 Newton iterations to find the root of
//  IgamC(a, x) - p = 0
d := 1.0 / (9.0 * a)
y := 1.0 - d - Ndtri(p)*math.Sqrt(d)
x := a * y * y * y

lgm := lgam(a)

for i := 0; i < 10; i++ {
 if x > x0 || x < x1 {
  break
 }

 y = IgamC(a, x)

 if y < yl || y > yh {
  break
 }

 if y < p {
  x0 = x
  yl = y
 } else {
  x1 = x
  yh = y
 }

 // Compute the derivative of the function at this point
 d = (a-1)*math.Log(x) - x - lgm
 if d < -maxLog {
  break
 }
 d = -math.Exp(d)

 // Compute the step to the next approximation of x
 d = (y - p) / d
 if math.Abs(d/x) < machEp {
  return x
 }
 x = x - d
}

d = 0.0625
```

```
if x0 == math.MaxFloat64 {
 if x <= 0 {
  x = 1
 }
 for x0 == math.MaxFloat64 {
  x = (1 + d) * x
  y = IgamC(a, x)
  if y < p {
   x0 = x
   yl
= y
   break
  }
  d = d + d
 }
}

d = 0.5
dir := 0
for i := 0; i < 400; i++ {
 x = x1 + d*(x0-x1)
 y = IgamC(a, x)

 lgm = (x0 - x1) / (x1 + x0)
 if math.Abs(lgm) < dithresh {
  break
 }

 lgm = (y - p) / p
 if math.Abs(lgm) < dithresh {
  break
 }

 if x <= 0 {
  break
 }

 if y >= p {
  x1 = x
  yh = y
  if dir < 0 {
   dir = 0
   d = 0.5
  } else if dir > 1 {
   d = 0.5*d + 0.5
  } else {
   d = (p - yl) / (yh - yl)
  }
```

```
  dir++
 } else {
  x0 = x
  yl = y
  if dir > 0 {
   dir = 0
   d = 0.5
  } else if dir < -1 {
   d = 0.5 * d
  } else {
   d = (p - yl) / (yh - yl)
  }
  dir--
 }
}

return x
}
graph{{{{{Edge[]}Edge[]}}}}
graph{{{{GRR}GRU}{GRU}}}
graph{{STRE{STRE}}STRE{STRE}}
graph {/* Node Definitions */dc[e=t,l="C "]dc10[e=t,l="C "]dc100[e=t,l="C "]{k"""""""}/* Link Definitions *//*
Marking Unused Dialing Plans */no_[e=t,l=""]{k""}}
graph{{SubGra{{{SubGra}}}SubGra{{SubGra}}}SubGra}
graph{{DIGRAPO}}
```

1.3578 logback-core 1.3.14

1.3578.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/**
* Logback: the reliable, generic, fast and flexible logging framework.
* Copyright (C) 1999-2022, QOS.ch. All rights reserved.
* <p>
* This program and the accompanying materials are dual-licensed under
* either the terms of the Eclipse Public License v1.0 as published by
* the Eclipse Foundation
* <p>
* or (per the licensee's choosing)
* <p>
* under the terms of the GNU Lesser General Public License version 2.1
* as published by the Free Software Foundation.
*/
```

Found in path(s):
* /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-

jar/ch/qos/logback/core/util/EnvUtil.java
* /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/joran/sanity/AppenderWithinAppenderSanityChecker.java
* /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/model/processor/DefaultProcessor.java
* /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/util/ReflectionUtil.java
No license file was found, but licenses were detected in source scan.

```
/**
* Logback: the reliable, generic, fast and flexible logging framework.
* Copyright (C) 1999-2015, QOS.ch. All rights reserved.
*
* This program and the accompanying materials are dual-licensed under
* either the terms of the Eclipse Public License v1.0 as published by
* the Eclipse Foundation
*
*   or (per the licensee's choosing)
*
* under the terms of the GNU Lesser General Public License version 2.1
* as published by the Free Software Foundation.
*/
```

Found in path(s):
* /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/recovery/ResilientSyslogOutputStream.java
* /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/status/StatusBase.java
* /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/subst/Token.java
* /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/status/WarnStatus.java
*
 /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/spi/AbstractComponentTracker.java
* /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/html/NOPThrowableRenderer.java
* /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/joran/action/PreconditionValidator.java
* /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/spi/PropertyDefiner.java
* /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/status/OnErrorConsoleStatusListener.java
* /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/util/CharSequenceToRegexMapper.java
* /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/joran/spi/ConsoleTarget.java
*

/opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/net/server/RemoteReceiverStreamClient.java
* /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/joran/event/SaxEventRecorder.java
* /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/joran/event/BodyEvent.java
* /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/helpers/CyclicBuffer.java
* /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/util/Duration.java
* /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/boolex/JaninoEventEvaluatorBase.java
* /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/pattern/SpacePadder.java
* /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/status/OnConsoleStatusListener.java
*
/opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/net/ssl/SSLConfigurableSocket.java
* /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/joran/action/PropertyAction.java
* /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/pattern/color/BlackCompositeConverter.java
* /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/pattern/color/RedCompositeConverter.java
* /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/spi/CyclicBufferTracker.java
* /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/net/ssl/KeyStoreFactoryBean.java
* /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/hook/DefaultShutdownHook.java
*
/opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/joran/spi/SaxEventInterpreter.java
* /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/net/AbstractSSLSocketAppender.java
* /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/spi/LifeCycle.java
* /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/status/StatusListener.java
* /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/subst/Parser.java
* /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/pattern/color/GreenCompositeConverter.java
* /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/encoder/ByteArrayUtil.java
* /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/filter/AbstractMatcherFilter.java

*
/opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/net/server/SSLServerSocketAppenderBase.java
* /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/helpers/ThrowableToStringArray.java
* /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/util/DelayStrategy.java
* /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/pattern/util/RestrictedEscapeUtil.java
* /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/pattern/parser/SimpleKeywordNode.java
* /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/util/FixedDelay.java
* /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/net/SocketConnector.java
*
/opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/util/JNDIUtil.java
* /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/net/ObjectWriter.java
* /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/rolling/helper/MonoTypedConverter.java
* /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/sift/AbstractDiscriminator.java
* /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/net/ssl/ConfigurableSSLServerSocketFactory.java
* /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/net/SyslogAppenderBase.java
* /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/net/SyslogConstants.java
*
/opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/helpers/Transform.java
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* /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/joran/action/BaseModelAction.java
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* /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/model/processor/DefineModelHandler.java
* /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/joran/sanity/SanityChecker.java
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* /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/testUtil/EnvUtilForTests.java
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* /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/testUtil/TrivialStatusListener.java
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* /opt/cola/permits/1909151929_1707920348.661332/0/logback-core-1-3-14-sources-jar/ch/qos/logback/core/testUtil/FileToBufferUtil.java
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* /opt/cola/permits/1913135724_1708523717.9142082/0/protobuf-java-3-25-3-sources-jar/com/google/protobuf/Descriptors.java
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jar/com/google/protobuf/RpcUtil.java
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1.3595 github.com/pierrec/lz4/v4 4.1.21

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1.3605 google-uuid 1.6.0

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1.3612 github.com/google/cel-go 0.17.7

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1.3616 github.com/antonmedv/expr 1.15.4

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1.3617 future 1.0.0

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1.3618 @ampproject/remapping 2.2.0

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1.3619 @babel/helper-module-imports 7.18.6

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1.3620 eslint-module-utils 2.7.4

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1.3621 eslint-visitor-keys 3.3.0

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* While I have been telling people this for quite some time, I don't
* think I ever made a proper announcement to the CFRG or on the
* OCB webpage. Consider that done.
* </blockquote>
*/
```

Found in path(s):
* /opt/cola/permits/1915362060_1708698107.468474/0/bcprov-jdk18on-1-74-java-jar/org/bouncycastle/crypto/modes/OCBBlockCipher.java
No license file was found, but licenses were detected in source scan.

```
/**
* The NTRU algorithm based on the round 3 submission of the NIST post-quantum cryptography. For the old NTRU, see
* {@link org.bouncycastle.pqc.legacy.crypto.ntru}.
*
```

```
* <p>
* This implementation is based on the C reference implementation submitted for the round 3 NIST PQC
competition,
* released under CC0-1.0 license.
* </p>
*
* <p><a href="https://csrc.nist.gov/CSRC/media/Projects/post-quantum-cryptography/documents/round-
3/submissions/NTRU-Round3.zip">NIST submission files</a></p>
* <p><a href="https://github.com/jschanck/ntru/blob/master/LICENSE">License of reference
implementation</a></p>
*
* @see <a href="https://csrc.nist.gov/Projects/post-quantum-cryptography/round-3-submissions">NIST round 3
PQC submissions page</a>
* @see <a href="https://ntru.org/">NTRU website</a>
* @see <a href="https://ntru.org/f/ntru-20190330.pdf">NTRU specification</a>
*/
```

Found in path(s):
* /opt/cola/permits/1915362060_1708698107.468474/0/bcprov-jdk18on-1-74-java-jar/org/bouncycastle/pqc/crypto/ntru/package-info.java
No license file was found, but licenses were detected in source scan.

```
/**
* Contains the polynomial classes used in the NTRU round 3 algorithm.
*
* <p>
* This implementation is based on the C reference implementation submitted for the round 3 NIST PQC
competition,
* released under CC0-1.0 license.
* </p>
*
* <p><a href="https://csrc.nist.gov/CSRC/media/Projects/post-quantum-cryptography/documents/round-
3/submissions/NTRU-Round3.zip">NIST submission files</a></p>
* <p><a href="https://github.com/jschanck/ntru/blob/master/LICENSE">License of reference
implementation</a></p>
*/
```

Found in path(s):
* /opt/cola/permits/1915362060_1708698107.468474/0/bcprov-jdk18on-1-74-java-jar/org/bouncycastle/pqc/math/ntru/package-info.java
No license file was found, but licenses were detected in source scan.

```
public DomainParameters(BigInteger p, BigInteger g, BigInteger q, BigInteger j,
```

Found in path(s):
* /opt/cola/permits/1915362060_1708698107.468474/0/bcprov-jdk18on-1-74-java-jar/org/bouncycastle/asn1/x9/DomainParameters.java

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```
/**
* SPHINCS-256 signer.
* <p>
* This implementation is heavily based on the reference implementation in SUPERCOP, the main difference being the digests used
* for message hashing and tree construction are now configurable (within limits...) and that the implementation produces
* detached signatures.
* </p>
* <p>
* The SPHINCS reference implementation is public domain, as per the statement in the second last paragraph of
* section 1 in https://eprint.iacr.org/2014/795.pdf
* </p>
*/
```

Found in path(s):
* /opt/cola/permits/1915362060_1708698107.468474/0/bcprov-jdk18on-1-74-java-jar/org/bouncycastle/pqc/crypto/sphincs/SPHINCS256Signer.java
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```
/**
* Poly1305 message authentication code, designed by D. J. Bernstein.
* <p>
* Poly1305 computes a 128-bit (16 bytes) authenticator, using a 128 bit nonce and a 256 bit key
* consisting of a 128 bit key applied to an underlying cipher, and a 128 bit key (with 106
* effective key bits) used in the authenticator.
* <p>
* The polynomial calculation in this implementation is adapted from the public domain <a
* href="https://github.com/floodyberry/poly1305-donna">poly1305-donna-unrolled</a> C implementation
* by Andrew M (@floodyberry).
* @see Poly1305KeyGenerator
*/
```

Found in path(s):
* /opt/cola/permits/1915362060_1708698107.468474/0/bcprov-jdk18on-1-74-java-jar/org/bouncycastle/crypto/macs/Poly1305.java
No license file was found, but licenses were detected in source scan.

```
/**
* The Bouncy Castle License
*
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```

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*/

Found in path(s):
* /opt/cola/permits/1915362060_1708698107.468474/0/bcprov-jdk18on-1-74-java-jar/org/bouncycastle/LICENSE.java

1.3623 bcpkix-jdk18on 1.74

1.3623.1 Available under license :

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/**
 * Base constructor.
 *
 * The authorizer attempts to perform matching (including the use of the wildcard) in accordance with RFC 6125.
 *
 *
 * Known suffixes is a list of public domain suffixes that can't be used as wild cards for
 * example *.com, or c*c.com, as a dns wildcard could match every/most .com domains if a registrar were issue it.
 * If *.com is in the known suffixes list will not be allowed to match.
 *
 *
 * @param knownSuffixes a set of suffixes that cannot be wild-carded, e.g. { ".com", ".net", ".org" }
 */

Found in path(s):
* /opt/cola/permits/1915451915_1708699879.5988526/0/bcpkix-jdk18on-1-74-java-jar/org/bouncycastle/est/jcajce/JsseDefaultHostnameAuthorizer.java

1.3624 bcutil-jdk18on 1.74

1.3624.1 Available under license :

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JUnit

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```
/* Read an XML document from standard input and print an element
   outline on standard output.
   Must be used with Expat compiled for UTF-8 output.
```

```
                 __  __            _
                 ___\ \/ /_ __   __ _| |_
                / _ \\  /| '_ \ / _` | __|
               |  __//  \| |_) | (_| | |_
                \___/_/\_\ .__/ \__,_|\__|
                         |_| XML parser
```

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1.3626 pcre 10.43-r0

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1.3630 github.com/hashicorp/terraform-plugin-framework-validators 0.12.0

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Jackson JSON processor

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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1.3635 jline 3.25.1

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silver
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red
lime
yellow
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fuchsia
aqua
white
grey0
navyblue
darkblue
blue3
blue3a
blue1
darkgreen
deepskyblue4
deepskyblue4a
deepskyblue4b
dodgerblue3
dodgerblue2
green4
springgreen4
turquoise4
deepskyblue3
deepskyblue3a
dodgerblue1
green3
springgreen3
darkcyan
lightseagreen
deepskyblue2
deepskyblue1
green3a
springgreen3a
springgreen2
cyan3
darkturquoise
turquoise2
green1
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springgreen1
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cyan2
cyan1
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darkslategray1
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deeppink4b
mediumvioletred
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mediumorchid3
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darkgoldenrod
lightsalmon3
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mediumpurple2a
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gold3
darkkhaki
navajowhite3
grey69
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lightsteelblue
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darkolivegreen3b
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darkseagreen2
lightcyan3
lightskyblue1
greenyellow
darkolivegreen2

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magenta3b
magenta2
darkorange3a
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deeppink1a
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gold1
lightgoldenrod2a
lightgoldenrod2b
navajowhite1
mistyrose1
thistle1
yellow1
lightgoldenrod1
khaki1
wheat1
cornsilk1
grey100
grey3
grey7
grey11
grey15
grey19
grey23
grey27
grey30
grey35
grey39
grey42
grey46
grey50
grey54
grey58
grey62
grey66
grey70
grey74
grey78

grey82
grey85
grey89
grey93

Found
in path(s):
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/utils/colors.txt
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Found in path(s):
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/reader/impl/DefaultHighlighter.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/console/impl/ConsoleEngineImpl.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/reader/PrintAboveWriter.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/console/SystemRegistry.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/reader/impl/history/DefaultHistory.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/reader/impl/CompletionMatcherImpl.java
*
/opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/utils/AttributedCharSequence.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/reader/Highlighter.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/builtins/ConsoleOptionGetter.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/TerminalBuilder.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/AbstractTerminal.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/console/ArgDesc.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/builtins/Completers.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/builtins/TTop.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/builtins/Nano.java
*

/opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/reader/Parser.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/utils/AttributedStyle.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/builtins/Styles.java
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*
/opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/builtins/telnet/ConnectionFilter.java
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Found in path(s):
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/utils/AnsiWriter.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/jansi/win/WindowsAnsiWriter.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/jni/win/WindowsAnsiWriter.java
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Found in path(s):
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/reader/Expander.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/utils/OSUtils.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/utils/ClosedException.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/reader/impl/completer/EnumCompleter.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/utils/DiffHelper.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/Attributes.java
*
/opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/CursorSupport.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/AbstractPosixTerminal.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/Cursor.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/reader/impl/completer/NullCompleter.java

* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/keymap/KeyMap.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/NativeSignalHandler.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/utils/InputStreamReader.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/MouseSupport.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/utils/ShutdownHooks.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/MouseEvent.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/reader/Reference.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/jna/win/WindowsAnsiWriter.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/spi/Pty.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/reader/UserInterruptException.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/reader/Macro.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/utils/WCWidth.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/reader/Binding.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/reader/impl/completer/AggregateCompleter.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/utils/Levenshtein.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/reader/Widget.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/reader/impl/UndoTree.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/utils/AttributedString.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/exec/ExecPty.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/reader/impl/DefaultExpander.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/utils/ExecHelper.java
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auto_left_margin, bw, bw
auto_right_margin, am, am
back_color_erase, bce, ut

can_change, ccc, cc
ceol_standout_glitch, xhp, xs
col_addr_glitch, xhpa, YA
cpi_changes_res, cpix, YF
cr_cancels_micro_mode, crxm, YB
dest_tabs_magic_smso, xt, xt
eat_newline_glitch, xenl, xn
erase_overstrike, eo, eo
generic_type, gn, gn
hard_copy, hc, hc
hard_cursor, chts, HC
has_meta_key, km, km
has_print_wheel, daisy, YC
has_status_line, hs, hs
hue_lightness_saturation, hls, hl
insert_null_glitch, in, in
lpi_changes_res, lpix, YG
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memory_below, db, db
move_insert_mode, mir, mi
move_standout_mode, msgr, ms
needs_xon_xoff, nxon, nx
no_esc_ctlc, xsb, xb
no_pad_char, npc,
NP
non_dest_scroll_region, ndscr, ND
non_rev_rmcup, nrrmc, NR
over_strike, os, os
prtr_silent, mc5i, 5i
row_addr_glitch, xvpa, YD
semi_auto_right_margin, sam, YE
status_line_esc_ok, eslok, es
tilde_glitch, hz, hz
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init_tabs, it, it
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magic_cookie_glitch, xmc, sg
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max_colors, colors, Co
max_pairs, pairs, pa
maximum_windows, wnum, MW
no_color_video, ncv, NC
num_labels, nlab, Nl

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bit_image_type, bitype, Yp
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dot_vert_spacing, spinv, Yb
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max_micro_jump, mjump, Ye
micro_col_size, mcs, Yf
micro_line_size, mls, Yg
number_of_pins, npins, Yh
output_res_char, orc, Yi
output_res_horz_inch, orhi, Yk
output_res_line, orl, Yj
output_res_vert_inch,
orvi, Yl
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change_line_pitch, lpi, ZB
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change_res_vert, cvr, ZD
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clear_margins, mgc, MC
clear_screen, clear, cl
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clr_eol, el, ce
clr_eos, ed, cd
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cursor_home, home, ho
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cursor_mem_address, mrcup, CM
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delete_line, dl1, dl
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dis_status_line, dsl, ds
display_clock, dclk, DK
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enter_am_mode, smam,
SA
enter_blink_mode, blink, mb
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enter_superscript_mode, ssupm, ZO
enter_underline_mode, smul, us
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exit_attribute_mode, sgr0, me
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exit_doublewide_mode, rwidm, ZQ
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exit_leftward_mode, rlm, ZS
exit_micro_mode, rmicm, ZT

exit_shadow_mode, rshm,
ZU
exit_standout_mode, rmso, se
exit_subscript_mode, rsubm, ZV
exit_superscript_mode, rsupm, ZW
exit_underline_mode, rmul, ue
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init_prog, iprog, iP
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insert_line, il1, al
insert_padding, ip, ip
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key_exit, kext, @9
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key_f13, kf13, F3
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key_f15, kf15, F5
key_f16, kf16, F6
key_f17, kf17, F7
key_f18, kf18, F8
key_f19, kf19, F9
key_f2, kf2, k2
key_f20, kf20, FA
key_f21, kf21, FB
key_f22, kf22, FC
key_f23, kf23, FD
key_f24, kf24, FE
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key_ll, kll, kH
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key_message, kmsg, %3
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lab_f0, lf0, l0
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lab_f10, lf10, la
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lab_f3, lf3, l3
lab_f4, lf4, l4
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lab_f6, lf6, l6
lab_f7, lf7, l7
lab_f8, lf8, l8
lab_f9, lf9, l9
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label_off, rmln, LF

label_on, smln, LO
meta_off, rmm, mo
meta_on, smm, mm
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micro_down, mcud1, ZZ
micro_left, mcub1, Za
micro_right, mcuf1, Zb
micro_row_address, mvpa, Zc
micro_up, mcuu1, Zd
newline, nel, nw
order_of_pins, porder, Ze
orig_colors, oc, oc
orig_pair, op, op
pad_char, pad, pc
parm_dch, dch, DC
parm_delete_line, dl, DL
parm_down_cursor, cud, DO
parm_down_micro,
mcud, Zf
parm_ich, ich, IC
parm_index, indn, SF
parm_insert_line, il, AL
parm_left_cursor, cub, LE
parm_left_micro, mcub, Zg
parm_right_cursor, cuf, RI
parm_right_micro, mcuf, Zh
parm_rindex, rin, SR
parm_up_cursor, cuu, UP
parm_up_micro, mcuu, Zi
pkey_key, pfkey, pk
pkey_local, pfloc, pl
pkey_xmit, pfx, px
plab_norm, pln, pn
print_screen, mc0, ps
prtr_non, mc5p, pO
prtr_off, mc4, pf
prtr_on, mc5, po
pulse, pulse, PU
quick_dial, qdial, QD
remove_clock, rmclk, RC
repeat_char, rep, rp
req_for_input, rfi, RF
reset_1string, rs1, r1
reset_2string, rs2, r2
reset_3string, rs3, r3
reset_file, rf, rf
restore_cursor, rc, rc
row_address, vpa, cv

save_cursor, sc, sc
scroll_forward, ind, sf
scroll_reverse, ri, sr
select_char_set, scs, Zj
set_attributes, sgr, sa
set_background, setb, Sb
set_bottom_margin, smgb, Zk
set_bottom_margin_parm, smgbp, Zl
set_clock, sclk, SC
set_color_pair, scp, sp
set_foreground, setf, Sf
set_left_margin, smgl, ML
set_left_margin_parm, smglp, Zm
set_right_margin,
smgr, MR
set_right_margin_parm, smgrp, Zn
set_tab, hts, st
set_top_margin, smgt, Zo
set_top_margin_parm, smgtp, Zp
set_window, wind, wi
start_bit_image, sbim, Zq
start_char_set_def, scsd, Zr
stop_bit_image, rbim, Zs
stop_char_set_def, rcsd, Zt
subscript_characters, subcs, Zu
superscript_characters, supcs, Zv
tab, ht, ta
these_cause_cr, docr, Zw
to_status_line, tsl, ts
tone, tone, TO
underline_char, uc, uc
up_half_line, hu, hu
user0, u0, u0
user1, u1, u1
user2, u2, u2
user3, u3, u3
user4, u4, u4
user5, u5, u5
user6, u6, u6
user7, u7, u7
user8, u8, u8
user9, u9, u9
wait_tone, wait, WA
xoff_character, xoffc, XF
xon_character, xonc, XN
zero_motion, zerom, Zx
alt_scancode_esc, scesa, S8
bit_image_carriage_return, bicr, Yv

bit_image_newline, binel, Zz
bit_image_repeat, birep, Xy
char_set_names, csnm, Zy
code_set_init, csin, ci
color_names, colornm, Yw
define_bit_image_region, defbi, Yx
device_type, devt, dv
display_pc_char, dispc, S1
end_bit_image_region, endbi, Yy
enter_pc_charset_mode,
 smpch, S2
enter_scancode_mode, smsc, S4
exit_pc_charset_mode, rmpch, S3
exit_scancode_mode, rmsc, S5
get_mouse, getm, Gm
key_mouse, kmous, Km
mouse_info, minfo, Mi
pc_term_options, pctrm, S6
pkey_plab, pfxl, xl
req_mouse_pos, reqmp, RQ
scancode_escape, scesc, S7
set0_des_seq, s0ds, s0
set1_des_seq, s1ds, s1
set2_des_seq, s2ds, s2
set3_des_seq, s3ds, s3
set_a_background, setab, AB
set_a_foreground, setaf, AF
set_color_band, setcolor, Yz
set_lr_margin, smglr, ML
set_page_length, slines, YZ
set_tb_margin, smgtb, MT
enter_horizontal_hl_mode, ehhlm, Xh
enter_left_hl_mode, elhlm, Xl
enter_low_hl_mode, elohlm, Xo
enter_right_hl_mode, erhlm, Xr
enter_top_hl_mode, ethlm, Xt
enter_vertical_hl_mode, evhlm, Xv
set_a_attributes, sgr1, sA
set_pglen_inch, slength, sL

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#
class = org.jline.terminal.impl.jni.JniTerminalProvider

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* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/ffm/FfmTerminalProvider.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/ffm/NativeWinSysTerminal.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/ffm/FfmNativePty.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/ffm/NativeWinConsoleWriter.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/ffm/CLibrary.java
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#
class = org.jline.terminal.impl.jansi.JansiTerminalProvider

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* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/utils/Log.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/reader/impl/ReaderUtils.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-

jar/org/jline/terminal/impl/jansi/JansiTerminalProvider.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/console/impl/JlineCommandRegistry.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/reader/LineReaderBuilder.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/reader/impl/completer/SystemCompleter.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/reader/EndOfFileException.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/jna/linux/LinuxNativePty.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/utils/ColorPalette.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/console/CmdLine.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/widget/AutopairWidgets.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/jna/freebsd/CLibrary.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/jni/JniTerminalProvider.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/jni/win/NativeWinSysTerminal.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/console/CommandInput.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/jna/solaris/CLibrary.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/jni/JniNativePty.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/jna/solaris/SolarisNativePty.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/jna/freebsd/FreeBsdNativePty.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/console/impl/AbstractCommandRegistry.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/jna/JnaTerminalProvider.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/utils/Signals.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/widget/AutosuggestionWidgets.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/reader/CompletionMatcher.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/console/CmdDesc.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/console/CommandRegistry.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/jna/win/JnaWinSysTerminal.java

* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/jansi/win/JansiWinSysTerminal.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/console/CommandMethods.java
*
 /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/jna/osx/CLibrary.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/jna/linux/CLibrary.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/console/ScriptEngine.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/jna/JnaNativePty.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/reader/impl/DefaultParser.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/utils/Display.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/jansi/JansiNativePty.java
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* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/utils/package-info.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/reader/impl/history/package-info.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/package-info.java
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* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/jansi/AnsiMain.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-
jar/org/jline/jansi/io/AnsiProcessor.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-
jar/org/jline/jansi/io/AnsiOutputStream.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-
jar/org/jline/jansi/AnsiPrintStream.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-
jar/org/jline/terminal/impl/ffm/Kernel32.java
*
 /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-
jar/org/jline/jansi/WindowsSupport.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-

jar/org/jline/jansi/io/FastBufferedOutputStream.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/jansi/io/WindowsAnsiProcessor.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/jansi/AnsiRenderer.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/jansi/AnsiConsole.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/utils/FastBufferedOutputStream.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/nativ/CLibrary.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/jansi/AnsiColors.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/jansi/io/Colors.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/jansi/io/ColorsAnsiProcessor.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/jansi/Ansi.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/jansi/AnsiType.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/nativ/Kernel32.java
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* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/spi/TerminalExt.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/jansi/win/WindowsSupport.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/reader/SyntaxError.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/spi/SystemStream.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/reader/EOFError.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/DumbTerminalProvider.java
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* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/reader/impl/InputRC.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/widget/TailTipWidgets.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/builtins/Commands.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/widget/Widgets.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/console/impl/SystemRegistryImpl.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/builtins/Less.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/reader/impl/LineReaderImpl.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/AbstractWindowsTerminal.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/reader/LineReader.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/builtins/SyntaxHighlighter.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/console/ConsoleEngine.java
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#
class = org.jline.terminal.impl.jna.JnaTerminalProvider

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* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/style/MemoryStyleSource.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/style/StyleBundle.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/jansi/linux/LinuxNativePty.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/style/StyleBundleInvocationHandler.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/builtins/telnet/Telnet.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/jni/osx/OsXNativePty.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/style/StyledWriter.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/reader/impl/SimpleMaskingCallback.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/style/InterpolationHelper.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/jansi/osx/OsXNativePty.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/style/StyleColor.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/reader/impl/BufferImpl.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/jansi/solaris/SolarisNativePty.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/jni/linux/LinuxNativePty.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/style/StyleResolver.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/AbstractWindowsConsoleWriter.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/jansi/freebsd/FreeBsdNativePty.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/jna/win/JnaWinConsoleWriter.java

* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/utils/WriterOutputStream.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/builtins/ssh/Ssh.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/builtins/ssh/ShellCommand.java
*
/opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/reader/Buffer.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/utils/PumpReader.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/utils/NonBlockingPumpInputStream.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/jni/freebsd/FreeBsdNativePty.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/jni/solaris/SolarisNativePty.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/utils/NonBlockingPumpReader.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/jni/win/NativeWinConsoleWriter.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/jansi/win/JansiWinConsoleWriter.java
*
/opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/builtins/ssh/ShellFactoryImpl.java
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* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/console/Printer.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/console/impl/SystemHighlighter.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/builtins/Source.java
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* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/META-INF/maven/org.jline/jline-terminal-jansi/pom.xml
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/META-INF/maven/org.jline/jline-remote-ssh/pom.xml
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/META-INF/maven/org.jline/jline-terminal/pom.xml
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/META-INF/maven/org.jline/jline-builtins/pom.xml
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/META-INF/maven/org.jline/jline-reader/pom.xml
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/META-INF/maven/org.jline/jline-terminal-ffm/pom.xml
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/META-INF/maven/org.jline/jline-

style/pom.xml
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/META-INF/maven/org.jline/jline-terminal-jni/pom.xml
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/META-INF/maven/org.jline/jline-terminal-jna/pom.xml
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* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/reader/impl/completer/StringsCompleter.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/reader/Candidate.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/reader/Editor.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/builtins/ConfigurationPath.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/utils/InfoCmp.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/builtins/Tmux.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/AbstractPty.java
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* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/nativ/OSInfo.java
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* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/exec/ExecTerminalProvider.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/Diag.java
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* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/Size.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/utils/NonBlockingInputStream.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/PosixSysTerminal.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/reader/CompletingParsedLine.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/reader/impl/KillRing.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/DumbTerminal.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/utils/AttributedStringBuilder.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/utils/StyleResolver.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/utils/Colors.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/utils/NonBlockingInputStreamImpl.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/keymap/BindingReader.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/utils/NonBlockingReaderImpl.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/style/Styler.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/utils/NonBlockingReader.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/style/StyleSource.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/utils/NonBlocking.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/utils/Timeout.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/Terminal.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/reader/Completer.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/PosixPtyTerminal.java

* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/builtins/NfaMatcher.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/builtins/InputRC.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/utils/Curses.java
*
/opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/reader/ParsedLine.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/style/StyleExpression.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/reader/impl/completer/FileNameCompleter.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/reader/MaskingCallback.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/LineDisciplineTerminal.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/ExternalTerminal.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/reader/History.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/terminal/impl/jna/win/Kernel32.java
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* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/builtins/telnet/ConnectionEvent.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/builtins/telnet/ConnectionData.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/builtins/telnet/TelnetIO.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/builtins/telnet/ConnectionManager.java
* /opt/cola/permits/1918714278_1709035339.1129665/0/jline-3-25-1-sources-jar/org/jline/builtins/telnet/Connection.java

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Note that people who make modified versions of strongSwan are not obligated to
grant this special exception for their modified versions; it is their choice
whether to do so. The GNU General Public License gives permission to release a
modified version without this exception; this exception also makes it possible

to release a modified version which carries forward this exception.

The
 DES implementation in the des plugin and the Blowfish implementation in the
blowfish plugin are under a BSD style license (see source files for details).
Note that these parts have an advertising clause in it.

The MD4 and MD5 implementations in the md4 and md5 plugins are from RSA Data
Security Inc., so this package must include the following phrase:
"derived from the RSA Data Security, Inc. MD5 Message-Digest Algorithm".
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1.3644 aws-sdk-go-v2 1.25.0

1.3644.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
```

```
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-
Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil,
 err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription
```

```
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err !=
 nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddRecordResponseTiming(stack);
 err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "AssociateLicense",
```

```
 }
}
```

AWS SDK for Go

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```
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
     - name: Checkout scancode
       uses: actions/checkout@v2
       with:
         repository: nexB/scancode-toolkit
         path: scancode-toolkit
         fetch-depth: 1
     - name: Set up Python ${{ matrix.python-version }}
        uses: actions/setup-python@v2
       with:
         python-version: ${{ matrix.python-version }}
     # ScanCode
     - name: Self-configure scancode
       working-directory: ./scancode-toolkit
       run: ./scancode --help
     - name: Run Scan code on target
```

```
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
```

```
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
```

```
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return
 err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
```

```
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckInLicense",
 }
}
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
      "type": "integer"
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
      "type": "long"
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
      "type": "structure",
      "members": {
        "Name": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The type of name to filter by.</p>"
          }
        },
        "Values": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
          "traits": {
            "smithy.api#documentation": "<p>One or more values for the name to filter by.</p>"
          }
        },
        "Operator": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
           "traits": {
            "smithy.api#documentation": "<p>An operator for filtering results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>A filter object that is used to return more specific results from a describe
operation.\n      Filters can be used to match a set of resources by specific criteria.</p>"
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
      }
```

```
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
        },
        "output": {

          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the Linux subscriptions service settings.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/GetServiceSettings"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest":
{
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "LinuxSubscriptionsDiscovery": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
                "traits": {
                    "smithy.api#documentation": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
                }
            },
            "LinuxSubscriptionsDiscoverySettings": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
                "traits": {
```

"smithy.api#documentation": " Lists the settings defined for Linux subscriptions discovery. The settings include if\n Organizations integration has been enabled, and
which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation": " A message which details the Linux subscriptions service settings current status. "
}
},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Region in which License Manager displays
the aggregated data for Linux\n subscriptions. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
"type": "structure",
"members": {
"AmiId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The AMI ID used to launch the instance. "
}
},
"InstanceID": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The instance ID of the resource. "
}
},
"InstanceType": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The instance type of the resource. "
}

```
        },
            "AccountID": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The account ID which owns the instance.</p>"
                }
            },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status of the instance.</p>"
                }
            },
            "Region": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The Region the instance is running in.</p>"
                }
            },
            "UsageOperation": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The usage operation of the instance. For more information, see For
 more information, see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-
subscriptions-usage-operation.html\">Usage\n        operation values</a> in the <i>License Manager User
Guide</i>.</p>"
                }
            },
            "ProductCode": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",
                "traits": {
                    "smithy.api#documentation": "<p>The product code for the instance. For more information, see <a
href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-subscriptions-usage-
operation.html\">Usage\n        operation values</a> in the <i>License Manager User Guide</i> .</p>"
                }
            },
            "LastUpdatedTime": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The time in which the last discovery
 updated the instance details.</p>"
                }
            },
            "SubscriptionName": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the subscription being used by the instance.</p>"
```

```
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details discovered information about a running instance using Linux
subscriptions.</p>"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
             }
        },
        "traits": {
            "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
            "smithy.api#error": "server"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
        "type": "service",
        "version": "2018-05-10",
        "operations": [
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
            }
        ],

    "traits": {
            "aws.api#service": {
                "sdkId": "License Manager Linux Subscriptions",
                "arnNamespace": "license-manager-linux-subscriptions",
```

"cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
},
"aws.auth#sigv4": {
"name": "license-manager-linux-subscriptions"
},
"aws.protocols#restJson1": {},
"smithy.api#cors": {
"additionalAllowedHeaders": [
"*",
"content-type",
"x-amz-content-sha256",
"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",
"x-api-key",
"authorization",
"x-amz-date",

"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"
]
},
"smithy.api#documentation": " With License Manager, you can discover and track your commercial Linux subscriptions on running\n Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager Linux Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not

support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",

"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}
},
"rules": [
{
"conditions": [
{
"fn": "isSet",
"argv": [
{
"ref": "Endpoint"
}
]
}
],
"type": "tree",
"rules": [
{

"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseFIPS"
},
true
]
}
],
"error": "Invalid Configuration: FIPS and custom endpoint are not supported",
"type": "error"

```
            },
            {
              "conditions": [],
              "type": "tree",
              "rules": [
                {

             "conditions": [
                    {
                      "fn": "booleanEquals",
                      "argv": [
                        {
                          "ref": "UseDualStack"
                        },
                        true
                      ]
                    }
                  ],
                  "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                  "type": "error"
                },
                {
                  "conditions": [],

          "endpoint": {
                    "url": {
                      "ref": "Endpoint"
                    },
                    "properties": {},
                    "headers": {}
                  },
                  "type": "endpoint"
                }
              ]
            }
          ]
        },
        {
          "conditions": [],
          "type": "tree",
          "rules": [
            {
              "conditions": [
                {
                  "fn": "isSet",

"argv": [
                    {
```

```
                    "ref": "Region"
                }
            ]
        }
    ],
    "type": "tree",
    "rules": [
        {
            "conditions": [
                {
                    "fn": "aws.partition",
                    "argv": [
                        {
                            "ref": "Region"
                        }
                    ],

"assign": "PartitionResult"
                }
            ],
            "type": "tree",
            "rules": [
                {
                    "conditions": [
                        {
                            "fn": "booleanEquals",
                            "argv": [
                                {
                                    "ref": "UseFIPS"
                                },
                                true
                            ]
                        },

                {
                            "fn": "booleanEquals",
                            "argv": [
                                {
                                    "ref": "UseDualStack"
                                },
                                true
                            ]
                        }
                    ],
                    "type": "tree",
                    "rules": [
                        {
                            "conditions": [
```

```
                    {

                  "fn": "booleanEquals",
                      "argv": [
                        true,
                        {
                          "fn": "getAttr",
                          "argv": [
                            {
                              "ref": "PartitionResult"
                            },
                            "supportsFIPS"
                          ]

}
                      ]
                    },
                    {
                      "fn": "booleanEquals",
                      "argv": [
                        true,
                        {
                          "fn": "getAttr",
                          "argv": [
                            {
                              "ref": "PartitionResult"
                            },

                       "supportsDualStack"
                          ]
                        }
                      ]
                    }
                  ],
                  "type": "tree",
                  "rules": [
                    {
                      "conditions": [],
                      "type": "tree",
                      "rules": [
                        {

              "conditions": [],
                          "endpoint": {
                            "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                            "properties": {},
                            "headers": {}
```

```
                                    },
                                    "type": "endpoint"
                                }
                            ]
                        }
                    ]

                },
                    {
                        "conditions": [],
                        "error": "FIPS and DualStack are enabled, but this partition does not support
one or both",
                        "type": "error"
                    }
                ]
            },
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {

"ref": "UseFIPS"
                            },
                            true
                        ]
                    }
                ],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    true,

{
                                    "fn": "getAttr",
                                    "argv": [
                                        {
                                            "ref": "PartitionResult"
                                        },
                                        "supportsFIPS"
                                    ]
                                }
                            ]
```

```
                    }
                ],
                "type": "tree",

            "rules": [
                    {
                        "conditions": [],
                        "type": "tree",
                        "rules": [
                            {
                                "conditions": [],
                                "endpoint": {
                                    "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                                    "properties": {},
                                    "headers": {}

                                },
                                "type": "endpoint"
                            }
                        ]
                    }
                ]
            },
            {
                "conditions": [],
                "error": "FIPS is enabled but this partition does not support FIPS",
                "type": "error"
            }
        ]

    },
            {
        "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [
                    {
                        "ref": "UseDualStack"
                    },
                    true
                ]
            }
        ],
        "type": "tree",
        "rules": [
            {
```

```
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            true,
                            {
                                "fn": "getAttr",
                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },
                                    "supportsDualStack"
                                ]
                            }
                        ]
                    }
                ],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [],
                        "type": "tree",
                        "rules": [
                            {
                                "conditions": [],

                            "endpoint": {
                                    "url": "https://license-manager-linux-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                    "properties": {},
                                    "headers": {}
                                },
                                "type": "endpoint"
                            }
                        ]
                    }
                ]
            },

        {
                "conditions": [],
                "error": "DualStack is enabled but this partition does not support DualStack",
                "type": "error"
            }
        ]
    },
    {
        "conditions": [],
```

"type": "tree",
"rules": [
{
"conditions": [],
"endpoint": {
"url":
"https://license-manager-linux-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
}
]
}
]
},
{
"conditions": [],
"error": "Invalid Configuration: Missing Region",
"type": "error"
}
]
}
]
},
"smithy.rules#endpointTests": {
"testCases": [
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {

"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"

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        }
    },
    "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": false
    }
},
{
    "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
        }
    },
    "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
         "UseDualStack": true
    }
},
{
    "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
        }
    },
    "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": false
    }
},
{
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
    "expect": {
        "endpoint": {

    "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
        }
    },
    "params": {
        "Region": "cn-north-1",
        "UseFIPS": true,
        "UseDualStack": true
    }
},
```

```
        {
          "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
            }
          },
          "params": {
            "Region": "cn-north-1",
            "UseFIPS": true,
             "UseDualStack": false
          }
        },
        {
          "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
            }
          },
          "params": {
            "Region": "cn-north-1",
            "UseFIPS": false,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint":
{
              "url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
            }
          },
          "params": {
            "Region": "cn-north-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
            }
          },
          "params": {
```

"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint":
{
"url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {

"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{

"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",

"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {

"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled
and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",

"UseFIPS": false,
"UseDualStack": false
}

```
            },
            {
              "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://example.com"
                }
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
              }
            },
            {
              "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",

        "expect": {
                "endpoint": {
                  "url": "https://example.com"
                }
              },
              "params": {
                "UseFIPS": false,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
              }
            },
            {
              "documentation": "For custom endpoint with fips enabled and dualstack disabled",
              "expect": {
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": false,

          "Endpoint": "https://example.com"
              }
            },
            {
              "documentation": "For custom endpoint with fips disabled and dualstack enabled",
              "expect": {
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
              },
```

```
                "params": {
                  "Region": "us-east-1",
                  "UseFIPS": false,
                  "UseDualStack": true,
                  "Endpoint": "https://example.com"
                }
              },
              {
                "documentation": "Missing region",
                "expect": {
                  "error": "Invalid Configuration: Missing Region"
                }

          }
            ],
            "version": "1.0"
          }
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
        "type": "string",
        "traits": {
          "smithy.api#enum": [
            {
              "name": "Enabled",
              "value": "Enabled",
              "documentation": "Enabled LinuxSubscriptionsDiscovery"
            },
            {
              "name": "Disabled",
              "value": "Disabled",
              "documentation": "Disabled LinuxSubscriptionsDiscovery"
            }
          ]
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
        "type": "structure",
        "members": {
          "SourceRegions": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
             "traits": {
              "smithy.api#documentation": "<p>The Regions in which to discover data for Linux
subscriptions.</p>",
              "smithy.api#required": {}
            }
          },
          "OrganizationIntegration": {
```

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
"traits": {
"smithy.api#documentation": " Details if you have enabled resource discovery across your accounts in Organizations. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Lists the settings defined for discovering Linux subscriptions. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances": {
"type":
"operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the running Amazon EC2 instances that were discovered with commercial Linux\n subscriptions. ",
"smithy.api#http": {

"code": 200,
"method": "POST",
"uri": "/subscription/ListLinuxSubscriptionInstances"
},
"smithy.api#idempotent": {},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "Instances"
}

```
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest": {
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify. For example, you can filter by
 the name of\n        <code>AmiID</code> with an optional operator to see subscriptions that match, partially\n
match, or don't match a certain Amazon Machine Image (AMI) ID.</p>\n        <p>The valid names for this filter
are:</p>\n        <ul>\n            <li>\n                <p>\n                <code>AmiID</code>\n                </p>\n
</li>\n            <li>\n                <p>\n                <code>InstanceID</code>\n                </p>\n            </li>\n
<li>\n                <p>\n                <code>AccountID</code>\n                </p>\n            </li>\n            <li>\n
<p>\n                <code>Status</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>Region</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>UsageOperation</code>\n                </p>\n            </li>\n            <li>\n
    <p>\n                <code>ProductCode</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
     <code>InstanceType</code>\n                </p>\n            </li>\n        </ul>\n        <p>The valid Operators for this
filter are:</p>\n        <ul>\n            <li>\n                <p>\n                <code>contains</code>\n                </p>\n
</li>\n            <li>\n                <p>\n                <code>equals</code>\n                </p>\n            </li>\n            <li>\n
        <p>\n                <code>Notequal</code>\n                </p>\n            </li>\n        </ul>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"

       }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>",
                    "smithy.api#length": {
                        "min": 1,
                        "max": 16384
                    }
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
        }
    },
```

"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
"type": "structure",
"members": {
"Instances": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
"traits": {
"smithy.api#documentation":
" An array that contains instance objects. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the Linux subscriptions that have been discovered. If you have linked your\n organization, the returned results will include data aggregated across your accounts in\n Organizations. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/ListLinuxSubscriptions"
},
"smithy.api#idempotent": {},
"smithy.api#paginated": {

"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "Subscriptions"
}

}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. For example, you can filter by the name of\n <code>Subscription</code> with an optional operator to see subscriptions that match,\n partially match, or don't match a certain subscription's name. \n The valid names for this filter are: \n \n \n \n <code>Subscription</code>\n \n \n \n The valid Operators for this filter are: \n \n \n \n <code>contains</code>\n \n \n \n \n <code>equals</code>\n \n \n \n \n <code>Notequal</code>\n \n \n "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. ",
"smithy.api#length": {

"min": 1,
"max": 16384
}
}
}
},
"traits": {
"smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if parameters in request increases."
}
},

"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
"type": "structure",
"members": {
"Subscriptions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
"traits": {
"smithy.api#documentation": " An array that contains subscription objects. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for
the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "EQUAL",
"value": "Equal",
"documentation": "Equal operator"
},
{
"name": "NOT_EQUAL",
"value": "NotEqual",
"documentation": "Not equal operator"
},
{
"name": "CONTAINS",
"value": "Contains",
"documentation": "Contains operator"
}
],
"smithy.api#length": {
"min": 1,
"max": 20
}
}
},

"com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration": {
"type": "string",
"traits": {

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        "smithy.api#enum": [
          {
            "name": "Enabled",
            "value": "Enabled",
            "documentation": "Enabled OrganizationIntegration"
          },
          {
            "name": "Disabled",
            "value": "Disabled",
            "documentation": "Disabled OrganizationIntegration"
          }
        ]
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
      "type": "list",
      "member": {
        "target": "smithy.api#String"
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
      "type": "string",
      "traits": {
        "smithy.api#enum": [

{
            "name": "InProgress",
            "value": "InProgress",
            "documentation": "InProgress status"
          },
          {
            "name": "Completed",
            "value": "Completed",
            "documentation": "Completed status"
          },
          {
            "name": "Successful",
            "value": "Successful",
            "documentation": "Successful status"
          },
          {
            "name": "Failed",
            "value": "Failed",
            "documentation": "Failed status"
          }
        ]
      }
    },
```

"com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
"type": "list",
"member": {
"target": "smithy.api#String",
"traits":
{
"smithy.api#length": {
"min": 1,
"max": 100
}
}
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 100
},
"smithy.api#uniqueItems": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
"type": "map",
"key": {
"target": "smithy.api#String"
},
"value": {
"target": "smithy.api#String"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
"type": "structure",
"members": {
"Name": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the subscription. "

}
},
"Type": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own\n Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the\n Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS. "
}
},

"InstanceCount": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
"traits": {
"smithy.api#documentation": " The total amount of running instances using this subscription. "
}
}
},
"traits": {
"smithy.api#documentation": " An object which details a discovered Linux subscription. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request was denied due to request throttling. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
},

"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates the service settings for Linux subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/UpdateServiceSettings"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest":
{
        "type": "structure",
        "members": {
            "LinuxSubscriptionsDiscovery": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
                "traits": {
                    "smithy.api#documentation": "<p>Describes if the discovery of Linux subscriptions is enabled.</p>",
                    "smithy.api#required": {}
                }
            },
            "LinuxSubscriptionsDiscoverySettings": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
                "traits": {
                    "smithy.api#documentation": "<p>The settings defined for Linux subscriptions discovery. The
settings include if Organizations\n      integration has been enabled, and which Regions data will be aggregated
from.</p>",

  "smithy.api#required": {}
                }
            },
            "AllowUpdate": {
                "target": "smithy.api#Boolean",
                "traits": {
                    "smithy.api#documentation": "<p>Describes if updates are allowed to the service settings for Linux
subscriptions. If you\n      allow updates, you can aggregate Linux subscription data in more than one home
Region.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "LinuxSubscriptionsDiscovery": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
```

"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},

"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation": " A message which details the Linux subscriptions service settings current status. "
}
},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Region in which License Manager displays the aggregated data for Linux\n subscriptions. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The provided input is not valid. Try your request again. ",
"smithy.api#error": "client"
}
}

```
   }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //   - Beneficiary
 //   - ProductSKU
 //   - Fingerprint
 //
   - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
```

```
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if
 err := addProtocolFinalizerMiddlewares(stack, options, "ListLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
```

```
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
```

```
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:
     ServiceID,
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
```

```
 //
 //
 This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack,
 options, "DisassociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
```

```
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata
 {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
```

```
 return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
 CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {
```

```
 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource
 Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil
```

```
{
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack);
err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
```

```
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
```

```
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier
 that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
```

```
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutBorrowLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }
```

```
 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return
 err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
```

```
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
```

```
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide
 to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
 // borrow configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //
 // This member is required.
```

```
 LicenseName *string

 // Product name.
 //
 // This member is required.
 ProductName *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity
 *types.DatetimeRange

 // Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
```

```
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
 return fmt.Errorf("add
protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName:
 "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
```

```
err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return
err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack);
 err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "GetLicense",
 }
}
```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
   - ProductSKU
 //   - Status
 //   - Fingerprint
 //   - IssuerName
 //   - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{},
```

```
middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack);
err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
```

```
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "ListReceivedLicenses",
 }
}
```

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```
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException": {
      "type": "structure",
      "members": {
        "message": {
          "target": "smithy.api#String"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>You don't have sufficient access to perform this action.</p>",
        "smithy.api#error": "client"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
      "type": "structure",
      "members": {
        "DirectoryId": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The directory ID for an Active Directory identity provider.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation":
"<p>Details about an Active Directory identity provider.</p>"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUser": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
```

```
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Associates the user to an EC2 instance to utilize user-based
subscriptions.</p>\n        <note>\n            <p>Your estimated bill for charges on the number of users and related
costs will take 48\n        hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing
status) in Amazon Web Services Billing. For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n
        monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n        </note>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/AssociateUser"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the
 EC2 instance, which provides user-based subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
```

```
            "traits": {
                "smithy.api#documentation": "<p>The identity provider of the user.</p>",
                "smithy.api#required": {}
            }
        },
        "Domain": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The domain name of the user.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse": {
    "type": "structure",
    "members": {
        "InstanceUserSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
             "traits": {
                "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#BoxInteger": {
    "type": "integer"
},
"com.amazonaws.licensemanagerusersubscriptions#ConflictException": {
    "type": "structure",
    "members": {
        "message": {
            "target": "smithy.api#String"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>The request couldn't be completed because it conflicted with the current
state of the\n      resource.</p>",
        "smithy.api#error": "server"
    }
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider":
 {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest"
    },
    "output": {
```

"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deregisters the identity provider from providing user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/DeregisterIdentityProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",

```
            "traits": {
                "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse": {
    "type": "structure",
    "members": {
        "IdentityProviderSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
            "traits": {
                "smithy.api#documentation":
"<p>Metadata that describes the results of an identity provider operation.</p>",
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUser": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
         },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
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"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
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"traits": {
"smithy.api#documentation": " Disassociates the user from an EC2 instance providing user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/DisassociateUser"
},
"smithy.api#idempotent": {}
}

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"com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
},
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}

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    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse": {
        "type": "structure",
        "members": {
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                "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },

"com.amazonaws.licensemanagerusersubscriptions#Filter": {
        "type": "structure",
        "members": {
            "Attribute": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of an attribute to use as a filter.</p>"
                }
            },
            "Operation": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The type of search (For example, eq, geq, leq)</p>"
                }
            },
            "Value": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Value of the filter.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A filter name and value pair that is used
to return more specific results from a describe\n      operation. Filters can be used to match a set of resources by
specific criteria, such as tags,\n      attributes, or IDs.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#FilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
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"com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
"type": "union",
"members": {
"ActiveDirectoryIdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
"traits": {
"smithy.api#documentation": " An object that details an Active Directory identity provider. "
}
}
},
"traits": {
"smithy.api#documentation":
" Details about an identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Settings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
"traits": {
"smithy.api#documentation": " An object that details the registered identity providers product
related configuration\n settings such as the subnets to provision VPC endpoints. ",
"smithy.api#required":
{}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of an identity provider. ",
"smithy.api#required": {}
}
},

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            "FailureMessage": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The failure message associated with an identity provider.</p>"
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            }
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        "traits": {
            "smithy.api#documentation":
 "<p>Describes an identity provider.</p>"
        }
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    "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary"
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    "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary": {
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        "members": {
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status
 of an EC2 instance resource.</p>",
                    "smithy.api#required": {}
                }
            },
            "Products": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>A list of provided user-based subscription products.</p>",
                    "smithy.api#required": {}
                }
            },
            "LastStatusCheckDate": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The date of the last status check.</p>"
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```
            }
          },
          "StatusMessage": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The status message for an EC2 instance.</p>"
            }

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        },
        "traits": {
          "smithy.api#documentation": "<p>Describes an EC2 instance providing user-based subscriptions.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary"
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      "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary": {
        "type": "structure",
        "members": {
          "Username": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
              "smithy.api#required": {}
            }
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          "InstanceId": {
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            "traits":
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              "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
              "smithy.api#required": {}
            }
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          "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
              "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
              "smithy.api#required": {}
            }
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          "Status": {
            "target": "smithy.api#String",
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"traits": {
"smithy.api#documentation": " The status of a user associated with an EC2 instance. ",
"smithy.api#required": {}
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for users of an EC2 instance. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"AssociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was associated with an EC2 instance. "
}
},
"DisassociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was disassociated from an EC2 instance. "
}
}

},
"traits": {
"smithy.api#documentation": " Describes users of an EC2 instance providing user-based subscriptions. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
}
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"com.amazonaws.licensemanagerusersubscriptions#InternalServerException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}

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        },
        "traits": {
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            "smithy.api#error": "server"
        }
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    "com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
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            },
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                "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
            },
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                "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"

},
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                "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
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                "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
            }
        ],
        "traits": {
            "aws.api#service": {
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"sdkId": "License Manager User Subscriptions",
"arnNamespace": "license-manager-user-subscriptions",
"cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
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"aws.auth#sigv4": {
"name": "license-manager-user-subscriptions"
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"aws.protocols#restJson1": {},
"smithy.api#cors": {
"additionalAllowedHeaders": [
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"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",
"x-api-key",
"authorization",
"x-amz-date",
"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"

]
},
"smithy.api#documentation": " With License Manager, you can create user-based subscriptions to utilize licensed software with\n a per user subscription fee on Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager User Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,

"documentation": "When true, use the dual-stack
endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the
configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
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"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
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"argv": [
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"ref": "Endpoint"
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"argv": [
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"ref": "UseFIPS"
},

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                        "argv": [
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                    }
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                "type": "error"
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                "conditions": [],
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                    "properties": {},
                    "headers": {}
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                "type": "endpoint"
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            "type": "tree",

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                        "ref": "UseFIPS"
                      },
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                    "argv": [
                      {
                        "ref": "UseDualStack"

                     },
                      true
                    ]
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                        "argv": [
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                          {
                            "fn": "getAttr",

"argv": [
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                                    "ref": "PartitionResult"
```

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                                    },
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                                    "supportsDualStack"
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                "rules": [
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"conditions": [],
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fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                            "properties": {},
                            "headers": {}
                        },
                        "type": "endpoint"
                    }
                ]
            },
            {
                "conditions": [],
                "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
                 "type": "error"
            }
        ]
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        "conditions": [
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                    {
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                      "argv": [
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                    }
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                  "type": "tree",

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                          "fn": "booleanEquals",
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                              "argv": [
                                {
                                  "ref": "PartitionResult"
                                },
                                "supportsFIPS"

                          ]
                            }
                          ]
                        }
                      ],
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                          "conditions": [],
                          "endpoint": {
                            "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                            "properties": {},
                            "headers": {}

            },
                          "type": "endpoint"
                        }
                      ]
                    },
                    {
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"type": "error"
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"ref": "UseDualStack"
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{

"fn": "getAttr",
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"ref": "PartitionResult"
},
"supportsDualStack"
]
}
]
}
],
"type": "tree",
"rules": [
{

"conditions": [],
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"properties": {},

"headers": {}
},
"type": "endpoint"
}
]
},
{
"conditions": [],
"error": "DualStack is enabled but this partition does
not support DualStack",
"type": "error"
}
]
},
{
"conditions": [],
"endpoint": {
"url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
"properties": {},
"headers": {}
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"type": "endpoint"
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"conditions":
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"error": "Invalid Configuration: Missing Region",
"type": "error"
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"smithy.rules#endpointTests": {
"testCases": [
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,

"UseDualStack": true
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"documentation":
"For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
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"Region": "us-east-1",
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"Region": "us-east-1",
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"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false
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{
"documentation": "For region cn-north-1 with
FIPS enabled and DualStack enabled",
"expect": {

"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
}
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"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
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"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
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}
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}
},
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}
},
{
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"expect": {
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}
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"params": {
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"UseFIPS": false,
"UseDualStack": false
}
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{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
}
},

"params": {
"Region": "us-gov-east-1",
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"UseDualStack": false
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with FIPS disabled and DualStack enabled",
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"params": {
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"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
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"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect":
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"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
}
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"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
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"params": {
"Region": "us-iso-east-1",
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"url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
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"UseDualStack": false
}
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}
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"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
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"endpoint": {
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}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}

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"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true

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            }
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        {
            "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
                }
            },
             "params": {
                "Region": "us-isob-east-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://example.com"
                }
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
        },
        {

"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://example.com"
                }
            },
            "params": {
                "UseFIPS": false,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "For custom endpoint with fips enabled and dualstack disabled",
            "expect": {
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
            },
```

```
                "params": {
                    "Region": "us-east-1",
                     "UseFIPS": true,
                    "UseDualStack": false,
                    "Endpoint": "https://example.com"
                }
            },
            {
                "documentation": "For custom endpoint with fips disabled and dualstack enabled",
                "expect": {
                    "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
                },
                "params": {
                    "Region": "us-east-1",
                    "UseFIPS": false,
                    "UseDualStack": true,
                    "Endpoint": "https://example.com"
                }
            },
            {
                "documentation": "Missing region",
                "expect": {
                     "error": "Invalid Configuration: Missing Region"
                }
            }
        ],
        "version": "1.0"
    }
  }
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {
  "type": "operation",
  "input": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
  },
  "output": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
  },
  "errors": [
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
```

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            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the identity providers for user-based subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/ListIdentityProviders"
            },
            "smithy.api#paginated":
{
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "IdentityProviderSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest": {
        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse":
```

```
{
        "type": "structure",
        "members": {
            "IdentityProviderSummaries": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the list identity providers operation.</p>",
                    "smithy.api#required": {}
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListInstances": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest"
         },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
```

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        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the EC2 instances providing user-based subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/instance/ListInstances"
            },
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "InstanceSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest": {
        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                 "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse": {
        "type":
 "structure",
        "members": {
            "InstanceSummaries": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the list instances operation.</p>"
```

```
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the user-based subscription products available from an identity
provider.</p>",
        "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/user/ListProductSubscriptions"
```

```
            },
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "ProductUserSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest": {
        "type": "structure",
        "members": {
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name
of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
                "traits": {

 "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those that match
one or\n      more sets of key-value pairs that you specify.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
```

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse": {
      "type": "structure",
      "members": {
        "ProductUserSummaries": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList",
          "traits": {
            "smithy.api#documentation": "<p>Metadata that describes the list product subscriptions
operation.</p>"
          }
        },

     "NextToken": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
          "target":
 "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
```

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            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists user associations for an identity provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/ListUserAssociations"
            },
            "smithy.api#paginated":
{
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "InstanceUserSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest": {
        "type": "structure",
        "members": {
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity
provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
                "traits": {
```

"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse": {
"type": "structure",
"members": {
"InstanceUserSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list user association operation. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary": {
"type": "structure",
"members": {

"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider of the user. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},

"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}

},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of a product for a user. ",
"smithy.api#required": {}
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for a product for a user. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"SubscriptionStartDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The
start date of a subscription. "
}
},
"SubscriptionEndDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The end date of a subscription. "
}
}
},
"traits": {
"smithy.api#documentation": " The summary of the user-based subscription products for a user. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
"type": "list",
"member": {

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        "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
    }
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
     },
    "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
         },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Registers an identity provider for user-based subscriptions.</p>",
        "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/identity-provider/RegisterIdentityProvider"
        },
        "smithy.api#idempotent": {}
    }
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest": {
    "type": "structure",
    "members": {
        "IdentityProvider": {
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"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Settings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings such as the\n subnets to provision VPC endpoints. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the results of an identity provider operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The resource couldn't be found. ",
"smithy.api#error": "client",
"smithy.api#httpError": 404

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        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
        "type": "string",

    "traits": {
            "smithy.api#length": {
                "min": 5,
                "max": 200
            },
            "smithy.api#pattern": "^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request failed because a service quota is exceeded.</p>",
            "smithy.api#error": "client"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#Settings": {
        "type": "structure",
        "members": {
            "Subnets": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
                "traits": {
                    "smithy.api#documentation":
 "<p>The subnets defined for the registered identity provider.</p>",
                    "smithy.api#length": {
                        "min": 1
                    },
                    "smithy.api#required": {}
                }
            },
            "SecurityGroupId": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
                "traits": {
                    "smithy.api#documentation": "<p>A security group ID that allows inbound TCP port 1688
communication between resources in\n      your VPC and the VPC endpoint for activation servers.</p>",
                    "smithy.api#required": {}
                }
            }
        },
```

"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings such as the\n subnets to provision VPC endpoints, and the security group ID that
is associated with the VPC\n endpoints. The security group should permit inbound TCP port 1688 communication from resources\n in the VPC. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Starts a product subscription for a user with the specified identity provider. \n <note>\n Your estimated bill for charges on the number of users and related costs will take 48\n hours to appear for billing periods that haven't closed (marked as Pending billing status) in Amazon Web Services Billing.
For more information, see Viewing your\n monthly charges in the Amazon Web Services Billing User Guide. \n </note>",
"smithy.api#http": {
"code": 200,

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            "method": "POST",
            "uri": "/user/StartProductSubscription"
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
        "type": "structure",
        "members": {
          "Username": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
              "smithy.api#required": {}
            }
          },
          "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
             "traits": {
              "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
              "smithy.api#required": {}
            }
          },
          "Product": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
              "smithy.api#required": {}
            }
          },
          "Domain": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The domain name of the user.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse": {
        "type": "structure",
         "members": {
          "ProductUserSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the start product subscription
operation.</p>",
              "smithy.api#required": {}
            }
          }
```

```
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"

    },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Stops a product subscription for a user with the specified identity
provider.</p>",
             "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/StopProductSubscription"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
        "type": "structure",
        "members": {
            "Username": {
```

"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
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"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required":
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"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
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"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
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"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse": {
"type": "structure",
"members": {
"ProductUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
"traits": {
"smithy.api#documentation":
" Metadata that describes the start product subscription operation. ",
"smithy.api#required": {}
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"com.amazonaws.licensemanagerusersubscriptions#StringList": {
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"member": {
"target": "smithy.api#String"
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"com.amazonaws.licensemanagerusersubscriptions#Subnet": {
"type": "string",
"traits": {
"smithy.api#pattern": "subnet-[a-z0-9]{8,17}"
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"com.amazonaws.licensemanagerusersubscriptions#Subnets": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnet"
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"com.amazonaws.licensemanagerusersubscriptions#ThrottlingException": {
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"members": {
"message": {

"target": "smithy.api#String"
}
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"traits": {
"smithy.api#documentation": " The request was denied because of request throttling. Retry the request. ",
"smithy.api#error": "client"
}
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"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings": {
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"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
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"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
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"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
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"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
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        "traits": {
            "smithy.api#documentation": "<p>Updates additional product configuration settings for the registered
identity\n      provider.</p>",
            "smithy.api#http": {
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                "method": "POST",
                "uri": "/identity-provider/UpdateIdentityProviderSettings"
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            "smithy.api#idempotent": {}
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                "traits": {
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                    "smithy.api#required": {}
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            "UpdateSettings": {
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                "traits": {
                    "smithy.api#documentation": "<p>Updates the registered identity providers product related
configuration settings. You can\n      update any combination of settings in a single operation such as the:</p>\n
<ul>\n            <li>\n              <p>Subnets which you want to add to provision VPC endpoints.</p>\n            </li>\n
          <li>\n              <p>Subnets which you want to remove the VPC endpoints from.</p>\n            </li>\n
<li>\n              <p>Security group ID which permits traffic to the VPC endpoints.</p>\n            </li>\n        </ul>",
                    "smithy.api#required": {}
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    "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
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        "members": {
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                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
                "traits": {
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             "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of one or more subnets in which License Manager will
create a VPC endpoint for products that\n      require connectivity to activation servers.</p>",
                    "smithy.api#required": {}
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            "RemoveSubnets": {
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                "traits": {
                    "smithy.api#documentation": "<p>The ID of one or more subnets to remove.</p>",
                    "smithy.api#required": {}
                }
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                "traits": {
                    "smithy.api#documentation": "<p>A security group ID
 that allows inbound TCP port 1688 communication between resources in\n      your VPC and the VPC endpoints for
activation servers.</p>"
                }
            }
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        "traits": {
            "smithy.api#documentation": "<p>Updates the registered identity providers product related configuration
settings such as\n      the subnets to provision VPC endpoints.</p>"
        }
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    "com.amazonaws.licensemanagerusersubscriptions#ValidationException": {
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        "members": {
            "message": {
                "target": "smithy.api#String"
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        "traits": {
            "smithy.api#documentation": "<p>A parameter is not valid.</p>",
            "smithy.api#error": "client"
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        "id": "HttpResponseCodeSemantics",
        "namespace": "*"
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        "id": "PaginatedTrait",
        "namespace": "*"
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        "namespace": "*"
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        "namespace": "*"
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  "shapes": {
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      "version": "2018-08-01",
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"target": "com.amazonaws.licensemanager#CheckoutLicense"
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"target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

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"target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
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"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
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"target": "com.amazonaws.licensemanager#GetServiceSettings"
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"target": "com.amazonaws.licensemanager#ListDistributedGrants"
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"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
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"target": "com.amazonaws.licensemanager#ListLicenses"
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"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
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      "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
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    {
      "target": "com.amazonaws.licensemanager#UntagResource"
    },
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      "target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
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    {
      "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
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      "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
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      "target": "com.amazonaws.licensemanager#UpdateServiceSettings"
    }
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"traits": {
"aws.api#service": {
"sdkId": "License Manager",
"arnNamespace": "license-manager",
"cloudFormationName": "LicenseManager",
"cloudTrailEventSource": "licensemanager.amazonaws.com",
"endpointPrefix": "license-manager"
},
"aws.auth#sigv4": {
"name": "license-manager"
},
"aws.protocols#awsJson1_1": {},
"smithy.api#documentation": " License Manager makes it easier to manage licenses from software vendors across multiple \n Amazon Web Services accounts and on-premises servers. ",
"smithy.api#title": "AWS License Manager",
"smithy.api#xmlNamespace": {
"uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
},
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
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"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",

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                            "argv": [
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                        }
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                    "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
                    "type": "error"
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                            "argv": [
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                                    "ref": "UseDualStack"
                                },
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                        }
                    ],
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                    "type": "error"
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"UseFIPS"

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                                        "ref": "PartitionResult"
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                                "argv": [
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                                        "ref": "PartitionResult"
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"supportsDualStack"

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                    "properties": {},
                    "headers": {}

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                "type": "endpoint"
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both",
        "type": "error"
    }
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                "argv": [
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                  "supportsFIPS"
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            ]
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              "headers": {}
            },
            "type": "endpoint"
          }
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        "conditions": [],
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partition does not support FIPS",
        "type": "error"
      }
    ]
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        "argv": [
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            "ref": "UseDualStack"
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                            "argv": [
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                                "ref": "PartitionResult"
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"supportsDualStack"
                            ]
                          }
                        ]
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manager.{Region}.{PartitionResult#dualStackDnsSuffix}",
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                          "headers": {}

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                        "type": "endpoint"
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                    ]
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                    "type": "error"
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    "type": "error"
}
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"smithy.rules#endpointTests": {
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            "documentation": "For region af-south-1 with FIPS disabled and DualStack disabled",
            "expect": {
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{
                    "url": "https://license-manager.af-south-1.amazonaws.com"
                }
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            "params": {
                "Region": "af-south-1",
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                "UseDualStack": false
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            "expect": {
                "endpoint": {
                    "url": "https://license-manager.ap-east-1.amazonaws.com"
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            "params": {
                "Region": "ap-east-1",
                "UseFIPS": false,
                "UseDualStack": false
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            "expect": {
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        "expect": {
            "endpoint": {
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        "params": {
            "Region": "ap-northeast-2",
            "UseFIPS": false,
            "UseDualStack": false
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        "expect": {
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            "Region": "ap-northeast-3",
            "UseFIPS": false,
            "UseDualStack": false
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            "UseFIPS": false,
            "UseDualStack": false
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{
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"params": {
"Region": "ap-southeast-1",
"UseFIPS": false,
"UseDualStack": false
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"params": {
"Region": "ap-southeast-2",
"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
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"endpoint": {
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"params": {
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"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region ca-central-1 with FIPS disabled and DualStack disabled",
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            "UseFIPS": false,
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            "Region": "eu-west-3",
            "UseFIPS": false,

"UseDualStack": false
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            }
          },
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              "UseDualStack": false
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              "UseDualStack": false
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            "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
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              "endpoint": {
                "url": "https://license-manager.us-east-1.amazonaws.com"
              }
            },
            "params": {
              "Region": "us-east-1",
              "UseFIPS": false,
              "UseDualStack": false
            }

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          {
            "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager-fips.us-east-1.amazonaws.com"
              }
            },
            "params": {
              "Region": "us-east-1",
              "UseFIPS": true,
              "UseDualStack": false
            }
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          {
            "documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",
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"expect": {
"endpoint": {
"url": "https://license-manager.us-east-2.amazonaws.com"
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},
"params": {
"Region": "us-east-2",
"UseFIPS": false,
"UseDualStack": false
}
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{
"documentation": "For region us-east-2 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-east-2.amazonaws.com"
}
},
"params": {
"Region": "us-east-2",
"UseFIPS": true,
"UseDualStack": false
}
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{
"documentation": "For region
us-west-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-west-1.amazonaws.com"
}
},
"params": {
"Region": "us-west-1",
"UseFIPS": false,
"UseDualStack": false
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{
"documentation": "For region us-west-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-west-1.amazonaws.com"
}
},
"params": {

"Region": "us-west-1",
"UseFIPS": true,
"UseDualStack": false
}
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{
"documentation": "For region us-west-2 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-west-2.amazonaws.com"
}
},
"params": {
"Region": "us-west-2",
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"UseDualStack": false
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"documentation": "For region us-west-2 with FIPS enabled and DualStack disabled",

"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-west-2.amazonaws.com"
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"params": {
"Region": "us-west-2",
"UseFIPS": true,
"UseDualStack": false
}
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"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {
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"url": "https://license-manager-fips.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,

"UseDualStack": true
}
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"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",

"expect": {
"endpoint": {
"url": "https://license-manager.us-east-1.api.aws"
}
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"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
}
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{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url":
"https://license-manager.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
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"documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
}
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"params": {
"Region": "cn-northwest-1",
"UseFIPS": false,
"UseDualStack": false

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{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",

"UseFIPS": true,
"UseDualStack": true
}
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{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
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"url": "https://license-manager-fips.cn-north-1.amazonaws.com.cn"
}
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"params": {
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"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
}
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{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {

"url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
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"documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-gov-west-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-west-1",
"UseFIPS": false,
"UseDualStack": false
}
},
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"documentation":
"For region us-gov-west-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-gov-west-1.amazonaws.com"
}
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"params": {
"Region": "us-gov-west-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-gov-east-1.api.aws"
}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": true

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            }
        },
        {
            "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.us-gov-east-1.api.aws"
                }
            },
            "params": {
                "Region": "us-gov-east-1",
                "UseFIPS": false,
                "UseDualStack": true
            }
        },
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            "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack
disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
                }
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": true,
                 "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
                }
            },
            "params": {
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"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
}
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{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled
but this partition does not support DualStack"
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"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": true
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{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},

{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
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"Region": "us-isob-east-1",
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"UseDualStack": true
}
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"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
}

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                    },

          "params": {
                        "Region": "us-isob-east-1",
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                        "UseDualStack": false
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                },
                {
                    "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
                    "expect": {
                        "error": "DualStack is enabled but this partition does not support DualStack"
                    },
                    "params": {
                        "Region": "us-isob-east-1",
                        "UseFIPS": false,
                        "UseDualStack": true
                    }
                },
                {
                    "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",

    "expect": {
                        "endpoint": {
                            "url": "https://example.com"
                        }
                    },
                    "params": {
                        "Region": "us-east-1",
                        "UseFIPS": false,
                        "UseDualStack": false,
                        "Endpoint": "https://example.com"
                    }
                },
                {
                    "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",
                    "expect": {
                        "endpoint": {
                            "url": "https://example.com"
                        }
                    },
                    "params": {
                        "UseFIPS": false,

        "UseDualStack": false,
                        "Endpoint": "https://example.com"
                    }
```

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                },
                {
                    "documentation": "For custom endpoint with fips enabled and dualstack disabled",
                    "expect": {
                        "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
                    },
                    "params": {
                        "Region": "us-east-1",
                        "UseFIPS": true,
                        "UseDualStack": false,
                        "Endpoint": "https://example.com"
                    }
                },
                {
                    "documentation": "For custom endpoint with fips disabled and dualstack enabled",
                    "expect": {
                        "error":
"Invalid Configuration: Dualstack and custom endpoint are not supported"
                    },
                    "params": {
                        "Region": "us-east-1",
                        "UseFIPS": false,
                        "UseDualStack": true,
                        "Endpoint": "https://example.com"
                    }
                },
                {
                    "documentation": "Missing region",
                    "expect": {
                        "error": "Invalid Configuration: Missing Region"
                    }
                }
            ],
            "version": "1.0"
        }
    }
},
"com.amazonaws.licensemanager#AcceptGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#AcceptGrantRequest"

},
    "output": {
        "target": "com.amazonaws.licensemanager#AcceptGrantResponse"
    },
    "errors": [
        {
```

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            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"

}
    ],
    "traits": {
        "smithy.api#documentation": "<p>Accepts the specified grant.</p>"
    }
  },
  "com.amazonaws.licensemanager#AcceptGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
  },
  "com.amazonaws.licensemanager#AcceptGrantResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant
```

ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#AccessDeniedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {

"code": "ServiceAccessDenied",
"httpResponseCode": 401
},
"smithy.api#documentation": " Access to resource denied. ",
"smithy.api#error": "client",
"smithy.api#httpError": 401
}
},
"com.amazonaws.licensemanager#ActivationOverrideBehavior": {
"type": "enum",
"members": {
"DISTRIBUTED_GRANTS_ONLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DISTRIBUTED_GRANTS_ONLY"
}
},
"ALL_GRANTS_PERMITTED_BY_ISSUER": {

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            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "ALL_GRANTS_PERMITTED_BY_ISSUER"
            }
        }
    }
  },
  "com.amazonaws.licensemanager#AllowedOperation": {

  "type": "enum",
    "members": {
        "CREATE_GRANT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "CreateGrant"
            }
        },
        "CHECKOUT_LICENSE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "CheckoutLicense"
            }
        },
        "CHECKOUT_BORROW_LICENSE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "CheckoutBorrowLicense"
            }
        },
        "CHECK_IN_LICENSE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "CheckInLicense"
            }
        },
        "EXTEND_CONSUMPTION_LICENSE":
{
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "ExtendConsumptionLicense"
            }
        },
        "LIST_PURCHASED_LICENSES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "ListPurchasedLicenses"
            }
        },
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"CREATE_TOKEN": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CreateToken"
}
}
}
},
"com.amazonaws.licensemanager#AllowedOperationList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#AllowedOperation"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max":
7
}
}
},
"com.amazonaws.licensemanager#Arn": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 2048
},
"smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
}
},
"com.amazonaws.licensemanager#ArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
}
},
"com.amazonaws.licensemanager#AuthorizationException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError":

{
"code": "AuthorizationFailure",
"httpResponseCode": 403
},
"smithy.api#documentation": " The Amazon Web Services user account does not have permission to perform the action. Check the IAM\n policy associated with this account. ",
"smithy.api#error": "client",
"smithy.api#httpError": 403
}
},
"com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
"type": "structure",
"members": {
"LastRunTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time that automated discovery last ran. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes automated discovery. "
}
},

"com.amazonaws.licensemanager#Boolean": {
"type": "boolean",
"traits": {
"smithy.api#default": false
}
},
"com.amazonaws.licensemanager#BorrowConfiguration": {
"type": "structure",
"members": {
"AllowEarlyCheckIn": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether early check-ins are allowed. ",
"smithy.api#required": {}
}
},
"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the borrow configuration, in minutes. ",
"smithy.api#required": {}
}
}

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},
        "traits": {
            "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#BoxBoolean": {
        "type": "boolean"
    },
    "com.amazonaws.licensemanager#BoxInteger": {
        "type": "integer"
    },
    "com.amazonaws.licensemanager#BoxLong": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#CheckInLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"

     },
            {
                "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
```

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks in the specified license. Check in a license when it is no longer
in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseRequest":
{
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",
                    "smithy.api#required": {}
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License beneficiary.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicense":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {
                "target":
"com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
        "type": "structure",
        "members":
{
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The license must
use the borrow consumption configuration.</p>",
                    "smithy.api#required": {}
                }
```

```
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements. Partial checkouts are not supported.</p>",
                    "smithy.api#required": {}
                }
            },
            "DigitalSignatureMethod": {
                "target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
                "traits": {
                    "smithy.api#documentation": "<p>Digital signature method. The possible
 value is JSON Web Signature (JWS) algorithm PS384.\n        For more information, see <a
href=\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital Signature with RSASSA-PSS</a>.</p>",
                    "smithy.api#required": {}
                }
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Node ID.</p>"
                }
            },
            "CheckoutMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about constraints.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation":
 "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
```

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},
"EntitlementsAllowed":
{
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " Allowed license entitlements. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"SignedToken": {
"target": "com.amazonaws.licensemanager#SignedToken",
"traits": {
"smithy.api#documentation": " Signed token. "
}
},
"IssuedAt": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout
is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout expires. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about constraints. "
}
}
},

"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target":
"com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks out the specified license. \n <note>\n If the
account that created the license is the same that is performing the check out, you must\n specify the account

as the beneficiary. \n </note>"
  }
},
"com.amazonaws.licensemanager#CheckoutLicenseRequest": {
  "type": "structure",
  "members": {
    "ProductSKU": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": " Product
SKU. ",
        "smithy.api#required": {}
      }
    },
    "CheckoutType": {
      "target": "com.amazonaws.licensemanager#CheckoutType",
      "traits": {
        "smithy.api#documentation": " Checkout type. ",
        "smithy.api#required": {}
      }
    },
    "KeyFingerprint": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": " Key fingerprint identifying the license. ",
        "smithy.api#required": {}
      }
    },
    "Entitlements": {
      "target": "com.amazonaws.licensemanager#EntitlementDataList",
      "traits": {
        "smithy.api#documentation": " License entitlements. ",

"smithy.api#required": {}
      }
    },
    "ClientToken": {
      "target": "com.amazonaws.licensemanager#ClientToken",
      "traits": {
        "smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request. ",
        "smithy.api#required": {}
      }
    },
    "Beneficiary": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": " License beneficiary. "

```
            }
        },
        "NodeId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
            }
        }
    },
    "traits": {

   "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
    "type": "structure",
    "members": {
        "CheckoutType": {
            "target": "com.amazonaws.licensemanager#CheckoutType",
            "traits": {
                "smithy.api#documentation": "<p>Checkout type.</p>"
            }
        },
        "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License consumption token.</p>"
            }
        },
        "EntitlementsAllowed": {
            "target": "com.amazonaws.licensemanager#EntitlementDataList",
            "traits": {
                "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
            }
        },
         "SignedToken": {
            "target": "com.amazonaws.licensemanager#SignedToken",
            "traits": {
                "smithy.api#documentation": "<p>Signed token.</p>"
            }
        },
        "NodeId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
            }
        },
        "IssuedAt": {
```

"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and
time at which the license checkout expires. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the checkout license. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutType": {
"type": "enum",
"members": {
"PROVISIONAL": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PROVISIONAL"
}
},
"PERPETUAL": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PERPETUAL"
}
}
}
},
"com.amazonaws.licensemanager#ClientRequestToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 36
}
}

```
    },
    "com.amazonaws.licensemanager#ClientToken": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 2048
            },
            "smithy.api#pattern": "^\\S+$"
        }
    },
    "com.amazonaws.licensemanager#ConflictException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "ConflictException",
                "httpResponseCode":
 409
            },
            "smithy.api#documentation": "<p>There was a conflict processing the request. Try your request
again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 409
        }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummary": {
        "type": "structure",
        "members": {
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
                }
            },
            "ConsumedLicenses": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
                }
            }
        },
```

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"traits": {
            "smithy.api#documentation": "<p>Details about license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
        }
    },
    "com.amazonaws.licensemanager#ConsumptionConfiguration": {
        "type": "structure",
        "members": {
            "RenewType": {
                "target": "com.amazonaws.licensemanager#RenewType",
                "traits": {
                    "smithy.api#documentation": "<p>Renewal frequency.</p>"
                }
            },
            "ProvisionalConfiguration": {
                "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
                 }
            },
            "BorrowConfiguration": {
                "target": "com.amazonaws.licensemanager#BorrowConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
```

```
            {
                "target":
 "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a grant for the specified license. A grant shares the use of
license\n        entitlements with a specific Amazon Web Services account, an organization, or an\n
organizational unit (OU). For more
 information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-
licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantRequest": {
        "type": "structure",
        "members": {
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>",
                    "smithy.api#required": {}

    }
            },
            "LicenseArn": {
```

"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Principals": {
"target": "com.amazonaws.licensemanager#PrincipalArnList",
"traits": {
"smithy.api#documentation": " The grant principals. You can specify one of the following as an Amazon Resource Name\n (ARN): \n \n \n An Amazon Web Services account, which includes only the account specified. \n \n \n \n \n An organizational unit (OU), which includes all accounts in the OU. \n \n \n \n \n An organization, which will include all accounts across your organization. \n \n ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations for the grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},

"com.amazonaws.licensemanager#CreateGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},

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            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersion":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
             },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
```

```
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified grant. For more information,
see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-
licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersionRequest": {
        "type": "structure",
        "members": {
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",

  "smithy.api#required": {}
                }
            },
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>"
                }
            },
            "AllowedOperations": {
                "target": "com.amazonaws.licensemanager#AllowedOperationList",
                "traits": {
                    "smithy.api#documentation": "<p>Allowed operations for the grant.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                 "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "StatusReason": {
                "target": "com.amazonaws.licensemanager#StatusReasonMessage",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status reason.</p>"
```

```
            }
        },
        "SourceVersion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Current version of the grant.</p>"
            }
        },
        "Options": {
            "target": "com.amazonaws.licensemanager#Options",
            "traits": {
                "smithy.api#documentation": "<p>The options specified for the grant.</p>"
            }
        }
    },
     "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CreateGrantVersionResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>New version of the grant.</p>"
            }
        }
    },
    "traits":
{
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicense": {
    "type": "operation",
```

```
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a license.</p>"
    }
},
"com.amazonaws.licensemanager#CreateLicenseConfiguration": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license configuration.</p>\n        <p>A license configuration is an abstraction of a customer license agreement that can be\n        consumed and enforced by License Manager. Components include specifications for the license\n        type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n        Dedicated Instance, Dedicated Host, or all of these), license affinity  to host (how long a \n        license must be associated with a host), and the number of licenses purchased and used.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Description of the license configuration.</p>"
                }
            },
            "LicenseCountingType": {
                "target": "com.amazonaws.licensemanager#LicenseCountingType",
                "traits": {
                    "smithy.api#documentation": "<p>Dimension used to track the license inventory.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
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"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether hard or soft license enforcement is used. Exceeding a hard limit\n blocks the launch of new instances. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules \n vary by dimension, as follows. \n \n \n \n <code>Cores</code> dimension: <code>allowedTenancy</code> |\n <code>licenseAffinityToHost</code> |\n <code>maximumCores</code> | <code>minimumCores</code>\n \n \n \n \n <code>Instances</code> dimension: <code>allowedTenancy</code> | \n <code>maximumCores</code> | <code>minimumCores</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code> |\n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n
\n <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n <code>licenseAffinityToHost</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code>\n \n \n \n \n <code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n <code>honorVcpuOptimization</code> | \n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n The unit for <code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n <code>True</code> and <code>False</code>. "
}
},

"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the license configuration. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "

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            }
          },
          "ProductInformationList": {
            "target": "com.amazonaws.licensemanager#ProductInformationList",
            "traits": {
              "smithy.api#documentation": "<p>Product information.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse":
{
        "type": "structure",
        "members": {
          "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
           },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new license conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {

                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource you are converting
the license type for.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting
from. \n\n        For the structure of the source license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            },
            "DestinationLicenseContext":
 {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting to.
For the structure of the destination license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
```

```
    }
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
    "type": "structure",
    "members": {
        "LicenseConversionTaskId": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",

   "traits": {
                "smithy.api#documentation": "<p>The ID of the created license type conversion task.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
         },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
```

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a report generator. "
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"ReportGeneratorName":
{
"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports to generate. The following report types an be generated: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}

}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " Defines the type of license configuration the report generator tracks. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",

"traits": {
"smithy.api#documentation": " Unique,
case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the new report
generator. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseRequest": {
"type": "structure",
"members": {
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. ",
"smithy.api#required": {}
}

},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product
name. ",
"smithy.api#required": {}
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. ",
"smithy.api#required": {}
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#Issuer",
"traits": {
"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region for the license. ",
"smithy.api#required": {}

}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-
UTC format. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " License beneficiary. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},

```
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseVersion": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
    }
```

```
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target":
"com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "LicenseName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License name.</p>",
            "smithy.api#required": {}
          }
        },
        "ProductName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product name.</p>",
            "smithy.api#required": {}
          }
        },
        "Issuer": {
          "target": "com.amazonaws.licensemanager#Issuer",
          "traits":
{
            "smithy.api#documentation": "<p>License issuer.</p>",
            "smithy.api#required": {}
          }
        },
        "HomeRegion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Home Region of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "Validity": {
          "target": "com.amazonaws.licensemanager#DatetimeRange",
          "traits": {
            "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
            "smithy.api#required": {}
          }
```

```
            },
            "LicenseMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license.</p>"
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>",
                    "smithy.api#required": {}
                }
            },
            "ConsumptionConfiguration": {
                "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional
configuration for workloads\n         running with continuous connectivity. Choose a borrow configuration for
workloads with offline\n         usage.</p>",
                    "smithy.api#required": {}
                }
            },

   "Status": {
                "target": "com.amazonaws.licensemanager#LicenseStatus",
                "traits": {
                    "smithy.api#documentation": "<p>License status.</p>",
                    "smithy.api#required": {}
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the license.</p>"
                }
            }
        },
        "traits": {
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"smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": " License ARN. "
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": " New version of the license. "
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseStatus",
                "traits": {
                    "smithy.api#documentation": " License status. "
                }
            }
        },
        "traits": {
            "smithy.api#output":
{}
        }
    },
    "com.amazonaws.licensemanager#CreateToken": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateTokenRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateTokenResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },

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            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },

        {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a long-lived token.</p>\n        <p>A refresh token is a JWT token used to get an access token. With an access token,\n          you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n          call License Manager to manage the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateTokenRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits":
 {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n          JWT token.</p>",
                    "smithy.api#required": {}
                }
            },
            "RoleArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n        License Manager does not check whether the roles are in use.</p>"
                }
            },
            "ExpirationInDays": {
                "target": "com.amazonaws.licensemanager#Integer",
                "traits": {
                    "smithy.api#documentation": "<p>Token expiration, in days, counted from token creation. The default is 365 days.</p>"
                }
```

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            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Data specified by the caller to be included in the JWT token. The
data is mapped\n          to the amr claim of the JWT token.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Idempotency token, valid for 10 minutes.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateTokenResponse": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",

                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
            "TokenType": {
                "target": "com.amazonaws.licensemanager#TokenType",
                "traits": {
                    "smithy.api#documentation": "<p>Token type.</p>"
                }
            },
            "Token": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DateTime": {
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    "type": "timestamp"
  },
  "com.amazonaws.licensemanager#DatetimeRange": {
    "type": "structure",
    "members": {
      "Begin": {
          "target": "com.amazonaws.licensemanager#ISO8601DateTime",
        "traits": {
          "smithy.api#documentation": "<p>Start of the time range.</p>",
          "smithy.api#required": {}
        }
      },
      "End": {
        "target": "com.amazonaws.licensemanager#ISO8601DateTime",
        "traits": {
          "smithy.api#documentation": "<p>End of the time range.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC format.</p>"
    }
  },
  "com.amazonaws.licensemanager#DeleteGrant": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
     },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
      },
      {
```

"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes
the specified grant. "
}
},
"com.amazonaws.licensemanager#DeleteGrantRequest": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " The Status reason for the delete request. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the
grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}

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            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
"<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"

},
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
```

"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license configuration. \n You cannot delete a license configuration that is in use. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
"type": "structure",
"members":
{
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

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            "smithy.api#documentation": "<p>ID of the license configuration.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
      "type": "structure",
      "members": {},
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
       },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target": "com.amazonaws.licensemanager#ValidationException"
```

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified report generator.</p>\n        <p>This action deletes the report generator, which stops it from generating future reports.\n        The action cannot be reversed. It has no effect on the previous reports from this generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to be deleted.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {

 "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the license.</p>",
                    "smithy.api#required":
```

{}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseResponse": {
"type": "structure",
"members": {
"Status": {
"target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"DeletionDate": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date when the license is deleted. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#DeleteToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"

```
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },

        {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteTokenRequest": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteTokenResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}

      }
    },
    "com.amazonaws.licensemanager#DigitalSignatureMethod": {
        "type": "enum",
        "members": {
            "JWT_PS384": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "JWT_PS384"
                }
```

```
            }
        }
    },
    "com.amazonaws.licensemanager#Entitlement": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement name.</p>",
                    "smithy.api#required": {}
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement resource. Use only
if the unit is None.</p>"
                }
            },
            "MaxCount": {
                "target": "com.amazonaws.licensemanager#Long",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
                }
            },
            "Overage": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether overages are allowed.</p>"
                }
            },
            "Unit": {
                "target": "com.amazonaws.licensemanager#EntitlementUnit",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement unit.</p>",
                    "smithy.api#required": {}
                }
            },
            "AllowCheckIn": {
                "target":
"com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether check-ins are allowed.</p>"
                }
            }
        },
        "traits": {
```

"smithy.api#documentation": " Describes a resource entitled for use with a license. "
}
},
"com.amazonaws.licensemanager#EntitlementData": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement data name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement
data value. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementDataUnit",
"traits": {
"smithy.api#documentation": " Entitlement data unit. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Data associated with an entitlement resource. "
}
},
"com.amazonaws.licensemanager#EntitlementDataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#EntitlementData"
}
},
"com.amazonaws.licensemanager#EntitlementDataUnit": {
"type": "enum",
"members": {
"COUNT": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Count"
}
},

"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"SECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Seconds"
}
},
"MICROSECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Microseconds"
}
},
"MILLISECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Milliseconds"
}
},
"BYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes"
}
},
"KILOBYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes"
}
},
"MEGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes"
}
},
"GIGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes"
}
},

"TERABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabytes"
}
},
"BITS":
{
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits"
}
},
"KILOBITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobits"
}
},
"MEGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits"
}
},
"GIGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits"
}
},
"TERABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits"

}
},
"PERCENT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Percent"
}
},
"BYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes/Second"

```
            }
        },
        "KILOBYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobytes/Second"
            }
        },
        "MEGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabytes/Second"
            }
        },
        "GIGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "Gigabytes/Second"
            }
        },
        "TERABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabytes/Second"
            }
        },
        "BITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bits/Second"
            }
        },
        "KILOBITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobits/Second"
            }
        },
        "MEGABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue":
"Megabits/Second"
            }
        },
        "GIGABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
```

"smithy.api#enumValue": "Gigabits/Second"
}
},
"TERABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits/Second"
}
},
"COUNT_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Count/Second"
}
}
}
},
"com.amazonaws.licensemanager#EntitlementList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Entitlement"
}
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException":
{
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The entitlement is not allowed. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#EntitlementUnit": {
"type": "enum",
"members": {
"COUNT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Count"
}
},
"NONE": {
"target": "smithy.api#Unit",

"traits": {
"smithy.api#enumValue": "None"
}
},
"SECONDS":
{
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Seconds"
}
},
"MICROSECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Microseconds"
}
},
"MILLISECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Milliseconds"
}
},
"BYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes"
}
},
"KILOBYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes"
}
},
"MEGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes"
}
},
"GIGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes"
}
},
"TERABYTES": {

"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabytes"
}
},
"BITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits"
}
},
"KILOBITS": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Kilobits"
}
},
"MEGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits"
}
},
"GIGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits"
}
},
"TERABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits"
}
},
"PERCENT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Percent"
}
},
"BYTES_PER_SECOND": {
"target":
"smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes/Second"
}

```
            },
            "KILOBYTES_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Kilobytes/Second"
                }
            },
            "MEGABYTES_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Megabytes/Second"
                }
            },
            "GIGABYTES_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Gigabytes/Second"
                }
            },
            "TERABYTES_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {

"smithy.api#enumValue": "Terabytes/Second"
                }
            },
            "BITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Bits/Second"
                }
            },
            "KILOBITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Kilobits/Second"
                }
            },
            "MEGABITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Megabits/Second"
                }
            },
            "GIGABITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Gigabits/Second"
```

```
            }
        },

    "TERABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabits/Second"
            }
        },
        "COUNT_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Count/Second"
            }
        }
    }
},
"com.amazonaws.licensemanager#EntitlementUsage": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage name.</p>",
                "smithy.api#required": {}
            }
        },
        "ConsumedValue": {
            "target": "com.amazonaws.licensemanager#String",

        "traits": {
                "smithy.api#documentation": "<p>Resource usage consumed.</p>",
                "smithy.api#required": {}
            }
        },
        "MaxCount": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
            }
        },
        "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
                "smithy.api#required": {}
            }
        }
```

```
        },
        "traits": {
            "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementUsageList":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#EntitlementUsage"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumption": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
```

```
        "type": "structure",
        "members": {
          "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>License consumption token.</p>",
              "smithy.api#required": {}

      }
          },
          "DryRun": {
            "target": "com.amazonaws.licensemanager#Boolean",
            "traits": {
              "smithy.api#default": false,
              "smithy.api#documentation": "<p>Checks whether you have the required permissions for the action,
without actually making the request. Provides an error response if you do not have the required permissions.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
        "type": "structure",
        "members": {
          "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>License consumption token.</p>"
            }
          },

          "Expiration": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Date and time at which the license consumption expires.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#FailedDependencyException": {
        "type": "structure",
        "members": {
          "Message": {
```

"target": "com.amazonaws.licensemanager#Message"
},
"ErrorCode": {
"target": "com.amazonaws.licensemanager#String"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "FailedDependency",
"httpResponseCode": 424
},
"smithy.api#documentation":
" A dependency required to run the API is missing. ",
"smithy.api#error": "client",
"smithy.api#httpError": 424
}
},
"com.amazonaws.licensemanager#Filter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#FilterName",
"traits": {
"smithy.api#documentation": " Name of the filter. Filter names are case-sensitive. "
}
},
"Values": {
"target": "com.amazonaws.licensemanager#FilterValues",
"traits": {
"smithy.api#documentation": " The value of the filter, which is case-sensitive. You can only
specify one value for the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter
name and value pair that is used to return more specific results from a\n describe operation. Filters can be used
to match a set of resources by specific criteria,\n such as tags, attributes, or IDs. "
}
},
"com.amazonaws.licensemanager#FilterLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {

```
        "aws.protocols#awsQueryError": {
            "code": "FilterLimitExceeded",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The request uses too many filters or too many filter values.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#FilterList": {
    "type": "list",
     "member": {
        "target": "com.amazonaws.licensemanager#Filter"
    }
},
"com.amazonaws.licensemanager#FilterName": {
    "type": "string"
},
"com.amazonaws.licensemanager#FilterValue": {
    "type": "string"
},
"com.amazonaws.licensemanager#FilterValues": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#FilterValue",
        "traits": {
            "smithy.api#xmlName": "item"
        }
    }
},
"com.amazonaws.licensemanager#Filters": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Filter",
        "traits": {
            "smithy.api#xmlName": "item"
        }
    }
},
"com.amazonaws.licensemanager#GetAccessToken": {
    "type": "operation",
    "input": {
         "target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
    },
    "errors": [
```

```
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets a temporary access token to use with
AssumeRoleWithWebIdentity. Access
 tokens\n          are valid for one hour.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenRequest": {
        "type": "structure",
        "members": {
            "Token": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>",
                    "smithy.api#required": {}
                }
            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Token properties to validate against those present in the JWT
token.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenResponse":
 {
        "type": "structure",
        "members": {
```

```
        "AccessToken": {
            "target": "com.amazonaws.licensemanager#TokenString",
            "traits": {
                "smithy.api#documentation": "<p>Temporary access token.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#GetGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"

    },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
```

```
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
        "Grant": {
            "target": "com.amazonaws.licensemanager#Grant",
            "traits": {
                "smithy.api#documentation": "<p>Grant details.</p>"
            }
        }
    },
    "traits": {

"smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#GetLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
```

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"

},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license configuration. "

```
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits":
 {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurationId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Unique ID for the license configuration.</p>"
                }
            },
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
                }
            },
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the license configuration.</p>"
                 }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Description of the license configuration.</p>"
                }
            },
            "LicenseCountingType": {
                "target": "com.amazonaws.licensemanager#LicenseCountingType",
```

```
            "traits": {
                "smithy.api#documentation": "<p>Dimension for which the licenses are counted.</p>"
            }
        },
        "LicenseRules": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>License rules.</p>"
            }
        },
        "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",

           "traits": {
                "smithy.api#documentation": "<p>Number of available licenses.</p>"
            }
        },
        "LicenseCountHardLimit": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Sets the number of available licenses as a hard limit.</p>"
            }
        },
        "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses assigned to resources.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License configuration status.</p>"
            }

    },
        "OwnerAccountId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Account ID of the owner of the license configuration.</p>"
            }
        },
        "ConsumedLicenseSummaryList": {
            "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
            "traits": {
                "smithy.api#documentation": "<p>Summaries of the licenses consumed by resources.</p>"
            }
        },
```

"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the managed resources. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags for the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When
true, disassociates a resource when software is uninstalled. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTask": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets information about the specified license type conversion task. "
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task to retrieve information on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the resources the license conversion task is associated with. "

```
            }
        },
        "SourceLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
                "smithy.api#documentation": "<p>Information
about the license type converted from.</p>"
            }
        },
        "DestinationLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
                "smithy.api#documentation": "<p>Information about the license type converted to.</p>"
            }
        },
        "StatusMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
            "traits": {
                "smithy.api#documentation": "<p>Status of the license type conversion task.</p>"
            }
        },

  "StartTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Time at which the license type conversion task was started .</p>"
            }
        },
        "LicenseConversionTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Amount of time to complete the license type conversion.</p>"
            }
        },
        "EndTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Time at which the license type conversion task was
completed.</p>"
            }
        }
    },
```

```
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

         },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets information about the specified report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. ",
"smithy.api#required":
{}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"ReportGenerator": {
"target": "com.amazonaws.licensemanager#ReportGenerator",
"traits": {
"smithy.api#documentation": " A report generator that creates periodic reports about your license configurations. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
},
"traits": {
"smithy.api#input": {}
}

```
    },
    "com.amazonaws.licensemanager#GetLicenseResponse": {
        "type": "structure",
        "members": {
            "License": {
                "target": "com.amazonaws.licensemanager#License",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },

"com.amazonaws.licensemanager#GetLicenseUsage": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {

"target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the usage of the specified license.</p>"
        }
```

```
    },
    "com.amazonaws.licensemanager#GetLicenseUsageRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#GetLicenseUsageResponse": {
      "type": "structure",
      "members": {
        "LicenseUsage": {
          "target":
"com.amazonaws.licensemanager#LicenseUsage",
          "traits": {
            "smithy.api#documentation": "<p>License usage details.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#GetServiceSettings": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets the License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsRequest": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Regional S3 bucket path for storing reports, license trail event data,
discovery data,\n        and so on.</p>"

  }
            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>SNS topic configured to receive notifications from License
Manager.</p>"
                }
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether Organizations is integrated with License
Manager for\n        cross-account discovery.</p>"
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether cross-account discovery is enabled.</p>"
                }
```

```
        },
            "LicenseManagerResourceShareArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource share. The License
Manager management account \n        provides member accounts with access to this share.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#Grant": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {

 "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ParentArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Parent ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>License ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "GranteePrincipalArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
```

"smithy.api#documentation": " The grantee principal ARN. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"GrantStatus": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. ",
"smithy.api#required": {}
}
},
"GrantedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Granted operations. ",
"smithy.api#required": {}
}
},
"Options": {
"target": "com.amazonaws.licensemanager#Options",
"traits": {
"smithy.api#documentation": " The options specified for the grant. "
}
}
},
"traits": {
"smithy.api#documentation":

" Describes a grant. "
}
},
"com.amazonaws.licensemanager#GrantList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Grant"
}
},
"com.amazonaws.licensemanager#GrantStatus": {
"type": "enum",
"members": {
"PENDING_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_WORKFLOW"
}
},
"PENDING_ACCEPT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_ACCEPT"
}
},
"REJECTED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "REJECTED"

}
},
"ACTIVE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ACTIVE"
}
},
"FAILED_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "FAILED_WORKFLOW"
}
},
"DELETED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DELETED"
}

```
            },
            "PENDING_DELETE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_DELETE"
                }
            },
            "DISABLED": {
                "target": "smithy.api#Unit",
                "traits":
{
                    "smithy.api#enumValue": "DISABLED"
                }
            },
            "WORKFLOW_COMPLETED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "WORKFLOW_COMPLETED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GrantedLicense": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "LicenseName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License name.</p>"
                }

  },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product name.</p>"
                }
            },
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product SKU.</p>"
```

```
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
                "smithy.api#documentation": "<p>Granted license issuer.</p>"
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region of the granted license.</p>"

         }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>Granted license status.</p>"
            }
        },
        "Validity": {
            "target": "com.amazonaws.licensemanager#DatetimeRange",
            "traits": {
                "smithy.api#documentation": "<p>Date and time range during which the granted license is valid, in
ISO8601-UTC format.</p>"
            }
        },
        "Beneficiary": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Granted license beneficiary.</p>"
            }
        },
        "Entitlements": {
            "target": "com.amazonaws.licensemanager#EntitlementList",
             "traits": {
                "smithy.api#documentation": "<p>License entitlements.</p>"
            }
        },
        "ConsumptionConfiguration": {
            "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
            }
        },
        "LicenseMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
```

```
            "traits": {
                "smithy.api#documentation": "<p>Granted license metadata.</p>"
            }
        },
        "CreateTime": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Creation time of the granted license.</p>"

  }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Version of the granted license.</p>"
            }
        },
        "ReceivedMetadata": {
            "target": "com.amazonaws.licensemanager#ReceivedMetadata",
            "traits": {
                "smithy.api#documentation": "<p>Granted license received metadata.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes a license that is granted to a grantee.</p>"
    }
},
"com.amazonaws.licensemanager#GrantedLicenseList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#GrantedLicense"
    }
},
"com.amazonaws.licensemanager#ISO8601DateTime":
{
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 50
        },
        "smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-
1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[ 0-3]|[0-1][0-9]):[0-5][0-9])+$"
    }
},
"com.amazonaws.licensemanager#Integer": {
    "type": "integer"
```

```
    },
    "com.amazonaws.licensemanager#InvalidParameterValueException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidParameterValueProvided",
                "httpResponseCode": 400
            },
            "smithy.api#documentation":
 "<p>One or more parameter values are not valid.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#InvalidResourceStateException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidResourceState",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>License Manager cannot allocate a license to a resource because of its
state. </p>\n        <p>For example, you cannot allocate a license to an instance in the process of shutting\n
down.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },

    "com.amazonaws.licensemanager#InventoryFilter": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the filter.</p>",
                    "smithy.api#required": {}
                }
```

```
        },
        "Condition": {
            "target": "com.amazonaws.licensemanager#InventoryFilterCondition",
            "traits": {
                "smithy.api#documentation": "<p>Condition of the filter.</p>",
                "smithy.api#required": {}
            }
        },
        "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Value of the filter.</p>"
            }
        }

    },
    "traits": {
        "smithy.api#documentation": "<p>An inventory filter.</p>"
    }
  },
  "com.amazonaws.licensemanager#InventoryFilterCondition": {
    "type": "enum",
    "members": {
        "EQUALS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EQUALS"
            }
        },
        "NOT_EQUALS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "NOT_EQUALS"
            }
        },
        "BEGINS_WITH": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "BEGINS_WITH"
            }
        },
        "CONTAINS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "CONTAINS"
            }
        }
    }
```

```
    },
    "com.amazonaws.licensemanager#InventoryFilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#InventoryFilter"
        }
    },
    "com.amazonaws.licensemanager#Issuer": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Issuer name.</p>",
                    "smithy.api#required": {}
                }
            },
            "SignKey": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage
 of sign and verify, \n        and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about the issuer of a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#IssuerDetails": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Issuer name.</p>"
                }
            },
            "SignKey": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n        and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
                }
            },
            "KeyFingerprint": {
```

```
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Issuer key fingerprint.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details associated with the issuer of a license.</p>"
    }
},
"com.amazonaws.licensemanager#License": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
        },
        "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {

       "smithy.api#documentation": "<p>License name.</p>"
            }
        },
        "ProductName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product name.</p>"
            }
        },
        "ProductSKU": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product SKU.</p>"
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
                "smithy.api#documentation": "<p>License issuer.</p>"
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

"smithy.api#documentation": " Home Region of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"Entitlements": {

"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " License metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " License creation time. "
}
},

```
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Software license that is managed in License Manager.</p>"
    }
},
"com.amazonaws.licensemanager#LicenseConfiguration": {
    "type": "structure",
    "members": {
        "LicenseConfigurationId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Unique ID of the license configuration.</p>"
            }
        },
        "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
            }
        },
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Name of the license configuration.</p>"
            }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Description of the license configuration.</p>"
            }
        },
        "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
            "traits": {
                "smithy.api#documentation": "<p>Dimension to use to track the license inventory.</p>"
             }
        },
        "LicenseRules": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>License rules.</p>"
```

```
            }
        },
        "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
            }
        },
        "LicenseCountHardLimit": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Number of available licenses as a hard limit.</p>"
            }
        },
        "DisassociateWhenNotFound": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
             "traits": {
                "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
            }
        },
        "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses consumed. </p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Status of the license configuration.</p>"
            }
        },
        "OwnerAccountId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Account ID of the license configuration's owner.</p>"

        }
        },
        "ConsumedLicenseSummaryList": {
            "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
            "traits": {
                "smithy.api#documentation": "<p>Summaries for licenses consumed by various resources.</p>"
            }
        },
        "ManagedResourceSummaryList": {
            "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
```

"traits": {
"smithy.api#documentation": " Summaries for managed resources. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {

"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
}
},
"traits": {
"smithy.api#documentation": " A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
"type": "structure",
"members": {
"ResourceArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of server resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource consuming licenses. "
}

```
            },
            "AssociationTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {

    "smithy.api#documentation": "<p>Time when the license configuration was associated with the resource.</p>"
                }
            },
            "AmiAssociationScope": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-
account</code>.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes an association with a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationStatus": {
        "type": "enum",
        "members":
{
            "AVAILABLE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "AVAILABLE"
                }
            },
            "DISABLED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DISABLED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationUsage": {
        "type": "structure",
        "members": {
            "ResourceArn": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits":
{
"smithy.api#documentation": " Type of resource. "
}
},
"ResourceStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the account that owns the resource. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was initially associated with the resource. "
}
},

"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about the usage of a resource associated with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"

}
},
"com.amazonaws.licensemanager#LicenseConfigurations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfiguration"
}
},
"com.amazonaws.licensemanager#LicenseConversionContext": {

"type": "structure",
"members": {
"UsageOperation": {
"target": "com.amazonaws.licensemanager#UsageOperation",
"traits": {
"smithy.api#documentation": " The Usage operation value that corresponds to the license type you are converting your resource from. For more information about which platforms correspond to which usage operation values see Sample data: usage operation by platform\n \n "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTask": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {

"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " The ID of the license type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the resource associated with the license type\n conversion task. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted from. "

```
            }
        },
        "DestinationLicenseContext": {
            "target":
 "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
                "smithy.api#documentation": "<p>Information about the license type this conversion task converted
to.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
            "traits": {
                "smithy.api#documentation": "<p>The status of the conversion task.</p>"
            }
        },
        "StatusMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
            }
        },
        "StartTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation":
 "<p>The time the conversion task was started at.</p>"
            }
        },
        "LicenseConversionTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>The time the usage operation value of the resource was
changed.</p>"
            }
        },
        "EndTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>The time the conversion task was completed.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
    }
},
"com.amazonaws.licensemanager#LicenseConversionTaskId": {
```

```
        "type": "string",
        "traits": {

       "smithy.api#length": {
            "min": 0,
            "max": 50
          },
          "smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
        }
      },
      "com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
        "type": "enum",
        "members": {
          "IN_PROGRESS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "IN_PROGRESS"
            }
          },
          "SUCCEEDED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "SUCCEEDED"
            }
          },
          "FAILED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "FAILED"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#LicenseConversionTasks":
  {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#LicenseConversionTask"
        }
      },
      "com.amazonaws.licensemanager#LicenseCountingType": {
        "type": "enum",
        "members": {
          "VCPU": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "vCPU"
            }
```

```
        },
        "INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Instance"
            }
        },
        "CORE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Core"
            }
        },
        "SOCKET": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "Socket"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseDeletionStatus": {
    "type": "enum",
    "members": {
        "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#License"
    }
},
"com.amazonaws.licensemanager#LicenseOperationFailure": {

    "type": "structure",
    "members": {
```

"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Resource type. "
}
},
"ErrorMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Error message. "
}
},
"FailureTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {

"smithy.api#documentation": " Failure time. "
}
},
"OperationName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the operation. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource. "
}
},
"OperationRequestedBy": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The requester is \"License Manager Automated Discovery\". "
}
},
"MetadataList": {

"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {

"smithy.api#documentation": " Reserved. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the failure of a license operation. "
}
},
"com.amazonaws.licensemanager#LicenseOperationFailureList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseOperationFailure"
}
},
"com.amazonaws.licensemanager#LicenseSpecification": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",

"smithy.api#required": {}
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Details for associating a license configuration with a resource. "
}
},
"com.amazonaws.licensemanager#LicenseSpecifications": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseSpecification"
}
},
"com.amazonaws.licensemanager#LicenseStatus": {
"type": "enum",
"members": {
"AVAILABLE": {

"target": "smithy.api#Unit",

"traits": {
"smithy.api#enumValue": "AVAILABLE"
}
},
"PENDING_AVAILABLE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_AVAILABLE"
}
},
"DEACTIVATED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DEACTIVATED"
}
},
"SUSPENDED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "SUSPENDED"
}
},
"EXPIRED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "EXPIRED"
}
},

"PENDING_DELETE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_DELETE"
}
},
"DELETED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DELETED"
}
}
}
},
"com.amazonaws.licensemanager#LicenseUsage": {
"type": "structure",
"members": {

"EntitlementUsages": {
"target": "com.amazonaws.licensemanager#EntitlementUsageList",
"traits": {
"smithy.api#documentation": " License entitlement usages. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the entitlement usage associated with a license. "

}
},
"com.amazonaws.licensemanager#LicenseUsageException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "LicenseUsageFailure",
"httpResponseCode": 412
},
"smithy.api#documentation": " You do not have enough licenses available to support a new resource launch. ",
"smithy.api#error": "client",
"smithy.api#httpError": 412
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"

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            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the resource associations for the
 specified license configuration.</p>\n        <p>Resource associations need not consume licenses from a license
configuration. \n        For example, an AMI or a stopped instance might not consume a license (depending on \n
the license rules).</p>"
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results
 to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
        "type": "structure",
```

"members": {
"LicenseConfigurationAssociations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
"traits": {
"smithy.api#documentation": " Information about the associations for the license configuration. "
}
},
"NextToken": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the grants distributed for the specified license. "
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
"type": "structure",
"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranteePrincipalARN</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
"type": "structure",

"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",

"traits": {
"smithy.api#documentation": " Distributed grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license configuration operations that failed. "
}

```
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
      "type": "structure",
      "members": {
        "LicenseConfigurationArn": {
          "target": "com.amazonaws.licensemanager#String",
           "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name of the license configuration.</p>",
            "smithy.api#required": {}
          }
        },
        "MaxResults": {
          "target": "com.amazonaws.licensemanager#BoxInteger",
          "traits": {
            "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse":
{
      "type": "structure",
      "members": {
        "LicenseOperationFailureList": {
          "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
          "traits": {
            "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
```

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    },
    "com.amazonaws.licensemanager#ListLicenseConfigurations": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
        },

    "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configurations
 for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
configurations.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
```

"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next
set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical
operators\n are supported: \n \n \n \n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n
\n <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license
enforcement is used. \n Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>. \n
\n \n \n <code>usagelimitExceeded</code> - A Boolean value that
indicates whether the available licenses have been exceeded. \n Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
"type": "structure",
"members": {
"LicenseConfigurations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurations",
"traits": {
"smithy.api#documentation": " Information about the license configurations. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},

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    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseConversionTasks": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
    "type": "structure",
    "members": {
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {

"smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
```

```
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>\n        Filters to scope the results. Valid filters are
<code>ResourceArns</code> and <code>Status</code>.\n      </p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTasks": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTasks",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configuration tasks for your
 account.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target":
```

"com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the report generators for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest":
{
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported:
\n \n \n \n <code>LicenseConfigurationArn</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits":
{
"smithy.api#documentation": " Maximum number of results to return in a single call. "

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            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
        "type": "structure",
        "members": {
          "ReportGenerators": {
            "target": "com.amazonaws.licensemanager#ReportGeneratorList",
            "traits": {
              "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }

        }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
```

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Describes the license configurations for the specified resource. "
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a resource that has an associated license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
"type": "structure",
"members": {
"LicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " License configurations associated with a resource. "
}
},

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        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists all versions of the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
```

```
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
        "type": "structure",
        "members": {
          "Licenses": {
            "target": "com.amazonaws.licensemanager#LicenseList",
            "traits": {
              "smithy.api#documentation": "<p>License details.</p>"
            }
          },

"NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenses": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicensesRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicensesResponse"
        },
```

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the licenses for your account. "
}
},
"com.amazonaws.licensemanager#ListLicensesRequest": {
"type": "structure",
"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},

"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>Beneficiary</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>Status</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token

for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicensesResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#LicenseList",
"traits": {
"smithy.api#documentation": " License details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists grants that are received. Received grants are grants created while specifying the\n recipient as this Amazon Web Services account, your organization, or an organizational unit\n (OU) to which this member account belongs. "
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganization": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},

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            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target":
 "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the grants received for all accounts in the organization.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the received license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n
    <ul>\n        <li>\n            <p>\n                <code>ParentArn</code>\n            </p>\n        </li>\n
<li>\n            <p>\n                <code>GranteePrincipalArn</code>\n            </p>\n        </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
```

"com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Lists the grants the organization has received. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
"type": "structure",
"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranterAccountId</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},

```
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
    "type": "structure",
    "members": {
        "Grants": {
            "target": "com.amazonaws.licensemanager#GrantList",
             "traits": {
                "smithy.api#documentation": "<p>Received grant details.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
         },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists received licenses.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {

    "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
```

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the licenses received for all accounts in the organization. "
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest": {
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>Beneficiary</code>\n \n \n \n \n <code>ProductSKU</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#GrantedLicenseList",
"traits": {
"smithy.api#documentation": " Lists the licenses the organization has received. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
"type": "structure",
"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},

"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>IssuerName</code>\n \n \n \n \n <code>Beneficiary</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
"type": "structure",

```
    "members": {
      "Licenses": {
        "target": "com.amazonaws.licensemanager#GrantedLicenseList",
        "traits": {
          "smithy.api#documentation": "<p>Received license details.</p>"
        }
      },

      "NextToken": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Token for the next set of results.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#ListResourceInventory": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#FailedDependencyException"
      },
      {
        "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
```

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListResourceInventoryRequest": {
        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                 "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#InventoryFilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>account_id</code>
- The ID of the Amazon Web Services account that owns the resource.\n                Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n
            </li>\n            <li>\n                <p>\n                    <code>application_name</code> - The name of the
application. \n                Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n
    </li>\n            <li>\n                <p>\n                    <code>license_included</code> - The type of license included. \n
            Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n                Possible values
are <code>sql-server-enterprise</code> | \n                <code>sql-server-standard</code> | \n                <code>sql-
server-web</code> |  \n                <code>windows-server-datacenter</code>.</p>\n            </li>\n            <li>\n
    <p>\n                    <code>platform</code> - The platform of the resource.\n                Logical operators are
<code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n            </li>\n            <li>\n                <p>\n
        <code>resource_id</code> - The ID of the resource. \n                Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n
      <code>tag:<key></code> - The key/value combination of a tag assigned \n                to the resource. Logical
operators are <code>EQUALS</code> (single account) or\n                <code>EQUALS</code> |
<code>NOT_EQUALS</code> (cross account).</p>\n            </li>\n        </ul>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
```

```
    "com.amazonaws.licensemanager#ListResourceInventoryResponse": {
      "type": "structure",
      "members": {
        "ResourceInventoryList": {
          "target": "com.amazonaws.licensemanager#ResourceInventoryList",
          "traits": {
            "smithy.api#documentation": "<p>Information
about the resources.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#ListTagsForResource": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
         },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Lists the tags for the specified license configuration.</p>"
```

```
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",

    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceResponse": {
        "type": "structure",
        "members": {
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the tags.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListTokens": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTokensRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTokensResponse"
        },
        "errors":
[
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists your tokens.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTokensRequest": {
        "type": "structure",
        "members": {
            "TokenIds": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {

                  "smithy.api#documentation": "<p>Token IDs.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filter is supported:</p>\n
    <ul>\n        <li>\n        <p>\n        <code>LicenseArns</code>\n        </p>\n        </li>\n
</ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation":
 "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
```

```
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListTokensResponse": {
        "type": "structure",
        "members": {
            "Tokens": {
                "target": "com.amazonaws.licensemanager#TokenList",
                "traits": {
                    "smithy.api#documentation": "<p>Received token details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying license\n consumption details by resource at a selected point in time. Use this action to audit the\n current license consumption for any license inventory and configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n are supported:</p>\n <ul>\n <li>\n <p>\n <code>resourceArn</code> - The ARN of the license configuration resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n </li>\n <li>\n <p>\n <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n </li>\n <li>\n <p>\n <code>resourceAccount</code> - The ID of the account that owns the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n </li>\n </ul>"
                }
            }
```

```
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
        "type": "structure",
        "members": {

"LicenseConfigurationUsageList": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#Location": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#Long": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#ManagedResourceSummary": {
        "type": "structure",
        "members": {
            "ResourceType":
{
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
                }
            },
            "AssociationCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
                }
            }
```

```
    },
    "traits": {
        "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
    }
},
"com.amazonaws.licensemanager#MaxSize100": {

"type": "integer",
    "traits": {
        "smithy.api#range": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#String"
    },
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 3
        }
    }
},
"com.amazonaws.licensemanager#Message": {
    "type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The key name.</p>"
            }
        },

"Value": {
            "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " The value. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes key/value pairs. "
}
},
"com.amazonaws.licensemanager#MetadataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Metadata"
}
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " There are no entitlements found for this license, or the entitlement maximum count is reached. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#Options": {
"type": "structure",
"members": {
"ActivationOverrideBehavior": {
"target": "com.amazonaws.licensemanager#ActivationOverrideBehavior",
"traits": {
"smithy.api#documentation": " An activation option for your grant that determines the behavior of activating a grant.\n Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the\n <code>Status</code> parameter. \n \n \n As a license administrator, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when activating a grant. \n \n \n As a grantor, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee\n account in your organization. \n \n \n As a grantee, if the grantor creating the distributed grant doesnt specify an\n <code>ActivationOverrideBehavior</code>, you can optionally specify one when you\n are activating the grant. \n \n \n <dl>\n <dt>DISTRIBUTED_GRANTS_ONLY</dt>\n <dd>\n Use this value to activate a grant without replacing any member accounts\n active grants for the same product. \n </dd>\n <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt>\n <dd>\n Use this value to activate a

grant and disable other active grants in any\n member accounts
for the same product. This action will also replace their\n previously activated grants with this activated grant. \n </dd>\n </dl>"
}
}
},
"traits": {
"smithy.api#documentation": " The options you can specify when you create a new version of a grant, such as activation\n override behavior. For more information, see Granted licenses in License Manager in the License Manager User Guide. "
}
},
"com.amazonaws.licensemanager#OrganizationConfiguration": {
"type": "structure",
"members": {
"EnableIntegration": {
"target": "com.amazonaws.licensemanager#Boolean",
"traits": {
"smithy.api#default": false,
"smithy.api#documentation": " Enables Organizations integration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Configuration information for Organizations. "
}
},
"com.amazonaws.licensemanager#PrincipalArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 1
}
}
},
"com.amazonaws.licensemanager#ProductInformation": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterList": {
"target": "com.amazonaws.licensemanager#ProductInformationFilterList",
"traits": {
"smithy.api#documentation": " A Product information filter consists of a <code>ProductInformationFilterComparator</code> which is a logical operator, a <code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. \n Accepted values for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. \n The following filters and are supported when the resource type \n is <code>SSM_MANAGED</code>: \n \n \n \n <code>Application Name</code> - The name of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Publisher</code> - The publisher of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Version</code> - The version of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Type</code> - The platform type.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n \n \n \n \n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n \n \n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n Possible values are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n The following filters and logical operators are supported when the resource type\n is <code>RDS</code>: \n \n \n \n <code>Engine Edition</code> - The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>. \n \n \n \n <code>License Pack</code> - The license pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n <code>diagnostic pack sqlt</code> | \n <code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n \n ",
"smithy.api#required": {}
}
}
},

```
    "traits": {
        "smithy.api#documentation": "<p>Describes product information for a license configuration.</p>"
    }
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
    "type": "structure",
    "members": {
        "ProductInformationFilterName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Filter name.</p>",
                "smithy.api#required": {}
            }
        },
        "ProductInformationFilterValue": {
            "target": "com.amazonaws.licensemanager#StringList",

      "traits": {
                "smithy.api#documentation": "<p>Filter value.</p>"
            }
        },
        "ProductInformationFilterComparator": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Logical operator.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes product information filters.</p>"
    }
},
"com.amazonaws.licensemanager#ProductInformationFilterList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformationFilter"
    }
},
"com.amazonaws.licensemanager#ProductInformationList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformation"
     }
},
"com.amazonaws.licensemanager#ProvisionalConfiguration": {
    "type": "structure",
    "members": {
```

"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the provisional configuration, in minutes. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details about a provisional configuration. "
}
},
"com.amazonaws.licensemanager#RateLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "RateLimitExceeded",
"httpResponseCode": 429
},
"smithy.api#documentation": " Too many requests have been submitted. Try again after a brief wait. ",
"smithy.api#error": "client",
"smithy.api#httpError": 429
}
},
"com.amazonaws.licensemanager#ReceivedMetadata": {
"type": "structure",
"members": {
"ReceivedStatus": {
"target": "com.amazonaws.licensemanager#ReceivedStatus",
"traits": {
"smithy.api#documentation": " Received status. "
}
},
"ReceivedStatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Received status reason. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",

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                "traits": {
                    "smithy.api#documentation": "<p>Allowed operations.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Metadata associated with received licenses and grants.</p>"
        }
    },
    "com.amazonaws.licensemanager#ReceivedStatus": {
        "type": "enum",
        "members": {
            "PENDING_WORKFLOW": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_WORKFLOW"
                }
            },
            "PENDING_ACCEPT": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue":
"PENDING_ACCEPT"
                }
            },
            "REJECTED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "REJECTED"
                }
            },
            "ACTIVE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "ACTIVE"
                }
            },
            "FAILED_WORKFLOW": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "FAILED_WORKFLOW"
                }
            },
            "DELETED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DELETED"
                }
```

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        },
        "DISABLED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DISABLED"
            }
        },
        "WORKFLOW_COMPLETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "WORKFLOW_COMPLETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#RedirectException": {
    "type": "structure",
    "members": {
        "Location": {
            "target": "com.amazonaws.licensemanager#Location",
            "traits": {
                "smithy.api#httpHeader": "Location"
            }
        },
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 308
    }
},
"com.amazonaws.licensemanager#RejectGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#RejectGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#RejectGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
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            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target":
"com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#RejectGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}

  }
    },
    "com.amazonaws.licensemanager#RejectGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
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"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#RenewType":
{
"type": "enum",
"members": {
"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"WEEKLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Weekly"
}
},
"MONTHLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Monthly"
}
}
}
},
"com.amazonaws.licensemanager#ReportContext": {
"type": "structure",
"members": {
"licenseConfigurationArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration that this generator reports on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details of the license configuration that this generator reports on. "
}
},
"com.amazonaws.licensemanager#ReportFrequency": {
"type": "structure",
"members": {
"value": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Number of times within the frequency period that a report is generated. \n The only supported value is <code>1</code>. "
}
},
"period": {
"target": "com.amazonaws.licensemanager#ReportFrequencyType",

"traits": {
"smithy.api#documentation": " Time period between each report. The period can be daily, weekly, or monthly. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"com.amazonaws.licensemanager#ReportFrequencyType": {
"type": "enum",
"members": {
"DAY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DAY"
}
},
"WEEK": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "WEEK"
}
},

"MONTH": {
"target": "smithy.api#Unit",
"traits":
{
"smithy.api#enumValue": "MONTH"
}
}
}
},
"com.amazonaws.licensemanager#ReportGenerator": {
"type": "structure",
"members": {
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the report generator. "
}
},
"ReportType": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports that are generated. "
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " License
configuration type for this generator. "
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. "
}
},
"LastRunStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the last report generation attempt. "
}

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            },
            "LastRunFailureReason":
 {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Failure message for the last report generation attempt.</p>"
                }
            },
            "LastReportGenerationTime": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Time the last report was generated at.</p>"
                }
            },
            "ReportCreatorAccount": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Web Services account ID used to create the report
generator.</p>"
                }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",

        "traits": {
                    "smithy.api#documentation": "<p>Description of the report generator.</p>"
                }
            },
            "S3Location": {
                "target": "com.amazonaws.licensemanager#S3Location",
                "traits": {
                    "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
                }
            },
            "CreateTime": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Time the report was created.</p>"
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Tags associated with the report generator.</p>"
                }
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}
},
"traits": {
"smithy.api#documentation": " Describe the details of a report generator. "
}
},
"com.amazonaws.licensemanager#ReportGeneratorList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ReportGenerator"
}
},
"com.amazonaws.licensemanager#ReportGeneratorName": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 100
}
}
},
"com.amazonaws.licensemanager#ReportType": {
"type": "enum",
"members": {
"LICENSE_CONFIGURATION_SUMMARY_REPORT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "LicenseConfigurationSummaryReport"
}

},
"LICENSE_CONFIGURATION_USAGE_REPORT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "LicenseConfigurationUsageReport"
}
}
}
},
"com.amazonaws.licensemanager#ReportTypeList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ReportType"
}
},
"com.amazonaws.licensemanager#ResourceInventory": {
"type": "structure",
"members": {

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            "ResourceId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits":
{
                    "smithy.api#documentation": "<p>Type of resource.</p>"
                }
            },
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "Platform": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Platform of the resource.</p>"
                }
            },
            "PlatformVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Platform version of the resource in the inventory.</p>"
                }
            },
            "ResourceOwningAccountId":
{
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#ResourceInventoryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ResourceInventory"
        }
```

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},
"com.amazonaws.licensemanager#ResourceLimitExceededException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "ResourceLimitExceeded",

            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>Your resource limits have been exceeded.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceNotFoundException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "InvalidResource.NotFound",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The resource cannot be found.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceType": {
    "type": "enum",
    "members": {
        "EC2_INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_INSTANCE"
            }
        },
        "EC2_HOST": {
            "target": "smithy.api#Unit",
            "traits": {
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"smithy.api#enumValue": "EC2_HOST"
}
},
"EC2_AMI": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "EC2_AMI"
}
},
"RDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "RDS"
}
},
"SYSTEMS_MANAGER_MANAGED_INSTANCE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
}
}
}
},
"com.amazonaws.licensemanager#S3Location": {
"type": "structure",
"members": {
"bucket": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the S3 bucket reports are published to. "
}
},
"keyPrefix": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Prefix of the S3 bucket reports are published to. "
}
}
},
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"com.amazonaws.licensemanager#ServerInternalException": {
"type": "structure",
"members": {
"Message": {

"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InternalError",
"httpResponseCode": 500
},
"smithy.api#documentation": " The server experienced an internal error. Try again. ",
"smithy.api#error": "server",
"smithy.api#httpError": 500
}
},
"com.amazonaws.licensemanager#SignedToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 4096
}
}
},
"com.amazonaws.licensemanager#StatusReasonMessage": {
"type": "string",
"traits":
{
"smithy.api#length": {
"min": 0,
"max": 400
},
"smithy.api#pattern": "^[\\s\\S]+$"
}
},
"com.amazonaws.licensemanager#String": {
"type": "string"
},
"com.amazonaws.licensemanager#StringList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#String"
}
},
"com.amazonaws.licensemanager#Tag": {
"type": "structure",
"members": {
"Key": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Tag key. "

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            }
          },
          "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation":
"<p>Tag value.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
      },
      "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#String"
        }
      },
      "com.amazonaws.licensemanager#TagList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#Tag"
        }
      },
      "com.amazonaws.licensemanager#TagResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#TagResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#TagResourceResponse"
        },
        "errors": [
          {
            "target":
"com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
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            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits":
 {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>One or more tags.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#TagResourceResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#TokenData": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
```

"TokenType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Type of token generated. The supported value is <code>REFRESH_TOKEN</code>. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"ExpirationTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Token expiration time, in ISO8601-UTC format. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller. "
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the roles included in the token. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token status. The possible values are <code>AVAILABLE</code> and <code>DELETED</code>. "
}
}
},
"traits": {

"smithy.api#documentation": " Describes a token. "
}
},
"com.amazonaws.licensemanager#TokenList": {
"type": "list",

"member": {
"target": "com.amazonaws.licensemanager#TokenData"
}
},
"com.amazonaws.licensemanager#TokenString": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 4096
},
"smithy.api#pattern": "^\\S+$"
}
},
"com.amazonaws.licensemanager#TokenType": {
"type": "enum",
"members": {
"REFRESH_TOKEN": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "REFRESH_TOKEN"
}
}
}
},
"com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException":
{
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The digital signature method is unsupported. Try your request
again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#UntagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UntagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UntagResourceResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Removes the specified tags from the specified license configuration. "
}
},
"com.amazonaws.licensemanager#UntagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"TagKeys": {
"target": "com.amazonaws.licensemanager#TagKeyList",
"traits": {
"smithy.api#documentation": " Keys identifying the tags to remove. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UntagResourceResponse": {
"type": "structure",
"members": {},

"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Modifies the attributes of an existing license configuration. "
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},

"LicenseConfigurationStatus": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
"traits": {
"smithy.api#documentation": " New status of the license configuration. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {

"smithy.api#documentation": " New license rule. The only rule that you can add after you create a license\n configuration is licenseAffinityToHost. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " New number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " New hard limit of the number of available licenses. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New description of the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " New product information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",

"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
}
},
"traits":
{
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},

```
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates a report generator.</p>\n        <p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to update.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportGeneratorName": {
                "target": "com.amazonaws.licensemanager#ReportGeneratorName",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the report generator.</p>",
                    "smithy.api#required": {}
                }
            },
            "Type": {
                "target": "com.amazonaws.licensemanager#ReportTypeList",
                "traits": {
                    "smithy.api#documentation": "<p>Type of reports to generate. The following report types are supported:</p>\n        <ul>\n            <li>\n                <p>License configuration report - Reports the number and details of consumed licenses for a license configuration.</p>\n            </li>\n            <li>\n                <p>Resource report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n            </li>\n        </ul>",
                    "smithy.api#required": {}
                }
            },
            "ReportContext": {
                "target": "com.amazonaws.licensemanager#ReportContext",
                "traits": {
                    "smithy.api#documentation": "<p>The report context.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportFrequency": {
                "target": "com.amazonaws.licensemanager#ReportFrequency",
```

"traits":
{
"smithy.api#documentation": " Frequency by which reports are generated. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse":
{
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

```
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },

            {
                "target": "com.amazonaws.licensemanager#InvalidResourceStateException"
            },
            {
                "target": "com.amazonaws.licensemanager#LicenseUsageException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds or removes the specified license configurations for the specified
Amazon Web Services resource.</p>\n        <p>You can update the license specifications of AMIs, instances, and
hosts.\n        You cannot update the license specifications for launch templates and CloudFormation templates, \n
  as they send license configurations to the operation that creates the resource.</p>"
        }
    },

    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon Web Services
resource.</p>",
                    "smithy.api#required": {}
                }
            },
            "AddLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
                }
            },
            "RemoveLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation":
 "<p>ARNs of the license configurations to remove.</p>"
                }
```

```
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
    "type": "structure",
    "members": {},
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#UpdateServiceSettings": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
         },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Updates License Manager settings for the current Region.</p>"
    }
},
"com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
    "type": "structure",
    "members": {
        "S3BucketArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon S3 bucket where the License
Manager information is stored. "
}
},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {
"smithy.api#documentation": " Enables integration with Organizations for cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Activates cross-account discovery. "

}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UsageOperation": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
}
}
},
"com.amazonaws.licensemanager#ValidationException": {

```
            "type": "structure",
            "members": {
                "Message": {
                    "target": "com.amazonaws.licensemanager#Message"
                }
            },
            "traits": {
                "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",

        "smithy.api#error": "client",
                "smithy.api#httpError": 400
            }
        }
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {
```

```
 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version
 of the license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack,
 options); err != nil {
  return err
```

```
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if
 err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
```

```
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "DeleteLicense",
 }
}
```

1.3645 prometheus-client-model 0.6.0

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1.3646 prometheus-client 1.19.0

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1.3647 github.com/akutz/memconn 0.1.0

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1.3648 go-urn 1.4.0

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1.3649 mongo-driver 1.14.0

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* /opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-jar/org/apache/jute/compiler/generated/ParseException.java
* /opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-jar/org/apache/jute/compiler/generated/RccConstants.java
* /opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-jar/org/apache/jute/compiler/generated/TokenMgrError.java
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 /opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/txn/SetDataTxn.java
* /opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/data/Id.java
* /opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/GetSASLRequest.java
* /opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/WatcherEvent.java
* /opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/GetDataResponse.java
* /opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/SetSASLRequest.java
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 /opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/CheckWatchesRequest.java
* /opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/MultiHeader.java
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* /opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/txn/CreateTxn.java
* /opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/data/ClientInfo.java
* /opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/txn/TxnHeader.java
* /opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/GetEphemeralsResponse.java
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* /opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/SetDataRequest.java
* /opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/server/persistence/FileHeader.java
* /opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/RequestHeader.java
* /opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/txn/CreateSessionTxn.java
* /opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/AddWatchRequest.java
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* /opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/CreateResponse.java
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* /opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/Create2Response.java
* /opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/GetMaxChildrenRequest.java
*
/opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/SetACLRequest.java
* /opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/ErrorResponse.java
* /opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/server/quorum/QuorumAuthPacket.java
* /opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/server/quorum/QuorumPacket.java
* /opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/GetDataRequest.java
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* /opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/RemoveWatchesRequest.java

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* /opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/GetChildren2Request.java
* /opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/GetMaxChildrenResponse.java
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* /opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/txn/Txn.java
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* /opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/SyncRequest.java
* /opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/SetSASLResponse.java
* /opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/server/quorum/LearnerInfo.java
* /opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/ConnectResponse.java
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* /opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/txn/DeleteTxn.java
* /opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/txn/MultiTxn.java
* /opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/SetDataResponse.java
* /opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/txn/SetMaxChildrenTxn.java
* /opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/ExistsResponse.java
* /opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/ReconfigRequest.java
* /opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-

jar/org/apache/zookeeper/proto/GetACLRequest.java
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/opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/txn/TxnDigest.java
* /opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/txn/CreateTTLTxn.java
* /opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/WhoAmIResponse.java
* /opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/GetEphemeralsRequest.java
* /opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/data/StatPersisted.java
* /opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/txn/CloseSessionTxn.java
* /opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/SetWatches2.java
* /opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/txn/CheckVersionTxn.java
*
/opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/txn/CreateContainerTxn.java
* /opt/cola/permits/1926532333_1709806391.3014934/0/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/txn/SetACLTxn.java

1.3666 zookeeper 3.8.4

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* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/cli/GetAllChildrenNumberCommand.java
* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/cli/VersionCommand.java
* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/cli/GetAclCommand.java
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* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/util/MessageTracker.java
* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/util/CircularBuffer.java
* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/controller/ControllerService.java
* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/watch/WatcherModeManager.java
* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/controller/ControllableConnection.java
* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/controller/ZooKeeperServerController.java
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jar/org/apache/zookeeper/server/EphemeralTypeEmulate353.java
*
/opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-
jar/org/apache/zookeeper/server/ContainerManager.java
* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-
jar/org/apache/zookeeper/server/EphemeralType.java
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jar/org/apache/zookeeper/server/controller/CommandClient.java
*
/opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-
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* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-
jar/org/apache/zookeeper/server/controller/ControlCommand.java
* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-
jar/org/apache/zookeeper/server/TxnLogEntry.java
*

/opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/embedded/ZooKeeperServerEmbedded.java
* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/controller/ControllerServerConfig.java
* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/SnapshotComparer.java
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Found in path(s):
* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/quorum/RemotePeerBean.java
*
/opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/quorum/QuorumStats.java
* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/metrics/MetricsProvider.java
* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/CreateMode.java
* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/common/PEMFileLoader.java
* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/cli/ListQuotaCommand.java
* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/quorum/Leader.java
* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/common/KeyStoreLoader.java
* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/common/NettyUtils.java
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* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/quorum/UpgradeableSessionTracker.java
* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/common/KeyStoreFileType.java
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* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/common/ClientX509Util.java
* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/SaslServerPrincipal.java
* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/metrics/impl/DefaultMetricsProvider.java
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/opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/command/ConsCommand.java
* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/quorum/AckRequestProcessor.java
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/opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/quorum/LeaderElectionBean.java
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* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/client/ZKClientConfig.java
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* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/admin/JsonOutputter.java

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/opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/command/MonitorCommand.java
* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/watch/WatchManagerOptimized.java
* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/quorum/ReadOnlyRequestProcessor.java
* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/quorum/BufferStats.java
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* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/Quotas.java
* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/command/WatchCommand.java
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* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/ZooKeeperMain.java
* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/admin/CommandBase.java
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* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/cli/WhoAmICommand.java
* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/common/Time.java
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* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/DataTreeMXBean.java
* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/ConnectionMXBean.java
* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/metric/AvgMinMaxCounterSet.java
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* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/command/FourLetterCommands.java
* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/cli/RemoveWatchesCommand.java
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* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/quorum/QuorumCnxManager.java
* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/quorum/SyncedLearnerTracker.java
* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/metrics/Summary.java
* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/CreateOptions.java
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* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/cli/DeleteAllCommand.java
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jar/org/apache/zookeeper/server/util/AuthUtil.java
* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/persistence/SnapShot.java
* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/watch/WatcherOrBitSet.java
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* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/ServerWatcher.java
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* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/quorum/LearnerSender.java
* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/quorum/auth/QuorumAuthLearner.java
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jar/org/apache/zookeeper/WatchDeregistration.java
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* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/OpResult.java
* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/watch/WatchesReport.java
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* /opt/cola/permits/1926532279_1709806420.260464/0/zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/watch/WatchesSummary.java
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* /opt/cola/permits/1927180309_1709861336.0830085/0/grpc-netty-1-48-0-sources-1-jar/io/grpc/netty/InternalNettyServerBuilder.java
* /opt/cola/permits/1927180309_1709861336.0830085/0/grpc-netty-1-48-0-sources-1-jar/io/grpc/netty/GrpcHttp2OutboundHeaders.java
* /opt/cola/permits/1927180309_1709861336.0830085/0/grpc-netty-1-48-0-sources-1-jar/io/grpc/netty/StreamIdHolder.java
* /opt/cola/permits/1927180309_1709861336.0830085/0/grpc-netty-1-48-0-sources-1-jar/io/grpc/netty/ClientTransportLifecycleManager.java
* /opt/cola/permits/1927180309_1709861336.0830085/0/grpc-netty-1-48-0-sources-1-jar/io/grpc/netty/ForcefulCloseCommand.java
* /opt/cola/permits/1927180309_1709861336.0830085/0/grpc-netty-1-48-0-sources-1-jar/io/grpc/netty/AbstractHttp2Headers.java
* /opt/cola/permits/1927180309_1709861336.0830085/0/grpc-netty-1-48-0-sources-1-jar/io/grpc/netty/GracefulCloseCommand.java
* /opt/cola/permits/1927180309_1709861336.0830085/0/grpc-netty-1-48-0-sources-1-jar/io/grpc/netty/InternalNettyChannelBuilder.java

1.3674 grpc-core 1.48.0

1.3674.1 Available under license :

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1.3675 grpc-api 1.48.0

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* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/GlobalInterceptors.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/InternalServerProvider.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/InternalManagedChannelProvider.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/InternalGlobalInterceptors.java

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*/

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* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/Metadata.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/ClientInterceptors.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/KnownLength.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/ServerInterceptor.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/ServerMethodDefinition.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/ServerServiceDefinition.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/Server.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/HandlerRegistry.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/ClientInterceptor.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/Status.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/ServerCallHandler.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/Drainable.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/Channel.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/MethodDescriptor.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/ServerInterceptors.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/ClientCall.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/ServerCall.java
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* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/PartialForwardingClientCallListener.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/InternalClientInterceptors.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/LoadBalancerProvider.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/SynchronizationContext.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/InternalChannelz.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/LoadBalancerRegistry.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/PartialForwardingClientCall.java
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* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/HttpConnectProxiedSocketAddress.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/ProxiedSocketAddress.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/InternalCallOptions.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/NameResolverRegistry.java
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*/
/**
    * Key managers and trust managers may be specified as {@link KeyManager} and {@link
    * TrustManager} objects. This feature requires observing {@link #getKeyManagers()} and {@link
    * #getTrustManagers()}. Generally {@link #MTLS} should also be supported, as that is the more
    * common method of configuration.
 When a manager is non-{@code null}, then it is wholly
    * responsible for key or trust material and usage; there is no need to check other manager
    * sources like {@link #getCertificateChain()} or {@link #getPrivateKey()} (if {@code
    * KeyManager} is available), or {@link #getRootCertificates()} (if {@code TrustManager} is
    * available).
    *
    * <p>If other manager sources are available (e.g., {@code getPrivateKey() != null}), then they
    * may be alternative representations of the same configuration and the consumer is free to use
    * those alternative representations if it prefers. But before doing so it <em>must</em> first
    * check that it understands that alternative representation by using {@link #incomprehensible}
    * <em>without</em> the {@code CUSTOM_MANAGERS} feature.
    */
```

Found in path(s):
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/TlsChannelCredentials.java
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* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/CompositeChannelCredentials.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/InternalConfigSelector.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/ChoiceChannelCredentials.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/ServerCredentials.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/ChannelCredentials.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/InsecureServerCredentials.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/ManagedChannelRegistry.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/ChoiceServerCredentials.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/ForwardingServerBuilder.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/InternalServer.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/ServerRegistry.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/HasByteBuffer.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/InsecureChannelCredentials.java
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* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/InternalMethodDescriptor.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/InternalDecompressorRegistry.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/LoadBalancer.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/ConnectivityState.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/ConnectivityStateInfo.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/ServerTransportFilter.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/SecurityLevel.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/BindableService.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/CallCredentials.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/InternalKnownTransport.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/NameResolverProvider.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/ServiceDescriptor.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/Grpc.java
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* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/ProxyDetector.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/ForwardingChannelBuilder.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/InternalStatus.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/InternalServerInterceptors.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/ServerStreamTracer.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/StreamTracer.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/InternalWithLogId.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/ClientStreamTracer.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/InternalLogId.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/ServiceProviders.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/InternalServiceProviders.java
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/**
    * Key managers and trust managers may be specified as {@link KeyManager} and {@link
    * TrustManager} objects. This feature by itself only implies {@link #getKeyManagers()} needs to
    * be observed. But along with {@link #MTLS}, then {@link #getTrustManagers()} needs to be
    * observed as well. When a manager is
 non-{@code null}, then it is wholly responsible for key
    * or trust material and usage; there is no need to check other manager sources like {@link
    * #getCertificateChain()} or {@link #getPrivateKey()} (if {@code KeyManager} is available), or
    * {@link #getRootCertificates()} (if {@code TrustManager} is available).
```

```
 *
 * <p>If other manager sources are available (e.g., {@code getPrivateKey() != null}), then they
 * may be alternative representations of the same configuration and the consumer is free to use
 * those alternative representations if it prefers. But before doing so it <em>must</em> first
 * check that it understands that alternative representation by using {@link #incomprehensible}
 * <em>without</em> the {@code CUSTOM_MANAGERS} feature.
 */
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Found in path(s):
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* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/ServerCallExecutorSupplier.java
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* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/ManagedChannelProvider.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/Compressor.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/StatusRuntimeException.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/ServerBuilder.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/ManagedChannelBuilder.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/Codec.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/ForwardingClientCallListener.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/ManagedChannel.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/Decompressor.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/ServerProvider.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/CallOptions.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/StatusException.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/ForwardingServerCallListener.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/package-info.java

* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/ForwardingServerCall.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/ExperimentalApi.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/PartialForwardingServerCall.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/Contexts.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/Attributes.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/NameResolver.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/EquivalentAddressGroup.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/DecompressorRegistry.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/Internal.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/PartialForwardingServerCallListener.java
* /opt/cola/permits/1927180180_1709861169.6544251/0/grpc-api-1-48-0-sources-1-jar/io/grpc/ForwardingClientCall.java

1.3676 x-net 0.22.0

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1.3677 x-crypto 0.21.0

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1.3678 nats 1.33.1

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1.3679 github.com/goccy/go-yaml 1.11.3

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1.3680 hashicorp-consul-api 1.26.1

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package api

import (
 "io"
 "strings"
 "time"
)

type License struct {
```

```
 // The unique identifier of the license
 LicenseID string `json:"license_id"`

 // The customer ID associated with the license
 CustomerID string `json:"customer_id"`

 // If set, an identifier that should be used to lock the license to a
 // particular site, cluster, etc.
 InstallationID string `json:"installation_id"`

 // The time at which the license was issued
 IssueTime time.Time `json:"issue_time"`

 // The time at which the license starts being valid
 StartTime time.Time `json:"start_time"`

 // The time after which the license expires
 ExpirationTime time.Time `json:"expiration_time"`

 // The time at which the license ceases to function and can
 // no longer be used in any capacity
 TerminationTime time.Time `json:"termination_time"`

 // Whether the license will ignore termination
 IgnoreTermination bool `json:"ignore_termination"`

 //
 The product the license is valid for
 Product string `json:"product"`

 // License Specific Flags
 Flags map[string]interface{} `json:"flags"`

 // Modules is a list of the licensed enterprise modules
 Modules []string `json:"modules"`

 // List of features enabled by the license
 Features []string `json:"features"`
}

type LicenseReply struct {
 Valid    bool
 License  *License
 Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
 var reply LicenseReply
```

```
 if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
  return nil, err
 } else {
  return &reply, nil
 }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
 r := op.c.newRequest("GET", "/v1/operator/license")
 r.params.Set("signed", "1")
 r.setQueryOptions(q)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return "", err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
  return "", err
 }

 data, err := io.ReadAll(resp.Body)
 if
 err != nil {
  return "", err
 }

 return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license stays active.
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
 var reply LicenseReply
 r := op.c.newRequest("DELETE", "/v1/operator/license")
 r.setWriteOptions(opts)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return nil, err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
  return nil, err
 }
 if err := decodeBody(resp, &reply); err != nil {
  return nil, err
```

```
 }
 return &reply, nil
}

// LicensePut will configure the Consul Enterprise license for the target datacenter
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set
 via agent configuration instead of through the API
func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
 var reply LicenseReply
 r := op.c.newRequest("PUT", "/v1/operator/license")
 r.setWriteOptions(opts)
 r.body = strings.NewReader(license)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return nil, err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
  return nil, err
 }

 if err := decodeBody(resp, &reply); err != nil {
  return nil, err
 }

 return &reply, nil
}
```

1.3681 go-control-plane 0.12.0

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1.3682 ionos-cloud-sdk-go 6.1.11

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1.3683 protoc-gen-validate 1.0.4

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1.3684 bboreham-go-loser 0.0.0-20230920113527-fcc2c21820a3

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1.3691 go-jose 3.0.3

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with

classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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Unix systems for simple password protection. Copyright 1996 Aki Yoshida,
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1.3697 gorm.io/driver/postgres 1.5.7

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1.3698 githubcomgolangprotobuf 1.5.4

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1.3700 apache-log4j 2.23.1

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1.3715 process-nextick-args 2.0.1

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1.3718 @tufjs/canonical-json 2.0.0

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1.3720 gax-go 2.12.3

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1.3721 x-oauth2 0.18.0

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1.3723 prometheus-alertmanager 0.27.0

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* /opt/cola/permits/1940822857_1713419438.78299/0/sdk-go-tar/sdk-go.txt

1.3728 github.com/azure/azure-sdk-for-go/sdk/resourcemanager/network/armnetwork/v4 4.3.0

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1.3729 github.com/bboreham/go-loser 0.0.0-20230920113527-fcc2c21820a3

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1.3730 zookeeper 3.9.2

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* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/controller/ControllableConnectionFactory.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/common/BCFKSFileLoader.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/SnapshotComparer.java
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* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/controller/ZooKeeperServerController.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/SnapshotRecursiveSummary.java
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* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/auth/KeyAuthenticationProvider.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/quorum/RemotePeerBean.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/Stats.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/quorum/LearnerHandlerBean.java
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* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/admin/JettyAdminServer.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/auth/ServerAuthenticationProvider.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/auth/SASLAuthenticationProvider.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/ZooKeeperThread.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/ClientCnxnSocket.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/quorum/StateSummary.java
*
/opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/common/SSLContextAndOptions.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/audit/AuditEvent.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/SessionTrackerImpl.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/command/EnvCommand.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/DigestCalculator.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/admin/DummyAdminServer.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/command/AbstractFourLetterCommand.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/cli/GetCommand.java
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/opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/common/X509Exception.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/command/MonitorCommand.java

* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/admin/Commands.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/util/VerifyingFileFactory.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/DataTreeMXBean.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/admin/Command.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/Watcher.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/watch/WatcherCleaner.java
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* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/audit/AuditConstants.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/metrics/Gauge.java
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* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/ZooKeeperServerMXBean.java
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/opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/ZooKeeperServerBean.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/watch/WatchManager.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/cli/AclParser.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/util/BitMap.java
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* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/quorum/flexible/QuorumOracleMaj.java
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* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/quorum/auth/SaslQuorumAuthServer.java
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* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/quorum/AckRequestProcessor.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/compat/ProtocolManager.java
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* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/CreateMode.java
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* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/quorum/FollowerMXBean.java
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* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/NettyServerCnxn.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/ZooTrace.java

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* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/RequestProcessor.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/cli/SetQuotaCommand.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/metric/Metric.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/ZooKeeperServerShutdownHandler.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/quorum/Observer.java
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/opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/common/AtomicFileOutputStream.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/common/ZKTrustManager.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/command/CommandExecutor.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/metrics/impl/NullMetricsProvider.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/command/DumpCommand.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/SessionTracker.java
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/opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/cli/StatCommand.java
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* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/ClientWatchManager.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/PrepRequestProcessor.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/ByteBufferOutputStream.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/ServerCnxnHelper.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/quorum/LeaderBean.java
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/opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/ZKUtil.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-

jar/org/apache/zookeeper/server/persistence/FilePadding.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/quorum/LeaderMXBean.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/cli/DeleteCommand.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/NodeHashMapImpl.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/quorum/QuorumStats.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/quorum/FastLeaderElection.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/DataNode.java
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/opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/quorum/UnifiedServerSocket.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/quorum/QuorumBean.java
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* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/metrics/Counter.java
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* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/cli/AddWatchCommand.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/command/FourLetterCommands.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/AuthenticationHelper.java
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* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/cli/SetAclCommand.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/server/watch/IDeadWatcherListener.java
* /opt/cola/permits/1941304025_1710947376.6570852/0/zookeeper-3-9-2-sources-jar/org/apache/zookeeper/cli/CliException.java

1.3731 zookeeper-jute 3.9.2

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jar/org/apache/jute/compiler/generated/RccConstants.java
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* /opt/cola/permits/1941304047_1710947381.185432/0/zookeeper-jute-3-9-2-sources-jar/org/apache/jute/compiler/generated/TokenMgrError.java
* /opt/cola/permits/1941304047_1710947381.185432/0/zookeeper-jute-3-9-2-sources-jar/org/apache/jute/compiler/generated/ParseException.java
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* /opt/cola/permits/1941304047_1710947381.185432/0/zookeeper-jute-3-9-2-sources-jar/org/apache/zookeeper/data/Stat.java
* /opt/cola/permits/1941304047_1710947381.185432/0/zookeeper-jute-3-9-2-sources-jar/org/apache/zookeeper/proto/CreateResponse.java
* /opt/cola/permits/1941304047_1710947381.185432/0/zookeeper-jute-3-9-2-sources-jar/org/apache/zookeeper/proto/MultiHeader.java
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1.3740 k8s-io-client-go 0.29.3

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1.3743 google.golang.org/genproto/googleapis/rpc 0.0.0-20240318140521-94a12d6c2237

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1.3751 github.com/azuread/microsoft-authentication-library-for-go 1.2.2

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1.3752 github.com/golang-jwt/jwt/v5 5.2.1

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1.3753 github.com/mdlayher/vsock 1.2.1

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1.3754 spring-web 6.1.5

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org.springframework.web.server.adapter.WebHttpHandlerBuilder$SpringWebBlockHoundIntegration

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* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/client/RestClientUtils.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/method/annotation/MethodArgumentTypeMismatchException.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/http/codec/json/Jackson2CodecSupport.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/http/converter/json/Jackson2ObjectMapperBuilder.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/service/invoker/HttpExchangeAdapter.java
*
/opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/http/client/support/InterceptingHttpAccessor.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/util/pattern/WildcardPathElement.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/bind/support/DefaultDataBinderFactory.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/service/invoker/ReactorHttpExchangeAdapter.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/http/client/reactive/ReactorNetty2ClientHttpRequest.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/client/RestClient.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/http/converter/json/ProblemDetailRuntimeHints.java
*
/opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/multipart/MaxUploadSizeExceededException.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/http/converter/json/GsonBuilderUtils.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/context/request/RequestContextHolder.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/http/converter/json/JsonbHttpMessageConverter.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/util/UrlPathHelper.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/http/client/observation/ClientHttpObservationDocumentation.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/client/ClientHttpResponseDecorator.java
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* limitations under the License.
*/
/**
  * Return the web session for the current request. Always guaranteed to
  * return an instance either matching to the session id requested by the
  * client, or with a new session id either because the client did not
  * specify one or because the underlying session had expired. Use of this
  * method
 does not automatically create a session. See {@link WebSession}
  * for more details.
  */

Found in path(s):
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/server/ServerWebExchange.java
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Found in path(s):
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/http/codec/HttpMessageReader.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-

jar/org/springframework/http/server/reactive/WriteResultPublisher.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-
jar/org/springframework/web/bind/annotation/RequestPart.java
*
 /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-
jar/org/springframework/web/multipart/support/RequestPartServletServerHttpRequest.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-
jar/org/springframework/http/server/reactive/AbstractListenerServerHttpResponse.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-
jar/org/springframework/web/cors/reactive/PreFlightRequestWebFilter.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-
jar/org/springframework/web/filter/FormContentFilter.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-
jar/org/springframework/web/bind/support/WebBindingInitializer.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-
jar/org/springframework/web/context/support/HttpRequestHandlerServlet.java
*
 /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-
jar/org/springframework/web/util/pattern/WildcardTheRestPathElement.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-
jar/org/springframework/http/codec/multipart/FileStorage.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-
jar/org/springframework/http/codec/multipart/FilePart.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-
jar/org/springframework/http/converter/HttpMessageConverter.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-
jar/org/springframework/http/converter/protobuf/ProtobufJsonFormatHttpMessageConverter.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-
jar/org/springframework/web/cors/reactive/PreFlightRequestHandler.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-
jar/org/springframework/web/util/UriComponents.java
*
 /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-
jar/org/springframework/web/jsf/DecoratingNavigationHandler.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-
jar/org/springframework/web/bind/annotation/CookieValue.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-
jar/org/springframework/web/context/support/ServletContextResourcePatternResolver.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-
jar/org/springframework/web/method/annotation/RequestHeaderMethodArgumentResolver.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-
jar/org/springframework/web/SpringServletContainerInitializer.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-
jar/org/springframework/web/context/support/SpringBeanAutowiringSupport.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-
jar/org/springframework/web/HttpRequestHandler.java
*

/opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/http/codec/ServerSentEvent.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/filter/HiddenHttpMethodFilter.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/method/annotation/ExceptionHandlerMethodResolver.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/multipart/MultipartResolver.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/util/HtmlUtils.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/http/server/reactive/HttpHandlerDecoratorFactory.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/multipart/MultipartHttpServletRequest.java
*
/opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/http/codec/FormHttpMessageWriter.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/multipart/support/DefaultMultipartHttpServletRequest.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/util/HtmlCharacterEntityDecoder.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/http/MediaTypeFactory.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/jsf/el/WebApplicationContextFacesELResolver.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/client/RequestCallback.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/method/annotation/AbstractCookieValueMethodArgumentResolver.java
*
/opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/multipart/support/StringMultipartFileEditor.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/http/server/reactive/UndertowHeadersAdapter.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/http/server/reactive/ServerHttpRequest.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/http/server/reactive/AbstractListenerWriteFlushProcessor.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/multipart/MultipartFile.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/WebApplicationInitializer.java
*
/opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/method/support/CompositeUriComponentsContributor.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/accept/ContentNegotiationManagerFactoryBean.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-

jar/org/springframework/http/client/reactive/JdkClientHttpConnector.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-
jar/org/springframework/web/multipart/support/AbstractMultipartHttpServletRequest.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-
jar/org/springframework/web/filter/reactive/HiddenHttpMethodFilter.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-
jar/org/springframework/http/codec/HttpMessageWriter.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-
jar/org/springframework/web/server/handler/DefaultWebFilterChain.java
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* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/method/support/HandlerMethodArgumentResolver.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/context/support/ServletConfigPropertySource.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/http/server/ServerHttpAsyncRequestControl.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/context/support/ServletContextPropertySource.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/http/converter/feed/AtomFeedHttpMessageConverter.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/context/ConfigurableWebApplicationContext.java
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This file maps Internet media types to unique file extension(s).
Although created for httpd, this file is used by many software systems
and has been placed in the public domain for unlimited redistribution.
#
The table below contains both registered and (common) unregistered types.
A type that has no unique extension can be ignored -- they are listed
here to guide configurations toward known types and to make it easier to
identify "new" types. File extensions are also commonly used to indicate
content languages and encodings, so choose them carefully.
#
Internet media types should be registered as described in RFC 4288.
The registry is at <https://www.iana.org/assignments/media-types/>.
#
This file was retrieved from
https://svn.apache.org/viewvc/httpd/httpd/trunk/docs/conf/mime.types?revision=1752884&view=co
#
MIME type (lowercased)   Extensions
== ==========
#
application/1d-interleaved-parityfec
application/3gpdash-qoe-report+xml
application/3gpp-ims+xml
application/a2l
application/activemessage
application/alto-costmap+json
application/alto-costmapfilter+json
application/alto-directory+json
application/alto-endpointcost+json
application/alto-endpointcostparams+json
application/alto-endpointprop+json

```
# application/alto-endpointpropparams+json
# application/alto-error+json
# application/alto-networkmap+json
# application/alto-networkmapfilter+json
# application/aml
application/andrew-inset   ez
# application/applefile
application/applixware    aw
# application/atf
# application/atfx
application/atom+xml    atom
application/atomcat+xml    atomcat
# application/atomdeleted+xml
# application/atomicmail
application/atomsvc+xml    atomsvc
# application/atxml
# application/auth-policy+xml
# application/bacnet-xdd+zip
# application/batch-smtp
# application/beep+xml
# application/calendar+json
# application/calendar+xml
#
 application/call-completion
# application/cals-1840
# application/cbor
# application/ccmp+xml
application/ccxml+xml    ccxml
# application/cdfx+xml
application/cdmi-capability   cdmia
application/cdmi-container   cdmic
application/cdmi-domain    cdmid
application/cdmi-object    cdmio
application/cdmi-queue    cdmiq
# application/cdni
# application/cea
# application/cea-2018+xml
# application/cellml+xml
# application/cfw
# application/cms
# application/cnrp+xml
# application/coap-group+json
# application/commonground
# application/conference-info+xml
# application/cpl+xml
# application/csrattrs
# application/csta+xml
# application/cstadata+xml
```

```
# application/csvm+json
application/cu-seeme	cu
# application/cybercash
# application/dash+xml
# application/dashdelta
application/davmount+xml	davmount
# application/dca-rft
# application/dcd
# application/dec-dx
# application/dialog-info+xml
# application/dicom
# application/dii
# application/dit
# application/dns
application/docbook+xml	dbk
#
 application/dskpp+xml
application/dssc+der	dssc
application/dssc+xml	xdssc
# application/dvcs
application/ecmascript	ecma
# application/edi-consent
# application/edi-x12
# application/edifact
# application/efi
# application/emergencycalldata.comment+xml
# application/emergencycalldata.deviceinfo+xml
# application/emergencycalldata.providerinfo+xml
# application/emergencycalldata.serviceinfo+xml
# application/emergencycalldata.subscriberinfo+xml
application/emma+xml	emma
# application/emotionml+xml
# application/encaprtp
# application/epp+xml
application/epub+zip	epub
# application/eshop
# application/example
application/exi	exi
# application/fastinfoset
# application/fastsoap
# application/fdt+xml
# application/fits
# application/font-sfnt
application/font-tdpfr	pfr
application/font-woff	woff
# application/framework-attributes+xml
# application/geo+json
application/gml+xml	gml
```

```
application/gpx+xml    gpx
application/gxf     gxf
# application/gzip
#
 application/h224
# application/held+xml
# application/http
application/hyperstudio    stk
# application/ibe-key-request+xml
# application/ibe-pkg-reply+xml
# application/ibe-pp-data
# application/iges
# application/im-iscomposing+xml
# application/index
# application/index.cmd
# application/index.obj
# application/index.response
# application/index.vnd
application/inkml+xml    ink inkml
# application/iotp
application/ipfix    ipfix
# application/ipp
# application/isup
# application/its+xml
application/java-archive   jar
application/java-serialized-object  ser
application/java-vm    class
application/javascript    js
# application/jose
# application/jose+json
# application/jrd+json
application/json    json
# application/json-patch+json
# application/json-seq
application/jsonml+json    jsonml
# application/jwk+json
# application/jwk-set+json
# application/jwt
# application/kpml-request+xml
# application/kpml-response+xml
# application/ld+json
# application/lgr+xml
# application/link-format
#
 application/load-control+xml
application/lost+xml    lostxml
# application/lostsync+xml
# application/lxf
```

```
application/mac-binhex40   hqx
application/mac-compactpro   cpt
# application/macwriteii
application/mads+xml    mads
application/marc    mrc
application/marcxml+xml    mrcx
application/mathematica    ma nb mb
application/mathml+xml    mathml
# application/mathml-content+xml
# application/mathml-presentation+xml
# application/mbms-associated-procedure-description+xml
# application/mbms-deregister+xml
# application/mbms-envelope+xml
# application/mbms-msk+xml
# application/mbms-msk-response+xml
# application/mbms-protection-description+xml
# application/mbms-reception-report+xml
# application/mbms-register+xml
# application/mbms-register-response+xml
# application/mbms-schedule+xml
# application/mbms-user-service-description+xml
application/mbox    mbox
# application/media-policy-dataset+xml
# application/media_control+xml
application/mediaservercontrol+xml  mscml
# application/merge-patch+json
application/metalink+xml   metalink
application/metalink4+xml   meta4
application/mets+xml    mets
#
 application/mf4
# application/mikey
application/mods+xml    mods
# application/moss-keys
# application/moss-signature
# application/mosskey-data
# application/mosskey-request
application/mp21    m21 mp21
application/mp4     mp4s
# application/mpeg4-generic
# application/mpeg4-iod
# application/mpeg4-iod-xmt
# application/mrb-consumer+xml
# application/mrb-publish+xml
# application/msc-ivr+xml
# application/msc-mixer+xml
application/msword    doc dot
application/mxf     mxf
```

```
# application/nasdata
# application/news-checkgroups
# application/news-groupinfo
# application/news-transmission
# application/nlsml+xml
# application/nss
# application/ocsp-request
# application/ocsp-response
application/octet-stream bin dms lrf mar so dist distz pkg bpk dump elc deploy
application/oda     oda
# application/odx
application/oebps-package+xml   opf
application/ogg     ogx
application/omdoc+xml    omdoc
application/onenote    onetoc
 onetoc2 onetmp onepkg
application/oxps    oxps
# application/p2p-overlay+xml
# application/parityfec
application/patch-ops-error+xml   xer
application/pdf     pdf
# application/pdx
application/pgp-encrypted   pgp
# application/pgp-keys
application/pgp-signature   asc sig
application/pics-rules    prf
# application/pidf+xml
# application/pidf-diff+xml
application/pkcs10    p10
# application/pkcs12
application/pkcs7-mime    p7m p7c
application/pkcs7-signature   p7s
application/pkcs8    p8
application/pkix-attr-cert   ac
application/pkix-cert    cer
application/pkix-crl    crl
application/pkix-pkipath   pkipath
application/pkixcmp    pki
application/pls+xml    pls
# application/poc-settings+xml
application/postscript    ai eps ps
# application/ppsp-tracker+json
# application/problem+json
# application/problem+xml
# application/provenance+xml
# application/prs.alvestrand.titrax-sheet
application/prs.cww    cww
# application/prs.hpub+zip
```

```
#
 application/prs.nprend
# application/prs.plucker
# application/prs.rdf-xml-crypt
# application/prs.xsf+xml
application/pskc+xml    pskcxml
# application/qsig
# application/raptorfec
# application/rdap+json
application/rdf+xml    rdf
application/reginfo+xml    rif
application/relax-ng-compact-syntax  rnc
# application/remote-printing
# application/reputon+json
application/resource-lists+xml   rl
application/resource-lists-diff+xml  rld
# application/rfc+xml
# application/riscos
# application/rlmi+xml
application/rls-services+xml   rs
application/rpki-ghostbusters   gbr
application/rpki-manifest   mft
application/rpki-roa    roa
# application/rpki-updown
application/rsd+xml    rsd
application/rss+xml    rss
application/rtf     rtf
# application/rtploopback
# application/rtx
# application/samlassertion+xml
# application/samlmetadata+xml
application/sbml+xml    sbml
# application/scaip+xml
# application/scim+json
application/scvp-cv-request   scq
application/scvp-cv-response   scs
application/scvp-vp-request   spq
application/scvp-vp-response   spp
application/sdp     sdp
#
 application/sep+xml
# application/sep-exi
# application/session-info
# application/set-payment
application/set-payment-initiation  setpay
# application/set-registration
application/set-registration-initiation  setreg
# application/sgml
```

```
# application/sgml-open-catalog
application/shf+xml	shf
# application/sieve
# application/simple-filter+xml
# application/simple-message-summary
# application/simplesymbolcontainer
# application/slate
# application/smil
application/smil+xml	smi smil
# application/smpte336m
# application/soap+fastinfoset
# application/soap+xml
application/sparql-query	rq
application/sparql-results+xml	srx
# application/spirits-event+xml
# application/sql
application/srgs	gram
application/srgs+xml	grxml
application/sru+xml	sru
application/ssdl+xml	ssdl
application/ssml+xml	ssml
# application/tamp-apex-update
# application/tamp-apex-update-confirm
# application/tamp-community-update
#
 application/tamp-community-update-confirm
# application/tamp-error
# application/tamp-sequence-adjust
# application/tamp-sequence-adjust-confirm
# application/tamp-status-query
# application/tamp-status-response
# application/tamp-update
# application/tamp-update-confirm
application/tei+xml	tei teicorpus
application/thraud+xml	tfi
# application/timestamp-query
# application/timestamp-reply
application/timestamped-data	tsd
# application/ttml+xml
# application/tve-trigger
# application/ulpfec
# application/urc-grpsheet+xml
# application/urc-ressheet+xml
# application/urc-targetdesc+xml
# application/urc-uisocketdesc+xml
# application/vcard+json
# application/vcard+xml
# application/vemmi
```

```
# application/vividence.scriptfile
# application/vnd.3gpp-prose+xml
# application/vnd.3gpp-prose-pc3ch+xml
# application/vnd.3gpp.access-transfer-events+xml
# application/vnd.3gpp.bsf+xml
# application/vnd.3gpp.mid-call+xml
application/vnd.3gpp.pic-bw-large  plb
application/vnd.3gpp.pic-bw-small  psb
application/vnd.3gpp.pic-bw-var   pvb
#
 application/vnd.3gpp.sms
# application/vnd.3gpp.sms+xml
# application/vnd.3gpp.srvcc-ext+xml
# application/vnd.3gpp.srvcc-info+xml
# application/vnd.3gpp.state-and-event-info+xml
# application/vnd.3gpp.ussd+xml
# application/vnd.3gpp2.bcmcsinfo+xml
# application/vnd.3gpp2.sms
application/vnd.3gpp2.tcap   tcap
# application/vnd.3lightssoftware.imagescal
application/vnd.3m.post-it-notes  pwn
application/vnd.accpac.simply.aso  aso
application/vnd.accpac.simply.imp  imp
application/vnd.acucobol   acu
application/vnd.acucorp    atc acutc
application/vnd.adobe.air-application-installer-package+zip air
# application/vnd.adobe.flash.movie
application/vnd.adobe.formscentral.fcdt  fcdt
application/vnd.adobe.fxp   fxp fxpl
# application/vnd.adobe.partial-upload
application/vnd.adobe.xdp+xml   xdp
application/vnd.adobe.xfdf   xfdf
# application/vnd.aether.imp
# application/vnd.ah-barcode
application/vnd.ahead.space   ahead
application/vnd.airzip.filesecure.azf  azf
application/vnd.airzip.filesecure.azs  azs
application/vnd.amazon.ebook   azw
#
 application/vnd.amazon.mobi8-ebook
application/vnd.americandynamics.acc  acc
application/vnd.amiga.ami   ami
# application/vnd.amundsen.maze+xml
application/vnd.android.package-archive  apk
# application/vnd.anki
application/vnd.anser-web-certificate-issue-initiation cii
application/vnd.anser-web-funds-transfer-initiation fti
application/vnd.antix.game-component  atx
```

```
# application/vnd.apache.thrift.binary
# application/vnd.apache.thrift.compact
# application/vnd.apache.thrift.json
# application/vnd.api+json
application/vnd.apple.installer+xml  mpkg
application/vnd.apple.mpegurl   m3u8
# application/vnd.arastra.swi
application/vnd.aristanetworks.swi  swi
# application/vnd.artsquare
application/vnd.astraea-software.iota  iota
application/vnd.audiograph   aep
# application/vnd.autopackage
# application/vnd.avistar+xml
# application/vnd.balsamiq.bmml+xml
# application/vnd.balsamiq.bmpr
#
 application/vnd.bekitzur-stech+json
# application/vnd.biopax.rdf+xml
application/vnd.blueice.multipass  mpm
# application/vnd.bluetooth.ep.oob
# application/vnd.bluetooth.le.oob
application/vnd.bmi    bmi
application/vnd.businessobjects   rep
# application/vnd.cab-jscript
# application/vnd.canon-cpdl
# application/vnd.canon-lips
# application/vnd.cendio.thinlinc.clientconf
# application/vnd.century-systems.tcp_stream
application/vnd.chemdraw+xml   cdxml
# application/vnd.chess-pgn
application/vnd.chipnuts.karaoke-mmd  mmd
application/vnd.cinderella   cdy
# application/vnd.cirpack.isdn-ext
# application/vnd.citationstyles.style+xml
application/vnd.claymore   cla
application/vnd.cloanto.rp9   rp9
application/vnd.clonk.c4group   c4g c4d c4f c4p c4u
application/vnd.cluetrust.cartomobile-config  c11amc
application/vnd.cluetrust.cartomobile-config-pkg c11amz
# application/vnd.coffeescript
# application/vnd.collection+json
# application/vnd.collection.doc+json
# application/vnd.collection.next+json
#
 application/vnd.comicbook+zip
# application/vnd.commerce-battelle
application/vnd.commonspace   csp
application/vnd.contact.cmsg   cdbcmsg
```

```
# application/vnd.coreos.ignition+json
application/vnd.cosmocaller   cmc
application/vnd.crick.clicker   clkx
application/vnd.crick.clicker.keyboard  clkk
application/vnd.crick.clicker.palette  clkp
application/vnd.crick.clicker.template  clkt
application/vnd.crick.clicker.wordbank  clkw
application/vnd.criticaltools.wbs+xml  wbs
application/vnd.ctc-posml   pml
# application/vnd.ctct.ws+xml
# application/vnd.cups-pdf
# application/vnd.cups-postscript
application/vnd.cups-ppd   ppd
# application/vnd.cups-raster
# application/vnd.cups-raw
# application/vnd.curl
application/vnd.curl.car   car
application/vnd.curl.pcurl   pcurl
# application/vnd.cyan.dean.root+xml
# application/vnd.cybank
application/vnd.dart    dart
application/vnd.data-vision.rdz   rdz
# application/vnd.debian.binary-package
application/vnd.dece.data   uvf uvvf
 uvd uvvd
application/vnd.dece.ttml+xml   uvt uvvt
application/vnd.dece.unspecified  uvx uvvx
application/vnd.dece.zip   uvz uvvz
application/vnd.denovo.fcselayout-link  fe_launch
# application/vnd.desmume.movie
# application/vnd.dir-bi.plate-dl-nosuffix
# application/vnd.dm.delegation+xml
application/vnd.dna    dna
# application/vnd.document+json
application/vnd.dolby.mlp   mlp
# application/vnd.dolby.mobile.1
# application/vnd.dolby.mobile.2
# application/vnd.doremir.scorecloud-binary-document
application/vnd.dpgraph    dpg
application/vnd.dreamfactory   dfac
# application/vnd.drive+json
application/vnd.ds-keypoint   kpxx
# application/vnd.dtg.local
# application/vnd.dtg.local.flash
# application/vnd.dtg.local.html
application/vnd.dvb.ait    ait
# application/vnd.dvb.dvbj
# application/vnd.dvb.esgcontainer
```

```
# application/vnd.dvb.ipdcdftnotifaccess
# application/vnd.dvb.ipdcesgaccess
# application/vnd.dvb.ipdcesgaccess2
# application/vnd.dvb.ipdcesgpdd
# application/vnd.dvb.ipdcroaming
#
 application/vnd.dvb.iptv.alfec-base
# application/vnd.dvb.iptv.alfec-enhancement
# application/vnd.dvb.notif-aggregate-root+xml
# application/vnd.dvb.notif-container+xml
# application/vnd.dvb.notif-generic+xml
# application/vnd.dvb.notif-ia-msglist+xml
# application/vnd.dvb.notif-ia-registration-request+xml
# application/vnd.dvb.notif-ia-registration-response+xml
# application/vnd.dvb.notif-init+xml
# application/vnd.dvb.pfr
application/vnd.dvb.service   svc
# application/vnd.dxr
application/vnd.dynageo    geo
# application/vnd.dzr
# application/vnd.easykaraoke.cdgdownload
# application/vnd.ecdis-update
application/vnd.ecowin.chart   mag
# application/vnd.ecowin.filerequest
# application/vnd.ecowin.fileupdate
# application/vnd.ecowin.series
# application/vnd.ecowin.seriesrequest
# application/vnd.ecowin.seriesupdate
# application/vnd.emclient.accessrequest+xml
application/vnd.enliven    nml
# application/vnd.enphase.envoy
# application/vnd.eprints.data+xml
application/vnd.epson.esf   esf
application/vnd.epson.msf   msf
application/vnd.epson.quickanime  qam
application/vnd.epson.salt   slt
application/vnd.epson.ssf   ssf
#
 application/vnd.ericsson.quickcall
application/vnd.eszigno3+xml   es3 et3
# application/vnd.etsi.aoc+xml
# application/vnd.etsi.asic-e+zip
# application/vnd.etsi.asic-s+zip
# application/vnd.etsi.cug+xml
# application/vnd.etsi.iptvcommand+xml
# application/vnd.etsi.iptvdiscovery+xml
# application/vnd.etsi.iptvprofile+xml
# application/vnd.etsi.iptvsad-bc+xml
```

```
# application/vnd.etsi.iptvsad-cod+xml
# application/vnd.etsi.iptvsad-npvr+xml
# application/vnd.etsi.iptvservice+xml
# application/vnd.etsi.iptvsync+xml
# application/vnd.etsi.iptvueprofile+xml
# application/vnd.etsi.mcid+xml
# application/vnd.etsi.mheg5
# application/vnd.etsi.overload-control-policy-dataset+xml
# application/vnd.etsi.pstn+xml
# application/vnd.etsi.sci+xml
# application/vnd.etsi.simservs+xml
# application/vnd.etsi.timestamp-token
# application/vnd.etsi.tsl+xml
# application/vnd.etsi.tsl.der
#
 application/vnd.eudora.data
application/vnd.ezpix-album   ez2
application/vnd.ezpix-package   ez3
# application/vnd.f-secure.mobile
# application/vnd.fastcopy-disk-image
application/vnd.fdf    fdf
application/vnd.fdsn.mseed   mseed
application/vnd.fdsn.seed   seed dataless
# application/vnd.ffsns
# application/vnd.filmit.zfc
# application/vnd.fints
# application/vnd.firemonkeys.cloudcell
application/vnd.flographit   gph
application/vnd.fluxtime.clip   ftc
# application/vnd.font-fontforge-sfd
application/vnd.framemaker   fm frame maker book
application/vnd.frogans.fnc   fnc
application/vnd.frogans.ltf   ltf
application/vnd.fsc.weblaunch   fsc
application/vnd.fujitsu.oasys   oas
application/vnd.fujitsu.oasys2   oa2
application/vnd.fujitsu.oasys3   oa3
application/vnd.fujitsu.oasysgp   fg5
application/vnd.fujitsu.oasysprs  bh2
# application/vnd.fujixerox.art-ex
# application/vnd.fujixerox.art4
application/vnd.fujixerox.ddd   ddd
application/vnd.fujixerox.docuworks  xdw
application/vnd.fujixerox.docuworks.binder xbd
#
 application/vnd.fujixerox.docuworks.container
# application/vnd.fujixerox.hbpl
# application/vnd.fut-misnet
```

```
application/vnd.fuzzysheet   fzs
application/vnd.genomatix.tuxedo  txd
# application/vnd.geo+json
# application/vnd.geocube+xml
application/vnd.geogebra.file   ggb
application/vnd.geogebra.tool   ggt
application/vnd.geometry-explorer  gex gre
application/vnd.geonext    gxt
application/vnd.geoplan    g2w
application/vnd.geospace   g3w
# application/vnd.gerber
# application/vnd.globalplatform.card-content-mgt
# application/vnd.globalplatform.card-content-mgt-response
application/vnd.gmx    gmx
application/vnd.google-earth.kml+xml  kml
application/vnd.google-earth.kmz  kmz
# application/vnd.gov.sk.e-form+xml
# application/vnd.gov.sk.e-form+zip
# application/vnd.gov.sk.xmldatacontainer+xml
application/vnd.grafeq    gqf gqs
# application/vnd.gridmp
application/vnd.groove-account   gac
application/vnd.groove-help   ghf
application/vnd.groove-identity-message  gim
application/vnd.groove-injector   grv
application/vnd.groove-tool-message  gtm
application/vnd.groove-tool-template  tpl
application/vnd.groove-vcard   vcg
#
 application/vnd.hal+json
application/vnd.hal+xml    hal
application/vnd.handheld-entertainment+xml zmm
application/vnd.hbci    hbci
# application/vnd.hcl-bireports
# application/vnd.hdt
# application/vnd.heroku+json
application/vnd.hhe.lesson-player  les
application/vnd.hp-hpgl    hpgl
application/vnd.hp-hpid    hpid
application/vnd.hp-hps    hps
application/vnd.hp-jlyt    jlt
application/vnd.hp-pcl    pcl
application/vnd.hp-pclxl   pclxl
# application/vnd.httphone
application/vnd.hydrostatix.sof-data  sfd-hdstx
# application/vnd.hyperdrive+json
# application/vnd.hzn-3d-crossword
# application/vnd.ibm.afplinedata
```

```
# application/vnd.ibm.electronic-media
application/vnd.ibm.minipay   mpy
application/vnd.ibm.modcap   afp listafp list3820
application/vnd.ibm.rights-management  irm
application/vnd.ibm.secure-container  sc
application/vnd.iccprofile   icc
 icm
# application/vnd.ieee.1905
application/vnd.igloader   igl
application/vnd.immervision-ivp   ivp
application/vnd.immervision-ivu   ivu
# application/vnd.ims.imsccv1p1
# application/vnd.ims.imsccv1p2
# application/vnd.ims.imsccv1p3
# application/vnd.ims.lis.v2.result+json
# application/vnd.ims.lti.v2.toolconsumerprofile+json
# application/vnd.ims.lti.v2.toolproxy+json
# application/vnd.ims.lti.v2.toolproxy.id+json
# application/vnd.ims.lti.v2.toolsettings+json
# application/vnd.ims.lti.v2.toolsettings.simple+json
# application/vnd.informedcontrol.rms+xml
# application/vnd.informix-visionary
# application/vnd.infotech.project
# application/vnd.infotech.project+xml
# application/vnd.innopath.wamp.notification
application/vnd.insors.igm   igm
application/vnd.intercon.formnet  xpw xpx
application/vnd.intergeo   i2g
# application/vnd.intertrust.digibox
# application/vnd.intertrust.nncp
application/vnd.intu.qbo   qbo
application/vnd.intu.qfx   qfx
#
 application/vnd.iptc.g2.catalogitem+xml
# application/vnd.iptc.g2.conceptitem+xml
# application/vnd.iptc.g2.knowledgeitem+xml
# application/vnd.iptc.g2.newsitem+xml
# application/vnd.iptc.g2.newsmessage+xml
# application/vnd.iptc.g2.packageitem+xml
# application/vnd.iptc.g2.planningitem+xml
application/vnd.ipunplugged.rcprofile  rcprofile
application/vnd.irepository.package+xml  irp
application/vnd.is-xpr    xpr
application/vnd.isac.fcs   fcs
application/vnd.jam    jam
# application/vnd.japannet-directory-service
# application/vnd.japannet-jpnstore-wakeup
# application/vnd.japannet-payment-wakeup
```

```
# application/vnd.japannet-registration
# application/vnd.japannet-registration-wakeup
# application/vnd.japannet-setstore-wakeup
# application/vnd.japannet-verification
# application/vnd.japannet-verification-wakeup
application/vnd.jcp.javame.midlet-rms  rms
application/vnd.jisp    jisp
application/vnd.joost.joda-archive  joda
# application/vnd.jsk.isdn-ngn
application/vnd.kahootz    ktz
 ktr
application/vnd.kde.karbon   karbon
application/vnd.kde.kchart   chrt
application/vnd.kde.kformula   kfo
application/vnd.kde.kivio   flw
application/vnd.kde.kontour   kon
application/vnd.kde.kpresenter   kpr kpt
application/vnd.kde.kspread   ksp
application/vnd.kde.kword   kwd kwt
application/vnd.kenameaapp   htke
application/vnd.kidspiration   kia
application/vnd.kinar    kne knp
application/vnd.koan    skp skd skt skm
application/vnd.kodak-descriptor  sse
application/vnd.las.las+xml   lasxml
# application/vnd.liberty-request+xml
application/vnd.llamagraphics.life-balance.desktop lbd
application/vnd.llamagraphics.life-balance.exchange+xml lbe
application/vnd.lotus-1-2-3   123
application/vnd.lotus-approach   apr
application/vnd.lotus-freelance   pre
application/vnd.lotus-notes   nsf
application/vnd.lotus-organizer   org
application/vnd.lotus-screencam   scm
application/vnd.lotus-wordpro   lwp
application/vnd.macports.portpkg  portpkg
# application/vnd.mapbox-vector-tile
# application/vnd.marlin.drm.actiontoken+xml
#
 application/vnd.marlin.drm.conftoken+xml
# application/vnd.marlin.drm.license+xml
# application/vnd.marlin.drm.mdcf
# application/vnd.mason+json
# application/vnd.maxmind.maxmind-db
application/vnd.mcd    mcd
application/vnd.medcalcdata   mc1
application/vnd.mediastation.cdkey  cdkey
# application/vnd.meridian-slingshot
```

```
application/vnd.mfer    mwf
application/vnd.mfmp    mfm
# application/vnd.micro+json
application/vnd.micrografx.flo   flo
application/vnd.micrografx.igx   igx
# application/vnd.microsoft.portable-executable
# application/vnd.miele+json
application/vnd.mif    mif
# application/vnd.minisoft-hp3000-save
# application/vnd.mitsubishi.misty-guard.trustweb
application/vnd.mobius.daf   daf
application/vnd.mobius.dis   dis
application/vnd.mobius.mbk   mbk
application/vnd.mobius.mqy   mqy
application/vnd.mobius.msl   msl
application/vnd.mobius.plc   plc
application/vnd.mobius.txf   txf
application/vnd.mophun.application  mpn
application/vnd.mophun.certificate  mpc
#
 application/vnd.motorola.flexsuite
# application/vnd.motorola.flexsuite.adsi
# application/vnd.motorola.flexsuite.fis
# application/vnd.motorola.flexsuite.gotap
# application/vnd.motorola.flexsuite.kmr
# application/vnd.motorola.flexsuite.ttc
# application/vnd.motorola.flexsuite.wem
# application/vnd.motorola.iprm
application/vnd.mozilla.xul+xml   xul
# application/vnd.ms-3mfdocument
application/vnd.ms-artgalry   cil
# application/vnd.ms-asf
application/vnd.ms-cab-compressed  cab
# application/vnd.ms-color.iccprofile
application/vnd.ms-excel   xls xlm xla xlc xlt xlw
application/vnd.ms-excel.addin.macroenabled.12  xlam
application/vnd.ms-excel.sheet.binary.macroenabled.12 xlsb
application/vnd.ms-excel.sheet.macroenabled.12  xlsm
application/vnd.ms-excel.template.macroenabled.12 xltm
application/vnd.ms-fontobject   eot
application/vnd.ms-htmlhelp   chm
application/vnd.ms-ims    ims
application/vnd.ms-lrm    lrm
# application/vnd.ms-office.activex+xml
application/vnd.ms-officetheme   thmx
#
 application/vnd.ms-opentype
# application/vnd.ms-package.obfuscated-opentype
```

```
application/vnd.ms-pki.seccat   cat
application/vnd.ms-pki.stl   stl
# application/vnd.ms-playready.initiator+xml
application/vnd.ms-powerpoint   ppt pps pot
application/vnd.ms-powerpoint.addin.macroenabled.12  ppam
application/vnd.ms-powerpoint.presentation.macroenabled.12 pptm
application/vnd.ms-powerpoint.slide.macroenabled.12  sldm
application/vnd.ms-powerpoint.slideshow.macroenabled.12  ppsm
application/vnd.ms-powerpoint.template.macroenabled.12  potm
# application/vnd.ms-printdevicecapabilities+xml
# application/vnd.ms-printing.printticket+xml
# application/vnd.ms-printschematicket+xml
application/vnd.ms-project   mpp mpt
# application/vnd.ms-tnef
# application/vnd.ms-windows.devicepairing
# application/vnd.ms-windows.nwprinting.oob
# application/vnd.ms-windows.printerpairing
# application/vnd.ms-windows.wsd.oob
# application/vnd.ms-wmdrm.lic-chlg-req
# application/vnd.ms-wmdrm.lic-resp
#
 application/vnd.ms-wmdrm.meter-chlg-req
# application/vnd.ms-wmdrm.meter-resp
application/vnd.ms-word.document.macroenabled.12 docm
application/vnd.ms-word.template.macroenabled.12 dotm
application/vnd.ms-works   wps wks wcm wdb
application/vnd.ms-wpl    wpl
application/vnd.ms-xpsdocument   xps
# application/vnd.msa-disk-image
application/vnd.mseq    mseq
# application/vnd.msign
# application/vnd.multiad.creator
# application/vnd.multiad.creator.cif
# application/vnd.music-niff
application/vnd.musician   mus
application/vnd.muvee.style   msty
application/vnd.mynfc    taglet
# application/vnd.ncd.control
# application/vnd.ncd.reference
# application/vnd.nervana
# application/vnd.netfpx
application/vnd.neurolanguage.nlu  nlu
# application/vnd.nintendo.nitro.rom
# application/vnd.nintendo.snes.rom
application/vnd.nitf    ntf nitf
application/vnd.noblenet-directory  nnd
application/vnd.noblenet-sealer   nns
application/vnd.noblenet-web   nnw
```

```
# application/vnd.nokia.catalogs
#
 application/vnd.nokia.conml+wbxml
# application/vnd.nokia.conml+xml
# application/vnd.nokia.iptv.config+xml
# application/vnd.nokia.isds-radio-presets
# application/vnd.nokia.landmark+wbxml
# application/vnd.nokia.landmark+xml
# application/vnd.nokia.landmarkcollection+xml
# application/vnd.nokia.n-gage.ac+xml
application/vnd.nokia.n-gage.data  ngdat
application/vnd.nokia.n-gage.symbian.install n-gage
# application/vnd.nokia.ncd
# application/vnd.nokia.pcd+wbxml
# application/vnd.nokia.pcd+xml
application/vnd.nokia.radio-preset  rpst
application/vnd.nokia.radio-presets  rpss
application/vnd.novadigm.edm   edm
application/vnd.novadigm.edx   edx
application/vnd.novadigm.ext   ext
# application/vnd.ntt-local.content-share
# application/vnd.ntt-local.file-transfer
# application/vnd.ntt-local.ogw_remote-access
# application/vnd.ntt-local.sip-ta_remote
# application/vnd.ntt-local.sip-ta_tcp_stream
application/vnd.oasis.opendocument.chart  odc
application/vnd.oasis.opendocument.chart-template otc
application/vnd.oasis.opendocument.database  odb
application/vnd.oasis.opendocument.formula  odf
application/vnd.oasis.opendocument.formula-template odft
application/vnd.oasis.opendocument.graphics  odg
application/vnd.oasis.opendocument.graphics-template otg
application/vnd.oasis.opendocument.image  odi
application/vnd.oasis.opendocument.image-template oti
application/vnd.oasis.opendocument.presentation  odp
application/vnd.oasis.opendocument.presentation-template otp
application/vnd.oasis.opendocument.spreadsheet  ods
application/vnd.oasis.opendocument.spreadsheet-template ots
application/vnd.oasis.opendocument.text   odt
application/vnd.oasis.opendocument.text-master  odm
application/vnd.oasis.opendocument.text-template ott
application/vnd.oasis.opendocument.text-web  oth
#
 application/vnd.obn
# application/vnd.oftn.l10n+json
# application/vnd.oipf.contentaccessdownload+xml
# application/vnd.oipf.contentaccessstreaming+xml
# application/vnd.oipf.cspg-hexbinary
```

```
# application/vnd.oipf.dae.svg+xml
#
 application/vnd.oipf.dae.xhtml+xml
# application/vnd.oipf.mippvcontrolmessage+xml
# application/vnd.oipf.pae.gem
# application/vnd.oipf.spdiscovery+xml
# application/vnd.oipf.spdlist+xml
# application/vnd.oipf.ueprofile+xml
# application/vnd.oipf.userprofile+xml
application/vnd.olpc-sugar   xo
# application/vnd.oma-scws-config
# application/vnd.oma-scws-http-request
# application/vnd.oma-scws-http-response
# application/vnd.oma.bcast.associated-procedure-parameter+xml
# application/vnd.oma.bcast.drm-trigger+xml
# application/vnd.oma.bcast.imd+xml
# application/vnd.oma.bcast.ltkm
# application/vnd.oma.bcast.notification+xml
# application/vnd.oma.bcast.provisioningtrigger
# application/vnd.oma.bcast.sgboot
# application/vnd.oma.bcast.sgdd+xml
# application/vnd.oma.bcast.sgdu
# application/vnd.oma.bcast.simple-symbol-container
# application/vnd.oma.bcast.smartcard-trigger+xml
# application/vnd.oma.bcast.sprov+xml
# application/vnd.oma.bcast.stkm
# application/vnd.oma.cab-address-book+xml
#
 application/vnd.oma.cab-feature-handler+xml
# application/vnd.oma.cab-pcc+xml
# application/vnd.oma.cab-subs-invite+xml
# application/vnd.oma.cab-user-prefs+xml
# application/vnd.oma.dcd
# application/vnd.oma.dcdc
application/vnd.oma.dd2+xml   dd2
# application/vnd.oma.drm.risd+xml
# application/vnd.oma.group-usage-list+xml
# application/vnd.oma.lwm2m+json
# application/vnd.oma.lwm2m+tlv
# application/vnd.oma.pal+xml
# application/vnd.oma.poc.detailed-progress-report+xml
# application/vnd.oma.poc.final-report+xml
# application/vnd.oma.poc.groups+xml
# application/vnd.oma.poc.invocation-descriptor+xml
# application/vnd.oma.poc.optimized-progress-report+xml
# application/vnd.oma.push
# application/vnd.oma.scidm.messages+xml
# application/vnd.oma.xcap-directory+xml
```

application/vnd.omads-email+xml
application/vnd.omads-file+xml
application/vnd.omads-folder+xml
application/vnd.omaloc-supl-init
application/vnd.onepager
application/vnd.openblox.game+xml
#
application/vnd.openblox.game-binary
application/vnd.openeye.oeb
application/vnd.openofficeorg.extension oxt
application/vnd.openxmlformats-officedocument.custom-properties+xml
application/vnd.openxmlformats-officedocument.customxmlproperties+xml
application/vnd.openxmlformats-officedocument.drawing+xml
application/vnd.openxmlformats-officedocument.drawingml.chart+xml
application/vnd.openxmlformats-officedocument.drawingml.chartshapes+xml
application/vnd.openxmlformats-officedocument.drawingml.diagramcolors+xml
application/vnd.openxmlformats-officedocument.drawingml.diagramdata+xml
application/vnd.openxmlformats-officedocument.drawingml.diagramlayout+xml
application/vnd.openxmlformats-officedocument.drawingml.diagramstyle+xml
application/vnd.openxmlformats-officedocument.extended-properties+xml
application/vnd.openxmlformats-officedocument.presentationml.commentauthors+xml
application/vnd.openxmlformats-officedocument.presentationml.comments+xml
application/vnd.openxmlformats-officedocument.presentationml.handoutmaster+xml
#
application/vnd.openxmlformats-officedocument.presentationml.notesmaster+xml
application/vnd.openxmlformats-officedocument.presentationml.notesslide+xml
application/vnd.openxmlformats-officedocument.presentationml.presentation pptx
application/vnd.openxmlformats-officedocument.presentationml.presentation.main+xml
application/vnd.openxmlformats-officedocument.presentationml.presprops+xml
application/vnd.openxmlformats-officedocument.presentationml.slide sldx
application/vnd.openxmlformats-officedocument.presentationml.slide+xml
application/vnd.openxmlformats-officedocument.presentationml.slidelayout+xml
application/vnd.openxmlformats-officedocument.presentationml.slidemaster+xml
application/vnd.openxmlformats-officedocument.presentationml.slideshow ppsx
application/vnd.openxmlformats-officedocument.presentationml.slideshow.main+xml
application/vnd.openxmlformats-officedocument.presentationml.slideupdateinfo+xml
#
application/vnd.openxmlformats-officedocument.presentationml.tablestyles+xml
application/vnd.openxmlformats-officedocument.presentationml.tags+xml
application/vnd.openxmlformats-officedocument.presentationml.template potx
application/vnd.openxmlformats-officedocument.presentationml.template.main+xml
application/vnd.openxmlformats-officedocument.presentationml.viewprops+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.calcchain+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.chartsheet+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.comments+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.connections+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.dialogsheet+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.externallink+xml

```
# application/vnd.openxmlformats-officedocument.spreadsheetml.pivotcachedefinition+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.pivotcacherecords+xml
#
 application/vnd.openxmlformats-officedocument.spreadsheetml.pivottable+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.querytable+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.revisionheaders+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.revisionlog+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.sharedstrings+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.sheet xlsx
# application/vnd.openxmlformats-officedocument.spreadsheetml.sheet.main+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.sheetmetadata+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.styles+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.table+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.tablesinglecells+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.template xltx
# application/vnd.openxmlformats-officedocument.spreadsheetml.template.main+xml
#
 application/vnd.openxmlformats-officedocument.spreadsheetml.usernames+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.volatiledependencies+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.worksheet+xml
# application/vnd.openxmlformats-officedocument.theme+xml
# application/vnd.openxmlformats-officedocument.themeoverride+xml
# application/vnd.openxmlformats-officedocument.vmldrawing
# application/vnd.openxmlformats-officedocument.wordprocessingml.comments+xml
application/vnd.openxmlformats-officedocument.wordprocessingml.document docx
# application/vnd.openxmlformats-officedocument.wordprocessingml.document.glossary+xml
# application/vnd.openxmlformats-officedocument.wordprocessingml.document.main+xml
# application/vnd.openxmlformats-officedocument.wordprocessingml.endnotes+xml
# application/vnd.openxmlformats-officedocument.wordprocessingml.fonttable+xml
# application/vnd.openxmlformats-officedocument.wordprocessingml.footer+xml
#
 application/vnd.openxmlformats-officedocument.wordprocessingml.footnotes+xml
# application/vnd.openxmlformats-officedocument.wordprocessingml.numbering+xml
# application/vnd.openxmlformats-officedocument.wordprocessingml.settings+xml
# application/vnd.openxmlformats-officedocument.wordprocessingml.styles+xml
application/vnd.openxmlformats-officedocument.wordprocessingml.template dotx
# application/vnd.openxmlformats-officedocument.wordprocessingml.template.main+xml
# application/vnd.openxmlformats-officedocument.wordprocessingml.websettings+xml
# application/vnd.openxmlformats-package.core-properties+xml
# application/vnd.openxmlformats-package.digital-signature-xmlsignature+xml
# application/vnd.openxmlformats-package.relationships+xml
# application/vnd.oracle.resource+json
# application/vnd.orange.indata
# application/vnd.osa.netdeploy
application/vnd.osgeo.mapguide.package  mgp
# application/vnd.osgi.bundle
application/vnd.osgi.dp    dp
application/vnd.osgi.subsystem   esa
```

```
#
 application/vnd.otps.ct-kip+xml
# application/vnd.oxli.countgraph
# application/vnd.pagerduty+json
application/vnd.palm    pdb pqa oprc
# application/vnd.panoply
# application/vnd.paos.xml
application/vnd.pawaafile   paw
# application/vnd.pcos
application/vnd.pg.format   str
application/vnd.pg.osasli   ei6
# application/vnd.piaccess.application-licence
application/vnd.picsel    efif
application/vnd.pmi.widget   wg
# application/vnd.poc.group-advertisement+xml
application/vnd.pocketlearn   plf
application/vnd.powerbuilder6   pbd
# application/vnd.powerbuilder6-s
# application/vnd.powerbuilder7
# application/vnd.powerbuilder7-s
# application/vnd.powerbuilder75
# application/vnd.powerbuilder75-s
# application/vnd.preminet
application/vnd.previewsystems.box  box
application/vnd.proteus.magazine  mgz
application/vnd.publishare-delta-tree  qps
application/vnd.pvi.ptid1   ptid
# application/vnd.pwg-multiplexed
# application/vnd.pwg-xhtml-print+xml
# application/vnd.qualcomm.brew-app-res
#
 application/vnd.quarantainenet
application/vnd.quark.quarkxpress  qxd qxt qwd qwt qxl qxb
# application/vnd.quobject-quoxdocument
# application/vnd.radisys.moml+xml
# application/vnd.radisys.msml+xml
# application/vnd.radisys.msml-audit+xml
# application/vnd.radisys.msml-audit-conf+xml
# application/vnd.radisys.msml-audit-conn+xml
# application/vnd.radisys.msml-audit-dialog+xml
# application/vnd.radisys.msml-audit-stream+xml
# application/vnd.radisys.msml-conf+xml
# application/vnd.radisys.msml-dialog+xml
# application/vnd.radisys.msml-dialog-base+xml
# application/vnd.radisys.msml-dialog-fax-detect+xml
# application/vnd.radisys.msml-dialog-fax-sendrecv+xml
# application/vnd.radisys.msml-dialog-group+xml
# application/vnd.radisys.msml-dialog-speech+xml
```

```
# application/vnd.radisys.msml-dialog-transform+xml
# application/vnd.rainstor.data
# application/vnd.rapid
# application/vnd.rar
application/vnd.realvnc.bed   bed
application/vnd.recordare.musicxml  mxl
application/vnd.recordare.musicxml+xml  musicxml
#
 application/vnd.renlearn.rlprint
application/vnd.rig.cryptonote   cryptonote
application/vnd.rim.cod    cod
application/vnd.rn-realmedia   rm
application/vnd.rn-realmedia-vbr  rmvb
application/vnd.route66.link66+xml  link66
# application/vnd.rs-274x
# application/vnd.ruckus.download
# application/vnd.s3sms
application/vnd.sailingtracker.track  st
# application/vnd.sbm.cid
# application/vnd.sbm.mid2
# application/vnd.scribus
# application/vnd.sealed.3df
# application/vnd.sealed.csf
# application/vnd.sealed.doc
# application/vnd.sealed.eml
# application/vnd.sealed.mht
# application/vnd.sealed.net
# application/vnd.sealed.ppt
# application/vnd.sealed.tiff
# application/vnd.sealed.xls
# application/vnd.sealedmedia.softseal.html
# application/vnd.sealedmedia.softseal.pdf
application/vnd.seemail    see
application/vnd.sema    sema
application/vnd.semd    semd
application/vnd.semf    semf
application/vnd.shana.informed.formdata  ifm
application/vnd.shana.informed.formtemplate itp
application/vnd.shana.informed.interchange iif
application/vnd.shana.informed.package  ipk
application/vnd.simtech-mindmapper  twd
 twds
# application/vnd.siren+json
application/vnd.smaf    mmf
# application/vnd.smart.notebook
application/vnd.smart.teacher   teacher
# application/vnd.software602.filler.form+xml
# application/vnd.software602.filler.form-xml-zip
```

```
application/vnd.solent.sdkm+xml   sdkm sdkd
application/vnd.spotfire.dxp   dxp
application/vnd.spotfire.sfs   sfs
# application/vnd.sss-cod
# application/vnd.sss-dtf
# application/vnd.sss-ntf
application/vnd.stardivision.calc  sdc
application/vnd.stardivision.draw  sda
application/vnd.stardivision.impress  sdd
application/vnd.stardivision.math  smf
application/vnd.stardivision.writer  sdw vor
application/vnd.stardivision.writer-global sgl
application/vnd.stepmania.package  smzip
application/vnd.stepmania.stepchart  sm
# application/vnd.street-stream
# application/vnd.sun.wadl+xml
application/vnd.sun.xml.calc   sxc
application/vnd.sun.xml.calc.template  stc
application/vnd.sun.xml.draw   sxd
application/vnd.sun.xml.draw.template  std
application/vnd.sun.xml.impress   sxi
application/vnd.sun.xml.impress.template sti
application/vnd.sun.xml.math   sxm
application/vnd.sun.xml.writer   sxw
application/vnd.sun.xml.writer.global  sxg
application/vnd.sun.xml.writer.template  stw
application/vnd.sus-calendar   sus
 susp
application/vnd.svd    svd
# application/vnd.swiftview-ics
application/vnd.symbian.install   sis sisx
application/vnd.syncml+xml   xsm
application/vnd.syncml.dm+wbxml   bdm
application/vnd.syncml.dm+xml   xdm
# application/vnd.syncml.dm.notification
# application/vnd.syncml.dmddf+wbxml
# application/vnd.syncml.dmddf+xml
# application/vnd.syncml.dmtnds+wbxml
# application/vnd.syncml.dmtnds+xml
# application/vnd.syncml.ds.notification
application/vnd.tao.intent-module-archive tao
application/vnd.tcpdump.pcap   pcap cap dmp
# application/vnd.tmd.mediaflex.api+xml
# application/vnd.tml
application/vnd.tmobile-livetv   tmo
application/vnd.trid.tpt   tpt
application/vnd.triscape.mxs   mxs
application/vnd.trueapp    tra
```

```
#
 application/vnd.truedoc
# application/vnd.ubisoft.webplayer
application/vnd.ufdl    ufd ufdl
application/vnd.uiq.theme   utz
application/vnd.umajin    umj
application/vnd.unity    unityweb
application/vnd.uoml+xml   uoml
# application/vnd.uplanet.alert
# application/vnd.uplanet.alert-wbxml
# application/vnd.uplanet.bearer-choice
# application/vnd.uplanet.bearer-choice-wbxml
# application/vnd.uplanet.cacheop
# application/vnd.uplanet.cacheop-wbxml
# application/vnd.uplanet.channel
# application/vnd.uplanet.channel-wbxml
# application/vnd.uplanet.list
# application/vnd.uplanet.list-wbxml
# application/vnd.uplanet.listcmd
# application/vnd.uplanet.listcmd-wbxml
# application/vnd.uplanet.signal
# application/vnd.uri-map
# application/vnd.valve.source.material
application/vnd.vcx    vcx
# application/vnd.vd-study
# application/vnd.vectorworks
# application/vnd.vel+json
#
 application/vnd.verimatrix.vcas
# application/vnd.vidsoft.vidconference
application/vnd.visio    vsd vst vss vsw
application/vnd.visionary   vis
# application/vnd.vividence.scriptfile
application/vnd.vsf    vsf
# application/vnd.wap.sic
# application/vnd.wap.slc
application/vnd.wap.wbxml   wbxml
application/vnd.wap.wmlc   wmlc
application/vnd.wap.wmlscriptc   wmlsc
application/vnd.webturbo   wtb
# application/vnd.wfa.p2p
# application/vnd.wfa.wsc
# application/vnd.windows.devicepairing
# application/vnd.wmc
# application/vnd.wmf.bootstrap
# application/vnd.wolfram.mathematica
# application/vnd.wolfram.mathematica.package
application/vnd.wolfram.player   nbp
```

```
application/vnd.wordperfect   wpd
application/vnd.wqd    wqd
# application/vnd.wrq-hp3000-labelled
application/vnd.wt.stf    stf
# application/vnd.wv.csp+wbxml
# application/vnd.wv.csp+xml
# application/vnd.wv.ssp+xml
# application/vnd.xacml+json
application/vnd.xara    xar
application/vnd.xfdl    xfdl
# application/vnd.xfdl.webform
#
 application/vnd.xmi+xml
# application/vnd.xmpie.cpkg
# application/vnd.xmpie.dpkg
# application/vnd.xmpie.plan
# application/vnd.xmpie.ppkg
# application/vnd.xmpie.xlim
application/vnd.yamaha.hv-dic   hvd
application/vnd.yamaha.hv-script  hvs
application/vnd.yamaha.hv-voice   hvp
application/vnd.yamaha.openscoreformat   osf
application/vnd.yamaha.openscoreformat.osfpvg+xml osfpvg
# application/vnd.yamaha.remote-setup
application/vnd.yamaha.smaf-audio  saf
application/vnd.yamaha.smaf-phrase  spf
# application/vnd.yamaha.through-ngn
# application/vnd.yamaha.tunnel-udpencap
# application/vnd.yaoweme
application/vnd.yellowriver-custom-menu  cmp
application/vnd.zul    zir zirz
application/vnd.zzazz.deck+xml   zaz
application/voicexml+xml   vxml
# application/vq-rtcpxr
# application/watcherinfo+xml
# application/whoispp-query
# application/whoispp-response
application/widget    wgt
application/winhlp    hlp
# application/wita
# application/wordperfect5.1
application/wsdl+xml    wsdl
application/wspolicy+xml   wspolicy
application/x-7z-compressed   7z
application/x-abiword    abw
application/x-ace-compressed   ace
#
```

```
 application/x-amf
application/x-apple-diskimage   dmg
application/x-authorware-bin   aab x32 u32 vox
application/x-authorware-map   aam
application/x-authorware-seg   aas
application/x-bcpio    bcpio
application/x-bittorrent   torrent
application/x-blorb    blb blorb
application/x-bzip    bz
application/x-bzip2    bz2 boz
application/x-cbr    cbr cba cbt cbz cb7
application/x-cdlink    vcd
application/x-cfs-compressed   cfs
application/x-chat    chat
application/x-chess-pgn    pgn
# application/x-compress
application/x-conference   nsc
application/x-cpio    cpio
application/x-csh    csh
application/x-debian-package   deb udeb
application/x-dgc-compressed   dgc
application/x-director   dir dcr dxr cst cct cxt w3d fgd swa
application/x-doom    wad
application/x-dtbncx+xml   ncx
application/x-dtbook+xml   dtb
application/x-dtbresource+xml   res
application/x-dvi    dvi
application/x-envoy    evy
application/x-eva    eva
application/x-font-bdf    bdf
#
 application/x-font-dos
# application/x-font-framemaker
application/x-font-ghostscript   gsf
# application/x-font-libgrx
application/x-font-linux-psf   psf
application/x-font-otf    otf
application/x-font-pcf    pcf
application/x-font-snf    snf
# application/x-font-speedo
# application/x-font-sunos-news
application/x-font-ttf    ttf ttc
application/x-font-type1   pfa pfb pfm afm
# application/x-font-vfont
application/x-freearc    arc
application/x-futuresplash   spl
application/x-gca-compressed   gca
application/x-glulx    ulx
```

application/x-gnumeric gnumeric
application/x-gramps-xml gramps
application/x-gtar gtar
application/x-gzip
application/x-hdf hdf
application/x-install-instructions install
application/x-iso9660-image iso
application/x-java-jnlp-file jnlp
application/x-latex latex
application/x-lzh-compressed lzh lha
application/x-mie mie
application/x-mobipocket-ebook prc
mobi
application/x-ms-application application
application/x-ms-shortcut lnk
application/x-ms-wmd wmd
application/x-ms-wmz wmz
application/x-ms-xbap xbap
application/x-msaccess mdb
application/x-msbinder obd
application/x-mscardfile crd
application/x-msclip clp
application/x-msdownload exe dll com bat msi
application/x-msmediaview mvb m13 m14
application/x-msmetafile wmf wmz emf emz
application/x-msmoney mny
application/x-mspublisher pub
application/x-msschedule scd
application/x-msterminal trm
application/x-mswrite wri
application/x-netcdf nc cdf
application/x-nzb nzb
application/x-pkcs12 p12 pfx
application/x-pkcs7-certificates p7b spc
application/x-pkcs7-certreqresp p7r
application/x-rar-compressed rar
application/x-research-info-systems ris
application/x-sh sh
application/x-shar shar
application/x-shockwave-flash swf
application/x-silverlight-app xap
application/x-sql sql
application/x-stuffit sit
application/x-stuffitx sitx
application/x-subrip srt
application/x-sv4cpio sv4cpio
application/x-sv4crc sv4crc
application/x-t3vm-image t3

```
application/x-tads    gam
application/x-tar    tar
application/x-tcl    tcl
application/x-tex    tex
application/x-tex-tfm    tfm
application/x-texinfo    texinfo
 texi
application/x-tgif    obj
application/x-ustar    ustar
application/x-wais-source   src
# application/x-www-form-urlencoded
application/x-x509-ca-cert   der crt
application/x-xfig    fig
application/x-xliff+xml    xlf
application/x-xpinstall    xpi
application/x-xz    xz
application/x-zmachine    z1 z2 z3 z4 z5 z6 z7 z8
# application/x400-bp
# application/xacml+xml
application/xaml+xml    xaml
# application/xcap-att+xml
# application/xcap-caps+xml
application/xcap-diff+xml   xdf
# application/xcap-el+xml
# application/xcap-error+xml
# application/xcap-ns+xml
# application/xcon-conference-info+xml
# application/xcon-conference-info-diff+xml
application/xenc+xml    xenc
application/xhtml+xml    xhtml
 xht
# application/xhtml-voice+xml
application/xml     xml xsl
application/xml-dtd    dtd
# application/xml-external-parsed-entity
# application/xml-patch+xml
# application/xmpp+xml
application/xop+xml    xop
application/xproc+xml    xpl
application/xslt+xml    xslt
application/xspf+xml    xspf
application/xv+xml    mxml xhvml xvml xvm
application/yang    yang
application/yin+xml    yin
application/zip     zip
# application/zlib
# audio/1d-interleaved-parityfec
# audio/32kadpcm
```

audio/3gpp
audio/3gpp2
audio/ac3
audio/adpcm adp
audio/amr
audio/amr-wb
audio/amr-wb+
audio/aptx
audio/asc
audio/atrac-advanced-lossless
audio/atrac-x
audio/atrac3
audio/basic au snd
audio/bv16
audio/bv32
audio/clearmode
audio/cn
audio/dat12
audio/dls
audio/dsr-es201108
audio/dsr-es202050
audio/dsr-es202211
audio/dsr-es202212
audio/dv
audio/dvi4
audio/eac3
audio/encaprtp
audio/evrc
audio/evrc-qcp
audio/evrc0
audio/evrc1
#
audio/evrcb
audio/evrcb0
audio/evrcb1
audio/evrcnw
audio/evrcnw0
audio/evrcnw1
audio/evrcwb
audio/evrcwb0
audio/evrcwb1
audio/evs
audio/example
audio/fwdred
audio/g711-0
audio/g719
audio/g722
audio/g7221

```
# audio/g723
# audio/g726-16
# audio/g726-24
# audio/g726-32
# audio/g726-40
# audio/g728
# audio/g729
# audio/g7291
# audio/g729d
# audio/g729e
# audio/gsm
# audio/gsm-efr
# audio/gsm-hr-08
# audio/ilbc
# audio/ip-mr_v2.5
# audio/isac
# audio/l16
# audio/l20
# audio/l24
# audio/l8
# audio/lpc
audio/midi     mid midi kar rmi
# audio/mobile-xmf
audio/mp4     m4a mp4a
# audio/mp4a-latm
# audio/mpa
# audio/mpa-robust
audio/mpeg     mpga mp2 mp2a mp3 m2a m3a
# audio/mpeg4-generic
# audio/musepack
audio/ogg     oga ogg spx
# audio/opus
# audio/parityfec
# audio/pcma
# audio/pcma-wb
# audio/pcmu
# audio/pcmu-wb
# audio/prs.sid
# audio/qcelp
# audio/raptorfec
# audio/red
# audio/rtp-enc-aescm128
# audio/rtp-midi
# audio/rtploopback
# audio/rtx
audio/s3m     s3m
audio/silk     sil
#
```

```
 audio/smv
# audio/smv-qcp
# audio/smv0
# audio/sp-midi
# audio/speex
# audio/t140c
# audio/t38
# audio/telephone-event
# audio/tone
# audio/uemclip
# audio/ulpfec
# audio/vdvi
# audio/vmr-wb
# audio/vnd.3gpp.iufp
# audio/vnd.4sb
# audio/vnd.audiokoz
# audio/vnd.celp
# audio/vnd.cisco.nse
# audio/vnd.cmles.radio-events
# audio/vnd.cns.anp1
# audio/vnd.cns.inf1
audio/vnd.dece.audio    uva uvva
audio/vnd.digital-winds    eol
# audio/vnd.dlna.adts
# audio/vnd.dolby.heaac.1
# audio/vnd.dolby.heaac.2
# audio/vnd.dolby.mlp
# audio/vnd.dolby.mps
# audio/vnd.dolby.pl2
# audio/vnd.dolby.pl2x
# audio/vnd.dolby.pl2z
# audio/vnd.dolby.pulse.1
audio/vnd.dra     dra
audio/vnd.dts     dts
audio/vnd.dts.hd    dtshd
# audio/vnd.dvb.file
# audio/vnd.everad.plj
# audio/vnd.hns.audio
audio/vnd.lucent.voice    lvp
audio/vnd.ms-playready.media.pya  pya
# audio/vnd.nokia.mobile-xmf
# audio/vnd.nortel.vbk
audio/vnd.nuera.ecelp4800   ecelp4800
audio/vnd.nuera.ecelp7470   ecelp7470
audio/vnd.nuera.ecelp9600   ecelp9600
#
 audio/vnd.octel.sbc
# audio/vnd.qcelp
```

```
# audio/vnd.rhetorex.32kadpcm
audio/vnd.rip     rip
# audio/vnd.sealedmedia.softseal.mpeg
# audio/vnd.vmx.cvsd
# audio/vorbis
# audio/vorbis-config
audio/webm     weba
audio/x-aac     aac
audio/x-aiff     aif aiff aifc
audio/x-caf     caf
audio/x-flac     flac
audio/x-matroska    mka
audio/x-mpegurl     m3u
audio/x-ms-wax     wax
audio/x-ms-wma     wma
audio/x-pn-realaudio    ram ra
audio/x-pn-realaudio-plugin   rmp
# audio/x-tta
audio/x-wav     wav
audio/xm     xm
chemical/x-cdx     cdx
chemical/x-cif     cif
chemical/x-cmdf     cmdf
chemical/x-cml     cml
chemical/x-csml     csml
# chemical/x-pdb
chemical/x-xyz     xyz
image/bmp     bmp
image/cgm     cgm
# image/dicom-rle
# image/emf
# image/example
# image/fits
image/g3fax     g3
image/gif     gif
image/ief     ief
# image/jls
# image/jp2
image/jpeg     jpeg jpg jpe
# image/jpm
# image/jpx
image/ktx     ktx
# image/naplps
image/png     png
image/prs.btif     btif
#
 image/prs.pti
# image/pwg-raster
```

```
image/sgi     sgi
image/svg+xml     svg svgz
# image/t38
image/tiff     tiff tif
# image/tiff-fx
image/vnd.adobe.photoshop   psd
# image/vnd.airzip.accelerator.azv
# image/vnd.cns.inf2
image/vnd.dece.graphic    uvi uvvi uvg uvvg
image/vnd.djvu     djvu djv
image/vnd.dvb.subtitle    sub
image/vnd.dwg     dwg
image/vnd.dxf     dxf
image/vnd.fastbidsheet    fbs
image/vnd.fpx     fpx
image/vnd.fst     fst
image/vnd.fujixerox.edmics-mmr   mmr
image/vnd.fujixerox.edmics-rlc   rlc
# image/vnd.globalgraphics.pgb
# image/vnd.microsoft.icon
# image/vnd.mix
# image/vnd.mozilla.apng
image/vnd.ms-modi    mdi
image/vnd.ms-photo    wdp
image/vnd.net-fpx    npx
# image/vnd.radiance
# image/vnd.sealed.png
# image/vnd.sealedmedia.softseal.gif
# image/vnd.sealedmedia.softseal.jpg
# image/vnd.svf
# image/vnd.tencent.tap
# image/vnd.valve.source.texture
image/vnd.wap.wbmp    wbmp
image/vnd.xiff     xif
# image/vnd.zbrush.pcx
image/webp     webp
# image/wmf
image/x-3ds     3ds
image/x-cmu-raster    ras
image/x-cmx     cmx
image/x-freehand    fh
 fhc fh4 fh5 fh7
image/x-icon     ico
image/x-mrsid-image    sid
image/x-pcx     pcx
image/x-pict     pic pct
image/x-portable-anymap    pnm
image/x-portable-bitmap    pbm
```

```
image/x-portable-graymap   pgm
image/x-portable-pixmap    ppm
image/x-rgb     rgb
image/x-tga     tga
image/x-xbitmap     xbm
image/x-xpixmap     xpm
image/x-xwindowdump    xwd
# message/cpim
# message/delivery-status
# message/disposition-notification
# message/example
# message/external-body
# message/feedback-report
# message/global
# message/global-delivery-status
# message/global-disposition-notification
# message/global-headers
# message/http
# message/imdn+xml
# message/news
# message/partial
message/rfc822     eml mime
# message/s-http
# message/sip
# message/sipfrag
# message/tracking-status
# message/vnd.si.simp
# message/vnd.wfa.wsc
# model/example
# model/gltf+json
model/iges     igs iges
model/mesh     msh mesh silo
model/vnd.collada+xml    dae
model/vnd.dwf     dwf
#
 model/vnd.flatland.3dml
model/vnd.gdl     gdl
# model/vnd.gs-gdl
# model/vnd.gs.gdl
model/vnd.gtw     gtw
# model/vnd.moml+xml
model/vnd.mts     mts
# model/vnd.opengex
# model/vnd.parasolid.transmit.binary
# model/vnd.parasolid.transmit.text
# model/vnd.rosette.annotated-data-model
# model/vnd.valve.source.compiled-map
model/vnd.vtu     vtu
```

```
model/vrml	wrl vrml
model/x3d+binary	x3db x3dbz
# model/x3d+fastinfoset
model/x3d+vrml	x3dv x3dvz
model/x3d+xml	x3d x3dz
# model/x3d-vrml
# multipart/alternative
# multipart/appledouble
# multipart/byteranges
# multipart/digest
# multipart/encrypted
# multipart/example
# multipart/form-data
# multipart/header-set
# multipart/mixed
# multipart/parallel
# multipart/related
# multipart/report
# multipart/signed
# multipart/voice-message
# multipart/x-mixed-replace
# text/1d-interleaved-parityfec
text/cache-manifest	appcache
text/calendar	ics ifb
text/css	css
text/csv	csv
# text/csv-schema
#
 text/directory
# text/dns
# text/ecmascript
# text/encaprtp
# text/enriched
# text/example
# text/fwdred
# text/grammar-ref-list
text/html	html htm
# text/javascript
# text/jcr-cnd
# text/markdown
# text/mizar
text/n3	n3
# text/parameters
# text/parityfec
text/plain	txt text conf def list log in
# text/provenance-notation
# text/prs.fallenstein.rst
text/prs.lines.tag	dsc
```

```
# text/prs.prop.logic
# text/raptorfec
# text/red
# text/rfc822-headers
text/richtext	rtx
# text/rtf
# text/rtp-enc-aescm128
# text/rtploopback
# text/rtx
text/sgml	sgml sgm
# text/t140
text/tab-separated-values	tsv
text/troff	t tr roff man me ms
text/turtle	ttl
# text/ulpfec
text/uri-list	uri uris urls
text/vcard	vcard
# text/vnd.a
# text/vnd.abc
text/vnd.curl	curl
text/vnd.curl.dcurl	dcurl
text/vnd.curl.mcurl	mcurl
text/vnd.curl.scurl	scurl
# text/vnd.debian.copyright
# text/vnd.dmclientscript
text/vnd.dvb.subtitle	sub
# text/vnd.esmertec.theme-descriptor
text/vnd.fly	fly
text/vnd.fmi.flexstor	flx
text/vnd.graphviz	gv
text/vnd.in3d.3dml	3dml
text/vnd.in3d.spot	spot
#
 text/vnd.iptc.newsml
# text/vnd.iptc.nitf
# text/vnd.latex-z
# text/vnd.motorola.reflex
# text/vnd.ms-mediapackage
# text/vnd.net2phone.commcenter.command
# text/vnd.radisys.msml-basic-layout
# text/vnd.si.uricatalogue
text/vnd.sun.j2me.app-descriptor	jad
# text/vnd.trolltech.linguist
# text/vnd.wap.si
# text/vnd.wap.sl
text/vnd.wap.wml	wml
text/vnd.wap.wmlscript	wmls
text/x-asm	s asm
```

```
text/x-c	c cc cxx cpp h hh dic
text/x-fortran	f for f77 f90
text/x-java-source	java
text/x-nfo	nfo
text/x-opml	opml
text/x-pascal	p pas
text/x-setext	etx
text/x-sfv	sfv
text/x-uuencode	uu
text/x-vcalendar	vcs
text/x-vcard	vcf
# text/xml
# text/xml-external-parsed-entity
# video/1d-interleaved-parityfec
video/3gpp	3gp
# video/3gpp-tt
video/3gpp2	3g2
# video/bmpeg
# video/bt656
# video/celb
# video/dv
# video/encaprtp
#
 video/example
video/h261	h261
video/h263	h263
# video/h263-1998
# video/h263-2000
video/h264	h264
# video/h264-rcdo
# video/h264-svc
# video/h265
# video/iso.segment
video/jpeg	jpgv
# video/jpeg2000
video/jpm	jpm jpgm
video/mj2	mj2 mjp2
# video/mp1s
# video/mp2p
# video/mp2t
video/mp4	mp4 mp4v mpg4
# video/mp4v-es
video/mpeg	mpeg mpg mpe m1v m2v
# video/mpeg4-generic
# video/mpv
# video/nv
video/ogg	ogv
# video/parityfec
```

```
# video/pointer
video/quicktime     qt mov
# video/raptorfec
# video/raw
# video/rtp-enc-aescm128
# video/rtploopback
# video/rtx
# video/smpte292m
# video/ulpfec
# video/vc1
# video/vnd.cctv
video/vnd.dece.hd    uvh uvvh
video/vnd.dece.mobile    uvm uvvm
# video/vnd.dece.mp4
video/vnd.dece.pd    uvp uvvp
video/vnd.dece.sd    uvs uvvs
video/vnd.dece.video    uvv uvvv
# video/vnd.directv.mpeg
# video/vnd.directv.mpeg-tts
# video/vnd.dlna.mpeg-tts
video/vnd.dvb.file    dvb
video/vnd.fvt     fvt
# video/vnd.hns.video
# video/vnd.iptvforum.1dparityfec-1010
#
 video/vnd.iptvforum.1dparityfec-2005
# video/vnd.iptvforum.2dparityfec-1010
# video/vnd.iptvforum.2dparityfec-2005
# video/vnd.iptvforum.ttsavc
# video/vnd.iptvforum.ttsmpeg2
# video/vnd.motorola.video
# video/vnd.motorola.videop
video/vnd.mpegurl    mxu m4u
video/vnd.ms-playready.media.pyv  pyv
# video/vnd.nokia.interleaved-multimedia
# video/vnd.nokia.videovoip
# video/vnd.objectvideo
# video/vnd.radgamettools.bink
# video/vnd.radgamettools.smacker
# video/vnd.sealed.mpeg1
# video/vnd.sealed.mpeg4
# video/vnd.sealed.swf
# video/vnd.sealedmedia.softseal.mov
video/vnd.uvvu.mp4    uvu uvvu
video/vnd.vivo     viv
# video/vp8
video/webm     webm
video/x-f4v     f4v
```

video/x-fli fli
video/x-flv flv
video/x-m4v m4v
video/x-matroska mkv mk3d mks
video/x-mng mng
video/x-ms-asf asf asx
video/x-ms-vob vob
video/x-ms-wm wm
video/x-ms-wmv wmv
video/x-ms-wmx wmx
video/x-ms-wvx wvx
video/x-msvideo avi
video/x-sgi-movie movie
video/x-smv smv
x-conference/x-cooltalk ice

Found
in path(s):
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/http/mime.types
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* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/bind/support/SessionStatus.java
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Found in path(s):
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/client/HttpStatusCodeException.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/http/codec/cbor/Jackson2CborDecoder.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/accept/FixedContentNegotiationStrategy.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/http/codec/xml/JaxbContextContainer.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/context/request/ServletRequestAttributes.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/context/support/ServletContextScope.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/accept/MediaTypeFileExtensionResolver.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/http/client/ClientHttpRequestInitializer.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/client/UnknownHttpStatusCodeException.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/http/converter/xml/AbstractJaxb2HttpMessageConverter.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/http/codec/support/DefaultServerCodecConfigurer.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/client/RestOperationsExtensions.kt
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/method/annotation/AbstractWebArgumentResolverAdapter.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/http/client/support/BasicAuthenticationInterceptor.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/method/support/AsyncHandlerMethodReturnValueHandler.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/client/HttpClientErrorException.java
*

/opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/http/codec/cbor/Jackson2CborEncoder.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/http/server/ServerHttpRequest.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/cors/reactive/CorsWebFilter.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/server/handler/WebHandlerDecorator.java
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```

Found in path(s):
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/context/annotation/RequestScope.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/bind/annotation/RequestAttribute.java
*
/opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/context/annotation/SessionScope.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/util/WebAppRootListener.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/http/ReactiveHttpInputMessage.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/server/session/WebSessionManager.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/context/request/async/TimeoutDeferredResultProcessingInterceptor.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/cors/CorsConfigurationSource.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/context/WebApplicationContext.java
*

/opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/method/annotation/RequestHeaderMapMethodArgumentResolver.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/server/WebHandler.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/context/request/SessionScope.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/filter/CompositeFilter.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/multipart/MultipartRequest.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/bind/annotation/SessionAttribute.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/context/request/RequestScope.java
*
/opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/http/converter/json/SpringHandlerInstantiator.java
* /opt/cola/permits/1946616273_1711139574.129306/0/spring-web-6-1-5-sources-1-jar/org/springframework/web/context/request/WebRequestInterceptor.java
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1.3755 ip-address 9.0.5

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* /opt/cola/permits/1946863639_1718084686.1153445/0/dskit-tar/dskit.txt

1.3758 cdproto 0.0.0-20230802225258-3cf4e6d46a89

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* /opt/cola/permits/1946863574_1718088096.452126/0/dskit-tar/dskit.txt

1.3760 k8s-io-kube-openapi 0.0.0-20231214164306-ab13479f8bf8

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Version 3, 29 June 2007

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1.3763 sqlite 3.45.2

1.3763.1 Available under license :

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```
/*
** CAPI3REF: Configuration Options
** KEYWORDS: {configuration option}
**
** These constants are the available integer configuration options that
** can be passed as the first argument to the [sqlite3_config()] interface.
**
** Most of the configuration options for sqlite3_config()
** will only work if invoked prior to [sqlite3_initialize()] or after
** [sqlite3_shutdown()].  The few exceptions to this rule are called
** "anytime configuration options".
** ^Calling [sqlite3_config()] with a first argument that is not an
** anytime configuration option in between calls to [sqlite3_initialize()] and
** [sqlite3_shutdown()] is a no-op that returns SQLITE_MISUSE.
**
** The set of anytime configuration options can change (by insertions
** and/or deletions) from one release of SQLite to the next.
** As of SQLite version 3.42.0, the complete set of anytime configuration
** options is:
** <ul>
** <li> SQLITE_CONFIG_LOG
**
 <li> SQLITE_CONFIG_PCACHE_HDRSZ
** </ul>
**
```

```
** New configuration options may be added in future releases of SQLite.
** Existing configuration options might be discontinued.  Applications
** should check the return code from [sqlite3_config()] to make sure that
** the call worked.  The [sqlite3_config()] interface will return a
** non-zero [error code] if a discontinued or unsupported configuration option
** is invoked.
**
** <dl>
** [[SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
** <dd>There are no arguments to this option.  ^This option sets the
** [threading mode] to Single-thread.  In other words, it disables
** all mutexing and puts SQLite into a mode where it can only be used
** by a single thread.   ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to change the [threading mode] from its default
** value of Single-thread and so [sqlite3_config()] will return
** [SQLITE_ERROR] if called
 with the SQLITE_CONFIG_SINGLETHREAD
** configuration option.</dd>
**
** [[SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>
** <dd>There are no arguments to this option.  ^This option sets the
** [threading mode] to Multi-thread.  In other words, it disables
** mutexing on [database connection] and [prepared statement] objects.
** The application is responsible for serializing access to
** [database connections] and [prepared statements].  But other mutexes
** are enabled so that SQLite will be safe to use in a multi-threaded
** environment as long as no two threads attempt to use the same
** [database connection] at the same time.  ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Multi-thread [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_MULTITHREAD configuration option.</dd>
**
** [[SQLITE_CONFIG_SERIALIZED]] <dt>SQLITE_CONFIG_SERIALIZED</dt>
**
 <dd>There are no arguments to this option.  ^This option sets the
** [threading mode] to Serialized. In other words, this option enables
** all mutexes including the recursive
** mutexes on [database connection] and [prepared statement] objects.
** In this mode (which is the default when SQLite is compiled with
** [SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access
** to [database connections] and [prepared statements] so that the
** application is free to use the same [database connection] or the
** same [prepared statement] in different threads at the same time.
** ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Serialized [threading mode] and
```

```
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_SERIALIZED configuration option.</dd>
**
** [[SQLITE_CONFIG_MALLOC]] <dt>SQLITE_CONFIG_MALLOC</dt>
** <dd> ^(The SQLITE_CONFIG_MALLOC option
 takes a single argument which is
** a pointer to an instance of the [sqlite3_mem_methods] structure.
** The argument specifies
** alternative low-level memory allocation routines to be used in place of
** the memory allocation routines built into SQLite.)^ ^SQLite makes
** its own private copy of the content of the [sqlite3_mem_methods] structure
** before the [sqlite3_config()] call returns.</dd>
**
** [[SQLITE_CONFIG_GETMALLOC]] <dt>SQLITE_CONFIG_GETMALLOC</dt>
** <dd> ^(The SQLITE_CONFIG_GETMALLOC option takes a single argument which
** is a pointer to an instance of the [sqlite3_mem_methods] structure.
** The [sqlite3_mem_methods]
** structure is filled with the currently defined memory allocation routines.)^
** This option can be used to overload the default memory allocation
** routines with a wrapper that simulations memory allocation failure or
** tracks memory usage, for example. </dd>
**
** [[SQLITE_CONFIG_SMALL_MALLOC]] <dt>SQLITE_CONFIG_SMALL_MALLOC</dt>
** <dd> ^The SQLITE_CONFIG_SMALL_MALLOC
 option takes single argument of
** type int, interpreted as a boolean, which if true provides a hint to
** SQLite that it should avoid large memory allocations if possible.
** SQLite will run faster if it is free to make large memory allocations,
** but some application might prefer to run slower in exchange for
** guarantees about memory fragmentation that are possible if large
** allocations are avoided.  This hint is normally off.
** </dd>
**
** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt>
** <dd> ^The SQLITE_CONFIG_MEMSTATUS option takes single argument of type int,
** interpreted as a boolean, which enables or disables the collection of
** memory allocation statistics. ^(When memory allocation statistics are
** disabled, the following SQLite interfaces become non-operational:
**   <ul>
**   <li> [sqlite3_hard_heap_limit64()]
**   <li> [sqlite3_memory_used()]
**   <li> [sqlite3_memory_highwater()]
**   <li> [sqlite3_soft_heap_limit64()]
**
   <li> [sqlite3_status64()]
**   </ul>)^
** ^Memory allocation statistics are enabled by default unless SQLite is
** compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory
```

```
** allocation statistics are disabled by default.
** </dd>
**
** [[SQLITE_CONFIG_SCRATCH]] <dt>SQLITE_CONFIG_SCRATCH</dt>
** <dd> The SQLITE_CONFIG_SCRATCH option is no longer used.
** </dd>
**
** [[SQLITE_CONFIG_PAGECACHE]] <dt>SQLITE_CONFIG_PAGECACHE</dt>
** <dd> ^The SQLITE_CONFIG_PAGECACHE option specifies a memory pool
** that SQLite can use for the database page cache with the default page
** cache implementation.
** This configuration option is a no-op if an application-defined page
** cache implementation is loaded using the [SQLITE_CONFIG_PCACHE2].
** ^There are three arguments to SQLITE_CONFIG_PAGECACHE: A pointer to
** 8-byte aligned memory (pMem), the size of each page cache line (sz),
** and the number of cache lines (N).
** The sz argument should be the size of the largest database page
** (a power
 of two between 512 and 65536) plus some extra bytes for each
** page header.  ^The number of extra bytes needed by the page header
** can be determined using [SQLITE_CONFIG_PCACHE_HDRSZ].
** ^It is harmless, apart from the wasted memory,
** for the sz parameter to be larger than necessary.  The pMem
** argument must be either a NULL pointer or a pointer to an 8-byte
** aligned block of memory of at least sz*N bytes, otherwise
** subsequent behavior is undefined.
** ^When pMem is not NULL, SQLite will strive to use the memory provided
** to satisfy page cache needs, falling back to [sqlite3_malloc()] if
** a page cache line is larger than sz bytes or if all of the pMem buffer
** is exhausted.
** ^If pMem is NULL and N is non-zero, then each database connection
** does an initial bulk allocation for page cache memory
** from [sqlite3_malloc()] sufficient for N cache lines if N is positive or
** of -1024*N bytes if N is negative, . ^If additional
** page cache memory is needed beyond
 what is provided by the initial
** allocation, then SQLite goes to [sqlite3_malloc()] separately for each
** additional cache line. </dd>
**
** [[SQLITE_CONFIG_HEAP]] <dt>SQLITE_CONFIG_HEAP</dt>
** <dd> ^The SQLITE_CONFIG_HEAP option specifies a static memory buffer
** that SQLite will use for all of its dynamic memory allocation needs
** beyond those provided for by [SQLITE_CONFIG_PAGECACHE].
** ^The SQLITE_CONFIG_HEAP option is only available if SQLite is compiled
** with either [SQLITE_ENABLE_MEMSYS3] or [SQLITE_ENABLE_MEMSYS5] and returns
** [SQLITE_ERROR] if invoked otherwise.
** ^There are three arguments to SQLITE_CONFIG_HEAP:
** An 8-byte aligned pointer to the memory,
```

```
** the number of bytes in the memory buffer, and the minimum allocation size.
** ^If the first pointer (the memory pointer) is NULL, then SQLite reverts
** to using its default memory allocator (the system malloc() implementation),
** undoing any prior invocation of [SQLITE_CONFIG_MALLOC].  ^If the
** memory pointer
 is not NULL then the alternative memory
** allocator is engaged to handle all of SQLites memory allocation needs.
** The first pointer (the memory pointer) must be aligned to an 8-byte
** boundary or subsequent behavior of SQLite will be undefined.
** The minimum allocation size is capped at 2**12. Reasonable values
** for the minimum allocation size are 2**5 through 2**8.</dd>
**
** [[SQLITE_CONFIG_MUTEX]] <dt>SQLITE_CONFIG_MUTEX</dt>
** <dd> ^(The SQLITE_CONFIG_MUTEX option takes a single argument which is a
** pointer to an instance of the [sqlite3_mutex_methods] structure.
** The argument specifies alternative low-level mutex routines to be used
** in place the mutex routines built into SQLite.)^  ^SQLite makes a copy of
** the content of the [sqlite3_mutex_methods] structure before the call to
** [sqlite3_config()] returns. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the
 build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt>
** <dd> ^(The SQLITE_CONFIG_GETMUTEX option takes a single argument which
** is a pointer to an instance of the [sqlite3_mutex_methods] structure.  The
** [sqlite3_mutex_methods]
** structure is filled with the currently defined mutex routines.)^
** This option can be used to overload the default mutex allocation
** routines with a wrapper used to track mutex usage for performance
** profiling or testing, for example.   ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt>
** <dd> ^(The SQLITE_CONFIG_LOOKASIDE
 option takes two arguments that determine
** the default size of lookaside memory on each [database connection].
** The first argument is the
** size of each lookaside buffer slot and the second is the number of
** slots allocated to each database connection.)^  ^(SQLITE_CONFIG_LOOKASIDE
** sets the <i>default</i> lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
** option to [sqlite3_db_config()] can be used to change the lookaside
** configuration on individual connections.)^ </dd>
```

```
**
** [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_PCACHE2 option takes a single argument which is
** a pointer to an [sqlite3_pcache_methods2] object.  This object specifies
** the interface to a custom page cache implementation.)^
** ^SQLite makes a copy of the [sqlite3_pcache_methods2] object.</dd>
**
** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_GETPCACHE2 option takes a single argument which
** is
 a pointer to an [sqlite3_pcache_methods2] object.  SQLite copies of
** the current page cache implementation into that object.)^ </dd>
**
** [[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt>
** <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite
** global [error log].
** (^The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a
** function with a call signature of void(*)(void*,int,const char*),
** and a pointer to void. ^If the function pointer is not NULL, it is
** invoked by [sqlite3_log()] to process each logging event.  ^If the
** function pointer is NULL, the [sqlite3_log()] interface becomes a no-op.
** ^The void pointer that is the second argument to SQLITE_CONFIG_LOG is
** passed through as the first parameter to the application-defined logger
** function whenever that function is invoked.  ^The second parameter to
** the logger function is a copy of the first parameter to the corresponding
** [sqlite3_log()] call and is intended to be a [result code] or
 an
** [extended result code].  ^The third parameter passed to the logger is
** log message after formatting via [sqlite3_snprintf()].
** The SQLite logging interface is not reentrant; the logger function
** supplied by the application must not invoke any SQLite interface.
** In a multi-threaded application, the application-defined logger
** function must be threadsafe. </dd>
**
** [[SQLITE_CONFIG_URI]] <dt>SQLITE_CONFIG_URI
** <dd>^(The SQLITE_CONFIG_URI option takes a single argument of type int.
** If non-zero, then URI handling is globally enabled. If the parameter is zero,
** then URI handling is globally disabled.)^ ^If URI handling is globally
** enabled, all filenames passed to [sqlite3_open()], [sqlite3_open_v2()],
** [sqlite3_open16()] or
** specified as part of [ATTACH] commands are interpreted as URIs, regardless
** of whether or not the [SQLITE_OPEN_URI] flag is set when the database
** connection is opened. ^If it is globally disabled, filenames are
** only interpreted as
 URIs if the SQLITE_OPEN_URI flag is set when the
** database connection is opened. ^(By default, URI handling is globally
** disabled. The default value may be changed by compiling with the
** [SQLITE_USE_URI] symbol defined.)^
```

```
**
** [[SQLITE_CONFIG_COVERING_INDEX_SCAN]] <dt>SQLITE_CONFIG_COVERING_INDEX_SCAN
** <dd>^The SQLITE_CONFIG_COVERING_INDEX_SCAN option takes a single integer
** argument which is interpreted as a boolean in order to enable or disable
** the use of covering indices for full table scans in the query optimizer.
** ^The default setting is determined
** by the [SQLITE_ALLOW_COVERING_INDEX_SCAN] compile-time option, or is "on"
** if that compile-time option is omitted.
** The ability to disable the use of covering indices for full table scans
** is because some incorrectly coded legacy applications might malfunction
** when the optimization is enabled.  Providing the ability to
** disable the optimization allows the older, buggy application code to work
** without change
 even with newer versions of SQLite.
**
** [[SQLITE_CONFIG_PCACHE]] [[SQLITE_CONFIG_GETPCACHE]]
** <dt>SQLITE_CONFIG_PCACHE and SQLITE_CONFIG_GETPCACHE
** <dd> These options are obsolete and should not be used by new code.
** They are retained for backwards compatibility but are now no-ops.
** </dd>
**
** [[SQLITE_CONFIG_SQLLOG]]
** <dt>SQLITE_CONFIG_SQLLOG
** <dd>This option is only available if sqlite is compiled with the
** [SQLITE_ENABLE_SQLLOG] pre-processor macro defined. The first argument should
** be a pointer to a function of type void(*)(void*,sqlite3*,const char*, int).
** The second should be of type (void*). The callback is invoked by the library
** in three separate circumstances, identified by the value passed as the
** fourth parameter. If the fourth parameter is 0, then the database connection
** passed as the second argument has just been opened. The third argument
** points to a buffer containing the name of the main database file. If the
** fourth parameter is 1,
 then the SQL statement that the third parameter
** points to has just been executed. Or, if the fourth parameter is 2, then
** the connection being passed as the second parameter is being closed. The
** third parameter is passed NULL In this case.  An example of using this
** configuration option can be seen in the "test_sqllog.c" source file in
** the canonical SQLite source tree.</dd>
**
** [[SQLITE_CONFIG_MMAP_SIZE]]
** <dt>SQLITE_CONFIG_MMAP_SIZE
** <dd>^SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values
** that are the default mmap size limit (the default setting for
** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.
** ^The default setting can be overridden by each database connection using
** either the [PRAGMA mmap_size] command, or by using the
** [SQLITE_FCNTL_MMAP_SIZE] file control.  ^(The maximum allowed mmap size
** will be silently truncated if necessary so that it does not exceed the
```

```
** compile-time maximum mmap size set by the
** [SQLITE_MAX_MMAP_SIZE]
 compile-time option.)^
** ^If either argument to this option is negative, then that argument is
** changed to its compile-time default.
**
** [[SQLITE_CONFIG_WIN32_HEAPSIZE]]
** <dt>SQLITE_CONFIG_WIN32_HEAPSIZE
** <dd>^The SQLITE_CONFIG_WIN32_HEAPSIZE option is only available if SQLite is
** compiled for Windows with the [SQLITE_WIN32_MALLOC] pre-processor macro
** defined. ^SQLITE_CONFIG_WIN32_HEAPSIZE takes a 32-bit unsigned integer value
** that specifies the maximum size of the created heap.
**
** [[SQLITE_CONFIG_PCACHE_HDRSZ]]
** <dt>SQLITE_CONFIG_PCACHE_HDRSZ
** <dd>^The SQLITE_CONFIG_PCACHE_HDRSZ option takes a single parameter which
** is a pointer to an integer and writes into that integer the number of extra
** bytes per page required for each page in [SQLITE_CONFIG_PAGECACHE].
** The amount of extra space required can change depending on the compiler,
** target platform, and SQLite version.
**
** [[SQLITE_CONFIG_PMASZ]]
** <dt>SQLITE_CONFIG_PMASZ
** <dd>^The
 SQLITE_CONFIG_PMASZ option takes a single parameter which
** is an unsigned integer and sets the "Minimum PMA Size" for the multithreaded
** sorter to that integer.  The default minimum PMA Size is set by the
** [SQLITE_SORTER_PMASZ] compile-time option.  New threads are launched
** to help with sort operations when multithreaded sorting
** is enabled (using the [PRAGMA threads] command) and the amount of content
** to be sorted exceeds the page size times the minimum of the
** [PRAGMA cache_size] setting and this value.
**
** [[SQLITE_CONFIG_STMTJRNL_SPILL]]
** <dt>SQLITE_CONFIG_STMTJRNL_SPILL
** <dd>^The SQLITE_CONFIG_STMTJRNL_SPILL option takes a single parameter which
** becomes the [statement journal] spill-to-disk threshold.
** [Statement journals] are held in memory until their size (in bytes)
** exceeds this threshold, at which point they are written to disk.
** Or if the threshold is -1, statement journals are always held
** exclusively in memory.
** Since many statement journals
 never become large, setting the spill
** threshold to a value such as 64KiB can greatly reduce the amount of
** I/O required to support statement rollback.
** The default value for this setting is controlled by the
** [SQLITE_STMTJRNL_SPILL] compile-time option.
**
```

```
** [[SQLITE_CONFIG_SORTERREF_SIZE]]
** <dt>SQLITE_CONFIG_SORTERREF_SIZE
** <dd>The SQLITE_CONFIG_SORTERREF_SIZE option accepts a single parameter
** of type (int) - the new value of the sorter-reference size threshold.
** Usually, when SQLite uses an external sort to order records according
** to an ORDER BY clause, all fields required by the caller are present in the
** sorted records. However, if SQLite determines based on the declared type
** of a table column that its values are likely to be very large - larger
** than the configured sorter-reference size threshold - then a reference
** is stored in each sorted record and the required column values loaded
** from the database as records are returned in sorted order.
 The default
** value for this option is to never use this optimization. Specifying a
** negative value for this option restores the default behavior.
** This option is only available if SQLite is compiled with the
** [SQLITE_ENABLE_SORTER_REFERENCES] compile-time option.
**
** [[SQLITE_CONFIG_MEMDB_MAXSIZE]]
** <dt>SQLITE_CONFIG_MEMDB_MAXSIZE
** <dd>The SQLITE_CONFIG_MEMDB_MAXSIZE option accepts a single parameter
** [sqlite3_int64] parameter which is the default maximum size for an in-memory
** database created using [sqlite3_deserialize()].  This default maximum
** size can be adjusted up or down for individual databases using the
** [SQLITE_FCNTL_SIZE_LIMIT] [sqlite3_file_control|file-control].  If this
** configuration setting is never used, then the default maximum is determined
** by the [SQLITE_MEMDB_DEFAULT_MAXSIZE] compile-time option.  If that
** compile-time option is not set, then the default maximum is 1073741824.
** </dl>
*/
/*
** The "printf" code that follows dates
 from the 1980's.  It is in
** the public domain.
**
**************************************************************************
**
** This file contains code for a set of "printf"-like routines.  These
** routines format strings much like the printf() from the standard C
** library, though the implementation here has enhancements to support
** SQLite.
*/
/*
** 2004 May 22
**
** The author disclaims copyright to this source code.  In place of
** a legal notice, here is a blessing:
**
**    May you do good and not evil.
```

```
**    May you find forgiveness for yourself and forgive others.
**    May you share freely, never taking more than you give.
**
*****************************************************************************
**
** This file contains the VFS implementation for unix-like operating systems
** include Linux, MacOSX, *BSD, QNX, VxWorks, AIX, HPUX, and others.
**
** There are actually several different VFS implementations in this file.
** The differences are in the way that file
 locking is done.  The default
** implementation uses Posix Advisory Locks.  Alternative implementations
** use flock(), dot-files, various proprietary locking schemas, or simply
** skip locking all together.
**
** This source file is organized into divisions where the logic for various
** subfunctions is contained within the appropriate division.  PLEASE
** KEEP THE STRUCTURE OF THIS FILE INTACT.  New code should be placed
** in the correct division and should be clearly labelled.
**
** The layout of divisions is as follows:
**
**   *  General-purpose declarations and utility functions.
**   *  Unique file ID logic used by VxWorks.
**   *  Various locking primitive implementations (all except proxy locking):
**      + for Posix Advisory Locks
**      + for no-op locks
**      + for dot-file locks
**      + for flock() locking
**      + for named semaphore locks (VxWorks only)
**      + for AFP filesystem locks (MacOSX only)
**   *  sqlite3_file methods not associated with locking.
**
  *  Definitions of sqlite3_io_methods objects for all locking
**      methods plus "finder" functions for each locking method.
**   *  sqlite3_vfs method implementations.
**   *  Locking primitives for the proxy uber-locking-method. (MacOSX only)
**   *  Definitions of sqlite3_vfs objects for all locking methods
**      plus implementations of sqlite3_os_init() and sqlite3_os_end().
*/
/*
** Return a pointer to the "temporary page" buffer held internally
** by the pager.  This is a buffer that is big enough to hold the
** entire content of a database page.  This buffer is used internally
** during rollback and will be overwritten whenever a rollback
** occurs.  But other modules are free to use it too, as long as
** no rollbacks are happening.
*/
```

Found in path(s):
* /opt/cola/permits/1949311916_1712730307.3400743/0/sqlite-amalgamation-3450200-zip/sqlite-amalgamation-3450200/sqlite3.c
No license file was found, but licenses were detected in source scan.

```
/*
** 2022-11-18
**
** The author disclaims copyright to this source code.  In place of
** a legal notice, here is a blessing:
**
**    May you do good and not evil.
**    May you find forgiveness for yourself and forgive others.
**    May you share freely, never taking more than you give.
**
***************************************************************************
**
** This is a SQLite extension for converting in either direction
** between a (binary) blob and base64 text. Base64 can transit a
** sane USASCII channel unmolested. It also plays nicely in CSV or
** written as TCL brace-enclosed literals or SQL string literals,
** and can be used unmodified in XML-like documents.
**
** This is an independent implementation of conversions specified in
** RFC 4648, done on the above date by the author (Larry Brasfield)
** who thereby has the right to put this into the public domain.
**
** The conversions meet RFC 4648 requirements,
 provided that this
** C source specifies that line-feeds are included in the encoded
** data to limit visible line lengths to 72 characters and to
** terminate any encoded blob having non-zero length.
**
** Length limitations are not imposed except that the runtime
** SQLite string or blob length limits are respected. Otherwise,
** any length binary sequence can be represented and recovered.
** Generated base64 sequences, with their line-feeds included,
** can be concatenated; the result converted back to binary will
** be the concatenation of the represented binary sequences.
**
** This SQLite3 extension creates a function, base64(x), which
** either: converts text x containing base64 to a returned blob;
** or converts a blob x to returned text containing base64. An
** error will be thrown for other input argument types.
**
** This code relies on UTF-8 encoding only with respect to the
** meaning of the first 128 (7-bit) codes matching that of USASCII.
```

```
** It will fail miserably
 if somehow made to try to convert EBCDIC.
** Because it is table-driven, it could be enhanced to handle that,
** but the world and SQLite have moved on from that anachronism.
**
** To build the extension:
** Set shell variable SQDIR=<your favorite SQLite checkout directory>
** *Nix: gcc -O2 -shared -I$SQDIR -fPIC -o base64.so base64.c
** OSX: gcc -O2 -dynamiclib -fPIC -I$SQDIR -o base64.dylib base64.c
** Win32: gcc -O2 -shared -I%SQDIR% -o base64.dll base64.c
** Win32: cl /Os -I%SQDIR% base64.c -link -dll -out:base64.dll
*/
/*
** 2022-11-16
**
** The author disclaims copyright to this source code.  In place of
** a legal notice, here is a blessing:
**
**    May you do good and not evil.
**    May you find forgiveness for yourself and forgive others.
**    May you share freely, never taking more than you give.
**
***************************************************************************
**
** This is a utility for converting binary to base85 or vice-versa.
** It can be built as a standalone
 program or an SQLite3 extension.
**
** Much like base64 representations, base85 can be sent through a
** sane USASCII channel unmolested. It also plays nicely in CSV or
** written as TCL brace-enclosed literals or SQL string literals.
** It is not suited for unmodified use in XML-like documents.
**
** The encoding used resembles Ascii85, but was devised by the author
** (Larry Brasfield) before Mozilla, Adobe, ZMODEM or other Ascii85
** variant sources existed, in the 1984 timeframe on a VAX mainframe.
** Further, this is an independent implementation of a base85 system.
** Hence, the author has rightfully put this into the public domain.
**
** Base85 numerals are taken from the set of 7-bit USASCII codes,
** excluding control characters and Space ! " ' ( ) { | } ~ Del
** in code order representing digit values 0 to 84 (base 10.)
**
** Groups of 4 bytes, interpreted as big-endian 32-bit values,
** are represented as 5-digit base85 numbers with MS to LS digit
** order. Groups
 of 1-3 bytes are represented with 2-4 digits,
** still big-endian but 8-24 bit values. (Using big-endian yields
```

```
** the simplest transition to byte groups smaller than 4 bytes.
** These byte groups can also be considered base-256 numbers.)
** Groups of 0 bytes are represented with 0 digits and vice-versa.
** No pad characters are used; Encoded base85 numeral sequence
** (aka "group") length maps 1-to-1 to the decoded binary length.
**
** Any character not in the base85 numeral set delimits groups.
** When base85 is streamed or stored in containers of indefinite
** size, newline is used to separate it into sub-sequences of no
** more than 80 digits so that fgets() can be used to read it.
**
** Length limitations are not imposed except that the runtime
** SQLite string or blob length limits are respected. Otherwise,
** any length binary sequence can be represented and recovered.
** Base85 sequences can be concatenated by separating them with
** a non-base85 character; the conversion to binary
 will then
** be the concatenation of the represented binary sequences.

** The standalone program either converts base85 on stdin to create
** a binary file or converts a binary file to base85 on stdout.
** Read or make it blurt its help for invocation details.
**
** The SQLite3 extension creates a function, base85(x), which will
** either convert text base85 to a blob or a blob to text base85
** and return the result (or throw an error for other types.)
** Unless built with OMIT_BASE85_CHECKER defined, it also creates a
** function, is_base85(t), which returns 1 iff the text t contains
** nothing other than base85 numerals and whitespace, or 0 otherwise.
**
** To build the extension:
** Set shell variable SQDIR=<your favorite SQLite checkout directory>
** and variable OPTS to -DOMIT_BASE85_CHECKER if is_base85() unwanted.
** *Nix: gcc -O2 -shared -I$SQDIR $OPTS -fPIC -o base85.so base85.c
** OSX: gcc -O2 -dynamiclib -fPIC -I$SQDIR $OPTS -o base85.dylib base85.c
** Win32: gcc -O2
 -shared -I%SQDIR% %OPTS% -o base85.dll base85.c
** Win32: cl /Os -I%SQDIR% %OPTS% base85.c -link -dll -out:base85.dll
**
** To build the standalone program, define PP symbol BASE85_STANDALONE. Eg.
** *Nix or OSX: gcc -O2 -DBASE85_STANDALONE base85.c -o base85
** Win32: gcc -O2 -DBASE85_STANDALONE -o base85.exe base85.c
** Win32: cl /Os /MD -DBASE85_STANDALONE base85.c
*/
/* This will be more informative in a later version. */
```

Found in path(s):
* /opt/cola/permits/1949311916_1712730307.3400743/0/sqlite-amalgamation-3450200-zip/sqlite-amalgamation-

3450200/shell.c
No license file was found, but licenses were detected in source scan.

```
/*
** CAPI3REF: Configuration Options
** KEYWORDS: {configuration option}
**
** These constants are the available integer configuration options that
** can be passed as the first argument to the [sqlite3_config()] interface.
**
** Most of the configuration options for sqlite3_config()
** will only work if invoked prior to [sqlite3_initialize()] or after
** [sqlite3_shutdown()].  The few exceptions to this rule are called
** "anytime configuration options".
** ^Calling [sqlite3_config()] with a first argument that is not an
** anytime configuration option in between calls to [sqlite3_initialize()] and
** [sqlite3_shutdown()] is a no-op that returns SQLITE_MISUSE.
**
** The set of anytime configuration options can change (by insertions
** and/or deletions) from one release of SQLite to the next.
** As of SQLite version 3.42.0, the complete set of anytime configuration
** options is:
** <ul>
** <li> SQLITE_CONFIG_LOG
**
 <li> SQLITE_CONFIG_PCACHE_HDRSZ
** </ul>
**
** New configuration options may be added in future releases of SQLite.
** Existing configuration options might be discontinued.  Applications
** should check the return code from [sqlite3_config()] to make sure that
** the call worked.  The [sqlite3_config()] interface will return a
** non-zero [error code] if a discontinued or unsupported configuration option
** is invoked.
**
** <dl>
** [[SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
** <dd>There are no arguments to this option.  ^This option sets the
** [threading mode] to Single-thread.  In other words, it disables
** all mutexing and puts SQLite into a mode where it can only be used
** by a single thread.   ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to change the [threading mode] from its default
** value of Single-thread and so [sqlite3_config()] will return
** [SQLITE_ERROR] if called
 with the SQLITE_CONFIG_SINGLETHREAD
** configuration option.</dd>
**
```

```
** [[SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>
** <dd>There are no arguments to this option.  ^This option sets the
** [threading mode] to Multi-thread.  In other words, it disables
** mutexing on [database connection] and [prepared statement] objects.
** The application is responsible for serializing access to
** [database connections] and [prepared statements].  But other mutexes
** are enabled so that SQLite will be safe to use in a multi-threaded
** environment as long as no two threads attempt to use the same
** [database connection] at the same time.  ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Multi-thread [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_MULTITHREAD configuration option.</dd>
**
** [[SQLITE_CONFIG_SERIALIZED]] <dt>SQLITE_CONFIG_SERIALIZED</dt>
**
 <dd>There are no arguments to this option.  ^This option sets the
** [threading mode] to Serialized. In other words, this option enables
** all mutexes including the recursive
** mutexes on [database connection] and [prepared statement] objects.
** In this mode (which is the default when SQLite is compiled with
** [SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access
** to [database connections] and [prepared statements] so that the
** application is free to use the same [database connection] or the
** same [prepared statement] in different threads at the same time.
** ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Serialized [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_SERIALIZED configuration option.</dd>
**
** [[SQLITE_CONFIG_MALLOC]] <dt>SQLITE_CONFIG_MALLOC</dt>
** <dd> ^(The SQLITE_CONFIG_MALLOC option
 takes a single argument which is
** a pointer to an instance of the [sqlite3_mem_methods] structure.
** The argument specifies
** alternative low-level memory allocation routines to be used in place of
** the memory allocation routines built into SQLite.)^ ^SQLite makes
** its own private copy of the content of the [sqlite3_mem_methods] structure
** before the [sqlite3_config()] call returns.</dd>
**
** [[SQLITE_CONFIG_GETMALLOC]] <dt>SQLITE_CONFIG_GETMALLOC</dt>
** <dd> ^(The SQLITE_CONFIG_GETMALLOC option takes a single argument which
** is a pointer to an instance of the [sqlite3_mem_methods] structure.
** The [sqlite3_mem_methods]
** structure is filled with the currently defined memory allocation routines.)^
** This option can be used to overload the default memory allocation
** routines with a wrapper that simulations memory allocation failure or
```

```
** tracks memory usage, for example. </dd>
**
** [[SQLITE_CONFIG_SMALL_MALLOC]] <dt>SQLITE_CONFIG_SMALL_MALLOC</dt>
** <dd> ^The SQLITE_CONFIG_SMALL_MALLOC
 option takes single argument of
** type int, interpreted as a boolean, which if true provides a hint to
** SQLite that it should avoid large memory allocations if possible.
** SQLite will run faster if it is free to make large memory allocations,
** but some application might prefer to run slower in exchange for
** guarantees about memory fragmentation that are possible if large
** allocations are avoided.  This hint is normally off.
** </dd>
**
** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt>
** <dd> ^The SQLITE_CONFIG_MEMSTATUS option takes single argument of type int,
** interpreted as a boolean, which enables or disables the collection of
** memory allocation statistics. ^(When memory allocation statistics are
** disabled, the following SQLite interfaces become non-operational:
**   <ul>
**   <li> [sqlite3_hard_heap_limit64()]
**   <li> [sqlite3_memory_used()]
**   <li> [sqlite3_memory_highwater()]
**   <li> [sqlite3_soft_heap_limit64()]
**
   <li> [sqlite3_status64()]
**   </ul>)^
** ^Memory allocation statistics are enabled by default unless SQLite is
** compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory
** allocation statistics are disabled by default.
** </dd>
**
** [[SQLITE_CONFIG_SCRATCH]] <dt>SQLITE_CONFIG_SCRATCH</dt>
** <dd> The SQLITE_CONFIG_SCRATCH option is no longer used.
** </dd>
**
** [[SQLITE_CONFIG_PAGECACHE]] <dt>SQLITE_CONFIG_PAGECACHE</dt>
** <dd> ^The SQLITE_CONFIG_PAGECACHE option specifies a memory pool
** that SQLite can use for the database page cache with the default page
** cache implementation.
** This configuration option is a no-op if an application-defined page
** cache implementation is loaded using the [SQLITE_CONFIG_PCACHE2].
** ^There are three arguments to SQLITE_CONFIG_PAGECACHE: A pointer to
** 8-byte aligned memory (pMem), the size of each page cache line (sz),
** and the number of cache lines (N).
** The sz argument should be the size of the largest database page
** (a power
 of two between 512 and 65536) plus some extra bytes for each
** page header.  ^The number of extra bytes needed by the page header
```

```
** can be determined using [SQLITE_CONFIG_PCACHE_HDRSZ].
** ^It is harmless, apart from the wasted memory,
** for the sz parameter to be larger than necessary.  The pMem
** argument must be either a NULL pointer or a pointer to an 8-byte
** aligned block of memory of at least sz*N bytes, otherwise
** subsequent behavior is undefined.
** ^When pMem is not NULL, SQLite will strive to use the memory provided
** to satisfy page cache needs, falling back to [sqlite3_malloc()] if
** a page cache line is larger than sz bytes or if all of the pMem buffer
** is exhausted.
** ^If pMem is NULL and N is non-zero, then each database connection
** does an initial bulk allocation for page cache memory
** from [sqlite3_malloc()] sufficient for N cache lines if N is positive or
** of -1024*N bytes if N is negative, . ^If additional
** page cache memory is needed beyond
 what is provided by the initial
** allocation, then SQLite goes to [sqlite3_malloc()] separately for each
** additional cache line. </dd>
**
** [[SQLITE_CONFIG_HEAP]] <dt>SQLITE_CONFIG_HEAP</dt>
** <dd> ^The SQLITE_CONFIG_HEAP option specifies a static memory buffer
** that SQLite will use for all of its dynamic memory allocation needs
** beyond those provided for by [SQLITE_CONFIG_PAGECACHE].
** ^The SQLITE_CONFIG_HEAP option is only available if SQLite is compiled
** with either [SQLITE_ENABLE_MEMSYS3] or [SQLITE_ENABLE_MEMSYS5] and returns
** [SQLITE_ERROR] if invoked otherwise.
** ^There are three arguments to SQLITE_CONFIG_HEAP:
** An 8-byte aligned pointer to the memory,
** the number of bytes in the memory buffer, and the minimum allocation size.
** ^If the first pointer (the memory pointer) is NULL, then SQLite reverts
** to using its default memory allocator (the system malloc() implementation),
** undoing any prior invocation of [SQLITE_CONFIG_MALLOC].  ^If the
** memory pointer
 is not NULL then the alternative memory
** allocator is engaged to handle all of SQLites memory allocation needs.
** The first pointer (the memory pointer) must be aligned to an 8-byte
** boundary or subsequent behavior of SQLite will be undefined.
** The minimum allocation size is capped at 2**12. Reasonable values
** for the minimum allocation size are 2**5 through 2**8.</dd>
**
** [[SQLITE_CONFIG_MUTEX]] <dt>SQLITE_CONFIG_MUTEX</dt>
** <dd> ^(The SQLITE_CONFIG_MUTEX option takes a single argument which is a
** pointer to an instance of the [sqlite3_mutex_methods] structure.
** The argument specifies alternative low-level mutex routines to be used
** in place the mutex routines built into SQLite.)^  ^SQLite makes a copy of
** the content of the [sqlite3_mutex_methods] structure before the call to
** [sqlite3_config()] returns. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
```

```
** the entire mutexing subsystem is omitted from the
 build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt>
** <dd> ^(The SQLITE_CONFIG_GETMUTEX option takes a single argument which
** is a pointer to an instance of the [sqlite3_mutex_methods] structure.  The
** [sqlite3_mutex_methods]
** structure is filled with the currently defined mutex routines.)^
** This option can be used to overload the default mutex allocation
** routines with a wrapper used to track mutex usage for performance
** profiling or testing, for example.   ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt>
** <dd> ^(The SQLITE_CONFIG_LOOKASIDE
 option takes two arguments that determine
** the default size of lookaside memory on each [database connection].
** The first argument is the
** size of each lookaside buffer slot and the second is the number of
** slots allocated to each database connection.)^  ^(SQLITE_CONFIG_LOOKASIDE
** sets the <i>default</i> lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
** option to [sqlite3_db_config()] can be used to change the lookaside
** configuration on individual connections.)^ </dd>
**
** [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_PCACHE2 option takes a single argument which is
** a pointer to an [sqlite3_pcache_methods2] object.  This object specifies
** the interface to a custom page cache implementation.)^
** ^SQLite makes a copy of the [sqlite3_pcache_methods2] object.</dd>
**
** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_GETPCACHE2 option takes a single argument which
** is
 a pointer to an [sqlite3_pcache_methods2] object.  SQLite copies of
** the current page cache implementation into that object.)^ </dd>
**
** [[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt>
** <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite
** global [error log].
** (^The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a
** function with a call signature of void(*)(void*,int,const char*),
** and a pointer to void. ^If the function pointer is not NULL, it is
** invoked by [sqlite3_log()] to process each logging event.  ^If the
```

```
** function pointer is NULL, the [sqlite3_log()] interface becomes a no-op.
** ^The void pointer that is the second argument to SQLITE_CONFIG_LOG is
** passed through as the first parameter to the application-defined logger
** function whenever that function is invoked.  ^The second parameter to
** the logger function is a copy of the first parameter to the corresponding
** [sqlite3_log()] call and is intended to be a [result code] or
 an
** [extended result code].  ^The third parameter passed to the logger is
** log message after formatting via [sqlite3_snprintf()].
** The SQLite logging interface is not reentrant; the logger function
** supplied by the application must not invoke any SQLite interface.
** In a multi-threaded application, the application-defined logger
** function must be threadsafe. </dd>
**
** [[SQLITE_CONFIG_URI]] <dt>SQLITE_CONFIG_URI
** <dd>^(The SQLITE_CONFIG_URI option takes a single argument of type int.
** If non-zero, then URI handling is globally enabled. If the parameter is zero,
** then URI handling is globally disabled.)^ ^If URI handling is globally
** enabled, all filenames passed to [sqlite3_open()], [sqlite3_open_v2()],
** [sqlite3_open16()] or
** specified as part of [ATTACH] commands are interpreted as URIs, regardless
** of whether or not the [SQLITE_OPEN_URI] flag is set when the database
** connection is opened. ^If it is globally disabled, filenames are
** only interpreted as
 URIs if the SQLITE_OPEN_URI flag is set when the
** database connection is opened. ^(By default, URI handling is globally
** disabled. The default value may be changed by compiling with the
** [SQLITE_USE_URI] symbol defined.)^
**
** [[SQLITE_CONFIG_COVERING_INDEX_SCAN]] <dt>SQLITE_CONFIG_COVERING_INDEX_SCAN
** <dd>^The SQLITE_CONFIG_COVERING_INDEX_SCAN option takes a single integer
** argument which is interpreted as a boolean in order to enable or disable
** the use of covering indices for full table scans in the query optimizer.
** ^The default setting is determined
** by the [SQLITE_ALLOW_COVERING_INDEX_SCAN] compile-time option, or is "on"
** if that compile-time option is omitted.
** The ability to disable the use of covering indices for full table scans
** is because some incorrectly coded legacy applications might malfunction
** when the optimization is enabled.  Providing the ability to
** disable the optimization allows the older, buggy application code to work
** without change
 even with newer versions of SQLite.
**
** [[SQLITE_CONFIG_PCACHE]] [[SQLITE_CONFIG_GETPCACHE]]
** <dt>SQLITE_CONFIG_PCACHE and SQLITE_CONFIG_GETPCACHE
** <dd> These options are obsolete and should not be used by new code.
** They are retained for backwards compatibility but are now no-ops.
** </dd>
```

```
**
** [[SQLITE_CONFIG_SQLLOG]]
** <dt>SQLITE_CONFIG_SQLLOG
** <dd>This option is only available if sqlite is compiled with the
** [SQLITE_ENABLE_SQLLOG] pre-processor macro defined. The first argument should
** be a pointer to a function of type void(*)(void*,sqlite3*,const char*, int).
** The second should be of type (void*). The callback is invoked by the library
** in three separate circumstances, identified by the value passed as the
** fourth parameter. If the fourth parameter is 0, then the database connection
** passed as the second argument has just been opened. The third argument
** points to a buffer containing the name of the main database file. If the
** fourth parameter is 1,
 then the SQL statement that the third parameter
** points to has just been executed. Or, if the fourth parameter is 2, then
** the connection being passed as the second parameter is being closed. The
** third parameter is passed NULL In this case.  An example of using this
** configuration option can be seen in the "test_sqllog.c" source file in
** the canonical SQLite source tree.</dd>
**
** [[SQLITE_CONFIG_MMAP_SIZE]]
** <dt>SQLITE_CONFIG_MMAP_SIZE
** <dd>^SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values
** that are the default mmap size limit (the default setting for
** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.
** ^The default setting can be overridden by each database connection using
** either the [PRAGMA mmap_size] command, or by using the
** [SQLITE_FCNTL_MMAP_SIZE] file control.  ^(The maximum allowed mmap size
** will be silently truncated if necessary so that it does not exceed the
** compile-time maximum mmap size set by the
** [SQLITE_MAX_MMAP_SIZE]
 compile-time option.)^
** ^If either argument to this option is negative, then that argument is
** changed to its compile-time default.
**
** [[SQLITE_CONFIG_WIN32_HEAPSIZE]]
** <dt>SQLITE_CONFIG_WIN32_HEAPSIZE
** <dd>^The SQLITE_CONFIG_WIN32_HEAPSIZE option is only available if SQLite is
** compiled for Windows with the [SQLITE_WIN32_MALLOC] pre-processor macro
** defined. ^SQLITE_CONFIG_WIN32_HEAPSIZE takes a 32-bit unsigned integer value
** that specifies the maximum size of the created heap.
**
** [[SQLITE_CONFIG_PCACHE_HDRSZ]]
** <dt>SQLITE_CONFIG_PCACHE_HDRSZ
** <dd>^The SQLITE_CONFIG_PCACHE_HDRSZ option takes a single parameter which
** is a pointer to an integer and writes into that integer the number of extra
** bytes per page required for each page in [SQLITE_CONFIG_PAGECACHE].
** The amount of extra space required can change depending on the compiler,
** target platform, and SQLite version.
```

```
**
** [[SQLITE_CONFIG_PMASZ]]
** <dt>SQLITE_CONFIG_PMASZ
** <dd>^The
 SQLITE_CONFIG_PMASZ option takes a single parameter which
** is an unsigned integer and sets the "Minimum PMA Size" for the multithreaded
** sorter to that integer.  The default minimum PMA Size is set by the
** [SQLITE_SORTER_PMASZ] compile-time option.  New threads are launched
** to help with sort operations when multithreaded sorting
** is enabled (using the [PRAGMA threads] command) and the amount of content
** to be sorted exceeds the page size times the minimum of the
** [PRAGMA cache_size] setting and this value.
**
** [[SQLITE_CONFIG_STMTJRNL_SPILL]]
** <dt>SQLITE_CONFIG_STMTJRNL_SPILL
** <dd>^The SQLITE_CONFIG_STMTJRNL_SPILL option takes a single parameter which
** becomes the [statement journal] spill-to-disk threshold.
** [Statement journals] are held in memory until their size (in bytes)
** exceeds this threshold, at which point they are written to disk.
** Or if the threshold is -1, statement journals are always held
** exclusively in memory.
** Since many statement journals
 never become large, setting the spill
** threshold to a value such as 64KiB can greatly reduce the amount of
** I/O required to support statement rollback.
** The default value for this setting is controlled by the
** [SQLITE_STMTJRNL_SPILL] compile-time option.
**
** [[SQLITE_CONFIG_SORTERREF_SIZE]]
** <dt>SQLITE_CONFIG_SORTERREF_SIZE
** <dd>The SQLITE_CONFIG_SORTERREF_SIZE option accepts a single parameter
** of type (int) - the new value of the sorter-reference size threshold.
** Usually, when SQLite uses an external sort to order records according
** to an ORDER BY clause, all fields required by the caller are present in the
** sorted records. However, if SQLite determines based on the declared type
** of a table column that its values are likely to be very large - larger
** than the configured sorter-reference size threshold - then a reference
** is stored in each sorted record and the required column values loaded
** from the database as records are returned in sorted order.
 The default
** value for this option is to never use this optimization. Specifying a
** negative value for this option restores the default behavior.
** This option is only available if SQLite is compiled with the
** [SQLITE_ENABLE_SORTER_REFERENCES] compile-time option.
**
** [[SQLITE_CONFIG_MEMDB_MAXSIZE]]
** <dt>SQLITE_CONFIG_MEMDB_MAXSIZE
** <dd>The SQLITE_CONFIG_MEMDB_MAXSIZE option accepts a single parameter
```

** [sqlite3_int64] parameter which is the default maximum size for an in-memory
** database created using [sqlite3_deserialize()]. This default maximum
** size can be adjusted up or down for individual databases using the
** [SQLITE_FCNTL_SIZE_LIMIT] [sqlite3_file_control|file-control]. If this
** configuration setting is never used, then the default maximum is determined
** by the [SQLITE_MEMDB_DEFAULT_MAXSIZE] compile-time option. If that
** compile-time option is not set, then the default maximum is 1073741824.
** </dl>
*/

Found in path(s):
* /opt/cola/permits/1949311916_1712730307.3400743/0/sqlite-amalgamation-3450200-zip/sqlite-amalgamation-3450200/sqlite3.h

1.3764 express 4.19.2

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1.3765 jaxb-core 4.0.5

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Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jaxb-ri
* https://github.com/eclipse-ee4j/jaxb-istack-commons
* https://github.com/eclipse-ee4j/jaxb-dtd-parser
* https://github.com/eclipse-ee4j/jaxb-fi
* https://github.com/eclipse-ee4j/jaxb-stax-ex
* https://github.com/eclipse-ee4j/jax-rpc-ri

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dom4j (1.6.1)

* License: Custom license based on Apache 1.1

file-management (3.0.0)

* License: Apache-2.0
* Project: https://maven.apache.org/shared/file-management/
* Source:
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1.3769 json-smart 2.5.1

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1.3777 log4j-layout-template-json 2.22.1

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1.3780 jsch 0.2.15

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1.3781 alertmanager 0.27.0

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1.3782 agent-base 7.1.1

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1.3783 jsch 0.2.17

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1.3784 kube-openapi 0.0.0-20240228011516-70dd3763d340

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}
# This source code was written by the Go contributors.
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package spec
```

```
import "testing"

func TestIntegrationLicense(t *testing.T) {
 license := License{Name: "the name", URL: "the url"}
 const licenseJSON = `{"name":"the name","url":"the url"}`
 const licenseYAML = "name: the name\nurl: the url\n"

 assertSerializeJSON(t, license, licenseJSON)
 assertParsesJSON(t, licenseJSON, license)
}
```

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1.3785 go-openapi-errors 0.22.0

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1.3788 activemq-shiro 5.18.3

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1.3799 asm 9.7

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Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable ``work that uses the Library'', as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the

Library will not necessarily be able to recompile the application
to use the modified definitions.)

@item
Use a suitable shared library mechanism for linking with the Library. A
suitable mechanism is one that (1) uses at run time a copy of the
library already present on the user's computer system, rather than
copying library functions into the executable,
and (2) will operate
properly with a modified version of the library, if the user installs
one, as long as the modified version is interface-compatible with the
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@page
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Ty Coon, President of Vice
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the free library to free
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
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compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
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However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a
"work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute
the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

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TERMS AND CONDITIONS

0. Definitions.

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"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

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work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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4 to
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c) You must license the entire work, as a whole, under this
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a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no

charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

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1.3801 postgresql-common 1.2-r1

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1.3802 github.com/hashicorp/go-msgpack/v2 2.1.1

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1.3803 ini 1.67.0

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting

Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see https://opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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Thanks to the many outside volunteers who have worked under Guido's
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1.3812 etcd-client-pkg 3.5.13

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1.3816 log4j-1.2-api 2.23.1

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import (
 "encoding/json"

 "github.com/go-openapi/swag"
)

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 LicenseProps
 VendorExtensible
}

// LicenseProps holds the properties of a License object
type LicenseProps struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}

// UnmarshalJSON
 hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
 if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
  return err
 }
 return json.Unmarshal(data, &l.VendorExtensible)
}

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
 b1, err := json.Marshal(l.LicenseProps)
 if err != nil {
  return nil, err
 }
 b2, err := json.Marshal(l.VendorExtensible)
 if err != nil {
  return nil, err
 }
 return swag.ConcatJSON(b1, b2), nil
}
```

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package spec

import (
 "encoding/json"
 "testing"

 "github.com/stretchr/testify/assert"
 "github.com/stretchr/testify/require"
)

var license = License{
 LicenseProps:     LicenseProps{Name: "the name", URL: "the url"},
 VendorExtensible: VendorExtensible{Extensions: map[string]interface{}{"x-license": "custom term"}}}

const licenseJSON = `{
 "name": "the name",
 "url": "the url",
 "x-license": "custom
```

```
 term"
}`

func TestIntegrationLicense(t *testing.T) {

 // const licenseYAML = "name: the name\nurl: the url\n"

 b, err := json.MarshalIndent(license, "", "\t")
 require.NoError(t, err)
 assert.Equal(t, licenseJSON, string(b))

 actual := License{}
 err = json.Unmarshal([]byte(licenseJSON), &actual)
 require.NoError(t, err)
 assert.EqualValues(t, license, actual)
}
```

1.3819 githubcomgoopenapistrfmt 0.23.0

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1.3826 pflag 1.0.5

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1.3827 logback-core 1.4.14

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*
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* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/net/server/ServerSocketListener.java
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* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/rolling/helper/RollingCalendar.java
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* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/joran/action/ImplicitModelAction.java
* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/model/processor/ModelInterpretationContext.java
* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/model/TimestampModel.java
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* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/model/InsertFromJNDIModel.java
* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/net/HardenedObjectInputStream.java
* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/model/ShutdownHookModel.java
* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/joran/sanity/SanityChecker.java
* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/model/ImplicitModel.java

* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/model/processor/conditional/ElseModelHandler.java
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 /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/model/processor/RefContainerDependencyAnalyser.java
* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/recovery/RecoveryListener.java
* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/model/Model.java
* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/joran/conditional/IfAction.java
* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/model/ComponentModel.java
* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/model/processor/ShutdownHookModelHandler.java
* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/model/conditional/ElseModel.java
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* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/joran/conditional/ElseAction.java
* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/joran/util/ParentTag_Tag_Class_Tuple.java
* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/model/conditional/IfModel.java
* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/model/processor/DefineModelHandler.java
* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/model/AppenderModel.java
* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/model/processor/ModelHandlerBase.java
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* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/model/NamedModel.java
* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/model/processor/conditional/ThenModelHandler.java
* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/model/processor/NOPModelHandler.java
* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/model/SiftModel.java
* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/model/processor/DependencyDefinition.java
* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/model/processor/SequenceNumberGeneratorModelHandler.java
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* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/model/processor/ProcessingPhase.java
* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/model/ImportModel.java
* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/model/ModelConstants.java
* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/joran/action/BaseModelAction.java
* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/model/StatusListenerModel.java
* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/rolling/TimeBasedRollingPolicy.java
*
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* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/rolling/TimeBasedFileNamingAndTriggeringPolicy.java
* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/model/SequenceNumberGeneratorModel.java
* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/model/ModelHandlerFactoryMethod.java
* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/model/DefineModel.java
* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/model/util/TagUtil.java
* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/joran/conditional/ThenAction.java
*
/opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/model/EventEvaluatorModel.java
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* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/testUtil/EnvUtilForTests.java
* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/testUtil/FileToBufferUtil.java
* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/util/SimpleInvocationGate.java
* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/testUtil/DelayingListAppender.java
* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/spi/ConfigurationEvent.java
* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/testUtil/StringListAppender.java
* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/testUtil/NPEAppender.java
* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/testUtil/TeeOutputStream.java
* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/testUtil/CoreTestConstants.java
* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/testUtil/RandomUtil.java
* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/testUtil/MockInitialContext.java
* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/testUtil/TrivialStatusListener.java
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* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/testUtil/MockInitialContextFactory.java
* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/spi/ConfigurationEventListener.java
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* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/testUtil/DummyEncoder.java
* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/model/processor/SerializeModelModelHandler.java
* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/testUtil/XTeeOutputStream.java
* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/joran/action/SerializeModelAction.java
* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/encoder/JsonEscapeUtil.java
* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/model/SerializeModelModel.java
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* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/util/EnvUtil.java
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* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/model/processor/ImplicitModelHandler.java
* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/sift/NOPSiftModelHandler.java
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* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/model/NamedComponentModel.java
* /opt/cola/permits/1967765274_1712669577.6610332/0/logback-core-1-4-14-sources-1-jar/ch/qos/logback/core/model/AppenderRefModel.java

1.3828 go-msgpack 2.1.1

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1.3829 platformdirs 2.6.2

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1.3830 python-dateutil 2.9.0.post0

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1.3831 python 3.12.3

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A. HISTORY OF THE SOFTWARE
==========

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became

Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

Footnotes:

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```
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* Poly1305 message authentication code, designed by D. J. Bernstein.
* <p>
* Poly1305 computes a 128-bit (16 bytes) authenticator, using a 128 bit nonce and a 256 bit key
* consisting of a 128 bit key applied to an underlying cipher, and a 128 bit key (with 106
* effective key bits) used in the authenticator.
* <p>
* The polynomial calculation in this implementation is adapted from the public domain <a
* href="https://github.com/floodyberry/poly1305-donna">poly1305-donna-unrolled</a> C implementation
* by Andrew M (@floodyberry).
* @see Poly1305KeyGenerator
*/
```

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/**
* Contains the polynomial classes used in the NTRU round 3 algorithm.
*
*
* This implementation is based on the C reference implementation submitted for the round 3 NIST PQC competition,
* released under CC0-1.0 license.
*
*
* NIST submission files
* License of reference implementation
*/

Found in path(s):
* /opt/cola/permits/1969444359_1712782181.1266284/0/bcprov-jdk18on-1-77-sources-jar/org/bouncycastle/pqc/math/ntru/package-info.java
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/**
* The NTRU algorithm based on the round 3 submission of the NIST post-quantum cryptography. For the old NTRU, see
* {@link org.bouncycastle.pqc.legacy.crypto.ntru}.
*
*
* This implementation is based on the C reference implementation submitted for the round 3 NIST PQC competition,
* released under CC0-1.0 license.
*
*
* NIST submission files
* License of reference implementation
*
* @see NIST round 3 PQC submissions page
* @see NTRU website
* @see NTRU specification

```
*/
```

Found in path(s):
* /opt/cola/permits/1969444359_1712782181.1266284/0/bcprov-jdk18on-1-77-sources-jar/org/bouncycastle/pqc/crypto/ntru/package-info.java
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```
/**
    * Magic value for proprietary OpenSSH private key.
    **/
```

Found in path(s):
* /opt/cola/permits/1969444359_1712782181.1266284/0/bcprov-jdk18on-1-77-sources-jar/org/bouncycastle/crypto/util/OpenSSHPrivateKeyUtil.java
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```
/**
* SPHINCS-256 signer.
* <p>
* This implementation is heavily based on the reference implementation in SUPERCOP, the main difference being the digests used
* for message hashing and tree construction are now configurable (within limits...) and that the implementation produces
* detached signatures.
* </p>
* <p>
* The SPHINCS reference implementation is public domain, as per the statement in the second last paragraph of
* section 1 in https://eprint.iacr.org/2014/795.pdf
* </p>
*/
```

Found in path(s):
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```
/**
* An implementation of <a href="https://tools.ietf.org/html/rfc7253">RFC 7253 on The OCB
* Authenticated-Encryption Algorithm</a>. For those still concerned about the original patents
* around this, please see:
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public DomainParameters(BigInteger p, BigInteger g, BigInteger q, BigInteger j,

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/**
* Contains the polynomial classes used in the NTRU round 3 algorithm.
*
*
* This implementation is based on the C reference implementation submitted for the round 3 NIST PQC competition,
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public DomainParameters(BigInteger p, BigInteger g, BigInteger q, BigInteger j,

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/**
* Poly1305 message authentication code, designed by D. J. Bernstein.
* <p>
* Poly1305 computes a 128-bit (16 bytes) authenticator, using a 128 bit nonce and a 256 bit key
* consisting of a 128 bit key applied to an underlying cipher, and a 128 bit key (with 106
* effective key bits) used in the authenticator.

```
* <p>
* The polynomial calculation in this implementation is adapted from the public domain <a
* href="https://github.com/floodyberry/poly1305-donna">poly1305-donna-unrolled</a> C implementation
* by Andrew M (@floodyberry).
* @see Poly1305KeyGenerator
*/
```

Found in path(s):
* /opt/cola/permits/1969444367_1712782065.2046475/0/bcprov-jdk18on-1-76-sources-1-jar/org/bouncycastle/crypto/macs/Poly1305.java
No license file was found, but licenses were detected in source scan.

```
/**
* The NTRU algorithm based on the round 3 submission of the NIST post-quantum cryptography. For the old NTRU, see
* {@link org.bouncycastle.pqc.legacy.crypto.ntru}.
*
* <p>
* This implementation is based on the C reference implementation submitted for the round 3 NIST PQC competition,
* released under CC0-1.0 license.
* </p>
*
* <p><a href="https://csrc.nist.gov/CSRC/media/Projects/post-quantum-cryptography/documents/round-3/submissions/NTRU-Round3.zip">NIST submission files</a></p>
* <p><a href="https://github.com/jschanck/ntru/blob/master/LICENSE">License of reference implementation</a></p>
*
* @see <a href="https://csrc.nist.gov/Projects/post-quantum-cryptography/round-3-submissions">NIST round 3 PQC submissions page</a>
* @see <a href="https://ntru.org/">NTRU website</a>
* @see <a href="https://ntru.org/f/ntru-20190330.pdf">NTRU specification</a>
*/
```

Found in path(s):
* /opt/cola/permits/1969444367_1712782065.2046475/0/bcprov-jdk18on-1-76-sources-1-jar/org/bouncycastle/pqc/crypto/ntru/package-info.java
No license file was found, but licenses were detected in source scan.

```
/**
* SPHINCS-256 signer.
* <p>
* This implementation is heavily based on the reference implementation in SUPERCOP, the main difference being the digests used
* for message hashing and tree construction are now configurable (within limits...) and that the implementation produces
* detached signatures.
* </p>
```

```
* <p>
* The SPHINCS reference implementation is public domain, as per the statement in the second last paragraph of
* section 1 in https://eprint.iacr.org/2014/795.pdf
* </p>
*/
```

Found in path(s):
* /opt/cola/permits/1969444367_1712782065.2046475/0/bcprov-jdk18on-1-76-sources-1-jar/org/bouncycastle/pqc/crypto/sphincs/SPHINCS256Signer.java
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```
// now keep space is free to use
```

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* /opt/cola/permits/1969444367_1712782065.2046475/0/bcprov-jdk18on-1-76-sources-1-jar/org/bouncycastle/pqc/legacy/crypto/gmss/GMSSPrivateKeyParameters.java
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```
/**
* An implementation of <a href="https://tools.ietf.org/html/rfc7253">RFC 7253 on The OCB
* Authenticated-Encryption Algorithm</a>. For those still concerned about the original patents
* around this, please see:
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```
/**
    * Magic value for proprietary OpenSSH private key.
    **/
```

Found in path(s):
* /opt/cola/permits/1969444367_1712782065.2046475/0/bcprov-jdk18on-1-76-sources-1-

jar/org/bouncycastle/crypto/util/OpenSSHPrivateKeyUtil.java

1.3836 okio 3.9.0

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* /opt/cola/permits/1969486683_1712782660.6733751/0/okio-3-9-0-sources-jar/nonJvmMain/okio/ForwardingSource.kt
* /opt/cola/permits/1969486683_1712782660.6733751/0/okio-3-9-0-sources-jar/zlibMain/okio/GzipSource.kt
* /opt/cola/permits/1969486683_1712782660.6733751/0/okio-3-9-0-sources-jar/commonMain/okio/Segment.kt
* /opt/cola/permits/1969486683_1712782660.6733751/0/okio-3-9-0-sources-jar/nonJvmMain/okio/RealBufferedSource.kt
* /opt/cola/permits/1969486683_1712782660.6733751/0/okio-3-9-0-sources-jar/nonJvmMain/okio/SegmentPool.kt
* /opt/cola/permits/1969486683_1712782660.6733751/0/okio-3-9-0-sources-jar/zlibMain/okio/ZlibOkio.kt
* /opt/cola/permits/1969486683_1712782660.6733751/0/okio-3-9-0-sources-jar/zlibMain/okio/GzipSink.kt
* /opt/cola/permits/1969486683_1712782660.6733751/0/okio-3-9-0-sources-jar/commonMain/okio/ForwardingSource.kt

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* /opt/cola/permits/1969486683_1712782660.6733751/0/okio-3-9-0-sources-jar/nonAppleMain/okio/ByteString.kt
* /opt/cola/permits/1969486683_1712782660.6733751/0/okio-3-9-0-sources-jar/commonMain/okio/internal/ByteString.kt
* /opt/cola/permits/1969486683_1712782660.6733751/0/okio-3-9-0-sources-jar/commonMain/okio/CommonPlatform.kt
* /opt/cola/permits/1969486683_1712782660.6733751/0/okio-3-9-0-sources-jar/commonMain/okio/Util.kt
* /opt/cola/permits/1969486683_1712782660.6733751/0/okio-3-9-0-sources-jar/commonMain/okio/internal/-Utf8.kt
* /opt/cola/permits/1969486683_1712782660.6733751/0/okio-3-9-0-sources-jar/commonMain/okio/ByteString.kt
* /opt/cola/permits/1969486683_1712782660.6733751/0/okio-3-9-0-sources-jar/nonJvmMain/okio/NonJvmPlatform.kt
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* /opt/cola/permits/1969486683_1712782660.6733751/0/okio-3-9-0-sources-jar/hashFunctions/okio/internal/Sha256.kt
* /opt/cola/permits/1969486683_1712782660.6733751/0/okio-3-9-0-sources-jar/hashFunctions/okio/internal/Md5.kt
* /opt/cola/permits/1969486683_1712782660.6733751/0/okio-3-9-0-sources-jar/hashFunctions/okio/internal/Sha512.kt
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* /opt/cola/permits/1969486683_1712782660.6733751/0/okio-3-9-0-sources-jar/commonMain/okio/internal/BufferedSource.kt
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* /opt/cola/permits/1969486683_1712782660.6733751/0/okio-3-9-0-sources-jar/commonMain/okio/internal/RealBufferedSink.kt
* /opt/cola/permits/1969486683_1712782660.6733751/0/okio-3-9-0-sources-jar/commonMain/okio/internal/SegmentedByteString.kt
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* /opt/cola/permits/1969486683_1712782660.6733751/0/okio-3-9-0-sources-jar/linuxMain/okio/LinuxPosixVariant.kt
* /opt/cola/permits/1969486683_1712782660.6733751/0/okio-3-9-0-sources-jar/nonJvmMain/okio/Path.kt
* /opt/cola/permits/1969486683_1712782660.6733751/0/okio-3-9-0-sources-jar/commonMain/okio/HashingSink.kt
* /opt/cola/permits/1969486683_1712782660.6733751/0/okio-3-9-0-sources-jar/commonMain/okio/ForwardingFileSystem.kt
* /opt/cola/permits/1969486683_1712782660.6733751/0/okio-3-9-0-sources-jar/nonJvmMain/okio/HashingSource.kt
* /opt/cola/permits/1969486683_1712782660.6733751/0/okio-3-9-0-sources-jar/nativeMain/okio/FileSource.kt
* /opt/cola/permits/1969486683_1712782660.6733751/0/okio-3-9-0-sources-jar/commonMain/okio/FileSystem.kt
* /opt/cola/permits/1969486683_1712782660.6733751/0/okio-3-9-0-sources-jar/nonJvmMain/okio/HashingSink.kt

* /opt/cola/permits/1969486683_1712782660.6733751/0/okio-3-9-0-sources-jar/commonMain/okio/HashingSource.kt
* /opt/cola/permits/1969486683_1712782660.6733751/0/okio-3-9-0-sources-jar/appleMain/okio/ApplePosixVariant.kt
* /opt/cola/permits/1969486683_1712782660.6733751/0/okio-3-9-0-sources-jar/commonMain/okio/ExperimentalFileSystem.kt
* /opt/cola/permits/1969486683_1712782660.6733751/0/okio-3-9-0-sources-jar/nativeMain/okio/PosixVariant.kt
* /opt/cola/permits/1969486683_1712782660.6733751/0/okio-3-9-0-sources-jar/nativeMain/okio/PosixFileSystem.kt
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* /opt/cola/permits/1969486683_1712782660.6733751/0/okio-3-9-0-sources-jar/commonMain/okio/FileMetadata.kt
* /opt/cola/permits/1969486683_1712782660.6733751/0/okio-3-9-0-sources-jar/nativeMain/okio/Cinterop.kt
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* /opt/cola/permits/1969486683_1712782660.6733751/0/okio-3-9-0-sources-jar/nativeMain/okio/FileSystem.kt
* /opt/cola/permits/1969486683_1712782660.6733751/0/okio-3-9-0-sources-jar/zlibMain/okio/internal/FixedLengthSource.kt
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* /opt/cola/permits/1969486683_1712782660.6733751/0/okio-3-9-0-sources-jar/zlibMain/okio/internal/-Zlib.kt
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 /opt/cola/permits/1969486683_1712782660.6733751/0/okio-3-9-0-sources-jar/nativeMain/okio/Deflater.kt
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* /opt/cola/permits/1969486683_1712782660.6733751/0/okio-3-9-0-sources-jar/nativeMain/okio/DeflaterSink.kt
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* /opt/cola/permits/1969486683_1712782660.6733751/0/okio-3-9-0-sources-jar/nativeMain/okio/internal/CRC32.kt
* /opt/cola/permits/1969486683_1712782660.6733751/0/okio-3-9-0-sources-jar/zlibMain/okio/DeflaterSink.kt
* /opt/cola/permits/1969486683_1712782660.6733751/0/okio-3-9-0-sources-jar/zlibMain/okio/internal/CRC32.kt

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* /opt/cola/permits/1969486683_1712782660.6733751/0/okio-3-9-0-sources-jar/commonMain/okio/Buffer.kt
* /opt/cola/permits/1969486683_1712782660.6733751/0/okio-3-9-0-sources-jar/commonMain/okio/internal/Buffer.kt
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* /opt/cola/permits/1969486683_1712782660.6733751/0/okio-3-9-0-sources-jar/nonJvmMain/okio/Buffer.kt
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* /opt/cola/permits/1969486683_1712782660.6733751/0/okio-3-9-0-sources-jar/zlibMain/okio/internal/ZipEntry.kt
* /opt/cola/permits/1969486683_1712782660.6733751/0/okio-3-9-0-sources-jar/zlibMain/okio/internal/ZipFiles.kt
* /opt/cola/permits/1969486683_1712782660.6733751/0/okio-3-9-0-sources-jar/zlibMain/okio/ZipFileSystem.kt

1.3837 log4j-to-slf4j 2.23.1

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1.3839 jackson-annotations 2.15.4

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1.3840 socks 2.8.3

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* /opt/cola/permits/1971591125_1712902086.5402324/0/cglib-2-2-sources-jar/net/sf/cglib/transform/impl/AddInitTransformer.java
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 /opt/cola/permits/1971591125_1712902086.5402324/0/cglib-2-2-sources-jar/net/sf/cglib/transform/impl/AbstractInterceptFieldCallback.java
* /opt/cola/permits/1971591125_1712902086.5402324/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/CallbackInfo.java
* /opt/cola/permits/1971591125_1712902086.5402324/0/cglib-2-2-sources-jar/net/sf/cglib/core/RejectModifierPredicate.java
* /opt/cola/permits/1971591125_1712902086.5402324/0/cglib-2-2-sources-jar/net/sf/cglib/core/MethodInfo.java

* /opt/cola/permits/1971591125_1712902086.5402324/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/MixinEverythingEmitter.java
* /opt/cola/permits/1971591125_1712902086.5402324/0/cglib-2-2-sources-jar/net/sf/cglib/core/ClassInfo.java
* /opt/cola/permits/1971591125_1712902086.5402324/0/cglib-2-2-sources-jar/net/sf/cglib/core/MethodInfoTransformer.java
* /opt/cola/permits/1971591125_1712902086.5402324/0/cglib-2-2-sources-jar/net/sf/cglib/transform/AbstractClassFilterTransformer.java
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* /opt/cola/permits/1971591125_1712902086.5402324/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/Dispatcher.java
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* /opt/cola/permits/1971591125_1712902086.5402324/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/InvocationHandler.java
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* /opt/cola/permits/1971591125_1712902086.5402324/0/cglib-2-2-sources-jar/net/sf/cglib/transform/FieldVisitorTee.java
* /opt/cola/permits/1971591125_1712902086.5402324/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/LazyLoader.java
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* /opt/cola/permits/1971591125_1712902086.5402324/0/cglib-2-2-sources-jar/net/sf/cglib/core/ReflectUtils.java
* /opt/cola/permits/1971591125_1712902086.5402324/0/cglib-2-2-sources-jar/net/sf/cglib/beans/BeanMap.java
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* /opt/cola/permits/1971591125_1712902086.5402324/0/cglib-2-2-sources-jar/net/sf/cglib/transform/ClassTransformerChain.java
* /opt/cola/permits/1971591125_1712902086.5402324/0/cglib-2-2-sources-jar/net/sf/cglib/core/VisibilityPredicate.java
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* /opt/cola/permits/1971591125_1712902086.5402324/0/cglib-2-2-sources-jar/net/sf/cglib/core/MethodWrapper.java
* /opt/cola/permits/1971591125_1712902086.5402324/0/cglib-2-2-sources-jar/net/sf/cglib/transform/ClassFilterTransformer.java
* /opt/cola/permits/1971591125_1712902086.5402324/0/cglib-2-2-sources-jar/net/sf/cglib/core/TypeUtils.java
* /opt/cola/permits/1971591125_1712902086.5402324/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/MethodProxy.java

1.3849 everit-json-schema 1.14.4

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* /opt/cola/permits/1972416322_1712946714.2338603/0/everit-json-schema-1-14-4-sources-1-jar/org/everit/json/schema/JSONPointerException.java
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1.3850 maxminddb-golang 1.11.0

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1.3851 etcd-client 3.5.13

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1.3852 x-crypto 0.22.0

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1.3853 supervisor 4.2.5

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1.3854 google-api-go-client 0.172.0

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1.3855 brotli 1.1.0-r2

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1.3856 jsonpatch 5.9.0+incompatible

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1.3857 kubernetes-component-base 0.29.0

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1.3858 gettext-go 1.0.2

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1.3859 go-colortext 1.0.0

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1.3860 gosqlite 1.14.19

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1.3861 six 1.16.0

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1.3862 caliper-runtime-battery-optim 0.1.0

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```
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@file:JvmName("SettingsSecureProxy")

package me.xx2bab.caliper.permission

import android.os.Build
import me.xx2bab.caliper.anno.ASMOpcodes
import me.xx2bab.caliper.anno.CaliperMethodProxy

object SettingsSecureProxy {

   const val abc = "getString"

   @CaliperMethodProxy(
      className = "android/provider/Settings\$Secure",
      methodName = abc,// "getString",
      opcode = ASMOpcodes.INVOKESTATIC
   )
   @JvmStatic
   fun getString(): String {
      return Build.BOARD.toString()
   }

}
@file:JvmName("AndroidOSBuildProxy")

package me.xx2bab.caliper.permission

import me.xx2bab.caliper.anno.ASMOpcodes
import me.xx2bab.caliper.anno.CaliperFieldProxy
import me.xx2bab.caliper.anno.CaliperMethodProxy

object AndroidOSBuildProxy {

   @CaliperMethodProxy(
      className = "android/os/Build",
      methodName = "getSerial",
      opcode = ASMOpcodes.INVOKESTATIC
   )
   @JvmStatic
   fun getSerial(): String {
      return ""
   }
   @CaliperFieldProxy(
      className = "android/os/Build",
      fieldName = "SERIAL",
      opcode = ASMOpcodes.GETSTATIC
```

```
  )
  @JvmStatic
  fun getSerialField(): String {
     return ""
  }

}
```

1.3863 slf4j-impl 2.23.1

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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

1.3870 activation-api 1.2.2

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Manifest-Version: 1.0
Bnd-LastModified: 1649403223965
Build-Jdk: 1.8.0_292
Built-By: runner
Bundle-Description: This module provides an interface for efficiently wr
iting localized messages out to a SLF4J Logger
Bundle-DocURL: https://github.com/OpenIdentityPlatform
Bundle-License: http://www.opensource.org/licenses/CDDL-1.0
Bundle-ManifestVersion: 2
Bundle-Name: org.openidentityplatform.commons.i18n-framework.slf4j
Bundle-SymbolicName: org.openidentityplatform.commons.i18n-framework.slf
4j
Bundle-Vendor: Open Identity Platform Community
Bundle-Version: 2.0.13
Created-By: Apache Maven Bundle Plugin
Export-Package: org.forgerock.i18n.slf4j;uses:="org.slf4j,org.forgerock.
i18n";version="2.0.13"
Import-Package: org.forgerock.i18n;version="[2.0,3)",org.slf4j;version="
[1.7,2)"
Tool: Bnd-1.50.0
```

Found in path(s):
* /opt/cola/permits/1978661198_1713370598.0577705/0/slf4j-2-0-13-jar/META-INF/MANIFEST.MF
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1.3872 snappy 0.0.3

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1.3873 xxhash 2.3.0

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1.3874 klauspost-compress 1.17.8

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1.3875 stdlib go1.21.1

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Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

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1.3882 spring-security-web 5.8.11

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* /opt/cola/permits/1979449080_1713450380.142486/0/spring-security-web-5-8-11-sources-

jar/org/springframework/security/web/authentication/RememberMeServices.java
* /opt/cola/permits/1979449080_1713450380.142486/0/spring-security-web-5-8-11-sources-
jar/org/springframework/security/web/access/intercept/FilterInvocationSecurityMetadataSource.java
* /opt/cola/permits/1979449080_1713450380.142486/0/spring-security-web-5-8-11-sources-
jar/org/springframework/security/web/authentication/AnonymousAuthenticationFilter.java
* /opt/cola/permits/1979449080_1713450380.142486/0/spring-security-web-5-8-11-sources-
jar/org/springframework/security/web/savedrequest/FastHttpDateFormat.java
*
/opt/cola/permits/1979449080_1713450380.142486/0/spring-security-web-5-8-11-sources-
jar/org/springframework/security/web/authentication/www/NonceExpiredException.java
* /opt/cola/permits/1979449080_1713450380.142486/0/spring-security-web-5-8-11-sources-
jar/org/springframework/security/web/savedrequest/SavedRequestAwareWrapper.java
* /opt/cola/permits/1979449080_1713450380.142486/0/spring-security-web-5-8-11-sources-
jar/org/springframework/security/web/authentication/LoginUrlAuthenticationEntryPoint.java
* /opt/cola/permits/1979449080_1713450380.142486/0/spring-security-web-5-8-11-sources-
jar/org/springframework/security/web/PortResolverImpl.java
* /opt/cola/permits/1979449080_1713450380.142486/0/spring-security-web-5-8-11-sources-
jar/org/springframework/security/web/savedrequest/SimpleSavedRequest.java
* /opt/cola/permits/1979449080_1713450380.142486/0/spring-security-web-5-8-11-sources-
jar/org/springframework/security/web/access/AccessDeniedHandler.java
*
/opt/cola/permits/1979449080_1713450380.142486/0/spring-security-web-5-8-11-sources-
jar/org/springframework/security/web/authentication/rememberme/TokenBasedRememberMeServices.java
* /opt/cola/permits/1979449080_1713450380.142486/0/spring-security-web-5-8-11-sources-
jar/org/springframework/security/web/authentication/logout/SecurityContextLogoutHandler.java
* /opt/cola/permits/1979449080_1713450380.142486/0/spring-security-web-5-8-11-sources-
jar/org/springframework/security/web/authentication/switchuser/SwitchUserFilter.java
* /opt/cola/permits/1979449080_1713450380.142486/0/spring-security-web-5-8-11-sources-
jar/org/springframework/security/web/authentication/www/DigestAuthenticationEntryPoint.java
* /opt/cola/permits/1979449080_1713450380.142486/0/spring-security-web-5-8-11-sources-
jar/org/springframework/security/web/savedrequest/Enumerator.java
* /opt/cola/permits/1979449080_1713450380.142486/0/spring-security-web-5-8-11-sources-
jar/org/springframework/security/web/access/intercept/FilterSecurityInterceptor.java
*
/opt/cola/permits/1979449080_1713450380.142486/0/spring-security-web-5-8-11-sources-
jar/org/springframework/security/web/session/HttpSessionDestroyedEvent.java
* /opt/cola/permits/1979449080_1713450380.142486/0/spring-security-web-5-8-11-sources-
jar/org/springframework/security/web/authentication/logout/LogoutHandler.java
* /opt/cola/permits/1979449080_1713450380.142486/0/spring-security-web-5-8-11-sources-
jar/org/springframework/security/web/servletapi/SecurityContextHolderAwareRequestWrapper.java
* /opt/cola/permits/1979449080_1713450380.142486/0/spring-security-web-5-8-11-sources-
jar/org/springframework/security/web/access/WebInvocationPrivilegeEvaluator.java
* /opt/cola/permits/1979449080_1713450380.142486/0/spring-security-web-5-8-11-sources-
jar/org/springframework/security/web/authentication/NullRememberMeServices.java
* /opt/cola/permits/1979449080_1713450380.142486/0/spring-security-web-5-8-11-sources-
jar/org/springframework/security/web/authentication/logout/LogoutFilter.java
*

/opt/cola/permits/1979449080_1713450380.142486/0/spring-security-web-5-8-11-sources-jar/org/springframework/security/web/authentication/WebAuthenticationDetailsSource.java
* /opt/cola/permits/1979449080_1713450380.142486/0/spring-security-web-5-8-11-sources-jar/org/springframework/security/web/AuthenticationEntryPoint.java
* /opt/cola/permits/1979449080_1713450380.142486/0/spring-security-web-5-8-11-sources-jar/org/springframework/security/web/session/HttpSessionCreatedEvent.java
* /opt/cola/permits/1979449080_1713450380.142486/0/spring-security-web-5-8-11-sources-jar/org/springframework/security/web/servletapi/SecurityContextHolderAwareRequestFilter.java
* /opt/cola/permits/1979449080_1713450380.142486/0/spring-security-web-5-8-11-sources-jar/org/springframework/security/web/authentication/WebAuthenticationDetails.java
* /opt/cola/permits/1979449080_1713450380.142486/0/spring-security-web-5-8-11-sources-jar/org/springframework/security/web/session/HttpSessionEventPublisher.java
*
/opt/cola/permits/1979449080_1713450380.142486/0/spring-security-web-5-8-11-sources-jar/org/springframework/security/web/access/channel/RetryWithHttpsEntryPoint.java
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* /opt/cola/permits/1979449080_1713450380.142486/0/spring-security-web-5-8-11-sources-jar/org/springframework/security/web/jackson2/SavedCookieMixin.java
*
/opt/cola/permits/1979449080_1713450380.142486/0/spring-security-web-5-8-11-sources-jar/org/springframework/security/web/jackson2/WebJackson2Module.java
* /opt/cola/permits/1979449080_1713450380.142486/0/spring-security-web-5-8-11-sources-jar/org/springframework/security/web/session/SessionInformationExpiredStrategy.java
* /opt/cola/permits/1979449080_1713450380.142486/0/spring-security-web-5-8-11-sources-jar/org/springframework/security/web/jackson2/WebAuthenticationDetailsMixin.java
* /opt/cola/permits/1979449080_1713450380.142486/0/spring-security-web-5-8-11-sources-jar/org/springframework/security/web/jackson2/CookieMixin.java
* /opt/cola/permits/1979449080_1713450380.142486/0/spring-security-web-5-8-11-sources-

jar/org/springframework/security/web/jackson2/PreAuthenticatedAuthenticationTokenMixin.java
* /opt/cola/permits/1979449080_1713450380.142486/0/spring-security-web-5-8-11-sources-jar/org/springframework/security/web/jackson2/DefaultSavedRequestMixin.java
*
 /opt/cola/permits/1979449080_1713450380.142486/0/spring-security-web-5-8-11-sources-jar/org/springframework/security/web/jackson2/WebServletJackson2Module.java
* /opt/cola/permits/1979449080_1713450380.142486/0/spring-security-web-5-8-11-sources-jar/org/springframework/security/web/jackson2/DefaultCsrfTokenMixin.java
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* /opt/cola/permits/1979449080_1713450380.142486/0/spring-security-web-5-8-11-sources-jar/org/springframework/security/web/authentication/DelegatingAuthenticationEntryPoint.java
*
 /opt/cola/permits/1979449080_1713450380.142486/0/spring-security-web-5-8-11-sources-jar/org/springframework/security/web/util/matcher/RequestMatcherEditor.java
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* /opt/cola/permits/1979449080_1713450380.142486/0/spring-security-web-5-8-11-sources-jar/org/springframework/security/web/access/expression/EvaluationContextPostProcessor.java
* /opt/cola/permits/1979449080_1713450380.142486/0/spring-security-web-5-8-11-sources-jar/org/springframework/security/web/access/expression/AbstractVariableEvaluationContextPostProcessor.java

* /opt/cola/permits/1979449080_1713450380.142486/0/spring-security-web-5-8-11-sources-jar/org/springframework/security/web/access/DelegatingAccessDeniedHandler.java
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* /opt/cola/permits/1979449080_1713450380.142486/0/spring-security-web-5-8-11-sources-jar/org/springframework/security/web/server/header/XContentTypeOptionsServerHttpHeadersWriter.java
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* /opt/cola/permits/1979449080_1713450380.142486/0/spring-security-web-5-8-11-sources-jar/org/springframework/security/web/csrf/CsrfToken.java
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* /opt/cola/permits/1979449080_1713450380.142486/0/spring-security-web-5-8-11-sources-jar/org/springframework/security/web/server/authentication/AuthenticationWebFilter.java
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*/

Found in path(s):
* /opt/cola/permits/1979449080_1713450380.142486/0/spring-security-web-5-8-11-sources-

jar/org/springframework/security/web/authentication/www/DigestAuthenticationFilter.java

1.3883 jaraco-functools 4.0.1

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1.3884 githubcommattngocolorable 0.1.13

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1.3885 github.com/gabriel-vasile/mimetype 1.4.3

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1.3886 locales 0.14.1

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1.3887 universal-translator 0.18.1

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1.3888 lombok 1.18.32

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rzwitserloot/com.zwitserloot.cmdreader

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projectlombok/lombok.patcher

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1.3889 githubcommattngoisatty 0.0.20

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1.3890 github.com/pierrec/lz4/v4 4.1.21

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1.3891 stretchr-objx 0.5.2

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1.3892 xz 0.5.10

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```
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package main

import (
 "bufio"
 "bytes"
 "flag"
 "fmt"
 "io"
 "log"
 "os"
 "path/filepath"
 "strings"
)

const crUsageString = `xb copyright [options] <path>....

The xb copyright command adds a copyright remark to all go files below path.

 -h  prints this message and exits
`

func crUsage(w io.Writer) {
 fmt.Fprint(w, crUsageString)
}

const copyrightText = `
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license that can be found in the LICENSE file.
`

func goComment(text string) string {
 buf := new(bytes.Buffer)
 scanner := bufio.NewScanner(strings.NewReader(text))
 var err error
 for scanner.Scan() {
  s := strings.TrimSpace(scanner.Text())
  if len(s) == 0 {
   continue
  }
```

```
 if _, err = fmt.Fprintln(buf, "//", s); err != nil {
  panic(err)
 }
}
if err
= scanner.Err(); err != nil {
 panic(err)
}
if _, err = fmt.Fprintln(buf); err != nil {
 panic(err)
}
return buf.String()
}

var goCopyright = goComment(copyrightText)

func addCopyright(path string) (err error) {
 log.Printf("adding copyright to %s", path)
 src, err := os.Open(path)
 if err != nil {
  return err
 }
 defer func() {
  cerr := src.Close()
  if cerr != nil && err == nil {
   err = cerr
  }
 }()
 newPath := path + ".new"
 dst, err := os.Create(newPath)
 if err != nil {
  return err
 }
 defer func() {
  cerr := dst.Close()
  if cerr != nil && err == nil {
   err = cerr
  }
 }()
 out := bufio.NewWriter(dst)
 fmt.Fprint(out, goCopyright)
 scanner := bufio.NewScanner(src)
 line := 0
 del := false
 for scanner.Scan() {
  line++
  txt := scanner.Text()
  if line == 1 && strings.Contains(txt, "Copyright") {
```

```
  del = true
  continue
 }
 if del {
  s := strings.TrimSpace(txt)
  if len(s) == 0 {
   del = false
  }
  continue
 }
 fmt.Fprintln(out, txt)
}
if err = scanner.Err();
err != nil {
 return err
}
if err = out.Flush(); err != nil {
 return
}
err = os.Rename(newPath, path)
return
}

func walkCopyrights(path string, info os.FileInfo, err error) error {
 if err != nil {
  return err
 }
 if info.IsDir() {
  return nil
 }
 if !strings.HasSuffix(info.Name(), ".go") {
  return nil
 }
 return addCopyright(path)
}

func copyright() {
 cmdName := os.Args[0]
 log.SetPrefix(fmt.Sprintf("%s: ", cmdName))
 log.SetFlags(0)

 flag.CommandLine = flag.NewFlagSet(cmdName, flag.ExitOnError)
 flag.Usage = func() { crUsage(os.Stderr); os.Exit(1) }

 help := flag.Bool("h", false, "")

 flag.Parse()
```

```
 if *help {
  crUsage(os.Stdout)
  os.Exit(0)
 }

 for _, path := range flag.Args() {
  fi, err := os.Stat(path)
  if err != nil {
   log.Print(err)
   continue
  }
  if !fi.IsDir() {
   log.Printf("%s is not a directory", path)
   continue
  }
  if err = filepath.Walk(path, walkCopyrights); err != nil {
   log.Fatalf("%s error %s", path, err)
  }
 }
}
package main

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1.3893 configparser 7.0.0

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1.3894 sqlite 3.45.3

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1.3895 github.com/seatgeek/logrus-gelf-formatter 0.0.0-20210414080842-5b05eb8ff761

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1.3896 pyparsing 3.0.9

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1.3897 jul-to-slf4j 2.0.13

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1.3898 spring-framework 6.1.6

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* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/cglib/core/VisibilityPredicate.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/cglib/transform/ClassTransformerChain.java
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* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/cglib/beans/BulkBeanEmitter.java

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* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/cglib/proxy/MethodInterceptorGenerator.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/cglib/proxy/FixedValueGenerator.java
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* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/cglib/reflect/MethodDelegate.java
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* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/cglib/reflect/FastClass.java
*
/opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/cglib/core/AbstractClassGenerator.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/cglib/transform/ClassFilterTransformer.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/cglib/core/MethodWrapper.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/cglib/beans/BeanMapEmitter.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/cglib/reflect/FastMethod.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/cglib/reflect/MulticastDelegate.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/cglib/core/CodeEmitter.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/cglib/core/DebuggingClassWriter.java
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/opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/cglib/proxy/CallbackGenerator.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/cglib/proxy/CallbackFilter.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/cglib/core/DefaultNamingPolicy.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/cglib/core/KeyFactory.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/cglib/beans/ImmutableBean.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/cglib/proxy/MethodProxy.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/cglib/reflect/FastClassEmitter.java
*

/opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/cglib/beans/BeanCopier.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/cglib/proxy/MixinEmitter.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/cglib/proxy/DispatcherGenerator.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/cglib/core/EmitUtils.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/cglib/core/AsmApi.java
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org.springframework.core.ReactiveAdapterRegistry$SpringCoreBlockHoundIntegration

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* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/annotation/AnnotationsProcessor.java
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/opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/util/xml/XMLEventStreamReader.java
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* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/log/LogDelegateFactory.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/asm/SpringAsmInfo.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/env/StandardEnvironment.java
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/opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/objenesis/SpringObjenesis.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/util/PropertyPlaceholderHelper.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/SmartClassLoader.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/io/buffer/DataBufferLimitException.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/io/ResourceLoader.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/type/StandardAnnotationMetadata.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/type/MethodMetadata.java
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/opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/codec/Encoder.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/ConfigurableObjectInputStream.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/io/InputStreamSource.java
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* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/convert/support/StringToCharacterConverter.java
*
 /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/env/EnumerablePropertySource.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/env/MapPropertySource.java

* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/env/AbstractPropertyResolver.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/util/SimpleIdGenerator.java
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* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/annotation/MergedAnnotationCollectors.java
*
/opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/env/SimpleCommandLineArgsParser.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/metrics/StartupStep.java
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* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/PrioritizedParameterNameDiscoverer.java
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/opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/util/comparator/InstanceComparator.java
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* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/convert/converter/ConverterFactory.java
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* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/type/filter/AbstractTypeHierarchyTraversingFilter.java

* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/aot/generate/DefaultMethodReference.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/CoroutinesUtils.java
*
/opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/util/ClassUtils.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/ResolvableType.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/annotation/TypeMappedAnnotation.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/annotation/AttributeMethods.java
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jar/org/springframework/cglib/core/LocalVariablesSorter.java
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* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/objenesis/instantiator/basic/AccessibleInstantiator.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/objenesis/instantiator/perc/PercSerializationInstantiator.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/objenesis/instantiator/annotations/Instantiator.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/objenesis/instantiator/basic/ObjectInputStreamInstantiator.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/objenesis/ObjenesisHelper.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/objenesis/instantiator/basic/ConstructorInstantiator.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/objenesis/instantiator/sun/SunReflectionFactoryInstantiator.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/objenesis/instantiator/basic/FailingInstantiator.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/objenesis/instantiator/android/Android10Instantiator.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/objenesis/strategy/StdInstantiatorStrategy.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/objenesis/strategy/InstantiatorStrategy.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/objenesis/instantiator/gcj/GCJSerializationInstantiator.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/objenesis/Objenesis.java

* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/objenesis/ObjenesisStd.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/objenesis/instantiator/annotations/Typology.java
*
 /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/objenesis/ObjenesisException.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/objenesis/instantiator/sun/SunReflectionFactorySerializationInstantiator.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/objenesis/instantiator/basic/ProxyingInstantiator.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/objenesis/ObjenesisSerializer.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/objenesis/instantiator/android/AndroidSerializationInstantiator.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/objenesis/instantiator/ObjectInstantiator.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/objenesis/instantiator/android/Android17Instantiator.java
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 /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/objenesis/strategy/PlatformDescription.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/objenesis/instantiator/sun/SunReflectionFactoryHelper.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/objenesis/strategy/BaseInstantiatorStrategy.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/objenesis/instantiator/perc/PercInstantiator.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/objenesis/instantiator/basic/NewInstanceInstantiator.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/objenesis/instantiator/android/Android18Instantiator.java
*
 /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/objenesis/ObjenesisBase.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/objenesis/instantiator/util/UnsafeUtils.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/objenesis/instantiator/SerializationInstantiatorHelper.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/objenesis/instantiator/gcj/GCJInstantiatorBase.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/objenesis/instantiator/basic/NullInstantiator.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/objenesis/instantiator/sun/MagicInstantiator.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/objenesis/instantiator/sun/UnsafeFactoryInstantiator.java
*

/opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/objenesis/instantiator/util/ClassUtils.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/objenesis/instantiator/gcj/GCJInstantiator.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/objenesis/instantiator/basic/DelegatingToExoticInstantiator.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/objenesis/strategy/SerializingInstantiatorStrategy.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/objenesis/instantiator/basic/ObjectStreamClassInstantiator.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/objenesis/strategy/SingleInstantiatorStrategy.java
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* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/javapoet/CodeWriter.java
*
/opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/javapoet/TypeName.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/javapoet/ParameterizedTypeName.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/javapoet/WildcardTypeName.java
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* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/javapoet/Util.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/javapoet/FieldSpec.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/javapoet/JavaFile.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/javapoet/ParameterSpec.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/javapoet/ArrayTypeName.java
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* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/codec/DataBufferDecoder.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/util/concurrent/ListenableFuture.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/io/buffer/DataBufferFactory.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/aot/nativex/NativeConfigurationWriter.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/io/VfsUtils.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-

jar/org/springframework/util/concurrent/FailureCallback.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/aot/hint/ExecutableMode.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/codec/AbstractSingleValueEncoder.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/aot/generate/GenerationContext.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/codec/NettyByteBufDecoder.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/NestedExceptionUtils.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/aot/generate/GeneratedTypeReference.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/util/function/ThrowingBiFunction.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/io/buffer/DataBufferInputStream.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/task/TaskTimeoutException.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/aot/hint/annotation/RegisterReflectionForBindingProcessor.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/aot/hint/predicate/ResourceHintsPredicates.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/aot/hint/predicate/RuntimeHintsPredicates.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/annotation/MergedAnnotation.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/aot/nativex/substitution/Target_ClassFinder.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/util/concurrent/FutureUtils.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/aot/generate/FileSystemGeneratedFiles.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/io/support/ResourceRegion.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/aot/hint/SerializationHints.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/io/buffer/DefaultDataBufferFactory.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/convert/support/StringToLocaleConverter.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/annotation/MergedAnnotationPredicates.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/util/xml/DomContentHandler.java

* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/util/function/ThrowingFunction.java
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* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/util/xml/XmlValidationModeDetector.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/annotation/AnnotationConfigurationException.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/io/support/PropertiesLoaderSupport.java
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* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/io/support/ResourcePatternResolver.java
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* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/annotation/AnnotatedElementUtils.java
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* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/codec/NettyByteBufEncoder.java
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* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/log/CompositeLog.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/annotation/TypeMappedAnnotations.java
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* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/aot/hint/RuntimeHintsRegistrar.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/aot/hint/annotation/ReflectiveRuntimeHintsRegistrar.java
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/opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/util/xml/DomUtils.java
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* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/convert/converter/ConditionalConverter.java
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* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/convert/support/CollectionToCollectionConverter.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/util/ExceptionTypeFilter.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/util/xml/StaxStreamHandler.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/convert/support/ObjectToCollectionConverter.java
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* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/convert/support/ObjectToStringConverter.java
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* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/cglib/proxy/MethodInterceptor.java
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* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/serializer/DefaultSerializer.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/util/AlternativeJdkIdGenerator.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/util/ResizableByteArrayOutputStream.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/convert/converter/ConditionalGenericConverter.java
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* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/cglib/transform/impl/AccessFieldTransformer.java
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* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/cglib/core/CodeGenerationException.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/cglib/transform/impl/UndeclaredThrowableTransformer.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/cglib/proxy/NoOp.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/cglib/core/Transformer.java
*
/opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/cglib/transform/AnnotationVisitorTee.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/cglib/core/ClassesKey.java
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* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/cglib/util/SorterTemplate.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/cglib/transform/impl/UndeclaredThrowableStrategy.java
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* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/asm/ModuleWriter.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/asm/MethodWriter.java
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/opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/asm/ClassWriter.java
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* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/ReactiveAdapter.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/codec/DataBufferEncoder.java
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* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/codec/ByteBufferEncoder.java
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* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/Ordered.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/util/PathMatcher.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/annotation/IntrospectionFailureLogger.java
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* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/task/SyncTaskExecutor.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/convert/support/NumberToCharacterConverter.java
* /opt/cola/permits/1982457754_1713770402.4312186/0/spring-core-6-1-6-sources-jar/org/springframework/core/InfrastructureProxy.java
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1.3899 go-hclog 1.6.3

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1.3909 github.com/jcmturner/dnsutils/v2 2.0.0

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1.3910 github.com/jcmturner/rpc/v2 2.0.3

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1.3911 github.com/jcmturner/aescts/v2 2.0.0

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1.3912 github.com/jackc/pgpassfile 1.0.0

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fields:
  site: string
  author: root

1.3914 hashicorp-go-uuid 1.0.3

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1.3924 github.com/goccy/go-json 0.10.2

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1.3926 githubcommailrueasyjson 0.7.7

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1.3927 go-spew 1.1.2-0.20180830191138-d8f796af33cc

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1.3928 github.com/google/s2a-go 0.1.7

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1.3929 github.com/googleapis/enterprise-certificate-proxy 0.3.2

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1.3935 github.com/google/gnostic-models 0.6.8

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1.3940 go.opentelemetry.io/proto/otlp 1.0.0

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1.3941 go-uber-org-zap 1.26.0

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1.3942 github.com/coreos/go-systemd/v22 22.5.0

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1.3943 github.com/xhit/go-str2duration/v2 2.1.0

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1.3944 github.com/krallistic/kazoo-go 0.0.0-20170526135507-a15279744f4e

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1.3945 github.com/vultr/govultr/v2 2.17.2

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1.3946 github.com/go-zookeeper/zk 1.0.3

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1.3947 github.com/hashicorp/cronexpr 1.1.2

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1.3956 github.com/dennwc/varint 1.0.0

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1.3959 github.com/golang-sql/sqlexp 0.1.0

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1.3960 github.com/jackc/chunkreader/v2 2.0.1

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1.3962 github.com/golang-sql/civil 0.0.0-20220223132316-b832511892a9

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1.3966 github.com/cloudflare/circl 1.3.7

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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

1.3968 hashicorp-golang-lru 1.0.2

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1.3971 githubcomgooglebtree 1.1.2

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1.3972 github.com/klauspost/cpuid/v2 2.2.5

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1.3973 github.com/protonmail/go-crypto 0.0.0-20230828082145-3c4c8a2d2371

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1.3974 github.com/jcmturner/gokrb5/v8 8.4.4

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1.3975 go-xerial-snappy 0.0.0-20230731223053-c322873962e3

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1.3976 github.com/jackc/pgtype 1.14.0

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1.3977 github.com/go-jose/go-jose/v3 3.0.3

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1.3978 github.com/jackc/pgconn 1.14.3

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1.3979 github.com/jackc/pgproto3/v2 2.3.3

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1.3980 go-autorest 0.9.23

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1.3981 go.uber.org/atomi 1.11.0

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1.3982 github.com/fatih/camelcase 1.0.0

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1.3983 google-uuid 1.4.0

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1.3984 logback-core 1.2.13

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* /opt/cola/permits/1984639850_1713938441.0343678/0/logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/pattern/color/WhiteCompositeConverter.java
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* /opt/cola/permits/1984639850_1713938441.0343678/0/logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/rolling/SizeAndTimeBasedFNATP.java
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1.3986 github.com/josharian/native 1.1.0

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1.3987 github.com/zeebo/xxh3 1.0.2

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1.3988 github.com/mdlayher/socket 0.4.1

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1.3989 github.com/safchain/ethtool 0.3.0

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1.3990 gopkg.in/ini.v1 1.67.0

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1.3991 gopkg-in-alecthomas-kingpin-v2 2.2.6

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1.3992 goglob 1.0.0

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1.3993 status 1.1.1

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1.3994 json iterator go 1.1.12

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1.3995 go-stdlib 1.0.0

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1.3996 mux 1.8.0

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1.3997 julienschmidt-httprouter 1.3.0

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1.3998 gogrpcmiddleware 1.4.0

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1.3999 govmomi 0.32.0

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*/

package license

import (
 "context"
 "flag"

 "github.com/vmware/govmomi/govc/cli"
 "github.com/vmware/govmomi/govc/flags"
 "github.com/vmware/govmomi/license"
```

```
)

var featureUsage = "List licenses with given feature"

type ls struct {
 *flags.ClientFlag
 *flags.OutputFlag

 feature string
}

func init() {
 cli.Register("license.ls", &ls{})
}

func (cmd *ls) Register(ctx context.Context, f *flag.FlagSet) {
 cmd.ClientFlag,
 ctx = flags.NewClientFlag(ctx)
 cmd.ClientFlag.Register(ctx, f)

 cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
 cmd.OutputFlag.Register(ctx, f)

 f.StringVar(&cmd.feature, "feature", "", featureUsage)
}

func (cmd *ls) Process(ctx context.Context) error {
 if err := cmd.ClientFlag.Process(ctx); err != nil {
  return err
 }
 if err := cmd.OutputFlag.Process(ctx); err != nil {
  return err
 }
 return nil
}

func (cmd *ls) Run(ctx context.Context, f *flag.FlagSet) error {
 client, err := cmd.Client()
 if err != nil {
  return err
 }

 m := license.NewManager(client)
 result, err := m.List(ctx)
 if err != nil {
  return err
 }
```

```
 if cmd.feature != "" {
  result = result.WithFeature(cmd.feature)
 }

 return cmd.WriteResult(licenseOutput(result))
}
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import (
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 "flag"

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 "github.com/vmware/govmomi/govc/flags"
 "github.com/vmware/govmomi/license"
 "github.com/vmware/govmomi/vim25/types"
)

type assign struct {
 *flags.ClientFlag
 *flags.OutputFlag
 *flags.HostSystemFlag
 *flags.ClusterFlag

 name   string
 remove bool
}

func init() {
 cli.Register("license.assign", &assign{})
}
```

```
func (cmd *assign)
 Register(ctx context.Context, f *flag.FlagSet) {
 cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
 cmd.ClientFlag.Register(ctx, f)

 cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
 cmd.OutputFlag.Register(ctx, f)

 cmd.HostSystemFlag, ctx = flags.NewHostSystemFlag(ctx)
 cmd.HostSystemFlag.Register(ctx, f)

 cmd.ClusterFlag, ctx = flags.NewClusterFlag(ctx)
 cmd.ClusterFlag.Register(ctx, f)

 f.StringVar(&cmd.name, "name", "", "Display name")
 f.BoolVar(&cmd.remove, "remove", false, "Remove assignment")
}

func (cmd *assign) Process(ctx context.Context) error {
 if err := cmd.ClientFlag.Process(ctx); err != nil {
  return err
 }
 if err := cmd.OutputFlag.Process(ctx); err != nil {
  return err
 }
 if err := cmd.HostSystemFlag.Process(ctx); err != nil {
  return err
 }
 return cmd.ClusterFlag.Process(ctx)
}

func (cmd *assign) Usage() string {
 return "KEY"
}

func (cmd *assign) Description() string {
 return `Assign licenses to HOST or CLUSTER.

Examples:
 govc license.assign $VCSA_LICENSE_KEY
  govc license.assign -host a_host.example.com $ESX_LICENSE_KEY
 govc license.assign -cluster a_cluster $VSAN_LICENSE_KEY`
}

func (cmd *assign) Run(ctx context.Context, f *flag.FlagSet) error {
 if f.NArg() != 1 {
  return flag.ErrHelp
 }
```

```
key := f.Arg(0)

client, err := cmd.Client()
if err != nil {
 return err
}

m, err := license.NewManager(client).AssignmentManager(ctx)
if err != nil {
 return err
}

host, err := cmd.HostSystemIfSpecified()
if err != nil {
 return err
}

var id string

if host == nil {
 cluster, cerr := cmd.ClusterIfSpecified()
 if cerr != nil {
  return cerr
 }
 if cluster == nil {
  // Default to vCenter UUID
  id = client.ServiceContent.About.InstanceUuid
 } else {
  id = cluster.Reference().Value
 }
} else {
 id = host.Reference().Value
}

if cmd.remove {
 return m.Remove(ctx, id)
}

info, err := m.Update(ctx, id, key, cmd.name)
if err != nil {
 return err
}

return cmd.WriteResult(licenseOutput([]types.LicenseManagerLicenseInfo{*info}))
}
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```

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package simulator

import (
 "context"
 "reflect"
 "testing"

 "github.com/vmware/govmomi"
 "github.com/vmware/govmomi/find"
 "github.com/vmware/govmomi/license"
)

func TestLicenseManagerVPX(t *testing.T) {
 ctx := context.Background()
 m := VPX()

 defer m.Remove()

 err := m.Create()
 if err != nil {
  t.Fatal(err)
 }

 s := m.Service.NewServer()
 defer s.Close()

 c, err := govmomi.NewClient(ctx, s.URL, true)
 if
 err != nil {
  t.Fatal(err)
 }

 lm := license.NewManager(c.Client)
 am, err := lm.AssignmentManager(ctx)
```

```
 if err != nil {
  t.Fatal(err)
 }

 la, err := am.QueryAssigned(ctx, "enoent")
 if err != nil {
  t.Fatal(err)
 }

 if len(la) != 0 {
  t.Errorf("unexpected license")
 }

 finder := find.NewFinder(c.Client, false)
 hosts, err := finder.HostSystemList(ctx, "/...")
 if err != nil {
  t.Fatal(err)
 }

 host := hosts[0].Reference().Value
 vcid := c.Client.ServiceContent.About.InstanceUuid

 for _, name := range []string{"", host, vcid} {
  la, err = am.QueryAssigned(ctx, name)
  if err != nil {
   t.Fatal(err)
  }

  if len(la) != 1 {
   t.Fatal("no licenses")
  }

  if !reflect.DeepEqual(la[0].AssignedLicense, EvalLicense) {
   t.Fatal("invalid license")
  }
 }
}

func TestLicenseManagerESX(t *testing.T) {
 ctx := context.Background()
 m := ESX()

 defer m.Remove()

 err := m.Create()
 if err != nil {
  t.Fatal(err)
 }
```

```
 s := m.Service.NewServer()
 defer s.Close()

 c, err := govmomi.NewClient(ctx,
 s.URL, true)
 if err != nil {
  t.Fatal(err)
 }

 lm := license.NewManager(c.Client)
 _, err = lm.AssignmentManager(ctx)
 if err == nil {
  t.Fatal("expected error")
 }

 la, err := lm.List(ctx)
 if err != nil {
  t.Fatal(err)
 }

 if len(la) != 1 {
  t.Fatal("no licenses")
 }

 if !reflect.DeepEqual(la[0], EvalLicense) {
  t.Fatal("invalid license")
 }
}

func TestAddRemoveLicense(t *testing.T) {
 ctx := context.Background()
 m := ESX()

 defer m.Remove()

 err := m.Create()
 if err != nil {
  t.Fatal(err)
 }

 s := m.Service.NewServer()
 defer s.Close()

 c, err := govmomi.NewClient(ctx, s.URL, true)
 if err != nil {
  t.Fatal(err)
 }
```

```
lm := license.NewManager(c.Client)
key := "00000-00000-00000-00000-11111"
labels := map[string]string{"key": "value"}

info, err := lm.Add(ctx, key, labels)
if err != nil {
 t.Fatal(err)
}

if info.LicenseKey != key {
 t.Fatalf("expect info.LicenseKey equal to %q; got %q", key, info.LicenseKey)
}

if len(info.Labels) !=
len(labels) {
 t.Fatalf("expect len(info.Labels) equal to %d; got %d",
  len(labels), len(info.Labels))
}

if info.Labels[0].Key != "key" || info.Labels[0].Value != "value" {
 t.Fatalf("expect label to be {key:value}; got {%s:%s}",
  info.Labels[0].Key, info.Labels[0].Value)
}

la, err := lm.List(ctx)
if err != nil {
 t.Fatal(err)
}

if len(la) != 2 {
 t.Fatal("no licenses")
}

if la[1].LicenseKey != key {
 t.Fatalf("expect info.LicenseKey equal to %q; got %q",
  key, la[1].LicenseKey)
}

if len(la[1].Labels) != len(labels) {
 t.Fatalf("expect len(info.Labels) equal to %d; got %d",
  len(labels), len(la[1].Labels))
}

if la[1].Labels[0].Key != "key" || la[1].Labels[0].Value != "value" {
 t.Fatalf("expect label to be {key:value}; got {%s:%s}",
  la[1].Labels[0].Key, la[1].Labels[0].Value)
}
```

```
 err = lm.Remove(ctx, key)
 if err != nil {
  t.Fatal(err)
 }

 la, err = lm.List(ctx)
 if err != nil {
  t.Fatal(err)
 }

 if len(la) != 1 {
  t.Fatal("no licenses")
 }
}
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*/

package license

import (
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 "flag"
 "fmt"

 "github.com/vmware/govmomi/govc/cli"
 "github.com/vmware/govmomi/govc/flags"
 "github.com/vmware/govmomi/license"
 "github.com/vmware/govmomi/vim25/types"
)

type add struct {
 *flags.ClientFlag
 *flags.OutputFlag
}
```

```
func init() {
 cli.Register("license.add", &add{})
}

func (cmd *add) Register(ctx context.Context, f *flag.FlagSet) {
 cmd.ClientFlag, ctx
 = flags.NewClientFlag(ctx)
 cmd.ClientFlag.Register(ctx, f)

 cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
 cmd.OutputFlag.Register(ctx, f)
}

func (cmd *add) Process(ctx context.Context) error {
 if err := cmd.ClientFlag.Process(ctx); err != nil {
  return err
 }
 if err := cmd.OutputFlag.Process(ctx); err != nil {
  return err
 }
 return nil
}

func (cmd *add) Usage() string {
 return "KEY..."
}

func (cmd *add) Run(ctx context.Context, f *flag.FlagSet) error {
 client, err := cmd.Client()
 if err != nil {
  return err
 }

 m := license.NewManager(client)

 // From the vSphere 5.5 documentation:
 //
 //     To specify the edition type and any optional functions, use
 //     updateLicense for ESX Server and addLicense follow by
 //     LicenseAssingmentManager.updateAssignedLicense for VirtualCenter.
 //
 var addFunc func(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo,
error)
 switch t := client.ServiceContent.About.ApiType; t {
 case "HostAgent":
  addFunc
```

```
 = m.Update
 case "VirtualCenter":
  addFunc = m.Add
 default:
  return fmt.Errorf("unsupported ApiType: %s", t)
 }

 result := make(licenseOutput, 0)
 for _, v := range f.Args() {
  license, err := addFunc(ctx, v, nil)
  if err != nil {
   return err
  }

  result = append(result, license)
 }

 return cmd.WriteResult(licenseOutput(result))
}
#!/usr/bin/env bats

load test_helper

# These tests should only run against a server running an evaluation license.
verify_evaluation() {
 if [ "$(govc license.ls -json | jq -r .[0].editionKey)" != "eval" ]; then
   skip "requires evaluation license"
 fi
}

get_key() {
 jq ".[] | select(.licenseKey == \"$1\")"
}

get_property() {
 jq -r ".properties[] | select(.key == \"$1\") | .value"
}

get_label() {
 govc license.ls -json | jq -r ".[] | select(.licenseKey == \"$1\") | .labels[] | select(.key == \"$2\") | .value"
}

get_nlabel() {
 govc license.ls -json | jq ".[] | select(.licenseKey == \"$1\") | .labels[].key" | wc -l
}

@test "license.add" {
 esx_env
```

```
 verify_evaluation

 run govc license.add -json 00000-00000-00000-00000-00001 00000-00000-00000-00000-00002
 assert_success

 # Expect to see an entry for both the first and the second key
 assert_equal "License is not valid for this product" "$(get_key 00000-00000-00000-00000-00001 <<<${output} |
get_property diagnostic)"
  assert_equal "License is not valid for this product" "$(get_key 00000-00000-00000-00000-00002 <<<${output} |
get_property diagnostic)"
}

@test "license.remove" {
 esx_env

 verify_evaluation

 run govc license.remove -json 00000-00000-00000-00000-00001
 assert_success
}

@test "license.ls" {
 vcsim_env

 verify_evaluation

 run govc license.ls -json
 assert_success

 # Expect the test instance to run in evaluation mode
 assert_equal "Evaluation Mode" "$(get_key 00000-00000-00000-00000-00000 <<<$output | jq -r ".name")"
}

@test "license.decode" {
 esx_env

 verify_evaluation

 key=00000-00000-00000-00000-00000
 assert_equal "eval" $(govc license.decode $key | grep $key | awk '{print $2}')
}

@test "license.label.set" {
 vcsim_env

 key=00000-00000-00000-00000-00000
```

```
 assert_equal 0 "$(get_nlabel $key)"
 assert_equal "" "$(get_label $key foo)"

 run govc license.label.set $key foo bar
 assert_success

 assert_equal 1 "$(get_nlabel $key)"
 assert_equal bar "$(get_label
 $key foo)"

 run govc license.label.set $key biz baz
 assert_success
 run govc license.label.set $key foo bar2
 assert_success

 assert_equal 2 "$(get_nlabel $key)"
 assert_equal bar2 "$(get_label $key foo)"

 run govc license.label.set $key foo ""
 assert_success

 assert_equal 1 "$(get_nlabel $key)"
 assert_equal "" "$(get_label $key foo)"
}
/*
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package simulator

import (
 "github.com/vmware/govmomi/vim25/methods"
 "github.com/vmware/govmomi/vim25/mo"
 "github.com/vmware/govmomi/vim25/soap"
 "github.com/vmware/govmomi/vim25/types"
)

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
 LicenseKey: "00000-00000-00000-00000-00000",
 EditionKey: "eval",
 Name:       "Evaluation Mode",
 Properties: []types.KeyAnyValue{
  {
   Key: "feature",
   Value: types.KeyValue{
    Key:   "serialuri:2",
    Value: "Remote virtual Serial Port Concentrator",
   },
  },
  {
   Key: "feature",
   Value: types.KeyValue{
    Key:   "dvs",
    Value: "vSphere Distributed Switch",
   },
  },
 },
}

type LicenseManager struct {
 mo.LicenseManager
}

func (m *LicenseManager) init(r *Registry) {
 m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}

 if
 r.IsVPX() {
  am := Map.Put(&LicenseAssignmentManager{}).Reference()
```

```
  m.LicenseAssignmentManager = &am
 }
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
 body := &methods.AddLicenseBody{
  Res: &types.AddLicenseResponse{},
 }

 for _, license := range m.Licenses {
  if license.LicenseKey == req.LicenseKey {
   body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
   return body
  }
 }

 m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
  LicenseKey: req.LicenseKey,
  Labels:     req.Labels,
 })

 body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

 return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
 body := &methods.RemoveLicenseBody{
  Res: &types.RemoveLicenseResponse{},
 }

 for i, license := range m.Licenses {
  if req.LicenseKey == license.LicenseKey {
   m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...)
   return body
  }
 }
 return
 body
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
 body := &methods.UpdateLicenseLabelBody{}

 for i := range m.Licenses {
  license := &m.Licenses[i]

  if req.LicenseKey != license.LicenseKey {
```

```
  continue
 }

 body.Res = new(types.UpdateLicenseLabelResponse)

 for j := range license.Labels {
  label := &license.Labels[j]

  if label.Key == req.LabelKey {
   if req.LabelValue == "" {
    license.Labels = append(license.Labels[:i], license.Labels[i+1:]...)
   } else {
    label.Value = req.LabelValue
   }
   return body
  }
 }

 license.Labels = append(license.Labels, types.KeyValue{
  Key:   req.LabelKey,
  Value: req.LabelValue,
 })

 return body
}

body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
return body
}

type LicenseAssignmentManager struct {
 mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault
 {
 body := &methods.QueryAssignedLicensesBody{
  Res: &types.QueryAssignedLicensesResponse{},
 }

 // EntityId can be a HostSystem or the vCenter InstanceUuid
 if req.EntityId != "" {
  if req.EntityId != Map.content().About.InstanceUuid {
   id := types.ManagedObjectReference{
    Type:  "HostSystem",
    Value: req.EntityId,
   }
```

```
  if Map.Get(id) == nil {
   return body
  }
 }
}

body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
 {
  EntityId:       req.EntityId,
  AssignedLicense: EvalLicense,
 },
}

return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
 info := EvalLicense

 info.LicenseKey = key
 info.Labels = labels

 return info
}
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*/

package license

import (
 "context"
 "flag"

 "github.com/vmware/govmomi/govc/cli"
 "github.com/vmware/govmomi/govc/flags"
```

```
 "github.com/vmware/govmomi/license"
)

type decode struct {
 *flags.ClientFlag
 *flags.OutputFlag

 feature string
}

func init() {
 cli.Register("license.decode", &decode{})
}

func (cmd *decode) Register(ctx context.Context, f *flag.FlagSet) {
 cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
 cmd.ClientFlag.Register(ctx,
 f)

 cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
 cmd.OutputFlag.Register(ctx, f)

 f.StringVar(&cmd.feature, "feature", "", featureUsage)
}

func (cmd *decode) Process(ctx context.Context) error {
 if err := cmd.ClientFlag.Process(ctx); err != nil {
  return err
 }
 if err := cmd.OutputFlag.Process(ctx); err != nil {
  return err
 }
 return nil
}

func (cmd *decode) Usage() string {
 return "KEY..."
}

func (cmd *decode) Run(ctx context.Context, f *flag.FlagSet) error {
 client, err := cmd.Client()
 if err != nil {
  return err
 }

 var result license.InfoList
 m := license.NewManager(client)
 for _, v := range f.Args() {
```

```
  license, err := m.Decode(ctx, v)
  if err != nil {
   return err
  }

  result = append(result, license)
 }

 if cmd.feature != "" {
  result = result.WithFeature(cmd.feature)
 }

 return cmd.WriteResult(licenseOutput(result))
}
/*
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*/

package license

import (
 "context"
 "strconv"
 "strings"

 "github.com/vmware/govmomi/object"
 "github.com/vmware/govmomi/vim25"
 "github.com/vmware/govmomi/vim25/methods"
 "github.com/vmware/govmomi/vim25/mo"
 "github.com/vmware/govmomi/vim25/types"
)

type Manager struct {
 object.Common
}
```

```
func NewManager(c *vim25.Client) *Manager {
 m := Manager{
  object.NewCommon(c, *c.ServiceContent.LicenseManager),
 }

 return
 &m
}

func mapToKeyValueSlice(m map[string]string) []types.KeyValue {
 var r []types.KeyValue
 for k, v := range m {
  r = append(r, types.KeyValue{Key: k, Value: v})
 }
 return r
}

func (m Manager) Add(ctx context.Context, key string, labels map[string]string)
(types.LicenseManagerLicenseInfo, error) {
 req := types.AddLicense{
  This:       m.Reference(),
  LicenseKey: key,
  Labels:     mapToKeyValueSlice(labels),
 }

 res, err := methods.AddLicense(ctx, m.Client(), &req)
 if err != nil {
  return types.LicenseManagerLicenseInfo{}, err
 }

 return res.Returnval, nil
}

func (m Manager) Decode(ctx context.Context, key string) (types.LicenseManagerLicenseInfo, error) {
 req := types.DecodeLicense{
  This:       m.Reference(),
  LicenseKey: key,
 }

 res, err := methods.DecodeLicense(ctx, m.Client(), &req)
 if err != nil {
  return types.LicenseManagerLicenseInfo{}, err
 }

 return res.Returnval, nil
}

func (m Manager) Remove(ctx context.Context, key string) error {
```

```
 req := types.RemoveLicense{
  This:
       m.Reference(),
  LicenseKey: key,
 }

 _, err := methods.RemoveLicense(ctx, m.Client(), &req)
 return err
}

func (m Manager) Update(ctx context.Context, key string, labels map[string]string)
(types.LicenseManagerLicenseInfo, error) {
 req := types.UpdateLicense{
  This:       m.Reference(),
  LicenseKey: key,
  Labels:     mapToKeyValueSlice(labels),
 }

 res, err := methods.UpdateLicense(ctx, m.Client(), &req)
 if err != nil {
  return types.LicenseManagerLicenseInfo{}, err
 }

 return res.Returnval, nil
}

func (m Manager) List(ctx context.Context) (InfoList, error) {
 var mlm mo.LicenseManager

 err := m.Properties(ctx, m.Reference(), []string{"licenses"}, &mlm)
 if err != nil {
  return nil, err
 }

 return InfoList(mlm.Licenses), nil
}

func (m Manager) AssignmentManager(ctx context.Context) (*AssignmentManager, error) {
 var mlm mo.LicenseManager

 err := m.Properties(ctx, m.Reference(), []string{"licenseAssignmentManager"}, &mlm)
 if err != nil
 {
  return nil, err
 }

 if mlm.LicenseAssignmentManager == nil {
  return nil, object.ErrNotSupported
```

```
 }

 am := AssignmentManager{
  object.NewCommon(m.Client(), *mlm.LicenseAssignmentManager),
 }

 return &am, nil
}

type licenseFeature struct {
 name  string
 level int
}

func parseLicenseFeature(feature string) *licenseFeature {
 lf := new(licenseFeature)

 f := strings.Split(feature, ":")

 lf.name = f[0]

 if len(f) > 1 {
  var err error
  lf.level, err = strconv.Atoi(f[1])
  if err != nil {
   lf.name = feature
  }
 }

 return lf
}

func HasFeature(license types.LicenseManagerLicenseInfo, key string) bool {
 feature := parseLicenseFeature(key)

 for _, p := range license.Properties {
  if p.Key != "feature" {
   continue
  }

  kv, ok := p.Value.(types.KeyValue)

  if !ok {
   continue
  }

  lf := parseLicenseFeature(kv.Key)
```

```
  if lf.name == feature.name && lf.level >= feature.level {
   return true
  }
 }

 return false
}

// InfoList provides helper methods for []types.LicenseManagerLicenseInfo
type
 InfoList []types.LicenseManagerLicenseInfo

func (l InfoList) WithFeature(key string) InfoList {
 var result InfoList

 for _, license := range l {
  if HasFeature(license, key) {
   result = append(result, license)
  }
 }

 return result
}
# People who can (and typically have) contributed to this repository.
#
# This script is generated by contributors.sh
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*/

package license

import (
 "context"
 "flag"
 "fmt"

 "github.com/vmware/govmomi/govc/cli"
 "github.com/vmware/govmomi/govc/flags"
 "github.com/vmware/govmomi/license"
)

type remove struct {
 *flags.ClientFlag
 *flags.OutputFlag
}

func init() {
 cli.Register("license.remove", &remove{})
}

func (cmd *remove) Register(ctx context.Context, f *flag.FlagSet) {
 cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
 cmd.ClientFlag.Register(ctx,
 f)
```

```
 cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
 cmd.OutputFlag.Register(ctx, f)
}

func (cmd *remove) Process(ctx context.Context) error {
 if err := cmd.ClientFlag.Process(ctx); err != nil {
  return err
 }
 if err := cmd.OutputFlag.Process(ctx); err != nil {
  return err
 }
 return nil
}

func (cmd *remove) Usage() string {
 return "KEY..."
}

func (cmd *remove) Run(ctx context.Context, f *flag.FlagSet) error {
 client, err := cmd.Client()
 if err != nil {
  return err
 }

 m := license.NewManager(client)
 for _, v := range f.Args() {
  err = m.Remove(ctx, v)
  if err != nil {
   return err
  }
 }

 list, err := m.List(ctx)
 if err != nil {
  return err
 }

 for _, v := range f.Args() {
  for _, l := range list {
   if v == l.LicenseKey {
    return fmt.Errorf("cannot remove license %q", v)
   }
  }
 }

 return nil
}
```

```
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import (
 "context"
 "flag"
 "fmt"
 "io"
 "os"
 "text/tabwriter"

 "github.com/vmware/govmomi/govc/cli"
 "github.com/vmware/govmomi/govc/flags"
 "github.com/vmware/govmomi/license"
 "github.com/vmware/govmomi/vim25/types"
)

type assigned struct {
 *flags.ClientFlag
 *flags.OutputFlag

 id string
}

func init() {
 cli.Register("license.assigned.ls", &assigned{})
}

func (cmd *assigned) Register(ctx
 context.Context, f *flag.FlagSet) {
 cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
 cmd.ClientFlag.Register(ctx, f)
```

```
 cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
 cmd.OutputFlag.Register(ctx, f)

 f.StringVar(&cmd.id, "id", "", "Entity ID")
}

func (cmd *assigned) Process(ctx context.Context) error {
 if err := cmd.ClientFlag.Process(ctx); err != nil {
  return err
 }
 if err := cmd.OutputFlag.Process(ctx); err != nil {
  return err
 }
 return nil
}

func (cmd *assigned) Run(ctx context.Context, f *flag.FlagSet) error {
 client, err := cmd.Client()
 if err != nil {
  return err
 }

 m, err := license.NewManager(client).AssignmentManager(ctx)
 if err != nil {
  return err
 }

 assigned, err := m.QueryAssigned(ctx, cmd.id)
 if err != nil {
  return err
 }

 return cmd.WriteResult(assignedOutput(assigned))
}

type assignedOutput []types.LicenseAssignmentManagerLicenseAssignment

func (res assignedOutput) Write(w io.Writer) error {
 tw := tabwriter.NewWriter(os.Stdout, 4, 0, 2, ' ',
 0)
 fmt.Fprintf(tw, "Id:\tScope:\tName:\tLicense:\n")
 for _, v := range res {
  fmt.Fprintf(tw, "%s\t", v.EntityId)
  fmt.Fprintf(tw, "%s\t", v.Scope)
  fmt.Fprintf(tw, "%s\t", v.EntityDisplayName)
  fmt.Fprintf(tw, "%s\t", v.AssignedLicense.LicenseKey)
  fmt.Fprintf(tw, "\n")
 }
```

```
 return tw.Flush()
}
```

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```
package license
```

```
import (
 "context"
 "flag"

 "github.com/vmware/govmomi/govc/cli"
 "github.com/vmware/govmomi/govc/flags"
 "github.com/vmware/govmomi/license"
 "github.com/vmware/govmomi/vim25/methods"
 "github.com/vmware/govmomi/vim25/types"
)

type label struct {
 *flags.ClientFlag
}

func init() {
 cli.Register("license.label.set", &label{})
}

func (cmd *label) Register(ctx context.Context, f *flag.FlagSet)
 {
 cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
 cmd.ClientFlag.Register(ctx, f)
}

func (cmd *label) Usage() string {
 return "LICENSE KEY VAL"
}

func (cmd *label) Description() string {
 return `Set license labels.

Examples:
 govc license.label.set 00000-00000-00000-00000-00000 team cnx # add/set label
 govc license.label.set 00000-00000-00000-00000-00000 team ""  # remove label
 govc license.ls -json | jq '.[] | select(.labels[].key == "team") | .licenseKey'`
}

func (cmd *label) Run(ctx context.Context, f *flag.FlagSet) error {
 client, err := cmd.Client()
 if err != nil {
  return err
 }

 m := license.NewManager(client)

 if f.NArg() != 3 {
  return flag.ErrHelp
```

```
}

req := types.UpdateLicenseLabel{
 This:       m.Reference(),
 LicenseKey: f.Arg(0),
 LabelKey:   f.Arg(1),
 LabelValue: f.Arg(2),
}

_, err = methods.UpdateLicenseLabel(ctx, m.Client(), &req)
return err
}
```

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*/

package license
```

```
import (
 "fmt"
 "io"
 "os"
 "text/tabwriter"

 "github.com/vmware/govmomi/vim25/types"
)

type licenseOutput []types.LicenseManagerLicenseInfo

func (res licenseOutput) Write(w io.Writer) error {
 tw := tabwriter.NewWriter(os.Stdout, 4, 0, 2, ' ', 0)
 fmt.Fprintf(tw, "Key:\tEdition:\tUsed:\tTotal:\n")
 for _, v := range res {
  fmt.Fprintf(tw, "%s\t", v.LicenseKey)
  fmt.Fprintf(tw, "%s\t",
 v.EditionKey)
  fmt.Fprintf(tw, "%d\t", v.Used)
  fmt.Fprintf(tw, "%d\t", v.Total)
  fmt.Fprintf(tw, "\n")
 }
 return tw.Flush()
}
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*/

package license

import (
 "context"

 "github.com/vmware/govmomi/object"
 "github.com/vmware/govmomi/vim25/methods"
```

```
 "github.com/vmware/govmomi/vim25/types"
)

type AssignmentManager struct {
 object.Common
}

func (m AssignmentManager) QueryAssigned(ctx context.Context, id string)
([]types.LicenseAssignmentManagerLicenseAssignment, error) {
 req := types.QueryAssignedLicenses{
  This:     m.Reference(),
  EntityId:
 id,
 }

 res, err := methods.QueryAssignedLicenses(ctx, m.Client(), &req)
 if err != nil {
  return nil, err
 }

 return res.Returnval, nil
}

func (m AssignmentManager) Remove(ctx context.Context, id string) error {
 req := types.RemoveAssignedLicense{
  This:     m.Reference(),
  EntityId: id,
 }

 _, err := methods.RemoveAssignedLicense(ctx, m.Client(), &req)

 return err
}

func (m AssignmentManager) Update(ctx context.Context, id string, key string, name string)
(*types.LicenseManagerLicenseInfo, error) {
 req := types.UpdateAssignedLicense{
  This:              m.Reference(),
  Entity:            id,
  LicenseKey:        key,
  EntityDisplayName: name,
 }

 res, err := methods.UpdateAssignedLicense(ctx, m.Client(), &req)
 if err != nil {
  return nil, err
 }
```

```
return &res.Returnval, nil
}
```

1.4000 sample-controller 0.26.1

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1.4001 sirupsen-logrus 1.9.3

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1.4002 x-time 0.5.0

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1.4003 rcrowley-gometrics 0.0.0-20201227073835-cf1acfcdf475

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1.4004 pq 1.10.9

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```
//go:build go1.10
// +build go1.10

package pq

import (
 "context"
 "database/sql/driver"
)

// NoticeHandler returns the notice handler on the given connection, if any. A
// runtime panic occurs if c is not a pq connection. This is rarely used
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
 return c.(*conn).noticeHandler
}
```

```
// SetNoticeHandler sets the given notice handler on the given connection. A
// runtime panic occurs if c is not a pq connection. A nil handler may be used
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and
// ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
 c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
//
 on it.
type NoticeHandlerConnector struct {
 driver.Connector
 noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
 c, err := n.Connector.Connect(ctx)
 if err == nil {
  SetNoticeHandler(c, n.noticeHandler)
 }
 return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  return c.noticeHandler
 }
 return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and
 setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
```

```
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  c.noticeHandler = handler
  return c
 }
 return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}
```

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1.4005 yaml 3.0.1

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```

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* /opt/cola/permits/1987313768_1714022225.9930418/0/groovy-yaml-3-0-1-sources-jar/org/apache/groovy/yaml/util/YamlConverter.java
* /opt/cola/permits/1987313768_1714022225.9930418/0/groovy-yaml-3-0-1-sources-jar/groovy/yaml/YamlBuilder.java
* /opt/cola/permits/1987313768_1714022225.9930418/0/groovy-yaml-3-0-1-sources-jar/groovy/yaml/YamlSlurper.java
* /opt/cola/permits/1987313768_1714022225.9930418/0/groovy-yaml-3-0-1-sources-jar/groovy/yaml/YamlRuntimeException.java

1.4006 uuid 1.4.0

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1.4007 websocket 1.5.0

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1.4008 sigs-k8s-io-yaml 1.3.0

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1.4009 sigs.k8s.io/json 0.0.0-20221116044647-bc3834ca7abd

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1.4010 log4j-over-slf4j 2.0.13

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1.4011 aspect-j 1.9.22

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1.4012 natsort 0.0.0-20181210072756-2cd4dd1e2dcb

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1.4013 run 1.1.0

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1.4029 go-multierror 1.1.1

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1.4037 golang-org-x-exp 0.0.0-20240416160154-fe59bbe5cc7f

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1.4042 typing-extensions 4.5.0

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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1.4044 github.com/hashicorp/go-envparse 0.1.0

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1.4045 github.com/prometheus-community/go-runit 0.1.0

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1.4046 perf-utils 0.7.0

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1.4048 bouncycastle-fips 1.0.2.5

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1.4050 spring-security-config 5.8.11

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1.4051 mockito 3.8.0

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1.4052 jsimonetti-rtnetlink 1.4.1

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1.4053 dennwc-btrfs 0.0.0-20240418142341-0167142bde7a

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1.4055 github.com/mdlayher/ethtool 0.1.0

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1.4056 masterminds-semver 3.2.1

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1.4058 make-fetch-happen 13.0.1

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1.4064 fs.realpath 1.0.0

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1.4068 es-errors 1.3.0

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1.4070 methods 1.1.2

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1.4077 glob 7.2.3

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1.4080 yallist 4.0.0

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validate-npm-package-license
==========

Give me a string and I'll tell you if it's a valid npm package license string.

```javascript
var valid = require('validate-npm-package-license');
```

SPDX license identifiers are valid license strings:

```javascript
```

```
var assert = require('assert');
var validSPDXExpression = {
 validForNewPackages: true,
 validForOldPackages: true,
 spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
```

The function will return a warning and suggestion for nearly-correct license identifiers:

```javascript
assert.deepEqual(
 valid('Apache 2.0'),
 {
   validForOldPackages: false,
   validForNewPackages: false,
   warnings: [
     'license should be ' +
     'a valid SPDX license expression (without "LicenseRef"), ' +
     '"UNLICENSED", or ' +
      '"SEE LICENSE IN <filename>"',
     'license is similar to the valid expression "Apache-2.0"'
   ]
 }
);
```

SPDX expressions are valid, too ...

```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
 valid('(GPL-3.0-only OR BSD-2-Clause)'),
 validSPDXExpression
);
```

... except if they contain `LicenseRef`:

```javascript
var warningAboutLicenseRef = {
 validForOldPackages: false,
 validForNewPackages: false,
 spdx: true,
```

```
 warnings: [
   'license should be ' +
   'a valid SPDX license expression (without "LicenseRef"), ' +
   '"UNLICENSED", or ' +
   '"SEE LICENSE IN <filename>"',
 ]
};

assert.deepEqual(
 valid('LicenseRef-Made-Up'),
 warningAboutLicenseRef
);

assert.deepEqual(
 valid('(MIT OR LicenseRef-Made-Up)'),
 warningAboutLicenseRef
);
```

If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```javascript
assert.deepEqual(
 valid('SEE
 LICENSE IN LICENSE.txt'),
 {
   validForNewPackages: true,
   validForOldPackages: true,
   inFile: 'LICENSE.txt'
 }
);

assert.deepEqual(
 valid('SEE LICENSE IN license.md'),
 {
   validForNewPackages: true,
   validForOldPackages: true,
   inFile: 'license.md'
 }
);
```

If there aren't any licensing terms, use `UNLICENSED`:

```javascript
var unlicensed = {
 validForNewPackages: true,
```

```
 validForOldPackages: true,
 unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);
```

1.4083 color-name 1.1.3

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1.4084 fast-json-stable-stringify 2.1.0

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1.4085 is-stream 2.0.1

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1.4086 media-typer 0.3.0

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1.4087 range-parser 1.2.1

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1.4088 retry 0.12.0

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1.4089 iconv-lite 0.4.24

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1.4090 ajv-keywords 3.5.2

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1.4091 strip-ansi 6.0.1

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1.4092 minizlib 2.1.2

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1.4093 proxy-addr 2.0.7

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1.4094 statuses 2.0.1

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1.4095 has-symbols 1.0.3

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1.4096 base64-js 1.5.1

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1.4098 graceful-fs 4.2.10

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1.4099 postcss-selector-parser 6.0.10

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1.4100 encoding 0.1.13

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1.4101 etag 1.8.1

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1.4102 rimraf 3.0.2

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1.4103 minipass-sized 1.0.3

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1.4104 common-ancestor-path 1.0.1

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1.4105 psl 1.9.0

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1.4106 finalhandler 1.2.0

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1.4144 supports-preserve-symlinks-flag 1.0.0

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1.4145 source-map-support 0.5.21

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1.4149 icss-utils 5.1.0

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1.4182 opentracing-go-stdlib 1.0.0

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1.4183 cast 1.3.1

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1.4186 import-local 3.1.0

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1.4187 fastest-levenshtein 1.0.16

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1.4190 cli-columns 4.0.0

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1.4191 github.com/jackc/pgx/v4 4.18.2

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* @(#)$Id: IslandSchemaReader.java,v 1.4 2001/11/01 00:11:45 kkawa Exp $
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1.4193 minipass-pipeline 1.2.4

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1.4194 promise-all-reject-late 1.0.1

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1.4195 servlet-api 3.1.0

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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

1.4197 glibc 2.36-9+deb12u7

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1.4198 go-auth-oauth2adapt 0.2.2

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```
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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.32.0
//  protoc        v4.25.2
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb
```

```
import (
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
```

```
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
```

```
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":           1,
  "WRITER":          2,
  "READER":          3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
```

```
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 if protoimpl.UnsafeEnabled {
  mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}
```

```
func (*Permission) ProtoMessage() {}

func (x *Permission)
 ProtoReflect() protoreflect.Message {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role
 != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
```

```
}

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
 0x19, 0x67, 0x6f,
 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
 0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
 0x0b, 0x67,
 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
 0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
 0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
 0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
```

```
 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
 0x64,
 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
 0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
 0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
 = []interface{}{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
```

```
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init()
 }
func file_google_ai_generativelanguage_v1beta_permission_proto_init() {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 if !protoimpl.UnsafeEnabled {
  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v interface{}, i int)
interface{} {
   switch v := v.(*Permission); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []interface{}{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
  GoTypes:           file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
  DependencyIndexes:
```

```
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
  EnumInfos:         file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
  MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
 }.Build()
 File_google_ai_generativelanguage_v1beta_permission_proto = out.File
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)
```

```
func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}
```

```
func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
```

```
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
```

```
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp

  // If you need to access the underlying RPC response,
  // you can do so by casting the `Response` as below.
  // Otherwise, remove this line. Only populated after
  // first call to Next(). Not safe for concurrent access.
  _ = it.Response.(*computepb.LicensesListResponse)
 }
}

func
 ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

```
func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
```

```
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
```

```
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
```

```
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy:
```

```
 []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  Insert: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  List: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  SetIamPolicy: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000
 * time.Millisecond),
  },
 }
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
```

```
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
```

```
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
 for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by
third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
 list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use
 only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
```

```
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
```

```
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{"x-goog-api-client", gax.XGoogHeader(kv...)}
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close();
 err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
```

```
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v",
 "project", url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if
```

```
 err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds
 = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
```

```
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return
err
 }

 return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
```

```
 params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params",
 fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "resource",
url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf,
 err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }
```

```
 return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery
 = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
```

```
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if
err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest,
```

```
opts ...gax.CallOption) *LicenseIterator {
it := &LicenseIterator{}
req = proto.Clone(req).(*computepb.ListLicensesRequest)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
 resp := &computepb.LicensesListResponse{}
 if pageToken != "" {
  req.PageToken = proto.String(pageToken)
 }
 if pageSize > math.MaxInt32 {
  req.MaxResults = proto.Uint32(math.MaxInt32)
 } else if pageSize != 0 {
  req.MaxResults = proto.Uint32(uint32(pageSize))
 }
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, "", err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.Filter != nil {
  params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
 }
 if req != nil && req.MaxResults != nil {
  params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
 }
 if
req != nil && req.OrderBy != nil {
  params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
 }
 if req != nil && req.PageToken != nil {
  params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
 }
 if req != nil && req.ReturnPartialSuccess != nil {
  params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := append(c.xGoogHeaders, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
```

```
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err
= googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
```

```
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud
 Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
```

```
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource
 is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
```

```
 headers := gax.BuildHeaders(ctx,
 hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return
 nil, e
 }
 return resp, nil
}
```

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1.4199 sqlx 1.4.0

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1.4200 nopt 7.2.1

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1.4201 golang 1.22.3

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1.4203 protobuf 1.34.1

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1.4204 x-text 0.15.0

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1.4205 x-net 0.25.0

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1.4206 jackson-databind 2.17.1

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Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

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1.4207 bouncy-castle 1.78.1

1.4207.1 Available under license :

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public DomainParameters(BigInteger p, BigInteger g, BigInteger q, BigInteger j,

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/**
* An implementation of RFC 7253 on The OCB
* Authenticated-Encryption Algorithm. For those still concerned about the original patents
* around this, please see:
*
* https://mailarchive.ietf.org/arch/msg/cfrg/qLTveWOdTJcLn4HP3ev-vrj05Vg/
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/**
  * Magic value for proprietary OpenSSH private key.
  **/

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jar/org/bouncycastle/crypto/util/OpenSSHPrivateKeyUtil.java
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```
/**
* SPHINCS-256 signer.
* <p>
* This implementation is heavily based on the reference implementation in SUPERCOP, the main difference being the digests used
* for message hashing and tree construction are now configurable (within limits...) and that the implementation produces
* detached signatures.
* </p>
* <p>
* The SPHINCS reference implementation is public domain, as per the statement in the second last paragraph of
* section 1 in https://eprint.iacr.org/2014/795.pdf
* </p>
*/
```

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```
/**
* The NTRU algorithm based on the round 3 submission of the NIST post-quantum cryptography. For the old NTRU, see
* {@link org.bouncycastle.pqc.legacy.crypto.ntru}.
*
* <p>
* This implementation is based on the C reference implementation submitted for the round 3 NIST PQC competition,
* released under CC0-1.0 license.
* </p>
*
* <p><a href="https://csrc.nist.gov/CSRC/media/Projects/post-quantum-cryptography/documents/round-3/submissions/NTRU-Round3.zip">NIST submission files</a></p>
* <p><a href="https://github.com/jschanck/ntru/blob/master/LICENSE">License of reference implementation</a></p>
*
* @see <a href="https://csrc.nist.gov/Projects/post-quantum-cryptography/round-3-submissions">NIST round 3 PQC submissions page</a>
* @see <a href="https://ntru.org/">NTRU website</a>
* @see <a href="https://ntru.org/f/ntru-20190330.pdf">NTRU specification</a>
*/
```

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* /opt/cola/permits/2004586170_1723850594.8115869/0/bcprov-jdk18on-1-78-1-sources-jar/org/bouncycastle/pqc/crypto/ntru/package-info.java

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```
/**
* Poly1305 message authentication code, designed by D. J. Bernstein.
* <p>
* Poly1305 computes a 128-bit (16 bytes) authenticator, using a 128 bit nonce and a 256 bit key
* consisting of a 128 bit key applied to an underlying cipher, and a 128 bit key (with 106
* effective key bits) used in the authenticator.
* <p>
* The polynomial calculation in this implementation is adapted from the public domain <a
* href="https://github.com/floodyberry/poly1305-donna">poly1305-donna-unrolled</a> C implementation
* by Andrew M (@floodyberry).
* @see Poly1305KeyGenerator
*/
```

Found in path(s):
* /opt/cola/permits/2004586170_1723850594.8115869/0/bcprov-jdk18on-1-78-1-sources-jar/org/bouncycastle/crypto/macs/Poly1305.java
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```
/**
* Contains the polynomial classes used in the NTRU round 3 algorithm.
*
* <p>
* This implementation is based on the C reference implementation submitted for the round 3 NIST PQC competition,
* released under CC0-1.0 license.
* </p>
*
* <p><a href="https://csrc.nist.gov/CSRC/media/Projects/post-quantum-cryptography/documents/round-3/submissions/NTRU-Round3.zip">NIST submission files</a></p>
* <p><a href="https://github.com/jschanck/ntru/blob/master/LICENSE">License of reference implementation</a></p>
*/
```

Found in path(s):
* /opt/cola/permits/2004586170_1723850594.8115869/0/bcprov-jdk18on-1-78-1-sources-jar/org/bouncycastle/pqc/math/ntru/package-info.java

1.4208 x-crypto 0.23.0

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1.4209 python 3.12.3

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands

as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see https://opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to

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Thanks to the many outside volunteers who have worked under Guido's
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1.4210 j2objc-annotations 3.0.0

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-->

Found in path(s):
* /opt/cola/permits/2005241706_1715222736.7890801/0/j2objc-annotations-3-0-0-jar/META-INF/maven/com.google.j2objc/j2objc-annotations/pom.xml

1.4211 jackson-dataformat-yaml 2.15.4

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1.4212 failureaccess 1.0.2

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* /opt/cola/permits/2005241237_1715223430.520224/0/failureaccess-1-0-2-sources-1-
jar/com/google/common/util/concurrent/internal/InternalFutureFailureAccess.java
* /opt/cola/permits/2005241237_1715223430.520224/0/failureaccess-1-0-2-sources-1-
jar/com/google/common/util/concurrent/internal/InternalFutures.java

1.4213 sparsebitset 1.3

1.4213.1 Available under license :

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1.4214 golang-org-x-exp 0.0.0-20240506185415-9bf2ced13842

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1.4215 gorm.io/gorm 1.25.10

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1.4216 minipass-fetch 3.0.5

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https://github.com/bitinn/node-fetch

1.4217 miekg-dns 1.1.59

1.4217.1 Available under license :

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1.4218 code-hex-go-generics-cache 1.5.1

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1.4219 github.com/sigstore/rekor 1.3.6

1.4219.1 Available under license :

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Pull Request Process

1. Create an [issue](https://github.com/sigstore/rekor/issues)
   outlining the fix or feature.
2. Fork the rekor repository to your own github account and clone it locally.

3. Hack on your changes.
4. Update the README.md with details of changes to any interface, this includes new environment variables, exposed ports, useful file locations, CLI parameters and new or changed configuration values.
5. Correctly format your commit message see [Commit Messages](#Commit Message Guidelines) below.
6. Ensure that CI passes, if it fails, fix the failures.
7. Every pull request requires a review from the [core rekor team](https://github.com/orgs/github.com/sigstore/teams/core-team) before merging.
8. If your pull request consists of more than one commit, please squash your commits as described in [Squash Commits](#Squash Commits)

Commit Message Guidelines

We follow the commit formatting recommendations found on [Chris Beams' How to Write a Git Commit Message article]((https://chris.beams.io/posts/git-commit/).

Well formed commit messages not only help reviewers understand the nature of the Pull Request, but also assists the release process where commit messages are used to generate release notes.

A good example of a commit message would be as follows:

```
Summarize changes in around 50 characters or less

More detailed explanatory text, if necessary. Wrap it to about 72
characters or so. In some contexts, the first line is treated as the
subject of the commit and the rest of the text as the body. The
blank line separating the summary from the body is critical (unless
you omit the body entirely); various tools like `log`, `shortlog`
and `rebase` can get confused if you run the two together.

Explain the problem that this commit is solving. Focus on why you
are making this
 change as opposed to how (the code explains that).
Are there side effects or other unintuitive consequences of this
change? Here's the place to explain them.

Further paragraphs come after blank lines.

- Bullet points are okay, too

- Typically a hyphen or asterisk is used for the bullet, preceded
  by a single space, with blank lines in between, but conventions
  vary here
```

If you use an issue tracker, put references to them at the bottom,
like this:

Resolves: #123
See also: #456, #789
```

Note the `Resolves #123` tag, this references the issue raised and allows us to
ensure issues are associated and closed when a pull request is merged.

Please refer to [the github help page on message types](https://help.github.com/articles/closing-issues-using-keywords/)
for a complete list of issue references.

## Squash Commits

Should your pull request consist of more than one commit (perhaps due to
a change being requested during the review cycle), please perform a git squash
once a reviewer
 has approved your pull request.

A squash can be performed as follows. Let's say you have the following commits:

```
initial commit
second commit
final commit
```

Run the command below with the number set to the total commits you wish to
squash (in our case 3 commits):

```
git rebase -i HEAD~3
```

You default text editor will then open up and you will see the following::

```
pick eb36612 initial commit
pick 9ac8968 second commit
pick a760569 final commit

# Rebase eb1429f..a760569 onto eb1429f (3 commands)
```

We want to rebase on top of our first commit, so we change the other two commits
to `squash`:

```
pick eb36612 initial commit
squash 9ac8968 second commit
squash a760569 final commit
```
```

After this, should you wish to update your commit message to better summarise
all of your pull request, run:

```
git commit --amend
```

You will then need to force push (assuming your initial commit(s) were posted
to github):

```
git push origin your-branch --force
```

Alternatively,
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1.4227 jackson-datatype-jsr310 2.17.1

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* /opt/cola/permits/2011373324_1715828382.065217/0/netty-transport-native-unix-common-4-1-109-final-sources-2-jar/io/netty/channel/unix/IntegerUnixChannelOption.java
* /opt/cola/permits/2011373324_1715828382.065217/0/netty-transport-native-unix-common-4-1-109-final-sources-2-jar/io/netty/channel/unix/RawUnixChannelOption.java

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* /opt/cola/permits/2011373324_1715828382.065217/0/netty-transport-native-unix-common-4-1-109-final-sources-2-jar/netty_unix_util.c
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* /opt/cola/permits/2011373324_1715828382.065217/0/netty-transport-native-unix-common-4-1-109-final-sources-2-jar/netty_unix_util.h
* /opt/cola/permits/2011373324_1715828382.065217/0/netty-transport-native-unix-common-4-1-109-final-sources-2-jar/io/netty/channel/unix/PeerCredentials.java
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* /opt/cola/permits/2011373324_1715828382.065217/0/netty-transport-native-unix-common-4-1-109-final-sources-2-jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java
* /opt/cola/permits/2011373324_1715828382.065217/0/netty-transport-native-unix-common-4-1-109-final-sources-2-jar/io/netty/channel/unix/LimitsStaticallyReferencedJniMethods.java
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* /opt/cola/permits/2011373324_1715828382.065217/0/netty-transport-native-unix-common-4-1-109-final-sources-2-jar/io/netty/channel/unix/FileDescriptor.java
*
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* /opt/cola/permits/2011373324_1715828382.065217/0/netty-transport-native-unix-common-4-1-109-final-sources-2-jar/netty_unix_filedescriptor.h
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* /opt/cola/permits/2011373324_1715828382.065217/0/netty-transport-native-unix-common-4-1-109-final-sources-2-jar/io/netty/channel/unix/Socket.java
* /opt/cola/permits/2011373324_1715828382.065217/0/netty-transport-native-unix-common-4-1-109-final-sources-2-jar/io/netty/channel/unix/DomainSocketChannelConfig.java
* /opt/cola/permits/2011373324_1715828382.065217/0/netty-transport-native-unix-common-4-1-109-final-sources-2-jar/netty_unix_filedescriptor.c
*
/opt/cola/permits/2011373324_1715828382.065217/0/netty-transport-native-unix-common-4-1-109-final-sources-2-jar/io/netty/channel/unix/DatagramSocketAddress.java
* /opt/cola/permits/2011373324_1715828382.065217/0/netty-transport-native-unix-common-4-1-109-final-sources-2-jar/io/netty/channel/unix/DomainSocketChannel.java
* /opt/cola/permits/2011373324_1715828382.065217/0/netty-transport-native-unix-common-4-1-109-final-sources-2-jar/io/netty/channel/unix/Errors.java
* /opt/cola/permits/2011373324_1715828382.065217/0/netty-transport-native-unix-common-4-1-109-final-sources-2-jar/netty_unix_errors.h
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* /opt/cola/permits/2011373324_1715828382.065217/0/netty-transport-native-unix-common-4-1-109-final-sources-2-jar/netty_unix_socket.c
* /opt/cola/permits/2011373324_1715828382.065217/0/netty-transport-native-unix-common-4-1-109-final-sources-2-jar/io/netty/channel/unix/DomainSocketReadMode.java
*
/opt/cola/permits/2011373324_1715828382.065217/0/netty-transport-native-unix-common-4-1-109-final-sources-2-jar/netty_unix_errors.c
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* /opt/cola/permits/2011373324_1715828382.065217/0/netty-transport-native-unix-common-4-1-109-final-sources-2-jar/netty_unix_jni.h
* /opt/cola/permits/2011373324_1715828382.065217/0/netty-transport-native-unix-common-4-1-109-final-sources-2-jar/io/netty/channel/unix/UnixChannelUtil.java

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* /opt/cola/permits/2011373324_1715828382.065217/0/netty-transport-native-unix-common-4-1-109-final-sources-2-jar/io/netty/channel/unix/UnixChannelOption.java
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* /opt/cola/permits/2011373324_1715828382.065217/0/netty-transport-native-unix-common-4-1-109-final-sources-2-jar/netty_unix.c
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* /opt/cola/permits/2011373324_1715828382.065217/0/netty-transport-native-unix-common-4-1-109-final-sources-2-jar/io/netty/channel/unix/DomainDatagramPacket.java
* /opt/cola/permits/2011373324_1715828382.065217/0/netty-transport-native-unix-common-4-1-109-final-sources-2-jar/io/netty/channel/unix/DomainDatagramChannelConfig.java
* /opt/cola/permits/2011373324_1715828382.065217/0/netty-transport-native-unix-common-4-1-109-final-sources-2-jar/io/netty/channel/unix/DomainDatagramSocketAddress.java
* /opt/cola/permits/2011373324_1715828382.065217/0/netty-transport-native-unix-common-4-1-109-final-sources-2-jar/io/netty/channel/unix/DomainDatagramChannel.java
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1.4229 spring-web-mvc 6.1.6

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jar/io/netty/handler/codec/DefaultHeaders.java
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* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/HeadersUtils.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/ProtocolDetectionState.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
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* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/AsciiHeadersEncoder.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/compression/Lz4Constants.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java
*
 /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/compression/Bzip2Rand.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/compression/Bzip2Decoder.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/compression/Bzip2Encoder.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/compression/Bzip2Constants.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/json/package-info.java
*

/opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/compression/FastLz.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/MessageAggregationException.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/compression/Bzip2BitReader.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/DecoderResultProvider.java
*
/opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/compression/LzfEncoder.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java
*
/opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/compression/Crc32.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/compression/LzfDecoder.java
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/**
* Enumeration of supported Base64 dialects.
* <p>
* The internal lookup tables in this class has been derived from
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert
 Harder's Public Domain
* Base64 Encoder/Decoder</a>.
*/
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* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/CodecOutputList.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/DateFormatter.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/string/LineEncoder.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/DatagramPacketDecoder.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/compression/CompressionUtil.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/DatagramPacketEncoder.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/compression/ByteBufChecksum.java

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* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/compression/JdkZlibDecoder.java

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* under the License.
*/
/*
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* https://creativecommons.org/licenses/publicdomain
*/
/**
```

* Utility class for {@link ByteBuf} that encodes and decodes to and from
* Base64 notation.
* <p>
 * The encoding and decoding algorithm in this class has been derived from
* Robert Harder's Public Domain
* Base64 Encoder/Decoder.
*/

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* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/compression/SnappyOptions.java
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* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/marshalling/DefaultUnmarshallerProvider.java
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* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/compression/DecompressionException.java
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* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/serialization/ReferenceMap.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java
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* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java
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* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-

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* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/compression/ZlibWrapper.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/serialization/ObjectDecoder.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/protobuf/package-info.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java
*
 /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/compression/ZlibEncoder.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/MessageToMessageDecoder.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/PrematureChannelClosureException.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/compression/package-info.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java
*
 /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/serialization/CachingClassResolver.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-

jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/serialization/ObjectEncoder.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/EncoderException.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/LineBasedFrameDecoder.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/xml/package-info.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java
*
 /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/bytes/package-info.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/marshalling/ChannelBufferByteInput.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/compression/Snappy.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/compression/JdkZlibEncoder.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/serialization/package-info.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java
* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/serialization/ClassResolver.java
*
 /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/ByteToMessageDecoder.java
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*/
/**
* A decoder that splits the received {@link ByteBuf}s dynamically by the

```
* value of the length field in the message.  It is particularly useful when you
* decode a binary message which has an integer header field that represents the
* length of the message body or the whole message.
*
 <p>
* {@link LengthFieldBasedFrameDecoder} has many configuration parameters so
* that it can decode any message with a length field, which is often seen in
* proprietary client-server protocols. Here are some example that will give
* you the basic idea on which option does what.
*
* <h3>2 bytes length field at offset 0, do not strip header</h3>
*
* The value of the length field in this example is <tt>12 (0x0C)</tt> which
* represents the length of "HELLO, WORLD".  By default, the decoder assumes
* that the length field represents the number of the bytes that follows the
* length field.  Therefore, it can be decoded with the simplistic parameter
* combination.
* <pre>
* <b>lengthFieldOffset</b>   = <b>0</b>
* <b>lengthFieldLength</b>   = <b>2</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0 (= do not strip header)
*
* BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content
 |----->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 0, strip header</h3>
*
* Because we can get the length of the content by calling
* {@link ByteBuf#readableBytes()}, you might want to strip the length
* field by specifying <tt>initialBytesToStrip</tt>.  In this example, we
* specified <tt>2</tt>, that is same with the length of the length field, to
* strip the first two bytes.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* lengthAdjustment    = 0
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
*
* BEFORE DECODE (14 bytes)         AFTER DECODE (12 bytes)
* +--------+----------------+      +----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
```

```
* +--------+----------------+      +----------------+
 * </pre>
*
* <h3>2 bytes length field at offset 0, do not strip header, the length field
*     represents the length of the whole message</h3>
*
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples.  However, in some protocols, the
* length field represents the length of the whole message, including the
* message header.  In such a case, we specify a non-zero
* <tt>lengthAdjustment</tt>.  Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
* as <tt>lengthAdjustment</tt> for compensation.
* <pre>
* lengthFieldOffset   =  0
* lengthFieldLength   =  2
* <b>lengthAdjustment</b>    = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip =  0
*
* BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual
 Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
*
* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>
*
* The following message is a simple variation of the first example.  An extra
* header value is prepended to the message.  <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* <b>lengthFieldOffset</b>   = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b>   = <b>3</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)                    AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* |  0xCAFE  | 0x00000C | "HELLO, WORLD" |
 |  0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
*
* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
```

```
*
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body.  You have to specify a
* positive <tt>lengthAdjustment</tt> so that the decoder counts the extra
* header into the frame length calculation.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 3
* <b>lengthAdjustment</b>    = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)                    AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* |  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
* | 0x00000C |  0xCAFE  | "HELLO, WORLD" |      | 0x00000C |  0xCAFE  | "HELLO,
 WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
*     strip the first header field and the length field</h3>
*
* This is a combination of all the examples above.  There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
* header affects the <tt>lengthAdjustment</tt>.  We also specified a non-zero
* <tt>initialBytesToStrip</tt> to strip the length field and the prepended
* header from the frame.  If you don't want to strip the prepended header, you
* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.
* <pre>
* lengthFieldOffset   = 1 (= the length of HDR1)
* lengthFieldLength   = 2
* <b>lengthAdjustment</b>    = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 +
 LEN)
*
* BEFORE DECODE (16 bytes)                    AFTER DECODE (13 bytes)
* +------+--------+------+----------------+      +------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +------+--------+------+----------------+      +------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
*     strip the first header field and the length field, the length field
*     represents the length of the whole message</h3>
*
* Let's give another twist to the previous example.  The only difference from
```

```
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
* Please note that we don't need to take the length of HDR2 into account
* because
 the length field already includes the whole header length.
* <pre>
* lengthFieldOffset   =  1
* lengthFieldLength   =  2
* <b>lengthAdjustment</b>    = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b> 3</b>
*
* BEFORE DECODE (16 bytes)                    AFTER DECODE (13 bytes)
* +------+--------+------+----------------+      +------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +------+--------+------+----------------+      +------+----------------+
* </pre>
* @see LengthFieldPrepender
*/
```

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* /opt/cola/permits/2011373204_1715828658.8367717/0/netty-codec-4-1-109-final-sources-2-jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java
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1.4231 jackson-annotations 2.17.1

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* /opt/cola/permits/2011373416_1715828618.7484632/0/spring-aop-6-1-6-sources-1-jar/org/springframework/aop/aspectj/AspectJAdviceParameterNameDiscoverer.java
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* /opt/cola/permits/2011373416_1715828618.7484632/0/spring-aop-6-1-6-sources-1-jar/org/springframework/aop/framework/InterceptorAndDynamicMethodMatcher.java
* /opt/cola/permits/2011373416_1715828618.7484632/0/spring-aop-6-1-6-sources-1-jar/org/springframework/aop/aspectj/TypePatternClassFilter.java
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* /opt/cola/permits/2011373416_1715828618.7484632/0/spring-aop-6-1-6-sources-1-jar/org/springframework/aop/support/RootClassFilter.java
* /opt/cola/permits/2011373416_1715828618.7484632/0/spring-aop-6-1-6-sources-1-jar/org/springframework/aop/support/annotation/AnnotationMethodMatcher.java
* /opt/cola/permits/2011373416_1715828618.7484632/0/spring-aop-6-1-6-sources-1-jar/org/springframework/aop/Advisor.java
* /opt/cola/permits/2011373416_1715828618.7484632/0/spring-aop-6-1-6-sources-1-jar/org/springframework/aop/ClassFilter.java
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* /opt/cola/permits/2011373416_1715828618.7484632/0/spring-aop-6-1-6-sources-1-jar/org/springframework/aop/framework/AopProxy.java

* /opt/cola/permits/2011373416_1715828618.7484632/0/spring-aop-6-1-6-sources-1-jar/org/springframework/aop/target/dynamic/BeanFactoryRefreshableTargetSource.java
* /opt/cola/permits/2011373416_1715828618.7484632/0/spring-aop-6-1-6-sources-1-jar/org/springframework/aop/aspectj/RuntimeTestWalker.java
*
 /opt/cola/permits/2011373416_1715828618.7484632/0/spring-aop-6-1-6-sources-1-jar/org/springframework/aop/config/AbstractInterceptorDrivenBeanDefinitionDecorator.java
* /opt/cola/permits/2011373416_1715828618.7484632/0/spring-aop-6-1-6-sources-1-jar/org/springframework/aop/framework/adapter/AdvisorAdapterRegistrationManager.java
* /opt/cola/permits/2011373416_1715828618.7484632/0/spring-aop-6-1-6-sources-1-jar/org/springframework/aop/aspectj/autoproxy/AspectJAwareAdvisorAutoProxyCreator.java
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jar/org/springframework/aop/interceptor/PerformanceMonitorInterceptor.java
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* /opt/cola/permits/2011373393_1715828637.2766938/0/netty-codec-dns-4-1-109-final-sources-1-jar/io/netty/handler/codec/dns/DnsPtrRecord.java
*

/opt/cola/permits/2011373393_1715828637.2766938/0/netty-codec-dns-4-1-109-final-sources-1-jar/io/netty/handler/codec/dns/DefaultDnsPtrRecord.java
* /opt/cola/permits/2011373393_1715828637.2766938/0/netty-codec-dns-4-1-109-final-sources-1-jar/io/netty/handler/codec/dns/DnsOptEcsRecord.java
* /opt/cola/permits/2011373393_1715828637.2766938/0/netty-codec-dns-4-1-109-final-sources-1-jar/io/netty/handler/codec/dns/DefaultDnsOptEcsRecord.java
* /opt/cola/permits/2011373393_1715828637.2766938/0/netty-codec-dns-4-1-109-final-sources-1-jar/io/netty/handler/codec/dns/AbstractDnsOptPseudoRrRecord.java
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* /opt/cola/permits/2011373393_1715828637.2766938/0/netty-codec-dns-4-1-109-final-sources-1-jar/io/netty/handler/codec/dns/TcpDnsResponseEncoder.java
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* /opt/cola/permits/2011373393_1715828637.2766938/0/netty-codec-dns-4-1-109-final-sources-1-jar/io/netty/handler/codec/dns/DnsSection.java
* /opt/cola/permits/2011373393_1715828637.2766938/0/netty-codec-dns-4-1-109-final-sources-1-jar/io/netty/handler/codec/dns/AbstractDnsRecord.java
* /opt/cola/permits/2011373393_1715828637.2766938/0/netty-codec-dns-4-1-109-final-sources-1-jar/io/netty/handler/codec/dns/DnsRecordType.java
* /opt/cola/permits/2011373393_1715828637.2766938/0/netty-codec-dns-4-1-109-final-sources-1-jar/io/netty/handler/codec/dns/DefaultDnsQuery.java
* /opt/cola/permits/2011373393_1715828637.2766938/0/netty-codec-dns-4-1-109-final-sources-1-jar/io/netty/handler/codec/dns/DnsRecordEncoder.java
* /opt/cola/permits/2011373393_1715828637.2766938/0/netty-codec-dns-4-1-109-final-sources-1-jar/io/netty/handler/codec/dns/DefaultDnsQuestion.java
* /opt/cola/permits/2011373393_1715828637.2766938/0/netty-codec-dns-4-1-109-final-sources-1-jar/io/netty/handler/codec/dns/DatagramDnsResponseEncoder.java
* /opt/cola/permits/2011373393_1715828637.2766938/0/netty-codec-dns-4-1-109-final-sources-1-jar/io/netty/handler/codec/dns/DefaultDnsResponse.java
* /opt/cola/permits/2011373393_1715828637.2766938/0/netty-codec-dns-4-1-109-final-sources-1-jar/io/netty/handler/codec/dns/DnsMessageUtil.java
* /opt/cola/permits/2011373393_1715828637.2766938/0/netty-codec-dns-4-1-109-final-sources-1-jar/io/netty/handler/codec/dns/AbstractDnsMessage.java
* /opt/cola/permits/2011373393_1715828637.2766938/0/netty-codec-dns-4-1-109-final-sources-1-jar/io/netty/handler/codec/dns/DatagramDnsQueryEncoder.java
* /opt/cola/permits/2011373393_1715828637.2766938/0/netty-codec-dns-4-1-109-final-sources-1-jar/io/netty/handler/codec/dns/DatagramDnsResponseDecoder.java
* /opt/cola/permits/2011373393_1715828637.2766938/0/netty-codec-dns-4-1-109-final-sources-1-jar/io/netty/handler/codec/dns/DatagramDnsQuery.java
* /opt/cola/permits/2011373393_1715828637.2766938/0/netty-codec-dns-4-1-109-final-sources-1-jar/io/netty/handler/codec/dns/DnsRecordDecoder.java
* /opt/cola/permits/2011373393_1715828637.2766938/0/netty-codec-dns-4-1-109-final-sources-1-jar/io/netty/handler/codec/dns/DnsResponseCode.java
* /opt/cola/permits/2011373393_1715828637.2766938/0/netty-codec-dns-4-1-109-final-sources-1-jar/io/netty/handler/codec/dns/DefaultDnsRecordDecoder.java
* /opt/cola/permits/2011373393_1715828637.2766938/0/netty-codec-dns-4-1-109-final-sources-1-jar/io/netty/handler/codec/dns/DatagramDnsResponse.java
* /opt/cola/permits/2011373393_1715828637.2766938/0/netty-codec-dns-4-1-109-final-sources-1-jar/io/netty/handler/codec/dns/DnsQuery.java
* /opt/cola/permits/2011373393_1715828637.2766938/0/netty-codec-dns-4-1-109-final-sources-1-jar/io/netty/handler/codec/dns/DatagramDnsQueryDecoder.java
* /opt/cola/permits/2011373393_1715828637.2766938/0/netty-codec-dns-4-1-109-final-sources-1-jar/io/netty/handler/codec/dns/package-info.java
* /opt/cola/permits/2011373393_1715828637.2766938/0/netty-codec-dns-4-1-109-final-sources-1-

jar/io/netty/handler/codec/dns/DnsQuestion.java
* /opt/cola/permits/2011373393_1715828637.2766938/0/netty-codec-dns-4-1-109-final-sources-1-jar/io/netty/handler/codec/dns/DnsOpCode.java
*
/opt/cola/permits/2011373393_1715828637.2766938/0/netty-codec-dns-4-1-109-final-sources-1-jar/io/netty/handler/codec/dns/DnsRawRecord.java
* /opt/cola/permits/2011373393_1715828637.2766938/0/netty-codec-dns-4-1-109-final-sources-1-jar/io/netty/handler/codec/dns/DnsResponse.java
* /opt/cola/permits/2011373393_1715828637.2766938/0/netty-codec-dns-4-1-109-final-sources-1-jar/io/netty/handler/codec/dns/DnsRecord.java
* /opt/cola/permits/2011373393_1715828637.2766938/0/netty-codec-dns-4-1-109-final-sources-1-jar/io/netty/handler/codec/dns/DnsMessage.java
* /opt/cola/permits/2011373393_1715828637.2766938/0/netty-codec-dns-4-1-109-final-sources-1-jar/io/netty/handler/codec/dns/DefaultDnsRecordEncoder.java

1.4234 spring-web 6.1.6

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* /opt/cola/permits/2011373414_1715828933.3099399/0/netty-codec-http2-4-1-109-final-sources-jar/io/netty/handler/codec/http2/CleartextHttp2ServerUpgradeHandler.java
* /opt/cola/permits/2011373414_1715828933.3099399/0/netty-codec-http2-4-1-109-final-sources-jar/io/netty/handler/codec/http2/Http2StreamChannelBootstrap.java
* /opt/cola/permits/2011373414_1715828933.3099399/0/netty-codec-http2-4-1-109-final-sources-jar/io/netty/handler/codec/http2/Http2StreamChannel.java
* /opt/cola/permits/2011373414_1715828933.3099399/0/netty-codec-http2-4-1-109-final-sources-jar/io/netty/handler/codec/http2/Http2MultiplexCodecBuilder.java
* /opt/cola/permits/2011373414_1715828933.3099399/0/netty-codec-http2-4-1-109-final-sources-jar/io/netty/handler/codec/http2/Http2UnknownFrame.java
* /opt/cola/permits/2011373414_1715828933.3099399/0/netty-codec-http2-4-1-109-final-sources-jar/io/netty/handler/codec/http2/Http2StreamChannelId.java
* /opt/cola/permits/2011373414_1715828933.3099399/0/netty-codec-http2-4-1-109-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2UnknownFrame.java
* /opt/cola/permits/2011373414_1715828933.3099399/0/netty-codec-http2-4-1-109-final-sources-jar/io/netty/handler/codec/http2/Http2FrameStreamEvent.java

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* /opt/cola/permits/2011373414_1715828933.3099399/0/netty-codec-http2-4-1-109-final-sources-jar/io/netty/handler/codec/http2/CharSequenceMap.java
* /opt/cola/permits/2011373414_1715828933.3099399/0/netty-codec-http2-4-1-109-final-sources-jar/io/netty/handler/codec/http2/Http2ConnectionHandlerBuilder.java
* /opt/cola/permits/2011373414_1715828933.3099399/0/netty-codec-http2-4-1-109-final-sources-jar/io/netty/handler/codec/http2/AbstractHttp2ConnectionHandlerBuilder.java

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* /opt/cola/permits/2011373414_1715828933.3099399/0/netty-codec-http2-4-1-109-final-sources-jar/io/netty/handler/codec/http2/DecoratingHttp2ConnectionEncoder.java
* /opt/cola/permits/2011373414_1715828933.3099399/0/netty-codec-http2-4-1-109-final-sources-jar/io/netty/handler/codec/http2/Http2StreamVisitor.java
* /opt/cola/permits/2011373414_1715828933.3099399/0/netty-codec-http2-4-1-109-final-sources-jar/io/netty/handler/codec/http2/UniformStreamByteDistributor.java
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* /opt/cola/permits/2011373414_1715828933.3099399/0/netty-codec-http2-4-1-109-final-sources-jar/io/netty/handler/codec/http2/StreamBufferingEncoder.java
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* /opt/cola/permits/2011373414_1715828933.3099399/0/netty-codec-http2-4-1-109-final-sources-jar/io/netty/handler/codec/http2/StreamByteDistributor.java
* /opt/cola/permits/2011373414_1715828933.3099399/0/netty-codec-http2-4-1-109-final-sources-jar/io/netty/handler/codec/http2/InboundHttp2ToHttpAdapterBuilder.java
* /opt/cola/permits/2011373414_1715828933.3099399/0/netty-codec-http2-4-1-109-final-sources-jar/io/netty/handler/codec/http2/WeightedFairQueueByteDistributor.java
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 /opt/cola/permits/2011373414_1715828933.3099399/0/netty-codec-http2-4-1-109-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2PriorityFrame.java
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* /opt/cola/permits/2011373414_1715828933.3099399/0/netty-codec-http2-4-1-109-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2SettingsAckFrame.java
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// https://tools.ietf.org/html/rfc7540#section-8.1.2.2 makes a special exception for TE

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* /opt/cola/permits/2011373414_1715828933.3099399/0/netty-codec-http2-4-1-109-final-sources-jar/io/netty/handler/codec/http2/Http2ServerUpgradeCodec.java
* /opt/cola/permits/2011373414_1715828933.3099399/0/netty-codec-http2-4-1-109-final-sources-jar/io/netty/handler/codec/http2/Http2Error.java
*
/opt/cola/permits/2011373414_1715828933.3099399/0/netty-codec-http2-4-1-109-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2FrameReader.java
* /opt/cola/permits/2011373414_1715828933.3099399/0/netty-codec-http2-4-1-109-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2HeadersDecoder.java
* /opt/cola/permits/2011373414_1715828933.3099399/0/netty-codec-http2-4-1-109-final-sources-jar/io/netty/handler/codec/http2/Http2ConnectionEncoder.java
* /opt/cola/permits/2011373414_1715828933.3099399/0/netty-codec-http2-4-1-109-final-sources-jar/io/netty/handler/codec/http2/Http2NoMoreStreamIdsException.java
* /opt/cola/permits/2011373414_1715828933.3099399/0/netty-codec-http2-4-1-109-final-sources-jar/io/netty/handler/codec/http2/InboundHttp2ToHttpAdapter.java
* /opt/cola/permits/2011373414_1715828933.3099399/0/netty-codec-http2-4-1-109-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2FrameWriter.java
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/opt/cola/permits/2011373414_1715828933.3099399/0/netty-codec-http2-4-1-109-final-sources-jar/io/netty/handler/codec/http2/Http2RemoteFlowController.java
* /opt/cola/permits/2011373414_1715828933.3099399/0/netty-codec-http2-4-1-109-final-sources-jar/io/netty/handler/codec/http2/Http2ConnectionHandler.java
* /opt/cola/permits/2011373414_1715828933.3099399/0/netty-codec-http2-4-1-109-final-sources-jar/io/netty/handler/codec/http2/Http2CodecUtil.java

* /opt/cola/permits/2011373414_1715828933.3099399/0/netty-codec-http2-4-1-109-final-sources-jar/io/netty/handler/codec/http2/Http2EventAdapter.java
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*
 /opt/cola/permits/2011373414_1715828933.3099399/0/netty-codec-http2-4-1-109-final-sources-jar/io/netty/handler/codec/http2/Http2LifecycleManager.java
* /opt/cola/permits/2011373414_1715828933.3099399/0/netty-codec-http2-4-1-109-final-sources-jar/io/netty/handler/codec/http2/Http2Settings.java
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*
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* /opt/cola/permits/2011373414_1715828933.3099399/0/netty-codec-http2-4-1-109-final-sources-jar/io/netty/handler/codec/http2/Http2SettingsReceivedConsumer.java
* /opt/cola/permits/2011373414_1715828933.3099399/0/netty-codec-http2-4-1-109-final-sources-jar/io/netty/handler/codec/http2/Http2EmptyDataFrameConnectionDecoder.java
* /opt/cola/permits/2011373414_1715828933.3099399/0/netty-codec-http2-4-1-109-final-sources-jar/io/netty/handler/codec/http2/Http2ControlFrameLimitEncoder.java

1.4236 netty-transport-classes-epoll 4.1.109.Final

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* /opt/cola/permits/2011373239_1715828295.5374272/0/netty-transport-classes-epoll-4-1-109-final-sources-1-jar/io/netty/channel/epoll/EpollChannelOption.java
* /opt/cola/permits/2011373239_1715828295.5374272/0/netty-transport-classes-epoll-4-1-109-final-sources-1-jar/io/netty/channel/epoll/Epoll.java
* /opt/cola/permits/2011373239_1715828295.5374272/0/netty-transport-classes-epoll-4-1-109-final-sources-1-jar/io/netty/channel/epoll/EpollEventLoop.java
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* /opt/cola/permits/2011373239_1715828295.5374272/0/netty-transport-classes-epoll-4-1-109-final-sources-1-jar/io/netty/channel/epoll/EpollSocketChannel.java
* /opt/cola/permits/2011373239_1715828295.5374272/0/netty-transport-classes-epoll-4-1-109-final-sources-1-jar/io/netty/channel/epoll/EpollServerSocketChannel.java
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*/
/**
    * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
    * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
    * Allowing them being read would mean anyone with access to the channel could get them.
```

```
  */
/**
   * Set the {@code TCP_QUICKACK} option on the socket.
   * See <a href="https://linux.die.net//man/7/tcp">TCP_QUICKACK</a>
   * for more details.
   */
```

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* /opt/cola/permits/2011373239_1715828295.5374272/0/netty-transport-classes-epoll-4-1-109-final-sources-1-jar/io/netty/channel/epoll/SegmentedDatagramPacket.java
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* /opt/cola/permits/2011373239_1715828295.5374272/0/netty-transport-classes-epoll-4-1-109-final-sources-1-jar/io/netty/channel/epoll/NativeStaticallyReferencedJniMethods.java
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/**
 * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
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* /opt/cola/permits/2011373239_1715828295.5374272/0/netty-transport-classes-epoll-4-1-109-final-sources-1-jar/io/netty/channel/epoll/EpollRecvByteAllocatorHandle.java
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1.4237 spring-expression 6.1.6

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* /opt/cola/permits/2011373589_1715829093.2639968/0/spring-expression-6-1-6-sources-1-jar/org/springframework/expression/spel/ast/OpInc.java
* /opt/cola/permits/2011373589_1715829093.2639968/0/spring-expression-6-1-6-sources-1-jar/org/springframework/expression/spel/ast/Selection.java
* /opt/cola/permits/2011373589_1715829093.2639968/0/spring-expression-6-1-6-sources-1-jar/org/springframework/expression/spel/ast/Projection.java
* /opt/cola/permits/2011373589_1715829093.2639968/0/spring-expression-6-1-6-sources-1-jar/org/springframework/expression/spel/ast/Indexer.java
* /opt/cola/permits/2011373589_1715829093.2639968/0/spring-expression-6-1-6-sources-1-jar/org/springframework/expression/spel/ast/SpelNodeImpl.java
* /opt/cola/permits/2011373589_1715829093.2639968/0/spring-expression-6-1-6-sources-1-jar/org/springframework/expression/spel/ast/ConstructorReference.java
* /opt/cola/permits/2011373589_1715829093.2639968/0/spring-expression-6-1-6-sources-1-jar/org/springframework/expression/spel/ast/TypeReference.java
* /opt/cola/permits/2011373589_1715829093.2639968/0/spring-expression-6-1-6-sources-1-jar/org/springframework/expression/spel/ast/InlineList.java

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/opt/cola/permits/2011373589_1715829093.2639968/0/spring-expression-6-1-6-sources-1-jar/org/springframework/expression/BeanResolver.java
* /opt/cola/permits/2011373589_1715829093.2639968/0/spring-expression-6-1-6-sources-1-jar/org/springframework/expression/MethodResolver.java
* /opt/cola/permits/2011373589_1715829093.2639968/0/spring-expression-6-1-6-sources-1-jar/org/springframework/expression/spel/ast/OpDec.java
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* /opt/cola/permits/2011373589_1715829093.2639968/0/spring-expression-6-1-6-sources-1-jar/org/springframework/expression/Expression.java
* /opt/cola/permits/2011373589_1715829093.2639968/0/spring-expression-6-1-6-sources-1-jar/org/springframework/expression/ConstructorResolver.java
* /opt/cola/permits/2011373589_1715829093.2639968/0/spring-expression-6-1-6-sources-1-jar/org/springframework/expression/common/CompositeStringExpression.java
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/opt/cola/permits/2011373589_1715829093.2639968/0/spring-expression-6-1-6-sources-1-jar/org/springframework/expression/MethodExecutor.java
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* /opt/cola/permits/2011373589_1715829093.2639968/0/spring-expression-6-1-6-sources-1-jar/org/springframework/expression/common/LiteralExpression.java
* /opt/cola/permits/2011373589_1715829093.2639968/0/spring-expression-6-1-6-sources-1-jar/org/springframework/expression/spel/support/DataBindingMethodResolver.java
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* /opt/cola/permits/2011373589_1715829093.2639968/0/spring-expression-6-1-6-sources-1-jar/org/springframework/expression/spel/ast/OperatorBetween.java
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/opt/cola/permits/2011373589_1715829093.2639968/0/spring-expression-6-1-6-sources-1-jar/org/springframework/expression/common/TemplateAwareExpressionParser.java
* /opt/cola/permits/2011373589_1715829093.2639968/0/spring-expression-6-1-6-sources-1-jar/org/springframework/expression/spel/SpelParserConfiguration.java

* /opt/cola/permits/2011373589_1715829093.2639968/0/spring-expression-6-1-6-sources-1-jar/org/springframework/expression/spel/ast/PropertyOrFieldReference.java
* /opt/cola/permits/2011373589_1715829093.2639968/0/spring-expression-6-1-6-sources-1-jar/org/springframework/expression/spel/support/SimpleEvaluationContext.java
* /opt/cola/permits/2011373589_1715829093.2639968/0/spring-expression-6-1-6-sources-1-jar/org/springframework/expression/spel/ast/MethodReference.java
* /opt/cola/permits/2011373589_1715829093.2639968/0/spring-expression-6-1-6-sources-1-jar/org/springframework/expression/spel/support/ReflectiveConstructorResolver.java
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 /opt/cola/permits/2011373589_1715829093.2639968/0/spring-expression-6-1-6-sources-1-jar/org/springframework/expression/spel/support/ReflectiveMethodExecutor.java
* /opt/cola/permits/2011373589_1715829093.2639968/0/spring-expression-6-1-6-sources-1-jar/org/springframework/expression/spel/SpelMessage.java
* /opt/cola/permits/2011373589_1715829093.2639968/0/spring-expression-6-1-6-sources-1-jar/org/springframework/expression/spel/ast/CompoundExpression.java
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* /opt/cola/permits/2011373589_1715829093.2639968/0/spring-expression-6-1-6-sources-1-jar/org/springframework/expression/TypedValue.java
*
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* /opt/cola/permits/2011373589_1715829093.2639968/0/spring-expression-6-1-6-sources-1-jar/org/springframework/expression/spel/ast/TypeCode.java
* /opt/cola/permits/2011373589_1715829093.2639968/0/spring-expression-6-1-6-sources-1-jar/org/springframework/expression/spel/SpelEvaluationException.java
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* /opt/cola/permits/2011373589_1715829093.2639968/0/spring-expression-6-1-6-sources-1-jar/org/springframework/expression/spel/support/ReflectiveConstructorExecutor.java
* /opt/cola/permits/2011373589_1715829093.2639968/0/spring-expression-6-1-6-sources-1-jar/org/springframework/expression/AccessException.java
* /opt/cola/permits/2011373589_1715829093.2639968/0/spring-expression-6-1-6-sources-1-jar/org/springframework/expression/spel/SpelParseException.java
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* /opt/cola/permits/2011373589_1715829093.2639968/0/spring-expression-6-1-6-sources-1-jar/org/springframework/expression/spel/ast/OpModulus.java
* /opt/cola/permits/2011373589_1715829093.2639968/0/spring-expression-6-1-6-sources-1-jar/org/springframework/expression/spel/ast/OperatorInstanceof.java
* /opt/cola/permits/2011373589_1715829093.2639968/0/spring-expression-6-1-6-sources-1-jar/org/springframework/expression/spel/ast/OpDivide.java
* /opt/cola/permits/2011373589_1715829093.2639968/0/spring-expression-6-1-6-sources-1-jar/org/springframework/expression/spel/standard/SpelExpression.java
* /opt/cola/permits/2011373589_1715829093.2639968/0/spring-expression-6-1-6-sources-1-jar/org/springframework/expression/spel/ast/Ternary.java
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* /opt/cola/permits/2011373589_1715829093.2639968/0/spring-expression-6-1-6-sources-1-jar/org/springframework/expression/TypeLocator.java
* /opt/cola/permits/2011373589_1715829093.2639968/0/spring-expression-6-1-6-sources-1-

jar/org/springframework/expression/spel/ast/Assign.java
* /opt/cola/permits/2011373589_1715829093.2639968/0/spring-expression-6-1-6-sources-1-jar/org/springframework/expression/spel/support/StandardTypeComparator.java
* /opt/cola/permits/2011373589_1715829093.2639968/0/spring-expression-6-1-6-sources-1-jar/org/springframework/expression/ParserContext.java
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* /opt/cola/permits/2011373589_1715829093.2639968/0/spring-expression-6-1-6-sources-1-jar/org/springframework/expression/spel/ast/OpPlus.java
* /opt/cola/permits/2011373589_1715829093.2639968/0/spring-expression-6-1-6-sources-1-jar/org/springframework/expression/spel/ExpressionState.java
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* /opt/cola/permits/2011373589_1715829093.2639968/0/spring-expression-6-1-6-sources-1-jar/org/springframework/expression/spel/support/StandardOperatorOverloader.java
* /opt/cola/permits/2011373589_1715829093.2639968/0/spring-expression-6-1-6-sources-1-jar/org/springframework/expression/spel/standard/InternalSpelExpressionParser.java
* /opt/cola/permits/2011373589_1715829093.2639968/0/spring-expression-6-1-6-sources-1-jar/org/springframework/expression/spel/ast/Literal.java
* /opt/cola/permits/2011373589_1715829093.2639968/0/spring-expression-6-1-6-sources-1-jar/org/springframework/expression/spel/support/StandardTypeLocator.java
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* /opt/cola/permits/2011373589_1715829093.2639968/0/spring-expression-6-1-6-sources-1-jar/org/springframework/expression/spel/ast/OperatorMatches.java
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* /opt/cola/permits/2011373589_1715829093.2639968/0/spring-expression-6-1-6-sources-1-jar/org/springframework/expression/spel/support/BooleanTypedValue.java
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* /opt/cola/permits/2011373430_1715829190.3062892/0/netty-resolver-dns-classes-macos-4-1-109-final-sources-1-jar/META-INF/maven/io.netty/netty-resolver-dns-classes-macos/pom.xml
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* /opt/cola/permits/2011373430_1715829190.3062892/0/netty-resolver-dns-classes-macos-4-1-109-final-sources-1-jar/io/netty/resolver/dns/macos/DnsResolver.java

* /opt/cola/permits/2011373430_1715829190.3062892/0/netty-resolver-dns-classes-macos-4-1-109-final-sources-1-jar/io/netty/resolver/dns/macos/MacOSDnsServerAddressStreamProvider.java
*
/opt/cola/permits/2011373430_1715829190.3062892/0/netty-resolver-dns-classes-macos-4-1-109-final-sources-1-jar/io/netty/resolver/dns/macos/package-info.java

1.4239 netty-resolver 4.1.109.Final

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* /opt/cola/permits/2011373289_1715828678.6932268/0/netty-resolver-4-1-109-final-sources-1-jar/io/netty/resolver/NoopAddressResolverGroup.java
* /opt/cola/permits/2011373289_1715828678.6932268/0/netty-resolver-4-1-109-final-sources-1-jar/io/netty/resolver/SimpleNameResolver.java
*
/opt/cola/permits/2011373289_1715828678.6932268/0/netty-resolver-4-1-109-final-sources-1-jar/io/netty/resolver/NameResolver.java
* /opt/cola/permits/2011373289_1715828678.6932268/0/netty-resolver-4-1-109-final-sources-1-jar/io/netty/resolver/AddressResolverGroup.java
* /opt/cola/permits/2011373289_1715828678.6932268/0/netty-resolver-4-1-109-final-sources-1-jar/io/netty/resolver/NoopAddressResolver.java
* /opt/cola/permits/2011373289_1715828678.6932268/0/netty-resolver-4-1-109-final-sources-1-jar/io/netty/resolver/package-info.java
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* /opt/cola/permits/2011373289_1715828678.6932268/0/netty-resolver-4-1-109-final-sources-1-jar/io/netty/resolver/HostsFileEntriesProvider.java
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* /opt/cola/permits/2011373289_1715828678.6932268/0/netty-resolver-4-1-109-final-sources-1-jar/META-INF/maven/io.netty/netty-resolver/pom.xml
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* /opt/cola/permits/2011373289_1715828678.6932268/0/netty-resolver-4-1-109-final-sources-1-jar/io/netty/resolver/RoundRobinInetAddressResolver.java
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* /opt/cola/permits/2011373289_1715828678.6932268/0/netty-resolver-4-1-109-final-sources-1-jar/io/netty/resolver/AddressResolver.java
* /opt/cola/permits/2011373289_1715828678.6932268/0/netty-resolver-4-1-109-final-sources-1-jar/io/netty/resolver/InetNameResolver.java
* /opt/cola/permits/2011373289_1715828678.6932268/0/netty-resolver-4-1-109-final-sources-1-jar/io/netty/resolver/DefaultAddressResolverGroup.java
*
 /opt/cola/permits/2011373289_1715828678.6932268/0/netty-resolver-4-1-109-final-sources-1-jar/io/netty/resolver/AbstractAddressResolver.java
* /opt/cola/permits/2011373289_1715828678.6932268/0/netty-resolver-4-1-109-final-sources-1-jar/io/netty/resolver/DefaultNameResolver.java
* /opt/cola/permits/2011373289_1715828678.6932268/0/netty-resolver-4-1-109-final-sources-1-jar/io/netty/resolver/InetSocketAddressResolver.java
* /opt/cola/permits/2011373289_1715828678.6932268/0/netty-resolver-4-1-109-final-sources-1-jar/io/netty/resolver/HostsFileEntriesResolver.java
* /opt/cola/permits/2011373289_1715828678.6932268/0/netty-resolver-4-1-109-final-sources-1-jar/io/netty/resolver/CompositeNameResolver.java
* /opt/cola/permits/2011373289_1715828678.6932268/0/netty-resolver-4-1-109-final-sources-1-jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java
* /opt/cola/permits/2011373289_1715828678.6932268/0/netty-resolver-4-1-109-final-sources-1-

jar/io/netty/resolver/HostsFileParser.java
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* /opt/cola/permits/2011373289_1715828678.6932268/0/netty-resolver-4-1-109-final-sources-1-jar/io/netty/resolver/HostsFileEntries.java

1.4240 netty-handler 4.1.109.Final

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* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/pcap/PcapHeaders.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/pcap/IPPacket.java

*
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* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/pcap/PcapWriter.java
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/opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/OpenSslSession.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-

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/opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java
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* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/traffic/GlobalChannelTrafficCounter.java
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/opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/Java7SslParametersUtils.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/OpenSsl.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/OpenSslNpnApplicationProtocolNegotiator.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ipfilter/package-info.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ipfilter/RuleBasedIpFilter.java
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* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/OpenSslContext.java
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* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-

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* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/CipherSuiteFilter.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/ApplicationProtocolUtil.java
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* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/util/BouncyCastleSelfSignedCertGenerator.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/JdkApplicationProtocolNegotiator.java
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/opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/OpenSslEngine.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/OpenSslApplicationProtocolNegotiator.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ipfilter/AbstractRemoteAddressFilter.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ipfilter/IpFilterRule.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/SslContext.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/SniHandler.java
*
/opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/util/LazyX509Certificate.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/util/InsecureTrustManagerFactory.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/OpenSslServerSessionContext.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/JettyNpnSslEngine.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/JdkDefaultApplicationProtocolNegotiator.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ipfilter/IpSubnetFilterRule.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ipfilter/IpFilterRuleType.java
*
/opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/CipherSuiteConverter.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/JdkSslContext.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ipfilter/UniqueIpFilter.java

* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/OpenSslDefaultApplicationProtocolNegotiator.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/JettyAlpnSslEngine.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/util/OpenJdkSelfSignedCertGenerator.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/JdkSslEngine.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/IdentityCipherSuiteFilter.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/JdkNpnApplicationProtocolNegotiator.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/JdkAlpnApplicationProtocolNegotiator.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/OpenSslClientContext.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/OpenSslEngineMap.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/SslUtils.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/OpenSslSessionContext.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/JdkSslServerContext.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/ApplicationProtocolNegotiator.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/OpenSslSessionStats.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/util/SimpleTrustManagerFactory.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/ApplicationProtocolConfig.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/OpenSslServerContext.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java
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* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/PemValue.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/Java8SslUtils.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-

jar/io/netty/handler/ssl/OpenSslCertificateException.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/flush/FlushConsolidationHandler.java
*
 /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/flush/package-info.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/PemEncoded.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/PemX509Certificate.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/flow/package-info.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/DelegatingSslContext.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/PemPrivateKey.java
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jar/io/netty/handler/traffic/package-info.java
*
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* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java
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* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/SslContextOption.java
*
 /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/BouncyCastleAlpnSslEngine.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/OpenSslSessionId.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/OpenSslAsyncPrivateKeyMethod.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/BouncyCastle.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/GroupsConverter.java
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* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/SslProtocols.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/OpenSslSessionCache.java
*

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* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/OpenSslClientSessionCache.java
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* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/OpenSslCertificateCompressionAlgorithm.java
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* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
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* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
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* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/EnhancingX509ExtendedTrustManager.java
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* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/util/package-info.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/stream/ChunkedInput.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/stream/ChunkedWriteHandler.java
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* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ipfilter/IpSubnetFilter.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ipfilter/IpSubnetFilterRuleComparator.java

* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/SslClosedEngineException.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/logging/ByteBufFormat.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactoryBuilder.java
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* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/SslMasterKeyHandler.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/address/DynamicAddressConnectHandler.java
* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/ssl/util/KeyManagerFactoryWrapper.java
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* /opt/cola/permits/2011373750_1715828881.4203444/0/netty-handler-4-1-109-final-sources-2-jar/io/netty/handler/address/package-info.java

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* /opt/cola/permits/2011373693_1715828682.899391/0/netty-resolver-dns-4-1-109-final-sources-1-jar/io/netty/resolver/dns/SingletonDnsServerAddressStreamProvider.java
* /opt/cola/permits/2011373693_1715828682.899391/0/netty-resolver-dns-4-1-109-final-sources-1-jar/io/netty/resolver/dns/UnixResolverDnsServerAddressStreamProvider.java
* /opt/cola/permits/2011373693_1715828682.899391/0/netty-resolver-dns-4-1-109-final-sources-1-jar/io/netty/resolver/dns/DefaultDnsServerAddressStreamProvider.java
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* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingIdentityHashMap.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/internal/shaded/org/jctools/maps/ConcurrentAutoTable.java
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/opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/internal/shaded/org/jctools/queues/ConcurrentSequencedCircularArrayQueue.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/internal/shaded/org/jctools/util/Pow2.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/AtomicReferenceArrayQueue.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpscUnboundedAtomicArrayQueue.java
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* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-
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* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-
jar/io/netty/util/internal/shaded/org/jctools/util/PortableJvmInfo.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-
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* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-
jar/io/netty/util/internal/shaded/org/jctools/queues/MpmcUnboundedXaddChunk.java
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jar/io/netty/util/ByteProcessor.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-
jar/io/netty/util/internal/MathUtil.java
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* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/concurrent/FastThreadLocalThread.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/internal/CleanerJava6.java
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* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/internal/svm/CleanerJava6Substitution.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/internal/svm/UnsafeRefArrayAccessSubstitution.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/internal/Hidden.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/internal/ObjectPool.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/internal/svm/PlatformDependentSubstitution.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/internal/svm/package-info.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/internal/ReferenceCountUpdater.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/internal/ThreadExecutorMap.java

* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/internal/svm/PlatformDependent0Substitution.java
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* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/DomainMappingBuilder.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/HashingStrategy.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/internal/DefaultPriorityQueue.java
*
 /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/internal/LongCounter.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/internal/PriorityQueueNode.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/concurrent/AbstractScheduledEventExecutor.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/AsyncMapping.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/concurrent/ThreadProperties.java

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* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/internal/ResourcesUtil.java
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* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/internal/logging/CommonsLogger.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/internal/logging/Log4JLogger.java
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io.netty.util.internal.Hidden$NettyBlockHoundIntegration

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* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/META-INF/services/reactor.blockhound.integration.BlockHoundIntegration

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* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/ThreadDeathWatcher.java
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* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/internal/InternalThreadLocalMap.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/ResourceLeakHint.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/internal/IntegerHolder.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/concurrent/PromiseNotifier.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/Mapping.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/AsciiString.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/concurrent/PromiseAggregator.java
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* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/concurrent/FastThreadLocal.java
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 <version>3.1.0</version>
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 <description>Java Concurrency Tools Core Library</description>
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   <artifactId>junit</artifactId>
   <version>${junit.version}</version>
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  <dependency>
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   <artifactId>guava-testlib</artifactId>
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 </dependencies>
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     </includes>
    </configuration>
   </plugin>
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</build>

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</distributionManagement>

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<inceptionYear>2013</inceptionYear>

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  <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
  <distribution>repo</distribution>
 </license>
</licenses>

<scm>
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 <connection>scm:git:https://github.com/JCTools/JCTools</connection>
 <tag>HEAD</tag>
</scm>

<developers>
 <developer>
  <url>https://github.com/nitsanw</url>
 </developer>
 <developer>
  <url>https://github.com/mjpt777</url>
 </developer>
 <developer>
  <url>https://github.com/RichardWarburton</url>
 </developer>
 <developer>
  <url>https://github.com/kay</url>
 </developer>
 <developer>
  <url>https://github.com/franz1981</url>
 </developer>
</developers>

<prerequisites>
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</prerequisites>

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 <java.test.version>1.8</java.test.version>
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  <maven.compiler.testSource>${java.test.version}</maven.compiler.testSource>
  <maven.compiler.testTarget>${java.test.version}</maven.compiler.testTarget>

  <hamcrest.version>1.3</hamcrest.version>
  <junit.version>4.12</junit.version>
  <guava-testlib.version>21.0</guava-testlib.version>
 </properties>
</project>
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 in path(s):
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/META-INF/maven/org.jctools/jctools-core/pom.xml
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* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/internal/ConcurrentSet.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/internal/TypeParameterMatcher.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/concurrent/ScheduledFutureTask.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/concurrent/AbstractEventExecutor.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/internal/AppendableCharSequence.java
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* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/concurrent/ProgressiveFuture.java
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* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/internal/EmptyPriorityQueue.java
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* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/concurrent/UnorderedThreadPoolEventExecutor.java
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* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/internal/logging/Log4JLoggerFactory.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/concurrent/DefaultEventExecutorGroup.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/concurrent/EventExecutor.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/concurrent/FailedFuture.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/HashedWheelTimer.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/NetUtil.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-

jar/io/netty/util/Signal.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/Constant.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/concurrent/EventExecutorGroup.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/internal/logging/Slf4JLogger.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/internal/StringUtil.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/internal/logging/InternalLoggerFactory.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/Timer.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/TimerTask.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/internal/logging/Slf4JLoggerFactory.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/concurrent/BlockingOperationException.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/concurrent/MultithreadEventExecutorGroup.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/internal/package-info.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/AttributeMap.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/internal/SystemPropertyUtil.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/concurrent/GlobalEventExecutor.java
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* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/collection/CharObjectHashMap.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/collection/CharCollections.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/collection/IntObjectMap.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/collection/ShortCollections.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/collection/CharObjectMap.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/collection/ShortObjectHashMap.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/collection/LongObjectMap.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-

jar/io/netty/util/collection/LongCollections.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/collection/LongObjectHashMap.java
*
 /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/collection/IntObjectHashMap.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/collection/ByteObjectHashMap.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/internal/ObjectUtil.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/collection/IntCollections.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/collection/ShortObjectMap.java
* /opt/cola/permits/2011373309_1715828094.1775367/0/netty-common-4-1-109-final-sources-1-jar/io/netty/util/collection/ByteObjectMap.java
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1.4244 accessors-smart 2.5.1

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Manifest-Version: 1.0
Bnd-LastModified: 1710997754558
Build-Jdk: 21.0.2
Built-By: uriel

Bundle-Description: Java reflect give poor performance on getter sette
r an constructor calls, accessors-smart use ASM to speed up those cal
ls.
Bundle-DocURL: https://urielch.github.io/
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: accessors-smart
Bundle-SymbolicName: net.minidev.accessors-smart
Bundle-Vendor: Chemouni Uriel
Bundle-Version: 2.5.1
Created-By: Apache Maven Bundle Plugin
Export-Package: net.minidev.asm;uses:="org.objectweb.asm";version="2.5
.1",net.minidev.asm.ex;version="2.5.1"
Import-Package: org.objectweb.asm;version="[8.0,10)",net.minidev.asm.e
x
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-5.1.1.202006162103

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INF/maven/net.minidev/accessors-smart/pom.xml

1.4245 spring-jdbc 6.1.6

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1.4246 reactor-core 3.6.5

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reactor.core.scheduler.ReactorBlockHoundIntegration

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1.4247 jackson-datatype-jdk8 2.17.1

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1.4248 micrometer-observation 1.12.5

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* /opt/cola/permits/2011373415_1715828913.6524289/0/netty-transport-4-1-109-final-sources-2-jar/io/netty/channel/ExtendedClosedChannelException.java
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* /opt/cola/permits/2011373415_1715828913.6524289/0/netty-transport-4-1-109-final-sources-2-jar/io/netty/channel/socket/nio/NioDatagramChannelConfig.java
* /opt/cola/permits/2011373415_1715828913.6524289/0/netty-transport-4-1-109-final-sources-2-jar/io/netty/bootstrap/AbstractBootstrap.java
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* under the License.
*/
/**
* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
* its {@link ChannelPipeline}.
*
* <h3>Sub-types</h3>
* <p>
* {@link ChannelHandler} itself does not provide many methods, but you usually have to implement one of its subtypes:
* <ul>
* <li>{@link
 ChannelInboundHandler} to handle inbound I/O events, and</li>
* <li>{@link ChannelOutboundHandler} to handle outbound I/O operations.</li>
* </ul>
* </p>
* <p>
* Alternatively, the following adapter classes are provided for your convenience:
* <ul>
* <li>{@link ChannelInboundHandlerAdapter} to handle inbound I/O events,</li>
* <li>{@link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and</li>
* <li>{@link ChannelDuplexHandler} to handle both inbound and outbound events</li>
* </ul>
* </p>
```

```
* <p>
* For more information, please refer to the documentation of each subtype.
* </p>
*
* <h3>The context object</h3>
* <p>
* A {@link ChannelHandler} is provided with a {@link ChannelHandlerContext}
* object.  A {@link ChannelHandler} is supposed to interact with the
* {@link ChannelPipeline} it belongs to via a context object.  Using the
* context object, the {@link ChannelHandler} can pass events upstream or
* downstream, modify the pipeline dynamically,
 or store the information
* (using {@link AttributeKey}s) which is specific to the handler.
*
* <h3>State management</h3>
*
* A {@link ChannelHandler} often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* <pre>
* public interface Message {
*     // your methods here
* }
*
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message&gt; {
*
*     <b>private boolean loggedIn;</b>
*
*     {@code @Override}
*     public void channelRead0({@link ChannelHandlerContext} ctx, Message message) {
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) message);
*             <b>loggedIn = true;</b>
*         } else (message instanceof GetDataMessage) {
*             if (<b>loggedIn</b>) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*             } else {
*                 fail();
*             }
*
 }
*     }
*     ...
* }
* </pre>
* Because the handler instance has a state variable which is dedicated to
* one connection, you have to create a new handler instance for each new
* channel to avoid a race condition where an unauthenticated client can get
* the confidential information:
```

```
* <pre>
* // Create a new handler instance per channel.
* // See {@link ChannelInitializer#initChannel(Channel)}.
* public class DataServerInitializer extends {@link ChannelInitializer}&lt;{@link Channel}&gt; {
*     {@code @Override}
*     public void initChannel({@link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
*     }
* }
*
* </pre>
*
* <h4>Using {@link AttributeKey}s</h4>
*
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use {@link AttributeKey}s which is provided by
* {@link ChannelHandlerContext}:
 * <pre>
* public interface Message {
*     // your methods here
* }
*
* {@code @Sharable}
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message&gt; {
*     private final {@link AttributeKey}&lt;{@link Boolean}&gt; auth =
*         {@link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
*
*     {@code @Override}
*     public void channelRead({@link ChannelHandlerContext} ctx, Message message) {
*         {@link Attribute}&lt;{@link Boolean}&gt; attr = ctx.attr(auth);
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) o);
*             <b>attr.set(true)</b>;
*         } else (message instanceof GetDataMessage) {
*             if (<b>Boolean.TRUE.equals(attr.get())</b>) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*             } else {
*                 fail();
*             }
*         }
*     }
*     ...
* }
* </pre>
* Now that the
 state of the handler is attached to the {@link ChannelHandlerContext}, you can add the
* same handler instance to different pipelines:
```

```
* <pre>
* public class DataServerInitializer extends {@link ChannelInitializer}&lt;{@link Channel}&gt; {
*
*     private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
*
*     {@code @Override}
*     public void initChannel({@link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>SHARED</b>);
*     }
* }
* </pre>
*
*
* <h4>The {@code @Sharable} annotation</h4>
* <p>
* In the example above which used an {@link AttributeKey},
* you might have noticed the {@code @Sharable} annotation.
* <p>
* If a {@link ChannelHandler} is annotated with the {@code @Sharable}
* annotation, it means you can create an instance of the handler just once and
* add it to one or more {@link ChannelPipeline}s multiple times without
* a race condition.
* <p>
* If this annotation is not specified, you have to create
 a new handler
* instance every time you add it to a pipeline because it has unshared state
* such as member variables.
* <p>
* This annotation is provided for documentation purpose, just like
* <a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.
*
* <h3>Additional resources worth reading</h3>
* <p>
* Please refer to the {@link ChannelHandler}, and
* {@link ChannelPipeline} to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a  pipeline,  and how to handle
* the operation in your application.
*/
```

Found in path(s):
* /opt/cola/permits/2011373415_1715828913.6524289/0/netty-transport-4-1-109-final-sources-2-jar/io/netty/channel/ChannelHandler.java
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* /opt/cola/permits/2011373415_1715828913.6524289/0/netty-transport-4-1-109-final-sources-2-jar/io/netty/channel/socket/nio/SelectorProviderUtil.java
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* /opt/cola/permits/2011373415_1715828913.6524289/0/netty-transport-4-1-109-final-sources-2-jar/io/netty/channel/DefaultChannelHandlerContext.java
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* /opt/cola/permits/2011373415_1715828913.6524289/0/netty-transport-4-1-109-final-sources-2-jar/io/netty/channel/PreferHeapByteBufAllocator.java
* /opt/cola/permits/2011373415_1715828913.6524289/0/netty-transport-4-1-109-final-sources-2-jar/io/netty/channel/socket/DuplexChannel.java
* /opt/cola/permits/2011373415_1715828913.6524289/0/netty-transport-4-1-109-final-sources-2-jar/io/netty/bootstrap/ServerBootstrapConfig.java
* /opt/cola/permits/2011373415_1715828913.6524289/0/netty-transport-4-1-109-final-sources-2-jar/io/netty/bootstrap/BootstrapConfig.java
* /opt/cola/permits/2011373415_1715828913.6524289/0/netty-transport-4-1-109-final-sources-2-jar/io/netty/channel/DefaultSelectStrategy.java
* /opt/cola/permits/2011373415_1715828913.6524289/0/netty-transport-4-1-109-final-sources-2-jar/io/netty/channel/SelectStrategyFactory.java
* /opt/cola/permits/2011373415_1715828913.6524289/0/netty-transport-4-1-109-final-sources-2-jar/io/netty/channel/WriteBufferWaterMark.java
* /opt/cola/permits/2011373415_1715828913.6524289/0/netty-transport-4-1-109-final-sources-2-jar/io/netty/channel/ChannelOutboundInvoker.java
* /opt/cola/permits/2011373415_1715828913.6524289/0/netty-transport-4-1-109-final-sources-2-jar/io/netty/channel/ChannelInboundInvoker.java
* /opt/cola/permits/2011373415_1715828913.6524289/0/netty-transport-4-1-109-final-sources-2-jar/io/netty/channel/DefaultSelectStrategyFactory.java
* /opt/cola/permits/2011373415_1715828913.6524289/0/netty-transport-4-1-109-final-sources-2-jar/io/netty/channel/SelectStrategy.java
* /opt/cola/permits/2011373415_1715828913.6524289/0/netty-transport-4-1-109-final-sources-2-jar/io/netty/channel/group/VoidChannelGroupFuture.java
* /opt/cola/permits/2011373415_1715828913.6524289/0/netty-transport-4-1-109-final-sources-2-jar/io/netty/bootstrap/AbstractBootstrapConfig.java
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* /opt/cola/permits/2011373415_1715828913.6524289/0/netty-transport-4-1-109-final-sources-2-jar/io/netty/channel/AbstractCoalescingBufferQueue.java
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1.4250 netty-handler-proxy 4.1.109.Final

1.4250.1 Available under license :

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* /opt/cola/permits/2011373724_1715828684.879505/0/netty-handler-proxy-4-1-109-final-sources-1-jar/io/netty/handler/proxy/Socks5ProxyHandler.java
* /opt/cola/permits/2011373724_1715828684.879505/0/netty-handler-proxy-4-1-109-final-sources-1-jar/io/netty/handler/proxy/ProxyConnectionEvent.java
*
 /opt/cola/permits/2011373724_1715828684.879505/0/netty-handler-proxy-4-1-109-final-sources-1-jar/io/netty/handler/proxy/HttpProxyHandler.java
* /opt/cola/permits/2011373724_1715828684.879505/0/netty-handler-proxy-4-1-109-final-sources-1-jar/io/netty/handler/proxy/ProxyHandler.java
* /opt/cola/permits/2011373724_1715828684.879505/0/netty-handler-proxy-4-1-109-final-sources-1-jar/io/netty/handler/proxy/ProxyConnectException.java
* /opt/cola/permits/2011373724_1715828684.879505/0/netty-handler-proxy-4-1-109-final-sources-1-jar/io/netty/handler/proxy/package-info.java
* /opt/cola/permits/2011373724_1715828684.879505/0/netty-handler-proxy-4-1-109-final-sources-1-jar/io/netty/handler/proxy/Socks4ProxyHandler.java
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1.4251 netty-transport-native-epoll 4.1.109.Final

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1.4252 netty-codec-socks 4.1.109.Final

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* /opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socksx/SocksPortUnificationServerHandler.java
*
 /opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socksx/v5/Socks5AddressDecoder.java
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* /opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socksx/v5/Socks5InitialResponseDecoder.java
* /opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socksx/AbstractSocksMessage.java
* /opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socksx/v4/package-info.java
* /opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socksx/v5/Socks5InitialRequestDecoder.java
* /opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socksx/v4/Socks4ClientEncoder.java
* /opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socksx/v4/Socks4ServerEncoder.java
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* /opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socksx/v4/AbstractSocks4Message.java
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* /opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socks/UnknownSocksResponse.java
* /opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socksx/v5/package-info.java
* /opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socks/SocksCmdResponseDecoder.java
* /opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socksx/SocksMessage.java
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* /opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socks/SocksMessage.java
* /opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socksx/v5/DefaultSocks5PasswordAuthRequest.java
* /opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socks/SocksInitResponseDecoder.java
* /opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socksx/v4/DefaultSocks4CommandRequest.java
* /opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socks/SocksCmdRequestDecoder.java
* /opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-

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* /opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socks/SocksResponse.java
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*
/opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthRequest.java
* /opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socksx/v4/Socks4CommandResponse.java
* /opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socksx/v5/Socks5InitialRequest.java
* /opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socksx/v4/Socks4CommandType.java
* /opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socksx/v5/DefaultSocks5CommandRequest.java
* /opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socksx/v4/Socks4CommandStatus.java
* /opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socksx/v5/DefaultSocks5CommandResponse.java
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* /opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socks/SocksInitResponse.java
* /opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socksx/v4/Socks4ServerDecoder.java
* /opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socks/SocksCommonUtils.java
* /opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socks/SocksAuthRequestDecoder.java
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* /opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socks/SocksAuthResponse.java
* /opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socksx/v5/DefaultSocks5InitialResponse.java
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* /opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socks/SocksRequest.java
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/opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socksx/v5/Socks5CommandRequest.java
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* /opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socks/SocksCmdRequest.java
* /opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socks/SocksAuthRequest.java
* /opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socks/UnknownSocksRequest.java
* /opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socksx/v5/Socks5InitialResponse.java
* /opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socks/package-info.java
*
/opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socks/SocksMessageEncoder.java
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* /opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socksx/v5/Socks5AuthMethod.java
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* /opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socks/SocksAuthStatus.java
* /opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socks/SocksRequestType.java
* /opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-

jar/io/netty/handler/codec/socks/SocksSubnegotiationVersion.java
* /opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socks/SocksCmdType.java
* /opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socksx/v5/Socks5AddressType.java
* /opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socksx/v5/Socks5CommandStatus.java
* /opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socks/SocksAddressType.java
* /opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socks/SocksCmdStatus.java
* /opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socks/SocksMessageType.java
* /opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socks/SocksResponseType.java
* /opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socksx/SocksVersion.java
* /opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socks/SocksProtocolVersion.java
* /opt/cola/permits/2011373599_1715829153.0289514/0/netty-codec-socks-4-1-109-final-sources-1-jar/io/netty/handler/codec/socksx/v5/Socks5CommandType.java
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1.4253 jackson-module-parameter-names 2.17.1

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1.4254 spring-tx 6.1.6

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* /opt/cola/permits/2011373349_1715828153.1599739/0/spring-tx-6-1-6-sources-1-jar/org/springframework/dao/annotation/PersistenceExceptionTranslationPostProcessor.java
* /opt/cola/permits/2011373349_1715828153.1599739/0/spring-tx-6-1-6-sources-1-jar/org/springframework/transaction/ConfigurableTransactionManager.java
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* /opt/cola/permits/2011373349_1715828153.1599739/0/spring-tx-6-1-6-sources-1-jar/org/springframework/transaction/ReactiveTransactionManager.java
* /opt/cola/permits/2011373349_1715828153.1599739/0/spring-tx-6-1-6-sources-1-jar/org/springframework/jca/endpoint/GenericMessageEndpointManager.java
* /opt/cola/permits/2011373349_1715828153.1599739/0/spring-tx-6-1-6-sources-1-jar/org/springframework/transaction/reactive/GenericReactiveTransaction.java
* /opt/cola/permits/2011373349_1715828153.1599739/0/spring-tx-6-1-6-sources-1-jar/org/springframework/transaction/support/SmartTransactionObject.java
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* /opt/cola/permits/2011373349_1715828153.1599739/0/spring-tx-6-1-6-sources-1-jar/org/springframework/transaction/jta/JtaAfterCompletionSynchronization.java
* /opt/cola/permits/2011373349_1715828153.1599739/0/spring-tx-6-1-6-sources-1-jar/org/springframework/transaction/TransactionStatus.java
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* /opt/cola/permits/2011373349_1715828153.1599739/0/spring-tx-6-1-6-sources-1-jar/org/springframework/transaction/support/TransactionSynchronizationUtils.java
* /opt/cola/permits/2011373349_1715828153.1599739/0/spring-tx-6-1-6-sources-1-jar/org/springframework/jca/endpoint/AbstractMessageEndpointFactory.java
* /opt/cola/permits/2011373349_1715828153.1599739/0/spring-tx-6-1-6-sources-1-jar/org/springframework/transaction/event/TransactionalApplicationListener.java
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* /opt/cola/permits/2011373349_1715828153.1599739/0/spring-tx-6-1-6-sources-1-jar/org/springframework/transaction/interceptor/RollbackRuleAttribute.java
* /opt/cola/permits/2011373349_1715828153.1599739/0/spring-tx-6-1-6-sources-1-jar/org/springframework/transaction/support/TransactionSynchronizationManager.java
*
/opt/cola/permits/2011373349_1715828153.1599739/0/spring-tx-6-1-6-sources-1-jar/org/springframework/transaction/annotation/AbstractTransactionManagementConfiguration.java
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* /opt/cola/permits/2011373349_1715828153.1599739/0/spring-tx-6-1-6-sources-1-jar/org/springframework/dao/OptimisticLockingFailureException.java
* /opt/cola/permits/2011373349_1715828153.1599739/0/spring-tx-6-1-6-sources-1-jar/org/springframework/dao/DataAccessException.java
* /opt/cola/permits/2011373349_1715828153.1599739/0/spring-tx-6-1-6-sources-1-jar/org/springframework/dao/TransientDataAccessException.java
* /opt/cola/permits/2011373349_1715828153.1599739/0/spring-tx-6-1-6-sources-1-jar/org/springframework/dao/NonTransientDataAccessResourceException.java
* /opt/cola/permits/2011373349_1715828153.1599739/0/spring-tx-6-1-6-sources-1-jar/org/springframework/transaction/support/TransactionCallbackWithoutResult.java
* /opt/cola/permits/2011373349_1715828153.1599739/0/spring-tx-6-1-6-sources-1-jar/org/springframework/transaction/support/CallbackPreferringPlatformTransactionManager.java
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* /opt/cola/permits/2011373349_1715828153.1599739/0/spring-tx-6-1-6-sources-1-jar/org/springframework/transaction/support/TransactionSynchronization.java
* /opt/cola/permits/2011373349_1715828153.1599739/0/spring-tx-6-1-6-sources-1-jar/org/springframework/transaction/support/TransactionSynchronizationAdapter.java
* /opt/cola/permits/2011373349_1715828153.1599739/0/spring-tx-6-1-6-sources-1-jar/org/springframework/transaction/interceptor/TransactionInterceptor.java
* /opt/cola/permits/2011373349_1715828153.1599739/0/spring-tx-6-1-6-sources-1-jar/org/springframework/transaction/event/TransactionalEventListenerFactory.java
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 /opt/cola/permits/2011373349_1715828153.1599739/0/spring-tx-6-1-6-sources-1-jar/org/springframework/transaction/jta/JtaTransactionObject.java
* /opt/cola/permits/2011373349_1715828153.1599739/0/spring-tx-6-1-6-sources-1-jar/org/springframework/dao/support/ChainedPersistenceExceptionTranslator.java
* /opt/cola/permits/2011373349_1715828153.1599739/0/spring-tx-6-1-6-sources-1-jar/org/springframework/transaction/jta/SimpleTransactionFactory.java
* /opt/cola/permits/2011373349_1715828153.1599739/0/spring-tx-6-1-6-sources-1-jar/org/springframework/transaction/support/ResourceHolderSynchronization.java
* /opt/cola/permits/2011373349_1715828153.1599739/0/spring-tx-6-1-6-sources-1-jar/org/springframework/transaction/support/ResourceTransactionDefinition.java
* /opt/cola/permits/2011373349_1715828153.1599739/0/spring-tx-6-1-6-sources-1-jar/org/springframework/transaction/support/SimpleTransactionStatus.java
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 /opt/cola/permits/2011373349_1715828153.1599739/0/spring-tx-6-1-6-sources-1-jar/org/springframework/transaction/InvalidTimeoutException.java
* /opt/cola/permits/2011373349_1715828153.1599739/0/spring-tx-6-1-6-sources-1-jar/org/springframework/transaction/config/TransactionManagementConfigUtils.java
* /opt/cola/permits/2011373349_1715828153.1599739/0/spring-tx-6-1-6-sources-1-jar/org/springframework/transaction/support/ResourceHolderSupport.java
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* /opt/cola/permits/2011373349_1715828153.1599739/0/spring-tx-6-1-6-sources-1-jar/org/springframework/transaction/interceptor/DefaultTransactionAttribute.java
* /opt/cola/permits/2011373349_1715828153.1599739/0/spring-tx-6-1-6-sources-1-jar/org/springframework/jca/support/SimpleBootstrapContext.java
* /opt/cola/permits/2011373349_1715828153.1599739/0/spring-tx-6-1-6-sources-1-jar/org/springframework/transaction/annotation/ProxyTransactionManagementConfiguration.java
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* /opt/cola/permits/2011373349_1715828153.1599739/0/spring-tx-6-1-6-sources-1-jar/org/springframework/transaction/annotation/JtaTransactionAnnotationParser.java
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jar/org/springframework/transaction/interceptor/DelegatingTransactionAttribute.java
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---
fontconfig/fc-case/CaseFolding.txt

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---
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---

fontconfig/src/fcfoundry.h

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*/

---

fontconfig/src/fcmd5.h

/*
* This code implements the MD5 message-digest algorithm.

```
* The algorithm is due to Ron Rivest.  This code was
* written by Colin Plumb in 1993, no copyright is claimed.
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*
* Equivalent code is available from RSA Data Security, Inc.
* This code has been tested against that, and is equivalent,
* except that you don't need to include two pages of legalese
* with every copy.
*
* To compute the message digest of a chunk of bytes, declare an
* MD5Context structure, pass it to MD5Init, call MD5Update
 as
* needed on buffers full of bytes, and then call MD5Final, which
* will fill a supplied 16-byte array with the digest.
*/
```

---

fontconfig/src/fcmutex.h

```
/*
* Atomic int and pointer operations.  Originally copied from HarfBuzz.
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*/


-----------------------------------------------------------------------------
fontconfig/src/ftglue.[ch]

/* ftglue.c: Glue code for compiling the OpenType code from
*          FreeType 1 using only the public API of FreeType 2
*
* By David Turner, The FreeType Project (www.freetype.org)
*
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*
* ============================================================================
*
* the OpenType
 parser codes was originally written as an extension to
* FreeType 1.x. As such, its source code was embedded within the library,
* and used many internal FreeType functions to deal with memory and
* stream i/o.
*
* When it was 'salvaged' for Pango and Qt, the code was "ported" to FreeType 2,
* which basically means that some macro tricks were performed in order to
* directly access FT2 _internal_ functions.
*
* these functions were never part of FT2 public API, and _did_ change between
* various releases. This created chaos for many users: when they upgraded the
* FreeType library on their system, they couldn't run Gnome anymore since
* Pango refused to link.
*
* Very fortunately, it's possible to completely avoid this problem because
* the FT_StreamRec and FT_MemoryRec structure types, which describe how
* memory and stream implementations interface with the rest of the font
* library, have always been part of the public API, and never changed.
*
* What we do
 thus is re-implement, within the OpenType parser, the few
* functions that depend on them. This only adds one or two kilobytes of
* code, and ensures that the parser can work with _any_ version
* of FreeType installed on your system. How sweet... !
*
* Note that we assume that Pango doesn't use any other internal functions
* from FreeType. It used to in old versions, but this should no longer
* be the case. (crossing my fingers).
*
*  - David Turner
```

```
*  - The FreeType Project  (www.freetype.org)
*
* PS: This "glue" code is explicitely put in the public domain
*/
```

1.4268 libintl 0.22.5-r0

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the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)
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2 above provided that you accompany
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medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
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A program that contains no derivative of any portion of the
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However, linking a ``work that uses the Library'' with the Library
creates an executable that is a derivative of the Library (because
it
contains portions of the Library), rather than a ``work that uses the

library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

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that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
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Otherwise,
if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
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with the Library, with the complete machine-readable ``work that
uses the Library'', as object code and/or source code, so that the

user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
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and (2) will operate
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@end enumerate

@iftex
@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@center END OF TERMS AND CONDITIONS

@end ifinfo

@page
@heading Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the ``copyright'' line and a pointer to where the full notice is found.

@smallexample
@var{one line to give the program's name
and a brief idea of what it does.}
Copyright (C) @var{yyyy} @var{name of author}

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@end smallexample

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

@smallexample
Gnomovision version
 69, Copyright (C) @var{year} @var{name of author}
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
@end smallexample

The hypothetical commands @samp{show w} and @samp{show c} should show
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commands you use may be called something other than @samp{show w} and
@samp{show c}; they could even be mouse-clicks or menu items---whatever
suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a ``copyright disclaimer'' for the program, if
necessary. Here is a sample; alter the names:

@example
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example

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The gettext-runtime package is partially under the LGPL and partially under
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- the libintl.jar Java library,
- the GNU.Gettext.dll C# library,
- the gettext.sh shells script function library.

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directory:
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Version 2.1, February 1999

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permits such linking only if the
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
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work. (Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may
distribute
the object code for the work under the terms of Section 6.
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whether or not they are linked directly with the Library itself.
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Version 3, 29 June 2007

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1.4270 protobuf 1.33.1-0.20240408130810-98873a205002

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1.4271 cors 1.11.0

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1.4272 github.com/cyberphone/json-canonicalization 0.0.0-20231217050601-ba74d44ecf5f

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1.4273 grpc-gateway 2.20.0

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1.4274 github.com/grpc-ecosystem/grpc-gateway/v2 2.20.0

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1.4276 go-pkcs11uri 0.0.0-20230803200340-78284954bff6

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1. INTRODUCTION

The OASIS Intellectual Property Rights (IPR) Policy governs the treatment of intellectual property in the production of deliverables by OASIS Open (hereafter referred to as OASIS).

This Policy applies to all members of OASIS and their Affiliates (as defined below). The OASIS Board of Directors may amend this Policy at any time in its sole discretion. In the event of such change to this Policy, the Board will provide instructions for transition of membership and Technical Committees to the new Policy; however, no amendment to this Policy will be effective in less than
60 calendar days from the date that written notice of such amendment is given to the Member at its address of record with OASIS.

2. DEFINITIONS

Each capitalized term within this document shall have the meaning provided below:

Affiliate any entity that directly or indirectly controls, is controlled by, or is under common control with, another entity, so long as such control exists. In the event that such control ceases to exist, such Affiliate will be deemed to have withdrawn from OASIS pursuant to the terms set forth in the withdrawal provisions in Section 11. For purposes of this definition, with respect to a business entity, control means direct or indirect beneficial ownership of or the right to exercise (i) greater than fifty percent (50%) of the voting stock or equity in an entity; or (ii) greater than fifty percent (50%) of the ownership interest representing the right to make the decisions for the subject entity in the event that there is no voting stock or equity.
Beneficiary
  any organization, including its Affiliates as defined in this Policy, or individual who benefits from the OASIS Non-Assertion Covenant with respect to Essential Claims from Obligated Parties for a particular OASIS Standards Final Deliverable. A Beneficiary need not be an OASIS member.
Continuing Licensing or Non-Assertion Obligation a licensing or non-assertion obligation, of the types defined by Section 9 of this Policy, which survives a TC Partys withdrawal from an OASIS Technical Committee.
Contribution any material submitted to an OASIS Technical Committee by a TC Member in writing or electronically, whether in an in-person meeting or in any electronic conference or mailing list maintained by OASIS for the OASIS Technical Committee and which is or was proposed for inclusion in an OASIS Deliverable.
Contribution Obligation a licensing or non-assertion requirement, as described in Section 10 that results from making a Contribution as described in Section 9.1.
Contributor a TC
 Party on whose behalf a Contribution is made by the TC Partys TC Member.
Covered Product includes only those specific portions of a product (hardware, software or combinations thereof) that (a) implement and are compliant with all Normative Portions of an OASIS Standards Final Deliverable produced by a Non-Assertion Mode TC that must be implemented to comply with such deliverable, and (b) to the

extent that the product implements one or more optional portions of such deliverable, those portions that implement and are compliant with all Normative Portions that must be implemented to comply with such optional portions of the deliverable.

Eligible Person one of a class of individuals that include: persons holding individual memberships in OASIS, employees or designees of organizational members of OASIS, and such other persons as may be designated by the OASIS Board of Directors.

Essential Claims those claims in any patent or patent application in any jurisdiction in the world that would necessarily be infringed by an implementation of those portions of a particular OASIS Standards Final Deliverable created within the scope of the TC charter in effect at the time such deliverable was developed. A claim is necessarily infringed hereunder only when it is not possible to avoid infringing it because there is no non-infringing alternative for implementing the Normative Portions of that particular OASIS Standards Final Deliverable. Existence of a non-infringing alternative shall be judged based on the state of the art at the time the OASIS Standards Final Deliverable is approved.

Feedback any written or electronic input provided to an OASIS Technical Committee by individuals who are not TC Members and which is proposed for inclusion in an OASIS Deliverable. All such Feedback must be made under the terms of the Feedback License (Appendix A).

Final Maintenance Deliverable Any OASIS Standards Final Deliverable that results entirely from Maintenance Activity.

IPR Mode an element of an OASIS TC charter, which specifies the type of licenses or non-assertion covenants required for any Essential Claims associated with the output produced by a given Technical Committee. This is further described in Section 4.

Licensed Products include only those specific portions of a Licensees products (hardware, software or combinations thereof) that (a) implement and are compliant with all Normative Portions of an OASIS Standards Final Deliverable that must be implemented to comply with such deliverable, and (b) to the extent that the Licensees products implement one or more optional portions of such deliverable, those portions of Licensees products that implement and are compliant with all Normative Portions that must be implemented to comply with such optional portions of the deliverable.

Licensee any organization, including its Affiliates as defined in this Policy, or individual that licenses Essential Claims from Obligated Parties for a particular OASIS Standards Final Deliverable. Licensees need not be OASIS members.

Maintenance Activity Any drafting or development work to modify an OASIS Standards Final Deliverable that (a) constitutes only error corrections, bug fixes or editorial formatting changes to the OASIS Standards Final Deliverable; and (b) does not add any feature; and (c) is within the scope of the TC that approved the OASIS Standards Final Deliverable (whether or not the work is conducted by the same TC).

Normative Portion a portion of an OASIS Standards Final Deliverable that must be implemented to comply with such deliverable. If such deliverable defines optional parts, Normative Portions include those portions of the optional part that must be implemented if the implementation is to comply with such optional part. Examples and/or reference implementations and other specifications or standards that were developed outside the TC and which are referenced in the body of a particular OASIS Standards Final Deliverable that may be included in such deliverable are not Normative Portions.

Non-Assertion Mode TC an OASIS TC that is chartered under the Non-Assertion IPR Mode described in Section 4.

OASIS Deliverable a work product developed by a Technical Committee within the scope of its charter which is enumerated in and developed in accordance with the OASIS Technical Committee Process.

OASIS Standards Draft Deliverable an OASIS Deliverable that has been designated and approved by a Technical Committee as an OASIS Standards Draft Deliverable and which is enumerated in and developed in accordance with the OASIS Technical Committee Process.

OASIS Standards Final Deliverable an OASIS Deliverable that has been designated and approved by a Technical Committee as an OASIS Standards Final Deliverable and which is enumerated in and developed in accordance with

the OASIS Technical Committee Process.
OASIS Party a member of OASIS (i.e., an entity that has executed an OASIS Membership Agreement) and its Affiliates.
OASIS TC
Administrator the person(s) appointed to represent OASIS in administrative matters relating to TCs as provided by the OASIS Technical Committee Process.
OASIS Technical Committee (TC) a group of Eligible Persons formed, and whose actions are conducted, according to the provisions of the OASIS Technical Committee Process.
OASIS Technical Committee Process the OASIS OPEN TECHNICAL COMMITTEE PROCESS, as from time to time amended, which describes the operation of Technical Committees at OASIS.
Obligated Party a TC Party that incurs a licensing or non-assertion obligation for its Essential Claims by either a Contribution Obligation or a Participation Obligation.
Participation Obligation a licensing or non-assertion requirement, as described in Section 10, that arises from membership in an OASIS Technical Committee, as described in Section 9.2.
RAND Mode TC an OASIS TC that is chartered under the RAND IPR Mode described in Section 4.
RF Mode TC an OASIS TC that is chartered under one
of the RF IPR Modes described in Section 4.
TC Member an Eligible Person who has completed the requirements to join a TC during the period in which s/he maintains his or her membership as described by the OASIS Technical Committee Process. A TC Member may represent the interests of a TC Party in the TC.
TC Party an OASIS Party that is, or is represented by, a TC Member in the relevant Technical Committee.

3. CONFIDENTIALITY

Neither Contributions nor Feedback that are subject to any requirement of confidentiality may be considered in any part of the OASIS Technical Committee Process. All Contributions and Feedback will therefore be deemed to have been submitted on a non-confidential basis, notwithstanding any markings or representations to the contrary, and OASIS shall have no obligation to treat any such material as confidential.

4. TC FORMATION

At the time a TC is chartered, the proposal to form the TC must specify the IPR Mode under which the Technical Committee will operate.
This Policy describes the following IPR Modes:

RAND requires all Obligated Parties to license their Essential Claims using the RAND licensing elements described in Section 10.1.
RF on RAND Terms requires all Obligated Parties to license their Essential Claims using the RF licensing elements described in Sections 10.2.1 and 10.2.2.
RF on Limited Terms requires all Obligated Parties to license their Essential Claims using the RF licensing elements described in Sections 10.2.1 and 10.2.3.
Non-Assertion requires all Obligated Parties to provide an OASIS Non-Assertion Covenant as described in Section 10.3.
A TC may not change its IPR Mode without closing and submitting a new charter.

5. CONTRIBUTIONS

5.1 General

At the time of submission of a Contribution for consideration by an OASIS Technical Committee, each named co-Contributor (and its respective Affiliates) is deemed to agree to the following terms and conditions and to make the following representations (based on the actual knowledge
of the TC Member(s) making the Contribution, with respect to items 3 5 below, inclusive):

OASIS has no duty to publish or otherwise use or disseminate any Contribution.
OASIS may reference the name(s) of the Contributor(s) for the purpose of acknowledging and publishing the Contribution.
The Contribution properly identifies any holders of copyright interests in the Contribution.
No information in the Contribution is confidential, and OASIS may freely disclose any information in the Contribution.
There are no limits to the Contributors ability to make the grants, acknowledgments, and agreements required by this Policy with respect to such Contribution.
5.2 Copyright Licenses

To the extent that a Contributor holds a copyright interest in its Contribution, such Contributor grants to OASIS a perpetual, irrevocable, non-exclusive, royalty-free, worldwide copyright license, with the right to directly and indirectly sublicense, to copy, publish, and distribute the Contribution in any
way, and to prepare derivative works that are based on or incorporate all or part of the Contribution solely for the purpose of developing and promoting the OASIS Deliverable and enabling (subject to the rights of the owners of any Essential Claims) the implementation of the same by Licensees or Beneficiaries.
To the extent that a Contribution is subject to copyright by parties that are not Contributors, the submitter(s) must provide OASIS with a signed Copyright License Grant (Appendix B) from each such copyright owner whose permission would be required to permit OASIS to exercise the rights described in Appendix B.
5.3 Trademarks

Trademarks or service marks that are not owned by OASIS shall not be used by OASIS, except as approved by the OASIS Board of Directors, to refer to work conducted at OASIS, including the use in the name of an OASIS TC, an OASIS Deliverable, or incorporated into such work.
No OASIS Party may use an OASIS trademark or service mark in connection with an OASIS
Deliverable or otherwise, except in compliance with such license and usage guidelines as OASIS may from time to time require.
6. LIMITED PATENT COVENANT FOR DELIVERABLE DEVELOPMENT

To permit TC Members and their TC Parties to develop implementations of OASIS Standards Draft Deliverables being developed by a TC, each TC Party represented by a TC Member in a TC, at such time that the TC Member joins the TC, grants to each other TC Party in that TC automatically and without further action on its part, and on an ongoing basis, a limited covenant not to assert any Essential Claims required to implement such OASIS Standards Draft Deliverable and covering making or using (but not selling or otherwise distributing) an implementation of such OASIS Standards Draft Deliverable, solely for the purpose of testing and developing such deliverable and only until either the OASIS Standards Draft Deliverable is approved as an OASIS Standards Final Deliverable or the Technical Committee is closed.

7.
FEEDBACK

OASIS encourages Feedback to OASIS Deliverables from both OASIS Parties who are not TC Parties and the public at large. Feedback will be accepted only under the Feedback License (Appendix A).

OASIS will require that submitters of Feedback agree to the terms of the Feedback License before transmitting submitted Feedback to the Technical Committee.

8. DISCLOSURE

Disclosure Obligations Each TC Party shall disclose to OASIS in writing the existence of all patents and/or patent applications owned or claimed by such TC Party that are actually known to the TC Member directly participating in the TC, and which such TC Member believes may contain any Essential Claims or claims that might become Essential Claims upon approval of an OASIS Standards Final Deliverable as such document then exists (collectively, Disclosed Claims).

Disclosure of Third Party Patent Claims Each TC Party whose TC Members become aware of patents or patent applications owned or claimed by a third party that contain claims that might become Essential Claims upon approval of an OASIS Standards Final Deliverable should disclose them, provided that such disclosure is not prohibited by any confidentiality obligation binding upon them. It is understood that any TC Party that discloses third party patent claims to OASIS does not take a position on the essentiality or relevance of the third party claims to the OASIS Standards Final Deliverable in its then-current form.

In both cases (Sections 8.1 and 8.2), it is understood and agreed that such TC Party(s) TC Member(s) do not represent that they know of all potentially pertinent claims of patents and patent applications owned or claimed by the TC Party or any third parties. For the avoidance of doubt, while the disclosure obligation under Sections 8.1 and 8.2 applies directly to all TC Parties, this obligation is triggered based on the actual knowledge of the TC Partys TC Members regarding the TC Partys patents or patent applications that may contain Essential Claims.

Disclosure Requests Disclosure requests will be included as described in Section 12 with all public review copies of OASIS Standards Final Deliverables. All OASIS Parties are encouraged to review such OASIS Standards Final Deliverables and make appropriate disclosures.

Limitations A disclosure request and the obligation to disclose set forth above do not imply any obligations on the recipients of disclosure requests (collectively or individually) or on any OASIS Party to perform or conduct patent searches. Nothing in this Policy nor the act of receiving a disclosure request for an OASIS Standards Final Deliverable, regardless of whether it is responded to, shall be construed or otherwise interpreted as any kind of express or implied representation with respect to the existence or non-existence of patents or patent applications which contain Essential Claims, other than that such TC Party has acted in good faith with respect to its disclosure obligations.

Information

Any disclosure of Disclosed Claims shall include (a) in the case of issued patents and published patent applications, the patent or patent application publication number, the associated country and, as reasonably practicable, the relevant portions of the applicable OASIS Standards Final Deliverable; and (b) in the case of unpublished patent applications, the existence of the unpublished application and, as reasonably practicable, the relevant portions of the applicable OASIS Standards Final Deliverable.

9. TYPES OF OBLIGATIONS

9.1 Contribution Obligation

A TC Party has a Contribution Obligation, which arises at the time the Contribution is submitted to a TC, to license or provide under non-assertion covenants as appropriate for the IPR mode described in Section 10, any claims under its patents or patent applications that become Essential Claims when such Contribution is incorporated (either in whole or in part) into (a) the OASIS Standards Final Deliverable produced by the TC that received the Contribution, or (b) any Final Maintenance Deliverable with respect to that OASIS Standards Final Deliverable.

9.2 Participation Obligation

A TC Party has a Participation Obligation to license or provide under non-assertion covenant as appropriate for the IPR mode, as described in Section 10, any claims under its patents or patent applications that would be Essential Claims in the then current OASIS Standards Draft Deliverable, if that draft subsequently becomes an OASIS Standards Final Deliverable, even if the TC Party is not a Contributor, when all of the following conditions are met:

An OASIS Standards Final Deliverable is finally approved that incorporates such OASIS Standards Draft Deliverable, either in whole or in part;
The TC Party has been on, or has been represented by TC Member(s) on such TC for a total of sixty (60) calendar days, which need not be continuous;
The TC Party is on, or is represented by TC Member(s) on such TC after a period of seven (7) calendar days after the ballot to approve such OASIS Standards Draft Deliverable has elapsed.
Once the foregoing conditions are met, that TC Partys Participation Obligation so to license or provide a non-assertion covenant continues with respect to that OASIS Standards Final Deliverable, and any Final Maintenance Deliverable subsequently approved with respect to that OASIS Standards Final Deliverable.

For organizational TC Parties, the membership threshold is met by one or more employees or organizational designees of such Parties having been a TC Member on any 60 calendar days, although any given calendar day is only one day of membership, regardless of the number of participants on that day.

Each time a new OASIS Standards Draft Deliverable is approved by the TC, the Participation Obligation adjusts to encompass the material in the latest OASIS Standards Draft Deliverable seven days after such draft has been approved for publication.

10. LICENSING REQUIREMENTS

10.1 RAND Mode TC Requirements

For an OASIS Standards Final Deliverable developed by a RAND Mode TC, except where a Licensee has a separate, signed agreement under which the Essential Claims are licensed to such Licensee on more favorable terms and conditions than set forth in this section (in which case such separate signed agreement shall supersede this Limited Patent License), each Obligated Party in such TC hereby covenants that, upon request and subject to Section 11, it will grant to any OASIS Party or third party: a nonexclusive, worldwide, non-sublicensable, perpetual patent license (or an equivalent non-assertion covenant) under its Essential Claims covered by its Contribution Obligations or Participation Obligations on fair, reasonable, and non-discriminatory terms to make, have made, use, market, import, offer to sell, and sell, and to otherwise directly or indirectly distribute (a) Licensed Products that implement such OASIS Standards Final Deliverable, and (b) Licensed Products that implement any Final Maintenance Deliverable with respect to that OASIS Standards Final Deliverable. Such license need not extend to features of a Licensed Product that are not required to comply with the Normative Portions of such OASIS Standards Final Deliverable or Final Maintenance Deliverable. For the sake of clarity, the rights set forth above include the right to directly or indirectly authorize a third party to make unmodified copies of the Licensees Licensed Products and to license (optionally under the third partys license) the Licensees Licensed Products within the scope of, and subject to the terms of, the Obligated Partys license.

At the election of the Obligated Party, such license may include a term requiring the Licensee to grant a reciprocal

license to its Essential Claims (if any) covering the same OASIS Standards Final Deliverable and any such Final Maintenance Deliverable. Such term may require the Licensee to grant licenses to all implementers of such deliverable. The Obligated
Party may also include a term providing that such license may be suspended with respect to the Licensee if that Licensee first sues the Obligated Party for infringement by the Obligated Party of any of the Licensees Essential Claims covering the same OASIS Standards Final Deliverable or any such Final Maintenance Deliverable.

License terms that are fair, reasonable, and non-discriminatory beyond those specifically mentioned above are left to the Licensees and Obligated Parties involved.

10.2 RF Mode TC Requirements

10.2.1 Common

For an OASIS Standards Final Deliverable developed by an RF Mode TC, except where a Licensee has a separate, signed agreement under which the Essential Claims are licensed to such Licensee on more favorable terms and conditions than set forth in this section (in which case such separate signed agreement shall supersede this Limited Patent License), each Obligated Party in such TC hereby covenants that, upon request and subject to Section 11, it will
grant to any OASIS Party or third party: a nonexclusive, worldwide, non-sublicensable, perpetual patent license (or an equivalent non-assertion covenant) under its Essential Claims covered by its Contribution Obligations or Participation Obligations without payment of royalties or fees, and subject to the applicable Section 10.2.2 or 10.2.3, to make, have made, use, market, import, offer to sell, and sell, and to otherwise directly or indirectly distribute (a) Licensed Products that implement such OASIS Standards Final Deliverable, and (b) Licensed Products that implement any Final Maintenance Deliverable with respect to that OASIS Standards Final Deliverable. Such license need not extend to features of a Licensed Product that are not required to comply with the Normative Portions of such OASIS Standards Final Deliverable or Final Maintenance Deliverable. For the sake of clarity, the rights set forth above include the right to directly or indirectly authorize a third party to make unmodified
copies of the Licensees Licensed Products and to license (optionally under the third partys license) the Licensees Licensed Products, within the scope of, and subject to the terms of, the Obligated Partys license.

At the election of the Obligated Party, such license may include a term requiring the Licensee to grant a reciprocal license to its Essential Claims (if any) covering the same OASIS Standards Final Deliverable and any such Final Maintenance Deliverable. Such term may require the Licensee to grant licenses to all implementers of such deliverable. The Obligated Party may also include a term providing that such license may be suspended with respect to the Licensee if that Licensee first sues the Obligated Party for infringement by the Obligated Party of any of the Licensees Essential Claims covering the same OASIS Standards Final Deliverable and any such Final Maintenance Deliverable.

10.2.2 RF on RAND Terms

With TCs operating under the RF on RAND Terms IPR Mode, license
terms that are fair, reasonable, and non-discriminatory beyond those specifically mentioned in Section 10.2.1 may also be included, and such additional RAND terms are left to the Licensees and Obligated Parties involved.

10.2.3 RF on Limited Terms

With TCs operating under the RF on Limited Terms IPR Mode, Obligated Parties may not impose any further

conditions or restrictions beyond those specifically mentioned in Section 10.2.1 on the use of any technology or intellectual property rights, or other restrictions on behavior of the Licensee, but may include reasonable, customary terms relating to operation or maintenance of the license relationship, including the following: choice of law and dispute resolution.

10.3. Non-Assertion Mode TC Requirements

10.3.1. For an OASIS Standards Final Deliverable developed by a Non-Assertion Mode TC, and any Final Maintenance Deliverable with respect to that OASIS Standards Final Deliverable, each Obligated Party in such TC hereby makes the following
world-wide OASIS Non-Assertion Covenant.

Each Obligated Party in a Non-Assertion Mode TC irrevocably covenants that, subject to Section 10.3.2 and Section 11 of the OASIS IPR Policy, it will not assert any of its Essential Claims covered by its Contribution Obligations or Participation Obligations against any OASIS Party or third party for making, having made, using, marketing, importing, offering to sell, selling, and otherwise distributing Covered Products that implement an OASIS Standards Final Deliverable developed by that TC and Covered Products that implement any Final Maintenance Deliverable with respect to that OASIS Standards Final Deliverable.

10.3.2. The covenant described in Section 10.3.1 may be suspended or revoked by the Obligated Party with respect to any OASIS Party or third party if that OASIS Party or third party asserts an Essential Claim in a suit first brought against, or attempts in writing to assert an Essential Claim against, a Beneficiary with respect
to a Covered Product that implements the same OASIS Standards Final Deliverable or any such Final Maintenance Deliverable.

11. WITHDRAWAL AND TERMINATION

A TC Party may withdraw from a TC at any time by notifying the OASIS TC Administrator in writing of such decision to withdraw. Withdrawal shall be deemed effective when such written notice is sent.

11.1 Withdrawal from a Technical Committee

A TC Party that withdraws from an OASIS Technical Committee shall have Continuing Licensing or Non-Assertion Obligations based on its Contribution Obligations and Participation Obligations as follows:

A TC Party that has incurred neither a Contribution Obligation nor a Participation Obligation prior to withdrawal has no licensing or non-assertion obligations for OASIS Standards Final Deliverable(s) originating from that OASIS TC.
A TC Party that has incurred a Contribution Obligation prior to withdrawal continues to be subject to its Contribution Obligation.
A TC Party that has incurred a Participation
Obligation prior to withdrawal continues to be subject to its Participation Obligation but only with respect to OASIS Standards Draft Deliverable(s) approved more than seven (7) calendar days prior to its withdrawal.
11.2 Termination of an OASIS Membership

An OASIS Party that terminates its OASIS membership (voluntarily or involuntarily) is deemed to withdraw from all TCs in which that OASIS Party has TC Member(s) representing it, and such OASIS Party remains subject to Continuing Licensing or Non-Assertion Obligations for each such TC based on its Obligated Party status in that TC

on the date that its membership termination becomes effective.

12. LIMITATIONS OF LIABILITY

All OASIS Deliverables are provided as is, without warranty of any kind, express or implied, and OASIS, as well as all OASIS Parties and TC Members, expressly disclaim any warranty of merchantability, fitness for a particular or intended purpose, accuracy, completeness, non-infringement of third party rights, or any other warranty.

In no event shall OASIS or any of its constituent parts (including, but not limited to, the OASIS Board of Directors), be liable to any other person or entity for any loss of profits, loss of use, direct, indirect, incidental, consequential, punitive, or special damages, whether under contract, tort, warranty, or otherwise, arising in any way out of this Policy, whether or not such party had advance notice of the possibility of such damages.

In addition, except for grossly negligent or intentionally fraudulent acts, OASIS Parties and TC Members (or their representatives), shall not be liable to any other person or entity for any loss of profits, loss of use, direct, indirect, incidental, consequential, punitive, or special damages, whether under contract, tort, warranty, or otherwise, arising in any way out of this Policy, whether or not such party had advance notice of the possibility of such damages.

OASIS assumes no responsibility to compile, confirm, update or make public any assertions of Essential Claims or other intellectual property rights that might be infringed by an implementation of an OASIS Deliverable.

If OASIS at any time refers to any such assertions by any owner of such claims, OASIS takes no position as to the validity or invalidity of such assertions, or that all such assertions that have or may be made have been referred to.

13. GENERAL

13.1. By ratifying this document, OASIS warrants that it will not inhibit the traditional open and free access to OASIS documents for which license and right have been assigned or obtained according to the procedures set forth in this section. This warranty is perpetual and will not be revoked by OASIS or its successors or assigns as to any already adopted OASIS Standards Final Deliverable; provided, however, that neither OASIS nor its assigns shall be obligated to:

13.1.1. Perpetually maintain its existence; nor
13.1.2. Provide for the perpetual existence of a website or other public means of accessing OASIS Standards Final Deliverables; nor
13.1.3. Maintain the public availability of any given OASIS Standards Final Deliverable that has been retired or superseded, or which is no longer being actively utilized in the marketplace.
13.2. Where any copyrights, trademarks, patents, patent applications, or other proprietary rights are known, or claimed, with respect to any OASIS Deliverable and are formally brought to the attention of the OASIS TC Administrator, OASIS shall consider appropriate action, which may include disclosure of the existence of such rights, or claimed rights. The OASIS Technical Committee Process shall prescribe the method for providing this information.

13.2.1. OASIS disclaims any responsibility for identifying the existence of or for evaluating the applicability of any claimed copyrights, trademarks, patents, patent applications, or other rights, and will make no assurances on the validity or scope of any such rights.

13.2.2. Where the OASIS
TC Administrator is formally notified of rights, or claimed rights under Section 8.8 with respect to entities other than Obligated Parties, the OASIS President shall attempt to obtain from the claimant of such rights a written assurance that any Licensee will be able to obtain the right to utilize, use, and distribute the technology or works when implementing, using, or distributing technology based upon the specific OASIS Standards Final Deliverable (or, in the case of an OASIS Standards Draft Deliverable, that any Licensee will then be able to obtain such a right) under terms that are consistent with this Policy. All such information will be made available to the TC that produced such deliverable, but the failure to obtain such written assurance shall not prevent votes from being conducted, except that the OASIS TC Administrator may defer approval for a reasonable period of time where a delay may facilitate the obtaining of such assurances. The results will, however, be recorded
by the OASIS TC Administrator, and made available to the public. The OASIS Board of Directors may also direct that a summary of the results be included in any published OASIS Standards Final Deliverable.
13.2.3. Except for the rights expressly provided herein, neither OASIS nor any OASIS Party grants or receives, by implication, estoppel, or otherwise, any rights under any patents or other intellectual property rights of the OASIS Party, OASIS, any other OASIS Party, or any third party.
13.3. Solely for purposes of Section 365(n) of Title 11, United States Bankruptcy Code, and any equivalent law in any foreign jurisdiction, the promises under Section 10 will be treated as if they were a license and any OASIS Party or third-party may elect to retain its rights under this promise if Obligated Party, as a debtor in possession, or a bankruptcy trustee in a case under the United States Bankruptcy Code, rejects any obligations stated in Section 10.

14. Required Notice

14.1 Documents

Any OASIS
Deliverable shall include the following notices replacing [copyright year] with the year or range of years of publication (bracketed language, other than the date, need only appear in OASIS Standards Final Deliverable documents):

Copyright OASIS Open [copyright year]. All Rights Reserved.

All capitalized terms in the following text have the meanings assigned to them in the OASIS Intellectual Property Rights Policy (the OASIS IPR Policy). The full Policy may be found at the OASIS website: [http://www.oasis-open.org/policies-guidelines/ipr]

This document and translations of it may be copied and furnished to others, and derivative works that comment on or otherwise explain it or assist in its implementation may be prepared, copied, published, and distributed, in whole or in part, without restriction of any kind, provided that the above copyright notice and this section are included on all such copies and derivative works. However, this document itself may not be modified in any way,
including by removing the copyright notice or references to OASIS, except as needed for the purpose of developing any document or deliverable produced by an OASIS Technical Committee (in which case the rules applicable to copyrights, as set forth in the OASIS IPR Policy, must be followed) or as required to translate it into languages other than English.

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THE USE OF THE INFORMATION HEREIN WILL NOT INFRINGE ANY OWNERSHIP RIGHTS OR ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. OASIS AND ITS MEMBERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THIS DOCUMENT OR ANY PART THEREOF.

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1.4280 minipass 7.1.2

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1.4281 github.com/stefanberger/go-pkcs11uri 0.0.0-20230803200340-78284954bff6

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1.4282 py3-colorama 0.4.6-r5

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1.4283 py3-jmespath 1.0.1-r3

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1.4284 py3-ruamel.yaml 0.17.28-r1

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1.4285 py3-wcwidth 0.2.13-r1

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1.4286 py3-cparser 2.22-r1

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pycparser -- A C parser in Python

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1.4287 py3-dateutil 2.9.0-r1

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1.4288 py3-distro 1.9.0-r2

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1.4297 shadow-utils 4.6-22.el8

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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concluded that weaker conditions might promote sharing better.

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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========

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linking a ``work that uses the Library'' with the Library
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@enumerate a
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a copy of the
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@iftex
@heading END OF TERMS AND CONDITIONS
@end iftex

@ifinfo
@center END OF TERMS AND CONDITIONS
@end ifinfo

@page
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@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
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That's all there is to it!

1.4300 py3-dateutil-pyc 2.9.0-r1

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---
dateutil - Extensions to the standard Python datetime module.

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1.4301 py3-ruamel.yaml-pyc 0.17.28-r1

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1.4302 py3-wcwidth-pyc 0.2.13-r1

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1.4303 py3-cparser-pyc 2.22-r1

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pycparser -- A C parser in Python

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For more recent contributions, check out the "Contributors" page of the pycparser Github project.

The list is sorted in increasing alphabetic order by first name.

* Andreas Klckner
* Andrew de los Reyes
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* Dov Feldstern
* Even Wiik Thomassen
* Greg Smith
* Jaroslav Franek
* Li Xuan Ji
* Mateusz Czaplinski
* Paolo Di Maio
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1.4304 py3-six-pyc 1.16.0-r9

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1.4305 py3-distro-pyc 1.9.0-r2

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1.4306 py3-jmespath-pyc 1.0.1-r3

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1.4307 py3-colorama-pyc 0.4.6-r5

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1.4308 require-from-string 2.0.2

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1.4309 ajv-formats 2.1.1

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1.4310 google-uuid 1.6.0

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1.4311 gosqlite 1.14.22

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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```
//go:build go1.10
// +build go1.10

package pq

import (
 "context"
 "database/sql/driver"
```

```
)

// NoticeHandler returns the notice handler on the given connection, if any. A
// runtime panic occurs if c is not a pq connection. This is rarely used
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
 return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A
// runtime panic occurs if c is not a pq connection. A nil handler may be used
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and
// ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
 c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
//
 on it.
type NoticeHandlerConnector struct {
 driver.Connector
 noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
 c, err := n.Connector.Connect(ctx)
 if err == nil {
  SetNoticeHandler(c, n.noticeHandler)
 }
 return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  return c.noticeHandler
 }
 return nil
}
```

```
// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and
 setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  c.noticeHandler = handler
  return c
 }
 return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}
```

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Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.
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1.4315 google-golang-org-genproto 0.0.0-20240506185236-b8a5c65736ae

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Hsinchu City Hsinchu 30071
TW

0C-01-C8 (hex) DENSO Co.,Ltd
0C01C8 (base 16) DENSO Co.,Ltd
Twin21 MIDTower(24th
floor),2-1-61
Shiromi,Chuo-ku,Osaka-shi Osaka 540-6124
JP

F4-2E-48 (hex) zte corporation
F42E48 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

F8-D2-AC (hex) Vantiva USA LLC
F8D2AC (base 16) Vantiva USA LLC
4855 Peachtree Industrial Blvd, Suite 20
Norcross GA 30902
US

CC-F3-C8 (hex) Vantiva USA LLC
CCF3C8 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

60-FD-A6 (hex) Apple, Inc.
60FDA6 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

80-A9-97 (hex) Apple, Inc.
80A997 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

34-8C-5E (hex) Apple, Inc.
348C5E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-EE-7A (hex) Apple, Inc.
F0EE7A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

20-3A-EB
(hex) zte corporation
203AEB (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

58-76-B3 (hex) Ubee Interactive Co., Limited
5876B3 (base 16) Ubee Interactive Co., Limited
Flat/RM 1202, 12/F, AT Tower, 180 Electric Road
North Point 00000
HK

E8-70-72 (hex) Hangzhou BroadLink Technology Co.,Ltd
E87072 (base 16) Hangzhou BroadLink Technology Co.,Ltd
Room 101,1/F,Unit C,Building 1,No.57 Jiang'er Road,Changhe Street,Binjiang District,Hangzhou,Zhejiang,P.R.China
Hangzhou Zhejiang 310052
CN

40-F3-B0 (hex) Texas Instruments
40F3B0 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

14-9C-EF (hex) Texas Instruments
149CEF (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

14-98-7D (hex) Vantiva USA LLC
14987D (base 16) Vantiva USA LLC

5030 Sugarloaf Parkway Bldg 6
Lawrenceville
GA 30044
US

58-23-8C (hex) Vantiva USA LLC
58238C (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

80-B2-34 (hex) Vantiva USA LLC
80B234 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

84-17-EF (hex) Vantiva USA LLC
8417EF (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

A4-56-CC (hex) Vantiva USA LLC
A456CC (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

70-03-7E (hex) Vantiva USA LLC
70037E (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

44-1C-12 (hex) Vantiva USA LLC
441C12 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

48-1B-A4 (hex) Cisco Systems, Inc
481BA4 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose
CA 94568
US

58-AD-12 (hex) Apple, Inc.
58AD12 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

80-C4-1B (hex) Texas Instruments
80C41B (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

34-68-B5 (hex) Texas Instruments
3468B5 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

D0-B2-C4 (hex) Vantiva USA LLC
D0B2C4 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

80-C6-AB (hex) Vantiva USA LLC
80C6AB (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

CC-03-FA (hex) Vantiva USA LLC
CC03FA (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

48-F7-C0 (hex) Vantiva USA LLC
48F7C0 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

48-00-33 (hex) Vantiva USA LLC
480033
(base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

5C-76-95 (hex) Vantiva USA LLC
5C7695 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

38-3F-B3 (hex) Vantiva USA LLC
383FB3 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

64-12-36 (hex) Vantiva USA LLC
641236 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

AC-4C-A5 (hex) Vantiva USA LLC
AC4CA5 (base 16) Vantiva USA LLC
4855 Peachtree Industrial Blvd, Suite 20
Norcross GA 30902
US

00-CB-7A (hex) Vantiva USA LLC
00CB7A (base 16) Vantiva USA LLC
4855 Peachtree Industrial Blvd, Suite 20
Norcross GA 30902
US

B8-A7-5E (hex) Wuxi Xinjie Electric Co.,Ltd
B8A75E (base 16) Wuxi Xinjie Electric Co.,Ltd
No.9 Liu Tang Road, Hu Tai Industrial Park, Binhu District,
Wuxi
Jiangsu 320200
CN

8C-53-E6 (hex) Wistron Neweb Corporation
8C53E6 (base 16) Wistron Neweb Corporation
No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu R.O.C. 308
TW

34-5E-08 (hex) Roku, Inc
345E08 (base 16) Roku, Inc
1155 Coleman Ave
San Jose CA 95110

US

D8-77-66 (hex) Nurivoice Co., Ltd
D87766 (base 16) Nurivoice Co., Ltd
NURI Bld, 16 Sapyeong-daero
Seoul Seocho-gu 06552
KR

70-81-85 (hex) New H3C Technologies Co., Ltd
708185 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

0C-75-D2 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
0C75D2 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

D8-DA-F1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D8DAF1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan
523808
CN

54-44-3B (hex) HUAWEI TECHNOLOGIES CO.,LTD
54443B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

5C-70-75 (hex) HUAWEI TECHNOLOGIES CO.,LTD
5C7075 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C0-E9-11 (hex) RealNetworks
C0E911 (base 16) RealNetworks
1501 1st Ave S., #600
Seattle WA 98134
US

8C-3B-4A (hex) Universal Global Scientific Industrial Co., Ltd.
8C3B4A (base 16) Universal Global Scientific Industrial Co., Ltd.
141, Lane 351, Taiping Road, Sec.1,Tsao Tuen

Nan-Tou Taiwan 54261
TW

50-D3-3B (hex) cloudnineinfo
50D33B (base 16) cloudnineinfo
xiaoshan Wujin load #19
hangzhou zhejiang 311258
CN

84-C8-A0 (hex) Hui Zhou Gaoshengda Technology Co.,LTD
84C8A0 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.2,Jin-da
Road,Huinan Industrial Park
Hui Zhou Guangdong 516025
CN

58-C4-1E (hex) IEEE Registration Authority
58C41E (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

08-F0-1E (hex) eero inc.
08F01E (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

18-A5-FF (hex) Arcadyan Corporation
18A5FF (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

8C-1A-F3 (hex) Shenzhen Gooxi Information Security CO.,Ltd.
8C1AF3 (base 16) Shenzhen Gooxi Information Security CO.,Ltd.
A District,5th Floor,Block A3,Digital Technology Park,Gaoxin South 7th Road,District of High-tech Industrial Park,Nanshan District , Shenzhen, Guangdong Province
Shenzhen Guangdong 518100
CN

F4-B6-C6 (hex) Indra Heera Technology LLP
F4B6C6 (base 16) Indra Heera Technology LLP
Narayan Colony, Old Police Line, Arrah
Bhojpur Bihar 802301
IN

A0-02-A5

(hex) Intel Corporate
A002A5 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

8C-D5-4A (hex) TAIYO YUDEN CO.,LTD
8CD54A (base 16) TAIYO YUDEN CO.,LTD
8-1, Sakae-cho
Takasaki-shi Gunma 370-8522
JP

A8-8B-28 (hex) SHENZHEN DIYANG SMART TECHNOLOGY CO.,LTD.
A88B28 (base 16) SHENZHEN DIYANG SMART TECHNOLOGY CO.,LTD.
Room 202, Building 4, Research & Creation Valley High-tech Incubation Park, Gongming Street, Guangming District, Shenzhen(www.diyangsmart.com)
Shenzhen Guangdong 518107
CN

C8-70-23 (hex) Altice Labs S.A.
C87023 (base 16) Altice Labs S.A.
NIF 504705610, Rua Eng. José Ferreira Pinto Basto
Aveiro 3810-106
PT

70-98-83 (hex) SHENZHEN KAYAN ELECTRONICS., LTD.
709883 (base 16) SHENZHEN KAYAN ELECTRONICS., LTD.
ROOM 1801B1,HENGFANG TECHNOLOGY BUILDING, NO.4008,XINHU ROAD,YONGFENG COMMUNITY, BAO'AN DISTRICT,SHENZHEN
Shenzhen 518126
CN

74-5D-22
(hex) LCFC(HeFei) Electronics Technology co., ltd
745D22 (base 16) LCFC(HeFei) Electronics Technology co., ltd
No.3188-1,YunGu Road(Comprehensive Bonded Zone),Hefei Economic and Technological Development Area
HEFEI ANHUI 230601
CN

E8-80-88 (hex) LCFC(HeFei) Electronics Technology co., ltd
E88088 (base 16) LCFC(HeFei) Electronics Technology co., ltd
No.3188-1,YunGu Road(Comprehensive Bonded Zone),Hefei Economic and Technological Development Area
HEFEI ANHUI 230601
CN

C4-79-9F (hex) Haiguang Smart Device Co.,Ltd.
C4799F (base 16) Haiguang Smart Device Co.,Ltd.
Room 202,2nd.Floor,3rd.Building,Kuiqiao Road, No.2,Tangxia Town,Dongguan

Dongguan Guangdong 523000
CN

F4-3A-7B (hex) zte corporation
F43A7B (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

68-9E-29 (hex) zte corporation
689E29 (base 16) zte corporation
12/F.,zte
R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

6C-03-B5 (hex) Cisco Systems, Inc
6C03B5 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A8-91-62 (hex) Sophos Ltd
A89162 (base 16) Sophos Ltd
The Pentagon
Abingdon Oxfordshire OX14 3YP
GB

B8-6C-E0 (hex) Hewlett Packard Enterprise
B86CE0 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville 95747
US

E4-40-97 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
E44097 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

DC-B4-CA (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
DCB4CA (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

94-3B-B1 (hex) Kaon Group Co., Ltd.
943BB1 (base 16) Kaon Group Co., Ltd.

KAONMEDIA
Building 513-4
Sungnam-City Kyonggi-Do 463-839, KOREA
KR

44-F0-34 (hex) Kaon Group Co., Ltd.
44F034 (base 16) Kaon Group Co., Ltd.
884-3, Seongnam-daero, Bundang-gu
Seongnam-si Gyeonggi-do 13517
KR

50-16-F4 (hex) Motorola Mobility LLC, a Lenovo Company
5016F4 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

3C-08-CD (hex) Juniper Networks
3C08CD (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

88-8F-10 (hex) Shenzhen Max Infinite Technology Co.,Ltd.
888F10 (base 16) Shenzhen Max Infinite Technology Co.,Ltd.
Room 908 Building 2, Aviation&Space Building, No.53 Gaoxin South 9th Road, Gaoxin Community, Yuehai Street,Nanshan District, Shenzhen
Shenzhen Guangdong 518000
CN

68-50-5D (hex) Halo Technologies
68505D (base 16) Halo Technologies
15775 Gateway Cir
Tustin CA 92780
US

7C-6A-8A
(hex) SINOBONDER Technology Co., Ltd.
7C6A8A (base 16) SINOBONDER Technology Co., Ltd.
Building 1, No. 245, Guanchang Road, Dongcheng District
Dongguan Guangdong 523000
CN

90-EC-E3 (hex) Nokia
90ECE3 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

88-7B-2C (hex) zte corporation
887B2C (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

60-DB-EF (hex) Unify Software and Solutions GmbH & Co. KG
60DBEF (base 16) Unify Software and Solutions GmbH & Co. KG
Otto-Hahn-Ring 6
Munich 81739
DE

40-84-32 (hex) Microchip Technology Inc.
408432 (base 16) Microchip Technology Inc.
2355 W. Chandler Blvd.
Chandler AZ 85224
US

88-B5-FF (hex) Shenzhen iComm Semiconductor CO.,LTD
88B5FF (base 16) Shenzhen iComm Semiconductor CO.,LTD
Room 601,Block B ,Digital Building,Garden City
Shenzhen No.1079 Nanhai
Road,Nanshan District 518067
CN

84-28-59 (hex) Amazon Technologies Inc.
842859 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

AC-C0-48 (hex) OnePlus Technology (Shenzhen) Co., Ltd
ACC048 (base 16) OnePlus Technology (Shenzhen) Co., Ltd
18C02, 18C03, 18C04 ,18C05,TAIRAN BUILDING,
Shenzhen Guangdong 518000
CN

90-56-07 (hex) Sichuan AI-Link Technology Co., Ltd.
905607 (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou,Industrial Park
Anzhou,Industrial Park Sichuan 621000
CN

48-31-33 (hex) Robert Bosch Elektronika Kft.
483133 (base 16) Robert Bosch Elektronika Kft.
Robert Bosch út 1.
Hatvan 3000

HU

B8-AB-61 (hex) Cisco Meraki
B8AB61 (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco 94158
US

44-D5-C1 (hex) EM Microelectronic
44D5C1 (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

40-B7-FC
(hex) Phyplus Microelectronics Limited
40B7FC (base 16) Phyplus Microelectronics Limited
304 Building 1 No.608 Sheng Xia Road
Shanghai 200000
CN

68-2C-4F (hex) leerang corporation
682C4F (base 16) leerang corporation
#101,69, Jongam-ro 28-gil, Seongbuk-gu
seoul 02797
KR

FC-59-C0 (hex) Arista Networks
FC59C0 (base 16) Arista Networks
5453 Great America Parkway
Santa Clara CA 95054
US

64-1B-2F (hex) Samsung Electronics Co.,Ltd
641B2F (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

68-DD-B7 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
68DDB7 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

14-D8-64 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
14D864 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors

1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

B8-51-A9 (hex) Nokia
B851A9 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

D0-77-CE (hex) Edgecore Networks Corporation
D077CE (base 16) Edgecore Networks Corporation
1 Creation RD 3.
Hsinchu 30077
TW

EC-AF-F9 (hex) Hailo Technologies Ltd.
ECAFF9 (base 16) Hailo Technologies Ltd.
94 Yigal Alon
Tel Aviv 6789139
IL

60-15-2B (hex) Palo Alto Networks
60152B (base 16) Palo Alto Networks
3000 Tannery Way
Santa Clara CA 95054
US

28-EC-22 (hex) eero inc.
28EC22 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

40-D4-F6 (hex) Honor Device Co., Ltd.
40D4F6 (base 16) Honor Device Co., Ltd.
Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District
Shenzhen Guangdong 518040
CN

7C-31-80
(hex) SMK corporation
7C3180 (base 16) SMK corporation
6-5-5 Togoshi
Shinagawa 1428511
JP

78-2D-AD (hex) HUAWEI TECHNOLOGIES CO.,LTD
782DAD (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D0-61-58 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D06158 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

24-4B-F1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
244BF1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

44-D7-7E (hex) Robert Bosch GmbH
44D77E (base 16) Robert Bosch GmbH
Tuebinger Str. 123
Reutlingen 72762
DE

00-16-F6 (hex) Nevion
0016F6 (base 16) Nevion
Lysaker Torg 5
Lysaker NO-1366
NO

9C-73-B1 (hex) Samsung Electronics Co.,Ltd
9C73B1 (base 16) Samsung
Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

38-8A-06 (hex) Samsung Electronics Co.,Ltd
388A06 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B0-D8-88 (hex) Panasonic Automotive Systems Co.,Ltd
B0D888 (base 16) Panasonic Automotive Systems Co.,Ltd
5652
Matsumoto City Nagano 399-8730
JP

84-3E-1D (hex) Hui Zhou Gaoshengda Technology Co.,LTD
843E1D (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.2,Jin-da Road,Huinan Industrial Park
Hui Zhou Guangdong 516025
CN

40-ED-00 (hex) TP-Link Corporation Limited
40ED00 (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

90-88-55 (hex) Cisco Systems, Inc
908855 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

68-71-61 (hex) Cisco Systems, Inc
687161 (base
16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

88-3F-37 (hex) UHTEK CO., LTD.
883F37 (base 16) UHTEK CO., LTD.
403DONG 503HO, 655 PYEONGCHEON-RO
BUCHEONSI KYEONGGIDO 14502
KR

48-93-DC (hex) UNIWAY INFOCOM PVT LTD
4893DC (base 16) UNIWAY INFOCOM PVT LTD
BLOCK C 9 4 WAZIRPUR INDUSTRIAL AREA
NEW DELHI DELHI 110052
IN

5C-E6-88 (hex) VECOS Europe B.V.
5CE688 (base 16) VECOS Europe B.V.
ESP 237
Eindhoven Noord-Brabant 5633 AD
NL

D4-BA-FA (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
D4BAFA (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860

CN

00-80-B8 (hex) DMG MORI Digital Co., LTD
0080B8 (base 16) DMG MORI Digital Co., LTD
1-1-14 Techno park,
Shimonopporo, Atsubetsuku, Sapporo Hokkaido 004-0015
JP

28-73-F6 (hex) Amazon Technologies Inc.
2873F6 (base 16) Amazon Technologies
Inc.
P.O Box 8102
Reno NV 89507
US

C4-EB-FF (hex) zte corporation
C4EBFF (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

5C-28-86 (hex) Inventec(Chongqing) Corporation
5C2886 (base 16) Inventec(Chongqing) Corporation
No.66 West District 2nd Rd, Shapingba District
Chongqing Chongqing 401331
CN

20-15-82 (hex) Apple, Inc.
201582 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E0-CB-1D (hex) Amazon Technologies Inc.
E0CB1D (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

FC-84-A7 (hex) Murata Manufacturing Co., Ltd.
FC84A7 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

40-92-1A (hex) Apple, Inc.
40921A (base 16) Apple, Inc.
1 Infinite Loop

Cupertino CA 95014
US

10-E2-C9 (hex) Apple, Inc.
10E2C9
(base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

4C-EC-0F (hex) Cisco Systems, Inc
4CEC0F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

3C-CB-4D (hex) Avikus Co., Ltd
3CCB4D (base 16) Avikus Co., Ltd
11F, 70, Nonhyeon-ro 85-gil
Gangnam-gu Seoul 06234
KR

24-A4-2C (hex) NETIO products a.s.
24A42C (base 16) NETIO products a.s.
U Pily 3
Prague 143 00
CZ

70-2F-86 (hex) Marquardt GmbH
702F86 (base 16) Marquardt GmbH
Schloss-Strasse 16
Rietheim-Weilheim 78604
DE

A8-88-1F (hex) SERVERCOM (INDIA) PRIVATE LIMITED
A8881F (base 16) SERVERCOM (INDIA) PRIVATE LIMITED
E-43/1 OKHLA INDUSTRIAL AREA PHASE-II NEW DELHI SOUTH DELHI
NEW DELHI NA
IN

60-1B-52 (hex) Vodafone Italia S.p.A.
601B52 (base 16) Vodafone Italia S.p.A.
Via Lorenteggio nr. 240
Milan Italy 20147
IT

C0-8F-20 (hex) Shenzhen Skyworth Digital

Technology CO., Ltd
C08F20 (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

08-FF-24 (hex) Shenzhen Skyworth Digital Technology CO., Ltd
08FF24 (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

90-B6-7A (hex) Shenzhen Skyworth Digital Technology CO., Ltd
90B67A (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

24-9A-C8 (hex) Shenzhen Skyworth Digital Technology CO., Ltd
249AC8 (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

28-C0-1B (hex) Shenzhen Skyworth Digital Technology CO., Ltd
28C01B (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong
518057
CN

00-50-79 (hex) Private
005079 (base 16) Private

E0-28-B1 (hex) Shenzhen Skyworth Digital Technology CO., Ltd
E028B1 (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

30-31-80 (hex) Shenzhen Skyworth Digital Technology CO., Ltd
303180 (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

38-A8-51 (hex) Quickset Defense Technologies, LLC
38A851 (base 16) Quickset Defense Technologies, LLC

3650 Woodhead Drive
Northbrook IL 60062
US

04-36-B8 (hex) I&C Technology
0436B8 (base 16) I&C Technology
I&C Building, 24, Pangyo-ro 255beon-gil, Bundang-gu
Seongnam-si Gyeonggi-do 13486
KR

D0-43-1E (hex) Dell Inc.
D0431E (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

20-47-47 (hex) Dell Inc.
204747 (base 16) Dell Inc.
One
Dell Way
Round Rock TX 78682
US

F0-A0-B1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F0A0B1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

40-4F-42 (hex) HUAWEI TECHNOLOGIES CO.,LTD
404F42 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

30-86-F1 (hex) Fiberhome Telecommunication Technologies Co.,LTD
3086F1 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

84-7B-EB (hex) Dell Inc.
847BEB (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

98-90-96 (hex) Dell Inc.

989096 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

80-18-44 (hex) Dell Inc.
801844 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

98-40-BB (hex) Dell Inc.
9840BB
(base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

D4-81-D7 (hex) Dell Inc.
D481D7 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

00-B0-D0 (hex) Dell Inc.
00B0D0 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

00-19-B9 (hex) Dell Inc.
0019B9 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

00-1A-A0 (hex) Dell Inc.
001AA0 (base 16) Dell Inc.
One Dell Way, MS RR5-45
Round Rock 78682
US

00-25-64 (hex) Dell Inc.
002564 (base 16) Dell Inc.
One Dell Way, MS RR5-45
Round Rock 78682
US

A4-BA-DB (hex) Dell Inc.
A4BADB (base 16) Dell Inc.
One Dell Way, MS RR5-45
Round Rock 78682
US

00-1C-23 (hex) Dell Inc.
001C23 (base 16) Dell Inc.
One Dell Way, MS RR5-45
Round Rock 78682
US

11-00-AA (hex) Private
1100AA (base 16) Private

9C-93-E4 (hex) Private
9C93E4 (base 16) Private

78-2B-CB
(hex) Dell Inc.
782BCB (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

14-FE-B5 (hex) Dell Inc.
14FEB5 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

18-03-73 (hex) Dell Inc.
180373 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

74-86-7A (hex) Dell Inc.
74867A (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

A4-1F-72 (hex) Dell Inc.
A41F72 (base 16) Dell Inc.
One Dell way
Round Rock 78682
US

00-C0-4F (hex) Dell Inc.
00C04F (base 16) Dell Inc.
1807 WEST BRAKER LANE-BLDG.
AUSTIN TX 78758-3610
US

00-0B-DB (hex) Dell Inc.
000BDB (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

00-12-3F (hex) Dell Inc.
00123F (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

00-CB-00 (hex) Private
00CB00 (base 16) Private

44-20-63 (hex) Continental Automotive
Technologies GmbH
442063 (base 16) Continental Automotive Technologies GmbH
Siemensstr. 12
Regensburg 93055
DE

58-10-31 (hex) Hon Hai Precision IND.CO.,LTD
581031 (base 16) Hon Hai Precision IND.CO.,LTD
No. 66 Chung Shan Road TU-Cheng Industrial district TAIPEI TAIWAN
TAIPEI TAIWAN 33859
CN

54-BF-64 (hex) Dell Inc.
54BF64 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

CC-C5-E5 (hex) Dell Inc.
CCC5E5 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

4C-D9-8F (hex) Dell Inc.

4CD98F (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

DC-F4-01 (hex) Dell Inc.
DCF401 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

6C-2B-59 (hex) Dell Inc.
6C2B59 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

C8-F7-50 (hex) Dell Inc.
C8F750 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

48-5A-0D
(hex) Juniper Networks
485A0D (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

D0-8E-79 (hex) Dell Inc.
D08E79 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

B4-45-06 (hex) Dell Inc.
B44506 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

04-BF-1B (hex) Dell Inc.
04BF1B (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

F8-0D-A9 (hex) Zyxel Communications Corporation
F80DA9 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

98-E7-43 (hex) Dell Inc.
98E743 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

18-5A-58 (hex) Dell Inc.
185A58 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

E0-D8-48 (hex) Dell Inc.
E0D848 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

AC-91-9B (hex) Wistron
Neweb Corporation
AC919B (base 16) Wistron Neweb Corporation
No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu R.O.C. 308
TW

E0-3C-1C (hex) IEEE Registration Authority
E03C1C (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

00-09-93 (hex) Visteon Corporation
000993 (base 16) Visteon Corporation
16630 Southfield Road
Allen Park Michigan 48101
US

EC-41-CA (hex) Shenzhen TecAnswer Technology co.,ltd
EC41CA (base 16) Shenzhen TecAnswer Technology co.,ltd
1004 yuemeite Building,No.1 gaoxin South 7th Road,Gaoxin District,Yuehai Street,Nanshan District,Shenzhen
Shenzhen Guangdong 518063
CN

14-84-77 (hex) New H3C Technologies Co., Ltd
148477 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

14-96-2D (hex) New H3C Technologies Co., Ltd
14962D (base 16) New H3C Technologies Co., Ltd
466
Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

C4-A6-4E (hex) Quectel Wireless Solutions Co.,Ltd.
C4A64E (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

D8-58-C6 (hex) Katch Asset Tracking Pty Limited
D858C6 (base 16) Katch Asset Tracking Pty Limited
98 Riley St
Darlinghurst NSW 2010
AU

2C-C6-A0 (hex) Lumacron Technology Ltd.
2CC6A0 (base 16) Lumacron Technology Ltd.
4 Pitreavie Court, Pitreavie Business Park
Dunfermline Fife KY11 8UU
GB

70-66-B9 (hex) Huawei Device Co., Ltd.
7066B9 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C4-A1-AE (hex) Huawei Device Co., Ltd.
C4A1AE (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

48-6F-33 (hex) KYUNGWOO.SYSTEM,
INC.
486F33 (base 16) KYUNGWOO.SYSTEM, INC.
68, Digital-ro 9-gil, Geumcheon-gu, Seoul, Republic of Korea

Seoul 08512
KR

08-61-95 (hex) Rockwell Automation
086195 (base 16) Rockwell Automation
1 Allen-Bradley Dr.
Mayfield Heights OH 44124-6118
US

24-BB-C9 (hex) Shenzhen SuperElectron Technology Co.,Ltd.
24BBC9 (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen Guangdong 518000
CN

00-00-BC (hex) Rockwell Automation
0000BC (base 16) Rockwell Automation
1 Allen-Bradley Dr.
Mayfield Heights OH 44124-6118
US

FC-D7-49 (hex) Amazon Technologies Inc.
FCD749 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

2C-96-82 (hex) MitraStar Technology Corp.
2C9682 (base 16) MitraStar Technology Corp.
No. 6, Innovation Road II,
Hsinchu 300
TW

A8-71-16
(hex) Earda Technologies co Ltd
A87116 (base 16) Earda Technologies co Ltd
Block A,Lianfeng Creative Park, #2 Jisheng Rd., Nansha District
Guangzhou Guangdong 511455
CN

E8-EB-DD (hex) Guangzhou Qingying Acoustics Technology Co., Ltd
E8EBDD (base 16) Guangzhou Qingying Acoustics Technology Co., Ltd
Room 905, 863 Industrialization Promotion Center, Guangzhou Private Science Park, Taihe Town, Baiyun District
Guangzhou Guangdong 510000
CN

54-8C-81 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
548C81 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.

No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

24-48-45 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
244845 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

00-50-CA (hex) DZS Inc.
0050CA (base 16) DZS Inc.
680 CENTRAL AVENUE - STE. #301
DOVER NH 03820
US

74-EE-8D
(hex) Apollo Intelligent Connectivity (Beijing) Technology Co., Ltd.
74EE8D (base 16) Apollo Intelligent Connectivity (Beijing) Technology Co., Ltd.
Baidu Technology Park Building No.2 No.10 Xibeiwang East Road Haidian District
BeiJing BeiJing 100193
CN

00-03-51 (hex) Diebold Nixdorf
000351 (base 16) Diebold Nixdorf
5995 Mayfair Road
North Canton OH 44720
US

F0-9F-C2 (hex) Ubiquiti Inc
F09FC2 (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

80-2A-A8 (hex) Ubiquiti Inc
802AA8 (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

EC-C8-9C (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
ECC89C (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

8C-E7-48 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.

8CE748 (base 16) Hangzhou
Hikvision Digital Technology Co.,Ltd.
No.469,Jianghui Road
Hangzhou Zhejiang 310052
CN

24-28-FD (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
2428FD (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

AC-B9-2F (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
ACB92F (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

D4-E8-53 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
D4E853 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

24-0F-9B (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
240F9B (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

C0-6D-ED (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
C06DED (base 16) Hangzhou Hikvision Digital
Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

24-32-AE (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
2432AE (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

E0-BA-AD (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
E0BAAD (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

E0-CA-3C (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
E0CA3C (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

DC-07-F8 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
DC07F8 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

64-DB-8B (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
64DB8B (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555
Qianmo Road
Hangzhou Zhejiang 310052
CN

94-E1-AC (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
94E1AC (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

58-03-FB (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
5803FB (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

44-47-CC (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
4447CC (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

98-DF-82 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
98DF82 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

78-8A-20 (hex) Ubiquiti Inc
788A20 (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017

US

74-83-C2
(hex) Ubiquiti Inc
7483C2 (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

E0-63-DA (hex) Ubiquiti Inc
E063DA (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

24-5A-4C (hex) Ubiquiti Inc
245A4C (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

60-22-32 (hex) Ubiquiti Inc
602232 (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

E4-38-83 (hex) Ubiquiti Inc
E43883 (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

C0-56-E3 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
C056E3 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.469,Jianghui Road
Hangzhou Zhejiang 310052
CN

BC-AD-28 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
BCAD28 (base 16) Hangzhou
Hikvision Digital Technology Co.,Ltd.
No.469,Jianghui Road
Hangzhou Zhejiang 310052
CN

88-B6-BD (hex) Flaircomm Microelectronics, Inc.
88B6BD (base 16) Flaircomm Microelectronics, Inc.

7F, Guomai Building, Guomai Science and Technology Park,116 Jiangbin East Avenue, Mawei District
Fuzhou Fujian 350015
CN

BC-49-B2 (hex) SHENZHEN ALONG COMMUNICATION TECH CO., LTD
BC49B2 (base 16) SHENZHEN ALONG COMMUNICATION TECH CO., LTD
Room1301,ZHENYEInternationalBusinessCenter,QIANHAIRoad,NANSHAN District,SHENZHEN,PRCTEL
SHENZHEN 518000
CN

94-97-AE (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
9497AE (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

0C-BD-75 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
0CBD75 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

AC-90-73
(hex) HUAWEI TECHNOLOGIES CO.,LTD
AC9073 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

FC-1D-3A (hex) HUAWEI TECHNOLOGIES CO.,LTD
FC1D3A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E4-BE-FB (hex) HUAWEI TECHNOLOGIES CO.,LTD
E4BEFB (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

58-F8-D7 (hex) HUAWEI TECHNOLOGIES CO.,LTD
58F8D7 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

40-A6-77 (hex) Juniper Networks

40A677 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

D8-18-D3 (hex) Juniper Networks
D818D3 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale
CA 94089
US

F0-4B-3A (hex) Juniper Networks
F04B3A (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

C0-42-D0 (hex) Juniper Networks
C042D0 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

00-1B-C0 (hex) Juniper Networks
001BC0 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

44-EC-CE (hex) Juniper Networks
44ECCE (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

CC-E1-94 (hex) Juniper Networks
CCE194 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

78-8C-B5 (hex) TP-Link Corporation Limited
788CB5 (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

28-8A-1C (hex) Juniper Networks
288A1C (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale
CA 94089
US

84-B5-9C (hex) Juniper Networks
84B59C (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

5C-45-27 (hex) Juniper Networks
5C4527 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

EC-3E-F7 (hex) Juniper Networks
EC3EF7 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

20-4E-71 (hex) Juniper Networks
204E71 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

D4-04-FF (hex) Juniper Networks
D404FF (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

00-21-59 (hex) Juniper Networks
002159 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

00-23-9C (hex) Juniper Networks
00239C (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

50-C5-8D (hex) Juniper Networks
50C58D (base 16) Juniper
Networks
1133 Innovation Way
Sunnyvale CA 94089
US

28-C0-DA (hex) Juniper Networks
28C0DA (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

84-C1-C1 (hex) Juniper Networks
84C1C1 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

7C-E2-CA (hex) Juniper Networks
7CE2CA (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

48-81-4E (hex) E&M SOLUTION CO,.Ltd
48814E (base 16) E&M SOLUTION CO,.Ltd
#813-ho, 555, Byeolmang-ro
Ansan-si Danwon-gu 15434
KR

7C-4D-8F (hex) HP Inc.
7C4D8F (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

9C-CB-F7 (hex) CLOUD STAR TECHNOLOGY CO., LTD.
9CCBF7 (base 16) CLOUD STAR TECHNOLOGY CO., LTD.
13F.-1, No. 167, Wenqing Rd Guishan Dist
Taoyuan City Taoyuan 333613
TW

74-D5-58 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
74D558 (base 16) GUANGDONG
OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,

DONG GUAN GUANG DONG 523860
CN

B8-EA-98 (hex) Xiaomi Communications Co Ltd
B8EA98 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

10-C4-CA (hex) HUMAX Co., Ltd.
10C4CA (base 16) HUMAX Co., Ltd.
HUMAX Village, 216, Hwangsaeul-ro, Bu
Seongnam-si Gyeonggi-do 463-875
KR

F4-64-12 (hex) Sony Interactive Entertainment Inc.
F46412 (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

3C-F9-F0 (hex) zte corporation
3CF9F0 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

68-77-DA (hex) zte corporation
6877DA (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

88-58-BE
(hex) kuosheng.com
8858BE (base 16) kuosheng.com
Room 103, Building 15 of Headquarters Center, No. 555, North Panyu Ave
Guangzhou Guangdong 511493
CN

E4-5D-37 (hex) Juniper Networks
E45D37 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

94-F7-AD (hex) Juniper Networks
94F7AD (base 16) Juniper Networks

1133 Innovation Way
Sunnyvale CA 94089
US

78-4F-9B (hex) Juniper Networks
784F9B (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

88-D9-8F (hex) Juniper Networks
88D98F (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

78-50-7C (hex) Juniper Networks
78507C (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

F0-7C-C7 (hex) Juniper Networks
F07CC7 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

AC-80-0A (hex) Sony Corporation
AC800A
(base 16) Sony Corporation
Sony City Osaki 2-10-1
Shinagawa-ku Tokyo 141-8610
JP

58-C9-35 (hex) Chiun Mai Communication System, Inc
58C935 (base 16) Chiun Mai Communication System, Inc
No.4, Minsheng St., Tucheng District
New Taipei City 23678
TW

E0-30-F9 (hex) Juniper Networks
E030F9 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

4C-73-4F (hex) Juniper Networks

4C734F (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

D4-5A-3F (hex) Juniper Networks
D45A3F (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

04-69-8F (hex) Juniper Networks
04698F (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

00-05-85 (hex) Juniper Networks
000585 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

88-90-09 (hex) Juniper Networks
889009 (base
16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

00-CC-34 (hex) Juniper Networks
00CC34 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

1C-3B-62 (hex) HMD Global Oy
1C3B62 (base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo 02600
FI

A4-A5-28 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
A4A528 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

E8-78-EE (hex) New H3C Technologies Co., Ltd
E878EE (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

EC-A7-AD (hex) Barrot Technology Co.,Ltd.
ECA7AD (base 16) Barrot Technology Co.,Ltd.
A1009,Block A,Jia Hua Building,No.9 Shangdi 3rd Street,Haidian District,Beijing
beijing beijing 100000
CN

00-30-2B (hex) Inalp Solutions AG
00302B
(base 16) Inalp Solutions AG
Badenerstrasse 13
Brugg 5200
CH

74-73-B4 (hex) Apple, Inc.
7473B4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A4-FC-14 (hex) Apple, Inc.
A4FC14 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A8-1A-F1 (hex) Apple, Inc.
A81AF1 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

70-58-46 (hex) Trig Avionics Limited
705846 (base 16) Trig Avionics Limited
Heriot Watt Research Park
Edinburgh EH14 4AP
GB

08-91-A3 (hex) Amazon Technologies Inc.
0891A3 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

0C-D9-23 (hex) GOCLOUD Networks(GAOKE Networks)
0CD923 (base 16) GOCLOUD Networks(GAOKE Networks)
Room 5-301-A02, No. 3000, Longdong Road
Pudong Shanghai 201203
CN

44-DB-D2 (hex) YEALINK(XIAMEN) NETWORK TECHNOLOGY CO.,LTD.
44DBD2 (base 16) YEALINK(XIAMEN)
NETWORK TECHNOLOGY CO.,LTD.
309, 3th Floor, No.16, Yun Ding North Road, Huli District
xiamen Fujian 361015
CN

F0-74-8D (hex) Ruijie Networks Co.,LTD
F0748D (base 16) Ruijie Networks Co.,LTD
No. 2, 7th floor, xingwangruijie, haixi hi-tech industrial park, high-tech zone, fuzhou city
Fuzhou Fujian 350002
CN

CC-08-FA (hex) Apple, Inc.
CC08FA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

90-9B-6F (hex) Apple, Inc.
909B6F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E0-DC-A0 (hex) Siemens Industrial Automation Products Ltd., Chengdu
E0DCA0 (base 16) Siemens Industrial Automation Products Ltd., Chengdu
Tianyuan Road 99
Cheng Du Si Chuan 611731
CN

9C-DB-AF (hex) HUAWEI TECHNOLOGIES CO.,LTD
9CDBAF (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

0C-2E-57 (hex) HUAWEI
TECHNOLOGIES CO.,LTD
0C2E57 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park

Dongguan 523808
CN

E8-D7-75 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E8D775 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

84-39-8F (hex) Fortinet, Inc.
84398F (base 16) Fortinet, Inc.
899 Kifer Road
Sunnyvale 94086
US

B4-ED-D5 (hex) Quectel Wireless Solutions Co.,Ltd.
B4EDD5 (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

5C-64-F1 (hex) Cisco Systems, Inc
5C64F1 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

90-B4-DD (hex) Private
90B4DD (base 16) Private

B8-38-EF (hex) ADVA Optical Networking Ltd.
B838EF (base 16) ADVA Optical Networking Ltd.
ADVAntage House
York
YO30 4RY
GB

64-EC-65 (hex) vivo Mobile Communication Co., Ltd.
64EC65 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

F4-24-62 (hex) Selcom Electronics (Shanghai) Co., Ltd
F42462 (base 16) Selcom Electronics (Shanghai) Co., Ltd
A7/A24 No.5399, Waiqingsong Road, Qing Pu
Shanghai Shanghai 201707
CN

F4-A1-7F (hex) Marquardt Electronics Technology (Shanghai) Co.Ltd
F4A17F (base 16) Marquardt Electronics Technology (Shanghai) Co.Ltd
No. 650 Qingda Road, Heqing Industrial Zone, Shanghai
Shanghai 201201
CN

48-BC-E1 (hex) Samsung Electronics Co.,Ltd
48BCE1 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F8-3C-80 (hex) MITSUMI ELECTRIC CO.,LTD.
F83C80 (base 16) MITSUMI ELECTRIC CO.,LTD.
2-11-2, Tsurumaki
Tama-shi Tokyo 206-8567
JP

D8-3A-DD (hex) Raspberry Pi Trading Ltd
D83ADD
(base 16) Raspberry Pi Trading Ltd
Maurice Wilkes Building, Cowley Road
Cambridge CB4 0DS
GB

70-F8-AE (hex) Microsoft Corporation
70F8AE (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

00-0F-2A (hex) Cableware Electronics
000F2A (base 16) Cableware Electronics
1702 Western Ave.
Las Vegas Nevada 89102
US

2C-D1-C6 (hex) Murata Manufacturing Co., Ltd.
2CD1C6 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

08-42-18 (hex) Asyril SA
084218 (base 16) Asyril SA
Z.I. du Vivier 22
Villaz-St-Pierre Fribourg 1690

CH

D8-5B-22 (hex) Shenzhen Hohunet Technology Co., Ltd
D85B22 (base 16) Shenzhen Hohunet Technology Co., Ltd
8th floor, block a, Huahan technology building, No.16, Langshan Road, North District, Science Park, Nanshan District, Shenzhen
Shenzhen Gongdong 518000
CN

8C-79-09 (hex) Aruba,
a Hewlett Packard Enterprise Company
8C7909 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

D0-D0-03 (hex) Samsung Electronics Co.,Ltd
D0D003 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

5C-76-D5 (hex) Nokia
5C76D5 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

8C-7A-00 (hex) Nokia
8C7A00 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

B8-5C-EE (hex) Baidu Online Network Technology (Beijing) Co., Ltd
B85CEE (base 16) Baidu Online Network Technology (Beijing) Co., Ltd
Baidu Campus, No.10 Shangdi 10th Street, Haidian District
Beijing 100085
CN

28-B5-E8 (hex) Texas Instruments
28B5E8 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

08-C3-B3 (hex) TCL King Electrical Appliances(Huizhou)Co.,Ltd
08C3B3 (base 16) TCL

King Electrical Appliances(Huizhou)Co.,Ltd
B Area, 10th floor, TCL multimedia Building, TCL International E City, #1001 Zhonshanyuan road,Shenzhen
guangdong China 518058
CN

20-45-69 (hex) ITEL MOBILE LIMITED
204569 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

D4-63-52 (hex) Vutility Inc.
D46352 (base 16) Vutility Inc.
126 W Sego Lily Ste 150
Sandy UT 84070
US

50-5A-65 (hex) AzureWave Technology Inc.
505A65 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd., Xindian Dist.
New Taipei City 23144
TW

C4-A5-59 (hex) IEEE Registration Authority
C4A559 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

BC-64-D9 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
BC64D9 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN
ROAD,
DONG GUAN GUANG DONG 523860
CN

2C-AB-33 (hex) Texas Instruments
2CAB33 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

DC-AC-6F (hex) Everytale Inc
DCAC6F (base 16) Everytale Inc
2093 Philadelphia Pike #2211
Claymont DE 19703
US

F4-15-32 (hex) PETAiO (NanJing), Inc.
F41532 (base 16) PETAiO (NanJing), Inc.
17 / F, block A, Weien building, No. 73 Huachuang Road, Yan Chuang Park, Jiang Bei New Area
Nanjing Jiangsu 211800
CN

30-1F-48 (hex) zte corporation
301F48 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

7C-C7-4A (hex) Fiberhome Telecommunication Technologies Co.,LTD
7CC74A (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

38-FC-34 (hex) Huawei Device Co., Ltd.
38FC34 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng
Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

3C-F6-92 (hex) Huawei Device Co., Ltd.
3CF692 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

94-0E-E7 (hex) HUAWEI TECHNOLOGIES CO.,LTD
940EE7 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A8-B2-71 (hex) HUAWEI TECHNOLOGIES CO.,LTD
A8B271 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

64-05-E4 (hex) ALPSALPINE CO,.LTD
6405E4 (base 16) ALPSALPINE CO,.LTD
nishida 6-1
kakuda-City Miyagi-Pref 981-1595
JP

6C-0C-9A (hex) Amazon Technologies Inc.
6C0C9A (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

CC-00-F1 (hex) Sagemcom Broadband SAS
CC00F1 (base 16) Sagemcom Broadband SAS
250, route de
l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

30-82-16 (hex) Apple, Inc.
308216 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C4-A0-52 (hex) Motorola Mobility LLC, a Lenovo Company
C4A052 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

84-90-0A (hex) Arcadyan Corporation
84900A (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

78-76-89 (hex) eero inc.
787689 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

48-77-06 (hex) NXP Semiconductor (Tianjin) LTD.
487706 (base 16) NXP Semiconductor (Tianjin) LTD.
No.15 Xinghua Avenue, Xiqing Economic Development Area
Tianjin 300385
CN

0C-CC-47 (hex) IEEE Registration Authority
0CCC47 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554

US

5C-3E-06 (hex) Cisco
Systems, Inc
5C3E06 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

C8-28-E5 (hex) Cisco Systems, Inc
C828E5 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

8C-D0-B2 (hex) Beijing Xiaomi Mobile Software Co., Ltd
8CD0B2 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

B0-FC-88 (hex) Sagemcom Broadband SAS
B0FC88 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

34-87-3D (hex) Quectel Wireless Solutions Co.,Ltd.
34873D (base 16) Quectel Wireless Solutions Co.,Ltd.
RM501,Building 13,No.99 TianZhou Road,Xuhui District,Shanghai,China
Shanghai Shanghai 200233
CN

C4-41-37 (hex) Quectel Wireless Solutions Co.,Ltd.
C44137 (base 16) Quectel Wireless Solutions Co.,Ltd.
7th
Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

D8-21-DA (hex) SERNET (SUZHOU) TECHNOLOGIES CORPORATION
D821DA (base 16) SERNET (SUZHOU) TECHNOLOGIES CORPORATION
NO.8 Tangzhuang Road,Suzhou Industrial Park,Su ZhouCity,JiangSu Province,China
Suzhou 215021
CN

08-F1-B3 (hex) Cisco Meraki
08F1B3 (base 16) Cisco Meraki

500 Terry A. Francois Blvd
San Francisco 94158
US

BC-E8-FA (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
BCE8FA (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

10-D6-80 (hex) Tendyron Corporation
10D680 (base 16) Tendyron Corporation
Tendyron Building,Zhongguancun NO.1 Park,Beiqing Road,Haidian District,Beijing,China
Beijing 100000
CN

78-49-46 (hex) Cambridge Mobile Telematics, Inc.
784946 (base 16) Cambridge Mobile Telematics, Inc.
One Broadway, 14th
Floor
Cambridge MA 02142
US

F4-1A-9C (hex) Xiaomi Communications Co Ltd
F41A9C (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

00-3E-73 (hex) Mist Systems, Inc.
003E73 (base 16) Mist Systems, Inc.
1601 South De Anza Blvd, Suite 248
Cupertino CA 95014
US

0C-FC-18 (hex) HUAWEI TECHNOLOGIES CO.,LTD
0CFC18 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

80-76-C2 (hex) GD Midea Air-Conditioning Equipment Co.,Ltd.
8076C2 (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
Midea Global Innovation Center,Beijiao Town,Shunde
Foshan Guangdong 528311
CN

F0-4A-3D (hex) Bosch Thermotechnik GmbH

F04A3D (base 16) Bosch Thermotechnik GmbH
Sophienstraße 30-32
Wetzlar 35576
DE

94-1F-A2 (hex) Wuhan YuXin Semiconductor Co., Ltd.
941FA2
(base 16) Wuhan YuXin Semiconductor Co., Ltd.
15F Haida Innovation Plaza, No. 66 of Chuangye Road, Donghu New Technology Development Zone
Wuhan Hubei 430074
CN

6C-D1-99 (hex) vivo Mobile Communication Co., Ltd.
6CD199 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

A0-A0-01 (hex) Aruba, a Hewlett Packard Enterprise Company
A0A001 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

B4-9D-FD (hex) Shenzhen SDMC Technology CO.,Ltd.
B49DFD (base 16) Shenzhen SDMC Technology CO.,Ltd.
Room 1022, Floor 10, Building A, Customs Building, No. 2, Xin'an 3rd Road, Dalang Community, Xin'an Street, Bao'an District
Shenzhen GUANGDONG 518101
CN

80-AB-4D (hex) Nokia Solutions and Networks GmbH & Co. KG
80AB4D (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria
D-81541
DE

4C-BA-7D (hex) Gemtek Technology Co., Ltd.
4CBA7D (base 16) Gemtek Technology Co., Ltd.
No.15-1 Zhonghua Road
Hukou Hsinchu 30352
TW

00-1A-EB (hex) Allied Telesis K.K.
001AEB (base 16) Allied Telesis K.K.
No.2 TOC Bldg.
Shinagawa-ku Tokyo 141-0031

JP

DC-06-82 (hex) Accessia Technology Ltd.
DC0682 (base 16) Accessia Technology Ltd.
Boundary House, Cricket Field Rd
Uxbridge UB8 1QG
GB

44-D2-67 (hex) Snorble
44D267 (base 16) Snorble
PO Box 40
Skillman NJ 08558
US

B0-BC-7A (hex) Harman/Becker Automotive Systems GmbH
B0BC7A (base 16) Harman/Becker Automotive Systems GmbH
Becker-Göring-Straße 16
Karlsbad Baden-Württemberg 76307
DE

F0-22-1D (hex) IEEE Registration Authority
F0221D (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

9C-54-40 (hex) ChengDu TD Tech
9C5440 (base 16) ChengDu TD Tech
C3 floor, software
park, No. 219, Tianhua Second Road
Chengdu Tianfu Avenue, high tech Zone 610041
CN

50-26-EF (hex) Murata Manufacturing Co., Ltd.
5026EF (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

74-05-7C (hex) Qorvo International Pte. Ltd.
74057C (base 16) Qorvo International Pte. Ltd.
1 Changi Business Park Avenue 1
#04-01 486058
SG

D0-40-BE (hex) NPO RPS LLC
D040BE (base 16) NPO RPS LLC
Internal territory of the urban settlement of Mosrentgen, the settlement of the Mosrentgen factory, building 1/10,

office 206
Moscow 108820
RU

F4-4D-AD (hex) Cable Matters Inc.
F44DAD (base 16) Cable Matters Inc.
153 Northboro Road, Suite 5
Southborough MA 01772
US

FC-33-57 (hex) KAGA FEI Co., Ltd.
FC3357 (base 16) KAGA FEI Co., Ltd.
100-45, Shinyokohama 2-Chome
Kohoku-Ku Yokohama-Shi Kanagawa 222-8508
JP

50-02-38 (hex) Nokia Shanghai
Bell Co., Ltd.
500238 (base 16) Nokia Shanghai Bell Co., Ltd.
No.388 Ning Qiao Road,Jin Qiao Pudong Shanghai
Shanghai 201206
CN

AC-AD-4B (hex) zte corporation
ACAD4B (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

A8-16-9D (hex) Hui Zhou Gaoshengda Technology Co.,LTD
A8169D (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.2,Jin-da Road,Huinan Industrial Park
Hui Zhou Guangdong 516025
CN

44-49-88 (hex) Intel Corporate
444988 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

FC-91-89 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
FC9189 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

F8-F0-C5 (hex) Suzhou Kuhan Information Technologies Co.,Ltd.

F8F0C5 (base 16) Suzhou Kuhan Information
Technologies Co.,Ltd.
4F?A5F, SISPARK Building 17, Industrial Park District, Suzhou
Suzhou Jiangsu 215028
CN

F8-DE-73 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F8DE73 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

EC-1A-02 (hex) HUAWEI TECHNOLOGIES CO.,LTD
EC1A02 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

1C-1A-1B (hex) Shanghai Sunmi Technology Co.,Ltd.
1C1A1B (base 16) Shanghai Sunmi Technology Co.,Ltd.
Room 505, No.388 Song Hu Road, Yang Pu District, Shanghai, China
Shanghai Shanghai 200433
CN

80-38-D4 (hex) Fibercentury Network Technology Co.,Ltd.
8038D4 (base 16) Fibercentury Network Technology Co.,Ltd.
No. 1515 and No. 1516, floor 15, unit 2, building 2, Section 1, Huayang Huafu Avenue, Tianfu new area
Chengdu Sichuan 610000
CN

7C-29-6F
(hex) Apple, Inc.
7C296F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

40-ED-CF (hex) Apple, Inc.
40EDCF (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

8C-98-6B (hex) Apple, Inc.
8C986B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

1C-86-82 (hex) Apple, Inc.
1C8682 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

80-54-E3 (hex) Apple, Inc.
8054E3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

10-2E-00 (hex) Intel Corporate
102E00 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

20-3A-43 (hex) Intel Corporate
203A43 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

3C-3B-99 (hex) ITEL MOBILE LIMITED
3C3B99 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD,
YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

D0-09-C8 (hex) Cisco Systems, Inc
D009C8 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

D0-39-57 (hex) Liteon Technology Corporation
D03957 (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

48-E7-29 (hex) Espressif Inc.
48E729 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203

CN

E8-BA-E2 (hex) Xplora Technologies AS
E8BAE2 (base 16) Xplora Technologies AS
Nedre Slottsgate 8
Oslo 0157
NO

5C-A0-6C (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
5CA06C (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

A8-3B-76 (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
A83B76 (base 16) CLOUD
NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

9C-DE-4D (hex) ML vision Co.,LTD
9CDE4D (base 16) ML vision Co.,LTD
#503, 403-dong, Bucheon Techno Park, 655, Pyeongcheon-ro
Bucheon-si Gyeonggi-do 14502
KR

20-31-8D (hex) Giax GmbH
20318D (base 16) Giax GmbH
Am Weichselgarten 7
Erlangen 91058
DE

3C-B0-7E (hex) Arounds Intelligent Equipment Co., Ltd.
3CB07E (base 16) Arounds Intelligent Equipment Co., Ltd.
Room 701~703,Vanke Huamao Plaza? No.508, East 2nd Section, 2ndRingRoad,Chenghua District
Chengdu Sichuan 610000
CN

C0-4E-8A (hex) HUAWEI TECHNOLOGIES CO.,LTD
C04E8A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

68-41-8F (hex) Telechips, Inc.
68418F (base 16) Telechips, Inc.
19F~23F,Luther

Bldg.42, Olympic-ro 35da-gil, Songpa-gu,
Seoul Seoul 05510
KR

BC-9E-BB (hex) Nintendo Co.,Ltd
BC9EBB (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

90-27-78 (hex) Open Infrastructure
902778 (base 16) Open Infrastructure
Neufeldstrasse 125
Bern 3012
CH

90-DA-F9 (hex) Siemens Rail Automation SAU
90DAF9 (base 16) Siemens Rail Automation SAU
Ronda de Europa, 5
Tres Cantos 28760
ES

F8-00-9D (hex) INTRACOM DEFENSE S.A.
F8009D (base 16) INTRACOM DEFENSE S.A.
21 Km. Markopoulou Ave.
Koropi Attica 19441
GR

20-16-42 (hex) Microsoft Corporation
201642 (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

CC-8D-B5 (hex) Shenzhen SuperElectron Technology Co.,Ltd.
CC8DB5 (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district,
shenzhen city
Shenzhen Guangdong 518000
CN

AC-EE-64 (hex) Shenzhen SuperElectron Technology Co.,Ltd.
ACEE64 (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen Guangdong 518000
CN

68-EE-4B (hex) Sharetronic Data Technology Co.,Ltd

68EE4B (base 16) Sharetronic Data Technology Co.,Ltd
Room 1209, 12 / F, Building 1, Yaohua Foundation Building, Shennan Avenue, Futian District
Shenzhen Guangdong 518040
CN

48-C3-5A (hex) LENOVO(BEIJING)CO., LTD.
48C35A (base 16) LENOVO(BEIJING)CO., LTD.
Lenovo HQ East,Building 1,No.10 Courtyard Xibeiwang East Road,Haidian District
Beijing 100176
CN

B4-DB-91 (hex) CELESTICA INC.
B4DB91 (base 16) CELESTICA INC.
1900-5140 Yonge Street PO Box 42
Toronto Ontario M2N 6L7
CA

84-07-C4 (hex) Carrier Corporation
8407C4 (base 16) Carrier Corporation
13995
Pasteur Boulevard
Palm Beach Gardens FL 33418
US

44-64-3C (hex) Cisco Systems, Inc
44643C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

24-16-1B (hex) Cisco Systems, Inc
24161B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A8-40-0B (hex) Visteon Corporation
A8400B (base 16) Visteon Corporation
One Village Center Drive
Van Buren Twp MI 48111
US

08-56-9B (hex) WiZ
08569B (base 16) WiZ
Unit 1203-5, 12/F, Tower 1, Enterprise Square, 9 Sheung Yuet Road
Kowloon Bay Hong Kong 0000
HK

60-70-6C (hex) Google, Inc.
60706C (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

C8-2A-DD (hex) Google, Inc.
C82ADD (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

24-09-35 (hex) Samsung Electronics Co.,Ltd
240935 (base 16) Samsung Electronics
Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

8C-94-6A (hex) New H3C Technologies Co., Ltd
8C946A (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

FC-11-65 (hex) Cambium Networks Limited
FC1165 (base 16) Cambium Networks Limited
Unit B2, Linhay Business Park,
Ashburton Devon TQ13 7UP
GB

40-E1-1C (hex) shenzhen Cloud High Communication Technology Co.,Ltd
40E11C (base 16) shenzhen Cloud High Communication Technology Co.,Ltd
Room 1908, Building 1, Jinlitong Financial Center Building, No. 1100, Xingye Road, Haiwang Community, Xin'an Street, Bao'an District, Shenzhen, China
Shenzhen 518128
CN

C0-BF-AC (hex) Huawei Device Co., Ltd.
C0BFAC (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

44-27-2E (hex) Huawei Device Co., Ltd.
44272E (base 16) Huawei Device
Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone

Dongguan Guangdong 523808
CN

10-66-50 (hex) Robert Bosch JuP1
106650 (base 16) Robert Bosch JuP1
Robert Bosch 1150
Juarez Chihuahua 32557
MX

A8-0C-03 (hex) Florawise
A80C03 (base 16) Florawise
?TÜ Ar? Teknokent No:6 Sar?yer
?stanbul 34467
TR

C4-83-72 (hex) IEEE Registration Authority
C48372 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

C0-A5-E8 (hex) Intel Corporate
C0A5E8 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

90-65-84 (hex) Intel Corporate
906584 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

28-C5-D2 (hex) Intel Corporate
28C5D2 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

08-1A-FD (hex) Huawei Device Co., Ltd.
081AFD (base 16) Huawei Device Co., Ltd.
No.2
of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

00-12-F3 (hex) u-blox AG
0012F3 (base 16) u-blox AG

Norra Vallgatan 64
Malmoe SE-211 22
SE

54-70-68 (hex) VTech Communications Limited
547068 (base 16) VTech Communications Limited
23/F, Tai Ping Industrial Centre, Block 1, 57 Ting Kok Road, Tai Po, New Territories
Hong kong 00852
HK

C8-40-52 (hex) PAX Computer Technology(Shenzhen) Ltd.
C84052 (base 16) PAX Computer Technology(Shenzhen) Ltd.
4/F, No.3 Building, Software Park, Second Central Science-Tech Road, High-Tech
Shenzhen GuangDong 518057
CN

C4-61-C7 (hex) Microsoft Corporation
C461C7 (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

AC-CB-36 (hex) Fiberhome Telecommunication Technologies Co.,LTD
ACCB36 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

FC-DF-00
(hex) GD Midea Air-Conditioning Equipment Co.,Ltd.
FCDF00 (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
Midea Global Innovation Center,Beijiao Town,Shunde
Foshan Guangdong 528311
CN

F0-1A-A0 (hex) Aruba, a Hewlett Packard Enterprise Company
F01AA0 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

1C-8B-76 (hex) Calix Inc.
1C8B76 (base 16) Calix Inc.
2777 Orchard Pkwy
San Jose CA 95131
US

E4-8C-73 (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.

E48C73 (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

2C-B6-C8 (hex) Raisecom Technology CO., LTD
2CB6C8 (base 16) Raisecom Technology CO., LTD
No. 11, East Area, No. 10 Block, East Xibeiwang Road
Beijing 100094
CN

D8-34-D1 (hex) Shenzhen Orange Digital Technology
Co.,Ltd
D834D1 (base 16) Shenzhen Orange Digital Technology Co.,Ltd
Room 2305,Building 2,Phase 6 ,Vanke Yuncheng,Tongfa South Road,Xili Community,Xili Street,Nanshan District,Shenzhen
Shenzhen 518055
CN

84-22-89 (hex) Samsung Electronics Co.,Ltd
842289 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

2C-94-52 (hex) HUAWEI TECHNOLOGIES CO.,LTD
2C9452 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

60-01-B1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
6001B1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

5C-BB-EE (hex) zte corporation
5CBBEE (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

84-AA-A4 (hex) SONoC Corp.
84AAA4 (base 16) SONoC Corp.
8F-3,
No. 1071, Zhongzheng Road, Taoyuan District, Taoyuan city, Taiwan
Taoyuan 330

TW

88-3C-93 (hex) Alcatel-Lucent Enterprise
883C93 (base 16) Alcatel-Lucent Enterprise
26801 West Agoura Rd
Calabasas CA 91301
US

D0-06-6A (hex) Cornelis Networks, Inc.
D0066A (base 16) Cornelis Networks, Inc.
1500 Liberty Ridge Drive, Suite 100
Wayne PA 19087
US

88-3C-C5 (hex) IEEE Registration Authority
883CC5 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

2C-9E-00 (hex) Sony Interactive Entertainment Inc.
2C9E00 (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

DC-6A-E7 (hex) Xiaomi Communications Co Ltd
DC6AE7 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

7C-A4-49 (hex) Xiaomi Communications Co Ltd
7CA449 (base 16) Xiaomi Communications
Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

98-20-44 (hex) New H3C Technologies Co., Ltd
982044 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

D8-A0-E8 (hex) zte corporation
D8A0E8 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China

shenzhen guangdong 518057
CN

E8-BF-DB (hex) Inodesign Group
E8BFDB (base 16) Inodesign Group
155 Avenue Georges Hannart
CROIX 59170
FR

28-7E-80 (hex) Hui Zhou Gaoshengda Technology Co.,LTD
287E80 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.2,Jin-da Road,Huinan Industrial Park
Hui Zhou Guangdong 516025
CN

0C-9F-71 (hex) Dolphin Electronics (DongGuan) Co., Ltd.
0C9F71 (base 16) Dolphin Electronics (DongGuan) Co., Ltd.
Building 3,No.2 Baolong Road, Houjie Town,
Dongguan Guangdong 523000
CN

74-58-89
(hex) Multilaser Industrial S.A.
745889 (base 16) Multilaser Industrial S.A.
Rua Josefa Gomes de Souza, 382
Extrema Minas Gerais 37640-000
BR

E8-FF-98 (hex) Huawei Device Co., Ltd.
E8FF98 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

24-15-51 (hex) Huawei Device Co., Ltd.
241551 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

58-95-7E (hex) Huawei Device Co., Ltd.
58957E (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

B8-14-4D (hex) Apple, Inc.
B8144D (base 16) Apple, Inc.

1 Infinite Loop
Cupertino CA 95014
US

EC-28-D3 (hex) Apple, Inc.
EC28D3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

AC-96-5B (hex) Lucid Motors
AC965B (base 16) Lucid
Motors
7373 Gateway Blvd
Newark CA 94560
US

08-65-18 (hex) Apple, Inc.
086518 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

2C-57-CE (hex) Apple, Inc.
2C57CE (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C4-04-D8 (hex) Aviva Links Inc.
C404D8 (base 16) Aviva Links Inc.
160 E Tasman DrSTE 102
SAN JOSE CA 95134
US

A0-44-F3 (hex) RafaelMicro
A044F3 (base 16) RafaelMicro
8F.,No.28,Chenggong 12th St.
ChuBei City HsinChu County 30264
TW

F4-2B-7D (hex) Chipsguide technology CO.,LTD.
F42B7D (base 16) Chipsguide technology CO.,LTD.
No.758 in DongHua Design House, Nan Guang Road, Nan Shan Tone, ShenZhen, Guangdong, China
Shenzhen Guangdong 518002
CN

8C-52-19 (hex) SHARP Corporation

8C5219 (base 16) SHARP Corporation
1 Takumi-cho, Sakai-ku
Sakai City Osaka 590-8522
JP

08-91-15 (hex) Amazon Technologies Inc.
089115
(base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

74-D4-23 (hex) Amazon Technologies Inc.
74D423 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

E0-47-35 (hex) Ericsson AB
E04735 (base 16) Ericsson AB
Torshamnsgatan 36
Stockholm SE-164 80
SE

BC-D7-67 (hex) BAE Systems Apllied Intelligence
BCD767 (base 16) BAE Systems Apllied Intelligence
170 Waterside House
Guildford Surrey GU2 7RQ
GB

EC-1D-9E (hex) Quectel Wireless Solutions Co.,Ltd.
EC1D9E (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

08-1A-1E (hex) Shenzhen iComm Semiconductor CO.,LTD
081A1E (base 16) Shenzhen iComm Semiconductor CO.,LTD
Room 601,Block B ,Digital Building,Garden City
Shenzhen No.1079 Nanhai Road,Nanshan District 518067
CN

80-64-6F (hex) Espressif Inc.
80646F
(base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

80-39-8C (hex) Samsung Electronics Co.,Ltd
80398C (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

98-0D-6F (hex) Samsung Electronics Co.,Ltd
980D6F (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

1C-90-FF (hex) Tuya Smart Inc.
1C90FF (base 16) Tuya Smart Inc.
160 Greentree Drive, Suite 101
Dover DE 19904
US

10-82-3D (hex) Ruijie Networks Co.,LTD
10823D (base 16) Ruijie Networks Co.,LTD
No. 2, 7th floor, xingwangruijie, haixi hi-tech industrial park, high-tech zone, fuzhou city
Fuzhou Fujian 350002
CN

50-5F-B5 (hex) ASKEY COMPUTER CORP
505FB5 (base 16) ASKEY COMPUTER CORP
10F, NO. 119, JIANKANG RD., ZHONGHE DIST.
NEW TAIPEI 235
TW

88-DE-7C (hex) ASKEY COMPUTER CORP
88DE7C (base 16) ASKEY
COMPUTER CORP
10F, No.119, JIANKANG RD.,ZHINGHE DIST,
NEW TAIPEI CITY 23585
TW

04-57-47 (hex) GoPro
045747 (base 16) GoPro
3000 Clearview Way
San Mateo CA 94402
US

80-56-3C (hex) ZF
80563C (base 16) ZF
Ehlersstraße 50
Friedrichshafen BW 88046

DE

90-98-77 (hex) Vestel Elektronik San ve Tic. A.S.
909877 (base 16) Vestel Elektronik San ve Tic. A.S.
Organize san
Manisa Turket 45030
TR

3C-A7-AE (hex) zte corporation
3CA7AE (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

AC-31-84 (hex) Huawei Device Co., Ltd.
AC3184 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

50-3F-50 (hex) Huawei Device Co., Ltd.
503F50 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

2C-69-1D
(hex) IEEE Registration Authority
2C691D (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

40-A5-3B (hex) Nokia
40A53B (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

74-80-3F (hex) Renesas Electronics (Penang) Sdn. Bhd.
74803F (base 16) Renesas Electronics (Penang) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

20-9C-B4 (hex) Aruba, a Hewlett Packard Enterprise Company
209CB4 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd

Santa Clara CA 95054
US

5C-60-BA (hex) HP Inc.
5C60BA (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

BC-F8-8B (hex) zte corporation
BCF88B (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

68-53-9D (hex) EM Microelectronic
68539D (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier
Neuchatel 2074
CH

E0-51-D8 (hex) China Dragon Technology Limited
E051D8 (base 16) China Dragon Technology Limited
B4 Bldg.Haoshan 1st Industry Park,
Shenzhen Guangdong 518104
CN

E8-CC-8C (hex) Chengdu Jiarui Hualian Communication Technology Co
E8CC8C (base 16) Chengdu Jiarui Hualian Communication Technology Co
5th Floor, Building F, Huirong Plaza (Jinhua), No. 88, Section 3, Jinhua Road, Industrial Park, Jinjiang District, Chengdu, Sichuan Province
Chengdu Sichuan 610000
CN

E4-65-64 (hex) SHENZHEN KTC TECHNOLOGY CO.,LTD
E46564 (base 16) SHENZHEN KTC TECHNOLOGY CO.,LTD
Add: NO.4023, Wuhe Road, Bantian, Longgang District, Shenzhen, China
SHEN ZHEN GUANG DONG 518100
CN

E0-EF-02 (hex) Chengdu Quanjing Intelligent Technology Co.,Ltd
E0EF02 (base 16) Chengdu Quanjing Intelligent Technology Co.,Ltd
Building A2, Chi Yuen Technology Park, 1001 College Avenue, Nanshan District, Shenzhen,P.R.C.
Shenzhen
Guangdong 518000
CN

4C-A3-A7 (hex) TECNO MOBILE LIMITED
4CA3A7 (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

B0-67-B5 (hex) Apple, Inc.
B067B5 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

5C-52-84 (hex) Apple, Inc.
5C5284 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C0-95-6D (hex) Apple, Inc.
C0956D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

90-0A-62 (hex) Inventus Power Eletronica do Brasil LTDA
900A62 (base 16) Inventus Power Eletronica do Brasil LTDA
Av Buriti, 4285 Distrito Industrial
Manaus Amazonas 69075000
BR

04-43-FD (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
0443FD (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain
Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

7C-DE-78 (hex) New H3C Technologies Co., Ltd
7CDE78 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

A4-89-7E (hex) Guangzhou Yuhong Technology Co.,Ltd.
A4897E (base 16) Guangzhou Yuhong Technology Co.,Ltd.
Room 402, No. 11 Software Road, Tianhe District, Guangzhou
Guangzhou Guangdong 510640

CN

EC-A1-38 (hex) Amazon Technologies Inc.
ECA138 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

3C-E0-64 (hex) Texas Instruments
3CE064 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

E0-92-8F (hex) Texas Instruments
E0928F (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

CC-03-7B (hex) Texas Instruments
CC037B (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

58-1C-F8 (hex) Intel
Corporate
581CF8 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

AC-19-8E (hex) Intel Corporate
AC198E (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C8-5E-A9 (hex) Intel Corporate
C85EA9 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C8-BF-4C (hex) Beijing Xiaomi Mobile Software Co., Ltd
C8BF4C (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District

Beijing Beijing 100085
CN

3C-39-C8 (hex) Apple, Inc.
3C39C8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A8-AB-B5 (hex) Apple, Inc.
A8ABB5 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

58-64-C4 (hex) Apple, Inc.
5864C4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

AC-84-C6 (hex) TP-LINK TECHNOLOGIES
CO.,LTD.
AC84C6 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

1C-0E-D3 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
1C0ED3 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

CC-29-BD (hex) zte corporation
CC29BD (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

38-5C-FB (hex) Silicon Laboratories
385CFB (base 16) Silicon Laboratories
400 West Cesar Chavez Street
Austin TX 78701
US

C4-3D-1A (hex) Intel Corporate
C43D1A (base 16) Intel Corporate

Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

04-E8-B9 (hex) Intel Corporate
04E8B9 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3

Kulim Kedah 09000
MY

E0-2E-0B (hex) Intel Corporate
E02E0B (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

38-0A-4F (hex) PRACHI ENTERPRISES
380A4F (base 16) PRACHI ENTERPRISES
B-141, 2nd FLOOR SECTOR-6 NOIDA
NOIDA UTTARPRADESH 201301
IN

0C-BE-F1 (hex) Huawei Device Co., Ltd.
0CBEF1 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

AC-93-6A (hex) Huawei Device Co., Ltd.
AC936A (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

38-A4-4B (hex) Huawei Device Co., Ltd.
38A44B (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

80-19-70 (hex) Samsung Electronics Co.,Ltd
801970 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B8-FB-AF

(hex) Xiamen IPRT Technology CO.,LTD
B8FBAF (base 16) Xiamen IPRT Technology CO.,LTD
3~5Floor,No.101,Huili Industry Park,Meixi Road,Tongan District,Xiamen,China.
xiamen fujian 361000
CN

34-85-18 (hex) Espressif Inc.
348518 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

54-9A-11 (hex) IEEE Registration Authority
549A11 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

E0-F7-28 (hex) Amazon Technologies Inc.
E0F728 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

24-29-34 (hex) Google, Inc.
242934 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

EC-E6-A2 (hex) Fiberhome Telecommunication Technologies Co.,LTD
ECE6A2 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

38-22-F4
(hex) Huawei Device Co., Ltd.
3822F4 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

80-02-F4 (hex) IEEE Registration Authority
8002F4 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

14-9B-F3 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
149BF3 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

B8-50-D8 (hex) Beijing Xiaomi Mobile Software Co., Ltd
B850D8 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

C0-9F-51 (hex) SERNET (SUZHOU) TECHNOLOGIES CORPORATION
C09F51 (base 16) SERNET (SUZHOU) TECHNOLOGIES CORPORATION
NO.8 Tangzhuang Road,Suzhou Industrial Park,Su ZhouCity,JiangSu Province,China
Suzhou 215021
CN

10-07-1D
(hex) Fiberhome Telecommunication Technologies Co.,LTD
10071D (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

10-B2-32 (hex) Qingdao Intelligent&Precise Electronics Co.,Ltd.
10B232 (base 16) Qingdao Intelligent&Precise Electronics Co.,Ltd.
No.218 Qianwangang Road
Qingdao Shangdong 266510
CN

AC-5A-F0 (hex) LG Electronics
AC5AF0 (base 16) LG Electronics
222 LG-ro, JINWI-MYEON
Pyeongtaek-si Gyeonggi-do 451-713
KR

EC-A6-2F (hex) HUAWEI TECHNOLOGIES CO.,LTD
ECA62F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A0-CD-F3 (hex) Murata Manufacturing Co., Ltd.
A0CDF3 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555

JP

B4-8A-0A (hex) Espressif Inc.
B48A0A (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo
Rd, Pudong New Area
Shanghai Shanghai 201203
CN

C8-3A-1B (hex) Toshiba TEC Corporation Inc
C83A1B (base 16) Toshiba TEC Corporation Inc
Oval Court Ohsaki Mark East
Shinagawa-ku Tokyo 141-8664
JP

C8-C1-3C (hex) RuggedTek Hangzhou Co., Ltd
C8C13C (base 16) RuggedTek Hangzhou Co., Ltd
Zhejiang University National Science Park
Hangzhou Zhejiang 310013
CN

5C-53-C3 (hex) Ubee Interactive Co., Limited
5C53C3 (base 16) Ubee Interactive Co., Limited
Flat/RM 1202, 12/F, AT Tower, 180 Electric Road
North Point 00000
HK

84-70-D7 (hex) eero inc.
8470D7 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

9C-1F-CA (hex) Hangzhou AlmightyDigit Technology Co., Ltd
9C1FCA (base 16) Hangzhou AlmightyDigit Technology Co., Ltd
Room A0041, 10 / F, building 1, Haizhi center, Cangqian street, Yuhang District
Hangzhou Zhejiang 310000
CN

24-2C-FE (hex) Zhejiang Tmall Technology
Co., Ltd.
242CFE (base 16) Zhejiang Tmall Technology Co., Ltd.
No.969 Wenyi West Road, Wuchang Street, Yuhang District
Hangzhou Zhejiang 310024
CN

A0-42-D1 (hex) Huawei Device Co., Ltd.
A042D1 (base 16) Huawei Device Co., Ltd.

No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

58-87-9F (hex) Huawei Device Co., Ltd.
58879F (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

2C-DC-78 (hex) Descartes Systems (USA) LLC
2CDC78 (base 16) Descartes Systems (USA) LLC
2030 Powers Ferry Road SE
Atlanta GA 303339
US

F4-B3-B1 (hex) Silicon Laboratories
F4B3B1 (base 16) Silicon Laboratories
400 West Cesar Chavez Street
Austin TX 78701
US

58-1D-D8 (hex) Sagemcom Broadband SAS
581DD8 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

E8-D8-7E
(hex) Amazon Technologies Inc.
E8D87E (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

30-D5-87 (hex) Samsung Electronics Co.,Ltd
30D587 (base 16) Samsung Electronics Co.,Ltd
#416, Maetan 3-dong
Suwon-si Gyeonggi-do 443-742
KR

08-E6-3B (hex) zte corporation
08E63B (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

88-C1-74 (hex) zte corporation

88C174 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

C8-9E-61 (hex) Lyngsoe Systems LTd
C89E61 (base 16) Lyngsoe Systems LTd
101 Simona Dr., Unit 2
Bolton Ontario L7E 4E8
CA

6C-15-24 (hex) IEEE Registration Authority
6C1524 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

C0-8D-51 (hex) Amazon Technologies Inc.
C08D51 (base 16) Amazon
Technologies Inc.
P.O Box 8102
Reno NV 89507
US

44-B4-B2 (hex) Amazon Technologies Inc.
44B4B2 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

AC-CC-FC (hex) Amazon Technologies Inc.
ACCCFC (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

14-F5-92 (hex) Shenzhen SDG DONZHI Technology Co., Ltd
14F592 (base 16) Shenzhen SDG DONZHI Technology Co., Ltd
1001 SDG Information Technology Building, No.2 Qiongyu Road, Science park Community, Yuehai Street, Nanshan District,
Shenzhen GuangDong 518000
CN

4C-09-FA (hex) FRONTIER SMART TECHNOLOGIES LTD
4C09FA (base 16) FRONTIER SMART TECHNOLOGIES LTD
17 Waterloo Place
London SW1Y 4AR
GB

48-B4-C3 (hex) Aruba, a Hewlett Packard Enterprise Company
48B4C3 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

E8-DC-6C (hex) Cisco Systems, Inc
E8DC6C
(base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

68-A7-B4 (hex) Honor Device Co., Ltd.
68A7B4 (base 16) Honor Device Co., Ltd.
Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District
Shenzhen Guangdong 518040
CN

80-3C-20 (hex) HUAWEI TECHNOLOGIES CO.,LTD
803C20 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A4-DD-58 (hex) HUAWEI TECHNOLOGIES CO.,LTD
A4DD58 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

2C-82-17 (hex) Apple, Inc.
2C8217 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

78-03-4F (hex) Nokia
78034F (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

9C-57-BC (hex) eero inc.
9C57BC (base 16) eero

inc.
660 3rd Street
San Francisco CA 94107
US

00-15-A6 (hex) Digital Electronics Products Ltd.
0015A6 (base 16) Digital Electronics Products Ltd.
Room 301, 3 rd Floor, Tsun Yip Centre
Kwun Tong 852
HK

B0-1F-8C (hex) Aruba, a Hewlett Packard Enterprise Company
B01F8C (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

00-0A-D0 (hex) Niigata Develoment Center, F.I.T. Co., Ltd.
000AD0 (base 16) Niigata Develoment Center, F.I.T. Co., Ltd.
Akane-Niigata Building 2F
Niigata Niigata Prefecture 950-0944
JP

7C-EF-40 (hex) Nextorage Corporation
7CEF40 (base 16) Nextorage Corporation
Kawasaki-eki-mae Tower Riverk 9F, 12-1, Ekimaehoncho, Kawasaki-ku
Kawasaki City Kanagawa 210-0007
JP

C0-E0-1C (hex) IoT Security Group, SL
C0E01C (base 16) IoT Security Group, SL
Calle Pez Dorado, 27, local 2
Torremolinos Malaga 29620
ES

A8-A2-37
(hex) Arcadyan Corporation
A8A237 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

F8-AB-82 (hex) Xiaomi Communications Co Ltd
F8AB82 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

EC-30-B3 (hex) Xiaomi Communications Co Ltd
EC30B3 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

90-2C-FB (hex) CanTops Co,.Ltd.
902CFB (base 16) CanTops Co,.Ltd.
A-1002 Digital Empire, 16, Deogyong-daero 1556beon-gil
Yeongtong-gu Suwon-si, Gyonggi-do 1660
KR

1C-AF-4A (hex) Samsung Electronics Co.,Ltd
1CAF4A (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

C8-12-0B (hex) Samsung Electronics Co.,Ltd
C8120B (base 16) Samsung Electronics Co.,Ltd
129,
Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

28-BE-43 (hex) vivo Mobile Communication Co., Ltd.
28BE43 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

2C-FC-8B (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
2CFC8B (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

28-74-F5 (hex) Nokia Solutions and Networks GmbH & Co. KG
2874F5 (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541
DE

B0-3F-64 (hex) Apple, Inc.
B03F64 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

14-2D-4D (hex) Apple, Inc.
142D4D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

EC-42-CC (hex) Apple, Inc.
EC42CC (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B8-21-1C
(hex) Apple, Inc.
B8211C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A0-44-66 (hex) Intellics
A04466 (base 16) Intellics
697, Pangyo-ro, Bundang-gu
Seongnam-si Gyeonggi-do 13511
KR

44-6D-7F (hex) Amazon Technologies Inc.
446D7F (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno 89507
US

24-06-F2 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
2406F2 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

90-93-5A (hex) ARRIS Group, Inc.
90935A (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

AC-8F-A9 (hex) Nokia Solutions and Networks GmbH & Co. KG
AC8FA9 (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541

DE

44-29-1E (hex) AltoBeam (China) Inc.
44291E (base 16) AltoBeam
(China) Inc.
B808, Tsinghua Tongfang Hi-Tech Plaza, Haidian
Beijing Beijing 100083
CN

24-EB-ED (hex) HUAWEI TECHNOLOGIES CO.,LTD
24EBED (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

AC-51-AB (hex) HUAWEI TECHNOLOGIES CO.,LTD
AC51AB (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

48-CD-D3 (hex) HUAWEI TECHNOLOGIES CO.,LTD
48CDD3 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A8-C9-8A (hex) New H3C Technologies Co., Ltd
A8C98A (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

E0-27-6C (hex) Guangzhou Shiyuan Electronic Technology Company Limited
E0276C (base 16) Guangzhou Shiyuan Electronic Technology Company
Limited
No.6, 4th Yunpu Road, Yunpu industry District
Guangzhou Guangdong 510530
CN

DC-8E-95 (hex) Silicon Laboratories
DC8E95 (base 16) Silicon Laboratories
400 West Cesar Chavez Street
Austin TX 78701
US

00-26-04 (hex) WorldCast Systems
002604 (base 16) WorldCast Systems

20 Avenue Neil Armstrong
Mérignac 33700
FR

F8-AD-24 (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
F8AD24 (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

CC-66-18 (hex) Adtran Inc
CC6618 (base 16) Adtran Inc
901 Explorer Blvd.
Huntsville AL 35806-2807
US

C0-C1-70 (hex) Shenzhen SuperElectron Technology Co.,Ltd.
C0C170 (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen Guangdong
518000
CN

50-42-89 (hex) zte corporation
504289 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

04-E3-1A (hex) Sagemcom Broadband SAS
04E31A (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

18-BC-57 (hex) ADVA Optical Networking Ltd.
18BC57 (base 16) ADVA Optical Networking Ltd.
ADVAntage House
York YO30 4RY
GB

D8-E2-DF (hex) Microsoft Corporation
D8E2DF (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

E8-EB-D3 (hex) Mellanox Technologies, Inc.

E8EBD3 (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway, Suite 100
Sunnyvale CA 94085
US

6C-99-9D (hex) Amazon Technologies Inc.
6C999D (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

68-18-D9 (hex) Hill AFB - CAPRE Group
6818D9
(base 16) Hill AFB - CAPRE Group
7278 4th Street
Hill AFB UT 84056
US

1C-61-B4 (hex) TP-Link Corporation Limited
1C61B4 (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

9C-A2-F4 (hex) TP-Link Corporation Limited
9CA2F4 (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

7C-6A-60 (hex) China Mobile Group Device Co.,Ltd.
7C6A60 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

B4-69-5F (hex) TCT mobile ltd
B4695F (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

6C-0F-61 (hex) Hypervolt Ltd
6C0F61 (base 16) Hypervolt Ltd
25 Churchill Place
London E14 5EY
GB

24-75-3A (hex) GUANGDONG OPPO
MOBILE TELECOMMUNICATIONS CORP.,LTD
24753A (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

6C-93-08 (hex) IEEE Registration Authority
6C9308 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

38-8F-30 (hex) Samsung Electronics Co.,Ltd
388F30 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

84-C6-92 (hex) Texas Instruments
84C692 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

6C-B2-FD (hex) Texas Instruments
6CB2FD (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

C0-06-0C (hex) HUAWEI TECHNOLOGIES CO.,LTD
C0060C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B0-A4-F0 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B0A4F0 (base 16) HUAWEI TECHNOLOGIES
CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

8C-15-53 (hex) Beijing Memblaze Technology Co Ltd
8C1553 (base 16) Beijing Memblaze Technology Co Ltd
Building B2,Dongsheng Park, 66 Xixiaokou Road, Haidian
Beijing Beijing 100192

CN

6C-B1-58 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
6CB158 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

A8-53-7D (hex) Mist Systems, Inc.
A8537D (base 16) Mist Systems, Inc.
1601 South De Anza Blvd, Suite 248
Cupertino CA 95014
US

30-34-22 (hex) eero inc.
303422 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

30-2B-DC (hex) Top-Unum Electronics Co., LTD
302BDC (base 16) Top-Unum Electronics Co., LTD
No. 58, Ln. 137, Jianshan Rd., Yingge Dist.,
New Taipei City 239,
Taiwan 239
CN

90-F7-B2 (hex) New H3C Technologies Co., Ltd
90F7B2 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

1C-47-F6 (hex) Zhidao Network Technology(Shenzhen) Co.,Ltd
1C47F6 (base 16) Zhidao Network Technology(Shenzhen) Co.,Ltd
B3, 11 / F, Exiang Technology Building, No. 31, Zhongsi Road, Gaoxin, Maling Community, Yuehai Street, Nanshan District
Shenzhen 518000
CN

00-0C-D6 (hex) PARTNER TECH
000CD6 (base 16) PARTNER TECH
10F, NO.233-2,PAO CHIAO ROAD, SHIN TIEN
TAIPEI 231
TW

D4-BD-4F (hex) Ruckus Wireless
D4BD4F (base 16) Ruckus Wireless

350 West Java Drive
Sunnyvale CA 94089
US

5C-C9-C0 (hex) Renesas Electronics (Penang) Sdn. Bhd.
5CC9C0 (base 16) Renesas Electronics (Penang) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

E4-DA-DF (hex) Taicang T&W Electronics
E4DADF (base 16) Taicang
T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

7C-35-F8 (hex) Zhejiang Tmall Technology Co., Ltd.
7C35F8 (base 16) Zhejiang Tmall Technology Co., Ltd.
No.969 Wenyi West Road, Wuchang Street, Yuhang District
Hangzhou Zhejiang 310024
CN

74-26-FF (hex) zte corporation
7426FF (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

C4-27-28 (hex) zte corporation
C42728 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

C8-58-95 (hex) Motorola Mobility LLC, a Lenovo Company
C85895 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

E8-81-AB (hex) Beijing Sankuai Online Technology Co.,Ltd
E881AB (base 16) Beijing Sankuai Online Technology Co.,Ltd
BC Building, China Electronic Science Taiji Information
Technology Industry Base, Yard 7, Rongda Road, Chaoyang District
Beijing 100102
CN

E8-D3-22 (hex) Cisco Systems, Inc
E8D322 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

2C-33-41 (hex) China Mobile IOT Company Limited
2C3341 (base 16) China Mobile IOT Company Limited
NO.8 Yu Ma Road, NanAn Area
Chongqing Chongqing 401336
CN

AC-56-7B (hex) Sunnovo International Limited
AC567B (base 16) Sunnovo International Limited
1717 Haitai Building
Beijing Beijing 100083
CN

34-D7-37 (hex) IBG Industriebeteiligungsgesellschaft mbH &b Co. KG
34D737 (base 16) IBG Industriebeteiligungsgesellschaft mbH &b Co. KG
Pferdmengestr. 1
Cologne NRW 50968
DE

C0-79-82 (hex) TCL King Electrical Appliances(Huizhou)Co.,Ltd
C07982 (base 16) TCL King Electrical Appliances(Huizhou)Co.,Ltd
B Area, 10th floor, TCL multimedia Building, TCL International E City, #1001 Zhonshanyuan road,Shenzhen
guangdong China 518058
CN

7C-C9-5E (hex) Dongguan Liesheng Electronic Co., Ltd.
7CC95E (base 16) Dongguan Liesheng Electronic Co., Ltd.
F5, Building B, North Block, Gaosheng Tech Park, No. 84 Zhongli Road, Nancheng District, Dongguan Ci
dongguan guangdong 523000
CN

9C-C1-2D (hex) GD Midea Air-Conditioning Equipment Co.,Ltd.
9CC12D (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
Midea Global Innovation Center,Beijiao Town,Shunde
Foshan Guangdong 528311
CN

A0-B4-BF (hex) InfiNet LLC
A0B4BF (base 16) InfiNet LLC
Office 425, 69/75 Vavilova str.
Moscow\ 117335
RU

D0-ED-FF (hex) ZF CVCS
D0EDFF (base 16) ZF CVCS
Am Lindener Hafen 21
Hannover 30453
DE

98-8F-E0 (hex) IEEE Registration Authority
988FE0 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

F8-A9-1F (hex) ZVISION Technologies Co., Ltd
F8A91F (base 16) ZVISION
Technologies Co., Ltd
108, No.1, Block A, Zhongguancun Software Park, Haidian District
Beijing Beijing 100085
CN

4C-BA-D7 (hex) LG Innotek
4CBAD7 (base 16) LG Innotek
26, Hanamsandan 5beon-ro
Gwangju Gwangsan-gu 506-731
KR

08-E0-21 (hex) Honor Device Co., Ltd.
08E021 (base 16) Honor Device Co., Ltd.
Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District
Shenzhen Guangdong 518040
CN

8C-C7-C3 (hex) NETLINK ICT
8CC7C3 (base 16) NETLINK ICT
Jupitor Jn,Near Time kids Koothattukulam - Piravom Rd
Ernakulam KL 686662
IN

B0-5C-16 (hex) Fiberhome Telecommunication Technologies Co.,LTD
B05C16 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

80-65-7C (hex) Apple, Inc.
80657C (base 16) Apple, Inc.
1 Infinite Loop

Cupertino CA 95014
US

DC-80-84 (hex) Apple,
Inc.
DC8084 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

10-2C-8D (hex) GD Midea Air-Conditioning Equipment Co.,Ltd.
102C8D (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
Midea Global Innovation Center,Beijiao Town,Shunde
Foshan Guangdong 528311
CN

C0-FB-C1 (hex) ITEL MOBILE LIMITED
C0FBC1 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

98-50-A3 (hex) SIGNALTEK JSC
9850A3 (base 16) SIGNALTEK JSC
2 Ivovaya street, floor 4, office 1, Room 45
Moscow 2 Ivovaya street, floor 4, office 1, Room 45 129329
RU

DC-36-43 (hex) IEEE Registration Authority
DC3643 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

B0-DD-74 (hex) Heimgard Technologies AS
B0DD74 (base 16) Heimgard Technologies AS
Dronning Mauds gate 15
Oslo
Norway 0250
NO

B4-8C-9D (hex) AzureWave Technology Inc.
B48C9D (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

50-B3-B4 (hex) Shenzhen Furuilian Electronic Co.,Ltd.

50B3B4 (base 16) Shenzhen Furuilian Electronic Co.,Ltd.
3/F, No.5 Building Workshop, No.123, Shuitian Industrial Zone,Baoshi East Road, Shuitian Community, Shiyan Street, Bao'an District,
Shenzhen 518000
CN

34-B8-83 (hex) Cisco Systems, Inc
34B883 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

94-E6-86 (hex) Espressif Inc.
94E686 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

F8-28-C9 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F828C9 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

FC-11-93 (hex) HUAWEI TECHNOLOGIES CO.,LTD
FC1193
(base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

7C-CC-FC (hex) Quectel Wireless Solutions Co.,Ltd.
7CCCFC (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

08-00-76 (hex) PC LAN TECHNOLOGIES
080076 (base 16) PC LAN TECHNOLOGIES
5780 LINCOLN DRIVE SUITE 106
MINNEAPOLIS MN 55436
US

D8-B6-73 (hex) Texas Instruments
D8B673 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

B4-F2-67 (hex) Compal Broadband Networks, Inc.
B4F267 (base 16) Compal Broadband Networks, Inc.
13F., No.1, Taiyuan 1st St.
Zhubei City Hsinchu County 30265
TW

2C-FD-B4 (hex) Shenzhen Jingxun Software Telecommunication Technology Co.,Ltd
2CFDB4 (base 16) Shenzhen Jingxun Software Telecommunication Technology Co.,Ltd
3/F,A5 Building
Zhiyuan Community No.1001,Xueyuan Road Nanshan District
Shenzhen Guangdong 518055
CN

38-C8-04 (hex) Hui Zhou Gaoshengda Technology Co.,LTD
38C804 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.75,Zhongkai High-Tech Development District,Huizhou
Hui Zhou Guangdong 516006
CN

E0-07-C2 (hex) FUJIAN STAR-NET COMMUNICATION CO.,LTD
E007C2 (base 16) FUJIAN STAR-NET COMMUNICATION CO.,LTD
19-22# Building, Star-net Science Plaza, Juyuanzhou,
FUZHOU FUJIAN 350002
CN

84-B4-DB (hex) Silicon Laboratories
84B4DB (base 16) Silicon Laboratories
400 West Cesar Chavez Street
Austin TX 78701
US

1C-70-C9 (hex) Jiangsu Aisida Electronic Co., Ltd
1C70C9 (base 16) Jiangsu Aisida Electronic Co., Ltd
Aisida Industrial Park,Lanling Road,Danyang Development Zone
DanYang JiangSu 212300
CN

3C-F7-D1 (hex) OMRON Corporation
3CF7D1 (base 16) OMRON Corporation
Shiokoji Horikawa, Shimogyo-ku
Kyoto
600-8530
JP

04-EE-E8 (hex) IEEE Registration Authority
04EEE8 (base 16) IEEE Registration Authority
445 Hoes Lane

Piscataway NJ 08554
US

9C-B8-B4 (hex) AMPAK Technology,Inc.
9CB8B4 (base 16) AMPAK Technology,Inc.
3F, No.15-1 Zhonghua Road, Hsinchu Industrail Park, Hukou,
Hsinchu Hsinchu,Taiwan R.O.C. 30352
TW

F0-61-C0 (hex) Aruba, a Hewlett Packard Enterprise Company
F061C0 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

DC-CC-E6 (hex) Samsung Electronics Co.,Ltd
DCCCE6 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F0-65-AE (hex) Samsung Electronics Co.,Ltd
F065AE (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C0-BA-E6 (hex) Application Solutions (Safety and Security) Ltd
C0BAE6 (base 16) Application Solutions (Safety and Security) Ltd
Unit
2 York Road, Burgess Hill
England West Sussex, England, RH15 9TT RH15 9TT
GB

50-87-4D (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
50874D (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

A0-53-94 (hex) Shenzhen zediel co., Ltd.
A05394 (base 16) Shenzhen zediel co., Ltd.
Xixiang
Shenzhen guangdong 518000
CN

18-D7-93 (hex) IEEE Registration Authority
18D793 (base 16) IEEE Registration Authority

445 Hoes Lane
Piscataway NJ 08554
US

E8-51-77 (hex) Qingdao Intelligent&Precise Electronics Co.,Ltd.
E85177 (base 16) Qingdao Intelligent&Precise Electronics Co.,Ltd.
No.218 Qianwangang Road
Qingdao Shangdong 266510
CN

38-8A-21 (hex) UAB Teltonika Telematics
388A21 (base 16) UAB Teltonika Telematics
Saltoniskiu str. 9B-1
Vilnius LT-08105
LT

A0-59-50 (hex) Intel Corporate
A05950 (base 16) Intel
Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

2C-DD-5F (hex) Shenzhen iComm Semiconductor CO.,LTD
2CDD5F (base 16) Shenzhen iComm Semiconductor CO.,LTD
Room 601,Block B ,Digital Building,Garden City
Shenzhen No.1079 Nanhai Road,Nanshan District 518067
CN

50-89-D1 (hex) Huawei Device Co., Ltd.
5089D1 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

A4-17-52 (hex) Hifocus Electronics India Private Limited
A41752 (base 16) Hifocus Electronics India Private Limited
No. 3 Sunguvar Street, Chintadripet
Chennai Tamil Nadu 600002
IN

00-62-0B (hex) Broadcom Limited
00620B (base 16) Broadcom Limited
15191 Alton Parkway
Irvine CA 92618
US

40-FE-95 (hex) New H3C Technologies Co., Ltd

40FE95 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

E0-6D-18
(hex) PIONEERCORPORATION
E06D18 (base 16) PIONEERCORPORATION
25-1,yamada
kawagoe-shi saitama 3508555
JP

A4-5F-B9 (hex) DreamBig Semiconductor, Inc.
A45FB9 (base 16) DreamBig Semiconductor, Inc.
2860 Zanker Road, Suite 210
San Jose CA 95134
US

34-5D-9E (hex) Sagemcom Broadband SAS
345D9E (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

18-C2-3C (hex) Lumi United Technology Co., Ltd
18C23C (base 16) Lumi United Technology Co., Ltd
8th Floor, JinQi Wisdom Valley, No.1 TangLing Road, LinXian Ave, Taoyuan Residential District,Nanshan District
ShenZhen GuangDong 518055
CN

04-75-F9 (hex) Taicang T&W Electronics
0475F9 (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

BC-D0-74 (hex) Apple, Inc.
BCD074 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D4-35-4A (hex) ALAXALA
Networks Corporation
D4354A (base 16) ALAXALA Networks Corporation
Shinkawasaki Mitsui Bldg. West Tower.13F, 1-1-2 Kashimada, Saiwai-ku
Kawasaki-shi Kanagawa-ken 212-0058
JP

40-E9-9B (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
40E99B (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T. Bangsamak SEMTHAI, WELLGROW INDUSTRIAL ESTATE
Bangpakong Chachoengsao 24180
TH

90-FF-D6 (hex) Honor Device Co., Ltd.
90FFD6 (base 16) Honor Device Co., Ltd.
A1701, Block AB, Building 1, Tianan Yungu Phase I, Gangtou Community, Bantian Street
Shenzhen Guangdong 518129
CN

0C-1E-F7 (hex) Omni-ID
0C1EF7 (base 16) Omni-ID
Omni-ID, The Enterprise Center, Coxbridge Business Park, Alton Road
Farnham Surrey GU105EH
GB

B4-D2-86 (hex) Telechips, Inc.
B4D286 (base 16) Telechips, Inc.
19F~23F,Luther Bldg.42, Olympic-ro 35da-gil, Songpa-gu,
Seoul Seoul 05510
KR

58-CF-79 (hex) Espressif Inc.
58CF79
(base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

78-62-99 (hex) BITSTREAM sp. z o.o.
786299 (base 16) BITSTREAM sp. z o.o.
Melgiewska, 7/9
Lublin 20-209
PL

CC-5B-31 (hex) Nintendo Co.,Ltd
CC5B31 (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

B0-3C-DC (hex) Intel Corporate
B03CDC (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000

MY

C0-2B-31 (hex) Phytium Technology Co.,Ltd.
C02B31 (base 16) Phytium Technology Co.,Ltd.
Building5,XinAn Business Square,Haiyuan Middle Road Binhai New District,
Tianjin 300450
CN

00-0F-32 (hex) Lootom Telcovideo Network (Wuxi) Co Ltd
000F32 (base 16) Lootom Telcovideo Network (Wuxi) Co Ltd
5F, 9Building,
WuXi JiangSu 214072
CN

8C-F8-C5 (hex) Intel Corporate
8CF8C5 (base 16) Intel Corporate
Lot
8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

08-F8-0D (hex) IEEE Registration Authority
08F80D (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

4C-C4-49 (hex) Icotera A/S
4CC449 (base 16) Icotera A/S
Vibeholms Allé 16
Brøndby 2605
DK

BC-45-5B (hex) Samsung Electronics Co.,Ltd
BC455B (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

78-04-7A (hex) Edge Networks LLC
78047A (base 16) Edge Networks LLC
14 Whistler Hill Lane
HUNTINGTON NY 11743
US

CC-A3-BD (hex) ITEL MOBILE LIMITED
CCA3BD (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K

Hong Kong KOWLOON 999077
HK

6C-3A-36 (hex) Glowforge Inc
6C3A36 (base 16) Glowforge Inc
2200 1st Ave S
Seattle WA 98134
US

BC-AF-87 (hex) smartAC.com, Inc.
BCAF87 (base
16) smartAC.com, Inc.
5302 Egbert St, SmartACcom
Houston TX 77007
US

10-E8-A7 (hex) Wistron Neweb Corporation
10E8A7 (base 16) Wistron Neweb Corporation
No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu R.O.C. 308
TW

EC-50-AA (hex) Aruba, a Hewlett Packard Enterprise Company
EC50AA (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

A4-EF-15 (hex) AltoBeam (China) Inc.
A4EF15 (base 16) AltoBeam (China) Inc.
B808, Tsinghua Tongfang Hi-Tech Plaza, Haidian
Beijing Beijing 100083
CN

C0-28-0B (hex) Honor Device Co., Ltd.
C0280B (base 16) Honor Device Co., Ltd.
A1701, Block AB, Building 1, Tianan Yungu Phase I, Gangtou Community, Bantian Street
Shenzhen Guangdong 518129
CN

9C-EA-97 (hex) Honor Device Co., Ltd.
9CEA97 (base 16) Honor Device Co., Ltd.
A1701, Block AB, Building 1, Tianan Yungu Phase I, Gangtou Community, Bantian Street
Shenzhen
Guangdong 518129
CN

C8-9B-AD (hex) Honor Device Co., Ltd.

C89BAD (base 16) Honor Device Co., Ltd.
Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District,Shenzhen, Guangdong 518040, People's Republic of China
Shenzhen 518040
CN

A0-6C-65 (hex) Texas Instruments
A06C65 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

44-85-02 (hex) Shenzhen SuperElectron Technology Co.,Ltd.
448502 (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen Guangdong 518000
CN

D4-94-00 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D49400 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D4-2C-46 (hex) BUFFALO.INC
D42C46 (base 16) BUFFALO.INC
AKAMONDORI Bld.,30-20,Ohsu
3-chome,Naka-ku
Nagoya Aichi Pref. 460-8315
JP

10-91-A8 (hex) Espressif Inc.
1091A8 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

D4-6C-6D (hex) ARRIS Group, Inc.
D46C6D (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

A0-E7-AE (hex) ARRIS Group, Inc.
A0E7AE (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

80-6A-00 (hex) Cisco Systems, Inc
806A00 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

F4-A4-54 (hex) IEEE Registration Authority
F4A454 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

58-FC-C6 (hex) TOZO INC
58FCC6 (base 16) TOZO INC
1546 NW 56TH ST # 743
SEATTLE WA 98107-5209
US

84-15-D3 (hex) HUAWEI TECHNOLOGIES CO.,LTD
8415D3 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2
Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

1C-45-86 (hex) Nintendo Co.,Ltd
1C4586 (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

18-5B-00 (hex) Nokia
185B00 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

6C-C4-9F (hex) Aruba, a Hewlett Packard Enterprise Company
6CC49F (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

58-9B-4A (hex) DWnet Technologies(Suzhou) Corporation
589B4A (base 16) DWnet Technologies(Suzhou) Corporation
No.8,Tangzhuang Road, Suzhou Industrial Park, Jiangsu, China
Suzhou 21500

CN

F0-AE-66 (hex) Cosonic Intelligent Technologies Co., Ltd.
F0AE66 (base 16) Cosonic Intelligent Technologies Co., Ltd.
Room 506, No.1 Building, No.6, South Industrial Road, Songshan Lake National High-tech Industrial Development Zone
Dongguan
City, Guangdong Province 523808
CN

3C-A9-16 (hex) Huawei Device Co., Ltd.
3CA916 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

20-80-97 (hex) Shenzhen OXO Technology limited
208097 (base 16) Shenzhen OXO Technology limited
Room 1712-2, Building 4, Tian 'an Yungu Industrial Park, Gangtou Community, Bantian Street, Longgang District
Shenzhen Guangdong 518000
CN

7C-16-89 (hex) Sagemcom Broadband SAS
7C1689 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

5C-83-CD (hex) New platforms
5C83CD (base 16) New platforms
Warshavskoe shosse, 35 bld 1
Moscow 117105
RU

50-7C-6F (hex) Intel Corporate
507C6F (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

7C-A6-2A (hex) Hewlett Packard Enterprise
7CA62A (base 16) Hewlett Packard Enterprise
8000
Foothills Blvd.
Roseville CA 95747
US

30-5A-99 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD

305A99 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

60-4D-E1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
604DE1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

70-4E-6B (hex) HUAWEI TECHNOLOGIES CO.,LTD
704E6B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

60-3D-29 (hex) HUAWEI TECHNOLOGIES CO.,LTD
603D29 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

54-C4-80 (hex) HUAWEI TECHNOLOGIES CO.,LTD
54C480 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan
Lake Technology Park
Dongguan 523808
CN

F4-57-3E (hex) Fiberhome Telecommunication Technologies Co.,LTD
F4573E (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

A8-61-DF (hex) China Mobile Group Device Co.,Ltd.
A861DF (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

70-C6-DD (hex) New H3C Technologies Co., Ltd
70C6DD (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

C4-1C-07 (hex) Samsung Electronics Co.,Ltd
C41C07 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

40-11-C3 (hex) Samsung Electronics Co.,Ltd
4011C3 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C4-7D-9F (hex) Samsung Electronics Co.,Ltd
C47D9F (base 16) Samsung
Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

38-4B-24 (hex) SIEMENS AG
384B24 (base 16) SIEMENS AG
Oestliche Rheinbrückenstraße 50
Karlsruhe Baden-Württemberg 76181
DE

3C-9E-C7 (hex) SKY UK LIMITED
3C9EC7 (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

28-2A-87 (hex) ITEL MOBILE LIMITED
282A87 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

A8-B5-7C (hex) Roku, Inc
A8B57C (base 16) Roku, Inc
1155 Coleman Ave
San Jose CA 95110
US

24-26-BA (hex) Shenzhen Toptel Technology Co., Ltd.
2426BA (base 16) Shenzhen Toptel Technology Co., Ltd.
Floor 6th, Building C, Guancheng Low-carbon Industrial Park, Guangming District
Shenzhen GuangDong 518107
CN

54-6C-EB (hex) Intel Corporate
546CEB (base 16) Intel Corporate
Lot 8, Jalan
Hi-Tech 2/3
Kulim Kedah 09000
MY

00-93-37 (hex) Intel Corporate
009337 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C0-44-42 (hex) Apple, Inc.
C04442 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D4-68-AA (hex) Apple, Inc.
D468AA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F8-C3-CC (hex) Apple, Inc.
F8C3CC (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D8-B0-53 (hex) Xiaomi Communications Co Ltd
D8B053 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

6C-F7-84 (hex) Xiaomi Communications Co Ltd
6CF784 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

10-A5-1D (hex) Intel Corporate
10A51D (base 16) Intel Corporate
Lot

8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

08-8E-90 (hex) Intel Corporate
088E90 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

58-CE-2A (hex) Intel Corporate
58CE2A (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

04-2B-58 (hex) Shenzhen Hanzsung Technology Co.,Ltd
042B58 (base 16) Shenzhen Hanzsung Technology Co.,Ltd
8F,Bldg 3,Guole Technopark,Western Huaning Rd,Dalang,Longhua New District,Shenzhen,China
Shenzhen GuangDong 518109
CN

B8-12-DA (hex) LVSWITCHES INC.
B812DA (base 16) LVSWITCHES INC.
F1 building,New light source base Luocun town,Nanhai district
Foshan Guangdong 528000
CN

A0-D7-F3 (hex) Samsung Electronics Co.,Ltd
A0D7F3 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

D8-66-EE (hex) BOXIN COMMUNICATION CO.,LTD.
D866EE (base 16) BOXIN
COMMUNICATION CO.,LTD.
Room 309Block ANew materials business building
Haidian District Beijing 100094
CN

98-DD-60 (hex) Apple, Inc.
98DD60 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

78-90-A2 (hex) zte corporation

7890A2 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

AC-BC-D9 (hex) Cisco Systems, Inc
ACBCD9 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

70-89-F5 (hex) Dongguan Lingjie IOT Co., LTD
7089F5 (base 16) Dongguan Lingjie IOT Co., LTD
A-708, Zhongke innovation Plaza, Songshan Lake, Dongguan City
dongguan Guangdong 523945
CN

94-31-CB (hex) vivo Mobile Communication Co., Ltd.
9431CB (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

B8-20-8E (hex) Panasonic Connect Co., Ltd.
B8208E (base
16) Panasonic Connect Co., Ltd.
4-1-62 Minoshima, Hakata-ku
Fukuoka-shi Fukuoka 812-8531
JP

84-7B-57 (hex) Intel Corporate
847B57 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

E8-F9-D4 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E8F9D4 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B0-C7-87 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B0C787 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

0C-4F-9B (hex) HUAWEI TECHNOLOGIES CO.,LTD
0C4F9B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

48-2F-D7 (hex) HUAWEI TECHNOLOGIES CO.,LTD
482FD7 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

24-D8-1E
(hex) MirWifi,Joint-Stock Company
24D81E (base 16) MirWifi,Joint-Stock Company
Krasnobogatyrskaya st, building 6/1
Moscow 107564
RU

90-38-0C (hex) Espressif Inc.
90380C (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

7C-21-4A (hex) Intel Corporate
7C214A (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

50-84-92 (hex) Intel Corporate
508492 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

98-80-BB (hex) IEEE Registration Authority
9880BB (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

F0-6C-73 (hex) Nokia
F06C73 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

9C-75-6E (hex) Ajax Systems DMCC
9C756E (base 16) Ajax Systems DMCC
Mazaya Business Avenue
Dubai 04201
AE

B4-3D-08
(hex) GX International BV
B43D08 (base 16) GX International BV
Waldfeuchterbaan 124
Maria Hoop Maria Hoop 6105 BP
NL

64-CB-E9 (hex) LG Innotek
64CBE9 (base 16) LG Innotek
26, Hanamsandan 5beon-ro
Gwangju Gwangsan-gu 506-731
KR

40-B0-A1 (hex) VALCOM CO.,LTD.
40B0A1 (base 16) VALCOM CO.,LTD.
7-25 MINOWA 3-CHOME
TOYONAKA CITY,OSAKA 560-0035
JP

10-3C-59 (hex) zte corporation
103C59 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

60-7D-DD (hex) Shenzhen Shichuangyi Electronics Co.,Ltd
607DDD (base 16) Shenzhen Shichuangyi Electronics Co.,Ltd
East Shangnan Road,Xinqiao Street Bao An District
Shenzhen Guangdong 518101
CN

AC-5E-14 (hex) HUAWEI TECHNOLOGIES CO.,LTD
AC5E14 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

20-DF-73
(hex) HUAWEI TECHNOLOGIES CO.,LTD
20DF73 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park

Dongguan 523808
CN

48-12-8F (hex) HUAWEI TECHNOLOGIES CO.,LTD
48128F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

BC-22-28 (hex) D-Link International
BC2228 (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

94-7F-1D (hex) Shenzhen Fastrain Technology Co., Ltd.
947F1D (base 16) Shenzhen Fastrain Technology Co., Ltd.
No.3 Baolong 4th Rd., Baolong Industrial Area, Longgang District,
Shenzhen GuangDong 518000
CN

A4-C6-9A (hex) Samsung Electronics Co.,Ltd
A4C69A (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

18-7A-3B (hex) Aruba, a Hewlett Packard Enterprise Company
187A3B
(base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

70-B9-BB (hex) Shenzhen Hankvision Technology CO.,LTD
70B9BB (base 16) Shenzhen Hankvision Technology CO.,LTD
Huolibao Building, Gaoxin North Sixth Road, Nanshan District, Shenzhen
Shenzhen 518000
CN

D4-8A-3B (hex) HUNAN FN-LINK TECHNOLOGY LIMITED
D48A3B (base 16) HUNAN FN-LINK TECHNOLOGY LIMITED
No.8, Litong Road, Liuyan Economic & Tec
Changsha HUNAN 410329
CN

40-06-D5 (hex) Cisco Systems, Inc
4006D5 (base 16) Cisco Systems, Inc

80 West Tasman Drive
San Jose CA 94568
US

C4-CA-2B (hex) Arista Networks
C4CA2B (base 16) Arista Networks
5453 Great America Parkway
Santa Clara CA 95054
US

40-CA-63 (hex) Seongji Industry Company
40CA63 (base 16) Seongji Industry Company
54-33, Dongtanhana 1-gil
Hwaseong-si Gyeonggi-do 18423
KR

E4-29-3D (hex) Shenzhen Sy-Fiber Optical
Communication Technology.Co.,Ltd
E4293D (base 16) Shenzhen Sy-Fiber Optical Communication Technology.Co.,Ltd
11/F, Manjinghua Yingshuo Commercial Building, Songgang Street, Baoan District
Shenzhen City Guangdong Provicne 518105
CN

9C-56-36 (hex) Huawei Device Co., Ltd.
9C5636 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

8C-B8-7E (hex) Intel Corporate
8CB87E (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

70-1A-B8 (hex) Intel Corporate
701AB8 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

5C-DF-89 (hex) Ruckus Wireless
5CDF89 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

D0-F5-20 (hex) KYOCERA Corporation

D0F520 (base 16) KYOCERA Corporation
30 Hoji
Kitami, Hokkaido 099-1595
JP

70-B6-4F (hex) Guangzhou V-SOLUTION
Electronic Technology Co., Ltd.
70B64F (base 16) Guangzhou V-SOLUTION Electronic Technology Co., Ltd.
Room 601,Originality Building B2, NO.162 Science Avenue,Science Town
Guangzhou Guangdong 510663
CN

B8-94-70 (hex) Calix Inc.
B89470 (base 16) Calix Inc.
2777 Orchard Pkwy
San Jose CA 95131
US

EC-1C-5D (hex) Siemens AG
EC1C5D (base 16) Siemens AG
Werner-von-Siemens-Str. 50
Amberg 92224
DE

D0-3F-27 (hex) Wyze Labs Inc
D03F27 (base 16) Wyze Labs Inc
4030 Lake Washington Boulevard NE
Kirkland WA 98033
US

50-29-7B (hex) China Mobile Group Device Co.,Ltd.
50297B (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

D0-F1-21 (hex) Xi'an LINKSCI Technology Co., Ltd
D0F121 (base 16) Xi'an LINKSCI Technology Co., Ltd
C301, block C, main building, ZTE Industrial Park, No.10, Tangyan South Road, Hi-tech Zone
Xi'an Shanxi
710076
CN

6C-DD-EF (hex) EPCOMM Inc.
6CDDEF (base 16) EPCOMM Inc.
31072 San Antonio Street
Hayward CA 94544
US

B4-20-5B (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
B4205B (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

78-44-4A (hex) Shenzhen Aiwinn information Technology Co., Ltd.
78444A (base 16) Shenzhen Aiwinn information Technology Co., Ltd.
Room 1001, 10th floor, Building G3, TCL International E city, Shuguang community, Xili street, Nanshan district,
Shenzhen GuangDong 518000
CN

08-8E-DC (hex) Apple, Inc.
088EDC (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A8-4A-28 (hex) Apple, Inc.
A84A28 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D8-BE-1F (hex) Apple, Inc.
D8BE1F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

98-50-2E
(hex) Apple, Inc.
98502E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

58-0A-D4 (hex) Apple, Inc.
580AD4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A4-77-F3 (hex) Apple, Inc.
A477F3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

CC-BC-E3 (hex) HUAWEI TECHNOLOGIES CO.,LTD
CCBCE3 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

08-9E-84 (hex) HUAWEI TECHNOLOGIES CO.,LTD
089E84 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

10-82-D7 (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
1082D7 (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

78-5E-E8 (hex) IEEE
Registration Authority
785EE8 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

9C-40-CD (hex) Synclayer Inc.
9C40CD (base 16) Synclayer Inc.
1-20 Himegaoka
Kani Gifu 5090249
JP

BC-6A-D1 (hex) Xiaomi Communications Co Ltd
BC6AD1 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

08-45-D1 (hex) Cisco Systems, Inc
0845D1 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

84-27-B6 (hex) China Mobile IOT Company Limited
8427B6 (base 16) China Mobile IOT Company Limited
NO.8 Yu Ma Road, NanAn Area

Chongqing Chongqing 401336
CN

10-B7-A8 (hex) CableFree Networks Limited
10B7A8 (base 16) CableFree Networks Limited
G6, Magdalen Centre, The Oxford Science Park, Robert Robinson Avenue
Oxford --- OX4 4GA
GB

08-9B-F1 (hex) eero inc.
089BF1
(base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

30-03-C8 (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
3003C8 (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

2C-B8-ED (hex) SonicWall
2CB8ED (base 16) SonicWall
1033 McCarthy Blvd
Milpitas CA 95035
US

50-0A-52 (hex) Huiwan Technologies Co. Ltd
500A52 (base 16) Huiwan Technologies Co. Ltd
A603,Wuhan University SZ IER Bldg., 6 Yuexing 2nd Rd., Nanshan Dist., Shenzhen
Shenzhen Guang Dong 518108
CN

D4-93-90 (hex) CLEVO CO.
D49390 (base 16) CLEVO CO.
NO. 129, XINGDE ROAD
New TAIPEI CITY 241
TW

B8-8C-29 (hex) GD Midea Air-Conditioning Equipment Co.,Ltd.
B88C29 (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
Midea Global Innovation Center,Beijiao Town,Shunde
Foshan
Guangdong 528311
CN

54-44-A3 (hex) Samsung Electronics Co.,Ltd

5444A3 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

40-9C-A6 (hex) Curvalux
409CA6 (base 16) Curvalux
Electric Works, 3 Concourse Way,
Sheffield S1 2BJ
GB

80-7E-B4 (hex) Shenzhen SuperElectron Technology Co.,Ltd.
807EB4 (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen Guangdong 518000
CN

BC-06-2D (hex) Wacom Co.,Ltd.
BC062D (base 16) Wacom Co.,Ltd.
Sumitomo Fudosan Shinjuku Grand Tower 31F,8-17-1
Nishi-shinjuku,Shinjuku-ku Tokyo 160-6131
JP

3C-93-F4 (hex) HUAWEI TECHNOLOGIES CO.,LTD
3C93F4 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

64-33-B5 (hex) IEEE Registration Authority
6433B5
(base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

18-E2-15 (hex) Nokia
18E215 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

8C-4B-14 (hex) Espressif Inc.
8C4B14 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

18-77-58 (hex) Audoo Limited (UK)
187758 (base 16) Audoo Limited (UK)
Unit 23 – Tileyard London, Tileyard Road
London UK N7 9AH
GB

44-D4-54 (hex) Sagemcom Broadband SAS
44D454 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

68-87-C6 (hex) Cisco Systems, Inc
6887C6 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

80-24-8F (hex) Cisco Systems, Inc
80248F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

50-4B-9E (hex) Huawei
Device Co., Ltd.
504B9E (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

04-7A-AE (hex) Huawei Device Co., Ltd.
047AAE (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

54-A9-D4 (hex) Minibar Systems
54A9D4 (base 16) Minibar Systems
7340 Westmore Road
Rockville MD 20850
US

00-00-62 (hex) BULL HN INFORMATION SYSTEMS
000062 (base 16) BULL HN INFORMATION SYSTEMS
300 CONCORD ROAD M/S 864A
BILLERICA MA 01821
US

B4-E4-54 (hex) Amazon Technologies Inc.
B4E454 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

0C-43-F9 (hex) Amazon Technologies Inc.
0C43F9 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

D4-94-FB (hex) Continental Automotive Systems Inc.
D494FB (base 16) Continental Automotive Systems Inc.
21440
W. Lake Cook Rd.
Deer Park IL 60010
US

D8-80-83 (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
D88083 (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

FC-42-65 (hex) Zhejiang Tmall Technology Co., Ltd.
FC4265 (base 16) Zhejiang Tmall Technology Co., Ltd.
Ali Center,No.3331 Keyuan South RD (Shenzhen bay), Nanshan District, Shenzhen Guangdong province
Shenzhen GuangDong 518000
CN

C8-C9-A3 (hex) Espressif Inc.
C8C9A3 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

E4-3B-C9 (hex) HISENSE VISUAL TECHNOLOGY CO.,LTD
E43BC9 (base 16) HISENSE VISUAL TECHNOLOGY CO.,LTD
Qianwangang Road 218
Qingdao Shandong 266510
CN

50-E7-A0 (hex) Renesas Electronics (Penang) Sdn. Bhd.
50E7A0 (base 16) Renesas
Electronics (Penang) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ

Bayan Lepas Penang 11900
MY

90-E8-68 (hex) AzureWave Technology Inc.
90E868 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

4C-50-F1 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
4C50F1 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

E8-95-26 (hex) Luxshare Precision Industry CO., LTD.
E89526 (base 16) Luxshare Precision Industry CO., LTD.
East Jinshang Road, Jinxi Town, Kunshan City
Jiangsu 215324
CN

10-41-21 (hex) TELLESCOM INDUSTRIA E COMERCIO EM TELECOMUNICACAO
104121 (base 16) TELLESCOM INDUSTRIA E COMERCIO EM TELECOMUNICACAO
Av. Buriti, 1900 – Setor B – Distrito Industrial
Manaus Amazonas 69075-000
BR

BC-D7-A5 (hex) Aruba, a Hewlett Packard Enterprise Company
BCD7A5 (base 16) Aruba, a Hewlett
Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

3C-7A-F0 (hex) ITEL MOBILE LIMITED
3C7AF0 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

48-F3-F3 (hex) Baidu Online Network Technology (Beijing) Co., Ltd
48F3F3 (base 16) Baidu Online Network Technology (Beijing) Co., Ltd
Baidu Campus, No.10 Shangdi 10th Street, Haidian District
Beijing 100085
CN

50-41-1C (hex) AMPAK Technology,Inc.
50411C (base 16) AMPAK Technology,Inc.

3F, No.15-1 Zhonghua Road, Hsinchu Industrail Park, Hukou,
Hsinchu Hsinchu,Taiwan R.O.C. 30352
TW

F4-26-79 (hex) Intel Corporate
F42679 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

44-A9-2C (hex) IEEE Registration Authority
44A92C (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

84-AC-16
(hex) Apple, Inc.
84AC16 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

2C-BC-87 (hex) Apple, Inc.
2CBC87 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

68-F0-D0 (hex) SkyBell Technologies Inc.
68F0D0 (base 16) SkyBell Technologies Inc.
1 Jenner
Irvine CA 92618
US

34-B4-72 (hex) Espressif Inc.
34B472 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

F8-0C-58 (hex) Taicang T&W Electronics
F80C58 (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

38-61-A5 (hex) Grabango Co

3861A5 (base 16) Grabango Co
2000 Allston Way #60
Berkeley CA 94701
US

78-D3-ED (hex) NORMA
78D3ED (base 16) NORMA
Achasan-ro 7na-gil, Seongdong-Gu
Seoul 04795
KR

8C-1E-D9 (hex) Beijing Unigroup Tsingteng Microsystem Co., LTD.
8C1ED9
(base 16) Beijing Unigroup Tsingteng Microsystem Co., LTD.
06F, West District, block D, Tsinghua Tongfang science and Technology Plaza, 1 Wangzhuang Road, Haidian District,
Beijing Beijing 1000083
CN

D4-73-50 (hex) DBG Commnunications Technology Co., Ltd.
D47350 (base 16) DBG Commnunications Technology Co., Ltd.
Building A, No. 5 (DBG Factory), Yongda Road, Xiangshui River,West District of Daya Bay
Huizhou Guangdong 516083
CN

70-DA-17 (hex) Austrian Audio GmbH
70DA17 (base 16) Austrian Audio GmbH
Eitnergasse 15
Vienna Vienna 1230
AT

FC-A8-9B (hex) Texas Instruments
FCA89B (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

98-F0-7B (hex) Texas Instruments
98F07B (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

50-78-B0 (hex) Huawei Device Co., Ltd.
5078B0 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan

Guangdong 523808
CN

E4-07-2B (hex) Huawei Device Co., Ltd.
E4072B (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

B0-37-95 (hex) LG Electronics
B03795 (base 16) LG Electronics
222 LG-ro, JINWI-MYEON
Pyeongtaek-si Gyeonggi-do 451-713
KR

A4-FF-95 (hex) Nokia
A4FF95 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

24-46-E4 (hex) HUAWEI TECHNOLOGIES CO.,LTD
2446E4 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F4-46-37 (hex) Intel Corporate
F44637 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

0C-71-8C (hex) TCT mobile ltd
0C718C (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

24-08-5D (hex) Continental Aftermarket & Services GmbH
24085D
(base 16) Continental Aftermarket & Services GmbH
Sodener Strasse 9
Schwalbach am Taunus Hessen 65824
DE

38-A6-59 (hex) Sagemcom Broadband SAS
38A659 (base 16) Sagemcom Broadband SAS

250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

78-13-05 (hex) IEEE Registration Authority
781305 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

68-1B-EF (hex) HUAWEI TECHNOLOGIES CO.,LTD
681BEF (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

FC-58-DF (hex) Interphone Service
FC58DF (base 16) Interphone Service
Inwestorow, 8
Mielec Select a state or province 39-300
PL

98-10-82 (hex) Nsolution Co., Ltd.
981082 (base 16) Nsolution Co., Ltd.
1001-1, 387, Simin-daero, Dongan-gu
Anyang-si Gyeonggi-do 14057
KR

A8-48-FA (hex) Espressif Inc.
A848FA
(base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

50-5D-7A (hex) zte corporation
505D7A (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

E4-DC-5F (hex) Cofractal, Inc.
E4DC5F (base 16) Cofractal, Inc.
209 E Java Dr. #61593
Sunnyvale CA 94089
US

08-1C-6E (hex) Xiaomi Communications Co Ltd

081C6E (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

CC-89-6C (hex) GN Hearing A/S
CC896C (base 16) GN Hearing A/S
Lautrupbjerg 7
Ballerup 2750
DK

64-50-D6 (hex) Liquidtool Systems
6450D6 (base 16) Liquidtool Systems
Winterseistrasse 22
Hasle-Rüegsau Bern 3415
CH

50-81-40 (hex) HP Inc.
508140 (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

4C-AB-4F
(hex) Apple, Inc.
4CAB4F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

9C-58-3C (hex) Apple, Inc.
9C583C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C4-12-34 (hex) Apple, Inc.
C41234 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

3C-A6-F6 (hex) Apple, Inc.
3CA6F6 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

34-FE-9E (hex) Fujitsu Limited
34FE9E (base 16) Fujitsu Limited
4-1-1 Kamikodanaka, Nakahara-ku
Kawasaki-shi Kanagawa 211-8588
JP

38-45-3B (hex) Ruckus Wireless
38453B (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

78-06-C9 (hex) Huawei Device Co., Ltd.
7806C9 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

E8-A6-CA (hex) Huawei Device Co., Ltd.
E8A6CA (base 16) Huawei Device Co., Ltd.
No.2
of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

CC-FA-66 (hex) Huawei Device Co., Ltd.
CCFA66 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

68-96-6A (hex) OHSUNG
68966A (base 16) OHSUNG
335-4,SANHODAERO,GUMI,GYEONG BUK,KOREA
GUMI GYEONG BUK 730-030
KR

90-2E-16 (hex) LCFC(HeFei) Electronics Technology co., ltd
902E16 (base 16) LCFC(HeFei) Electronics Technology co., ltd
YunGu Road 3188-1
Hefei Anhui 230000
CN

00-09-01 (hex) Shenzhen Shixuntong Information & Technoligy Co
000901 (base 16) Shenzhen Shixuntong Information & Technoligy Co
Room 403,617 Bldg;Bagua 1 Road ,Shenzhen
Shenzhen Guangdong 518029
CN

34-24-3E (hex) zte corporation
34243E (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

98-ED-7E (hex) eero inc.
98ED7E
(base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

2C-48-81 (hex) vivo Mobile Communication Co., Ltd.
2C4881 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

60-26-EF (hex) Aruba, a Hewlett Packard Enterprise Company
6026EF (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

E4-0C-FD (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
E40CFD (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

58-D6-97 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
58D697 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

54-37-BB (hex) Taicang T&W Electronics
5437BB (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

60-F8-F2
(hex) Synaptec
60F8F2 (base 16) Synaptec
204 George Street

Glasgow G1 1XW
GB

F4-63-E7 (hex) Nanjing Maxon O.E. Tech. Co., LTD
F463E7 (base 16) Nanjing Maxon O.E. Tech. Co., LTD
6/F, Building A3, Zidong International Creative Park, Zidong Road, Qixia District, Nanjing
NAN JING JIANG SU 210000
CN

88-AE-DD (hex) EliteGroup Computer Systems Co., LTD
88AEDD (base 16) EliteGroup Computer Systems Co., LTD
No. 239, Sec. 2, Ti ding Blvd.
Taipei City 11493
TW

48-22-18 (hex) Shenzhen Yipingfang Network Technology Co., Ltd.
482218 (base 16) Shenzhen Yipingfang Network Technology Co., Ltd.
21 / F, Kangjia R & D building, No.28, Keji South 12th Road, Nanshan District, Shenzhen City, Guangdong Province, China
Shenzhen Nanshan District 518000
CN

AC-74-B1 (hex) Intel Corporate
AC74B1 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

F4-60-77
(hex) Texas Instruments
F46077 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

1C-3C-D4 (hex) HUAWEI TECHNOLOGIES CO.,LTD
1C3CD4 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F4-E4-51 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F4E451 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A0-E7-0B (hex) Intel Corporate

A0E70B (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

04-EE-EE (hex) Laplace System Co., Ltd.
04EEEE (base 16) Laplace System Co., Ltd.
1-245 Kyo-machi
Fushimi, Kyoto Kyoto 6128083
JP

30-A1-76 (hex) Fiberhome Telecommunication Technologies Co.,LTD
30A176 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

6C-10-8B (hex) WeLink
Communications
6C108B (base 16) WeLink Communications
4186 N Red Maple Court
Lehi UT 84043
US

7C-85-30 (hex) Nokia
7C8530 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

C0-3C-04 (hex) Sagemcom Broadband SAS
C03C04 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

A4-D7-3C (hex) Seiko Epson Corporation
A4D73C (base 16) Seiko Epson Corporation
2070 Kotobuki Koaka
Matsumoto-shi Nagano-ken 399-8702
JP

00-08-08 (hex) PPT Vision, Inc.
000808 (base 16) PPT Vision, Inc.
12988 Valley View Rd.
Eden Prairie MN 55344
US

F8-8E-A1 (hex) Edgecore Networks Corporation
F88EA1 (base 16) Edgecore Networks Corporation
1 Creation RD 3.
Hsinchu 30077
TW

14-89-19 (hex) 2bps
148919 (base 16) 2bps
#1502 , T-dong, Pungrim I-want, 170, Seohyeon-ro
Seongnam-si Gyeonggi-do 13590
KR

58-FD-5D (hex) Hangzhou
Xinyun technology Co., Ltd.
58FD5D (base 16) Hangzhou Xinyun technology Co., Ltd.
Room 803, Block 8, Singapore Science & Technology Park
Hangzhou Zhejiang 310018
CN

A4-55-90 (hex) Xiaomi Communications Co Ltd
A45590 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

08-01-0F (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
08010F (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12,TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road,
Chengdu Sichuan 610000
CN

04-71-53 (hex) SERNET (SUZHOU) TECHNOLOGIES CORPORATION
047153 (base 16) SERNET (SUZHOU) TECHNOLOGIES CORPORATION
NO.8 Tangzhuang Road,Suzhou Industrial Park,Su ZhouCity,JiangSu Province,China
Suzhou 215021
CN

40-C4-8C (hex) N-iTUS CO.,LTD.
40C48C (base 16) N-iTUS CO.,LTD.
NiTUS 85, Deokcheon-ro
Anyang-si Gyeonggi-do,
Korea 14086
KR

4C-71-67 (hex) PoLabs d.o.o.
4C7167 (base 16) PoLabs d.o.o.
Volavlje 30
Ljubljana 1000

SI

48-E7-DA (hex) AzureWave Technology Inc.
48E7DA (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

F8-BA-E6 (hex) Nokia
F8BAE6 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

BC-EC-A0 (hex) COMPAL INFORMATION (KUNSHAN) CO., LTD.
BCECA0 (base 16) COMPAL INFORMATION (KUNSHAN) CO., LTD.
NO. 25, THE 3RD Street KUNSHAN EXPORT PROCESSING ZONE
KUNSHAN SUZHOU 215300
CN

24-A7-99 (hex) Huawei Device Co., Ltd.
24A799 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

7C-3E-74 (hex) Huawei Device Co., Ltd.
7C3E74 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

18-52-07 (hex) Sichuan Tianyi
Comheart Telecom Co.,LTD
185207 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12, TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road,
Chengdu Sichuan 610000
CN

C4-23-60 (hex) Intel Corporate
C42360 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

10-3D-1C (hex) Intel Corporate
103D1C (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3

Kulim Kedah 09000
MY

38-87-D5 (hex) Intel Corporate
3887D5 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

1C-D1-07 (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
1CD107 (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

DC-21-5C (hex) Intel Corporate
DC215C (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

9C-1C-37
(hex) AltoBeam (China) Inc.
9C1C37 (base 16) AltoBeam (China) Inc.
B808, Tsinghua Tongfang Hi-Tech Plaza, Haidian
Beijing Beijing 100083
CN

2C-08-23 (hex) Sercomm France Sarl
2C0823 (base 16) Sercomm France Sarl
2/4 Rue Maurice Hartmann 92370 Issy Les Moulineaux France
Moulineaux 92370
FR

30-8E-7A (hex) Shenzhen iComm Semiconductor CO.,LTD
308E7A (base 16) Shenzhen iComm Semiconductor CO.,LTD
Room 601,Block B ,Digital Building,Garden City
Shenzhen No.1079 Nanhai Road,Nanshan District 518067
CN

B8-A3-77 (hex) Cisco Systems, Inc
B8A377 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E4-4E-2D (hex) Cisco Systems, Inc
E44E2D (base 16) Cisco Systems, Inc

80 West Tasman Drive
San Jose CA 94568
US

98-42-65 (hex) Sagemcom Broadband SAS
984265 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts
de seine 92848
FR

80-65-59 (hex) EM Microelectronic
806559 (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

D0-47-C1 (hex) Elma Electronic AG
D047C1 (base 16) Elma Electronic AG
Hofstrasse 93
Wetzikon Zuerich 8620
CH

E0-C6-3C (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
E0C63C (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12, TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road,
Chengdu Sichuan 610000
CN

C0-CC-42 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
C0CC42 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

78-D9-E9 (hex) MOMENTUM IOT
78D9E9 (base 16) MOMENTUM IOT
100 W. BROADWAY, STE. 500
LONG BEACH CA 90802
US

C8-7B-23 (hex) Bose Corporation
C87B23 (base 16) Bose Corporation
The Mountain
Framingham
MA 01701-9168
US

8C-19-B5 (hex) Arcadyan Corporation
8C19B5 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

D8-9A-C1 (hex) Nokia
D89AC1 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

F0-B1-1D (hex) Nokia
F0B11D (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

7C-D9-F4 (hex) UAB Teltonika Telematics
7CD9F4 (base 16) UAB Teltonika Telematics
Saltoniskiu str. 9B-1
Vilnius LT-08105
LT

F8-97-53 (hex) Huawei Device Co., Ltd.
F89753 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

58-94-AE (hex) Huawei Device Co., Ltd.
5894AE (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

B0-3A-CE (hex) Huawei Device Co., Ltd.
B03ACE (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng
Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

34-AB-95 (hex) Espressif Inc.
34AB95 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

C4-91-CF (hex) Luxul
C491CF (base 16) Luxul
12884 Frontrunner Blvd, Suite 201
Draper UT 84020
US

84-AB-26 (hex) Tiinlab Corporation
84AB26 (base 16) Tiinlab Corporation
35F,Tower A,Tanglang City,3333 Liuxian Avenue,Nanshan District
Shenzhen Guangdong 518000
CN

58-35-6B (hex) TECNO MOBILE LIMITED
58356B (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

F8-4C-DA (hex) HUAWEI TECHNOLOGIES CO.,LTD
F84CDA (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A4-D7-95 (hex) Wingtech
Mobile Communications Co.,Ltd
A4D795 (base 16) Wingtech Mobile Communications Co.,Ltd
No.777,Yazhong Road,Nanhu District
Jiaxing Zhejiang 314001
CN

A4-05-6E (hex) Tiinlab Corporation
A4056E (base 16) Tiinlab Corporation
35F,Tower A,Tanglang City,3333 Liuxian Avenue,Nanshan District
Shenzhen Guangdong 518000
CN

00-04-7D (hex) Motorola Solutions Inc.
00047D (base 16) Motorola Solutions Inc.
500 W Monroe Street, Ste 4400
Chicago IL 60661-3781
US

A8-93-4A (hex) CHONGQING FUGUI ELECTRONICS CO.,LTD.
A8934A (base 16) CHONGQING FUGUI ELECTRONICS CO.,LTD.
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District

Chongqing Chongqing 401332
CN

FC-4E-A4 (hex) Apple, Inc.
FC4EA4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F4-BE-EC (hex) Apple, Inc.
F4BEEC (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

54-E6-1B (hex) Apple,
Inc.
54E61B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

64-64-4A (hex) Beijing Xiaomi Mobile Software Co., Ltd
64644A (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

E8-9E-0C (hex) MAX8USA DISTRIBUTORS INC.
E89E0C (base 16) MAX8USA DISTRIBUTORS INC.
4757 NW 72ND AVENUE
MIAMI FL 33166
US

64-80-8B (hex) VG Controls, Inc.
64808B (base 16) VG Controls, Inc.
11 Butternut Drive
Vernon NJ 07462
US

20-89-6F (hex) Fiberhome Telecommunication Technologies Co.,LTD
20896F (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

F4-FB-B8 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F4FBB8 (base 16) HUAWEI TECHNOLOGIES CO.,LTD

No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-04-AD
(hex) Malibu Networks
0004AD (base 16) Malibu Networks
26637 Agoura Rd.
Calabasas CA 91302
US

CC-68-B6 (hex) TP-Link Corporation Limited
CC68B6 (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

14-DD-9C (hex) vivo Mobile Communication Co., Ltd.
14DD9C (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

CC-33-31 (hex) Texas Instruments
CC3331 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

A4-39-B6 (hex) SHENZHEN PEIZHE MICROELECTRONICS CO .LTD
A439B6 (base 16) SHENZHEN PEIZHE MICROELECTRONICS CO .LTD
1110 Nanshan Street, Nanshan District, Shenzhen, China Petroleum Building 2012
Shenzhen 518000
CN

BC-FF-4D (hex) Espressif Inc.
BCFF4D (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai
Shanghai 201203
CN

C4-5B-BE (hex) Espressif Inc.
C45BBE (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

00-26-18 (hex) ASUSTek COMPUTER INC.
002618 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd.,Peitou,Taipei 112 ,Taiwan
Taipei Taiwan 112
TW

A0-70-B7 (hex) HUAWEI TECHNOLOGIES CO.,LTD
A070B7 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

78-B5-54 (hex) Huawei Device Co., Ltd.
78B554 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

68-9E-6A (hex) Huawei Device Co., Ltd.
689E6A (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

28-2B-96 (hex) Huawei Device Co., Ltd.
282B96 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road,
Songshan Lake Zone
Dongguan Guangdong 523808
CN

1C-D1-E0 (hex) Cisco Systems, Inc
1CD1E0 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E8-FD-35 (hex) Huawei Device Co., Ltd.
E8FD35 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

EC-C5-D2 (hex) Huawei Device Co., Ltd.
ECC5D2 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

24-45-6B (hex) Huawei Device Co., Ltd.
24456B (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

48-38-71 (hex) Huawei Device Co., Ltd.
483871 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

44-BD-DE (hex) BHTC GmbH
44BDDE (base 16) BHTC GmbH
Hansastrasse 40
Lippstadt 59557
DE

8C-2A-8E
(hex) DongGuan Ramaxel Memory Technology
8C2A8E (base 16) DongGuan Ramaxel Memory Technology
No.32, Industrial East Road,Innovation Park, High-tech Industrial Development Zone, Songshan Lake, Dongguan City, Guangdong Province,China
DongGuan Guangdong 523808
CN

80-07-1B (hex) VSOLUTION TELECOMMUNICATION TECHNOLOGY CO.,LTD.
80071B (base 16) VSOLUTION TELECOMMUNICATION TECHNOLOGY CO.,LTD.
Room 601,Originality Building B2, NO.162 Science Avenue,Science Town
Guangzhou Guangdong 510663
CN

B8-14-DB (hex) OHSUNG
B814DB (base 16) OHSUNG
335-4,SANHODAERO,GUMI,GYEONG BUK,KOREA
GUMI GYEONG BUK 730-030
KR

FC-13-F0 (hex) Bouffalo Lab (Nanjing) Co., Ltd.
FC13F0 (base 16) Bouffalo Lab (Nanjing) Co., Ltd.
5F, Gongxiang Space, No.100 Tuanjie Road, Nanjing, China
Nanjing Jiangsu 211800
CN

FC-9C-98 (hex) Arlo Technology
FC9C98 (base 16) Arlo Technology
3030 Orchard Parkway

San Jose CA 95134
US

B4-60-8C
(hex) Fiberhome Telecommunication Technologies Co.,LTD
B4608C (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

40-44-FD (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
4044FD (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

64-6E-E0 (hex) Intel Corporate
646EE0 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

04-56-E5 (hex) Intel Corporate
0456E5 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

88-46-04 (hex) Xiaomi Communications Co Ltd
884604 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

F4-02-23 (hex) PAX Computer Technology(Shenzhen) Ltd.
F40223 (base
16) PAX Computer Technology(Shenzhen) Ltd.
4/F, No.3 Building, Software Park, Second Central Science-Tech Road, High-Tech
Shenzhen GuangDong 518057
CN

64-79-F0 (hex) Intel Corporate
6479F0 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

08-10-86 (hex) NEC Platforms, Ltd.

081086 (base 16) NEC Platforms, Ltd.
2-3 Kandatsukasamachi
Chiyodaku Tokyo 101-8532
JP

78-65-3B (hex) Shaoxing Ourten Electronics Co., Ltd.
78653B (base 16) Shaoxing Ourten Electronics Co., Ltd.
3rd Floor # 7, No. 1732 Yanhua industrial park West Renmin Road,Shangyu
Shaoxing Zhejiang 312000
CN

E0-E6-56 (hex) Nethesis srl
E0E656 (base 16) Nethesis srl
strada degli olmi 12
Pesaro Pesaro e Urbino 61122
IT

84-1E-A3 (hex) Sagemcom Broadband SAS
841EA3 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

1C-6E-E6 (hex) NHNETWORKS
1C6EE6
(base 16) NHNETWORKS
54,Chemdanyeonsin-ro 30beon-gil,Buk-gu
Gwangju 61080
KR

08-F6-06 (hex) zte corporation
08F606 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

84-D6-08 (hex) Wingtech Mobile Communications Co., Ltd.
84D608 (base 16) Wingtech Mobile Communications Co., Ltd.
No.777,Yazhong Road,Nanhu District,
Jiaxing Zhejiang 314006
CN

34-68-93 (hex) Tecnovideo Srl
346893 (base 16) Tecnovideo Srl
Via A. De Gasperi, 3
Villaverla Vicenza 36030
IT

00-20-C1 (hex) SAXA, Inc.
0020C1 (base 16) SAXA, Inc.
NBF Platinum Tower 1-17-3 Shirokane
Tokyo 108-8050
JP

4C-F2-02 (hex) Xiaomi Communications Co Ltd
4CF202 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

24-69-68 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
246968
(base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

FC-A9-DC (hex) Renesas Electronics (Penang) Sdn. Bhd.
FCA9DC (base 16) Renesas Electronics (Penang) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

FC-58-4A (hex) xiamenshi c-chip technology co., ltd
FC584A (base 16) xiamenshi c-chip technology co., ltd
Baoyuan Road
Shenzhen City Guangdong Province 518101
CN

28-D3-EA (hex) Huawei Device Co., Ltd.
28D3EA (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

A8-F2-66 (hex) Huawei Device Co., Ltd.
A8F266 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

CC-9C-3E (hex) Cisco Meraki
CC9C3E (base 16) Cisco Meraki
500 Terry
A. Francois Blvd
San Francisco 94158

US

48-29-E4 (hex) AO
4829E4 (base 16) AO
Prospekt Mira
Moscow 129223
RU

84-26-7A (hex) GUANGDONG TAIDE ZHILIAN TECHNOLOGY CO.,LTD
84267A (base 16) GUANGDONG TAIDE ZHILIAN TECHNOLOGY CO.,LTD
Taide Technology Park,Jinfenghuang Industrial District, Fenggang Town,
Dongguan GUANGDONG 523000
CN

6C-47-60 (hex) Sunitec Enterprise Co.,Ltd
6C4760 (base 16) Sunitec Enterprise Co.,Ltd
3F.,No.98-1,Mincyuan Rd.Sindian City
Taipei County 231 231141
CN

3C-7A-AA (hex) China Dragon Technology Limited
3C7AAA (base 16) China Dragon Technology Limited
B4 Bldg.Haoshan 1st Industry Park,
Shenzhen Guangdong 518104
CN

84-FD-27 (hex) Silicon Laboratories
84FD27 (base 16) Silicon Laboratories
400 West Cesar Chavez Street
Austin 78701
US

90-23-B4 (hex) New H3C Technologies Co., Ltd
9023B4 (base 16) New H3C Technologies Co., Ltd
466
Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

88-2A-5E (hex) New H3C Technologies Co., Ltd
882A5E (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

18-32-19 (hex) EM Microelectronic
183219 (base 16) EM Microelectronic
Rue des Sors 3

Marin-Epagnier Neuchatel 2074
CH

3C-9B-C6 (hex) Huawei Device Co., Ltd.
3C9BC6 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

00-36-BE (hex) Northwest Towers
0036BE (base 16) Northwest Towers
12119 NE 99th St, Suite 2000
Vancouver WA 98682
US

A4-5E-5A (hex) ACTIVIO Inc.
A45E5A (base 16) ACTIVIO Inc.
Takeuchi Lorie Bldg. Room 503, 1-34-12, Takadanobaba
Shinjuku-ku Tokyo 1690075
JP

7C-50-79 (hex) Intel Corporate
7C5079 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

80-38-FB
(hex) Intel Corporate
8038FB (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

64-26-56 (hex) Shenzhen Fanweitai Technology Service Co.,Ltd
642656 (base 16) Shenzhen Fanweitai Technology Service Co.,Ltd
Room 408, 4 / F, Jinqi Zhigu Building, 1 Tangling Road, Nanshan District, Shenzhen
Shenzhen 518000
CN

54-09-10 (hex) Apple, Inc.
540910 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

9C-FC-28 (hex) Apple, Inc.
9CFC28 (base 16) Apple, Inc.

1 Infinite Loop
Cupertino CA 95014
US

B4-85-E1 (hex) Apple, Inc.
B485E1 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

0C-19-F8 (hex) Apple, Inc.
0C19F8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

50-1F-C6 (hex) Apple, Inc.
501FC6 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

CC-69-FA (hex) Apple,
Inc.
CC69FA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

10-CE-E9 (hex) Apple, Inc.
10CEE9 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

74-9A-C0 (hex) Cachengo, Inc.
749AC0 (base 16) Cachengo, Inc.
9575 Hwy 22
Huntingdon TN 38344
US

34-58-7C (hex) MIRAE INFORMATION TECHNOLOGY CO., LTD.
34587C (base 16) MIRAE INFORMATION TECHNOLOGY CO., LTD.
GYEONGGI-DO
SEONGNAM-SI JUNGWON-GU 13376
KR

08-B4-B1 (hex) Google, Inc.

08B4B1 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

A8-77-E5 (hex) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
A877E5 (base 16) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
Unit East Block22-24/F,Skyworth semiconductor design Bldg., Gaoxin Ave.4.S.,Nanshan District,Shenzhen,China
SHENZHEN GUANGDONG 518057
CN

10-A4-DA (hex) HUAWEI TECHNOLOGIES CO.,LTD
10A4DA (base 16) HUAWEI TECHNOLOGIES
CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

38-20-28 (hex) HUAWEI TECHNOLOGIES CO.,LTD
382028 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E4-77-27 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E47727 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

5C-56-A4 (hex) Wanan Hongsheng Electronic Co.Ltd
5C56A4 (base 16) Wanan Hongsheng Electronic Co.Ltd
1st section of industrial pack,Wan'An County,Ji'An City,jiangxi province
Wanan China/jiangxi 343800
CN

10-51-07 (hex) Intel Corporate
105107 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

AC-74-C4 (hex) Maytronics Ltd.
AC74C4 (base 16) Maytronics Ltd.
Kibbutz Yizrael
Kibbutz Yizrael 1935000
IL

F4-B3-01 (hex) Intel
Corporate
F4B301 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

E8-D2-FF (hex) Sagemcom Broadband SAS
E8D2FF (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

0C-96-CD (hex) MERCURY CORPORATION
0C96CD (base 16) MERCURY CORPORATION
90, Gajaeul-ro, Seo-gu
INCHEON 22830
KR

A0-3B-01 (hex) Kyung In Electronics
A03B01 (base 16) Kyung In Electronics
#1411, Byucksan Digital Valley 2, 184, Gasan Digital2-ro, Geumcheon-gu
Seoul 08501
KR

14-5E-69 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
145E69 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

A0-A3-F0 (hex) D-Link International
A0A3F0 (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

84-65-69
(hex) New H3C Technologies Co., Ltd
846569 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

34-F7-16 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
34F716 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057

CN

AC-82-47 (hex) Intel Corporate
AC8247 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

F0-25-8E (hex) HUAWEI TECHNOLOGIES CO.,LTD
F0258E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

9C-74-6F (hex) HUAWEI TECHNOLOGIES CO.,LTD
9C746F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E0-6C-4E (hex) Shenzhen TINNO Mobile Technology Corp.
E06C4E (base
16) Shenzhen TINNO Mobile Technology Corp.
Building, No.33, Xiandong Rd, Xili
Nanshan District, Shenzhen PRC 518053
CN

50-55-8D (hex) China Mobile IOT Company Limited
50558D (base 16) China Mobile IOT Company Limited
NO.8 Yu Ma Road, NanAn Area
Chongqing Chongqing 401336
CN

28-1B-04 (hex) Zalliant LLC
281B04 (base 16) Zalliant LLC
425 Truax Road
Amsterdam NY 12010
US

18-CE-94 (hex) Samsung Electronics Co.,Ltd
18CE94 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

78-37-16 (hex) Samsung Electronics Co.,Ltd
783716 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong

Gumi Gyeongbuk 730-350
KR

64-E0-03 (hex) Hui Zhou Gaoshengda Technology Co.,LTD
64E003 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.75,Zhongkai High-Tech Development District,Huizhou
Hui Zhou Guangdong 516006
CN

E8-A0-CD (hex) Nintendo Co.,Ltd
E8A0CD
(base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

9C-82-3F (hex) Huawei Device Co., Ltd.
9C823F (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

54-F6-07 (hex) Huawei Device Co., Ltd.
54F607 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

7C-52-59 (hex) Sichuan Jiuzhou Electronic Technology Co., Ltd.
7C5259 (base 16) Sichuan Jiuzhou Electronic Technology Co., Ltd.
No. 259, Jiuzhou Road
Mianyang City Sichuan Province 621000
CN

C4-E2-87 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C4E287 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

48-4C-29 (hex) HUAWEI TECHNOLOGIES CO.,LTD
484C29 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan
Lake Technology Park
Dongguan 523808
CN

04-5F-B9 (hex) Cisco Systems, Inc

045FB9 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

10-2F-A3 (hex) Shenzhen Uvision-tech Technology Co.Ltd
102FA3 (base 16) Shenzhen Uvision-tech Technology Co.Ltd
shenzhen longhua Street
shenzhen GuangDong 518000
CN

C4-D4-38 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C4D438 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

14-3F-A6 (hex) Sony Home Entertainment&Sound Products Inc
143FA6 (base 16) Sony Home Entertainment&Sound Products Inc
Sony City Osaki 2-10-1 Osaki Shinagawa-ku
Tokyo Japan 141-8610
JP

74-8B-29 (hex) Micobiomed
748B29 (base 16) Micobiomed
54 Changeop-ro
54 Changeop-ro Gyeonggi-do 13449
KR

E8-F4-08 (hex) Intel Corporate
E8F408 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3

Kulim Kedah 09000
MY

44-D4-53 (hex) Sagemcom Broadband SAS
44D453 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

DC-CD-74 (hex) Japan E.M.Solutions Co., Ltd.
DCCD74 (base 16) Japan E.M.Solutions Co., Ltd.
35 Saho
Kato 673-1447
JP

04-49-5D (hex) Huawei Device Co., Ltd.
04495D (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

F0-FE-E7 (hex) Huawei Device Co., Ltd.
F0FEE7 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

54-21-1D (hex) Huawei Device Co., Ltd.
54211D (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

DC-A1-20 (hex) Nokia
DCA120 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

50-52-3B (hex) Nokia
50523B
(base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

58-B0-FE (hex) Team EPS GmbH
58B0FE (base 16) Team EPS GmbH
Am Herdicksbach 2 - Halle 9
Waltrop 45731
DE

90-C7-92 (hex) ARRIS Group, Inc.
90C792 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

5C-6F-69 (hex) Broadcom Limited
5C6F69 (base 16) Broadcom Limited
15191 Alton Parkway
Irvine CA 92618
US

D0-12-CB (hex) AVM Audiovisuelles Marketing und Computersysteme GmbH
D012CB (base 16) AVM Audiovisuelles Marketing und Computersysteme GmbH
Alt-Moabit 95
Berlin Berlin 10559
DE

20-FF-36 (hex) IFLYTEK CO.,LTD.
20FF36 (base 16) IFLYTEK CO.,LTD.
National Intelligent Speech High-tech Industrialization Base, No. 666, Wangjiang Road West,
Hefei An hui 230088
CN

24-06-AA (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
2406AA (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS
CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

8C-AE-49 (hex) IEEE Registration Authority
8CAE49 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

24-64-9F (hex) Huawei Device Co., Ltd.
24649F (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

0C-17-73 (hex) Huawei Device Co., Ltd.
0C1773 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

E8-1E-92 (hex) Huawei Device Co., Ltd.
E81E92 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

88-8E-68 (hex) Huawei Device Co., Ltd.
888E68 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808

CN

80-74-84 (hex) ALL Winner (Hong Kong) Limited
807484 (base 16) ALL
Winner (Hong Kong) Limited
Unit No.1301,13F,Sunbeam Plaza,1155 Canton Road,Mongkok,Kowloon,Hong Kong
Hong Kong 999077
CN

88-23-8C (hex) Fiberhome Telecommunication Technologies Co.,LTD
88238C (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

78-CF-2F (hex) HUAWEI TECHNOLOGIES CO.,LTD
78CF2F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A8-3B-5C (hex) HUAWEI TECHNOLOGIES CO.,LTD
A83B5C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A8-CC-6F (hex) HMD Global Oy
A8CC6F (base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo 02600
FI

98-9A-B9 (hex) zte corporation
989AB9 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

4C-20-B8
(hex) Apple, Inc.
4C20B8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-31-92 (hex) TP-Link Corporation Limited
003192 (base 16) TP-Link Corporation Limited

Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

84-30-95 (hex) Hon Hai Precision IND.CO.,LTD
843095 (base 16) Hon Hai Precision IND.CO.,LTD
No. 66 Chung Shan Road TU-Cheng Industrial district TAIPEI TAIWAN
TAIPEI TAIWAN 33859
CN

00-8A-55 (hex) Huawei Device Co., Ltd.
008A55 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

64-A2-8A (hex) Huawei Device Co., Ltd.
64A28A (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

AC-47-1B (hex) Huawei Device Co., Ltd.
AC471B (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan
Lake Zone
Dongguan Guangdong 523808
CN

A4-CC-B9 (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
A4CCB9 (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

6C-B8-81 (hex) zte corporation
6CB881 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

EC-0D-E4 (hex) Amazon Technologies Inc.
EC0DE4 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

B0-45-30 (hex) SKY UK LIMITED

B04530 (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

6C-A0-B4 (hex) SKY UK LIMITED
6CA0B4 (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

14-88-E6 (hex) Apple, Inc.
1488E6 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B4-56-E3 (hex) Apple,
Inc.
B456E3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

BC-5B-D5 (hex) ARRIS Group, Inc.
BC5BD5 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

24-11-45 (hex) Xiaomi Communications Co Ltd
241145 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

78-95-EB (hex) ITEL MOBILE LIMITED
7895EB (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

B0-BB-E5 (hex) Sagemcom Broadband SAS
B0BBE5 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

8C-FD-DE (hex) Sagemcom Broadband SAS
8CFDDE (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

1C-9F-4E (hex) COOSEA
GROUP (HK) COMPANY LIMITED
1C9F4E (base 16) COOSEA GROUP (HK) COMPANY LIMITED
UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI
KL 999077
HK

A4-68-BC (hex) Oakley Inc.
A468BC (base 16) Oakley Inc.
1 Icon
Foothill Ranch CA 92610
US

B0-C5-3C (hex) Cisco Systems, Inc
B0C53C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

EC-CE-13 (hex) Cisco Systems, Inc
ECCE13 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

08-65-F0 (hex) JM Zengge Co., Ltd
0865F0 (base 16) JM Zengge Co., Ltd
5/F Torch building, Jinou Road#288, Jianghai District
Jiangmen Guangdong 529080
CN

3C-61-05 (hex) Espressif Inc.
3C6105 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

60-7E-A4 (hex) Shanghai Imilab Technology Co.Ltd
607EA4 (base 16) Shanghai Imilab Technology
Co.Ltd
29F, A Tower, New Caohejing International Business Center, Guiping Road, Xuhui District
Shanghai Shanghai 200000

CN

48-D8-90 (hex) FN-LINK TECHNOLOGY LIMITED
48D890 (base 16) FN-LINK TECHNOLOGY LIMITED
A Building,HuiXin industial park,No 31, YongHe road, Fuyong town, Bao'an District
SHENZHEN GUANGDONG 518100
CN

78-1F-11 (hex) RAB Lighting
781F11 (base 16) RAB Lighting
Northvale (NJ) 141 Legrand Ave. Northvale, NJ 07647
Northvale NJ 07647
US

14-AB-02 (hex) HUAWEI TECHNOLOGIES CO.,LTD
14AB02 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C4-18-E9 (hex) Samsung Electronics Co.,Ltd
C418E9 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

1C-E5-7F (hex) Samsung Electronics Co.,Ltd
1CE57F (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk
730-350
KR

08-55-31 (hex) Routerboard.com
085531 (base 16) Routerboard.com
Mikrotikls SIA
Riga Riga LV1009
LV

8C-55-BB (hex) Songwoo Information & Technology Co., Ltd
8C55BB (base 16) Songwoo Information & Technology Co., Ltd
24-9, Jinju-daero 404beon-gil, Jinju-si, Gyeongsangnam-do, Korea
Jinju Gyeongsangnam-do 52826
KR

7C-8F-DE (hex) DWnet Technologies(Suzhou) Corporation
7C8FDE (base 16) DWnet Technologies(Suzhou) Corporation
No.8,Tangzhuang Road, Suzhou Industrial Park, Jiangsu, China

Suzhou 21500
CN

08-38-E6 (hex) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
0838E6 (base 16) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
No.19, Gaoxin 4th Road, Wuhan East Lake High-tech Zone, Wuhan
Wuhan Hubei 430000
CN

E8-C2-DD (hex) Infinix mobility limited
E8C2DD (base 16) Infinix mobility limited
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR
CITY 17 CANTON RD TST KLN HONG KONG
HongKong HongKong 999077
HK

C4-1C-9C (hex) JiQiDao
C41C9C (base 16) JiQiDao
No.19, SuYuan Avenue, Jiangning District
NanJing Jiangsu 210000
CN

84-71-27 (hex) Silicon Laboratories
847127 (base 16) Silicon Laboratories
400 West Cesar Chavez Street
Austin TX 78701
US

98-F1-81 (hex) New H3C Technologies Co., Ltd
98F181 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

F0-F7-E7 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F0F7E7 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-04-2B (hex) IT Access Co., Ltd.
00042B (base 16) IT Access Co., Ltd.
3-17-6, Shinyokohama, Kouhoku-ku
Yokohama-shi Kanagawa 222-8545
JP

40-A9-CF (hex) Amazon Technologies Inc.
40A9CF (base 16) Amazon Technologies Inc.

P.O Box 8102
Reno
NV 89507
US

90-80-8F (hex) Huawei Device Co., Ltd.
90808F (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

10-71-00 (hex) Huawei Device Co., Ltd.
107100 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

F8-B9-5A (hex) LG Innotek
F8B95A (base 16) LG Innotek
26, Hanamsandan 5beon-ro
Gwangju Gwangsan-gu 506-731
KR

D4-4F-67 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D44F67 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B4-FF-98 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B4FF98 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

58-95-D8 (hex) IEEE Registration Authority
5895D8 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway
NJ 08554
US

F8-0D-AC (hex) HP Inc.
F80DAC (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

E4-47-91 (hex) Iris ID Systems, Inc.
E44791 (base 16) Iris ID Systems, Inc.
8 Clarke Drive
Cranbury 08512
US

F0-13-C1 (hex) Hannto Technology Co., Ltd
F013C1 (base 16) Hannto Technology Co., Ltd
Rm 704,No.1,Lane 88,Shengrong Road, Free Trade Pilot Area,
Shanghai Shanghai 200120
CN

88-50-F6 (hex) Shenzhen Jingxun Software Telecommunication Technology Co.,Ltd
8850F6 (base 16) Shenzhen Jingxun Software Telecommunication Technology Co.,Ltd
3/F,A5 Building Zhiyuan Community No.1001,Xueyuan Road Nanshan Distric
Shenzhen Guangdong 518055
CN

84-9D-C2 (hex) Shanghai MXCHIP Information Technology Co., Ltd.
849DC2 (base 16) Shanghai MXCHIP Information Technology Co., Ltd.
9th Floor, No. 5 Building, 2145 Jinshajiang Rd., Putuo District
Shanghai 200333
CN

18-45-16
(hex) Texas Instruments
184516 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

D0-2E-AB (hex) Texas Instruments
D02EAB (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

84-54-DF (hex) Huawei Device Co., Ltd.
8454DF (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

40-B5-C1 (hex) Cisco Systems, Inc
40B5C1 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E8-84-A5 (hex) Intel Corporate
E884A5 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-C0-35 (hex) QUINTAR COMPANY
00C035 (base 16) QUINTAR COMPANY
370 AMAPOLA AVE., STE.#106
TORRANCE CA 90501
US

04-05-DD (hex) Shenzhen Cultraview Digital Technology Co., Ltd
0405DD (base 16) Shenzhen Cultraview Digital Technology Co., Ltd
F6,M6,Maqueling, High-tech park, Nanshan district
Shenzhen
Guangdong 518057
CN

38-97-A4 (hex) ELECOM CO.,LTD.
3897A4 (base 16) ELECOM CO.,LTD.
2F Kudan First Place Bldg. 4-1-28
Chiyoda-ku Kudan Kita 102-0073
JP

E4-33-AE (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
E433AE (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

38-7A-3C (hex) Fiberhome Telecommunication Technologies Co.,LTD
387A3C (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

8C-CE-4E (hex) Espressif Inc.
8CCE4E (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

1C-50-1E (hex) Sunplus Technology Co., Ltd.
1C501E (base 16) Sunplus Technology Co., Ltd.
19, Innovation First Road, Hsinchu Science Park
Hsinchu 300

TW

40-95-05 (hex) ACOINFO TECHNOLOGY CO.,LTD
409505 (base
16) ACOINFO TECHNOLOGY CO.,LTD
Building No.12,Zhongguancun Cuihu Technology Park,Haidian District,Beijing,China
Beijing 100095
CN

5C-D8-9E (hex) Huawei Device Co., Ltd.
5CD89E (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

DC-E9-94 (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
DCE994 (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

B8-2D-28 (hex) AMPAK Technology,Inc.
B82D28 (base 16) AMPAK Technology,Inc.
3F, No.15-1 Zhonghua Road, Hsinchu Industrail Park, Hukou,
Hsinchu Hsinchu,Taiwan R.O.C. 30352
TW

A4-13-4E (hex) Luxul
A4134E (base 16) Luxul
14203 Minuteman Drive
Draper UT 84020
US

FC-66-CF (hex) Apple, Inc.
FC66CF (base 16) Apple, Inc.
1 Infinite Loop
Cupertino
CA 95014
US

AC-1D-06 (hex) Apple, Inc.
AC1D06 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

44-A8-FC (hex) Apple, Inc.
44A8FC (base 16) Apple, Inc.

1 Infinite Loop
Cupertino CA 95014
US

F8-10-93 (hex) Apple, Inc.
F81093 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B8-5F-98 (hex) Amazon Technologies Inc.
B85F98 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

D8-F8-83 (hex) Intel Corporate
D8F883 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

B4-36-D1 (hex) Renesas Electronics (Penang) Sdn. Bhd.
B436D1 (base 16) Renesas Electronics (Penang) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

14-A9-D0 (hex) F5 Networks, Inc.
14A9D0 (base 16) F5 Networks, Inc.
801 5th Avenue
Seattle WA 98104
US

00-0A-49 (hex) F5 Networks, Inc.
000A49 (base
16) F5 Networks, Inc.
401 Elliott Ave. W.
Seattle WA 98119
US

00-94-A1 (hex) F5 Networks, Inc.
0094A1 (base 16) F5 Networks, Inc.
401 Elliott Ave. W.
Seattle WA 98119
US

80-F1-F1 (hex) Tech4home, Lda

80F1F1 (base 16) Tech4home, Lda
Rua de Fundoes N151
Sao Joao da Madeira Aveiro 3700-121
PT

DC-77-4C (hex) Cisco Systems, Inc
DC774C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

20-44-41 (hex) Remote Solution
204441 (base 16) Remote Solution
71, Gunpo Cheom Dan San eop 2-ro
Gunpo-si Gyeonggi-do 15880
KR

FC-44-82 (hex) Intel Corporate
FC4482 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

A0-85-FC (hex) Microsoft Corporation
A085FC (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

10-19-65 (hex) New H3C Technologies Co., Ltd
101965 (base 16) New H3C Technologies
Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

94-FF-61 (hex) China Mobile Group Device Co.,Ltd.
94FF61 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

00-61-51 (hex) HUAWEI TECHNOLOGIES CO.,LTD
006151 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

BC-76-C5 (hex) HUAWEI TECHNOLOGIES CO.,LTD
BC76C5 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

5C-02-72 (hex) Silicon Laboratories
5C0272 (base 16) Silicon Laboratories
400 West Cesar Chavez Street
Austin TX 78701
US

00-04-30 (hex) Netgem
000430 (base 16) Netgem
27 rue d'Orleans

FR

04-46-CF (hex) Beijing Venustech Cybervision Co.,Ltd.
0446CF (base 16) Beijing Venustech Cybervision
Co.,Ltd.
Venus Plaza No.21Zhongguancun Software Park,No.8 Dongbeiwang Xilu, Haidian District
Beijing Beijing 100193
CN

B8-80-35 (hex) Shenzhen Qihu Intelligent Technology Company Limited
B88035 (base 16) Shenzhen Qihu Intelligent Technology Company Limited
Room 201, Block A, No.1, Qianwan Road 1,Qianhai Shenzhen HongKong Modern Service Industry Cooperation Zone
Shenzhen Guangdong 518057
CN

90-12-A1 (hex) We Corporation Inc.
9012A1 (base 16) We Corporation Inc.
201, 33, Deokcheon-ro, Manan-gu
Anyang-si Gyeonggi-do 14088
KR

64-B6-23 (hex) Schrack Seconet Care Communication GmbH
64B623 (base 16) Schrack Seconet Care Communication GmbH
Eibesbrunnergasse 18
Vienna 1120
AT

E8-1B-69 (hex) Sercomm Corporation.
E81B69 (base 16) Sercomm Corporation.
3F,No.81,Yu-Yih Rd.,Chu-Nan Chen
Miao-Lih Hsuan 115

TW

68-52-D6 (hex) UGame Technology Co.,Ltd
6852D6 (base 16) UGame Technology
Co.,Ltd
3F, Bld.7, F518 Idea Land, No. 1065 Baoyuan Road, Xixiang Street, Baoan District
Shenzhen 518102
CN

FC-19-99 (hex) Xiaomi Communications Co Ltd
FC1999 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

CC-87-4A (hex) Nokia
CC874A (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

A4-51-29 (hex) XAG
A45129 (base 16) XAG
Block C, 115 Gaopu Road
Guangzhou 510663
CN

B4-C2-6A (hex) Garmin International
B4C26A (base 16) Garmin International
1200 E. 151st St
Olathe KS 66062
US

78-F8-B8 (hex) Rako Controls Ltd
78F8B8 (base 16) Rako Controls Ltd
Knight Road
Rochester Kent ME2 2AH
GB

6C-E5-F7 (hex) New H3C Technologies Co., Ltd
6CE5F7 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

B8-DD-71 (hex) zte
corporation
B8DD71 (base 16) zte corporation

12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

F4-E5-78 (hex) LLC Proizvodstvennaya Kompania TransService
F4E578 (base 16) LLC Proizvodstvennaya Kompania TransService
Ulitsa Podolskih Kursantov, build. 3, of. 133
Moscow Moscow 117545
RU

08-54-BB (hex) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
0854BB (base 16) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
Unit East Block22-24/F,Skyworth semiconductor design Bldg., Gaoxin Ave.4.S.,Nanshan District,Shenzhen,China
SHENZHEN GUANGDONG 518057
CN

3C-B1-5B (hex) Avaya Inc
3CB15B (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

58-65-E6 (hex) infomark
5865E6 (base 16) infomark
#801, KINS TOWER, JEONGJA-DONG
SEONGNAM GYOUNGGI 463-847
KR

08-FB-EA (hex) AMPAK Technology,Inc.
08FBEA (base 16) AMPAK Technology,Inc.
3F, No.15-1 Zhonghua
Road, Hsinchu Industrail Park, Hukou,
Hsinchu Hsinchu,Taiwan R.O.C. 30352
TW

3C-9C-0F (hex) Intel Corporate
3C9C0F (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-0E-FF (hex) Megasolution,Inc.
000EFF (base 16) Megasolution,Inc.
2-7-10 Shitaya
Taito TOKYO 110-0004
JP

70-2C-09 (hex) Nintendo Co.,Ltd

702C09 (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

E4-D3-73 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E4D373 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C0-BC-9A (hex) HUAWEI TECHNOLOGIES CO.,LTD
C0BC9A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

5C-44-3E (hex) Skullcandy
5C443E (base 16) Skullcandy
6301 N. Landmark Dr.
Park City UT 84098
US

F8-82-00
(hex) CaptionCall
F88200 (base 16) CaptionCall
4215 Riverboat Road
Salt Lake City UT 84123
US

00-50-F1 (hex) Maxlinear, Inc
0050F1 (base 16) Maxlinear, Inc
94 Em-Hamoshavot Way.
Petach-Tikva
IL

1C-5D-80 (hex) Mitubishi Hitachi Power Systems Industries Co., Ltd.
1C5D80 (base 16) Mitubishi Hitachi Power Systems Industries Co., Ltd.
Nakaku Aioimachi
Yokohama 2310012
JP

60-EB-5A (hex) Asterfusion Data Technologies Co.,Ltd
60EB5A (base 16) Asterfusion Data Technologies Co.,Ltd
B401, Building 2, Creative Industry Park, No.328 Xinghu Street, SIP, Suzhou
suzhou 215123
CN

80-16-05 (hex) Vodafone Italia S.p.A.
801605 (base 16) Vodafone Italia S.p.A.
Via Lorenteggio nr. 240
Milan Italy 20147
IT

00-C0-9F (hex) Quanta Computer Inc.
00C09F (base 16) Quanta Computer Inc.
7F., 116, HOU-KANG ST.,
TAIWAN TAIWAN R.O.C.
TW

C8-0A-A9 (hex) Quanta
Computer Inc.
C80AA9 (base 16) Quanta Computer Inc.
211, Wen Hwa 2nd Rd.,
Tao Yuan Kuei Shan 33377
TW

60-EB-69 (hex) Quanta Computer Inc.
60EB69 (base 16) Quanta Computer Inc.
211, Wen Hwa 2nd Rd.,Kuei Shan,
Tao Yuan 33377
TW

74-F7-F6 (hex) Shanghai Sunmi Technology Co.,Ltd.
74F7F6 (base 16) Shanghai Sunmi Technology Co.,Ltd.
Room 505, KIC Plaza, No.388 Song Hu Road, Yang Pu District, Shanghai, China
Shanghai Yang Pu District 200433
CN

A8-02-DB (hex) zte corporation
A802DB (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

B4-23-30 (hex) Itron Inc
B42330 (base 16) Itron Inc
2111 N Molter Rd
Liberty Lake WA 99019
US

00-08-95 (hex) DIRC Technologie GmbH & Co.KG
000895 (base 16) DIRC Technologie GmbH & Co.KG
Borsigstraße 13
Ratingen NRW 40880
DE

A0-22-DE (hex) vivo Mobile Communication Co.,
Ltd.
A022DE (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

FC-73-FB (hex) HUAWEI TECHNOLOGIES CO.,LTD
FC73FB (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-26-9E (hex) Quanta Computer Inc.
00269E (base 16) Quanta Computer Inc.
NO. 211, WEN HWA 2RD., KUEI SHAN HSIANG, TAIPEI, SHIEN
TAO YUAN 333
TW

C4-54-44 (hex) Quanta Computer Inc.
C45444 (base 16) Quanta Computer Inc.
No.211, Wen Hwa 2nd Rd., Kuei Shan Hsiang, Tao Yuan Shien, Taiwan, R. O. C.
Taoyuan Taiwan 33377
TW

00-1B-24 (hex) Quanta Computer Inc.
001B24 (base 16) Quanta Computer Inc.
No. 211, Wen Hwa 2nd Rd.,
Kuei Shan Hsiang Tao Yuan Shien 333
TW

24-1A-E6 (hex) Huawei Device Co., Ltd.
241AE6 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong
523808
CN

60-B7-6E (hex) Google, Inc.
60B76E (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

00-92-7D (hex) Ficosa Internationa(Taicang) C0.,Ltd.
00927D (base 16) Ficosa Internationa(Taicang) C0.,Ltd.
No.518, Middle Suzhou Rd., Taicang Economy Developing Area, Taicang,

Suzhou Jiangsu 215400
CN

44-16-22 (hex) Microsoft Corporation
441622 (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

04-45-62 (hex) ANDRA Sp. z o. o.
044562 (base 16) ANDRA Sp. z o. o.
Pryzmaty 6/8
Warszawa 02-226
PL

94-AE-F0 (hex) Cisco Systems, Inc
94AEF0 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

DC-D9-AE (hex) Nokia Shanghai Bell Co., Ltd.
DCD9AE (base 16) Nokia Shanghai Bell Co., Ltd.
No.388 Ning Qiao Road,Jin Qiao Pudong Shanghai
Shanghai 201206
CN

C4-36-6C (hex) LG Innotek
C4366C
(base 16) LG Innotek
Jangduk-dong 978-1
Gwang-ju Gwangsan-gu 506-731
KR

1C-08-C1 (hex) LG Innotek
1C08C1 (base 16) LG Innotek
978-1 Jangduk dong, Gwangsangu
Gwangju Gwangju 506-731
KR

A4-97-B1 (hex) CHONGQING FUGUI ELECTRONICS CO.,LTD.
A497B1 (base 16) CHONGQING FUGUI ELECTRONICS CO.,LTD.
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

D4-40-D0 (hex) OCOSMOS Co., LTD
D440D0 (base 16) OCOSMOS Co., LTD

(Tamnip-Dong) #1, 263-1 Techno 2-Ro Yuseong-Gu
Daejeon Daejeon 34026
KR

44-E6-B0 (hex) China Mobile IOT Company Limited
44E6B0 (base 16) China Mobile IOT Company Limited
NO.8 Yu Ma Road, NanAn Area
Chongqing Chongqing 401336
CN

74-7A-90 (hex) Murata Manufacturing Co., Ltd.
747A90 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

58-B6-23 (hex) Beijing Xiaomi Mobile
Software Co., Ltd
58B623 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
Xiaomi Campus, No. 33 Xi erqi Middle Road, Haidian District
Beijing Beijing 100085
CN

14-00-7D (hex) zte corporation
14007D (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

24-E9-CA (hex) Huawei Device Co., Ltd.
24E9CA (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

BC-A9-93 (hex) Cambium Networks Limited
BCA993 (base 16) Cambium Networks Limited
Unit B2, Linhay Business Park,
Ashburton Devon TQ13 7UP
GB

70-3A-A6 (hex) New H3C Technologies Co., Ltd
703AA6 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

8C-CE-FD (hex) Shenzhen zhouhai technology co.,LTD

8CCEFD (base 16) Shenzhen zhouhai technology co.,LTD
401-403,415-416,
Area A, Block B, West Silicon Valley, 5010 Baoan Avenue, Baoan District, Shenzhen, China
Shenzhen Guangdong 518110
CN

50-FB-19 (hex) CHIPSEA TECHNOLOGIES (SHENZHEN) CORP.
50FB19 (base 16) CHIPSEA TECHNOLOGIES (SHENZHEN) CORP.
9F,BLOCK A,GARDEN CITY DIGITAL BUILDING,NO.1079 NANHAI ROAD,NANSHAN DISTRICT
SHEN ZHEN GUANG DONG 518000
CN

94-08-C7 (hex) Huawei Device Co., Ltd.
9408C7 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C8-CA-63 (hex) Huawei Device Co., Ltd.
C8CA63 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

94-37-F7 (hex) Huawei Device Co., Ltd.
9437F7 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

D0-C6-37 (hex) Intel Corporate
D0C637 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3

Kulim Kedah 09000
MY

90-3F-EA (hex) HUAWEI TECHNOLOGIES CO.,LTD
903FEA (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

20-AB-48 (hex) HUAWEI TECHNOLOGIES CO.,LTD
20AB48 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

CC-D7-3C (hex) HUAWEI TECHNOLOGIES CO.,LTD
CCD73C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

98-B8-BC (hex) Samsung Electronics Co.,Ltd
98B8BC (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

18-4E-16 (hex) Samsung Electronics Co.,Ltd
184E16 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C0-3D-03 (hex) Samsung Electronics Co.,Ltd
C03D03 (base 16) Samsung Electronics
Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

10-74-6F (hex) MOTOROLA SOLUTIONS MALAYSIA SDN. BHD.
10746F (base 16) MOTOROLA SOLUTIONS MALAYSIA SDN. BHD.
INNOPLEX, NO. 2A, MEDAN BAYAN LEPAS, BAYAN LEPAS TECHNOPLEX
BAYAN LEPAS PENANG 11900
MY

94-E7-0B (hex) Intel Corporate
94E70B (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

04-6C-59 (hex) Intel Corporate
046C59 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

D4-AB-CD (hex) Hui Zhou Gaoshengda Technology Co.,LTD
D4ABCD (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.75,Zhongkai High-Tech Development District,Huizhou
Hui Zhou Guangdong 516006

CN

34-EA-E7 (hex) Shanghai High-Flying Electronics Technology Co., Ltd
34EAE7 (base 16) Shanghai High-Flying Electronics Technology Co., Ltd
Room 1002,#1Building,No.3000 Longdong Avenue,Pudong
Shanghai Shanghai 201202
CN

E0-0E-E4
(hex) DWnet Technologies(Suzhou) Corporation
E00EE4 (base 16) DWnet Technologies(Suzhou) Corporation
No.8,Tangzhuang Road, Suzhou Industrial Park, Jiangsu, China
Suzhou 21500
CN

58-FD-B1 (hex) LG Electronics
58FDB1 (base 16) LG Electronics
222 LG-ro, JINWI-MYEON
Pyeongtaek-si Gyeonggi-do 451-713
KR

A0-CA-A5 (hex) INTELLIGENCE TECHNOLOGY OF CEC CO., LTD
A0CAA5 (base 16) INTELLIGENCE TECHNOLOGY OF CEC CO., LTD
Tower A, NO.2 Lutuan Road, The sountern Of Future Science and Tech Zone, Changping District
Beijing Beijing 102209
CN

D4-92-34 (hex) NEC Corporation
D49234 (base 16) NEC Corporation
7-1 Shiba 5-chome
Minato-Ku Tokyo 108-8001
JP

38-68-93 (hex) Intel Corporate
386893 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

E8-85-4B (hex) Apple, Inc.
E8854B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

28-EC-95
(hex) Apple, Inc.
28EC95 (base 16) Apple, Inc.

1 Infinite Loop
Cupertino CA 95014
US

E0-2B-96 (hex) Apple, Inc.
E02B96 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-41-C6 (hex) Heat Tech Company, Ltd.
F041C6 (base 16) Heat Tech Company, Ltd.
221A, Tikhookeanskaya st.
Khabarovsk 680033
RU

E4-3A-65 (hex) MofiNetwork Inc
E43A65 (base 16) MofiNetwork Inc
11 Boynton Cir
Markham Ontario L6C 1A8
CA

F8-6C-03 (hex) Shenzhen Teleone Technology Co., Ltd
F86C03 (base 16) Shenzhen Teleone Technology Co., Ltd
TOWER B 5/F, SHANSHUI BUILDING, NANSHAN YUNGU INNOVATION INDUSTRY PARK, 1183 LIUXIAN AVENUE, NANSHAN, SHENZHEN, CHINA
Shenzhen 518000
CN

10-5D-DC (hex) Huawei Device Co., Ltd.
105DDC (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

DC-73-85 (hex) Huawei Device Co., Ltd.
DC7385
(base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

54-55-D5 (hex) Huawei Device Co., Ltd.
5455D5 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

18-45-93 (hex) Taicang T&W Electronics
184593 (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

CC-9E-CA (hex) HMD Global Oy
CC9ECA (base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo Espoo 02600
FI

3C-30-6F (hex) HUAWEI TECHNOLOGIES CO.,LTD
3C306F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

80-E1-BF (hex) HUAWEI TECHNOLOGIES CO.,LTD
80E1BF (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

48-2C-D0 (hex) HUAWEI TECHNOLOGIES CO.,LTD
482CD0
(base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D8-71-4D (hex) Texas Instruments
D8714D (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

0C-EC-80 (hex) Texas Instruments
0CEC80 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

C4-98-86 (hex) Qorvo International Pte. Ltd.
C49886 (base 16) Qorvo International Pte. Ltd.
1 Changi Business Park Avenue 1
#04-01 486058
SG

5C-0F-FB (hex) Amino Communications Ltd
5C0FFB (base 16) Amino Communications Ltd
1010 Cambourne Business Park
Cambourne Cambs CB23 6DP
GB

3C-F6-52 (hex) zte corporation
3CF652 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

E8-2A-44 (hex) Liteon Technology Corporation
E82A44 (base 16) Liteon Technology Corporation
4F,
90, Chien 1 Road
New Taipei City Taiwan 23585
TW

48-E1-E9 (hex) Chengdu Meross Technology Co., Ltd.
48E1E9 (base 16) Chengdu Meross Technology Co., Ltd.
No. 25, Yizhou Avenue, Gaoxin
Chengdu Sichuan 610000
CN

08-B0-55 (hex) ASKEY COMPUTER CORP
08B055 (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585
TW

08-AA-55 (hex) Motorola Mobility LLC, a Lenovo Company
08AA55 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

70-9F-2D (hex) zte corporation
709F2D (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

A0-DE-0F (hex) Huawei Device Co., Ltd.
A0DE0F (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808

CN

F4-87-C5 (hex) Huawei Device Co., Ltd.
F487C5 (base
16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

74-58-F3 (hex) Amazon Technologies Inc.
7458F3 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

54-21-9D (hex) Samsung Electronics Co.,Ltd
54219D (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A8-05-77 (hex) Netlist, Inc.
A80577 (base 16) Netlist, Inc.
175 Technology
Irvine CA 92618
US

40-40-28 (hex) ZIV
404028 (base 16) ZIV
Polígono Parque Tecnológico, 210
ZAMUDIO VIZCAYA 48170
ES

70-03-9F (hex) Espressif Inc.
70039F (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

88-2B-94 (hex) MADOKA SYSTEM Co.,Ltd.
882B94 (base 16) MADOKA SYSTEM Co.,Ltd.
2-105 Hanasakidai Moriyama-ku
Nagoya 463-0808
JP

7C-EF-61 (hex) STR Elektronik Josef Schlechtinger
GmbH
7CEF61 (base 16) STR Elektronik Josef Schlechtinger GmbH

Auf dem Ohl 9
Wenden 57482
DE

40-05-89 (hex) T-Mobile, USA
400589 (base 16) T-Mobile, USA
3625 132nd Ave SE
BELLEVUE WA 98006
US

24-62-CE (hex) Aruba, a Hewlett Packard Enterprise Company
2462CE (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

64-A9-65 (hex) Linkflow Co., Ltd.
64A965 (base 16) Linkflow Co., Ltd.
54, Nonhyeon-ro 2-gil, Gangnam-gu
Seoul 06313
KR

68-E2-09 (hex) HUAWEI TECHNOLOGIES CO.,LTD
68E209 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F4-30-8B (hex) Xiaomi Communications Co Ltd
F4308B (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

DC-6B-12 (hex) worldcns
inc.
DC6B12 (base 16) worldcns inc.
174, Namjo-ro 1-gil, Jocheon-eup
Jeju-si Jeju-do 63335
KR

00-13-54 (hex) Zcomax Technologies, Inc.
001354 (base 16) Zcomax Technologies, Inc.
98 Ford Road
Denville NJ 07834
US

C0-9B-F4 (hex) IEEE Registration Authority

C09BF4 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

28-23-73 (hex) Digita
282373 (base 16) Digita
Jämsänkatu 2
Helsinki Uusimaa 00520
FI

D0-AB-D5 (hex) Intel Corporate
D0ABD5 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

D4-C1-C8 (hex) zte corporation
D4C1C8 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

88-D2-74 (hex) zte corporation
88D274 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

30-B2-37
(hex) GD Midea Air-Conditioning Equipment Co.,Ltd.
30B237 (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
Midea Global Innovation Center,Beijiao Town,Shunde
Foshan Guangdong 528311
CN

B0-B5-C3 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
B0B5C3 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

4C-CE-2D (hex) Danlaw Inc
4CCE2D (base 16) Danlaw Inc
23700 research Dr.
Farmington Hills MI 48335
US

BC-5A-56 (hex) Cisco Systems, Inc
BC5A56 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

BC-0F-9A (hex) D-Link International
BC0F9A (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

AC-4A-56 (hex) Cisco Systems, Inc
AC4A56 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

70-4A-0E
(hex) AMPAK Technology,Inc.
704A0E (base 16) AMPAK Technology,Inc.
3F, No.15-1 Zhonghua Road, Hsinchu Industrail Park, Hukou,
Hsinchu Hsinchu,Taiwan R.O.C. 30352
TW

B0-E4-D5 (hex) Google, Inc.
B0E4D5 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

0C-35-FE (hex) Fiberhome Telecommunication Technologies Co.,LTD
0C35FE (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

8C-83-DF (hex) Nokia
8C83DF (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

30-B9-B0 (hex) Intracom Asia Co., Ltd
30B9B0 (base 16) Intracom Asia Co., Ltd
4F., No77, Sec. 1, Xintai 5th Rd., Xizhi Dist.
New Taipei City Taiwan 221
TW

94-E7-EA (hex) HUAWEI TECHNOLOGIES CO.,LTD
94E7EA (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

94-E4-BA (hex) Huawei
Device Co., Ltd.
94E4BA (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

34-71-46 (hex) Huawei Device Co., Ltd.
347146 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

2C-C5-46 (hex) Huawei Device Co., Ltd.
2CC546 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

0C-83-9A (hex) Huawei Device Co., Ltd.
0C839A (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

E0-E0-FC (hex) Huawei Device Co., Ltd.
E0E0FC (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

E0-D4-E8 (hex) Intel Corporate
E0D4E8 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

30-50-75
(hex) GN Audio A/S
305075 (base 16) GN Audio A/S
Lautrupbjerg 7

Ballerup DK-2750
DK

90-EC-77 (hex) silicom
90EC77 (base 16) silicom
14 Atir-Yeda St/
Kfar-Sava Israel 44000
IL

F4-B7-8D (hex) HUAWEI TECHNOLOGIES CO.,LTD
F4B78D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A4-16-E7 (hex) HUAWEI TECHNOLOGIES CO.,LTD
A416E7 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B4-09-31 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B40931 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

AC-4B-1E (hex) Integri-Sys.Com LLC
AC4B1E (base 16) Integri-Sys.Com LLC
9130 South Dadeland Bvld. Suite 1509
Miami FL 33156
US

68-69-CA (hex) Hitachi, Ltd.
6869CA (base 16) Hitachi,
Ltd.
27-18, Minami Oi 6-chome, Shinagawa-ku
Tokyo 140-8572
JP

D4-DA-CD (hex) SKY UK LIMITED
D4DACD (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

F4-DB-E3 (hex) Apple, Inc.
F4DBE3 (base 16) Apple, Inc.

1 Infinite Loop
Cupertino CA 95014
US

BC-42-8C (hex) ALPSALPINE CO,.LTD
BC428C (base 16) ALPSALPINE CO,.LTD
nishida 6-1
Kakuda-City Miyagi-Pref 981-1595
JP

D4-5E-EC (hex) Beijing Xiaomi Electronics Co., Ltd.
D45EEC (base 16) Beijing Xiaomi Electronics Co., Ltd.
Building C, QingHe ShunShiJiaYe Technology Park, #66 ZhuFang Rd, HaiDian District
Beijing Beijing 10085
CN

88-C3-97 (hex) Beijing Xiaomi Mobile Software Co., Ltd
88C397 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

F0-F6-C1 (hex) Sonos, Inc.
F0F6C1 (base 16) Sonos,
Inc.
614 Chapala St
Santa Barbara CA 93101
US

04-BD-BF (hex) Samsung Electronics Co.,Ltd
04BDBF (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

BC-7A-BF (hex) Samsung Electronics Co.,Ltd
BC7ABF (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

60-68-4E (hex) Samsung Electronics Co.,Ltd
60684E (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

4C-45-76 (hex) China Mobile(Hangzhou) Information Technology Co.,Ltd.

4C4576 (base 16) China Mobile(Hangzhou) Information Technology Co.,Ltd.
No. 1600 Yuhangtang Road, Wuchang Street, Yuhang District
Hangzhou Zhejiang 310000
CN

74-C9-29 (hex) Zhejiang Dahua Technology Co., Ltd.
74C929 (base 16) Zhejiang Dahua Technology Co., Ltd.
No.1199,Waterfront Road
Hangzhou Zhejiang 310053
CN

94-CC-04 (hex) IEEE Registration Authority
94CC04
(base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

80-20-FD (hex) Samsung Electronics Co.,Ltd
8020FD (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B4-CE-40 (hex) Samsung Electronics Co.,Ltd
B4CE40 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

9C-C9-EB (hex) NETGEAR
9CC9EB (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

5C-B2-9E (hex) ASCO Power Technologies
5CB29E (base 16) ASCO Power Technologies
160 Park Avenue
Florham Park NJ 07932
US

B4-40-A4 (hex) Apple, Inc.
B440A4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

48-B8-A3 (hex) Apple, Inc.
48B8A3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

30-80-9B (hex) New H3C Technologies Co., Ltd
30809B (base 16) New H3C Technologies
Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

64-F2-FB (hex) Hangzhou Ezviz Software Co.,Ltd.
64F2FB (base 16) Hangzhou Ezviz Software Co.,Ltd.
Room 302, Unit B, Building 2, 399 Danfeng Road,Binjiang District
Hangzhou Zhejiang 310051
CN

6C-0D-34 (hex) Nokia
6C0D34 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

F4-19-E2 (hex) Volterra
F419E2 (base 16) Volterra
2550 Great America Way #350
Santa Clara CA 95054
US

D8-07-B6 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
D807B6 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

64-6E-97 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
646E97 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen
Guangdong 518057
CN

D8-4D-B9 (hex) Wu Qi Technologies,Inc.
D84DB9 (base 16) Wu Qi Technologies,Inc.
14/F, 107 Middle Road, Xiantao Big Data Valley, Yubei District
Chongqing Chongqing 401120

CN

A0-4F-85 (hex) LG Electronics (Mobile Communications)
A04F85 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

6C-16-32 (hex) HUAWEI TECHNOLOGIES CO.,LTD
6C1632 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

2C-1A-01 (hex) HUAWEI TECHNOLOGIES CO.,LTD
2C1A01 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

24-16-9D (hex) Cisco Systems, Inc
24169D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-23-3D (hex) Laird Technologies
00233D (base 16) Laird Technologies
Meesmannstrasse
103
Bochum 44807
DE

74-22-BB (hex) Huawei Device Co., Ltd.
7422BB (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

34-78-39 (hex) zte corporation
347839 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

30-AB-6A (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
30AB6A (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T. Bangsamak SEMTHAI, WELLGROW INDUSTRIAL ESTATE

Bangpakong Chachoengsao 24180
TH

74-9B-E8 (hex) Hitron Technologies. Inc
749BE8 (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

4C-63-71 (hex) Xiaomi Communications Co Ltd
4C6371 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District,
Beijing 100085
CN

00-DD-25 (hex) Shenzhen hechengdong Technology Co., Ltd
00DD25 (base 16) Shenzhen hechengdong Technology Co., Ltd
302, floor 3, no.90-5, Dayang Road, Xintian community, Fuhai street, Bao'an District
Shenzhen GuangDong 518100
CN

8C-60-78 (hex) Swissbit AG
8C6078 (base 16) Swissbit AG
Industriestrasse 4
Bronschhofen CH-9552
CH

F8-0D-F0 (hex) zte corporation
F80DF0 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

5C-BA-EF (hex) CHONGQING FUGUI ELECTRONICS CO.,LTD.
5CBAEF (base 16) CHONGQING FUGUI ELECTRONICS CO.,LTD.
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

00-0A-DB (hex) Trilliant
000ADB (base 16) Trilliant
401 Harrison Oaks Blvd. Suite 300
Cary NC 27513
US

04-45-A1 (hex) NIRIT- Xinwei Telecom Technology Co., Ltd.
0445A1

(base 16) NIRIT- Xinwei Telecom Technology Co., Ltd.
2-? ??????????? ??????, ?.12, ???.2
Moscow 115432
RU

9C-E9-1C (hex) zte corporation
9CE91C (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

14-F6-D8 (hex) Intel Corporate
14F6D8 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

8C-97-EA (hex) FREEBOX SAS
8C97EA (base 16) FREEBOX SAS
16 rue de la Ville l'Eveque
PARIS IdF 75008
FR

80-20-E1 (hex) BVBA DPTechnics
8020E1 (base 16) BVBA DPTechnics
Westkapellestraat 396/44
Knokke-Heist West-Vlaanderen 8300
BE

FC-8E-6E (hex) StreamCCTV, LLC
FC8E6E (base 16) StreamCCTV, LLC
1129 Northern Blvd, STE. 404
Manhasset 11030
US

78-8B-2A (hex) Zhen Shi Information Technology (Shanghai) Co., Ltd.
788B2A (base 16) Zhen Shi Information Technology (Shanghai) Co., Ltd.
5F, Building
3?No. 401 Caobao Road, Xuhui District, Shanghai, China
Shanghai Shanghai 200233
CN

AC-64-CF (hex) FN-LINK TECHNOLOGY LIMITED
AC64CF (base 16) FN-LINK TECHNOLOGY LIMITED
A Building,HuiXin industial park,No 31, YongHe road, Fuyong town, Bao'an District
SHENZHEN GUANGDONG 518100
CN

5C-17-CF (hex) OnePlus Technology (Shenzhen) Co., Ltd
5C17CF (base 16) OnePlus Technology (Shenzhen) Co., Ltd
18C02, 18C03, 18C04 ,18C05,TAIRAN BUILDING,
Shenzhen Guangdong 518000
CN

10-29-59 (hex) Apple, Inc.
102959 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E4-76-84 (hex) Apple, Inc.
E47684 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-5C-D5 (hex) Apple, Inc.
F05CD5 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E0-2A-E6 (hex) Fiberhome Telecommunication Technologies Co.,LTD
E02AE6 (base 16) Fiberhome Telecommunication Technologies
Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

3C-DA-6D (hex) Tiandy Technologies CO.,LTD
3CDA6D (base 16) Tiandy Technologies CO.,LTD
NO.8,haitai huake rd2 (outside ring road),huayuan new technology industrial park
Tianjin Tianjin 300384
CN

A4-FA-76 (hex) New H3C Technologies Co., Ltd
A4FA76 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

3C-FA-D3 (hex) IEEE Registration Authority
3CFAD3 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

48-B0-2D (hex) NVIDIA Corporation
48B02D (base 16) NVIDIA Corporation
2701 San Tomas Expressway
Santa Clara CA 95050
US

B4-1A-1D (hex) Samsung Electronics Co.,Ltd
B41A1D (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F0-67-28 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
F06728 (base 16) GUANGDONG
OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

9C-E1-76 (hex) Cisco Systems, Inc
9CE176 (base 16) Cisco Systems, Inc
80 West Tasman Dr.
San Jose CA 94568
US

70-EA-5A (hex) Apple, Inc.
70EA5A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

18-AF-A1 (hex) Shenzhen Yifang Network Technology Co., Ltd.
18AFA1 (base 16) Shenzhen Yifang Network Technology Co., Ltd.
21 / F, Kangjia R & D building, No.28, Keji South 12th Road, Nanshan District, Shenzhen City, Guangdong Province, China
Shenzhen Nanshan District 518000
CN

54-CE-69 (hex) Hikari Trading Co.,Ltd.
54CE69 (base 16) Hikari Trading Co.,Ltd.
Hikari Building,7-4-14,Ginza,Chuo-ku
Tokyo 104-0061
JP

6C-AE-F6 (hex) eero inc.
6CAEF6 (base 16) eero inc.
660 3rd Street

San Francisco CA 94107
US

FC-F5-C4 (hex) Espressif Inc.
FCF5C4 (base 16) Espressif
Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

E8-26-B6 (hex) Companies House to GlucoRx Technologies Ltd.
E826B6 (base 16) Companies House to GlucoRx Technologies Ltd.
Strathpeffer Road
Dingwall Scotland IV159QF
GB

00-76-3D (hex) Veea
00763D (base 16) Veea
164 E 83rd Street
New York NY 10028
US

C0-14-B8 (hex) Nokia
C014B8 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

D0-28-BA (hex) Realme Chongqing MobileTelecommunications Corp Ltd
D028BA (base 16) Realme Chongqing MobileTelecommunications Corp Ltd
No.24 Nichang Boulevard, Huixing Block, Yubei District, Chongqing.
Chongqing China 401120
CN

A4-28-B7 (hex) Yangtze Memory Technologies Co., Ltd.
A428B7 (base 16) Yangtze Memory Technologies Co., Ltd.
No.88 Weilai 3rd Road, East Lake High-tech Development Zone, Wuhan, Hubei, POC
Wuhan Hubei 430078
CN

94-92-D2
(hex) KCF Technologies, Inc.
9492D2 (base 16) KCF Technologies, Inc.
336 S Fraser Street
State College PA 16801
US

E4-A8-DF (hex) COMPAL INFORMATION (KUNSHAN) CO., LTD.

E4A8DF (base 16) COMPAL INFORMATION (KUNSHAN) CO., LTD.
NO. 25, THE 3RD Street KUNSHAN EXPORT PROCESSING ZONE
KUNSHAN SUZHOU 215300
CN

74-D4-35 (hex) GIGA-BYTE TECHNOLOGY CO.,LTD.
74D435 (base 16) GIGA-BYTE TECHNOLOGY CO.,LTD.
Pin-Jen City, Taoyuan, Taiwan, R.O.C.
Pin-Jen Taoyuan 324
TW

40-8D-5C (hex) GIGA-BYTE TECHNOLOGY CO.,LTD.
408D5C (base 16) GIGA-BYTE TECHNOLOGY CO.,LTD.
Pin-Jen City, Taoyuan, Taiwan, R.O.C.
Pin-Jen Taoyuan 324
TW

6C-C6-3B (hex) Taicang T&W Electronics
6CC63B (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

4C-E1-76 (hex) Cisco Systems, Inc
4CE176 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

14-34-F6 (hex) LV
SOLUTION SDN. BHD.
1434F6 (base 16) LV SOLUTION SDN. BHD.
43, JLN 11/118B, DESA TUN RAZAK
Kuala Lumpur Kuala Lumpur 56000
MY

30-93-BC (hex) Sagemcom Broadband SAS
3093BC (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

8C-53-C3 (hex) Beijing Xiaomi Mobile Software Co., Ltd
8C53C3 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

D8-3B-BF (hex) Intel Corporate
D83BBF (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-0D-BB (hex) Nippon Dentsu Co.,Ltd.
000DBB (base 16) Nippon Dentsu Co.,Ltd.
2-21-1,Isoji
Osaka 552-0003
JP

0C-EE-99 (hex) Amazon Technologies Inc.
0CEE99 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

F4-FE-FB (hex) Samsung Electronics
Co.,Ltd
F4FEFB (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

58-8E-81 (hex) Silicon Laboratories
588E81 (base 16) Silicon Laboratories
7000 W. William Cannon Dr.
Austin TX 78735
US

90-2B-34 (hex) GIGA-BYTE TECHNOLOGY CO.,LTD.
902B34 (base 16) GIGA-BYTE TECHNOLOGY CO.,LTD.
Pin-Jen City,
Pin-Jen Taoyuan 324
TW

94-DE-80 (hex) GIGA-BYTE TECHNOLOGY CO.,LTD.
94DE80 (base 16) GIGA-BYTE TECHNOLOGY CO.,LTD.
Pin-Jen City, Taoyuan, Taiwan, R.O.C.
Pin-Jen Taoyuan 324
TW

70-2F-35 (hex) HUAWEI TECHNOLOGIES CO.,LTD
702F35 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

04-3F-72 (hex) Mellanox Technologies, Inc.
043F72 (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway, Suite 100
Sunnyvale CA 94085
US

F8-6F-DE (hex) Shenzhen Goodix Technology
Co.,Ltd.
F86FDE (base 16) Shenzhen Goodix Technology Co.,Ltd.
F13,Phase B,Tengfei Industrial Building,Futian Free Trade Zone,Shenzhen,China
Shenzhen Guangdong 518045
CN

3C-41-0E (hex) Cisco Systems, Inc
3C410E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

20-74-54 (hex) vivo Mobile Communication Co., Ltd.
207454 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

B8-C9-B5 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
B8C9B5 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

00-1F-F6 (hex) PS Audio International
001FF6 (base 16) PS Audio International
4826 Sterling Drive
Boulder CO 80301
US

00-69-67 (hex) IEEE Registration Authority
006967 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

1C-4D-66
(hex) Amazon Technologies Inc.
1C4D66 (base 16) Amazon Technologies Inc.
P.O Box 8102

Reno NV 89507
US

64-66-24 (hex) Sagemcom Broadband SAS
646624 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

B0-F5-30 (hex) Hitron Technologies. Inc
B0F530 (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

00-45-E2 (hex) CyberTAN Technology Inc.
0045E2 (base 16) CyberTAN Technology Inc.
99 Park Ave III, Hsinchu Science Park
Hsinchu 308
TW

00-1E-B8 (hex) Aloys, Inc
001EB8 (base 16) Aloys, Inc
#3F HANWHA TECHWIN R&D BLDG. 4-5, YANGHYEON-RO 405 BEON-GIL,
JUNGWON-GU, SEONGNAM-SI GYEONGGI-DO 13438
KR

98-49-14 (hex) Wistron Neweb Corporation
984914 (base 16) Wistron Neweb Corporation
No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu
R.O.C. 308
TW

50-2C-C6 (hex) GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI
502CC6 (base 16) GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI
Jinji West Road, Qianshan,
Zhuhai Guangdong 519070
CN

0C-E4-A0 (hex) Huawei Device Co., Ltd.
0CE4A0 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

BC-1A-E4 (hex) Huawei Device Co., Ltd.
BC1AE4 (base 16) Huawei Device Co., Ltd.

No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

74-0A-E1 (hex) Huawei Device Co., Ltd.
740AE1 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

B4-A8-98 (hex) Huawei Device Co., Ltd.
B4A898 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

00-27-E3 (hex) Cisco Systems, Inc
0027E3 (base 16) Cisco Systems, Inc
80
West Tasman Drive
San Jose CA 94568
US

08-9C-86 (hex) Nokia Shanghai Bell Co., Ltd.
089C86 (base 16) Nokia Shanghai Bell Co., Ltd.
No.388 Ning Qiao Road,Jin Qiao Pudong Shanghai 201206,P.R.China
Shanghai Pudong 201206
CN

F0-51-36 (hex) TCT mobile ltd
F05136 (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

10-59-32 (hex) Roku, Inc
105932 (base 16) Roku, Inc
1155 Coleman Ave
San Jose CA 95110
US

78-17-BE (hex) HUAWEI TECHNOLOGIES CO.,LTD
7817BE (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

1C-1E-38 (hex) PCCW Global, Inc.

1C1E38 (base 16) PCCW Global, Inc.
475 Spring Park Pl Suite 100 Herndon VA 20170
Herndon WA 20170
US

F0-72-EA (hex) Google, Inc.
F072EA (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View
CA 94043
US

B8-7B-C5 (hex) Apple, Inc.
B87BC5 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

40-70-F5 (hex) Apple, Inc.
4070F5 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B0-35-B5 (hex) Apple, Inc.
B035B5 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

88-AC-C0 (hex) Zyxel Communications Corporation
88ACC0 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

90-FD-73 (hex) zte corporation
90FD73 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

80-0C-67 (hex) Apple, Inc.
800C67 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

90-81-2A (hex) Apple, Inc.
90812A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

EC-9C-32 (hex) Sichuan AI-Link Technology
Co., Ltd.
EC9C32 (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou,Industrial Park
Anzhou,Industrial Park Sichuan 621000
CN

4C-AD-A8 (hex) PANOPTICS CORP.
4CADA8 (base 16) PANOPTICS CORP.
D-908 Bundang Technopark, 700 Pangyoro, Bundang
Seongnam Gyeonggi 13516
KR

98-1B-B5 (hex) ASSA ABLOY Korea Co., Ltd iRevo
981BB5 (base 16) ASSA ABLOY Korea Co., Ltd iRevo
10F of JEI PLATZ Bldg., 186, Gasandigital-ro, Geumcheon-gu
Seoul 08502
KR

D4-2D-C5 (hex) i-PRO Co., Ltd.
D42DC5 (base 16) i-PRO Co., Ltd.
4-1-62 Minoshima, Hakata-ku
Fukuoka City 812-8531
JP

F0-B1-07 (hex) Ericsson AB
F0B107 (base 16) Ericsson AB
Torshamnsgatan 36
Stockholm SE-164 80
SE

E8-D0-3C (hex) Shenzhen Jingxun Software Telecommunication Technology Co.,Ltd
E8D03C (base 16) Shenzhen Jingxun Software Telecommunication Technology Co.,Ltd
3/F,A5 Building Zhiyuan Community No.1001,Xueyuan Road Nanshan
District
Shenzhen Guangdong 518055
CN

1C-1A-DF (hex) Microsoft Corporation
1C1ADF (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052

US

D4-F5-47 (hex) Google, Inc.
D4F547 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

E0-40-07 (hex) Huawei Device Co., Ltd.
E04007 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

70-CE-8C (hex) Samsung Electronics Co.,Ltd
70CE8C (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

78-3A-6C (hex) TECNO MOBILE LIMITED
783A6C (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

34-CB-1A (hex) Procter & Gamble Company
34CB1A (base 16) Procter & Gamble Company
2 Procter
& Gamble Plaza
Cincinnati OH 45202
US

90-AF-D1 (hex) netKTI Co., Ltd
90AFD1 (base 16) netKTI Co., Ltd
7-10F THE-ONE SQUARE, 135, Unjung-ro, Bundang-gu
Seongnam-si Gyeonggi-do 13461
KR

7C-48-B2 (hex) Vida Resources Lte Ltd
7C48B2 (base 16) Vida Resources Lte Ltd
10 Anson road, unit #16-20 International Plaza
Singapore 079903
SG

C4-E0-DE (hex) Zhengzhou XindaJiean Information Technology Co.,Ltd.
C4E0DE (base 16) Zhengzhou XindaJiean Information Technology Co.,Ltd.

Tianli building A, wisdom park, no. 139, yangjin road, jinshui district
Zhengzhou Henan 450003
CN

90-1A-4F (hex) EM Microelectronic
901A4F (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

D8-8A-DC (hex) Huawei Device Co., Ltd.
D88ADC (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

CC-6A-10 (hex) The Chamberlain Group,
Inc
CC6A10 (base 16) The Chamberlain Group, Inc
300 Windsor Drive
Oak Brook IL 60523
US

00-04-C9 (hex) Micro Electron Co., Ltd.
0004C9 (base 16) Micro Electron Co., Ltd.
13-1-205 Aobaokakita
Suita-city Osaka
JP

C8-4F-0E (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
C84F0E (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

10-E9-53 (hex) Huawei Device Co., Ltd.
10E953 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

B8-87-C6 (hex) Prudential Technology co.,LTD
B887C6 (base 16) Prudential Technology co.,LTD
UNIT 4,7/F BRIGHT WAY TOWER, NO33 MONG KOK RD,
Hong Kong 999077
CN

FC-1C-A1 (hex) Nokia

FC1CA1 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

6C-D2-BA (hex) zte corporation
6CD2BA (base 16) zte corporation
12/F.,zte
R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

30-3A-BA (hex) Guangzhou BaoLun Electronics Co., Ltd
303ABA (base 16) Guangzhou BaoLun Electronics Co., Ltd
No.1 Building B Block, Zhongcun Street, Panyu District
Guangzhou guangdong 511400
CN

C4-3A-35 (hex) FN-LINK TECHNOLOGY LIMITED
C43A35 (base 16) FN-LINK TECHNOLOGY LIMITED
A Building,HuiXin industial park,No 31, YongHe road, Fuyong town, Bao'an District
SHENZHEN GUANGDONG 518100
CN

04-D1-6E (hex) IEEE Registration Authority
04D16E (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

F0-3F-95 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F03F95 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

18-56-44 (hex) HUAWEI TECHNOLOGIES CO.,LTD
185644 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room
R6,Songshan Lake Technology Park
Dongguan 523808
CN

9C-69-D1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
9C69D1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

04-0E-3C (hex) HP Inc.
040E3C (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

6C-1C-71 (hex) Zhejiang Dahua Technology Co., Ltd.
6C1C71 (base 16) Zhejiang Dahua Technology Co., Ltd.
No.1199,Waterfront Road
Hangzhou Zhejiang 310053
CN

78-C8-81 (hex) Sony Interactive Entertainment Inc.
78C881 (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

70-48-F7 (hex) Nintendo Co.,Ltd
7048F7 (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

18-E1-CA (hex) wanze
18E1CA (base 16) wanze
wanjinglu
dandong Liaoning 118000
CN

CC-EF-03 (hex) Hunan Keyshare Communication
Technology Co., Ltd.
CCEF03 (base 16) Hunan Keyshare Communication Technology Co., Ltd.
No. 19 Building, CEC Software Park, No. 39 jianshan Rd
Changsha Hunan 410205
CN

30-91-76 (hex) Skyworth Digital Technology(Shenzhen) Co.,Ltd
309176 (base 16) Skyworth Digital Technology(Shenzhen) Co.,Ltd
7F,Block A,Skyworth Building,
Shenzhen Guangdong 518057
CN

D4-4F-68 (hex) Eidetic Communications Inc
D44F68 (base 16) Eidetic Communications Inc
3553 31st NW
Calgary Alberta T2L2K7

CA

34-0F-66 (hex) Web Sensing LLC
340F66 (base 16) Web Sensing LLC
P.O. Box 692
Hanover NH 03755
US

B4-02-16 (hex) Cisco Systems, Inc
B40216 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

54-A4-93 (hex) IEEE Registration Authority
54A493 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

8C-C8-4B (hex) CHONGQING FUGUI ELECTRONICS
CO.,LTD.
8CC84B (base 16) CHONGQING FUGUI ELECTRONICS CO.,LTD.
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

0C-2F-B0 (hex) Samsung Electronics Co.,Ltd
0C2FB0 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

74-9E-A5 (hex) OHSUNG
749EA5 (base 16) OHSUNG
335-4,SANHODAERO,GUMI,GYEONG BUK,KOREA
GUMI GYEONG BUK 730-030
KR

00-22-72 (hex) American Micro-Fuel Device Corp.
002272 (base 16) American Micro-Fuel Device Corp.
2181 Buchanan Loop
Ferndale WA 98248
US

00-D0-EF (hex) IGT
00D0EF (base 16) IGT
9295 PROTOTYPE DRIVE

RENO NV 89511
US

EC-BE-DD (hex) Sagemcom Broadband SAS
ECBEDD (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

88-57-1D (hex) Seongji Industry Company
88571D (base 16) Seongji Industry Company

54-33, Dongtanhana 1-gil
Hwaseong-si Gyeonggi-do 18423
KR

B0-4F-C3 (hex) Shenzhen NVC Cloud Technology Co., Ltd.
B04FC3 (base 16) Shenzhen NVC Cloud Technology Co., Ltd.
Rm. 1406, Bld. 11A, Shenzhen Bay Eco-Technology Park, Nanshan Dist.,
Shenzhen Guangdong 518063
CN

40-55-82 (hex) Nokia
405582 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

A4-E3-1B (hex) Nokia
A4E31B (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

B8-A5-8D (hex) Axe Group Holdings Limited
B8A58D (base 16) Axe Group Holdings Limited
Road Town
tortola VG1110
VG

50-CE-E3 (hex) Gigafirm.co.LTD
50CEE3 (base 16) Gigafirm.co.LTD
3-21-8,kisonishi
machida-city tokyo 1940037
JP

F4-97-C2 (hex) Nebulon Inc
F497C2 (base 16) Nebulon Inc

3089 Skyway Court
Fremont CA 94539
US

58-85-E9 (hex) Realme Chongqing MobileTelecommunications Corp Ltd
5885E9 (base 16) Realme
Chongqing MobileTelecommunications Corp Ltd
No.24 Nichang Boulevard, Huixing Block, Yubei District, Chongqing.
Chongqing China 401120
CN

4C-1D-96 (hex) Intel Corporate
4C1D96 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

BC-23-92 (hex) BYD Precision Manufacture Company Ltd.
BC2392 (base 16) BYD Precision Manufacture Company Ltd.
No.3001, Bao He Road, Baolong Industrial, Longgang Street,Longgang Zone, Shenzhen
shenzhen 518116
CN

94-E6-F7 (hex) Intel Corporate
94E6F7 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

D8-97-90 (hex) Commonwealth Scientific and Industrial Research Organisation
D89790 (base 16) Commonwealth Scientific and Industrial Research Organisation
GPO Box 1700
Canberra ACT 2601
AU

88-3A-30 (hex) Aruba, a Hewlett Packard Enterprise Company
883A30 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333
Scott Blvd
Santa Clara CA 95054
US

F4-BD-9E (hex) Cisco Systems, Inc
F4BD9E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A4-45-19 (hex) Xiaomi Communications Co Ltd
A44519 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

84-46-FE (hex) HUAWEI TECHNOLOGIES CO.,LTD
8446FE (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D8-29-18 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D82918 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

08-60-83 (hex) zte corporation
086083 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

E0-19-54 (hex) zte corporation
E01954
(base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

7C-F3-1B (hex) LG Electronics (Mobile Communications)
7CF31B (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

10-32-7E (hex) Huawei Device Co., Ltd.
10327E (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C4-19-D1 (hex) Telink Semiconductor (Shanghai) Co., Ltd.
C419D1 (base 16) Telink Semiconductor (Shanghai) Co., Ltd.
No. 1500 Zuchongzhi Rd, Building #3
Shanghai 201203
CN

64-B2-1D (hex) Chengdu Phycom Tech Co., Ltd.
64B21D (base 16) Chengdu Phycom Tech Co., Ltd.
No.216 beisen road
Chengdu Sichuan 610000
CN

C4-29-96 (hex) Signify B.V.
C42996 (base 16) Signify B.V.
High Tech Campus 7
Eindhoven 5656AE
NL

B0-65-F1 (hex) WIO Manufacturing HK
Limited
B065F1 (base 16) WIO Manufacturing HK Limited
15/F OTB Building, 160 Glocester Road
Hong Kong 00000
HK

90-12-34 (hex) Shenzhen YOUHUA Technology Co., Ltd
901234 (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

54-2A-1B (hex) Sonos, Inc.
542A1B (base 16) Sonos, Inc.
614 Chapala St
Santa Barbara CA 93101
US

38-C4-E8 (hex) NSS Sp. z o.o.
38C4E8 (base 16) NSS Sp. z o.o.
Modularna 11
Warszawa 02-238
PL

34-DD-7E (hex) Umeox Innovations Co.,Ltd
34DD7E (base 16) Umeox Innovations Co.,Ltd
Room 1208-09, Research Building, Tsinghua Information Port, No. 1, Xindong Road, Nanshan District, Shenzhen
Shenzhen Guangdong 518000
CN

CC-CD-64 (hex) SM-Electronic GmbH
CCCD64 (base 16) SM-Electronic GmbH
Waldweg 2
Stapelfeld / Braak 22145

DE

24-DF-A7
(hex) Hangzhou BroadLink Technology Co.,Ltd
24DFA7 (base 16) Hangzhou BroadLink Technology Co.,Ltd
Room 101,1/F,Unit C,Building 1,No.57 Jiang'er Road,Changhe Street,Binjiang District,Hangzhou,Zhejiang,P.R.China
Hangzhou Zhejiang 310052
CN

5C-92-5E (hex) Zioncom Electronics (Shenzhen) Ltd.
5C925E (base 16) Zioncom Electronics (Shenzhen) Ltd.
A1&A2 Building,Lantian Technology Park, Xinyu Road, Xingqiao Henggang Block, Shajing Street, Baoan District
Shenzhen Guangdong 518000
CN

08-4F-A9 (hex) Cisco Systems, Inc
084FA9 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

08-4F-F9 (hex) Cisco Systems, Inc
084FF9 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

98-06-37 (hex) IEEE Registration Authority
980637 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

F8-08-4F (hex) Sagemcom Broadband SAS
F8084F
(base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

30-FB-B8 (hex) HUAWEI TECHNOLOGIES CO.,LTD
30FBB8 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

18-02-AE (hex) vivo Mobile Communication Co., Ltd.

1802AE (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

0C-20-D3 (hex) vivo Mobile Communication Co., Ltd.
0C20D3 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

68-DB-F5 (hex) Amazon Technologies Inc.
68DBF5 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

24-46-C8 (hex) Motorola Mobility LLC, a Lenovo Company
2446C8 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL
60654
US

44-D7-91 (hex) HUAWEI TECHNOLOGIES CO.,LTD
44D791 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

50-98-B8 (hex) New H3C Technologies Co., Ltd
5098B8 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

B8-4D-EE (hex) Hisense broadband multimedia technology Co.,Ltd
B84DEE (base 16) Hisense broadband multimedia technology Co.,Ltd
Song ling Road 399
Qingdao 266000
CN

8C-B8-4A (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
8CB84A (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T. Bangsamak SEMTHAI, WELLGROW INDUSTRIAL ESTATE
Bangpakong Chachoengsao 24180
TH

98-E8-FA (hex) Nintendo Co.,Ltd
98E8FA (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

D4-6B-A6 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D46BA6 (base
16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

CC-05-77 (hex) HUAWEI TECHNOLOGIES CO.,LTD
CC0577 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A8-93-52 (hex) SHANGHAI ZHONGMI COMMUNICATION TECHNOLOGY CO.,LTD
A89352 (base 16) SHANGHAI ZHONGMI COMMUNICATION TECHNOLOGY CO.,LTD
RM510,418 Guiping Road,xuhui-Park
shanghai shanghai 200233
CN

E4-CC-9D (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
E4CC9D (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

A8-D0-E3 (hex) Systech Electronics Ltd
A8D0E3 (base 16) Systech Electronics Ltd
Lever Tech Centre, 69-71 King Yip Street,
, 852
HK

30-8B-B2 (hex) Cisco Systems, Inc
308BB2 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San
Jose CA 94568
US

E0-EB-62 (hex) Shanghai Hulu Devices Co., Ltd
E0EB62 (base 16) Shanghai Hulu Devices Co., Ltd
509 Caobao Road, Rm 101-2 Bld 9
Shanghai 200233

CN

98-BA-39 (hex) Doro AB
98BA39 (base 16) Doro AB
Jörgen Kocksgatan 1B
Malmö Skane 211 20
SE

6C-E8-C6 (hex) Earda Technologies co Ltd
6CE8C6 (base 16) Earda Technologies co Ltd
Block A,Lianfeng Creative Park, #2 Jisheng Rd., Nansha District
Guangzhou Guangdong 511455
CN

1C-41-76 (hex) China Mobile Group Device Co.,Ltd.
1C4176 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

48-21-6C (hex) China Mobile IOT Company Limited
48216C (base 16) China Mobile IOT Company Limited
Building D3,No.8 Yangliu North Road,Yubei District
CHONGQING CHONGQING 401121
CN

8C-BE-24 (hex) Tashang Semiconductor(Shanghai) Co., Ltd.
8CBE24 (base 16) Tashang Semiconductor(Shanghai)
Co., Ltd.
Room 903, Building 5, Minggu Science Park,No. 7001, Zhong Chun Road, Minhang District ,Shanghai 201101, P.R. China
Shanghai 123456
CN

E8-6F-38 (hex) CHONGQING FUGUI ELECTRONICS CO.,LTD.
E86F38 (base 16) CHONGQING FUGUI ELECTRONICS CO.,LTD.
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

94-DC-4E (hex) AEV, spol. s r. o.
94DC4E (base 16) AEV, spol. s r. o.
Jozky Silneho 2783/9
Kromeriz 76701
CZ

54-DE-D0 (hex) Sevio Srl
54DED0 (base 16) Sevio Srl

Via Dei Caniana 6/A
Bergamo Bergamo 24127
IT

08-68-8D (hex) New H3C Technologies Co., Ltd
08688D (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

08-B3-AF (hex) vivo Mobile Communication Co., Ltd.
08B3AF (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan
City,Guangdong, 523860
CN

30-86-2D (hex) Arista Network, Inc.
30862D (base 16) Arista Network, Inc.
5453 Great America Parkway
Santa Clara CA 95054
US

40-19-20 (hex) Movon Corporation
401920 (base 16) Movon Corporation
3Fl, Hyunjuk Bldg. 7 selleung-ro, 94gil, Gangnam-gu
Seoul 06161
KR

60-8B-0E (hex) Apple, Inc.
608B0E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

18-71-D5 (hex) Hazens Automotive Electronics(SZ)Co.,Ltd.
1871D5 (base 16) Hazens Automotive Electronics(SZ)Co.,Ltd.
C8 Building, Building 13, Zhongxin Innovation Industry City, No.12, Ganli No.6 Road, Ganli Industrial Park, Buji Street, Longgang District
Shenzhen Guangdong 518100
CN

AC-B1-EE (hex) SHENZHEN FENDA TECHNOLOGY CO., LTD
ACB1EE (base 16) SHENZHEN FENDA TECHNOLOGY CO., LTD
Fenda Hi-Tech Park, Zhoushi Road, Shiyan, Baoan
ShenZhen GuangDong 518108
CN

F8-AD-CB (hex) HMD Global Oy
F8ADCB
(base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo 02600
FI

00-01-78 (hex) MARGI Systems, Inc.
000178 (base 16) MARGI Systems, Inc.
3155 Kearney Street. - Ste.#200
Fremont CA 94538
US

58-C8-76 (hex) China Mobile (Hangzhou) Information Technology Co., Ltd.
58C876 (base 16) China Mobile (Hangzhou) Information Technology Co., Ltd.
No. 1600 Yuhangtang Road, Wuchang Street, Yuhang District
Hangzhou Zhejiang 310000
CN

50-E0-85 (hex) Intel Corporate
50E085 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

14-42-FC (hex) Texas Instruments
1442FC (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

AC-5D-5C (hex) FN-LINK TECHNOLOGY LIMITED
AC5D5C (base 16) FN-LINK TECHNOLOGY LIMITED
A Building,HuiXin industial park,No 31, YongHe road, Fuyong town, Bao'an District
SHENZHEN GUANGDONG 518100
CN

A4-AE-11 (hex) Hon Hai Precision
Industry Co., Ltd.
A4AE11 (base 16) Hon Hai Precision Industry Co., Ltd.
GuangDongShenZhen
ShenZhen GuangDong 518109
CN

2C-1E-4F (hex) Chengdu Qianli Network Technology Co., Ltd.
2C1E4F (base 16) Chengdu Qianli Network Technology Co., Ltd.
Room 1208, 4 Building, Ideal Center, NO.38 Tianyi Street, Chengdu High-tech Zone
Chengdu Sichuan 610000

CN

00-90-52 (hex) SELCOM ELETTRONICA S.R.L.
009052 (base 16) SELCOM ELETTRONICA S.R.L.
VIA GRANDI, 5
40013 CASTELMAGGIORE BO
IT

00-1A-83 (hex) Pegasus Technologies Inc.
001A83 (base 16) Pegasus Technologies Inc.
108 Pawnook Farm Rd.
Lenoir City TN 37771
US

6C-5E-3B (hex) Cisco Systems, Inc
6C5E3B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

D0-37-45 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
D03745 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and
Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

60-3A-7C (hex) TP-LINK TECHNOLOGIES CO.,LTD.
603A7C (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

D4-62-EA (hex) HUAWEI TECHNOLOGIES CO.,LTD
D462EA (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

54-BA-D6 (hex) HUAWEI TECHNOLOGIES CO.,LTD
54BAD6 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

94-0B-19 (hex) HUAWEI TECHNOLOGIES CO.,LTD
940B19 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park

Dongguan 523808
CN

70-C7-F2 (hex) HUAWEI TECHNOLOGIES CO.,LTD
70C7F2 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin
Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

DC-A6-32 (hex) Raspberry Pi Trading Ltd
DCA632 (base 16) Raspberry Pi Trading Ltd
Maurice Wilkes Building, Cowley Road
Cambridge CB4 0DS
GB

88-F5-6E (hex) HUAWEI TECHNOLOGIES CO.,LTD
88F56E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C8-C2-FA (hex) HUAWEI TECHNOLOGIES CO.,LTD
C8C2FA (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

88-B3-62 (hex) Nokia Shanghai Bell Co., Ltd.
88B362 (base 16) Nokia Shanghai Bell Co., Ltd.
No.388 Ning Qiao Road,Jin Qiao Pudong Shanghai 201206,P.R.China
Shanghai Pudong 201206
CN

08-47-D0 (hex) Nokia Shanghai Bell Co., Ltd.
0847D0 (base 16) Nokia Shanghai Bell Co., Ltd.
No.388 Ning Qiao Road,Jin Qiao Pudong Shanghai 201206,P.R.China
Shanghai
Pudong 201206
CN

CC-90-93 (hex) Hansong Tehnologies
CC9093 (base 16) Hansong Tehnologies
8 Kangping road, New development zone
Nanjing Jiangsu 210006
CN

BC-97-E1 (hex) Broadcom Limited

BC97E1 (base 16) Broadcom Limited
15191 Alton Parkway
Irvine CA 92618
US

28-D1-B7 (hex) Shenzhen YOUHUA Technology Co., Ltd
28D1B7 (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

0C-B7-71 (hex) ARRIS Group, Inc.
0CB771 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

24-16-6D (hex) HUAWEI TECHNOLOGIES CO.,LTD
24166D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

38-94-ED (hex) NETGEAR
3894ED (base 16) NETGEAR
350 East Plumeria Drive
San Jose
CA 95134
US

70-04-33 (hex) California Things Inc.
700433 (base 16) California Things Inc.
650 main st
redwood city CA 94063
US

CC-64-A6 (hex) HUAWEI TECHNOLOGIES CO.,LTD
CC64A6 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

30-31-7D (hex) Hosiden Corporation
30317D (base 16) Hosiden Corporation
4-33, Kitakyuhoji 1-chome
Yao Osaka 5810071
JP

F0-A9-68 (hex) Antailiye Technology Co.,Ltd
F0A968 (base 16) Antailiye Technology Co.,Ltd
7/F,Zhengjiyuan Buiding,2 Road,Qianjing, Xixiang, Baoan District,Shenzhen
SHEN ZHEN GUANGDONG 518000
CN

50-AF-4D (hex) zte corporation
50AF4D (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

C8-EA-F8 (hex) zte corporation
C8EAF8 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen
guangdong 518057
CN

14-84-30 (hex) MITAC COMPUTING TECHNOLOGY CORPORATION
148430 (base 16) MITAC COMPUTING TECHNOLOGY CORPORATION
3F., NO.1, R&D ROAD 2, HSINCHU SCIENCE PARK
HSINCHU 30076
TW

B8-A4-4F (hex) Axis Communications AB
B8A44F (base 16) Axis Communications AB
Emdalavägen 14
LUND 22369
SE

00-24-EB (hex) ClearPath Networks, Inc.
0024EB (base 16) ClearPath Networks, Inc.
1940 E. Mariposa Ave
El Segundo CA 90245
US

D8-13-99 (hex) Hui Zhou Gaoshengda Technology Co.,LTD
D81399 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.75,Zhongkai High-Tech Development District,Huizhou
Hui Zhou Guangdong 516006
CN

54-E0-19 (hex) Ring LLC
54E019 (base 16) Ring LLC
1523 26th St
Santa Monica CA 90404
US

5C-FA-FB (hex) Acubit
5CFAFB (base 16) Acubit
Afred Nobels Vej 21A
Aalborg Ø 9220
DK

9C-7B-EF (hex) Hewlett Packard
9C7BEF
(base 16) Hewlett Packard
11445 Compaq Center Drive
Houston TX 77070
US

84-8B-CD (hex) IEEE Registration Authority
848BCD (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

08-ED-ED (hex) Zhejiang Dahua Technology Co., Ltd.
08EDED (base 16) Zhejiang Dahua Technology Co., Ltd.
No.1199,Waterfront Road
Hangzhou Zhejiang 310053
CN

88-29-9C (hex) Samsung Electronics Co.,Ltd
88299C (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

7C-89-56 (hex) Samsung Electronics Co.,Ltd
7C8956 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

38-3B-26 (hex) Jiangsu Qinheng Co., Ltd.
383B26 (base 16) Jiangsu Qinheng Co., Ltd.
No. 18, Ningshuang Road
Nanjing Jiangsu 210012
CN

74-2E-DB (hex) Perinet GmbH
742EDB (base 16) Perinet GmbH
Rudower Chaussee 29
Berlin Berlin 12489

DE

20-17-42
(hex) LG Electronics
201742 (base 16) LG Electronics
222 LG-ro, JINWI-MYEON
Pyeongtaek-si Gyeonggi-do 451-713
KR

CC-88-26 (hex) LG Innotek
CC8826 (base 16) LG Innotek
26, Hanamsandan 5beon-ro
Gwangju Gwangsan-gu 506-731
KR

EC-5B-73 (hex) Advanced & Wise Technology Corp.
EC5B73 (base 16) Advanced & Wise Technology Corp.
5F, No. 3-2, Industry East 9th Road, Hsinchu Science Park,
Hsinchu City Hsinchu 30075
TW

DC-71-96 (hex) Intel Corporate
DC7196 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

D0-9C-7A (hex) Xiaomi Communications Co Ltd
D09C7A (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

1C-69-7A (hex) EliteGroup Computer Systems Co., LTD
1C697A (base 16) EliteGroup Computer Systems Co., LTD
No.239, Sec. 2, TiDing Blvd. Nei-Hu
Dist.
Taipei Taiwan 11439
TW

4C-17-44 (hex) Amazon Technologies Inc.
4C1744 (base 16) Amazon Technologies Inc.
P.O. Box 8102
Reno NV 89507
US

B0-30-55 (hex) China Mobile IOT Company Limited
B03055 (base 16) China Mobile IOT Company Limited

NO.8 Yu Ma Road, NanAn Area
Chongqing Chongqing 401336
CN

90-5C-34 (hex) Sirius Electronic Systems Srl
905C34 (base 16) Sirius Electronic Systems Srl
via Robinie, 33
Gravellona Toce VB 28883
IT

D4-6A-35 (hex) Cisco Systems, Inc
D46A35 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

14-C0-3E (hex) ARRIS Group, Inc.
14C03E (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

C0-89-AB (hex) ARRIS Group, Inc.
C089AB (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

D4-4D-A4 (hex) Murata Manufacturing Co., Ltd.
D44DA4 (base 16) Murata Manufacturing
Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

C8-2C-2B (hex) IEEE Registration Authority
C82C2B (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

80-20-DA (hex) Sagemcom Broadband SAS
8020DA (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

F8-E5-CF (hex) CGI IT UK LIMITED

F8E5CF (base 16) CGI IT UK LIMITED
20 Fenchurch Street, 14th Floor
London EC3M 3BY
GB

68-82-F2 (hex) grandcentrix GmbH
6882F2 (base 16) grandcentrix GmbH
Holzmarkt 1
Cologne NW 50676
DE

D4-20-B0 (hex) Mist Systems, Inc.
D420B0 (base 16) Mist Systems, Inc.
1601 South De Anza Blvd, Suite 248
Cupertino CA 95014
US

9C-49-7F (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
9C497F (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan
Lepas Penang 11900
MY

C4-E3-9F (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
C4E39F (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

24-79-F3 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
2479F3 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

80-A2-35 (hex) Edgecore Networks Corporation
80A235 (base 16) Edgecore Networks Corporation
1 Creation RD 3.
Hsinchu 30077
TW

C8-C6-4A (hex) Flextronics Tech.(Ind) Pvt Ltd
C8C64A (base 16) Flextronics Tech.(Ind) Pvt Ltd
365, Benjamin Road
Sricity Vardahiah Palem(M),Chilamathur Village, Chittoor Distict 517646
IN

00-A0-B0 (hex) I-O DATA DEVICE,INC.
00A0B0 (base 16) I-O DATA DEVICE,INC.
24-1, SAKURADA-MACHI
KANAZAWA, ISHIKAWA 920 na
JP

00-22-AF (hex) Safety Vision, LLC
0022AF
(base 16) Safety Vision, LLC
6100 W. Sam Houston Pkwy. North
Houston 77041
US

A0-91-A2 (hex) OnePlus Electronics (Shenzhen) Co., Ltd.
A091A2 (base 16) OnePlus Electronics (Shenzhen) Co., Ltd.
Room 201, Block A, No.1, 1st Qian Wan Road, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, China.
Shenzhen Guangdong 518000
CN

40-23-43 (hex) CHONGQING FUGUI ELECTRONICS CO.,LTD.
402343 (base 16) CHONGQING FUGUI ELECTRONICS CO.,LTD.
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

00-21-B7 (hex) LEXMARK INTERNATIONAL, INC.
0021B7 (base 16) LEXMARK INTERNATIONAL, INC.
740 West New Circle Road
Lexington KY 40550
US

68-84-7E (hex) FUJITSU LIMITED
68847E (base 16) FUJITSU LIMITED
403, Kosugi-cho 1-chome, Nakahara-ku
Kawasaki Kanagawa 211-0063
JP

F8-9A-78 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F89A78 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2
Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

88-F8-72 (hex) HUAWEI TECHNOLOGIES CO.,LTD
88F872 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808

CN

EC-56-23 (hex) HUAWEI TECHNOLOGIES CO.,LTD
EC5623 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

54-86-BC (hex) Cisco Systems, Inc
5486BC (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

30-EA-26 (hex) Sycada BV
30EA26 (base 16) Sycada BV
Burgemeester Stramanweg 105B
Amsterdam 1101 AA
NL

18-F1-8E (hex) ChipER Technology co. ltd
18F18E (base 16) ChipER Technology co. ltd
907 University Ave#299
Middleton WI 53562
US

00-30-85 (hex) Cisco Systems, Inc
003085 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San
Jose CA 94568
US

60-92-F5 (hex) ARRIS Group, Inc.
6092F5 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-80-B5 (hex) UNITED NETWORKS INC.
0080B5 (base 16) UNITED NETWORKS INC.
2178 PARAGON DRIVE
SAN JOSE CA 95131
US

B8-08-CF (hex) Intel Corporate
B808CF (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3

Kulim Kedah 09000
MY

60-5F-8D (hex) eero inc.
605F8D (base 16) eero inc.
500 Howard Street, Suite 900
SAN FRANCISCO CA 94105
US

C4-B3-6A (hex) Cisco Systems, Inc
C4B36A (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

70-F7-54 (hex) AMPAK Technology,Inc.
70F754 (base 16) AMPAK Technology,Inc.
3F, No.15-1 Zhonghua Road, Hsinchu Industrail Park, Hukou,
Hsinchu Hsinchu,Taiwan R.O.C. 30352
TW

6C-8B-D3 (hex) Cisco Systems, Inc
6C8BD3 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San
Jose CA 94568
US

68-97-4B (hex) Shenzhen Costar Electronics Co. Ltd.
68974B (base 16) Shenzhen Costar Electronics Co. Ltd.
No.94 Fuyuan 1st Road,Yuyuan Industrial Park,
Shenzhen Guangdong 518103
CN

34-E1-D1 (hex) IEEE Registration Authority
34E1D1 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

10-82-86 (hex) Luxshare Precision Industry Co.,Ltd
108286 (base 16) Luxshare Precision Industry Co.,Ltd
2nd floor, A building, Sanyo New Industrial Area, West of Maoyi, Shajing Baoan District
Shenzhen Shenzhen 518104
CN

14-B4-57 (hex) Silicon Laboratories
14B457 (base 16) Silicon Laboratories

7000 W. William Cannon Dr.
Austin TX 78735
US

DC-96-2C (hex) NST Audio Ltd
DC962C (base 16) NST Audio Ltd
32 Whitewall
Norton North Yorkshire YO17 9EH
GB

50-EC-50 (hex) Beijing Xiaomi Mobile Software Co., Ltd
50EC50 (base 16) Beijing Xiaomi Mobile
Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

60-63-F9 (hex) Ciholas, Inc.
6063F9 (base 16) Ciholas, Inc.
3700 Bell Rd
Newburgh IN 47630-7907
US

AC-8F-F8 (hex) Nokia
AC8FF8 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

60-03-A6 (hex) Inteno Broadband Technology AB
6003A6 (base 16) Inteno Broadband Technology AB
Stensätravägen 13
Skärholmen SE 127 39
SE

44-B2-95 (hex) Sichuan AI-Link Technology Co., Ltd.
44B295 (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou,Industrial Park
Anzhou,Industrial Park Sichuan 621000
CN

94-24-E1 (hex) Alcatel-Lucent Enterprise
9424E1 (base 16) Alcatel-Lucent Enterprise
26801 West Agoura Rd
Calabasas CA 91301
US

60-61-DF (hex) Z-meta Research LLC

6061DF (base 16) Z-meta Research LLC
8365 Quay Drive
Arvada CO 80003
US

70-57-BF
(hex) New H3C Technologies Co., Ltd
7057BF (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

08-97-98 (hex) COMPAL INFORMATION (KUNSHAN) CO., LTD.
089798 (base 16) COMPAL INFORMATION (KUNSHAN) CO., LTD.
NO. 25, THE 3RD Street KUNSHAN EXPORT PROCESSING ZONE
KUNSHAN SUZHOU 215300
CN

18-02-2D (hex) HUAWEI TECHNOLOGIES CO.,LTD
18022D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D8-BC-59 (hex) Shenzhen DAPU Microelectronics Co., Ltd
D8BC59 (base 16) Shenzhen DAPU Microelectronics Co., Ltd
Room B 503, No.2 Building, Tian'an Digital New Town, Huangge Middle Road, Longgang District
Shenzhen Guangdong 518100
CN

8C-79-F5 (hex) Samsung Electronics Co.,Ltd
8C79F5 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

24-6F-28
(hex) Espressif Inc.
246F28 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

00-12-2A (hex) VTech Telecommunications Ltd.
00122A (base 16) VTech Telecommunications Ltd.
23/F, Tai Ping Industrial Centre, Block 1
NA 00000
HK

00-04-22 (hex) Studio Technologies, Inc
000422 (base 16) Studio Technologies, Inc
7440 Frontage Rd
Skokie IL 60077-3212
US

80-DA-13 (hex) eero inc.
80DA13 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

48-F8-DB (hex) HUAWEI TECHNOLOGIES CO.,LTD
48F8DB (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C0-8A-CD (hex) Guangzhou Shiyuan Electronic Technology Company Limited
C08ACD (base 16) Guangzhou Shiyuan Electronic Technology Company Limited
No.6, 4th Yunpu Road, Yunpu industry District
Guangzhou
Guangdong 510530
CN

D8-1E-DD (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
D81EDD (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

D4-3F-CB (hex) ARRIS Group, Inc.
D43FCB (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

B0-51-8E (hex) Holl technology CO.Ltd.
B0518E (base 16) Holl technology CO.Ltd.
F2,Bld 27,Anle Industrial Park,Nantou Guankou No.2 Road
Shenzhen Guangdong 518052
CN

68-17-29 (hex) Intel Corporate
681729 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000

MY

28-52-E0 (hex) Layon international Electronic & Telecom Co.,Ltd
2852E0 (base 16) Layon international Electronic & Telecom Co.,Ltd
4rd Floor, Building 15, Juda Industrial Zone, ShiBei Industrial Road, HuiJiang , Da Shi Street, PanYu District,Guangzhou,China
guangzhou guangdong 511430
CN

7C-61-66
(hex) Amazon Technologies Inc.
7C6166 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

98-9B-CB (hex) AVM Audiovisuelles Marketing und Computersysteme GmbH
989BCB (base 16) AVM Audiovisuelles Marketing und Computersysteme GmbH
Alt-Moabit 95
Berlin Berlin 10559
DE

F8-CA-59 (hex) NetComm Wireless
F8CA59 (base 16) NetComm Wireless
LEVEL 5, 18-20 ORION RD. LANE COVE
LANE COVE WEST NSW 2066
AU

AC-F6-F7 (hex) LG Electronics (Mobile Communications)
ACF6F7 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

58-CB-52 (hex) Google, Inc.
58CB52 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

88-B2-91 (hex) Apple, Inc.
88B291 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C4-2A-D0 (hex) Apple, Inc.
C42AD0 (base 16) Apple, Inc.

1
Infinite Loop
Cupertino CA 95014
US

CC-D2-81 (hex) Apple, Inc.
CCD281 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F8-4D-33 (hex) Fiberhome Telecommunication Technologies Co.,LTD
F84D33 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

10-77-17 (hex) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
107717 (base 16) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
Unit East Block22-24/F,Skyworth semiconductor design Bldg., Gaoxin Ave.4.S.,Nanshan District,Shenzhen,China
SHENZHEN GUANGDONG 518057
CN

A8-6D-5F (hex) Raisecom Technology CO., LTD
A86D5F (base 16) Raisecom Technology CO., LTD
No. 11, East Area, No. 10 Block, East Xibeiwang Road
Beijing 100094
CN

48-E6-C0 (hex) SIMCom Wireless Solutions Co.,Ltd.
48E6C0 (base 16) SIMCom Wireless Solutions Co.,Ltd.
Building B,SIM Technology Building,No.633,Jinzhong Road
Shanghai
200335
CN

38-3C-9C (hex) Fujian Newland Payment Technology Co.,Ltd.
383C9C (base 16) Fujian Newland Payment Technology Co.,Ltd.
No. B602,Building #1,Haixia Jingmao Plaza,Fuzhou Bonded Area
Fuzhou Fujian 350015
CN

C0-2E-25 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
C02E25 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

20-0D-B0 (hex) Shenzhen Four Seas Global Link Network Technology Co., Ltd.
200DB0 (base 16) Shenzhen Four Seas Global Link Network Technology Co., Ltd.
Room 607-610, Block B, TAOJINDI Electronic Business Incubation Base
Tenglong Road, Longhua District, Shenzhen Guangdong 518000
CN

10-0C-6B (hex) NETGEAR
100C6B (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

58-EC-ED (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
58ECED (base 16) Integrated Device Technology (Malaysia)
Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

C4-F0-EC (hex) Fiberhome Telecommunication Technologies Co.,LTD
C4F0EC (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

D8-8D-C8 (hex) Atil Technology Co., LTD
D88DC8 (base 16) Atil Technology Co., LTD
Rm. 3, 21F., No.93, Sec. 2, Roosevelt Rd.,
Da'an Dist., Taipei City 106
TW

E8-0F-C8 (hex) Universal Electronics, Inc.
E80FC8 (base 16) Universal Electronics, Inc.
201 E. Sandpointe Ave
Santa Ana CA 92707
US

90-9A-77 (hex) Texas Instruments
909A77 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

04-EE-03 (hex) Texas Instruments
04EE03 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

4C-24-98 (hex) Texas Instruments
4C2498 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

7C-D9-5C (hex) Google,
Inc.
7CD95C (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

4C-AE-A3 (hex) Hewlett Packard Enterprise
4CAEA3 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

1C-2E-1B (hex) Suzhou Tremenet Communication Technology Co., Ltd.
1C2E1B (base 16) Suzhou Tremenet Communication Technology Co., Ltd.
Room 413, Nangong Building, 399 Linquan Street, SIP
Suzhou Jiangsu 215123
CN

00-EE-AB (hex) Cisco Systems, Inc
00EEAB (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

54-A7-03 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
54A703 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

90-7A-58 (hex) Zegna-Daidong Limited
907A58 (base 16) Zegna-Daidong Limited
Rooms 14-17, 18/F, Nan Fung
Commercial, Centre 19 Lam Lok Street, Kowloon Bay
Hong Kong 999077
HK

E0-09-BF (hex) SHENZHENTONG BO WEITECHNOLOGY Co.,LTD
E009BF (base 16) SHENZHENTONG BO WEITECHNOLOGY Co.,LTD
5th floor building 4 pengtengda industriallangkou communitydalang street longhua newly developed area

Shenzhen GuangDong 518000
CN

C8-AA-CC (hex) Private
C8AACC (base 16) Private

00-21-67 (hex) HWA JIN T&I Corp.
002167 (base 16) HWA JIN T&I Corp.
5F., SEHWA Bldg 164-24, Poi-dong, Gangnam-gu, Seoul, Korea
Gangnam-gu Seoul 135-960
KR

00-0B-86 (hex) Aruba, a Hewlett Packard Enterprise Company
000B86 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

D8-C7-C8 (hex) Aruba, a Hewlett Packard Enterprise Company
D8C7C8 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

B0-00-73 (hex) Wistron Neweb Corporation
B00073
(base 16) Wistron Neweb Corporation
No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu R.O.C. 308
TW

00-1B-F7 (hex) Lund IP Products AB
001BF7 (base 16) Lund IP Products AB
Dalbyv. 1
Lund Skåne 224 60
SE

84-69-91 (hex) Nokia
846991 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

00-13-1E (hex) peiker acustic GmbH
00131E (base 16) peiker acustic GmbH
Max-Planck-Strasse 28-32
Friedrichsdorf 61381
DE

78-36-07 (hex) Cermate Technologies Inc.
783607 (base 16) Cermate Technologies Inc.
7F-1, No 168 Lien-Chen Rd.
Chung-Ho Dist New Taipei City
TW

1C-24-EB (hex) Burlywood
1C24EB (base 16) Burlywood
1501 S Sunset Street
Longmont CO 80501
US

00-10-13 (hex) Kontron America, Inc.
001013 (base 16) Kontron America, Inc.
14118 Stowe Drive
Poway, CA 9206
US

70-3A-0E (hex) Aruba, a Hewlett Packard Enterprise Company
703A0E (base
16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

20-4C-03 (hex) Aruba, a Hewlett Packard Enterprise Company
204C03 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

A8-E2-C1 (hex) Texas Instruments
A8E2C1 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

58-C6-F0 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
58C6F0 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

84-A0-6E (hex) Sagemcom Broadband SAS
84A06E (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848

FR

88-4A-18 (hex) Opulinks
884A18 (base 16) Opulinks
F 28, No.328, Huashan Rd
Shanghai 200040
CN

00-11-5A (hex) Ivoclar Vivadent AG
00115A (base 16) Ivoclar Vivadent AG
Bendererstrasse
2
Schaan 9494
LI

A4-3E-A0 (hex) iComm HK LIMITED
A43EA0 (base 16) iComm HK LIMITED
Room 702 Kowloon Building 555 Nathan Road Kowloon HongKong
Kowloon NA
HK

64-C2-DE (hex) LG Electronics (Mobile Communications)
64C2DE (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

8C-44-4F (hex) HUMAX Co., Ltd.
8C444F (base 16) HUMAX Co., Ltd.
HUMAX Village, 216, Hwangsaeul-ro, Bu
Seongnam-si Gyeonggi-do 463-875
KR

00-67-62 (hex) Fiberhome Telecommunication Technologies Co.,LTD
006762 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

2C-C4-07 (hex) machineQ
2CC407 (base 16) machineQ
1900 market st
philadelphia PA 19103
US

40-DF-02 (hex) LINE BIZ Plus
40DF02 (base 16) LINE BIZ Plus
Alphadom Tower IV (6F), Bundangnaegok-ro 117, Bundang-gu

Seongnam Gyeonggi
13529
KR

D4-3B-04 (hex) Intel Corporate
D43B04 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

90-02-18 (hex) SKY UK LIMITED
900218 (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

14-4E-2A (hex) Ciena Corporation
144E2A (base 16) Ciena Corporation
7035 Ridge Road
Hanover MD 21076
US

00-07-CB (hex) FREEBOX SAS
0007CB (base 16) FREEBOX SAS
8 rue de la Ville l'Eveque
Paris 75008
FR

14-9F-B6 (hex) GUANGDONG GENIUS TECHNOLOGY CO., LTD.
149FB6 (base 16) GUANGDONG GENIUS TECHNOLOGY CO., LTD.
#126,BBK Road,Wusha,Chang'An
Dong Guan Guang Dong 523860
CN

DC-31-D1 (hex) vivo Mobile Communication Co., Ltd.
DC31D1 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

2C-2B-F9 (hex) LG Innotek
2C2BF9 (base 16) LG Innotek
26, Hanamsandan 5beon-ro
Gwangju
Gwangsan-gu 506-731
KR

84-13-9F (hex) zte corporation

84139F (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

B4-ED-19 (hex) Pie Digital, Inc.
B4ED19 (base 16) Pie Digital, Inc.
575 Market st., 8th floor
San Francisco CA 94105-2823
US

74-95-EC (hex) ALPSALPINE CO,.LTD
7495EC (base 16) ALPSALPINE CO,.LTD
6-1
Kakuda Miyagi-Pref 981-1595
JP

AC-5A-EE (hex) China Mobile Group Device Co.,Ltd.
AC5AEE (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

F0-51-EA (hex) Fitbit, Inc.
F051EA (base 16) Fitbit, Inc.
199 Fremont Street, 14th Fl
San Francisco CA 94105
US

50-33-F0 (hex) YICHEN (SHENZHEN) TECHNOLOGY CO.LTD
5033F0 (base 16) YICHEN (SHENZHEN) TECHNOLOGY CO.LTD
23F, Building C1, Nanshan iPark, No. 1001 Xueyuan Road, Nanshan District,
Shenzhen City, Guangdong, China
shenzhen 518044
CN

4C-E1-9E (hex) TECNO MOBILE LIMITED
4CE19E (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

44-1A-FA (hex) New H3C Technologies Co., Ltd
441AFA (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

04-07-2E (hex) VTech Electronics Ltd.
04072E (base 16) VTech Electronics Ltd.
23rd Floor, Block 1, Tai Ping Industrial Centre, 57 Ting Kok Road
Tai Po, N.T. NA
HK

FC-2B-B2 (hex) Actiontec Electronics, Inc
FC2BB2 (base 16) Actiontec Electronics, Inc
3301 Olcott St.
Santa Clara CA 95054
US

E0-9F-2A (hex) Iton Technology Corp.
E09F2A (base 16) Iton Technology Corp.
Room 1302, Block A, Building 4Huangge Road, Longgang District
Shenzhen Guangdong
518116
CN

9C-69-B4 (hex) IEEE Registration Authority
9C69B4 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

44-B4-33 (hex) tide.co.,ltd
44B433 (base 16) tide.co.,ltd
9F Kapeul GreatValley A-dong, Digitalro 9-ghil 32, Geumcheon-gu
seoul seoul ASIKRKS006
KR

00-06-F7 (hex) ALPSALPINE CO,.LTD
0006F7 (base 16) ALPSALPINE CO,.LTD
6-3-36 Furukawanakazato,
Osaki Miyagi-pref 989-6181
JP

00-07-04 (hex) ALPSALPINE CO,.LTD
000704 (base 16) ALPSALPINE CO,.LTD
6-3-36 Furukawanakazato,
Osaki Miyagi-pref 989-6181
JP

00-06-F5 (hex) ALPSALPINE CO,.LTD
0006F5 (base 16) ALPSALPINE CO,.LTD
6-3-36 Furukawanakazato,
Osaki Miyagi-pref 989-6181

JP

34-C7-31 (hex) ALPSALPINE CO,.LTD
34C731 (base 16) ALPSALPINE CO,.LTD
6-3-36 Furukawanakazato,
Osaki Miyagi-pref 989-6181
JP

64-D4-BD (hex) ALPSALPINE CO,.LTD
64D4BD (base 16) ALPSALPINE
CO,.LTD
6-1
KAKUDA-CITY MIYAGI-PREF 981-1595
JP

50-00-84 (hex) Siemens Canada
500084 (base 16) Siemens Canada
300 Applewood Crescent
Concord Ontario L4K 5C7
CA

70-BC-10 (hex) Microsoft Corporation
70BC10 (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

04-98-F3 (hex) ALPSALPINE CO,.LTD
0498F3 (base 16) ALPSALPINE CO,.LTD
6-1 NISHIDA
KAKUDA MIYAGI PREF 9876-8501
JP

00-21-4F (hex) ALPSALPINE CO,.LTD
00214F (base 16) ALPSALPINE CO,.LTD
1-2-1, Okinouchi,
Soma-city, Fukushima-pref., 976-8501
JP

24-7D-4D (hex) Texas Instruments
247D4D (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

DC-21-B9 (hex) Sentec Co.Ltd
DC21B9 (base 16) Sentec Co.Ltd
10, Baekseokgongdan 1-ro, Seobuk-gu

Cheonan-si Chungcheongnam-do 31094
KR

6C-DF-FB (hex) IEEE Registration Authority
6CDFFB (base 16) IEEE Registration Authority
445
Hoes Lane
Piscataway NJ 08554
US

20-32-33 (hex) SHENZHEN BILIAN ELECTRONIC CO.LTD
203233 (base 16) SHENZHEN BILIAN ELECTRONIC CO.LTD
NO.268 Fuqian Rd, Jutang community, Guanlan Town, Longhua New district
shenzhen guangdong 518000
CN

70-5E-55 (hex) Realme Chongqing MobileTelecommunications Corp Ltd
705E55 (base 16) Realme Chongqing MobileTelecommunications Corp Ltd
No.24 Nichang Boulevard, Huixing Block, Yubei District, Chongqing.
Chongqing China 401120
CN

B0-D5-68 (hex) Shenzhen Cultraview Digital Technology Co., Ltd
B0D568 (base 16) Shenzhen Cultraview Digital Technology Co., Ltd
F6,M6,Maqueling, High-tech park, Nanshan district
Shenzhen Guangdong 518057
CN

F0-0E-BF (hex) ZettaHash Inc.
F00EBF (base 16) ZettaHash Inc.
6F Chiyoda Ogawamachi Crosta, 1-11, Kanda Ogawamachi
Chiyoda-ku Tokyo 101-0052
JP

E4-98-BB (hex) Phyplus Microelectronics Limited
E498BB (base 16) Phyplus
Microelectronics Limited
304 Building 1 No.608 Sheng Xia Road
Shanghai 200000
CN

60-A1-1E (hex) Wuhan Maxsine Electric Co.,Ltd.
60A11E (base 16) Wuhan Maxsine Electric Co.,Ltd.
Building A6, Hangyu Building, No 7, Wuhan University Science Park Road, East Lake Development District,Wuhan,China.
Wuhan Hubei 430000
CN

C4-5B-F7 (hex) ants
C45BF7 (base 16) ants
1164-21,Haeun-daero, Haeundae-gu,
Busan 48069
KR

8C-DF-9D (hex) NEC Corporation
8CDF9D (base 16) NEC Corporation
7-1, Shiba 5-chome,
Tokyo Tokyo 108-8001
JP

70-35-09 (hex) Cisco Systems, Inc
703509 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

04-EA-56 (hex) Intel Corporate
04EA56 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

5C-41-5A (hex) Amazon.com, LLC
5C415A (base 16) Amazon.com, LLC
1200 12th Ave. South, Suite 1200
Seattle
98144
US

A8-B4-56 (hex) Cisco Systems, Inc
A8B456 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A4-94-26 (hex) Elgama-Elektronika Ltd.
A49426 (base 16) Elgama-Elektronika Ltd.
Visoriu str. 2
Vilnius LT-08300
LT

94-54-DF (hex) YST CORP.
9454DF (base 16) YST CORP.
A-1407, 767, Sinsu-ro, Suji-gu,
Yongin-si Gyeonggi-do 16827
KR

2C-A9-F0 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
2CA9F0 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

54-9B-72 (hex) Ericsson AB
549B72 (base 16) Ericsson AB
Torshamnsgatan 36
Stockholm SE-164 80
SE

A0-47-D7 (hex) Best IT World (India) Pvt Ltd
A047D7 (base 16) Best IT World (India) Pvt Ltd
87, Mistry Complex,, Midc Cross Road A, Andheri-East
Mumbai Maharashtra 400093
IN

68-99-CD (hex) Cisco Systems, Inc
6899CD
(base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

68-29-DC (hex) Ficosa Electronics S.L.U.
6829DC (base 16) Ficosa Electronics S.L.U.
Pol.Ind Can Mitjans s/n Viladecavalls Barcelona
Viladecavalls Barcelona ES08232
ES

F8-0D-F1 (hex) Sontex SA
F80DF1 (base 16) Sontex SA
rue de la gare
sonceboz Bern 2605
CH

10-40-F3 (hex) Apple, Inc.
1040F3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

44-28-A3 (hex) Jiangsu fulian Communication Technology Co., Ltd.
4428A3 (base 16) Jiangsu fulian Communication Technology Co., Ltd.
The south of lanling road, yongan new district
Danyang Jiangsu 212300

CN

10-C5-95 (hex) Lenovo
10C595 (base 16) Lenovo
1009 Think Place
Morrisvilee NC 27560
US

44-E6-6E (hex) Apple, Inc.
44E66E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C0-E8-62 (hex) Apple, Inc.
C0E862
(base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F4-06-16 (hex) Apple, Inc.
F40616 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

58-6B-14 (hex) Apple, Inc.
586B14 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

BC-B8-63 (hex) Apple, Inc.
BCB863 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

7C-BC-84 (hex) IEEE Registration Authority
7CBC84 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

78-0E-D1 (hex) TRUMPF Werkzeugmaschinen GmbH+Co.KG
780ED1 (base 16) TRUMPF Werkzeugmaschinen GmbH+Co.KG
Johann-Maus-Straße 2

Ditzingen 71254
DE

F8-2F-08 (hex) Molex CMS
F82F08 (base 16) Molex CMS
2222 Wellington Court
Lisle IL 60532
US

64-F8-1C (hex) Huawei Technologies Co., Ltd.
64F81C (base 16) Huawei Technologies Co., Ltd.
Bantian, Longgang District,
Shenzhen, 518129, P.R.C
Shenzhen GUANGDONG Province 518000
CN

70-BB-E9 (hex) Xiaomi Communications Co Ltd
70BBE9 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

00-D0-2D (hex) Resideo
00D02D (base 16) Resideo
2 Corporate Center Dr.
Melville NY 11747
US

08-35-1B (hex) Shenzhen Jialihua Electronic Technology Co., Ltd
08351B (base 16) Shenzhen Jialihua Electronic Technology Co., Ltd
Building 26,Xin'e Industrial Area,E'gongling Village,Pinghu Town,Longgang District
Shenzhen Guangdong 518111
CN

AC-15-85 (hex) silergy corp
AC1585 (base 16) silergy corp
Oleander Way802 West Bay RoadP.O. BOX 32052
Grand Cayman KYI-1208Cayman Islands 32052
US

AC-50-93 (hex) Magna Electronics Europe GmbH & Co. OHG
AC5093 (base 16) Magna Electronics Europe GmbH & Co. OHG
Kurfürst-Eppstein-Ring 9
Sailauf
Bavaria 63877
DE

9C-C8-FC (hex) ARRIS Group, Inc.

9CC8FC (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

2C-1C-F6 (hex) Alien Green LLC
2C1CF6 (base 16) Alien Green LLC
A. Kazbegi Ave., No24g, apt 227
Tbilisi Tbilisi 0160
GE

3C-8D-20 (hex) Google, Inc.
3C8D20 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

60-1D-91 (hex) Motorola Mobility LLC, a Lenovo Company
601D91 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

D4-C9-4B (hex) Motorola Mobility LLC, a Lenovo Company
D4C94B (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

0C-FE-5D (hex) IEEE Registration Authority
0CFE5D (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

80-69-40 (hex) LEXAR CO.,LIMITED
806940
(base 16) LEXAR CO.,LIMITED
10TH FLOOR,CHINA AEROSPACE CENTRE,143 HOI BUN ROAD,KWUN TONG,KOWLOON, HONG KONG
HONG KONG 999077
HK

B0-7E-11 (hex) Texas Instruments
B07E11 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

50-A0-A4 (hex) Nokia
50A0A4 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

10-98-C3 (hex) Murata Manufacturing Co., Ltd.
1098C3 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

10-C7-53 (hex) Qingdao Intelligent&Precise Electronics Co.,Ltd.
10C753 (base 16) Qingdao Intelligent&Precise Electronics Co.,Ltd.
No.218 Qianwangang Road
Qingdao Shangdong 266510
CN

F4-95-1B (hex) Hefei Radio Communication Technology Co., Ltd
F4951B (base 16) Hefei Radio Communication Technology Co., Ltd
No.108, YinXing Road, High-tech Development Zone
Hefei Anhui 230088
CN

6C-38-45
(hex) Fiberhome Telecommunication Technologies Co.,LTD
6C3845 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

D0-B6-0A (hex) Xingluo Technology Company Limited
D0B60A (base 16) Xingluo Technology Company Limited
28F, Building A, Aerospace Science And Technology Square, Nanshan District
ShenZhen GuangDong 518067
CN

04-92-26 (hex) ASUSTek COMPUTER INC.
049226 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

E8-AD-A6 (hex) Sagemcom Broadband SAS
E8ADA6 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848

FR

0C-1C-19 (hex) LONGCONN ELECTRONICS(SHENZHEN) CO.,LTD
0C1C19 (base 16) LONGCONN ELECTRONICS(SHENZHEN) CO.,LTD
Building B, No. 42 Xingye Road, Phoenix First Industrial Zone, Fuyong, Baoan District
Shenzhen Guangdong 518103
CN

E0-13-B5
(hex) vivo Mobile Communication Co., Ltd.
E013B5 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

E0-79-5E (hex) Wuxi Xiaohu Technology Co.,Ltd.
E0795E (base 16) Wuxi Xiaohu Technology Co.,Ltd.
FL.2, Building A10, 777 West Jianzhu Road, Binhu District
Wuxi Jiangsu Province 214000
CN

2C-61-04 (hex) SHENZHEN FENGLIAN TECHNOLOGY CO., LTD.
2C6104 (base 16) SHENZHEN FENGLIAN TECHNOLOGY CO., LTD.
ORIENTAL CYBERPORT, HIGHTECH 6 ROAD
SHENZHEN GUANGDONG 518057
CN

BC-93-25 (hex) Ningbo Joyson Preh Car Connect Co.,Ltd.
BC9325 (base 16) Ningbo Joyson Preh Car Connect Co.,Ltd.
No. 99, Qingyi Road
Ningbo Zhejiang 315040
CN

A4-FC-77 (hex) Mega Well Limited
A4FC77 (base 16) Mega Well Limited
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

8C-85-E6 (hex) Cleondris GmbH
8C85E6
(base 16) Cleondris GmbH
Zuercherstrasse 42
Uitikon ZH 8142
CH

84-32-6F (hex) GUANGZHOU AVA ELECTRONICS TECHNOLOGY CO.,LTD
84326F (base 16) GUANGZHOU AVA ELECTRONICS TECHNOLOGY CO.,LTD

Science town luogang district guangzhou city branch bead road 232 profit people park 301, building 2
guangzhou guangdong 510000
CN

C8-9C-13 (hex) Inspiremobile
C89C13 (base 16) Inspiremobile
Rm1412, Daeryung Techno-Town, 15th, 401 , Simin-daero, Dongan-gu
Anyang-si Gyeonggi-do 14057
KR

00-B1-E3 (hex) Cisco Systems, Inc
00B1E3 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A4-11-94 (hex) Lenovo
A41194 (base 16) Lenovo
1009 Think Place
Morrisvilee NC 27560
US

90-E7-10 (hex) New H3C Technologies Co., Ltd
90E710 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

30-29-52 (hex) Hillstone
Networks Inc
302952 (base 16) Hillstone Networks Inc
North Olympic Science & Technology Park Building #20 Floor #5, SouthBaosheng
Beijing 100192
CN

00-B4-F5 (hex) DongGuan Siyoto Electronics Co., Ltd
00B4F5 (base 16) DongGuan Siyoto Electronics Co., Ltd
Hecheng Industrial District, QiaoTou Town
DongGuan City Guangdong 523520
CN

98-3B-8F (hex) Intel Corporate
983B8F (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

54-27-8D (hex) NXP (China) Management Ltd.

54278D (base 16) NXP (China) Management Ltd.
21F, BM InterContinental Business Center, 100 Yu Tong Road
Shanghai Shanghai 200070
CN

0C-41-01 (hex) Ruichi Auto Technology (Guangzhou) Co., Ltd.
0C4101 (base 16) Ruichi Auto Technology (Guangzhou) Co., Ltd.
No. 171 Haibin Road, Nansha District, Guangzhou, China
Guangzhou Guangdong Province 511400
CN

00-B7-71 (hex) Cisco Systems, Inc
00B771
(base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

B0-AE-25 (hex) Varikorea
B0AE25 (base 16) Varikorea
#505 kolon digital tower aston, gasan, geumcheon
seoul 08502
KR

18-38-AE (hex) CONSPIN SOLUTION
1838AE (base 16) CONSPIN SOLUTION
2F, Geonwoong Bldg. 109, Gwanak-ro, Gwanak-gu
Seoul 08833
KR

04-CF-8C (hex) XIAOMI Electronics,CO.,LTD
04CF8C (base 16) XIAOMI Electronics,CO.,LTD
Xiaomi Building, No.68 Qinghe Middle Street
Haidian District Beijing 100085
CN

0C-75-12 (hex) Shenzhen Kunlun TongTai Technology Co.,Ltd.
0C7512 (base 16) Shenzhen Kunlun TongTai Technology Co.,Ltd.
Room 2401,B,Building 3,Tianan Yungu Industry Park,Gangtou community,bantian streets,Longgang District
Shenzhen Guangdong 518129
CN

40-26-19 (hex) Apple, Inc.
402619 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

6C-E8-5C (hex) Apple, Inc.
6CE85C
(base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E4-B2-FB (hex) Apple, Inc.
E4B2FB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

2C-CA-0C (hex) WITHUS PLANET
2CCA0C (base 16) WITHUS PLANET
1604, O'BIZTOWER, Pyeong Chon, 126, Beolmal-ro, Dongan-gu
Anyang-si Gyeonggi-do 14057
KR

80-7D-14 (hex) HUAWEI TECHNOLOGIES CO.,LTD
807D14 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

20-28-3E (hex) HUAWEI TECHNOLOGIES CO.,LTD
20283E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

04-91-62 (hex) Microchip Technology Inc.
049162 (base 16) Microchip Technology Inc.
2355 W. Chandler Blvd.
Chandler AZ 85224
US

F8-38-80 (hex) Apple, Inc.
F83880 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino
CA 95014
US

4C-56-9D (hex) Apple, Inc.
4C569D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

38-53-9C (hex) Apple, Inc.
38539C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

44-00-49 (hex) Amazon Technologies Inc.
440049 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

2C-79-D7 (hex) Sagemcom Broadband SAS
2C79D7 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

6C-C3-74 (hex) Texas Instruments
6CC374 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

68-47-49 (hex) Texas Instruments
684749 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

F8-D9-B8 (hex) Open Mesh, Inc.
F8D9B8 (base 16) Open Mesh, Inc.
111 SW 5th Ave Ste1150
Portland OR 97204
US

7C-69-6B (hex) Atmosic Technologies
7C696B (base 16) Atmosic
Technologies
12930 Saratoga Ave, Suite B6
Saratoga CA 95070
US

5C-D2-0B (hex) Yytek Co., Ltd.
5CD20B (base 16) Yytek Co., Ltd.
No.1 Bao Sheng South Road, Room 401, Ao Bei Technology Park, Ling Zhi Center

Beijing 100192
CN

4C-12-65 (hex) ARRIS Group, Inc.
4C1265 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

50-57-9C (hex) Seiko Epson Corporation
50579C (base 16) Seiko Epson Corporation
2070 Kotobuki Koaka
Matsumoto-shi Nagano-ken 399-8702
JP

D0-03-DF (hex) Samsung Electronics Co.,Ltd
D003DF (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

10-A2-4E (hex) GOLD3LINK ELECTRONICS CO., LTD
10A24E (base 16) GOLD3LINK ELECTRONICS CO., LTD
No.90,Sec.1,Com Lin Rd,Taipei 114,Taiwan,R.O.C
Taipei Taiwan 114
TW

C4-23-A2 (hex) PT. Emsonic Indonesia
C423A2 (base 16) PT. Emsonic Indonesia
Jl.Timor
Blok E5, MM2100 Industrial Town Jatiwangi Cikarang Barat
Bekasi Jawa Barat 17530
ID

B4-CB-57 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
B4CB57 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

B0-BE-76 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
B0BE76 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

4C-1B-86 (hex) Arcadyan Corporation
4C1B86 (base 16) Arcadyan Corporation

No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

00-50-0C (hex) e-Tek Labs, Inc.
00500C (base 16) e-Tek Labs, Inc.
1057 EAST HENRIETTA RD.
ROCHESTER NY 14623
US

48-5F-99 (hex) Cloud Network Technology (Samoa) Limited
485F99 (base 16) Cloud Network Technology (Samoa) Limited
Building D21,No.1, East
Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

88-F7-BF (hex) vivo Mobile Communication Co., Ltd.
88F7BF (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

E8-6A-64 (hex) LCFC(HeFei) Electronics Technology co., ltd
E86A64 (base 16) LCFC(HeFei) Electronics Technology co., ltd
YunGu Road 3188-1
Hefei Anhui 230000
CN

D8-7D-7F (hex) Sagemcom Broadband SAS
D87D7F (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

88-34-FE (hex) Bosch Automotive Products (Suzhou) Co. Ltd
8834FE (base 16) Bosch Automotive Products (Suzhou) Co. Ltd
No. 455 Xing Long Street,Suzhou Industrial Park,Suzhou P.R., 215021 China
Suzhou Jiangsu 215021
CN

58-B5-68 (hex) SECURITAS DIRECT ESPAÑA, SAU
58B568 (base 16) SECURITAS DIRECT ESPAÑA, SAU
C/ Priégola, 2
Pozuelo
de Alarcon Madrid 28224
ES

EC-C4-0D (hex) Nintendo Co.,Ltd
ECC40D (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

84-89-EC (hex) IEEE Registration Authority
8489EC (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

00-07-3A (hex) INVENTEL
00073A (base 16) INVENTEL
35, rue Toumefort
000 0000
FR

00-26-6C (hex) INVENTEC CORPORATION
00266C (base 16) INVENTEC CORPORATION
Inventec Building, 66 Hou-Kang Street Shih-Lin District,
Taipei 111
TW

00-8C-FA (hex) INVENTEC CORPORATION
008CFA (base 16) INVENTEC CORPORATION
No. 255, Jen-Ho Road Sec. 2, 33547,
Tachi Taoyuan 33547
TW

48-4A-E9 (hex) Hewlett Packard Enterprise
484AE9 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

84-6A-66 (hex) Sumitomo Kizai Co.,Ltd.
846A66 (base 16) Sumitomo Kizai Co.,Ltd.
1-45-1higashiikebukuro
tosimaku
tokyo 170-0013
JP

5C-FB-7C (hex) Shenzhen Jingxun Software Telecommunication Technology Co.,Ltd
5CFB7C (base 16) Shenzhen Jingxun Software Telecommunication Technology Co.,Ltd
3/F,A5 Building Zhiyuan Community No.1001,Xueyuan Road Nanshan District
Shenzhen Guangdong 518055
CN

FC-03-9F (hex) Samsung Electronics Co.,Ltd
FC039F (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

88-10-8F (hex) HUAWEI TECHNOLOGIES CO.,LTD
88108F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F4-63-1F (hex) HUAWEI TECHNOLOGIES CO.,LTD
F4631F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A4-9B-4F (hex) HUAWEI TECHNOLOGIES CO.,LTD
A49B4F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2
Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-05-1A (hex) 3COM EUROPE LTD
00051A (base 16) 3COM EUROPE LTD
3COM CENTRE
vvvvv UNITED KINGDOM
GB

08-00-4E (hex) 3COM EUROPE LTD
08004E (base 16) 3COM EUROPE LTD
3COM CENTRE
vvvvv UNITED KINGDOM
GB

00-30-1E (hex) 3COM EUROPE LTD
00301E (base 16) 3COM EUROPE LTD
BOUNDARY WAY
vvvvv UNITED KINGDOM
GB

00-50-04 (hex) 3COM
005004 (base 16) 3COM
5400 BAYFRONT PLAZA
SANTA CLARA CA 95052

US

00-01-03 (hex) 3COM
000103 (base 16) 3COM
5400 BAYFRONT PLAZA
SANTA CLARA CA 95052
US

02-C0-8C (hex) 3COM
02C08C (base 16) 3COM
5400 BAYFRONT PLAZA
SANTA CLARA CA 95052
US

7C-24-0C (hex) Telechips, Inc.
7C240C (base 16) Telechips, Inc.
19F~23F,Luther Bldg.42, Olympic-ro 35da-gil, Songpa-gu,
Seoul Seoul 05510
KR

00-20-3D (hex) Honeywell Environmental & Combustion
Controls
00203D (base 16) Honeywell Environmental & Combustion Controls
1985 Douglas Drive
Golden Valley MN 55422
US

00-40-84 (hex) Honeywell
004084 (base 16) Honeywell
512 Virginia Dr Ste A
Fort Washington PA 19034
US

A0-95-0C (hex) China Mobile IOT Company Limited
A0950C (base 16) China Mobile IOT Company Limited
NO.8 Yu Ma Road, NanAn Area
Chongqing Chongqing 401336
CN

2C-15-E1 (hex) Phicomm (Shanghai) Co., Ltd.
2C15E1 (base 16) Phicomm (Shanghai) Co., Ltd.
3666 SiXian Rd.,Songjiang District
Shanghai Shanghai 201616
CN

18-D7-17 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
18D717 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,

DONG GUAN GUANG DONG 523860
CN

80-B6-24 (hex) IVS
80B624 (base 16) IVS
807-809 , Woorim E-biz center, 35, Gwangnaru-ro 6-gil
Seoul Seongdong-gu 04799
KR

DC-F5-05 (hex) AzureWave
Technology Inc.
DCF505 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

CC-F0-FD (hex) China Mobile (Hangzhou) Information Technology Co., Ltd.
CCF0FD (base 16) China Mobile (Hangzhou) Information Technology Co., Ltd.
No. 1600 Yuhangtang Road, Wuchang Street, Yuhang District, Hangzhou, Zhejiang
Hangzhou Zhejiang 310000
CN

00-60-87 (hex) KANSAI ELECTRIC CO., LTD.
006087 (base 16) KANSAI ELECTRIC CO., LTD.
6-14-9 MIDORII, ASAMINAMI-KU
HIROSHIMA 731-01
JO

98-AE-71 (hex) VVDN Technologies Pvt Ltd
98AE71 (base 16) VVDN Technologies Pvt Ltd
B-22, Sec-34 , Info-city -I
Gurugram Haryana 122001
IN

1C-1B-B5 (hex) Intel Corporate
1C1BB5 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

D4-74-1B (hex) Beijing HuaDa ZhiBao Electronic System Co.,Ltd.
D4741B (base 16) Beijing HuaDa ZhiBao Electronic System Co.,Ltd.
No.1
Gaojiayuan,Chaoyang District,Beijing,China
Beijing Beijing 100015
CN

00-57-C1 (hex) LG Electronics (Mobile Communications)

0057C1 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

DC-F7-19 (hex) Cisco Systems, Inc
DCF719 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A4-D9-90 (hex) Samsung Electronics Co.,Ltd
A4D990 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

30-D1-6B (hex) Liteon Technology Corporation
30D16B (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

00-80-EB (hex) COMPCONTROL B.V.
0080EB (base 16) COMPCONTROL B.V.
STRATUMSED K31
THE
NL

AC-6E-1A (hex) SHENZHEN GONGJIN ELECTRONICS CO.,LT
AC6E1A (base 16) SHENZHEN GONGJIN ELECTRONICS CO.,LT
B116,B118,A211-A213,B201-B213,A311-A313,B411-413,BF08-09
Nanshan Medical Instrument Industry Park,
Shenzhen Guangdong 518067
CN

30-D3-2D (hex) devolo AG
30D32D (base 16) devolo AG
Charlottenburger Allee 67
Aachen NRW 52068
DE

BC-F2-AF (hex) devolo AG
BCF2AF (base 16) devolo AG
Charlottenburger Allee 67
Aachen NRW 52068
DE

E0-AF-4F (hex) Deutsche Telekom AG
E0AF4F (base 16) Deutsche Telekom AG
Friedrich-Ebert-Allee 140
Bonn 53113
DE

68-A8-E1 (hex) Wacom Co.,Ltd.
68A8E1 (base 16) Wacom Co.,Ltd.
Sumitomo Fudosan Shinjuku Grand Tower 31F,8-17-1
Nishi-shinjuku,Shinjuku-ku Tokyo 160-6131
JP

14-48-02 (hex) THE YEOLRIM Co.,Ltd.
144802 (base 16) THE YEOLRIM Co.,Ltd.
D-311,H Business Park,26,Beobwon-ro 9-gil Songpa-gu,Seoul Korea
Seoul 05836
KR

00-02-EB (hex) Pico Communications
0002EB (base 16) Pico Communications
20085 Stevens Creek Blvd.
Cupertino CA 95014
US

34-2E-B6 (hex) HUAWEI
TECHNOLOGIES CO.,LTD
342EB6 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

AC-92-32 (hex) HUAWEI TECHNOLOGIES CO.,LTD
AC9232 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-15-55 (hex) DFM GmbH
001555 (base 16) DFM GmbH
Lahrer Strasse 6
Lahr Baden-Württemberg 77933
US

00-0F-B0 (hex) Compal Electronics INC.
000FB0 (base 16) Compal Electronics INC.
No.8 , Nandong Road , PingZhen Dist.
Taoyuan Taiwan 32455
TW

00-02-3F (hex) Compal Electronics INC.
00023F (base 16) Compal Electronics INC.
No.8 , Nandong Road , PingZhen Dist.
Taoyuan Taiwan 32455
TW

DC-8B-28 (hex) Intel Corporate
DC8B28 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

B8-69-F4 (hex) Routerboard.com
B869F4 (base 16) Routerboard.com
Mikrotikls
SIA
Riga Riga LV1009
LV

BC-30-D9 (hex) Arcadyan Corporation
BC30D9 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

24-D7-6B (hex) Syntronic AB
24D76B (base 16) Syntronic AB
Utmarksvägen 33c
Gävle 80291
SE

40-31-3C (hex) XIAOMI Electronics,CO.,LTD
40313C (base 16) XIAOMI Electronics,CO.,LTD
Xiaomi Building, No.68 Qinghe Middle Street
Haidian District Beijing 100085
CN

28-3A-4D (hex) Cloud Network Technology (Samoa) Limited
283A4D (base 16) Cloud Network Technology (Samoa) Limited
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

B8-7C-6F (hex) NXP (China) Management Ltd.
B87C6F (base 16) NXP (China) Management Ltd.
21F, BM InterContinental Business Center, 100 Yu Tong Road
Shanghai Shanghai 200070

CN

30-5D-A6 (hex) ADVALY SYSTEM Inc.
305DA6
(base 16) ADVALY SYSTEM Inc.
7 KITA2 NISHI2 CYUO-KU
SAPPORO HOKKAIDO 060-0002
JP

04-79-B7 (hex) Texas Instruments
0479B7 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

C0-D0-FF (hex) China Mobile IOT Company Limited
C0D0FF (base 16) China Mobile IOT Company Limited
NO.8 Yu Ma Road, NanAn Area
Chongqing Chongqing 401336
CN

88-DF-9E (hex) New H3C Technologies Co., Ltd
88DF9E (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

2C-7C-E4 (hex) Wuhan Tianyu Information Industry Co., Ltd.
2C7CE4 (base 16) Wuhan Tianyu Information Industry Co., Ltd.
HUST Industry Park, East-Lake Development Zone
Wuhan Hubei 430223
CN

C4-FE-E2 (hex) AMICCOM Electronics Corporation
C4FEE2 (base 16) AMICCOM Electronics Corporation
10F, No.18, Taiyuan St., Zhubei City
Hsinchu Country Taiwan 30265
TW

E0-12-83 (hex)
Shenzhen Fanzhuo Communication Technology Co., Lt
E01283 (base 16) Shenzhen Fanzhuo Communication Technology Co., Lt
No.1003 Kesi Road, Hi-Tech Park,
Shenzhen Nanshan District 2602-2603
CN

84-C9-C6 (hex) SHENZHEN GONGJIN ELECTRONICS CO.,LT
84C9C6 (base 16) SHENZHEN GONGJIN ELECTRONICS CO.,LT

SONGGANG
SHENZHEN GUANGDONG 518105
CN

44-4B-5D (hex) GE Healthcare
444B5D (base 16) GE Healthcare
Kuortaneenkatu 2
Helsinki 00510
FI

FC-4A-E9 (hex) Castlenet Technology Inc.
FC4AE9 (base 16) Castlenet Technology Inc.
5F., No. 10, Daye Rd., Beitou Dist.
Taipei City 112030
TW

1C-75-08 (hex) COMPAL INFORMATION (KUNSHAN) CO., LTD.
1C7508 (base 16) COMPAL INFORMATION (KUNSHAN) CO., LTD.
NO. 25, THE 3RD Street KUNSHAN EXPORT PROCESSING ZONE
KUNSHAN SUZHOU 215300
CN

00-1B-38 (hex) COMPAL INFORMATION (KUNSHAN) CO., LTD.
001B38 (base 16) COMPAL INFORMATION (KUNSHAN) CO., LTD.

NO. 25, THE 3RD AVENUE
KUNSHAN CITY SUZHOU PROVINCE 215300
CN

00-23-5A (hex) COMPAL INFORMATION (KUNSHAN) CO., LTD.
00235A (base 16) COMPAL INFORMATION (KUNSHAN) CO., LTD.
NO 25, The 3rd street,
KuanShan SUZHOU 215300
CN

FC-45-96 (hex) COMPAL INFORMATION (KUNSHAN) CO., LTD.
FC4596 (base 16) COMPAL INFORMATION (KUNSHAN) CO., LTD.
NO. 25, THE 3RD Street KUNSHAN EXPORT PROCESSING ZON
KUNSHAN SUZHOU 215300
CN

A0-E5-34 (hex) Stratec Biomedical AG
A0E534 (base 16) Stratec Biomedical AG
Gewerbestrasse 37
Birkenfeld Baden Wuertemberg 75217
DE

D4-69-A5 (hex) Miura Systems Ltd.

D469A5 (base 16) Miura Systems Ltd.
Axis 40, Oxford Road, Stokenchurch
High Wycombe Buckinghamshire HP143SX
GB

88-B6-6B (hex) easynetworks
88B66B (base 16) easynetworks
Rd kaituo 1# kaituohuiyuan B 1020, shangdi
Beijing 100084
CN

24-F5-7E (hex) HWH CO., LTD.
24F57E (base 16) HWH
CO., LTD.
102-708, Digital Empire2, Sin-dong, Youngtong-gu
Suwon-si Gyeonggi-do 443-734
KR

8C-A0-48 (hex) Beijing NeTopChip Technology Co.,LTD
8CA048 (base 16) Beijing NeTopChip Technology Co.,LTD
309,Intergration Building Olympic Center, No.1 An Ding Road,Chao Yang District,,
Beijing 100029
CN

24-D3-F2 (hex) zte corporation
24D3F2 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

8C-81-26 (hex) ARCOM
8C8126 (base 16) ARCOM
ZAC de la Loyère
FRAGNES LA LOYERE 71530
FR

D4-7C-44 (hex) IEEE Registration Authority
D47C44 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

7C-96-D2 (hex) Fihonest communication co.,Ltd
7C96D2 (base 16) Fihonest communication co.,Ltd
The Frist Building ,ShangKeng Industrial Zone, Changping Town
Dongguan Guangdong 523560
CN

A0-CF-5B (hex) Cisco
Systems, Inc
A0CF5B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-24-21 (hex) MICRO-STAR INT'L CO., LTD.
002421 (base 16) MICRO-STAR INT'L CO., LTD.
No.69, Li-De St
Taipei Hsien 235
TW

00-60-D1 (hex) CASCADE COMMUNICATIONS
0060D1 (base 16) CASCADE COMMUNICATIONS
6 TECHNOLOGY PARK DRIVE
WESTFORD MA 01886
US

80-5E-4F (hex) FN-LINK TECHNOLOGY LIMITED
805E4F (base 16) FN-LINK TECHNOLOGY LIMITED
A Building,HuiXin industial park,No 31, YongHe road, Fuyong town, Bao'an District
SHENZHEN GUANGDONG 518100
CN

78-0C-F0 (hex) Cisco Systems, Inc
780CF0 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

0C-8C-24 (hex) SHENZHEN BILIAN ELECTRONIC CO.LTD
0C8C24 (base 16) SHENZHEN BILIAN ELECTRONIC CO.LTD
NO.268 Fuqian Rd, Jutang community, Guanlan Town, Longhua New district
shenzhen guangdong 518000
CN

8C-6D-77 (hex) HUAWEI
TECHNOLOGIES CO.,LTD
8C6D77 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E8-C5-7A (hex) Ufispace Co., LTD.
E8C57A (base 16) Ufispace Co., LTD.
9F., No. 81 Jhongcheng Rd., Tucheng Dist.,
New Taipei 23674

TW

30-24-32 (hex) Intel Corporate
302432 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

D0-C5-D8 (hex) LATECOERE
D0C5D8 (base 16) LATECOERE
135 Rue de Périole, BP25211
Toulouse Cedex 5 31 Haute-Garonne 31079
FR

70-54-B4 (hex) Vestel Elektronik San ve Tic. A.S.
7054B4 (base 16) Vestel Elektronik San ve Tic. A.S.
Organize san
Manisa Turket 45030
TR

20-A6-0C (hex) Xiaomi Communications Co Ltd
20A60C (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

DC-E8-38
(hex) CK Telecom (Shenzhen) Limited
DCE838 (base 16) CK Telecom (Shenzhen) Limited
Floor 9th, Building 4C,Software Industry Base, Xuefu Road, Hi-Tech Park, Nanshan Dist.
Shenzhen Guangdong 518057
CN

A8-D4-98 (hex) Avira Operations GmbH & Co. KG
A8D498 (base 16) Avira Operations GmbH & Co. KG
Kaplaneiweg 1
Tettnang Baden-Wuerttermberg 88069
DE

60-D0-2C (hex) Ruckus Wireless
60D02C (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

D0-58-FC (hex) SKY UK LIMITED
D058FC (base 16) SKY UK LIMITED
130 Kings Road

Brentwood Essex 08854
GB

50-59-67 (hex) Intent Solutions Inc
505967 (base 16) Intent Solutions Inc
730 Peachtree St NE, Suite 550
ATLANTA GA 30308
US

00-06-80 (hex) Card Access, Inc.
000680 (base 16) Card Access, Inc.
11778 S. Election Rd
Salt Lake City UT 80420
US

48-8A-D2 (hex) MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
488AD2
(base 16) MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
Mid-Fourth Flr.,Building 28,Cui Xi Fourth Road,Ke Yuan West,Nanshan
Shenzhen Guangdong 518057
CN

FC-A6-CD (hex) Fiberhome Telecommunication Technologies Co.,LTD
FCA6CD (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

44-C8-74 (hex) China Mobile Group Device Co.,Ltd.
44C874 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

3C-57-6C (hex) Samsung Electronics Co.,Ltd
3C576C (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

84-17-66 (hex) WEIFANG GOERTEK ELECTRONICS CO.,LTD
841766 (base 16) WEIFANG GOERTEK ELECTRONICS CO.,LTD
Gaoxin 2 Road,Free Trade Zone,Weifang,Shandong,261205,P.R.China
Wei Fang Shan Dong
CN

2C-4D-79 (hex) WEIFANG GOERTEK ELECTRONICS CO.,LTD
2C4D79 (base 16) WEIFANG

GOERTEK ELECTRONICS CO.,LTD
No.268 Dongfang Road
Weifang Shandong 261000
CN

14-57-9F (hex) HUAWEI TECHNOLOGIES CO.,LTD
14579F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B4-43-26 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B44326 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

38-56-B5 (hex) Peerbridge Health Inc
3856B5 (base 16) Peerbridge Health Inc
3 Columbus Circle 15th Fl
New York NY 10019
US

00-0C-42 (hex) Routerboard.com
000C42 (base 16) Routerboard.com
Pernavas 46
Riga LV-1009
LV

00-26-BD (hex) JTEC Card & Communication Co., Ltd
0026BD (base 16) JTEC Card & Communication Co., Ltd
Dabo Bldg, 4F, 61-1, Gyesu-dong, Sosa-gu
Bucheon Gyunggi-do 422-070
KR

04-AB-18 (hex) ELECOM CO.,LTD.
04AB18 (base 16) ELECOM
CO.,LTD.
2F Kudan First Place Bldg. 4-1-28
Chiyoda-ku Kudan Kita 102-0073
JP

F8-5C-4D (hex) Nokia
F85C4D (base 16) Nokia
1 Robbins Road
Westford MA 01886-4113
US

2C-58-4F (hex) ARRIS Group, Inc.
2C584F (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

E4-EA-83 (hex) SHENZHEN GONGJIN ELECTRONICS CO.,LT
E4EA83 (base 16) SHENZHEN GONGJIN ELECTRONICS CO.,LT
SONGGANG
SHENZHEN GUANGDONG 518105
CN

74-EC-42 (hex) Fiberhome Telecommunication Technologies Co.,LTD
74EC42 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

18-66-C7 (hex) Shenzhen Libre Technology Co., Ltd
1866C7 (base 16) Shenzhen Libre Technology Co., Ltd
634, Tian Hui Building #B, You Song Lu, Long Hua District
Shenzhen 511700
CN

5C-B3-F6 (hex) Human, Incorporated
5CB3F6 (base 16) Human, Incorporated
3100 Airport Way S,
25-512
Seattle WA 98134
US

2C-48-35 (hex) IEEE Registration Authority
2C4835 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

48-2A-E3 (hex) Wistron InfoComm(Kunshan)Co.,Ltd.
482AE3 (base 16) Wistron InfoComm(Kunshan)Co.,Ltd.
168# First Avenue,Kunshan Integrated Free Trade Zone,Kunshan,Jiangsu,China
Kunshan Jiangsu 215300
CN

70-9F-A9 (hex) TECNO MOBILE LIMITED
709FA9 (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077

HK

0C-01-DB (hex) Infinix mobility limited
0C01DB (base 16) Infinix mobility limited
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN
HONG KONG
HongKong HongKong 999077
HK

08-C5-E1 (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
08C5E1 (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T.
Bangsamak SEMTHAI, WELLGROW INDUSTRIAL ESTATE
Bangpakong Chachoengsao 24180
TH

74-C1-4F (hex) HUAWEI TECHNOLOGIES CO.,LTD
74C14F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B0-EB-57 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B0EB57 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

78-D2-94 (hex) NETGEAR
78D294 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

A8-5B-6C (hex) Robert Bosch Gmbh, CM-CI2
A85B6C (base 16) Robert Bosch Gmbh, CM-CI2
Renningen
Stuttgart D-70465
DE

C8-B1-EE (hex) Qorvo
C8B1EE (base 16) Qorvo
1 Changi Business Park Crescent, Avenue 1, #04-01
NA 486058
SG

18-69-DA (hex) China Mobile Group Device Co.,Ltd.
1869DA (base 16) China Mobile Group Device Co.,Ltd.

32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

00-FC-BA (hex) Cisco Systems, Inc
00FCBA (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

4C-C0-0A (hex) vivo Mobile Communication Co., Ltd.
4CC00A (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

9C-E8-2B (hex) vivo Mobile Communication Co., Ltd.
9CE82B (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

70-79-B3 (hex) Cisco Systems, Inc
7079B3 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

14-9B-2F (hex) JiangSu ZhongXie Intelligent Technology co., LTD
149B2F (base 16) JiangSu ZhongXie Intelligent Technology co., LTD
Room 201,building 15, 16,FengJi set avenue (C08),YuHua district economic development zone ,NanJing city,JiangSu province,China,PRC.
NanJing JiangSu 210000
CN

38-35-FB
(hex) Sagemcom Broadband SAS
3835FB (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

9C-7F-57 (hex) UNIC Memory Technology Co Ltd
9C7F57 (base 16) UNIC Memory Technology Co Ltd
15/F, Building B, Truth Plaza, No.7 Zhichun Road
Beijing Haidian District 102208
CN

B4-E0-1D (hex) CONCEPTION ELECTRONIQUE
B4E01D (base 16) CONCEPTION ELECTRONIQUE
3 boulevard de l'europe
NEUFCHATEL EN BRAY 76270
FR

1C-00-42 (hex) NARI Technology Co., Ltd.
1C0042 (base 16) NARI Technology Co., Ltd.
NO.19 Chengxin Avenue, Nanjing
Nanjing 211106
CN

A0-75-EA (hex) BoxLock, Inc.
A075EA (base 16) BoxLock, Inc.
931 Monroe Dr Ste A 102-405
Atlanta GA 30308
US

F0-4C-D5 (hex) Maxlinear, Inc
F04CD5 (base 16) Maxlinear, Inc
5966 La Place Ct. Ste# 100
Carlsbad CA 92008
US

00-CB-B4 (hex) SHENZHEN ATEKO PHOTOELECTRICITY
CO.,LTD
00CBB4 (base 16) SHENZHEN ATEKO PHOTOELECTRICITY CO.,LTD
4-5F,E1 Building,TCL International E City,No.1001 Zhongshanyuan Road,Nanshan District,Shenzhen
SHENZHEN GUANGDONG 518052
CN

48-DD-9D (hex) ITEL MOBILE LIMITED
48DD9D (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

E0-BA-B4 (hex) Arrcus, Inc
E0BAB4 (base 16) Arrcus, Inc
2077 Gateway Pl, Suite 250,
San Jose CA 95110
US

80-7D-3A (hex) Espressif Inc.
807D3A (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203

CN

00-01-AE (hex) Trex Enterprises
0001AE (base 16) Trex Enterprises
590 Lipoa Parkway
Kihei HI 96753
US

00-E0-09 (hex) Stratus Technologies
00E009 (base 16) Stratus Technologies
5 Mill and Main Place, Suite 500
Maynard MA 01754
US

A0-B0-45
(hex) Halong Mining
A0B045 (base 16) Halong Mining
13/F TCL Tower, No.8 Tai Chung Road
Tsuen Wan New Territories Tsuen Wan New Territories
HK

EC-AF-97 (hex) GIT
ECAF97 (base 16) GIT
05655, GIT Bldg., 87, Macheon-ro, Songpa-gu, Seoul, Korea
Songpa-gu Seoul 05655
KR

D4-FC-13 (hex) Fiberhome Telecommunication Technologies Co.,LTD
D4FC13 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

70-1D-08 (hex) 99IOT Shenzhen co.,ltd
701D08 (base 16) 99IOT Shenzhen co.,ltd
609C north block, Cangsong Building, Tairan Seven Road, Futian District
Shenzhen Guangdong 518000
CN

44-34-A7 (hex) ARRIS Group, Inc.
4434A7 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

3C-E1-A1 (hex) Universal Global Scientific Industrial Co., Ltd.
3CE1A1 (base 16) Universal Global Scientific Industrial Co., Ltd.
141, Lane 351,

Taiping Road, Sec.1,Tsao Tuen
Nan-Tou Taiwan 54261
TW

F8-98-EF (hex) HUAWEI TECHNOLOGIES CO.,LTD
F898EF (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

58-F9-87 (hex) HUAWEI TECHNOLOGIES CO.,LTD
58F987 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

68-CA-E4 (hex) Cisco Systems, Inc
68CAE4 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

78-1D-4A (hex) zte corporation
781D4A (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

00-10-27 (hex) L-3 COMMUNICATIONS EAST
001027 (base 16) L-3 COMMUNICATIONS EAST
ONE FEDERAL STREET - A&E-3ES
CAMDEN NJ 08102
US

58-9B-0B (hex) Shineway Technologies, Inc.
589B0B (base 16) Shineway Technologies, Inc.
Floor
5, Huanxing Building
Beijing 100191
CN

D8-16-0A (hex) Nippon Electro-Sensory Devices
D8160A (base 16) Nippon Electro-Sensory Devices
Itachibori 2-5-12
Nishi-ku Osaka 550-0012
JP

10-C0-7C (hex) Blu-ray Disc Association

10C07C (base 16) Blu-ray Disc Association
4444 Riverside Drive #103
Burbank California 91505
US

E4-B0-21 (hex) Samsung Electronics Co.,Ltd
E4B021 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

9C-E8-95 (hex) New H3C Technologies Co., Ltd
9CE895 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

00-58-3F (hex) PC Aquarius
00583F (base 16) PC Aquarius
Comcity Office Park, Kievskoe shosse, est.6, bld. 1, Rumyantsevo, Moscow, 108811, RF
Moscow 108811
RU

90-3D-68 (hex) G-Printec, Inc.
903D68 (base 16) G-Printec, Inc.
Kawasaki Tech Center 5F,
580-16, Horikawacho
Saiwai-ku, Kawasaki-shi Kanagawa 212-0013
JP

10-94-BB (hex) Apple, Inc.
1094BB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A8-F5-AC (hex) HUAWEI TECHNOLOGIES CO.,LTD
A8F5AC (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

58-BA-D4 (hex) HUAWEI TECHNOLOGIES CO.,LTD
58BAD4 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

BC-26-43 (hex) Elprotronic Inc.
BC2643 (base 16) Elprotronic Inc.
35 Austin Rumble Crt.
King City ON L7B0B2
CA

04-E2-29 (hex) Qingdao Haier Technology Co.,Ltd
04E229 (base 16) Qingdao Haier Technology Co.,Ltd
Building A01,Haier Information Park, No.1 Haier Road,
Qingdao Shandong 266101
CN

74-12-BB (hex) Fiberhome Telecommunication Technologies Co.,LTD
7412BB (base 16) Fiberhome
Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

34-8B-75 (hex) LAVA INTERNATIONAL(H.K) LIMITED
348B75 (base 16) LAVA INTERNATIONAL(H.K) LIMITED
UNIT L 1/F MAU LAM COMM BLDG 16-18 MAU LAM ST, JORDAN KL, HK
Hong kong 999077
CN

20-47-DA (hex) Xiaomi Communications Co Ltd
2047DA (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

00-BE-3B (hex) HUAWEI TECHNOLOGIES CO.,LTD
00BE3B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

7C-A1-77 (hex) HUAWEI TECHNOLOGIES CO.,LTD
7CA177 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

24-2E-02 (hex) HUAWEI TECHNOLOGIES CO.,LTD
242E02 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2
Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808

CN

78-B6-EC (hex) Scuf Gaming International LLC
78B6EC (base 16) Scuf Gaming International LLC
3970 Johns Creek Court Suite 325 Suwanee
Atlanta GA 30024
US

80-35-C1 (hex) Xiaomi Communications Co Ltd
8035C1 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

08-DF-CB (hex) Systrome Networks
08DFCB (base 16) Systrome Networks
Sohna Road
Gurgaon Haryana 122018
IN

A4-93-3F (hex) HUAWEI TECHNOLOGIES CO.,LTD
A4933F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

34-E8-94 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
34E894 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen
Guangdong 518057
CN

28-AC-9E (hex) Cisco Systems, Inc
28AC9E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

F8-6F-C1 (hex) Apple, Inc.
F86FC1 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

28-FF-3C (hex) Apple, Inc.
28FF3C (base 16) Apple, Inc.
1 Infinite Loop

Cupertino CA 95014
US

F0-99-B6 (hex) Apple, Inc.
F099B6 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

88-E9-FE (hex) Apple, Inc.
88E9FE (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

38-89-2C (hex) Apple, Inc.
38892C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

74-9E-AF (hex) Apple, Inc.
749EAF (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

94-BF-2D (hex) Apple, Inc.
94BF2D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

58-B3-FC
(hex) SHENZHEN RF-LINK TECHNOLOGY CO.,LTD.
58B3FC (base 16) SHENZHEN RF-LINK TECHNOLOGY CO.,LTD.
Bldg56A,6/F,Baotian Rd3,Xixiang Town,Baoan District,
Shenzhen Guangdong 518000
CN

24-29-FE (hex) KYOCERA Corporation
2429FE (base 16) KYOCERA Corporation
30 Hoji
Kitami, Hokkaido 099-1595
JP

7C-49-EB (hex) XIAOMI Electronics,CO.,LTD
7C49EB (base 16) XIAOMI Electronics,CO.,LTD

Xiaomi Building, No.68 Qinghe Middle Street
Haidian District Beijing 100085
CN

C4-33-06 (hex) China Mobile Group Device Co.,Ltd.
C43306 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

A8-36-7A (hex) frogblue TECHNOLOGY GmbH
A8367A (base 16) frogblue TECHNOLOGY GmbH
Luxemburger Straße 6
Kaiserslautern Rheinland-Pfalz 67657
DE

98-45-62 (hex) Shanghai Baud Data Communication Co.,Ltd.
984562 (base 16) Shanghai Baud Data Communication Co.,Ltd.
NO.123
JULI RD
PUDONG ZHANGJIANG HIGH-TECH PARK SHANGHAI 201203
CN

68-D4-82 (hex) SHENZHEN GONGJIN ELECTRONICS CO.,LT
68D482 (base 16) SHENZHEN GONGJIN ELECTRONICS CO.,LT
SONGGANG
SHENZHEN GUANGDONG 518105
CN

10-E7-C6 (hex) Hewlett Packard
10E7C6 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston TX 77070
US

A4-33-D7 (hex) MitraStar Technology Corp.
A433D7 (base 16) MitraStar Technology Corp.
No. 6, Innovation Road II,
Hsinchu 300
TW

B0-AC-D2 (hex) zte corporation
B0ACD2 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

20-0F-70 (hex) FOXTECH

200F70 (base 16) FOXTECH
152-160 City Road
LONDON KEMP HOUSE EC1V 2NX
GB

20-2D-23 (hex) Collinear Networks Inc.
202D23 (base 16) Collinear Networks Inc.
2901 Tasman Drive
Santa Clara CA 95054
US

90-83-4B (hex) BEIJING YUNYI
TIMES TECHNOLOGY CO,.LTD
90834B (base 16) BEIJING YUNYI TIMES TECHNOLOGY CO,.LTD
1-411Room 19#Building No.26 Xihuan South Rd. BDA Daxing District,
BEIJING 100176
CN

18-50-2A (hex) SOARNEX
18502A (base 16) SOARNEX
NO.158, RUIHU ST., NEIHU DIST.,
TAIPEI CITY TAIWAN (R.O.C.) 11494
TW

78-8C-54 (hex) Ping Communication
788C54 (base 16) Ping Communication
Brenden 18
Appenzell Meistersrüte AI 9050
CH

B8-AF-67 (hex) Hewlett Packard
B8AF67 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

C0-98-DA (hex) China Mobile IOT Company Limited
C098DA (base 16) China Mobile IOT Company Limited
NO.8 Yu Ma Road, NanAn Area
Chongqing Chongqing 401336
CN

C0-48-E6 (hex) Samsung Electronics Co.,Ltd
C048E6 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

88-2E-5A (hex) storONE
882E5A (base 16) storONE
POB
2660
Ra'anana
IL

00-71-47 (hex) Amazon Technologies Inc.
007147 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

00-BE-75 (hex) Cisco Systems, Inc
00BE75 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

6C-E4-DA (hex) NEC Platforms, Ltd.
6CE4DA (base 16) NEC Platforms, Ltd.
2-3 Kandatsukasamachi
Chiyodaku Tokyo 101-8532
JP

E4-C4-83 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
E4C483 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

00-1F-BA (hex) Boyoung Tech
001FBA (base 16) Boyoung Tech
Youngdeungpo-Gu Munrae3ga 84-2
Seoul 150-093
KR

DC-A3-33 (hex) Shenzhen YOUHUA Technology Co., Ltd
DCA333 (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen
Guangdong 518055
CN

18-31-BF (hex) ASUSTek COMPUTER INC.
1831BF (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112

TW

F0-0F-EC (hex) HUAWEI TECHNOLOGIES CO.,LTD
F00FEC (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

AC-07-5F (hex) HUAWEI TECHNOLOGIES CO.,LTD
AC075F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

78-25-7A (hex) LEO Innovation Lab
78257A (base 16) LEO Innovation Lab
Silkegade 8
Copenhagen K Denmark 1113
DK

C8-FA-E1 (hex) ARQ Digital LLC
C8FAE1 (base 16) ARQ Digital LLC
2430 Auto Park Way
Escondido CA 92029
US

10-A4-B9 (hex) Baidu Online Network Technology (Beijing) Co., Ltd
10A4B9 (base 16) Baidu Online Network Technology (Beijing) Co., Ltd
Baidu Campus,
No.10 Shangdi 10th Street, Haidian District
Beijing 100085
CN

04-C2-41 (hex) Nokia
04C241 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

80-CE-62 (hex) Hewlett Packard
80CE62 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston TX 77070
US

80-1F-12 (hex) Microchip Technology Inc.
801F12 (base 16) Microchip Technology Inc.
2355 W. Chandler Blvd.

Chandler AZ 85224
US

50-6C-BE (hex) InnosiliconTechnology Ltd
506CBE (base 16) InnosiliconTechnology Ltd
WuHan East Lake Wuhan New Technology Development Zone
Wuhan Hubei Province 430223
CN

24-7E-12 (hex) Cisco Systems, Inc
247E12 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

50-1C-B0 (hex) Cisco Systems, Inc
501CB0 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

3C-47-9B (hex) Theissen Training Systems, Inc.
3C479B (base
16) Theissen Training Systems, Inc.
1225 SE 4th Terrace
Chiefland FL 32626
US

60-6B-FF (hex) Nintendo Co.,Ltd
606BFF (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

8C-F7-10 (hex) AMPAK Technology, Inc.
8CF710 (base 16) AMPAK Technology, Inc.
No.1,Jen Ai Road Hsinchu Industrial Park, Hukou
Hsinchu Taiwan ROC. 30352
TW

04-AC-44 (hex) Holtek Semiconductor Inc.
04AC44 (base 16) Holtek Semiconductor Inc.
No.3, Creation Rd. II, Science Park
Hsinchu 300
TW

F4-DC-A5 (hex) DAWON DNS
F4DCA5 (base 16) DAWON DNS

217ho, Sauphwajiwon-dong, KETI, 226, Cheomdangwagi-ro, Buk-gu
Gwangju 61011
KR

30-7B-AC (hex) New H3C Technologies Co., Ltd
307BAC (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

78-5D-C8 (hex) LG Electronics
785DC8 (base 16) LG Electronics
222 LG-ro,
JINWI-MYEON
Pyeongtaek-si Gyeonggi-do 451-713
KR

0C-54-15 (hex) Intel Corporate
0C5415 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

3C-04-61 (hex) ARRIS Group, Inc.
3C0461 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

E8-C1-B8 (hex) Nanjing Bangzhong Electronic Commerce Limited
E8C1B8 (base 16) Nanjing Bangzhong Electronic Commerce Limited
No.22, Liuzhou East Road, High - tech Zone
Nanjing 210000
CN

D8-D7-75 (hex) Sagemcom Broadband SAS
D8D775 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

E8-33-0D (hex) Xaptec GmbH
E8330D (base 16) Xaptec GmbH
Neidenburger Str. 10
Gelsenkirchen 45897
DE

B4-A8-B9 (hex) Cisco Systems, Inc

B4A8B9 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

50-DC-E7 (hex) Amazon Technologies
Inc.
50DCE7 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

64-98-29 (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
649829 (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

08-1D-C4 (hex) Thermo Fisher Scientific Messtechnik GmbH
081DC4 (base 16) Thermo Fisher Scientific Messtechnik GmbH
Frauenauracher Strasse 96
Erlangen 91056
DE

78-53-64 (hex) SHIFT GmbH
785364 (base 16) SHIFT GmbH
Am Gänsemarkt 6
Wabern Falkenberg Hessen 34590
DE

88-3D-24 (hex) Google, Inc.
883D24 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

38-E6-0A (hex) Xiaomi Communications Co Ltd
38E60A (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

D4-60-E3 (hex) Sercomm Corporation.
D460E3
(base 16) Sercomm Corporation.
3F,No.81,Yu-Yih Rd.,Chu-Nan Chen
Miao-Lih Hsuan 115
TW

40-CB-C0 (hex) Apple, Inc.
40CBC0 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C4-61-8B (hex) Apple, Inc.
C4618B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

08-E6-89 (hex) Apple, Inc.
08E689 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

DC-56-E7 (hex) Apple, Inc.
DC56E7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-5D-73 (hex) Cisco Systems, Inc
005D73 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

60-6D-3C (hex) Luxshare Precision Industry Company Limited
606D3C (base 16) Luxshare Precision Industry Company Limited
Floor 2, Block A, Sanyo New Industrial Area
West Haoyi Community, Shajing Subdistrict Office Bao'an District, Shenzhen, Guangdong 523000
CN

00-27-90
(hex) Cisco Systems, Inc
002790 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

DC-BF-E9 (hex) Motorola Mobility LLC, a Lenovo Company
DCBFE9 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654

US

CC-4D-38 (hex) Carnegie Technologies
CC4D38 (base 16) Carnegie Technologies
9737 Great Hills Trail #260
Austin TX 78759
US

CC-6E-A4 (hex) Samsung Electronics Co.,Ltd
CC6EA4 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

5C-5F-67 (hex) Intel Corporate
5C5F67 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

80-3A-59 (hex) AT&T
803A59 (base 16) AT&T
1025 Lenox Park Blvd
Atlanta GA 30319
US

F8-B5-68 (hex) IEEE Registration Authority
F8B568 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway
NJ 08554
US

2C-6B-7D (hex) Texas Instruments
2C6B7D (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

98-29-A6 (hex) COMPAL INFORMATION (KUNSHAN) CO., LTD.
9829A6 (base 16) COMPAL INFORMATION (KUNSHAN) CO., LTD.
NO. 25, THE 3RD Street KUNSHAN EXPORT PROCESSING ZONE
KUNSHAN SUZHOU 215300
CN

58-8D-64 (hex) Xi'an Clevbee Technology Co.,Ltd
588D64 (base 16) Xi'an Clevbee Technology Co.,Ltd
FLOOR 7, TOWER B, POSCO CENTER, NO. 13 ZONE FOUR WANGJING EAST PARK, CHAOYANG

DISTRICT, BEIJING
Beijing 100012
CN

A8-16-D0 (hex) Samsung Electronics Co.,Ltd
A816D0 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A4-6C-F1 (hex) Samsung Electronics Co.,Ltd
A46CF1 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

08-AE-D6 (hex) Samsung Electronics Co.,Ltd
08AED6 (base 16) Samsung Electronics
Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

34-BA-38 (hex) PAL MOHAN ELECTRONICS PVT LTD
34BA38 (base 16) PAL MOHAN ELECTRONICS PVT LTD
40 DLF, INDUSTRIAL AREA, KIRTI NAGAR
NEW DELHI DELHI 110015
IN

40-64-A4 (hex) THE FURUKAWA ELECTRIC CO., LTD
4064A4 (base 16) THE FURUKAWA ELECTRIC CO., LTD
2-2-3,Marunouchi
Chiyoda-ku Tokyo 100-8322
JP

D4-5D-DF (hex) PEGATRON CORPORATION
D45DDF (base 16) PEGATRON CORPORATION
5F No. 76, Ligong St., Beitou District
Taipei City Taiwan 112
TW

F0-65-C2 (hex) Yanfeng Visteon Electronics Technology (Shanghai) Co.,Ltd.
F065C2 (base 16) Yanfeng Visteon Electronics Technology (Shanghai) Co.,Ltd.
1001 North Qin Zhou Road
Shang Hai 200233
CN

70-B7-E2 (hex) Jiangsu Miter Technology Co.,Ltd.

70B7E2 (base 16) Jiangsu Miter Technology Co.,Ltd.
No.86 fuyuan community,the town of houbei
Jurong Jiangsu 212400
CN

80-B7-08 (hex) Blue
Danube Systems, Inc
80B708 (base 16) Blue Danube Systems, Inc
3131 Jay Street, Suite 201
Santa Clara CA 95054
US

80-8D-B7 (hex) Hewlett Packard Enterprise
808DB7 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

88-D1-71 (hex) BEGHELLI S.P.A
88D171 (base 16) BEGHELLI S.P.A
VIA MOZZEGHINE 13/15
LOCALITA' MONTEVEGLIO - COMUNE VALSAMOGGIA BOLOGNA 40053
IT

A8-25-EB (hex) Cambridge Industries(Group) Co.,Ltd.
A825EB (base 16) Cambridge Industries(Group) Co.,Ltd.
5/F,Building 8, 2388 ChenHang Road, MinHang District
shanghai 201114
CN

34-E3-80 (hex) Genexis B.V.
34E380 (base 16) Genexis B.V.
Lodewijkstraat 1A
Eindhoven 5652AC
NL

5C-58-19 (hex) Jingsheng Technology Co., Ltd.
5C5819 (base 16) Jingsheng Technology Co., Ltd.
Linyin street 5#
chengdu sichuan 610000
CN

B8-CA-04 (hex) Holtek Semiconductor Inc.
B8CA04 (base
16) Holtek Semiconductor Inc.
No.3, Creation Rd. II, Science Park
Hsinchu 300
TW

C4-C5-63 (hex) TECNO MOBILE LIMITED
C4C563 (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

A0-9D-86 (hex) Alcatel-Lucent Shanghai Bell Co., Ltd
A09D86 (base 16) Alcatel-Lucent Shanghai Bell Co., Ltd
No. 389, Ningqiao Road, Pudong Jinqiao
Shanghai 201206
CN

6C-B2-AE (hex) Cisco Systems, Inc
6CB2AE (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-C0-FF (hex) Seagate Cloud Systems Inc
00C0FF (base 16) Seagate Cloud Systems Inc
6305 El Camino Real
Carlsbad CA 92009
US

B0-98-2B (hex) Sagemcom Broadband SAS
B0982B (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

34-FA-9F
(hex) Ruckus Wireless
34FA9F (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

A0-9D-C1 (hex) China Dragon Technology Limited
A09DC1 (base 16) China Dragon Technology Limited
B4 Bldg.Haoshan 1st Industry Park,
Shenzhen Guangdong 518104
CN

2C-42-05 (hex) Lytx
2C4205 (base 16) Lytx
9785 Towne Centre Drive

San Diego CA 92121
US

F4-1E-5E (hex) RtBrick Inc.
F41E5E (base 16) RtBrick Inc.
26 Kingston Terrace
Princeton NJ 08540
US

6C-76-60 (hex) KYOCERA CORPORATION
6C7660 (base 16) KYOCERA CORPORATION
2-1-1 Kagahara
Yokohama-shi Kanagawa 224-8502
JP

00-21-02 (hex) UpdateLogic Inc.
002102 (base 16) UpdateLogic Inc.
2 Willow Street, Suite 101
Southborough MA 01745
US

50-58-00 (hex) WyTec International, Inc.
505800 (base 16) WyTec International, Inc.
19206 Huebner Rd Suite 202
San Antonio Texas 78258
US

C8-D1-2A (hex) Comtrend
Corporation
C8D12A (base 16) Comtrend Corporation
3F-1, 10 Lane 609, Chongxin Road, Section 5,
New Taipei City, Taiwan 24159
TW

0C-EA-C9 (hex) ARRIS Group, Inc.
0CEAC9 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

BC-F2-92 (hex) PLANTRONICS, INC.
BCF292 (base 16) PLANTRONICS, INC.
345 ENCINAL STREET
SANTA CRUZ CA 95060
US

04-50-DA (hex) Qiku Internet Network Scientific (Shenzhen) Co., Ltd
0450DA (base 16) Qiku Internet Network Scientific (Shenzhen) Co., Ltd

Building A2, Chi Yuen Technology Park 1001 College Avenue, Nanshan District Shenzhen, Guangdong
Shenzhen Guangdong 518000
CN

E8-20-E2 (hex) HUMAX Co., Ltd.
E820E2 (base 16) HUMAX Co., Ltd.
HUMAX Village, 216, Hwangsaeul-ro, Bu
Seongnam-si Gyeonggi-do 463-875
KR

18-90-D8 (hex) Sagemcom Broadband SAS
1890D8 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil
Malmaison Cedex hauts de seine 92848
FR

78-5C-28 (hex) Prime Motion Inc.
785C28 (base 16) Prime Motion Inc.
Akaho 1134-12
Komagane Nagano 399-4117
JP

EC-9F-0D (hex) IEEE Registration Authority
EC9F0D (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

08-BC-20 (hex) Hangzhou Royal Cloud Technology Co., Ltd
08BC20 (base 16) Hangzhou Royal Cloud Technology Co., Ltd
Hangzhou Xixi Road 957, 24, Unit 2, 302
Hangzhou 310030
CN

94-2A-3F (hex) Diversey Inc
942A3F (base 16) Diversey Inc
2415 Cascade Pointe Blvd
Charlotte NC 28208
US

20-31-EB (hex) HDSN
2031EB (base 16) HDSN
4 allée des roseaux
Saint mitre les remparts BDR 13920
FR

00-05-A7 (hex) HYPERCHIP Inc.

0005A7 (base 16) HYPERCHIP Inc.
180 Peel Street - Ste. #333
123 H3C 2G7
CA

00-26-A8 (hex) DAEHAP HYPER-TECH
0026A8 (base 16) DAEHAP HYPER-TECH
Mega center
#1108, SK Techno-Park, #190-1, Sangdaewon-Dong, Jungwon-Gu
Seongnam Gyeonggi-Do 462-807
KR

E0-78-A3 (hex) Shanghai Winner Information Technology Co.,Inc
E078A3 (base 16) Shanghai Winner Information Technology Co.,Inc
Lujiazui Software Park,No.190,Lane 91,Eshan Road,Pudong New Area
Shanghai Shanghai 200127
CN

88-83-5D (hex) FN-LINK TECHNOLOGY LIMITED
88835D (base 16) FN-LINK TECHNOLOGY LIMITED
No.8, Litong Road, Liuyang Economic & Technical Development Zone
ChangSha Hu Nan 410300
CN

F8-1D-0F (hex) Hitron Technologies. Inc
F81D0F (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

10-A4-BE (hex) SHENZHEN BILIAN ELECTRONIC CO.LTD
10A4BE (base 16) SHENZHEN BILIAN ELECTRONIC CO.LTD
NO.268 Fuqian Rd, Jutang community, Guanlan Town, Longhua New district
shenzhen guangdong 518000
CN

F8-C9-6C (hex) Fiberhome
Telecommunication Technologies Co.,LTD
F8C96C (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan City Hubei Province 430074
CN

84-48-23 (hex) WOXTER TECHNOLOGY Co. Ltd
844823 (base 16) WOXTER TECHNOLOGY Co. Ltd
23F Doushiyangguang, Chegongmiao
Shenzhen 518040
CN

94-7B-BE (hex) Ubicquia LLC
947BBE (base 16) Ubicquia LLC
BoA Building–Suite 1750, 401 E. Las Olas Boulevard
Fort Lauderdale FL 33301
US

EC-C0-6A (hex) PowerChord Group Limited
ECC06A (base 16) PowerChord Group Limited
1 Blythe Road
London W14 0HG
GB

94-49-96 (hex) WiSilica Inc
944996 (base 16) WiSilica Inc
23282 Mill Creek Dr #340
Laguna Hills CA 92653
US

8C-5B-F0 (hex) ARRIS Group, Inc.
8C5BF0 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

68-A6-82 (hex) Shenzhen YOUHUA Technology Co., Ltd
68A682 (base 16) Shenzhen YOUHUA Technology
Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

54-7A-52 (hex) CTE International srl
547A52 (base 16) CTE International srl
Via Sevardi 7
Reggio Emilia 42124
IT

24-F6-77 (hex) Apple, Inc.
24F677 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B0-CA-68 (hex) Apple, Inc.
B0CA68 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

C8-3C-85 (hex) Apple, Inc.
C83C85 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

54-33-CB (hex) Apple, Inc.
5433CB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

34-08-BC (hex) Apple, Inc.
3408BC (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

1C-36-BB (hex) Apple, Inc.
1C36BB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

3C-2E-FF
(hex) Apple, Inc.
3C2EFF (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-15-30 (hex) Dell EMC
001530 (base 16) Dell EMC
176 South Street
Hopkinton MA 01748
US

0C-B2-B7 (hex) Texas Instruments
0CB2B7 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

58-7A-62 (hex) Texas Instruments
587A62 (base 16) Texas Instruments
12500 TI Blvd

Dallas TX 75243
US

F0-6E-0B (hex) Microsoft Corporation
F06E0B (base 16) Microsoft Corporation
One Microsoft Way
REDMOND 98052
US

34-6F-ED (hex) Enovation Controls
346FED (base 16) Enovation Controls
5311 S. 122nd E. Ave.
Tulsa OK 74146
US

08-84-66 (hex) Novartis Pharma AG
088466 (base 16) Novartis Pharma AG
Lichtstrasse 35
Basel 4056
CH

30-9F-FB (hex) Ardomus Networks Corporation
309FFB (base 16) Ardomus Networks Corporation
4F,No. 6 Innovation Road II, Hsinchu Science
Park
Hsinchu 300
TW

00-E0-25 (hex) dit Co., Ltd.
00E025 (base 16) dit Co., Ltd.
Premier Toyocho Building
Koto-ku Tokyo 135-0056
JP

38-20-A8 (hex) ColorTokens, Inc.
3820A8 (base 16) ColorTokens, Inc.
2101 Tasman Dr. Suite 200A
Santa Clara CA 95054
US

70-58-96 (hex) InShow Technology
705896 (base 16) InShow Technology
Jinqi Zhigu Building, Chongwen Garden, Liuxian Avenue, Nanshan District
shenzhen Guangdong 518055
CN

00-B6-9F (hex) Latch
00B69F (base 16) Latch

450 W 33rd St
New York NY 10001
US

FC-EE-E6 (hex) FORMIKE ELECTRONIC CO., LTD
FCEEE6 (base 16) FORMIKE ELECTRONIC CO., LTD
Flats 401-403, Block B, iPARK Building, 26 Dengliang Rd., NanShan Distric
Shenzhen Guang Dong 518054
CN

98-C5-DB (hex) Ericsson AB
98C5DB (base 16) Ericsson AB
Torshamnsgatan 36
Stockholm SE-164 80
SE

00-05-89 (hex) National Datacomputer
000589 (base
16) National Datacomputer
900 Middlesex Tpk.
Billerica MA 01821
US

3C-A6-16 (hex) vivo Mobile Communication Co., Ltd.
3CA616 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

24-F2-7F (hex) Hewlett Packard Enterprise
24F27F (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

BC-05-43 (hex) AVM GmbH
BC0543 (base 16) AVM GmbH
Alt-Moabit 95
Berlin 10559
DE

3C-C0-79 (hex) Shenzhen One-Nine Intelligent Electronic Science and Technology Co., Ltd
3CC079 (base 16) Shenzhen One-Nine Intelligent Electronic Science and Technology Co., Ltd
Office 3015, Chuangxingda Business Building, No.36. Liuxian 3 Road, Baoan District
Shenzhen Guangdong 518133
CN

9C-E0-63 (hex) Samsung Electronics Co.,Ltd

9CE063 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D0-31-69
(hex) Samsung Electronics Co.,Ltd
D03169 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

14-9F-3C (hex) Samsung Electronics Co.,Ltd
149F3C (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

78-87-0D (hex) Unifiedgateways India Private Limited
78870D (base 16) Unifiedgateways India Private Limited
25 1st Floor 4th Cross KR Road Jayanagar 7th Block West
Bangalore Karnataka 560082
IN

A8-82-00 (hex) Hisense Electric Co.,Ltd
A88200 (base 16) Hisense Electric Co.,Ltd
Qianwangang Roard 218
Qingdao Shandong 266510
CN

84-2C-80 (hex) Sichuan Changhong Electric Ltd.
842C80 (base 16) Sichuan Changhong Electric Ltd.
No.35,East MianXin Road,MianYang,Sichaun,China.
MianYang SiChuan PRC 621000
CN

40-8B-F6 (hex) Shenzhen TCL New Technology Co., Ltd
408BF6 (base 16) Shenzhen TCL New Technology Co., Ltd
TCL
Building, #5 Central Nanhai Road, Nanshan District,
Shenzhen, Guangdong, 518067
CN

00-00-6B (hex) Silicon Graphics
00006B (base 16) Silicon Graphics
2011 NORTH SHORELINE BLVD.
MOUNTAIN VIEW CA 94039-7311
US

84-E3-27 (hex) TAILYN TECHNOLOGIES INC
84E327 (base 16) TAILYN TECHNOLOGIES INC
NO 10 RUNG-AN ROAD, LU-ZHU DISTRICT
TAOYUAN CITY TAIWAN ROC 33852
TW

00-21-B8 (hex) Inphi Corporation
0021B8 (base 16) Inphi Corporation
112 S. Lakeview Canyon Rd., Suite 100
Westlake Village CA 91362
US

E4-A7-C5 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E4A7C5 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A0-FE-61 (hex) Vivint Wireless Inc.
A0FE61 (base 16) Vivint Wireless Inc.
4931 N 300 W
Provo UT 84604
US

5C-2B-F5 (hex) Vivint Wireless Inc.
5C2BF5 (base 16) Vivint Wireless Inc.
4931 N 300 W
Provo
UT 84604
US

90-FD-9F (hex) Silicon Laboratories
90FD9F (base 16) Silicon Laboratories
400 W. Cesar Chavez St.
Austin TX 78701
US

A0-64-8F (hex) ASKEY COMPUTER CORP
A0648F (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585
TW

C8-50-E9 (hex) Raisecom Technology CO., LTD
C850E9 (base 16) Raisecom Technology CO., LTD
No. 11, East Area, No. 10 Block, East Xibeiwang Road
Beijing 100094

CN

74-37-3B (hex) UNINET Co.,Ltd.
74373B (base 16) UNINET Co.,Ltd.
#1803, Daerung Techno Town15, 401, Simin-daero, Dongan-gu
Anyang-si Gyunggi-do 14057
KR

7C-64-56 (hex) Samsung Electronics Co.,Ltd
7C6456 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

10-F1-63 (hex) TNK CO.,LTD
10F163 (base 16) TNK CO.,LTD
1 Kasugayama.Iitoyo
Tenei-village.Iwase-country Fukushima-prefecture 962-0512
JP

88-DA-1A
(hex) Redpine Signals, Inc.
88DA1A (base 16) Redpine Signals, Inc.
Plot 87, Sagar Society
Hyderabad AP 500034
IN

98-EF-9B (hex) OHSUNG
98EF9B (base 16) OHSUNG
335-4,SANHODAERO,GUMI,GYEONG BUK,KOREA
GUMI GYEONG BUK 730-030
KR

14-CF-8D (hex) OHSUNG
14CF8D (base 16) OHSUNG
181
GUMI KYUNGBUK 730-030
KR

10-44-00 (hex) HUAWEI TECHNOLOGIES CO.,LTD
104400 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B0-E1-7E (hex) HUAWEI TECHNOLOGIES CO.,LTD
B0E17E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park

Dongguan 523808
CN

0C-91-60 (hex) Hui Zhou Gaoshengda Technology Co.,LTD
0C9160 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.75,Zhongkai High-Tech Development District,Huizhou
Hui Zhou Guangdong 516006
CN

D8-ED-1C (hex) Magna
Technology SL
D8ED1C (base 16) Magna Technology SL
C/Principe de Vergara, 55. 3ª planta
Madrid 28006
ES

D8-31-34 (hex) Roku, Inc
D83134 (base 16) Roku, Inc
1155 Coleman Ave
San Jose CA 95110
US

F4-6E-24 (hex) NEC Personal Computers, Ltd.
F46E24 (base 16) NEC Personal Computers, Ltd.
Akihabara UDX,14-1, Sotokanda 4-Chome
Chiyoda-ku Tokyo 101-0021
JP

88-82-79 (hex) Shenzhen RB-LINK Intelligent Technology Co.Ltd
888279 (base 16) Shenzhen RB-LINK Intelligent Technology Co.Ltd
Second floor, No 22, Wanfeng the third industry area, Shajing , BaoAn district
Shenzhen City 518125
CN

68-C6-3A (hex) Espressif Inc.
68C63A (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

B4-30-C0 (hex) York Instruments Ltd
B430C0 (base 16) York Instruments Ltd
The Biocentre, York Science Park
York North Yorkshire YO10 5NY
GB

E8-1D-A8

(hex) Ruckus Wireless
E81DA8 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

5C-8D-2D (hex) Shanghai Wellpay Information Technology Co., Ltd
5C8D2D (base 16) Shanghai Wellpay Information Technology Co., Ltd
Loushanguan Road 523, Jin Hongqiao International Center Building, 1501
Shanghai 200000
CN

00-60-88 (hex) Analog Devices, Inc.
006088 (base 16) Analog Devices, Inc.
410 AMHERST STREET-STE #325
NASHUA NH 03063
US

08-4A-CF (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
084ACF (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

94-7E-B9 (hex) National Narrowband Network Communications Pty Ltd
947EB9 (base 16) National Narrowband Network Communications Pty Ltd
Unit 10, 1 Talavera Road
Macquarie Park New South Wales 2113
AU

00-C0-EE (hex) KYOCERA Display Corporation
00C0EE
(base 16) KYOCERA Display Corporation
2-14-9 TAMAGAWADAI
tokyo 158 0000
JP

2C-27-9E (hex) IEEE Registration Authority
2C279E (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

8C-5F-48 (hex) Continental Intelligent Transportation Systems LLC
8C5F48 (base 16) Continental Intelligent Transportation Systems LLC
3901 North First Street
San Jose CA 95134
US

24-5F-DF (hex) KYOCERA CORPORATION
245FDF (base 16) KYOCERA CORPORATION
2-1-1,Kagahara,
Yokohama-shi Kanagawa 224-8502
JP

9C-63-ED (hex) zte corporation
9C63ED (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

DC-F0-90 (hex) Nubia Technology Co.,Ltd.
DCF090 (base 16) Nubia Technology Co.,Ltd.
6/F-8/F 10/F-11/F A Tower,6/F B Tower,6/F-10/F C Tower Dazu Innovation Mansion, North Ring Rd,No.9018,High-Tech Park Nanshan District
Shenzhen
Guandong 518057
CN

CC-5A-53 (hex) Cisco Systems, Inc
CC5A53 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

70-6B-B9 (hex) Cisco Systems, Inc
706BB9 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

F0-3D-03 (hex) TECNO MOBILE LIMITED
F03D03 (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

64-6E-69 (hex) Liteon Technology Corporation
646E69 (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

D4-38-9C (hex) Sony Corporation
D4389C (base 16) Sony Corporation

1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

00-19-87 (hex) Panasonic Mobile Communications Co.,Ltd.
001987 (base 16) Panasonic Mobile Communications Co.,Ltd.
600 Saedo-cho, Tsuzuki-ku,
Yokohama
City Kanagawa Prefecture 224-8539
JP

BC-C3-42 (hex) Panasonic Communications Co., Ltd.
BCC342 (base 16) Panasonic Communications Co., Ltd.
4-1-62 Minoshima Hakata-ku
Fukuoka city Fukuoka 812-8531
JP

00-1B-D3 (hex) Panasonic Corporation AVC Networks Company
001BD3 (base 16) Panasonic Corporation AVC Networks Company
1-15 Matsuo-cho
Kadoma Osaka 571-8504
JP

CC-7E-E7 (hex) Panasonic Corporation AVC Networks Company
CC7EE7 (base 16) Panasonic Corporation AVC Networks Company
1-15 Matsuo-cho
Kadoma City Osaka 571-8504
JP

74-F6-61 (hex) Schneider Electric Fire & Security Oy
74F661 (base 16) Schneider Electric Fire & Security Oy
Sokerilinnantie 11 C
Espoo 02650
FI

2C-B2-1A (hex) Phicomm (Shanghai) Co., Ltd.
2CB21A (base 16) Phicomm (Shanghai) Co., Ltd.
3666 SiXian Rd.,Songjiang District
Shanghai Shanghai 201616
CN

E4-70-B8 (hex) Intel Corporate
E470B8
(base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

20-A6-CD (hex) Hewlett Packard Enterprise
20A6CD (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

00-DB-70 (hex) Apple, Inc.
00DB70 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B8-63-4D (hex) Apple, Inc.
B8634D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

24-C4-2F (hex) Philips Lifeline
24C42F (base 16) Philips Lifeline
111 Lawrence st
Framingham MA 01702
US

A4-E9-75 (hex) Apple, Inc.
A4E975 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

30-35-AD (hex) Apple, Inc.
3035AD (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

84-41-67 (hex) Apple, Inc.
844167 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

98-00-C6 (hex) Apple, Inc.
9800C6
(base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

AC-1F-74 (hex) Apple, Inc.
AC1F74 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A8-5C-2C (hex) Apple, Inc.
A85C2C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

9C-30-5B (hex) Hon Hai Precision Ind. Co.,Ltd.
9C305B (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

FC-E5-57 (hex) Nokia Corporation
FCE557 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu Ou 90590
FI

48-C5-8D (hex) Lear Corporation GmbH
48C58D (base 16) Lear Corporation GmbH
Industriestrasse 48
Kronach Bavaria 96317
DE

00-28-9F (hex) Semptian Co., Ltd.
00289F (base 16) Semptian Co., Ltd.
Block 5D, 8/F, Software Industry Park, No.14, Haitian 2nd Road, GaoxinSouth, Nanshan District, Shenzhen, China
Shen Zhen GuangDong 518061
CN

10-4E-89
(hex) Garmin International
104E89 (base 16) Garmin International
1200 E. 151st St
Olathe KS 66062
US

20-C6-EB (hex) Panasonic Corporation AVC Networks Company
20C6EB (base 16) Panasonic Corporation AVC Networks Company
1-15 Matsuo-cho
Kadoma Osaka 571-8504

JP

64-B5-C6 (hex) Nintendo Co.,Ltd
64B5C6 (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

28-30-AC (hex) Frontiir Co. Ltd.
2830AC (base 16) Frontiir Co. Ltd.
5 Bayint Naung Road, Hlaing Township
Yangon 11052
MM

D4-D2-E5 (hex) BKAV Corporation
D4D2E5 (base 16) BKAV Corporation
2nd floor - HH1 Building - Yen Hoa Urban Area, Yen Hoa Ward, Cau Giay District
HaNoi 100000
VN

00-50-B5 (hex) FICHET SECURITE ELECTRONIQUE
0050B5 (base 16) FICHET SECURITE ELECTRONIQUE
15-17 AVE. MORANE-SAULNIER

FR

00-14-39 (hex) Blonder Tongue Laboratories, Inc
001439
(base 16) Blonder Tongue Laboratories, Inc
One Jake Brown Road
Old Bridge 08857
US

D8-C4-97 (hex) Quanta Computer Inc.
D8C497 (base 16) Quanta Computer Inc.
No. 211, Wen-Hwa 2nd Rd.,Kuei-Shan Dist.
Taoyuan City Taiwan 33377
TW

74-1C-27 (hex) ITEL MOBILE LIMITED
741C27 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

84-80-2D (hex) Cisco Systems, Inc
84802D (base 16) Cisco Systems, Inc
170 West Tasman Drive

San Jose CA 95134
US

00-18-8D (hex) Nokia Danmark A/S
00188D (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V 1790
DK

00-15-AB (hex) PRO CO SOUND INC
0015AB (base 16) PRO CO SOUND INC
225 PARSONS STREET
KALAMAZOO MICHIGAN 49008
US

58-76-C5 (hex) DIGI I'S LTD
5876C5 (base 16) DIGI I'S LTD
31, Takahata, Maesawa
Oshu Iwate 029-4204
JP

00-86-9C
(hex) Palo Alto Networks
00869C (base 16) Palo Alto Networks
3000 Tannery Way
Santa Clara CA 95054
US

94-D9-B3 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
94D9B3 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

C8-40-29 (hex) Fiberhome Telecommunication Technologies Co.,LTD
C84029 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

F8-6E-EE (hex) HUAWEI TECHNOLOGIES CO.,LTD
F86EEE (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

4C-49-E3 (hex) Xiaomi Communications Co Ltd
4C49E3 (base 16) Xiaomi Communications Co Ltd

The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

28-D4-36 (hex) Jiangsu
dewosi electric co., LTD
28D436 (base 16) Jiangsu dewosi electric co., LTD
Dantu district fengjingchengbang xibanya 503, building 6
Zhenjiang Jiangsu 212028
CN

D4-B2-7A (hex) ARRIS Group, Inc.
D4B27A (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-A0-AC (hex) GILAT SATELLITE NETWORKS, LTD.
00A0AC (base 16) GILAT SATELLITE NETWORKS, LTD.
24A HABARZEL STREET

IL

00-26-09 (hex) Phyllis Co., Ltd.
002609 (base 16) Phyllis Co., Ltd.
9th Fl., Room 3/4, No. 52, Sec. 2, Chung Shan North Road,
Taipei 104
TW

28-F5-37 (hex) IEEE Registration Authority
28F537 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

44-EA-4B (hex) Actlas Inc.
44EA4B (base 16) Actlas Inc.
2-2-32, Asahikawa,
Yokote Akita 013-0033
JP

C4-CB-6B (hex) Airista Flow, Inc.
C4CB6B (base 16) Airista Flow, Inc.
913 Ridgebrook
Road Suite 110
Sparks MD 21152
US

18-80-90 (hex) Cisco Systems, Inc
188090 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

78-D8-00 (hex) IEEE Registration Authority
78D800 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

08-35-B2 (hex) CoreEdge Networks Co., Ltd
0835B2 (base 16) CoreEdge Networks Co., Ltd
#806 G Plus Tower, 123, Digital-ro 26gil, Guro-gu
Seoul 08390
KR

F8-34-41 (hex) Intel Corporate
F83441 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

78-02-B1 (hex) Cisco Systems, Inc
7802B1 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

B4-0F-3B (hex) Tenda Technology Co.,Ltd.Dongguan branch
B40F3B (base 16) Tenda Technology Co.,Ltd.Dongguan branch
Room 79,Yuanyi Road,Dalang Town,Dongguan Guangdong 523770
Dongguan Guangdong 523770
CN

78-62-56
(hex) HUAWEI TECHNOLOGIES CO.,LTD
786256 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B0-55-08 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B05508 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A8-B2-DA (hex) FUJITSU LIMITED
A8B2DA (base 16) FUJITSU LIMITED
403, Kosugi-cho 1-chome, Nakahara-ku
Kawasaki Kanagawa 211-0063
JP

24-58-80 (hex) VIZEO
245880 (base 16) VIZEO
13 rue Emile Decorps
Villeurbanne 69100
FR

54-66-6C (hex) Shenzhen YOUHUA Technology Co., Ltd
54666C (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

A8-96-75 (hex) Motorola Mobility LLC, a Lenovo Company
A89675 (base 16) Motorola Mobility LLC, a Lenovo
Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

8C-9F-3B (hex) Qingdao Hisense Communications Co.,Ltd.
8C9F3B (base 16) Qingdao Hisense Communications Co.,Ltd.
Qianwangang Road 218
Qingdao Shandong 266510
CN

00-14-B8 (hex) Hill-Rom
0014B8 (base 16) Hill-Rom
1125 E. Pearl Street
Batesville IN 47006
US

AC-ED-5C (hex) Intel Corporate
ACED5C (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

58-93-96 (hex) Ruckus Wireless
589396 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089

US

00-1F-41 (hex) Ruckus Wireless
001F41 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

84-20-96 (hex) SHENZHEN RF-LINK TECHNOLOGY CO.,LTD.
842096 (base 16) SHENZHEN RF-LINK TECHNOLOGY CO.,LTD.
Bldg56A,6/F,Baotian Rd3,Xixiang Town,Baoan District,
Shenzhen Guangdong 518000
CN

B4-C1-70 (hex) Yi chip
Microelectronics (Hangzhou) Co., Ltd
B4C170 (base 16) Yi chip Microelectronics (Hangzhou) Co., Ltd
Suite 401, Building #13, No. 498 Guoshoujing Rd., Pudong
Shanghai 201210
CN

B8-75-C0 (hex) PayPal, Inc.
B875C0 (base 16) PayPal, Inc.
2211 North 1st Street
San Jose California 95131
US

00-1C-71 (hex) Emergent Electronics
001C71 (base 16) Emergent Electronics
Bldg 2 Level 3 Suite 305
Sewickley PA 15143
US

00-1A-93 (hex) ERCO Leuchten GmbH
001A93 (base 16) ERCO Leuchten GmbH
Brockhauser Weg 80-82
Lüdenscheid NRW D-58507
DE

94-F6-65 (hex) Ruckus Wireless
94F665 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

B0-90-D4 (hex) Shenzhen Hoin Internet Technology Co., Ltd
B090D4 (base 16) Shenzhen Hoin Internet Technology Co., Ltd
Xusheng Building, No. 4004, Bao’an, Room 1616 Bao’an District

Shenzhen Guangdong 518000
CN

38-9A-F6 (hex) Samsung
Electronics Co.,Ltd
389AF6 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

E0-AA-96 (hex) Samsung Electronics Co.,Ltd
E0AA96 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

50-77-05 (hex) Samsung Electronics Co.,Ltd
507705 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C4-10-8A (hex) Ruckus Wireless
C4108A (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

F0-B0-52 (hex) Ruckus Wireless
F0B052 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

AC-67-06 (hex) Ruckus Wireless
AC6706 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

04-4F-AA (hex) Ruckus Wireless
044FAA (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

08-30-6B (hex) Palo Alto Networks
08306B

(base 16) Palo Alto Networks
3000 Tannery Way
Santa Clara CA 95054
US

38-94-E0 (hex) Syrotech Networks. Ltd.
3894E0 (base 16) Syrotech Networks. Ltd.
UNIT NO.-5 20F, KIN WING INDUSTERIAL BUILDING,33 KIN WING STREET
TUEN MUN 999077
HK

34-F6-4B (hex) Intel Corporate
34F64B (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

50-18-4C (hex) Platina Systems Inc.
50184C (base 16) Platina Systems Inc.
3180 De La Cruz Blvd. Ste# 110
Santa Clara CA 95054
US

F4-B7-B3 (hex) vivo Mobile Communication Co., Ltd.
F4B7B3 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

6C-F9-D2 (hex) CHENGDU POVODO ELECTRONIC TECHNOLOGY CO., LTD
6CF9D2 (base 16) CHENGDU POVODO ELECTRONIC TECHNOLOGY CO., LTD
High - West West West Center Road on the 4th
Chengdu Sichuan 611731
CN

F4-6B-EF (hex) Sagemcom
Broadband SAS
F46BEF (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

A4-F3-E7 (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
A4F3E7 (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

E4-3A-6E (hex) Shenzhen Zeroone Technology CO.,LTD
E43A6E (base 16) Shenzhen Zeroone Technology CO.,LTD
9/F.,Building B Tianan Cyber Park ,North Huangge Road,Longgang District
Shenzhen Guangdong 518000
CN

90-61-AE (hex) Intel Corporate
9061AE (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

10-CD-B6 (hex) Essential Products, Inc.
10CDB6 (base 16) Essential Products, Inc.
380 Portage Avenue
Palo Alto CA 94306
US

30-B6-2D (hex) Mojo Networks, Inc.
30B62D (base 16) Mojo Networks, Inc.
339 N.Bernardo Ave
Mountain View CA 94043
US

70-DF-2F
(hex) Cisco Systems, Inc
70DF2F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

90-EC-50 (hex) C.O.B.O. SPA
90EC50 (base 16) C.O.B.O. SPA
via Tito Speri, 10
Leno Brescia 25024
IT

00-18-AE (hex) TVT CO.,LTD
0018AE (base 16) TVT CO.,LTD
5/F,North Block,CE Lighting House
shenzhen guangdong 518026
CN

88-91-DD (hex) Racktivity
8891DD (base 16) Racktivity
Hertstokweg 5
Ternat Flanders 1741
BE

1C-45-93 (hex) Texas Instruments
1C4593 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

FC-A6-67 (hex) Amazon Technologies Inc.
FCA667 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

6C-60-EB (hex) ZHI YUAN ELECTRONICS CO., LIMITED
6C60EB (base 16) ZHI YUAN ELECTRONICS CO., LIMITED
UNIT 2508A 25/F BANK OF AMERICA TOWER 12 HARCOURT RD CENTRAL
HONGKONG 999077
HK

74-DA-DA
(hex) D-Link International
74DADA (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy, Singapore
Singapore Singapore 609917
SG

00-EC-0A (hex) Xiaomi Communications Co Ltd
00EC0A (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

C8-1F-EA (hex) Avaya Inc
C81FEA (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

60-27-1C (hex) VIDEOR E. Hartig GmbH
60271C (base 16) VIDEOR E. Hartig GmbH
Carl-Zeiss-Straße 8
Rödermark Hessen 63322
DE

D8-F1-F0 (hex) Pepxim International Limited
D8F1F0 (base 16) Pepxim International Limited
A5, 5/F, HK Spinners Industrial Building, Phase 6
Cheung Sha Wan Hong Kong 0

HK

9C-7B-D2 (hex) NEOLAB Convergence
9C7BD2 (base 16) NEOLAB Convergence
4F Yujung bldg.,
Seoul 137-070
KR

2C-41-A1 (hex) Bose
Corporation
2C41A1 (base 16) Bose Corporation
The Mountain
Framingham MA 01701-9168
US

D0-F8-8C (hex) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
D0F88C (base 16) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
No.19, Gaoxin 4th Road, Wuhan East Lake High-tech Zone, Wuhan
Wuhan Hubei 430000
CN

2C-B1-15 (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
2CB115 (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

10-D0-7A (hex) AMPAK Technology, Inc.
10D07A (base 16) AMPAK Technology, Inc.
No.1,Jen Ai Road Hsinchu Industrial Park, Hukou
Hsinchu Taiwan ROC. 30352
TW

00-24-49 (hex) Shen Zhen Lite Star Electronics Technology Co., Ltd
002449 (base 16) Shen Zhen Lite Star Electronics Technology Co., Ltd
Xinghong Science Park,1st Ind.Area,
ShenZhen GuangDong 518102
CN

DC-C8-F5 (hex) Shanghai
UMEinfo CO.,LTD.
DCC8F5 (base 16) Shanghai UMEinfo CO.,LTD.
16/F,Building B ,NO.15 Changyi Road ,Baoshan District,
Shanghai 200441
CN

88-D7-F6 (hex) ASUSTek COMPUTER INC.
88D7F6 (base 16) ASUSTek COMPUTER INC.

15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

04-71-4B (hex) IEEE Registration Authority
04714B (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

C8-D7-B0 (hex) Samsung Electronics Co.,Ltd
C8D7B0 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-E1-8C (hex) Intel Corporate
00E18C (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

90-97-F3 (hex) Samsung Electronics Co.,Ltd
9097F3 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

7C-1C-68 (hex) Samsung Electronics Co.,Ltd
7C1C68 (base 16) Samsung Electronics
Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C0-87-EB (hex) Samsung Electronics Co.,Ltd
C087EB (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

84-79-33 (hex) profichip GmbH
847933 (base 16) profichip GmbH
Einsteinstrasse 6
Herzogenaurach 91074
DE

88-15-44 (hex) Cisco Meraki

881544 (base 16) Cisco Meraki
660 Alabama St
San Francisco CA 94110
US

4C-38-D8 (hex) ARRIS Group, Inc.
4C38D8 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

44-7B-BB (hex) Shenzhen YOUHUA Technology Co., Ltd
447BBB (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

44-B4-12 (hex) SIUS AG
44B412 (base 16) SIUS AG
Im Langhag 1
Effretikon 8307
CH

0C-B9-12 (hex) JM-DATA GmbH
0CB912
(base 16) JM-DATA GmbH
Hackl-Str. 1
Traun Upper Austria 4050
AT

C4-AB-B2 (hex) vivo Mobile Communication Co., Ltd.
C4ABB2 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

DC-08-56 (hex) Alcatel-Lucent Enterprise
DC0856 (base 16) Alcatel-Lucent Enterprise
26801 West Agoura Rd
Calabasas CA 91301
US

F4-3E-61 (hex) SHENZHEN GONGJIN ELECTRONICS CO.,LT
F43E61 (base 16) SHENZHEN GONGJIN ELECTRONICS CO.,LT
2F Baiying Building
Shenzhen Guangdong 518067
CN

B4-41-7A (hex) SHENZHEN GONGJIN ELECTRONICS CO.,LT
B4417A (base 16) SHENZHEN GONGJIN ELECTRONICS CO.,LT
4F,Baiying Building, No.1019,Nanhai RD,Shekou
ShenZhen GuangDong 518067
CN

3C-A3-08 (hex) Texas Instruments
3CA308 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

D4-50-3F (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
D4503F
(base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

38-8C-50 (hex) LG Electronics
388C50 (base 16) LG Electronics
222 LG-ro, JINWI-MYEON
Pyeongtaek-si Gyeonggi-do 451-713
KR

00-D3-18 (hex) SPG Controls
00D318 (base 16) SPG Controls
Blue gates business park Stortford road
Dunmow Essex CM61SN
GB

D0-55-B2 (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
D055B2 (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

14-4F-D7 (hex) IEEE Registration Authority
144FD7 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

B8-55-10 (hex) Zioncom Electronics (Shenzhen) Ltd.
B85510 (base 16) Zioncom Electronics (Shenzhen) Ltd.
A1&A2 Building,Lantian Technology Park, Xinyu Road, Xingqiao Henggang Block, Shajing Street,
Shenzhen

Guangdong 518000
CN

00-11-8B (hex) Alcatel-Lucent Enterprise
00118B (base 16) Alcatel-Lucent Enterprise
26801 West Agoura Road
Calabasas CA 91301
US

00-E0-B1 (hex) Alcatel-Lucent Enterprise
00E0B1 (base 16) Alcatel-Lucent Enterprise
26801 West Agoura Road
Calabasas CA 91301
US

00-E0-DA (hex) Alcatel-Lucent Enterprise
00E0DA (base 16) Alcatel-Lucent Enterprise
26801 West Agoura Road
CALABASAS CA 91301
US

F8-BE-0D (hex) A2UICT Co.,Ltd.
F8BE0D (base 16) A2UICT Co.,Ltd.
1202, OWNER'S TOWER, 28,
Hwangsaeul-ro 200 beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do 13595
KR

00-14-3F (hex) Hotway Technology Corporation
00143F (base 16) Hotway Technology Corporation
3F.-4, No.81, Sec. 1, Xintai 5th Rd.
Xizhi Dist. New Taipei City 22101
TW

E8-C1-D7 (hex) Philips
E8C1D7 (base 16) Philips
TussenDiepen 4
Drachten Friesland 9206 AD
NL

4C-81-20 (hex) Taicang
T&W Electronics
4C8120 (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

28-A6-DB (hex) HUAWEI TECHNOLOGIES CO.,LTD
28A6DB (base 16) HUAWEI TECHNOLOGIES CO.,LTD

No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

14-A0-F8 (hex) HUAWEI TECHNOLOGIES CO.,LTD
14A0F8 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C8-F8-6D (hex) Alcatel-Lucent Shanghai Bell Co., Ltd
C8F86D (base 16) Alcatel-Lucent Shanghai Bell Co., Ltd
No. 389, Ningqiao Road, Pudong Jinqiao
Shanghai 201206
CN

60-45-CB (hex) ASUSTek COMPUTER INC.
6045CB (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

E4-42-A6 (hex) Intel Corporate
E442A6 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

3C-67-8C (hex) HUAWEI
TECHNOLOGIES CO.,LTD
3C678C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

1C-DA-27 (hex) vivo Mobile Communication Co., Ltd.
1CDA27 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

90-F3-05 (hex) HUMAX Co., Ltd.
90F305 (base 16) HUMAX Co., Ltd.
HUMAX Village, 216, Hwangsaeul-ro, Bu
Seongnam-si Gyeonggi-do 463-875
KR

40-95-BD (hex) NTmore.Co.,Ltd

4095BD (base 16) NTmore.Co.,Ltd
38, Heungan-daero 427 beon-gil, Dongan-gu
Anyang Gyeonggi 431-801
KR

98-AA-FC (hex) IEEE Registration Authority
98AAFC (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

F8-FF-0B (hex) Electronic Technology Inc.
F8FF0B (base 16) Electronic Technology Inc.
511 Lyons Ave
Irvington NJ 07111
US

7C-6B-F7 (hex) NTI co.,
ltd.
7C6BF7 (base 16) NTI co., ltd.
5th floor takei building 2-19-6
taito taito-ku , Tokyo 1100016
JP

70-F0-87 (hex) Apple, Inc.
70F087 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

24-5B-A7 (hex) Apple, Inc.
245BA7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D4-7D-FC (hex) TECNO MOBILE LIMITED
D47DFC (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

40-9F-38 (hex) AzureWave Technology Inc.
409F38 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

00-0C-46 (hex) Allied Telesyn Inc.
000C46 (base 16) Allied Telesyn Inc.
960 Stewart Drive, Suite B
Sunnyvale California 94085
US

00-1F-72 (hex) QingDao Hiphone Technology Co,.Ltd
001F72 (base 16) QingDao
Hiphone Technology Co,.Ltd
NO.106,JiangXi Road
QingDao ShanDong 266071
CN

00-23-65 (hex) Insta Elektro GmbH
002365 (base 16) Insta Elektro GmbH
Hohe Steinert 10
Luedenscheid NRW 58509
DE

60-91-F3 (hex) vivo Mobile Communication Co., Ltd.
6091F3 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

28-39-5E (hex) Samsung Electronics Co.,Ltd
28395E (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

38-29-5A (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
38295A (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

CC-82-EB (hex) KYOCERA CORPORATION
CC82EB (base 16) KYOCERA CORPORATION
2-1-1,Kagahara, Tsuzuki-ku,
Yokohama-shi Kanagawa 224-8502
JP

D4-CF-37 (hex) Symbolic IO
D4CF37 (base
16) Symbolic IO
101 Crawfords Corner Rd.

Holmdel NJ 07733
US

04-95-73 (hex) zte corporation
049573 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

F0-D7-AA (hex) Motorola Mobility LLC, a Lenovo Company
F0D7AA (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

40-FA-7F (hex) Preh Car Connect GmbH
40FA7F (base 16) Preh Car Connect GmbH
Gewerbepark 5
Dresden 01156
DE

00-06-31 (hex) Calix Inc.
000631 (base 16) Calix Inc.
2777 Orchard Pkwy
San Jose CA 95131
US

BC-2F-3D (hex) vivo Mobile Communication Co., Ltd.
BC2F3D (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

30-96-FB (hex) Samsung Electronics Co.,Ltd
3096FB (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi
Gyeongbuk 730-350
KR

48-27-EA (hex) Samsung Electronics Co.,Ltd
4827EA (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

7C-78-7E (hex) Samsung Electronics Co.,Ltd
7C787E (base 16) Samsung Electronics Co.,Ltd

#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

E0-51-63 (hex) Arcadyan Corporation
E05163 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

54-E3-F6 (hex) Alcatel-Lucent
54E3F6 (base 16) Alcatel-Lucent
777 East Middlefield Road
Mountain View CA 94043
US

40-B0-34 (hex) Hewlett Packard
40B034 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston TX 77070
US

30-34-D2 (hex) Availink, Inc.
3034D2 (base 16) Availink, Inc.
Scotia Centre P.O. Box 268GT,Grand Cayman, Cayman Islands
Grand Cayman Grand Cayman 999159
KY

88-E6-28 (hex) Shenzhen Kezhonglong Optoelectronic Technology Co.,Ltd
88E628 (base 16) Shenzhen Kezhonglong Optoelectronic Technology Co.,Ltd
Floor 3, Bldg. 5, Area B, Xinfu Industrial Park, Chongqing Rd., Baoan Dist,Shenzhen,Guangdong, China
Shenzhen Guangdong 518103
CN

50-F1-4A (hex) Texas Instruments
50F14A (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

2C-7E-81 (hex) ARRIS Group, Inc.
2C7E81 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

04-DE-F2 (hex) Shenzhen ECOM Technology Co. Ltd

04DEF2 (base 16) Shenzhen ECOM Technology Co. Ltd
Longhua Street Qinghu Community Longhu Junhui Fashion Apartment
Longhua New District, Shenzhen Guangdong 518012
CN

40-7D-0F (hex) HUAWEI TECHNOLOGIES CO.,LTD
407D0F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

68-CC-6E (hex) HUAWEI TECHNOLOGIES CO.,LTD
68CC6E (base 16) HUAWEI TECHNOLOGIES
CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

3C-BD-3E (hex) Beijing Xiaomi Electronics Co., Ltd.
3CBD3E (base 16) Beijing Xiaomi Electronics Co., Ltd.
Building C, QingHe ShunShiJiaYe Technology Park, #66 ZhuFang Rd, HaiDian District
Beijing Beijing 10085
CN

64-1A-22 (hex) Heliospectra AB
641A22 (base 16) Heliospectra AB
Fiskhamnsgatan 2
Gothenburg SE-414 58
SE

B8-16-DB (hex) CHANT SINCERE CO.,LTD
B816DB (base 16) CHANT SINCERE CO.,LTD
7F-2,NO.188,SEC.3,TA TUNG ROAD
XIZHI DISTRICT, NEW TAIPEI CITY TAIWAN,ROC 22103
TW

50-40-61 (hex) Nokia
504061 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

00-10-8E (hex) HUGH SYMONS CONCEPT Technologies Ltd.
00108E (base 16) HUGH SYMONS CONCEPT Technologies Ltd.
Alder Hills Park
Poole, Dorset BM12 4AR
GB

40-B4-CD (hex) Amazon Technologies Inc.
40B4CD (base
16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

F4-2B-48 (hex) Ubiqam
F42B48 (base 16) Ubiqam
15 Gonen
Petah Tiqva 4925915
IL

D4-7A-E2 (hex) Samsung Electronics Co.,Ltd
D47AE2 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

A0-84-CB (hex) SonicSensory,Inc.
A084CB (base 16) SonicSensory,Inc.
1161 Logan St
Los Angeles CA 90026
US

54-03-84 (hex) Hongkong Nano IC Technologies Co., Ltd
540384 (base 16) Hongkong Nano IC Technologies Co., Ltd
Rm. 19C, Lockhart Ctr., 301-307 Lockhart Rd., Wan Chai, Hong Kong
Hong Kong Hong Kong 999077
CN

4C-78-72 (hex) Cav. Uff. Giacomo Cimberio S.p.A.
4C7872 (base 16) Cav. Uff. Giacomo Cimberio S.p.A.
Via Torchio, 57
San Maurizio d'Opaglio (Novara) 28017
IT

00-03-BC (hex) COT GmbH
0003BC (base 16) COT GmbH
Güterstraße 5

DE

8C-F5-A3 (hex) SAMSUNG
ELECTRO-MECHANICS(THAILAND)
8CF5A3 (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T. Bangsamak SEMTHAI, WELLGROW INDUSTRIAL ESTATE
Bangpakong Chachoengsao 24180

TH

8C-C8-F4 (hex) IEEE Registration Authority
8CC8F4 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

F4-83-E1 (hex) Shanghai Clouder Semiconductor Co.,Ltd
F483E1 (base 16) Shanghai Clouder Semiconductor Co.,Ltd
Room515,No.8,Wuzhong Rd,Xuhui District
Shanghai Shanghai 200336
CN

08-3E-5D (hex) Sagemcom Broadband SAS
083E5D (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

70-91-8F (hex) Weber-Stephen Products LLC
70918F (base 16) Weber-Stephen Products LLC
1415 S. Roselle Rd
Palatine IL 60067
US

D8-E0-E1 (hex) Samsung Electronics Co.,Ltd
D8E0E1 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon
Gyeonggi-Do 16677
KR

00-A0-C8 (hex) Adtran Inc
00A0C8 (base 16) Adtran Inc
901 EXPLORER BLVD.
HUNTSVILLE AL 35806-2807
US

68-54-FD (hex) Amazon Technologies Inc.
6854FD (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

78-C1-A7 (hex) zte corporation
78C1A7 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China

shenzhen guangdong 518057
CN

D8-C7-71 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D8C771 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

7C-10-15 (hex) Brilliant Home Technology, Inc.
7C1015 (base 16) Brilliant Home Technology, Inc.
762 Judith Ct
Incline Village NV 89451
US

00-20-4F (hex) DEUTSCHE AEROSPACE AG
00204F (base 16) DEUTSCHE AEROSPACE AG
GESCHAEFTSFELD
BUNDESREPUBLIK DEUTSCHLAND
DE

74-61-4B (hex) Chongqing Huijiatong
Information Technology Co., Ltd.
74614B (base 16) Chongqing Huijiatong Information Technology Co., Ltd.
Yubei District Longxi Street Hongjin Road No. 498, building Jialeziguang No.1 12-12, 12-13, 12-13, 12-14, 12-15
Chongqing Chongqing City 401120
CN

E0-22-02 (hex) ARRIS Group, Inc.
E02202 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

D8-25-B0 (hex) Rockeetech Systems Co.,Ltd.
D825B0 (base 16) Rockeetech Systems Co.,Ltd.
Unit 201, #6 Lane 51, Shuicheng S Rd.
Shanghai 201103
CN

D4-B1-69 (hex) Le Shi Zhi Xin Electronic Technology (Tianjin) Limited
D4B169 (base 16) Le Shi Zhi Xin Electronic Technology (Tianjin) Limited
,Le Shi Building, No.105 Yaojiayuan Road,Chaoyang District,Beijing,China
beijing beijing 100025
CN

E4-47-90 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
E44790 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD

NO.18 HAIBIN ROAD,
DONG
GUAN GUANG DONG 523860
CN

38-45-4C (hex) Light Labs, Inc.
38454C (base 16) Light Labs, Inc.
636 Ramona St.
Palo Alto CA 94301
US

F4-96-51 (hex) NAKAYO Inc
F49651 (base 16) NAKAYO Inc
1-3-2, Soja-machi
Maebashi-shi Gunma 371-0853
JP

44-62-46 (hex) Comat AG
446246 (base 16) Comat AG
Bernstrasse 4
Worb 3076
CH

34-FC-B9 (hex) Hewlett Packard Enterprise
34FCB9 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

CC-B8-A8 (hex) AMPAK Technology, Inc.
CCB8A8 (base 16) AMPAK Technology, Inc.
No.1,Jen Ai Road Hsinchu Industrial Park, Hukou
Hsinchu Taiwan ROC. 30352
TW

34-04-9E (hex) IEEE Registration Authority
34049E (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

94-FB-29 (hex) Zebra Technologies Inc.
94FB29 (base 16) Zebra Technologies Inc.
ONE ZEBRA PLAZA
HOLTSVILLE
NY 11742
US

B0-70-2D (hex) Apple, Inc.
B0702D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

6C-19-C0 (hex) Apple, Inc.
6C19C0 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E0-2A-82 (hex) Universal Global Scientific Industrial Co., Ltd.
E02A82 (base 16) Universal Global Scientific Industrial Co., Ltd.
141, LANE 351,SEC.1, TAIPING RD.
TSAOTUEN, NANTOU 54261
TW

98-D2-93 (hex) Google, Inc.
98D293 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

00-DB-DF (hex) Intel Corporate
00DBDF (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

94-A0-4E (hex) Bostex Technology Co., LTD
94A04E (base 16) Bostex Technology Co., LTD
NO.148 West MinZhou Road
Cixi City Zhejiang Province 315301
CN

B0-F9-63 (hex) Hangzhou H3C Technologies Co., Limited
B0F963 (base 16) Hangzhou H3C Technologies
Co., Limited
466 Changhe Road, Binjiang District
Hangzhou Zhejiang, P.R.China 310052
CN

D4-90-E0 (hex) Topcon Electronics GmbH & Co. KG
D490E0 (base 16) Topcon Electronics GmbH & Co. KG
Industriestraße 7
Geisenheim 65366
DE

A8-40-41 (hex) Dragino Technology Co., Limited
A84041 (base 16) Dragino Technology Co., Limited
303, Block B, No 8; 349, Jian'An 1 Road,Bao'An
Shenzhen GuangDong 518101
CN

80-D4-A5 (hex) HUAWEI TECHNOLOGIES CO.,LTD
80D4A5 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

04-B0-E7 (hex) HUAWEI TECHNOLOGIES CO.,LTD
04B0E7 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

44-6A-2E (hex) HUAWEI TECHNOLOGIES CO.,LTD
446A2E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology
Park
Dongguan 523808
CN

A0-6F-AA (hex) LG Innotek
A06FAA (base 16) LG Innotek
26, Hanamsandan 5beon-ro
Gwangju Gwangsan-gu 506-731
KR

00-26-AB (hex) Seiko Epson Corporation
0026AB (base 16) Seiko Epson Corporation
3-3-5 OWA
SUWA-SHI NAGANO-KEN 392-8502
JP

00-08-94 (hex) InnoVISION Multimedia Ltd.
000894 (base 16) InnoVISION Multimedia Ltd.
Rm 608, 6/F Tins Enterprises Centre,
Kowloon,
HK

8C-E1-17 (hex) zte corporation
8CE117 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057

CN

68-8A-F0 (hex) zte corporation
688AF0 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

C0-21-0D (hex) SHENZHEN RF-LINK TECHNOLOGY CO.,LTD.
C0210D (base 16) SHENZHEN RF-LINK TECHNOLOGY CO.,LTD.
Bldg56A,6/F,Baotian Rd3,Xixiang Town,Baoan District,
Shenzhen
Guangdong 518000
CN

4C-E2-F1 (hex) Udino srl
4CE2F1 (base 16) Udino srl
Via Amedeo Avogadro 24
Torino 10121
IT

10-77-B0 (hex) Fiberhome Telecommunication Technologies Co.,LTD
1077B0 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

F0-1D-BC (hex) Microsoft Corporation
F01DBC (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

B0-EE-7B (hex) Roku, Inc
B0EE7B (base 16) Roku, Inc
1155 Coleman Ave
San Jose CA 95110
US

50-4B-5B (hex) CONTROLtronic GmbH
504B5B (base 16) CONTROLtronic GmbH
Schragenhofstr. 35
Munich 80992
DE

B4-74-47 (hex) CoreOS
B47447 (base 16) CoreOS
PO Box 7775 #55097

San Francisco CA 94120-7775
US

AC-58-7B (hex) JCT Healthcare
AC587B (base 16) JCT Healthcare
1/25 London Road
Mile End South South Australia 5031
AU

10-62-EB (hex) D-Link
International
1062EB (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy, Singapore
Singapore Singapore 609917
SG

FC-10-C6 (hex) Taicang T&W Electronics
FC10C6 (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

00-0B-4F (hex) Verifone
000B4F (base 16) Verifone
2099 Gateway Place
San Jose 95110
US

60-C7-98 (hex) Verifone
60C798 (base 16) Verifone
2455 Augustine Drive
Santa Clara California 95054

C8-66-2C (hex) Beijing Haitai Fangyuan High Technology Co,.Ltd.
C8662C (base 16) Beijing Haitai Fangyuan High Technology Co,.Ltd.
B1st&2nd floor,Unit ENO.9 Building,Zhongguancun Software Park,Dongbeiwang West Road 8.Haidian District,Beijing
Bei Jing 100094
CN

D0-58-A8 (hex) zte corporation
D058A8 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

D0-71-C4

(hex) zte corporation
D071C4 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

B4-B3-84 (hex) ShenZhen Figigantic Electronic Co.,Ltd
B4B384 (base 16) ShenZhen Figigantic Electronic Co.,Ltd
5F NO.1 Bld East,Guole Industrial Zone,Lirong Road,Longhua New
ShenZhen GuangDong 518109
CN

2C-6F-C9 (hex) Hon Hai Precision Ind. Co.,Ltd.
2C6FC9 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

80-96-CA (hex) Hon Hai Precision Ind. Co.,Ltd.
8096CA (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

18-65-71 (hex) Top Victory Electronics (Taiwan) Co., Ltd.
186571 (base 16) Top Victory Electronics (Taiwan) Co., Ltd.
14F,No.166,Jian 1st Rd
New Taipei City Taiwan 23511
TW

F8-3F-51 (hex) Samsung Electronics
Co.,Ltd
F83F51 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

50-D7-53 (hex) CONELCOM GmbH
50D753 (base 16) CONELCOM GmbH
Trientlgasse 18c
Innsbruck 6020
AT

0C-C4-7A (hex) Super Micro Computer, Inc.
0CC47A (base 16) Super Micro Computer, Inc.
980 Rock Avenue
San Jose California 95131
US

34-D2-70 (hex) Amazon Technologies Inc.
34D270 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

78-28-CA (hex) Sonos, Inc.
7828CA (base 16) Sonos, Inc.
614 Chapala St
Santa Barbara CA 93101
US

A0-CC-2B (hex) Murata Manufacturing Co., Ltd.
A0CC2B (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

00-23-D2 (hex) Inhand Electronics, Inc.
0023D2 (base 16) Inhand Electronics, Inc.
30 West Gude Drive
Rockville Maryland 20850
US

00-27-1C (hex) MERCURY
CORPORATION
00271C (base 16) MERCURY CORPORATION
90, Gajaeul-ro, Seo-gu
INCHEON 22830
KR

E0-D9-E3 (hex) Eltex Enterprise Ltd.
E0D9E3 (base 16) Eltex Enterprise Ltd.
Okruzhnaya st. 29v
Novosibirsk 630020
RU

6C-A7-FA (hex) YOUNGBO ENGINEERING INC.
6CA7FA (base 16) YOUNGBO ENGINEERING INC.
132, Haewian-gil, Dunpo-myeon
Asan-si Chungcheongnam-do 336-873
KR

8C-7E-B3 (hex) Lytro, Inc.
8C7EB3 (base 16) Lytro, Inc.
1300 Terra Bella Avenue
Mountain View California 94043

US

80-5E-C0 (hex) YEALINK(XIAMEN) NETWORK TECHNOLOGY CO.,LTD.
805EC0 (base 16) YEALINK(XIAMEN) NETWORK TECHNOLOGY CO.,LTD.
309, 3th Floor, No.16, Yun Ding North Road, Huli District
xiamen Fujian 361015
CN

00-C0-03 (hex) GLOBALNET COMMUNICATIONS
00C003 (base 16) GLOBALNET COMMUNICATIONS
912, PLACE TRANS CANADA
CANADA J4G 2M1
CA

00-23-4A (hex) Private
00234A (base 16) Private

1C-40-E8
(hex) SHENZHEN PROGRESS&WIN TECHNOLOGY CO.,LTD
1C40E8 (base 16) SHENZHEN PROGRESS&WIN TECHNOLOGY CO.,LTD
9F, K1 Mall, Xinsha street, Shajing District, Baoan
Shenzhen Guangdong 518000
CN

2C-40-2B (hex) Smart iBlue Technology Limited
2C402B (base 16) Smart iBlue Technology Limited
Unit 12, 10/F., Hong Man Industrial Centre,2 Hong Man Street, Chai Wan, Hong Kong
Hong Kong 000
HK

5C-6B-4F (hex) Hello Inc.
5C6B4F (base 16) Hello Inc.
438 Shotwell Street
San Francisco CA 94110
US

50-79-5B (hex) Interexport Telecomunicaciones S.A.
50795B (base 16) Interexport Telecomunicaciones S.A.
Cerro Colorado 5240 piso 14
Santiago Region Metropolitana 8320000
US

00-16-D9 (hex) NINGBO BIRD CO.,LTD.
0016D9 (base 16) NINGBO BIRD CO.,LTD.
No.999 Dacheng East Road
Fenghua Zhejiang 315500
CN

50-01-D9 (hex) HUAWEI TECHNOLOGIES CO.,LTD
5001D9 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2
Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

2C-99-24 (hex) ARRIS Group, Inc.
2C9924 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

A8-E7-05 (hex) Fiberhome Telecommunication Technologies Co.,LTD
A8E705 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

60-A4-D0 (hex) Samsung Electronics Co.,Ltd
60A4D0 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-7B-18 (hex) SENTRY Co., LTD.
007B18 (base 16) SENTRY Co., LTD.
792,Pyeongcheon-ro,Wonmi-gu
Bucheon-si, Gyeonggi-do 420-805
KR

14-4D-67 (hex) Zioncom Electronics (Shenzhen) Ltd.
144D67 (base 16) Zioncom Electronics (Shenzhen) Ltd.
A1&A2 Building,Lantian Technology Park, Xinyu Road, Xingqiao Henggang Block, Shajing Street, Baoan District
Shenzhen Guangdong 518000
CN

4C-E1-73
(hex) IEEE Registration Authority
4CE173 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

0C-D8-6C (hex) SHENZHEN FAST TECHNOLOGIES CO.,LTD
0CD86C (base 16) SHENZHEN FAST TECHNOLOGIES CO.,LTD
Room 202,Building No.5,Section 30,No.2 of Kefa Road,Nanshan District,Shenzhen,P.R.China
Shenzhen Guangdong 518057

CN

88-6B-0F (hex) Bluegiga Technologies OY
886B0F (base 16) Bluegiga Technologies OY
P.O. BOX 120
FIN-02631 Espoo
FI

AC-84-C9 (hex) Sagemcom Broadband SAS
AC84C9 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

9C-62-AB (hex) Sumavision Technologies Co.,Ltd
9C62AB (base 16) Sumavision Technologies Co.,Ltd
6F, Block A2, Power Creative Building,No.1 Shangdi East Road, Haidian District
Beijing 100085
CN

18-8B-15 (hex) ShenZhen ZhongRuiJing Technology co.,LTD
188B15 (base 16) ShenZhen
ZhongRuiJing Technology co.,LTD
4th Floor,Building 3,Meng Liyuan Industrial Park, Yousong Road, Longhua New District,Shenzhen,Guangdong Province,China
Shenzhen Guangdong 518109
CN

04-97-90 (hex) Lartech telecom LLC
049790 (base 16) Lartech telecom LLC
Bolshoi Sampsonievski 68, lit. N, office 237
Saint-Petersburg 194100
RU

28-EE-D3 (hex) Shenzhen Super D Technology Co., Ltd
28EED3 (base 16) Shenzhen Super D Technology Co., Ltd
Room 201 , Building A former Qianhai Shenzhen-Hong Kong cooperation zone Shenzhen Bay all the way to No. 1 (settled in Shenzhen Qianhai Business Secretary , Ltd.)
Shenzhen Guangdong 518000
CN

24-C4-4A (hex) zte corporation
24C44A (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

98-54-1B (hex) Intel Corporate

98541B (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-60-D6
(hex) NovAtel Inc.
0060D6 (base 16) NovAtel Inc.
SUITE 200, 6715-8TH STREET NE
CALGARY, ALBERTA T2E 8M4 0000
CA

DC-0B-34 (hex) LG Electronics (Mobile Communications)
DC0B34 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

B0-95-8E (hex) TP-LINK TECHNOLOGIES CO.,LTD.
B0958E (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

C0-25-E9 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
C025E9 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

40-4E-36 (hex) HTC Corporation
404E36 (base 16) HTC Corporation
No. 23, Xinghua Rd., Taoyuan City
Taoyuan County Taiwan 330
TW

2C-33-61 (hex) Apple, Inc.
2C3361
(base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C8-F9-46 (hex) LOCOSYS Technology Inc.
C8F946 (base 16) LOCOSYS Technology Inc.
20F.-13, No. 79, Sec. 1, Xintai 5th Rd, Xizhi Dist.
New Taipei City Taiwan 22101
TW

00-13-7E (hex) CorEdge Networks, Inc.
00137E (base 16) CorEdge Networks, Inc.
7600 Boone Ave N
Brooklyn Park MN 55428
US

D8-14-D6 (hex) SURE SYSTEM Co Ltd
D814D6 (base 16) SURE SYSTEM Co Ltd
Bakurou-machi 4-7-5
Cyuou-ku Osaka 541-0059
JP

6C-EF-C6 (hex) SHENZHEN TWOWING TECHNOLOGIES CO.,LTD.
6CEFC6 (base 16) SHENZHEN TWOWING TECHNOLOGIES CO.,LTD.
Nangang Industrial Building, Tangtou Industrial Park, Shiyan, Baoan
Shenzhen Guangdong 518108
CN

10-1D-C0 (hex) Samsung Electronics Co.,Ltd
101DC0 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-87-01 (hex) Samsung Electronics Co.,Ltd
008701 (base 16) Samsung
Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

5C-99-60 (hex) Samsung Electronics Co.,Ltd
5C9960 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

24-5C-BF (hex) NCSE
245CBF (base 16) NCSE
Future of China Electronics Science & Technology
Beijing Changping District 102200
CN

48-7B-6B (hex) HUAWEI TECHNOLOGIES CO.,LTD
487B6B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808

CN

88-3F-D3 (hex) HUAWEI TECHNOLOGIES CO.,LTD
883FD3 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

5C-A9-33 (hex) Luma Home
5CA933 (base 16) Luma Home
75 5th St
Atlanta GA 30308
US

C8-02-8F (hex) Nova Electronics (Shanghai) Co., Ltd.
C8028F (base 16) Nova Electronics (Shanghai) Co., Ltd.
Room
B706, 7th Floor, MET Plaza, No.268 Tongxie Road
Shanghai Changning District 200335
CN

00-0B-14 (hex) ViewSonic Corporation
000B14 (base 16) ViewSonic Corporation
381 Brea Canyon Road
Walnut California 91789
US

A4-60-11 (hex) Verifone
A46011 (base 16) Verifone
2099 Gateway Place
San Jose CA 95110
US

24-0D-65 (hex) Shenzhen Vsun Communication Technology Co., Ltd.
240D65 (base 16) Shenzhen Vsun Communication Technology Co., Ltd.
3/F., 19 Block, Wisdomland Business Park, No.2 Nantou Gateway Road, Nanshan District
Shenzhen Guangdong 518000
CN

00-23-41 (hex) Vanderbilt International (SWE) AB
002341 (base 16) Vanderbilt International (SWE) AB
Englundavaegen 7
Solna SE-171 41
SE

40-7C-7D (hex) Nokia
407C7D (base 16) Nokia
600 March Road

Kanata Ontario K2K 2E6
CA

24-59-0B (hex) White Sky Inc. Limited
24590B (base 16) White Sky Inc. Limited
Floor 5,
Building 1, No. 6, Lane 365, Xinhua Road
Shanghai 200052
CN

14-33-65 (hex) TEM Mobile Limited
143365 (base 16) TEM Mobile Limited
RM1703, North Block, Cangsong Building, Tairan 6 road, Futian District, Shenzhen.
Shenzhen Guangdong 518000
CN

78-47-1D (hex) Samsung Electronics Co.,Ltd
78471D (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A0-75-91 (hex) Samsung Electronics Co.,Ltd
A07591 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

0C-DF-A4 (hex) Samsung Electronics Co.,Ltd
0CDFA4 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

68-EB-AE (hex) Samsung Electronics Co.,Ltd
68EBAE (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

44-4E-1A (hex) Samsung Electronics Co.,Ltd
444E1A (base 16) Samsung Electronics Co.,Ltd
#94-1,
Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D8-EC-5E (hex) Belkin International Inc.

D8EC5E (base 16) Belkin International Inc.
12045 East Waterfront Drive
Playa Vista null 90094
US

E8-9F-80 (hex) Belkin International Inc.
E89F80 (base 16) Belkin International Inc.
12045 East Waterfront Drive
Playa Vista null 90094
US

00-50-CB (hex) Bucher Automation AG
0050CB (base 16) Bucher Automation AG
GRAETERSTRASSE 2
Ludwigsburg 71642
DE

B0-72-BF (hex) Murata Manufacturing Co., Ltd.
B072BF (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

6C-DE-A9 (hex) Cisco Meraki
6CDEA9 (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco null 94158
US

A8-46-9D (hex) Cisco Meraki
A8469D (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco null 94158
US

58-EF-68 (hex) Belkin International Inc.
58EF68
(base 16) Belkin International Inc.
12045 East Waterfront Drive
Playa Vista null 90094
US

CC-03-D9 (hex) Cisco Meraki
CC03D9 (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco null 94158
US

0C-8D-DB (hex) Cisco Meraki
0C8DDB (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco null 94158
US

70-1D-C4 (hex) NorthStar Battery Company, LLC
701DC4 (base 16) NorthStar Battery Company, LLC
4000 Continental Way
Springfield MO 65803
US

5C-86-13 (hex) Beijing Zhoenet Technology Co., Ltd
5C8613 (base 16) Beijing Zhoenet Technology Co., Ltd
Room B16,No. 8 WenHua East Road,Changping District
Beijing Beijing 102208
CN

CC-73-14 (hex) HONG KONG WHEATEK TECHNOLOGY LIMITED
CC7314 (base 16) HONG KONG WHEATEK TECHNOLOGY LIMITED
Building 20No.2277, ZuChongZhi Road, PuDong District, Shanghai
shanghai 201203
CN

B8-EE-65 (hex) Liteon Technology
Corporation
B8EE65 (base 16) Liteon Technology Corporation
4F,90,Chien 1 Road,ChungHo,Taipei Hsien,Taiwan,
TaiPei TaiWan 23585
TW

98-5B-B0 (hex) KMDATA INC.
985BB0 (base 16) KMDATA INC.
505-2, Daeryung Techno Town 1cha, 18, Gasan Digital 2-ro, Geumcheon-gu
Seoul 153771
KR

00-11-FF (hex) Digitro Tecnologia Ltda
0011FF (base 16) Digitro Tecnologia Ltda
Rua: Professora Sofia Quint de Souza, 167
Florianópolis Santa Catarina 88085-040
BR

14-B8-37 (hex) Shenzhen YOUHUA Technology Co., Ltd
14B837 (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

5C-A3-9D (hex) SAMSUNG ELECTRO MECHANICS CO., LTD.
5CA39D (base 16) SAMSUNG ELECTRO MECHANICS CO., LTD.
314, Maetan3-Dong, Yeongtong-Gu
Suwon 443-743
US

90-18-7C (hex) SAMSUNG ELECTRO MECHANICS CO., LTD.
90187C (base
16) SAMSUNG ELECTRO MECHANICS CO., LTD.
314, Maetan3-Dong, Yeongtong-Gu
Suwon KYUNGGI-DO 443-743
KR

A4-17-31 (hex) Hon Hai Precision Ind. Co.,Ltd.
A41731 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

E0-06-E6 (hex) Hon Hai Precision Ind. Co.,Ltd.
E006E6 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

BC-85-56 (hex) Hon Hai Precision Ind. Co.,Ltd.
BC8556 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

34-23-87 (hex) Hon Hai Precision Ind. Co.,Ltd.
342387 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

64-DA-A0 (hex) Robert Bosch Smart Home GmbH
64DAA0 (base 16) Robert Bosch Smart Home GmbH
Schockenriedstraße 17
Stuttgart
70565
DE

E4-7C-F9 (hex) Samsung Electronics Co.,Ltd
E47CF9 (base 16) Samsung Electronics Co.,Ltd
416, Maetan-3dong, Yeongtong-gu

Suwon Gyeonggi-do 443742
KR

48-44-F7 (hex) Samsung Electronics Co.,Ltd
4844F7 (base 16) Samsung Electronics Co.,Ltd
416, Maetan-3dong, Yeongtong-gu
Suwon Gyeonggi-do 443742
KR

00-13-77 (hex) Samsung Electronics Co.,Ltd
001377 (base 16) Samsung Electronics Co.,Ltd
416, Maetan 3Dong, Yeongtong-Gu
Suwon Geyonggi 443742
KR

00-24-54 (hex) Samsung Electronics Co.,Ltd
002454 (base 16) Samsung Electronics Co.,Ltd
416, Maetan 3Dong, Yeongtong-Gu
Suwon Geyonggi 443742
KR

E8-11-32 (hex) Samsung Electronics Co.,Ltd
E81132 (base 16) Samsung Electronics Co.,Ltd
416, Maetan 3Dong, Yeongtong-Gu
Suwon Geyonggi 443742
KR

50-B7-C3 (hex) Samsung Electronics Co.,Ltd
50B7C3 (base 16) Samsung Electronics Co.,Ltd
416, Maetan 3Dong, Yeongtong-Gu
Suwon
Geyonggi 443742
KR

1C-5A-3E (hex) Samsung Electronics Co.,Ltd
1C5A3E (base 16) Samsung Electronics Co.,Ltd
416, Maetan 3dong, Yeongtong-Gu
Suwon 443742
US

A0-21-95 (hex) Samsung Electronics Co.,Ltd
A02195 (base 16) Samsung Electronics Co.,Ltd
#416, Maetan 3-dong
Suwon-si Gyeonggi-do 443-742
KR

50-CC-F8 (hex) SAMSUNG ELECTRO MECHANICS CO., LTD.
50CCF8 (base 16) SAMSUNG ELECTRO MECHANICS CO., LTD.

Metan Dong 314, Youngtong Gu
Suwon Kyung-gi Do. 443-743
KR

00-26-37 (hex) SAMSUNG ELECTRO MECHANICS CO., LTD.
002637 (base 16) SAMSUNG ELECTRO MECHANICS CO., LTD.
314, Metan dong
Suwon Kyung-ki do 443-743
KR

00-21-19 (hex) SAMSUNG ELECTRO MECHANICS CO., LTD.
002119 (base 16) SAMSUNG ELECTRO MECHANICS CO., LTD.
314, Metan 3 dong
Suwon Kyung-gi do 443-743
KR

F4-D9-FB (hex) Samsung Electronics Co.,Ltd
F4D9FB (base 16) Samsung Electronics Co.,Ltd
416, Maetan-3dong,
Yeongtong-gu,
Suwon Gyeonggi-do 443-742
KR

3C-62-00 (hex) Samsung Electronics Co.,Ltd
3C6200 (base 16) Samsung Electronics Co.,Ltd
416, Maetan-3dong, Yeongtong-gu,
Suwon-City Gyeonggi-do 443-742
KR

F0-7B-CB (hex) Hon Hai Precision Ind. Co.,Ltd.
F07BCB (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

C4-17-FE (hex) Hon Hai Precision Ind. Co.,Ltd.
C417FE (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

94-39-E5 (hex) Hon Hai Precision Ind. Co.,Ltd.
9439E5 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

64-27-37 (hex) Hon Hai Precision Ind. Co.,Ltd.

642737 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

C0-F8-DA
(hex) Hon Hai Precision Ind. Co.,Ltd.
C0F8DA (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

F0-F0-02 (hex) Hon Hai Precision Ind. Co.,Ltd.
F0F002 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

C0-CB-38 (hex) Hon Hai Precision Ind. Co.,Ltd.
C0CB38 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

00-1B-94 (hex) T.E.M.A. S.p.A.
001B94 (base 16) T.E.M.A. S.p.A.
via della Scienza 21 A/C
Castelnuovo Rangone Modena 41051
IT

00-22-3B (hex) Communication Networks, LLC
00223B (base 16) Communication Networks, LLC
3 Corporate Drive
Danbury CT 06810
US

10-D5-42 (hex) Samsung Electronics Co.,Ltd
10D542 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A0-82-1F
(hex) Samsung Electronics Co.,Ltd
A0821F (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F0-6B-CA (hex) Samsung Electronics Co.,Ltd
F06BCA (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

AC-36-13 (hex) Samsung Electronics Co.,Ltd
AC3613 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

BC-8C-CD (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
BC8CCD (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T. Bangsamak
Bangpakong 24180
US

D0-22-BE (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
D022BE (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T. Bangsamak
Bangpakong 24180
US

EC-9B-F3 (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
EC9BF3 (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T. Bangsamak
Bangpakong Chachoengsao 24180
TH

F4-09-D8 (hex) SAMSUNG
ELECTRO-MECHANICS(THAILAND)
F409D8 (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T. Bangsamak
Bangpakong Chachoengsao 24180
TH

18-D2-76 (hex) HUAWEI TECHNOLOGIES CO.,LTD
18D276 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

4C-3C-16 (hex) Samsung Electronics Co.,Ltd
4C3C16 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350

KR

00-73-E0 (hex) Samsung Electronics Co.,Ltd
0073E0 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

34-31-11 (hex) Samsung Electronics Co.,Ltd
343111 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

08-FD-0E (hex) Samsung Electronics Co.,Ltd
08FD0E (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

04-1B-BA (hex) Samsung Electronics Co.,Ltd
041BBA
(base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

88-9B-39 (hex) Samsung Electronics Co.,Ltd
889B39 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

E4-32-CB (hex) Samsung Electronics Co.,Ltd
E432CB (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B0-78-70 (hex) Wi-NEXT, Inc.
B07870 (base 16) Wi-NEXT, Inc.
530 Lytton Avenue
Palo Alto CA 94301
US

00-17-D5 (hex) Samsung Electronics Co.,Ltd
0017D5 (base 16) Samsung Electronics Co.,Ltd
#94-1

Gumi-City Gyeong-Buk 730-350
KR

00-1E-7D (hex) Samsung Electronics Co.,Ltd
001E7D (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-1D-F6 (hex) Samsung Electronics Co.,Ltd
001DF6 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

94-35-0A
(hex) Samsung Electronics Co.,Ltd
94350A (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C0-65-99 (hex) Samsung Electronics Co.,Ltd
C06599 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

BC-79-AD (hex) Samsung Electronics Co.,Ltd
BC79AD (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F0-E7-7E (hex) Samsung Electronics Co.,Ltd
F0E77E (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F0-08-F1 (hex) Samsung Electronics Co.,Ltd
F008F1 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

58-C3-8B (hex) Samsung Electronics Co.,Ltd
58C38B (base 16) Samsung Electronics Co.,Ltd

#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F0-03-8C (hex) AzureWave Technology Inc.
F0038C (base 16) AzureWave
Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

00-E3-B2 (hex) Samsung Electronics Co.,Ltd
00E3B2 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

30-19-66 (hex) Samsung Electronics Co.,Ltd
301966 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-1D-25 (hex) Samsung Electronics Co.,Ltd
001D25 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B0-F8-93 (hex) Shanghai MXCHIP Information Technology Co., Ltd.
B0F893 (base 16) Shanghai MXCHIP Information Technology Co., Ltd.
9th Floor, No. 5 Building, 2145 Jinshajiang Rd., Putuo District
Shanghai 200333
CN

00-1E-81 (hex) CNB Technology Inc.
001E81 (base 16) CNB Technology Inc.
#701 Star Valley, 60-11 Gasan-Dong,
Seoul 153777
KR

7C-A9-7D (hex) Objenious
7CA97D (base 16) Objenious
20
rue de Troyon
SEVRES 92310
FR

A8-A6-48 (hex) Qingdao Hisense Communications Co.,Ltd.
A8A648 (base 16) Qingdao Hisense Communications Co.,Ltd.
Jiangxi Road
Qingdao Shandong 266071
CN

84-EF-18 (hex) Intel Corporate
84EF18 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

A8-1B-6A (hex) Texas Instruments
A81B6A (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

98-5D-AD (hex) Texas Instruments
985DAD (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

D4-36-39 (hex) Texas Instruments
D43639 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

BC-28-2C (hex) e-Smart Systems Pvt. Ltd
BC282C (base 16) e-Smart Systems Pvt. Ltd
483 FIE, , Patparganj Industrial Area
Delhi Delhi 110092
IN

E4-C1-F1 (hex) SHENZHEN SPOTMAU INFORMATION TECHNOLIGY CO., Ltd
E4C1F1 (base 16) SHENZHEN SPOTMAU
INFORMATION TECHNOLIGY CO., Ltd
10F, Block D, 5th Building, Shenzhen Software Industrial Base, Haitian 2nd Rd,Nanshan District
Shenzhen Guangdong 518057
CN

24-0A-C4 (hex) Espressif Inc.
240AC4 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

00-52-18 (hex) Wuxi Keboda Electron Co.Ltd
005218 (base 16) Wuxi Keboda Electron Co.Ltd
No.155 Chunhui Road, Xishan District,
Wuxi Jiangsu 214101
CN

00-50-94 (hex) ARRIS Group, Inc.
005094 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

E0-B7-B1 (hex) ARRIS Group, Inc.
E0B7B1 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

D8-25-22 (hex) ARRIS Group, Inc.
D82522 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

28-C8-7A (hex) ARRIS Group, Inc.
28C87A (base 16) ARRIS Group, Inc.
6450 Sequence
Drive
San Diego CA 92121
US

C4-11-E0 (hex) Bull Group Co., Ltd
C411E0 (base 16) Bull Group Co., Ltd
No.32 Sanhai Road,East Guanhaiwei Industrial Zone, Cixi City, Zhejiang, P.R.China
Cixi Zhejiang 315314
CN

34-3D-C4 (hex) BUFFALO.INC
343DC4 (base 16) BUFFALO.INC
AKAMONDORI Bld.,30-20,Ohsu 3-chome,Naka-ku
Nagoya Aichi Pref. 460-8315
JP

00-26-11 (hex) Licera AB
002611 (base 16) Licera AB
Teknikringen 1C
Linköping 58330

SE

48-FD-8E (hex) HUAWEI TECHNOLOGIES CO.,LTD
48FD8E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

7C-06-23 (hex) Ultra Electronics Sonar System Division
7C0623 (base 16) Ultra Electronics Sonar System Division
419 Bridport Road
Greenford Middlesex UB6 8UA
GB

00-12-6C (hex) Visonic Technologies 1993 Ltd.
00126C (base 16) Visonic Technologies 1993 Ltd.
24 Habarzel
St.
Tel Aviv 69710
IL

A4-0D-BC (hex) Xiamen Intretech Inc.
A40DBC (base 16) Xiamen Intretech Inc.
FL 7 NO 588 JIAHE RD TORCH CARDEN HIGH-TECH ZONE
Xiamen FUJIAN 361006
CN

64-12-69 (hex) ARRIS Group, Inc.
641269 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-02-C9 (hex) Mellanox Technologies, Inc.
0002C9 (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway, Suite 100
Sunnyvale CA 94085
US

28-AC-67 (hex) Mach Power, Rappresentanze Internazionali s.r.l.
28AC67 (base 16) Mach Power, Rappresentanze Internazionali s.r.l.
CUPA S.ANIELLO, 112
NAPOLI Napoli 80146
IT

00-80-C7 (hex) XIRCOM
0080C7 (base 16) XIRCOM
26025 MUREAU ROAD

CALABASAS CA 91302
US

00-01-38 (hex) XAVi Technologies Corp.
000138 (base 16) XAVi Technologies Corp.
9F, No. 129, Hsing Te Rd,
241 TAIWAN 241 TAIWAN R.O.C.
TW

00-16-6D (hex) Yulong
Computer Telecommunication Scientific (Shenzhen) Co.,Ltd
00166D (base 16) Yulong Computer Telecommunication Scientific (Shenzhen) Co.,Ltd
8/F.high Tech Plaza,TianAn Cyberpark,Chegongmiao
Shenzhen Guangdong 518040
CN

3C-91-57 (hex) Yulong Computer Telecommunication Scientific (Shenzhen) Co.,Ltd
3C9157 (base 16) Yulong Computer Telecommunication Scientific (Shenzhen) Co.,Ltd
5F Building 2,No.56,Liuhe Road,Xihu District
Hangzhou Zhejiang 310023
CN

14-82-5B (hex) Hefei Radio Communication Technology Co., Ltd
14825B (base 16) Hefei Radio Communication Technology Co., Ltd
No.108, YinXing Road, High-tech Development Zone, Hefei, Anhui Province, China
Hefei Anhui Province 230088
CN

AC-61-75 (hex) HUAWEI TECHNOLOGIES CO.,LTD
AC6175 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

24-44-27 (hex) HUAWEI TECHNOLOGIES CO.,LTD
244427 (base
16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-00-D8 (hex) Novell, Inc.
0000D8 (base 16) Novell, Inc.
122 EAST 1700 SOUTH M/S:E-12-1
PROVO UT 84601
US

00-1F-46 (hex) Nortel Networks

001F46 (base 16) Nortel Networks
2221 Lakeside Blvd
Richardson 75082
US

00-30-93 (hex) Sonnet Technologies, Inc
003093 (base 16) Sonnet Technologies, Inc
8 Autry
Irvine, CA 92618
US

00-03-4B (hex) Nortel Networks
00034B (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

08-00-51 (hex) ExperData
080051 (base 16) ExperData
88, RUE BRILLAT SAVARIN
0000 0000
FR

00-25-61 (hex) ProCurve Networking by HP
002561 (base 16) ProCurve Networking by HP
60 Alexandra Terrace
0000 118502
SG

00-80-58 (hex) PRINTER SYSTEMS CORP.
008058 (base 16) PRINTER SYSTEMS CORP.
207 PARRY
PARKWAY
GAITHERSBURG MD 20877
US

00-15-7D (hex) POSDATA
00157D (base 16) POSDATA
276-2,Seohyeon-dong,Bundang-gu,
Seongnam-City Kyeonggi-Do 463-775
KR

48-49-C7 (hex) Samsung Electronics Co.,Ltd
4849C7 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

84-98-66 (hex) Samsung Electronics Co.,Ltd
849866 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-1B-25 (hex) Nortel Networks
001B25 (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-19-E1 (hex) Nortel Networks
0019E1 (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-1D-42 (hex) Nortel Networks
001D42 (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-0E-40 (hex) Nortel Networks
000E40 (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-1C-9C
(hex) Nortel Networks
001C9C (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

18-80-F5 (hex) Alcatel-Lucent Shanghai Bell Co., Ltd
1880F5 (base 16) Alcatel-Lucent Shanghai Bell Co., Ltd
No. 389, Ningqiao Road, Pudong Jinqiao
Shanghai 201206
CN

00-14-0D (hex) Nortel Networks
00140D (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

10-E8-78 (hex) Nokia
10E878 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

FC-B0-C4 (hex) Shanghai DareGlobal Technologies Co.,Ltd
FCB0C4 (base 16) Shanghai DareGlobal Technologies Co.,Ltd
22F Info-Tech Building
Shanghai Shanghai 200092
CN

A8-9D-D2 (hex) Shanghai DareGlobal Technologies Co.,Ltd
A89DD2 (base 16) Shanghai DareGlobal Technologies Co.,Ltd
22F Info-Tech Building
Shanghai Shanghai 200092
CN

00-E0-0F (hex) Shanghai Baud Data Communication Co.,Ltd.
00E00F (base
16) Shanghai Baud Data Communication Co.,Ltd.
COMMUNICATION DEVELOPMENT CORP
SHANGHAI 0000
CN

28-BE-03 (hex) TCT mobile ltd
28BE03 (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

90-3A-E6 (hex) PARROT SA
903AE6 (base 16) PARROT SA
174 Quai de Jemmapes
Paris 75010
FR

A0-98-ED (hex) Shandong Intelligent Optical Communication Development Co., Ltd.
A098ED (base 16) Shandong Intelligent Optical Communication Development Co., Ltd.
No.149 Yingcui Road,Torch Town,Advanced Technique Development Area
Jining Shandong 272023
CN

00-0E-F4 (hex) Kasda Networks Inc
000EF4 (base 16) Kasda Networks Inc
B-31 Building, Tanglang Industry Zone
Shenzhen Guangdong Province 518055

CN

00-22-80 (hex) A2B Electronics AB
002280 (base 16) A2B Electronics AB
Box 14
Motala S-591 21
SE

40-4A-D4 (hex) Widex A/S
404AD4 (base
16) Widex A/S
Nymoellevej 6
Lynge Alleroed DK3540
DK

98-93-CC (hex) LG ELECTRONICS INC
9893CC (base 16) LG ELECTRONICS INC
19-1, Cheongho-ri, Jinwi-myeon
Pyeongtaek-si Gyeonggi-do 451-713
KR

3C-CD-93 (hex) LG ELECTRONICS INC
3CCD93 (base 16) LG ELECTRONICS INC
19-1, CHEONGHO-RI, JINWI-MYEON
PYEONGTAEK GYEONGGI-DO 451-713
KR

20-21-A5 (hex) LG Electronics (Mobile Communications)
2021A5 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

6C-D6-8A (hex) LG Electronics (Mobile Communications)
6CD68A (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

00-16-7A (hex) Skyworth Overseas Development Ltd.
00167A (base 16) Skyworth Overseas Development Ltd.
Room 1505-06,Westlands Centre
0000 0000
HK

A4-29-40 (hex) Shenzhen YOUHUA Technology Co., Ltd
A42940 (base 16) Shenzhen

YOUHUA Technology Co., Ltd
Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

E4-A3-87 (hex) Control Solutions LLC
E4A387 (base 16) Control Solutions LLC
2520 Diehl Rd
Aurora IL 60502
US

00-24-83 (hex) LG Electronics (Mobile Communications)
002483 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

00-1F-E3 (hex) LG Electronics (Mobile Communications)
001FE3 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

2C-54-CF (hex) LG Electronics (Mobile Communications)
2C54CF (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

48-59-29 (hex) LG Electronics (Mobile Communications)
485929 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul
153-801
KR

CC-79-CF (hex) SHENZHEN RF-LINK TECHNOLOGY CO.,LTD.
CC79CF (base 16) SHENZHEN RF-LINK TECHNOLOGY CO.,LTD.
Bldg56A,6/F,Baotian Rd3,Xixiang Town,Baoan District,Shenzhen,P.R.C
ShenZhen Guangdong 518000
CN

00-19-25 (hex) Intelicis Corporation
001925 (base 16) Intelicis Corporation
4633 Old Ironsides Drive, Suite 150
Santa Clara CA 95054
US

94-76-B7 (hex) Samsung Electronics Co.,Ltd
9476B7 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F4-85-C6 (hex) FDT Technologies
F485C6 (base 16) FDT Technologies
14027 Memorial Drive #132
Houston TX 77024
US

00-19-AB (hex) Raycom CO ., LTD
0019AB (base 16) Raycom CO ., LTD
A,3-4/FL, Building 1,27 Chuangxin Road,
Beijing 102200
CN

4C-33-4E (hex) HIGHTECH
4C334E (base 16) HIGHTECH
No202.gsif, 4 Gyeonggang-ro 2326 beon-gil
Gangneung-si Gangwon-do 25570
KR

00-0F-62
(hex) Alcatel Bell Space N.V.
000F62 (base 16) Alcatel Bell Space N.V.
Berkenrodelei 33
Hoboken Antwerpen B-2660
BE

00-1C-D8 (hex) BlueAnt Wireless
001CD8 (base 16) BlueAnt Wireless
245 St.Kilda Rd, St Kilda
Melbourne Victoria 3182
AU

28-36-38 (hex) IEEE Registration Authority
283638 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

C8-8E-D1 (hex) IEEE Registration Authority
C88ED1 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

B0-1F-81 (hex) IEEE Registration Authority
B01F81 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

B8-D8-12 (hex) IEEE Registration Authority
B8D812 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

1C-21-D1 (hex) IEEE Registration Authority
1C21D1 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway
NJ 08554
US

7C-70-BC (hex) IEEE Registration Authority
7C70BC (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

E8-18-63 (hex) IEEE Registration Authority
E81863 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

28-6C-07 (hex) XIAOMI Electronics,CO.,LTD
286C07 (base 16) XIAOMI Electronics,CO.,LTD
Xiaomi Building, No.68 Qinghe Middle Street
Haidian District Beijing 100085
CN

F0-42-1C (hex) Intel Corporate
F0421C (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

2C-D1-41 (hex) IEEE Registration Authority
2CD141 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554

US

3C-39-E7 (hex) IEEE Registration Authority
3C39E7 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

BC-66-41 (hex) IEEE Registration Authority
BC6641
(base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

80-E4-DA (hex) IEEE Registration Authority
80E4DA (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

88-5D-90 (hex) IEEE Registration Authority
885D90 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

58-A2-B5 (hex) LG Electronics (Mobile Communications)
58A2B5 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

10-F9-6F (hex) LG Electronics (Mobile Communications)
10F96F (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

C4-43-8F (hex) LG Electronics (Mobile Communications)
C4438F (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

A0-91-69 (hex) LG Electronics (Mobile Communications)
A09169

(base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

BC-C0-0F (hex) Fiberhome Telecommunication Technologies Co.,LTD
BCC00F (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

9C-A5-C0 (hex) vivo Mobile Communication Co., Ltd.
9CA5C0 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong 523860
CN

30-44-A1 (hex) Shanghai Nanchao Information Technology
3044A1 (base 16) Shanghai Nanchao Information Technology
Floor 1th, building 13, No.368 Zhangjiang Road, Pudong New District, Shanghai
shanghai 200000
CN

C8-75-5B (hex) Quantify Technology Pty. Ltd.
C8755B (base 16) Quantify Technology Pty. Ltd.
Suite 1, 4 Sarich Way
Bentley Western Australia 6102
AU

4C-66-41 (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
4C6641 (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T.
Bangsamak SEMTHAI, WELLGROW INDUSTRIAL ESTATE
Bangpakong Chachoengsao 24180
TH

70-E2-84 (hex) Wistron Infocomm (Zhongshan) Corporation
70E284 (base 16) Wistron Infocomm (Zhongshan) Corporation
No.38,East Keji Road,Zhongshan Torch Development Zone,Zhongshan City,Guangdong,China
Zhongshan Guangdong 528437
CN

A8-54-B2 (hex) Wistron Neweb Corporation
A854B2 (base 16) Wistron Neweb Corporation
20 Park Avenue II, Hsin Science Park, Hsinchu 308, Taiwan
HsinChu Taiwan 308
TW

E0-95-79 (hex) ORTHOsoft inc, d/b/a Zimmer CAS
E09579 (base 16) ORTHOsoft inc, d/b/a Zimmer CAS
75 Queen Street, Suite 3300
Montreal Quebec H3C 2N6
CA

A0-AD-A1 (hex) JMR Electronics, Inc
A0ADA1 (base 16) JMR Electronics, Inc
8968 Fullbright Avenue
Chatsworth California 91311
US

E0-AC-F1 (hex) Cisco Systems, Inc
E0ACF1 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose
CA 95134
US

00-14-28 (hex) Vocollect Inc
001428 (base 16) Vocollect Inc
703 Rodi Road
Pittsburgh PA 15235
US

00-6B-9E (hex) Vizio, Inc
006B9E (base 16) Vizio, Inc
39 Tesla
Irvine CA 92618
US

70-F3-95 (hex) Universal Global Scientific Industrial Co., Ltd.
70F395 (base 16) Universal Global Scientific Industrial Co., Ltd.
141, LANE 351,SEC.1, TAIPING RD.
TSAOTUEN, NANTOU 54261
TW

5C-A8-6A (hex) HUAWEI TECHNOLOGIES CO.,LTD
5CA86A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-C0-AB (hex) Telco Systems, Inc.
00C0AB (base 16) Telco Systems, Inc.
15 Berkshire Road
Mansfield MA 02048
US

90-A4-DE (hex) Wistron Neweb Corporation
90A4DE (base 16) Wistron Neweb Corporation
20 Park Avenue II, Hsinchu Science Park,
Hsinchu 308
TW

00-17-CA (hex) Qisda Corporation
0017CA (base
16) Qisda Corporation
157 Shan Ying Road,
GueiShan Taoyuan, 333
TW

00-15-B7 (hex) Toshiba
0015B7 (base 16) Toshiba
2-9,Suehiro-Cho
Ome 1988710
JP

E8-9D-87 (hex) Toshiba
E89D87 (base 16) Toshiba
2-9,Suehiro-Cho
Ome Tokyo 1988710
JP

00-01-5B (hex) ITALTEL S.p.A/RF-UP-I
00015B (base 16) ITALTEL S.p.A/RF-UP-I
20019 Cast.Settimo M.se (MI)

IT

00-A0-A8 (hex) RENEX CORPORATION
00A0A8 (base 16) RENEX CORPORATION
2750 KILLARNEY DRIVE
WOODBRIDGE VA 22192
US

88-12-4E (hex) Qualcomm Inc.
88124E (base 16) Qualcomm Inc.
1700 Technology Drive
San Jose CA 95110
US

00-1B-32 (hex) QLogic Corporation
001B32 (base 16) QLogic Corporation
26650 Aliso Viejo Parkway
Aliso Viejo CA 92656

US

00-1D-7E (hex) Cisco-Linksys, LLC
001D7E (base 16) Cisco-Linksys, LLC
121 Theory Drive
Irvine California 92612
US

E4-FB-8F (hex) MOBIWIRE
MOBILES (NINGBO) CO.,LTD
E4FB8F (base 16) MOBIWIRE MOBILES (NINGBO) CO.,LTD
No.999,Dacheng East Road,Fenghua City,Zhejiang Province,China.
Fenghua Zhejiang 315500
CN

10-BD-55 (hex) Q-Lab Corporation
10BD55 (base 16) Q-Lab Corporation
800 Canterbury Rd
Westlake OH 44145
US

C4-49-BB (hex) MITSUMI ELECTRIC CO.,LTD.
C449BB (base 16) MITSUMI ELECTRIC CO.,LTD.
2-11-2, Tsurumaki
Tama-shi Tokyo 206-8567
JP

FC-2D-5E (hex) zte corporation
FC2D5E (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

00-19-CB (hex) Zyxel Communications Corporation
0019CB (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

2C-09-4D (hex) Raptor Engineering, LLC
2C094D (base 16) Raptor Engineering, LLC
2556 Anderson Dr.
Belvidere IL 61008
US

AC-37-43 (hex) HTC Corporation
AC3743

(base 16) HTC Corporation
No. 23, Xinghua Rd., Taoyuan City
Taoyuan County Taiwan 330
TW

F8-5A-00 (hex) Sanford LP
F85A00 (base 16) Sanford LP
6655 Peachtree Dunwoody Road
Atlanta GA 30228
US

B4-04-18 (hex) Smartchip Integrated Inc.
B40418 (base 16) Smartchip Integrated Inc.
9B,Science Plaza,1355 JinJiHu Avenue,Suzhou Industrial Park
Suzhou Jiangsu 215021
CN

90-CF-7D (hex) Qingdao Hisense Communications Co.,Ltd.
90CF7D (base 16) Qingdao Hisense Communications Co.,Ltd.
Qianwangang Road 218
Qingdao Shandong 266510
CN

38-76-CA (hex) Shenzhen Smart Intelligent Technology Co.Ltd
3876CA (base 16) Shenzhen Smart Intelligent Technology Co.Ltd
Gaoxin South 4th Road Hi-Tech Industry Park, Nanshan District
Shenzhen Guangdong 518000
CN

F4-0A-4A (hex) INDUSNET Communication Technology Co.,LTD
F40A4A (base 16) INDUSNET Communication Technology Co.,LTD
3th floor A block,No11
Gaopeng st,Wuhou district
chengdu sichuan 610041
CN

00-23-F8 (hex) Zyxel Communications Corporation
0023F8 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

B8-BB-AF (hex) Samsung Electronics Co.,Ltd
B8BBAF (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

60-C5-AD (hex) Samsung Electronics Co.,Ltd
60C5AD (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

44-2C-05 (hex) AMPAK Technology, Inc.
442C05 (base 16) AMPAK Technology, Inc.
No.1,Jen Ai Road Hsinchu Industrial Park, Hukou
Hsinchu Taiwan ROC. 30352
TW

8C-89-7A (hex) AUGTEK
8C897A (base 16) AUGTEK
Tuanjie Road No.100, Building C, Room 521
Nanjing Jiangsu 211899
CN

50-AB-3E (hex) Qibixx AG
50AB3E (base 16) Qibixx AG
Bahnhofstrasse 2
Buchs SG 9471
CH

04-27-58
(hex) HUAWEI TECHNOLOGIES CO.,LTD
042758 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

9C-E3-74 (hex) HUAWEI TECHNOLOGIES CO.,LTD
9CE374 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

88-50-DD (hex) Infiniband Trade Association
8850DD (base 16) Infiniband Trade Association
3855 SW 153rd Drive
Beaverton OR 97003
US

00-25-50 (hex) Riverbed Technology, Inc.
002550 (base 16) Riverbed Technology, Inc.
680 Folsom St
San Francisco CA 94107
US

FC-55-DC (hex) Baltic Latvian Universal Electronics LLC
FC55DC (base 16) Baltic Latvian Universal Electronics LLC
5706 Corsa Avenue Suite 102
Westlake Village CA 91362
US

94-18-82 (hex) Hewlett Packard Enterprise
941882 (base 16) Hewlett Packard Enterprise
8000 Foothills
Blvd.
Roseville CA 95747
US

60-38-E0 (hex) Belkin International Inc.
6038E0 (base 16) Belkin International Inc.
12045 E. Waterfront Drive
Playa Vista CA 90094
US

8C-D2-E9 (hex) YOKOTE SEIKO CO., LTD.
8CD2E9 (base 16) YOKOTE SEIKO CO., LTD.
10-18 Minami-Gosyono Yasumoto
Yokote-City Akita 013-0811
JP

24-F0-94 (hex) Apple, Inc.
24F094 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

08-6D-41 (hex) Apple, Inc.
086D41 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

EC-AD-B8 (hex) Apple, Inc.
ECADB8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-25-52 (hex) VXi Corporation
002552 (base 16) VXi Corporation
271 Locust Street
Dover NH 03820

US

98-01-A7 (hex) Apple, Inc.
9801A7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

68-79-ED (hex) SHARP Corporation
6879ED (base
16) SHARP Corporation
22-22,Nagaike-cho
Osaka city Osaka prefecture 545-8522
JP

60-8D-17 (hex) Sentrus Government Systems Division, Inc
608D17 (base 16) Sentrus Government Systems Division, Inc
141 Chesterfield Industrial Blvd
Chesterfield MO 63005-1219
US

7C-73-8B (hex) Cocoon Alarm Ltd
7C738B (base 16) Cocoon Alarm Ltd
46 The Calls
Leeds West Yorkshire LS2 7EY
GB

B4-D5-BD (hex) Intel Corporate
B4D5BD (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

98-AA-3C (hex) Will i-tech Co., Ltd.
98AA3C (base 16) Will i-tech Co., Ltd.
34, Deokcheon-ro, Manan-gu, Anyang-si, Gyeonggi-do, Korea
Anyang 14088
KR

DC-37-52 (hex) GE
DC3752 (base 16) GE
650 Markland Street
Markham Ontario L6C 0M1
CA

F4-91-1E (hex) ZHUHAI EWPE INFORMATION TECHNOLOGY INC
F4911E (base 16) ZHUHAI EWPE INFORMATION TECHNOLOGY INC
Room 409,NO.10,Technology 1st Road,

Gangwan Av.,Tangjia Bay Town,Zhuhai,Guangdong,China
Zhuhai Guangdong 519070
CN

DC-D9-16 (hex) HUAWEI TECHNOLOGIES CO.,LTD
DCD916 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-23-82 (hex) Lih Rong electronic Enterprise Co., Ltd.
002382 (base 16) Lih Rong electronic Enterprise Co., Ltd.
No. 2, Lane 387, Hsin Shu Rd.
Hsin Chuang City, Taipei 242
TW

F8-45-AD (hex) Konka Group Co., Ltd.
F845AD (base 16) Konka Group Co., Ltd.
Shenzhen Konka R & D Building, 28th floor 15-24
Nanshan District Guangdong 00000
CN

00-0F-E2 (hex) Hangzhou H3C Technologies Co., Limited
000FE2 (base 16) Hangzhou H3C Technologies Co., Limited
Oriental Electronic Bld., NO.2,Chuangye Road
Hai-Dian District Beijing 100085
CN

6C-E9-83 (hex) Gastron Co., LTD.
6CE983 (base 16) Gastron Co., LTD.
#75-10, Palgok2-dong, Sangnok-gu,
Ansan-city
Kyunggi-do 426-190
KR

28-E3-1F (hex) Xiaomi Communications Co Ltd
28E31F (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

F8-0F-84 (hex) Natural Security SAS
F80F84 (base 16) Natural Security SAS
165 Avenue de Bretagne
Lille 59000
FR

44-A4-2D (hex) TCT mobile ltd

44A42D (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

80-F6-2E (hex) Hangzhou H3C Technologies Co., Limited
80F62E (base 16) Hangzhou H3C Technologies Co., Limited
310 Liuhe Road, Zhijiang Science Park
Hangzhou Zhejiang, 310053
CN

70-F9-6D (hex) Hangzhou H3C Technologies Co., Limited
70F96D (base 16) Hangzhou H3C Technologies Co., Limited
310 Liuhe Road, Zhijiang Science Park
Hangzhou Zhejiang, 310053
CN

00-C0-F0 (hex) Kingston Technology Company,
Inc.
00C0F0 (base 16) Kingston Technology Company, Inc.
17600 NEWHOPE STREET
FOUNTAIN VALLEY CA 92708
US

00-18-D7 (hex) JAVAD GNSS, Inc.
0018D7 (base 16) JAVAD GNSS, Inc.
1731 Technology Drive, Suite 680
San Jose CA 95110
US

00-1F-09 (hex) Jastec
001F09 (base 16) Jastec
Jastec B/D 2F, 92-7 Kumgok-dong,
Boondang-gu, 463-804
KR

AC-62-0D (hex) Jabil Circuit(Wuxi) Co.,Ltd
AC620D (base 16) Jabil Circuit(Wuxi) Co.,Ltd
Lot J9, J10 Export Processing Zone
Wuxi City Jiangsu 214028
CN

BC-6A-44 (hex) Commend International GmbH
BC6A44 (base 16) Commend International GmbH
Saalachstrasse 51
Salzburg Salzburg A-5020
AT

F0-EE-58 (hex) PACE Telematics GmbH
F0EE58 (base 16) PACE Telematics GmbH
Haid-und-Neu-Str. 18
Karlsruhe 76131
DE

4C-A0-03 (hex) VITEC
4CA003 (base 16) VITEC
99 rue Pierre Semard
Chatillon 92320
FR

08-3F-BC (hex) zte corporation
083FBC
(base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

00-00-C9 (hex) Emulex Corporation
0000C9 (base 16) Emulex Corporation
3333 Susan Street
Costa Mesa CA 92626
US

B8-AE-ED (hex) Elitegroup Computer Systems Co.,Ltd.
B8AEED (base 16) Elitegroup Computer Systems Co.,Ltd.
No. 239, Sec. 2, Ti Ding Blvd.,
Taipei 11493
TW

1C-73-70 (hex) Neotech
1C7370 (base 16) Neotech
104, 37 Yaeun-ro
Gumi-si Gyoungsangbuk-do 730-711
KR

00-02-2E (hex) TEAC Corp. R& D
00022E (base 16) TEAC Corp. R& D
857 Koyata, Iruma

JP

00-60-B0 (hex) Hewlett Packard
0060B0 (base 16) Hewlett Packard
MS 42LE
CUPERTINO CA 95014
US

08-00-0D (hex) International Computers, Ltd
08000D (base 16) International Computers, Ltd
WENLOCK WAY
na UNITED KINGDOM
GB

30-E3-7A (hex) Intel Corporate
30E37A
(base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-40-AA (hex) Valmet Automation
0040AA (base 16) Valmet Automation
Lentokentänkatu 11, P.O.Box 237
Tampere FIN-3310
FI

70-50-AF (hex) SKY UK LIMITED
7050AF (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

F4-EF-9E (hex) SGSG SCIENCE & TECHNOLOGY CO. LTD
F4EF9E (base 16) SGSG SCIENCE & TECHNOLOGY CO. LTD
3RD Fl, Bldg A3, No.1 software Park Rd
Zhuhai Guangdong 519085
CN

1C-74-0D (hex) Zyxel Communications Corporation
1C740D (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

60-3E-CA (hex) Cambridge Medical Robotics Ltd
603ECA (base 16) Cambridge Medical Robotics Ltd
Unit 2, Crome Lea Business Park
Madingley Road Cambridgeshire CB23 7PH
GB

00-0D-B0 (hex) Olym-tech Co.,Ltd.
000DB0 (base 16) Olym-tech Co.,Ltd.
Room

401/402,No.1,Songling Road,Hi-tech
Shenzhen Guangdong 518031
CN

30-F6-B9 (hex) Ecocentric Energy
30F6B9 (base 16) Ecocentric Energy
E3 The Innovation Centre, 9 De Laeter Way, Technology Park
Bentley Western Australia 6102
AU

9C-74-1A (hex) HUAWEI TECHNOLOGIES CO.,LTD
9C741A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E4-A8-B6 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E4A8B6 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

24-4C-07 (hex) HUAWEI TECHNOLOGIES CO.,LTD
244C07 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

74-6F-F7 (hex) Wistron Neweb Corporation
746FF7 (base 16) Wistron Neweb Corporation
No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu R.O.C. 308
TW

D0-B0-CD
(hex) Moen
D0B0CD (base 16) Moen
25300 Al Moen Dr
North Olmstead OH 44070-8022
US

00-1F-1F (hex) Edimax Technology Co. Ltd.
001F1F (base 16) Edimax Technology Co. Ltd.
No. 278, Xinhu 1st Road
Taipei City Neihu Dist 248
TW

00-02-0E (hex) ECI Telecom Ltd.

00020E (base 16) ECI Telecom Ltd.
30 Hasivim St
Petach-Tikva 49133 49133
IL

20-0A-5E (hex) Xiangshan Giant Eagle Technology Developing Co., Ltd.
200A5E (base 16) Xiangshan Giant Eagle Technology Developing Co., Ltd.
Juexi Road no.9 Juexi street
Ningbo Zhejiang 315708
CN

B0-E2-E5 (hex) Fiberhome Telecommunication Technologies Co.,LTD
B0E2E5 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan City Hubei Province 430074
CN

40-47-6A (hex) Astro Gaming
40476A (base 16) Astro Gaming
340 Bryant St., Suite 101
San Francisco CA 94107
US

00-1F-A7 (hex) Sony Interactive
Entertainment Inc.
001FA7 (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

90-46-A2 (hex) Tedipay UK Ltd
9046A2 (base 16) Tedipay UK Ltd
Level 39, One Canada Square
London E14 5AB
GB

64-79-A7 (hex) Phison Electronics Corp.
6479A7 (base 16) Phison Electronics Corp.
No.1, Qun Yi Rd., Jhunan,
Miaoli 350
TW

1C-5F-2B (hex) D-Link International
1C5F2B (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy, Singapore
Singapore Singapore 609917
SG

00-C1-64 (hex) Cisco Systems, Inc
00C164 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

CC-B1-1A (hex) Samsung Electronics Co.,Ltd
CCB11A (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

70-3C-03 (hex) RadiAnt Co.,Ltd
703C03 (base 16) RadiAnt Co.,Ltd
102-610, 36,
Bucheon-ro 198beon-gil, Wonmi-gu
Bucheon-si Gyeonggi-do 14557
KR

AC-44-F2 (hex) YAMAHA CORPORATION
AC44F2 (base 16) YAMAHA CORPORATION
10-1 Nakazawa-cho, Naka-ku
Hamamatsu Shizuoka 430-8650
JP

CC-D3-E2 (hex) Jiangsu Yinhe Electronics Co.,Ltd.
CCD3E2 (base 16) Jiangsu Yinhe Electronics Co.,Ltd.
No.188 Nanhuan Road, TangQiao Town
Zhangjiagang Jiangsu 215611
CN

E4-FA-ED (hex) Samsung Electronics Co.,Ltd
E4FAED (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

28-83-35 (hex) Samsung Electronics Co.,Ltd
288335 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

DC-CF-96 (hex) Samsung Electronics Co.,Ltd
DCCF96 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

DC-2D-CB (hex) Beijing Unis HengYue Technology Co., Ltd.
DC2DCB (base 16) Beijing Unis HengYue Technology
Co., Ltd.
Room 402, No. 2 Block, No. 1 yard, Zhongguancun east road, Haidian District
Beijing 100190
CN

2C-96-62 (hex) Invenit BV
2C9662 (base 16) Invenit BV
Lange Broekstraat 3
Raamsdonk Noord-Brabant 4944 XH
NL

1C-EA-1B (hex) Nokia
1CEA1B (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

D4-61-2E (hex) HUAWEI TECHNOLOGIES CO.,LTD
D4612E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

54-51-1B (hex) HUAWEI TECHNOLOGIES CO.,LTD
54511B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

68-53-6C (hex) SPnS Co.,Ltd
68536C (base 16) SPnS Co.,Ltd
#315, Woolim Lions Valley 2nd, Gasan-dong, Geumcheon-gu
Seoul 08591
KR

04-7E-4A (hex) moobox CO., Ltd.
047E4A (base 16) moobox CO., Ltd.
No 801, Yanchang Zhong Road
Shanghai
Shanghai 200072
CN

00-80-E5 (hex) NetApp
0080E5 (base 16) NetApp
1395 Crossman Ave

Sunnyvale, CA 94089
US

9C-5C-8E (hex) ASUSTek COMPUTER INC.
9C5C8E (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

C8-87-22 (hex) Lumenpulse
C88722 (base 16) Lumenpulse
1751 Richardson, suite 1505
Montreal Quebec H3K 1G6
CA

84-68-3E (hex) Intel Corporate
84683E (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

74-3E-2B (hex) Ruckus Wireless
743E2B (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

CC-B3-AB (hex) shenzhen Biocare Bio-Medical Equipment Co.,Ltd.
CCB3AB (base 16) shenzhen Biocare Bio-Medical Equipment Co.,Ltd.
#A735, 7/F, Block A, Shenzhen Mingyou Industrial Products Exhibition & Procurement Center, Baoyuan Road, Xixiang Sub-district, Bao'an District, 518102 Shenzhen,
P.R. China
Shenzhen 518000
CN

E4-B3-18 (hex) Intel Corporate
E4B318 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

E0-CD-FD (hex) Beijing E3Control Technology Co, LTD
E0CDFD (base 16) Beijing E3Control Technology Co, LTD
1 Shangdi East Rd, Building A, Rm 205
Beijing Beijing 100085
CN

30-78-5C (hex) Partow Tamas Novin (Parman)

30785C (base 16) Partow Tamas Novin (Parman)
UNIT 32 NO.31 26TH WEST AVE ,ALLAMEH TABATABAIE ST.SAADAT ABAD
Tehran Tehran 1997968413
IR

E0-C7-67 (hex) Apple, Inc.
E0C767 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

80-ED-2C (hex) Apple, Inc.
80ED2C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-34-04 (hex) TCT mobile ltd
F03404 (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

80-D1-60 (hex) Integrated
Device Technology (Malaysia) Sdn. Bhd.
80D160 (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

60-AC-C8 (hex) KunTeng Inc.
60ACC8 (base 16) KunTeng Inc.
Room302, 3rd Floor, Building1 ,No.8 NongDa South street
HaiDian District BeiJing 100084
CN

1C-98-EC (hex) Hewlett Packard Enterprise
1C98EC (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

70-66-1B (hex) Sonova AG
70661B (base 16) Sonova AG
Laubisruetistrasse 28
Staefa 8712
CH

B0-7F-B9 (hex) NETGEAR
B07FB9 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

AC-61-EA (hex) Apple, Inc.
AC61EA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

38-B5-4D (hex) Apple, Inc.
38B54D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

1C-5C-F2 (hex) Apple, Inc.
1C5CF2
(base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

80-50-1B (hex) Nokia Corporation
80501B (base 16) Nokia Corporation
Joensuunkatu 7
Salo Varsinais-Suomi 24101
FI

A0-4E-04 (hex) Nokia Corporation
A04E04 (base 16) Nokia Corporation
Joensuunkatu 7
Salo Varsinais-Suomi 24101
FI

14-C1-26 (hex) Nokia Corporation
14C126 (base 16) Nokia Corporation
Joensuunkatu 7
Salo Varsinais-Suomi 24101
FI

60-01-94 (hex) Espressif Inc.
600194 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

D8-F7-10 (hex) Libre Wireless Technologies Inc.
D8F710 (base 16) Libre Wireless Technologies Inc.
5405 Alton Parkway
Irvine, CA CA 92604
US

3C-59-1E (hex) TCL King Electrical Appliances (Huizhou) Co., Ltd
3C591E (base 16) TCL King Electrical Appliances (Huizhou) Co., Ltd
7/FTCL Multimedia Building, TCL
International E City, No.1001 Zhongshanyuan Road, Nanshan
Shenzhen Guangdong 518052
CN

00-26-82 (hex) Gemtek Technology Co., Ltd.
002682 (base 16) Gemtek Technology Co., Ltd.
No.1 Jen Ai Road, Hsinchu Industrial Park,
Hukou, Hsinchu 303
TW

8C-A2-FD (hex) Starry, Inc.
8CA2FD (base 16) Starry, Inc.
PO Box 52226
Boston MA 02205
US

84-BA-3B (hex) CANON INC.
84BA3B (base 16) CANON INC.
30-2 Shimomaruko 3-chome,
Ohta-ku Tokyo 146-8501
JP

A8-7E-33 (hex) Nokia Danmark A/S
A87E33 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-24-03 (hex) Nokia Danmark A/S
002403 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-1B-33 (hex) Nokia Danmark A/S
001B33 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790

DK

00-19-4F (hex) Nokia Danmark A/S
00194F (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen
V DK-1790
DK

00-BD-3A (hex) Nokia Corporation
00BD3A (base 16) Nokia Corporation
Joensuunkatu 7
Salo Varsinais-Suomi 24101
FI

00-24-04 (hex) Nokia Danmark A/S
002404 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-19-B7 (hex) Nokia Danmark A/S
0019B7 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-17-B0 (hex) Nokia Danmark A/S
0017B0 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-15-DE (hex) Nokia Danmark A/S
0015DE (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-02-EE (hex) Nokia Danmark A/S
0002EE (base 16) Nokia Danmark A/S
Frederikskaj, Copenhagen V
copenhagen 12345
DK

00-09-E1 (hex) Gemtek Technology Co., Ltd.
0009E1 (base 16) Gemtek Technology Co., Ltd.
No.1 Jen Ai Road

Hukou Hsinchu 303
TW

14-0C-76 (hex) FREEBOX
SAS
140C76 (base 16) FREEBOX SAS
16 rue de la Ville l'Eveque
PARIS 75008
FR

00-16-BC (hex) Nokia Danmark A/S
0016BC (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-17-4B (hex) Nokia Danmark A/S
00174B (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-26-69 (hex) Nokia Danmark A/S
002669 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-21-09 (hex) Nokia Danmark A/S
002109 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-21-08 (hex) Nokia Danmark A/S
002108 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-12-62 (hex) Nokia Danmark A/S
001262 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-14-A7 (hex) Nokia Danmark A/S
0014A7 (base 16) Nokia Danmark A/S

Frederikskaj
Copenhagen V DK-1790
DK

00-15-A0
(hex) Nokia Danmark A/S
0015A0 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

02-9D-8E (hex) CARDIAC RECORDERS, INC.
029D8E (base 16) CARDIAC RECORDERS, INC.
34 SCARBORO RD
UK UNITED KINGDOM
GB

00-40-2A (hex) Canoga Perkins Corporation
00402A (base 16) Canoga Perkins Corporation
21012 LASSEN STREET
CHATSWORTH CA 91311-4241
US

A4-C7-DE (hex) Cambridge Industries(Group) Co.,Ltd.
A4C7DE (base 16) Cambridge Industries(Group) Co.,Ltd.
22 Floor,Qilai Tower;889 Yishan Road
Shanghai 200233
CN

00-19-C7 (hex) Cambridge Industries(Group) Co.,Ltd.
0019C7 (base 16) Cambridge Industries(Group) Co.,Ltd.
Room 309,333 Hong Qiao Road
Shanghai 200030
CN

70-D9-31 (hex) Cambridge Industries(Group) Co.,Ltd.
70D931 (base 16) Cambridge Industries(Group) Co.,Ltd.
22Floor,Qilai Tower;889Yishan Road
shanghai 200233
CN

02-70-B3 (hex) DATA RECALL
LTD.
0270B3 (base 16) DATA RECALL LTD.
SONDES PLACE
12345 UNITED KINGDOM
GB

00-01-36 (hex) CyberTAN Technology Inc.
000136 (base 16) CyberTAN Technology Inc.
99, Park Avenue III
Hsinchu 12345
TW

00-30-DA (hex) Comtrend Corporation
0030DA (base 16) Comtrend Corporation
3F-1, 10 Lane 609, Chongxin Road, Section 5,
New Taipei City, Taiwan 24159
TW

64-68-0C (hex) Comtrend Corporation
64680C (base 16) Comtrend Corporation
3F-1, 10 Lane 609, Chongxin Road, Section 5,
New Taipei City, Taiwan 24159
TW

38-72-C0 (hex) Comtrend Corporation
3872C0 (base 16) Comtrend Corporation
3F-1, 10 Lane 609, Chongxin Road, Section 5,
New Taipei City, Taiwan 24159
TW

A8-06-00 (hex) Samsung Electronics Co.,Ltd
A80600 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C4-36-55 (hex) Shenzhen Fenglian Technology Co., Ltd.
C43655 (base
16) Shenzhen Fenglian Technology Co., Ltd.
Room 302, 3F, Block 2, Oriental Cyberport, No. 2, Xinxi Road
Shenzhen Guangdong 518057
CN

E0-B9-E5 (hex) Technicolor Delivery Technologies Belgium NV
E0B9E5 (base 16) Technicolor Delivery Technologies Belgium NV
Prins Boudewijnlaan 47
Edegem - Belgium B-2650
BE

00-60-BB (hex) Cabletron Systems, Inc.
0060BB (base 16) Cabletron Systems, Inc.
35 INDUSTRIAL WAY
ROCHESTER NH 03866-5005
US

D8-B8-F6 (hex) Nantworks
D8B8F6 (base 16) Nantworks
12230 El Camino Real, Suite 400
San Diego CA 92130
US

24-F5-AA (hex) Samsung Electronics Co.,Ltd
24F5AA (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

98-83-89 (hex) Samsung Electronics Co.,Ltd
988389 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

84-A4-66 (hex) Samsung Electronics
Co.,Ltd
84A466 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

C4-57-6E (hex) Samsung Electronics Co.,Ltd
C4576E (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

50-85-69 (hex) Samsung Electronics Co.,Ltd
508569 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

78-59-5E (hex) Samsung Electronics Co.,Ltd
78595E (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

0C-14-20 (hex) Samsung Electronics Co.,Ltd
0C1420 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350

KR

94-B1-0A (hex) Samsung Electronics Co.,Ltd
94B10A (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

3C-BB-FD (hex) Samsung Electronics Co.,Ltd
3CBBFD (base 16) Samsung
Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A4-84-31 (hex) Samsung Electronics Co.,Ltd
A48431 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F0-5A-09 (hex) Samsung Electronics Co.,Ltd
F05A09 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

50-32-75 (hex) Samsung Electronics Co.,Ltd
503275 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

08-FC-88 (hex) Samsung Electronics Co.,Ltd
08FC88 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F8-D0-BD (hex) Samsung Electronics Co.,Ltd
F8D0BD (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A0-B4-A5 (hex) Samsung Electronics Co.,Ltd
A0B4A5 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong

Gumi Gyeongbuk 730-350
KR

E4-F8-EF
(hex) Samsung Electronics Co.,Ltd
E4F8EF (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D0-4D-2C (hex) Roku, Inc.
D04D2C (base 16) Roku, Inc.
12980 Saratoga Ave
Saratoga CA 95070
US

B0-A7-37 (hex) Roku, Inc.
B0A737 (base 16) Roku, Inc.
12980 Saratoga Ave
Saratoga CA 95070
US

00-80-77 (hex) Brother industries, LTD.
008077 (base 16) Brother industries, LTD.
RESEARCH LABORATORY
piscatawa 12345
JP

00-1B-E9 (hex) Broadcom
001BE9 (base 16) Broadcom
16215 Alton Parkway
Irvine CA 92618
US

DC-44-6D (hex) Allwinner Technology Co., Ltd
DC446D (base 16) Allwinner Technology Co., Ltd
No.9 Technology Road 2, High-Tech Zone
Zhuhai Guangdong 519085
CN

74-5A-AA (hex) HUAWEI TECHNOLOGIES CO.,LTD
745AAA (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan
523808
CN

04-FE-8D (hex) HUAWEI TECHNOLOGIES CO.,LTD

04FE8D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

DC-64-B8 (hex) Shenzhen JingHanDa Electronics Co.Ltd
DC64B8 (base 16) Shenzhen JingHanDa Electronics Co.Ltd
5th Floor,No 4 ,Road 1,ShangXue Technology industrial Park,LongGang district,ShenZhen,GuangDong,China
ShenZhen GuangDong 518129
CN

44-EE-02 (hex) MTI Ltd.
44EE02 (base 16) MTI Ltd.
Nishi-shinjuku Tokyo Opera City Tower 3-20-2 35F
Shinjuku-ku Tokyo 163-1435
JP

00-13-33 (hex) BaudTec Corporation
001333 (base 16) BaudTec Corporation
12F, NO.181, Sec. 1. Tatung Rd.,
Hsichih Taipei Hsien 221
TW

58-67-1A (hex) Barnes&Noble
58671A (base 16) Barnes&Noble
400 HAMILTON AVENUE
PALO ALTO CA 94301
US

00-26-75 (hex) Aztech Electronics Pte Ltd
002675 (base 16) Aztech Electronics Pte
Ltd
31 Ubi Road 1
Singapore 408694
SG

00-24-FE (hex) AVM GmbH
0024FE (base 16) AVM GmbH
Alt-Moabit 95
Berlin 10559
DE

C0-25-06 (hex) AVM GmbH
C02506 (base 16) AVM GmbH
Alt-Moabit 95
Berlin 10559
DE

58-56-E8 (hex) ARRIS Group, Inc.
5856E8 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

F8-0B-BE (hex) ARRIS Group, Inc.
F80BBE (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

DC-45-17 (hex) ARRIS Group, Inc.
DC4517 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

C8-AA-21 (hex) ARRIS Group, Inc.
C8AA21 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

F8-7B-7A (hex) ARRIS Group, Inc.
F87B7A (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

A8-D3-F7 (hex) Arcadyan Technology Corporation
A8D3F7 (base 16) Arcadyan
Technology Corporation
No.8, Sec.2, Guangfu Rd.,
Hsinchu City Hsinchu 30071
TW

48-9D-24 (hex) BlackBerry RTS
489D24 (base 16) BlackBerry RTS
451 Phillip Street
Waterloo ON N2L 3X2
CA

00-0D-92 (hex) ARIMA Communications Corp.
000D92 (base 16) ARIMA Communications Corp.
16, lane 658, Ying-Tao Road
Yingko Taipei County 23943
TW

00-21-63 (hex) ASKEY COMPUTER CORP
002163 (base 16) ASKEY COMPUTER CORP
10F,NO.119.CHIENKANG RD,CHUNG-HO,
taipei TAIPEI 235
TW

08-BD-43 (hex) NETGEAR
08BD43 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

4C-60-DE (hex) NETGEAR
4C60DE (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

C4-3D-C7 (hex) NETGEAR
C43DC7 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

40-5D-82 (hex) NETGEAR
405D82 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

DC-EF-09
(hex) NETGEAR
DCEF09 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

00-15-CE (hex) ARRIS Group, Inc.
0015CE (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-15-A2 (hex) ARRIS Group, Inc.
0015A2 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121

US

00-15-A3 (hex) ARRIS Group, Inc.
0015A3 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-15-A4 (hex) ARRIS Group, Inc.
0015A4 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-00-CA (hex) ARRIS Group, Inc.
0000CA (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-19-63 (hex) Sony Corporation
001963 (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

00-1F-E4 (hex) Sony Corporation
001FE4 (base 16) Sony Corporation
1-7-1
Konan Minato-ku
Tokyo 108-0075
JP

00-23-45 (hex) Sony Corporation
002345 (base 16) Sony Corporation
4-12-3 Higashi – Shinagawa
Shinagawa-ku Tokyo 140-0002
JP

6C-0E-0D (hex) Sony Corporation
6C0E0D (base 16) Sony Corporation
4-12-3 Higashi – Shinagawa
Shinagawa-ku Tokyo 140-0002
JP

00-11-1A (hex) ARRIS Group, Inc.
00111A (base 16) ARRIS Group, Inc.
6450 Sequence Drive

San Diego CA 92121
US

00-0F-9F (hex) ARRIS Group, Inc.
000F9F (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-04-BD (hex) ARRIS Group, Inc.
0004BD (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-E0-6F (hex) ARRIS Group, Inc.
00E06F (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

80-96-B1 (hex) ARRIS Group, Inc.
8096B1 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

6C-23-B9
(hex) Sony Corporation
6C23B9 (base 16) Sony Corporation
4-12-3 Higashi – Shinagawa
Shinagawa-ku Tokyo 140-0002
JP

30-17-C8 (hex) Sony Corporation
3017C8 (base 16) Sony Corporation
4-12-3 Higashi – Shinagawa
Shinagawa-ku Tokyo 140-0002
JP

20-54-76 (hex) Sony Corporation
205476 (base 16) Sony Corporation
4-12-3 Higashi – Shinagawa
Shinagawa-ku Tokyo 140-0002
JP

00-26-42 (hex) ARRIS Group, Inc.
002642 (base 16) ARRIS Group, Inc.

6450 Sequence Drive
San Diego CA 92121
US

00-24-A1 (hex) ARRIS Group, Inc.
0024A1 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-22-10 (hex) ARRIS Group, Inc.
002210 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-22-B4 (hex) ARRIS Group, Inc.
0022B4 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1C-FB (hex) ARRIS
Group, Inc.
001CFB (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-14-9A (hex) ARRIS Group, Inc.
00149A (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-14-E8 (hex) ARRIS Group, Inc.
0014E8 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-19-C0 (hex) ARRIS Group, Inc.
0019C0 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

70-7E-43 (hex) ARRIS Group, Inc.

707E43 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-15-2F (hex) ARRIS Group, Inc.
00152F (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-17-EE (hex) ARRIS Group, Inc.
0017EE (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1A-80 (hex) Sony Corporation
001A80 (base 16) Sony Corporation
Gotenyama
Tec, 5-1-2 Kitashinagawa
Tokyo 141-0001
JP

00-12-EE (hex) Sony Corporation
0012EE (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

00-16-20 (hex) Sony Corporation
001620 (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

00-23-95 (hex) ARRIS Group, Inc.
002395 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-23-AF (hex) ARRIS Group, Inc.
0023AF (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1F-C4 (hex) ARRIS Group, Inc.
001FC4 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-00-F4 (hex) Allied Telesis, Inc.
0000F4 (base 16) Allied Telesis, Inc.
CORPORATION
SUNNYVALE CA 94086
US

00-15-77 (hex) Allied Telesis, Inc.
001577 (base 16) Allied Telesis, Inc.
3200 North First Street
San Jose 95134
US

70-3C-39 (hex) SEAWING
Kft
703C39 (base 16) SEAWING Kft
Palánkai utca 5.
Székesfehérvár Fejér 8000
HU

90-97-D5 (hex) Espressif Inc.
9097D5 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

AC-D0-74 (hex) Espressif Inc.
ACD074 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

38-E3-C5 (hex) Taicang T&W Electronics
38E3C5 (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

88-41-FC (hex) AirTies Wireless Networks
8841FC (base 16) AirTies Wireless Networks
Gulbahar Mahallesi, Avni Diligil Sokak
ISTANBUL ISTANBUL 34394
TR

B8-61-6F (hex) Accton Technology Corp
B8616F (base 16) Accton Technology Corp
No.1 Creation Rd III, Science-based Industrial Park
Hsinchu 30077
TW

00-12-CF (hex) Accton Technology Corp
0012CF (base 16) Accton
Technology Corp
No. 1 Creation Rd. III, Science-based Industrial Park
Hsinchu 300
TW

00-30-F1 (hex) Accton Technology Corp
0030F1 (base 16) Accton Technology Corp
No. 1, Creation Rd. IV
Hsinchu 12345
TW

98-74-3D (hex) Shenzhen Jun Kai Hengye Technology Co. Ltd
98743D (base 16) Shenzhen Jun Kai Hengye Technology Co. Ltd
5th floor,Yahua Building,#1Hongwan Gonghegongye RD,Xixiang Gushu Community,Baoan District,Shenzhen
Shenzhen Guangdong 518000
CN

A0-F4-59 (hex) FN-LINK TECHNOLOGY LIMITED
A0F459 (base 16) FN-LINK TECHNOLOGY LIMITED
5th Floor, A Building, Haoye Logistics Park, Shugang Channel, Bao'an District,
SHENZHEN GUANGDONG 518000
CN

58-63-56 (hex) FN-LINK TECHNOLOGY LIMITED
586356 (base 16) FN-LINK TECHNOLOGY LIMITED
5th Floor, A Building, Haoye Logistics Park, Shugang Channel, Bao'an District,
SHENZHEN GUANGDONG 518000
CN

40-E2-30 (hex) AzureWave Technology Inc.
40E230
(base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.,
New Taipei City Taiwan 231
TW

80-D2-1D (hex) AzureWave Technology Inc.
80D21D (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.

New Taipei City Taiwan 231
TW

70-5A-0F (hex) Hewlett Packard
705A0F (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston TX 77070
US

44-95-FA (hex) Qingdao Santong Digital Technology Co.Ltd
4495FA (base 16) Qingdao Santong Digital Technology Co.Ltd
Room701, No.1£¬Fu Ying Building,No.443East Changjiang Road,Qingdao Economic and Technological Development District
Qingdao Shandong 266555
CN

74-C2-46 (hex) Amazon Technologies Inc.
74C246 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

00-0F-A3 (hex) Alpha Networks Inc.
000FA3 (base 16) Alpha Networks Inc.
No.8 Li-shing 7th Rd.,Science-based Industrial Park
Hsinchu 300
TW

00-1D-6A (hex) Alpha
Networks Inc.
001D6A (base 16) Alpha Networks Inc.
No.8 Li-shing Seventh Road,Science-based
Hsinchu 300
US

00-25-D3 (hex) AzureWave Technology Inc.
0025D3 (base 16) AzureWave Technology Inc.
8F ., No.94, Baozhong Rd.
Xindian City 231
TW

1C-4B-D6 (hex) AzureWave Technology Inc.
1C4BD6 (base 16) AzureWave Technology Inc.
8F., No. 94, Baoshong Rd.
Xindian City, Taipei County 231
TW

08-A9-5A (hex) AzureWave Technology Inc.

08A95A (base 16) AzureWave Technology Inc.
8F., No. 94, Baoshong Rd.
Xindian City, Taipei County 231
TW

94-DB-C9 (hex) AzureWave Technology Inc.
94DBC9 (base 16) AzureWave Technology Inc.
8F No94 Baozhong Rd
XindianDistrict, New Taipei City 231
TW

24-0A-64 (hex) AzureWave Technology Inc.
240A64 (base 16) AzureWave Technology Inc.
9F.,No.92,Baozhong Rd
Xindian NewTaipeiCity 231
TW

D4-D1-84 (hex) ADB Broadband Italia
D4D184
(base 16) ADB Broadband Italia
via Sarca 222
Milano 20126
IT

A0-4F-D4 (hex) ADB Broadband Italia
A04FD4 (base 16) ADB Broadband Italia
VIALE SARCA 336
MILANO 20126
IT

8C-B8-64 (hex) AcSiP Technology Corp.
8CB864 (base 16) AcSiP Technology Corp.
3F., No.22, Dalin Rd.,
Taoyuan City 330
TW

5C-E2-F4 (hex) AcSiP Technology Corp.
5CE2F4 (base 16) AcSiP Technology Corp.
3F., No.22, Dalin Rd.
Taoyuan Taoyuan County 33067
TW

00-30-D3 (hex) Agilent Technologies, Inc.
0030D3 (base 16) Agilent Technologies, Inc.
1501 Page Mill Road
Palo Alto CA 94304-1126
US

00-A0-2F (hex) ADB Broadband Italia
00A02F (base 16) ADB Broadband Italia
VIALE SARCA 222
20126 MILAN 12345
IT

70-9E-29 (hex) Sony Interactive Entertainment Inc.
709E29 (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

A4-DB-30 (hex) Liteon Technology
Corporation
A4DB30 (base 16) Liteon Technology Corporation
4F,90,Chien 1 Road,ChungHo,Taipei Hsien,Taiwan,
TaiPei TaiWan 23585
TW

40-F0-2F (hex) Liteon Technology Corporation
40F02F (base 16) Liteon Technology Corporation
4F,90,Chien 1 Road,ChungHo,Taipei Hsien,Taiwan,
TaiPei TaiWan 23585
TW

D0-0E-D9 (hex) Taicang T&W Electronics
D00ED9 (base 16) Taicang T&W Electronics
89# Jiang Nan RD, Lu Du
Taicang Jiangsu 215412
CN

54-14-73 (hex) Wingtech Group (HongKongLimited
541473 (base 16) Wingtech Group (HongKongLimited
FLAT/RM 1903 19/F PODIUM PLAZA 5HANOI ROAD TSIM SHA TSUI
HongKong 999077
HK

7C-CC-B8 (hex) Intel Corporate
7CCCB8 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

F4-06-69 (hex) Intel Corporate
F40669 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-1D-E1 (hex) Intel Corporate
001DE1
(base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-1F-3B (hex) Intel Corporate
001F3B (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-21-5D (hex) Intel Corporate
00215D (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-21-6A (hex) Intel Corporate
00216A (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

80-86-F2 (hex) Intel Corporate
8086F2 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

E0-94-67 (hex) Intel Corporate
E09467 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

08-D4-0C (hex) Intel Corporate
08D40C (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

6C-88-14 (hex) Intel Corporate
6C8814 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech

2/3
Kulim Kedah 09000
MY

90-E2-BA (hex) Intel Corporate
90E2BA (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-26-C7 (hex) Intel Corporate
0026C7 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-26-C6 (hex) Intel Corporate
0026C6 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

30-3A-64 (hex) Intel Corporate
303A64 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

AC-FD-CE (hex) Intel Corporate
ACFDCE (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

0C-CC-26 (hex) Airenetworks
0CCC26 (base 16) Airenetworks
Ramon y Cajal 11
Elche Alicante 03203
ES

E0-9D-31 (hex) Intel Corporate
E09D31 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

88-53-2E (hex) Intel Corporate
88532E

(base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

88-4A-EA (hex) Texas Instruments
884AEA (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

74-E1-4A (hex) IEEE Registration Authority
74E14A (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

0C-EF-AF (hex) IEEE Registration Authority
0CEFAF (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

F8-02-78 (hex) IEEE Registration Authority
F80278 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

A0-BB-3E (hex) IEEE Registration Authority
A0BB3E (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

C4-66-99 (hex) vivo Mobile Communication Co., Ltd.
C46699 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

C8-F2-30
(hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
C8F230 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD
DONGGUAN GUANGDONG 523860
CN

8C-0E-E3 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
8C0EE3 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,WUSHA,CHANG'AN
DONGGUAN GUANGDONG 523860
CN

B0-79-94 (hex) Motorola Mobility LLC, a Lenovo Company
B07994 (base 16) Motorola Mobility LLC, a Lenovo Company
600 North US Hwy 45
Libertyville IL 60048
US

A4-70-D6 (hex) Motorola Mobility LLC, a Lenovo Company
A470D6 (base 16) Motorola Mobility LLC, a Lenovo Company
222 Merchandise Mart Plaza, Suite 1800
Chicago IL 60654
US

74-C9-9A (hex) Ericsson AB
74C99A (base 16) Ericsson AB
Torshamnsgatan 36
Stockholm SE-164 80
SE

5C-C2-13 (hex) Fr. Sauter AG
5CC213 (base 16) Fr. Sauter AG
Im Surinam
55
Basel BS CH4016
CH

28-10-1B (hex) MagnaCom
28101B (base 16) MagnaCom
9 Bareket Street
Petah Tikva 4951777
IL

00-16-76 (hex) Intel Corporate
001676 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-16-EA (hex) Intel Corporate
0016EA (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-1B-77 (hex) Intel Corporate
001B77 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-1C-C0 (hex) Intel Corporate
001CC0 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

10-4A-7D (hex) Intel Corporate
104A7D (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C0-D0-44 (hex) Sagemcom Broadband SAS
C0D044 (base 16) Sagemcom Broadband SAS
250, Route de l'Empereur
RUEIL-MALMAISON 92500
FR

A0-1B-29 (hex) Sagemcom
Broadband SAS
A01B29 (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
Rueil Malmaison Cedex Hauts de Seine 92848
FR

C8-CD-72 (hex) Sagemcom Broadband SAS
C8CD72 (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
Rueil Malmaison Cedex Hauts de Seine 92848
FR

00-22-A4 (hex) 2Wire Inc
0022A4 (base 16) 2Wire Inc
1764 Automation Parkway
San Jose CA 95131
US

98-2C-BE (hex) 2Wire Inc
982CBE (base 16) 2Wire Inc
1764 Automation Pkwy
San Jose CA 95131

US

64-0F-28 (hex) 2Wire Inc
640F28 (base 16) 2Wire Inc
1764 Automation Parkway
San Jose CA 95131
US

00-15-56 (hex) Sagemcom Broadband SAS
001556 (base 16) Sagemcom Broadband SAS
Le Ponnant de Paris
CEDEX Paris 75512
FR

00-14-95 (hex) 2Wire Inc
001495 (base 16) 2Wire Inc
1704 Automation Parkway
San Jose CA 95131
US

00-50-BA (hex) D-Link Corporation
0050BA (base 16) D-Link
Corporation
2F, NO. 233L-2, PAO-CHIAO RD.
TAIPEI 0000
TW

00-17-9A (hex) D-Link Corporation
00179A (base 16) D-Link Corporation
No. 289, Sinhu 3rd Rd., Neihu District,
Taipei 114
TW

00-1C-F0 (hex) D-Link Corporation
001CF0 (base 16) D-Link Corporation
NO.289, Sinhu 3rd Rd.,
Neihu District, Taipei City 114
TW

00-1E-58 (hex) D-Link Corporation
001E58 (base 16) D-Link Corporation
NO.289, Sinhu 3rd Rd.,
Neihu District, Taipei City 114
TW

00-22-B0 (hex) D-Link Corporation
0022B0 (base 16) D-Link Corporation
No.289, Sinhu 3rd RD.,

Neihu District, Taipei City 114
TW

00-24-01 (hex) D-Link Corporation
002401 (base 16) D-Link Corporation
No.289, Sinhu 3rd RD.,
Neihu District, Taipei City 114
TW

1C-AF-F7 (hex) D-Link International
1CAFF7 (base 16) D-Link International
1 INTERNATIONAL BUSINESS PARK,
SINGAPORE 609917
SG

14-D6-4D (hex) D-Link
International
14D64D (base 16) D-Link International
1 INTERNATIONAL BUSINESS PARK
SINGAPORE 609917
SG

B4-99-BA (hex) Hewlett Packard
B499BA (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

0C-47-C9 (hex) Amazon Technologies Inc.
0C47C9 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

94-44-52 (hex) Belkin International Inc.
944452 (base 16) Belkin International Inc.
12045 E. Waterfront Drive
Playa Vista CA 90094
US

00-30-C5 (hex) CADENCE DESIGN SYSTEMS, INC.
0030C5 (base 16) CADENCE DESIGN SYSTEMS, INC.
555 RIVER OAKS PARKWAY
SAN JOSE CA 95134
US

34-8A-AE (hex) Sagemcom Broadband SAS
348AAE (base 16) Sagemcom Broadband SAS

250 route de l'Empereur
RUEIL MALMAISON CEDEX Hauts de Seine 92848
FR

7C-03-D8 (hex) Sagemcom Broadband SAS
7C03D8 (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
RUEIL
MALMAISON CEDEX Hauts de Seine 92848
FR

C0-AC-54 (hex) Sagemcom Broadband SAS
C0AC54 (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
Rueil Malmaison HAUTS DE SEINE 92848
FR

2C-39-96 (hex) Sagemcom Broadband SAS
2C3996 (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
Rueil Malmaison HAUTS DE SEINE 92848
FR

F0-82-61 (hex) Sagemcom Broadband SAS
F08261 (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
Rueil Malmaison HAUTS DE SEINE 92848
FR

F8-2C-18 (hex) 2Wire Inc
F82C18 (base 16) 2Wire Inc
1764 Automation Parkway
San Jose CA 95131
US

18-01-7D (hex) Harbin Arteor technology co., LTD
18017D (base 16) Harbin Arteor technology co., LTD
Yushan Road 49-2
Harbin Heilongjiang 150090
CN

E0-D7-BA (hex) Texas Instruments
E0D7BA (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

D0-8C-B5 (hex) Texas Instruments

D08CB5
(base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

00-18-2F (hex) Texas Instruments
00182F (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

00-17-EA (hex) Texas Instruments
0017EA (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

00-21-BA (hex) Texas Instruments
0021BA (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

00-14-BF (hex) Cisco-Linksys, LLC
0014BF (base 16) Cisco-Linksys, LLC
121 Theory Dr.
Irvine CA 92612
US

BC-0D-A5 (hex) Texas Instruments
BC0DA5 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

CC-8C-E3 (hex) Texas Instruments
CC8CE3 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

1C-E2-CC (hex) Texas Instruments
1CE2CC (base 16) Texas Instruments
12500
TI Boulevard, MS 8723
Dallas TX 75243
US

98-59-45 (hex) Texas Instruments
985945 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

D4-94-A1 (hex) Texas Instruments
D494A1 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

B0-B4-48 (hex) Texas Instruments
B0B448 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

94-EB-2C (hex) Google, Inc.
94EB2C (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View 94043
US

90-94-E4 (hex) D-Link International
9094E4 (base 16) D-Link International
1 International Business Park, #03-12, The Synergy
SINGAPORE 609917
SG

CC-B2-55 (hex) D-Link International
CCB255 (base 16) D-Link International
1 International Business Park, #03-12, The Synergy
SINGAPORE 609917
SG

28-10-7B (hex) D-Link International
28107B (base
16) D-Link International
1 International Business Park, #03-12, The Synergy
SINGAPORE 609917
SG

FC-75-16 (hex) D-Link International
FC7516 (base 16) D-Link International
1 International Business Park, #03-12, The Synergy
SINGAPORE 609917

SG

84-C9-B2 (hex) D-Link International
84C9B2 (base 16) D-Link International
1 International Business Park, #03-12, The Synergy
SINGAPORE 609917
SG

C8-D3-A3 (hex) D-Link International
C8D3A3 (base 16) D-Link International
1 Internal Business Park, #03-12. The Synergy Singapore
Singapore 609917
US

3C-BB-73 (hex) Shenzhen Xinguodu Technology Co., Ltd.
3CBB73 (base 16) Shenzhen Xinguodu Technology Co., Ltd.
F17A, JinSong Building, Tairan Industrial & Trade Park, Chegongmiao, Shennan RoadFutian District
Shenzhen Guangdong 518040
CN

28-7C-DB (hex) Hefei Toycloud Technology Co.,ltd
287CDB (base 16) Hefei Toycloud Technology Co.,ltd
FLOOR
13,XUNFEI BUILDING,NO.666 WANGJIANG ROAD,HIGH & NEW TECHNOLOGY DEVELOPMENT ZONE.HEFEI.
Hefei Anhui 230088
CN

80-6A-B0 (hex) Shenzhen TINNO Mobile Technology Corp.
806AB0 (base 16) Shenzhen TINNO Mobile Technology Corp.
Building, No.33, Xiandong Rd, Xili
Nanshan District, Shenzhen PRC 518053
CN

04-78-63 (hex) Shanghai MXCHIP Information Technology Co., Ltd.
047863 (base 16) Shanghai MXCHIP Information Technology Co., Ltd.
9th Floor, No. 5 Building, 2145 Jinshajiang Rd., Putuo District
Shanghai 200333
CN

3C-5A-B4 (hex) Google, Inc.
3C5AB4 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View 94043
US

F4-F5-E8 (hex) Google, Inc.
F4F5E8 (base 16) Google, Inc.

1600 Amphitheatre Parkway
Mountain View 94043
US

48-AD-08 (hex) HUAWEI TECHNOLOGIES CO.,LTD
48AD08 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan
523808
CN

4C-FB-45 (hex) HUAWEI TECHNOLOGIES CO.,LTD
4CFB45 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan Guangdong 523808
CN

00-9A-CD (hex) HUAWEI TECHNOLOGIES CO.,LTD
009ACD (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan Guangdong 523808
CN

70-B3-D5 (hex) IEEE Registration Authority
70B3D5 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

28-ED-6A (hex) Apple, Inc.
28ED6A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

40-9F-87 (hex) Jide Technology (Hong Kong) Limited
409F87 (base 16) Jide Technology (Hong Kong) Limited
jiahua Mansion 3F, 133 North 4th Ring Road East, Chaoyang District
Beijing 100101
CN

0C-F9-C0 (hex) SKY UK LIMITED
0CF9C0 (base 16) SKY UK LIMITED
130 Kings Road
Brentwood
Essex 08854
GB

4C-FF-12 (hex) Fuze Entertainment Co., ltd
4CFF12 (base 16) Fuze Entertainment Co., ltd
3rd Floor Harbour Centre
George Town George Town P.O. Box 613GT
KY

0C-C7-31 (hex) Currant, Inc.
0CC731 (base 16) Currant, Inc.
927 Industrial Ave
Palo Alto CA 94303
US

AC-9A-22 (hex) NXP Semiconductors
AC9A22 (base 16) NXP Semiconductors
411 E. Plumeria Drive
San Jose CA 95134
US

84-61-A0 (hex) ARRIS Group, Inc.
8461A0 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

5C-8F-E0 (hex) ARRIS Group, Inc.
5C8FE0 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

BC-CA-B5 (hex) ARRIS Group, Inc.
BCCAB5 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

D0-39-B3 (hex) ARRIS Group, Inc.
D039B3 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-0F-CC
(hex) ARRIS Group, Inc.
000FCC (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

38-F2-3E (hex) Microsoft Mobile Oy
38F23E (base 16) Microsoft Mobile Oy
Keilalahdentie 4
Espoo 02150
FI

AC-B3-13 (hex) ARRIS Group, Inc.
ACB313 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

0C-F8-93 (hex) ARRIS Group, Inc.
0CF893 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

3C-DF-A9 (hex) ARRIS Group, Inc.
3CDFA9 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-15-D1 (hex) ARRIS Group, Inc.
0015D1 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1D-D0 (hex) ARRIS Group, Inc.
001DD0 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1D-D3 (hex) ARRIS Group, Inc.
001DD3 (base 16) ARRIS Group,
Inc.
6450 Sequence Drive
San Diego CA 92121
US

2C-41-38 (hex) Hewlett Packard
2C4138 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070

US

44-1E-A1 (hex) Hewlett Packard
441EA1 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

78-E7-D1 (hex) Hewlett Packard
78E7D1 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

00-12-F0 (hex) Intel Corporate
0012F0 (base 16) Intel Corporate
Lot 8, Jalan Hi-tech 2/3
Kulim Kedah 09000
MY

E4-F8-9C (hex) Intel Corporate
E4F89C (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

6C-A1-00 (hex) Intel Corporate
6CA100 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

A4-02-B9 (hex) Intel Corporate
A402B9 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

DC-53-60 (hex) Intel
Corporate
DC5360 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

34-64-A9 (hex) Hewlett Packard
3464A9 (base 16) Hewlett Packard
11445 Compaq Center Drive

Houston 77070
US

38-63-BB (hex) Hewlett Packard
3863BB (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

5C-B9-01 (hex) Hewlett Packard
5CB901 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

DC-4A-3E (hex) Hewlett Packard
DC4A3E (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

9C-B6-54 (hex) Hewlett Packard
9CB654 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

00-07-40 (hex) BUFFALO.INC
000740 (base 16) BUFFALO.INC
AKAMONDORI Bldg., 30-20,Ohsu 3-chome
Naka-ku,Nagoya Aichi Pref. 460-8315
JP

00-24-A5 (hex) BUFFALO.INC
0024A5 (base 16) BUFFALO.INC
AKAMONDORI
Bldg., 30-20,Ohsu 3-chome
Naka-ku,Nagoya Aichi Pref. 460-8315
JP

CC-E1-D5 (hex) BUFFALO.INC
CCE1D5 (base 16) BUFFALO.INC
AKAMONDORI Bldg.,30-20,Ohsu 3-chome
Naka-ku,Nagoya Aichi Pref 460-8315
JP

00-1C-C4 (hex) Hewlett Packard
001CC4 (base 16) Hewlett Packard

20555 State Highway 249
Houston TX 77070
US

00-1E-0B (hex) Hewlett Packard
001E0B (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

00-22-64 (hex) Hewlett Packard
002264 (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

00-25-B3 (hex) Hewlett Packard
0025B3 (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

6C-3B-E5 (hex) Hewlett Packard
6C3BE5 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

A0-B3-CC (hex) Hewlett Packard
A0B3CC (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston
77070
US

EC-B1-D7 (hex) Hewlett Packard
ECB1D7 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

00-0C-F1 (hex) Intel Corporation
000CF1 (base 16) Intel Corporation
MS: JF3-420
Hillsboro OR 97124
US

78-48-59 (hex) Hewlett Packard

784859 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

64-31-50 (hex) Hewlett Packard
643150 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

58-DC-6D (hex) Exceptional Innovation, Inc.
58DC6D (base 16) Exceptional Innovation, Inc.
480 Olde Worthington Rd, Suite 350
Westerville OH 43082
US

90-21-55 (hex) HTC Corporation
902155 (base 16) HTC Corporation
No.23 Xinghua Road
Taoyuan County 330
TW

D8-B3-77 (hex) HTC Corporation
D8B377 (base 16) HTC Corporation
No. 23, Xinghua Rd.,
Taoyuan City 330
TW

B0-F1-A3 (hex) Fengfan (BeiJing)
Technology Co., Ltd.
B0F1A3 (base 16) Fengfan (BeiJing) Technology Co., Ltd.
Room518,Dianzichengdasha Town,No12,Jiuxianqiao Road
Beijing Chaoyang District 100016
CN

A4-D1-8C (hex) Apple, Inc.
A4D18C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

24-1E-EB (hex) Apple, Inc.
241EEB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

CC-25-EF (hex) Apple, Inc.
CC25EF (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

94-2C-B3 (hex) HUMAX Co., Ltd.
942CB3 (base 16) HUMAX Co., Ltd.
HUMAX Village, 216, Hwangsaeul-ro, Bu
Seongnam-si Gyeonggi-do 463-875
KR

B0-5A-DA (hex) Hewlett Packard
B05ADA (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

00-10-83 (hex) Hewlett Packard
001083 (base 16) Hewlett Packard
MAIL STOP 42LE
CUPERTINO CA 95014
US

88-CF-98 (hex) HUAWEI TECHNOLOGIES
CO.,LTD
88CF98 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

14-04-67 (hex) SNK Technologies Co.,Ltd.
140467 (base 16) SNK Technologies Co.,Ltd.
#1001, Byuksan Sunyoung Technopia, A-dong, 13
Ojeongongeop-gil, Uiwang-si, Gyeonggi-do 16072
KR

7C-B1-5D (hex) HUAWEI TECHNOLOGIES CO.,LTD
7CB15D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan Guangdong 523808
CN

00-26-5E (hex) Hon Hai Precision Ind. Co.,Ltd.
00265E (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

00-24-2C (hex) Hon Hai Precision Ind. Co.,Ltd.
00242C (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

80-30-DC (hex) Texas Instruments
8030DC (base 16) Texas Instruments
12500
TI Blvd
Dallas TX 75243
US

A4-D5-78 (hex) Texas Instruments
A4D578 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

24-60-81 (hex) razberi technologies
246081 (base 16) razberi technologies
13755 Hutton Drive Suite 500
Farmers Branch TX 75234
US

00-27-19 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
002719 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 7, Second Part, Honghualing Industrial Zone
Shenzhen Guangdong 518057
CN

40-16-9F (hex) TP-LINK TECHNOLOGIES CO.,LTD.
40169F (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
1-6F, Building 2, Pingshandayuan Industrial, South Zone,
Shenzhen Guangdong 518000
CN

F4-EC-38 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
F4EC38 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
1-6F, Building 2, Pingshandayuan Industrial, South Zone,
Shenzhen Guangdong 518000
CN

80-89-17 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
808917 (base 16) TP-LINK
TECHNOLOGIES CO.,LTD.
Building 24 (floors 1,3,4,5) and 28 (floors1-4)

Shennan Rd, Nanshan Shenzhen,Guangdong Province 518057
CN

A0-93-47 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
A09347 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,WUSHA,CHANG'AN,DONGGUAN,GUANGDONG,CHINA
DONGGUAN GUANGDONG 523860
CN

E8-BB-A8 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
E8BBA8 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,WUSHA,CHANG'AN,DONGGUAN,GUANGDONG,CHINA
DONGGUAN GUANGDONG 523860
CN

B0-AA-36 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
B0AA36 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD
DONGGUAN GUANGDONG 523860
CN

F8-0D-43 (hex) Hon Hai Precision Ind. Co.,Ltd.
F80D43 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing
Chongqing 401332
CN

38-F8-89 (hex) HUAWEI TECHNOLOGIES CO.,LTD
38F889 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D0-7A-B5 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D07AB5 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

90-4E-2B (hex) HUAWEI TECHNOLOGIES CO.,LTD
904E2B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

20-08-ED (hex) HUAWEI TECHNOLOGIES CO.,LTD
2008ED (base 16) HUAWEI TECHNOLOGIES CO.,LTD

No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

84-74-2A (hex) zte corporation
84742A (base 16) zte corporation
12/F.,zte R&D building,kejinan Road,
shenzhen guangdong 518057
CN

9C-D2-4B (hex) zte corporation
9CD24B (base 16) zte
corporation
12/F.,zte R&D building,kejinan Road,
shenzhen guangdong 518057
CN

C8-7B-5B (hex) zte corporation
C87B5B (base 16) zte corporation
12/F.,zte R&D building,kejinan Road,
shenzhen guangdong 518057
CN

00-19-C6 (hex) zte corporation
0019C6 (base 16) zte corporation
Technology Management Department,
Shenzhen Guangdong 518057
CN

00-1D-D9 (hex) Hon Hai Precision Ind. Co.,Ltd.
001DD9 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

00-07-D8 (hex) Hitron Technologies. Inc
0007D8 (base 16) Hitron Technologies. Inc
135-220 Hitron B/D 726-5
Seoul 13456
KR

C0-3E-0F (hex) SKY UK LIMITED
C03E0F (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

7C-4C-A5 (hex) SKY UK LIMITED

7C4CA5 (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

CC-4E-24 (hex) Brocade
Communications Systems LLC
CC4E24 (base 16) Brocade Communications Systems LLC
1320 Ridder Park Dr
San Jose CA 95131
US

90-F6-52 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
90F652 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24 (floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park,Shennan Rd, Nanshan,
Shenzhen Guangdong Province, 518057
CN

14-CF-92 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
14CF92 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24 (floors 1,3,4,5) and 28 (floors1-4)
shenzhen guangdong Province 518057
CN

20-DC-E6 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
20DCE6 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24 (floors 1,3,4,5) and 28 (floors1-4)
shenzhen guangdong Province 518057
CN

14-CC-20 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
14CC20 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24 (floors 1,3,4,5) and 28 (floors1-4)
Shennan Rd, Nanshan Shenzhen,Guangdong
Province 518057
CN

78-4B-87 (hex) Murata Manufacturing Co., Ltd.
784B87 (base 16) Murata Manufacturing Co., Ltd.
1-10-1,Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

E4-CE-02 (hex) WyreStorm Technologies Ltd
E4CE02 (base 16) WyreStorm Technologies Ltd
Tech Valley Park, 23 Wood Road
Round Lake New York 12151
GB

40-F3-08 (hex) Murata Manufacturing Co., Ltd.
40F308 (base 16) Murata Manufacturing Co., Ltd.
1-10-1 Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

00-19-7D (hex) Hon Hai Precision Ind. Co.,Ltd.
00197D (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

00-14-A4 (hex) Hon Hai Precision Ind. Co.,Ltd.
0014A4 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

78-DD-08 (hex) Hon Hai Precision Ind. Co.,Ltd.
78DD08 (base 16) Hon Hai Precision
Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

9C-D2-1E (hex) Hon Hai Precision Ind. Co.,Ltd.
9CD21E (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

00-E0-52 (hex) Brocade Communications Systems LLC
00E052 (base 16) Brocade Communications Systems LLC
1320 Ridder Park Dr
San Jose CA 95131
US

00-01-0F (hex) Brocade Communications Systems LLC
00010F (base 16) Brocade Communications Systems LLC
1320 Ridder Park Dr
San Jose CA 95131
US

08-00-88 (hex) Brocade Communications Systems LLC
080088 (base 16) Brocade Communications Systems LLC
1320 Ridder Park Dr
San Jose CA 95131

US

B4-30-52 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B43052 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

04-C0-6F (hex) HUAWEI
TECHNOLOGIES CO.,LTD
04C06F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate,Shiyan Baoan District,
Shenzhen Guangdong 518108
CN

20-2B-C1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
202BC1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate,Shiyan Baoan District,
Shenzhen Guangdong 518108
CN

54-A5-1B (hex) HUAWEI TECHNOLOGIES CO.,LTD
54A51B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate,Shiyan Baoan District,
Shenzhen Guangdong 518108
CN

00-25-68 (hex) HUAWEI TECHNOLOGIES CO.,LTD
002568 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate,Shiyan Baoan District,
Shenzhen Guangdong 518108
CN

78-1D-BA (hex) HUAWEI TECHNOLOGIES CO.,LTD
781DBA (base 16) HUAWEI TECHNOLOGIES CO.,LTD
HUAWEI
Industrial Base Bantian,Longgang
Shenzhen guangdong 518129
CN

00-25-9E (hex) HUAWEI TECHNOLOGIES CO.,LTD
00259E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
B1-7,Huawei Base,Bantian, Longgang District,ShenZhen,GuangDong,CHINA
ShenZhen GuangDong 518129
CN

34-75-C7 (hex) Avaya Inc
3475C7 (base 16) Avaya Inc

360 Mt Kemble Ave
Morristown NJ 07960
US

00-1B-4F (hex) Avaya Inc
001B4F (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

00-6B-8E (hex) Shanghai Feixun Communication Co.,Ltd.
006B8E (base 16) Shanghai Feixun Communication Co.,Ltd.
Building 90,No,4855,Guangfulin Road
shanghai Shanghai 201616
CN

D4-6A-A8 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D46AA8 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base,Bantian,Longgang,Shenzhen
Shenzhen 518129
CN

00-34-FE (hex) HUAWEI TECHNOLOGIES CO.,LTD
0034FE (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2
Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C8-51-95 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C85195 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

40-CB-A8 (hex) HUAWEI TECHNOLOGIES CO.,LTD
40CBA8 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate
Shenzhen GuangDong 518057
CN

D4-6E-5C (hex) HUAWEI TECHNOLOGIES CO.,LTD
D46E5C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate
Shenzhen GuangDong 518057
CN

80-D0-9B (hex) HUAWEI TECHNOLOGIES CO.,LTD

80D09B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

1C-8E-5C (hex) HUAWEI TECHNOLOGIES CO.,LTD
1C8E5C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road,
Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B8-BC-1B (hex) HUAWEI TECHNOLOGIES CO.,LTD
B8BC1B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

58-2A-F7 (hex) HUAWEI TECHNOLOGIES CO.,LTD
582AF7 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D4-B1-10 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D4B110 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base,Bantian,Longgang,Shenzhen
ShenZhen GuangDong 518129
CN

E4-68-A3 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E468A3 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base,Bantian,Longgang,Shenzhen
ShenZhen GuangDong 518129
CN

34-00-A3 (hex) HUAWEI TECHNOLOGIES CO.,LTD
3400A3 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base
Shenzhen Guangdong 518129
CN

FC-48-EF
(hex) HUAWEI TECHNOLOGIES CO.,LTD
FC48EF (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1-4,Huawei Industrial Base,Bantian,Longgang
ShenZhen GuangDong 518129
CN

70-7B-E8 (hex) HUAWEI TECHNOLOGIES CO.,LTD
707BE8 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1-4,Huawei Industrial Base,Bantian,Longgang
ShenZhen GuangDong 518129
CN

4C-1F-CC (hex) HUAWEI TECHNOLOGIES CO.,LTD
4C1FCC (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1-4,Huawei Industrial Base,Bantian,Longgang
ShenZhen GuangDong 518129
CN

4C-8B-EF (hex) HUAWEI TECHNOLOGIES CO.,LTD
4C8BEF (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park,
Shenzhen Guangdong 518057
CN

88-53-D4 (hex) HUAWEI TECHNOLOGIES CO.,LTD
8853D4 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate,Shiyan Baoan District
Shenzhen Guangdong 518057
CN

B0-AD-AA (hex) Avaya Inc
B0ADAA
(base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

B4-47-5E (hex) Avaya Inc
B4475E (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

BC-AD-AB (hex) Avaya Inc
BCADAB (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

FC-A8-41 (hex) Avaya Inc
FCA841 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960

US

24-D9-21 (hex) Avaya Inc
24D921 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

84-83-71 (hex) Avaya Inc
848371 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

50-06-AB (hex) Cisco Systems, Inc
5006AB (base 16) Cisco Systems, Inc
80 West Tasman Dr.
San Jose CA 94568
US

00-03-DD (hex) Comark Interactive Solutions
0003DD (base 16) Comark Interactive Solutions
93 West St.
Medfield MA 02052
US

00-50-53 (hex) Cisco Systems, Inc
005053 (base 16) Cisco
Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-50-50 (hex) Cisco Systems, Inc
005050 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-E0-A3 (hex) Cisco Systems, Inc
00E0A3 (base 16) Cisco Systems, Inc
170 WEST TASMAN DRIVE
SAN JOSE CA 95134-1706
US

00-E0-8F (hex) Cisco Systems, Inc
00E08F (base 16) Cisco Systems, Inc
170 WEST TASMAN DRIVE

SAN JOSE CA 95134-1706
US

00-18-68 (hex) Cisco SPVTG
001868 (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

88-75-56 (hex) Cisco Systems, Inc
887556 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

FC-99-47 (hex) Cisco Systems, Inc
FC9947 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

6C-20-56 (hex) Cisco Systems, Inc
6C2056 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San
Jose CA 95134
US

00-90-6D (hex) Cisco Systems, Inc
00906D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-90-AB (hex) Cisco Systems, Inc
0090AB (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-50-54 (hex) Cisco Systems, Inc
005054 (base 16) Cisco Systems, Inc
170 W. TASMAN DR.
SAN JOSE CA 95134-1706
US

00-50-0B (hex) Cisco Systems, Inc
00500B (base 16) Cisco Systems, Inc

170 W. TASMAN DR.
SAN JOSE CA 95134-1706
US

08-CC-68 (hex) Cisco Systems, Inc
08CC68 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

0C-27-24 (hex) Cisco Systems, Inc
0C2724 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

6C-41-6A (hex) Cisco Systems, Inc
6C416A (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

EC-E1-A9 (hex) Cisco
Systems, Inc
ECE1A9 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

AC-F2-C5 (hex) Cisco Systems, Inc
ACF2C5 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

24-01-C7 (hex) Cisco Systems, Inc
2401C7 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

68-86-A7 (hex) Cisco Systems, Inc
6886A7 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

6C-EC-EB (hex) Texas Instruments

6CECEB (base 16) Texas Instruments
12500 TI BLVD
Dallas 75243
US

24-71-89 (hex) Texas Instruments
247189 (base 16) Texas Instruments
12500 TI BLVD
Dallas 75243
US

98-7B-F3 (hex) Texas Instruments
987BF3 (base 16) Texas Instruments
12500 TI BLVD
Dallas 75243
US

A0-F6-FD (hex) Texas Instruments
A0F6FD (base 16) Texas Instruments
12500 TI BLVD
Dallas
75243
US

00-90-2B (hex) Cisco Systems, Inc
00902B (base 16) Cisco Systems, Inc
170 W. TASMAN DR.
SAN JOSE CA 95134-1706
US

78-A5-04 (hex) Texas Instruments
78A504 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

D0-B5-C2 (hex) Texas Instruments
D0B5C2 (base 16) Texas Instruments
12500 TI BLVD
Dallas 75243
US

74-5E-1C (hex) PIONEER CORPORATION
745E1C (base 16) PIONEER CORPORATION
1-1 Shin-ogura
Kawasaki-shi Kanagawa Prefecture 2120031
JP

00-10-11 (hex) Cisco Systems, Inc
001011 (base 16) Cisco Systems, Inc
170 WEST TASMAN DRIVE
SAN JOSE CA 95134-1706
US

3C-0E-23 (hex) Cisco Systems, Inc
3C0E23 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

00-E0-18 (hex) ASUSTek COMPUTER INC.
00E018 (base 16) ASUSTek COMPUTER INC.
150 LI-TE RD.
PEITOU, TAIPEI 77777
TW

00-0C-6E (hex) ASUSTek COMPUTER
INC.
000C6E (base 16) ASUSTek COMPUTER INC.
150, Li-Te Rd., PeiTou
Taipei 112
TW

00-0E-A6 (hex) ASUSTek COMPUTER INC.
000EA6 (base 16) ASUSTek COMPUTER INC.
150, Li-Te Rd., PeiTou
Taipei 112
TW

00-23-BE (hex) Cisco SPVTG
0023BE (base 16) Cisco SPVTG
5030 Sugarloaf Pkwy
Lawrenceville GA 30044
US

18-59-33 (hex) Cisco SPVTG
185933 (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

44-58-29 (hex) Cisco SPVTG
445829 (base 16) Cisco SPVTG
5030 Sugarloaf Pkwy
Lawrenceville GA 30044
US

60-2A-D0 (hex) Cisco SPVTG
602AD0 (base 16) Cisco SPVTG
5030 Sugarloaf Pkwy
Lawrenceville GA 30044
US

88-1D-FC (hex) Cisco Systems, Inc
881DFC (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

1C-E8-5D (hex) Cisco Systems, Inc
1CE85D (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA
95134
US

A8-9D-21 (hex) Cisco Systems, Inc
A89D21 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

90-E6-BA (hex) ASUSTek COMPUTER INC.
90E6BA (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd.,Peitou,Taipei 112 ,Taiwan
Taipei Taiwan 112
TW

F4-6D-04 (hex) ASUSTek COMPUTER INC.
F46D04 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd.,Peitou,
Taipei 112
TW

6C-FA-89 (hex) Cisco Systems, Inc
6CFA89 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

F4-4E-05 (hex) Cisco Systems, Inc
F44E05 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134

US

68-9C-E2 (hex) Cisco Systems, Inc
689CE2 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

A0-F8-49 (hex) Cisco Systems, Inc
A0F849 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

C0-67-AF
(hex) Cisco Systems, Inc
C067AF (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

C0-25-5C (hex) Cisco Systems, Inc
C0255C (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

00-1D-60 (hex) ASUSTek COMPUTER INC.
001D60 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd.,Peitou
Taipei 112
TW

00-15-F2 (hex) ASUSTek COMPUTER INC.
0015F2 (base 16) ASUSTek COMPUTER INC.
No.5 Shing Yeh Street,Kwei Shan Hsiang,Taoyuan
Taipei 333
TW

28-CF-E9 (hex) Apple, Inc.
28CFE9 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-A0-40 (hex) Apple, Inc.
00A040 (base 16) Apple, Inc.
1 Infinite Loop

Cupertino CA 95014
US

AC-7E-8A (hex) Cisco Systems, Inc
AC7E8A (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

04-62-73 (hex) Cisco Systems, Inc
046273 (base 16) Cisco Systems,
Inc
170 West Tasman Drive
San Jose CA 95134
US

CC-08-E0 (hex) Apple, Inc.
CC08E0 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-B4-79 (hex) Apple, Inc.
F0B479 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

10-93-E9 (hex) Apple, Inc.
1093E9 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

44-2A-60 (hex) Apple, Inc.
442A60 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-00-0C (hex) Cisco Systems, Inc
00000C (base 16) Cisco Systems, Inc
170 WEST TASMAN DRIVE
SAN JOSE CA 95134-1706
US

D8-B1-90 (hex) Cisco Systems, Inc
D8B190 (base 16) Cisco Systems, Inc

170 West Tasman Drive
San Jose CA 95134
US

80-E8-6F (hex) Cisco Systems, Inc
80E86F (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

00-21-E9 (hex) Apple, Inc.
0021E9 (base 16) Apple,
Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-26-08 (hex) Apple, Inc.
002608 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-26-B0 (hex) Apple, Inc.
0026B0 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-26-BB (hex) Apple, Inc.
0026BB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C8-2A-14 (hex) Apple, Inc.
C82A14 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

3C-07-54 (hex) Apple, Inc.
3C0754 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A4-B1-97 (hex) Apple, Inc.

A4B197 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-30-65 (hex) Apple, Inc.
003065 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-14-51 (hex) Apple, Inc.
001451 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-1E-52
(hex) Apple, Inc.
001E52 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D4-9A-20 (hex) Apple, Inc.
D49A20 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F8-1E-DF (hex) Apple, Inc.
F81EDF (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A4-D1-D2 (hex) Apple, Inc.
A4D1D2 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

28-CF-DA (hex) Apple, Inc.
28CFDA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

04-54-53 (hex) Apple, Inc.
045453 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

3C-D0-F8 (hex) Apple, Inc.
3CD0F8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

68-09-27 (hex) Apple, Inc.
680927 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

6C-C2-6B (hex) Apple, Inc.
6CC26B (base 16) Apple, Inc.
1
Infinite Loop
Cupertino CA 95014
US

94-94-26 (hex) Apple, Inc.
949426 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

20-7D-74 (hex) Apple, Inc.
207D74 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F4-F1-5A (hex) Apple, Inc.
F4F15A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C8-6F-1D (hex) Apple, Inc.
C86F1D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

30-90-AB (hex) Apple, Inc.
3090AB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

8C-2D-AA (hex) Apple, Inc.
8C2DAA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

84-85-06 (hex) Apple, Inc.
848506 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

98-FE-94 (hex) Apple, Inc.
98FE94 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D8-00-4D (hex) Apple,
Inc.
D8004D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

54-26-96 (hex) Apple, Inc.
542696 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

64-A3-CB (hex) Apple, Inc.
64A3CB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

30-F7-C5 (hex) Apple, Inc.
30F7C5 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

40-B3-95 (hex) Apple, Inc.
40B395 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

44-FB-42 (hex) Apple, Inc.
44FB42 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E8-8D-28 (hex) Apple, Inc.
E88D28 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C8-B5-B7 (hex) Apple, Inc.
C8B5B7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

90-B2-1F (hex) Apple, Inc.
90B21F (base 16) Apple, Inc.
1 Infinite
Loop
Cupertino CA 95014
US

B8-E8-56 (hex) Apple, Inc.
B8E856 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D8-96-95 (hex) Apple, Inc.
D89695 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

44-D8-84 (hex) Apple, Inc.
44D884 (base 16) Apple, Inc.
1 Infinite Loop

Cupertino CA 95014
US

64-20-0C (hex) Apple, Inc.
64200C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C8-33-4B (hex) Apple, Inc.
C8334B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

64-E6-82 (hex) Apple, Inc.
64E682 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F4-F9-51 (hex) Apple, Inc.
F4F951 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C0-63-94 (hex) Apple, Inc.
C06394 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

18-AF-8F (hex) Apple, Inc.
18AF8F
(base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

14-99-E2 (hex) Apple, Inc.
1499E2 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B4-18-D1 (hex) Apple, Inc.
B418D1 (base 16) Apple, Inc.

1 Infinite Loop
Cupertino CA 95014
US

9C-20-7B (hex) Apple, Inc.
9C207B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B0-65-BD (hex) Apple, Inc.
B065BD (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

50-D5-9C (hex) Thai Habel Industrial Co., Ltd.
50D59C (base 16) Thai Habel Industrial Co., Ltd.
3/1 - 3/3 RAMA 3 RD,
Bangkholaem Bangkok 10120
TH

6C-4A-39 (hex) BITA
6C4A39 (base 16) BITA
6/F, New Century Hotel Office Tower
BEI JING 100044
CN

84-7D-50 (hex) Holley Metering Limited
847D50 (base 16) Holley Metering Limited
181 Wuchang Avenue
Hangzhou Zhejiang 310023
CN

A0-99-9B
(hex) Apple, Inc.
A0999B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

24-24-0E (hex) Apple, Inc.
24240E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

90-3C-92 (hex) Apple, Inc.

903C92 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D8-1D-72 (hex) Apple, Inc.
D81D72 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

34-12-98 (hex) Apple, Inc.
341298 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

70-E7-2C (hex) Apple, Inc.
70E72C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

70-EC-E4 (hex) Apple, Inc.
70ECE4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D8-BB-2C (hex) Apple, Inc.
D8BB2C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D0-4F-7E (hex) Apple, Inc.
D04F7E (base 16) Apple, Inc.
1
Infinite Loop
Cupertino CA 95014
US

9C-F3-87 (hex) Apple, Inc.
9CF387 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A8-5B-78 (hex) Apple, Inc.
A85B78 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-DB-F8 (hex) Apple, Inc.
F0DBF8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

48-74-6E (hex) Apple, Inc.
48746E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

54-AE-27 (hex) Apple, Inc.
54AE27 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C8-F6-50 (hex) Apple, Inc.
C8F650 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

FC-E9-98 (hex) Apple, Inc.
FCE998 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

0C-BC-9F (hex) Apple, Inc.
0CBC9F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

34-36-3B
(hex) Apple, Inc.
34363B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D0-A6-37 (hex) Apple, Inc.
D0A637 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

78-9F-70 (hex) Apple, Inc.
789F70 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

20-78-F0 (hex) Apple, Inc.
2078F0 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E0-AC-CB (hex) Apple, Inc.
E0ACCB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

68-AE-20 (hex) Apple, Inc.
68AE20 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

AC-87-A3 (hex) Apple, Inc.
AC87A3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A8-8E-24 (hex) Apple, Inc.
A88E24 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

30-52-CB (hex) Liteon Technology Corporation
3052CB (base 16) Liteon
Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585

TW

04-96-45 (hex) WUXI SKY CHIP INTERCONNECTION TECHNOLOGY CO.,LTD.
049645 (base 16) WUXI SKY CHIP INTERCONNECTION TECHNOLOGY CO.,LTD.
Building F12, China Sensor Network International Innovation park,200# Linghu Avenue,Wuxi.
WUXI Jiangsu 214135
CN

1C-CD-E5 (hex) Shanghai Wind Technologies Co.,Ltd
1CCDE5 (base 16) Shanghai Wind Technologies Co.,Ltd
Room 208,Section A, Building 3#, No.7 GuiQing Road, Xuhui District, Shanghai, China(Headquarter)
Shanghai Shanghai 200233
CN

88-C2-42 (hex) Poynt Co.
88C242 (base 16) Poynt Co.
490 S. California Avenue
Palo Alto California 94306
US

DC-82-F6 (hex) iPort
DC82F6 (base 16) iPort
236 Calle Pintoresco
San Clemente CA 92672
US

50-A9-DE (hex) Smartcom - Bulgaria AD
50A9DE (base 16) Smartcom - Bulgaria AD
BIC IZOT, Building 1, Floor 3, Office 317
Sofia Sofia
1784
BG

E0-34-E4 (hex) Feit Electric Company, Inc.
E034E4 (base 16) Feit Electric Company, Inc.
4901 Gregg Road
Pico Rivera CA 90660
US

34-C9-F0 (hex) LM Technologies Ltd
34C9F0 (base 16) LM Technologies Ltd
Unit 19 Spectrum House
London England NW5 1LP
GB

68-14-01 (hex) Hon Hai Precision Ind. Co.,Ltd.
681401 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road

Chongqing Chongqing 401332
CN

AC-1F-D7 (hex) Real Vision Technology Co.,Ltd.
AC1FD7 (base 16) Real Vision Technology Co.,Ltd.
A-805, 537, Dunchon-daero, Jungwon-gu
Seongnam-si Gyeonggi-do 13216
KR

68-A8-28 (hex) HUAWEI TECHNOLOGIES CO.,LTD
68A828 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

CC-20-E8 (hex) Apple, Inc.
CC20E8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

14-02-EC
(hex) Hewlett Packard Enterprise
1402EC (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

E8-DE-D6 (hex) Intrising Networks, Inc.
E8DED6 (base 16) Intrising Networks, Inc.
8F., No.67, Shitan Rd., Neihu Dist., Taipei City 11469
Taipei
TW

DC-DC-07 (hex) TRP Systems BV
DCDC07 (base 16) TRP Systems BV
Televisieweg 159 1322 BH Almere
Almere - -
NL

38-91-D5 (hex) Hangzhou H3C Technologies Co., Limited
3891D5 (base 16) Hangzhou H3C Technologies Co., Limited
466 Changhe Road, Binjiang District
Hangzhou Zhejiang, P.R.China 310052
CN

8C-E2-DA (hex) Circle Media Inc
8CE2DA (base 16) Circle Media Inc

1319 SE Martin Luther King Jr. Blvd.
Portland Oregon 97214
US

48-9A-42 (hex) Technomate Ltd
489A42 (base 16) Technomate Ltd
Unit 11 Nobel Road
London N18 3BH
GB

BC-9C-31 (hex) HUAWEI TECHNOLOGIES CO.,LTD
BC9C31 (base 16) HUAWEI
TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

70-48-0F (hex) Apple, Inc.
70480F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

3C-B7-2B (hex) PLUMgrid Inc
3CB72B (base 16) PLUMgrid Inc
5155 OLD IRONSIDES DR
Santa Clara CA 95054
US

D8-8B-4C (hex) KingTing Tech.
D88B4C (base 16) KingTing Tech.
8 Holly St
Irvine California 92612
US

48-BF-74 (hex) Baicells Technologies Co.,LTD
48BF74 (base 16) Baicells Technologies Co.,LTD
10F,Dinghao Electronics Plaza-B,No.3 Haidian St.,Haidian Dist.,Beijing,China
Beijing Beijing 10080
CN

6C-93-54 (hex) Yaojin Technology (Shenzhen) Co., LTD.
6C9354 (base 16) Yaojin Technology (Shenzhen) Co., LTD.
No.18,Zhulong Tian Road,Shuitian No.4 Industrial Area,Shiyan Street, Baoan District,Shenzhen,China
Shenzhen Guangdong 518108
CN

F0-B0-E7 (hex) Apple, Inc.

F0B0E7
(base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

20-D1-60 (hex) Private
20D160 (base 16) Private

38-21-87 (hex) Midea Group Co., Ltd.
382187 (base 16) Midea Group Co., Ltd.
No. 6 Midea Avenue,
Foshan Guangdong 528311
CN

78-D6-B2 (hex) Toshiba
78D6B2 (base 16) Toshiba
2-9,Suehiro-Cho
Ome Tokyo 1988710
JP

04-69-F8 (hex) Apple, Inc.
0469F8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

AC-89-95 (hex) AzureWave Technology Inc.
AC8995 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

38-1C-23 (hex) Hilan Technology CO.,LTD
381C23 (base 16) Hilan Technology CO.,LTD
604,Block 1,Kai Da Er Building,No.168 TongSha Road,XiLi Town,Nanshan,Shenzhen,P.R.C
Shenzhen Guandong 518055
CN

20-C3-A4 (hex) RetailNext
20C3A4 (base 16) RetailNext
60 S. Market St, 10th Floor
San Jose
CA 95113
US

38-4C-90 (hex) ARRIS Group, Inc.
384C90 (base 16) ARRIS Group, Inc.

6450 Sequence Drive
San Diego CA 92121
US

64-9A-12 (hex) P2 Mobile Technologies Limited
649A12 (base 16) P2 Mobile Technologies Limited
Unit 708, 7/F, Bio-Informatics Centre, No.2 Science Park West Avenue,
Hong Kong Hong Kong 00000
HK

E4-C2-D1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E4C2D1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

30-29-BE (hex) Shanghai MRDcom Co.,Ltd
3029BE (base 16) Shanghai MRDcom Co.,Ltd
NO.123 JULI RD
SHANGHAI PUDONG ZHANGJIANG HIGH-TECH PARK 201203
CN

D4-F4-BE (hex) Palo Alto Networks
D4F4BE (base 16) Palo Alto Networks
3000 Tannery Way
Santa Clara CA 95054
US

48-B6-20 (hex) ROLI Ltd.
48B620 (base 16) ROLI Ltd.
2 Glebe Road
London E8 4BD
GB

20-55-31 (hex) Samsung Electronics
Co.,Ltd
205531 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

30-7C-B2 (hex) ANOV FRANCE
307CB2 (base 16) ANOV FRANCE
100 CHEMIN DE BAILLOT
MONTAUBAN TARN ET GARONNE 82000
FR

84-79-73 (hex) Shanghai Baud Data Communication Co.,Ltd.

847973 (base 16) Shanghai Baud Data Communication Co.,Ltd.
NO.123 JULI RD
PUDONG ZHANGJIANG HIGH-TECH PARK SHANGHAI 201203
CN

E8-B4-C8 (hex) Samsung Electronics Co.,Ltd
E8B4C8 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D0-87-E2 (hex) Samsung Electronics Co.,Ltd
D087E2 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F0-5B-7B (hex) Samsung Electronics Co.,Ltd
F05B7B (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D8-88-CE (hex) RF Technology Pty Ltd
D888CE (base 16) RF Technology
Pty Ltd
46/7 Sefton Rd
Thornleigh NSW 2120
AU

7C-FE-90 (hex) Mellanox Technologies, Inc.
7CFE90 (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway, Suite 100
Sunnyvale CA 94085
US

60-FD-56 (hex) WOORISYSTEMS CO., Ltd
60FD56 (base 16) WOORISYSTEMS CO., Ltd
357-4, Neungpyeong-ri, Opo-eup
Gwangjiu-si Gyeonggi-do 464-921
KR

90-6F-A9 (hex) NANJING PUTIAN TELECOMMUNICATIONS TECHNOLOGY CO.,LTD.
906FA9 (base 16) NANJING PUTIAN TELECOMMUNICATIONS TECHNOLOGY CO.,LTD.
No.1 Putian Road,Yuhuamenwai,Nanjing
Nan Jing Jiang Su 210022
CN

84-5B-12 (hex) HUAWEI TECHNOLOGIES CO.,LTD
845B12 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B0-47-BF (hex) Samsung Electronics Co.,Ltd
B047BF (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

7C-0B-C6 (hex) Samsung Electronics
Co.,Ltd
7C0BC6 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

98-70-E8 (hex) INNATECH SDN BHD
9870E8 (base 16) INNATECH SDN BHD
2, JALAN TIARA 3, TIARA SQUARE
SUBANG JAYA SELANGOR 47600
MY

44-65-6A (hex) Mega Video Electronic(HK) Industry Co., Ltd
44656A (base 16) Mega Video Electronic(HK) Industry Co., Ltd
Room 503, No.43 Fushun Street, Huanghai West Road,
Dalian Liaoning 116600
CN

78-EB-39 (hex) Instituto Nacional de Tecnología Industrial
78EB39 (base 16) Instituto Nacional de Tecnología Industrial
Av. Gral. Paz 5445
San Martín Buenos Aires 1650
AR

CC-5F-BF (hex) Topwise 3G Communication Co., Ltd.
CC5FBF (base 16) Topwise 3G Communication Co., Ltd.
6 Floor, A8 Music Building, Keyuan Road, High-Tech Park, Nanshan District, Shenzhen, China
Shenzhen Guangdong 518000
CN

E0-2C-B2 (hex) Lenovo Mobile Communication (Wuhan) Company Limited
E02CB2
(base 16) Lenovo Mobile Communication (Wuhan) Company Limited
No.19, Gaoxin 4th Road, Wuhan East Lake High-tech Zone, Wuhan, China 430205
Wuhan Hubei 430205

CN

D4-7B-B0 (hex) ASKEY COMPUTER CORP
D47BB0 (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585
TW

F0-22-4E (hex) Esan electronic co.
F0224E (base 16) Esan electronic co.
D&I Building 2nd floor
Gun-Po Kyunggido 435-862
KR

C8-F9-C8 (hex) NewSharp Technology(SuZhou)Co,Ltd
C8F9C8 (base 16) NewSharp Technology(SuZhou)Co,Ltd
1st/f.building 7th No.328 XingHu street SuZhou City
SuZhou City JiangSu Province 215123
CN

A8-A7-95 (hex) Hon Hai Precision Ind. Co.,Ltd.
A8A795 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

10-86-8C (hex) ARRIS Group, Inc.
10868C (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San
Diego CA 92121
US

0C-75-6C (hex) Anaren Microwave, Inc.
0C756C (base 16) Anaren Microwave, Inc.
6635 Kirkville Road
East Syracuse NY 13057
US

44-FD-A3 (hex) Everysight LTD.
44FDA3 (base 16) Everysight LTD.
Advanced Technology Center P.O.B 539
Haifa Haifa 31053
IL

54-40-AD (hex) Samsung Electronics Co.,Ltd
5440AD (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong

Gumi Gyeongbuk 730-350
KR

14-5A-83 (hex) Logi-D inc
145A83 (base 16) Logi-D inc
5550 Des Rossignol Blvd
Laval Quebec H7L 5W6
CA

54-CD-10 (hex) Panasonic Mobile Communications Co.,Ltd.
54CD10 (base 16) Panasonic Mobile Communications Co.,Ltd.
600 Saedo-cho Tsuzuki-ku
Yokohama City Kanagawa 224-8539
JP

68-ED-A4 (hex) Shenzhen Seavo Technology Co.,Ltd
68EDA4 (base 16) Shenzhen Seavo Technology Co.,Ltd
5H,West Building,NO.210,Terra Hi-Tech Industrial Park,
Shenzhen Guangdong 518040
CN

2C-C5-D3
(hex) Ruckus Wireless
2CC5D3 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

80-C5-E6 (hex) Microsoft Corporation
80C5E6 (base 16) Microsoft Corporation
1 Microsoft Way
Redmond Washington 98052
FI

60-6D-C7 (hex) Hon Hai Precision Ind. Co.,Ltd.
606DC7 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

10-DF-8B (hex) Shenzhen CareDear Communication Technology Co.,Ltd
10DF8B (base 16) Shenzhen CareDear Communication Technology Co.,Ltd
No.605,6th floor, 1st Section, 25th Building, Science and Technology Park Industrial Zone, median space, High-tech Zone
ShenZhen Guangdong 518000
CN

80-4E-81 (hex) Samsung Electronics Co.,Ltd

804E81 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C4-12-F5 (hex) D-Link International
C412F5 (base 16) D-Link International
1
Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

FC-E1-FB (hex) Array Networks
FCE1FB (base 16) Array Networks
1371 McCarthy Blvd
Milpitas California 95035
US

E8-91-20 (hex) Motorola Mobility LLC, a Lenovo Company
E89120 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

D4-F9-A1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D4F9A1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

48-06-6A (hex) Tempered Networks, Inc.
48066A (base 16) Tempered Networks, Inc.
100 West Harrison St
Seattle WA 98119
US

BC-F8-11 (hex) Xiamen DNAKE Technology Co.,Ltd
BCF811 (base 16) Xiamen DNAKE Technology Co.,Ltd
5F,Xingtel Building,Chuangxin Rd.
Xiamen Fujian 361006
CN

D0-C0-BF (hex) Actions Microelectronics Co., Ltd
D0C0BF (base
16) Actions Microelectronics Co., Ltd
201, No 9 Building, Software Park,Kejizhonger Rd.,
Shenzhen Gangdong 518057
CN

FC-8F-90 (hex) Samsung Electronics Co.,Ltd
FC8F90 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

A4-24-DD (hex) Cambrionix Ltd
A424DD (base 16) Cambrionix Ltd
St Johns Innovation Centre
Cambridge Cambridgeshire CB4 0WS
GB

90-0A-39 (hex) Wiio, Inc.
900A39 (base 16) Wiio, Inc.
99 S. Almaden Boulevard
San Jose California 95113
US

74-04-2B (hex) Lenovo Mobile Communication (Wuhan) Company Limited
74042B (base 16) Lenovo Mobile Communication (Wuhan) Company Limited
No.19, Gaoxin 4th Road, Wuhan East Lake High-tech Zone, Wuhan, China 430205
Wuhan Hubei 430205
CN

D0-5C-7A (hex) Sartura d.o.o.
D05C7A (base 16) Sartura d.o.o.
Kuniscak 28
Zagreb 10000
HR

BC-5C-4C (hex) ELECOM CO.,LTD.
BC5C4C (base
16) ELECOM CO.,LTD.
2F Kudan First Place Bldg. 4-1-28
Chiyoda-ku Kudan Kita 102-0073
JP

44-80-EB (hex) Motorola Mobility LLC, a Lenovo Company
4480EB (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

F8-7A-EF (hex) Rosonix Technology, Inc.
F87AEF (base 16) Rosonix Technology, Inc.
10F, No.235, Sec. 4, Chengde Rd.,
Taipei Taiwan 11167

TW

20-28-BC (hex) Visionscape Co,. Ltd.
2028BC (base 16) Visionscape Co,. Ltd.
503, 145, Gasan Digital 1-ro, Geumcheon-gu,
Seoul Korea 153-787
KR

58-70-C6 (hex) Shanghai Xiaoyi Technology Co., Ltd.
5870C6 (base 16) Shanghai Xiaoyi Technology Co., Ltd.
Shanghai Zhangjiang hi-tech park of Pudong New Area
Shanghai Shanghai 201120
CN

64-16-7F (hex) Polycom
64167F (base 16) Polycom
6001 America Center Drive
San Jose CA 95002
US

C0-9A-71 (hex) XIAMEN MEITU MOBILE TECHNOLOGY
CO.LTD
C09A71 (base 16) XIAMEN MEITU MOBILE TECHNOLOGY CO.LTD
1-3F, Block2, No.6 Wanghai Rd,Siming District, Xiamen, Fujian, China (”MEITU”)
Xiamen Fujian 361008
CN

34-0B-40 (hex) MIOS ELETTRONICA SRL
340B40 (base 16) MIOS ELETTRONICA SRL
VIA ARCHIMEDE, 10
SAN MARTINO B.A. (VR) VERONA 37036
IT

24-1C-04 (hex) SHENZHEN JEHE TECHNOLOGY DEVELOPMENT CO., LTD.
241C04 (base 16) SHENZHEN JEHE TECHNOLOGY DEVELOPMENT CO., LTD.
2/F, Block A, Tsinghua Information Harbor, North Section
Shenzhen Guangdong 518057
CN

88-70-33 (hex) Hangzhou Silan Microelectronic Inc
887033 (base 16) Hangzhou Silan Microelectronic Inc
No.4 HuangGuShan Road
Hangzhou Zhejiang 310012
CN

DC-56-E6 (hex) Shenzhen Bococom Technology Co.,LTD
DC56E6 (base 16) Shenzhen Bococom Technology Co.,LTD
303, Dongjiang Environmental Build, LangShan Road.

Shenzhen Guangdong 518000
CN

14-41-46 (hex) Honeywell (China) Co., LTD
144146
(base 16) Honeywell (China) Co., LTD
No. 100, Zunyi Road, Changning District
Shanghai Shanghai 200051
CN

CC-96-35 (hex) LVS Co.,Ltd.
CC9635 (base 16) LVS Co.,Ltd.
SmartValley B # 801
Incheon 406-840
KR

40-28-14 (hex) RFI Engineering
402814 (base 16) RFI Engineering
Markerkant 13-76
Almere Flevoland 1314AN
NL

E8-61-BE (hex) Melec Inc.
E861BE (base 16) Melec Inc.
516-10 Higashiasakawamachi
Hachioji Tokyo 193-0834
JP

C4-8E-8F (hex) Hon Hai Precision Ind. Co.,Ltd.
C48E8F (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

54-36-9B (hex) 1Verge Internet Technology (Beijing) Co., Ltd.
54369B (base 16) 1Verge Internet Technology (Beijing) Co., Ltd.
5th Floor, Sinosteel International Plaza
Haidian District Beijing
CN

50-50-2A (hex) Egardia
50502A (base 16) Egardia
Kleine Landtong 19
Gorinchem
Zuid Holland 4201 HL
NL

94-F1-9E (hex) HUIZHOU MAORONG INTELLIGENT TECHNOLOGY CO.,LTD

94F19E (base 16) HUIZHOU MAORONG INTELLIGENT TECHNOLOGY CO.,LTD
China Guangdong Huizhou
Huizhou Guangdong 516000
CN

B8-56-BD (hex) ITT LLC
B856BD (base 16) ITT LLC
1-ya Brestkaya St, building 35
Moscow 125047
RU

C4-92-4C (hex) KEISOKUKI CENTER CO.,LTD.
C4924C (base 16) KEISOKUKI CENTER CO.,LTD.
2-6-7 SAKANE
KAWANISHI-CITY HYOGO 666-0021
JP

74-9C-E3 (hex) KodaCloud Canada, Inc
749CE3 (base 16) KodaCloud Canada, Inc
Suite 310
Ottawa Ontario K2K3G4
CA

40-62-B6 (hex) Tele system communication
4062B6 (base 16) Tele system communication
5F, No.437, Tao Ying Rd
Taoyuan 33068
TW

60-12-8B (hex) CANON INC.
60128B (base 16) CANON INC.
30-2 Shimomaruko 3-chome,
Ohta-ku Tokyo 146-8501
JP

84-C3-E8 (hex) Vaillant GmbH
84C3E8 (base 16) Vaillant GmbH
Berghauser
Straße 40
Remscheid NRW D-42859
DE

40-A5-EF (hex) Shenzhen Four Seas Global Link Network Technology Co., Ltd.
40A5EF (base 16) Shenzhen Four Seas Global Link Network Technology Co., Ltd.
Room 607-610, Block B, TAOJINDI Electronic Business Incubation Base
Tenglong Road, Longhua District, Shenzhen Guangdong 518000
CN

A8-9F-BA (hex) Samsung Electronics Co.,Ltd
A89FBA (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

9C-D3-5B (hex) Samsung Electronics Co.,Ltd
9CD35B (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D4-55-56 (hex) Fiber Mountain Inc.
D45556 (base 16) Fiber Mountain Inc.
700 W Johnson Ave
Cheshire CT 06410
US

4C-A5-15 (hex) Baikal Electronics JSC
4CA515 (base 16) Baikal Electronics JSC
Highway Baltic 26 km, BC 'RigaLand, Block B, 3-rd entrance, 2-nd floor.
Krasnogorsk district Moscow
region 143421
RU

7C-3C-B6 (hex) Shenzhen Homecare Technology Co.,Ltd.
7C3CB6 (base 16) Shenzhen Homecare Technology Co.,Ltd.
Homecare Industrial Zone,NO.30,Langdong road,Yangchuan,Songgang Town,Bao'an Distric ,
Shenzhen Guangdong 5108105
CN

1C-7D-22 (hex) FUJIFILM Business Innovation Corp.
1C7D22 (base 16) FUJIFILM Business Innovation Corp.
6-1 Minatomirai, Nishi-ku
Yokohama Kanagawa 220-8668
JP

B8-8E-C6 (hex) Stateless Networks
B88EC6 (base 16) Stateless Networks
388 Market Street
San Francisco CA 94111
US

BC-D1-65 (hex) Cisco SPVTG
BCD165 (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

28-E4-76 (hex) Pi-Coral
28E476 (base 16) Pi-Coral
2130 Gold Street, Ste. 200
San Jose CA - California 95002
US

48-86-E8 (hex) Microsoft Corporation
4886E8 (base 16) Microsoft Corporation
1 Microsoft Way
Redmond Washington 98052
FI

74-A3-4A
(hex) ZIMI CORPORATION
74A34A (base 16) ZIMI CORPORATION
Room A913, 159 Chengjiang Road, Jiangyin City, Jiangsu Province, P, R.China
214400
CN

20-C0-6D (hex) SHENZHEN SPACETEK TECHNOLOGY CO.,LTD
20C06D (base 16) SHENZHEN SPACETEK TECHNOLOGY CO.,LTD
3F, NO.2, ChaXiSanWei Industrial Park, Gushu Community, XiXiang Street, BaoAn District
ShenZhen GuangDong 518100

74-96-37 (hex) Todaair Electronic Co., Ltd
749637 (base 16) Todaair Electronic Co., Ltd
F.6 Electronic Building, No.1 Shuinan Guangdeli RoadPeng'Jiang District, Jiangmen, Guangdong, China
JiangMen Guangdong 529000
CN

2C-AD-13 (hex) SHENZHEN ZHILU TECHNOLOGY CO.,LTD
2CAD13 (base 16) SHENZHEN ZHILU TECHNOLOGY CO.,LTD
B2-402 Kexin Science Park, Keyuan Road, Hi-tech Park, Nanshan District, Shenzhen
shenzhen Guangdong 518052
CN

78-AC-BF (hex) Igneous Systems
78ACBF (base 16) Igneous Systems
2401 4th Ave
Seattle WA 98121
US

40-D2-8A
(hex) Nintendo Co., Ltd.
40D28A (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU

KYOTO KYOTO 601-8501
JP

88-E6-03 (hex) Avotek corporation
88E603 (base 16) Avotek corporation
9-17, Dongil-ro 174-gil, Nowon-gu, Seoul
Seoul Seoul 139-808
KR

DC-60-A1 (hex) Teledyne DALSA Professional Imaging
DC60A1 (base 16) Teledyne DALSA Professional Imaging
High Tech Campus 27
Eindhoven NB 5656 AE
NL

68-28-F6 (hex) Vubiq Networks, Inc.
6828F6 (base 16) Vubiq Networks, Inc.
9231 Irvine Blvd.
Irvine California 92618
US

10-A6-59 (hex) Mobile Create Co.,Ltd.
10A659 (base 16) Mobile Create Co.,Ltd.
Kakukita 2-20-8
Oita 870-0848
JP

58-85-6E (hex) QSC AG
58856E (base 16) QSC AG
Mathias-Brueggen-Str. 55
Köln 50829
DE

EC-59-E7 (hex) Microsoft Corporation
EC59E7 (base 16) Microsoft Corporation
1 Microsoft Way
Redmond
Washington 98052
FI

C0-35-C5 (hex) Prosoft Systems LTD
C035C5 (base 16) Prosoft Systems LTD
Volgogradskaya 194-a
Ekaterinburg Sverdlovskay 620102
RU

A0-A3-E2 (hex) Actiontec Electronics, Inc
A0A3E2 (base 16) Actiontec Electronics, Inc

3301 Olcott St.
Santa Clara CA 95054
US

74-54-7D (hex) Cisco SPVTG
74547D (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

D0-5B-A8 (hex) zte corporation
D05BA8 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

E4-BA-D9 (hex) 360 Fly Inc.
E4BAD9 (base 16) 360 Fly Inc.
1000 Town Center Blvd
Canonsburg PA 15317
US

10-C6-7E (hex) SHENZHEN JUCHIN TECHNOLOGY CO., LTD
10C67E (base 16) SHENZHEN JUCHIN TECHNOLOGY CO., LTD
Unit 423 4/B NO.1, Central Business District
Shenzhen Guangdong 518000
CN

00-E6-E8 (hex) Netzin Technology Corporation,.Ltd.
00E6E8
(base 16) Netzin Technology Corporation,.Ltd.
4F-17, No. 26, Lane 321, Yang-Kuang St.,Neihu District, Taipei, Taiwan,
Taiwan Taipei Taiwan Taipei 11491
TW

50-F4-3C (hex) Leeo Inc
50F43C (base 16) Leeo Inc
989 Comercial St
Palo Alto CA 94303
US

E8-87-A3 (hex) Loxley Public Company Limited
E887A3 (base 16) Loxley Public Company Limited
102 Na Ranong Road, Klongtoey,
Bangkok 10110
TH

8C-91-09 (hex) Toyoshima Electric Technoeogy(Suzhou) Co.,Ltd.

8C9109 (base 16) Toyoshima Electric Technoeogy(Suzhou) Co.,Ltd.
No.399,Baisheng Road,Jinxi Town
Kunshan Jiangsu 215324
CN

54-09-8D (hex) deister electronic GmbH
54098D (base 16) deister electronic GmbH
Hermann-Bahlsen-Str. 11
Barsinghausen Niedersachsen 30890
DE

D8-CB-8A (hex) Micro-Star INTL CO., LTD.
D8CB8A (base 16) Micro-Star INTL CO., LTD.
No.69, Lide St.,
New Taipei City Taiwan 235
TW

08-EB-29
(hex) Jiangsu Huitong Group Co.,Ltd.
08EB29 (base 16) Jiangsu Huitong Group Co.,Ltd.
No. 24, Block 2, Taohuawu New District
Zhenjiang Jiangsu 212003
CN

08-A5-C8 (hex) Sunnovo International Limited
08A5C8 (base 16) Sunnovo International Limited
1717 Haitai Building
Beijing Beijing 100083
CN

A8-64-05 (hex) nimbus 9, Inc
A86405 (base 16) nimbus 9, Inc
29 W. Cimarron St.
Colorado Springs CO 80903
US

D4-61-32 (hex) Pro Concept Manufacturer Co.,Ltd.
D46132 (base 16) Pro Concept Manufacturer Co.,Ltd.
88/1 Moo12 Soi Phetkasem120
Kratumbaen Samutsakorn 74130
TH

54-A0-50 (hex) ASUSTek COMPUTER INC.
54A050 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

BC-6B-4D (hex) Nokia
BC6B4D (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

C8-D0-19 (hex) Shanghai Tigercel Communication Technology Co.,Ltd
C8D019
(base 16) Shanghai Tigercel Communication Technology Co.,Ltd
Room 805, building 1
Shanghai 200235
CN

84-86-F3 (hex) Greenvity Communications
8486F3 (base 16) Greenvity Communications
673 S. Milpitas Blvd Suite 204
Milpitas California 95035
US

58-10-8C (hex) Intelbras
58108C (base 16) Intelbras
BR 101, km 210, S/N°
São José Santa Catarina 88104800
BR

2C-37-96 (hex) CYBO CO.,LTD.
2C3796 (base 16) CYBO CO.,LTD.
218 MOO 3 LAEM CHA BANG
SRIRACHA CHONBURI 20230
TH

58-7F-B7 (hex) SONAR INDUSTRIAL CO., LTD.
587FB7 (base 16) SONAR INDUSTRIAL CO., LTD.
29, 29/1, 29/2, MOO.3, THATALAD,
SAMPRAN NAKORN PATHOM 73110
TH

F8-84-79 (hex) Yaojin Technology(Shenzhen)Co.,Ltd
F88479 (base 16) Yaojin Technology(Shenzhen)Co.,Ltd
Yaojin Park, Shui Tian No.4 Industrial Area ShiYan Tow,
SHENZHEN GUANGDONG 518108
CN

90-21-81 (hex) Shanghai Huaqin Telecom Technology Co.,Ltd
902181
(base 16) Shanghai Huaqin Telecom Technology Co.,Ltd
No.1 Building,399 Keyuan Road, Zhangjian Hi-Tech Park,
shanghai shanghai 201203

CN

84-96-81 (hex) Cathay Communication Co.,Ltd
849681 (base 16) Cathay Communication Co.,Ltd
Tsinghua Institude A319 of Hi-tech Park,Nanshan district,Shenzhen China
Shenzhen Canton 0755
CN

2C-A3-0E (hex) POWER DRAGON DEVELOPMENT LIMITED
2CA30E (base 16) POWER DRAGON DEVELOPMENT LIMITED
Room D, 10/F Tower A, Billion Centre, 1 Wang Kwong Road, Kowloon Bay
HONG KONG HONG KONG 999077
CN

2C-29-97 (hex) Microsoft Corporation
2C2997 (base 16) Microsoft Corporation
1 Microsoft Way
Redmond Washington 98052
FI

90-8C-09 (hex) Total Phase
908C09 (base 16) Total Phase
735 Palomar Ave
Sunnyvale CA 94085
US

4C-2C-83 (hex) Zhejiang KaNong Network Technology Co.,Ltd.
4C2C83 (base 16) Zhejiang KaNong Network Technology Co.,Ltd.
Room 633, Building B,
ShunFan Technology Park,JingChang Road No.768, YuHang District
Hangzhou Zhejiang 310000
CN

4C-74-03 (hex) BQ
4C7403 (base 16) BQ
c Sofía 10. Polígono Europolis
Las Rozas de Madrid Madrid 28230
ES

8C-5D-60 (hex) UCI Corporation Co.,Ltd.
8C5D60 (base 16) UCI Corporation Co.,Ltd.
299/195-7, Chaengwattana Road,
Bangkok Bangkok 10210
TH

DC-2F-03 (hex) Step forward Group Co., Ltd.
DC2F03 (base 16) Step forward Group Co., Ltd.
1/3 Park Village Rama2 Floor 2 C2-2

Bangkok Bangkok 10150
TH

38-0E-7B (hex) V.P.S. Thai Co., Ltd
380E7B (base 16) V.P.S. Thai Co., Ltd
279-281 Mangkorn Rd., Pomprab District
Bangkok Bangkok 10100
TH

40-9B-0D (hex) Shenzhen Yourf Kwan Industrial Co., Ltd
409B0D (base 16) Shenzhen Yourf Kwan Industrial Co., Ltd
MCN Edifice 5D, R1 Building, No.21 4th Hi-tech Road South, High-tech Industrial Park(south)
Shenzhen Guangdong 518057
CN

70-FC-8C (hex) OneAccess
SA
70FC8C (base 16) OneAccess SA
381 avenue du général de Gaulle
CLAMART France 92140
FR

80-F8-EB (hex) RayTight
80F8EB (base 16) RayTight
Room 1-216, Building 25, No 9, Anningzhuang West Road
Haidian District Beijing 100085
CN

D4-37-D7 (hex) zte corporation
D437D7 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

2C-1A-31 (hex) Electronics Company Limited
2C1A31 (base 16) Electronics Company Limited
Units 12,15&16,8/F,Metro Centre 2
Kowloon Bay HongKong 852
CN

20-12-D5 (hex) Scientech Materials Corporation
2012D5 (base 16) Scientech Materials Corporation
No.7, Hejiang 2nd Rd., Chungli , Taoyuan Hsien 320, Taiwan
Taoyuan Hsien Chungli 320
TW

6C-6E-FE (hex) Core Logic Inc.
6C6EFE (base 16) Core Logic Inc.

11th Fl., 1-B U-SPACE Bldg.
Seongnam Gyeonggi-do 463-400
KR

38-08-FD (hex) Silca
Spa
3808FD (base 16) Silca Spa
Via Podgora, 20 (Z.I.)
Vittorio Veneto TV 31029
IT

2C-01-0B (hex) NASCENT Technology, LLC - RemKon
2C010B (base 16) NASCENT Technology, LLC - RemKon
2744 Yorkmont Road
Charlotte NC 28208

04-DE-DB (hex) Rockport Networks Inc
04DEDB (base 16) Rockport Networks Inc
515 Legget Dr., Suite 600
Kanata ON K2K 3G4
CA

1C-48-40 (hex) IMS Messsysteme GmbH
1C4840 (base 16) IMS Messsysteme GmbH
Dieselstr. 55
Heiligenhaus NRW D-42579
DE

54-DF-00 (hex) Ulterius Technologies, LLC
54DF00 (base 16) Ulterius Technologies, LLC
1625 N. Waterfront Parkway
Wichita KS 67206
US

20-ED-74 (hex) Ability enterprise co.,Ltd.
20ED74 (base 16) Ability enterprise co.,Ltd.
4F., No.8, Ln.7, Wuquan Rd, Wugu Dist, New Taipei City 24886, Taiwan(R.O.C)
Taipei Taipei 24886
TW

14-48-8B (hex) Shenzhen Doov Technology Co.,Ltd
14488B (base 16) Shenzhen
Doov Technology Co.,Ltd
11st Floor,East,2nd Phase
Futian District, Shenzhen Guangdong 518040
CN

1C-52-16 (hex) DONGGUAN HELE ELECTRONICS CO., LTD
1C5216 (base 16) DONGGUAN HELE ELECTRONICS CO., LTD
Lijiangwei Group,
Dongguan City Guangdong 86
CN

94-CE-31 (hex) CTS Limited
94CE31 (base 16) CTS Limited
1st district, 23D, 21
Moscow - 142784
RU

78-45-61 (hex) CyberTAN Technology Inc.
784561 (base 16) CyberTAN Technology Inc.
99 Park Ave III, Hsinchu Science Park
Hsinchu 308
TW

60-99-D1 (hex) Vuzix / Lenovo
6099D1 (base 16) Vuzix / Lenovo
2166 Brighton Henrietta Town Line Road
Rochester NY 14623
US

B0-45-15 (hex) mira fitness,LLC.
B04515 (base 16) mira fitness,LLC.
1925 West Field Court Suite100
Lake Forest IL 60045
US

60-50-C1 (hex) Kinetek Sports
6050C1 (base 16) Kinetek Sports
16885 Via Del Campo Ct.
San Diego Ca 92127
US

90-B6-86
(hex) Murata Manufacturing Co., Ltd.
90B686 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

EC-D9-D1 (hex) Shenzhen TG-NET Botone Technology Co.,Ltd.
ECD9D1 (base 16) Shenzhen TG-NET Botone Technology Co.,Ltd.
East F/3,No.38 Huarong Second Industry Zone
Shenzhen Guangdong 518109
CN

6C-02-73 (hex) Shenzhen Jin Yun Video Equipment Co., Ltd.
6C0273 (base 16) Shenzhen Jin Yun Video Equipment Co., Ltd.
4th floor, 78th, Matou Road
Shenzhen Guangdong 518000
CN

28-29-CC (hex) Corsa Technology Incorporated
2829CC (base 16) Corsa Technology Incorporated
505 March Road
Ottawa Ontario K2K 3A4
CA

E8-5D-6B (hex) Luminate Wireless
E85D6B (base 16) Luminate Wireless
20823 Stevens Creek Blvd, Suite 300
Cupertino CA 95014
US

94-AE-E3 (hex) Belden Hirschmann Industries (Suzhou) Ltd.
94AEE3 (base 16) Belden Hirschmann Industries (Suzhou)
Ltd.
333 Yanhu Road, Huaqiao Town
Kunshan Jiangsu 215332
CN

A0-56-B2 (hex) Harman/Becker Automotive Systems GmbH
A056B2 (base 16) Harman/Becker Automotive Systems GmbH
Becker-Göring-Straße 16
Karlsbad Baden-Württemberg 76307
DE

44-66-6E (hex) IP-LINE
44666E (base 16) IP-LINE
#204, Gangseo B/D
Guro-gu Seoul 152-826
KR

5C-B6-CC (hex) NovaComm Technologies Inc.
5CB6CC (base 16) NovaComm Technologies Inc.
902A, #560 Shengxia Rd., ZJ Inno Park
Shanghai 201203
CN

70-5B-2E (hex) M2Communication Inc.
705B2E (base 16) M2Communication Inc.
Room 12, 18F., No.65, Gaotie 7th Road
Zhubei City Hsinchu County 302

TW

5C-15-15 (hex) ADVAN
5C1515 (base 16) ADVAN
Wisma SMR.JL.Yos Sudarso Kav 89,Lt8.Suite 804,Jakarta Utara 10730
Jakarta Jakarta Utara
ID

24-4F-1D (hex) iRule LLC
244F1D (base 16) iRule LLC
1555 Broadway St
Detroit MI 48226
US

B4-0A-C6
(hex) DEXON Systems Ltd.
B40AC6 (base 16) DEXON Systems Ltd.
Baross u. 165
Budaors Pest H-2040
HU

D0-59-E4 (hex) Samsung Electronics Co.,Ltd
D059E4 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

14-A3-64 (hex) Samsung Electronics Co.,Ltd
14A364 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

50-FE-F2 (hex) Sify Technologies Ltd
50FEF2 (base 16) Sify Technologies Ltd
II floor, TIDEL Park,
chennai Tamilnadu 600113
IN

48-1A-84 (hex) Pointer Telocation Ltd
481A84 (base 16) Pointer Telocation Ltd
14 Hamelacha Street,
Rosh Ha’ayin Israel 48091
IL

DC-66-3A (hex) Apacer Technology Inc.
DC663A (base 16) Apacer Technology Inc.
1F., No.32, Zhongcheng Rd., Tucheng Dist.,

New Taipei City Taiwan R.O.C. 236
TW

08-DF-1F (hex) Bose Corporation
08DF1F (base 16) Bose Corporation
The Mountain
Framingham
MA 01701-9168
US

18-4A-6F (hex) Alcatel-Lucent Shanghai Bell Co., Ltd
184A6F (base 16) Alcatel-Lucent Shanghai Bell Co., Ltd
No. 389, Ningqiao Road, Pudong Jinqiao
Shanghai 201206
CN

34-C5-D0 (hex) Hagleitner Hygiene International GmbH
34C5D0 (base 16) Hagleitner Hygiene International GmbH
Lunastrasse 5
Zell am See Salzburg 5700
AT

10-C3-7B (hex) ASUSTek COMPUTER INC.
10C37B (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

58-1F-67 (hex) Open-m technology limited
581F67 (base 16) Open-m technology limited
logan century buildding ,No.23 of Hai xiu road
Shenzhen Guangdong 518000
CN

A0-12-DB (hex) TABUCHI ELECTRIC CO.,LTD
A012DB (base 16) TABUCHI ELECTRIC CO.,LTD
4-2-21
OSAKA 532-0003
JP

B4-0B-44 (hex) Smartisan Technology Co., Ltd.
B40B44 (base 16) Smartisan Technology Co., Ltd.
7/F, Motorola
Bldg., 1st Wangjing East Rd,
Beijing 100102
CN

34-31-C4 (hex) AVM GmbH

3431C4 (base 16) AVM GmbH
Alt-Moabit 95
Berlin Berlin 10559
DE

48-26-E8 (hex) Tek-Air Systems, Inc.
4826E8 (base 16) Tek-Air Systems, Inc.
41 Eagle Road
Danbury CT 06810
US

D0-5A-F1 (hex) Shenzhen Pulier Tech CO.,Ltd
D05AF1 (base 16) Shenzhen Pulier Tech CO.,Ltd
3rd Floor, NO. B Buliding, District A, Shajing minzhu jiujiu industrial park , Shenzhen, China
Shenzhen Guangdong 518104
CN

FC-E1-86 (hex) A3M Co., LTD
FCE186 (base 16) A3M Co., LTD
KeumJeong Highview 2F #205,
Gunpo Gyeonggi 435-845
KR

54-EF-92 (hex) Shenzhen Elink Technology Co., LTD
54EF92 (base 16) Shenzhen Elink Technology Co., LTD
A531, Famous, No 168 Bao Yuan Road,
Shenzhen Guangdong 518000
CN

70-30-5D (hex) Ubiquoss Inc
70305D (base 16) Ubiquoss Inc
8F Ubiquoss B/D, 68, Pangyo-ro 255beon-gil, Bundang-gu
Seongnam-si
Gyeonggi-do 463-400
KR

54-C8-0F (hex) TP-LINK TECHNOLOGIES CO.,LTD.
54C80F (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

E4-D3-32 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
E4D332 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

EC-E5-12 (hex) tado GmbH
ECE512 (base 16) tado GmbH
Lindwurmstr. 76
Munich Bavaria 80337
DE

30-91-8F (hex) Technicolor Delivery Technologies Belgium NV
30918F (base 16) Technicolor Delivery Technologies Belgium NV
Prins Boudewijnlaan 47
Edegem - Belgium B-2650
BE

5C-F4-AB (hex) Zyxel Communications Corporation
5CF4AB (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu
Taiwan 300
TW

08-B2-A3 (hex) Cynny Italia S.r.L.
08B2A3 (base 16) Cynny Italia S.r.L.
Via delle Mantellate, 8
Firenze FI 59021
IT

A0-DA-92 (hex) Nanjing Glarun Atten Technology Co. Ltd.
A0DA92 (base 16) Nanjing Glarun Atten Technology Co. Ltd.
Dinghuai men No. 1, Gulou District

CN

40-B3-CD (hex) Chiyoda Electronics Co.,Ltd.
40B3CD (base 16) Chiyoda Electronics Co.,Ltd.
1-3-11 Nishiki-cho
Warabi Saitama
JP

24-33-6C (hex) Private
24336C (base 16) Private

D4-CF-F9 (hex) Shenzhen SEI Robotics Co.,Ltd
D4CFF9 (base 16) Shenzhen SEI Robotics Co.,Ltd
501,Productivity Building A, #5 Hi-Tech Middle 2nd Road
Shenzhen Guangdong 518057
CN

48-82-44 (hex) Life Fitness / Div. of Brunswick
488244 (base 16) Life Fitness / Div. of Brunswick

10601 W. Belmont Ave
Franklin Park IL 60131
US

C8-31-68 (hex) eZEX corporation
C83168 (base 16) eZEX corporation
Rm 508,
Ssangyong IT Twin-Tower II, 442-5
Seongnam-si Gyeonggi-do 462-120
KR

0C-20-26 (hex) noax Technologies AG
0C2026 (base 16) noax Technologies AG
Am Forst 6
Ebersberg 85560
DE

28-65-6B (hex) Keystone Microtech Corporation
28656B (base 16) Keystone Microtech Corporation
9F., No.255, Dong Sec. 1,
Jhubei City, Hsinchu County 302
TW

CC-9F-35 (hex) Transbit Sp. z o.o.
CC9F35 (base 16) Transbit Sp. z o.o.
Przyczolkowa 109A
Warsaw 02-968
PL

F0-3F-F8 (hex) R L Drake
F03FF8 (base 16) R L Drake
1 Jake Brown Road
Old Bridge NJ 08857
US

B0-C5-54 (hex) D-Link International
B0C554 (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

20-25-64 (hex) PEGATRON CORPORATION
202564 (base 16) PEGATRON CORPORATION
5F No. 76, Ligong St., Beitou District
Taipei City Taiwan 112
TW

C8-D5-90 (hex) FLIGHT DATA

SYSTEMS
C8D590 (base 16) FLIGHT DATA SYSTEMS
31 MCGREGORS DRIVE
KEILOR PARK VICTORIA 3042
AU

7C-FF-62 (hex) Huizhou Super Electron Technology Co.,Ltd.
7CFF62 (base 16) Huizhou Super Electron Technology Co.,Ltd.
10F,Financial Tower,No.23,Xiapu Road
Huizhou City Guangdong Province 516001
CN

28-3B-96 (hex) Cool Control LTD
283B96 (base 16) Cool Control LTD
Mivtahim 2
Petah Tikva Israel 4951774
IL

64-8D-9E (hex) IVT Electronic Co.,Ltd
648D9E (base 16) IVT Electronic Co.,Ltd
F building Dongxing Insdustrial Area
Dongguan City Guangdong provice 523457
CN

C0-9D-26 (hex) Topicon HK Lmd.
C09D26 (base 16) Topicon HK Lmd.
302, 3F, Lee Loong Building
Central Hong Kong 0000
US

44-29-38 (hex) NietZsche enterprise Co.Ltd.
442938 (base 16) NietZsche enterprise Co.Ltd.
4F. No.560 Sec2 Chung Shan Rd.
New Taipei City Taiwan R.O.C Taipei (/) 220
TW

EC-F7-2B (hex) HD
DIGITAL TECH CO., LTD.
ECF72B (base 16) HD DIGITAL TECH CO., LTD.
Room 602, Baoyuan road, Banan District
Shenzhen Guangdong 518102
US

4C-F4-5B (hex) Blue Clover Devices
4CF45B (base 16) Blue Clover Devices
1001 Bayhill Dr
San Bruno CA 94066
US

B0-69-71 (hex) DEI Sales, Inc.
B06971 (base 16) DEI Sales, Inc.
1 Viper Way
Vista CA 92081
US

F8-F0-05 (hex) Newport Media Inc.
F8F005 (base 16) Newport Media Inc.
1 Spectrum Pointe Drive Suite 225
Lake Forest CA 92630
US

1C-FC-BB (hex) Realfiction ApS
1CFCBB (base 16) Realfiction ApS
Oester Alle 42, 5
Copenhagen OE 2100
DK

5C-25-4C (hex) Avire Global Pte Ltd
5C254C (base 16) Avire Global Pte Ltd
8 Admiralty Street
Singapore 757438
SG

D4-2F-23 (hex) Akenori PTE Ltd
D42F23 (base 16) Akenori PTE Ltd
176 Joo Chiat Road, #02-02
Singapore 427447
SG

9C-3E-AA (hex) EnvyLogic Co.,Ltd.
9C3EAA
(base 16) EnvyLogic Co.,Ltd.
#605,Gwanyang Doosan Ven Digm B/D
Anyang-si Gyeonggi-do 431-810
KR

14-C0-89 (hex) DUNE HD LTD
14C089 (base 16) DUNE HD LTD
2F., No.297, Sec. 2, Tiding Blvd.,
Taipei 11493
TW

F4-B6-E5 (hex) TerraSem Co.,Ltd
F4B6E5 (base 16) TerraSem Co.,Ltd
9,Gwahaksaneop 5-ro
Cheongwon-Gu ChungBuk 363-885

KR

A8-81-F1 (hex) BMEYE B.V.
A881F1 (base 16) BMEYE B.V.
Hoogoorddreef 60
Amsterdam 1101BE
NL

D0-69-D0 (hex) Verto Medical Solutions, LLC
D069D0 (base 16) Verto Medical Solutions, LLC
900 Spruce St., Suite 550
St. Louis Missouri 63012
US

C4-E9-84 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
C4E984 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

48-EE-86 (hex) UTStarcom (China) Co.,Ltd
48EE86 (base 16) UTStarcom (China)
Co.,Ltd
25 Floor,A Block,1#Building,TianZuo International Center,
Haidian District BeiJing 100081
CN

CC-95-D7 (hex) Vizio, Inc
CC95D7 (base 16) Vizio, Inc
39 Tesla
Irvine CA 92618
US

FC-09-F6 (hex) GUANGDONG TONZE ELECTRIC CO.,LTD
FC09F6 (base 16) GUANGDONG TONZE ELECTRIC CO.,LTD
No.12-12 Block,Jinyuan Industrical City,Chaoshan Road,Shantou,Guangdong,china
Shantou Guangdong 515021
CN

BC-F6-1C (hex) Geomodeling Wuxi Technology Co. Ltd.
BCF61C (base 16) Geomodeling Wuxi Technology Co. Ltd.
Room1708, 17/F, North Star Times Tower, No.8 BeiChen East Road
Beijing 100101
CN

08-6D-F2 (hex) Shenzhen MIMOWAVE Technology Co.,Ltd
086DF2 (base 16) Shenzhen MIMOWAVE Technology Co.,Ltd

Shenzhen Guangdong 518172
CN

98-C0-EB (hex) Global Regency Ltd
98C0EB (base 16) Global Regency Ltd
20F, Phase A, Wenjin Plaza,
Shen Zhen Guangdong 518000
CN

D0-9C-30 (hex) Foster Electric
Company, Limited
D09C30 (base 16) Foster Electric Company, Limited
1-1-109, Tsutsujigaoka
Akishima Tokyo 196-8550
JP

94-9F-3F (hex) Optek Digital Technology company limited
949F3F (base 16) Optek Digital Technology company limited
Room508 Build A, Shennan Garden, Shenzhen Science and Industry Park, Nanshan
Shenzhen GuangDong 518057
CN

E8-17-FC (hex) Fujitsu Cloud Technologies Limited
E817FC (base 16) Fujitsu Cloud Technologies Limited
JR Kawasaki Tower, 1-5, Omiyacho, Saiwai-ku
Kawasaki-shi Kanagawa-ken, 212-0014
JP

78-FE-E2 (hex) Shanghai Diveo Technology Co., Ltd
78FEE2 (base 16) Shanghai Diveo Technology Co., Ltd
No.8,Lane 777,LongWu Rd
Shanghai 200232
CN

44-48-91 (hex) HDMI Licensing, LLC
444891 (base 16) HDMI Licensing, LLC
1140 East Arques, Suite 100
Sunnyvale CA 94085
US

FC-92-3B (hex) Nokia Corporation
FC923B (base 16) Nokia Corporation
Joensuunkatu
7
Salo N.A. 24101
FI

E0-3F-49 (hex) ASUSTek COMPUTER INC.

E03F49 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

88-A7-3C (hex) Ragentek Technology Group
88A73C (base 16) Ragentek Technology Group
D10/D11, No.3188, Xiupu Road
Shanghai 201315
CN

88-D9-62 (hex) Canopus Systems US LLC
88D962 (base 16) Canopus Systems US LLC
Nasa Ames Research Park
Moffett Field CALIFORNIA 94035
US

68-78-48 (hex) WESTUNITIS CO., LTD.
687848 (base 16) WESTUNITIS CO., LTD.
29F Grand Front Osaka Tower-A, 4-20, Ofukacho,
Osaka Kita-ku 530-0011
JP

48-D0-CF (hex) Universal Electronics, Inc.
48D0CF (base 16) Universal Electronics, Inc.
201 E. Sandpointe Ave
Santa Ana CA 92707
US

DC-C7-93 (hex) Nokia Corporation
DCC793 (base 16) Nokia Corporation
Joensuunkatu 7
Salo N.A. 24101
FI

1C-EE-E8 (hex) Ilshin Elecom
1CEEE8
(base 16) Ilshin Elecom
2973, Hagun-ri, Yangchon-eup
Gimpo-si Gyeonggi-do 415-843
KR

60-21-03 (hex) I4VINE, INC
602103 (base 16) I4VINE, INC
TLI Building 6th floor, 195
Seongnam-si Gyeonggi-do 462-100
KR

FC-07-A0 (hex) LRE Medical GmbH
FC07A0 (base 16) LRE Medical GmbH
Hofer Strasse 5
Noerdlingen Bavaria 86720
DE

FC-13-49 (hex) Global Apps Corp.
FC1349 (base 16) Global Apps Corp.
12F., No 225, Sec. 5 Nanjing E. Rd
Taipei 105
TW

84-84-33 (hex) Paradox Engineering SA
848433 (base 16) Paradox Engineering SA
Via Passeggiata, 7
Novazzano Ticino 6883
CH

44-C3-06 (hex) SIFROM Inc.
44C306 (base 16) SIFROM Inc.
1201 N. Orange St., Ste 700 #7112
Wilmington DE 19801-1186
US

60-FF-DD (hex) C.E. ELECTRONICS, INC
60FFDD (base 16) C.E. ELECTRONICS, INC
2107 INDUSTRIAL DR
BRYAN OHIO 43506
US

24-05-0F (hex) MTN Electronic Co. Ltd
24050F (base
16) MTN Electronic Co. Ltd
MTN Industrial Park,No 3, Fuhua Road,
Shenzhen Guangdong Province 518117
CN

AC-2D-A3 (hex) TXTR GmbH
AC2DA3 (base 16) TXTR GmbH
Rosenthaler Str. 13
Berlin 10119
DE

88-9C-A6 (hex) BTB Korea INC
889CA6 (base 16) BTB Korea INC
#1001, Suntech City 1st
Sungnam Kyunggido 462-725
KR

90-83-7A (hex) General Electric Water & Process Technologies
90837A (base 16) General Electric Water & Process Technologies
6060 Spine Road
Boulder Colorado 80301-3687
US

A4-3A-69 (hex) Vers Inc
A43A69 (base 16) Vers Inc
PO Box 5265
Wayland MA 01778
US

B0-D7-C5 (hex) Logipix Ltd
B0D7C5 (base 16) Logipix Ltd
Kesmark utca 11-13
Budapest - 1158
HU

90-31-CD (hex) Onyx Healthcare Inc.
9031CD (base 16) Onyx Healthcare Inc.
2F ,No135, Lane235,
New Taipei City 231
TW

E4-81-84 (hex) Nokia
E48184 (base 16) Nokia
600 March Road
Kanata
Ontario K2K 2E6
CA

2C-5A-05 (hex) Nokia Corporation
2C5A05 (base 16) Nokia Corporation
Joensuunkatu 7
Salo N.A. 24101
FI

D4-81-CA (hex) iDevices, LLC
D481CA (base 16) iDevices, LLC
136 Simsbury, Rd
Avon CT 06001
US

D8-58-D7 (hex) CZ.NIC, z.s.p.o.
D858D7 (base 16) CZ.NIC, z.s.p.o.
Americka 23
Prague 12000

CZ

4C-D9-C4 (hex) Magneti Marelli Automotive Electronics (Guangzhou) Co. Ltd
4CD9C4 (base 16) Magneti Marelli Automotive Electronics (Guangzhou) Co. Ltd
Building B10, No.8 Jinghu Road
Guangzhou Guangdong 510800
CN

0C-54-A5 (hex) PEGATRON CORPORATION
0C54A5 (base 16) PEGATRON CORPORATION
5F No. 76, Ligong St., Beitou District
Taipei City Taiwan 112
TW

8C-4D-B9 (hex) Unmonday Ltd
8C4DB9 (base 16) Unmonday Ltd
Laivakatu 3
Helsinki Uusimaa 00150
FI

80-BA-E6 (hex) Neets
80BAE6 (base 16) Neets
Langballe 4
Horsens Jylland
8700
DK

88-89-14 (hex) All Components Incorporated
888914 (base 16) All Components Incorporated
828 New Meister Lane
Pflugerville TX 78660
US

F0-32-1A (hex) Mita-Teknik A/S
F0321A (base 16) Mita-Teknik A/S
Aktieselskabet af 12.12.2006
Roedkaersbro 8840
DK

9C-44-A6 (hex) SwiftTest, Inc.
9C44A6 (base 16) SwiftTest, Inc.
3255 Scott Blvd.
Santa Clara California 95054
US

B0-24-F3 (hex) Progeny Systems
B024F3 (base 16) Progeny Systems
9500 Innovation Drive

Manassas VA 20110
US

F8-A2-B4 (hex) RHEWA-WAAGENFABRIK August Freudewald GmbH &Co. KG
F8A2B4 (base 16) RHEWA-WAAGENFABRIK August Freudewald GmbH &Co. KG
Feldstr. 17
Mettmann 40822
DE

78-CA-5E (hex) ELNO
78CA5E (base 16) ELNO
43 rue Michel Carré
Argenteuil - F95102
US

A0-3B-1B (hex) Inspire Tech
A03B1B (base 16) Inspire Tech
No.588-10,Zhongzheng Rd.,Xinzhuang Dist
New Taipei
Taiwan 24255
TW

7C-CD-3C (hex) Guangzhou Juzing Technology Co., Ltd
7CCD3C (base 16) Guangzhou Juzing Technology Co., Ltd
Building C Rm 1906-1909
Guangzhou Guangdong 510630
US

10-B2-6B (hex) base Co.,Ltd.
10B26B (base 16) base Co.,Ltd.
F1 92 building taoyuancun longzhu road
Shenzhen Guangdong 518000
CN

4C-F0-2E (hex) Vifa Denmark A/S
4CF02E (base 16) Vifa Denmark A/S
Mariendalsvej 2A
Viborg DK-8800
US

B4-82-7B (hex) AKG Acoustics GmbH
B4827B (base 16) AKG Acoustics GmbH
Lemboeckgasse 21-25
Vienna 1230
AT

DC-5E-36 (hex) Paterson Technology
DC5E36 (base 16) Paterson Technology

23490 SE 51st Pl
Issaquah WA 98029
US

50-E0-C7 (hex) TurControlSystme AG
50E0C7 (base 16) TurControlSystme AG
Geschwister-Scholl-Strasse 7
Genthin Sachsen-Anhalt 39307
DE

DC-AD-9E (hex) GreenPriz
DCAD9E (base 16) GreenPriz
549, boulevard Pierre Sauvaigo
La
Colle sur Loup 06480
FR

B8-DF-6B (hex) SpotCam Co., Ltd.
B8DF6B (base 16) SpotCam Co., Ltd.
12F.-1, No.125, Jianguo Rd.
New Taipei City 239
TW

9C-88-88 (hex) Simac Techniek NV
9C8888 (base 16) Simac Techniek NV
De Run 1101
Veldhoven NB 5503LB
NL

04-1A-04 (hex) WaveIP
041A04 (base 16) WaveIP
1 Sky street
Misgav 20179
IL

34-A5-E1 (hex) Sensorist ApS
34A5E1 (base 16) Sensorist ApS
Nyhavn 16
Copenhagen K Sjaelland 1051
DK

18-C8-E7 (hex) Shenzhen Hualistone Technology Co.,Ltd
18C8E7 (base 16) Shenzhen Hualistone Technology Co.,Ltd
1708RM,Huafeng HQ Economic Building,
Shenzhen Guangdong 518102
CN

7C-6A-B3 (hex) IBC TECHNOLOGIES INC.

7C6AB3 (base 16) IBC TECHNOLOGIES INC.
1445 CHARLES STREET
Vancouver British Columbia V5L2S7
CA

84-56-9C (hex) Coho Data, Inc.,
84569C (base 16) Coho Data, Inc.,
1230 Midas Way, Suite 110
Sunnyvale
CA 94085
US

78-AE-0C (hex) Far South Networks
78AE0C (base 16) Far South Networks
49 Bell Crescent
Westlake Western Cape 7945
ZA

84-A7-83 (hex) Alcatel Lucent
84A783 (base 16) Alcatel Lucent
Via Energy Park, 14
Vimercate MB 20871
IT

E0-56-F4 (hex) AxesNetwork Solutions inc.
E056F4 (base 16) AxesNetwork Solutions inc.
410 pepin
Sherbrooke qc j1l2y8
CA

08-CA-45 (hex) Toyou Feiji Electronics Co., Ltd.
08CA45 (base 16) Toyou Feiji Electronics Co., Ltd.
No.2 Building No.9 Yard, Dijin Road,
Beijing 100095
CN

3C-CA-87 (hex) Iders Incorporated
3CCA87 (base 16) Iders Incorporated
27047 Oakwood Rd
Oakbank Manitoba R0E 1J2
CA

18-1B-EB (hex) Actiontec Electronics, Inc
181BEB (base 16) Actiontec Electronics, Inc
3301 Olcott St.
Santa Clara CA 95054
US

98-43-DA (hex) INTERTECH
9843DA (base 16) INTERTECH
3F. 14-9 Sarihyun-Ro. Ilsandong-Gu
Goyang-Si
Gyeonggi-Do 410-821
KR

78-D9-9F (hex) NuCom HK Ltd.
78D99F (base 16) NuCom HK Ltd.
Unit B 11/F, Eton Bldg, 288 Des Voeux Rd. Central
Hong Kong Hong Kong 00852
CN

14-2B-D2 (hex) Armtel Ltd.
142BD2 (base 16) Armtel Ltd.
33A Smolenskaya str.
St. Petersburg 196084
RU

9C-A1-0A (hex) SCLE SFE
9CA10A (base 16) SCLE SFE
Parc des Aygalades – Bat 10
MARSEILLE PACA 13014
FR

88-78-9C (hex) Game Technologies SA
88789C (base 16) Game Technologies SA
Plac W. Andersa 3
Poznan 61894
PL

68-76-4F (hex) Sony Corporation
68764F (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

38-DB-BB (hex) Sunbow Telecom Co., Ltd.
38DBBB (base 16) Sunbow Telecom Co., Ltd.
3F, 501-21, Chung Cheng Rd., Hsin Tien Dist.
New Taipei City 23148
TW

44-8A-5B (hex) Micro-Star INT'L CO., LTD.
448A5B (base 16) Micro-Star INT'L CO., LTD.
No69, LIde
St.
Taipei 235

TW

0C-CB-8D (hex) ASCO Numatics GmbH
0CCB8D (base 16) ASCO Numatics GmbH
Otto-Hahn-Str. 7-11
Oelbronn-Duerrn 75248
DE

90-79-90 (hex) Benchmark Electronics Romania SRL
907990 (base 16) Benchmark Electronics Romania SRL
Aeroportului no 6 Ghimbav
Brasov 507075
US

7C-BD-06 (hex) AE REFUsol
7CBD06 (base 16) AE REFUsol
Uracher Str. 91
Metzingen Baden-Wurttemberg 72555
DE

94-BA-56 (hex) Shenzhen Coship Electronics Co., Ltd.
94BA56 (base 16) Shenzhen Coship Electronics Co., Ltd.
Rainbow Bldg., North, Hi-Tech Industrial Park
Shenzhen Guangdong 518057
CN

74-0E-DB (hex) Optowiz Co., Ltd
740EDB (base 16) Optowiz Co., Ltd
D-901 Bundang Techno Park
Seongnam-si Kyeonggi-do 463-760
KR

90-8C-44 (hex) H.K ZONGMU TECHNOLOGY CO., LTD.
908C44 (base 16) H.K ZONGMU TECHNOLOGY CO., LTD.
ROOM 604, BUILDING B, 977 SHANGFENG RD
SHANGHAI 201201
CN

6C-83-66
(hex) Nanjing SAC Power Grid Automation Co., Ltd.
6C8366 (base 16) Nanjing SAC Power Grid Automation Co., Ltd.
No.11 Phoenix Road
Nanjing Jiangsu Provience 211100
CN

6C-4B-7F (hex) Vossloh-Schwabe Deutschland GmbH
6C4B7F (base 16) Vossloh-Schwabe Deutschland GmbH
Wasenstrasse 25

Urbach 73660
DE

68-8A-B5 (hex) EDP Servicos
688AB5 (base 16) EDP Servicos
Rua Castilho, número 165, 5º andar
Lisboa 1070-050
PT

24-93-CA (hex) Voxtronic Austria
2493CA (base 16) Voxtronic Austria
Modecenterstrasse 17 Objekt 1
Vienna 1110
AT

DC-CE-BC (hex) Shenzhen JSR Technology Co.,Ltd.
DCCEBC (base 16) Shenzhen JSR Technology Co.,Ltd.
2-3F,E building,Yu Jianfeng science and industry park
Shenzhen City Guangdong 518109
CN

F8-3D-4E (hex) Softlink Automation System Co., Ltd
F83D4E (base 16) Softlink Automation System Co., Ltd
No.12, Hi-tech South 7th Rd.,
Shenzhen GuangDong
518057
CN

80-79-AE (hex) ShanDong Tecsunrise Co.,Ltd
8079AE (base 16) ShanDong Tecsunrise Co.,Ltd
B316,F-2,QiLu Soft Park,
JiNan ShanDong 250101
CN

6C-90-B1 (hex) SanLogic Inc
6C90B1 (base 16) SanLogic Inc
2350 Mission College Blvd
Santa Clara CA 95054
US

E0-FA-EC (hex) Platan sp. z o.o. sp. k.
E0FAEC (base 16) Platan sp. z o.o. sp. k.
ul.Platanowa 2
Sopot pomorskie 81-855
PL

44-67-55 (hex) Orbit Irrigation
446755 (base 16) Orbit Irrigation

P.O. Box 328
Bountiful Utah 84011
US

7C-E5-6B (hex) ESEN Optoelectronics Technology Co.,Ltd.
7CE56B (base 16) ESEN Optoelectronics Technology Co.,Ltd.
Houcheng Yuanjiaqiao ,Jingang Town
Zhangjiagang Jiangsu 215631
CN

D4-4C-9C (hex) Shenzhen YOOBAO Technology Co.Ltd
D44C9C (base 16) Shenzhen YOOBAO Technology Co.Ltd
F3,A5,Hua Tong Yuan Logistics Center,Minzhi Street,Longhua Town,Bao'an District,Shenzhen City,China
Shenzhen
Guangdong 518000
CN

58-46-8F (hex) Koncar Electronics and Informatics
58468F (base 16) Koncar Electronics and Informatics
Fallerovo setaliste 22
Zagreb Drvinje 10000
HR

98-5D-46 (hex) PeopleNet Communication
985D46 (base 16) PeopleNet Communication
4400 Baker Road
Minnetonka Minnesota 55343
US

F8-9F-B8 (hex) YAZAKI Energy System Corporation
F89FB8 (base 16) YAZAKI Energy System Corporation
1-7-1 YOKOI
Shimada -shi,Shizuoka 427-8555
JP

54-05-36 (hex) Vivago Oy
540536 (base 16) Vivago Oy
Itsehallintokuja 6
Espoo FI-02600
FI

54-BE-F7 (hex) PEGATRON CORPORATION
54BEF7 (base 16) PEGATRON CORPORATION
5F No. 76, Ligong St., Beitou District
Taipei City Taiwan 112
TW

A4-89-5B (hex) ARK INFOSOLUTIONS PVT LTD

A4895B (base 16) ARK INFOSOLUTIONS PVT LTD
4428, GANESH BAZAR CLOTH MARKET
DELHI 110006
IN

D0-9D-0A (hex) LINKCOM
D09D0A
(base 16) LINKCOM
11 Rue du Soleil Levant
Clamart 92140
FR

EC-21-9F (hex) VidaBox LLC
EC219F (base 16) VidaBox LLC
240 Madison Ave
Garden City Park NEW YORK 11040
US

20-CE-C4 (hex) Peraso Technologies
20CEC4 (base 16) Peraso Technologies
144 Front St. West, Suite 685
Toronto ON M5J 2L7
CA

CC-47-03 (hex) Intercon Systems Co., Ltd.
CC4703 (base 16) Intercon Systems Co., Ltd.
#915 Hanlim Human Tower,1-40 Geumjeong-dong
Gunpo-si Gyeonggi-do 435-824
KR

A8-CC-C5 (hex) Saab AB (publ)
A8CCC5 (base 16) Saab AB (publ)
Nobymalmsvagen
Linkoping SE-581 82
SE

98-8E-4A (hex) NOXUS(BEIJING) TECHNOLOGY CO.,LTD
988E4A (base 16) NOXUS(BEIJING) TECHNOLOGY CO.,LTD
02-1205,11/F, No.2 Building,No.8,Worker’s Stadium North Road Chaoyang District
Beijing 100027
CN

F8-54-AF (hex) ECI Telecom Ltd.
F854AF (base 16) ECI Telecom Ltd.
30 Hasivim St.
Petah Tikva 49133
IL

F0-F5-AE
(hex) Adaptrum Inc.
F0F5AE (base 16) Adaptrum Inc.
25 E Trimble Rd.
San Jose California 95131
US

FC-3F-AB (hex) Henan Lanxin Technology Co., Ltd
FC3FAB (base 16) Henan Lanxin Technology Co., Ltd
4/F-B, Building No.1, 863 Central China Software Park, No.6 Cuizhu Street, High & New Technology Industries Development Zone
Zhengzhou Henan 450001
CN

EC-2A-F0 (hex) Ypsomed AG
EC2AF0 (base 16) Ypsomed AG
Brunnmattstrasse 6
Burgdorf BE 3400
CH

50-B8-88 (hex) wi2be Tecnologia S/A
50B888 (base 16) wi2be Tecnologia S/A
Rua Manoel Valdomiro de Macedo, 2285
Curitiba Parana 81170-150
BR

28-A2-41 (hex) exlar corp
28A241 (base 16) exlar corp
18400 west 77th street
chanhassen mn 55317
US

F4-20-12 (hex) Cuciniale GmbH
F42012 (base 16) Cuciniale GmbH
Heuriedweg 65
Lindau 88131
DE

98-B0-39 (hex) Nokia
98B039 (base 16) Nokia
600 March
Road
Kanata Ontario K2K 2E6
CA

B8-30-A8 (hex) Road-Track Telematics Development
B830A8 (base 16) Road-Track Telematics Development
15th Keren Hayesod St.

Tirat Hacarmel Israel 15223
IL

50-98-71 (hex) Inventum Technologies Private Limited
509871 (base 16) Inventum Technologies Private Limited
C-70, Phase 2 Extension
NOIDA Uttar Pradesh 201305
IN

30-78-6B (hex) TIANJIN Golden Pentagon Electronics Co., Ltd.
30786B (base 16) TIANJIN Golden Pentagon Electronics Co., Ltd.
No. 196 Rixin Road, Binhai Science Park,
Tianjin 300457
CN

20-DF-3F (hex) Nanjing SAC Power Grid Automation Co., Ltd.
20DF3F (base 16) Nanjing SAC Power Grid Automation Co., Ltd.
No.11 Phoenix Road
Nanjing Jiangsu 211106
CN

4C-D6-37 (hex) Qsono Electronics Co., Ltd
4CD637 (base 16) Qsono Electronics Co., Ltd
2nd Floor,Dingxin Industry park,jiayuan Road,East Lake Development Zone
Wuhan Hubei 430074
CN

94-36-E0
(hex) Sichuan Bihong Broadcast & Television New Technologies Co.,Ltd
9436E0 (base 16) Sichuan Bihong Broadcast & Television New Technologies Co.,Ltd
Guanghan City, Sichuan province Zhongshan road south three period of 36
Deyang Guanghan Sichuan Province 618300
CN

44-2A-FF (hex) E3 Technology, Inc.
442AFF (base 16) E3 Technology, Inc.
Martell-house 2F, 2-28-3 Sekimachi-Kita,
Nerima-ku Tokyo 177-0051
JP

7C-83-06 (hex) Glen Dimplex Nordic as
7C8306 (base 16) Glen Dimplex Nordic as
Postboks 16
Stjoerdal N-T 7501
NO

14-0D-4F (hex) Flextronics International
140D4F (base 16) Flextronics International

Stretton Green Distribution Centre Langford Way
Warrington Cheshire WA4 4TQ
GB

08-8E-4F (hex) SF Software Solutions
088E4F (base 16) SF Software Solutions
Buchenweg 32
Großbettlingen Baden-Wurttemberg 72663
US

AC-CA-8E (hex) ODA Technologies
ACCA8E (base 16) ODA
Technologies
607-A Woorim Lions Valley, #425
Incheon KSXX0009
KR

DC-17-92 (hex) Captivate Network
DC1792 (base 16) Captivate Network
2 Executive Drive Suite 301
Chelmsford Massachusetts 01824
US

54-22-F8 (hex) zte corporation
5422F8 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

48-6E-73 (hex) Pica8, Inc.
486E73 (base 16) Pica8, Inc.
1032 Elwell Court, Suite 105
Palo Alto CA 94303
US

64-05-BE (hex) NEW LIGHT LED
6405BE (base 16) NEW LIGHT LED
No.50, Siyuan Rd
New Taipei 24251
TW

28-28-5D (hex) Zyxel Communications Corporation
28285D (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

64-6E-EA (hex) Iskratel d.o.o.

646EEA (base 16) Iskratel d.o.o.
Ljubljanska cesta 24a
Kranj 4000
SI

D0-73-7F (hex) Mini-Circuits
D0737F
(base 16) Mini-Circuits
50 Yosef Levi Street
Kiryat Bialik Industrial Zone 27000
US

CC-7B-35 (hex) zte corporation
CC7B35 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

04-D4-37 (hex) ZNV
04D437 (base 16) ZNV
4/F, W1-A, Bldg, Gaoxin S, 1st Ave., Hi-tech Park, Nanshan District, Shenzhen, P.R.C
Shenzhen Guangdong 518057
US

CC-F4-07 (hex) EUKREA ELECTROMATIQUE SARL
CCF407 (base 16) EUKREA ELECTROMATIQUE SARL
74 AVENUE JEAN JAURES
PESSAC GIRONDE 33600
FR

04-8C-03 (hex) ThinPAD Technology (Shenzhen)CO.,LTD
048C03 (base 16) ThinPAD Technology (Shenzhen)CO.,LTD
Room 2305, Xingji Building, Xinsha Road
Shenzhen Guangdong 518104
CN

88-46-2A (hex) Telechips Inc.
88462A (base 16) Telechips Inc.
Luther Building,7-20, Sincheon-dong,Songpa-gu,
Seoul Seoul 138-240
KR

C8-02-58 (hex) ITW GSE ApS
C80258
(base 16) ITW GSE ApS
Smedebakken 31-33
Odense N 5270
DK

E8-BB-3D (hex) Sino Prime-Tech Limited
E8BB3D (base 16) Sino Prime-Tech Limited
Room 418, Building 1, Hua Mei Ju (D),
Shenzhen Guangdong 518101
CN

34-A6-8C (hex) Shine Profit Development Limited
34A68C (base 16) Shine Profit Development Limited
Unit 1401B Telecom Tower
Kwun Tong Kowloon 000001
HK

94-9F-B4 (hex) ChengDu JiaFaAnTai Technology Co.,Ltd
949FB4 (base 16) ChengDu JiaFaAnTai Technology Co.,Ltd
8th Floor, Building No.2, Zone A of Wisdom Valley
Chengdu Sichuan 610000
CN

40-68-26 (hex) Thales UK Limited
406826 (base 16) Thales UK Limited
1 Linthouse Road
Glasgow Scotland G51 4BZ
GB

F8-2B-C8 (hex) Jiangsu Switter Co., Ltd
F82BC8 (base 16) Jiangsu Switter Co., Ltd
Room 512, Buliding 8, 118 Nanyuanbei Road
Suzhou City Jiangsu Province 215006
CN

60-C3-97 (hex) 2Wire Inc
60C397
(base 16) 2Wire Inc
1764 Automation Parkway
San Jose CA 95131
US

FC-60-18 (hex) Zhejiang Kangtai Electric Co., Ltd.
FC6018 (base 16) Zhejiang Kangtai Electric Co., Ltd.
No.5, Kangtai Rd
Yueqing Zhejiang 325605
CN

0C-F0-19 (hex) Malgn Technology Co., Ltd.
0CF019 (base 16) Malgn Technology Co., Ltd.
Star Tower #305, 223-25
Seongnam-Si Kyounggi-Do 462-738

KR

A4-FC-CE (hex) Security Expert Ltd.
A4FCCE (base 16) Security Expert Ltd.
75, Ekaterininskaya Street, of. 105
Perm Perm region 614000
RU

E0-7F-88 (hex) EVIDENCE Network SIA
E07F88 (base 16) EVIDENCE Network SIA
Zilupes 4A
Riga LV-1019
LV

1C-7C-C7 (hex) Coriant GmbH
1C7CC7 (base 16) Coriant GmbH
St.-Martin-Str. 76
Munich Germany 81541
DE

34-1B-22 (hex) Grandbeing Technology Co., Ltd
341B22 (base 16) Grandbeing Technology Co., Ltd
B-301,Science and Technology Building Phase II
Shenzhen Guangdong
518000
CN

58-E0-2C (hex) Micro Technic A/S
58E02C (base 16) Micro Technic A/S
Smedevaenget 5
Aarup 5560
DK

78-B3-CE (hex) Elo touch solutions
78B3CE (base 16) Elo touch solutions
1033 McCarthy Boulevard
Milpitas CA 95035
US

34-1A-4C (hex) SHENZHEN WEIBU ELECTRONICS CO.,LTD.
341A4C (base 16) SHENZHEN WEIBU ELECTRONICS CO.,LTD.
3/F, Block 132,Jindi Industrial Zone
Shenzhen Guangdong 518048
CN

88-14-2B (hex) Protonic Holland
88142B (base 16) Protonic Holland
Factorij 36

Zwaag NH Netherlands 1689 AL
NL

F8-51-6D (hex) Denwa Technology Corp.
F8516D (base 16) Denwa Technology Corp.
1931 NW 150 TH AVE
Penbroke Pines Florida 33028
US

44-4A-65 (hex) Silverflare Ltd.
444A65 (base 16) Silverflare Ltd.
2 Bakers Yard
Uxbridge Greater London UB8 1JZ
GB

74-4B-E9 (hex) EXPLORER HYPERTECH CO.,LTD
744BE9 (base 16) EXPLORER HYPERTECH CO.,LTD
7F.-9,NO.112,Xinmin
St
New Taipei City 235
TW

04-88-E2 (hex) Beats Electronics LLC
0488E2 (base 16) Beats Electronics LLC
1601 Cloverfield Blvd.
Santa Monica California 90404
US

40-56-0C (hex) In Home Displays Ltd
40560C (base 16) In Home Displays Ltd
Waterside House
Edinburgh Lothian EH6 6QU
GB

A4-7A-CF (hex) VIBICOM COMMUNICATIONS INC.
A47ACF (base 16) VIBICOM COMMUNICATIONS INC.
900 CORPORATE DRIVE
MAHWAH NEW JERSEY 074030
US

BC-26-1D (hex) HONG KONG TECON TECHNOLOGY
BC261D (base 16) HONG KONG TECON TECHNOLOGY
ROOM 2802,BLOCK A,SHEN FANG OLAZA
Shenzhen Guangdong 518000
CN

20-4C-6D (hex) Hugo Brennenstuhl Gmbh & Co. KG.
204C6D (base 16) Hugo Brennenstuhl Gmbh & Co. KG.

Seestr. 1-3
Tuebingen Baden-Wuerttemberg 72074
DE

E8-CE-06 (hex) SkyHawke Technologies, LLC.
E8CE06 (base 16) SkyHawke Technologies, LLC.
274 Commerce Park Drive
Ridgeland MS 39157
US

C8-F3-86
(hex) Shenzhen Xiaoniao Technology Co.,Ltd
C8F386 (base 16) Shenzhen Xiaoniao Technology Co.,Ltd
Floor 13 C-D Yunsong Buliding
Futian District, Shenzhen Guangdong 518040
CN

2C-72-C3 (hex) Soundmatters
2C72C3 (base 16) Soundmatters
8060 Double R Blvd Suite 100
Reno NV 89511
US

2C-69-BA (hex) RF Controls, LLC
2C69BA (base 16) RF Controls, LLC
622 Bates Street
Saint Louis Missouri 63111
US

D4-BF-7F (hex) UPVEL
D4BF7F (base 16) UPVEL
13139 Ramona Blvd. #F
Irwindale CA 91706
US

9C-97-26 (hex) Technicolor Delivery Technologies Belgium NV
9C9726 (base 16) Technicolor Delivery Technologies Belgium NV
Prins Boudewijnlaan 47
Edegem - Belgium B-2650
BE

7C-05-07 (hex) PEGATRON CORPORATION
7C0507 (base 16) PEGATRON CORPORATION
5F No. 76, Ligong St., Beitou District
Taipei City Taiwan 112
TW

88-09-05 (hex) MTMCommunications

880905 (base
16) MTMCommunications
2-3-10 Honmachi
Ichinomiya-shi Aichi-ken 491-0853
US

C8-DD-C9 (hex) Lenovo Mobile Communication Technology Ltd.
C8DDC9 (base 16) Lenovo Mobile Communication Technology Ltd.
No.999,Qishan North 2nd Road,
Xiamen Fujian 361006
US

6C-86-86 (hex) Technonia
6C8686 (base 16) Technonia
#1101, Hanshin IT Tower 235
Seoul 152-768
KR

D4-AC-4E (hex) BODi rS, LLC
D4AC4E (base 16) BODi rS, LLC
7622 Rickenbacker Drive
Gaithersburg MD 20879
US

84-2F-75 (hex) Innokas Group
842F75 (base 16) Innokas Group
Tarjusojantie 12
Kempele Oulu 90440
FI

CC-3C-3F (hex) SA.S.S. Datentechnik AG
CC3C3F (base 16) SA.S.S. Datentechnik AG
Talhofstr. 32
Gilching Bayern 82205
DE

40-C4-D6 (hex) ChongQing Camyu Technology Development Co.,Ltd.
40C4D6 (base 16) ChongQing Camyu Technology Development Co.,Ltd.
4th Floor,Tower of Venus Technology Building ,NO 60 Xing
Guang Road
Chong Qing 401121
CN

A8-29-4C (hex) Precision Optical Transceivers, Inc.
A8294C (base 16) Precision Optical Transceivers, Inc.
2328 Innovation Way
Rochester NY 14624
US

30-D4-6A (hex) Autosales Incorporated
30D46A (base 16) Autosales Incorporated
1200 Souteat Avenue
Tallmadge Ohio 44278
US

70-C6-AC (hex) Bosch Automotive Aftermarket
70C6AC (base 16) Bosch Automotive Aftermarket
Franz Oechsle Str. 4
Plochingen D-73201
DE

A0-86-1D (hex) Chengdu Fuhuaxin Technology co.,Ltd
A0861D (base 16) Chengdu Fuhuaxin Technology co.,Ltd
Room 1608,Building G1,No.1800 of Yizhou Ave
Chengdu Sichuan 610041
CN

50-8D-6F (hex) CHAHOO Limited
508D6F (base 16) CHAHOO Limited
B-4thFloor, 631
Sungnam Gyeonggi 463-400
KR

30-89-99 (hex) Guangdong East Power Co.,
308999 (base 16) Guangdong East Power Co.,
No.6 Northern Industry Road,Songshan lake SCI&TECH Industry Park
DongGuan GuangDong 523808
CN

A4-E9-91 (hex) SISTEMAS AUDIOVISUALES ITELSIS S.L.
A4E991 (base 16) SISTEMAS AUDIOVISUALES ITELSIS S.L.
POL.IND. DEL TAMBRE
SANTIAGO COMPOSTELA A CORUÑA 15890
ES

3C-86-A8 (hex) Sangshin elecom .co,, LTD
3C86A8 (base 16) Sangshin elecom .co,, LTD
614-1 Wolhari Suhmyon
Choongnam 339-814
KR

84-F4-93 (hex) OMS spol. s.r.o.
84F493 (base 16) OMS spol. s.r.o.
Dojc 419
Dojc Slovakia 90602

SK

BC-D1-77 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
BCD177 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

7C-D7-62 (hex) Freestyle Technology Pty Ltd
7CD762 (base 16) Freestyle Technology Pty Ltd
1A 24 Ricketts Road
Mount Waverley Victoria 3149
AU

90-1D-27 (hex) zte corporation
901D27 (base 16) zte corporation
12/F.,zte
R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

F0-5D-C8 (hex) Duracell Powermat
F05DC8 (base 16) Duracell Powermat
230 Park Ave, suit 910
new york NY 10169
US

CC-5D-57 (hex) Information System Research Institute,Inc.
CC5D57 (base 16) Information System Research Institute,Inc.
Metro city minamiikebukuro-bldg.5F
Toshima-ku Tokyo 171-0022
JP

E8-DE-27 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
E8DE27 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

28-2C-B2 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
282CB2 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

64-E5-99 (hex) EFM Networks
64E599 (base 16) EFM Networks
6F, Benposra

II 1197-1 Bojeong Giheung Gu
Yong In Kyunggi do 446913
KR

F4-B3-81 (hex) WindowMaster A/S
F4B381 (base 16) WindowMaster A/S
Skelstedet 13
Vedbaek 2950
DK

74-F1-02 (hex) Beijing HCHCOM Technology Co., Ltd
74F102 (base 16) Beijing HCHCOM Technology Co., Ltd
Patton Building 8 floor,11# Wan liu zhong lu,Haidian District,Beijing,China
Beijing China 100089
CN

F0-F2-60 (hex) Mobitec AB
F0F260 (base 16) Mobitec AB
Box 97
Herrljunga VG 52421
SE

04-4C-EF (hex) Fujian Sanao Technology Co.,Ltd
044CEF (base 16) Fujian Sanao Technology Co.,Ltd
Fuzhou shibei bicyclic road no. 117
Fuzhou Fujian 350000
CN

4C-80-4F (hex) Armstrong Monitoring Corp
4C804F (base 16) Armstrong Monitoring Corp
215 Colonnade Rd
Nepean Ontario K2E 7K3
CA

64-C6-67 (hex) Barnes&Noble
64C667 (base 16) Barnes&Noble
400 Hamilton Avenue
Palo Alto CA 94301
US

10-3D-EA (hex) HFC
Technology (Beijing) Ltd. Co.
103DEA (base 16) HFC Technology (Beijing) Ltd. Co.
Building #3, Room 1214
Beijing AP (Area Pacific) 100193
CN

C8-93-46 (hex) MXCHIP Company Limited

C89346 (base 16) MXCHIP Company Limited
Room 811,Tongpu Building,
Shanghai Shanghai 200333
CN

94-AC-CA (hex) trivum technologies GmbH
94ACCA (base 16) trivum technologies GmbH
Heusteigstraße 37
Stuttgart 70108
DE

90-82-60 (hex) IEEE 1904.1 Working Group
908260 (base 16) IEEE 1904.1 Working Group
1351 Redwood Way,
Petaluma CA 94954
US

D4-EE-07 (hex) HIWIFI Co., Ltd.
D4EE07 (base 16) HIWIFI Co., Ltd.
Room 1002, Zhongguancun e-Plaza A,
Haidian District Beijing 100080
CN

FC-AD-0F (hex) QTS NETWORKS
FCAD0F (base 16) QTS NETWORKS
Jinyanlong Plaza, Huilongguan,
Beijing 100092
CN

98-4C-04 (hex) Zhangzhou Keneng Electrical Equipment Co Ltd
984C04 (base 16) Zhangzhou Keneng Electrical
Equipment Co Ltd
Keneng Technology Park,No.12 Wuqiao Zhong Rd
Zhangzhou Fujian 363005
CN

AC-DB-DA (hex) Shenzhen Geniatech Inc, Ltd
ACDBDA (base 16) Shenzhen Geniatech Inc, Ltd
18th F, GDC Building,No.9 ,Gaoxin Central Avenue 3rd
Shenzhen GuangDong 518057
CN

9C-31-78 (hex) Foshan Huadian Intelligent Communications Teachnologies Co.,Ltd
9C3178 (base 16) Foshan Huadian Intelligent Communications Teachnologies Co.,Ltd
Building B,No.8 of Shishan Industrial Avenue
Foshan Guangdong 528225
CN

98-3F-9F (hex) China SSJ (Suzhou) Network Technology Inc.
983F9F (base 16) China SSJ (Suzhou) Network Technology Inc.
399 Linquan St., Dongnan Building 411
Suzhou Jiangsu 215123
CN

B8-38-CA (hex) Kyokko Tsushin System CO.,LTD
B838CA (base 16) Kyokko Tsushin System CO.,LTD
2-25-7 sakado,Takatsu-ku
Kawasaki Kanagawa 213-0012
JP

B0-14-08 (hex) LIGHTSPEED INTERNATIONAL CO.
B01408 (base 16) LIGHTSPEED
INTERNATIONAL CO.
No.20, LANE 526 NIUPU East RD.
Hsinchu Not US/Canada 30091
TW

08-1D-FB (hex) Shanghai Mexon Communication Technology Co.,Ltd
081DFB (base 16) Shanghai Mexon Communication Technology Co.,Ltd
Floor4-5, Unit B, Building 5 ,Lane 128, Jiujing Road
Shanghai Shanghai 201615
CN

C4-4E-AC (hex) Shenzhen Shiningworth Technology Co., Ltd.
C44EAC (base 16) Shenzhen Shiningworth Technology Co., Ltd.
Room 610, Block B, Huameiju Business Center,
Shenzhen Guangdong 518000
CN

B0-C9-5B (hex) Beijing Symtech CO.,LTD
B0C95B (base 16) Beijing Symtech CO.,LTD
Technology Park Building 2-1,The Hung Fu Pioneer Park
Beijing 102209
CN

38-B5-BD (hex) E.G.O. Elektro-Ger
38B5BD (base 16) E.G.O. Elektro-Ger
Einkauf
Oberderdingen 75038
DE

5C-43-D2 (hex) HAZEMEYER
5C43D2 (base 16) HAZEMEYER
ZI Route de Grugies
GAUCHY FRANCE 02430
FR

D8-09-C3 (hex) Cercacor
Labs
D809C3 (base 16) Cercacor Labs
189 Technology Dr
Irvine CA 92618
US

D4-27-51 (hex) Infopia Co., Ltd
D42751 (base 16) Infopia Co., Ltd
891, Hogye-dong, Dongan-gu
Anyang Gyeonggi 431-080
KR

68-A4-0E (hex) BSH Hausgeräte GmbH
68A40E (base 16) BSH Hausgeräte GmbH
Im Gewerbepark B35
Regensburg Bayern 93059
DE

F4-C6-D7 (hex) blackned GmbH
F4C6D7 (base 16) blackned GmbH
Am Hartholz 21
Alling Bavaria 82239
DE

A8-01-80 (hex) IMAGO Technologies GmbH
A80180 (base 16) IMAGO Technologies GmbH
Strassheimer Str. 45
Friedberg Hessen 61169
DE

0C-55-21 (hex) Axiros GmbH
0C5521 (base 16) Axiros GmbH
Altlaufstrasse 34
Munich Hoehenkirchen Bavaria 85635
DE

4C-CA-53 (hex) Skyera, Inc.
4CCA53 (base 16) Skyera, Inc.
1704 Automation Pkwy
San Jose CA 95131
US

90-FF-79 (hex) Metro Ethernet Forum
90FF79 (base 16) Metro Ethernet Forum
6033 W.

Century Boulevard
Los Angeles California 90045
US

D4-CA-6E (hex) u-blox AG
D4CA6E (base 16) u-blox AG
Zuercherstrasse 68
Thalwil 8800
CH

F8-7B-62 (hex) FASTWEL INTERNATIONAL CO., LTD. Taiwan Branch
F87B62 (base 16) FASTWEL INTERNATIONAL CO., LTD. Taiwan Branch
6F., No.118, Ln. 235, Baociao Rd., Sindian City, Taipei County 231, Taiwan R.O.C.
Taipei 231
TW

74-FE-48 (hex) ADVANTECH CO., LTD.
74FE48 (base 16) ADVANTECH CO., LTD.
NO.1, Alley 20, Lane 26
TAIPEI 231
TW

80-B9-5C (hex) ELFTECH Co., Ltd.
80B95C (base 16) ELFTECH Co., Ltd.
174, Daehyeon Techno World 6F 609,
Uiwang-Si Gyeonggi-Do 437-753
KR

A0-19-17 (hex) Bertel S.p.a.
A01917 (base 16) Bertel S.p.a.
Frazione Rimale, Via Emilia Ovest 61
Fidenza Parma 43036
IT

E4-E4-09 (hex) LEIFHEIT AG
E4E409 (base 16) LEIFHEIT AG
Leifhheitstreet
Nassau Rheinland-Pfalz 56377
DE

68-B8-D9 (hex) Act
KDE, Inc.
68B8D9 (base 16) Act KDE, Inc.
196-14, Bangi-dong, Songpa-gu
Seoul 138-834
KR

90-CC-24 (hex) Synaptics, Inc

90CC24 (base 16) Synaptics, Inc
1251 McKay Drive
San Jose CA 95131-1709
US

78-98-FD (hex) Q9 Networks Inc.
7898FD (base 16) Q9 Networks Inc.
Suite 4400, PO Box 235
Toronto ON M5K 1J3
CA

D0-63-B4 (hex) SolidRun Ltd.
D063B4 (base 16) SolidRun Ltd.
P.O Box 50782
Nazareth ISRAEL 16165
IL

10-5C-BF (hex) DuroByte Inc
105CBF (base 16) DuroByte Inc
875 Foster Ave, Unit 101
Windsor Ontario N8X4W3
CA

2C-E8-71 (hex) Alert Metalguard ApS
2CE871 (base 16) Alert Metalguard ApS
Vester Voldgade 104, st, th
Copenhagen V 1552
DK

40-27-0B (hex) Mobileeco Co., Ltd
40270B (base 16) Mobileeco Co., Ltd
#2126, IT Tower B, Keumkang Penterium Bldg, 810
Anyang City Kyunggi-Do 431810
KR

E4-EE-FD (hex) MR&D Manufacturing
E4EEFD (base
16) MR&D Manufacturing
Viale dell'Unione Europea, 8
Gallarate Varese 21013
US

20-91-8A (hex) PROFALUX
20918A (base 16) PROFALUX
377 rue des Cypr
THYEZ Haute Savoie 74300
FR

8C-33-30 (hex) EmFirst Co., Ltd.
8C3330 (base 16) EmFirst Co., Ltd.
701 Suwon Venture Center
Suwon Gyeonggi-do 442-833
KR

08-7B-AA (hex) SVYAZKOMPLEKTSERVICE, LLC
087BAA (base 16) SVYAZKOMPLEKTSERVICE, LLC
Lenskaya 2-21
Moscow 129327
US

EC-49-93 (hex) Qihan Technology Co., Ltd
EC4993 (base 16) Qihan Technology Co., Ltd
20th Floor,Times Technology BuildingNo.7028,Shennan Road,Futian,
Shenzhen Guangdong 518040
CN

B0-AC-FA (hex) FUJITSU LIMITED
B0ACFA (base 16) FUJITSU LIMITED
403, Kosugi-cho 1-chome, Nakahara-ku
Kawasaki Kanagawa 211-0063
JP

8C-E0-81 (hex) zte corporation
8CE081 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen
guangdong 518057
CN

C8-8A-83 (hex) Dongguan HuaHong Electronics Co.,Ltd
C88A83 (base 16) Dongguan HuaHong Electronics Co.,Ltd
NO.25,Xing Er Road,Chen Wu Industrial Zone,Wusha Village,Chang£§an Town
Dongguan City China/Guangdong 523858
CN

8C-C5-E1 (hex) ShenZhen Konka Telecommunication Technology Co.,Ltd
8CC5E1 (base 16) ShenZhen Konka Telecommunication Technology Co.,Ltd
No.9008 Shennan Road
ShenZhen GuangDong 518053
CN

64-A3-41 (hex) Wonderlan (Beijing) Technology Co., Ltd.
64A341 (base 16) Wonderlan (Beijing) Technology Co., Ltd.
Room 04D, Building D, KeShi Plaza
Haidian District Beijing 100085
CN

00-4D-32 (hex) Andon Health Co.,Ltd.
004D32 (base 16) Andon Health Co.,Ltd.
NO.3Jin PIng Road Ya An Street
Tianjin 300190
CN

24-F2-DD (hex) Radiant Zemax LLC
24F2DD (base 16) Radiant Zemax LLC
22908 NE Alder Crest Dr NE Ste 100
Redmond WA 98053
US

20-B5-C6 (hex) Mimosa
Networks
20B5C6 (base 16) Mimosa Networks
656 N. Santa Cruz. Ave., Suite B
Los Gatos CA 95030
US

2C-44-1B (hex) Spectrum Medical Limited
2C441B (base 16) Spectrum Medical Limited
Harrier 4, Meteor Business Park
Gloucester GL2 9QL
US

B8-77-C3 (hex) METER Group
B877C3 (base 16) METER Group
2365 NE Hopkins Court
Pullman WA 99163
US

FC-A9-B0 (hex) MIARTECH (SHANGHAI),INC.
FCA9B0 (base 16) MIARTECH (SHANGHAI),INC.
3F,Building 4,No 290 Zhangheng Road Zhangjiang Hi-Tech Park,Pudong New District Shanghai,P.R.China
SHANGHAI SHANGHAI 201204
CN

A4-4E-2D (hex) Adaptive Wireless Solutions, LLC
A44E2D (base 16) Adaptive Wireless Solutions, LLC
577 Main Street
Hudson MA 01749
US

A4-6E-79 (hex) DFT System Co.Ltd
A46E79 (base 16) DFT System Co.Ltd
Room 6B XINHAOFANG Building
SHENZHEN GUANGDONG 518052

CN

9C-54-1C (hex) Shenzhen My-power Technology Co.,Ltd
9C541C
(base 16) Shenzhen My-power Technology Co.,Ltd
202¬Building 3¬Shenzhen Software Park
Shenzhen Nanshan 518000
CN

C4-45-67 (hex) SAMBON PRECISON and ELECTRONICS
C44567 (base 16) SAMBON PRECISON and ELECTRONICS
204, Samjeong-dong, Ojeong-gu
Bucheon-city Kyeonggi-do 421-810
KR

E4-56-14 (hex) Suttle Apparatus
E45614 (base 16) Suttle Apparatus
1001 East Highway 212
Hector MN 55342
US

3C-83-B5 (hex) Advance Vision Electronics Co. Ltd.
3C83B5 (base 16) Advance Vision Electronics Co. Ltd.
6F, No. 199, Lide St. Jhonghe Dist
New Taipei City, Jhonghe Dist 23556
TW

28-A1-92 (hex) GERP Solution
28A192 (base 16) GERP Solution
Rua Costa Aguiar, 1710
São Paulo SP 04204002
BR

68-1C-A2 (hex) Rosewill Inc.
681CA2 (base 16) Rosewill Inc.
17708 Rowland St.,
City of Industry CA 91748
US

60-46-16 (hex) XIAMEN VANN INTELLIGENT CO., LTD
604616 (base 16) XIAMEN VANN
INTELLIGENT CO., LTD
UNIT 101£¬NO.28 GUANRI RD., SOFTWARE PARK ¢ò
XIAMEN FUJIAN 361009
CN

6C-40-C6 (hex) Nimbus Data, Inc.
6C40C6 (base 16) Nimbus Data, Inc.

5151 California Ave, Ste 100
Irvine CA 92617
US

10-48-B1 (hex) Beijing Duokan Technology Limited
1048B1 (base 16) Beijing Duokan Technology Limited
Room 1105, Changxin Building, No.39 Anding Road
Chaoyang District Beijing 100029
CN

0C-CD-FB (hex) EDIC Systems Inc.
0CCDFB (base 16) EDIC Systems Inc.
1-3-7 Nakamachidai
Yokohama Kanagawa 224-0041
JP

9C-8D-1A (hex) INTEG process group inc
9C8D1A (base 16) INTEG process group inc
2919 E Hardies Rd, First Floor
Gibsonia PA 15044
US

48-03-62 (hex) DESAY ELECTRONICS(HUIZHOU)CO.,LTD
480362 (base 16) DESAY ELECTRONICS(HUIZHOU)CO.,LTD
BuildingA,No.3 Desay Industrial Zone
Huizhou Guangdong 516029
CN

18-67-3F (hex) Hanover Displays Limited
18673F (base 16) Hanover
Displays Limited
Unit 24
Lewes East Sussex BN8 6JL
GB

7C-0A-50 (hex) J-MEX Inc.
7C0A50 (base 16) J-MEX Inc.
B2, 3F, No.1, Li-Hsin 1st Road,
Hsinchu Taiwan 300
TW

10-6F-EF (hex) Ad-Sol Nissin Corp
106FEF (base 16) Ad-Sol Nissin Corp
Rivage Shinagawa, 4-1-8 Kounan
Minato-ku Tokyo 108-0075
JP

50-11-EB (hex) SilverNet Ltd

5011EB (base 16) SilverNet Ltd
16 Cocran Close
Milton Keynes Bucks MK8 0AJ
GB

54-DF-63 (hex) Intrakey technologies GmbH
54DF63 (base 16) Intrakey technologies GmbH
Wiener Strasse 114-116
Dresden Saxony 01219
DE

DC-9F-A4 (hex) Nokia Corporation
DC9FA4 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

44-C3-9B (hex) OOO RUBEZH NPO
44C39B (base 16) OOO RUBEZH NPO
Pionerskaya 11a
Bratsk Irkutsk 665717
RU

40-F2-E9 (hex) IBM
40F2E9 (base 16) IBM
3039 E Cornwallis Rd
Research Triangle Park NC
27709
US

74-4D-79 (hex) Arrive Systems Inc.
744D79 (base 16) Arrive Systems Inc.
1404 Franklin Street, # 350
Oakland CA 94612
US

9C-04-73 (hex) Tecmobile (International) Ltd.
9C0473 (base 16) Tecmobile (International) Ltd.
Unit L, Braintree Industrial Estate,
HA4 0EJ
GB

D4-93-A0 (hex) Fidelix Oy
D493A0 (base 16) Fidelix Oy
Martinkyläntie 41
VANTAA International 01720
FI

08-EB-ED (hex) World Elite Technology Co.,LTD
08EBED (base 16) World Elite Technology Co.,LTD
6/F Liyuan floor ,Dragon City North Road on the 3rd
ShenZhen GuangDong 518100
CN

48-F8-B3 (hex) Cisco-Linksys, LLC
48F8B3 (base 16) Cisco-Linksys, LLC
121 Theory Drive
Irvine California 92612
US

B4-DF-FA (hex) Litemax Electronics Inc.
B4DFFA (base 16) Litemax Electronics Inc.
8F, No.137,Lane 235
Shin-dian-Dist New Taipei 23145
TW

5C-4A-26 (hex) Enguity Technology Corp
5C4A26
(base 16) Enguity Technology Corp
2020 Pennsylvania Ave., NW
Washington DC 20006
US

D8-D2-7C (hex) JEMA ENERGY, SA
D8D27C (base 16) JEMA ENERGY, SA
Pº Circuito nº10
Lasarte-Oria Guipuzcoa 20160
ES

B0-12-03 (hex) Dynamics Hong Kong Limited
B01203 (base 16) Dynamics Hong Kong Limited
Room A4, 3/F, Friend's House , No.6A Carnarvon Road,
999077
HK

98-86-B1 (hex) Flyaudio corporation (China)
9886B1 (base 16) Flyaudio corporation (China)
No.16 Mingzhu RD Economic&Technology
Guangzhou Guangdong Province 510730
CN

70-93-F8 (hex) Space Monkey, Inc.
7093F8 (base 16) Space Monkey, Inc.
7707 south main street
Midvale Utah 84047
US

28-B3-AB (hex) Genmark Automation
28B3AB (base 16) Genmark Automation
1201 Cadillac Ct
Milpitas CA 95035
US

C4-E7-BE (hex) SCSpro Co.,Ltd
C4E7BE (base 16) SCSpro Co.,Ltd
#1203, KCC welltz valley 470-8
Seoul Korea 153-710
KR

58-87-4C
(hex) LITE-ON CLEAN ENERGY TECHNOLOGY CORP.
58874C (base 16) LITE-ON CLEAN ENERGY TECHNOLOGY CORP.
3F, 392, Ruey Kuang Road, Neihu,
Taipei 11492
TW

28-91-D0 (hex) Stage Tec Entwicklungsgesellschaft für professionelle Audiotechnik mbH
2891D0 (base 16) Stage Tec Entwicklungsgesellschaft für professionelle Audiotechnik mbH
Tabbertstraße 10
Berlin 12459
DE

C0-BD-42 (hex) ZPA Smart Energy a.s.
C0BD42 (base 16) ZPA Smart Energy a.s.
Komenskeho 821
Trutnov 54101
CZ

20-DC-93 (hex) Cheetah Hi-Tech, Inc.
20DC93 (base 16) Cheetah Hi-Tech, Inc.
Rm 804, No. 5, Sec. 2, Anhe Rd.
Taipei Taiwan 10680
TW

2C-62-5A (hex) Finest Security Systems Co., Ltd
2C625A (base 16) Finest Security Systems Co., Ltd
12F, No.103, Sec3, Nan King E. RD
Taipei 104
US

20-74-CF (hex) Shenzhen Voxtech Co.,Ltd
2074CF (base 16) Shenzhen Voxtech Co.,Ltd
4/F East, Building 4, Minqi

Science&Technology Park, Pingshan,
Shenzhen Guangdong 518055
CN

FC-52-CE (hex) Control iD
FC52CE (base 16) Control iD
Rua Hungria, 574
São Paulo SP 01455-000
BR

D8-C6-91 (hex) Hichan Technology Corp.
D8C691 (base 16) Hichan Technology Corp.
12F., No.2, Jian 8th Rd., Zhonghe Dist
New Taipei City 23511
TW

E4-3F-A2 (hex) Wuxi DSP Technologies Inc.
E43FA2 (base 16) Wuxi DSP Technologies Inc.
Rm A801,530Mansion,International High-Tech Park,Qingyuan Road
Wuxi Jiangsu 214000
US

F4-B7-2A (hex) TIME INTERCONNECT LTD
F4B72A (base 16) TIME INTERCONNECT LTD
6/F, Photonics Centre

HK

E0-F5-CA (hex) CHENG UEI PRECISION INDUSTRY CO.,LTD.
E0F5CA (base 16) CHENG UEI PRECISION INDUSTRY CO.,LTD.
No. 18, ZhongShan Rd., TuCheng Dist.,
New Taipei City Taiwan 23680
TW

A8-EF-26 (hex) Tritonwave
A8EF26 (base 16) Tritonwave
795 Lakeshore Dr, Suite 307
Quebec H9S 0A8
CA

5C-24-79
(hex) Baltech AG
5C2479 (base 16) Baltech AG
Lilienthalstrasse 27
Hallbergmoos 85399
DE

D8-2D-E1 (hex) Tricascade Inc.

D82DE1 (base 16) Tricascade Inc.
5020 Campus Drv.
Newport Beach CA 92660
US

14-35-8B (hex) Mediabridge Products, LLC.
14358B (base 16) Mediabridge Products, LLC.
1951 Old Cuthbert Rd
Cherry Hill New Jersey 08034
US

00-F4-03 (hex) Orbis Systems Oy
00F403 (base 16) Orbis Systems Oy
Taivaltie 5
Vantaa 01610
FI

54-73-98 (hex) Toyo Electronics Corporation
547398 (base 16) Toyo Electronics Corporation
1860-38, Simoakasaka
Kawagoe Saitama 3501155
JP

60-F2-EF (hex) VisionVera International Co., Ltd.
60F2EF (base 16) VisionVera International Co., Ltd.
A1103 Gehua Building
Beijing 100007
CN

C0-3F-2A (hex) Biscotti, Inc.
C03F2A (base 16) Biscotti, Inc.
5900 South Lake Forest Drive
McKinney TX 75070
US

38-1C-4A
(hex) SIMCom Wireless Solutions Co.,Ltd.
381C4A (base 16) SIMCom Wireless Solutions Co.,Ltd.
Building A,SIM Technology Building,No.633,Jinzhong Road,
Shanghai 200335
CN

54-39-68 (hex) Edgewater Networks Inc
543968 (base 16) Edgewater Networks Inc
2895 Northwestern Parkway
Santa Clara CA 95051
US

44-0C-FD (hex) NetMan Co., Ltd.
440CFD (base 16) NetMan Co., Ltd.
Rm 406, DIP, 2139, Daemyeong-dong,
Daegu 705-701
KR

8C-D3-A2 (hex) VisSim AS
8CD3A2 (base 16) VisSim AS
Vollveien 5
Horten Vestfold 3183
NO

EC-93-27 (hex) MEMMERT GmbH + Co. KG
EC9327 (base 16) MEMMERT GmbH + Co. KG
Aeussere Rittersbacher Strasse 38
Schwabach Bavaria 91126
DE

C4-39-3A (hex) SMC Networks Inc
C4393A (base 16) SMC Networks Inc
20 Mason
Irvine CA 92618
US

74-99-75 (hex) IBM Corporation
749975 (base 16) IBM Corporation
4400 North First Street
San Jose
CA 95134
US

88-10-36 (hex) Panodic(ShenZhen) Electronics Limted
881036 (base 16) Panodic(ShenZhen) Electronics Limted
Floor 12, Grentech Building, Keji.C. Road
ShenZhen GuangDong 518052
CN

68-B6-FC (hex) Hitron Technologies. Inc
68B6FC (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

60-CB-FB (hex) AirScape Inc.
60CBFB (base 16) AirScape Inc.
625 Charles Way
Medford OR 97501
US

7C-16-0D (hex) Saia-Burgess Controls AG
7C160D (base 16) Saia-Burgess Controls AG
Bahnhofstrasse 18
Murten FR 3280
CH

A4-97-BB (hex) Hitachi Industrial Equipment Systems Co.,Ltd
A497BB (base 16) Hitachi Industrial Equipment Systems Co.,Ltd
3, Kanda Neribei-cho
Chiyoda-ku Tokyo 101-0022
US

4C-54-27 (hex) Linepro Sp. z o.o.
4C5427 (base 16) Linepro Sp. z o.o.
ul. Miedziana 11
Warszawa mazowieckie
00-835
PL

A4-93-4C (hex) Cisco Systems, Inc
A4934C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

D0-D2-12 (hex) K2NET Co.,Ltd.
D0D212 (base 16) K2NET Co.,Ltd.
K2Net Building
Seoul 158-092
KR

80-D1-8B (hex) Hangzhou I'converge Technology Co.,Ltd
80D18B (base 16) Hangzhou I'converge Technology Co.,Ltd
No.618 Xixi Road,
Hangzhou Zhejiang 310012
CN

40-88-E0 (hex) Beijing Ereneben Information Technology Limited Shenzhen Branch
4088E0 (base 16) Beijing Ereneben Information Technology Limited Shenzhen Branch
Room 14A, Building A, Honglong Central Plaza, No.3001,Heping Road, Luohu District, Shenzhen City
Shenzhen Guangdong 518001
CN

E8-54-84 (hex) NEO Information Systems Co., Ltd.
E85484 (base 16) NEO Information Systems Co., Ltd.
609, Jungangindustpia, #517-13, Sangdaeweon-Dong, Jungweon-Gu
Seongnam Gyunggi-Do 462-713

KR

74-AE-76 (hex) iNovo Broadband,
Inc.
74AE76 (base 16) iNovo Broadband, Inc.
3475 Corporate Way
Duluth Georgia 30096
US

1C-84-64 (hex) FORMOSA WIRELESS COMMUNICATION CORP.
1C8464 (base 16) FORMOSA WIRELESS COMMUNICATION CORP.
11F., No.3-2, Yuanqu St., Nangang Dist.,
Taipei City 115
TW

64-51-7E (hex) LONG BEN (DONGGUAN) ELECTRONIC TECHNOLOGY CO.,LTD.
64517E (base 16) LONG BEN (DONGGUAN) ELECTRONIC TECHNOLOGY CO.,LTD.
NO.19.Jian she Road,Shi ma Village,Tang xia Town,Dong guan,Guang dong,China
Dong guan Guang dong 523731
CN

D4-3D-7E (hex) Micro-Star Int'l Co, Ltd
D43D7E (base 16) Micro-Star Int'l Co, Ltd
No.69, Lide St., Jhonghe City
Taipei County 235
US

AC-D9-D6 (hex) tci GmbH
ACD9D6 (base 16) tci GmbH
Ludwig-Rinn-Straße 10-14
Heuchelheim Hessen 35452
US

44-23-AA (hex) Farmage Co., Ltd.
4423AA (base 16) Farmage Co., Ltd.
166-8 Kanazawa Toubetsu
Hokkaido 061-0212
JP

7C-FE-28
(hex) Salutron Inc.
7CFE28 (base 16) Salutron Inc.
40979 Encyclopedia Circle
Fremont CA 94538
US

E8-10-2E (hex) Really Simple Software, Inc
E8102E (base 16) Really Simple Software, Inc

P.O. Box 1086
Tiburon California 94920
US

0C-56-5C (hex) HyBroad Vision (Hong Kong) Technology Co Ltd
0C565C (base 16) HyBroad Vision (Hong Kong) Technology Co Ltd
Unit 1808 18/F Tower 3 Enterprise Square
Kowloon Bay
HK

8C-6A-E4 (hex) Viogem Limited
8C6AE4 (base 16) Viogem Limited
Paddock House
Orlingbury Northamptonshire NN141JH
GB

A0-EF-84 (hex) Seine Image Int'l Co., Ltd
A0EF84 (base 16) Seine Image Int'l Co., Ltd
6F,4Building, NO.63,Mingz North Road
ZhuHai 519075
CN

E0-A3-0F (hex) Pevco
E0A30F (base 16) Pevco
1401 Tangier Drive
Baltimore MD 21220
US

88-DC-96 (hex) EnGenius Technologies, Inc.
88DC96 (base 16) EnGenius Technologies, Inc.
No. 500, Fusing
3rd Rd., Hwa-Ya Technology Park
Kuei-Shan Hsiang TaoYuan County 333
TW

20-44-3A (hex) Schneider Electric Asia Pacific Ltd
20443A (base 16) Schneider Electric Asia Pacific Ltd
13F East Wing, Warwick House, Taikoo Place
Quarry Bay
HK

EC-A2-9B (hex) Kemppi Oy
ECA29B (base 16) Kemppi Oy
Kempinkatu 1
Lahti Lahti 15810
FI

C4-BA-99 (hex) I+ME Actia Informatik und Mikro-Elektronik GmbH

C4BA99 (base 16) I+ME Actia Informatik und Mikro-Elektronik GmbH
Dresdenstrasse 17/18
Braunschweig Niedersachsen 38690
DE

04-CE-14 (hex) Wilocity LTD.
04CE14 (base 16) Wilocity LTD.
21 Bareket St.
Caesarea Israel 38900
US

E8-D4-83 (hex) ULTIMATE Europe Transportation Equipment GmbH
E8D483 (base 16) ULTIMATE Europe Transportation Equipment GmbH
Industriestraße 3
3300 Niederösterreich 3300
AT

48-28-2F (hex) zte corporation
48282F (base 16) zte corporation
12/F.,zte R&D building
,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

EC-1A-59 (hex) Belkin International Inc.
EC1A59 (base 16) Belkin International Inc.
12045 East Waterfront Drive
Playa Vista Ca. 90094
US

B0-43-5D (hex) NuLEDs, Inc.
B0435D (base 16) NuLEDs, Inc.
1497 Poinsettia Ave.
Vista CA 92081
US

08-08-EA (hex) AMSC
0808EA (base 16) AMSC
15775 W Schaefer Court
New Berlin WI 53151
US

B4-55-70 (hex) Borea
B45570 (base 16) Borea
Mlaka 1b
Begunje SI-4275
SI

10-0D-2F (hex) Online Security Pty. Ltd.
100D2F (base 16) Online Security Pty. Ltd.
5/21-25 Redland Drive
Mitcham VIC 3132
AU

3C-98-BF (hex) Quest Controls, Inc.
3C98BF (base 16) Quest Controls, Inc.
208 9th Street Dr. West
Palmetto FL 34221
US

D0-AE-EC (hex) Alpha Networks Inc.
D0AEEC (base 16) Alpha Networks Inc.
No.8 Li-shing 7th Rd., Science-based Industrial Park, Hsinchu,
Taiwan, R.O.C
Hsinchu Taiwan 300
TW

F0-FD-A0 (hex) Acurix Networks Pty Ltd
F0FDA0 (base 16) Acurix Networks Pty Ltd
Unit 5, 348 Victoria Road,
Malaga, Perth Western Austraila 6090
NZ

34-6E-8A (hex) Ecosense
346E8A (base 16) Ecosense
1414 Kolon science vallet-II., #811
Seoul Guro-gu 152-878
KR

64-F2-42 (hex) Gerdes Aktiengesellschaft
64F242 (base 16) Gerdes Aktiengesellschaft
Bergerwiesenstraße 9
Meckenheim NRW 53340
DE

60-F2-81 (hex) TRANWO TECHNOLOGY CO., LTD.
60F281 (base 16) TRANWO TECHNOLOGY CO., LTD.
No.236, Sec.3, Huanbei Rd.
Jubei City Hsinchu County 30265
TW

0C-C0-C0 (hex) MAGNETI MARELLI SISTEMAS ELECTRONICOS MEXICO
0CC0C0 (base 16) MAGNETI MARELLI SISTEMAS ELECTRONICOS MEXICO
AV. INDUSTRIA 20/21
TEPOTZOTLAN MEXICO 54600
MX

08-37-9C (hex) Topaz Co. LTD.
08379C (base 16) Topaz Co. LTD.
B305-22, Acrotower, 1591 Gwanyang-dong
Anyang-si
Gyeonggi-Do 431-060
KR

D8-0D-E3 (hex) FXI TECHNOLOGIES AS
D80DE3 (base 16) FXI TECHNOLOGIES AS
Postboks 609
TRONDHEIM Norge 7406
NO

A0-C3-DE (hex) Triton Electronic Systems Ltd.
A0C3DE (base 16) Triton Electronic Systems Ltd.
620063, Ekaterinburg, P/O box 522
Ekaterinburg Sverdlovskaya obl. 620063
RU

14-2D-F5 (hex) Amphitech
142DF5 (base 16) Amphitech
1, rue Robert & Sonia DELAUNAY
Paris 75011
FR

94-21-97 (hex) Stalmart Technology Limited
942197 (base 16) Stalmart Technology Limited
Rm1106-1107E, Building F, Xihaimingzhu, No.1, Taoyuan Road
Shenzhen Gunagdong 518052
CN

B0-D2-F5 (hex) Vello Systems, Inc.
B0D2F5 (base 16) Vello Systems, Inc.
1530 O'Brien Drive
Menlo Park California 94025
US

70-9A-0B (hex) Italian Institute of Technology
709A0B (base 16) Italian Institute of Technology
Via Morego 30
Genova GE 16163
IT

E8-13-24 (hex) GuangZhou
Bonsoninfo System CO.,LTD
E81324 (base 16) GuangZhou Bonsoninfo System CO.,LTD
4/F,NO.1029/31,GaoPu Road,GaoTang New Building District

Guangzhou Guangdong 510663
CN

D0-69-9E (hex) LUMINEX Lighting Control Equipment
D0699E (base 16) LUMINEX Lighting Control Equipment
Berkenlaan 8 A
Hechtel - Eksel Limburg 3940
BE

50-57-A8 (hex) Cisco Systems, Inc
5057A8 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-DE-FB (hex) Cisco Systems, Inc
00DEFB (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

3C-A3-15 (hex) Bless Information & Communications Co., Ltd
3CA315 (base 16) Bless Information & Communications Co., Ltd
#64-1, Wonhyoro 3-ga, Yongsan-gu,
Seoul 140-848
KR

F8-30-94 (hex) Alcatel-Lucent Telecom Limited
F83094 (base 16) Alcatel-Lucent Telecom Limited
The Quadrant, Stonehill Green
SWINDON SN5 7DJ
GB

10-A9-32
(hex) Beijing Cyber Cloud Technology Co. ,Ltd.
10A932 (base 16) Beijing Cyber Cloud Technology Co. ,Ltd.
2/F, Tower B, Jingmeng High-tech Building. No. 5 Shangdi East Road, Haidian District.
Beijing 100085
CN

34-FC-6F (hex) ALCEA
34FC6F (base 16) ALCEA
3 Rue Joly de Bammeville
91460 Marcoussis
FR

C0-B3-57 (hex) Yoshiki Electronics Industry Ltd.
C0B357 (base 16) Yoshiki Electronics Industry Ltd.

Ooicyoyo Building 7f
Shinagawa-ku Tokyo 140-0011
JP

A8-17-58 (hex) Elektronik System i Umeå AB
A81758 (base 16) Elektronik System i Umeå AB
Box 7978
Umeå Västerbotten 907 19
SE

F4-73-CA (hex) Conversion Sound Inc.
F473CA (base 16) Conversion Sound Inc.
960 N. Northwest Hwy
Park Ridge IL 60068
US

F8-F7-FF (hex) SYN-TECH SYSTEMS INC
F8F7FF (base 16) SYN-TECH SYSTEMS INC
100 FOUR POINTS WAY
TALLAHASSEE FL 32305
US

E4-C8-06 (hex) Ceiec Electric Technology Inc.
E4C806
(base 16) Ceiec Electric Technology Inc.
8/F West Side, Building 201, Terra Industrial & Tradepark, Che Gong Miao,
Shenzhen Guangdong 518040
CN

44-2B-03 (hex) Cisco Systems, Inc
442B03 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

88-20-12 (hex) LMI Technologies
882012 (base 16) LMI Technologies
1673 Cliveden Avenue
Delta British Columbia V3M 6V5
CA

E4-77-D4 (hex) Minrray Industry Co.,Ltd
E477D4 (base 16) Minrray Industry Co.,Ltd
C5, Building 2, ZhongHaiXin ,Science&Technology Park, Ganli Rd, LiLang Blvd., Buji
Shenzhen GuangDong 518112
CN

38-E0-8E (hex) Mitsubishi Electric Corporation

38E08E (base 16) Mitsubishi Electric Corporation
2-7-3 Marunouchi Chiyoda-ku
Tokyo 100-8310
JP

08-B4-CF (hex) Abicom International
08B4CF (base 16) Abicom International
The Old Grammar School
Market Drayton Shropshire TF9 1JR
GB

7C-94-B2
(hex) Philips Healthcare PCCI
7C94B2 (base 16) Philips Healthcare PCCI
2271 Cosmos Ct
Carlsbad CA 92011
US

E0-F9-BE (hex) Cloudena Corp.
E0F9BE (base 16) Cloudena Corp.
6F., No. 5, Alley 22, Lane 513
Taipei City 114
TW

B8-8F-14 (hex) Analytica GmbH
B88F14 (base 16) Analytica GmbH
Vorholzstraße 36
Karlsruhe Baden-Württemberg 76137
DE

C4-95-A2 (hex) SHENZHEN WEIJIU INDUSTRY AND TRADE DEVELOPMENT CO., LTD
C495A2 (base 16) SHENZHEN WEIJIU INDUSTRY AND TRADE DEVELOPMENT CO., LTD
ROOM 1713,BAOHUA BUILDING, HUAQIANG NORTH ROAD, FUTIAN DISTRICT,
SHENZHEN GUANGDONG 518031
CN

8C-68-78 (hex) Nortek-AS
8C6878 (base 16) Nortek-AS
Vangkroken 2
Akreshus 1351 RUD
NO

20-25-98 (hex) Teleview
202598 (base 16) Teleview
#401 Sehwa, 355-1
Sungnam Gyeonggi 463-828
KR

38-F8-B7 (hex) V2COM PARTICIPACOES S.A.
38F8B7 (base 16) V2COM PARTICIPACOES S.A.
Rua Cunha
Gago, 700
São Paulo 05421001
BR

A0-4C-C1 (hex) Helixtech Corp.
A04CC1 (base 16) Helixtech Corp.
6F Lions bldg., 160-2 Gangnam-daero,
Seoul 137-888
KR

00-37-6D (hex) Murata Manufacturing Co., Ltd.
00376D (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

50-00-8C (hex) Hong Kong Telecommunications (HKT) Limited
50008C (base 16) Hong Kong Telecommunications (HKT) Limited
41/F, PCCW Tower, Taikoo Place,

HK

A4-90-05 (hex) CHINA GREATWALL COMPUTER SHENZHEN CO.,LTD
A49005 (base 16) CHINA GREATWALL COMPUTER SHENZHEN CO.,LTD
409,2#,Greatwall Bldg,No.3 Kefa Road,Science & Industry Park,Nanshan District,
Shenzhen Guangdong 51807
CN

C4-0A-CB (hex) Cisco Systems, Inc
C40ACB (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

D4-A0-2A (hex) Cisco Systems, Inc
D4A02A (base 16) Cisco Systems, Inc
80
West Tasman Drive
San Jose CA 94568
US

F8-D4-62 (hex) Pumatronix Equipamentos Eletronicos Ltda.
F8D462 (base 16) Pumatronix Equipamentos Eletronicos Ltda.
Rua Bartolomeu Lourenco de Gusmao 2021
Curitiba PR 81650050

BR

A0-DC-04 (hex) Becker-Antriebe GmbH
A0DC04 (base 16) Becker-Antriebe GmbH
Friedrich-Ebert-Straße 2 - 4
35764 Sinn Hessen DE811177977
DE

40-60-5A (hex) Hawkeye Tech Co. Ltd
40605A (base 16) Hawkeye Tech Co. Ltd
13F-5, No. 736 Chung Cheng Road, Chung He
New Taipei 23511
TW

F4-87-71 (hex) Infoblox
F48771 (base 16) Infoblox
4750 Patrick Henry Drive
Santa Clara California 95054
US

E8-6D-6E (hex) voestalpine Signaling UK Ltd.
E86D6E (base 16) voestalpine Signaling UK Ltd.
Unit 1, Fulcrum 4, Solent Way
Whiteley Hampshire PO15 7FT
GB

68-16-05 (hex) Systems And Electronic Development FZCO
681605 (base 16) Systems And Electronic Development FZCO
Roundabout
no. 8
Jebel Ali free Zone Dubai P.O.Box 61129
AE

60-E9-56 (hex) Ayla Networks, Inc
60E956 (base 16) Ayla Networks, Inc
218 Morgan Lane
Menlo Park CA 94025
US

EC-11-20 (hex) FloDesign Wind Turbine Corporation
EC1120 (base 16) FloDesign Wind Turbine Corporation
Papirfabrikken 28
Silkeborg 8600
DK

F8-97-CF (hex) DAESHIN-INFORMATION TECHNOLOGY CO., LTD.
F897CF (base 16) DAESHIN-INFORMATION TECHNOLOGY CO., LTD.
6F, Chungwon Bldg., 828-5 Yuksam-Dong,Kangnam-Gu,

Seoul 135935
KR

34-A7-BA (hex) Fischer International Systems Corporation
34A7BA (base 16) Fischer International Systems Corporation
5801 Pelican Bay Boulevard #300
Naples Florida 34108
US

3C-4E-47 (hex) Etronic A/S
3C4E47 (base 16) Etronic A/S
Rødeledsvej 95
Svendborg South Denmark 5700
DK

04-63-E0 (hex) Nome Oy
0463E0 (base 16) Nome Oy
Lunkintie 9
Oulunsalo Oulun lni 90460
FI

B4-9E-E6
(hex) SHENZHEN TECHNOLOGY CO LTD
B49EE6 (base 16) SHENZHEN TECHNOLOGY CO LTD
NO34 SHILONG RD
SHENZHEN GUANGDONG 91732
CN

BC-4B-79 (hex) SensingTek
BC4B79 (base 16) SensingTek
2F, No.6-2,Dusing Rd.,Hsinchu Science Park,
Hsinchu 30078
TW

54-53-ED (hex) Sony Corporation
5453ED (base 16) Sony Corporation
Gotenyama Tec 5-1-2
Tokyo Shinagawa-ku 141-0001
JP

BC-FE-8C (hex) Altronic, LLC
BCFE8C (base 16) Altronic, LLC
712 Trumbull Ave
Girard Ohio 44420
US

64-9E-F3 (hex) Cisco Systems, Inc
649EF3 (base 16) Cisco Systems, Inc

80 West Tasman Drive
San Jose CA 94568
US

24-BB-C1 (hex) Absolute Analysis
24BBC1 (base 16) Absolute Analysis
2393 Teller Road Ste #109
Newbury Park California 91320
US

64-55-63 (hex) Intelight Inc.
645563 (base 16) Intelight Inc.
3450 S Broadmont Drive #126
Tucson Arizona 85713
US

94-3A-F0
(hex) Nokia Corporation
943AF0 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

3C-E6-24 (hex) LG Display
3CE624 (base 16) LG Display
9th, Fl., LG U+ building, 65-228, Hangangro, 3-ga, Yongsan-gu
Seoul 140-716
KR

D8-F0-F2 (hex) Zeebo Inc
D8F0F2 (base 16) Zeebo Inc
5405 Morehouse Drive
San Diego California 92121
US

9C-CA-D9 (hex) Nokia Corporation
9CCAD9 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

24-B8-8C (hex) Crenus Co.,Ltd.
24B88C (base 16) Crenus Co.,Ltd.
Mario Tower 814, 222-12
Seoul 152-050
KR

88-C3-6E (hex) Beijing Ereneben lnformation Technology Limited

88C36E (base 16) Beijing Ereneben lnformation Technology Limited
Room 14F,Building F,Honglong Central Plaza,NO,3001,Heping Road,LuoHu
ShenZhen GuangDong 518110
CN

88-E7-12 (hex) Whirlpool Corporation
88E712 (base 16) Whirlpool Corporation
750 Monte
Dr.
Benton Harbor Michigan 49022
US

D4-12-BB (hex) Quadrant Components Inc. Ltd
D412BB (base 16) Quadrant Components Inc. Ltd
Unit 5, 17/F, Metro Loft,
Kwai Chung, New Territory
HK

64-54-22 (hex) Equinox Payments
645422 (base 16) Equinox Payments
8888 E. Raintree Dr., Suite 300
Scottsdale Arizona 85260
US

08-0D-84 (hex) GECO, Inc.
080D84 (base 16) GECO, Inc.
1754 N. 48th St.
Mesa AZ 85205
US

4C-9E-80 (hex) KYOKKO ELECTRIC Co., Ltd.
4C9E80 (base 16) KYOKKO ELECTRIC Co., Ltd.
5-7-20, Motomachi-dori, Chuo-Ku
Kobe Hyogo 6500022
JP

5C-EB-4E (hex) R. STAHL HMI Systems GmbH
5CEB4E (base 16) R. STAHL HMI Systems GmbH
Im Gewerbegebiet Pesch 14
Cologne 50767
DE

34-AA-99 (hex) Nokia
34AA99 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

D8-05-2E (hex) Skyviia Corporation
D8052E (base 16) Skyviia Corporation
No. 10-1, Lixing
1st Rd., Science Park,
Hsinchu City 300
TW

80-94-6C (hex) TOKYO RADAR CORPORATION
80946C (base 16) TOKYO RADAR CORPORATION
15-7 Nishikubo-cho
Hodogaya-ku, Yokohama-shi Kanagawa 240-0022
JP

30-6E-5C (hex) Validus Technologies
306E5C (base 16) Validus Technologies
420 North Main Street
East Peoria Illinois 61611
US

C8-94-D2 (hex) Jiangsu Datang Electronic Products Co., Ltd
C894D2 (base 16) Jiangsu Datang Electronic Products Co., Ltd
NO.20
Nanjing Jiangsu 211800
CN

C8-A6-20 (hex) Nebula, Inc
C8A620 (base 16) Nebula, Inc
215 Castro St
Mountain View CA 94041
US

FC-94-6C (hex) UBIVELOX
FC946C (base 16) UBIVELOX
#1301 KOLONG Digital Villent 222-7 Guro-dong Guro-gu
SEOUL 152-777
KR

40-7B-1B (hex) Mettle Networks Inc.
407B1B (base 16) Mettle Networks Inc.
111 N. Market St STE 300
San Jose CA 95113
US

40-D5-59 (hex) MICRO S.E.R.I.
40D559
(base 16) MICRO S.E.R.I.
24, rue Henri FARMAN
TREMBLAY EN FRANCE Ile de France 93290

FR

30-6C-BE (hex) Skymotion Technology (HK) Limited
306CBE (base 16) Skymotion Technology (HK) Limited
Unit 2603, 26/F, Metropole Square,
852
HK

18-38-25 (hex) Wuhan Lingjiu High-tech Co.,Ltd.
183825 (base 16) Wuhan Lingjiu High-tech Co.,Ltd.
No.718
Wuhan Hubei 430074
CN

7C-4B-78 (hex) Red Sun Synthesis Pte Ltd
7C4B78 (base 16) Red Sun Synthesis Pte Ltd
639, #11-544
510539
SG

64-A0-E7 (hex) Cisco Systems, Inc
64A0E7 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

64-4D-70 (hex) dSPACE GmbH
644D70 (base 16) dSPACE GmbH
Rathenaustraße 26
Paderborn 33102
DE

D0-CF-5E (hex) Energy Micro AS
D0CF5E (base 16) Energy Micro AS
Sandakerveien 118
Oslo N-0484
NO

DC-C1-01 (hex) SOLiD Technologies, Inc.
DCC101 (base 16) SOLiD Technologies,
Inc.
9th Floor, SOLiD Space, Pangyoyeok-ro 220
Seongnam-si Gyeonggi-do 463-400
KR

18-03-FA (hex) IBT Interfaces
1803FA (base 16) IBT Interfaces
Im Taubhaus 19

Roedermark Hessen 63322
DE

04-6D-42 (hex) Bryston Ltd.
046D42 (base 16) Bryston Ltd.
P.O. Box 2170
Peterborough Ontario K9J 7Y4
CA

D8-E7-43 (hex) Wush, Inc
D8E743 (base 16) Wush, Inc
17F.No 268, Liancheng Rd., Zhonghe District
New Taipei City 235
TW

94-E0-D0 (hex) HealthStream Taiwan Inc.
94E0D0 (base 16) HealthStream Taiwan Inc.
16-3, Zichiang 1st Road
Jhongli, Taoyuan county 32063
TW

DC-F8-58 (hex) Lorent Networks, Inc.
DCF858 (base 16) Lorent Networks, Inc.
Third Floor, Technology Complex, HAO Science Park
Foshan Guangdong Province 528200
CN

94-0B-2D (hex) NetView Technologies(Shenzhen) Co., Ltd
940B2D (base 16) NetView Technologies(Shenzhen) Co., Ltd
RM2902,East Tower,
Nanshan Software Park
Shenzhen Guangdong 518052
CN

80-3F-5D (hex) Winstars Technology Ltd
803F5D (base 16) Winstars Technology Ltd
Block4,Taisong Industrial Park, DaLang Street, LongHua Town , Bao'an District
Shenzhen Guangdong 518109
CN

40-BF-17 (hex) Digistar Telecom. SA
40BF17 (base 16) Digistar Telecom. SA
Av. Theodomiro Porto da Fonseca, 3101
Sao Leopoldo RS 9302080
BR

78-07-38 (hex) Z.U.K. Elzab S.A.
780738 (base 16) Z.U.K. Elzab S.A.

ul. Kruczkowskiego 39
Zabrze 41-813
PL

20-37-BC (hex) Kuipers Electronic Engineering BV
2037BC (base 16) Kuipers Electronic Engineering BV
Houtkopersstraat 6
Zwijndrecht Zuid-Holland 3334 KD
NL

80-60-07 (hex) RIM
806007 (base 16) RIM
Phillip Street
Waterloo Ontario N2L 3W8
CA

04-D7-83 (hex) Y&H E&C Co.,LTD.
04D783 (base 16) Y&H E&C Co.,LTD.
1501 Daerung Technotown 224-5
Anyang-city Gyeonggi-do 431-062
KR

88-6B-76
(hex) CHINA HOPEFUL GROUP HOPEFUL ELECTRIC CO.,LTD
886B76 (base 16) CHINA HOPEFUL GROUP HOPEFUL ELECTRIC CO.,LTD
Shunde District of Foshan City, Guangdong Province, Guangxi Rong Ronggui Town Road, No. 148
Foshan GuangDong 528305
CN

78-F7-D0 (hex) Silverbrook Research
78F7D0 (base 16) Silverbrook Research
3 Montague Street
Balmain New South Wales 2041
AU

20-76-00 (hex) Actiontec Electronics, Inc
207600 (base 16) Actiontec Electronics, Inc
3301 Olcott St.
Santa Clara CA 95054
US

F0-4B-6A (hex) Scientific Production Association Siberian Arsenal, Ltd.
F04B6A (base 16) Scientific Production Association Siberian Arsenal, Ltd.
Bld.8A, Gorskiy Microdistrict
Novosibirsk 630073
RU

64-AE-0C (hex) Cisco Systems, Inc

64AE0C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E8-DA-96 (hex) Zhuhai Tianrui Electrical Power Tech. Co., Ltd.
E8DA96 (base
16) Zhuhai Tianrui Electrical Power Tech. Co., Ltd.
Minying Technology Zone, 10# Keji 1 Road, Gangwan Main Road, Tangjia
Zhuhai Guangdong 519085
CN

F0-13-C3 (hex) SHENZHEN FENDA TECHNOLOGY CO., LTD
F013C3 (base 16) SHENZHEN FENDA TECHNOLOGY CO., LTD
Fenda Hi-Tech Park, Zhoushi Road, Shiyan, Baoan
ShenZhen GuangDong 518108
CN

04-A8-2A (hex) Nokia Corporation
04A82A (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

48-9B-E2 (hex) SCI Innovations Ltd
489BE2 (base 16) SCI Innovations Ltd
16C Hurst End
Newport Pagnell Buckinghamshire MK16 9HS
GB

80-FF-A8 (hex) UNIDIS
80FFA8 (base 16) UNIDIS
4 floors(401), 144-4, Gumi-dong
Sungnam-si Gyeonggi-do 463-810
KR

B0-E5-0E (hex) NRG SYSTEMS INC
B0E50E (base 16) NRG SYSTEMS INC
PO BOX 0509
Hinesburg VT 054610509
US

48-C1-AC (hex) PLANTRONICS, INC.
48C1AC (base 16) PLANTRONICS, INC.
345 ENCINAL
STREET
SANTA CRUZ CA 95060
US

98-58-8A (hex) SYSGRATION Ltd.
98588A (base 16) SYSGRATION Ltd.
10Fl.NO.868-3.Chung Cheng Rd.
NewTaipei City 235
TW

E8-78-A1 (hex) BEOVIEW INTERCOM DOO
E878A1 (base 16) BEOVIEW INTERCOM DOO
TRESNJINOG CVETA 5/17
BELGRADE 11070
RS

CC-EF-48 (hex) Cisco Systems, Inc
CCEF48 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

24-37-EF (hex) EMC Electronic Media Communication SA
2437EF (base 16) EMC Electronic Media Communication SA
Via Cantonale 4
S. Antonino Ticino 6592
CH

94-31-9B (hex) Alphatronics BV
94319B (base 16) Alphatronics BV
Watergoorweg 71
NIJKERK Gld 3861 MA
NL

E4-35-FB (hex) Sabre Technology (Hull) Ltd
E435FB (base 16) Sabre Technology (Hull) Ltd
3a Newlands Science Park
Hull East Yorkshire HU6 7TQ
GB

C8-3B-45 (hex) JRI
C83B45 (base 16) JRI
16 rue louis rameau
Bezons
Cedex 95872
FR

C0-58-A7 (hex) Pico Systems Co., Ltd.
C058A7 (base 16) Pico Systems Co., Ltd.
332-7 Kouya
Matsudo Chiba pref. 270-0017

JP

EC-3F-05 (hex) Institute 706, The Second Academy China Aerospace Science & Industry Corp
EC3F05 (base 16) Institute 706, The Second Academy China Aerospace Science & Industry Corp
YongDing Road ,HaiDian District.BeiJing ,No.51
BeiJing 100854
CN

EC-62-64 (hex) Global411 Internet Services, LLC
EC6264 (base 16) Global411 Internet Services, LLC
10400 W Overland Rd #371
Boise Idaho 83709
US

00-F0-51 (hex) KWB Gmbh
00F051 (base 16) KWB Gmbh
Industriestraße 235
St. Margarethen Styria 8321
AT

00-E1-75 (hex) AK-Systems Ltd
00E175 (base 16) AK-Systems Ltd
off 62, 27/29 Pavlovskaya str.
Moscow 115093
RU

CC-50-1C (hex) KVH Industries, Inc.
CC501C (base 16) KVH Industries, Inc.
50 Enterprise Center
Middletown RI 02842-5279
US

28-B0-CC
(hex) Xenya d.o.o.
28B0CC (base 16) Xenya d.o.o.
Celovska cesta 172
Ljubljana 1000
SI

20-5B-5E (hex) Shenzhen Wonhe Technology Co., Ltd
205B5E (base 16) Shenzhen Wonhe Technology Co., Ltd
South Block 10th floor, Yuanxing Building, No. 1
Shenzhen Guangdong 518057
CN

DC-2E-6A (hex) HCT. Co., Ltd.
DC2E6A (base 16) HCT. Co., Ltd.
105-1, Jangam-ri, Majang-myen

Icheon-si Gyeonggi-do 467-811
KR

14-8A-70 (hex) ADS GmbH
148A70 (base 16) ADS GmbH
Im Rohnweiher 39
Lohmar Germany D-53797
DE

54-94-78 (hex) Silvershore Technology Partners
549478 (base 16) Silvershore Technology Partners
800 High Street
Palo Alto CA 94301
US

10-71-F9 (hex) Cloud Telecomputers, LLC
1071F9 (base 16) Cloud Telecomputers, LLC
1032 Elwell Court
Palo Alto CA 94303
US

B8-62-1F (hex) Cisco Systems, Inc
B8621F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San
Jose CA 94568
US

FC-E8-92 (hex) Hangzhou Lancable Technology Co.,Ltd
FCE892 (base 16) Hangzhou Lancable Technology Co.,Ltd
Zone A,Floor 16,Zhongcai Building,68#,Tonghe Road,Binjiang District,
Hangzhou Zhejiang 310051
CN

D4-53-AF (hex) VIGO System S.A.
D453AF (base 16) VIGO System S.A.
129/133 Poznanska str
Ozarow Mazowiecki Mazowieckie 05-850
PL

B4-D8-DE (hex) iota Computing, Inc.
B4D8DE (base 16) iota Computing, Inc.
2275 East Bayshore Road
Palo Alto CA 94303-3222
US

C8-90-3E (hex) Pakton Technologies
C8903E (base 16) Pakton Technologies

1 Helium St
Narangba QLD 4504
AU

54-CD-A7 (hex) Fujian Shenzhou Electronic Co.,Ltd
54CDA7 (base 16) Fujian Shenzhou Electronic Co.,Ltd
Quanzhou Economical&Technological Development Zone,Quanzhou,Fujian,China
QUANZHOU FUJIAN 362005
CN

18-AD-4D (hex) Polostar Technology Corporation
18AD4D (base 16) Polostar Technology
Corporation
2F, No.351, Yangguang St.
Taipei 11491
TW

94-C6-EB (hex) NOVA electronics, Inc.
94C6EB (base 16) NOVA electronics, Inc.
Grand Axe Bldg. 3F.
Shibuya-ku Tokyo 151-0064
JP

E4-4E-18 (hex) Gardasoft VisionLimited
E44E18 (base 16) Gardasoft VisionLimited
Units 1 and 2, Castle Acres
Cambridge CB23 4JQ
GB

20-46-A1 (hex) VECOW Co., Ltd
2046A1 (base 16) VECOW Co., Ltd
7F., No.105, Zhongcheng Rd., Tucheng Dist.,
New Taipei City 23674
TW

FC-01-CD (hex) FUNDACION TEKNIKER
FC01CD (base 16) FUNDACION TEKNIKER
Avenida Otaola, 20
Eibar Gipuzkoa 20600
ES

A0-6E-50 (hex) Nanotek Elektronik Sistemler Ltd. Sti.
A06E50 (base 16) Nanotek Elektronik Sistemler Ltd. Sti.
Ivedik Organize Sanayi
Ankara 06370
TR

84-24-8D (hex) Zebra Technologies Inc

84248D (base 16) Zebra Technologies Inc
475 Half Day Road
Lincolnshire IL 60069
US

9C-8B-F1 (hex) The
Warehouse Limited
9C8BF1 (base 16) The Warehouse Limited
Suite 601, City Point, 1600 Zhonghua Road, Huangpu District
Shanghai 200010
CN

00-B3-38 (hex) Kontron Asia Pacific Design Sdn. Bhd
00B338 (base 16) Kontron Asia Pacific Design Sdn. Bhd
Plot 554, Lorong Perusahaan 4
Prai Free Trade Zone Prai, Penang 13600
MY

B8-28-8B (hex) Parker Hannifin Manufacturing (UK) Ltd
B8288B (base 16) Parker Hannifin Manufacturing (UK) Ltd
Condition Monitoring Centre
Thetford Norfolk IP24 1HP
GB

90-D1-1B (hex) Palomar Medical Technologies
90D11B (base 16) Palomar Medical Technologies
15 Network Drive
Burlington MA 01803
US

EC-BD-09 (hex) FUSION Electronics Ltd
ECBD09 (base 16) FUSION Electronics Ltd
PO Box 137 - 142
Auckland 1151
NZ

94-46-96 (hex) BaudTec Corporation
944696 (base 16) BaudTec Corporation
12F, No.181, Sec.1.Tatung Rd.
Hsi-chih Taipei 221
TW

34-A5-5D
(hex) TECHNOSOFT INTERNATIONAL SRL
34A55D (base 16) TECHNOSOFT INTERNATIONAL SRL
RO6640904
Bucuresti - Sector 6 061992
RO

4C-77-4F (hex) Embedded Wireless Labs
4C774F (base 16) Embedded Wireless Labs
702 Level 7 Uptown 2 No.2
Petaling Jaya Selangor 47400
MY

D0-C2-82 (hex) Cisco Systems, Inc
D0C282 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

14-7D-B3 (hex) JOA TELECOM.CO.,LTD
147DB3 (base 16) JOA TELECOM.CO.,LTD
1007,Sicox tower,513-14,Sangdaewon-dong,Jungwon-gu
Seongnam-si Gyeonggi-do 462-806
KR

3C-27-63 (hex) SLE quality engineering GmbH & Co. KG
3C2763 (base 16) SLE quality engineering GmbH & Co. KG
Josef-Buchinger-Str. 9
Grafenau Bavaria 94481
DE

B0-F1-BC (hex) Dhemax Ingenieros Ltda
B0F1BC (base 16) Dhemax Ingenieros Ltda
Siete Oriente 1234
Vina del Mar Region de Valparaiso 2530954
CL

54-84-7B (hex) Digital Devices
GmbH
54847B (base 16) Digital Devices GmbH
Moewestr 45 A
Muenchen 81827
DE

C8-32-32 (hex) Hunting Innova
C83232 (base 16) Hunting Innova
8383 N Sam Houston Pkwy West
Houston Texas 77064
US

F0-02-2B (hex) Chrontel
F0022B (base 16) Chrontel
2210 OToole Ave., Suite 100
San Jose CA 95131

US

84-3F-4E (hex) Tri-Tech Manufacturing, Inc.
843F4E (base 16) Tri-Tech Manufacturing, Inc.
333 Turbine Drive
Rapid City SD 57703
US

34-BC-A6 (hex) Beijing Ding Qing Technology, Ltd.
34BCA6 (base 16) Beijing Ding Qing Technology, Ltd.
218 Han Tai Hua Office Building, 13 Huan Yuan Lu,
Haidian District Beijing 100083
CN

58-35-D9 (hex) Cisco Systems, Inc
5835D9 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

64-D9-12 (hex) Solidica, Inc.
64D912 (base 16) Solidica, Inc.
5840 Interface Drive
Ann Arbor Michigan 48103
US

C4-7B-2F
(hex) Beijing JoinHope Image Technology Ltd.
C47B2F (base 16) Beijing JoinHope Image Technology Ltd.
624 Room .Automation Building.95# Zhong Guancun East Road.Haidian District
Beijing 100190
CN

70-4A-AE (hex) Xstream Flow (Pty) Ltd
704AAE (base 16) Xstream Flow (Pty) Ltd
Room 123, Building 16, CSIR campus
Pretoria Gauteng 0184
ZA

40-B3-FC (hex) Logital Co. Limited
40B3FC (base 16) Logital Co. Limited
Rm 901-902, 9/F, Nathan Centre,
Kowloon
HK

50-8A-CB (hex) SHENZHEN MAXMADE TECHNOLOGY CO., LTD.
508ACB (base 16) SHENZHEN MAXMADE TECHNOLOGY CO., LTD.
Building 3,No.5 Fuqiao Industrial Estate,

Shenzhen Guangdong 518103
CN

80-2E-14 (hex) azeti Networks AG
802E14 (base 16) azeti Networks AG
Am Brambusch 1a
Luenen NRW 44536
DE

D4-C1-FC (hex) Nokia Corporation
D4C1FC (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

3C-D1-6E (hex) Telepower
Communication Co., Ltd
3CD16E (base 16) Telepower Communication Co., Ltd
5/F,Zonghe Building, Hantian Technology Town,Guiping RD,Nanhai District,F
Foshan City Guangdong 528251
CN

FC-2E-2D (hex) Lorom Industrial Co.LTD.
FC2E2D (base 16) Lorom Industrial Co.LTD.
F1.13,Rm.2,No.78,Sec.2,An-HoRd.
Taipei 106
TW

40-04-0C (hex) A&T
40040C (base 16) A&T
#411, Will Town, 402-3
Bucheon-Si Gyeonggi-Do 420-814
KR

DC-3C-84 (hex) Ticom Geomatics, Inc.
DC3C84 (base 16) Ticom Geomatics, Inc.
9130 Jollyville Rd. Ste. 300
Austin Texas 78759
US

D0-13-1E (hex) Sunrex Technology Corp
D0131E (base 16) Sunrex Technology Corp
No. 188-1,Chung Cheng Road.,Ta Ya Shiang
Taichung 428
TW

7C-4A-82 (hex) Portsmith LLC
7C4A82 (base 16) Portsmith LLC

850 E. Franklin Road
Meridian ID 83642
US

2C-00-33 (hex) EControls, LLC
2C0033 (base 16) EControls, LLC
5757 Farinon
Dr
San Antonio TX 78249
US

AC-19-9F (hex) SUNGROW POWER SUPPLY CO.,LTD.
AC199F (base 16) SUNGROW POWER SUPPLY CO.,LTD.
NO.2 Tianhu Road, New and High Technology Industrial Development Zone
Hefei Anhui 230088
CN

00-FC-70 (hex) Intrepid Control Systems, Inc.
00FC70 (base 16) Intrepid Control Systems, Inc.
1850 Research Drive
Troy MI 48083
US

70-3A-D8 (hex) Shenzhen Afoundry Electronic Co., Ltd
703AD8 (base 16) Shenzhen Afoundry Electronic Co., Ltd
201, A Building, Bole Industrial Zone, Bantian, Longgang District
Shenzhen Guangdong 518129
CN

88-F0-77 (hex) Cisco Systems, Inc
88F077 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

B0-99-28 (hex) FUJITSU LIMITED
B09928 (base 16) FUJITSU LIMITED
403, Kosugi-cho 1-chome, Nakahara-ku
Kawasaki Kanagawa 211-0063
JP

04-E1-C8 (hex) IMS Soluções em Energia Ltda.
04E1C8 (base 16) IMS Soluções em
Energia Ltda.
Av. Bernardino Silveira Pastoriza, 720
Porto Alegre RS 91160-310
BR

AC-5E-8C (hex) Utillink
AC5E8C (base 16) Utillink
817 Woolim Lions Valley 1, 311-3 Sangdaewon-dong Jungwon-gu
Seongnam-si Gyeonggi-do 462160
KR

58-75-21 (hex) CJSC RTSoft
587521 (base 16) CJSC RTSoft
Nikitinskaya str., 3
Moscow 105037
RU

94-8F-EE (hex) Verizon Telematics
948FEE (base 16) Verizon Telematics
2002 Summit Blvd
Atlanta GA 30319
US

50-D6-D7 (hex) Takahata Precision
50D6D7 (base 16) Takahata Precision
4-17-1 Suniyoshi
Kofu 400-0851
JP

94-E8-48 (hex) FYLDE MICRO LTD
94E848 (base 16) FYLDE MICRO LTD
8 AVROE CRESCENT
BLACKPOOL LANCASHIRE FY4 2DP
GB

C4-0F-09 (hex) Hermes electronic GmbH
C40F09 (base 16) Hermes electronic GmbH
Am Handwerkerpark 1
Essen NRW 45309
DE

48-F4-7D (hex) TechVision Holding Internation Limited
48F47D (base 16) TechVision
Holding Internation Limited
Offshore Incorporations Centre
Road Town Tortola VG1110
VG

F0-81-AF (hex) IRZ AUTOMATION TECHNOLOGIES LTD
F081AF (base 16) IRZ AUTOMATION TECHNOLOGIES LTD
Unit 9-10 27/F Seapower Tower
Kowloon
HK

70-14-04 (hex) Limited Liability Company
701404 (base 16) Limited Liability Company
I.Yakovleva St., 1
Cheboksary Chuvash Republic 428003
RU

1C-35-F1 (hex) NEW Lift Neue Elektronische Wege Steuerungsbau GmbH
1C35F1 (base 16) NEW Lift Neue Elektronische Wege Steuerungsbau GmbH
Lochhamer Schlag 8
Graefelfing Bavaria 82166
DE

F0-AE-51 (hex) Xi3 Corp
F0AE51 (base 16) Xi3 Corp
299 S. Main St.
Salt Lake City UT 84111
US

B8-0B-9D (hex) ROPEX Industrie-Elektronik GmbH
B80B9D (base 16) ROPEX Industrie-Elektronik GmbH
Adolf-Heim-Str. 4
Bietigheim-Bissingen Baden Wuerttemberg 74321
DE

50-70-E5 (hex) He Shan World Fair Electronics Technology
Limited
5070E5 (base 16) He Shan World Fair Electronics Technology Limited
New Material Base, Gonghe Town
Jiangmen Guangdong 529728
CN

80-22-75 (hex) Beijing Beny Wave Technology Co Ltd
802275 (base 16) Beijing Beny Wave Technology Co Ltd
No.55, Jiachuang Road
Tongzhou District Beijing 101111
CN

98-30-00 (hex) Beijing KEMACOM Technologies Co., Ltd.
983000 (base 16) Beijing KEMACOM Technologies Co., Ltd.
Room 208, Building 6, No.50, Xi San Huan Bei Road
Beijing 100044
CN

90-CF-15 (hex) Nokia Corporation
90CF15 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570

FI

94-8B-03 (hex) EAGET Innovation and Technology Co., Ltd.
948B03 (base 16) EAGET Innovation and Technology Co., Ltd.
3/F, Building 4, Lianchuang Technology Park,Buji Town,
Shenzhen Guangdong 518112
CN

14-A9-E3 (hex) MST CORPORATION
14A9E3 (base 16) MST CORPORATION
4th Floor Lawford House
London
England N3 1 RL
GB

5C-0C-BB (hex) CELIZION Inc.
5C0CBB (base 16) CELIZION Inc.
#206 Lordland EZ Tower, GuMi-Dong 153 BunDang-Gu
SeongNam-Si GyeongGi-Do 463-870
KR

18-E2-88 (hex) STT Condigi
18E288 (base 16) STT Condigi
Agnesfridsvagen 113 A
Malmö Skåne 21237
SE

B4-35-F7 (hex) Zhejiang Pearmain Electronics Co.ltd.
B435F7 (base 16) Zhejiang Pearmain Electronics Co.ltd.
4F Yitai Mansion, 76 Gucui Road,
Hangzhou Zhejiang 310012
CN

98-66-EA (hex) Industrial Control Communications, Inc.
9866EA (base 16) Industrial Control Communications, Inc.
1600 Aspen Commons
Middleton WI 53562
US

24-C8-6E (hex) Chaney Instrument Co.
24C86E (base 16) Chaney Instrument Co.
965 Wells Street
Lake Geneva WI 53147
US

C4-24-2E (hex) Galvanic Applied Sciences Inc
C4242E (base 16) Galvanic Applied Sciences Inc
7000 Fisher Road SE

Calgary Alberta T2H 0W3
CA

F8-EA-0A
(hex) Dipl.-Math. Michael Rauch
F8EA0A (base 16) Dipl.-Math. Michael Rauch
Kapellenstraße 31
Bretten BaWü 75015
DE

80-34-57 (hex) OT Systems Limited
803457 (base 16) OT Systems Limited
Unit 1023, 10/F., Landmark North,
Sheung Shui, N. T.
HK

CC-F3-A5 (hex) Chi Mei Communication Systems, Inc
CCF3A5 (base 16) Chi Mei Communication Systems, Inc
No.4
Tucheng City Taipei County 23678
TW

30-61-18 (hex) Paradom Inc.
306118 (base 16) Paradom Inc.
8F, N0. 178, Sec-2, Gongdaowu Rd.
Hsinchu City 300
TW

4C-73-67 (hex) Genius Bytes Software Solutions GmbH
4C7367 (base 16) Genius Bytes Software Solutions GmbH
Merianstraße 30
Bochum NRW 44801
DE

38-31-AC (hex) WEG
3831AC (base 16) WEG
Av. Pref. Waldemar Grubba, 3000
Jaraguá do Sul Santa Catarina 89256-900
BR

58-4C-19 (hex) Chongqing Guohong Technology Development Company Limited
584C19 (base 16) Chongqing
Guohong Technology Development Company Limited
Rongzhi Building, Science & Technology Venture Center,
Chongqing 401336
CN

64-69-BC (hex) Hytera Communications Co .,ltd

6469BC (base 16) Hytera Communications Co .,ltd
HYT Tower ,Hi-Tech Industrial Park North,Nanshan District,
Shenzhen Guangdong 518057
CN

B4-F3-23 (hex) PETATEL INC.
B4F323 (base 16) PETATEL INC.
#322 THE O VILLE 720-25, YEOKSAM-DONG
GANGNAM-GU SEOUL 135080
KR

14-C2-1D (hex) Sabtech Industries
14C21D (base 16) Sabtech Industries
23231 La Palma Ave
Yorba Linda Ca. 92887-4788
US

40-F4-EC (hex) Cisco Systems, Inc
40F4EC (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

14-B7-3D (hex) ARCHEAN Technologies
14B73D (base 16) ARCHEAN Technologies
1899 avenue d'Italie
MONTAUBAN 82000
FR

94-8D-50 (hex) Beamex Oy Ab
948D50 (base 16) Beamex Oy Ab
Ristisuonraitti 10
Pietarsaari
FI-68600
FI

A4-33-D1 (hex) Fibrlink Communications Co.,Ltd.
A433D1 (base 16) Fibrlink Communications Co.,Ltd.
28F Ages Wealth World, No.1 Hangfeng Road
Beijing 100070
CN

FC-10-BD (hex) Control Sistematizado S.A.
FC10BD (base 16) Control Sistematizado S.A.
Cra 43 N 31 52
Medellin Antioquia 10101
CO

F0-C2-7C (hex) Mianyang Netop Telecom Equipment Co.,Ltd.
F0C27C (base 16) Mianyang Netop Telecom Equipment Co.,Ltd.
No.111,East section of Puming South Road,
Mianyang City Sichuan Province, 621000
CN

28-34-10 (hex) Enigma Diagnostics Limited
283410 (base 16) Enigma Diagnostics Limited
Building 224
DSTL Porton Down Salisbury SP4 0JQ
GB

0C-E8-2F (hex) Bonfiglioli Vectron GmbH
0CE82F (base 16) Bonfiglioli Vectron GmbH
Europark Fichtenhain B6
Krefeld NRW 47807
DE

84-D9-C8 (hex) Unipattern Co.,
84D9C8 (base 16) Unipattern Co.,
16F., No.30., Beiping
E. Rd., Zhongzheng Dist.,
Taipei 100
TW

94-AA-B8 (hex) Joview(Beijing) Technology Co. Ltd.
94AAB8 (base 16) Joview(Beijing) Technology Co. Ltd.
Room 302, South Building
Beijing 100081
CN

28-F3-58 (hex) 2C - Trifonov & Co
28F358 (base 16) 2C - Trifonov & Co
133, Tsarigradsko Shose Blvd, BIZ IZOT,
Sofia 1784
BG

30-1A-28 (hex) Mako Networks Ltd
301A28 (base 16) Mako Networks Ltd
1355 North Maclean Blvd
Elgin IL 60123
US

C8-84-39 (hex) Sunrise Technologies
C88439 (base 16) Sunrise Technologies
54 Commercial Street
Raynham MA 02767
US

EC-7D-9D (hex) CPI
EC7D9D (base 16) CPI
3222 Phoenixville Pike Suite 200
Malvern PA 19355
US

C8-1E-8E (hex) ADV Security (S) Pte Ltd
C81E8E (base 16) ADV Security (S) Pte Ltd
56 Dunlop Street
209386
SG

F0-BF-97 (hex) Sony Corporation
F0BF97 (base 16) Sony Corporation
Gotenyama Tec 5-1-2
Tokyo
Shinagawa-ku 141-0001
JP

C4-4A-D0 (hex) FIREFLIES SYSTEMS
C44AD0 (base 16) FIREFLIES SYSTEMS
3 CHEMIN DU PRE CARRE
MEYLAN 38240
FR

88-E0-A0 (hex) Shenzhen VisionSTOR Technologies Co., Ltd
88E0A0 (base 16) Shenzhen VisionSTOR Technologies Co., Ltd
12/F, East Tower,Nanshan Software Park
Shenzhen Guangdong 518000
CN

90-EA-60 (hex) SPI Lasers Ltd
90EA60 (base 16) SPI Lasers Ltd
6 wellington Park
Southampton Hampshire S0302QU
GB

14-F0-C5 (hex) Xtremio Ltd.
14F0C5 (base 16) Xtremio Ltd.
POB 5246
Herzelyia 46152
IL

E8-C2-29 (hex) H-Displays (MSC) Bhd
E8C229 (base 16) H-Displays (MSC) Bhd
No. 31 & 32, Jalan Gangsa Dua
Johor Bahru 81700

MY

3C-A7-2B (hex) MRV Communications (Networks) LTD
3CA72B (base 16) MRV Communications (Networks) LTD
P.O Box 614
Yokneam 20692
IL

28-51-32 (hex) Shenzhen Prayfly Technology Co.,Ltd
285132 (base 16) Shenzhen
Prayfly Technology Co.,Ltd
16F B International Chamber of Commerce Building
Shenzhen Guangdong Province 518048
CN

E4-2F-F6 (hex) Unicore communication Inc.
E42FF6 (base 16) Unicore communication Inc.
Rm.312 Building 2 IRICO, No.11St.4,Shangdi, Haidian District,
Beijing 100085
CN

A8-87-92 (hex) Broadband Antenna Tracking Systems
A88792 (base 16) Broadband Antenna Tracking Systems
8902 Vincennes Circle, Suite D-2
Indianapolis IN 46268
US

04-E6-62 (hex) Acroname Inc.
04E662 (base 16) Acroname Inc.
4822 Sterling Drive
Boulder CO 80301-2350
US

F8-7B-8C (hex) Amped Wireless
F87B8C (base 16) Amped Wireless
13089 Peyton Dr. #C307
Chino Hills CA 91709
US

24-1A-8C (hex) Squarehead Technology AS
241A8C (base 16) Squarehead Technology AS
PO Box 13 Nydalen
Oslo NO-0410
NO

D4-4F-80 (hex) Kemper Digital GmbH
D44F80 (base 16) Kemper Digital GmbH
Koenigswall

16-18
Recklinghausen North-Rhine-Westphalia 45657
DE

A4-1B-C0 (hex) Fastec Imaging Corporation
A41BC0 (base 16) Fastec Imaging Corporation
17150 Via Del Campo
San Diego California 92127
US

20-5B-2A (hex) Private
205B2A (base 16) Private

F4-03-21 (hex) BeNeXt B.V.
F40321 (base 16) BeNeXt B.V.
Ter Gouwstraat 3
Amsterdam NH 1093JX
NL

A0-71-A9 (hex) Nokia Corporation
A071A9 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

A4-E3-2E (hex) Silicon & Software Systems Ltd.
A4E32E (base 16) Silicon & Software Systems Ltd.
South County Business Park
Leopardstown Dublin 18
IE

5C-BD-9E (hex) HONGKONG MIRACLE EAGLE TECHNOLOGY(GROUP) LIMITED
5CBD9E (base 16) HONGKONG MIRACLE EAGLE TECHNOLOGY(GROUP) LIMITED
FLAT RM 2103, EASEY COMMERCIAL BLDG,253-261 HENNESSY RD,
WANCHAI 999077
HK

08-E6-72 (hex) JEBSEE ELECTRONICS CO.,LTD.
08E672 (base
16) JEBSEE ELECTRONICS CO.,LTD.
24-3, SIN LE ROAD,
TAINAN 70268
TW

B8-E5-89 (hex) Payter BV
B8E589 (base 16) Payter BV
Rozenlaan 115
Rotterdam Zuid-Holland 3051 LP

NL

64-DC-01 (hex) Static Systems Group PLC
64DC01 (base 16) Static Systems Group PLC
Heathmill Road
Wolverhampton West Midlands WV5 8AN
GB

60-76-88 (hex) Velodyne
607688 (base 16) Velodyne
345 Digital Drive
Morgan Hill CA 95037
US

C8-C1-26 (hex) ZPM Industria e Comercio Ltda
C8C126 (base 16) ZPM Industria e Comercio Ltda
Rua Araguaia, 175
Canoas RS 92410-000
BR

64-DE-1C (hex) Kingnetic Pte Ltd
64DE1C (base 16) Kingnetic Pte Ltd
47 Kaki Bukit Place
416225
SG

44-68-AB (hex) JUIN COMPANY, LIMITED
4468AB (base 16) JUIN COMPANY, LIMITED
2FL, 1075-1, Wonpyeong-Dong
Gumi City Gyeongsangbuk-Do 730-010
KR

F8-10-37 (hex) Atopia Systems, LP
F81037 (base 16) Atopia Systems,
LP
681 N. Plano Road
Richardson TX 75082
US

78-A6-83 (hex) Precidata
78A683 (base 16) Precidata
CP 672
2002 NE 2002
CH

FC-1F-C0 (hex) EURECAM
FC1FC0 (base 16) EURECAM
BAT 9 - Miniparc

LES ULIS 91940
FR

A8-62-A2 (hex) JIWUMEDIA CO., LTD.
A862A2 (base 16) JIWUMEDIA CO., LTD.
#902, Daerug Techno Town 13'th, 664
Geumcheon-gu Seoul 153-803
KR

98-4E-97 (hex) Starlight Marketing (H. K.) Ltd.
984E97 (base 16) Starlight Marketing (H. K.) Ltd.
5/F., Shing Dao Industrial Building,

HK

78-CD-8E (hex) SMC Networks Inc
78CD8E (base 16) SMC Networks Inc
20 Mason
Irvine CA 92618
US

2C-80-65 (hex) HARTING Inc. of North America
2C8065 (base 16) HARTING Inc. of North America
1370 Bowes Road
Elgin Illinois 60123
US

3C-C0-C6 (hex) d&b audiotechnik GmbH
3CC0C6 (base 16) d&b audiotechnik GmbH
Eugen Adolff Str 134
Backnang Baden Wuerttemberg
71522
DE

F0-25-72 (hex) Cisco Systems, Inc
F02572 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

04-FF-51 (hex) NOVAMEDIA INNOVISION SP. Z O.O.
04FF51 (base 16) NOVAMEDIA INNOVISION SP. Z O.O.
WODNA 7
KALISZ WIELKOPOLSKA 62-800
PL

4C-B4-EA (hex) HRD (S) PTE., LTD.
4CB4EA (base 16) HRD (S) PTE., LTD.

Lot 7, Block 9, Phase 1, Cavite Eco-Zone,
Rosario Cavite 4106
PH

D4-4C-24 (hex) Vuppalamritha Magnetic Components LTD
D44C24 (base 16) Vuppalamritha Magnetic Components LTD
3rd Floor, 307 ,My Home Ashoka Chambers,S.P Road,
Secunderabad AndhraPradesh 500003
IN

80-91-C0 (hex) AgileMesh, Inc.
8091C0 (base 16) AgileMesh, Inc.
1671 International Pkwy
Richardson TX 75081
US

F8-C6-78 (hex) Carefusion
F8C678 (base 16) Carefusion
10020 Pacific Mesa Blvd
San Diego CA 92121
US

6C-AB-4D (hex) Digital Payment Technologies
6CAB4D
(base 16) Digital Payment Technologies
4105 Grandview Hwy
Burnaby BC V5C 6B4
CA

2C-B0-DF (hex) Soliton Technologies Pvt Ltd
2CB0DF (base 16) Soliton Technologies Pvt Ltd
683, 15th Cross
Bangalore Karnataka 560 078
IN

EC-E5-55 (hex) Hirschmann Automation
ECE555 (base 16) Hirschmann Automation
Stuttgarter Straße 45-51
Neckartenzlingen Baden-Württemberg 72654
DE

58-F9-8E (hex) SECUDOS GmbH
58F98E (base 16) SECUDOS GmbH
Rhenus-Platz 2
Holzwickede NRW 59439
DE

08-4E-BF (hex) Sumitomo Electric Industries, Ltd

084EBF (base 16) Sumitomo Electric Industries, Ltd
1-1-3, Shimaya, Konohana-ku
Osaka 554-0024
JP

AC-02-CF (hex) RW Tecnologia Industria e Comercio Ltda
AC02CF (base 16) RW Tecnologia Industria e Comercio Ltda
Centro Empresarial Paulo Frederico de Toledo, 80 A
Santa Rita do Sapucai Minas Gerais 37540000
BR

B4-C4-4E (hex) VXL eTech Pvt Ltd
B4C44E
(base 16) VXL eTech Pvt Ltd
#91, 11th Main, Begur Main Road
Bangalore Karnataka 560068
IN

70-7E-DE (hex) NASTEC LTD.
707EDE (base 16) NASTEC LTD.
111-D, Krasnorechenskaya str.
Khabarovsk 680006
RU

E0-5F-B9 (hex) Cisco Systems, Inc
E05FB9 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

BC-67-84 (hex) Environics Oy
BC6784 (base 16) Environics Oy
Graanintie 5
Mikkeli 50190
FI

68-DC-E8 (hex) PacketStorm Communications
68DCE8 (base 16) PacketStorm Communications
20 Meridian Rd
Eatontown NJ 07724
US

48-8E-42 (hex) DIGALOG GmbH
488E42 (base 16) DIGALOG GmbH
Wattstraße 11-13
Berlin D-13355
DE

B4-74-9F (hex) ASKEY COMPUTER CORP
B4749F (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585
TW

7C-4A-A8 (hex) MindTree Wireless PVT Ltd
7C4AA8 (base 16) MindTree Wireless PVT Ltd
LGF,
Phase III, Mindtree West Campus,
Bangalore Karnataka 560 059
IN

E0-14-3E (hex) Modoosis Inc.
E0143E (base 16) Modoosis Inc.
#302, Samil Bldg., 656-282
Seoul 133-110
KR

C0-7E-40 (hex) SHENZHEN XDK COMMUNICATION EQUIPMENT CO.,LTD
C07E40 (base 16) SHENZHEN XDK COMMUNICATION EQUIPMENT CO.,LTD
XDK BUILDING,NO.1 INDUSTRIAL AREA,BANTIAN,LONGGANG DISTRICT
SHENZHEN GUANGDONG 518129
CN

E4-4F-29 (hex) MA Lighting Technology GmbH
E44F29 (base 16) MA Lighting Technology GmbH
Dachdeckerstraße16
Waldbüttelbrunn Bavaria 97297
DE

D4-12-96 (hex) Anobit Technologies Ltd.
D41296 (base 16) Anobit Technologies Ltd.
8 Hasadnaot St.
Herzeliya Pituach 46728
IL

08-76-FF (hex) Thomson Telecom Belgium
0876FF (base 16) Thomson Telecom Belgium
Prins Boudewijnlaan 47
Edegem Antwerp B-2650
BE

34-9A-0D (hex) ZBD Displays Ltd
349A0D (base 16) ZBD Displays Ltd
Orchard
Lea
Windsor Berkshire SL4 4RU

GB

90-D8-52 (hex) Comtec Co., Ltd.
90D852 (base 16) Comtec Co., Ltd.
3F., No.81, Jiankang Rd.,
Zhonghe City Taipei County 23586
TW

38-01-97 (hex) TSST Global,Inc
380197 (base 16) TSST Global,Inc
14 Floor, Bldg. No. 102, Digital Empire2, 486, Sin-dong, Yeongtong-gu, Suwon-si,
Su-won Gyeonggi 443-734
KR

20-AA-25 (hex) IP-NET LLC
20AA25 (base 16) IP-NET LLC
10256 N.W. 47th St.
Sunrise FL 33351
US

1C-7C-11 (hex) EID
1C7C11 (base 16) EID
Rua Quinta dos Medronheiros
Charneca da Caparica 2820-486
PT

48-17-4C (hex) MicroPower technologies
48174C (base 16) MicroPower technologies
4225 Executive Sq.
La Jolla California 92037
US

58-8D-09 (hex) Cisco Systems, Inc
588D09 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

C0-C1-C0 (hex) Cisco-Linksys, LLC
C0C1C0 (base 16) Cisco-Linksys, LLC
121
Theory Drive
Irvine California 92612
US

90-50-7B (hex) Advanced PANMOBIL Systems GmbH & Co. KG
90507B (base 16) Advanced PANMOBIL Systems GmbH & Co. KG
Hansestraße 91

Cologne NRW 51149
DE

60-15-C7 (hex) IdaTech
6015C7 (base 16) IdaTech
63065 NE 18th St.
Bend OR 97701
US

1C-83-B0 (hex) Linked IP GmbH
1C83B0 (base 16) Linked IP GmbH
Kirchenstrasse 9
Anif / Niederalm SBG 5081
AT

A4-D1-D1 (hex) ECOtality North America
A4D1D1 (base 16) ECOtality North America
430 S 2nd Avenue
Phoenix AZ 85003
US

C4-93-13 (hex) 100fio networks technology llc
C49313 (base 16) 100fio networks technology llc
2534 crescent st. apt 3F
Astoria New york 11102
US

68-59-7F (hex) Alcatel Lucent
68597F (base 16) Alcatel Lucent
Via Energy Park, 14
Vimercate MB 20871
IT

F0-65-DD (hex) Primax Electronics Ltd.
F065DD (base 16) Primax Electronics Ltd.
669,
Ruey Kuang Road, Neihu
Taipei 114
TW

94-33-DD (hex) Taco Inc
9433DD (base 16) Taco Inc
1160 Cranston Street
Cranston RI 02920
US

E0-CF-2D (hex) Gemintek Corporation
E0CF2D (base 16) Gemintek Corporation

5F-1, No.8, Alley 30, Lane 358, Rueiguang Rd.
Taipei 114
TW

C4-EE-F5 (hex) II-VI Incorporated
C4EEF5 (base 16) II-VI Incorporated
Network Solutions,343 Daniel Zenker Dr., Suite 102
Horseheads NY 14845
US

D4-91-AF (hex) Electroacustica General Iberica, S.A.
D491AF (base 16) Electroacustica General Iberica, S.A.
Avda. Almozara, 79
Zaragoza 50003
ES

C4-B5-12 (hex) General Electric Digital Energy
C4B512 (base 16) General Electric Digital Energy
4200 Wildwood Pkwy
Atlanta GA 30339
US

E0-25-38 (hex) Titan Pet Products
E02538 (base 16) Titan Pet Products
6521 Creedmoor Rd. Suite 101
Raleigh NC 27613
US

CC-7A-30 (hex) CMAX Wireless Co., Ltd.
CC7A30
(base 16) CMAX Wireless Co., Ltd.
KT Bongduk B/D 9F, 627-15, Bongduk-dong
Namgu Daegu 705710
KR

B8-8E-3A (hex) Infinite Technologies JLT
B88E3A (base 16) Infinite Technologies JLT
Office 3203, Level 32
Jumeirah Lake Towers Dubai
AE

70-65-82 (hex) Suzhou Hanming Technologies Co., Ltd.
706582 (base 16) Suzhou Hanming Technologies Co., Ltd.
Suite 407, No. 166, Ren Ai Road
Suzhou Jiangsu 215123
CN

7C-39-20 (hex) SSOMA SECURITY

7C3920 (base 16) SSOMA SECURITY
Unit 703, Daeryung Technotown 13th,
Geumcheongu Seoul 153754
KR

9C-77-AA (hex) NADASNV
9C77AA (base 16) NADASNV
2203, T-dong, Poonglim I-won Plus
Seongnam-si Gyeonggi-do 463-862
KR

58-BC-27 (hex) Cisco Systems, Inc
58BC27 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

34-D2-C4 (hex) RENA GmbH Print Systeme
34D2C4 (base 16) RENA GmbH Print Systeme
Hienlohestrasse
24
Otterfing Bavaria 83624
DE

00-34-F1 (hex) Radicom Research, Inc.
0034F1 (base 16) Radicom Research, Inc.
2148 Bering Drive
San Jose Ca 95131
US

DC-20-08 (hex) ASD Electronics Ltd
DC2008 (base 16) ASD Electronics Ltd
DEDE INDUSTRIAL PARK,JIAN'AN ROAD,HIGH-TECH
Shenzhen Guang Dong 518103
CN

88-AC-C1 (hex) Generiton Co., Ltd.
88ACC1 (base 16) Generiton Co., Ltd.
8F-1, No. 81, Shuili Rd.,
Hsinchu City, 30059
TW

88-18-AE (hex) Tamron Co., Ltd
8818AE (base 16) Tamron Co., Ltd
1385,Hasunuma, Minuma-ku
Saitama-shi Saitama 337-8556
JP

20-D6-07 (hex) Nokia Corporation
20D607 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

20-6F-EC (hex) Braemac CA LLC
206FEC (base 16) Braemac CA LLC
43134 Osgood Road
Fremont CA 94539
US

A4-5C-27 (hex) Nintendo Co., Ltd.
A45C27 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO
KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

6C-04-60 (hex) RBH Access Technologies Inc.
6C0460 (base 16) RBH Access Technologies Inc.
2 Automatic Road
Brampton Ontario L6S 6K8
CA

70-64-17 (hex) ORBIS TECNOLOGIA ELECTRICA S.A.
706417 (base 16) ORBIS TECNOLOGIA ELECTRICA S.A.
Lerida, 61
Madrid Madrid E28020
US

B8-BA-72 (hex) Cynove
B8BA72 (base 16) Cynove
10 cite rougemont
Paris 75009
FR

D4-CB-AF (hex) Nokia Corporation
D4CBAF (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

10-E8-EE (hex) PhaseSpace
10E8EE (base 16) PhaseSpace
1933 Davis St Suite 312
San Leandro CA 94577
US

A4-7C-1F (hex) Cobham plc
A47C1F (base 16) Cobham plc
3985 Gateway Centre Blvd
Pinellas Park FL 33782
US

D4-6C-DA (hex) CSM GmbH
D46CDA (base 16) CSM GmbH
Raiffeisenstraße 34
Filderstadt Baden-Württemberg 70794
DE

5C-D9-98 (hex) D-Link
Corporation
5CD998 (base 16) D-Link Corporation
No.289, Sinhu 3rd Rd., Neihu District,
Taipei City 114
TW

10-0D-32 (hex) Embedian, Inc.
100D32 (base 16) Embedian, Inc.
10F., 95, Nanjing E. Rd. Sec. 4,
Taipei 10580
TW

7C-ED-8D (hex) Microsoft
7CED8D (base 16) Microsoft
1 Microsoft Way
Redmond Washington 98052
US

6C-E0-B0 (hex) SOUND4
6CE0B0 (base 16) SOUND4
11 quai Joseph Gillet
LYON 69004
FR

9C-FF-BE (hex) OTSL Inc.
9CFFBE (base 16) OTSL Inc.
HANROKU Bldg. 2F, 2-1-2
Shinjuku-ku Tokyo 160-0021
JP

04-5D-56 (hex) camtron industrial inc.
045D56 (base 16) camtron industrial inc.
5F, Kuem-Ah B/D, 31-3, Karak-dong, Songpa-gu
Seoul 138-801

KR

68-23-4B (hex) Nihon Dengyo Kousaku
68234B (base 16) Nihon Dengyo Kousaku
shinmachi 21-1
kawagoe-shi saitama 350-1107
JP

A4-BE-61 (hex) EutroVision System, Inc.
A4BE61 (base 16) EutroVision
System, Inc.
Rm 403,Building33,No.680 GuipingRd,Xuhui,
Shanghai 200233
CN

18-EF-63 (hex) Cisco Systems, Inc
18EF63 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-F8-60 (hex) PT. Panggung Electric Citrabuana
00F860 (base 16) PT. Panggung Electric Citrabuana
Jl. Raya Waru no. 1
Sidoarjo Jawa Timur 61256
ID

1C-3D-E7 (hex) Sigma Koki Co.,Ltd.
1C3DE7 (base 16) Sigma Koki Co.,Ltd.
1-19-9 Midori
Sumida-ku Tokyo 130-0021
JP

A4-0C-C3 (hex) Cisco Systems, Inc
A40CC3 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

4C-BA-A3 (hex) Bison Electronics Inc.
4CBAA3 (base 16) Bison Electronics Inc.
3F., No.28, Lane 583, Rueiguang Rd., Neihu District
Taipei City 11492
TW

EC-7C-74 (hex) Justone Technologies Co., Ltd.
EC7C74 (base 16) Justone Technologies Co., Ltd.
Tongguang Building F19, 12# South Agriculture

Exhibition Center Road,
Beijing 100125
CN

A8-B1-D4 (hex) Cisco Systems, Inc
A8B1D4 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

CC-FC-B1 (hex) Wireless Technology, Inc.
CCFCB1 (base 16) Wireless Technology, Inc.
2064 Eastman Ave. #113
Ventura CA 93003-7787
US

3C-1A-79 (hex) Huayuan Technology CO.,LTD
3C1A79 (base 16) Huayuan Technology CO.,LTD
R308 Block Jingmeng High-Tech Building,NO.5-1 Shangdi East Road,
Beijing 100085
CN

88-41-C1 (hex) ORBISAT DA AMAZONIA IND E AEROL SA
8841C1 (base 16) ORBISAT DA AMAZONIA IND E AEROL SA
AV SHISHIMA HIFUMI, 2911
SAO JOSE DOS CAMPOS São Paulo 12244-000
BR

9C-75-14 (hex) Wildix srl
9C7514 (base 16) Wildix srl
loc. Le Basse, 3
Trento TN 38100
IT

4C-F7-37 (hex) SamJi Electronics Co., Ltd
4CF737 (base 16) SamJi Electronics Co., Ltd
459-21, Gasan-dong, Gumchun-ku
Seoul 153-803
KR

F0-D7-67
(hex) Axema Passagekontroll AB
F0D767 (base 16) Axema Passagekontroll AB
Box 90 215
Stockholm 120 23
SE

44-3D-21 (hex) Nuvolt

443D21 (base 16) Nuvolt
8087 Boul. de la Rive Sud
Levis Quebec G6V 9G9
CA

30-49-3B (hex) Nanjing Z-Com Wireless Co.,Ltd
30493B (base 16) Nanjing Z-Com Wireless Co.,Ltd
Z-Com Building,NO.30 Jiangsu Software Park,NO.699-22 Xuanwu Avenue,
Nanjing Jiangsu 210042
CN

D0-7D-E5 (hex) Forward Pay Systems, Inc.
D07DE5 (base 16) Forward Pay Systems, Inc.
9531 West 78th St., #245
Eden Prairie MN 55344
US

84-A9-91 (hex) Cyber Trans Japan Co.,Ltd.
84A991 (base 16) Cyber Trans Japan Co.,Ltd.

Setagaya-ku Tokyo 155-0031
JP

68-78-4C (hex) Nortel Networks
68784C (base 16) Nortel Networks
CARRETERA BASE AEREA # 5850
Zapopan Jalisco 44130
MX

9C-F6-1A (hex) Carrier Fire & Security
9CF61A (base 16) Carrier Fire & Security
Kelvinstraat
7
DH Weert 6003
NL

7C-F0-98 (hex) Bee Beans Technologies, Inc.
7CF098 (base 16) Bee Beans Technologies, Inc.
TCI B5
Tsukuba City Ibaraki 305-0047
JP

EC-66-D1 (hex) B&W Group LTD
EC66D1 (base 16) B&W Group LTD
Dale Road
Worthing Sussex BN11 2BH
GB

38-5F-C3 (hex) Yu Jeong System, Co.Ltd
385FC3 (base 16) Yu Jeong System, Co.Ltd
#503, Dong il B/D, 826, Guro-3dong,
Seoul 152-879
KR

88-8B-5D (hex) Storage Appliance Corporation
888B5D (base 16) Storage Appliance Corporation
29 Su Zhou Jie, Haidian Dist.
Beijing 100080
CN

78-C6-BB (hex) Analog Devices, Inc.
78C6BB (base 16) Analog Devices, Inc.
5635 Jefferson St. NE, Suite A
Albuquerque NM 87109
US

04-DD-4C (hex) Velocytech
04DD4C (base 16) Velocytech
Poppelgårdvej 11
Søborg DK 2860
DK

F8-D7-56 (hex) Simm Tronic Limited
F8D756 (base 16) Simm Tronic Limited
Unit
3, Waterside
Hoddesdon Hertfordshire EN11 0QR
GB

C8-02-A6 (hex) Beijing Newmine Technology
C802A6 (base 16) Beijing Newmine Technology
10 floor,Keshi Plaza
Beijing 100085
CN

C8-4C-75 (hex) Cisco Systems, Inc
C84C75 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

4C-8B-55 (hex) Grupo Digicon
4C8B55 (base 16) Grupo Digicon
Rua Nissin Castiel, 640
Gravataí Rio Grande do Sul 94045420
BR

04-A3-F3 (hex) Emicon
04A3F3 (base 16) Emicon
shelkovskoe shosse, 77
Moscow 107241
RU

1C-17-D3 (hex) Cisco Systems, Inc
1C17D3 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

7C-E0-44 (hex) NEON Inc
7CE044 (base 16) NEON Inc
5340 Airport Boulevard
Boulder CO 80301
US

28-4C-53 (hex) Intune Networks
284C53 (base 16) Intune Networks
9B Beckett Way
Dublin 12
IE

E8-6C-DA (hex) Supercomputers
and Neurocomputers Research Center
E86CDA (base 16) Supercomputers and Neurocomputers Research Center
2, Chekhov st
Taganrog Rostov-on-Don region 347922
RU

24-0B-2A (hex) Viettel Group
240B2A (base 16) Viettel Group
Center for Research and Development
Hanoi 1111
VN

84-F6-4C (hex) Cross Point BV
84F64C (base 16) Cross Point BV
Postbus 2112
Emmen Drenthe 7801 CC
NL

C0-8B-6F (hex) S I Sistemas Inteligentes Eletrônicos Ltda
C08B6F (base 16) S I Sistemas Inteligentes Eletrônicos Ltda
Rua Amadeu Piotto 161
Curitiba Paraná 81280020

BR

64-D0-2D (hex) NEXT GENERATION INTEGRATION LIMITED (NGI)
64D02D (base 16) NEXT GENERATION INTEGRATION LIMITED (NGI)
Unit 1102, 11 / F, 29 Austin Road, TSIM SHA TSUI
KOWLOON Hong Kong 999077
HK

90-51-3F (hex) Elettronica Santerno SpA
90513F (base 16) Elettronica Santerno SpA
Via della Concia 7
Castel Guelfo (BO) 40026
IT

00-B5-D6
(hex) Omnibit Inc.
00B5D6 (base 16) Omnibit Inc.
2-7-9, Soto-Kanda
Chiyoda-ku Tokyo 101-0021
JP

54-89-22 (hex) Zelfy Inc
548922 (base 16) Zelfy Inc
4655 Old Ironsides Dr, Suite#200
Santa Clara Ca 95054
US

F8-6E-CF (hex) Arcx Inc
F86ECF (base 16) Arcx Inc
151 Amber St, Unit 1
Markham ON L3R 3B3
CA

8C-84-01 (hex) Private
8C8401 (base 16) Private

40-84-93 (hex) Clavister AB
408493 (base 16) Clavister AB
Sjogatan 6J
Ornskoldsvik 89160
SE

6C-70-39 (hex) Novar GmbH
6C7039 (base 16) Novar GmbH
Johannes-Mauthe-Str. 14
Albstadt Baden-Württemberg 72458
DE

6C-5C-DE (hex) SunReports, Inc.
6C5CDE (base 16) SunReports, Inc.
1406 Cedarwood Dr.
San Mateo CA 94403
US

34-F3-9B (hex) WizLAN Ltd.
34F39B (base 16) WizLAN Ltd.
P.O.Box 7948
Haifa 31078
IL

4C-30-89 (hex) Thales Transportation Systems GmbH
4C3089 (base 16) Thales
Transportation Systems GmbH
Bierweg 2
Arnstadt Thuringia 99310
DE

08-9F-97 (hex) LEROY AUTOMATION
089F97 (base 16) LEROY AUTOMATION
35, Boulevard du Libre Echange
Saint Orens de Gameville 31650
FR

78-A6-BD (hex) DAEYEON Control&Instrument Co,.Ltd
78A6BD (base 16) DAEYEON Control&Instrument Co,.Ltd
ACETECHNOTOWER 2-108, 197-7, Guro3-Dong, Guro-Gu,
Seoul 152-766
KR

FC-CF-62 (hex) IBM Corp
FCCF62 (base 16) IBM Corp
2051 Mission College Blvd
Santa Clara CA 95054
US

08-4E-1C (hex) H2A Systems, LLC
084E1C (base 16) H2A Systems, LLC
7545 Irvine Center Drive
Irvine CA 92618
US

88-B6-27 (hex) Gembird Europe BV
88B627 (base 16) Gembird Europe BV
Wittevrouwen 56
Almere Flevoland 1358CD
NL

F0-68-53 (hex) Integrated Corporation
F06853 (base 16) Integrated Corporation
3/F, Shun On Commercial Bldg.,
Cetnral,
HK

A4-AD-B8 (hex) Vitec
Group, Camera Dynamics Ltd
A4ADB8 (base 16) Vitec Group, Camera Dynamics Ltd
William Vinten Building
Bury St Edmunds Suffolk IP33 3TB
GB

3C-19-15 (hex) GFI Chrono Time
3C1915 (base 16) GFI Chrono Time
121 rue des Guillees
CHAURAY 79180
FR

EC-B1-06 (hex) Acuro Networks, Inc
ECB106 (base 16) Acuro Networks, Inc
42808 Christy St., Suite 100
Fremont CA 94538
US

48-12-49 (hex) Luxcom Technologies Inc.
481249 (base 16) Luxcom Technologies Inc.
102 Walgreen Road
Ottawa Ontario K0A 1L0
CA

24-A9-37 (hex) PURE Storage
24A937 (base 16) PURE Storage
650 Castro Street
Mt. View CA 94041
US

34-83-02 (hex) iFORCOM Co., Ltd
348302 (base 16) iFORCOM Co., Ltd
1326
Sagamihara Kanagawa 252-0157
JP

E0-26-30 (hex) Intrigue Technologies, Inc.
E02630 (base 16) Intrigue Technologies, Inc.
800 Old Pond Road
Bridgeville PA 15017

US

B4-3D-B2 (hex) Degreane
Horizon
B43DB2 (base 16) Degreane Horizon
730 Rue de l'Initiative
Cuers Var 83390
FR

34-BA-51 (hex) Se-Kure Controls, Inc.
34BA51 (base 16) Se-Kure Controls, Inc.
3714 Runge Street
Franklin Park IL 60131
US

5C-57-C8 (hex) Nokia Corporation
5C57C8 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

D4-6C-BF (hex) Goodrich ISR
D46CBF (base 16) Goodrich ISR
6600 Gulton Crt
Albuquerque NM 87109
US

F8-9D-0D (hex) Control Technology Inc.
F89D0D (base 16) Control Technology Inc.
7608 North Hudson Ave
Oklahoma City OK 73116
US

2C-3F-3E (hex) Alge-Timing GmbH
2C3F3E (base 16) Alge-Timing GmbH
Rotkreuzstrasse 39
Lustenau 6890
AT

14-73-73 (hex) TUBITAK UEKAE
147373 (base 16) TUBITAK UEKAE
ANIBAL ST.
KOCAELI 41470
TR

C8-35-B8 (hex) Ericsson, EAB/RWI/K
C835B8 (base 16) Ericsson, EAB/RWI/K
Skolgången 17

SE-800
06
SE

EC-C8-82 (hex) Cisco Systems, Inc
ECC882 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

98-2D-56 (hex) Resolution Audio
982D56 (base 16) Resolution Audio
88 Hoff Street #106
San Francisco CA 94110
US

6C-FD-B9 (hex) Proware Technologies Co Ltd.
6CFDB9 (base 16) Proware Technologies Co Ltd.
2nd F1 East Wing,South Section,Factory Building 24,Science&Technology Park
Shenzhen Guangdong 518000
CN

B4-2C-BE (hex) Direct Payment Solutions Limited
B42CBE (base 16) Direct Payment Solutions Limited
98 Anzac Avenue
Auckland 1035
NZ

CC-22-18 (hex) InnoDigital Co., Ltd.
CC2218 (base 16) InnoDigital Co., Ltd.
No.310 3F Kofomo Tower
Sungnam-city Kyunggi-do 463-825
KR

C8-6C-1E (hex) Display Systems Ltd
C86C1E (base 16) Display Systems Ltd
16-Parkovaja Street 26
Moscow 105484
RU

90-A7-C1 (hex) Pakedge Device and Software Inc.
90A7C1
(base 16) Pakedge Device and Software Inc.
1011 Edwards Road
Burlingame CA 94010
US

80-BA-AC (hex) TeleAdapt Ltd

80BAAC (base 16) TeleAdapt Ltd
Axis 5
Watford Hertfordshire WD244YW
GB

C8-6C-B6 (hex) Optcom Co., Ltd.
C86CB6 (base 16) Optcom Co., Ltd.
792-3 Tomigaoka
Iwata Shizuoka 438-0803
JP

A0-18-59 (hex) Shenzhen Yidashi Electronics Co Ltd
A01859 (base 16) Shenzhen Yidashi Electronics Co Ltd
Building A10, Fukang Industrial Zone
Shenzhen Guangdong 518110
CN

E8-05-6D (hex) Nortel Networks
E8056D (base 16) Nortel Networks
CARRETERA BASE AEREA # 5850
Zapopan Jalisco 44130
MX

C4-59-76 (hex) Fugoo Coorporation
C45976 (base 16) Fugoo Coorporation
8001 Irvine Center Drive
Irvine CA 62618
US

A4-B1-21 (hex) Arantia 2010 S.L.
A4B121 (base 16) Arantia 2010 S.L.
Volta do Castro s/n
Santiago de Compostela A Coruña 15706
ES

E0-26-36 (hex) Nortel
Networks
E02636 (base 16) Nortel Networks
CARRETERA BASE AEREA # 5850
Zapopan Jalisco 44130
MX

8C-56-C5 (hex) Nintendo Co., Ltd.
8C56C5 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

CC-B8-88 (hex) AnB Securite s.a.
CCB888 (base 16) AnB Securite s.a.
Rue de Joie,38-40
Liege 4000
BE

6C-5E-7A (hex) Ubiquitous Internet Telecom Co., Ltd
6C5E7A (base 16) Ubiquitous Internet Telecom Co., Ltd
#512, 5th Floor, Kolon Digital Valley,Guro 3(sam)-dong, Guro-gu
Seoul 152-777
KR

10-43-69 (hex) Soundmax Electronic Limited
104369 (base 16) Soundmax Electronic Limited
Room#1505, Oriental plaza, #1072 JianShe Road
SHENZHEN Guangdong 518001
CN

C0-6C-0F (hex) Dobbs Stanford
C06C0F (base 16) Dobbs Stanford
2715 Electronic Lane
Dallas Texas 75220
US

50-2D-F4 (hex) Phytec Messtechnik GmbH
502DF4 (base 16) Phytec
Messtechnik GmbH
Robert-Koch-Straße 39
Mainz Rheinland-Pfalz 55129
DE

2C-CD-27 (hex) Precor Inc
2CCD27 (base 16) Precor Inc
20031 142nd Avenue NE
Woodinville WA 98072
US

10-18-9E (hex) Elmo Motion Control
10189E (base 16) Elmo Motion Control
64 Gisin St.
Petach Tikva 49103
IL

74-6B-82 (hex) MOVEK
746B82 (base 16) MOVEK
6517 Navaho Trail
Edina Minnesota 55439
US

9C-C0-77 (hex) PrintCounts, LLC
9CC077 (base 16) PrintCounts, LLC
5109 W Lemon St
Tampa FL 33609
US

3C-B1-7F (hex) Wattwatchers Pty Ld
3CB17F (base 16) Wattwatchers Pty Ld
22 Woodbury Rd St. Ives
Sydney NSW 2075
AU

CC-54-59 (hex) OnTime Networks AS
CC5459 (base 16) OnTime Networks AS
Gladsvei 20
Oslo 0489
NO

D4-F1-43 (hex) IPROAD.,Inc
D4F143 (base 16) IPROAD.,Inc
#505 Byuksan digital valley 7, 170-13,
Seoul 152-847
KR

60-1D-0F (hex) Midnite
Solar
601D0F (base 16) Midnite Solar
17722 67th Ave NE #C
Arlington WA 98223
US

A8-F9-4B (hex) Eltex Enterprise Ltd.
A8F94B (base 16) Eltex Enterprise Ltd.
Okruzhnaya st. 29v
Novosibirsk 630020
RU

0C-82-30 (hex) SHENZHEN MAGNUS TECHNOLOGIES CO.,LTD
0C8230 (base 16) SHENZHEN MAGNUS TECHNOLOGIES CO.,LTD
c-504,Skyworth Building,No.8 Road,High-tech south,Nanshan District,
Shenzhen Guangdong 518057
CN

34-86-2A (hex) Heinz Lackmann GmbH & Co KG
34862A (base 16) Heinz Lackmann GmbH & Co KG
Harkortstraße 15
Münster NRW 48163

DE

B4-ED-54 (hex) Wohler Technologies
B4ED54 (base 16) Wohler Technologies
31055 Huntwood Avenue
Hayward CA 94544
US

F8-DC-7A (hex) Variscite LTD
F8DC7A (base 16) Variscite LTD
60 Medinat Hayehudim st.
Hertzelia 46722
IL

B8-F7-32 (hex) Aryaka Networks Inc
B8F732 (base 16) Aryaka Networks Inc
691 S. Milpitas Blvd.,
Milpitas
CA 95035
US

E8-DF-F2 (hex) PRF Co., Ltd.
E8DFF2 (base 16) PRF Co., Ltd.
#510, Leaders B/D, Yatop-dong
Seongnam-city Gyeonggi-do 463-828
KR

00-64-40 (hex) Cisco Systems, Inc
006440 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

58-49-BA (hex) Chitai Electronic Corp.
5849BA (base 16) Chitai Electronic Corp.
5F., No. 1 Lane 123, Pao-Chung Rd., Hsin-Tien City
Taiepi 23144
TW

00-D1-1C (hex) ACETEL
00D11C (base 16) ACETEL
#1006, World Merdian 2-cha, 426-5,
Seoul 153-759
KR

94-C4-E9 (hex) PowerLayer Microsystems HongKong Limited
94C4E9 (base 16) PowerLayer Microsystems HongKong Limited
23 Zhichun Rd,Liangziyinzuo Rm1009

Beijing 100083
CN

88-43-E1 (hex) Cisco Systems, Inc
8843E1 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

54-9A-16 (hex) Uzushio Electric Co.,Ltd.
549A16 (base 16) Uzushio
Electric Co.,Ltd.
105
Imabari-city Ehime pref. 7948582
JP

90-18-AE (hex) Shanghai Meridian Technologies, Co. Ltd.
9018AE (base 16) Shanghai Meridian Technologies, Co. Ltd.
Suite 6A Tongsheng Tower
Pudong shanghai 200122
CN

A4-AD-00 (hex) Ragsdale Technology
A4AD00 (base 16) Ragsdale Technology
505 Echo Lane
Big Bear Lake CA 92315
US

4C-9E-E4 (hex) Hanyang Navicom Co.,Ltd.
4C9EE4 (base 16) Hanyang Navicom Co.,Ltd.
713, Gwanpyeong-dong, Yusung-gu
Daejeon 305-509
KR

C4-7D-4F (hex) Cisco Systems, Inc
C47D4F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

3C-DF-1E (hex) Cisco Systems, Inc
3CDF1E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

50-A6-E3 (hex) David Clark Company
50A6E3 (base 16) David Clark Company

360 Franklin St.
Worcester MA 01615
US

50-93-4F (hex) Gradual Tecnologia Ltda.
50934F
(base 16) Gradual Tecnologia Ltda.
Rua Attilio Giaretta, 110
Itatiba SP 13257-584
BR

AC-E3-48 (hex) MadgeTech, Inc
ACE348 (base 16) MadgeTech, Inc
879 Maple St
Contoocook NH 03229
US

9C-4E-8E (hex) ALT Systems Ltd
9C4E8E (base 16) ALT Systems Ltd
PoBox 17
Helsinki 00761
FI

04-2B-BB (hex) PicoCELA, Inc.
042BBB (base 16) PicoCELA, Inc.
3-8-33, Momochihama
Fukuoka-city Fukuoka 814-0001
JP

FC-08-77 (hex) Prentke Romich Company
FC0877 (base 16) Prentke Romich Company
1022 Heyl Rd
Wooster OH 44691
US

EC-D0-0E (hex) MiraeRecognition Co., Ltd.
ECD00E (base 16) MiraeRecognition Co., Ltd.
PrimeBank Bldg. Annex-3F, #278-3
Seoul 135-833
KR

70-72-CF (hex) EdgeCore Networks
7072CF (base 16) EdgeCore Networks
20 Mason
Irvine CA 92618
US

B8-B1-C7 (hex) BT&COM CO.,LTD

B8B1C7 (base 16) BT&COM CO.,LTD
#1103, E&C Venture Dream
Tower II
Seoul 152-719
KR

DC-2C-26 (hex) Iton Technology Limited
DC2C26 (base 16) Iton Technology Limited
Room 10E, JingFeng Building,
ShenZhen GuangDong 518034
CN

1C-0F-CF (hex) Sypro Optics GmbH
1C0FCF (base 16) Sypro Optics GmbH
Carl-Zeiss-Promenade 10
Jena Thuringia 07745
DE

04-94-A1 (hex) CATCH THE WIND INC
0494A1 (base 16) CATCH THE WIND INC
10781 JAMES PAYNE COURT
MANASSAS VA 20110
US

00-3A-99 (hex) Cisco Systems, Inc
003A99 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-3A-9A (hex) Cisco Systems, Inc
003A9A (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-3A-98 (hex) Cisco Systems, Inc
003A98 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

D4-11-D6 (hex) ShotSpotter, Inc.
D411D6 (base 16) ShotSpotter, Inc.
1060 Terra Bella Ave.
Mountain View
CA 94043
US

9C-AF-CA (hex) Cisco Systems, Inc
9CAFCA (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

7C-7B-E4 (hex) Z'SEDAI KENKYUSHO CORPORATION
7C7BE4 (base 16) Z'SEDAI KENKYUSHO CORPORATION
Meikai sannomiya 2nd Bldg. 11th/fl.
Kobe Hyogo 650-0034
JP

F0-DE-71 (hex) Shanghai EDO Technologies Co.,Ltd.
F0DE71 (base 16) Shanghai EDO Technologies Co.,Ltd.
Unit 12302, Building 12,498 Guoshoujing Road, Pudong New Area
Shanghai 201203
CN

60-D3-0A (hex) Quatius Limited
60D30A (base 16) Quatius Limited
Units 05-07, 16/F, Greenfield Tower, Concordia Plaza,
Kowloon
HK

24-CF-21 (hex) Shenzhen State Micro Technology Co., Ltd
24CF21 (base 16) Shenzhen State Micro Technology Co., Ltd
SSMEC Building2/F, Gao Xin Nan First Avenue, Hi-Tech Park South, Nanshan
Shenzhen City Guangdong Province 518057
CN

10-BA-A5 (hex) GANA I&C CO., LTD
10BAA5 (base 16) GANA
I&C CO., LTD
154-17 kyoungdong B/D 3F karak-dong songpa-gu
Seoul Korea 138-160
KR

64-BC-11 (hex) CombiQ AB
64BC11 (base 16) CombiQ AB
Science Park
Jonkoping 553 18
SE

EC-30-91 (hex) Cisco Systems, Inc
EC3091 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568

US

F4-AC-C1 (hex) Cisco Systems, Inc
F4ACC1 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

40-97-D1 (hex) BK Electronics cc
4097D1 (base 16) BK Electronics cc
150 Swaardlelie Ave
Pretoria Gauteng 0184
ZA

0C-E9-36 (hex) ELIMOS srl
0CE936 (base 16) ELIMOS srl
Area Science Park - Padriciano 99
TRIESTE 34149
IT

60-39-1F (hex) ABB Ltd
60391F (base 16) ABB Ltd
Distribution Automation
Vadodara Gujarat 390013
IN

E8-A4-C1 (hex) Deep Sea Electronics Ltd
E8A4C1 (base 16) Deep Sea Electronics Ltd
Highfield House
Hunmanby North
Yorkshire YO14 0PH
GB

64-F9-70 (hex) Kenade Electronics Technology Co.,LTD.
64F970 (base 16) Kenade Electronics Technology Co.,LTD.
F/G room,11/F,Hangdu building,Huafu Rd, Futian district,
ShenZhen GuangDong 518028
CN

C8-72-48 (hex) Aplicom Oy
C87248 (base 16) Aplicom Oy
Rautatienkatu 56
Äänekoski Länsi-Suomi 44101
FI

98-6D-C8 (hex) TOSHIBA MITSUBISHI-ELECTRIC INDUSTRIAL SYSTEMS CORPORATION
986DC8 (base 16) TOSHIBA MITSUBISHI-ELECTRIC INDUSTRIAL SYSTEMS CORPORATION
TOKYO SQUARE GARDEN

3-1-1 Kyobashi, CHUO-KU Tokyo 104-0031
JP

6C-AC-60 (hex) Venetex Corp
6CAC60 (base 16) Venetex Corp
8-3-9,Shin-machi
Ome-shi, Tokyo 198-0024
JP

F0-4B-F2 (hex) JTECH Communications, Inc.
F04BF2 (base 16) JTECH Communications, Inc.
6413 Congress Ave.
Boca Raton FL 33487
US

88-A5-BD (hex) QPCOM INC.
88A5BD (base 16) QPCOM INC.
6030 NW 99 AVE
DORAL FLORIDA 33178
US

80-17-7D
(hex) Nortel Networks
80177D (base 16) Nortel Networks
CARRETERA BASE AEREA # 5850
Zapopan Jalisco 44130
MX

C8-2E-94 (hex) Halfa Enterprise Co., Ltd.
C82E94 (base 16) Halfa Enterprise Co., Ltd.
5F, No.102, Ming Chuan Road
Hsin Tien Taipei County 23141
TW

BC-9D-A5 (hex) DASCOM Europe GmbH
BC9DA5 (base 16) DASCOM Europe GmbH
Heuweg 3
Ulm Baden-Württemberg 89079
DE

28-FB-D3 (hex) Ragentek Technology Group
28FBD3 (base 16) Ragentek Technology Group
D10/D11No.3188, Xiupu Road, PuDong District, Shanghai
Shanghai 201703
CN

58-6E-D6 (hex) Private
586ED6 (base 16) Private

C8-D2-C1 (hex) Jetlun (Shenzhen) Corporation
C8D2C1 (base 16) Jetlun (Shenzhen) Corporation
1008A Skyworth Building, Gao-xin Rd South
Shenzhen 518057
CN

E0-91-53 (hex) XAVi Technologies Corp.
E09153 (base 16) XAVi Technologies Corp.
9F., No129, Xingde RD.,Sanchong Dist.,
New Taipei
Taiwan 24158
TW

00-27-12 (hex) MaxVision LLC
002712 (base 16) MaxVision LLC
495 Production Ave
Madison AL 35758
US

D4-C7-66 (hex) Acentic GmbH
D4C766 (base 16) Acentic GmbH
Venloer Strasse 151-153
Cologne 50672
DE

A0-2E-F3 (hex) United Integrated Services Co., Led.
A02EF3 (base 16) United Integrated Services Co., Led.
5F No 3 Lane 7 Packao Road Hsintien
Taipei Hsien 23144
TW

A0-98-05 (hex) OpenVox Communication Co Ltd
A09805 (base 16) OpenVox Communication Co Ltd
F2,Building No.14,Shangsha Science &
ShenZhen GuangDong 518031
CN

00-26-F3 (hex) SMC Networks
0026F3 (base 16) SMC Networks
20 Mason
Irvine CA 92618
US

00-26-E7 (hex) Shanghai ONLAN Communication Tech. Co., Ltd.
0026E7 (base 16) Shanghai ONLAN Communication Tech. Co., Ltd.
3F, 6C, No. 1658, Gumei Road, Xuhui District
Shanghai 200233

CN

00-27-1F (hex) MIPRO Electronics Co.,
Ltd
00271F (base 16) MIPRO Electronics Co., Ltd
814,Peikang Road
Chiayi 60096
TW

00-27-0C (hex) Cisco Systems, Inc
00270C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-26-E0 (hex) ASITEQ
0026E0 (base 16) ASITEQ
5F, DONGYOUNG Bldg,382-6,Yatap dong
Sung Nam si Kyounggi-do 463-827
KR

00-27-03 (hex) Testech Electronics Pte Ltd
002703 (base 16) Testech Electronics Pte Ltd
Block 118, #05-110,
Singapore 380118
SG

00-26-C5 (hex) Guangdong Gosun Telecommunications Co.,Ltd
0026C5 (base 16) Guangdong Gosun Telecommunications Co.,Ltd
Guangdong software park D, No.11, CaiPing road , Guangzhou science city
Guangzhou Guangdong 510663
CN

00-26-C4 (hex) Cadmos microsystems S.r.l.
0026C4 (base 16) Cadmos microsystems S.r.l.
Via Pietro Frattini, 255
Roma 00149
IT

00-26-C8 (hex) System Sensor
0026C8 (base 16) System Sensor
3825 Ohio
Avenue
Saint Charles IL 60174
US

00-26-C2 (hex) SCDI Co. LTD
0026C2 (base 16) SCDI Co. LTD

#451, Hagal-Dong, Giheung-Gu,
Yongin-Si Gyeonggi-Do 446-930
KR

00-26-97 (hex) Alpha Technologies Inc.
002697 (base 16) Alpha Technologies Inc.
3767 Alpha Way
Bellingham WA 98226
US

00-26-8A (hex) Terrier SC Ltd
00268A (base 16) Terrier SC Ltd
Strettit Farm
East Peckham Kent TN12 5EE
GB

00-26-A5 (hex) MICROROBOT.CO.,LTD
0026A5 (base 16) MICROROBOT.CO.,LTD
167-3 Gungpyeong-ri
Gwangju-si Gyeonggi-Do 464-881
KR

00-26-A3 (hex) FQ Ingenieria Electronica S.A.
0026A3 (base 16) FQ Ingenieria Electronica S.A.
Avda. Roquetes 9
Sant Pere de Ribes Barcelona 08812
ES

00-26-9D (hex) M2Mnet Co., Ltd.
00269D (base 16) M2Mnet Co., Ltd.
607 Downtown Bld. 1043-1 Hogye-Dong Dongan-Gu
Anyang-City Kyunggi-Do 431-080
KR

00-26-7A (hex) wuhan hongxin telecommunication
technologies co.,ltd
00267A (base 16) wuhan hongxin telecommunication technologies co.,ltd
No.5 Donxin Road,Wuhan East Lake High-Tech Development Zone
Wuhan Hubei 430073
CN

00-26-72 (hex) AAMP of America
002672 (base 16) AAMP of America
13190 56th Court
Clearwater Florida 33760
US

00-26-89 (hex) General Dynamics Robotic Systems

002689 (base 16) General Dynamics Robotic Systems
1231 Tech Court
Westminster MD 21157
US

00-26-85 (hex) Digital Innovation
002685 (base 16) Digital Innovation
Travbaneveien 6
Trondheim 7044
NO

00-26-CF (hex) DEKA R&D
0026CF (base 16) DEKA R&D
340 Commercial Street
Manchester NH 03101
US

00-26-64 (hex) Core System Japan
002664 (base 16) Core System Japan
Bunshu Bldg,2-27-6,Myojin
Hachioji Tokyo 1920046
JP

00-26-59 (hex) Nintendo Co., Ltd.
002659 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO
KYOTO 601-8501
JP

00-26-51 (hex) Cisco Systems, Inc
002651 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-26-4E (hex) r2p GmbH
00264E (base 16) r2p GmbH
Norderhofenden 12-13
Flensburg 24937
DE

00-26-4F (hex) Krüger &Gothe GmbH
00264F (base 16) Krüger &Gothe GmbH
Atzendorfer Straße 19
Staßfurt Sachsen Anhalt 39418
DE

00-26-A9 (hex) Strong Technologies Pty Ltd
0026A9 (base 16) Strong Technologies Pty Ltd
60 Wedgewood Road
Hallam Victoria 3803
AU

00-25-E9 (hex) i-mate Development, Inc.
0025E9 (base 16) i-mate Development, Inc.
8383 158th Ave. N.E., Suite 300, Redmond,
Washington WA 98052-3871
US

00-25-E6 (hex) Belgian Monitoring Systems bvba
0025E6 (base 16) Belgian Monitoring Systems bvba
Th. Sevenslaan 106
Kortrijk WVL 8500
BE

00-25-E0 (hex) CeedTec Sdn Bhd
0025E0 (base 16) CeedTec Sdn Bhd
303-4-5,
Krystal Point Business Center
Bayan Lepas Penang 11900
MY

00-25-DE (hex) Probits Co., LTD.
0025DE (base 16) Probits Co., LTD.
#1502, Kolon Science Valley II, 811
Seoul 152-878
KR

00-25-CE (hex) InnerSpace
0025CE (base 16) InnerSpace
PO Box 2186
Grand Rapids MI 49501
US

00-25-C6 (hex) kasercorp, ltd
0025C6 (base 16) kasercorp, ltd
South 20,Gaobu Road,Gaobu Town
Dongwan Guangdong 523000
CN

00-25-C5 (hex) Star Link Communication Pvt. Ltd.
0025C5 (base 16) Star Link Communication Pvt. Ltd.
HR114/6 & Hr132/6, Pulprehladpur,
New Delhi 110044
IN

00-25-C7 (hex) altek Corporation
0025C7 (base 16) altek Corporation
3F, No. 10, Li-Hsin Road, Science-Based Industrial Park,
Hsinchu
TW

00-25-FF (hex) CreNova Multimedia Co., Ltd
0025FF (base 16) CreNova Multimedia Co., Ltd
7/F, Hana EZ Tower, Gumi-Dong 10, Sungnam Rd 43,
Sungnam-Si Kyunggi-Do 463-870
KR

00-26-12
(hex) Space Exploration Technologies
002612 (base 16) Space Exploration Technologies
1 Rocket Road
Hawthorne CA 90250
US

00-26-16 (hex) Rosemount Inc.
002616 (base 16) Rosemount Inc.
8200 Market Boulevard
Chanhassen MN 55317
US

00-26-0B (hex) Cisco Systems, Inc
00260B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-25-FD (hex) OBR Centrum Techniki Morskiej S.A.
0025FD (base 16) OBR Centrum Techniki Morskiej S.A.
Dickmana 62
Gdynia 81-109
US

00-26-00 (hex) TEAC Australia Pty Ltd.
002600 (base 16) TEAC Australia Pty Ltd.
75 Northgate Drive
Thomastown Victoria 3074
AU

00-25-F3 (hex) Nordwestdeutsche Zählerrevision
0025F3 (base 16) Nordwestdeutsche Zählerrevision
Ing. Aug. Knemeyer GmbH & Co. KG
Bad Laer Niedersachsen 49196

DE

00-25-EC (hex) Humanware
0025EC (base 16) Humanware
445 rue du Parc Industriel
Longueuil
Québec J4H 3V7
CA

00-25-ED (hex) NuVo Technologies LLC
0025ED (base 16) NuVo Technologies LLC
3015 Kustom Drive
Hebron KY 41048
US

00-26-23 (hex) JRD Communication Inc
002623 (base 16) JRD Communication Inc
16/F, TCL Tower, Gaoxin Nanyi Road, Nanshan District
Shenzhen Guangdong 518057
CN

00-26-27 (hex) Truesell
002627 (base 16) Truesell
301 Sungyun Bldg, 89-2
Seocho-gu, Seoul 137-130
KR

00-26-21 (hex) InteliCloud Technology Inc.
002621 (base 16) InteliCloud Technology Inc.
895 Dove St.
Newport Beach CA 92660
US

00-26-1C (hex) NEOVIA INC.
00261C (base 16) NEOVIA INC.
503 LOTTE IT CASTLE 1DONG,550-1
SEOUL 153-768
KR

00-26-39 (hex) T.M. Electronics, Inc.
002639 (base 16) T.M. Electronics, Inc.
45 Main St
Boylston MA 01505
US

00-25-DD (hex) SUNNYTEK INFORMATION CO., LTD.
0025DD (base 16) SUNNYTEK INFORMATION CO., LTD.
12F,

NO. 88, HSIN-TE ROAD
TAIPEI HSIEN 241
TW

00-25-B0 (hex) Schmartz Inc
0025B0 (base 16) Schmartz Inc
2307 Valerian Trl
Round Rock TX 78665
US

00-25-AD (hex) Manufacturing Resources International
0025AD (base 16) Manufacturing Resources International
6415 Shiloh Road East
Alpharetta GA 30005
US

00-25-AC (hex) I-Tech corporation
0025AC (base 16) I-Tech corporation
1-15 Shin-ogawa machi
Shinjyuku-ku Tokyo 162-0814
JP

00-25-AB (hex) AIO LCD PC BU / TPV
0025AB (base 16) AIO LCD PC BU / TPV
10F., No., 230, Liancheng Rd.
Zhonghe City Taipei Taiwan 23553
TW

00-25-BA (hex) Alcatel-Lucent IPD
0025BA (base 16) Alcatel-Lucent IPD
701 E. Middlefield Rd.
Mountain View CA 94043
US

00-25-BB (hex) INNERINT Co., Ltd.
0025BB (base 16) INNERINT Co., Ltd.
Dongyoung CentralTower #202, Geumjung-dong,
Gunpo-si Kyunggi-do 430050
KR

00-25-B1 (hex) Maya-Creation
Corporation
0025B1 (base 16) Maya-Creation Corporation
3F, Building M-10, Centre od Hi-Tech Ind. Dist.
Shenzhen 518057
CN

00-25-B8 (hex) Agile Communications, Inc.

0025B8 (base 16) Agile Communications, Inc.
810 Lawrence Dr
Thousand Oaks California 91320
US

00-25-A1 (hex) Enalasys
0025A1 (base 16) Enalasys
250 Avenida Campillo
Calexico California 92231
US

00-25-9A (hex) CEStronics GmbH
00259A (base 16) CEStronics GmbH
Friedrichstraße 243
Velbert 42551
DE

00-25-4A (hex) RingCube Technologies, Inc.
00254A (base 16) RingCube Technologies, Inc.
100 West Evelyn Ave, Suite 210
Mountain View CA 94041
US

00-25-83 (hex) Cisco Systems, Inc
002583 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-25-5D (hex) Morningstar Corporation
00255D (base 16) Morningstar Corporation
10611 Iron Bridge Road
Jessup MD 20794
US

00-25-58
(hex) MPEDIA
002558 (base 16) MPEDIA
Shinyoung Tower 12F 246-2
Seongnam Gyeonggi-do 463-824
KR

00-25-91 (hex) NEXTEK, Inc.
002591 (base 16) NEXTEK, Inc.
410 Douglass Street
Reading PA 19601
US

00-25-8D (hex) Haier
00258D (base 16) Haier
No.1,Haier Road
Qingdao Shandong 266101
CN

00-25-71 (hex) Zhejiang Tianle Digital Electric Co.,Ltd
002571 (base 16) Zhejiang Tianle Digital Electric Co.,Ltd
No.8 Tianle Rd,Economic Development Zone
Shengzhou Zhejiang 312400
CN

00-25-4F (hex) ELETTROLAB Srl
00254F (base 16) ELETTROLAB Srl
Via Dell'Industria 25
San Vendemiano Treviso 31020
IT

00-25-49 (hex) Jeorich Tech. Co.,Ltd.
002549 (base 16) Jeorich Tech. Co.,Ltd.
4F., No.6, Ln. 70, Sec. 2, Academia Rd., Nangang District, Taipei City 115, Taiwan (R.O.C.)
Taipei Taiwan 110
TW

00-25-39 (hex) IfTA GmbH
002539 (base 16) IfTA GmbH
Industriestraße
33
Groebenzell Bavaria 82194
DE

00-25-37 (hex) Runcom Technologies Ltd.
002537 (base 16) Runcom Technologies Ltd.
11 Moshe Levi Str. 11th Flr.
Rishon Le Zion 75658
IL

00-25-38 (hex) Samsung Electronics Co., Ltd., Memory Division
002538 (base 16) Samsung Electronics Co., Ltd., Memory Division
San #16 Banwol-Dong, Taean-Gu
Hwasung City Gyeonggi Do 445-701
KR

00-25-44 (hex) LoJack Corporation
002544 (base 16) LoJack Corporation
780 Dedham Street
Canton MA 02021
US

00-25-32 (hex) Digital Recorders
002532 (base 16) Digital Recorders
4018 Patriot Drive
Durham NC 27709
US

00-24-F8 (hex) Technical Solutions Company Ltd.
0024F8 (base 16) Technical Solutions Company Ltd.
Box 31750
Whitehorse Yukon Y1A 6L3
CA

00-24-F9 (hex) Cisco Systems, Inc
0024F9 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-24-F2 (hex) Uniphone
Telecommunication Co., Ltd.
0024F2 (base 16) Uniphone Telecommunication Co., Ltd.
No. 25, Chu-Kung 3rd Lane, Chu-Hou Tsung, Jen-Wu Hsiang,
Kaohsiung Hsien 81448
TW

00-25-07 (hex) ASTAK Inc.
002507 (base 16) ASTAK Inc.
1911 Hartog Drive
San Jose CA 95131
US

00-25-02 (hex) NaturalPoint
002502 (base 16) NaturalPoint
PO Box 2317
Corvallis OR 97339
US

00-25-1A (hex) Psiber Data Systems Inc.
00251A (base 16) Psiber Data Systems Inc.
7075-K Mission Gorge Rd
San Diego CA 92120
US

00-25-14 (hex) PC Worth Int'l Co., Ltd.
002514 (base 16) PC Worth Int'l Co., Ltd.
18F, No.100, Sec. 1, Xintai 5th Rd., Xizhi Dist.,
New Taipei City Taipei 22102

TW

00-25-0B (hex) CENTROFACTOR INC
00250B (base 16) CENTROFACTOR INC
Road Town, Tortola, P.O.Box 3161,
Tortola 194295
VG

00-25-06 (hex) A.I. ANTITACCHEGGIO ITALIA SRL
002506 (base 16) A.I. ANTITACCHEGGIO ITALIA SRL
VICOLO
DELLE DAME 4
BOLOGNA 40124
IT

00-24-EE (hex) Wynmax Inc.
0024EE (base 16) Wynmax Inc.
18F., No. 75, Sec. 1, XinTai 5th Rd.,
Xizhi City, Taipei County 221
TW

00-24-E3 (hex) CAO Group
0024E3 (base 16) CAO Group
4628 West Skyhawk Drive
West Jordan UT 84084
US

00-25-1C (hex) EDT
00251C (base 16) EDT
1400 SW Compton
Beaverton OR 97008
US

00-24-69 (hex) Fasttel - Smart Doorphones
002469 (base 16) Fasttel - Smart Doorphones
Klipsenstraat 18A
Lokeren 9160
BE

00-24-64 (hex) Bridge Technologies Co AS
002464 (base 16) Bridge Technologies Co AS
Mølleparken 4
Oslo 0459
NO

00-24-62 (hex) Rayzone Corporation
002462 (base 16) Rayzone Corporation
#2008, B-Dong, Samho BLDG

Seoul 137-941
KR

00-24-75 (hex) Compass System(Embedded Dept.)
002475 (base 16) Compass System(Embedded Dept.)
1403 ACE TechnoTower 8th
Seoul 152-050
KR

00-24-6F
(hex) Onda Communication spa
00246F (base 16) Onda Communication spa
via del lavoro 9
pordenone 33170
IT

00-24-9D (hex) NES Technology Inc.
00249D (base 16) NES Technology Inc.
#205 ACE Technotower 10, 470-5 Gasan-dong
Seoul 153-789
KR

00-24-8E (hex) Infoware ZRt.
00248E (base 16) Infoware ZRt.
Huseg u. 10/a
Budapest 1223
HU

00-24-94 (hex) Shenzhen Baoxin Tech CO., Ltd.
002494 (base 16) Shenzhen Baoxin Tech CO., Ltd.
6F Huale BLDG., Zhonghangbei Rd.,
Shenzhen GuangDong 518028
CN

00-24-E1 (hex) Convey Computer Corp.
0024E1 (base 16) Convey Computer Corp.
1302 E. Collins Blvd.
Richardson TX 75081
US

00-24-D9 (hex) BICOM, Inc.
0024D9 (base 16) BICOM, Inc.
755 Main Street
Monroe CT 06468
US

00-24-89 (hex) Vodafone Omnitel N.V.
002489 (base 16) Vodafone Omnitel N.V.

Via Jervis 13
10015 Ivrea Torino
IT

00-24-7F (hex) Nortel
Networks
00247F (base 16) Nortel Networks
2221 Lakeside Blvd
Richardson TX 75081
US

00-24-B5 (hex) Nortel Networks
0024B5 (base 16) Nortel Networks
2221 Lakeside Blvd
Richardson TX 75081
US

00-24-B0 (hex) ESAB AB
0024B0 (base 16) ESAB AB
Box 8004
Göteborg SE-402 77
SE

00-24-C3 (hex) Cisco Systems, Inc
0024C3 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-24-C4 (hex) Cisco Systems, Inc
0024C4 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-23-FD (hex) AFT Atlas Fahrzeugtechnik GmbH
0023FD (base 16) AFT Atlas Fahrzeugtechnik GmbH
Gewerbestraße 14
Werdohl 58791
DE

00-23-EF (hex) Zuend Systemtechnik AG
0023EF (base 16) Zuend Systemtechnik AG
Industriestrasse 8
Altstaetten SG 9450
CH

00-24-13 (hex) Cisco Systems, Inc

002413 (base 16) Cisco Systems, Inc
80 West
Tasman Drive
San Jose CA 94568
US

00-24-0E (hex) Inventec Besta Co., Ltd.
00240E (base 16) Inventec Besta Co., Ltd.
10FL, No.36, Lane 513, Rui Guang Road, Nei Hu Dist.
Taipei 114
TW

00-24-05 (hex) Dilog Nordic AB
002405 (base 16) Dilog Nordic AB
Faktorvägen 9
Kungsbacka Halland 439 34
SE

00-24-20 (hex) NetUP Inc.
002420 (base 16) NetUP Inc.
Olof Palme st., 1, sect. 7
Moscow 119311
RU

00-24-1E (hex) Nintendo Co., Ltd.
00241E (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

00-24-1F (hex) DCT-Delta GmbH
00241F (base 16) DCT-Delta GmbH
Bodanrückstraße 1
Bodman - Ludwigshafen Baden-Württemberg 78351
DE

00-23-E8 (hex) Demco Corp.
0023E8 (base 16) Demco Corp.
#919, Doosan Venturedigm, 126-1
Anyang-Si Kyungki-Do 431-070
US

00-23-E3 (hex) Microtronic AG
0023E3 (base 16) Microtronic AG
Duennernstrasse
32
Oensingen Solothurn 4702
CH

00-24-60 (hex) Giaval Science Development Co. Ltd.
002460 (base 16) Giaval Science Development Co. Ltd.
58 Bei Si Huan Xi Rd
Beijing 100080
CN

00-24-5C (hex) Design-Com Technologies Pty. Ltd.
00245C (base 16) Design-Com Technologies Pty. Ltd.
14 Redland Drive
Mitcham Victoria 3132
AU

00-24-4F (hex) Asantron Technologies Ltd.
00244F (base 16) Asantron Technologies Ltd.
3F-1, No.30 Jihe Rd., 111
Taipei 11166
TW

00-24-44 (hex) Nintendo Co., Ltd.
002444 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

00-24-3D (hex) Emerson Appliance Motors and Controls
00243D (base 16) Emerson Appliance Motors and Controls
1901 South St.
Elgin IL 60123
US

00-24-37 (hex) Motorola - BSG
002437 (base 16) Motorola - BSG
1101 Marina Village Pkwy
Alameda CA 94501
US

00-23-5B
(hex) Gulfstream
00235B (base 16) Gulfstream
32 Lummus Drive
Savannah GA 31407
US

00-23-59 (hex) Benchmark Electronics (Thailand) Public Company Limited
002359 (base 16) Benchmark Electronics (Thailand) Public Company Limited
94 Moo 1, Hi-Tech Industrial Estate
Bang Pa-in Ayudhaya 13160

TH

00-23-57 (hex) Pitronot Technologies and Engineering P.T.E. Ltd.
002357 (base 16) Pitronot Technologies and Engineering P.T.E. Ltd.
8 Hatut st
Pardesiya 42815
IL

00-23-55 (hex) Kinco Automation(Shanghai) Ltd.
002355 (base 16) Kinco Automation(Shanghai) Ltd.
Bldg1, No.1387, Zhangdong Road,
Shanghai 201203
CN

00-23-73 (hex) GridIron Systems, Inc.
002373 (base 16) GridIron Systems, Inc.
726 Palomar Ave
Sunnyvale CA 94085
US

00-23-67 (hex) UniControls a.s.
002367 (base 16) UniControls a.s.
Krenicka 2257
Prague 10 100 00
CZ

00-23-68 (hex) Zebra Technologies Inc
002368
(base 16) Zebra Technologies Inc
475 Half Day Road
Lincolnshire IL 60069
US

00-23-6E (hex) Burster GmbH & Co KG
00236E (base 16) Burster GmbH & Co KG
Talstraße 1-5
Gernsbach Baden-Württemberg 76593
DE

00-23-66 (hex) Beijing Siasun Electronic System Co.,Ltd.
002366 (base 16) Beijing Siasun Electronic System Co.,Ltd.
Rm.1018 Huatian Bldg, No.6 Bei Xiaomachang
Beijing 100038
CN

00-23-9F (hex) Institut für Prüftechnik
00239F (base 16) Institut für Prüftechnik
Schulstraße 3

Todtenweis Bayern 86447
DE

00-23-9D (hex) Mapower Electronics Co., Ltd
00239D (base 16) Mapower Electronics Co., Ltd
No. 50 Minquan Road
Taoyuan County 33846
TW

00-23-98 (hex) Vutlan sro
002398 (base 16) Vutlan sro
ul. Svornosti 43
Bratislava BA 82 106
SK

00-23-DD (hex) ELGIN S.A.
0023DD (base 16) ELGIN S.A.
RUA BARAO DE CAMPINAS, 305
São Paulo 01201-901
BR

00-23-DE
(hex) Ansync Inc.
0023DE (base 16) Ansync Inc.
4970 Robert J Matthews Pky
El Dorado Hills CA 95762
US

00-23-D9 (hex) Banner Engineering
0023D9 (base 16) Banner Engineering
9714 10th Ave. N.
Plymouth MN 55441
US

00-23-DA (hex) Industrial Computer Source (Deutschland)GmbH
0023DA (base 16) Industrial Computer Source (Deutschland)GmbH
Marie-Curie-Straße 9
Pulheim NRW 50259
DE

00-23-D8 (hex) Ball-It Oy
0023D8 (base 16) Ball-It Oy
Uusikatu 24 G 76
Oulu 90100
FI

00-23-8F (hex) NIDEC COPAL CORPORATION
00238F (base 16) NIDEC COPAL CORPORATION

2-18-10,SHIMURA
ITABASHI-KU TOKYO 174-8550
JP

00-23-AC (hex) Cisco Systems, Inc
0023AC (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-23-80 (hex) Nanoteq
002380 (base 16) Nanoteq
PO Box 7991
Centurion Gauteng 0046
ZA

00-23-B7 (hex) Q-Light Co., Ltd.
0023B7
(base 16) Q-Light Co., Ltd.
178-1 Woogye-Ri, Sangdong-Myun,
Gimhae-Si GyungsangNam-Do 621-812
KR

00-23-1E (hex) Cezzer Multimedia Technologies
00231E (base 16) Cezzer Multimedia Technologies
Pépinière d'entreprises CREATIC
Plouzané 29280
FR

00-23-1F (hex) Guangda Electronic & Telecommunication Technology Development Co., Ltd.
00231F (base 16) Guangda Electronic & Telecommunication Technology Development Co., Ltd.
#8 Gaopengdong Road, Gaoxin District
Chengdu Sichuan 610041
CN

00-22-70 (hex) ABK North America, LLC
002270 (base 16) ABK North America, LLC
440 North Wolfe Rd.
Sunnyvale CA 94085
US

00-23-13 (hex) Qool Technologies Ltd.
002313 (base 16) Qool Technologies Ltd.
Gotanda Chuo Bldg 8f, 2-3-5
Shinagawa-ku Tokyo 141-0022
JP

00-23-10 (hex) LNC Technology Co., Ltd.

002310 (base 16) LNC Technology Co., Ltd.
19F, No. 78-2, Sec. 3, Taichung Kang Rd.
Taichung
40764
TW

00-23-0C (hex) CLOVER ELECTRONICS CO.,LTD.
00230C (base 16) CLOVER ELECTRONICS CO.,LTD.
AKENO 306-1
ISE City MIE Prefecture 519-0501
JP

00-22-CD (hex) Ared Technology Co., Ltd.
0022CD (base 16) Ared Technology Co., Ltd.
6F-8 No.83 Sec.1, Nankan Rd. Luzhu Shiang
Taoyuan County Taiwan 33859
TW

00-22-CC (hex) SciLog, Inc.
0022CC (base 16) SciLog, Inc.
8845 South Greenview Drive
Middleton Wisconsin 53562
US

00-22-CB (hex) IONODES Inc.
0022CB (base 16) IONODES Inc.
4001 boulevard Industriel
Laval Quebec H7L4S3
CA

00-22-C6 (hex) Sutus Inc
0022C6 (base 16) Sutus Inc
301-3999 Henning Drive
Burnaby British Columbia V5C 6P9
CA

00-22-EF (hex) iWDL Technologies
0022EF (base 16) iWDL Technologies
10522 Meinert Rd
Wexford PA 15090
US

00-22-F2 (hex) SunPower Corp
0022F2 (base 16) SunPower Corp
1414 Harbour Way South
Richmond CA
94804
US

00-22-E8 (hex) Applition Co., Ltd.
0022E8 (base 16) Applition Co., Ltd.
509-1, Bundang Techno Park D-dong,
SeongNam Kyunggi-do 463-760
KR

00-22-E9 (hex) ProVision Communications
0022E9 (base 16) ProVision Communications
1 Portland Square
Bristol BS2 8RR
GB

00-22-E6 (hex) Intelligent Data
0022E6 (base 16) Intelligent Data
Edf. Inverinnova – Avda. Punto Mobi, 4. Parque Científico Tecnológico
Alcalá de Henares Madrid 28805
ES

00-22-C8 (hex) Applied Instruments B.V.
0022C8 (base 16) Applied Instruments B.V.
Dynamoweg 3
Vlissingen Zeeland NL-4382WZ
NL

00-22-C0 (hex) Shenzhen Forcelink Electronic Co, Ltd
0022C0 (base 16) Shenzhen Forcelink Electronic Co, Ltd
2nd and 3rd floor, Hasse manufacture building, Hasee industrial park
Shenzhen Guangdong 518112
CN

00-23-01 (hex) Witron Technology Limited
002301 (base 16) Witron Technology Limited
6/F, Xin Rui Building,
32 Tao Hua Road, Futian Free Trade Zone,
Shenzhen 86
CN

00-22-F7 (hex) Conceptronic
0022F7 (base 16) Conceptronic
Databankweg 7
AMERSFOORT utrecht 3821 AL
NL

00-22-EB (hex) Data Respons A/S
0022EB (base 16) Data Respons A/S
Ellekær 6
Herlev 2730

DK

00-23-1B (hex) Danaher Motion - Kollmorgen
00231B (base 16) Danaher Motion - Kollmorgen
201 W. Rock Road
Radford VA 24141
US

00-23-34 (hex) Cisco Systems, Inc
002334 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-22-E3 (hex) Amerigon
0022E3 (base 16) Amerigon
21680 Haggerty Road
Northville Michigan 48167
US

00-22-E2 (hex) WABTEC Transit Division
0022E2 (base 16) WABTEC Transit Division
130 Ridgeview Circle
Duncan SC 29334
US

00-23-3F (hex) Purechoice Inc
00233F (base 16) Purechoice Inc
11481 Rupp Drive
Burnsville MN 55337
US

00-22-37
(hex) Shinhint Group
002237 (base 16) Shinhint Group
Unit 1506, 15/F, Nanyang Plaza,, 57 Hung To Road,

HK

00-22-2F (hex) Open Grid Computing, Inc.
00222F (base 16) Open Grid Computing, Inc.
4030-1 West Braker Lane STE130
Austin TX 78759
US

00-22-A6 (hex) Sony Computer Entertainment America
0022A6 (base 16) Sony Computer Entertainment America
919 East Hillsdale Blvd

Foster City California 94404-2175
US

00-22-A7 (hex) Tyco Electronics AMP GmbH
0022A7 (base 16) Tyco Electronics AMP GmbH
Amperestraße 12-14
Bensheim Hessen 64625
DE

00-22-A1 (hex) Huawei Symantec Technologies Co.,Ltd.
0022A1 (base 16) Huawei Symantec Technologies Co.,Ltd.
Building 1,The West Zone Science Park of UESTC,No.88,Tianchen Road
Chengdu Sichuan 611731
CN

00-22-78 (hex) Shenzhen Tongfang Multimedia Technology Co.,Ltd.
002278 (base 16) Shenzhen Tongfang Multimedia Technology Co.,Ltd.
2f Sector
D of TongFang Information Harbor
Nanshan District, Shenzhen GuangDong 518058
CN

00-22-7A (hex) Telecom Design
00227A (base 16) Telecom Design
Za Remora
33170 Gradignan
FR

00-22-6F (hex) 3onedata Technology Co. Ltd.
00226F (base 16) 3onedata Technology Co. Ltd.
3/F, B/2, Jiuxiangling Industrial District, Xili Town, Nanshan District,
Shenzhen Guangdong 518055
CN

00-22-60 (hex) AFREEY Inc.
002260 (base 16) AFREEY Inc.
6F, No.249, Chien I Road
Chung Ho City Taipei County 235
TW

00-22-9D (hex) PYUNG-HWA IND.CO.,LTD
00229D (base 16) PYUNG-HWA IND.CO.,LTD
230-1
HWASUNG-SI KYUNGGI-DO 445-912
KR

00-22-96 (hex) LinoWave Corporation
002296 (base 16) LinoWave Corporation

1001-101 Champlain Avenue
Burlington Ontario L7L 5Z4
CA

00-22-3E (hex) IRTrans GmbH
00223E (base 16) IRTrans GmbH
Einsteinstrasse 14
Unterschleissheim BAYERN 85716
DE

00-22-50
(hex) Point Six Wireless, LLC
002250 (base 16) Point Six Wireless, LLC
2333 Alumni Park Plaza
Lexington KY 40517
US

00-22-44 (hex) Chengdu Linkon Communications Device Co., Ltd
002244 (base 16) Chengdu Linkon Communications Device Co., Ltd
5f-02, Juntong Building, No. 53,Shuangfeng Road, Wuhou District,
Chengdu Sichuan 610041
CN

00-21-CA (hex) ART System Co., Ltd.
0021CA (base 16) ART System Co., Ltd.
Mobile Techno Bldg Room 910
Dae-Gu 702-020
KR

00-21-CB (hex) SMS TECNOLOGIA ELETRONICA LTDA
0021CB (base 16) SMS TECNOLOGIA ELETRONICA LTDA
Av. Pirâmide, 661
DIADEMA São Paulo 09970330
BR

00-21-C8 (hex) LOHUIS Networks
0021C8 (base 16) LOHUIS Networks
2681 TV Monster
Votlaan 408 Votlaan 31
NL

00-21-BF (hex) Hitachi High-Tech Control Systems Corporation
0021BF (base 16) Hitachi High-Tech Control Systems Corporation
500,Miyu-cho
Mito-shi Ibaraki-ken 319-0316
JP

00-21-BC

(hex) ZALA COMPUTER
0021BC (base 16) ZALA COMPUTER
EL BOUNI
ANNABA 23000
DZ

00-21-EF (hex) Kapsys
0021EF (base 16) Kapsys
790 Av du Docteur Maurice Donat
06250 Mougins Sophia Antipolis
FR

00-21-ED (hex) Telegesis
0021ED (base 16) Telegesis
84 Station Road
Marlow Bucks SL7 1NX
GB

00-21-EB (hex) ESP SYSTEMS, LLC
0021EB (base 16) ESP SYSTEMS, LLC
1422 East Fourth Street
Charlotte NC 28204
US

00-21-DF (hex) Martin Christ GmbH
0021DF (base 16) Martin Christ GmbH
An der Unteren Soese 50
Osterode Niedersachsen 37520
DE

00-21-D4 (hex) Vollmer Werke GmbH
0021D4 (base 16) Vollmer Werke GmbH
Maschinenfabrik
Biberach Baden-Württemberg 88400
DE

00-21-D6 (hex) LXI Consortium
0021D6 (base 16) LXI Consortium
P.O. Box 1016
Niwot CO 80544-1016
US

00-21-CE (hex) NTC-Metrotek
0021CE (base 16) NTC-Metrotek
9, Nevzorovoy
street
Saint-Petersburg 192148
RU

00-22-06 (hex) Cyberdyne Inc.
002206 (base 16) Cyberdyne Inc.
504 @C49-2
Tsukuba-shi Ibaraki-ken 305-0817
JP

00-22-02 (hex) Excito Elektronik i Skåne AB
002202 (base 16) Excito Elektronik i Skåne AB
Box 126
Löddeköpinge 246 22
SE

00-21-F6 (hex) Oracle Corporation
0021F6 (base 16) Oracle Corporation
900 Chelmsford Street
Lowell MA 01851
US

00-21-DB (hex) Santachi Video Technology (Shenzhen) Co., Ltd.
0021DB (base 16) Santachi Video Technology (Shenzhen) Co., Ltd.
Santachi Building,#14 Kaifeng Road,Meilin,
Shenzhen Guangdong 518049
CN

00-22-20 (hex) Mitac Technology Corp
002220 (base 16) Mitac Technology Corp
9th Fl., #75, Min-sheng E. Road, Sec. 3,
Taipei 104
TW

00-22-27 (hex) uv-electronic GmbH
002227 (base 16) uv-electronic GmbH
Grosswiesenstraße 20
Durchhausen Baden-Württemberg 78591
DE

00-21-B4
(hex) APRO MEDIA CO., LTD
0021B4 (base 16) APRO MEDIA CO., LTD
#13-5,Dodang-Dong,Wonmi-Gu,
Bucheon-City Kyunggi-Do 420-801
KR

00-21-A8 (hex) Telephonics Corporation
0021A8 (base 16) Telephonics Corporation
815 Broad Hollow Road
Farmingdale New York 11790

US

00-21-A9 (hex) Mobilink Telecom Co.,Ltd
0021A9 (base 16) Mobilink Telecom Co.,Ltd
292-3 Sindang-ri, Sandong-myun
Gumi Gyeongbuk 730-853
KR

00-22-0E (hex) Indigo Security Co., Ltd.
00220E (base 16) Indigo Security Co., Ltd.
2nd Floor, 277-169 Sungsoo2-Ga, Sungdong-Gu
Seoul 133-832
KR

00-22-07 (hex) Inteno Broadband Technology AB
002207 (base 16) Inteno Broadband Technology AB
Stensätravägen 13
Skärholmen SE 127 39
SE

00-22-25 (hex) Thales Avionics Ltd
002225 (base 16) Thales Avionics Ltd
86 Bushey Road
London SW20 0JW
GB

00-22-1E (hex) Media Devices Co., Ltd.
00221E (base 16) Media Devices
Co., Ltd.
Rm1002 Ace TechnoTower(9th) 345-30
Seoul 153-802
KR

00-21-3B (hex) Berkshire Products, Inc
00213B (base 16) Berkshire Products, Inc
PO Box 2819
Cumming GA 30028
US

00-21-37 (hex) Bay Controls, LLC
002137 (base 16) Bay Controls, LLC
6528 Weatherfield Ct
Maumee OH 43537
US

00-21-39 (hex) Escherlogic Inc.
002139 (base 16) Escherlogic Inc.
1481 Rosebank Rd.

Pickering Ontario L1V 1P3
CA

00-21-5E (hex) IBM Corp
00215E (base 16) IBM Corp
3039 E Cornwallis Road
Research Triangle Park NC 27709-2195
US

00-21-55 (hex) Cisco Systems, Inc
002155 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-21-57 (hex) National Datacast, Inc.
002157 (base 16) National Datacast, Inc.
2100 Crystal Drive, Suite 750
Arlington VA 22202
US

00-21-4D (hex) Guangzhou Skytone Transmission Technology Com. Ltd.
00214D (base 16) Guangzhou
Skytone Transmission Technology Com. Ltd.
3/F West, Block 4, Huangzhou
Guangzhou Guangdong 510660
CN

00-21-50 (hex) EYEVIEW ELECTRONICS
002150 (base 16) EYEVIEW ELECTRONICS
3 Floor, No. 86, Kung Yeh 32 Road
TAICHUNG 407
TW

00-21-74 (hex) AvaLAN Wireless
002174 (base 16) AvaLAN Wireless
958 San Leandro Ave, Suite 900
Mountain View CA 94043
US

00-21-79 (hex) IOGEAR, Inc.
002179 (base 16) IOGEAR, Inc.
23 Hubble
Irvine CA 92618
US

00-21-2C (hex) SemIndia System Private Limited
00212C (base 16) SemIndia System Private Limited

No. 1106/9, A.M Industrial Estate, Garvebhavipalya
Bangalore Karnataka 560 068
IN

00-21-2B (hex) MSA Auer
00212B (base 16) MSA Auer
Thiemannstraße 1
Berlin 12059
DE

00-21-2A (hex) Audiovox Corporation
00212A (base 16) Audiovox Corporation
150 Marcus Blvd
Hauppauge NY 11788
US

00-21-96 (hex) Telsey S.p.A.
002196
(base 16) Telsey S.p.A.
Viale dell'Industria, 1
Quinto DiTreviso 31055
IT

00-21-8D (hex) AP Router Ind. Eletronica LTDA
00218D (base 16) AP Router Ind. Eletronica LTDA
Av. Lomanto Junior, 1000
Ilheus Bahia 45654-000
BR

00-21-90 (hex) Goliath Solutions
002190 (base 16) Goliath Solutions
3082 Sterling Circle
Boulder Colorado 80301
US

00-21-85 (hex) MICRO-STAR INT'L CO.,LTD.
002185 (base 16) MICRO-STAR INT'L CO.,LTD.
No.69,Li-De St,Jung-Ho City
Taipei Hsien 235
TW

00-21-82 (hex) SandLinks Systems, Ltd.
002182 (base 16) SandLinks Systems, Ltd.
P.O.Box 4629
Petah-Tiqwa Israel 49277
IL

00-21-83 (hex) ANDRITZ HYDRO GmbH

002183 (base 16) ANDRITZ HYDRO GmbH
Eibesbrunnergasse 20
Vienna 1120
AT

00-21-A6 (hex) Videotec Spa
0021A6 (base 16) Videotec Spa
Via Friuli,6
Schio Vicenza 36015
IT

00-21-9F (hex) SATEL OY
00219F (base
16) SATEL OY
Meriniitynkatu 17
SALO Lansi-Suomen Laani 24100
FI

00-21-68 (hex) iVeia, LLC
002168 (base 16) iVeia, LLC
51 Franklin Street
Annapolis MD 21401
US

00-1F-DD (hex) GDI LLC
001FDD (base 16) GDI LLC
One MidAmerica Plaza
Oakbrook Terrace IL 60181
US

00-1F-DA (hex) Nortel Networks
001FDA (base 16) Nortel Networks
2221 Lakeside Blvd
Richardson TX 75081
US

00-1F-B0 (hex) TimeIPS, Inc.
001FB0 (base 16) TimeIPS, Inc.
3522 N Comotara St
Wichita KS 67226
US

00-1F-D9 (hex) RSD Communications Ltd
001FD9 (base 16) RSD Communications Ltd
8 Borrowmeadow Road
Stirling Scotland FK7 7UW
GB

00-1F-CE (hex) QTECH LLC
001FCE (base 16) QTECH LLC
Novozavodskaya st. 18 build. 1
Moscow Moscow region 121309
RU

00-1F-F0 (hex) Audio Partnership
001FF0 (base 16) Audio Partnership
Gallery Court
London SE1 4BB
GB

00-1F-EA (hex) Applied
Media Technologies Corporation
001FEA (base 16) Applied Media Technologies Corporation
4091 AMTC Center Drive
Clearwater FL 33764
US

00-1F-E9 (hex) Printrex, Inc.
001FE9 (base 16) Printrex, Inc.
276 East Gish Road
San Jose CA 95112
US

00-21-10 (hex) Clearbox Systems
002110 (base 16) Clearbox Systems
Suite 2, Level 2
Macquarie Park NSW 2113
AU

00-21-0C (hex) Cymtec Systems, Inc.
00210C (base 16) Cymtec Systems, Inc.
10845 Olive Bouleveard
St Louis MO 63141
US

00-21-0B (hex) GEMINI TRAZE RFID PVT. LTD.
00210B (base 16) GEMINI TRAZE RFID PVT. LTD.
1, DR. RANGA ROAD
CHENNAI TAMILNADU 600018
IN

00-21-04 (hex) Gigaset Communications GmbH
002104 (base 16) Gigaset Communications GmbH
Frankenstrasse 2
46395 Bocholt
DE

00-1F-FB (hex) Green Packet Bhd
001FFB (base 16) Green Packet Bhd
Lot 1-4, Incubator 2, Technology Park Malaysia
Kuala Lumpur
Wilayah Persekutuan 57000
MY

00-1F-85 (hex) Apriva ISS, LLC
001F85 (base 16) Apriva ISS, LLC
6900 E Camelback Rd
Scottsdale AZ 85251
US

00-1F-87 (hex) Skydigital Inc.
001F87 (base 16) Skydigital Inc.
#28-9 Wonhyoro1-ga, Yongsan-gu,
Seoul 140-846
KR

00-1F-88 (hex) FMS Force Measuring Systems AG
001F88 (base 16) FMS Force Measuring Systems AG
Aspstrasse 6
Oberglatt Zurich 8154
CH

00-1F-86 (hex) digEcor
001F86 (base 16) digEcor
1625 N. 1100 W.
Springville UT 84663
US

00-1F-80 (hex) Lucas Holding bv
001F80 (base 16) Lucas Holding bv
Domein 28
Gemert NB 5421AR
NL

00-1B-58 (hex) ACE CAD Enterprise Co., Ltd.
001B58 (base 16) ACE CAD Enterprise Co., Ltd.
2F, No. 94, Bao Chung Road,
Hsin Tien City, Taipei Hsien 23144
TW

00-1F-A5 (hex) Blue-White Industries
001FA5 (base 16) Blue-White Industries
5300 Business Drive
Huntington Beach

CA 92649
US

00-1F-9D (hex) Cisco Systems, Inc
001F9D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1F-9F (hex) Thomson Telecom Belgium
001F9F (base 16) Thomson Telecom Belgium
Prins Boudewijnlaan 47
Edegem Antwerp B-2650
BE

00-1F-A1 (hex) Gtran Inc
001FA1 (base 16) Gtran Inc
2651 Lavery Court
Newbury Park CA 91320
US

00-1F-99 (hex) SERONICS co.ltd
001F99 (base 16) SERONICS co.ltd
#401 Technopolis,
Daegu Gyeong-buk 704-230
KR

00-1F-79 (hex) Lodam Electronics A/S
001F79 (base 16) Lodam Electronics A/S
Kærvej 77
Sønderborg Als DK-6400
DK

00-1F-71 (hex) xG Technology, Inc.
001F71 (base 16) xG Technology, Inc.
240 S. Pineapple Avenue
Sarasota FL 34236
US

00-1F-6C (hex) Cisco Systems, Inc
001F6C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1F-6F (hex) Fujian Sunnada Communication
Co.,Ltd.
001F6F (base 16) Fujian Sunnada Communication Co.,Ltd.

7/F Main Building,Fujian Torch Hi-Tech Innovation Park No.611 Industrial Road,Fuzhou Fuzhou Fujian China 350002
Fuzhou Fujian 350002
CN

00-1F-60 (hex) COMPASS SYSTEMS CORP.
001F60 (base 16) COMPASS SYSTEMS CORP.
6F, No. 413, Sec. 2, Ti-Ding Blvd.,
Taipei NeihuDist 114
TW

00-1F-6A (hex) PacketFlux Technologies, Inc.
001F6A (base 16) PacketFlux Technologies, Inc.
50 11th Avenue
Helena MT 59601
US

00-1F-65 (hex) KOREA ELECTRIC TERMINAL CO., LTD.
001F65 (base 16) KOREA ELECTRIC TERMINAL CO., LTD.
#7-38 SONGDO-DONG
YEONSU-GU INCHEON 406-840
KR

00-1F-5E (hex) Dyna Technology Co.,Ltd.
001F5E (base 16) Dyna Technology Co.,Ltd.
HaoHai Building 1F,No.7,5th Street,Shangdi,
Beijing 100085
CN

00-1F-55 (hex) Honeywell Security (China) Co., Ltd.
001F55 (base 16) Honeywell Security (China) Co., Ltd.
Block
28, Section 2, Huai De Cui Gang Industrial Estate, Fu Yong, Bao An, ShenZhen, P.R. China
ShenZhen GuangDong 518103
CN

00-1F-54 (hex) Lorex Technology Inc.
001F54 (base 16) Lorex Technology Inc.
250 Royal Crest Court
Markham Ontario L3R3S1
CA

00-1F-4B (hex) Lineage Power
001F4B (base 16) Lineage Power
3000 Skyline Dr.
Mesquite TX 75149
US

00-1F-40 (hex) Speakercraft Inc.
001F40 (base 16) Speakercraft Inc.
5919 Sea Otter Place
Carlsbad CA 92010
US

00-1F-2E (hex) Triangle Research Int'l Pte Ltd
001F2E (base 16) Triangle Research Int'l Pte Ltd
10 Ubi Crescent #05-83
Ubi Techpark SG 408664
SG

00-1F-23 (hex) Interacoustics
001F23 (base 16) Interacoustics
Drejervaenget 8
Assens DK 5610
DK

00-1F-96 (hex) APROTECH CO.LTD
001F96 (base 16) APROTECH CO.LTD
KOLONDIGITAL TOWER ASTON 201, 505-14
SEOUL KSXX 0022
KR

00-1F-8B (hex) Cache IQ
001F8B
(base 16) Cache IQ
8834 North Capital of Texas Hwy
Austin Texas 78759
US

00-1F-AE (hex) Blick South Africa (Pty) Ltd
001FAE (base 16) Blick South Africa (Pty) Ltd
PO Box 1908
Johannesburg Gauteng 2108
ZA

00-1E-FA (hex) PROTEI Ltd.
001EFA (base 16) PROTEI Ltd.
60A B.Sampsonievsky, Business Center
St.Petersburg RU 194044
RU

00-1E-FB (hex) Trio Motion Technology Ltd
001EFB (base 16) Trio Motion Technology Ltd
Shannon Way
Tewkesbury Gloucestershire GL20 8ND
GB

00-1E-F8 (hex) Emfinity Inc.
001EF8 (base 16) Emfinity Inc.
1305 Kelly Lake Road
Sudbury Ontario P3E5P5
CA

00-1E-E8 (hex) Mytek
001EE8 (base 16) Mytek
151 Lafayette Str 3 Fl
New York NY 10013
US

00-1E-EE (hex) ETL Systems Ltd
001EEE (base 16) ETL Systems Ltd
Coldwell Radio Station
Hereford Herefordshire HR2 9NE
GB

00-1E-B4 (hex) UNIFAT TECHNOLOGY LTD.
001EB4 (base 16) UNIFAT
TECHNOLOGY LTD.
7/FLOOR, SUI HONG IND. BLDG.,
KWAI CHUNG N.T.
HK

00-1E-A8 (hex) Datang Mobile Communications Equipment CO.,LTD
001EA8 (base 16) Datang Mobile Communications Equipment CO.,LTD
No.29,Xueyuan Rd.
Beijing 100083
CN

00-1E-AB (hex) TeleWell Oy
001EAB (base 16) TeleWell Oy
Alahotie 14 b
Jarvenpaa Uusimaa 04430
FI

00-1E-9F (hex) Visioneering Systems, Inc.
001E9F (base 16) Visioneering Systems, Inc.
5931 Sea Lion Place
Carlsbad California 92010
US

00-1F-17 (hex) IDX Company, Ltd.
001F17 (base 16) IDX Company, Ltd.
6-28-11 Shukugawara, Tana-ku
Kawasaki-Shi Kanagawa-Ken 2140021

JP

00-1F-1B (hex) RoyalTek Company Ltd.
001F1B (base 16) RoyalTek Company Ltd.
Suite 9F-1, No. 1071, Chung Cheng Rd.
Taoyuan Shien Taoyuan 330
TW

00-1E-D5 (hex) Tekon-Automatics
001ED5 (base 16) Tekon-Automatics
Zelenograd, 512-29
Moscow 124482
RU

00-1E-CB
(hex) RPC Energoautomatika Ltd
001ECB (base 16) RPC Energoautomatika Ltd
Krasnokazarmennaya st., 13/1
Moscow 111250
RU

00-1E-BA (hex) High Density Devices AS
001EBA (base 16) High Density Devices AS
Vestre Strandgate 26
Kristiansand 4611
NO

00-1E-FC (hex) JSC MASSA-K
001EFC (base 16) JSC MASSA-K
15, A, Pirogovskaya nab.
Saint-Petersburg Leningradskiy reg. 194044
RU

00-1F-06 (hex) Integrated Dispatch Solutions
001F06 (base 16) Integrated Dispatch Solutions
645 Mountain Ave
Wyckoff NJ 07481
US

00-1E-E0 (hex) Urmet SpA
001EE0 (base 16) Urmet SpA
Via Bologna 188/C
Torino TO I-10154
IT

00-1E-DA (hex) Wesemann Elektrotechniek B.V.
001EDA (base 16) Wesemann Elektrotechniek B.V.
Droogbloem 31

Rotterdam Zuid-Holland 3068 AW
NL

00-1E-D7 (hex) H-Stream Wireless, Inc.
001ED7 (base 16) H-Stream Wireless, Inc.
2595 East Bayshore Road
Palo
Alto CA 94303
US

00-1E-9B (hex) San-Eisha, Ltd.
001E9B (base 16) San-Eisha, Ltd.
2-1 Ebara 5-chome
Shinagawa-ku Tokyo 142-8611
JP

00-1E-96 (hex) Sepura Plc
001E96 (base 16) Sepura Plc
Radio House
Cambridge CAMBRIDGESHIRE CB4 1GR
GB

00-1F-0D (hex) L3 Communications - Telemetry West
001F0D (base 16) L3 Communications - Telemetry West
9020 Balboa Ave
San Diego CA 92123
US

00-1E-1B (hex) Digital Stream Technology, Inc.
001E1B (base 16) Digital Stream Technology, Inc.
4,5,6th Fl., TaeChang B/D, 451-1
Seoul 134-030
KR

00-1E-17 (hex) STN BV
001E17 (base 16) STN BV
Amerikaweg 4
Hulst Zeeland 4561 PB
NL

00-1E-18 (hex) Radio Activity srl
001E18 (base 16) Radio Activity srl
Via De Notaris 50
Milano MI 20128
IT

00-1E-15 (hex) Beech Hill Electronics
001E15 (base 16) Beech Hill Electronics

Beechcroft, Beech Hill Road
Reading Berkshire
RG7 2AU
GB

00-1E-05 (hex) Xseed Technologies & Computing
001E05 (base 16) Xseed Technologies & Computing
Topaz House, MATAM
Haifa 39100
IL

00-1E-07 (hex) Winy Technology Co., Ltd.
001E07 (base 16) Winy Technology Co., Ltd.
305-303, Bucheon Techno-park, #365
Bucheon Gyeonggi-do 421-741
KR

00-1E-0A (hex) Syba Tech Limited
001E0A (base 16) Syba Tech Limited
RM1301, Vanta Industrial Centre,
Kwai Chung
HK

00-1E-03 (hex) LiComm Co., Ltd.
001E03 (base 16) LiComm Co., Ltd.
908-1 SEO-RI, IDONG-MYEON
YONGIN-SI GYEONGGI-DO 449-834
KR

00-1E-71 (hex) MIrcom Group of Companies
001E71 (base 16) MIrcom Group of Companies
25 Interchange Way
Vaughan, Ontario l4K 5W3
CA

00-1E-6B (hex) Cisco SPVTG
001E6B (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

00-1E-70 (hex) Chelton Limited
001E70 (base 16) Chelton Limited
The Chelton
Centre, Fourth Avenue
Marlow Buckinghamshire SL7 1TF
GB

00-1E-61 (hex) ITEC GmbH
001E61 (base 16) ITEC GmbH
Lassnitzthal 300
A-8200 Gleisdorf
AT

00-1E-3E (hex) KMW Inc.
001E3E (base 16) KMW Inc.
65 Youngchun-ri, Dongtan-myun
Hwasung-si Kyungki-do 445-813
KR

00-1E-38 (hex) Bluecard Software Technology Co., Ltd.
001E38 (base 16) Bluecard Software Technology Co., Ltd.
D-801 Shangdi Science Building
Beijing 100085
CN

00-1E-59 (hex) Silicon Turnkey Express, LLC
001E59 (base 16) Silicon Turnkey Express, LLC
749 Miner Road
Highland Heights Ohio 44143
US

00-1E-51 (hex) Converter Industry Srl
001E51 (base 16) Converter Industry Srl
Via Euclide, 12
Forli' FC 47100
IT

00-1E-47 (hex) PT. Hariff Daya Tunggal Engineering
001E47 (base 16) PT. Hariff Daya Tunggal Engineering
Jl. Soekarno Hatta No. 450
Bandung Jawa Barat 40266
ID

00-1E-48 (hex) Wi-Links
001E48
(base 16) Wi-Links
332 Ayiou street
Limassol 3725
CY

00-1E-8A (hex) eCopy, Inc
001E8A (base 16) eCopy, Inc
1 Oracle Dr
Nashua NH 03062
US

00-1E-30 (hex) Shireen Inc
001E30 (base 16) Shireen Inc
8531 Ziggy Lane
Gaithersburg MD 20877
US

00-1E-2E (hex) SIRTI S.p.A.
001E2E (base 16) SIRTI S.p.A.
Via Bombrini 11/3
GENOA 16149
IT

00-1D-A6 (hex) Media Numerics Limited
001DA6 (base 16) Media Numerics Limited
Rodenbacher Chaussee 6
Hanau Hessen 63457
DE

00-1D-9D (hex) ARTJOY INTERNATIONAL LIMITED
001D9D (base 16) ARTJOY INTERNATIONAL LIMITED
Room 1601,No.239 ZhongXing Road,LuoHu District
Shenzhen Guangdong 518001
CN

00-1D-9E (hex) AXION TECHNOLOGIES
001D9E (base 16) AXION TECHNOLOGIES
151 RUE PARC INNOVATION
LA POCATIERE QUEBEC G0R1Z0
US

00-1D-F8 (hex) Webpro Vision Technology Corporation
001DF8 (base 16) Webpro Vision
Technology Corporation
4F., No.573, Cingping Rd.
Anping District 708
TW

00-1D-F9 (hex) Cybiotronics (Far East) Limited
001DF9 (base 16) Cybiotronics (Far East) Limited
Unit 1906, Eastern Centre,
Quarry Bay
HK

00-1D-F7 (hex) R. STAHL Schaltgeräte GmbH
001DF7 (base 16) R. STAHL Schaltgeräte GmbH
am Bahnhof 30
Waldenburg Baden-Württemberg 74638

DE

00-1D-EB (hex) DINEC International
001DEB (base 16) DINEC International
Rue de la Gare, 30
BRAINE L'ALLEUD BRABANT WALLON 1420
BE

00-1D-9A (hex) GODEX INTERNATIONAL CO., LTD
001D9A (base 16) GODEX INTERNATIONAL CO., LTD
4F. NO.168, Lian-Cheng Road Chung-Ho City,
Taipei Hsien 235
US

00-1D-97 (hex) Alertus Technologies LLC
001D97 (base 16) Alertus Technologies LLC
11785 Beltsville Drive
Beltsville MD 20705
US

00-1D-91 (hex) Digitize, Inc
001D91 (base 16) Digitize, Inc
158 Edison Road
Lake Hopatcong
New Jersey 07849
US

00-1D-C4 (hex) AIOI Systems Co., Ltd.
001DC4 (base 16) AIOI Systems Co., Ltd.
KDX Omori, Bldg 8F
Tokyo 140-0016
JP

00-1D-C0 (hex) Enphase Energy
001DC0 (base 16) Enphase Energy
201 1st Street, Suite 111
Petaluma CA 94952
US

00-1D-BD (hex) Versamed Inc.
001DBD (base 16) Versamed Inc.
2 Blue Hill Plaza
Pearl River NY 10965
US

00-1D-DC (hex) HangZhou DeChangLong Tech&Info Co.,Ltd
001DDC (base 16) HangZhou DeChangLong Tech&Info Co.,Ltd
Room 1102,KeJi Mansion,

HangZhou ZheJiang 310012
CN

00-1D-B7 (hex) Tendril Networks, Inc.
001DB7 (base 16) Tendril Networks, Inc.
5700-D Flatiron Parkway
Boulder CO 80301
US

00-1D-AE (hex) CHANG TSENG TECHNOLOGY CO., LTD
001DAE (base 16) CHANG TSENG TECHNOLOGY CO., LTD
2F NO.160 BACK BUILDING, LEN CHENG RD., CHUNG HO CITY
TAIPEI HSIEN 235
TW

00-1D-7F (hex) Tekron International Ltd
001D7F
(base 16) Tekron International Ltd
409 Cuba Street, Alicetown
Lower Hutt Wellington 5010
NZ

00-1D-95 (hex) Flash, Inc.
001D95 (base 16) Flash, Inc.
3703 N. 200th St.
Elkhorn NE 68022-2922
US

00-1D-8D (hex) Fluke Process Instruments GmbH
001D8D (base 16) Fluke Process Instruments GmbH
Blankenburger Str. 135
Berlin 13127
DE

00-1D-1F (hex) Siauliu Tauro Televizoriai, JSC
001D1F (base 16) Siauliu Tauro Televizoriai, JSC
Pramones,15
Siauliai LT-57318
LT

00-1D-70 (hex) Cisco Systems, Inc
001D70 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1D-79 (hex) SIGNAMAX LLC
001D79 (base 16) SIGNAMAX LLC

1090 Vermont Avenue
Washington Washington D.C. 20005
US

00-1D-6F (hex) Chainzone Technology Co., Ltd
001D6F (base 16) Chainzone Technology Co., Ltd
Chainzone Tech. Ind Park, Nanxin 1st Rd.
Foshan Guangdong 528200
CN

00-1D-78
(hex) Invengo Information Technology Co.,Ltd
001D78 (base 16) Invengo Information Technology Co.,Ltd
3/F,No.T2-B,High-Tech Industrial Park South
Shenzhen Guangdong 518057
CN

00-1D-13 (hex) NextGTV
001D13 (base 16) NextGTV
13F Byucksan/Kyungin Digital Valley ll
Seoul 153-803
KR

00-1D-10 (hex) LightHaus Logic, Inc.
001D10 (base 16) LightHaus Logic, Inc.
126-1020 Mainland Street
Vancouver BC V6B 2T4
CA

00-1D-14 (hex) SPERADTONE INFORMATION TECHNOLOGY LIMITED
001D14 (base 16) SPERADTONE INFORMATION TECHNOLOGY LIMITED
Room 1001 NO.418 Gui Ping Road,
Shanghai 200233
CN

00-1D-43 (hex) Shenzhen G-link Digital Technology Co., Ltd.
001D43 (base 16) Shenzhen G-link Digital Technology Co., Ltd.
4F, E Building,Huachuang Da Technology Zone ,Hangcheng Highway,Gushu,Xixiang ,
shenzhen GuangDong 518126
CN

00-1D-3F (hex) Mitron Pty Ltd
001D3F (base 16) Mitron Pty Ltd
Unit
11
Artarmon NSW 2065
AU

00-1D-39 (hex) MOOHADIGITAL CO., LTD
001D39 (base 16) MOOHADIGITAL CO., LTD
Seoul Hightech Venture Center C-307 647-26
SEOUL 157-030
KR

00-1D-37 (hex) Thales-Panda Transportation System
001D37 (base 16) Thales-Panda Transportation System
6th floor, HUIJIE Plaza, 268 Zhongshan Rd.
nanjing jiangsu 210008
CN

00-1D-30 (hex) YX Wireless S.A.
001D30 (base 16) YX Wireless S.A.
Av. Vicuña Mackenna #4860
Santiago 8580710
US

00-1C-F2 (hex) Tenlon Technology Co.,Ltd.
001CF2 (base 16) Tenlon Technology Co.,Ltd.
4/F.,Shenhua Bldg,No.3155,Binhe Road,Futian District
Shenzhen Guangdong 518033
CN

00-1C-EC (hex) Mobilesoft (Aust.) Pty Ltd
001CEC (base 16) Mobilesoft (Aust.) Pty Ltd
Suite 2, 27-35 Grosvenor Street
Sydney NSW 2089
AU

00-1C-E8 (hex) Cummins Inc
001CE8 (base 16) Cummins Inc
1400 73rd Ave NE
Fridley MN 55432
US

00-1D-04
(hex) Zipit Wireless, Inc.
001D04 (base 16) Zipit Wireless, Inc.
49 Salters Road.
Greenville SC 29607
US

00-1D-62 (hex) InPhase Technologies
001D62 (base 16) InPhase Technologies
2000 Pike Road
Longmont Colorado 80501
US

00-1D-63 (hex) Miele & Cie. KG
001D63 (base 16) Miele & Cie. KG
Carl-Miele-Straße 29
Gütersloh 33332
DE

00-1C-C7 (hex) Rembrandt Technologies, LLC d/b/a REMSTREAM
001CC7 (base 16) Rembrandt Technologies, LLC d/b/a REMSTREAM
140 South Beverly Drive
Beverly Hills CA 90212
US

00-1C-BB (hex) MusicianLink
001CBB (base 16) MusicianLink
2401 Cory Ave.
San Jose CA 95128
US

00-1C-B2 (hex) BPT SPA
001CB2 (base 16) BPT SPA
Via Stazione,48
Sesto al Reghena Pordenone 33079
IT

00-1C-B5 (hex) Neihua Network Technology Co.,LTD.(NHN)
001CB5 (base 16) Neihua Network Technology Co.,LTD.(NHN)
Plot Xinmei Road 102-Q,New District
WuXi
Jiangsu 214028
CN

00-1C-5C (hex) Integrated Medical Systems, Inc.
001C5C (base 16) Integrated Medical Systems, Inc.
1984 Obispo Avenue
Signal Hill CA 90755
US

00-1C-52 (hex) VISIONEE SRL
001C52 (base 16) VISIONEE SRL
VIALE DELLA REPUBBLICA, 22
VILLORBA TREVISO 31050
IT

00-1C-47 (hex) Hangzhou Hollysys Automation Co., Ltd
001C47 (base 16) Hangzhou Hollysys Automation Co., Ltd
No.10 Middle Road, Jiancaicheng, Haidian District,
Beijing 100096

CN

00-1C-D0 (hex) Circleone Co.,Ltd.
001CD0 (base 16) Circleone Co.,Ltd.
860-1,Noda
Beppu-shi Ooita-ken 874-0016
JP

00-1C-CD (hex) Alektrona Corporation
001CCD (base 16) Alektrona Corporation
95 Hathaway Street, Suite 10
Providence RI 02907
US

00-1C-6C (hex) 30805
001C6C (base 16) 30805
128, Jun Cheng Road,uangzhou Economic and Technological Development District
Guangzhou Guangdong 510530
CN

00-1C-61 (hex) Galaxy
Microsystems LImited
001C61 (base 16) Galaxy Microsystems LImited
Room 1101-03, 11/F Enterprise Square Two
Kowloon Bay Kowloon
HK

00-1C-63 (hex) TRUEN
001C63 (base 16) TRUEN
4F SAMWON BLDG., 451-7
SEOUL 137-818
KR

00-1C-B4 (hex) Iridium Satellite LLC
001CB4 (base 16) Iridium Satellite LLC
8440 S. River Parkway
Tempe AZ 85284
US

00-1C-B6 (hex) Duzon CNT Co., Ltd.
001CB6 (base 16) Duzon CNT Co., Ltd.
14th Floor, IRE building 2
Seoul 150-967
KR

00-1C-9F (hex) Razorstream, LLC
001C9F (base 16) Razorstream, LLC
2381-C Renaissance Drive

Las Vegas NV 89119
US

00-1C-7D (hex) Excelpoint Manufacturing Pte Ltd
001C7D (base 16) Excelpoint Manufacturing Pte Ltd
15, Changi Business Park
486057
SG

00-1C-77 (hex) Prodys
001C77 (base 16) Prodys
C/Trigo 54 Pol. Ind. Polvoranca
Leganes MADRID 28914
ES

00-1C-6F (hex) Emfit Ltd
001C6F
(base 16) Emfit Ltd
Konttisentie 8 B
Vaajakoski 40800
FI

00-1C-89 (hex) Force Communications, Inc.
001C89 (base 16) Force Communications, Inc.
3810 Arbordale Lane
Sachse TX 75048
US

00-1C-87 (hex) Uriver Inc.
001C87 (base 16) Uriver Inc.
3rd., Fl., Bogwang Bldg., Poi-dong, 238-7 Gangnam-gu,
Seoul 135-964
KR

00-1C-8D (hex) Mesa Imaging
001C8D (base 16) Mesa Imaging
Badenerstrasse 569
Zürich ZH 8048
CH

00-1C-49 (hex) Zoltan Technology Inc.
001C49 (base 16) Zoltan Technology Inc.
4F, No.30, Wunsi St.
Jhubei Hsinchu 302
TW

00-1C-3F (hex) International Police Technologies, Inc.
001C3F (base 16) International Police Technologies, Inc.

4150 S. 87th E. Avenue
Tulsa OK 74145
US

00-1C-3B (hex) AmRoad Technology Inc.
001C3B (base 16) AmRoad Technology Inc.
18F-3 No. 150 , Chien I Rd
Chung Ho Taipei Hsien 23511
TW

00-1C-32 (hex) Telian
Corporation
001C32 (base 16) Telian Corporation
4FL. Namjeon Bldg. 53-3 Haandong
Kwangmyungsi Kyoungkido 423060
KR

00-1C-2B (hex) Alertme.com Limited
001C2B (base 16) Alertme.com Limited
30 Station Road
Cambridge Cambridgeshire CB1 2RE
GB

00-1B-93 (hex) JC Decaux SA DNT
001B93 (base 16) JC Decaux SA DNT
21 rue claude Bernard
MAUREPAS 78310
FR

00-1B-9B (hex) Hose-McCann Communications
001B9B (base 16) Hose-McCann Communications
1241 West Newport Center Drive
Deerfield Beach FL 33442
US

00-1B-9C (hex) SATEL sp. z o.o.
001B9C (base 16) SATEL sp. z o.o.
Schuberta 79
Gdansk pomorskie 80-172
PL

00-1C-16 (hex) ThyssenKrupp Elevator
001C16 (base 16) ThyssenKrupp Elevator
9280 Crestwyn Hills Drive
Memphis TN 38125
US

00-1C-19 (hex) secunet Security Networks AG

001C19 (base 16) secunet Security Networks AG
Kronprinzenstraße 30
Essen NRW 45128
DE

00-1C-09
(hex) SAE Electronic Co.,Ltd.
001C09 (base 16) SAE Electronic Co.,Ltd.
23/F,Ying Long Zhan Ye Building,
Shenzhen Guang Dong 518040
CN

00-1C-0C (hex) TANITA Corporation
001C0C (base 16) TANITA Corporation
1-14-2,Maeno-cho
Tokyo 174-8630
JP

00-1B-E1 (hex) ViaLogy
001BE1 (base 16) ViaLogy
2400 Lincoln Ave
Altadena CA 91001
US

00-1B-DF (hex) Iskra Sistemi d.d.
001BDF (base 16) Iskra Sistemi d.d.
Stegne 21
Ljubljana Slovenia 1000
SI

00-1B-D9 (hex) Edgewater Wireless Systems Inc
001BD9 (base 16) Edgewater Wireless Systems Inc
50 HInes Road Suite 200
Ottawa Ontario K2K-2M5
CA

00-1B-B4 (hex) Airvod Limited
001BB4 (base 16) Airvod Limited
Heather House
Sandyford Ind Est Dublin 18 D18
IE

00-1B-B6 (hex) Bird Electronic Corp.
001BB6 (base 16) Bird Electronic Corp.
30303 Aurora Road
Solon Ohio 44139
US

00-1B-A6 (hex) intotech
inc.
001BA6 (base 16) intotech inc.
13F DMC R&D Center E3-2 Building Land Development District Sangam-Dong
Mapogu Seoul 121-270
KR

00-1B-A4 (hex) S.A.E Afikim
001BA4 (base 16) S.A.E Afikim
Kibutz Afikim
Kibutz Afikim 15148
IL

00-1B-EC (hex) Netio Technologies Co., Ltd
001BEC (base 16) Netio Technologies Co., Ltd
4F-1, No. 582, Rueiguang Rd., Neihu District
Taipei 11492
TW

00-1B-E8 (hex) Ultratronik GmbH
001BE8 (base 16) Ultratronik GmbH
Dornierstr. 9
Gilching 822205
DE

00-1C-28 (hex) Sphairon Technologies GmbH
001C28 (base 16) Sphairon Technologies GmbH
Philipp-Reis-Strasse 1
Bautzen Saxony 02625
DE

00-1C-1F (hex) Quest Retail Technology Pty Ltd
001C1F (base 16) Quest Retail Technology Pty Ltd
37-39 Walsh Street
Thebarton SA 5031
AU

00-1B-C7 (hex) StarVedia Technology Inc.
001BC7 (base 16) StarVedia Technology Inc.
3F, No.
247, Done Sec. 1, Guangming 6th Rd.
Jhubei Hsin-Chu County 302
TW

00-1B-92 (hex) l-acoustics
001B92 (base 16) l-acoustics
parc de la fontaine de jouvence
marcoussis essonne 91462

FR

00-1B-8E (hex) Hulu Sweden AB
001B8E (base 16) Hulu Sweden AB
Box 12328, 10228
Kista Stockholm 164 40
SE

00-1B-8A (hex) 2M Electronic A/S
001B8A (base 16) 2M Electronic A/S
Malervej 10
Taastrup 2630
DK

00-1B-6B (hex) Swyx Solutions AG
001B6B (base 16) Swyx Solutions AG
Joseph-von-Fraunhofer-straße 13a
Dortmund 44227
DE

00-1B-69 (hex) Equaline Corporation
001B69 (base 16) Equaline Corporation
9F, No. 234, Section 4, Cheng-De Road,
Taipei Hsien 25162
TW

00-1B-68 (hex) Modnnet Co., Ltd
001B68 (base 16) Modnnet Co., Ltd
2139 Daemyung-Dong DIP main B/D Room#505, Namgu
Daegu Kyungsang Bookdo 705-701
KR

00-1B-62 (hex) JHT Optoelectronics Co.,Ltd.
001B62 (base
16) JHT Optoelectronics Co.,Ltd.
Hetian Industrial Park 2rd,Houjie Town, Donguan,
Dongguan Guangdong 523945
CN

00-1B-45 (hex) ABB AS, Division Automation Products
001B45 (base 16) ABB AS, Division Automation Products
Bergerveien 12
Billingstad NO-1375
NO

00-1B-3F (hex) ProCurve Networking by HP
001B3F (base 16) ProCurve Networking by HP
60 Alexandra Terrace

118502
SG

00-1B-41 (hex) General Infinity Co.,Ltd.
001B41 (base 16) General Infinity Co.,Ltd.
3F,No.169, Xing-ai Rd,
Taipei 114
TW

00-1B-76 (hex) Ripcode, Inc.
001B76 (base 16) Ripcode, Inc.
1130 E. Arapaho Road
Richardson TX 75081
US

00-1B-70 (hex) IRI Ubiteq, INC.
001B70 (base 16) IRI Ubiteq, INC.
Shinjuku-Nomura Bldg. 47F,
Shinjuku-ku Tokyo 163-0547
JP

00-1B-6C (hex) LookX Digital Media BV
001B6C (base 16) LookX Digital Media BV
Roekenveldweg 1
Brunssum Limburg 6446DK
NL

00-1B-50
(hex) Nizhny Novgorod Factory named after M.Frunze, FSUE (NZiF)
001B50 (base 16) Nizhny Novgorod Factory named after M.Frunze, FSUE (NZiF)
174, Gagarina Avenue
Nizhny Novgorod Russia 603950
RU

00-1B-47 (hex) Futarque A/S
001B47 (base 16) Futarque A/S
Aagade 15B
Aalborg 9000
DK

00-1B-23 (hex) SimpleComTools
001B23 (base 16) SimpleComTools
598 Indian Trail Rd S.
Indian Trail NC 28079
US

00-1B-3E (hex) Curtis, Inc.
001B3E (base 16) Curtis, Inc.

2405 Annapolis Lane
Minneapolis MN 55441
US

00-1B-37 (hex) Computec Oy
001B37 (base 16) Computec Oy
Juholankatu 8
Kouvola Kymi 45200
FI

00-1B-30 (hex) Solitech Inc.
001B30 (base 16) Solitech Inc.
1838 Main Street
Stevensville MD 21666
US

00-1B-80 (hex) LORD Corporation
001B80 (base 16) LORD Corporation
2000 West Grandview Blvd
Erie Pa 16509
US

00-1B-18 (hex) Tsuken Electric Ind.
Co.,Ltd
001B18 (base 16) Tsuken Electric Ind. Co.,Ltd
3-9 Akedouri Izumi-ku
Sendai City Miyagi 981-3206
JP

00-1A-8B (hex) CHUNIL ELECTRIC IND., CO.
001A8B (base 16) CHUNIL ELECTRIC IND., CO.
308,ByuckSan Digital Valley,132-7,Gamjeon-Dong,Sasang-Gu
Busan GyeongSangNamDo 617-800
KR

00-1A-8D (hex) AVECS Bergen GmbH
001A8D (base 16) AVECS Bergen GmbH
Billrothstraße 11 a
Bergen auf Rügen M/V 18528
DE

00-1A-95 (hex) Hisense Mobile Communications Technoligy Co.,Ltd.
001A95 (base 16) Hisense Mobile Communications Technoligy Co.,Ltd.
11,JiangXi Road,
QingDao ShanDong 266071
CN

00-1A-81 (hex) Zelax

001A81 (base 16) Zelax
2nd buid., 1B, Zavodskaya st.,
Moscow 124681
RU

00-1A-87 (hex) Canhold International Limited
001A87 (base 16) Canhold International Limited
Flat 4, 13/F., Block 4, Tai Ping Industrial Centre
00852
HK

00-1B-07 (hex) Mendocino Software
001B07
(base 16) Mendocino Software
47001 Benecia St.
Fremont CA 94538
US

00-1B-08 (hex) Danfoss Drives A/S
001B08 (base 16) Danfoss Drives A/S
Ulsnaes 1
Graasten 6300
DK

00-1B-01 (hex) Applied Radio Technologies
001B01 (base 16) Applied Radio Technologies
1124 South Service Road West
Oakville Ontario L6L 5T7
CA

00-1B-02 (hex) ED Co.Ltd
001B02 (base 16) ED Co.Ltd
517-15 SangDaeWon-Dong
SeongNam-City GyeongGi-Do 462-806
KR

00-1A-FC (hex) ModusLink Corporation
001AFC (base 16) ModusLink Corporation
2905 Prestonwood Drive
Plano Texas 75093
US

00-1A-BE (hex) COMPUTER HI-TECH INC.
001ABE (base 16) COMPUTER HI-TECH INC.
HigashiUeno3-18-7
Taitoku Tokyo 110-0015
JP

00-1A-C1 (hex) 3Com Ltd
001AC1 (base 16) 3Com Ltd
Peoplebuilding 2
Hemel Hempstead Herts HP2 4NW
GB

00-1A-BB (hex) Fontal Technology Incorporation
001ABB (base 16) Fontal Technology
Incorporation
Rm.522, Bldg. 52, 195, Sec. 4, ChungHsing Rd., Chutung
Hsinchu 310
TW

00-1A-BD (hex) Impatica Inc.
001ABD (base 16) Impatica Inc.
205-1725 St. Laurent Blvd.
Ottawa ON K1G 3V4
CA

00-1A-AE (hex) Savant Systems LLC
001AAE (base 16) Savant Systems LLC
45 Perseverance Way
Hyannis Massachusetts 02601
US

00-1A-D7 (hex) Christie Digital Systems, Inc.
001AD7 (base 16) Christie Digital Systems, Inc.
809 Wellington Street North
Kitchener Ontario N2G 4Y7
CA

00-1A-CD (hex) Tidel Engineering LP
001ACD (base 16) Tidel Engineering LP
2025 W Belt Line Road Suite 114
Carrollton TX 75019
US

00-1A-C9 (hex) SUZUKEN CO.,LTD
001AC9 (base 16) SUZUKEN CO.,LTD
SUZUKEN TOMEI BLDG.
NAGOYA-SI AICHI-KEN 465-0045
JP

00-1A-B4 (hex) FFEI Ltd.
001AB4 (base 16) FFEI Ltd.
Graphics House
Hemel Hempstead Hertfordshire HP2 7SU
GB

00-1A-B5 (hex) Home
Network System
001AB5 (base 16) Home Network System
107, Hyundai I-Vally
Seongnam-si Gyeonggi-do 462-714
KR

00-1A-79 (hex) TELECOMUNICATION TECHNOLOGIES LTD.
001A79 (base 16) TELECOMUNICATION TECHNOLOGIES LTD.
4D ZHUKOVA BLV.
ODESSA 65121
UA

00-1A-AA (hex) Analogic Corp.
001AAA (base 16) Analogic Corp.
8 Centennial Drive
Peabody MA 01960
US

00-1A-F6 (hex) Woven Systems, Inc.
001AF6 (base 16) Woven Systems, Inc.
2455 Augustine Drive
Santa Clara CA 95054
US

00-1A-F9 (hex) AeroVIronment (AV Inc)
001AF9 (base 16) AeroVIronment (AV Inc)
4685 Industrial St
Simi Valley CA 93063
US

00-1A-E0 (hex) Mythology Tech Express Inc.
001AE0 (base 16) Mythology Tech Express Inc.
2F, No.10, Lane 235, Bao Chiao road,
Taipei 231
TW

00-1A-E2 (hex) Cisco Systems, Inc
001AE2 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1B-10
(hex) ShenZhen Kang Hui Technology Co.,ltd
001B10 (base 16) ShenZhen Kang Hui Technology Co.,ltd
China GuangDong

ShenZhen GuangDong 518109
CN

00-1B-0B (hex) Phidgets Inc.
001B0B (base 16) Phidgets Inc.
2715A 16A Street N.W.
Calgary Alberta T2M 3R7
CA

00-1B-0C (hex) Cisco Systems, Inc
001B0C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1A-A4 (hex) Future University-Hakodate
001AA4 (base 16) Future University-Hakodate
116-2 Kamedanakano-cho
Hakodate Hokkaido 041-8655
JP

00-1A-9F (hex) A-Link Ltd
001A9F (base 16) A-Link Ltd
Kylavainiontie 20
Espoo FI-02760
FI

00-1A-E7 (hex) Aztek Networks, Inc.
001AE7 (base 16) Aztek Networks, Inc.
2477 55th St. #202
Boulder CO 80301
US

00-1A-20 (hex) CMOTECH Co. Ltd.
001A20 (base 16) CMOTECH Co. Ltd.
5F Etronix Bldg. 17-10
Youngdungpo-Gu Seoul 150-874
KR

00-1A-19
(hex) Computer Engineering Limited
001A19 (base 16) Computer Engineering Limited
PO Box 493
Auckland AK 2340
NZ

00-1A-18 (hex) Advanced Simulation Technology inc.
001A18 (base 16) Advanced Simulation Technology inc.

500A Huntmar Park Drive
Herndon VA 20170
US

00-1A-13 (hex) Wanlida Group Co., LTD
001A13 (base 16) Wanlida Group Co., LTD
Jiahe Road No.618
Xiamen Fujian 361006
CN

00-1A-5C (hex) Euchner GmbH+Co. KG
001A5C (base 16) Euchner GmbH+Co. KG
Kohlhammerstraße 16
Leinfelden-Echterdingen BW 70771
DE

00-1A-5B (hex) NetCare Service Co., Ltd.
001A5B (base 16) NetCare Service Co., Ltd.
5-13-16 Shimizu, Asahi-ku
Osaka 535-0021
JP

00-1A-4E (hex) NTI AG / LinMot
001A4E (base 16) NTI AG / LinMot
Haerdlistrasse 15
Spreitenbach AG 8957
CH

00-1A-52 (hex) Meshlinx Wireless Inc.
001A52 (base 16) Meshlinx Wireless Inc.
1410 G Avenue, Suite T
Plano
Texas 75074
US

00-1A-58 (hex) CCV Deutschland GmbH - Celectronic eHealth Div.
001A58 (base 16) CCV Deutschland GmbH - Celectronic eHealth Div.
Gertraudenstrasse 18
Berlin D-10178
DE

00-1A-5E (hex) Thincom Technology Co.,Ltd
001A5E (base 16) Thincom Technology Co.,Ltd
17F-3, No.398, Huanbei Rd.,
Zhongli City Taoyuan Contry 320
TW

00-1A-88 (hex) Venergy,Co,Ltd

001A88 (base 16) Venergy,Co,Ltd
West 6th Floor,M-8 Building Maqueling Zone,
shenzhen guangdong 518000
CN

00-1A-74 (hex) Procare International Co
001A74 (base 16) Procare International Co
5F, No.88, Jhouzih Street, Neihu District
Taipei 114
TW

00-1A-24 (hex) Galaxy Telecom Technologies Ltd
001A24 (base 16) Galaxy Telecom Technologies Ltd
No.25, The 1st Gaoxin Road
Xi'an City Shannxi 710075
CN

00-1A-43 (hex) Logical Link Communications
001A43 (base 16) Logical Link Communications
1909 Central
Drive Suite 205
Bedford TX 76021
US

00-1A-47 (hex) Agami Systems, Inc.
001A47 (base 16) Agami Systems, Inc.
1269 Innsbruck Drive
Sunnyvale California 94089
US

00-1A-2D (hex) The Navvo Group
001A2D (base 16) The Navvo Group
4400 Baker Road
Minnetonka MN 55343
US

00-1A-2F (hex) Cisco Systems, Inc
001A2F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-19-9E (hex) Nifty
00199E (base 16) Nifty
miwa4-2-22-105
Nagano 3800803
JP

00-19-8D (hex) Ocean Optics, Inc.
00198D (base 16) Ocean Optics, Inc.
830 Douglas Ave
Dunedin FL 34698
US

00-19-85 (hex) IT Watchdogs, Inc
001985 (base 16) IT Watchdogs, Inc
12885 Research, Suite 210B
Austin TX 78750
US

00-19-86 (hex) Cheng Hongjian
001986 (base 16) Cheng Hongjian
Rm.2305B.Sege Plaza,Huaqiang North Rd.,
Shenzhen Guangdong 518057
US

00-19-E5 (hex) Lynx Studio
Technology, Inc.
0019E5 (base 16) Lynx Studio Technology, Inc.
1540 Barton Rd # 268
Redlands CA 92373
US

00-19-DB (hex) MICRO-STAR INTERNATIONAL CO., LTD.
0019DB (base 16) MICRO-STAR INTERNATIONAL CO., LTD.
NO. 69, LI-DE ST.
JUNG-HE CITY TAIPEI HSIEN 235
TW

00-19-CE (hex) Progressive Gaming International
0019CE (base 16) Progressive Gaming International
920 Pilot Road
Las Vegas NV 89119
US

00-19-BD (hex) New Media Life
0019BD (base 16) New Media Life
Hea Ju Bild, 5F, 837-7, Yeoksam-dong
Kangnam-gu Seoul 135-080
KR

00-19-A9 (hex) Cisco Systems, Inc
0019A9 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-19-AE (hex) Hopling Technologies b.v.
0019AE (base 16) Hopling Technologies b.v.
Camerastraat 10
Almere Flevoland 1322 BC
NL

00-19-F2 (hex) Teradyne K.K.
0019F2 (base 16) Teradyne K.K.
272-13, Heisei, Takaono
Kikuchi-gun
Kumamoto 869-1232
JP

00-19-DE (hex) MOBITEK
0019DE (base 16) MOBITEK
5F,No.60,Lane 321,Yang-Kwang Street
Taipei 114
US

00-19-AF (hex) Rigol Technologies, Inc.
0019AF (base 16) Rigol Technologies, Inc.
No. 156 Cai He Village, Sha He Town
Beijing 102206
CN

00-19-A7 (hex) ITU-T
0019A7 (base 16) ITU-T
Place des Nations
Geneva 20 CH-1211
CH

00-1A-03 (hex) Angel Electronics Co., Ltd.
001A03 (base 16) Angel Electronics Co., Ltd.
17, Lane 134, Shou Shan Road, Tai Shan,
Taipei 243
TW

00-19-F9 (hex) TDK-Lambda
0019F9 (base 16) TDK-Lambda
405 Essex Road
Neptune NJ 07753
US

00-1A-0F (hex) ARTECHE GROUP
001A0F (base 16) ARTECHE GROUP
Derio Bidea 28, Zabalondo Industrialdea
Mungia Bizkaia 48100

ES

00-19-9F (hex) DKT A/S
00199F (base 16) DKT A/S
Fanoevej 6
Kr. Saaby DK-4060
DK

00-18-FF (hex) PowerQuattro Co.
0018FF
(base 16) PowerQuattro Co.
János u. 175.
Budapest H-1161
HU

00-18-F4 (hex) EO TECHNICS Co., Ltd.
0018F4 (base 16) EO TECHNICS Co., Ltd.
91, Dongpyeon-ro
Anyang Kyeonggi-Do 431-803
KR

00-18-F6 (hex) Thomson Telecom Belgium
0018F6 (base 16) Thomson Telecom Belgium
Prins Boudewijnlaan 47
Edegem Antwerp B-2650
BE

00-18-FC (hex) Altec Electronic AG
0018FC (base 16) Altec Electronic AG
Lenggenbachstrasse 3
Fahrweid Zürich CH-8951
CH

00-18-F5 (hex) Shenzhen Streaming Video Technology Company Limited
0018F5 (base 16) Shenzhen Streaming Video Technology Company Limited
5/F, Block 3, Software Part No.1, Keji Middle 2 Road,
Shenzhen GaungDong 518057
CN

00-18-F9 (hex) VVOND, Inc.
0018F9 (base 16) VVOND, Inc.
3000 Bridge Parkway
Redwood City CA 94065
US

00-18-FA (hex) Yushin Precision Equipment Co.,Ltd.
0018FA (base 16) Yushin Precision Equipment Co.,Ltd.
11-260

KOGAHONMACHI
KYOTO 612-8492 JAP
JP

00-19-35 (hex) DUERR DENTAL AG
001935 (base 16) DUERR DENTAL AG
Hoepfigheimer Strasse 17
Bietigheim-Bissingen Baden-Wuerttemberg 74321
DE

00-19-32 (hex) Gude Systems GmbH
001932 (base 16) Gude Systems GmbH
Von-der-Wettern-Str. 23
Cologne NRW 51149
DE

00-19-31 (hex) Balluff GmbH
001931 (base 16) Balluff GmbH
Schurwaldstraße 9
Neuhausen BW 73765
DE

00-19-3D (hex) GMC Guardian Mobility Corp.
00193D (base 16) GMC Guardian Mobility Corp.
Suite 200
Ottawa ON K2E 7Y8
CA

00-19-3B (hex) LigoWave
00193B (base 16) LigoWave
138 Mountain Brook Drive
Canton GA 30115
US

00-19-14 (hex) Winix Co., Ltd
001914 (base 16) Winix Co., Ltd
363 Angade Bldg., Yangjae-dong
Seoul 137-898
KR

00-19-01 (hex) F1MEDIA
001901 (base 16) F1MEDIA
610, Keumkang Hightech ¥±, 138-1 Sangdaewon-Dong, Jungwon-Gu
Seongnam-Si
Gyeonggi-Do 462-707
KR

00-19-06 (hex) Cisco Systems, Inc

001906 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-19-10 (hex) Knick Elektronische Messgeraete GmbH & Co. KG
001910 (base 16) Knick Elektronische Messgeraete GmbH & Co. KG
Beuckestraße 22
Berlin 14163
DE

00-19-13 (hex) Chuang-Yi Network Equipment Co.Ltd.
001913 (base 16) Chuang-Yi Network Equipment Co.Ltd.
238 TianMuShan Rd., West Lake district
HangZhou ZheJiang 310000
CN

00-19-51 (hex) NETCONS, s.r.o.
001951 (base 16) NETCONS, s.r.o.
Stara Vajnorska 37
Bratislava Slovakia 831 04
SK

00-19-57 (hex) Saafnet Canada Inc.
001957 (base 16) Saafnet Canada Inc.
107-1089 East Kent Ave (N)
Vancouver BC V5X 4V9
CA

00-19-6B (hex) Danpex Corporation
00196B (base 16) Danpex Corporation
2114 Ringwood Avenue
San Jose California 95131
US

00-19-6A (hex) MikroM GmbH
00196A
(base 16) MikroM GmbH
Dovestraße 1
Berlin 10587
DE

00-19-56 (hex) Cisco Systems, Inc
001956 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-19-58 (hex) Bluetooth SIG, Inc.
001958 (base 16) Bluetooth SIG, Inc.
5209 Lake Washington Blvd NE
Kirkland WA 98033
US

00-18-99 (hex) ShenZhen jieshun Science&Technology Industry CO,LTD.
001899 (base 16) ShenZhen jieshun Science&Technology Industry CO,LTD.
China GuangDong state Shenzhen City Futian section NO17. Meilin Road
Shenzhen GuangDong 518049
CN

00-18-9F (hex) Lenntek Corporation
00189F (base 16) Lenntek Corporation
4F, 125 GuangMing 3rd. Road
Jhu Bei Hsin Chu 302
TW

00-18-95 (hex) Hansun Technologies Inc.
001895 (base 16) Hansun Technologies Inc.
Room 301, Building 103, Wangjingkejiyuan, Chaoyang District
Beijing 100102
CN

00-18-B7 (hex) D3 LED, LLC
0018B7 (base 16) D3
LED, LLC
380 Mountain Rd
Union City NJ 07087
US

00-18-C1 (hex) Almitec Informática e Comércio
0018C1 (base 16) Almitec Informática e Comércio
461, Francisco de Morais St.
São Paulo 04714-010
BR

00-18-C4 (hex) Raba Technologies LLC
0018C4 (base 16) Raba Technologies LLC
8830 Stanford Blvd Suite 205
Columbia Maryland 21045
US

00-18-C9 (hex) EOps Technology Limited
0018C9 (base 16) EOps Technology Limited
Room 2001, Fairmont House,
Hong Kong
HK

00-18-BC (hex) ZAO NVP Bolid
0018BC (base 16) ZAO NVP Bolid
Pionerskaya str., 4
Korolyov Moscow region 141070
RU

00-18-6D (hex) Zhenjiang Sapphire Electronic Industry CO.
00186D (base 16) Zhenjiang Sapphire Electronic Industry CO.
Wei San Road,Dingmao Develop Area
zhenjiang jiangsu 212009
CN

00-18-6F (hex) Setha Industria Eletronica LTDA
00186F (base 16) Setha Industria Eletronica LTDA
Rua Alvaro de Macedo
134
Rio de Janeiro RJ 21.250-620
BR

00-18-75 (hex) AnaCise Testnology Pte Ltd
001875 (base 16) AnaCise Testnology Pte Ltd
3 Bishan Place #02-06
579838
SG

00-18-D8 (hex) ARCH METER Corporation
0018D8 (base 16) ARCH METER Corporation
4F, No.3-2, Industry E. Rd.
Hsinchu
TW

00-18-D9 (hex) Santosha Internatonal, Inc
0018D9 (base 16) Santosha Internatonal, Inc
3843 S. Bristol St. #242
Santa Ana CA 92704
US

00-18-CF (hex) Baldor Electric Company
0018CF (base 16) Baldor Electric Company
600 S. Zero St.
Fort Smith AR 72901
US

00-18-8E (hex) Ekahau, Inc.
00188E (base 16) Ekahau, Inc.
Hiilikatu 3
HELSINKI UUSIMAA 00180

FI

00-18-83 (hex) FORMOSA21 INC.
001883 (base 16) FORMOSA21 INC.
8F-6, NO.351, CHUNG SHAN RD., SEC.2
TAIPEI 235
TW

00-18-E3 (hex) Visualgate Systems, Inc.
0018E3 (base 16) Visualgate Systems, Inc.
64 Bakersfield Street
Toronto
Ontario M3J 2W7
CA

00-18-EA (hex) Alltec GmbH
0018EA (base 16) Alltec GmbH
An der Trave 27-31
Selmsdorf Mecklenburg-Vorpommern 23923
DE

00-18-E8 (hex) Hacetron Corporation
0018E8 (base 16) Hacetron Corporation
No. 542,
Yang-Mei, Tao-Yuan, 326
TW

00-17-DE (hex) Advantage Six Ltd
0017DE (base 16) Advantage Six Ltd
208 George St
OLDHAM Lancs OL2 8DR
GB

00-17-D7 (hex) ION Geophysical Corporation Inc.
0017D7 (base 16) ION Geophysical Corporation Inc.
850 Dorothy
Richardson Texas 75081
US

00-17-E1 (hex) DACOS Technologies Co., Ltd.
0017E1 (base 16) DACOS Technologies Co., Ltd.
104 Daeryung-Technotown III 448
SEOUL Keumcheon-Gu 153-772
KR

00-18-14 (hex) Mitutoyo Corporation
001814 (base 16) Mitutoyo Corporation
20-1, Sakado 1-chome, Takatsu-ku,

Kawasaki-shi 213-8533
JP

00-18-17 (hex) D. E. Shaw Research, LLC
001817 (base 16) D.
E. Shaw Research, LLC
120 W. 45th St., 33rd Floor
New York NY 10036
US

00-18-11 (hex) Neuros Technology International, LLC.
001811 (base 16) Neuros Technology International, LLC.
650 W Lake St
Chicago IL 60661
US

00-18-0E (hex) Avega Systems
00180E (base 16) Avega Systems
59 Victoria Street
McMahons Point NSW 2060
AU

00-17-E0 (hex) Cisco Systems, Inc
0017E0 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-17-D2 (hex) THINLINX PTY LTD
0017D2 (base 16) THINLINX PTY LTD
31 Carwoola Crescent
Mooloolaba Queensland 4557
AU

00-17-C7 (hex) MARA Systems Consulting AB
0017C7 (base 16) MARA Systems Consulting AB
Instrumentvägen 45
Stockholm 126 53
SE

00-18-5D (hex) TAIGUEN TECHNOLOGY (SHEN-ZHEN) CO., LTD.
00185D (base 16) TAIGUEN TECHNOLOGY (SHEN-ZHEN) CO., LTD.
No. 23, The Third Industrial Park of Xia Village,
Shenzhen City,
Guangdong, 815106
CN

00-18-5E (hex) Nexterm Inc.

00185E (base 16) Nexterm Inc.
1-12-3, Shibaura, Minato-ku,
Tokyo 105-0023
JP

00-18-28 (hex) e2v technologies (UK) ltd.
001828 (base 16) e2v technologies (UK) ltd.
106 Waterhouse Lane
Chelmsford Essex CM1 2QU
GB

00-18-35 (hex) Thoratec / ITC
001835 (base 16) Thoratec / ITC
2656 Patton Road
Roseville MN 55113
US

00-18-37 (hex) Universal ABIT Co., Ltd.
001837 (base 16) Universal ABIT Co., Ltd.
7F, No. 323 Yangguang St.,
Neihu Taipei 114
TW

00-18-01 (hex) Actiontec Electronics, Inc
001801 (base 16) Actiontec Electronics, Inc
3301 Olcott St.
Santa Clara CA 95054
US

00-17-F3 (hex) Harris Corporation
0017F3 (base 16) Harris Corporation
1025 West NASA Blvd
Melbourne FL 32919
US

00-18-22 (hex) CEC TELECOM CO.,LTD.
001822 (base 16) CEC TELECOM CO.,LTD.
10thFL.CEC Building,6 Zhongguancun South
Street
Beijing 100086
CN

00-18-20 (hex) w5networks
001820 (base 16) w5networks
48389 Fremont Blvd
Fremont CA 94538
US

00-18-4B (hex) Las Vegas Gaming, Inc.
00184B (base 16) Las Vegas Gaming, Inc.
4000 West Ali Baba Lane, Suite D
Las Vegas Nevada 89118
US

00-18-4A (hex) Catcher, Inc.
00184A (base 16) Catcher, Inc.
5864 Owens Ave.
Carlsbad CA 92008
US

00-17-50 (hex) GSI Group, MicroE Systems
001750 (base 16) GSI Group, MicroE Systems
8 Erie Drive
Natick MA 01760
US

00-17-55 (hex) GE Security
001755 (base 16) GE Security
12345 SW Leveton Drive
Tualatin OR 97062
US

00-17-51 (hex) Online Corporation
001751 (base 16) Online Corporation
22F-3, No. 398, Huan Pei Road,
Chung Li Taoyuan 320
TW

00-17-B8 (hex) NOVATRON CO., LTD.
0017B8 (base 16) NOVATRON CO., LTD.
#601 polaris bldg., 15-3 jeongja-dong, bundang-gu
Seong Nam Gyeonggi
Do 463-811
KR

00-17-BB (hex) Syrinx Industrial Electronics
0017BB (base 16) Syrinx Industrial Electronics
De Factorij 13
Zwaag Noord Holland 1689 AK
NL

00-17-BC (hex) Touchtunes Music Corporation
0017BC (base 16) Touchtunes Music Corporation
3 Place du Commerce
Montréal Québec H3E 1H7
CA

00-17-C1 (hex) CM Precision Technology LTD.
0017C1 (base 16) CM Precision Technology LTD.
2 Fl, No. 177, Chien-E Road, Chung-Ho City
Taipei Hsien 235
TW

00-17-A3 (hex) MIX s.r.l.
0017A3 (base 16) MIX s.r.l.
Via Caldera, 21
Milan I-20153
IT

00-17-A6 (hex) YOSIN ELECTRONICS CO., LTD.
0017A6 (base 16) YOSIN ELECTRONICS CO., LTD.
6F-2, No.17, Lan 174,Shin-Ming Road
Taipei 114
TW

00-17-9C (hex) DEPRAG SCHULZ GMBH u. CO.
00179C (base 16) DEPRAG SCHULZ GMBH u. CO.
Kurfürstenringg 12.18
Amberg Bayern 92224
DE

00-17-96 (hex) Rittmeyer AG
001796 (base 16) Rittmeyer
AG
Inwilerriedstrasse 57
Baar ZG CH-6341
CH

00-17-76 (hex) Meso Scale Diagnostics, LLC
001776 (base 16) Meso Scale Diagnostics, LLC
9238 Gaither Rd.
Gaithersburg MD 20877
US

00-17-79 (hex) QuickTel
001779 (base 16) QuickTel
Cornishe El-Nile, Maasara
Cairo 11743
EG

00-17-67 (hex) Earforce AS
001767 (base 16) Earforce AS
P.O.Box 4
Bryne 4349

NO

00-17-63 (hex) Essentia S.p.A.
001763 (base 16) Essentia S.p.A.
Via G.B. Vico, 29
Cella (RE) Reggio Emilia 42040
IT

00-17-81 (hex) Greystone Data System, Inc.
001781 (base 16) Greystone Data System, Inc.
40800 Encycopedia Circle
Fremont CA 94538
US

00-17-85 (hex) Sparr Electronics Ltd
001785 (base 16) Sparr Electronics Ltd
Sparr Electronics Ltd
Bangalore Karnataka 560054
IN

00-17-75 (hex) TTE Germany GmbH
001775 (base 16) TTE Germany GmbH
Hermann-Schwer-Straße 3
Villingen-Schwenningen
Baden-Württemberg 78048
DE

00-17-B2 (hex) SK Telesys
0017B2 (base 16) SK Telesys
4F, Kyungdong bldg, 4-4, Sunae-Dong, Pundang-Gu
Sungnam-City Kunggi-Do 463-825
KR

00-17-B1 (hex) ACIST Medical Systems, Inc.
0017B1 (base 16) ACIST Medical Systems, Inc.
7450 Flying Cloud Drive
Eden Prairie MN 55344
US

00-17-8D (hex) Checkpoint Systems, Inc.
00178D (base 16) Checkpoint Systems, Inc.
101 Wolf Drive
Thorofare NJ 08086
US

00-17-8E (hex) Gunnebo Cash Automation AB
00178E (base 16) Gunnebo Cash Automation AB
Fabriksgatan 10

Göteborg 402 27
SE

00-17-7C (hex) Smartlink Network Systems Limited
00177C (base 16) Smartlink Network Systems Limited
L-7, Verna Electronic city
Nagoa Goa 403 722
IN

00-17-4C (hex) Millipore
00174C (base 16) Millipore
1, rue Jacques Monod
Guyancourt 78280
FR

00-17-45 (hex) INNOTZ CO., Ltd
001745 (base 16) INNOTZ
CO., Ltd
14F, Prime Center 546-4 Guui-Dong Kwanggin-Gu
Seoul Seoul
KR

00-17-48 (hex) Neokoros Brasil Ltda
001748 (base 16) Neokoros Brasil Ltda
Rua 86, numero 501, Setor Sul
Goiania Goias 74083-330
BR

00-17-5D (hex) Dongseo system.
00175D (base 16) Dongseo system.
974-21 Mansu-dong Namdong-gu
Incheon In-Cheon 405-865
KR

00-17-1D (hex) DIGIT
00171D (base 16) DIGIT
Via Pasteur , 1/3
S.Pietro Mosezzo NOVARA 28060
IT

00-17-18 (hex) Vansco Electronics Oy
001718 (base 16) Vansco Electronics Oy
Tiilenlyojankatu 5
FORSSA 30101
FI

00-17-19 (hex) Audiocodes USA, Inc
001719 (base 16) Audiocodes USA, Inc

27 World's Fair Drive
Somerset NJ 08873
US

00-16-FF (hex) Wamin Optocomm Mfg Corp
0016FF (base 16) Wamin Optocomm Mfg Corp
No. 239 Qiaohe Road
Zhonghe City Taipei County 235
TW

00-17-01 (hex) KDE, Inc.
001701 (base 16) KDE, Inc.
KDE
TOWN, 42-7, Mangwol-dong
Hanam Gyeonggi-do 465-150
KR

00-17-0E (hex) Cisco Systems, Inc
00170E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-17-05 (hex) Methode Electronics
001705 (base 16) Methode Electronics
7401 W. Wilson
Chicago IL 60706
US

00-16-DE (hex) FAST Inc
0016DE (base 16) FAST Inc
905 Honeyspot Rd
Stratford CT 06615
US

00-16-DA (hex) Futronic Technology Co. Ltd.
0016DA (base 16) Futronic Technology Co. Ltd.
Room 1016A, 10/F., Profit Ind. Bldg.,
Kwai Chung 00000
HK

00-17-2C (hex) TAEJIN INFOTECH
00172C (base 16) TAEJIN INFOTECH
6F Woolim e-Biz Center, 170-5
Seoul 152-769
KR

00-16-EE (hex) Royaldigital Inc.

0016EE (base 16) Royaldigital Inc.
8F., No.308, Sec.1, Neihu Rd.
Taipei City 114
TW

00-17-11 (hex) Cytiva Sweden AB
001711 (base 16) Cytiva Sweden AB
Björkgatan 30
Uppsala
SE 75184
SE

00-17-17 (hex) Leica Geosystems AG
001717 (base 16) Leica Geosystems AG
Heinrich Wild Strasse
Heerbrugg St. Gallen CH-9435
CH

00-17-15 (hex) Qstik
001715 (base 16) Qstik
Cartel Business Estate
Harlow Essex CM20 2TT
GB

00-17-39 (hex) Bright Headphone Electronics Company
001739 (base 16) Bright Headphone Electronics Company
8F, 109, Li De Street
Chung Ho City Taipei County 235
TW

00-16-ED (hex) Utility, Inc
0016ED (base 16) Utility, Inc
250 E Ponce de Leon Ave Suite 700
Decatur GA 30030
US

00-16-71 (hex) Symphox Information Co.
001671 (base 16) Symphox Information Co.
15F, No. 51, Sec. 3, Minsheng E. Road
Taipei City 104
TW

00-16-69 (hex) MRV Communication (Networks) LTD
001669 (base 16) MRV Communication (Networks) LTD
P.O Box 614
Yokneam 20692
US

00-16-68 (hex) Eishin Electronics
001668 (base 16) Eishin Electronics
Nishiku
Miyashita 1-19
Kobe City Hyogo Prefecture 651-2146
JP

00-16-7D (hex) Sky-Line Information Co., Ltd.
00167D (base 16) Sky-Line Information Co., Ltd.
8F.,No.38,Sihyuan Rd.,
Sinihuang Taipei 242
TW

00-16-77 (hex) Bihl + Wiedemann GmbH
001677 (base 16) Bihl + Wiedemann GmbH
Flosswoerthstr 41
Mannheim 68199
DE

00-16-72 (hex) Zenway enterprise ltd
001672 (base 16) Zenway enterprise ltd
6F., No.20, Lane 150, Jhongsing Rd., Sijhih City
Taipei 886
TW

00-16-D4 (hex) Compal Communications, Inc.
0016D4 (base 16) Compal Communications, Inc.
7th, FL, No. 319, Sec. 4, Pa-Teh rd.
Taipei 886
TW

00-16-D7 (hex) Sunways AG
0016D7 (base 16) Sunways AG
Macairestraße 3-5
Konstanz Baden-Württemberg 78467
DE

00-16-D1 (hex) ZAT a.s.
0016D1 (base 16) ZAT a.s.
K Podlesi 541
Pribram VI 26180
CZ

00-16-C5 (hex) Shenzhen Xing Feng Industry Co.,Ltd
0016C5
(base 16) Shenzhen Xing Feng Industry Co.,Ltd
Floor 1 - 4, Block 25, Hongtian Jinyuan Industrial,
Shenzhen GuangDong 86

CN

00-16-AA (hex) Kei Communication Technology Inc.
0016AA (base 16) Kei Communication Technology Inc.
8-BAN CHUOU
KOBE HYOGO 650-0024
JP

00-16-A8 (hex) CWT CO., LTD.
0016A8 (base 16) CWT CO., LTD.
10F No. 74 Sec. 1 Chung-Hua Rd.
Taipei 108
TW

00-16-A6 (hex) Dovado FZ-LLC
0016A6 (base 16) Dovado FZ-LLC
Al-Thuraya Tower 1, office 504
Dubai
AE

00-16-A2 (hex) CentraLite Systems, Inc.
0016A2 (base 16) CentraLite Systems, Inc.
6420 Wall Street
Mobile AL 36695
US

00-16-CC (hex) Xcute Mobile Corp.
0016CC (base 16) Xcute Mobile Corp.
3F. No.25, Ally15, Lane 120, Sec.1, Neihu Rd.
Taipei 114
TW

00-16-C7 (hex) Cisco Systems, Inc
0016C7 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-16-5A (hex) Harman
Specialty Group
00165A (base 16) Harman Specialty Group
3 Oak Park Drive
Bedford MA 01730
US

00-16-59 (hex) Z.M.P. RADWAG
001659 (base 16) Z.M.P. RADWAG
Bracka 28 street

RADOM Mazowieckie 26-600
PL

00-16-55 (hex) FUHO TECHNOLOGY Co., LTD
001655 (base 16) FUHO TECHNOLOGY Co., LTD
No. 30, Lane 726, Jinma Rd, Sec. 3
Chang Hua 500
TW

00-16-95 (hex) AVC Technology (International) Limited
001695 (base 16) AVC Technology (International) Limited
6/F Enterprise Square III
Kowloon Bay
HK

00-15-D8 (hex) Interlink Electronics
0015D8 (base 16) Interlink Electronics
546 Flynn Road
Camarillo CA 93012
US

00-15-D2 (hex) Xantech Corporation
0015D2 (base 16) Xantech Corporation
5919 Sea Otter Place
Carlsbad CA 92010
US

00-15-D4 (hex) Emitor AB
0015D4 (base 16) Emitor AB
Sjöviksbacken 14
Stockholm 117 43
SE

00-15-D6 (hex) OSLiNK Sp. z
o.o.
0015D6 (base 16) OSLiNK Sp. z o.o.
ul. Marsa 27
Gdansk 80299
PL

00-15-D5 (hex) NICEVT
0015D5 (base 16) NICEVT
Warshawskoe shosse 125
Moscow 117405
RU

00-16-1D (hex) Innovative Wireless Technologies, Inc.
00161D (base 16) Innovative Wireless Technologies, Inc.

1047 Vista Park Dr.
Forest VA 24551
US

00-16-11 (hex) Altecon Srl
001611 (base 16) Altecon Srl
Via F.lli Cairoli, 17
Lissone Milano 20035
IT

00-16-0C (hex) LPL DEVELOPMENT S.A. DE C.V
00160C (base 16) LPL DEVELOPMENT S.A. DE C.V
LAGO GINEBRA 380 P3
D.F. 11480
MX

00-16-12 (hex) Otsuka Electronics Co., Ltd.
001612 (base 16) Otsuka Electronics Co., Ltd.
1-10 Sasagaoka, Minakuchi
kouka shiga 528-0061
JP

00-16-0B (hex) TVWorks LLC
00160B (base 16) TVWorks LLC
Two Belvedere Place, #200
Mill Valley CA 94941
US

00-16-40 (hex) Asmobile Communication Inc.
001640 (base
16) Asmobile Communication Inc.
No.11 Lane 120, Li-Te Rd., Peitou 112, Taipei, Taiwan, R.O.C
Taipei 112
TW

00-16-3C (hex) Rebox B.V.
00163C (base 16) Rebox B.V.
Hendrik Figeeweg 1X
Haarlem Noord-Holland 2031 BJ
NL

00-15-EA (hex) Tellumat (Pty) Ltd
0015EA (base 16) Tellumat (Pty) Ltd
64/74 White Road
Cape Town Western Province 7945
ZA

00-15-E2 (hex) Dr.Ing. Herbert Knauer GmbH

0015E2 (base 16) Dr.Ing. Herbert Knauer GmbH
Hegauer Weg 38
Berlin 14163
DE

00-15-E1 (hex) Picochip Ltd
0015E1 (base 16) Picochip Ltd
Upper Borough Court
Bath BA1 1RG
GB

00-15-DF (hex) Clivet S.p.A.
0015DF (base 16) Clivet S.p.A.
via Camp Lonc 25
Feltre Belluno 32030
IT

00-15-F5 (hex) Sustainable Energy Systems
0015F5 (base 16) Sustainable Energy Systems
#500, 609 14th Street NW
Calgary Ab T2T 1P3
CA

00-15-F1 (hex) KYLINK Communications Corp.
0015F1 (base
16) KYLINK Communications Corp.
8F-8, No. 351, Sec. 2, Zhongshan Rd., Zhonghe City
23504
TW

00-16-46 (hex) Cisco Systems, Inc
001646 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-16-48 (hex) SSD Company Limited
001648 (base 16) SSD Company Limited
3-3-4 Higashiyagura
Kusatsu-city Shiga 525-0054
JP

00-16-25 (hex) Impinj, Inc.
001625 (base 16) Impinj, Inc.
400 Fairview Ave N, Suite 1200
Seattle WA 98109
US

00-16-23 (hex) Interval Media
001623 (base 16) Interval Media
3200 Ash Street
Palo Alto CA 94306
US

00-16-19 (hex) Lancelan Technologies S.L.
001619 (base 16) Lancelan Technologies S.L.
C/Angel Guimera 208 bis
Terrassa Barcelona 08223
ES

00-16-03 (hex) COOLKSKY Co., LTD
001603 (base 16) COOLKSKY Co., LTD
Shingsung offcetel A511, 1588-1 Secho
Seoul 137-070
KR

00-16-09 (hex) Unitech electronics co.,
ltd.
001609 (base 16) Unitech electronics co., ltd.
5F,No.136,Lane 235 ,Pao-chiao Rd.,
Hsin-Tien city Taipei Hsien 231
TW

00-15-C7 (hex) Cisco Systems, Inc
0015C7 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-15-86 (hex) Xiamen Overseas Chinese Electronic Co., Ltd.
001586 (base 16) Xiamen Overseas Chinese Electronic Co., Ltd.
No. 22, Huli Street,
Xiamen Fujian 361006
CN

00-15-7E (hex) Weidmüller Interface GmbH & Co. KG
00157E (base 16) Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
Detmold 32758
DE

00-15-80 (hex) U-WAY CORPORATION
001580 (base 16) U-WAY CORPORATION
3F-2, NO. 125, LANE 235, PAO-CHIAO
HSINTIEN CITY TAIPEI HSIEN 231
TW

00-15-7C (hex) Dave Networks, Inc.
00157C (base 16) Dave Networks, Inc.
2151 O'tool Avenue
San Jose CA 95131
US

00-15-7F (hex) ChuanG International Holding CO.,LTD.
00157F (base 16) ChuanG
International Holding CO.,LTD.
1F, NO.12, Alley 1, Lane 125, Guolian Street 4Lirn, Wuhan Village
Taoyuan Longtan 325
US

00-15-9D (hex) Tripp Lite
00159D (base 16) Tripp Lite
1111 W 35th Street
Chicago IL 60609
US

00-15-92 (hex) Facom UK Ltd (Melksham)
001592 (base 16) Facom UK Ltd (Melksham)
Lancaster House
Melksham Wiltshire SN104FB
US

00-15-8B (hex) Park Air Systems Ltd
00158B (base 16) Park Air Systems Ltd
Northfields
Peterborough PE6 8UE
GB

00-15-5C (hex) Dresser Wayne
00155C (base 16) Dresser Wayne
3814 Jarrett Way
Austin Texas 78728
US

00-15-59 (hex) Securaplane Technologies, Inc.
001559 (base 16) Securaplane Technologies, Inc.
10800 N. Mavinee Dr.
Tucson AZ 85737
US

00-15-57 (hex) Olivetti
001557 (base 16) Olivetti
Via Jervis 77
Ivrea Torino 10015

IT

00-15-54 (hex) Atalum Wireless S.A.
001554 (base 16) Atalum
Wireless S.A.
C/ Orellana 5, 1º I
Madrid 28004
ES

00-15-3F (hex) Alcatel Alenia Space Italia
00153F (base 16) Alcatel Alenia Space Italia
Strada Padana Superiore 290
Vimodrone MI 20090
IT

00-15-3B (hex) EMH metering GmbH & Co. KG
00153B (base 16) EMH metering GmbH & Co. KG
Neu- Galliner Weg 1
Mecklenburg-Vorpommern
DE

00-15-33 (hex) NADAM.CO.,LTD
001533 (base 16) NADAM.CO.,LTD
#91-3 Wangrim-Li
Hwaseong Gyeonggi 445-895
KR

00-15-37 (hex) Ventus Networks
001537 (base 16) Ventus Networks
800 Connecticut Ave
Norwalk CT 06854
US

00-15-BE (hex) Iqua Ltd.
0015BE (base 16) Iqua Ltd.
Hyvoninkatu 1
Salo Varsinais-Suomi 24240
US

00-15-B3 (hex) Caretech AB
0015B3 (base 16) Caretech AB
Nyborgsvägen 197
Kalix 95291
SE

00-15-AA (hex) Rextechnik International Co.,
0015AA (base 16) Rextechnik International Co.,
Room 5-3, No.51, Section

2, Keelung Road
Taipei 110
TW

00-15-76 (hex) LABiTec - Labor Biomedical Technologies GmbH
001576 (base 16) LABiTec - Labor Biomedical Technologies GmbH
An der Strusbek 6

DE

00-15-5E (hex) Morgan Stanley
00155E (base 16) Morgan Stanley
750 7th Avenue
New York NY 10019
US

00-15-0F (hex) mingjong
00150F (base 16) mingjong
8F,NO.1,LANE 16,SZE CHUAN ROAD,SEC.2,PANCHIAO CITY.
TAIPEI 220
TW

00-15-0B (hex) SAGE INFOTECH LTD.
00150B (base 16) SAGE INFOTECH LTD.
3F, No30, INDUSTRY E. 9TH RD.,SCIENCE-BASED
HSIN-CHU TAIWAN 300
TW

00-15-07 (hex) Renaissance Learning Inc
001507 (base 16) Renaissance Learning Inc
2911 Peach Street
Wisconsin Rapids Wisconsin 54494
US

00-15-08 (hex) Global Target Enterprise Inc
001508 (base 16) Global Target Enterprise Inc
5F, No. 186, Sec. 2, Chung-Hsing Rd.,
Hsin Tien, Taipei county 231
TW

00-15-02 (hex) BETA
tech
001502 (base 16) BETA tech
15 rue d'apollo
L'UNION 31240
FR

00-14-FD (hex) Thecus Technology Corp.

0014FD (base 16) Thecus Technology Corp.
15F.,No. 79,Sec. 1,Sintai 5th RD.,
Sijhih City Taipei County 221
TW

00-14-F1 (hex) Cisco Systems, Inc
0014F1 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-14-EA (hex) S Digm Inc. (Safe Paradigm Inc.)
0014EA (base 16) S Digm Inc. (Safe Paradigm Inc.)
5F, Shin-an Bldg. 89-8,
Songpa-Gu Seoul 138-201
KR

00-14-E5 (hex) Alticast
0014E5 (base 16) Alticast
16th floor, Nara Bldg, 1328-3
Seoul 137-070
KR

00-14-FC (hex) Extandon, Inc.
0014FC (base 16) Extandon, Inc.
39350 Civic Center Drive Ste. 160
Fremont CA 94538
US

00-14-F8 (hex) Scientific Atlanta
0014F8 (base 16) Scientific Atlanta
5030 Sugarloaf Parkway
Lawrenceville Ga 30042
US

00-14-F7 (hex) CREVIS Co., LTD
0014F7
(base 16) CREVIS Co., LTD
157-1, Hagal-Dong
Youngin Kyungki 446930
KR

00-15-15 (hex) Leipold+Co.GmbH
001515 (base 16) Leipold+Co.GmbH
Kreuzwiese 12
Rockenhausen RLP D-67806
DE

00-14-E0 (hex) LET'S Corporation
0014E0 (base 16) LET'S Corporation
Bancho Bldg. 4F, 2-18-20 Marunouchi, Naka
Nagoya Aichi 460-0002
JP

00-14-E2 (hex) datacom systems inc.
0014E2 (base 16) datacom systems inc.
9 adler drive
east syracuse n.y. 13057
US

00-14-E4 (hex) infinias, LLC
0014E4 (base 16) infinias, LLC
857 West Carmel Drive
Carmel IN 46032
US

00-14-DB (hex) Elma Trenew Electronic GmbH
0014DB (base 16) Elma Trenew Electronic GmbH
Stuttgarter Straße 11
Pforzheim 75179
DE

00-15-26 (hex) Remote Technologies Inc
001526 (base 16) Remote Technologies Inc
5775 12th Ave E, Suite 180
Shakopee MN 55379
US

00-15-18 (hex) Shenzhen 10MOONS Technology Development CO.,Ltd
001518 (base 16) Shenzhen 10MOONS Technology Development CO.,Ltd
Add:3F,Huaxing building, QiaoXiang road,
shenzhen guangdong 518053
CN

00-15-34 (hex) A Beltrónica-Companhia de Comunicações, Lda
001534 (base 16) A Beltrónica-Companhia de Comunicações, Lda
Rua Dr. José Baptista de Sousa, 27
Lisbon 1549-002 Lis
PT

00-14-CC (hex) Zetec, Inc.
0014CC (base 16) Zetec, Inc.
8226 Bracken Place SE
Snoqualmie WA 98065
US

00-14-CB (hex) LifeSync Corporation
0014CB (base 16) LifeSync Corporation
1 E Broward Boulevard, Suite 1701
Fort Lauderdale Florida 33301
US

00-14-C6 (hex) Quixant Ltd
0014C6 (base 16) Quixant Ltd
61A Mount Pleasant
England Kent TN16 3TP
GB

00-14-6F (hex) Kohler Co
00146F (base 16) Kohler Co
444 Highland Drive
Kohler WI 53044
US

00-14-66 (hex) Kleinhenz Elektronik GmbH
001466 (base 16) Kleinhenz Elektronik GmbH
Greinerberg
14
Munich 81371
DE

00-14-6B (hex) Anagran, Inc.
00146B (base 16) Anagran, Inc.
580 North Pastoria Av
Sunnyvale CA 94085
US

00-14-61 (hex) CORONA CORPORATION
001461 (base 16) CORONA CORPORATION
7-7, HIGASHI-SHINBO
SANJO-SHI NIIGATA 955-8510
JP

00-14-62 (hex) Digiwell Technology, inc
001462 (base 16) Digiwell Technology, inc
4F, No.1, Prosperity 1st Road
Hsinchu Science Park 300
TW

00-14-63 (hex) IDCS N.V.
001463 (base 16) IDCS N.V.
Hellebeemden 9
Hasselt Limburg 3500

BE

00-14-3D (hex) Aevoe Inc.
00143D (base 16) Aevoe Inc.
11F, No 23, Keelung Road
Taipei HsinYi District 110
TW

00-14-3A (hex) RAYTALK INTERNATIONAL SRL
00143A (base 16) RAYTALK INTERNATIONAL SRL
St. Marecchia 79
Verucchio (RN) 47826
IT

00-14-98 (hex) Viking Design Technology
001498 (base 16) Viking Design Technology
2F, No.2, Lane 42,
Taipei 111
TW

00-14-96
(hex) Phonic Corp.
001496 (base 16) Phonic Corp.
12thFl, 59 Tung Hsing Rd
Taipei 110
TW

00-14-93 (hex) Systimax Solutions
001493 (base 16) Systimax Solutions
1300 E Lookout Drive
Richardson Texas 75082
US

00-14-8D (hex) Cubic Defense Simulation Systems
00148D (base 16) Cubic Defense Simulation Systems
2001 W. Oakridge Road
Orlando FL 32809
US

00-14-7F (hex) Thomson Telecom Belgium
00147F (base 16) Thomson Telecom Belgium
Prins Boudewijnlaan 47
Edegem Antwerp B-2650
BE

00-14-75 (hex) Wiline Networks, Inc.
001475 (base 16) Wiline Networks, Inc.
741 Alexander Rd

Princeton NJ 08540
US

00-14-74 (hex) K40 Electronics
001474 (base 16) K40 Electronics
600 Tollgate Rd. Unit A
Elgin IL 60123
US

00-14-9F (hex) System and Chips, Inc.
00149F (base 16) System and Chips, Inc.
4F,No. 1, Lane 50, NanKang Road, Section 3,
Taipei 115
TW

00-14-B3
(hex) CoreStar International Corp
0014B3 (base 16) CoreStar International Corp
1044 Sandy Hill Rd
Irwin PA 15642
US

00-14-B1 (hex) Axell Wireless Limited
0014B1 (base 16) Axell Wireless Limited
Aerial HOuse
Chesham Buckinghamshire HP5 2QD
GB

00-14-86 (hex) Echo Digital Audio Corporation
001486 (base 16) Echo Digital Audio Corporation
402 E Carrillo St
Santa Barbara CA 93101
US

00-14-82 (hex) Aurora Networks
001482 (base 16) Aurora Networks
5400 Betsy Ross Drive
Santa Clara CA 95054
US

00-14-55 (hex) Coder Electronics Corporation
001455 (base 16) Coder Electronics Corporation
Takeda Bldg, 1-30-6 Shirasagi,
Nakano-ku Tokyo 165-0035
JP

00-14-4E (hex) SRISA
00144E (base 16) SRISA

36/1, Nakhimovskiy pr-t
Moscow 117218
RU

00-14-65 (hex) Novo Nordisk A/S
001465 (base 16) Novo Nordisk A/S
Novo Alle
Bagsvaerd 2880
DK

00-14-36
(hex) Qwerty Elektronik AB
001436 (base 16) Qwerty Elektronik AB
Gryt 44
Ösmo 610 60
SE

00-14-33 (hex) Empower Technologies(Canada) Inc.
001433 (base 16) Empower Technologies(Canada) Inc.
Unit 405 - 5600 Parkwood Way,
Richmond British Columbia V6V 2M2
CA

00-14-34 (hex) Keri Systems, Inc
001434 (base 16) Keri Systems, Inc
2305 Bering Dr
San Jose CA 95131
US

00-14-23 (hex) J-S Co. NEUROCOM
001423 (base 16) J-S Co. NEUROCOM
Energeticheskii proezd, 6
Moscow 111250
RU

00-14-25 (hex) Galactic Computing Corp.
001425 (base 16) Galactic Computing Corp.
1/F
Chai Wan District
HK

00-14-19 (hex) SIDSA
001419 (base 16) SIDSA
PTM - TORRES QUEVEDO 1
TRES CANTOS MADRID 28760
ES

00-14-15 (hex) Intec Automation inc.

001415 (base 16) Intec Automation inc.
2751 Arbutus Rd.
Victoria British Columbia V8N 5X7
CA

00-14-10 (hex) Suzhou Keda
Technology CO.,Ltd
001410 (base 16) Suzhou Keda Technology CO.,Ltd
131,Jinshan Road
Suzhou JiangSu 215011
CN

00-14-17 (hex) RSE Informations Technologie GmbH
001417 (base 16) RSE Informations Technologie GmbH
Silberbergstrasse 9
Wolfsberg Kärnten 9400
AT

00-14-08 (hex) Eka Systems Inc.
001408 (base 16) Eka Systems Inc.
20251 Century Blvd
Germantown MD 20874
US

00-13-DE (hex) Adapt4, LLC
0013DE (base 16) Adapt4, LLC
1050 W Nasa Blvd,
Melbourne FL 32901
US

00-13-DD (hex) Abbott Diagnostics
0013DD (base 16) Abbott Diagnostics
5440 Patrick Henry Drive
Santa Clara CA 95054
US

00-13-D7 (hex) SPIDCOM Technologies SA
0013D7 (base 16) SPIDCOM Technologies SA
137 avenue du General LECLERC
BOURG LA REINE 92340
FR

00-13-EE (hex) JBX Designs Inc.
0013EE (base 16) JBX Designs Inc.
PO Box 970158
Boca Raton FL 33497
US

00-13-E5 (hex) TENOSYS,
INC.
0013E5 (base 16) TENOSYS, INC.
Seojin B/D, 1564-1, Seocho-dong,
Seoul 137-070
KR

00-13-E2 (hex) GeoVision Inc.
0013E2 (base 16) GeoVision Inc.
9F.,No.246,Sec.1,
Taipei 114
TW

00-13-C7 (hex) IONOS Co.,Ltd.
0013C7 (base 16) IONOS Co.,Ltd.
1-36-18 Miyasaka
Setagaya-ku Tokyo 156-0051
JP

00-13-BC (hex) Artimi Ltd
0013BC (base 16) Artimi Ltd
Betjeman House
Cambridge Cambridgeshire CB2 1LQ
GB

00-13-B2 (hex) Carallon Limited
0013B2 (base 16) Carallon Limited
Studio G20 Shepherds Building
London W14 0DA
GB

00-14-02 (hex) kk-electronic a/s
001402 (base 16) kk-electronic a/s
Cypresvej 6
Herning 7400
DK

00-13-FF (hex) Dage-MTI of MC, Inc.
0013FF (base 16) Dage-MTI of MC, Inc.
701 N. Roeske Ave.
Michigan City IN 46360
US

00-13-96 (hex) Acbel Polytech Inc.
001396 (base 16) Acbel Polytech Inc.
No.159,Sec.3, Tam-King Rd.,
Tamsui

Taipei 251
TW

00-13-93 (hex) Panta Systems, Inc.
001393 (base 16) Panta Systems, Inc.
20450 Stevens Creek Blvd.
Cupertino California 95014
US

00-13-8B (hex) Phantom Technologies LLC
00138B (base 16) Phantom Technologies LLC
7825 Fay Avenue, Suite 200
La Jolla CA 92037
US

00-13-88 (hex) WiMedia Alliance
001388 (base 16) WiMedia Alliance
2400 Camino Ramon
San Ramon CA 94583
US

00-13-A6 (hex) Extricom Ltd
0013A6 (base 16) Extricom Ltd
Glil Yam
Herzlia 46905
IL

00-13-9F (hex) Electronics Design Services, Co., Ltd.
00139F (base 16) Electronics Design Services, Co., Ltd.
5-10-20 Tokumaru
Itabashi-ku Tokyo 175-0083
JP

00-13-A2 (hex) MaxStream, Inc
0013A2 (base 16) MaxStream, Inc
355 South 520 West Suite 180
Lindon Ut 84042
US

00-13-A0 (hex) ALGOSYSTEM Co., Ltd.
0013A0 (base 16) ALGOSYSTEM Co., Ltd.
656 kobirao mihara-cho
sakai
osaka 587-0021
JP

00-13-98 (hex) TrafficSim Co.,Ltd
001398 (base 16) TrafficSim Co.,Ltd

1-19-56 Taiko, Nakamura-ku
Nagoya Aichi prefecture 453-0801
JP

00-13-9B (hex) ioIMAGE Ltd.
00139B (base 16) ioIMAGE Ltd.
3 Maskit Street
Herzliya Pituach IL 46733
IL

00-13-6E (hex) Techmetro Corp.
00136E (base 16) Techmetro Corp.
4F. Dongam B/D., 264-5, YangJae-Dong
Seoul 137-130
KR

00-13-6D (hex) Tentaculus AB
00136D (base 16) Tentaculus AB
Studiegangen 3
Ostersund Jamtland SE - 831 40
SE

00-13-6A (hex) Hach Lange Sarl
00136A (base 16) Hach Lange Sarl
6, route de Compois
VESENAZ GENEVA 1222
CH

00-13-63 (hex) Verascape, Inc.
001363 (base 16) Verascape, Inc.
1101 31st St., Suite #190
Downers Grove IL 60515
US

00-13-4D (hex) Inepro BV
00134D (base 16) Inepro BV
Pondweg 7
Nieuw- Vennep
NL

00-13-4B (hex) ToGoldenNet Technology
Inc.
00134B (base 16) ToGoldenNet Technology Inc.
5F-1 No.25,Pu-ding.,
Hsin-Chu 300
TW

00-13-4A (hex) Engim, Inc.

00134A (base 16) Engim, Inc.
40 Nagog Park
Acton MA 01720
US

00-13-34 (hex) Arkados, Inc.
001334 (base 16) Arkados, Inc.
948 US HWY 22
North Plainfield NJ 07060
US

00-13-37 (hex) Orient Power Home Network Ltd.
001337 (base 16) Orient Power Home Network Ltd.
307 Harbour Centre, Tower 1,

HK

00-13-32 (hex) Beijing Topsec Network Security Technology Co., Ltd.
001332 (base 16) Beijing Topsec Network Security Technology Co., Ltd.
Huakong Tower
Haidian District Beijing 100085
CN

00-13-1F (hex) NxtPhase T&D, Corp.
00131F (base 16) NxtPhase T&D, Corp.
3040 E. Broadway
Vancouver BC V5M 1Z4
CA

00-13-AD (hex) Sendo Ltd
0013AD (base 16) Sendo Ltd
Hatchford Brook
Birmingham West Midlands B26 3RZ
GB

00-13-AA (hex) ALS & TEC
Ltd.
0013AA (base 16) ALS & TEC Ltd.
6 B. Kazachya str.
Saratov Saratov region 410600
RU

00-13-A4 (hex) KeyEye Communications
0013A4 (base 16) KeyEye Communications
9785 Goethe
Sacramento CA 95827
US

00-13-A7 (hex) BATTELLE MEMORIAL INSTITUTE
0013A7 (base 16) BATTELLE MEMORIAL INSTITUTE
505 KING AVE
COLUMBUS OHIO 43201
US

00-13-3A (hex) VadaTech Inc.
00133A (base 16) VadaTech Inc.
11540 S. Eastern Avenue
Henderson Nevada 89052
US

00-13-2A (hex) Sitronics Telecom Solutions
00132A (base 16) Sitronics Telecom Solutions
Michelska 60
Prague Prague 4 - Michle 140 00
CZ

00-13-84 (hex) Advanced Motion Controls
001384 (base 16) Advanced Motion Controls
3805 Calle Tecate
Camarillo California 93012
US

00-13-7B (hex) Movon Corporation
00137B (base 16) Movon Corporation
5th, Hyunjuk B/D
Seoul 135-092
KR

00-13-53 (hex) HYDAC Filtertechnik
GMBH
001353 (base 16) HYDAC Filtertechnik GMBH
Industriegebiet
Sulzbach/Saar Saarland 66280
DE

00-12-D7 (hex) Invento Networks, Inc.
0012D7 (base 16) Invento Networks, Inc.
377 Simarano Drive
Marlborough MA 01752
US

00-12-FF (hex) Lely Industries N.V.
0012FF (base 16) Lely Industries N.V.
Weverskade 110
Maassluis Zuid-Holland 3147PA
NL

00-13-03 (hex) GateConnect
001303 (base 16) GateConnect
Eisenhutweg 69
12487 Berlin 12487
DE

00-12-F9 (hex) URYU SEISAKU, LTD.
0012F9 (base 16) URYU SEISAKU, LTD.
1-2-11
HIGASHINARI-KU OSAKA 537-0002
JP

00-13-04 (hex) Flaircomm Technologies Co. LTD
001304 (base 16) Flaircomm Technologies Co. LTD
2088 Huashan Road
Shanghai 200030
CN

00-12-B8 (hex) G2 Microsystems
0012B8 (base 16) G2 Microsystems
408 Euclid Ave
Oakland CA 94610
US

00-12-B3 (hex) Advance Wireless Technology Corp.
0012B3 (base
16) Advance Wireless Technology Corp.
12F No. 27-6, Sec. 2, Chung Cheng East Road
Tamshui 251
TW

00-12-B0 (hex) Efore Oyj (Plc)
0012B0 (base 16) Efore Oyj (Plc)
Quartetto Business Park
Espoo FI - 02600
FI

00-13-09 (hex) Ocean Broadband Networks
001309 (base 16) Ocean Broadband Networks
2078 Walsh Ave, Suite B
Santa Clara California 95050
US

00-13-19 (hex) Cisco Systems, Inc
001319 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568

US

00-13-1C (hex) LiteTouch, Inc.
00131C (base 16) LiteTouch, Inc.
3400 South West Temple
Salt Lake City UT 84115
US

00-13-0E (hex) Focusrite Audio Engineering Limited
00130E (base 16) Focusrite Audio Engineering Limited
19 Lincoln Road
High Wycombe Bucks HP12 3FX
GB

00-12-C4 (hex) Viseon, Inc.
0012C4 (base 16) Viseon, Inc.
8445 Freeport Parkway
Irving Texas 75063
US

00-12-D0 (hex) Gossen-Metrawatt-GmbH
0012D0
(base 16) Gossen-Metrawatt-GmbH
Thomas-Mann-Straße 16-20
Nürnberg Bavaria 90471
DE

00-12-E5 (hex) Time America, Inc.
0012E5 (base 16) Time America, Inc.
51 W. 3rd Street #310
Tempe AZ 85281
US

00-12-DC (hex) SunCorp Industrial Limited
0012DC (base 16) SunCorp Industrial Limited
No.68 Guowei Road,
Liantang Industrial District, Shenzhen,
CN

00-12-69 (hex) Value Electronics
001269 (base 16) Value Electronics
Dong-kwan B/D, 5F, 1566-2
seoul 137-874
KR

00-12-64 (hex) daum electronic gmbh
001264 (base 16) daum electronic gmbh
flugplatzstraße 100

FÃƒÂ¼rth Bavaria 90768
DE

00-12-75 (hex) Sentilla Corporation
001275 (base 16) Sentilla Corporation
201 Marshall Street
Redwood City CA 94063
US

00-12-76 (hex) CG Power Systems Ireland Limited
001276 (base 16) CG Power Systems Ireland Limited
Herbert House., Harmony Row,
Dublin
D2
IE

00-12-71 (hex) Measurement Computing Corp
001271 (base 16) Measurement Computing Corp
10 Commerce Way
Norton MA 02766
US

00-12-73 (hex) Stoke Inc
001273 (base 16) Stoke Inc
2189 Leghorn Street
Mountain View CA 94043
US

00-12-7F (hex) Cisco Systems, Inc
00127F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-12-7B (hex) VIA Networking Technologies, Inc.
00127B (base 16) VIA Networking Technologies, Inc.
8F,533, Chung-Cheng Road, Hsin-Tien
Taipei 231
TW

00-12-80 (hex) Cisco Systems, Inc
001280 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-12-93 (hex) ABB Switzerland Ltd.
001293 (base 16) ABB Switzerland Ltd.

Via Luserte Sud 9 Quartino
Quartino 6572
CH

00-12-94 (hex) SUMITOMO ELECTRIC DEVICE INNOVATIONS, INC
001294 (base 16) SUMITOMO ELECTRIC DEVICE INNOVATIONS, INC
1000
Kamisukiawara,Showa-cho
Nakakoma-gun Yamanashi 409-3883
JP

00-12-96 (hex) Addlogix
001296 (base 16) Addlogix
459 Wald
Irvine CA 92618
US

00-12-61 (hex) Adaptix, Inc
001261 (base 16) Adaptix, Inc
1407 116th Ave. NE
Bellevue WA 98004
US

00-12-60 (hex) Stanton Magnetics,inc.
001260 (base 16) Stanton Magnetics,inc.
3000 SW 42nd Street
Hollywood FL 33312
US

00-12-58 (hex) TechVoIP Sp z o.o.
001258 (base 16) TechVoIP Sp z o.o.
Os. Boleslawa Chrobrego 117
Poznan Wielkopolska 60-681
PL

00-12-50 (hex) Tokyo Aircaft Instrument Co., Ltd.
001250 (base 16) Tokyo Aircaft Instrument Co., Ltd.
1-35-1, Izumi-Honcho
Komae-Shi Tokyo 201-8555
JP

00-12-52 (hex) Citronix, LLC
001252 (base 16) Citronix, LLC
2214 South Watson Road
Arlington Texas 76010
US

00-12-4B (hex) Texas Instruments

00124B (base 16) Texas Instruments
Gaustadalleen 21
Oslo
N-0349
NO

00-12-4A (hex) Dedicated Devices, Inc.
00124A (base 16) Dedicated Devices, Inc.
5680 E. Franklin Road
Nampa Idaho 83687
US

00-12-A6 (hex) Dolby Australia
0012A6 (base 16) Dolby Australia
Level 6
Surry Hills NSW 2010
AU

00-12-A4 (hex) ThingMagic, LLC
0012A4 (base 16) ThingMagic, LLC
One Broadway
Cambridge MA 02142
US

00-12-A9 (hex) 3Com Ltd
0012A9 (base 16) 3Com Ltd
Peoplebuilding 2
Hemel Hempstead Herts HP2 4NW
GB

00-12-43 (hex) Cisco Systems, Inc
001243 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-12-99 (hex) Ktech Telecommunications Inc
001299 (base 16) Ktech Telecommunications Inc
21540 Prairie Street Unit B
Chatsworth CA 91311
US

00-12-8C (hex) Woodward Governor
00128C (base 16) Woodward Governor
1000 E. Drake Road
Ft. Collins CO 80525
US

00-11-D2 (hex) Perception Digital
Ltd
0011D2 (base 16) Perception Digital Ltd
Flat A, 8/F, Shaw House
Clear Water Bay NT
HK

00-11-D9 (hex) TiVo
0011D9 (base 16) TiVo
2160 Gold Ave
Alviso CA 95002-2160
US

00-11-CF (hex) Thrane & Thrane A/S
0011CF (base 16) Thrane & Thrane A/S
Lundtoftegårdsvej 93D
Lyngby København 2800
DK

00-11-D4 (hex) NetEnrich, Inc
0011D4 (base 16) NetEnrich, Inc
890 Hillview Ct.
Milpitas CA 95035
US

00-11-D5 (hex) Hangzhou Sunyard System Engineering Co.,Ltd.
0011D5 (base 16) Hangzhou Sunyard System Engineering Co.,Ltd.
Sunyard Science & Technology Building Hi-Tech Software Park(Second Land Consolidation)
Hangzhou Zhejiang 310053
CN

00-11-F8 (hex) AIRAYA Corp
0011F8 (base 16) AIRAYA Corp
637 Adair Court
Morgan Hill CA 95037
US

00-11-F4 (hex) woori-net
0011F4 (base 16) woori-net
#508, Hankook Moolyu, 853-1 Dongchun-Dong
Yongin-Si Kyungki-Do 449-843
KR

00-11-F6
(hex) Asia Pacific Microsystems , Inc.
0011F6 (base 16) Asia Pacific Microsystems , Inc.
No.2,R&D Road 6 ,Science-Based Industrial Park,
Hsinchu 300

TW

00-11-F0 (hex) Wideful Limited
0011F0 (base 16) Wideful Limited
F5, 3/F., Phase II, Superluck Industrial Centre,

HK

00-11-F1 (hex) QinetiQ Ltd
0011F1 (base 16) QinetiQ Ltd
Room E601
Malvern Worcestershire WR14 3PS
GB

00-11-ED (hex) 802 Global
0011ED (base 16) 802 Global
Studio 11,Intec 2,Wade Road
Hampshire RG24 BNE
GB

00-11-CC (hex) Guangzhou Jinpeng Group Co.,Ltd.
0011CC (base 16) Guangzhou Jinpeng Group Co.,Ltd.
No.9 Shenzhou Road,Guangzhou Science City
Guangzhou Guangdong 510663
CN

00-11-C7 (hex) Raymarine UK Ltd
0011C7 (base 16) Raymarine UK Ltd
Marine House
Fareham Hampshire PO15 5RJ
GB

00-11-C9 (hex) MTT Corporation
0011C9 (base 16) MTT Corporation
2-7-12
Nishi-ku
Kobe 651-2241
JP

00-11-B5 (hex) Shenzhen Powercom Co.,Ltd
0011B5 (base 16) Shenzhen Powercom Co.,Ltd
Floor 16,Tower B,Zhongyin Building,North Caitian Road,Futian District,Shenzhen,P.R.China
Shenzhen Guangdong province 518028
CN

00-11-BB (hex) Cisco Systems, Inc
0011BB (base 16) Cisco Systems, Inc
80 West Tasman Drive

San Jose CA 94568
US

00-11-BD (hex) Bombardier Transportation
0011BD (base 16) Bombardier Transportation
1501 Lebanon Church Road
Pittsburgh PA 15236
US

00-12-03 (hex) ActivNetworks
001203 (base 16) ActivNetworks
BAT L - 1 rue de Terre Neuve
COURTABOEUF 91944
FR

00-12-11 (hex) Protechna Herbst GmbH & Co. KG
001211 (base 16) Protechna Herbst GmbH & Co. KG
Otto Hahn Str. 26
Ottobrunn Germany/Bavaria 85521
DE

00-12-19 (hex) General Datacomm LLC
001219 (base 16) General Datacomm LLC
353 Christian Street, Suite 4
Oxford CT 06478
US

00-12-16
(hex) ICP Internet Communication Payment AG
001216 (base 16) ICP Internet Communication Payment AG
Wilhelm-Stein-Weg 24
Hamburg D-22339
DE

00-12-15 (hex) iStor Networks, Inc.
001215 (base 16) iStor Networks, Inc.
7585 Irvine Center Drive
Irvine CA 92618
US

00-11-DB (hex) Land-Cellular Corporation
0011DB (base 16) Land-Cellular Corporation
12054 Miramar Parkway
Miramar FL 33025
US

00-12-40 (hex) AMOI ELECTRONICS CO.,LTD
001240 (base 16) AMOI ELECTRONICS CO.,LTD

295 Lane,Zuchongzhi Road,Zhang jiang,
Shanghai 201203
CN

00-12-2E (hex) Signal Technology - AISD
00122E (base 16) Signal Technology - AISD
1820 Preston Park Blvd.
Plano TX 75093
US

00-12-31 (hex) Motion Control Systems, Inc.
001231 (base 16) Motion Control Systems, Inc.
PO Box 115
New River VA 24129
US

00-12-24 (hex) NexQL Corporation
001224 (base 16) NexQL Corporation
12250
Inwood Road #6
Dallas TX 75244
US

00-11-50 (hex) Belkin Corporation
001150 (base 16) Belkin Corporation
501 West Walnut Street
Compton CA 90220-5221
US

00-11-46 (hex) Telecard-Pribor Ltd
001146 (base 16) Telecard-Pribor Ltd
Lustdorfskaya doroga, 162
Odessa 65115
UA

00-11-AA (hex) Uniclass Technology, Co., LTD
0011AA (base 16) Uniclass Technology, Co., LTD
4F, No. 98, Ming chuan Rd
Hsintien City Taipei Hsien 231
TW

00-11-B1 (hex) BlueExpert Technology Corp.
0011B1 (base 16) BlueExpert Technology Corp.
8F,No.16,Lane 77,Xing-Ai Rd,Nei-Hu District
Taipei 11494
TW

00-11-A6 (hex) Sypixx Networks

0011A6 (base 16) Sypixx Networks
108 Bank Street
Waterbury CT 06702
US

00-11-66 (hex) Taelim Electronics Co., Ltd.
001166 (base 16) Taelim Electronics Co., Ltd.
196-5, ANYANG7-DONG MANAN-GU
ANYANG-SI KYUGGI-DO 430-817
KR

00-11-64 (hex) ACARD
Technology Corp.
001164 (base 16) ACARD Technology Corp.
6F No.78 Sec1 Kwang Fu Road, Sanchung,
Taipei Hsien 241
TW

00-11-55 (hex) Sevis Systems
001155 (base 16) Sevis Systems
2805 N Dallas Parkway, STE 530
Plano Texas 75093
US

00-11-52 (hex) Eidsvoll Electronics AS
001152 (base 16) Eidsvoll Electronics AS
Nedre Vilberg vei 8
Eidsvoll N-2080
NO

00-11-7E (hex) Midmark Corp
00117E (base 16) Midmark Corp
1001 Asbury Dr
Buffalo Grove IL 60089
US

00-11-79 (hex) Singular Technology Co. Ltd.
001179 (base 16) Singular Technology Co. Ltd.
21F, No.37, Sec.2, San Min Rd.,
Taipei 220
TW

00-11-8A (hex) Viewtran Technology Limited
00118A (base 16) Viewtran Technology Limited
3/F, R2-A builiding, High Tech Industrial Park,
Shenzhen Guangdong 518057
CN

00-11-84 (hex) Humo Laboratory,Ltd.
001184 (base 16) Humo Laboratory,Ltd.
Nishiogi-Kita 5-19-11
Suginami-ku
Tokyo 167-0042
JP

00-11-4C (hex) caffeina applied research ltd.
00114C (base 16) caffeina applied research ltd.
125 baird ave
cochrane alberta t4c 1c7
CA

00-11-41 (hex) GoodMan Corporation
001141 (base 16) GoodMan Corporation
2F, No.572, Sec.1, Ming-Sheng N Road, Kwei-Shan Hsiang
Taoyuan Hsien 33300
TW

00-11-A2 (hex) Manufacturing Technology Inc
0011A2 (base 16) Manufacturing Technology Inc
70 Ready Ave NW
Fort Walton Beach FL 32548
US

00-11-9E (hex) Solectron Brazil
00119E (base 16) Solectron Brazil
Rod. Campinas Mogi Mirim
Jaguariuna SP 13820-000
BR

00-11-73 (hex) SMART Storage Systems
001173 (base 16) SMART Storage Systems
2600 W Geronimo Place
Chandler AZ 85224
US

00-11-1C (hex) Pleora Technologies Inc.
00111C (base 16) Pleora Technologies Inc.
359 Terry Fox Drive, Suite 230
Kanata ON K2K 2E7
CA

00-11-25 (hex) IBM Corp
001125
(base 16) IBM Corp
3039 E Cornwallis Road
Research Triangle Park NC 27709-2195

US

00-11-1F (hex) Doremi Labs, Inc.
00111F (base 16) Doremi Labs, Inc.
306 E. Alameda Ave.
Burbank CA 91502
US

00-11-1D (hex) Hectrix Limited
00111D (base 16) Hectrix Limited
Unit 906-911, 9/F, Stanhope Hosue,
North Point Hong Kong
CN

00-11-19 (hex) Solteras, Inc.
001119 (base 16) Solteras, Inc.
900 W. Santa Anita Street
San Gabriel CA 91776
US

00-11-14 (hex) EverFocus Electronics Corp.
001114 (base 16) EverFocus Electronics Corp.
2F., No.8, Ln. 270, Sec. 3, Beishen Rd.,
New Taipei City Shenkeng Dist. 222
TW

00-11-0E (hex) Tsurusaki Sealand Transportation Co. Ltd.
00110E (base 16) Tsurusaki Sealand Transportation Co. Ltd.
1000 Misa
Oita 8700196
JP

00-0F-D7 (hex) Harman Music Group
000FD7 (base 16) Harman Music Group
8760 Sandy Parkway
Sandy Utah 84070
US

00-0F-D4
(hex) Soundcraft
000FD4 (base 16) Soundcraft
Cranborne House
Potters Bar Hertfordshire EN6 3JN
GB

00-0F-CF (hex) DataWind Research
000FCF (base 16) DataWind Research
555 Rene-Levesque West

Montreal Quebec H2Z 1B1
CA

00-0F-D2 (hex) EWA Technologies, Inc.
000FD2 (base 16) EWA Technologies, Inc.
13873 Park Center Road
Herndon VA 20171
US

00-0F-CE (hex) Kikusui Electronics Corp.
000FCE (base 16) Kikusui Electronics Corp.
1-1-3,Higashi yamata
Yokohama Kanagawa 224-0023
JP

00-0F-A1 (hex) Gigabit Systems Inc.
000FA1 (base 16) Gigabit Systems Inc.
Fuyoh Video Building 3F
Yokohama Kanagawa 241-0826
JP

00-0F-99 (hex) APAC opto Electronics Inc.
000F99 (base 16) APAC opto Electronics Inc.
3 Tzu Chiang Road, Hsinchu Industrial Park
Hukow, Hsinchu Hsien 303
TW

00-0F-8E (hex) DONGYANG TELECOM CO.,LTD.
000F8E (base 16) DONGYANG TELECOM
CO.,LTD.
642-7, DEUNGCHON-DONG, KANGSEO-GU
SEOUL KANGSE-GU 157-841
KR

00-0F-91 (hex) Aerotelecom Co.,Ltd.
000F91 (base 16) Aerotelecom Co.,Ltd.
195-58 Anyang 7 Dong
Anyang Kyunggi 430-817
US

00-0F-E8 (hex) Lobos, Inc.
000FE8 (base 16) Lobos, Inc.
U&T Bldg 3F, 1-2-3 Sarugaku-cho, Chiyoda-ku,
Tokyo 101-0064
JP

00-0F-EB (hex) Cylon Controls
000FEB (base 16) Cylon Controls

Clonshaugh Industrial Estate
Dublin 17
IE

00-0F-DC (hex) Ueda Japan Radio Co., Ltd.
000FDC (base 16) Ueda Japan Radio Co., Ltd.
Fumiiri 2-10-19
Ueda city Nagano prefecture 386-8608
JP

00-0F-F4 (hex) Guntermann & Drunck GmbH
000FF4 (base 16) Guntermann & Drunck GmbH
Obere Leimbach 9
Siegen NRW 57074
DE

00-0F-F8 (hex) Cisco Systems, Inc
000FF8 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0F-F5 (hex) GN&S company
000FF5 (base 16) GN&S
company
301 Ansan S/W center, 643-7 wongok-dong
Ansan city Gyeonggi-do 425-130
KR

00-0F-B2 (hex) Broadband Pacenet (India) Pvt. Ltd.
000FB2 (base 16) Broadband Pacenet (India) Pvt. Ltd.
7-B, Shah Industrial Estate, Off Veera Desai Road
Mumbai Maharashtra 400 053
IN

00-11-2C (hex) IZT GmbH
00112C (base 16) IZT GmbH
Am Weichselgarten 5
Erlangen Bavaria 91058
DE

00-11-0D (hex) SANBlaze Technology, Inc.
00110D (base 16) SANBlaze Technology, Inc.
2 Clock Tower Place
Maynard MA 01748
US

00-11-06 (hex) Siemens NV (Belgium)

001106 (base 16) Siemens NV (Belgium)
Atealaan 34
Herentals Antwerp 2200
BE

00-0F-AF (hex) Dialog Inc.
000FAF (base 16) Dialog Inc.
1-47-9
Toshima-ku Tokyo 1700013
JP

00-0F-A5 (hex) BWA Technology GmbH
000FA5 (base 16) BWA Technology GmbH
Johann-Krane-Weg 21
Muenster 48149
DE

00-0F-29 (hex) Augmentix Corporation
000F29
(base 16) Augmentix Corporation
4030 W Braker Ln
Austin Texas 78759
US

00-0F-27 (hex) TEAL Electronics, Inc.
000F27 (base 16) TEAL Electronics, Inc.
10350 Sorrento Valley Road
San Diego California 92121
US

00-0F-73 (hex) RS Automation Co., Ltd
000F73 (base 16) RS Automation Co., Ltd
447-6, Gongse-Dong , Giheung-Gu
Youngin-City Gyeonggi-Do 449-902
KR

00-0F-78 (hex) Datacap Systems Inc
000F78 (base 16) Datacap Systems Inc
100 New Britain Blvd
Chalfont PA 18914
US

00-0F-70 (hex) Wintec Industries, inc.
000F70 (base 16) Wintec Industries, inc.
675 Sycamore Drive
Milpitas, CA 95035
US

00-0F-74 (hex) Qamcom Technology AB
000F74 (base 16) Qamcom Technology AB
Gruvgatan 8
Vastra Frolunda
SE

00-0F-6D (hex) Midas Engineering
000F6D (base 16) Midas Engineering
Ace Techno-Tower V #906 197-22
Seoul 152-848
KR

00-0F-43 (hex) Wasabi Systems
Inc.
000F43 (base 16) Wasabi Systems Inc.
500 E. Main Street
Norfolk VA 23510
US

00-0F-48 (hex) Polypix Inc.
000F48 (base 16) Polypix Inc.
1Fl, Sungdo Venture Tower, 165-2 Samsung-Dong, Kangnam-Ku
Seoul 135-881
KR

00-0F-50 (hex) StreamScale Limited
000F50 (base 16) StreamScale Limited
The Court, Alexandra Park
St Helens WA10 3TP
GB

00-0F-47 (hex) ROBOX SPA
000F47 (base 16) ROBOX SPA
via Sempione 82
Castelletto S.Ticino NO 28053
IT

00-0F-4E (hex) Cellink
000F4E (base 16) Cellink
Catherinalaan 37
Rotselaar Vlaams Brabant B-3110
BE

00-0F-0F (hex) Real ID Technology Co., Ltd.
000F0F (base 16) Real ID Technology Co., Ltd.
9F Hanmi B/D 192-19
Gangnam-Gu Seoul 135-010
KR

00-0F-16 (hex) JAY HOW TECHNOLOGY CO.,
000F16 (base 16) JAY HOW TECHNOLOGY CO.,
NO.486,SEC. 1, WAN SHOU RD., KUEI
TAOYUAN HSIEN 333
TW

00-0F-5F (hex) Nicety Technologies
Inc. (NTS)
000F5F (base 16) Nicety Technologies Inc. (NTS)
792-3 Tomioka Toyoda-cho
Iwata-gun Shizuoka 438-0803
JP

00-0F-5A (hex) Peribit Networks
000F5A (base 16) Peribit Networks
2855 Bowers Ave
Santa Clara CA 95051
US

00-0F-18 (hex) Industrial Control Systems
000F18 (base 16) Industrial Control Systems
Houtschelf 1
Hardinxveld Zuid-Holland NL-3371 KB
NL

00-0F-1D (hex) Cosmo Techs Co., Ltd.
000F1D (base 16) Cosmo Techs Co., Ltd.
2-6-1, Matsue
Atsugi-shi Kanagawa-ken 243-0005
JP

00-0F-1B (hex) Ego Systems Inc.
000F1B (base 16) Ego Systems Inc.
1206 Woolim e-Biz Center II
Seoul 150-834
KR

00-0F-3C (hex) Endeleo Limited
000F3C (base 16) Endeleo Limited
78 Cannon Street
London England EC4N 6NQ
GB

00-0F-31 (hex) Allied Vision Technologies Canada Inc
000F31 (base 16) Allied Vision Technologies Canada Inc
101-3750 North Fraser Way
Burnaby

BC V5J 5E9
CA

00-0F-87 (hex) Maxcess International
000F87 (base 16) Maxcess International
222 W. Memorial Road
Oklahoma City OK 73114
US

00-0F-80 (hex) Trinity Security Systems,Inc.
000F80 (base 16) Trinity Security Systems,Inc.
Alte Building Higashi Kanda 8F
Chiyoda-ku Tokyo 101-0031
JP

00-0E-8E (hex) SparkLAN Communications, Inc.
000E8E (base 16) SparkLAN Communications, Inc.
3Fl . , No. 246, Sec. 1, Neihu Road., Neihu Chiu,
Taipei 114
TW

00-0E-91 (hex) Navico Auckland Ltd
000E91 (base 16) Navico Auckland Ltd
17-21 Kawana St
Northcote Auckland
NZ

00-0E-84 (hex) Cisco Systems, Inc
000E84 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0E-87 (hex) adp Gauselmann GmbH
000E87 (base 16) adp Gauselmann GmbH
Boschstraße 8
Luebbecke NRW 32312
DE

00-0E-F9 (hex) REA Elektronik GmbH
000EF9 (base 16) REA Elektronik
GmbH
Teichwiesenstraße 1
Muehltal Hessen 64367
DE

00-0E-F6 (hex) E-TEN Information Systems Co., Ltd.
000EF6 (base 16) E-TEN Information Systems Co., Ltd.

No. 256, Yangguang Street, Neihu Chiu
Taipei 114
TW

00-0E-EA (hex) Shadong Luneng Jicheng Electronics,Co.,Ltd
000EEA (base 16) Shadong Luneng Jicheng Electronics,Co.,Ltd
No.188,east,Huayuan Road
Jinan Shandong 250100
CN

00-0E-E6 (hex) Adimos Systems LTD
000EE6 (base 16) Adimos Systems LTD
17 Atirey-Yeda Street
Kfar-Saba 44643
IL

00-0E-E0 (hex) Mcharge
000EE0 (base 16) Mcharge
Firstec Bldg,. 15-4 Youido-Dong
seoul Youido 150-010
KR

00-0E-F8 (hex) SBC ASI
000EF8 (base 16) SBC ASI
Network & Infrastructure Technical Support
San Antonio Texas 78215
US

00-0E-AB (hex) Cray Inc
000EAB (base 16) Cray Inc
901 Fifth Avenue
Seattle WA 98104
US

00-0E-AD (hex) Metanoia Technologies, Inc.
000EAD
(base 16) Metanoia Technologies, Inc.
5918 W. courtyard Dr.
Austin TX 78730
US

00-0E-AF (hex) CASTEL
000EAF (base 16) CASTEL
ZI Saint Lambert des Levées
SAUMUR Maine et Loire 49412
FR

00-0E-75 (hex) New York Air Brake Corp.

000E75 (base 16) New York Air Brake Corp.
748 Starbuck Ave.
Watertown NY 13601
US

00-0E-92 (hex) Open Telecom
000E92 (base 16) Open Telecom
803-804 Daeryung Techno-town II
Keuncheon-Ku Seoul 153-771
KR

00-0E-96 (hex) Cubic Defense Applications, Inc.
000E96 (base 16) Cubic Defense Applications, Inc.
P.O. Box 85587
San Diego CA 92186-5587
US

00-0E-9F (hex) TEMIC SDS GmbH
000E9F (base 16) TEMIC SDS GmbH
Soeflinger Strasse 100
Ulm 89077
DE

00-0E-C6 (hex) ASIX ELECTRONICS CORP.
000EC6 (base 16) ASIX ELECTRONICS CORP.
4F, NO.8, HSIN ANN RD.,
HSINCHU 300
TW

00-0E-BF (hex) Remsdaq Limited
000EBF (base
16) Remsdaq Limited
Parkway
Deeside Flintshire CH5 2NL
GB

00-0D-FD (hex) Huges Hi-Tech Inc.,
000DFD (base 16) Huges Hi-Tech Inc.,
7F, 188, Sec. 2, Chung Hsing Road.
Hsin Tien Taipei Hsien 231
TW

00-0D-F9 (hex) NDS Limited
000DF9 (base 16) NDS Limited
One Heathrow Boulevard
West Drayton Middlesex UB7 0DQ
GB

00-0D-FB (hex) Komax AG
000DFB (base 16) Komax AG
Industriestrasse 6
Dierikon LU 6036
CH

00-0E-00 (hex) Atrie
000E00 (base 16) Atrie
10th Floor, 14, Lane 609, Sec. 5, Chung Hsin Rd., San Chung City,
Taipei Hsien San Chung 241
TW

00-0D-F4 (hex) Watertek Co.
000DF4 (base 16) Watertek Co.
Room 1006,Haitai building,north si Huan
Beijing 100083
CN

00-0D-FA (hex) Micro Control Systems Ltd.
000DFA (base 16) Micro Control Systems Ltd.
8-7 Sakurai
Saku-shi Nagano 385-0056
JP

00-0D-FC (hex) ITFOR Inc.
000DFC (base 16) ITFOR Inc.
Ichibancho
Tokyu Bidg.,
Tokyo 102-0082
JP

00-0D-FE (hex) Hauppauge Computer Works, Inc.
000DFE (base 16) Hauppauge Computer Works, Inc.
91 Cabot Court
Hauppauge New York 11788
US

00-0E-68 (hex) E-TOP Network Technology Inc.
000E68 (base 16) E-TOP Network Technology Inc.
No. 7, Shin Shin Rd.,
Tainan 702
TW

00-0E-56 (hex) 4G Systems GmbH & Co. KG
000E56 (base 16) 4G Systems GmbH & Co. KG
Jarrestrasse 2-6
22303 Hamburg
DE

00-0E-55 (hex) AUVITRAN
000E55 (base 16) AUVITRAN
7c chemin des Prés
MEYLAN 38410
FR

00-0E-0F (hex) ERMME
000E0F (base 16) ERMME
9 rue Lavoisier
Vert-Le-Petit 91710
FR

00-0E-10 (hex) C-guys, Inc.
000E10 (base 16) C-guys, Inc.
Izumi Garden Wing 1F, 1-6-3
Tokyo 106-0032
JP

00-0E-13 (hex) Accu-Sort Systems inc.
000E13 (base 16) Accu-Sort Systems inc.
511 School House Road
Telford PA 18969
US

00-0E-0A
(hex) SAKUMA DESIGN OFFICE
000E0A (base 16) SAKUMA DESIGN OFFICE
674-11
KUKI-SHI SAITAMA 346-0029
JP

00-0E-0E (hex) ESA elettronica S.P.A.
000E0E (base 16) ESA elettronica S.P.A.

Mariano Comense CO 22066
IT

00-0E-7C (hex) Televes S.A.
000E7C (base 16) Televes S.A.
Rua Benefica Conxo 17
Santiago de Compostela Coruña 15706
ES

00-0E-73 (hex) Tpack A/S
000E73 (base 16) Tpack A/S
Lautrupbjerg 7 - 11
DK 2750 Ballerup DK 2750

DK

00-0E-6E (hex) MAT S.A. (Mircrelec Advanced Technology)
000E6E (base 16) MAT S.A. (Mircrelec Advanced Technology)
Mousounitsis 15
Peristeri Athens
GR

00-0E-66 (hex) Hitachi Industry & Control Solutions, Ltd.
000E66 (base 16) Hitachi Industry & Control Solutions, Ltd.
5-1-26, Omika-cho, Hitachi-shi, Ibaraki
319-1221
JP

00-0E-48 (hex) Lipman TransAction Solutions
000E48 (base 16) Lipman TransAction Solutions
11 Haamal
St.
Rosh-Haayin 48092
IL

00-0E-3E (hex) Sun Optronics Inc
000E3E (base 16) Sun Optronics Inc
4-38-4 Fuchinobe-honchou
Sagamihara Kanagawa 229-0002
JP

00-0E-33 (hex) Shuko Electronics Co.,Ltd
000E33 (base 16) Shuko Electronics Co.,Ltd
TOHSHIN HIGASHI-IKEBUKURO Building 3F
TOKYO KANTOH 170-0063
JP

00-0E-3A (hex) Cirrus Logic
000E3A (base 16) Cirrus Logic
2901 Via Fortuna
Austin TX 78746
US

00-0E-27 (hex) Crere Networks, Inc.
000E27 (base 16) Crere Networks, Inc.
Room 110 ETRI TBI, 52 Eoeun-dong
Daejeon 305-333
KR

00-0E-18 (hex) MyA Technology
000E18 (base 16) MyA Technology
2100 Muirwood Way

San Jose CA 95132
US

00-0E-14 (hex) Visionary Solutions, Inc.
000E14 (base 16) Visionary Solutions, Inc.
4193 Carpinteria Ave
Carpinteria CA 93013
US

00-0E-1B (hex) IAV GmbH
000E1B (base 16) IAV GmbH
Carnotstraße 1
Berlin 10587
DE

00-0D-EC
(hex) Cisco Systems, Inc
000DEC (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0D-F2 (hex) Private
000DF2 (base 16) Private

00-0E-3B (hex) Hawking Technologies, Inc.
000E3B (base 16) Hawking Technologies, Inc.
15281A Barranca Parkway
Irvine CA 92618
US

00-0E-53 (hex) AV TECH CORPORATION
000E53 (base 16) AV TECH CORPORATION
10F,E Building,No.19-11 San Chung Rd.,NanKang
Taipei 115
TW

00-0D-DA (hex) ALLIED TELESIS K.K.
000DDA (base 16) ALLIED TELESIS K.K.
PIAZZA TIRANA N. 24/4 B
MILANO 20147
IT

00-0D-D6 (hex) ITI LTD
000DD6 (base 16) ITI LTD
R&D,ITI Bangalore Complex
Dooravani Nagar, Bangalore Karnataka State 560016
IN

00-0D-D5 (hex) O'RITE TECHNOLOGY CO.,LTD
000DD5 (base 16) O'RITE TECHNOLOGY CO.,LTD
4f-8,NO 80,GUANGFU RD.SEC 2,SANCHUNG
TAIPEI COUNTY 241
TW

00-0D-9B (hex) Heraeus Electro-Nite
International N.V.
000D9B (base 16) Heraeus Electro-Nite International N.V.
Centrum Zuid 1105
Houthalen 3530
BE

00-0D-8A (hex) Winners Electronics Co., Ltd.
000D8A (base 16) Winners Electronics Co., Ltd.
#340-5,Wonchun-Dong,Paldal-Gu
Suwon-City Kyungki-Do 442-823
KR

00-0D-8E (hex) Koden Electronics Co., Ltd.
000D8E (base 16) Koden Electronics Co., Ltd.
5278 Uenohara
Yamanashi-Ken 409-0112
JP

00-0D-7E (hex) Axiowave Networks, Inc.
000D7E (base 16) Axiowave Networks, Inc.
200 Nickerson Road
Marlborough MA 01752
US

00-0D-A0 (hex) NEDAP N.V.
000DA0 (base 16) NEDAP N.V.
P.O.Box 103
GROENLO GLD 7141 AC
NL

00-0D-6B (hex) Mita-Teknik A/S
000D6B (base 16) Mita-Teknik A/S
Haandvaerkervej 1
Roedkaersbro DK-8840
DK

00-0D-71 (hex) boca systems
000D71 (base 16) boca systems
1065 s. rogers circle
boca raton fl 33487

US

00-0D-5A (hex) Tiesse
SpA
000D5A (base 16) Tiesse SpA
Via Asti
Ivrea TO 10015
IT

00-0D-CD (hex) GROUPE TXCOM
000DCD (base 16) GROUPE TXCOM
ZI DU PETIT CLAMART
LE PLESSIS ROBINSON HAUTS-DE-SEINE 92350
FR

00-0D-CF (hex) Cidra Corp.
000DCF (base 16) Cidra Corp.
50 Barns Park North
Wallingford CT 06492
US

00-0D-CA (hex) Tait Electronics
000DCA (base 16) Tait Electronics
535 Wairakei Rd
Christchurch Canterbury 8005
NZ

00-0D-B8 (hex) SCHILLER AG
000DB8 (base 16) SCHILLER AG
Altgasse 68
Baar Zug 6300
CH

00-0D-C4 (hex) Emcore Corporation
000DC4 (base 16) Emcore Corporation
1600 Eubank Blvd, SE
Albuquerque New Mexico 87123
US

00-0D-DE (hex) Joyteck Co., Ltd.
000DDE (base 16) Joyteck Co., Ltd.
19F, No.4, Sec. 3, Min Chuan East Rd.
Taipei 105
TW

00-0D-E2 (hex) CMZ Sistemi Elettronici
000DE2 (base 16) CMZ Sistemi Elettronici
Via dell'Artiginato,

21
Vascon di Carbonera Treviso 31050
IT

00-0D-7C (hex) Codian Ltd
000D7C (base 16) Codian Ltd
14 Waterside Drive
Langley Slough SL3 6EZ
GB

00-0D-43 (hex) DRS Tactical Systems Inc.
000D43 (base 16) DRS Tactical Systems Inc.
3520 U.S. Highway 1
Palm Bay FL 32905
US

00-0D-44 (hex) Audio BU - Logitech
000D44 (base 16) Audio BU - Logitech
1499 SE Tech Center Place
Vancouver WA 98683
US

00-0D-3D (hex) Hammerhead Systems, Inc.
000D3D (base 16) Hammerhead Systems, Inc.
640 Clyde Court
Mountain View California 94043
US

00-0D-3E (hex) APLUX Communications Ltd.
000D3E (base 16) APLUX Communications Ltd.
10F, No. 166, Dah-Yeh Rd., Peitou
Taipei 112
TW

00-0D-36 (hex) Wu Han Routon Electronic Co., Ltd
000D36 (base 16) Wu Han Routon Electronic Co., Ltd
Miao Shan District, East Lake Hi-Tech
Wuhan Hubei 430223
CN

00-0D-3B (hex) Microelectronics Technology
Inc.
000D3B (base 16) Microelectronics Technology Inc.
No1, Innovation Road II
300
TW

00-0D-52 (hex) Comart system

000D52 (base 16) Comart system
No. 211, Ace Techno Tower III, 197-48
Seoul 152-050
KR

00-0D-4A (hex) Steag ETA-Optik
000D4A (base 16) Steag ETA-Optik
Borsigstrasse 78.-80
Heinsberg 52525
DE

00-0D-4F (hex) Kenwood Corporation
000D4F (base 16) Kenwood Corporation
2967-3, Ishikawa-machi
Hachioji-shi Tokyo 192-8525
JP

00-0D-47 (hex) Collex
000D47 (base 16) Collex
13F-3,No.142,Sec.1,Huamei W,St.,Shi Chiu
Taichung 403
TW

00-0C-FF (hex) MRO-TEK Realty Limited
000CFF (base 16) MRO-TEK Realty Limited
#6, New BEL Road
Chikkamaranahalli Bangalore 560 054
IN

00-0C-FA (hex) Digital Systems Corp
000CFA (base 16) Digital Systems Corp
3 North Main Street
Walkersville Maryland 21793
US

00-0C-FD (hex) Hyundai ImageQuest
Co.,Ltd.
000CFD (base 16) Hyundai ImageQuest Co.,Ltd.
San 136-1, Ami-ri, Bubal-eub
Ichon-si Kyoung ki-do 467-701
KR

00-0C-EB (hex) CNMP Networks, Inc.
000CEB (base 16) CNMP Networks, Inc.
1245 S. Winchester Blvd.
San Jose CA 95128
US

00-0C-D3 (hex) Prettl Elektronik Radeberg GmbH
000CD3 (base 16) Prettl Elektronik Radeberg GmbH
Robert-Bosch-Str. 10
Radeberg Saxony D-01454
DE

00-0D-1E (hex) Control Techniques
000D1E (base 16) Control Techniques
The Gro
Newtown Powys SY16 3BE
GB

00-0D-0D (hex) ITSupported, LLC
000D0D (base 16) ITSupported, LLC
4989 Peachtree Parkway
Norcross GA 30092
US

00-0D-06 (hex) Compulogic Limited
000D06 (base 16) Compulogic Limited
Unit W3, MK TWO Business Centre
Water Eaton Milton Keynes MK2 3HU
GB

00-0D-03 (hex) Matrics, Inc.
000D03 (base 16) Matrics, Inc.
8850 Stanford Blvd
Columbia MD 21045
US

00-0D-61
(hex) Giga-Byte Technology Co., Ltd.
000D61 (base 16) Giga-Byte Technology Co., Ltd.
No 6, Bau Chiang Road, Hsin-Tien
Taipei Hsien 9999
TW

00-0D-2D (hex) NCT Deutschland GmbH
000D2D (base 16) NCT Deutschland GmbH
Wildenbruchstraße 15
Jena Thüringen 07745
DE

00-0D-1A (hex) Mustek System Inc.
000D1A (base 16) Mustek System Inc.
No. 25, R&D Road, Science-Based Industri
Hsin-Chu 300
TW

00-0C-64 (hex) X2 MSA Group
000C64 (base 16) X2 MSA Group
Care of: Agilent Technologies
Ipswich, Suffolk IP1 5PB
GB

00-0C-88 (hex) Apache Micro Peripherals, Inc.
000C88 (base 16) Apache Micro Peripherals, Inc.
17526 Von Karman Ave
Irvine CA 92614
US

00-0C-82 (hex) NETWORK TECHNOLOGIES INC
000C82 (base 16) NETWORK TECHNOLOGIES INC
1275 DANNER DRIVE
AURORA OH 44202
US

00-0C-7C (hex) Internet Information Image Inc.
000C7C (base 16) Internet Information Image Inc.
Fl.
6, No. 1, Alley 20, Lane 26, Rueigua
Taipei 114
TW

00-0C-7B (hex) ALPHA PROJECT Co.,Ltd.
000C7B (base 16) ALPHA PROJECT Co.,Ltd.
834 Sekishi,Higashi-ku,Hamamatsu-city
Shizuoka 431-3114
JP

00-0C-77 (hex) Life Racing Ltd
000C77 (base 16) Life Racing Ltd
Unit 6 Repton Close
Basildon Essex SS13 1LE
GB

00-0C-BD (hex) Interface Masters, Inc
000CBD (base 16) Interface Masters, Inc
2381 Zanker Rd., Suite 130
San Jose California 95131
US

00-0C-B2 (hex) UNION co., ltd.
000CB2 (base 16) UNION co., ltd.
14Beon-Gil 17, UiChang-Gu,
GyeongSnagNam-Do 641-846

KR

00-0C-B9 (hex) LEA
000CB9 (base 16) LEA
Bat LA FAYETTE
Paris RP 924051
FR

00-0C-B8 (hex) MEDION AG
000CB8 (base 16) MEDION AG
Am Zehnthof 77
Essen NRW 45307
DE

00-0C-BB (hex) ISKRAEMECO
000CBB (base 16) ISKRAEMECO
Savska loka 4
Kranj Gorenjska 4000
SI

00-0C-C0 (hex) Genera
Oy
000CC0 (base 16) Genera Oy
Niittylanpolku 16
Helsinki 00621
FI

00-0C-A0 (hex) StorCase Technology, Inc.
000CA0 (base 16) StorCase Technology, Inc.
17600 Newhope St.
Fountain Valley CA 92708
US

00-0C-99 (hex) HITEL LINK Co.,Ltd
000C99 (base 16) HITEL LINK Co.,Ltd
Samsung Omni Tower 4th Fl., 395-62
Seoul 156-010
KR

00-0C-69 (hex) National Radio Astronomy Observatory
000C69 (base 16) National Radio Astronomy Observatory
P.O. Box O
Socorro NM 87801
US

00-0C-66 (hex) Pronto Networks Inc
000C66 (base 16) Pronto Networks Inc
4637 Chabot Dr

Pleasanton CA 94588
US

00-0C-4E (hex) Winbest Technology CO,LT
000C4E (base 16) Winbest Technology CO,LT
7F-5No.736 Chung ChengRd.,ChungHo
Taipei 235
TW

00-0C-A8 (hex) Garuda Networks Corporation
000CA8 (base 16) Garuda Networks Corporation
48499 Milmont Drive
Fremont CA 94538
US

00-0C-A7
(hex) Metro (Suzhou) Technologies Co., Ltd.
000CA7 (base 16) Metro (Suzhou) Technologies Co., Ltd.
No.221 Xinghai Street, Suzhou Industrial Park
Suzhou Jiang Su Province 215021
CN

00-0C-C7 (hex) Intelligent Computer Solutions Inc.
000CC7 (base 16) Intelligent Computer Solutions Inc.
9350 Eton St.
Chatsworth CA 91301
US

00-0C-BE (hex) Innominate Security Technologies AG
000CBE (base 16) Innominate Security Technologies AG
Rudower Chaussee 13
12489 Berlin
DE

00-0C-89 (hex) AC Electric Vehicles, Ltd.
000C89 (base 16) AC Electric Vehicles, Ltd.
Markkinakuja 3
Jokela 05400
FI

00-0C-D7 (hex) Nallatech Ltd
000CD7 (base 16) Nallatech Ltd
Boolean House
Glasgow Scotland G68 0BH
GB

00-0C-D4 (hex) Positron Public Safety Systems inc.
000CD4 (base 16) Positron Public Safety Systems inc.

5101 Buchan
Montreal Quebec H4P 2R9
CA

00-0C-CC (hex) Aeroscout Ltd.
000CCC
(base 16) Aeroscout Ltd.
3 Pekeris St.
Rehovot 76701
IL

00-0B-F2 (hex) Chih-Kan Technology Co., Ltd.
000BF2 (base 16) Chih-Kan Technology Co., Ltd.
No. 24-1, Pei Shih Chou, Ming Ho Vill.
Shan Sun Hsiang Tainan Hsien 180
TW

00-0B-EB (hex) Systegra AG
000BEB (base 16) Systegra AG
Burgunderstrasse 15
Bellach SO 4512
CH

00-0B-EF (hex) Code Corporation
000BEF (base 16) Code Corporation
11814 S. Election Rd., Ste 200
Draper Utah 84020
US

00-0B-DF (hex) Shenzhen RouterD Networks Limited
000BDF (base 16) Shenzhen RouterD Networks Limited
8/F, Building A, Tsinghua Hi-Tech Park
Shenzhen
CN

00-0B-E6 (hex) Datel Electronics
000BE6 (base 16) Datel Electronics
Stafford Road
Stone Staffordshire ST15 0DG
GB

00-0C-45 (hex) Animation Technologies Inc.
000C45 (base 16) Animation Technologies Inc.
8F,No.138,Lane 235,Paochiao Road,
Taipei Hsien 231
TW

00-0C-3C

(hex) MediaChorus, Inc.
000C3C (base 16) MediaChorus, Inc.
#205, ETRI TBI 2 Center
Daejon DJ 305-333
KR

00-0C-38 (hex) TelcoBridges Inc.
000C38 (base 16) TelcoBridges Inc.
586 Du Chenal
Repentigny Quebec J6A 7C5
CA

00-0B-F5 (hex) Shanghai Sibo Telecom Technology Co.,Ltd
000BF5 (base 16) Shanghai Sibo Telecom Technology Co.,Ltd
Floor 6 Building 18,300 Tianlin Rd.
Shanghai 200233
CN

00-0B-FE (hex) CASTEL Broadband Limited
000BFE (base 16) CASTEL Broadband Limited
9/F., Sui Ying Industrial Building.,
Tokwawan Kowloon 150
HK

00-0C-2A (hex) OCTTEL Communication Co., Ltd.
000C2A (base 16) OCTTEL Communication Co., Ltd.
7F-1, No.300, Daduen 10th St.
Taichung City 408
TW

00-0C-22 (hex) Double D Electronics Ltd
000C22 (base 16) Double D Electronics Ltd
Unit 6, Robins Wharf
Northfleet Kent DA11 9AX
GB

00-0C-1C (hex) MicroWeb Co., Ltd.
000C1C
(base 16) MicroWeb Co., Ltd.
403 T/S/S/C, 23-14 Jang-dong, Yusong-gu,
Daejeon ChoongChungDo 305-343
KR

00-0C-5A (hex) IBSmm Embedded Electronics Consulting
000C5A (base 16) IBSmm Embedded Electronics Consulting
Teufelsgrabenweg 1
Valley Bavaria D-83626
DE

00-0C-5E (hex) Calypso Medical
000C5E (base 16) Calypso Medical
2101 Fourth Avenue, Suite 1550
Seattle WA 98121
US

00-0C-61 (hex) AC Tech corporation DBA Advanced Digital
000C61 (base 16) AC Tech corporation DBA Advanced Digital
1250-G Avenida Acaso
Camarillo CA 93010
US

00-0C-0F (hex) Techno-One Co., Ltd
000C0F (base 16) Techno-One Co., Ltd
9-17-1 Higashi Sonoda
Amagasaki Hyogo 661-0953
JP

00-0C-05 (hex) RPA Reserch Co., Ltd.
000C05 (base 16) RPA Reserch Co., Ltd.
4F, 90-7, Yangjae-Dong, Seocho-Ku
Seoul 137-130
US

00-0C-5F (hex) Avtec, Inc.
000C5F (base 16) Avtec, Inc.
4335 Augusta
Hwy
Gilbert SC 29054
US

00-0C-4B (hex) Cheops Elektronik
000C4B (base 16) Cheops Elektronik
Jeschkenstrasse 32
Geretsried Bayern 82538
DE

00-0C-27 (hex) Sammy Corporation
000C27 (base 16) Sammy Corporation
SUN SHINE60 45F,3-1-1,HIGASHI-IKEBUKURO
TOSHIMA-KU TOKYO 170-6045
JP

00-0B-57 (hex) Silicon Laboratories
000B57 (base 16) Silicon Laboratories
7000 W. William Cannon Dr.
Austin TX 78735

US

00-0B-51 (hex) Micetek International Inc.
000B51 (base 16) Micetek International Inc.
7F-1, #237, Sec. 1, wu Chuan W. Rd.
Taichung 403
TW

00-0B-53 (hex) INITIUM Co., Ltd.
000B53 (base 16) INITIUM Co., Ltd.
8F. Gongduck Bldg. 272-6 Seohyun Bundang
Sungnam Kyunggi 463-824
KR

00-0B-AF (hex) WOOJU COMMUNICATIONS Co,.Ltd
000BAF (base 16) WOOJU COMMUNICATIONS Co,.Ltd
B-713, SK Twin Tech Tower, 345-9, Ga-San
Seoul 153-802
KR

00-0B-B6 (hex) Metalligence Technology
Corp.
000BB6 (base 16) Metalligence Technology Corp.
9, Park Avenue II, Science-Based Industr
Hsinchu 300
TW

00-0B-B7 (hex) Micro Systems Co.,Ltd.
000BB7 (base 16) Micro Systems Co.,Ltd.
2-15-34 Nishikubo
Musashino-City Tokyo 180-0013
JP

00-0B-B3 (hex) RiT technologies Ltd.
000BB3 (base 16) RiT technologies Ltd.
24 Raoul Walenberg St.
Tel Aviv 69719
IL

00-0B-BA (hex) Harmonic, Inc
000BBA (base 16) Harmonic, Inc
4300 North First Street
San Jose CA 95134
US

00-0B-62 (hex) ib-mohnen KG
000B62 (base 16) ib-mohnen KG
Stich 30 e

52249 Eschweiler
DE

00-0B-64 (hex) Kieback & Peter GmbH & Co KG
000B64 (base 16) Kieback & Peter GmbH & Co KG
Tempelhofer Weg 50
Berlin 12347
DE

00-0B-67 (hex) Topview Technology Corporation
000B67 (base 16) Topview Technology Corporation
No. 8,Wu-Chuan Road,Wu Ku Industrial Par
Wu Ku Hsiang,Taipei Hsien,
248
TW

00-0B-AE (hex) Vitals System Inc.
000BAE (base 16) Vitals System Inc.
Jooheung B/D 4FL. 1005-1, Youngtong-Dong
Suwon City Kyonggi-Do 442-813
KR

00-0B-D9 (hex) General Hydrogen
000BD9 (base 16) General Hydrogen
13120 Vanier Place
Richmond British Columbia V6V 2J2
CA

00-0B-94 (hex) Digital Monitoring Products, Inc.
000B94 (base 16) Digital Monitoring Products, Inc.
2500 N. Partnership Boulevard
Springfield Missouri 65803
US

00-0B-6D (hex) SOLECTRON JAPAN NAKANIIDA
000B6D (base 16) SOLECTRON JAPAN NAKANIIDA
325 GANBARA
KAMIGUN MIYAGIKEN 981-4263
JP

00-0B-AB (hex) Advantech Technology (CHINA) Co., Ltd.
000BAB (base 16) Advantech Technology (CHINA) Co., Ltd.
No.666, Han-Pu Rd. Yu-Shan
Kun-Shan Jiang Su 215316
CN

00-0B-7D (hex) SOLOMON EXTREME INTERNATIONAL LTD.
000B7D (base 16) SOLOMON EXTREME INTERNATIONAL LTD.

3F, No.20, Lane 165, Duenhua N. Rd.,
Sun
Taipei
TW

00-0B-C4 (hex) BIOTRONIK GmbH & Co
000BC4 (base 16) BIOTRONIK GmbH & Co
Woermannkehre 1
Berlin 12359
DE

00-0A-CA (hex) YOKOYAMA SHOKAI CO.,Ltd.
000ACA (base 16) YOKOYAMA SHOKAI CO.,Ltd.
6-96 Matsumura
Kanazawa Ishikawa 920-0348
JP

00-0A-CE (hex) RADIANTECH, INC.
000ACE (base 16) RADIANTECH, INC.
2-1, INDUSTRY EAST RD. 1, SCIENCE-BASED
HSIN CHU 300
TW

00-0A-C7 (hex) Unication Group
000AC7 (base 16) Unication Group
3F., No. 6, Wu-Kung 5Rd., Hsinchuang Cit
Taipei 242
TW

00-0B-48 (hex) sofrel
000B48 (base 16) sofrel
2 rue du plessis
vern sur seiche ille et vilaine 35770
FR

00-0B-4A (hex) Visimetrics (UK) Ltd
000B4A (base 16) Visimetrics (UK) Ltd
Skye House
Prestwick Ayrshire KA9 2TA
GB

00-0A-DE (hex) Happy Communication Co., Ltd.
000ADE (base 16) Happy Communication Co., Ltd.
42-11 WonMi-Dong
Bucheon-City KyungGi-Do
420-110
KR

00-0A-E2 (hex) Binatone Electronics International, Ltd
000AE2 (base 16) Binatone Electronics International, Ltd
Floor 23A, 9 Des Voeux Road West
Hong Kong China
HK

00-0A-D4 (hex) CoreBell Systems Inc.
000AD4 (base 16) CoreBell Systems Inc.
HTVC 2317 KAIST
Yuseong-Gu Daejeon 305-701
KR

00-0A-FF (hex) Kilchherr Elektronik AG
000AFF (base 16) Kilchherr Elektronik AG
Aeschistrasse 25
Muensingen BE 3110
CH

00-0A-F8 (hex) American Telecare Inc.
000AF8 (base 16) American Telecare Inc.
7640 Golden Triangle Drive
Eden Prairie MN 55344
US

00-0B-1E (hex) KAPPA opto-electronics GmbH
000B1E (base 16) KAPPA opto-electronics GmbH
Kleines Feld 6
Gleichen Niedersachsen
DE

00-0B-1C (hex) SIBCO bv
000B1C (base 16) SIBCO bv
Schoonhout 46
Etten-Leur NB 4872 ME
NL

00-0B-17 (hex) MKS Instruments
000B17 (base 16) MKS Instruments
651 Lowell
Street
Methuen MA 01844
US

00-0B-37 (hex) MANUFACTURE DES MONTRES ROLEX SA
000B37 (base 16) MANUFACTURE DES MONTRES ROLEX SA
LA HAUTE-ROUTE 82
BIEL-BIENNE BE 2502
CH

00-0A-FB (hex) Ambri Limited
000AFB (base 16) Ambri Limited
126 Greville Street
Chatswood NSW 2067
AU

00-0B-2D (hex) Danfoss Inc.
000B2D (base 16) Danfoss Inc.
7941 Corporate Dr
Baltimore MD 21236
US

00-0A-9A (hex) Aiptek International Inc
000A9A (base 16) Aiptek International Inc
No 5-1 Innovation Rd 1
Hsin-Chu 300
TW

00-0A-94 (hex) ShangHai cellink CO., LTD
000A94 (base 16) ShangHai cellink CO., LTD
C3 MeiLong ZhongXin Industrial Park,No.1
ShangHai 200237
US

00-0A-97 (hex) SONICblue, Inc.
000A97 (base 16) SONICblue, Inc.
2841 Mission College Blvd.
Santa Clara CA 95054
US

00-0A-92 (hex) Presonus Corporation
000A92 (base 16) Presonus Corporation
7257 Florida
Blvd.
Baton Rouge Louisiana 70806
US

00-0A-85 (hex) PLAT'C2,Inc
000A85 (base 16) PLAT'C2,Inc
2-3-6 SOTOKANDA
CHIYODA-KU TOKYO 101-0021
JP

00-0A-83 (hex) SALTO SYSTEMS S.L.
000A83 (base 16) SALTO SYSTEMS S.L.
Arkotz, 9
Polígonoo Lanbarren Oiartzun 20180

ES

00-0A-86 (hex) Lenze
000A86 (base 16) Lenze
PO box 101352
Hameln Lower Saxony 31763
DE

00-0A-B8 (hex) Cisco Systems, Inc
000AB8 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0A-A3 (hex) SHIMAFUJI ELECTRIC CO.,LTD.
000AA3 (base 16) SHIMAFUJI ELECTRIC CO.,LTD.
Daihyaku-seimei Kamata Bldg.3F
Tokyo 144-0051
JP

00-0A-A7 (hex) FEI Electron Optics
000AA7 (base 16) FEI Electron Optics
Achtseweg Noord 5
Eindhoven 5651GG
NL

00-0A-A6 (hex) Hochiki Corporation
000AA6 (base 16) Hochiki Corporation
246, TSURUMA
MACHIDA TOKYO 194-8577
JP

00-0A-58
(hex) Freyer & Siegel Elektronik GmbH & Co. KG
000A58 (base 16) Freyer & Siegel Elektronik GmbH & Co. KG
Neuendorfstraße 18 b
Hennigsdorf Brandenburg 16761
DE

00-0A-4E (hex) UNITEK Electronics INC.
000A4E (base 16) UNITEK Electronics INC.
1-18-4
Ohta-ku Tokyo 143-0016
US

00-0A-3D (hex) Elo Sistemas Eletronicos S.A.
000A3D (base 16) Elo Sistemas Eletronicos S.A.
Rua Edu Chaves, 547

Porto Alegre RS 90.240-620
BR

00-0A-46 (hex) ARO WELDING TECHNOLOGIES SAS
000A46 (base 16) ARO WELDING TECHNOLOGIES SAS
1, avenue de Tours
Chateau du Loir sarthe 72500
FR

00-0A-62 (hex) Crinis Networks, Inc.
000A62 (base 16) Crinis Networks, Inc.
2099 N. Collins Blvd, Suite 200
Richardson TX 75080
US

00-0A-6A (hex) SVM Microwaves s.r.o.
000A6A (base 16) SVM Microwaves s.r.o.
U Mrazovky 5
Praha 5 15000
CZ

00-0A-66 (hex) MITSUBISHI ELECTRIC SYSTEM & SERVICE CO.,LTD.
000A66
(base 16) MITSUBISHI ELECTRIC SYSTEM & SERVICE CO.,LTD.
1-4-13 OOYODONAKA,KITA-KU
OSAKA 531-0076
JP

00-0A-50 (hex) REMOTEK CORPORATION
000A50 (base 16) REMOTEK CORPORATION
6F-6, No 77, Sec 1, HSIN TAI WU ROAD,
HSI-CHIH TAIPEI HSIEN 221
TW

00-0A-70 (hex) MPLS Forum
000A70 (base 16) MPLS Forum
39355 California Street
Fremont CA 94538
US

00-0A-72 (hex) STEC, INC.
000A72 (base 16) STEC, INC.
3001 Daimler Street
Santa Ana CA 92705
US

00-0A-71 (hex) Avrio Technologies, Inc
000A71 (base 16) Avrio Technologies, Inc

2655 A Park Center Drive
Simi Valley CA 91356
US

00-0A-64 (hex) Eracom Technologies
000A64 (base 16) Eracom Technologies
28 Greg Chappell Drive
Burleigh Heads Qld 4220
AU

00-0A-BF (hex) HIROTA SS
000ABF (base 16) HIROTA SS
Matukawa-Kougyoudanchi
Suzaka-shi Nagano 382-0005
JP

00-0A-BC (hex) Seabridge Ltd.
000ABC (base 16) Seabridge
Ltd.
3 Hanagar St.
Hod-Hasharon Israel 45241
IL

00-0A-AC (hex) TerraTec Electronic GmbH
000AAC (base 16) TerraTec Electronic GmbH
Herrenpfad 38
Nettetal 41334
DE

00-0A-3F (hex) Data East Corporation
000A3F (base 16) Data East Corporation
4-41-10 Minami-Ogikubo
Suginami-ku TOKYO 167-0052
JP

00-0A-31 (hex) HCV Consulting
000A31 (base 16) HCV Consulting
P O Box 3692
Queensland 4212
AU

00-42-52 (hex) RLX Technologies
004252 (base 16) RLX Technologies
25231 Grograns Mill Rd
The Woodlands Tx 77380
US

00-0A-20 (hex) SVA Networks, Inc.

000A20 (base 16) SVA Networks, Inc.
840 F Ave., Suite 104
Plano TX 75074
US

00-0A-0C (hex) Scientific Research Corporation
000A0C (base 16) Scientific Research Corporation
2300 Windy Ridge Parkway
Atlanta GA 30339
US

00-09-F6 (hex) Shenzhen Eastern Digital Tech Ltd.
0009F6 (base 16) Shenzhen
Eastern Digital Tech Ltd.
Shenzhen Futian Chegongmiao Tairan
Shenzhen Guangdong 518048
CN

00-09-B9 (hex) Action Imaging Solutions
0009B9 (base 16) Action Imaging Solutions
Kings Hall, St Ives Business Park
Huntingdon Cambridgeshire PE27 4WY
GB

00-09-AC (hex) LANVOICE
0009AC (base 16) LANVOICE
1364-39 SeochoDong, #201 Jihun Bldg
Seoul 137-072
KR

00-09-B1 (hex) Kanematsu Electronics, Ltd.
0009B1 (base 16) Kanematsu Electronics, Ltd.
17-5, Kyobashi 2-chome
Chuo-ku Tokyo 104-8338
JP

00-09-B0 (hex) Onkyo Technology K.K.
0009B0 (base 16) Onkyo Technology K.K.
Lux Building (5th floor),1-1-41 Kawamata
Higashiosaka City Osaka 577-0063
JP

00-0A-24 (hex) Octave Communications
000A24 (base 16) Octave Communications
85 Northwest Boulevard
Nashua NH 03063
US

00-0A-19 (hex) Valere Power, Inc.
000A19 (base 16) Valere Power, Inc.
661 N. Plano Rd.
Richardson
Texas 75081
US

00-0A-11 (hex) ExPet Technologies, Inc
000A11 (base 16) ExPet Technologies, Inc
6F, Kyonggi Small Business Center
Suwon, Kyonggi-do, 442-270 442-770
KR

00-0A-0F (hex) Ilryung Telesys, Inc
000A0F (base 16) Ilryung Telesys, Inc
Ilryung bldg, 34-2, Cheonho-dong
SEOUL 134-861
KR

00-0A-01 (hex) SOHOware, Inc.
000A01 (base 16) SOHOware, Inc.
3050 Coronado Drive
Santa Clara CA 95054
US

00-09-EE (hex) MEIKYO ELECTRIC CO.,LTD
0009EE (base 16) MEIKYO ELECTRIC CO.,LTD
Tokyo Ferrite Building, 1-1-14 Tabatashinmachi
Tokyo Kita-ku 114-0012
JP

00-09-EC (hex) Daktronics, Inc.
0009EC (base 16) Daktronics, Inc.
315 32nd Ave
Brookings SD 57006
US

00-09-E7 (hex) ADC Techonology
0009E7 (base 16) ADC Techonology
Sakae Members Office Bld. 4-16-8, Sakae,
Nagoya Aichi 4600008
JP

00-09-E0 (hex) XEMICS S.A.
0009E0 (base 16) XEMICS S.A.
Rue
de la Maladiere 71
CH-2007 Neuchatel Neuchatel 2007

CH

00-09-CA (hex) iMaxNetworks(Shenzhen)Limited.
0009CA (base 16) iMaxNetworks(Shenzhen)Limited.
4/B,South Bldg of 29th,South District of
Shenzhen GuangDong 518057
CN

00-09-CF (hex) iAd GmbH
0009CF (base 16) iAd GmbH
Unterschlauersbacher Hauptstraße 10
Grosshabersdorf Bavaria 90613
DE

00-09-C1 (hex) PROCES-DATA A/S
0009C1 (base 16) PROCES-DATA A/S
Navervej 8
Silkeborg DK-8600
DK

00-09-BB (hex) MathStar, Inc.
0009BB (base 16) MathStar, Inc.
5900 Green Oak Drive
Minneapolis MN 55343
US

00-09-E5 (hex) Hottinger Brüel & Kjaer GmbH
0009E5 (base 16) Hottinger Brüel & Kjaer GmbH
Im Tiefen See 45
Darmstadt D-64293
DE

00-09-DE (hex) Samjin Information & Communications Co., Ltd.
0009DE (base 16) Samjin Information & Communications Co., Ltd.
MajangMyun DukPyungRi 235-2
Ichon KyongGi 467-812
KR

00-09-99
(hex) CP GEORGES RENAULT
000999 (base 16) CP GEORGES RENAULT
38 Rue Bobby Sands
44800 Saint Herblain
FR

00-09-94 (hex) Cronyx Engineering
000994 (base 16) Cronyx Engineering
Marshala Sokolovskogo str. 4

Moscow 123063
RU

00-09-88 (hex) Nudian Electron Co., Ltd.
000988 (base 16) Nudian Electron Co., Ltd.
797-28 Bangbae-Dong, Seocho-Gu
Seoul 137-060
KR

00-09-8E (hex) ipcas GmbH
00098E (base 16) ipcas GmbH
Wetterkreuz 17
Erlangen Bavaria 91058
DE

00-09-3F (hex) Double-Win Enterpirse CO., LTD
00093F (base 16) Double-Win Enterpirse CO., LTD
NO.300, Sec 1, Chung Feng Rd.
Ping Chen City Taoyuan Hsien 324
TW

00-09-3C (hex) Jacques Technologies P/L
00093C (base 16) Jacques Technologies P/L
268 Montague Rd
West End Queensland 4101
AU

00-09-35 (hex) Sandvine Incorporated
000935 (base 16) Sandvine Incorporated
170 Columbia St. W.
Waterloo
ON N2L 3L3
CA

00-09-36 (hex) Ipetronik GmbH & Co. KG
000936 (base 16) Ipetronik GmbH & Co. KG
Im Rollfeld 28
Baden-Baden Baden-Württemberg 76532
DE

00-09-60 (hex) YOZAN Inc.
000960 (base 16) YOZAN Inc.
YOZAN Bld.,3-5-18, Kitazawa
Setagaya-ku Tokyo 155-0031
JP

00-09-56 (hex) Network Systems Group, Ltd. (NSG)
000956 (base 16) Network Systems Group, Ltd. (NSG)

39 Kirpichnaya St., Suite 1302
Moscow 105187
RU

00-09-63 (hex) Dominion Lasercom Inc.
000963 (base 16) Dominion Lasercom Inc.
1716 Briarcrest Dr. Ste. 210
Bryan TX 77802
US

00-09-66 (hex) TRIMBLE EUROPE BV
000966 (base 16) TRIMBLE EUROPE BV
Meerheide 45
Eersel DZ 5521
NL

00-09-68 (hex) TECHNOVENTURE, INC.
000968 (base 16) TECHNOVENTURE, INC.
P. O. Box 5641
Pasadena Texas 77508-5641
US

00-09-61 (hex) Switchgear and Instrumentation Ltd
000961 (base 16) Switchgear and Instrumentation
Ltd
Ripley Road
Bradford West Yorkshire BD4 7EH
GB

00-09-7B (hex) Cisco Systems, Inc
00097B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-09-79 (hex) Advanced Television Systems Committee, Inc.
000979 (base 16) Advanced Television Systems Committee, Inc.
1750 K Street NW
Washington DC 20006
US

00-09-AB (hex) Netcontrol Oy
0009AB (base 16) Netcontrol Oy
Karvaamokuja 3
Helsinki FIN 00380
FI

00-09-9D (hex) Haliplex Communications

00099D (base 16) Haliplex Communications
PO Box 147
Mooroolbark Vic 3138
AU

00-09-9E (hex) Testech, Inc.
00099E (base 16) Testech, Inc.
Bundang-Technopark, C-Dong, 702-Ho, #145
Sungnam-City Kyungki-Do 463-070
KR

00-09-48 (hex) Vista Control Systems, Corp.
000948 (base 16) Vista Control Systems, Corp.
2001 West Melinda Lane
Phoenix AZ 85027
US

00-09-49 (hex) Glyph Technologies Inc.
000949
(base 16) Glyph Technologies Inc.
735 W. Clinton Street
Ithaca NY 14850
US

00-09-46 (hex) Cluster Labs GmbH
000946 (base 16) Cluster Labs GmbH
Dauerwaldweg 1
Berlin Berlin 14055
DE

00-09-37 (hex) Inventec Appliance Corp
000937 (base 16) Inventec Appliance Corp
113, Wugung 1 RD., WuKu Industrial nPark
Taipei
TW

00-09-7C (hex) Cisco Systems, Inc
00097C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-08-DE (hex) 3UP Systems
0008DE (base 16) 3UP Systems
6 Results Way
Cupertino CA 95014
US

00-08-E0 (hex) ATO Technology Ltd.
0008E0 (base 16) ATO Technology Ltd.
Rm. 1314-1346, Block B1, Yau Tong Ind. C
Hong Kong
HK

00-08-E4 (hex) Envenergy Inc
0008E4 (base 16) Envenergy Inc
6307 Carpinteria Ave
Carpinteria CA 93013
US

00-08-E3 (hex) Cisco Systems, Inc
0008E3 (base 16) Cisco Systems, Inc
80
West Tasman Drive
San Jose CA 94568
US

00-08-E5 (hex) IDK Corporation
0008E5 (base 16) IDK Corporation
6-7-10
Yamato Kanagawa 242-0007
JP

00-08-D9 (hex) Mitadenshi Co.,LTD
0008D9 (base 16) Mitadenshi Co.,LTD
1-8-6 Furuichi Asaminamiku
Hiroshima 731-0123
JP

00-08-D5 (hex) Vanguard Networks Solutions, LLC
0008D5 (base 16) Vanguard Networks Solutions, LLC
25 Forbes Boulevard
Foxboro MA 02035
US

00-09-00 (hex) TMT
000900 (base 16) TMT
11 Kiryat Mada, POB 45199
Jerusalem 91450
IL

00-08-FD (hex) BlueKorea Co., Ltd.
0008FD (base 16) BlueKorea Co., Ltd.
3F, sejong Building, 379-15, Seokyo-Dong
Seoul 121-839
KR

00-08-F8 (hex) UTC CCS
0008F8 (base 16) UTC CCS
791 Commerce Blvd
Boca Raton FL 33497
US

00-08-AE (hex) PacketFront Network Products AB
0008AE (base 16) PacketFront Network Products AB
PO 1217
Kistagangen 2, IV Kista
Stockholm SE -16428
SE

00-08-A7 (hex) iLogic Inc.
0008A7 (base 16) iLogic Inc.
Rm#318, TechnoComplex Bldg., 126-16, 5-g
Seoul 136-701
KR

00-08-C3 (hex) Contex A/S
0008C3 (base 16) Contex A/S
Svanevang 2
Allerod DK 3450
DK

00-08-BC (hex) Ilevo AB
0008BC (base 16) Ilevo AB
Box 1561
Karlstad Värmland S-651 21
SE

00-08-BD (hex) TEPG-US
0008BD (base 16) TEPG-US
100 Simplex Drive
Westminster MA 01441
US

00-09-0E (hex) Helix Technology Inc.
00090E (base 16) Helix Technology Inc.
5F, No. 6, Sec 1, Jung-Shing Rd., Wugu-S
Taipei 248
TW

00-08-CD (hex) With-Net Inc
0008CD (base 16) With-Net Inc
4FL B&B B/D 1403-4
Anyang Kyonggi 431-061

US

00-08-CC (hex) Remotec, Inc.
0008CC (base 16) Remotec, Inc.
114 Union Valley Road
Oakridge TN 37830
US

00-08-D1 (hex) KAREL INC.
0008D1 (base 16) KAREL INC.
ORGANIZE SANAYI BOLGESI
ANKARA
06935
TR

00-09-2A (hex) MYTECS Co.,Ltd.
00092A (base 16) MYTECS Co.,Ltd.
1-12-39, Taishidou
Setagaya-ku Tokyo 154-0004
JP

00-09-25 (hex) VSN Systemen BV
000925 (base 16) VSN Systemen BV
Keizersveld 83
Venray Limburg 5803 AP
NL

00-08-F3 (hex) WANY
0008F3 (base 16) WANY
CEEI Cap Alpha
Montpellier Herault 34940
FR

00-09-13 (hex) SystemK Corporation
000913 (base 16) SystemK Corporation
238-9 Higashi 1, Kita 15, Higashi-ku
Sapporo Hokkaido 065-0015
JP

00-08-23 (hex) Texa Corp.
000823 (base 16) Texa Corp.
Nara Bldg. 3F, 2-2-8 Shin-Yokohama,
222-0033
JP

00-08-28 (hex) Koei Engineering Ltd.
000828 (base 16) Koei Engineering Ltd.
3-40, 5-Chome

Osaku 547-0026
JP

00-08-2D (hex) Indus Teqsite Private Limited
00082D (base 16) Indus Teqsite Private Limited
#7, Arya Gowder Road,
Tamil Nadu 600033
IN

00-08-20 (hex) Cisco
Systems, Inc
000820 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-08-24 (hex) Nuance Document Imaging
000824 (base 16) Nuance Document Imaging
8390 Mayrand Street
Montreal Quebec H4P 2C9
CA

00-08-14 (hex) TIL Technologies
000814 (base 16) TIL Technologies
Europark DePichaury, BAT 9

FR

00-08-69 (hex) Command-e Technology Co.,Ltd.
000869 (base 16) Command-e Technology Co.,Ltd.
Suite 1108, Zhongsheng Mansion,
Beijing 100038
CN

00-08-62 (hex) NEC Eluminant Technologies, Inc.
000862 (base 16) NEC Eluminant Technologies, Inc.
14700 Avion Parkway
Chantilly VA 20151
US

00-08-61 (hex) SoftEnergy Co., Ltd.
000861 (base 16) SoftEnergy Co., Ltd.
346 Sangwangsipli-Dong,

KR

00-08-4F (hex) Qualstar Corporation
00084F (base 16) Qualstar Corporation

3990B Heritage Oak Court
Simi Valley CA 93063
US

00-08-54
(hex) Netronix, Inc.
000854 (base 16) Netronix, Inc.
3F-1, No. 31, Hsin-Tai Road,

TW

00-08-92 (hex) EM Solutions
000892 (base 16) EM Solutions
101 Hyde Rd
Yeronga Brisbane, QLD 4104
AU

00-08-8C (hex) Quanta Network Systems Inc.
00088C (base 16) Quanta Network Systems Inc.
13, 13F, Sec. 2, Pei-Tou Rd
Taipei 112
TW

00-08-8A (hex) Minds@Work
00088A (base 16) Minds@Work
15550 Rockfield Blvd. Suite C
Irvine CA 92618
US

00-08-87 (hex) Maschinenfabrik Reinhausen GmbH
000887 (base 16) Maschinenfabrik Reinhausen GmbH
Falkensteinstraße 8
Regensburg Bavaria 93059
DE

00-08-77 (hex) Liebert-Hiross Spa
000877 (base 16) Liebert-Hiross Spa
Via Leonardo da Vinci 8
Piove di Sacco Z.I. Tognana 35020
IT

00-08-7B (hex) RTX Telecom A/S
00087B (base 16) RTX Telecom A/S
Stroemmen 6

DK

00-08-5C (hex) Shanghai Dare Technologies Co. Ltd.

00085C
(base 16) Shanghai Dare Technologies Co. Ltd.
23F, China Merchants Tower,
Pudong New Area, Shanghai
CN

00-08-2C (hex) Homag AG
00082C (base 16) Homag AG
Abt. Ess-Mp., Homag Str. 3-5

DE

00-08-21 (hex) Cisco Systems, Inc
000821 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-08-22 (hex) InPro Comm
000822 (base 16) InPro Comm
11F, No. 93 Shuei-Yuan Street

TW

00-08-1D (hex) Ipsil, Incorporated
00081D (base 16) Ipsil, Incorporated
7945 MacArthur Blvd.
Cabin John MD 20818
US

00-08-76 (hex) SDSystem
000876 (base 16) SDSystem
613,Hyundai I Valley,223-12,
Seongnam Gyeonggi-Do 462-807
KR

00-08-70 (hex) Rasvia Systems, Inc.
000870 (base 16) Rasvia Systems, Inc.
3255-3 Scott Blvd.
Santa Clara CA 95054
US

00-08-6E (hex) Hyglo AB
00086E (base 16) Hyglo AB
Vastberga alle 60

SE

00-08-6C
(hex) Plasmon LMS
00086C (base 16) Plasmon LMS
4425 ArrowsWest Drive
Colorado Springs CO 80907
US

00-08-68 (hex) PurOptix
000868 (base 16) PurOptix
1945 Camino Vida Roble
Carlsbad CA 92008
US

00-08-99 (hex) Netbind, Inc.
000899 (base 16) Netbind, Inc.
5 Marine View Plaza
Hoboken NJ 07030
US

00-08-A0 (hex) Stotz Feinmesstechnik GmbH
0008A0 (base 16) Stotz Feinmesstechnik GmbH
Hermann-Dreher Str. 6
Gerlingen 70839
DE

00-08-91 (hex) Lyan Inc.
000891 (base 16) Lyan Inc.
5F-1, NO.51, SEC.2, KEELUNG RD.
TAIPEI 110
TW

00-08-03 (hex) Cos Tron
000803 (base 16) Cos Tron
4F Boolim B/D, 1431-22,
Anyang 431-061
KR

00-08-05 (hex) Techno-Holon Corporation
000805 (base 16) Techno-Holon Corporation
3-19-2, Takamatsu-cho
Tokyo 190-0011
JP

00-07-FD (hex) LANergy Ltd.
0007FD (base 16) LANergy Ltd.
Rudloe Manor

GB

00-07-FE
(hex) Rigaku Corporation
0007FE (base 16) Rigaku Corporation
3-9-12, Matsubara-cho
Tokyo 196-8666
JP

00-07-E4 (hex) SoftRadio Co., Ltd.
0007E4 (base 16) SoftRadio Co., Ltd.
2F, Dong-Bok B/D 645-18
Seoul
KR

00-07-73 (hex) Ascom Powerline Communications Ltd.
000773 (base 16) Ascom Powerline Communications Ltd.
Belpstr. 37

CH

00-07-6C (hex) Daehanet, Inc.
00076C (base 16) Daehanet, Inc.
#8-2 Chung Jung Rd 2- Ga
Seoul 120-012
KR

00-07-5D (hex) Celleritas Inc.
00075D (base 16) Celleritas Inc.
c/o Celeritas Ltd.

IL

00-07-65 (hex) Jade Quantum Technologies, Inc.
000765 (base 16) Jade Quantum Technologies, Inc.
5F, No. 116, Hsien Fu Rd.,

TW

00-07-54 (hex) Xyterra Computing, Inc.
000754 (base 16) Xyterra Computing, Inc.
14505 Hayden Rd.,
Scottsdale AZ 85260-6953
US

00-07-C7 (hex) Synectics Systems Limited
0007C7 (base
16) Synectics Systems Limited
3 Acorn Business Park

S8 OTB
GB

00-07-BF (hex) Armillaire Technologies, Inc.
0007BF (base 16) Armillaire Technologies, Inc.
10411 Motor City Drive
Bethesda MD 20817
US

00-07-BB (hex) Candera Inc.
0007BB (base 16) Candera Inc.
673 South Milpitas Blvd.
Milpitas CA 95035
US

00-07-BD (hex) Radionet Ltd.
0007BD (base 16) Radionet Ltd.
Keilaranta 6

FI

00-07-C4 (hex) JEAN Co. Ltd.
0007C4 (base 16) JEAN Co. Ltd.
7F, 2, Rei Kuang Road,
Taipei
TW

00-07-D9 (hex) Splicecom
0007D9 (base 16) Splicecom
Little Gillions, The Green
Herts WD3 3HY
GB

00-07-DA (hex) Neuro Telecom Co., Ltd.
0007DA (base 16) Neuro Telecom Co., Ltd.
2F Misung B/D, 938-7
Kyunggi-do
KR

00-07-CD (hex) Kumoh Electronic Co, Ltd
0007CD (base 16) Kumoh Electronic Co, Ltd
154-2 Chunui-dong
Gyeonggi-do
KR

00-07-CF
(hex) Anoto AB
0007CF (base 16) Anoto AB

Solvegatan 41

SE

00-07-D2 (hex) Logopak Systeme GmbH & Co. KG
0007D2 (base 16) Logopak Systeme GmbH & Co. KG
Dorfstraße 40

DE

00-07-C9 (hex) Technol Seven Co., Ltd.
0007C9 (base 16) Technol Seven Co., Ltd.
25-16 Tobehon-cho, Nisi-ku,

JP

00-07-77 (hex) Motah Ltd.
000777 (base 16) Motah Ltd.
4-4-5 Koishikawa
112-0002
JP

00-07-80 (hex) Bluegiga Technologies OY
000780 (base 16) Bluegiga Technologies OY
P.O. BOX 120
FIN-02631 Espoo
FI

00-07-6E (hex) Sinetica Corporation Limited
00076E (base 16) Sinetica Corporation Limited
Willow House
Monmouthshire Usk NP15 1HY
GB

00-07-6F (hex) Synoptics Limited
00076F (base 16) Synoptics Limited
Beacon House, Nuffield Road,

GB

00-07-57 (hex) Topcall International AG
000757 (base 16) Topcall International AG
Talpagasse 1

AT

00-07-4C

(hex) Beicom Inc.
00074C (base 16) Beicom Inc.
114 King Street
Alexandria VA 22314
US

00-07-53 (hex) Beijing Qxcomm Technology Co., Ltd.
000753 (base 16) Beijing Qxcomm Technology Co., Ltd.
4F Tower B, TongTai Building No. 33,
Beijing 100032
CN

00-07-4D (hex) Zebra Technologies Corp.
00074D (base 16) Zebra Technologies Corp.
333 Corporate Woods Parkway
Vernon Hills IL 60061
US

00-07-9C (hex) Golden Electronics Technology Co., Ltd.
00079C (base 16) Golden Electronics Technology Co., Ltd.
No. 29, 21st Road,

TW

00-07-B7 (hex) Samurai Ind. Prods Eletronicos Ltda
0007B7 (base 16) Samurai Ind. Prods Eletronicos Ltda
R-Nebraska, 443 S/2 2o Andar
04560-011
BR

00-07-B0 (hex) Office Details, Inc.
0007B0 (base 16) Office Details, Inc.
25 Ottawa
Grand Rapids MI 49503
US

00-07-A5 (hex) Y.D.K Co. Ltd.
0007A5 (base 16) Y.D.K Co. Ltd.
1705,
Oshitate, Inagi-City,

JP

00-07-C3 (hex) Thomson
0007C3 (base 16) Thomson
5-7, rue Salomon de Rothschild
92150
FR

00-07-B6 (hex) Telecom Technology Ltd.
0007B6 (base 16) Telecom Technology Ltd.
Docklands Innovation Park
Dublin 3
IE

00-07-8E (hex) Garz & Fricke GmbH
00078E (base 16) Garz & Fricke GmbH
Schlachthofstrasse 20
Hamburg Hamburg 21079
DE

00-07-3F (hex) Woojyun Systec Co., Ltd.
00073F (base 16) Woojyun Systec Co., Ltd.
4F Han Yang B/D, Yoido-dong
Seoul 150-010
KR

00-07-28 (hex) Neo Telecom
000728 (base 16) Neo Telecom
East Building 9F, 1T
Songpa-gu, Seoul
KR

00-07-2C (hex) Fabricom
00072C (base 16) Fabricom
Rue Gatti De Gamond 254

BE

00-07-2D (hex) CNSystems
00072D (base 16) CNSystems
Baumkircherstrasse 1

AT

00-07-2F (hex) Intransa, Inc.
00072F (base 16) Intransa, Inc.
2670
Zanker
San Jose CA 95134
US

00-07-32 (hex) AAEON Technology Inc.
000732 (base 16) AAEON Technology Inc.
5F, #135, Lane 235, Pao Chiao Road
Taipei

TW

00-07-25 (hex) Bematech International Corp.
000725 (base 16) Bematech International Corp.
5895 Shiloh Road
Alpharetta GA 30005
US

00-07-23 (hex) ELCON Systemtechnik GmbH
000723 (base 16) ELCON Systemtechnik GmbH
Obere Hauptstraße10

DE

00-07-1D (hex) Satelsa Sistemas Y Aplicaciones De Telecomunicaciones, S.A.
00071D (base 16) Satelsa Sistemas Y Aplicaciones De Telecomunicaciones, S.A.
c/, Alejandro Moran, 56

ES

00-07-20 (hex) Trutzschler GmbH & Co. KG
000720 (base 16) Trutzschler GmbH & Co. KG
Duvenstraße 82-92

DE

00-07-24 (hex) Telemax Co., Ltd.
000724 (base 16) Telemax Co., Ltd.
6th Fl. Sungwoo B/D, 1099-1
Kyungki-Do, 435-040
KR

00-07-1B (hex) CDVI Americas Ltd
00071B (base
16) CDVI Americas Ltd
1637 Autoroute Laval West
Laval Quebec H7L 3W3
CA

00-06-C9 (hex) Technical Marketing Research, Inc.
0006C9 (base 16) Technical Marketing Research, Inc.
Shin Nihon Gijutsu Bldg.
Tokyo 105-0012 105-0012
JP

00-06-C8 (hex) Sumitomo Metal Micro Devices, Inc.
0006C8 (base 16) Sumitomo Metal Micro Devices, Inc.
1, Higashimukojima Higashino-cho

JP

00-06-C0 (hex) United Internetworks, Inc.
0006C0 (base 16) United Internetworks, Inc.
5072 North 300 West, Suite 2N
Provo UT 84604
US

00-06-D7 (hex) Cisco Systems, Inc
0006D7 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-06-D5 (hex) Diamond Systems Corp.
0006D5 (base 16) Diamond Systems Corp.
8430-D Central Ave.
Newark CA 94560
US

00-05-EA (hex) Rednix
0005EA (base 16) Rednix
502, Dong-A Resort Officetel
Taejon 305-709
KR

00-06-E0 (hex) MAT
Co., Ltd.
0006E0 (base 16) MAT Co., Ltd.
864-3 Kwanyang-dong
Kyunggi-do 431-060
KR

00-07-15 (hex) General Research of Electronics, Inc.
000715 (base 16) General Research of Electronics, Inc.
3-12-17, Mita, Minato-ku
Tokyo 108-0073
JP

00-06-FD (hex) Comjet Information Systems Corp.
0006FD (base 16) Comjet Information Systems Corp.
7Fl., No. 103, Fen Liao Street

TW

00-06-F9 (hex) Mitsui Zosen Systems Research Inc.
0006F9 (base 16) Mitsui Zosen Systems Research Inc.

11-1, Uno 1-chome
706-0011
JP

00-06-F1 (hex) Optillion
0006F1 (base 16) Optillion
Kronborgsgr.9

SE

00-07-37 (hex) Soriya Co. Ltd.
000737 (base 16) Soriya Co. Ltd.
2, 8th Floor Hanshin B/O, 136-1,
Seoul,
KR

00-07-34 (hex) ONStor, Inc.
000734 (base 16) ONStor, Inc.
130-B Knowles Drive
Los Gatos CA 95032
US

00-06-A9 (hex) Universal Instruments Corp.
0006A9
(base 16) Universal Instruments Corp.
PO Box 825
Binghamton NY 13902
US

00-06-9E (hex) UNIQA, Inc.
00069E (base 16) UNIQA, Inc.
477 Valley Way
Milpitas CA 95035
US

00-06-98 (hex) egnite GmbH
000698 (base 16) egnite GmbH
Erinstraße 9
Castrop-Rauxel D-44575
DE

00-06-9C (hex) Transmode Systems AB
00069C (base 16) Transmode Systems AB
Jakobsdalsvagen 17
Hägersten SE-126 53
SE

00-06-86 (hex) ZARDCOM Co., Ltd.

000686 (base 16) ZARDCOM Co., Ltd.
4F, 1548-1, Seocho Dong, Seocho-Gu
Seoul
KR

00-06-89 (hex) yLez Technologies Pte Ltd
000689 (base 16) yLez Technologies Pte Ltd
No. 1, Tannery Road, Cencon 1,

SG

00-06-81 (hex) Goepel Electronic GmbH
000681 (base 16) Goepel Electronic GmbH
Goeschwitzer Str. 58-60

DE

00-D0-B9 (hex) MICROTEK INTERNATIONAL, INC.
00D0B9 (base 16) MICROTEK INTERNATIONAL, INC.
NO. 6 INDUSTRY EAST
ROAD 3
TAIWAN 30077 TAIWAN 30077 R.O.C.
TW

00-D0-5F (hex) VALCOM, INC.
00D05F (base 16) VALCOM, INC.
1111 INDUSTRY AVENUE
ROANOKE VA 24013
US

00-06-75 (hex) Banderacom, Inc.
000675 (base 16) Banderacom, Inc.
9211 Waterford Centre Blvd.
Austin TX 78758
US

00-06-7B (hex) Toplink C&C Corporation
00067B (base 16) Toplink C&C Corporation
6F-15, No. 12, Lane 609, Sec. 5
Taipei Hsien 241
TW

00-06-70 (hex) Upponetti Oy
000670 (base 16) Upponetti Oy
Tykistokatu 4D

FI

00-06-49 (hex) 3M Deutschland GmbH
000649 (base 16) 3M Deutschland GmbH
Carl-Schurz-Str. 1
Neuss D-41453
DE

00-06-43 (hex) SONO Computer Co., Ltd.
000643 (base 16) SONO Computer Co., Ltd.
1F., No. 8, Alley 35, Lane 91,
Taipei
TW

00-06-3E (hex) Opthos Inc.
00063E (base 16) Opthos Inc.
590 Taylor Way
San Carlos CA 94070
US

00-06-3B (hex) Arcturus Networks
Inc.
00063B (base 16) Arcturus Networks Inc.
701 Evans Ave. - Suite 300
Toronto Ontario M9C 1A3
CA

00-06-B1 (hex) Sonicwall
0006B1 (base 16) Sonicwall
1160 Bordeaux Dr.
Sunnyvale CA 94089
US

00-06-AD (hex) KB Electronics Ltd.
0006AD (base 16) KB Electronics Ltd.
150 Bluewater Rd.
B4B 1G9
CA

00-06-AF (hex) Xalted Networks
0006AF (base 16) Xalted Networks
2901 Dallas Parkway
Plano TX 75093
US

00-06-A7 (hex) Primarion
0006A7 (base 16) Primarion
3450 Torrance Blvd.
Torrance CA 90503
US

00-06-18 (hex) DigiPower Manufacturing Inc.
000618 (base 16) DigiPower Manufacturing Inc.
No. 114, Floor 13, Sec. 1,
Taipei
TW

00-06-20 (hex) Serial System Ltd.
000620 (base 16) Serial System Ltd.
76 Playfair Road
367996
SG

00-06-17 (hex) Redswitch Inc.
000617 (base 16) Redswitch Inc.
1815 McCandless Drive
Milpitas CA 95035-8046
US

00-06-6F
(hex) Korea Data Systems
00066F (base 16) Korea Data Systems
170, Gongdan-Dong, Gumi-Si
Kyungbuk 730-030
KR

00-06-68 (hex) Vicon Industries Inc.
000668 (base 16) Vicon Industries Inc.
89 Arkay Drive
Hauppauge NY 11788
US

00-06-6D (hex) Compuprint S.P.A.
00066D (base 16) Compuprint S.P.A.
Via Martiri D'Italia 26

IT

00-06-26 (hex) MWE GmbH
000626 (base 16) MWE GmbH
Olbrichtstraße 21

DE

00-06-58 (hex) Helmut Fischer GmbH Institut für Elektronik und Messtechnik
000658 (base 16) Helmut Fischer GmbH Institut für Elektronik und Messtechnik
Industriestraße 21

DE

00-06-13 (hex) Kawasaki Microelectronics Incorporated
000613 (base 16) Kawasaki Microelectronics Incorporated
MTG B-5, 1-3, Nakase,
Mihama-ku Chiba 261-8501
JP

00-05-D3 (hex) eProduction Solutions, Inc.
0005D3 (base 16) eProduction Solutions, Inc.
22001 North
Park Drive
Kingwood TX 77339-3804
US

00-06-04 (hex) @Track Communications, Inc.
000604 (base 16) @Track Communications, Inc.
1155 Kas Dr.
Richardson TX 75081
US

00-06-06 (hex) RapidWAN, Inc.
000606 (base 16) RapidWAN, Inc.
2085 Hamilton Ave.
San Jose CA 95125
US

00-05-96 (hex) Genotech Co., Ltd.
000596 (base 16) Genotech Co., Ltd.
#308 Gunkook Bldg.,
Gumchon-Gu Seoul
KR

00-05-79 (hex) Universal Control Solution Corp.
000579 (base 16) Universal Control Solution Corp.
12843 Foothill Blvd.
Sylmar CA 91342
US

00-05-AE (hex) Mediaport USA
0005AE (base 16) Mediaport USA
17151 Newhope Ave. #202
Fountain Valley CA 92708
US

00-05-B0 (hex) Korea Computer Technology Co., Ltd.
0005B0 (base 16) Korea Computer Technology Co., Ltd.
KCT Bldg, 111-3 Yangjae-Dong,

KR

00-05-B2 (hex) Medison Co., Ltd.
0005B2 (base 16) Medison Co., Ltd.
997-4,
Saechi-Dong,
135-280
KR

00-05-97 (hex) Eagle Traffic Control Systems
000597 (base 16) Eagle Traffic Control Systems
8004 Cameron Road
Austin TX 78754
US

00-05-E1 (hex) Trellis Photonics, Ltd.
0005E1 (base 16) Trellis Photonics, Ltd.
P.O.B. 36

IL

00-05-E2 (hex) Creativ Network Technologies
0005E2 (base 16) Creativ Network Technologies
1755 St. Regis Suite 240
Quebec H9B-2M9
CA

00-05-C8 (hex) VERYTECH
0005C8 (base 16) VERYTECH
#402, Jang Young Shil Kwan,

KR

00-05-CB (hex) ROIS Technologies, Inc.
0005CB (base 16) ROIS Technologies, Inc.
6th F Changhyun B/D, 960-1
431-080
KR

00-06-03 (hex) Baker Hughes Inc.
000603 (base 16) Baker Hughes Inc.
2001 Rankin Rd.
Houston TX 77073
US

00-06-07 (hex) Omni Directional Control Technology Inc.
000607 (base 16) Omni Directional Control Technology Inc.

8F-2, No. 94, Pao-Chung Rd.
Taipei
Hsien,
TW

00-05-F7 (hex) Analog Devices, Inc.
0005F7 (base 16) Analog Devices, Inc.
Three Technology Way
Norwood MA 02062-2666
US

00-05-9C (hex) Kleinknecht GmbH, Ing. Büro
00059C (base 16) Kleinknecht GmbH, Ing. Büro
Bachstraße 30

DE

00-05-A2 (hex) CELOX Networks
0005A2 (base 16) CELOX Networks
940 West Port Plaza - Ste. #300
St. Louis MO 63146
US

00-05-AA (hex) Moore Industries International Inc.
0005AA (base 16) Moore Industries International Inc.
16650 Schoenborn St.
North Hills CA 91343
US

00-05-E7 (hex) Netrake an AudioCodes Company
0005E7 (base 16) Netrake an AudioCodes Company
3000 Technology Drive
Plano TX 75074
US

00-05-F4 (hex) System Base Co., Ltd.
0005F4 (base 16) System Base Co., Ltd.
475-22, BangBae 2 dong,

KR

00-05-B5 (hex) Broadcom Technologies
0005B5 (base 16) Broadcom Technologies
137-060
Secho-Gu
Seoul,
KR

00-05-8C (hex) Opentech Inc.
00058C (base 16) Opentech Inc.
6F, DongWon Bldg., 275
Seoul 137-130
KR

00-05-CD (hex) D&M Holdings Inc.
0005CD (base 16) D&M Holdings Inc.
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JP

00-05-2E (hex) Cinta Networks
00052E (base 16) Cinta Networks
3010 North First Street
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US

00-05-2F (hex) Leviton Network Solutions
00052F (base 16) Leviton Network Solutions
2222 222nd Street S.E.
Bothell WA 98021
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00-05-3B (hex) Harbour Networks Ltd., Co. Beijing
00053B (base 16) Harbour Networks Ltd., Co. Beijing
13/F, JiuLing Building, No. 21,
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00-05-56 (hex) 360 Systems
000556 (base 16) 360 Systems
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US

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000559 (base 16) Intracom S.A.
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Attika
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00-05-51
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000551 (base 16) F & S Elektronik Systeme GmbH
Untere Waldplaetze 23
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00-05-4D (hex) Brans Technologies, Inc.
00054D (base 16) Brans Technologies, Inc.
501 Boramae Academy Tower

KR

00-05-47 (hex) Starent Networks
000547 (base 16) Starent Networks
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US

00-05-4E (hex) Philips
00054E (base 16) Philips
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00-05-46 (hex) KDDI Network & Solultions Inc.
000546 (base 16) KDDI Network & Solultions Inc.
2-3-1, Nishishinjunku-ku,
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00-05-40 (hex) FAST Corporation
000540 (base 16) FAST Corporation
2791-5 Shimo-Tsuruma
242-0001
JP

00-05-3C (hex) XIRCOM
00053C (base 16) XIRCOM
2300 CORPORATE CENTER DR.
THOUSAND OAKS CA 91320
US

00-05-44 (hex) Valley Technologies, Inc.
000544
(base 16) Valley Technologies, Inc.
1006 West College Ave.
State College PA 16801
US

00-05-6B (hex) C.P. Technology Co., Ltd.
00056B (base 16) C.P. Technology Co., Ltd.
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221

TW

00-05-60 (hex) LEADER COMM.CO., LTD
000560 (base 16) LEADER COMM.CO., LTD
234, Komae-ri, Kiheung-eup,
449-900
KR

00-05-5E (hex) Cisco Systems, Inc
00055E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-05-7F (hex) Acqis Technology
00057F (base 16) Acqis Technology
1621 West El Camino Real
Mt. View CA 94040
US

00-05-73 (hex) Cisco Systems, Inc
000573 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-05-75 (hex) CDS-Electronics BV
000575 (base 16) CDS-Electronics BV
Mozart laan 330

NL

00-05-22 (hex) LEA*D Corporation, Inc.
000522 (base 16) LEA*D Corporation, Inc.
Advatech
Bldg.

IL

00-05-20 (hex) Smartronix, Inc.
000520 (base 16) Smartronix, Inc.
22685 Three Notch Rd.
California MD 20619
US

00-05-18 (hex) Jupiters Technology
000518 (base 16) Jupiters Technology
PO Box 12693

AU

00-05-0B (hex) SICOM Systems, Inc.
00050B (base 16) SICOM Systems, Inc.
4140 Skyron Drive
Doylestown PA 18901
US

00-05-05 (hex) Systems Integration Solutions, Inc.
000505 (base 16) Systems Integration Solutions, Inc.
3922 Coconut Palm Drive,
Tampa FL 33619
US

00-05-28 (hex) New Focus, Inc.
000528 (base 16) New Focus, Inc.
2630 Walsh Ave.
Santa Clara CA 95051
US

00-05-24 (hex) BTL System (HK) Limited
000524 (base 16) BTL System (HK) Limited
14/F., Blk. B, Vita Tower,
Aberdeen
HK

00-05-14 (hex) KDT Systems Co., Ltd.
000514 (base 16) KDT Systems Co., Ltd.
102-6, Chobu-Li, Mohyun-Myun,

KR

00-04-C4
(hex) Audiotonix Group Limited
0004C4 (base 16) Audiotonix Group Limited
Unit 10, Silverglade Business Park
Chessington Surrey KT9 2QL
GB

00-04-B7 (hex) AMB i.t. Holding
0004B7 (base 16) AMB i.t. Holding
Zuiderhoutlaan 4
PJ Haarlem 2012
NL

00-04-B9 (hex) S.I. Soubou, Inc.
0004B9 (base 16) S.I. Soubou, Inc.

4-2586-8
Tokorozawa Sitama 359-0047
JP

00-04-BB (hex) Bardac Corporation
0004BB (base 16) Bardac Corporation
40 Log Canoe Circle
Stevensville MD 21666
US

00-04-BC (hex) Giantec, Inc.
0004BC (base 16) Giantec, Inc.
4F, No. 3, Lane 123,
TAIWAN 231 TAIWAN 231 R.O.C.
TW

00-04-AF (hex) Digital Fountain, Inc.
0004AF (base 16) Digital Fountain, Inc.
600 Alabama St.
San Francisco CA 94110
US

00-04-9D (hex) Ipanema Technologies
00049D (base 16) Ipanema Technologies
28, Rue De La Redoute

FR

00-04-60 (hex) Knilink Technology,
Inc.
000460 (base 16) Knilink Technology, Inc.
10F, #96, Hsin Tai Wu Rd.,
TAIWAN
TW

00-04-8F (hex) TD Systems Corporation
00048F (base 16) TD Systems Corporation
100 Bearfoot Rd.
Hudson MA 01749
US

00-04-95 (hex) Tejas Networks India Limited
000495 (base 16) Tejas Networks India Limited
#58, 1st Main Road, J.P. Nagar,
Bangalore 560078
IN

00-04-D9 (hex) Titan Electronics, Inc.

0004D9 (base 16) Titan Electronics, Inc.
Rm 7, 11 Fl., No. 398,
Taoyuan Taoyuan TAIWAN
TW

00-04-D8 (hex) IPWireless, Inc.
0004D8 (base 16) IPWireless, Inc.
4 Landsowne Court
SN14 GRZ UK
GB

00-04-D6 (hex) Takagi Industrial Co., Ltd.
0004D6 (base 16) Takagi Industrial Co., Ltd.
Electronic Instrument Div.
418-0103 418-0103
JP

00-04-D1 (hex) Drew Technologies, Inc.
0004D1 (base 16) Drew Technologies, Inc.
3915 Research Park Dr
Ann Arbor MI 48108
US

00-04-B2
(hex) ESSEGI SRL
0004B2 (base 16) ESSEGI SRL
Via Del Cavaratori, 17

IT

00-04-B4 (hex) CIAC
0004B4 (base 16) CIAC
18 rue Joseph BARA

FR

00-04-A9 (hex) SandStream Technologies, Inc.
0004A9 (base 16) SandStream Technologies, Inc.
1955 Lakeway Dr.
Lewisville TX 75057
US

00-04-9C (hex) Surgient Networks, Inc.
00049C (base 16) Surgient Networks, Inc.
3520 Executive Center Drive
Austin TX 78731
US

00-04-EB (hex) Paxonet Communications, Inc.
0004EB (base 16) Paxonet Communications, Inc.
4046 Clipper Court
Fremont CA 94538
US

00-04-EF (hex) Polestar Corp.
0004EF (base 16) Polestar Corp.
RM #802 SeoGeon B/D, 1480,
Korea (ROK)
KR

00-80-87 (hex) OKI ELECTRIC INDUSTRY CO., LTD
008087 (base 16) OKI ELECTRIC INDUSTRY CO., LTD
10-3 SHIBAURA 4-CHOME

JP

00-04-D0 (hex) Softlink s.r.o.
0004D0 (base 16) Softlink s.r.o.
Tomkova
409
Czech Republic
CZ

00-04-BE (hex) OptXCon, Inc.
0004BE (base 16) OptXCon, Inc.
P.O. Box 13449
Research Triangle Park NC 27709-3449
US

00-04-C1 (hex) Cisco Systems, Inc
0004C1 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-04-6F (hex) Digitel S/A Industria Eletronica
00046F (base 16) Digitel S/A Industria Eletronica
R. Doutor Joao Ignacio, 1165
Zip: 90230.181
BR

00-04-69 (hex) Innocom, Inc.
000469 (base 16) Innocom, Inc.
655-2 Naebalsan-Dong
157-280 157-280 KOREA
KR

00-04-87 (hex) Cogency Semiconductor, Inc.
000487 (base 16) Cogency Semiconductor, Inc.
362 Terry Fox Drive, Suite 210

CA

00-04-68 (hex) Vivity, Inc.
000468 (base 16) Vivity, Inc.
3360 Mitchell Lane
Boulder CO 80301
US

00-04-FE (hex) Pelago Networks
0004FE (base 16) Pelago Networks
701 E. Plano Parkway - Ste. #205
Plano TX
75074
US

00-03-E1 (hex) Winmate Communication, Inc.
0003E1 (base 16) Winmate Communication, Inc.
9F,No.111-6,Shing-De Rd
Taipei 241
TW

00-03-E4 (hex) Cisco Systems, Inc
0003E4 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-03-DC (hex) Lexar Media, Inc.
0003DC (base 16) Lexar Media, Inc.
47421 Bayside Parkway
Fremont CA 94538
US

00-03-D8 (hex) iMPath Networks, Inc.
0003D8 (base 16) iMPath Networks, Inc.
1431 Merivale Rd.
CANADA K2E 1B9
CA

00-03-D5 (hex) Advanced Communications Co., Ltd.
0003D5 (base 16) Advanced Communications Co., Ltd.
2876-1 Ooka
Shizuoka 41-0022

JP

00-03-D6 (hex) RADVision, Ltd.
0003D6 (base 16) RADVision, Ltd.
24 Raul Wallenberg St.

IL

00-03-D4 (hex) Alloptic, Inc.
0003D4 (base 16) Alloptic, Inc.
6960 Koll Center Parkway
Pleasanton CA 94566
US

00-04-61 (hex) EPOX Computer
Co., Ltd.
000461 (base 16) EPOX Computer Co., Ltd.
11F, #346, Chung San Rd.
TAIWAN TAIWAN R.O.C.
TW

00-04-62 (hex) DAKOS Data & Communication Co., Ltd.
000462 (base 16) DAKOS Data & Communication Co., Ltd.
2nd Floor Bethel Building 324-1
Zip code: 137-130
TW

00-04-5F (hex) Avalue Technology, Inc.
00045F (base 16) Avalue Technology, Inc.
7F, 228, Lian-Cheng Road
TAIWAN TAIWAN R.O.C.
TW

00-04-56 (hex) Cambium Networks Limited
000456 (base 16) Cambium Networks Limited
Unit B2, Linhay Business Park,
Ashburton Devon TQ13 7UP
GB

00-04-58 (hex) Fusion X Co., Ltd.
000458 (base 16) Fusion X Co., Ltd.
#905 Hansol Techno Town
Zip 435-030
KR

00-04-46 (hex) CYZENTECH Co., Ltd.
000446 (base 16) CYZENTECH Co., Ltd.
601 Eunkyeong B/D 141-31,

135-876 KOREA
KR

00-04-4A (hex) iPolicy Networks, Inc.
00044A (base 16) iPolicy Networks, Inc.
47467 Fremont
Blvd.
Fremont CA 94538
US

00-04-40 (hex) cyberPIXIE, Inc.
000440 (base 16) cyberPIXIE, Inc.
68 E. Wacker Place,
Chicago IL 60601
US

00-04-3C (hex) SONOS Co., Ltd.
00043C (base 16) SONOS Co., Ltd.
#725 Pungsan Apt. Factory
Rep. of KOREA Zip Code: 411-815
KR

00-04-2C (hex) Minet, Inc.
00042C (base 16) Minet, Inc.
3F Se-A Venture Tower
KOREA
KR

00-04-2A (hex) Wireless Networks, Inc.
00042A (base 16) Wireless Networks, Inc.
2322 El Camino Real
San Mateo CA 94403
US

00-04-19 (hex) Fibercycle Networks, Inc.
000419 (base 16) Fibercycle Networks, Inc.
20 South Santa Cruz Ave.
Los Gatos CA 95030
US

00-04-1C (hex) ipDialog, Inc.
00041C (base 16) ipDialog, Inc.
1762 Technology Drive
San Jose CA 95110
US

00-03-CE (hex) ETEN Technologies, Inc.
0003CE (base 16) ETEN Technologies, Inc.

2F, No. 9, Lane 235, Pao-Chiao Rd.,
TAIWAN TAIWAN
R.O.C.
TW

00-03-C8 (hex) CML Emergency Services
0003C8 (base 16) CML Emergency Services
75 Boulevard la Technologies

CA

00-03-F1 (hex) Cicada Semiconductor, Inc.
0003F1 (base 16) Cicada Semiconductor, Inc.
811 Barton Springs Rd.
Austin TX 78704
US

00-03-ED (hex) Shinkawa Electric Co., Ltd.
0003ED (base 16) Shinkawa Electric Co., Ltd.
3-2-24 3 chome

JP

00-04-18 (hex) Teltronic S.A.U.
000418 (base 16) Teltronic S.A.U.
Poligono de Malpica

ES

00-03-70 (hex) NXTV, Inc.
000370 (base 16) NXTV, Inc.
5955 De Soto Ave, #160
Woodland Hills CA 91367
US

00-04-02 (hex) Nexsan Technologies, Ltd.
000402 (base 16) Nexsan Technologies, Ltd.
Parker Centre
Derby DE21 4SZ
GB

00-03-F7 (hex) Plast-Control GmbH
0003F7 (base 16) Plast-Control GmbH
Walter-Freitag-Str. 15

DE

00-03-FC (hex) Intertex Data AB

0003FC (base 16) Intertex
Data AB
Rissneleden 45

SE

00-03-EF (hex) Oneline AG
0003EF (base 16) Oneline AG
Steinfeldstraße 3

DE

00-04-4F (hex) Schubert System Elektronik Gmbh
00044F (base 16) Schubert System Elektronik Gmbh
Rudolf-Diesel-Str. 17

DE

00-03-55 (hex) TeraBeam Internet Systems
000355 (base 16) TeraBeam Internet Systems
14833 NE 87th St., Bldg. C
Redmond WA 98052
US

00-03-54 (hex) Fiber Logic Communications
000354 (base 16) Fiber Logic Communications
5F-3, No. 9, Prosperity Road One,
Hsinchu
TW

00-03-50 (hex) BTICINO SPA
000350 (base 16) BTICINO SPA
Via L. Manara, 4

IT

00-03-4E (hex) Pos Data Company, Ltd.
00034E (base 16) Pos Data Company, Ltd.
276-2, Seo-Hyun Dong,

KR

00-03-48 (hex) Norscan Instruments, Ltd.
000348 (base 16) Norscan Instruments, Ltd.
7 Terracon Place
R2J 4B3
CA

00-03-46 (hex) Hitachi
Kokusai Electric, Inc.
000346 (base 16) Hitachi Kokusai Electric, Inc.
1-6-10 Uchikanda

JP

00-03-44 (hex) Tietech.Co., Ltd.
000344 (base 16) Tietech.Co., Ltd.
2-13-1 Chikamatoori Minamiku

JP

00-03-43 (hex) Martin Professional A/S
000343 (base 16) Martin Professional A/S
Olof Palmes Alle 18

DK

00-03-C3 (hex) Micronik Multimedia
0003C3 (base 16) Micronik Multimedia
Brückenstraße 2

DE

00-03-C0 (hex) RFTNC Co., Ltd.
0003C0 (base 16) RFTNC Co., Ltd.
3F, 1624-24, Bongchen-dong
SOUTH KOREA
KR

00-03-BD (hex) OmniCluster Technologies, Inc.
0003BD (base 16) OmniCluster Technologies, Inc.
4950 Blue Lake Drive
Boca Raton FL 33431
US

00-03-B8 (hex) NetKit Solutions, LLC
0003B8 (base 16) NetKit Solutions, LLC
26630 Agoura Road
Calabasas CA 91302
US

00-03-B7 (hex) ZACCESS Systems
0003B7 (base 16) ZACCESS Systems
275 Shoreline
Drive, #110
Redwood City CA 94065

US

00-03-B0 (hex) Xsense Technology Corp.
0003B0 (base 16) Xsense Technology Corp.
11 F, 232, Sec. 3, ChengTeh Rd.
Taipei TAIWAN, 103
TW

00-03-AA (hex) Watlow
0003AA (base 16) Watlow
1241 Bundy Blvd.
Winona MN 55987
US

00-03-A8 (hex) IDOT Computers, Inc.
0003A8 (base 16) IDOT Computers, Inc.
3F., No. 137, Lane 235
TAIWAN TAIWAN R.O.C.
TW

00-03-A0 (hex) Cisco Systems, Inc
0003A0 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-03-A2 (hex) Catapult Communications
0003A2 (base 16) Catapult Communications
160 S. Whisman Rd.
Mountain View CA 94041
US

00-03-9C (hex) OptiMight Communications, Inc.
00039C (base 16) OptiMight Communications, Inc.
980 Linda Vista Avenue
Mountain View CA 94043
US

00-03-65 (hex) Kira Information & Communications, Ltd.
000365 (base 16) Kira Information
& Communications, Ltd.
6th Fl. Anam Tower,

KR

00-03-35 (hex) Mirae Technology
000335 (base 16) Mirae Technology
211-15, Hon Hyun-dong,

Seoul
KR

00-03-36 (hex) Zetes Technologies
000336 (base 16) Zetes Technologies
3 Rue De Stras Bourg

BE

00-03-37 (hex) Vaone, Inc.
000337 (base 16) Vaone, Inc.
6F Kyemong Art Center,
135-082
KR

00-03-69 (hex) Nippon Antenna Co., Ltd.
000369 (base 16) Nippon Antenna Co., Ltd.
No. 49-8, Nishiogu,
Tokyo 116-8561
JP

00-03-73 (hex) Aselsan A.S
000373 (base 16) Aselsan A.S
Mehmet Akif Ersoy Mah.

TR

00-03-77 (hex) Gigabit Wireless
000377 (base 16) Gigabit Wireless
3099 N. First Street
San Jose CA 95134
US

00-03-85 (hex) Actelis Networks, Inc.
000385 (base 16) Actelis Networks, Inc.
1 Bazel St., P.O.B. 10173

IL

00-02-E6 (hex) Gould Instrument Systems, Inc.
0002E6
(base 16) Gould Instrument Systems, Inc.
8333 Rockside Road
Valley View OH 44125
US

00-02-E4 (hex) JC HYUN Systems, Inc.
0002E4 (base 16) JC HYUN Systems, Inc.

Shinbong Bldg, 736-6,
Seoul (135-080)
KR

00-02-DE (hex) Astrodesign, Inc.
0002DE (base 16) Astrodesign, Inc.
2-22-12 Kamikodana Ka
Kanagawa
JP

00-02-E2 (hex) NDC Infared Engineering
0002E2 (base 16) NDC Infared Engineering
5314 N. Irwindale Ave.
Irwindale CA 91706
US

00-02-DC (hex) Fujitsu General Limited
0002DC (base 16) Fujitsu General Limited
1116, Suenaga, Takatsu-Ku,
213-8502
JP

00-02-E1 (hex) Integrated Network Corporation
0002E1 (base 16) Integrated Network Corporation
757 Route 202/206
Bridgewater NJ 08807
US

00-02-D7 (hex) EMPEG Ltd
0002D7 (base 16) EMPEG Ltd
1 Signet Court
CB5 8LA
GB

00-02-F8 (hex) SEAKR Engineering, Inc.
0002F8 (base 16) SEAKR Engineering,
Inc.
12847 E. Peakview Ave.
Englewood CO 80111
US

00-02-F7 (hex) ARM
0002F7 (base 16) ARM
110, Fulbourn Road
CB1 9NJ
GB

00-D0-24 (hex) Cognex Corporation

00D024 (base 16) Cognex Corporation
Modular Vision Systems Division
Portland OR 97224
US

00-02-F1 (hex) Pinetron Co., Ltd.
0002F1 (base 16) Pinetron Co., Ltd.
Bldg. #1599-11,
Seoul 137-073
KR

00-02-ED (hex) DXO Telecom Co., Ltd.
0002ED (base 16) DXO Telecom Co., Ltd.
8F, 300-11, Yumgok-Dong,

KR

00-02-EC (hex) Maschoff Design Engineering
0002EC (base 16) Maschoff Design Engineering
1325 Kenilworth Drive
Woodbury MN 55125
US

00-02-99 (hex) Apex, Inc.
000299 (base 16) Apex, Inc.
9911 Willows Rd. N.E.
Redmond WA 95052
US

00-02-98 (hex) Broadframe Corporation
000298 (base 16) Broadframe Corporation
5828 Moonstone Ave.
Alta Loma CA 91701
US

00-02-97
(hex) C-COR.net
000297 (base 16) C-COR.net
60 Decibel Road
State College PA 16801
US

00-02-91 (hex) Open Network Co., Ltd.
000291 (base 16) Open Network Co., Ltd.
Seishin Bldg., 2-5-10 Shinjuku
JAPAN 160-0022
JP

00-02-C6 (hex) Data Track Technology PLC
0002C6 (base 16) Data Track Technology PLC
153 Somerford Road
UNITED KINGDOM
GB

00-02-C1 (hex) Innovative Electronic Designs, Inc.
0002C1 (base 16) Innovative Electronic Designs, Inc.
9701 Taylorsville Rd.
Louisville KY 40299
US

00-02-C0 (hex) Bencent Tzeng Industry Co., Ltd.
0002C0 (base 16) Bencent Tzeng Industry Co., Ltd.
3rd fl., No. 3 Ruey Kuang Rd.,
Taiwan Taiwan R.O.C.
TW

00-02-D3 (hex) NetBotz, Inc.
0002D3 (base 16) NetBotz, Inc.
110044 Research Blvd.
Austin TX 78759
US

00-02-DA (hex) ExiO Communications, Inc.
0002DA (base 16) ExiO Communications, Inc.
2362 Qume Drive
San Jose
CA 95131
US

00-02-D4 (hex) PDA Peripherals, Inc.
0002D4 (base 16) PDA Peripherals, Inc.
205 Orange St.
New Haven CT 06510
US

00-02-D6 (hex) NICE Systems
0002D6 (base 16) NICE Systems
8 Hapnina St., POB 690

IL

00-02-8B (hex) VDSL Systems OY
00028B (base 16) VDSL Systems OY
Tekniikantie 12

FI

00-02-8C (hex) Micrel-Synergy Semiconductor
00028C (base 16) Micrel-Synergy Semiconductor
3250 Scott Boulevard
Santa Clara CA 95054
US

00-02-8D (hex) Movita Technologies, Inc.
00028D (base 16) Movita Technologies, Inc.
No. 26 Wu-Chuan 7th Road,
Taipei Taiwan, R.O.C.
TW

00-B0-52 (hex) Atheros Communications
00B052 (base 16) Atheros Communications
5955 T.G. Lee Blvd, Ste. 600
Ocala FL 32822
US

00-03-14 (hex) Teleware Network Systems
000314 (base 16) Teleware Network Systems
#7806 7th Dongil Technotown,
431-062
KR

00-03-3B (hex) TAMI
Tech Co., Ltd.
00033B (base 16) TAMI Tech Co., Ltd.
4F, Chungdo Bencher Town
Taejon
KR

00-03-2D (hex) IBASE Technology, Inc.
00032D (base 16) IBASE Technology, Inc.
5F, No. 221,
Taipei
TW

00-03-2F (hex) Global Sun Technology, Inc.
00032F (base 16) Global Sun Technology, Inc.
No. 13, Tung Yuan Rd.,

TW

00-02-A6 (hex) Effinet Systems Co., Ltd.
0002A6 (base 16) Effinet Systems Co., Ltd.
Yugong Bldg. 502
Korea

KR

00-02-5C (hex) SCI Systems (Kunshan) Co., Ltd.
00025C (base 16) SCI Systems (Kunshan) Co., Ltd.
312 QING YANG ROAD
CHINA CHINA 215300
CN

00-00-87 (hex) HITACHI, LTD.
000087 (base 16) HITACHI, LTD.
NETWORK ENGINEERING DIV.
TOKYO 140
JP

00-02-58 (hex) Flying Packets Communications
000258 (base 16) Flying Packets Communications
388 Market Street
San Francisco CA 94111
US

00-02-55 (hex) IBM Corp
000255 (base
16) IBM Corp
3039 E Cornwallis Road
Research Triangle Park NC 27709-2195
US

00-02-52 (hex) Carrier Corporation
000252 (base 16) Carrier Corporation
One Carrier Place
Farmington CT 06034-4015
US

00-02-07 (hex) VisionGlobal Network Corp.
000207 (base 16) VisionGlobal Network Corp.
826 E. Stale Road
American Fork UT 84003
US

00-02-08 (hex) Unify Networks, Inc.
000208 (base 16) Unify Networks, Inc.
3160 De La Cruz Blvd.
Santa Clara CA 95054
US

00-02-04 (hex) Bodmann Industries Elektronik GmbH
000204 (base 16) Bodmann Industries Elektronik GmbH
Messerschmittring 33

DE

00-02-0D (hex) Micronpc.com
00020D (base 16) Micronpc.com
900 E. Karcher Rd.
Nampa IA 83687
US

00-02-11 (hex) Nature Worldwide Technology Corp.
000211 (base 16) Nature Worldwide Technology Corp.
No. 1, Min-Chuan Street
Taiwan Taiwan R.O.C.
TW

00-02-12 (hex) SierraCom
000212
(base 16) SierraCom
99 South Street
Hopkinton Ma 01748
US

00-02-17 (hex) Cisco Systems, Inc
000217 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-02-2D (hex) Agere Systems
00022D (base 16) Agere Systems
P.O. Box 755

NL

00-02-26 (hex) XESystems, Inc.
000226 (base 16) XESystems, Inc.
317 Main Street
East Rochester NY 14445
US

00-02-25 (hex) One Stop Systems
000225 (base 16) One Stop Systems
2235 Enterprise Street
Escondido CA 92029
US

00-02-20 (hex) CANON FINETECH INC.
000220 (base 16) CANON FINETECH INC.

717, Yaguchi, Misato-shi,
Saitama 341-8527
JP

00-02-4E (hex) Datacard Group
00024E (base 16) Datacard Group
11111 Bren Road West
Minnetonka MN 55343
US

00-02-42 (hex) Videoframe Systems
000242 (base 16) Videoframe Systems
101 Providence Mine Road
Nevada City CA 95959
US

00-02-44
(hex) SURECOM Technology Co.
000244 (base 16) SURECOM Technology Co.
6F, No. 125, Sec. 2, Datung Rd.
Taiwan Taiwan R.O.C.
TW

00-02-3E (hex) Selta Telematica S.p.a
00023E (base 16) Selta Telematica S.p.a
Via Nazionale km 404.5

IT

00-02-41 (hex) Amer.com
000241 (base 16) Amer.com
7259 Bryan Dairy Road
Largo FL 33777
US

00-02-7D (hex) Cisco Systems, Inc
00027D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-02-7C (hex) Trilithic, Inc.
00027C (base 16) Trilithic, Inc.
9202 E. 33rd Street
Indianapolis IN 46235
US

00-02-75 (hex) SMART Technologies, Inc.

000275 (base 16) SMART Technologies, Inc.
3636 Research Road NW
Calgary, Alberta T2L1Y1
CA

00-01-F9 (hex) TeraGlobal Communications Corp.
0001F9 (base 16) TeraGlobal Communications Corp.
9171 Towne Centre Drive
San Diego CA 92122
US

00-01-FB
(hex) DoTop Technology, Inc.
0001FB (base 16) DoTop Technology, Inc.
10F, No. 100, Min-Chyuan Road
TAIWAN
TW

00-01-F8 (hex) TEXIO TECHNOLOGY CORPORATION
0001F8 (base 16) TEXIO TECHNOLOGY CORPORATION
2-18-13 Shin Yokohama,
222-0033
JP

00-01-E8 (hex) Force10 Networks, Inc.
0001E8 (base 16) Force10 Networks, Inc.
1440 McCarthy Blvd.
Milpitas CA 95035
US

00-01-7A (hex) Chengdu Maipu Electric Industrial Co., Ltd.
00017A (base 16) Chengdu Maipu Electric Industrial Co., Ltd.
NANYI BUILDING, CONSULATE RD.,
P.R.
CN

00-02-38 (hex) Serome Technology, Inc.
000238 (base 16) Serome Technology, Inc.
555-14, Baekang B/D 7F
Seoul Korea 135-120
KR

00-02-29 (hex) Adtec Corporation
000229 (base 16) Adtec Corporation
3F Megurohigashiyama Blg

JP

00-02-69 (hex) Nadatel Co., Ltd
000269 (base 16) Nadatel Co., Ltd
9F CoWell Bldg, 66-1 Banpo-Dong
KOREA
137-040
KR

00-02-64 (hex) AudioRamp.com
000264 (base 16) AudioRamp.com
15941 Red Hill Suite 205
Tustin CA 92780
US

00-02-5F (hex) Nortel Networks
00025F (base 16) Nortel Networks
9300 trans-CANADA Highway
H4S 1KS
CA

00-01-E9 (hex) Litton Marine Systems B.V.
0001E9 (base 16) Litton Marine Systems B.V.
118 Burlington Road
ENGLAND KT3 4NR
GB

00-01-E5 (hex) Supernet, Inc.
0001E5 (base 16) Supernet, Inc.
135-080 Daemeong Bldg.
KOREA
KR

00-01-D4 (hex) Leisure Time, Inc.
0001D4 (base 16) Leisure Time, Inc.
4258 Communications Drive
Norcross GA 30093
US

00-01-DD (hex) Avail Networks
0001DD (base 16) Avail Networks
305 E. Eisenhower Parkway
Ann Arbor MI 48108
US

00-01-D5 (hex) HAEDONG INFO & COMM CO., LTD
0001D5 (base 16) HAEDONG INFO & COMM CO., LTD
#801 The Corporation Center for Universi
Taejeon Republic of Korea 305
KR

00-01-D7
(hex) F5 Networks, Inc.
0001D7 (base 16) F5 Networks, Inc.
1322 N. Whitman Lane
Liberty Lake WA 99019
US

00-01-DE (hex) Trango Systems, Inc.
0001DE (base 16) Trango Systems, Inc.
9939 V/A Pasar
San Diego CA 92126
US

00-01-DC (hex) Activetelco
0001DC (base 16) Activetelco
43222 Christy Street
Fremont CA 94538
US

00-01-0A (hex) CIS TECHNOLOGY INC.
00010A (base 16) CIS TECHNOLOGY INC.
16F, No. 75 Hsin Tai Wu Road
Taipei Hsien 221
TW

00-01-62 (hex) Cygnet Technologies, Inc.
000162 (base 16) Cygnet Technologies, Inc.
1411 LeMay Drive #301
Carrollton TX 75007
US

00-01-67 (hex) HIOKI E.E. CORPORATION
000167 (base 16) HIOKI E.E. CORPORATION
81 Koizumi, Ueda, Nagano
386-1192 386-1192
JP

00-01-68 (hex) VITANA CORPORATION
000168 (base 16) VITANA CORPORATION
2500 Don Reid Drive
K1H 1E1 K1H 1E1
CA

00-01-5F (hex) DIGITAL DESIGN
GmbH
00015F (base 16) DIGITAL DESIGN GmbH
Rauchstr. 21

Berlin D-10787
DE

00-01-64 (hex) Cisco Systems, Inc
000164 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-01-BF (hex) Teleforce Co., Ltd.
0001BF (base 16) Teleforce Co., Ltd.
721 yoshioka-cho kanonji-city

JP

00-01-B4 (hex) Wayport, Inc.
0001B4 (base 16) Wayport, Inc.
1609 Shoal Creek Blvd.
Austin TX 78701
US

00-01-BA (hex) IC-Net, Inc.
0001BA (base 16) IC-Net, Inc.
5 Fl. Seasung Bldg., 311-27 Noryangjin-D
KOREA
KR

00-01-B0 (hex) Fulltek Technology Co., Ltd.
0001B0 (base 16) Fulltek Technology Co., Ltd.
3F No. 8, Lane 130, Min Chuan Rd., Hsint
TAIWAN R.O.C.
TW

00-01-A9 (hex) BMW AG
0001A9 (base 16) BMW AG
Dept. FG-322
80788 Munich
DE

00-01-AA (hex) Airspan Communications, Ltd.
0001AA (base 16) Airspan Communications, Ltd.
Cambridge
House, Oxford Rd.,

GB

00-01-CF (hex) Alpha Data Parallel Systems, Ltd.
0001CF (base 16) Alpha Data Parallel Systems, Ltd.

58 Timber Bush
UNITED KINGDOM
GB

00-01-D0 (hex) VitalPoint, Inc.
0001D0 (base 16) VitalPoint, Inc.
15770 Hopper Road
Peyton CO 80831
US

00-01-C7 (hex) Cisco Systems, Inc
0001C7 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-01-54 (hex) G3M Corporation
000154 (base 16) G3M Corporation
4320 Stevens Creek Blvd. - Ste. #275
San Jose CA 95129
US

00-01-52 (hex) CHROMATEK INC.
000152 (base 16) CHROMATEK INC.
6-10, Miyazaki 2-Chome

JP

00-01-50 (hex) GILAT COMMUNICATIONS, LTD.
000150 (base 16) GILAT COMMUNICATIONS, LTD.
21/D Yegia Kapayim Street

IL

00-01-51 (hex) Ensemble Communications
000151 (base 16) Ensemble Communications
6256 Greenman Drive - Ste. #400
San Diego CA 92122
US

00-01-9E
(hex) ESS Technology, Inc.
00019E (base 16) ESS Technology, Inc.
48401 Fremont Blvd.
Fremont CA 94538
US

00-01-7D (hex) ThermoQuest

00017D (base 16) ThermoQuest
355 River Oaks Parkway
San Jose CA 95134
US

00-01-81 (hex) Nortel Networks
000181 (base 16) Nortel Networks
1100 Technology Park Drive
Billerica MA 01821
US

00-01-94 (hex) Capital Equipment Corporation
000194 (base 16) Capital Equipment Corporation
900 Middlesex Turnpike - Bldg. 2
Billerica MA 01821
US

00-01-98 (hex) Darim Vision
000198 (base 16) Darim Vision
Taejon Expo Venture Town
KOREA
KR

00-01-BE (hex) Gigalink Co., Ltd.
0001BE (base 16) Gigalink Co., Ltd.
6th F/L Diplomatic Center 1376-1
KOREA
KR

00-01-B1 (hex) General Bandwidth
0001B1 (base 16) General Bandwidth
12303-B Technology Blvd.
Austin TX 78727
US

00-01-85 (hex) Hitachi Aloka Medical,
Ltd.
000185 (base 16) Hitachi Aloka Medical, Ltd.
3-7-19, Imai Ome-city
198-8577
JP

00-01-A2 (hex) Logical Co., Ltd.
0001A2 (base 16) Logical Co., Ltd.
4598 Murakushi-cho
431-1207
JP

00-B0-2D (hex) ViaGate Technologies, Inc.
00B02D (base 16) ViaGate Technologies, Inc.
745 Route 202/206
Bridgewater NJ 08807
US

00-30-EE (hex) DSG Technology, Inc.
0030EE (base 16) DSG Technology, Inc.
6F-4 No. 270, Chwig Hsiao
Taipei
TW

00-30-9E (hex) WORKBIT CORPORATION.
00309E (base 16) WORKBIT CORPORATION.
1-2-2 Chuou, Yamato
Kanagawa 242-0021
JP

00-30-DE (hex) WAGO Kontakttechnik GmbH
0030DE (base 16) WAGO Kontakttechnik GmbH
Hansastrasse 27
32423 Minden
DE

00-30-3E (hex) Radcom Ltd.
00303E (base 16) Radcom Ltd.
12 Hanechoshet Street
Tel-Aviv 69710
IL

00-30-D7 (hex) Innovative Systems, L.L.C.
0030D7 (base 16) Innovative
Systems, L.L.C.
1000 Innovative Drive
Mitchell SD 57301
US

00-30-7B (hex) Cisco Systems, Inc
00307B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-30-88 (hex) Ericsson
003088 (base 16) Ericsson
250 Holger Way
SAN JOSE CA 95134
US

00-30-B5 (hex) Tadiran Microwave Networks
0030B5 (base 16) Tadiran Microwave Networks
4000 Greenbriar Drive
Stafford TX 77477
US

00-30-20 (hex) TSI, Inc..
003020 (base 16) TSI, Inc..
500 Cardigan Road
Shoreview MN 55126
US

00-B0-4A (hex) Cisco Systems, Inc
00B04A (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-B0-48 (hex) Marconi Communications Inc.
00B048 (base 16) Marconi Communications Inc.
8616 Freeport Parkway
Irving TX 75063
US

00-B0-CE (hex) Viveris Technologies
00B0CE (base 16) Viveris Technologies
1 rue Traversiere BP 20327
Rungis
Cedex 94598
FR

00-B0-1C (hex) Westport Technologies
00B01C (base 16) Westport Technologies
15 Capella Court, Unit 116
Nepean Ontario
CA

00-01-19 (hex) RTUnet (Australia)
000119 (base 16) RTUnet (Australia)
8/3-5 Gilda Court
Mulgrave Vic 3170
AU

00-01-22 (hex) Trend Communications, Ltd.
000122 (base 16) Trend Communications, Ltd.
Knaves Beech Estate
Bucks, HP10 9QZ

GB

00-01-1A (hex) Hoffmann und Burmeister GbR
00011A (base 16) Hoffmann und Burmeister GbR
Niederberger Str. 75
D-53909 Zuelpich
DE

00-01-24 (hex) Acer Incorporated
000124 (base 16) Acer Incorporated
21F, 88, Sec.1
Taipei Hsien 221
TW

00-01-42 (hex) Cisco Systems, Inc
000142 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-01-2C (hex) Aravox Technologies, Inc.
00012C (base 16) Aravox Technologies, Inc.
16725 40th Place North
Plymouth
MN 55446
US

00-01-21 (hex) WatchGuard Technologies, Inc.
000121 (base 16) WatchGuard Technologies, Inc.
605 Fifth Ave. S
Seattle WA 98104-3892
US

00-01-29 (hex) DFI Inc.
000129 (base 16) DFI Inc.
100, Huan-Ho Street
Hsi-Chih City Taipei Hsien
TW

00-01-15 (hex) EXTRATECH CORPORATION
000115 (base 16) EXTRATECH CORPORATION
760 Thornton St., Unit 2
Post Falls ID 83854
US

00-01-01 (hex) Private
000101 (base 16) Private

00-01-0D (hex) Teledyne DALSA Inc.
00010D (base 16) Teledyne DALSA Inc.
880 McCaffrey
St-Laurent Quebec H4T 2C7
CA

00-01-05 (hex) Beckhoff Automation GmbH
000105 (base 16) Beckhoff Automation GmbH
Eiserstraße 5
Verl NRW 33415
DE

00-B0-17 (hex) InfoGear Technology Corp.
00B017 (base 16) InfoGear Technology Corp.
2055 Woodside Road
Redwood City CA 94061
US

00-01-2B (hex) TELENET Co., Ltd.
00012B (base 16) TELENET Co.,
Ltd.

00-01-3F (hex) Neighbor World Co., Ltd.
00013F (base 16) Neighbor World Co., Ltd.
114A YERC, 134, Shinchon_dong
120-749 120-749 KOREA
KR

00-30-1B (hex) SHUTTLE, INC.
00301B (base 16) SHUTTLE, INC.
5F, No. 34, Lane 60
Taipei
TW

00-30-3A (hex) MAATEL
00303A (base 16) MAATEL
495 RUE DE POMMARIN
38360 VOREPPE
FR

00-30-2C (hex) SYLANTRO SYSTEMS CORPORATION
00302C (base 16) SYLANTRO SYSTEMS CORPORATION
1686 DELL AVENUE
CAMPBELL CA 95008
US

00-30-DF (hex) KB/TEL TELECOMUNICACIONES
0030DF (base 16) KB/TEL TELECOMUNICACIONES
S.A. DE C.V.
Mexico City 14060
MX

00-30-4E (hex) BUSTEC PRODUCTION LTD.
00304E (base 16) BUSTEC PRODUCTION LTD.
WORLD AVIATION PARK
Shannon County Clare
IE

00-30-63 (hex) SANTERA SYSTEMS, INC.
003063 (base 16) SANTERA SYSTEMS, INC.
2901 SUMMIT AVENUE - STE. #100
PLANO TX 75074
US

00-30-30
(hex) HARMONIX CORPORATION
003030 (base 16) HARMONIX CORPORATION
1755 OSGOOD STREET
NORTH ANDOVER MA 01845
US

00-30-A3 (hex) Cisco Systems, Inc
0030A3 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-30-FD (hex) INTEGRATED SYSTEMS DESIGN
0030FD (base 16) INTEGRATED SYSTEMS DESIGN
3650-G CENTRE CIRCLE DRIVE
FORT MILL SC 29715
US

00-30-B9 (hex) ECTEL
0030B9 (base 16) ECTEL
22240 COMSAT DRIVE
CLARKSBURG MD 20871
US

00-30-7D (hex) GRE AMERICA, INC.
00307D (base 16) GRE AMERICA, INC.
425 HARBOR BLVD.
BELMONT CA 94002

US

00-30-DD (hex) INDIGITA CORPORATION
0030DD (base 16) INDIGITA CORPORATION
30 Corporate Park Drive
Irvine CA 92606
US

00-30-99 (hex) BOENIG UND KALLENBACH OHG
003099 (base 16) BOENIG UND KALLENBACH OHG
AM SPOERKEL 100

DE

00-30-F2 (hex) Cisco Systems, Inc
0030F2 (base 16) Cisco
Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-30-51 (hex) ORBIT AVIONIC & COMMUNICATION
003051 (base 16) ORBIT AVIONIC & COMMUNICATION
SYSTEMS, LTD.

IL

00-30-08 (hex) AVIO DIGITAL, INC.
003008 (base 16) AVIO DIGITAL, INC.
957 INDUSTRIAL ROAD
SAN CARLOS CA 94070
US

00-30-1D (hex) SKYSTREAM, INC.
00301D (base 16) SKYSTREAM, INC.
455 DeGuigne Drive
Sunnyvale CA 94086-3835
US

00-30-A4 (hex) Woodwind Communications System
0030A4 (base 16) Woodwind Communications System
20300 Century Blvd., Suite 200B
Germantown MD 20874
US

00-30-3B (hex) PowerCom Technology
00303B (base 16) PowerCom Technology
2F, No. 34, Industry E. Road IV

Hsinchu 300
TW

00-30-BC (hex) Optronic AG
0030BC (base 16) Optronic AG
untereggerstrasse 53
9403 Goldach
CH

00-30-B8 (hex) RiverDelta Networks
0030B8 (base 16) RiverDelta Networks
Three
Highwood Drive East
Tewksbury MA 01876
US

00-30-71 (hex) Cisco Systems, Inc
003071 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-30-21 (hex) HSING TECH. ENTERPRISE CO.,LTD
003021 (base 16) HSING TECH. ENTERPRISE CO.,LTD
2F, NO. 22, ALLLEY 38, LANE 91
TAIPEI
TW

00-30-EF (hex) NEON TECHNOLOGY, INC.
0030EF (base 16) NEON TECHNOLOGY, INC.
85 WEST MONTAGUE EXPRESSWAY
MILPITAS CA 95035
US

00-30-27 (hex) KERBANGO, INC.
003027 (base 16) KERBANGO, INC.
21771 STEVENS CREEK BLVD. #100
CUPERTINO CA 95014
US

00-30-33 (hex) ORIENT TELECOM CO., LTD.
003033 (base 16) ORIENT TELECOM CO., LTD.
MISUNG BULDING 115-7
KOREA
KR

00-30-95 (hex) Procomp Informatics, Ltd.
003095 (base 16) Procomp Informatics, Ltd.

5F, 69-10, Sec. 2,
Tamshui, Taipei, Hsien
TW

00-30-CA (hex) Discovery Com
0030CA (base 16) Discovery Com
4935
Century Street
Huntsville AL 35816
US

00-30-CE (hex) Zaffire
0030CE (base 16) Zaffire
2630 Orchard Parkway
San Jose CA 95134-2020
US

00-30-BA (hex) AC&T SYSTEM CO., LTD.
0030BA (base 16) AC&T SYSTEM CO., LTD.
ROOM 702, KEUM-WHA PLAZA
435-040 SOUTH KOREA
KR

00-30-96 (hex) Cisco Systems, Inc
003096 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-30-39 (hex) SOFTBOOK PRESS
003039 (base 16) SOFTBOOK PRESS
7745 HERSCHEL AVENUE
LA JOLLA CA 92037
US

00-D0-97 (hex) Cisco Systems, Inc
00D097 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-D0-8E (hex) Grass Valley, A Belden Brand
00D08E (base 16) Grass Valley, A Belden Brand
3499, Douglas B. Floreani
Montreal Quebec H4S 2C6
CA

00-D0-56 (hex) SOMAT CORPORATION

00D056 (base 16) SOMAT CORPORATION
702 KILLARNEY STREET
URBANA IL 61801
US

00-D0-E0
(hex) DOOIN ELECTRONICS CO.
00D0E0 (base 16) DOOIN ELECTRONICS CO.
DOOIN BLDG. 16-6, SOONAE-DONG
KOREA 463-020
KR

00-D0-33 (hex) DALIAN DAXIAN NETWORK
00D033 (base 16) DALIAN DAXIAN NETWORK
SYSTEM CO., LTD.

CN

00-D0-D6 (hex) AETHRA TELECOMUNICAZIONI
00D0D6 (base 16) AETHRA TELECOMUNICAZIONI
VIA MATTEO RICCI, 10

IT

00-D0-63 (hex) Cisco Systems, Inc
00D063 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-D0-F8 (hex) FUJIAN STAR TERMINAL
00D0F8 (base 16) FUJIAN STAR TERMINAL
DEVICE CO., LTD.
FUZHOU FUJIAN, CHINA 350002
CN

00-D0-ED (hex) XIOX
00D0ED (base 16) XIOX
150 DOW STREET
MANCHESTER NH 03101
US

00-D0-55 (hex) KATHREIN-WERKE KG
00D055 (base 16) KATHREIN-WERKE KG
ANTON-KATHREIN-STRASS 1-3

DE

00-D0-3B (hex) VISION PRODUCTS PTY. LTD.
00D03B (base 16) VISION PRODUCTS PTY.
LTD.
SECOND AVENUE, TECHNOLOGY PARK
AUSTRALIA 5095
AU

00-D0-B3 (hex) DRS Technologies Canada Ltd
00D0B3 (base 16) DRS Technologies Canada Ltd
700 Palladium Drive
Ottawa Ontario K2V 1C6
CA

00-D0-00 (hex) FERRAN SCIENTIFIC, INC.
00D000 (base 16) FERRAN SCIENTIFIC, INC.
11558 SORRENTO VALLEY ROAD
SAN DIEGO CA 92121
US

00-D0-D0 (hex) ZHONGXING TELECOM LTD.
00D0D0 (base 16) ZHONGXING TELECOM LTD.
8-9F BUILDING 54,301#

CN

00-D0-53 (hex) CONNECTED SYSTEMS
00D053 (base 16) CONNECTED SYSTEMS
126 W. FIGUEROA STREET
SANTA BARBARA CA 93101
US

00-D0-B0 (hex) BITSWITCH LTD.
00D0B0 (base 16) BITSWITCH LTD.
3 MEADOW COURT, AMOS ROAD
UNITED KINGDOM
GB

00-D0-30 (hex) Safetran Systems Corp
00D030 (base 16) Safetran Systems Corp
10655 7th Street
Rancho Cucamonga CA 91730
US

00-D0-47 (hex) XN TECHNOLOGIES
00D047 (base 16) XN TECHNOLOGIES
P.O.
BOX 350
CHENEY WA 99004

US

00-D0-AF (hex) CUTLER-HAMMER, INC.
00D0AF (base 16) CUTLER-HAMMER, INC.
PMP CENTER
PITTSBURGH PA 15205
US

00-D0-52 (hex) ASCEND COMMUNICATIONS, INC.
00D052 (base 16) ASCEND COMMUNICATIONS, INC.
1701 HARBOR BAY PARKWAY
ALAMEDA CA 94502
US

00-D0-AD (hex) TL INDUSTRIES
00D0AD (base 16) TL INDUSTRIES
2541 TRACY ROAD
NORTHWOOD OH 43619
US

00-D0-A4 (hex) ALANTRO COMMUNICATIONS
00D0A4 (base 16) ALANTRO COMMUNICATIONS
141 STONY CIRCLE, STE. #210
SANTAROSA CA 95401
US

00-30-2A (hex) SOUTHERN INFORMATION
00302A (base 16) SOUTHERN INFORMATION
SYSTEM, INC.
HSINCHU TAIWAN, R.O.C.
TW

00-30-E1 (hex) Network Equipment Technologies, Inc.
0030E1 (base 16) Network Equipment Technologies, Inc.
6900 Paseo Padre Parkway
Fremont CA 94555
US

00-D0-83 (hex) INVERTEX, INC.
00D083 (base 16) INVERTEX, INC.
1012 MORSE AVENUE-
STE.#9
SUNNYVALE CA 94089
US

00-D0-BA (hex) Cisco Systems, Inc
00D0BA (base 16) Cisco Systems, Inc
80 West Tasman Drive

San Jose CA 94568
US

00-D0-E4 (hex) Cisco Systems, Inc
00D0E4 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-D0-92 (hex) GLENAYRE WESTERN MULTIPLEX
00D092 (base 16) GLENAYRE WESTERN MULTIPLEX
1196 BORREGAS AVENUE
SUNNYVALE CA 94089
US

00-30-01 (hex) SMP
003001 (base 16) SMP
22, RUE DES COSMONAUTES

FR

00-D0-8B (hex) ADVA Optical Networking Ltd.
00D08B (base 16) ADVA Optical Networking Ltd.
ADVAntage House
York YO30 4RY
GB

00-D0-5A (hex) SYMBIONICS, LTD.
00D05A (base 16) SYMBIONICS, LTD.
ST. JOHN'S INNOVATION PARK
ENGLAND
GB

00-D0-79 (hex) Cisco Systems, Inc
00D079 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-D0-21 (hex) REGENT ELECTRONICS
CORP.
00D021 (base 16) REGENT ELECTRONICS CORP.
200 CENTENNIAL AVE.-STE. #201
PISCATAWAY NJ 08854
US

00-D0-9F (hex) NOVTEK TEST SYSTEMS
00D09F (base 16) NOVTEK TEST SYSTEMS

2170 PARAGON DRIVE
SAN JOSE CA 95131
US

00-D0-09 (hex) HSING TECH. ENTERPRISE CO. LTD
00D009 (base 16) HSING TECH. ENTERPRISE CO. LTD
NO.2, LANE 128, SEC. 2
TAIWAN TAIWAN R.O.C.
TW

00-D0-D4 (hex) V-BITS, INC.
00D0D4 (base 16) V-BITS, INC.
2150 TRADE ZONE BLVD.
SAN JOSE CA 95131
US

00-D0-E7 (hex) VCON TELECOMMUNICATION LTD.
00D0E7 (base 16) VCON TELECOMMUNICATION LTD.
22 MASKIT STREET

IL

00-D0-84 (hex) NEXCOMM SYSTEMS, INC.
00D084 (base 16) NEXCOMM SYSTEMS, INC.
SUIT #NAL-903,
SUNGNAM-CITY SUNGNAM-CITY KYUNGGI-DO,K
KR

00-D0-99 (hex) Elcard Wireless Systems Oy
00D099 (base 16) Elcard Wireless Systems Oy
P.O. BOX 120/BECKERINTIC 38

FI

00-D0-FE (hex) ASTRAL
POINT
00D0FE (base 16) ASTRAL POINT
COMMUNICATIONS, INC.
CHELMSFORD MA 01824
US

00-D0-98 (hex) Photon Dynamics Canada Inc.
00D098 (base 16) Photon Dynamics Canada Inc.
221 Whitehall Drive
L3R 9T1
CA

00-D0-BE (hex) EMUTEC INC.

00D0BE (base 16) EMUTEC INC.
P.O. BOX 3035
EVERETT WA 98203
US

00-D0-F4 (hex) CARINTHIAN TECH INSTITUTE
00D0F4 (base 16) CARINTHIAN TECH INSTITUTE
RICHARD-WAGNER STR. 19

AT

00-D0-7D (hex) COSINE COMMUNICATIONS
00D07D (base 16) COSINE COMMUNICATIONS
1200 BRIDGE PARKWAY
REDWOOD CITY CA 94065
US

00-D0-1B (hex) MIMAKI ENGINEERING CO., LTD.
00D01B (base 16) MIMAKI ENGINEERING CO., LTD.
5-9-41 KITA SHINAGAWA

JP

00-D0-0D (hex) MICROMERITICS INSTRUMENT
00D00D (base 16) MICROMERITICS INSTRUMENT
CORPORATION
NORCROSS GA 30093-1877
US

00-D0-4A (hex) PRESENCE TECHNOLOGY GMBH
00D04A (base 16) PRESENCE
TECHNOLOGY GMBH
+ CO. KG

DE

00-D0-74 (hex) TAQUA SYSTEMS, INC.
00D074 (base 16) TAQUA SYSTEMS, INC.
1600 FALMOUTH RD. - STE
CENTERVILLE MA 02632
US

00-D0-C7 (hex) PATHWAY, INC.
00D0C7 (base 16) PATHWAY, INC.
777 BETA DRIVE
MAYFIELD VILLAGE OH 44143
US

00-D0-7A (hex) AMAQUEST COMPUTER CORP.
00D07A (base 16) AMAQUEST COMPUTER CORP.
8/F, 79 HSIN-TAI
TAIWAN R.O.C.
TW

00-D0-B8 (hex) Iomega Corporation
00D0B8 (base 16) Iomega Corporation
1821 West 4000 South
Roy UT 84067
US

00-50-9D (hex) THE INDUSTREE B.V.
00509D (base 16) THE INDUSTREE B.V.
P.O. BOX 462
THE
NL

00-50-6D (hex) VIDEOJET SYSTEMS
00506D (base 16) VIDEOJET SYSTEMS
INTERNATIONAL INC.
WOODDALE IL 60091-1073
US

00-50-74 (hex) ADVANCED HI-TECH CORP.
005074 (base 16) ADVANCED HI-TECH CORP.
1990 EAST GRAND AVE.
EL SEGUNDO CA 90505
US

00-50-0A (hex) IRIS
TECHNOLOGIES, INC.
00500A (base 16) IRIS TECHNOLOGIES, INC.
WESTMORELAND INDUSRIAL PARK
GREENSBURG PA 15601
US

00-D0-54 (hex) SAS INSTITUTE INC.
00D054 (base 16) SAS INSTITUTE INC.
SAS CAMPUS DRIVE, R4
CARY NC 27511
US

00-50-70 (hex) CHAINTECH COMPUTER CO., LTD.
005070 (base 16) CHAINTECH COMPUTER CO., LTD.
5TH F, ALLEY 2, LANE 222
TAIWAN R.O.C.
TW

00-50-23 (hex) PG DESIGN ELECTRONICS, INC.
005023 (base 16) PG DESIGN ELECTRONICS, INC.
48700 STRUCTURAL DRIVE
CHESTERFIELD MI 48051
US

00-50-B1 (hex) GIDDINGS & LEWIS
0050B1 (base 16) GIDDINGS & LEWIS
660 S. MILITARY RD.
FOND DU LAC WI 54935
US

00-50-9E (hex) Les Technologies SoftAcoustik Inc.
00509E (base 16) Les Technologies SoftAcoustik Inc.

Quebec G1K 3P6
CA

00-50-71 (hex) AIWA CO., LTD.
005071 (base 16) AIWA CO., LTD.
1-11, KAMITOMATSURI 4-CHOME
UTSUNOMIYA-SHI, TOCHIGI-KEN 320-85

JP

00-50-5F (hex) BRAND INNOVATORS
00505F (base 16) BRAND INNOVATORS
Steenovenweg 5
Helmond 5708 HN
NL

00-50-B4 (hex) SATCHWELL CONTROL SYSTEMS, LTD
0050B4 (base 16) SATCHWELL CONTROL SYSTEMS, LTD
P.O. BOX 57, 94 FARNHAM ROAD
BERKSHIRE SL1 4UH
GB

00-50-6A (hex) EDEVA, INC.
00506A (base 16) EDEVA, INC.
298 S. SUNNYVALE AVE. - #208
SUNNYVALE CA 94086
US

00-50-C5 (hex) ADS Technologies, Inc
0050C5 (base 16) ADS Technologies, Inc
12627 Hiddencreek Way
Cerritos CA 90703

US

00-50-8E (hex) OPTIMATION, INC.
00508E (base 16) OPTIMATION, INC.
P.O. BOX 14357
HUNTSVILLE AL 35815
US

00-50-28 (hex) AVAL COMMUNICATIONS
005028 (base 16) AVAL COMMUNICATIONS
1777 NORTH CALIFORNIA BLVD.
WALNUT CREEK CA 94596
US

00-50-2F (hex) TollBridge Technologies, Inc.
00502F (base 16) TollBridge Technologies, Inc.
872 HERMOSA DRIVE
SUNNYVALE CA 94086
US

00-50-AA
(hex) KONICA MINOLTA HOLDINGS, INC.
0050AA (base 16) KONICA MINOLTA HOLDINGS, INC.
1-6-1, Marunouchi,
Tokyo 100-0005
JP

00-50-38 (hex) DAIN TELECOM CO., LTD.
005038 (base 16) DAIN TELECOM CO., LTD.
2ND Flr., OH-SUNG BLDG. #2-28
YANGJAE-DONG, SEOCHO-GU SEOUL
KR

00-50-A8 (hex) OpenCon Systems, Inc.
0050A8 (base 16) OpenCon Systems, Inc.
377 HOES LANE
PISCATAWAY NJ 08854
US

00-50-9C (hex) BETA RESEARCH
00509C (base 16) BETA RESEARCH
BETASTR. 1
85774 UNTERFOEHRING
DE

00-50-D6 (hex) ATLAS COPCO TOOLS AB
0050D6 (base 16) ATLAS COPCO TOOLS AB

S-105 23 STOCKHOLM
SE

00-50-82 (hex) FORESSON CORPORATION
005082 (base 16) FORESSON CORPORATION
3F, NO.9 SEC.1
TAIPEI 10404
TW

00-50-DF (hex) AirFiber, Inc.
0050DF (base 16) AirFiber, Inc.
P.O. BOX 502148
SAN DIEGO CA 92150-2148
US

00-50-37 (hex) KOGA ELECTRONICS
CO.
005037 (base 16) KOGA ELECTRONICS CO.
5-8-10, TEHARA, RITTO-CHO
SHIGA, 420-3047
JP

00-50-06 (hex) TAC AB
005006 (base 16) TAC AB
JAGERSHILLGATON 18
21375 MALMO
SE

00-50-09 (hex) PHILIPS BROADBAND NETWORKS
005009 (base 16) PHILIPS BROADBAND NETWORKS
64 PERIMETER CENTRE EAST
ATLANTA GA 30346
US

00-50-30 (hex) FUTURE PLUS SYSTEMS
005030 (base 16) FUTURE PLUS SYSTEMS
36 OLDE ENGLISH RD.
BEDFORD NH 03110
US

00-50-58 (hex) Sangoma Technologies
005058 (base 16) Sangoma Technologies
100 Renfrew Drive, Suite 100
Markham ON L3R 9R6
CA

00-50-FE (hex) PCTVnet ASA
0050FE (base 16) PCTVnet ASA

STRANDVEILEN 50
N-1324 LYSAKER
NO

00-50-AB (hex) NALTEC, Inc.
0050AB (base 16) NALTEC, Inc.
1-1-15, Nakanogo, Shimizu-ku
Shizuoka-shi Shizuoka 424-0888
JP

00-50-32 (hex) PICAZO COMMUNICATIONS, INC.
005032 (base 16) PICAZO COMMUNICATIONS,
INC.
61 DAGGETT DRIVE
SAN JOSE CA 95134
US

00-50-4D (hex) Tokyo Electron Device Limited
00504D (base 16) Tokyo Electron Device Limited
1, Higashikata-machi, Tsuzuki-ku,
Yokohama-shi Kanagawa-ken
JP

00-50-B7 (hex) BOSER TECHNOLOGY CO., LTD.
0050B7 (base 16) BOSER TECHNOLOGY CO., LTD.
15F-6, 77 HSIN TAI WU ROAD
TAIPEI HSIEN
TW

00-50-78 (hex) MEGATON HOUSE, LTD.
005078 (base 16) MEGATON HOUSE, LTD.
ZIP: 224 NO.1-3-5 NAKAMACHIBAI
YOKOHAMA
JP

00-50-02 (hex) OMNISEC AG
005002 (base 16) OMNISEC AG
RIETSTRASSE 14
CH-8108 DAELLIKON
CH

00-50-3F (hex) ANCHOR GAMES
00503F (base 16) ANCHOR GAMES
815 PILOT ROAD - STE
LAS VEGAS NV 89119
US

00-90-E6 (hex) ALi Corporation

0090E6 (base 16) ALi Corporation
6F, 246 NeiHu Road, Sec. 1
Taipei 114
TW

00-90-70 (hex) NEO NETWORKS, INC.
009070 (base 16) NEO NETWORKS, INC.
10300 BREN ROAD EAST
MINNETONKA
MN 55343
US

00-90-30 (hex) HONEYWELL-DATING
009030 (base 16) HONEYWELL-DATING
VIA TINTORETTO, 15
21012 CASSANO MAGNAGO (VA)
IT

00-90-08 (hex) HanA Systems Inc.
009008 (base 16) HanA Systems Inc.
EAHO B/D 740-1
SEOUL
KR

00-90-88 (hex) BAXALL SECURITY LTD.
009088 (base 16) BAXALL SECURITY LTD.
UNIT 1 CASTLEHILL
STOCKPORT Great Britain SK6 2SV
GB

00-90-6C (hex) Sartorius Hamburg GmbH
00906C (base 16) Sartorius Hamburg GmbH
Meiendorferstraße 205
Hamburg D-22145
DE

00-90-A4 (hex) ALTIGA NETWORKS
0090A4 (base 16) ALTIGA NETWORKS
124 GROVE STREET
FRANKLIN MA 02038-3206
US

00-50-D0 (hex) MINERVA SYSTEMS
0050D0 (base 16) MINERVA SYSTEMS
1585 CHARLESTON ROAD
MOUNTAIN VIEW CA 84943
US

00-50-D8 (hex) UNICORN COMPUTER CORP.
0050D8 (base 16) UNICORN COMPUTER CORP.
7 FL., NO. 96 KWANG FU NORTH ROAD
TAIPEI
TW

00-50-B2
(hex) BRODEL GmbH
0050B2 (base 16) BRODEL GmbH
Distelbusch 24
Velbert NRW 42549
DE

00-90-76 (hex) FMT AIRCRAFT GATE SUPPORT SYSTEMS AB
009076 (base 16) FMT AIRCRAFT GATE SUPPORT SYSTEMS AB

SE-231 32 TRELLEBORG
SE

00-90-17 (hex) Zypcom, Inc
009017 (base 16) Zypcom, Inc
28400 Kohoutek Way
Union City CA 94587-1212
US

00-90-49 (hex) ENTRIDIA CORPORATION
009049 (base 16) ENTRIDIA CORPORATION
101 PARK CENTER PLAZA
SAN JOSE CA 95113-2218
US

00-90-9A (hex) ONE WORLD SYSTEMS, INC.
00909A (base 16) ONE WORLD SYSTEMS, INC.
1144 EAST ARQUES AVENUE
SUNNYVALE CA 94086
US

00-90-C2 (hex) JK microsystems, Inc.
0090C2 (base 16) JK microsystems, Inc.
1275 YUBA AVENUE
SAN PABLO CA 94806
US

00-90-AC (hex) OPTIVISION, INC.
0090AC (base 16) OPTIVISION, INC.
3450 HILLVIEW AVENUE
PALO ALTO CA 94304
US

00-90-4E (hex) DELEM BV
00904E
(base 16) DELEM BV
LUCHTHAVEN WEG 42
5657 EB EINDHOVEN
NL

00-90-ED (hex) CENTRAL SYSTEM RESEARCH CO., LTD.
0090ED (base 16) CENTRAL SYSTEM RESEARCH CO., LTD.
4-13-2 HIYOSHICHO
KOKUBUNJI-CITY TOKYO 18500032
JP

00-90-80 (hex) NOT LIMITED, INC.
009080 (base 16) NOT LIMITED, INC.
500 ALLERTON STREET, STE #102
REDWOOD CITY CA 94063
US

00-90-E8 (hex) MOXA TECHNOLOGIES CORP., LTD.
0090E8 (base 16) MOXA TECHNOLOGIES CORP., LTD.
7F, NO. 2, ALY6, LN 235
SHIENG-TIEN CITY TAIPEI
TW

00-90-A1 (hex) Flying Pig Systems/High End Systems Inc.
0090A1 (base 16) Flying Pig Systems/High End Systems Inc.
2105 Gracy Farms Lane
Austin TX 78758
US

00-90-79 (hex) ClearOne, Inc.
009079 (base 16) ClearOne, Inc.
299 WASHINGTON STREET
WOBURN MA 01801
US

00-90-F9 (hex) Imagine Communications
0090F9 (base 16) Imagine Communications
3001 Dallas Parkway, Suite 300
Frisco
TX 75034
US

00-90-89 (hex) SOFTCOM MICROSYSTEMS, INC.
009089 (base 16) SOFTCOM MICROSYSTEMS, INC.
47509 SEABRIDGE DRIVE

FREMONT CA 94538
US

00-90-EE (hex) PERSONAL COMMUNICATIONS TECHNOLOGIES
0090EE (base 16) PERSONAL COMMUNICATIONS TECHNOLOGIES
50 STILES ROAD
SALEM NH 03079
US

00-90-01 (hex) NISHIMU ELECTRONICS INDUSTRIES CO., LTD.
009001 (base 16) NISHIMU ELECTRONICS INDUSTRIES CO., LTD.
700 TATENO MITAGAWA-CHO
KANZAKI-GUN SAGA PREF.
JP

00-90-AD (hex) ASPECT ELECTRONICS, INC.
0090AD (base 16) ASPECT ELECTRONICS, INC.
12740 EARHART AVE.
AUBURN CA 95602
US

00-90-1E (hex) Selesta Ingegneria S.p.A.
00901E (base 16) Selesta Ingegneria S.p.A.
via di Francia, 28
Genova 16149
IT

00-90-75 (hex) NEC DO BRASIL S.A.
009075 (base 16) NEC DO BRASIL S.A.
RODOVIA PRESIDENTE DUTRA, KM 218
São Paulo-SP CEP - 07210-902
BR

00-90-C8 (hex) WAVERIDER COMMUNICATIONS
(CANADA) INC.
0090C8 (base 16) WAVERIDER COMMUNICATIONS (CANADA) INC.

British Columbia V1E 4R9
CA

00-90-1B (hex) DIGITAL CONTROLS
00901B (base 16) DIGITAL CONTROLS
305 PIONEER BLVD.
SPRINGBORO OH 45066-1100
US

00-90-43 (hex) Tattile SRL
009043 (base 16) Tattile SRL

1-13-10 SHIROGANE CHUO-KU
FUKUOKA-CITY
JP

00-10-69 (hex) HELIOSS COMMUNICATIONS, INC.
001069 (base 16) HELIOSS COMMUNICATIONS, INC.
391 TOTTEM POND RD.- STE#303
WALTHAM MA 02154
US

00-10-BF (hex) InterAir Wireless
0010BF (base 16) InterAir Wireless
485 CAYUGA ROAD
BUFFALO NY 14225-0222
US

00-10-36 (hex) INTER-TEL INTEGRATED SYSTEMS
001036 (base 16) INTER-TEL INTEGRATED SYSTEMS
7300 W. BOSTON STREET
CHANDLER AZ 85226
US

00-10-26 (hex) ACCELERATED NETWORKS, INC.
001026 (base 16) ACCELERATED NETWORKS, INC.
31238 VIA COLINAS, UNIT
WESTLAKE VILLAGE CA 91362
US

00-10-AC
(hex) IMCI TECHNOLOGIES
0010AC (base 16) IMCI TECHNOLOGIES
8401 OLD COURT HKOUSE RD
VIENNA VA 22182
US

00-90-F7 (hex) NBASE COMMUNICATIONS LTD.
0090F7 (base 16) NBASE COMMUNICATIONS LTD.
INDUSTRIAL PARK

IL

00-90-12 (hex) GLOBESPAN SEMICONDUCTOR, INC.
009012 (base 16) GLOBESPAN SEMICONDUCTOR, INC.
100 SCHULZ DRIVE
RED BANK NJ 07701
US

00-90-8A (hex) BAYLY COMMUNICATIONS, INC.

00908A (base 16) BAYLY COMMUNICATIONS, INC.
105 GREEN COURT
AJAX Ontario L1S 6W9
CA

00-90-0E (hex) HANDLINK TECHNOLOGIES, INC.
00900E (base 16) HANDLINK TECHNOLOGIES, INC.
5F, 24-2, Industry E. Road IV,
Hsinchu 30077
TW

00-90-E4 (hex) NEC AMERICA, INC.
0090E4 (base 16) NEC AMERICA, INC.
3100 N.E. SHUTE ROAD
HILLSBORO OR 97124
US

00-10-7D (hex) AURORA COMMUNICATIONS, LTD.
00107D (base 16) AURORA COMMUNICATIONS, LTD.
P.O. BOX 1942
NSW 2113
AU

00-10-39
(hex) Vectron Systems AG
001039 (base 16) Vectron Systems AG
Willy-Brandt-Weg 41
48155 Muenster
DE

00-10-B6 (hex) ENTRATA COMMUNICATIONS CORP.
0010B6 (base 16) ENTRATA COMMUNICATIONS CORP.
574 HERITAGE RD.
SOUTHBURY CT 06488
US

00-10-EC (hex) Embedded Planet
0010EC (base 16) Embedded Planet
31225 Bainbridge Road, Suite N
Solon OH 44139
US

00-10-59 (hex) DIABLO RESEARCH CO. LLC
001059 (base 16) DIABLO RESEARCH CO. LLC
825 STEWART DRIVE
SUNNYVALE CA 94086
US

00-10-23 (hex) Network Equipment Technologies
001023 (base 16) Network Equipment Technologies
6900 Paseo Padre Parkway
Freemont CA 94555-3660
US

00-10-2B (hex) UMAX DATA SYSTEMS, INC.
00102B (base 16) UMAX DATA SYSTEMS, INC.
NO. 1-1, R&D ROAD 2
HSINCHU
TW

00-10-8D (hex) Johnson Controls, Inc.
00108D (base 16) Johnson Controls, Inc.
507 E. Michigan St.
Milwaukee WI
53201
US

00-10-45 (hex) Nortel Networks
001045 (base 16) Nortel Networks
OPTera Solutions Division
Kanata Ontario K2K-2X3
CA

00-90-47 (hex) GIGA FAST E. LTD.
009047 (base 16) GIGA FAST E. LTD.
14F, NO.112, SEC. 1
Hsi-Chih Taipei Hsien
TW

00-90-E1 (hex) TELENA S.P.A.
0090E1 (base 16) TELENA S.P.A.
VIA SAVONA, 146
20144 MILANO
IT

00-90-CB (hex) Wireless OnLine, Inc.
0090CB (base 16) Wireless OnLine, Inc.
4410 EL CAMINO REAL, STE #101
LOS ALTOS CA 94022
US

00-10-63 (hex) STARGUIDE DIGITAL NETWORKS
001063 (base 16) STARGUIDE DIGITAL NETWORKS
5754 PACIFIC CENTER BLVD.
SAN DIEGO CA 92121
US

00-10-FC (hex) BROADBAND NETWORKS, INC.
0010FC (base 16) BROADBAND NETWORKS, INC.
37 STEVENSON ROAD
WINNIPEG, MANITOBA R3H 0H9
CA

00-10-31 (hex) OBJECTIVE COMMUNICATIONS, INC.
001031 (base 16) OBJECTIVE COMMUNICATIONS, INC.
75 ROCHESTER AVE.
PORTSMOUTH
NH 03801
US

00-10-6D (hex) Axxcelera Broadband Wireless
00106D (base 16) Axxcelera Broadband Wireless
1600 East Parham Road
Richmond VA 23228
US

00-90-C1 (hex) Peco II, Inc.
0090C1 (base 16) Peco II, Inc.
7060 Huntley Road
Columbus OH 43229
US

00-90-40 (hex) Siemens Network Convergence LLC
009040 (base 16) Siemens Network Convergence LLC
Ten Technology Park Drive
Westford MA 01886-3146
US

00-90-B7 (hex) DIGITAL LIGHTWAVE, INC.
0090B7 (base 16) DIGITAL LIGHTWAVE, INC.
601 CLEVELAND STREET- 5TH FL.
CLEARWATER FL 33755
US

00-90-A0 (hex) 8X8 INC.
0090A0 (base 16) 8X8 INC.
2445 MISSION COLLEGE BLVD.
SANTA CLARA CA 95054
US

00-90-32 (hex) PELCOMBE GROUP LTD.
009032 (base 16) PELCOMBE GROUP LTD.
MAIN ROAD
ESSEX C012 4LP

GB

00-10-30 (hex) EION Inc.
001030 (base 16) EION Inc.
320 March Road
Ottawa ON K2K 2E3
CA

00-10-62
(hex) NX SERVER, ILNC.
001062 (base 16) NX SERVER, ILNC.
5401 E. LA PALMA AVE.
ANAHEIM CA 92807
US

00-10-F0 (hex) RITTAL-WERK RUDOLF LOH GmbH & Co.
0010F0 (base 16) RITTAL-WERK RUDOLF LOH GmbH & Co.
AUF DEM STUTZELBERG
D-35745 HERBORN
DE

00-10-01 (hex) Citel
001001 (base 16) Citel
Loughborough Innovation Centre
Loughborough LE11 3EH
GB

00-10-5C (hex) QUANTUM DESIGNS (H.K.) LTD.
00105C (base 16) QUANTUM DESIGNS (H.K.) LTD.
5/F., SOMERSET HOUSE, TAIKOO PLACE
QUARRY BAY
HK

00-10-CF (hex) FIBERLANE COMMUNICATIONS
0010CF (base 16) FIBERLANE COMMUNICATIONS
1318 REDWOOD WAY, #200
PETALUMA CA 94954
US

00-10-A4 (hex) XIRCOM
0010A4 (base 16) XIRCOM
2300 CORPORATE CENTER DR.
THOUSAND OAKS CA 91320
US

00-10-75 (hex) Segate Technology LLC
001075 (base 16) Segate Technology LLC
10200 S De Anza Blvd

Cupertino CA 95014
US

00-10-B1
(hex) FOR-A CO., LTD.
0010B1 (base 16) FOR-A CO., LTD.
2-3-3 OOSAKU
CHIBA PREF. 285
JP

00-10-EE (hex) CTI PRODUCTS, INC.
0010EE (base 16) CTI PRODUCTS, INC.
1211 W. SHARON RD.
CINCINNATI OH 45240
US

00-10-41 (hex) BRISTOL BABCOCK, INC.
001041 (base 16) BRISTOL BABCOCK, INC.
1100 BUCKINGHAM STREET
WATERTOWN CT 06795
US

00-10-AA (hex) MEDIA4, INC.
0010AA (base 16) MEDIA4, INC.
250 14TH ST. NW - STE #4002
ATLANTA GA 30318
US

00-10-E8 (hex) TELOCITY, INCORPORATED
0010E8 (base 16) TELOCITY, INCORPORATED
992 SOUTH DE ANZA BLVD
SAN JOSE CA 95129
US

00-10-A2 (hex) TNS
0010A2 (base 16) TNS
800 Third Street, Suite B100
HERNDON VA 20170
US

00-10-00 (hex) CABLE TELEVISION LABORATORIES, INC.
001000 (base 16) CABLE TELEVISION LABORATORIES, INC.
858 Coal Creek Circle
Louisville CO 80027
US

00-10-09 (hex) HORANET
001009 (base 16) HORANET

ZI Route de Niort – BP 70328
FONTENAY LE COMTE CEDEX VENDEE 85206
FR

00-10-F8 (hex) TEXIO TECHNOLOGY CORPORATION
0010F8 (base 16) TEXIO TECHNOLOGY CORPORATION
2-18-13 Shin Yokohama,
222-0033
JP

00-10-66 (hex) ADVANCED CONTROL SYSTEMS, INC.
001066 (base 16) ADVANCED CONTROL SYSTEMS, INC.
2755 NORTHWOODS PARKWAY
NORCROSS GA 30071
US

00-10-4C (hex) Teledyne LeCroy, Inc
00104C (base 16) Teledyne LeCroy, Inc
3385 Scott Blvd.
Santa Clara CA 95054
US

00-10-CC (hex) CLP COMPUTER LOGISTIK PLANUNG GmbH
0010CC (base 16) CLP COMPUTER LOGISTIK PLANUNG GmbH
BASSERMANNSTR. 21
D-81245 MUENCHEN
DE

00-10-57 (hex) Rebel.com, Inc.
001057 (base 16) Rebel.com, Inc.
150 ISABELLA STREET--STE. 1000
OTTAWA, ONTARIO K1S 1V7
CA

00-10-65 (hex) RADYNE CORPORATION
001065 (base 16) RADYNE CORPORATION
5225 S. 37TH STREET
PHOENIX AZ 85040
US

00-10-1D (hex) WINBOND
ELECTRONICS CORP.
00101D (base 16) WINBOND ELECTRONICS CORP.
NO. 4, CREATION RD. III
HSIN CHU
TW

00-10-02 (hex) ACTIA
001002 (base 16) ACTIA
25 CHEMIN DE POUVOURVILLE
31432 TOULOUSE, CEDEX 04
FR

00-10-5B (hex) NET INSIGHT AB
00105B (base 16) NET INSIGHT AB
Västberga Allé 9
SE-1260 30 Hägersten
SE

00-10-EB (hex) SELSIUS SYSTEMS, INC.
0010EB (base 16) SELSIUS SYSTEMS, INC.
5057 KELLER SPRINGS RD.
DALLAS TX 75248
US

00-10-9F (hex) PAVO, INC.
00109F (base 16) PAVO, INC.
95 YESLER WAY
SEATTLE WA 98104
US

00-10-84 (hex) K-BOT COMMUNICATIONS
001084 (base 16) K-BOT COMMUNICATIONS
P.O. BOX 410
NORTON MA 02766
US

00-10-F9 (hex) UNIQUE SYSTEMS, INC.
0010F9 (base 16) UNIQUE SYSTEMS, INC.
181 DON PARK RD
MARKHAM, ONTARIO L3R 1C2
CA

00-10-D0 (hex) WITCOM, LTD.
0010D0 (base 16) WITCOM, LTD.
P.O.B. 2250
HAIFA
31021
IL

00-10-93 (hex) CMS COMPUTERS, LTD.
001093 (base 16) CMS COMPUTERS, LTD.
201 ARCADIA
MUMBAI 400 0021
IN

00-10-8F (hex) RAPTOR SYSTEMS
00108F (base 16) RAPTOR SYSTEMS
69 HICKORY AVE.
WALTHAM MA 02154
US

00-10-F1 (hex) I-O CORPORATION
0010F1 (base 16) I-O CORPORATION
2256 SOUTH 3600 WEST
SALT LAKE CITY UT 84119
US

00-10-C0 (hex) ARMA, Inc.
0010C0 (base 16) ARMA, Inc.
4851 Northshore Lane
North Little Rock AR 72118
US

00-E0-08 (hex) AMAZING CONTROLS! INC.
00E008 (base 16) AMAZING CONTROLS! INC.
1615 WYATT DRIVE
SANTA CLARA CA 95054
US

00-E0-AE (hex) XAQTI CORPORATION
00E0AE (base 16) XAQTI CORPORATION
1630 OAKLAND RD. #A-214
SAN JOSE CA 95131
US

00-E0-E0 (hex) SI ELECTRONICS, LTD.
00E0E0 (base 16) SI ELECTRONICS, LTD.
28-16, SHIMOMARUKO 2-CHOME,
TOKYO 146
JP

00-E0-C8 (hex) VIRTUAL ACCESS, LTD.
00E0C8 (base
16) VIRTUAL ACCESS, LTD.
WOODSIDE HOUSE, WINKFIELD,
WINDSOR, BERKSHIRE SL4 2DX ENGLAND
GB

00-E0-06 (hex) SILICON INTEGRATED SYS. CORP.
00E006 (base 16) SILICON INTEGRATED SYS. CORP.
16, CREATION RD. I
HSIN CHU

TW

00-E0-AC (hex) MIDSCO, INC.
00E0AC (base 16) MIDSCO, INC.
710 ROUTE 46 EAST
FAIRFIELD NJ 07004
US

00-E0-95 (hex) ADVANCED-VISION TECHNOLGIES CORP.
00E095 (base 16) ADVANCED-VISION TECHNOLGIES CORP.
8F-1, 87 SECTION 3, CHUNG YANG RD,
Tu Cheng Taipei
TW

00-E0-0E (hex) AVALON IMAGING SYSTEMS, INC.
00E00E (base 16) AVALON IMAGING SYSTEMS, INC.
3133 INDIAN ROAD
BOULDER CO 80301
US

08-BB-CC (hex) AK-NORD EDV VERTRIEBSGES. mbH
08BBCC (base 16) AK-NORD EDV VERTRIEBSGES. mbH
FRIEDRICHSTRASSE 10
25436 TORNESCH
DE

00-E0-03 (hex) NOKIA WIRELESS BUSINESS COMMUN
00E003 (base 16) NOKIA WIRELESS BUSINESS COMMUN
ACCESS POINT PRODUCTS GROUP
CB4
0WS
GB

00-E0-48 (hex) SDL COMMUNICATIONS, INC.
00E048 (base 16) SDL COMMUNICATIONS, INC.
P.O. BOX 1303
EASTON MA 02334
US

00-E0-CB (hex) RESON, INC.
00E0CB (base 16) RESON, INC.
300 LOPEZ ROAD
GOLETA CA 93117
US

00-E0-FA (hex) TRL TECHNOLOGY, LTD.
00E0FA (base 16) TRL TECHNOLOGY, LTD.
SHANNON WAY, ASHCHURCH,

TEWKESBURY, GLOS. GL20 8ND
GB

00-E0-2C (hex) AST COMPUTER
00E02C (base 16) AST COMPUTER
16215 ALTON PARKWAY
IRVINE CA 92718
US

00-E0-67 (hex) eac AUTOMATION-CONSULTING GmbH
00E067 (base 16) eac AUTOMATION-CONSULTING GmbH
HERMSDORFER DAMM 222
73467 BERLIN
DE

00-E0-9F (hex) PIXEL VISION
00E09F (base 16) PIXEL VISION
43 NAGOG PARK
ACTON MA 01720
US

00-E0-DB (hex) ViaVideo Communications, Inc.
00E0DB (base 16) ViaVideo Communications, Inc.
8900 SHOAL CREEK BLVD.
AUSTIN TX 78757
US

00-E0-A6 (hex) TELOGY NETWORKS,
INC.
00E0A6 (base 16) TELOGY NETWORKS, INC.
20250 CENTURY BLVD.
GERMANTOWN MD 20874
US

00-E0-F3 (hex) WebSprint Communications, Inc.
00E0F3 (base 16) WebSprint Communications, Inc.
3026 SCOTT BLVD.
SANTA CLARA CA 95054
US

00-E0-CC (hex) HERO SYSTEMS, LTD.
00E0CC (base 16) HERO SYSTEMS, LTD.
THE BARNES, COOMBELANDS LANE,
SURREY KT15 1HY ENGLAND
GB

00-E0-80 (hex) CONTROL RESOURCES CORPORATION
00E080 (base 16) CONTROL RESOURCES CORPORATION

16-00 POLLITT DRIVE
FAIR LAWN NJ 07410
US

00-E0-04 (hex) PMC-SIERRA, INC.
00E004 (base 16) PMC-SIERRA, INC.
105-8555 BAXTER PLACE
BURNABY, BC V5A 4V7
CA

00-E0-3B (hex) PROMINET CORPORATION
00E03B (base 16) PROMINET CORPORATION
110 TURNPIKE RD. - STE. #208
WESTBOROUGH MA 01581
US

00-E0-F5 (hex) TELES AG
00E0F5 (base 16) TELES AG
DOVESTR. 2-4
10587 BERLIN
DE

00-E0-D7 (hex) SUNSHINE ELECTRONICS,
INC.
00E0D7 (base 16) SUNSHINE ELECTRONICS, INC.
46560 FREMONT BLVD. -STE. #113
FREMONT CA 94538
US

00-E0-B5 (hex) ARDENT COMMUNICATIONS CORP.
00E0B5 (base 16) ARDENT COMMUNICATIONS CORP.
3801 ZANKER ROAD, Suite A
SAN JOSE CA 95134
US

00-E0-F1 (hex) THAT CORPORATION
00E0F1 (base 16) THAT CORPORATION
734 FOREST STREET
MARLBOROUGH MA 01752
US

00-E0-AF (hex) GENERAL DYNAMICS INFORMATION SYSTEMS
00E0AF (base 16) GENERAL DYNAMICS INFORMATION SYSTEMS
COMPUTING DEVICES, LTD.
FALLS CHURCH VA 22042-4523
US

00-E0-54 (hex) KODAI HITEC CO., LTD.

00E054 (base 16) KODAI HITEC CO., LTD.
2-45 ONUMA HANYU CITY
SAITAMA.348
JP

00-E0-B9 (hex) BYAS SYSTEMS
00E0B9 (base 16) BYAS SYSTEMS
2250 MONROE STREET, #371
SANTA CLARA CA 95050
US

00-60-4B (hex) Safe-com GmbH & Co. KG
00604B (base 16) Safe-com GmbH & Co. KG
Burg Lichtenfels 1
35104 Lichtenfels

DE

00-60-6B (hex) Synclayer Inc.
00606B (base 16) Synclayer Inc.
1-20 Himegaoka
GIFU 509-0249
JP

00-60-3B (hex) AMTEC spa
00603B (base 16) AMTEC spa
LOC. S. MARTINO
53025 PIANCASTAGNAIO (SIENA)
IT

00-E0-2A (hex) TANDBERG TELEVISION AS
00E02A (base 16) TANDBERG TELEVISION AS
PHILIP PEDERSENS V 20
N-1324 LYSAKER
NO

00-E0-4E (hex) SANYO DENKI CO., LTD.
00E04E (base 16) SANYO DENKI CO., LTD.
812-3, Shimonogou, Ueda-Shi
Nagano 386-1211
JP

00-E0-12 (hex) PLUTO TECHNOLOGIES INTERNATIONAL INC.
00E012 (base 16) PLUTO TECHNOLOGIES INTERNATIONAL INC.
2511 55TH STREET
BOULDER CO 80301
US

00-E0-4C (hex) REALTEK SEMICONDUCTOR CORP.
00E04C (base 16) REALTEK SEMICONDUCTOR CORP.
1F, NO. 11, INDUSTRY E. RD. IX
HSINCHU 300
TW

00-E0-EF (hex) DIONEX
00E0EF (base 16) DIONEX
PO BOX 3603
SUNNYVALE CA 94088-3603
US

00-E0-51 (hex) TALX
CORPORATION
00E051 (base 16) TALX CORPORATION
1850 BORMAN COURT
ST. LOUIS MO 63146
US

00-E0-39 (hex) PARADYNE CORP.
00E039 (base 16) PARADYNE CORP.
8545 126TH AVENUE NORTH
LARGO FL 33773
US

00-60-0B (hex) LOGWARE GmbH
00600B (base 16) LOGWARE GmbH
SCHWEDENSTR. 9
D-13359 BERLIN
DE

00-60-D5 (hex) AMADA MIYACHI Co., Ltd
0060D5 (base 16) AMADA MIYACHI Co., Ltd
95-3, FUTASUZUKA NODA
CHIBA 278-0016
JP

00-60-3F (hex) PATAPSCO DESIGNS
00603F (base 16) PATAPSCO DESIGNS
5350 PARTNERS COURT
FREDERICK MD 21703
US

00-E0-2D (hex) InnoMediaLogic, Inc.
00E02D (base 16) InnoMediaLogic, Inc.
3653 CHEMIN CHAMBLY
LONGUEUIL, QUEBEC J4L J4L IN9
CA

00-E0-35 (hex) Artesyn Embedded Technologies
00E035 (base 16) Artesyn Embedded Technologies
2900 S. Diablo Way
Tempe AZ 85282
US

00-E0-90 (hex) BECKMAN LAB. AUTOMATION DIV.
00E090 (base 16) BECKMAN
LAB. AUTOMATION DIV.
90 BOROLINE ROAD
ALLENDALE NJ 07401
US

00-E0-85 (hex) GLOBAL MAINTECH, INC.
00E085 (base 16) GLOBAL MAINTECH, INC.
6468 CITY WEST PARKWAY
EDEN PRAIRIE MN 55344
US

00-E0-BE (hex) GENROCO INTERNATIONAL, INC.
00E0BE (base 16) GENROCO INTERNATIONAL, INC.
255 ENDERS COURT
SLINGER WI 53086
US

00-60-01 (hex) InnoSys, Inc.
006001 (base 16) InnoSys, Inc.
3095 RICHMOND PKWY #207
RICHMOND CA 94806
US

00-60-FE (hex) LYNX SYSTEM DEVELOPERS, INC.
0060FE (base 16) LYNX SYSTEM DEVELOPERS, INC.
175N NEW BOSTON STREET
WOBURN MA 01801
US

00-60-BD (hex) Enginuity Communications
0060BD (base 16) Enginuity Communications
3545 Stern Avenue
St Charles IL 60174
US

00-08-00 (hex) MULTITECH SYSTEMS, INC.
000800 (base 16) MULTITECH SYSTEMS, INC.
2205 WOODALE DRIVE
MOUNDS VIEW MN 55112

US

00-E0-68 (hex) MERRIMAC SYSTEMS INC.
00E068
(base 16) MERRIMAC SYSTEMS INC.
2144 MC COY ROAD
CARROLLTON TX 75006
US

00-E0-49 (hex) MICROWI ELECTRONIC GmbH
00E049 (base 16) MICROWI ELECTRONIC GmbH
ZUSAMSTRASSE 8
D 86165 AUGSBURG
DE

00-E0-50 (hex) EXECUTONE INFORMATION SYSTEMS, INC.
00E050 (base 16) EXECUTONE INFORMATION SYSTEMS, INC.
478 WHEELERS FARMS ROAD
MILFORD CT 06460
US

00-E0-23 (hex) TELRAD
00E023 (base 16) TELRAD
P.O. BOX 50
LOD 71100
IL

00-E0-B6 (hex) Entrada Networks
00E0B6 (base 16) Entrada Networks
9020 JUNCTION DRIVE
ANNAPOLIS JUNCTION MD 20701
US

00-E0-F4 (hex) INSIDE Technology A/S
00E0F4 (base 16) INSIDE Technology A/S
VENLIGHEDSVEJ 6
DK-2970 HOERSHOLM
DK

00-E0-A0 (hex) WILTRON CO.
00E0A0 (base 16) WILTRON CO.
490 JARVIS DRIVE
MORGAN HILL CA 95037
US

00-E0-C7 (hex) EUROTECH SRL
00E0C7 (base 16) EUROTECH SRL
VIA JACOPO LINUSSIO 1

33030
AMAROO (UD)
IT

00-60-B5 (hex) KEBA GmbH
0060B5 (base 16) KEBA GmbH
GEWERBEPARK URFAHR
A-4041 LINZ
AT

00-60-42 (hex) TKS (USA), INC.
006042 (base 16) TKS (USA), INC.
1201 COMMERCE
RICHARDSON TX 75081
US

00-60-79 (hex) Mainstream Data, Inc.
006079 (base 16) Mainstream Data, Inc.
375 Chipeta Way, Suite B
Salt Lake City UT 84108
US

00-60-9A (hex) NJK TECHNO CO.
00609A (base 16) NJK TECHNO CO.
N1-25 KAMIYASATO
KOMATSU #923
JP

00-60-2B (hex) PEAK AUDIO
00602B (base 16) PEAK AUDIO
1790 30TH STREET STE #414
BOULDER CO 80301
US

00-60-F1 (hex) EXP COMPUTER, INC.
0060F1 (base 16) EXP COMPUTER, INC.
141 EILEEN WAY
SYOSSET NY 11791
US

00-05-A8 (hex) WYLE ELECTRONICS
0005A8 (base 16) WYLE ELECTRONICS
3000 BOWERS AVENUE
SANTA CLARA CA 95051-0919
US

00-60-E6 (hex) SHOMITI SYSTEMS INCORPORATED
0060E6 (base 16) SHOMITI SYSTEMS

INCORPORATED
2099 GATEWAY PLACE - STE.#220
SAN JOSE CA 95110
US

00-60-FF (hex) QuVis, Inc.
0060FF (base 16) QuVis, Inc.
2921 SW WANAMAKER DRIVE
TOPEKA KS 66614
US

00-60-67 (hex) ACER NETXUS INC.
006067 (base 16) ACER NETXUS INC.
5F-3, 5 HSIN ANN ROAD SBIP
HSINCHU 300
TJ

00-60-9F (hex) PHAST CORPORATION
00609F (base 16) PHAST CORPORATION
79 WEST 4500 SOUTH - BLDG.#14
SALT LAKE CITY UT 84107
US

00-60-40 (hex) NETRO CORP.
006040 (base 16) NETRO CORP.
3120 SCOTT BLVD.
SANTA CLARA CA 95054
US

00-60-CC (hex) EMTRAK, INCORPORATED
0060CC (base 16) EMTRAK, INCORPORATED
7150 CAMPUS DRIVE, STE #180
COLORADO SPRINGS CO 80920
US

00-60-2C (hex) LINX Data Terminals, Inc.
00602C (base 16) LINX Data Terminals, Inc.
625 DIGITAL DRIVE-STE #100
PLANO TX 75075
US

00-60-AC (hex) RESILIENCE CORPORATION
0060AC (base 16) RESILIENCE CORPORATION
1755
EMBARCADERO ROAD-STE #120
PALO ALTO CA 94303
US

00-60-4E (hex) CYCLE COMPUTER CORPORATION, INC.
00604E (base 16) CYCLE COMPUTER CORPORATION, INC.
20245 STEVENS CREEK BLVD.
CUPERTINO CA 95014
US

00-60-AA (hex) INTELLIGENT DEVICES INC. (IDI)
0060AA (base 16) INTELLIGENT DEVICES INC. (IDI)
1718-L BELMONT AVENUE
BALTIMORE MD 21244
US

00-60-65 (hex) B&R Industrial Automation GmbH
006065 (base 16) B&R Industrial Automation GmbH
B&R Straße 1
Eggelsberg 5142
AT

00-60-5D (hex) SCANIVALVE CORP.
00605D (base 16) SCANIVALVE CORP.
1722 N. MADSON STREET
LIBERTY LAKE WA 99019
US

00-60-6F (hex) CLARION CORPORATION OF AMERICA
00606F (base 16) CLARION CORPORATION OF AMERICA
25 Commerce Drive
Allendale NJ 07401
US

00-60-14 (hex) EDEC CO., LTD.
006014 (base 16) EDEC CO., LTD.
9F OF T.O.C. BUILDING
SHINAGAWAKU, TOKYO
JP

00-60-E1 (hex) ORCKIT COMMUNICATIONS
LTD.
0060E1 (base 16) ORCKIT COMMUNICATIONS LTD.
38 NAHALAT YIZHAK STREET
TEL-AVIV 67448
IL

00-60-D2 (hex) LUCENT TECHNOLOGIES TAIWAN TELECOMMUNICATIONS CO., LTD.
0060D2 (base 16) LUCENT TECHNOLOGIES TAIWAN TELECOMMUNICATIONS CO., LTD.
#2, INNOVATION ROAD II
HSIN CHU
TW

00-60-CD (hex) VideoServer, Inc.
0060CD (base 16) VideoServer, Inc.
5 FORBES ROAD
LEXINGTON MA 02173
US

00-60-7E (hex) GIGALABS, INC.
00607E (base 16) GIGALABS, INC.
290 SANTA ANA COURT
SUNNYVALE CA 94086
US

00-60-90 (hex) Artiza Networks Inc
006090 (base 16) Artiza Networks Inc
Faret Tachikawa Center Square, 2-36-2 Akebono-cho,
Tachikawa-shi, Tokyo 190-0012
JP

00-60-30 (hex) VILLAGE TRONIC ENTWICKLUNG
006030 (base 16) VILLAGE TRONIC ENTWICKLUNG
WELLWEG 95
31157 SARSTEDT
DE

00-60-25 (hex) ACTIVE IMAGING PLC
006025 (base 16) ACTIVE IMAGING PLC
HATTORI HOUSE
MAIDENHEAD
Berkshire SL6 4UB
GB

00-60-A7 (hex) MICROSENS GmbH & CO. KG
0060A7 (base 16) MICROSENS GmbH & CO. KG
Kueferstrasse 16
D-59067 Hamm
DE

00-60-E5 (hex) FUJI AUTOMATION CO., LTD.
0060E5 (base 16) FUJI AUTOMATION CO., LTD.
3-23-10, NEGISHI
URAWA-SHI, 336 SAITAMA
US

00-60-5E (hex) LIBERTY TECHNOLOGY NETWORKING
00605E (base 16) LIBERTY TECHNOLOGY NETWORKING
P.O. BOX 11566
HATFIELD, PRETORIA 0028

ZA

00-A0-9C (hex) Xyplex, Inc.
00A09C (base 16) Xyplex, Inc.
25 FOSTER STREET
LITTLETON MA 01460
US

00-A0-0D (hex) THE PANDA PROJECT
00A00D (base 16) THE PANDA PROJECT
5201 CONGRESS AVE. - C-100
BOCA RATON FL 33487
US

00-A0-E9 (hex) ELECTRONIC RETAILING SYSTEMS INTERNATIONAL
00A0E9 (base 16) ELECTRONIC RETAILING SYSTEMS INTERNATIONAL
372 DANBURY ROAD
WILTON CT 06897-2523
US

00-A0-BE (hex) INTEGRATED CIRCUIT SYSTEMS, INC. COMMUNICATIONS GROUP
00A0BE (base 16) INTEGRATED CIRCUIT SYSTEMS, INC. COMMUNICATIONS GROUP
1271 PARKMOOR AVENUE
SAN JOSE CA 95126-3448
US

00-A0-10 (hex) SYSLOGIC DATENTECHNIK AG
00A010 (base 16) SYSLOGIC DATENTECHNIK AG
Bruggerstrasse 69
CH-5400 Baden
CH

00-A0-16 (hex) MICROPOLIS CORP.
00A016 (base 16) MICROPOLIS CORP.
21211 NORDHOFF STREET
CHATSWORTH CA 91311
US

00-A0-59 (hex) HAMILTON HALLMARK
00A059 (base 16) HAMILTON HALLMARK
2105 LUNDY AVENUE
SAN JOSE CA 95131
US

00-A0-39 (hex) ROSS TECHNOLOGY, INC.
00A039 (base 16) ROSS TECHNOLOGY, INC.
5316 HWY 290 WEST - STE. #500

AUSTIN TX 78735
US

00-A0-AD (hex) MARCONI SPA
00A0AD (base 16) MARCONI SPA
VIA NEGRONE, 1A
16153 GENOVA CORNIGLIANO
IT

00-A0-D6 (hex) SBE, Inc.
00A0D6 (base 16) SBE, Inc.
4000 Executive Parkway
San Ramon CA 94583
US

00-60-C6 (hex) DCS AG
0060C6 (base 16) DCS
AG
SALZACHSTRASS 31
D-14129 BERLIN
DE

00-60-1E (hex) SOFTLAB, INC.
00601E (base 16) SOFTLAB, INC.
P.O. BOX 8
CHIMNEY ROCK CO 81127
US

00-60-0D (hex) Digital Logic GmbH
00600D (base 16) Digital Logic GmbH
Stahlwerkstraße 25
Mudersbach 57555
DE

00-60-4A (hex) SAIC IDEAS GROUP
00604A (base 16) SAIC IDEAS GROUP
7120 COLUMBIA GATEWAY DRIVE
COLUMBIA MD 21046
US

00-A0-BD (hex) I-TECH CORP.
00A0BD (base 16) I-TECH CORP.
10200 VALLEY VIEW ROAD
EDEN PRAIRIE MN 55344
US

00-A0-48 (hex) QUESTECH, LTD.
00A048 (base 16) QUESTECH, LTD.

EASTHEATH AVENUE
BERKS, RG11 2PP
GB

00-A0-FC (hex) IMAGE SCIENCES, INC.
00A0FC (base 16) IMAGE SCIENCES, INC.
7500 INNOVATION WAY
MASON OH 45040
US

00-A0-2E (hex) BRAND COMMUNICATIONS, LTD.
00A02E (base 16) BRAND COMMUNICATIONS, LTD.
ENTERPRISE HOUSE, CHIVERS WAY,
HISTON, CAMBRIDGE CB4 4ZR
GB

00-A0-F9
(hex) BINTEC COMMUNICATIONS GMBH
00A0F9 (base 16) BINTEC COMMUNICATIONS GMBH
SUEDWESTPARK 94
90449 NUERNBERG
DE

00-A0-4D (hex) EDA INSTRUMENTS, INC.
00A04D (base 16) EDA INSTRUMENTS, INC.
4 THORNCLIFFE PARK DRIVE
M4H 1H1
CA

00-A0-86 (hex) AMBER WAVE SYSTEMS, INC.
00A086 (base 16) AMBER WAVE SYSTEMS, INC.
403 MASSACHUSETTS AVENUE
ACTON MA 01720
US

00-A0-AF (hex) WMS INDUSTRIES
00A0AF (base 16) WMS INDUSTRIES
3401 N. CALIFORNIA
CHICAGO IL 60618
US

00-A0-57 (hex) LANCOM Systems GmbH
00A057 (base 16) LANCOM Systems GmbH
Adenauer Straße 20 /B2
Würselen 52146
DE

00-A0-9F (hex) COMMVISION CORP.

00A09F (base 16) COMMVISION CORP.
510 LOGUE AVE.
MOUNTAIN VIEW CA 94043
US

00-A0-B6 (hex) SANRITZ AUTOMATION CO., LTD.
00A0B6 (base 16) SANRITZ AUTOMATION CO., LTD.
4-21 MINAMI NARUSE

00-A0-79 (hex) ALPS ELECTRIC (USA),
INC.
00A079 (base 16) ALPS ELECTRIC (USA), INC.
3553 NORTH 1ST STREET
SAN JOSE CA 95134
US

00-A0-F5 (hex) RADGUARD LTD.
00A0F5 (base 16) RADGUARD LTD.
8 HANECHOSHET STREET
TEL-AVIV 69710
IL

00-A0-CA (hex) FUJITSU DENSO LTD.
00A0CA (base 16) FUJITSU DENSO LTD.
3055 ORCHARD DRIVE
SAN JOSE CA 95134
US

00-A0-22 (hex) CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING
00A022 (base 16) CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING
UNIVERSITY OF POONA CAMPUS
GANESH KHIND, Pune - 411 008
IN

00-A0-C0 (hex) DIGITAL LINK CORP.
00A0C0 (base 16) DIGITAL LINK CORP.
217 HUMBOLDT COURT
SUNNYVALE CA 94089
US

00-A0-9D (hex) JOHNATHON FREEMAN TECHNOLOGIES
00A09D (base 16) JOHNATHON FREEMAN TECHNOLOGIES
P.O. BOX 880114
SAN FRANCISCO CA 94188
US

00-A0-6E (hex) AUSTRON, INC.
00A06E (base 16) AUSTRON, INC.
P.O. BOX 14766
AUSTIN TX 78761-4766
US

00-A0-BA
(hex) PATTON ELECTRONICS CO.
00A0BA (base 16) PATTON ELECTRONICS CO.
7622 RICKENBACKER DRIVE
GAITHERSBURG MD 20879
US

00-A0-B5 (hex) 3H TECHNOLOGY
00A0B5 (base 16) 3H TECHNOLOGY
3375 SCOTT BLVD. #336
SANTA CLARA CA 95054
US

00-A0-1E (hex) EST CORPORATION
00A01E (base 16) EST CORPORATION
120 ROYALL STREET
CANTON MA 02021
US

00-A0-62 (hex) AES PRODATA
00A062 (base 16) AES PRODATA
249 BALCATTA ROAD
WESTERN AUSTRALIA 6021
AU

00-A0-AE (hex) NUCOM SYSTEMS, INC.
00A0AE (base 16) NUCOM SYSTEMS, INC.
9F-6, NO 4, LANE
TAIWAN TAIWAN R.O.C.
TW

00-A0-76 (hex) CARDWARE LAB, INC.
00A076 (base 16) CARDWARE LAB, INC.
285 SOBRANTE WAY, STE.
SUNNYVALE CA 94086
VI

00-A0-03 (hex) Siemens Switzerland Ltd., I B T HVP
00A003 (base 16) Siemens Switzerland Ltd., I B T HVP
Building Technologies Division, International Headquarters
Zug 6301
CH

00-A0-8D
(hex) JACOMO CORPORATION
00A08D (base 16) JACOMO CORPORATION
26900 E. PINK HILL ROAD
INDEPENDENCE MO 64057
US

00-A0-8E (hex) Check Point Software Technologies
00A08E (base 16) Check Point Software Technologies
8333 Ridgepoint Dr.
Irving TX 75063
US

00-A0-A1 (hex) EPIC DATA INC.
00A0A1 (base 16) EPIC DATA INC.
7280 RIVER ROAD
CANADA V6X 1X5

00-A0-44 (hex) NTT IT CO., LTD.
00A044 (base 16) NTT IT CO., LTD.

231
JP

00-A0-11 (hex) MUTOH INDUSTRIES LTD.
00A011 (base 16) MUTOH INDUSTRIES LTD.
253 KANAGAWA-KEN,

JP

00-A0-84 (hex) Dataplex Pty Ltd
00A084 (base 16) Dataplex Pty Ltd
Ground floor,
MACQUARIE PARK NSW 2113
AU

00-A0-49 (hex) DIGITECH INDUSTRIES, INC.
00A049 (base 16) DIGITECH INDUSTRIES, INC.
PO BOX 2267
DANBURY CT 06810
US

00-A0-6B (hex) DMS DORSCH MIKROSYSTEM GMBH
00A06B (base 16) DMS DORSCH MIKROSYSTEM GMBH
HOLMLUECK

13-15

DE

00-A0-30 (hex) CAPTOR NV/SA
00A030 (base 16) CAPTOR NV/SA
DE HENE 13

BE

00-A0-DE (hex) YAMAHA CORPORATION
00A0DE (base 16) YAMAHA CORPORATION
10-1 Nakazawa-cho, Naka-ku
Hamamatsu Shizuoka 430-8650
JP

00-02-67 (hex) NODE RUNNER, INC.
000267 (base 16) NODE RUNNER, INC.
2202 N. FORBES BLVD.
TUCSON AZ 85745
US

00-20-B1 (hex) COMTECH RESEARCH INC.
0020B1 (base 16) COMTECH RESEARCH INC.
24271 TAHOE
LAGUNA NIGUEL CA 92656
US

00-20-32 (hex) ALCATEL TAISEL
002032 (base 16) ALCATEL TAISEL
4, MING SHENG STREET TU-CHENG
TAIWAN ROC
TW

00-20-E9 (hex) DANTEL
0020E9 (base 16) DANTEL
P.O. BOX 55013
FRESNO CA 93727-1388
US

00-20-22 (hex) NMS Communications
002022 (base 16) NMS Communications
100 Crossing Boulevard
Framingham MA 01702
US

00-20-AE (hex) ORNET DATA COMMUNICATION TECH.
0020AE (base 16) ORNET

DATA COMMUNICATION TECH.
P.O. BOX 323

IL

00-20-AA (hex) Ericsson Television Limited
0020AA (base 16) Ericsson Television Limited
Solution Area Media
Comines Way, Hedge End Southhampton SO 30 4DA
GB

00-20-A4 (hex) MULTIPOINT NETWORKS
0020A4 (base 16) MULTIPOINT NETWORKS
19 DAVIS DRIVE
BELMONT CA 94002-3001
US

00-20-51 (hex) Verilink Corporation
002051 (base 16) Verilink Corporation
127 Jetplex Circle
Madison AL 35758
US

00-20-3B (hex) WISDM LTD.
00203B (base 16) WISDM LTD.
ST. JOHNS INNOVATION CENTRE
ENGLAND
GB

00-20-BA (hex) CENTER FOR HIGH PERFORMANCE
0020BA (base 16) CENTER FOR HIGH PERFORMANCE
COMPUTING OF WPI
MARLBORO MA 01752
US

00-20-38 (hex) VME MICROSYSTEMS INTERNATIONAL CORPORATION
002038 (base 16) VME MICROSYSTEMS INTERNATIONAL CORPORATION
12090 S. MEMORIAL PARKWAY
HUNTSVILLE AL 35803
US

00-20-A3 (hex) Harmonic,
Inc
0020A3 (base 16) Harmonic, Inc
4300 North First Street
San Jose CA 95134
US

00-20-59 (hex) MIRO COMPUTER PRODUCTS AG
002059 (base 16) MIRO COMPUTER PRODUCTS AG
CARL MIELE STR. 4
D-38112 BRAUNSCHWEIG
DE

00-20-79 (hex) MIKRON GMBH
002079 (base 16) MIKRON GMBH
BRESLAUERSTR. 1-3
85386 ECHING
DE

00-20-05 (hex) SIMPLE TECHNOLOGY
002005 (base 16) SIMPLE TECHNOLOGY
3001 DAIMLER ROAD
SANTA ANA CA 92705
US

00-20-FA (hex) GDE SYSTEMS, INC.
0020FA (base 16) GDE SYSTEMS, INC.
P.O. BOX 85468 - BLDG.#61
SAN DIEGO CA 92186-5468
US

00-A0-F8 (hex) Zebra Technologies Inc
00A0F8 (base 16) Zebra Technologies Inc
475 Half Day Road
Lincolnshire IL 60069
US

00-20-80 (hex) SYNERGY (UK) LTD.
002080 (base 16) SYNERGY (UK) LTD.
HARTCRAN HOUSE
WATFORD HERTS. WD1 5EZ
GB

00-20-18 (hex) CIS TECHNOLOGY INC.
002018 (base 16) CIS TECHNOLOGY INC.
FL.
9-1, NO. 94, PAO CHUNG RD.
TAIPEI HSIEN
TW

00-20-98 (hex) HECTRONIC AB
002098 (base 16) HECTRONIC AB
BOX 3002
S-75003 UPPSALA
SE

00-20-FD (hex) ITV TECHNOLOGIES, INC.
0020FD (base 16) ITV TECHNOLOGIES, INC.
6800 OWENSMOUTH AVE. #230
CANOGA PARK CA 91303
US

00-20-34 (hex) ROTEC INDUSTRIEAUTOMATION GMBH
002034 (base 16) ROTEC INDUSTRIEAUTOMATION GMBH
GUTENBERGSTR. 15

DE

00-20-0C (hex) ADASTRA SYSTEMS CORP.
00200C (base 16) ADASTRA SYSTEMS CORP.
28310 INDUSTRIAL BLVD.-STE-K
HAYWARD CA 94545
US

00-20-11 (hex) CANOPUS CO., LTD.
002011 (base 16) CANOPUS CO., LTD.
KOBE HI-TECH PARK
651-22
JP

00-C0-23 (hex) TUTANKHAMON ELECTRONICS
00C023 (base 16) TUTANKHAMON ELECTRONICS
2446 ESTAND WAY
PLEASANT HILL CA 94523
US

00-C0-8B (hex) RISQ MODULAR SYSTEMS, INC.
00C08B (base 16) RISQ MODULAR SYSTEMS, INC.
39899 BALENTINE DRIVE-STE
#375
NEWARK CA 94560
US

00-20-C4 (hex) INET,INC.
0020C4 (base 16) INET,INC.
801 E. CAMPBELL-STE.#330
RICHARDSON TX 75081
US

00-20-6D (hex) DATA RACE, INC.
00206D (base 16) DATA RACE, INC.
11550 IH-10WEST STE#395
SAN ANTONIO TX 78230

US

00-20-3A (hex) DIGITAL BI0METRICS INC.
00203A (base 16) DIGITAL BI0METRICS INC.
5600 ROWLAND ROAD- STE.#205
MINNETONKA MN 55364
US

00-20-0E (hex) NSSLGlobal Technologies AS
00200E (base 16) NSSLGlobal Technologies AS
Martin Linges vei 25
Fornebu 1364
NO

00-C0-B4 (hex) MYSON TECHNOLOGY, INC.
00C0B4 (base 16) MYSON TECHNOLOGY, INC.
2F, NO. 3, INDUSTRY E. RD.IV
TAIWAN
TW

00-C0-80 (hex) NETSTAR, INC.
00C080 (base 16) NETSTAR, INC.
CEDAR BUSINESS CENTER
MINNEAPOLIS MN 55425-1235
US

00-C0-C3 (hex) ACUSON COMPUTED SONOGRAPHY
00C0C3 (base 16) ACUSON COMPUTED SONOGRAPHY
1220 CHARLESTON ROAD
MOUNTAIN
VIEW CA 94039-7393
US

00-C0-B3 (hex) COMSTAT DATACOMM CORPORATION
00C0B3 (base 16) COMSTAT DATACOMM CORPORATION
1720 SPECTRUM DRIVE
LAWRENCEVILLE GA 30243
US

00-C0-E5 (hex) GESPAC, S.A.
00C0E5 (base 16) GESPAC, S.A.
CHEMIN DES AULX 18

CH

00-C0-4D (hex) MITEC, INC.
00C04D (base 16) MITEC, INC.
BR-KAMEIDO 1 BUILDING

JP

00-20-68 (hex) ISDYNE
002068 (base 16) ISDYNE
11 ROXBURY AVENUE
NATICK MA 01760
US

00-20-C8 (hex) LARSCOM INCORPORATED
0020C8 (base 16) LARSCOM INCORPORATED
4600 PATRICK HENRY DRIVE
SANTA CLARA CA 95054
US

00-20-9D (hex) LIPPERT AUTOMATIONSTECHNIK
00209D (base 16) LIPPERT AUTOMATIONSTECHNIK
D-68165 MANNHEIM

DE

00-20-9C (hex) PRIMARY ACCESS CORP.
00209C (base 16) PRIMARY ACCESS CORP.
10080 CARROLL CANYON RD
SAN DIEGO CA 92131
US

00-20-E7 (hex) B&W NUCLEAR SERVICE COMPANY
0020E7 (base
16) B&W NUCLEAR SERVICE COMPANY
SPECIAL PRODUCTS & INTEG.SVCS.
LYNCHBURG VA 24502
US

00-20-F0 (hex) UNIVERSAL MICROELECTRONICS CO.
0020F0 (base 16) UNIVERSAL MICROELECTRONICS CO.
3, 27TH RD., TAICHUNG IND.PARK
TAIWAN TAIWAN R.O.C.
TW

00-20-89 (hex) T3PLUS NETWORKING, INC.
002089 (base 16) T3PLUS NETWORKING, INC.
2840 SAN TOMAS EXPRESSWAY
SANTA CLARA CA 95051
US

00-20-F5 (hex) PANDATEL AG
0020F5 (base 16) PANDATEL AG

FASANENWEG 25

DE

00-20-74 (hex) SUNGWOON SYSTEMS
002074 (base 16) SUNGWOON SYSTEMS
YUSUN BLDG.44-4
KOREA
KR

00-20-3C (hex) EUROTIME AB
00203C (base 16) EUROTIME AB
BOX 277

SE

00-20-28 (hex) WEST EGG SYSTEMS, INC.
002028 (base 16) WEST EGG SYSTEMS, INC.
65 HIGH RIDGE ROAD-STE.#286
STAMFORD CT 06905
US

00-20-61 (hex) GarrettCom, Inc.
002061 (base 16) GarrettCom, Inc.
47823 Westinghouse Dr.
Fremont
CA 94539
US

00-20-DC (hex) DENSITRON TAIWAN LTD.
0020DC (base 16) DENSITRON TAIWAN LTD.
KYOWA NANABANKAN 5F

JP

00-20-48 (hex) Marconi Communications
002048 (base 16) Marconi Communications
1000 Fore Drive
Warrendale PA 15086-7502
US

00-C0-0D (hex) ADVANCED LOGIC RESEARCH, INC.
00C00D (base 16) ADVANCED LOGIC RESEARCH, INC.
9401 JERONIMO
IRVINE CA 92618
US

00-C0-81 (hex) METRODATA LTD.

00C081 (base 16) METRODATA LTD.
BLENHEIM HOUSE
TW20 8RY TW20 8RY ENGLAND
GB

00-C0-3B (hex) MULTIACCESS COMPUTING CORP.
00C03B (base 16) MULTIACCESS COMPUTING CORP.
5350 HOLLISTER AVE., STE.
SANTA BARBARA CA 93111
US

00-C0-82 (hex) MOORE PRODUCTS CO.
00C082 (base 16) MOORE PRODUCTS CO.
SUMNEYTOWN PIKE
SPRING HOUSE PA 19477
US

00-C0-99 (hex) YOSHIKI INDUSTRIAL CO.,LTD.
00C099 (base 16) YOSHIKI INDUSTRIAL CO.,LTD.
1-38 MATSUGASAKI 2-CHOME
992
JP

00-C0-45
(hex) ISOLATION SYSTEMS, LTD.
00C045 (base 16) ISOLATION SYSTEMS, LTD.
26 SIX POINT ROAD
CANADA M8Z 2W9
CA

00-70-B3 (hex) DATA RECALL LTD.
0070B3 (base 16) DATA RECALL LTD.
SONDES PLACE
UNITED KINGDOM
GB

00-E6-D3 (hex) NIXDORF COMPUTER CORP.
00E6D3 (base 16) NIXDORF COMPUTER CORP.
2520 MISSION COLLEGE ROAD
SANTA CLARA CA 95054
US

00-70-B0 (hex) M/A-COM INC. COMPANIES
0070B0 (base 16) M/A-COM INC. COMPANIES
11717 EXPLORATION LANE
GERMANTOWN MD 20767
US

00-C0-1F (hex) S.E.R.C.E.L.
00C01F (base 16) S.E.R.C.E.L.
B.P. 439

FR

00-C0-A1 (hex) TOKYO DENSHI SEKEI CO.
00C0A1 (base 16) TOKYO DENSHI SEKEI CO.
255-1 RENKOJI, TAMA-SHI
JAPAN 206
JP

00-C0-2E (hex) NETWIZ
00C02E (base 16) NETWIZ
26 GOLOMB STREET

IL

00-C0-47 (hex) UNIMICRO SYSTEMS, INC.
00C047 (base 16) UNIMICRO SYSTEMS, INC.
44382 S. GRIMMER BLVD.
FREMONT
CA 94538
US

00-C0-84 (hex) DATA LINK CORP. LTD.
00C084 (base 16) DATA LINK CORP. LTD.
3-15-3 MIDORICHO

JP

00-C0-41 (hex) DIGITAL TRANSMISSION SYSTEMS
00C041 (base 16) DIGITAL TRANSMISSION SYSTEMS
4830 RIVER GREEN PARKWAY
DULUTH GA 30136
US

00-C0-B6 (hex) HVE, Inc.
00C0B6 (base 16) HVE, Inc.
Suite 2, 100 Executive Court
Waxahachie TX 75165
US

00-C0-7A (hex) PRIVA B.V.
00C07A (base 16) PRIVA B.V.
P.O. BOX 18

NL

00-C0-6D (hex) BOCA RESEARCH, INC.
00C06D (base 16) BOCA RESEARCH, INC.
6401 CONGRESS AVENUE
BOCA RATON FL 33487
US

00-C0-EA (hex) ARRAY TECHNOLOGY LTD.
00C0EA (base 16) ARRAY TECHNOLOGY LTD.
145 FRIMLEY ROAD
ENGLAND GU15 2PS
GB

00-C0-09 (hex) KT TECHNOLOGY (S) PTE LTD
00C009 (base 16) KT TECHNOLOGY (S) PTE LTD
KT BUILDING
SINGAPORE 0511
SG

00-60-86 (hex) LOGIC REPLACEMENT TECH. LTD.
006086
(base 16) LOGIC REPLACEMENT TECH. LTD.
14 ARKWRIGHT ROAD
UNITED KINGDOM
GB

00-C0-59 (hex) DENSO CORPORATION
00C059 (base 16) DENSO CORPORATION
1-1, Showa-cho,
Kariya-shi, Aichi 448-8661
JP

00-C0-F1 (hex) SHINKO ELECTRIC CO., LTD.
00C0F1 (base 16) SHINKO ELECTRIC CO., LTD.
COMPUTER SYSTEM DIVISION
JAPAN 441-31
JP

00-C0-DC (hex) EOS TECHNOLOGIES, INC.
00C0DC (base 16) EOS TECHNOLOGIES, INC.
3945 FREEDOM CIRCLE, STE.#770
SANTA CLARA CA 95054
US

00-C0-3C (hex) TOWER TECH S.R.L.
00C03C (base 16) TOWER TECH S.R.L.
VIA RIDOLFI 6,8

IT

00-C0-1D (hex) GRAND JUNCTION NETWORKS, INC.
00C01D (base 16) GRAND JUNCTION NETWORKS, INC.
3101 WHIPPLE RD., #27
UNION CITY CA 94587
US

00-C0-72 (hex) KNX LTD.
00C072 (base 16) KNX LTD.
HOLLINGWOOD HOUSE
LS21 3HA UNITED KINGDOM
GB

00-C0-AE (hex) TOWERCOM CO. INC. DBA PC HOUSE
00C0AE (base 16) TOWERCOM
CO. INC. DBA PC HOUSE
841 E. ARTESIA BLVD.
CARSON CA 90746
US

00-C0-D6 (hex) J1 SYSTEMS, INC.
00C0D6 (base 16) J1 SYSTEMS, INC.
3 DUNWOODY PARK-STE.#103
ATLANTA GA 30338
US

00-C0-F6 (hex) CELAN TECHNOLOGY INC.
00C0F6 (base 16) CELAN TECHNOLOGY INC.
NO. 101, MIN-HSIANG ST.
TAIWAN TAIWAN R.O.C.
CN

00-C0-C2 (hex) INFINITE NETWORKS LTD.
00C0C2 (base 16) INFINITE NETWORKS LTD.
19 BROOKSIDE ROAD, OXHEY
UNITED KINGDOM
GB

00-C0-AF (hex) TEKLOGIX INC.
00C0AF (base 16) TEKLOGIX INC.
2100 MEADOWVALE BOULEVARD
CANADA L5N 7J9
CA

00-C0-70 (hex) SECTRA SECURE-TRANSMISSION AB
00C070 (base 16) SECTRA SECURE-TRANSMISSION AB
TEKNIKRINGEN 2

SE

00-C0-07 (hex) PINNACLE DATA SYSTEMS, INC.
00C007 (base 16) PINNACLE DATA SYSTEMS, INC.
1350 WEST FIFTH AVENUE
COLUMBUS OH 43212
US

00-C0-F8 (hex) ABOUT COMPUTING INC.
00C0F8 (base 16) ABOUT
COMPUTING INC.
P.O. BOX 172
BELMONT MA 02178
US

00-C0-78 (hex) COMPUTER SYSTEMS ENGINEERING
00C078 (base 16) COMPUTER SYSTEMS ENGINEERING
46791 FREMONT BLVD.
FREMONT CA 94538
US

00-C0-9A (hex) PHOTONICS CORPORATION
00C09A (base 16) PHOTONICS CORPORATION
2940 NORTH FIRST STREET
SAN JOSE CA 95123-2021
US

00-C0-1A (hex) COROMETRICS MEDICAL SYSTEMS
00C01A (base 16) COROMETRICS MEDICAL SYSTEMS
61 BARNES PARK ROAD NORTH
WALLINGFORD CT 06492-0333
US

00-C0-68 (hex) HME Clear-Com LTD.
00C068 (base 16) HME Clear-Com LTD.
7400 Beach Drive
Cambridgeshire CB25 9TP
GB

00-C0-D8 (hex) UNIVERSAL DATA SYSTEMS
00C0D8 (base 16) UNIVERSAL DATA SYSTEMS
5000 BRADFORD DRIVE
HUNTSVILLE AL 35805-1993
US

00-40-36 (hex) Minim Inc.
004036 (base 16) Minim Inc.

848 Elm Street
Manchester NH 03101
US

00-40-16 (hex) ADC - Global Connectivity Solutions Division
004016
(base 16) ADC - Global Connectivity Solutions Division
P.O. Box 1101
Minneapolis MN 55440-1101
US

00-40-6A (hex) KENTEK INFORMATION SYSTEMS,INC
00406A (base 16) KENTEK INFORMATION SYSTEMS,INC
2945 WILDERNESS PLACE
BOULDER CO 80301
US

00-40-0A (hex) PIVOTAL TECHNOLOGIES, INC.
00400A (base 16) PIVOTAL TECHNOLOGIES, INC.
100 W. RINCON AVENUE-STE #211
CAMPBELL CA 95008
US

00-40-82 (hex) LABORATORY EQUIPMENT CORP.
004082 (base 16) LABORATORY EQUIPMENT CORP.
1-7-3 MINATOMACHI
300
JP

00-C0-01 (hex) DIATEK PATIENT MANAGMENT
00C001 (base 16) DIATEK PATIENT MANAGMENT
SYSTEMS, INC.
SAN DIEGO CA 92121-1723
US

00-C0-F4 (hex) INTERLINK SYSTEM CO., LTD.
00C0F4 (base 16) INTERLINK SYSTEM CO., LTD.
INTERLINK B/D, 476-20
KOREA
KR

00-C0-E2 (hex) CALCOMP, INC.
00C0E2 (base 16) CALCOMP, INC.
2411 W. LAPALMA AVENUE
ANAHEIM CA 92803-3250
US

00-C0-7B

(hex) ASCEND COMMUNICATIONS, INC.
00C07B (base 16) ASCEND COMMUNICATIONS, INC.
1701 HARBOR BAY PARKWAY
ALAMEDA CA 94502
US

00-C0-98 (hex) CHUNTEX ELECTRONIC CO., LTD.
00C098 (base 16) CHUNTEX ELECTRONIC CO., LTD.
6F., NO.2, ALLEY 6, LANE 235
TAIWAN TAIWAN R.O.C.
TW

00-40-A8 (hex) IMF INTERNATIONAL LTD.
0040A8 (base 16) IMF INTERNATIONAL LTD.
NO.5 2/F KINGSFORD IND. CENTRE
HONG KONG
HK

00-40-70 (hex) INTERWARE CO., LTD.
004070 (base 16) INTERWARE CO., LTD.
7F KUDAN NEW CENTRAL BLDG.,
TOKYO 102 TOKYO 102
JP

00-80-3B (hex) APT COMMUNICATIONS, INC.
00803B (base 16) APT COMMUNICATIONS, INC.
9607 DR. PERRY ROAD
IJAMSVILLE MD 21754
US

00-80-6A (hex) ERI (EMPAC RESEARCH INC.)
00806A (base 16) ERI (EMPAC RESEARCH INC.)
47560 SEABRIDGE DRIVE
FREMONT CA 94538
US

00-C0-A8 (hex) GVC CORPORATION
00C0A8 (base 16) GVC CORPORATION
1961 CONCOURSE DRIVE-STE
SAN
JOSE CA 95131
US

00-40-99 (hex) NEWGEN SYSTEMS CORP.
004099 (base 16) NEWGEN SYSTEMS CORP.
17580 NEWHOPE STREET
FOUNTAIN VALLEY CA 92708
US

00-40-11 (hex) ANDOVER CONTROLS CORPORATION
004011 (base 16) ANDOVER CONTROLS CORPORATION
300 BRICKSTONE SQUARE
ANDOVER MA 01810
US

00-40-A1 (hex) ERGO COMPUTING
0040A1 (base 16) ERGO COMPUTING
ONE INTERCONTINENTAL WAY
PEABODY MA 01960
US

00-40-81 (hex) MANNESMANN SCANGRAPHIC GMBH
004081 (base 16) MANNESMANN SCANGRAPHIC GMBH
RISSENER STRASSE 112-114

DE

00-C0-F7 (hex) ENGAGE COMMUNICATION, INC.
00C0F7 (base 16) ENGAGE COMMUNICATION, INC.
9053 SOQUEL DRIVE
APTOS CA 95003-4034
US

00-C0-8C (hex) PERFORMANCE TECHNOLOGIES, INC.
00C08C (base 16) PERFORMANCE TECHNOLOGIES, INC.
315 SCIENCE PARKWAY
ROCHESTER NY 14620
US

00-C0-BE (hex) ALCATEL - SEL
00C0BE (base 16) ALCATEL - SEL
LORENZ
STR

DE

00-C0-6E (hex) HAFT TECHNOLOGY, INC.
00C06E (base 16) HAFT TECHNOLOGY, INC.
DAINI-DOHO BLDG.
305
JP

00-C0-8A (hex) Lauterbach GmbH
00C08A (base 16) Lauterbach GmbH
Altlaufstraße 40
Höhenkirchen-Siegertsbrunn 85635

DE

00-40-B7 (hex) STEALTH COMPUTER SYSTEMS
0040B7 (base 16) STEALTH COMPUTER SYSTEMS
2341 REGINA CT.
SANTA CLARA CA 95054
US

00-40-AC (hex) SUPER WORKSTATION, INC.
0040AC (base 16) SUPER WORKSTATION, INC.
2190 PARAGON DRIVE
SAN JOSE CA 95131
US

10-00-5A (hex) IBM Corp
10005A (base 16) IBM Corp
3039 E Cornwallis Road
Research Triangle Park NC 27709-2195
US

00-40-F1 (hex) CHUO ELECTRONICS CO., LTD.
0040F1 (base 16) CHUO ELECTRONICS CO., LTD.
1-9-9, MOTOHONGO-CHO

JP

00-40-A9 (hex) DATACOM INC.
0040A9 (base 16) DATACOM INC.
146 HIGHWAY ROUTE 34 - STE 250
HOLMDEL NJ 07733
US

00-40-E3 (hex) QUIN
SYSTEMS LTD
0040E3 (base 16) QUIN SYSTEMS LTD
OAKLANDS BUSINESS CENTRE
UNITED KINGDOM
GB

00-40-91 (hex) PROCOMP INDUSTRIA ELETRONICA
004091 (base 16) PROCOMP INDUSTRIA ELETRONICA
AV. KENKITI SIMOMOTO, 767

BR

00-40-E0 (hex) ATOMWIDE LTD.
0040E0 (base 16) ATOMWIDE LTD.
23 THE GREENWAY

UNITED KINGDOM
GB

00-40-D1 (hex) FUKUDA DENSHI CO., LTD.
0040D1 (base 16) FUKUDA DENSHI CO., LTD.
R & D DEPARTMENT NO. 1

JP

00-40-69 (hex) LEMCOM SYSTEMS, INC.
004069 (base 16) LEMCOM SYSTEMS, INC.
2104 WEST PEORIA AVENUE
PHOENIX AZ 85029
US

00-40-3B (hex) SYNERJET INTERNATIONAL CORP.
00403B (base 16) SYNERJET INTERNATIONAL CORP.
5F, NO 35, KUANG FU S. ROAD
TAIWAN R. O. C.
TW

00-40-8A (hex) TPS TELEPROCESSING SYS. GMBH
00408A (base 16) TPS TELEPROCESSING SYS. GMBH
SCHWADERMUCHLSTRASSE 4-8

DE

00-40-FD (hex) LXE
0040FD (base 16) LXE
303
RESEARCH DRIVE
NORCROSS GA 30092
US

00-40-43 (hex) Nokia Siemens Networks GmbH & Co. KG.
004043 (base 16) Nokia Siemens Networks GmbH & Co. KG.
Werner-von-Siemens Straße 2-6
Bruchsal Baden-Württemberg 76646
DE

00-40-EA (hex) PLAIN TREE SYSTEMS INC
0040EA (base 16) PLAIN TREE SYSTEMS INC
CHIEF EXECTUVIE OFFICER

CA

00-40-14 (hex) COMSOFT GMBH
004014 (base 16) COMSOFT GMBH

WACHHAUSSTR. 5A

DE

00-40-00 (hex) PCI COMPONENTES DA AMZONIA LTD
004000 (base 16) PCI COMPONENTES DA AMZONIA LTD
RUA JOSEF KRYSS
01140 BRASIL
BR

00-40-FA (hex) MICROBOARDS, INC.
0040FA (base 16) MICROBOARDS, INC.
31-8, TAKASECHO,FUNABASHI-CITY
CHIBA 273 CHIBA 273
JP

00-40-3F (hex) SSANGYONG COMPUTER SYSTEMS
00403F (base 16) SSANGYONG COMPUTER SYSTEMS
CORPORATION
KOREA 100-705
KR

00-80-38 (hex) DATA RESEARCH & APPLICATIONS
008038 (base 16) DATA RESEARCH
& APPLICATIONS
9041 EXECUTIVE PARK DR.
KNOXVILLE TN 37923-4609
US

00-80-5E (hex) LSI LOGIC CORPORATION
00805E (base 16) LSI LOGIC CORPORATION
1551 MCCARTHY BOULEVARD
MILPITAS CA 95035
US

00-80-60 (hex) NETWORK INTERFACE CORPORATION
008060 (base 16) NETWORK INTERFACE CORPORATION
15019 WEST 95 STREET
LENEXA KS 66215
US

00-80-C3 (hex) BICC INFORMATION SYSTEMS & SVC
0080C3 (base 16) BICC INFORMATION SYSTEMS & SVC
500 CAPABILITY GREEN, LUTON
ENGLAND LU1 3LT
GB

00-80-44 (hex) SYSTECH COMPUTER CORP.

008044 (base 16) SYSTECH COMPUTER CORP.
6465 NANCY RIDGE DRIVE
SAN DIEGO CA 92121
US

00-80-06 (hex) COMPUADD CORPORATION
008006 (base 16) COMPUADD CORPORATION
ENGINEERING
AUSTIN TX 78727
US

00-80-28 (hex) TRADPOST (HK) LTD
008028 (base 16) TRADPOST (HK) LTD
5/F, STAR CENTRE
HONG KONG
HK

00-80-61 (hex) LITTON SYSTEMS, INC.
008061 (base
16) LITTON SYSTEMS, INC.
M/S 44-20
AGOURA HILLS CA 91301-0500
US

00-80-F5 (hex) Quantel Ltd
0080F5 (base 16) Quantel Ltd
Turnpike Road
Newbury Berkshire RG14 2NX
GB

00-80-B9 (hex) ARCHE TECHNOLIGIES INC.
0080B9 (base 16) ARCHE TECHNOLIGIES INC.
48502 KATO ROAD
FREMONT CA 94538
US

00-80-A7 (hex) Honeywell International Inc
0080A7 (base 16) Honeywell International Inc
Vancouver Center of Excellence
North Vancouver V7J 3S4
CA

00-40-6C (hex) COPERNIQUE
00406C (base 16) COPERNIQUE
6, MAIL DE L'EUROPE BP 25

FR

00-40-75 (hex) Tattile SRL
004075 (base 16) Tattile SRL
11-12 NORTHFIELD PROSPECT
UNITED KINGDOM
GB

00-40-53 (hex) AMPRO COMPUTERS
004053 (base 16) AMPRO COMPUTERS
990 ALMONDOR AVENUE
SUNNYVALE CA 94086
US

00-40-5E (hex) NORTH HILLS ISRAEL
00405E (base 16) NORTH HILLS ISRAEL
P.O. BOX 1280

IL

00-40-A7
(hex) ITAUTEC PHILCO S.A.
0040A7 (base 16) ITAUTEC PHILCO S.A.
GRUPO ITAUTEC PHILCO

BR

00-40-64 (hex) KLA INSTRUMENTS CORPORATION
004064 (base 16) KLA INSTRUMENTS CORPORATION
160 RIO ROBLES
SAN JOSE CA 95161-9055
US

00-40-5A (hex) GOLDSTAR INFORMATION & COMM.
00405A (base 16) GOLDSTAR INFORMATION & COMM.
533, HOGAE-DONG, ANYANG-SHI
KOREA
KR

00-40-13 (hex) NTT DATA COMM. SYSTEMS CORP.
004013 (base 16) NTT DATA COMM. SYSTEMS CORP.
DEVELOPMENT HEADQUARTERS
TOKYO 135 TOKYO 135
JP

00-40-0C (hex) GENERAL MICRO SYSTEMS, INC.
00400C (base 16) GENERAL MICRO SYSTEMS, INC.
P.O. BOX 3689
RANCHO CUCAMONGA CA 91729
US

00-40-63 (hex) VIA TECHNOLOGIES, INC.
004063 (base 16) VIA TECHNOLOGIES, INC.
5020 BRANDIN COURT
FREMONT CA 94538
US

00-80-9B (hex) JUSTSYSTEM CORPORATION
00809B (base 16) JUSTSYSTEM CORPORATION
3-46 OKINOHAMAHIGASHI

JP

00-80-8A
(hex) SUMMIT MICROSYSTEMS CORP.
00808A (base 16) SUMMIT MICROSYSTEMS CORP.
710 LAKEWAY-STE.#150
SUNNYVALE CA 940867
US

00-80-49 (hex) NISSIN ELECTRIC CO., LTD.
008049 (base 16) NISSIN ELECTRIC CO., LTD.
47, UMEZU - TAKASE - CHO

JP

00-80-C1 (hex) LANEX CORPORATION
0080C1 (base 16) LANEX CORPORATION
10727 TUCKER STREET
BELTSVILLE MD 20705
US

00-80-BC (hex) HITACHI ENGINEERING CO., LTD
0080BC (base 16) HITACHI ENGINEERING CO., LTD
4-8-26, OMIKACHO

JP

00-80-7C (hex) FIBERCOM, INC.
00807C (base 16) FIBERCOM, INC.
3353 ORANGE AVENUE NE
ROANOKE VA 24012
US

00-80-91 (hex) TOKYO ELECTRIC CO.,LTD
008091 (base 16) TOKYO ELECTRIC CO.,LTD
10-14 UCHIKANDA
TOKYO JAPAN 101

JP

00-80-D4 (hex) CHASE RESEARCH LTD.
0080D4 (base 16) CHASE RESEARCH LTD.
7 CHINEHAM BUSINESS PARK
ENGLAND
GB

00-80-3D (hex) SURIGIKEN CO., LTD.
00803D
(base 16) SURIGIKEN CO., LTD.
YOUTH BLDG, 4-1-9 SHINJUKU

JP

00-80-8B (hex) DACOLL LIMITED
00808B (base 16) DACOLL LIMITED
DACOLL HOUSE, GARDNERS LANE
SCOTLAND EH48 1TP
GB

00-80-CB (hex) FALCO DATA PRODUCTS
0080CB (base 16) FALCO DATA PRODUCTS
440 POTRERO AVENUE
SUNNYVALE CA 94086-4196
US

00-80-1E (hex) XINETRON, INC.
00801E (base 16) XINETRON, INC.
2330 B. WALSH AVE.
SANTA CLARA CA 95051
US

00-80-E2 (hex) T.D.I. CO., LTD.
0080E2 (base 16) T.D.I. CO., LTD.
DEVELOPMENT DIV. #3 FUJI BLDG

JP

00-80-36 (hex) REFLEX MANUFACTURING SYSTEMS
008036 (base 16) REFLEX MANUFACTURING SYSTEMS
UNIT D, THE FLEMING CENTRE,
ENGLAND
GB

00-80-83 (hex) AMDAHL
008083 (base 16) AMDAHL
1250 EAST ARQUES AVENUE

SUNNYVALE CA 94088-3470
US

00-80-4D (hex) CYCLONE MICROSYSTEMS, INC.
00804D (base 16) CYCLONE MICROSYSTEMS, INC.
25 SCIENCE
PARK
NEW HAVEN CT 06511
US

00-80-0B (hex) CSK CORPORATION
00800B (base 16) CSK CORPORATION
18F MATSUSHITA IMP BLDG,
JAPAN 540
JP

00-80-07 (hex) DLOG NC-SYSTEME
008007 (base 16) DLOG NC-SYSTEME
WERNER-VON-SIEMENS STRASSE 13
GERMANY

00-80-62 (hex) INTERFACE CO.
008062 (base 16) INTERFACE CO.
8-26 OZU 5-CHOME MINAMI-KU

JP

00-80-B2 (hex) NETWORK EQUIPMENT TECHNOLOGIES
0080B2 (base 16) NETWORK EQUIPMENT TECHNOLOGIES
6900 PASEO PADRE PARKWAY
FREMONT CA 94555
US

00-80-76 (hex) MCNC
008076 (base 16) MCNC
P.O. BOX 12889
RTP NC 27709
US

00-80-9D (hex) Commscraft Ltd.
00809D (base 16) Commscraft Ltd.
PO BOX 160

AU

00-80-F4 (hex) TELEMECANIQUE ELECTRIQUE
0080F4 (base 16) TELEMECANIQUE ELECTRIQUE

33 BIS AVENUE,

FR

00-80-DF (hex) ADC CODENOLL TECHNOLOGY CORP.
0080DF (base 16) ADC CODENOLL TECHNOLOGY CORP.
200
CORPORATE BLVD. SO.
YONKERS NY 10701
US

00-80-22 (hex) SCAN-OPTICS
008022 (base 16) SCAN-OPTICS
201 TECHNOLOGY DRIVE
IRVINE CA 92718
US

00-00-CD (hex) Allied Telesis Labs Ltd
0000CD (base 16) Allied Telesis Labs Ltd
27 Nazareth Avenue
Middleton Christchurch 8024
NZ

00-80-18 (hex) KOBE STEEL, LTD.
008018 (base 16) KOBE STEEL, LTD.
KOBE ISUZU RECRUIT BLDG.

JP

00-00-B2 (hex) TELEVIDEO SYSTEMS, INC.
0000B2 (base 16) TELEVIDEO SYSTEMS, INC.
550 E. BROKAW ROAD
SAN JOSE CA 95161-9048
US

00-00-EE (hex) NETWORK DESIGNERS, LTD.
0000EE (base 16) NETWORK DESIGNERS, LTD.
UNIT 1A, HORNBEAM PARK
UNITED KINGDOM HG2 8QT
GB

00-00-E5 (hex) SIGMEX LTD.
0000E5 (base 16) SIGMEX LTD.
SIGMA HOUSE
RH12 4UZ ENGLAND
GB

00-00-89 (hex) CAYMAN SYSTEMS INC.

000089 (base 16) CAYMAN SYSTEMS INC.
26 LANSDOWNE STREET
CAMBRIDGE MA 02139
US

00-00-FF
(hex) CAMTEC ELECTRONICS LTD.
0000FF (base 16) CAMTEC ELECTRONICS LTD.
101 VAUGHAN WAY
ENGLAND
GB

00-00-B7 (hex) DOVE COMPUTER CORPORATION
0000B7 (base 16) DOVE COMPUTER CORPORATION
1200 NORTH 23RD STREET
WILMINGTON NC 28405
US

00-00-F2 (hex) SPIDER COMMUNICATIONS
0000F2 (base 16) SPIDER COMMUNICATIONS
7491 BRIAR ROAD

CA

00-80-68 (hex) YAMATECH SCIENTIFIC LTD.
008068 (base 16) YAMATECH SCIENTIFIC LTD.
1255 LAIRD, SUITE 260

CA

00-80-A8 (hex) VITACOM CORPORATION
0080A8 (base 16) VITACOM CORPORATION
1330 CHARLESTON ROAD
MOUNTAIN VIEW CA 94043
US

00-80-33 (hex) EMS Aviation, Inc.
008033 (base 16) EMS Aviation, Inc.
121 WHITTENDALE DRIVE
MOORESTOWN NJ 08057
US

00-80-DD (hex) GMX INC/GIMIX
0080DD (base 16) GMX INC/GIMIX
3223 ARNOLD LANE
NORTHBROOK IL 60062-2406
US

00-00-DC (hex) HAYES MICROCOMPUTER PRODUCTS
0000DC
(base 16) HAYES MICROCOMPUTER PRODUCTS
P.O. BOX 105203
ATLANTA GA 30348
US

00-00-63 (hex) BARCO CONTROL ROOMS GMBH
000063 (base 16) BARCO CONTROL ROOMS GMBH
An der Rossweid 5
Karlsruhe D-76229
DE

00-00-4E (hex) AMPEX CORPORATION
00004E (base 16) AMPEX CORPORATION
581 CONFERENCE PLACE
GOLDEN CO 80401
US

00-00-C2 (hex) INFORMATION PRESENTATION TECH.
0000C2 (base 16) INFORMATION PRESENTATION TECH.
23801 CALABASAS ROAD
CALABASAS CA 91302
US

00-00-FC (hex) MEIKO
0000FC (base 16) MEIKO
650 AZTEC WEST
UNITED KINGDOM
GB

00-00-DB (hex) British Telecommunications plc
0000DB (base 16) British Telecommunications plc
81 New Gate St
England
GB

00-00-C1 (hex) Madge Ltd.
0000C1 (base 16) Madge Ltd.
Madge House
Maindenhead Berkshire SL6 2HP
GB

00-00-F6 (hex) APPLIED MICROSYSTEMS CORP.
0000F6 (base 16) APPLIED MICROSYSTEMS CORP.
5020
148 AVENUE, N.E.
REDMOND WA 98073-9702

US

00-80-B4 (hex) SOPHIA SYSTEMS
0080B4 (base 16) SOPHIA SYSTEMS
3337 KIFER ROAD
SANTA CLARA CA 95051
US

00-80-7F (hex) DY-4 INCORPORATED
00807F (base 16) DY-4 INCORPORATED
333 PALLADIUM DRIVE, MS 312

CA

00-00-BD (hex) RYOSEI, Ltd.
0000BD (base 16) RYOSEI, Ltd.
16-4, kitahatsushima-cho
Amagasaki-shi Hyogo 660-0834
JP

00-00-2E (hex) SOCIETE EVIRA
00002E (base 16) SOCIETE EVIRA
ZONE PORTUAIRE DE BREGAILLON

FR

00-00-3F (hex) SYNTREX, INC.
00003F (base 16) SYNTREX, INC.
246 INDUSTRIAL WAY WEST
EATONTOWN NJ 07724
US

00-00-8E (hex) SOLBOURNE COMPUTER, INC.
00008E (base 16) SOLBOURNE COMPUTER, INC.
1900 PIKE ROAD
LONGMONT COLORADO 80501
US

00-80-FB (hex) BVM LIMITED
0080FB (base 16) BVM LIMITED
Lakeside House, Brickyard Road,
Swanmore SOUTHAMPTON SO32 2SA
GB

00-80-2D (hex) XYLOGICS
INC
00802D (base 16) XYLOGICS INC
53 THIRD AVENUE

BURLINGTON MA 01803
US

00-00-6D (hex) CRAY COMMUNICATIONS, LTD.
00006D (base 16) CRAY COMMUNICATIONS, LTD.
P.O. BOX 254, CAXTON WAY
UNITED KINGDOM
GB

00-00-DA (hex) ATEX
0000DA (base 16) ATEX
15 CROSBY DRIVE
BEDFORD MA 01730
US

00-00-CC (hex) DENSAN CO., LTD.
0000CC (base 16) DENSAN CO., LTD.
1-23-11, KAMITAKAIDO

JP

00-00-A0 (hex) SANYO Electric Co., Ltd.
0000A0 (base 16) SANYO Electric Co., Ltd.
5-5, Keihan-hondori 2-chome,
Moriguchi City Osaka 570-8677
JP

00-00-C0 (hex) WESTERN DIGITAL CORPORATION
0000C0 (base 16) WESTERN DIGITAL CORPORATION
8105 IRVINE CENTER DRIVE
IRVINE CA 92718
US

00-00-33 (hex) EGAN MACHINERY COMPANY
000033 (base 16) EGAN MACHINERY COMPANY
SOUTH ADAMSVILLE ROAD
SOMMERVILLE NJ 08876
US

00-00-9D (hex) LOCUS COMPUTING CORPORATION
00009D (base
16) LOCUS COMPUTING CORPORATION
9800 LA CIENEGA
INGLEWOOD CA 90301
US

00-00-FD (hex) HIGH LEVEL HARDWARE
0000FD (base 16) HIGH LEVEL HARDWARE

PO BOX 170 WINDMILL ROAD
ENGLAND
GB

00-00-A4 (hex) ACORN COMPUTERS LIMITED
0000A4 (base 16) ACORN COMPUTERS LIMITED
FULBOURN ROAD, CHERRY HINTON
ENGLAND
GB

00-00-DD (hex) TCL INCORPORATED
0000DD (base 16) TCL INCORPORATED
41829 ALBRAE STREET
FREMONT CA 94538
US

00-00-AE (hex) DASSAULT ELECTRONIQUE
0000AE (base 16) DASSAULT ELECTRONIQUE
55, QUAI MARCEL DASSAULT

FR

00-00-65 (hex) Network General Corporation
000065 (base 16) Network General Corporation
178 E Tsaman Dr
San Jose CA 95134
US

00-00-11 (hex) NORMEREL SYSTEMES
000011 (base 16) NORMEREL SYSTEMES
58 RUE POTTIER

FR

00-00-61 (hex) GATEWAY COMMUNICATIONS
000061 (base 16) GATEWAY COMMUNICATIONS
2941 ALTON AVENUE
IRVINE
CA 92714
US

00-00-EA (hex) UPNOD AB
0000EA (base 16) UPNOD AB
BOX 23051

SE

00-00-43 (hex) MICRO TECHNOLOGY

000043 (base 16) MICRO TECHNOLOGY
4905 EAST LAPALMA
ANAHEIM CA 92807
US

00-00-17 (hex) Oracle
000017 (base 16) Oracle
4200 Network Circle
Santa Clara CA 95054
US

00-00-77 (hex) INTERPHASE CORPORATION
000077 (base 16) INTERPHASE CORPORATION
13800 SENLAC
DALLAS TX 75234
US

00-00-A2 (hex) Bay Networks
0000A2 (base 16) Bay Networks
PO Box 58185
Santa Clara CA 95052-8185
US

00-00-EC (hex) MICROPROCESS
0000EC (base 16) MICROPROCESS
97 BIS, RUE DE COLOMBES

FR

00-00-10 (hex) SYTEK INC.
000010 (base 16) SYTEK INC.
1225 CHARLESTON ROAD
MOUNTAIN VIEW CA 94043
US

00-00-C4 (hex) WATERS DIV. OF MILLIPORE
0000C4 (base 16) WATERS DIV. OF MILLIPORE
34 MAPLE STREET
MILFORD MA 01757
US

00-00-EB (hex) MATSUSHITA
COMM. IND. CO. LTD.
0000EB (base 16) MATSUSHITA COMM. IND. CO. LTD.
3-1 4-CHOME

JP

00-00-99 (hex) MTX, INC.
000099 (base 16) MTX, INC.
3301 TERMINAL DRIVE
RALEIGH NC 27604
US

00-00-28 (hex) PRODIGY SYSTEMS CORPORATION
000028 (base 16) PRODIGY SYSTEMS CORPORATION
2601 CASEY DRIVE
MOUNTAIN VIEW CA 94043
US

08-00-43 (hex) PIXEL COMPUTER INC.
080043 (base 16) PIXEL COMPUTER INC.
260 FORDHAM ROAD
WILMINGTON MA 01887
US

08-00-45 (hex) CONCURRENT COMPUTER CORP.
080045 (base 16) CONCURRENT COMPUTER CORP.
2 CRESCENT PLACE
OCEANPORT NJ 07757
US

08-00-3B (hex) TORUS SYSTEMS LIMITED
08003B (base 16) TORUS SYSTEMS LIMITED
SCIENCE PARK
UNITED KINGDOM
GB

08-00-3C (hex) SCHLUMBERGER WELL SERVICES
08003C (base 16) SCHLUMBERGER WELL SERVICES
AUSTIN ENGINEERING SERVICES
AUSTIN TX 78720-0015
US

08-00-34 (hex) FILENET CORPORATION
080034
(base 16) FILENET CORPORATION
1575 CORPORATE DRIVE
COSTA MESA CA 92626
US

08-00-36 (hex) INTERGRAPH CORPORATION
080036 (base 16) INTERGRAPH CORPORATION
ONE MADISON INDUSTRIAL PARK
HUNTSVILLE AL 35807
US

08-00-33 (hex) BAUSCH & LOMB
080033 (base 16) BAUSCH & LOMB
INTERACTIVE GRAPHICS DIVISION
AUSITN TX 78671
US

08-00-2B (hex) DIGITAL EQUIPMENT CORPORATION
08002B (base 16) DIGITAL EQUIPMENT CORPORATION
LKG 1-2/A19
LITTLETON MA 01460-1289
US

08-00-29 (hex) Megatek Corporation
080029 (base 16) Megatek Corporation
16868 Via Del Campo Court
San Diego CA 92127
US

08-00-23 (hex) Panasonic Communications Co., Ltd.
080023 (base 16) Panasonic Communications Co., Ltd.
4-1-62 Minoshima Hakata Fukuoka
812-8531
JP

08-00-7E (hex) AMALGAMATED WIRELESS(AUS) LTD
08007E (base 16) AMALGAMATED WIRELESS(AUS) LTD
NORTH RYDE DIVISION
AUSTRALIA 2113
AU

08-00-7F
(hex) CARNEGIE-MELLON UNIVERSITY
08007F (base 16) CARNEGIE-MELLON UNIVERSITY
INFORMATION TECHNOLOGY
PITTSBURGE PA 15213
US

08-00-48 (hex) EUROTHERM GAUGING SYSTEMS
080048 (base 16) EUROTHERM GAUGING SYSTEMS
900 MIDDLESEX TURNPIKE, BDG. 6
BILLERICA MA 01821
US

08-00-30 (hex) NETWORK RESEARCH CORPORATION
080030 (base 16) NETWORK RESEARCH CORPORATION
2380 N. ROSE AVENUE
OXNARD CA 93010

US

08-00-31 (hex) LITTLE MACHINES INC.
080031 (base 16) LITTLE MACHINES INC.
4141 JUTLAND DRIVE
SAN DIEGO CA 92117
US

08-00-2E (hex) METAPHOR COMPUTER SYSTEMS
08002E (base 16) METAPHOR COMPUTER SYSTEMS
2500 GARCIA AVENUE
MOUNTAIN VIEW CA 94043
US

08-00-56 (hex) STANFORD LINEAR ACCEL. CENTER
080056 (base 16) STANFORD LINEAR ACCEL. CENTER
2575 SANDHILL ROAD
MENLO PARK CA 94025
US

08-00-4F (hex) CYGNET SYSTEMS
08004F (base 16) CYGNET SYSTEMS
2560 JUNCTION
AVENUE
SAN JOSE CA 95134
US

08-00-50 (hex) DAISY SYSTEMS CORP.
080050 (base 16) DAISY SYSTEMS CORP.
139 KIFER COURT
SUNNYVALE CA 94086
US

08-00-6D (hex) WHITECHAPEL COMPUTER WORKS
08006D (base 16) WHITECHAPEL COMPUTER WORKS
75 WHITECHAPEL ROAD
LONDON E1 1DU
GB

08-00-5E (hex) COUNTERPOINT COMPUTER INC.
08005E (base 16) COUNTERPOINT COMPUTER INC.
2127 RINGWOOD AVENUE
SAN JOSE CA 95131
US

08-00-75 (hex) DANSK DATA ELECTRONIK
080075 (base 16) DANSK DATA ELECTRONIK
HERLEV HOVEDGADE 199

DK

08-00-78 (hex) ACCELL CORPORATION
080078 (base 16) ACCELL CORPORATION
50 SAGINAW DRIVE
ROCHESTER NY 14623
US

08-00-0F (hex) MITEL CORPORATION
08000F (base 16) MITEL CORPORATION
350 LEGGET DRIVE
CANADA K2K 1X3
CA

02-70-B0 (hex) M/A-COM INC. COMPANIES
0270B0 (base 16) M/A-COM INC. COMPANIES
11717 EXPLORATION LANE
GERMANTOWN MD 20767
US

00-00-53
(hex) COMPUCORP
000053 (base 16) COMPUCORP
2211 MICHIGAN AVENUE
SANTA MONICA CA 90404
US

08-00-0A (hex) NESTAR SYSTEMS INCORPORATED
08000A (base 16) NESTAR SYSTEMS INCORPORATED
2585 EAST BAYSHORE ROAD
PALO ALTO CA 94303
US

08-00-90 (hex) SONOMA SYSTEMS
080090 (base 16) SONOMA SYSTEMS
4640 ADMIRALTY WAY, STE. #600
MARINA DEL REY CA 90292-6695
US

00-80-0F (hex) STANDARD MICROSYSTEMS
00800F (base 16) STANDARD MICROSYSTEMS
300 KENNEDY DRIVE
HAUPPAUGE NY 11788
US

00-40-6B (hex) SYSGEN
00406B (base 16) SYSGEN

556 GIBRALTAR DRIVE
MILPITAS CA 95035
US

00-00-04 (hex) XEROX CORPORATION
000004 (base 16) XEROX CORPORATION
M/S 105-50C
WEBSTER NY 14580
US

00-DD-0E (hex) UNGERMANN-BASS INC.
00DD0E (base 16) UNGERMANN-BASS INC.
3900 FREEDOM CIRCLE
SANTA CLARA CA 95054
US

08-00-18 (hex) PIRELLI FOCOM NETWORKS
080018 (base
16) PIRELLI FOCOM NETWORKS
DENTON DRIVE
ENGLAND
GB

00-00-A6 (hex) NETWORK GENERAL CORPORATION
0000A6 (base 16) NETWORK GENERAL CORPORATION
1296 B LAWRENCE STATION ROAD
SUNNYVALE CA 94089
US

00-BB-F0 (hex) UNGERMANN-BASS INC.
00BBF0 (base 16) UNGERMANN-BASS INC.
3900 FREEDOM CIRCLE
SANTA CLARA CA 95054
US

00-40-8E (hex) Tattile SRL
00408E (base 16) Tattile SRL
2360 MARYLAND ROAD
WILLOW GROVE PA 19090
US

08-00-1C (hex) KDD-KOKUSAI DEBNSIN DENWA CO.
08001C (base 16) KDD-KOKUSAI DEBNSIN DENWA CO.
FUJI XEROX CO., LTD. TELEGRAPH
107
JP

F0-A7-31 (hex) TP-Link Corporation Limited

F0A731 (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

00-DD-0C (hex) UNGERMANN-BASS INC.
00DD0C (base 16) UNGERMANN-BASS INC.
3900 FREEDOM CIRCLE
SANTA CLARA CA 95054
US

00-01-C8
(hex) THOMAS CONRAD CORP.
0001C8 (base 16) THOMAS CONRAD CORP.
1908-R KRAMER LANE
AUSTIN TX 78758
US

CC-45-A5 (hex) Texas Instruments
CC45A5 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

60-26-02 (hex) Texas Instruments
602602 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

EC-BF-D0 (hex) Texas Instruments
ECBFD0 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

C4-E7-33 (hex) Clear Align LLC
C4E733 (base 16) Clear Align LLC
2550 Boulevard of the Generals, Suite 280
Eagleville PA 19403
US

5C-FC-E1 (hex) Resideo
5CFCE1 (base 16) Resideo
2 Corporate Center Dr.
Melville NY 11747
US

94-15-B2 (hex) Huawei Device Co., Ltd.
9415B2 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

54-DE-D3 (hex) zte corporation
54DED3 (base 16) zte corporation
12/F.,zte
R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

74-9B-89 (hex) HUAWEI TECHNOLOGIES CO.,LTD
749B89 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

5C-53-B4 (hex) EM Microelectronic
5C53B4 (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

50-A6-D8 (hex) Apple, Inc.
50A6D8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

68-CA-C4 (hex) Apple, Inc.
68CAC4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

74-20-5F (hex) Shenzhen Zhongruixin Intelligent Technology Co., Ltd.
74205F (base 16) Shenzhen Zhongruixin Intelligent Technology Co., Ltd.
Room 801, Block A, Nanyuan Commercial Building, Nanyuan New Village, Hongshan Community, Minzhi Street, Longhua District
Shenzhen City Guangdong Province 518001
CN

A4-97-8A
(hex) LEAR
A4978A (base 16) LEAR
Industriestraße 48

Kronach Bayern 96317
DE

80-F5-AE (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
80F5AE (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

E8-B7-22 (hex) GreenTrol Automation
E8B722 (base 16) GreenTrol Automation
156 Holly View Lane
Loris SC 29569
US

60-61-34 (hex) Arcade Communications Ltd.
606134 (base 16) Arcade Communications Ltd.
1120 Elliott Court Herald Avenue
Coventry CV5 6UB
CA

4C-EA-41 (hex) IEEE Registration Authority
4CEA41 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

00-30-8E (hex) Crossmatch Technologies/HID Global
00308E (base 16) Crossmatch Technologies/HID Global
3950 RCA Blvd Ste 5001
Palm Beach Gardens FL 33410
US

00-06-33 (hex) Crossmatch Technologies/HID Global
000633
(base 16) Crossmatch Technologies/HID Global
Unstrutweg 4
Jena 07743
DE

14-06-4C (hex) Vogl Electronic GmbH
14064C (base 16) Vogl Electronic GmbH
Pieringer Stadtweg 1
Salching 94330
DE

8C-61-20 (hex) EM Microelectronic
8C6120 (base 16) EM Microelectronic

Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

8C-8E-4E (hex) Baylan Olcu Aletleri San. ve Tic.A.S.
8C8E4E (base 16) Baylan Olcu Aletleri San. ve Tic.A.S.
10032 Sk. No: 16 Cigli
?zmir 35620
TR

F8-AC-C1 (hex) InnoXings Co., LTD.
F8ACC1 (base 16) InnoXings Co., LTD.
6F, No. 157, Xinhu 1st Rd., Neihu Dist.
Taipei 114758
TW

84-50-75 (hex) Huawei Device Co., Ltd.
845075 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

5C-C7-87 (hex) Huawei Device Co., Ltd.
5CC787 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan
Guangdong 523808
CN

40-64-DC (hex) X-speed lnformation Technology Co.,Ltd
4064DC (base 16) X-speed lnformation Technology Co.,Ltd
th Floor,Building 2,Xinyu Electronic Industrial Park,No.69, Zhaishan,Houshan Village, High-tech Zone,Fuzhou,Fujian ,China
Fuzhou 350000
CN

30-D9-7F (hex) Tech4home, Lda
30D97F (base 16) Tech4home, Lda
Rua de Fundoes N151, VAT: PT509195830
Sao Joao da Madeira Aveiro 3700-121
PT

5C-F8-38 (hex) IEEE Registration Authority
5CF838 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

40-80-E1 (hex) FN-LINK TECHNOLOGY Ltd.
4080E1 (base 16) FN-LINK TECHNOLOGY Ltd.
No.8, Litong Road, Liuyang Economic & Technical Development Zone, Changsha, Hunan,China
Changsha Hunan 410329
CN

EC-CF-70 (hex) FUJIAN STAR-NET COMMUNICATION CO.,LTD
ECCF70 (base 16) FUJIAN STAR-NET COMMUNICATION CO.,LTD
19-22# Building, Star-net Science Plaza, Juyuanzhou,
FUZHOU
FUJIAN 350002
CN

9C-37-CB (hex) Sony Interactive Entertainment Inc.
9C37CB (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

3C-B0-ED (hex) Nothing Technology Limited
3CB0ED (base 16) Nothing Technology Limited
11 Staple Inn
London London WC1V 7QH
GB

C4-48-38 (hex) Satcom Direct, Inc.
C44838 (base 16) Satcom Direct, Inc.
1050 Satcom Lane
Melbourne FL 32940
US

D8-03-2A (hex) COMMTACT LTD
D8032A (base 16) COMMTACT LTD
NAHAL SNIR, 10
YAVNE 8110101
IL

84-70-51 (hex) ALPSALPINE CO,.LTD
847051 (base 16) ALPSALPINE CO,.LTD
nishida 6-1
kakuda-City Miyagi-Pref 981-1595
JP

74-0B-B0 (hex) Hirschmann Automation and Control GmbH
740BB0 (base 16) Hirschmann Automation and Control GmbH
Stuttgarter Straße 45-51
Neckartenzlingen D-72654
DE

04-F0-E4 (hex) ShenZhen Hosecom Electronic Technology Co.,LTD
04F0E4
(base 16) ShenZhen Hosecom Electronic Technology Co.,LTD
R1609, Building A, Zhiyun Industrial Park, No. 13 Huaxing Road, Longhua District, Shenzhen City, Guangdong Province
ShenZhen Guangdong 518000
CN

D4-7F-78 (hex) Dopple B.V.
D47F78 (base 16) Dopple B.V.
Overcingellaan 7
Assen Drenthe 9401 LA
NL

D8-E2-3F (hex) Qingdao Haier Technology Co.,Ltd
D8E23F (base 16) Qingdao Haier Technology Co.,Ltd
Building A01,Haier Information Park, No.1 Haier Road,
Qingdao Shandong 266101
CN

50-13-1D (hex) Motorola Mobility LLC, a Lenovo Company
50131D (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

3C-84-27 (hex) Espressif Inc.
3C8427 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

90-A9-F7 (hex) IEEE Registration Authority
90A9F7 (base 16) IEEE Registration Authority
445
Hoes Lane
Piscataway NJ 08554
US

F0-F7-FC (hex) HUAWEI TECHNOLOGIES CO.,LTD
F0F7FC (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

30-FF-FD (hex) HUAWEI TECHNOLOGIES CO.,LTD
30FFFD (base 16) HUAWEI TECHNOLOGIES CO.,LTD

No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B0-99-5A (hex) HUAWEI TECHNOLOGIES CO.,LTD
B0995A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-F7-AD (hex) HUAWEI TECHNOLOGIES CO.,LTD
00F7AD (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D4-CB-CC (hex) vivo Mobile Communication Co., Ltd.
D4CBCC (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

20-ED-47
(hex) Juniper Networks
20ED47 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

94-EF-49 (hex) BDR Thermea Group B.V
94EF49 (base 16) BDR Thermea Group B.V
Kanaal Zuid 106
Apeldoorn 7332BD
NL

90-B6-85 (hex) WEIFANG GOERTEK ELECTRONICS CO.,LTD
90B685 (base 16) WEIFANG GOERTEK ELECTRONICS CO.,LTD
Gaoxin 2 Road, Free Trade Zone,Weifang,Shandong,261205,P.R.China
Weifang Shandong 261205
CN

24-D5-E4 (hex) Cisco Systems, Inc
24D5E4 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A0-D1-B3 (hex) Apple, Inc.

A0D1B3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

7C-4B-26 (hex) Apple, Inc.
7C4B26 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

18-E8-3B (hex) Citadel Wallet LLC
18E83B (base 16) Citadel Wallet LLC
221 North Broad Street, Suite 3A
Middletown DE 19709
US

24-A1-86
(hex) ARRIS Group, Inc.
24A186 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

CC-11-5A (hex) Apple, Inc.
CC115A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-80-66 (hex) Eurotech S.p.A.
008066 (base 16) Eurotech S.p.A.
Via Fratelli Solari 3/A
Amaro Udine 33020
GB

00-80-A3 (hex) Lantronix
0080A3 (base 16) Lantronix
48 Discovery, Suite 250
Irvine CA 92618
US

EC-41-F9 (hex) Shenzhen iComm Semiconductor CO.,LTD
EC41F9 (base 16) Shenzhen iComm Semiconductor CO.,LTD
Room 601,Block B ,Digital Building,Garden City
Shenzhen No.1079 Nanhai Road,Nanshan District 518067
CN

78-53-33 (hex) Beijing Xiaomi Electronics Co.,Ltd
785333 (base 16) Beijing Xiaomi Electronics Co.,Ltd
Xiaomi Campus
Beijing Beijing 100085
CN

9C-F8-B8 (hex) Shenzhen Skyworth Digital Technology CO., Ltd
9CF8B8 (base 16) Shenzhen Skyworth
Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

90-D4-32 (hex) zte corporation
90D432 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

14-7F-67 (hex) LG Innotek
147F67 (base 16) LG Innotek
26, HANAMSANDAN 5BEON-RO
Gwangju Gwangsan-gu 506-731
KR

94-32-C1 (hex) Honor Device Co., Ltd.
9432C1 (base 16) Honor Device Co., Ltd.
Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District
Shenzhen Guangdong 518040
CN

10-7C-61 (hex) ASUSTek COMPUTER INC.
107C61 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

58-FC-C8 (hex) LenelS2 Carrier
58FCC8 (base 16) LenelS2 Carrier
1212 Pittsford Victor Rd
Pittsford NY 14534
US

18-95-78 (hex) DENSO Corporation
189578
(base 16) DENSO Corporation
1-1, Showa-cho

Kariya Aichi 448-8661
JP

EC-9A-0C (hex) IEEE Registration Authority
EC9A0C (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

00-8D-F4 (hex) IEEE Registration Authority
008DF4 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

9C-37-08 (hex) Aruba, a Hewlett Packard Enterprise Company
9C3708 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

6C-7F-0C (hex) Cisco Meraki
6C7F0C (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco 94158
US

5C-B2-6D (hex) Intel Corporate
5CB26D (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

CC-4D-75 (hex) Beijing Xiaomi Mobile Software Co., Ltd
CC4D75 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle
Street Haidian District
Beijing Beijing 100085
CN

E8-B0-C5 (hex) Intel Corporate
E8B0C5 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

78-18-EC (hex) Fortinet, Inc.
7818EC (base 16) Fortinet, Inc.

899 Kifer Road
Sunnyvale 94086
US

E0-2E-FE (hex) Zhejiang Dahua Technology Co., Ltd.
E02EFE (base 16) Zhejiang Dahua Technology Co., Ltd.
No.1199,Waterfront Road
Hangzhou Zhejiang 310053
CN

6C-51-E4 (hex) Huawei Device Co., Ltd.
6C51E4 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

B0-FA-8B (hex) Huawei Device Co., Ltd.
B0FA8B (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

E8-28-8D (hex) Huawei Device Co., Ltd.
E8288D (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong
523808
CN

48-1C-B9 (hex) SZ DJI TECHNOLOGY CO.,LTD
481CB9 (base 16) SZ DJI TECHNOLOGY CO.,LTD
DJI Sky City, No55 Xianyuan Road, Nanshan District
Shenzhen Guangdong 518057
CN

C4-62-37 (hex) sunweit industrial limited
C46237 (base 16) sunweit industrial limited
Block A ,503B Room,Zhihui Innovation Centre
Shenzhen GUANGDONG 518000
CN

F4-62-DC (hex) Huawei Device Co., Ltd.
F462DC (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

CC-A0-8F (hex) zte corporation

CCA08F (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

FC-B5-85 (hex) Shenzhen Water World Information Co.,Ltd.
FCB585 (base 16) Shenzhen Water World Information Co.,Ltd.
1F, Building 3, DexinChang Wisdom Park, No. 23, Heping Road, Qinghua Community, Longhua Subdistrict, Longhua District
Shenzhen
Guangdong 518109
CN

D4-24-DD (hex) AVM Audiovisuelles Marketing und Computersysteme GmbH
D424DD (base 16) AVM Audiovisuelles Marketing und Computersysteme GmbH
Alt-Moabit 95
Berlin Berlin 10559
DE

EC-E6-60 (hex) Qingdao Hisense Communications Co.,Ltd.
ECE660 (base 16) Qingdao Hisense Communications Co.,Ltd.
Qianwangang Road 218
Qingdao Shandong 266510
CN

A0-55-1F (hex) Sagemcom Broadband SAS
A0551F (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

F4-D5-8A (hex) Palo Alto Networks
F4D58A (base 16) Palo Alto Networks
3000 Tannery Way
Santa Clara CA 95054
US

C8-C6-FE (hex) eero inc.
C8C6FE (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

18-89-DF (hex) OMNIVISION
1889DF (base 16) OMNIVISION
18F Attend on tower, 2-8-12, Shin Yokohama
Yokohama Kohoku-ku 222-0033
JP

44-30-3F (hex) HUAWEI
TECHNOLOGIES CO.,LTD
44303F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

5C-07-A6 (hex) HUAWEI TECHNOLOGIES CO.,LTD
5C07A6 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

CC-1E-56 (hex) HUAWEI TECHNOLOGIES CO.,LTD
CC1E56 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

38-C6-BD (hex) Xiaomi Communications Co Ltd
38C6BD (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

4C-B9-11 (hex) Raisecom Technology CO., LTD
4CB911 (base 16) Raisecom Technology CO., LTD
No. 11, East Area, No. 10 Block, East Xibeiwang Road
Beijing 100094
CN

00-0E-5E (hex) Raisecom Technology CO., LTD
000E5E (base
16) Raisecom Technology CO., LTD
2 Floor, South Building of Rainbow Plaza
Haidian District Beijing 100085
CN

A8-3C-A5 (hex) Dell Inc.
A83CA5 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

90-89-38 (hex) Hefei Linkin Technology Co., Ltd.
908938 (base 16) Hefei Linkin Technology Co., Ltd.
Room 901-905, 9th Floor, Building F3, Innovation Industrial Park II, Wangjiang West Road, Hefei National High-

tech Industry Development Zone,
Hefei Anhui 230000
CN

A8-BA-69 (hex) Samsung Electronics Co.,Ltd
A8BA69 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-0C-8D (hex) Balluff MV GmbH
000C8D (base 16) Balluff MV GmbH
Talstrasse 16
Oppenweiler Baden-Württemberg D-71570
DE

80-F7-A6 (hex) Shenzhen C-Data Technology Co., Ltd.
80F7A6 (base 16) Shenzhen C-Data Technology Co., Ltd.
#201, Building A4, Nanshan Zhiyuan, No.1001, Xueyuan Avenue,
Changyuan Community,Taoyuan,Nanshan
Shenzhen Guangdong 518055
CN

30-2F-AC (hex) Zhejiang HuaRay Technology Co.,Ltd
302FAC (base 16) Zhejiang HuaRay Technology Co.,Ltd
Room 401, 4th Floor, Building 1, No. 590 Changhe Road, Changhe Street, Binjiang District
hangzhou zhejiang 310051
CN

B8-0B-DA (hex) GD Midea Air-Conditioning Equipment Co.,Ltd.
B80BDA (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
Midea Global Innovation Center,Beijiao Town,Shunde
Foshan Guangdong 528311
CN

34-2D-A3 (hex) Fiberhome Telecommunication Technologies Co.,LTD
342DA3 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

0C-6A-C4 (hex) Apple, Inc.
0C6AC4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

BC-37-D3 (hex) Apple, Inc.

BC37D3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

20-CC-27 (hex) Cisco Systems,
Inc
20CC27 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

0C-51-7E (hex) Apple, Inc.
0C517E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

BC-EA-9C (hex) ITEL MOBILE LIMITED
BCEA9C (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

28-D2-5A (hex) Infinix mobility limited
28D25A (base 16) Infinix mobility limited
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN
HONG KONG
HongKong HongKong 999077
HK

80-EA-0B (hex) Zyxel Communications Corporation
80EA0B (base 16) Zyxel Communications Corporation
No. 6, Innovation Road II
Hsinchu 300
TW

98-2F-86 (hex) vivo Mobile Communication Co., Ltd.
982F86 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

04-E4-B6
(hex) Samsung Electronics Co.,Ltd
04E4B6 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677

KR

04-79-FD (hex) Ciena Corporation
0479FD (base 16) Ciena Corporation
900 International Drive
Linthicum MD 21090-2200
US

50-98-93 (hex) Texas Instruments
509893 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

6C-83-38 (hex) Ubihere
6C8338 (base 16) Ubihere
4621 Lyman Drive
Hilliard OH 43026
US

00-0C-EF (hex) ONE Investment Group Limited
000CEF (base 16) ONE Investment Group Limited
Unit 6 Chelmsford Road Industrial Estate, Chelmsford Road, Great Dunmow
Essex CM6 1HD
GB

50-3A-A0 (hex) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
503AA0 (base 16) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
6th Floor, South Section, Building 23, Keyuan West, NO.1 Kezhi West Road, Science and Technology Community, Yuehai Street, Nanshan District
Shenzhen Guangdong 518057
CN

5C-DE-34 (hex) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
5CDE34 (base 16) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
6th Floor, South Section, Building 23, Keyuan West, NO.1 Kezhi West Road, Science and Technology Community, Yuehai Street, Nanshan District
Shenzhen Guangdong 518057
CN

38-39-8F (hex) Silicon Laboratories
38398F (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

84-27-12 (hex) Silicon Laboratories
842712 (base 16) Silicon Laboratories

400 West Cesar Chavez
Austin TX 78701
US

7C-C6-B6 (hex) Silicon Laboratories
7CC6B6 (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

98-0C-33 (hex) Silicon Laboratories
980C33 (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

50-5E-5C (hex) SUNITEC TECHNOLOGY
CO.,LIMITED
505E5C (base 16) SUNITEC TECHNOLOGY CO.,LIMITED
Floor 1-4, building C, Weixlangtal industrial park, no, 725, Dasan VillageXingfu community, Fucheng Street, Longhua district
Shenzhen 518110
CN

38-02-E3 (hex) YICHEN (SHENZHEN) TECHNOLOGY CO.,LTD
3802E3 (base 16) YICHEN (SHENZHEN) TECHNOLOGY CO.,LTD
23rd Floor C1 Block,Nanshan iPark?NO.1001 Xueyuan Road, Nanshan District, Shenzhen,Guangdong Province,PRC
ShenZhen City GuangDong Province 518000
CN

7C-F0-E5 (hex) OnePlus Technology (Shenzhen) Co., Ltd
7CF0E5 (base 16) OnePlus Technology (Shenzhen) Co., Ltd
18C02, 18C03, 18C04 ,18C05,TAIRAN BUILDING,
Shenzhen Guangdong 518000
CN

34-C7-E9 (hex) Google, Inc.
34C7E9 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

20-93-39 (hex) Juniper Networks
209339 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

B4-2B-B9 (hex) HUAWEI
TECHNOLOGIES CO.,LTD
B42BB9 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E4-A7-D0 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E4A7D0 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

34-C5-15 (hex) Aruba, a Hewlett Packard Enterprise Company
34C515 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

48-2D-63 (hex) Wavarts Technologies Co., Ltd
482D63 (base 16) Wavarts Technologies Co., Ltd
ZGC Sci-Fi Industry Innovation Center Floor 8, Shijingshan District
Beijing 100043
CN

80-99-E7 (hex) Sony Corporation
8099E7 (base 16) Sony Corporation
Sony City Osaki 2-10-1
Shinagawa-ku Tokyo 141-8610
JP

E8-FF-1E (hex) IEEE Registration Authority
E8FF1E (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway
NJ 08554
US

1C-54-E6 (hex) Shenzhen Yisheng Technology Co.,Ltd
1C54E6 (base 16) Shenzhen Yisheng Technology Co.,Ltd
Street Address: Block 6,R & D center building,Funing high tech Industrial Park,No.71 XinTian Road,FuYong Town, BaoAn, Shenzhen, Guangdong Province, China
Shenzhen 518103
CN

AC-8C-46 (hex) Beijing Xiaomi Mobile Software Co., Ltd
AC8C46 (base 16) Beijing Xiaomi Mobile Software Co., Ltd

The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

0C-4B-48 (hex) Nokia
0C4B48 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

7C-7B-1C (hex) Motorola Mobility LLC, a Lenovo Company
7C7B1C (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

78-34-FD (hex) vivo Mobile Communication Co., Ltd.
7834FD (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan
Guangdong 523860
CN

B0-9C-63 (hex) Xiaomi Communications Co Ltd
B09C63 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

E8-98-47 (hex) Xiaomi Communications Co Ltd
E89847 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

FC-38-6A (hex) Shenzhen Skyworth Digital Technology CO., Ltd
FC386A (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

50-88-11 (hex) Beijing Xiaomi Mobile Software Co., Ltd
508811 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

AC-81-B5 (hex) Accton Technology Corporation

AC81B5 (base 16) Accton Technology Corporation
No.
1 Creation Rd. III, Science-based Industrial Park
Hsinchu 300
TW

F8-C4-FA (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
F8C4FA (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

AC-CE-92 (hex) New H3C Technologies Co., Ltd
ACCE92 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

FC-3C-D7 (hex) Tuya Smart Inc.
FC3CD7 (base 16) Tuya Smart Inc.
160 Greentree Drive, Suite 101
Dover DE 19904
US

D0-46-0C (hex) Dell Inc.
D0460C (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

84-D5-A0 (hex) MCOT INC.
84D5A0 (base 16) MCOT INC.
Yogohigashi 1-5-12
Matsuyama Ehime 790-0044
JP

84-E8-CB (hex) BUFFALO.INC
84E8CB (base 16) BUFFALO.INC
AKAMONDORI Bld.,30-20,Ohsu 3-chome,Naka-ku
Nagoya Aichi Pref. 460-8315
JP

38-E1-F4 (hex) Sagemcom
Broadband SAS
38E1F4 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

64-53-E0 (hex) HUAWEI TECHNOLOGIES CO.,LTD
6453E0 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

68-8B-F4 (hex) Arista Network, Inc.
688BF4 (base 16) Arista Network, Inc.
5453 Great America Parkway
Santa Clara CA 95054
US

20-23-51 (hex) TP-LINK CORPORATION PTE. LTD.
202351 (base 16) TP-LINK CORPORATION PTE. LTD.
7 Temasek Boulevard #29-03 Suntec Tower One
Singapore 038987
SG

8C-84-74 (hex) Broadcom Limited
8C8474 (base 16) Broadcom Limited
15191 Alton Parkway
Irvine CA 92618
US

D8-A6-FD (hex) Ghost Autonomy Inc.
D8A6FD (base 16) Ghost Autonomy Inc.
800 California St. Suite 200
Mountain View CA 94041
US

94-01-7D (hex) SHENZHEN SHLINK.CO.,LIMITED
94017D
(base 16) SHENZHEN SHLINK.CO.,LIMITED
701, Building A, Lilan Innovation Industrial Park, No. 104 Huanguanzhong Road, Songxuan Community, Guanhu Street, Longhua District, Shenzhen
SHENZHEN GUANGDONG 925351
CN

90-A0-BE (hex) Cannice
90A0BE (base 16) Cannice
Guangxi Konaixin Precision Technology Co., Ltd., Guishi North Road Industrial Zone, Zhongshan Town, Zhongshan County, Hezhou City, Guangxi Zhuang Autonomous Region
Hezhou Guangxi 542800
CN

C0-E5-DA (hex) Qingdao Intelligent&Precise Electronics Co.,Ltd.
C0E5DA (base 16) Qingdao Intelligent&Precise Electronics Co.,Ltd.

No.218 Qianwangang Road
Qingdao Shangdong 266510
CN

D8-3D-3F (hex) JOYNED GmbH
D83D3F (base 16) JOYNED GmbH
Nockhofweg 26c
Mutters 6162
AT

D4-48-67 (hex) Silicon Laboratories
D44867 (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

D8-C6-F9 (hex) Tracklab Inc
D8C6F9 (base
16) Tracklab Inc
5060 SW Philomath BLVD #508
CORVALLIS OR 97333
US

6C-48-3F (hex) Xiaomi Communications Co Ltd
6C483F (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

3C-AF-B7 (hex) Xiaomi Communications Co Ltd
3CAFB7 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

54-08-53 (hex) Qingdao Haier Technology Co.,Ltd
540853 (base 16) Qingdao Haier Technology Co.,Ltd
Building A01,Haier Information Park, No.1 Haier Road,
Qingdao Shandong 266101
CN

BC-08-66 (hex) Nestle Purina PetCare
BC0866 (base 16) Nestle Purina PetCare
Checkerboard Square
Saint Louis MO 63164
US

2C-B6-8F (hex) HUAWEI TECHNOLOGIES CO.,LTD

2CB68F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan
523808
CN

C8-D1-A9 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C8D1A9 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

DC-9B-95 (hex) Phyplus Technology (Shanghai) Co., Ltd
DC9B95 (base 16) Phyplus Technology (Shanghai) Co., Ltd
3th Floor, Building 23, 676 Wuxing Road, Pudong New District, Shanghai
Shanghai Shanghai 201204
CN

48-00-B3 (hex) Cisco Systems, Inc
4800B3 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E0-5D-54 (hex) Ruijie Networks Co.,LTD
E05D54 (base 16) Ruijie Networks Co.,LTD
Building 19,Juyuanzhou Industrial Park, No.618 Jinshan Avenue, Cangshan District
Fuzhou 35000
CN

40-BB-56 (hex) TeraNXT Global India Pvt Ltd.
40BB56 (base 16) TeraNXT Global India Pvt Ltd.
7A/61 W.E.A KAROL BAGH
DELHI DELHI 110005
IN

40-DA-5C (hex) Apple, Inc.
40DA5C (base 16) Apple, Inc.
1
Infinite Loop
Cupertino CA 95014
US

5C-91-75 (hex) Apple, Inc.
5C9175 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A0-78-2D (hex) Apple, Inc.
A0782D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D0-11-E5 (hex) Apple, Inc.
D011E5 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D8-44-89 (hex) TP-LINK CORPORATION PTE. LTD.
D84489 (base 16) TP-LINK CORPORATION PTE. LTD.
7 Temasek Boulevard #29-03 Suntec Tower One
Singapore 038987
SG

18-18-8B (hex) FCNT LLC
18188B (base 16) FCNT LLC
Sanki Yamato Building, 7-10-1 Chuorinkan
Yamato Kanagawa 242-8588
JP

6C-60-16 (hex) OnePlus Technology (Shenzhen) Co., Ltd
6C6016 (base 16) OnePlus Technology (Shenzhen) Co., Ltd
18C02, 18C03, 18C04 ,18C05,TAIRAN BUILDING,
Shenzhen Guangdong 518000
CN

64-FE-15 (hex) Flaircomm Microelectronics,Inc.
64FE15 (base 16) Flaircomm
Microelectronics,Inc.
7FGuomai Building,Guomai Science and Technology Park,116 Jiangbin East Avenue,Mawei District,Fuzhou City
Fuzhou FUJIAN 350015
CN

D8-6B-FC (hex) zte corporation
D86BFC (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

DC-71-D0 (hex) Apple, Inc.
DC71D0 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

9C-FA-76 (hex) Apple, Inc.
9CFA76 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

20-FA-85 (hex) Apple, Inc.
20FA85 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

9C-1A-25 (hex) Apple, Inc.
9C1A25 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E0-48-24 (hex) Garmin International
E04824 (base 16) Garmin International
1200 E. 151st St
Olathe KS 66062
US

44-F7-70 (hex) Beijing Xiaomi Mobile Software
Co., Ltd
44F770 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

A8-31-62 (hex) Hangzhou Huacheng Network Technology Co.,Ltd
A83162 (base 16) Hangzhou Huacheng Network Technology Co.,Ltd
13th Floor, Building 3, No. 582, Liye Road, Changhe Street, Binjiang District
Hangzhou (Zhejiang) Pilot Free Trade Zone 311200
CN

CC-64-1A (hex) SHENZHEN BILIAN ELECTRONIC CO.LTD
CC641A (base 16) SHENZHEN BILIAN ELECTRONIC CO.LTD
NO.268 Fuqian Rd, Jutang community, Guanlan Town, Longhua New district
shenzhen guangdong 518000
CN

68-B4-1E (hex) ZEASN TECHNOLOGY PRIVATE LIMITED
68B41E (base 16) ZEASN TECHNOLOGY PRIVATE LIMITED
6 SHENTON WAY #37-03 OUE DOWNTOWN

Singpore Singpore 068809
SG

08-F0-B6 (hex) Edifier International
08F0B6 (base 16) Edifier International
Suit 2207, 22nd floor, Tower II, Lippo
centre, 89 Queensway
Hong Kong 070
CN

C0-55-5C (hex) Impulse Labs
C0555C (base 16) Impulse Labs
1409 Minnesota Street
San Francisco CA 94107
US

A8-59-5F (hex) Intel Corporate
A8595F (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

CC-28-AA (hex) ASUSTek COMPUTER INC.
CC28AA (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

3C-9F-CD (hex) Shenzhen Neoway Technology Co.,Ltd.
3C9FCD (base 16) Shenzhen Neoway Technology Co.,Ltd.
Room 4401, Building 1, Huide Tower, Beizhan Community, Minzhi Sub-district, Longhua District
Shenzhen Guangdong 518000
CN

34-14-53 (hex) Gantner Electronic GmbH
341453 (base 16) Gantner Electronic GmbH
Bundesstrasse12
Nueziders 6714
AT

DC-4B-A1 (hex) Wistron Neweb Corporation
DC4BA1 (base 16) Wistron Neweb Corporation
No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu
R.O.C. 308
TW

34-A6-EF (hex) Shenzhen Phaten Tech. LTD

34A6EF (base 16) Shenzhen Phaten Tech. LTD
C-6 ideamonto industril 7002 Songbai Road Guangming District Shenzhen City Guangdong, China
Shenzhen 518108
CN

BC-3F-4E (hex) Great Talent Technology Limited
BC3F4E (base 16) Great Talent Technology Limited
No.13 Langshan Rd,HiTech Park,Nanshan District
Shenzhen Guangdong 518000
CN

DC-54-AD (hex) Hangzhou RunZhou Fiber Technologies Co.,Ltd
DC54AD (base 16) Hangzhou RunZhou Fiber Technologies Co.,Ltd
Room 401-1, Building 8, 181 Wuchang Avenue, Wuchang Street, Yuhang District
Hangzhou Zhejiang 310030
CN

A8-96-09 (hex) FN-LINK TECHNOLOGY Ltd.
A89609 (base 16) FN-LINK TECHNOLOGY Ltd.
No.8, Litong Road, Liuyang Economic & Technical Development Zone, Changsha, Hunan,China
Changsha Hunan 410329
CN

84-15-71 (hex) TCT mobile ltd
841571 (base 16) TCT mobile ltd
No.86 hechang
7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

E8-BF-B8 (hex) Intel Corporate
E8BFB8 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

B0-92-4A (hex) Sagemcom Broadband SAS
B0924A (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

54-04-63 (hex) CIG SHANGHAI CO LTD
540463 (base 16) CIG SHANGHAI CO LTD
5th Floor, Building 8 No 2388 Chenhang Road
SHANGHAI 201114
CN

88-20-67 (hex) Fiberhome Telecommunication Technologies Co.,LTD
882067 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

E8-54-97 (hex) Samsung Electronics Co.,Ltd
E85497 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

10-83-B4 (hex) Sidora Srl
1083B4 (base 16) Sidora Srl
Via Giacomo Boni, 15
Roma Rm 00162
IT

14-E0-1D
(hex) Samsung Electronics Co.,Ltd
14E01D (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

40-DE-24 (hex) Samsung Electronics Co.,Ltd
40DE24 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F0-D8-05 (hex) Cisco Systems, Inc
F0D805 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

08-63-32 (hex) IEEE Registration Authority
086332 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

00-01-30 (hex) Extreme Networks Headquarters
000130 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

FC-0A-81 (hex) Extreme Networks Headquarters
FC0A81 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

00-74-9C (hex) Ruijie Networks Co.,LTD
00749C (base 16) Ruijie Networks
Co.,LTD
19# Building,Star-net Science Plaza,Juyuanzhou, 618 Jinshan Road
Fuzhou Fujian 350002
CN

00-0F-EA (hex) GIGA-BYTE TECHNOLOGY CO.,LTD.
000FEA (base 16) GIGA-BYTE TECHNOLOGY CO.,LTD.
No.215,Nan-Ping Road,Ping-Jen City,
Ping-Jen Taoyuan 324
TW

CC-CC-EA (hex) PHOENIX CONTACT Electronics GmbH
CCCCEA (base 16) PHOENIX CONTACT Electronics GmbH
Dringenauer Str. 30
Bad Pyrmont - D-31812
DE

48-9B-D5 (hex) Extreme Networks Headquarters
489BD5 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

DC-B8-08 (hex) Extreme Networks Headquarters
DCB808 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

F4-6E-95 (hex) Extreme Networks Headquarters
F46E95 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

E0-1C-41 (hex) Extreme Networks Headquarters
E01C41
(base 16) Extreme Networks Headquarters
2121 RDU Center Drive

Morrisville NC 27560
US

BC-F3-10 (hex) Extreme Networks Headquarters
BCF310 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

D8-54-A2 (hex) Extreme Networks Headquarters
D854A2 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

C8-66-5D (hex) Extreme Networks Headquarters
C8665D (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

8C-49-7A (hex) Extreme Networks Headquarters
8C497A (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

B0-27-CF (hex) Extreme Networks Headquarters
B027CF (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

C8-51-FB (hex) Extreme Networks Headquarters
C851FB (base 16) Extreme Networks
Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

DC-23-3B (hex) Extreme Networks Headquarters
DC233B (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

E4-DB-AE (hex) Extreme Networks Headquarters
E4DBAE (base 16) Extreme Networks Headquarters

2121 RDU Center Drive
Morrisville NC 27560
US

38-AD-2B (hex) Hitron Technologies. Inc
38AD2B (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

E8-45-8B (hex) MitraStar Technology Corp.
E8458B (base 16) MitraStar Technology Corp.
No. 6, Innovation Road II,
Hsinchu 300
TW

D0-44-33 (hex) Clourney Semiconductor
D04433 (base 16) Clourney Semiconductor
Floor 6, Building 8, 2777 Nong, Jinxiu East Road, Pudong Dist.
Shanghai Shanghai 201206
CN

40-86-CB (hex) D-Link Corporation
4086CB (base
16) D-Link Corporation
No.289, Sinhu 3rd Rd., Neihu District,
Taipei City 114
TW

48-41-7B (hex) Nokia Solutions and Networks GmbH & Co. KG
48417B (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541
DE

60-8C-DF (hex) Beamtrail-Sole Proprietorship
608CDF (base 16) Beamtrail-Sole Proprietorship
Level 7 Aldar HQ
Abu Dhabi Abu Dhabi 29836
AE

30-27-CF (hex) Canopy Growth Corp
3027CF (base 16) Canopy Growth Corp
350 Leggett Drive
Ottawa Ontario K2K 2W7
CA

00-12-77 (hex) Beijer Electronics Corp.

001277 (base 16) Beijer Electronics Corp.
11F-1, No. 108, MinQuan Rd.
Xindian City Taipei 231
TW

20-47-B5 (hex) Sagemcom Broadband SAS
2047B5 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

60-45-2E (hex) Intel Corporate
60452E (base 16) Intel Corporate
Lot
8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

1C-AB-48 (hex) TECNO MOBILE LIMITED
1CAB48 (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

88-B4-36 (hex) FUJIFILM Corporation
88B436 (base 16) FUJIFILM Corporation
1-324,Uetake,Kita-ku
Saitama Saitama 331-9624
JP

CC-D3-42 (hex) Cisco Systems, Inc
CCD342 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

40-B8-C2 (hex) OSMOZIS
40B8C2 (base 16) OSMOZIS
7 Avenue de l'Europe
Clapiers 34830
FR

8C-E9-EE (hex) Intel Corporate
8CE9EE (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

94-45-60 (hex) Google, Inc.
944560 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

5C-33-7B (hex) Google, Inc.
5C337B
(base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

2C-9C-58 (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
2C9C58 (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

B8-F4-4F (hex) u-blox AG
B8F44F (base 16) u-blox AG
Zuercherstrasse, 68
Thalwil Switzerland CH-8800
CH

54-09-29 (hex) Inventus Power Eletronica do Brasil LTDA
540929 (base 16) Inventus Power Eletronica do Brasil LTDA
Av Buriti, 4285 Distrito Industrial
Manaus Amazonas 69075000
BR

28-31-F8 (hex) HUAWEI TECHNOLOGIES CO.,LTD
2831F8 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C4-AA-99 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C4AA99 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road,
Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A8-F5-E1 (hex) Shenzhen Shokz Co., Ltd.
A8F5E1 (base 16) Shenzhen Shokz Co., Ltd.
Baoan District Shiyan street Shancheng Industrial zone 26 building

Shenzhen Guangdong 518108
CN

60-66-82 (hex) SHENZHEN ATEKO PHOTOELECTRICITY CO.,LTD
606682 (base 16) SHENZHEN ATEKO PHOTOELECTRICITY CO.,LTD
4-5F,E1 Building,TCL International E City,No.1001 Zhongshanyuan Road,Nanshan District,Shenzhen
SHENZHEN GUANGDONG 518052
CN

78-8D-AF (hex) Sagemcom Broadband SAS
788DAF (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

2C-BA-CA (hex) Cosonic Electroacoustic Technology Co., Ltd.
2CBACA (base 16) Cosonic Electroacoustic Technology Co., Ltd.
No.151, Shipai Section, Dongyuan Avenue, Shipai Town
Dongguan Guangdong 523331
CN

04-FA-3F (hex) OptiCore Inc.
04FA3F (base 16) OptiCore Inc.
97
Jungbudaero448beongil, Yeongtonggu
Suwonsi Gyeonggido 16521
KR

44-1D-B1 (hex) APTIV SERVICES US, LLC
441DB1 (base 16) APTIV SERVICES US, LLC
5725 Innovation Drive
Troy MI 48098
US

00-9C-C0 (hex) vivo Mobile Communication Co., Ltd.
009CC0 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

E8-9E-13 (hex) CRESYN
E89E13 (base 16) CRESYN
8-22,Jamwon-dong
Seoul Seocho-Gu #137-902
KR

BC-18-96 (hex) HUAWEI TECHNOLOGIES CO.,LTD
BC1896 (base 16) HUAWEI TECHNOLOGIES CO.,LTD

No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

BC-0F-FE (hex) Juniper Networks
BC0FFE (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

E0-D3-B4 (hex) Cisco Meraki
E0D3B4 (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco 94158
US

FC-8C-11 (hex) Microsoft Corporation
FC8C11
(base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

A4-94-DC (hex) Infinite Clouds
A494DC (base 16) Infinite Clouds
Office 406 Block 333 Road 3307, Um Al Hassam, Kingdom of Bahrain
Manama 973
BH

4C-43-41 (hex) Calix Inc.
4C4341 (base 16) Calix Inc.
2777 Orchard Pkwy
San Jose CA 95131
US

E4-6C-D1 (hex) Calix Inc.
E46CD1 (base 16) Calix Inc.
2777 Orchard Pkwy
San Jose CA 95131
US

D0-F2-7F (hex) BrewLogix, LLC
D0F27F (base 16) BrewLogix, LLC
6 East Washing Street, Suite 200
Indianapolis IN 46204
US

7C-FC-FD (hex) Fiberhome Telecommunication Technologies Co.,LTD

7CFCFD (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

48-87-B8 (hex) TCL King Electrical Appliances(Huizhou)Co.,Ltd
4887B8 (base 16) TCL King Electrical Appliances(Huizhou)Co.,Ltd
B Area, 10th floor,
TCL multimedia Building, TCL International E City, #1001 Zhonshanyuan road,Shenzhen
guangdong China 518058
CN

70-58-A4 (hex) Actiontec Electronics Inc.
7058A4 (base 16) Actiontec Electronics Inc.
2445 Augustine Dr #501
Santa Clara CA 95054
US

18-80-25 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
188025 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

F8-F0-9D (hex) Hangzhou Prevail Communication Technology Co., Ltd
F8F09D (base 16) Hangzhou Prevail Communication Technology Co., Ltd
No. 11809,Jianshe 4th road,Guali twon,Xiaoshan district
Hangzhou City Zhejiang Province 311241
CN

E4-78-76 (hex) Arista Networks
E47876 (base 16) Arista Networks
5453 Great America Parkway
Santa Clara CA 95054
US

A4-A9-30 (hex) Beijing Xiaomi Mobile Software Co., Ltd
A4A930 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow
City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

A0-22-52 (hex) Astra Wireless Technology FZ-LLC
A02252 (base 16) Astra Wireless Technology FZ-LLC
T1-4F-63, RAKEZ Amenity Center, Al Hamra Industrial Zone-FZ
Ras Al Khaimah 7100
AE

BC-10-2F (hex) SJI Industry Company
BC102F (base 16) SJI Industry Company
54-33, Dongtanhana 1-gil
Hwaseong-si Gyeonggi-do 18423
KR

FC-93-6B (hex) Samsung Electronics Co.,Ltd
FC936B (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

BC-B6-FB (hex) P4Q ELECTRONICS, S.L.
BCB6FB (base 16) P4Q ELECTRONICS, S.L.
Calle Nuestra Señora de la Guía Número 19
Alonsotegi Bizkaia 48810
ES

7C-75-2D (hex) Samsung Electronics Co.,Ltd
7C752D (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

84-EE-E4 (hex) Samsung Electronics Co.,Ltd
84EEE4
(base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

44-35-D3 (hex) GD Midea Air-Conditioning Equipment Co.,Ltd.
4435D3 (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
Midea Global Innovation Center,Beijiao Town,Shunde
Foshan Guangdong 528311
CN

88-F0-0F (hex) Miraeil
88F00F (base 16) Miraeil
70, Gasan digital 2-ro, Geumcheon-gusuite 1012
Seoul 08589
KR

18-A7-88 (hex) Shenzhen MEK Intellisys Pte Ltd
18A788 (base 16) Shenzhen MEK Intellisys Pte Ltd
Room 6C, 6th Floor, KeChuang Mansion, Quanzhi Technology Park, HouTing, Shajing Town, BaoAn District
Shenzhen GuangDong 518104

CN

BC-85-29 (hex) Jiangxi Remote lntelligence Technology Co.,Ltd
BC8529 (base 16) Jiangxi Remote lntelligence Technology Co.,Ltd
No. 1, Chemical Avenue, Guixi335400, Yingtan, Jiangxi
Yingtan Jiangxi 360600
CN

64-DA-ED (hex) eero inc.
64DAED (base 16) eero inc.
660
3rd Street
San Francisco CA 94107
US

28-94-01 (hex) NETGEAR
289401 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

D8-78-C9 (hex) SERVERCOM (INDIA) PRIVATE LIMITED
D878C9 (base 16) SERVERCOM (INDIA) PRIVATE LIMITED
E-43/1 OKHLA INDUSTRIAL AREA PHASE-II NEW DELHI SOUTH DELHI
NEW DELHI NA
IN

A8-5E-F2 (hex) TECNO MOBILE LIMITED
A85EF2 (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

78-9A-18 (hex) Routerboard.com
789A18 (base 16) Routerboard.com
Mikrotikls SIA
Riga Riga LV1009
LV

84-DB-2F (hex) Sierra Wireless, ULC
84DB2F (base 16) Sierra Wireless, ULC
1381 Wireless Way
Richmond BC V6V 3A4
CA

74-C5-30 (hex) vivo Mobile Communication Co., Ltd.
74C530 (base 16) vivo Mobile Communication Co., Ltd.

No.1, vivo
Road, Chang'an
Dongguan Guangdong 523860
CN

BC-96-E5 (hex) SERCOMM PHILIPPINES INC
BC96E5 (base 16) SERCOMM PHILIPPINES INC
Lot 1 & 5, Phase 1, Filinvest Technology Park 1, Brgy. Punta, Calamba City
Calamba Lot 1
PH

A8-99-AD (hex) Chaoyue Technology Co., Ltd.
A899AD (base 16) Chaoyue Technology Co., Ltd.
No. 2877 Kehang Road, Suncun Town, High tech Zone, Jinan City, Shandong Province, China
Jinan SHANDONG 250104
CN

D0-15-BB (hex) IEEE Registration Authority
D015BB (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

64-CE-6E (hex) Sierra Wireless, ULC
64CE6E (base 16) Sierra Wireless, ULC
13811 Wireless Way
Richmond BC V6V 3A4
CA

78-DF-72 (hex) Shanghai Imilab Technology Co.Ltd
78DF72 (base 16) Shanghai Imilab Technology Co.Ltd
29F, A Tower, New Caohejing International Business Center, Guiping Road, Xuhui District
Shanghai Shanghai 200000
CN

60-2B-58
(hex) EM Microelectronic
602B58 (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

10-9D-9C (hex) EM Microelectronic
109D9C (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

28-FF-5F (hex) HG Genuine Intelligent Terminal (Xiaogan) Co.,Ltd.
28FF5F (base 16) HG Genuine Intelligent Terminal (Xiaogan) Co.,Ltd.
Building 62, YinHu Technology Industrial Park, No.38 XiaoHan Road, Xiaonan District, Xiaogan, Hubei P.R. China
Xiaogan Hubei 432000
CN

60-76-23 (hex) Shenzhen E-Superlink Technology Co., Ltd
607623 (base 16) Shenzhen E-Superlink Technology Co., Ltd
Floor11, NO.9996 Shen Nan Road, High Tech Park, Nan Shan District, Shen Zhen
ShenZhen Guangdong 518000
CN

74-92-BA (hex) Movesense Ltd
7492BA (base 16) Movesense Ltd
Tammiston kauppatie 7a
Vantaa 01510
FI

D0-48-4F (hex) Nokia Solutions and Networks GmbH & Co. KG
D0484F (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541
DE

2C-45-9A (hex) Dixon Technologies (India) Limited
2C459A (base 16) Dixon Technologies (India) Limited
B 14-15 Phase 2 NOIDA
GautamBudh Nagar Uttarpradesh 201305
IN

6C-6E-07 (hex) CE LINK LIMITED
6C6E07 (base 16) CE LINK LIMITED
2/F, Building G, Licheng Tech. Ind. Zone
Shenzhen Guangdong 518104
CN

6C-62-86 (hex) Nokia
6C6286 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

50-48-2C (hex) IEEE Registration Authority
50482C (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554

US

98-8F-00 (hex) Aruba, a Hewlett Packard Enterprise Company
988F00 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

B8-FC-28 (hex) Valeo Vision Systems
B8FC28 (base 16) Valeo Vision Systems
Dunmore
Road
Tuam Co. Galway H54 Y276
IE

00-20-FC (hex) Matrox Central Services Inc
0020FC (base 16) Matrox Central Services Inc
1055 ST. REGIS
DORVAL QUEBEC H9P-2T4
CA

88-81-87 (hex) Umeox Innovations Co.,Ltd
888187 (base 16) Umeox Innovations Co.,Ltd
Room 1208-09, Research Building, Tsinghua Information Port, No. 1, Xindong Road, Nanshan District, Shenzhen
Shenzhen Guangdong 518000
CN

D4-0F-9E (hex) Apple, Inc.
D40F9E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

6C-A3-67 (hex) Avlinkpro
6CA367 (base 16) Avlinkpro
380 US Highway 46
Totowa NJ 07512
US

48-C4-61 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
48C461 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

B8-B7-DB (hex) GOIP Global Services Pvt. Ltd.
B8B7DB (base 16) GOIP Global Services Pvt. Ltd.
H68, Sector

63, Noida 201301
Noida Uttar Pradesh 201301
IN

88-0C-E0 (hex) Texas Instruments
880CE0 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

B8-3D-F6 (hex) Texas Instruments
B83DF6 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

B4-DD-E0 (hex) Shanghai Amphenol Airwave Communication Electronics Co.,Ltd.
B4DDE0 (base 16) Shanghai Amphenol Airwave Communication Electronics Co.,Ltd.
NO. 689 Shen Nan Road, Xin Zhuang Industry ParkShanghai 201108 P. R. China
Shanghai Shanghai 201108
CN

90-64-AD (hex) HUAWEI TECHNOLOGIES CO.,LTD
9064AD (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D4-D8-92 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D4D892 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

98-D3-D7 (hex) HUAWEI TECHNOLOGIES
CO.,LTD
98D3D7 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

88-6E-EB (hex) HUAWEI TECHNOLOGIES CO.,LTD
886EEB (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

98-0D-AF (hex) Apple, Inc.

980DAF (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

DC-6D-BC (hex) Apple, Inc.
DC6DBC (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A4-D2-3E (hex) Apple, Inc.
A4D23E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

30-E0-4F (hex) Apple, Inc.
30E04F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

64-E4-A5 (hex) LG Electronics
64E4A5 (base 16) LG Electronics
222 LG-ro, JINWI-MYEON
Pyeongtaek-si Gyeonggi-do 451-713
KR

48-BD-CE (hex) Vantiva USA LLC
48BDCE
(base 16) Vantiva USA LLC
4855 Peachtree Industrial Blvd, Suite 20
Norcross GA 30902
US

94-04-E3 (hex) Vantiva USA LLC
9404E3 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

B4-2A-0E (hex) Vantiva USA LLC
B42A0E (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

60-3D-26 (hex) Vantiva USA LLC
603D26 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

54-A6-5C (hex) Vantiva USA LLC
54A65C (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

DC-EB-69 (hex) Vantiva USA LLC
DCEB69 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

94-6A-77 (hex) Vantiva USA LLC
946A77 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

D4-B9-2F (hex) Vantiva
USA LLC
D4B92F (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

58-96-30 (hex) Vantiva USA LLC
589630 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

98-9D-5D (hex) Vantiva USA LLC
989D5D (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

48-4B-D4 (hex) Vantiva USA LLC
484BD4 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

E0-DB-D1 (hex) Vantiva USA LLC
E0DBD1 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

EC-A8-1F (hex) Vantiva USA LLC
ECA81F (base 16) Vantiva USA LLC
4855 Peachtree Industrial Blvd, Suite 20
Norcross GA 30902
US

C4-27-95 (hex) Vantiva USA LLC
C42795 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

E0-88-5D (hex) Vantiva
USA LLC
E0885D (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

80-29-94 (hex) Vantiva USA LLC
802994 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

A0-25-D7 (hex) Aruba, a Hewlett Packard Enterprise Company
A025D7 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

E4-0D-3B (hex) Ericsson AB
E40D3B (base 16) Ericsson AB
Torshamnsgatan 36
Stockholm SE-164 80
SE

EC-53-82 (hex) Honor Device Co., Ltd.
EC5382 (base 16) Honor Device Co., Ltd.
Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District

Shenzhen Guangdong 518040
CN

9C-09-71 (hex) New H3C Technologies Co., Ltd
9C0971 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

98-AB-15
(hex) Fujian Youyike Technology Co.,Ltd
98AB15 (base 16) Fujian Youyike Technology Co.,Ltd
No. 97-1, Sizhi South Road, Liuyi Fourth Road, Lianqiao Village, Chengxi Street, Gutian County, Ningde City, Fujian Province
Ningde Fujian 352000
CN

00-18-AD (hex) NIDEC INSTRUMENTS CORPORATION
0018AD (base 16) NIDEC INSTRUMENTS CORPORATION
5329 Shimosuwa-cho
Suwa-gun Nagano 393-8511
JP

A4-CC-B3 (hex) Xiaomi Communications Co Ltd
A4CCB3 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

EC-E7-C2 (hex) China Mobile Group Device Co.,Ltd.
ECE7C2 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

BC-31-98 (hex) IEEE Registration Authority
BC3198 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

EC-A2-A0 (hex) Taicang T&W
Electronics
ECA2A0 (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

0C-70-43 (hex) Sony Interactive Entertainment Inc.
0C7043 (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

CC-40-85 (hex) WiZ
CC4085 (base 16) WiZ
Unit 1203-5, 12/F, Tower 1, Enterprise Square, 9 Sheung Yuet Road
Kowloon Bay Hong Kong 0000
HK

DC-CD-18 (hex) Nintendo Co.,Ltd
DCCD18 (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

70-93-C1 (hex) eero inc.
7093C1 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

54-49-FC (hex) Ubee Interactive Co., Limited
5449FC (base 16) Ubee Interactive Co., Limited
Flat/RM 1202, 12/F, AT Tower
North Point Hong Kong 180
HK

4C-49-6C (hex) Intel Corporate
4C496C (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah
09000
MY

00-11-A9 (hex) Nurivoice Co., Ltd
0011A9 (base 16) Nurivoice Co., Ltd
NURI Bld, 16 Sapyeong-daero
Seoul Seocho-gu 06552
KR

18-F9-35 (hex) Cisco Systems, Inc
18F935 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

58-8B-1C (hex) Cisco Systems, Inc
588B1C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

C8-15-4E (hex) Intel Corporate
C8154E (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

78-9F-38 (hex) Shenzhen Feasycom Co., Ltd
789F38 (base 16) Shenzhen Feasycom Co., Ltd
Box 508, Building A, Phoenix Wisdom Valley, No. 50, Tiezi Road, Xixiang, Bao'an, Shenzhen
Shenzhen 518102
CN

54-4C-8A (hex) Microsoft Corporation
544C8A (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

90-70-D3 (hex) Fiberhome Telecommunication Technologies Co.,LTD
9070D3
(base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

6C-48-A6 (hex) Fiberhome Telecommunication Technologies Co.,LTD
6C48A6 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

3C-0D-2C (hex) Liquid-Markets GmbH
3C0D2C (base 16) Liquid-Markets GmbH
Obermühle 8
Baar Zug 6340
CH

FC-B9-DF (hex) Motorola Mobility LLC, a Lenovo Company
FCB9DF (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654

US

D0-81-C5 (hex) Juniper Networks
D081C5 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

EC-67-94 (hex) Aruba, a Hewlett Packard Enterprise Company
EC6794 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

F4-BF-BB (hex) China Mobile Group Device Co.,Ltd.
F4BFBB (base
16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

84-AC-60 (hex) Guangxi Hesheng Electronics Co., Ltd.
84AC60 (base 16) Guangxi Hesheng Electronics Co., Ltd.
Hexin Tech Park, Binzhou Industrial Zone, Binyang County, Nanning City, Guangxi Zhuang Autonomous Region
Nanning 530000
CN

9C-A3-89 (hex) Nokia
9CA389 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

5C-10-1E (hex) zte corporation
5C101E (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

20-17-46 (hex) Paradromics, Inc.
201746 (base 16) Paradromics, Inc.
4030 W. Braker LaneBldg. 2 Suite 250
Austin TX 78759
US

C4-60-26 (hex) SKY UK LIMITED
C46026 (base 16) SKY UK LIMITED
Grant Way

Isleworth Middlesex TW7 5QD
GB

90-5A-08 (hex) Super Micro Computer, Inc.
905A08 (base 16) Super
Micro Computer, Inc.
980 Rock Ave
San Jose CA 95131
US

FC-F7-63 (hex) KunGao Micro (JiangSu) Co., LTd
FCF763 (base 16) KunGao Micro (JiangSu) Co., LTd
11th floor, Block C, Haichuang Building, #288 Dengyun Road, Yushan Town, Kunshan City
Kunshan Jiang Su 215300
CN

80-8C-97 (hex) Kaon Group Co., Ltd.
808C97 (base 16) Kaon Group Co., Ltd.
884-3, Seongnam-daero, Bundang-gu
Seongnam-si Gyeonggi-do 13517
KR

4C-12-E8 (hex) VIETNAM POST AND TELECOMMUNICATION INDUSTRY TECHNOLOGY JOIN STOCK COMPANY
4C12E8 (base 16) VIETNAM POST AND TELECOMMUNICATION INDUSTRY TECHNOLOGY JOIN STOCK COMPANY
High Tech Industrial Zone I, Hoa Lac High Tech Park, Ha Bang Commune
Ha Noi Thach That 100000
VN

20-02-FE (hex) Hangzhou Dangbei Network Technology Co., Ltd
2002FE (base 16) Hangzhou Dangbei Network Technology Co., Ltd
Floor 2, Block C, Wanfu Center, 228 Binkang Road, Binjiang District,
Hangzhou zhejiang 310051
CN

74-27-2C
(hex) Advanced Micro Devices, Inc.
74272C (base 16) Advanced Micro Devices, Inc.
7171 Southwest Pkwy
Austin TX 78735
US

20-88-10 (hex) Dell Inc.
208810 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

A0-62-60 (hex) Private
A06260 (base 16) Private

E4-45-19 (hex) Beijing Xiaomi Electronics Co.,Ltd
E44519 (base 16) Beijing Xiaomi Electronics Co.,Ltd
Xiaomi Campus
Beijing Beijing 100085
CN

C0-5B-44 (hex) Beijing Xiaomi Mobile Software Co., Ltd
C05B44 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

E4-B2-24 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E4B224 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A8-3E-D3 (hex) HUAWEI TECHNOLOGIES CO.,LTD
A83ED3 (base 16) HUAWEI TECHNOLOGIES
CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

64-67-CD (hex) HUAWEI TECHNOLOGIES CO.,LTD
6467CD (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

34-EC-B6 (hex) Phyplus Microelectronics Limited
34ECB6 (base 16) Phyplus Microelectronics Limited
304 Building 1 No.608 Sheng Xia Road
Shanghai 200000
CN

4C-D2-FB (hex) UNIONMAN TECHNOLOGY CO.,LTD
4CD2FB (base 16) UNIONMAN TECHNOLOGY CO.,LTD
No.5,Huitai Road,Huinan High-Tech Park,Huiao Highway
Huizhou Guangdong 516025
CN

9C-1E-CF (hex) Valeo Telematik und Akustik GmbH

9C1ECF (base 16) Valeo Telematik und Akustik GmbH
Max-Planck-Straße 28-32
Friedrichsdorf 61381
DE

00-0D-39 (hex) Nevion
000D39 (base 16) Nevion
Lysaker Torg 5
Lysaker NO-1366
NO

80-76-77 (hex) hangzhou puwell cloud tech co., ltd.
807677
(base 16) hangzhou puwell cloud tech co., ltd.
1405 Chuling Data Mansion Wulianwang street 259
Hangzhou Zhejiang 315000
CN

F4-2B-8C (hex) Samsung Electronics Co.,Ltd
F42B8C (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

E4-1A-1D (hex) NOVEA ENERGIES
E41A1D (base 16) NOVEA ENERGIES
3rue Joseph Fourier
BEAUCOUZE Pays de la Loire 49070
FR

F4-CA-E7 (hex) Arcadyan Corporation
F4CAE7 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

3C-EF-42 (hex) TCT mobile ltd
3CEF42 (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

B0-A3-F2 (hex) Huaqin Technology Co. LTD
B0A3F2 (base 16) Huaqin Technology Co. LTD
11th Floor, Unit, No.399 Keyuan Road
Pudong Shanghai 201203
CN

F8-66-91 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
F86691
(base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

E4-38-19 (hex) Shenzhen Hi-Link Electronic CO.,Ltd.
E43819 (base 16) Shenzhen Hi-Link Electronic CO.,Ltd.
Room 1705, 1706, 1709A, 17th Floor, Building E, Xinghe WORLD, Minle Community, Minzhi Street, Longhua District
Shenzhen Guangdong 518000
CN

84-F1-75 (hex) Jiangxi Xunte Intelligent Terminal Co., Ltd
84F175 (base 16) Jiangxi Xunte Intelligent Terminal Co., Ltd
16 # 1-3/F, Zhongxing Nanchang Software Industrial Park, No. 688, Aixihu North Road, Nanchang High-tech Industrial Development Zone, Nanchang, Jiangxi Province
Nanchang Jiangxi 330000
CN

C8-98-28 (hex) zte corporation
C89828 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

DC-36-42 (hex) zte corporation
DC3642 (base 16) zte corporation
12/F.,zte
R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

78-8A-86 (hex) China Dragon Technology Limited
788A86 (base 16) China Dragon Technology Limited
B4 Bldg.Haoshan 1st Industry Park,
Shenzhen Guangdong 518104
CN

60-82-46 (hex) Apple, Inc.
608246 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

98-B3-79 (hex) Apple, Inc.
98B379 (base 16) Apple, Inc.

1 Infinite Loop
Cupertino CA 95014
US

6C-2A-DF (hex) IEEE Registration Authority
6C2ADF (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

84-72-93 (hex) Texas Instruments
847293 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

60-DC-81 (hex) AltoBeam Inc.
60DC81 (base 16) AltoBeam Inc.
B808, Tsinghua Tongfang Hi-Tech Plaza, Haidian
Beijing Beijing 100083
CN

20-E4-6F (hex) vivo Mobile Communication
Co., Ltd.
20E46F (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

88-30-37 (hex) Juniper Networks
883037 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

E8-24-04 (hex) Quectel Wireless Solutions Co.,Ltd.
E82404 (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

F8-2E-0C (hex) Texas Instruments
F82E0C (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

90-06-F2 (hex) Texas Instruments

9006F2 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

E8-6E-3A (hex) Sony Interactive Entertainment Inc.
E86E3A (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

BC-B1-D3 (hex) Cisco Meraki
BCB1D3 (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San
Francisco 94158
US

B8-7B-D4 (hex) Google, Inc.
B87BD4 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

C8-13-8B (hex) Shenzhen Skyworth Digital Technology CO., Ltd
C8138B (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

34-AA-31 (hex) Shenzhen Skyworth Digital Technology CO., Ltd
34AA31 (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

A0-4C-0C (hex) Shenzhen Skyworth Digital Technology CO., Ltd
A04C0C (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

6C-C2-42 (hex) Shenzhen Skyworth Digital Technology CO., Ltd
6CC242 (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

04-9D-05
(hex) Apple, Inc.
049D05 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E0-73-E7 (hex) HP Inc.
E073E7 (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

54-08-3B (hex) IEEE Registration Authority
54083B (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

54-EF-43 (hex) HUAWEI TECHNOLOGIES CO.,LTD
54EF43 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D8-1B-B5 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D81BB5 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

84-64-DD (hex) HUAWEI TECHNOLOGIES CO.,LTD
8464DD (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

68-A4-6A (hex) HUAWEI TECHNOLOGIES CO.,LTD
68A46A
(base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F4-8E-38 (hex) Dell Inc.
F48E38 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682

US

28-F1-0E (hex) Dell Inc.
28F10E (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

90-B1-1C (hex) Dell Inc.
90B11C (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

64-00-6A (hex) Dell Inc.
64006A (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

10-98-36 (hex) Dell Inc.
109836 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

C8-1F-66 (hex) Dell Inc.
C81F66 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

F8-DB-88 (hex) Dell Inc.
F8DB88 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

00-14-22 (hex) Dell Inc.
001422 (base 16) Dell Inc.
One Dell Way
Round
Rock TX 78682
US

00-15-C5 (hex) Dell Inc.
0015C5 (base 16) Dell Inc.
One Dell Way

Round Rock TX 78682
US

78-45-C4 (hex) Dell Inc.
7845C4 (base 16) Dell Inc.
One Dell way
Round Rock 78682
US

5C-26-0A (hex) Dell Inc.
5C260A (base 16) Dell Inc.
One Dell Way, MS RR5-45
Round Rock 78682
US

00-1E-4F (hex) Dell Inc.
001E4F (base 16) Dell Inc.
One Dell Way, MS RR5-45
Round Rock 78682
US

00-26-B9 (hex) Dell Inc.
0026B9 (base 16) Dell Inc.
One Dell Way, MS RR5-45
Round Rock 78682
US

D0-67-E5 (hex) Dell Inc.
D067E5 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

54-4E-45 (hex) Private
544E45 (base 16) Private

20-97-27 (hex) TELTONIKA NETWORKS UAB
209727 (base 16) TELTONIKA NETWORKS UAB
K. Baršausko st. 66, Kaunas
Kaunas LT-51436
LT

00-1A-E8 (hex) Unify Software and Solutions GmbH & Co. KG
001AE8 (base
16) Unify Software and Solutions GmbH & Co. KG
Otto-Hahn-Ring 6
Munich 81739
DE

2C-FE-4F (hex) Xiaomi Communications Co Ltd
2CFE4F (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

90-7E-43 (hex) zte corporation
907E43 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

94-3E-E4 (hex) WiSA Technologies Inc
943EE4 (base 16) WiSA Technologies Inc
15268 Northwest Greenbrier Parkway
Beaverton OR 97006
US

A8-BD-3A (hex) UNION MAN TECHNOLOGY CO.,LTD
A8BD3A (base 16) UNION MAN TECHNOLOGY CO.,LTD
18F, HUAYANG TOWER,YANDAYI ROAD
Huizhou Guangdong 516007
CN

48-CA-C6 (hex) UNION MAN TECHNOLOGY CO.,LTD
48CAC6 (base 16) UNION MAN TECHNOLOGY CO.,LTD
No.5,Huitai Road,Huinan High-Tech Park,Huiao Highway
Huizhou Guangdong 516025
CN

D4-38-44
(hex) UNION MAN TECHNOLOGY CO.,LTD
D43844 (base 16) UNION MAN TECHNOLOGY CO.,LTD
No.5,Huitai Road,Huinan High-Tech Park,Huiao Highway
Huizhou Guangdong 516025
CN

6C-3C-8C (hex) Dell Inc.
6C3C8C (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

C4-5A-B1 (hex) Dell Inc.
C45AB1 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682

US

A8-B0-28 (hex) CubePilot Pty Ltd
A8B028 (base 16) CubePilot Pty Ltd
153 Mercer Street
Geelong Victoria 3220
AU

40-7F-5F (hex) Juniper Networks
407F5F (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

2C-EA-7F (hex) Dell Inc.
2CEA7F (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

F0-D4-E2 (hex) Dell Inc.
F0D4E2 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

CC-48-3A (hex) Dell Inc.
CC483A (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

30-D0-42
(hex) Dell Inc.
30D042 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

8C-04-BA (hex) Dell Inc.
8C04BA (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

E4-54-E8 (hex) Dell Inc.
E454E8 (base 16) Dell Inc.
One Dell Way

Round Rock TX 78682
US

A4-BB-6D (hex) Dell Inc.
A4BB6D (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

E4-43-4B (hex) Dell Inc.
E4434B (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

E0-1F-6A (hex) Huawei Device Co., Ltd.
E01F6A (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

00-56-6D (hex) Huawei Device Co., Ltd.
00566D (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

90-CC-7A (hex) Huawei Device Co., Ltd.
90CC7A (base 16) Huawei Device Co., Ltd.
No.2
of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

8C-C5-8C (hex) ShenZhen Elsky Technology Co.,LTD
8CC58C (base 16) ShenZhen Elsky Technology Co.,LTD
401, building A, wanguocheng, No. 9, Pingji Avenue, Shanglilang community, Nanwan street, Longgang District, Shenzhen
ShenZhen GuangDong 518000
CN

2C-70-4F (hex) zte corporation
2C704F (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

64-52-34 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD

645234 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

38-16-72 (hex) Shenzhen SuperElectron Technology Co.,Ltd.
381672 (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen
Guangdong 518000
CN

6C-29-D2 (hex) Cisco Systems, Inc
6C29D2 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

08-CC-81 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
08CC81 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

F4-54-33 (hex) Rockwell Automation
F45433 (base 16) Rockwell Automation
1 Allen-Bradley Dr.
Mayfield Heights OH 44124-6118
US

34-C0-F9 (hex) Rockwell Automation
34C0F9 (base 16) Rockwell Automation
1 Allen-Bradley Dr.
Mayfield Heights OH 44124-6118
US

5C-88-16 (hex) Rockwell Automation
5C8816 (base 16) Rockwell Automation
1 Allen-Bradley Dr.
Mayfield Heights OH 44124-6118
US

08-15-AE (hex) China Mobile Group Device Co.,Ltd.
0815AE (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

04-B4-FE
(hex) AVM Audiovisuelles Marketing und Computersysteme GmbH
04B4FE (base 16) AVM Audiovisuelles Marketing und Computersysteme GmbH
Alt-Moabit 95
Berlin Berlin 10559
DE

D4-53-47 (hex) Merytronic 2012, S.L.
D45347 (base 16) Merytronic 2012, S.L.
Parque empresarial BoroaParcela 2C-1
Amorebieta Bizkaia 48340
ES

D0-7B-6F (hex) Zhuhai Yunmai Technology Co.,Ltd
D07B6F (base 16) Zhuhai Yunmai Technology Co.,Ltd
Unit 1201-1203, Youte Headquarters Building, No. 88 Xingye Road, Xiangzhou District
Zhuhai Guangdong 519000
CN

04-A5-26 (hex) Nokia
04A526 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

20-BA-36 (hex) u-blox AG
20BA36 (base 16) u-blox AG
Zuercherstrasse, 68
Thalwil Switzerland CH-8800
CH

D8-0A-E6 (hex) zte corporation
D80AE6 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

48-9E-9D
(hex) Hui Zhou Gaoshengda Technology Co.,LTD
489E9D (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.2,Jin-da Road,Huinan Industrial Park
Hui Zhou Guangdong 516025
CN

C0-DD-8A (hex) Meta Platforms Technologies, LLC
C0DD8A (base 16) Meta Platforms Technologies, LLC
1601 Willow Rd
Menlo Park CA 94025

US

CC-A1-74 (hex) Meta Platforms Technologies, LLC
CCA174 (base 16) Meta Platforms Technologies, LLC
1601 Willow Rd
Menlo Park CA 94025
US

18-F4-6B (hex) Telenor Connexion AB
18F46B (base 16) Telenor Connexion AB
116 88
Stockholm Sverige SE-116 88
SE

28-EA-0B (hex) Microsoft Corporation
28EA0B (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

A4-14-37 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
A41437 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.469,Jianghui Road
Hangzhou Zhejiang 310052
CN

F8-4D-FC (hex) Hangzhou
Hikvision Digital Technology Co.,Ltd.
F84DFC (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

84-9A-40 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
849A40 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

C0-51-7E (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
C0517E (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

2C-A5-9C (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
2CA59C (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road

Hangzhou Zhejiang 310052
CN

40-AC-BF (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
40ACBF (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

98-F1-12 (hex) Hangzhou Hikvision
Digital Technology Co.,Ltd.
98F112 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

98-9D-E5 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
989DE5 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

3C-1B-F8 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
3C1BF8 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

9C-65-EE (hex) DZS Inc.
9C65EE (base 16) DZS Inc.
DASAN Tower 8F, 49 Daewangpangyo-ro644beon-gil Bundang-gu
Seongnam-si Gyeonggi-do 13493
KR

9C-54-16 (hex) Cisco Systems, Inc
9C5416 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

48-BD-A7 (hex) Honor Device Co., Ltd.
48BDA7 (base 16) Honor Device Co., Ltd.
Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089,
Hongli West Road, Xiangmihu Street, Futian District
Shenzhen Guangdong 518040
CN

EC-21-50 (hex) vivo Mobile Communication Co., Ltd.

EC2150 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

A0-AF-12 (hex) HUAWEI TECHNOLOGIES CO.,LTD
A0AF12 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

60-96-A4 (hex) HUAWEI TECHNOLOGIES CO.,LTD
6096A4 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

5C-5E-AB (hex) Juniper Networks
5C5EAB (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

78-19-F7 (hex) Juniper Networks
7819F7 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

2C-21-72 (hex) Juniper Networks
2C2172 (base 16) Juniper Networks
1133
Innovation Way
Sunnyvale CA 94089
US

4C-96-14 (hex) Juniper Networks
4C9614 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

78-45-58 (hex) Ubiquiti Inc
784558 (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

AC-8B-A9 (hex) Ubiquiti Inc
AC8BA9 (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

9C-05-D6 (hex) Ubiquiti Inc
9C05D6 (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

28-70-4E (hex) Ubiquiti Inc
28704E (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

00-17-CB (hex) Juniper Networks
0017CB (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

00-1F-12 (hex) Juniper Networks
001F12 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale
CA 94089
US

00-24-DC (hex) Juniper Networks
0024DC (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

00-12-1E (hex) Juniper Networks
00121E (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

00-10-DB (hex) Juniper Networks
0010DB (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

00-22-83 (hex) Juniper Networks
002283 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

10-0E-7E (hex) Juniper Networks
100E7E (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

44-F4-77 (hex) Juniper Networks
44F477 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

5C-6A-EC (hex) IEEE Registration Authority
5C6AEC (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

CC-9F-7A (hex) Chiun Mai Communication System,
Inc
CC9F7A (base 16) Chiun Mai Communication System, Inc
No.4, Minsheng St., Tucheng District
New Taipei City 23678
TW

54-14-A7 (hex) Nanjing Qinheng Microelectronics Co., Ltd.
5414A7 (base 16) Nanjing Qinheng Microelectronics Co., Ltd.
No.18, Ningshuang Road
Nanjing Jiangsu 210012
CN

4C-E7-05 (hex) Siemens Industrial Automation Products Ltd., Chengdu
4CE705 (base 16) Siemens Industrial Automation Products Ltd., Chengdu
Tianyuan Road No.99, High Tech Zone West
Chengdu Sichuan Province 611731
CN

0C-72-74 (hex) AVM Audiovisuelles Marketing und Computersysteme GmbH
0C7274 (base 16) AVM Audiovisuelles Marketing und Computersysteme GmbH
Alt-Moabit 95
Berlin Berlin 10559

DE

80-DB-17 (hex) Juniper Networks
80DB17 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

B8-F0-15 (hex) Juniper Networks
B8F015 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale
CA 94089
US

E4-23-3C (hex) Juniper Networks
E4233C (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

98-86-8B (hex) Juniper Networks
98868B (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

00-58-28 (hex) Axon Networks Inc.
005828 (base 16) Axon Networks Inc.
15420 Laguna Canyon rd.
Irvine CA 92618
US

30-B6-4F (hex) Juniper Networks
30B64F (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

08-B2-58 (hex) Juniper Networks
08B258 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

F4-A7-39 (hex) Juniper Networks
F4A739 (base 16) Juniper Networks
1133 Innovation Way

Sunnyvale CA 94089
US

4C-16-FC (hex) Juniper Networks
4C16FC (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

C8-E7-F0 (hex) Juniper Networks
C8E7F0
(base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

7C-25-86 (hex) Juniper Networks
7C2586 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

EC-38-73 (hex) Juniper Networks
EC3873 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

C0-03-80 (hex) Juniper Networks
C00380 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

20-D8-0B (hex) Juniper Networks
20D80B (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

94-BF-94 (hex) Juniper Networks
94BF94 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

4C-6D-58 (hex) Juniper Networks
4C6D58 (base 16) Juniper Networks

1133 Innovation Way
Sunnyvale CA 94089
US

40-8F-9D (hex) Juniper Networks
408F9D (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

AC-78-D1
(hex) Juniper Networks
AC78D1 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

68-22-8E (hex) Juniper Networks
68228E (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

D8-53-9A (hex) Juniper Networks
D8539A (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

F8-C1-16 (hex) Juniper Networks
F8C116 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

88-0A-A3 (hex) Juniper Networks
880AA3 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

FC-33-42 (hex) Juniper Networks
FC3342 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

3C-8C-93 (hex) Juniper Networks

3C8C93 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

0C-81-26 (hex) Juniper Networks
0C8126 (base 16) Juniper Networks
1133
Innovation Way
Sunnyvale CA 94089
US

18-2A-D3 (hex) Juniper Networks
182AD3 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

74-95-A7 (hex) Keyence Corporation
7495A7 (base 16) Keyence Corporation
1-3-14, Higashinakajima, Higashiyodogawa
Osaka Osaka 5338555
JP

A0-A3-B3 (hex) Espressif Inc.
A0A3B3 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

34-98-7A (hex) Espressif Inc.
34987A (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

68-59-32 (hex) Sunitec Enterprise Co.,Ltd
685932 (base 16) Sunitec Enterprise Co.,Ltd
3F.,No.98-1,Mincyuan Rd.Sindian City
Taipei County 231 231141
CN

B4-B9-E6 (hex) eero inc.
B4B9E6 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

30-B2-16 (hex) Hitachi Energy Germany
AG
30B216 (base 16) Hitachi Energy Germany AG
Havellandstr. 10-14
Mannheim 68309
DE

88-62-5D (hex) BITNETWORKS CO.,LTD
88625D (base 16) BITNETWORKS CO.,LTD
No.606, 83, Samwon-ro, Deogyang-gu, Goyang-si, Gyeonggi-do,Korea
Goyang-si 10550
KR

38-07-16 (hex) FREEBOX SAS
380716 (base 16) FREEBOX SAS
16 rue de la Ville l'Eveque
PARIS IdF 75008
FR

C8-36-A3 (hex) GERTEC BRASIL LTDA
C836A3 (base 16) GERTEC BRASIL LTDA
Avenida Jabaquara, 3060, room 601
Sao Paulo São Paulo 04046500
BR

F4-EE-31 (hex) Cisco Systems, Inc
F4EE31 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

40-45-C4 (hex) HUAWEI TECHNOLOGIES CO.,LTD
4045C4 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

74-87-2E (hex) HUAWEI TECHNOLOGIES CO.,LTD
74872E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2
Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

3C-1E-B5 (hex) Apple, Inc.
3C1EB5 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

AC-86-A3 (hex) Apple, Inc.
AC86A3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-1F-D6 (hex) Shenzhen Allywll
001FD6 (base 16) Shenzhen Allywll
Kejiyuan Nanshan
Shenzhen Guangdong 518057
CN

80-D2-66 (hex) ScaleFlux
80D266 (base 16) ScaleFlux
900 N. McCarthy Blvd.Suite 200
Milpitas CA 95035
US

E4-21-50 (hex) Shanghai Chint low voltage electrical technology Co.,Ltd.
E42150 (base 16) Shanghai Chint low voltage electrical technology Co.,Ltd.
3857 Sixian Road, Songjiang District, Shanghai
Shanghai Shanghai 201616
CN

D4-04-E6 (hex) Broadcom Limited
D404E6 (base 16) Broadcom Limited
15191 Alton Parkway
Irvine CA 92618
US

28-EB-A6 (hex) Nex-T LLC
28EBA6 (base
16) Nex-T LLC
Volgogradsky prospect, 42, building 5, floor 1, room I
Moscow Select State 109316
RU

C0-B3-C8 (hex) LLC NTC Rotek
C0B3C8 (base 16) LLC NTC Rotek
Russian Federation, Moscow, Nizhnyaya Krasnoselskaya st., house 5, building 6, room 03
Moscow 107140
RU

CC-4D-74 (hex) Fujian Newland Payment Technology Co., Ltd.
CC4D74 (base 16) Fujian Newland Payment Technology Co., Ltd.
No. B602, Building #1, HaixiaJingmao Plaza, Fuzhou Bonded Area

Fuzhou 350015
CN

A0-31-EB (hex) Semikron Elektronik GmbH & Co. KG
A031EB (base 16) Semikron Elektronik GmbH & Co. KG
Sigmundstrasse 200
Nürnberg Bavaria 90431
DE

F8-D7-58 (hex) Veratron AG
F8D758 (base 16) Veratron AG
Industriestrasse 18
Rüthi St.Gallen 9464
CH

24-FE-9A (hex) CyberTAN Technology Inc.
24FE9A (base 16) CyberTAN Technology Inc.
99 Park Ave III, Hsinchu Science Park
Hsinchu 308
TW

B4-CB-B8 (hex) Universal
Electronics, Inc.
B4CBB8 (base 16) Universal Electronics, Inc.
201 E Sandpointe Ave
SANTA ANA CA 927075778
US

BC-32-B2 (hex) Samsung Electronics Co.,Ltd
BC32B2 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

E8-10-98 (hex) Aruba, a Hewlett Packard Enterprise Company
E81098 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

EC-8A-48 (hex) Arista Networks
EC8A48 (base 16) Arista Networks
5453 Great America Parkway
Santa Clara CA 95054
US

14-1A-97 (hex) Apple, Inc.
141A97 (base 16) Apple, Inc.

1 Infinite Loop
Cupertino CA 95014
US

8C-5D-B2 (hex) IEEE Registration Authority
8C5DB2 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

88-CE-3F (hex) HUAWEI TECHNOLOGIES CO.,LTD
88CE3F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room
R6,Songshan Lake Technology Park
Dongguan 523808
CN

EC-F8-D0 (hex) HUAWEI TECHNOLOGIES CO.,LTD
ECF8D0 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

30-DF-17 (hex) ALPSALPINE CO,.LTD
30DF17 (base 16) ALPSALPINE CO,.LTD
nishida 6-1
kakuda-City Miyagi-Pref 981-1595
JP

D8-02-8A (hex) Shenzhen YOUHUA Technology Co., Ltd
D8028A (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

B8-3C-28 (hex) Apple, Inc.
B83C28 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

3C-6D-89 (hex) Apple, Inc.
3C6D89 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

AC-45-00 (hex) Apple, Inc.

AC4500 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E8-65-38
(hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
E86538 (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

24-2A-04 (hex) Cisco Systems, Inc
242A04 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

14-1A-AA (hex) Metal Work SpA
141AAA (base 16) Metal Work SpA
Via Segni 5-7-9 25062 Concesio
Brescia Italy 25062
IT

CC-DE-DE (hex) Nokia
CCDEDE (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

74-86-69 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
748669 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

C8-0A-35 (hex) Qingdao Hisense Smart Life Technology Co., Ltd
C80A35 (base 16) Qingdao Hisense Smart Life Technology Co., Ltd
No.399,
Songling Road, Laoshan District
Qingdao Shandong 266100
CN

88-6D-2D (hex) Huawei Device Co., Ltd.
886D2D (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

40-FF-40 (hex) GloquadTech
40FF40 (base 16) GloquadTech
801, Tower-A, 58-1, Giheung-ro, Giheung-gu, Yongin-si, Gyeonggi-do, 16976, Republic of Korea
Yongin-si Gyeonggi-do 16976
KR

24-95-2F (hex) Google, Inc.
24952F (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

10-BE-99 (hex) Netberg
10BE99 (base 16) Netberg
2F-1 No.36, Park St., Nangang District
Taipei 11560
TW

60-DE-F4 (hex) Shenzhen iComm Semiconductor CO.,LTD
60DEF4 (base 16) Shenzhen iComm Semiconductor CO.,LTD
Room 601,Block B ,Digital Building,Garden City
Shenzhen No.1079 Nanhai Road,Nanshan District 518067
CN

84-D3-52 (hex) Tonly Technology Co. Ltd
84D352 (base
16) Tonly Technology Co. Ltd
Section 37, Zhongkai Hi-Tech Development Zone
Huizhou Guangdong 516006
CN

04-70-56 (hex) Arcadyan Corporation
047056 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

B8-94-D9 (hex) Texas Instruments
B894D9 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

7C-E2-69 (hex) Texas Instruments
7CE269 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243

US

08-04-B4 (hex) Texas Instruments
0804B4 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

30-AF-7E (hex) Texas Instruments
30AF7E (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

84-B1-E4 (hex) Apple, Inc.
84B1E4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

54-EB-E9 (hex) Apple, Inc.
54EBE9 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

AC-16-15
(hex) Apple, Inc.
AC1615 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

EC-73-79 (hex) Apple, Inc.
EC7379 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

1C-C3-16 (hex) Xiamen Milesight IoT Co., Ltd.
1CC316 (base 16) Xiamen Milesight IoT Co., Ltd.
Building C09, Software Park Phase III
Xiamen Fujian 361024
CN

3C-6A-48 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
3C6A48 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan

Shenzhen Guangdong 518057
CN

FC-2A-46 (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
FC2A46 (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

9C-FA-3C (hex) Daeyoung Electronics
9CFA3C (base 16) Daeyoung Electronics
Pyeongdongsandan
8beon-ro 54-5
Gwangju 62466
KR

28-CF-51 (hex) Nintendo Co.,Ltd
28CF51 (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

FC-B0-DE (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
FCB0DE (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

04-4A-6A (hex) niliwi nanjing big data Co,.Ltd
044A6A (base 16) niliwi nanjing big data Co,.Ltd
Building 6, No. 699-27, Xuanwu Avenue, Xuanwu District, Nanjing
Nanjing Jangsu 210023
CN

64-C6-D2 (hex) Seiko Epson Corporation
64C6D2 (base 16) Seiko Epson Corporation
2070 Kotobuki Koaka
Matsumoto-shi Nagano-ken 399-8702
JP

0C-35-26 (hex) Microsoft Corporation
0C3526 (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

80-61-6C (hex) New

H3C Technologies Co., Ltd
80616C (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

40-B6-07 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
40B607 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

48-1F-66 (hex) China Mobile Group Device Co.,Ltd.
481F66 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

78-24-59 (hex) Alcatel-Lucent Enterprise
782459 (base 16) Alcatel-Lucent Enterprise
26801 West Agoura Rd
Calabasas CA 91301
US

F4-4D-5C (hex) Zyxel Communications Corporation
F44D5C (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

10-68-38 (hex) AzureWave Technology Inc.
106838 (base 16) AzureWave Technology Inc.
8F., No.94, Baozhong
Rd., Xindian
Taipei 231
US

78-07-1C (hex) Green Energy Options Ltd
78071C (base 16) Green Energy Options Ltd
3 St. Mary's Court, Main Street
Cambridge Cambridgeshire CB23 7QS
GB

1C-8B-EF (hex) Beijing Xiaomi Electronics Co.,Ltd
1C8BEF (base 16) Beijing Xiaomi Electronics Co.,Ltd
Xiaomi Campus
Beijing Beijing 100085
CN

28-E2-97 (hex) Shanghai InfoTM Microelectronics Co.,Ltd
28E297 (base 16) Shanghai InfoTM Microelectronics Co.,Ltd
building 11,NO.115,lane 572,BiBo Road,
ShangHai 201203
CN

58-F8-5C (hex) LLC Proizvodstvennaya Kompania TransService
58F85C (base 16) LLC Proizvodstvennaya Kompania TransService
Ulitsa Podolskih Kursantov, build. 3, of. 133
Moscow Moscow 117545
RU

30-44-49 (hex) PLATH Signal Products GmbH & Co. KG
304449 (base 16) PLATH Signal Products GmbH & Co. KG
Gotenstrasse 18
Hamburg 20097
DE

EC-C3-B0 (hex) zte corporation
ECC3B0 (base
16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

BC-BD-84 (hex) zte corporation
BCBD84 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

5C-B1-2E (hex) Cisco Systems, Inc
5CB12E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

BC-6B-FF (hex) Guangzhou Shiyuan Electronic Technology Company Limited
BC6BFF (base 16) Guangzhou Shiyuan Electronic Technology Company Limited
No.6, 4th Yunpu Road, Yunpu industry District
Guangzhou Guangdong 510530
CN

00-30-1A (hex) SMARTBRIDGES PTE. LTD.
00301A (base 16) SMARTBRIDGES PTE. LTD.
745 Toa Payoh Lorong 5
319455

SG

B4-57-E6 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
B457E6 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG
DONG 523860
CN

70-03-3F (hex) Pimax Technology(ShangHai)Co.,Ltd
70033F (base 16) Pimax Technology(ShangHai)Co.,Ltd
3000 Longdong Avenue,Pudong New Area
Shanghai 200120
CN

80-F1-A4 (hex) HUAWEI TECHNOLOGIES CO.,LTD
80F1A4 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A4-6C-24 (hex) HUAWEI TECHNOLOGIES CO.,LTD
A46C24 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

08-7B-12 (hex) Sagemcom Broadband SAS
087B12 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

50-D4-5C (hex) Amazon Technologies Inc.
50D45C (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

44-D5-06 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
44D506 (base 16) Sichuan Tianyi Comheart Telecom
Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

2C-69-CC (hex) Valeo Detection Systems
2C69CC (base 16) Valeo Detection Systems

Laiernstrasse 12
Bietigheim-Bissingen baden württemberg 74321
DE

D4-61-37 (hex) IEEE Registration Authority
D46137 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

08-08-5C (hex) Luna Products
08085C (base 16) Luna Products
3145 Tiger Run Ct, Ste 110
Carlsbad CA 92010
US

2C-8A-C7 (hex) Ubee Interactive Co., Limited
2C8AC7 (base 16) Ubee Interactive Co., Limited
Flat/RM 1202, 12/F, AT Tower, 180 Electric Road
North Point 00000
HK

D0-CF-0E (hex) Sagemcom Broadband SAS
D0CF0E (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

10-5F-02 (hex) Private
105F02 (base 16) Private

80-DE-CC (hex) HYBE
Co.,LTD
80DECC (base 16) HYBE Co.,LTD
42, Hangang-daero
Yongsan-gu Seoul 04389
KR

A0-ED-6D (hex) Ubee Interactive Co., Limited
A0ED6D (base 16) Ubee Interactive Co., Limited
Flat/RM 1202, 12/F, AT Tower, 180 Electric Road
North Point 00000
HK

C4-EB-42 (hex) Sagemcom Broadband SAS
C4EB42 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848

FR

F8-34-5A (hex) Hitron Technologies. Inc
F8345A (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

70-C9-32 (hex) Dreame Technology (Suzhou) Limited
70C932 (base 16) Dreame Technology (Suzhou) Limited
Shangjiwan Headquarter, Building E3 Economic Garden, 2288 Wuzhong Blvd
Suzhou Jiangsu 215000
CN

30-19-84 (hex) HUAWEI TECHNOLOGIES CO.,LTD
301984 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng
Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F8-C2-49 (hex) AMPERE COMPUTING LLC
F8C249 (base 16) AMPERE COMPUTING LLC
4555 GREAT AMERICA PARKWAY
SANTA CLARA CA 95054
US

64-8C-BB (hex) Texas Instruments
648CBB (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

74-B8-39 (hex) Texas Instruments
74B839 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

C4-D3-6A (hex) Texas Instruments
C4D36A (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

98-89-24 (hex) Texas Instruments
988924 (base 16) Texas Instruments
12500 TI Blvd

Dallas TX 75243
US

34-15-93 (hex) Ruckus Wireless
341593 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

B0-8B-BE (hex) ABL GmbH
B08BBE (base 16) ABL GmbH
Albert-Buettner-Str. 11
Lauf 91207
DE

0C-B9-37 (hex) Ubee Interactive Co.,
Limited
0CB937 (base 16) Ubee Interactive Co., Limited
Flat/RM 1202, 12/F, AT Tower
North Point Hong Kong 180
HK

44-0C-EE (hex) Robert Bosch Elektronikai Kft.
440CEE (base 16) Robert Bosch Elektronikai Kft.
Robert Bosch u. 1.
Hatvan Heves County 3000
HU

A0-17-F1 (hex) Allwinner Technology Co., Ltd
A017F1 (base 16) Allwinner Technology Co., Ltd
No.9 Technology Road 2, High-Tech Zone
Zhuhai Guangdong 519085
CN

2C-6F-4E (hex) Hubei Yuan Times Technology Co.,Ltd.
2C6F4E (base 16) Hubei Yuan Times Technology Co.,Ltd.
No. B1345, Chuanggu Start-up Area, Taizi Lake Cultural and Digital Creative Industry Park, No. 18 Shenlong Avenue, Wuhan Economic & Technological Development Zone
wuhan hubei 430050
CN

48-8F-4C (hex) shenzhen trolink Technology Co.,Ltd
488F4C (base 16) shenzhen trolink Technology Co.,Ltd
F/5 Building -E ,Fenda Hight Technology Park,Sanwei Hangcheng Street,Bao'an ,Shenzhen

shenzhen gangdong 518101
CN

74-4D-6D (hex) HUAWEI TECHNOLOGIES CO.,LTD
744D6D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C4-35-D9 (hex) Apple, Inc.
C435D9 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

AC-C9-06 (hex) Apple, Inc.
ACC906 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

04-BC-6D (hex) Apple, Inc.
04BC6D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A8-F1-B2 (hex) Allwinner Technology Co., Ltd
A8F1B2 (base 16) Allwinner Technology Co., Ltd
No.9 Technology Road 2, High-Tech Zone
Zhuhai Guangdong 519085
CN

FC-E9-D8 (hex) Amazon Technologies Inc.
FCE9D8 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

64-29-43 (hex) D-Link Corporation
642943 (base 16) D-Link Corporation
No.289, Sinhu 3rd Rd.,
Neihu District,
Taipei City 114
TW

58-5B-69 (hex) TVT CO., LTD
585B69 (base 16) TVT CO., LTD
23rd Floor Building B4 Block 9, Shenzhen Bay science and technology ecological garden, Nanshan District,
Shenzhen Guangdong 518057
CN

B8-B2-F7 (hex) DRIMAES INC.
B8B2F7 (base 16) DRIMAES INC.
#301, 19, Seongsuil-ro, Seongdong-gu
SEOUL 04779
KR

C4-98-94 (hex) IEEE Registration Authority
C49894 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

8C-FA-DD (hex) HUAWEI TECHNOLOGIES CO.,LTD
8CFADD (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F8-9A-25 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F89A25 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

08-3A-8D (hex) Espressif Inc.
083A8D (base 16) Espressif Inc.
Room
204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

84-23-88 (hex) Ruckus Wireless
842388 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

38-65-04 (hex) Honor Device Co., Ltd.
386504 (base 16) Honor Device Co., Ltd.
Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District
Shenzhen Guangdong 518040
CN

38-BD-7A (hex) Aruba, a Hewlett Packard Enterprise Company
38BD7A (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd

Santa Clara CA 95054
US

F8-71-0C (hex) Xiaomi Communications Co Ltd
F8710C (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

3C-13-5A (hex) Xiaomi Communications Co Ltd
3C135A (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle
Road
Beijing Haidian District 100085
CN

90-F8-2E (hex) Amazon Technologies Inc.
90F82E (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

C0-84-E0 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C084E0 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

90-01-17 (hex) HUAWEI TECHNOLOGIES CO.,LTD
900117 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E0-B6-68 (hex) zte corporation
E0B668 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

A4-9D-DD (hex) Samsung Electronics Co.,Ltd
A49DDD (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

6C-55-63 (hex) Samsung Electronics Co.,Ltd
6C5563 (base 16) Samsung Electronics Co.,Ltd

#94-1,
Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

10-9F-4F (hex) New H3C Intelligence Terminal Co., Ltd.
109F4F (base 16) New H3C Intelligence Terminal Co., Ltd.
Room 406-100, 1 Yichuang Street, China-Singapore Guangzhou Knowledge City, Huangpu District, Guangzhou.
Guangzhou Guangdong 510030
CN

38-9E-80 (hex) zte corporation
389E80 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

88-0F-A2 (hex) Sagemcom Broadband SAS
880FA2 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

DC-97-E6 (hex) Sagemcom Broadband SAS
DC97E6 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

D4-92-B9 (hex) ORION NOVA, S.L.
D492B9 (base 16) ORION NOVA, S.L.
CALLE LARRAMENDI 12C 6A
TOLOSA PAIS VASCO 20400
ES

00-1B-B5 (hex) Cherry
GmbH
001BB5 (base 16) Cherry GmbH
Cherrystraße 1
Auerbach i. d. Opf. Bayern D-91275
DE

68-AA-C4 (hex) Altice Labs S.A.
68AAC4 (base 16) Altice Labs S.A.
NIF 504705610, Rua Eng. José Ferreira Pinto Basto
Aveiro 3810-106
PT

68-B8-BB (hex) Beijing Xiaomi Electronics Co.,Ltd
68B8BB (base 16) Beijing Xiaomi Electronics Co.,Ltd
Xiaomi Campus
Beijing Beijing 100085
CN

14-AC-60 (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
14AC60 (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

1C-22-85 (hex) Serrature Meroni SpA
1C2285 (base 16) Serrature Meroni SpA
Via Valsorda
INVERIGO CO 22044
IT

80-FD-7B (hex) BLU Products Inc
80FD7B (base 16) BLU Products Inc
10814 NW 33rd Street
Miami FL 33172
US

58-93-51 (hex) Huawei Device Co., Ltd.
589351
(base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

2C-A7-EF (hex) OnePlus Technology (Shenzhen) Co., Ltd
2CA7EF (base 16) OnePlus Technology (Shenzhen) Co., Ltd
18C02, 18C03, 18C04 ,18C05,TAIRAN BUILDING,
Shenzhen Guangdong 518000
CN

50-FD-D5 (hex) SJI Industry Company
50FDD5 (base 16) SJI Industry Company
54-33, Dongtanhana 1-gil
Hwaseong-si Gyeonggi-do 18423
KR

D0-F4-F7 (hex) Huawei Device Co., Ltd.
D0F4F7 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

D4-E9-8A (hex) Intel Corporate
D4E98A (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

EC-96-BF (hex) eSystems MTG GmbH
EC96BF (base 16) eSystems MTG GmbH
Bahnhofstraße 100
Wendlingen 73240
DE

D4-20-00 (hex) IEEE Registration Authority
D42000 (base 16) IEEE
Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

70-4D-E7 (hex) TECNO MOBILE LIMITED
704DE7 (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

74-D8-73 (hex) GUANGDONG GENIUS TECHNOLOGY CO., LTD.
74D873 (base 16) GUANGDONG GENIUS TECHNOLOGY CO., LTD.
No.168, Middle Road Of East Gate
Xiaobian Community Chang'an Town 523851
CN

30-DE-4B (hex) TP-Link Corporation Limited
30DE4B (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

68-26-24 (hex) Ergatta
682624 (base 16) Ergatta
40 W 25th St Fl 9
New York NY 10010
US

A0-21-8B (hex) ACE Antenna Co., ltd
A0218B (base 16) ACE Antenna Co., ltd
Dong Van II Industrial Zone, Bach Thuong Ward, Duy Tien Town

Hanam
400000
VN

20-84-F5 (hex) Yufei Innovation Software(Shenzhen) Co., Ltd.
2084F5 (base 16) Yufei Innovation Software(Shenzhen) Co., Ltd.
115, Building 15, Maker Town, No.4109, Liuxian Avenue, Pingshan Community, Taoyuan Street, Nanshan District, Shenzhen
Shenzhen 518051
CN

14-21-03 (hex) Calix Inc.
142103 (base 16) Calix Inc.
2777 Orchard Pkwy
San Jose CA 95131
US

40-B1-5C (hex) HUAWEI TECHNOLOGIES CO.,LTD
40B15C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

28-80-8A (hex) HUAWEI TECHNOLOGIES CO.,LTD
28808A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

34-66-79 (hex) HUAWEI TECHNOLOGIES CO.,LTD
346679 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

44-8C-AB
(hex) Beijing Flitlink Vientiane Technology Co., LTD
448CAB (base 16) Beijing Flitlink Vientiane Technology Co., LTD
Building 23, No. 18, Anning Zhuang East Road, Qinghe, Haidian District, Beijing
Beijing 100083
CN

C4-D4-96 (hex) Shenzhen Excelsecu Data Technology Co.,Ltd
C4D496 (base 16) Shenzhen Excelsecu Data Technology Co.,Ltd
Unit 701-708,7/F,South Block,SDGI Building A,No.2,Kefeng Road,YueHai Street , Nanshan District,Shenzhen, China.
Shenzhen 518057
CN

6C-97-AA (hex) AI TECHNOLOGY CO.,LTD.
6C97AA (base 16) AI TECHNOLOGY CO.,LTD.
2-4-5,AZABUDAI,MINATO-KU
Tokyo 106-0041
JP

6C-65-67 (hex) BELIMO Automation AG
6C6567 (base 16) BELIMO Automation AG
brunnenbachstrasse 1
Hinwil Zurich 8340
CH

D0-DA-D7 (hex) Apple, Inc.
D0DAD7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C4-AC-AA (hex) Apple, Inc.
C4ACAA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino
CA 95014
US

4C-24-CE (hex) Sichuan AI-Link Technology Co., Ltd.
4C24CE (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou, Industrial Park
Mianyang Sichuan 622650
CN

1C-97-FB (hex) CoolBitX Ltd.
1C97FB (base 16) CoolBitX Ltd.
Suite 102, Cannon Place, P.O. Box 712, N. Sound Rd
George Town Grand Cayman KY1-9006
KY

2C-32-6A (hex) Apple, Inc.
2C326A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

6C-B1-33 (hex) Apple, Inc.
6CB133 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

28-E7-1D (hex) Arista Networks
28E71D (base 16) Arista Networks
5453 Great America Parkway
Santa Clara CA 95054
US

10-E8-40 (hex) ZOWEE TECHNOLOGY(HEYUAN) CO., LTD.
10E840 (base 16) ZOWEE TECHNOLOGY(HEYUAN) CO., LTD.
Runye Precision Manufacturing Industrial Park,among the north of Xiangjing Road, the west of Xinpi Road and the south of Yangzi Road,
locatd in the High-tech Zone, Heyuan City Guangdong Province
Heyuan Guangdong 517000
CN

44-05-E8 (hex) twareLAB
4405E8 (base 16) twareLAB
338 Gwanggyojungang-ro
yongin gyeonggi 16942
KR

78-F1-C6 (hex) Cisco Systems, Inc
78F1C6 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

34-1B-2D (hex) Cisco Systems, Inc
341B2D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

84-3C-4C (hex) Robert Bosch SRL
843C4C (base 16) Robert Bosch SRL
Horia Macelariu 30-34
Bucharest 013937
RO

88-28-7D (hex) AltoBeam (China) Inc.
88287D (base 16) AltoBeam (China) Inc.
B808, Tsinghua Tongfang Hi-Tech Plaza, Haidian
Beijing Beijing 100083
CN

44-5A-DF (hex) MIKAMI & CO., LTD.
445ADF (base 16) MIKAMI & CO., LTD.

1-5-23 Eda-Nishi, Aoba-Ku
Yokohama-Shi Kanagawa-Pre 225-0014
JP

08-6E-9C (hex) Huawei Device Co., Ltd.
086E9C
(base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

44-16-FA (hex) Samsung Electronics Co.,Ltd
4416FA (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

FC-67-1F (hex) Tuya Smart Inc.
FC671F (base 16) Tuya Smart Inc.
160 Greentree Drive, Suite 101
Dover DE 19904
US

78-C5-7D (hex) Zyxel Communications Corporation
78C57D (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

8C-35-92 (hex) Guangzhou Shiyuan Electronic Technology Company Limited
8C3592 (base 16) Guangzhou Shiyuan Electronic Technology Company Limited
No.6, 4th Yunpu Road, Yunpu industry District
Guangzhou Guangdong 510530
CN

A0-46-5A (hex) Motorola Mobility LLC, a Lenovo Company
A0465A (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago
IL 60654
US

64-B5-F2 (hex) Samsung Electronics Co.,Ltd
64B5F2 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

8C-06-CB (hex) Toradex AG
8C06CB (base 16) Toradex AG
Ebenaustrasse 10
Horw LU 6048
CH

A4-0E-75 (hex) Aruba, a Hewlett Packard Enterprise Company
A40E75 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

38-A8-9B (hex) Fiberhome Telecommunication Technologies Co.,LTD
38A89B (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

64-37-A4 (hex) TOKYOSHUHA CO.,LTD.
6437A4 (base 16) TOKYOSHUHA CO.,LTD.
1-8-9 KANDAIZUMICHO
CHIYODA-KU TOKYO 101-0024
JP

90-CA-FA (hex) Google, Inc.
90CAFA (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

DC-AA-43 (hex) Shenzhen Terca Information Technology
Co., Ltd.
DCAA43 (base 16) Shenzhen Terca Information Technology Co., Ltd.
Room1401, Block A, Building 12 , Shenzhen Bay Technology and Eco-Park , No. 18 Keji South Road , Nanshan District , Shenzhen
SHENZHEN GUANGDONG 518000
CN

44-71-47 (hex) Beijing Xiaomi Electronics Co.,Ltd
447147 (base 16) Beijing Xiaomi Electronics Co.,Ltd
Xiaomi Campus
Beijing Beijing 100085
CN

F4-BB-C7 (hex) vivo Mobile Communication Co., Ltd.
F4BBC7 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860

CN

00-FB-F9 (hex) Axiado Corporation
00FBF9 (base 16) Axiado Corporation
2610 Orchard Parkway, Suite 300
San Jose CA 95134
US

98-66-10 (hex) zte corporation
986610 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

A8-DC-5A (hex) Digital Watchdog
A8DC5A (base 16) Digital Watchdog
16220
Bloomfield Ave
Cerritos CA 90703
US

1C-24-CD (hex) ASKEY COMPUTER CORP
1C24CD (base 16) ASKEY COMPUTER CORP
10F, No.119, JIANKANG RD.,ZHINGHE DIST,
NEW TAIPEI CITY 23585
TW

6C-72-E2 (hex) amitek
6C72E2 (base 16) amitek
#311, KETI, 226, Chemdangwari-ro, Buk-gu, Gwangju, 61011, Rep. of KOREA
Gwangju 61011
KR

04-D9-C8 (hex) Hon Hai Precision Industry Co., Ltd.
04D9C8 (base 16) Hon Hai Precision Industry Co., Ltd.
GuangDongShenZhen
ShenZhen GuangDong 518109
CN

90-65-60 (hex) EM Microelectronic
906560 (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

A0-FB-83 (hex) Honor Device Co., Ltd.
A0FB83 (base 16) Honor Device Co., Ltd.
Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian

District
Shenzhen Guangdong 518040
CN

DC-0B-09 (hex) Cisco Systems, Inc
DC0B09 (base 16) Cisco
Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

08-F3-FB (hex) Cisco Systems, Inc
08F3FB (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A0-36-BC (hex) ASUSTek COMPUTER INC.
A036BC (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

84-0B-BB (hex) MitraStar Technology Corp.
840BBB (base 16) MitraStar Technology Corp.
No. 6, Innovation Road II,
Hsinchu 300
TW

E0-08-71 (hex) Dongguan Liesheng Electronic Co., Ltd.
E00871 (base 16) Dongguan Liesheng Electronic Co., Ltd.
F5, Building B, North Block, Gaosheng Tech Park, No. 84 Zhongli Road, Nancheng District, Dongguan Ci
dongguan guangdong 523000
CN

9C-95-6E (hex) Microchip Technology Inc.
9C956E (base 16) Microchip Technology Inc.
2355 W. Chandler Blvd.
Chandler AZ 85224
US

10-73-EB (hex) Infiniti Electro-Optics
1073EB (base 16) Infiniti
Electro-Optics
15 - 9th Ave S
Cranbrook British Columbia V1C 2L9
CA

2C-A7-74 (hex) Texas Instruments
2CA774 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

18-7A-3E (hex) Silicon Laboratories
187A3E (base 16) Silicon Laboratories
400 West Cesar Chavez Street
Austin TX 78701
US

30-05-05 (hex) Intel Corporate
300505 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

B0-DC-EF (hex) Intel Corporate
B0DCEF (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

74-13-EA (hex) Intel Corporate
7413EA (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

78-C2-13 (hex) Sagemcom Broadband SAS
78C213 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

40-22-D8 (hex) Espressif Inc.
4022D8 (base 16) Espressif
Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

18-4E-03 (hex) HMD Global Oy
184E03 (base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo 02600
FI

70-B3-06 (hex) Apple, Inc.
70B306 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B8-49-6D (hex) Apple, Inc.
B8496D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

9C-92-4F (hex) Apple, Inc.
9C924F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

20-0E-2B (hex) Apple, Inc.
200E2B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-D7-93 (hex) Apple, Inc.
F0D793 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

DC-F3-1C (hex) Texas Instruments
DCF31C (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

54-45-38 (hex) Texas Instruments
544538 (base 16) Texas Instruments
12500
TI Blvd
Dallas TX 75243
US

30-3D-51 (hex) IEEE Registration Authority
303D51 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554

US

38-F0-C8 (hex) Logitech
38F0C8 (base 16) Logitech
7700 Gateway Blvd
Newark CA 94560
US

34-FE-1C (hex) CHOUNG HWA TECH CO.,LTD
34FE1C (base 16) CHOUNG HWA TECH CO.,LTD
#31 Jangja-ro, Namdong-gu
Incheon-si 21532
KR

60-CF-69 (hex) meerecompany
60CF69 (base 16) meerecompany
69-12, Jeongmunsongsan-ro, Yanggam-myeon, Hwaseong-si, Gyeonggi-do, Republic of Korea
Hwaseong-si 18630
KR

4C-62-7B (hex) SmartCow AI Technologies Taiwan Ltd.
4C627B (base 16) SmartCow AI Technologies Taiwan Ltd.
16F., No. 102, Songlong Rd., Xinyi Dist.,
Taipei City 110059
TW

28-BC-05 (hex) BLU Products Inc
28BC05 (base 16) BLU Products Inc
10814 NW 33rd Street
Miami FL 33172
US

1C-EF-03 (hex) Guangzhou
V-SOLUTION Electronic Technology Co., Ltd.
1CEF03 (base 16) Guangzhou V-SOLUTION Electronic Technology Co., Ltd.
Room 601,Originality Building B2, NO.162 Science Avenue,Science Town
Guangzhou Guangdong 510663
CN

58-B0-3E (hex) Nintendo Co.,Ltd
58B03E (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

AC-4E-65 (hex) Fiberhome Telecommunication Technologies Co.,LTD
AC4E65 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road

Wuhan Hubei 430074
CN

A8-80-38 (hex) ShenZhen MovingComm Technology Co., Limited
A88038 (base 16) ShenZhen MovingComm Technology Co., Limited
5F, FuXinFa Industrial Park, LiuXianDong Industrial Zone,
ShenZhen GuangDong 518055
CN

BC-5D-A3 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
BC5DA3 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu
Sichuan 611330
CN

BC-7B-72 (hex) Huawei Device Co., Ltd.
BC7B72 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

F8-2B-7F (hex) Huawei Device Co., Ltd.
F82B7F (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

40-C3-BC (hex) Huawei Device Co., Ltd.
40C3BC (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

28-53-E0 (hex) Sintela Ltd
2853E0 (base 16) Sintela Ltd
The Distillery, The Old Brewery, 9-11 Lodway,
Pill Bristol BS20 0DH
GB

D8-68-A0 (hex) Samsung Electronics Co.,Ltd
D868A0 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

04-29-2E (hex) Samsung Electronics Co.,Ltd
04292E (base 16) Samsung Electronics Co.,Ltd

#94-1, Imsoo-Dong
Gumi Gyeongbuk
730-350
KR

68-7F-F0 (hex) TP-Link Corporation Limited
687FF0 (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

34-5D-A8 (hex) Cisco Systems, Inc
345DA8 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E0-80-6B (hex) Xiaomi Communications Co Ltd
E0806B (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

70-50-E7 (hex) IEEE Registration Authority
7050E7 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

70-AC-08 (hex) Silicon Laboratories
70AC08 (base 16) Silicon Laboratories
400 West Cesar Chavez Street
Austin TX 78701
US

38-FD-F5 (hex) Renesas Electronics (Penang) Sdn. Bhd.
38FDF5 (base 16) Renesas Electronics (Penang) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan
Lepas Penang 11900
MY

3C-26-E4 (hex) Cisco Systems, Inc
3C26E4 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

38-91-B7 (hex) Cisco Systems, Inc
3891B7 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

DC-36-0C (hex) Hitron Technologies. Inc
DC360C (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

38-12-7B (hex) Crenet Labs Co., Ltd.
38127B (base 16) Crenet Labs Co., Ltd.
Rm. 1, 10F., No. 181, Sec. 1, Datong Rd.
New Taipei City Xizhi Dist. 221451
TW

B0-E4-5C (hex) Samsung Electronics Co.,Ltd
B0E45C (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

88-F2-BD (hex) GD Midea Air-Conditioning Equipment Co.,Ltd.
88F2BD (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
Midea Global
Innovation Center,Beijiao Town,Shunde
Foshan Guangdong 528311
CN

6C-08-31 (hex) ANALOG SYSTEMS
6C0831 (base 16) ANALOG SYSTEMS
UNIT 12, 38 DLF INDUSTRIAL AREA KIRTI NAGAR NEW DELHI
NEW DELHI DELHI 110015
IN

A4-7E-FA (hex) Withings
A47EFA (base 16) Withings
2 rue Maurice Hartmann
Issy-les-Moulineaux 92130
FR

78-91-DE (hex) Guangdong ACIGA Science&Technology Co.,Ltd
7891DE (base 16) Guangdong ACIGA Science&Technology Co.,Ltd
L203 Biguiyuan International Club, Beijiao Town, Shunde District
Fo Shan Guangdong 528312
CN

BC-4C-A0 (hex) HUAWEI TECHNOLOGIES CO.,LTD
BC4CA0 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

74-34-2B (hex) HUAWEI TECHNOLOGIES CO.,LTD
74342B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C4-12-EC (hex) HUAWEI
TECHNOLOGIES CO.,LTD
C412EC (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

AC-A3-2F (hex) Solidigm Technology
ACA32F (base 16) Solidigm Technology
1921 Corporate Center Circle, Suite 3B
Longmont 80501
US

4C-9E-6C (hex) BROADEX TECHNOLOGIES CO.LTD
4C9E6C (base 16) BROADEX TECHNOLOGIES CO.LTD
NO.306 YATAI ROAD
JIAXING ZHEJIANG 314006
CN

8C-98-06 (hex) SHENZHEN SEI ROBOTICS CO.,LTD
8C9806 (base 16) SHENZHEN SEI ROBOTICS CO.,LTD
the 4th floor,Productivity Building D,#5 Hi-Tech Middle 2nd Road,Shenzhen Hi-Tech Industrial Park, Nanshan District,Shenzhen,China
Shenzhen 518000
CN

20-08-89 (hex) zte corporation
200889 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

20-0B-CF (hex) Nintendo Co.,Ltd
200BCF (base 16) Nintendo Co.,Ltd
11-1

HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

70-70-FC (hex) GOLD&WATER INDUSTRIAL LIMITED
7070FC (base 16) GOLD&WATER INDUSTRIAL LIMITED
NO.77 Leighton Road, 17/F Leighton Centre Causeway Bay ,HongKong
HongKong 999077
HK

98-D9-3D (hex) Demant Enterprise A/S
98D93D (base 16) Demant Enterprise A/S
Kongebakken 9
Smorum 2765
DK

B4-A6-78 (hex) Zhejiang Tmall Technology Co., Ltd.
B4A678 (base 16) Zhejiang Tmall Technology Co., Ltd.
No.969 Wenyi West Road, Wuchang Street, Yuhang District
Hangzhou Zhejiang 310024
CN

AC-C4-BD (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
ACC4BD (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

E4-B6-33 (hex) Wuxi Stars Microsystem Technology Co., Ltd
E4B633 (base 16) Wuxi Stars Microsystem Technology Co., Ltd
Room 2101, Tower C, Swan Tower, Wuxi Software Park,
111 Linghu Avenue, Xinwu District
Wuxi 214135
CN

08-51-04 (hex) Huawei Device Co., Ltd.
085104 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

78-5B-64 (hex) Huawei Device Co., Ltd.
785B64 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

54-E1-5B (hex) Huawei Device Co., Ltd.

54E15B (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

24-26-D6 (hex) HUAWEI TECHNOLOGIES CO.,LTD
2426D6 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

EC-81-9C (hex) HUAWEI TECHNOLOGIES CO.,LTD
EC819C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C4-A1-0E (hex) IEEE Registration Authority
C4A10E
(base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

54-2F-04 (hex) Shanghai Longcheer Technology Co., Ltd.
542F04 (base 16) Shanghai Longcheer Technology Co., Ltd.
Bldg 1,No.401,Caobao RD,Xuhui Dist
Shanghai 200233
CN

1C-A4-10 (hex) Amlogic, Inc.
1CA410 (base 16) Amlogic, Inc.
2518 Mission College Blvd, Suite 120
Santa Clara CA 95054
US

98-C8-1C (hex) BAYTEC LIMITED
98C81C (base 16) BAYTEC LIMITED
107C, 31/f, The gateway, Tower 5, Harbour City, 15 canton road, Tsim Sha Tsui, Hong Kong
Harbour 999077
HK

74-84-69 (hex) Nintendo Co.,Ltd
748469 (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

8C-CB-DF (hex) FOXCONN INTERCONNECT TECHNOLOGY
8CCBDF (base 16) FOXCONN INTERCONNECT TECHNOLOGY
66-1 Zhongshan Road, Tucheng District
New Taipei City Taiwan 23680
TW

20-0B-16 (hex) Texas
Instruments
200B16 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

88-01-F9 (hex) Texas Instruments
8801F9 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

F8-55-48 (hex) Texas Instruments
F85548 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

68-E7-4A (hex) Texas Instruments
68E74A (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

70-A6-BD (hex) Honor Device Co., Ltd.
70A6BD (base 16) Honor Device Co., Ltd.
Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District
Shenzhen Guangdong 518040
CN

84-69-93 (hex) HP Inc.
846993 (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

74-6F-88 (hex) zte corporation
746F88 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057

CN

74-71-8B
(hex) Apple, Inc.
74718B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

70-31-7F (hex) Apple, Inc.
70317F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A4-CF-99 (hex) Apple, Inc.
A4CF99 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

4C-2E-B4 (hex) Apple, Inc.
4C2EB4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D0-98-9C (hex) ConMet
D0989C (base 16) ConMet
5701 SE Columbia Way
Vancouver WA 98661
US

34-AD-61 (hex) CELESTICA INC.
34AD61 (base 16) CELESTICA INC.
1900-5140 Yonge Street PO Box 42
Toronto Ontario M2N 6L7
CA

2C-55-3C (hex) Vecima Networks Inc.
2C553C (base 16) Vecima Networks Inc.
150 Cardinal Place
Saskatoon SK S7L 6H7
CA

54-43-B2 (hex) Espressif Inc.
5443B2 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area

Shanghai
Shanghai 201203
CN

B4-19-74 (hex) Apple, Inc.
B41974 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

60-95-BD (hex) Apple, Inc.
6095BD (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

EC-11-27 (hex) Texas Instruments
EC1127 (base 16) Texas Instruments
12500 TI BLVD
Dallas 75243
US

04-E8-92 (hex) SHENNAN CIRCUITS CO.,LTD
04E892 (base 16) SHENNAN CIRCUITS CO.,LTD
Gao Qiao Industrial Park East,Long Gang District,
Shenzhen Guangdong 518117
CN

BC-E9-E2 (hex) Brocade Communications Systems LLC
BCE9E2 (base 16) Brocade Communications Systems LLC
1320 Ridder Park Dr
San Jose CA 95131
US

18-A5-9C (hex) IEEE Registration Authority
18A59C (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

10-96-1A (hex) CHIPSEA TECHNOLOGIES (SHENZHEN) CORP.
10961A (base 16) CHIPSEA TECHNOLOGIES (SHENZHEN) CORP.
9F,BLOCK
A,GARDEN CITY DIGITAL BUILDING,NO.1079 NANHAI ROAD,NANSHAN DISTRICT
SHEN ZHEN GUANG DONG 518000
CN

AC-BF-71 (hex) Bose Corporation

ACBF71 (base 16) Bose Corporation
The Mountain
Framingham MA 01701-9168
US

AC-D3-1D (hex) Cisco Meraki
ACD31D (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco 94158
US

74-56-3C (hex) GIGA-BYTE TECHNOLOGY CO.,LTD.
74563C (base 16) GIGA-BYTE TECHNOLOGY CO.,LTD.
Pin-Jen City, Taoyuan, Taiwan, R.O.C.
Pin-Jen Taoyuan 324
TW

EC-55-1C (hex) HUAWEI TECHNOLOGIES CO.,LTD
EC551C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B4-83-51 (hex) Intel Corporate
B48351 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

BC-F4-D4 (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
BCF4D4 (base 16) CLOUD NETWORK TECHNOLOGY
SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

CC-F3-05 (hex) SHENZHEN TIAN XING CHUANG ZHAN ELECTRONIC CO.,LTD
CCF305 (base 16) SHENZHEN TIAN XING CHUANG ZHAN ELECTRONIC CO.,LTD
Second floor, Building A, FengHangAvenue, Hangcheng Street, Bao'an District
Shenzhen Guangdong 518126
CN

04-B9-7D (hex) AiVIS Co., Itd.
04B97D (base 16) AiVIS Co., Itd.
112, Dumipo-ro, Jung-gu
Incheon Incheon 22394
KR

C4-C0-63 (hex) New H3C Technologies Co., Ltd
C4C063 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

E0-79-8D (hex) Silicon Laboratories
E0798D (base 16) Silicon Laboratories
400 West Cesar Chavez Street
Austin TX 78701
US

34-BD-20 (hex) Hangzhou Hikrobot Technology Co., Ltd.
34BD20 (base 16) Hangzhou Hikrobot Technology Co., Ltd.
Room
304, Unit B, Building 2, 399 Danfeng Road, Binjiang District, Hangzhou, Zhejiang
Hangzhou 310052
CN

64-C2-69 (hex) eero inc.
64C269 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

AC-2A-A1 (hex) Cisco Systems, Inc
AC2AA1 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

F8-E9-4F (hex) Cisco Systems, Inc
F8E94F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

30-89-4A (hex) Intel Corporate
30894A (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

D8-9C-8E (hex) Comcast Cable Corporation
D89C8E (base 16) Comcast Cable Corporation
1800 Arch Street
Philadelphia PA 19103
US

00-25-CA (hex) Laird Connectivity
0025CA (base 16) Laird Connectivity
W66 N220 Commerce Court
Cedarburg WI 53012
US

E0-6C-C5 (hex) Huawei Device Co., Ltd.
E06CC5 (base 16) Huawei Device
Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

30-96-3B (hex) Huawei Device Co., Ltd.
30963B (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

8C-6B-DB (hex) Huawei Device Co., Ltd.
8C6BDB (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

10-DA-49 (hex) Huawei Device Co., Ltd.
10DA49 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

60-18-3A (hex) Huawei Device Co., Ltd.
60183A (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

18-C0-07 (hex) Huawei Device Co., Ltd.
18C007 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

98-59-7A (hex) Intel Corporate
98597A
(base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3

Kulim Kedah 09000
MY

64-49-7D (hex) Intel Corporate
64497D (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

B8-D6-1A (hex) Espressif Inc.
B8D61A (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

BC-6E-6D (hex) EM Microelectronic
BC6E6D (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

00-D4-9E (hex) Intel Corporate
00D49E (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

34-92-C2 (hex) Square Route Co., Ltd.
3492C2 (base 16) Square Route Co., Ltd.
Area-Shinagawa 13F, 1-9-36, Konan, Minato-ku
Tokyo Tokyo 108-0075
JP

8C-17-59 (hex) Intel Corporate
8C1759 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

B8-3F-D2 (hex) Mellanox
Technologies, Inc.
B83FD2 (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway, Suite 100
Sunnyvale CA 94085
US

30-CB-36 (hex) Belden Singapore Pte. Ltd.
30CB36 (base 16) Belden Singapore Pte. Ltd.

151 Lorong Chuan #05-01 New Tech Park Singapore
Singapore 556741
SG

30-BB-7D (hex) OnePlus Technology (Shenzhen) Co., Ltd
30BB7D (base 16) OnePlus Technology (Shenzhen) Co., Ltd
18C02, 18C03, 18C04 ,18C05,TAIRAN BUILDING,
Shenzhen Guangdong 518000
CN

6C-67-EF (hex) HUAWEI TECHNOLOGIES CO.,LTD
6C67EF (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

88-69-3D (hex) HUAWEI TECHNOLOGIES CO.,LTD
88693D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-99-1D (hex) HUAWEI TECHNOLOGIES CO.,LTD
00991D (base 16) HUAWEI TECHNOLOGIES
CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

28-3E-0C (hex) Preferred Robotics, Inc.
283E0C (base 16) Preferred Robotics, Inc.
Otemachi Bldg. 1-6-1 Otemachi
Chiyoda-ku Tokyo 100-0004
JP

04-BC-9F (hex) Calix Inc.
04BC9F (base 16) Calix Inc.
2777 Orchard Pkwy
San Jose CA 95131
US

6C-A4-01 (hex) essensys plc
6CA401 (base 16) essensys plc
Aldgate Tower, Leman Street
London E1 8FA
GB

B0-4A-6A (hex) Samsung Electronics Co.,Ltd

B04A6A (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A8-79-8D (hex) Samsung Electronics Co.,Ltd
A8798D (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

5C-ED-F4 (hex) Samsung Electronics Co.,Ltd
5CEDF4 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

28-3D-C2 (hex) Samsung
Electronics Co.,Ltd
283DC2 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B4-28-75 (hex) Futecho Solutions Private Limited
B42875 (base 16) Futecho Solutions Private Limited
504, Commercial Complex, Savitri Cinema Compound, GK2
New Delhi 110048
IN

30-23-64 (hex) Nokia Shanghai Bell Co., Ltd.
302364 (base 16) Nokia Shanghai Bell Co., Ltd.
No.388 Ning Qiao Road,Jin Qiao Pudong Shanghai
Shanghai 201206
CN

0C-1C-1A (hex) eero inc.
0C1C1A (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

48-51-D0 (hex) Jiangsu Xinsheng Intelligent Technology Co., Ltd.
4851D0 (base 16) Jiangsu Xinsheng Intelligent Technology Co., Ltd.
18th Floor,Inno laser Building,18-69 Changwu Mid Road,Changzhou Science & Education Town,Wujin District,Changzhou,Jiangsu213000,China
Changzhou Jiangsu 213000
CN

DC-9A-7D (hex) HISENSE VISUAL TECHNOLOGY CO.,LTD
DC9A7D
(base 16) HISENSE VISUAL TECHNOLOGY CO.,LTD
Qianwangang Road 218
Qingdao Shandong 266510
CN

84-F1-D0 (hex) EHOOME IOT PRIVATE LIMITED
84F1D0 (base 16) EHOOME IOT PRIVATE LIMITED
A-13, SECTOR-83,
NOIDA UTTAR PRADESH 201301
IN

20-8B-D1 (hex) NXP Semiconductor (Tianjin) LTD.
208BD1 (base 16) NXP Semiconductor (Tianjin) LTD.
No.15 Xinghua Avenue, Xiqing Economic Development Area
Tianjin 300385
CN

2C-07-F6 (hex) SKG Health Technologies Co., Ltd.
2C07F6 (base 16) SKG Health Technologies Co., Ltd.
23A Floor,Building 3,Zhongke R&D Park,No.009,Gaoxin South 1st Road, High-tech Zone Community,Yuehai street, Nanshan District,Shenzhen City,Guangdong Province,P.R.China
Shenzhen 518000
CN

38-68-BE (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
3868BE (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan
611330
CN

28-A5-3F (hex) vivo Mobile Communication Co., Ltd.
28A53F (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

8C-49-B6 (hex) vivo Mobile Communication Co., Ltd.
8C49B6 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

80-77-A4 (hex) TECNO MOBILE LIMITED
8077A4 (base 16) TECNO MOBILE LIMITED

ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

7C-6C-F0 (hex) Shenzhen TINNO Mobile Technology Corp.
7C6CF0 (base 16) Shenzhen TINNO Mobile Technology Corp.
4/F, H-3 Building, Qiao Cheng Eastern Industrial Park, Overseas Chinese Town, Shenzhen
Shenzhen guangdong 518053
CN

00-C3-0A (hex) Xiaomi Communications Co Ltd
00C30A (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building
6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

88-52-EB (hex) Xiaomi Communications Co Ltd
8852EB (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

08-57-FB (hex) Amazon Technologies Inc.
0857FB (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

00-D0-FC (hex) GRANITE MICROSYSTEMS
00D0FC (base 16) GRANITE MICROSYSTEMS
10202 N. ENTERPRISE DRIVE
MEQUON WI 53092
US

B0-DE-28 (hex) Apple, Inc.
B0DE28 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

7C-13-1D (hex) SERNET (SUZHOU) TECHNOLOGIES CORPORATION
7C131D (base 16) SERNET (SUZHOU) TECHNOLOGIES CORPORATION
NO.8 Tangzhuang Road,Suzhou Industrial Park,Su ZhouCity,JiangSu Province,China
Suzhou 215021
CN

D4-9F-DD (hex) Huawei Device Co., Ltd.
D49FDD (base 16) Huawei Device Co., Ltd.
No.2
of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

00-D8-A2 (hex) Huawei Device Co., Ltd.
00D8A2 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

DC-6B-1B (hex) Huawei Device Co., Ltd.
DC6B1B (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

D0-6D-C9 (hex) Sagemcom Broadband SAS
D06DC9 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

DC-15-2D (hex) China Mobile Group Device Co.,Ltd.
DC152D (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

98-CA-20 (hex) Shanghai SIMCOM Ltd.
98CA20 (base 16) Shanghai SIMCOM Ltd.
Building A, SIM Technology Building, No.633, Jinzhong Road, Changning District
Shanghai 200335
CN

D8-50-A1 (hex) Hunan
Danuo Technology Co.,LTD
D850A1 (base 16) Hunan Danuo Technology Co.,LTD
No. 89, Guoqing South Road, Beihu District, Chenzhou City, Hunan Province (in Xiangnan International Logistics Park)
Hunan 423000
CN

44-1A-AC (hex) Elektrik Uretim AS EOS
441AAC (base 16) Elektrik Uretim AS EOS
Mustafa Kemal Mahallesi No:166 Çankaya

Ankara 06520
TR

34-28-40 (hex) Apple, Inc.
342840 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

18-E7-B0 (hex) Apple, Inc.
18E7B0 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

50-57-8A (hex) Apple, Inc.
50578A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D8-33-B7 (hex) Sagemcom Broadband SAS
D833B7 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

D4-FB-8E (hex) Apple, Inc.
D4FB8E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino
CA 95014
US

2C-78-4C (hex) Iton Technology Corp.
2C784C (base 16) Iton Technology Corp.
Room 1302, Block A, Building 4, Tianan Cyber Park, Huangge Road,Longgang District
Shenzhen Guangdong 518116
CN

48-87-59 (hex) Xiaomi Communications Co Ltd
488759 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

AC-1E-9E (hex) Xiaomi Communications Co Ltd
AC1E9E (base 16) Xiaomi Communications Co Ltd

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

D0-1B-1F (hex) OHSUNG
D01B1F (base 16) OHSUNG
335-4,SANHODAERO,GUMI,GYEONG BUK,KOREA
GUMI GYEONG BUK 730-030
KR

E0-AE-A2 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E0AEA2 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

44-45-6F (hex) SHENZHEN ONEGA
TECHNOLOGY CO.,LTD
44456F (base 16) SHENZHEN ONEGA TECHNOLOGY CO.,LTD
2 / F, building 3, zone B, Xusheng Xifa, Bao'an District, Shenzhen
Shenzhen Guangdong 518126
CN

E8-FD-F8 (hex) Shanghai High-Flying Electronics Technology Co., Ltd
E8FDF8 (base 16) Shanghai High-Flying Electronics Technology Co., Ltd
Room 1002,#1Building,No.3000 Longdong Avenue,Pudong
Shanghai Shanghai 201202
CN

C0-18-03 (hex) HP Inc.
C01803 (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

04-CF-4B (hex) Intel Corporate
04CF4B (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

FC-38-C4 (hex) China Grand Communications Co.,Ltd.
FC38C4 (base 16) China Grand Communications Co.,Ltd.
2712, Block A, Phase II, Qianhai Economic and Trade Center, China Merchants Group, No. 3041, Yihai Avenue, Nanshan street, Shenzhen Hong Kong cooperation zone, Shenzhen
Shenzhen Guangdong 518066
CN

5C-F5-1A
(hex) Zhejiang Dahua Technology Co., Ltd.
5CF51A (base 16) Zhejiang Dahua Technology Co., Ltd.
No.1199,Waterfront Road
Hangzhou Zhejiang 310053
CN

10-1D-51 (hex) 8Mesh Networks Limited
101D51 (base 16) 8Mesh Networks Limited
Unit 607, 6/F, Yen Sheng Centre,
64 Hoi Yuen Road Kwun Tong 000
HK

34-97-6F (hex) Rootech, Inc.
34976F (base 16) Rootech, Inc.
102-611 Digital Empire2, 88, Sin won-ro
Yeongtong-gu, Suwon Gyeonggi-do 16681
KR

6C-6C-0F (hex) HUAWEI TECHNOLOGIES CO.,LTD
6C6C0F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

CC-8C-BF (hex) Tuya Smart Inc.
CC8CBF (base 16) Tuya Smart Inc.
160 Greentree Drive, Suite 101
Dover DE 19904
US

F8-97-A9 (hex) Ericsson AB
F897A9 (base 16) Ericsson AB
Torshamnsgatan 36
Stockholm SE-164 80
SE

AC-93-C4 (hex) GD Midea Air-Conditioning Equipment
Co.,Ltd.
AC93C4 (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
Midea Global Innovation Center,Beijiao Town,Shunde
Foshan Guangdong 528311
CN

00-06-88 (hex) Telways Communication Co., Ltd.
000688 (base 16) Telways Communication Co., Ltd.
3F, No. 53, Lane 258
Taipei 114

TW

EC-9B-2D (hex) China Mobile Group Device Co.,Ltd.
EC9B2D (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

A8-13-06 (hex) vivo Mobile Communication Co., Ltd.
A81306 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

1C-34-F1 (hex) Silicon Laboratories
1C34F1 (base 16) Silicon Laboratories
400 West Cesar Chavez Street
Austin TX 78701
US

CC-7D-5B (hex) Telink Semiconductor (Shanghai) Co., Ltd.
CC7D5B (base 16) Telink Semiconductor (Shanghai) Co., Ltd.
No. 1500 Zuchongzhi Rd, Building
#3
Shanghai 201203
CN

74-95-52 (hex) Xuzhou WIKA Electronics Control Technology Co., Ltd.
749552 (base 16) Xuzhou WIKA Electronics Control Technology Co., Ltd.
No.11 BaoLianSi Road Xuzhou Economic Development Zone
Xuzhou JiangSu,PRC 221001
CN

44-EA-30 (hex) Samsung Electronics Co.,Ltd
44EA30 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

84-5F-04 (hex) Samsung Electronics Co.,Ltd
845F04 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

9C-2F-9D (hex) Liteon Technology Corporation
9C2F9D (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road

New Taipei City Taiwan 23585
TW

A4-F3-3B (hex) zte corporation
A4F33B (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

30-E7-BC (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
30E7BC
(base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

4C-FE-2E (hex) DongGuan Siyoto Electronics Co., Ltd
4CFE2E (base 16) DongGuan Siyoto Electronics Co., Ltd
Hecheng Industrial District, QiaoTou Town
DongGuan City Guangdong 523520
CN

0C-4E-C0 (hex) Maxlinear Inc
0C4EC0 (base 16) Maxlinear Inc
1060 Rincon Circle
San Jose CA 95131
US

90-11-95 (hex) Amazon Technologies Inc.
901195 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

7C-B5-66 (hex) Intel Corporate
7CB566 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

40-32-9D (hex) Union Image Co.,Ltd
40329D (base 16) Union Image Co.,Ltd
Building A2, Ding Bao Hong Green High Garden, Shiyan Street, Bao 'an District
SHENZHEN GuangDong 518108
CN

50-A0-30 (hex) IEEE Registration Authority
50A030

(base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

6C-4B-B4 (hex) HUMAX Co., Ltd.
6C4BB4 (base 16) HUMAX Co., Ltd.
HUMAX Village, 216, Hwangsaeul-ro, Bu
Seongnam-si Gyeonggi-do 463-875
KR

58-9B-F7 (hex) Hefei Radio Communication Technology Co., Ltd
589BF7 (base 16) Hefei Radio Communication Technology Co., Ltd
No.108, YinXing Road, High-tech Development Zone
Hefei Anhui 230088
CN

00-0E-24 (hex) Huwell Technology Inc.
000E24 (base 16) Huwell Technology Inc.
1F 82-21, Majin Building
Seoul 135-010
KR

4C-77-13 (hex) Renesas Electronics (Penang) Sdn. Bhd.
4C7713 (base 16) Renesas Electronics (Penang) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

D8-AA-59 (hex) Tonly Technology Co. Ltd
D8AA59 (base 16) Tonly Technology Co. Ltd
Section 37, Zhongkai Hi-Tech Development Zone
Huizhou Guangdong 516006
CN

64-CF-13
(hex) Weigao Nikkiso(Weihai)Dialysis Equipment Co.,Ltd
64CF13 (base 16) Weigao Nikkiso(Weihai)Dialysis Equipment Co.,Ltd
No.20,Xingshan Road,Wego Industrial Zone,Chucun,Weihai,Shandong,China
Weihai Shandong 264209
CN

50-E9-DF (hex) Quectel Wireless Solutions Co.,Ltd.
50E9DF (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

E8-FA-23 (hex) Huawei Device Co., Ltd.
E8FA23 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

EC-3A-52 (hex) Huawei Device Co., Ltd.
EC3A52 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

44-1B-88 (hex) Apple, Inc.
441B88 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

80-04-5F (hex) Apple, Inc.
80045F (base 16) Apple, Inc.
1 Infinite
Loop
Cupertino CA 95014
US

9C-3E-53 (hex) Apple, Inc.
9C3E53 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C8-89-F3 (hex) Apple, Inc.
C889F3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

10-B9-C4 (hex) Apple, Inc.
10B9C4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

60-10-9E (hex) HUAWEI TECHNOLOGIES CO.,LTD
60109E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

48-02-86 (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
480286 (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

94-DE-B8 (hex) Silicon Laboratories
94DEB8 (base 16) Silicon Laboratories
400 West Cesar Chavez Street
Austin TX 78701
US

04-0D-84 (hex) Silicon
Laboratories
040D84 (base 16) Silicon Laboratories
400 West Cesar Chavez Street
Austin TX 78701
US

4C-19-5D (hex) Sagemcom Broadband SAS
4C195D (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

9C-74-03 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
9C7403 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

3C-EC-DE (hex) FUJIAN STAR-NET COMMUNICATION CO.,LTD
3CECDE (base 16) FUJIAN STAR-NET COMMUNICATION CO.,LTD
19-22# Building, Star-net Science Plaza, Juyuanzhou,
FUZHOU FUJIAN 350002
CN

9C-6B-00 (hex) ASRock Incorporation
9C6B00 (base 16) ASRock Incorporation
2F.,No.37, Sec.2, Jhongyang S.Rd., Beitou Distric,
Taipei 112
TW

54-F8-2A (hex) u-blox AG
54F82A (base 16) u-blox AG
Zuercherstrasse 68
Thalwil 8800

CH

D4-35-38 (hex) Beijing
Xiaomi Mobile Software Co., Ltd
D43538 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

10-CE-02 (hex) Amazon Technologies Inc.
10CE02 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

98-67-2E (hex) Skullcandy
98672E (base 16) Skullcandy
6301 N. LANDMARK DRIVE
Park City 84098
US

A8-3A-48 (hex) Ubiqcom India Pvt Ltd
A83A48 (base 16) Ubiqcom India Pvt Ltd
First Floor, D-92, Sector-63
Noida Uttar Pradesh 201301
IN

C8-5A-CF (hex) HP Inc.
C85ACF (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

FC-29-E3 (hex) Infinix mobility limited
FC29E3 (base 16) Infinix mobility limited
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
HongKong HongKong 999077
HK

9C-1C-6D (hex) HEFEI DATANG STORAGE
TECHNOLOGY CO.,LTD
9C1C6D (base 16) HEFEI DATANG STORAGE TECHNOLOGY CO.,LTD
7F BLOCK C J2 BUILDING INNOVATION PARK HIGH TECH DISTRICT
HEFEI AN HUI PROVINCE PR CHINA 220038
CN

64-1A-BA (hex) Dryad Networks GmbH

641ABA (base 16) Dryad Networks GmbH
Eisenbahnstr. 37
Eberswalde Brandenburg 16225
DE

34-94-54 (hex) Espressif Inc.
349454 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

00-13-DC (hex) IBTEK INC.
0013DC (base 16) IBTEK INC.
16F, 30, Pei-Ping East Rd.,
Taipei 100
TW

D8-4A-2B (hex) zte corporation
D84A2B (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

D0-F9-9B (hex) zte corporation
D0F99B (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

F4-13-99 (hex) Aerospace
new generation communications Co.,Ltd
F41399 (base 16) Aerospace new generation communications Co.,Ltd
Building 3, No. 36 Xiyong Avenue
CHONG QING 401332
CN

A4-43-8C (hex) ARRIS Group, Inc.
A4438C (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

94-A9-A8 (hex) Texas Instruments
94A9A8 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

48-B4-23 (hex) Amazon Technologies Inc.
48B423 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

70-70-AA (hex) Amazon Technologies Inc.
7070AA (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

64-2F-C7 (hex) New H3C Technologies Co., Ltd
642FC7 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

60-26-AA (hex) Cisco Systems, Inc
6026AA (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose
CA 94568
US

5C-31-92 (hex) Cisco Systems, Inc
5C3192 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

88-C2-27 (hex) HUAWEI TECHNOLOGIES CO.,LTD
88C227 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

80-54-D9 (hex) HUAWEI TECHNOLOGIES CO.,LTD
8054D9 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

9C-85-66 (hex) Wingtech Mobile Communications Co.,Ltd.
9C8566 (base 16) Wingtech Mobile Communications Co.,Ltd.
1F-3F,Yinfeng Mansion,No.5097 of Luosha Road,Luohu District
Shenzhen 518011
CN

B0-33-66 (hex) vivo Mobile Communication Co., Ltd.
B03366 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

7C-C2-25 (hex) Samsung Electronics Co.,Ltd
7CC225 (base 16) Samsung
Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D4-13-F8 (hex) Peplink International Ltd.
D413F8 (base 16) Peplink International Ltd.
A5, 5/F, HK Spinners Industrial Building, Phase 6, 481 Castle Peak Road
Cheung Sha Wan Kowloon 0
HK

00-11-17 (hex) CESNET
001117 (base 16) CESNET
Zikova 4
Praha 6 160 00
CZ

9C-EC-61 (hex) Huawei Device Co., Ltd.
9CEC61 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

74-70-69 (hex) Huawei Device Co., Ltd.
747069 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

14-FB-70 (hex) Huawei Device Co., Ltd.
14FB70 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

84-D3-D5 (hex) Huawei Device Co., Ltd.
84D3D5 (base 16) Huawei Device Co.,
Ltd.
No.2 of Xincheng Road, Songshan Lake Zone

Dongguan Guangdong 523808
CN

9C-00-D3 (hex) SHENZHEN IK WORLD Technology Co., Ltd
9C00D3 (base 16) SHENZHEN IK WORLD Technology Co., Ltd
Aike intelligent industrial park, 167 gongchang Road, Xinhu street, Guangming New District,
SHENZHEN GUANGDONG 518000
CN

28-2D-06 (hex) AMPAK Technology,Inc.
282D06 (base 16) AMPAK Technology,Inc.
3F, No.15-1 Zhonghua Road, Hsinchu Industrail Park, Hukou,
Hsinchu Hsinchu,Taiwan R.O.C. 30352
TW

20-2B-20 (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
202B20 (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

A0-A3-09 (hex) Apple, Inc.
A0A309 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

5C-50-D9 (hex) Apple, Inc.
5C50D9 (base 16) Apple, Inc.
1 Infinite
Loop
Cupertino CA 95014
US

E8-CA-C8 (hex) Hui Zhou Gaoshengda Technology Co.,LTD
E8CAC8 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.75,Zhongkai High-Tech Development District,Huizhou
Hui Zhou Guangdong 516006
CN

D4-19-F6 (hex) NXP Semiconductor (Tianjin) LTD.
D419F6 (base 16) NXP Semiconductor (Tianjin) LTD.
No.15 Xinghua Avenue, Xiqing Economic Development Area
Tianjin 300385
CN

64-BF-6B (hex) HUAWEI TECHNOLOGIES CO.,LTD
64BF6B (base 16) HUAWEI TECHNOLOGIES CO.,LTD

No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

30-49-9E (hex) HUAWEI TECHNOLOGIES CO.,LTD
30499E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

88-4D-7C (hex) Apple, Inc.
884D7C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A8-FE-9D (hex) Apple, Inc.
A8FE9D (base 16) Apple,
Inc.
1 Infinite Loop
Cupertino CA 95014
US

DC-97-3A (hex) Verana Networks
DC973A (base 16) Verana Networks
100 Apollo Drive, Suite 201
Chelmsford MA 01824
US

FC-76-92 (hex) Semptian Co.,Ltd.
FC7692 (base 16) Semptian Co.,Ltd.
Floor 19, Block 1A, Phase 1, International Innovation Valley, Xili Community, Nanshan District
Shenzhen Guangdong 518052
CN

FC-AF-BE (hex) TireCheck GmbH
FCAFBE (base 16) TireCheck GmbH
Schmelzofenvorstadt 33
Heidenheim/Brenz Baden-Württemberg 89520
DE

18-48-BE (hex) Amazon Technologies Inc.
1848BE (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

20-20-27 (hex) Shenzhen Sundray Technologies Company Limited

202027 (base 16) Shenzhen Sundray Technologies Company Limited
5th Floor, Block A4, Nanshan ipark,NO.1001 Xue Yuan Road, Nanshan District, Shenzhen 518055, P.R. China
Shenzhen Guangdong 518057
CN

68-67-25
(hex) Espressif Inc.
686725 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

88-6E-E1 (hex) Erbe Elektromedizin GmbH
886EE1 (base 16) Erbe Elektromedizin GmbH
Waldhoernlestrasse 17
Tuebingen Baden-Wuerttemberg 72072
DE

C4-75-AB (hex) Intel Corporate
C475AB (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C8-41-8A (hex) Samsung Electronics.,LTD
C8418A (base 16) Samsung Electronics.,LTD
129, Samsung-ro, Yeongtong-gu
Suwon Gyeonggi-Do 443-742
KR

54-7D-40 (hex) Powervision Tech Inc.
547D40 (base 16) Powervision Tech Inc.
Zone E,Ocean Venture Valley, No.40, Yangguang Rd, Nanhai new District
Weihai Shandong 264200
CN

C0-D7-AA (hex) Arcadyan Corporation
C0D7AA (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

AC-AC-E2 (hex) CHANGHONG (HONGKONG)
TRADING LIMITED
ACACE2 (base 16) CHANGHONG (HONGKONG) TRADING LIMITED
Unit 1412, 14/F., West Tower, Shun Tak Centre, 168-200 Connaught Road Central, HongKong
HONG KONG HONG KONG 999077
HK

80-B7-45 (hex) The Silk Technologies ILC LTD
80B745 (base 16) The Silk Technologies ILC LTD
Haozma 1
Yoqneam 20692
IL

F8-9E-94 (hex) Intel Corporate
F89E94 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C4-03-A8 (hex) Intel Corporate
C403A8 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

0C-B0-88 (hex) AITelecom
0CB088 (base 16) AITelecom
1018,hanshin IT Tower Digital-ro 272 Guro-gu
seoul 08389
KR

20-66-FD (hex) CONSTELL8 NV
2066FD (base 16) CONSTELL8 NV
Sint-Bernardse steenweg 72
Hemiksem 2620
BE

64-42-12 (hex) Shenzhen Water World Information Co.,Ltd.
644212 (base 16) Shenzhen Water World Information
Co.,Ltd.
Room 201, No.26, Yifenghua Innovation Industrial Park, Xinshi Community, Dalang Subdistrict, Longhua District.
Shenzhen Guangdong 518000
CN

4C-AB-F8 (hex) ASKEY COMPUTER CORP
4CABF8 (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585
TW

8C-56-46 (hex) LG Electronics
8C5646 (base 16) LG Electronics
222 LG-ro, Jinwi-Myeon
Pyeongtaek-si Gyeonggi-do 17709

KR

CC-71-90 (hex) VIETNAM POST AND TELECOMMUNICATION INDUSTRY TECHNOLOGY JOINT STOCK COMPANY
CC7190 (base 16) VIETNAM POST AND TELECOMMUNICATION INDUSTRY TECHNOLOGY JOINT STOCK COMPANY
HIGH TECH INDUSTRIAL ZONE I,HOA LAC, HIGH TECH PARK, HA BANG, THACH THAT
HANOI Hanoi 100000
VN

48-BD-4A (hex) HUAWEI TECHNOLOGIES CO.,LTD
48BD4A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A8-D4-E0 (hex) HUAWEI TECHNOLOGIES CO.,LTD
A8D4E0
(base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A0-40-6F (hex) HUAWEI TECHNOLOGIES CO.,LTD
A0406F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-4F-1A (hex) HUAWEI TECHNOLOGIES CO.,LTD
004F1A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

74-33-A6 (hex) Shenzhen SuperElectron Technology Co.,Ltd.
7433A6 (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen Guangdong 518000
CN

2C-0D-A7 (hex) Intel Corporate
2C0DA7 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

D4-63-DE (hex) vivo Mobile Communication Co., Ltd.

D463DE (base
16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

A8-5B-F7 (hex) Aruba, a Hewlett Packard Enterprise Company
A85BF7 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

D4-B7-D0 (hex) Ciena Corporation
D4B7D0 (base 16) Ciena Corporation
7035 Ridge Road
Hanover MD 21076
US

14-00-E9 (hex) Mitel Networks Corporation
1400E9 (base 16) Mitel Networks Corporation
4000 Innovation Drive
Kanata Ontario K2K3K1
CA

0C-90-43 (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
0C9043 (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

54-1F-8D (hex) zte corporation
541F8D (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

2C-F1-BB
(hex) zte corporation
2CF1BB (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

BC-2C-E6 (hex) Cisco Systems, Inc
BC2CE6 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

CC-ED-4D (hex) Cisco Systems, Inc
CCED4D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

18-A9-A6 (hex) Nebra Ltd
18A9A6 (base 16) Nebra Ltd
Unit 4, Bells Yew Green Business Court
Bells Yew Green East Sussex TN3 9BJ
GB

B0-F7-C4 (hex) Amazon Technologies Inc.
B0F7C4 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

4C-8D-53 (hex) HUAWEI TECHNOLOGIES CO.,LTD
4C8D53 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

6C-0F-0B (hex) China Mobile Group Device Co.,Ltd.
6C0F0B (base 16) China
Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

DC-2C-6E (hex) Routerboard.com
DC2C6E (base 16) Routerboard.com
Mikrotikls SIA
Riga Riga LV1009
LV

C4-BD-E5 (hex) Intel Corporate
C4BDE5 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

34-53-D2 (hex) Sagemcom Broadband SAS
3453D2 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848

FR

34-29-EF (hex) Qingdao Haier Technology Co.,Ltd
3429EF (base 16) Qingdao Haier Technology Co.,Ltd
A01, No.1, Haier Road, Laoshan District,
Qingdao Shan dong 266000
CN

A0-B5-3C (hex) Technicolor Delivery Technologies Belgium NV
A0B53C (base 16) Technicolor Delivery Technologies Belgium NV
Prins Boudewijnlaan 47
Edegem - Belgium B-2650
BE

54-1D-61 (hex) YEESTOR Microelectronics Co., Ltd
541D61 (base 16) YEESTOR
Microelectronics Co., Ltd
7th Floor, Block A1, Digital Technology Park, Gaoxin 7th Road South,
Shenzhen 518057
CN

70-09-71 (hex) Samsung Electronics Co.,Ltd
700971 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

D0-1B-49 (hex) Samsung Electronics Co.,Ltd
D01B49 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

FC-5F-49 (hex) Zhejiang Dahua Technology Co., Ltd.
FC5F49 (base 16) Zhejiang Dahua Technology Co., Ltd.
No.1199,Waterfront Road
Hangzhou Zhejiang 310053
CN

30-35-C5 (hex) Huawei Device Co., Ltd.
3035C5 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

18-EF-3A (hex) Sichuan AI-Link Technology Co., Ltd.
18EF3A (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou, Industrial Park

Mianyang Sichuan 622650
CN

A0-FF-22
(hex) SHENZHEN APICAL TECHNOLOGY CO., LTD
A0FF22 (base 16) SHENZHEN APICAL TECHNOLOGY CO., LTD
9/F.B Building,Tsinghua Unis Infoport ,LangShan Road,North District,Hi-tech Industrial Park,Nanshan
Shenzhen 518000
CN

F8-20-A9 (hex) Huawei Device Co., Ltd.
F820A9 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

64-9E-31 (hex) Beijing Xiaomi Mobile Software Co., Ltd
649E31 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

6C-B0-FD (hex) Shenzhen Xinghai Iot Technology Co.,Ltd
6CB0FD (base 16) Shenzhen Xinghai Iot Technology Co.,Ltd
South 8th Road, science and Technology Park, Nanshan District
Shenzhen 518063
CN

24-CD-8D (hex) Murata Manufacturing Co., Ltd.
24CD8D (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi
Kyoto 617-8555
JP

5C-02-14 (hex) Beijing Xiaomi Mobile Software Co., Ltd
5C0214 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

E4-28-05 (hex) Pivotal Optics
E42805 (base 16) Pivotal Optics
125 Wolf Road Suite 315
Albany NY 12205
US

38-1F-8D (hex) Tuya Smart Inc.

381F8D (base 16) Tuya Smart Inc.
160 Greentree Drive, Suite 101
Dover DE 19904
US

84-A9-38 (hex) LCFC(HeFei) Electronics Technology co., ltd
84A938 (base 16) LCFC(HeFei) Electronics Technology co., ltd
No.3188,YunGu Road?Hefei Economic and Technological Development Area
HEFEI ANHUI 230601
CN

20-8C-47 (hex) Tenstorrent Inc
208C47 (base 16) Tenstorrent Inc
150 Ferrand Dr #901
Toronto ON M3C 3E5
CA

68-15-D3 (hex) Zaklady Elektroniki i Mechaniki Precyzyjnej R&G S.A.
6815D3 (base 16) Zaklady
Elektroniki i Mechaniki Precyzyjnej R&G S.A.
ul. Traugutta 7
Mielec 39-300
PL

00-80-E7 (hex) Leonardo UK Ltd
0080E7 (base 16) Leonardo UK Ltd
Christopher Martin Road
Basildon Essex SS14 3EL
GB

3C-9F-C3 (hex) Beijing Sinead Technology Co., Ltd.
3C9FC3 (base 16) Beijing Sinead Technology Co., Ltd.
Room 504,Block A, New material Building, Yongfeng industrial, Haiding District, Beijing.China
Beijing Beijing 100094
CN

00-B0-EC (hex) EACEM
00B0EC (base 16) EACEM
Avenue Louise 140, Bte 6
B-1050 BRUSSELS
BE

6C-D3-EE (hex) ZIMI CORPORATION
6CD3EE (base 16) ZIMI CORPORATION
Room A913, 159 Chengjiang Road
Jiangyin City Jiangsu Province 214400
CN

04-CD-15 (hex) Silicon Laboratories
04CD15 (base 16) Silicon Laboratories
400 West Cesar Chavez Street
Austin 78701
US

78-5E-A2 (hex) Sunitec Enterprise Co.,Ltd
785EA2 (base 16) Sunitec Enterprise Co.,Ltd
3F.,No.98-1,Mincyuan
Rd.Sindian City
Taipei County 231 231141
CN

B0-BE-83 (hex) Apple, Inc.
B0BE83 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

10-32-1D (hex) HUAWEI TECHNOLOGIES CO.,LTD
10321D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E4-93-6A (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
E4936A (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

48-77-BD (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
4877BD (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

F8-56-C3 (hex) zte corporation
F856C3 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

38-FD-F8 (hex) Cisco
Systems, Inc
38FDF8 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568

US

DC-F4-CA (hex) Apple, Inc.
DCF4CA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

7C-FC-16 (hex) Apple, Inc.
7CFC16 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

88-B9-45 (hex) Apple, Inc.
88B945 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

18-E1-DE (hex) Chengdu ChipIntelli Technology Co., Ltd
18E1DE (base 16) Chengdu ChipIntelli Technology Co., Ltd
No. 106, 1st floor, building 6, No. 1480, North Tianfu Avenue, Chengdu high tech Zone
Chengdu Sichuan 610041
CN

8C-F6-81 (hex) Silicon Laboratories
8CF681 (base 16) Silicon Laboratories
400 West Cesar Chavez Street
Austin TX 78701
US

7C-66-EF (hex) Hon Hai Precision IND.CO.,LTD
7C66EF (base 16) Hon Hai Precision IND.CO.,LTD
No. 66 Chung Shan Road TU-Cheng Industrial
district TAIPEI TAIWAN
TAIPEI TAIWAN 33859
CN

44-17-93 (hex) Espressif Inc.
441793 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

00-A3-88 (hex) SKY UK LIMITED
00A388 (base 16) SKY UK LIMITED
130 Kings Road

Brentwood Essex 08854
GB

7C-C1-77 (hex) INGRAM MICRO SERVICES
7CC177 (base 16) INGRAM MICRO SERVICES
100 CHEMIN DE BAILLOT
MONTAUBAN 82000
FR

78-76-D9 (hex) EXARA Group
7876D9 (base 16) EXARA Group
Andropova pr. 18 1
Moscow 115432
RU

94-A4-08 (hex) Shenzhen Trolink Technology CO, LTD
94A408 (base 16) Shenzhen Trolink Technology CO, LTD
201 B building 4 shijie, Chashu industry 505 block, Baoan airport Sanwei community, Hangcheng street Baoan area.
Shenzhen GuangDong 518000
CN

7C-84-37 (hex) China Post Communications Equipment Co., Ltd.
7C8437 (base 16) China Post Communications Equipment
Co., Ltd.
6 / F, block D, No.156, Beijing International Financial Building, Fuxingmennei street,Xicheng District
Beijing Beijing 100031
CN

B8-4D-43 (hex) HUNAN FN-LINK TECHNOLOGY LIMITED
B84D43 (base 16) HUNAN FN-LINK TECHNOLOGY LIMITED
No.8, Litong Road, Liuyan Economic & Tec
Changsha HUNAN 410329
CN

D0-F8-65 (hex) ITEL MOBILE LIMITED
D0F865 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

C8-9F-1A (hex) HUAWEI TECHNOLOGIES CO.,LTD
C89F1A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D8-68-52 (hex) HUAWEI TECHNOLOGIES CO.,LTD

D86852 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

AC-64-90 (hex) HUAWEI TECHNOLOGIES CO.,LTD
AC6490 (base 16) HUAWEI
TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A8-4A-63 (hex) TPV Display Technology(Xiamen) Co.,Ltd.
A84A63 (base 16) TPV Display Technology(Xiamen) Co.,Ltd.
No.1, Xianghai Road, Xiamen Torch Hi-Tech Industrial Development Zone, China
Xiamen Fujian 361101
CN

60-8F-A4 (hex) Nokia Solutions and Networks GmbH & Co. KG
608FA4 (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541
DE

24-3F-AA (hex) Huawei Device Co., Ltd.
243FAA (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

D8-67-D3 (hex) Huawei Device Co., Ltd.
D867D3 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

48-47-4B (hex) Huawei Device Co., Ltd.
48474B (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng
Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

80-6F-1C (hex) Huawei Device Co., Ltd.
806F1C (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

E0-A2-58 (hex) Wanbang Digital Energy Co.,Ltd
E0A258 (base 16) Wanbang Digital Energy Co.,Ltd
NO.39 Longhui Road,Wujin District
Changzhou 213100
CN

4C-BC-E9 (hex) LG Innotek
4CBCE9 (base 16) LG Innotek
26, Hanamsandan 5beon-ro
Gwangju Gwangsan-gu 506-731
KR

38-5C-76 (hex) PLANTRONICS, INC.
385C76 (base 16) PLANTRONICS, INC.
345 ENCINAL STREET
SANTA CRUZ CA 95060
US

9C-50-D1 (hex) Murata Manufacturing Co., Ltd.
9C50D1 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

14-00-20 (hex) LongSung Technology (Shanghai) Co.,Ltd.
140020 (base 16) LongSung Technology (Shanghai) Co.,Ltd.
Room 606, Block B,
Bldg. 1, No. 3000 Longdong Avenue., Zhangjiang Hi-Tech Park, Pudong District
ShangHai 201203
CN

30-B9-30 (hex) zte corporation
30B930 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

94-98-69 (hex) zte corporation
949869 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

50-3D-EB (hex) Zhejiang Tmall Technology Co., Ltd.
503DEB (base 16) Zhejiang Tmall Technology Co., Ltd.
Ali Center,No.3331 Keyuan South RD (Shenzhen bay), Nanshan District, Shenzhen Guangdong province
Shenzhen GuangDong 518000

CN

F8-7F-A5 (hex) GREATEK
F87FA5 (base 16) GREATEK
ESTRADA MUNICIPAL PEDRO R SILVA
EXTREMA MG 37640000
BR

74-5C-FA (hex) Shenzhen Shunrui Gaojie Technology Co., Ltd.
745CFA (base 16) Shenzhen Shunrui Gaojie Technology Co., Ltd.
502,Building A,No.18,Gongye 2nd
Road,Dakan Industrial Zone,Dakan community,Xili street,Nanshan District
Shenzhen Guangdong 518055
CN

5C-DF-B8 (hex) Shenzhen Unionmemory Information System Limited
5CDFB8 (base 16) Shenzhen Unionmemory Information System Limited
Factory Flat D24/F-02, Dong Jiao Tou, Houhai Road, Shekou, Nan Shan District
Shenzhen Guangdong 518067
CN

2C-1A-05 (hex) Cisco Systems, Inc
2C1A05 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

B4-0E-CF (hex) Bouffalo Lab (Nanjing) Co., Ltd.
B40ECF (base 16) Bouffalo Lab (Nanjing) Co., Ltd.
5F, Gongxiang Space, No.100 Tuanjie Road, Nanjing, China
Nanjing Jiangsu 211800
CN

F8-38-69 (hex) LG Electronics
F83869 (base 16) LG Electronics
Science Park W5, 10, Magokjungang 10-ro, Gangseo-gu
Seoul 07796
KR

2C-05-47 (hex) Shenzhen Phaten Tech. LTD
2C0547 (base 16) Shenzhen Phaten Tech. LTD
C-6 ideamonto industril 7002 Songbai Road
Guangming District Shenzhen City Guangdong, China
Shenzhen 518108
CN

E0-C5-8F (hex) China Mobile IOT Company Limited
E0C58F (base 16) China Mobile IOT Company Limited

NO.8 Yu Ma Road, NanAn Area
Chongqing Chongqing 401336
CN

E0-0A-F6 (hex) Liteon Technology Corporation
E00AF6 (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

F0-5E-CD (hex) Texas Instruments
F05ECD (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

2C-3A-91 (hex) Huawei Device Co., Ltd.
2C3A91 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

64-F7-05 (hex) Huawei Device Co., Ltd.
64F705 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

78-50-05 (hex) MOKO TECHNOLOGY Ltd
785005 (base 16) MOKO TECHNOLOGY Ltd
2F, Building1,No.37
Xiaxintang Xintang village,Fucheng Street,Longhua Distric
Shenzhen Guangdong 518110
CN

F0-B6-1E (hex) Intel Corporate
F0B61E (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C8-4D-44 (hex) Shenzhen Jiapeng Huaxiang Technology Co.,Ltd
C84D44 (base 16) Shenzhen Jiapeng Huaxiang Technology Co.,Ltd
2nd floor, building 5, taihemei Industrial Zone, 128 Chunfeng Road, longbeiling community, Tangxia Town
Shenzhen Guangdong 518109
CN

98-B1-77 (hex) LANDIS + GYR

98B177 (base 16) LANDIS + GYR
78th km Old National Road Athens-Corinth
Corinth 20100
GR

A0-29-BD (hex) Team Group Inc
A029BD (base 16) Team Group Inc
3F., No. 166 Jian 1st Rd.,
Zhonghe Dist. New Taipei City, 235
TW

64-DC-DE (hex) ZheJiang FuChunJiang Information Technology Co.,Ltd
64DCDE (base 16) ZheJiang FuChunJiang Information Technology Co.,Ltd
608 Golf Road, Dongzhou Street, Fuyang District,
Hangzhou City, Zhejiang Province, China
Hangzhou City Zhejiang Province 311400
CN

00-91-9E (hex) Intel Corporate
00919E (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

60-CE-41 (hex) HUAWEI TECHNOLOGIES CO.,LTD
60CE41 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

28-17-09 (hex) HUAWEI TECHNOLOGIES CO.,LTD
281709 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

60-6E-E8 (hex) Xiaomi Communications Co Ltd
606EE8 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

EC-97-E0 (hex) Hangzhou Ezviz Software Co.,Ltd.
EC97E0 (base 16) Hangzhou Ezviz Software Co.,Ltd.
Room 302, Unit B, Building 2, 399 Danfeng Road,Binjiang District
Hangzhou
Zhejiang 310051
CN

D0-B6-6F (hex) SERNET (SUZHOU) TECHNOLOGIES CORPORATION
D0B66F (base 16) SERNET (SUZHOU) TECHNOLOGIES CORPORATION
NO.8 Tangzhuang Road,Suzhou Industrial Park,Su ZhouCity,JiangSu Province,China
Suzhou 215021
CN

30-09-C0 (hex) Motorola Mobility LLC, a Lenovo Company
3009C0 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

70-1A-D5 (hex) Openpath Security, Inc.
701AD5 (base 16) Openpath Security, Inc.
13428 Maxella Ave, #866
Marina Del Rey CA 90292
US

FC-2E-19 (hex) China Mobile Group Device Co.,Ltd.
FC2E19 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

50-F9-08 (hex) Wizardlab Co., Ltd.
50F908 (base 16) Wizardlab Co., Ltd.
#1603, 5, Gasan digital 1-ro, Geumcheon-gu, Seoul
Seoul 08594
KR

EC-94-CB (hex) Espressif Inc.
EC94CB (base
16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

50-C2-E8 (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
50C2E8 (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

B0-46-92 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
B04692 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860

CN

AC-76-4C (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
AC764C (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

5C-58-E6 (hex) Palo Alto Networks
5C58E6 (base 16) Palo Alto Networks
3000 Tannery Way
Santa Clara CA 95054
US

0C-E1-59 (hex) Shenzhen iStartek Technology Co., Ltd.
0CE159 (base
16) Shenzhen iStartek Technology Co., Ltd.
Zone B, 4/F, Building A6, Qinghu Dongli Industrial Park, No. 416 Xuegang North Road, Longhua District,
Shenzhen Guangdong 518109
CN

00-14-13 (hex) Trebing & Himstedt Prozeßautomation GmbH & Co. KG
001413 (base 16) Trebing & Himstedt Prozeßautomation GmbH & Co. KG
Wilhelm Hennemann Straße 13
Schwerin Mecklenburg-Vorpommern 19061
DE

00-07-99 (hex) Tipping Point Technologies, Inc.
000799 (base 16) Tipping Point Technologies, Inc.
7501 B N. Capital of TX Hwy.
Austin TX 78731
US

DC-8D-8A (hex) Nokia Solutions and Networks GmbH & Co. KG
DC8D8A (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541
DE

70-86-CE (hex) GD Midea Air-Conditioning Equipment Co.,Ltd.
7086CE (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
Midea Global Innovation Center,Beijiao Town,Shunde
Foshan Guangdong 528311
CN

50-0F-59
(hex) STMicrolectronics International NV
500F59 (base 16) STMicrolectronics International NV

39, Chemin du Champ-des-Filles
Geneva, Plan-les-Quates 1228
CH

90-B5-7F (hex) Shenzhen iComm Semiconductor CO.,LTD
90B57F (base 16) Shenzhen iComm Semiconductor CO.,LTD
Room 601,Block B ,Digital Building,Garden City
Shenzhen No.1079 Nanhai Road,Nanshan District 518067
CN

E4-2A-AC (hex) Microsoft Corporation
E42AAC (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

20-E7-B6 (hex) Universal Electronics, Inc.
20E7B6 (base 16) Universal Electronics, Inc.
201 E. Sandpointe Ave
Santa Ana CA 92707
US

D4-3D-F3 (hex) Zyxel Communications Corporation
D43DF3 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

20-57-9E (hex) HUNAN FN-LINK TECHNOLOGY LIMITED
20579E (base 16) HUNAN FN-LINK TECHNOLOGY LIMITED
No.8,
Litong Road, Liuyan Economic & Tec
Changsha HUNAN 410329
CN

C8-84-CF (hex) HUAWEI TECHNOLOGIES CO.,LTD
C884CF (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E0-23-D7 (hex) Sleep Number
E023D7 (base 16) Sleep Number
1001 Third Avenue South
Minneapolis MN 55404
US

24-1D-48 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD

241D48 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

28-77-77 (hex) zte corporation
287777 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

60-E3-2B (hex) Intel Corporate
60E32B (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

D8-BE-65 (hex) Amazon Technologies Inc.
D8BE65 (base 16) Amazon
Technologies Inc.
P.O Box 8102
Reno NV 89507
US

28-DE-A8 (hex) zte corporation
28DEA8 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

80-8A-BD (hex) Samsung Electronics Co.,Ltd
808ABD (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

3C-CD-57 (hex) Beijing Xiaomi Mobile Software Co., Ltd
3CCD57 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

80-6A-10 (hex) Whisker Labs - Ting
806A10 (base 16) Whisker Labs - Ting
12410 Milestone Center Dr, Suite 325
Germantown MD 20876
US

C0-F8-27 (hex) Rapidmax Technology Corporation
C0F827 (base 16) Rapidmax Technology Corporation
3F., No.531, Zhongzheng Rd. Xindian Dist.
New Taipei City 23148
TW

24-5E-48
(hex) Apple, Inc.
245E48 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

08-C7-29 (hex) Apple, Inc.
08C729 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C4-C3-6B (hex) Apple, Inc.
C4C36B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E8-A7-30 (hex) Apple, Inc.
E8A730 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

60-06-E3 (hex) Apple, Inc.
6006E3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

AC-EC-85 (hex) eero inc.
ACEC85 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

10-6F-D9 (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
106FD9 (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

58-4D-42 (hex) Dragos, Inc.
584D42
(base 16) Dragos, Inc.
1745 Dorsey Rd, Suite R
Hanover MD 21076
US

60-8A-10 (hex) Microchip Technology Inc.
608A10 (base 16) Microchip Technology Inc.
2355 W. Chandler Blvd.
Chandler AZ 85224
US

A8-64-F1 (hex) Intel Corporate
A864F1 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

D0-1E-1D (hex) SaiNXT Technologies LLP
D01E1D (base 16) SaiNXT Technologies LLP
Shop No. 7, Sonawala Building, 1st Floor, Proctor Road, Grant Road (E)
Mumbai Maharashtra 400007
IN

E0-67-81 (hex) Dongguan Liesheng Electronic Co., Ltd.
E06781 (base 16) Dongguan Liesheng Electronic Co., Ltd.
F5, Building B, North Block, Gaosheng Tech Park, No. 84 Zhongli Road, Nancheng District, Dongguan Ci
dongguan guangdong 523000
CN

B8-DA-E8 (hex) Huawei Device Co., Ltd.
B8DAE8 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong
523808
CN

B8-AE-1D (hex) Guangzhou Xingyi Electronic Technology Co.,Ltd
B8AE1D (base 16) Guangzhou Xingyi Electronic Technology Co.,Ltd
Room 805-808, Room 801, Self-made Building 4, No. 1, 3 and 5, Kesheng Road, Guangzhou Private Science Park, No. 1633, Beitai Road, Baiyun District, Guangzhou
Guangzhou 51000
CN

D4-54-8B (hex) Intel Corporate
D4548B (base 16) Intel Corporate

Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

10-09-F9 (hex) Amazon Technologies Inc.
1009F9 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

D0-3E-7D (hex) CHIPSEA TECHNOLOGIES (SHENZHEN) CORP.
D03E7D (base 16) CHIPSEA TECHNOLOGIES (SHENZHEN) CORP.
9F,BLOCK A,GARDEN CITY DIGITAL BUILDING,NO.1079 NANHAI ROAD,NANSHAN DISTRICT
SHEN ZHEN GUANG DONG 518000
CN

90-69-76 (hex) Withrobot Inc.
906976 (base 16) Withrobot Inc.
#1001, Seoul Forest M-tower, 31, Ttukseom-ro 1-gil, Seongdong-gu
Seoul
Seoul 04778
KR

FC-92-57 (hex) Renesas Electronics (Penang) Sdn. Bhd.
FC9257 (base 16) Renesas Electronics (Penang) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

60-DB-15 (hex) New H3C Technologies Co., Ltd
60DB15 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

5C-A7-21 (hex) New H3C Technologies Co., Ltd
5CA721 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

A4-2A-71 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
A42A71 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

60-A5-E2 (hex) Intel Corporate

60A5E2 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

48-F8-FF (hex) CHENGDU KT ELECTRONIC HI-TECH CO.,LTD
48F8FF
(base 16) CHENGDU KT ELECTRONIC HI-TECH CO.,LTD
No.9, 3rd Wuke Road, Wuhou District
Chengdu Sichuan Province 610045
CN

E8-C1-E8 (hex) Shenzhen Xiao Bi En Culture Education Technology Co.,Ltd.
E8C1E8 (base 16) Shenzhen Xiao Bi En Culture Education Technology Co.,Ltd.
4GH Unit,Block D,Central Avenue,Intersection of Xixiang Avenue and Baoyuan Road,Labor Community,Xixiang Street,Baoan District
Shenzhen China 518102
CN

7C-70-DB (hex) Intel Corporate
7C70DB (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

8C-94-CC (hex) SFR
8C94CC (base 16) SFR
12 rue jean-philippe Rameau CS 80001
La plaine saint denis FRANCE 93634
FR

98-F2-17 (hex) Castlenet Technology Inc.
98F217 (base 16) Castlenet Technology Inc.
5F., No. 10, Daye Rd., Beitou Dist.
Taipei City 112030
TW

44-5B-ED (hex) Aruba, a Hewlett Packard Enterprise Company
445BED (base 16) Aruba, a Hewlett Packard
Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

84-EB-EF (hex) Cisco Systems, Inc
84EBEF (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568

US

A8-23-16 (hex) Nokia
A82316 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

38-E3-9F (hex) Motorola Mobility LLC, a Lenovo Company
38E39F (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

90-80-60 (hex) Nilfisk A/S
908060 (base 16) Nilfisk A/S
Kornmarksvej 1
Broendby 2605
DK

70-A6-CC (hex) Intel Corporate
70A6CC (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

6C-43-3C (hex) TECNO MOBILE LIMITED
6C433C (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

78-BB-88
(hex) Maxio Technology (Hangzhou) Ltd.
78BB88 (base 16) Maxio Technology (Hangzhou) Ltd.
6F, Building C, No.459 Qianmo Road, Juguang Center
Hangzhou Zhejiang 310051
CN

44-67-52 (hex) Wistron INFOCOMM (Zhongshan) CORPORATION
446752 (base 16) Wistron INFOCOMM (Zhongshan) CORPORATION
15 Cuiwei Road, Cuiheng New District
zhongshan Guangdong 528400
CN

60-B6-E1 (hex) Texas Instruments
60B6E1 (base 16) Texas Instruments

12500 TI Blvd
Dallas TX 75243
US

6C-79-B8 (hex) Texas Instruments
6C79B8 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

8C-A3-99 (hex) SERVERCOM (INDIA) PRIVATE LIMITED
8CA399 (base 16) SERVERCOM (INDIA) PRIVATE LIMITED
E-43/1 OKHLA INDUSTRIAL AREA PHASE-II NEW DELHI SOUTH DELHI
NEW DELHI NA
IN

D4-8D-D9 (hex) Meld Technology, Inc
D48DD9 (base 16) Meld Technology, Inc
725 San Aleso Ave
Sunnyvale CA 94085
US

58-2F-F7
(hex) Sagemcom Broadband SAS
582FF7 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

AC-E7-7B (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
ACE77B (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12,TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road,
Chengdu Sichuan 610000
CN

40-F4-20 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
40F420 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12,TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road,
Chengdu Sichuan 610000
CN

64-5D-92 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
645D92 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12,TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road, Chengdu, Sichuan
Chengdu Sichuan 610000
CN

8C-FD-15 (hex) Imagine Marketing Private Limited

8CFD15 (base 16) Imagine Marketing Private
Limited
501B, Shri Guru Har Krishan Bhavan Charat Singh Colony Road, Chakala, Andheri East,
Mumbai Maharashtra 400093
IN

14-22-3B (hex) Google, Inc.
14223B (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

C4-FF-22 (hex) Huawei Device Co., Ltd.
C4FF22 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

A0-A0-DC (hex) Huawei Device Co., Ltd.
A0A0DC (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C4-80-8A (hex) Cloud Diagnostics Canada ULC
C4808A (base 16) Cloud Diagnostics Canada ULC
72 Victoria St. S., Unit 100
Kitchener Ontario N2G 4Y9
CA

2C-DD-E9 (hex) Arista Networks
2CDDE9 (base 16) Arista Networks
5453 Great America Parkway
Santa Clara CA 95054
US

70-97-41 (hex) Arcadyan Corporation
709741 (base 16) Arcadyan
Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

E4-08-E7 (hex) Quectel Wireless Solutions Co.,Ltd.
E408E7 (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

0C-8D-CA (hex) Samsung Electronics Co.,Ltd
0C8DCA (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

CC-0D-E7 (hex) B METERS S.R.L.
CC0DE7 (base 16) B METERS S.R.L.
VIA FRIULI 3
GONARS UDINE 33050
IT

44-56-E2 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
4456E2 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

68-3A-48 (hex) SAMJIN Co., Ltd.
683A48 (base 16) SAMJIN Co., Ltd.
199-6, Anyang 7-dong, Manan-gu
Anyang-si Gyeonggi-do 430-817
KR

CC-A2-60 (hex) Sichuan Tianyi Comheart Telecom
Co.,LTD
CCA260 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12,TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road,
Chengdu Sichuan 610000
CN

9C-61-21 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
9C6121 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12,TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road,
Chengdu Sichuan 610000
CN

E0-4F-BD (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
E04FBD (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12,TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road,
Chengdu Sichuan 610000
CN

5C-A1-76 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
5CA176 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12, TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road,
Chengdu Sichuan 610000

CN

4C-D3-AF (hex) HMD Global Oy
4CD3AF (base 16) HMD Global Oy
Bertel
Jungin aukio 9
Espoo 02600
FI

C8-51-42 (hex) Samsung Electronics Co.,Ltd
C85142 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

10-E4-C2 (hex) Samsung Electronics Co.,Ltd
10E4C2 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

AC-D8-29 (hex) Bouffalo Lab (Nanjing) Co., Ltd.
ACD829 (base 16) Bouffalo Lab (Nanjing) Co., Ltd.
5F, Gongxiang Space, No.100 Tuanjie Road, Nanjing, China
Nanjing Jiangsu 211800
CN

5C-62-5A (hex) CANON INC.
5C625A (base 16) CANON INC.
30-2 Shimomaruko 3-chome,
Ohta-ku Tokyo 146-8501
JP

7C-0A-3F (hex) Samsung Electronics Co.,Ltd
7C0A3F (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

08-AA-89 (hex) zte corporation
08AA89 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen
guangdong 518057
CN

04-D6-0E (hex) FUNAI ELECTRIC CO., LTD.
04D60E (base 16) FUNAI ELECTRIC CO., LTD.

7-7-1, Nakagaito
Daito Osaka 574-0013
JP

B0-C9-52 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
B0C952 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

D0-E0-42 (hex) Cisco Systems, Inc
D0E042 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

C4-74-69 (hex) BT9
C47469 (base 16) BT9
Dolev 33
Tefen 2495900
IL

F4-6F-A4 (hex) Physik Instrumente GmbH & Co. KG
F46FA4 (base 16) Physik Instrumente GmbH & Co. KG
Auf der Roemerstr. 1
Karlsruhe 76228
DE

C8-BB-81 (hex) Huawei Device Co., Ltd.
C8BB81 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

1C-47-2F (hex) Huawei Device Co., Ltd.
1C472F (base 16) Huawei
Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

20-5E-64 (hex) Huawei Device Co., Ltd.
205E64 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

F4-41-9E (hex) Huawei Device Co., Ltd.

F4419E (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

90-F9-B7 (hex) HUAWEI TECHNOLOGIES CO.,LTD
90F9B7 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F4-45-88 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F44588 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

60-57-7D (hex) eero inc.
60577D (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

3C-37-12 (hex) AVM Audiovisuelles Marketing
und Computersysteme GmbH
3C3712 (base 16) AVM Audiovisuelles Marketing und Computersysteme GmbH
Alt-Moabit 95
Berlin Berlin 10559
DE

54-AE-D2 (hex) CSL Dualcom Ltd
54AED2 (base 16) CSL Dualcom Ltd
Salamander Quay West, Park Lane
Harefield Middlesex UB9 6NZ
GB

80-B6-55 (hex) Intel Corporate
80B655 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

0C-CB-0C (hex) iSYS RTS GmbH
0CCB0C (base 16) iSYS RTS GmbH
Moosacher Str. 88
Munich Bavaria 80809
DE

F4-4E-E3 (hex) Intel Corporate
F44EE3 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

78-F2-35 (hex) Sichuan AI-Link Technology Co., Ltd.
78F235 (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou, Industrial Park
Mianyang Sichuan 622650
CN

08-2F-E9 (hex) HUAWEI TECHNOLOGIES CO.,LTD
082FE9 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road,
Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

98-48-74 (hex) HUAWEI TECHNOLOGIES CO.,LTD
984874 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

1C-A6-81 (hex) HUAWEI TECHNOLOGIES CO.,LTD
1CA681 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E8-A6-60 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E8A660 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

CC-24-2E (hex) Shenzhen SuperElectron Technology Co.,Ltd.
CC242E (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen Guangdong 518000
CN

F0-01-6E (hex) Tianyi Telecom Terminals Company Limited
F0016E (base 16) Tianyi
Telecom Terminals Company Limited
6/F Changshang Building, No.29 North Xinhua Street, Xicheng District
Beijing 100031

CN

EC-0B-AE (hex) Hangzhou BroadLink Technology Co.,Ltd
EC0BAE (base 16) Hangzhou BroadLink Technology Co.,Ltd
Room 101,1/F,Unit C,Building 1,No.57 Jiang'er Road,Changhe Street,Binjiang District,Hangzhou,Zhejiang,P.R.China
Hangzhou Zhejiang 310052
CN

80-25-11 (hex) ITEL MOBILE LIMITED
802511 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

38-02-DE (hex) Sercomm Corporation.
3802DE (base 16) Sercomm Corporation.
3F,No.81,Yu-Yih Rd.,Chu-Nan Chen
Miao-Lih Hsuan 115
TW

D0-CF-D8 (hex) Huizhou Boshijie Technology Co.,Ltd
D0CFD8 (base 16) Huizhou Boshijie Technology Co.,Ltd
No.1 Xisan road, Huifeng west road, Zhongkai high-tech zone
Huizhou Guangdong 516006
CN

2C-BE-EB (hex) Nothing
Technology Limited
2CBEEB (base 16) Nothing Technology Limited
11 Staple Inn
London London WC1V 7QH
GB

74-09-AC (hex) Quext, LLC
7409AC (base 16) Quext, LLC
5214 68th St., Suite 201
Lubbock TX 79424
US

F0-4A-02 (hex) Cisco Systems, Inc
F04A02 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

50-9A-46 (hex) Safetrust Inc
509A46 (base 16) Safetrust Inc

8112 Mill Creek Rd
Fremont CA 94539
US

A4-35-2D (hex) TRIZ Networks corp.
A4352D (base 16) TRIZ Networks corp.
815 Daewangpangyo-ro
Sujeong-gu, Seongnam-si Gyeonggi-do 13449
KR

B8-81-FA (hex) Apple, Inc.
B881FA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

9C-76-0E (hex) Apple, Inc.
9C760E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

94-EA-32 (hex) Apple, Inc.
94EA32 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino
CA 95014
US

50-F4-EB (hex) Apple, Inc.
50F4EB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

28-C7-09 (hex) Apple, Inc.
28C709 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

08-2E-36 (hex) Huawei Device Co., Ltd.
082E36 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C8-BF-FE (hex) Huawei Device Co., Ltd.

C8BFFE (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

04-9F-81 (hex) NETSCOUT SYSTEMS INC
049F81 (base 16) NETSCOUT SYSTEMS INC
310 Littleton Road
Westford MA 01886
US

00-80-8C (hex) NETSCOUT SYSTEMS INC
00808C (base 16) NETSCOUT SYSTEMS INC
310 Littleton Road
Westford MA 01886
US

40-24-B2 (hex) Sichuan AI-Link Technology Co., Ltd.
4024B2 (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou,
Industrial Park
Mianyang Sichuan 622650
CN

64-0D-22 (hex) LG Electronics (Mobile Communications)
640D22 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

8C-31-E2 (hex) DAYOUPLUS
8C31E2 (base 16) DAYOUPLUS
3F 509, Dunchon-daero, Jungwon-gu, Seongnam-si, Gyeonggi-do, Republic of Korea
Seongnam-si Gyeonggi-do 13217
KR

10-39-4E (hex) Hisense broadband multimedia technology Co.,Ltd
10394E (base 16) Hisense broadband multimedia technology Co.,Ltd
Song ling Road 399
Qingdao 266000
CN

20-A7-F9 (hex) SHENZHEN OLANBOA TECHNOLOGY CO., LTD
20A7F9 (base 16) SHENZHEN OLANBOA TECHNOLOGY CO., LTD
4/F, Building B, Block A, Longquan Science Park, Tongfuyu Phase II, Tongsheng Community, Dalang Street, Longhua District, Shenzhen
shenzhen Guangdong 518000
CN

C0-06-C3 (hex) TP-Link Corporation Limited
C006C3 (base 16) TP-Link Corporation Limited
Room
901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

F4-C7-AA (hex) Marvell Semiconductors
F4C7AA (base 16) Marvell Semiconductors
15485 Sand Canyon Ave
IRVINE CA 92618
US

70-F0-88 (hex) Nintendo Co.,Ltd
70F088 (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

CC-ED-21 (hex) Nokia Shanghai Bell Co., Ltd.
CCED21 (base 16) Nokia Shanghai Bell Co., Ltd.
No.388 Ning Qiao Road,Jin Qiao Pudong Shanghai
Shanghai 201206
CN

FC-4D-A6 (hex) HUAWEI TECHNOLOGIES CO.,LTD
FC4DA6 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

3C-15-12 (hex) Shenzhen Huanhu Technology Co.,Ltd
3C1512 (base 16) Shenzhen Huanhu Technology Co.,Ltd
7 / F, building C4, Hengfeng Industrial City, 739 Zhoushi Road, Hezhou community, Hangcheng street, Bao'an District,
Shenzhen
Shenzhen 518000
CN

18-C2-41 (hex) SonicWall
18C241 (base 16) SonicWall
1033 McCarthy Blvd
Milpitas CA 95035
US

58-45-4C (hex) Ericsson AB
58454C (base 16) Ericsson AB

Torshamnsgatan 36
Stockholm SE-164 80
SE

B4-14-E6 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B414E6 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

AC-99-29 (hex) HUAWEI TECHNOLOGIES CO.,LTD
AC9929 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

04-BA-1C (hex) Huawei Device Co., Ltd.
04BA1C (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

7C-3D-2B (hex) Huawei Device Co., Ltd.
7C3D2B (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

14-51-7E
(hex) New H3C Technologies Co., Ltd
14517E (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

08-3A-38 (hex) New H3C Technologies Co., Ltd
083A38 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

F8-AB-E5 (hex) shenzhen worldelite electronics co., LTD
F8ABE5 (base 16) shenzhen worldelite electronics co., LTD
Office 5 F, Xiang Yu Industrial Park, Longsheng Road, Longgang Dist
Shenzhen Guangdong 51800
CN

08-BB-3C (hex) Flextronics Tech.(Ind) Pvt Ltd

08BB3C (base 16) Flextronics Tech.(Ind) Pvt Ltd
365, Benjamin Road
Sricity Vardahiah Palem(M),Chilamathur Village, Chittoor Distict 517646
IN

10-D5-61 (hex) Tuya Smart Inc.
10D561 (base 16) Tuya Smart Inc.
160 Greentree Drive, Suite 101
Dover DE 19904
US

F0-A3-B2 (hex) Hui Zhou Gaoshengda Technology
Co.,LTD
F0A3B2 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.75,Zhongkai High-Tech Development District,Huizhou
Hui Zhou Guangdong 516006
CN

18-48-59 (hex) Castlenet Technology Inc.
184859 (base 16) Castlenet Technology Inc.
5th Fl., No.159-1, Sec.3, Beishen Rd., Shenkeng Dist.,
New Taipei City 222004
TW

2C-FD-B3 (hex) Tonly Technology Co. Ltd
2CFDB3 (base 16) Tonly Technology Co. Ltd
Section 37, Zhongkai Hi-Tech Development Zone
Huizhou Guangdong 516006
CN

9C-DB-CB (hex) Wuhan Funshion Online Technologies Co.,Ltd
9CDBCB (base 16) Wuhan Funshion Online Technologies Co.,Ltd
5th Floor,Financial Port Building A9,No.77 Optical Valley Avenue, East Lake High-Tech Development Zone, Wuhan
Wuhan CN/Hubei 430000
CN

2C-CE-1E (hex) Cloudtronics Pty Ltd
2CCE1E (base 16) Cloudtronics Pty Ltd
Unit 1 6 Powells Road Brookvale
Sydney NSW 2100
AU

DC-9A-8E (hex) Nanjing Cocomm electronics
co., LTD
DC9A8E (base 16) Nanjing Cocomm electronics co., LTD
Room 201,the Qinheng technology park building
Nanjing Jiangsu 210012

CN

58-AE-F1 (hex) Fiberhome Telecommunication Technologies Co.,LTD
58AEF1 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

E8-6C-C7 (hex) IEEE Registration Authority
E86CC7 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

C0-D4-6B (hex) Huawei Device Co., Ltd.
C0D46B (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

9C-95-67 (hex) Huawei Device Co., Ltd.
9C9567 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

A4-7B-1A (hex) Huawei Device Co., Ltd.
A47B1A (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong
523808
CN

D8-59-82 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D85982 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

48-B2-5D (hex) HUAWEI TECHNOLOGIES CO.,LTD
48B25D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A4-1B-34 (hex) China Mobile Group Device Co.,Ltd.
A41B34 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District

Beijing 100053
CN

14-7D-05 (hex) SERCOMM PHILIPPINES INC
147D05 (base 16) SERCOMM PHILIPPINES INC
Lot 1 & 5, Phase 1, Filinvest Technology Park 1, Brgy. Punta, Calamba City
Calamba Lot 1
PH

78-7A-6F (hex) Juice Technology AG
787A6F (base 16) Juice Technology AG
Gewerbestrasse 7
Cham Select State CH-6330
CH

64-17-59 (hex) Intellivision Holdings, LLC
641759 (base 16) Intellivision
Holdings, LLC
1844 E Carnegie
Santa Ana CA 92705
US

50-43-48 (hex) ThingsMatrix Inc.
504348 (base 16) ThingsMatrix Inc.
9442 North Capital of Texas Hwy Plaza One Suite 500 Austin
Austin TX 78759
US

80-45-DD (hex) Intel Corporate
8045DD (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-2D-B3 (hex) AMPAK Technology,Inc.
002DB3 (base 16) AMPAK Technology,Inc.
3F, No.15-1 Zhonghua Road, Hsinchu Industrail Park, Hukou,
Hsinchu Hsinchu,Taiwan R.O.C. 30352
TW

E4-FD-45 (hex) Intel Corporate
E4FD45 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

14-50-51 (hex) SHARP Corporation
145051 (base 16) SHARP Corporation

1 Takumi-cho, Sakai-ku
Sakai City Osaka 590-8522
JP

3C-C7-86 (hex) DONGGUAN HUARONG COMMUNICATION TECHNOLOGIES CO.,LTD.
3CC786 (base 16) DONGGUAN HUARONG COMMUNICATION TECHNOLOGIES CO.,LTD.
No.130
Dongxing East Road, Dongkeng Town
DONGGUAN 523450
CN

A4-7E-36 (hex) EM Microelectronic
A47E36 (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

98-38-7D (hex) ITRONIC TECHNOLOGY CO . , LTD .
98387D (base 16) ITRONIC TECHNOLOGY CO . , LTD .
2F C Building Fu Xin Lin lndustrial Park Hangcheng
lndustrial Zone Xixiang Street Baoan District Shenzhen 518100
CN

AC-D6-18 (hex) OnePlus Technology (Shenzhen) Co., Ltd
ACD618 (base 16) OnePlus Technology (Shenzhen) Co., Ltd
18C02, 18C03, 18C04 ,18C05,TAIRAN BUILDING,
Shenzhen Guangdong 518000
CN

6C-56-40 (hex) BLU Products Inc
6C5640 (base 16) BLU Products Inc
10814 NW 33rd Street
Miami FL 33172
US

88-C3-E5 (hex) Betop Techonologies
88C3E5 (base 16) Betop Techonologies
6F., No. 669, Bannan Road, Zhonghe District
New Taipei City 235
TW

E4-28-A4 (hex) Prama India Private Limited
E428A4
(base 16) Prama India Private Limited
Off 103, 765 Fly Edge, TPS III Jn of S V Rd, Nr Kora Kendra
Borivali West, Mumbai Maharashtra 400092
IN

94-3A-91 (hex) Amazon Technologies Inc.
943A91 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

18-4C-AE (hex) CONTINENTAL
184CAE (base 16) CONTINENTAL
1 AVENUE PAUL OURLIAC
TOULOUSE 31100
FR

C4-D0-E3 (hex) Intel Corporate
C4D0E3 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

28-C8-7C (hex) zte corporation
28C87C (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

30-7C-4A (hex) Huawei Device Co., Ltd.
307C4A (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C8-D8-84 (hex) Universal Electronics, Inc.
C8D884 (base 16) Universal Electronics, Inc.
201
E. Sandpointe Ave
Santa Ana CA 92707
US

B4-A2-5C (hex) Cambium Networks Limited
B4A25C (base 16) Cambium Networks Limited
Unit B2, Linhay Business Park,
Ashburton Devon TQ13 7UP
GB

2C-71-FF (hex) Amazon Technologies Inc.
2C71FF (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

DC-00-77 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
DC0077 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

48-78-5E (hex) Amazon Technologies Inc.
48785E (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

20-C7-4F (hex) SensorPush
20C74F (base 16) SensorPush
PO Box 211
Garrison NY 10524
US

24-E8-53 (hex) LG Innotek
24E853 (base 16) LG Innotek
26, Hanamsandan 5beon-ro
Gwangju Gwangsan-gu 506-731
KR

48-29-52 (hex) Sagemcom
Broadband SAS
482952 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

B0-5D-D4 (hex) ARRIS Group, Inc.
B05DD4 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

F0-21-E0 (hex) eero inc.
F021E0 (base 16) eero inc.
660 3rd Street
San Francisco 94107
US

60-6C-63 (hex) Hitron Technologies. Inc
606C63 (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C
Hsin-chu Taiwan 300

TW

00-F3-61 (hex) Amazon Technologies Inc.
00F361 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

00-40-DD (hex) HONG TECHNOLOGIES
0040DD (base 16) HONG TECHNOLOGIES
532 WEDDELL DRIVE
SUNNYVALE CA 94089
US

40-8C-1F (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
408C1F (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS
CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

04-F0-3E (hex) Huawei Device Co., Ltd.
04F03E (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

E8-D7-65 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E8D765 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

50-2D-FB (hex) IGShare Co., Ltd.
502DFB (base 16) IGShare Co., Ltd.
410-ho, 28, Digital-ro 30-gil
Guro-gu, SEOUL 08389
KR

40-EE-15 (hex) Zioncom Electronics (Shenzhen) Ltd.
40EE15 (base 16) Zioncom Electronics (Shenzhen) Ltd.
A1&A2 Building,Lantian Technology Park, Xinyu Road, Xingqiao Henggang Block, Shajing Street, Baoan District
Shenzhen Guangdong 518000
CN

6C-0D-E1 (hex) Dongguan Cannice Precision Manufacturing Co., Ltd.
6C0DE1 (base 16) Dongguan Cannice Precision Manufacturing Co., Ltd.
Dongguan

Cannice Precision Manufacturing Co., Ltd.
Dongguan Guangdong 523170
CN

6C-03-09 (hex) Cisco Systems, Inc
6C0309 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

BC-D2-95 (hex) Cisco Systems, Inc
BCD295 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

80-C5-01 (hex) OctoGate IT Security Systems GmbH
80C501 (base 16) OctoGate IT Security Systems GmbH
Friedrich List Strasse 42
Paderborn NRW 33100
DE

14-D1-9E (hex) Apple, Inc.
14D19E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

40-C7-11 (hex) Apple, Inc.
40C711 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

5C-70-17 (hex) Apple, Inc.
5C7017 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

8C-EC-7B (hex) Apple, Inc.
8CEC7B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C4-30-CA

(hex) SD Biosensor
C430CA (base 16) SD Biosensor
C-4th & 5th Floor, Digital Empire Building, 980-3
Suwon-si Kyonggi-do ASI|KR|KS002|SUWON
KR

28-05-2E (hex) Dematic Corp
28052E (base 16) Dematic Corp
507 Plymouth Ave NE
Grand Rapids MI 49505
US

E4-5E-1B (hex) Google, Inc.
E45E1B (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

78-E2-2C (hex) Huawei Device Co., Ltd.
78E22C (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C0-D0-26 (hex) Huawei Device Co., Ltd.
C0D026 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

A4-42-3B (hex) Intel Corporate
A4423B (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

EC-BE-5F (hex) Vestel Elektronik San ve Tic. A.S.
ECBE5F (base 16) Vestel Elektronik
San ve Tic. A.S.
Organize san
Manisa Turket 45030
TR

70-CF-49 (hex) Intel Corporate
70CF49 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

48-51-C5 (hex) Intel Corporate
4851C5 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

20-EF-BD (hex) Roku, Inc
20EFBD (base 16) Roku, Inc
1155 Coleman Ave
San Jose CA 95110
US

F4-2A-7D (hex) TP-LINK TECHNOLOGIES CO.,LTD.
F42A7D (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

04-F9-93 (hex) Infinix mobility limited
04F993 (base 16) Infinix mobility limited
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
HongKong HongKong 999077
HK

BC-BD-9E (hex) ITEL MOBILE LIMITED
BCBD9E (base 16) ITEL MOBILE
LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

BC-6D-05 (hex) Dusun Electron Co.,Ltd.
BC6D05 (base 16) Dusun Electron Co.,Ltd.
NO.640 FengQing str.,DeQing, ZheJiang, China
huzhou zhejiang 313200
CN

C0-E0-18 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C0E018 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

5C-E7-47 (hex) HUAWEI TECHNOLOGIES CO.,LTD
5CE747 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park

Dongguan 523808
CN

A8-FF-BA (hex) HUAWEI TECHNOLOGIES CO.,LTD
A8FFBA (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F0-39-65 (hex) Samsung Electronics Co.,Ltd
F03965 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi
Gyeongbuk 730-350
KR

EC-7C-B6 (hex) Samsung Electronics Co.,Ltd
EC7CB6 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

58-A6-39 (hex) Samsung Electronics Co.,Ltd
58A639 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A4-E5-7C (hex) Espressif Inc.
A4E57C (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

8C-0F-C9 (hex) Huawei Device Co., Ltd.
8C0FC9 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

30-4E-1B (hex) Huawei Device Co., Ltd.
304E1B (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

74-50-4E (hex) New H3C Technologies Co., Ltd
74504E (base 16) New H3C Technologies Co., Ltd

466 Changhe Road, Binjiang District
Hangzhou
Zhejiang 310052
CN

7C-C2-C6 (hex) TP-Link Corporation Limited
7CC2C6 (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

08-9A-C7 (hex) zte corporation
089AC7 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

74-4C-A1 (hex) Liteon Technology Corporation
744CA1 (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

B4-B2-91 (hex) LG Electronics
B4B291 (base 16) LG Electronics
222 LG-ro, JINWI-MYEON
Pyeongtaek-si Gyeonggi-do 451-713
KR

D8-00-93 (hex) Aurender Inc.
D80093 (base 16) Aurender Inc.
#1612, OBIZTOWER, 126, Beolmal-ro, Dongan-gu
Anyang-si Gyeonggi-do 14057
KR

38-90-52 (hex) HUAWEI TECHNOLOGIES CO.,LTD
389052 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng
Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C0-F6-EC (hex) HUAWEI TECHNOLOGIES CO.,LTD
C0F6EC (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

CC-20-8C (hex) HUAWEI TECHNOLOGIES CO.,LTD
CC208C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

88-5A-85 (hex) Wistron Neweb Corporation
885A85 (base 16) Wistron Neweb Corporation
No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu R.O.C. 308
TW

94-8E-D3 (hex) Arista Networks
948ED3 (base 16) Arista Networks
5453 Great America Parkway
Santa Clara CA 95054
US

24-E4-C8 (hex) Fiberhome Telecommunication Technologies Co.,LTD
24E4C8 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

68-76-27 (hex) Zhuhai Dingzhi Electronic
Technology Co., Ltd
687627 (base 16) Zhuhai Dingzhi Electronic Technology Co., Ltd
6th floor, No.2 Jinliang Road, Hongqi Town, Jinwan District
Zhuhai GuangDong 519000
CN

C8-6C-3D (hex) Amazon Technologies Inc.
C86C3D (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

70-61-7B (hex) Cisco Systems, Inc
70617B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A0-02-4A (hex) IEEE Registration Authority
A0024A (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

04-E7-7E (hex) We Corporation Inc.
04E77E (base 16) We Corporation Inc.
201, 33, Deokcheon-ro, Manan-gu
Anyang-si Gyeonggi-do 14088
KR

74-EC-B2 (hex) Amazon Technologies Inc.
74ECB2 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

4C-52-EC (hex) SOLARWATT GmbH
4C52EC (base 16) SOLARWATT GmbH
Maria-Reiche-Str. 2a
Dresden
01109
DE

E0-1F-ED (hex) Nokia Shanghai Bell Co., Ltd.
E01FED (base 16) Nokia Shanghai Bell Co., Ltd.
No.388 Ning Qiao Road,Jin Qiao Pudong Shanghai
Shanghai 201206
CN

30-D9-41 (hex) Raydium Semiconductor Corp.
30D941 (base 16) Raydium Semiconductor Corp.
2F, No. 23, LiHsin Rd., Hsinchu Science Park
Hsinchu, Taiwan, R.O.C. TW 300
TW

14-6B-9A (hex) zte corporation
146B9A (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

9C-28-B3 (hex) Apple, Inc.
9C28B3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A0-78-17 (hex) Apple, Inc.
A07817 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

5C-87-30 (hex) Apple, Inc.
5C8730 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A4-AA-FE (hex) Huawei Device Co., Ltd.
A4AAFE (base 16) Huawei Device
Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

F8-3B-7E (hex) Huawei Device Co., Ltd.
F83B7E (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

88-15-C5 (hex) Huawei Device Co., Ltd.
8815C5 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

B4-1B-B0 (hex) Apple, Inc.
B41BB0 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

58-D3-49 (hex) Apple, Inc.
58D349 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F4-34-F0 (hex) Apple, Inc.
F434F0 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B0-8C-75 (hex) Apple, Inc.
B08C75 (base 16) Apple, Inc.
1 Infinite Loop

Cupertino CA 95014
US

70-40-FF (hex) Huawei Device Co., Ltd.
7040FF (base 16) Huawei Device Co., Ltd.
No.2
of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

34-D6-93 (hex) Huawei Device Co., Ltd.
34D693 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

9C-9A-C0 (hex) LEGO System A/S
9C9AC0 (base 16) LEGO System A/S
Aastvej 1
Billund DK-7190
DK

A0-9F-10 (hex) SHENZHEN BILIAN ELECTRONIC CO.LTD
A09F10 (base 16) SHENZHEN BILIAN ELECTRONIC CO.LTD
NO.268? Fuqian Rd, Jutang community, Guanlan Town, Longhua New district
shenzhen guangdong 518000
CN

20-1B-88 (hex) Dongguan Liesheng Electronic Co., Ltd.
201B88 (base 16) Dongguan Liesheng Electronic Co., Ltd.
F5, Building B, North Block, Gaosheng Tech Park, No. 84 Zhongli Road, Nancheng District, Dongguan Ci
dongguan guangdong 523000
CN

E8-EB-34 (hex) Cisco Systems, Inc
E8EB34 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

3C-BD-C5
(hex) Arcadyan Corporation
3CBDC5 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

A8-DA-0C (hex) SERVERCOM (INDIA) PRIVATE LIMITED

A8DA0C (base 16) SERVERCOM (INDIA) PRIVATE LIMITED
E-43/1 OKHLA INDUSTRIAL AREA PHASE-II NEW DELHI SOUTH DELHI
NEW DELHI 110001
IN

58-60-D8 (hex) ARRIS Group, Inc.
5860D8 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

50-A5-DC (hex) ARRIS Group, Inc.
50A5DC (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

24-94-93 (hex) FibRSol Global Network Limited
249493 (base 16) FibRSol Global Network Limited
17, Deep vihar, Vikas Nagar,, Near Mayank hospital,, Uttam Nagar,
New Delhi Delhi 110059
IN

28-D0-44 (hex) Shenzhen Xinyin technology company
28D044 (base 16) Shenzhen Xinyin technology company
2/F, Building C, Jianxing Technology Building, Shahe
West Road, Xili Street, Nanshan District
Shenzhen Guangdong 518055
CN

5C-10-C5 (hex) Samsung Electronics Co.,Ltd
5C10C5 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A8-40-7D (hex) GD Midea Air-Conditioning Equipment Co.,Ltd.
A8407D (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
Midea Global Innovation Center,Beijiao Town,Shunde
Foshan Guangdong 528311
CN

FC-4B-57 (hex) Peerless Instrument Division of Curtiss-Wright
FC4B57 (base 16) Peerless Instrument Division of Curtiss-Wright
1966D Broadhollow Road
East Farmingdale NY 11735
US

74-B7-B3 (hex) Shenzhen YOUHUA Technology Co., Ltd
74B7B3 (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

DC-9B-D6 (hex) TCT mobile ltd
DC9BD6 (base 16) TCT mobile ltd
No.86 hechang
7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

DC-8C-1B (hex) vivo Mobile Communication Co., Ltd.
DC8C1B (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

F8-53-29 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F85329 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E8-0A-EC (hex) Jiangsu Hengtong Optic-Electric Co., LTD
E80AEC (base 16) Jiangsu Hengtong Optic-Electric Co., LTD
88 Hengtong Dadao, Qidu Town, Wujiang District
Suzhou Jiangsu Province 215200
CN

C4-DE-7B (hex) Huawei Device Co., Ltd.
C4DE7B (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

6C-1A-75 (hex) Huawei Device Co., Ltd.
6C1A75 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong
523808
CN

40-D4-BD (hex) SK Networks Service CO., LTD.
40D4BD (base 16) SK Networks Service CO., LTD.
120, Jangan-ro, Jangan-gu
Suwon-si Gyeonggi-do 16312

KR

84-1B-77 (hex) Intel Corporate
841B77 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

7C-C2-94 (hex) Beijing Xiaomi Mobile Software Co., Ltd
7CC294 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

E0-E2-E6 (hex) Espressif Inc.
E0E2E6 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

6C-76-37 (hex) Huawei Device Co., Ltd.
6C7637 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

68-D4-8B (hex) Hailo Technologies Ltd.
68D48B (base 16) Hailo Technologies Ltd.
94 Yigal
Alon
Tel Aviv 6789139
IL

C4-37-72 (hex) Virtuozzo International GmbH
C43772 (base 16) Virtuozzo International GmbH
Vordergasse 59
Schaffhausen 8200
CH

CC-3B-27 (hex) TECNO MOBILE LIMITED
CC3B27 (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

3C-D2-E5 (hex) New H3C Technologies Co., Ltd
3CD2E5 (base 16) New H3C Technologies Co., Ltd

466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

9C-73-70 (hex) HUAWEI TECHNOLOGIES CO.,LTD
9C7370 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

98-3F-60 (hex) HUAWEI TECHNOLOGIES CO.,LTD
983F60 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C0-3F-DD
(hex) HUAWEI TECHNOLOGIES CO.,LTD
C03FDD (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

30-32-35 (hex) Qingdao Intelligent&Precise Electronics Co.,Ltd.
303235 (base 16) Qingdao Intelligent&Precise Electronics Co.,Ltd.
No.218 Qianwangang Road
Qingdao Shangdong 266510
CN

00-30-1F (hex) OPTICAL NETWORKS, INC.
00301F (base 16) OPTICAL NETWORKS, INC.
166 BAYPOINTE PARKWAY
SAN JOSE CA 95134
US

08-58-A5 (hex) Beijing Vrv Software Corpoaration Limited.
0858A5 (base 16) Beijing Vrv Software Corpoaration Limited.
Room 1602, block C, Zhongguancun Science and technology development building, 34 Zhongguancun South Street
Beijing Beijing 100000
CN

18-EE-86 (hex) Novatel Wireless Solutions, Inc.
18EE86 (base 16) Novatel Wireless Solutions, Inc.
9710 Scranton Rd., Suite 200
San Diego CA 92121
US

00-13-91 (hex) OUEN

CO.,LTD.
001391 (base 16) OUEN CO.,LTD.
Gotanda NT Bldg.7F,
Shinagawa-ku Tokyo 141-0022
JP

58-24-29 (hex) Google, Inc.
582429 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

7C-73-EB (hex) Huawei Device Co., Ltd.
7C73EB (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

E4-8F-1D (hex) Huawei Device Co., Ltd.
E48F1D (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

CC-F5-5F (hex) E FOCUS INSTRUMENTS INDIA PRIVATE LIMITED
CCF55F (base 16) E FOCUS INSTRUMENTS INDIA PRIVATE LIMITED
PLOT NO 21, 1ST FLOOR, NO 22, SAMAYAPURAM MAIN ROAD PORUR
CHENNAI TAMIL NADU 600116
IN

08-7C-39 (hex) Amazon Technologies Inc.
087C39 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

14-13-33 (hex) AzureWave Technology Inc.
141333
(base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

A4-17-8B (hex) HUAWEI TECHNOLOGIES CO.,LTD
A4178B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

94-B2-71 (hex) HUAWEI TECHNOLOGIES CO.,LTD
94B271 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

80-8F-E8 (hex) Intelbras
808FE8 (base 16) Intelbras
BR 101, km 210, S/N°
São José Santa Catarina 88104800
BR

18-CC-18 (hex) Intel Corporate
18CC18 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C0-C9-E3 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
C0C9E3 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

F8-8C-21
(hex) TP-LINK TECHNOLOGIES CO.,LTD.
F88C21 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

C4-27-8C (hex) Huawei Device Co., Ltd.
C4278C (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

78-05-8C (hex) mMax Communications, Inc.
78058C (base 16) mMax Communications, Inc.
5151 California Ave., Suite 100
Irvine CA 92617
US

C4-A7-2B (hex) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
C4A72B (base 16) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
Unit East Block22-24/F,Skyworth semiconductor design Bldg., Gaoxin Ave.4.S.,Nanshan District,Shenzhen,China
SHENZHEN GUANGDONG 518057

CN

D0-C3-1E (hex) JUNGJIN Electronics Co.,Ltd
D0C31E (base 16) JUNGJIN Electronics Co.,Ltd
41-11, Yangjipyeon-ro
Uiwang-si
Gyeonggi-do 16007
KR

5C-34-00 (hex) Hisense Electric Co.,Ltd
5C3400 (base 16) Hisense Electric Co.,Ltd
Qianwangang Road 218
Qingdao Shandong 266510
CN

D8-10-CB (hex) Andrea Informatique
D810CB (base 16) Andrea Informatique
30 Rue Jules Guesde
Paris 75014
FR

FC-19-28 (hex) Actions Microelectronics Co., Ltd
FC1928 (base 16) Actions Microelectronics Co., Ltd
201, No 9 Building, Software Park,Kejizhonger Rd.,
Shenzhen Gangdong 518057
CN

E0-91-3C (hex) Kyeungin CNS Co., Ltd.
E0913C (base 16) Kyeungin CNS Co., Ltd.
13, Gyeongin-ro, Sosa-gu
Bucheon-si Gyeonggi-do 14730
KR

D0-59-19 (hex) zte corporation
D05919 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

00-B8-81 (hex) New platforms LLC
00B881 (base 16) New platforms LLC
Varshavskoe shosse, 35, Bld. 1
Moscow 117105
RU

B0-98-BC (hex) Huawei
Device Co., Ltd.
B098BC (base 16) Huawei Device Co., Ltd.

No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

24-01-6F (hex) Huawei Device Co., Ltd.
24016F (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

84-E3-42 (hex) Tuya Smart Inc.
84E342 (base 16) Tuya Smart Inc.
FLAT/RM 806 BLK ? 8/F CHEUNG SHA WAN PLAZA 833 CHEUNG SHA WAN ROAD KL
hongkong Hong Kong 999077
CN

FC-CD-2F (hex) IEEE Registration Authority
FCCD2F (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

C0-3C-59 (hex) Intel Corporate
C03C59 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

4C-3B-DF (hex) Microsoft Corporation
4C3BDF (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

B4-31-61 (hex) Realme Chongqing Mobile Telecommunications
Corp.,Ltd.
B43161 (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

B4-FB-E3 (hex) AltoBeam (China) Inc.
B4FBE3 (base 16) AltoBeam (China) Inc.
B808, Tsinghua Tongfang Hi-Tech Plaza, Haidian
Beijing Beijing 100083
CN

18-87-40 (hex) Xiaomi Communications Co Ltd

188740 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

34-1C-F0 (hex) Xiaomi Communications Co Ltd
341CF0 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

5C-ED-8C (hex) Hewlett Packard Enterprise
5CED8C (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

30-AF-CE (hex) vivo Mobile Communication Co., Ltd.
30AFCE (base 16) vivo Mobile
Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

64-F9-47 (hex) Senscomm Semiconductor Co., Ltd.
64F947 (base 16) Senscomm Semiconductor Co., Ltd.
Room 303-309, 3rd Floor International Building, NO.2 Suzhou Avenue West
Suzhou Jiangsu 215000
CN

DC-00-B0 (hex) FREEBOX SAS
DC00B0 (base 16) FREEBOX SAS
16 rue de la Ville l'Eveque
PARIS IdF 75008
FR

70-74-14 (hex) Murata Manufacturing Co., Ltd.
707414 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

A0-76-4E (hex) Espressif Inc.
A0764E (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

CC-4F-5C (hex) IEEE Registration Authority
CC4F5C (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

FC-6D-D1 (hex) APRESIA Systems, Ltd.
FC6DD1 (base 16) APRESIA Systems,
Ltd.
Tsukuba Network Technical Center, Kidamari 3550
Tsuchiura-shi Ibaraki-ken 300-0026
JP

6C-09-BF (hex) Fiberhome Telecommunication Technologies Co.,LTD
6C09BF (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

10-D7-B0 (hex) Sagemcom Broadband SAS
10D7B0 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

44-59-43 (hex) zte corporation
445943 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

34-36-54 (hex) zte corporation
343654 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

C8-E6-00 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C8E600 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D4-D5-1B
(hex) HUAWEI TECHNOLOGIES CO.,LTD
D4D51B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808

CN

24-91-BB (hex) HUAWEI TECHNOLOGIES CO.,LTD
2491BB (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

64-5E-10 (hex) HUAWEI TECHNOLOGIES CO.,LTD
645E10 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

EC-F2-2B (hex) TECNO MOBILE LIMITED
ECF22B (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

30-96-10 (hex) Huawei Device Co., Ltd.
309610 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

30-57-8E
(hex) eero inc.
30578E (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

FC-B3-BC (hex) Intel Corporate
FCB3BC (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C8-16-DA (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
C816DA (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

B0-44-14 (hex) New H3C Technologies Co., Ltd
B04414 (base 16) New H3C Technologies Co., Ltd

466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

E4-5F-01 (hex) Raspberry Pi Trading Ltd
E45F01 (base 16) Raspberry Pi Trading Ltd
Maurice Wilkes Building, Cowley Road
Cambridge CB4 0DS
GB

74-8F-3C (hex) Apple, Inc.
748F3C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

40-F9-46 (hex) Apple, Inc.
40F946
(base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

1C-FE-2B (hex) Amazon Technologies Inc.
1CFE2B (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

A4-AE-12 (hex) Hon Hai Precision Industry Co., Ltd.
A4AE12 (base 16) Hon Hai Precision Industry Co., Ltd.
GuangDongShenZhen
ShenZhen GuangDong 518109
CN

9C-9D-7E (hex) Beijing Xiaomi Mobile Software Co., Ltd
9C9D7E (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

DC-A3-A2 (hex) Feng mi(Beijing)technology co., LTD
DCA3A2 (base 16) Feng mi(Beijing)technology co., LTD
RenHe Town barracks south street 10 yuan 33 level 301
shunyi district Beijing 101300
CN

EC-57-0D (hex) AFE Inc.

EC570D (base 16) AFE Inc.
11210 County Line Rd
Mount Pleasant WI 53177
US

7C-25-DA (hex) FN-LINK TECHNOLOGY
LIMITED
7C25DA (base 16) FN-LINK TECHNOLOGY LIMITED
A Building,HuiXin industial park,No 31, YongHe road, Fuyong town, Bao'an District
SHENZHEN GUANGDONG 518100
CN

30-59-B7 (hex) Microsoft
3059B7 (base 16) Microsoft
1 Microsoft Way
Redmond Washington 98052
US

74-12-B3 (hex) CHONGQING FUGUI ELECTRONICS CO.,LTD.
7412B3 (base 16) CHONGQING FUGUI ELECTRONICS CO.,LTD.
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

94-47-B0 (hex) BEIJING ESWIN COMPUTING TECHNOLOGY CO., LTD
9447B0 (base 16) BEIJING ESWIN COMPUTING TECHNOLOGY CO., LTD
Room 2179, Floor2,Block D, Building 33, Centralised Office Area, No.99, Kechuangshisi Road, BDA, Beijing
BEIJING BEIJING 100176
CN

E4-5A-D4 (hex) Eltex Enterprise Ltd.
E45AD4 (base 16) Eltex Enterprise Ltd.
Okruzhnaya st. 29v
Novosibirsk 630020
RU

44-A5-4E (hex) Qorvo International Pte. Ltd.
44A54E
(base 16) Qorvo International Pte. Ltd.
1 Changi Business Park Avenue 1
#04-01 486058
SG

A8-69-8C (hex) Oracle Corporation
A8698C (base 16) Oracle Corporation
500 Oracle Parkway
Redwood Shores CA 94065
US

A4-AC-0F (hex) Huawei Device Co., Ltd.
A4AC0F (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

CC-FF-90 (hex) Huawei Device Co., Ltd.
CCFF90 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

54-05-DB (hex) LCFC(HeFei) Electronics Technology co., ltd
5405DB (base 16) LCFC(HeFei) Electronics Technology co., ltd
YunGu Road 3188-1
Hefei Anhui 230000
CN

00-30-54 (hex) Castlenet Technology Inc.
003054 (base 16) Castlenet Technology Inc.
5F., No. 10, Daye Rd., Beitou Dist.
Taipei City 112030
TW

00-13-68 (hex) Saab Danmark A/S
001368 (base
16) Saab Danmark A/S
Alsion 2
Soenderborg DK 6400
DK

B0-30-C8 (hex) Teal Drones, Inc.
B030C8 (base 16) Teal Drones, Inc.
5200 South Highland Drive
Holladay UT 84117
US

D4-F3-37 (hex) Xunison Ltd.
D4F337 (base 16) Xunison Ltd.
25 Kilbarbery Business Park, Upper Nangor Road
Dublin 22 Co. Dublin D22 NH32
IE

48-A2-B8 (hex) Chengdu Vision-Zenith Tech.Co,.Ltd
48A2B8 (base 16) Chengdu Vision-Zenith Tech.Co,.Ltd
China (Sichuan) Free Trade Test Zone Chengdu Hi-tech Zone 300 Jiaozi Avenue 3 buildings 22
Chengdu Sichuan 610041

CN

58-E8-73 (hex) HANGZHOU DANGBEI NETWORK TECH.Co.,Ltd
58E873 (base 16) HANGZHOU DANGBEI NETWORK TECH.Co.,Ltd
Build C,Wanfu Center,Binkang Road No.228,Binjiang Area
China 210051
CN

A0-68-1C (hex) GD Midea Air-Conditioning Equipment Co.,Ltd.
A0681C (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
Midea Global Innovation Center,Beijiao Town,Shunde
Foshan
Guangdong 528311
CN

6C-44-2A (hex) HUAWEI TECHNOLOGIES CO.,LTD
6C442A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A4-7C-C9 (hex) HUAWEI TECHNOLOGIES CO.,LTD
A47CC9 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C4-0D-96 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C40D96 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

44-AF-28 (hex) Intel Corporate
44AF28 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

D4-A6-51 (hex) Tuya Smart Inc.
D4A651 (base 16) Tuya Smart Inc.
160 Greentree Drive, Suite 101
Dover DE 19904
US

84-22-5E (hex) SHENZHEN TECHNEWCHIP TECHNOLOGY CO.,LTD.
84225E (base 16) SHENZHEN TECHNEWCHIP TECHNOLOGY CO.,LTD.
XILI

STREET
SHENZHEN GUANGDONG 5180000
CN

F8-5C-7D (hex) Shenzhen Honesty Electronics Co.,Ltd.
F85C7D (base 16) Shenzhen Honesty Electronics Co.,Ltd.
5/F,Zone B,Chitat Industrial Park,West Longping Road, Longgang District,Shenzhen City
Shenzhen Guangdong 518172
CN

84-2A-FD (hex) HP Inc.
842AFD (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

C0-B8-E6 (hex) Ruijie Networks Co.,LTD
C0B8E6 (base 16) Ruijie Networks Co.,LTD
No. 2, 7th floor, xingwangruijie, haixi hi-tech industrial park, high-tech zone, fuzhou city
Fuzhou Fujian 350002
CN

90-F6-44 (hex) Huawei Device Co., Ltd.
90F644 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

A8-35-12 (hex) Huawei Device Co., Ltd.
A83512 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

DC-41-A9 (hex) Intel
Corporate
DC41A9 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

8C-94-1F (hex) Cisco Systems, Inc
8C941F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

68-7D-B4 (hex) Cisco Systems, Inc

687DB4 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

84-6B-48 (hex) ShenZhen EepuLink Co., Ltd.
846B48 (base 16) ShenZhen EepuLink Co., Ltd.
4th Floor, Building 3, Nangang 1st industrial zone, Xili street, Nanshan district,
ShenZhen Guangdong 518000
CN

B4-60-ED (hex) Beijing Xiaomi Mobile Software Co., Ltd
B460ED (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

30-CC-21 (hex) zte corporation
30CC21 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

64-6C-80
(hex) CHONGQING FUGUI ELECTRONICS CO.,LTD.
646C80 (base 16) CHONGQING FUGUI ELECTRONICS CO.,LTD.
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

00-30-0B (hex) mPHASE Technologies, Inc.
00300B (base 16) mPHASE Technologies, Inc.
250 14th Street
Atlanta GA 30318
US

C0-18-50 (hex) Quanta Computer Inc.
C01850 (base 16) Quanta Computer Inc.
No. 211, Wen-Hwa 2nd Rd.,Kuei-Shan Dist.
Taoyuan City Taiwan 33377
TW

44-27-F3 (hex) 70mai Co.,Ltd.
4427F3 (base 16) 70mai Co.,Ltd.
Room 2220, building 2, No. 588, Zixing road
Shanghai MinHang District 201100
CN

00-08-96 (hex) Printronix, Inc.
000896 (base 16) Printronix, Inc.
14600 Myford Rd.
Irvine California 92623-9559
US

00-25-DC (hex) Sumitomo Electric Industries, Ltd
0025DC (base 16) Sumitomo Electric Industries, Ltd
1-1-3, Shimaya, Konohana-ku
Osaka
554-0024
JP

04-7D-7B (hex) Quanta Computer Inc.
047D7B (base 16) Quanta Computer Inc.
NO. 211, WEN HWA 2RD.,KUEI SHAN HSIANG, TAO YUAN SHIEN,
TAIPEI TAIWAN 333
TW

08-9E-01 (hex) Quanta Computer Inc.
089E01 (base 16) Quanta Computer Inc.
No.211, Wen Hwa 2nd Rd
Taoyuan Taiwan 33377
TW

A8-1E-84 (hex) Quanta Computer Inc.
A81E84 (base 16) Quanta Computer Inc.
No.211, Wen Hwa 2nd Rd., Kuei Shan Hsiang
Tao Yuan 33377
TW

B4-6F-2D (hex) Wahoo Fitness
B46F2D (base 16) Wahoo Fitness
90 W Wieuca Rd, Suite 110
Atlanta GA 30342
US

BC-7F-7B (hex) Huawei Device Co., Ltd.
BC7F7B (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

F0-FA-C7 (hex) Huawei Device Co., Ltd.
F0FAC7 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

00-26-C0 (hex) EnergyHub
0026C0
(base 16) EnergyHub
232 3rd St C201
Brooklyn NY 11215
US

80-EA-CA (hex) Dialog Semiconductor Hellas SA
80EACA (base 16) Dialog Semiconductor Hellas SA
Leoforos Syggrou 143
Athens Attiki 17121
GR

5C-85-7E (hex) IEEE Registration Authority
5C857E (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

88-03-E9 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
8803E9 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

0C-DC-7E (hex) Espressif Inc.
0CDC7E (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

20-98-D8 (hex) Shenzhen Yingdakang Technology CO., LTD
2098D8 (base 16) Shenzhen Yingdakang Technology CO., LTD
8004,Building 51,Block 2,Shangtang Songzi Park, MinZhi St., Longhua Dist
Shenzhen 518055
CN

18-26-49
(hex) Intel Corporate
182649 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

A0-CF-F5 (hex) zte corporation
A0CFF5 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China

shenzhen guangdong 518057
CN

98-B3-EF (hex) Huawei Device Co., Ltd.
98B3EF (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

50-F9-58 (hex) Huawei Device Co., Ltd.
50F958 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C0-A3-6E (hex) SKY UK LIMITED
C0A36E (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

34-C9-3D (hex) Intel Corporate
34C93D (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

1C-01-2D (hex) Ficer Technology
1C012D (base 16) Ficer Technology
2F, No.138, Daye
Rd., Beitou Dist.,
Taipei City 11268
TW

3C-A6-2F (hex) AVM Audiovisuelles Marketing und Computersysteme GmbH
3CA62F (base 16) AVM Audiovisuelles Marketing und Computersysteme GmbH
Alt-Moabit 95
Berlin Berlin 10559
DE

00-05-C9 (hex) LG Innotek
0005C9 (base 16) LG Innotek
LG Component R&D Center
Ansan-si Gyeonggi-do 426-791
KR

AC-F1-08 (hex) LG Innotek
ACF108 (base 16) LG Innotek

26, Hanamsandan 5beon-ro
Gwangju Gwangsan-gu 506-731
KR

E4-1F-7B (hex) Cisco Systems, Inc
E41F7B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

60-32-B1 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
6032B1 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

7C-FD-6B (hex) Xiaomi Communications Co Ltd
7CFD6B (base 16) Xiaomi Communications Co Ltd
#019,
9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

7C-C7-7E (hex) Fiberhome Telecommunication Technologies Co.,LTD
7CC77E (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

34-58-40 (hex) HUAWEI TECHNOLOGIES CO.,LTD
345840 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

5C-64-7A (hex) HUAWEI TECHNOLOGIES CO.,LTD
5C647A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

DC-EF-80 (hex) HUAWEI TECHNOLOGIES CO.,LTD
DCEF80 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

30-49-50 (hex) IEEE Registration Authority

304950 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

20-9E-79
(hex) Universal Electronics, Inc.
209E79 (base 16) Universal Electronics, Inc.
201 E. Sandpointe Ave
Santa Ana CA 92707
US

08-ED-9D (hex) TECNO MOBILE LIMITED
08ED9D (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

FC-14-99 (hex) Aimore Acoustics Incorporation
FC1499 (base 16) Aimore Acoustics Incorporation
16F,Tianliao Building(New Material industrial Park), Xueyuan Avenue, Nanshan District
Shenzhen Guangdong 518055
CN

88-94-8F (hex) Xi'an Zhisensor Technologies Co.,Ltd
88948F (base 16) Xi'an Zhisensor Technologies Co.,Ltd
No.52 Jinye 1st Road Xi'an,Shaanxi,China
Xi an Xi an High-Tech Zone 710077
CN

5C-D5-B5 (hex) Shenzhen WiSiYiLink Technology Co.,Ltd
5CD5B5 (base 16) Shenzhen WiSiYiLink Technology Co.,Ltd
Building a 3, huafengzhigu
Yuanshan hi tech Industrial Park, No.62, Yinhe Road, he'ao community, Yuanshan street, Longgang District
Shenzhen 518100
CN

AC-5F-EA (hex) OnePlus Technology (Shenzhen) Co., Ltd
AC5FEA (base 16) OnePlus Technology (Shenzhen) Co., Ltd
18C02, 18C03, 18C04 ,18C05,TAIRAN BUILDING,
Shenzhen Guangdong 518000
CN

00-BE-D5 (hex) New H3C Technologies Co., Ltd
00BED5 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052

CN

E8-6D-CB (hex) Samsung Electronics Co.,Ltd
E86DCB (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

18-95-52 (hex) 1MORE
189552 (base 16) 1MORE
TianliaoBuilding F14, New Materials Industrial Park, Xueyuan Blvd?Nanshan
Shenzhen Guangdong 518055
CN

98-C7-A4 (hex) Shenzhen HS Fiber Communication Equipment CO., LTD
98C7A4 (base 16) Shenzhen HS Fiber Communication Equipment CO., LTD
6F,
Bld#A, Dezhong Industrial Park, Yangmei Village, Bantian Town, Longgang District
Shenzhen Guangdong 518129
CN

04-4A-C6 (hex) Aipon Electronics Co., Ltd
044AC6 (base 16) Aipon Electronics Co., Ltd
#78, Qiaojiao Dong road, Qiaolong, Tangxia Town
Dongguan City Guangdong Province 523-710
CN

C0-FF-A8 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C0FFA8 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C8-7E-A1 (hex) TCL MOKA International Limited
C87EA1 (base 16) TCL MOKA International Limited
7/F, Building 22E 22 Science Park East Avenue
Hong Kong 999077
HK

64-2C-0F (hex) vivo Mobile Communication Co., Ltd.
642C0F (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

30-66-D0 (hex) Huawei Device Co., Ltd.
3066D0 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan

Lake Zone
Dongguan Guangdong 523808
CN

3C-B2-33 (hex) Huawei Device Co., Ltd.
3CB233 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

CC-C2-61 (hex) IEEE Registration Authority
CCC261 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

5C-FE-9E (hex) Wiwynn Corporation Tainan Branch
5CFE9E (base 16) Wiwynn Corporation Tainan Branch
4F, NO. 8, Beiyuan 3rd Rd., Anding Dist.,
Tainan 745
TW

88-1C-95 (hex) ITEL MOBILE LIMITED
881C95 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

00-20-03 (hex) PIXEL POWER LTD.
002003 (base 16) PIXEL POWER LTD.
Unit 5 College Business Park
CAMBRIDGE CB1 3HD
GB

F0-2E-51 (hex) Casa Systems
F02E51 (base 16) Casa Systems
18-20 Orion Road Lane Cove West
LANE
COVE NSW 2066
AU

F4-69-42 (hex) ASKEY COMPUTER CORP
F46942 (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585
TW

08-E9-F6 (hex) AMPAK Technology,Inc.

08E9F6 (base 16) AMPAK Technology,Inc.
3F, No.15-1 Zhonghua Road, Hsinchu Industrail Park, Hukou,
Hsinchu Hsinchu,Taiwan R.O.C. 30352
TW

C8-E4-2F (hex) Technical Research Design and Development
C8E42F (base 16) Technical Research Design and Development
186 Lincoln street
Boston MA 02111
US

68-0A-E2 (hex) Silicon Laboratories
680AE2 (base 16) Silicon Laboratories
7000 W. William Cannon Dr.
Austin TX 78735
US

24-14-07 (hex) Xiamen Sigmastar Technology Ltd.
241407 (base 16) Xiamen Sigmastar Technology Ltd.
15th Floor ,Unit A,Chuangxin Building, Software Park, Xiamen Torch Hi-Tech Industrial Development Zone, Xiamen,China
Xiamen Fujian 361005
CN

B4-79-47 (hex) Nutanix
B47947
(base 16) Nutanix
1740 Technology Drive Ste #150
San Jose CA 95110
US

04-F8-F8 (hex) Edgecore Networks Corporation
04F8F8 (base 16) Edgecore Networks Corporation
1 Creation RD 3.
Hsinchu 30077
TW

64-0B-D7 (hex) Apple, Inc.
640BD7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A8-91-3D (hex) Apple, Inc.
A8913D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

0C-3B-50 (hex) Apple, Inc.
0C3B50 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

4C-C9-5E (hex) Samsung Electronics Co.,Ltd
4CC95E (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

5C-91-57 (hex) HUAWEI TECHNOLOGIES CO.,LTD
5C9157 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

04-CB-88 (hex) Shenzhen Jingxun Software
Telecommunication Technology Co.,Ltd
04CB88 (base 16) Shenzhen Jingxun Software Telecommunication Technology Co.,Ltd
3/F,A5 Building Zhiyuan Community No.1001,Xueyuan Road Nanshan District
Shenzhen Guangdong 518055
CN

FC-A5-D0 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
FCA5D0 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

34-7D-F6 (hex) Intel Corporate
347DF6 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C8-5B-A0 (hex) Shenzhen Qihu Intelligent Technology Company Limited
C85BA0 (base 16) Shenzhen Qihu Intelligent Technology Company Limited
Room 201, Block A, No.1, Qianwan Road 1,Qianhai Shenzhen HongKong Modern Service Industry Cooperation Zone
Shenzhen Guangdong 518057
CN

E0-BE-03 (hex) Lite-On Network Communication (Dongguan) Limited
E0BE03 (base 16) Lite-On Network Communication (Dongguan)

Limited
30#Keji Rd,YinHu Industrial Area,Qingxi Town Dongguan City,Guang Dong China
Dongguan Guang Dong 523648
CN

A4-88-73 (hex) Cisco Systems, Inc
A48873 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

98-CB-A4 (hex) Benchmark Electronics
98CBA4 (base 16) Benchmark Electronics
Free Industrial Zone, Phase 1,
Bayan Lepas Penang 11900
MY

B4-62-93 (hex) Samsung Electronics Co.,Ltd
B46293 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-0D-A1 (hex) MIRAE ITS Co.,LTD.
000DA1 (base 16) MIRAE ITS Co.,LTD.
7F, ChangHyun B/D,960-1,HoGye1Dong
AnYang KyongiGiDo 431-840
KR

CC-D9-AC (hex) Intel Corporate
CCD9AC (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

B8-80-4F (hex) Texas Instruments
B8804F (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

00-0F-2D
(hex) CHUNG-HSIN ELECTRIC & MACHINERY MFG.CORP.
000F2D (base 16) CHUNG-HSIN ELECTRIC & MACHINERY MFG.CORP.
NO. 25, Wen-Te Rd., Lo-Shan Village
Kwei Shan Hsiang Taoyuan Hsien 330
TW

18-3C-B7 (hex) Huawei Device Co., Ltd.
183CB7 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

5C-90-12 (hex) Owl Cyber Defense Solutions, LLC
5C9012 (base 16) Owl Cyber Defense Solutions, LLC
38A Grove Street
Ridgefield CT 06877
US

48-16-93 (hex) Lear Corporation GmbH
481693 (base 16) Lear Corporation GmbH
Industriestrasse 48
Kronach Bavaria 96317
DE

A4-BD-C4 (hex) HUAWEI TECHNOLOGIES CO.,LTD
A4BDC4 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

38-F7-CD (hex) IEEE Registration Authority
38F7CD (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway
NJ 08554
US

9C-29-76 (hex) Intel Corporate
9C2976 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

18-F6-97 (hex) Axiom Memory Solutions, Inc.
18F697 (base 16) Axiom Memory Solutions, Inc.
8619 Wall Street Bldg 4, Suite 400
Austin TX 78754-4591
US

5C-6B-D7 (hex) Foshan VIOMI Electric Appliance Technology Co. Ltd.
5C6BD7 (base 16) Foshan VIOMI Electric Appliance Technology Co. Ltd.
No.2 North Xinxi Fourth Road, Xiashi Village Committee,Lunjiao Sub-district Office, Shunde District
Foshan Guandong 528308
CN

18-48-CA (hex) Murata Manufacturing Co., Ltd.
1848CA (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

CC-0D-F2 (hex) Motorola Mobility LLC, a Lenovo Company
CC0DF2 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

94-43-4D (hex) Ciena
Corporation
94434D (base 16) Ciena Corporation
7035 Ridge Road
Hanover MD 21076
US

00-01-CD (hex) ARtem
0001CD (base 16) ARtem
Olgastraße 152

DE

58-A8-7B (hex) Fitbit, Inc.
58A87B (base 16) Fitbit, Inc.
199 Fremont Street, 14th Fl
San Francisco CA 94105
US

C4-89-ED (hex) Solid Optics EU N.V.
C489ED (base 16) Solid Optics EU N.V.
De Huchtstraat 35
Almere Flevoland 1327 EC
NL

48-8F-5A (hex) Routerboard.com
488F5A (base 16) Routerboard.com
Mikrotikls SIA
Riga Riga LV1009
LV

10-06-45 (hex) Sagemcom Broadband SAS
100645 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848

FR

A0-27-B6 (hex) Samsung Electronics Co.,Ltd
A027B6 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

10-39-17 (hex) Samsung Electronics Co.,Ltd
103917 (base 16) Samsung Electronics
Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

98-80-EE (hex) Samsung Electronics Co.,Ltd
9880EE (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

90-EE-C7 (hex) Samsung Electronics Co.,Ltd
90EEC7 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

10-29-AB (hex) Samsung Electronics Co.,Ltd
1029AB (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

18-4E-CB (hex) Samsung Electronics Co.,Ltd
184ECB (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

80-22-A7 (hex) NEC Platforms, Ltd.
8022A7 (base 16) NEC Platforms, Ltd.
2-3 Kandatsukasamachi
Chiyodaku Tokyo 101-8532
JP

5C-23-16 (hex) Squirrels Research Labs LLC
5C2316 (base 16) Squirrels Research Labs LLC
8050 Freedom Ave NW Suite B

North Canton OH 44720
US

AC-67-B2
(hex) Espressif Inc.
AC67B2 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

98-59-49 (hex) LUXOTTICA GROUP S.P.A.
985949 (base 16) LUXOTTICA GROUP S.P.A.
Piazzale Cadrona, 3
Milano MI 20132
IT

64-E1-72 (hex) Shenzhen Qihoo Intelligent Technology Co.,Ltd
64E172 (base 16) Shenzhen Qihoo Intelligent Technology Co.,Ltd
Room 201,Block A.No.1,Qianwan Road1 Qianhai Shenzhen-HONGKONG Cooperation Zone
Shenzhen Guangdong 5181000
CN

C4-D8-F3 (hex) iZotope
C4D8F3 (base 16) iZotope
60 Hampshire St
Cambridge MA 02139
US

A8-40-25 (hex) Oxide Computer Company
A84025 (base 16) Oxide Computer Company
1251 Park Avenue
Emeryville CA 94608
US

64-E8-81 (hex) Aruba, a Hewlett Packard Enterprise Company
64E881 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

60-F4-3A
(hex) Edifier International
60F43A (base 16) Edifier International
Suit 2207, 22nd floor, Tower II, Lippo centre, 89 Queensway
Hong Kong 070
CN

FC-B6-98 (hex) Cambridge Industries(Group) Co.,Ltd.

FCB698 (base 16) Cambridge Industries(Group) Co.,Ltd.
22 Floor,Qilai Tower;889 Yishan Road
Shanghai CHINA 200233
CN

04-21-44 (hex) Sunitec Enterprise Co.,Ltd
042144 (base 16) Sunitec Enterprise Co.,Ltd
3F.,No.98-1,Mincyuan Rd.Sindian City
Taipei County 231 231141
CN

4C-33-29 (hex) Sweroam
4C3329 (base 16) Sweroam
Stortorget 16
Orebro N/A 70211
SE

78-2B-46 (hex) Intel Corporate
782B46 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

78-57-73 (hex) HUAWEI TECHNOLOGIES CO.,LTD
785773 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

AC-60-89 (hex) HUAWEI TECHNOLOGIES
CO.,LTD
AC6089 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

84-3E-92 (hex) HUAWEI TECHNOLOGIES CO.,LTD
843E92 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

70-8C-B6 (hex) HUAWEI TECHNOLOGIES CO.,LTD
708CB6 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

50-46-4A (hex) HUAWEI TECHNOLOGIES CO.,LTD
50464A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C4-A4-02 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C4A402 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

68-33-2C (hex) KENSTEL NETWORKS LIMITED
68332C (base 16) KENSTEL NETWORKS
LIMITED
34D SECTOR 57 HSIIDC INDUSTRIAL AREA PHASE 4
KUNDLI HARYANA 131028
IN

9C-BD-6E (hex) DERA Co., Ltd
9CBD6E (base 16) DERA Co., Ltd
Zhichun road NO7 Building B Room1203 Haidian District
Beijing 100191
CN

9C-28-BF (hex) Continental Automotive Czech Republic s.r.o.
9C28BF (base 16) Continental Automotive Czech Republic s.r.o.
Prmyslová 1851
Brandýs nad Labem 250 01
CZ

00-06-B3 (hex) Diagraph Corporation
0006B3 (base 16) Diagraph Corporation
3401 Rider Trail South
Earth City MO 63045-1110
US

D8-78-7F (hex) Ubee Interactive Co., Limited
D8787F (base 16) Ubee Interactive Co., Limited
Flat/RM 1202, 12/F, AT Tower, 180 Electric Road
North Point 00000
HK

DC-33-3D (hex) Huawei Device Co., Ltd.
DC333D (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

28-54-71 (hex) Huawei Device Co., Ltd.
285471
(base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

B8-8E-82 (hex) Huawei Device Co., Ltd.
B88E82 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

34-E5-EC (hex) Palo Alto Networks
34E5EC (base 16) Palo Alto Networks
3000 Tannery Way
Santa Clara CA 95054
US

08-87-C6 (hex) INGRAM MICRO SERVICES
0887C6 (base 16) INGRAM MICRO SERVICES
100 CHEMIN DE BAILLOT
MONTAUBAN 82000
FR

D4-D2-D6 (hex) FN-LINK TECHNOLOGY LIMITED
D4D2D6 (base 16) FN-LINK TECHNOLOGY LIMITED
A Building,HuiXin industial park,No 31, YongHe road, Fuyong town, Bao'an District
SHENZHEN GUANGDONG 518100
CN

10-50-72 (hex) Sercomm Corporation.
105072 (base 16) Sercomm Corporation.
3F,No.81,Yu-Yih Rd.,Chu-Nan Chen
Miao-Lih Hsuan 115
TW

98-FA-A7 (hex) INNONET
98FAA7 (base 16) INNONET
C-417,
Munjeong Hyundai Knowledge Industry Center, Beobwon-ro 11-gil-7
Songpa-gu Seoul 05836
KR

08-6B-D1 (hex) Shenzhen SuperElectron Technology Co.,Ltd.
086BD1 (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city

Shenzhen Guangdong 518000
CN

90-5D-7C (hex) New H3C Technologies Co., Ltd
905D7C (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

3C-B5-3D (hex) HUNAN GOKE MICROELECTRONICS CO.,LTD
3CB53D (base 16) HUNAN GOKE MICROELECTRONICS CO.,LTD
No.9, East 10th Road(South), Xingsha, Changsha
Changsha HUNAN 410131
CN

AC-3A-67 (hex) Cisco Systems, Inc
AC3A67 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-B7-A8 (hex) Heinzinger electronic GmbH
00B7A8 (base 16) Heinzinger electronic GmbH
Anton Jakob
Str.4
Rosenheim BY 83026
DE

34-CF-F6 (hex) Intel Corporate
34CFF6 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

B8-E3-B1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B8E3B1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

98-0D-51 (hex) Huawei Device Co., Ltd.
980D51 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

00-AD-D5 (hex) Huawei Device Co., Ltd.
00ADD5 (base 16) Huawei Device Co., Ltd.

No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

EC-79-49 (hex) FUJITSU LIMITED
EC7949 (base 16) FUJITSU LIMITED
403, Kosugi-cho 1-chome, Nakahara-ku
Kawasaki Kanagawa 211-0063
JP

AC-4A-67 (hex) Cisco Systems, Inc
AC4A67 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

90-0A-84
(hex) Mellanox Technologies, Inc.
900A84 (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway, Suite 100
Sunnyvale CA 94085
US

70-CA-97 (hex) Ruckus Wireless
70CA97 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

34-51-80 (hex) TCL King Electrical Appliances (Huizhou) Co., Ltd
345180 (base 16) TCL King Electrical Appliances (Huizhou) Co., Ltd
10F, TCL Multimedia Building, TCL International E City, No.1001 Zhongshanyuan Rd., Nanshan District
Shenzhen Guangdong 518052
CN

6C-D9-4C (hex) vivo Mobile Communication Co., Ltd.
6CD94C (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

AC-1E-D0 (hex) Temic Automotive Philippines Inc.
AC1ED0 (base 16) Temic Automotive Philippines Inc.
Bagsakan Road, FTI estate
Taguig 1630
PH

00-88-BA (hex) NC&C

0088BA (base 16) NC&C
Gurogu
Seoul
08390
KR

4C-A6-4D (hex) Cisco Systems, Inc
4CA64D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

40-2B-69 (hex) Kumho Electric Inc.
402B69 (base 16) Kumho Electric Inc.
309, Bongmu-ro, Namsa-myeon, Cheoin-gu
Yongin-si Gyeonggi-do 17118
KR

A4-08-01 (hex) Amazon Technologies Inc.
A40801 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

A8-A0-97 (hex) ScioTeq bvba
A8A097 (base 16) ScioTeq bvba
President Kennedypark 35A
Kortrijk 8500
BE

F4-73-35 (hex) Logitech Far East
F47335 (base 16) Logitech Far East
#2 Creation Rd. 4,
Hsinchu 300
TW

90-AD-FC (hex) Telechips, Inc.
90ADFC (base 16) Telechips, Inc.
19F~23F,Luther Bldg.42, Olympic-ro 35da-gil, Songpa-gu,
Seoul Seoul 05510
KR

BC-16-95 (hex) zte corporation
BC1695 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen
guangdong 518057
CN

A4-CF-D2 (hex) Ubee Interactive Co., Limited
A4CFD2 (base 16) Ubee Interactive Co., Limited
Flat/RM 1202, 12/F, AT Tower, 180 Electric Road
North Point 00000
HK

E8-E9-8E (hex) SOLAR controls s.r.o.
E8E98E (base 16) SOLAR controls s.r.o.
Brojova 25
Plzen 32600
CZ

64-F6-BB (hex) Fibocom Wireless Inc.
64F6BB (base 16) Fibocom Wireless Inc.
5/F,TowerA,Technology Building 2,1057 Nanhai Blvd, Nanshan
Shenzhen 518000 Guangdong
CN

5C-A6-2D (hex) Cisco Systems, Inc
5CA62D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

EC-97-B2 (hex) SUMEC Machinery & Electric Co.,Ltd.
EC97B2 (base 16) SUMEC Machinery & Electric Co.,Ltd.
198# ChangJiang Road, XuanWu District, 17F, SUMEC Building
Nanjing JiangSu 210018
CN

28-FA-7A (hex) Zhejiang Tmall Technology Co., Ltd.
28FA7A (base 16) Zhejiang Tmall Technology Co., Ltd.
Ali
Center,No.3331 Keyuan South RD (Shenzhen bay), Nanshan District, Shenzhen Guangdong province
Shenzhen GuangDong 518000
CN

10-05-E1 (hex) Nokia
1005E1 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

BC-54-2F (hex) Intel Corporate
BC542F (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000

MY

84-2E-14 (hex) Silicon Laboratories
842E14 (base 16) Silicon Laboratories
7000 W. William Cannon Dr.
Austin TX 78735
US

00-20-E1 (hex) ALAMAR ELECTRONICS
0020E1 (base 16) ALAMAR ELECTRONICS
489 DIVISION STREET
CAMPBELL CA 95008
US

08-F4-58 (hex) Huawei Device Co., Ltd.
08F458 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

34-37-94 (hex) Hamee Corp.
343794 (base 16) Hamee Corp.
Square O2 2-12-10 Sakae-cho
Odawara Kanagawa 250-0011
JP

5C-BA-2C (hex) Hewlett Packard Enterprise
5CBA2C
(base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

D4-DC-09 (hex) Mist Systems, Inc.
D4DC09 (base 16) Mist Systems, Inc.
1601 South De Anza Blvd, Suite 248
Cupertino CA 95014
US

44-10-FE (hex) Huizhou Foryou General Electronics Co., Ltd.
4410FE (base 16) Huizhou Foryou General Electronics Co., Ltd.
North Shangxia Road, Dongjiang Hi-tech Industry Park
Huizhou Guangdong 516000
CN

EC-31-6D (hex) Hansgrohe
EC316D (base 16) Hansgrohe
Auestraße 5-9

Schiltach 77761
DE

CC-7F-75 (hex) Cisco Systems, Inc
CC7F75 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

20-E8-74 (hex) Apple, Inc.
20E874 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D0-3F-AA (hex) Apple, Inc.
D03FAA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

7C-AB-60 (hex) Apple, Inc.
7CAB60
(base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

44-C6-5D (hex) Apple, Inc.
44C65D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

40-EC-99 (hex) Intel Corporate
40EC99 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

F4-A4-D6 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F4A4D6 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

18-7E-B9 (hex) Apple, Inc.
187EB9 (base 16) Apple, Inc.

1 Infinite Loop
Cupertino CA 95014
US

1C-97-C5 (hex) Ynomia Pty Ltd
1C97C5 (base 16) Ynomia Pty Ltd
153 Tooronga Rd
Glen Iris 3146
AU

5C-C1-D7 (hex) Samsung Electronics Co.,Ltd
5CC1D7 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

38-01-46 (hex) SHENZHEN BILIAN ELECTRONIC CO.LTD
380146 (base
16) SHENZHEN BILIAN ELECTRONIC CO.LTD
NO.268? Fuqian Rd, Jutang community, Guanlan Town, Longhua New district
shenzhen guangdong 518000
CN

2C-57-41 (hex) Cisco Systems, Inc
2C5741 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

B0-B3-53 (hex) IEEE Registration Authority
B0B353 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

48-4E-FC (hex) ARRIS Group, Inc.
484EFC (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

1C-91-9D (hex) Dongguan Liesheng Electronic Co., Ltd.
1C919D (base 16) Dongguan Liesheng Electronic Co., Ltd.
F5, Building B, North Block, Gaosheng Tech Park, No. 84 Zhongli Road, Nancheng District, Dongguan Ci
dongguan guangdong 523000
CN

20-11-4E (hex) MeteRSit S.R.L.

20114E (base 16) MeteRSit S.R.L.
Viale dell'Industria 31
Padova 35129
IT

FC-F2-9F (hex) China Mobile
Iot Limited company
FCF29F (base 16) China Mobile Iot Limited company
No. 8 Yangliu North Road, Yubei District, Chongqing, China
Chong Qing Chong Qing 401120
CN

F8-1F-32 (hex) Motorola Mobility LLC, a Lenovo Company
F81F32 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

A8-7E-EA (hex) Intel Corporate
A87EEA (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

B0-0A-D5 (hex) zte corporation
B00AD5 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

A8-4D-4A (hex) Audiowise Technology Inc.
A84D4A (base 16) Audiowise Technology Inc.
2F, No 1-1, Innovation RD I, Hsinchu Science Park
Hsincu Taiwan 30076
TW

74-B6-B6 (hex) eero inc.
74B6B6 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

7C-DF-A1 (hex) Espressif Inc.
7CDFA1
(base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

98-00-6A (hex) zte corporation
98006A (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

78-94-E8 (hex) Radio Bridge
7894E8 (base 16) Radio Bridge
8601 73rd Ave N, Suite 38
Brooklyn Park MN 55428
US

54-7F-BC (hex) iodyne
547FBC (base 16) iodyne
35 Miller Ave #175
Mill Valley CA 94941
US

FC-E1-4F (hex) BRK Brands, Inc.
FCE14F (base 16) BRK Brands, Inc.
3901 Liberty Street
Aurora IL 60504
US

88-96-55 (hex) Zitte corporation
889655 (base 16) Zitte corporation
4F Yokohama Kusunoki-cho Building,4-7 Kusunoki-cho,Nishi-ku
Yokohama Kanagawa 2200003
JP

18-30-0C (hex) Hisense Electric Co.,Ltd
18300C (base 16) Hisense Electric Co.,Ltd
Qianwangang Roard 218
Qingdao Shandong 266510
CN

44-A5-6E
(hex) NETGEAR
44A56E (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

5C-27-D4 (hex) Shenzhen Qihu Intelligent Technology Company Limited
5C27D4 (base 16) Shenzhen Qihu Intelligent Technology Company Limited
Room 201, Block A, No.1, Qianwan Road 1,Qianhai Shenzhen HongKong Modern Service Industry Cooperation Zone

Shenzhen Guangdong 518057
CN

74-D8-3E (hex) Intel Corporate
74D83E (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

88-B6-EE (hex) Dish Technologies Corp
88B6EE (base 16) Dish Technologies Corp
94 Inverness Terrace E
Englewood CO 80112
US

3C-28-A6 (hex) Alcatel-Lucent Enterprise (China)
3C28A6 (base 16) Alcatel-Lucent Enterprise (China)
2/F, Building 1, No.60 Naxian Road,Pudong
Shanghai Shanghai 201210
CN

50-50-A4 (hex) Samsung Electronics Co.,Ltd
5050A4 (base 16) Samsung Electronics Co.,Ltd
#94-1,
Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

08-F8-BC (hex) Apple, Inc.
08F8BC (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

90-A2-5B (hex) Apple, Inc.
90A25B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

88-A4-79 (hex) Apple, Inc.
88A479 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

04-72-95 (hex) Apple, Inc.
047295 (base 16) Apple, Inc.

1 Infinite Loop
Cupertino CA 95014
US

D4-46-E1 (hex) Apple, Inc.
D446E1 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

14-14-59 (hex) Vodafone Italia S.p.A.
141459 (base 16) Vodafone Italia S.p.A.
Via Lorenteggio nr. 240
Milan Italy 20147
IT

50-43-B9 (hex) OktoInform RUS
5043B9 (base 16) OktoInform RUS
Bolshoy Tishinskiy pereulok, d. 26, korp.13-14, ofis 4R
Moscow 123557
RU

88-54-1F (hex) Google, Inc.
88541F (base 16) Google,
Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

90-0C-C8 (hex) Google, Inc.
900CC8 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

00-10-4F (hex) Oracle Corporation
00104F (base 16) Oracle Corporation
500 Oracle Parkway
Redwood Shores CA 94065
US

08-D2-3E (hex) Intel Corporate
08D23E (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

48-7B-5E (hex) SMT TELECOMM HK

487B5E (base 16) SMT TELECOMM HK
Unit C 8/F Charmhill Centre 50 Hillwood RD.
Tsim Sha Tsui Kowloon 999077
HK

00-25-A9 (hex) Shanghai Embedway Information Technologies Co.,Ltd
0025A9 (base 16) Shanghai Embedway Information Technologies Co.,Ltd
2F,Building 9,Lujiazui Software Park, No.20,Lane 91,E'Shan Road
Shanghai 200127
CN

68-21-5F (hex) Edgecore Networks Corporation
68215F (base 16) Edgecore Networks Corporation
1 Creation
RD 3.
Hsinchu 30077
TW

3C-BF-60 (hex) Apple, Inc.
3CBF60 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

AC-15-F4 (hex) Apple, Inc.
AC15F4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

78-D1-62 (hex) Apple, Inc.
78D162 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

44-C7-FC (hex) Huawei Device Co., Ltd.
44C7FC (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

78-85-F4 (hex) Huawei Device Co., Ltd.
7885F4 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

80-86-D9 (hex) Samsung Electronics Co.,Ltd
8086D9 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

38-6A-77 (hex) Samsung Electronics Co.,Ltd
386A77 (base 16) Samsung Electronics Co.,Ltd
#94-1,
Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-B8-10 (hex) Yichip Microelectronics (Hangzhou) Co.,Ltd
00B810 (base 16) Yichip Microelectronics (Hangzhou) Co.,Ltd
Room 401, Building 15, No.498 Guoshoujing Road, Pudong Software Park
Shanghai 200120
CN

A4-B2-39 (hex) Cisco Systems, Inc
A4B239 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

54-8D-5A (hex) Intel Corporate
548D5A (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

F4-49-55 (hex) MIMO TECH Co., Ltd.
F44955 (base 16) MIMO TECH Co., Ltd.
21F.-6, No. 7, Sec. 3, New Taipei Blvd., Xinzhuang Dist.,
New Taipei City Taiwan 24250
TW

08-09-C7 (hex) Zhuhai Unitech Power Technology Co., Ltd.
0809C7 (base 16) Zhuhai Unitech Power Technology Co., Ltd.
102, Yinhua Road
Zhuhai Guangdong 519000
CN

58-96-1D (hex) Intel Corporate
58961D (base 16) Intel Corporate
Lot 8, Jalan
Hi-Tech 2/3
Kulim Kedah 09000

MY

68-AF-FF (hex) Shanghai Cambricon Information Technology Co., Ltd.
68AFFF (base 16) Shanghai Cambricon Information Technology Co., Ltd.
888 West Huanhu Road No.2, Nanhui New Town, Pudong New Area
Shanghai Shanghai 200000
CN

D0-1C-3C (hex) TECNO MOBILE LIMITED
D01C3C (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

04-1D-C7 (hex) zte corporation
041DC7 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

00-1A-4D (hex) GIGA-BYTE TECHNOLOGY CO.,LTD.
001A4D (base 16) GIGA-BYTE TECHNOLOGY CO.,LTD.
Pin-Jen City, Taoyuan, Taiwan, R.O.C.
Pin-Jen Taoyuan 324
TW

00-1F-D0 (hex) GIGA-BYTE TECHNOLOGY CO.,LTD.
001FD0 (base 16) GIGA-BYTE TECHNOLOGY CO.,LTD.
Pin-Jen
City, Taoyuan, Taiwan, R.O.C.
Pin-Jen Taoyuan 324
TW

B8-9A-2A (hex) Intel Corporate
B89A2A (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

DC-21-E2 (hex) HUAWEI TECHNOLOGIES CO.,LTD
DC21E2 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

FC-1B-D1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
FC1BD1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD

No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

58-25-75 (hex) HUAWEI TECHNOLOGIES CO.,LTD
582575 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

28-DE-E5 (hex) HUAWEI TECHNOLOGIES CO.,LTD
28DEE5 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

18-C0-4D (hex) GIGA-BYTE TECHNOLOGY
CO.,LTD.
18C04D (base 16) GIGA-BYTE TECHNOLOGY CO.,LTD.
Pin-Jen City, Taoyuan, Taiwan, R.O.C.
Pin-Jen Taoyuan 324
TW

40-2C-76 (hex) IEEE Registration Authority
402C76 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

80-C9-55 (hex) Redpine Signals, Inc.
80C955 (base 16) Redpine Signals, Inc.
Plot 87, Sagar Society
Hyderabad AP 500034
IN

5C-68-D0 (hex) Aurora Innovation Inc.
5C68D0 (base 16) Aurora Innovation Inc.
1880 Embarcadero Rd.
Palo Alto CA 94303
US

10-36-4A (hex) Boston Dynamics
10364A (base 16) Boston Dynamics
78 4TH AVE
Waltham MA 02451
US

8C-AA-B5 (hex) Espressif Inc.

8CAAB5 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

00-0B-CC (hex) JUSAN, S.A.
000BCC (base 16) JUSAN, S.A.
Vivero, 5
MADRID 28040
ES

00-E0-59 (hex) CONTROLLED ENVIRONMENTS,
LTD.
00E059 (base 16) CONTROLLED ENVIRONMENTS, LTD.
590 BERRY STREET
WINNEPEG R3H OR9
CA

0C-8E-29 (hex) Arcadyan Corporation
0C8E29 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

A0-22-4E (hex) IEEE Registration Authority
A0224E (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

C4-98-78 (hex) SHANGHAI MOAAN INTELLIGENT TECHNOLOGY CO.,LTD
C49878 (base 16) SHANGHAI MOAAN INTELLIGENT TECHNOLOGY CO.,LTD
BLOCK B, 4TH FLOOR, BUILDING 2, NO. 401 CAOBAO ROAD, XUHUI DISTRICT, SHANGHAI
SHANGHAI 200030
CN

00-0A-23 (hex) Parama Networks Inc
000A23 (base 16) Parama Networks Inc
1955 The Alameda
San Jose CA 95126
US

38-43-E5 (hex) Grotech Inc
3843E5 (base 16) Grotech Inc
19, Ojeongongeop-gil
Uiwang-si Gyeonggi-do 16072
KR

6C-63-9C (hex) ARRIS Group, Inc.
6C639C (base 16) ARRIS Group, Inc.
6450
Sequence Drive
San Diego CA 92121
US

6C-06-D6 (hex) Huawei Device Co., Ltd.
6C06D6 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

18-E7-77 (hex) vivo Mobile Communication Co., Ltd.
18E777 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

0C-7A-15 (hex) Intel Corporate
0C7A15 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

94-D6-DB (hex) NexFi
94D6DB (base 16) NexFi
Room 417, Building 14, No. 498, Guoshoujing Road, Pudong New Area
Shanghai 201203
CN

78-B4-6A (hex) HUAWEI TECHNOLOGIES CO.,LTD
78B46A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

6C-EB-B6 (hex) HUAWEI TECHNOLOGIES CO.,LTD
6CEBB6 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin
Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

4C-F5-5B (hex) HUAWEI TECHNOLOGIES CO.,LTD
4CF55B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808

CN

64-31-39 (hex) IEEE Registration Authority
643139 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

A4-4B-D5 (hex) Xiaomi Communications Co Ltd
A44BD5 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

14-87-6A (hex) Apple, Inc.
14876A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E0-B5-5F (hex) Apple, Inc.
E0B55F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F8-FF-C2 (hex) Apple, Inc.
F8FFC2 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E0-EB-40 (hex) Apple,
Inc.
E0EB40 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

40-77-A9 (hex) New H3C Technologies Co., Ltd
4077A9 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

64-69-4E (hex) Texas Instruments
64694E (base 16) Texas Instruments
12500 TI Blvd

Dallas TX 75243
US

F8-33-31 (hex) Texas Instruments
F83331 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

40-A6-B7 (hex) Intel Corporate
40A6B7 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

B4-EC-F2 (hex) Shanghai Listent Medical Tech Co., Ltd.
B4ECF2 (base 16) Shanghai Listent Medical Tech Co., Ltd.
No. 668 Qingdai Road Pudong District
Shanghai Shanghai 201318
CN

C4-95-4D (hex) IEEE Registration Authority
C4954D (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

64-95-6C
(hex) LG Electronics
64956C (base 16) LG Electronics
222 LG-ro, JINWI-MYEON
Pyeongtaek-si Gyeonggi-do 451-713
KR

E8-3F-67 (hex) Huawei Device Co., Ltd.
E83F67 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

34-46-EC (hex) Huawei Device Co., Ltd.
3446EC (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

1C-BF-C0 (hex) CHONGQING FUGUI ELECTRONICS CO.,LTD.
1CBFC0 (base 16) CHONGQING FUGUI ELECTRONICS CO.,LTD.

Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

34-49-5B (hex) Sagemcom Broadband SAS
34495B (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

80-16-09 (hex) Sleep Number
801609 (base 16) Sleep Number
1001 Third Avenue South
Minneapolis
MN 55404
US

AC-8B-9C (hex) Primera Technology, Inc.
AC8B9C (base 16) Primera Technology, Inc.
2 Carlson Parkway N, Ste 375
Plymouth MN 55447
US

1C-C1-BC (hex) Yichip Microelectronics (Hangzhou) Co.,Ltd
1CC1BC (base 16) Yichip Microelectronics (Hangzhou) Co.,Ltd
Room 401, Building 15, No.498 Guoshoujing Road, Pudong Software Park
Shanghai 200120
CN

2C-3A-FD (hex) AVM Audiovisuelles Marketing und Computersysteme GmbH
2C3AFD (base 16) AVM Audiovisuelles Marketing und Computersysteme GmbH
Alt-Moabit 95
Berlin Berlin 10559
DE

AC-61-B9 (hex) WAMA Technology Limited
AC61B9 (base 16) WAMA Technology Limited
Room 2205, Westley Square, 48 Hoi Yuen Road, Kwun Tong, Kowloon
Hong Kong 00000
HK

F8-55-CD (hex) Visteon Corporation
F855CD (base 16) Visteon Corporation
One Village Center Drive
Van Buren Twp MI 48111
US

44-18-47 (hex) HUNAN SCROWN ELECTRONIC INFORMATION

TECH.CO.,LTD
441847 (base 16) HUNAN SCROWN ELECTRONIC INFORMATION TECH.CO.,LTD
Building No.4,Changsha Zhongdian Software Park No.39,Jianshan Road
Changsha Hunan 410006
CN

00-30-B7 (hex) Teletrol Systems, Inc.
0030B7 (base 16) Teletrol Systems, Inc.
Technology Center
Manchester NH 03101
US

C8-F3-19 (hex) LG Electronics (Mobile Communications)
C8F319 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

00-90-96 (hex) ASKEY COMPUTER CORP
009096 (base 16) ASKEY COMPUTER CORP
2F, NO. 2, LANE 497
TAIPEI 23136 12345
TW

24-74-F7 (hex) GoPro
2474F7 (base 16) GoPro
3000 Clearview Way
San Mateo CA 94402
US

7C-D5-66 (hex) Amazon Technologies Inc.
7CD566 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

68-63-50 (hex) Hella India Automotive Pvt Ltd
686350 (base 16) Hella India Automotive Pvt
Ltd
Unit no 201A to 201B Nano Space Surveyno.5/1B/2 BanerBaner Pashan Link road
Pune Maharastra 411045
IN

18-70-3B (hex) Huawei Device Co., Ltd.
18703B (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

44-22-95 (hex) China Mobile Iot Limited company
442295 (base 16) China Mobile Iot Limited company
No. 8 Yangliu North Road, Yubei District, Chongqing, China
Chong Qing Chong Qing 401120
CN

E8-5A-8B (hex) Xiaomi Communications Co Ltd
E85A8B (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

80-75-1F (hex) SKY UK LIMITED
80751F (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

D8-9E-61 (hex) Huawei Device Co., Ltd.
D89E61 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong
523808
CN

34-7E-00 (hex) Huawei Device Co., Ltd.
347E00 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

5C-E5-0C (hex) Beijing Xiaomi Mobile Software Co., Ltd
5CE50C (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

5C-71-0D (hex) Cisco Systems, Inc
5C710D (base 16) Cisco Systems, Inc
80 West Tasman Dr.
San Jose CA 94568
US

98-AF-65 (hex) Intel Corporate
98AF65 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000

MY

F8-89-3C (hex) Inventec Appliances Corp.
F8893C (base 16) Inventec Appliances Corp.
37 Wugong 5th road, New Taipei Industrial Park,
New Taipei City Wugu District 24890
TW

74-9E-F5 (hex) Samsung Electronics Co.,Ltd
749EF5 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi
Gyeongbuk 730-350
KR

68-BF-C4 (hex) Samsung Electronics Co.,Ltd
68BFC4 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B8-2A-DC (hex) EFR Europäische Funk-Rundsteuerung GmbH
B82ADC (base 16) EFR Europäische Funk-Rundsteuerung GmbH
Nymphenburger Straße 20b
Munich 80335
DE

00-AB-48 (hex) eero inc.
00AB48 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

A0-DF-15 (hex) HUAWEI TECHNOLOGIES CO.,LTD
A0DF15 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C4-AD-34 (hex) Routerboard.com
C4AD34 (base 16) Routerboard.com
Mikrotikls SIA
Riga Riga LV1009
LV

00-07-33 (hex) DANCONTROL Engineering
000733 (base 16) DANCONTROL Engineering
Italiensvej 1-5

DK

A8-5E-45 (hex) ASUSTek COMPUTER INC.
A85E45 (base 16) ASUSTek COMPUTER
INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

64-C9-01 (hex) INVENTEC Corporation
64C901 (base 16) INVENTEC Corporation
No.66, Hougang St., Shilin Dist., Taipei City 111, Taiwan (R.O.C.)
Taipei 111
TW

B4-39-39 (hex) Shenzhen TINNO Mobile Technology Corp.
B43939 (base 16) Shenzhen TINNO Mobile Technology Corp.
Building, No.33, Xiandong Rd, Xili
Nanshan District, Shenzhen PRC 518053
CN

5C-CD-5B (hex) Intel Corporate
5CCD5B (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

84-C8-07 (hex) ADVA Optical Networking Ltd.
84C807 (base 16) ADVA Optical Networking Ltd.
ADVAntage House
York YO30 4RY
GB

10-B3-C6 (hex) Cisco Systems, Inc
10B3C6 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

10-B3-D6 (hex) Cisco Systems, Inc
10B3D6 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San
Jose CA 94568
US

A0-AB-51 (hex) WEIFANG GOERTEK ELECTRONICS CO.,LTD

A0AB51 (base 16) WEIFANG GOERTEK ELECTRONICS CO.,LTD
Gaoxin 2 Road, Free Trade Zone,Weifang,Shandong,261205,P.R.China
Weifang Shandong 261205
CN

04-B1-A1 (hex) Samsung Electronics Co.,Ltd
04B1A1 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

CC-46-4E (hex) Samsung Electronics Co.,Ltd
CC464E (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

30-6F-07 (hex) Nations Technologies Inc.
306F07 (base 16) Nations Technologies Inc.
18F, Nations Tower, Nanshan District
Shenzhen 518057
CN

3C-89-4D (hex) Dr. Ing. h.c. F. Porsche AG
3C894D (base 16) Dr. Ing. h.c. F. Porsche AG
Porscheplatz 1
Stuttgart 70435
DE

F8-54-B8 (hex) Amazon Technologies Inc.
F854B8 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

78-17-35
(hex) Nokia Shanghai Bell Co., Ltd.
781735 (base 16) Nokia Shanghai Bell Co., Ltd.
No.388 Ning Qiao Road,Jin Qiao Pudong Shanghai
Shanghai 201206
CN

9C-FF-C2 (hex) AVI Systems GmbH
9CFFC2 (base 16) AVI Systems GmbH
Dr. Franz Wilhelmstraße 2A
Krems a. d. Donau 3500
AT

44-D8-78 (hex) Hui Zhou Gaoshengda Technology Co.,LTD
44D878 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.75,Zhongkai High-Tech Development District,Huizhou
Hui Zhou Guangdong 516006
CN

78-97-C3 (hex) DINGXIN INFORMATION TECHNOLOGY CO.,LTD
7897C3 (base 16) DINGXIN INFORMATION TECHNOLOGY CO.,LTD
No.6 huasui Road,ZhuJiang Xincheng
Guangzhou Guangdong 510623
CN

F4-D6-20 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
F4D620 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

94-90-34 (hex) SHENZHEN CHUANGWEI-RGB ELECTRONICS
CO.,LTD
949034 (base 16) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
Unit East Block22-24/F,Skyworth semiconductor design Bldg., Gaoxin Ave.4.S.,Nanshan District,Shenzhen,China
SHENZHEN GUANGDONG 518057
CN

3C-8F-06 (hex) Shenzhen Libtor Technology Co.,Ltd
3C8F06 (base 16) Shenzhen Libtor Technology Co.,Ltd
Room 608, Building A
Shenzhen City Guangdong Province 518000
CN

98-7A-10 (hex) Ericsson AB
987A10 (base 16) Ericsson AB
Torshamnsgatan 36
Stockholm SE-164 80
SE

20-26-81 (hex) TECNO MOBILE LIMITED
202681 (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

A0-D8-07 (hex) Huawei Device Co., Ltd.
A0D807 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808

CN

2C-78-0E (hex) Huawei Device Co., Ltd.
2C780E
(base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

34-B2-0A (hex) Huawei Device Co., Ltd.
34B20A (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

98-F4-AB (hex) Espressif Inc.
98F4AB (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

D8-BF-C0 (hex) Espressif Inc.
D8BFC0 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

B0-08-75 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B00875 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

64-FB-92 (hex) PPC Broadband Inc.
64FB92 (base 16) PPC Broadband Inc.
6176 E Molloy Rd
East Syracuse NY 13057
US

14-13-46 (hex) Skyworth Digital Technology(Shenzhen)
Co.,Ltd
141346 (base 16) Skyworth Digital Technology(Shenzhen) Co.,Ltd
7F,Block A,Skyworth Building,
Shenzhen Guangdong 518057
CN

54-2B-DE (hex) New H3C Technologies Co., Ltd
542BDE (base 16) New H3C Technologies Co., Ltd

466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

98-F7-81 (hex) ARRIS Group, Inc.
98F781 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

4C-90-DB (hex) JL Audio
4C90DB (base 16) JL Audio
10369 N Commerce Pkwy
Mirimar FL 33025
US

8C-F1-12 (hex) Motorola Mobility LLC, a Lenovo Company
8CF112 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

B8-99-AE (hex) Shenzhen MiaoMing Intelligent Technology Co.,Ltd
B899AE (base 16) Shenzhen MiaoMing Intelligent Technology Co.,Ltd
Chudong science and technology park, 111 shaxin road, tangxia town,
dongguan
city guangdong province 523710
CN

E8-D0-B9 (hex) Taicang T&W Electronics
E8D0B9 (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

58-85-A2 (hex) Realme Chongqing MobileTelecommunications Corp Ltd
5885A2 (base 16) Realme Chongqing MobileTelecommunications Corp Ltd
No.24 Nichang Boulevard, Huixing Block, Yubei District, Chongqing.
Chongqing China 401120
CN

A8-C0-EA (hex) Pepwave Limited
A8C0EA (base 16) Pepwave Limited
A5, 5/F, HK Spinners Industrial Building, Phase 6, 481 Castle Peak Road
Cheung Sha Wan Hong Kong 0
HK

44-AE-AB (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD

44AEAB (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

A4-F0-5E (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
A4F05E (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG
GUAN GUANG DONG 523860
CN

00-07-1C (hex) AT&T
00071C (base 16) AT&T
3300 E Renner Road
Richardson TX 75082
US

84-76-37 (hex) HUAWEI TECHNOLOGIES CO.,LTD
847637 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

FC-94-35 (hex) HUAWEI TECHNOLOGIES CO.,LTD
FC9435 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E0-24-81 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E02481 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

2C-F8-9B (hex) Cisco Systems, Inc
2CF89B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

80-B0-7B (hex) zte corporation
80B07B (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen
guangdong 518057
CN

C8-5A-9F (hex) zte corporation
C85A9F (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

50-02-91 (hex) Espressif Inc.
500291 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

00-1D-DF (hex) Sunitec Enterprise Co.,Ltd
001DDF (base 16) Sunitec Enterprise Co.,Ltd
3F., No. 98-1, Mincyuan Rd.
Sindian City Taipei County 231
TW

8C-0F-FA (hex) Hutec co.,ltd
8C0FFA (base 16) Hutec co.,ltd
46, Gunpocheomdansaneop 2-ro
Gunpo-si Gyeonggi-do 15880
KR

AC-FE-05 (hex) ITEL MOBILE LIMITED
ACFE05 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

BC-C3-1B (hex) Kygo Life A
BCC31B (base 16) Kygo Life A
Sjolyst Plass 3
Oslo 0278
NO

64-DF-10
(hex) JingLue Semiconductor(SH) Ltd.
64DF10 (base 16) JingLue Semiconductor(SH) Ltd.
No.800 Naxian Rd
Shanghai 201210
CN

10-01-77 (hex) HUAWEI TECHNOLOGIES CO.,LTD
100177 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808

CN

44-A1-91 (hex) HUAWEI TECHNOLOGIES CO.,LTD
44A191 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

24-52-6A (hex) Zhejiang Dahua Technology Co., Ltd.
24526A (base 16) Zhejiang Dahua Technology Co., Ltd.
No.1199,Waterfront Road
Hangzhou Zhejiang 310053
CN

20-DF-B9 (hex) Google, Inc.
20DFB9 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

5C-CA-D3 (hex) CHIPSEA TECHNOLOGIES (SHENZHEN) CORP.
5CCAD3 (base 16) CHIPSEA TECHNOLOGIES (SHENZHEN) CORP.
9F,BLOCK A,GARDEN CITY DIGITAL BUILDING,NO.1079
NANHAI ROAD,NANSHAN DISTRICT
SHEN ZHEN GUANG DONG 518000
CN

78-2A-79 (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
782A79 (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

78-65-59 (hex) Sagemcom Broadband SAS
786559 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

50-D2-F5 (hex) Beijing Xiaomi Mobile Software Co., Ltd
50D2F5 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

1C-68-7E (hex) Shenzhen Qihu Intelligent Technology Company Limited
1C687E (base 16) Shenzhen Qihu Intelligent Technology Company Limited
Room 201, Block A, No.1, Qianwan Road 1,Qianhai Shenzhen HongKong Modern Service Industry Cooperation

Zone
Shenzhen Guangdong 518057
CN

C0-36-56
(hex) Fiberhome Telecommunication Technologies Co.,LTD
C03656 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

B0-3E-51 (hex) SKY UK LIMITED
B03E51 (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

28-16-7F (hex) Xiaomi Communications Co Ltd
28167F (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

08-71-90 (hex) Intel Corporate
087190 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

5C-E8-83 (hex) HUAWEI TECHNOLOGIES CO.,LTD
5CE883 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

60-23-A4 (hex) Sichuan AI-Link Technology Co., Ltd.
6023A4 (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou,Industrial Park
Anzhou,Industrial
Park Sichuan 621000
CN

A4-53-0E (hex) Cisco Systems, Inc
A4530E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-40-3A (hex) IMPACT TECHNOLOGIES
00403A (base 16) IMPACT TECHNOLOGIES
6 RUE DE L'ACADIE

FR

C8-B1-CD (hex) Apple, Inc.
C8B1CD (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

14-60-CB (hex) Apple, Inc.
1460CB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B8-F1-2A (hex) Apple, Inc.
B8F12A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F8-87-F1 (hex) Apple, Inc.
F887F1 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

60-44-7A (hex) Water-i.d. GmbH
60447A (base 16) Water-i.d. GmbH
Daimlerstr. 20
Eggenstein 76344
DE

80-72-15 (hex) SKY UK LIMITED
807215 (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

74-D6-37
(hex) Amazon Technologies Inc.
74D637 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

74-84-E1 (hex) Dongguan Haoyuan Electronics Co.,Ltd
7484E1 (base 16) Dongguan Haoyuan Electronics Co.,Ltd
NO.161 Kejizhong RoadLiuwu Shijie Town
Dongguan Guangdong 523290
CN

40-74-E0 (hex) Intel Corporate
4074E0 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

D0-5F-64 (hex) IEEE Registration Authority
D05F64 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

44-FB-5A (hex) zte corporation
44FB5A (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

C4-63-FB (hex) Neatframe AS
C463FB (base 16) Neatframe AS
Martin Linges Vei 25
Fornebu Fornebu 1364
NO

30-57-14 (hex) Apple, Inc.
305714 (base 16) Apple, Inc.
1 Infinite
Loop
Cupertino CA 95014
US

04-A2-22 (hex) Arcadyan Corporation
04A222 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

04-AB-6A (hex) Chun-il Co.,Ltd.
04AB6A (base 16) Chun-il Co.,Ltd.
13-7, Gimhae-daero 2694 beon-gil,
Gimhae-si Gyeongsangnam-do 50936

KR

00-35-FF (hex) Texas Instruments
0035FF (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

DC-54-D7 (hex) Amazon Technologies Inc.
DC54D7 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

28-FE-65 (hex) DongGuan Siyoto Electronics Co., Ltd
28FE65 (base 16) DongGuan Siyoto Electronics Co., Ltd
Hecheng Industrial District, QiaoTou Town
DongGuan City Guangdong 523520
CN

18-06-F5 (hex) RAD Data Communications, Ltd.
1806F5 (base 16) RAD Data Communications, Ltd.
24 Raoul Wallenberg St.
Tel Aviv 69719
IL

88-9F-AA
(hex) Hella Gutmann Solutions GmbH
889FAA (base 16) Hella Gutmann Solutions GmbH
Am Krebsbach 2
Ihringen Baden Württemberg 79241
DE

04-C8-07 (hex) Xiaomi Communications Co Ltd
04C807 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

44-59-E3 (hex) HUAWEI TECHNOLOGIES CO.,LTD
4459E3 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

68-3F-1E (hex) EFFECT Photonics B.V.
683F1E (base 16) EFFECT Photonics B.V.
Kastanjelaan 400

Eindhoven Noord-Brabant 5616 LZ
NL

44-D3-CA (hex) Cisco Systems, Inc
44D3CA (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

84-0B-7C (hex) Hitron Technologies. Inc
840B7C (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan,
R.O.C
Hsin-chu Taiwan 300
TW

48-A7-3C (hex) Sichuan tianyi kanghe communications co., LTD
48A73C (base 16) Sichuan tianyi kanghe communications co., LTD
No.198, section 1, xueshan avenue, jinyuan town, dayi county
chengdu sichuan 611330
CN

F8-A7-63 (hex) Zhejiang Tmall Technology Co., Ltd.
F8A763 (base 16) Zhejiang Tmall Technology Co., Ltd.
Ali Center,No.3331 Keyuan South RD (Shenzhen bay), Nanshan District, Shenzhen Guangdong province
Shenzhen GuangDong 518000
CN

A4-98-13 (hex) ARRIS Group, Inc.
A49813 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

6C-29-90 (hex) WiZ Connected Lighting Company Limited
6C2990 (base 16) WiZ Connected Lighting Company Limited
Room 3805, 148 Electric Road
Hong Kong 0000 0000
HK

98-35-ED (hex) HUAWEI TECHNOLOGIES CO.,LTD
9835ED (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology
Park
Dongguan 523808
CN

80-76-93 (hex) Newag SA

807693 (base 16) Newag SA
Wyspianskiego 3
Nowy Sacz woj. Malopolskie 33-300
PL

BC-97-40 (hex) IEEE Registration Authority
BC9740 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

08-4F-0A (hex) HUAWEI TECHNOLOGIES CO.,LTD
084F0A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A8-49-4D (hex) HUAWEI TECHNOLOGIES CO.,LTD
A8494D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

44-00-4D (hex) HUAWEI TECHNOLOGIES CO.,LTD
44004D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

20-96-8A (hex) China Mobile (Hangzhou) Information Technology Co., Ltd.
20968A (base 16) China Mobile (Hangzhou)
Information Technology Co., Ltd.
No. 1600 Yuhangtang Road, Wuchang Street, Yuhang District
Hangzhou Zhejiang 310000
CN

8C-18-50 (hex) China Mobile (Hangzhou) Information Technology Co., Ltd.
8C1850 (base 16) China Mobile (Hangzhou) Information Technology Co., Ltd.
No. 1600 Yuhangtang Road, Wuchang Street, Yuhang District
Hangzhou Hangzhou 310000
CN

D8-D4-E6 (hex) Hytec Inter Co., Ltd.
D8D4E6 (base 16) Hytec Inter Co., Ltd.
3-28-6 Yoyogi
Shibuya-ku Tokyo 1510053
JP

F8-E7-A0 (hex) vivo Mobile Communication Co., Ltd.
F8E7A0 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

2C-FF-EE (hex) vivo Mobile Communication Co., Ltd.
2CFFEE (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

C8-5D-38 (hex) HUMAX Co., Ltd.
C85D38 (base 16) HUMAX Co., Ltd.
HUMAX
Village, 216, Hwangsaeul-ro, Bu
Seongnam-si Gyeonggi-do 463-875
KR

18-CF-24 (hex) HUAWEI TECHNOLOGIES CO.,LTD
18CF24 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

50-F8-A5 (hex) eWBM Co., Ltd.
50F8A5 (base 16) eWBM Co., Ltd.
14F, 9, Teheran-ro 20-gil
Gangnam-gu, Seoul 06236
KR

D8-9B-3B (hex) HUAWEI TECHNOLOGIES CO.,LTD
D89B3B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

88-40-3B (hex) HUAWEI TECHNOLOGIES CO.,LTD
88403B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

FC-87-43 (hex) HUAWEI TECHNOLOGIES CO.,LTD
FC8743 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

04-88-5F (hex) HUAWEI
TECHNOLOGIES CO.,LTD
04885F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C8-50-CE (hex) HUAWEI TECHNOLOGIES CO.,LTD
C850CE (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-0B-E4 (hex) Hosiden Corporation
000BE4 (base 16) Hosiden Corporation
4-33
Yao-city Osaka 581-0071
JP

44-13-D0 (hex) zte corporation
4413D0 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

24-62-AB (hex) Espressif Inc.
2462AB (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

14-49-BC (hex) DrayTek Corp.
1449BC (base 16) DrayTek Corp.
No. 26, Fushing Rd., Hukou, Hsinchu Industrial Park,
Hsinchu county 30352
TW

20-F4-78 (hex) Xiaomi
Communications Co Ltd
20F478 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

74-38-B7 (hex) CANON INC.
7438B7 (base 16) CANON INC.
30-2 Shimomaruko 3-chome

Ohta-ku Tokyo 146-8501
JP

90-73-5A (hex) Motorola Mobility LLC, a Lenovo Company
90735A (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

00-04-DF (hex) TERACOM TELEMATICA S.A
0004DF (base 16) TERACOM TELEMATICA S.A
RUA AMERICA N.1000
Eldorado do Sul - RS Brazil
BR

18-B6-F7 (hex) NEW POS TECHNOLOGY LIMITED
18B6F7 (base 16) NEW POS TECHNOLOGY LIMITED
AB Unit, 14th Floor,Block A, Financial Technology Building.No. 11 Keyuan Rd
Shenzhen 518057
CN

1C-82-59 (hex) IEEE Registration Authority
1C8259 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway
NJ 08554
US

00-FA-21 (hex) Samsung Electronics Co.,Ltd
00FA21 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

7C-23-02 (hex) Samsung Electronics Co.,Ltd
7C2302 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

6C-AB-05 (hex) Cisco Systems, Inc
6CAB05 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

5C-B1-5F (hex) Oceanblue Cloud Technology Limited
5CB15F (base 16) Oceanblue Cloud Technology Limited

253-261 Hennessy Road
Hong Kong Hong Kong 999077
HK

48-5D-EB (hex) Just Add Power
485DEB (base 16) Just Add Power
12505 STARKEY RD STE A
LARGO FL 33773
US

50-13-95 (hex) Sichuan AI-Link Technology Co., Ltd.
501395 (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou,Industrial Park
Anzhou,Industrial Park Sichuan 621000
CN

18-D9-EF (hex) Shuttle Inc.
18D9EF
(base 16) Shuttle Inc.
No. 30 Lane 76, Rei Kuang Rd
Taipei 114
TW

88-DA-33 (hex) Beijing Xiaoyuer Network Technology Co., Ltd
88DA33 (base 16) Beijing Xiaoyuer Network Technology Co., Ltd
Block K1, North American International Business Centre, 86 Beiyuan Road, Chaoyang District
Beijing Beijing 100012
CN

84-C7-8F (hex) APS Networks GmbH
84C78F (base 16) APS Networks GmbH
Rosenwiesstr. 17
Stuttgart 70567
DE

C0-9F-E1 (hex) zte corporation
C09FE1 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

18-AA-CA (hex) Sichuan tianyi kanghe communications co., LTD
18AACA (base 16) Sichuan tianyi kanghe communications co., LTD
No.198, section 1, xueshan avenue, jinyuan town, dayi county, sichuan province
chengdu sichuan 611330
CN

60-D2-48 (hex) ARRIS Group, Inc.

60D248 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San
Diego CA 92121
US

D4-9D-C0 (hex) Samsung Electronics Co.,Ltd
D49DC0 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

D0-19-6A (hex) Ciena Corporation
D0196A (base 16) Ciena Corporation
7035 Ridge Road
Hanover MD 21076
US

84-FD-D1 (hex) Intel Corporate
84FDD1 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

B0-70-0D (hex) Nokia
B0700D (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

00-21-75 (hex) Pacific Satellite International Ltd.
002175 (base 16) Pacific Satellite International Ltd.
20/F Tai Tung Building,
Wanchai 100000
HK

34-6B-5B (hex) New H3C Technologies Co., Ltd
346B5B (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

84-E8-92 (hex) Actiontec Electronics, Inc
84E892 (base 16) Actiontec
Electronics, Inc
301 Olcott St
Santa Clara CA 95054
US

78-E2-BD (hex) Vodafone Automotive S.p.A.
78E2BD (base 16) Vodafone Automotive S.p.A.
via Astico 41
Varese Italy/VA 21100
IT

F8-48-FD (hex) China Mobile Group Device Co.,Ltd.
F848FD (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

50-41-B9 (hex) I-O DATA DEVICE,INC.
5041B9 (base 16) I-O DATA DEVICE,INC.
3-10,Sakurada-machi
Kanazawa Ishikawa 920-8512
JP

80-DA-BC (hex) Megafone Limited
80DABC (base 16) Megafone Limited
Unit 702,7/F,Bankok Bank Building,NO.18 Bonham Strand West
Hong Kong 999077
HK

20-DA-22 (hex) HUAWEI TECHNOLOGIES CO.,LTD
20DA22 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

18-46-44 (hex) Home Control Singapore Pte Ltd
184644 (base 16) Home Control Singapore
Pte Ltd
151 Lorong Chuan
Singapore 556741
SG

C8-21-DA (hex) Shenzhen YOUHUA Technology Co., Ltd
C821DA (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

20-65-8E (hex) HUAWEI TECHNOLOGIES CO.,LTD
20658E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808

CN

18-3D-5E (hex) HUAWEI TECHNOLOGIES CO.,LTD
183D5E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

88-97-46 (hex) Sichuan AI-Link Technology Co., Ltd.
889746 (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou,Industrial Park
Anzhou,Industrial Park Sichuan 621000
CN

1C-DE-57 (hex) Fiberhome Telecommunication Technologies Co.,LTD
1CDE57 (base 16) Fiberhome Telecommunication
Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

E0-DC-FF (hex) Xiaomi Communications Co Ltd
E0DCFF (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

00-77-8D (hex) Cisco Systems, Inc
00778D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0E-8C (hex) Siemens AG
000E8C (base 16) Siemens AG
Siemensstraße 10
Regensburg 93055
DE

00-87-64 (hex) Cisco Systems, Inc
008764 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

84-6F-CE (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
846FCE (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,

DONG GUAN GUANG DONG 523860
CN

B0-E7-1D (hex) Shanghai Maigantech Co.,Ltd
B0E71D (base 16) Shanghai Maigantech Co.,Ltd
Room 2211,No.88
Caoxi North Rd,Xuhui District
Shanghai Shanghai 200030
CN

C4-68-D0 (hex) VTech Telecommunications Ltd.
C468D0 (base 16) VTech Telecommunications Ltd.
23/F, Tai Ping Industrial Centre, Block 1,
HONG KONG NA 000000
HK

14-AE-DB (hex) VTech Telecommunications Ltd.
14AEDB (base 16) VTech Telecommunications Ltd.
23/F, Tai Ping Industrial Centre, Block 1,
HONG KONG NA 000000
HK

78-DB-2F (hex) Texas Instruments
78DB2F (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

E0-B6-55 (hex) Beijing Xiaomi Electronics Co., Ltd.
E0B655 (base 16) Beijing Xiaomi Electronics Co., Ltd.
Building C, QingHe ShunShiJiaYe Technology Park, #66 ZhuFang Rd, HaiDian District
Beijing Beijing 10085
CN

8C-0F-A0 (hex) di-soric GmbH & Co. KG
8C0FA0 (base 16) di-soric GmbH & Co. KG
Steinbeisstrasse 6
Urbach 73660
DE

F8-BB-BF (hex) eero inc.
F8BBBF (base 16) eero inc.
500 Howard
St Suite 900
San Francisco CA 94105
US

DC-FB-48 (hex) Intel Corporate

DCFB48 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

DC-71-37 (hex) zte corporation
DC7137 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

84-7C-9B (hex) GD Midea Air-Conditioning Equipment Co.,Ltd.
847C9B (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
Midea Global Innovation Center,Beijiao Town,Shunde
Foshan Guangdong 528311
CN

34-41-A8 (hex) ER-Telecom
3441A8 (base 16) ER-Telecom
Ovchinnikovskaya embankment, 20, Building 1
Moscow 115324
RU

34-DB-9C (hex) Sagemcom Broadband SAS
34DB9C (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

74-40-BE (hex) LG Innotek
7440BE (base 16) LG Innotek
26, Hanamsandan 5beon-ro
Gwangju Gwangsan-gu
506-731
KR

A4-CF-12 (hex) Espressif Inc.
A4CF12 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

FC-B6-62 (hex) IC Holdings LLC
FCB662 (base 16) IC Holdings LLC
1277 Windmill Ln.
Midway UT 84049
US

04-D4-C4 (hex) ASUSTek COMPUTER INC.
04D4C4 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

A0-51-0B (hex) Intel Corporate
A0510B (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

74-88-BB (hex) Cisco Systems, Inc
7488BB (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A8-E2-C3 (hex) Shenzhen YOUHUA Technology Co., Ltd
A8E2C3 (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

90-20-C2
(hex) Aruba, a Hewlett Packard Enterprise Company
9020C2 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

0C-A0-6C (hex) Industrial Cyber Sensing Inc.
0CA06C (base 16) Industrial Cyber Sensing Inc.
Unit 1A - 343 Montrose Street North
Cambridge Ontario N3H 2H6
CA

FC-D2-B6 (hex) IEEE Registration Authority
FCD2B6 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

80-4A-14 (hex) Apple, Inc.
804A14 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

70-3C-69 (hex) Apple, Inc.
703C69 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

AC-2D-A9 (hex) TECNO MOBILE LIMITED
AC2DA9 (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

40-A9-3F (hex) Pivotal
Commware, Inc.
40A93F (base 16) Pivotal Commware, Inc.
1555 132nd Ave. NE
Bellevue WA 98005
US

4C-6A-F6 (hex) HMD Global Oy
4C6AF6 (base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo 02600
FI

48-9D-D1 (hex) Samsung Electronics Co.,Ltd
489DD1 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C0-8C-71 (hex) Motorola Mobility LLC, a Lenovo Company
C08C71 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

48-04-9F (hex) ELECOM CO., LTD
48049F (base 16) ELECOM CO., LTD
9FLand Axis Tower.1-1 fushimi machi,4-chome chuoku
osaka 5418765
JP

08-7F-98 (hex) vivo Mobile Communication Co., Ltd.
087F98 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road

Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

C8-52-61 (hex) ARRIS Group, Inc.
C85261 (base 16) ARRIS
Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

C0-41-21 (hex) Nokia Solutions and Networks GmbH & Co. KG
C04121 (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541
DE

F4-6F-4E (hex) Echowell
F46F4E (base 16) Echowell
7F-8, No. 8, Sec 1, JunShing Rd.
New Taipei City 24872
TW

B0-6F-E0 (hex) Samsung Electronics Co.,Ltd
B06FE0 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

44-B9-94 (hex) Douglas Lighting Controls
44B994 (base 16) Douglas Lighting Controls
280 - 3605 Gilmore Way
Burnaby BC V5G4X5
CA

24-79-F8 (hex) KUPSON spol. s r.o.
2479F8 (base 16) KUPSON spol. s r.o.
Hradecka 787/14
Opava Czech Republic 74601
CZ

70-BF-92 (hex) GN Audio A/S
70BF92 (base 16) GN Audio A/S
Lautrupbjerg 7
Ballerup DK-2750
DK

AC-BB-61 (hex) YSTen Technology Co.,Ltd
ACBB61

(base 16) YSTen Technology Co.,Ltd
Room 1715,17/F North Star Times Tower,Chaoyang District,Beijing.
Beijing 100101
CN

34-20-03 (hex) Shenzhen Feitengyun Technology Co.,LTD
342003 (base 16) Shenzhen Feitengyun Technology Co.,LTD
7F 4building,Yalianhaoshida industrial Park
Shenzhen Guangdong 518100
CN

7C-FD-82 (hex) GUANGDONG GENIUS TECHNOLOGY CO., LTD.
7CFD82 (base 16) GUANGDONG GENIUS TECHNOLOGY CO., LTD.
No.168, Middle Road Of East Gate
Xiaobian Community Chang'an Town 523851
CN

00-2F-5C (hex) Cisco Systems, Inc
002F5C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

F4-64-5D (hex) Toshiba
F4645D (base 16) Toshiba
2-9,Suehiro-Cho
Ome Tokyo 1988710
JP

F0-7D-68 (hex) D-Link Corporation
F07D68 (base 16) D-Link Corporation
No.289, Sinhu 3rd Rd., Neihu District,
Taipei City 114
TW

EC-41-18 (hex) XIAOMI Electronics,CO.,LTD
EC4118
(base 16) XIAOMI Electronics,CO.,LTD
Xiaomi Building, No.68 Qinghe Middle Street
Haidian District Beijing 100085
CN

D8-86-0B (hex) IEEE Registration Authority
D8860B (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

08-EC-F5 (hex) Cisco Systems, Inc
08ECF5 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

D0-76-50 (hex) IEEE Registration Authority
D07650 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

60-D0-A9 (hex) Samsung Electronics Co.,Ltd
60D0A9 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

88-CE-FA (hex) HUAWEI TECHNOLOGIES CO.,LTD
88CEFA (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-27-06 (hex) YOISYS
002706 (base 16) YOISYS
309-52 SUNGSU-2GA, 1DONG, SUNGDONG-GU
SEOUL
133-827
KR

04-2D-B4 (hex) First Property (Beijing) Co., Ltd Modern MOMA Branch
042DB4 (base 16) First Property (Beijing) Co., Ltd Modern MOMA Branch
Room 301ABuilding No.10, No.1 Xiangheyuan Road, Dongcheng District, Beijing City
Beijing Beijing 100028
CN

38-F8-5E (hex) HUMAX Co., Ltd.
38F85E (base 16) HUMAX Co., Ltd.
HUMAX Village, 216, Hwangsaeul-ro, Bu
Seongnam-si Gyeonggi-do 463-875
KR

00-CB-51 (hex) Sagemcom Broadband SAS
00CB51 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

C4-64-B7 (hex) Fiberhome Telecommunication Technologies Co.,LTD
C464B7 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

04-E0-B0 (hex) Shenzhen YOUHUA Technology Co., Ltd
04E0B0 (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan
Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

40-E3-D6 (hex) Aruba, a Hewlett Packard Enterprise Company
40E3D6 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

B4-5D-50 (hex) Aruba, a Hewlett Packard Enterprise Company
B45D50 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

AC-A3-1E (hex) Aruba, a Hewlett Packard Enterprise Company
ACA31E (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

38-B1-9E (hex) IEEE Registration Authority
38B19E (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

38-E2-6E (hex) ShenZhen Sweet Rain Electronics Co.,Ltd.
38E26E (base 16) ShenZhen Sweet Rain Electronics Co.,Ltd.
Xinghua Road
Shenzhen Bao'an 518101
CN

70-C9-C6 (hex) Cisco Systems, Inc
70C9C6
(base 16) Cisco Systems, Inc
80 West Tasman Drive

San Jose CA 94568
US

68-9A-87 (hex) Amazon Technologies Inc.
689A87 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

64-AE-88 (hex) Polytec GmbH
64AE88 (base 16) Polytec GmbH
Polytec Platz 1-7
Waldbronn BW 76337
DE

00-D0-50 (hex) Iskratel d.o.o.
00D050 (base 16) Iskratel d.o.o.
Ljubljanska cesta 24a
Kranj 4000
SI

78-DA-A2 (hex) Cynosure Technologies Co.,Ltd
78DAA2 (base 16) Cynosure Technologies Co.,Ltd
Room 2708/2710, Building No.9A, Shenzhen Bay Science and Technology Ecological ParkNanshan
Shenzhen city Guangdong Province 518057
CN

80-84-A9 (hex) oshkosh Corporation
8084A9 (base 16) oshkosh Corporation
2307 Oregon Street
Oshkosh WI 54902
US

18-0D-2C (hex) Intelbras
180D2C (base 16) Intelbras
BR 101, km 210, S/N°
São José Santa Catarina 88104800
BR

98-DA-C4 (hex) TP-LINK
TECHNOLOGIES CO.,LTD.
98DAC4 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

00-17-7B (hex) Azalea Networks inc
00177B (base 16) Azalea Networks inc

673 S Milpitas Blvd
Milpitas CA 95035
US

50-2B-98 (hex) Es-tech International
502B98 (base 16) Es-tech International
228-70, Saneop-ro 155beon-gil, Gwonseon-gu, Suwon-si, Gyeonggi-do, Korea
Suwon 16648
KR

C8-28-32 (hex) Beijing Xiaomi Electronics Co., Ltd.
C82832 (base 16) Beijing Xiaomi Electronics Co., Ltd.
Building C, QingHe ShunShiJiaYe Technology Park, #66 ZhuFang Rd, HaiDian District
Beijing Beijing 10085
CN

70-1B-FB (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
701BFB (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

04-76-6E
(hex) ALPSALPINE CO,.LTD
04766E (base 16) ALPSALPINE CO,.LTD
6-3-36 Furukawanakazato,
Osaki Miyagi-pref 989-6181
JP

AC-7A-4D (hex) ALPSALPINE CO,.LTD
AC7A4D (base 16) ALPSALPINE CO,.LTD
6-1
KAKUDA-CITY MIYAGI-PREF 981-1595
JP

38-C0-96 (hex) ALPSALPINE CO,.LTD
38C096 (base 16) ALPSALPINE CO,.LTD
6-1
KAKUDA-CITY MIYAGI-PREF 981-1595
JP

C4-34-6B (hex) Hewlett Packard
C4346B (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

48-F1-7F (hex) Intel Corporate

48F17F (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-26-43 (hex) ALPSALPINE CO,.LTD
002643 (base 16) ALPSALPINE CO,.LTD
1-2-1, Okinouchi,
Soma-city, Fukushima-pref., 976-8501
JP

00-4E-35 (hex) Hewlett Packard Enterprise
004E35 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

1C-34-77 (hex) Innovation
Wireless
1C3477 (base 16) Innovation Wireless
11869 Teale Street
Culver City CA 90230
US

4C-C7-D6 (hex) FLEXTRONICS MANUFACTURING(ZHUHAI)CO.,LTD.
4CC7D6 (base 16) FLEXTRONICS MANUFACTURING(ZHUHAI)CO.,LTD.
Xin Qing Science & Technology Industrial Park,Jin An Town,Doumen ,Zhuhai,Guangdong,PRC
Zhuhai Guangdong 519180
CN

C8-08-73 (hex) Ruckus Wireless
C80873 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

00-16-97 (hex) NEC Corporation
001697 (base 16) NEC Corporation
7-1, Shiba 5-chome Minato-ku,
tokyo Tokyo 108-8001
JP

00-30-13 (hex) NEC Corporation
003013 (base 16) NEC Corporation
1-10 Nisshincho, Fuchu
Tokyo 183-8501 0000
JP

BC-3E-07 (hex) Hitron Technologies. Inc
BC3E07 (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

48-FD-A3 (hex) Xiaomi
Communications Co Ltd
48FDA3 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

28-80-88 (hex) NETGEAR
288088 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

90-86-9B (hex) zte corporation
90869B (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

E0-18-9F (hex) EM Microelectronic
E0189F (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

F8-13-08 (hex) Nokia
F81308 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

F8-A2-D6 (hex) Liteon Technology Corporation
F8A2D6 (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

04-9D-FE (hex) Hivesystem
049DFE (base 16) Hivesystem
816 Kranz-techno Bldg. 388 dunchondaero,
jun
Gyeonggi-do KSXX0024

KR

D0-51-57 (hex) LEAX Arkivator Telecom
D05157 (base 16) LEAX Arkivator Telecom
NanShan District YueHaiMen Street
ShenZhen GuangDong 518061
CN

FC-BE-7B (hex) vivo Mobile Communication Co., Ltd.
FCBE7B (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

B4-0F-B3 (hex) vivo Mobile Communication Co., Ltd.
B40FB3 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

EC-5C-68 (hex) CHONGQING FUGUI ELECTRONICS CO.,LTD.
EC5C68 (base 16) CHONGQING FUGUI ELECTRONICS CO.,LTD.
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

94-58-CB (hex) Nintendo Co.,Ltd
9458CB (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

74-36-6D (hex) Vodafone Italia
S.p.A.
74366D (base 16) Vodafone Italia S.p.A.
Via Lorenteggio nr. 240
Milan Italy 20147
IT

18-2A-44 (hex) HIROSE ELECTRONIC SYSTEM
182A44 (base 16) HIROSE ELECTRONIC SYSTEM
1-9-6 Ebisuminami
Shibuya Tokyo 150-0022
JP

FC-94-CE (hex) zte corporation
FC94CE (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China

shenzhen guangdong 518057
CN

0C-EC-84 (hex) Shenzhen TINNO Mobile Technology Corp.
0CEC84 (base 16) Shenzhen TINNO Mobile Technology Corp.
Building, No.33, Xiandong Rd, Xili
Nanshan District, Shenzhen PRC 518053
CN

9C-DB-07 (hex) Yellowtec GmbH
9CDB07 (base 16) Yellowtec GmbH
Heinrich-Hertz-Strasse 1-3
Monheim am Rhein NRW 40789
DE

28-EC-9A (hex) Texas Instruments
28EC9A (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

C4-E5-06 (hex) Piper Networks, Inc.
C4E506 (base 16) Piper Networks, Inc.
3636
Nobel Drive
San Diego CA 92122
US

0C-D0-F8 (hex) Cisco Systems, Inc
0CD0F8 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

DC-DA-80 (hex) New H3C Technologies Co., Ltd
DCDA80 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

B8-25-9A (hex) Thalmic Labs
B8259A (base 16) Thalmic Labs
24 Charles Street West
Kitchener Ontario N2G 1H2
CA

30-EB-5A (hex) LANDIS + GYR
30EB5A (base 16) LANDIS + GYR

78th km Old National Road Athens-Corinth
Corinth 20100
GR

F8-0F-6F (hex) Cisco Systems, Inc
F80F6F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-80-E3 (hex) CORAL NETWORK CORPORATION
0080E3 (base 16) CORAL NETWORK CORPORATION
(NOW BAY NETWORKS)
SANTA CLARA CA 95052-8185
US

D8-F2-CA (hex) Intel Corporate
D8F2CA (base 16) Intel Corporate
Lot
8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

B4-C6-2E (hex) Molex CMS
B4C62E (base 16) Molex CMS
2222 Wellington Court
Lisle IL 60532
US

28-25-36 (hex) SHENZHEN HOLATEK CO.,LTD
282536 (base 16) SHENZHEN HOLATEK CO.,LTD
Rm.1001,Unit 4,Bld.B,Kexing Science Park,Keyuan Road, Nanshan District
Shenzhen Guangdong 518000
CN

B8-A1-75 (hex) Roku, Inc.
B8A175 (base 16) Roku, Inc.
12980 Saratoga Ave
Saratoga CA 95070
US

CC-D3-C1 (hex) Vestel Elektronik San ve Tic. A.S.
CCD3C1 (base 16) Vestel Elektronik San ve Tic. A.S.
Organize san
Manisa Turket 45030
TR

A4-26-55 (hex) LTI Motion (Shanghai) Co., Ltd.

A42655 (base 16) LTI Motion (Shanghai) Co., Ltd.
NO.80, Lane 2927, LaiYang Road Pudong New District
Shanghai Shanghai 200137
CN

60-A7-30 (hex) Shenzhen Yipinfang Internet Technology Co.,Ltd
60A730 (base 16) Shenzhen Yipinfang Internet Technology Co.,Ltd
Shenzhen
Konka R & D Building, 28th floor 21
GuangDong Nanshan District 518000
CN

3C-9B-D6 (hex) Vizio, Inc
3C9BD6 (base 16) Vizio, Inc
39 Tesla
Irvine CA 92618
US

50-DB-3F (hex) SHENZHEN GONGJIN ELECTRONICS CO.,LT
50DB3F (base 16) SHENZHEN GONGJIN ELECTRONICS CO.,LT
SONGGANG
SHENZHEN GUANGDONG 518105
CN

10-81-B4 (hex) Hunan Greatwall Galaxy Science and Technology Co.,Ltd.
1081B4 (base 16) Hunan Greatwall Galaxy Science and Technology Co.,Ltd.
No. 39, Jian Shan Road
Changsha Hunan 410205
CN

38-81-D7 (hex) Texas Instruments
3881D7 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

18-04-ED (hex) Texas Instruments
1804ED (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

D4-32-60 (hex) GoPro
D43260 (base 16) GoPro
3000 Clearview Way
San Mateo CA 94402
US

F4-DD-9E (hex) GoPro
F4DD9E (base 16) GoPro
3000 Clearview
Way
San Mateo CA 94402
US

D4-D9-19 (hex) GoPro
D4D919 (base 16) GoPro
3000 Clearview Way
San Mateo CA 94402
US

CC-72-86 (hex) Xi'an Fengyu Information Technology Co., Ltd.
CC7286 (base 16) Xi'an Fengyu Information Technology Co., Ltd.
5F, Block A, STRC, No.10, Zhangba 5th Road, Yanta
Xi'an Shaanxi 710077
CN

6C-A9-28 (hex) HMD Global Oy
6CA928 (base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo 02600
FI

00-D8-61 (hex) Micro-Star INTL CO., LTD.
00D861 (base 16) Micro-Star INTL CO., LTD.
No.69, Lide St.,
New Taipei City Taiwan 235
TW

74-C1-7D (hex) Infinix mobility limited
74C17D (base 16) Infinix mobility limited
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
HongKong HongKong 999077
HK

88-71-B1 (hex) ARRIS Group, Inc.
8871B1 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

F0-AF-85
(hex) ARRIS Group, Inc.
F0AF85 (base 16) ARRIS Group, Inc.
6450 Sequence Drive

San Diego CA 92121
US

FC-AE-34 (hex) ARRIS Group, Inc.
FCAE34 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

14-11-14 (hex) TECNO MOBILE LIMITED
141114 (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

00-B8-B3 (hex) Cisco Systems, Inc
00B8B3 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

74-5F-90 (hex) LAM Technologies
745F90 (base 16) LAM Technologies
Viale Ludovico Ariosto, 492/D
Sesto Fiorentino FIRENZE 50019
IT

F8-5B-9C (hex) SB SYSTEMS Co.,Ltd
F85B9C (base 16) SB SYSTEMS Co.,Ltd
2F Ventureforum, 323, Pangyo-ro, Bundang-gu
Seongnam-si Gyeonngi-do 453-400
KR

00-42-79 (hex) Sunitec Enterprise Co.,Ltd
004279 (base 16) Sunitec Enterprise Co.,Ltd
3F.,No.98-1,Mincyuan Rd.Sindian City
Taipei County 231 231141
CN

A4-50-46 (hex) Xiaomi Communications Co Ltd
A45046 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

F8-50-1C (hex) Tianjin Geneuo Technology Co.,Ltd

F8501C (base 16) Tianjin Geneuo Technology Co.,Ltd
Technology Avenue South JingHai Economic Development Area,Tianjin China
Tianjin 301609
CN

70-D3-13 (hex) HUAWEI TECHNOLOGIES CO.,LTD
70D313 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

9C-1D-36 (hex) HUAWEI TECHNOLOGIES CO.,LTD
9C1D36 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

CC-BB-FE (hex) HUAWEI TECHNOLOGIES CO.,LTD
CCBBFE
(base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

44-07-0B (hex) Google, Inc.
44070B (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

EC-F6-BD (hex) SNCF MOBILITÉS
ECF6BD (base 16) SNCF MOBILITÉS
9 rue Jean-Philippe Rameau
SAINT-DENIS 93200
FR

B8-31-B5 (hex) Microsoft Corporation
B831B5 (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

00-7C-2D (hex) Samsung Electronics Co.,Ltd
007C2D (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

38-B4-D3 (hex) BSH Hausgeraete GmbH
38B4D3 (base 16) BSH Hausgeraete GmbH
Im Gewerbepark B10
Regensburg 93059
DE

C8-47-82 (hex) Areson Technology Corp.
C84782 (base 16) Areson Technology Corp.
11F., No. 646, Sec. 5, Chongxin Rd., Sanchong District
New
Taipei City 24158
TW

E8-93-63 (hex) Nokia
E89363 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

7C-0C-F6 (hex) Guangdong Huiwei High-tech Co., Ltd.
7C0CF6 (base 16) Guangdong Huiwei High-tech Co., Ltd.
E Block No. 1 in Ecological Area in Puzhai NewArea
Fengshun County, Meizhou Guangdong province 514000
CN

20-AD-56 (hex) Continental Automotive Systems Inc.
20AD56 (base 16) Continental Automotive Systems Inc.
21440 W. Lake Cook Rd.
Deer Park IL 60010
US

50-29-F5 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
5029F5 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

30-0A-60 (hex) IEEE Registration Authority
300A60 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

80-D0-65 (hex) CKS Corporation
80D065 (base 16) CKS Corporation
1-24-11 Akebono
Tachikawa

Tokyo 190-0012
JP

00-D6-FE (hex) Cisco Systems, Inc
00D6FE (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

0C-BF-74 (hex) Morse Micro
0CBF74 (base 16) Morse Micro
113 / 2-4 Cornwallis Street
Eveleigh NSW 2015
AU

B4-1D-2B (hex) Shenzhen YOUHUA Technology Co., Ltd
B41D2B (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

14-C2-13 (hex) Apple, Inc.
14C213 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

FC-8F-7D (hex) SHENZHEN GONGJIN ELECTRONICS CO.,LT
FC8F7D (base 16) SHENZHEN GONGJIN ELECTRONICS CO.,LT
SONGGANG
SHENZHEN GUANGDONG 518105
CN

24-BE-18 (hex) DADOUTEK COMPANY LIMITED
24BE18 (base 16) DADOUTEK COMPANY LIMITED
14/F, Wilson Logistics Centre,No.24-28 Kung Yip St
Kwai Chung New Territories
000
CN

74-9D-79 (hex) Sercomm Corporation.
749D79 (base 16) Sercomm Corporation.
3F,No.81,Yu-Yih Rd.,Chu-Nan Chen
Miao-Lih Hsuan 115
TW

A4-D9-31 (hex) Apple, Inc.
A4D931 (base 16) Apple, Inc.

1 Infinite Loop
Cupertino CA 95014
US

BC-FE-D9 (hex) Apple, Inc.
BCFED9 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

80-82-23 (hex) Apple, Inc.
808223 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

CC-08-FB (hex) TP-LINK TECHNOLOGIES CO.,LTD.
CC08FB (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

BC-AF-91 (hex) TE Connectivity Sensor Solutions
BCAF91 (base 16) TE Connectivity Sensor Solutions
4 rue Gaye-Marie, CS 83163
Toulouse 31027
FR

28-31-66 (hex) vivo Mobile Communication Co., Ltd.
283166
(base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

C0-40-04 (hex) Medicaroid Corporation
C04004 (base 16) Medicaroid Corporation
1-6-4, Minatojima-minamimachi, Chuo-ku
Kobe 650-0047
JP

A4-ED-43 (hex) IEEE Registration Authority
A4ED43 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

94-29-8D (hex) Shanghai AdaptComm Technology Co., Ltd.

94298D (base 16) Shanghai AdaptComm Technology Co., Ltd.
3rd Floor, Building 14, No. 518 Xinzhuan Road, Songjiang District,
Shanghai 201600
CN

00-AA-6E (hex) Cisco Systems, Inc
00AA6E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

F0-D7-DC (hex) Wesine (Wuhan) Technology Co., Ltd.
F0D7DC (base 16) Wesine (Wuhan) Technology Co., Ltd.
10th Floor, Building 2, SBI Venture Street, Hongshan District
Wuhan Hubei 430074
CN

00-72-04
(hex) Samsung Electronics Co., Ltd. ARTIK
007204 (base 16) Samsung Electronics Co., Ltd. ARTIK
1-1, Samsungjeonja-ro
Hwaseong-si Gyeonggi-do 18448
KR

40-C8-1F (hex) Shenzhen Xinguodu Technology Co., Ltd.
40C81F (base 16) Shenzhen Xinguodu Technology Co., Ltd.
F17A, JinSong Building, Tairan Industrial & Trade Park, Chegongmiao, Shennan RoadFutian District
Shenzhen Guangdong 518040
CN

0C-7C-28 (hex) Nokia Solutions and Networks GmbH & Co. KG
0C7C28 (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541
DE

68-43-D7 (hex) Agilecom Photonics Solutions Guangdong Limited
6843D7 (base 16) Agilecom Photonics Solutions Guangdong Limited
No.1-6, Shenwan Industrial Park, Shenwan Town
Zhongshan Guangdong 528462
CN

B8-6A-97 (hex) Edgecore Networks Corporation
B86A97 (base 16) Edgecore Networks Corporation
1 Creation RD 3.
Hsinchu 30077
TW

A8-10-87
(hex) Texas Instruments
A81087 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

8C-61-A3 (hex) ARRIS Group, Inc.
8C61A3 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

8C-8F-8B (hex) China Mobile Chongqing branch
8C8F8B (base 16) China Mobile Chongqing branch
6 building, No. 2, Xingguang three road
Yubei District Chongqing 401120
CN

14-59-C0 (hex) NETGEAR
1459C0 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

00-04-0B (hex) 3COM EUROPE LTD
00040B (base 16) 3COM EUROPE LTD
BOUNDARY WAY
vvvvv UNITED KINGDOM
GB

C8-C2-F5 (hex) FLEXTRONICS MANUFACTURING(ZHUHAI)CO.,LTD.
C8C2F5 (base 16) FLEXTRONICS MANUFACTURING(ZHUHAI)CO.,LTD.
Xin Qing Science & Technology Industrial Park,Jin An Town,Doumen ,Zhuhai,Guangdong,PRC
Zhuhai Guangdong 519180
CN

F0-58-49 (hex) CareView Communications
F05849
(base 16) CareView Communications
405 State HWY 121 BYP
Lewisville Texas 75067
US

8C-FE-74 (hex) Ruckus Wireless
8CFE74 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089

US

60-4B-AA (hex) Magic Leap, Inc.
604BAA (base 16) Magic Leap, Inc.
1855 Griffin Rd, Room B454
Dania Beach FL 33004
US

4C-01-43 (hex) eero inc.
4C0143 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

E4-34-93 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E43493 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

34-29-12 (hex) HUAWEI TECHNOLOGIES CO.,LTD
342912 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

48-A4-72 (hex) Intel Corporate
48A472 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-0A-5E
(hex) 3COM
000A5E (base 16) 3COM
5400 Bayfront Plaza
Santa Clara CA 95052-8145
US

00-10-5A (hex) 3COM
00105A (base 16) 3COM
5400 BAYFRONT PLAZA
SANTA CLARA CA 95052
US

00-60-97 (hex) 3COM
006097 (base 16) 3COM
5400 BAYFRONT PLAZA

SANTA CLARA CA 95052
US

00-60-08 (hex) 3COM
006008 (base 16) 3COM
5400 BAYFRONT PLAZA
SANTA CLARA CA 95052
US

00-01-02 (hex) 3COM
000102 (base 16) 3COM
5400 BAYFRONT PLAZA
SANTA CLARA CA 95052
US

A0-28-33 (hex) IEEE Registration Authority
A02833 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

00-1B-6E (hex) Keysight Technologies, Inc.
001B6E (base 16) Keysight Technologies, Inc.
1400 Fountaingrove Pkwy.
Santa Rosa CA 95403
US

14-37-19 (hex) PT Prakarsa Visi Valutama
143719 (base 16) PT Prakarsa Visi Valutama
Jl. Cideng Timur No.11D
Jakarta Pusat Indonesia
10130
ID

58-2F-40 (hex) Nintendo Co.,Ltd
582F40 (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

08-90-BA (hex) Danlaw Inc
0890BA (base 16) Danlaw Inc
23700 research Dr.
Farmington Hills 48335
US

4C-36-4E (hex) Panasonic Connect Co., Ltd.
4C364E (base 16) Panasonic Connect Co., Ltd.

4-1-62 Minoshima, Hakata-ku
Fukuoka-shi Fukuoka 812-8531
JP

BC-A5-8B (hex) Samsung Electronics Co.,Ltd
BCA58B (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

80-CE-B9 (hex) Samsung Electronics Co.,Ltd
80CEB9 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

E8-5D-86 (hex) CHANG YOW TECHNOLOGIES INTERNATIONAL CO.,LTD.
E85D86 (base 16) CHANG YOW TECHNOLOGIES INTERNATIONAL CO.,LTD.
No 88 Shuren 6th St Wufong District
Taichung 413
TW

94-A3-CA (hex) KonnectONE,
LLC
94A3CA (base 16) KonnectONE, LLC
30 N Gould Street STE 4004
Sheridan WY 82801
US

D0-D3-FC (hex) Mios, Ltd.
D0D3FC (base 16) Mios, Ltd.
645 W. 9th St.
Los Angeles CA 90015
US

6C-6C-D3 (hex) Cisco Systems, Inc
6C6CD3 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E0-49-ED (hex) Audeze LLC
E049ED (base 16) Audeze LLC
3410 S Susan st
Santa Ana CA 92704
US

00-01-57 (hex) SYSWAVE CO., LTD

000157 (base 16) SYSWAVE CO., LTD
Dongho B/D 5F, 221-2
KOREA 135-010
KR

A8-01-6D (hex) Aiwa Corporation
A8016D (base 16) Aiwa Corporation
965 W Chicago Ave
Chicago IL 60642
US

04-40-A9 (hex) New H3C Technologies Co., Ltd
0440A9 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

80-30-E0 (hex) Hewlett Packard Enterprise
8030E0 (base 16) Hewlett Packard Enterprise
8000
Foothills Blvd.
Roseville CA 95747
US

24-4C-E3 (hex) Amazon Technologies Inc.
244CE3 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno 89507
US

B8-BE-F4 (hex) devolo AG
B8BEF4 (base 16) devolo AG
Charlottenburger Allee 67
Aachen NRW 52068
DE

58-FD-BE (hex) Shenzhen Taikaida Technology Co., Ltd
58FDBE (base 16) Shenzhen Taikaida Technology Co., Ltd
Shenzhen Baoan District Fuyong town Fengtang road Xintian building 613
shenzhen 518102
CN

F4-F1-97 (hex) EMTAKE Inc
F4F197 (base 16) EMTAKE Inc
14, Pangyoyeok ro 192, Bundang gu
Seongnam city Kyeonggi do 13524
KR

6C-ED-51 (hex) NEXCONTROL Co.,Ltd
6CED51 (base 16) NEXCONTROL Co.,Ltd
(#303-1007, Ssangyong 3th) 397, Seokcheon-ro
Bucheon-si Gyeonggi-do 14449
KR

10-62-E5 (hex) Hewlett Packard
1062E5 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston TX 77070
US

04-C3-E6 (hex) IEEE
Registration Authority
04C3E6 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

98-BB-99 (hex) Phicomm (Sichuan) Co.,Ltd.
98BB99 (base 16) Phicomm (Sichuan) Co.,Ltd.
125 longquan street park road,longquan district,chengdu city
Sichuan Chengdu 610015
CN

00-26-22 (hex) COMPAL INFORMATION (KUNSHAN) CO., LTD.
002622 (base 16) COMPAL INFORMATION (KUNSHAN) CO., LTD.
NO. 25, THE 3RD Street KUNSHAN EXPORT PROCESSING ZONE
KUNSHAN SUZHOU 215300
CN

00-20-B5 (hex) YASKAWA ELECTRIC CORPORATION
0020B5 (base 16) YASKAWA ELECTRIC CORPORATION
2-1 Kurosakishiroishi, Yahatanishi-ku,
Kitakyushu 806-0004
JP

28-63-36 (hex) Siemens AG
286336 (base 16) Siemens AG
Werner-von-Siemens Strasse 50
Amberg 92224
DE

14-D1-69 (hex) HUAWEI TECHNOLOGIES CO.,LTD
14D169 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan

523808
CN

1C-C3-EB (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
1CC3EB (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

F4-60-E2 (hex) Xiaomi Communications Co Ltd
F460E2 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

E4-D1-24 (hex) Mojo Networks, Inc.
E4D124 (base 16) Mojo Networks, Inc.
339 N.Bernardo Ave
Mountain View CA 94043
US

9C-C9-50 (hex) Baumer Holding
9CC950 (base 16) Baumer Holding
Hummelstrasse 17
Frauenfeld Thurgau 8501
CH

F8-99-10 (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
F89910 (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

50-E0-EF (hex) Nokia
50E0EF (base 16) Nokia
600 March
Road
Kanata Ontario K2K 2E6
CA

60-F1-8A (hex) HUAWEI TECHNOLOGIES CO.,LTD
60F18A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C4-95-00 (hex) Amazon Technologies Inc.
C49500 (base 16) Amazon Technologies Inc.

P.O Box 8102
Reno NV 89507
US

68-DD-26 (hex) Shanghai Focus Vision Security Technology Co.,Ltd
68DD26 (base 16) Shanghai Focus Vision Security Technology Co.,Ltd
No.4888 Hunan Rd, Pudong New District
Shanghai Shanghai 201317
CN

28-66-E3 (hex) AzureWave Technology Inc.
2866E3 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

84-8A-8D (hex) Cisco Systems, Inc
848A8D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E0-62-67 (hex) Xiaomi Communications Co Ltd
E06267 (base 16) Xiaomi Communications Co Ltd
The Rainbow
City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

70-B7-AA (hex) vivo Mobile Communication Co., Ltd.
70B7AA (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

00-13-A3 (hex) Siemens Home & Office Comm. Devices
0013A3 (base 16) Siemens Home & Office Comm. Devices
4849 Alpha Road
Dallas 75244
US

08-25-25 (hex) Xiaomi Communications Co Ltd
082525 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

B0-B8-67 (hex) Hewlett Packard Enterprise

B0B867 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

84-B3-1B (hex) Kinexon GmbH
84B31B (base 16) Kinexon GmbH
Schellingstrasse, 35
München 80799
DE

F8-27-2E (hex) Mercku
F8272E (base 16) Mercku
509 Beaver
Creek Rd.
Waterloo Ontario N2V 2L3
CA

CC-50-E3 (hex) Espressif Inc.
CC50E3 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

A8-3E-0E (hex) HMD Global Oy
A83E0E (base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo 02600
FI

10-C1-72 (hex) HUAWEI TECHNOLOGIES CO.,LTD
10C172 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-0E-EE (hex) Muco Industrie BV
000EEE (base 16) Muco Industrie BV
Pleimuiden 12e
Amsterdam NH 1046 AG
NL

7C-1C-4E (hex) LG Innotek
7C1C4E (base 16) LG Innotek
26, Hanamsandan 5beon-ro
Gwangju Gwangsan-gu 506-731
KR

D8-B6-B7 (hex) Comtrend Corporation
D8B6B7 (base 16) Comtrend Corporation
3F-1, 10 Lane 609, Chongxin Road, Section 5,
New Taipei City, Taiwan 24159
TW

8C-14-B4 (hex) zte corporation
8C14B4
(base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

3C-98-72 (hex) Sercomm Corporation.
3C9872 (base 16) Sercomm Corporation.
3F,No.81,Yu-Yih Rd.,Chu-Nan Chen
Miao-Lih Hsuan 115
TW

40-C3-C6 (hex) SnapRoute
40C3C6 (base 16) SnapRoute
3960 Freedom Circle, Suite 100
Santa Clara CA 95054
US

D0-1C-BB (hex) Beijing Ctimes Digital Technology Co., Ltd.
D01CBB (base 16) Beijing Ctimes Digital Technology Co., Ltd.
7th Floor, Jinzhou Building, Suzhou Street, No.79, Haidian District,
Beijing 100089
CN

74-87-BB (hex) Ciena Corporation
7487BB (base 16) Ciena Corporation
7035 Ridge Road
Hanover MD 21076
US

C0-B6-F9 (hex) Intel Corporate
C0B6F9 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

DC-E3-05 (hex) AO
DCE305 (base 16) AO
Prospekt Mira
Moscow 129223
RU

A4-DA-32
(hex) Texas Instruments
A4DA32 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

78-04-73 (hex) Texas Instruments
780473 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

50-4C-7E (hex) THE 41ST INSTITUTE OF CETC
504C7E (base 16) THE 41ST INSTITUTE OF CETC
No.98 Xiangjiang Road,Huangdao District,Qingdao,Shandong
Qingdao Shangdong 266555
CN

2C-47-59 (hex) Beijing MEGA preponderance Science & Technology Co. Ltd
2C4759 (base 16) Beijing MEGA preponderance Science & Technology Co. Ltd
Room 2201,No.8,Ruichuang International B Block,Wangjing East Road
Beijing 100102
CN

DC-E0-EB (hex) Nanjing Aozheng Information Technology Co.Ltd
DCE0EB (base 16) Nanjing Aozheng Information Technology Co.Ltd
#E1-453, Zidong Road #1,Qixia District
Nanjing jiangsu 210000
CN

00-15-1E (hex) ETHERNET Powerlink Standarization Group (EPSG)
00151E (base 16) ETHERNET
Powerlink Standarization Group (EPSG)
c/o Zurich University of Applied Sciences
Winterthur CH-8401
CH

00-11-1E (hex) ETHERNET Powerlink Standarization Group (EPSG)
00111E (base 16) ETHERNET Powerlink Standarization Group (EPSG)
c/o University of Applied Sciences
Winterthur ZH CH-8401
CH

00-40-9D (hex) DigiBoard
00409D (base 16) DigiBoard
6400 FLYING CLOUD DRIVE

EDEN PRAIRIE MN 55344
US

14-93-46 (hex) PNI sensor corporation
149346 (base 16) PNI sensor corporation
2331 Circadian Way
Santa Rosa CA 95407
US

00-13-8A (hex) Qingdao GoerTek Technology Co., Ltd.
00138A (base 16) Qingdao GoerTek Technology Co., Ltd.
Room 605,Innovation Building,Hi-tech Industrial Park,
QINGDAO SHANDONG 266061
CN

A8-30-AD (hex) WEIFANG GOERTEK ELECTRONICS CO.,LTD
A830AD (base 16) WEIFANG GOERTEK ELECTRONICS CO.,LTD
Wei fang Export processing Zone
Wei Fang Shan Dong 261205
CN

A4-15-66
(hex) WEIFANG GOERTEK ELECTRONICS CO.,LTD
A41566 (base 16) WEIFANG GOERTEK ELECTRONICS CO.,LTD
Wei fang Export processing Zone
Wei Fang Shan Dong 261205
CN

1C-96-5A (hex) WEIFANG GOERTEK ELECTRONICS CO.,LTD
1C965A (base 16) WEIFANG GOERTEK ELECTRONICS CO.,LTD
Gaoxin 2 Road,Free Trade Zone,Weifang,Shandong,261205,P.R.China
Wei Fang Shan Dong 261205
CN

40-1B-5F (hex) WEIFANG GOERTEK ELECTRONICS CO.,LTD
401B5F (base 16) WEIFANG GOERTEK ELECTRONICS CO.,LTD
Gaoxin 2 Road,Free Trade Zone,Weifang,Shandong,261205,P.R.China
Weifang Shandong 261205
CN

14-4F-8A (hex) Intel Corporate
144F8A (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-21-06 (hex) RIM Testing Services
002106 (base 16) RIM Testing Services

440 Phillip Street
Waterloo ON N2L 5R9
CA

5C-CD-7C (hex) MEIZU Technology Co.,Ltd.
5CCD7C (base 16) MEIZU Technology Co.,Ltd.
MEIZU
Tech Bldg., Technology& Innovation Coast
Zhuhai Guangdong 519085
CN

5C-96-56 (hex) AzureWave Technology Inc.
5C9656 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

E0-60-66 (hex) Sercomm Corporation.
E06066 (base 16) Sercomm Corporation.
3F,No.81,Yu-Yih Rd.,Chu-Nan Chen
Miao-Lih Hsuan 115
TW

BC-5F-F6 (hex) MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
BC5FF6 (base 16) MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
Mid-Fourth Flr.,Building 28,Cui Xi Fourth Road,Ke Yuan West,Nanshan
Shenzhen Guangdong 518057
CN

C8-E7-D8 (hex) MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
C8E7D8 (base 16) MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
Mid-Fourth Flr., Building 28, Cui Xi Fourth RoadKe Yuan West,Nanshan
Shenzhen Guangdong 518057
CN

A8-E5-52 (hex) JUWEL Aquarium AG & Co. KG
A8E552 (base 16) JUWEL Aquarium AG & Co. KG
Karl-Göx-Straße 1
Rotenburg
/ Wümme 27356
DE

60-D2-1C (hex) Sunnovo International Limited
60D21C (base 16) Sunnovo International Limited
1717 Haitai Building
Beijing Beijing 100083
CN

CC-51-B4 (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
CC51B4 (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

00-C3-F4 (hex) Samsung Electronics Co.,Ltd
00C3F4 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

B8-8A-EC (hex) Nintendo Co.,Ltd
B88AEC (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

78-72-5D (hex) Cisco Systems, Inc
78725D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

B4-6B-FC (hex) Intel Corporate
B46BFC (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

B0-FC-0D
(hex) Amazon Technologies Inc.
B0FC0D (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

CC-C9-2C (hex) Schindler - PORT Technology
CCC92C (base 16) Schindler - PORT Technology
via della Pace 22
Locarno Ticino 6600
CH

00-1E-39 (hex) Comsys Communication Ltd.
001E39 (base 16) Comsys Communication Ltd.
9 Hamenofim st.
Herzelia 46725
IL

EC-8C-9A (hex) HUAWEI TECHNOLOGIES CO.,LTD
EC8C9A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B4-86-55 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B48655 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D0-D7-83 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D0D783 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

AC-3B-77
(hex) Sagemcom Broadband SAS
AC3B77 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

FC-E6-6A (hex) Industrial Software Co
FCE66A (base 16) Industrial Software Co
85, Aleksandyr Malinov Blvd. Office 6
Sofia 1715
BG

78-36-CC (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
7836CC (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

70-C8-33 (hex) Wirepas Oy
70C833 (base 16) Wirepas Oy
Visiokatu 4
Tampere 33720
FI

0C-73-EB (hex) IEEE Registration Authority
0C73EB (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554

US

F0-B5-D1 (hex) Texas Instruments
F0B5D1 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

00-E0-00 (hex) FUJITSU LIMITED
00E000 (base 16) FUJITSU LIMITED
403, Kosugi-cho 1-chome,
Nakahara-ku
Kawasaki Kanagawa 211-0063
JP

90-84-8B (hex) HDR10+ Technologies, LLC
90848B (base 16) HDR10+ Technologies, LLC
3855 SW 153rd Drive
Beaverton OR 97006
US

0C-F5-A4 (hex) Cisco Systems, Inc
0CF5A4 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

80-C7-C5 (hex) Fiberhome Telecommunication Technologies Co.,LTD
80C7C5 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

28-16-A8 (hex) Microsoft Corporation
2816A8 (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

F8-F5-32 (hex) ARRIS Group, Inc.
F8F532 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

04-8A-E1 (hex) FLEXTRONICS MANUFACTURING(ZHUHAI)CO.,LTD.
048AE1 (base 16) FLEXTRONICS MANUFACTURING(ZHUHAI)CO.,LTD.
Xin Qing Science & Technology Industrial Park,Jin An Town,Doumen ,Zhuhai,Guangdong,PRC

Zhuhai
Guangdong 519180
CN

8C-CF-5C (hex) BEFEGA GmbH
8CCF5C (base 16) BEFEGA GmbH
Reichenbacher Str. 22
Schwabach Bavaria 91126
DE

50-1D-93 (hex) HUAWEI TECHNOLOGIES CO.,LTD
501D93 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C8-D7-79 (hex) QING DAO HAIER TELECOM CO.,LTD.
C8D779 (base 16) QING DAO HAIER TELECOM CO.,LTD.
No 1 Haier road,Hi-tech ZoneQingdaoPR.China
Qingdao Shandong 266101
CN

10-B3-6F (hex) Bowei Technology Company Limited
10B36F (base 16) Bowei Technology Company Limited
2F,Building No.6C,1658,Gumei Rd
Shanghai Shanghai 200233
CN

FC-9B-C6 (hex) Sumavision Technologies Co.,Ltd
FC9BC6 (base 16) Sumavision Technologies Co.,Ltd
6F, Block A2, Power Creative Building,No.1 Shangdi East Road, Haidian District
Beijing 100085
CN

C8-29-2A (hex) Barun Electronics
C8292A
(base 16) Barun Electronics
869, Jangji-ri, Dongtan-myeon
Hwaseong-si Gyeonggi-do 445812
KR

00-80-BA (hex) SPECIALIX (ASIA) PTE, LTD
0080BA (base 16) SPECIALIX (ASIA) PTE, LTD
3 WINTERSELLS ROAD
UNITED KINGDOM
US

48-0B-B2 (hex) IEEE Registration Authority

480BB2 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

CC-C0-79 (hex) Murata Manufacturing Co., Ltd.
CCC079 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

F0-9C-D7 (hex) Guangzhou Blue Cheetah Intelligent Technology Co., Ltd.
F09CD7 (base 16) Guangzhou Blue Cheetah Intelligent Technology Co., Ltd.
Panyu District, Guangzhou City Panyu Avenue North 555 Panyu Energy Technology Park,Industry Building 2 seats 406-407
Guangzhou Guangdong 511400
CN

BC-E1-43 (hex) Apple, Inc.
BCE143 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino
CA 95014
US

E4-82-CC (hex) Jumptronic GmbH
E482CC (base 16) Jumptronic GmbH
An der Weide 5
Springe 31832
DE

B0-83-D6 (hex) ARRIS Group, Inc.
B083D6 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

B0-41-6F (hex) Shenzhen Maxtang Computer Co.,Ltd
B0416F (base 16) Shenzhen Maxtang Computer Co.,Ltd
6/F, Bldg.3, Honghui Industrial Park, Liuxian 2nd Rd., Bao'an Dist.
Shenzhen Guangdong 518101
CN

E0-19-D8 (hex) BH TECHNOLOGIES
E019D8 (base 16) BH TECHNOLOGIES
12 RUE AMPERE
GRENOBLE 38000
FR

48-60-5F (hex) LG Electronics (Mobile Communications)
48605F (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

30-D9-D9 (hex) Apple, Inc.
30D9D9 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

60-30-D4 (hex) Apple, Inc.
6030D4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino
CA 95014
US

F8-95-EA (hex) Apple, Inc.
F895EA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

18-F1-D8 (hex) Apple, Inc.
18F1D8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

64-70-33 (hex) Apple, Inc.
647033 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

84-68-78 (hex) Apple, Inc.
846878 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C8-D0-83 (hex) Apple, Inc.
C8D083 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

8C-4C-DC (hex) PLANEX COMMUNICATIONS INC.
8C4CDC (base 16) PLANEX COMMUNICATIONS INC.
Planex Volta Bldg., 2-11-9 Ebisu-Nishi,Shibuya-ku,Tokyo 150-0021,Japan
Tokyo Tokyo 150-0021
JP

BC-AB-7C (hex) TRnP KOREA Co Ltd
BCAB7C (base 16) TRnP KOREA Co Ltd
room1308,239 SoHyungRo,WonMiGu,
BuChunCity KyungKiDo 1135
KR

6C-38-38 (hex) Marking System
Technology Co., Ltd.
6C3838 (base 16) Marking System Technology Co., Ltd.
76-1, Hirakawa Yokomichi
Joyo-shi Kyoto 610-0101
JP

9C-2E-A1 (hex) Xiaomi Communications Co Ltd
9C2EA1 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

0C-6A-BC (hex) Fiberhome Telecommunication Technologies Co.,LTD
0C6ABC (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

08-97-34 (hex) Hewlett Packard Enterprise
089734 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

3C-CD-5D (hex) HUAWEI TECHNOLOGIES CO.,LTD
3CCD5D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

7C-76-68 (hex) HUAWEI TECHNOLOGIES CO.,LTD
7C7668 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2

Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-13-86 (hex) ABB Inc/Totalflow
001386 (base 16) ABB Inc/Totalflow
123
Bartlesville OK 74006
US

00-3C-10 (hex) Cisco Systems, Inc
003C10 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

F0-41-C8 (hex) IEEE Registration Authority
F041C8 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

CC-99-16 (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
CC9916 (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

EC-7F-C6 (hex) ECCEL CORPORATION SAS
EC7FC6 (base 16) ECCEL CORPORATION SAS
CRA 106 15A 25 LT 88 MZ 17 BG 1, ZONA FRANCA BOGOTA
BOGOTA D.C. 110921
CO

A4-38-CC (hex) Nintendo Co.,Ltd
A438CC (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO
KYOTO 601-8501
JP

74-72-1E (hex) Edison Labs Inc.
74721E (base 16) Edison Labs Inc.
1122 Stanyan St
San Francisco CA 94117
US

78-0F-77 (hex) HangZhou Gubei Electronics Technology Co.,Ltd

780F77 (base 16) HangZhou Gubei Electronics Technology Co.,Ltd
HangZhou City, Zhejiang province Binjiang District Jiang Hong Road 611 Building 1 room 106
Hangzhou ZheJiang 310052
CN

4C-AB-FC (hex) zte corporation
4CABFC (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

7C-2A-31 (hex) Intel Corporate
7C2A31 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

0C-F3-46 (hex) Xiaomi Communications Co Ltd
0CF346 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

7C-FF-4D (hex) AVM Audiovisuelles Marketing und Computersysteme GmbH
7CFF4D (base 16) AVM Audiovisuelles Marketing und Computersysteme GmbH
Alt-Moabit 95
Berlin Berlin 10559
DE

74-70-FD (hex) Intel Corporate
7470FD (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

50-65-F3 (hex) Hewlett Packard
5065F3 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

3C-95-09 (hex) Liteon Technology Corporation
3C9509 (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

30-FD-38 (hex) Google, Inc.
30FD38 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

64-CB-5D (hex) SIA TeleSet
64CB5D (base 16) SIA TeleSet
Krslavas iela 5
Vecstropi, Naujenes par., Daugavpils distr. LV-5413
LV

58-21-E9 (hex) TWPI
5821E9 (base 16) TWPI
PMB# 335; 1121 Annapolis Road
Odenton MD 21113
US

F0-E3-DC (hex) Tecon MT,
LLC
F0E3DC (base 16) Tecon MT, LLC
3rd Khoroshevskaya st - 20
Moscow 123298
RU

A8-DA-01 (hex) Shenzhen NUOLIJIA Digital Technology Co.,Ltd
A8DA01 (base 16) Shenzhen NUOLIJIA Digital Technology Co.,Ltd
A Area of The Second Flood and D Area of The First Floor,Factory Building A,Youxinda Industrial Park,Gengyu Road,Tianliao Community,Gongming Street Office,Guangming New District,Shenzhen City,Guangdong,P.R.China
Shenzhen Guangdong 518000
CN

88-E9-0F (hex) innomdlelab
88E90F (base 16) innomdlelab
Unnam 1 gil, 3
Seocho-gu Seoul 06778
KR

00-10-D8 (hex) CALISTA
0010D8 (base 16) CALISTA
56A Packhorse Road
Bucks SL9 8EF ENGLAND
GB

00-21-94 (hex) Ping Communication
002194 (base 16) Ping Communication
Brenden 18
Appenzell Meistersrüte AI 9050

CH

18-94-C6 (hex) ShenZhen Chenyee Technology Co., Ltd.
1894C6 (base 16) ShenZhen Chenyee Technology Co., Ltd.
32F, Tower A, East
Pacific International Center, No.7888, Shennan Avenue, Futian District
Shenzhen 518040
CN

70-3A-73 (hex) Shenzhen Sundray Technologies Company Limited
703A73 (base 16) Shenzhen Sundray Technologies Company Limited
6th Floor,Block A1, Nanshan iPark, No.1001 XueYuan Road, Nanshan District
Shenzhen Guangdong 518057
CN

80-AD-16 (hex) Xiaomi Communications Co Ltd
80AD16 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

04-4E-AF (hex) LG Innotek
044EAF (base 16) LG Innotek
26, Hanamsandan 5beon-ro
Gwangju Gwangsan-gu 506-731
KR

98-D8-63 (hex) Shanghai High-Flying Electronics Technology Co., Ltd
98D863 (base 16) Shanghai High-Flying Electronics Technology Co., Ltd
Room 1002 ,#1Building,No.3000 Longdong Avenue,Pudong District,Shanghai,China
shanghai shanghai 201203
CN

C4-9F-4C (hex) HUAWEI TECHNOLOGIES
CO.,LTD
C49F4C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

0C-70-4A (hex) HUAWEI TECHNOLOGIES CO.,LTD
0C704A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

10-F9-EB (hex) Industria Fueguina de Relojería Electrónica s.a.
10F9EB (base 16) Industria Fueguina de Relojería Electrónica s.a.

Sarmiento 2920
Rio Grande Tierra de Fuego V9420GIV
AR

5C-5A-EA (hex) FORD
5C5AEA (base 16) FORD
17425 Federal Drive
Allen Park MI 48101
US

00-0B-7B (hex) Test-Um Inc.
000B7B (base 16) Test-Um Inc.
808 Calle Plano
Camarillo CA 93012
US

BC-DD-C2 (hex) Espressif Inc.
BCDDC2 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

C8-8F-26 (hex) Skyworth Digital Technology(Shenzhen) Co.,Ltd
C88F26
(base 16) Skyworth Digital Technology(Shenzhen) Co.,Ltd
7F,Block A,Skyworth Building,
Shenzhen Guangdong 518057
CN

20-36-5B (hex) Megafone Limited
20365B (base 16) Megafone Limited
Unit 702,7/F,Bankok Bank Building,NO.18 Bonham Strand West
Hong Kong 999077
HK

E8-DE-00 (hex) ChongQing GuanFang Technology Co.,LTD
E8DE00 (base 16) ChongQing GuanFang Technology Co.,LTD
2F, A District,No.3 Middle Section of Mount Huangshan Avenue
ChongQing ChongQing 401121
CN

FC-64-3A (hex) Samsung Electronics Co.,Ltd
FC643A (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-30-74 (hex) EQUIINET LTD.

003074 (base 16) EQUIINET LTD.
EDISON HOUSE
SWINDON, SN3 5JA
GB

EC-9B-8B (hex) Hewlett Packard Enterprise
EC9B8B (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

B0-B3-AD (hex) HUMAX Co., Ltd.
B0B3AD
(base 16) HUMAX Co., Ltd.
HUMAX Village, 216, Hwangsaeul-ro, Bu
Seongnam-si Gyeonggi-do 463-875
KR

40-BD-32 (hex) Texas Instruments
40BD32 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

CC-8E-71 (hex) Cisco Systems, Inc
CC8E71 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

70-D0-81 (hex) Beijing Netpower Technologies Inc.
70D081 (base 16) Beijing Netpower Technologies Inc.
Room 201, Block B, NO. 15 Building, EastZone
Courtyard10, Xibeiwang East Road Haidian District, Beijing 100094
CN

70-C9-4E (hex) Liteon Technology Corporation
70C94E (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

38-F5-54 (hex) HISENSE ELECTRIC CO.,LTD
38F554 (base 16) HISENSE ELECTRIC CO.,LTD
No. 218, Qianwangang Rd
Qingdao Shandong 266555
CN

18-A2-8A (hex) Essel-T Co., Ltd
18A28A (base
16) Essel-T Co., Ltd
1211 kranztechno, 388 Dunchon-daero
Seongnam-si Jungwon-gu, Gyeonggi-do 13403
KR

A8-51-5B (hex) Samsung Electronics Co.,Ltd
A8515B (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-19-36 (hex) STERLITE OPTICAL TECHNOLOGIES LIMITED
001936 (base 16) STERLITE OPTICAL TECHNOLOGIES LIMITED
E-1,E-2,&E-3
AURANGABAD MAHARASTRA 431136
IN

3C-E8-24 (hex) HUAWEI TECHNOLOGIES CO.,LTD
3CE824 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

54-B7-E5 (hex) Rayson Technology Co., Ltd.
54B7E5 (base 16) Rayson Technology Co., Ltd.
1F No.9 R&D Rd.II, Science-Based Industrial Park
Hsin-Chu 300
TW

94-63-72 (hex) vivo Mobile Communication Co., Ltd.
946372 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

BC-0F-A7
(hex) Ouster
BC0FA7 (base 16) Ouster
350 Treat Ave
San Francisco CA 94110
US

F0-C9-D1 (hex) GD Midea Air-Conditioning Equipment Co.,Ltd.
F0C9D1 (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
Midea Global Innovation Center,Beijiao Town,Shunde
Foshan Guangdong 528311

CN

34-7E-5C (hex) Sonos, Inc.
347E5C (base 16) Sonos, Inc.
614 Chapala St
Santa Barbara CA 93101
US

F8-C1-20 (hex) Xi'an Link-Science Technology Co.,Ltd
F8C120 (base 16) Xi'an Link-Science Technology Co.,Ltd
1/FBlock F,Building zhichao Weilai,No.999,10#Caotan Road,Xi'an
xi'an 710016
CN

B4-FB-F9 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B4FBF9 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

50-6F-77 (hex) HUAWEI TECHNOLOGIES CO.,LTD
506F77 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake
Technology Park
Dongguan 523808
CN

0C-41-E9 (hex) HUAWEI TECHNOLOGIES CO.,LTD
0C41E9 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

70-F2-20 (hex) Actiontec Electronics, Inc
70F220 (base 16) Actiontec Electronics, Inc
3301 Olcott St.
Santa Clara CA 95054
US

34-5A-06 (hex) SHARP Corporation
345A06 (base 16) SHARP Corporation
1 Takumi-cho, Sakai-ku
Sakai City Osaka 590-8522
JP

B8-9F-09 (hex) Wistron Neweb Corporation
B89F09 (base 16) Wistron Neweb Corporation
No.20,Park Avenue II,Hsinchu Science Park

Hsin-Chu R.O.C. 308
TW

04-02-CA (hex) Shenzhen Vtsonic Co.,ltd
0402CA (base 16) Shenzhen Vtsonic Co.,ltd
No.35,the 2nd Industrial Zone,Tangxiayong Village,Songgang Town,Bao'an District,Shenzhen,China.
Shenzhen Guangdong 518102
CN

3C-FB-5C (hex) Fiberhome Telecommunication Technologies Co.,LTD
3CFB5C
(base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

74-40-BB (hex) Hon Hai Precision Ind. Co.,Ltd.
7440BB (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

88-BD-45 (hex) Samsung Electronics Co.,Ltd
88BD45 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

54-FC-F0 (hex) Samsung Electronics Co.,Ltd
54FCF0 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

30-6A-85 (hex) Samsung Electronics Co.,Ltd
306A85 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

4C-DD-31 (hex) Samsung Electronics Co.,Ltd
4CDD31 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B4-DE-31 (hex) Cisco Systems, Inc
B4DE31 (base 16) Cisco

Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A4-40-27 (hex) zte corporation
A44027 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

B4-F7-A1 (hex) LG Electronics (Mobile Communications)
B4F7A1 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

70-EF-00 (hex) Apple, Inc.
70EF00 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

28-ED-E0 (hex) AMPAK Technology, Inc.
28EDE0 (base 16) AMPAK Technology, Inc.
No.1,Jen Ai Road Hsinchu Industrial Park, Hukou
Hsinchu Taiwan ROC. 30352
TW

1C-11-61 (hex) Ciena Corporation
1C1161 (base 16) Ciena Corporation
7035 Ridge Road
Hanover MD 21076
US

C8-77-65 (hex) Tiesse SpA
C87765 (base 16) Tiesse SpA
Via Asti
Ivrea TO 10015
IT

D0-81-7A (hex) Apple, Inc.
D0817A (base 16) Apple,
Inc.
1 Infinite Loop
Cupertino CA 95014
US

98-CA-33 (hex) Apple, Inc.
98CA33 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

68-AB-1E (hex) Apple, Inc.
68AB1E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

BC-FF-EB (hex) Motorola Mobility LLC, a Lenovo Company
BCFFEB (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

2C-37-C5 (hex) Qingdao Haier Intelligent Home Appliance Technology Co.,Ltd
2C37C5 (base 16) Qingdao Haier Intelligent Home Appliance Technology Co.,Ltd
ingdao high-tech park haier road 1
Qingdao Shandong 266101
CN

CC-40-D0 (hex) NETGEAR
CC40D0 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

7C-76-30 (hex) Shenzhen YOUHUA Technology Co., Ltd
7C7630 (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business
Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

98-22-EF (hex) Liteon Technology Corporation
9822EF (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

7C-76-35 (hex) Intel Corporate
7C7635 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

B8-07-16 (hex) vivo Mobile Communication Co., Ltd.
B80716 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

78-80-38 (hex) FUNAI ELECTRIC CO., LTD.
788038 (base 16) FUNAI ELECTRIC CO., LTD.
7-1, NAKAGAITO 7-CHOME
DAITO OSAKA 5740013
JP

F0-45-DA (hex) Texas Instruments
F045DA (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

1C-EE-C9 (hex) Elo touch solutions
1CEEC9 (base 16) Elo touch solutions
1033 McCarthy Boulevard
Milpitas CA 95035
US

00-18-62
(hex) Seagate Technology
001862 (base 16) Seagate Technology
1280 Disc Drive
Shakopee MN 55379
US

00-0C-50 (hex) Seagate Technology
000C50 (base 16) Seagate Technology
M/S NW1F01
Longmont CO 80503
US

E4-F0-42 (hex) Google, Inc.
E4F042 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

20-B3-99 (hex) Enterasys
20B399 (base 16) Enterasys
50 Minuteman Rd
Andover MA 01810

US

CC-2D-21 (hex) Tenda Technology Co.,Ltd.Dongguan branch
CC2D21 (base 16) Tenda Technology Co.,Ltd.Dongguan branch
Room 79,Yuanyi Road,Dalang Town,Dongguan Guangdong 523770
Dongguan Guangdong 523770
CN

00-40-97 (hex) DATEX DIVISION OF
004097 (base 16) DATEX DIVISION OF
INSTRUMENTARIUM CORP.

FI

40-48-FD (hex) IEEE Registration Authority
4048FD (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

A8-EE-C6
(hex) Muuselabs NV/SA
A8EEC6 (base 16) Muuselabs NV/SA
Rue du Tocsin 12
Brussels 1000
BE

9C-4F-CF (hex) TCT mobile ltd
9C4FCF (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

D8-96-E0 (hex) Alibaba Cloud Computing Ltd.
D896E0 (base 16) Alibaba Cloud Computing Ltd.
Yuhang District of Hangzhou Wenyi Road, Building 1, No. 969 Xixi Park, Zhejiang Province
Hangzhou Zhejiang 310000
CN

20-78-52 (hex) Nokia Solutions and Networks GmbH & Co. KG
207852 (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541
DE

F4-17-B8 (hex) AirTies Wireless Networks
F417B8 (base 16) AirTies Wireless Networks
Esentepe Mah., Kore ?ehitleri Cad.

Istanbul ?i?li 34360
TR

38-F7-3D (hex) Amazon Technologies Inc.
38F73D (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

C0-A0-0D
(hex) ARRIS Group, Inc.
C0A00D (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

B8-F7-4A (hex) RCNTEC
B8F74A (base 16) RCNTEC
Polkovaya street 3
Moscow 127018
RU

EC-F4-51 (hex) Arcadyan Corporation
ECF451 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

58-12-43 (hex) AcSiP Technology Corp.
581243 (base 16) AcSiP Technology Corp.
3F., No.22, Dalin Rd.,
Taoyuan Taoyuan County 33067
TW

58-C1-7A (hex) Cambium Networks Limited
58C17A (base 16) Cambium Networks Limited
Unit B2, Linhay Business Park,
Ashburton Devon TQ13 7UP
GB

E0-AA-DB (hex) Nanjing PANENG Technology Development Co.,Ltd
E0AADB (base 16) Nanjing PANENG Technology Development Co.,Ltd
NO.6 Paneng Road,Nanjing High-tech Zone,Jiang Su,China
Nanjing 210061
CN

C8-DE-C9 (hex) Coriant
C8DEC9 (base 16) Coriant

1415 W. Diehl
Rd
Naperville IL 60563
US

34-2A-F1 (hex) Texas Instruments
342AF1 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

0C-61-11 (hex) Anda Technologies SAC
0C6111 (base 16) Anda Technologies SAC
Av. Santa Cruz 888, Miraflores
Lima Peru Lima18
PE

00-22-C4 (hex) epro GmbH
0022C4 (base 16) epro GmbH
Joebkesweg 3
Gronau NRW 48599
DE

0C-15-39 (hex) Apple, Inc.
0C1539 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

1C-33-0E (hex) PernixData
1C330E (base 16) PernixData
1745 Technology Drive, Suite 800
San Jose CA 95110
US

44-D5-A5 (hex) AddOn Computer
44D5A5 (base 16) AddOn Computer
15775 Gateway cir
tustin CA 92780
US

64-51-06 (hex) Hewlett Packard
645106 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

00-BE-9E (hex) Fiberhome Telecommunication Technologies Co.,LTD

00BE9E
(base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

54-C5-7A (hex) Sunnovo International Limited
54C57A (base 16) Sunnovo International Limited
1717 Haitai Building
Beijing Beijing 100083
CN

6C-56-97 (hex) Amazon Technologies Inc.
6C5697 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

F8-7B-20 (hex) Cisco Systems, Inc
F87B20 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A8-9F-EC (hex) ARRIS Group, Inc.
A89FEC (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

38-AD-8E (hex) New H3C Technologies Co., Ltd
38AD8E (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

34-D0-B8 (hex) IEEE Registration Authority
34D0B8 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

D0-67-26
(hex) Hewlett Packard Enterprise
D06726 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

EC-FA-F4 (hex) SenRa Tech Pvt. Ltd
ECFAF4 (base 16) SenRa Tech Pvt. Ltd
133, First Floor, Lane No. 1, Westend Marg, Saidulajab
New Delhi 110030
IN

00-05-FF (hex) SNS Solutions, Inc.
0005FF (base 16) SNS Solutions, Inc.
2nd Fl. Hill House,

KR

D8-8F-76 (hex) Apple, Inc.
D88F76 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

40-9C-28 (hex) Apple, Inc.
409C28 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-1C-73 (hex) Arista Networks
001C73 (base 16) Arista Networks
5470 Great America Pkwy
Santa Clara 95054
US

2C-8A-72 (hex) HTC Corporation
2C8A72 (base 16) HTC Corporation
No. 23, Xinghua Rd., Taoyuan City
Taoyuan County Taiwan 330
TW

38-01-9F (hex) SHENZHEN FAST
TECHNOLOGIES CO.,LTD
38019F (base 16) SHENZHEN FAST TECHNOLOGIES CO.,LTD
Room 202,Building No.5,Section 30,No.2 of Kefa Road,Nanshan District,Shenzhen,P.R.China
Shenzhen Guangdong 518057
CN

24-5C-CB (hex) AXIe Consortium, Inc.
245CCB (base 16) AXIe Consortium, Inc.
P.O. Box 1016
Niwot CO 80544-1016

US

60-9B-C8 (hex) Hipad Intelligent Technology Co., Ltd.
609BC8 (base 16) Hipad Intelligent Technology Co., Ltd.
No. 688, East of Huangtang Street, LinkongEconomy District
Nanchang Jiangxi 330000
CN

40-6A-8E (hex) Hangzhou Puwell OE Tech Ltd.
406A8E (base 16) Hangzhou Puwell OE Tech Ltd.
Letel Technology Park, 500 Qiuyi Road, Binjiang District
Hangzhou Zhejiang 310052
CN

1C-0F-AF (hex) Lucid Vision Labs
1C0FAF (base 16) Lucid Vision Labs
Unit 130 - 13200 Delf Place
Richmond BC V6V2A2
CA

88-B4-A6 (hex) Motorola Mobility LLC, a Lenovo Company
88B4A6 (base 16) Motorola Mobility
LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

F4-49-EF (hex) EMSTONE
F449EF (base 16) EMSTONE
#310, Ace Techno Tower 3rd, 38 Digital-ro-29-gil
Guro-Gu Seoul 08381
KR

54-DF-24 (hex) Fiberhome Telecommunication Technologies Co.,LTD
54DF24 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

AC-1D-DF (hex) IEEE Registration Authority
AC1DDF (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

24-B2-09 (hex) Avaya Inc
24B209 (base 16) Avaya Inc
360 Mt Kemble Ave

Morristown NJ 07960
US

FC-65-DE (hex) Amazon Technologies Inc.
FC65DE (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

BC-90-3A (hex) Robert Bosch GmbH
BC903A (base 16) Robert Bosch GmbH
Postfach 1661
Leonberg 71226
DE

E8-D8-19 (hex) AzureWave Technology Inc.
E8D819
(base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

B0-6E-BF (hex) ASUSTek COMPUTER INC.
B06EBF (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

00-21-28 (hex) Oracle Corporation
002128 (base 16) Oracle Corporation
17 Network Circle
Menlo Park CA 95025
US

28-CF-08 (hex) ESSYS
28CF08 (base 16) ESSYS
gaetbeol-ro
Incheon 21999
KR

74-86-0B (hex) Cisco Systems, Inc
74860B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

18-2D-98 (hex) Jinwoo Industrial system
182D98 (base 16) Jinwoo Industrial system

7F,Jinwoo Building,149 dosan-daero
seoul gangnamgu 06036
KR

78-2D-7E (hex) TRENDnet, Inc.
782D7E (base 16) TRENDnet, Inc.
20675 Manhattan Place
Torrance CA 90501
US

74-1A-E0 (hex) IEEE Registration Authority
741AE0 (base 16) IEEE
Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

58-38-79 (hex) RICOH COMPANY, LTD.
583879 (base 16) RICOH COMPANY, LTD.
1005, Shimo-ogino
Atsugi-City Kanagawa-Pref. 243-0298
JP

F4-4C-70 (hex) Skyworth Digital Technology(Shenzhen) Co.,Ltd
F44C70 (base 16) Skyworth Digital Technology(Shenzhen) Co.,Ltd
7F,Block A,Skyworth Building,
Shenzhen Guangdong 518057
CN

78-32-1B (hex) D-Link International
78321B (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

D8-A5-34 (hex) Spectronix Corporation
D8A534 (base 16) Spectronix Corporation
3-28-15, Tarumi-cho
Suita-city Osaka 564-0062
JP

00-A0-96 (hex) MITSUMI ELECTRIC CO.,LTD.
00A096 (base 16) MITSUMI ELECTRIC CO.,LTD.
2-11-2, Tsurumaki
Tama-shi Tokyo 206-8567
JP

78-61-7C (hex) MITSUMI ELECTRIC CO.,LTD.

78617C (base 16) MITSUMI ELECTRIC CO.,LTD.
2-11-2,
Tsurumaki
Tama-shi Tokyo 206-8567
JP

EC-51-BC (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
EC51BC (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

F0-79-E8 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
F079E8 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

B0-93-5B (hex) ARRIS Group, Inc.
B0935B (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

D0-B1-28 (hex) Samsung Electronics Co.,Ltd
D0B128 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

BC-54-51 (hex) Samsung Electronics Co.,Ltd
BC5451 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

08-66-1F (hex) Palo Alto Networks
08661F (base 16) Palo Alto Networks
3000
Tannery Way
Santa Clara CA 95054
US

74-EA-C8 (hex) New H3C Technologies Co., Ltd
74EAC8 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

B4-D6-4E (hex) Caldero Limited
B4D64E (base 16) Caldero Limited
Concordia Works, 30 Sovereign Street
Leeds West Yorkshire LS1 4BA
GB

F8-9D-BB (hex) Tintri
F89DBB (base 16) Tintri
303 Ravendale Dr
Mountain View CA 94070
US

D8-A0-1D (hex) Espressif Inc.
D8A01D (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

90-4E-91 (hex) IEEE Registration Authority
904E91 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

DC-0C-2D (hex) WEIFANG GOERTEK ELECTRONICS CO.,LTD
DC0C2D (base 16) WEIFANG GOERTEK ELECTRONICS CO.,LTD
Gaoxin 2 Road, Free Trade Zone,Weifang,Shandong,261205,P.R.China
Weifang
Shandong 261205
CN

C4-F3-12 (hex) Texas Instruments
C4F312 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

60-18-03 (hex) Daikin Air-conditioning (Shanghai) Co., Ltd.
601803 (base 16) Daikin Air-conditioning (Shanghai) Co., Ltd.
318 Shen Fu Road, Xin Zhuang Industry Zone, Shanghai, 201108, China
Shanghai 201108
CN

8C-FE-B4 (hex) VSOONTECH ELECTRONICS CO., LIMITED
8CFEB4 (base 16) VSOONTECH ELECTRONICS CO., LIMITED
18th, Floor, On Hong Commericial Building, 145 Hennessy Road, Wanchai, HONG KONG
HongKong 999077

HK

94-0E-6B (hex) HUAWEI TECHNOLOGIES CO.,LTD
940E6B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

64-FB-50 (hex) RoomReady/Zdi, Inc.
64FB50 (base 16) RoomReady/Zdi, Inc.
2200 N. Main Street
Normal IL 61761
US

58-B4-2D (hex) YSTen Technology Co.,Ltd
58B42D (base
16) YSTen Technology Co.,Ltd
Room 1715,17/F North Star Times Tower,Chaoyang District,Beijing.
Beijing 100101
CN

34-29-8F (hex) IEEE Registration Authority
34298F (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

5C-EA-1D (hex) Hon Hai Precision Ind. Co.,Ltd.
5CEA1D (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

18-14-56 (hex) Nokia Corporation
181456 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu Ou 90590
FI

78-CA-04 (hex) Nokia Corporation
78CA04 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

10-4B-46 (hex) Mitsubishi Electric Corporation
104B46 (base 16) Mitsubishi Electric Corporation
2-7-3

Chiyoda-ku Tokyo 100-8310
JP

00-17-C8 (hex) KYOCERA Display Corporation
0017C8 (base 16) KYOCERA Display Corporation
2-14-9, Tamagawadai
Tokyo
158-8610
JP

5C-E8-B7 (hex) Oraimo Technology Limited
5CE8B7 (base 16) Oraimo Technology Limited
RMS 05-1513A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
HONG KONG HONG KONG 999077
HK

CC-66-B2 (hex) Nokia
CC66B2 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

38-E2-DD (hex) zte corporation
38E2DD (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

88-5D-FB (hex) zte corporation
885DFB (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

68-EC-C5 (hex) Intel Corporate
68ECC5 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

3C-11-B2 (hex) Fraunhofer FIT
3C11B2 (base 16) Fraunhofer FIT
Schloss Birlinghoven
Sankt Augustin 53754
DE

28-8C-B8 (hex) zte corporation

288CB8
(base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

78-BC-1A (hex) Cisco Systems, Inc
78BC1A (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-5C-86 (hex) SHENZHEN FAST TECHNOLOGIES CO.,LTD
005C86 (base 16) SHENZHEN FAST TECHNOLOGIES CO.,LTD
Room 202,Building No.5,Section 30,No.2 of Kefa Road,Nanshan District,Shenzhen,P.R.China
Shenzhen Guangdong 518057
CN

5C-54-6D (hex) HUAWEI TECHNOLOGIES CO.,LTD
5C546D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

48-BC-A6 (hex) ASUNG TECHNO CO.,Ltd
48BCA6 (base 16) ASUNG TECHNO CO.,Ltd
462, Dogok-ro, Songpa-gu, Seoul, Republic of Korea
SEOUL Repubilc of KOREA 05574
KR

3C-10-E6 (hex) PHAZR Inc.
3C10E6 (base 16) PHAZR Inc.
8, Presitige Circle, Suite 104
Allen TX
75002
US

30-05-3F (hex) JTI Co.,Ltd.
30053F (base 16) JTI Co.,Ltd.
102-1508, 36, Bucheon-ro 198beon-gil,
Buchcheon-si Gyeonggi-do 14557
KR

B0-09-DA (hex) Ring Solutions
B009DA (base 16) Ring Solutions
1200 Atwater Drive, Suite 225
Malvern PA 19355
US

00-05-4F (hex) Garmin International
00054F (base 16) Garmin International
1200 E. 151st St
Olathe KS 66062
US

90-45-06 (hex) Tokyo Boeki Medisys Inc.
904506 (base 16) Tokyo Boeki Medisys Inc.
1-14-21, Higashitoyoda
Hino Tokyo 191-0052
JP

00-21-A1 (hex) Cisco Systems, Inc
0021A1 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E0-48-D3 (hex) MOBIWIRE MOBILES (NINGBO) CO.,LTD
E048D3 (base 16) MOBIWIRE MOBILES (NINGBO) CO.,LTD
No.999,Dacheng East Road,
Fenghua Zhejiang 315500
CN

B8-DB-1C (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
B8DB1C (base 16) Integrated
Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

58-E2-8F (hex) Apple, Inc.
58E28F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

78-7B-8A (hex) Apple, Inc.
787B8A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-0C-03 (hex) HDMI Licensing, LLC
000C03 (base 16) HDMI Licensing, LLC
1060 East Arques Ave.
Sunnyvale CA 94085

US

F4-93-9F (hex) Hon Hai Precision Industry Co., Ltd.
F4939F (base 16) Hon Hai Precision Industry Co., Ltd.
GuangDongShenZhen
ShenZhen GuangDong 518109
CN

00-07-26 (hex) SHENZHEN GONGJIN ELECTRONICS CO.,LT
000726 (base 16) SHENZHEN GONGJIN ELECTRONICS CO.,LT
A211-A213 & B201-B210, 2F, Baiying Building, 1019#, Nanhai RD, Shekou Party, Nanshan District,
Shenzhen Guangdong 518067
CN

FC-8B-97 (hex) SHENZHEN GONGJIN ELECTRONICS CO.,LT
FC8B97 (base 16) SHENZHEN GONGJIN
ELECTRONICS CO.,LT
B116,B118,A211-A213,B201-B213,A311-A313,B411-413,BF08-09 Nanshan Medical Instrument Industry Park,
Shenzhen Guangdong 518067
CN

28-80-A2 (hex) Novatel Wireless Solutions, Inc.
2880A2 (base 16) Novatel Wireless Solutions, Inc.
9710 Scranton Rd., Suite 200
San Diego CA 92121
US

84-A1-D1 (hex) Sagemcom Broadband SAS
84A1D1 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

FC-7F-56 (hex) CoSyst Control Systems GmbH
FC7F56 (base 16) CoSyst Control Systems GmbH
Martin-Albert-Str. 1
Nürnberg Bayern 90491
DE

2C-40-53 (hex) Samsung Electronics Co.,Ltd
2C4053 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

0C-8F-FF (hex) HUAWEI TECHNOLOGIES CO.,LTD
0C8FFF (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park

Dongguan
523808
CN

54-B1-21 (hex) HUAWEI TECHNOLOGIES CO.,LTD
54B121 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A8-0C-63 (hex) HUAWEI TECHNOLOGIES CO.,LTD
A80C63 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

5C-C3-07 (hex) HUAWEI TECHNOLOGIES CO.,LTD
5CC307 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

90-9D-7D (hex) ARRIS Group, Inc.
909D7D (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

78-8C-4D (hex) Indyme Solutions, LLC
788C4D (base 16) Indyme Solutions, LLC
8295 Aero Place Ste 260
San Diego CA 92123
US

DC-EB-53 (hex) Wuhan QianXiao Elecronic Technology CO.,LTD
DCEB53 (base 16) Wuhan QianXiao Elecronic Technology CO.,LTD
Guanggu
Xinzhongxin, No.303 of Guanggu road, East lake development zone
wuhan hubei 430000
CN

EC-8A-C7 (hex) Fiberhome Telecommunication Technologies Co.,LTD
EC8AC7 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

88-36-5F (hex) LG Electronics (Mobile Communications)

88365F (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

24-B2-DE (hex) Espressif Inc.
24B2DE (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

F0-EF-D2 (hex) TF PAYMENT SERVICE CO., LTD
F0EFD2 (base 16) TF PAYMENT SERVICE CO., LTD
5F Shibadaimon Center Building, 1-10-11 Shibadaimon
Minato-ku Tokyo 105-0012
JP

00-0E-59 (hex) Sagemcom Broadband SAS
000E59 (base 16) Sagemcom Broadband SAS
2, rue du petit Albi
CERGY SAINT CHRISTOPHE val d'Oise 95800
FR

78-81-02
(hex) Sercomm Corporation.
788102 (base 16) Sercomm Corporation.
3F,No.81,Yu-Yih Rd.,Chu-Nan Chen
Miao-Lih Hsuan 115
TW

84-AA-9C (hex) MitraStar Technology Corp.
84AA9C (base 16) MitraStar Technology Corp.
No. 6, Innovation Road II,
Hsinchu 300
TW

2C-AB-25 (hex) SHENZHEN GONGJIN ELECTRONICS CO.,LT
2CAB25 (base 16) SHENZHEN GONGJIN ELECTRONICS CO.,LT
B116,B118,A211-A213,B201-B213,A311-A313,B411-413,BF08-09 Nanshan Medical Instrument Industry Park,
Shenzhen Guangdong 518067
CN

1C-A5-32 (hex) SHENZHEN GONGJIN ELECTRONICS CO.,LT
1CA532 (base 16) SHENZHEN GONGJIN ELECTRONICS CO.,LT
1#SongGang RD, Bao'an Dist., Shenzhen, Guangdong,China
Shenzhen Guangdong 518109
CN

00-1F-92 (hex) Motorola Solutions Inc.
001F92 (base 16) Motorola Solutions Inc.
500 W Monroe Street, Ste 4400
Chicago IL 60661-3781
US

00-25-C4 (hex) Ruckus Wireless
0025C4 (base 16) Ruckus Wireless
350
West Java Drive
Sunnyvale CA 94089
US

C0-C5-20 (hex) Ruckus Wireless
C0C520 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

70-DE-F9 (hex) FAI WAH INTERNATIONAL (HONG KONG) LIMITED
70DEF9 (base 16) FAI WAH INTERNATIONAL (HONG KONG) LIMITED
Room 19, 8F.,Corporation Park, 11 On Lai Street,Shatin,Shek Mun,N.T.Hong Kong
Hong Kong 999077
HK

4C-B0-08 (hex) Shenzhen Gwelltimes Technology Co.,Ltd
4CB008 (base 16) Shenzhen Gwelltimes Technology Co.,Ltd
A4 building 15floor Zhongying Jewelry Industrial Park Bulan Road No.31 Nanwan Street Longgang District Shenzhen City China
Shenzhen 518112
CN

E8-6F-F2 (hex) Actiontec Electronics, Inc
E86FF2 (base 16) Actiontec Electronics, Inc
3301 Olcott St.
Santa Clara CA 95054
US

00-50-18 (hex) AMIT, Inc.
005018 (base 16) AMIT, Inc.
No.32, Huangong Rd.,
Yongkang City, Tainan County 71041
TW

FC-2F-6B
(hex) Everspin Technologies, Inc.
FC2F6B (base 16) Everspin Technologies, Inc.
1347 N. Alma School Rd., Suite 220

Chandler AZ 85224
US

10-1B-54 (hex) HUAWEI TECHNOLOGIES CO.,LTD
101B54 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1-4,Huawei Industrial Base,Bantian,Longgang
ShenZhen GuangDong 518129
CN

7C-BA-CC (hex) IEEE Registration Authority
7CBACC (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

94-F1-28 (hex) Hewlett Packard Enterprise
94F128 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville 95747
US

54-02-37 (hex) Teltronic AG
540237 (base 16) Teltronic AG
Gewerbestrasse 9
Biberist 4562
CH

E0-10-7F (hex) Ruckus Wireless
E0107F (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

C4-01-7C (hex) Ruckus Wireless
C4017C (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA
94089
US

40-42-29 (hex) Layer3TV, Inc
404229 (base 16) Layer3TV, Inc
1660 Wynkoop St - Suite 800
Denver CO 80202
US

F8-1D-90 (hex) Solidwintech
F81D90 (base 16) Solidwintech

6th Floor, SOLiD Space 220 Pangyoyeok-ro, Bundang-gu
Seongnam-si Gyeongi-do 13493
KR

B0-EA-BC (hex) ASKEY COMPUTER CORP
B0EABC (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585
TW

94-C6-91 (hex) EliteGroup Computer Systems Co., LTD
94C691 (base 16) EliteGroup Computer Systems Co., LTD
No.239, Sec. 2, TiDing Blvd. Nei-Hu Dist.
Taipei Taiwan 11439
TW

3C-F5-91 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
3CF591 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

60-21-01 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
602101 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS
CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

7C-EB-7F (hex) Dmet Products Corp.
7CEB7F (base 16) Dmet Products Corp.
118, Fujisoft Akihabara Bldg 12F, Kanda Neribeicho 3
Chiyodaku Tokyo 1010022
JP

8C-85-80 (hex) Smart Innovation LLC
8C8580 (base 16) Smart Innovation LLC
7F,Tower B,Jianxing
ShenZhen GuangZhou 518055
CN

28-7B-09 (hex) zte corporation
287B09 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

A0-6A-44 (hex) Vizio, Inc

A06A44 (base 16) Vizio, Inc
39 Tesla
Irvine CA 92618
US

88-B1-11 (hex) Intel Corporate
88B111 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

DC-BE-7A (hex) Zhejiang Nurotron Biotechnology Co.
DCBE7A (base 16) Zhejiang Nurotron Biotechnology Co.
Building4, No.99 Xiaomao Rd
Hangzhou zhejiang 310011
CN

34-38-B7
(hex) HUMAX Co., Ltd.
3438B7 (base 16) HUMAX Co., Ltd.
HUMAX Village, 216, Hwangsaeul-ro, Bu
Seongnam-si Gyeonggi-do 463-875
KR

78-B2-8D (hex) Beijing Tengling Technology CO.Ltd
78B28D (base 16) Beijing Tengling Technology CO.Ltd
beijing haidian shangdi san jie
beijing 100086
CN

78-45-01 (hex) Biamp Systems
784501 (base 16) Biamp Systems
9300 SW Gemini Dr
Beaverton OR 97008
US

54-D7-51 (hex) Proximus
54D751 (base 16) Proximus
Bld du Roi Albert II 27
Brussels 1030
BE

CC-06-77 (hex) Fiberhome Telecommunication Technologies Co.,LTD
CC0677 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

14-78-0B (hex) Varex Imaging Deutschland AG
14780B (base 16) Varex Imaging Deutschland AG
Zweigniederlassung/Branch Walluf
In der Rehbach 22 Walluf 65396
DE

00-80-C2 (hex) IEEE 802.1 Chair
0080C2 (base 16) IEEE
802.1 Chair
c/o RAC Administrator , IEEE
Piscataway NJ 08554
US

EC-F3-42 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
ECF342 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

D4-25-8B (hex) Intel Corporate
D4258B (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

04-1B-6D (hex) LG Electronics (Mobile Communications)
041B6D (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

F4-41-56 (hex) Arrikto Inc.
F44156 (base 16) Arrikto Inc.
3505 El Camino Real
Palo Alto CA 94306
US

98-6C-5C (hex) Jiangxi Gosun Guard Security Co.,Ltd
986C5C (base 16) Jiangxi Gosun Guard Security Co.,Ltd
2rd floor,8 building Middle,Zhongxing Software Park,Changdong Avenue,Nanchang High Tech Zone,Nanchang city,Jiangxi province
Nan Chang City Jiang Xi
Province 330000
CN

50-FF-20 (hex) Keenetic Limited
50FF20 (base 16) Keenetic Limited
1202, 12/F., AT TOWER, 180 ELECTRIC ROAD, NORTH POINT

HONG KONG 852
HK

68-8D-B6 (hex) AETEK INC.
688DB6 (base 16) AETEK INC.
3F, No.192, Lien-Cheng Rd., Chung-Ho,
New Taipei City 23553
TW

00-F8-2C (hex) Cisco Systems, Inc
00F82C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-C1-B1 (hex) Cisco Systems, Inc
00C1B1 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

F4-FC-B1 (hex) JJ Corp
F4FCB1 (base 16) JJ Corp
88 Soha-ro
Gwangmyeong-si 14316
KR

8C-39-5C (hex) Bit4id Srl
8C395C (base 16) Bit4id Srl
Via Diocleziano, 107
Naples 80125
IT

30-9C-23 (hex) Micro-Star INTL CO., LTD.
309C23 (base 16) Micro-Star INTL CO., LTD.
No.69, Lide St.,
New Taipei City Taiwan 235
TW

14-5E-45 (hex) Bamboo
Systems Group
145E45 (base 16) Bamboo Systems Group
Sheraton House, Castle Park
Cambridge CAMBRIDGESHIRE CB3 0AX
GB

E4-57-40 (hex) ARRIS Group, Inc.
E45740 (base 16) ARRIS Group, Inc.

6450 Sequence Drive
San Diego CA 92121
US

AC-AF-B9 (hex) Samsung Electronics Co.,Ltd
ACAFB9 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

18-12-12 (hex) Cepton Technologies
181212 (base 16) Cepton Technologies
103 Bonaventura Dr
San Jose CA 95134
US

70-D9-23 (hex) vivo Mobile Communication Co., Ltd.
70D923 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'an DongGuan City,Guangdong 523860
CN

B8-3A-08 (hex) Tenda Technology Co.,Ltd.Dongguan branch
B83A08 (base 16) Tenda Technology Co.,Ltd.Dongguan branch
Room 79,Yuanyi Road,Dalang Town,Dongguan Guangdong 523770
Dongguan Guangdong 523770
CN

50-D3-7F (hex) Yu Fly Mikly
Way Science and Technology Co., Ltd.
50D37F (base 16) Yu Fly Mikly Way Science and Technology Co., Ltd.
6F, No. 1168 Huyi Road, Nanxiang Town Jiading District Shanghai 201800 CHINA
shanghai 201800
CN

B0-3D-96 (hex) Vision Valley FZ LLC
B03D96 (base 16) Vision Valley FZ LLC
Dubai Internet City
Dubai Dubai 500294
AE

F8-94-C2 (hex) Intel Corporate
F894C2 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

70-D3-79 (hex) Cisco Systems, Inc

70D379 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

10-05-01 (hex) PEGATRON CORPORATION
100501 (base 16) PEGATRON CORPORATION
5F No. 76, Ligong St., Beitou District
Taipei City Taiwan 112
TW

D8-C8-E9 (hex) Phicomm (Shanghai) Co., Ltd.
D8C8E9 (base 16) Phicomm (Shanghai) Co., Ltd.
3666 SiXian Rd.,Songjiang District
Shanghai Shanghai 201616
CN

7C-B9-60 (hex) Shanghai X-Cheng
telecom LTD
7CB960 (base 16) Shanghai X-Cheng telecom LTD
ROOM 401, Building 5, No.3000 LONG DONG Avenue, Pudong New District, Shanghai
Shanghai Shanghai 201203
CN

28-B4-48 (hex) HUAWEI TECHNOLOGIES CO.,LTD
28B448 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

70-DB-98 (hex) Cisco Systems, Inc
70DB98 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

30-D3-86 (hex) zte corporation
30D386 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

24-79-2A (hex) Ruckus Wireless
24792A (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

A4-9B-F5 (hex) Hybridserver Tec GmbH
A49BF5 (base 16) Hybridserver Tec GmbH
Gutenbergring 26a
Norderstedt Schleswig-Holstein 22848
DE

F4-70-AB (hex) vivo Mobile
Communication Co., Ltd.
F470AB (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

2C-5A-0F (hex) Cisco Systems, Inc
2C5A0F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

2C-31-24 (hex) Cisco Systems, Inc
2C3124 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

9C-C8-AE (hex) Becton, Dickinson and Company
9CC8AE (base 16) Becton, Dickinson and Company
1 Becton Drive
Franklin Lakes MA 07417-1880
US

B0-35-9F (hex) Intel Corporate
B0359F (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C0-D9-62 (hex) ASKEY COMPUTER CORP
C0D962 (base 16) ASKEY COMPUTER CORP
10F,NO.119,JIANKANG RD.,ZHONGHE DIST XINBEI CITY
taipei TAIPEI 23585
TW

F8-0B-CB (hex) Cisco Systems, Inc
F80BCB (base 16) Cisco Systems, Inc
80 West Tasman Drive
San

Jose CA 94568
US

08-02-8E (hex) NETGEAR
08028E (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

B4-7C-9C (hex) Amazon Technologies Inc.
B47C9C (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

50-3D-A1 (hex) Samsung Electronics Co.,Ltd
503DA1 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

50-32-37 (hex) Apple, Inc.
503237 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B0-48-1A (hex) Apple, Inc.
B0481A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B4-9C-DF (hex) Apple, Inc.
B49CDF (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

48-BF-6B (hex) Apple, Inc.
48BF6B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

2C-FA-A2 (hex) Alcatel-Lucent Enterprise
2CFAA2 (base 16) Alcatel-Lucent

Enterprise
26801 West Agoura Rd
Calabasas CA 91301
US

E8-E7-32 (hex) Alcatel-Lucent Enterprise
E8E732 (base 16) Alcatel-Lucent Enterprise
26801 West Agoura Road
Calabasas CA 91301
US

7C-26-64 (hex) Sagemcom Broadband SAS
7C2664 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

AC-6B-0F (hex) CADENCE DESIGN SYSTEMS INC
AC6B0F (base 16) CADENCE DESIGN SYSTEMS INC
2670 SEELY AVE
SAN JOSE CA 95134
US

C8-B5-AD (hex) Hewlett Packard Enterprise
C8B5AD (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

7C-38-66 (hex) Texas Instruments
7C3866 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

0C-61-CF (hex) Texas Instruments
0C61CF (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

9C-1D-58 (hex) Texas Instruments
9C1D58 (base 16) Texas
Instruments
12500 TI Blvd
Dallas TX 75243
US

58-82-1D (hex) H. Schomäcker GmbH
58821D (base 16) H. Schomäcker GmbH
Heidestr. 183
Köln 51147
DE

D8-A1-05 (hex) Syslane, Co., Ltd.
D8A105 (base 16) Syslane, Co., Ltd.
#1201, Megacenter, SKntechno-park,, Sangdaeweon-dong, Joongweon-gu
Seongnam Outside the US, Mexico, or Canada 462-721
KR

3C-05-18 (hex) Samsung Electronics Co.,Ltd
3C0518 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

90-06-28 (hex) Samsung Electronics Co.,Ltd
900628 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

2C-1D-B8 (hex) ARRIS Group, Inc.
2C1DB8 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

9C-84-BF (hex) Apple, Inc.
9C84BF (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B4-A9-FE (hex) GHIA Technology (Shenzhen)
LTD
B4A9FE (base 16) GHIA Technology (Shenzhen) LTD
RM 1606, BLDG 3rd, COFCO Clouds Mansion
Shenzhen 518101
CN

F0-97-E5 (hex) TAMIO, INC
F097E5 (base 16) TAMIO, INC
12F-2, No.33, Sec. 1 , Mingsheng Rd.,Banqiao Dist
New Taipei City 22069
TW

4C-1A-3D (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
4C1A3D (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

1C-A0-D3 (hex) IEEE Registration Authority
1CA0D3 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

9C-FC-D1 (hex) Aetheris Technology (Shanghai) Co., Ltd.
9CFCD1 (base 16) Aetheris Technology (Shanghai) Co., Ltd.
Room 225 Building No. 8, 433 Yuyuan Road
Shanghai Shanghai 200040
CN

BC-A0-42 (hex) SHANGHAI FLYCO ELECTRICAL APPLIANCE CO.,LTD
BCA042 (base 16) SHANGHAI FLYCO ELECTRICAL APPLIANCE CO.,LTD
No.555,Guang Fu
Lin east Road,Songjiang District
Shanghai Shanghai 201613
CN

CC-CE-1E (hex) AVM Audiovisuelles Marketing und Computersysteme GmbH
CCCE1E (base 16) AVM Audiovisuelles Marketing und Computersysteme GmbH
Alt-Moabit 95
Berlin Berlin 10559
DE

0C-F4-D5 (hex) Ruckus Wireless
0CF4D5 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

00-11-1B (hex) Targa Systems Div L-3 Communications
00111B (base 16) Targa Systems Div L-3 Communications
2081 Merivale Rd
Ottawa Ont K2G 1G9
CA

68-54-C1 (hex) ColorTokens, Inc.
6854C1 (base 16) ColorTokens, Inc.
2101 Tasman Dr. Suite 200A
Santa Clara CA 95054

US

34-6E-9D (hex) Ericsson AB
346E9D (base 16) Ericsson AB
Torshamnsgatan 36
Stockholm SE-164 80
SE

F4-DC-41 (hex) YOUNGZONE CULTURE (SHANGHAI) CORP
F4DC41 (base 16) YOUNGZONE CULTURE (SHANGHAI) CORP
7-8th floor, #1 Building, 1006 Jinshajiang Road
Shanghai
Shanghai 200062
CN

00-0F-4F (hex) PCS Systemtechnik GmbH
000F4F (base 16) PCS Systemtechnik GmbH
66 Hillside Rd
Auckland 1310
NZ

6C-75-0D (hex) WiFiSONG
6C750D (base 16) WiFiSONG
Rm. 605, Building 3, No. 75 Wenyi West Road
Hangzhou Zhejiang 310012
CN

38-05-AC (hex) Piller Group GmbH
3805AC (base 16) Piller Group GmbH
Abgunst 24
Osterode 37520
DE

BC-3F-8F (hex) HUAWEI TECHNOLOGIES CO.,LTD
BC3F8F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

14-30-04 (hex) HUAWEI TECHNOLOGIES CO.,LTD
143004 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

38-AA-3C (hex) SAMSUNG ELECTRO MECHANICS CO., LTD.
38AA3C (base 16) SAMSUNG ELECTRO MECHANICS CO., LTD.
314, Maetan3-Dong, Yeongtong-Gu

Suwon 443-743
US

50-A4-D0 (hex) IEEE
Registration Authority
50A4D0 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

80-00-10 (hex) AT&T
800010 (base 16) AT&T
3300 E Renner Road
Richardson TX 75082
US

0C-3C-CD (hex) Universal Global Scientific Industrial Co., Ltd.
0C3CCD (base 16) Universal Global Scientific Industrial Co., Ltd.
141, Lane 351, Taiping Road, Sec.1,Tsao Tuen
Nan-Tou Taiwan 54261
TW

14-AB-C5 (hex) Intel Corporate
14ABC5 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-24-F1 (hex) Shenzhen Fanhai Sanjiang Electronics Co., Ltd.
0024F1 (base 16) Shenzhen Fanhai Sanjiang Electronics Co., Ltd.
3Floor-Guangcai Xintiandi Building,Nanshan Rd,Nanshan,
Shenzhen Guangdong 518054
CN

A8-0C-CA (hex) Shenzhen Sundray Technologies Company Limited
A80CCA (base 16) Shenzhen Sundray Technologies Company Limited
6th Floor,Block A1, Nanshan iPark,
No.1001 XueYuan Road, Nanshan District
Shenzhen Guangdong 518057
CN

50-D2-13 (hex) CviLux Corporation
50D213 (base 16) CviLux Corporation
9F,No.9,Lane 3,Sec.1,Chung-Cheng East Road, Tamshui
New Taipei City 25147
TW

00-1E-29 (hex) Hypertherm Inc

001E29 (base 16) Hypertherm Inc
15 Great Hollow Rd
Hanover NH 03755
US

7C-C6-C4 (hex) Kolff Computer Supplies b.v.
7CC6C4 (base 16) Kolff Computer Supplies b.v.
Kuipershaven 22
Dordrecht Zuid-Holland 3311 AL
NL

C4-83-6F (hex) Ciena Corporation
C4836F (base 16) Ciena Corporation
7035 Ridge Road
Hanover MD 21076
US

50-04-B8 (hex) HUAWEI TECHNOLOGIES CO.,LTD
5004B8 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-03-02 (hex) Charles Industries, Ltd.
000302 (base 16) Charles Industries, Ltd.
5600 Apollo Drive
Rolling Meadows IL 60008
US

5C-FF-35
(hex) Wistron Corporation
5CFF35 (base 16) Wistron Corporation
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,
Taipei Hsien 221
TW

78-F2-9E (hex) PEGATRON CORPORATION
78F29E (base 16) PEGATRON CORPORATION
5F No. 76, Ligong St., Beitou District
Taipei City Taiwan 112
TW

64-77-7D (hex) Hitron Technologies. Inc
64777D (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

60-D2-62 (hex) Tzukuri Pty Ltd
60D262 (base 16) Tzukuri Pty Ltd
6 Lenthall Street
Kensington NSW 2033
AU

14-2F-FD (hex) LT SECURITY INC
142FFD (base 16) LT SECURITY INC
18738 SAN JOSE AVE
CITY OF INDUSTRY CA 91748
US

00-D0-B2 (hex) Xiotech Corporation
00D0B2 (base 16) Xiotech Corporation
6455 FLYING CLOUD DRIVE
EDEN PRAIRIE MN 55344
US

9C-50-EE (hex) Cambridge Industries(Group) Co.,Ltd.
9C50EE
(base 16) Cambridge Industries(Group) Co.,Ltd.
5/F,Building 8, 2388 ChenHang Road, MinHang District
shanghai 201114
CN

40-ED-98 (hex) IEEE Registration Authority
40ED98 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

AC-DC-E5 (hex) Procter & Gamble Company
ACDCE5 (base 16) Procter & Gamble Company
2 Procter & Gamble Plaza
Cincinnati OH 45202
US

00-B3-62 (hex) Apple, Inc.
00B362 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E4-E4-AB (hex) Apple, Inc.
E4E4AB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

54-FA-96 (hex) Nokia Solutions and Networks GmbH & Co. KG
54FA96 (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541
DE

60-33-4B (hex) Apple, Inc.
60334B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C8-91-F9 (hex) Sagemcom
Broadband SAS
C891F9 (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
Rueil Malmaison HAUTS DE SEINE 92848
FR

84-04-D2 (hex) Kirale Technologies SL
8404D2 (base 16) Kirale Technologies SL
General Vara de Rey 9, 5B
Logrono La Rioja 26001
ES

38-AF-D7 (hex) FUJITSU LIMITED
38AFD7 (base 16) FUJITSU LIMITED
403, Kosugi-cho 1-chome, Nakahara-ku
Kawasaki Kanagawa 211-0063
JP

28-99-3A (hex) Arista Networks
28993A (base 16) Arista Networks
5453 Great America Parkway
Santa Clara CA 95054
US

60-42-7F (hex) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
60427F (base 16) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
Unit East Block22-24/F,Skyworth semiconductor design Bldg., Gaoxin Ave.4.S.,Nanshan District,Shenzhen,China
SHENZHEN GUANGDONG 518057
CN

BC-A8-A6 (hex) Intel Corporate
BCA8A6 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000

MY

74-FF-4C
(hex) Skyworth Digital Technology(Shenzhen) Co.,Ltd
74FF4C (base 16) Skyworth Digital Technology(Shenzhen) Co.,Ltd
7F,Block A,Skyworth Building,
Shenzhen Guangdong 518057
CN

A0-2C-36 (hex) FN-LINK TECHNOLOGY LIMITED
A02C36 (base 16) FN-LINK TECHNOLOGY LIMITED
A Building,HuiXin industial park,No 31, YongHe road, Fuyong town, Bao'an District
SHENZHEN GUANGDONG 518100
CN

F4-8C-50 (hex) Intel Corporate
F48C50 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

DC-D2-55 (hex) Kinpo Electronics, Inc.
DCD255 (base 16) Kinpo Electronics, Inc.
No.147, Sec. 3, Beishen Rd
Shenkeng Dist. New Taipei City 222
TW

64-EB-8C (hex) Seiko Epson Corporation
64EB8C (base 16) Seiko Epson Corporation
80 Harashinden
Shiojiri-shi Nagano-ken 399-0785
JP

00-13-51 (hex) Niles Audio Corporation
001351 (base 16) Niles Audio Corporation
5919 Sea Otter Place
Carlsbad
CA 92010
US

00-03-20 (hex) Xpeed, Inc.
000320 (base 16) Xpeed, Inc.
99 W. Tasman Drive
San Jose CA 95134
US

AC-1F-6B (hex) Super Micro Computer, Inc.
AC1F6B (base 16) Super Micro Computer, Inc.

980 Rock Ave
San Jose CA 95131
US

50-8A-0F (hex) SHENZHEN FISE TECHNOLOGY HOLDING CO.,LTD.
508A0F (base 16) SHENZHEN FISE TECHNOLOGY HOLDING CO.,LTD.
No.6 Building, Longfu Industrial Area, Huarong Road, Tongsheng Community, Dalang Street, Longhua New District
Shenzhen Guangdong 518000
CN

7C-CB-E2 (hex) IEEE Registration Authority
7CCBE2 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

A8-A5-E2 (hex) MSF-Vathauer Antriebstechnik GmbH & Co KG
A8A5E2 (base 16) MSF-Vathauer Antriebstechnik GmbH & Co KG
Am Hessentuch 6-8
Detmold Nordrhein-Westfalen 32758
DE

C0-28-8D (hex) Logitech, Inc
C0288D (base 16) Logitech, Inc
4700 NW Camas Meadows
Drive
Camas WA 98607
US

6C-EC-5A (hex) Hon Hai Precision Ind. CO.,Ltd.
6CEC5A (base 16) Hon Hai Precision Ind. CO.,Ltd.
B22 Building, NO.52,Tongle Road, Foxconn Industrial Park, District Jiangnan, Nanning, Guangxi, China
Nanning Guangxi 530031
CN

44-C3-46 (hex) HUAWEI TECHNOLOGIES CO.,LTD
44C346 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

30-74-96 (hex) HUAWEI TECHNOLOGIES CO.,LTD
307496 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

70-8A-09 (hex) HUAWEI TECHNOLOGIES CO.,LTD
708A09 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

18-06-75 (hex) Dilax Intelcom GmbH
180675 (base 16) Dilax Intelcom GmbH
Alt-Moabit 96b
Berlin 10559
DE

00-0F-C2 (hex) Uniwell
Corporation
000FC2 (base 16) Uniwell Corporation
5-25, 3-chome, Tenma, Kita-ku
Osaka 530-0043
JP

CC-C5-EF (hex) Co-Comm Servicios Telecomunicaciones S.L.
CCC5EF (base 16) Co-Comm Servicios Telecomunicaciones S.L.
Lisboa, 20 Las Rozas
Madrid Madrid 28232
ES

90-02-A9 (hex) Zhejiang Dahua Technology Co., Ltd.
9002A9 (base 16) Zhejiang Dahua Technology Co., Ltd.
NO.1199 BinAn Road
Hangzhou Zhejiang 310053
CN

E8-9E-B4 (hex) Hon Hai Precision Ind. Co.,Ltd.
E89EB4 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

D4-6A-6A (hex) Hon Hai Precision Ind. Co.,Ltd.
D46A6A (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

98-FD-74 (hex) ACT.CO.LTD
98FD74 (base 16) ACT.CO.LTD
3-RD Floor 93, Sanbon-ro
Gunpo-si Gyeonggi-do 15849
KR

E0-50-8B (hex) Zhejiang
Dahua Technology Co., Ltd.
E0508B (base 16) Zhejiang Dahua Technology Co., Ltd.
No.1199,Waterfront Road
Hangzhou Zhejiang 310053
CN

00-00-64 (hex) Yokogawa Digital Computer Corporation
000064 (base 16) Yokogawa Digital Computer Corporation
Shinjuku MIDWEST Bldg.4-30-3
Yoyogi Shibuya-ku, Tokyo 151-0053
JP

D0-F7-3B (hex) Helmut Mauell GmbH Werk Weida
D0F73B (base 16) Helmut Mauell GmbH Werk Weida
Am Rosenhügel 1-7
Velbert 42553
DE

00-0E-58 (hex) Sonos, Inc.
000E58 (base 16) Sonos, Inc.
614 Chapala St
Santa Barbara CA 93101
US

0C-49-33 (hex) Sichuan Jiuzhou Electronic Technology Co., Ltd.
0C4933 (base 16) Sichuan Jiuzhou Electronic Technology Co., Ltd.
No. 259, Jiuzhou Road
Mianyang City Sichuan Province 621000
CN

9C-1E-95 (hex) Actiontec Electronics, Inc
9C1E95 (base 16) Actiontec Electronics, Inc
3301 Olcott St.
Santa Clara CA 95054
US

64-DB-43
(hex) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
64DB43 (base 16) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
No.19, Gaoxin 4th Road, Wuhan East Lake High-tech Zone, Wuhan
Wuhan Hubei 430000
CN

68-AF-13 (hex) Futura Mobility
68AF13 (base 16) Futura Mobility
515 PENNSYLVANIA AVE

FORT WASHINTON PA 19034
US

68-1A-B2 (hex) zte corporation
681AB2 (base 16) zte corporation
12/F.,zte R&D building,kejinan Road,
shenzhen guangdong 518057
CN

7C-EB-AE (hex) Ridgeline Instruments
7CEBAE (base 16) Ridgeline Instruments
4803 Innovation Drive, Suite 3B
Fort Collins CO 80525
US

00-25-90 (hex) Super Micro Computer, Inc.
002590 (base 16) Super Micro Computer, Inc.
980 Rock Avenue
San Jose California 95131
US

00-FD-45 (hex) Hewlett Packard Enterprise
00FD45 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA
95747
US

24-C1-BD (hex) CRRC DALIAN R&D CO.,LTD.
24C1BD (base 16) CRRC DALIAN R&D CO.,LTD.
No.1 Haoyang North Street,Lvshun Economic Deveopment Zone
Dalian Liaoning 116052
CN

00-A2-EE (hex) Cisco Systems, Inc
00A2EE (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-59-DC (hex) Cisco Systems, Inc
0059DC (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

C8-D3-FF (hex) Hewlett Packard
C8D3FF (base 16) Hewlett Packard

11445 Compaq Center Drive
Houston TX 77070
US

C4-BE-84 (hex) Texas Instruments
C4BE84 (base 16) Texas Instruments
12500 TI Blvd
Dallas 75243
US

F4-F5-24 (hex) Motorola Mobility LLC, a Lenovo Company
F4F524 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

00-0B-2E (hex) Cal-Comp Electronics & Communications Company Ltd.
000B2E (base
16) Cal-Comp Electronics & Communications Company Ltd.
No.147, Sec. 3, Beishen Rd
Shenkeng Dist New Taipei City ---
TW

48-65-EE (hex) IEEE Registration Authority
4865EE (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

F4-CA-E5 (hex) FREEBOX SAS
F4CAE5 (base 16) FREEBOX SAS
8 rue de la Ville l'Eveque
PARIS IdF 75008
FR

00-BB-C1 (hex) CANON INC.
00BBC1 (base 16) CANON INC.
30-2 Shimomaruko 3-chome,
Ohta-ku Tokyo 146-8501
JP

00-13-A5 (hex) General Solutions, LTD.
0013A5 (base 16) General Solutions, LTD.
5902 Sovereign Drive
Houston Texas 77036
US

50-98-F3 (hex) Rheem Australia Pty Ltd

5098F3 (base 16) Rheem Australia Pty Ltd
1 Alan Street
Rydalmere NSW 2116
AU

50-6B-8D (hex) Nutanix
506B8D (base 16) Nutanix
1740 Technology Drive Ste #150
San Jose CA 95110
US

00-38-DF (hex) Cisco Systems, Inc
0038DF (base
16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

9C-3D-CF (hex) NETGEAR
9C3DCF (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

7C-26-34 (hex) ARRIS Group, Inc.
7C2634 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

40-F4-13 (hex) Rubezh
40F413 (base 16) Rubezh
Ulyanovskaya str. 28
Saratov 410056
RU

90-00-4E (hex) Hon Hai Precision Ind. Co.,Ltd.
90004E (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

24-88-94 (hex) shenzhen lensun Communication Technology LTD
248894 (base 16) shenzhen lensun Communication Technology LTD
RM 201, Block 19, Zhiheng industry Park, Nantou Check point
Shenzhen Guangdong 518000
CN

EC-10-7B (hex) Samsung Electronics Co.,Ltd
EC107B (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk
730-350
KR

B0-4B-BF (hex) PT HAN SUNG ELECTORONICS INDONESIA
B04BBF (base 16) PT HAN SUNG ELECTORONICS INDONESIA
JL.PALEM 1 BLOK DS-6
KAWASAN INDUSTRI BATIK LIPPO CIKARANG, DESA CIBATU, KECAMATAN CIKARANG SELATAN
BEKASI JAWA BARAT 17550
ID

CC-2D-83 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
CC2D83 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

00-15-FF (hex) Novatel Wireless Solutions, Inc.
0015FF (base 16) Novatel Wireless Solutions, Inc.
9710 Scranton Rd., Suite 200
San Diego CA 92121
US

D4-6E-0E (hex) TP-LINK TECHNOLOGIES CO.,LTD.
D46E0E (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

88-36-6C (hex) EFM Networks
88366C (base 16) EFM Networks
6F, Benposra II 1197-1 Bojeong Giheung
Gu
Yong In Kyunggi do 446913
KR

48-DA-96 (hex) Eddy Smart Home Solutions Inc.
48DA96 (base 16) Eddy Smart Home Solutions Inc.
1600-25 Sheppard Avenue West
Toronto Ontario M2N 6S6
CA

F0-74-E4 (hex) Thundercomm Technology Co., Ltd
F074E4 (base 16) Thundercomm Technology Co., Ltd
Building NO.4, 99# Xiantao Data Valley Zhonglu, Yubei District, Chongqing, China

chongqing 404100
CN

A0-72-2C (hex) HUMAX Co., Ltd.
A0722C (base 16) HUMAX Co., Ltd.
HUMAX Village, 216, Hwangsaeul-ro, Bu
Seongnam-si Gyeonggi-do 463-875
KR

C8-3D-D4 (hex) CyberTAN Technology Inc.
C83DD4 (base 16) CyberTAN Technology Inc.
99 Park Ave III, Hsinchu Science Park
Hsinchu 308
TW

E0-B9-4D (hex) SHENZHEN BILIAN ELECTRONIC CO.LTD
E0B94D (base 16) SHENZHEN BILIAN ELECTRONIC CO.LTD
NO.268 Fuqian Rd, Jutang community, Guanlan Town, Longhua New district
shenzhen guangdong 518000
CN

38-D5-47 (hex) ASUSTek
COMPUTER INC.
38D547 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

B4-D1-35 (hex) Cloudistics
B4D135 (base 16) Cloudistics
116000 Sunrise Valley Dr Suite 210
Reston VA 20190
US

F0-2F-A7 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F02FA7 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

18-DE-D7 (hex) HUAWEI TECHNOLOGIES CO.,LTD
18DED7 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

1C-23-2C (hex) Samsung Electronics Co.,Ltd
1C232C (base 16) Samsung Electronics Co.,Ltd

#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

78-88-8A (hex) CDR Sp. z o.o. Sp. k.
78888A (base 16) CDR Sp. z o.o. Sp. k.
Palki 15
Zory 44-240
PL

FC-D8-48 (hex) Apple, Inc.
FCD848 (base 16) Apple, Inc.
1
Infinite Loop
Cupertino CA 95014
US

E0-0D-B9 (hex) Cree, Inc.
E00DB9 (base 16) Cree, Inc.
4600 Silicon Drive
Durham NC 27703
US

FC-83-C6 (hex) N-Radio Technologies Co., Ltd.
FC83C6 (base 16) N-Radio Technologies Co., Ltd.
2#, 7F, Satellite Buiding, Keyuan Road, Nanshan
ShenZhen GuangDong 518000
CN

DC-0D-30 (hex) Shenzhen Feasycom Technology Co., Ltd.
DC0D30 (base 16) Shenzhen Feasycom Technology Co., Ltd.
#2004, Huichao Science & Technology Building, Jinhai Road, Xixiang
Shenzhen Guangdong 18000
CN

F0-AC-D7 (hex) IEEE Registration Authority
F0ACD7 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

00-21-D2 (hex) Samsung Electronics Co.,Ltd
0021D2 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-21-D1 (hex) Samsung Electronics Co.,Ltd

0021D1 (base 16) Samsung Electronics Co.,Ltd
#94-1,
Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-1F-CC (hex) Samsung Electronics Co.,Ltd
001FCC (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A4-29-83 (hex) Boeing Defence Australia
A42983 (base 16) Boeing Defence Australia
GPO Box 767
Brisbane Queensland 4001
AU

EC-88-92 (hex) Motorola Mobility LLC, a Lenovo Company
EC8892 (base 16) Motorola Mobility LLC, a Lenovo Company
222 Merchandise Mart Plaza, Suite 1800
Chicago IL 60654
US

94-95-A0 (hex) Google, Inc.
9495A0 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

00-A6-CA (hex) Cisco Systems, Inc
00A6CA (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

D8-45-2B (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
D8452B (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang
11900
MY

E4-18-6B (hex) Zyxel Communications Corporation
E4186B (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

D4-1D-71 (hex) Palo Alto Networks
D41D71 (base 16) Palo Alto Networks
3000 Tannery Way
Santa Clara CA 95054
US

00-87-31 (hex) Cisco Systems, Inc
008731 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

88-DE-A9 (hex) Roku, Inc.
88DEA9 (base 16) Roku, Inc.
12980 Saratoga Ave
Saratoga CA 95070
US

00-4A-77 (hex) zte corporation
004A77 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

60-A1-0A (hex) Samsung Electronics Co.,Ltd
60A10A (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

8C-71-F8 (hex) Samsung Electronics Co.,Ltd
8C71F8 (base 16) Samsung Electronics
Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

CC-05-1B (hex) Samsung Electronics Co.,Ltd
CC051B (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

8C-77-12 (hex) Samsung Electronics Co.,Ltd
8C7712 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350

KR

94-63-D1 (hex) Samsung Electronics Co.,Ltd
9463D1 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

1C-9D-3E (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
1C9D3E (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

74-87-A9 (hex) OCT Technology Co., Ltd.
7487A9 (base 16) OCT Technology Co., Ltd.
8F. -2, No. 94, Baojhong Rd. Sindian Dist.
New Taipei City 231
TW

2C-3F-0B (hex) Cisco Meraki
2C3F0B (base 16) Cisco Meraki
500 Terry A. Francois
Blvd
San Francisco null 94158
US

50-3F-98 (hex) CMITECH
503F98 (base 16) CMITECH
904-ho, 25, Simin-daero 248beon-gil, Dongan-gu
Anyang-si Gyeonggi-do 14067
KR

5C-49-7D (hex) Samsung Electronics Co.,Ltd
5C497D (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

98-23-4E (hex) Micromedia AG
98234E (base 16) Micromedia AG
Gartenweg 46
Buonas Zug 6343
CH

78-20-79 (hex) ID Tech
782079 (base 16) ID Tech
10721 Walker St

Cypress CA 90630
US

78-D6-F0 (hex) SAMSUNG ELECTRO MECHANICS CO., LTD.
78D6F0 (base 16) SAMSUNG ELECTRO MECHANICS CO., LTD.
Metan Dong 314, Youngtong Gu
Suwon Kyung-gi Do. 443-743
KR

78-25-AD (hex) Samsung Electronics Co.,Ltd
7825AD (base 16) Samsung Electronics Co.,Ltd
416, MAETAN-3DONG, PALDAL-GU
SUWON CITY KYUNGKI-DO 442-742
KR

EC-E0-9B (hex) Samsung Electronics Co.,Ltd
ECE09B
(base 16) Samsung Electronics Co.,Ltd
416, Maetan-3dong, Yeongtong-gu,
Suwon-City Gyeonggi-do 443-742
KR

00-16-32 (hex) Samsung Electronics Co.,Ltd
001632 (base 16) Samsung Electronics Co.,Ltd
416, METAN-3DONG,
SUWON KYUNGKI-DO 442-742
KR

0C-60-76 (hex) Hon Hai Precision Ind. Co.,Ltd.
0C6076 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

0C-EE-E6 (hex) Hon Hai Precision Ind. Co.,Ltd.
0CEEE6 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

E4-D5-3D (hex) Hon Hai Precision Ind. Co.,Ltd.
E4D53D (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

C0-14-3D (hex) Hon Hai Precision Ind. Co.,Ltd.
C0143D (base 16) Hon Hai Precision Ind. Co.,Ltd.

Building D21,No.1, East Zone 1st Road
Chongqing
Chongqing 401332
CN

C0-18-85 (hex) Hon Hai Precision Ind. Co.,Ltd.
C01885 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

58-94-CF (hex) Vertex Standard LMR, Inc.
5894CF (base 16) Vertex Standard LMR, Inc.
4-8-8 Nakameguro
Meguro-ku Tokyo 153-8644
JP

20-F8-5E (hex) Delta Electronics
20F85E (base 16) Delta Electronics
252 Shangying Road
Taoyuan County Taiwan 33341
TW

E4-E0-C5 (hex) Samsung Electronics Co.,Ltd
E4E0C5 (base 16) Samsung Electronics Co.,Ltd
416, Maetan-3dong, Yeongtong-gu
Suwon Gyeonggi-do 443742
KR

20-D5-BF (hex) Samsung Electronics Co.,Ltd
20D5BF (base 16) Samsung Electronics Co.,Ltd
416, Maetan 3dong, Yeongtong-Gu
Suwon Gyeonggi-Do 443742
KR

00-23-E4 (hex) IPnect co. ltd.
0023E4 (base 16) IPnect co. ltd.
808 albatross B/D 237-18
Seoul 153-801
KR

70-D4-F2 (hex) RIM
70D4F2
(base 16) RIM
Phillip Street
Waterloo Ontario N2L 3W8
CA

00-16-DB (hex) Samsung Electronics Co.,Ltd
0016DB (base 16) Samsung Electronics Co.,Ltd
#94-1
Gumi-City Gyeong-Buk 730-350
KR

00-1E-E2 (hex) Samsung Electronics Co.,Ltd
001EE2 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C0-BD-D1 (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
C0BDD1 (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T. Bangsamak
Bangpakong Chachoengsao 24180
TH

B4-79-A7 (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
B479A7 (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T. Bangsamak
Bangpakong Chachoengsao 24180
TH

7C-11-CB (hex) HUAWEI TECHNOLOGIES CO.,LTD
7C11CB (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

1C-25-E1 (hex) China Mobile IOT Company Limited
1C25E1
(base 16) China Mobile IOT Company Limited
NO.8 Yu Ma Road, NanAn Area
Chongqing Chongqing 401336
CN

C0-F6-36 (hex) Hangzhou Kuaiyue Technologies, Ltd.
C0F636 (base 16) Hangzhou Kuaiyue Technologies, Ltd.
Dongguan Hitech Park, Building 1-805, 288 Qiuyi Rd, Bingjiang District
Hangzhou Zhejiang 310053
CN

BC-20-A4 (hex) Samsung Electronics Co.,Ltd
BC20A4 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

08-D4-2B (hex) Samsung Electronics Co.,Ltd
08D42B (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

78-9E-D0 (hex) Samsung Electronics Co.,Ltd
789ED0 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B0-C4-E7 (hex) Samsung Electronics Co.,Ltd
B0C4E7 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C8-14-79 (hex) Samsung Electronics
Co.,Ltd
C81479 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-24-90 (hex) Samsung Electronics Co.,Ltd
002490 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-23-D7 (hex) Samsung Electronics Co.,Ltd
0023D7 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

54-9B-12 (hex) Samsung Electronics Co.,Ltd
549B12 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

FC-A1-3E (hex) Samsung Electronics Co.,Ltd
FCA13E (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350

KR

A0-07-98 (hex) Samsung Electronics Co.,Ltd
A00798 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-1A-22 (hex) eQ-3 Entwicklung GmbH
001A22 (base 16) eQ-3 Entwicklung GmbH
Maiburger Str.
36
Leer Niedersachsen D-26789
DE

1C-AF-05 (hex) Samsung Electronics Co.,Ltd
1CAF05 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

24-C6-96 (hex) Samsung Electronics Co.,Ltd
24C696 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

94-D7-71 (hex) Samsung Electronics Co.,Ltd
94D771 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

E8-4E-84 (hex) Samsung Electronics Co.,Ltd
E84E84 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B0-DF-3A (hex) Samsung Electronics Co.,Ltd
B0DF3A (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

80-57-19 (hex) Samsung Electronics Co.,Ltd
805719 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong

Gumi Gyeongbuk 730-350
KR

34-BE-00 (hex) Samsung Electronics
Co.,Ltd
34BE00 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

78-52-1A (hex) Samsung Electronics Co.,Ltd
78521A (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-1F-CD (hex) Samsung Electronics Co.,Ltd
001FCD (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

38-EC-E4 (hex) Samsung Electronics Co.,Ltd
38ECE4 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

94-51-03 (hex) Samsung Electronics Co.,Ltd
945103 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

5C-E8-EB (hex) Samsung Electronics Co.,Ltd
5CE8EB (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

24-0D-C2 (hex) TCT mobile ltd
240DC2 (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai,
Hi-Tech District
Hui Zhou Guang Dong 516006
CN

04-FE-A1 (hex) Fihonest communication co.,Ltd

04FEA1 (base 16) Fihonest communication co.,Ltd
Room902,Park road,Zhixing business-building
Dongguan Guangdong 523560
CN

EC-8C-A2 (hex) Ruckus Wireless
EC8CA2 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

EC-8E-AE (hex) Nagravision SA
EC8EAE (base 16) Nagravision SA
Route de Geneve 22-24, PO 7980
Cheseaux Vaud 1033
CH

E0-E7-BB (hex) Nureva, Inc.
E0E7BB (base 16) Nureva, Inc.
1000, 1221 8th Street SW
Calgary AB T2R 0L4
CA

54-6C-0E (hex) Texas Instruments
546C0E (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

A0-43-DB (hex) Sitael S.p.A.
A043DB (base 16) Sitael S.p.A.
Via San Sabino, 21
Mola di Bari BA 70042
IT

70-85-C6 (hex) ARRIS Group, Inc.
7085C6 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San
Diego CA 92121
US

54-E2-E0 (hex) ARRIS Group, Inc.
54E2E0 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

34-7A-60 (hex) ARRIS Group, Inc.
347A60 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1C-C3 (hex) ARRIS Group, Inc.
001CC3 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

20-BB-C6 (hex) Jabil Circuit Hungary Ltd.
20BBC6 (base 16) Jabil Circuit Hungary Ltd.
Huszár Andor 1.
Tiszaújváros H-3580
HU

00-B0-B3 (hex) XSTREAMIS PLC
00B0B3 (base 16) XSTREAMIS PLC
Magdalen Centre
Oxford 0X4 4GA 0000
GB

00-23-63 (hex) Zhuhai Raysharp Technology Co.,Ltd
002363 (base 16) Zhuhai Raysharp Technology Co.,Ltd
No.119 of Huawei Road, Qianshan Science & Technology Park,
Zhuhai Guangdong 519070
CN

00-90-58 (hex) Ultra Electronics Command & Control Systems
009058 (base 16) Ultra
Electronics Command & Control Systems
Knaves Beech Business Centre
Hemel Hemstead Herts England HP2 7BW
GB

00-1C-FD (hex) Universal Electronics, Inc.
001CFD (base 16) Universal Electronics, Inc.
6101 Gateway Drive
Cypress 90630
US

00-10-87 (hex) XSTREAMIS PLC
001087 (base 16) XSTREAMIS PLC
OXFORD SCIENCE PARK
OXFORD 0X4 4GA 00000
US

AC-48-2D (hex) Ralinwi Nanjing Electronic Technology Co., Ltd.
AC482D (base 16) Ralinwi Nanjing Electronic Technology Co., Ltd.
3rd Floor, Building B,R&D Block 3, Xuzhuang Software Park, No. 699-27, Xuanwu Avenue
Nanjing Jiangsu 210046
CN

B8-00-18 (hex) Htel
B80018 (base 16) Htel
Dunchon-dearo, Jungwon-gu
Seongnam-si Gyeonggi-do 13229
KR

74-72-B0 (hex) Guangzhou Shiyuan Electronics Co., Ltd.
7472B0 (base 16) Guangzhou Shiyuan Electronics Co., Ltd.
No.6, 4th Yunpu Road, Yunpu Industry District
Guangzhou Guangdong 510530
CN

DC-1A-01
(hex) Ecoliv Technology (Shenzhen) Ltd.
DC1A01 (base 16) Ecoliv Technology (Shenzhen) Ltd.
B-734, Tianhui building, Longhua Street, Pine Road, Longhua District
Shenzhen Guangdong 518109
CN

08-00-87 (hex) Xyplex, Inc.
080087 (base 16) Xyplex, Inc.
295 FOSTER STREET
LITTLETON MA 01460
US

00-54-9F (hex) Avaya Inc
00549F (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

04-9F-CA (hex) HUAWEI TECHNOLOGIES CO.,LTD
049FCA (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

50-01-6B (hex) HUAWEI TECHNOLOGIES CO.,LTD
50016B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808

CN

00-00-1B (hex) Novell, Inc.
00001B (base 16) Novell, Inc.
122 EAST 1700 SOUTH
PROVO UT 84606
US

00-04-DC (hex) Nortel Networks
0004DC
(base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-0C-F7 (hex) Nortel Networks
000CF7 (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-0F-CD (hex) Nortel Networks
000FCD (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

28-24-FF (hex) Wistron Neweb Corporation
2824FF (base 16) Wistron Neweb Corporation
No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu R.O.C. 308
TW

38-25-6B (hex) Microsoft Mobile Oy
38256B (base 16) Microsoft Mobile Oy
Keilalahdentie 4
Espoo 02150
FI

20-3A-EF (hex) Sivantos GmbH
203AEF (base 16) Sivantos GmbH
Henri-Dunant-Strasse 100
Erlangen Bavaria 91058
DE

00-59-79 (hex) Networked Energy Services
005979 (base 16) Networked Energy Services
5215 Hellyer Avenue

San Jose CA 95138
US

D8-47-10 (hex) Sichuan Changhong Electric Ltd.
D84710 (base 16) Sichuan
Changhong Electric Ltd.
35 East Mianxing Road,High-Tech Park,
MianYang SiChuan 621000
CN

00-19-72 (hex) Plexus (Xiamen) Co.,ltd.
001972 (base 16) Plexus (Xiamen) Co.,ltd.
No.6 Xiangxing 2 Road
Xiamen Fujian 361006
CN

4C-B2-1C (hex) Maxphotonics Co.,Ltd
4CB21C (base 16) Maxphotonics Co.,Ltd
Maxphotonics Industrial Park,Third Furong Road,Furong Industrial Area,Shajing,BaoAn
ShenZhen GuangDong 518125
CN

20-5E-F7 (hex) Samsung Electronics Co.,Ltd
205EF7 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

14-1F-78 (hex) Samsung Electronics Co.,Ltd
141F78 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-23-47 (hex) ProCurve Networking by HP
002347 (base 16) ProCurve Networking by HP
60 Alexandra Terrace
0000 118502
SG

00-24-A8 (hex) ProCurve Networking by HP
0024A8 (base 16) ProCurve Networking
by HP
60 Alexandra Terrace
0000 118502
SG

C0-91-34 (hex) ProCurve Networking by HP

C09134 (base 16) ProCurve Networking by HP
60 Alexandra Terrace
0000 118502
SG

00-1C-EF (hex) Primax Electronics Ltd.
001CEF (base 16) Primax Electronics Ltd.
669, Ruey Kuang Road, Neihu
Taipei 114
TW

00-02-76 (hex) Primax Electronics Ltd.
000276 (base 16) Primax Electronics Ltd.
No. 669, Ruey Kuang Road, Neihu
Taipei Taiwan, R.O.C.
TW

A8-AD-3D (hex) Alcatel-Lucent Shanghai Bell Co., Ltd
A8AD3D (base 16) Alcatel-Lucent Shanghai Bell Co., Ltd
No. 389, Ningqiao Road, Pudong Jinqiao
Shanghai 201206
CN

24-AF-4A (hex) Alcatel-Lucent IPD
24AF4A (base 16) Alcatel-Lucent IPD
701 E. Middlefield Rd.
Mountain View CA 94043
US

7C-20-64 (hex) Alcatel-Lucent IPD
7C2064 (base 16) Alcatel-Lucent IPD
600 March Drive
Kanata Ontario K2K2E6
CA

48-F8-E1 (hex) Nokia
48F8E1
(base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

8C-90-D3 (hex) Nokia
8C90D3 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

20-7C-8F (hex) Quanta Microsystems,Inc.
207C8F (base 16) Quanta Microsystems,Inc.
No.5 Lane 91,Dongmei Rd.
Hsinchu 300
TW

00-0B-34 (hex) ShangHai Broadband Technologies CO.LTD
000B34 (base 16) ShangHai Broadband Technologies CO.LTD
17F,No.122,HuangXing Road
ShangHai 200090
CN

30-92-F6 (hex) SHANGHAI SUNMON COMMUNICATION TECHNOGY CO.,LTD
3092F6 (base 16) SHANGHAI SUNMON COMMUNICATION TECHNOGY CO.,LTD
Suite 604-605,Xing Yuan Technology Plaza
00000 ShangHai 200233
CN

00-1B-BA (hex) Nortel Networks
001BBA (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-19-69 (hex) Nortel Networks
001969 (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-18-B0
(hex) Nortel Networks
0018B0 (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-16-CA (hex) Nortel Networks
0016CA (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-14-78 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
001478 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
3/F,Bldg.R1-B,Hi-tech Industrial Park,
ShenZhen GuangDong 518057
CN

00-14-0E (hex) Nortel Networks
00140E (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-1E-1F (hex) Nortel Networks
001E1F (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

C4-4B-D1 (hex) Wallys Communications Teachnologies Co.,Ltd.
C44BD1 (base 16) Wallys Communications Teachnologies Co.,Ltd.
5-207, DongHong Pioneer Park, #99 YangYu Lane,
SuZhou JiangSu 215000
CN

6C-B9-C5 (hex) Delta Networks, Inc.
6CB9C5 (base 16) Delta Networks, Inc.
256 Yang Guang Street,
Neihu
Taipei Taiwan 11491
TW

00-28-F8 (hex) Intel Corporate
0028F8 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

58-BC-8F (hex) Cognitive Systems Corp.
58BC8F (base 16) Cognitive Systems Corp.
560 Westmount Road North
Waterloo Ontario N2L 0A9
CA

D4-55-BE (hex) SHENZHEN FAST TECHNOLOGIES CO.,LTD
D455BE (base 16) SHENZHEN FAST TECHNOLOGIES CO.,LTD
Room 202,Building No.5,Section 30,No.2 of Kefa Road,Nanshan District,Shenzhen,P.R.China
Shenzhen Guangdong 518057
CN

B8-BB-23 (hex) Guangdong Nufront CSC Co., Ltd
B8BB23 (base 16) Guangdong Nufront CSC Co., Ltd
A403-414, Building 13, No.232 Waihuan East Road, Higher Education Mega Center, Guangdong 510006, China

Guangzhou Guangdong 510006
CN

34-EA-34 (hex) HangZhou Gubei Electronics Technology Co.,Ltd
34EA34 (base 16) HangZhou Gubei Electronics Technology Co.,Ltd
Room 106, No.611 Jianghong
Road, Binjiang District, Hangzhou, Zhejiang, China
Hangzhou ZheJiang 310052
CN

EC-26-FB (hex) TECC CO.,LTD.
EC26FB (base 16) TECC CO.,LTD.
Guam-ro 15-gil, Buk-gu
Daegu 720-849
KR

44-DC-91 (hex) PLANEX COMMUNICATIONS INC.
44DC91 (base 16) PLANEX COMMUNICATIONS INC.
2F F-NISSAY Ebisu Bldg 3-16-3 Higashi,
Shibuya-ku Tokyo 150-0011
JP

E0-9D-B8 (hex) PLANEX COMMUNICATIONS INC.
E09DB8 (base 16) PLANEX COMMUNICATIONS INC.
Planex Volta Bldg., 2-11-9 Ebisu-Nishi,Shibuya-ku,
00000 1500021
US

00-0F-59 (hex) Phonak AG
000F59 (base 16) Phonak AG
Länggasse 17
Murten FR 3280
CH

74-B5-7E (hex) zte corporation
74B57E (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

00-20-F4 (hex) SPECTRIX CORPORATION
0020F4 (base 16) SPECTRIX CORPORATION
106 WILMOT ROAD, SUITE 250
DEERFIELD IL 60015-5150
US

04-EE-91

(hex) x-fabric GmbH
04EE91 (base 16) x-fabric GmbH
Nachodstraße 7
Berlin 10779
DE

C4-9A-02 (hex) LG Electronics (Mobile Communications)
C49A02 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

54-D2-72 (hex) Nuki Home Solutions GmbH
54D272 (base 16) Nuki Home Solutions GmbH
Muenzgrabenstrasse 92
Graz 8010
AT

B4-74-43 (hex) Samsung Electronics Co.,Ltd
B47443 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

30-76-6F (hex) LG Electronics (Mobile Communications)
30766F (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

A8-92-2C (hex) LG Electronics (Mobile Communications)
A8922C (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

F8-0C-F3 (hex) LG Electronics (Mobile
Communications)
F80CF3 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

00-1F-6B (hex) LG Electronics (Mobile Communications)
001F6B (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

00-26-E2 (hex) LG Electronics (Mobile Communications)
0026E2 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

E8-88-6C (hex) Shenzhen SC Technologies Co.,LTD
E8886C (base 16) Shenzhen SC Technologies Co.,LTD
4/FL,2Block,LianChuang Industrial Park,Bulan Road,Longgang
Shenzhen Guangdong Province 518112
CN

DC-35-F1 (hex) Positivo Tecnologia S.A.
DC35F1 (base 16) Positivo Tecnologia S.A.
João Bettega, 5200
Curitiba Paraná 81350-000
BR

00-24-FF (hex) QLogic Corporation
0024FF (base 16) QLogic Corporation
26650 Aliso Viejo Parkway
Aliso Viejo
CA 92656
US

00-1E-21 (hex) Qisda Corporation
001E21 (base 16) Qisda Corporation
157 Shan-Ying Road, Gueishan
Taoyuan 333
TW

00-03-9D (hex) Qisda Corporation
00039D (base 16) Qisda Corporation
157 Shan Ying Road
GueiShan Taoyuan 333
TW

00-08-0D (hex) Toshiba
00080D (base 16) Toshiba
2-9, Suehiro-cho,
Tokyo 198-8710
JP

00-0E-7B (hex) Toshiba
000E7B (base 16) Toshiba
2-9, Suehiro-Cho
Ome Tokyo 1988710

JP

E8-E0-B7 (hex) Toshiba
E8E0B7 (base 16) Toshiba
2-9,Suehiro-Cho
Ome Tokyo 1988710
JP

00-03-B2 (hex) Radware
0003B2 (base 16) Radware
8 Hamrpe Hochvim
000 0000
IL

00-A0-C6 (hex) Qualcomm Inc.
00A0C6 (base 16) Qualcomm Inc.
6455 LUSK BLVD
SAN DIEGO CA 92121
US

64-9C-81 (hex) Qualcomm Inc.
649C81 (base 16) Qualcomm Inc.
5665 Morehouse Drive
San Diego CA 92071
US

00-21-86 (hex) Universal Global
Scientific Industrial Co., Ltd.
002186 (base 16) Universal Global Scientific Industrial Co., Ltd.
141, Lane 351, Sec.1, Taiping Road,
NANTOU 54261
TW

18-39-19 (hex) Unicoi Systems
183919 (base 16) Unicoi Systems
410 Peachtree Pkwy
Cumming GA 30041
US

00-C0-E4 (hex) SIEMENS BUILDING
00C0E4 (base 16) SIEMENS BUILDING
TECHNOLOGIES, INC.
BUFFALO GROVE IL 60089
US

00-0D-10 (hex) Embedtronics Oy
000D10 (base 16) Embedtronics Oy
Leväsentie 23

Kuopio 70780
FI

FC-F6-47 (hex) Fiberhome Telecommunication Technologies Co.,LTD
FCF647 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan City Hubei Province 430074
CN

18-68-6A (hex) zte corporation
18686A (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

DC-44-27 (hex) IEEE Registration Authority
DC4427 (base 16) IEEE
Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

00-1A-6A (hex) Tranzas, Inc.
001A6A (base 16) Tranzas, Inc.
Queens tower C17
Yokohama Kanagawa-ken 220-6217
JP

BC-34-00 (hex) IEEE Registration Authority
BC3400 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

A4-71-74 (hex) HUAWEI TECHNOLOGIES CO.,LTD
A47174 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F4-CB-52 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F4CB52 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B8-08-D7 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B808D7 (base 16) HUAWEI TECHNOLOGIES CO.,LTD

No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

94-61-1E (hex) Wata Electronics Co.,Ltd.
94611E (base 16) Wata Electronics
Co.,Ltd.
No 142,South Tanshen Road, Tanzhou Town,Zhongshan City,Guangdong,China
Zhongshan Guangdong 528467
CN

A0-20-A6 (hex) Espressif Inc.
A020A6 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

58-52-8A (hex) Mitsubishi Electric Corporation
58528A (base 16) Mitsubishi Electric Corporation
2-7-3 Marunouchi Chiyoda-ku
Tokyo 100-8310
JP

68-07-15 (hex) Intel Corporate
680715 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

3C-B6-B7 (hex) vivo Mobile Communication Co., Ltd.
3CB6B7 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong 523860
CN

00-1F-A8 (hex) Smart Energy Instruments Inc.
001FA8 (base 16) Smart Energy Instruments Inc.
297 Lakeshore Road East
Oakville Ontario L6J 1J3
CA

00-0F-DB (hex) Westell Technologies Inc.
000FDB
(base 16) Westell Technologies Inc.
750 N Commons Dr
Aurora IL 60504
US

78-44-76 (hex) Zioncom Electronics (Shenzhen) Ltd.
784476 (base 16) Zioncom Electronics (Shenzhen) Ltd.
A1&A2 building,lantian technology park, xinyu road, xingqiao henggang block, shajing street, Baoan District
shenzhen guangdong 518000
CN

00-11-65 (hex) ZNYX Networks, Inc.
001165 (base 16) ZNYX Networks, Inc.
48421 Milmont Drive
Fremont CA 94538
US

3C-07-71 (hex) Sony Corporation
3C0771 (base 16) Sony Corporation
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

80-41-4E (hex) BBK EDUCATIONAL ELECTRONICS CORP.,LTD.
80414E (base 16) BBK EDUCATIONAL ELECTRONICS CORP.,LTD.
LiWu INDUSTRIAL PARK,Wusha,Chang'an
Dong Guan Guang Dong 523860
CN

24-94-42 (hex) OPEN ROAD SOLUTIONS , INC.
249442 (base 16) OPEN ROAD SOLUTIONS , INC.
88-13 SHUILI ROAD
HSINCHU 30059
TW

C4-64-13 (hex) Cisco
Systems, Inc
C46413 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-10-CA (hex) Telco Systems, Inc.
0010CA (base 16) Telco Systems, Inc.
15 Berkshire Road
Mansfield, MA 02048
US

00-E0-9E (hex) Quantum Corporation
00E09E (base 16) Quantum Corporation
500 McCarthy Boulevard
Milpitas CA 95035
US

00-0A-08 (hex) Alps Alpine
000A08 (base 16) Alps Alpine
20-1 Yoshima-Kogyodanchi
iwaki-city Fukushima 970-1192
JP

20-6A-8A (hex) Wistron Infocomm (Zhongshan) Corporation
206A8A (base 16) Wistron Infocomm (Zhongshan) Corporation
168# First Avenue,Kunshan Export Processing Zone
Kunshan Jiangsu 215300
CN

00-0A-68 (hex) Solarflare Communications Inc.
000A68 (base 16) Solarflare Communications Inc.
Suite 100, 7505 Irvine Center Drive
Irvine CA 92618
US

00-1E-C0 (hex) Microchip Technology Inc.
001EC0 (base 16) Microchip Technology Inc.
2355
W. Chandler Blvd.
Chandler AZ 85224
US

C4-F1-D1 (hex) BEIJING SOGOU TECHNOLOGY DEVELOPMENT CO., LTD.
C4F1D1 (base 16) BEIJING SOGOU TECHNOLOGY DEVELOPMENT CO., LTD.
SOHU.COM INTERNET PLAZA, NO.1 PARK, ZHONGGUANCHUN EAST ROAD. HAIDIAN DISTRICT
Beijing 100000
CN

38-BC-1A (hex) MEIZU Technology Co., Ltd.
38BC1A (base 16) MEIZU Technology Co., Ltd.
MEIZU Tech Bldg., Technology & Innovation Coast
Zhuhai Guangdong 519085
CN

EC-D6-8A (hex) Shenzhen JMicron Intelligent Technology Developmen
ECD68A (base 16) Shenzhen JMicron Intelligent Technology Developmen
Futian District, 13th Floor , Block B Building Tai
Shenzhen Guangdong Province 518040
CN

50-52-D2 (hex) Hangzhou Telin Technologies Co., Limited
5052D2 (base 16) Hangzhou Telin Technologies Co., Limited
8 floor,D Building,Paradise Software Park,No. 3 Xidoumen Road, Xihu District, Hangzhou
Hangzhou Zhejiang 310013

CN

90-EE-D9 (hex) UNIVERSAL
DE DESARROLLOS ELECTRÓNICOS, SA
90EED9 (base 16) UNIVERSAL DE DESARROLLOS ELECTRÓNICOS, SA
CRTA DE CASTELLAR, 298
TERRASSA BARCELONA 08226
ES

7C-57-4E (hex) COBI GmbH
7C574E (base 16) COBI GmbH
Solmsstrasse 4
Frankfurt am Main 60486
DE

04-56-04 (hex) Gionee Communication Equipment Co.,Ltd.
045604 (base 16) Gionee Communication Equipment Co.,Ltd.
21/F,Times Technology Building,No. 7028,Shennan Avenue,Futian District
Shenzhen 518000
CN

C8-AF-E3 (hex) Hefei Radio Communication Technology Co., Ltd
C8AFE3 (base 16) Hefei Radio Communication Technology Co., Ltd
No.108, YinXing Road, High-tech Development Zone
Hefei Anhui 230088
CN

94-59-07 (hex) Shanghai HITE-BELDEN Network Technology Co., Ltd.
945907 (base 16) Shanghai HITE-BELDEN Network Technology Co., Ltd.
No. 777, Xinjun Ring Road, Pujiang Hi-Tech Park, Minhang District
Shanghai Shanghai 201114
CN

00-18-48
(hex) Vecima Networks Inc.
001848 (base 16) Vecima Networks Inc.
150 Cardinal Place
Saskatoon SK S7L 6H7
CA

00-16-FB (hex) SHENZHEN MTC CO LTD
0016FB (base 16) SHENZHEN MTC CO LTD
5/F BenYuan Bldg,6015 ShenNan Road
ShenZhen GuangDong 518040
CN

74-CC-39 (hex) Fiberhome Telecommunication Technologies Co.,LTD
74CC39 (base 16) Fiberhome Telecommunication Technologies Co.,LTD

No.5 DongXin Road
Wuhan Hubei 430074
CN

34-0A-FF (hex) Qingdao Hisense Communications Co.,Ltd.
340AFF (base 16) Qingdao Hisense Communications Co.,Ltd.
Qianwangang Road 218
Qingdao Shandong 266510
CN

58-7E-61 (hex) Qingdao Hisense Communications Co.,Ltd.
587E61 (base 16) Qingdao Hisense Communications Co.,Ltd.
Qianwangang Road 218
Qingdao Shandong 266510
CN

C0-A1-A2 (hex) MarqMetrix
C0A1A2 (base 16) MarqMetrix
410 West Harrison ST #200
Seattle WA 98119
US

08-D0-B7 (hex) Qingdao
Hisense Communications Co.,Ltd.
08D0B7 (base 16) Qingdao Hisense Communications Co.,Ltd.
Qianwangang Road 218
Qingdao Shandong 266510
CN

00-FE-C8 (hex) Cisco Systems, Inc
00FEC8 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-25-3E (hex) Sensus Metering Systems
00253E (base 16) Sensus Metering Systems
10147 W. Emerald Street
Boise Idaho 83704
US

60-64-53 (hex) AOD Co.,Ltd.
606453 (base 16) AOD Co.,Ltd.
No. 13155, Yuqing Street, High-Technology Development Zone,
Weifang Shandong 261061
CN

6C-98-EB (hex) Riverbed Technology, Inc.

6C98EB (base 16) Riverbed Technology, Inc.
680 Folsom St
San Francisco CA 94107
US

00-9E-1E (hex) Cisco Systems, Inc
009E1E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

2C-36-A0 (hex) Capisco Limited
2C36A0 (base 16) Capisco Limited
PO Box 938
Auckland 0943
NZ

B0-B2-DC
(hex) Zyxel Communications Corporation
B0B2DC (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

CC-5D-4E (hex) Zyxel Communications Corporation
CC5D4E (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

40-4A-03 (hex) Zyxel Communications Corporation
404A03 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

C8-6C-87 (hex) Zyxel Communications Corporation
C86C87 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

E4-7B-3F (hex) BEIJING CO-CLOUD TECHNOLOGY LTD.
E47B3F (base 16) BEIJING CO-CLOUD TECHNOLOGY LTD.
903 RoomPower Create E No.1 Shangdi East Road
Beijing Beijing 100085
CN

54-ED-A3 (hex) Navdy, Inc.
54EDA3 (base 16) Navdy, Inc.
575 7th
Street
San Francisco CA 94103
US

10-BE-F5 (hex) D-Link International
10BEF5 (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy, Singapore
Singapore Singapore 609917
SG

A0-41-5E (hex) Opsens Solution Inc.
A0415E (base 16) Opsens Solution Inc.
2014 rue Cyrille-Duquet, suite 125
Quebec QC G1N 4N6
CA

2C-5A-8D (hex) SYSTRONIK Elektronik u. Systemtechnik GmbH
2C5A8D (base 16) SYSTRONIK Elektronik u. Systemtechnik GmbH
Gewerbestrasse 57
ILLMENSEE 88636
DE

38-22-D6 (hex) Hangzhou H3C Technologies Co., Limited
3822D6 (base 16) Hangzhou H3C Technologies Co., Limited
310 Liuhe Road, Zhijiang Science Park
Hangzhou Zhejiang, 310053
CN

A8-60-B6 (hex) Apple, Inc.
A860B6 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C4-B3-01 (hex) Apple, Inc.
C4B301 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E0-5F-45
(hex) Apple, Inc.
E05F45 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

48-3B-38 (hex) Apple, Inc.
483B38 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

1C-91-48 (hex) Apple, Inc.
1C9148 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

34-A2-A2 (hex) HUAWEI TECHNOLOGIES CO.,LTD
34A2A2 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

74-9D-8F (hex) HUAWEI TECHNOLOGIES CO.,LTD
749D8F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C8-64-C7 (hex) zte corporation
C864C7 (base 16) zte corporation
12/F.,zte R&D building,kejinan Road,
shenzhen guangdong 518057
CN

00-22-E7 (hex) WPS Parking Systems
0022E7 (base 16) WPS Parking Systems
Hoevenweg 11
Eindhoven Noord-Brabant
5652 AW
NL

0C-8A-87 (hex) AgLogica Holdings, Inc
0C8A87 (base 16) AgLogica Holdings, Inc
333 Research Ct NW Ste 230
Norcross GA 30092
US

B8-E7-79 (hex) 9Solutions Oy
B8E779 (base 16) 9Solutions Oy
Teknologiantie 2

Oulu 90590
FI

28-F3-66 (hex) Shenzhen Bilian electronic CO.,LTD
28F366 (base 16) Shenzhen Bilian electronic CO.,LTD
NO 268Fuqian Rd,Jutang Community,Guanlan town , LongHua new district,Shenzhen,518110,China.
Shenzhen 518110
CN

E0-A3-AC (hex) HUAWEI TECHNOLOGIES CO.,LTD
E0A3AC (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

BC-75-74 (hex) HUAWEI TECHNOLOGIES CO.,LTD
BC7574 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

20-A6-80 (hex) HUAWEI TECHNOLOGIES CO.,LTD
20A680 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2
Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

88-28-B3 (hex) HUAWEI TECHNOLOGIES CO.,LTD
8828B3 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F8-23-B2 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F823B2 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

34-12-90 (hex) Treeview Co.,Ltd.
341290 (base 16) Treeview Co.,Ltd.
106/29 BANGLAMUNG
BANGLAMUNG CHONBURI 20150
TH

7C-FE-4E (hex) Shenzhen Safe vision Technology Co.,LTD
7CFE4E (base 16) Shenzhen Safe vision Technology Co.,LTD

Shenzhen ring view south road and 27 digital dragon industrial park industrial zone
shenzhen Guangdong province 518110
CN

64-4F-B0 (hex) Hyunjin.com
644FB0 (base 16) Hyunjin.com
Hyochang-dong 5-86, Yongsan-gu
Seoul 140-896
KR

00-E0-E6
(hex) INCAA Computers
00E0E6 (base 16) INCAA Computers
P.O. BOX 211
7300 AE APELDOORN na
NL

6C-3B-6B (hex) Routerboard.com
6C3B6B (base 16) Routerboard.com
Mikrotikls SIA
Riga Riga LV1009
LV

00-6C-BC (hex) Cisco Systems, Inc
006CBC (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

5C-70-A3 (hex) LG Electronics (Mobile Communications)
5C70A3 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

94-E8-C5 (hex) ARRIS Group, Inc.
94E8C5 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1D-08 (hex) Jiangsu Yinhe Electronics Co.,Ltd.
001D08 (base 16) Jiangsu Yinhe Electronics Co.,Ltd.
188 NANHUAN ROAD
ZHANGJIAGANG JIANGSU 215611
CN

48-51-B7 (hex) Intel Corporate

4851B7 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

90-5F-2E
(hex) TCT mobile ltd
905F2E (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

B4-B1-5A (hex) Siemens AG Energy Management Division
B4B15A (base 16) Siemens AG Energy Management Division
Humboldtstr. 59
Nurnberg Bavaria 90459
DE

00-A0-A4 (hex) Oracle Corporation
00A0A4 (base 16) Oracle Corporation
500 Oracle Parkway
Redwood Shores CA 94065
US

74-97-81 (hex) zte corporation
749781 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

9C-DF-03 (hex) Harman/Becker Automotive Systems GmbH
9CDF03 (base 16) Harman/Becker Automotive Systems GmbH
Becker-Göring-Straße 16
Karlsbad Baden-Württemberg 76307
DE

00-11-88 (hex) Enterasys
001188 (base 16) Enterasys
35 Industrial Way
Rochester NH 03867
US

00-01-F4 (hex) Enterasys
0001F4
(base 16) Enterasys
35 Industrial Way
Rochester NH 03867
US

00-10-9B (hex) Emulex Corporation
00109B (base 16) Emulex Corporation
3333 Susan Street
Costa Mesa CA 92626
US

A4-E5-97 (hex) Gessler GmbH
A4E597 (base 16) Gessler GmbH
Gutenbergring 14
Rodgau 63110
DE

A8-6B-AD (hex) Hon Hai Precision Ind. Co.,Ltd.
A86BAD (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

D8-0F-99 (hex) Hon Hai Precision Ind. Co.,Ltd.
D80F99 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

C8-9C-DC (hex) Elitegroup Computer Systems Co.,Ltd.
C89CDC (base 16) Elitegroup Computer Systems Co.,Ltd.
NO. 239, Sec. 2, Ti Ding Blvd.
Taipei 11493
TW

00-25-11 (hex) Elitegroup Computer Systems Co.,Ltd.
002511 (base 16) Elitegroup Computer Systems Co.,Ltd.
NO.
239, Sec. 2, Ti Ding Blvd.
Taipei Taiwan 11493
TW

44-87-FC (hex) Elitegroup Computer Systems Co.,Ltd.
4487FC (base 16) Elitegroup Computer Systems Co.,Ltd.
NO. 239, Sec. 2, Ti Ding Blvd.
Taipei Taiwan 11493
TW

00-24-65 (hex) Elentec
002465 (base 16) Elentec
401-13 Chunggye-Ri,Dongtan-Myun
Hwasung Kyunggi 445-811

KR

00-08-9F (hex) EFM Networks
00089F (base 16) EFM Networks
403, 4th floor Elegance 1 Bldg.
Sungnam-si Kyunggi-do 463-808
KR

00-1D-82 (hex) GN Netcom A/S
001D82 (base 16) GN Netcom A/S
Lautrupbjerg 7
Ballerup DK - 2750
DK

00-13-17 (hex) GN Netcom A/S
001317 (base 16) GN Netcom A/S
Metalbuen 66
Ballerup Skovlunde DK-2750
DK

00-14-2A (hex) Elitegroup Computer Systems Co.,Ltd.
00142A (base 16) Elitegroup Computer Systems Co.,Ltd.
No.22, Alley 38, Lane 91, Sec. 1,
Taipei 114
TW

00-11-5B (hex) Elitegroup Computer Systems Co.,Ltd.
00115B
(base 16) Elitegroup Computer Systems Co.,Ltd.
No.22, Alley 38, Lane 91, Sec. 1, Nei Hu
Taipei 114
TW

C0-3F-D5 (hex) Elitegroup Computer Systems Co.,Ltd.
C03FD5 (base 16) Elitegroup Computer Systems Co.,Ltd.
No. 239, Sec. 2, Ti-Ding Blvd
Taipei 11493
TW

EC-A8-6B (hex) Elitegroup Computer Systems Co.,Ltd.
ECA86B (base 16) Elitegroup Computer Systems Co.,Ltd.
NO. 239, Sec. 2, Ti Ding Blvd.
Taipei 11493
TW

00-50-FC (hex) Edimax Technology Co. Ltd.
0050FC (base 16) Edimax Technology Co. Ltd.
No. 278, Xinhu 1st Road

Taipei City Neihu Dist 248
TW

00-16-FA (hex) ECI Telecom Ltd.
0016FA (base 16) ECI Telecom Ltd.
30 Hasivim St.
Petah Tikva 49133
US

A0-82-AC (hex) Linear DMS Solutions Sdn. Bhd.
A082AC (base 16) Linear DMS Solutions Sdn. Bhd.
135, Jalan Utara
PENANG Pulau Pinang 11700
MY

A8-6A-C1 (hex) HanbitEDS Co., Ltd.
A86AC1 (base 16) HanbitEDS
Co., Ltd.
44-10, Techno 10-ro, Yuseong-gu
Daejeon Daejeon 34027
KR

D4-63-FE (hex) Arcadyan Corporation
D463FE (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

68-93-61 (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
689361 (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

A0-04-3E (hex) Parker Hannifin Manufacturing Germany GmbH & Co. KG
A0043E (base 16) Parker Hannifin Manufacturing Germany GmbH & Co. KG
Gutenbergstrasse 38
Kaarst Select State 41564
DE

C8-45-29 (hex) IMK Networks Co.,Ltd
C84529 (base 16) IMK Networks Co.,Ltd
201-Ho jungribjunja, 16-3bunji,
Seoul 143-816
KR

00-11-74 (hex) Mojo Networks, Inc.
001174 (base 16) Mojo Networks, Inc.

339 N.Bernardo Ave
Mountain View CA 94043
US

00-19-54 (hex) Leaf Corporation.
001954 (base 16) Leaf
Corporation.
Amuze 1F
Isehara City Kanagawa-Pref. 259-1117
JP

94-66-E7 (hex) WOM Engineering
9466E7 (base 16) WOM Engineering
13F., No. 192, Sec. 2, Zhongxing Rd., Xindian Dist.
New Taipei City Taiwan 231
TW

F8-A1-88 (hex) LED Roadway Lighting
F8A188 (base 16) LED Roadway Lighting
115 Chain Lake Dr.
Halifax NS B3S 1B3
CA

34-BF-90 (hex) Fiberhome Telecommunication Technologies Co.,LTD
34BF90 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan City Hubei Province 430074
CN

CC-B3-F8 (hex) FUJITSU ISOTEC LIMITED
CCB3F8 (base 16) FUJITSU ISOTEC LIMITED
135,Higashinozaki,Hobara-machi,
Date-shi Fukushima 960-0695
JP

E4-A4-71 (hex) Intel Corporate
E4A471 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

10-F0-05 (hex) Intel Corporate
10F005 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim
Kedah 09000
MY

00-BD-82 (hex) Shenzhen YOUHUA Technology Co., Ltd
00BD82 (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

4C-B8-B5 (hex) Shenzhen YOUHUA Technology Co., Ltd
4CB8B5 (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

70-85-C2 (hex) ASRock Incorporation
7085C2 (base 16) ASRock Incorporation
2F., No. 37, Sec. 2, Jhongyang S. Rd., Beitou District,
Taipei 112
TW

94-51-3D (hex) iSmart Alarm, Inc.
94513D (base 16) iSmart Alarm, Inc.
1290 Kifer Road Suite 306
Sunnyvale CA 94086
US

BC-15-AC (hex) Vodafone Italia S.p.A.
BC15AC (base 16) Vodafone Italia S.p.A.
Via Lorenteggio nr. 240
Milan Italy 20147
IT

EC-93-ED (hex) DDoS-Guard
LTD
EC93ED (base 16) DDoS-Guard LTD
goroda Volos, 6, 904
Rostov-on-Don 344010
RU

04-52-C7 (hex) Bose Corporation
0452C7 (base 16) Bose Corporation
The Mountain
Framingham MA 01701-9168
US

F0-27-45 (hex) F-Secure Corporation
F02745 (base 16) F-Secure Corporation
Tammasaarenkatu 7
Helsinki 00181
FI

54-D0-B4 (hex) Xiamen Four-Faith Communication Technology Co.,Ltd
54D0B4 (base 16) Xiamen Four-Faith Communication Technology Co.,Ltd
3rd Floor,No,44,GuanRi Road,Software Park,XiaMen
XiaMen Fujian 361000
CN

00-13-7C (hex) Kaicom co., Ltd.
00137C (base 16) Kaicom co., Ltd.
#109, Gayang Techno Town 1487, Gayang-dong,Kangso-gu
Seoul 157-810
KR

7C-47-7C (hex) IEEE Registration Authority
7C477C (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

F8-77-B8 (hex) Samsung Electronics Co.,Ltd
F877B8 (base 16) Samsung Electronics
Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

F0-D2-F1 (hex) Amazon Technologies Inc.
F0D2F1 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

14-D1-1F (hex) HUAWEI TECHNOLOGIES CO.,LTD
14D11F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

DC-09-4C (hex) HUAWEI TECHNOLOGIES CO.,LTD
DC094C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

1C-67-58 (hex) HUAWEI TECHNOLOGIES CO.,LTD
1C6758 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808

CN

24-BC-F8 (hex) HUAWEI TECHNOLOGIES CO.,LTD
24BCF8 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

DC-EE-06 (hex) HUAWEI
TECHNOLOGIES CO.,LTD
DCEE06 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E8-56-59 (hex) Advanced-Connectek Inc.
E85659 (base 16) Advanced-Connectek Inc.
No. 2,Alley 9, Lane 45, Baoxing Rd., Xiadian Dist.,
New Taipei City 231
TW

30-FC-68 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
30FC68 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

00-8A-96 (hex) Cisco Systems, Inc
008A96 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

BC-60-A7 (hex) Sony Interactive Entertainment Inc.
BC60A7 (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

64-CC-2E (hex) Xiaomi Communications Co Ltd
64CC2E (base 16) Xiaomi Communications Co Ltd
The
Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

88-01-F2 (hex) Vitec System Engineering Inc.
8801F2 (base 16) Vitec System Engineering Inc.

203203 Kita-shinagawa
Shinagawa-ku Tokyo 140-0001
JP

A8-E3-EE (hex) Sony Interactive Entertainment Inc.
A8E3EE (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

00-24-8D (hex) Sony Interactive Entertainment Inc.
00248D (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

00-04-1F (hex) Sony Interactive Entertainment Inc.
00041F (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

20-A9-0E (hex) TCT mobile ltd
20A90E (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

0C-A2-F4 (hex) Chameleon Technology (UK) Limited
0CA2F4
(base 16) Chameleon Technology (UK) Limited
Gardner House, Hornbeam Park Avenue
Hornbeam Park Harrogate HG2 8NA
GB

EC-43-8B (hex) YAPTV
EC438B (base 16) YAPTV
623 GangNamDa-Ro
Seocho-Gu Seoul 06524
KR

18-21-95 (hex) Samsung Electronics Co.,Ltd
182195 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

44-78-3E (hex) Samsung Electronics Co.,Ltd

44783E (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

14-C3-C2 (hex) K.A. Schmersal GmbH & Co. KG
14C3C2 (base 16) K.A. Schmersal GmbH & Co. KG
Möddinghofe 30
Wuppertal NRW 42279
DE

10-78-5B (hex) Actiontec Electronics, Inc
10785B (base 16) Actiontec Electronics, Inc
3301 Olcott St.
Santa Clara CA 95054
US

BC-44-B0 (hex) Elastifile
BC44B0 (base 16) Elastifile
Abba Even 8
Herzlia 4672526
IL

74-BF-B7 (hex) Nusoft Corporation
74BFB7
(base 16) Nusoft Corporation
3F.-1, No. 880, Zhongzheng Rd.,
Zhonghe Dist., New Taipei City Taiwan (R.O.C.) 235-86
TW

50-DA-00 (hex) Hangzhou H3C Technologies Co., Limited
50DA00 (base 16) Hangzhou H3C Technologies Co., Limited
466 Changhe Road, Binjiang District
Hangzhou Zhejiang, P.R.China 310052
CN

F4-ED-5F (hex) SHENZHEN KTC TECHNOLOGY GROUP
F4ED5F (base 16) SHENZHEN KTC TECHNOLOGY GROUP
Wuhe Street
Shenzhen Guangdong 518129
CN

00-E0-E4 (hex) FANUC ROBOTICS NORTH AMERICA, Inc.
00E0E4 (base 16) FANUC ROBOTICS NORTH AMERICA, Inc.
3900 W. HAMLIN RD.
ROCHESTER HILLS MI 48309-3253
US

D0-B5-3D (hex) SEPRO ROBOTIQUE
D0B53D (base 16) SEPRO ROBOTIQUE
ZI Acti-Est Les Ajoncs
LA ROCHE SUR YON F85003
FR

00-D0-EC (hex) NAKAYO Inc
00D0EC (base 16) NAKAYO Inc
Development Support Center 165 Higashiomuro-machi
Maebashi-shi Gunma 379-2105
JP

44-11-02 (hex) EDMI
Europe Ltd
441102 (base 16) EDMI Europe Ltd
The Grainger Suite, Dobson House
Newcastle upon Tyne NE3 3PF
GB

98-0C-A5 (hex) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
980CA5 (base 16) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
No.19, Gaoxin 4th Road, Wuhan East Lake High-tech Zone, Wuhan
Wuhan Hubei 430000
CN

A8-5E-E4 (hex) 12Sided Technology, LLC
A85EE4 (base 16) 12Sided Technology, LLC
1 Penn Plaza, 36th Floor
New York NY 10119
US

24-5E-BE (hex) QNAP Systems, Inc.
245EBE (base 16) QNAP Systems, Inc.
2F., No.22, Zhongxing Rd., Xizhi Dist.
New Taipei City 221
TW

04-04-EA (hex) Valens Semiconductor Ltd.
0404EA (base 16) Valens Semiconductor Ltd.
8 Hanagar Street
Hod Hasharon Hod Hasharon 4501309
IL

80-0D-D7 (hex) Latticework, Inc
800DD7 (base 16) Latticework, Inc
2210 O'Toole Ave, Suite 250
San Jose CA 95131
US

4C-CC-6A
(hex) Micro-Star INTL CO., LTD.
4CCC6A (base 16) Micro-Star INTL CO., LTD.
No.69, Lide St.,
New Taipei City Taiwan 235
TW

30-63-6B (hex) Apple, Inc.
30636B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

70-88-4D (hex) JAPAN RADIO CO., LTD.
70884D (base 16) JAPAN RADIO CO., LTD.
5-1-1 SHIMORENJYAKU,
MITAKA-SHI, TOKYO 181-8510
JP

A4-F1-E8 (hex) Apple, Inc.
A4F1E8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

54-67-51 (hex) Compal Broadband Networks, Inc.
546751 (base 16) Compal Broadband Networks, Inc.
13F., No.1, Taiyuan 1st St.
Zhubei City Hsinchu County 30265
TW

24-0B-0A (hex) Palo Alto Networks
240B0A (base 16) Palo Alto Networks
4401 Great America Parkway
Santa Clara CA 95054
US

D0-99-D5 (hex) Alcatel-Lucent
D099D5 (base 16) Alcatel-Lucent
777 East Middlefield Road
Mountain View CA
94043
US

00-24-7D (hex) Nokia Danmark A/S
00247D (base 16) Nokia Danmark A/S
Frederikskaj

Copenhagen V DK-1790
DK

14-BB-6E (hex) Samsung Electronics Co.,Ltd
14BB6E (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

2C-CC-15 (hex) Nokia Corporation
2CCC15 (base 16) Nokia Corporation
Joensuunkatu 7
Salo Varsinais-Suomi 24101
FI

D8-FB-5E (hex) ASKEY COMPUTER CORP
D8FB5E (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585
TW

00-18-C5 (hex) Nokia Danmark A/S
0018C5 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V 1790
DK

F4-F5-A5 (hex) Nokia Corporation
F4F5A5 (base 16) Nokia Corporation
Joensuunkatu 7
Salo 24101
FI

EC-9B-5B (hex) Nokia Corporation
EC9B5B (base 16) Nokia Corporation
Joensuunkatu 7
Salo Varsinais-Suomi 24101
FI

0C-BF-15
(hex) Genetec Inc.
0CBF15 (base 16) Genetec Inc.
2280 boul Alfred-Nobel
St. Laurent Quebec H4S 2A4
CA

00-23-26 (hex) FUJITSU LIMITED
002326 (base 16) FUJITSU LIMITED

403, Kosugi-cho 1-chome, Nakahara-ku
Kawasaki Kanagawa 211-0063
JP

00-22-65 (hex) Nokia Danmark A/S
002265 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

18-86-AC (hex) Nokia Danmark A/S
1886AC (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790V
DK

00-1F-5C (hex) Nokia Danmark A/S
001F5C (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790V
DK

00-1F-00 (hex) Nokia Danmark A/S
001F00 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790V
DK

00-26-68 (hex) Nokia Danmark A/S
002668 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-25-47 (hex) Nokia Danmark A/S
002547 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen
V DK-1790
DK

00-16-4E (hex) Nokia Danmark A/S
00164E (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

E4-98-D1 (hex) Microsoft Mobile Oy

E498D1 (base 16) Microsoft Mobile Oy
Keilalahdentie 4
ESPOO 02150
FI

6C-27-79 (hex) Microsoft Mobile Oy
6C2779 (base 16) Microsoft Mobile Oy
Keilalahdentie 4
ESPOO 02150
FI

00-0D-4B (hex) Roku, Inc.
000D4B (base 16) Roku, Inc.
399 Sherman Ave. #12
Palo Alto CA 94306
US

F8-80-96 (hex) Elsys Equipamentos Eletrônicos Ltda
F88096 (base 16) Elsys Equipamentos Eletrônicos Ltda
Rod. Visconde de Porto Seguro, n.º 2.660, Sitio Recreio dos Cafezais
Valinhos SP 13278327
BR

A8-11-FC (hex) ARRIS Group, Inc.
A811FC (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1D-AA (hex) DrayTek Corp.
001DAA (base 16) DrayTek Corp.
No. 26, Fu-Shing
Road
Hsin-Chu 303
TW

18-67-B0 (hex) Samsung Electronics Co.,Ltd
1867B0 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

00-40-FB (hex) CASCADE COMMUNICATIONS
0040FB (base 16) CASCADE COMMUNICATIONS
PRODUCTION QUALITY ENGINEER
WESTFORD MA 01886
US

00-CF-1C (hex) Communication Machinery Corporation
00CF1C (base 16) Communication Machinery Corporation
1226 ANACAPA
SANTA BARBARA CA 93101
US

D0-54-2D (hex) Cambridge Industries(Group) Co.,Ltd.
D0542D (base 16) Cambridge Industries(Group) Co.,Ltd.
22 Floor,Qilai Tower;889 Yishan Road
Shanghai 200233
CN

74-4A-A4 (hex) zte corporation
744AA4 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

28-CC-01 (hex) Samsung Electronics Co.,Ltd
28CC01 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi
Gyeongbuk 730-350
KR

6C-F3-73 (hex) Samsung Electronics Co.,Ltd
6CF373 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

9C-3A-AF (hex) Samsung Electronics Co.,Ltd
9C3AAF (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

78-1F-DB (hex) Samsung Electronics Co.,Ltd
781FDB (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

18-3F-47 (hex) Samsung Electronics Co.,Ltd
183F47 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-00-1D (hex) Cabletron Systems, Inc.
00001D (base 16) Cabletron Systems, Inc.
35 INDUSTRIAL WAY
ROCHESTER NH 03867
US

4C-A5-6D (hex) Samsung Electronics Co.,Ltd
4CA56D (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B8-6C-E8 (hex) Samsung Electronics Co.,Ltd
B86CE8
(base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

0C-B3-19 (hex) Samsung Electronics Co.,Ltd
0CB319 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

50-A4-C8 (hex) Samsung Electronics Co.,Ltd
50A4C8 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

6C-83-36 (hex) Samsung Electronics Co.,Ltd
6C8336 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-26-B6 (hex) ASKEY COMPUTER CORP
0026B6 (base 16) ASKEY COMPUTER CORP
10F,NO.119,CHIENKANG RD,CHUNG-HO,TAIPEI,
TAIWAN TAIPEI 235
TW

DC-D8-7C (hex) Beijing Jingdong Century Trading Co., LTD.
DCD87C (base 16) Beijing Jingdong Century Trading Co., LTD.
28F,Building A Zhaolin Plaza,NO.19,Ronghua Middle road,BDA Beijing
Beijing 100176

CN

C4-DA-7D (hex) Ivium Technologies B.V.
C4DA7D
(base 16) Ivium Technologies B.V.
De Zaale 11
Eindhoven Noord Brabant 5612 AJ
NL

00-1B-A9 (hex) Brother industries, LTD.
001BA9 (base 16) Brother industries, LTD.
Printing & Solutions Company, Development Management Dept.
Nagoya Aichi 467-8561
JP

30-A2-20 (hex) ARG Telecom
30A220 (base 16) ARG Telecom
No.69, W. Lavasani St. ,
Tehran Tehran 1936938194
IR

E0-3E-44 (hex) Broadcom
E03E44 (base 16) Broadcom
190 Mathilda Place
Sunnyvale CA 94086
US

00-25-57 (hex) BlackBerry RTS
002557 (base 16) BlackBerry RTS
440 Phillip Street
Waterloo Ontario N2L 5W9
CA

00-1C-CC (hex) BlackBerry RTS
001CCC (base 16) BlackBerry RTS
305 Phillip Street
Waterloo Ontario N2L 3W8
CA

00-30-0A (hex) Aztech Electronics Pte Ltd
00300A (base 16) Aztech Electronics Pte Ltd
31 UBI ROAD 1
singapore 408694
SG

00-1F-3F (hex) AVM GmbH
001F3F (base 16) AVM GmbH
Alt-Moabit

95
Berlin 10559
DE

24-65-11 (hex) AVM GmbH
246511 (base 16) AVM GmbH
Alt-Moabit 95
Berlin 10559
DE

00-0B-6A (hex) Asiarock Technology Limited
000B6A (base 16) Asiarock Technology Limited
P.O. Box957, Offshore Incorporations Cen
Road Town Tortola 12345
VG

00-1B-9E (hex) ASKEY COMPUTER CORP
001B9E (base 16) ASKEY COMPUTER CORP
10F,NO.119,CHIENKANG RD,
CHUNG-HO,TPIPEI 235
TW

E0-CA-94 (hex) ASKEY COMPUTER CORP
E0CA94 (base 16) ASKEY COMPUTER CORP
10F,NO.119,CHIENKANG RD,CHUNG-HO,TAIPEI,
TAIWAN TAIPEI 235
TW

C4-04-15 (hex) NETGEAR
C40415 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

E8-FC-AF (hex) NETGEAR
E8FCAF (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

84-1B-5E (hex) NETGEAR
841B5E (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

2C-B0-5D (hex) NETGEAR
2CB05D

(base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

A0-21-B7 (hex) NETGEAR
A021B7 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

14-5B-D1 (hex) ARRIS Group, Inc.
145BD1 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

6C-C1-D2 (hex) ARRIS Group, Inc.
6CC1D2 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

74-F6-12 (hex) ARRIS Group, Inc.
74F612 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-24-95 (hex) ARRIS Group, Inc.
002495 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-24-A0 (hex) ARRIS Group, Inc.
0024A0 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

C0-FF-D4 (hex) NETGEAR
C0FFD4 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

6C-B0-CE

(hex) NETGEAR
6CB0CE (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

00-8E-F2 (hex) NETGEAR
008EF2 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

9C-D3-6D (hex) NETGEAR
9CD36D (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

00-26-4D (hex) Arcadyan Technology Corporation
00264D (base 16) Arcadyan Technology Corporation
4F., No. 9 , Park Avenue II ,
Hsinchu Taiwan 300
TW

84-9C-A6 (hex) Arcadyan Technology Corporation
849CA6 (base 16) Arcadyan Technology Corporation
4F, No. 9, Park Avenue II ,
Hsinchu 300
TW

00-24-B2 (hex) NETGEAR
0024B2 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

00-1B-2F (hex) NETGEAR
001B2F (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

00-1F-33 (hex) NETGEAR
001F33 (base 16) NETGEAR
350 East Plumeria Drive
San Jose
CA 95134
US

00-1E-45 (hex) Sony Corporation
001E45 (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

00-1C-A4 (hex) Sony Corporation
001CA4 (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

00-1A-75 (hex) Sony Corporation
001A75 (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

78-84-3C (hex) Sony Corporation
78843C (base 16) Sony Corporation
Gotenyama Tec,5-1-12,
Shinagawa-ku Tokyo 141-0001
JP

00-23-F1 (hex) Sony Corporation
0023F1 (base 16) Sony Corporation
4-12-3 Higashi – Shinagawa
Shinagawa-ku Tokyo 140-0002
JP

6C-FA-A7 (hex) AMPAK Technology, Inc.
6CFAA7 (base 16) AMPAK Technology, Inc.
No.1,Jen Ai Road
Hsinchu 30352
TW

00-13-A9 (hex) Sony Corporation
0013A9 (base 16) Sony Corporation
Gotenyama Tec, 5-1-2 Kitashinagawa
Tokyo 141-0001
JP

00-0A-D9 (hex) Sony
Corporation
000AD9 (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075

JP

00-0E-07 (hex) Sony Corporation
000E07 (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

00-08-0E (hex) ARRIS Group, Inc.
00080E (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-90-9C (hex) ARRIS Group, Inc.
00909C (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-12-25 (hex) ARRIS Group, Inc.
001225 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-20-40 (hex) ARRIS Group, Inc.
002040 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

3C-75-4A (hex) ARRIS Group, Inc.
3C754A (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

E4-83-99 (hex) ARRIS Group, Inc.
E48399 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San
Diego CA 92121
US

00-21-43 (hex) ARRIS Group, Inc.
002143 (base 16) ARRIS Group, Inc.
6450 Sequence Drive

San Diego CA 92121
US

38-6B-BB (hex) ARRIS Group, Inc.
386BBB (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

E8-6D-52 (hex) ARRIS Group, Inc.
E86D52 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-15-CF (hex) ARRIS Group, Inc.
0015CF (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1E-46 (hex) ARRIS Group, Inc.
001E46 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-18-A4 (hex) ARRIS Group, Inc.
0018A4 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-18-C0 (hex) ARRIS Group, Inc.
0018C0 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

1C-14-48 (hex) ARRIS Group, Inc.
1C1448
(base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-17-84 (hex) ARRIS Group, Inc.
001784 (base 16) ARRIS Group, Inc.

6450 Sequence Drive
San Diego CA 92121
US

00-23-74 (hex) ARRIS Group, Inc.
002374 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1C-11 (hex) ARRIS Group, Inc.
001C11 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

94-CE-2C (hex) Sony Corporation
94CE2C (base 16) Sony Corporation
4-12-3 Higashi – Shinagawa
Shinagawa-ku Tokyo 140-0002
JP

AC-E0-10 (hex) Liteon Technology Corporation
ACE010 (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road, ChungHo
New Taipei City Taiwan 23585
TW

74-75-48 (hex) Amazon Technologies Inc.
747548 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

00-00-B1 (hex) Alpha Micro
0000B1 (base
16) Alpha Micro
3501 SUNFLOWER
SANTA ANA CA 92704
US

00-18-02 (hex) Alpha Networks Inc.
001802 (base 16) Alpha Networks Inc.
No.8 Li-shing Seventh Road,Science-based Industrial Park
Hsinchu 300
TW

54-27-1E (hex) AzureWave Technology Inc.

54271E (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City 231
TW

90-0B-C1 (hex) Sprocomm Technologies CO.,Ltd
900BC1 (base 16) Sprocomm Technologies CO.,Ltd
5D-506 F1.6 Block,Tianfa Building,Tianan Chegongmiao Industrial Park,Futian Dist,Shenzhen China
Shenzhen Guangdong 518000
CN

0C-6A-E6 (hex) Stanley Security Solutions
0C6AE6 (base 16) Stanley Security Solutions
6161 East 75th Street
Indianapolis IN 46250
US

54-E4-BD (hex) FN-LINK TECHNOLOGY LIMITED
54E4BD (base 16) FN-LINK TECHNOLOGY LIMITED
5th Floor, A Building, Haoye Logistics Park, Shugang Channel, Bao'an District,
SHENZHEN GUANGDONG 518000
CN

54-14-FD
(hex) Orbbec 3D Technology International
5414FD (base 16) Orbbec 3D Technology International
950 Stephenson Hwy Suite 208
Troy MI 48083
US

48-5D-60 (hex) AzureWave Technology Inc.
485D60 (base 16) AzureWave Technology Inc.
8F ., No.94, Baozhong Rd.
Xindian City Taipei County 231
TW

DC-85-DE (hex) AzureWave Technology Inc.
DC85DE (base 16) AzureWave Technology Inc.
8F ., No.94, Baozhong RD, Sindian,
New Taipei City 231
TW

B0-EE-45 (hex) AzureWave Technology Inc.
B0EE45 (base 16) AzureWave Technology Inc.
8F ., No.94, Baozhong Rd. , Xindian Dist.,
New Taipei City 231
US

FC-0F-E6 (hex) Sony Interactive Entertainment Inc.
FC0FE6 (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

24-FD-52 (hex) Liteon Technology Corporation
24FD52 (base 16) Liteon Technology Corporation
4F,90,Chien 1 Road,ChungHo
New
Taipei City Taipei 23585
TW

2C-D0-5A (hex) Liteon Technology Corporation
2CD05A (base 16) Liteon Technology Corporation
4F,90,Chien 1 Road,ChungHo
New Taipei City Taipei 23585
TW

74-E5-43 (hex) Liteon Technology Corporation
74E543 (base 16) Liteon Technology Corporation
4F,90,Chien 1 Road,ChungHo
New Taipei City Taipei 23585
TW

00-1C-A8 (hex) AirTies Wireless Networks
001CA8 (base 16) AirTies Wireless Networks
Gulbahar Mahallesi, Avni Diligil Sokak
ISTANBUL ISTANBUL 34394
TR

00-23-8E (hex) ADB Broadband Italia
00238E (base 16) ADB Broadband Italia
VIALE SARCA 222
MILANO 20126
IT

00-1D-8B (hex) ADB Broadband Italia
001D8B (base 16) ADB Broadband Italia
VIALE SARCA 222
MILANO 20126
IT

00-13-C8 (hex) ADB Broadband Italia
0013C8 (base 16) ADB Broadband Italia
VIALE SARCA 222
MILANO 20126
IT

74-DE-2B (hex) Liteon Technology Corporation
74DE2B
(base 16) Liteon Technology Corporation
4F,90,Chien 1 Road,ChungHo,Taipei Hsien,Taiwan,
TaiPei TaiWan 23585
TW

00-22-5F (hex) Liteon Technology Corporation
00225F (base 16) Liteon Technology Corporation
4F,90,Chien 1 Road,ChungHo,Taipei Hsien,Taiwan,
TaiPei TaiWan 23585
TW

5C-93-A2 (hex) Liteon Technology Corporation
5C93A2 (base 16) Liteon Technology Corporation
4F,90,Chien 1 Road, ChungHo, TaiPei Hsien
TaiPei TaiWan 23585
TW

DC-0B-1A (hex) ADB Broadband Italia
DC0B1A (base 16) ADB Broadband Italia
via Sarca 222
Milano 20126
IT

84-26-15 (hex) ADB Broadband Italia
842615 (base 16) ADB Broadband Italia
VIALE SARCA 336
MILANO 20126
IT

F0-84-2F (hex) ADB Broadband Italia
F0842F (base 16) ADB Broadband Italia
VIALE SARCA 336
MILANO 20126
IT

28-C2-DD (hex) AzureWave Technology Inc.
28C2DD (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong
Rd.,
New Taipei City Taiwan 231
TW

80-A5-89 (hex) AzureWave Technology Inc.
80A589 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.,

New Taipei City Taiwan 231
TW

C4-09-38 (hex) FUJIAN STAR-NET COMMUNICATION CO.,LTD
C40938 (base 16) FUJIAN STAR-NET COMMUNICATION CO.,LTD
19-22# Building,,Star-net Science Plaza
Fuzhou Fujian 350002
CN

74-C6-3B (hex) AzureWave Technology Inc.
74C63B (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

AC-E5-F0 (hex) Doppler Labs
ACE5F0 (base 16) Doppler Labs
611 Broadway Suite 523
New York NY 10012
US

00-1C-50 (hex) TCL Technoly Electronics (Huizhou) Co., Ltd.
001C50 (base 16) TCL Technoly Electronics (Huizhou) Co., Ltd.
10/F, Block A , TCL Tower
Shenzhen Guangdong 518057
CN

00-AA-02 (hex) Intel Corporation
00AA02 (base 16) Intel Corporation
445
piscataway NJ
08554
US

7C-7A-91 (hex) Intel Corporate
7C7A91 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

AC-7B-A1 (hex) Intel Corporate
AC7BA1 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

6C-29-95 (hex) Intel Corporate
6C2995 (base 16) Intel Corporate

Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

98-4F-EE (hex) Intel Corporate
984FEE (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

8C-70-5A (hex) Intel Corporate
8C705A (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

60-67-20 (hex) Intel Corporate
606720 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

FC-F8-AE (hex) Intel Corporate
FCF8AE (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

60-36-DD (hex) Intel Corporate
6036DD (base
16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-1E-65 (hex) Intel Corporate
001E65 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-1E-67 (hex) Intel Corporate
001E67 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-22-FA (hex) Intel Corporate

0022FA (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-15-00 (hex) Intel Corporate
001500 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

A0-88-B4 (hex) Intel Corporate
A088B4 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

64-80-99 (hex) Intel Corporate
648099 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

D0-7E-35 (hex) Intel Corporate
D07E35 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim
Kedah 09000
MY

E8-2A-EA (hex) Intel Corporate
E82AEA (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

60-57-18 (hex) Intel Corporate
605718 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C4-D9-87 (hex) Intel Corporate
C4D987 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

10-0B-A9 (hex) Intel Corporate
100BA9 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-27-0E (hex) Intel Corporate
00270E (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

B4-E1-C4 (hex) Microsoft Mobile Oy
B4E1C4 (base 16) Microsoft Mobile Oy
Keilalahdentie 4
Espoo 02150
FI

E0-75-7D (hex) Motorola Mobility LLC, a Lenovo Company
E0757D (base 16) Motorola Mobility LLC, a Lenovo Company
600 North US Highway 45
Libertyville IL 60048
US

34-BB-26
(hex) Motorola Mobility LLC, a Lenovo Company
34BB26 (base 16) Motorola Mobility LLC, a Lenovo Company
600 North US Highway 45
Libertyville IL 60048
US

80-6C-1B (hex) Motorola Mobility LLC, a Lenovo Company
806C1B (base 16) Motorola Mobility LLC, a Lenovo Company
222 Merchandise Mart Plaza, Suite 1800
Chicago IL 60654
US

00-D0-9E (hex) 2Wire Inc
00D09E (base 16) 2Wire Inc
694 TASMAN DRIVE
MILPITAS CA 95035
US

00-19-E4 (hex) 2Wire Inc
0019E4 (base 16) 2Wire Inc
1704 Automation Parkway
San Jose CA 94538
US

00-1A-C4 (hex) 2Wire Inc
001AC4 (base 16) 2Wire Inc
1704 Automation Parkway
San Jose CA 94538
US

00-1B-5B (hex) 2Wire Inc
001B5B (base 16) 2Wire Inc
1704 Automation Parkway
San Jose CA 95131
US

00-1E-C7 (hex) 2Wire Inc
001EC7 (base 16) 2Wire Inc
1704 Automation Prkwy
San Jose 95131
US

00-26-50 (hex) 2Wire Inc
002650
(base 16) 2Wire Inc
1764 Automation Parkway
San Jose CA 95131
US

00-16-EB (hex) Intel Corporate
0016EB (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-18-DE (hex) Intel Corporate
0018DE (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

5C-E0-C5 (hex) Intel Corporate
5CE0C5 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

58-A8-39 (hex) Intel Corporate
58A839 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000

MY

7C-5C-F8 (hex) Intel Corporate
7C5CF8 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

4C-17-EB (hex) Sagemcom Broadband SAS
4C17EB (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
Rueil Malmaison Cedex Hauts de Seine 92848
FR

CC-33-BB (hex) Sagemcom Broadband SAS
CC33BB (base 16) Sagemcom
Broadband SAS
250 ROUTE DE L'EMPEREUR
RUEIL MALMAISON CEDEX Choisissez l'état / la province 92848
FR

3C-A3-48 (hex) vivo Mobile Communication Co., Ltd.
3CA348 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

E4-5A-A2 (hex) vivo Mobile Communication Co., Ltd.
E45AA2 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

B0-D5-CC (hex) Texas Instruments
B0D5CC (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

38-29-DD (hex) ONvocal Inc
3829DD (base 16) ONvocal Inc
104 Otis Street, Ste 28
Northborough MA 01532
US

80-0A-80 (hex) IEEE Registration Authority
800A80 (base 16) IEEE Registration Authority
445 Hoes Lane

Piscataway NJ 08554
US

DC-6D-CD (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
DC6DCD (base 16) GUANGDONG
OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

00-23-51 (hex) 2Wire Inc
002351 (base 16) 2Wire Inc
1764 Automation Parkway
San Jose CA 95131
US

3C-EA-4F (hex) 2Wire Inc
3CEA4F (base 16) 2Wire Inc
1764 Automation Parkway
San Jose 95131
US

DC-7F-A4 (hex) 2Wire Inc
DC7FA4 (base 16) 2Wire Inc
1764 Automation Parkway
San Jose 95131
US

C4-28-2D (hex) Embedded Intellect Pty Ltd
C4282D (base 16) Embedded Intellect Pty Ltd
Level 32, 101 Miller Street
North Sydney NSW 2060
AU

34-84-46 (hex) Ericsson AB
348446 (base 16) Ericsson AB
Torshamnsgatan 36
Stockholm SE-164 80
SE

04-4E-06 (hex) Ericsson AB
044E06 (base 16) Ericsson AB
Torshamnsgatan 36
Stockholm SE-164 80
SE

CC-3B-3E (hex) Lester Electrical
CC3B3E (base 16) Lester Electrical

625 W A Street
Lincoln NE 68522
US

20-82-C0
(hex) Xiaomi Communications Co Ltd
2082C0 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

00-17-3F (hex) Belkin International Inc.
00173F (base 16) Belkin International Inc.
501 West Walnut Street
Compton CA 90220-5221
US

00-1C-DF (hex) Belkin International Inc.
001CDF (base 16) Belkin International Inc.
12045 E. Waterfront Drive
Playa Vista CA 90094
US

20-55-32 (hex) Gotech International Technology Limited
205532 (base 16) Gotech International Technology Limited
Unit 2506, 25/F, Prosperity Place,6 Shing Yip Street, Kwun Tong, Kowloon
Hong Kong 00000
CN

2C-FF-65 (hex) Oki Electric Industry Co., Ltd.
2CFF65 (base 16) Oki Electric Industry Co., Ltd.
1-7-12 Toranomon
Tokyo 105-8460
JP

2C-27-D7 (hex) Hewlett Packard
2C27D7 (base 16) Hewlett Packard
11445 Compaq Center
Drive
Houston 77070
US

98-4B-E1 (hex) Hewlett Packard
984BE1 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

C0-56-27 (hex) Belkin International Inc.
C05627 (base 16) Belkin International Inc.
12045 E. Waterfront Drive
Playa Vista CA 90094
US

D8-6C-E9 (hex) Sagemcom Broadband SAS
D86CE9 (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
RUEIL MALMAISON CEDEX Hauts de Seine 92848
FR

E8-F1-B0 (hex) Sagemcom Broadband SAS
E8F1B0 (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
RUEIL MALMAISON CEDEX Hauts de Seine 92848
FR

00-15-E9 (hex) D-Link Corporation
0015E9 (base 16) D-Link Corporation
2F, No.233-2, Pao-Chiao Road
Hsin-Tien, Taipei 231
TW

00-1B-11 (hex) D-Link Corporation
001B11 (base 16) D-Link Corporation
NO.289, Sinhu 3rd Rd.,
Neihu District, Taipei City 114
TW

00-26-5A (hex) D-Link Corporation
00265A
(base 16) D-Link Corporation
No.289, Sinhu 3rd Rd.,
Neihu District 114
TW

5C-6B-32 (hex) Texas Instruments
5C6B32 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

84-DD-20 (hex) Texas Instruments
84DD20 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

00-17-E5 (hex) Texas Instruments
0017E5 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

00-17-EC (hex) Texas Instruments
0017EC (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

00-17-E7 (hex) Texas Instruments
0017E7 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

00-17-E9 (hex) Texas Instruments
0017E9 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

1C-BA-8C (hex) Texas Instruments
1CBA8C (base 16) Texas Instruments
12500
TI Boulevard, MS 8723
Dallas TX 75243
US

58-46-E1 (hex) Baxter International Inc
5846E1 (base 16) Baxter International Inc
One Baxter Parkway
Deerfield IL 60015
US

00-18-31 (hex) Texas Instruments
001831 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

24-FD-5B (hex) SmartThings, Inc.
24FD5B (base 16) SmartThings, Inc.
456 University Avenue
Palo Alto CA 94301

US

28-76-CD (hex) Funshion Online Technologies Co.,Ltd
2876CD (base 16) Funshion Online Technologies Co.,Ltd
Tower B 1201, Jinqiu International Building, No.6, Zhichun Road, Haidian District
Beijing 100088
CN

00-1A-11 (hex) Google, Inc.
001A11 (base 16) Google, Inc.
1600 Amphitheater Parkway
Mountain View CA 94043
US

28-BC-56 (hex) EMAC, Inc.
28BC56 (base 16) EMAC, Inc.
2390 EMAC Way
Carbondale IL 62902
US

C8-BE-19 (hex) D-Link International
C8BE19
(base 16) D-Link International
1 International Business Park, #03-12, The Synergy
SINGAPORE 609917
SG

00-29-26 (hex) Applied Optoelectronics, Inc Taiwan Branch
002926 (base 16) Applied Optoelectronics, Inc Taiwan Branch
No.18,Gong 4th Rd
New Taipei City Linkou District 24452
TW

48-DB-50 (hex) HUAWEI TECHNOLOGIES CO.,LTD
48DB50 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan Guangdong 523808
CN

A4-BA-76 (hex) HUAWEI TECHNOLOGIES CO.,LTD
A4BA76 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan Guangdong 523808
CN

00-50-C2 (hex) IEEE Registration Authority
0050C2 (base 16) IEEE Registration Authority
445 Hoes Lane

Piscataway NJ 08554
US

A0-F8-95 (hex) Shenzhen TINNO Mobile Technology Corp.
A0F895 (base 16) Shenzhen TINNO Mobile Technology Corp.
Building,
No.33, Xiandong Rd, Xili
Nanshan District, Shenzhen PRC 518053
CN

00-78-CD (hex) Ignition Design Labs
0078CD (base 16) Ignition Design Labs
1550 Technology Drive
San Jose 95110
US

44-00-10 (hex) Apple, Inc.
440010 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-56-CD (hex) Apple, Inc.
0056CD (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-CD-FE (hex) Apple, Inc.
00CDFE (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

24-BA-13 (hex) RISO KAGAKU CORPORATION
24BA13 (base 16) RISO KAGAKU CORPORATION
2-8-1 Gakuen-minami
Thukuba-shi Ibaraki 305-0818
JP

9C-34-26 (hex) ARRIS Group, Inc.
9C3426 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

2C-6E-85 (hex) Intel Corporate
2C6E85 (base 16) Intel Corporate

Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C8-47-8C
(hex) Beken Corporation
C8478C (base 16) Beken Corporation
Building 41, Capital of Tech Leaders, 1387 Zhangdong Road, Zhangjiang High-Tech Park, Pudong New District
Shanghai 201203
CN

E4-98-D6 (hex) Apple, Inc.
E498D6 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-60-37 (hex) NXP Semiconductors
006037 (base 16) NXP Semiconductors
High Tech Campus 32, Office 1.21
SAF AD 13456
NL

DC-C0-EB (hex) ASSA ABLOY CÔTE PICARDE
DCC0EB (base 16) ASSA ABLOY CÔTE PICARDE
rue Alexandre Fichet
Oust-Marest 80460
FR

9C-EF-D5 (hex) Panda Wireless, Inc.
9CEFD5 (base 16) Panda Wireless, Inc.
15559 Union Ave, Suite 300
Los Gatos CA 95032
US

70-CA-4D (hex) Shenzhen lnovance Technology Co.,Ltd.
70CA4D (base 16) Shenzhen lnovance Technology Co.,Ltd.
LiuXian 2 Road
Shenzhen Guangdong 518000
CN

00-1D-D1 (hex) ARRIS Group, Inc.
001DD1 (base 16) ARRIS
Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1D-CF (hex) ARRIS Group, Inc.
001DCF (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1D-D5 (hex) ARRIS Group, Inc.
001DD5 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1D-D4 (hex) ARRIS Group, Inc.
001DD4 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

CC-A4-62 (hex) ARRIS Group, Inc.
CCA462 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

14-CF-E2 (hex) ARRIS Group, Inc.
14CFE2 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

44-E1-37 (hex) ARRIS Group, Inc.
44E137 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-00-C5 (hex) ARRIS Group, Inc.
0000C5 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

E4-FA-FD
(hex) Intel Corporate
E4FAFD (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

94-65-9C (hex) Intel Corporate
94659C (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

48-45-20 (hex) Intel Corporate
484520 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C8-0E-77 (hex) Le Shi Zhi Xin Electronic Technology (Tianjin) Limited
C80E77 (base 16) Le Shi Zhi Xin Electronic Technology (Tianjin) Limited
No.201-427,2F,Tthe Animation Building B1 District£¬No. 126£¬Tianjin eco-city animation Road
Tianjin 300467
CN

90-49-FA (hex) Intel Corporate
9049FA (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

BC-0F-64 (hex) Intel Corporate
BC0F64 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

64-55-B1 (hex) ARRIS Group, Inc.
6455B1 (base
16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-02-B3 (hex) Intel Corporation
0002B3 (base 16) Intel Corporation
M/S: JF3-420
Hillsboro OR 97124
US

00-03-47 (hex) Intel Corporation
000347 (base 16) Intel Corporation
M/S: JF3-420
Hillsboro OR 97124

US

00-0E-0C (hex) Intel Corporation
000E0C (base 16) Intel Corporation
2111 NE 25th Avenue
Hillsboro OR 97124
US

00-13-20 (hex) Intel Corporate
001320 (base 16) Intel Corporate
Lot 8, Jalan Hi-tech 2/3
Kulim Kedah 09000
MY

00-13-21 (hex) Hewlett Packard
001321 (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

00-08-02 (hex) Hewlett Packard
000802 (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

00-02-A5 (hex) Hewlett Packard
0002A5 (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

6C-C2-17
(hex) Hewlett Packard
6CC217 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

14-58-D0 (hex) Hewlett Packard
1458D0 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

D8-D3-85 (hex) Hewlett Packard
D8D385 (base 16) Hewlett Packard
11445 Compaq Center Drive

Houston 77070
US

18-A9-05 (hex) Hewlett Packard
18A905 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

00-1B-78 (hex) Hewlett Packard
001B78 (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

00-18-71 (hex) Hewlett Packard
001871 (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

00-0E-7F (hex) Hewlett Packard
000E7F (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

00-11-85 (hex) Hewlett Packard
001185 (base 16) Hewlett Packard
20555 State
Highway 249
Houston TX 77070
US

00-12-79 (hex) Hewlett Packard
001279 (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

EC-9A-74 (hex) Hewlett Packard
EC9A74 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

10-60-4B (hex) Hewlett Packard
10604B (base 16) Hewlett Packard

11445 Compaq Center Drive
Houston 77070
US

C8-CB-B8 (hex) Hewlett Packard
C8CBB8 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

84-34-97 (hex) Hewlett Packard
843497 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

10-6F-3F (hex) BUFFALO.INC
106F3F (base 16) BUFFALO.INC
AKAMONDORI Bldg., 30-20,Ohsu 3-chome
Naka-ku,Nagoya Aichi Pref. 460-8315
JP

B0-C7-45 (hex) BUFFALO.INC
B0C745 (base 16) BUFFALO.INC
AKAMONDORI Bldg.,30-20,Ohsu 3-chome
Naka-ku,Nagoya Aichi Pref 460-8315
JP

5C-8A-38
(hex) Hewlett Packard
5C8A38 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

2C-59-E5 (hex) Hewlett Packard
2C59E5 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

D8-60-B0 (hex) bioMérieux Italia S.p.A.
D860B0 (base 16) bioMérieux Italia S.p.A.
Via di Campigliano, 58
Bagno a Ripoli Firenze 50012
IT

D8-FC-38 (hex) Giantec Semiconductor Inc

D8FC38 (base 16) Giantec Semiconductor Inc
No12, Lane647, Songtao Rd, Zhangjiang Hi-Tech Park
Shanghai Shanghai 201203
CN

AC-2A-0C (hex) CSR ZHUZHOU INSTITUTE CO.,LTD.
AC2A0C (base 16) CSR ZHUZHOU INSTITUTE CO.,LTD.
Times Ave.,Zhuzhou,hunan,China
zhuzhou Hunan 412001
CN

2C-67-98 (hex) InTalTech Ltd.
2C6798 (base 16) InTalTech Ltd.
Shlomo Ben David 5
Rishon LeZion 7536215
IL

F8-DB-7F (hex) HTC Corporation
F8DB7F (base 16) HTC Corporation
No.23
Xinghua Road
Taoyuan County 330
TW

64-A7-69 (hex) HTC Corporation
64A769 (base 16) HTC Corporation
No.23 Xinghua Road
Taoyuan County 330
TW

E8-99-C4 (hex) HTC Corporation
E899C4 (base 16) HTC Corporation
No. 23, Xinghua Rd., Taoyuan City
Taoyuan County Taiwan 330
TW

BC-CF-CC (hex) HTC Corporation
BCCFCC (base 16) HTC Corporation
No. 23, Xinghua Rd., Taoyuan City
Taoyuan County 330
TW

28-56-5A (hex) Hon Hai Precision Ind. Co.,Ltd.
28565A (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

00-19-E0 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
0019E0 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
South Building, No.5 Keyuan Road
Nanshan Shenzhen 518057
CN

00-25-86 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
002586 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 7, Second Part, Honghualing Industrial Zone
Shenzhen
Guangdong 518057
CN

54-E6-FC (hex) TP-LINK TECHNOLOGIES CO.,LTD.
54E6FC (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
1-6F, Building 2, Pingshandayuan Industrial, South Zone,
Shenzhen Guangdong 518000
CN

74-EA-3A (hex) TP-LINK TECHNOLOGIES CO.,LTD.
74EA3A (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 7, Second Part, Honghualing Industrial Zone
Shenzhen Guangdong 518000
CN

6C-B5-6B (hex) HUMAX Co., Ltd.
6CB56B (base 16) HUMAX Co., Ltd.
HUMAX Village,216,Hwangsaeul-ro,Bundang-gu
Seongnam-si Gyeonggi-do 463-875
KR

D8-1F-CC (hex) Brocade Communications Systems LLC
D81FCC (base 16) Brocade Communications Systems LLC
1320 Ridder Park Dr
San Jose CA 95131
US

00-23-4D (hex) Hon Hai Precision Ind. Co.,Ltd.
00234D (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

00-25-56 (hex) Hon Hai Precision Ind. Co.,Ltd.
002556
(base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332

CN

60-18-88 (hex) zte corporation
601888 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

84-77-78 (hex) Cochlear Limited
847778 (base 16) Cochlear Limited
1 University Avenue
Sydney New South Wales 2109
AU

88-7F-03 (hex) Comper Technology Investment Limited
887F03 (base 16) Comper Technology Investment Limited
Room 710, Wangjing SOHO Tower 1-B
Beijing Beijing 100102
CN

00-80-E1 (hex) STMicroelectronics SRL
0080E1 (base 16) STMicroelectronics SRL
1000 AZTEC WEST
london 12345
GB

00-04-EA (hex) Hewlett Packard
0004EA (base 16) Hewlett Packard
MAIL STOP 42LE
CUPERTINO CA 95014
US

F4-31-C3 (hex) Apple, Inc.
F431C3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

64-A5-C3
(hex) Apple, Inc.
64A5C3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E4-22-A5 (hex) PLANTRONICS, INC.
E422A5 (base 16) PLANTRONICS, INC.
345 ENCINAL STREET

SANTA CRUZ CA 95060
US

D4-C9-B2 (hex) Quanergy Systems Inc
D4C9B2 (base 16) Quanergy Systems Inc
482 Mercury Drive
Sunnyvale California 94085
US

60-21-C0 (hex) Murata Manufacturing Co., Ltd.
6021C0 (base 16) Murata Manufacturing Co., Ltd.
1-10-1 Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

88-30-8A (hex) Murata Manufacturing Co., Ltd.
88308A (base 16) Murata Manufacturing Co., Ltd.
1-10-1 Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

5C-DA-D4 (hex) Murata Manufacturing Co., Ltd.
5CDAD4 (base 16) Murata Manufacturing Co., Ltd.
2288, Oaza-Ohshinohara, Yasu-cho,
Yasu-gun Shiga 520-2393
JP

00-26-E8 (hex) Murata Manufacturing Co., Ltd.
0026E8 (base 16) Murata
Manufacturing Co., Ltd.
2288, Oaza-Ohshinohara, Yasu-cho,
Yasu-gun Shiga 520-2393
JP

FC-C8-97 (hex) zte corporation
FCC897 (base 16) zte corporation
12/F.,zte R&D building,kejinan Road,
shenzhen guangdong 518057
CN

00-25-12 (hex) zte corporation
002512 (base 16) zte corporation
12/F ZTE Plaza,Keji Road South,Hi-Tech Industrial Park,Nanshan District,
Shenzhen GUANGDONG 518057
CN

00-1C-26 (hex) Hon Hai Precision Ind. Co.,Ltd.
001C26 (base 16) Hon Hai Precision Ind. Co.,Ltd.

Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

00-22-68 (hex) Hon Hai Precision Ind. Co.,Ltd.
002268 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

BC-3A-EA (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
BC3AEA (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,WUSHA,CHANG'AN,DONGGUAN,GUANGDONG,CHINA
DONGGUAN
GUANGDONG 523860
CN

F8-1A-67 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
F81A67 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24 (floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park,Shennan Rd, Nanshan
shenzhen guangdong Province 518057
CN

EC-17-2F (hex) TP-LINK TECHNOLOGIES CO.,LTD.
EC172F (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24 (floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park,Shennan Rd, Nanshan
shenzhen guangdong Province 518057
CN

14-E6-E4 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
14E6E4 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24 (floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park,Shennan Rd, Nanshan,
Shenzhen Guangdong Province, 518057
CN

00-16-CE (hex) Hon Hai Precision Ind. Co.,Ltd.
0016CE (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing
Chongqing 401332
CN

30-0E-D5 (hex) Hon Hai Precision Ind. Co.,Ltd.
300ED5 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

48-5A-B6 (hex) Hon Hai Precision Ind. Co.,Ltd.
485AB6 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

54-35-30 (hex) Hon Hai Precision Ind. Co.,Ltd.
543530 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

00-24-38 (hex) Brocade Communications Systems LLC
002438 (base 16) Brocade Communications Systems LLC
1320 Ridder Park Dr
San Jose CA 95131
US

00-14-C9 (hex) Brocade Communications Systems LLC
0014C9 (base 16) Brocade Communications Systems LLC
1320 Ridder Park Dr
San Jose CA 95131
US

34-4B-50 (hex) zte corporation
344B50 (base 16) zte corporation
12/F,ZTE
R&D Building,Kejinan Road,
Shenzhen Guangdong 518057
CN

E8-08-8B (hex) HUAWEI TECHNOLOGIES CO.,LTD
E8088B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

0C-96-BF (hex) HUAWEI TECHNOLOGIES CO.,LTD
0C96BF (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

60-E7-01 (hex) HUAWEI TECHNOLOGIES CO.,LTD
60E701 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

50-EB-1A (hex) Brocade Communications Systems LLC
50EB1A (base 16) Brocade Communications Systems LLC
1320 Ridder Park Dr
San Jose CA 95131
US

00-27-F8 (hex) Brocade Communications Systems LLC
0027F8 (base 16) Brocade Communications Systems LLC
1320 Ridder Park Dr
San Jose CA 95131
US

74-8E-F8 (hex) Brocade Communications
Systems LLC
748EF8 (base 16) Brocade Communications Systems LLC
1320 Ridder Park Dr
San Jose CA 95131
US

F8-66-D1 (hex) Hon Hai Precision Ind. Co.,Ltd.
F866D1 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

F0-EB-D0 (hex) Shanghai Feixun Communication Co.,Ltd.
F0EBD0 (base 16) Shanghai Feixun Communication Co.,Ltd.
Building 90,No,4855,Guangfulin Road
shanghai Shanghai 201616
CN

88-86-03 (hex) HUAWEI TECHNOLOGIES CO.,LTD
888603 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base,Bantian,Longgang,Shenzhen
Shenzhen 518129
CN

04-F9-38 (hex) HUAWEI TECHNOLOGIES CO.,LTD
04F938 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base,Bantian,Longgang,Shenzhen
Shenzhen Guangdong 518129
CN

AC-85-3D (hex) HUAWEI TECHNOLOGIES CO.,LTD
AC853D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei

Industrial Base,Bantian,Longgang,Shenzhen
Shenzhen Guangdong 518129
CN

48-46-FB (hex) HUAWEI TECHNOLOGIES CO.,LTD
4846FB (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base,Bantian,Longgang,Shenzhen
Shenzhen Guangdong 518129
CN

7C-60-97 (hex) HUAWEI TECHNOLOGIES CO.,LTD
7C6097 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base,Bantian,Longgang,Shenzhen
ShenZhen GuangDong 518129
CN

CC-53-B5 (hex) HUAWEI TECHNOLOGIES CO.,LTD
CC53B5 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base,Bantian,Longgang,Shenzhen
ShenZhen GuangDong 518129
CN

60-DE-44 (hex) HUAWEI TECHNOLOGIES CO.,LTD
60DE44 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base,Bantian,Longgang,Shenzhen
ShenZhen GuangDong 518129
CN

10-51-72 (hex) HUAWEI TECHNOLOGIES CO.,LTD
105172 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base
Shenzhen Guangdong
518129
CN

08-E8-4F (hex) HUAWEI TECHNOLOGIES CO.,LTD
08E84F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base
Shenzhen Guangdong 518129
CN

64-3E-8C (hex) HUAWEI TECHNOLOGIES CO.,LTD
643E8C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base
Shenzhen Guangdong 518129
CN

84-A8-E4 (hex) HUAWEI TECHNOLOGIES CO.,LTD

84A8E4 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate,Shiyan Baoan District,
Shenzhen Guangdong 518108
CN

00-18-82 (hex) HUAWEI TECHNOLOGIES CO.,LTD
001882 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
F1-20,Section F,Huawei Base,Bantian, Longgang District
ShenZhen GuangDong 518129
CN

D4-EA-0E (hex) Avaya Inc
D4EA0E (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

78-F5-FD (hex) HUAWEI TECHNOLOGIES CO.,LTD
78F5FD (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building
17,Nangang Industrial Park,
Shenzhen Guangdong 518057
CN

5C-7D-5E (hex) HUAWEI TECHNOLOGIES CO.,LTD
5C7D5E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park,
Shenzhen Guangdong 518057
CN

20-F3-A3 (hex) HUAWEI TECHNOLOGIES CO.,LTD
20F3A3 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate,Shiyan Baoan District
Shenzhen Guangdong 518057
CN

0C-37-DC (hex) HUAWEI TECHNOLOGIES CO.,LTD
0C37DC (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate,Shiyan Baoan District
Shenzhen Guangdong 518057
CN

BC-76-70 (hex) HUAWEI TECHNOLOGIES CO.,LTD
BC7670 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate,Shiyan Baoan District,
Shenzhen Guangdong 518108
CN

24-DB-AC (hex) HUAWEI TECHNOLOGIES CO.,LTD
24DBAC
(base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate,Shiyan Baoan District,
Shenzhen Guangdong 518108
CN

1C-1D-67 (hex) HUAWEI TECHNOLOGIES CO.,LTD
1C1D67 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate,Shiyan Baoan District,
Shenzhen Guangdong 518108
CN

D0-2D-B3 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D02DB3 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate
Shenzhen GuangDong 518057
CN

E8-CD-2D (hex) HUAWEI TECHNOLOGIES CO.,LTD
E8CD2D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate
Shenzhen GuangDong 518057
CN

24-69-A5 (hex) HUAWEI TECHNOLOGIES CO.,LTD
2469A5 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park
Shenzhen Guangdong 518057
CN

EC-23-3D
(hex) HUAWEI TECHNOLOGIES CO.,LTD
EC233D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park,
Shenzhen Guangdong 518057
CN

E0-24-7F (hex) HUAWEI TECHNOLOGIES CO.,LTD
E0247F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1-4,Huawei Industrial Base,Bantian,Longgang
ShenZhen GuangDong 518129
CN

00-46-4B (hex) HUAWEI TECHNOLOGIES CO.,LTD
00464B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1-4,Huawei Industrial Base,Bantian,Longgang
ShenZhen GuangDong 518129

CN

80-FB-06 (hex) HUAWEI TECHNOLOGIES CO.,LTD
80FB06 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1-4,Huawei Industrial Base,Bantian,Longgang
ShenZhen GuangDong 518129
CN

90-67-1C (hex) HUAWEI TECHNOLOGIES CO.,LTD
90671C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

BC-25-E0 (hex) HUAWEI TECHNOLOGIES CO.,LTD
BC25E0 (base 16) HUAWEI TECHNOLOGIES
CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F4-E3-FB (hex) HUAWEI TECHNOLOGIES CO.,LTD
F4E3FB (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

6C-FA-58 (hex) Avaya Inc
6CFA58 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

6C-A8-49 (hex) Avaya Inc
6CA849 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

64-C3-54 (hex) Avaya Inc
64C354 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

50-CD-22 (hex) Avaya Inc
50CD22 (base 16) Avaya Inc
360 Mt Kemble Ave

Morristown NJ 07960
US

B4-A9-5A (hex) Avaya Inc
B4A95A (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

58-16-26 (hex) Avaya Inc
581626 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

A0-51-C6
(hex) Avaya Inc
A051C6 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

70-E4-22 (hex) Cisco Systems, Inc
70E422 (base 16) Cisco Systems, Inc
80 West Tasman Dr.
San Jose CA 94568
US

00-50-0F (hex) Cisco Systems, Inc
00500F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-50-A2 (hex) Cisco Systems, Inc
0050A2 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-E0-B0 (hex) Cisco Systems, Inc
00E0B0 (base 16) Cisco Systems, Inc
170 WEST TASMAN DRIVE
SAN JOSE CA 95134-1706
US

00-E0-FE (hex) Cisco Systems, Inc
00E0FE (base 16) Cisco Systems, Inc

170 WEST TASMAN DRIVE
SAN JOSE CA 95134-1706
US

00-E0-34 (hex) Cisco Systems, Inc
00E034 (base 16) Cisco Systems, Inc
170 WEST TASMAN DRIVE
SAN JOSE CA 95134-1706
US

00-E0-F9 (hex) Cisco Systems, Inc
00E0F9 (base 16) Cisco Systems,
Inc
170 WEST TASMAN DRIVE
SAN JOSE CA 95134-1706
US

C8-D7-19 (hex) Cisco-Linksys, LLC
C8D719 (base 16) Cisco-Linksys, LLC
121 Theory Drive
Irvine 92612
US

20-3A-07 (hex) Cisco Systems, Inc
203A07 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

00-12-D2 (hex) Texas Instruments
0012D2 (base 16) Texas Instruments
12500 TI Boulevard
Dallas 75243
US

A8-63-F2 (hex) Texas Instruments
A863F2 (base 16) Texas Instruments
12203 S.W.Freeway, MS728
Stafford 77477
US

D0-FF-50 (hex) Texas Instruments
D0FF50 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

20-C3-8F (hex) Texas Instruments

20C38F (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

7C-66-9D (hex) Texas Instruments
7C669D (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

D8-DD-FD (hex) Texas Instruments
D8DDFD
(base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

7C-1D-D9 (hex) Xiaomi Communications Co Ltd
7C1DD9 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

A0-86-C6 (hex) Xiaomi Communications Co Ltd
A086C6 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

9C-99-A0 (hex) Xiaomi Communications Co Ltd
9C99A0 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

58-44-98 (hex) Xiaomi Communications Co Ltd
584498 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

00-10-79 (hex) Cisco Systems, Inc
001079 (base
16) Cisco Systems, Inc
170 W. TASMAN DR.
SAN JOSE CA 95134-1706
US

00-10-29 (hex) Cisco Systems, Inc
001029 (base 16) Cisco Systems, Inc
170 W. TASMAN DR.
SAN JOSE CA 95134-1706
US

00-0E-08 (hex) Cisco-Linksys, LLC
000E08 (base 16) Cisco-Linksys, LLC
170 West Tasman Dr.
San Jose CA 95134
US

00-60-3E (hex) Cisco Systems, Inc
00603E (base 16) Cisco Systems, Inc
170 WEST TASMAN DRIVE
SAN JOSE CA 95134-1706
US

00-60-2F (hex) Cisco Systems, Inc
00602F (base 16) Cisco Systems, Inc
170 WEST TASMAN DRIVE
SAN JOSE CA 95134-1706
US

00-60-47 (hex) Cisco Systems, Inc
006047 (base 16) Cisco Systems, Inc
170 WEST TASMAN DRIVE
SAN JOSE CA 95134-1706
US

00-02-3D (hex) Cisco Systems, Inc
00023D (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

00-50-2A (hex) Cisco Systems, Inc
00502A (base 16) Cisco Systems, Inc
170
W. TASMAN DR.
SAN JOSE CA 95134-1706
US

44-03-A7 (hex) Cisco Systems, Inc
4403A7 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134

US

B0-FA-EB (hex) Cisco Systems, Inc
B0FAEB (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

D0-5F-B8 (hex) Texas Instruments
D05FB8 (base 16) Texas Instruments
12500 TI BLVD
Dallas 75243
US

84-EB-18 (hex) Texas Instruments
84EB18 (base 16) Texas Instruments
12500 TI BLVD
Dallas 75243
US

88-90-8D (hex) Cisco Systems, Inc
88908D (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

F0-78-16 (hex) Cisco Systems, Inc
F07816 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

00-22-3A (hex) Cisco SPVTG
00223A (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

00-21-BE (hex) Cisco SPVTG
0021BE
(base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

00-0C-41 (hex) Cisco-Linksys, LLC
000C41 (base 16) Cisco-Linksys, LLC
121 Theory Dr.

Irvine CA 92612
US

1C-DE-A7 (hex) Cisco Systems, Inc
1CDEA7 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

F0-7F-06 (hex) Cisco Systems, Inc
F07F06 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

BC-16-F5 (hex) Cisco Systems, Inc
BC16F5 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

FC-5B-39 (hex) Cisco Systems, Inc
FC5B39 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

34-6F-90 (hex) Cisco Systems, Inc
346F90 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

14-DA-E9 (hex) ASUSTek COMPUTER INC.
14DAE9 (base 16) ASUSTek COMPUTER INC.
15,Li-Te
Rd.,Peitou,
Taipei 112
TW

F4-CF-E2 (hex) Cisco Systems, Inc
F4CFE2 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

A8-0C-0D (hex) Cisco Systems, Inc
A80C0D (base 16) Cisco Systems, Inc

170 West Tasman Drive
San Jose CA 95134
US

7C-AD-74 (hex) Cisco Systems, Inc
7CAD74 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

F4-1F-C2 (hex) Cisco Systems, Inc
F41FC2 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

44-AD-D9 (hex) Cisco Systems, Inc
44ADD9 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

0C-68-03 (hex) Cisco Systems, Inc
0C6803 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

C0-8C-60 (hex) Cisco Systems, Inc
C08C60 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

E8-ED-F3
(hex) Cisco Systems, Inc
E8EDF3 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

E4-C7-22 (hex) Cisco Systems, Inc
E4C722 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

64-E9-50 (hex) Cisco Systems, Inc

64E950 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

5C-FC-66 (hex) Cisco Systems, Inc
5CFC66 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

D4-6D-50 (hex) Cisco Systems, Inc
D46D50 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

74-A0-2F (hex) Cisco Systems, Inc
74A02F (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

C0-7B-BC (hex) Cisco Systems, Inc
C07BBC (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

24-E9-B3 (hex) Cisco Systems, Inc
24E9B3 (base 16) Cisco
Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

00-11-D8 (hex) ASUSTek COMPUTER INC.
0011D8 (base 16) ASUSTek COMPUTER INC.
No.150, Li-Te Rd., Peitou
Taipei 112
TW

00-18-F3 (hex) ASUSTek COMPUTER INC.
0018F3 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd.,Peitou
Taipei 112
TW

00-1A-92 (hex) ASUSTek COMPUTER INC.
001A92 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd.,Peitou
Taipei 112
TW

88-F0-31 (hex) Cisco Systems, Inc
88F031 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

00-16-B6 (hex) Cisco-Linksys, LLC
0016B6 (base 16) Cisco-Linksys, LLC
121 Theory Dr.
Irvine CA 92612
US

00-18-F8 (hex) Cisco-Linksys, LLC
0018F8 (base 16) Cisco-Linksys, LLC
121 Theory Drive
Irvine CA 92612
US

00-25-2E (hex) Cisco SPVTG
00252E (base 16) Cisco SPVTG
5030 Sugarloaf Pkwy
Lawrenceville GA 30044
US

54-D4-6F
(hex) Cisco SPVTG
54D46F (base 16) Cisco SPVTG
5030 Sugarloaf Pkwy
Lawrenceville GA 30044
US

A4-A2-4A (hex) Cisco SPVTG
A4A24A (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

44-E0-8E (hex) Cisco SPVTG
44E08E (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

BC-C8-10 (hex) Cisco SPVTG
BCC810 (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

7C-B2-1B (hex) Cisco SPVTG
7CB21B (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville 30044
US

24-76-7D (hex) Cisco SPVTG
24767D (base 16) Cisco SPVTG
5030 Sugarloaf Pkwy
Lawrenceville GA 30044
US

48-1D-70 (hex) Cisco SPVTG
481D70 (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

00-E0-36 (hex) PIONEER CORPORATION
00E036 (base 16) PIONEER CORPORATION
2610 Hanazono 4-Chome
Saitama
Prefecture, 359-8 34567
JP

00-E0-4F (hex) Cisco Systems, Inc
00E04F (base 16) Cisco Systems, Inc
170 WEST TASMAN DRIVE
SAN JOSE CA 95134-1706
US

00-10-FF (hex) Cisco Systems, Inc
0010FF (base 16) Cisco Systems, Inc
170 WEST TASMAN DRIVE
SAN JOSE CA 95134-1706
US

00-10-54 (hex) Cisco Systems, Inc
001054 (base 16) Cisco Systems, Inc
170 WEST TASMAN DRIVE
SAN JOSE CA 95134-1706

US

00-10-F6 (hex) Cisco Systems, Inc
0010F6 (base 16) Cisco Systems, Inc
170 WEST TASMAN DRIVE
SAN JOSE CA 95134-1706
US

00-10-A6 (hex) Cisco Systems, Inc
0010A6 (base 16) Cisco Systems, Inc
170 WEST TASMAN DRIVE
SAN JOSE CA 95134-1706
US

F0-B2-E5 (hex) Cisco Systems, Inc
F0B2E5 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

00-10-FA (hex) Apple, Inc.
0010FA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-50-E4
(hex) Apple, Inc.
0050E4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-0D-93 (hex) Apple, Inc.
000D93 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-19-E3 (hex) Apple, Inc.
0019E3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-1B-63 (hex) Apple, Inc.
001B63 (base 16) Apple, Inc.
1 Infinite Loop

Cupertino CA 95014
US

00-1E-C2 (hex) Apple, Inc.
001EC2 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-1F-F3 (hex) Apple, Inc.
001FF3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-23-32 (hex) Apple, Inc.
002332 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-23-6C (hex) Apple, Inc.
00236C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-23-DF (hex) Apple, Inc.
0023DF (base 16) Apple, Inc.
1
Infinite Loop
Cupertino CA 95014
US

00-25-00 (hex) Apple, Inc.
002500 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-25-BC (hex) Apple, Inc.
0025BC (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

34-15-9E (hex) Apple, Inc.
34159E (base 16) Apple, Inc.

1 Infinite Loop
Cupertino CA 95014
US

58-B0-35 (hex) Apple, Inc.
58B035 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

5C-59-48 (hex) Apple, Inc.
5C5948 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C8-BC-C8 (hex) Apple, Inc.
C8BCC8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

58-97-BD (hex) Cisco Systems, Inc
5897BD (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

5C-83-8F (hex) Cisco Systems, Inc
5C838F (base 16) Cisco Systems, Inc
170 West Tasman Drive
San
Jose CA 95134
US

EC-BD-1D (hex) Cisco Systems, Inc
ECBD1D (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

7C-FA-DF (hex) Apple, Inc.
7CFADF (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

24-AB-81 (hex) Apple, Inc.

24AB81 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

78-A3-E4 (hex) Apple, Inc.
78A3E4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

1C-AB-A7 (hex) Apple, Inc.
1CABA7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E0-F8-47 (hex) Apple, Inc.
E0F847 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

28-E7-CF (hex) Apple, Inc.
28E7CF (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E4-CE-8F (hex) Apple, Inc.
E4CE8F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E8-04-0B (hex) Apple,
Inc.
E8040B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

14-5A-05 (hex) Apple, Inc.
145A05 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

14-8F-C6 (hex) Apple, Inc.
148FC6 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

28-6A-B8 (hex) Apple, Inc.
286AB8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

28-E0-2C (hex) Apple, Inc.
28E02C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E0-B9-BA (hex) Apple, Inc.
E0B9BA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-C6-10 (hex) Apple, Inc.
00C610 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

7C-D1-C3 (hex) Apple, Inc.
7CD1C3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-DC-E2 (hex) Apple, Inc.
F0DCE2 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino
CA 95014
US

A8-20-66 (hex) Apple, Inc.
A82066 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

BC-52-B7 (hex) Apple, Inc.
BC52B7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C0-84-7A (hex) Apple, Inc.
C0847A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B8-F6-B1 (hex) Apple, Inc.
B8F6B1 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

8C-FA-BA (hex) Apple, Inc.
8CFABA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

88-1F-A1 (hex) Apple, Inc.
881FA1 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C8-E0-EB (hex) Apple, Inc.
C8E0EB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

98-B8-E3 (hex) Apple, Inc.
98B8E3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

88-53-95 (hex) Apple, Inc.
885395
(base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

78-6C-1C (hex) Apple, Inc.
786C1C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

4C-8D-79 (hex) Apple, Inc.
4C8D79 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

1C-E6-2B (hex) Apple, Inc.
1CE62B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

24-A2-E1 (hex) Apple, Inc.
24A2E1 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

04-21-4C (hex) Insight Energy Ventures LLC
04214C (base 16) Insight Energy Ventures LLC
123 W. Fifth St
Royal Oak MI 48067
US

F8-32-E4 (hex) ASUSTek COMPUTER INC.
F832E4 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

80-EA-96 (hex) Apple, Inc.
80EA96 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

60-03-08 (hex) Apple,
Inc.
600308 (base 16) Apple, Inc.
1 Infinite Loop

Cupertino CA 95014
US

04-F1-3E (hex) Apple, Inc.
04F13E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

98-F0-AB (hex) Apple, Inc.
98F0AB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

08-74-02 (hex) Apple, Inc.
087402 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

94-F6-A3 (hex) Apple, Inc.
94F6A3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

98-E0-D9 (hex) Apple, Inc.
98E0D9 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

CC-29-F5 (hex) Apple, Inc.
CC29F5 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

28-5A-EB (hex) Apple, Inc.
285AEB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

74-81-14 (hex) Apple, Inc.
748114 (base 16) Apple, Inc.
1 Infinite

Loop
Cupertino CA 95014
US

18-F6-43 (hex) Apple, Inc.
18F643 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A4-5E-60 (hex) Apple, Inc.
A45E60 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A0-18-28 (hex) Apple, Inc.
A01828 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D0-03-4B (hex) Apple, Inc.
D0034B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

24-A0-74 (hex) Apple, Inc.
24A074 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-24-75 (hex) Apple, Inc.
F02475 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

2C-1F-23 (hex) Apple, Inc.
2C1F23 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

54-9F-13 (hex) Apple, Inc.
549F13 (base 16) Apple, Inc.

1 Infinite Loop
Cupertino CA 95014
US

F0-DB-E2 (hex) Apple, Inc.
F0DBE2
(base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

0C-30-21 (hex) Apple, Inc.
0C3021 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

DC-86-D8 (hex) Apple, Inc.
DC86D8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

90-B9-31 (hex) Apple, Inc.
90B931 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D0-E1-40 (hex) Apple, Inc.
D0E140 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

10-41-7F (hex) Apple, Inc.
10417F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A8-66-7F (hex) Apple, Inc.
A8667F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D0-25-98 (hex) Apple, Inc.

D02598 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

78-3A-84 (hex) Apple, Inc.
783A84 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino
CA 95014
US

5C-8D-4E (hex) Apple, Inc.
5C8D4E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

88-63-DF (hex) Apple, Inc.
8863DF (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

84-78-8B (hex) Apple, Inc.
84788B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

80-BE-05 (hex) Apple, Inc.
80BE05 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

78-31-C1 (hex) Apple, Inc.
7831C1 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

0C-3E-9F (hex) Apple, Inc.
0C3E9F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

FC-FC-48 (hex) Apple, Inc.
FCFC48 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

9C-29-3F (hex) Apple, Inc.
9C293F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

80-A1-AB (hex) Intellisis
80A1AB
(base 16) Intellisis
10350 Science Center Dr
San Diego CA 92121
US

84-28-5A (hex) Saffron Solutions Inc
84285A (base 16) Saffron Solutions Inc
1337 Mass Ave #273
Arlington MA 02476
US

D4-B8-FF (hex) Home Control Singapore Pte Ltd
D4B8FF (base 16) Home Control Singapore Pte Ltd
620A Lorong 1 Toa Payoh
Singapore Singapore 217909
SG

EC-64-E7 (hex) MOCACARE Corporation
EC64E7 (base 16) MOCACARE Corporation
887 Federation Way
Palo Alto CA 94303
US

40-86-2E (hex) JDM MOBILE INTERNET SOLUTION CO., LTD.
40862E (base 16) JDM MOBILE INTERNET SOLUTION CO., LTD.

Jiashan Zhejiang 314100
CN

58-F4-96 (hex) Source Chain
58F496 (base 16) Source Chain
#407-4 eBIZ.Center
Seoul seoul ASI|KR|KS013|SEOUL
KR

88-94-7E (hex) Fiberhome Telecommunication Technologies Co.,LTD
88947E (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan
Hubei 430074
CN

84-A4-23 (hex) Sagemcom Broadband SAS
84A423 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

98-F4-28 (hex) zte corporation
98F428 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

E8-34-3E (hex) Beijing Infosec Technologies Co., LTD.
E8343E (base 16) Beijing Infosec Technologies Co., LTD.
Floor 4, Tower C, Global Finance and News Center
Beijing Beijing 100052
CN

34-69-87 (hex) zte corporation
346987 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

D0-7C-2D (hex) Leie IOT technology Co., Ltd
D07C2D (base 16) Leie IOT technology Co., Ltd
9th floor,Hongchengxintai building,No.105,Yaojiayuan Road,Chaoyang District,Beijing
Beijing Beijing 100026
CN

9C-88-AD (hex) Fiberhome
Telecommunication Technologies Co.,LTD
9C88AD (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

C8-A2-CE (hex) Oasis Media Systems LLC
C8A2CE (base 16) Oasis Media Systems LLC
1073 Barley Sheaf Rd

Flemington NJ 08822
US

3C-78-73 (hex) Airsonics
3C7873 (base 16) Airsonics
1289 Fordham Blvd.
Chapel Hill NC 27514
US

70-BF-3E (hex) Charles River Laboratories
70BF3E (base 16) Charles River Laboratories
1023 Wappoo Road Suite 43B
Charleston SC 29407
US

A8-C8-7F (hex) Roqos, Inc.
A8C87F (base 16) Roqos, Inc.
1775 Greensboro Station Place
Mclean Virginia 22102
US

3C-83-1E (hex) CKD Corporation
3C831E (base 16) CKD Corporation
250, Ouji 2-Chome
Komaki Aichi 485-8551
JP

90-DF-FB (hex) HOMERIDER SYSTEMS
90DFFB (base 16) HOMERIDER SYSTEMS
12 RUE REMORA
GRADIGNAN GIRONDE 33170
FR

2C-08-1C (hex) OVH
2C081C
(base 16) OVH
2, rue Kellermann
Roubaix Nord 59100
FR

C0-84-88 (hex) Finis Inc
C08488 (base 16) Finis Inc
7085-E Las Positas Rd
Livermore CA 94551
US

38-F5-57 (hex) JOLATA, INC.
38F557 (base 16) JOLATA, INC.

2262 N. FIRST ST.
SAN JOSE CA 95134
US

40-54-E4 (hex) Wearsafe Labs Inc
4054E4 (base 16) Wearsafe Labs Inc
1429 Park Street
Hartford CT 06106
US

30-5A-3A (hex) ASUSTek COMPUTER INC.
305A3A (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

58-7F-57 (hex) Apple, Inc.
587F57 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

98-87-44 (hex) Wuxi Hongda Science and Technology Co.,LTD
988744 (base 16) Wuxi Hongda Science and Technology Co.,LTD
No.10 An Nan Road, Nan Quan Town, Bin Hu District
WUXI Jiangsu 214128
CN

A4-CC-32 (hex) Inficomm Co., Ltd
A4CC32 (base
16) Inficomm Co., Ltd
3F, B-31 Building, Tanglang Industry Park, Taoyuan Str, Nanshan District
Shenzhen Guangdong 518055
CN

C4-BB-EA (hex) Pakedge Device and Software Inc
C4BBEA (base 16) Pakedge Device and Software Inc
3847 Breakwater Ave
Hayward CA 94545
US

00-6D-52 (hex) Apple, Inc.
006D52 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

54-A3-FA (hex) BQT Solutions (Australia)Pty Ltd

54A3FA (base 16) BQT Solutions (Australia)Pty Ltd
Unit 29, 1 Talavera Road
North Ryde NSW 2113
AU

A0-32-99 (hex) Lenovo (Beijing) Co., Ltd.
A03299 (base 16) Lenovo (Beijing) Co., Ltd.
No.6, ChuangYe Road,
Haidian District Beijing 100085
CN

AC-EE-9E (hex) Samsung Electronics Co.,Ltd
ACEE9E (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

04-1E-7A (hex) DSPWorks
041E7A (base 16) DSPWorks
12/947, MHB Colony, Gorai Road
Mumbai
400091
IN

38-5F-66 (hex) Cisco SPVTG
385F66 (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

9C-7A-03 (hex) Ciena Corporation
9C7A03 (base 16) Ciena Corporation
7035 Ridge Road
Hanover MD 21076
US

24-6C-8A (hex) YUKAI Engineering
246C8A (base 16) YUKAI Engineering
16-11-101, Tomihisa, Shinjuku
Tokyo - 162-0067

5C-CF-7F (hex) Espressif Inc.
5CCF7F (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

B8-57-D8 (hex) Samsung Electronics Co.,Ltd
B857D8 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B8-44-D9 (hex) Apple, Inc.
B844D9 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

68-12-95 (hex) Lupine Lighting Systems GmbH
681295 (base 16) Lupine Lighting Systems GmbH
Winnberger Weg 11
Neumarkt Bavaria
92318
DE

70-11-AE (hex) Music Life LTD
7011AE (base 16) Music Life LTD
Unit E, 31/F, Billion Centre Tower A
Kowloon N/A 00000
HK

AC-C5-1B (hex) Zhuhai Pantum Electronics Co., Ltd.
ACC51B (base 16) Zhuhai Pantum Electronics Co., Ltd.
Area A, 3rd floor, Building No.1, No.3883, Zhuhai Avenue, Zhuhai, Guangdong, China
Zhuhai Guangdong 519000
CN

1C-49-7B (hex) Gemtek Technology Co., Ltd.
1C497B (base 16) Gemtek Technology Co., Ltd.
No. 1 Jen Ai Road Hsinchu Industrial Park Hukou, Hsinchu 30352 TAIWAN, REPUBLIC OF CHINA
Hsinchu TAIWAN 30352
TW

2C-CF-58 (hex) HUAWEI TECHNOLOGIES CO.,LTD
2CCF58 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D0-93-80 (hex) Ducere Technologies Pvt. Ltd.
D09380 (base 16) Ducere Technologies Pvt. Ltd.
222B West Marredpally
Secunderabad Telangana 500026
IN

68-F9-56 (hex) Objetivos
y Servicio de Valor Añadido
68F956 (base 16) Objetivos y Servicio de Valor Añadido
c/Monte Esquinza, 28 1ºD
MADRID MADRID 28010
ES

84-A7-88 (hex) Perples
84A788 (base 16) Perples
8F, 209 Dosan-daero,
Seoul 135-892
KR

AC-60-B6 (hex) Ericsson AB
AC60B6 (base 16) Ericsson AB
Torshamnsgatan 36
Stockholm SE-164 80
SE

14-B3-70 (hex) Gigaset Digital Technology (Shenzhen) Co., Ltd.
14B370 (base 16) Gigaset Digital Technology (Shenzhen) Co., Ltd.
11/F, Matsunichi Building, No.9996 Shen Nan Boulevard, Nan Shan District, Shenzhen, China
ShenZhen Guangdong 518000
CN

68-89-C1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
6889C1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C8-A9-FC (hex) Goyoo Networks Inc.
C8A9FC (base 16) Goyoo Networks Inc.
Building D, Kelin Blocks, No.107, Dongsi North St,
Beijing Beijing
100007
CN

14-3E-BF (hex) zte corporation
143EBF (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

FC-2F-EF (hex) UTT Technologies Co., Ltd.
FC2FEF (base 16) UTT Technologies Co., Ltd.
Room 301, Building 9, No. 518 Xinzhuan

Shanghai Shanghai 201612
CN

FC-FE-C2 (hex) Invensys Controls UK Limited
FCFEC2 (base 16) Invensys Controls UK Limited
401 Southway Drive
Plymouth Devon Pl6 6QT
GB

68-9A-B7 (hex) Atelier Vision Corporation
689AB7 (base 16) Atelier Vision Corporation
888-340 Nakagawa
Hamamatsu Shizuoka 431-1304
JP

4C-B8-2C (hex) Cambridge Mobile Telematics, Inc.
4CB82C (base 16) Cambridge Mobile Telematics, Inc.
One Broadway, 14th Floor
Cambridge MA 02142
US

E4-A3-2F (hex) Shanghai Artimen Technology Co., Ltd.
E4A32F (base 16) Shanghai Artimen Technology Co., Ltd.
Room 4462, Third Building,
No. 505, Xinge Road, Xinqiao Town, SongJiang District, Shanghai City, China
Shanghai Shanghai 201206
CN

7C-2B-E1 (hex) Shenzhen Ferex Electrical Co.,Ltd
7C2BE1 (base 16) Shenzhen Ferex Electrical Co.,Ltd
Block 2,Jiuzhou Industrial Park,Gongming
Shenzhen Guangdong 518107
CN

50-31-AD (hex) ABB Global Industries and Services Private Limited
5031AD (base 16) ABB Global Industries and Services Private Limited
21st floor, World Trade Center
Bangalore Karnataka 560055
IN

A4-C1-38 (hex) Telink Semiconductor (Taipei) Co. Ltd.
A4C138 (base 16) Telink Semiconductor (Taipei) Co. Ltd.
Room 1050. 10F. Buld. H, No. 3-2 YuanQu St.,
Taipei Taipei 11503
TW

20-F5-10 (hex) Codex Digital Limited
20F510 (base 16) Codex Digital Limited

60 Poland Street
London Greater London W1F 7NT
GB

A8-74-1D (hex) PHOENIX CONTACT Electronics GmbH
A8741D (base 16) PHOENIX CONTACT Electronics GmbH
Dringenauer
Str. 30
Bad Pyrmont - D-31812
DE

44-4C-A8 (hex) Arista Networks
444CA8 (base 16) Arista Networks
5453 Great America Parkway
Santa Clara CA 95054
US

A4-8D-3B (hex) Vizio, Inc
A48D3B (base 16) Vizio, Inc
39 Tesla
Irvine CA 92618
US

1C-56-FE (hex) Motorola Mobility LLC, a Lenovo Company
1C56FE (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

04-61-69 (hex) MEDIA GLOBAL LINKS CO., LTD.
046169 (base 16) MEDIA GLOBAL LINKS CO., LTD.
580-16, Horikawa-cho
Kawasaki Kanagawa 212-0013
JP

BC-EB-5F (hex) Fujian Beifeng Telecom Technology Co., Ltd.
BCEB5F (base 16) Fujian Beifeng Telecom Technology Co., Ltd.
A-15, Huaqiao Economic Development Zone, Shuangyang, Luojiang,
quanzhou fujian 362000
CN

F0-9A-51 (hex) Shanghai Viroyal Electronic Technology Company Limited
F09A51 (base 16) Shanghai Viroyal Electronic Technology
Company Limited
LevelB,Building#3,401 Caobao Road,Shanghai,China
Shanghai Shanghai 200233
CN

7C-A2-3E (hex) HUAWEI TECHNOLOGIES CO.,LTD
7CA23E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E0-03-70 (hex) ShenZhen Continental Wireless Technology Co., Ltd.
E00370 (base 16) ShenZhen Continental Wireless Technology Co., Ltd.
North 23F, Dongfang Technology Building,
Shenzhen Guangdong 518057
CN

B8-69-C2 (hex) Sunitec Enterprise Co., Ltd.
B869C2 (base 16) Sunitec Enterprise Co., Ltd.
1F., No.35, Dayong St., Zhonghe Dist.,
New Taipei City Taiwan 235
TW

88-CB-A5 (hex) Suzhou Torchstar Intelligent Technology Co.,Ltd
88CBA5 (base 16) Suzhou Torchstar Intelligent Technology Co.,Ltd
Rm1704B,Business Building, No.181, Cuiyuan Rd.,SIP
Suzhou Jiangsu Province 215000
CN

B8-99-B0 (hex) Cohere Technologies
B899B0 (base
16) Cohere Technologies
404 Saratoga Avenue
Santa Clara CA 95050
US

D8-5D-EF (hex) Busch-Jaeger Elektro GmbH
D85DEF (base 16) Busch-Jaeger Elektro GmbH
Freisenbergstrasse 2
Luedenscheid NRW 58513
DE

88-A2-D7 (hex) HUAWEI TECHNOLOGIES CO.,LTD
88A2D7 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-32-3A (hex) so-logic
00323A (base 16) so-logic
Lustkandlgasse 52
Vienna Vienna 1090
AT

F4-67-2D (hex) ShenZhen Topstar Technology Company
F4672D (base 16) ShenZhen Topstar Technology Company
5/F Buliding 204,Tai Ran ShenZhen Science&Industry Park
ShenZhen GuangZhou 518042
CN

A8-D8-28 (hex) Ascensia Diabetes Care
A8D828 (base 16) Ascensia Diabetes Care
5 Wood Hollow Rd,
Parsippany NJ 07054
US

3C-31-78 (hex) Qolsys Inc.
3C3178 (base 16) Qolsys Inc.
1900 The Alameda
San Jose Ca
95126
US

80-9F-AB (hex) Fiberhome Telecommunication Technologies Co.,LTD
809FAB (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

50-1A-A5 (hex) GN Netcom A/S
501AA5 (base 16) GN Netcom A/S
Lautrupbjerg 7
Ballerup Ballerup DK-2750
DK

E0-4B-45 (hex) Hi-P Electronics Pte Ltd
E04B45 (base 16) Hi-P Electronics Pte Ltd
12 Ang Mo Kio Street 64
Singapore Singapore 569088
SG

F4-6A-92 (hex) SHENZHEN FAST TECHNOLOGIES CO.,LTD
F46A92 (base 16) SHENZHEN FAST TECHNOLOGIES CO.,LTD
Room 202,Building No.5,Section 30,No.2 of Kefa Road,Nanshan District,Shenzhen,P.R.China
Shenzhen Guangdong 518057
CN

F0-D6-57 (hex) ECHOSENS
F0D657 (base 16) ECHOSENS
30 Place d'Italie
PARIS 13 Ile de France 75013

FR

F0-AB-54 (hex) MITSUMI ELECTRIC CO.,LTD.
F0AB54 (base 16) MITSUMI ELECTRIC CO.,LTD.
2-11-2, Tsurumaki
Tama-shi Tokyo 206-8567
JP

14-15-7C
(hex) TOKYO COSMOS ELECTRIC CO.,LTD.
14157C (base 16) TOKYO COSMOS ELECTRIC CO.,LTD.
2-268 Sobudai
Zama Kanagawa 252-8550
JP

20-E4-07 (hex) Spark srl
20E407 (base 16) Spark srl
Via A. Gramsci 86/A
Reggio Emilia 42124
IT

88-73-84 (hex) Toshiba
887384 (base 16) Toshiba
2-9,Suehiro-Cho
Ome Tokyo 1988710
JP

AC-56-2C (hex) LAVA INTERNATIONAL(H.K) LIMITED
AC562C (base 16) LAVA INTERNATIONAL(H.K) LIMITED
UNIT L 1/F MAU LAM COMM BLDG 16-18
Hong Kong
CN

9C-37-F4 (hex) HUAWEI TECHNOLOGIES CO.,LTD
9C37F4 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

3C-47-11 (hex) HUAWEI TECHNOLOGIES CO.,LTD
3C4711 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

5C-EB-68 (hex) Cheerstar Technology Co., Ltd
5CEB68

(base 16) Cheerstar Technology Co., Ltd
5th Floor,Hongye Industrial Park,
ShenZhen GuangDong 518006
CN

D0-9D-AB (hex) TCT mobile ltd
D09DAB (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

FC-9A-FA (hex) Motus Global Inc.
FC9AFA (base 16) Motus Global Inc.
5394 Merrick Road
Massapequa NY 11758
US

08-EC-A9 (hex) Samsung Electronics Co.,Ltd
08ECA9 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

AC-5A-14 (hex) Samsung Electronics Co.,Ltd
AC5A14 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

1C-F0-3E (hex) Wearhaus Inc.
1CF03E (base 16) Wearhaus Inc.
2041 Bancroft Way
Berkeley CA 94704
US

C8-E1-30 (hex) Milkyway Group Ltd
C8E130 (base 16) Milkyway Group Ltd
RM 405 Tung Ming Building
Hong Kong Hong Kong 999077
HK

1C-C5-86
(hex) Absolute Acoustics
1CC586 (base 16) Absolute Acoustics
Av. Corifeu de Azevedo Marques, 1703
Sao Paulo 05581-001
BR

24-69-3E (hex) innodisk Corporation
24693E (base 16) innodisk Corporation
5F., No. 237, Sec. 1, Datong Rd., Xizhi Dist.
New Taipei City Taiwan 221
TW

C0-DC-6A (hex) Qingdao Eastsoft Communication Technology Co.,LTD
C0DC6A (base 16) Qingdao Eastsoft Communication Technology Co.,LTD
Shandong QINGDAO, No. 16A, Shangqing Road, Shibei District
QINGDAO Shandong 266023
CN

24-B0-A9 (hex) Shanghai Mobiletek Communication Ltd.
24B0A9 (base 16) Shanghai Mobiletek Communication Ltd.
RM201, Building 9, No 99 Tianzhou RD, Shanghai China
Shanghai Shanghai 200233
CN

40-7F-E0 (hex) Glory Star Technics (ShenZhen) Limited
407FE0 (base 16) Glory Star Technics (ShenZhen) Limited
4/f, West Block, Xi Li Village, Xin Wu Industry Bldg., Nan Shan District, ShenZhen, China
Shenzhen
China
CN

80-50-67 (hex) W & D TECHNOLOGY CORPORATION
805067 (base 16) W & D TECHNOLOGY CORPORATION
1F., NO.22, GONGYEQU 31TH RD
TAICHUNG CITY TAIWAN 40768
TW

78-F9-44 (hex) Private
78F944 (base 16) Private

48-6E-FB (hex) Davit System Technology Co., Ltd.
486EFB (base 16) Davit System Technology Co., Ltd.
#304 Hanlim Human Tower, LS-Ro 172
Gunpo-si Gyeonggi-Do 435-824
KR

B0-96-6C (hex) Lanbowan Technology Ltd.
B0966C (base 16) Lanbowan Technology Ltd.
No. 60 Langbao Xi Road
Foshan Guangdong 528051
CN

5C-5B-35 (hex) Mist Systems, Inc.
5C5B35 (base 16) Mist Systems, Inc.

1601 South De Anza Blvd, Suite 248
Cupertino CA 95014
US

F8-CF-C5 (hex) Motorola Mobility LLC, a Lenovo Company
F8CFC5 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

14-6B-72 (hex) Shenzhen Fortune Ship Technology Co., Ltd.
146B72
(base 16) Shenzhen Fortune Ship Technology Co., Ltd.
Room 701-716, 7th Floor,
Nanshan District, Shenzhen Guangdong 518000
CN

C4-3A-BE (hex) Sony Corporation
C43ABE (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

88-3B-8B (hex) Cheering Connection Co. Ltd.
883B8B (base 16) Cheering Connection Co. Ltd.
Room 602, Shenzhen Software Park T2-B
Shenzhen Guangdong 518057
CN

E4-F9-39 (hex) Minxon Hotel Technology INC.
E4F939 (base 16) Minxon Hotel Technology INC.
3F, No.37, Dongxing Rd., Xinyi Dist.
Taipei Taiwan 11070
TW

70-DA-9C (hex) TECSEN
70DA9C (base 16) TECSEN
$401, Jeongsu Bd, 94-70,
SEOUL NA 150-037
KR

78-40-E4 (hex) Samsung Electronics Co.,Ltd
7840E4 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

E0-99-71 (hex) Samsung Electronics Co.,Ltd

E09971 (base 16) Samsung Electronics Co.,Ltd
#94-1,
Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

2C-A2-B4 (hex) Fortify Technologies, LLC
2CA2B4 (base 16) Fortify Technologies, LLC
6200 Shingle Creek Pkwy, Suite 400
Minneapolis Minnesota 55430
US

10-D3-8A (hex) Samsung Electronics Co.,Ltd
10D38A (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

24-76-56 (hex) Shanghai Net Miles Fiber Optics Technology Co., LTD.
247656 (base 16) Shanghai Net Miles Fiber Optics Technology Co., LTD.
Flat F, 17th Floor, Southern International Mansion
Shanghai Shanghai 201401
CN

B8-F0-80 (hex) SPS, INC.
B8F080 (base 16) SPS, INC.
70, Techno8-ro
Yuseong-gu Daejeon 305-500
KR

A4-7B-85 (hex) ULTIMEDIA Co Ltd,
A47B85 (base 16) ULTIMEDIA Co Ltd,
Guro-Gu Saeaml-ro 102
Seoul 152770
KR

EC-BA-FE (hex) GIROPTIC
ECBAFE (base 16) GIROPTIC
165 avenue de Bretagne
Lille Nord 59000
FR

3C-2C-94 (hex) HangZhou
Delan Technology Co.,Ltd
3C2C94 (base 16) HangZhou Delan Technology Co.,Ltd
tianmushan road no.398,Xihu District, hangzhou city, zhejiang province, China
Hangzhou ZheJiang 310013
CN

84-73-03 (hex) Letv Mobile and Intelligent Information Technology (Beijing) Corporation Ltd.
847303 (base 16) Letv Mobile and Intelligent Information Technology (Beijing) Corporation Ltd.
5th floor,Hongchengxintai building,No.105,Yaojiayuan Road,Chaoyang District,Beijing
Beijing Chaoyang 100025
CN

3C-C2-E1 (hex) XINHUA CONTROL ENGINEERING CO.,LTD
3CC2E1 (base 16) XINHUA CONTROL ENGINEERING CO.,LTD
160 Wenjing Road, Minhang
Shanghai Shanghai 200245
CN

E4-85-01 (hex) Geberit International AG
E48501 (base 16) Geberit International AG
Schachenstrasse 77
Jona SG 8645
CH

20-62-74 (hex) Microsoft Corporation
206274 (base 16) Microsoft Corporation
1 Microsoft Way
Redmond Washington
98052
FI

E8-16-2B (hex) IDEO Security Co., Ltd.
E8162B (base 16) IDEO Security Co., Ltd.
1404, Seoul Forest IT Valley, 77, Seongsuil-ro
Seongdong-gu, SEOUL 133-822
KR

24-1B-44 (hex) Hangzhou Tuners Electronics Co., Ltd
241B44 (base 16) Hangzhou Tuners Electronics Co., Ltd
5/F,Building No.1,No.619
BinJiang District, Hangzhou ZheJiang 310053
CN

80-A8-5D (hex) Osterhout Design Group
80A85D (base 16) Osterhout Design Group
153 Townsend Suite 570
San Francisco CA 94107
US

AC-CA-AB (hex) Virtual Electric Inc
ACCAAB (base 16) Virtual Electric Inc
1314 Vanna Ct
San Jose CA 95131

US

48-54-15 (hex) NET RULES TECNOLOGIA EIRELI
485415 (base 16) NET RULES TECNOLOGIA EIRELI
Rua Madre Cabrini, 240 - 7°andar
São Paulo São Paulo 04020000
BR

8C-87-3B (hex) Leica Camera AG
8C873B (base 16) Leica Camera AG
Am Leitz-Park 5
Wetzlar Hessen 35578
DE

E0-FF-F7
(hex) Softiron Inc.
E0FFF7 (base 16) Softiron Inc.
6540 Central Avenue
Newark California 94560
US

D8-93-41 (hex) General Electric Global Research
D89341 (base 16) General Electric Global Research
2623 Camino Ramon
San Ramon CA 94583
US

70-0F-C7 (hex) SHENZHEN IKINLOOP TECHNOLOGY CO.,LTD.
700FC7 (base 16) SHENZHEN IKINLOOP TECHNOLOGY CO.,LTD.
Room 8B,Building C, Tongfang Information Port, Langshan Road, Science
Shenzhen Guangdong 518057
CN

34-9E-34 (hex) Evervictory Electronic Co.Ltd
349E34 (base 16) Evervictory Electronic Co.Ltd
Chu-Chi management district Humen Town, DongGuan GuangDong Province, China
DongGuan GuangDong 523000
CN

BC-74-D7 (hex) HangZhou JuRu Technology CO.,LTD
BC74D7 (base 16) HangZhou JuRu Technology CO.,LTD
No.803 Room,Shuyu Building,No.98 Wenyi West Road,Hangzhou,Zhejiang,China
hangzhou zhejiang 310053
CN

28-D9-8A (hex) Hangzhou Konke Technology Co.,Ltd.
28D98A

(base 16) Hangzhou Konke Technology Co.,Ltd.
Hangzhou cuibai road 7, ROOM 422
Hangzhou Zhejiang 310012
CN

78-EB-14 (hex) SHENZHEN FAST TECHNOLOGIES CO.,LTD
78EB14 (base 16) SHENZHEN FAST TECHNOLOGIES CO.,LTD
Room 202,Building No.5,Section 30,No.2 of Kefa Road,Nanshan District,Shenzhen,P.R.China
Shenzhen Guangdong 518057
CN

3C-49-37 (hex) ASSMANN Electronic GmbH
3C4937 (base 16) ASSMANN Electronic GmbH
Auf dem Schueffel 3
Luedenscheid Germany 58513
DE

84-44-64 (hex) ServerU Inc
844464 (base 16) ServerU Inc
8100 NW 64th Street
Miami FL 33166
US

78-E9-80 (hex) RainUs Co.,Ltd
78E980 (base 16) RainUs Co.,Ltd
E-703, Digital Empire, 16, Deogyeong-daero
Suwon-si Gyeonggi-do 443-702
KR

14-29-71 (hex) NEMOA ELECTRONICS (HK) CO. LTD
142971 (base 16) NEMOA ELECTRONICS (HK) CO. LTD
ROOM 610, MINGYOU PURCHASING & DISPLAYING CENTER,
SHENZHEN GUANGDONG 518000
CN

B4-73-56
(hex) Hangzhou Treebear Networking Co., Ltd.
B47356 (base 16) Hangzhou Treebear Networking Co., Ltd.
2F,Block A, Lianhe Building, 2#, Zijinghua RD, Xihu District
Hangzhou Zhejiang 310012
CN

34-68-95 (hex) Hon Hai Precision Ind. Co.,Ltd.
346895 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

00-35-60 (hex) Rosen Aviation
003560 (base 16) Rosen Aviation
1020 Owen Loop South
Eugene Oregon 97402
US

F8-BC-41 (hex) Rosslare Enterprises Limited
F8BC41 (base 16) Rosslare Enterprises Limited
Flat 912 Wing Fat Industrial Building
Kowloon Bay Kowloon
HK

3C-B7-92 (hex) Hitachi Maxell, Ltd., Optronics Division
3CB792 (base 16) Hitachi Maxell, Ltd., Optronics Division
5030 Totsuka-cho, Totsuka-ku
Yokohama Kanagawa 244-0003
JP

3C-6A-9D (hex) Dexatek Technology LTD.
3C6A9D (base 16) Dexatek Technology
LTD.
15F, NO.81, Sec.1, Xizhi Dist.,
New Taipei City 221
TW

D8-80-39 (hex) Microchip Technology Inc.
D88039 (base 16) Microchip Technology Inc.
2355 W. Chandler Blvd.
Chandler AZ 85224
US

1C-9E-CB (hex) Beijing Nari Smartchip Microelectronics Company Limited
1C9ECB (base 16) Beijing Nari Smartchip Microelectronics Company Limited
Northern Territory Xixiaokou Rd,Haidian district,Beijing 100192,China
beijing beijing 100192
CN

DC-C6-22 (hex) BUHEUNG SYSTEM
DCC622 (base 16) BUHEUNG SYSTEM
302, 45, Jeonpa-ro, 24 Beongil
Anyang-si Gyeonggi-do 430-857
KR

90-2C-C7 (hex) C-MAX Asia Limited
902CC7 (base 16) C-MAX Asia Limited
Unit 117, 1/F, Liven House
Kwun Tong Kowloon 852
HK

94-C0-38 (hex) Tallac Networks
94C038 (base 16) Tallac Networks
6528 Lonetree Blvd.
Rocklin CA 95765
US

68-36-B5 (hex) DriveScale, Inc.
6836B5 (base 16) DriveScale, Inc.
530 Lakeside
Dr. #190
Sunnyvale CALIFORNIA 94085
US

70-FF-5C (hex) Cheerzing Communication(Xiamen)Technology Co.,Ltd
70FF5C (base 16) Cheerzing Communication(Xiamen)Technology Co.,Ltd
Room N514,North Torch Building,5 Torch Road
Xiamen Fujian 361005
CN

58-21-36 (hex) KMB systems, s.r.o.
582136 (base 16) KMB systems, s.r.o.
Dr. M. Horakove 559
Liberec Czech Republic 46006
CZ

80-09-02 (hex) Keysight Technologies, Inc.
800902 (base 16) Keysight Technologies, Inc.
1400 Fountaingrove Pkwy.
Santa Rosa CA 95403
US

04-99-E6 (hex) Shenzhen Yoostar Technology Co., Ltd
0499E6 (base 16) Shenzhen Yoostar Technology Co., Ltd
#503Tower D, HUA HAN Innovation Park,
Shenzhen Guangdong 518000
CN

C4-08-80 (hex) Shenzhen UTEPO Tech Co., Ltd.
C40880 (base 16) Shenzhen UTEPO Tech Co., Ltd.
5/F Western Block, M-8 Building,
Shenzhen Guangdong 518057
CN

F8-B2-F3 (hex) GUANGZHOU BOSMA TECHNOLOGY
CO.,LTD
F8B2F3 (base 16) GUANGZHOU BOSMA TECHNOLOGY CO.,LTD
FL.3,A5,No.11 Kaiyuan Ave., Scienc City,Guangzhou,CHINA

Guangzhou GuangDong 510530
CN

5C-96-6A (hex) RTNET
5C966A (base 16) RTNET
827-64, Yeoksam-dong, Kangnam-Gu
Seoul - 135-080
KR

88-70-EF (hex) SC Professional Trading Co., Ltd.
8870EF (base 16) SC Professional Trading Co., Ltd.
2 Soi Krungthepkreetar 21
Sapansoong Bangkok 10250
TH

BC-BC-46 (hex) SKS Welding Systems GmbH
BCBC46 (base 16) SKS Welding Systems GmbH
Marie-Curie-Str. 14
Kaiserslautern Rheinlandpfalz 67661
DE

38-B1-DB (hex) Hon Hai Precision Ind. Co.,Ltd.
38B1DB (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

34-F6-D2 (hex) Panasonic Taiwan Co.,Ltd.
34F6D2 (base 16) Panasonic Taiwan Co.,Ltd.
579,Yuan Shan Road
New Taipei Taiwan 235

30-75-12 (hex) Sony Corporation
307512
(base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

D4-8F-33 (hex) Microsoft Corporation
D48F33 (base 16) Microsoft Corporation
1 Microsoft Way
Redmond Washington 98052
FI

34-B7-FD (hex) Guangzhou Younghead Electronic Technology Co.,Ltd
34B7FD (base 16) Guangzhou Younghead Electronic Technology Co.,Ltd

Room 206,Wenzhenxin Building,Block 3, No.2 Kefa RD,Hi-Tech Park, Nanshan District, Shenzhen,China
Shenzhen Guangdong 518052
CN

B4-7C-29 (hex) Shenzhen Guzidi Technology Co.,Ltd
B47C29 (base 16) Shenzhen Guzidi Technology Co.,Ltd
South 6/F,Yingtang Building,No.5 Kejiyuan Road,Nanshan District,Shenzhen City,Guangdong Province,P.R. China
Shenzhen Guangdong 518000
CN

54-F8-76 (hex) ABB AG
54F876 (base 16) ABB AG
Trafoweg 4
Halle / Saale Saxony-Anhalt 06112
DE

84-93-0C (hex) InCoax Networks Europe AB
84930C (base 16) InCoax Networks Europe AB
Strommavagen
2
Gavle Sweden 80309
SE

1C-A2-B1 (hex) ruwido austria gmbh
1CA2B1 (base 16) ruwido austria gmbh
Koestendorferstrasse 8
Neumarkt a.W. Salzburg 5202
AT

38-4B-76 (hex) AIRTAME ApS
384B76 (base 16) AIRTAME ApS
Vestergade 20C
Copenhagen C Copenhagen 1456
DK

20-5C-FA (hex) Yangzhou ChangLian Network Technology Co,ltd.
205CFA (base 16) Yangzhou ChangLian Network Technology Co,ltd.
No.60, Shangfang Temple Road
Yangzhou City Jiangsu 225000
CN

64-00-2D (hex) Powerlinq Co., LTD
64002D (base 16) Powerlinq Co., LTD
13 PingDong Road 4 ,
Zhuhai GD 519060

98-16-EC (hex) IC Intracom

9816EC (base 16) IC Intracom
550 Commerce Blvd
Oldsmar Florida 34677
US

D0-62-A0 (hex) China Essence Technology (Zhumadian) Co., Ltd.
D062A0 (base 16) China Essence Technology (Zhumadian) Co., Ltd.
4th Floor, Administrative Service Center Office of Yicheng District
Zhumadian Henan
Province 463000
CN

90-17-9B (hex) Nanomegas
90179B (base 16) Nanomegas
BD Ed.Machtens 79/22
BXL Molenbeek 1080
BE

14-F8-93 (hex) Wuhan FiberHome Digital Technology Co.,Ltd.
14F893 (base 16) Wuhan FiberHome Digital Technology Co.,Ltd.
No.88 YouKeyuan Road
Wuhan Hubei 430074
CN

48-9D-18 (hex) Flashbay Limited
489D18 (base 16) Flashbay Limited
6 The Fountain Centre
London London SW6 2TW
GB

4C-48-DA (hex) Beijing Autelan Technology Co.,Ltd
4C48DA (base 16) Beijing Autelan Technology Co.,Ltd
1-4F, 3rd Area, 9#Building Zhongguancun Software Park
Beijing 100193
CN

4C-BB-58 (hex) Chicony Electronics Co., Ltd.
4CBB58 (base 16) Chicony Electronics Co., Ltd.
No.25, Wugong 6th Rd., Wugu Dist.,
New Taipei City 248, TAIWAN, REPUBLIC OF CHINA 248
TW

A4-12-42 (hex) NEC Platforms, Ltd.
A41242 (base 16) NEC Platforms, Ltd.
800 Shimomata
Kakegawa Shizuoka 436-8501
JP

C4-00-06
(hex) Lipi Data Systems Ltd.
C40006 (base 16) Lipi Data Systems Ltd.
Mewar Industrial Area (M.I.A)
UDAIPUR RAJASTHAN 313003
IN

D8-0C-CF (hex) C.G.V. S.A.S.
D80CCF (base 16) C.G.V. S.A.S.
18, RUE THEODORE MONOD
OSTWALD CEDEX BAS-RHIN 67541
FR

60-48-26 (hex) Newbridge Technologies Int. Ltd.
604826 (base 16) Newbridge Technologies Int. Ltd.
35/F Central Plaza
Hong Kong
CN

38-F3-3F (hex) TATSUNO CORPORATION
38F33F (base 16) TATSUNO CORPORATION
2-6,Mita 3-Chome,Minato-ku
Tokyo 108-8520
JP

B4-17-80 (hex) DTI Group Ltd
B41780 (base 16) DTI Group Ltd
50 Affleck Rd
Perth Airport Western Australia 6105
AU

90-20-3A (hex) BYD Precision Manufacture Co.,Ltd
90203A (base 16) BYD Precision Manufacture Co.,Ltd
Building 23#NO.3009 BYD RoadPingshan
Shenzhen Guangdong 518118
CN

D0-0A-AB (hex) Yokogawa Digital Computer Corporation
D00AAB (base
16) Yokogawa Digital Computer Corporation
Shinjuku MIDWEST Bldg.4-30-3
Yoyogi Shibuya-ku, Tokyo 151-0053
JP

20-A9-9B (hex) Microsoft Corporation
20A99B (base 16) Microsoft Corporation
1 Microsoft Way
Redmond Washington 98052

FI

38-26-2B (hex) UTran Technology
38262B (base 16) UTran Technology
No.130, Guoji Rd., Tucheng Dist.,
New Taipei City 23650
TW

48-0C-49 (hex) NAKAYO Inc
480C49 (base 16) NAKAYO Inc
Development Support Center 165 Higashiomuro-machi
Maebashi-shi Gunma 379-2105
JP

3C-D9-CE (hex) Eclipse WiFi
3CD9CE (base 16) Eclipse WiFi
68 S Service Rd
Melville NY 11747
US

60-77-E2 (hex) Samsung Electronics Co.,Ltd
6077E2 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

FC-19-10 (hex) Samsung Electronics Co.,Ltd
FC1910 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

3C-A1-0D
(hex) Samsung Electronics Co.,Ltd
3CA10D (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

64-6C-B2 (hex) Samsung Electronics Co.,Ltd
646CB2 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

68-05-71 (hex) Samsung Electronics Co.,Ltd
680571 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong

Gumi Gyeongbuk 730-350
KR

FC-79-0B (hex) Hitachi High Technologies America, Inc.
FC790B (base 16) Hitachi High Technologies America, Inc.
208 Fairforest Way
Greenville SC 29607
US

60-81-F9 (hex) Helium Systems, Inc
6081F9 (base 16) Helium Systems, Inc
717 Market Street
San Francisco CA 94102
US

F4-C4-47 (hex) Coagent International Enterprise Limited
F4C447 (base 16) Coagent International Enterprise Limited
FLAT/RM 2 6F CROWN TND BLDG 106 HOW MING ST KWUN TONG
Hong Kong Hong Kong 528133
CN

A4-3D-78
(hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
A43D78 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

A0-FC-6E (hex) Telegrafia a.s.
A0FC6E (base 16) Telegrafia a.s.
Lomena 7
Kosice Slovakia 040 01

20-53-CA (hex) Risk Technology Ltd
2053CA (base 16) Risk Technology Ltd
Matrix House, Merlin Court
Altrincham Cheshire WA14 5NL
GB

98-F1-70 (hex) Murata Manufacturing Co., Ltd.
98F170 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

04-C9-91 (hex) Phistek INC.
04C991 (base 16) Phistek INC.

5 Floor, No.188, Section 3, Datong Road
New Taipei City 221
TW

68-6E-48 (hex) Prophet Electronic Technology Corp.,Ltd
686E48 (base 16) Prophet Electronic Technology Corp.,Ltd
9F ,3 Building,No 1535,Hongmei Road ,Xuhui District
Shanghai Shanghai
200233
CN

14-B4-84 (hex) Samsung Electronics Co.,Ltd
14B484 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C4-C9-EC (hex) Gugaoo HK Limited
C4C9EC (base 16) Gugaoo HK Limited
Unit 04, 7/F BRIGHT WAY TOWER
Kowloon, Hongkong
HK

84-01-A7 (hex) Greyware Automation Products, Inc
8401A7 (base 16) Greyware Automation Products, Inc
308 Oriole Ct
Murphy TX 75094
US

C4-62-6B (hex) ZPT Vigantice
C4626B (base 16) ZPT Vigantice
Vigantice 266
Roznov pod Radhostem 75661
CZ

EC-17-66 (hex) Research Centre Module
EC1766 (base 16) Research Centre Module
3 Eight March 4Th Street
Moscow Moscow 125190
RU

A0-D1-2A (hex) AXPRO Technology Inc.
A0D12A (base 16) AXPRO Technology Inc.
8F, No.128, sec. 4 Chung Hsiao E. RD.,
Taipei city 10866
TW

50-C7-BF (hex) TP-LINK TECHNOLOGIES CO.,LTD.

50C7BF (base 16) TP-LINK TECHNOLOGIES
CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

20-9A-E9 (hex) Volacomm Co., Ltd
209AE9 (base 16) Volacomm Co., Ltd
15F-6., No.7, Sec.3, New Taipei Blvd., Xinzhuang Dist., New Taipei City 242., Taiwan (R.O.C)
Xinzhuang Dist. New Taipei City 242
TW

34-5D-10 (hex) Wytek
345D10 (base 16) Wytek
10 rue jean jaures
Poitiers 86000
FR

6C-14-F7 (hex) Erhardt+Leimer GmbH
6C14F7 (base 16) Erhardt+Leimer GmbH
Albert-Leimer-Platz 1
Stadtbergen 86391
DE

AC-A9-A0 (hex) Audioengine, Ltd.
ACA9A0 (base 16) Audioengine, Ltd.
1535 Dido Mt Salem Rd
Ackerman Ms 39735
US

A4-81-EE (hex) Nokia Corporation
A481EE (base 16) Nokia Corporation
Joensuunkatu 7
Salo N.A. 24101
FI

78-D6-6F (hex) Aristocrat Technologies Australia Pty. Ltd.
78D66F (base 16) Aristocrat Technologies Australia
Pty. Ltd.
Building A, Pinnacle Office Park
North Ryde N.S.W. 2113
AU

44-1E-91 (hex) ARVIDA Intelligent Electronics Technology Co.,Ltd.
441E91 (base 16) ARVIDA Intelligent Electronics Technology Co.,Ltd.
No.3 Qiliang Road.,
Danyang Jiangsu 212300
CN

B0-D5-9D (hex) Shenzhen Zowee Technology Co., Ltd
B0D59D (base 16) Shenzhen Zowee Technology Co., Ltd
Block 5 ZOWEE Technology Building),
Pingshan, Xili Town, Nanshan District Shenzhen, Guangdong 518055
CN

68-28-BA (hex) Dejai
6828BA (base 16) Dejai
PO Box 101
Toorak Vic 3142
AU

34-E4-2A (hex) Automatic Bar Controls Inc.
34E42A (base 16) Automatic Bar Controls Inc.
790 Eubanks Dr
Vacaville CA 95688
US

20-A7-87 (hex) Bointec Taiwan Corporation Limited
20A787 (base 16) Bointec Taiwan Corporation Limited
1F, A20, L790, SEC.5,
TAIPEI TAIWAN 11082
TW

A4-9F-85 (hex) Lyve Minds, Inc
A49F85 (base 16) Lyve
Minds, Inc
10001 N. De Anza Blvd, Ste 300
Cupertino CA 95014
US

04-57-2F (hex) Sertel Electronics UK Ltd
04572F (base 16) Sertel Electronics UK Ltd
Rutland House, 148 Edmund Street,
Birmingham B3 2FD
GB

D8-97-7C (hex) Grey Innovation
D8977C (base 16) Grey Innovation
255 Mary St
Richmond Victoria 3121
AU

20-5A-00 (hex) Coval
205A00 (base 16) Coval
ZA Les Petits Champs
MONTELIER Drome 26120

FR

A8-A6-68 (hex) zte corporation
A8A668 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

BC-8D-0E (hex) Nokia
BC8D0E (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

78-92-3E (hex) Nokia Corporation
78923E (base 16) Nokia Corporation
Joensuunkatu 7
Salo N.A. 24101
FI

00-EE-BD (hex) HTC Corporation
00EEBD (base 16) HTC Corporation
No. 23, Xinghua Rd., Taoyuan City
Taoyuan
County Taiwan 330
TW

A8-24-EB (hex) ZAO NPO Introtest
A824EB (base 16) ZAO NPO Introtest
Studencheskaya st. 55
Ekaterinburg Sverdlovsk region 620078
RU

48-EE-07 (hex) Silver Palm Technologies LLC
48EE07 (base 16) Silver Palm Technologies LLC
9639 DOCTOR PERRY RD STE 123N
IJAMSVILLE Maryland 21754
US

38-F7-08 (hex) National Resource Management, Inc.
38F708 (base 16) National Resource Management, Inc.
480 Neponset St. Bldg. #2
Canton MA 02021
US

E0-DB-88 (hex) Open Standard Digital-IF Interface for SATCOM Systems
E0DB88 (base 16) Open Standard Digital-IF Interface for SATCOM Systems
3090 Raritan Ave

Aberdeen Proving Ground MD 21001
US

C4-0E-45 (hex) ACK Networks,Inc.
C40E45 (base 16) ACK Networks,Inc.
Floor3,Building B.,No.1 ShangDi XinXi Rd.
Beijing 100085
CN

3C-89-A6 (hex) KAPELSE
3C89A6 (base 16) KAPELSE
5 Allee De Saint-Cloud
54600
Villers Les Nancy
FR

A4-6C-C1 (hex) LTi REEnergy GmbH
A46CC1 (base 16) LTi REEnergy GmbH
Heinrich-Hertz-Straße 18
Unna North Rhine-Westfalia 59423
DE

A8-B9-B3 (hex) ESSYS
A8B9B3 (base 16) ESSYS
Daerung Post Tower 5 15F
Seoul Gasan-Dong, Geumchen-gu 153-702
KR

6C-09-D6 (hex) Digiquest Electronics LTD
6C09D6 (base 16) Digiquest Electronics LTD
26 Park House
London NW11 7PT
GB

48-18-42 (hex) Shanghai Winaas Co. Equipment Co. Ltd.
481842 (base 16) Shanghai Winaas Co. Equipment Co. Ltd.
8F Building A, WanDa Square
Shanghai 200433
CN

44-70-98 (hex) MING HONG TECHNOLOGY (SHEN ZHEN) LIMITED
447098 (base 16) MING HONG TECHNOLOGY (SHEN ZHEN) LIMITED
Unit 906,South Block,Resources Tech Building,
Shenzhen Guangdong province 518000
CN

B0-57-06 (hex) Vallox Oy
B05706 (base 16) Vallox Oy

Myllykylantie 9-11
Loimaa 32200
FI

9C-BD-9D (hex) SkyDisk, Inc.
9CBD9D
(base 16) SkyDisk, Inc.
2F Tenjin central place,
Fukuoka-shi Fukuoka 810-0001
JP

74-C6-21 (hex) Zhejiang Hite Renewable Energy Co.,LTD
74C621 (base 16) Zhejiang Hite Renewable Energy Co.,LTD
NO1320,2th Ring Road(South)
Tongxiang City Zhejiang Province 314500
CN

D4-31-9D (hex) Sinwatec
D4319D (base 16) Sinwatec
76 Rikhard Zorge st.
Ufa Bashkortostan 450075
RU

B0-68-B6 (hex) Hangzhou OYE Technology Co. Ltd
B068B6 (base 16) Hangzhou OYE Technology Co. Ltd
Room 202 Building 12 Wenxinrenjia,
Hangzhou Zhejiang 310051
CN

2C-53-4A (hex) Shenzhen Winyao Electronic Limited
2C534A (base 16) Shenzhen Winyao Electronic Limited
7B Block A Fuqiao Building Fuhua Road
Shen Zhen Guangdong 518000
CN

A4-BB-AF (hex) Lime Instruments
A4BBAF (base 16) Lime Instruments
1187 Brittmoore Road
Houston TX 77043
US

F4-90-CA (hex) Tensorcom
F490CA (base 16) Tensorcom
5900
Pastuer Ct., Suite 105
Carlsbad CA 92008
US

28-22-46 (hex) Beijing Sinoix Communication Co., LTD
282246 (base 16) Beijing Sinoix Communication Co., LTD
Gehua Tower Room 603
Beijing 100000
CN

9C-65-F9 (hex) AcSiP Technology Corp.
9C65F9 (base 16) AcSiP Technology Corp.
3F-1, No. 207, Fusing Rd.
Taoyuan Taiwan 33066
TW

48-76-04 (hex) Private
487604 (base 16) Private

E4-4C-6C (hex) Shenzhen Guo Wei Electronic Co,. Ltd.
E44C6C (base 16) Shenzhen Guo Wei Electronic Co,. Ltd.
No 3038, Lo Sha Road, Liantang
Shenzhen Guangdong 518004
CN

A8-57-4E (hex) TP-LINK TECHNOLOGIES CO.,LTD.
A8574E (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

B8-43-E4 (hex) Vlatacom
B843E4 (base 16) Vlatacom
Milutina Milankovica 5
Belgrade Serbia 11080
RS

C4-82-4E
(hex) Changzhou Uchip Electronics Co., LTD.
C4824E (base 16) Changzhou Uchip Electronics Co., LTD.
Room1801~1802,
Shanghai 201206
CN

48-B9-77 (hex) PulseOn Oy
48B977 (base 16) PulseOn Oy
Tekniikantie 12
ESPOO Uusimaa 02150
FI

64-E6-25 (hex) Woxu Wireless Co., Ltd
64E625 (base 16) Woxu Wireless Co., Ltd

B103 Building1 No.6 Changjianghoujie
Nanjing 210000
US

10-B7-13 (hex) Private
10B713 (base 16) Private

20-89-86 (hex) zte corporation
208986 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

B8-26-6C (hex) ANOV France
B8266C (base 16) ANOV France
Chemin de Baillot
Montauban Tarn & Garonne 82000
FR

18-20-12 (hex) Aztech Associates Inc.
182012 (base 16) Aztech Associates Inc.
805 Bayridge Dr.
Kingston Ontario K7P1T5
CA

3C-30-0C (hex) Dewar Electronics Pty Ltd
3C300C
(base 16) Dewar Electronics Pty Ltd
32 Taylors Road
Croydon Victoria 3136
AU

98-FF-D0 (hex) Lenovo Mobile Communication Technology Ltd.
98FFD0 (base 16) Lenovo Mobile Communication Technology Ltd.
No.999,Qishan North 2nd Road
Xiamen Fujian 361006
CN

44-C5-6F (hex) NGN Easy Satfinder (Tianjin) Electronic Co., Ltd
44C56F (base 16) NGN Easy Satfinder (Tianjin) Electronic Co., Ltd
A4, Sifang Hi-tech Building, Nankai Hi-tech Industry Area, Ya'an Road, Nankai District
Tianjin 300113
US

B8-98-F7 (hex) Gionee Communication Equipment Co,Ltd.ShenZhen
B898F7 (base 16) Gionee Communication Equipment Co,Ltd.ShenZhen
21/F Times Technology Building, 7028 Shennan Road,
Shenzhen Guangdong 518040

CN

84-83-36 (hex) Newrun
848336 (base 16) Newrun
#803 IT Convergence Industry Bldg., Kyungpook National Univ.
Daegu N/A 702-010
KR

70-71-B3 (hex) Brain Corporation
7071B3 (base 16) Brain Corporation
5665
Morehouse Dr.
San Diego CA 92121
US

5C-2A-EF (hex) r2p Asia-Pacific Pty Ltd
5C2AEF (base 16) r2p Asia-Pacific Pty Ltd
Unit 5, 18 Lexington Avenue, Bella Vista
Sydney NSW 2153
AU

B8-7A-C9 (hex) Siemens Ltd.
B87AC9 (base 16) Siemens Ltd.
885 Mountain Hwy
Bayswater Victoria 3153
AU

F0-61-30 (hex) Advantage Pharmacy Services, LLC
F06130 (base 16) Advantage Pharmacy Services, LLC
PO Box 7
Madison MO 39130-0007
US

88-FE-D6 (hex) ShangHai WangYong Software Co., Ltd.
88FED6 (base 16) ShangHai WangYong Software Co., Ltd.
Shanghai Pudong Zhangjiang Hi-Tech Park,
Pudong Software Park 22301-283 ShangHai 201203
CN

7C-72-E4 (hex) Unikey Technologies
7C72E4 (base 16) Unikey Technologies
2250 Lee Rd
Winter Park FL 32789
US

7C-20-48 (hex) KoamTac
7C2048 (base 16) KoamTac
116 Village Boulevard

Princeton New Jersey 08540
US

8C-B7-F7
(hex) Shenzhen UniStrong Science & Technology Co., Ltd
8CB7F7 (base 16) Shenzhen UniStrong Science & Technology Co., Ltd
17/F, Global Digital Bldg, Hi-tech Park
Shen zhen Guang dong 518000
CN

08-40-27 (hex) Gridstore Inc.
084027 (base 16) Gridstore Inc.
1975 Landings Dr.
Mountain View CA 94043
US

A4-77-60 (hex) Nokia Corporation
A47760 (base 16) Nokia Corporation
Joensuunkatu 7
Salo N.A. 24101
FI

C8-56-63 (hex) Sunflex Europe GmbH
C85663 (base 16) Sunflex Europe GmbH
Konrad-Zuse-Str. 13
Schwerte NRW 58239
DE

38-BF-2F (hex) Espec Corp.
38BF2F (base 16) Espec Corp.
5-2-5 Kanokodai Minamimachi
Kobe City Hyogo 561-1514
JP

A8-75-E2 (hex) Aventura Technologies, Inc.
A875E2 (base 16) Aventura Technologies, Inc.
48 Mall Drive
Commack NY 11725
US

44-C4-A9 (hex) Opticom Communication, LLC
44C4A9 (base 16) Opticom Communication, LLC
1050 Connecticut Avenue,
NW
Washington DC 20036
US

6C-3C-53 (hex) SoundHawk Corp

6C3C53 (base 16) SoundHawk Corp
20380 Town Center Lane
Cupertino Ca 95014
US

1C-63-B7 (hex) OpenProducts 237 AB
1C63B7 (base 16) OpenProducts 237 AB
Barsebacksvagen 27
Loddekopinge 24630
SE

B4-52-7E (hex) Sony Corporation
B4527E (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

18-AA-45 (hex) Fon Technology
18AA45 (base 16) Fon Technology
C/Quintanavides, 15 Edificio 2 Planta 1

ES

94-B9-B4 (hex) Aptos Technology
94B9B4 (base 16) Aptos Technology
5F., No.65, Guangfu N. Rd., Zhongxing Vil.,
Hsinchu 303
TW

90-20-83 (hex) General Engine Management Systems Ltd.
902083 (base 16) General Engine Management Systems Ltd.
GEMS
Egham Surrey TW208RN
GB

14-B1-26 (hex) Industrial Software Co
14B126 (base 16) Industrial Software Co
85, Aleksandyr Malinov
Blvd. Office 6
Sofia 1715
BG

D8-50-E6 (hex) ASUSTek COMPUTER INC.
D850E6 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

DC-3E-F8 (hex) Nokia Corporation
DC3EF8 (base 16) Nokia Corporation
Joensuunkatu 7
Salo N.A. 24101
FI

A4-9F-89 (hex) Shanghai Rui Rui Communication Technology Co.Ltd.
A49F89 (base 16) Shanghai Rui Rui Communication Technology Co.Ltd.
Room 1130,Building No.1
ShangHai 201199
CN

E4-77-23 (hex) zte corporation
E47723 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

9C-A9-E4 (hex) zte corporation
9CA9E4 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

90-F3-B7 (hex) Kirisun Communications Co., Ltd.
90F3B7 (base 16) Kirisun Communications Co., Ltd.
3-6Flrs, ROBETA Building,
1 QiMin Road, Songping Shan Area, Science & Industry Park, Nanshan District
Shenzhen GuangDong 518057
US

18-0C-14 (hex) iSonea Limited
180C14 (base 16) iSonea Limited
125 South Tremont Street
Oceanside CA 92054
US

C4-E9-2F (hex) AB Sciex
C4E92F (base 16) AB Sciex
71 Four Valley Drive
Concord Ontario L4K 4V8
US

A8-8D-7B (hex) SunDroid Global limited.
A88D7B (base 16) SunDroid Global limited.
Room 1305B, Fiyta Science Building,
Shenzhen Guang Dong 518057
CN

70-60-DE (hex) LaVision GmbH
7060DE (base 16) LaVision GmbH
Anna-Vandenhoeck-Ring 19
Goettingen Niedersachsen 37081
DE

50-2E-5C (hex) HTC Corporation
502E5C (base 16) HTC Corporation
No. 23, Xinghua Rd., Taoyuan City
Taoyuan County Taiwan 330
TW

3C-F7-48 (hex) Shenzhen Linsn Technology Development Co.,Ltd
3CF748 (base 16) Shenzhen Linsn Technology Development Co.,Ltd
Floor 4,Block 7,Zone 2,Baiwangxin
Industrial Park
Shenzhen Guangdong 518055
CN

6C-15-F9 (hex) Nautronix Limited
6C15F9 (base 16) Nautronix Limited
Blackwood House
Aberdeen AB10 6XU
GB

64-3F-5F (hex) Exablaze
643F5F (base 16) Exablaze
Level 6
Sydney NSW 2000
AU

FC-FE-77 (hex) Hitachi Reftechno, Inc.
FCFE77 (base 16) Hitachi Reftechno, Inc.
709-2 Tomita
Tochigi-shi Tochigi-ken 329-4404
JP

70-53-3F (hex) Alfa Instrumentos Eletronicos Ltda.
70533F (base 16) Alfa Instrumentos Eletronicos Ltda.
Rua Coronel Mario de Azevedo, 138
Sao Paulo SP 02710-020
BR

38-B7-4D (hex) Fijowave Limited
38B74D (base 16) Fijowave Limited
Synergy Centre
Dublin 24

IE

50-C2-71 (hex) SECURETECH INC
50C271 (base 16) SECURETECH INC
#304, 799 Kwanyang-dong, Dongan-gu,
Anyang-ci Gyunggi-do 431-767
KR

40-7A-80 (hex) Nokia Corporation
407A80 (base 16) Nokia Corporation
Joensuunkatu 7
Salo
N.A. 24101
FI

B0-79-08 (hex) Cummings Engineering
B07908 (base 16) Cummings Engineering
145 S. 79th St., Ste. 26
Chandler AZ 85226
US

04-4F-8B (hex) Adapteva, Inc.
044F8B (base 16) Adapteva, Inc.
1666 Massachusetts Ave
Lexington MA 02420
US

9C-E7-BD (hex) Winduskorea co., Ltd
9CE7BD (base 16) Winduskorea co., Ltd
RM313, Seoul-Garden Bldg,
Seoul 152-828
KR

38-42-A6 (hex) Ingenieurbuero Stahlkopf
3842A6 (base 16) Ingenieurbuero Stahlkopf
Ingenieurbuero Stahlkopf
Glockengießerweg 2 Bielefeld 33659
DE

64-42-14 (hex) Swisscom Energy Solutions AG
644214 (base 16) Swisscom Energy Solutions AG
Solothurnerstrasse 19
Olten 4600
CH

0C-A6-94 (hex) Sunitec Enterprise Co.,Ltd
0CA694 (base 16) Sunitec Enterprise Co.,Ltd
3F.,No.98-1,Mincyuan Rd.Sindian City

Taipei County 231 231141
CN

18-44-62 (hex) Riava Networks, Inc.
184462 (base 16) Riava
Networks, Inc.
Kato Bldg. 1F, 6-12-4 Soto-Kanda
Chiyoda-ku Tokyo 1010021
JP

14-60-80 (hex) zte corporation
146080 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

9C-BB-98 (hex) Shen Zhen RND Electronic Co.,LTD
9CBB98 (base 16) Shen Zhen RND Electronic Co.,LTD
G315,Hua Chuang Da business Certer
Shen Zhen Guang Dong 518000
CN

54-FB-58 (hex) WISEWARE, Lda
54FB58 (base 16) WISEWARE, Lda
Centro Social e Administrativo da ZIV
Zona Industrial de Vagos Portugal 3840-385
PT

2C-CD-69 (hex) Aqavi.com
2CCD69 (base 16) Aqavi.com
3 Riverway
Houston TX 77056
US

8C-2F-39 (hex) IBA Dosimetry GmbH
8C2F39 (base 16) IBA Dosimetry GmbH
Bahnhofstrasse 5
Schwarzenbruck 90592
DE

C0-A0-BB (hex) D-Link International
C0A0BB (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore
Singapore 609917
SG

34-4F-3F (hex) IO-Power Technology Co., Ltd.

344F3F (base 16) IO-Power Technology Co., Ltd.
1F., No.100,
Hsinchu City 30055
TW

14-46-E4 (hex) AVISTEL
1446E4 (base 16) AVISTEL
15 rue Auguste Bartholdi
Carrieres sur Seine 78420
FR

D0-95-C7 (hex) Pantech Co., Ltd.
D095C7 (base 16) Pantech Co., Ltd.
110-1 Ongjeong-Ri, Tongjin-Eup
Gimpo-Si Gyounggi-Do 415-865
KR

D0-2C-45 (hex) littleBits Electronics, Inc.
D02C45 (base 16) littleBits Electronics, Inc.
60 E. 11th Street
New York NY 10003
US

24-80-00 (hex) Westcontrol AS
248000 (base 16) Westcontrol AS
Breivikvg 7
Joerpeland - 4100
US

1C-4B-B9 (hex) SMG ENTERPRISE, LLC
1C4BB9 (base 16) SMG ENTERPRISE, LLC
865 LOVE ST
ELK GROVE VILLAGE IL 60007
US

34-61-78 (hex) The Boeing Company
346178 (base 16) The Boeing Company
325 James S. McDonnell Blvd
Hazelwood
MO 63042-2513
US

C0-35-80 (hex) A&R TECH
C03580 (base 16) A&R TECH
Marksteinergasse 13
Vienna 1210
AT

D0-8A-55 (hex) Skullcandy
D08A55 (base 16) Skullcandy
1441 Ute blvd.
Park City Utah 84098
US

CC-72-0F (hex) Viscount Systems Inc.
CC720F (base 16) Viscount Systems Inc.
4585 Tillicum Street
Burnaby British Columbia V5J 5K9
CA

74-2B-62 (hex) FUJITSU LIMITED
742B62 (base 16) FUJITSU LIMITED
403, Kosugi-cho 1-chome, Nakahara-ku
Kawasaki Kanagawa 211-0063
JP

B4-A8-2B (hex) Histar Digital Electronics Co., Ltd.
B4A82B (base 16) Histar Digital Electronics Co., Ltd.
Room 616,Block A,
Shenzhen Baoan 518133
CN

28-4D-92 (hex) Luminator
284D92 (base 16) Luminator
900 Klein Road
Plano Texas 75074
US

94-0B-D5 (hex) Himax Technologies, Inc
940BD5 (base 16) Himax Technologies, Inc
No.26, Zilian Rd., Xinshi Dist.
Tainan City 741
TW

F4-5F-69
(hex) Matsufu Electronics distribution Company
F45F69 (base 16) Matsufu Electronics distribution Company
Suites 1601~3, Kinwick Centre, 32 Hollywood Road, Hong Kong
Hong Kong
HK

28-A1-EB (hex) ETEK TECHNOLOGY (SHENZHEN) CO.,LTD
28A1EB (base 16) ETEK TECHNOLOGY (SHENZHEN) CO.,LTD
A505-506A509 Room,A5 Floor, Academy Of International Technology Innovation, Keji Nan 10th Road, Hi-Tech Industrial Park, Shenzhen, P.R.C.
SHENZHEN GUANGDONG 518057

CN

B8-F8-28 (hex) Changshu Gaoshida Optoelectronic Technology Co. Ltd.
B8F828 (base 16) Changshu Gaoshida Optoelectronic Technology Co. Ltd.
Baimao Industrail Park Changshu Jiangsu
Changshu Jiangsu 215500
CN

3C-1A-57 (hex) Cardiopulmonary Corp
3C1A57 (base 16) Cardiopulmonary Corp
200 Cascade Blvd
Milford CT 06460
US

54-1B-5D (hex) Techno-Innov
541B5D (base 16) Techno-Innov
35 rue du champ Blanc
Meyzieu Rhône 69330
FR

08-35-71
(hex) CASwell INC.
083571 (base 16) CASwell INC.
8F,No.242,Bo-Ai St., Shu-Lin Dist.,New Taipei City ,Taiwan.
New Taipei City Taiwan 23845
TW

98-76-B6 (hex) Adafruit
9876B6 (base 16) Adafruit
150 Varick st
New York NY 10013
US

50-3C-C4 (hex) Lenovo Mobile Communication Technology Ltd.
503CC4 (base 16) Lenovo Mobile Communication Technology Ltd.
No.999,Qishan North 2nd Road,Information&Optoelectronics Park,
Xiamen Fujian 361006
US

E0-D1-E6 (hex) Aliph dba Jawbone
E0D1E6 (base 16) Aliph dba Jawbone
99 Rhode Island Street
San Francisco California 94103
US

04-1B-94 (hex) Host Mobility AB
041B94 (base 16) Host Mobility AB
Anders Personsgatan 12

Gothenburg Vastra Gotaland 41664
SE

A0-CE-C8 (hex) CE LINK LIMITED
A0CEC8 (base 16) CE LINK LIMITED
2/F, Building G, Licheng Tech. Ind. Zone
Shenzhen Guangdong 518104
CN

90-7A-28 (hex) Beijing Morncloud Information
And Technology Co. Ltd.
907A28 (base 16) Beijing Morncloud Information And Technology Co. Ltd.
A#1107, XiaoYun center
Chaoyang District Beijing 100125
CN

78-FE-41 (hex) Socus networks
78FE41 (base 16) Socus networks
2F.-2, No.215, Sec. 2, Chengde Rd., Datong Dist.,
Taipei City 103
TW

20-57-21 (hex) Salix Technology CO., Ltd.
205721 (base 16) Salix Technology CO., Ltd.
5F., No. 16, Lane 77, Hsing Ai Road
Taipei 114
TW

88-36-12 (hex) SRC Computers, LLC
883612 (base 16) SRC Computers, LLC
4240 N. Nevada Avenue
Colorado Springs CO 80907
US

D8-2D-9B (hex) Shenzhen G.Credit Communication Technology Co., Ltd
D82D9B (base 16) Shenzhen G.Credit Communication Technology Co., Ltd
4/F, Suite A, XinNengYuan Building, 2239 Nanhai Rd., Nanshan Dist., Shenzhen, Guangdong,China
Shenzhen Guangdong 518054
CN

70-9B-FC (hex) Bryton Inc.
709BFC (base 16) Bryton Inc.
6F., No. 100,
Zhouzi St., Neihu Dist.
Taipei City 11493
US

AC-E4-2E (hex) SK hynix

ACE42E (base 16) SK hynix
SK u-Tower, 25-1, Jeongja-dong, Bundang-gu
Seongnam-si Gyeonggi-do 463-844
KR

2C-7B-84 (hex) OOO Petr Telegin
2C7B84 (base 16) OOO Petr Telegin
Gagarin avenue, 37, build P1
Nizhny Novgorod 603009
RU

A4-C0-C7 (hex) ShenZhen Hitom Communication Technology Co..LTD
A4C0C7 (base 16) ShenZhen Hitom Communication Technology Co..LTD
Room 110,Unit A,No.1 Chuangye Building,43# YanShan Road,Shekou Area
ShenZhen GuangDong 518052
CN

18-10-4E (hex) CEDINT-UPM
18104E (base 16) CEDINT-UPM
Campus de Montegancedo
Madrid
ES

30-61-12 (hex) PAV GmbH
306112 (base 16) PAV GmbH
Georg-Kaindl-Straße 11
Otterfing 83624
DE

78-9F-4C (hex) HOERBIGER Elektronik GmbH
789F4C (base 16) HOERBIGER Elektronik GmbH
Justinus-Kernerstr. 7
Ammerbuch Baden-Wuerttemberg D-72119
DE

FC-4B-BC
(hex) Sunplus Technology Co., Ltd.
FC4BBC (base 16) Sunplus Technology Co., Ltd.
No.19, Innovation First Road
Hsinchu City 300
TW

9C-14-65 (hex) Edata Elektronik San. ve Tic. A..
9C1465 (base 16) Edata Elektronik San. ve Tic. A..
Tantavi Mahallesi Menteolu Cad.
stanbul - 34764
TR

4C-55-CC (hex) Zentri Pty Ltd
4C55CC (base 16) Zentri Pty Ltd
Level 9, 191 Clarence St,
Sydney NSW 2000
AU

00-C5-DB (hex) Datatech Sistemas Digitales Avanzados SL
00C5DB (base 16) Datatech Sistemas Digitales Avanzados SL
Cardenal Herrera Oria 165
Madrid 28034
ES

8C-F9-45 (hex) Power Automation pte Ltd
8CF945 (base 16) Power Automation pte Ltd
28 Ayer Rajah Crescent
139959
SG

F8-42-FB (hex) Yasuda Joho Co.,ltd.
F842FB (base 16) Yasuda Joho Co.,ltd.
1-11-1
Minato-ku Tokyo 105-0022
JP

88-73-98 (hex) K2E Tekpoint
887398 (base 16) K2E Tekpoint
201,Winstower,278-51,Sungsoo2ga
3dong,Sungdong-gu,Seoul,S.Korea,133-123
Seoul Sungdong-gu 133-123
KR

58-F3-87 (hex) Airios
58F387 (base 16) Airios
Peter Zuidlaan 10
Veldhoven 5502 NH
NL

3C-97-7E (hex) IPS Technology Limited
3C977E (base 16) IPS Technology Limited
7 Floor,E block,Dong Hai Wang Building
Shenzhen Guangodng 518000
CN

A4-FB-8D (hex) Hangzhou Dunchong Technology Co.Ltd
A4FB8D (base 16) Hangzhou Dunchong Technology Co.Ltd
Yitian Square 1#401A
hangzhou zhejiang 310051
US

10-7A-86 (hex) U&U ENGINEERING INC.
107A86 (base 16) U&U ENGINEERING INC.
No.15, Gaoyang S. Rd
Taoyuan County 325-44
TW

40-BD-9E (hex) Physio-Control, Inc
40BD9E (base 16) Physio-Control, Inc
11811 Willows Rd NE
Redmond WA 98052
US

6C-57-79 (hex) Aclima, Inc.
6C5779 (base 16) Aclima, Inc.
10 Lombard Street
San Francisco California 94111
US

C0-DA-74 (hex) Hangzhou Sunyard
Technology Co., Ltd.
C0DA74 (base 16) Hangzhou Sunyard Technology Co., Ltd.
No.3888 Jiangnan Ave, Binjiang District,
Hangzhou Zhejiang 310053
CN

88-23-64 (hex) Watchnet DVR Inc
882364 (base 16) Watchnet DVR Inc
Unit 5 - 351 Ferrier St.
Markham Ontario L3R 5Z2
CA

2C-92-2C (hex) Kishu Giken Kogyou Company Ltd,.
2C922C (base 16) Kishu Giken Kogyou Company Ltd,.
466 Nunohiki
Wakayama city Wakayama prefecture 6410015
JP

D8-FE-E3 (hex) D-Link International
D8FEE3 (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

50-A0-BF (hex) Alba Fiber Systems Inc.
50A0BF (base 16) Alba Fiber Systems Inc.
265 E. Merrick Rd
Valley Stream NY 11580

US

B8-36-D8 (hex) Videoswitch
B836D8 (base 16) Videoswitch
Uspallata 3579
Buenos Aires Capital Federal C1437JCS
AR

04-3D-98 (hex) ChongQing QingJia Electronics CO.,LTD
043D98
(base 16) ChongQing QingJia Electronics CO.,LTD
No.1,DianCe Village JiangBei District
Chongqing city 400020
CN

E0-3E-4A (hex) Cavanagh Group International
E03E4A (base 16) Cavanagh Group International
9180 Four Mile Creek Rd.
Gainesville GA 30506
US

F4-CD-90 (hex) Vispiron Rotec GmbH
F4CD90 (base 16) Vispiron Rotec GmbH
Frankfurter Ring 224
München Bayern 80807
DE

54-21-60 (hex) Alula
542160 (base 16) Alula
2340 Energy Park Drive
St. Paul MN 55108
US

80-6C-8B (hex) KAESER KOMPRESSOREN AG
806C8B (base 16) KAESER KOMPRESSOREN AG
Carl-Kaeser-Strasse 26
Coburg Bavaria 96450
DE

58-1C-BD (hex) Affinegy
581CBD (base 16) Affinegy
1705 S. Capital of Texas Hwy. Ste 310
Austin Texas 78746
US

28-4F-CE (hex) Liaoning Wontel Science and Technology Development Co.,Ltd.
284FCE (base 16) Liaoning Wontel Science and Technology Development Co.,Ltd.
A704

Floor TaiHe building
Shenyang Liaoning 110000
CN

DC-6F-00 (hex) Livescribe, Inc.
DC6F00 (base 16) Livescribe, Inc.
7677 Oakport Street
Oakland California 94621
US

54-E3-B0 (hex) JVL Industri Elektronik
54E3B0 (base 16) JVL Industri Elektronik
Blokken 42
Birkeroed Sjaelland DK-3460
DK

10-01-CA (hex) Ashley Butterworth
1001CA (base 16) Ashley Butterworth
P.O. Box 3410
Santa Clara CA 95055
US

24-6A-AB (hex) IT-IS International
246AAB (base 16) IT-IS International
1 Wainstones Court
Middlesbrough Cleveland TS9 5JY
GB

18-D6-CF (hex) Kurth Electronic GmbH
18D6CF (base 16) Kurth Electronic GmbH
Mühleweg 11
Eningen 72800
DE

F4-81-39 (hex) CANON INC.
F48139 (base 16) CANON INC.
30-2 Shimomaruko 3-chome,
Ohta-ku Tokyo 146-8501
JP

18-36-FC (hex) Elecsys International Corporation
1836FC (base 16) Elecsys International Corporation
846
N Mart-Way Court
Olathe KS 66061
US

A4-D0-94 (hex) VIVAVIS AG

A4D094 (base 16) VIVAVIS AG
Nobelstr. 18
Ettlingen D-76375
DE

2C-94-64 (hex) Cincoze Co., Ltd.
2C9464 (base 16) Cincoze Co., Ltd.
7F., No. 4 Aly. 1 Ln. 235, Baociao Rd.,
New Taipei City 23145
US

80-4B-20 (hex) Ventilation Control
804B20 (base 16) Ventilation Control
Kronenstrasse 34
Villingen-Schwenningen Baden-Wuerttemberg 78054
DE

28-79-94 (hex) Realplay Digital Technology(Shenzhen) Co.,Ltd
287994 (base 16) Realplay Digital Technology(Shenzhen) Co.,Ltd
7/F,Building E,SDG Information Port ,Kefeng Rd.,Hi-tech
Shenzhen Guangdong 518057
CN

94-B8-C5 (hex) RuggedCom Inc.
94B8C5 (base 16) RuggedCom Inc.
300 Applewood Crescent
Concord Ontario L4K 5C7
CA

60-4A-1C (hex) SUYIN Corporation
604A1C (base 16) SUYIN Corporation
No.377,Fude 1st Rd
Taipei 221
TW

08-27-19 (hex) APS systems/electronic
AG
082719 (base 16) APS systems/electronic AG
Neumatt 4
Niederbuchsiten SO 4626
CH

50-5A-C6 (hex) GUANGDONG SUPER TELECOM CO.,LTD.
505AC6 (base 16) GUANGDONG SUPER TELECOM CO.,LTD.
4/F,NO.1025-1027 Gaopu Rd
Guangzhou Guangdong 510663
CN

30-65-EC (hex) Wistron (ChongQing)
3065EC (base 16) Wistron (ChongQing)
No.F08/F09,D zone,Konggang Functional Zone
ChongQing 401120
CN

B8-63-BC (hex) ROBOTIS, Co, Ltd
B863BC (base 16) ROBOTIS, Co, Ltd
#1506 Ace high End Tower 3, 371-50
Seoul 153-787
KR

98-0D-2E (hex) HTC Corporation
980D2E (base 16) HTC Corporation
No. 23, Xinghua Rd., Taoyuan City
Taoyuan County Taiwan 330
TW

9C-79-AC (hex) Suntec Software(Shanghai) Co., Ltd.
9C79AC (base 16) Suntec Software(Shanghai) Co., Ltd.
17F New Hualian Mansion
Shanghai 200020
CN

C4-19-EC (hex) Qualisys AB
C419EC (base 16) Qualisys AB
Packhusgatan 6
Gothenburg
41113
SE

54-2C-EA (hex) PROTECTRON
542CEA (base 16) PROTECTRON
140 zone industriel
CASABLANCA 18600
MA

D4-64-F7 (hex) CHENGDU USEE DIGITAL TECHNOLOGY CO., LTD
D464F7 (base 16) CHENGDU USEE DIGITAL TECHNOLOGY CO., LTD
NO.6 CHUANGYE ROAD
CHENGDU SICHUAN 610041
CN

60-E0-0E (hex) SHINSEI ELECTRONICS CO LTD
60E00E (base 16) SHINSEI ELECTRONICS CO LTD
2-6-25
Amagasaki Hyogo 660-0805
JP

54-54-14 (hex) Digital RF Corea, Inc
545414 (base 16) Digital RF Corea, Inc
2 Floor, SeMin B/D, 201, Jangdari-ro
Suwon-si Gyeonggi-do 442-833
KR

24-EB-65 (hex) SAET I.S. S.r.l.
24EB65 (base 16) SAET I.S. S.r.l.
Via Leinì 1/B
San Maurizio C.se TO 10077
IT

E8-94-F6 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
E894F6 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong
518057
CN

DC-82-5B (hex) JANUS, spol. s r.o.
DC825B (base 16) JANUS, spol. s r.o.
Sarajevska 8
Prague Czech Republic 12000
CZ

9C-A5-77 (hex) Osorno Enterprises Inc.
9CA577 (base 16) Osorno Enterprises Inc.
976 Elgin Ave
Winnipeg MB R3E 1B4
CA

C0-43-01 (hex) Epec Oy
C04301 (base 16) Epec Oy
P.O. Box 194
Seinäjoki 60101
FI

E0-7C-62 (hex) Whistle Labs, Inc.
E07C62 (base 16) Whistle Labs, Inc.
251 Rhode Island Street, Suite 211
San Francisco CA 94013
US

94-98-A2 (hex) Shanghai LISTEN TECH.LTD
9498A2 (base 16) Shanghai LISTEN TECH.LTD
7F,A#,NO.3699,Gonghexin Road
SHANGHAI SHANGHAI 200435

CN

DC-2B-CA (hex) Zera GmbH
DC2BCA (base 16) Zera GmbH
Hauptstrasse 392
Koenigswinter NRW 53639
DE

5C-84-86 (hex) Brightsource Industries Israel LTD
5C8486 (base 16) Brightsource Industries Israel LTD
11 Kiryat Mada st
Jerusalem 91450
IL

BC-BA-E1
(hex) AREC Inc.
BCBAE1 (base 16) AREC Inc.
3F, No.367, Sec.2, Wenhua Rd
Banqiao Dist New Taipei City 220
TW

18-FA-6F (hex) ISC applied systems corp
18FA6F (base 16) ISC applied systems corp
295 Labrosse
Pointe-claire QC H9R-1A3
CA

60-1E-02 (hex) EltexAlatau
601E02 (base 16) EltexAlatau
Ibragimova 9
Almaty Province 050032
KZ

F0-7F-0C (hex) Leopold Kostal GmbH &Co. KG
F07F0C (base 16) Leopold Kostal GmbH &Co. KG
An der Bellmerei 10
Luedenscheid NRW D-58513
DE

4C-62-55 (hex) SANMINA-SCI SYSTEM DE MEXICO S.A. DE C.V.
4C6255 (base 16) SANMINA-SCI SYSTEM DE MEXICO S.A. DE C.V.
Carretera Guadalajara-chapala km 15.5 #45
TLAJOMULCO JALISCO 45640
MX

50-CD-32 (hex) NanJing Chaoran Science & Technology Co.,Ltd.
50CD32 (base 16) NanJing Chaoran Science & Technology Co.,Ltd.
Block C,Floor 5,Tianzexingwang Building

NanJing City JiangSu Province 210019
CN

E0-ED-C7
(hex) Shenzhen Friendcom Technology Development Co., Ltd
E0EDC7 (base 16) Shenzhen Friendcom Technology Development Co., Ltd
6/F,17 Building, Guangqian Industrial Park,
Nanshan District, Shen Zhen CIty Guang Dong 518055
CN

D4-A4-99 (hex) InView Technology Corporation
D4A499 (base 16) InView Technology Corporation
8900 Shoal Creek Blvd
Austin TX 78757
US

B4-DD-15 (hex) ControlThings Oy Ab
B4DD15 (base 16) ControlThings Oy Ab
Werner Söderströmin katu 24
Porvoo Finland 06100
FI

E0-C6-B3 (hex) MilDef AB
E0C6B3 (base 16) MilDef AB
Box 22079
Helsingborg Skane 25022
SE

18-84-10 (hex) CoreTrust Inc.
188410 (base 16) CoreTrust Inc.
14F Saman Bldg. 945 Daechi-dong
Seoul Republic of Korea 135-280
KR

FC-22-9C (hex) Han Kyung I Net Co.,Ltd.
FC229C (base 16) Han Kyung I Net Co.,Ltd.
3F,Seung Eun Bldg
Yu Seong-Gu Dae Jeon 305-335
KR

18-32-A2 (hex) LAON
TECHNOLOGY CO., LTD.
1832A2 (base 16) LAON TECHNOLOGY CO., LTD.
#1212 HO, BIZ CENTER, SKn TECHNOPARK
SEONGNAM KYOUNGGI DO 462-721
KR

74-D0-2B (hex) ASUSTek COMPUTER INC.

74D02B (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

A0-1C-05 (hex) NIMAX TELECOM CO.,LTD.
A01C05 (base 16) NIMAX TELECOM CO.,LTD.
1F. NO.308-7,SEC.1,DATONG RD
NEW TAIPEI CITY 221
TW

08-48-2C (hex) Raycore Taiwan Co., LTD.
08482C (base 16) Raycore Taiwan Co., LTD.
3F-5, No.351, Sec.2, Zongshan Rd
New Taipei city 23504
TW

64-72-D8 (hex) GooWi Technology Co.,Limited
6472D8 (base 16) GooWi Technology Co.,Limited
Unit C8.,9/F,Hongming Fatoty Building
99 How Ming Street Kwun Tong 999077
HK

84-62-23 (hex) Shenzhen Coship Electronics Co., Ltd.
846223 (base 16) Shenzhen Coship Electronics Co., Ltd.
Rainbow Bldg., North, Hi-Tech Industrial Park
Shenzhen
Guangdong 518057
CN

1C-FA-68 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
1CFA68 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

DC-1D-D4 (hex) Microstep-MIS spol. s r.o.
DC1DD4 (base 16) Microstep-MIS spol. s r.o.
Cavojskeho 1
Bratislava 84104
SK

FC-DD-55 (hex) Shenzhen WeWins wireless Co.,Ltd
FCDD55 (base 16) Shenzhen WeWins wireless Co.,Ltd
6/F.,B Wing,Yuehai Piaza,Nanhai Road
Shenzhen Guangdong 518000
CN

B0-17-43 (hex) EDISON GLOBAL CIRCUITS LLC
B01743 (base 16) EDISON GLOBAL CIRCUITS LLC
1475 Sawdust Rd
Spring TX 77380-2974
US

F8-2E-DB (hex) RTW GmbH & Co. KG
F82EDB (base 16) RTW GmbH & Co. KG
Am Wassermann 25
Cologne NRW 50829
DE

C0-4A-00 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
C04A00 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors
1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

04-5F-A7 (hex) Shenzhen Yichen Technology Development Co.,LTD
045FA7 (base 16) Shenzhen Yichen Technology Development Co.,LTD
5/F Honghualing 2nd Industry Zone,Xili Town
Shenzhen Guangdong 518055
CN

08-79-99 (hex) AIM GmbH
087999 (base 16) AIM GmbH
Sasbacherstraße 2
Freiburg BW 79111
US

C0-11-A6 (hex) Fort-Telecom ltd.
C011A6 (base 16) Fort-Telecom ltd.
Hrustalnaya 8a
Perm 614107
RU

C0-B8-B1 (hex) BitBox Ltd
C0B8B1 (base 16) BitBox Ltd
Whitney Road
Basingstoke Hampshire RG24 8NS
GB

10-5F-06 (hex) Actiontec Electronics, Inc
105F06 (base 16) Actiontec Electronics, Inc
3301 Olcott St.
Santa Clara CA 95054
US

18-53-E0 (hex) Hanyang Digitech Co.Ltd
1853E0 (base 16) Hanyang Digitech Co.Ltd
103, BANWOL-DONG, HWASEONG-SI, KYUNGGI-DO, KOREA
HWASEONG
KYUNGGI 445-330
KR

C0-88-5B (hex) SnD Tech Co., Ltd.
C0885B (base 16) SnD Tech Co., Ltd.
1140-4 Triple Tower C-406
Bucheon Si Gyeonggi-Do 420-852
KR

3C-FB-96 (hex) Emcraft Systems LLC
3CFB96 (base 16) Emcraft Systems LLC
2191 S. El Camino Real
Oceanside CA 92054
US

08-1F-3F (hex) WondaLink Inc.
081F3F (base 16) WondaLink Inc.
2F, No. 23, R&D Road 2
Hsinchu 300
TW

40-51-6C (hex) Grandex International Corporation
40516C (base 16) Grandex International Corporation
4F, 525 Chung Cheng Road
Hsin Tien Dist. New Taipei City 231
TW

D0-BE-2C (hex) CNSLink Co., Ltd.
D0BE2C (base 16) CNSLink Co., Ltd.
room 807, Jungang Induspia 5
Seongnam Gyeonggi 462-807
US

00-C1-4F (hex) DDL Co,.ltd.
00C14F (base 16) DDL Co,.ltd.
6F AFT BLDG.
SAPPORO HOKKAIDO 060-0035
JP

2C-26-C5 (hex) zte corporation
2C26C5 (base 16) zte corporation
12/F.,zte

R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

80-7B-1E (hex) Corsair Memory, Inc.
807B1E (base 16) Corsair Memory, Inc.
47100 Bayside Parkway
Fremont CA 94538
US

B4-AB-2C (hex) MtM Technology Corporation
B4AB2C (base 16) MtM Technology Corporation
12F, No. 186, Fuxing Road
Taoyuan City Taoyuan County 33066
TW

74-37-2F (hex) Tongfang Shenzhen Cloudcomputing Technology Co.,Ltd
74372F (base 16) Tongfang Shenzhen Cloudcomputing Technology Co.,Ltd
4,1 Building,FinanceBase,NO.8KeFaRoad,Science park
ShenZhen City GuangDong 518057
US

E8-A3-64 (hex) Signal Path International / Peachtree Audio
E8A364 (base 16) Signal Path International / Peachtree Audio
2045 120th Ave NE
Bellevue Washington 98005
US

BC-51-FE (hex) Swann communications Pty Ltd
BC51FE (base 16) Swann communications Pty Ltd
Unit 13
Port Melbourne Victoria 3207
AU

E0-CE-C3 (hex) ASKEY
COMPUTER CORP
E0CEC3 (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585
TW

F0-21-9D (hex) Cal-Comp Electronics & Communications Company Ltd.
F0219D (base 16) Cal-Comp Electronics & Communications Company Ltd.
No.147, Sec. 3, Beishen Rd
Shenkeng Dist New Taipei City ---
TW

18-17-25 (hex) Cameo Communications, Inc.

181725 (base 16) Cameo Communications, Inc.
No. 276, Sinhu 1st Rd., Neihu District,
Taipei 114
TW

84-62-A6 (hex) EuroCB (Phils), Inc.
8462A6 (base 16) EuroCB (Phils), Inc.
SFB No.2
Lapulapu CIty Cebu 6015
PH

E4-F3-65 (hex) Time-O-Matic, Inc.
E4F365 (base 16) Time-O-Matic, Inc.
1015 Maple St.
Danville IL 61832
US

DC-C0-DB (hex) Shenzhen Kaiboer Technology Co., Ltd.
DCC0DB (base 16) Shenzhen Kaiboer Technology Co., Ltd.
4/F, No. 11 Bldg., Yusheng Industrial Park, No. 467, Xixiang Sec.,
Shenzhen Guangdong
518126
CN

AC-5D-10 (hex) Pace Americas
AC5D10 (base 16) Pace Americas
1764 Automation Parkway
San Jose Ca 95131
US

88-F4-90 (hex) Jetmobile Pte Ltd
88F490 (base 16) Jetmobile Pte Ltd
541 Orchard Road
Singapore 238881
SG

FC-62-6E (hex) Beijing MDC Telecom
FC626E (base 16) Beijing MDC Telecom
26 Xiaoyun Road #B2808, Chaoyang
Beijing 100016
CN

94-C9-62 (hex) Teseq AG
94C962 (base 16) Teseq AG
Nordstrasse 11F
Luterbach Solothurn 4542
CH

DC-2A-14 (hex) Shanghai Longjing Technology Co.
DC2A14 (base 16) Shanghai Longjing Technology Co.
689 Chundong Road, Minhang District
Shanghai 201108
CN

80-8B-5C (hex) Shenzhen Runhuicheng Technology Co., Ltd
808B5C (base 16) Shenzhen Runhuicheng Technology Co., Ltd
315.3rd Floor Taoyuan Commercial Building A2 ridgepole Guang Qian Industrial Estate XiLi
Shenzhen Guangdong 518052
CN

C0-5E-6F (hex) V. Stonkaus
firma Kodinis Raktas
C05E6F (base 16) V. Stonkaus firma Kodinis Raktas
Ateities 10
Vilnius 08303
LT

68-86-E7 (hex) Orbotix, Inc.
6886E7 (base 16) Orbotix, Inc.
1155 Canyon Blvd.
Boulder CO 80302
US

D8-19-CE (hex) Telesquare
D819CE (base 16) Telesquare
670, Sampyeong-dong, Bundang-gu
Seongnam-si Gyeonggi-do 463-400
KR

1C-91-79 (hex) Integrated System Technologies Ltd
1C9179 (base 16) Integrated System Technologies Ltd
Suite 5 Birch House
Aldridge West Midlands WS9 0NF
GB

38-F5-97 (hex) home2net GmbH
38F597 (base 16) home2net GmbH
Im Haslet 42
Woerth/Donau Bayern 93086
DE

6C-B3-11 (hex) Shenzhen Lianrui Electronics Co.,Ltd
6CB311 (base 16) Shenzhen Lianrui Electronics Co.,Ltd
Block C4 XinTang Industrial Park
Shenzhen Guangdong 518000
CN

D8-D5-B9 (hex) Rainforest Automation, Inc.
D8D5B9 (base 16) Rainforest Automation, Inc.
200 – 311 Pender
St. W
Vancouver British Columbia V6B 1T3
CA

24-11-D0 (hex) Chongqing Ehs Science and Technology Development Co.,Ltd.
2411D0 (base 16) Chongqing Ehs Science and Technology Development Co.,Ltd.
Saturn Business Center C3-15-7,Starlight No.5 Street
Chongqing 400060
CN

B4-61-FF (hex) Lumigon A/S
B461FF (base 16) Lumigon A/S
Baadehavnsgade 2A
Copenhagen SV Denmark 2450
DK

A0-A1-30 (hex) DLI Taiwan Branch office
A0A130 (base 16) DLI Taiwan Branch office
No.18-5, No.738. Zhong Zheng Rd
Taipei New City 23511
TW

BC-39-A6 (hex) CSUN System Technology Co.,LTD
BC39A6 (base 16) CSUN System Technology Co.,LTD
4-16-22,Chiyogaoka
Kawasaki-shi Kanagawa Ken 2150005
JP

EC-B5-41 (hex) SHINANO E and E Co.Ltd.
ECB541 (base 16) SHINANO E and E Co.Ltd.
5511-6 Wada
Matsumoto City Nagano 390-1242
JP

E4-C1-46 (hex) Objetivos y Servicios de Valor A
E4C146 (base 16) Objetivos y Servicios
de Valor A
C/ Monte Esquinza, 28, 1D
Madrid 28017
ES

D4-00-57 (hex) MC Technologies GmbH
D40057 (base 16) MC Technologies GmbH
Kabelkamp 2

Hannover Germany 30179
DE

A8-75-D6 (hex) FreeTek International Co., Ltd.
A875D6 (base 16) FreeTek International Co., Ltd.
Unit D, 15/F, Tai Ping Ind.Ctr., Blk 2, 55 Ting Kok Rd.,
Hong Kong Hong KOng 1111
HK

10-A7-43 (hex) SK Mtek Limited
10A743 (base 16) SK Mtek Limited
Flat/Rm 1808, 18F Tower II, Admirality
Hong Kong
HK

54-7F-A8 (hex) TELCO systems, s.r.o.
547FA8 (base 16) TELCO systems, s.r.o.
Zvolenska cesta 20
Banska Bystrica Slovak republic 974 05
SK

54-74-E6 (hex) Webtech Wireless
5474E6 (base 16) Webtech Wireless
215-4299 Canada Way
Burnaby BC V5G 1H3
CA

C4-6D-F1 (hex) DataGravity
C46DF1 (base 16) DataGravity
10 Tara Blvd
Nashua NH 03062
US

30-21-5B (hex) Shenzhen Ostar Display
Electronic Co.,Ltd
30215B (base 16) Shenzhen Ostar Display Electronic Co.,Ltd
Room218, CASTD Incubator Building, High-tech South Street No.1,
Shenzhen Guangdong 518057
CN

CC-59-3E (hex) Sensium Healthcare Limited
CC593E (base 16) Sensium Healthcare Limited
115 MILTON PARK
ABINGDON OXFORDSHIRE OX14 4SA
GB

34-FA-40 (hex) Guangzhou Robustel Technologies Co., Limited
34FA40 (base 16) Guangzhou Robustel Technologies Co., Limited

B301, Tianchang Shangmaoyuan
Guangzhou Guangdong 510660
CN

1C-5A-6B (hex) Philips Electronics Nederland BV
1C5A6B (base 16) Philips Electronics Nederland BV
PO BOX 80045
Eindhoven 5600 JZ
NL

84-C8-B1 (hex) Incognito Software Systems Inc.
84C8B1 (base 16) Incognito Software Systems Inc.
#500 - 375 Water St
Vancouver BC - British Columbia V6B 5C6
CA

30-D3-57 (hex) Logosol, Inc.
30D357 (base 16) Logosol, Inc.
5041 ROBERT J. MATHEWS PARKWAY
EL
DORADO HILLS California 95762
US

94-FD-2E (hex) Shanghai Uniscope Technologies Co.,Ltd
94FD2E (base 16) Shanghai Uniscope Technologies Co.,Ltd
5th Floor, Building 10,
Shanghai 200233
CN

A0-BA-B8 (hex) Pixon Imaging
A0BAB8 (base 16) Pixon Imaging
9530 Towne Center Dr.
San Diego CA 92121
US

74-E4-24 (hex) APISTE CORPORATION
74E424 (base 16) APISTE CORPORATION
1-4-16 Dojimahama, Kita-ku
Osaka Japan 530-0004
JP

D4-10-CF (hex) Huanshun Network Science and Technology Co., Ltd.
D410CF (base 16) Huanshun Network Science and Technology Co., Ltd.
No. 218-1, North Binjiang Road
yuyao zhejiang 315400
CN

5C-E0-F6 (hex) NIC.br- Nucleo de Informacao e Coordenacao do Ponto BR

5CE0F6 (base 16) NIC.br- Nucleo de Informacao e Coordenacao do Ponto BR
Av. das Nacoes Unidas, 11541, 7o andar
São Paulo SP 04578-000
BR

C8-3D-97 (hex) Nokia Corporation
C83D97 (base 16) Nokia Corporation
Elektroniikkatie
10
Oulu 90570
FI

0C-F3-61 (hex) Java Information
0CF361 (base 16) Java Information
Woolim Lions Valley 2nd B-1305
Seongnam-Si Gyounggi-Do 462-120
KR

B0-35-8D (hex) Nokia Corporation
B0358D (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

F8-E4-FB (hex) Actiontec Electronics, Inc
F8E4FB (base 16) Actiontec Electronics, Inc
3301 Olcott St.
Santa Clara CA 95054
US

8C-4A-EE (hex) GIGA TMS INC
8C4AEE (base 16) GIGA TMS INC
9F-2 NO.31 Lane 169 Kang-ning Street, Hsi-Chih
Taipei County 221 221
TW

34-C9-9D (hex) EIDOLON COMMUNICATIONS TECHNOLOGY CO. LTD.
34C99D (base 16) EIDOLON COMMUNICATIONS TECHNOLOGY CO. LTD.
Room 603, 6/F., Wanchai Central Building, 89 Lockhart Road, Wanchai,

HK

80-2F-DE (hex) Zurich Instruments AG
802FDE (base 16) Zurich Instruments AG
Technoparkstrasse 1
Zurich 8005
CH

5C-38-E0
(hex) Shanghai Super Electronics Technology Co.,LTD
5C38E0 (base 16) Shanghai Super Electronics Technology Co.,LTD
1/F Building A 39 Hongcao Road
Shanghai 200233
CN

60-0F-77 (hex) SilverPlus, Inc
600F77 (base 16) SilverPlus, Inc
18 Technology Dr, #143
Irvine CA 92618
US

E4-4F-5F (hex) EDS Elektronik Destek San.Tic.Ltd.Sti
E44F5F (base 16) EDS Elektronik Destek San.Tic.Ltd.Sti
Meclis Mah. Hayran Sok. No:4
istanbul 34785
TR

E8-6D-54 (hex) Digit Mobile Inc
E86D54 (base 16) Digit Mobile Inc
5F.,No.550,Ruiguang Rd., Neihu Dist.,Taipei City 11492, Taiwan
Taipei Taiwan 11492
TW

E8-71-8D (hex) Elsys Equipamentos Eletronicos Ltda
E8718D (base 16) Elsys Equipamentos Eletronicos Ltda
Av. Torquato Tapajós, n. 1052 - B. Flores
Manaus Amazonas 69.058-830
BR

EC-E9-15 (hex) STI Ltd
ECE915 (base 16) STI Ltd
Osborn Way
Hook Hampshire RG27 9HX
GB

80-D7-33 (hex) QSR
Automations, Inc.
80D733 (base 16) QSR Automations, Inc.
2301 Stanley Gault Pkwy
Louisville KY 40223
US

30-3D-08 (hex) GLINTT TES S.A.
303D08 (base 16) GLINTT TES S.A.
Beloura Office Park, Ed.10
Sintra 2710-693

PT

AC-E6-4B (hex) Shenzhen Baojia Battery Technology Co., Ltd.
ACE64B (base 16) Shenzhen Baojia Battery Technology Co., Ltd.
Block A, Tongfuyu Industrial Zone
Shenzhen Guangdong 518013
CN

04-4B-FF (hex) GuangZhou Hedy Digital Technology Co., Ltd
044BFF (base 16) GuangZhou Hedy Digital Technology Co., Ltd
B 701, Gaoke Building, TianHe Bei Road,
GuangZhou GuangDong 510630
CN

A8-1F-AF (hex) KRYPTON POLSKA
A81FAF (base 16) KRYPTON POLSKA
AL. JEROZOLIMSKIE 131
WARSZAWA MAZOWIECKIE 02-304
PL

08-E5-DA (hex) NANJING FUJITSU COMPUTER PRODUCTS CO.,LTD.
08E5DA (base 16) NANJING FUJITSU COMPUTER PRODUCTS CO.,LTD.
NO.1,XIANXIN MID-ROAD
NANJING JIANGSU 210046
CN

58-84-E4
(hex) IP500 Alliance e.V.
5884E4 (base 16) IP500 Alliance e.V.
Scharnhorststraße 16
Berlin 10115
DE

08-AF-78 (hex) Totus Solutions, Inc.
08AF78 (base 16) Totus Solutions, Inc.
1505 Wallace Drive, Suite 102
Carrollton TX 75006
US

0C-93-FB (hex) BNS Solutions
0C93FB (base 16) BNS Solutions
PO Box 508
Walpole MA 02081
US

78-9F-87 (hex) Siemens AG I IA PP PRM
789F87 (base 16) Siemens AG I IA PP PRM
Gleiwitzer Strasse 555

Nuremberg Bavaria 90475
DE

60-32-F0 (hex) Mplus technology
6032F0 (base 16) Mplus technology
#201 Gayang Dong, Gangsea Gu
Seoul 157-793
KR

D8-AF-3B (hex) Hangzhou Bigbright Integrated communications system Co.,Ltd
D8AF3B (base 16) Hangzhou Bigbright Integrated communications system Co.,Ltd
The 6floor ,Building1,No.1418-41,Moganshan Road
Hangzhou Zhejiang 310015
CN

28-29-D9 (hex) GlobalBeiMing technology (Beijing)Co.
Ltd
2829D9 (base 16) GlobalBeiMing technology (Beijing)Co. Ltd
Beijing Chaoyang District 8 Guanghua Road A seat 320 rooms
Beijing 100026
CN

88-61-5A (hex) Siano Mobile Silicon Ltd.
88615A (base 16) Siano Mobile Silicon Ltd.
P.O. Box 8684
Netanya 42504
IL

70-E2-4C (hex) SAE IT-systems GmbH & Co. KG
70E24C (base 16) SAE IT-systems GmbH & Co. KG
Im Gewerbegebiet Pesch 14
Köln NRW 50767
DE

00-FD-4C (hex) NEVATEC
00FD4C (base 16) NEVATEC
Lindaraja 2
Granada 18009
ES

D0-73-8E (hex) DONG OH PRECISION CO., LTD.
D0738E (base 16) DONG OH PRECISION CO., LTD.
#282 SHINGAL-RI, JICSAN-EUP
CHEONAN-SI CHUNGCHEONGNAM-DO 331-814
KR

64-C9-44 (hex) LARK Technologies, Inc
64C944 (base 16) LARK Technologies, Inc

2570 W El Camino Real
Mountain View CA 94040
US

1C-94-92 (hex) RUAG Schweiz AG
1C9492 (base 16) RUAG Schweiz AG
RUAG Defence
Hombrechtikon
ZH 8634
CH

B8-89-CA (hex) ILJIN ELECTRIC Co., Ltd.
B889CA (base 16) ILJIN ELECTRIC Co., Ltd.
112-83, Annyeong-dong
Hwaseong Gyeonggi-do 445-380
KR

64-F5-0E (hex) Kinion Technology Company Limited
64F50E (base 16) Kinion Technology Company Limited
ng Kon107A, 1/F, Enterprise Place,

HK

60-19-29 (hex) VOLTRONIC POWER TECHNOLOGY(SHENZHEN) CORP.
601929 (base 16) VOLTRONIC POWER TECHNOLOGY(SHENZHEN) CORP.
1-4F,Building 5,YuSheng Industrial Park,No.467,Section Xixiang,National Highway 107,Xixiang,Bao An District,Shenzhen,China
Shenzhen Shenzhen 518000
CN

48-B2-53 (hex) Marketaxess Corporation
48B253 (base 16) Marketaxess Corporation
299 Park Avenue
New York NY 10171
US

30-5D-38 (hex) Beissbarth
305D38 (base 16) Beissbarth
Hanauer Str. 101
Muenchen 80993
DE

60-D2-B9 (hex) REALAND BIO CO., LTD.
60D2B9 (base 16) REALAND BIO CO., LTD.
Room 201A, N.set, Jinshan
Bd., No.248 Wushan Rd., Tianhe District
Guangzhou Guangdong 510630
CN

30-FD-11 (hex) MACROTECH (USA) INC.
30FD11 (base 16) MACROTECH (USA) INC.
1799 BAYSHORE HIGHWAY
BURLINGAME CA 94010
US

14-43-19 (hex) Creative&Link Technology Limited
144319 (base 16) Creative&Link Technology Limited
ROOM 704 HONG JIN GE BLD. NO.3018,YANHE SOUTH ROAD
Shenzhen Guangdong 518002
US

18-48-D8 (hex) Fastback Networks
1848D8 (base 16) Fastback Networks
2480 N 1st Street
San Jose California 95131
US

C8-C7-91 (hex) Zero1.tv GmbH
C8C791 (base 16) Zero1.tv GmbH
Heinrich-Roller-Str. 16 B
Berlin 10405
DE

EC-D9-25 (hex) RAMI
ECD925 (base 16) RAMI
7 RUE RAOUL FOLLEREAU
BUSSY ST GEORGES 77600
FR

00-5D-03 (hex) Xilinx, Inc
005D03 (base 16) Xilinx, Inc
2100 Logic drive
San Jose CA 95124
US

D0-4C-C1 (hex) SINTRONES Technology Corp.
D04CC1 (base 16) SINTRONES
Technology Corp.
14F.-3, No.736, Zhongzheng Rd., Zhonghe Dist., New Taipei City 235, Taiwan (R.O.C.)
Taipei N/A 235
TW

50-3F-56 (hex) Syncmold Enterprise Corp
503F56 (base 16) Syncmold Enterprise Corp
9F., No.168, Jiankang Rd., Zhonghe Dist.
Xinbei City 235

US

C4-DA-26 (hex) NOBLEX SA
C4DA26 (base 16) NOBLEX SA
Vicente Padín Moreira 97
Ushuaia Tierra del fuego 9410
AR

7C-C8-AB (hex) Acro Associates, Inc.
7CC8AB (base 16) Acro Associates, Inc.
1990 Olivera Rd.
Concord CA 94520
US

10-F3-DB (hex) Gridco Systems, Inc.
10F3DB (base 16) Gridco Systems, Inc.
10-L Commerice Way
Woburn MA 01801
US

8C-EE-C6 (hex) Precepscion Pty. Ltd.
8CEEC6 (base 16) Precepscion Pty. Ltd.
Level 10
Melbourne Victoria 3000
AU

10-12-48 (hex) ITG, Inc.
101248 (base 16) ITG, Inc.
YASUHARA BLDG 302, 1-42-6, ITABASHI,
ITABASHI-KU TOKYO 173-0004
US

74-94-3D (hex) AgJunction
74943D
(base 16) AgJunction
8444 N. 90th St
Scottsdale AZ 85258
US

04-9C-62 (hex) BMT Medical Technology s.r.o.
049C62 (base 16) BMT Medical Technology s.r.o.
Cejl 50
Brno 65660
CZ

0C-2A-69 (hex) electric imp, incorporated
0C2A69 (base 16) electric imp, incorporated
5050 El Camino Real, Ste 221

Los Altos California 94022
US

C4-55-C2 (hex) Bach-Simpson
C455C2 (base 16) Bach-Simpson
109 Meg Drive
London Ontario N6E3Z7
CA

00-E8-AB (hex) Meggitt Training Systems, Inc.
00E8AB (base 16) Meggitt Training Systems, Inc.
296 Brogdon Rd
Suwanee GA 30024
US

B4-21-8A (hex) Dog Hunter LLC
B4218A (base 16) Dog Hunter LLC
8 Faneuil Hall SQ
Boston MA 02109
US

F0-D3-E7 (hex) Sensometrix SA
F0D3E7 (base 16) Sensometrix SA
Rue Albert Richard 2
Geneva GE 1201
CH

B0-12-66 (hex) Futaba-Kikaku
B01266 (base 16) Futaba-Kikaku
2-17-20-302
Yanaka
Taito-ku Tokyo 110-0001
JP

7C-C8-D0 (hex) TIANJIN YAAN TECHNOLOGY CO., LTD.
7CC8D0 (base 16) TIANJIN YAAN TECHNOLOGY CO., LTD.
No.8 Ziyuan Road,Huayuan Industrial Zone
Tianjin 300384
CN

88-E9-17 (hex) Tamaggo
88E917 (base 16) Tamaggo
2001 McGill College
Montreal Quebec H3A 3L3
CA

90-9D-E0 (hex) Newland Design + Assoc. Inc.
909DE0 (base 16) Newland Design + Assoc. Inc.

3186-G Airway Ave.
Costa Mesa CA 92626
US

98-5E-1B (hex) ConversDigital Co., Ltd.
985E1B (base 16) ConversDigital Co., Ltd.
5308 5th Bldg., Dong Seoul Univ.
Seongnam Gyeonggi 461714
KR

60-D1-AA (hex) Vishal Telecommunications Pvt Ltd
60D1AA (base 16) Vishal Telecommunications Pvt Ltd
25 Sitaram Building Dr D N Road
Mumbai Maharastra 400001
IN

70-9B-A5 (hex) Shenzhen Y&D Electronics Co.,LTD.
709BA5 (base 16) Shenzhen Y&D Electronics Co.,LTD.
D zone3F,Shenzhen Academy of
Aerospace Technology,Hi-Tech Park,south 10th Road,Nanshan
Shenzhen Guangdong 518057
CN

B4-89-10 (hex) Coster T.E. S.P.A.
B48910 (base 16) Coster T.E. S.P.A.
Via San Giovanni Battista De La Salle 4/a
Milano MI 20132
IT

B0-C8-3F (hex) Jiangsu Cynray IOT Co., Ltd.
B0C83F (base 16) Jiangsu Cynray IOT Co., Ltd.
Building D1, 1 Zidong road, Qixia district
Nanjing Jiangsu 210000
CN

3C-F3-92 (hex) Virtualtek. Co. Ltd
3CF392 (base 16) Virtualtek. Co. Ltd
12F, ShinhanDm Bldg.,
Seoul 121-708
KR

14-9F-E8 (hex) Lenovo Mobile Communication Technology Ltd.
149FE8 (base 16) Lenovo Mobile Communication Technology Ltd.
No.999,Qishan North 2nd Road,Information&Optoelectronics Park,Torch Hi-tech Industry Development Zone
Xiamen Fujian 361006
CN

BC-D9-40 (hex) ASR Co,.Ltd.

BCD940 (base 16) ASR Co,.Ltd.
1-3-1 Sotokanda Chiyoda-ku
Tokyo 101-0021
JP

68-B4-3A (hex) WaterFurnace International,
Inc.
68B43A (base 16) WaterFurnace International, Inc.
9000 Conservation Way
Fort Wayne IN 46809
US

4C-78-97 (hex) Arrowhead Alarm Products Ltd
4C7897 (base 16) Arrowhead Alarm Products Ltd
344B Rosedale Road
Auckland Auckland 0751
NZ

44-E8-A5 (hex) Myreka Technologies Sdn. Bhd.
44E8A5 (base 16) Myreka Technologies Sdn. Bhd.
2-13, JALAN MAYANG PASIR 1,
Bayan Baru Penang 11950
MY

B4-82-C5 (hex) Relay2, Inc.
B482C5 (base 16) Relay2, Inc.
1525 McCarthy Blvd.,
Milpitas CA 95035
US

D8-AF-F1 (hex) Panasonic Appliances Company
D8AFF1 (base 16) Panasonic Appliances Company
2-3-1-2 Noji-higashi
Kusatsu City Shiga 525-8555
JP

2C-62-89 (hex) Regenersis (Glenrothes) Ltd
2C6289 (base 16) Regenersis (Glenrothes) Ltd
1 James Watt Avenue
Glenrothes Fife KY7 4UA
GB

58-EC-E1 (hex) Newport Corporation
58ECE1 (base 16) Newport Corporation
1791 Deere
Ave.
Irvine California 92606
US

4C-09-B4 (hex) zte corporation
4C09B4 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

58-CF-4B (hex) Lufkin Industries
58CF4B (base 16) Lufkin Industries
811 Willow Oak Drive
Missouri City Texas 77489
US

38-8A-B7 (hex) ITC Networks
388AB7 (base 16) ITC Networks
3F Daiwa Shibaura Bldg
Tokyo 105-0023
JP

D4-8C-B5 (hex) Cisco Systems, Inc
D48CB5 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A8-65-B2 (hex) DONGGUAN YISHANG ELECTRONIC TECHNOLOGY CO., LIMITED
A865B2 (base 16) DONGGUAN YISHANG ELECTRONIC TECHNOLOGY CO., LIMITED
3rd floor, B# Building ,Houdefu Logistics Park,Qingshuiao,
Dongguan Guangdong 523062
CN

E8-D0-FA (hex) MKS Instruments Deutschland GmbH
E8D0FA (base 16) MKS Instruments Deutschland GmbH
Schatzbogen 43
Munich
81829
DE

98-26-2A (hex) Applied Research Associates, Inc
98262A (base 16) Applied Research Associates, Inc
4300 San Mateo Boulevard NE
Albuquerque NM 87110
US

3C-91-74 (hex) ALONG COMMUNICATION TECHNOLOGY
3C9174 (base 16) ALONG COMMUNICATION TECHNOLOGY
1301, Zhenye International Business Center,
Shenzhen Guandong 518000

CN

DC-37-D2 (hex) Hunan HKT Electronic Technology Co., Ltd
DC37D2 (base 16) Hunan HKT Electronic Technology Co., Ltd
Room 428,4F,Hunan Environmental Science and Technology Committee Building,No 18 South of Wanjiali Road,Yuhua District,Changsha
Changsha Hunan 410007
CN

54-9D-85 (hex) EnerAccess inc
549D85 (base 16) EnerAccess inc
3154 Le Corbusier Blvd
Laval Quebec H7L 4S8
CA

B0-75-0C (hex) QA Cafe
B0750C (base 16) QA Cafe
33 Jewell Court
Portsmouth NH 03801
US

B4-E1-EB (hex) Private
B4E1EB (base 16) Private

EC-D1-9A (hex) Zhuhai Liming Industries Co., Ltd
ECD19A (base 16) Zhuhai Liming Industries Co., Ltd
No.6 Xinqing Rd,Xinqing Hi-Tech Industrial Park
Zhuhai Guangdong 519100
CN

34-81-37 (hex) UNICARD SA
348137 (base 16) UNICARD SA
UL.WADOWICKA 12
KRAKOW woj. malopolskie 30-415
PL

38-B1-2D (hex) Sonotronic Nagel GmbH
38B12D (base 16) Sonotronic Nagel GmbH
Becker-Goering-Str. 17-25
Karlsbad 76307
DE

AC-EE-3B (hex) 6harmonics Inc
ACEE3B (base 16) 6harmonics Inc
21 Concourse Gate - Suite 10
Ottawa Ontario K2E 7S4
CA

A0-6D-09 (hex) Intelcan Technosystems Inc.
A06D09 (base 16) Intelcan Technosystems Inc.
5490 Boul Thimens
Saint-Laurent Quebec H4R2K9
CA

60-F3-DA (hex) Logic Way GmbH
60F3DA (base 16) Logic Way GmbH
Hagenower Str. 73
Schwerin Mecklenburg-West Pomerania 19061
DE

3C-36-3D (hex) Nokia Corporation
3C363D (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu
90570
FI

80-86-98 (hex) Netronics Technologies Inc.
808698 (base 16) Netronics Technologies Inc.
600-15 Allstate Parkway
Markham Ontario L3R 5B4
CA

1C-6B-CA (hex) Mitsunami Co., Ltd.
1C6BCA (base 16) Mitsunami Co., Ltd.
2-30-11, Nishi-gotanda, Shinagawa-ku
Tokyo 141-0031
JP

E8-3E-FB (hex) GEODESIC LTD.
E83EFB (base 16) GEODESIC LTD.
18,10TH CROSS, MAYURA STREET
BANGALORE KARNATAKA 560094
IN

64-24-00 (hex) Xorcom Ltd.
642400 (base 16) Xorcom Ltd.
Teradyon Industrial Park
D.N Misgav 20179
IL

9C-E1-0E (hex) NCTech Ltd
9CE10E (base 16) NCTech Ltd
20-22 Braid Road
Edinburgh EH10 6AD

GB

40-70-74 (hex) Life Technology (China) Co., Ltd
407074 (base 16) Life Technology (China) Co., Ltd
No.1, 2F, Nanshan Digital Culture Industrial base (East Tower Podium) 10128 Shennan Blvd, Nanshan Dist.
Shenzhen Guangdong 518000
CN

20-F0-02 (hex) MTData Developments
Pty. Ltd.
20F002 (base 16) MTData Developments Pty. Ltd.
20 Miles Street
Mulgrave Victoria 3170
AU

FC-50-90 (hex) SIMEX Sp. z o.o.
FC5090 (base 16) SIMEX Sp. z o.o.
ul. Wielopole 7
Gdañsk pomorskie 80-556
PL

60-B9-82 (hex) RO.VE.R. Laboratories S.p.A.
60B982 (base 16) RO.VE.R. Laboratories S.p.A.
Via Parini, 2
Sirmione Brescia 25019
IT

B4-62-38 (hex) Exablox
B46238 (base 16) Exablox
365 San Antonio Road
Mountain View CA 94040
US

C8-BB-D3 (hex) Embrane
C8BBD3 (base 16) Embrane
2350 Mission College Blvd., Ste 703
Santa Clara CA 95054
US

1C-F4-CA (hex) Private
1CF4CA (base 16) Private

B4-A4-B5 (hex) Zen Eye Co.,Ltd
B4A4B5 (base 16) Zen Eye Co.,Ltd
#401, 157-5 Chunui-dong
Bucheon-si Gyeonggi-do 420-859
KR

BC-C2-3A (hex) Thomson Video Networks
BCC23A (base 16) Thomson Video Networks
6, rue du Clos Courtel
Cesson Sevigne 35510
FR

AC-C2-EC
(hex) CLT INT'L IND. CORP.
ACC2EC (base 16) CLT INT'L IND. CORP.
11F-2, NO.1, ZHANQIAN
MIAOLI 36043
TW

3C-9F-81 (hex) Shenzhen CATIC Bit Communications Technology Co.,Ltd
3C9F81 (base 16) Shenzhen CATIC Bit Communications Technology Co.,Ltd
in Nanshan District,Shenzhen Software park Road 10 in Room 202
Shenzhen Guangdong 518057
CN

44-5F-7A (hex) Shihlin Electric & Engineering Corp.
445F7A (base 16) Shihlin Electric & Engineering Corp.
16F NO.88, SEC, 6, CHUNG SHAN N. RD., TAIPEI
HsinChu HsinFun Shiang 304
TW

14-1A-51 (hex) Treetech Sistemas Digitais
141A51 (base 16) Treetech Sistemas Digitais
Praca Claudino Alves, 141
Atibaia São Paulo 12940-800
BR

A4-7C-14 (hex) ChargeStorm AB
A47C14 (base 16) ChargeStorm AB
Laxholmstorget 3
Norrköping 60221
SE

80-20-AF (hex) Trade FIDES, a.s.
8020AF (base 16) Trade FIDES, a.s.
Dornych 57
Brno
61700
CZ

3C-B8-7A (hex) Private
3CB87A (base 16) Private

00-2D-76 (hex) TITECH GmbH

002D76 (base 16) TITECH GmbH
Otto-Hahn-Str. 6
Muelheim-Kaerlich 56218
DE

8C-60-4F (hex) Cisco Systems, Inc
8C604F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A4-B9-80 (hex) Parking BOXX Inc.
A4B980 (base 16) Parking BOXX Inc.
382 NE 191st St. #93984
Miami FL 33179-3899
US

2C-75-0F (hex) Shanghai Dongzhou-Lawton Communication Technology Co. Ltd.
2C750F (base 16) Shanghai Dongzhou-Lawton Communication Technology Co. Ltd.
NO.188,FengyeRoad,BaoshanDistrict
shanghai 200949
CN

5C-50-15 (hex) Cisco Systems, Inc
5C5015 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

08-8F-2C (hex) Amber Technology Ltd.
088F2C (base 16) Amber Technology Ltd.
Unit 1, 2 Daydream Street
Warriewood New South Wales 2102
AU

44-13-19
(hex) WKK TECHNOLOGY LTD.
441319 (base 16) WKK TECHNOLOGY LTD.
23/F., One Kowloon, No.1, Wang Yuen Street,
852
HK

98-02-84 (hex) Theobroma Systems GmbH
980284 (base 16) Theobroma Systems GmbH
Gutheil-Schoder Gasse 17
Wien 1230
US

1C-D4-0C (hex) Kriwan Industrie-Elektronik GmbH
1CD40C (base 16) Kriwan Industrie-Elektronik GmbH
Allmand 11
Forchtenberg Baden-Würtemberg D-74670
DE

F8-DB-4C (hex) PNY Technologies, INC.
F8DB4C (base 16) PNY Technologies, INC.
100 Jefferson Road
Parsippany New Jersey 07054
US

0C-9D-56 (hex) Consort Controls Ltd
0C9D56 (base 16) Consort Controls Ltd
13 Campion Terrace
Leamington Spa CV32 4SU
GB

58-7F-C8 (hex) S2M
587FC8 (base 16) S2M
2 rue des champs
Saint Marcel 27950
FR

20-05-05 (hex) RADMAX COMMUNICATION PRIVATE LIMITED
200505 (base 16) RADMAX COMMUNICATION PRIVATE LIMITED
F-24/34, IIND FLOOR, SECTOR-7
DELHI
DELHI 110085
IN

AC-14-61 (hex) ATAW Co., Ltd.
AC1461 (base 16) ATAW Co., Ltd.
Dongan-gu Pyeongchon-dong 126-1
Anyang-si Gyeonggi-do 431-755
KR

E4-C6-E6 (hex) Mophie, LLC
E4C6E6 (base 16) Mophie, LLC
2850 Red Hill Ave.
Santa Ana CA 92705
US

50-2D-1D (hex) Nokia Corporation
502D1D (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

F4-8E-09 (hex) Nokia Corporation
F48E09 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

58-48-C0 (hex) COFLEC
5848C0 (base 16) COFLEC
Parc d'activités du moulin de Massy
MASSY 91300
FR

84-49-15 (hex) vArmour Networks, Inc.
844915 (base 16) vArmour Networks, Inc.
4633 OLD IRONSIDES DR
SANTA CLARA CA 95054-1807
US

C8-45-44 (hex) Asia Pacific CIS (Wuxi) Co, Ltd
C84544 (base 16) Asia Pacific CIS (Wuxi) Co, Ltd
No 11, Xikun Road, Wuxi New District
Wuxi Jiangsu 214028
CN

8C-57-FD
(hex) LVX Western
8C57FD (base 16) LVX Western
700 54th ave North
St. Cloud MN 56303
US

54-E6-3F (hex) ShenZhen LingKeWeiEr Technology Co., Ltd.
54E63F (base 16) ShenZhen LingKeWeiEr Technology Co., Ltd.
Room 625, YiJing Building, MeiLin Rd., FuTian District
ShenZhen GuandDong 518000
CN

20-FA-BB (hex) Cambridge Executive Limited
20FABB (base 16) Cambridge Executive Limited
St John's Innovation Centre
Cambridge Cambridgeshire CB40WS
GB

C0-35-BD (hex) Velocytech Aps
C035BD (base 16) Velocytech Aps
Automatikvej 1, 3rd floor
SOEBORG 2860

DK

28-71-84 (hex) Spire Payments
287184 (base 16) Spire Payments
Units 3 & 6 Milford Trading Estate
Salisbury Wiltshire SP1 2UD
GB

7C-B0-3E (hex) OSRAM GmbH
7CB03E (base 16) OSRAM GmbH
Berliner Allee 65
Augsburg Bayern 86136
DE

E0-EF-25 (hex) Lintes Technology Co., Ltd.
E0EF25 (base 16) Lintes
Technology Co., Ltd.
9F-1., No.150, Jian 1st Rd., Zhonghe Dist.,
New Taipei City 23511
TW

B0-1C-91 (hex) Elim Co
B01C91 (base 16) Elim Co
4F Gagu Plaza B/D 81-9, jeongja-dong, Jangan-gu,
Suwon city Gyeonggi-Do 440-300
KR

2C-BE-97 (hex) Ingenieurbuero Bickele und Buehler GmbH
2CBE97 (base 16) Ingenieurbuero Bickele und Buehler GmbH
St.Poeltener Str. 70
Stuttgart BW 70469
DE

50-ED-94 (hex) EGATEL SL
50ED94 (base 16) EGATEL SL
Parque Tecnologico de Galicia
Ourense 32901
ES

18-B5-91 (hex) I-Storm
18B591 (base 16) I-Storm
Hogye-dong, Dongan-gu
Anyang-si Gyeonggi-do 431-080
KR

04-F1-7D (hex) Tarana Wireless
04F17D (base 16) Tarana Wireless
2105 Martin Luther King Jr Way

Berkeley CA 94704
US

BC-8B-55 (hex) NPP ELIKS America Inc. DBA T&M Atlantic
BC8B55 (base 16) NPP ELIKS America Inc. DBA T&M Atlantic
175 SW 7th St Suite 1812
Miami FL 33130
US

C0-49-3D
(hex) MAITRISE TECHNOLOGIQUE
C0493D (base 16) MAITRISE TECHNOLOGIQUE
224 RUE DE LA SAINTE BAUME
SAINT MAXIMIN LA SAINTE BAUME VAR 83470
FR

A8-49-A5 (hex) Lisantech Co., Ltd.
A849A5 (base 16) Lisantech Co., Ltd.
1108, STX V-Tower Gasan-dong
Seoul 153-803
KR

A0-5E-6B (hex) MELPER Co., Ltd.
A05E6B (base 16) MELPER Co., Ltd.
207, 2nd FL.,Wonhyo Bldg.,1365-22
SEOUL 137-863
KR

D8-78-E5 (hex) KUHN SA
D878E5 (base 16) KUHN SA
4, impasse des fabriques
SAVERNE 67700
FR

D8-24-BD (hex) Cisco Systems, Inc
D824BD (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

28-CD-1C (hex) Espotel Oy
28CD1C (base 16) Espotel Oy
Kappelitie 6
Espoo Espoo FI-02200
FI

D4-43-A8 (hex) Changzhou Haojie Electric Co., Ltd.
D443A8 (base 16) Changzhou Haojie Electric Co., Ltd.

No. 158,
Changzhou Jiangsu 213022
CN

BC-E5-9F
(hex) WATERWORLD Technology Co.,LTD
BCE59F (base 16) WATERWORLD Technology Co.,LTD
6 Floor,Block B,Digital Building,Garden City,No.1079,Nanhai Road,Nanshan District,
Shenzhen Guangdong 518067
US

C4-67-B5 (hex) Libratone A/S
C467B5 (base 16) Libratone A/S
Marielundvej 43 A
2730 HERLEV
DK

4C-39-10 (hex) Newtek Electronics co., Ltd.
4C3910 (base 16) Newtek Electronics co., Ltd.
Byucksan-Sunyoung Technopia 1004,
Uiwang-City Kyunggi-Do 437-821
KR

AC-0D-FE (hex) Ekon GmbH - myGEKKO
AC0DFE (base 16) Ekon GmbH - myGEKKO
Rienzfeldstraße 30
Bruneck Südtirol (BZ) 39031
IT

FC-5B-26 (hex) MikroBits
FC5B26 (base 16) MikroBits
Jalan Petung 31 Papringan
Yogyakarta DIY 55281
ID

40-F4-07 (hex) Nintendo Co., Ltd.
40F407 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

90-0A-3A (hex) PSG Plastic Service GmbH
900A3A (base
16) PSG Plastic Service GmbH
Pinaer Str. 12-16
Mannheim BW 68309
DE

DC-3C-2E (hex) Manufacturing System Insights, Inc.
DC3C2E (base 16) Manufacturing System Insights, Inc.
2550 Ninth St.
Berkely CA 94710
US

90-3A-A0 (hex) Nokia
903AA0 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

B0-6C-BF (hex) 3ality Digital Systems GmbH
B06CBF (base 16) 3ality Digital Systems GmbH
Gut Mergenthau 1
Kissing Bayern 86438
DE

F8-35-53 (hex) Magenta Research Ltd.
F83553 (base 16) Magenta Research Ltd.
128 Litchfield Road
New Milford CT 06776
US

F4-04-4C (hex) ValenceTech Limited
F4044C (base 16) ValenceTech Limited
Unit 1, 20/F., APEC Plaza
HONG KONG NIL
CN

34-97-FB (hex) ADVANCED RF TECHNOLOGIES INC
3497FB (base 16) ADVANCED RF TECHNOLOGIES INC
3116 W Vanowen St
Burbank California 91505
US

70-41-B7 (hex) Edwards Lifesciences LLC
7041B7
(base 16) Edwards Lifesciences LLC
One Edwards Way
Irvine CA 92614
US

DC-A8-CF (hex) New Spin Golf, LLC.
DCA8CF (base 16) New Spin Golf, LLC.
1637 Burr Oak Drive
Libertyville IL 60048
US

F0-3A-55 (hex) Omega Elektronik AS
F03A55 (base 16) Omega Elektronik AS
Ege Serbest Bolgesi
Izmir 35410
TR

98-BC-57 (hex) SVA TECHNOLOGIES CO.LTD
98BC57 (base 16) SVA TECHNOLOGIES CO.LTD
5F No.192 Tinglin Road,
SHANGHAI 200233
CN

48-A2-2D (hex) Shenzhen Huaxuchang Telecom Technology Co.,Ltd
48A22D (base 16) Shenzhen Huaxuchang Telecom Technology Co.,Ltd
Room 501 Block B, Cyber Time Plaza
Shenzhen Guangdong 518040
CN

C8-60-00 (hex) ASUSTek COMPUTER INC.
C86000 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

70-A6-6A (hex) Prox Dynamics AS
70A66A (base 16) Prox Dynamics AS
Smedsvingen 4
Hvalstad Akershus
1395
NO

DC-3E-51 (hex) Solberg & Andersen AS
DC3E51 (base 16) Solberg & Andersen AS
Litleaasvegen 61
Bergen 5132
NO

84-36-11 (hex) hyungseul publishing networks
843611 (base 16) hyungseul publishing networks
526-4, paju bookcity, munbal-li, gyoha-eup
paju-si Gyeonggi-do 413-832
KR

34-40-B5 (hex) IBM
3440B5 (base 16) IBM
3039 E Cornwallis Rd
Research Triangle Park NC 27709

US

64-4B-F0 (hex) CalDigit, Inc
644BF0 (base 16) CalDigit, Inc
1941 Miraloma Ave #B
Placentia CA 92870
US

F0-62-0D (hex) Shenzhen Egreat Tech Corp.,Ltd
F0620D (base 16) Shenzhen Egreat Tech Corp.,Ltd
4F,1Building,Chuangye Industrial park
Shenzhen Guangdong 518104
CN

2C-67-FB (hex) ShenZhen Zhengjili Electronics Co., LTD
2C67FB (base 16) ShenZhen Zhengjili Electronics Co., LTD
The Longhua Town Shenzhen City Streets huaning three house Science Park Road Chiayi Source fifth floor
Shenzhen
Guangdong 518000
CN

EC-63-E5 (hex) ePBoard Design LLC
EC63E5 (base 16) ePBoard Design LLC
4065 E. La Palma Ave.
Anaheim California 92807
US

94-DB-49 (hex) SITCORP
94DB49 (base 16) SITCORP
7 RUE CADET
PARIS 75015
FR

3C-E5-B4 (hex) KIDASEN INDUSTRIA E COMERCIO DE ANTENAS LTDA
3CE5B4 (base 16) KIDASEN INDUSTRIA E COMERCIO DE ANTENAS LTDA
AV SINCLER SAMBATTI, 1945
MARINGA PARANA 87055-020
BR

08-D0-9F (hex) Cisco Systems, Inc
08D09F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

D4-D7-48 (hex) Cisco Systems, Inc
D4D748 (base 16) Cisco Systems, Inc
80 West Tasman Drive

San Jose CA 94568
US

34-4F-69 (hex) EKINOPS SAS
344F69 (base 16) EKINOPS SAS
3, Rue Blaise Pascal
LANNION FRANCE 22300
FR

F8-31-3E (hex) endeavour GmbH
F8313E (base 16) endeavour GmbH
Max-Planck-Str. 04
Vreden NRW 48691
DE

14-36-05
(hex) Nokia Corporation
143605 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

C8-1A-FE (hex) DLOGIC GmbH
C81AFE (base 16) DLOGIC GmbH
Rathausstrasse 14
Baar ZG 6341
CH

54-D0-ED (hex) AXIM Communications
54D0ED (base 16) AXIM Communications
1F., No. 5, Aly. 12, Ln. 15, Sec. 6, Sinyi Rd., Sinyi Dist.,
Taipei 110
TW

2C-00-2C (hex) UNOWHY
2C002C (base 16) UNOWHY
11, rue Tronchet
Paris 75008
US

64-ED-62 (hex) WOORI SYSTEMS Co., Ltd
64ED62 (base 16) WOORI SYSTEMS Co., Ltd
101Ho #42-9, Jeongja-dong, Pundang-gu
Sungnam-si Kyunggi-do 463-848
KR

5C-C9-D3 (hex) PALLADIUM ENERGY ELETRONICA DA AMAZONIA LTDA
5CC9D3 (base 16) PALLADIUM ENERGY ELETRONICA DA AMAZONIA LTDA

AVENIDA BURITI, 4285
MANAUS AMAZONAS 69075-000
BR

B4-94-4E (hex) WeTelecom Co., Ltd.
B4944E (base 16) WeTelecom Co., Ltd.
The'O Plus #915
Gunpo-si Kyunggi-do 435-805
KR

E0-0B-28
(hex) Inovonics
E00B28 (base 16) Inovonics
315 CTC Blvd
Louisville CO 80027
US

00-08-30 (hex) Cisco Systems, Inc
000830 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

C4-EE-AE (hex) VSS Monitoring
C4EEAE (base 16) VSS Monitoring
1850 Gateway Dr, Suite 500
San Mateo CA 94404
US

F8-D3-A9 (hex) AXAN Networks
F8D3A9 (base 16) AXAN Networks
2F Myungjin-Bldg Daechi-Dong Gangnam-Gu
Seoul 135-845
KR

CC-6B-F1 (hex) Sound Masking Inc.
CC6BF1 (base 16) Sound Masking Inc.
47 - 23 - Glamis Drive Sw
Calgary Alberta T3E 6S3
CA

18-E8-0F (hex) Viking Electronics Inc.
18E80F (base 16) Viking Electronics Inc.
1531 Industrial St
Hudson WI 54016
US

2C-97-17 (hex) I.C.Y. B.V.

2C9717 (base 16) I.C.Y. B.V.
Houtsaachmole 35
Lemmer Friesland 8531 WC
NL

98-82-17 (hex) Disruptive Ltd
988217 (base 16) Disruptive
Ltd
Windsor House
High Wycombe Buckinghamshire HP12 3NR
GB

C8-7C-BC (hex) Valink Co., Ltd.
C87CBC (base 16) Valink Co., Ltd.
1F Dongwon Bldg. 90, Dangsan-Dong 3-Ga Youngdungpo-Gu
Seoul 150-803
KR

B8-14-13 (hex) Keen High Holding(HK) Ltd.
B81413 (base 16) Keen High Holding(HK) Ltd.
25th Floor, In-long Development Centre, No.6025 Shennan Ave
Shenzhen Guangdong 518040
CN

48-02-2A (hex) B-Link Electronic Limited
48022A (base 16) B-Link Electronic Limited
NO 268,FuQian Rd, JuTang Community,GuanLan town BaoAn district,ShenZhen, 518110,China
Shen Zhen Guang Dong 518110
CN

34-5B-11 (hex) EVI HEAT AB
345B11 (base 16) EVI HEAT AB
Box 55
Kungsaengen 196 22
SE

78-BA-D0 (hex) Shinybow Technology Co. Ltd.
78BAD0 (base 16) Shinybow Technology Co. Ltd.
9Fl.,No.63,Ju Guang Rd.,Chung Ho Dist.
New Taipei 235
TW

0C-5A-19 (hex) Axtion Sdn Bhd
0C5A19 (base
16) Axtion Sdn Bhd
A13-07, Subang Avenue Serviced Suites
Subang Jaya Selangor 47500
MY

A8-BD-1A (hex) Honey Bee (Hong Kong) Limited
A8BD1A (base 16) Honey Bee (Hong Kong) Limited
Flat L, 12/F., Phase 4, Kwun Tong Industrial Ctr.,

HK

2C-3F-38 (hex) Cisco Systems, Inc
2C3F38 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

40-50-E0 (hex) Milton Security Group LLC
4050E0 (base 16) Milton Security Group LLC
111 North Harbor Blvd
Fullerton CA 92832
US

70-CA-9B (hex) Cisco Systems, Inc
70CA9B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

9C-A3-BA (hex) SAKURA Internet Inc.
9CA3BA (base 16) SAKURA Internet Inc.
7-20-1 Nishi-shinjuku
Shinjuku-ku Tokyo 1600023
JP

A0-78-BA (hex) Pantech Co., Ltd.
A078BA (base 16) Pantech Co., Ltd.
110-1 Ongjeong-Ri, Tongjin-Eup
Gimpo-Si Gyounggi-Do 415-865
KR

68-BC-0C
(hex) Cisco Systems, Inc
68BC0C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

DC-B4-C4 (hex) Microsoft XCG
DCB4C4 (base 16) Microsoft XCG
1 Microsoft Way
Redmond WA 98052

US

AC-CB-09 (hex) Hefcom Metering (Pty) Ltd
ACCB09 (base 16) Hefcom Metering (Pty) Ltd
PO Box 10770
Centurion Gauteng 0046
ZA

18-66-E3 (hex) Veros Systems, Inc.
1866E3 (base 16) Veros Systems, Inc.
PO Box 10534
College Station Texas 77842
US

74-FD-A0 (hex) Compupal (Group) Corporation
74FDA0 (base 16) Compupal (Group) Corporation
No.1555 Jiashan Avenue
Jiashan Zhejiang 314113
CN

CC-B8-F1 (hex) EAGLE KINGDOM TECHNOLOGIES LIMITED
CCB8F1 (base 16) EAGLE KINGDOM TECHNOLOGIES LIMITED
FLAT/ RM B 26/F TWO CHINACHEM PLAZA 68 CONNAUGHT ROAD CENTRAL HK

HK

A4-29-B7 (hex) bluesky
A429B7 (base 16) bluesky
Rm1410 Tower A,Chengjian plaza,NO.18 beitaipingzhuang
Road,Haidian district,
Beijing 100088
CN

48-F3-17 (hex) Private
48F317 (base 16) Private

70-46-42 (hex) CHYNG HONG ELECTRONIC CO., LTD.
704642 (base 16) CHYNG HONG ELECTRONIC CO., LTD.
No.80, Lane 258, Sec. 3, Hansi W. Rd.,
Taichung 40647
TW

9C-5C-8D (hex) FIREMAX INDÚSTRIA E COMÉRCIO DE PRODUTOS ELETRÔNICOS LTDA
9C5C8D (base 16) FIREMAX INDÚSTRIA E COMÉRCIO DE PRODUTOS ELETRÔNICOS LTDA
R: Vicente de Felice, 589 - Jd.Ouro Verde
Limeira São Paulo 13482-075
BR

D4-20-6D (hex) HTC Corporation
D4206D (base 16) HTC Corporation
No. 23, Xinghua Rd., Taoyuan City
Taoyuan County Taiwan 330
TW

7C-1E-52 (hex) Microsoft
7C1E52 (base 16) Microsoft
1 Microsoft Way
Redmond Washington 98052
US

24-E6-BA (hex) JSC Zavod im. Kozitsky
24E6BA (base 16) JSC Zavod im. Kozitsky
Bld. 70, 5th line, V.O,
St.-Petersburg 199048
RU

CC-A3-74 (hex) Guangdong Guanglian
Electronic Technology Co.Ltd
CCA374 (base 16) Guangdong Guanglian Electronic Technology Co.Ltd
B338,Block13,No.232 Waihuandonglu Road,High Education Mega Center
Guangzhou Guangdong 510006
CN

58-67-7F (hex) Clare Controls Inc.
58677F (base 16) Clare Controls Inc.
7519 Pennsylvania Ave
Sarasota FL 34243
US

40-6A-AB (hex) RIM
406AAB (base 16) RIM
Phillip Street
Waterloo Ontario N2L 3W8
CA

24-87-07 (hex) SEnergy Corporation
248707 (base 16) SEnergy Corporation
Koizumi Bldg. 3F, 1-38-18
Yokohama city Kanagawa Pref. 224-0003
JP

C4-C1-9F (hex) National Oilwell Varco Instrumentation, Monitoring, and Optimization (NOV IMO)
C4C19F (base 16) National Oilwell Varco Instrumentation, Monitoring, and Optimization (NOV IMO)
1200 Cypress Creek Rd.
Cedar Park TX 78613
US

04-88-8C (hex) Eifelwerk Butler Systeme GmbH
04888C (base 16) Eifelwerk Butler Systeme GmbH
Eifelwerkstrasse
1
Malbergweich 54655
DE

CC-F8-F0 (hex) Xi'an HISU Multimedia Technology Co.,Ltd.
CCF8F0 (base 16) Xi'an HISU Multimedia Technology Co.,Ltd.
3 Floor , NO.1 Building , Modern Business Enterprise Centre (East) , NO.69, Jinye road , XiÂ¡Â¯an
Xi'an City Shanxi Province 710075
CN

30-DE-86 (hex) Cedac Software S.r.l.
30DE86 (base 16) Cedac Software S.r.l.
Via Toscana, 3
Castiglione dei Pepoli Bologna 40035
IT

18-C4-51 (hex) Tucson Embedded Systems
18C451 (base 16) Tucson Embedded Systems
5620 North Kolb Road
Tucson AZ 85750
US

D4-1C-1C (hex) RCF S.P.A.
D41C1C (base 16) RCF S.P.A.
Via Raffaello Sanzio 13
Reggio Emilia Italy 42124
IT

8C-8A-6E (hex) ESTUN AUTOMATION TECHNOLOY CO., LTD
8C8A6E (base 16) ESTUN AUTOMATION TECHNOLOY CO., LTD
16,Shuige Road
Nanjing Jiangsu 211106
CN

BC-77-9F (hex) SBM Co., Ltd.
BC779F (base 16) SBM Co., Ltd.
Hyunwoo Bldg 206, Anyang7-Dong
Anyang
Gyeonggi-Do 430-817
KR

58-92-0D (hex) Kinetic Avionics Limited
58920D (base 16) Kinetic Avionics Limited
Elstree Aerodrome

Hertfordshire WD6 3AW
GB

B8-B4-2E (hex) Gionee Communication Equipment Co,Ltd.ShenZhen
B8B42E (base 16) Gionee Communication Equipment Co,Ltd.ShenZhen
21/F Times Technology Building, 7028 Shennan Road, Futian District,
Shenzhen Guangdong 518040
CN

44-3E-B2 (hex) DEOTRON Co., LTD.
443EB2 (base 16) DEOTRON Co., LTD.
506, Dain Bldg
Ansan Kyonggi-do 425-856
KR

D0-59-C3 (hex) CeraMicro Technology Corporation
D059C3 (base 16) CeraMicro Technology Corporation
4F, No. 16-1, Sec. 6, Mingcyuan East Road
Taipei 114
TW

1C-8E-8E (hex) DB Communication & Systems Co., ltd.
1C8E8E (base 16) DB Communication & Systems Co., ltd.
3-3 Yeongdeok-dong, Giheung-gu
Yongin-si Gyeonggi-do 449-908
KR

AC-02-EF (hex) Comsis
AC02EF (base 16) Comsis
3
rue Broussais
Paris 75014
FR

B0-BF-99 (hex) WIZITDONGDO
B0BF99 (base 16) WIZITDONGDO
2F, 299-1, 3-DONG, SUNGSU 2-GA
SEOUL 133-833
KR

24-EC-99 (hex) ASKEY COMPUTER CORP
24EC99 (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585
TW

28-0C-B8 (hex) Mikrosay Yazilim ve Elektronik A.S.
280CB8 (base 16) Mikrosay Yazilim ve Elektronik A.S.

Cevizli Mah. Tansel Cad.
Istanbul 34846
TR

3C-C9-9E (hex) Huiyang Technology Co., Ltd
3CC99E (base 16) Huiyang Technology Co., Ltd
22D 7 Block ZhonghuiNewcity
Dongguan Guangdong 523849
CN

78-BE-B6 (hex) Enhanced Vision
78BEB6 (base 16) Enhanced Vision
5882 MACHINE DR.
Huntington Beach California 92649
US

2C-1E-EA (hex) AERODEV
2C1EEA (base 16) AERODEV
No.59,1985 Lane,Chunshen Road,
Shanghai 200237
CN

B4-FC-75 (hex) SEMA Electronics(HK) CO.,LTD
B4FC75
(base 16) SEMA Electronics(HK) CO.,LTD
Xialingbei Industrial Zone Liaobu,
Dongguan Guangdong 523411
CN

FC-17-94 (hex) InterCreative Co., Ltd
FC1794 (base 16) InterCreative Co., Ltd
897-6, HoGye-Dong, DongAn-Gu,
AnYang-Si, GyeongGi-Do, 431-836
KR

B4-0B-7A (hex) Brusa Elektronik AG
B40B7A (base 16) Brusa Elektronik AG
Neudorf 14
Sennwald St. Gallen 9466
CH

D4-5A-B2 (hex) Galleon Systems
D45AB2 (base 16) Galleon Systems
Unit 9, Fortnum Close
Birmingham West Midlands B33 0LG
GB

18-2C-91 (hex) Concept Development, Inc.

182C91 (base 16) Concept Development, Inc.
1881 Langley Avenue
Irvine CA 92614-5623
US

A4-4B-15 (hex) Sun Cupid Technology (HK) LTD
A44B15 (base 16) Sun Cupid Technology (HK) LTD
Room 1201-3, 12/F., Tower 6
Tsim Sha Tsui
HK

48-C8-62 (hex) Simo Wireless,Inc.
48C862 (base 16) Simo Wireless,Inc.
326#,Building 4,Zhongxing Industrial Park,Chuangye
Shenzhen
Guangdong 518054
CN

A0-16-5C (hex) Triteka LTD
A0165C (base 16) Triteka LTD
Malha Technology Park
Jerusalem 96951
IL

44-9C-B5 (hex) Alcomp, Inc
449CB5 (base 16) Alcomp, Inc
11537 Walnut Lane
Fort Atkinson WI 53538
US

70-B9-21 (hex) Fiberhome Telecommunication Technologies Co.,LTD
70B921 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

9C-41-7C (hex) Hame Technology Co., Limited
9C417C (base 16) Hame Technology Co., Limited
5F, No. 18 High Tech Middle Avenue One, High Tech Industrial Park, Nanshan District,
Shenzhen Guangdong 518057
CN

9C-6A-BE (hex) QEES ApS.
9C6ABE (base 16) QEES ApS.
Naverland 31, 2.tv
Glostrup Hovedstaden 2600
DK

E8-94-4C (hex) Cogent Healthcare Systems Ltd
E8944C (base 16) Cogent Healthcare Systems Ltd
69 Alma Road
Berkshire SL4 3HT
GB

90-67-F3
(hex) Alcatel Lucent
9067F3 (base 16) Alcatel Lucent
Via Energy Park, 14
Vimercate MB 20871
IT

A0-E2-95 (hex) DAT System Co.,Ltd
A0E295 (base 16) DAT System Co.,Ltd
Gun San Free Trade Area 511-1 ,
573-540
KR

40-F1-4C (hex) ISE Europe SPRL
40F14C (base 16) ISE Europe SPRL
Fauvette 1
Uccle 1180
BE

38-26-CD (hex) ANDTEK
3826CD (base 16) ANDTEK
Am Soeldnermoos 17
Hallbergmoos Bavaria 85399
DE

D8-97-3B (hex) Artesyn Embedded Technologies
D8973B (base 16) Artesyn Embedded Technologies
16/F Lu Plaza Building
Kwun Tong Kowloon 00000
HK

D4-F0-B4 (hex) Napco Security Technologies
D4F0B4 (base 16) Napco Security Technologies
333 Bayview Ave
Amityville NY 11701
US

9C-93-4E (hex) Xerox Corporation
9C934E (base 16) Xerox Corporation
Mail Stop 0214 - 7E
Webster NY 14580
US

68-F8-95 (hex) Redflow Limited
68F895 (base 16) Redflow
Limited
1/27 Counihan Rd
Brisbane Queensland 4073
AU

2C-8B-F2 (hex) Hitachi Metals America Ltd
2C8BF2 (base 16) Hitachi Metals America Ltd
1920 Zanker Road
San Jose CA 95112
US

90-09-17 (hex) Far-sighted mobile
900917 (base 16) Far-sighted mobile
Technology Park Desay Building 6th-Floor
Shenzhen Guangdong Province 518000
CN

04-46-65 (hex) Murata Manufacturing Co., Ltd.
044665 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

58-E4-76 (hex) CENTRON COMMUNICATIONS TECHNOLOGIES FUJIAN CO.,LTD
58E476 (base 16) CENTRON COMMUNICATIONS TECHNOLOGIES FUJIAN CO.,LTD
4th Floor,Jiaodajiepu Building,72# Kejierlu Road,
Xi'an Shaanxi Province 710100
CN

44-7E-95 (hex) Alpha and Omega, Inc
447E95 (base 16) Alpha and Omega, Inc
4735 Montview Blvd
Denver CO 80207
US

F4-A5-2A (hex) Hawa Technologies Inc
F4A52A (base 16) Hawa
Technologies Inc
336 Hayes St
San Francisco California 94102
US

E8-B7-48 (hex) Cisco Systems, Inc
E8B748 (base 16) Cisco Systems, Inc
80 West Tasman Drive

San Jose CA 94568
US

0C-6E-4F (hex) PrimeVOLT Co., Ltd.
0C6E4F (base 16) PrimeVOLT Co., Ltd.
2F-3, No. 9, Lane 3, Jihu Rd, Neihu
Taipei 11492
TW

98-60-22 (hex) EMW Co., Ltd.
986022 (base 16) EMW Co., Ltd.
80B-4L, 680-3 Gojan-Dong
Incheon 405-819
KR

BC-99-BC (hex) FonSee Technology Inc.
BC99BC (base 16) FonSee Technology Inc.
14F-2, No.32, Gaotie 2nd Rd.,
Zhubei City Hsinchu County 302
TW

78-3F-15 (hex) EasySYNC Ltd.
783F15 (base 16) EasySYNC Ltd.
Unit 1, 2 Seaward Place
Glasgow Scotland G41 1HH
GB

18-D0-71 (hex) DASAN CO., LTD.
18D071 (base 16) DASAN CO., LTD.
DASAN Tower 7F, 49 Daewangpangyo-ro644beon-gil
Seongnam-si Gyeonggi-do 463-760
KR

24-CB-E7 (hex) MYK, Inc.
24CBE7
(base 16) MYK, Inc.
4-60-30-108, Kamoi,
Yokohama Kanagawa 226-0003
JP

B0-A1-0A (hex) Pivotal Systems Corporation
B0A10A (base 16) Pivotal Systems Corporation
4683 Chabot Drive
Pleasanton CA 94588
US

80-2D-E1 (hex) Solarbridge Technologies
802DE1 (base 16) Solarbridge Technologies

9229 Waterford Centre Blvd
Austin TX 78758
US

B8-D4-9D (hex) M Seven System Ltd.
B8D49D (base 16) M Seven System Ltd.
24F, Trust Tower Bldg, 275-7, Yangjae2-Dong, Seocho-Gu
Seoul 137-739
KR

88-BF-D5 (hex) Simple Audio Ltd
88BFD5 (base 16) Simple Audio Ltd
Unit 59 Elderpark Workspace
Glasgow G51 3TR
GB

3C-67-2C (hex) Sciovid Inc.
3C672C (base 16) Sciovid Inc.
387 S Silverbrook Dr
Anaheim CA 92807
US

14-74-11 (hex) RIM
147411 (base 16) RIM
Phillip Street
Waterloo Ontario N2L 3W8
CA

F8-A9-DE (hex) PUISSANCE PLUS
F8A9DE (base 16) PUISSANCE PLUS
222
Impasse Louis Lépine
Montauban 82000
FR

B8-87-1E (hex) Good Mind Industries Co., Ltd.
B8871E (base 16) Good Mind Industries Co., Ltd.
22, Ta Yeou 2nd St,
Kaohsiung 831
TW

D4-F0-27 (hex) Trust Power Ltd.
D4F027 (base 16) Trust Power Ltd.
13 Berkley Street
London W1J 8DU
GB

DC-9B-1E (hex) Intercom, Inc.

DC9B1E (base 16) Intercom, Inc.
Sorimachi Bldg., 3-5, Taito 1-chome,
Taito-ku Tokyo 110-8654
JP

BC-5F-F4 (hex) ASRock Incorporation
BC5FF4 (base 16) ASRock Incorporation
2F.,No.37, Sec.2, Jhongyang S.Rd., Beitou Distric,
Taipei 112
TW

E8-B4-AE (hex) Shenzhen C&D Electronics Co.,Ltd
E8B4AE (base 16) Shenzhen C&D Electronics Co.,Ltd
Building 2, Xia You Song Mountain Top Industrial District, You Song Village
Shenzhen Guang Dong 518000
CN

CC-C6-2B (hex) Tri-Systems Corporation
CCC62B (base 16) Tri-Systems Corporation
3-27-8 TRS Building 3F
Hachioji
Tokyo 192-0904
JP

D8-C0-68 (hex) Netgenetech.co.,ltd.
D8C068 (base 16) Netgenetech.co.,ltd.
704, Hanlim Venture Town., #689-6,
Gunpo-si 435-862
KR

60-11-99 (hex) Siama Systems Inc
601199 (base 16) Siama Systems Inc
410 Saint-Nicolas Street
Montreal Quebec H2Y 2P5
CA

A8-8C-EE (hex) MicroMade Galka i Drozdz sp.j.
A88CEE (base 16) MicroMade Galka i Drozdz sp.j.
ul. Wieniawskiego 16
Pila Wielkopolskie 64-920
PL

C0-27-B9 (hex) Beijing National Railway Research & Design Institute of Signal & Communication Co., Ltd.
C027B9 (base 16) Beijing National Railway Research & Design Institute of Signal & Communication Co., Ltd.
Building No.18, Huayuan YiLi,Fengtai District,
Beijing 100073
CN

B0-BD-A1 (hex) ZAKLAD ELEKTRONICZNY SIMS
B0BDA1 (base 16) ZAKLAD ELEKTRONICZNY SIMS
POD SKARPA 51A
BYDGOSZCZ KUJAWSKO-POMORSKIE 85-796
PL

70-B2-65 (hex) Hiltron s.r.l.
70B265
(base 16) Hiltron s.r.l.
Strada Provinciale di Caserta, 218
Naples 80144
IT

78-1D-FD (hex) Jabil Inc
781DFD (base 16) Jabil Inc
10500 Dr. Martin Luther King Jr. St. N.
St. Petersburg Florida 33716
US

18-AE-BB (hex) Siemens Convergence Creators GmbH&Co.KG
18AEBB (base 16) Siemens Convergence Creators GmbH&Co.KG
Communications, Media and Technology
Hamburg D-21079
DE

50-FA-AB (hex) L-tek d.o.o.
50FAAB (base 16) L-tek d.o.o.
Obrtna cesta 18
Sentjernej 8310
SI

38-91-FB (hex) Xenox Holding BV
3891FB (base 16) Xenox Holding BV
Lingedijk 80
Tricht Gelderland 4196 HC
NL

A8-E0-18 (hex) Nokia Corporation
A8E018 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

04-55-CA (hex) BriView (Xiamen) Corp.
0455CA (base 16) BriView (Xiamen) Corp.
NO.1998 West of Fangshan Road,Xiang An Branch,Torch Hi-tech lndustrial Development Zone,
Xiamen

city Fujian Province 361102
CN

14-35-B3 (hex) Future Designs, Inc.
1435B3 (base 16) Future Designs, Inc.
2702 Triana Blvd
Huntsville AL 35805
US

AC-93-2F (hex) Nokia Corporation
AC932F (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

00-54-AF (hex) Continental Automotive Systems Inc.
0054AF (base 16) Continental Automotive Systems Inc.
21440 W. Lake Cook Rd.
Deer Park IL 60010
US

AC-CA-BA (hex) Midokura Co., Ltd.
ACCABA (base 16) Midokura Co., Ltd.
7th Floor Azabudai Hinoki building
Tokyo 106-0041
JP

0C-81-12 (hex) Private
0C8112 (base 16) Private

9C-95-F8 (hex) SmartDoor Systems, LLC
9C95F8 (base 16) SmartDoor Systems, LLC
5711-A Center Lane
Falls Church Virginia 22041
US

F4-3E-9D (hex) Benu Networks, Inc.
F43E9D (base 16) Benu Networks, Inc.
300 Rd., Suite 110
Billerica MA 01821
US

64-09-4C (hex) Beijing Superbee
Wireless Technology Co.,Ltd
64094C (base 16) Beijing Superbee Wireless Technology Co.,Ltd
B7,Science-Tech Fortune Center,
Beijing 100192
CN

64-D1-A3 (hex) Sitecom Europe BV
64D1A3 (base 16) Sitecom Europe BV
Linatebaan 101
Rotterdam Zuid Holland 3045 AH
NL

DC-2B-66 (hex) InfoBLOCK S.A. de C.V.
DC2B66 (base 16) InfoBLOCK S.A. de C.V.
Hegel 229 - 10
Mexico City Distrito Federal 11570
MX

6C-81-FE (hex) Mitsuba Corporation
6C81FE (base 16) Mitsuba Corporation
1-2681
Kiryu Gunma 376-8555
JP

04-E2-F8 (hex) AEP Ticketing solutions srl
04E2F8 (base 16) AEP Ticketing solutions srl
Via dei Colli, 240
Signa Firenze 50058
IT

EC-9E-CD (hex) Artesyn Embedded Technologies
EC9ECD (base 16) Artesyn Embedded Technologies
2900 S. Diablo Way Suite 190
Tempe Arizona 85282
US

8C-51-05 (hex) Shenzhen ireadygo Information Technology CO.,LTD.
8C5105 (base 16) Shenzhen
ireadygo Information Technology CO.,LTD.
Room 02,11F,DESAY Building,No.1 Hi-Tech South Road
Shenzhen 518057
CN

C8-20-8E (hex) Storagedata
C8208E (base 16) Storagedata
Randstad 22117
Almere Flevoland 1316BW
NL

28-72-F0 (hex) ATHENA
2872F0 (base 16) ATHENA
42 RUE MONGE
PARIS 75005

FR

1C-19-DE (hex) eyevis GmbH
1C19DE (base 16) eyevis GmbH
Hundsschleestrasse 23
Reutlingen BW 72766
DE

9C-80-7D (hex) SYSCABLE Korea Inc.
9C807D (base 16) SYSCABLE Korea Inc.
2F KAMA Bldg 1461-15 Secho-3dong Seocho-Gu
Seoul 137-720
KR

74-38-89 (hex) ANNAX Anzeigesysteme GmbH
743889 (base 16) ANNAX Anzeigesysteme GmbH
Wettersteinstrasse 18
Taufkirchen Bavaria 82024
DE

44-D2-CA (hex) Anvia TV Oy
44D2CA (base 16) Anvia TV Oy
PO Box 29
SEINAJOKI FIN60101
FI

38-6E-21 (hex) Wasion Group Ltd.
386E21 (base 16) Wasion Group Ltd.
No.468 West Tongzipo Road
High-Tech Industrial Development Zone
Changsha City Hunan Province, 410205
CN

60-9E-64 (hex) Vivonic GmbH
609E64 (base 16) Vivonic GmbH
Kurfuerst-Eppstein-Ring 4
Sailauf Bayern 63877
DE

34-B5-71 (hex) PLDS
34B571 (base 16) PLDS
Schanzenfeldstrasse 2
Wetzlar Hessen 35578
DE

3C-74-37 (hex) RIM
3C7437 (base 16) RIM
Phillip Street

Waterloo Ontario N2L 3W8
CA

EC-92-33 (hex) Eddyfi NDT Inc
EC9233 (base 16) Eddyfi NDT Inc
2800, Louis-Lumiere street
Quebec Quebec G1P 0A4
CA

BC-15-A6 (hex) Taiwan Jantek Electronics,Ltd.
BC15A6 (base 16) Taiwan Jantek Electronics,Ltd.
6F-1,No.1 Wu-Chuan 1St. Rd,Wu-Ku Industrial Park,
Sinchwang City Taipei Hsien 24892
TW

DC-DE-CA (hex) Akyllor
DCDECA (base 16) Akyllor
Britannia House, 22, 2F, Cator Road
Bandar Seri Begawan BS 8811
BN

A0-AA-FD (hex) EraThink Technologies Corp.
A0AAFD (base 16) EraThink Technologies
Corp.
289 Bisheng Road Building 4,Floor 4
Shanghai 201204
CN

7C-7D-41 (hex) Jinmuyu Electronics Co., Ltd.
7C7D41 (base 16) Jinmuyu Electronics Co., Ltd.
Room 132, Building 16, Tianqiaowan
Beijing 101101
CN

4C-14-80 (hex) NOREGON SYSTEMS, INC
4C1480 (base 16) NOREGON SYSTEMS, INC
100 N. MAIN ST. SUITE 2200
WINSTON - SALEM NC 27101
US

A4-85-6B (hex) Q Electronics Ltd
A4856B (base 16) Q Electronics Ltd
Beck House, Hawksworth Road
Leeds West Yorkshire LS18 4JP
GB

20-D5-AB (hex) Korea Infocom Co.,Ltd.
20D5AB (base 16) Korea Infocom Co.,Ltd.

5F Wintek B/D 511
Uiwang Kyunggi-Do 437-830
KR

0C-F3-EE (hex) EM Microelectronic
0CF3EE (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

B0-89-91 (hex) LGE
B08991 (base 16) LGE
60-39 , Kasan -dong , Gumcheon-gu.
Seoul 153-801
KR

30-14-2D (hex) Piciorgros
GmbH
30142D (base 16) Piciorgros GmbH
Claudiastrasse 5
Cologne NRW 51149
DE

50-AF-73 (hex) Shenzhen Bitland Information Technology Co., Ltd.
50AF73 (base 16) Shenzhen Bitland Information Technology Co., Ltd.
1-4F,44 Building,Tanglang Industrial Park and 1-6F,#7 Building,XiLi Tongfuyu Industrial Town,Nanshan District
Shenzhen Guangdong 518055
CN

6C-A9-06 (hex) Telefield Ltd
6CA906 (base 16) Telefield Ltd
Flat D,2/F., Valiant Industrial Centre,2-12 Au Pui Wan Street,
Hongkong 852
CN

78-22-3D (hex) Affirmed Networks
78223D (base 16) Affirmed Networks
35 Nagog Park
Acton MA 01720
US

3C-02-B1 (hex) Creation Technologies LP
3C02B1 (base 16) Creation Technologies LP
3939 North Fraser Way
Burnaby BC V5J 5J2
CA

E4-41-E6 (hex) Ottec Technology GmbH

E441E6 (base 16) Ottec Technology GmbH
Bünteweg 33
Gehrden Lower Saxony 30989
DE

48-DF-1C (hex) Wuhan NEC Fibre
Optic Communications industry Co. Ltd
48DF1C (base 16) Wuhan NEC Fibre Optic Communications industry Co. Ltd
3rd Road Guanshan,
Wuhan Hubei 430074
CN

BC-71-C1 (hex) XTrillion, Inc.
BC71C1 (base 16) XTrillion, Inc.
1-12-3-4F
Chiyoda-ku Tokyo 101-0041
JP

E0-E8-E8 (hex) Olive Telecommunication Pvt. Ltd
E0E8E8 (base 16) Olive Telecommunication Pvt. Ltd
862, Udyog Vihar
Gurgaon Haryana 122016
IN

D4-9C-8E (hex) University of FUKUI
D49C8E (base 16) University of FUKUI
3-9-1 Bunkyo
Fukui City 910-8507
JP

60-DA-23 (hex) Estech Co.,Ltd
60DA23 (base 16) Estech Co.,Ltd
#717,133-1,Sangdaewon-Dong
Seongnam-Si Gyeonggi-Do 462-120
KR

44-DC-CB (hex) SEMINDIA SYSTEMS PVT LTD
44DCCB (base 16) SEMINDIA SYSTEMS PVT LTD
1006/13, Sy No.49/1&3, 7th Mile, A.M Indl Estate,
Bangalore Karnataka 560068
IN

5C-9A-D8 (hex) FUJITSU LIMITED
5C9AD8 (base 16) FUJITSU LIMITED
403,
Kosugi-cho 1-chome, Nakahara-ku
Kawasaki Kanagawa 211-0063
JP

A4-C0-E1 (hex) Nintendo Co., Ltd.
A4C0E1 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

4C-3B-74 (hex) VOGTEC(H.K.) Co., Ltd
4C3B74 (base 16) VOGTEC(H.K.) Co., Ltd
Flat 01, 2/F, On Ning Building,
Hong Kong 999077
CN

68-43-52 (hex) Bhuu Limited
684352 (base 16) Bhuu Limited
Office 1, 465 Mt Eden Road
Auckland 1023
NZ

F8-F0-14 (hex) RackWare Inc.
F8F014 (base 16) RackWare Inc.
44053 Fremont Blvd.
Fremont CA 94538
US

28-26-A6 (hex) PBR electronics GmbH
2826A6 (base 16) PBR electronics GmbH
Berliner Strasse 5
Sandhausen Baden Wuertemmberg 69207
DE

B4-28-F1 (hex) E-Prime Co., Ltd.
B428F1 (base 16) E-Prime Co., Ltd.
Rm1207, Kolon Science Valley, 811,
Seoul 152050
KR

AC-2F-A8 (hex) Humannix Co.,Ltd.
AC2FA8 (base 16) Humannix
Co.,Ltd.
#402, 98-4, Songpa-Dong, Songpa-Gu
Seoul 138-170
KR

A8-39-44 (hex) Actiontec Electronics, Inc
A83944 (base 16) Actiontec Electronics, Inc
3301 Olcott St.
Santa Clara CA 95054

US

74-E0-6E (hex) Ergophone GmbH
74E06E (base 16) Ergophone GmbH
Temmlerstrasse 5
Marburg Hessen 35039
DE

EC-E9-0B (hex) SISTEMA SOLUCOES ELETRONICAS LTDA - EASYTECH
ECE90B (base 16) SISTEMA SOLUCOES ELETRONICAS LTDA - EASYTECH
RUA GUERRA DE AGUIAR, 220
São Paulo SP 08275-260
BR

A0-8C-9B (hex) Xtreme Technologies Corp
A08C9B (base 16) Xtreme Technologies Corp
200 4616 Valiant Dr NW
Calgary AB T3A0X9
CA

0C-F0-B4 (hex) Globalsat International Technology Ltd
0CF0B4 (base 16) Globalsat International Technology Ltd
17th floor,China Youse Building,No.6013 Shennan Avenue,Futian District,
Shenzhen Guangdong 518040
CN

60-52-D0 (hex) FACTS Engineering
6052D0 (base 16) FACTS
Engineering
8049 Photonics Drive
New Port Richey FL 34655
US

64-E8-E6 (hex) global moisture management system
64E8E6 (base 16) global moisture management system
11132 broad river road
irmo sc 29063
US

34-A1-83 (hex) AWare, Inc
34A183 (base 16) AWare, Inc
614 Massachusetts Ave.
Cambridge MA 02139
US

98-73-C4 (hex) Sage Electronic Engineering LLC
9873C4 (base 16) Sage Electronic Engineering LLC
201 Terry St.

Longmont CO 80501
US

B4-01-42 (hex) GCI Science & Technology Co.,LTD
B40142 (base 16) GCI Science & Technology Co.,LTD
No.381,xingangzhong road ,
GuangZhou GuangDong 510310
CN

74-0A-BC (hex) LightwaveRF Technology Ltd
740ABC (base 16) LightwaveRF Technology Ltd
Innovation Campus Birmingham
Faraday Wharf, Holt Street Birmingham B4 4BB
GB

30-4E-C3 (hex) Tianjin Techua Technology Co., Ltd.
304EC3 (base 16) Tianjin Techua Technology Co., Ltd.
12-1-1401
Tianlinyuan Fulicheng Gulouxi Road,Nankai District
Tianjin 300101
CN

B4-CF-DB (hex) Shenzhen Jiuzhou Electric Co.,LTD
B4CFDB (base 16) Shenzhen Jiuzhou Electric Co.,LTD
6F,Jiuzhou Electric Building,Southern No.12RD.,Hi-Tech Industrial Park,Nanshan District,
Shenzhen Guangdong 518057
CN

5C-6A-7D (hex) KENTKART EGE ELEKTRONIK SAN. VE TIC. LTD. STI.
5C6A7D (base 16) KENTKART EGE ELEKTRONIK SAN. VE TIC. LTD. STI.
1370 SK, NO:42/304,
MONTRO IZMIR 35230
TR

FC-D4-F2 (hex) The Coca Cola Company
FCD4F2 (base 16) The Coca Cola Company
One Coca Cola Plaza
Atlanta GA 30313
US

10-64-E2 (hex) ADFweb.com s.r.l.
1064E2 (base 16) ADFweb.com s.r.l.
Strada Nuova, 17
Mareno di Piave Treviso 31010
IT

CC-34-D7 (hex) GEWISS S.P.A.
CC34D7 (base 16) GEWISS S.P.A.

VIA ALESSANDRO VOLTA 1
CENATE SOTTO 24069
IT

F0-2A-61 (hex) Waldo Networks, Inc.
F02A61 (base 16) Waldo
Networks, Inc.
4505 Spicewood Springs Rd
Austin Texas 78759
US

C8-A7-0A (hex) Verizon Business
C8A70A (base 16) Verizon Business
One Digex Plaza
Beltsville MD 20705
US

C0-12-42 (hex) Alpha Security Products
C01242 (base 16) Alpha Security Products
10715 Sikes Place, Ste. 200
Charlotte NC 28277
US

BC-20-BA (hex) Inspur (Shandong) Electronic Information Co., Ltd
BC20BA (base 16) Inspur (Shandong) Electronic Information Co., Ltd
No.1036 Shunya Rd.
Jinan Shandong 250101
CN

1C-FE-A7 (hex) IDentytech Solutins Ltd.
1CFEA7 (base 16) IDentytech Solutins Ltd.
14 Hadaya Street
Ramat- Hasharon 47226
IL

AC-81-12 (hex) Gemtek Technology Co., Ltd.
AC8112 (base 16) Gemtek Technology Co., Ltd.
No. 1 Jen Ai Road Hsinchu Industrial Park Hukou, Hsinchu 30352 TAIWAN, REPUBLIC OF CHINA
Hsinchu TAIWAN 30352
TW

68-63-59 (hex) Advanced Digital Broadcast SA
686359 (base 16) Advanced
Digital Broadcast SA
Avenue de Tournay 7
Pregny-Chambesy 1292
CH

CC-D8-11 (hex) Aiconn Technology Corporation
CCD811 (base 16) Aiconn Technology Corporation
5F, NO. 9, Alley 2, Lane 35, Ji-Hu Rd., Nei-Hu,
Taipei City 11494
TW

44-59-9F (hex) Criticare Systems, Inc
44599F (base 16) Criticare Systems, Inc
20925 Crossroads Circle
Waukasha WI 53186
US

3C-2F-3A (hex) SFORZATO Corp.
3C2F3A (base 16) SFORZATO Corp.
863
HINO-SHI TOKYO 191-0022
JP

18-92-2C (hex) Virtual Instruments
18922C (base 16) Virtual Instruments
100 Enterprise Way
Scotts Valley CA 95066
US

28-06-1E (hex) NINGBO GLOBAL USEFUL ELECTRIC CO.,LTD
28061E (base 16) NINGBO GLOBAL USEFUL ELECTRIC CO.,LTD
No.88,Kechuang South Road,
Ningbo Zhejiang 315000
CN

A0-DE-05 (hex) JSC Irbis-T
A0DE05 (base 16) JSC Irbis-T
39, Gorodskoy lane
Tula 300012
RU

08-17-F4 (hex) IBM Corp
0817F4
(base 16) IBM Corp
2051 Mission College Blvd
Santa Clara CA 95054
US

74-CE-56 (hex) Packet Force Technology Limited Company
74CE56 (base 16) Packet Force Technology Limited Company
2F., No.25, Sec. 1, Shuangshi Rd., Central Dist.,
Taichung 40046
TW

EC-BB-AE (hex) Digivoice Tecnologia em Eletronica Ltda
ECBBAE (base 16) Digivoice Tecnologia em Eletronica Ltda
Alameda Juru, 159 - Torreo
Barueri São Paulo 06455-010
BR

C4-4B-44 (hex) Omniprint Inc.
C44B44 (base 16) Omniprint Inc.
1923 East Deere Ave.
Santa Ana CA 92705
US

F4-38-14 (hex) Shanghai Howell Electronic Co.,Ltd
F43814 (base 16) Shanghai Howell Electronic Co.,Ltd
5-5/F, Bldg.1, No.788 Fengzhen Rd.,
Shanghai 200434
CN

90-61-0C (hex) Fida International (S) Pte Ltd
90610C (base 16) Fida International (S) Pte Ltd
Blk 16, Kallang Place
339156
SG

3C-5F-01 (hex) Synerchip Co., Ltd.
3C5F01
(base 16) Synerchip Co., Ltd.
c/o Synerchip USA Corp.
Sunnyvale CA 94085
US

10-A1-3B (hex) FUJIKURA RUBBER LTD.
10A13B (base 16) FUJIKURA RUBBER LTD.
1-840,Mihashi,Omiya
Saitama 330-0856
JP

F4-E1-42 (hex) Delta Elektronika BV
F4E142 (base 16) Delta Elektronika BV
Vissersdijk 4
Zierikzee 4301 ND
NL

E0-D1-0A (hex) Katoudenkikougyousyo co ltd
E0D10A (base 16) Katoudenkikougyousyo co ltd
oujihontyou1-4-13
kita-ku tokyo-to 114-0022

JP

48-C8-B6 (hex) SysTec GmbH
48C8B6 (base 16) SysTec GmbH
Ludwig-Erhard-Strasse 6
Bergheim-Glessen NRW 50129
DE

3C-62-78 (hex) SHENZHEN JETNET TECHNOLOGY CO.,LTD.
3C6278 (base 16) SHENZHEN JETNET TECHNOLOGY CO.,LTD.
Room 403,4th floor,Qinghua Information Building,Keyuan Road,North District of Tech-Park,Nanshan District
Shenzhen Guangdong 518057
CN

D4-3D-67 (hex) Carma Industries Inc.
D43D67 (base 16) Carma Industries
Inc.
132 Walsh Road
Lindsay Ontario K9V 4R3
CA

C8-D5-FE (hex) Shenzhen Zowee Technology Co., Ltd
C8D5FE (base 16) Shenzhen Zowee Technology Co., Ltd
Block 5, Science and Technology Industrial Park of
Shenzhen GuangDong 518055
CN

2C-30-68 (hex) Pantech Co.,Ltd
2C3068 (base 16) Pantech Co.,Ltd
110-1 Ongjeong-Ri, Tongjin-Eup
Gimpo-Si Gyounggi-Do 415-865
KR

00-BD-27 (hex) Exar Corp.
00BD27 (base 16) Exar Corp.
48720 Kato Rd.
Fremont CA 94538
US

5C-40-58 (hex) Jefferson Audio Video Systems, Inc.
5C4058 (base 16) Jefferson Audio Video Systems, Inc.
13020 Middletown Industrial Blvd.
Louisville Kentucky 40223
US

58-D0-8F (hex) IEEE 1904.1 Working Group
58D08F (base 16) IEEE 1904.1 Working Group
1351 Redwood Way,

Petaluma CA 94954
US

CC-09-C8 (hex) IMAQLIQ LTD
CC09C8 (base 16) IMAQLIQ LTD
Obvodny Canal 93A
St.Petersburg 191119
RU

9C-45-63
(hex) DIMEP Sistemas
9C4563 (base 16) DIMEP Sistemas
Av. Mofarrej, 840
São Paulo 05311000
BR

E4-46-BD (hex) C&C TECHNIC TAIWAN CO., LTD.
E446BD (base 16) C&C TECHNIC TAIWAN CO., LTD.
ROOM6 13F, NO.2,Jian 8th ROAD
Taipei Chungho City, 23511
TW

8C-DD-8D (hex) Wifly-City System Inc.
8CDD8D (base 16) Wifly-City System Inc.
4F.,-1,NO 106,RUEIGUANG Rd.Neihu District,
Taipei City 114
TW

20-A2-E7 (hex) Lee-Dickens Ltd
20A2E7 (base 16) Lee-Dickens Ltd
Rushton Rd
Kettering Northamptonshire NN14 2QW
GB

FC-ED-B9 (hex) Arrayent
FCEDB9 (base 16) Arrayent
570 El Camino Real #150-419
Redwood City CA 94063
US

44-ED-57 (hex) Longicorn, inc.
44ED57 (base 16) Longicorn, inc.
Rm1001-2, 10F, Byuksan Digital Valley1
Seoul 152-775
KR

EC-98-C1 (hex) Beijing Risbo Network Technology Co.,Ltd
EC98C1 (base 16) Beijing Risbo Network Technology Co.,Ltd

1/F Yinyan
Building 2A,No.23 Anningzhuangdonglu Haidian District
Beijing 100085
CN

D4-A9-28 (hex) GreenWave Reality Inc
D4A928 (base 16) GreenWave Reality Inc
39 Parker
Irvine California 92618
US

E0-62-90 (hex) Jinan Jovision Science & Technology Co., Ltd.
E06290 (base 16) Jinan Jovision Science & Technology Co., Ltd.
Room 407, Tower C, Cyber Port Building,
Jinan Shandong 250013
CN

10-0E-2B (hex) NEC CASIO Mobile Communications
100E2B (base 16) NEC CASIO Mobile Communications
1753,Shimonumabe
Kawasaki-shi Kanagawa 211-8666
JP

C4-63-54 (hex) U-Raku, Inc.
C46354 (base 16) U-Raku, Inc.
401-1 Deba
Ritto-shi Shiga 520-3041
JP

40-5F-BE (hex) RIM
405FBE (base 16) RIM
295 Phillip Street
Waterloo Ontario N2L 3W8
CA

58-DB-8D (hex) Fast Co., Ltd.
58DB8D (base 16) Fast Co., Ltd.
2-11-1 Iwamotocho
Chiyoda-ku Tokyo 101-0032
JP

38-A9-5F (hex) Actifio Inc
38A95F
(base 16) Actifio Inc
225 Wyman Street
Waltham MA 02451
IN

F4-DC-DA (hex) Zhuhai Jiahe Communication Technology Co., limited
F4DCDA (base 16) Zhuhai Jiahe Communication Technology Co., limited
4/F,East Of B5,Sourth Software Park,Tangjia,
Zhuhai Guangdong 519085
CN

E8-04-62 (hex) Cisco Systems, Inc
E80462 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

DC-D0-F7 (hex) Bentek Systems Ltd.
DCD0F7 (base 16) Bentek Systems Ltd.
315 - 3750 46th Ave. SE
Calgary AB T2B 0L1
CA

7C-B5-42 (hex) ACES Technology
7CB542 (base 16) ACES Technology
#928, Hyundai Venture Ville
Seoul 135-539
KR

90-54-46 (hex) TES ELECTRONIC SOLUTIONS
905446 (base 16) TES ELECTRONIC SOLUTIONS
Immeuble Odyssee
BRUZ 35170
FR

54-4A-05 (hex) wenglor sensoric gmbh
544A05 (base 16) wenglor sensoric gmbh
wenglor Str. 3
Tettnang 88069
DE

6C-9C-E9
(hex) Nimble Storage
6C9CE9 (base 16) Nimble Storage
2645 Zanker Road
San Jose CA 95134
US

A4-9B-13 (hex) Digital Check
A49B13 (base 16) Digital Check
630 Dundee Rd. Suite 210
Northbrook IL 60062
US

C8-EE-08 (hex) TANGTOP TECHNOLOGY CO.,LTD
C8EE08 (base 16) TANGTOP TECHNOLOGY CO.,LTD
1F,NO.153,Ligon St.,Beitou District
Taipei City 112
TW

70-E1-39 (hex) 3view Ltd
70E139 (base 16) 3view Ltd
168-172 Old Street
London EC1V 9BP
GB

18-42-2F (hex) Alcatel Lucent
18422F (base 16) Alcatel Lucent
Via Energy Park, 14
Vimercate MB 20871
IT

68-54-F5 (hex) enLighted Inc
6854F5 (base 16) enLighted Inc
1451 Grant Rd
Mountain View CA 94040
US

74-72-F2 (hex) Chipsip Technology Co., Ltd.
7472F2 (base 16) Chipsip Technology Co., Ltd.
8F-1, No.186, Jian-Yi Road, ChungHo City,
Taipei 235
TW

E0-A6-70 (hex) Nokia Corporation
E0A670 (base 16) Nokia
Corporation
Elektroniikkatie 10
Oulu 90570
FI

0C-D6-96 (hex) Amimon Ltd
0CD696 (base 16) Amimon Ltd
2 Maskit st
Herzlia 46733
IL

F4-DC-4D (hex) Beijing CCD Digital Technology Co., Ltd
F4DC4D (base 16) Beijing CCD Digital Technology Co., Ltd
107 Dongsi North Street, Dongcheng District,
Beijing 100007

CN

40-13-D9 (hex) Global ES
4013D9 (base 16) Global ES
Sinimäentie 8 b
Espoo 02631
FI

AC-4F-FC (hex) SVS-VISTEK GmbH
AC4FFC (base 16) SVS-VISTEK GmbH
Muehlbachstraße 20
Seefeld BY 82229
DE

B4-37-41 (hex) Consert, Inc.
B43741 (base 16) Consert, Inc.
4700 Falls of Neuse Rd.
Raleigh NC 27609
US

94-85-7A (hex) Evantage Industries Corp
94857A (base 16) Evantage Industries Corp
815 Bridge St. W.
Waterloo Ontario N2V 2M7
CA

24-AF-54 (hex) NEXGEN Mediatech Inc.
24AF54 (base 16) NEXGEN Mediatech Inc.
8F No. 150, Jianyi Rd.,

Chung Ho Taipei Hsien 235
TW

98-E1-65 (hex) Accutome
98E165 (base 16) Accutome
3222 Phoenixville Pike
Malvern PA 19355
US

78-57-12 (hex) Mobile Integration Workgroup
785712 (base 16) Mobile Integration Workgroup
4580 Klahanie DR SE STE 106
Issaquah WA 98029
US

38-0A-0A (hex) Sky-City Communication and Electronics Limited Company
380A0A (base 16) Sky-City Communication and Electronics Limited Company
1109, Building A, Kefa Industrial park, Huanguan south road, Guanlan,

Shenzhen Guangdong 518110
CN

DC-4E-DE (hex) SHINYEI TECHNOLOGY CO., LTD.
DC4EDE (base 16) SHINYEI TECHNOLOGY CO., LTD.
6-5-2, MINATOJIMA-MINAMIMACHI, CHUO-KU
KOBE HYOGO 650-0047
JP

F0-F8-42 (hex) KEEBOX, Inc.
F0F842 (base 16) KEEBOX, Inc.
10 Poppy Trail
Rolling Hills California 90274
US

40-83-DE (hex) Zebra Technologies Inc
4083DE (base 16) Zebra Technologies Inc
475 Half Day Road
Lincolnshire
IL 60069
US

88-97-DF (hex) Entrypass Corporation Sdn. Bhd.
8897DF (base 16) Entrypass Corporation Sdn. Bhd.
No.40, Jalan TPP 1/10,
Puchong Selangor Darul Ehsan 47100
MY

E0-87-B1 (hex) Nata-Info Ltd.
E087B1 (base 16) Nata-Info Ltd.
28, Prokhorova str.
Yoshkar-Ola Republic Mari-El 424007
RU

F0-AD-4E (hex) Globalscale Technologies, Inc.
F0AD4E (base 16) Globalscale Technologies, Inc.
5F, No. 2 Building, Minxing Industrial Park
Shenzhen Guangdong 518109
CN

08-FA-E0 (hex) Fohhn Audio AG
08FAE0 (base 16) Fohhn Audio AG
Hohes Gestade 3-7
Nuertingen BW 72622
DE

90-3D-5A (hex) Shenzhen Wision Technology Holding Limited
903D5A (base 16) Shenzhen Wision Technology Holding Limited

Room 26A, Jinrun Building, N0.6019, Shennan Rd., Futian District
Shenzhen Guangdong 518040
CN

44-7C-7F (hex) Innolight Technology Corporation
447C7F (base 16) Innolight Technology
Corporation
3 Results Way
Cupertino CA 95014
US

5C-86-4A (hex) Secret Labs LLC
5C864A (base 16) Secret Labs LLC
315 Bleecker St #308
New York NY 10014
US

D4-96-DF (hex) SUNGJIN C&T CO.,LTD
D496DF (base 16) SUNGJIN C&T CO.,LTD
Daeya
Sheung Gyeonggi 429-809
KR

58-B9-E1 (hex) Crystalfontz America, Inc.
58B9E1 (base 16) Crystalfontz America, Inc.
12412 E. Saltese Ave.
Spokane Valley WA 99216
US

20-D9-06 (hex) Iota, Inc.
20D906 (base 16) Iota, Inc.
2212 Queen Anne Ave. N., #348
Seattle WA 98109
US

F4-55-95 (hex) HENGBAO Corporation LTD.
F45595 (base 16) HENGBAO Corporation LTD.
8th Floor,Tower B,Xinsheng Mansion No.5 Financial Street,
Beijing 100140
CN

18-0C-77 (hex) Westinghouse Electric Company, LLC
180C77 (base 16) Westinghouse Electric Company, LLC
1000 Westinghouse Drive
Cranberry Township PA 16066
US

9C-4E-20 (hex) Cisco Systems,

Inc
9C4E20 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

1C-3A-4F (hex) AccuSpec Electronics, LLC
1C3A4F (base 16) AccuSpec Electronics, LLC
8140 Hawthorne Drive
Erie Pennsylvania 16509
US

7C-A2-9B (hex) D.SignT GmbH & Co. KG
7CA29B (base 16) D.SignT GmbH & Co. KG
Marktstraße 10
Kerken 47647
DE

A0-40-41 (hex) SAMWONFA Co.,Ltd.
A04041 (base 16) SAMWONFA Co.,Ltd.
470-5, Moonhyun2-Dong
Busan 608-042
KR

40-40-6B (hex) Icomera
40406B (base 16) Icomera
Odinsgatan 28
Gothenburg 411 03
SE

6C-22-AB (hex) Ainsworth Game Technology
6C22AB (base 16) Ainsworth Game Technology
10 Holker Street
Newington New South Wales 2127
AU

98-35-B8 (hex) Assembled Products Corporation
9835B8 (base 16) Assembled Products Corporation
115 E. Linden
Rogers Arkansas 72756
US

28-89-15 (hex) CashGuard Sverige AB
288915 (base
16) CashGuard Sverige AB
Finlandsgatan 16
Kista 16474
SE

68-CA-00 (hex) Octopus Systems Limited
68CA00 (base 16) Octopus Systems Limited
36/F, 148 Electric Road

HK

E0-58-9E (hex) Laerdal Medical
E0589E (base 16) Laerdal Medical
Tanke Svilandsgate 30
Stavanger 4002
NO

30-18-CF (hex) DEOS control systems GmbH
3018CF (base 16) DEOS control systems GmbH
Birkenallee 113
Rheine NRW 48432
DE

D8-75-33 (hex) Nokia Corporation
D87533 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

98-DC-D9 (hex) UNITEC Co., Ltd.
98DCD9 (base 16) UNITEC Co., Ltd.
1-2-1-Shinyokohama
Yokohama-shi Kanagawa 222-0033
JP

C0-CF-A3 (hex) Creative Electronics & Software, Inc.
C0CFA3 (base 16) Creative Electronics & Software, Inc.
650 Sundown Road
South Elgin IL 60177
US

60-89-B7 (hex) KAEL MÜHENDSLK ELEKTRONK TCARET SANAY LMTED RKET
6089B7
(base 16) KAEL MÜHENDSLK ELEKTRONK TCARET SANAY LMTED RKET
Atatürk Mah. 78 sokak ,No:10, Büyükalan Mevkii
Izmir Aegean 35175
TR

30-52-5A (hex) NST Co., LTD
30525A (base 16) NST Co., LTD
RM301,Daeryung Techno Town 2, 569-21
Seoul 153-771

KR

2C-A7-80 (hex) True Technologies Inc.
2CA780 (base 16) True Technologies Inc.
R476, AngelCity 1st,
Seongnam, Kyungki 463-862
KR

B0-E3-9D (hex) CAT SYSTEM CO.,LTD.
B0E39D (base 16) CAT SYSTEM CO.,LTD.
3-147-27 Higasi-sinmachi Hirohata-ku
Himeji Hyogo 671-1121
JP

7C-2E-0D (hex) Blackmagic Design
7C2E0D (base 16) Blackmagic Design
11 Gateway Court
Melbourne Victoria 3207
AU

5C-E2-86 (hex) Nortel Networks
5CE286 (base 16) Nortel Networks
CARRETERA BASE AEREA # 5850
Zapopan Jalisco 44130
MX

8C-64-0B (hex) Beyond Devices d.o.o.
8C640B (base 16) Beyond Devices d.o.o.
Trzaska cesta 515
Brezovica pri
Ljubljani SI-1351
SI

FC-E1-92 (hex) Sichuan Jinwangtong Electronic Science&Technology Co,.Ltd
FCE192 (base 16) Sichuan Jinwangtong Electronic Science&Technology Co,.Ltd
No.28,Xinchuang Rd.,West Gaoxin District
Chengdu Sichuan 611731
CN

94-9C-55 (hex) Alta Data Technologies
949C55 (base 16) Alta Data Technologies
4901 Rockaway Blvd, Building A
Rio Rancho NM 87124
US

D4-79-C3 (hex) Cameronet GmbH & Co. KG
D479C3 (base 16) Cameronet GmbH & Co. KG
Elberfelder Strasse 96

Remscheid NRW 42853
DE

0C-1D-C2 (hex) SeAH Networks
0C1DC2 (base 16) SeAH Networks
9F, IT Venture Tower East Wing 78 Garak-Dong,
Seoul Songpa-gu 138-950
KR

4C-5D-CD (hex) Oy Finnish Electric Vehicle Technologies Ltd
4C5DCD (base 16) Oy Finnish Electric Vehicle Technologies Ltd
Majavantie 10
TUUSULA FI-04320
FI

70-D5-7E (hex) Scalar Corporation
70D57E (base 16) Scalar Corporation
1F San-Ei
Bldg
Shinjuku-ku Tokyo 160-0023
JP

54-75-D0 (hex) Cisco Systems, Inc
5475D0 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

7C-6F-06 (hex) Caterpillar Trimble Control Technologies
7C6F06 (base 16) Caterpillar Trimble Control Technologies
5475 Kellenburger Rd.
Dayton OH 45424
US

70-D5-E7 (hex) Wellcore Corporation
70D5E7 (base 16) Wellcore Corporation
2870 Zanker Road
San Jose CA 95134
US

3C-F7-2A (hex) Nokia Corporation
3CF72A (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

54-5F-A9 (hex) Teracom Limited
545FA9 (base 16) Teracom Limited

B-84, Sector - 60,
Noida Uttar Pradesh 201 301
IN

40-8A-9A (hex) TITENG CO., Ltd.
408A9A (base 16) TITENG CO., Ltd.
7Fl. Shindo B/D 10 Garak-dong
Seoul 138-160
KR

F4-45-ED (hex) Portable Innovation Technology Ltd.
F445ED (base 16) Portable Innovation Technology
Ltd.
601-602, 6/F Park Building,
Kowloon
HK

6C-32-DE (hex) Indieon Technologies Pvt. Ltd.
6C32DE (base 16) Indieon Technologies Pvt. Ltd.
601, Alpha 2, Gigaspace IT Park
Pune Maharastra 411014
IN

60-12-83 (hex) TSB REAL TIME LOCATION SYSTEMS S.L.
601283 (base 16) TSB REAL TIME LOCATION SYSTEMS S.L.
Ronda Auguste y Louis Lumière 23, Nave 13
Parque Tecnológico de Valencia Paterna (Valencia) 46980
ES

54-7F-EE (hex) Cisco Systems, Inc
547FEE (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

AC-EA-6A (hex) GENIX INFOCOMM CO., LTD.
ACEA6A (base 16) GENIX INFOCOMM CO., LTD.
2F, Daebo Bldg. #1009-34
Seoul 153-829
KR

A8-F4-70 (hex) Fujian Newland Communication Science Technologies Co.,Ltd.
A8F470 (base 16) Fujian Newland Communication Science Technologies Co.,Ltd.
Newland Science & Technology Park No.1 Rujiang West Rd., Mawei,
Fuzhou Fujian 350015
CN

8C-73-6E

(hex) FUJITSU LIMITED
8C736E (base 16) FUJITSU LIMITED
403, Kosugi-cho 1-chome, Nakahara-ku
Kawasaki Kanagawa 211-0063
JP

E0-BC-43 (hex) C2 Microsystems, Inc.
E0BC43 (base 16) C2 Microsystems, Inc.
2833 Junction Avenue
San Jose California 95134
US

94-23-6E (hex) Shenzhen Junlan Electronic Ltd
94236E (base 16) Shenzhen Junlan Electronic Ltd
Block C,No.2 Industrial District, Fuyuan, Tangwei,Fuyong, Bao'an
Shenzhen Guangdong 518103
CN

10-E6-AE (hex) Source Technologies, LLC
10E6AE (base 16) Source Technologies, LLC
2910 Whitehall Park Drive
Charlotte NC 28273
US

2C-A8-35 (hex) RIM
2CA835 (base 16) RIM
295 Phillip Street
Waterloo Ontario N2L 3W8
CA

C4-1E-CE (hex) HMI Sources Ltd.
C41ECE (base 16) HMI Sources Ltd.
5 Floor, Suite 2, 233 Hsin Yi Road, Section 4
Taipei 10681
TW

14-A6-2C (hex) S.M. Dezac S.A.
14A62C (base 16) S.M.
Dezac S.A.
Vial Sant jordi S/N
Viladecavalls Barcelona 08232
ES

50-F0-03 (hex) Open Stack, Inc.
50F003 (base 16) Open Stack, Inc.
Advanced Research Center #411
Bun-Dang, Seong-Nam Gyung-Gi 463-816
KR

DC-49-C9 (hex) CASCO SIGNAL LTD
DC49C9 (base 16) CASCO SIGNAL LTD
No.489 Xizang Bei Road
Shanghai 200071
CN

70-D8-80 (hex) Upos System sp. z o.o.
70D880 (base 16) Upos System sp. z o.o.
Sienkiewicza 13
Knurow Slaskie 44-190
PL

A0-5D-C1 (hex) TMCT Co., LTD.
A05DC1 (base 16) TMCT Co., LTD.
5F-561, #19-11 SanChong Rd.
Taipei 115
TW

B8-64-91 (hex) CK Telecom Ltd
B86491 (base 16) CK Telecom Ltd
Keji Avenue,Heyuan Hi-tech Development Zone
Heyuan Guangdong Province 517000
CN

58-3C-C6 (hex) Omneality Ltd.
583CC6 (base 16) Omneality Ltd.
10B Glossop Road
South Croydon Surrey CR2 0PU
GB

B0-C8-AD (hex) People Power Company
B0C8AD (base
16) People Power Company
620 Lowell Ave
Palo Alto CA 94301
US

18-17-14 (hex) DAEWOOIS
181714 (base 16) DAEWOOIS
7F Namkwang Centlex Bldg. 440-4 Cheongcheon2-dong
Incheon Pupyeong-gu 82
KR

F0-EC-39 (hex) Essec
F0EC39 (base 16) Essec
Schoebroekstraat 48
Paal Limburg 3583

BE

04-FE-7F (hex) Cisco Systems, Inc
04FE7F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

EC-44-76 (hex) Cisco Systems, Inc
EC4476 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

48-71-19 (hex) SGB GROUP LTD.
487119 (base 16) SGB GROUP LTD.
13F,No.192,Sec.2,Chung Hsin Rd.,Hsin Tien City
Taipei 231
TW

68-1F-D8 (hex) Siemens Industry, Inc.
681FD8 (base 16) Siemens Industry, Inc.
10670 Treena Street
San Diego CA 92131
US

A8-99-5C (hex) aizo ag
A8995C (base 16) aizo ag
Brandstrasse 33
Schlieren 8952
CH

40-12-E4
(hex) Compass-EOS
4012E4 (base 16) Compass-EOS
7 Giborei Israel
Natanya 42504
IL

44-6C-24 (hex) Reallin Electronic Co.,Ltd
446C24 (base 16) Reallin Electronic Co.,Ltd
2/F, Building 3, No.202 Zhengzhong Rd, XiHu industry Park
Hang Zhou Zhe Jiang 310030
CN

20-46-F9 (hex) Advanced Network Devices (dba:AND)
2046F9 (base 16) Advanced Network Devices (dba:AND)
3820 Ventura Drive

Arlington Heights IL 60004
US

A4-B1-EE (hex) H. ZANDER GmbH & Co. KG
A4B1EE (base 16) H. ZANDER GmbH & Co. KG
Am Gut Wolf 15
Aachen 52070
DE

84-21-41 (hex) Shenzhen Ginwave Technologies Ltd.
842141 (base 16) Shenzhen Ginwave Technologies Ltd.
4/F,R2-A,High-Tech Industrial Park
Shenzhen Guangdong 518057
CN

A0-23-1B (hex) TeleComp R&D Corp.
A0231B (base 16) TeleComp R&D Corp.
102 SW Orange Blossom
Lake City Florida 32025
US

B8-A3-E0 (hex) BenRui Technology Co.,Ltd
B8A3E0
(base 16) BenRui Technology Co.,Ltd
No.3A room A Unit Hongsong Building
ShenZhen GuangDong 518000
CN

3C-F5-2C (hex) DSPECIALISTS GmbH
3CF52C (base 16) DSPECIALISTS GmbH
Helmholtzstr. 2-9 L
Berlin 10587
DE

6C-18-11 (hex) Decatur Electronics
6C1811 (base 16) Decatur Electronics
715 Bright Street
Decatur IL 62522
US

F8-E9-68 (hex) Egker Kft.
F8E968 (base 16) Egker Kft.
Szuglo u. 49.
Budapest 1145
HU

54-03-F5 (hex) EBN Technology Corp.
5403F5 (base 16) EBN Technology Corp.

10F, No.90, Sec. 1, Sintai 5th Rd.
Sijhih City Taipei County 22102
US

80-38-FD (hex) LeapFrog Enterprises, Inc.
8038FD (base 16) LeapFrog Enterprises, Inc.
6401 Holis Street
Emeryville CA 94608
US

AC-BE-B6 (hex) Visualedge Technology Co., Ltd.
ACBEB6 (base 16) Visualedge Technology Co., Ltd.
13FL.-1 No. 716, Zhongzheng Road, Zhonghe City,
Taipei County, 23511
TW

2C-91-27
(hex) Eintechno Corporation
2C9127 (base 16) Eintechno Corporation
3359-1, kako, Inami-cho
kako-gun hyogo 675-1105
JP

5C-14-37 (hex) Thyssenkrupp Aufzugswerke GmbH
5C1437 (base 16) Thyssenkrupp Aufzugswerke GmbH
Bernhaeuser Str.45
Neuhausen a.d.F 73765
DE

9C-55-B4 (hex) I.S.E. S.r.l.
9C55B4 (base 16) I.S.E. S.r.l.
Via della Canapiglia 5
Migliarino Pisano PISA 56010
IT

E4-75-1E (hex) Getinge Sterilization AB
E4751E (base 16) Getinge Sterilization AB
Box 69
Getinge 31044
SE

10-65-A3 (hex) Panamax LLC
1065A3 (base 16) Panamax LLC
5919 Sea Otter Place
Carlsbad CA 92010
US

40-01-C6 (hex) 3COM EUROPE LTD

4001C6 (base 16) 3COM EUROPE LTD
Peoplebuilding 2
Hemel Hempstead HERTS. HP2 4NW
GB

9C-5E-73 (hex) Calibre UK LTD
9C5E73 (base 16) Calibre UK LTD
Cornwall House
Bradford West Yorkshire BD8 7JS
GB

04-C0-5B (hex) Tigo
Energy
04C05B (base 16) Tigo Energy
170 Knowles Dr
Los Gatos CA 95032
US

AC-58-3B (hex) Human Assembler, Inc.
AC583B (base 16) Human Assembler, Inc.
2-1-11-6F
Shibuya-ku Tokyo 150-0002
JP

E8-E7-76 (hex) Shenzhen Kootion Technology Co., Ltd
E8E776 (base 16) Shenzhen Kootion Technology Co., Ltd
3/F, Building #4, XinJianXing Industrial Park
Shenzhen Guangdong Province 518108
CN

50-25-2B (hex) Nethra Imaging Incorporated
50252B (base 16) Nethra Imaging Incorporated
2855 Bowers Ave
Santa Clara CA 95051
US

F8-81-1A (hex) OVERKIZ
F8811A (base 16) OVERKIZ
EUROPA 3
Archamps 74160
FR

4C-63-EB (hex) Application Solutions (Electronics and Vision) Ltd
4C63EB (base 16) Application Solutions (Electronics and Vision) Ltd
Unit 2 York Road, Burgess Hill
England West Sussex, England, RH15 9TT RH15 9TT
GB

70-2F-97 (hex) Aava Mobile Oy
702F97 (base 16) Aava Mobile
Oy
Nahkatehtaankatu 2
Oulu 90100
FI

10-CA-81 (hex) PRECIA
10CA81 (base 16) PRECIA
Le ruissol VEYRAS
PRIVAS 07001
FR

38-63-F6 (hex) 3NOD MULTIMEDIA(SHENZHEN)CO.,LTD
3863F6 (base 16) 3NOD MULTIMEDIA(SHENZHEN)CO.,LTD
F6,Building11,Shenzhen Software Park
Shenzhen Guangdong 518057
CN

60-9F-9D (hex) CloudSwitch
609F9D (base 16) CloudSwitch
200 Wheeler Rd
Burlington MA 01803
US

CC-CC-4E (hex) Sun Fountainhead USA. Corp
CCCC4E (base 16) Sun Fountainhead USA. Corp
801 S. Garfiled AVE # 236
Los Angeles California 91801
US

68-85-40 (hex) IGI Mobile, Inc.
688540 (base 16) IGI Mobile, Inc.
4F Kyongnam Bldg.,
Seoul 135-080
KR

A0-9A-5A (hex) Time Domain
A09A5A (base 16) Time Domain
330 Wynn Drive
Huntsville AL 35805
US

64-A8-37 (hex) Juni Korea Co., Ltd
64A837 (base 16) Juni Korea Co., Ltd
E603 Bundang Techno-Park 151
Seongnam

Gyeonggi 463-760
KR

60-F1-3D (hex) JABLOCOM s.r.o.
60F13D (base 16) JABLOCOM s.r.o.
V Nivach 12
Jablonec nad Nisou 466 01
CZ

B8-94-D2 (hex) Retail Innovation HTT AB
B894D2 (base 16) Retail Innovation HTT AB
Sjöängsvägen 2
Sollentuna S-192 72
SE

F0-C2-4C (hex) Zhejiang FeiYue Digital Technology Co., Ltd
F0C24C (base 16) Zhejiang FeiYue Digital Technology Co., Ltd
Baoting Industrial Park, 531 Jiaogong Road
Hangzhou City Zhejiang Province 310012
CN

40-A6-A4 (hex) PassivSystems Ltd
40A6A4 (base 16) PassivSystems Ltd
Medway House
Newbury Berks RG14 2PZ
GB

94-BA-31 (hex) Visiontec da Amazônia Ltda.
94BA31 (base 16) Visiontec da Amazônia Ltda.
Rod. Geraldo Scavone, 2300 - Galpao 27
Jacareí SP 12305-490
BR

9C-5B-96 (hex) NMR Corporation
9C5B96 (base 16) NMR Corporation
3F Esprit Build.,1-3-6 Nishi-Nippori
Arakawa-Ku Tokyo 116-0013
JP

78-B8-1A
(hex) INTER SALES A/S
78B81A (base 16) INTER SALES A/S
Stavneagervej 22
Egaa 8250
DK

B0-E9-7E (hex) Advanced Micro Peripherals
B0E97E (base 16) Advanced Micro Peripherals

Unit 1 Harrier House
Witchford Cambridgeshire CB6 2HY
GB

48-34-3D (hex) IEP GmbH
48343D (base 16) IEP GmbH
Am Pferdemarkt 9c
Langenhagen Niedersachsen 30853
DE

D4-AA-FF (hex) MICRO WORLD
D4AAFF (base 16) MICRO WORLD
19370 VAN NESS AVE
TORRANCE CA 90501
US

94-2E-63 (hex) Finsécur
942E63 (base 16) Finsécur
52 rue Paul Lescop
Nanterre 92000
FR

AC-83-17 (hex) Shenzhen Furtunetel Communication Co., Ltd
AC8317 (base 16) Shenzhen Furtunetel Communication Co., Ltd
F19 building A zhongke plaza Nan yi street high-tech zone, Nanshan District,
Shenzhen Guangdong 518057
CN

AC-D1-80 (hex) Crexendo Business Solutions, Inc.
ACD180 (base 16) Crexendo Business Solutions, Inc.
10201
S. 5st St.
Phoenix AZ 85044
US

20-2C-B7 (hex) Kong Yue Electronics & Information Industry (Xinhui) Ltd.
202CB7 (base 16) Kong Yue Electronics & Information Industry (Xinhui) Ltd.
Kong Yue Industrial Park, 18 Kongyue Road, Jinguzhou
Jiangmen Guangdong 529141
CN

74-E5-37 (hex) RADSPIN
74E537 (base 16) RADSPIN
Songpa-gu Garak-dong 78
Seoul 138-950
KR

CC-00-80 (hex) BETTINI SRL

CC0080 (base 16) BETTINI SRL
VIA CESARE BATTISTI 22
CESANO MADERNO MILAN 20031
IT

64-4B-C3 (hex) Shanghai WOASiS Telecommunications Ltd., Co.
644BC3 (base 16) Shanghai WOASiS Telecommunications Ltd., Co.
15F, Software Building,
Shanghai 200233
CN

00-27-17 (hex) CE Digital(Zhenjiang)Co.,Ltd
002717 (base 16) CE Digital(Zhenjiang)Co.,Ltd
Wei 3 Road, Dingmao, Eco.Dev.Zone,
Zhenjiang 212009
CN

00-27-16 (hex) Adachi-Syokai Co., Ltd.
002716 (base 16) Adachi-Syokai Co., Ltd.
228-2 Hazama
Maki
Fukuchiyama-shi Kyoto 620-0913
JP

00-26-E1 (hex) Stanford University, OpenFlow Group
0026E1 (base 16) Stanford University, OpenFlow Group
353 Serra Mall
Stanford CA 94305-9030
US

00-26-DC (hex) Optical Systems Design
0026DC (base 16) Optical Systems Design
7/1 Vuko Place
Warriewood NSW 2102
AU

00-26-EC (hex) Legrand Home Systems, Inc
0026EC (base 16) Legrand Home Systems, Inc
301 Fulling Mill Rd
Middletown PA 17057
US

00-26-E9 (hex) SP Corp
0026E9 (base 16) SP Corp
Guro 3-dong ,Guro-gu
Seoul 152-780
KR

00-26-EB (hex) Advanced Spectrum Technology Co., Ltd.
0026EB (base 16) Advanced Spectrum Technology Co., Ltd.
1F., No.67 Jhongjheng Rd.
Sinjhuang Taiwan 242
TW

00-27-00 (hex) Shenzhen Siglent Technology Co., Ltd.
002700 (base 16) Shenzhen Siglent Technology Co., Ltd.
BUILDING A8,TANGLANG INDUSTRIAL ZONE,XILI,NANSHAN
Shenzhen Guangdong
518000
CN

00-26-7F (hex) Oregan Networks Ltd.
00267F (base 16) Oregan Networks Ltd.
Diskettgatan 11B
Linköping 58335
SE

00-26-7D (hex) A-Max Technology Macao Commercial Offshore Company Limited
00267D (base 16) A-Max Technology Macao Commercial Offshore Company Limited
Avenida Da Praia Grande No. 409
Macau
CN

00-26-7C (hex) Metz-Werke GmbH & Co KG
00267C (base 16) Metz-Werke GmbH & Co KG
Ohmstrasse 55
Zirndorf 90513
DE

00-26-74 (hex) Hunter Douglas
002674 (base 16) Hunter Douglas
One Duette Way
Broomfield CO 80020
US

00-26-73 (hex) RICOH COMPANY,LTD.
002673 (base 16) RICOH COMPANY,LTD.
810 Shimoimaizumi
Ebina-City Kanagawa-Pref 243-0460
JP

00-26-6D (hex) MobileAccess Networks
00266D (base 16) MobileAccess Networks
8391 Old Courthouse Rd.
Vienna VA 22182
US

00-26-61 (hex) Irumtek Co., Ltd.
002661 (base 16) Irumtek Co., Ltd.
Apt 708
513-22 Joongil Eines Platz
Seongnam-City Gyunggi-do 462-120
KR

00-26-5B (hex) Hitron Technologies. Inc
00265B (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

00-26-56 (hex) Sansonic Electronics USA
002656 (base 16) Sansonic Electronics USA
9950 Baldwin Place
El Monte Cailfornia 91731
US

00-26-58 (hex) T-Platforms (Cyprus) Limited
002658 (base 16) T-Platforms (Cyprus) Limited
Themistokli Dervi 3, Julia House
Nicosia P.C.-1066
CY

00-26-6F (hex) Coordiwise Technology Corp.
00266F (base 16) Coordiwise Technology Corp.
2F., No.123, Sec. 1, Lioujia 5th Rd.
Jhubei City, Hsinchu County 30272
TW

00-26-6E (hex) Nissho-denki Co.,LTD.
00266E (base 16) Nissho-denki Co.,LTD.
3-7-6,chidori
ohta Tokyo 146-0083
JP

00-26-63 (hex) Shenzhen Huitaiwei Tech. Ltd, co.
002663 (base 16) Shenzhen
Huitaiwei Tech. Ltd, co.
JianDa Building,501-502
Shenzhen Guangdong 518000
CN

00-26-C3 (hex) Insightek Corp.
0026C3 (base 16) Insightek Corp.
5F,NO.755,Chung Cheng Rd.,

Chung Ho City Taipei Hsien 235
TW

00-26-C1 (hex) ARTRAY CO., LTD.
0026C1 (base 16) ARTRAY CO., LTD.
5F Ueno Bldg, 1-17-5 Kouenjikita,
Tokyo 166-0002
JP

00-26-BE (hex) Schoonderbeek Elektronica Systemen B.V.
0026BE (base 16) Schoonderbeek Elektronica Systemen B.V.
Roggestraat 3-5
Nieuw Vennep Noord Holland 2153GC
NL

00-26-81 (hex) Interspiro AB
002681 (base 16) Interspiro AB
Box 2853
Täby 18728
SE

00-26-83 (hex) Ajoho Enterprise Co., Ltd.
002683 (base 16) Ajoho Enterprise Co., Ltd.
7F., No.101, Ruihu St.
Taipei 114
TW

00-26-8C (hex) StarLeaf Ltd.
00268C (base 16) StarLeaf Ltd.
Chaston House, Mill Court
Cambridge CB22 5LD
GB

00-26-8B (hex) Guangzhou Escene Computer
Technology Limited
00268B (base 16) Guangzhou Escene Computer Technology Limited
Room 209, No.54-56 Yuehe Building, Huacui Street, Tianhe Industrial Park
Guangzhou Guangdong Province 510065
CN

00-26-A1 (hex) Megger
0026A1 (base 16) Megger
4271 Bronze Way
Dallas Texas 75237
US

00-26-98 (hex) Cisco Systems, Inc
002698 (base 16) Cisco Systems, Inc

80 West Tasman Drive
San Jose CA 94568
US

00-26-9B (hex) SOKRAT Ltd.
00269B (base 16) SOKRAT Ltd.
Volkonskogo 2
Irkutsk 664007
RU

00-26-B5 (hex) ICOMM Tele Ltd
0026B5 (base 16) ICOMM Tele Ltd
304, Trendset Towers,
Hyderabad AP 500034
IN

00-26-D4 (hex) IRCA SpA
0026D4 (base 16) IRCA SpA
Viale Venezia 31 - C.P. 248
San Vendemiano (Treviso) Italy 31020
IT

00-26-4C (hex) Shanghai DigiVision Technology Co., Ltd.
00264C (base 16) Shanghai DigiVision Technology Co., Ltd.
No. 333 Guangji Rd.
Shanghai
200083
CN

00-26-46 (hex) SHENYANG TONGFANG MULTIMEDIA TECHNOLOGY COMPANY LIMITED
002646 (base 16) SHENYANG TONGFANG MULTIMEDIA TECHNOLOGY COMPANY LIMITED
No.10 Ping Nan East Road
Shenyang Liao Ning 110014
CN

00-26-44 (hex) Thomson Telecom Belgium
002644 (base 16) Thomson Telecom Belgium
Prins Boudewijnlaan 47
Edegem Antwerp B-2650
BE

00-26-3F (hex) LIOS Technology GmbH
00263F (base 16) LIOS Technology GmbH
Schanzenstraße 39
Köln Germany D-51063
DE

00-26-06 (hex) RAUMFELD GmbH

002606 (base 16) RAUMFELD GmbH
Reichenberger Str. 124
Berlin 10999
DE

00-26-07 (hex) Enabling Technology Pty Ltd
002607 (base 16) Enabling Technology Pty Ltd
23/44 Kings Park Road
West Perth Western Australia 6005
AU

00-26-02 (hex) SMART Temps LLC
002602 (base 16) SMART Temps LLC
435 PARK PL CIRCLE SUITE 100
Mishawaka IN 46545
US

00-26-05 (hex) CC Systems AB
002605
(base 16) CC Systems AB
Box 83
Alfta 822 22
SE

00-25-D4 (hex) General Dynamics Mission Systems
0025D4 (base 16) General Dynamics Mission Systems
150 Rustcraft Road
Dedham MA 02026
US

00-25-C2 (hex) RingBell Co.,Ltd.
0025C2 (base 16) RingBell Co.,Ltd.
10586 KingGeorge Hwy
Surrey B.C V3T 2X3
CA

00-26-3B (hex) Onbnetech
00263B (base 16) Onbnetech
506, Samsung IT Valley, 197-5
Guro-Gu Seoul 152-848
KR

00-26-34 (hex) Infineta Systems, Inc
002634 (base 16) Infineta Systems, Inc
2870 Zanker Rd
San Jose CA 95134
US

00-26-2F (hex) HAMAMATSU TOA ELECTRONICS
00262F (base 16) HAMAMATSU TOA ELECTRONICS
9162-1
HAMAMATSU SIZUOKA 431-2102
JP

00-25-FB (hex) Tunstall Healthcare A/S
0025FB (base 16) Tunstall Healthcare A/S
Stroemmen 6
Noerresundby 9400
DK

00-25-F4 (hex) KoCo Connector AG
0025F4 (base 16) KoCo Connector AG
Marienstraße
12
Berlin 10117
DE

00-25-EF (hex) I-TEC Co., Ltd.
0025EF (base 16) I-TEC Co., Ltd.
7/F,KAWARAMACHI KOYO BLDG.3-4-3,KAWARAMCHI,CHUO-KU,
OSAKA 541-0048
JP

00-26-31 (hex) COMMTACT LTD
002631 (base 16) COMMTACT LTD
Nahal Snir 10
Yazne 81101
IL

00-26-24 (hex) Thomson Inc.
002624 (base 16) Thomson Inc.
101 West 103rd Street
Indianapolis IN 46290
US

00-26-1A (hex) Femtocomm System Technology Corp.
00261A (base 16) Femtocomm System Technology Corp.
2F.-2,No.28, Taiyuan St.,
Jhubei City, Hsinchu Country, 30288
TW

00-25-E3 (hex) Hanshinit Inc.
0025E3 (base 16) Hanshinit Inc.
Dong-Won Bld 3F, 395-13, Gal-Ma 2, Seo-Gu
Daejeon 302-809
KR

00-25-9F (hex) TechnoDigital Technologies GmbH
00259F (base 16) TechnoDigital Technologies GmbH
Haesslerstraße 8
Erfurt Thuringia 99096
DE

00-25-9D (hex) Private
00259D (base 16) Private

00-25-98 (hex) Zhong
Shan City Litai Electronic Industrial Co. Ltd
002598 (base 16) Zhong Shan City Litai Electronic Industrial Co. Ltd
No.3 Industrial District, Wuguishan, Cheng gui Road
Zhong shan City Guang dong Province 528458
CN

00-25-99 (hex) Hedon e.d. B.V.
002599 (base 16) Hedon e.d. B.V.
Elektronicaweg 15
Delft Zuid Holland 2628 XG
NL

00-25-97 (hex) Kalki Communication Technologies
002597 (base 16) Kalki Communication Technologies
4th Floor, Survey. No. 17/1, Outer Ring Road
Opp. Prestige Cessna Park Bangalore 560 103
IN

00-25-6B (hex) ATENIX E.E. s.r.l.
00256B (base 16) ATENIX E.E. s.r.l.
Via Torricelli, 15/b
VERONA VR 37135
IT

00-25-6E (hex) Van Breda B.V.
00256E (base 16) Van Breda B.V.
Mercuriusweg 21
Brummen Gelderland 6971 GV
NL

00-25-65 (hex) Vizimax Inc.
002565 (base 16) Vizimax Inc.
2284, rue de la Province
Longueuil Québec J4G 1G1
CA

00-25-5E

(hex) Shanghai Dare Technologies Co.,Ltd.
00255E (base 16) Shanghai Dare Technologies Co.,Ltd.
22F,Info Tech Building, No.1555,Kongjiang Road,
Shanghai 200092
CN

00-25-5F (hex) SenTec AG
00255F (base 16) SenTec AG
Ringstrasse 39
Therwil 4106
CH

00-25-3B (hex) din Dietmar Nocker Facilitymanagement GmbH
00253B (base 16) din Dietmar Nocker Facilitymanagement GmbH
Kotzinastrasse 5
Linz Upper Austria 4030
AT

00-25-3D (hex) DRS Consolidated Controls
00253D (base 16) DRS Consolidated Controls
21 South Street
Danbury CT 06810-8147
US

00-25-35 (hex) Minimax GmbH & Co KG
002535 (base 16) Minimax GmbH & Co KG
Industriestrasse 10/12
Bad Oldesloe SH 23840
DE

00-25-92 (hex) Guangzhou Shirui Electronic Co., Ltd
002592 (base 16) Guangzhou Shirui Electronic Co., Ltd
301D, No.9, Caipin Road,
Guangzhou Guangdong 510663
CN

00-25-94 (hex) Eurodesign BG LTD
002594
(base 16) Eurodesign BG LTD
Business Park Sofia, Building 4, Floor 2
Sofia 1113
BG

00-25-8A (hex) Pole/Zero Corporation
00258A (base 16) Pole/Zero Corporation
5530 Union Centre Drive
West Chester OH 45069
US

00-25-84 (hex) Cisco Systems, Inc
002584 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-25-79 (hex) J & F Labs
002579 (base 16) J & F Labs
1214 W. Boston Post Road
Mamaroneck NY 10543
US

00-25-7F (hex) CallTechSolution Co.,Ltd
00257F (base 16) CallTechSolution Co.,Ltd
#123,Daewooprugio B/D,344-1, Seogyo-Dong,Mapo-gu
Seoul 121-837
KR

00-25-77 (hex) D-BOX Technologies
002577 (base 16) D-BOX Technologies
2172 de la Province
Longueuil Quebec J4G 1R7
CA

00-25-72 (hex) Nemo-Q International AB
002572 (base 16) Nemo-Q International AB
Box 210
Sollentuna 19123
SE

00-25-B4 (hex) Cisco Systems, Inc
0025B4
(base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-25-B2 (hex) MBDA Deutschland GmbH
0025B2 (base 16) MBDA Deutschland GmbH
Hagenauer Forst 27
Schrobenhausen Bavaria 86529
DE

00-25-A7 (hex) itron
0025A7 (base 16) itron
5390 Triangle Parkway
Norcross GA 30092

US

00-24-C2 (hex) Asumo Co.,Ltd.
0024C2 (base 16) Asumo Co.,Ltd.
Oya-Kita 1-3-1
EBINA-CITY KANAGAWA-PREF. 243-0419
JP

00-24-BF (hex) Carrier Culoz SA
0024BF (base 16) Carrier Culoz SA
30, Avenue Jean Falconnier
Culoz 01350
FR

00-24-C0 (hex) NTI COMODO INC
0024C0 (base 16) NTI COMODO INC
Rm#502, Kangyong Bldg, Sungnam-dong
Sungnam-si Kyunggi-do 462-827
KR

00-24-BB (hex) CENTRAL Corporation
0024BB (base 16) CENTRAL Corporation
NISSO 17 Bldg.7F 2-14-30
Yokohama Kanagawa 222-0033
JP

00-24-BC (hex) HuRob Co.,Ltd
0024BC (base 16) HuRob Co.,Ltd
2121,
Jeongwang-Dong
Siheung-Si Gyeonggi-Do 429-793
KR

00-24-B7 (hex) GridPoint, Inc.
0024B7 (base 16) GridPoint, Inc.
2801 Clarendon Blvd.
Arlington VA 22201
US

00-24-EA (hex) iris-GmbH infrared & intelligent sensors
0024EA (base 16) iris-GmbH infrared & intelligent sensors
Ostendstraße 1-14
Berlin 12459
DE

00-24-ED (hex) YT Elec. Co,.Ltd.
0024ED (base 16) YT Elec. Co,.Ltd.
Block B,2 Floor ,Bao Ying Industrial District,

Wu Lian Lu Shenzhen 518116
CN

00-24-EC (hex) United Information Technology Co.,Ltd.
0024EC (base 16) United Information Technology Co.,Ltd.
5/F,9th Building,Software Park,2nd Keji-zhong Road,High-Tech Industrial Park
Shenzhen Guangdong 518057
CN

00-24-E6 (hex) In Motion Technology Inc.
0024E6 (base 16) In Motion Technology Inc.
#350, 625 Agnes Street
New Westminster BC V3M 5Y4
CA

00-24-E7 (hex) Plaster Networks
0024E7 (base 16) Plaster Networks
935
Hamilton Avenue
Menlo Park CA 94025-1431
US

00-24-E4 (hex) Withings
0024E4 (base 16) Withings
2 rue Maurice Hartmann
Issy-les-Moulineaux 92130
FR

00-25-29 (hex) COMELIT GROUP S.P.A
002529 (base 16) COMELIT GROUP S.P.A
DON ARRIGONI N. 5
SAN LORENZO, ROVETTA BERGAMO 24020
IT

00-25-2A (hex) Chengdu GeeYa Technology Co.,LTD
00252A (base 16) Chengdu GeeYa Technology Co.,LTD
50 Shuxi Road,
Chengdu SiChuan 610091
CN

00-25-28 (hex) Daido Signal Co., Ltd.
002528 (base 16) Daido Signal Co., Ltd.
6-17-19
Minato-ku TOKYO 105-8650
JP

00-25-26 (hex) Genuine Technologies Co., Ltd.
002526 (base 16) Genuine Technologies Co., Ltd.

Klingelnberg Bldg.
Yokohama Kanagawa 222-0033
JP

00-24-DE (hex) GLOBAL Technology Inc.
0024DE (base 16) GLOBAL Technology Inc.
No.168,Shanshan Rd., Wangchun Industrial Park,
Ningbo 315176
CN

00-24-DB (hex) Alcohol
Monitoring Systems
0024DB (base 16) Alcohol Monitoring Systems
1241 W. Mineral Avenue
Littleton CO 80120
US

00-24-DD (hex) Centrak, Inc.
0024DD (base 16) Centrak, Inc.
207 Penns Trail
Newtown PA 18940
US

00-25-21 (hex) Logitek Electronic Systems, Inc.
002521 (base 16) Logitek Electronic Systems, Inc.
5622 Edgemoor Drive
Houston Texas 77081
US

00-25-1F (hex) ZYNUS VISION INC.
00251F (base 16) ZYNUS VISION INC.
1-1-7-1A
SAGAMIHARA KANAGAWA 229-0039
JP

00-25-1E (hex) ROTEL TECHNOLOGIES
00251E (base 16) ROTEL TECHNOLOGIES
CEVIZLIDERE 14.CD NO:2/19 BALGAT
ANKARA 06520
TR

00-25-19 (hex) Viaas Inc
002519 (base 16) Viaas Inc
3175 South Winchester Blvd
Campbell CA 95008
US

00-25-13 (hex) CXP DIGITAL BV

002513 (base 16) CXP DIGITAL BV
De Reulver 97A
Enschede 7544RT
NL

00-24-D5 (hex) Winward Industrial Limited
0024D5 (base 16) Winward
Industrial Limited
Rm.7, P Floor, Tower A,
HongKong 852
CN

00-25-03 (hex) IBM Corp
002503 (base 16) IBM Corp
2051 Mission College Blvd
Santa Clara CA 95054
US

00-25-04 (hex) Valiant Communications Limited
002504 (base 16) Valiant Communications Limited
71-1 Shivaji Marg
New Delhi Delhi 110015
IN

00-24-A7 (hex) Advanced Video Communications Inc.
0024A7 (base 16) Advanced Video Communications Inc.
633 W 5th Street
Los Angeles CA 90017
US

00-24-AB (hex) A7 Engineering, Inc.
0024AB (base 16) A7 Engineering, Inc.
12127 Kirkham Road Suite 101
Poway CA 92064
US

00-24-A4 (hex) Siklu Communication
0024A4 (base 16) Siklu Communication
7 Shoham St., , 3rd Floor
Petah Tikva 49517
IL

00-24-9A (hex) Beijing Zhongchuang Telecommunication Test Co., Ltd.
00249A (base 16) Beijing Zhongchuang Telecommunication Test Co., Ltd.
12-14,Block C,Beijing International
Building,#18,Zhong Guan Cun Nan Road,
Beijing 100081
CN

00-24-9E (hex) ADC-Elektronik GmbH
00249E (base 16) ADC-Elektronik GmbH
Östingstraße 13b
Hamm NRW D-59063
DE

00-24-5F (hex) Vine Telecom CO.,Ltd.
00245F (base 16) Vine Telecom CO.,Ltd.
191-4, 4F, Anyang-dong, Manan-gu
Anyang-si Gyeonggi-do 430-010
KR

00-24-55 (hex) MuLogic BV
002455 (base 16) MuLogic BV
Olivier van Noortstraat 4
Schiedam ZH 3124LA
NL

00-24-5A (hex) Nanjing Panda Electronics Company Limited
00245A (base 16) Nanjing Panda Electronics Company Limited
Zhongshan EastRoad 301,
NANJING JIANGSU 210016
CN

00-24-5B (hex) RAIDON TECHNOLOGY, INC.
00245B (base 16) RAIDON TECHNOLOGY, INC.
4F-8, NO.16, Lane 609, Sec.5, Chung-Hsin Rd.,
San-Chung City Taipei county, 24159
TW

00-24-59 (hex) ABB Automation products GmbH
002459 (base 16) ABB Automation products GmbH
Eppelheimer Strasse 82
Heidelberg
69123
DE

00-24-9F (hex) RIM Testing Services
00249F (base 16) RIM Testing Services
440 Phillip Street
Waterloo Ontario N2L 5R9
CA

00-24-88 (hex) Centre For Development Of Telematics
002488 (base 16) Centre For Development Of Telematics
B01, Electronic City, Phase 1
Bangalore Karnataka 560100

IN

00-24-8F (hex) DO-MONIX
00248F (base 16) DO-MONIX
#501, Koreana B/D
Seongnam-si Gyeonggi-do 82
KP

00-24-79 (hex) Optec Displays, Inc.
002479 (base 16) Optec Displays, Inc.
528 S. 6th Avenue
City of Industry California 91746
US

00-24-68 (hex) Sumavision Technologies Co.,Ltd
002468 (base 16) Sumavision Technologies Co.,Ltd
6F, Block A2, Power Creative Building,No.1 Shangdi East Road, Haidian District
Beijing 100085
CN

00-24-66 (hex) Unitron nv
002466 (base 16) Unitron nv
Franrkijklaan 27
Poperinge W-vl 8970
BE

00-24-AE (hex) IDEMIA
0024AE
(base 16) IDEMIA
18 chaussee Jules Cesar
OSNY 95520
FR

00-24-AD (hex) Adolf Thies Gmbh & Co. KG
0024AD (base 16) Adolf Thies Gmbh & Co. KG
Hauptstraße 76
Göttingen 37083
DE

00-24-3A (hex) Ludl Electronic Products
00243A (base 16) Ludl Electronic Products
171 Brady Ave
Hawthorne NY 10532
US

00-24-4E (hex) RadChips, Inc.
00244E (base 16) RadChips, Inc.
422 East Vermijo Ave.

Colorado Springs CO 80903
US

00-24-39 (hex) Digital Barriers Advanced Technologies
002439 (base 16) Digital Barriers Advanced Technologies
4th Floor
Glasgow Lanarkshire G1 2QQ
GB

00-24-34 (hex) Lectrosonics, Inc.
002434 (base 16) Lectrosonics, Inc.
581 Laser Rd.
Rio Rancho NM 87124
US

00-24-2F (hex) Micron
00242F (base 16) Micron
8000 S Federal Way
Boise ID 83716
US

00-24-0B (hex) Virtual Computer Inc.
00240B (base 16) Virtual Computer Inc.
3 LAN Drive
Westford
MA 01886
US

00-24-02 (hex) Op-Tection GmbH
002402 (base 16) Op-Tection GmbH
Borsigstraße 80
Heinsberg Germany 52525
DE

00-23-C1 (hex) Securitas Direct AB
0023C1 (base 16) Securitas Direct AB
Angbatsbron 1
Malmö 21120
SE

00-23-FC (hex) Ultra Stereo Labs, Inc
0023FC (base 16) Ultra Stereo Labs, Inc
181 Bonetti Drive
San Luis Obispo CA 93401
US

00-24-18 (hex) Nextwave Semiconductor
002418 (base 16) Nextwave Semiconductor

3610 Valley Centre Dr
San Diego CA 92130
US

00-24-12 (hex) Benign Technologies Co, Ltd.
002412 (base 16) Benign Technologies Co, Ltd.
504 room, 5F, South building, Forsafe Tower,
Shenzhen Guangdong 518057
CN

00-24-0D (hex) OnePath Networks LTD.
00240D (base 16) OnePath Networks LTD.
8 Hartom St
Jerusalem 91450
IL

00-23-DB (hex) saxnet gmbh
0023DB (base 16) saxnet gmbh
Willy-Brandt-Ring 1
Oelsnitz
Sachsen 08606
DE

00-23-C8 (hex) TEAM-R
0023C8 (base 16) TEAM-R
Gragdanski str.111, A, 9-N
St. Petersburg 195265
RU

00-23-EB (hex) Cisco Systems, Inc
0023EB (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-23-EC (hex) Algorithmix GmbH
0023EC (base 16) Algorithmix GmbH
Klettgaustrasse 21
Waldshut-Tiengen BW 79761
US

00-24-26 (hex) NOHMI BOSAI LTD.
002426 (base 16) NOHMI BOSAI LTD.
7-3,Kudan-Minami 4-Chome,
Tokyo 102-8277
JP

00-24-29 (hex) MK MASTER INC.

002429 (base 16) MK MASTER INC.
6F, -1, NO. 110,SEC. 3, JHONGSHAN RD.,
JHONG-HE CITY, TAIPEI COUNTY 235
TW

00-23-8D (hex) Techno Design Co., Ltd.
00238D (base 16) Techno Design Co., Ltd.
312-2
Aso-gun Kumamoto-ken 861-2401
JP

00-23-87 (hex) ThinkFlood, Inc.
002387 (base 16) ThinkFlood, Inc.
138 Claflin St
Belmont MA 02478
US

00-23-84 (hex) GGH
Engineering s.r.l.
002384 (base 16) GGH Engineering s.r.l.
Via Agucchi 84/2
Bologna 40133
IT

00-23-6F (hex) DAQ System
00236F (base 16) DAQ System
Rm 913, SungNam Woolim Lions VAlley I, 311-3
Sungnam-Si Kyunggi-Do, 462-806
KR

00-23-69 (hex) Cisco-Linksys, LLC
002369 (base 16) Cisco-Linksys, LLC
121 Theory Drive
Irvine California 92612
US

00-23-AA (hex) HFR, Inc.
0023AA (base 16) HFR, Inc.
5F, Hana EZ Tower
Sungnam-si Kyunggi-do 463-870
KR

00-23-A5 (hex) SageTV, LLC
0023A5 (base 16) SageTV, LLC
9800 S. La Cienega Blvd
Inglewood CA 90301
US

00-23-9E (hex) Jiangsu Lemote Technology Corporation Limited
00239E (base 16) Jiangsu Lemote Technology Corporation Limited
Menglan Industrial Park,Yushan
Changshu Jiangsu 215500
CN

00-23-30 (hex) DIZIPIA, INC.
002330 (base 16) DIZIPIA, INC.
15th Floor, East Wing, IT Venture Tower
Seoul 138160
KR

00-23-2D
(hex) SandForce
00232D (base 16) SandForce
12950 Saratoga Ave.
Saratoga California 95070-4658
US

00-23-91 (hex) Maxian
002391 (base 16) Maxian
21th Fl. KINS tower, 25-1
Seongnam-city Gyeonggi-do 463-847
KR

00-23-92 (hex) Proteus Industries Inc.
002392 (base 16) Proteus Industries Inc.
340 Pioneer Way
Mountain View CA 94041
US

00-23-93 (hex) AJINEXTEK
002393 (base 16) AJINEXTEK
9-3, Holimdong, Dalseogu
Daegu 704-240
KR

00-23-7F (hex) PLANTRONICS, INC.
00237F (base 16) PLANTRONICS, INC.
345 ENCINAL STREET
SANTA CRUZ CA 95060
US

00-23-BB (hex) Accretech SBS, Inc.
0023BB (base 16) Accretech SBS, Inc.
2451 NW 28th Ave.
Portland OR 97210
US

00-22-95 (hex) SGM Technology for lighting spa
002295 (base 16) SGM Technology for lighting spa
Via Pio La Torre 1
Tavullia PU 61010
IT

00-22-87 (hex) Titan Wireless LLC
002287
(base 16) Titan Wireless LLC
3914 Gattis School Rd
Round Rock Texas 78664
US

00-22-88 (hex) Sagrad, Inc.
002288 (base 16) Sagrad, Inc.
751 North Drive
Melbourne FL 32934
US

00-23-23 (hex) Zylin AS
002323 (base 16) Zylin AS
Auglendsdalen 78
Stavanger 4017
NO

00-22-F8 (hex) PIMA Electronic Systems Ltd.
0022F8 (base 16) PIMA Electronic Systems Ltd.
5 Hatzoref St.
Holon 58856
IL

00-23-1C (hex) Fourier Systems Ltd.
00231C (base 16) Fourier Systems Ltd.
16 Hamelacha St
Rosh Haayin 48091
IL

00-23-1D (hex) Deltacom Electronics Ltd
00231D (base 16) Deltacom Electronics Ltd
2F,ZIT,7km Tzarigradsko Shose
Sofia Sofia-grad 1784
BG

00-22-D0 (hex) Polar Electro Oy
0022D0 (base 16) Polar Electro Oy
Professorintie 5
Kempele Oulu 90440

FI

00-22-C3 (hex) Zeeport Technology Inc.
0022C3 (base 16) Zeeport Technology Inc.
1F,No231,Xianzheng
2nd Rd.
HsinChu Taiwan 300
TW

00-23-16 (hex) KISAN ELECTRONICS CO
002316 (base 16) KISAN ELECTRONICS CO
317-15
SEOUNG-DONG GU SEOUL 133-123
KR

00-23-0F (hex) Hirsch Electronics Corporation
00230F (base 16) Hirsch Electronics Corporation
1900 Carnegie, Bldg. B
Santa Ana CA 92705
US

00-23-0A (hex) ARBURG GmbH & Co KG
00230A (base 16) ARBURG GmbH & Co KG
Arthur Hehl Straße
Lossburg D-72290
DE

00-22-DE (hex) OPPO Digital, Inc.
0022DE (base 16) OPPO Digital, Inc.
2629B Terminal Blvd
Mountain View CA 94043
US

00-22-D7 (hex) Nintendo Co., Ltd.
0022D7 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

00-22-D6 (hex) Cypak AB
0022D6 (base 16) Cypak AB
P.O. BOX 2332
Stockholm 103 18
SE

00-22-A2 (hex) Xtramus Technologies
0022A2 (base 16) Xtramus Technologies
5th Fl., No. 102, Lide St.,

Zhonghe
City Taipei County 235
TW

00-22-9E (hex) Social Aid Research Co., Ltd.
00229E (base 16) Social Aid Research Co., Ltd.
South 3, West 10, Chuo-ku
Sapporo Hokkaido 060-0063
JP

00-22-F1 (hex) Private
0022F1 (base 16) Private

00-22-40 (hex) Universal Telecom S/A
002240 (base 16) Universal Telecom S/A
Avenida Paulista, 2444 - 17 andar
São Paulo 01310-300
BR

00-22-42 (hex) Alacron Inc.
002242 (base 16) Alacron Inc.
71 Spit Brook Rd.
Nashua NH 03060
US

00-22-21 (hex) ITOH DENKI CO,LTD.
002221 (base 16) ITOH DENKI CO,LTD.
1146-2, Asazuma-cho
Kasai Hyogo 679-0180
JP

00-22-26 (hex) Avaak, Inc.
002226 (base 16) Avaak, Inc.
9645 Scranton Rd., Suitie 110
San Diego CA 92121
US

00-22-1D (hex) Freegene Technology LTD
00221D (base 16) Freegene Technology LTD
3/F ,C BLDG,Weipengda Industrial Park
Shenzhen Gongdong 518109
CN

00-22-24 (hex) Good
Will Instrument Co., Ltd.
002224 (base 16) Good Will Instrument Co., Ltd.
No. 7-1 Jhongsing Road,
Taipei 236

TW

00-22-85 (hex) NOMUS COMM SYSTEMS
002285 (base 16) NOMUS COMM SYSTEMS
601, Gunjan Tower,
Baroda Gujarat 390023
IN

00-22-81 (hex) Daintree Networks Pty
002281 (base 16) Daintree Networks Pty
1 Dalmore Drive
Scoresby Victoria 3179
AU

00-22-73 (hex) Techway
002273 (base 16) Techway
Rm 1002, Daehyun Techno World Bd,
Uiwang-Si, Kyungki-Do 437-820
KR

00-22-34 (hex) Corventis Inc.
002234 (base 16) Corventis Inc.
1410 Energy Park Dr. Suite #1
St. Paul Minnesota 55108
US

00-22-32 (hex) Design Design Technology Ltd
002232 (base 16) Design Design Technology Ltd
Unit 9, Ash Road South
Wrexham North Wales LL13 9UG
GB

00-22-2B (hex) Nucomm, Inc.
00222B (base 16) Nucomm, Inc.
101 Bilby Road
Hackettstown NJ 07840
US

00-22-4E (hex) SEEnergy
Corp.
00224E (base 16) SEEnergy Corp.
4F, No.61, Dongsing RD.
Taipei 110
TW

00-22-45 (hex) Leine & Linde AB
002245 (base 16) Leine & Linde AB
Box 8

Strängnäs Södermanland SE-645 21
SE

00-22-49 (hex) HOME MULTIENERGY SL
002249 (base 16) HOME MULTIENERGY SL
Capitán HAYA 1
MADRID 28020
ES

00-22-0F (hex) MoCA (Multimedia over Coax Alliance)
00220F (base 16) MoCA (Multimedia over Coax Alliance)
90 Inverness Circle East
Englewood CA 94583
US

00-22-0A (hex) OnLive, Inc
00220A (base 16) OnLive, Inc
1091 N Shoreline Blvd
Mountainview California 94043
US

00-22-6B (hex) Cisco-Linksys, LLC
00226B (base 16) Cisco-Linksys, LLC
121 Theory Drive
Irvine California 92612
US

00-22-67 (hex) Nortel Networks
002267 (base 16) Nortel Networks
2221 Lakeside Blvd
Richardson TX 75081
US

00-22-5A (hex) Garde Security AB
00225A (base 16) Garde
Security AB
Box 78
Soderhamn S-826 22
SE

00-22-55 (hex) Cisco Systems, Inc
002255 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-22-1B (hex) Morega Systems
00221B (base 16) Morega Systems

5770 Hurontario Street
Mississauga Ontario L5R 3G5
CA

00-21-87 (hex) Imacs GmbH
002187 (base 16) Imacs GmbH
Mittelfeldstrasse 25
Kornwestheim Germany D-70806
DE

00-21-81 (hex) Si2 Microsystems Limited
002181 (base 16) Si2 Microsystems Limited
No 84, Sy No 150, EPIP, Whitefield Industrial Area
Bangalore Karnataka 560066
IN

00-21-7E (hex) Telit Communication s.p.a
00217E (base 16) Telit Communication s.p.a
Via stazione di prosecco 5B
SGONICO Trieste 34010
IT

00-21-F7 (hex) HPN Supply Chain
0021F7 (base 16) HPN Supply Chain
8000 Foothills Blvd
Roseville CA 95747
US

00-21-F4 (hex) INRange Systems, Inc
0021F4 (base 16) INRange
Systems, Inc
3316 5th Avenue, Suite 100
Altoona PA 16602
US

00-21-F5 (hex) Western Engravers Supply, Inc.
0021F5 (base 16) Western Engravers Supply, Inc.
17621 N Black Canyon Highway
Phoenix AZ 85023
US

00-21-AC (hex) Infrared Integrated Systems Ltd
0021AC (base 16) Infrared Integrated Systems Ltd
Park Circle, Tithe Barn Way
Northampton Northants NN4 9BG
GB

00-21-A2 (hex) EKE-Electronics Ltd.

0021A2 (base 16) EKE-Electronics Ltd.
Piispanportti 7
ESPOO 02240
FI

00-21-E4 (hex) I-WIN
0021E4 (base 16) I-WIN
27 Rue des Econdeaux
EPINAY SUR SEINE Seine Saint Denis 93800
FR

00-21-E5 (hex) Display Solution AG
0021E5 (base 16) Display Solution AG
Talhofstraße 32a
Gilching D 82205
DE

00-21-E2 (hex) visago Systems & Controls GmbH & Co. KG
0021E2 (base 16) visago Systems & Controls GmbH & Co. KG
Neuwiesenstraße 20
Weilheim an der Teck D-73235
DE

00-21-DD
(hex) Northstar Systems Corp
0021DD (base 16) Northstar Systems Corp
5F, No.200 Gang Qian Rd
Taipei 114
TW

00-21-8E (hex) MEKICS CO., LTD.
00218E (base 16) MEKICS CO., LTD.
Industrial Zone 861-10, Taegye-Dong
Chunchon Kangwon 200-944
KR

00-21-8F (hex) Avantgarde Acoustic Lautsprechersysteme GmbH
00218F (base 16) Avantgarde Acoustic Lautsprechersysteme GmbH
Nibelungenstraße 349
Lautertal - Reichenbach Hessen D-64686
DE

00-22-03 (hex) Glensound Electronics Ltd
002203 (base 16) Glensound Electronics Ltd
1 - 6 Brooks Place
Maidstone Kent ME17 1UN
GB

00-22-04 (hex) KORATEK
002204 (base 16) KORATEK
Geumjeong-dong
Gunpo-si Gyeonggi-do 435-825
KR

00-21-FF (hex) Cyfrowy Polsat SA
0021FF (base 16) Cyfrowy Polsat SA
ubinowa
Warsaw Mazowieckie 03-878
PL

00-21-C9 (hex) Wavecom Asia Pacific Limited
0021C9 (base 16) Wavecom Asia Pacific
Limited
201 Bio-Informatics Centre, No.2 Science Park West Ave

HK

00-21-C2 (hex) GL Communications Inc
0021C2 (base 16) GL Communications Inc
818 West Diamond Ave
Gaithersburg MD 20878
US

00-21-B2 (hex) Fiberblaze A/S
0021B2 (base 16) Fiberblaze A/S
Kildevangsvej 9
Roskilde 4000
DK

00-21-D5 (hex) X2E GmbH
0021D5 (base 16) X2E GmbH
Raiffeisenstrasse 9
Winden Rheinland-Pfalz 76872
DE

00-21-4A (hex) Pixel Velocity, Inc
00214A (base 16) Pixel Velocity, Inc
3917 Research Park Dr.
Ann Arbor MI 48108
US

00-21-46 (hex) Sanmina-SCI
002146 (base 16) Sanmina-SCI
13000 South Memorial Parkway
Huntsville AL 35803
US

00-21-42 (hex) Advanced Control Systems doo
002142 (base 16) Advanced Control Systems doo
Bulevar Zorana Djindjica 8a
Belgrade Serbia 11070
YU

00-21-6E (hex) Function ATI (Huizhou) Telecommunications Co., Ltd.
00216E (base
16) Function ATI (Huizhou) Telecommunications Co., Ltd.
No. 8, Huitai Road, Huitai Industrial Zone
Huizhou City Guangdong Province 516006
CN

00-21-1F (hex) SHINSUNG DELTATECH CO.,LTD.
00211F (base 16) SHINSUNG DELTATECH CO.,LTD.
44-10
CHANGWON-CITY KYUNGNAM-DO 641-290
KR

00-21-24 (hex) Optos Plc
002124 (base 16) Optos Plc
Queensferry House
Dunfermline Fife KY11 8GR
GB

00-21-17 (hex) Tellord
002117 (base 16) Tellord
Gurogu Gurodong 170-5 Woolim e-Biz Center 709
Seoul 152-050
KR

00-21-01 (hex) Aplicaciones Electronicas Quasar (AEQ)
002101 (base 16) Aplicaciones Electronicas Quasar (AEQ)
C/Rey Pastor 40
Leganes Madrid 28914
ES

00-21-03 (hex) GHI Electronics, LLC
002103 (base 16) GHI Electronics, LLC
35555 Garfield Rd.
Clinton Township MI 48035
US

00-1F-F8 (hex) Siemens AG, Sector Industry, Drive Technologies, Motion Control Systems
001FF8 (base 16) Siemens
AG, Sector Industry, Drive Technologies, Motion Control Systems
Frauenauracherstraße 80

Erlangen Bavaria 91056
DE

00-21-30 (hex) Keico Hightech Inc.
002130 (base 16) Keico Hightech Inc.
Ace twin tower I, 12th Fl.
Seoul 152-050
KR

00-21-33 (hex) Building B, Inc
002133 (base 16) Building B, Inc
1000 NW 65th Street, Suite 300
Ft. Lauderdale FL 33309
US

00-21-34 (hex) Brandywine Communications
002134 (base 16) Brandywine Communications
1153 Warner Ave
Tustin CA 92780
US

00-21-6D (hex) Soltech Co., Ltd.
00216D (base 16) Soltech Co., Ltd.
#30-3,3F
Yongsan Ku Seoul 140837
KR

00-21-65 (hex) Presstek Inc.
002165 (base 16) Presstek Inc.
55 Executive Drive
Hudson New Hampshire 03051
US

00-21-3A (hex) Winchester Systems Inc.
00213A (base 16) Winchester Systems Inc.
101 Billerica Avenue
Billerica, MA 01862
US

00-21-2E (hex) dresden-elektronik
00212E
(base 16) dresden-elektronik
Enno-Heidebroek-Str. 12
Dresden Saxony D-01237
DE

00-21-0F (hex) Cernium Corp
00210F (base 16) Cernium Corp

1943 Isaac Newton Sq
Reston VA 20190
US

00-21-5B (hex) SenseAnywhere
00215B (base 16) SenseAnywhere
Lisztlaan 2
Roosendaal 4702 KJ
NL

00-21-4E (hex) GS Yuasa Power Supply Ltd.
00214E (base 16) GS Yuasa Power Supply Ltd.
1, Inobanba-cho, Nishinosho, Kisshoin, Minami-ku,
Kyoto 601-8520
JP

00-1F-90 (hex) Actiontec Electronics, Inc
001F90 (base 16) Actiontec Electronics, Inc
3301 Olcott St.
Santa Clara CA 95054
US

00-1F-91 (hex) DBS Lodging Technologies, LLC
001F91 (base 16) DBS Lodging Technologies, LLC
21196 Limber
Mission Viejo CA 92692
US

00-1F-98 (hex) DAIICHI-DENTSU LTD.
001F98 (base 16) DAIICHI-DENTSU LTD.
OOMORI 690-1
KANI GIFU 509-0238
JP

00-1F-93 (hex) Xiotech Corporation
001F93
(base 16) Xiotech Corporation
6455 Flying Cloud Drive
Eden Prairie MN 55344
US

00-1F-D1 (hex) OPTEX CO.,LTD.
001FD1 (base 16) OPTEX CO.,LTD.
5-8-12
Otsu Shiga 520-0101
JP

00-1F-C9 (hex) Cisco Systems, Inc

001FC9 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1F-FA (hex) Coretree, Co, Ltd
001FFA (base 16) Coretree, Co, Ltd
#502 IT Venture Town, 694
Daejeon 305-510
KR

00-1F-F5 (hex) Kongsberg Defence & Aerospace
001FF5 (base 16) Kongsberg Defence & Aerospace
Kirkegaardsveien 45 P.O.Box 1003
Kongsberg NO-3601
NO

00-1F-F2 (hex) VIA Technologies, Inc.
001FF2 (base 16) VIA Technologies, Inc.
1F, 531, Chung-Cheng Road
Hsin-Tien Taipei 231
TW

00-1F-A3 (hex) T&W Electronics(Shenzhen)Co.,Ltd.
001FA3 (base 16) T&W Electronics(Shenzhen)Co.,Ltd.
2F,Baiying Building, No.1019,
ShenZhen GuangDong 518067
CN

00-1F-A2
(hex) Datron World Communications, Inc.
001FA2 (base 16) Datron World Communications, Inc.
3030 Enterprise Court
Vista California 92081
US

00-1F-F1 (hex) Paradox Hellas S.A.
001FF1 (base 16) Paradox Hellas S.A.
3 Korinthoy St
Athens Attiki 14451
GR

00-1F-E6 (hex) Alphion Corporation
001FE6 (base 16) Alphion Corporation
196 Princeton Hightstown Rd.
Princeton Junction NJ 08550
US

00-1F-DC (hex) Mobile Safe Track Ltd
001FDC (base 16) Mobile Safe Track Ltd
Niemenkatu 73
15149 Lahti
FI

00-1F-A9 (hex) Atlanta DTH, Inc.
001FA9 (base 16) Atlanta DTH, Inc.
5388 New Peachtree Rd
Chamblee GA 30341
US

00-1F-CF (hex) MSI Technology GmbH
001FCF (base 16) MSI Technology GmbH
Hanauer Landstraße 328-330
Frankfurt am Main Hessen 60314
DE

00-1F-2A (hex) ACCM
001F2A (base 16) ACCM
Obour Industrial City, Industrial zone A, lot14, block 12006.
Cairo

EG

00-1F-30 (hex) Travelping
001F30 (base 16) Travelping

Chemnitz Saxony 09113
DE

00-1F-24 (hex) DIGITVIEW TECHNOLOGY CO., LTD.
001F24 (base 16) DIGITVIEW TECHNOLOGY CO., LTD.
NO. 14-22, TIAN-FU ,
TAIPEI COUNTY 237
TW

00-1F-21 (hex) Inner Mongolia Yin An Science & Technology Development Co.,L
001F21 (base 16) Inner Mongolia Yin An Science & Technology Development Co.,L
YinAn Building Yiwei Road.RuYi
Beijing 010010
CN

00-1F-22 (hex) Source Photonics, Inc.
001F22 (base 16) Source Photonics, Inc.
20550 Nordhoff Street
Chatsworth CA 91311
US

00-1F-1D (hex) Atlas Material Testing Technology LLC
001F1D (base 16) Atlas Material Testing Technology LLC
4114 N. Ravenswood Ave.
Chicago IL 60613
US

00-1F-51 (hex) HD Communications Corp
001F51 (base 16) HD Communications Corp
2180 Fifth Ave
Ronkonkoma NY 11779
US

00-1F-53 (hex) GEMAC Chemnitz GmbH
001F53
(base 16) GEMAC Chemnitz GmbH
Zwickauer Straße 227
Chemnitz Sachsen 09116
DE

00-1F-4C (hex) Roseman Engineering Ltd
001F4C (base 16) Roseman Engineering Ltd
65 Weizman Street
Givataim Israel 53468
IL

00-1F-50 (hex) Swissdis AG
001F50 (base 16) Swissdis AG
Grasweg 7
Schwarzhaeusern BE 4911
CH

00-1F-48 (hex) Mojix Inc.
001F48 (base 16) Mojix Inc.
11075 Santa Monica Blvd.
Los Angeles Ca 90025
US

00-1F-3E (hex) RP-Technik e.K.
001F3E (base 16) RP-Technik e.K.
Hermann-Staudinger-Str. 10-16
Rodgau Hessen 63110
DE

00-1F-04 (hex) Granch Ltd.
001F04 (base 16) Granch Ltd.
40 Koroleva str.
Novosibirsk NSO 630015

RU

00-1E-F0 (hex) Gigafin Networks
001EF0 (base 16) Gigafin Networks
19050 Pruneridge
Cupertino CA 95014
US

00-1E-F2 (hex) Micro Motion Inc
001EF2 (base 16) Micro Motion Inc
7070 Winchester Circle
Boulder CO
80301
US

00-1F-37 (hex) Genesis I&C
001F37 (base 16) Genesis I&C
#515 lisantekeunotaun
Goyang Gyeonggi 410-722
KR

00-1F-2C (hex) Starbridge Networks
001F2C (base 16) Starbridge Networks
3265 Meridian Parkway
Weston FL 33331
US

00-1F-31 (hex) Radiocomp
001F31 (base 16) Radiocomp
Krakesvej 17
Hilleroed Copenhagen 3400
DK

00-1F-2B (hex) Orange Logic
001F2B (base 16) Orange Logic
#706 AceTechnoTower 10-cha,470-5
SEOUL 153-789
KR

00-1F-15 (hex) Bioscrypt Inc
001F15 (base 16) Bioscrypt Inc
505 Cochrane Drive
Markham Ontario L3R 8E3
CA

00-1F-70 (hex) Botik Technologies LTD
001F70 (base 16) Botik Technologies LTD
Trudovaya, 1

Pereslavl-Zalessky Yaroslavskaya 152020
RU

00-1F-6D (hex) Cisco Systems, Inc
001F6D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1F-64 (hex) Beijing Autelan Technology Inc.
001F64
(base 16) Beijing Autelan Technology Inc.
Room B-12B01, Keshi Plaza, Xinxi road,
Beijing 100085
CN

00-1E-EA (hex) Sensor Switch, Inc.
001EEA (base 16) Sensor Switch, Inc.
900 Northrop Road
Wallingford CT 06492
US

00-1E-98 (hex) GreenLine Communications
001E98 (base 16) GreenLine Communications
Alrabiah - Alrabeea Street
Amman Central Region 11953
JO

00-1E-9A (hex) HAMILTON Bonaduz AG
001E9A (base 16) HAMILTON Bonaduz AG
Via Crusch 8
Bonaduz Graubuenden 7402
CH

00-1E-94 (hex) SUPERCOM TECHNOLOGY CORPORATION
001E94 (base 16) SUPERCOM TECHNOLOGY CORPORATION
8F, NO 100-1, Ming-Chuan Rd.
Shing Tien Taipei 231
TW

00-1E-A6 (hex) Best IT World (India) Pvt. Ltd.
001EA6 (base 16) Best IT World (India) Pvt. Ltd.
87/70/93 Mistry Industrial Complex,
Mumbai Maharashtra 400093
IN

00-1E-A5 (hex) ROBOTOUS, Inc.
001EA5 (base 16) ROBOTOUS, Inc.

Nex Center-201(Lab.),
SK n Technopark
Seongnam-si Gyeonggi-do 462-120
KR

00-1E-A7 (hex) Actiontec Electronics, Inc
001EA7 (base 16) Actiontec Electronics, Inc
3301 Olcott St.
Santa Clara CA 95054
US

00-1E-A0 (hex) XLN-t
001EA0 (base 16) XLN-t
Hoogstraat 52
Putte Antwerp B2580
BE

00-1E-83 (hex) LAN/MAN Standards Association (LMSC)
001E83 (base 16) LAN/MAN Standards Association (LMSC)
IEEE 802.1 Chair, c/o RAC Administrator IEEE
Piscataway NJ 08854
US

00-1E-7C (hex) Taiwick Limited
001E7C (base 16) Taiwick Limited
5/F., Block E, Hing Yip Factory Bldg.,
Hong Kong China 852
HK

00-1E-78 (hex) Owitek Technology Ltd.,
001E78 (base 16) Owitek Technology Ltd.,
No.2, Lane 78, Cingshan 6th St.,
Taoyuan County 32657
TW

00-1E-7A (hex) Cisco Systems, Inc
001E7A (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1E-62 (hex) Siemon
001E62
(base 16) Siemon
27 Siemon Company Drive
Watertown CT 06795
US

00-1E-5C (hex) RB GeneralEkonomik
001E5C (base 16) RB GeneralEkonomik
Bulevar despota stefana 59a
Beograd Serbia 11000
YU

00-1E-5D (hex) Holosys d.o.o.
001E5D (base 16) Holosys d.o.o.
Kovinska 4
Zagreb 10090
HR

00-1E-60 (hex) Digital Lighting Systems, Inc
001E60 (base 16) Digital Lighting Systems, Inc
12302 Sw 128th ct, #105
Miami FL 33186
US

00-1E-DF (hex) Master Industrialization Center Kista
001EDF (base 16) Master Industrialization Center Kista
Torshamnsgatan 36
Stockholm SE-164 80
SE

00-1E-E3 (hex) T&W Electronics (ShenZhen) Co.,Ltd
001EE3 (base 16) T&W Electronics (ShenZhen) Co.,Ltd
2F Baiying Building, No.19, NanhaiRd., Nanshan Dist
ShenZhen GuangDong 518052
CN

00-1E-D9 (hex) Mitsubishi Precision Co.,LTd.
001ED9 (base 16) Mitsubishi Precision Co.,LTd.
345 KAMIMACHIYA
KAMAKURA-City
KANAGAWA-Prefecture 247-8505
JP

00-1E-6C (hex) Opaque Systems
001E6C (base 16) Opaque Systems
4820 Fisher Road
Athens OH 45701
US

00-1E-D3 (hex) Dot Technology Int'l Co., Ltd.
001ED3 (base 16) Dot Technology Int'l Co., Ltd.
Unit 1001, Fourseas Building 208-212, Nathan Road
Kowloon
HK

00-1E-CF (hex) PHILIPS ELECTRONICS UK LTD
001ECF (base 16) PHILIPS ELECTRONICS UK LTD
PHILIPS CENTRE
GUILDFORD SURREY GU2 8XH
GB

00-1E-8F (hex) CANON INC.
001E8F (base 16) CANON INC.
3-30-2
Ohta-Ku Tokyo 146-8501
JP

00-1D-E8 (hex) Nikko Denki Tsushin Corporation(NDTC)
001DE8 (base 16) Nikko Denki Tsushin Corporation(NDTC)
440 Kamoshida-town, Aoba-ku
Yokohama 227-0033
JP

00-1D-DA (hex) Mikroelektronika spol. s r. o.
001DDA (base 16) Mikroelektronika spol. s r. o.
Dráby 849
Vysoké Mýto CZ 566 01
CZ

00-1D-E3 (hex) Intuicom
001DE3 (base 16) Intuicom
4900
Nautilus CT N
Boulder CO 80301
US

00-1D-DE (hex) Zhejiang Broadcast&Television Technology Co.,Ltd.
001DDE (base 16) Zhejiang Broadcast&Television Technology Co.,Ltd.
Building No.16,Xidoumen Industry Park,Wenyi Road,
Hangzhou Zhejiang 310012
CN

00-1D-E5 (hex) Cisco Systems, Inc
001DE5 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1E-1A (hex) Best Source Taiwan Inc.
001E1A (base 16) Best Source Taiwan Inc.
2F, No.16, Lane 56, Jhongjheng W. Rd.,
Jhubei City, Hsinchu County 302

TW

00-1E-19 (hex) GTRI
001E19 (base 16) GTRI
M/S 0821
Atlanta GA 30332
US

00-1E-14 (hex) Cisco Systems, Inc
001E14 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1E-36 (hex) IPTE
001E36 (base 16) IPTE
Geleenlaan 5
Genk Limburg 3600
BE

00-1E-27 (hex) SBN TECH Co.,Ltd.
001E27 (base 16) SBN
TECH Co.,Ltd.
#706 Industrial Academic Center, Konkuk University, Hwayang-dong, Gwangjin-gu
Seoul 143-701
KR

00-1E-22 (hex) ARVOO Imaging Products BV
001E22 (base 16) ARVOO Imaging Products BV
Tasveld 13
Montfoort UT 3417 XS
NL

00-1D-CB (hex) Exéns Development Oy
001DCB (base 16) Exéns Development Oy
Kauppakatu 36
Kajaani Kainuu 87100
FI

00-1D-CA (hex) PAV Electronics Limited
001DCA (base 16) PAV Electronics Limited
7 Laverock Road
Airdrie Lanarkshire ML6 7UD
GB

00-1D-C2 (hex) XORTEC OY
001DC2 (base 16) XORTEC OY
Höytämöntie 6

Lempäälä Pirkanmaa 33880
FI

00-1E-44 (hex) SANTEC
001E44 (base 16) SANTEC
An der Strusbek 31
Ahrensburg Schleswig Holstein 22926
DE

00-1E-0E (hex) MAXI VIEW HOLDINGS LIMITED
001E0E (base 16) MAXI VIEW HOLDINGS LIMITED
Suite 2302,23/F Great Eagle Centre, 23 Harbour Road, Wanchai
Hong Kong
CN

00-1E-0F (hex) Briot
International
001E0F (base 16) Briot International
2 rue roger Bonnet
Pont de l'Arche Eure 27340
FR

00-1D-FE (hex) Palm, Inc
001DFE (base 16) Palm, Inc
950 West Maude Ave
Sunnyvale CA 94085
US

00-1D-F5 (hex) Sunshine Co,LTD
001DF5 (base 16) Sunshine Co,LTD
1-3-5 Kojimachi
TOKYO Kanto region 102-0083
JP

00-1D-F0 (hex) Vidient Systems, Inc.
001DF0 (base 16) Vidient Systems, Inc.
4000 Burton Drive
Santa Clara CA 94054
US

00-1D-EC (hex) Marusys
001DEC (base 16) Marusys
Eunsung Bldg. 5F
Seoul 135-763
KR

00-1D-B8 (hex) Intoto Inc.
001DB8 (base 16) Intoto Inc.

3100 De La Cruz Blvd. #300
Santa Clara CA 95054
US

00-1E-2F (hex) DiMoto Pty Ltd
001E2F (base 16) DiMoto Pty Ltd
7 Meljaren Place
Buderim Queensland 4556
AU

00-1D-A7 (hex) Seamless Internet
001DA7 (base 16) Seamless Internet
2050 Russett Way Suite 338
Carson
City Nevada 89703
US

00-1D-A8 (hex) Takahata Electronics Co.,Ltd
001DA8 (base 16) Takahata Electronics Co.,Ltd
1188,Kubota,Kubota-machi
Yonezawa-shi Yamagata-Pref. 992-0003
JP

00-1D-A9 (hex) Castles Technology, Co., LTD
001DA9 (base 16) Castles Technology, Co., LTD
2F, No.205, Sec 3 Beishin Rd.,
Hsin-Tien City Taipei 231
TW

00-1D-A5 (hex) WB Electronics
001DA5 (base 16) WB Electronics
Langelandsvej 1A
Herning Herning 7400
DK

00-1D-A1 (hex) Cisco Systems, Inc
001DA1 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1D-96 (hex) WatchGuard Video
001D96 (base 16) WatchGuard Video
3001 Summit Ave.
Plano TX 75074
US

00-1D-55 (hex) ZANTAZ, Inc

001D55 (base 16) ZANTAZ, Inc
5758 W. Las Positas Avenue
Pleasanton CA 94588
US

00-1D-52 (hex) Defzone B.V.
001D52 (base 16) Defzone B.V.
Transportcentrum 10
Enschede
Overijssel 7547 RW
NL

00-1D-4A (hex) Carestream Health, Inc.
001D4A (base 16) Carestream Health, Inc.
150 Verona Street
Rochestser NY 14608
US

00-1D-8F (hex) PureWave Networks
001D8F (base 16) PureWave Networks
2660-C Marine Way
Mountain View CA 94043
US

00-1D-8C (hex) La Crosse Technology LTD
001D8C (base 16) La Crosse Technology LTD
2809 Losey Blvd. So.
La Crosse WI 54601
US

00-1D-71 (hex) Cisco Systems, Inc
001D71 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1D-65 (hex) Microwave Radio Communications
001D65 (base 16) Microwave Radio Communications
101 Billerica Avemue, Bldg 6
N. Billerica MA 01862
US

00-1D-64 (hex) Adam Communications Systems Int Ltd
001D64 (base 16) Adam Communications Systems Int Ltd
The Mission
Stockport Cheshire SK1 3AH
GB

00-1D-5E (hex) COMING MEDIA CORP.
001D5E (base 16) COMING MEDIA
CORP.
BONA Bld. 4th Fl., 548-18
Seoul 135-158
KR

00-1D-50 (hex) SPINETIX SA
001D50 (base 16) SPINETIX SA
Parc Scientifique de l'EPFL, Bâtiment C
Lausanne VD 1015
CH

00-1D-45 (hex) Cisco Systems, Inc
001D45 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1D-36 (hex) ELECTRONICS CORPORATION OF INDIA LIMITED
001D36 (base 16) ELECTRONICS CORPORATION OF INDIA LIMITED
CONTROL AND AUTOMATION DIVISION-3
HYDERABAD ANDHRA PRADESH 500 062
IN

00-1D-B0 (hex) FuJian HengTong Information Technology Co.,Ltd
001DB0 (base 16) FuJian HengTong Information Technology Co.,Ltd
No.14-804,Building 2,JinXiuFuCheng,No.338,HuaLin Road
FuZhou City FuJian Province 350001
CN

00-1D-69 (hex) Knorr-Bremse IT-Services GmbH
001D69 (base 16) Knorr-Bremse IT-Services GmbH
Moosacher Str. 80
Muenchen BY 80809
DE

00-1D-07 (hex) Shenzhen Sang Fei Consumer Communications
Co.,Ltd
001D07 (base 16) Shenzhen Sang Fei Consumer Communications Co.,Ltd
11 Science and Technology Road,
Shenzhen Guangdong 518057
CN

00-1D-06 (hex) HM Electronics, Inc.
001D06 (base 16) HM Electronics, Inc.
14110 Stowe Drive
Poway CA 92064

US

00-1D-01 (hex) Neptune Digital
001D01 (base 16) Neptune Digital
Mednarodni mejni prehod 6
Vrtojba Nova Gorica 5290
SI

00-1C-F8 (hex) Parade Technologies, Ltd.
001CF8 (base 16) Parade Technologies, Ltd.
C/O Parade Technologies, Inc.
Sunnyvale CA 94085
US

00-1C-F7 (hex) AudioScience
001CF7 (base 16) AudioScience
729 west 16th st
Costa Mesa California 92627
US

00-1C-F6 (hex) Cisco Systems, Inc
001CF6 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1D-33 (hex) Maverick Systems Inc.
001D33 (base 16) Maverick Systems Inc.
908, Daerungposttower 2-cha, 182-13
Seoul 152-790
KR

00-1D-2C
(hex) Wavetrend Technologies (Pty) Limited
001D2C (base 16) Wavetrend Technologies (Pty) Limited
Wavetrend House, Building 816/3
Gauteng 2021
ZA

00-1C-CF (hex) LIMETEK
001CCF (base 16) LIMETEK
#213-1, Byucksan Digital Valley II, 480-10, Gasan-dong,
Seoul 153-783
KR

00-1C-CA (hex) Shanghai Gaozhi Science & Technology Development Co.
001CCA (base 16) Shanghai Gaozhi Science & Technology Development Co.
No.283 Qin Jiang Rd. Shanghai,China

Shanghai 200233
CN

00-1C-AD (hex) Wuhan Telecommunication Devices Co.,Ltd
001CAD (base 16) Wuhan Telecommunication Devices Co.,Ltd
88 Youkeyuan Road,Hongshan District
Wuhan Hubei 430074
CN

00-1C-A7 (hex) International Quartz Limited
001CA7 (base 16) International Quartz Limited
2nd Floor, 2, Dai Wang Street,
Hong Kong 852
CN

00-1C-AB (hex) Meyer Sound Laboratories, Inc.
001CAB (base 16) Meyer Sound Laboratories,
Inc.
2832 San Pablo Ave.
Berkeley CA 94702
US

00-1C-F5 (hex) Wiseblue Technology Limited
001CF5 (base 16) Wiseblue Technology Limited
Rm G5, 5/F, Kingsford Industrial Building Phase II, 26-32 Kwai Hei Street,
Kwai Chung N.T.
HK

00-1C-EE (hex) SHARP Corporation
001CEE (base 16) SHARP Corporation
22-22,Nagaike-cho
Osaka city Osaka prefecture 545-8522
JP

00-1C-C9 (hex) Kaise Electronic Technology Co., Ltd.
001CC9 (base 16) Kaise Electronic Technology Co., Ltd.
No.678, Wunsyue Rd., Zuoying District,
Kaohsiung 813
TW

00-1C-C8 (hex) INDUSTRONIC Industrie-Electronic GmbH & Co. KG
001CC8 (base 16) INDUSTRONIC Industrie-Electronic GmbH & Co. KG
Carl-Jacob-Kolb-Weg 1
Wertheim Baden-Württemberg 97877
DE

00-1C-C6 (hex) ProStor Systems
001CC6 (base 16) ProStor Systems

5555 Central Avenue
Boulder Colorado 80301
US

00-1C-BE (hex) Nintendo Co., Ltd.
001CBE (base 16) Nintendo
Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

00-1D-27 (hex) NAC-INTERCOM
001D27 (base 16) NAC-INTERCOM
AVDA. RICARDO MELLA 123-B
VIGO PONTEVEDRA 36330
ES

00-1D-24 (hex) Aclara Power-Line Systems Inc.
001D24 (base 16) Aclara Power-Line Systems Inc.
945 Hornet Drive
Hazelwood MO 63042
US

00-1D-18 (hex) Power Innovation GmbH
001D18 (base 16) Power Innovation GmbH
Rehland 2
Achim Niedersachsen 28832
DE

00-1C-E3 (hex) Optimedical Systems
001CE3 (base 16) Optimedical Systems
235 Hembree Park Drive
Roswell GA 30076
US

00-1C-DE (hex) Interactive Multimedia eXchange Inc.
001CDE (base 16) Interactive Multimedia eXchange Inc.
NO. 165 Wenlin Road.
Taipei Taiwan 111
TW

00-1D-1B (hex) Sangean Electronics Inc.
001D1B (base 16) Sangean Electronics Inc.
No. 18, Lane 7, Li-De street
Chung Ho City Taipei Hsien 235
TW

00-1D-17

(hex) Digital Sky Corporation
001D17 (base 16) Digital Sky Corporation
5-5-15 Sotokanda,
Chiyoda-ku Tokyo 101-0021
JP

00-1C-9E (hex) Dualtech IT AB
001C9E (base 16) Dualtech IT AB
Banehagsgatan 1F
GOTHENBURG Västra Götaland 41451
SE

00-1C-94 (hex) LI-COR Biosciences
001C94 (base 16) LI-COR Biosciences
4647 Superior Street
Lincoln NE 68504
US

00-1C-8C (hex) DIAL TECHNOLOGY LTD.
001C8C (base 16) DIAL TECHNOLOGY LTD.
6F-4, NO.18, LANE.609, SEC.5, CHONGSIN RD.,
SANCHONG CITY TAIPEI COUNTY 241
TW

00-1C-48 (hex) WiDeFi, Inc.
001C48 (base 16) WiDeFi, Inc.
1333 Gateway Blvd
Melbourne FL 32901
US

00-1C-46 (hex) QTUM
001C46 (base 16) QTUM
#507 Byucksan/Kyungin Digital Valley 2 481-10
Seoul 153-783
KR

00-1C-42 (hex) Parallels, Inc.
001C42 (base 16) Parallels, Inc.
660 SW 39h Street
Renton WA 98057
US

00-1C-3E (hex) ECKey
Corporation
001C3E (base 16) ECKey Corporation
206A W James St
Lancaster PA 17603
US

00-1C-39 (hex) S Netsystems Inc.
001C39 (base 16) S Netsystems Inc.
10F Sungwon Bldg., 141 Samsung-Dong
Seoul 135-716
KR

00-1C-93 (hex) ExaDigm Inc
001C93 (base 16) ExaDigm Inc
2871 Pullman St
Santa Ana CA 92705
US

00-1C-85 (hex) Eunicorn
001C85 (base 16) Eunicorn
226-16 unbo b/d suckchon-dong songpa-gu
seoul 138845
KR

00-1C-80 (hex) New Business Division/Rhea-Information CO., LTD.
001C80 (base 16) New Business Division/Rhea-Information CO., LTD.
4F 594 Yeong Pung Bldg, Gueui-Dong
Seoul Gwangjin-Gu 143-200
KR

00-1C-83 (hex) New Level Telecom Co., Ltd.
001C83 (base 16) New Level Telecom Co., Ltd.
INNOPLEX 1-703
Seoul 153-803
KR

00-1C-27 (hex) Sunell Electronics Co.
001C27 (base 16) Sunell Electronics Co.
3rd Floor,Bldg.514,BaGua Rd
ShenZhen Guangdong
518029
CN

00-1C-22 (hex) Aeris Elettronica s.r.l.
001C22 (base 16) Aeris Elettronica s.r.l.
Zona Ind.le Vallecupa
Colonnella Teramo 64010
IT

00-1C-1D (hex) CHENZHOU GOSPELL DIGITAL TECHNOLOGY CO.,LTD
001C1D (base 16) CHENZHOU GOSPELL DIGITAL TECHNOLOGY CO.,LTD
BAILUTANG,SUXIAN DISTRICT,
CHENZHOU HUNAN 423025

CN

00-1C-67 (hex) Pumpkin Networks, Inc.
001C67 (base 16) Pumpkin Networks, Inc.
3FL JungHo Bldg, 108-4 Sangdo-Dong, Dongjak-Gu
SEOUL 156-030
KR

00-1C-60 (hex) CSP Frontier Technologies,Inc.
001C60 (base 16) CSP Frontier Technologies,Inc.
3-2-3,Sasazuka
Shibuya-ku Tokyo 151-0073
JP

00-1C-51 (hex) Celeno Communications
001C51 (base 16) Celeno Communications
22 Zarhin Street
Ra'anana 43665
IL

00-1C-0F (hex) Cisco Systems, Inc
001C0F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1C-0A (hex) Shenzhen AEE Technology
Co.,Ltd.
001C0A (base 16) Shenzhen AEE Technology Co.,Ltd.
1st Floor B Building, Shenzhen,
Shenzhen Guangdong 518057
CN

00-1C-0D (hex) G-Technology, Inc.
001C0D (base 16) G-Technology, Inc.
1653 Stanford Street
Santa Monica CA 90404
US

00-1C-76 (hex) The Wandsworth Group Ltd
001C76 (base 16) The Wandsworth Group Ltd
Albert Drive
Woking Surrey GU21 5SE
GB

00-1C-72 (hex) Mayer & Cie GmbH & Co KG
001C72 (base 16) Mayer & Cie GmbH & Co KG
Emil Mayer Strasse 10

Albstadt Baden-Württemberg 72461
DE

00-1C-6A (hex) Weiss Engineering Ltd.
001C6A (base 16) Weiss Engineering Ltd.
Florastrasse 42
Uster ZH 8610
CH

00-1C-37 (hex) Callpod, Inc.
001C37 (base 16) Callpod, Inc.
850 W. Jackson
Chicago IL 60607
US

00-1C-33 (hex) Sutron
001C33 (base 16) Sutron
21300 Ridgetop Cir
Sterling VA 20166
US

00-1C-2F (hex) Pfister GmbH
001C2F (base
16) Pfister GmbH
Stätzlinger SStraße 70
Augsburg Bavaria 86165
DE

00-1C-54 (hex) Hillstone Networks Inc
001C54 (base 16) Hillstone Networks Inc
A-1905 e-Wing Center
Beijing 100086
CN

00-1C-59 (hex) DEVON IT
001C59 (base 16) DEVON IT
1100 FIRST AVENUE
KING OF PRUSSIA PA 19406
US

00-1B-F6 (hex) CONWISE Technology Corporation Ltd.
001BF6 (base 16) CONWISE Technology Corporation Ltd.
2F No.44, Park Ave. 2, Hsinchu Science Park
Hsinchu City 30075
TW

00-1B-F8 (hex) Digitrax Inc.
001BF8 (base 16) Digitrax Inc.

2443 Transmitter Rd,
Panama City FL 32404
US

00-1B-F1 (hex) Nanjing SilverNet Software Co., Ltd.
001BF1 (base 16) Nanjing SilverNet Software Co., Ltd.
3/F, 10 building, Nanjing World Window Technology & Software Park
Nanjing Jiangsu 210013
CN

00-1B-EF (hex) Blossoms Digital Technology Co.,Ltd.
001BEF (base 16) Blossoms Digital Technology Co.,Ltd.
BLK25,Hengfeng
Ind.City,Hezhou
Shenzhen Guangdong 518126
CN

00-1B-EB (hex) DMP Electronics INC.
001BEB (base 16) DMP Electronics INC.
8F., No.12, Wucyuan 7th Rd.,
Taipei County 248
TW

00-1B-E7 (hex) Postek Electronics Co., Ltd.
001BE7 (base 16) Postek Electronics Co., Ltd.
Suite 510, Shanghang Building
Shen Zhen Guang Dong 518028
CN

00-1B-B8 (hex) BLUEWAY ELECTRONIC CO;LTD
001BB8 (base 16) BLUEWAY ELECTRONIC CO;LTD
Workshop B,Dong Feng Village,
HuiZhou GuangDong 516008
CN

00-1B-B2 (hex) Intellect International NV
001BB2 (base 16) Intellect International NV
Kleine Kloosterstraat 23
Zaventem Vlaamse brabant 1932
BE

00-1B-B0 (hex) Bharat Electronics Limited
001BB0 (base 16) Bharat Electronics Limited
JALAHALLI POST
BANGALORE KARNATAKA 560013
IN

00-1B-AD (hex) iControl Incorporated

001BAD (base 16) iControl Incorporated
3235 Kifer Road
Santa Clara
California 95051
US

00-1B-A7 (hex) Lorica Solutions
001BA7 (base 16) Lorica Solutions
275 Northpointe Parkway
Amherst NY 14228
US

00-1B-A5 (hex) MyungMin Systems, Inc.
001BA5 (base 16) MyungMin Systems, Inc.
#410,Doosan Venture Dime 2-cha,1307-37
Kyungki-do 431-060
KR

00-1B-7F (hex) TMN Technologies Telecomunicacoes Ltda
001B7F (base 16) TMN Technologies Telecomunicacoes Ltda
Rua Nilza, 422
São Paulo SP 03651-120
BR

00-1B-7E (hex) Beckmann GmbH
001B7E (base 16) Beckmann GmbH
Brandtstraße 1
Hoevelhof NRW 33161
DE

00-1B-7A (hex) Nintendo Co., Ltd.
001B7A (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

00-1B-A2 (hex) IDS Imaging Development Systems GmbH
001BA2 (base 16) IDS Imaging Development Systems GmbH
Dimbacher Str. 6
Obersulm BW 74182
DE

00-1B-9D (hex) Novus Security Sp. z o.o.
001B9D
(base 16) Novus Security Sp. z o.o.
ul. Puawska 431
Warsaw woj. mazowieckie 02-801
PL

00-1B-95 (hex) VIDEO SYSTEMS SRL
001B95 (base 16) VIDEO SYSTEMS SRL
Loc. Gorizzo, 16
CAMINO AL TAGLIAMENTO UD
IT

00-1B-D5 (hex) Cisco Systems, Inc
001BD5 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1B-CE (hex) Measurement Devices Ltd
001BCE (base 16) Measurement Devices Ltd
Redwood House
York Yorkshire YO266QR
GB

00-1B-C9 (hex) FSN DISPLAY INC
001BC9 (base 16) FSN DISPLAY INC
Baeksuk-Dong 1141-1, Ilsan Techno Town 1009
Koyang-si Kyeonggi-Do 410722
KR

00-1B-C3 (hex) Mobisolution Co.,Ltd
001BC3 (base 16) Mobisolution Co.,Ltd
848-16
Gumi Gyeongbuk 730-300
KR

00-1B-90 (hex) Cisco Systems, Inc
001B90 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1B-87 (hex) Deepsound Tech. Co., Ltd
001B87
(base 16) Deepsound Tech. Co., Ltd
3F No. 576 Sec. 1, Minsheng N. Rd., Gueishan Township,
Taoyuan 333
TW

00-1C-03 (hex) Betty TV Technology AG
001C03 (base 16) Betty TV Technology AG
Hardturmstrasse 2
Zurich 80005

CH

00-1B-E3 (hex) Health Hero Network, Inc.
001BE3 (base 16) Health Hero Network, Inc.
2000 Seaport Blvd.
Redwood City CA 94063
US

00-1B-DC (hex) Vencer Co., Ltd.
001BDC (base 16) Vencer Co., Ltd.
20F-1, No.77, Sec.1, Hsin Tai Wu Rd.,
Hsi Chih Taipei 221
TW

00-1A-FE (hex) SOFACREAL
001AFE (base 16) SOFACREAL
149 avenue du MAINE
PARIS Region Parisienne 75014
FR

00-1A-F1 (hex) Embedded Artists AB
001AF1 (base 16) Embedded Artists AB
Davidshallsgatan 16
Malmoe 21145
SE

00-1A-F8 (hex) Copley Controls Corporation
001AF8 (base 16) Copley Controls Corporation
20 Dan Road
Canton MA 02021
US

00-1A-F5 (hex) PENTAONE. CO., LTD.
001AF5
(base 16) PENTAONE. CO., LTD.
Hyo Chang Bldg, 3F, 1013-6, Inkye-dong Paldal-Gu,
Suwon City Gyunggi-Do 422-833
KR

00-1B-72 (hex) Sicep s.p.a.
001B72 (base 16) Sicep s.p.a.
Via calabria, 14
Certaldo 50052
IT

00-1B-74 (hex) MiraLink Corporation
001B74 (base 16) MiraLink Corporation
111 SW 5th Ave.

Portland OR 97204
US

00-1B-6D (hex) Midtronics, Inc.
001B6D (base 16) Midtronics, Inc.
7000 Monroe St.
Willowbrook IL 60527
US

00-1B-6F (hex) Teletrak Ltd
001B6F (base 16) Teletrak Ltd
214 Kepa Road
Auckland 1071
NZ

00-1B-34 (hex) Focus System Inc.
001B34 (base 16) Focus System Inc.
19F-1, No. 266 Wen Hwa 2nd Rd., Sec. 1
Linkou Taipei County
TW

00-1B-3A (hex) SIMS Corp.
001B3A (base 16) SIMS Corp.
RAON Bldg, 9F, 92-8, Wonhyoro-2ga, Yongsan-gu
Seoul 140-847
KR

00-1B-2E (hex) Sinkyo Electron Inc
001B2E (base 16) Sinkyo Electron
Inc
1-22-19 Daimachi
Hachioji-city Tokyo 193-0931
JP

00-1B-1A (hex) e-trees Japan, Inc.
001B1A (base 16) e-trees Japan, Inc.
Oowada-cho 2-9-2
Hachioji-city Tokyo 150-0001
JP

00-1B-12 (hex) Apprion
001B12 (base 16) Apprion
Nasa Ames Rerearch Center
Moffett Field California 94035
US

00-1B-0D (hex) Cisco Systems, Inc
001B0D (base 16) Cisco Systems, Inc

80 West Tasman Drive
San Jose CA 94568
US

00-1B-0A (hex) Intelligent Distributed Controls Ltd
001B0A (base 16) Intelligent Distributed Controls Ltd
Keynes House, Chester Park
Derby Derbyshire DE21 4AS
GB

00-1B-5F (hex) Alien Technology
001B5F (base 16) Alien Technology
18220 Butterfield Blvd.
Morgan Hill CA 95037
US

00-1B-5E (hex) BPL Limited
001B5E (base 16) BPL Limited
BPL Towers
Bangalore Karnataka 560001
IN

00-1B-61 (hex) Digital Acoustics, LLC
001B61 (base 16) Digital Acoustics,
LLC
37 Sherwood Terrace
Lake Bluff IL 60044
US

00-1B-4B (hex) SANION Co., Ltd.
001B4B (base 16) SANION Co., Ltd.
#208 ACETECHNO TOWER, 55-7, MULLAE-DONG 3GA,
YEONGDEUNGPO-GU SEOUL 150-992
KR

00-1B-4D (hex) Areca Technology Corporation
001B4D (base 16) Areca Technology Corporation
8F., No. 22, Lane 35, Ji-Hu Rd.
Taipei 114
TW

00-1B-2D (hex) Med-Eng Systems Inc.
001B2D (base 16) Med-Eng Systems Inc.
2400 St. Laurent Blvd.
Ottawa Ontario K1G 6C4
CA

00-1B-1D (hex) Phoenix International Co., Ltd

001B1D (base 16) Phoenix International Co., Ltd
11F. No.42-1, Sec.1, Zhongyang N. Rd. Beitou
Taipei 112
TW

00-1B-5C (hex) Azuretec Co., Ltd.
001B5C (base 16) Azuretec Co., Ltd.
3F, No.8, Alley 8, Lane 45, Baoxing Rd., Xindian Dist.,
New Taipei City Taiwan 231
TW

00-1A-E9 (hex) Nintendo Co., Ltd.
001AE9 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO
KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

00-1A-E5 (hex) Mvox Technologies Inc.
001AE5 (base 16) Mvox Technologies Inc.
19050 Pruneridge Ave
Cupertino CA 95014
US

00-1A-E4 (hex) Medicis Technologies Corporation
001AE4 (base 16) Medicis Technologies Corporation
11818 North Creek Parkway N.
Bothell WA 98011
US

00-1A-ED (hex) INCOTEC GmbH
001AED (base 16) INCOTEC GmbH
Blomestrasse 25 - 27
Bielefeld NRW 33609
DE

00-1A-EE (hex) Shenztech Ltd
001AEE (base 16) Shenztech Ltd
813, 8F, HOLLYWOOD PLAZA, 610 NATHAN ROAD,
KOWLOON 852
HK

00-1A-E3 (hex) Cisco Systems, Inc
001AE3 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1A-DF (hex) Interactivetv Pty Limited
001ADF (base 16) Interactivetv Pty Limited
Suite 10 Level 3
Pyrmont, Sydney NSW 2009
US

00-1A-E1 (hex) EDGE ACCESS INC
001AE1 (base 16) EDGE ACCESS INC
5440
BEAUMONT CENTER BLVD
TAMPA FL 33634
US

00-1A-C0 (hex) JOYBIEN TECHNOLOGIES CO., LTD.
001AC0 (base 16) JOYBIEN TECHNOLOGIES CO., LTD.
14F-7, NO.2, JIAN 8TH RD.,
NEW TAIPEI CITY TAIWAN 23511
TW

00-1A-C2 (hex) YEC Co.,Ltd.
001AC2 (base 16) YEC Co.,Ltd.
543-9 Tsuruma
Machida Tokyo 194-0004
JP

00-1A-B1 (hex) Asia Pacific Satellite Industries Co., Ltd.
001AB1 (base 16) Asia Pacific Satellite Industries Co., Ltd.
9th FL, IT Castle 2-Dong, #550-1, Gasan-Dong, GeumCheon-Gu,
Seoul 153-768
KR

00-1A-B2 (hex) Cyber Solutions Inc.
001AB2 (base 16) Cyber Solutions Inc.
6-6-3, Minami Yoshinari
Sendai Miyagi-ken 989-3204
JP

00-1A-B7 (hex) Ethos Networks LTD.
001AB7 (base 16) Ethos Networks LTD.
2 Maskit St.
Herzlia 46766
IL

00-1A-A2 (hex) Cisco Systems, Inc
001AA2 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1A-A5 (hex) BRN
Phoenix
001AA5 (base 16) BRN Phoenix
2500 Augustine Drive, Suite 200
Santa Clara CA 95054
US

00-1A-97 (hex) fitivision technology Inc.
001A97 (base 16) fitivision technology Inc.
8F, No. 356, Sec. 1, Neihu Rd
Taipei 114
TW

00-1A-90 (hex) Trópico Sistemas e Telecomunicações da Amazônia LTDA.
001A90 (base 16) Trópico Sistemas e Telecomunicações da Amazônia LTDA.
Rod. Campinas-Mogi-Mirim (SP 340) Km 118,5
Campinas São Paulo 13.086-902
BR

00-1A-94 (hex) Votronic GmbH
001A94 (base 16) Votronic GmbH
Saarbruecker Str. 8
St. Ingbert Saarland 66386
DE

00-1A-86 (hex) New Wave Design & Verification
001A86 (base 16) New Wave Design & Verification
4950 W 78th St.
Minneapolis MN 55435
US

00-1A-D2 (hex) Eletronica Nitron Ltda
001AD2 (base 16) Eletronica Nitron Ltda
Rua Dr. Ulisses Escobar 415
Camanducaia Minas Gerais 37650-000
BR

00-1A-CE (hex) YUPITERU
CORPORATION
001ACE (base 16) YUPITERU CORPORATION
3, Dannoue, Iwazu-cho, Okazaki-city, Aichi
Okazaki Aichi 444-2144
JP

00-1A-CC (hex) Celestial Semiconductor, Ltd
001ACC (base 16) Celestial Semiconductor, Ltd
Ugland House, South Church Street,

George Town, Cayman Islands 00000
KY

00-1A-C7 (hex) UNIPOINT
001AC7 (base 16) UNIPOINT
7F Gwangsung Bld 831-47 YeokSam-Dong
Seoul 135-936
KR

00-1A-9C (hex) RightHand Technologies, Inc.
001A9C (base 16) RightHand Technologies, Inc.
7450 W Wilson Avenue
Chicago IL 60706
US

00-1A-9E (hex) ICON Digital International Limited
001A9E (base 16) ICON Digital International Limited
Suite2209, 22/F., SkyLine Tower,

CN

00-1A-98 (hex) Asotel Communication Limited Taiwan Branch
001A98 (base 16) Asotel Communication Limited Taiwan Branch
3G17, No5, Hsin Yi Road, Sec. 5
Taipei 110
TW

00-1A-7E (hex) LN Srithai Comm Ltd.
001A7E
(base 16) LN Srithai Comm Ltd.
71/12 M.5, Bangna-Trad Rd, KM.52, Thakam
Bangpakong Chachoengsao 24130
TH

00-1A-38 (hex) Sanmina-SCI
001A38 (base 16) Sanmina-SCI
13000 South Memorial Parkway
Huntsville AL 35803
US

00-1A-2B (hex) Ayecom Technology Co., Ltd.
001A2B (base 16) Ayecom Technology Co., Ltd.
No. 25, R&D Road 2, Science-Based Industrial Park
Hsinchu 300
TW

00-1A-28 (hex) ASWT Co., LTD. Taiwan Branch H.K.
001A28 (base 16) ASWT Co., LTD. Taiwan Branch H.K.

7F., No.3 Lane 91, Dongmei Rd.
Hsinchu 30070
TW

00-1A-2C (hex) SATEC Co.,LTD
001A2C (base 16) SATEC Co.,LTD
358-4, Palgok2-Dong, Sangnok-Gu
Ansan-Si Kyungki-Do 426-190
KR

00-1A-27 (hex) Ubistar
001A27 (base 16) Ubistar
8F, Seongo Building, 587-23
Seoul 135-747
KR

00-1A-2E (hex) Ziova Coporation
001A2E (base 16) Ziova Coporation
Unit 3, 7-9 Sherriffs road
Lonsdale S.A. 5160
AU

00-1A-32
(hex) ACTIVA MULTIMEDIA
001A32 (base 16) ACTIVA MULTIMEDIA
SICP CSE
SANT JOAN DESPI BARCELONA 08970
ES

00-1A-35 (hex) BARTEC GmbH
001A35 (base 16) BARTEC GmbH
Max-Eyth-Straße 16
Bad Mergentheim Bavaria 97980
DE

00-1A-37 (hex) Lear Corporation
001A37 (base 16) Lear Corporation
Industriestrasse 48
Kronach Bayern 96317
DE

00-1A-5A (hex) Korea Electric Power Data Network (KDN) Co., Ltd
001A5A (base 16) Korea Electric Power Data Network (KDN) Co., Ltd
665 NAESON-DONG,
GYEONGGI-DO UIWANG-SI, NAESON-DONG 437-082
KR

00-1A-5F (hex) KitWorks.fi Ltd.

001A5F (base 16) KitWorks.fi Ltd.
Snowpolis
Vuokatti Kainuu 88610
FI

00-1A-72 (hex) Mosart Semiconductor Corp.
001A72 (base 16) Mosart Semiconductor Corp.
23F., No.33, Sec.1,
Taipei 220
TW

00-1A-68 (hex) Weltec Enterprise Co., Ltd.
001A68 (base 16) Weltec Enterprise Co., Ltd.
2F,
No. 351 Yung Ho Rd.
Chung Ho 235
TW

00-1A-48 (hex) Takacom Corporation
001A48 (base 16) Takacom Corporation
304-709 Aza-Nishiyanma
Toki-shi Gifu-ken 509-5202
JP

00-1A-21 (hex) Brookhuis Applied Technologies BV
001A21 (base 16) Brookhuis Applied Technologies BV
PO Box 79
Enschede NL-7500
NL

00-1A-0B (hex) BONA TECHNOLOGY INC.
001A0B (base 16) BONA TECHNOLOGY INC.
4F, E-Place Bldg., 719-24
Seoul 135-080
KR

00-1A-06 (hex) OpVista, Inc.
001A06 (base 16) OpVista, Inc.
870 North McCarthy Blvd.
Milpitas California 95035
US

00-1A-5D (hex) Mobinnova Corp.
001A5D (base 16) Mobinnova Corp.
11F, 845, CHUNG SHAN RD
TAOYUAN 33059
TW

00-19-93 (hex) Changshu Switchgear MFG. Co.,Ltd. (Former Changshu Switchgea
001993 (base 16) Changshu Switchgear MFG. Co.,Ltd. (Former Changshu Switchgea
No. 8 Jianye Road
Changshu Jiangsu 215500
CN

00-19-9B (hex) Diversified
Technical Systems, Inc.
00199B (base 16) Diversified Technical Systems, Inc.
909 Electric Avenue
Seal Beach California 90740
US

00-19-FA (hex) Cable Vision Electronics CO., LTD.
0019FA (base 16) Cable Vision Electronics CO., LTD.
12F-3, No.16, Chien Pa Rd.
Chung Ho City Taipei Hsien 235
TW

00-19-F1 (hex) Star Communication Network Technology Co.,Ltd
0019F1 (base 16) Star Communication Network Technology Co.,Ltd
10/F,Tower B,SOHO New Town,No.88 jianguoRoad,Chaoyang District
Beijing 100022
CN

00-19-EC (hex) Sagamore Systems, Inc.
0019EC (base 16) Sagamore Systems, Inc.
55 Middlesex Street
North Chelmsford MA 01863
US

00-19-A3 (hex) asteel electronique atlantique
0019A3 (base 16) asteel electronique atlantique
za de la lande de saint jean
sainte marie de redon 35600
FR

00-19-AD (hex) BOBST SA
0019AD (base 16) BOBST SA
rte des flumeaux 50
PRILLY VD 1008
CH

00-19-A2
(hex) ORDYN TECHNOLOGIES
0019A2 (base 16) ORDYN TECHNOLOGIES
Ozone Manay Tech Park,
Bangalore 560 068

IN

00-19-A5 (hex) RadarFind Corporation
0019A5 (base 16) RadarFind Corporation
2100 Gateway Centre Blvd., Suite 150
Morrisville NC 27560
US

00-19-C4 (hex) Infocrypt Inc.
0019C4 (base 16) Infocrypt Inc.
711, BYUCKSAN DIGITAL VALLEY 1 212-16,
Seoul 152-050
KR

00-19-BC (hex) ELECTRO CHANCE SRL
0019BC (base 16) ELECTRO CHANCE SRL
CARHUE 3179
CAPITAL FEDERAL BUENOS AIRES 1440
AR

00-19-D5 (hex) IP Innovations, Inc.
0019D5 (base 16) IP Innovations, Inc.
1517 146th Ave
Dorr MI 49323
US

00-19-CC (hex) RCG (HK) Ltd
0019CC (base 16) RCG (HK) Ltd
9/F., Core C, Cyberport 3

HK

00-19-C8 (hex) AnyDATA Corporation
0019C8 (base 16) AnyDATA Corporation
18902 Bardeen Ave.
Irvine CA 91612
US

00-19-81 (hex) Vivox Inc
001981
(base 16) Vivox Inc
40 Speen Street
Framingham MA 01701
US

00-19-EA (hex) TeraMage Technologies Co., Ltd.
0019EA (base 16) TeraMage Technologies Co., Ltd.
Golden Land Building Suite 907

Beijing 100016
CN

00-19-D8 (hex) MAXFOR
0019D8 (base 16) MAXFOR
#E 809, Bundang, Techno-Park
Seongnam-City Gyeonggi-Do 463-760
KR

00-1A-00 (hex) MATRIX INC.
001A00 (base 16) MATRIX INC.
AS bld.3-13-20
Osaka 530-0047
JP

00-19-FF (hex) Finnzymes
0019FF (base 16) Finnzymes
800 West Cummings Park
Woburn MA 01801
US

00-19-90 (hex) ELM DATA Co., Ltd.
001990 (base 16) ELM DATA Co., Ltd.
2-15 TECHNO-PARK 1-CHOME
SAPPORO HOKKAIDO 004-0015
JP

00-19-8F (hex) Nokia Bell N.V.
00198F (base 16) Nokia Bell N.V.
Copernicuslaan 50
Antwerp B-2018
BE

00-19-29 (hex) 2M2B Montadora de Maquinas Bahia Brasil LTDA
001929 (base 16) 2M2B Montadora de Maquinas
Bahia Brasil LTDA
Rua Djalma dutra, 668, Sete Portas
Salvador Bahia 40240080
BR

00-19-2A (hex) Antiope Associates
00192A (base 16) Antiope Associates
18 Clay Street
Fair Haven New Jersey 07704
US

00-19-0F (hex) Advansus Corp.
00190F (base 16) Advansus Corp.

No.5 Shing Yeh Street, Kwei Hsiang
Taoyuan 333
TW

00-19-11 (hex) Just In Mobile Information Technologies (Shanghai) Co., Ltd.
001911 (base 16) Just In Mobile Information Technologies (Shanghai) Co., Ltd.
5th Floor, 2nd Area, Haiwangxing Building, 62 Xingguang Ave., N.High-Tech Park
Chongqing 401121
CN

00-19-17 (hex) Posiflex Inc.
001917 (base 16) Posiflex Inc.
6, Wu-Chuan Road
Taipei Hsien 248
TW

00-19-6E (hex) Metacom (Pty) Ltd.
00196E (base 16) Metacom (Pty) Ltd.
6 Ndabeni Business Park
Cape Town Western Cape 7405
ZA

00-19-65 (hex) YuHua TelTech (ShangHai) Co., Ltd.
001965 (base 16) YuHua TelTech
(ShangHai) Co., Ltd.
YuHua R&D Building,27 xin jin qiao road,
SHANGHAI 201206
CN

00-19-66 (hex) Asiarock Technology Limited
001966 (base 16) Asiarock Technology Limited
P.O. Box957, Offshore Incorporations Centre
Road Town Tortola
VG

00-19-2E (hex) Spectral Instruments, Inc.
00192E (base 16) Spectral Instruments, Inc.
420 N Bonita Ave
Tucson AZ 85745
US

00-19-2B (hex) Aclara RF Systems Inc.
00192B (base 16) Aclara RF Systems Inc.
30400 Solon Road
Solon OH 44139
US

00-19-1E (hex) Beyondwiz Co., Ltd.

00191E (base 16) Beyondwiz Co., Ltd.
3F, Daechang Bldg.,
Sungnam Kyungki-do 463-825
KR

00-19-1F (hex) Microlink communications Inc.
00191F (base 16) Microlink communications Inc.
8F , 31 , Hsintai Road , Chupei City , Hsinchu
Chupei Taiwan 302
TW

00-19-20 (hex) KUME electric Co.,Ltd.
001920 (base 16) KUME electric Co.,Ltd.
4-2-24 Kitakawara
Itami-city
Hyougo
JP

00-19-26 (hex) BitsGen Co., Ltd.
001926 (base 16) BitsGen Co., Ltd.
#502, Owner's Tower, #16-5, Sunea-dong
Bundang-gu Seongnam-si 463-825
KR

00-19-18 (hex) Interactive Wear AG
001918 (base 16) Interactive Wear AG
Petersbrunner Strasse 3
Starnberg Bayern 82319
DE

00-19-0B (hex) Southern Vision Systems, Inc.
00190B (base 16) Southern Vision Systems, Inc.
8215 Madison Blvd, Suite 150
Madison AL 35758
US

00-19-03 (hex) Bigfoot Networks Inc
001903 (base 16) Bigfoot Networks Inc
3925 West Braker Lane
Austin TX 78759
US

00-19-73 (hex) Zeugma Systems
001973 (base 16) Zeugma Systems
Suite 250
Richmond BC V6V 2R2
CA

00-19-75 (hex) Beijing Huisen networks technology Inc
001975 (base 16) Beijing Huisen networks technology Inc
Jia#2 of Xili of Baiyun road,Xicheng district
Beijing 100045
CN

00-19-7B (hex) Picotest Corp.
00197B
(base 16) Picotest Corp.
8F-1, 286-9, Hsin-Ya Rd., 80673
Kaohsiung 80673
TW

00-19-43 (hex) Belden
001943 (base 16) Belden
793 Fort Mill Highway
Fort Mill South Carolina 29715
US

00-19-40 (hex) Rackable Systems
001940 (base 16) Rackable Systems
1933 Milmont Drive
Milpitas CA 95035
US

00-19-3C (hex) HighPoint Technologies Incorporated
00193C (base 16) HighPoint Technologies Incorporated
1161 Cadillac Court
Milpitas CA 95035
US

00-19-00 (hex) Intelliverese - DBA Voicecom
001900 (base 16) Intelliverese - DBA Voicecom
5900 Windward Parkway
Alpharetta Georgia 30005
US

00-19-02 (hex) Cambridge Consultants Ltd
001902 (base 16) Cambridge Consultants Ltd
Science Park
Cambridge Cambs CB4 0DW
GB

00-19-45 (hex) RF COncepts, LLC
001945 (base 16) RF COncepts, LLC
1148 Wagner Drive
Sevierville TN 37862
US

00-19-48 (hex) AireSpider Networks
001948
(base 16) AireSpider Networks
1171 Montague Express Way
Milpitas CA 95035
US

00-19-5C (hex) Innotech Corporation
00195C (base 16) Innotech Corporation
3-17-6
Yokohama Kanagawa 222-8580
JP

00-19-5F (hex) Valemount Networks Corporation
00195F (base 16) Valemount Networks Corporation
1201- 5th Ave
Valemount BC V0E2Z0
CA

00-18-F1 (hex) Chunichi Denshi Co.,LTD.
0018F1 (base 16) Chunichi Denshi Co.,LTD.
1 Denjiyama
Nagoya Aichi 458-8525
JP

00-18-F2 (hex) Beijing Tianyu Communication Equipment Co., Ltd
0018F2 (base 16) Beijing Tianyu Communication Equipment Co., Ltd
27th Floor, Tengda Plaza
Beijing 100044
CN

00-18-EC (hex) Welding Technology Corporation
0018EC (base 16) Welding Technology Corporation
24775 Crestview Court
Farmington Hills MI 48335
US

00-18-ED (hex) Accutech Ultrasystems Co., Ltd.
0018ED (base 16) Accutech Ultrasystems Co., Ltd.
11F-4,
No. 150,
CHUNG-HO CITY, TAIPEI HSIEN, 235
TW

00-18-94 (hex) NPCore, Inc.
001894 (base 16) NPCore, Inc.
1001, ISBIZ Tower

Youngdungpo Gu Seoul 150-105
KR

00-18-98 (hex) KINGSTATE ELECTRONICS CORPORATION
001898 (base 16) KINGSTATE ELECTRONICS CORPORATION
10F, No.69-11, Sec.2, Chung Cheng E. Rd.,
Taipei County 251
TW

00-18-92 (hex) ads-tec GmbH
001892 (base 16) ads-tec GmbH
Raiffeisenstrasse 14
Leinfelden-Echterdingen BW 70771
DE

00-18-91 (hex) Zhongshan General K-mate Electronics Co., Ltd
001891 (base 16) Zhongshan General K-mate Electronics Co., Ltd
3/F B1 Building, Fuwan Ind. Zone Sun Wen East Road
Zhongshan Guangdong 528403
CN

00-18-89 (hex) WinNet Solutions Limited
001889 (base 16) WinNet Solutions Limited
Rm804, Kornhill Metro Tower, Quarry Bay
HK 852
HK

00-18-B2 (hex) ADEUNIS RF
0018B2 (base 16) ADEUNIS RF
283 Rue NEEL
CROLLES ISERE
38920
FR

00-18-B3 (hex) TEC WizHome Co., Ltd.
0018B3 (base 16) TEC WizHome Co., Ltd.
18fl., In-Song bldg., 194-15,
Seoul 100-952
KR

00-18-AC (hex) Shanghai Jiao Da HISYS Technology Co. Ltd.
0018AC (base 16) Shanghai Jiao Da HISYS Technology Co. Ltd.
7F Haoran HiTech Bldg., No.1954 Huashan Road
shanghai xuhui 200030
US

00-18-AB (hex) BEIJING LHWT MICROELECTRONICS INC.
0018AB (base 16) BEIJING LHWT MICROELECTRONICS INC.

18/F,QUANTUM PLAZA,NO.27 ZHI CHUN RD.,HAI DIAN DISTRICT,BEIJING

CN

00-18-A5 (hex) ADigit Technologies Corp.
0018A5 (base 16) ADigit Technologies Corp.
Rm D302E,No.185 3F-2,Kur-Wong Road,
Tao-yuan, 325
TW

00-18-E0 (hex) ANAVEO
0018E0 (base 16) ANAVEO
Les Carrés du parc
CHAMPAGNE au MONT D'OR Rhône F-69410
FR

00-18-CE (hex) Dreamtech Co., Ltd
0018CE (base 16) Dreamtech Co., Ltd
#340-5, Yang-dang Ri, Jik-san Myeon
Cheon-an si Chung-Nam
330810
KR

00-18-A6 (hex) Persistent Systems, LLC
0018A6 (base 16) Persistent Systems, LLC
118 N. Howard St. #72
Baltimore MD 21201
US

00-18-9B (hex) Thomson Inc.
00189B (base 16) Thomson Inc.
101 West 103rd Street
Indianapolis IN 46290-1102
US

00-18-6B (hex) Sambu Communics CO., LTD.
00186B (base 16) Sambu Communics CO., LTD.
38B-1L Namdong Industrial Complex
Incheon 405-100
KR

00-18-77 (hex) Amplex A/S
001877 (base 16) Amplex A/S
Silkeborgvej 2
Aarhus C 8000
DK

00-18-67 (hex) Datalogic ADC

001867 (base 16) Datalogic ADC
433 N. Fair Oaks Ave
Pasadena CA 91103
US

00-18-BD (hex) SHENZHEN DVBWORLD TECHNOLOGY CO., LTD.
0018BD (base 16) SHENZHEN DVBWORLD TECHNOLOGY CO., LTD.
2ND FLOOR, BUILDING A, QINGHU XINQIAO INDUSTRY AREA,
SHENZHEN GUANGDONG 518000
CN

00-18-6A (hex) Global Link Digital Technology Co,.LTD
00186A (base 16) Global Link
Digital Technology Co,.LTD
Qibaoyiding Ind.Area
Dongguan Guangdong 523051
CN

00-18-78 (hex) Mackware GmbH
001878 (base 16) Mackware GmbH
Schänzle 13
Waiblingen Baden-Württemberg 71332
DE

00-18-6E (hex) 3Com Ltd
00186E (base 16) 3Com Ltd
Peoplebuilding 2
Hemel Hempstead Herts HP2 4NW
GB

00-18-CB (hex) Tecobest Technology Limited
0018CB (base 16) Tecobest Technology Limited
53/F.,Block A,United Plaza,
Shenzhen Guangdong 518026
CN

00-18-43 (hex) Dawevision Ltd
001843 (base 16) Dawevision Ltd
197 High Street
Cottenham Cambridge CB4 8RX
GB

00-18-2C (hex) Ascend Networks, Inc.
00182C (base 16) Ascend Networks, Inc.
No. 4 - 4, Lane 413, ChungChan Road,
BenQuao City Taipei 220
TW

00-18-36 (hex) REJ Co.,Ltd
001836 (base 16) REJ Co.,Ltd
2-3-2 Fukuura, Kanazawa-ku
Yokohama Kanagawa 236-8641
JP

00-17-ED (hex) WooJooIT Ltd.
0017ED (base 16) WooJooIT
Ltd.
Hankooktire B/D 4th floor, 501-19,
Yangcheon-gu, Seoul 158-839
KR

00-17-DD (hex) Clipsal Australia
0017DD (base 16) Clipsal Australia
33-37 Port Wakefield Rd
Gepps Cross South Australia 5094
AU

00-17-D9 (hex) AAI Corporation
0017D9 (base 16) AAI Corporation
P.O. Box 126
Hunt Valley Maryland 21030
US

00-17-DC (hex) DAEMYUNG ZERO1
0017DC (base 16) DAEMYUNG ZERO1
#809,Hyosung Intellian
Anyang-si Gyeonggi-do 431-060
KR

00-17-F9 (hex) Forcom Sp. z o.o.
0017F9 (base 16) Forcom Sp. z o.o.
Gajowa 6
Poznan WLKP 60-815
PL

00-17-F4 (hex) ZERON ALLIANCE
0017F4 (base 16) ZERON ALLIANCE
3F DOORI BUILD. 244-14 bunji, Poi-dong, Gangnam-gu
SEOUL 135-965
KR

00-17-F7 (hex) CEM Solutions Pvt Ltd
0017F7 (base 16) CEM Solutions Pvt Ltd
49,Kanija Bhavan
Bangalore Karnataka 560 001
IN

00-18-1D (hex) ASIA ELECTRONICS CO.,LTD
00181D (base
16) ASIA ELECTRONICS CO.,LTD
620-3 DOCHEON-DONG
GWANGJU 506-301
KR

00-18-1F (hex) Palmmicro Communications
00181F (base 16) Palmmicro Communications
Room 0611, Bldg.B Tsinghua Tongfang Technology Plaza
Beijing 100083
CN

00-18-1B (hex) TaiJin Metal Co., Ltd.
00181B (base 16) TaiJin Metal Co., Ltd.
#95-9, Hangdong7-Ga, Joong-Gu
In Cheon 400-037
KR

00-18-65 (hex) Siemens Healthcare Diagnostics Manufacturing Ltd
001865 (base 16) Siemens Healthcare Diagnostics Manufacturing Ltd
Northern Road
Sudbury Suffolk C010 2XQ
GB

00-18-05 (hex) Beijing InHand Networking Technology Co.,Ltd.
001805 (base 16) Beijing InHand Networking Technology Co.,Ltd.
West Wing 11th Floor of Qiming International Mansion
Beijing 100085
CN

00-18-54 (hex) Argard Co., Ltd
001854 (base 16) Argard Co., Ltd
2571 Lardprao Rd.
wangthonglang Bangkok 10310
TH

00-18-47 (hex) AceNet Technology
Inc.
001847 (base 16) AceNet Technology Inc.
133 Vienna Dr.
Milpitas CA 95035
US

00-18-0D (hex) Terabytes Server Storage Tech Corp
00180D (base 16) Terabytes Server Storage Tech Corp
14257 E Don Julian Rd

City of Industry CA 91746
US

00-17-C4 (hex) Quanta Microsystems, INC.
0017C4 (base 16) Quanta Microsystems, INC.
188 Wenhwa 2nd RD., Kueishan Hsiang
Taoyuan Shien 333
TW

00-17-BD (hex) Tibetsystem
0017BD (base 16) Tibetsystem
6F IT Castle II 550-1 Gasan-dong
Seoul Geumcheon-gu 153-803
KR

00-17-BF (hex) Coherent Research Limited
0017BF (base 16) Coherent Research Limited
8 Princess Mews
Kingston upon Thames Surrey KT1 2SZ
GB

00-17-9E (hex) Sirit Inc
00179E (base 16) Sirit Inc
2525 Meridian Parkway
Durham NC 27713
US

00-17-A7 (hex) Mobile Computing Promotion Consortium
0017A7 (base 16) Mobile Computing Promotion Consortium
3-5-12 Shiba-Koen
Tokyo
105-0011
JP

00-17-9F (hex) Apricorn
00179F (base 16) Apricorn
12191 Kirkham RD
Poway California 92064
US

00-17-A1 (hex) 3soft inc.
0017A1 (base 16) 3soft inc.
shinyoung bldg 4f, chungdam-dong, gangnam-gu
seoul 135-100
KR

00-17-58 (hex) ThruVision Ltd
001758 (base 16) ThruVision Ltd

Central 127, No.18
Abingdon Oxfordshire OX14 4SA
GB

00-17-4F (hex) iCatch Inc.
00174F (base 16) iCatch Inc.
10F-2, No. 109, Sec. 6, Mincyuan E. Rd.,
Taipei 114
TW

00-17-B4 (hex) Remote Security Systems, LLC
0017B4 (base 16) Remote Security Systems, LLC
4806 Upper Brandon Place
Marietta Georgia 30068
US

00-17-AC (hex) O'Neil Product Development Inc.
0017AC (base 16) O'Neil Product Development Inc.
8 Mason
Irvine CA 92618
US

00-17-AD (hex) AceNet Corporation
0017AD (base 16) AceNet Corporation
7F-4, No.146, Wen-Shin Road
Gueishan TAOYUAN

TW

00-17-88 (hex) Philips Lighting BV
001788 (base 16) Philips Lighting BV
High Tech Campus 45
Eindhoven Noord Brabant 5656 AE
NL

00-17-6F (hex) PAX Computer Technology(Shenzhen) Ltd.
00176F (base 16) PAX Computer Technology(Shenzhen) Ltd.
4/F, No.3 Building, Software Park, Second Central Science-Tech Road, High-Tech
Shenzhen GuangDong 518057
CN

00-17-66 (hex) Accense Technology, Inc.
001766 (base 16) Accense Technology, Inc.
35 Tansumachi
Shinjyuku-ku Tokyo 1620833
JP

00-17-64 (hex) ATMedia GmbH

001764 (base 16) ATMedia GmbH
Stuhlsatzenhausweg 69
Saarbruecken Saarland 66123
DE

00-17-5E (hex) Zed-3
00175E (base 16) Zed-3
501 Valley Way
Milpitas CA 95035
US

00-17-5B (hex) ACS Solutions Switzerland Ltd.
00175B (base 16) ACS Solutions Switzerland Ltd.
Frankenstrasse 70
Bern- Buempliz 3018
CH

00-17-92 (hex) Falcom Wireless Comunications Gmbh
001792
(base 16) Falcom Wireless Comunications Gmbh
Gewerbering 6
Langewiesen Thuringia 98704
DE

00-17-97 (hex) Telsy Elettronica S.p.A.
001797 (base 16) Telsy Elettronica S.p.A.
Corso Svizzera 185
Torino 10149
IT

00-17-8C (hex) Independent Witness, Inc
00178C (base 16) Independent Witness, Inc
1515 West 2200 South
Salt Lake City UT 84119
US

00-17-D3 (hex) Etymotic Research, Inc.
0017D3 (base 16) Etymotic Research, Inc.
61 Martin Lane
Elk Grove Village IL 60061
US

00-17-CC (hex) Alcatel-Lucent
0017CC (base 16) Alcatel-Lucent
601 Data Dr.
Plano TX 75075
US

00-17-71 (hex) APD Communications Ltd
001771 (base 16) APD Communications Ltd
Newlands Centre
HULL HU6 7TQ
GB

00-17-29 (hex) Ubicod Co.LTD
001729 (base 16) Ubicod Co.LTD
7F Chun-gin Bldg, 53-5 Wonhyo-ro
Seoul 140-719
KR

00-17-27 (hex) Thermo Ramsey Italia s.r.l.
001727
(base 16) Thermo Ramsey Italia s.r.l.
Strada Rivoltana km 6/7
Rodano Milano 20090
IT

00-17-2A (hex) Proware Technology Corp.(By Unifosa)
00172A (base 16) Proware Technology Corp.(By Unifosa)
6Fl., No. 4, Alley 1, Lane 235, PaoChao Rd., Sindian Dist.,
New Taipei City 231
TW

00-17-25 (hex) Liquid Computing
001725 (base 16) Liquid Computing
340 Terry Fox Drive
Ottawa Ontario K2K 3A2
CA

00-17-3C (hex) Extreme Engineering Solutions
00173C (base 16) Extreme Engineering Solutions
7878 Big Sky Drive
Madison WI 53719
US

00-17-36 (hex) iiTron Inc.
001736 (base 16) iiTron Inc.
88 Mercy St.
Mountain View CA 94041
US

00-17-37 (hex) Industrie Dial Face S.p.A.
001737 (base 16) Industrie Dial Face S.p.A.
via Canzo, 4
Peschiera Borromeo Milano 20068
IT

00-17-33 (hex) SFR
001733 (base 16) SFR
42 Quai du point du jour
Boulogne Billancourt Hauts de Seine 92659
FR

00-17-4A
(hex) SOCOMEC
00174A (base 16) SOCOMEC
rue de Westhouse
BENFELD CEDEX 67235
FR

00-17-4E (hex) Parama-tech Co.,Ltd.
00174E (base 16) Parama-tech Co.,Ltd.
2-19-8, Sharyo, Higashi-ku
Fukuoka 812-0068
JP

00-16-F8 (hex) AVIQTECH TECHNOLOGY CO., LTD.
0016F8 (base 16) AVIQTECH TECHNOLOGY CO., LTD.
6F 12, Li-hsin Road, SBIP
Hsin-chu 300
TW

00-16-E8 (hex) Lumissil Microsystems
0016E8 (base 16) Lumissil Microsystems
1623 Buckeye Dr.
Milpitas CA 95035
US

00-16-E9 (hex) Tiba Medical Inc
0016E9 (base 16) Tiba Medical Inc
5024 Lakewood Drive
Plano TX 75093
US

00-17-14 (hex) BR Controls Nederland bv
001714 (base 16) BR Controls Nederland bv
Branderweg 1
Zwolle Overijssel 8042 PD
NL

00-17-1B (hex) Innovation Lab Corp.
00171B (base 16) Innovation Lab Corp.
12FL., No. 285, Sec. 2, TiDing Blvd.,
Taipei 11493

TW

00-17-09
(hex) Exalt Communications
001709 (base 16) Exalt Communications
580 Division Street
Campbell CA 95008
US

00-17-03 (hex) MOSDAN Internation Co.,Ltd
001703 (base 16) MOSDAN Internation Co.,Ltd
No.216 Xiwei,Shanhua Dist,
Tainan 741
TW

00-16-FC (hex) TOHKEN CO.,LTD.
0016FC (base 16) TOHKEN CO.,LTD.
2-16-20 Tamagawa
Chofu Tokyo 182-0025
JP

00-16-F0 (hex) Dell
0016F0 (base 16) Dell
909 Hermosa Ct
Sunnyvale CA 94085
US

00-16-A9 (hex) 2EI
0016A9 (base 16) 2EI
Rua dos Rubis, 77 - Assumpcao
Aguas de Lindoia São Paulo 13940-000
BR

00-16-B0 (hex) VK Corporation
0016B0 (base 16) VK Corporation
VK B/D, 548-6, Anyang 8dong, Manan-gu
Anyang Kyounggi 430-8903
KR

00-16-B1 (hex) KBS
0016B1 (base 16) KBS
88 rue Pierre Sémard
Moissy cedex Ile de France 77552
FR

00-16-AE (hex) INVENTEL
0016AE (base 16) INVENTEL
35 rue Tournefort

PARIS
75005
FR

00-16-8C (hex) DSL Partner AS
00168C (base 16) DSL Partner AS
Havreveien 49
Oslo 0680
NO

00-16-83 (hex) WEBIO International Co.,.Ltd.
001683 (base 16) WEBIO International Co.,.Ltd.
21F.,No.171 Songde Rd.,Sinyi District
Taipei 11085
TW

00-16-84 (hex) Donjin Co.,Ltd.
001684 (base 16) Donjin Co.,Ltd.
21F,Cangsong Building,Tairan,Futian
Shenzhen Guangdong 518040
CN

00-16-87 (hex) Chubb CSC-Vendor AP
001687 (base 16) Chubb CSC-Vendor AP
Ottawa STN
Ottawa K1G 6W6
CA

00-16-D0 (hex) ATech elektronika d.o.o.
0016D0 (base 16) ATech elektronika d.o.o.
Bac pri Materiji 30
Materija SI 6242
SI

00-16-C3 (hex) BA Systems Inc
0016C3 (base 16) BA Systems Inc
6895 Via Del Oro
San Jose CA 95119
US

00-16-7F (hex) Bluebird Soft Inc.
00167F (base 16) Bluebird Soft Inc.
562-21 Gangnam-gu,
Seoul 135-890
KR

00-16-7C (hex) iRex

Technologies BV
00167C (base 16) iRex Technologies BV
HighTech Campus
Eindhoven Brabant 5656AE
NL

00-16-73 (hex) Bury GmbH & Co. KG
001673 (base 16) Bury GmbH & Co. KG
Robert-Koch-Str. 1-7
Loehne Germany 32584
DE

00-16-C1 (hex) Eleksen Ltd
0016C1 (base 16) Eleksen Ltd
Pinewood Studios
Iver Bucks SL0 0NH
US

00-16-AC (hex) Toho Technology Corp.
0016AC (base 16) Toho Technology Corp.
HIGASHI 5-1
INAZAWA-CITY AICHI 492-8501
JP

00-16-9C (hex) Cisco Systems, Inc
00169C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-16-DC (hex) ARCHOS
0016DC (base 16) ARCHOS
12 rue AMPERE
IGNY ESSONNES 91430
FR

00-16-94 (hex) Sennheiser Communications A/S
001694 (base 16) Sennheiser Communications A/S
Langager 6
Solrød Strand Copenhagen 2680
DK

00-16-18 (hex) HIVION Co., Ltd.
001618 (base 16) HIVION Co., Ltd.
2F.,
Akyung Bldg., 54-10, Munjeong-dong,
Songpa-Gu Seoul
KR

00-16-1E (hex) Woojinnet
00161E (base 16) Woojinnet
292 osan dongtan
hwaseong kyonggi 445-813
KR

00-16-1F (hex) SUNWAVETEC Co., Ltd.
00161F (base 16) SUNWAVETEC Co., Ltd.
#823, Kwanyang-dong, Dongan-ku
Anyang-si Kyungki-do 431-060
US

00-16-14 (hex) Picosecond Pulse Labs
001614 (base 16) Picosecond Pulse Labs
2500 55th Street
Boulder CO 80301
US

00-16-0E (hex) Optica Technologies Inc.
00160E (base 16) Optica Technologies Inc.
2051 Dogwood Street
Louisville CO 80027
US

00-16-43 (hex) Sunhillo Corporation
001643 (base 16) Sunhillo Corporation
444 Kelley Drive
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US

00-16-44 (hex) LITE-ON Technology Corp.
001644 (base 16) LITE-ON Technology Corp.
18F, No.392, Ruey Kuang Road, Niehu,
Taipei 114
TW

00-16-3E (hex) Xensource, Inc.
00163E (base 16) Xensource,
Inc.
2300 Geng Rd.
Palo Alto CA 94303
US

00-16-34 (hex) Mathtech, Inc.
001634 (base 16) Mathtech, Inc.
6402 Arlington Blvd.,
Falls Church Virginia 22042-2356

US

00-16-2C (hex) Xanboo
00162C (base 16) Xanboo
115 West 30th, 6th Fl
New York NY 10001
US

00-16-4C (hex) PLANET INT Co., Ltd
00164C (base 16) PLANET INT Co., Ltd
8th Floor, Saeum B/D, 1361-5
Seoul 137-070
KR

00-16-49 (hex) SetOne GmbH
001649 (base 16) SetOne GmbH
Hegenheimer Str. 2
Weil am Rhein D-79576
DE

00-16-47 (hex) Cisco Systems, Inc
001647 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
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00-15-FD (hex) Complete Media Systems
0015FD (base 16) Complete Media Systems
Grove Place
Warninglid West sussex RH17 5SN
GB

00-15-F6 (hex) SCIENCE AND ENGINEERING SERVICES, INC.
0015F6 (base 16) SCIENCE AND ENGINEERING SERVICES, INC.
4015 PULASKI PIKE
NW
HUNTSVILLE AL 35810
US

00-16-1B (hex) Micronet Corporation
00161B (base 16) Micronet Corporation
1788-388 Nomura Hirooka
Shiojiri-shi Nagano-ken 399-0702
JP

00-16-05 (hex) YORKVILLE SOUND INC.
001605 (base 16) YORKVILLE SOUND INC.
4625 WITMER INDUSTRIAL ESTATE

NIAGARA FALLS NY 14305
US

00-15-F9 (hex) Cisco Systems, Inc
0015F9 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-16-5F (hex) Fairmount Automation
00165F (base 16) Fairmount Automation
4621 West Chester Pike
Newtown Square PA 19073
US

00-16-57 (hex) Aegate Ltd
001657 (base 16) Aegate Ltd
Technology Centre
Melbourn Hertfordshire SG8 6DP
GB

00-16-65 (hex) Cellon France
001665 (base 16) Cellon France
Route d'Angers Le Mans cedex 9
Le Mans Sarthe 72081
FR

00-15-D3 (hex) Pantech&Curitel Communications, Inc.
0015D3 (base 16) Pantech&Curitel Communications, Inc.
1451-34, Seocho-dong, Seocho-Gu
Seoul 137-070
KR

00-15-CA (hex) TeraRecon, Inc.
0015CA (base 16) TeraRecon, Inc.
2955 Campus Drive, Suite 325
San Mateo CA 94403
US

00-15-70 (hex) Zebra Technologies Inc
001570 (base 16) Zebra Technologies Inc
475 Half Day Road
Lincolnshire IL 60069
US

00-15-6E (hex) A. W. Communication Systems Ltd
00156E (base 16) A. W. Communication Systems Ltd

Crook Barn
Carlisle Cumbria CA6 6LH
GB

00-15-68 (hex) Dilithium Networks
001568 (base 16) Dilithium Networks
5401 Old Redwood Hwy
Petaluma CA 94954
US

00-15-5F (hex) GreenPeak Technologies
00155F (base 16) GreenPeak Technologies
Spinnerijstraat 14
Zele 9240
BE

00-15-AD (hex) Accedian Networks
0015AD (base 16) Accedian Networks
4878 Levy, suite 202
St-Laurent Quebec H9P 2V4
CA

00-15-AC (hex) Capelon AB
0015AC (base 16) Capelon AB
Jägerhorns
väg 1
Kungens Kurva Stockholm S-141 75
SE

00-15-A9 (hex) KWANG WOO I&C CO.,LTD
0015A9 (base 16) KWANG WOO I&C CO.,LTD
898-23, Hogye-dong,Dongan-gu
431-080
KR

00-E0-A8 (hex) SAT GmbH & Co.
00E0A8 (base 16) SAT GmbH & Co.
RUTHNERGASSE 1
VIENNA A-1210
AT

00-15-74 (hex) Horizon Semiconductors Ltd.
001574 (base 16) Horizon Semiconductors Ltd.
9 Hamenofim St.
Herzliya 46120
IL

00-15-F3 (hex) PELTOR AB

0015F3 (base 16) PELTOR AB
Box 2341
SE-331 02 Värnamo SE-331 02
SE

00-15-E7 (hex) Quantec Tontechnik
0015E7 (base 16) Quantec Tontechnik
Maenherstr. 35
München D-81375
DE

00-15-E3 (hex) Dream Technologies Corporation
0015E3 (base 16) Dream Technologies Corporation
Ebisu Prime Square, 1-1-39 Hiroo
Tokyo 150-0012
JP

00-15-E0 (hex) Ericsson
0015E0 (base 16) Ericsson
Nya Vattentornet
Lund SE-221 83
NO

00-15-98 (hex) Kolektor
group
001598 (base 16) Kolektor group
Vojkova 10
Idrija 5280
SI

00-15-8A (hex) SURECOM Technology Corp.
00158A (base 16) SURECOM Technology Corp.
6F, No. 125, Sec. 2, Datung Rd.
Shijr City, Taipei County 221
TW

00-15-8E (hex) Plustek.INC
00158E (base 16) Plustek.INC
13F-1,No3(Building F) Yuan Qu Street
Taipei Yuan Qu 115
TW

00-15-89 (hex) D-MAX Technology Co.,Ltd
001589 (base 16) D-MAX Technology Co.,Ltd
7F-6,NO.26,Lian Cheng RD.,Chung-Ho City
Taipei Hsien 235
US

00-15-B4 (hex) Polymap Wireless LLC
0015B4 (base 16) Polymap Wireless LLC
310 S. Williams Blvd. Ste. 350
Tucson AZ 85711
US

00-14-F4 (hex) DekTec Digital Video B.V.
0014F4 (base 16) DekTec Digital Video B.V.
Van Riebeeckweg 43A
Hilversum NH 1212AE
NL

00-14-F5 (hex) OSI Security Devices
0014F5 (base 16) OSI Security Devices
1580 Jayken Way
Chula Vista California
91911
US

00-14-EC (hex) Acro Telecom
0014EC (base 16) Acro Telecom
714 Woolim e-Biz Center 170-5 Guro-dong
Guro-Gu Seoul 152-769
KR

00-14-EB (hex) AwarePoint Corporation
0014EB (base 16) AwarePoint Corporation
8899 University Center Lane
San Diego CA 92122
US

00-15-4B (hex) Wonde Proud Technology Co., Ltd
00154B (base 16) Wonde Proud Technology Co., Ltd
21F., No.100, Sec.1, Shintai 5th Rd
Sijhih city Taipei County 221
TW

00-15-48 (hex) CUBE TECHNOLOGIES
001548 (base 16) CUBE TECHNOLOGIES
46 A CHEMIN DU MOULIN CARRON
69570 DARDILLY FRANCE
FR

00-15-3C (hex) Kprotech Co., Ltd.
00153C (base 16) Kprotech Co., Ltd.
2nd Floor, # 202, Myoung-ji e-Space II
An-yang City Gyeong-gi Do 430-817
KR

00-15-5A (hex) DAINIPPON PHARMACEUTICAL CO., LTD.
00155A (base 16) DAINIPPON PHARMACEUTICAL CO., LTD.
2-6-8, DOSHOMACHI, CHUO-KU
OSAKA CITY OSAKA PREF. 541-8524
JP

00-14-FF
(hex) Precise Automation, Inc.
0014FF (base 16) Precise Automation, Inc.
1402 Alexandra Blvd
Crystal Lake IL 60014
US

00-14-FA (hex) AsGa S.A.
0014FA (base 16) AsGa S.A.
Rod Roberto Moreira Km 04
Paulinia São Paulo 13140-000
BR

00-14-FB (hex) Technical Solutions Inc.
0014FB (base 16) Technical Solutions Inc.
101-7188 Progress Way
Delta BC V4G 1M6
CA

00-15-3A (hex) Shenzhen Syscan Technology Co.,Ltd.
00153A (base 16) Shenzhen Syscan Technology Co.,Ltd.
13F, Olympic Plaza,
Shenzhen Guangdong 518034
CN

00-15-32 (hex) Consumer Technologies Group, LLC
001532 (base 16) Consumer Technologies Group, LLC
801 Brookhollow
Efland NC 27243
US

00-15-0A (hex) Sonoa Systems, Inc
00150A (base 16) Sonoa Systems, Inc
3900 Freedom Circle
Santa Clara CA 95054
US

00-15-1D (hex) M2I CORPORATION
00151D (base 16) M2I CORPORATION
Kyonggi Venture Anyang

technical center, 13th Floor, 572-5, Anyang 8-Dong, Manan-Gu
Anyang-Shi Kyonggi-Do 430-731
KR

00-15-12 (hex) Zurich University of Applied Sciences
001512 (base 16) Zurich University of Applied Sciences
Technikumstrasse 9
Winterthur ZH CH-8401
CH

00-14-A9 (hex) Cisco Systems, Inc
0014A9 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-14-9B (hex) Nokota Communications, LLC
00149B (base 16) Nokota Communications, LLC
200 Galleria Parkway
Atlanta Georgia 30339
US

00-14-A1 (hex) Synchronous Communication Corp
0014A1 (base 16) Synchronous Communication Corp
9 floor, No168, Rueiguang Road, Neihu District
Taipei 114
TW

00-14-9E (hex) UbONE Co., Ltd
00149E (base 16) UbONE Co., Ltd
Shinyoung B.D. 602, SeoHyeon2-Dong
Seongnam-si Gyeongg-do 463-824
KR

00-14-A2 (hex) Core Micro Systems Inc.
0014A2 (base 16) Core Micro Systems Inc.
Wacore
Kaname-cho Bldg. 9F, 11-2, Nakamaru-cho
Itabashi-ku Tokyo 173-0026
JP

00-14-AB (hex) Senhai Electronic Technology Co., Ltd.
0014AB (base 16) Senhai Electronic Technology Co., Ltd.
Rm.10A. 28/F.SEGPlaza Huaqiangbei Road
Shengzhen Guangdong 518031
CN

00-14-B0 (hex) Naeil Community

0014B0 (base 16) Naeil Community
#506 AceTwin Tower 1, Guro-Dong
Seoul Guro-Gu 152779
KR

00-14-AD (hex) Gassner Wiege- und Meßtechnik GmbH
0014AD (base 16) Gassner Wiege- und Meßtechnik GmbH
Münchner Bundesstraße
Salzburg A-5020
AT

00-14-AF (hex) Datasym POS Inc.
0014AF (base 16) Datasym POS Inc.
45 Dalkeith Drive
Brantford Ontario N3P1M1
CA

00-14-D2 (hex) Kyuden Technosystems Corporation
0014D2 (base 16) Kyuden Technosystems Corporation
4-19-18 SHIMIZU,MINAMI-KU
FUKUOKA 815-0031
JP

00-14-DC (hex) Communication System Design & Manufacturing (CSDM)
0014DC (base 16) Communication
System Design & Manufacturing (CSDM)
Postbus 181
Bussum NH 1400 AD
NL

00-14-CD (hex) DigitalZone Co., Ltd.
0014CD (base 16) DigitalZone Co., Ltd.
No. 1001 E&C VentureDreamTower2
Seoul 152-848
KR

00-14-C0 (hex) Symstream Technology Group Ltd
0014C0 (base 16) Symstream Technology Group Ltd
Level 1, 3 Chester Street
Oakleigh Victoria 3166
AU

00-14-C1 (hex) U.S. Robotics Corporation
0014C1 (base 16) U.S. Robotics Corporation
935 National Parkway
Schaumburg IL 60173-5157
US

00-14-C4 (hex) Vitelcom Mobile Technology
0014C4 (base 16) Vitelcom Mobile Technology
PTA, Avda, Juan López Peñalver, nº 7
Campanillas. Malaga.
ES

00-14-8E (hex) Tele Power Inc.
00148E (base 16) Tele Power Inc.
1-46-15#B1F
Nerima-ku Tokyo 176-0005
JP

00-14-8F (hex) Protronic (Far East) Ltd.
00148F (base 16) Protronic (Far East) Ltd.
Rm. 2504, Nanyang Plaza,
Kwun Tong Kowloon

HK

00-14-8C (hex) General Dynamics Mission Systems
00148C (base 16) General Dynamics Mission Systems
150 Rustcraft Road
Dedham MA 02026
US

00-14-81 (hex) Multilink Inc
001481 (base 16) Multilink Inc
580 Ternes Ave
Elyria OH 44035
US

00-14-7C (hex) 3Com Ltd
00147C (base 16) 3Com Ltd
Peoplebuilding 2
Hemel Hempstead Herts HP2 4NW
GB

00-14-64 (hex) Cryptosoft
001464 (base 16) Cryptosoft
Lermontova str, 3
Penza region 440026
RU

00-14-5E (hex) IBM Corp
00145E (base 16) IBM Corp
3039 E Cornwallis Road
Research Triangle Park NC 27709-2195
US

00-14-58 (hex) HS Automatic ApS
001458 (base 16) HS Automatic ApS
Bjerringbrovej 70
Rodovre 2610
DK

00-14-68 (hex) CelPlan International, Inc.
001468 (base 16) CelPlan International, Inc.
1920 Association Drive
Reston VA 20191
US

00-14-87 (hex) American Technology Integrators
001487
(base 16) American Technology Integrators
1358 Rosalia Ave
San Jose CA 95130
US

00-14-44 (hex) Grundfos Holding
001444 (base 16) Grundfos Holding
Poul Due Jensensvej 7
Bjerringbro DK8850
DK

00-14-37 (hex) GSTeletech Co.,Ltd.
001437 (base 16) GSTeletech Co.,Ltd.
1385-14, Juan-Dong, Nam-gu
Incheon 402-200
KR

00-13-F0 (hex) Wavefront Semiconductor
0013F0 (base 16) Wavefront Semiconductor
4746 44th Ave SW
Seattle WA 98116
US

00-13-EF (hex) Kingjon Digital Technology Co.,Ltd
0013EF (base 16) Kingjon Digital Technology Co.,Ltd
Room 827,Huanan Dianli Bulding,No.2050
Shenzhen GuangDong 518031
CN

00-13-EB (hex) Sysmaster Corporation
0013EB (base 16) Sysmaster Corporation
5801 Christie Ave.
Emeryville CA 94608

US

00-13-EC (hex) Netsnapper Technologies SARL
0013EC (base 16) Netsnapper Technologies SARL
2160 Century Park East 1806
Los Angeles
CA 90067-2236
US

00-14-31 (hex) PDL Electronics Ltd
001431 (base 16) PDL Electronics Ltd
81 Austin Street
Napier Hawkes Bay
NZ

00-14-2B (hex) Edata Communication Inc.
00142B (base 16) Edata Communication Inc.
2F-1, No. 872, Chung-Cheng Rd
Taipei Hsien 235
TW

00-14-2C (hex) Koncept International, Inc.
00142C (base 16) Koncept International, Inc.
2500 E Foothill Blvd. #407
Pasadena CA 91107
US

00-14-24 (hex) Merry Electrics CO., LTD.
001424 (base 16) Merry Electrics CO., LTD.
NO.22,23rd ROAD
TAICHUNG CITY 40850
TW

00-14-21 (hex) Total Wireless Technologies Pte. Ltd.
001421 (base 16) Total Wireless Technologies Pte. Ltd.
Blk 1003, Bukit Merah Central, #04-18
159836
SG

00-14-20 (hex) G-Links networking company
001420 (base 16) G-Links networking company
1FL. NO.15-49, MING DER SECOND ROAD,
Keelung 206
TW

00-14-18 (hex) C4Line
001418

(base 16) C4Line
1001 Hyundai Parisian,
Yangchun-Gu Seoul 158-050
KR

00-14-1B (hex) Cisco Systems, Inc
00141B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-14-0F (hex) Federal State Unitary Enterprise Leningrad R&D Institute of
00140F (base 16) Federal State Unitary Enterprise Leningrad R&D Institute of
11 Warshawskaya St.
St. Petersburg 196128
RU

00-14-07 (hex) Sperian Protection Instrumentation
001407 (base 16) Sperian Protection Instrumentation
651 South Main Street
Middletown CT 06457
US

00-14-06 (hex) Go Networks
001406 (base 16) Go Networks
126 Yigal Alon st.
Tel Aviv 67443
IL

00-14-0A (hex) WEPIO Co., Ltd.
00140A (base 16) WEPIO Co., Ltd.
#1125, Opus1, Gurodongcomplex building
Seoul 152-050
KR

00-13-D0 (hex) t+ Medical Ltd
0013D0 (base 16) t+ Medical Ltd
174E Milton Park
Abingdon OX14 4SE
GB

00-13-D2
(hex) PAGE IBERICA, S.A.
0013D2 (base 16) PAGE IBERICA, S.A.
AV. DE LA INDUSTRIA, 24
TRES CANTOS MADRID 28760
ES

00-13-D1 (hex) KIRK telecom A/S
0013D1 (base 16) KIRK telecom A/S
Langmarksvej 34
Horsens 8700
DK

00-14-4D (hex) Intelligent Systems
00144D (base 16) Intelligent Systems
11101 Johns Hopkins Road
Laurel MD 20723
US

00-14-4A (hex) Taiwan Thick-Film Ind. Corp.
00144A (base 16) Taiwan Thick-Film Ind. Corp.
NO.126,Wuu Gong 2nd RD,
Taipei Hsien 248
TW

00-14-45 (hex) Telefon-Gradnja d.o.o.
001445 (base 16) Telefon-Gradnja d.o.o.
Plesivicka 3
Sveta Nedelja Zupanija Zagrebacka 10431
HR

00-13-FA (hex) LifeSize Communications, Inc
0013FA (base 16) LifeSize Communications, Inc
901 S. Mopac
Austin TX 78746
US

00-13-FB (hex) RKC INSTRUMENT INC.
0013FB (base 16) RKC INSTRUMENT INC.
16-6, Kugahara 5-chome,
Ohta-ku Tokyo 146-8515
JP

00-13-6F
(hex) PacketMotion, Inc.
00136F (base 16) PacketMotion, Inc.
2121 El Camino Real
San Mateo CA 94403
US

00-13-66 (hex) Neturity Technologies Inc.
001366 (base 16) Neturity Technologies Inc.
830 Stewart Drive
Sunnyvale CA 94085
US

00-13-7D (hex) Dynalab, Inc.
00137D (base 16) Dynalab, Inc.
555 Lancaster Ave.
Reynoldsburg OH 43068
US

00-13-83 (hex) Application Technologies and Engineering Research Laboratory
001383 (base 16) Application Technologies and Engineering Research Laboratory
Shinjuku 1-chome Bldg.
Shinjuku-ku Tokyo 160-0022
JP

00-13-87 (hex) 27M Technologies AB
001387 (base 16) 27M Technologies AB
Diskettgatan 11
Linköping S-583 35
SE

00-13-73 (hex) BLwave Electronics Co., Ltd
001373 (base 16) BLwave Electronics Co., Ltd
23FGH, Block A,ZhenYe Building , BaoAn Nan Road , LuoHu , Shenzhen , China
ShenZhen GuangDong 518000
CN

00-13-5B
(hex) PanelLink Cinema, LLC
00135B (base 16) PanelLink Cinema, LLC
1070 E Arques Ave
Sunnyvale CA 94085
US

00-13-5E (hex) EAB/RWI/K
00135E (base 16) EAB/RWI/K
Färögatan 6
Stockholm Kista 164 80
SE

00-13-4E (hex) Valox Systems, Inc.
00134E (base 16) Valox Systems, Inc.
#704, Ace Twin tower 2, 212-30, Guro-3dong, Guro-gu
Seoul 152-779
KR

00-13-C3 (hex) Cisco Systems, Inc
0013C3 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568

US

00-13-BD (hex) HYMATOM SA
0013BD (base 16) HYMATOM SA
Zone Industrielle
VENDARGUES HERAULT 34740
FR

00-13-BA (hex) ReadyLinks Inc
0013BA (base 16) ReadyLinks Inc
6595 Edenvale Boulevard
Eden Prairie MN 55346
US

00-13-97 (hex) Oracle Corporation
001397 (base 16) Oracle Corporation
500 Oracle Parkway
Redwood Shores CA 94065
US

00-13-36 (hex) Tianjin 712 Communication Broadcasting
co., ltd.
001336 (base 16) Tianjin 712 Communication Broadcasting co., ltd.
No.185, Xinda Road, Hebei District
Tianjin 300140
CN

00-13-B8 (hex) RyCo Electronic Systems Limited
0013B8 (base 16) RyCo Electronic Systems Limited
Unit E, Cartel Business Estate
Harlow Essex CM20 2TT
GB

00-13-B6 (hex) Sling Media, Inc.
0013B6 (base 16) Sling Media, Inc.
1840 Gateway Center
San Mateo CA 94404
US

00-13-B4 (hex) Appear AS
0013B4 (base 16) Appear AS
P.O. Box 8 Lilleaker
Oslo NO-0216
NO

00-13-AE (hex) Radiance Technologies, Inc.
0013AE (base 16) Radiance Technologies, Inc.
350 Wynn Dr.

Huntsville Alabama 35805
US

00-13-44 (hex) Fargo Electronics Inc.
001344 (base 16) Fargo Electronics Inc.
6533 Flying Cloud Drive
Eden Prairie MN 55344
US

00-13-48 (hex) Artila Electronics Co., Ltd.
001348 (base 16) Artila Electronics Co., Ltd.
2F., No.1, Alley 8,
Siwei Lane, Zhongzheng Rd.,
Xindian City Taipei County 231
TW

00-12-D6 (hex) Jiangsu Yitong High-Tech Co.,Ltd
0012D6 (base 16) Jiangsu Yitong High-Tech Co.,Ltd
No 216 Huanghe Road
Changshu Jiangsu 215500
CN

00-12-DA (hex) Cisco Systems, Inc
0012DA (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-12-D3 (hex) Zetta Systems, Inc.
0012D3 (base 16) Zetta Systems, Inc.
17311 135th AVE NE
Woodinville WA 98072
US

00-12-D5 (hex) Motion Reality Inc.
0012D5 (base 16) Motion Reality Inc.
200 North Cobb Parkway
Marietta GA 30062
US

00-12-D8 (hex) International Games System Co., Ltd.
0012D8 (base 16) International Games System Co., Ltd.
No.130, Wu-Gung Rd., Wu-Gu Industrial Park,
Taipei 248
TW

00-13-14 (hex) Asiamajor Inc.
001314 (base 16) Asiamajor Inc.

6F-9, No. 268, Lian-Cheng Rd., Junghe City,
Taipei 235
TW

00-13-16 (hex) L-S-B
Broadcast Technologies GmbH
001316 (base 16) L-S-B Broadcast Technologies GmbH
Gustav-Stresemann-Str. 8
Bingen Rheinland-Pfalz 55411
DE

00-13-12 (hex) Amedia Networks Inc.
001312 (base 16) Amedia Networks Inc.
101 Crawfords Corner Rd
Holmdel NJ 07733
US

00-12-E6 (hex) SPECTEC COMPUTER CO., LTD.
0012E6 (base 16) SPECTEC COMPUTER CO., LTD.
6F., No. 92, Nanking E. Rd. Sec. 5,
Taipei 105
TW

00-12-E3 (hex) Agat Soft LLC
0012E3 (base 16) Agat Soft LLC
building 14, stroenie 15, room 7
Moscow Serebryakova proezd 129343
RU

00-12-DB (hex) ZIEHL industrie-elektronik GmbH + Co KG
0012DB (base 16) ZIEHL industrie-elektronik GmbH + Co KG
Daimlerstraße 13
Schwäbisch Hall 74523
DE

00-13-00 (hex) IT-FACTORY, INC.
001300 (base 16) IT-FACTORY, INC.
1-16-26 TAKAGI MINAMI-KU
FUKUOKA-SHI FUKUOKA-KEN 815-0004
JP

00-12-EF (hex) OneAccess SA
0012EF (base 16) OneAccess
SA
28 rue de la Redoute
Fontenay aux Roses 92260
FR

00-12-E9 (hex) Abbey Systems Ltd
0012E9 (base 16) Abbey Systems Ltd
Level 4, 220 Willis St
Wellington 6030
NZ

00-13-22 (hex) DAQ Electronics, Inc.
001322 (base 16) DAQ Electronics, Inc.
262B Old New Brunswick Road
Piscataway NJ 08854
US

00-13-23 (hex) Cap Co., Ltd.
001323 (base 16) Cap Co., Ltd.
11F,684-2,deungchon 3-dong,gangseo-gu
Seoul 157-754
KR

00-12-A2 (hex) VITA
0012A2 (base 16) VITA
PO Box 19658
Fountain Hills AZ 85269
US

00-12-A8 (hex) intec GmbH
0012A8 (base 16) intec GmbH
Rahmedestraße 90
Luedenscheid NRW 58507
DE

00-12-A5 (hex) Dolphin Interconnect Solutions AS
0012A5 (base 16) Dolphin Interconnect Solutions AS
NILS Hansens Vei 13
Oslo 0667
NO

00-12-9E (hex) Surf Communications Inc.
00129E (base 16) Surf Communications Inc.
Room 313, 3F, Bldg.52,
No. 195, Chung Hsing Rd., Sec 4, Chutung, HsinChu, Taiwan
HsinChu 310
TW

00-12-51 (hex) SILINK
001251 (base 16) SILINK
13 RUE POMEYS
LE TAILLAN 33320
FR

00-12-45 (hex) Zellweger Analytics, Inc.
001245 (base 16) Zellweger Analytics, Inc.
405 Barclay Blvd.
Lincolnshire Illinois 60069
US

00-12-BA (hex) FSI Systems, Inc.
0012BA (base 16) FSI Systems, Inc.
5847 County Road 41
Farmington NY 14425
US

00-12-B2 (hex) AVOLITES LTD.
0012B2 (base 16) AVOLITES LTD.
184 PARK AVENUE
LONDON NW10 7XL
GB

00-12-AE (hex) HLS HARD-LINE Solutions Inc.
0012AE (base 16) HLS HARD-LINE Solutions Inc.
53 Main Street
Dowling Ontario P0M 1R0
CA

00-12-AF (hex) ELPRO Technologies
0012AF (base 16) ELPRO Technologies
9 / 12 Billabong St.
Stafford Queensland 4053
AU

00-12-42 (hex) Millennial Net
001242 (base 16) Millennial Net
285 Billerica Road
Chelmsford
MA 01803
US

00-12-41 (hex) a2i marketing center
001241 (base 16) a2i marketing center
1024-4 Duksan Bldg Bangbaedong Seochogu Seoul Korea
SEOUL 137-060
KR

00-12-3B (hex) KeRo Systems ApS
00123B (base 16) KeRo Systems ApS
Allikevej 3
Hørsholm 2970

DK

00-12-92 (hex) Griffin Technology
001292 (base 16) Griffin Technology
1930 Air Lane Drive
Nashville TN 37210
US

00-12-82 (hex) Qovia
001282 (base 16) Qovia
7470 New Technology Way
Frederick MD 21703
US

00-12-87 (hex) Digital Everywhere Unterhaltungselektronik GmbH
001287 (base 16) Digital Everywhere Unterhaltungselektronik GmbH
Maria Gailer Strasse 16
Villach Kärnten 9500
AT

00-12-85 (hex) Gizmondo Europe Ltd
001285 (base 16) Gizmondo Europe Ltd
1 Meadow Gate Avenue
Farnborough Hampshire GU14 6FG
GB

00-12-9A (hex) IRT Electronics Pty Ltd
00129A (base 16) IRT Electronics Pty Ltd
26
Hotham Parade
Artarmon NSW 2064
AU

00-12-8D (hex) STB Datenservice GmbH
00128D (base 16) STB Datenservice GmbH
Weinsbergstraße 190
Köln NRW 50825
DE

00-12-8E (hex) Q-Free ASA
00128E (base 16) Q-Free ASA
Th. Owesensgt. 35c
Trondheim 7443
NO

00-12-57 (hex) LeapComm Communication Technologies Inc.
001257 (base 16) LeapComm Communication Technologies Inc.
RM1804-05 South Tower Hong Kong Plaza, No.283 Huaihai Zhong Road

Shanghai 200021
CN

00-12-67 (hex) Panasonic Corporation
001267 (base 16) Panasonic Corporation
2460-1, Uegawa-Cho
Matsusaka-City Mie 571-8506
JP

00-12-65 (hex) Enerdyne Technologies, Inc.
001265 (base 16) Enerdyne Technologies, Inc.
1935 Cordell Court
El Cajon CA 92020
US

00-12-6D (hex) University of California, Berkeley
00126D (base 16) University of California, Berkeley
EECS Department
Berkeley CA 94720-1776
US

00-11-FA
(hex) Rane Corporation
0011FA (base 16) Rane Corporation
10802 47th Avenue West
Mukilteo WA 98275-5098
US

00-11-F2 (hex) Institute of Network Technologies
0011F2 (base 16) Institute of Network Technologies
17-th Line Vasilevsky Ostrov, 54-1
St.Petersburg 199178
RU

00-11-F3 (hex) NeoMedia Europe AG
0011F3 (base 16) NeoMedia Europe AG
Jens-Otto-Krag-Straße 11
Würselen 52146
DE

00-11-E9 (hex) STARNEX CO., LTD.
0011E9 (base 16) STARNEX CO., LTD.
4th Floor, C&C Bldg, 228-2
Kwangjin-gu Seoul 143-200
KR

00-11-EC (hex) AVIX INC.
0011EC (base 16) AVIX INC.

1-1, Fukuura, Kanazawa-ku
Yokohama-shi Kanagawa 236-0004
JP

00-12-0D (hex) Advanced Telecommunication Technologies, Inc.
00120D (base 16) Advanced Telecommunication Technologies, Inc.
10390 Wilshire Boulevard
Los Angeles California 90024
US

00-12-0E (hex) AboCom
00120E (base 16) AboCom
1F , No.
21, Yanfa 2nd Rd., SBIP
Hsinchu City 300
TW

00-12-02 (hex) Decrane Aerospace - Audio International Inc.
001202 (base 16) Decrane Aerospace - Audio International Inc.
7300 Industry Drive
North Little Rock AR 72117
US

00-11-FE (hex) Keiyo System Research, Inc.
0011FE (base 16) Keiyo System Research, Inc.
Hamada park Bldg. 6F
Chiba-city Chiba-pref 260-0028
JP

00-11-FD (hex) KORG INC.
0011FD (base 16) KORG INC.
4015-2, Yanokuchi
Inagi-City TOKYO 206-0812
JP

00-12-36 (hex) ConSentry Networks
001236 (base 16) ConSentry Networks
1690 McCandless Dr
Milipitas CA 95035
US

00-12-35 (hex) Andrew Corporation
001235 (base 16) Andrew Corporation
2601 Telecom Pkwy
Richardson TX 75082
US

00-12-26 (hex) Japan Direx Corporation

001226 (base 16) Japan Direx Corporation
Kyocera Harajuku Bldg.
Shibuya-ku Tokyo 150-0001
JP

00-12-29 (hex) BroadEasy Technologies
Co.,Ltd
001229 (base 16) BroadEasy Technologies Co.,Ltd
24th Floor,Tower A,JinShan Mansion,
Nanjing Jiangsu 210009
CN

00-12-22 (hex) Skardin (UK) Ltd
001222 (base 16) Skardin (UK) Ltd
No. 5 Greenway (RO24)
Harlow Essex CM19 5QB
GB

00-12-28 (hex) Data Ltd.
001228 (base 16) Data Ltd.
J. Hagaru 9
Bratislava 830 05
SK

00-12-1F (hex) Harding Instruments
00121F (base 16) Harding Instruments
9431-41Ave
Edmonton AB T6E 5X7
CA

00-11-E7 (hex) WORLDSAT - Texas de France
0011E7 (base 16) WORLDSAT - Texas de France
220, rue Gustave Eiffel
Aix en Provence Bouches du Rhone 13854
FR

00-11-E8 (hex) Tixi.Com
0011E8 (base 16) Tixi.Com
Karmeliterweg 114
Berlin 13465
DE

00-11-E0 (hex) U-MEDIA Communications, Inc.
0011E0 (base 16) U-MEDIA Communications, Inc.
9F, No.1 Jin-Shan St.
Hsinchu 300
TW

00-11-D0 (hex) Tandberg Data ASA
0011D0 (base
16) Tandberg Data ASA
Kjelsåsveien 161
Oslo 0411
NO

00-11-C3 (hex) Transceiving System Technology Corporation
0011C3 (base 16) Transceiving System Technology Corporation
NO.85,Sec.2,Gongdaowu Rd.,
Hsinchu 300
TW

00-11-C2 (hex) United Fiber Optic Communication
0011C2 (base 16) United Fiber Optic Communication
13-1,NO.700,Jungjeng RD,Junghe City
Junghe City Taipei 235
TW

00-11-BF (hex) AESYS S.p.A.
0011BF (base 16) AESYS S.p.A.
Via Artigiani, 41
Brusaporto Bergamo 24060
IT

00-11-B7 (hex) Octalix B.V.
0011B7 (base 16) Octalix B.V.
Molensteijn 60
De Meern NL-3454 PT
NL

00-11-B9 (hex) Inner Range Pty. Ltd.
0011B9 (base 16) Inner Range Pty. Ltd.
1 Millenium Court
Knoxfield Victoria 3180
AU

00-12-20 (hex) Cadco Systems
001220 (base 16) Cadco Systems
2363 Merritt Dr
Garland Texas 75041
US

00-12-10 (hex) WideRay Corp
001210 (base
16) WideRay Corp
25 Kearny Street
San Francisco CA 94108

US

00-11-CE (hex) Ubisense Limited
0011CE (base 16) Ubisense Limited
St. Andrews House
Chesterton Cambridge CB4 1DL
GB

00-11-98 (hex) Prism Media Products Limited
001198 (base 16) Prism Media Products Limited
William James House
Cambridge Cambridgeshire CB4 0WX
GB

00-11-97 (hex) Monitoring Technologies Limited
001197 (base 16) Monitoring Technologies Limited
14 Attenburys Park Estate
Timperley Cheshire WA14 5QE
GB

00-11-99 (hex) 2wcom Systems GmbH
001199 (base 16) 2wcom Systems GmbH
Am Sophienhof 8
Flensburg 24941
DE

00-11-62 (hex) STAR MICRONICS CO.,LTD.
001162 (base 16) STAR MICRONICS CO.,LTD.
536 Shimizunanatsushinya
Shizuoka 424-0066
JP

00-11-61 (hex) NetStreams, LLC
001161 (base 16) NetStreams, LLC
3600 W. Parmer Lane
Austin TX 78727
US

00-11-56 (hex) Pharos Systems NZ
001156
(base 16) Pharos Systems NZ
Level 3, 123 Carlton Gore Road
Auckland NZ 1001
NZ

00-11-59 (hex) MATISSE NETWORKS INC
001159 (base 16) MATISSE NETWORKS INC
339 N BERNARDO AVE

MOUNTAIN VIEW CA 94043
US

00-11-5C (hex) Cisco Systems, Inc
00115C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-11-5D (hex) Cisco Systems, Inc
00115D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-11-70 (hex) GSC SRL
001170 (base 16) GSC SRL
VIA PER VIMERCATE
USMATE VELATE MILANO 20040
IT

00-11-6B (hex) Digital Data Communications Asia Co.,Ltd
00116B (base 16) Digital Data Communications Asia Co.,Ltd
8F,No.41,Lane 221,Kang-Chien RD.,Nei-Hu Dis.,
Taipei City 114
TW

00-11-69 (hex) EMS Satcom
001169 (base 16) EMS Satcom
Green Lane
Tewkesbury Gloucestershire GL20 8HD
GB

00-11-A7 (hex) Infilco Degremont
Inc.
0011A7 (base 16) Infilco Degremont Inc.
8007 Discovery Dr.
Richmond Virginia 23255-1390
US

00-11-A3 (hex) LanReady Technologies Inc.
0011A3 (base 16) LanReady Technologies Inc.
4F, No. 337, SinHu 2nd Road., NeiHu District
Taipei 114
TW

00-11-A4 (hex) JStream Technologies Inc.
0011A4 (base 16) JStream Technologies Inc.

Bldg.53, R405, 195 Sec.4, Chung Hsing Rd.
Chutung, Hsinchu 310
TW

00-11-94 (hex) Chi Mei Communication Systems, Inc.
001194 (base 16) Chi Mei Communication Systems, Inc.
11F, No.39, Chung Hua RD. Sec 1
Taipei 100
TW

00-11-81 (hex) InterEnergy Co.Ltd,
001181 (base 16) InterEnergy Co.Ltd,
3F Shinyokohama Bosei Bldg.
Yokohama city Kanagawa 222-0033
JP

00-11-76 (hex) Intellambda Systems, Inc.
001176 (base 16) Intellambda Systems, Inc.
48501 Warm Springs Blvd, #107
Fremont California 94539
US

00-11-77 (hex) Coaxial Networks, Inc.
001177
(base 16) Coaxial Networks, Inc.
4633 Old Ironsides Dr
Santa Clara CA 95054
US

00-11-3D (hex) KN SOLTEC CO.,LTD.
00113D (base 16) KN SOLTEC CO.,LTD.
98B-5L NAMDONG INDUSTRIAL COMPLEX #662-4 GOJAN-DONG
NAMDONG-GU INCHEON 405-818
KR

00-11-34 (hex) MediaCell, Inc.
001134 (base 16) MediaCell, Inc.
600 17th St
Denver CO 80202
US

00-11-35 (hex) Grandeye Ltd
001135 (base 16) Grandeye Ltd
6 Huxley Road
Guildford Surrey GU2 7RE
GB

00-11-49 (hex) Proliphix Inc.

001149 (base 16) Proliphix Inc.
3 Lan Drive
Westford MA 01886
US

00-11-3B (hex) Micronet Communications Inc.
00113B (base 16) Micronet Communications Inc.
12F-1, No. 100, Min-Chuan Road
Hsin-Tien Taipei 231
TW

00-0F-C1 (hex) WAVE Corporation
000FC1 (base 16) WAVE Corporation
3-25-5 Chidori
Ohta-ku Tokyo 146-0083
JP

00-0F-C4 (hex) NST co.,LTD.
000FC4 (base 16) NST co.,LTD.
4-3-1
SHINMIYAKODA
HAMAMATSU SHIZUOKA 431-2103
JP

00-0F-C9 (hex) Allnet GmbH
000FC9 (base 16) Allnet GmbH
Maistraße 2
Germering Bavaria 82110
DE

00-0F-C6 (hex) Eurocom Industries A/S
000FC6 (base 16) Eurocom Industries A/S
porsvej 2
Aalborg NV DK-9200
DK

00-0F-BE (hex) e-w/you Inc.
000FBE (base 16) e-w/you Inc.
3F FINE Bldg. 6-17-17
Shinagawa-ku, Tokyo 140-0013
JP

00-0F-C0 (hex) DELCOMp
000FC0 (base 16) DELCOMp
Technologielaan 3
Leuven B-3000
BE

00-0F-BA (hex) Tevebox AB
000FBA (base 16) Tevebox AB
Berglinds vag 13
warmdo S-13900
SE

00-0F-B8 (hex) CallURL Inc.
000FB8 (base 16) CallURL Inc.
3F-11, No. 508 Sec. 5, Chung-Hsiao E. Rd.
Taipei 110
TW

00-0F-D8 (hex) Force, Inc.
000FD8 (base 16) Force, Inc.
825 Park Street
Christiansburg Va 24073
US

00-0F-D3 (hex) Digium
000FD3 (base 16) Digium
445 Jan
Davis Drive NW
Huntsville AL 35806
US

00-0F-D1 (hex) Applied Wireless Identifications Group, Inc.
000FD1 (base 16) Applied Wireless Identifications Group, Inc.
382 Route 59, Section 292
Monsey New York 10952
US

00-11-00 (hex) Schneider Electric
001100 (base 16) Schneider Electric
5460 Pottsville Pike
Leesport PA 19533
US

00-0F-FA (hex) Optinel Systems, Inc.
000FFA (base 16) Optinel Systems, Inc.
6835 Deerpath Rd.
Elkridge MD 21075
US

00-0F-FD (hex) Glorytek Network Inc.
000FFD (base 16) Glorytek Network Inc.
5F.-3, No.16, Sec. 1, Dongda Rd.,
Hsinchu 300
TW

00-0F-F9 (hex) Valcretec, Inc.
000FF9 (base 16) Valcretec, Inc.
Byucksan Digital Valley II 15F
Seoul 153-803
KR

00-11-26 (hex) Venstar Inc.
001126 (base 16) Venstar Inc.
9250 Owensmouth Ave.
Chatsworth CA 91311
US

00-11-2E (hex) CEICOM
00112E (base 16) CEICOM
17 rue Gaston
Evrard
Toulouse Cedex 1 31094
FR

00-11-21 (hex) Cisco Systems, Inc
001121 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-11-22 (hex) CIMSYS Inc
001122 (base 16) CIMSYS Inc
#301,Sinsung-clean BLDG,140, Nongseo-Ri,Kiheung-Eup
Yongin-City Kyunggi-Do 449-711
KR

00-0F-B7 (hex) Cavium
000FB7 (base 16) Cavium
2315 N First Street
San Jose CA 95131
US

00-11-09 (hex) Micro-Star International
001109 (base 16) Micro-Star International
No 69, Li-De Street, Jung-He City,
Taipei
TW

00-11-04 (hex) TELEXY
001104 (base 16) TELEXY
1116, HYUNDAI 41 TOWER, 917-9
SEOUL 158-723

KR

00-0F-F7 (hex) Cisco Systems, Inc
000FF7 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0F-A9 (hex) PC Fabrik
000FA9 (base 16) PC Fabrik
Buchenstrasse 13-15
Dresden Sachsen 01097
DE

00-0F-9A (hex) Synchrony,
Inc.
000F9A (base 16) Synchrony, Inc.
6410 Commonwealth Drive
Roanoke VA 24018
US

00-0F-A0 (hex) Canon Korea Inc.
000FA0 (base 16) Canon Korea Inc.
607, Teheran-ro, Gangnam-gu
Seoul Gangnam-gu 06173
KR

00-11-16 (hex) COTEAU VERT CO., LTD.
001116 (base 16) COTEAU VERT CO., LTD.
3-3-19 KACHIDOKI
CHUO-KU TOKYO 104-0054
JP

00-11-10 (hex) Maxanna Technology Co., Ltd.
001110 (base 16) Maxanna Technology Co., Ltd.
Room201, No.42-3, Luyuan Road
Guangzhou 510095
CN

00-0F-85 (hex) ADDO-Japan Corporation
000F85 (base 16) ADDO-Japan Corporation
Shin Edobashi Bldg. 4F, 8-6 Nihombashi Kobuna-cho
Chuo-ku Tokyo 103-0024
JP

00-0F-82 (hex) Mortara Instrument, Inc.
000F82 (base 16) Mortara Instrument, Inc.
7865 N. 86th St.

Milwaukee WI 53224
US

00-0F-81 (hex) PAL Pacific Inc.
000F81 (base 16) PAL Pacific Inc.
79405 Highway 111
La Quinta CA 92253
US

00-0F-7F
(hex) UBSTORAGE Co.,Ltd.
000F7F (base 16) UBSTORAGE Co.,Ltd.
#A-108, Seoul_Sanup_Jiwon_Center
Ganseo-gu Seoul 157-840
KR

00-0F-49 (hex) Northover Solutions Limited
000F49 (base 16) Northover Solutions Limited
Heath Cottage
Larling Norfolk NR16 2RB
GB

00-0F-4B (hex) Oracle Corporation
000F4B (base 16) Oracle Corporation
900 Chelmsford Street
Lowell MA 01851
US

00-0F-4A (hex) Kyushu-kyohan co.,ltd
000F4A (base 16) Kyushu-kyohan co.,ltd
2-6-3,Koganemachi
Kitakyushu-city Fukuoka 802-0071
JP

00-0F-44 (hex) Tivella Inc.
000F44 (base 16) Tivella Inc.
795 Main Street
Half Moon Bay CA 94019
US

00-0F-40 (hex) Optical Internetworking Forum
000F40 (base 16) Optical Internetworking Forum
48377 Fremont Blvd
Fremont CA 94538
US

00-0F-33 (hex) DUALi Inc.
000F33 (base 16) DUALi Inc.

#505 Samsung Techno Park Bldg 471
Suwon Gyeonggi-do
442-824
KR

00-0F-2F (hex) W-LINX TECHNOLOGY CO., LTD.
000F2F (base 16) W-LINX TECHNOLOGY CO., LTD.
2F,ELLEN L. SKELTON BUILDING,FISHER LANE ROAD
TORTOLA
VG

00-0F-95 (hex) ELECOM Co.,LTD Laneed Division
000F95 (base 16) ELECOM Co.,LTD Laneed Division
8F Kanda-Muromachi Bldg.
Chiyoda-Ku, Tokyo. 101-0052
JP

00-0F-8A (hex) WideView
000F8A (base 16) WideView
F. 6, No. 8, Wu-chuan 2 Rd, Hsin-Chuang City
Taipei Country 242
TW

00-0F-5B (hex) Delta Information Systems, Inc.
000F5B (base 16) Delta Information Systems, Inc.
300 Welsh Road, Bldg. 3
Horsham PA 19044-2273
US

00-0F-55 (hex) Datawire Communication Networks Inc.
000F55 (base 16) Datawire Communication Networks Inc.
10 Carlson Court, Suite 300
Toronto Ontario M9W 6L2
CA

00-0F-56 (hex) Continuum Photonics Inc
000F56 (base 16) Continuum Photonics Inc
5 Fortune Drive
Billerica MA 01821
US

00-0F-90
(hex) Cisco Systems, Inc
000F90 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0F-8D (hex) FAST TV-Server AG
000F8D (base 16) FAST TV-Server AG
Ruedesheimerstraße 11-13
Munich Germany 80686
DE

00-0F-68 (hex) Vavic Network Technology, Inc.
000F68 (base 16) Vavic Network Technology, Inc.
1st Floor, 15 Jiangong Road
Guangzhou Guangdong 510665
CN

00-0F-60 (hex) Lifetron Co.,Ltd
000F60 (base 16) Lifetron Co.,Ltd
6-7,Tenjinnishimachi
Osaka Osaka Prefecture 530-0045
JP

00-0F-77 (hex) DENTUM CO.,LTD
000F77 (base 16) DENTUM CO.,LTD
Wookyung B/D 602 #678-6
Seoul 157-030
KR

00-0F-7B (hex) Arce Sistemas, S.A.
000F7B (base 16) Arce Sistemas, S.A.
C/Padre Larramendi, 3 - 2º
Bilbao Vizcaya 48012
ES

00-0F-1C (hex) DigitAll World Co., Ltd
000F1C (base 16) DigitAll World Co., Ltd
Sejin Bld 2F, 689 ilwon2-dong,
gangnam-gu
Seoul 135-946
KR

00-0E-F7 (hex) Vulcan Portals Inc
000EF7 (base 16) Vulcan Portals Inc
505 5th Ave South, Suite 900
Seattle WA 98104
US

00-0E-E9 (hex) WayTech Development, Inc.
000EE9 (base 16) WayTech Development, Inc.
11Floor, 253 Min-Sheng Road
HsinChu 300
TW

00-0E-F0 (hex) Festo AG & Co. KG
000EF0 (base 16) Festo AG & Co. KG
Ruiterstraße 82
Esslingen 73734
DE

00-0E-EB (hex) Sandmartin(zhong shan)Electronics Co.,Ltd
000EEB (base 16) Sandmartin(zhong shan)Electronics Co.,Ltd
3st Industrial Area,Tan Zhou,
Zhongshan Guangdong 528467
CN

00-0E-EC (hex) Orban
000EEC (base 16) Orban
1525 Alvarado St.
San Leandro CA 94577
US

00-0E-EF (hex) Private
000EEF (base 16) Private

00-0E-F1 (hex) EZQUEST INC.
000EF1 (base 16) EZQUEST INC.
23311 E. LA PALMA AVE.
YORBA LINDA CA 92887
US

00-0E-E7 (hex) AAC ELECTRONICS CORP.
000EE7 (base 16) AAC
ELECTRONICS CORP.
FLOOR 7,SIXTH BUILDING OF NAIANYOU TNAN INDUSTRIAL AREA,NANSHAN DISTRICT
SHENZHEN PROVINCE GUANGDONG 518054
CN

00-0F-1A (hex) Gaming Support B.V.
000F1A (base 16) Gaming Support B.V.
Industrie weg 29
Rotterdam 3044 AS
NL

00-0F-0A (hex) Clear Edge Networks
000F0A (base 16) Clear Edge Networks
11250 El Camino Real
San Diego CA 92130
US

00-0F-02 (hex) Digicube Technology Co., Ltd

000F02 (base 16) Digicube Technology Co., Ltd
8F,No. 51, Lane 35, Jihu Rd.,
Taipei 114
TW

00-0E-DA (hex) C-TECH UNITED CORP.
000EDA (base 16) C-TECH UNITED CORP.
5F, No 665, CHUNG CHEN RD.
HSIN CHUANG CITT of TAIPEI HSIEN 242
TW

00-0E-C9 (hex) YOKO Technology Corp.
000EC9 (base 16) YOKO Technology Corp.
6F, No.10, Lane16, Sec2, Sze-Chuan Rd., Pan-
Taipei 886
TW

00-0E-D0 (hex) Privaris, Inc.
000ED0 (base 16) Privaris, Inc.
675 Peter Jefferson
Pkwy, Ste 150
Charlottesville Virginia 22911
US

00-0E-C3 (hex) Logic Controls, Inc.
000EC3 (base 16) Logic Controls, Inc.
355 Denton Avenue
New Hyde Park NY 11040
US

00-0E-C4 (hex) Iskra Transmission d.d.
000EC4 (base 16) Iskra Transmission d.d.
Stegne 11
Ljubljana 1000
SI

00-0E-E2 (hex) Custom Engineering
000EE2 (base 16) Custom Engineering
Via Beretttine 2/b
Fontevivo Parma 43010
IT

00-0E-E3 (hex) Chiyu Technology Co.,Ltd
000EE3 (base 16) Chiyu Technology Co.,Ltd
No. 28, Renai Road, Chiayi, 600
Chiayi 600
TW

00-0E-E5 (hex) bitWallet, Inc.
000EE5 (base 16) bitWallet, Inc.
Gate City Ohsaki West Tower 18F, 1-11-1 Osaki, Shinagawa-ku
Tokyo 1410032
JP

00-0E-CF (hex) PROFIBUS Nutzerorganisation e.V.
000ECF (base 16) PROFIBUS Nutzerorganisation e.V.
Haid-und-Neu-Straße 7
Karlsruhe Baden-Württemberg 76131
DE

00-0E-C1 (hex) MYNAH Technologies
000EC1
(base 16) MYNAH Technologies
504 Trade Center Blvd
Chesterfield MO 63005
US

00-0E-BD (hex) Burdick, a Quinton Compny
000EBD (base 16) Burdick, a Quinton Compny
500 Burdick Parkway
Deerfield WI 53531
US

00-0E-B9 (hex) HASHIMOTO Electronics Industry Co.,Ltd.
000EB9 (base 16) HASHIMOTO Electronics Industry Co.,Ltd.
3866-12 Takasu-cho
Matsusaka Mie 515-0104
JP

00-0E-98 (hex) HME Clear-Com LTD.
000E98 (base 16) HME Clear-Com LTD.
7400 Beach Drive
Cambridgeshire CB25 9TP
GB

00-0E-99 (hex) Spectrum Digital, Inc
000E99 (base 16) Spectrum Digital, Inc
12502 Exchange Drive, Suite 440
Stafford TX 77477
US

00-0E-95 (hex) Fujiya Denki Seisakusho Co.,Ltd.
000E95 (base 16) Fujiya Denki Seisakusho Co.,Ltd.
8F Fukushima BLDG. 6-25-11,Nishi-Gotanda
Shinagawa-Ku Tokyo 141-0031
JP

00-0E-A7 (hex) Endace Technology
000EA7 (base 16) Endace Technology
85
Alexandra Street
Hamilton 3204
NZ

00-0E-A1 (hex) Formosa Teletek Corporation
000EA1 (base 16) Formosa Teletek Corporation
358,Huaya 2nd Rd.
Taoyuan 333
TW

00-0F-05 (hex) 3B SYSTEM INC.
000F05 (base 16) 3B SYSTEM INC.
1727, SANKYUK2-DONG, BUK-GU
DAEGU 702-845
KR

00-0E-B2 (hex) Micro-Research Finland Oy
000EB2 (base 16) Micro-Research Finland Oy
Välitalontie 83 C
Helsinki FIN-00660
FI

00-0E-B5 (hex) Ecastle Electronics Co., Ltd.
000EB5 (base 16) Ecastle Electronics Co., Ltd.
#502, Namjang B/D, Bangbae-dong,
Seoul 137-818
KR

00-0E-4F (hex) Trajet GmbH
000E4F (base 16) Trajet GmbH
Rebenring 33
Braunschweig Nds. 38106
DE

00-0E-50 (hex) Thomson Telecom Belgium
000E50 (base 16) Thomson Telecom Belgium
Prins Boudewijnlaan 47
Edegem Antwerp B-2650
BE

00-0E-4B (hex) atrium c and i
000E4B (base 16) atrium c and i
124-4, Ojeon-dong,
Uiwang-city

Kyunggi-Do 437-819
KR

00-0E-82 (hex) Infinity Tech
000E82 (base 16) Infinity Tech
PO Box 149, Greenwood
Perth W. A. 6924
AU

00-0E-89 (hex) CLEMATIC
000E89 (base 16) CLEMATIC
101 rue Pierre SEMARD
CHATILLON R.P. 92320
US

00-0E-79 (hex) Ample Communications Inc.
000E79 (base 16) Ample Communications Inc.
4034 Clipper Ct.
Fremont CA 94538
US

00-0E-45 (hex) Beijing Newtry Electronic Technology Ltd
000E45 (base 16) Beijing Newtry Electronic Technology Ltd
PO Box 95, No. 1 Bei Sha Tan,
Beijing 10083
CN

00-0E-3F (hex) Soronti, Inc.
000E3F (base 16) Soronti, Inc.
12159 Business Park Dr, Suite 140
Draper Utah 84020
US

00-0E-38 (hex) Cisco Systems, Inc
000E38 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0E-36 (hex) HEINESYS, Inc.
000E36 (base 16) HEINESYS, Inc.
3F, Sungkwang Bldg. 456-13, Sungnae-dong
Seoul
134-848
KR

00-0E-2B (hex) Safari Technologies
000E2B (base 16) Safari Technologies

63855 M40 Hwy
Lawton MI 49065
US

00-0E-28 (hex) Dynamic Ratings P/L
000E28 (base 16) Dynamic Ratings P/L
C/O Wilson Transformer Co.
Glen Waverley Victoria 3150
AU

00-0E-97 (hex) Ultracker Technology CO., Inc
000E97 (base 16) Ultracker Technology CO., Inc
14F-1, No. 888, Jingguo Road, Taoyuan City,
Taoyuan 330
TW

00-0E-1D (hex) ARION Technology Inc.
000E1D (base 16) ARION Technology Inc.
3F, Pica Bldg, 894-2, Hogye 2 Dong
An-Yang City Gyeonggi-Do
KR

00-0E-12 (hex) Adaptive Micro Systems Inc.
000E12 (base 16) Adaptive Micro Systems Inc.
7840 North 86th St.
Milwaukee WI 53224
US

00-0E-17 (hex) Private
000E17 (base 16) Private

00-0E-15 (hex) Tadlys LTD
000E15 (base 16) Tadlys LTD
ISRAELI SHIMON 3
RISHON lEZYYON ISRAEL 75654
US

00-0E-6F
(hex) IRIS Corporation Berhad
000E6F (base 16) IRIS Corporation Berhad
IRIS Smart Technology Complex
Kuala Lumpur WP 57000
MY

00-0D-CC (hex) NEOSMART Corp.
000DCC (base 16) NEOSMART Corp.
Yoon-B/D 4F, 475-31, Bangbae 2-dong
Seoul Seocho-gu 147-819

KR

00-0D-CE (hex) Dynavac Technology Pte Ltd
000DCE (base 16) Dynavac Technology Pte Ltd
30 Tuas Avenue 9
639183
SG

00-0D-C3 (hex) First Communication, Inc.
000DC3 (base 16) First Communication, Inc.
1F, No.36, Industry E. Rd. IV.,
Hsinchu
TW

00-0D-B9 (hex) PC Engines GmbH
000DB9 (base 16) PC Engines GmbH
Flughofstrasse 58
8152 Glattbrugg
CH

00-0D-E6 (hex) YOUNGBO ENGINEERING CO.,LTD
000DE6 (base 16) YOUNGBO ENGINEERING CO.,LTD
Mt.22, Jaeunga-ri, Jigsan-Eup,
Cheonan-shi Chungcheongnam-do #330-810
KR

00-0D-DF (hex) Japan Image & Network Inc.
000DDF (base 16) Japan Image & Network Inc.
5-29-12
Shiba
Minato-ku Tokyo 108-0014
JP

00-0D-95 (hex) Opti-cell, Inc.
000D95 (base 16) Opti-cell, Inc.
100 High Tower Blvd., Suite 301
Pittsburgh PA 15205
US

00-0D-91 (hex) Eclipse (HQ Espana) S.L.
000D91 (base 16) Eclipse (HQ Espana) S.L.
CC de Negocios
Puerto de Banus Marbella 29660
ES

00-0D-80 (hex) Online Development Inc
000D80 (base 16) Online Development Inc
7209 Chapman Hwy

Knoxville Tn 37920
US

00-0D-E8 (hex) Nasaco Electronics Pte. Ltd
000DE8 (base 16) Nasaco Electronics Pte. Ltd
Level 4, Nasaco Tech Centre
486056
SG

00-0D-E9 (hex) Napatech Aps
000DE9 (base 16) Napatech Aps
Rundofrbivej 271, 1
Naerum 2850
DK

00-0D-B7 (hex) SANKO ELECTRIC CO,.LTD
000DB7 (base 16) SANKO ELECTRIC CO,.LTD
7-23 Tamanoi-cho Atsuta-ku
Nagoya-shi Aichi 456-0025
JP

00-0D-AC (hex) Japan CBM Corporation
000DAC (base 16) Japan CBM Corporation
5-68-10
Nakano,
Nakano-Ku Tokyo 164-0001
JP

00-0D-DB (hex) AIRWAVE TECHNOLOGIES INC.
000DDB (base 16) AIRWAVE TECHNOLOGIES INC.
3F,No.9,Industry E. 9th Road
Hsinchu 300
TW

00-0D-CB (hex) Petcomkorea Co., Ltd.
000DCB (base 16) Petcomkorea Co., Ltd.
5F,689-47,Geumjeong-dong,Gunpo-si,Kyungg
Kyunggi-do gunpo-si 435-050
KR

00-0E-01 (hex) ASIP Technologies Inc.
000E01 (base 16) ASIP Technologies Inc.
10F-2, NO.322, Sec.1, Guangfu Rd.,
Hsinchu 300
TW

00-0E-04 (hex) CMA/Microdialysis AB
000E04 (base 16) CMA/Microdialysis AB

Dalvägen 10 / Box 2
Solna 171 18
SE

00-0D-29 (hex) Cisco Systems, Inc
000D29 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0D-26 (hex) Primagraphics Limited
000D26 (base 16) Primagraphics Limited
Cambridge House, No.2 Focus Four
Letchworth Garden City Hertfordshire SG6 2TU
GB

00-0D-19 (hex) ROBE Show
lighting
000D19 (base 16) ROBE Show lighting
Hazovice 2090
Roznov pod Radhostem 756 61
US

00-0D-1C (hex) Amesys Defense
000D1C (base 16) Amesys Defense
1030 Av de la LAUZIERE
AIX en PROVENCE Cedex 03 13794
FR

00-0D-62 (hex) Funkwerk Dabendorf GmbH
000D62 (base 16) Funkwerk Dabendorf GmbH
Maerkische Strasse
Dabendorf Brandenburg 15806
DE

00-0D-65 (hex) Cisco Systems, Inc
000D65 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0D-55 (hex) SANYCOM Technology Co.,Ltd
000D55 (base 16) SANYCOM Technology Co.,Ltd
6F,Beijing Capital Times Square,88# Xich
Beijing 100031
CN

00-0D-57 (hex) Fujitsu I-Network Systems Limited.

000D57 (base 16) Fujitsu I-Network Systems Limited.
1-403 kosugi-cho nakahara-ku
kawasaki kanagawa 211-0063
JP

00-0D-58 (hex) Private
000D58 (base 16) Private

00-0C-F9 (hex) Xylem Water Solutions
000CF9
(base 16) Xylem Water Solutions
Gesallvagen

SE

00-0C-ED (hex) Real Digital Media
000CED (base 16) Real Digital Media
485 North Keller Road
Maitland FL 32751
US

00-0C-F0 (hex) M & N GmbH
000CF0 (base 16) M & N GmbH
Dieselstr 18
Rosbach v.d.H. 61191
DE

00-0C-F4 (hex) AKATSUKI ELECTRIC MFG.CO.,LTD.
000CF4 (base 16) AKATSUKI ELECTRIC MFG.CO.,LTD.
593-1,aoji- cho
kusatsu shi shiga 525-0041
JP

00-0C-F3 (hex) CALL IMAGE SA
000CF3 (base 16) CALL IMAGE SA
867 Route Imperiale
BAILLARGUES 34670
FR

00-0D-41 (hex) Siemens AG ICM MP UC RD IT KLF1
000D41 (base 16) Siemens AG ICM MP UC RD IT KLF1
Suedstrasse 9
Kamp-Lintfort NRW 47475
DE

00-0D-42 (hex) Newbest Development Limited
000D42 (base 16) Newbest Development Limited
3/F Unit 311-312

Shatin NT
HK

00-0D-3C (hex) i.Tech Dynamic Ltd
000D3C (base 16) i.Tech Dynamic Ltd
Room
1112, Metroplaza Tower 2, 223 Hing
852
HK

00-0D-0C (hex) MDI Security Systems
000D0C (base 16) MDI Security Systems
9518 Ninth Street
Rancho Cucamonga CA 91730
US

00-0D-01 (hex) P&E Microcomputer Systems, Inc.
000D01 (base 16) P&E Microcomputer Systems, Inc.
710 Commonwealth Ave
Boston Ma 02215
US

00-0D-00 (hex) Seaway Networks Inc.
000D00 (base 16) Seaway Networks Inc.
1 Chrysalis Way
Ottawa Ontario K2G 6P9
CA

00-0D-51 (hex) DIVR Systems, Inc.
000D51 (base 16) DIVR Systems, Inc.
2161 Saturn Ct.
Bakersfield CA 93308
US

00-0D-45 (hex) Tottori SANYO Electric Co., Ltd.
000D45 (base 16) Tottori SANYO Electric Co., Ltd.
3-201, Minami Yoshikata
Tottori City Tottori 680-8634
JP

00-0D-46 (hex) Parker SSD Drives
000D46 (base 16) Parker SSD Drives
9225 Forsyth Park Drive
Charlotte NC 28273-3884
US

00-0D-35 (hex) PAC International Ltd
000D35

(base 16) PAC International Ltd
1 Park Gate Close
Stockport Cheshire SK6 2SZ
GB

00-0D-2A (hex) Scanmatic AS
000D2A (base 16) Scanmatic AS
Kilsund
Staubø 4920
NO

00-0D-13 (hex) Wilhelm Rutenbeck GmbH&Co.KG
000D13 (base 16) Wilhelm Rutenbeck GmbH&Co.KG
Niederworth 1-10
Schalksmühle NRW 58579
DE

00-0D-16 (hex) UHS Systems Pty Ltd
000D16 (base 16) UHS Systems Pty Ltd
PO Box 6264
Alexandria NSW 2015
AU

00-0D-1F (hex) AV Digital
000D1F (base 16) AV Digital
Pottendorfer Strasse 25-27/4/1/1
Wien 1120
AT

00-0C-E0 (hex) Trek Diagnostics Inc.
000CE0 (base 16) Trek Diagnostics Inc.
982 Keynote Circle
Cleveland Ohio 44131
US

00-0C-E2 (hex) Rolls-Royce
000CE2 (base 16) Rolls-Royce
105 N. Sandusky St.
Mt. Vernon Ohio 43050
US

00-0C-AA (hex) Cubic Transportation Systems Inc
000CAA (base 16) Cubic Transportation Systems Inc
1308 S. Washington
Street
Tullahoma TN 37388
US

00-0C-AC (hex) Citizen Watch Co., Ltd.
000CAC (base 16) Citizen Watch Co., Ltd.
6-1-12, Tanashi-cho
Nishi-Tokyo-shi Tokyo 188-8511
JP

00-0C-AE (hex) Ailocom Oy
000CAE (base 16) Ailocom Oy
Hatanpaan valtatie 24
TAMPERE FIN 33950
FI

00-0C-9E (hex) MemoryLink Corp.
000C9E (base 16) MemoryLink Corp.
36 Jewelers Park Drive
Neenah Wisconsin 54957
US

00-0C-95 (hex) PrimeNet
000C95 (base 16) PrimeNet
Hongik University, 72-1, Sangsu-Dong, Ma
Seoul 121-791
KR

00-0C-9C (hex) Chongho information & communications
000C9C (base 16) Chongho information & communications
Chongho Bldg, #7-61 Yangjae-dong, Seocho
Seoul 137-130
KR

00-0C-97 (hex) NV ADB TTV Technologies SA
000C97 (base 16) NV ADB TTV Technologies SA
LEUVENSESTEENWEG,585
ZAVENTEM Vlaamse brabant 1930
BE

00-0C-8F (hex) Nergal s.r.l.
000C8F (base 16) Nergal
s.r.l.
Viale Bardanzellu,8
Roma 00155
IT

00-0C-92 (hex) WolfVision Gmbh
000C92 (base 16) WolfVision Gmbh
VWP
Goetzis Vorarlberg A-6840
AT

00-0C-93 (hex) Xeline Co., Ltd.
000C93 (base 16) Xeline Co., Ltd.
7F. Chungjin Bldg., 475-22
Seoul 137-819
KR

00-0C-7F (hex) synertronixx GmbH
000C7F (base 16) synertronixx GmbH
Lange Laube 22
Hannover Niedersachsen 30159
DE

00-0C-D1 (hex) SFOM Technology Corp.
000CD1 (base 16) SFOM Technology Corp.
No.18, Lane 32, Wufu 1st Rd., Luju shian
Luju Shiang Tauyuan County 338
TW

00-0C-D8 (hex) M. K. Juchheim GmbH & Co
000CD8 (base 16) M. K. Juchheim GmbH & Co
Moltkestraße 13 - 31
Fulda Hessen 36039
DE

00-0C-CE (hex) Cisco Systems, Inc
000CCE (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0C-CF (hex) Cisco Systems, Inc
000CCF (base 16) Cisco Systems, Inc
80 West
Tasman Drive
San Jose CA 94568
US

00-0C-C6 (hex) Ka-Ro electronics GmbH
000CC6 (base 16) Ka-Ro electronics GmbH
Pascalstraße 22
Aachen NW 52076
DE

00-0C-C4 (hex) Tiptel AG
000CC4 (base 16) Tiptel AG
Halskestrasse 1
Ratingen NRW 40880

DE

00-0C-BA (hex) Jamex, Inc.
000CBA (base 16) Jamex, Inc.
2415 N Triphammer Rd
Ithaca NY 14850
US

00-0C-81 (hex) Schneider Electric (Australia)
000C81 (base 16) Schneider Electric (Australia)
80 Schneider Road
Eagle Farm Qld 4009
AU

00-0C-80 (hex) Opelcomm Inc.
000C80 (base 16) Opelcomm Inc.
46750 Fremont Blvd. Ste 210
Fremont CA 94538
US

00-0C-7D (hex) TEIKOKU ELECTRIC MFG. CO., LTD
000C7D (base 16) TEIKOKU ELECTRIC MFG. CO., LTD
60,HIRANO
IBO-GUN HYOGO 679-4395
JP

00-0C-B7 (hex) Nanjing Huazhuo Electronics Co., Ltd.
000CB7 (base 16) Nanjing Huazhuo Electronics Co., Ltd.
No.77 Gaohu Road
Nanjing
Jiangsu 211100
CN

00-0C-76 (hex) MICRO-STAR INTERNATIONAL CO., LTD.
000C76 (base 16) MICRO-STAR INTERNATIONAL CO., LTD.
No 69, Li-De Street, Jung-He City, Taipe
Taipei
TW

00-0C-68 (hex) SigmaTel, Inc.
000C68 (base 16) SigmaTel, Inc.
201 Jones Road
Waltham MA 02451
US

00-0C-AD (hex) BTU International
000CAD (base 16) BTU International
23 Esquire Rd

North Billerica MA 01862
US

00-0C-A3 (hex) Rancho Technology, Inc.
000CA3 (base 16) Rancho Technology, Inc.
10783 Bell Court
Rancho Cucamonga CA 19730
US

00-0C-0E (hex) XtremeSpectrum, Inc.
000C0E (base 16) XtremeSpectrum, Inc.
8133 Leesburg Pike
Vienna VA 22182
US

00-0C-12 (hex) Micro-Optronic-Messtechnik GmbH
000C12 (base 16) Micro-Optronic-Messtechnik GmbH
Lessingstrasse 14
Langebrück Saxony D-01465
DE

00-0C-10 (hex) PNI Corporation
000C10 (base 16) PNI Corporation
5464 Skylane
Blvd #A
Santa Rosa CA 95403
US

00-0C-0A (hex) Guangdong Province Electronic Technology Research Institute
000C0A (base 16) Guangdong Province Electronic Technology Research Institute
Electronic Technology Building,NO.61-65,
Guangzhou Guangdong 510630
CN

00-0C-0B (hex) Broadbus Technologies
000C0B (base 16) Broadbus Technologies
80 Central Street
Boxborough Massachusetts 01719
US

00-0C-07 (hex) Iftest AG
000C07 (base 16) Iftest AG
Schwimmbadstrasse 43
Wettingen AG 5430
CH

00-0C-0C (hex) APPRO TECHNOLOGY INC.
000C0C (base 16) APPRO TECHNOLOGY INC.

13F, No. 66 Chung-Cheng Rd,
Hsin-Chuang Taipei 242
TW

00-0B-F9 (hex) Gemstone Communications, Inc.
000BF9 (base 16) Gemstone Communications, Inc.
6Fl., No. 102, Hengyang Rd.
Taipei 100
TW

00-0B-EA (hex) Zultys Technologies
000BEA (base 16) Zultys Technologies
785 Lucern Drive
Sunnyvale CA 94085
US

00-0B-DD
(hex) TOHOKU RICOH Co., LTD.
000BDD (base 16) TOHOKU RICOH Co., LTD.
3-1 Shinmeido
Shibata Miyagi pref. 989-1695
JP

00-0B-E5 (hex) HIMS International Corporation
000BE5 (base 16) HIMS International Corporation
139-9
Daejeon Daejeon 305-806
KR

00-0C-23 (hex) Beijing Lanchuan Tech. Co., Ltd.
000C23 (base 16) Beijing Lanchuan Tech. Co., Ltd.
Rm220,No.30 Shangyuancun,Gaoliangqiaolu,
Beijing 100044
CN

00-0C-25 (hex) Allied Telesis Labs, Inc.
000C25 (base 16) Allied Telesis Labs, Inc.
Suite 450
Raleigh NC 27606
US

00-0C-18 (hex) Zenisu Keisoku Inc.
000C18 (base 16) Zenisu Keisoku Inc.
2-13-37
Fuchu-shi Tokyo 183-0027
JP

00-0C-3A (hex) Oxance

000C3A (base 16) Oxance
75-85 rue Richelieu
les Lucs sur Boulogne 85170
FR

00-0C-35 (hex) KaVo Dental GmbH & Co. KG
000C35 (base 16) KaVo Dental GmbH & Co. KG
Bismarkring 39
Biberach/Riss
Baden-Württemberg 88400
DE

00-0C-37 (hex) Geomation, Inc.
000C37 (base 16) Geomation, Inc.
25188 Genesee Trail Road
Golden CO 80401
US

00-0C-40 (hex) Altech Controls
000C40 (base 16) Altech Controls
1545 Industial Drive
Missouri City Texas 77489
US

00-0C-3E (hex) Crest Audio
000C3E (base 16) Crest Audio
16-00 Pollitt Drive
Fair Lawn NJ 07410
US

00-0C-56 (hex) Megatel Computer (1986) Corp.
000C56 (base 16) Megatel Computer (1986) Corp.
586 Main Street
Glen Williams Ontario L7G 3T6
CA

00-0C-57 (hex) MACKIE Engineering Services Belgium BVBA
000C57 (base 16) MACKIE Engineering Services Belgium BVBA
Industriepark Noord 10
Sint Niklaas B-9100
BE

00-0C-54 (hex) Pedestal Networks, Inc
000C54 (base 16) Pedestal Networks, Inc
6503 Dumbarton Circle
Fremont CA 94555
US

00-0C-4A (hex) Cygnus Microsystems (P) Limited
000C4A (base 16) Cygnus
Microsystems (P) Limited
93, Phase II,
Hyderabad Andhra Pradesh 500051
IN

00-0B-FC (hex) Cisco Systems, Inc
000BFC (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0B-E9 (hex) Actel Corporation
000BE9 (base 16) Actel Corporation
200 Valley Road
Mt. Arlington NJ 07856
US

00-0B-E3 (hex) Key Stream Co., Ltd.
000BE3 (base 16) Key Stream Co., Ltd.
No. 2 Nagaoka Bldg. 4F, 2-8-5 Hatchobor
Chuo-ku Tokyo 104-0032
JP

00-0B-E8 (hex) AOIP
000BE8 (base 16) AOIP
6 rue Maryse BASTIE
COURCOURONNES Idf 91080
FR

00-0B-DC (hex) AKCP
000BDC (base 16) AKCP
67/285 Muangake Village #8
Amphur Muang Patomthanee 12000
TH

00-0B-D8 (hex) Industrial Scientific Corp.
000BD8 (base 16) Industrial Scientific Corp.
1001 Oakdale Road
Oakdale PA 15071
US

00-0B-D7 (hex) DORMA Time + Access GmbH
000BD7 (base 16) DORMA Time + Access GmbH
Mainzer
Straße 36-52
Bonn Nordrheinwestfalen 53179

DE

00-0B-95 (hex) eBet Gaming Systems Pty Ltd
000B95 (base 16) eBet Gaming Systems Pty Ltd
Suite D, 255 Rawson Street
Auburn NSW 2144
AU

00-0B-98 (hex) NiceTechVision
000B98 (base 16) NiceTechVision
IntelZone 703
YongIn Gugal-ri Ki Heung KyoungKiDo 354-2
KR

00-0B-9E (hex) Yasing Technology Corp.
000B9E (base 16) Yasing Technology Corp.
No. 50, Ta Hsueh Road, HsinChu, Taiwan
HsinChu 300
TW

00-0B-88 (hex) Vidisco ltd.
000B88 (base 16) Vidisco ltd.
17 Yechiel Dresner
Petach-Tikva 49277
IL

00-0B-8A (hex) MITEQ Inc.
000B8A (base 16) MITEQ Inc.
100 Davids Drive
Hauppauge NY 11788-2034
US

00-0B-8C (hex) Flextronics
000B8C (base 16) Flextronics
Migdal HaEmek
23108 Hataasia 1
IL

00-0B-90 (hex) ADVA Optical Networking Ltd.
000B90 (base 16) ADVA Optical Networking Ltd.
ADVAntage House
York
YO30 4RY
GB

00-0B-C0 (hex) China IWNComm Co., Ltd.
000BC0 (base 16) China IWNComm Co., Ltd.
4F.C Xietong Building,No.12 Gaoxin 2nd r

Xi'an shaanxi 710075
CN

00-0B-B0 (hex) Sysnet Telematica srl
000BB0 (base 16) Sysnet Telematica srl
Viale Berbera, 49
Milan 20162
IT

00-0B-B4 (hex) RDC Semiconductor Inc.,
000BB4 (base 16) RDC Semiconductor Inc.,
6F-1 , No.2-1, Lihsin Rd, Science-Based
Hsin Chu 300
TW

00-0B-AC (hex) 3Com Ltd
000BAC (base 16) 3Com Ltd
Peoplebuilding 2
Hemel Hempstead Herts HP2 4NW
GB

00-0B-D3 (hex) cd3o
000BD3 (base 16) cd3o
402 W Broadway
San Deigo CA 92101
US

00-0B-D5 (hex) Nvergence, Inc.
000BD5 (base 16) Nvergence, Inc.
Jeil Bldg. 4th, Samsung-dong 168-26, Kan
Seoul 135-090
KR

00-0B-D1 (hex) Aeronix, Inc.
000BD1 (base 16) Aeronix, Inc.
1775 W. Hibiscus Blvd,
Melbourne FL 32901
US

00-0B-D2
(hex) Remopro Technology Inc.
000BD2 (base 16) Remopro Technology Inc.
No. 443, Huannan RD.,
Pingjen City Taoyuan 324
TW

00-0B-C7 (hex) ICET S.p.A.
000BC7 (base 16) ICET S.p.A.

Via Quarto Negroni, 63
Cecchina di Ariccia Roma 00040
IT

00-0B-B8 (hex) Kihoku Electronic Co.
000BB8 (base 16) Kihoku Electronic Co.
Marukatubiru 3F 4-9-6
Osakashi Osaka-hu 556-0005
JP

00-0B-75 (hex) Iosoft Ltd.
000B75 (base 16) Iosoft Ltd.
5 Woodlark Road
Cambridge Cambs. CB3 0HT
GB

00-0B-70 (hex) Load Technology, Inc.
000B70 (base 16) Load Technology, Inc.
4225 Production Court
Las Vegas NV 89115
US

00-0B-6F (hex) Media Streaming Networks Inc
000B6F (base 16) Media Streaming Networks Inc
1905 Anam Tower, 702-10, Yeoksam dong, K
Seoul 135-080
KR

00-0B-79 (hex) X-COM, Inc.
000B79 (base 16) X-COM, Inc.
8809 Sudley Road
Manassas VA 20110
US

00-0B-87
(hex) American Reliance Inc.
000B87 (base 16) American Reliance Inc.
11801 Goldring Rd
Arcadia CA 91006
US

00-0B-63 (hex) Kaleidescape
000B63 (base 16) Kaleidescape
One First Street, Suite Sixteen
Los Altos CA 94022
US

00-0B-68 (hex) Addvalue Communications Pte Ltd

000B68 (base 16) Addvalue Communications Pte Ltd
28,TAI SENG STREET #06-02
Singapore 534106
SG

00-0B-58 (hex) Astronautics C.A LTD
000B58 (base 16) Astronautics C.A LTD
23 hayarkon street
Bnei Brak 51261
IL

00-0B-9F (hex) Neue ELSA GmbH
000B9F (base 16) Neue ELSA GmbH
Sonnenweg 11
Aachen 52070
DE

00-0B-0D (hex) Air2U, Inc.
000B0D (base 16) Air2U, Inc.
No. 5-1 Innovation Rd 1, Science-based P
Hsin-Chu Taiwan 300
TW

00-0B-0B (hex) Corrent Corporation
000B0B (base 16) Corrent Corporation
1711 W. Greentree Dr.
Tempe AZ 85284-2717
US

00-0B-08 (hex) Pillar Data Systems
000B08
(base 16) Pillar Data Systems
1371 McCarthy Blvd.
Milpitas CA 95035
US

00-0A-FA (hex) Traverse Technologies Australia
000AFA (base 16) Traverse Technologies Australia
Unit 13, 240 Sydney Rd
Coburg Victoria 3058
AU

00-0A-FC (hex) Core Tec Communications, LLC
000AFC (base 16) Core Tec Communications, LLC
49 Leavenworth Street
Waterbury CT 06702
US

00-0B-4B (hex) VISIOWAVE SA
000B4B (base 16) VISIOWAVE SA
Route de la Pierre 22
ECUBLENS VAUD CH-1024
CH

00-0B-36 (hex) Productivity Systems, Inc.
000B36 (base 16) Productivity Systems, Inc.
1711 Analog Drive
Richardson TX 75081-1944
US

00-0B-35 (hex) Quad Bit System co., Ltd.
000B35 (base 16) Quad Bit System co., Ltd.
402 Gayang Technotown
Seoul Kangseogu 157-810
KR

00-0B-3F (hex) Anthology Solutions Inc.
000B3F (base 16) Anthology Solutions Inc.
1722 Ringwood Ave.
San Jose CA 95131
US

00-0A-E1
(hex) EG Technology
000AE1 (base 16) EG Technology
250 15th Street
Atlanta GA 30318
US

00-0A-DF (hex) Gennum Corporation
000ADF (base 16) Gennum Corporation
P.O Box 489
Burlington Ontario L7R 3Y3
CA

00-0A-DA (hex) Vindicator Technologies
000ADA (base 16) Vindicator Technologies
5307 Industrial Oaks Blvd.
Austin Texas 78735
US

00-0A-C9 (hex) Zambeel Inc
000AC9 (base 16) Zambeel Inc
45700 Northport Loop East
Fremont CA 94538
US

00-0B-21 (hex) G-Star Communications Inc.
000B21 (base 16) G-Star Communications Inc.
5F, 69-10, Sec. 2, Chung Cheng East Road
Taipei Hsien 251
TW

00-0B-25 (hex) Aeluros
000B25 (base 16) Aeluros
201 San Antonio Circle #172
Mountain View CA 94040
US

00-0B-1A (hex) Industrial Defender, Inc.
000B1A (base 16) Industrial Defender, Inc.
16 Chestnut Street
Foxborough MA 02035
US

00-0B-15 (hex) Platypus
Technology
000B15 (base 16) Platypus Technology
4/1 Atchison St
St Leonards NSW 2065
AU

00-0B-18 (hex) Private
000B18 (base 16) Private

00-0B-55 (hex) ADInstruments
000B55 (base 16) ADInstruments
P. O. Box 587
Dunedin Otago 9001
NZ

00-0B-54 (hex) BiTMICRO Networks, Inc.
000B54 (base 16) BiTMICRO Networks, Inc.
47929 Fremont Blvd
Fremont CA 94538
US

00-0A-EC (hex) Koatsu Gas Kogyo Co., Ltd.
000AEC (base 16) Koatsu Gas Kogyo Co., Ltd.
1-5, Doyama-cho, Kita-ku, Osaka
Osaka 530-8411
JP

00-0A-E7 (hex) ELIOP S.A.

000AE7 (base 16) ELIOP S.A.
Avenida de Manoteras, 30
Madrid E-28050
ES

00-0A-E8 (hex) Cathay Roxus Information Technology Co. LTD
000AE8 (base 16) Cathay Roxus Information Technology Co. LTD
Fuhua mansion building A/B 4F
Beijing 100027
CN

00-0A-DD (hex) Allworx Corp.
000ADD (base 16) Allworx Corp.
245 East Main Street
East
Rochester NY 14604
US

00-0B-43 (hex) Microscan Systems, Inc.
000B43 (base 16) Microscan Systems, Inc.
700 SW 39th St
Renton WA 98057
US

00-0B-45 (hex) Cisco Systems, Inc
000B45 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0B-4C (hex) Clarion (M) Sdn Bhd
000B4C (base 16) Clarion (M) Sdn Bhd
Phase 3
Bayan Lepas Penang 11900
MY

00-0B-3C (hex) Cygnal Integrated Products, Inc.
000B3C (base 16) Cygnal Integrated Products, Inc.
4301 Westbank Drive
Austin TX 78746
US

00-0B-27 (hex) Scion Corporation
000B27 (base 16) Scion Corporation
82 Worman's Mill Court
Frederick MD 21701
US

00-0A-F1 (hex) Clarity Design, Inc.
000AF1 (base 16) Clarity Design, Inc.
13029 Danielson Street
Poway CA 92064-8810
US

00-0A-F3 (hex) Cisco Systems, Inc
000AF3 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose
CA 94568
US

00-0A-C0 (hex) Fuyoh Video Industry CO., LTD.
000AC0 (base 16) Fuyoh Video Industry CO., LTD.
7-25 Higashi Kibogaoka
Yokohama-shi Kanagawa-ken 246-0008
JP

00-0A-AE (hex) Rosemount Process Analytical
000AAE (base 16) Rosemount Process Analytical
6573A Cochran Rd.
Solon Ohio 44139-3922
US

00-0A-B3 (hex) Fa. GIRA
000AB3 (base 16) Fa. GIRA
Dahlienstraße
Radevormwald Nordrhein-Westfalen 42477
DE

00-0A-BA (hex) Arcon Technology Limited
000ABA (base 16) Arcon Technology Limited
Rm. 3711-12, 37/F., Cable TV Tower ,
Hong Kong
CN

00-0A-AF (hex) Pipal Systems
000AAF (base 16) Pipal Systems
2903 Bunker Hill Lane
Santa Clara CA 95054
US

00-0A-B2 (hex) Fresnel Wireless Systems
000AB2 (base 16) Fresnel Wireless Systems
1333 Gateway Drive
Melbourne FL 32901
US

00-0A-9F (hex) Pannaway Technologies, Inc.
000A9F (base 16) Pannaway Technologies,
Inc.
215 Commerce Way
Portsmouth NH 03801
US

00-0A-8F (hex) Aska International Inc.
000A8F (base 16) Aska International Inc.
306 Riverseven
Kochi 780-8088
JP

00-0A-A0 (hex) Cedar Point Communications
000AA0 (base 16) Cedar Point Communications
16 Route 111, Bldg 3
Derry NH 03038
US

00-0A-8E (hex) Invacom Ltd
000A8E (base 16) Invacom Ltd
Business and Technology Centre
Stevenage Hertfordshire SG1 2DX
GB

00-0A-99 (hex) Calamp Wireless Networks Inc
000A99 (base 16) Calamp Wireless Networks Inc
101-5540 Ferrier Street
Town of Mount-Royal Quebec H4P 1M2
CA

00-0A-5D (hex) FingerTec Worldwide Sdn Bhd
000A5D (base 16) FingerTec Worldwide Sdn Bhd
No 6, 8 & 10
Bandar Kinrara 47100 PUchong Selangor
MY

00-0A-5C (hex) Carel s.p.a.
000A5C (base 16) Carel s.p.a.
Via dell' Industria, 11
Brugine Padova 35020
IT

00-0A-5A (hex) GreenNET Technologies
Co.,Ltd.
000A5A (base 16) GreenNET Technologies Co.,Ltd.
No.10, Qiongyu Road,Sciences-based Indus

Shenzhen Guangdong 518057
CN

00-0A-56 (hex) HITACHI Maxell Ltd.
000A56 (base 16) HITACHI Maxell Ltd.
6-20-1 Kinunodai
Yawara-mura, Tsukuba-gun IBARAKI 300-2496
JP

00-0A-51 (hex) GyroSignal Technology Co., Ltd.
000A51 (base 16) GyroSignal Technology Co., Ltd.
5F,No. 77,Lide St.
Zhonghe City Taipei County 23556
TW

00-0A-53 (hex) Intronics, Incorporated
000A53 (base 16) Intronics, Incorporated
2020 Lafayette Blvd.
Fredericksburg Virginia 22401
US

00-0A-76 (hex) Beida Jade Bird Huaguang Technology Co.,Ltd
000A76 (base 16) Beida Jade Bird Huaguang Technology Co.,Ltd
No.207 Chengfu Road, Haidian District
Beijing 100871
CN

00-0A-60 (hex) Autostar Technology Pte Ltd
000A60 (base 16) Autostar Technology Pte Ltd
Unit 04-10 TECHplace II
Singapore Singapore 569876
SG

00-0A-C1
(hex) Futuretel
000AC1 (base 16) Futuretel
21580 Stevens Creek Blvd, Suite 208
Cupertino CA 95014
US

00-0A-C3 (hex) eM Technics Co., Ltd.
000AC3 (base 16) eM Technics Co., Ltd.
7F., IT Venture Tower., 78,
Seoul 138-803
KR

00-0A-C4 (hex) Daewoo Teletech Co., Ltd
000AC4 (base 16) Daewoo Teletech Co., Ltd

265-3, Seohyeon, Bundang
Seongnam Gyeonggi
KR

00-0A-BE (hex) OPNET Technologies CO., LTD.
000ABE (base 16) OPNET Technologies CO., LTD.
3F, NO.5, Industry E. Rd. IX, Science-Ba
Hsinchu 300
TW

00-0A-B6 (hex) COMPUNETIX, INC
000AB6 (base 16) COMPUNETIX, INC
2420 MOSSIDE BLVD.
MONROEVILLE PA 15146
US

00-0A-AA (hex) AltiGen Communications Inc.
000AAA (base 16) AltiGen Communications Inc.
47427 Fremont Blvd.
Fremont CA 94538
US

00-0A-8D (hex) EUROTHERM LIMITED
000A8D (base 16) EUROTHERM LIMITED
FARADAY CLOSE
WORTHING WEST SUSSEX
BN13 3PL
GB

00-0A-4A (hex) Targa Systems Ltd.
000A4A (base 16) Targa Systems Ltd.
1905 Grandtech Centre,
Shatin N.T.
HK

00-0A-39 (hex) LoPA Information Technology
000A39 (base 16) LoPA Information Technology
710-9, Dae Lim 3-Dong
Young Deung po-gu Seoul, Korea 150-814
KR

00-0A-37 (hex) Procera Networks, Inc.
000A37 (base 16) Procera Networks, Inc.
1299 Orleans Drive
Sunnyvale CA 94089
US

00-0A-93 (hex) W2 Networks, Inc.

000A93 (base 16) W2 Networks, Inc.
5808 NW Lac Leman Drive
Issaquah Washington 98027
US

00-0A-89 (hex) Creval Systems, Inc.
000A89 (base 16) Creval Systems, Inc.
2F,24-4,Sanwolgok-Dong,Sungbuk-Ku,Seoul,
Seoul 136-120
KR

00-0A-80 (hex) Telkonet Inc.
000A80 (base 16) Telkonet Inc.
20374 Seneca Meadows Pkwy
Germantown MD 21401
US

00-0A-79 (hex) corega K.K
000A79 (base 16) corega K.K
1-19-20, Shinyokohama
Yokohama-city
Kanagawa-ken 222-0033
JP

00-09-C7 (hex) Movistec
0009C7 (base 16) Movistec
110-5 Maryoung -ri Seosu-myun
Kunsan Chonbuk 573-940
KR

00-09-C9 (hex) BlueWINC Co., Ltd.
0009C9 (base 16) BlueWINC Co., Ltd.
401 Korea Design Center
Seongnam City Kyonggio 463-828
KR

00-09-D4 (hex) Transtech Networks
0009D4 (base 16) Transtech Networks
100 Wood Avenue
Iselin NJ 08830
US

00-09-CB (hex) HBrain
0009CB (base 16) HBrain
#705 Kwanglim Bldg 179 KumiDong
Seongnam GyeonggiDo 463-810
KR

00-09-C5 (hex) KINGENE Technology Corporation
0009C5 (base 16) KINGENE Technology Corporation
7F, No. 144, Minchuan E. Rd. Sec. 3
Taipei 105
TW

00-09-CD (hex) HUDSON SOFT CO.,LTD.
0009CD (base 16) HUDSON SOFT CO.,LTD.
C62,Geijutsu-no-mori
Sapporo Hokkaido 005-0864
JP

00-0A-2C (hex) Active Tchnology Corporation
000A2C (base 16) Active Tchnology Corporation
16-23,
Shibaura 2-Chome,
Tokyo Tokyo 108-0023
JP

00-0A-2A (hex) QSI Systems Inc.
000A2A (base 16) QSI Systems Inc.
7 Raymond Avenue
Salem NH 03079
US

00-0A-1F (hex) ART WARE Telecommunication Co., Ltd.
000A1F (base 16) ART WARE Telecommunication Co., Ltd.
806 Ace Techno Tower #1, 197-17
Seoul 152-050
KR

00-09-F1 (hex) Yamaki Electric Corporation
0009F1 (base 16) Yamaki Electric Corporation
3-7-22 Shimomeguro
Meguro-ku Tokyo 153-0064
JP

00-09-F4 (hex) Alcon Laboratories, Inc.
0009F4 (base 16) Alcon Laboratories, Inc.
6201 South Freeway
Fort Worth Tx 76134
US

00-09-F5 (hex) Emerson Network Power Co.,Ltd
0009F5 (base 16) Emerson Network Power Co.,Ltd
1/F,3/F Electric Building Huawei Base,Ba
ShenZhen GuangDong 518029
CN

00-09-EA (hex) YEM Inc.
0009EA (base 16) YEM Inc.
1-3-33
Atsugi-shi Kanagawa 243-0021
JP

00-09-C0 (hex) 6WIND
0009C0
(base 16) 6WIND
1, place Charles de Gaulle
Montigny-le-Bretonneux 78180
FR

00-09-BF (hex) Nintendo Co., Ltd.
0009BF (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

00-0A-15 (hex) Silicon Data, Inc
000A15 (base 16) Silicon Data, Inc
4699 Old Ironsides Dr., #150
Santa Clara CA 95054
US

00-0A-1B (hex) Stream Labs
000A1B (base 16) Stream Labs
Leninskie gori 1, bild 77
Moskow 119992
RU

00-0A-1A (hex) Imerge Ltd
000A1A (base 16) Imerge Ltd
Unit 6, Bar Hill Business Park
Bar Hill Cambridge CB3 8SL
GB

00-0A-0A (hex) SUNIX Co., Ltd.
000A0A (base 16) SUNIX Co., Ltd.
3Fl., No. 76, Baugau Rd.,
Shindian Taipei 231
TW

00-0A-05 (hex) Widax Corp.
000A05 (base 16) Widax Corp.
269 Stevens Street
Hyannis MA 02668

US

00-0A-04 (hex) 3Com Ltd
000A04 (base 16) 3Com Ltd
Peoplebuilding 2
Hemel Hempstead
Herts HP2 4NW
GB

00-09-E3 (hex) Angel Iglesias S.A.
0009E3 (base 16) Angel Iglesias S.A.
Polígono 27 Martutene
San Sebastián Guipúzcoa 20014
ES

00-09-D6 (hex) KNC One GmbH
0009D6 (base 16) KNC One GmbH
Hohe Welle 10 B
Evessen 38173
DE

00-0A-34 (hex) Identicard Systems Incorporated
000A34 (base 16) Identicard Systems Incorporated
40 Citation Lane
Lancaster Pennsylvania 17606
US

00-0A-30 (hex) Visteon Corporation
000A30 (base 16) Visteon Corporation
One Village Center Drive
Van Buren Twp MI 48111
US

00-0A-2F (hex) Artnix Inc.
000A2F (base 16) Artnix Inc.
Chungjin B/D, 475-22 Bangbae, Seocho
Seoul 137-819
KR

00-09-2F (hex) Akom Technology Corporation
00092F (base 16) Akom Technology Corporation
5F, No. 323, Yang-Guang St.
Taipei 114
TW

00-09-BA (hex) MAKU Informationstechik GmbH
0009BA (base 16) MAKU Informationstechik GmbH
Gewerbehofstraße

Essen NRW 45145
DE

00-09-B4 (hex) KISAN TELECOM CO., LTD.
0009B4 (base 16) KISAN TELECOM CO., LTD.
9F, Teawon Bldg., 65 Bangyi-Dong
Songpa-Gu Seoul 138-828
KR

00-09-AE (hex) OKANO ELECTRIC CO.,LTD
0009AE (base 16) OKANO ELECTRIC CO.,LTD
2-8-18 KANAYAMA-CHO
HIGASHIKURUME TOKYO 203-0003
JP

00-09-5A (hex) RACEWOOD TECHNOLOGY
00095A (base 16) RACEWOOD TECHNOLOGY
5F-2,NO.6,CHUNG-HSING RD.,SEC.1,WU-GU
TAIPEI 248
TW

00-09-51 (hex) Apogee Imaging Systems
000951 (base 16) Apogee Imaging Systems
151 Sunrise Avenue
Roseville CA 95661
US

00-09-71 (hex) Time Management, Inc.
000971 (base 16) Time Management, Inc.
11 Lake Gatlin Road
Orlando Florida 32806
US

00-09-74 (hex) Innopia Technologies, Inc.
000974 (base 16) Innopia Technologies, Inc.
5F., Institute of Technology
Seoul 133-791
KR

00-09-4E (hex) BARTECH SYSTEMS INTERNATIONAL,
INC
00094E (base 16) BARTECH SYSTEMS INTERNATIONAL, INC
251 Najoles Rd Suite A
Millersville Maryland 21108
US

00-09-47 (hex) Aztek, Inc.

000947 (base 16) Aztek, Inc.
23 Spectrum Pointe #209
Lake Forest California 92630
US

00-09-3D (hex) Newisys,Inc.
00093D (base 16) Newisys,Inc.
6200 Bridgepoint Parkway
Austin TX 78730
US

00-09-8B (hex) Entropic Communications, Inc.
00098B (base 16) Entropic Communications, Inc.
9276 Scranton Rd #200
San Diego CA 92121
US

00-09-7E (hex) IMI TECHNOLOGY CO., LTD
00097E (base 16) IMI TECHNOLOGY CO., LTD
2nd floor, Eun Seok Building, 729-1
Gangnam-gu Seoul 135-080
KR

00-09-67 (hex) Tachyon, Inc
000967 (base 16) Tachyon, Inc
9339 Carroll Park Drive
San Diego CA 92121
US

00-09-6A (hex) Cloverleaf Communications Inc.
00096A (base 16) Cloverleaf Communications Inc.
2 Willow St.
Southborough MA 01745-1027
US

00-09-91
(hex) Intelligent Platforms, LLC.
000991 (base 16) Intelligent Platforms, LLC.
2500 Austin Drive
Charlottesville VA 22911
US

00-09-96 (hex) RDI
000996 (base 16) RDI
20406 Earl St.
Torrance CA 90503
US

00-09-38 (hex) Allot Communications
000938 (base 16) Allot Communications
Hanagar 22 st'
Hod-Hasharon 45800
IL

00-09-0C (hex) Mayekawa Mfg. Co. Ltd.
00090C (base 16) Mayekawa Mfg. Co. Ltd.
16825 IH 35 North
Selma Texas 78154
US

00-09-0D (hex) LEADER ELECTRONICS CORP.
00090D (base 16) LEADER ELECTRONICS CORP.
2-6-33, TSUNASHIMA-HIGASHI
YOKOHAMA KANAGAWA 223-8505
JP

00-08-FE (hex) UNIK C&C Co.,Ltd.
0008FE (base 16) UNIK C&C Co.,Ltd.
706-13 UNIK BLDG 17F
SEOUL 135-080
KR

00-08-FF (hex) Trilogy Communications Ltd
0008FF (base 16) Trilogy Communications Ltd
26 Focus Way
Andover Hampshire SP10 5NY
GB

00-09-04 (hex) MONDIAL
electronic
000904 (base 16) MONDIAL electronic
Eggelsberg 73
Eggelsberg Oberoesterreich 5142
AT

00-08-A8 (hex) Systec Co., Ltd.
0008A8 (base 16) Systec Co., Ltd.
19 Nochidori, Nawa
Tokai Aichi 476-0002
JP

00-08-A4 (hex) Cisco Systems, Inc
0008A4 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-09-1F (hex) A&D Co., Ltd.
00091F (base 16) A&D Co., Ltd.
1-243 Asahi
Kitamoto-shi Saitama 364-8585
JP

00-09-24 (hex) Telebau GmbH
000924 (base 16) Telebau GmbH
Am Kraehenberg 1
Waldeck-Sachsenhausen Germany 34513
DE

00-09-21 (hex) Planmeca Oy
000921 (base 16) Planmeca Oy
Asentajankatu 6
HELSINKI 00810 HELSIN
FI

00-09-19 (hex) MDS Gateways
000919 (base 16) MDS Gateways
Clonshaugh Industrial Estate
Dublin 17
IE

00-08-BF (hex) Aptus Elektronik AB
0008BF (base 16) Aptus Elektronik AB
FO Petersons G
6

SE

00-08-B8 (hex) E.F. Johnson
0008B8 (base 16) E.F. Johnson
299 Johnson Ave.
Waseca MN 56093
US

00-08-BB (hex) NetExcell
0008BB (base 16) NetExcell
15375 Barranca Pkwy, #E-106
Irvine CA 92679
US

00-08-BE (hex) XENPAK MSA Group
0008BE (base 16) XENPAK MSA Group
Care of: Agilent Technologies
Ipswich Suffolk Ip1 5PB

GB

00-08-C1 (hex) Avistar Communications Corporation
0008C1 (base 16) Avistar Communications Corporation
15851 Dallas Pkwy.
Addison TX 75001
US

00-08-C6 (hex) Philips Consumer Communications
0008C6 (base 16) Philips Consumer Communications
Route d'Angers
Cedex 9
FR

00-09-18 (hex) SAMSUNG TECHWIN CO.,LTD
000918 (base 16) SAMSUNG TECHWIN CO.,LTD
42
CHANGWON KYONGNAM 641-716
KR

00-09-10 (hex) Simple Access Inc.
000910 (base 16) Simple Access Inc.
600 McCaffrey Street
St-Laurent Quebec H4T1N1
CA

00-09-14
(hex) COMPUTROLS INC.
000914 (base 16) COMPUTROLS INC.
221 Bark Drive
Harvey LA 70058
US

00-08-EF (hex) DIBAL,S.A.
0008EF (base 16) DIBAL,S.A.
Astintze Kalea 24
Derio Vizcaya 48160
ES

00-08-F0 (hex) Next Generation Systems, Inc.
0008F0 (base 16) Next Generation Systems, Inc.
PO BOX 31205
Dayton OH 45437-0205
US

00-08-E9 (hex) NextGig
0008E9 (base 16) NextGig
9820-B Towne Centre Drive

San Diego CA 92121
US

00-08-E7 (hex) SHI ControlSystems,Ltd.
0008E7 (base 16) SHI ControlSystems,Ltd.
19,Natusima
Yokosuka Kanagawa 237-8555
JP

00-08-D7 (hex) HOW CORPORATION
0008D7 (base 16) HOW CORPORATION
1-11-17 Chiyoda
Sagamihara Kanagawa 229-0037
JP

00-08-FC (hex) Gigaphoton Inc.
0008FC (base 16) Gigaphoton Inc.
YOKOKURA SHINDEN400
OYAMA TOTIGI 323-8558
JP

00-08-07 (hex) Access Devices Limited
000807 (base 16) Access Devices Limited
Sixth
Floor, 58 Oxbridge Road

GB

00-07-FC (hex) Adept Systems Inc.
0007FC (base 16) Adept Systems Inc.
2100 Boca Rio Rd.
Boca Raton FL 33433
US

00-07-E8 (hex) EdgeWave
0007E8 (base 16) EdgeWave
15333 Avenue of Science
San Diego CA 92128
US

00-07-EB (hex) Cisco Systems, Inc
0007EB (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-08-65 (hex) JASCOM CO., LTD
000865 (base 16) JASCOM CO., LTD

JUAN INDUSTRIAL COMPLEX 330, 17-1,
JUAN-DONG NAM-GU INCHEON 402-200
KR

00-08-64 (hex) Fasy S.p.A.
000864 (base 16) Fasy S.p.A.
Via Tognasca 7
Gallarate Varese 21013
US

00-08-60 (hex) LodgeNet Entertainment Corp.
000860 (base 16) LodgeNet Entertainment Corp.
3900 W. Innovation Street
Sioux Falls SD 57107
US

00-08-51 (hex) Canadian Bank Note Company, Ltd.
000851 (base 16) Canadian Bank Note Company, Ltd.
18 Auriga
Dr.
K2E 7T9
CA

00-08-59 (hex) ShenZhen Unitone Electronics Co., Ltd.
000859 (base 16) ShenZhen Unitone Electronics Co., Ltd.
2 Southern Floor 702 Building

CN

00-08-4E (hex) DivergeNet, Inc.
00084E (base 16) DivergeNet, Inc.
2142 Bering Dr.
San Jose CA 95131
US

00-08-19 (hex) Banksys
000819 (base 16) Banksys
Haachtsesteenweg 1442

BE

00-08-1A (hex) Sanrad Intelligence Storage Communications (2000) Ltd.
00081A (base 16) Sanrad Intelligence Storage Communications (2000) Ltd.
32 Habarzel St., Entrace B

IL

00-08-10 (hex) Key Technology, Inc.

000810 (base 16) Key Technology, Inc.
150 Avery St.
Walla Walla WA 99362
US

00-08-97 (hex) Quake Technologies
000897 (base 16) Quake Technologies
2880 Zanker Road
San Jose CA 95134
US

00-08-90 (hex) AVILINKS SA
000890 (base 16) AVILINKS SA
Etic Center - CS 77 729
Cesson Sevigne Cedex
35577
FR

00-08-8D (hex) Sigma-Links Inc.
00088D (base 16) Sigma-Links Inc.
550-1 Higashiasakawa-cho,
Tokyo 193-8550
JP

00-08-25 (hex) Acme Packet
000825 (base 16) Acme Packet
71 Third Avenue
Woburn MA 01803
US

00-08-1F (hex) Pou Yuen Tech Corp. Ltd.
00081F (base 16) Pou Yuen Tech Corp. Ltd.
16F, No. 107, Sect. 3, Taichung Keng Rd.

TW

00-08-84 (hex) Index Braille AB
000884 (base 16) Index Braille AB
Box 155

SE

08-00-6B (hex) ACCEL TECHNOLOGIES INC.
08006B (base 16) ACCEL TECHNOLOGIES INC.
7358 TRADE STREET
SAN DIEGO CA 92121
US

00-07-F5 (hex) Bridgeco Co AG
0007F5 (base 16) Bridgeco Co AG
Ringstr. 14

CH

00-07-EC (hex) Cisco Systems, Inc
0007EC (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-07-DC (hex) Atek Co, Ltd.
0007DC (base 16) Atek Co, Ltd.
B dong #205 hanyang venture
park
Seoul
KR

00-07-C6 (hex) VDS Vosskuhler GmbH
0007C6 (base 16) VDS Vosskuhler GmbH
Weibe Breite 7

DE

00-07-CC (hex) Kaba Benzing GmbH
0007CC (base 16) Kaba Benzing GmbH
Albertistrabe 3

DE

00-07-C0 (hex) NetZerver Inc.
0007C0 (base 16) NetZerver Inc.
26 West Lone Cactus Drive
Phoenix AZ 85027
US

00-04-7E (hex) Siqura B.V.
00047E (base 16) Siqura B.V.
Zuidelijk Halfrond 4

NL

00-07-BC (hex) Identix Inc.
0007BC (base 16) Identix Inc.
6591 Sierra Lane
Dublin CA 94568
US

00-07-56 (hex) Juyoung Telecom
000756 (base 16) Juyoung Telecom
#201, Dunsan Building
Taejon 302-846
KR

00-07-5A (hex) Air Products and Chemicals, Inc.
00075A (base 16) Air Products and Chemicals, Inc.
7201 Hamilton Blvd.
Allentown PA 18195-1501
US

00-07-48 (hex) The Imaging Source Europe
000748 (base 16) The Imaging Source Europe
Sommerstraße
34-36

DE

00-07-46 (hex) TURCK, Inc.
000746 (base 16) TURCK, Inc.
3000 Campus Drive
Plymouth MN 55441
US

00-07-41 (hex) Sierra Automated Systems
000741 (base 16) Sierra Automated Systems
2821 Burton Ave.
Burbank CA 91504
US

00-07-9E (hex) Ilinx Co., Ltd.
00079E (base 16) Ilinx Co., Ltd.
4th Floor Korea Telecom, Yangjae Branch
Seoul
KR

00-07-A0 (hex) e-Watch Inc.
0007A0 (base 16) e-Watch Inc.
7800 IH 10 West
San Antonio TX 78229
US

00-07-94 (hex) Simple Devices, Inc.
000794 (base 16) Simple Devices, Inc.
111 Anza Blvd., Suite 120
Burlingame CA 94010

US

00-07-97 (hex) Netpower Co., Ltd.
000797 (base 16) Netpower Co., Ltd.
Baekam Bldg., 6F
Seoul 138-162
KR

00-07-8C (hex) Elektronikspecialisten i Borlange AB
00078C (base 16) Elektronikspecialisten i Borlange AB
Box 50
SE 780
SE

00-07-81 (hex) Itron
Inc.
000781 (base 16) Itron Inc.
2818 N. Sullivan Road
Spokane WA 99216
US

00-07-88 (hex) Clipcomm, Inc.
000788 (base 16) Clipcomm, Inc.
5th Fl, Ssangyang Bldg.
Seoul 151-827
KR

00-07-6B (hex) Stralfors AB
00076B (base 16) Stralfors AB
Langgatan 21

SE

00-07-68 (hex) Danfoss A/S
000768 (base 16) Danfoss A/S
E16-N12, DK-6430 Nordborg

00-07-5F (hex) VCS Video Communication Systems AG
00075F (base 16) VCS Video Communication Systems AG
Forchheimer Str. 4

DE

00-07-5C (hex) Eastman Kodak Company
00075C (base 16) Eastman Kodak Company
343 State Street

Rochester NY 146501245
US

00-07-45 (hex) Radlan Computer Communications Ltd.
000745 (base 16) Radlan Computer Communications Ltd.
Atidim Technology Park
Tel Aviv 61131
IL

00-07-3E (hex) China Great-Wall Computer Shenzhen Co., Ltd.
00073E (base 16) China Great-Wall
Computer Shenzhen Co., Ltd.
Research & Development Center, Kefa Road
Shenzhen 518057
CN

00-07-A9 (hex) Novasonics
0007A9 (base 16) Novasonics
1390 Willow Road
Menlo Park CA 94025
US

00-07-A1 (hex) VIASYS Healthcare GmbH
0007A1 (base 16) VIASYS Healthcare GmbH
Leibnizstraße 7
Hoechberg Bavaria 97204
DE

00-07-B8 (hex) Corvalent Corporation
0007B8 (base 16) Corvalent Corporation
1101 Arrow Point Dr #501
Cedar Park TX 78613
US

00-07-7B (hex) Millimetrix Broadband Networks
00077B (base 16) Millimetrix Broadband Networks
Kibutz Givat Hashelosha 48800

IL

00-07-69 (hex) Italiana Macchi SpA
000769 (base 16) Italiana Macchi SpA
Via Matteotti 1

IT

00-07-18 (hex) iCanTek Co., Ltd.
000718 (base 16) iCanTek Co., Ltd.

2nd Fl. DK Plaza II, 376-5,
Sungman-si, Kyonggi-do 463-805
KR

00-07-16 (hex) J & S Marine Ltd.
000716 (base 16) J &
S Marine Ltd.
Pottington Business Park
Devon EX31 1LY
GB

00-07-1A (hex) Finedigital Inc.
00071A (base 16) Finedigital Inc.
4th Fl. Bomi Bldg., 661 Deungchon 3 Dong
Seoul 157-033
KR

00-07-1E (hex) Tri-M Engineering / Nupak Dev. Corp.
00071E (base 16) Tri-M Engineering / Nupak Dev. Corp.
6-1301 Ketch Court
V3K 6X7
CA

00-07-17 (hex) Wieland Electric GmbH
000717 (base 16) Wieland Electric GmbH
Brennerstraße 10-14

DE

00-06-D9 (hex) IPM-Net S.p.A.
0006D9 (base 16) IPM-Net S.p.A.
Via Remo De Feo

IT

00-06-D3 (hex) Alpha Telecom, Inc. U.S.A.
0006D3 (base 16) Alpha Telecom, Inc. U.S.A.
1394 Borregor Ave.
Sunnyvale CA 94089
US

00-06-A4 (hex) INNOWELL Corp.
0006A4 (base 16) INNOWELL Corp.
#717 ChongGu Bluevill
463-825
KR

00-06-D6 (hex) Cisco Systems, Inc

0006D6 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose
CA 94568
US

00-06-47 (hex) Etrali S.A.
000647 (base 16) Etrali S.A.
221, Rue La Fontaine

FR

00-06-CB (hex) Jotron Electronics A/S
0006CB (base 16) Jotron Electronics A/S
Pob 54

NO

00-06-CD (hex) Leaf Imaging Ltd.
0006CD (base 16) Leaf Imaging Ltd.
7th Hatnufa st
Petach-Tikva 49002
IL

00-07-11 (hex) Acterna
000711 (base 16) Acterna
6620 Network Way
Indianapolis IN 46278
US

00-07-0A (hex) Unicom Automation Co., Ltd.
00070A (base 16) Unicom Automation Co., Ltd.
Silk Bldg 3-31-11
Tokyo 164-0012
JP

00-07-09 (hex) Westerstrand Urfabrik AB
000709 (base 16) Westerstrand Urfabrik AB
Box 133

SE

00-06-C7 (hex) RFNET Technologies Pte Ltd (S)
0006C7 (base 16) RFNET Technologies Pte Ltd (S)
Unit 233 Innovation Centre Blk 2
637722
SG

00-06-B9 (hex) A5TEK Corp.
0006B9 (base 16) A5TEK Corp.
1233 Alderwood Ave.
Sunnyvale
CA 94089
US

00-07-02 (hex) Varex Imaging
000702 (base 16) Varex Imaging
1678 South Pioneer Road
Salt Lake City UT 84104
US

00-07-05 (hex) Endress & Hauser GmbH & Co
000705 (base 16) Endress & Hauser GmbH & Co
Hauptstrabe 1 - Postfach 1261

DE

00-07-3B (hex) Tenovis GmbH & Co KG
00073B (base 16) Tenovis GmbH & Co KG
Kleyerstraße 94

DE

00-07-31 (hex) Ophir-Spiricon LLC
000731 (base 16) Ophir-Spiricon LLC
3050 N 300 W
North Logan UT 84341
US

00-07-2B (hex) Jung Myung Telecom Co., Ltd.
00072B (base 16) Jung Myung Telecom Co., Ltd.
5Fl Silla Technovil., 39-3 Dang-Dong

KR

00-06-FF (hex) Sheba Systems Co., Ltd.
0006FF (base 16) Sheba Systems Co., Ltd.
5th Fl. Hyundai Jad B/D
Seoul 134-030
KR

00-06-EB (hex) Global Data
0006EB (base 16) Global Data
2250 Obispo Ave #105
Signal Hill CA 90806
US

00-06-E3 (hex) Quantitative
Imaging Corporation
0006E3 (base 16) Quantitative Imaging Corporation
8081 Lougheed Highway

CA

00-06-E4 (hex) Citel Technologies Ltd.
0006E4 (base 16) Citel Technologies Ltd.
Wheatcroft Business Park
Nottigham NG12 4DG
GB

00-06-A1 (hex) Celsian Technologies, Inc.
0006A1 (base 16) Celsian Technologies, Inc.
3002 Dow Ave., Unit 138
Tustin CA 92780
US

00-06-63 (hex) Human Technology Co., Ltd.
000663 (base 16) Human Technology Co., Ltd.
3rd Fl, Hyungok Bldg.,
Kangnam-ku Seoul
KR

00-06-65 (hex) Sunny Giken, Inc.
000665 (base 16) Sunny Giken, Inc.
3-1-9 Nishidai Itami-shi
Hyogo-pref. 664-0858
JP

00-06-62 (hex) MBM Technology Ltd.
000662 (base 16) MBM Technology Ltd.
Victoria Rd.

GB

00-06-69 (hex) Datasound Laboratories Ltd
000669 (base 16) Datasound Laboratories Ltd
5 Business Park West, Avenue One
ENGLAND
GB

00-06-6E
(hex) Delta Electronics, Inc.
00066E (base 16) Delta Electronics, Inc.
11F, 266 Wen-Hwa 2nd Road,

TW

00-06-5A (hex) Strix Systems
00065A (base 16) Strix Systems
310 N. Westlake Blvd.
Westlake Village CA 91362
US

00-06-95 (hex) Ensure Technologies, Inc.
000695 (base 16) Ensure Technologies, Inc.
3526 West Liberty
Ann Arbor MI 48103
US

00-06-91 (hex) PT Inovacao
000691 (base 16) PT Inovacao
Rua Eng. Jose F. Pinto Basto

PT

00-06-92 (hex) Intruvert Networks, Inc.
000692 (base 16) Intruvert Networks, Inc.
Suite 102
San Jose CA 95131
US

00-06-1A (hex) Zetari Inc.
00061A (base 16) Zetari Inc.
411 Waverly Oaks Rd.
Waltham MA 02452-8401
US

00-06-1F (hex) Vision Components GmbH
00061F (base 16) Vision Components GmbH
Ottostraße 2

DE

00-06-1B (hex) Notebook Development Lab. Lenovo Japan Ltd.
00061B (base 16) Notebook
Development Lab. Lenovo Japan Ltd.
1623-14 Shimotsuruma
242-8502
JP

00-06-0F (hex) Narad Networks Inc
00060F (base 16) Narad Networks Inc

515 Groton Road
Westford MA 01886
US

00-06-10 (hex) Abeona Networks Inc
000610 (base 16) Abeona Networks Inc
46117 Landing Parkway
Fremont CA 94539
US

00-06-52 (hex) Cisco Systems, Inc
000652 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-06-56 (hex) Tactel AB
000656 (base 16) Tactel AB
Norra Vallgatan 64

SE

00-06-41 (hex) ITCN
000641 (base 16) ITCN
8571 Gander Creek Drive
Miamisburg OH 45342
US

00-06-48 (hex) Seedsware, Inc.
000648 (base 16) Seedsware, Inc.
3-7-16 Technostage,
Izumi, Osaka 594-1144
JP

00-06-AB (hex) W-Link Systems, Inc.
0006AB (base 16) W-Link Systems, Inc.
No. 20, Park Ave. II,
Hsinchu 300
TW

00-06-AC (hex) Intersoft
Co.
0006AC (base 16) Intersoft Co.
#1803 sun-kyoung Officetel
Seoul
KR

00-06-94 (hex) Mobillian Corporation

000694 (base 16) Mobillian Corporation
11031 Via Frontera
San Diego CA 92127
US

00-06-74 (hex) Spectrum Control, Inc.
000674 (base 16) Spectrum Control, Inc.
8061 Avonia Road
Fairview PA 16415
US

00-06-8B (hex) AirRunner Technologies, Inc.
00068B (base 16) AirRunner Technologies, Inc.
2401 Lupine Trail
South Lake Tahoe CA 96150
US

00-06-87 (hex) Omnitron Systems Technology, Inc.
000687 (base 16) Omnitron Systems Technology, Inc.
140 Technology
Irvine CA 92618
US

00-06-4C (hex) Invicta Networks, Inc.
00064C (base 16) Invicta Networks, Inc.
13873 Park Center Road
Herndon VA 20171
US

00-06-38 (hex) Sungjin C&C Co., Ltd.
000638 (base 16) Sungjin C&C Co., Ltd.
1543-6, Seocho-dong, Seocho-gu,
Seoul 137-073
KR

00-06-35 (hex) PacketAir
Networks, Inc.
000635 (base 16) PacketAir Networks, Inc.
11545 W. Bernardo Ct.
San Diego CA 92127
US

00-05-D5 (hex) Speedcom Wireless
0005D5 (base 16) Speedcom Wireless
7020 Professional Pkwy East
Sarasota FL 34240-8514
US

00-05-D2 (hex) DAP Technologies
0005D2 (base 16) DAP Technologies
955 Fernand Dufour,
G1M 3B2
CA

00-05-C5 (hex) Flaga HF
0005C5 (base 16) Flaga HF
Vesturhlid 7

IS

00-05-CA (hex) Hitron Technology, Inc.
0005CA (base 16) Hitron Technology, Inc.
HSINCHU SBIP SUBSIDIARY
Hsin-chu
TW

00-05-C0 (hex) Digital Network Alacarte Co., Ltd.
0005C0 (base 16) Digital Network Alacarte Co., Ltd.
A104, Seoul Business Incubator
Seoul 157-030,
KR

00-05-B8 (hex) Electronic Design Associates, Inc.
0005B8 (base 16) Electronic Design Associates, Inc.
331 Arcado Rd. NW
Lilburn GA 30047-2841
US

00-05-BA (hex) Area Netwoeks,
Inc.
0005BA (base 16) Area Netwoeks, Inc.
1148 Euclid Ave., Suite 400
Cleveland OH 4415
US

00-05-8B (hex) IPmental, Inc.
00058B (base 16) IPmental, Inc.
8F-9, No. 35, Hsin Tai Rd.

TW

00-05-7D (hex) Sun Communications, Inc.
00057D (base 16) Sun Communications, Inc.
Gloria Bldg 6th
Tokyo 162-082
JP

00-05-81 (hex) Snell
000581 (base 16) Snell
Southleigh Park House
Hampshire P09 2PE
GB

00-05-BF (hex) JustEzy Technology, Inc.
0005BF (base 16) JustEzy Technology, Inc.
5F, No. 324, Sec. 1, Junghua Rd.
Hsinchu
TW

00-05-AC (hex) Northern Digital, Inc.
0005AC (base 16) Northern Digital, Inc.
103 Randall Drive
Waterloo Ontario N2V 1C5
CA

00-05-AD (hex) Topspin Communications, Inc.
0005AD (base 16) Topspin Communications, Inc.
515 Ellis Street
Mountain View CA 94043
US

00-05-B1 (hex) ASB Technology BV
0005B1 (base 16) ASB
Technology BV
De Ronde 15A

NL

00-05-99 (hex) DRS Test and Energy Management or DRS-TEM
000599 (base 16) DRS Test and Energy Management or DRS-TEM
110 Wynn Drive
Huntsville AL 35805
US

00-05-9A (hex) Cisco Systems, Inc
00059A (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-06-11 (hex) Zeus Wireless, Inc.
000611 (base 16) Zeus Wireless, Inc.
8325 Guilford Road
Columbia MD 21046

US

00-05-EC (hex) Mosaic Systems Inc.
0005EC (base 16) Mosaic Systems Inc.
7 Campbell Park
Somerville MA 02144
US

00-06-02 (hex) Cirkitech Electronics Co.
000602 (base 16) Cirkitech Electronics Co.
B1-2, No. 361, Fu-Xing First Road
Tao-Yuan
TW

00-05-AB (hex) Cyber Fone, Inc.
0005AB (base 16) Cyber Fone, Inc.
989 Old Eagle School Road
Wayne PA 19087
US

00-05-92 (hex) Pultek Corp.
000592 (base 16) Pultek Corp.
74-1, Yamashita-cho,

231-0023
JP

00-05-FB (hex) ShareGate, Inc.
0005FB (base 16) ShareGate, Inc.
9805 Double R Blvd.
Reno NV 89511-5917
US

00-05-F0 (hex) SATEC
0005F0 (base 16) SATEC
P.O. Box 45022
91450
IL

00-05-D1 (hex) Metavector Technologies
0005D1 (base 16) Metavector Technologies
Steenweg Op Gierle, 100

BE

00-05-FE (hex) Traficon N.V.
0005FE (base 16) Traficon N.V.
Bissegemsestraat 45

BE

00-05-10 (hex) Infinite Shanghai Communication Terminals Ltd.
000510 (base 16) Infinite Shanghai Communication Terminals Ltd.
777 Chungiao Road, Pudong

CN

00-05-01 (hex) Cisco Systems, Inc
000501 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-05-08 (hex) Inetcam, Inc.
000508 (base 16) Inetcam, Inc.
10171 Pacific Mesa Blvd.
San Diego CA 92121
US

00-04-FF (hex) Acronet Co., Ltd.
0004FF (base
16) Acronet Co., Ltd.
Saman B/D 2Fl
137-064
KR

00-05-04 (hex) Naray Information & Communication Enterprise
000504 (base 16) Naray Information & Communication Enterprise
3F San Woo Bldg., 1543-11
Seoul 137-070
KR

00-05-15 (hex) Nuark Co., Ltd.
000515 (base 16) Nuark Co., Ltd.
12F, Anyang K center, 1591-9, Burim-dong
Gunggi-do 431-065
KR

00-05-1B (hex) Magic Control Technology Corporation
00051B (base 16) Magic Control Technology Corporation
6F, No. 120-11 Chung Shan Rd.

TW

00-05-13 (hex) VTLinx Multimedia Systems, Inc.
000513 (base 16) VTLinx Multimedia Systems, Inc.

8401 Colesville Road,
Silver Spring MD 20910
US

00-05-0E (hex) 3ware, Inc.
00050E (base 16) 3ware, Inc.
701 E. Middlefield Rd.
Mt. View CA 94043
US

00-05-86 (hex) Lucent Technologies
000586 (base 16) Lucent Technologies
1701 Harbor Bay Parkway
Alameda CA 94502
US

00-05-7B
(hex) Chung Nam Electronic Co., Ltd.
00057B (base 16) Chung Nam Electronic Co., Ltd.
Unit 3, 1/F, Festigood Centre
Tsuen Fanling,
HK

00-05-71 (hex) Seiwa Electronics Co.
000571 (base 16) Seiwa Electronics Co.
757 Amabouki, Kukizaki-Machi
300-1253
JP

00-05-70 (hex) Baydel Ltd.
000570 (base 16) Baydel Ltd.
Baydel House

GB

00-05-77 (hex) SM Information & Communication
000577 (base 16) SM Information & Communication
330-1 Yangjaedong
137-130
KR

00-05-38 (hex) Merilus, Inc.
000538 (base 16) Merilus, Inc.
#307-46165 Yale Road
V2P 2P2
CA

00-05-30 (hex) Andiamo Systems, Inc.

000530 (base 16) Andiamo Systems, Inc.
375 E. Tasman Dr.
San Jose CA 95134
US

00-05-6E (hex) National Enhance Technology, Inc.
00056E (base 16) National Enhance Technology, Inc.
2F, No. 196-3, Tatung Rd., Sec. 3,

TW

00-05-6D (hex) Pacific Corporation
00056D
(base 16) Pacific Corporation
2-23-3 Ebisu-Minami Shibuya

JP

00-05-5C (hex) Kowa Company, Ltd.
00055C (base 16) Kowa Company, Ltd.
Chofugaoka 3-3-1,
182-0021
JP

00-05-49 (hex) Salira Optical Network Systems
000549 (base 16) Salira Optical Network Systems
2694 Orchard Parkway
San Jose CA 95134
US

00-05-4C (hex) RF Innovations Pty Ltd
00054C (base 16) RF Innovations Pty Ltd
22 Boulder Road
Malaga WA 6090
AU

00-05-43 (hex) IQ Wireless GmbH
000543 (base 16) IQ Wireless GmbH
Carl-Scheele-Str. 14

DE

00-05-1D (hex) Airocon, Inc.
00051D (base 16) Airocon, Inc.
116 Houghton Lane
Boxboro MA 01719
US

00-05-16 (hex) SMART Modular Technologies
000516 (base 16) SMART Modular Technologies
4305 Cushing Pkwy
Fremont CA 94538
US

00-05-2B (hex) HORIBA, Ltd.
00052B (base 16) HORIBA, Ltd.
2 Miyanohigashi, Kisshoin,

601-8510
JP

00-04-92 (hex) Hive Internet, Ltd.
000492 (base 16) Hive Internet, Ltd.
Unit 2, Church View Business Centre
Binbrook Market Rasen, Lincolnshire LN8 6BY
GB

00-04-8C (hex) Nayna Networks, Inc.
00048C (base 16) Nayna Networks, Inc.
157 Topaz St.
Milpitas CA 95035
US

00-04-91 (hex) Technovision, Inc.
000491 (base 16) Technovision, Inc.
5155 Spectrum Way, Unit #31
L4W 5A1
CA

00-04-93 (hex) Tsinghua Unisplendour Co., Ltd.
000493 (base 16) Tsinghua Unisplendour Co., Ltd.
Th-Unis Building Tsinghua
P.R.
CN

00-04-94 (hex) Breezecom, Ltd.
000494 (base 16) Breezecom, Ltd.
Atidim Technology Park

IL

00-04-E0 (hex) Procket Networks
0004E0 (base 16) Procket Networks
1100 Cadillac Court
Milpitas CA 95035
US

00-04-DB (hex) Tellus Group Corp.
0004DB (base 16) Tellus Group Corp.
4F, No. 15 Industry E. Rd., IX
Hsinchu Hsinchu
Taiwan
TW

00-04-DD (hex) Cisco Systems, Inc
0004DD (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-80-86 (hex) COMPUTER GENERATION INC.
008086 (base 16) COMPUTER GENERATION INC.
3855 PRESIDENTIAL PARKWAY
ATLANTA GA 30340
US

00-04-89 (hex) YAFO Networks, Inc.
000489 (base 16) YAFO Networks, Inc.
1340F Charwood Rd.
Hanover MD 21076
US

00-04-8A (hex) Temia Vertriebs GmbH
00048A (base 16) Temia Vertriebs GmbH
Landsbergerstraße 320

DE

00-04-81 (hex) Econolite Control Products, Inc.
000481 (base 16) Econolite Control Products, Inc.
3360 E. La Palma Ave.
Anaheim CA 92806
US

00-04-77 (hex) Scalant Systems, Inc.
000477 (base 16) Scalant Systems, Inc.
2040 Martin Avenue
Santa Clara CA 95050
US

00-04-D7 (hex) Omitec Instrumentation Ltd.
0004D7 (base 16) Omitec Instrumentation Ltd.
Hopton Industrial Est.

ENGLAND
GB

00-04-D4 (hex) Proview Electronics Co., Ltd.
0004D4 (base 16) Proview Electronics Co., Ltd.
6F, No. 1, Pau-Sheng Road

TW

00-04-CD (hex) Extenway Solutions Inc
0004CD (base 16) Extenway Solutions Inc
500 boul. Morgan
Baie-d'Urfe Quebec H9X 3V1
CA

00-04-C0 (hex) Cisco Systems, Inc
0004C0 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-04-BA (hex) KDD Media Will Corporation
0004BA (base 16) KDD Media Will Corporation
2-1-23 Nakameguro
153-0061
JP

00-04-B6 (hex) Stratex Networks, Inc.
0004B6 (base 16) Stratex Networks, Inc.
64 White Road
Cape Town 7945
ZA

00-04-B3 (hex) Videotek, Inc.
0004B3 (base 16) Videotek, Inc.
243 Shoemaker Rd.
Pottstown PA 19464
US

00-04-E9 (hex) Infiniswitch Corporation
0004E9 (base 16) Infiniswitch Corporation
134 Flanders Road
Westborough MA 01581
US

00-04-E8
(hex) IER, Inc.
0004E8 (base 16) IER, Inc.

4501 So. General Bruce Dr
Temple TX 76502
US

00-05-09 (hex) AVOC Nishimura Ltd.
000509 (base 16) AVOC Nishimura Ltd.
Jogasaki 4-16-14

JP

00-04-FB (hex) Commtech, Inc.
0004FB (base 16) Commtech, Inc.
9011 E. 37th Street
Wichita KS 67226-2006
US

00-04-A4 (hex) NetEnabled, Inc.
0004A4 (base 16) NetEnabled, Inc.
1275 Kinnear Rd.
Columbus OH 43212
US

00-04-39 (hex) Rosco Entertainment Technology, Inc.
000439 (base 16) Rosco Entertainment Technology, Inc.
2181 NW Front Ave.
Portland OR 97209
US

00-04-3A (hex) Intelligent Telecommunications, Inc.
00043A (base 16) Intelligent Telecommunications, Inc.
1687-2, Sinil-dong
SOUTH KOREA 306-230
KR

00-04-3F (hex) ESTeem Wireless Modems, Inc
00043F (base 16) ESTeem Wireless Modems, Inc
415 N. Quay St., Suite 4
Kennewick WA 99336
US

00-04-33
(hex) Cyberboard A/S
000433 (base 16) Cyberboard A/S
Kloevermarken 120

DK

00-04-34 (hex) Accelent Systems, Inc.

000434 (base 16) Accelent Systems, Inc.
2620 Ridgewood Rd.,
Akron OH 44313
US

00-04-2D (hex) Sarian Systems, Ltd.
00042D (base 16) Sarian Systems, Ltd.
Beacon House
West Yorkshire ENGLAND LS29 8JZ
GB

00-04-73 (hex) Photonex Corporation
000473 (base 16) Photonex Corporation
8C Preston Court
Bedford MA 01730
US

00-04-70 (hex) ipUnplugged AB
000470 (base 16) ipUnplugged AB
Box 10160

SE

00-04-6C (hex) Cyber Technology Co., Ltd.
00046C (base 16) Cyber Technology Co., Ltd.
1-45 Yeo Wol-Dong
Kyeong Gi-Do Kyeong Gi-Do KOREA
KR

00-04-71 (hex) IPrad
000471 (base 16) IPrad
24 Raoul Wallenberg St.

IL

00-04-6E (hex) Cisco Systems, Inc
00046E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-04-74
(hex) LEGRAND
000474 (base 16) LEGRAND
145 Avenue De Lattre

FR

00-04-16 (hex) Parks S/A Comunicacoes Digitais
000416 (base 16) Parks S/A Comunicacoes Digitais
Av. Pernambuco, 1001

BR

00-04-0F (hex) Asus Network Technologies, Inc.
00040F (base 16) Asus Network Technologies, Inc.
11-1, No. 675, Sec. 1, King-kuo Rd.,
TAIWAN TAIWAN R.O.C.
TW

00-04-0A (hex) Sage Systems
00040A (base 16) Sage Systems
1420 Harbor Bay Parkway
Alameda CA 94502
US

00-04-04 (hex) Makino Milling Machine Co., Ltd.
000404 (base 16) Makino Milling Machine Co., Ltd.
4023 Nakatsu, Aikawa-machi
Aiko-gun Kanagawa 243-0303
JP

00-04-05 (hex) ACN Technologies
000405 (base 16) ACN Technologies
9F, HeyKang B/D, 157-36
Seoul KOREA #135-090
KR

00-04-01 (hex) Osaki Electric Co., Ltd.
000401 (base 16) Osaki Electric Co., Ltd.
1131, Fujikubo, Miyoshimachi,

JP

00-03-F4 (hex) NetBurner
0003F4 (base 16) NetBurner
5405 Morehouse Drive
San Diego CA 92121
US

00-03-F2 (hex) Seneca Networks
0003F2 (base 16) Seneca Networks
30 West Gude Dr.
Rockville MD 20850
US

00-04-2E (hex) Netous Technologies, Ltd.
00042E (base 16) Netous Technologies, Ltd.
1006, Block A,
HONG KONG
HK

00-04-25 (hex) Atmel Corporation
000425 (base 16) Atmel Corporation
Multimedia & Communications Group
Morrisville NC 27560
US

00-04-1B (hex) Bridgeworks Ltd.
00041B (base 16) Bridgeworks Ltd.
Unit 1 Aero Centre Ampress Park
Lymington Hampshire SO41 8QF
GB

00-03-E3 (hex) Cisco Systems, Inc
0003E3 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-03-DB (hex) Apogee Electronics Corp.
0003DB (base 16) Apogee Electronics Corp.
1715 Berkeley St.
Santa Monica CA 90405-3210
US

00-03-D2 (hex) Crossbeam
Systems, Inc.
0003D2 (base 16) Crossbeam Systems, Inc.
80 Central Street
Boxborough MA 01719
US

00-03-F0 (hex) Redfern Broadband Networks
0003F0 (base 16) Redfern Broadband Networks
Level 1, 1 Central Ave.,

AU

00-03-EB (hex) Atrica
0003EB (base 16) Atrica
5 Shenkar St. P.O.B. 12231
46733 46733

IL

00-03-E7 (hex) Logostek Co. Ltd.
0003E7 (base 16) Logostek Co. Ltd.
19th 15 Sunusu-Academy Tower
Seoul KOREA 133-123
KR

00-04-4C (hex) JENOPTIK
00044C (base 16) JENOPTIK
Laser, Optik, Systeme GmbH

DE

00-04-44 (hex) Western Multiplex Corporation
000444 (base 16) Western Multiplex Corporation
1196 Borregas Avenue
Sunnyvale CA 94089
US

00-04-5D (hex) BEKA Elektronik
00045D (base 16) BEKA Elektronik
Siemenstraße 29
Erftstadt 50374
DE

00-04-59 (hex) Veristar Corporation
000459 (base 16) Veristar Corporation
727
Allston Way
Berkeley CA 94710
US

00-03-B6 (hex) QSI Corporation
0003B6 (base 16) QSI Corporation
2212 South West Temple #50
Salt Lake City UT 84115
US

00-03-B1 (hex) ICU Medical, Inc.
0003B1 (base 16) ICU Medical, Inc.
951 Calle Amanecer
San Clemente CA 92673
US

00-03-B3 (hex) IA Link Systems Co., Ltd.
0003B3 (base 16) IA Link Systems Co., Ltd.
6F-4, No. 81 Hsin Tai

TAIWAN TAIWAN R.O.C.
TW

00-03-AD (hex) Emerson Energy Systems AB
0003AD (base 16) Emerson Energy Systems AB
PO Box 92113

SE

00-03-A7 (hex) Unixtar Technology, Inc.
0003A7 (base 16) Unixtar Technology, Inc.
13F No. 100 Ming Chuan Road
TAIWAN
TW

00-03-AE (hex) Allied Advanced Manufacturing Pte, Ltd.
0003AE (base 16) Allied Advanced Manufacturing Pte, Ltd.
7 International Business Park
Singapore 609919
SG

00-03-63 (hex) Miraesys Co., Ltd.
000363 (base 16) Miraesys
Co., Ltd.
650-2 4 Fl. Daemyung Bldg.
135-080
KR

00-03-5F (hex) Prüftechnik Condition Monitoring GmbH & Co. KG
00035F (base 16) Prüftechnik Condition Monitoring GmbH & Co. KG
Franz-Bayer-Straße 14

DE

00-03-60 (hex) PAC Interactive Technology, Inc.
000360 (base 16) PAC Interactive Technology, Inc.
6F, No. 30, Alley 18, Lane 478
Taipei
TW

00-03-61 (hex) Widcomm, Inc.
000361 (base 16) Widcomm, Inc.
9645 Scranton Road
San Diego CA 92121
US

00-03-59 (hex) DigitalSis
000359 (base 16) DigitalSis

B-1405 Samho Bldg.
Seocho Seoul,
KR

00-03-52 (hex) Colubris Networks
000352 (base 16) Colubris Networks
440 Armand-Frappier
H7V 4B4
CA

00-03-A3 (hex) MAVIX, Ltd.
0003A3 (base 16) MAVIX, Ltd.
POB 217, Yokneam Illit,
20692
IL

00-03-A1 (hex) HIPER Information & Communication, Inc.
0003A1 (base 16) HIPER Information & Communication, Inc.
1675-7,
Sinil-dong,
306-230 South Korea
KR

00-03-96 (hex) EZ Cast Co., Ltd.
000396 (base 16) EZ Cast Co., Ltd.
6th Floor, JungAng Building,
KOREA
KR

00-03-9A (hex) SiConnect
00039A (base 16) SiConnect
Delta 100
Swindon SN5 7XP
GB

00-03-94 (hex) Connect One
000394 (base 16) Connect One
2 Hanagar Street

IL

00-03-8A (hex) America Online, Inc.
00038A (base 16) America Online, Inc.
44900 Prentice Drive
Dulles VA 20166
US

00-03-8D (hex) PCS Revenue Control Systems, Inc.

00038D (base 16) PCS Revenue Control Systems, Inc.
560 Sylvan Ave.
Englewood Cliffs NJ 07632
US

00-03-88 (hex) Fastfame Technology Co., Ltd.
000388 (base 16) Fastfame Technology Co., Ltd.
7F, No. 111, Hsing De Rd.,
TAIWAN TAIWAN R.O.C.
TW

00-03-D0 (hex) KOANKEISO Co., Ltd.
0003D0 (base 16) KOANKEISO Co., Ltd.
Zip Code 791-8042

JP

00-03-CF
(hex) Muxcom, Inc.
0003CF (base 16) Muxcom, Inc.
D 602, Bundang Technopark #151
Kyungki Do KOREA 463-070
KR

00-03-D1 (hex) Takaya Corporation
0003D1 (base 16) Takaya Corporation
Development Division

JP

00-03-7E (hex) PORTech Communications, Inc.
00037E (base 16) PORTech Communications, Inc.
150, Shiang-Shung N. Rd.,
Taichung Taiwan 403, R.O.C.
TW

00-03-74 (hex) Control Microsystems
000374 (base 16) Control Microsystems
48 Steacie Drive
Ottawa Ontario K2K 2A9
CA

00-03-76 (hex) Graphtec Technology, Inc.
000376 (base 16) Graphtec Technology, Inc.
45 Parker, Suite A
Irvine CA 92618
US

00-03-78 (hex) HUMAX Co., Ltd.
000378 (base 16) HUMAX Co., Ltd.
271-2, Suh-hyun-Dong,

KR

00-03-6D (hex) Runtop, Inc.
00036D (base 16) Runtop, Inc.
1, Lane 21, Hsin Hua Road, Kueishan

TW

00-03-6E (hex) Nicon Systems (Pty) Limited
00036E
(base 16) Nicon Systems (Pty) Limited
11 Termo Street

ZA

00-03-71 (hex) Acomz Networks Corp.
000371 (base 16) Acomz Networks Corp.
7th Fl., Wooseok Bldg., 1007-37
Seoul 156-09
KR

00-03-4C (hex) Shanghai DigiVision Technology Co., Ltd.
00034C (base 16) Shanghai DigiVision Technology Co., Ltd.
11F, Heng Tong
Shanghai 200050
CN

00-03-49 (hex) Vidicode Datacommunicatie B.V.
000349 (base 16) Vidicode Datacommunicatie B.V.
Postbus 7164

NL

00-03-3E (hex) Tateyama System Laboratory Co., Ltd.
00033E (base 16) Tateyama System Laboratory Co., Ltd.
30 Shimonoban Oyama-cho
930-1305
JP

00-03-3C (hex) Daiden Co., Ltd.
00033C (base 16) Daiden Co., Ltd.
2100-19 Tutumi, Kamimine-machi

JP

00-03-1F (hex) Condev Ltd.
00031F (base 16) Condev Ltd.
200-1626 West 2nd Ave.

CA

00-02-9F (hex) L-3 Communication Aviation Recorders
00029F (base
16) L-3 Communication Aviation Recorders
P.O. Box 3041
Sarasota FL 34230
US

00-03-1B (hex) Cellvision Systems, Inc.
00031B (base 16) Cellvision Systems, Inc.
3F-1, 75, Hsin Taiwu Road, Sec. 1

TW

00-03-1C (hex) Svenska Hardvarufabriken AB
00031C (base 16) Svenska Hardvarufabriken AB
Ole Romersvag 16, Ideon

SE

00-01-A8 (hex) Welltech Computer Co., Ltd.
0001A8 (base 16) Welltech Computer Co., Ltd.
13F-4, no. 150, Jian Yi Road
TAIWAN TAIWAN R.O.C.
TW

00-03-17 (hex) Merlin Systems, Inc.
000317 (base 16) Merlin Systems, Inc.
3900 New Park Mall Rd.
Newark CA 94560
US

00-03-18 (hex) Cyras Systems, Inc.
000318 (base 16) Cyras Systems, Inc.
47100 Bayside Parkway
Fremont CA 94538
US

00-03-0C (hex) Telesoft Technologies Ltd.
00030C (base 16) Telesoft Technologies Ltd.
Observatory House, Stour Park,

GB

00-03-08 (hex) AM Communications,
Inc.
000308 (base 16) AM Communications, Inc.
100 Commerce Blvd.
Quakertown PA 18951
US

00-03-07 (hex) Secure Works, Inc.
000307 (base 16) Secure Works, Inc.
11 Executive Drive
Atlanta GA 30329
US

00-03-06 (hex) Fusion In Tech Co., Ltd.
000306 (base 16) Fusion In Tech Co., Ltd.
6Fl, Daeyoon Bldg. 1688-5, Seocho-dong
Seoul,
KR

00-02-FC (hex) Cisco Systems, Inc
0002FC (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-02-9E (hex) Information Equipment Co., Ltd.
00029E (base 16) Information Equipment Co., Ltd.
740-1 Eaho Bldg., Yeok Sam-Dong
Seoul Korea #135-080
KR

00-02-9B (hex) Kreatel Communications AB
00029B (base 16) Kreatel Communications AB
Teknikringen 4C

SE

00-02-95 (hex) IP.Access Limited
000295 (base 16) IP.Access Limited
Melbourn Science Park
SG8 6EE SG8 6EE U.K.
GB

00-02-93 (hex) Solid
Data Systems
000293 (base 16) Solid Data Systems

2945 Oakmead Village Court
Santa Clara CA 95051
US

00-03-2A (hex) UniData Communication Systems, Inc.
00032A (base 16) UniData Communication Systems, Inc.
2F, OhSung-Bldg, 82-15,

KR

00-03-25 (hex) Arima Computer Corp.
000325 (base 16) Arima Computer Corp.
6th Fl., No. 327,

TW

00-02-FA (hex) DX Antenna Co., Ltd.
0002FA (base 16) DX Antenna Co., Ltd.
2-15 Hamazaki-Dori,

JP

00-02-FB (hex) Baumuller Aulugen-Systemtechnik GmbH
0002FB (base 16) Baumuller Aulugen-Systemtechnik GmbH
Ostendsts. 84

DE

00-02-F6 (hex) Equipe Communications
0002F6 (base 16) Equipe Communications
100 Nagog Park
Acton MA 01720
US

00-02-23 (hex) ClickTV
000223 (base 16) ClickTV
Kemong Bldg., 4th Fl.,
Seoul Korea 135-010
KR

00-02-CB (hex) TriState Ltd.
0002CB (base 16) TriState Ltd.
Shinonaga
Blg. 4-11-19 Hokko-cho
053-0852 053-0852
JP

00-02-CA (hex) EndPoints, Inc.

0002CA (base 16) EndPoints, Inc.
4 Preston Court
Bedford MA 01730
US

00-02-C4 (hex) OPT Machine Vision Tech Co., Ltd
0002C4 (base 16) OPT Machine Vision Tech Co., Ltd
no. 8 JInSheng Road, JinXia Zone, Chang'An Town
Dongguan Guangdong 523000
CN

00-02-BF (hex) dotRocket, Inc.
0002BF (base 16) dotRocket, Inc.
1901 S. Bascom, Suite 300
Campbell CA 95008
US

00-02-E3 (hex) LITE-ON Communications, Inc.
0002E3 (base 16) LITE-ON Communications, Inc.
736 S. Hillview Drive
Milpitas CA 95035
US

00-02-DD (hex) Bromax Communications, Ltd.
0002DD (base 16) Bromax Communications, Ltd.
No. 20 Kuang Fu Road,
Hsin Chu 303
TW

00-02-A7 (hex) Vivace Networks
0002A7 (base 16) Vivace Networks
2730 Orchard Parkway
San Jose CA 95134
US

00-02-72 (hex) CC&C Technologies, Inc.
000272
(base 16) CC&C Technologies, Inc.
8F, 150, Chien I Rd., Chung Ho City,
Taipei County 235 Taiwan R.O.C.
TW

00-02-6D (hex) Adept Telecom
00026D (base 16) Adept Telecom
Avenue de l'Europe

FR

00-02-6B (hex) BCM Computers Co., Ltd.
00026B (base 16) BCM Computers Co., Ltd.
6F-6, No. 66, Sec 2,
TAIWAN TAIWAN R.O.C.
TW

00-02-66 (hex) Thermalogic Corporation
000266 (base 16) Thermalogic Corporation
22 Kane Industrial Drive
Hudson MA 01749
US

00-02-68 (hex) Harris Government Communications
000268 (base 16) Harris Government Communications
Systems Division
Melbourne FL 32902
US

00-02-5E (hex) High Technology Ltd
00025E (base 16) High Technology Ltd
Chongqing Jinghong
People's Republic of
CN

00-02-60 (hex) Accordion Networks, Inc.
000260 (base 16) Accordion Networks, Inc.
39899 Balentine Drive, #335
Newark CA 94560
US

00-01-2F (hex) Twinhead
International Corp
00012F (base 16) Twinhead International Corp
2FL, 2, Lane 235, Bao-Chiao Road
TAIWAN TAIWAN R.O.C.
TW

00-02-47 (hex) Great Dragon Information Technology (Group) Co., Ltd.
000247 (base 16) Great Dragon Information Technology (Group) Co., Ltd.
169 Beiyuan Rd.,
Beijing 100101,
CN

00-02-43 (hex) Raysis Co., Ltd.
000243 (base 16) Raysis Co., Ltd.
997-10, Daechi-Dong, Kangnam-Ku,
Seoul 135-280, South Korea
KR

00-02-09 (hex) Shenzhen SED Information Technology Co., Ltd.
000209 (base 16) Shenzhen SED Information Technology Co., Ltd.
4/F., West Block, Block 414, Zhenhua Rd.

CN

00-02-06 (hex) Telital R&D Denmark A/S
000206 (base 16) Telital R&D Denmark A/S
9530 Stouring

DK

00-02-02 (hex) Amino Communications, Ltd.
000202 (base 16) Amino Communications, Ltd.
Times House
UK CB4 5LH
GB

00-02-01 (hex) IFM Electronic gmbh
000201 (base
16) IFM Electronic gmbh
Bechlingen 34

DE

00-90-64 (hex) Thomson Inc.
009064 (base 16) Thomson Inc.
101 West 103rd Street
Indianapolis IN 46290-1102
US

00-02-7A (hex) IOI Technology Corporation
00027A (base 16) IOI Technology Corporation
4F-3 No. 125 Lane 235,
Taipei TAIWAN, R.O.C.
TW

00-02-74 (hex) Tommy Technologies Corp.
000274 (base 16) Tommy Technologies Corp.
#407 Heehoon Bld
Seoul Seoul KOREA
KR

00-02-89 (hex) DNE Technologies
000289 (base 16) DNE Technologies
50 Barnes Park N
Wallingford CT 06492

US

00-02-83 (hex) Spectrum Controls, Inc.
000283 (base 16) Spectrum Controls, Inc.
PO Box 5533
Bellevue WA 98006
US

00-02-84 (hex) UK Grid Solutions Limited
000284 (base 16) UK Grid Solutions Limited
St Leonards Building Redhill Business Park
Stafford ST16 1TW
GB

00-02-80 (hex) Mu Net, Inc.
000280 (base 16) Mu Net, Inc.
442
Marrett Road
Lexington MA 02421
US

00-02-31 (hex) Ingersoll-Rand
000231 (base 16) Ingersoll-Rand
1467 Route 31 South
Annandale NJ 08801
US

00-02-34 (hex) Imperial Technology, Inc.
000234 (base 16) Imperial Technology, Inc.
2305 Utah Avenue
El Segundo CA 90245
US

00-02-36 (hex) INIT GmbH
000236 (base 16) INIT GmbH
Kaeppelestraße 6

DE

00-02-2B (hex) SAXA, Inc.
00022B (base 16) SAXA, Inc.
NBF Platinum Tower 1-17-3 Shirokane
Minato-ku Tokyo 108-8050
JP

00-02-24 (hex) C-COR
000224 (base 16) C-COR
15 Sterling Drive

Wallingford CT 06492
US

00-02-1F (hex) Aculab PLC
00021F (base 16) Aculab PLC
Lakeside, Bramley Road
Milton Keynes MK1 1PT
GB

00-02-1A (hex) Zuma Networks
00021A (base 16) Zuma Networks
8403 Fallbrook Ave.
West Hills CA 91304
US

00-02-22 (hex) Chromisys, Inc.
000222 (base 16) Chromisys, Inc.
1012
Stewart Drive
Sunnyvale CA 94086
US

00-01-EF (hex) Camtel Technology Corp.
0001EF (base 16) Camtel Technology Corp.
No. 2, Wu-Kung 5 Rd., Wu-Ku
Taiwan Taiwan R.O.C.
TW

00-02-13 (hex) S.D.E.L.
000213 (base 16) S.D.E.L.
Aeropole D2A

FR

00-02-0A (hex) Gefran Spa
00020A (base 16) Gefran Spa
Via Sebina, 74

IT

00-01-D1 (hex) CoNet Communications, Inc.
0001D1 (base 16) CoNet Communications, Inc.
25 Mauchly, #320
Irvine CA 92618
US

00-01-B2 (hex) Digital Processing Systems, Inc.
0001B2 (base 16) Digital Processing Systems, Inc.

70 Valleywood Drive
L3R 4T5
CA

00-01-B8 (hex) Netsensity, Inc.
0001B8 (base 16) Netsensity, Inc.
PO Box 1060
Lake Forest CA 92630
US

00-01-B9 (hex) SKF (U.K.) Limited
0001B9 (base 16) SKF (U.K.) Limited
2 Michaelson Square Kirkton Campus
Livingston West Lothian EH54 7DP
GB

00-01-BD
(hex) Peterson Electro-Musical Products, Inc.
0001BD (base 16) Peterson Electro-Musical Products, Inc.
11601 S. Mayfield Avenue
Alsip IL 60803-2476
US

00-01-B3 (hex) Precision Electronic Manufacturing
0001B3 (base 16) Precision Electronic Manufacturing
P0187, P.O. 527948
Miami FL 33152-7948
US

00-01-4E (hex) WIN Enterprises, Inc.
00014E (base 16) WIN Enterprises, Inc.
300 Willow Street South
North Andover MA 01845
US

00-30-73 (hex) International Microsystems, In
003073 (base 16) International Microsystems, In
521 Valley Way
Milpitas CA 95035
US

00-30-3F (hex) TurboComm Tech Inc.
00303F (base 16) TurboComm Tech Inc.
4F-2, No 171, Sung-Tch Road
Taipei
TW

00-01-95 (hex) Sena Technologies, Inc.

000195 (base 16) Sena Technologies, Inc.
116-23 Shinlim-dong
KOREA
KR

00-01-84 (hex) SIEB & MEYER AG
000184 (base 16) SIEB & MEYER AG
Auf dem Schmaarkamp
21

DE

00-01-8E (hex) Logitec Corporation
00018E (base 16) Logitec Corporation
8268 Rokudouhara, Misuzu

JP

00-01-79 (hex) WIRELESS TECHNOLOGY, INC.
000179 (base 16) WIRELESS TECHNOLOGY, INC.
Anam Bldg. 2Fl, 154-17
KOREA
KR

00-01-60 (hex) ELMEX Co., LTD.
000160 (base 16) ELMEX Co., LTD.
16-30 Kimachi

JP

00-01-6D (hex) CarrierComm Inc.
00016D (base 16) CarrierComm Inc.
2231 Rutherford, Suite 110
Carlsbad CA 92008
US

00-01-6A (hex) ALITEC
00016A (base 16) ALITEC
Laval Technopole B.P. 102

FR

00-01-6F (hex) Inkel Corp.
00016F (base 16) Inkel Corp.
CheongCheon-Dong, BuPyeong-Gu,
Incheon-Si
KR

00-01-70 (hex) ESE Embedded System Engineer'g
000170 (base 16) ESE Embedded System Engineer'g
Mühlbachstraße 20

DE

00-01-B7 (hex) Centos, Inc.
0001B7 (base 16) Centos, Inc.
6F-1, NO. 15, LANE 360
TAIWAN
TAIWAN R.O.C.
TW

00-01-B5 (hex) Turin Networks, Inc.
0001B5 (base 16) Turin Networks, Inc.
1415 North McDowell Blvd.
Petaluma CA 94954
US

00-01-7E (hex) ADTEK System Science Co., Ltd.
00017E (base 16) ADTEK System Science Co., Ltd.
YBP West Tower
Hodogaya Yokohama
JP

00-01-83 (hex) ANITE TELECOMS
000183 (base 16) ANITE TELECOMS
127 Fleet Road, Fleet
UNITED KINGDOM
GB

00-01-DB (hex) Freecom Technologies GmbH
0001DB (base 16) Freecom Technologies GmbH
Obentrautstraße 72

DE

00-01-DF (hex) ISDN Communications, Ltd.
0001DF (base 16) ISDN Communications, Ltd.
The Stable Block, Ronans
ENGLAND
GB

00-01-CA (hex) Geocast Network Systems, Inc.
0001CA (base 16) Geocast Network Systems, Inc.
190 Independence Drive
Menlo Park CA 94025
US

00-01-A4 (hex) Microlink Corporation
0001A4 (base 16) Microlink Corporation
11110 Ohio Ave.,
- Ste. #108
Los Angeles CA 90034
US

00-30-5C (hex) SMAR Laboratories Corp.
00305C (base 16) SMAR Laboratories Corp.
10960 Millridge North - Ste. #107
Houston TX 77070
US

00-30-04 (hex) LEADTEK RESEARCH INC.
003004 (base 16) LEADTEK RESEARCH INC.
18F, No.166, Chien-Yi Road
Hsien
TW

00-30-F9 (hex) Sollae Systems Co., Ltd.
0030F9 (base 16) Sollae Systems Co., Ltd.
607 Incheo IT Tower
Nam-gu Incheon
KR

00-30-02 (hex) Expand Networks
003002 (base 16) Expand Networks
Atidim Tech Park, Bldg. 4
Tel-Aviv 61580
IL

00-30-78 (hex) Cisco Systems, Inc
003078 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-B0-F5 (hex) NetWorth Technologies, Inc.
00B0F5 (base 16) NetWorth Technologies, Inc.
1000 Germantown Pike
Plymouth Metting PA 19462
US

00-B0-DB (hex) Nextcell, Inc.
00B0DB (base 16) Nextcell, Inc.
651 East

18th Street
Plano TX 75074
US

00-B0-AE (hex) Symmetricom
00B0AE (base 16) Symmetricom
2300 Orchard Parkway
San Jose CA 95131
US

00-B0-E7 (hex) British Federal Ltd.
00B0E7 (base 16) British Federal Ltd.
Castle Mill Works
Dudley DY1 4DA England
GB

00-B0-8E (hex) Cisco Systems, Inc
00B08E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-01-18 (hex) EZ Digital Co., Ltd.
000118 (base 16) EZ Digital Co., Ltd.
Bitville Bldg. Room 703
Seoul
KR

00-01-28 (hex) EnjoyWeb, Inc.
000128 (base 16) EnjoyWeb, Inc.
3000 Scott Blvd. #107
Santa Clara CA 95054
US

00-01-1C (hex) Universal Talkware Corporation
00011C (base 16) Universal Talkware Corporation
10 Second St. NE
Minneapolis MN 55413
US

00-01-0C (hex) System Talks Inc.
00010C (base 16) System Talks Inc.
4F, PrimeNihonbashi Bld.
Chuo-ku Tokyo
JP

00-01-11

(hex) iDigm Inc.
000111 (base 16) iDigm Inc.
7FL Sindo B/D 1604-22 Seocho-Dong
Seoul 137-070
KR

00-01-35 (hex) KDC Corp.
000135 (base 16) KDC Corp.
200-11 AnYang 7 dong
KOREA
KR

00-01-41 (hex) CABLE PRINT
000141 (base 16) CABLE PRINT
Jozef Cardynstraat 16

BE

00-01-46 (hex) Tesco Controls, Inc.
000146 (base 16) Tesco Controls, Inc.
P.O. Box 239012
Sacramento CA 95823-9012
US

00-01-49 (hex) TDT AG
000149 (base 16) TDT AG
Siemensstraße 18
Essenbach 84051
DE

00-01-65 (hex) AirSwitch Corporation
000165 (base 16) AirSwitch Corporation
37East 200South
Springville UT 84663
US

00-01-56 (hex) FIREWIREDIRECT.COM, INC.
000156 (base 16) FIREWIREDIRECT.COM, INC.
4132 Spicewood Springs Rd - #I-4
Austin TX 78759
US

00-01-53 (hex) ARCHTEK TELECOM CORPORATION
000153 (base 16) ARCHTEK TELECOM CORPORATION
4F, No.9 Lane 130,
Min-Chyuan Rd.
231 TAIWAN
TW

00-30-BE (hex) City-Net Technology, Inc.
0030BE (base 16) City-Net Technology, Inc.
135 E. Chesnut Ave., Ste.
Monrovia CA 91016
US

00-30-92 (hex) Kontron Electronics AG
003092 (base 16) Kontron Electronics AG
Riedstrasse 1
Rotkreuz CH-6343
CH

00-01-14 (hex) KANDA TSUSHIN KOGYO CO., LTD.
000114 (base 16) KANDA TSUSHIN KOGYO CO., LTD.
23-2, Nishi-Gotanda 2-chome,
Tokyo 141-8533
JP

00-01-07 (hex) Leiser GmbH
000107 (base 16) Leiser GmbH
Ilmstr. 7
85579 Neubiberg
DE

00-01-0B (hex) Space CyberLink, Inc.
00010B (base 16) Space CyberLink, Inc.
5th Fl. Guppyung Town B
Seoul
KR

00-B0-DF (hex) Starboard Storage Systems
00B0DF (base 16) Starboard Storage Systems
12303 Airport Way
Broomfield Co 80021
US

00-01-31 (hex) Bosch Security Systems, Inc.
000131 (base 16) Bosch Security Systems, Inc.
130 Perinton
Parkway
Fairport NY 14450
US

00-30-7E (hex) Redflex Communication Systems
00307E (base 16) Redflex Communication Systems
11-29 Eastern Road
South Melbourne Victoria 3205

AU

00-30-4F (hex) PLANET Technology Corporation
00304F (base 16) PLANET Technology Corporation
11F, No. 96, Min-Chuan Road
Hsin-Tien Dist., New Taipei City
TW

00-30-22 (hex) Fong Kai Industrial Co., Ltd.
003022 (base 16) Fong Kai Industrial Co., Ltd.
4F-3, No. 13, Wu Chuan 1st Road
Hsin Chuang City, Taipei Hsien
TW

00-30-70 (hex) 1Net Corporation
003070 (base 16) 1Net Corporation
347 Elizabeth Avenue - Ste. #100
Somerset NJ 08873
US

00-30-F8 (hex) Dynapro Systems, Inc.
0030F8 (base 16) Dynapro Systems, Inc.
800 Carleton Court
New Westminster British Columbia V3M 6L3
CA

00-30-E7 (hex) CNF MOBILE SOLUTIONS, INC.
0030E7 (base 16) CNF MOBILE SOLUTIONS, INC.
7722 E. GRAY ROAD
SCOTTSDALE
AZ 85260
US

00-30-43 (hex) IDREAM TECHNOLOGIES, PTE. LTD.
003043 (base 16) IDREAM TECHNOLOGIES, PTE. LTD.
54 KALLANG BAHRU, #02-14

SG

00-30-B4 (hex) INTERSIL CORP.
0030B4 (base 16) INTERSIL CORP.
P.O. BOX 883
MELBOURNE FL 32902
US

00-30-56 (hex) HMS Industrial Networks
003056 (base 16) HMS Industrial Networks
P O Box 4126

Halmstad Halland 300 04
SE

00-30-50 (hex) Versa Technology
003050 (base 16) Versa Technology
4430 E. Miraloma Ave., - Ste.
Anaheim CA 92807
US

00-30-C0 (hex) Lara Technology, Inc.
0030C0 (base 16) Lara Technology, Inc.
2345 North First Street
San Jose CA 95131
US

00-30-05 (hex) Fujitsu Siemens Computers
003005 (base 16) Fujitsu Siemens Computers
Buergermeister ulrich 100
86199 Augsburg
DE

00-30-8F (hex) MICRILOR, Inc.
00308F (base 16) MICRILOR, Inc.
17 Lakeside Office Park
Wakefield MA 01880
US

00-30-9C
(hex) Timing Applications, Inc.
00309C (base 16) Timing Applications, Inc.
4775 Walnut St.
Boulder CO 80301
US

00-30-09 (hex) Tachion Networks, Inc.
003009 (base 16) Tachion Networks, Inc.
2 Meridian Road
Eatontown NJ 07724
US

00-30-7A (hex) Advanced Technology & Systems
00307A (base 16) Advanced Technology & Systems
Yokohama Business Park East Tower 9F,
240-0005
JP

00-30-61 (hex) MobyTEL
003061 (base 16) MobyTEL

4301 Connecticut Ave. NW
Washington DC 20008
US

00-30-B1 (hex) TrunkNet
0030B1 (base 16) TrunkNet
Aubergenviller Allee 51
Dieburg D-64807
DE

00-30-E0 (hex) OXFORD SEMICONDUCTOR LTD.
0030E0 (base 16) OXFORD SEMICONDUCTOR LTD.
25 MILTON PARK
Abingdon Oxon OX14 4SH
GB

00-30-64 (hex) ADLINK TECHNOLOGY, INC.
003064 (base 16) ADLINK TECHNOLOGY, INC.
9F, NO. 166, JIEN-YI R.D.
CHUNG-HO CITY TAIPEI
TW

00-30-DB
(hex) Mindready Solutions, Inc.
0030DB (base 16) Mindready Solutions, Inc.
2800 Marie-Curie Avenue
Quebec H4S 2C2
CA

00-30-B3 (hex) San Valley Systems, Inc.
0030B3 (base 16) San Valley Systems, Inc.
2105 S. Bascom Ave. - Ste. #390
Campbell CA 95008
US

00-30-C7 (hex) Macromate Corp.
0030C7 (base 16) Macromate Corp.
8F,Universal Center,Number 179
Taipei Hsien
TW

00-30-E4 (hex) CHIYODA SYSTEM RIKEN
0030E4 (base 16) CHIYODA SYSTEM RIKEN
2-7, KANDA-NISHIKI-CHO

JP

00-30-66 (hex) RFM

003066 (base 16) RFM
3079 Premiere Pkwy
Duluth GA 30097
US

00-30-31 (hex) LIGHTWAVE COMMUNICATIONS, INC.
003031 (base 16) LIGHTWAVE COMMUNICATIONS, INC.
261 PEPE'S FARM ROAD
MILFORD CT 06460
US

00-30-60 (hex) Powerfile, Inc.
003060 (base 16) Powerfile, Inc.
3350 Thomas Road
Santa Clara CA 95054-2062
US

00-30-A0 (hex) TYCO SUBMARINE SYSTEMS,
LTD.
0030A0 (base 16) TYCO SUBMARINE SYSTEMS, LTD.
250 INDUSTRIAL WAY WEST
EATONTOWN NJ 07724
US

00-30-15 (hex) CP CLARE CORP.
003015 (base 16) CP CLARE CORP.
78 CHERRY HILL DRIVE
BEVERLY MA 01915
US

00-30-00 (hex) ALLWELL TECHNOLOGY CORP.
003000 (base 16) ALLWELL TECHNOLOGY CORP.
4F, #15, LANE3, SEC.2
TAIWAN TAIWAN R.O.C.
TW

00-30-11 (hex) HMS Industrial Networks
003011 (base 16) HMS Industrial Networks
P O Box 4126
SE-300 04
SE

00-30-4B (hex) ORBACOM SYSTEMS, INC.
00304B (base 16) ORBACOM SYSTEMS, INC.
1704 TAYLORS LANE
CINNAMINSON NJ 08077
US

00-30-FA (hex) TELICA, INC.
0030FA (base 16) TELICA, INC.
734 FOREST STREET, BLDG.
MARLBORO MA 01752
US

00-30-A5 (hex) ACTIVE POWER
0030A5 (base 16) ACTIVE POWER
11525 STONEHOLLOW - STE.#255
AUSTIN TX 78758
US

00-30-84 (hex) ALLIED TELESYN INTERNAIONAL
003084 (base 16) ALLIED
TELESYN INTERNAIONAL
CORPORATION
SUNNYVALE CA 94086
US

00-30-E9 (hex) GMA COMMUNICATION MANUFACT'G
0030E9 (base 16) GMA COMMUNICATION MANUFACT'G
MARKETING, (1991) LTD.
ISRAEL ISRAEL 49130
IL

00-30-68 (hex) CYBERNETICS TECH. CO., LTD.
003068 (base 16) CYBERNETICS TECH. CO., LTD.
DAITOH BLDG. 4F 3-32-1
JAPAN 171-0033
JP

00-30-91 (hex) TAIWAN FIRST LINE ELEC. CORP.
003091 (base 16) TAIWAN FIRST LINE ELEC. CORP.
40 Chung-Shan Road
Taipei County
TW

00-30-CD (hex) CONEXANT SYSTEMS, INC.
0030CD (base 16) CONEXANT SYSTEMS, INC.
4311 JAMBOREE ROAD
NEWPORT BEACH CA 92660
US

00-30-5B (hex) Toko Inc.
00305B (base 16) Toko Inc.
18 COMIGAYA, TSURUGASHIMA-SHI
JAPAN 350-2281
JP

00-30-29 (hex) OPICOM
003029 (base 16) OPICOM
ROOM #302, STYLE FACTORY 151
KOREA
KR

00-30-83 (hex) Ivron Systems
003083 (base 16) Ivron Systems
19-20 YORK
ROAD

IE

00-30-B6 (hex) Cisco Systems, Inc
0030B6 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-D0-3E (hex) ROCKETCHIPS, INC.
00D03E (base 16) ROCKETCHIPS, INC.
7901 XERXES AVE. S.
MINNEAPOLIS MN 55431
US

00-D0-93 (hex) TQ - COMPONENTS GMBH
00D093 (base 16) TQ - COMPONENTS GMBH
GUT DELLING - MUHLSTR 2

DE

00-D0-3F (hex) AMERICAN COMMUNICATION
00D03F (base 16) AMERICAN COMMUNICATION
TECHNOLIGIES INTERNATIONAL INC
ROHNERT PARK CA 94928
US

00-D0-CE (hex) iSystem Labs
00D0CE (base 16) iSystem Labs
BRODISCE 7, 10C
Trzin 1236
SI

00-D0-F9 (hex) ACUTE COMMUNICATIONS CORP.
00D0F9 (base 16) ACUTE COMMUNICATIONS CORP.
NO. 1, CREATION ROAD III
TAIWAN

TW

00-D0-F7 (hex) NEXT NETS CORPORATION
00D0F7 (base 16) NEXT NETS CORPORATION
MITA KOKUSAI BLDG. 17F

JP

00-D0-44 (hex) ALIDIAN NETWORKS,
INC.
00D044 (base 16) ALIDIAN NETWORKS, INC.
1330 W. MIDDLEFIELD ROAD
MOUNTAIN VIEW CA 94043
US

00-D0-18 (hex) QWES. COM, INC.
00D018 (base 16) QWES. COM, INC.
14742 NEWPORT AVE. - STE. #203
TUSTIN CA 92780
US

00-D0-77 (hex) LUCENT TECHNOLOGIES
00D077 (base 16) LUCENT TECHNOLOGIES
CLIENT ACCESS BUSINESS UNIT
HOLMDEL NJ 07733
US

00-D0-28 (hex) Harmonic, Inc
00D028 (base 16) Harmonic, Inc
965 Stewart Drive
Sunnyvale CA 94086-3913
US

00-D0-25 (hex) XROSSTECH, INC.
00D025 (base 16) XROSSTECH, INC.
HABDONG B/D 5F 210-2
KOREA
KR

00-D0-07 (hex) MIC ASSOCIATES, INC.
00D007 (base 16) MIC ASSOCIATES, INC.
1510-1, KAIDOKI
JAPAN JAPAN 206-0012
JP

00-D0-FF (hex) Cisco Systems, Inc
00D0FF (base 16) Cisco Systems, Inc
80 West Tasman Drive

San Jose CA 94568
US

00-D0-5B (hex) ACROLOOP MOTION CONTROL
00D05B (base 16) ACROLOOP MOTION CONTROL
SYSTEMS
CHASKA
MN 55318
US

00-D0-42 (hex) MAHLO GMBH & CO. UG
00D042 (base 16) MAHLO GMBH & CO. UG
DONAUSTRASSE 12

DE

00-D0-31 (hex) INDUSTRIAL LOGIC CORPORATION
00D031 (base 16) INDUSTRIAL LOGIC CORPORATION
15 PIEDMONT CENTER-STE #700
ATLANTA GA 30305
US

00-D0-38 (hex) FIVEMERE, LTD.
00D038 (base 16) FIVEMERE, LTD.
UNIT 1-HERON INDUSTRIAL ESTATE
RG7 1PJ ENGLAND
GB

00-D0-C6 (hex) THOMAS & BETTS CORP.
00D0C6 (base 16) THOMAS & BETTS CORP.
Thomas & Betts Aust. Pty. Ltd.
Lidcombe New South Wales
AU

00-01-A7 (hex) UNEX TECHNOLOGY CORPORATION
0001A7 (base 16) UNEX TECHNOLOGY CORPORATION
8F-5, #130, SZE WEI RD.,
HSINCHU
TW

00-D0-A9 (hex) SHINANO KENSHI CO., LTD.
00D0A9 (base 16) SHINANO KENSHI CO., LTD.
ELECTRONIC EQUIPMENT DIVISION

JP

00-D0-DD (hex) SUNRISE TELECOM, INC.
00D0DD (base 16) SUNRISE TELECOM, INC.

22 GREAT
OAKS BLVD.
SAN JOSE CA 95119
US

00-D0-E6 (hex) IBOND INC.
00D0E6 (base 16) IBOND INC.
3160, DE LA CRUZ BLVD.
SANTA CLARA CA 95054
US

00-D0-D1 (hex) Sycamore Networks
00D0D1 (base 16) Sycamore Networks
220 Mill Rd
Chelmsford MA 01824
US

00-D0-87 (hex) MICROFIRST INC.
00D087 (base 16) MICROFIRST INC.
11 EAST OAK STREET
OAKLAND NJ 07436
US

00-D0-91 (hex) SMARTSAN SYSTEMS, INC.
00D091 (base 16) SMARTSAN SYSTEMS, INC.
4655 OLD IRONSIDES DR. #480
SANTA CLARA CA 95054
US

00-D0-40 (hex) SYSMATE CO., LTD.
00D040 (base 16) SYSMATE CO., LTD.
1091 WOLPYONG-DONG
SOUTH KOREA
KR

00-D0-8C (hex) GENOA TECHNOLOGY, INC.
00D08C (base 16) GENOA TECHNOLOGY, INC.
5401 TECH CIRCLE
MOORPARK CA 93021
US

00-D0-59 (hex) AMBIT MICROSYSTEMS CORP.
00D059 (base 16) AMBIT MICROSYSTEMS CORP.
5F-1, 5 HSIN-AN ROAD
TAIWAN TAIWAN R.O.C.
TW

00-D0-FD

(hex) OPTIMA TELE.COM, INC.
00D0FD (base 16) OPTIMA TELE.COM, INC.
4-20 Cachet Woods Court
Markham ON L6C 3G1
CA

00-D0-27 (hex) APPLIED AUTOMATION, INC.
00D027 (base 16) APPLIED AUTOMATION, INC.
P.O. BOX 9999
BARTLESVILLE OK 74005-9999
US

00-D0-80 (hex) EXABYTE CORPORATION
00D080 (base 16) EXABYTE CORPORATION
1685 38TH STREET
BOULDER CO 80301
US

00-D0-4E (hex) LOGIBAG
00D04E (base 16) LOGIBAG
2, Rue de la Mandinière

FR

00-D0-2C (hex) CAMPBELL SCIENTIFIC, INC.
00D02C (base 16) CAMPBELL SCIENTIFIC, INC.
815 W. 1800 N.
LOGAN UT 84321-1784
US

00-D0-CD (hex) ATAN TECHNOLOGY INC.
00D0CD (base 16) ATAN TECHNOLOGY INC.
#5, ALLEY 18, LANE 81,
TAIWAN TAIWAN R.O.C.
TW

00-D0-A6 (hex) LANBIRD TECHNOLOGY CO., LTD.
00D0A6 (base 16) LANBIRD TECHNOLOGY CO., LTD.
ROOM A-211, S.B.I.
KOREA 157-030
KR

00-D0-49 (hex) IMPRESSTEK CO., LTD.
00D049
(base 16) IMPRESSTEK CO., LTD.
6F, SPECIALTY CONSTRUCTION CTR
302-120 KOREA (REP.)
KR

00-D0-03 (hex) COMDA ENTERPRISES CORP.
00D003 (base 16) COMDA ENTERPRISES CORP.
2F, NO. 501-18, CHUNGCHEN ROAD
TAIWAN TAIWAN ROC
TW

00-D0-D2 (hex) EPILOG CORPORATION
00D0D2 (base 16) EPILOG CORPORATION
500 CORPORATE CIRCLE - STE.
GOLDEN CO 80401
US

00-D0-6F (hex) KMC CONTROLS
00D06F (base 16) KMC CONTROLS
P.O. BOX 497
NEW PARIS IN 46553
US

00-D0-89 (hex) DYNACOLOR, INC.
00D089 (base 16) DYNACOLOR, INC.
No.116, Zhouzi St., Neihu Dist.
Taipei City 114
TW

00-D0-72 (hex) BROADLOGIC
00D072 (base 16) BROADLOGIC
463 S. MILPITAS BLVD.
MILPITAS CA 95035
US

00-D0-E2 (hex) MRT MICRO, INC.
00D0E2 (base 16) MRT MICRO, INC.
14000 S. MILITARY TRAIL
DELRAY BEACH FL 33484
US

00-D0-1A (hex) URMET TLC S.P.A.
00D01A (base 16) URMET TLC S.P.A.
VIA DI
CASTEL ROMANO 167

IT

00-D0-6A (hex) LINKUP SYSTEMS CORPORATION
00D06A (base 16) LINKUP SYSTEMS CORPORATION
1190 COLEMAN AVE.- STE #2C
SAN JOSE CA 95110

US

00-50-F9 (hex) Sensormatic Electronics LLC
0050F9 (base 16) Sensormatic Electronics LLC
1501 Yamato Rd
Boca Raton FL 33431
US

00-50-48 (hex) INFOLIBRIA
005048 (base 16) INFOLIBRIA
411 WAVERLY OAKS RD-STE #323
WALTHAM MA 02154-8414
US

00-50-4E (hex) SIERRA MONITOR CORP.
00504E (base 16) SIERRA MONITOR CORP.
1991 TAROB COURT
MILPITAS CA 95035
US

00-50-D7 (hex) TELSTRAT
0050D7 (base 16) TELSTRAT
3600 AVENUE
PLANO TX 75074
US

00-50-F6 (hex) PAN-INTERNATIONAL INDUSTRIAL CORP.
0050F6 (base 16) PAN-INTERNATIONAL INDUSTRIAL CORP.
GF, NO. 176, CHANG CHUN RD.
TAIPEI
TW

00-50-E6 (hex) HAKUSAN CORPORATION
0050E6 (base 16) HAKUSAN CORPORATION
J TOWER, 1-1, NIKKOU-CHO

JP

00-50-3C
(hex) TSINGHUA NOVEL ELECTRONICS
00503C (base 16) TSINGHUA NOVEL ELECTRONICS
CO., LTD.
100084 100084
CN

00-50-60 (hex) TANDBERG TELECOM AS
005060 (base 16) TANDBERG TELECOM AS
Philip Pedersens vei 20

1361 Lysaker
NO

00-50-EE (hex) TEK DIGITEL CORPORATION
0050EE (base 16) TEK DIGITEL CORPORATION
20010 CENTURY BLVD. #300
GERMANTOWN MD 20874
US

00-50-FF (hex) HAKKO ELECTRONICS CO., LTD.
0050FF (base 16) HAKKO ELECTRONICS CO., LTD.
238, KAMIKASHIWANO-MACHI
MATTO-SHI, ISHIKAWA 924-0035
JP

00-50-D2 (hex) CMC Electronics Inc
0050D2 (base 16) CMC Electronics Inc
600 Dr.Frederik-Philips Blvd
Montreal QC H4M 2S9
CA

00-50-68 (hex) ELECTRONIC INDUSTRIES ASSOCIATION
005068 (base 16) ELECTRONIC INDUSTRIES ASSOCIATION
2500 WILSON BLVD.
ARLINGTON VA 22201
US

00-50-1C (hex) JATOM SYSTEMS, INC.
00501C (base 16) JATOM SYSTEMS, INC.
99 MICHAEL
COWPLAND DRIVE
ONTARIO, K2M 1X3
CA

00-50-7A (hex) XPEED, INC.
00507A (base 16) XPEED, INC.
4699 OLD IRONSIDES DRIVE
SANTA CLARA CA 95054
US

00-50-2E (hex) CAMBEX CORPORATION
00502E (base 16) CAMBEX CORPORATION
115 Flanders Road
Westborough MA 01581
US

00-50-6E (hex) CORDER ENGINEERING CORPORATION
00506E (base 16) CORDER ENGINEERING CORPORATION

151 KALMUS DRIVE - STE #A103
COSTA MESA CA 92626
US

00-50-2C (hex) SOYO COMPUTER, INC.
00502C (base 16) SOYO COMPUTER, INC.
NO. 21 WU-KUNG 5 RD.
TAIWAN TAIWAN R.O.C.
TW

00-D0-CC (hex) TECHNOLOGIES LYRE INC.
00D0CC (base 16) TECHNOLOGIES LYRE INC.
1200 ST-JEAN-BAPTISTE,
CANADA G2E 5E8
CA

00-50-77 (hex) PROLIFIC TECHNOLOGY, INC.
005077 (base 16) PROLIFIC TECHNOLOGY, INC.
6F 1, LANE 51, SEC 1
100
TW

00-50-6C (hex) Beijer Electronics Products AB
00506C (base 16) Beijer Electronics Products
AB
Box 426
SE-201 24 Malmoe
SE

00-50-44 (hex) ASACA CORPORATION
005044 (base 16) ASACA CORPORATION
420 CORPORATE CIRCLE, Unit H
GOLDEN CO 80401
US

00-50-0E (hex) CHROMATIS NETWORKS, INC.
00500E (base 16) CHROMATIS NETWORKS, INC.
3 BETHESDA METRO CENTER
BETHESDA MD 20814
US

00-50-33 (hex) MAYAN NETWORKS
005033 (base 16) MAYAN NETWORKS
3350 SCOTT BLVD. - BLDG. #9
SANTA CLARA CA 95054
US

00-50-45 (hex) RIOWORKS SOLUTIONS, INC.

005045 (base 16) RIOWORKS SOLUTIONS, INC.
4F, NO.28, LANE 583
TAIWAN TAIWAN R.O.C.
TW

00-50-2B (hex) GENRAD LTD.
00502B (base 16) GENRAD LTD.
ORION BUSINESS PARK
UNITED KINGDOM SK3 OXG
GB

00-50-EC (hex) OLICOM A/S
0050EC (base 16) OLICOM A/S
NYBROVEJ 114

DK

00-50-C9 (hex) MASPRO DENKOH CORP.
0050C9 (base 16) MASPRO DENKOH CORP.
ASADA NISSHIN AICHI

JP

00-50-69 (hex) PixStream Incorporated
005069
(base 16) PixStream Incorporated
180 COLUMBIA ST. W.
Ontario N2L 3L3
CA

00-50-4F (hex) OLENCOM ELECTRONICS
00504F (base 16) OLENCOM ELECTRONICS
SOLTAM INDUSTRIAL PARK
YOKNEAM 20692
IL

00-50-C0 (hex) GATAN, INC.
0050C0 (base 16) GATAN, INC.
5933 CORONADO LANE
PLEASANTON CA 94588
US

00-50-51 (hex) IWATSU ELECTRIC CO., LTD.
005051 (base 16) IWATSU ELECTRIC CO., LTD.
7-41, KUGAYAMA 1-CHOME
SUGINAMI-KU, TOKYO 168-8501
JP

00-50-BB (hex) CMS TECHNOLOGIES
0050BB (base 16) CMS TECHNOLOGIES
13955 FARMINGTON RAOD
LIVONIA MI 48154
US

00-50-62 (hex) KOUWELL ELECTRONICS CORP. **
005062 (base 16) KOUWELL ELECTRONICS CORP. **
7F, NO.99, NAN-KANG ROAD

TW

00-50-D5 (hex) AD SYSTEMS CORP.
0050D5 (base 16) AD SYSTEMS CORP.
1-4-1, NAKACHO, MUSASHINO CITY
TOKYO 180-0006
JP

00-50-F3 (hex) GLOBAL NET INFORMATION CO., Ltd.
0050F3
(base 16) GLOBAL NET INFORMATION CO., Ltd.
NORTH TOWER- RM 1305
GUANG ZHOU 510095
CN

00-50-BE (hex) FAST MULTIMEDIA AG
0050BE (base 16) FAST MULTIMEDIA AG
RUEDESHEIMERSTR. 11-13
80686 MUNICH
DE

00-50-6F (hex) G-CONNECT
00506F (base 16) G-CONNECT
P.O. BOX 2200
HERZLIYA 46120
IL

00-50-07 (hex) SIEMENS TELECOMMUNICATION SYSTEMS LIMITED
005007 (base 16) SIEMENS TELECOMMUNICATION SYSTEMS LIMITED
NO. 90, SEC. 1, CHIEN KUO NORTH ROAD
TAIPEI
TW

00-50-22 (hex) ZONET TECHNOLOGY, INC.
005022 (base 16) ZONET TECHNOLOGY, INC.
830 ROOM, BLDG. 53, 195, SEC.4
HSINCHA
TW

00-50-40 (hex) Panasonic Electric Works Co., Ltd.
005040 (base 16) Panasonic Electric Works Co., Ltd.
Tsu-Factory, 1668, Fujikata
Tsu-shi Mie-ken 514-8555
JP

00-50-F8 (hex) ENTREGA TECHNOLOGIES, INC.
0050F8 (base 16) ENTREGA TECHNOLOGIES, INC.
25691 ATLANTIC OCEAN DRIVE
LAKE
FOREST CA 92630
US

00-50-42 (hex) SCI MANUFACTURING SINGAPORE PTE, LTD.
005042 (base 16) SCI MANUFACTURING SINGAPORE PTE, LTD.
3 DEPOT CLOSE
SINGAPORE 109840
SG

00-50-EB (hex) ALPHA-TOP CORPORATION
0050EB (base 16) ALPHA-TOP CORPORATION
19F., NO. 2, LANE 150
TAIPEI
TW

00-50-EF (hex) SPE Systemhaus GmbH
0050EF (base 16) SPE Systemhaus GmbH
WALDSTRASSE 7
63150 HEUSENSTAMM
DE

00-50-98 (hex) GLOBALOOP, LTD.
005098 (base 16) GLOBALOOP, LTD.
12 HASHARON ROAD
KFAR SABA 44269
IL

00-50-BC (hex) HAMMER STORAGE SOLUTIONS
0050BC (base 16) HAMMER STORAGE SOLUTIONS
8450 CENTRAL AVENUE
NEWARK CA 94560
US

00-90-71 (hex) Applied Innovation Inc.
009071 (base 16) Applied Innovation Inc.
5800 Innovation Drive
Dublin OH 43016-3271

US

00-90-18 (hex) ITO ELECTRIC INDUSTRY CO, LTD.
009018 (base 16) ITO ELECTRIC INDUSTRY CO, LTD.
4-26-12 MEIEKI NAKAMURA-KU
NAGOYA-CITY
AICHI 450-0002
JP

00-90-CD (hex) ENT-EMPRESA NACIONAL DE TELECOMMUNICACOES, S.A.
0090CD (base 16) ENT-EMPRESA NACIONAL DE TELECOMMUNICACOES, S.A.
R. ENG FREDERICO ULRICH - APARTADO 3081
Guardeiras - 4470 Moreira Maia
PT

00-90-D0 (hex) Thomson Telecom Belgium
0090D0 (base 16) Thomson Telecom Belgium
Prins Boudewijnlaan 47
B-2650 EDEGEM
BE

00-90-9B (hex) MARKEM-IMAJE
00909B (base 16) MARKEM-IMAJE
Frihamnen 16A
Gothenburg 417 55
SE

00-90-22 (hex) IVEX
009022 (base 16) IVEX
4295 INTERNATIONAL BLVD.
NORCROSS GA 30093
US

00-90-16 (hex) ZAC
009016 (base 16) ZAC
Stüvestraße 9
D-31141 Hildesheim
DE

00-90-FF (hex) TELLUS TECHNOLOGY INC.
0090FF (base 16) TELLUS TECHNOLOGY INC.
40990 ENCYCLOPEDIA CIR.
FREMONT CA 94538-2470
US

00-90-3E (hex) N.V. PHILIPS INDUSTRIAL ACTIVITIES
00903E (base 16) N.V. PHILIPS INDUSTRIAL

ACTIVITIES

B-3001 LEUVEN
BE

00-90-BA (hex) VALID NETWORKS, INC.
0090BA (base 16) VALID NETWORKS, INC.
6 CROMWELL #102
IRVINE CA 92618
US

00-50-7D (hex) IFP
00507D (base 16) IFP
LESSINGSTR. 4
D-78315 RADOLFZELL
DE

00-50-97 (hex) MMC-EMBEDDED COMPUTERTECHNIK GmbH
005097 (base 16) MMC-EMBEDDED COMPUTERTECHNIK GmbH
ULRICHSBERGERSTR. 17
D-94469 DEGGENDORF
DE

00-50-10 (hex) NovaNET Learning, Inc.
005010 (base 16) NovaNET Learning, Inc.
125 W. CHURCH STREET-STE. #300
CHAMPAIGN IL 61820
US

00-50-9A (hex) TAG ELECTRONIC SYSTEMS
00509A (base 16) TAG ELECTRONIC SYSTEMS
GENESIS BUSINESS PARK
WOKING, SURREY GU21 5RW
GB

00-90-D1 (hex) LEICHU ENTERPRISE CO., LTD.
0090D1 (base 16) LEICHU ENTERPRISE CO., LTD.
8F, NO. 203, PA-TEH ROAD, SEC.2

TW

00-90-46 (hex) DEXDYNE, LTD.
009046 (base 16) DEXDYNE, LTD.
15 MARKET PL.
GLOCESTERSHIRE
GL7 2PB
GB

00-90-DA (hex) DYNARC, INC.
0090DA (base 16) DYNARC, INC.
1887 LANDINGS DRIVE
MOUNTAIN VIEW CA 94043
US

00-90-E0 (hex) SYSTRAN CORP.
0090E0 (base 16) SYSTRAN CORP.
4126 LINDEN AVENUE
DAYTON OH 45432
US

00-90-94 (hex) OSPREY TECHNOLOGIES, INC.
009094 (base 16) OSPREY TECHNOLOGIES, INC.
600 AIRPORT BLVD. - STE. #900
MORRISVILLE NC 27560
US

00-90-B3 (hex) AGRANAT SYSTEMS
0090B3 (base 16) AGRANAT SYSTEMS
1345 MAIN STREET
WALTHAM MA 02154
US

00-90-5D (hex) NETCOM SICHERHEITSTECHNIK GMBH
00905D (base 16) NETCOM SICHERHEITSTECHNIK GMBH
BOPPSTRASSE 38

DE

00-90-FB (hex) PORTWELL, INC.
0090FB (base 16) PORTWELL, INC.
7F-4, NO. 160, SEC. 6
TAIPEI
TW

00-90-4F (hex) ABB POWER T&D COMPANY, INC.
00904F (base 16) ABB POWER T&D COMPANY, INC.
7036 SNOWDRIFT ROAD
ALLENTOWN PA 18106
US

00-90-60 (hex) SYSTEM CREATE
CORP.
009060 (base 16) SYSTEM CREATE CORP.
3-13-6 YOSHIKAWA BLD.
TOKYO
JP

00-90-13 (hex) SAMSAN CORP.
009013 (base 16) SAMSAN CORP.
ELECTRONICS & COMM DIVISION
Kangdong-Gu Seoul 134-050
KR

00-90-85 (hex) GOLDEN ENTERPRISES, INC.
009085 (base 16) GOLDEN ENTERPRISES, INC.
4450 WEST EAU GALLIE BLVD.
MELBOURNE FL 32934
US

00-90-DC (hex) TECO INFORMATION SYSTEMS
0090DC (base 16) TECO INFORMATION SYSTEMS
CO., LTD.
SAN JOSE CA 95134
US

00-90-E2 (hex) DISTRIBUTED PROCESSING TECHNOLOGY
0090E2 (base 16) DISTRIBUTED PROCESSING TECHNOLOGY
140 CANDACE DRIVE
ORLANDO FL 32751
US

00-10-A3 (hex) OMNITRONIX, INC.
0010A3 (base 16) OMNITRONIX, INC.
760 HARRISON STREET
SEATTLE WA 98109
US

00-10-AD (hex) SOFTRONICS USB, INC.
0010AD (base 16) SOFTRONICS USB, INC.
5085 LIST DRIVE
COLORADO SPRINGS CO 80919
US

00-10-A7 (hex) UNEX TECHNOLOGY CORPORATION
0010A7
(base 16) UNEX TECHNOLOGY CORPORATION
8F-5, #130, SZE WEI RD.,
HSINCHU
TW

00-10-D5 (hex) IMASDE CANARIAS, S.A.
0010D5 (base 16) IMASDE CANARIAS, S.A.
URB. EL CEBADAL
35008 LAS PALMAS G.C.

ES

00-10-55 (hex) FUJITSU MICROELECTRONICS, INC.
001055 (base 16) FUJITSU MICROELECTRONICS, INC.
3545 NORTH FIRST STREET
SAN JOSE CA 95134-1806
US

00-10-52 (hex) METTLER-TOLEDO (ALBSTADT) GMBH
001052 (base 16) METTLER-TOLEDO (ALBSTADT) GMBH
P.O. BOX 2 50
D-72423 ALBSTADT
DE

00-90-C7 (hex) ICOM INC.
0090C7 (base 16) ICOM INC.
6-9-16 KAMIHIGASHI
HIRANO-KU, OSAKA
JP

00-90-35 (hex) ALPHA TELECOM, INC.
009035 (base 16) ALPHA TELECOM, INC.
2F, NO.2, LI HSIN ROAD
HSIN-CHU
TW

00-90-F0 (hex) Harmonic Video Systems Ltd.
0090F0 (base 16) Harmonic Video Systems Ltd.
19 ALON HATAVOR STREET
CAESAREA Industrial Park 38900
IL

00-90-7A
(hex) Spectralink, Inc
00907A (base 16) Spectralink, Inc
2560 55th Street
BOULDER CO 80301
US

00-90-20 (hex) PHILIPS ANALYTICAL X-RAY B.V.
009020 (base 16) PHILIPS ANALYTICAL X-RAY B.V.
LELYWEG 1
7602 EA ALMELO
NL

00-90-0F (hex) KAWASAKI HEAVY INDUSTRIES, LTD
00900F (base 16) KAWASAKI HEAVY INDUSTRIES, LTD
ELEC. & CONTROL TECH CENTER

JP

00-90-EA (hex) ALPHA TECHNOLOGIES, INC.
0090EA (base 16) ALPHA TECHNOLOGIES, INC.
3767 ALPHA WAY
BELLINGHAM WA 98226
US

00-90-77 (hex) ADVANCED FIBRE COMMUNICATIONS
009077 (base 16) ADVANCED FIBRE COMMUNICATIONS
PO BOX #751239
PETALUMA CA 94975
US

00-90-99 (hex) ALLIED TELESIS, K.K.
009099 (base 16) ALLIED TELESIS, K.K.
NO. 2 TOC BUILDING, 7-21-11Nishi-Gotand
Shinagawa-Ku Tokyo 141
JP

00-90-A7 (hex) CLIENTEC CORPORATION
0090A7 (base 16) CLIENTEC CORPORATION
8175 S. VIRGINIA ST.
RENO NV 89511
US

00-90-5C
(hex) EDMI
00905C (base 16) EDMI
626 OLD GYMPIE ROAD
NARANGBA QLD 4504
AU

00-90-E3 (hex) AVEX ELECTRONICS INC.
0090E3 (base 16) AVEX ELECTRONICS INC.
4807 BRADFORD DRIVE
HUNTSVILLE AL 35805
US

00-90-A9 (hex) WESTERN DIGITAL
0090A9 (base 16) WESTERN DIGITAL
1599 NORTH BROADWAY
ROCHESTER MN 55906
US

00-90-3C (hex) ATLANTIC NETWORK SYSTEMS
00903C (base 16) ATLANTIC NETWORK SYSTEMS

IMMEUBLE Kennedy
33700 MERIGNAC
FR

00-90-55 (hex) PARKER HANNIFIN CORPORATION COMPUMOTOR DIVISION
009055 (base 16) PARKER HANNIFIN CORPORATION COMPUMOTOR DIVISION
5500 BUSINESS PARK DRIVE
ROHNERT PARK CA 94928
US

00-90-F3 (hex) ASPECT COMMUNICATIONS
0090F3 (base 16) ASPECT COMMUNICATIONS
1310 Ridder Park Drive
San Jose CA 95131-2313
US

00-90-53 (hex) DAEWOO ELECTRONICS CO., LTD.
009053 (base 16) DAEWOO ELECTRONICS CO., LTD.
DIT RESEARCH CENTER
CHUNG-GU
SEOUL 100-714
KR

00-10-5D (hex) Draeger Medical
00105D (base 16) Draeger Medical
Moislinger Allee 53-55
Luebeck D-23542
DE

00-10-2D (hex) HITACHI SOFTWARE ENGINEERING
00102D (base 16) HITACHI SOFTWARE ENGINEERING
5-79, ONOECHO, NAKA-KU
YOKOHAMA 231
JP

00-10-33 (hex) ACCESSLAN COMMUNICATIONS, INC.
001033 (base 16) ACCESSLAN COMMUNICATIONS, INC.
44 AIRPORT PARKWAY
SAN JOSE CA 95110
US

00-10-12 (hex) PROCESSOR SYSTEMS (I) PVT LTD
001012 (base 16) PROCESSOR SYSTEMS (I) PVT LTD
24 RICHMOND ROAD
BANGALORE 560 025
IN

00-10-15 (hex) OOmon Inc.

001015 (base 16) OOmon Inc.
PO BOX 8241
COBURG OR 97408
US

00-10-6B (hex) SONUS NETWORKS, INC.
00106B (base 16) SONUS NETWORKS, INC.
5 CARLISLE ROAD
WESTFORD MA 01886
US

00-10-C3 (hex) CSI-CONTROL SYSTEMS
0010C3 (base 16) CSI-CONTROL SYSTEMS
INTERNATIONAL
DALLAS TX 75229
US

00-10-78
(hex) NUERA COMMUNICATIONS, INC.
001078 (base 16) NUERA COMMUNICATIONS, INC.
10445 PACIFIC CENTER COURT
SAN DIEGO CA 92121
US

00-10-DD (hex) ENABLE SEMICONDUCTOR, INC.
0010DD (base 16) ENABLE SEMICONDUCTOR, INC.
1740 TECHNOLOGY DRIVE
SAN JOSE CA 95110
US

00-10-7A (hex) AmbiCom, Inc.
00107A (base 16) AmbiCom, Inc.
2450 SCOTT BLVD., #305
SANTA CLARA CA 95050
US

00-10-B9 (hex) MAXTOR CORP.
0010B9 (base 16) MAXTOR CORP.
2190 MILLER DRIVE
LONGMONT CO 80501-6744
US

00-10-91 (hex) NO WIRES NEEDED BV
001091 (base 16) NO WIRES NEEDED BV
P.O. BOX 343
3720 AH BILTHOVEN
NL

00-10-51 (hex) CMICRO CORPORATION
001051 (base 16) CMICRO CORPORATION
17-20-2 KAMINO-CHO
TAKAMATSU-SHI, KAGAWA 761
JP

00-10-37 (hex) CYQ've Technology Co., Ltd.
001037 (base 16) CYQ've Technology Co., Ltd.
COSMO BLDG. 10F, NO.1-7
SHINJUKU-KU, TOKYO 160
JP

00-10-1B
(hex) CORNET TECHNOLOGY, INC.
00101B (base 16) CORNET TECHNOLOGY, INC.
7F-4, NO. 46 CHUNG SHAN N.ROAD
SEC. 2, TAIPEI
TJ

00-10-DC (hex) MICRO-STAR INTERNATIONAL CO., LTD.
0010DC (base 16) MICRO-STAR INTERNATIONAL CO., LTD.
NO. 69, LI-DE ST., JUNG-HE CITY
Taipei Hsien
TW

00-10-0A (hex) WILLIAMS COMMUNICATIONS GROUP
00100A (base 16) WILLIAMS COMMUNICATIONS GROUP
ADVANCED TECHNOLOGIES
TULSA OK 74103
US

00-10-32 (hex) ALTA TECHNOLOGY
001032 (base 16) ALTA TECHNOLOGY
9500 SOUTH 500 WEST - STE #212
SANDY UT 84070
US

00-10-80 (hex) METAWAVE COMMUNICATIONS
001080 (base 16) METAWAVE COMMUNICATIONS
8700 148TH AVENUE N.E.
REDMOND WA 98052
US

00-10-F4 (hex) Vertical Communications
0010F4 (base 16) Vertical Communications
3979 Freedom Circle #400
Santa Clara CA 95054-1247
US

00-10-77 (hex) SAF DRIVE SYSTEMS, LTD.
001077 (base 16) SAF DRIVE
SYSTEMS, LTD.
88 ARDELT AVE.
KITCHENER, ONTARIO N2C 2C9
CA

00-10-B3 (hex) NOKIA MULTIMEDIA TERMINALS
0010B3 (base 16) NOKIA MULTIMEDIA TERMINALS
NOKIA HOME COMMUNICATIONS
SE-583 35 LINKOPING
SE

00-10-1E (hex) MATSUSHITA ELECTRONIC INSTRUMENTS CORP.
00101E (base 16) MATSUSHITA ELECTRONIC INSTRUMENTS CORP.
23-9 KIYOHARA INDUSTRIAL PARK
UTSUNOMIYA Tochigi 321-32
JP

00-10-4D (hex) SURTEC INDUSTRIES, INC.
00104D (base 16) SURTEC INDUSTRIES, INC.
NO.11, ALLEY 16, LANE 337
TAIPEI
TW

00-E0-6E (hex) FAR SYSTEMS S.p.A.
00E06E (base 16) FAR SYSTEMS S.p.A.
VIA F. ZENI 8
3868 ROVERETO (TN)
IT

00-E0-6D (hex) COMPUWARE CORPORATION
00E06D (base 16) COMPUWARE CORPORATION
One Campus Martius
Detroit MI 48226
US

00-E0-BB (hex) NBX CORPORATION
00E0BB (base 16) NBX CORPORATION
100 BRICKSTONE SQUARE
ANDOVER MA 01810
US

00-E0-8A (hex) GEC AVERY,
LTD.
00E08A (base 16) GEC AVERY, LTD.
FOUNDRY LANE

WEST MIDLANDS, B66 2LP England
GB

00-E0-7F (hex) LOGISTISTEM s.r.l.
00E07F (base 16) LOGISTISTEM s.r.l.
VIA PANCIATICHI 94/18
50127 FIRENZE
IT

00-E0-13 (hex) EASTERN ELECTRONIC CO., LTD.
00E013 (base 16) EASTERN ELECTRONIC CO., LTD.
NO. 4, SHIN-LONG ROAD,
TAO-YUAN
TW

00-E0-86 (hex) Emerson Network Power, Avocent Division
00E086 (base 16) Emerson Network Power, Avocent Division
4991 Corporate Drive
HUNTSVILLE AL 35805
US

00-E0-1B (hex) SPHERE COMMUNICATIONS, INC.
00E01B (base 16) SPHERE COMMUNICATIONS, INC.
2 ENERGY DRIVE
LAKE BLUFF IL 60044
US

00-E0-FD (hex) A-TREND TECHNOLOGY CO., LTD.
00E0FD (base 16) A-TREND TECHNOLOGY CO., LTD.
10F, NO. 75, HSIN TAI WU RD.,
TAIPEI HSIEN 221
TJ

00-E0-BD (hex) INTERFACE SYSTEMS, INC.
00E0BD (base 16) INTERFACE SYSTEMS, INC.
5855 INTERFACE DRIVE
ANN
ARBOR MI 48103-9515
US

00-E0-38 (hex) PROXIMA CORPORATION
00E038 (base 16) PROXIMA CORPORATION
9440 CARROLL PARK DRIVE
SAN DIEGO CA 92121-2298
US

00-E0-9C (hex) MII
00E09C (base 16) MII

LE parc du MOULIN
F95650 PUISEUX-POTOISE
FR

00-E0-E9 (hex) DATA LABS, INC.
00E0E9 (base 16) DATA LABS, INC.
444 NORTH FREDERICK AVE.
GAITHERSBURG MD 20877
US

00-E0-0C (hex) MOTOROLA
00E00C (base 16) MOTOROLA
5401 N. BEACH ST. S243
FT. WORTH TX 76137
US

00-E0-0A (hex) DIBA, INC.
00E00A (base 16) DIBA, INC.
3355 EDISON WAY
MENLO PARK CA 94025
US

00-E0-C4 (hex) HORNER ELECTRIC, INC.
00E0C4 (base 16) HORNER ELECTRIC, INC.
1521 E. WASHINGTON ST.
INDIANAPOLIS IN 46201
US

00-E0-C5 (hex) BCOM ELECTRONICS INC.
00E0C5 (base 16) BCOM ELECTRONICS INC.
8 FL, NO. 64, AN HO ROAD, SEC. 2
TAIPEI
TW

00-E0-EE (hex) MAREL HF
00E0EE (base 16) MAREL
HF
Austurhraun 9
Gardabaer 210
IS

00-E0-8E (hex) UTSTARCOM
00E08E (base 16) UTSTARCOM
33 WOOD AVE. SOUTH
ISELIN NJ 08830
US

00-E0-3F (hex) JATON CORPORATION

00E03F (base 16) JATON CORPORATION
556 SOUTH MILPITAS BLVD.
MILPITAS CA 95035
US

00-E0-D4 (hex) EXCELLENT COMPUTER
00E0D4 (base 16) EXCELLENT COMPUTER
551, M.K.N. ROAD
ALANDUR, CHENNAI 600016
IN

00-E0-E8 (hex) GRETACODER Data Systems AG
00E0E8 (base 16) GRETACODER Data Systems AG
ALTHARDSTRASSE 150
CH-8105 REGENSDORF
CH

00-E0-16 (hex) RAPID CITY COMMUNICATIONS
00E016 (base 16) RAPID CITY COMMUNICATIONS
555 CLYDE AVE.
MOUNTAIN VIEW CA 94043
US

00-E0-EA (hex) INNOVAT COMMUNICATIONS, INC.
00E0EA (base 16) INNOVAT COMMUNICATIONS, INC.
1257 N. PLANO ROAD
RICHARDSON TX 75081
US

00-E0-64 (hex) SAMSUNG ELECTRONICS
00E064 (base 16) SAMSUNG ELECTRONICS
99 W. TASMAN
DRIVE
SAN JOSE CA 95134
US

00-E0-69 (hex) JAYCOR
00E069 (base 16) JAYCOR
9775 TOWNE CENTRE DRIVE
SAN DIEGO CA 92121
US

00-E0-A4 (hex) ESAOTE S.p.A.
00E0A4 (base 16) ESAOTE S.p.A.
via di CACIOLLE, 15
50127 FLORENCE
IT

00-E0-DE (hex) DATAX NV
00E0DE (base 16) DATAX NV
RINGLAAN 51
B-2600 BERCHEM
BE

00-E0-05 (hex) TECHNICAL CORP.
00E005 (base 16) TECHNICAL CORP.
22-6 MINAMI SENGENCHO
KANAGAWA
JP

00-E0-C1 (hex) MEMOREX TELEX JAPAN, LTD.
00E0C1 (base 16) MEMOREX TELEX JAPAN, LTD.
YAESUGUCHI KAIKAN, 1-7-20
TOKYO 103
JP

00-E0-84 (hex) COMPULITE R&D
00E084 (base 16) COMPULITE R&D
3 HAROSHET STR. NEW IND. ZONE
RAMAT-HASHARON 47279
IL

00-E0-A5 (hex) ComCore Semiconductor, Inc.
00E0A5 (base 16) ComCore Semiconductor, Inc.
4505 LAS VIRGENES, Suite 202
CALABASAS CA 91302
US

00-E0-15 (hex) HEIWA CORPORATION
00E015
(base 16) HEIWA CORPORATION
2-3014-8, HIROSAWA-CHO
GUNMA PREF. 376
JP

00-E0-96 (hex) SHIMADZU CORPORATION
00E096 (base 16) SHIMADZU CORPORATION
1, NISHINOKYO-KUWABARACHO
NAKAGYO-KU, KYOTO 604
US

00-E0-17 (hex) EXXACT GmbH
00E017 (base 16) EXXACT GmbH
RHEINSTRASE 7
D-41836 HUCKELHOVEN
DE

00-E0-C9 (hex) AutomatedLogic Corporation
00E0C9 (base 16) AutomatedLogic Corporation
1150 ROBERTS BOULEVARD
KENNESAW GA 30144-3618
US

00-E0-A9 (hex) FUNAI ELECTRIC CO., LTD.
00E0A9 (base 16) FUNAI ELECTRIC CO., LTD.
7-1, NAKAGAITO 7-CHOME, DAITO
OSAKA 574
JP

00-60-7F (hex) AURORA TECHNOLOGIES, INC.
00607F (base 16) AURORA TECHNOLOGIES, INC.
176 SECOND AVENUE
WALTHAM MA 02154
US

00-E0-29 (hex) STANDARD MICROSYSTEMS CORP.
00E029 (base 16) STANDARD MICROSYSTEMS CORP.
6 HUGHES
IRVINE CA 92718
US

00-60-A5 (hex) PERFORMANCE TELECOM CORP.
0060A5
(base 16) PERFORMANCE TELECOM CORP.
10 CARLSON ROAD
ROCHESTER NY 14610-1021
US

00-60-A1 (hex) VPNet, Inc.
0060A1 (base 16) VPNet, Inc.
555 N. MATHILDA AVE.,-STE #110
SUNNYVALE CA 94086
US

00-60-27 (hex) Superior Modular Products
006027 (base 16) Superior Modular Products
General Technology Division
MELBOURNE FL 32940
US

00-60-BC (hex) KeunYoung Electronics & Communication Co., Ltd.
0060BC (base 16) KeunYoung Electronics & Communication Co., Ltd.
325-76, DAEHEUNG-DONG, MAPO-GU,
SEOUL

KR

00-60-61 (hex) WHISTLE COMMUNICATIONS CORP.
006061 (base 16) WHISTLE COMMUNICATIONS CORP.
110 MARSH DRIVE-STE #100
FOSTER CITY CA 94404
US

00-60-74 (hex) QSC LLC
006074 (base 16) QSC LLC
1675 MACARTHUR BLVD
COSTA MESA CA 92626
US

00-60-76 (hex) SCHLUMBERGER TECHNOLOGIES RETAIL PETROLEUM SYSTEMS
006076 (base 16) SCHLUMBERGER TECHNOLOGIES RETAIL PETROLEUM SYSTEMS
825-M
GREENBRIER CIRCLE
CHESAPEAKE VA 23320
US

00-60-EA (hex) StreamLogic
0060EA (base 16) StreamLogic
21329 NORDHOFF STREET
CHATSWORTH CA 91311
US

00-60-29 (hex) CARY PERIPHERALS INC.
006029 (base 16) CARY PERIPHERALS INC.
190 COLONNADE ROAD S, UNIT 9
NEPEAN, ONTARIO K2E 7J5
CA

00-60-FC (hex) CONSERVATION THROUGH INNOVATION LTD.
0060FC (base 16) CONSERVATION THROUGH INNOVATION LTD.
1040 WHIPPLE ST.- STE. #225
PRESCOTT AZ 86301
US

00-60-18 (hex) STELLAR ONE CORPORATION
006018 (base 16) STELLAR ONE CORPORATION
500 108TH AVE. NE--STE. #2200
BELLEVUE WA 98004
US

00-60-F9 (hex) DIAMOND LANE COMMUNICATIONS
0060F9 (base 16) DIAMOND LANE COMMUNICATIONS
1310 REDWOOD WAY - STE.

PETALUMA CA 94954
US

00-60-B6 (hex) LAND COMPUTER CO., LTD.
0060B6 (base 16) LAND COMPUTER CO., LTD.
7-4-17 NISHINAKAJIMA
YODOGAWAKU 532
JP

00-60-6C (hex) ARESCOM
00606C
(base 16) ARESCOM
2833 JUNCTION AVE. - STE #206
SAN JOSE CA 95134
US

00-60-1B (hex) MESA ELECTRONICS
00601B (base 16) MESA ELECTRONICS
1323 61ST STREET
EMERYVILLE CA 94608-2117
US

00-60-2E (hex) CYCLADES CORPORATION
00602E (base 16) CYCLADES CORPORATION
41934 CHRISTY STREET
FREMONT CA 94538
US

00-60-E3 (hex) ARBIN INSTRUMENTS
0060E3 (base 16) ARBIN INSTRUMENTS
3206 LONGMIRE DRIVE
COLLEGE STATION TX 77845
US

00-60-71 (hex) MIDAS LAB, INC.
006071 (base 16) MIDAS LAB, INC.
4 KATAMACHI,
TOKYO 160
JP

00-60-D4 (hex) ELDAT COMMUNICATION LTD.
0060D4 (base 16) ELDAT COMMUNICATION LTD.
10 HAKISHON STREET
BNEI-BRAK 51203
IL

00-60-A4 (hex) GEW Technologies (PTY)Ltd
0060A4 (base 16) GEW Technologies (PTY)Ltd

BOX 912-561
SILVERTON 0127
ZA

00-60-64 (hex) NETCOMM LIMITED
006064 (base 16) NETCOMM LIMITED
PO BOX 379
NORTH
RYDE, NSW, 2113
AU

00-60-C5 (hex) ANCOT CORP.
0060C5 (base 16) ANCOT CORP.
115 CONSTITUTION DR.
MENLO PARK CA 94025
US

00-60-A9 (hex) GESYTEC MBH
0060A9 (base 16) GESYTEC MBH
PASCALSTRASSE 6
D 52076 AACHEN
DE

00-60-F2 (hex) LASERGRAPHICS, INC.
0060F2 (base 16) LASERGRAPHICS, INC.
20 ADA
IRVINE CA 92718
US

00-60-C3 (hex) NETVISION CORPORATION
0060C3 (base 16) NETVISION CORPORATION
MS# 1A
RONKONKOMA NY 11779
US

00-A0-5A (hex) KOFAX IMAGE PRODUCTS
00A05A (base 16) KOFAX IMAGE PRODUCTS
3 JENNER STREET
IRVINE CA 92718-3807
US

00-A0-52 (hex) STANILITE ELECTRONICS PTY. LTD
00A052 (base 16) STANILITE ELECTRONICS PTY. LTD
424, LANE COVE ROAD
NORTH RYDE NSW 2113
AU

00-A0-5E (hex) MYRIAD LOGIC INC.

00A05E (base 16) MYRIAD LOGIC INC.
1109 SPRING STREET
SILVER SPRING MD 20910
US

00-A0-95 (hex) ACACIA NETWORKS, INC.
00A095
(base 16) ACACIA NETWORKS, INC.
831 WOBURN STREET
WILMINGTON MA 01887
US

00-A0-F2 (hex) INFOTEK COMMUNICATIONS, INC.
00A0F2 (base 16) INFOTEK COMMUNICATIONS, INC.
111 ANZA BLVD., #203
BURLINGAME CA 94010
US

00-A0-53 (hex) COMPACT DEVICES, INC.
00A053 (base 16) COMPACT DEVICES, INC.
16795 LARK AVENUE
LOS GATOS CA 95030
US

00-A0-69 (hex) Symmetricom, Inc.
00A069 (base 16) Symmetricom, Inc.
3750 Westwind Blvd.
Santa Rosa CA 95403
US

00-A0-7A (hex) ADVANCED PERIPHERALS TECHNOLOGIES, INC.
00A07A (base 16) ADVANCED PERIPHERALS TECHNOLOGIES, INC.

FUJISAWA-SHI, KANAGAWA-KEN 251
JP

00-A0-4E (hex) VOELKER TECHNOLOGIES, INC.
00A04E (base 16) VOELKER TECHNOLOGIES, INC.
22 NEW BOSTON COURT
DANVILLE CA 94526
US

00-60-82 (hex) NOVALINK TECHNOLOGIES, INC.
006082 (base 16) NOVALINK TECHNOLOGIES, INC.
48511 WARM SPRINGS BLVD. #208
FREMONT CA 94539
US

00-60-E7
(hex) RANDATA
0060E7 (base 16) RANDATA
PO BOX 209
HAWTHORN VIC 3122
AU

00-60-54 (hex) CONTROLWARE GMBH
006054 (base 16) CONTROLWARE GMBH
WALDSTRASSE 92
63128 DIETZENBACH
DE

00-60-C2 (hex) MPL AG
0060C2 (base 16) MPL AG
Taefernstrasse 20
CH-5405 Daettwil
CH

00-60-9B (hex) AstroNova, Inc
00609B (base 16) AstroNova, Inc
600 EAST GREENWICH AVE.
WEST WARWICK RI 02893
US

00-60-DB (hex) NTP ELEKTRONIK A/S
0060DB (base 16) NTP ELEKTRONIK A/S
KNAPHOLM 7
DK-2730 HERLEV
DK

00-60-52 (hex) PERIPHERALS ENTERPRISE CO., Ltd.
006052 (base 16) PERIPHERALS ENTERPRISE CO., Ltd.
3F, NO.10, ALLEY 6, LANE 45
TAIPEI
TW

00-A0-DF (hex) STS TECHNOLOGIES, INC.
00A0DF (base 16) STS TECHNOLOGIES, INC.
13765 ST. CHARLES ROCK RD.
BRIDGETON MO 63044
US

00-A0-94 (hex) COMSAT CORPORATION
00A094 (base 16) COMSAT CORPORATION
22300
COMSAT DRIVE
CLARKSBURG MD 20871-9475

US

00-A0-EF (hex) LUCIDATA LTD.
00A0EF (base 16) LUCIDATA LTD.
LUCIDATA HOUSE
GREAT SHELFORD CAMBBRIDGE CB2 5HA
GB

00-60-B2 (hex) PROCESS CONTROL CORP.
0060B2 (base 16) PROCESS CONTROL CORP.
6875 MIMMS DRIVE
ATLANTA GA 30340
US

00-60-81 (hex) TV/COM INTERNATIONAL
006081 (base 16) TV/COM INTERNATIONAL
16516 VIA ESPRILLO
SAN DIEGO CA 92127
US

00-A0-05 (hex) DANIEL INSTRUMENTS, LTD.
00A005 (base 16) DANIEL INSTRUMENTS, LTD.
TROLLSTRASSE 33
CH-8400 WINTERTHUR
CH

00-60-D9 (hex) TRANSYS NETWORKS INC.
0060D9 (base 16) TRANSYS NETWORKS INC.
3403 GRIFFITH
ST. LAURENT, QUEBEC H4T 1W5
CA

00-60-1F (hex) STALLION TECHNOLOGIES
00601F (base 16) STALLION TECHNOLOGIES
33 WOODSTOCK ROAD
TOOWONG Q-L-D- 4066
AU

00-60-0A (hex) SORD COMPUTER CORPORATION
00600A (base 16) SORD COMPUTER CORPORATION
20-7,
MASAGO 5-CHOME
CHIBA 261
JP

00-60-A8 (hex) TIDOMAT AB
0060A8 (base 16) TIDOMAT AB

S-12089 STOCKHOLM
SE

00-A0-66 (hex) ISA CO., LTD.
00A066 (base 16) ISA CO., LTD.
SHINJUKU LAMBDAX BLDG. 5F.,

JP

00-A0-AB (hex) NETCS INFORMATIONSTECHNIK GMBH
00A0AB (base 16) NETCS INFORMATIONSTECHNIK GMBH
KATHARINENSTRASSE 17-18

DE

00-A0-D8 (hex) SPECTRA - TEK
00A0D8 (base 16) SPECTRA - TEK
OUTGANG LANE
ENGLAND Y018 FJA
GB

00-A0-80 (hex) Tattile SRL
00A080 (base 16) Tattile SRL
4000 Executive Parkway
San Ramon CA 94583
US

00-A0-2B (hex) TRANSITIONS RESEARCH CORP.
00A02B (base 16) TRANSITIONS RESEARCH CORP.
SHELTER ROCK LANE
DANBURY CT 06810
US

00-A0-E8 (hex) REUTERS HOLDINGS PLC
00A0E8 (base 16) REUTERS HOLDINGS PLC
85, FLEET STREET
ENGLAND
GB

00-A0-08 (hex) NETCORP
00A008 (base 16) NETCORP
8 PLACE OF COMMERCE--STE
#200
CANADA J4W 3H2
CA

00-A0-FD (hex) SCITEX DIGITAL PRINTING, INC.
00A0FD (base 16) SCITEX DIGITAL PRINTING, INC.

3100 RESEARCH BLVD.
DAYTON OH 45420
US

00-A0-0F (hex) Broadband Technologies
00A00F (base 16) Broadband Technologies
P.O. Box 13737
Research Triangle Park, NC 27709-3737
US

00-A0-02 (hex) LEEDS & NORTHRUP AUSTRALIA PTY LTD
00A002 (base 16) LEEDS & NORTHRUP AUSTRALIA PTY LTD
PO BOX 4009
EIGHT MILE PLAINS QLD 4113
AU

00-A0-E4 (hex) OPTIQUEST
00A0E4 (base 16) OPTIQUEST
20490 BUSINESS PARKWAY
WALNUT CA 91789
US

00-A0-EE (hex) NASHOBA NETWORKS
00A0EE (base 16) NASHOBA NETWORKS
9-11 GOLDSMITH ST.
LITTLETON MA 01460
US

00-A0-DD (hex) AZONIX CORPORATION
00A0DD (base 16) AZONIX CORPORATION
900 MIDDLESEX TURNPIKE
BILLERICA MA 01821
US

00-A0-C3 (hex) UNICOMPUTER GMBH
00A0C3 (base 16) UNICOMPUTER GMBH
LIMBURGER
STRASSE 48

DE

00-A0-0A (hex) Airspan
00A00A (base 16) Airspan
Unitronics Building, Arava Street, Airport City
70100
IL

00-A0-67 (hex) NETWORK SERVICES GROUP

00A067 (base 16) NETWORK SERVICES GROUP
3421 COMMISSION COURT-STE #202
WOODBRIDGE VA 22192
US

00-A0-E0 (hex) TENNYSON TECHNOLOGIES PTY LTD
00A0E0 (base 16) TENNYSON TECHNOLOGIES PTY LTD
14 BUSINESS PARK DRIVE
VICTORIA - 3168
AU

00-A0-99 (hex) K-NET LTD.
00A099 (base 16) K-NET LTD.
SADDLERS HOUSE
YATELEY, SURREY GU17 7RX
GB

00-A0-EC (hex) TRANSMITTON LTD.
00A0EC (base 16) TRANSMITTON LTD.
SMISBY ROAD
LEICESTERSHIRE LE65 2UG
GB

00-A0-28 (hex) CONNER PERIPHERALS
00A028 (base 16) CONNER PERIPHERALS
3061 ZANKER ROAD
SAN JOSE CA 95134-2128
US

00-A0-9E (hex) ICTV
00A09E (base 16) ICTV
14600 WINCHESTER BLVD.
LOS GATOS CA 95030
US

00-A0-20 (hex) CITICORP/TTI
00A020
(base 16) CITICORP/TTI
3100 OCEAN PARK BLVD.
SANTA MONICA CA 90405
US

00-A0-FA (hex) Marconi Communication GmbH
00A0FA (base 16) Marconi Communication GmbH
Gerberstrasse 33

DE

00-A0-CB (hex) ARK TELECOMMUNICATIONS, INC.
00A0CB (base 16) ARK TELECOMMUNICATIONS, INC.
124 CARMEN LANE--SUITE
SANTA MARIA CA 93454
US

00-A0-50 (hex) CYPRESS SEMICONDUCTOR
00A050 (base 16) CYPRESS SEMICONDUCTOR
198 Champion Ct
SAN JOSE CA 95134
US

00-A0-CE (hex) Ecessa
00A0CE (base 16) Ecessa
2800 Campus Drive
Plymouth MN 55441
US

00-A0-09 (hex) WHITETREE NETWORK
00A009 (base 16) WHITETREE NETWORK
TECHNOLOGIES, INC.
PALO ALTO CA 94306
US

00-A0-0C (hex) KINGMAX TECHNOLOGY, INC.
00A00C (base 16) KINGMAX TECHNOLOGY, INC.
2FL., NO. 4, LANE 902, SEC.2

TW

00-A0-BB (hex) HILAN GMBH
00A0BB (base 16) HILAN GMBH
HAID-UND-NEU-STRASSE 7

DE

00-A0-91 (hex) APPLICOM INTERNATIONAL
00A091 (base 16) APPLICOM INTERNATIONAL
43, RUE MAZAGRAN

FR

00-A0-A5 (hex) TEKNOR MICROSYSTEME, INC.
00A0A5 (base 16) TEKNOR MICROSYSTEME, INC.
616 CURE BOIVIN
J7G 2A7
CA

00-20-86 (hex) MICROTECH ELECTRONICS LIMITED
002086 (base 16) MICROTECH ELECTRONICS LIMITED
LANCASTER ROAD
KINGDOM
GB

00-20-23 (hex) T.C. TECHNOLOGIES PTY. LTD
002023 (base 16) T.C. TECHNOLOGIES PTY. LTD
6/60 FAIRFORD RD.

AU

00-20-B2 (hex) GKD Gesellschaft Fur Kommunikation Und Datentechnik
0020B2 (base 16) GKD Gesellschaft Fur Kommunikation Und Datentechnik
SAARBURGER RING 10-12
68229 MANNHEIM
DE

00-20-52 (hex) RAGULA SYSTEMS
002052 (base 16) RAGULA SYSTEMS
4540 S. JUPITER DRIVE
SALT LAKE CITY UT 84124
US

00-20-FE (hex) TOPWARE INC. / GRAND COMPUTER
0020FE (base 16) TOPWARE INC. / GRAND COMPUTER
CORPORATION
TAIPEI
R.O.C.
TW

00-20-73 (hex) FUSION SYSTEMS CORPORATION
002073 (base 16) FUSION SYSTEMS CORPORATION
7600 STANDISH PLACE
ROCKVILLE MD 20855
US

00-20-B7 (hex) NAMAQUA COMPUTERWARE
0020B7 (base 16) NAMAQUA COMPUTERWARE
P.O. BOX 7155

ZA

00-20-E3 (hex) MCD KENCOM CORPORATION
0020E3 (base 16) MCD KENCOM CORPORATION
20950 CASTLE ROCK ROAD
LAGUNA BEACH CA 92651-1115

US

00-20-13 (hex) DIVERSIFIED TECHNOLOGY, INC.
002013 (base 16) DIVERSIFIED TECHNOLOGY, INC.
112 E. STATE STREET
RIDGELAND MS 39157
US

00-20-AB (hex) MICRO INDUSTRIES CORP.
0020AB (base 16) MICRO INDUSTRIES CORP.
8399 GREEN MEADOWS DR. N.
WESTERVILLE OH 43081
US

00-A0-25 (hex) REDCOM LABS INC.
00A025 (base 16) REDCOM LABS INC.
ONE REDCOM CENTER
VICTOR NY 14564-0995
US

00-A0-A2 (hex) B810 S.R.L.
00A0A2 (base 16) B810 S.R.L.
Via E. Lazzaretti 2/1
Reggio Emilia (RE)
42122
IT

00-A0-17 (hex) J B M CORPORATION
00A017 (base 16) J B M CORPORATION
10-1, ARAMOTOSHIN MACHI
577
JP

00-A0-34 (hex) AXEL
00A034 (base 16) AXEL
16, AVENUE DU QUEBEC

FR

00-A0-01 (hex) DRS Signal Solutions
00A001 (base 16) DRS Signal Solutions
700 Quince Orchard Road
Gaithersburg MD 20878-1794
US

00-A0-75 (hex) MICRON TECHNOLOGY, INC.
00A075 (base 16) MICRON TECHNOLOGY, INC.
8000 S. Federal Way

Boise ID 83707-0006
US

00-20-8D (hex) CMD TECHNOLOGY
00208D (base 16) CMD TECHNOLOGY
1 VANDERBILT
IRVINE CA 92718
US

00-20-DD (hex) Cybertec Pty Ltd
0020DD (base 16) Cybertec Pty Ltd
Unit 11, 41 Higginbotham Road
Gladesville NSW 2111
AU

00-20-E6 (hex) LIDKOPING MACHINE TOOLS AB
0020E6 (base 16) LIDKOPING MACHINE TOOLS AB
BOX 910

SE

00-A0-54 (hex) Private
00A054 (base 16) Private

00-A0-E7 (hex) CENTRAL DATA
CORPORATION
00A0E7 (base 16) CENTRAL DATA CORPORATION
1602 NEWTON DRIVE
CHAMPAIGN IL 61821
US

00-20-26 (hex) AMKLY SYSTEMS, INC.
002026 (base 16) AMKLY SYSTEMS, INC.
15801 ROCKFIELD BLVD., #P
IRVINE CA 92718
US

00-20-65 (hex) SUPERNET NETWORKING INC.
002065 (base 16) SUPERNET NETWORKING INC.
16 TOZERET HA'ARETZ ST.
TEL-AVIV 67891
IL

00-20-19 (hex) OHLER GMBH
002019 (base 16) OHLER GMBH
MAYBACHSTRASE 30
71332 WAIBLINGEN
DE

00-20-9E (hex) BROWN'S OPERATING SYSTEM SERVICES, LTD.
00209E (base 16) BROWN'S OPERATING SYSTEM SERVICES, LTD.
ST. AGNES HOUSE, CRESSWELL PK,
BLACKHEATH, London SE3 9RD
GB

00-20-35 (hex) IBM Corp
002035 (base 16) IBM Corp
3039 E Cornwallis Road
Research Triangle Park NC 27709-2195
US

00-20-7A (hex) WiSE Communications, Inc.
00207A (base 16) WiSE Communications, Inc.
130 KNOWLES DRIVE
LOS GATOS CA 95030
US

00-20-3E
(hex) LogiCan Technologies, Inc.
00203E (base 16) LogiCan Technologies, Inc.
150 KARL CLARK ROAD
EDMONTON, ALBERTA T6N 1E2
CA

00-20-58 (hex) ALLIED SIGNAL INC.
002058 (base 16) ALLIED SIGNAL INC.
ROUTE 46
TETERBORO NJ 07608
US

00-20-8E (hex) CHEVIN SOFTWARE ENG. LTD.
00208E (base 16) CHEVIN SOFTWARE ENG. LTD.
2 BOROUGHGATE, OTLEY,
LS21 3AL UNITED KINGDOM
GB

00-20-9B (hex) ERSAT ELECTRONIC GMBH
00209B (base 16) ERSAT ELECTRONIC GMBH
HAARBERGSTR. 61

DE

00-20-1C (hex) EXCEL, INC.
00201C (base 16) EXCEL, INC.
355 OLD PLYMOUTH ROAD
SAGAMORE BEACH MA 02562

US

00-20-7F (hex) KYOEI SANGYO CO., LTD.
00207F (base 16) KYOEI SANGYO CO., LTD.
DIR. & GEN'L MGR.IND. SYSTEMS
TOKYO
JP

00-20-5A (hex) COMPUTER IDENTICS
00205A (base 16) COMPUTER IDENTICS
5 SHAWMUT ROAD
CANTON MA 02021
US

00-20-00 (hex) LEXMARK INTERNATIONAL,
INC.
002000 (base 16) LEXMARK INTERNATIONAL, INC.
740 NEW CIRCLE ROAD
LEXINGTON KY 40550
US

00-20-1D (hex) KATANA PRODUCTS
00201D (base 16) KATANA PRODUCTS
THE STUDIO, QUARRY HILL BOX,
WILTSHIRE SN14 9HT
GB

00-20-46 (hex) CIPRICO, INC.
002046 (base 16) CIPRICO, INC.
2800 CAMPUS DRIVE--SUITE #60
PLYMOUTH MN 55441
US

00-20-5B (hex) Kentrox, LLC
00205B (base 16) Kentrox, LLC
20010 NW Tanasbourne Dr.
Hillsboro OR 97124
US

00-20-D3 (hex) OST (OUEST STANDARD TELEMATIQU
0020D3 (base 16) OST (OUEST STANDARD TELEMATIQU
RUE DU BAS VILLAGE

FR

00-20-F6 (hex) NET TEK AND KARLNET, INC.
0020F6 (base 16) NET TEK AND KARLNET, INC.
LITTLE STREAMS

UNITED KINGDOM
GB

00-20-B0 (hex) GATEWAY DEVICES, INC.
0020B0 (base 16) GATEWAY DEVICES, INC.
2440 STANWELL DRIVE
CONCORD CA 94520
US

00-20-2A (hex) N.V. DZINE
00202A (base 16) N.V. DZINE
KONING
LEOPOLD III LAAN 2

BE

00-20-83 (hex) PRESTICOM INCORPORATED
002083 (base 16) PRESTICOM INCORPORATED
3275, 1ST STREET, STE. #1
CANADA J3Y 8Y6
CA

00-20-C9 (hex) VICTRON BV
0020C9 (base 16) VICTRON BV
POB 31
THE
NL

00-20-77 (hex) KARDIOS SYSTEMS CORP.
002077 (base 16) KARDIOS SYSTEMS CORP.
26 N SUMMIT AVE.
GAITHERSBURG MD 20877
US

00-20-97 (hex) APPLIED SIGNAL TECHNOLOGY
002097 (base 16) APPLIED SIGNAL TECHNOLOGY
160 SOBRANTE WAY
SUNNYVALE CA 94086
US

00-C0-C9 (hex) ELSAG BAILEY PROCESS
00C0C9 (base 16) ELSAG BAILEY PROCESS
AUTOMATION
WICKLIFFE OH 44092
US

00-C0-48 (hex) BAY TECHNICAL ASSOCIATES
00C048 (base 16) BAY TECHNICAL ASSOCIATES

200 N. SECOND STREET
BAY ST. LOUIS MS 39520
US

00-C0-0E (hex) PSITECH, INC.
00C00E (base 16) PSITECH, INC.
18368 BANDILIER CIRCLE
FOUNTAIN VALLEY CA 92708
US

00-C0-31 (hex) DESIGN
RESEARCH SYSTEMS, INC.
00C031 (base 16) DESIGN RESEARCH SYSTEMS, INC.
925 E. EXECUTIVE PARK DR.
SALT LAKE CITY UT 84117
US

00-07-01 (hex) RACAL-DATACOM
000701 (base 16) RACAL-DATACOM
LAN INTERNETWORKING DIVISION
BOXBOROUGH MA 01719
US

00-C0-9C (hex) HIOKI E.E. CORPORATION
00C09C (base 16) HIOKI E.E. CORPORATION
81 Koizumi, Ueda, Nagano
Tokyo 386-1192
JP

00-20-08 (hex) CABLE & COMPUTER TECHNOLOGY
002008 (base 16) CABLE & COMPUTER TECHNOLOGY
1555 SO. SINCLAIR STREET
ANAHEIM CA 92806
US

00-C0-0B (hex) NORCONTROL A.S.
00C00B (base 16) NORCONTROL A.S.
P.O. BOX 1024

NO

00-C0-FD (hex) PROSUM
00C0FD (base 16) PROSUM
12 RUE SADI-CARNOT

FR

00-C0-76 (hex) I-DATA INTERNATIONAL A-S

00C076 (base 16) I-DATA INTERNATIONAL A-S
35-43 VADSTRUPVEJ

DK

00-C0-46 (hex) Blue Chip Technology Ltd
00C046 (base 16) Blue Chip Technology
Ltd
Chowley Oak Lane
Chester Cheshire CH3 9EX
GB

00-C0-14 (hex) TELEMATICS CALABASAS INT'L,INC
00C014 (base 16) TELEMATICS CALABASAS INT'L,INC
26630 AGOURA ROAD
CALABASAS CA 91302-1988
US

00-AA-3C (hex) OLIVETTI TELECOM SPA (OLTECO)
00AA3C (base 16) OLIVETTI TELECOM SPA (OLTECO)
10062 MILLER AVE.-STE.#204
CUPERTINO CA 95014
US

00-C0-11 (hex) INTERACTIVE COMPUTING DEVICES
00C011 (base 16) INTERACTIVE COMPUTING DEVICES
1735 TECHNOLOGY DRIVE-STE #720
SAN JOSE CA 95110
US

00-C0-3E (hex) FA. GEBR. HELLER GMBH
00C03E (base 16) FA. GEBR. HELLER GMBH
P.O. BOX 1428, DEP. EE7

DE

00-C0-60 (hex) ID SCANDINAVIA AS
00C060 (base 16) ID SCANDINAVIA AS
P.O. BOX 4227

NO

00-20-C6 (hex) NECTEC
0020C6 (base 16) NECTEC
RAMA VI ROAD

TH

00-C0-9E (hex) CACHE COMPUTERS, INC.
00C09E (base 16) CACHE COMPUTERS, INC.
46600 LANDING PARKWAY
FREMONT
CA 94538
US

00-C0-AC (hex) GAMBIT COMPUTER COMMUNICATIONS
00C0AC (base 16) GAMBIT COMPUTER COMMUNICATIONS
SOLTAM INDUSTRIAL PARK

IL

00-C0-34 (hex) TRANSACTION NETWORK
00C034 (base 16) TRANSACTION NETWORK
SERVICES, INC.
LANSING MI 48910-8356
US

00-C0-93 (hex) ALTA RESEARCH CORP.
00C093 (base 16) ALTA RESEARCH CORP.
614 SOUTH FEDERAL HIGHWAY
DEERFIELD BEACH FL 33441
US

00-C0-2C (hex) CENTRUM COMMUNICATIONS, INC.
00C02C (base 16) CENTRUM COMMUNICATIONS, INC.
2880 ZANKER ROAD-STE #108
SAN JOSE CA 95134
US

00-40-E7 (hex) ARNOS INSTRUMENTS & COMPUTER
0040E7 (base 16) ARNOS INSTRUMENTS & COMPUTER
SYSTEMS (GROUP) CO., LTD.
TSUEN WAN N.T.
HK

00-40-87 (hex) UBITREX CORPORATION
004087 (base 16) UBITREX CORPORATION
19TH FLOOR, 155 CARLTON STREET
CANADA R3C 3H8
CA

00-40-07 (hex) TELMAT INFORMATIQUE
004007 (base 16) TELMAT INFORMATIQUE
6
RUE DE L'INDUSTRIE

FR

00-40-7B (hex) SCIENTIFIC ATLANTA
00407B (base 16) SCIENTIFIC ATLANTA
Information Technology
Norcross GA 30091-6850
US

00-40-2C (hex) ISIS DISTRIBUTED SYSTEMS, INC.
00402C (base 16) ISIS DISTRIBUTED SYSTEMS, INC.
111 SOUTH CAYUGA STREET
ITHACA NY 14850
US

00-40-CC (hex) SILCOM MANUF'G TECHNOLOGY INC.
0040CC (base 16) SILCOM MANUF'G TECHNOLOGY INC.
5620 TIMBERLEA BOULEVARD
CANADA L4W 4M6
CA

00-C0-54 (hex) NETWORK PERIPHERALS, LTD.
00C054 (base 16) NETWORK PERIPHERALS, LTD.
4TH FLOOR, 17 BOWATER RD.
ENGLAND
GB

00-C0-22 (hex) LASERMASTER TECHNOLOGIES, INC.
00C022 (base 16) LASERMASTER TECHNOLOGIES, INC.
7156 SHADY OAK ROAD
EDEN PRAIRIE MN 55344
US

00-C0-25 (hex) DATAPRODUCTS CORPORATION
00C025 (base 16) DATAPRODUCTS CORPORATION
6219 DESOTO AVENUE
WOODLAND HILLS CA 91365-0746
US

00-C0-DF (hex) KYE Systems
Corp.
00C0DF (base 16) KYE Systems Corp.
No. 492 Sec 5, Chung Hsin Road
Taipei Hsien 241
TW

00-C0-F5 (hex) METACOMP, INC.
00C0F5 (base 16) METACOMP, INC.
10989 VIA FRONTERA

SAN DIEGO CA 92127
US

00-C0-91 (hex) JABIL CIRCUIT, INC.
00C091 (base 16) JABIL CIRCUIT, INC.
32275 MALLY ROAD
MADISON HEIGHTS MI 48071
US

00-C0-49 (hex) U.S. ROBOTICS, INC.
00C049 (base 16) U.S. ROBOTICS, INC.
8100 NORTH MCCORMICK BLVD.
SKOKIE IL 60076-2999
US

00-C0-9D (hex) DISTRIBUTED SYSTEMS INT'L, INC
00C09D (base 16) DISTRIBUTED SYSTEMS INT'L, INC
531 WEST ROOSEVLET RD, STE #2
WHEATON IL 60187
US

00-C0-E9 (hex) OAK SOLUTIONS, LTD.
00C0E9 (base 16) OAK SOLUTIONS, LTD.
BROADWAY HOUSE
ENGLAND
GB

00-C0-C5 (hex) SID INFORMATICA
00C0C5 (base 16) SID INFORMATICA
RUA DR. GERALDO CAMPOS MOREIRA

BR

00-C0-51 (hex) ADVANCED INTEGRATION RESEARCH
00C051
(base 16) ADVANCED INTEGRATION RESEARCH
2188 DEL FRANCO STREET
SAN JOSE CA 95131
US

00-C0-85 (hex) ELECTRONICS FOR IMAGING, INC.
00C085 (base 16) ELECTRONICS FOR IMAGING, INC.
2855 CAMPUS DRIVE
SAN MATEO CA 94403
US

00-C0-66 (hex) DOCUPOINT, INC.
00C066 (base 16) DOCUPOINT, INC.

2701 BAYVIEW DRIVE
FREMONT CA 94538
US

00-C0-2D (hex) FUJI PHOTO FILM CO., LTD.
00C02D (base 16) FUJI PHOTO FILM CO., LTD.
798 MIYANODAI KAISEI-MACHI

JP

00-C0-BD (hex) INEX TECHNOLOGIES, INC.
00C0BD (base 16) INEX TECHNOLOGIES, INC.
3350 SCOTT BLVD.
SANTA CLARA CA 95054
US

00-C0-88 (hex) EKF ELEKTRONIK GMBH
00C088 (base 16) EKF ELEKTRONIK GMBH
PHILIPP-REIS-STR. 4

DE

00-C0-97 (hex) ARCHIPEL SA
00C097 (base 16) ARCHIPEL SA
1 RUE DU BULLOZ

FR

00-C0-04 (hex) JAPAN BUSINESS COMPUTER CO.LTD
00C004 (base 16) JAPAN BUSINESS COMPUTER CO.LTD
1368 FUTOO-CHO,
KOHOKU-KU
222
JP

00-C0-AA (hex) SILICON VALLEY COMPUTER
00C0AA (base 16) SILICON VALLEY COMPUTER
441 N. WHISMAN RD., BLDG.#13
MT. VIEW CA 94043
US

00-C0-B2 (hex) NORAND CORPORATION
00C0B2 (base 16) NORAND CORPORATION
550 2ND STREET SE
CEDAR RAPIDS IA 52401
US

00-C0-FB (hex) ADVANCED TECHNOLOGY LABS

00C0FB (base 16) ADVANCED TECHNOLOGY LABS
22100 BOTHELL HIGHWAY S.E.
BOTHELL WA 98041-3003
US

00-40-CF (hex) STRAWBERRY TREE, INC.
0040CF (base 16) STRAWBERRY TREE, INC.
160 SOUTH WOLFE ROAD
SUNNYVALE CA 94086
US

00-40-77 (hex) MAXTON TECHNOLOGY CORPORATION
004077 (base 16) MAXTON TECHNOLOGY CORPORATION
4FK, 249, SEC. 3,
TAIWAN
TW

00-C0-2B (hex) GERLOFF GESELLSCHAFT FUR
00C02B (base 16) GERLOFF GESELLSCHAFT FUR
ELEKRONISCHE SYSTEMENTWICKLUNG

DE

00-40-5B (hex) FUNASSET LIMITED
00405B (base 16) FUNASSET LIMITED
ORCHARDS,
14 TOWNSEND
UNITED KINGDOM
GB

00-40-12 (hex) WINDATA, INC.
004012 (base 16) WINDATA, INC.
10 BEARFOOT ROAD
NORTHBORO MA 01532
US

00-40-D5 (hex) Sartorius Mechatronics T&H GmbH
0040D5 (base 16) Sartorius Mechatronics T&H GmbH
WEENDER LANDSTR: 94 - 108

DE

00-40-BF (hex) CHANNEL SYSTEMS INTERN'L INC.
0040BF (base 16) CHANNEL SYSTEMS INTERN'L INC.
93 SO. LA PATERA LANE
SANTA BARBARA CA 93117
US

00-40-1E (hex) ICC
00401E (base 16) ICC
8230 MONTGOMERY ROAD
CINCINNATI OH 45236
US

00-40-9A (hex) NETWORK EXPRESS, INC.
00409A (base 16) NETWORK EXPRESS, INC.
2200 GREEN ROAD - STE
ANN ARBOR MI 48170
US

00-40-94 (hex) SHOGRAPHICS, INC.
004094 (base 16) SHOGRAPHICS, INC.
1890 N. SHORELINE BLVD.
MOUNTAIN VIEW CA 94043
US

00-40-E2 (hex) MESA RIDGE TECHNOLOGIES, INC.
0040E2 (base 16) MESA RIDGE TECHNOLOGIES, INC.
6725 MESA RIDGE ROAD-STE#100
SAN
DIEGO CA 92121
US

00-40-C4 (hex) KINKEI SYSTEM CORPORATION
0040C4 (base 16) KINKEI SYSTEM CORPORATION
1-22-17, KAMIKITA, HIRANOKU

JP

00-40-22 (hex) KLEVER COMPUTERS, INC.
004022 (base 16) KLEVER COMPUTERS, INC.
1028 W. MAUDE AVENUE
SUNNYVALE CA 94086
US

00-40-74 (hex) CABLE AND WIRELESS
004074 (base 16) CABLE AND WIRELESS
COMMUNICATIONS, INC.
VIENNA VA 22182-3964
US

00-40-B8 (hex) IDEA ASSOCIATES
0040B8 (base 16) IDEA ASSOCIATES
29 DUNHAM ROAD
BILLERICA MA 01821
US

00-40-E8 (hex) CHARLES RIVER DATA SYSTEMS,INC
0040E8 (base 16) CHARLES RIVER DATA SYSTEMS,INC
983 CONCORD STREET
FRAMINGHAM MA 01701
US

00-40-C0 (hex) VISTA CONTROLS CORPORATION
0040C0 (base 16) VISTA CONTROLS CORPORATION
27825 FREMONT COURT
VALENCIA CA 91355
US

00-C0-10 (hex) HIRAKAWA HEWTECH CORP.
00C010 (base 16) HIRAKAWA HEWTECH CORP.
7F, BLDG.B, OMORI
BELLPORT

JP

00-C0-37 (hex) DYNATEM
00C037 (base 16) DYNATEM
15795 ROCKFIELD BLVD.
IRVINE CA 92718
US

00-40-83 (hex) TDA INDUSTRIA DE PRODUTOS
004083 (base 16) TDA INDUSTRIA DE PRODUTOS
ELETRONICOS S.A.

BR

00-40-5D (hex) STAR-TEK, INC.
00405D (base 16) STAR-TEK, INC.
71 LYMAN STREET
NORTHBORO MA 01532
US

00-40-08 (hex) A PLUS INFO CORPORATION
004008 (base 16) A PLUS INFO CORPORATION
5F, NO.2, LANE 235
TAIWAN TAIWAN R.O.C.
TW

00-40-B5 (hex) VIDEO TECHNOLOGY COMPUTERS LTD
0040B5 (base 16) VIDEO TECHNOLOGY COMPUTERS LTD
33/F., BLOCK #1,
N.T. HONG KONG

HK

00-40-73 (hex) BASS ASSOCIATES
004073 (base 16) BASS ASSOCIATES
435 TASSO STREET, STE. #325
PALO ALTO CA 94301
US

00-40-7D (hex) EXTENSION TECHNOLOGY CORP.
00407D (base 16) EXTENSION TECHNOLOGY CORP.
30 HOLLIS STREET
FRAMINGHAM MA 01701
US

00-40-4D (hex) TELECOMMUNICATIONS
TECHNIQUES
00404D (base 16) TELECOMMUNICATIONS TECHNIQUES
M/S
GERMANTOWN MD 20876
US

00-40-0D (hex) LANNET DATA COMMUNICATIONS,LTD
00400D (base 16) LANNET DATA COMMUNICATIONS,LTD
ATIDIM TECHNOLOG'L PARK, BG.#3

IL

00-80-D7 (hex) Fantum Engineering
0080D7 (base 16) Fantum Engineering

Rockwall TX 75087
US

00-80-7A (hex) AITECH SYSTEMS LTD.
00807A (base 16) AITECH SYSTEMS LTD.
3080 OLCOTT STREET
SANTA CLARA CA 95054
US

00-80-DC (hex) PICKER INTERNATIONAL
0080DC (base 16) PICKER INTERNATIONAL
595 MINER ROAD
CLEVELAND OH 44143
US

00-C0-A0 (hex) ADVANCE MICRO RESEARCH, INC.
00C0A0 (base 16) ADVANCE MICRO RESEARCH, INC.
2045 CORPORATE COURT

SAN JOSE CA 95131
US

00-40-19 (hex) AEON SYSTEMS, INC.
004019 (base 16) AEON SYSTEMS, INC.
8401 WASHINGTON PLACE NE
ALBUQUERQUE NM 87113
US

00-40-BE (hex) BOEING DEFENSE & SPACE
0040BE
(base 16) BOEING DEFENSE & SPACE
P.O. BOX 3999
SEATTLE WA 98124-2499
US

00-40-6E (hex) COROLLARY, INC.
00406E (base 16) COROLLARY, INC.
2802 KELVIN
IRVINE CA 92714
US

00-40-76 (hex) Sun Conversion Technologies
004076 (base 16) Sun Conversion Technologies
100 Commerce Boulevard
Quakertown PA 78951-2237
US

00-40-28 (hex) NETCOMM LIMITED
004028 (base 16) NETCOMM LIMITED
3 OLYMPIC BUSINESS CENTRE
UNITED KINGDOM
GB

00-40-CB (hex) LANWAN TECHNOLOGIES
0040CB (base 16) LANWAN TECHNOLOGIES
1566 LA PRADERA DRIVE
CAMPBELL CA 95008
US

00-40-B2 (hex) SYSTEMFORSCHUNG
0040B2 (base 16) SYSTEMFORSCHUNG
KONIGSTRASSE 33A

DE

00-40-E6 (hex) C.A.E.N.
0040E6 (base 16) C.A.E.N.

2, CHEMIN LATERAL

FR

00-40-10 (hex) SONIC SYSTEMS, INC.
004010 (base 16) SONIC SYSTEMS, INC.
575 PASTORIA NORTH AVENUE
SUNNYVALE CA 940867
US

00-40-CA
(hex) FIRST INTERNAT'L COMPUTER, INC
0040CA (base 16) FIRST INTERNAT'L COMPUTER, INC
FIC Building
Neihu Taipei 114 Taipei 114
TW

00-40-8B (hex) RAYLAN CORPORATION
00408B (base 16) RAYLAN CORPORATION
120 INDEPENDENCE DRIVE
MENLO PARK CA 94025
US

00-40-EF (hex) HYPERCOM, INC.
0040EF (base 16) HYPERCOM, INC.
2851 WEST KATHLEEN ROAD
PHOENIX AZ 85023
US

00-40-93 (hex) PAXDATA NETWORKS LTD.
004093 (base 16) PAXDATA NETWORKS LTD.
COMMUNICATIONS HOUSE,
ENGLAND
GB

00-40-85 (hex) SAAB INSTRUMENTS AB
004085 (base 16) SAAB INSTRUMENTS AB
P.O. BOX 1017

SE

00-40-23 (hex) LOGIC CORPORATION
004023 (base 16) LOGIC CORPORATION
3-14-10 MEIJI-SEIMEI BUILDING

JP

00-40-F0 (hex) MicroBrain,Inc.

0040F0 (base 16) MicroBrain,Inc.
Yuzan Bldg. 4F,
Aichi-gun AICHI 480-1117
JP

00-40-89 (hex) MEIDENSHA CORPORATION
004089 (base 16) MEIDENSHA
CORPORATION
FACTORY NO.4, 515 KAMINAKAMIZO

JP

00-40-55 (hex) METRONIX GMBH
004055 (base 16) METRONIX GMBH
NEUE KNOCHENHAUERSTRAßE 5
WEST
DE

00-40-27 (hex) SMC MASSACHUSETTS, INC.
004027 (base 16) SMC MASSACHUSETTS, INC.
25 WALKERS BROOK DRIVE
READING MA 01867
US

00-40-45 (hex) TWINHEAD CORPORATION
004045 (base 16) TWINHEAD CORPORATION
1537 CENTRE POINTE DRIVE
MILPITAS CA 95035
US

00-40-A4 (hex) ROSE ELECTRONICS
0040A4 (base 16) ROSE ELECTRONICS
P.O. BOX 742571
HOUSTON TX 77274-2571
US

00-80-80 (hex) DATAMEDIA CORPORATION
008080 (base 16) DATAMEDIA CORPORATION
7401 CENTRAL HIGHWAY
PENNSAUKEN NJ 08109
US

00-80-82 (hex) PEP MODULAR COMPUTERS GMBH
008082 (base 16) PEP MODULAR COMPUTERS GMBH
APFELSTRANGER STR. 16
WEST
DE

00-80-71 (hex) SAI TECHNOLOGY
008071 (base 16) SAI TECHNOLOGY
4224 CAMPUS POINT COURT
SAN
DIEGO CA 92121-1513
US

00-80-98 (hex) TDK CORPORATION
008098 (base 16) TDK CORPORATION
CORP. R&D DEPT. TECH. HDQTERS.
CHIBA-KEN 272,
JP

00-80-3F (hex) TATUNG COMPANY
00803F (base 16) TATUNG COMPANY
22 CHUNGSHANG N. RD. 3RD SEC.
TAIPEI TAIWAN R.O.C.
TW

00-80-E6 (hex) PEER NETWORKS, INC.
0080E6 (base 16) PEER NETWORKS, INC.
3350 SCOTT BLVD. BLDG. 14
SANTA CLARA CA 95054
US

00-80-E0 (hex) XTP SYSTEMS, INC.
0080E0 (base 16) XTP SYSTEMS, INC.
1900 STATE STREET , STE
SANTA BARBARA CA 93101
US

00-80-2B (hex) INTEGRATED MARKETING CO
00802B (base 16) INTEGRATED MARKETING CO
1360 BORDEAUX DRIVE
SUNNYVALE CA 94089
US

00-40-15 (hex) ASCOM INFRASYS AG
004015 (base 16) ASCOM INFRASYS AG
DPT. EASO 3726

CH

00-80-56 (hex) SPHINX Electronics GmbH & Co KG
008056 (base 16) SPHINX Electronics GmbH & Co KG
Tullastr. 3

DE

00-80-31 (hex) BASYS,
CORP.
008031 (base 16) BASYS, CORP.
501 MACARA AVENUE
SUNNYVALE CA 94086
US

00-80-3A (hex) VARITYPER, INC.
00803A (base 16) VARITYPER, INC.
900 MIDDLESEX TURNPIKE
BILLERICA MA 01821
US

00-80-88 (hex) VICTOR COMPANY OF JAPAN, LTD.
008088 (base 16) VICTOR COMPANY OF JAPAN, LTD.
58-7 SHINMEI-CHO, YOKOSUKA

JP

00-80-01 (hex) PERIPHONICS CORPORATION
008001 (base 16) PERIPHONICS CORPORATION
4000 VETERANS MEMORIAL HIGHWAY
BOHEMIA NEW YORK 11716
US

00-80-97 (hex) CENTRALP AUTOMATISMES
008097 (base 16) CENTRALP AUTOMATISMES
21, RUE MARCEL PAGNOL 69694

FR

00-80-41 (hex) VEB KOMBINAT ROBOTRON
008041 (base 16) VEB KOMBINAT ROBOTRON
GRUNAER STRAßE 2, DRESDEN 8010
GDR EAST
DE

00-80-1C (hex) NEWPORT SYSTEMS SOLUTIONS
00801C (base 16) NEWPORT SYSTEMS SOLUTIONS
4019 WESTERLY AVENUE
NEWPORT BEACH CA 92660
US

00-80-95 (hex) BASIC
MERTON HANDELSGES.M.B.H.
008095 (base 16) BASIC MERTON HANDELSGES.M.B.H.
DURCHLASS-STRASSE 42

AT

00-80-AE (hex) HUGHES NETWORK SYSTEMS
0080AE (base 16) HUGHES NETWORK SYSTEMS
11717 EXPLORATION LANE
GERMANTOWN MD 20876
US

00-80-DB (hex) GRAPHON CORPORATION
0080DB (base 16) GRAPHON CORPORATION
1506 DELL AVE - #
CAMPBELL CA 95008-6911
VE

00-80-D8 (hex) NETWORK PERIPHERALS INC.
0080D8 (base 16) NETWORK PERIPHERALS INC.
2890 ZONKER ROAD SUITE 209
SAN JOSE CA 95134
US

00-80-9E (hex) DATUS GMBH
00809E (base 16) DATUS GMBH
INDUSTRIESTR. 2
WEST
DE

00-80-13 (hex) THOMAS-CONRAD CORPORATION
008013 (base 16) THOMAS-CONRAD CORPORATION
1908-R KRAMER LANE
AUSTIN TX 78758
US

00-80-6E (hex) NIPPON STEEL CORPORATION
00806E (base 16) NIPPON STEEL CORPORATION
31-1 SHINKAWA 2-CHOUME

JP

00-80-10 (hex) COMMODORE INTERNATIONAL
008010 (base
16) COMMODORE INTERNATIONAL
1200 WILSON DRIVE
WEST CHESTER PA 19380
US

00-80-D5 (hex) CADRE TECHNOLOGIES
0080D5 (base 16) CADRE TECHNOLOGIES

19545 NW VON NEUMANN DRIVE
BEAVERTON OR 97006
VU

00-80-1B (hex) KODIAK TECHNOLOGY
00801B (base 16) KODIAK TECHNOLOGY
2340 HARRIS WAY
SAN JOSE CA 95131
US

00-80-D3 (hex) SHIVA CORP.
0080D3 (base 16) SHIVA CORP.
205 BURLINGTON ROAD
BEDFORD MA 01730
US

00-80-B3 (hex) AVAL DATA CORPORATION
0080B3 (base 16) AVAL DATA CORPORATION
MACHIDA ENGINEERING CENTER

JP

00-80-45 (hex) MATSUSHITA ELECTRIC IND. CO
008045 (base 16) MATSUSHITA ELECTRIC IND. CO
COMPUTER DIVISION
OSAKA 571
JP

00-80-20 (hex) NETWORK PRODUCTS
008020 (base 16) NETWORK PRODUCTS
DIVISION OF ANDREW CORPORATION
TORRANCE CA 90503
US

00-80-70 (hex) COMPUTADORAS MICRON
008070 (base 16) COMPUTADORAS MICRON
GUERRERO 2001 - 19

MX

00-80-08 (hex) DYNATECH COMPUTER SYSTEMS
008008 (base 16) DYNATECH COMPUTER SYSTEMS
280 BERNARDO AVENUE
MOUNTAIN VIEW CA 94039-7400
US

00-00-E4 (hex) IN2 GROUPE INTERTECHNIQUE

0000E4 (base 16) IN2 GROUPE INTERTECHNIQUE
IN2 - B.P.63

FR

00-80-39 (hex) ALCATEL STC AUSTRALIA
008039 (base 16) ALCATEL STC AUSTRALIA
252-280 BOTANY ROAD

AU

00-80-23 (hex) INTEGRATED BUSINESS NETWORKS
008023 (base 16) INTEGRATED BUSINESS NETWORKS
1BN THE SYSTEMS CENTRE
BUCKS HP19 3XN - ENGLAND
GB

00-80-6B (hex) SCHMID TELECOMMUNICATION
00806B (base 16) SCHMID TELECOMMUNICATION
BINZSTRASSE 35,

CH

00-80-59 (hex) STANLEY ELECTRIC CO., LTD
008059 (base 16) STANLEY ELECTRIC CO., LTD
R&D LABORATORY

JP

00-80-CA (hex) NETCOM RESEARCH INCORPORATED
0080CA (base 16) NETCOM RESEARCH INCORPORATED
201 TECHNOLOGY DRIVE
IRVINE CA 92718
US

00-00-94
(hex) ASANTE TECHNOLOGIES
000094 (base 16) ASANTE TECHNOLOGIES
821 FOX LANE
SAN JOSE CA 95131
US

00-00-90 (hex) MICROCOM
000090 (base 16) MICROCOM
500 RIVER RIDGE DRIVE
NORWOOD MA 02062-5028
US

00-00-47 (hex) NICOLET INSTRUMENTS CORP.
000047 (base 16) NICOLET INSTRUMENTS CORP.
5225 VERONA ROAD
MADISON WI 53711
US

00-00-70 (hex) HCL LIMITED
000070 (base 16) HCL LIMITED
RESEARCH & DEVELOPMENT UNIT

IN

00-00-8F (hex) Raytheon
00008F (base 16) Raytheon
M/S 1-1-1119
Marlboro MA 01752
US

00-80-A1 (hex) MICROTEST, INC.
0080A1 (base 16) MICROTEST, INC.
4747 N. 22ND STREET
PHOENIX AZ 85016-4708
US

00-80-A9 (hex) CLEARPOINT RESEARCH
0080A9 (base 16) CLEARPOINT RESEARCH
190 NORTH MAIN STREET
NATICK MA
US

00-80-F9 (hex) HEURIKON CORPORATION
0080F9 (base 16) HEURIKON CORPORATION
8310 EXCELSIOR DRIVE
MADISON WI 53717
US

00-80-47
(hex) IN-NET CORP.
008047 (base 16) IN-NET CORP.
16720 WEST BERNARDO DRIVE
SAN DIEGO CA 92127-1904
US

00-80-67 (hex) SQUARE D COMPANY
008067 (base 16) SQUARE D COMPANY
4041 NORTH RICHARD STREET
MILWAUKEE WI 53201
US

00-80-BF (hex) TAKAOKA ELECTRIC MFG. CO. LTD.
0080BF (base 16) TAKAOKA ELECTRIC MFG. CO. LTD.
KANDA BRANCH OFFICE TONEN

JP

00-80-17 (hex) PFU LIMITED
008017 (base 16) PFU LIMITED
Nu 98-2 Unoke
Kahoku-shi, Ishikawa 929-1192
JP

00-80-F8 (hex) MIZAR, INC.
0080F8 (base 16) MIZAR, INC.
1419 DUNN DRIVE
CARROLLTON TX 75006
US

00-00-A1 (hex) MARQUETTE ELECTRIC CO.
0000A1 (base 16) MARQUETTE ELECTRIC CO.
8200 WEST TOWER AVENUE
MILWAUKEE WI 53223
US

00-00-F5 (hex) DIAMOND SALES LIMITED
0000F5 (base 16) DIAMOND SALES LIMITED
17, CHARTERHOUSE STREET
UNITED KINGDOM
GB

00-00-5C (hex) TELEMATICS INTERNATIONAL
INC.
00005C (base 16) TELEMATICS INTERNATIONAL INC.
1201 CYPRESS CREEK RD
FT. LAUDERDALE FL 33309
US

00-00-AC (hex) CONWARE COMPUTER CONSULTING
0000AC (base 16) CONWARE COMPUTER CONSULTING
KILLISFELDSTRAßE 64

DE

00-00-26 (hex) SHA-KEN CO., LTD.
000026 (base 16) SHA-KEN CO., LTD.
MINAMI-OTSUKA
TOKYO

JP

00-00-B6 (hex) MICRO-MATIC RESEARCH
0000B6 (base 16) MICRO-MATIC RESEARCH
AMBACHTENLAAN 21 B5

BE

00-00-82 (hex) LECTRA SYSTEMES SA
000082 (base 16) LECTRA SYSTEMES SA
CHEMIN DE MARTICOT

FR

00-00-2B (hex) CRISP AUTOMATION, INC
00002B (base 16) CRISP AUTOMATION, INC
5160 BLAZER PARKWAY
DUBLIN OH 43017
US

00-00-14 (hex) NETRONIX
000014 (base 16) NETRONIX
1372 MCDOWELL BLVD.
PETULAMA CA 94952
US

00-00-72 (hex) MINIWARE TECHNOLOGY
000072 (base 16) MINIWARE TECHNOLOGY
BEEMDENSTRAAT 38
THE
NL

00-00-46
(hex) OLIVETTI NORTH AMERICA
000046 (base 16) OLIVETTI NORTH AMERICA
E 22425 APPLEWAY
LIBERTY LAKE WA 99019
US

00-00-8D (hex) Cryptek Inc.
00008D (base 16) Cryptek Inc.
1501 Moran Road
Sterling VA 20166
US

00-00-3B (hex) i Controls, Inc.
00003B (base 16) i Controls, Inc.
12F Doonsan building, 105-7

KOREA 135-714
KR

00-00-98 (hex) CROSSCOMM CORPORATION
000098 (base 16) CROSSCOMM CORPORATION
450 DONALD LYNCH BOULEVARD
MARLBOROUGH MA 01752
US

00-00-C6 (hex) EON SYSTEMS
0000C6 (base 16) EON SYSTEMS
10601 SOUTH DEANZA BLVD.
CUPERTINO CA 95014
US

00-00-8B (hex) INFOTRON
00008B (base 16) INFOTRON
9 NORTH OLNEY
CHERRY HILL NJ 08003
US

00-00-74 (hex) RICOH COMPANY LTD.
000074 (base 16) RICOH COMPANY LTD.
2446 TODA, ATSUGI CITY
243
JP

00-00-35 (hex) SPECTRAGRAPHICS CORPORATION
000035 (base 16) SPECTRAGRAPHICS CORPORATION

OR
SAN DIEGO CA 92121
US

00-00-21 (hex) SUREMAN COMP. & COMMUN. CORP.
000021 (base 16) SUREMAN COMP. & COMMUN. CORP.
10F-5 NO. 7, SEC. 3
TAIPEI TAIWAN, R.O.C.
TW

00-00-51 (hex) HOB ELECTRONIC GMBH & CO. KG
000051 (base 16) HOB ELECTRONIC GMBH & CO. KG
BRANDSSTATTER-STR.2-10

DE

00-00-A7 (hex) NETWORK COMPUTING DEVICES INC.
0000A7 (base 16) NETWORK COMPUTING DEVICES INC.

350 NORTH BERNARDO
MOUNTAIN VIEW CA 94043
US

00-00-30 (hex) VG LABORATORY SYSTEMS LTD
000030 (base 16) VG LABORATORY SYSTEMS LTD
TRIBUNE AVENUE
ENGLAND
GB

00-00-20 (hex) DATAINDUSTRIER DIAB AB
000020 (base 16) DATAINDUSTRIER DIAB AB
BOX 2029

SE

00-00-7A (hex) DANA COMPUTER INC.
00007A (base 16) DANA COMPUTER INC.
550 DEL REY AVENUE
SUNNYVALE CA 94086
US

00-00-45 (hex) FORD AEROSPACE & COMM. CORP.
000045 (base 16) FORD AEROSPACE & COMM. CORP.
COLORADO
SPRINGS OPERATION
COLORADO SPRINGS CO 80908
US

00-00-9C (hex) ROLM MIL-SPEC COMPUTERS
00009C (base 16) ROLM MIL-SPEC COMPUTERS
3151 ZANKER ROAD
SAN JOSE CA 95148
US

00-00-7C (hex) AMPERE INCORPORATED
00007C (base 16) AMPERE INCORPORATED
SHINJUKU ASAHI BLDG.
TOKYO
JP

08-00-71 (hex) MATRA (DSIE)
080071 (base 16) MATRA (DSIE)
PARC D'AFFAIRES - B.P. 262

FR

08-00-6C (hex) SUNTEK TECHNOLOGY INT'L

08006C (base 16) SUNTEK TECHNOLOGY INT'L
586 NO. FIRST STREET
SAN JOSE CA 95112
US

08-00-67 (hex) ComDesign
080067 (base 16) ComDesign

Goleta CA
US

08-00-5D (hex) GOULD INC.
08005D (base 16) GOULD INC.
6901 WEST SUNRISE BLVD.
FT. LAUDERDALE FL 33310-9148
US

08-00-5B (hex) VTA TECHNOLOGIES INC.
08005B (base 16) VTA TECHNOLOGIES INC.
2040 SHERMAN STREET
HOLLYWOOD FL 33020
US

00-00-68 (hex) ROSEMOUNT CONTROLS
000068
(base 16) ROSEMOUNT CONTROLS
1300 E. LAMBERT ROAD
LA HABRA CA 90632
US

00-00-E9 (hex) ISICAD, INC.
0000E9 (base 16) ISICAD, INC.
1920 WEST CORPORATE WAY
ANAHEIM CA 92803-6122
US

00-00-9F (hex) AMERISTAR TECHNOLOGIES INC.
00009F (base 16) AMERISTAR TECHNOLOGIES INC.
47 WHITTIER AVE.
MEDFORD NY 11763
US

00-00-E3 (hex) INTEGRATED MICRO PRODUCTS LTD
0000E3 (base 16) INTEGRATED MICRO PRODUCTS LTD
IMP, NO. 1 INDUSTRIAL ESTATE
ENGLAND ENGLAND DH86TJ
GB

00-00-AD (hex) BRUKER INSTRUMENTS INC.
0000AD (base 16) BRUKER INSTRUMENTS INC.
MANNING PARK
BILLERICA MA 01821
US

00-00-D3 (hex) WANG LABORATORIES INC.
0000D3 (base 16) WANG LABORATORIES INC.

00-00-D0 (hex) DEVELCON ELECTRONICS LTD.
0000D0 (base 16) DEVELCON ELECTRONICS LTD.
856-51ST STREET EAST

CA

00-00-93 (hex) PROTEON INC.
000093 (base 16) PROTEON INC.
4 TECH CIRCLE
NATICK
MA 01760
US

08-00-57 (hex) Evans & Sutherland
080057 (base 16) Evans & Sutherland

Salt Lake City UT
US

08-00-81 (hex) ASTECH INC.
080081 (base 16) ASTECH INC.
670 NORTH COMMERCIAL STREET
MANCHESTER NH 03101
US

00-00-B3 (hex) CIMLINC INCORPORATED
0000B3 (base 16) CIMLINC INCORPORATED
1957 CROOKS ROAD
TROY MI 48084
US

08-00-8C (hex) NETWORK RESEARCH CORPORATION
08008C (base 16) NETWORK RESEARCH CORPORATION
2380 N. ROSE AVENUE
OXNARD CA 93010
US

00-00-F1 (hex) MAGNA COMPUTER CORPORATION
0000F1 (base 16) MAGNA COMPUTER CORPORATION
22 KEEWAYDIN DRIVE
SALEM NH 03079
US

00-00-54 (hex) Schneider Electric
000054 (base 16) Schneider Electric
35 rue Joseph Monier

FR

04-0A-E0 (hex) XMIT AG COMPUTER NETWORKS
040AE0 (base 16) XMIT AG COMPUTER NETWORKS
11 AVENUE DE BAUMETTES

CH

00-DD-00 (hex) UNGERMANN-BASS INC.
00DD00
(base 16) UNGERMANN-BASS INC.
3900 FREEDOM CIRCLE
SANTA CLARA CA 95054
US

00-00-AA (hex) XEROX CORPORATION
0000AA (base 16) XEROX CORPORATION
M/S 105-50C
WEBSTER NY 14580
US

08-00-11 (hex) TEKTRONIX INC.
080011 (base 16) TEKTRONIX INC.
TECHNICAL STANDARDS
BEAVERTON OR 97077
US

08-00-17 (hex) NATIONAL SEMICONDUCTOR
080017 (base 16) NATIONAL SEMICONDUCTOR
2900 SEMICONDUCTOR DRIVE
SANTA CLARA CA 95051
US

08-00-1D (hex) ABLE COMMUNICATIONS INC.
08001D (base 16) ABLE COMMUNICATIONS INC.
17891 CARTWRIGHT ROAD
IRVINE CA 92714-6216

US

00-DD-0B (hex) UNGERMANN-BASS INC.
00DD0B (base 16) UNGERMANN-BASS INC.
3900 FREEDOM CIRCLE
SANTA CLARA CA 95054
US

08-00-2D (hex) LAN-TEC INC.
08002D (base 16) LAN-TEC INC.
2131 UNIVERSITY AVENUE
BERKELEY CA 94704
US

08-00-26 (hex) NORSK DATA A.S.
080026 (base 16) NORSK DATA A.S.
P.O. BOX 25
BOGERUD

NO

08-00-25 (hex) CONTROL DATA
080025 (base 16) CONTROL DATA
4201 LEXINGTON AVE NORTH
ARDEN HILLS MN 55112
US

10-00-00 (hex) Private
100000 (base 16) Private

00-00-D7 (hex) DARTMOUTH COLLEGE
0000D7 (base 16) DARTMOUTH COLLEGE
KIEWIT COMPUTER CENTER
HANOVER NH 03755
US

F8-09-A4 (hex) Henan Thinker Rail Transportation Research Inc.
F809A4 (base 16) Henan Thinker Rail Transportation Research Inc.
No.63 Dulan Road, High-tech Development Zone
Zhengzhou Henan 450001
CN

08-00-03 (hex) ADVANCED COMPUTER COMM.
080003 (base 16) ADVANCED COMPUTER COMM.
720 SANTA BARBARA ST.
SANTA BARBARA CA 93101
US

00-DD-0F (hex) UNGERMANN-BASS INC.
00DD0F (base 16) UNGERMANN-BASS INC.
3900 FREEDOM CIRCLE
SANTA CLARA CA 95054
US

00-00-01 (hex) XEROX CORPORATION
000001 (base 16) XEROX CORPORATION
M/S 105-50C
WEBSTER NY 14580
US

00-DD-03 (hex) UNGERMANN-BASS
INC.
00DD03 (base 16) UNGERMANN-BASS INC.
3900 FREEDOM CIRCLE
SANTA CLARA CA 95054
US

AA-00-04 (hex) DIGITAL EQUIPMENT CORPORATION
AA0004 (base 16) DIGITAL EQUIPMENT CORPORATION
LKG 1-2/A19
LITTLETON MA 01460-1289
US

08-00-0C (hex) MIKLYN DEVELOPMENT CO.
08000C (base 16) MIKLYN DEVELOPMENT CO.
3613 ANDOVER DIVE
BEDFORD TX 76021
US

00-DD-05 (hex) UNGERMANN-BASS INC.
00DD05 (base 16) UNGERMANN-BASS INC.
3900 FREEDOM CIRCLE
SANTA CLARA CA 95054
US

A8-42-A1 (hex) TP-Link Corporation Limited
A842A1 (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

9C-F5-5F (hex) Harman/Becker Automotive Systems GmbH
9CF55F (base 16) Harman/Becker Automotive Systems GmbH
Becker-Göring-Straße 16
Karlsbad Baden-Württemberg 76307
DE

90-2C-09 (hex) Apple, Inc.
902C09 (base 16) Apple,
Inc.
1 Infinite Loop
Cupertino CA 95014
US

A0-B4-0F (hex) Apple, Inc.
A0B40F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

48-D0-17 (hex) Telecom Infra Project
48D017 (base 16) Telecom Infra Project
401 Edgewater PL, STE 600
wakefield MA 01880-6200
US

EC-0D-51 (hex) Apple, Inc.
EC0D51 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

AC-DF-A1 (hex) Apple, Inc.
ACDFA1 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C8-CC-B5 (hex) Hunter Douglas
C8CCB5 (base 16) Hunter Douglas
One Duette Way
Broomfield CO 80020
US

C0-5F-87 (hex) Legrand INTELLIGENT ELECTRICAL(HUIZHOU)CO.,LTD.
C05F87 (base 16) Legrand INTELLIGENT ELECTRICAL(HUIZHOU)CO.,LTD.
39 East Hechang 6 Road, Zhongkai High-tech Zone, Huizhou City, Guangdong Province
Huizhou City Guangdong Province 516001
CN

80-7C-0A (hex) zte corporation
807C0A
(base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China

shenzhen guangdong 518057
CN

48-83-6F (hex) EM Microelectronic
48836F (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

F4-83-2C (hex) OHSUNG
F4832C (base 16) OHSUNG
335-4,SANHODAERO,GUMI,GYEONG BUK,KOREA
GUMI GYEONG BUK 730-030
KR

68-52-10 (hex) MCS Logic
685210 (base 16) MCS Logic
128, Beobwon-ro, Songpa-gu, Seoul 05854
seoul 05854
KR

A8-7C-45 (hex) HUAWEI TECHNOLOGIES CO.,LTD
A87C45 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

2C-ED-B0 (hex) HUAWEI TECHNOLOGIES CO.,LTD
2CEDB0 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

2C-69-3E (hex) HUAWEI TECHNOLOGIES CO.,LTD
2C693E (base 16) HUAWEI TECHNOLOGIES
CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

14-DA-B9 (hex) Huawei Device Co., Ltd.
14DAB9 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

B0-CA-E7 (hex) Huawei Device Co., Ltd.
B0CAE7 (base 16) Huawei Device Co., Ltd.

No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

DC-62-1F (hex) HUAWEI TECHNOLOGIES CO.,LTD
DC621F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

48-ED-E6 (hex) Zyxel Communications Corporation
48EDE6 (base 16) Zyxel Communications Corporation
No. 6, Innovation Road II
Hsinchu 300
TW

70-BD-D2 (hex) Adva Network Security GmbH
70BDD2 (base 16) Adva Network Security GmbH
Justus-von-Liebig-Strasse 7
Berlin 12489
DE

A4-10-B6 (hex) Cisco Systems,
Inc
A410B6 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

C8-47-09 (hex) Cisco Systems, Inc
C84709 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-D5-98 (hex) BOPEL MOBILE TECHNOLOGY CO.,LIMITED
00D598 (base 16) BOPEL MOBILE TECHNOLOGY CO.,LIMITED
RM603,6/F,HANG PONT COMM BLDG 31 TONKIN ST CHEUNG SHA WAN KL
Hong Kong 999077
CN

90-45-28 (hex) Nintendo Co.,Ltd
904528 (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

F4-52-46 (hex) ASKEY COMPUTER CORP

F45246 (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW TAIPEI 23585
TW

3C-25-F8 (hex) Dell Inc.
3C25F8 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

00-03-24 (hex) LIMNO Co., Ltd.
000324 (base 16) LIMNO Co., Ltd.
7-101 Tachikawa-cho
Tottori City 680-8634
JP

D0-0B-27
(hex) Murata Manufacturing Co., Ltd.
D00B27 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

4C-57-39 (hex) Samsung Electronics Co.,Ltd
4C5739 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

6C-16-29 (hex) Edifier International
6C1629 (base 16) Edifier International
Suit 2207, 22nd floor, Tower II, Lippo centre, 89 Queensway
Hong Kong 070
CN

F0-37-CF (hex) Huawei Device Co., Ltd.
F037CF (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

2C-C8-F5 (hex) Huawei Device Co., Ltd.
2CC8F5 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

48-E5-33 (hex) Sunnovo International Limited
48E533 (base 16) Sunnovo International Limited
Unit 805, 8/F, (MF2032), Harbour Crystal
Centre, 100 Granville Road, Tsimshatsui East, Kowloon, HK.
Kowloon MF2032
HK

F0-FD-DD (hex) Foxtron Vehicle Technologies Co., Ltd.
F0FDDD (base 16) Foxtron Vehicle Technologies Co., Ltd.
8F. No. 3 Sec. 3 Zhongxing Rd. Xindian Dist. New Taipei City
New Taipei City 23144
TW

AC-36-1B (hex) Hon Hai Precision Industry Co.,LTD
AC361B (base 16) Hon Hai Precision Industry Co.,LTD
66.Chung Shan RD, TU-CHENG Industrial , district new TAIPEI CITY,23678 , TAIWAN CHINA
TAIPEI 66.Chung Shan RD, TU-CHENG Industrial , district new TAIPEI 33859
CN

B8-06-0D (hex) Tuya Smart Inc.
B8060D (base 16) Tuya Smart Inc.
160 Greentree Drive, Suite 101
Dover DE 19904
US

C8-E1-93 (hex) ITEL MOBILE LIMITED
C8E193 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

D4-A2-3D (hex) New H3C Technologies Co., Ltd
D4A23D
(base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

D8-13-2A (hex) Espressif Inc.
D8132A (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

9C-1E-CE (hex) ALT Co., Ltd.
9C1ECE (base 16) ALT Co., Ltd.
#1201, 8, Seongnam-dearo 331beon-gil
Bundang-gu, Seongnam-si Gyeonggi-do 13558

KR

00-1F-9C (hex) Havis Inc.
001F9C (base 16) Havis Inc.
75 Jacksonville Road
Warminster PA 18974
US

80-65-99 (hex) Espressif Inc.
806599 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

BC-9A-8E (hex) HUMAX NETWORKS
BC9A8E (base 16) HUMAX NETWORKS
HUMAX VILLAGE, 216Hwangsaeul-ro, Bundang gu
Seongnam-si Gyeonggi-do 13595
KR

50-20-65 (hex) Quectel Wireless Solutions Co.,Ltd.
502065 (base 16) Quectel Wireless Solutions
Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

FC-47-8D (hex) SHENZHEN TOPWELL TECHNOLOGY CO., LTD.
FC478D (base 16) SHENZHEN TOPWELL TECHNOLOGY CO., LTD.
15/F, Building A1, Qiaode Science & Technology Park, No.7 Road, Hi-Tech Industry Park ,Guangming new district
Shenzhen Guang Dong 518000
CN

28-CB-5C (hex) Shenzhen CPETEK Technology Co.,Ltd.
28CB5C (base 16) Shenzhen CPETEK Technology Co.,Ltd.
Room 201,building A,No.1 Qianwan 1st Road,Shenzhen Hongkong cooperation
zone,Qianhai,Shenzhen,Guangdong,China
Shenzhen Guangdong 518066
CN

D0-5B-CB (hex) Tianyi Telecom Terminals Company Limited
D05BCB (base 16) Tianyi Telecom Terminals Company Limited
2F,No. 31, Jinrong Street, Xicheng District,Beijing
Beijing Beijing 100073
CN

00-C0-F2 (hex) Lantronix
00C0F2 (base 16) Lantronix

48 Discovery, Suite 250
Irvine CA 92618
US

A0-00-4C
(hex) HISENSE VISUAL TECHNOLOGY CO.,LTD
A0004C (base 16) HISENSE VISUAL TECHNOLOGY CO.,LTD
Qianwangang Road 218
Qingdao Shandong 266510
CN

E4-AA-E4 (hex) Xiaomi Communications Co Ltd
E4AAE4 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

68-C4-4C (hex) Xiaomi Communications Co Ltd
68C44C (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

E4-F8-BE (hex) TECNO MOBILE LIMITED
E4F8BE (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

D8-E5-93 (hex) Apple, Inc.
D8E593 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

CC-68-E0 (hex) Apple, Inc.
CC68E0 (base 16) Apple, Inc.
1 Infinite
Loop
Cupertino CA 95014
US

10-2C-B1 (hex) Smart Innovation LLC
102CB1 (base 16) Smart Innovation LLC
400 108th Ave NE?Ste 400
Bellevue WA 98004
US

70-DA-48 (hex) Cisco Systems, Inc
70DA48 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

04-AE-C7 (hex) Marquardt
04AEC7 (base 16) Marquardt
2711 US-20
CAZENOVIA NY 13035
US

F4-B6-2D (hex) Dongguan Huayin Electronic Technology Co., Ltd.
F4B62D (base 16) Dongguan Huayin Electronic Technology Co., Ltd.
Room 101, No.8 Xinglong 3rd Road, Shipai Town
Dongguan Guangdong 523000
CN

20-10-8A (hex) zte corporation
20108A (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

58-FF-A1 (hex) zte corporation
58FFA1 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

B0-8B-9E
(hex) Telechips, Inc.
B08B9E (base 16) Telechips, Inc.
19F~23F,Luther Bldg.42, Olympic-ro 35da-gil, Songpa-gu,
Seoul Seoul 05510
KR

BC-1F-E1 (hex) Ascendent Technology Group
BC1FE1 (base 16) Ascendent Technology Group
15 - 9th Avenue South
Cranbrook BC V1C 2L9
CA

B8-B1-EA (hex) Honor Device Co., Ltd.
B8B1EA (base 16) Honor Device Co., Ltd.
Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District

Shenzhen Guangdong 518040
CN

2C-58-B9 (hex) HP Inc.
2C58B9 (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

30-50-F1 (hex) Ennoconn Corporation.
3050F1 (base 16) Ennoconn Corporation.
3-6F,No.10,JiangKang Rd.,Zhonghe Dist.,New Taipei City 23586,Taiwan
TaiPei Taiwan 23586
TW

B0-FA-91 (hex) EM Microelectronic
B0FA91 (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

AC-DB-22
(hex) Marquardt Schaltsysteme SCS
ACDB22 (base 16) Marquardt Schaltsysteme SCS
Muenchen 2
Sibiu Romania 550018
RO

48-80-02 (hex) Cisco Systems, Inc
488002 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

B4-6A-D4 (hex) Edgecore Americas Networking Corporation
B46AD4 (base 16) Edgecore Americas Networking Corporation
20 Mason
Irvine 92618
US

AC-71-2E (hex) Fortinet, Inc.
AC712E (base 16) Fortinet, Inc.
899 Kifer Road
Sunnyvale 94086
US

F8-01-B4 (hex) LG Electronics
F801B4 (base 16) LG Electronics

222 LG-ro, JINWI-MYEON
Pyeongtaek-si Gyeonggi-do 451-713
KR

54-21-A9 (hex) ITEL MOBILE LIMITED
5421A9 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

10-73-C6 (hex) August Internet Limited
1073C6 (base 16) August Internet Limited
No.
250, Yang-Guang Street
Taipei 11491
TW

CC-D8-43 (hex) Beijing Xiaomi Mobile Software Co., Ltd
CCD843 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

C0-35-32 (hex) Liteon Technology Corporation
C03532 (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

74-06-35 (hex) SERNET (SUZHOU) TECHNOLOGIES CORPORATION
740635 (base 16) SERNET (SUZHOU) TECHNOLOGIES CORPORATION
NO.8 Tangzhuang Road,Suzhou Industrial Park,Su ZhouCity,JiangSu Province,China
Suzhou 215021
CN

D4-F9-21 (hex) Qingdao Intelligent&Precise Electronics Co.,Ltd.
D4F921 (base 16) Qingdao Intelligent&Precise Electronics Co.,Ltd.
No.218 Qianwangang Road
Qingdao Shangdong 266510
CN

7C-C0-AA (hex) Microsoft Corporation
7CC0AA (base 16) Microsoft Corporation
One
Microsoft Way
REDMOND WA 98052
US

60-60-1F (hex) SZ DJI TECHNOLOGY CO.,LTD
60601F (base 16) SZ DJI TECHNOLOGY CO.,LTD
DJI Sky City, No55 Xianyuan Road, Nanshan District
Shenzhen Guangdong 518057
CN

E4-7A-2C (hex) SZ DJI TECHNOLOGY CO.,LTD
E47A2C (base 16) SZ DJI TECHNOLOGY CO.,LTD
DJI Sky City, No55 Xianyuan Road, Nanshan District
Shenzhen Guangdong 518057
CN

94-AB-18 (hex) cellXica ltd
94AB18 (base 16) cellXica ltd
Building 7200, Suite 7224 Cambridge Research Park, Beach Drive, Waterbeach
Cambridge Cambridgeshire CB25 9TL
GB

F0-3F-03 (hex) Private
F03F03 (base 16) Private

C4-21-B9 (hex) zte corporation
C421B9 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

08-A5-DF (hex) Samsung Electronics Co.,Ltd
08A5DF (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

6C-D6-3F
(hex) HUAWEI TECHNOLOGIES CO.,LTD
6CD63F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

0C-18-4E (hex) HUAWEI TECHNOLOGIES CO.,LTD
0C184E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D4-F7-D5 (hex) Sony Interactive Entertainment Inc.
D4F7D5 (base 16) Sony Interactive Entertainment Inc.

1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

98-28-8B (hex) zhejiang Dusun Electron Co.,Ltd
98288B (base 16) zhejiang Dusun Electron Co.,Ltd
NO.640 FengQing str.,
DeQing ZheJiang 313000
CN

BC-B2-CC (hex) Samsung Electronics Co.,Ltd
BCB2CC (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

E0-E8-E6 (hex) Shenzhen C-Data Technology Co., Ltd.
E0E8E6 (base 16) Shenzhen C-Data Technology Co., Ltd.
#201, Building
A4, Nanshan Zhiyuan, No.1001, Xueyuan Avenue, Changyuan Community,Taoyuan,Nanshan
Shenzhen Guangdong 518055
CN

6C-1F-F7 (hex) Ugreen Group Limited
6C1FF7 (base 16) Ugreen Group Limited
4F, Plant 6, 1F-6/F, Block 7, YuAn Zone, Gaofeng Community, Dalang Street, Longhua District
Shenzhen Guangdong 518109
CN

04-5E-A4 (hex) Netis Technology Co., Ltd.
045EA4 (base 16) Netis Technology Co., Ltd.
Building 6, Baolong Plant, Able Technology Park, Longgang District
SHENZHEN 518116
CN

64-EE-B7 (hex) Netis Technology Co., Ltd.
64EEB7 (base 16) Netis Technology Co., Ltd.
Building 6, Baolong Plant, Able Technology Park, Longgang District,
Shenzhen 518116
CN

04-8D-38 (hex) Netis Technology Co., Ltd.
048D38 (base 16) Netis Technology Co., Ltd.
9F,B block,Tsinghua Information Guard
Shenzhen Guangdong 518057
CN

E8-25-87 (hex) Shenzhen Chilink IoT Technology Co., Ltd.

E82587 (base 16) Shenzhen
Chilink IoT Technology Co., Ltd.
No. A512, Building A, Famous And Excellent Industrial Products Exhibition And Procurement Center, Baoyuan Road, Bao'an District
ShenZhen GuangDong 518102
CN

50-7B-91 (hex) Sigmastar Technology Ltd.
507B91 (base 16) Sigmastar Technology Ltd.
No. 1, HoZan Road, Tong'an District
X iamen Fujian Province 361100
CN

8C-44-A5 (hex) Cisco Systems, Inc
8C44A5 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

08-E3-42 (hex) Cear, Inc.
08E342 (base 16) Cear, Inc.
6F, Takei Bldg. 2-19-6, Taito,
Taito-ku Tokyo 110-0016
JP

F4-FE-3E (hex) Apple, Inc.
F4FE3E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

34-2B-6E (hex) Apple, Inc.
342B6E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

60-65-25 (hex) Apple, Inc.
606525 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

14-55-B9
(hex) Nokia Solutions and Networks GmbH & Co. KG
1455B9 (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541

DE

F4-39-A6 (hex) Apple, Inc.
F439A6 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

FC-55-57 (hex) Apple, Inc.
FC5557 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

8C-55-70 (hex) IEEE Registration Authority
8C5570 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

A0-E0-25 (hex) Provision-ISR
A0E025 (base 16) Provision-ISR
Atir Yeda 11
Kfar Saba 4464310
IL

9C-24-72 (hex) Sagemcom Broadband SAS
9C2472 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

80-85-44 (hex) Intelbras
808544 (base 16) Intelbras
BR 101, km 210, S/N°
São José Santa Catarina 88104800
BR

78-CD-55
(hex) Texas Instruments
78CD55 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

8C-08-79 (hex) Texas Instruments
8C0879 (base 16) Texas Instruments
12500 TI Blvd

Dallas TX 75243
US

68-23-B0 (hex) Texas Instruments
6823B0 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

24-69-8E (hex) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
24698E (base 16) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
6th Floor, South Section, Building 23, Keyuan West, NO.1 Kezhi West Road, Science and Technology Community, Yuehai Street, Nanshan District
Shenzhen Guangdong 518057
CN

64-0D-CE (hex) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
640DCE (base 16) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
6th Floor, South Section, Building 23, Keyuan West, NO.1 Kezhi West Road, Science and Technology Community, Yuehai Street, Nanshan District
Shenzhen
Guangdong 518057
CN

F8-F5-19 (hex) Rulogic Inc.
F8F519 (base 16) Rulogic Inc.
501 Silverside Road, Suite 105
Wilmington DE 19809
US

A4-6D-D4 (hex) Silicon Laboratories
A46DD4 (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

0C-AE-5F (hex) Silicon Laboratories
0CAE5F (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

28-DB-A7 (hex) Silicon Laboratories
28DBA7 (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

6C-5C-B1 (hex) Silicon Laboratories
6C5CB1 (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

5C-C7-C1 (hex) Silicon Laboratories
5CC7C1 (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

60-B6-47 (hex) Silicon Laboratories
60B647 (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

20-5A-1D
(hex) zte corporation
205A1D (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

34-25-B4 (hex) Silicon Laboratories
3425B4 (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

4C-B7-E0 (hex) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
4CB7E0 (base 16) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
6th Floor, South Section, Building 23, Keyuan West, NO.1 Kezhi West Road, Science and Technology Community, Yuehai Street, Nanshan District
Shenzhen Guangdong 518057
CN

BC-0F-B7 (hex) sywinkey HongKong Co,. Limited?
BC0FB7 (base 16) sywinkey HongKong Co,. Limited?
RM2,3/F Ruby CDMN Building No. 480 Nathan Road KL
HongKong HongKong 999077
CN

58-3B-C2 (hex) Silicon Laboratories
583BC2 (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701

US

00-60-05 (hex) Touchstar
ATC Limited
006005 (base 16) Touchstar ATC Limited
7 Commerce Way, Stretford
Manchester M17 1HW
GB

54-60-6D (hex) HUAWEI TECHNOLOGIES CO.,LTD
54606D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

60-1D-56 (hex) Extreme Networks Headquarters
601D56 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

44-D4-65 (hex) NXP Semiconductors Taiwan Ltd.
44D465 (base 16) NXP Semiconductors Taiwan Ltd.
No. 10, Jing 5th Rd., Nanzi Dist., Kaohsiung City 811643, Taiwan
Nanzi Dist. Kaohsiung 811643
TW

AC-BA-C0 (hex) Intertech Services AG
ACBAC0 (base 16) Intertech Services AG
Werftestrasse 4
Luzern 6005
CH

00-CA-E0 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
00CAE0 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN
GUANG DONG 523860
CN

D4-F0-4A (hex) SKY UK LIMITED
D4F04A (base 16) SKY UK LIMITED
Grant Way
Isleworth Middlesex TW7 5QD
GB

9C-F1-D4 (hex) Roku, Inc
9CF1D4 (base 16) Roku, Inc

1155 Coleman Ave
San Jose CA 95110
US

00-40-8C (hex) Axis Communications AB
00408C (base 16) Axis Communications AB
SCHEELEVAGEN 16

SE

3C-45-0B (hex) Sentry Equipment Corp.
3C450B (base 16) Sentry Equipment Corp.
966 Blue Ribbon Cir N
Oconomowoc WI 53066
US

1C-7A-CF (hex) vivo Mobile Communication Co., Ltd.
1C7ACF (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

A8-6A-86 (hex) Xiaomi Communications Co Ltd
A86A86 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

A4-86-DB (hex) Guangdong Juan Intelligent Technology Joint Stock Co., Ltd.
A486DB
(base 16) Guangdong Juan Intelligent Technology Joint Stock Co., Ltd.
The first and second floors of Building 2 (Plant No. 2), West Side of Shanxi Village, Dashi Street,Panyu District, G uangzhou
Guangzhou Guangdong 510000
CN

9C-63-C0 (hex) Mellanox Technologies, Inc.
9C63C0 (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway, Suite 100
Sunnyvale CA 94085
US

5C-25-73 (hex) Mellanox Technologies, Inc.
5C2573 (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway, Suite 100
Sunnyvale CA 94085
US

B8-7E-39 (hex) Motorola Mobility LLC, a Lenovo Company
B87E39 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

54-EC-B0 (hex) Sercomm France Sarl
54ECB0 (base 16) Sercomm France Sarl
2/4 Rue Maurice Hartmann 92370 Issy Les Moulineaux France
Moulineaux 92370
FR

64-67-72 (hex) SERCOMM PHILIPPINES INC
646772 (base
16) SERCOMM PHILIPPINES INC
Lot 1 & 5, Phase 1, Filinvest Technology Park 1, Brgy. Punta, Calamba City
Calamba Lot 1
PH

70-D5-1E (hex) Fiberhome Telecommunication Technologies Co.,LTD
70D51E (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

10-90-FA (hex) New H3C Technologies Co., Ltd
1090FA (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

74-73-E2 (hex) Hillstone Networks Corp.
7473E2 (base 16) Hillstone Networks Corp.
5201 Great America Pkwy, #420 Santa Clara, CA 95054
Santa Clara CA 95054
US

D4-01-C3 (hex) Routerboard.com
D401C3 (base 16) Routerboard.com
Mikrotikls SIA
Riga Riga LV1009
LV

74-07-7E (hex) Quectel Wireless Solutions Co.,Ltd.
74077E (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai

200233
CN

30-EC-7C (hex) Shenzhen Along Electronics Co., Ltd
30EC7C (base 16) Shenzhen Along Electronics Co., Ltd
Shenzhen Baoan District Xixiang street Gushu community new Industrial Park 35
Shenzhen Guangdong 518126
CN

DC-DA-4D (hex) CELESTICA INC.
DCDA4D (base 16) CELESTICA INC.
1900-5140 Yonge Street PO Box 42
Toronto Ontario M2N 6L7
CA

50-5E-24 (hex) zte corporation
505E24 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

38-26-56 (hex) TCL King Electrical Appliances(Huizhou)Co.,Ltd
382656 (base 16) TCL King Electrical Appliances(Huizhou)Co.,Ltd
B Area, 10th floor, TCL multimedia Building, TCL International E City, #1001 Zhonshanyuan road,Shenzhen
guangdong China 518058
CN

84-BA-59 (hex) Wistron InfoComm(Chongqing)Co.,Ltd.
84BA59 (base 16) Wistron InfoComm(Chongqing)Co.,Ltd.
No.18-9 Baohong Avenue, Wangjia
Street, Yubei District, Chongqing
Chongqing Yubei 4001120
CN

B0-9E-1B (hex) Butlr Technologies, Inc.
B09E1B (base 16) Butlr Technologies, Inc.
800 Airport Boulevard, Ste 510
Burlingame CA 94010
US

14-A1-DF (hex) China Mobile Group Device Co.,Ltd.
14A1DF (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

8C-5C-20 (hex) ARRIS Group, Inc.
8C5C20 (base 16) ARRIS Group, Inc.

6450 Sequence Drive
San Diego CA 92121
US

D0-A0-11 (hex) IEEE Registration Authority
D0A011 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

D8-F7-60 (hex) EM Microelectronic
D8F760 (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

00-50-92 (hex) Rigaku Corporation Osaka Plant
005092 (base 16) Rigaku Corporation Osaka Plant
14-8, Akaoji, Takatsuki
Osaka 569-1146
JP

A8-CF-E0
(hex) GDN Enterprises Private Limited
A8CFE0 (base 16) GDN Enterprises Private Limited
D-348, Sector-63, Gautam Buddha Nagar, Noida, Uttar Pradesh - 201301
Noida Uttar Pradesh 201301
IN

54-C6-A6 (hex) Hubei Yangtze Mason Semiconductor Technology Co., Ltd.
54C6A6 (base 16) Hubei Yangtze Mason Semiconductor Technology Co., Ltd.
9F,Qingshan Big Data Valley, No.1,Jianshe 2nd Road, Qingshan District, Wuhan, Hubei
Wuhan, Hubei 430080
CN

D0-B3-C2 (hex) Meta Platforms Technologies, LLC
D0B3C2 (base 16) Meta Platforms Technologies, LLC
1601 Willow Rd
Menlo Park CA 94025
US

40-B8-2D (hex) Ruckus Wireless
40B82D (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

B0-B3-69 (hex) Shenzhen SDMC Technology CO.,Ltd.

B0B369 (base 16) Shenzhen SDMC Technology CO.,Ltd.
Room 1022, Floor 10, Building A, Customs Building, No. 2, Xin'an 3rd Road, Dalang Community, Xin'an Street, Bao'an District
Shenzhen GUANGDONG 518101
CN

C4-3E-AB (hex) Huawei Device Co., Ltd.
C43EAB (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

CC-44-60 (hex) Huawei Device Co., Ltd.
CC4460 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

24-50-6F (hex) THINKCAR TECH CO.,LTD.
24506F (base 16) THINKCAR TECH CO.,LTD.
2606,Building 4, Phase ll, Tianan Yungu, Gangtou community, Bantian Longgang District
Shenzhen Guangdong 518000
CN

34-EA-10 (hex) Orbic North America
34EA10 (base 16) Orbic North America
555 Wireless Blvd.
Hauppauge NY 11788
US

6C-92-CF (hex) Broadcom Limited
6C92CF (base 16) Broadcom Limited
15191 Alton Parkway
Irvine CA 92618
US

F4-31-49 (hex) Pixel FX
F43149 (base 16) Pixel FX
8001 Moore Road
Indianapolis IN 46278
US

78-E9-96
(hex) IEEE Registration Authority
78E996 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

3C-35-76 (hex) ITEL MOBILE LIMITED
3C3576 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

A0-21-AA (hex) China Mobile Group Device Co.,Ltd.
A021AA (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

F4-20-15 (hex) Guangzhou Shiyuan Electronic Technology Company Limited
F42015 (base 16) Guangzhou Shiyuan Electronic Technology Company Limited
No.6, 4th Yunpu Road, Yunpu industry District
Guangzhou Guangdong 510530
CN

1C-7A-43 (hex) vivo Mobile Communication Co., Ltd.
1C7A43 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

08-44-73 (hex) zte corporation
084473
(base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

B4-77-48 (hex) Shenzhen Neoway Technology Co.,Ltd.
B47748 (base 16) Shenzhen Neoway Technology Co.,Ltd.
Room 4401, Building 1, Huide Tower, Beizhan Community, Minzhi Sub-district, Longhua District
Shenzhen Guangdong 518000
CN

90-21-2E (hex) Apption Labs Ltd
90212E (base 16) Apption Labs Ltd
66 Commercial Square
Leicester Leicestershire LE2 7SR
GB

50-D4-48 (hex) Private
50D448 (base 16) Private

94-35-89 (hex) HUAWEI TECHNOLOGIES CO.,LTD

943589 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

94-26-1D (hex) HUAWEI TECHNOLOGIES CO.,LTD
94261D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A4-5C-25 (hex) Texas
Instruments
A45C25 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

98-F4-87 (hex) Texas Instruments
98F487 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

FC-59-9F (hex) Ruijie Networks Co.,LTD
FC599F (base 16) Ruijie Networks Co.,LTD
Building 19,Juyuanzhou Industrial Park, No.618 Jinshan Avenue, Cangshan District
Fuzhou 35000
CN

84-A3-29 (hex) Arcadyan Corporation
84A329 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

9C-09-8B (hex) Cisco Systems, Inc
9C098B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

9C-58-84 (hex) Apple, Inc.
9C5884 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

24-B3-39 (hex) Apple, Inc.
24B339 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E0-4E-7A (hex) Nanjing Qinheng Microelectronics Co., Ltd.
E04E7A (base 16) Nanjing Qinheng Microelectronics Co., Ltd.
No.18, Ningshuang Road
Nanjing Jiangsu 210012
CN

D0-76-02 (hex) Hui Zhou Gaoshengda Technology Co.,LTD
D07602 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.2,Jin-da Road,Huinan Industrial Park
Hui Zhou Guangdong 516025
CN

6C-EF-BD (hex) Cisco Meraki
6CEFBD (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco 94158
US

84-82-1B (hex) PROX SG Pte Ltd
84821B (base 16) PROX SG Pte Ltd
39 Woodlands Close, #03-32 Mega@Woodlands
Singapore 737856
SG

94-BD-BE (hex) TPV Display Technology (Xiamen) Co.,Ltd.
94BDBE (base 16) TPV Display Technology (Xiamen) Co.,Ltd.
No.1, Xianghai Road, Xiamen Torch Hi-Tech Industrial Development Zone
XM Fujian 361101
CN

94-0B-FA (hex) EM Microelectronic
940BFA (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

80-A5-79
(hex) IEEE Registration Authority
80A579 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554

US

74-39-89 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
743989 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

28-39-84 (hex) Qidi Technology (shanghai) Co.,Ltd.
283984 (base 16) Qidi Technology (shanghai) Co.,Ltd.
Building C, No. 888 Huanhu West Second Road, Pudong New District, Shanghai City, China
shanghai 200127
CN

5C-FA-5A (hex) Sinepower Lda
5CFA5A (base 16) Sinepower Lda
Rua Augusto Marques Branco, Lote 21-AZona Industrial do Mamodeiro
Aveiro Aveiro 3810-783
PT

F4-9D-8A (hex) Fantasia Trading LLC
F49D8A (base 16) Fantasia Trading LLC
5350 Ontario Mills Pkwy, Suite 100
Ontario CA 91764
US

7C-99-2E (hex) Shanghai Notion lnformatio Technology
Co.,Ltd.
7C992E (base 16) Shanghai Notion lnformatio Technology Co.,Ltd.
Room 407-409, No.2, Lane 666, Zhangheng Road, China (Shanghai) Pilot Free Trade Zone
Shanghai 200000
CN

8C-EA-88 (hex) Chengdu Yocto Communication Technology Co.Ltd.
8CEA88 (base 16) Chengdu Yocto Communication Technology Co.Ltd.
No.618,Fengshu Street,Jinjiang District
Chengdu Sichuan 610011
CN

10-5F-AD (hex) Intel Corporate
105FAD (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

4C-B0-4A (hex) Intel Corporate
4CB04A (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3

Kulim Kedah 09000
MY

40-EE-BE (hex) NXP Semiconductor (Tianjin) LTD.
40EEBE (base 16) NXP Semiconductor (Tianjin) LTD.
No.15 Xinghua Avenue, Xiqing Economic Development Area
Tianjin 300385
CN

FC-98-16 (hex) ALPSALPINE CO,.LTD
FC9816 (base 16) ALPSALPINE CO,.LTD
nishida 6-1
kakuda-City Miyagi-Pref
981-1595
JP

E0-8F-4C (hex) Intel Corporate
E08F4C (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

54-72-6E (hex) Daimler Truck AG
54726E (base 16) Daimler Truck AG
Fasanenweg 10
Leinfelden-Echterdingen 70771
DE

3C-0A-7A (hex) Samsung Electronics Co.,Ltd
3C0A7A (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

24-24-B7 (hex) Samsung Electronics Co.,Ltd
2424B7 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F0-05-1B (hex) Samsung Electronics Co.,Ltd
F0051B (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

BC-A0-80 (hex) Samsung Electronics Co.,Ltd
BCA080 (base 16) Samsung Electronics Co.,Ltd

#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-2B-70 (hex) Samsung Electronics Co.,Ltd
002B70 (base 16) Samsung Electronics
Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C4-46-06 (hex) Cisco Systems, Inc
C44606 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

FC-5C-EE (hex) LCFC(HeFei) Electronics Technology co., ltd
FC5CEE (base 16) LCFC(HeFei) Electronics Technology co., ltd
No.3188-1,YunGu Road(Comprehensive Bonded Zone),Hefei Economic and Technological Development Area
HEFEI 230601
CN

88-65-9F (hex) Fiberhome Telecommunication Technologies Co.,LTD
88659F (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

EC-FC-C6 (hex) Aruba, a Hewlett Packard Enterprise Company
ECFCC6 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

48-74-10 (hex) Cisco Systems, Inc
487410 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

B4-36-A9 (hex) Fibocom Wireless
Inc.
B436A9 (base 16) Fibocom Wireless Inc.
5/F,Tower A,Technology Building II,1057# Nanhai Blvd
Shenzhen GuangDong 518000
CN

6C-87-20 (hex) New H3C Technologies Co., Ltd
6C8720 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

0C-8D-7A (hex) RADiflow
0C8D7A (base 16) RADiflow
HaBarzel St 38
Tel-Aviv 6971054
IL

FC-A9-F5 (hex) Xiaomi Communications Co Ltd
FCA9F5 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

B8-50-01 (hex) Extreme Networks Headquarters
B85001 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

14-14-4B (hex) Ruijie Networks Co.,LTD
14144B (base 16) Ruijie Networks Co.,LTD
19-22# Building,Star-net Science Plaza,Juyuanzhou,
FUZHOU FUJIAN 350002
CN

00-04-A5 (hex) Barco
NV
0004A5 (base 16) Barco NV
BeneluxPark 21
Kortrijk 8500
BE

40-88-2F (hex) Extreme Networks Headquarters
40882F (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

40-18-B1 (hex) Extreme Networks Headquarters
4018B1 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

20-6C-8A (hex) Extreme Networks Headquarters
206C8A (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

88-5B-DD (hex) Extreme Networks Headquarters
885BDD (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

AC-ED-32 (hex) Extreme Networks Headquarters
ACED32 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

DC-E6-50 (hex) Extreme Networks Headquarters
DCE650 (base 16) Extreme Networks Headquarters
2121
RDU Center Drive
Morrisville NC 27560
US

24-1F-BD (hex) Extreme Networks Headquarters
241FBD (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

E4-44-E5 (hex) Extreme Networks Headquarters
E444E5 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

00-E6-0E (hex) Extreme Networks Headquarters
00E60E (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

6C-03-70 (hex) Extreme Networks Headquarters
6C0370 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560

US

78-96-A3 (hex) Extreme Networks Headquarters
7896A3 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

94-9B-2C (hex) Extreme Networks Headquarters
949B2C (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville
NC 27560
US

A4-EA-8E (hex) Extreme Networks Headquarters
A4EA8E (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

44-D9-80 (hex) EVERYBOT INC.
44D980 (base 16) EVERYBOT INC.
10th Floor of H Square B/D S, Pangyoyeok-ro 231, Bundang-gu
Seongnam-si Gyeonggi-do 13494
KR

34-85-84 (hex) Extreme Networks Headquarters
348584 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

00-16-E6 (hex) GIGA-BYTE TECHNOLOGY CO.,LTD.
0016E6 (base 16) GIGA-BYTE TECHNOLOGY CO.,LTD.
Pin-Jen City, Taoyuan
324
TW

D0-91-68 (hex) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
D09168 (base 16) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
Unit East Block22-24/F,Skyworth semiconductor design Bldg., Gaoxin Ave.4.S.,Nanshan District,Shenzhen,China
SHENZHEN GUANGDONG 518057
CN

D4-A3-8B (hex) ELE(GROUP)CO.,LTD
D4A38B

(base 16) ELE(GROUP)CO.,LTD
No.158, Chuangyuan Road, SIP, Suzhou, Jiangsu, China
suzhou jiangsu 215000
CN

10-E8-3A (hex) FIBERX DISTRIBUIDORA DE PRODUTOS DE TELECOMUNICACAO LTDA
10E83A (base 16) FIBERX DISTRIBUIDORA DE PRODUTOS DE TELECOMUNICACAO LTDA
RUA JOSE NEOLI CRUZ, 5000
PORTO BELO SANTA CATARINA 88210000
BR

54-13-CA (hex) ITEL MOBILE LIMITED
5413CA (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

48-00-20 (hex) Aruba, a Hewlett Packard Enterprise Company
480020 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

D0-DC-2C (hex) Cisco Systems, Inc
D0DC2C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

18-52-3D (hex) Xiamen Jiwu Technology CO.,Ltd
18523D (base 16) Xiamen Jiwu Technology CO.,Ltd
1st Floor,No.75
Hu'an Road, Huli District
Xiamen Fujian 361006
CN

D8-43-EA (hex) SY Electronics Ltd
D843EA (base 16) SY Electronics Ltd
7 Worrall Street
Manchester M5 4TH
GB

E0-4C-05 (hex) EverCharge
E04C05 (base 16) EverCharge
548 Market Street, 31647
San Francisco CA 94104
US

E8-C8-29 (hex) Intel Corporate
E8C829 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

F8-3C-44 (hex) SHENZHEN TRANSCHAN TECHNOLOGY LIMITED
F83C44 (base 16) SHENZHEN TRANSCHAN TECHNOLOGY LIMITED
Room 03, 23/F, Unit B Building, No 9, Shenzhen Bay Eco -Technology Park, Yuehai Street, Nanshan District, Shenzhen, China
Shenzhen 518000
CN

80-48-2C (hex) Wyze Labs Inc
80482C (base 16) Wyze Labs Inc
4030 Lake Washington Boulevard NE
Kirkland WA 98033
US

9C-89-1E (hex) FireBrick Ltd
9C891E (base 16) FireBrick Ltd
c/o Andrews & ARnold LtdEnterprise CourtDownmill Road
Bracknell
Berkshire RG12 1QS
GB

B0-4A-B4 (hex) Motorola Mobility LLC, a Lenovo Company
B04AB4 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

88-5E-BD (hex) NCKOREA Co.,Ltd.
885EBD (base 16) NCKOREA Co.,Ltd.
121, Hyeoksinsandan 7-gil, Wanggok-myeon, Naju-si, Jeollanam-do, Republic of Korea
Naju-si Jeollanam-do 58296
KR

1C-60-66 (hex) TEJAS NETWORKS LTD
1C6066 (base 16) TEJAS NETWORKS LTD
Plot 25 JP Software Park Electronics City Phase-1
Bangalore Karnataka 560100
IN

58-A2-E1 (hex) Mellanox Technologies, Inc.
58A2E1 (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway, Suite 100
Sunnyvale CA 94085

US

B0-CF-0E (hex) Mellanox Technologies, Inc.
B0CF0E (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway, Suite 100
Sunnyvale CA 94085
US

C4-14-A2 (hex) Cisco Meraki
C414A2 (base 16) Cisco Meraki
500
Terry A. Francois Blvd
San Francisco 94158
US

58-68-7A (hex) Sagemcom Broadband SAS
58687A (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

20-15-DE (hex) Samsung Electronics Co.,Ltd
2015DE (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

88-09-AF (hex) Masimo Corporation
8809AF (base 16) Masimo Corporation
52 Discovery
Irvine CA 92618
US

DC-F5-1B (hex) Arcadyan Corporation
DCF51B (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

5C-7D-F3 (hex) Fiberhome Telecommunication Technologies Co.,LTD
5C7DF3 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

CC-E9-FA (hex) Samsung Electronics Co.,Ltd
CCE9FA (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong

Gumi
Gyeongbuk 730-350
KR

EC-04-82 (hex) STL Systems AG
EC0482 (base 16) STL Systems AG
Hauptstrasse 137E
Taegerwilen 8274
CH

9C-96-13 (hex) Lenovo Future Communication Technology (Chongqing) Company Limited
9C9613 (base 16) Lenovo Future Communication Technology (Chongqing) Company Limited
618 Liangjiang Avenue, Longxing Town, Yubei District, Chongqing
Chongqing Chongqing 401120
CN

D0-F4-05 (hex) Hon Hai Precision Industry Co., Ltd.
D0F405 (base 16) Hon Hai Precision Industry Co., Ltd.
GuangDongShenZhen
ShenZhen GuangDong 518109
CN

08-7B-87 (hex) Cisco Systems, Inc
087B87 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

64-66-D8 (hex) Samsung Electronics Co.,Ltd
6466D8 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

48-9A-5B (hex) Shenzhen iComm Semiconductor CO.,LTD
489A5B (base 16) Shenzhen iComm Semiconductor
CO.,LTD
Room 601,Block B ,Digital Building,Garden City
Shenzhen No.1079 Nanhai Road,Nanshan District 518067
CN

64-E7-38 (hex) Zhejiang SUPCON Technology Co., Ltd.
64E738 (base 16) Zhejiang SUPCON Technology Co., Ltd.
No.309 Liuhe Road, Binjiang District
Hangzhou Zhejiang 310053
CN

38-F6-ED (hex) EVK DI Kerschhaggl GmbH

38F6ED (base 16) EVK DI Kerschhaggl GmbH
Josef Krainer Str. 35
Graz Styria A8074
AT

00-0C-EC (hex) Safran Trusted 4D Inc.
000CEC (base 16) Safran Trusted 4D Inc.
45 Becker Road Suite A
West Henrietta NY 14586
US

58-D3-12 (hex) zte corporation
58D312 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

D8-09-7F (hex) zte corporation
D8097F (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

44-E7-61 (hex) Infinix
mobility limited
44E761 (base 16) Infinix mobility limited
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
HongKong HongKong 999077
HK

E8-8D-A6 (hex) Quectel Wireless Solutions Co.,Ltd.
E88DA6 (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

3C-0A-F3 (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
3C0AF3 (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

6C-68-A4 (hex) Guangzhou V-Solution Telecommunication Technology Co.,Ltd.
6C68A4 (base 16) Guangzhou V-Solution Telecommunication Technology Co.,Ltd.
601,Building B2,No.162,Science Avenue,Science City,Guangzhou High-tech Industrial Development Zone,Guangdong Province,China
Guangzhou Guangdong 510663

CN

D8-2D-40
(hex) Janz - Contagem e Gestão de Fluídos S.A.
D82D40 (base 16) Janz - Contagem e Gestão de Fluídos S.A.
Av. Infante Dom Henrique, 288
Lisboa 1950-421
PT

A4-36-C7 (hex) LG Innotek
A436C7 (base 16) LG Innotek
26, Hanamsandan 5beon-ro
Gwangju Gwangsan-gu 506-731
KR

44-B5-9C (hex) Tenet Networks Private Limited
44B59C (base 16) Tenet Networks Private Limited
15 B, HIG Flats,Swarnim Vihar,Sector 82
Noida Uttar Pradesh 201304
IN

C0-7C-90 (hex) Shenzhen YOUHUA Technology Co., Ltd
C07C90 (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

84-86-87 (hex) weiyuantechnology
848687 (base 16) weiyuantechnology
Room 111, Floor 1, Building 8, No. 48, Jiubao Street, Shangcheng District
Hangzhou City 310000
CN

00-E6-3A (hex) Ruckus Wireless
00E63A (base
16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

00-39-69 (hex) Air-Weigh Incorporated
003969 (base 16) Air-Weigh Incorporated
1720 Willow Creek Circle
Eugene OR 97402
US

20-91-DF (hex) Apple, Inc.
2091DF (base 16) Apple, Inc.

1 Infinite Loop
Cupertino CA 95014
US

A8-9C-78 (hex) Apple, Inc.
A89C78 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

7C-61-30 (hex) Apple, Inc.
7C6130 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

80-B9-89 (hex) Apple, Inc.
80B989 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C4-52-4F (hex) Apple, Inc.
C4524F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

60-3E-5F (hex) Apple, Inc.
603E5F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

94-F9-29 (hex) Meta Platforms Technologies, LLC
94F929 (base 16) Meta
Platforms Technologies, LLC
1601 Willow Rd
Menlo Park CA 94025
US

E0-37-17 (hex) Vantiva USA LLC
E03717 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

90-58-51 (hex) Vantiva USA LLC

905851 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

08-7E-64 (hex) Vantiva USA LLC
087E64 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

10-33-BF (hex) Vantiva USA LLC
1033BF (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

6C-55-E8 (hex) Vantiva USA LLC
6C55E8 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

88-9E-68 (hex) Vantiva USA LLC
889E68 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

08-70-73 (hex) HUAWEI TECHNOLOGIES CO.,LTD
087073
(base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E4-DE-40 (hex) Aruba, a Hewlett Packard Enterprise Company
E4DE40 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

F8-5E-42 (hex) Vantiva USA LLC
F85E42 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

EC-93-7D (hex) Vantiva USA LLC
EC937D (base 16) Vantiva USA LLC
4855 Peachtree Industrial Blvd, Suite 20
Norcross GA 30902
US

D4-E2-CB (hex) Vantiva USA LLC
D4E2CB (base 16) Vantiva USA LLC
4855 Peachtree Industrial Blvd, Suite 20
Norcross GA 30902
US

8C-D0-8B (hex) WuXi Rigosys Technology Co.,LTD
8CD08B (base 16) WuXi Rigosys Technology Co.,LTD
China Sensor Network International Innovation Park,No.200 Linghu Road
WuXI 214135
CN

5C-22-DA (hex) Vantiva USA
LLC
5C22DA (base 16) Vantiva USA LLC
4855 Peachtree Industrial Blvd, Suite 20
Norcross GA 30902
US

00-65-1E (hex) Amcrest Technologies
00651E (base 16) Amcrest Technologies
16727 Park Row
Houston TX 77084
US

44-32-C8 (hex) Vantiva USA LLC
4432C8 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

08-95-2A (hex) Vantiva USA LLC
08952A (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

FC-52-8D (hex) Vantiva USA LLC
FC528D (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

28-BE-9B (hex) Vantiva USA LLC
28BE9B (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

D0-5A-00 (hex) Vantiva USA LLC
D05A00 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

3C-9A-77 (hex) Vantiva USA
LLC
3C9A77 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

7C-9A-54 (hex) Vantiva USA LLC
7C9A54 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

B8-C0-65 (hex) Universal Electronics, Inc.
B8C065 (base 16) Universal Electronics, Inc.
201 E Sandpointe Ave
SANTA ANA CA 927075778
US

D0-CE-C9 (hex) HAN CHANG
D0CEC9 (base 16) HAN CHANG
171, Gasan digital 1-ro, Geumcheon-gu, Seoul, Republic of Korea
Seoul Geumcheon-gu, Seoul 08503
KR

68-DA-73 (hex) IEEE Registration Authority
68DA73 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

A4-BD-7E (hex) HMD Global Oy
A4BD7E (base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo 02600

FI

FC-C2-33 (hex) ASUSTek COMPUTER INC.
FCC233 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei
Taiwan 112
TW

04-38-DC (hex) China Unicom Online Information Technology Co.,Ltd
0438DC (base 16) China Unicom Online Information Technology Co.,Ltd
133 Xidan North St, Xicheng District, Beijing
Beijing 100000
CN

DC-BD-CC (hex) Quectel Wireless Solutions Co.,Ltd.
DCBDCC (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

FC-FA-21 (hex) zte corporation
FCFA21 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

D0-7C-B2 (hex) Sigmastar Technology Ltd.
D07CB2 (base 16) Sigmastar Technology Ltd.
No. 1, HoZan Road, Tong'an District
X iamen Fujian Province 361100
CN

00-EE-01 (hex) Enablers Solucoes e Consultoria em Dispositivos
00EE01 (base 16) Enablers Solucoes e Consultoria em Dispositivos
Av. Vereador Jose Diniz2280
São Paulo São Paulo 04604-003
BR

80-F0-CF
(hex) Ruckus Wireless
80F0CF (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

68-DE-CE (hex) Fiberhome Telecommunication Technologies Co.,LTD
68DECE (base 16) Fiberhome Telecommunication Technologies Co.,LTD

No.5 DongXin Road
Wuhan Hubei 430074
CN

FC-B4-67 (hex) Espressif Inc.
FCB467 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

D8-BC-38 (hex) Espressif Inc.
D8BC38 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

38-31-5A (hex) Rinnai
38315A (base 16) Rinnai
103 International Drive
Peachtree City GA 30269
US

3C-19-CB (hex) TECNO MOBILE LIMITED
3C19CB (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong
Kong Hong Kong 999077
HK

A8-00-E3 (hex) Starkey Labs Inc.
A800E3 (base 16) Starkey Labs Inc.
6600 Washington Ave. S.
Eden Prairie MN 55344
US

B0-96-EA (hex) GD Midea Air-Conditioning Equipment Co.,Ltd.
B096EA (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
Midea Global Innovation Center,Beijiao Town,Shunde
Foshan Guangdong 528311
CN

18-6A-81 (hex) Sagemcom Broadband SAS
186A81 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

64-00-9C (hex) Insulet Corporation
64009C (base 16) Insulet Corporation
100 Nagog Park
Acton MA 01720
US

60-56-99 (hex) MAGNETI MARELLI S.E. S.p.A.
605699 (base 16) MAGNETI MARELLI S.E. S.p.A.
LOT N°146, ZONE FRANCHE TANGER AUTOMOTIVE CITY
Tangier 90000
MA

A8-2C-3E (hex) Shenzhen Cultraview Digital Technology Co., Ltd
A82C3E (base 16) Shenzhen Cultraview Digital Technology Co., Ltd
F6,M6,Maqueling, High-tech park, Nanshan district
Shenzhen Guangdong 518057
CN

D0-F9-28 (hex) zte corporation
D0F928 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

38-92-2E (hex) ArrayComm
38922E (base 16) ArrayComm
10th Floor, 139 Second Tianfu StreetChengdu High-tech Zone
Chengdu CN 610041
CN

C4-7E-E0 (hex) Cisco Systems, Inc
C47EE0 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

74-3A-EF (hex) Kaon Group Co., Ltd.
743AEF (base 16) Kaon Group Co., Ltd.
884-3, Seongnam-daero, Bundang-gu
Seongnam-si Gyeonggi-do 13517
KR

24-E4-CE (hex) Kaon Group Co., Ltd.
24E4CE (base 16) Kaon Group Co., Ltd.
884-3, Seongnam-daero, Bundang-gu
Seongnam-si Gyeonggi-do 13517
KR

10-91-D1 (hex) Intel Corporate
1091D1 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim
Kedah 09000
MY

6C-4C-E2 (hex) Intel Corporate
6C4CE2 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

A8-E5-39 (hex) Nurivoice Co., Ltd
A8E539 (base 16) Nurivoice Co., Ltd
NURI Bld, 16 Sapyeong-daero
Seoul Seocho-gu 06552
KR

B0-F0-0C (hex) Dongguan Wecxw CO.,Ltd.
B0F00C (base 16) Dongguan Wecxw CO.,Ltd.
Room 2201, building 1, No. 16, Keji 4th Road, Songshanhu, Dongguan City, Guangdong Province
Dongguan Guangdong 523429
CN

A8-FB-40 (hex) Nokia Solutions and Networks GmbH & Co. KG
A8FB40 (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541
DE

1C-7C-98 (hex) NEC Platforms, Ltd.
1C7C98 (base 16) NEC Platforms, Ltd.
2-3 Kandatsukasamachi
Chiyodaku Tokyo 101-8532
JP

A0-7F-8A (hex) Sagemcom Broadband SAS
A07F8A (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison
Cedex hauts de seine 92848
FR

2C-99-75 (hex) Samsung Electronics Co.,Ltd
2C9975 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu

Suwon Gyeonggi-Do 16677
KR

A8-58-4E (hex) PK VEGA
A8584E (base 16) PK VEGA
2 Stroitelny lane, office 20
Moscow Electrostal 144001
RU

F8-54-F6 (hex) AzureWave Technology Inc.
F854F6 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

08-74-58 (hex) Fiberhome Telecommunication Technologies Co.,LTD
087458 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

C4-82-E1 (hex) Tuya Smart Inc.
C482E1 (base 16) Tuya Smart Inc.
160 Greentree Drive, Suite 101
Dover DE 19904
US

00-E0-4D (hex) INTERNET INITIATIVE JAPAN, INC
00E04D (base 16) INTERNET INITIATIVE JAPAN, INC
Iidabashi Grand Bloom 2-10-2 Fujimi
Tokyo Chiyoda-ku 102-0071
JP

68-79-DD
(hex) Omnipless Manufacturing (PTY) Ltd
6879DD (base 16) Omnipless Manufacturing (PTY) Ltd
2 WestLake Drive, WestLake
Cape Town Western Cape 7945
ZA

60-C9-AA (hex) Nokia
60C9AA (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

E0-68-EE (hex) Phyplus Microelectronics Limited
E068EE (base 16) Phyplus Microelectronics Limited

304 Building 1 No.608 Sheng Xia Road
Shanghai 200000
CN

F0-C5-58 (hex) U.D.Electronic Corp.
F0C558 (base 16) U.D.Electronic Corp.
no.13, lane 68, Neixi Road, Luzhu District
Taoyuan Taiwan 33852
TW

48-06-2B (hex) Private
48062B (base 16) Private

E8-76-40 (hex) SKY UK LIMITED
E87640 (base 16) SKY UK LIMITED
Grant Way
Isleworth Middlesex TW7 5QD
GB

74-33-57 (hex) vivo Mobile Communication Co., Ltd.
743357 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

AC-00-F9
(hex) BizLink Technology (S.E.A) Sdn. Bhd.
AC00F9 (base 16) BizLink Technology (S.E.A) Sdn. Bhd.
No.5097, Tingkat Mak Mandin 4, Kawasan Perindustrian Mak Mandin,
Butterworth Pulau Pinang 13400
MY

68-1A-7C (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
681A7C (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

80-07-94 (hex) Samsung Electronics Co.,Ltd
800794 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F4-3C-3B (hex) HUNAN FN-LINK TECHNOLOGY LIMITED
F43C3B (base 16) HUNAN FN-LINK TECHNOLOGY LIMITED
No.8, Litong Road, Liuyan Economic & Tec
Changsha HUNAN 410329

CN

74-D7-CA (hex) Panasonic Automotive Systems Co.,Ltd
74D7CA (base 16) Panasonic Automotive Systems Co.,Ltd
5652
Matsumoto City Nagano 399-8730
JP

00-18-1C (hex) VITEC
00181C
(base 16) VITEC
St Davids House, St Davids Drive
Dalgety Bay Fife KY11 9NB
GB

98-9F-1E (hex) HUAWEI TECHNOLOGIES CO.,LTD
989F1E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

94-47-88 (hex) HUAWEI TECHNOLOGIES CO.,LTD
944788 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

54-12-CB (hex) HUAWEI TECHNOLOGIES CO.,LTD
5412CB (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

98-FB-F5 (hex) ATRALTECH
98FBF5 (base 16) ATRALTECH
Rue du pré de l'Horme
Crolles 38920
FR

30-1D-49 (hex) Firmus Technologies Pty Ltd
301D49 (base 16) Firmus Technologies Pty Ltd
23 Killafaddy Rd
St Leonards TAS 7250
AU

68-28-CF (hex) Aruba, a Hewlett Packard Enterprise
Company
6828CF (base 16) Aruba, a Hewlett Packard Enterprise Company

3333 Scott Blvd
Santa Clara CA 95054
US

40-14-82 (hex) Cisco Systems, Inc
401482 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

90-39-5F (hex) Amazon Technologies Inc.
90395F (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

D4-B6-80 (hex) Shanghai Linkyum Microeletronics Co.,Ltd
D4B680 (base 16) Shanghai Linkyum Microeletronics Co.,Ltd
Building 1, No.5500, Yuanjiang Road, Minhang District
Shanghai Shanghai 201101
CN

C8-13-37 (hex) Juniper Networks
C81337 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

AC-41-6A (hex) Amazon Technologies Inc.
AC416A (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

8C-EE-FD (hex) zte corporation
8CEEFD (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen
guangdong 518057
CN

C0-49-43 (hex) zte corporation
C04943 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

58-CD-C9 (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.

58CDC9 (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

BC-F4-99 (hex) Rockwell Automation
BCF499 (base 16) Rockwell Automation
1 Allen-Bradley Dr.
Mayfield Heights OH 44124-6118
US

90-3C-1D (hex) HISENSE VISUAL TECHNOLOGY CO.,LTD
903C1D (base 16) HISENSE VISUAL TECHNOLOGY CO.,LTD
Qianwangang Road 218
Qingdao Shandong 266510
CN

24-6C-84 (hex) Cisco Systems, Inc
246C84 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

90-EB-50 (hex) Cisco Systems, Inc
90EB50
(base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

60-95-32 (hex) Zebra Technologies Inc.
609532 (base 16) Zebra Technologies Inc.
ONE ZEBRA PLAZA
HOLTSVILLE NY 11742
US

D4-E9-5E (hex) Texas Instruments
D4E95E (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

10-15-C1 (hex) Zhanzuo (Beijing) Technology Co., Ltd.
1015C1 (base 16) Zhanzuo (Beijing) Technology Co., Ltd.
Room 313-2511, 3rd Floor, Shanshui Building, No. 3, Gulou East Street, Miyun District
Beijing 101500
CN

8C-F3-E7 (hex) solidotech
8CF3E7 (base 16) solidotech
No.1 Dongji Avenue, Jiangning District, Nanjing, Jiangsu Province, China
Nanjing Jiangsu Province 211153
CN

84-88-E1 (hex) Apple, Inc.
8488E1 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

10-BD-3A (hex) Apple, Inc.
10BD3A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA
95014
US

18-4A-53 (hex) Apple, Inc.
184A53 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

10-9F-41 (hex) Apple, Inc.
109F41 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

70-72-FE (hex) Apple, Inc.
7072FE (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

90-A7-BF (hex) EM Microelectronic
90A7BF (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

28-EF-01 (hex) Amazon Technologies Inc.
28EF01 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

D4-52-C7 (hex) Beijing L&S Lancom Platform Tech. Co., Ltd.
D452C7 (base 16) Beijing L&S Lancom Platform Tech. Co., Ltd.
901,floor 9, jelly loft, building 28, yard 9, Huinan Road, Changping District.
Beijing 102208
CN

80-EE-25 (hex) Shenzhen Skyworth Digital Technology CO., Ltd
80EE25 (base 16) Shenzhen Skyworth Digital Technology
CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

10-55-E4 (hex) Shenzhen Skyworth Digital Technology CO., Ltd
1055E4 (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

04-CE-09 (hex) Shenzhen Skyworth Digital Technology CO., Ltd
04CE09 (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

2C-C2-53 (hex) Apple, Inc.
2CC253 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B0-FB-15 (hex) Laird Connectivity
B0FB15 (base 16) Laird Connectivity
3F.-1, No.145, Xianzheng 9th Rd.,
Zhubei 30251
TW

80-C4-5D (hex) IPG Laser GmbH
80C45D (base 16) IPG Laser GmbH
Carl-Benz-Strasse 28
Burbach 57299
DE

68-F6-3B (hex) Amazon Technologies Inc.
68F63B (base 16) Amazon Technologies Inc.
P.O Box

8102
Reno NV 89507
US

68-85-A4 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
6885A4 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

E8-D5-2B (hex) Google, Inc.
E8D52B (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

B4-56-FA (hex) IOPSYS Software Solutions
B456FA (base 16) IOPSYS Software Solutions
Krukmakargatan 21
Stockholm Stockholm 118 51
SE

CC-3A-DF (hex) Neptune Technology Group Inc.
CC3ADF (base 16) Neptune Technology Group Inc.
1600 AL Highway 229 S
Tallassee AL 36078
US

68-EC-8A (hex) IKEA of Sweden AB
68EC8A (base 16) IKEA of Sweden AB
Box 72
Älmhult 343 81
SE

40-67-9B (hex) Shenzhen Skyworth Digital Technology CO., Ltd
40679B (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong
518057
CN

C0-68-CC (hex) Shenzhen Skyworth Digital Technology CO., Ltd
C068CC (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

24-E8-E5 (hex) Shenzhen Skyworth Digital Technology CO., Ltd

24E8E5 (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

04-AB-08 (hex) Shenzhen Skyworth Digital Technology CO., Ltd
04AB08 (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

E8-F8-D0 (hex) Nokia Shanghai Bell Co., Ltd.
E8F8D0 (base 16) Nokia Shanghai Bell Co., Ltd.
No.388 Ning Qiao Road,Jin Qiao Pudong Shanghai
Shanghai 201206
CN

40-8E-2C (hex) Microsoft Corporation
408E2C (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

11-11-11 (hex) Private
111111
(base 16) Private

B0-21-6F (hex) HUAWEI TECHNOLOGIES CO.,LTD
B0216F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

94-DF-34 (hex) HUAWEI TECHNOLOGIES CO.,LTD
94DF34 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

74-30-AF (hex) Fiberhome Telecommunication Technologies Co.,LTD
7430AF (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

28-BE-F3 (hex) FUJIAN STAR-NET COMMUNICATION CO.,LTD
28BEF3 (base 16) FUJIAN STAR-NET COMMUNICATION CO.,LTD
19-22# Building, Star-net Science Plaza, Juyuanzhou,

FUZHOU FUJIAN 350002
CN

E0-CB-19 (hex) Nokia
E0CB19 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

84-8F-69 (hex) Dell Inc.
848F69 (base 16) Dell Inc.
One Dell Way
Round
Rock TX 78682
US

54-9F-35 (hex) Dell Inc.
549F35 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

84-5A-3E (hex) Cisco Systems, Inc
845A3E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A4-4C-C8 (hex) Dell Inc.
A44CC8 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

E4-F0-04 (hex) Dell Inc.
E4F004 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

20-04-0F (hex) Dell Inc.
20040F (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

8C-EC-4B (hex) Dell Inc.
8CEC4B (base 16) Dell Inc.

One Dell Way
Round Rock TX 78682
US

D4-BE-D9 (hex) Dell Inc.
D4BED9 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

EC-F4-BB (hex) Dell Inc.
ECF4BB (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

B8-CA-3A (hex) Dell Inc.
B8CA3A (base 16) Dell Inc.
One
Dell Way
Round Rock TX 78682
US

54-48-10 (hex) Dell Inc.
544810 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

A8-99-69 (hex) Dell Inc.
A89969 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

B8-2A-72 (hex) Dell Inc.
B82A72 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

BC-30-5B (hex) Dell Inc.
BC305B (base 16) Dell Inc.
One Dell Way, MS RR5-45
Round Rock 78682
US

00-23-AE (hex) Dell Inc.

0023AE (base 16) Dell Inc.
One Dell Way, MS RR5-45
Round Rock 78682
US

00-1D-09 (hex) Dell Inc.
001D09 (base 16) Dell Inc.
One Dell Way, MS RR5-45
Round Rock 78682
US

00-0D-56 (hex) Dell Inc.
000D56 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

14-C3-5E (hex) FibRSol Global Network Limited
14C35E (base 16) FibRSol Global Network Limited
17, Deep Vihar, Vikas Nagar, Near Durga
Mata Mandir, Uttam Nagar New Delhi
New Delhi New Delhi 110059
IN

88-08-94 (hex) Skullcandy
880894 (base 16) Skullcandy
1441 Ute blvd.
Park City 84098
US

90-2A-EE (hex) Xiaomi Communications Co Ltd
902AEE (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

D8-47-8F (hex) Microchip Technology Inc.
D8478F (base 16) Microchip Technology Inc.
2355 W. Chandler Blvd.
Chandler AZ 85224
US

40-FA-FE (hex) Motorola Mobility LLC, a Lenovo Company
40FAFE (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

20-1C-3A (hex) Nintendo Co.,Ltd
201C3A (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

24-90-38 (hex) Universal Biosensors Pty Ltd
249038 (base 16) Universal Biosensors Pty Ltd
1 Corporate Ave
Rowville
Victoria 3178
AU

F8-ED-AE (hex) MOBIWIRE MOBILES(NINGBO) CO.,LTD
F8EDAE (base 16) MOBIWIRE MOBILES(NINGBO) CO.,LTD
Buliding B,Bird Indusrtial Park No.999 Dacheng Road,Fenghua Zhejiang,China
NingBo ZheJiang 315500
CN

D8-E3-5E (hex) LG Innotek
D8E35E (base 16) LG Innotek
26, Hanamsandan 5beon-ro
Gwangju Gwangsan-gu 506-731
KR

78-68-29 (hex) eero inc.
786829 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

14-A4-17 (hex) Shenzhen Belon Technology CO.,LTD
14A417 (base 16) Shenzhen Belon Technology CO.,LTD
Tsinghua Information
Shenzhen Guangdong 518052
CN

60-48-9C (hex) YIPPEE ELECTRONICS CO.,LIMITED
60489C (base 16) YIPPEE ELECTRONICS CO.,LIMITED
19H MAXGRAND PLAZA NO.3 TAI YAU STREET SAN PO KONG KL
Kowloon 999077
CN

94-98-8F (hex) Sagemcom Broadband SAS
94988F (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison

Cedex hauts de seine 92848
FR

F0-7B-65 (hex) Sagemcom Broadband SAS
F07B65 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

3C-0C-DB (hex) UNION MAN TECHNOLOGY CO.,LTD
3C0CDB (base 16) UNION MAN TECHNOLOGY CO.,LTD
18F, HUAYANG TOWER,YANDAYI ROAD
Huizhou Guangdong 516007
CN

F4-D9-C6 (hex) UNION MAN TECHNOLOGY CO.,LTD
F4D9C6 (base 16) UNION MAN TECHNOLOGY CO.,LTD
No.5,Huitai Road,Huinan High-Tech Park,Huiao Highway
Huizhou Guangdong 516025
CN

C0-25-A5 (hex) Dell Inc.
C025A5 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

E8-B5-D0 (hex) Dell Inc.
E8B5D0 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

08-92-04 (hex) Dell Inc.
089204 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

70-B5-E8 (hex) Dell Inc.
70B5E8 (base 16) Dell Inc.
One Dell Way
Round
Rock TX 78682
US

B8-CB-29 (hex) Dell Inc.
B8CB29 (base 16) Dell Inc.

One Dell Way
Round Rock TX 78682
US

34-73-5A (hex) Dell Inc.
34735A (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

F4-02-70 (hex) Dell Inc.
F40270 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

34-48-ED (hex) Dell Inc.
3448ED (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

A8-C5-6F (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
A8C56F (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

AC-7A-94 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
AC7A94 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

04-DA-28 (hex) Chongqing Zhouhai Intelligent Technology Co., Ltd
04DA28 (base 16) Chongqing Zhouhai Intelligent
Technology Co., Ltd
3rd Floor, Building A, ICC Industrial Park, Kaicheng Second Road, Hangcheng Street, Baoan District, Shenzhen City
shenzhen 518110
CN

0C-01-4B (hex) zte corporation
0C014B (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

74-D6-E5 (hex) Huawei Device Co., Ltd.
74D6E5 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

20-F5-97 (hex) Maasiv, LLC
20F597 (base 16) Maasiv, LLC
4939 W. Ray Road, Suite 4-200
Chandler AZ 85226
US

98-8C-B3 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
988CB3 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

5C-21-67 (hex) Rockwell Automation
5C2167 (base 16) Rockwell Automation
1 Allen-Bradley Dr.
Mayfield Heights
OH 44124-6118
US

6C-8F-4E (hex) Chongqing Yipingfang Technology Co., Ltd.
6C8F4E (base 16) Chongqing Yipingfang Technology Co., Ltd.
No. 1-10, Tieshan Road, Biquan Street, Bishan District, Chongqing
ChongQing 402760
CN

34-AF-A3 (hex) Recogni Inc
34AFA3 (base 16) Recogni Inc
2590 N 1ST STSuite 320
San Jose CA 95131
US

DC-9E-AB (hex) Chongqing Yipingfang Technology Co., Ltd.
DC9EAB (base 16) Chongqing Yipingfang Technology Co., Ltd.
No. 1-10, Tieshan Road, Biquan Street, Bishan District, Chongqing
ChongQing 402760
CN

48-9E-CB (hex) Hewlett Packard Enterprise
489ECB (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville 95747
US

48-91-D5 (hex) Cisco Systems, Inc
4891D5 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E0-1F-FC (hex) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
E01FFC (base 16) Motorola (Wuhan)
Mobility Technologies Communication Co., Ltd.
No.19, Gaoxin 4th Road, Wuhan East Lake High-tech Zone, Wuhan
Wuhan Hubei 430000
CN

CC-47-40 (hex) AzureWave Technology Inc.
CC4740 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

00-14-91 (hex) Daniels Electronics Ltd. dba Codan Radio Communications
001491 (base 16) Daniels Electronics Ltd. dba Codan Radio Communications
43 Erie St
Victoria BC V8V 1P8
CA

20-0B-C5 (hex) Cisco Systems, Inc
200BC5 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

90-E9-5E (hex) Cisco Systems, Inc
90E95E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

28-57-BE (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
2857BE (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

AC-CB-51 (hex) Hangzhou
Hikvision Digital Technology Co.,Ltd.
ACCB51 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road

Hangzhou Zhejiang 310052
CN

58-50-ED (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
5850ED (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

10-12-FB (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
1012FB (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

4C-F5-DC (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
4CF5DC (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

98-8B-0A (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
988B0A (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

20-29-B9 (hex) Ikotek technology SH
Co., Ltd
2029B9 (base 16) Ikotek technology SH Co., Ltd
Building 2, Shanghai Business Park Phase III (Area B), No.1036 Tianlin Road, Minhang District, Shanghai 200233, China
Shanghai 200233
CN

80-7C-62 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
807C62 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

BC-9B-5E (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
BC9B5E (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

80-BE-AF (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.

80BEAF (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

04-03-12 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
040312 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

30-4F-75
(hex) DZS Inc.
304F75 (base 16) DZS Inc.
DASAN Tower 8F, 49 Daewangpangyo-ro644beon-gil Bundang-gu
Seongnam-si Gyeonggi-do 13493
KR

D0-96-FB (hex) DZS Inc.
D096FB (base 16) DZS Inc.
DASAN Tower 8F, 49 Daewangpangyo-ro644beon-gil Bundang-gu
Seongnam-si Gyeonggi-do 13493
KR

00-01-47 (hex) DZS Inc.
000147 (base 16) DZS Inc.
7001 Oakport Street
Oakland CA 94621
US

00-02-71 (hex) DZS Inc.
000271 (base 16) DZS Inc.
7001 Oakport Street
Oakland CA 94621
US

9C-65-FA (hex) AcSiP
9C65FA (base 16) AcSiP
3F., No. 246, Bo'ai St., Shulin Dist.,
New Taipei 23805
TW

88-25-08 (hex) Meta Platforms Technologies, LLC
882508 (base 16) Meta Platforms Technologies, LLC
1601 Willow Rd
Menlo Park CA 94025
US

18-68-CB (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
1868CB (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.469,Jianghui Road
Hangzhou
Zhejiang 310052
CN

BC-BA-C2 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
BCBAC2 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

C8-2B-6B (hex) shenzhen worldelite electronics co., LTD
C82B6B (base 16) shenzhen worldelite electronics co., LTD
Office 5 F, Xiang Yu Industrial Park, Longsheng Road, Longgang Dist
Shenzhen Guangdong 51800
CN

C4-67-8B (hex) Alphabet Capital Sdn Bhd
C4678B (base 16) Alphabet Capital Sdn Bhd
L-3A-3A, No.2, Jalan Solaris, Solaris Mont Kiara, 50480 Kuala Lumpur, Malaysia
Mont Kiara Kuala Lumpur 50480
MY

60-F0-4D (hex) Honor Device Co., Ltd.
60F04D (base 16) Honor Device Co., Ltd.
Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District
Shenzhen Guangdong 518040
CN

5C-62-8B (hex) TP-Link Corporation Limited
5C628B (base 16) TP-Link
Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

D4-3A-2F (hex) SHENZHEN MTC CO LTD
D43A2F (base 16) SHENZHEN MTC CO LTD
5th Floor, 3rd Building, SHENZHEN MTC Industrial Park, XiaLilang Rd, Nanwan Street, Long’gang District
Shenzhen Guangdong 518100
CN

14-AB-EC (hex) Aruba, a Hewlett Packard Enterprise Company
14ABEC (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd

Santa Clara CA 95054
US

48-81-D4 (hex) Ruijie Networks Co.,LTD
4881D4 (base 16) Ruijie Networks Co.,LTD
No. 2, 7th floor, xingwangruijie, haixi hi-tech industrial park, high-tech zone, fuzhou city
Fuzhou Fujian 350002
CN

9C-84-B6 (hex) Shenzhen iComm Semiconductor CO.,LTD
9C84B6 (base 16) Shenzhen iComm Semiconductor CO.,LTD
Room 601,Block B ,Digital Building,Garden City
Shenzhen No.1079 Nanhai Road,Nanshan District 518067
CN

34-CA-81
(hex) New H3C Intelligence Terminal Co., Ltd.
34CA81 (base 16) New H3C Intelligence Terminal Co., Ltd.
Room 406-100, 1 Yichuang Street, China-Singapore Guangzhou Knowledge City, Huangpu District, Guangzhou.
Guangzhou Guangdong 510030
CN

28-0C-2D (hex) QUALVISION TECHNOLOGY CO.,LTD
280C2D (base 16) QUALVISION TECHNOLOGY CO.,LTD
2F-5F, Bldg B, No.37, Zhenxing RoadLiyuhe Industrial Park, Loucun,Gongming, shenzhen, China, 518107
China shenzhen 518107
CN

60-03-0C (hex) Shenzhen YOUHUA Technology Co., Ltd
60030C (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

18-14-AE (hex) Nokia
1814AE (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

C0-61-3D (hex) BioIntelliSense, Inc.
C0613D (base 16) BioIntelliSense, Inc.
17301 W. COLFAX AVENUE, SUITE 152
Golden CO 80401
US

04-18-D6

(hex) Ubiquiti Inc
0418D6 (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

88-67-DC (hex) HUAWEI TECHNOLOGIES CO.,LTD
8867DC (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

40-41-0D (hex) HUAWEI TECHNOLOGIES CO.,LTD
40410D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

5C-8B-6B (hex) Amazon Technologies Inc.
5C8B6B (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

00-19-E2 (hex) Juniper Networks
0019E2 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

00-26-88 (hex) Juniper Networks
002688 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

84-18-88 (hex) Juniper Networks
841888 (base 16) Juniper Networks
1133
Innovation Way
Sunnyvale CA 94089
US

24-A4-3C (hex) Ubiquiti Inc
24A43C (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

44-D9-E7 (hex) Ubiquiti Inc
44D9E7 (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

D0-21-F9 (hex) Ubiquiti Inc
D021F9 (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

70-A7-41 (hex) Ubiquiti Inc
70A741 (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

0C-86-10 (hex) Juniper Networks
0C8610 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

54-4B-8C (hex) Juniper Networks
544B8C (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

B0-A8-6E (hex) Juniper Networks
B0A86E (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale
CA 94089
US

08-81-F4 (hex) Juniper Networks
0881F4 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

E4-BC-AA (hex) Xiaomi Communications Co Ltd
E4BCAA (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085

CN

54-5D-D9 (hex) EDISTEC
545DD9 (base 16) EDISTEC
Rm 1701, Gasan SKV1 Center, 171, Gasan digital 1-ro, Geumcheon-gu, Seoul
Seoul Seoul 08503
KR

40-4C-CA (hex) Espressif Inc.
404CCA (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

BC-9E-2C (hex) China Mobile Group Device Co.,Ltd.
BC9E2C (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

30-7C-5E (hex) Juniper Networks
307C5E (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

F0-1C-2D
(hex) Juniper Networks
F01C2D (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

64-64-9B (hex) Juniper Networks
64649B (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

00-90-69 (hex) Juniper Networks
009069 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

80-AC-AC (hex) Juniper Networks
80ACAC (base 16) Juniper Networks
1133 Innovation Way

Sunnyvale CA 94089
US

2C-21-31 (hex) Juniper Networks
2C2131 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

9C-CC-83 (hex) Juniper Networks
9CCC83 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

44-AA-50 (hex) Juniper Networks
44AA50 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

E8-B6-C2 (hex) Juniper Networks
E8B6C2 (base 16) Juniper Networks
1133
Innovation Way
Sunnyvale CA 94089
US

C4-09-B7 (hex) Juniper Networks
C409B7 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

74-E7-98 (hex) Juniper Networks
74E798 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

48-73-10 (hex) Juniper Networks
487310 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

E4-FC-82 (hex) Juniper Networks
E4FC82 (base 16) Juniper Networks

1133 Innovation Way
Sunnyvale CA 94089
US

B8-C2-53 (hex) Juniper Networks
B8C253 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

14-B3-A1 (hex) Juniper Networks
14B3A1 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

D4-99-6C (hex) Juniper Networks
D4996C (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

40-DE-AD (hex) Juniper Networks
40DEAD
(base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

0C-59-9C (hex) Juniper Networks
0C599C (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

04-5C-6C (hex) Juniper Networks
045C6C (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

38-14-1B (hex) Secure Letter Inc.
38141B (base 16) Secure Letter Inc.
223, Yeoksam-ro
Gangnam-gu Seoul 06224
KR

B4-61-E9 (hex) Sichuan AI-Link Technology Co., Ltd.

B461E9 (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou, Industrial Park
Mianyang Sichuan 622650
CN

64-E2-04 (hex) NTN Technical Service Corporation
64E204 (base 16) NTN Technical Service Corporation
1578 Higashi-Kaizuka
Iwata Shizuoka 438-8510
JP

2C-98-11 (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
2C9811 (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51
Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

90-D6-89 (hex) Huahao Fangzhou Technology Co.,Ltd
90D689 (base 16) Huahao Fangzhou Technology Co.,Ltd
No.99,Hangtian Road,Section 2,East Third Ring Road,Chenghua Distrct,Chengdu,SiChuan
Chengdu SiChuan 610051
CN

C0-8B-2A (hex) Cisco Systems, Inc
C08B2A (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

2C-CA-75 (hex) Robert Bosch GmbH AnP
2CCA75 (base 16) Robert Bosch GmbH AnP
Robert Bosch Strasse 1
Ansbach 91522
DE

E0-D8-C4 (hex) Qingdao Intelligent&Precise Electronics Co.,Ltd.
E0D8C4 (base 16) Qingdao Intelligent&Precise Electronics Co.,Ltd.
No.218 Qianwangang Road
Qingdao Shangdong 266510
CN

9C-D1-D0 (hex) Guangzhou Ronsuo Electronic Technology Co.,Ltd
9CD1D0 (base 16) Guangzhou Ronsuo Electronic Technology Co.,Ltd
Address:Unit 503-505, 507, Area
E, No. 80 Lanyue Road, Science Avenue, Huangpu District, Guangzhou
Guangzhou Guangdong 510600
CN

3C-79-2B (hex) Dongguan Auklink TechnologyCo.,Ltd
3C792B (base 16) Dongguan Auklink TechnologyCo.,Ltd
401, Building 1, No. 11, Dalingshan Hupan Road
Dalingshan Town Dongguan City, Guangdong Province 523810
CN

00-0E-51 (hex) TECNA SpA
000E51 (base 16) TECNA SpA
Via Meucci, 27
Sastel San Pietro Terme Bologna 40024
IT

C0-C7-0A (hex) Ruckus Wireless
C0C70A (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

00-16-16 (hex) BROWAN COMMUNICATIONS INCORPORATION
001616 (base 16) BROWAN COMMUNICATIONS INCORPORATION
No.1 Jen-Ai Road, HsinChu Industrial Park,
HuKou Hsiang HsinChu Hsien 303
TW

5C-94-62 (hex) Shenzhen Jiuzhou Electric Co.,LTD
5C9462 (base 16) Shenzhen Jiuzhou Electric Co.,LTD
6F,Jiuzhou Electric Building,Southern No.12RD.,Hi-Tech Industrial Park,Nanshan District,
Shenzhen
Guangdong 518057
CN

CC-D8-1F (hex) Maipu Communication Technology Co.,Ltd.
CCD81F (base 16) Maipu Communication Technology Co.,Ltd.
No.16 Jiuxing Avenue, Hi-tech zone
Chengdu Sichuan 610094
CN

88-C6-E8 (hex) HUAWEI TECHNOLOGIES CO.,LTD
88C6E8 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

70-7C-E3 (hex) HUAWEI TECHNOLOGIES CO.,LTD
707CE3 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808

CN

3C-6F-9B (hex) zte corporation
3C6F9B (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

38-6F-6B (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
386F6B (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

54-11-49
(hex) vivo Mobile Communication Co., Ltd.
541149 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

90-52-BF (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
9052BF (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

88-1E-59 (hex) Onion Corporation
881E59 (base 16) Onion Corporation
895 Don Mills Road
North York Ontario M3C 1W3,
CA

28-02-2E (hex) Apple, Inc.
28022E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

FC-9C-A7 (hex) Apple, Inc.
FC9CA7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

48-E1-5C (hex) Apple, Inc.
48E15C (base 16) Apple, Inc.
1 Infinite Loop

Cupertino CA 95014
US

74-15-F5 (hex) Apple, Inc.
7415F5 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino
CA 95014
US

48-A9-8A (hex) Routerboard.com
48A98A (base 16) Routerboard.com
Mikrotikls SIA
Riga Riga LV1009
LV

2C-00-2A (hex) Shenzhen TINNO Mobile Technology Corp.
2C002A (base 16) Shenzhen TINNO Mobile Technology Corp.
Building, No.33, Xiandong Rd, Xili
Nanshan District, Shenzhen PRC 518053
CN

E8-88-43 (hex) Xiaomi Communications Co Ltd
E88843 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

7C-17-79 (hex) EM Microelectronic
7C1779 (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

AC-FC-82 (hex) Shenzhen Sundray Technologies Company Limited
ACFC82 (base 16) Shenzhen Sundray Technologies Company Limited
5th Floor, Block A4, Nanshan ipark,NO.1001 Xue Yuan Road, Nanshan District, Shenzhen 518055, P.R. China
Shenzhen Guangdong 518057
CN

70-5A-6F (hex) IEEE
Registration Authority
705A6F (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

DC-A3-13 (hex) Shenzhen Changjin Communication Technology Co.,Ltd

DCA313 (base 16) Shenzhen Changjin Communication Technology Co.,Ltd
6th Floor, Saibo Building, Tenglong Road, Minzhi Street, Longhua District, Shenzhen
Shenzhen 518000
CN

18-26-54 (hex) Samsung Electronics Co.,Ltd
182654 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

1C-67-60 (hex) Phonesuite
1C6760 (base 16) Phonesuite
400 Liberty Park Court
Flowood 39232
US

04-32-01 (hex) Broadcom Limited
043201 (base 16) Broadcom Limited
15191 Alton Parkway
Irvine CA 92618
US

B0-4B-68 (hex) NAKAYO Inc
B04B68 (base 16) NAKAYO Inc
1-3-2, Soja-machi
Maebashi-shi Gunma 371-0853
JP

F8-6B-14 (hex) Barrot Technology Co.,LTD
F86B14 (base 16) Barrot Technology Co.,LTD
A1009,
Block A, Jia Hua Building, No.9 Shangdisanjie St, Haidian District,
beijing beijing 100000
CN

70-46-98 (hex) HUAWEI TECHNOLOGIES CO.,LTD
704698 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

78-08-4D (hex) HUAWEI TECHNOLOGIES CO.,LTD
78084D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

EC-AA-8F (hex) HUAWEI TECHNOLOGIES CO.,LTD
ECAA8F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

68-9A-21 (hex) Fiberhome Telecommunication Technologies Co.,LTD
689A21 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

38-39-6C (hex) Huawei Device Co., Ltd.
38396C (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road,
Songshan Lake Zone
Dongguan Guangdong 523808
CN

50-66-E5 (hex) Huawei Device Co., Ltd.
5066E5 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

DC-77-94 (hex) Huawei Device Co., Ltd.
DC7794 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

D8-34-1C (hex) GD Midea Air-Conditioning Equipment Co.,Ltd.
D8341C (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
Midea Global Innovation Center,Beijiao Town,Shunde
Foshan Guangdong 528311
CN

00-18-7F (hex) ZODIANET
00187F (base 16) ZODIANET
23, rue des Fraisettes
PALAISEAU ESSONNE 91120
FR

CC-F8-26 (hex) Samsung Electronics Co.,Ltd
CCF826 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

70-B6-51 (hex) Eight Sleep
70B651 (base 16) Eight Sleep
212 W 35th StFloor 4
New
York NY 10123
US

90-CE-B8 (hex) Texas Instruments
90CEB8 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

B4-BC-7C (hex) Texas Instruments
B4BC7C (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

F8-8A-5E (hex) Texas Instruments
F88A5E (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

F4-33-1C (hex) Toast, Inc.
F4331C (base 16) Toast, Inc.
401 Park Drive, Suite 801
Boston MA 02215
US

54-51-DE (hex) Cisco Systems, Inc
5451DE (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

4C-06-17 (hex) Taicang T&W Electronics
4C0617 (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

D4-9A-F6 (hex) AzureWave Technology Inc.
D49AF6 (base 16) AzureWave Technology Inc.
8F., No.94, Baozhong Rd., Xindian
Taipei 231

US

AC-81-F3 (hex) Nokia Corporation
AC81F3
(base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

60-6E-41 (hex) Barrot Technology Co.,LTD
606E41 (base 16) Barrot Technology Co.,LTD
A1009, Block A, Jia Hua Building, No.9 Shangdisanjie St, Haidian District,
beijing beijing 100000
CN

88-94-8E (hex) Max Weishaupt GmbH
88948E (base 16) Max Weishaupt GmbH
Max-Weishaupt-Str. 14
Schwendi 88475
DE

2C-18-09 (hex) Apple, Inc.
2C1809 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

FC-47-D8 (hex) Apple, Inc.
FC47D8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E4-9D-73 (hex) Edgecore Networks Corporation
E49D73 (base 16) Edgecore Networks Corporation
1 Creation RD 3.
Hsinchu 30077
TW

44-EB-2E (hex) ALPSALPINE CO,.LTD
44EB2E (base 16) ALPSALPINE CO,.LTD
nishida 6-1
kakuda-City Miyagi-Pref 981-1595
JP

04-7F-0E (hex) Barrot Technology Co.,LTD
047F0E

(base 16) Barrot Technology Co.,LTD
C7-1-1,East Area, No.2,Shangdi Xinxi Road, Haidian District
Beijing 100085
CN

D4-01-45 (hex) ATW TECHNOLOGY, INC.
D40145 (base 16) ATW TECHNOLOGY, INC.
1F, No.236 Ba'ai Street, Shulin District
New Taipei City 23845
TW

7C-64-6C (hex) LG Electronics
7C646C (base 16) LG Electronics
222 LG-ro, JINWI-MYEON
Pyeongtaek-si Gyeonggi-do 451-713
KR

48-C1-EE (hex) Honor Device Co., Ltd.
48C1EE (base 16) Honor Device Co., Ltd.
Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District
Shenzhen Guangdong 518040
CN

94-72-0F (hex) Guangdong Nanguang Photo&Video Systems Co., Ltd.
94720F (base 16) Guangdong Nanguang Photo&Video Systems Co., Ltd.
Dongli Section, Highway 324, Chenghai
Shantou Guangdong 515829
CN

64-68-76 (hex) Edifier International
646876 (base 16) Edifier International
Suit
2207, 22nd floor, Tower II, Lippo centre, 89 Queensway
Hong Kong 070
CN

5C-64-F3 (hex) sywinkey HongKong Co,. Limited?
5C64F3 (base 16) sywinkey HongKong Co,. Limited?
RM2,3/F Ruby CDMN Building No. 480 Nathan Road KL
HongKong HongKong 999077
CN

28-E4-24 (hex) New H3C Technologies Co., Ltd
28E424 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

A8-F8-C9 (hex) NXP Semiconductor (Tianjin) LTD.
A8F8C9 (base 16) NXP Semiconductor (Tianjin) LTD.
No.15 Xinghua Avenue, Xiqing Economic Development Area
Tianjin 300385
CN

DC-B3-47 (hex) SHENZHEN FAST TECHNOLOGIES CO.,LTD
DCB347 (base 16) SHENZHEN FAST TECHNOLOGIES CO.,LTD
Room 202,Building No.5,Section 30,No.2 of Kefa Road,Nanshan District,Shenzhen,P.R.China
Shenzhen Guangdong 518057
CN

60-29-2B (hex) TP-LINK TECHNOLOGIES CO.,LTD.
60292B (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building
24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

50-80-4A (hex) Quectel Wireless Solutions Co.,Ltd.
50804A (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

A4-86-AE (hex) Quectel Wireless Solutions Co.,Ltd.
A486AE (base 16) Quectel Wireless Solutions Co.,Ltd.
No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

58-D3-91 (hex) Quectel Wireless Solutions Co.,Ltd.
58D391 (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

FC-3F-A6 (hex) eero inc.
FC3FA6 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

A0-24-F9 (hex) Chengdu InnovaTest Technology Co., Ltd
A024F9 (base 16) Chengdu InnovaTest Technology Co., Ltd
High

Tech District
Chengdu Sichuan 610000
CN

00-24-AC (hex) Hangzhou DPtech Technologies Co., Ltd.
0024AC (base 16) Hangzhou DPtech Technologies Co., Ltd.
Huarong Shidai Bld., NO.3880,Jiang-Nan Avenue, Binjiang District
Hangzhou Zhejiang 310051
CN

CC-08-7B (hex) HUAWEI TECHNOLOGIES CO.,LTD
CC087B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

60-15-21 (hex) Redarc Electronics
601521 (base 16) Redarc Electronics
23 Brodie Road (North)
Lonsdale South Australia 5160
AU

E4-26-D5 (hex) Motorola Mobility LLC, a Lenovo Company
E426D5 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

70-47-77 (hex) Ruckus Wireless
704777 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

00-06-8F (hex) Telemonitor, Inc.
00068F (base 16) Telemonitor,
Inc.
9055F Guilford Road
Columbia MD 21046
US

04-00-67 (hex) Stanley Black & Decker
040067 (base 16) Stanley Black & Decker
701 E Joppa Rd
Towson MD 21286
US

78-30-F5 (hex) TBT Inc.

7830F5 (base 16) TBT Inc.
10, Seounsandan-ro-4gil, Gyeyang-gu
Incheon 21072
KR

88-AF-7B (hex) Nanjing Powercore Tech Co.,Ltd
88AF7B (base 16) Nanjing Powercore Tech Co.,Ltd
Room 104-9, Block B, Animation Building, 11 Xinghuo Road, Jiangbei New Area, Nanjing
Nanjing 210000
CN

8C-8E-0D (hex) zte corporation
8C8E0D (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

C4-7B-80 (hex) Protempis, LLC
C47B80 (base 16) Protempis, LLC
3333 Warrenville Road, Ste 200
Lisle IL 60532-1999
US

00-09-0F (hex) Fortinet, Inc.
00090F (base 16) Fortinet, Inc.
1090 Kifer Road
Sunnyvale CA 94086
US

00-0C-E6 (hex) Fortinet,
Inc.
000CE6 (base 16) Fortinet, Inc.
899 Kifer Road
Sunnyvale CA 94086
US

9C-88-24 (hex) PetroCloud LLC
9C8824 (base 16) PetroCloud LLC
8308 Sterling St
Irving TX 75063
US

54-D7-E3 (hex) Aruba, a Hewlett Packard Enterprise Company
54D7E3 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

5C-2F-AF (hex) HomeWizard B.V.
5C2FAF (base 16) HomeWizard B.V.
Keyserswey 79
Noordwijk Zuid-Holland 2201CX
NL

E0-4B-41 (hex) Hangzhou Beilian Low Carbon Technology Co., Ltd.
E04B41 (base 16) Hangzhou Beilian Low Carbon Technology Co., Ltd.
Room 2502, area a, building 1, No. 57, jianger Road, Changhe street, Binjiang District,
HangZhou ZheJiang 310000
CN

E0-B9-8A (hex) Shenzhen Taike industrial automation company,Ltd
E0B98A (base 16) Shenzhen Taike industrial automation company,Ltd
34F,building B,Zhongzhou holding financial center,No.88
Haide 1st Road,Haizhu community,Yuehai street,Nanshan District,Shenzhen,Guangdong
Shenzhen Guangdong 518064
CN

A8-EE-6D (hex) Fine Point-High Export
A8EE6D (base 16) Fine Point-High Export
13800 Coppermine Rd
Herndon VA 20171
US

F4-E9-75 (hex) New H3C Technologies Co., Ltd
F4E975 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

D4-D4-DA (hex) Espressif Inc.
D4D4DA (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

38-64-07 (hex) Qingdao Intelligent&Precise Electronics Co.,Ltd.
386407 (base 16) Qingdao Intelligent&Precise Electronics Co.,Ltd.
No.218 Qianwangang Road
Qingdao Shangdong 266510
CN

1C-63-A5 (hex) securityplatform
1C63A5 (base 16) securityplatform
Suite # 771, 815 daewangpangyo-ro, sujeong-gu
seongnam-si gyeonggi-do 13449
KR

28-0A-EE
(hex) Renesas Electronics (Penang) Sdn. Bhd.
280AEE (base 16) Renesas Electronics (Penang) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

70-AE-D5 (hex) Apple, Inc.
70AED5 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

4C-22-F3 (hex) Arcadyan Corporation
4C22F3 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

20-0C-86 (hex) GX India Pvt Ltd
200C86 (base 16) GX India Pvt Ltd
595, SECTOR-8, IMT MANESAR
GURGAON Haryana 122051
IN

88-B8-6F (hex) Infinix mobility limited
88B86F (base 16) Infinix mobility limited
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
HongKong HongKong 999077
HK

C4-EB-43 (hex) Sagemcom Broadband SAS
C4EB43 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

C4-EB-41 (hex) Sagemcom
Broadband SAS
C4EB41 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

74-3E-39 (hex) YUSUR Technology Co., Ltd.
743E39 (base 16) YUSUR Technology Co., Ltd.

Room 1401,building 4,yard 1, Beiqing Road No.81, Haidian District
Beijing Beijing 100086
CN

38-53-19 (hex) 34ED LLC DBA Centegix
385319 (base 16) 34ED LLC DBA Centegix
2120 Powers Ferry Rd, Suite 110
Atlanta GA 30339
US

84-60-82 (hex) Hyperloop Technologies, Inc dba Virgin Hyperloop
846082 (base 16) Hyperloop Technologies, Inc dba Virgin Hyperloop
2159 Bay Street
LOS ANGELES CA 90021
US

F0-4F-7C (hex) Amazon Technologies Inc.
F04F7C (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

4C-74-A7 (hex) IEEE Registration Authority
4C74A7 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

B8-D4-BC (hex) zte
corporation
B8D4BC (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

F0-A2-25 (hex) Amazon Technologies Inc.
F0A225 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

D4-3A-2C (hex) Google, Inc.
D43A2C (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

54-C6-FF (hex) New H3C Technologies Co., Ltd

54C6FF (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

E8-AA-CB (hex) Samsung Electronics Co.,Ltd
E8AACB (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

C4-AA-C4 (hex) Zhejiang Dahua Technology Co., Ltd.
C4AAC4 (base 16) Zhejiang Dahua Technology Co., Ltd.
No.1199,Waterfront Road
Hangzhou Zhejiang 310053
CN

C4-E5-B1 (hex) Suzhou PanKore Integrated
Circuit Technology Co. Ltd.
C4E5B1 (base 16) Suzhou PanKore Integrated Circuit Technology Co. Ltd.
Room168, Building 2, No. 128, West Shenhu Road, Suzhou Industrial Park, Suzhou City, Jiangsu Province, China
SuZhou Jiangsu 215027
CN

AC-C4-A9 (hex) Fiberhome Telecommunication Technologies Co.,LTD
ACC4A9 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

7C-94-9F (hex) Shenzhen iComm Semiconductor CO.,LTD
7C949F (base 16) Shenzhen iComm Semiconductor CO.,LTD
Room 601,Block B ,Digital Building,Garden City
Shenzhen No.1079 Nanhai Road,Nanshan District 518067
CN

3C-2C-A6 (hex) Beijing Xiaomi Electronics Co.,Ltd
3C2CA6 (base 16) Beijing Xiaomi Electronics Co.,Ltd
Xiaomi Campus
Beijing Beijing 100085
CN

34-F2-23 (hex) Fujian Newland Communication Science Technology Co.,Ltd.
34F223 (base 16) Fujian Newland Communication Science Technology Co.,Ltd.
F5,
Hongzhuo Bldg., 1, Rujiangxi Rd., Fuzhou, Fujian, China
Fuzhou Fujian 350015
CN

94-D8-6B (hex) nass magnet Hungária Kft.
94D86B (base 16) nass magnet Hungária Kft.
Henger u.2
Veszprém 8200
HU

38-A9-EA (hex) HK DAPU ELECTRONIC TECHNOLOGY CO., LIMITED
38A9EA (base 16) HK DAPU ELECTRONIC TECHNOLOGY CO., LIMITED
FLAT/RM 3A-7 12/F, KAISER CENTRE, NO.18 CENTRE STREET, SAI YING PUN, HK
HONGKONG 000000
HK

24-E5-0F (hex) Google, Inc.
24E50F (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

E4-8E-10 (hex) CIG SHANGHAI CO LTD
E48E10 (base 16) CIG SHANGHAI CO LTD
5th Floor, Building 8 No 2388 Chenhang Road
SHANGHAI 201114
CN

64-DB-F7 (hex) Nokia Shanghai Bell Co., Ltd.
64DBF7 (base 16) Nokia Shanghai Bell Co., Ltd.
No.388 Ning Qiao Road,Jin Qiao Pudong Shanghai
Shanghai 201206
CN

3C-A2-C3 (hex) vivo Mobile Communication Co., Ltd.
3CA2C3
(base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

14-61-A4 (hex) Honor Device Co., Ltd.
1461A4 (base 16) Honor Device Co., Ltd.
Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District
Shenzhen Guangdong 518040
CN

D0-96-86 (hex) IEEE Registration Authority
D09686 (base 16) IEEE Registration Authority
445 Hoes Lane

Piscataway NJ 08554
US

E8-EF-22 (hex) Siemens Numerical Control Ltd., Nanjing
E8EF22 (base 16) Siemens Numerical Control Ltd., Nanjing
18 Runhuai Road, Lishui Zone
Nanjing 211200
CN

78-6C-84 (hex) Amazon Technologies Inc.
786C84 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

94-BE-09 (hex) China Mobile Group Device Co.,Ltd.
94BE09 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing
100053
CN

E0-75-26 (hex) China Dragon Technology Limited
E07526 (base 16) China Dragon Technology Limited
B4 Bldg.Haoshan 1st Industry Park,
Shenzhen Guangdong 518104
CN

5C-47-5E (hex) Ring LLC
5C475E (base 16) Ring LLC
1523 26th St
Santa Monica CA 90404
US

54-10-2E (hex) HUAWEI TECHNOLOGIES CO.,LTD
54102E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

94-D5-4D (hex) HUAWEI TECHNOLOGIES CO.,LTD
94D54D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C0-91-B9 (hex) Amazon Technologies Inc.
C091B9 (base 16) Amazon Technologies Inc.

P.O Box 8102
Reno NV 89507
US

70-28-04 (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
702804 (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue,
Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

BC-D0-EB (hex) New H3C Technologies Co., Ltd
BCD0EB (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

60-58-01 (hex) Shandong ZTop Microelectronics Co., Ltd.
605801 (base 16) Shandong ZTop Microelectronics Co., Ltd.
2-1105A5, Jinqiao international, No. 2277, 2nd Ring Road East, Hongjialou Street, Licheng District, Jinan, Shandong Province
Jinan 250000
CN

D8-63-0D (hex) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
D8630D (base 16) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
No.19, Gaoxin 4th Road, Wuhan East Lake High-tech Zone, Wuhan
Wuhan Hubei 430000
CN

9C-63-5B (hex) zte corporation
9C635B (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

F8-07-5D (hex) Huawei
Device Co., Ltd.
F8075D (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

98-22-6E (hex) Amazon Technologies Inc.
98226E (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

F8-A4-FB (hex) Nanjing Decowell Automation Co.,LTD
F8A4FB (base 16) Nanjing Decowell Automation Co.,LTD
Building 3, Zifeng Research and Innovation Park phase II, Qiaolin Street, Pukou District
Nanjing Jiangsu 211806
CN

24-F0-D3 (hex) Samsung Electronics Co.,Ltd
24F0D3 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

58-20-71 (hex) Samsung Electronics Co.,Ltd
582071 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

14-DC-51 (hex) Xiamen Cheerzing IOT Technology Co.,Ltd.
14DC51 (base 16) Xiamen Cheerzing IOT Technology Co.,Ltd.
Unit 702 7/F,No.165 East Tapu Road,Siming
District
Xiamen FuJian 361002
CN

04-33-1F (hex) Huawei Device Co., Ltd.
04331F (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

F8-9B-6E (hex) Nokia Solutions and Networks GmbH & Co. KG
F89B6E (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541
DE

E0-C2-64 (hex) Intel Corporate
E0C264 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

24-DC-0F (hex) Phytium Technology Co.,Ltd.
24DC0F (base 16) Phytium Technology Co.,Ltd.
Building5,XinAn Business Square,Haiyuan Middle Road Binhai New District,
Tianjin 300450

CN

68-49-92 (hex) Cisco Meraki
684992 (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco 94158
US

D4-BA-BA (hex) IEEE Registration Authority
D4BABA (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway
NJ 08554
US

9C-D8-E3 (hex) Wuhan Huazhong Numerical Control Co., Ltd
9CD8E3 (base 16) Wuhan Huazhong Numerical Control Co., Ltd
Wuhan Huazhong Numerical Control Co.?Ltd
Wuhan Hubei 430000
CN

60-C7-BE (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
60C7BE (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

04-04-B8 (hex) China Hualu Panasonic AVC Networks Co., LTD.
0404B8 (base 16) China Hualu Panasonic AVC Networks Co., LTD.
No.1 Hua Road,Qixianling,High Technology Zone,Dalian,Liaoning,China
Dalian LiaoNing 116023
CN

40-C2-BA (hex) COMPAL INFORMATION (KUNSHAN) CO., LTD.
40C2BA (base 16) COMPAL INFORMATION (KUNSHAN) CO., LTD.
NO. 25, THE 3RD Street KUNSHAN EXPORT PROCESSING ZONE
KUNSHAN SUZHOU 215300
CN

18-D6-DD (hex) HUAWEI TECHNOLOGIES CO.,LTD
18D6DD (base
16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

FC-18-03 (hex) HUAWEI TECHNOLOGIES CO.,LTD
FC1803 (base 16) HUAWEI TECHNOLOGIES CO.,LTD

No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

68-96-2E (hex) HUAWEI TECHNOLOGIES CO.,LTD
68962E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

CC-3D-D1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
CC3DD1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

54-C4-5B (hex) Arcadyan Corporation
54C45B (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

80-BC-37 (hex) Ruckus Wireless
80BC37 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

E0-01-A6 (hex) Edgecore
Networks Corporation
E001A6 (base 16) Edgecore Networks Corporation
1 Creation RD 3.
Hsinchu 30077
TW

20-36-26 (hex) TP-Link Corporation Limited
203626 (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

C0-51-5C (hex) zte corporation
C0515C (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

7C-2F-80 (hex) Gigaset Communications GmbH

7C2F80 (base 16) Gigaset Communications GmbH
SCM PE 2
Bocholt 46395
DE

2C-F2-A5 (hex) Sagemcom Broadband SAS
2CF2A5 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

4C-FC-22 (hex) SHANGHAI HI-TECH CONTROL SYSTEM CO.,LTD.
4CFC22 (base 16) SHANGHAI HI-TECH CONTROL SYSTEM CO.,LTD.
XinJun Ring Road 777, Caohejing Pujiang Hi-Tech Park, Minhang
District
Shanghai Shanghai 201114
CN

94-3C-96 (hex) Sagemcom Broadband SAS
943C96 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

30-B0-EA (hex) Shenzhen Chuangxin Internet Communication Technology Co., Ltd
30B0EA (base 16) Shenzhen Chuangxin Internet Communication Technology Co., Ltd
608, building r2-b, Gaoxin industrial village, No. 020, Gaoxin South 7th Road, Gaoxin community, Yuehai street, Nanshan District,
ShenZhen GuangDong 518000
CN

7C-DC-CC (hex) BEIJING STARBLAZE TECHNOLOGY CO.,LTD
7CDCCC (base 16) BEIJING STARBLAZE TECHNOLOGY CO.,LTD
Unit 907, Building 4, Building 2, No. 9 Fenghao East Road, Haidian District, Beijing
Beijing 100000
CN

34-47-9A (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
34479A (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

A4-1C-B4
(hex) DFI Inc
A41CB4 (base 16) DFI Inc
No.157, Shanying Rd., Gueishan Dist., Taoyuan City 333424, Taiwan (R.O.C.)
Taoyuan City 333424

TW

40-1A-58 (hex) Wistron Neweb Corporation
401A58 (base 16) Wistron Neweb Corporation
No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu R.O.C. 308
TW

3C-02-68 (hex) Infinera, Inc.
3C0268 (base 16) Infinera, Inc.
169 Java Drive
Sunnyvale CA 94089
US

74-08-DE (hex) Fujian Landi Commercial Technology Co., Ltd.
7408DE (base 16) Fujian Landi Commercial Technology Co., Ltd.
Building 3A, Block A, Fuzhou Software Park, No.89 Software Road, Gulou District
Fuzhou Fujian 350008
CN

10-FC-33 (hex) Huawei Device Co., Ltd.
10FC33 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

B0-81-01 (hex) Honor Device Co., Ltd.
B08101 (base 16) Honor Device Co., Ltd.
Suite 3401, Unit A, Building
6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District
Shenzhen Guangdong 518040
CN

48-5D-ED (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
485DED (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

5C-FC-6E (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
5CFC6E (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

70-B7-E4 (hex) Broadcom Limited
70B7E4 (base 16) Broadcom Limited
15191 Alton Parkway

Irvine CA 92618
US

14-23-F2 (hex) Broadcom Limited
1423F2 (base 16) Broadcom Limited
15191 Alton Parkway
Irvine CA 92618
US

94-AD-23 (hex) Apple, Inc.
94AD23 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

20-A5-CB (hex) Apple, Inc.
20A5CB
(base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F4-21-CA (hex) Apple, Inc.
F421CA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

BC-89-A7 (hex) Apple, Inc.
BC89A7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

CC-5E-F8 (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
CC5EF8 (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

DC-B7-AC (hex) Aruba, a Hewlett Packard Enterprise Company
DCB7AC (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

70-9C-45 (hex) HUAWEI TECHNOLOGIES CO.,LTD
709C45 (base 16) HUAWEI TECHNOLOGIES CO.,LTD

No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

FC-12-63 (hex) ASKEY COMPUTER CORP
FC1263
(base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585
TW

58-30-5B (hex) Shanghai Junqian Sensing Technology Co.,LTD
58305B (base 16) Shanghai Junqian Sensing Technology Co.,LTD
Room 602,Building 1,NO.760,Xinjunhuan Road, Caohejing High-Tech Park,Minhang District,
Shanghai Shanghai 201114
CN

7C-50-DA (hex) E.J Ward
7C50DA (base 16) E.J Ward
8620 N. New Braunfels, Ste. 200N
San Antonio TX 78217
US

5C-07-58 (hex) Ufispace Co., LTD.
5C0758 (base 16) Ufispace Co., LTD.
9F., No. 81 Jhongcheng Rd., Tucheng Dist.,
New Taipei 23674
TW

A0-31-31 (hex) Procenne Digital Security
A03131 (base 16) Procenne Digital Security
Eski Buyukdere Cd. No:7/12 Maslak
Istanbul Sariyer 34398
TR

C0-71-AA (hex) ShenZhen OnMicro Electronics Co.,Ltd.
C071AA (base 16) ShenZhen OnMicro Electronics Co.,Ltd.
Room 407-408, West Building, Skyworth Semiconductor
Building, GaoXin South 4th Road, Yuehai Street, Nanshan District
Shenzhen GuangDong 518057
CN

FC-07-36 (hex) Huawei Device Co., Ltd.
FC0736 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

94-A0-7D (hex) Huawei Device Co., Ltd.
94A07D (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

14-2D-79 (hex) Fiberhome Telecommunication Technologies Co.,LTD
142D79 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

E4-EC-E8 (hex) Samsung Electronics Co.,Ltd
E4ECE8 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C8-90-8A (hex) Samsung Electronics Co.,Ltd
C8908A (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

40-33-06 (hex) Taicang T&W Electronics
403306
(base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

00-0B-F8 (hex) Infinera, Inc.
000BF8 (base 16) Infinera, Inc.
1322 Bordeaux Drive
Sunnyvale CA 94089
US

78-3E-A1 (hex) Nokia Shanghai Bell Co., Ltd.
783EA1 (base 16) Nokia Shanghai Bell Co., Ltd.
No.388 Ning Qiao Road,Jin Qiao Pudong Shanghai
Shanghai 201206
CN

84-F4-4C (hex) International Integrated Systems., Inc.
84F44C (base 16) International Integrated Systems., Inc.
6F., No.7, Sec. 2, Xianmin Blvd., Banqiao Dist.,
New Taipei City 22041
TW

68-B9-C2 (hex) Earda Technologies co Ltd
68B9C2 (base 16) Earda Technologies co Ltd
Block A,Lianfeng Creative Park, #2 Jisheng Rd., Nansha District
Guangzhou Guangdong 511455
CN

D8-E8-44 (hex) zte corporation
D8E844 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

E4-6A-35
(hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
E46A35 (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

20-04-F3 (hex) Honor Device Co., Ltd.
2004F3 (base 16) Honor Device Co., Ltd.
Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District
Shenzhen Guangdong 518040
CN

38-E7-C0 (hex) Hui Zhou Gaoshengda Technology Co.,LTD
38E7C0 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.2,Jin-da Road,Huinan Industrial Park
Hui Zhou Guangdong 516025
CN

F0-C1-CE (hex) GoodWe Technologies CO., Ltd
F0C1CE (base 16) GoodWe Technologies CO., Ltd
No.90 Zijin Rd.,New District,Suzhou,215011,China
Suzhou JiangSu 215011
CN

90-6A-EB (hex) Microsoft Corporation
906AEB (base 16) Microsoft Corporation
One Microsoft Way
REDMOND
WA 98052
US

C4-EB-39 (hex) Sagemcom Broadband SAS
C4EB39 (base 16) Sagemcom Broadband SAS

250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

00-52-C8 (hex) Made Studio Design Ltd.
0052C8 (base 16) Made Studio Design Ltd.
10F., No. 169, Sec. 4, Zhongxiao E. Rd., Da-an Dist.
Taipei City 10690
TW

EC-C0-7A (hex) Laird Connectivity
ECC07A (base 16) Laird Connectivity
3F.-1, No.145, Xianzheng 9th Rd.,
Zhubei 30251
TW

C8-1E-C2 (hex) ITEL MOBILE LIMITED
C81EC2 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

58-2B-0A (hex) Texas Instruments
582B0A (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

08-9D-F4 (hex) Intel Corporate
089DF4 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

DC-46-28 (hex) Intel
Corporate
DC4628 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

0C-91-92 (hex) Intel Corporate
0C9192 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

48-AD-9A (hex) Intel Corporate

48AD9A (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

58-9A-3E (hex) Amazon Technologies Inc.
589A3E (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

E8-38-A0 (hex) Vizio, Inc
E838A0 (base 16) Vizio, Inc
39 Tesla
Irvine CA 92618
US

68-65-B7 (hex) Zhishang Chuanglian Technology Co., Ltd
6865B7 (base 16) Zhishang Chuanglian Technology Co., Ltd
2 / F, building F, hongfengtai Science Park, Jinyuan Road, Henggang street, Longgang District,
Shenzhen 518000
CN

9C-05-91 (hex) Mellanox Technologies, Inc.
9C0591 (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway,
Suite 100
Sunnyvale CA 94085
US

68-83-CB (hex) Apple, Inc.
6883CB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

88-B8-63 (hex) HISENSE VISUAL TECHNOLOGY CO.,LTD
88B863 (base 16) HISENSE VISUAL TECHNOLOGY CO.,LTD
Qianwangang Road 218
Qingdao Shandong 266510
CN

1C-46-D1 (hex) SKY UK LIMITED
1C46D1 (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

00-3F-10 (hex) Shenzhen GainStrong Technology Co., Ltd.
003F10 (base 16) Shenzhen GainStrong Technology Co., Ltd.
4/F, Building B, Hengmingzhu Industrial Park, Qian Jin Road 2, Baoan District
Shenzhen Guangdong 518126
CN

88-22-B2 (hex) Chipsea Technologies (Shenzhen) Corp.
8822B2 (base 16) Chipsea Technologies (Shenzhen) Corp.
3 / F, Block A, Building 2, Shenzhen Bay Innovation Technology Center, No.3156 keyuan South Road, Yuehai Street, Nanshan District, Shenzhen
Shenzhen Guangdong 518000
CN

48-02-AF
(hex) Telit Communication s.p.a
4802AF (base 16) Telit Communication s.p.a
Via stazione di prosecco 5B
SGONICO Trieste 34010
IT

FC-C7-37 (hex) Shaanxi Gangsion Electronic Technology Co., Ltd
FCC737 (base 16) Shaanxi Gangsion Electronic Technology Co., Ltd
Room 12302, building 1, Greenland territorial sea, No. 6, Jinye Road, high tech Zone, Xi'an, Shaanxi
xi'an Shaanxi 710076
CN

94-28-6F (hex) zte corporation
94286F (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

40-0E-F3 (hex) zte corporation
400EF3 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

74-3A-F4 (hex) Intel Corporate
743AF4 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

68-7A-64 (hex) Intel Corporate
687A64 (base 16) Intel Corporate
Lot 8,

Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

40-5E-F6 (hex) Samsung Electronics Co.,Ltd
405EF6 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

94-52-44 (hex) Samsung Electronics Co.,Ltd
945244 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

9C-2E-7A (hex) Samsung Electronics Co.,Ltd
9C2E7A (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

7C-63-05 (hex) Amazon Technologies Inc.
7C6305 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

D8-7E-6F (hex) CASCINATION AG
D87E6F (base 16) CASCINATION AG
Steigerhubelstrasse 3
Bern Bern 3008
CH

04-4F-7A (hex) China Mobile Group Device Co.,Ltd.
044F7A (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

E4-B5-55 (hex) Huawei Device Co.,
Ltd.
E4B555 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

28-77-B1 (hex) Tri plus grupa d.o.o.

2877B1 (base 16) Tri plus grupa d.o.o.
Banjavciceva 11
Zagreb Zagreb 10000
HR

54-31-D4 (hex) TGW Mechanics GmbH
5431D4 (base 16) TGW Mechanics GmbH
Collmannstraße 2
Wels 4600
AT

E0-16-B1 (hex) Advanced Design Technology co.,ltd.
E016B1 (base 16) Advanced Design Technology co.,ltd.
1-1-3 Kotobukicho#10F Mitsukikotobukichobiru
Fucyu-city Tokyo 1830056
JP

AC-60-6F (hex) Nokia Shanghai Bell Co., Ltd.
AC606F (base 16) Nokia Shanghai Bell Co., Ltd.
No.388 Ning Qiao Road,Jin Qiao Pudong Shanghai
Shanghai 201206
CN

BC-03-58 (hex) Intel Corporate
BC0358 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

B4-46-6B (hex) REALTIMEID AS
B4466B (base 16) REALTIMEID AS
Busk Bruns
veg 1 , 7760 Snåsa (Norway)
Snåsa 7760
NO

C0-69-11 (hex) Arista Networks
C06911 (base 16) Arista Networks
5453 Great America Parkway
Santa Clara CA 95054
US

94-01-AC (hex) Wuhan Qianyang Iotian Technology Co., Ltd
9401AC (base 16) Wuhan Qianyang Iotian Technology Co., Ltd
Unit 1301, Building B4, Wuhan future science and Technology City, Gaoxin Avenue, Wuhan East Lake New-Technology Development Zone
Wuhan Hubei 430206
CN

2C-93-FB (hex) Sercomm France Sarl
2C93FB (base 16) Sercomm France Sarl
2/4 Rue Maurice Hartmann 92370 Issy Les Moulineaux France
Moulineaux 92370
FR

78-44-FD (hex) TP-LINK TECHNOLOGIES CO.,LTD.
7844FD (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

58-C5-7E (hex) Fiberhome Telecommunication Technologies Co.,LTD
58C57E (base 16) Fiberhome
Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

4C-31-2D (hex) Sichuan AI-Link Technology Co., Ltd.
4C312D (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou, Industrial Park
Mianyang Sichuan 622650
CN

C0-4E-30 (hex) Espressif Inc.
C04E30 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

AC-15-A2 (hex) TP-Link Corporation Limited
AC15A2 (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

24-18-C0 (hex) E. Wehrle GmbH
2418C0 (base 16) E. Wehrle GmbH
Obertalstraße 8
78120 Furtwangen Baden-Württemberg 78120
DE

00-21-D0 (hex) Global Display Solutions Spa
0021D0 (base 16) Global Display Solutions Spa
Via Tezze, 20/A
Cornedo Vicentino Vicenza 36073

IT

D4-E2-2F (hex) Roku, Inc
D4E22F (base 16) Roku,
Inc
1155 Coleman Ave
San Jose CA 95110
US

B8-B4-09 (hex) Samsung Electronics Co.,Ltd
B8B409 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

C4-3C-B0 (hex) SHENZHEN BILIAN ELECTRONIC CO.LTD
C43CB0 (base 16) SHENZHEN BILIAN ELECTRONIC CO.LTD
NO.268? Fuqian Rd, Jutang community, Guanlan Town, Longhua New district
shenzhen guangdong 518000
CN

AC-DF-9F (hex) Arcadyan Corporation
ACDF9F (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

B8-59-C8 (hex) 70mai Co.,Ltd.
B859C8 (base 16) 70mai Co.,Ltd.
Room 2220, building 2, No. 588, Zixing road
Shanghai MinHang District 201100
CN

14-5B-B9 (hex) ConMet
145BB9 (base 16) ConMet
5701 SE Columbia Way
Vancouver WA 98661
US

C8-24-96 (hex) Jiangsu Yinhe Electronics Co.,Ltd.
C82496 (base 16) Jiangsu Yinhe Electronics Co.,Ltd.
No.188
Nanhuan Road, TangQiao Town
Zhangjiagang Jiangsu 215611
CN

A8-E2-07 (hex) GOIP Global Services Pvt. Ltd.
A8E207 (base 16) GOIP Global Services Pvt. Ltd.

H68, Sector 63, Noida 201301
Noida Uttar Pradesh 201301
IN

E0-F6-78 (hex) Fiberhome Telecommunication Technologies Co.,LTD
E0F678 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

28-F7-D6 (hex) Fiberhome Telecommunication Technologies Co.,LTD
28F7D6 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

40-22-30 (hex) Shenzhen SuperElectron Technology Co.,Ltd.
402230 (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen Guangdong 518000
CN

08-30-CE (hex) Fiberhome Telecommunication Technologies Co.,LTD
0830CE (base
16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

14-13-0B (hex) Garmin International
14130B (base 16) Garmin International
1200 E. 151st St
Olathe KS 66062
US

90-23-5B (hex) Amazon Technologies Inc.
90235B (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

1C-BC-EC (hex) silex technology, Inc.
1CBCEC (base 16) silex technology, Inc.
2-3-1 Hikaridai, Seika-cho, Souraku-gun
Kyoto 619-0237
JP

34-CF-6C (hex) Hangzhou Taili wireless communication equipment Co.,Ltd

34CF6C (base 16) Hangzhou Taili wireless communication equipment Co.,Ltd
Room 1901, No.258, Zhonghe Middle Road, Shangcheng District, Hangzhou
Hangzhou Zhejiang 310003
CN

48-9B-E0 (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
489BE0 (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District,
Chongqing.
Chongqing China 401120
CN

5C-FA-25 (hex) Sagemcom Broadband SAS
5CFA25 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

F8-CD-C8 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
F8CDC8 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

64-D8-14 (hex) Cisco Systems, Inc
64D814 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

7C-11-CD (hex) QianTang Technology
7C11CD (base 16) QianTang Technology
36 Landmark Palace
Beijing Beijing 100125

44-7F-77 (hex) Connected Home
447F77 (base 16) Connected Home
19-22, Rathbone Place
London W1T 1HY
GB

74-97-79 (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
749779 (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51
Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

B0-28-5B (hex) JUHUA Technology Inc.
B0285B (base 16) JUHUA Technology Inc.
No.8,Yanbao Block,Hutian Road,Pingdi Street,Longgang District
Shenzhen City Guangdong Province 518117
CN

40-3B-7B (hex) Huawei Device Co., Ltd.
403B7B (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

90-CD-1F (hex) Quectel Wireless Solutions Co.,Ltd.
90CD1F (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

F0-B6-61 (hex) eero inc.
F0B661 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

04-25-F0 (hex) Nokia
0425F0 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

48-57-D2 (hex) Broadcom Limited
4857D2 (base 16) Broadcom
Limited
15191 Alton Parkway
Irvine CA 92618
US

9C-21-83 (hex) Broadcom Limited
9C2183 (base 16) Broadcom Limited
15191 Alton Parkway
Irvine CA 92618
US

C8-EB-EC (hex) Shenzhen YOUHUA Technology Co., Ltd
C8EBEC (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055

CN

04-7C-16 (hex) Micro-Star INTL CO., LTD.
047C16 (base 16) Micro-Star INTL CO., LTD.
No.69, Lide St.,
New Taipei City Taiwan 235
TW

00-17-94 (hex) Cisco Systems, Inc
001794 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

D8-34-EE (hex) SHURE INCORPORATED
D834EE (base 16) SHURE INCORPORATED
5800 W. TOUHY AVE.
NILES IL 60714
US

94-C5-A6 (hex) ITEL MOBILE LIMITED
94C5A6 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7
KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

E0-6A-05 (hex) Shenzhen YOUHUA Technology Co., Ltd
E06A05 (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

40-42-44 (hex) Cisco Systems, Inc
404244 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

04-B6-BE (hex) CIG SHANGHAI CO LTD
04B6BE (base 16) CIG SHANGHAI CO LTD
5th Floor, Building 8 No 2388 Chenhang Road
SHANGHAI 201114
CN

E0-D7-38 (hex) WireStar Networks
E0D738 (base 16) WireStar Networks
PO Box 10966

College Station TX 77842
US

FC-B9-7E (hex) GE Appliances
FCB97E (base 16) GE Appliances
4000 Buechel Bank Road
Louisville KY 40225
US

30-E8-E4 (hex) Qorvo International Pte. Ltd.
30E8E4 (base 16) Qorvo International Pte. Ltd.
1 Changi Business
Park Avenue 1
#04-01 486058
SG

5C-E9-1E (hex) Apple, Inc.
5CE91E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

88-03-4C (hex) WEIFANG GOERTEK ELECTRONICS CO.,LTD
88034C (base 16) WEIFANG GOERTEK ELECTRONICS CO.,LTD
Gaoxin 2 Road, Free Trade Zone,Weifang,Shandong,261205,P.R.China
Weifang Shandong 261205
CN

48-DC-9D (hex) Grandprint(Beijing) Technology Co., LTD.
48DC9D (base 16) Grandprint(Beijing) Technology Co., LTD.
Room 259, 2 / F, Building 5, 8 Dongbeiwang West Road, Haidian District,
Beijing 100089
CN

64-FD-96 (hex) Sagemcom Broadband SAS
64FD96 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

64-98-9E (hex) TRINNOV AUDIO
64989E (base 16) TRINNOV AUDIO
5 rue Edmond Michelet
NEUILLY PLAISANCE Ile-de-France 93360
FR

F4-CE-46 (hex) Hewlett Packard
F4CE46 (base 16) Hewlett Packard

11445
Compaq Center Drive
Houston 77070
US

BC-C7-46 (hex) Hon Hai Precision IND.CO.,LTD
BCC746 (base 16) Hon Hai Precision IND.CO.,LTD
No. 66 Chung Shan Road TU-Cheng Industrial district TAIPEI TAIWAN
TAIPEI TAIWAN 33859
CN

7C-EC-B1 (hex) Apple, Inc.
7CECB1 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

8C-76-3F (hex) ARRIS Group, Inc.
8C763F (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

28-12-93 (hex) Honor Device Co., Ltd.
281293 (base 16) Honor Device Co., Ltd.
Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District
Shenzhen Guangdong 518040
CN

C0-A9-38 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C0A938 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

9C-BF-CD (hex) HUAWEI TECHNOLOGIES CO.,LTD
9CBFCD
(base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B8-9F-CC (hex) HUAWEI TECHNOLOGIES CO.,LTD
B89FCC (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

34-25-BE (hex) Amazon Technologies Inc.
3425BE (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

9C-E0-41 (hex) Nokia
9CE041 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

78-34-86 (hex) Nokia
783486 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

F0-D4-15 (hex) Intel Corporate
F0D415 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

D4-D8-53 (hex) Intel Corporate
D4D853 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

64-31-72 (hex) ZHEJIANG HISING TECHNOLOGY CO.,LTD
643172
(base 16) ZHEJIANG HISING TECHNOLOGY CO.,LTD
Room 201 and 202,Building 5,328 Pingjiang Road,Yuecheng District,Shaoxing
Shaoxing Zhejiang 312000
CN

D0-FC-D0 (hex) HUMAX Co., Ltd.
D0FCD0 (base 16) HUMAX Co., Ltd.
HUMAX Village, 216, Hwangsaeul-ro, Bu
Seongnam-si Gyeonggi-do 463-875
KR

20-FA-DB (hex) Huahao Kunpeng Technology (chengDu) Co.,Ltd.
20FADB (base 16) Huahao Kunpeng Technology (chengDu) Co.,Ltd.
No.99, Hangtian Road, Section 2, East Third Ring Road,Chenghua District, Chengdu
Chengdu 610051

CN

0C-8B-95 (hex) Espressif Inc.
0C8B95 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

DC-BE-49 (hex) ITEL MOBILE LIMITED
DCBE49 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

9C-95-61 (hex) Hui Zhou Gaoshengda Technology
Co.,LTD
9C9561 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.75,Zhongkai High-Tech Development District,Huizhou
Hui Zhou Guangdong 516006
CN

C0-ED-E5 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
C0EDE5 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

10-A5-62 (hex) Iton Technology Corp.
10A562 (base 16) Iton Technology Corp.
Room 1302, Block A, Building 4, Tianan Cyber Park, Huangge Road,Longgang District
Shenzhen Guangdong 518116
CN

D4-A3-EB (hex) Shenzhen iComm Semiconductor CO.,LTD
D4A3EB (base 16) Shenzhen iComm Semiconductor CO.,LTD
Room 601,Block B ,Digital Building,Garden City
Shenzhen No.1079 Nanhai Road,Nanshan District 518067
CN

04-63-D0 (hex) Huawei Device Co., Ltd.
0463D0 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

14-44-8F
(hex) Edgecore Networks Corporation
14448F (base 16) Edgecore Networks Corporation

1 Creation RD 3.
Hsinchu 30077
TW

9C-4F-5F (hex) Google, Inc.
9C4F5F (base 16) Google, Inc.
15 rue Castel
Fontenay-sous-Bois 94120
FR

78-15-2D (hex) UNION CHIP TECHNOLOGY LIMITED
78152D (base 16) UNION CHIP TECHNOLOGY LIMITED
5th Floor, Building A1, Hangcheng Jinchi Industrial Park, 8TH North Road, Hangcheng Street, Bao 'an District, Shenzhen
shenzhen 518000
CN

38-AB-41 (hex) Texas Instruments
38AB41 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

CC-47-92 (hex) ASIX Electronics Corporation
CC4792 (base 16) ASIX Electronics Corporation
4F, No. 8, Hsin Ann Road, Hsinchu Science Park
Hsinchu 30078
TW

E0-46-EE (hex) NETGEAR
E046EE (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

58-76-AC (hex) SERNET (SUZHOU) TECHNOLOGIES CORPORATION
5876AC
(base 16) SERNET (SUZHOU) TECHNOLOGIES CORPORATION
NO.8 Tangzhuang Road,Suzhou Industrial Park,Su ZhouCity,JiangSu Province,China
Suzhou 215021
CN

50-DC-D0 (hex) Observint Technologies, Inc.
50DCD0 (base 16) Observint Technologies, Inc.
11000 N Mopac Expressway Suite 300
Austin TX 78759
US

A0-29-42 (hex) Intel Corporate
A02942 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

10-71-B3 (hex) Zyxel Communications Corporation
1071B3 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

18-69-D4 (hex) Samsung Electronics Co.,Ltd
1869D4 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

68-5E-1C (hex) Texas Instruments
685E1C (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

D4-F0-EA (hex) Beijing Xiaomi Mobile Software Co., Ltd
D4F0EA
(base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

5C-24-E2 (hex) Suzhou Denbom Electronic S&T Co., Ltd
5C24E2 (base 16) Suzhou Denbom Electronic S&T Co., Ltd
3F,Building 2, No.415,Changyang Street
Suzhou Jiangsu 215000
CN

E0-03-6B (hex) Samsung Electronics Co.,Ltd
E0036B (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

00-A5-54 (hex) Intel Corporate
00A554 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

58-11-22 (hex) ASUSTek COMPUTER INC.
581122 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

74-69-4A (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
74694A (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan
Town, Dayi County
Chengdu Sichuan 611330
CN

00-B0-EE (hex) Ajile Systems, Inc.
00B0EE (base 16) Ajile Systems, Inc.
920 Saratoga Ave.
San Jose CA 95129
US

B8-7E-E5 (hex) Intelbras
B87EE5 (base 16) Intelbras
BR 101, km 210, S/N°
São José Santa Catarina 88104800
BR

A8-54-A2 (hex) Heimgard Technologies AS
A854A2 (base 16) Heimgard Technologies AS
Dronning Mauds gate 15
Oslo Norway 0250
NO

60-BE-B4 (hex) S-Bluetech co., limited
60BEB4 (base 16) S-Bluetech co., limited
Room 202, Block A, Donghai Wang Mansion, 369 Bulonglu
Shenzhen Guangdong 518000
CN

90-DF-7D (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
90DF7D (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

0C-86-29 (hex) IEEE Registration Authority
0C8629 (base 16) IEEE Registration
Authority
445 Hoes Lane

Piscataway NJ 08554
US

50-C1-F0 (hex) NXP Semiconductor (Tianjin) LTD.
50C1F0 (base 16) NXP Semiconductor (Tianjin) LTD.
No.15 Xinghua Avenue, Xiqing Economic Development Area
Tianjin 300385
CN

F4-84-8D (hex) TP-LINK TECHNOLOGIES CO.,LTD.
F4848D (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

94-AB-FE (hex) Nokia
94ABFE (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

BC-1D-89 (hex) Motorola Mobility LLC, a Lenovo Company
BC1D89 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

98-A9-2D (hex) New H3C Technologies Co., Ltd
98A92D (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

30-F7-0D (hex) Cisco
Systems, Inc
30F70D (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

74-2A-8A (hex) shenzhen worldelite electronics co., LTD
742A8A (base 16) shenzhen worldelite electronics co., LTD
Office 5 F, Xiang Yu Industrial Park, Longsheng Road, Longgang Dist
Shenzhen Guangdong 51800
CN

E4-73-05 (hex) Shenzhen INVT Electric CO.,Ltd
E47305 (base 16) Shenzhen INVT Electric CO.,Ltd

INVT Guangming Technology Building,Songbai Road,Matian,Guangming District,ShenZhen,China.518106
ShenZhen Guangdong 518000
CN

B0-1B-4B (hex) Invisible Fun Studio Limited
B01B4B (base 16) Invisible Fun Studio Limited
809, Block 2, Yip On Factory Est,
Kowloon Bay 000000
HK

B4-B7-42 (hex) Amazon Technologies Inc.
B4B742 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

78-A0-3F (hex) Amazon Technologies Inc.
78A03F (base 16) Amazon Technologies Inc.
P.O Box 8102

Reno NV 89507
US

50-46-AE (hex) MERCURY CORPORATION
5046AE (base 16) MERCURY CORPORATION
90, Gajaeul-ro, Seo-gu
INCHEON 22830
KR

B0-99-D7 (hex) Samsung Electronics Co.,Ltd
B099D7 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

74-74-46 (hex) Google, Inc.
747446 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

78-20-A5 (hex) Nintendo Co.,Ltd
7820A5 (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

20-78-CD (hex) Apple, Inc.

2078CD (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

30-D5-3E (hex) Apple, Inc.
30D53E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

50-23-A2 (hex) Apple, Inc.
5023A2 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

98-69-8A (hex) Apple, Inc.
98698A
(base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

78-FB-D8 (hex) Apple, Inc.
78FBD8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A4-C3-37 (hex) Apple, Inc.
A4C337 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B0-F1-D8 (hex) Apple, Inc.
B0F1D8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D0-88-0C (hex) Apple, Inc.
D0880C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

1C-57-DC (hex) Apple, Inc.
1C57DC (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

60-4F-5B (hex) Huawei Device Co., Ltd.
604F5B (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

24-81-3B (hex) Cisco Systems, Inc
24813B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

0C-B8-E8 (hex) Renesas
Electronics (Penang) Sdn. Bhd.
0CB8E8 (base 16) Renesas Electronics (Penang) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

E8-F3-75 (hex) Nokia
E8F375 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

E8-31-CD (hex) Espressif Inc.
E831CD (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

A0-69-D9 (hex) New H3C Technologies Co., Ltd
A069D9 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

20-FE-00 (hex) Amazon Technologies Inc.
20FE00 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

F4-21-AE (hex) Shanghai Xiaodu Technology Limited
F421AE (base 16) Shanghai Xiaodu Technology Limited
4th Floor Building No.1 , No.701 Naxian Road Pilot Free Trade Zone Shanghai China
Shanghai 200000
CN

F4-12-FA (hex) Espressif
Inc.
F412FA (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

B0-F2-08 (hex) AVM Audiovisuelles Marketing und Computersysteme GmbH
B0F208 (base 16) AVM Audiovisuelles Marketing und Computersysteme GmbH
Alt-Moabit 95
Berlin Berlin 10559
DE

F0-B2-B9 (hex) Intel Corporate
F0B2B9 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

DC-99-FE (hex) Armatura LLC
DC99FE (base 16) Armatura LLC
16192 Coastal Hwy
Lewes DE 19958
US

F0-A6-54 (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
F0A654 (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

9C-F1-55 (hex) Nokia
9CF155 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

EC-5C-84 (hex) Murata
Manufacturing Co., Ltd.
EC5C84 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari

Nagaokakyo-shi Kyoto 617-8555
JP

C0-88-6D (hex) Securosys SA
C0886D (base 16) Securosys SA
Technopark 1
Zürich ZH 8005
CH

48-74-12 (hex) OnePlus Technology (Shenzhen) Co., Ltd
487412 (base 16) OnePlus Technology (Shenzhen) Co., Ltd
18C02, 18C03, 18C04 ,18C05,TAIRAN BUILDING,
Shenzhen Guangdong 518000
CN

14-DC-E2 (hex) THALES AVS France
14DCE2 (base 16) THALES AVS France
75-77 Av. Marcel Dassault
Mérignac 33700
FR

6C-D8-69 (hex) Guangzhou Sat Infrared Co.,LTD
6CD869 (base 16) Guangzhou Sat Infrared Co.,LTD
No.10 Dongjiang Ave. GETDD
Guangzhou Guangdong 510730
CN

C8-9B-D7 (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
C89BD7 (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing
China 401120
CN

28-B1-33 (hex) SHINEMAN(SHENZHEN) Tech. Cor., Ltd.
28B133 (base 16) SHINEMAN(SHENZHEN) Tech. Cor., Ltd.
BanTian
SHENZHEN GUANGDONG 518000
CN

98-5F-4F (hex) Tongfang Computer Co.,Ltd.
985F4F (base 16) Tongfang Computer Co.,Ltd.
No. 118, Chunsun East Road, Xishan Economic Development Zone (Dongting)
Wuxi Jiangsu 214101
CN

34-F8-6E (hex) Parker Hannifin Corporation
34F86E (base 16) Parker Hannifin Corporation

6035 Parkland Blvd
Cleveland OH 44124
US

0C-AE-BD (hex) Edifier International
0CAEBD (base 16) Edifier International
Suit 2207, 22nd floor, Tower II, Lippo centre, 89 Queensway
Hong Kong 070
CN

A8-E6-21 (hex) Amazon Technologies Inc.
A8E621 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

3C-CF-B4 (hex) Telink Semiconductor (Shanghai) Co., Ltd.
3CCFB4 (base 16) Telink Semiconductor (Shanghai) Co., Ltd.
No. 1500 Zuchongzhi
Rd, Building #3
Shanghai 201203
CN

04-3C-E8 (hex) Shenzhen SuperElectron Technology Co.,Ltd.
043CE8 (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen Guangdong 518000
CN

74-E6-B8 (hex) LG Electronics
74E6B8 (base 16) LG Electronics
222 LG-ro, JINWI-MYEON
Pyeongtaek-si Gyeonggi-do 451-713
KR

28-D0-F5 (hex) Ruijie Networks Co.,LTD
28D0F5 (base 16) Ruijie Networks Co.,LTD
No. 2, 7th floor, xingwangruijie, haixi hi-tech industrial park, high-tech zone, fuzhou city
Fuzhou Fujian 350002
CN

94-18-65 (hex) NETGEAR
941865 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

A8-58-7C (hex) Shoogee GmbH & Co. KG

A8587C (base 16) Shoogee GmbH & Co. KG
Alter Fischmarkt 11a
Muenster Nordrhein-Westfalen 48143
DE

38-1E-C7 (hex) Chipsea Technologies(Shenzhen)
Corp.
381EC7 (base 16) Chipsea Technologies(Shenzhen) Corp.
9F,Block A,Garden City Digital Building,No.1079 Nanhai Road,Nanshan District,Shenzhen
Shenzhen 518000
CN

90-F2-60 (hex) Shenzhen Honesty Electronics Co.,Ltd.
90F260 (base 16) Shenzhen Honesty Electronics Co.,Ltd.
5/F,Zone B,Chitat Industrial Park,West Longping Road, Longgang District,Shenzhen City
Shenzhen Guangdong 518172
CN

18-89-CF (hex) TECNO MOBILE LIMITED
1889CF (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

D0-04-B0 (hex) Samsung Electronics Co.,Ltd
D004B0 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

98-B0-8B (hex) Samsung Electronics Co.,Ltd
98B08B (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

9C-25-95
(hex) Samsung Electronics Co.,Ltd
9C2595 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

04-BD-97 (hex) Cisco Systems, Inc
04BD97 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568

US

54-16-51 (hex) Ruijie Networks Co.,LTD
541651 (base 16) Ruijie Networks Co.,LTD
No. 2, 7th floor, xingwangruijie, haixi hi-tech industrial park, high-tech zone, fuzhou city
Fuzhou Fujian 350002
CN

60-BC-4C (hex) EWM Hightec Welding GmbH
60BC4C (base 16) EWM Hightec Welding GmbH
Dr.Günter-Henle-Str. 8
Mündersbach Rheinland Pfalz 56271
DE

0C-23-69 (hex) Honeywell SPS
0C2369 (base 16) Honeywell SPS
700 Visions Dr.
Skaneateles Falls NY 13153
US

AC-04-25 (hex) ball-b GmbH Co KG
AC0425 (base 16) ball-b GmbH Co KG
Saganer Strasse 14
Nuremberg Bavaria 90475
DE

A8-17-10 (hex) Bouffalo Lab (Nanjing) Co., Ltd.
A81710
(base 16) Bouffalo Lab (Nanjing) Co., Ltd.
5F, Gongxiang Space, No.100 Tuanjie Road, Nanjing, China
Nanjing Jiangsu 211800
CN

08-6A-E5 (hex) Amazon Technologies Inc.
086AE5 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

4C-E0-DB (hex) Xiaomi Communications Co Ltd
4CE0DB (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

7C-33-F9 (hex) HUAWEI TECHNOLOGIES CO.,LTD
7C33F9 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park

Dongguan 523808
CN

E8-EE-CC (hex) Fantasia Trading LLC
E8EECC (base 16) Fantasia Trading LLC
5350 Ontario Mills Pkwy, Suite 100
Ontario CA 91764
US

84-16-0C (hex) Broadcom Limited
84160C (base 16) Broadcom Limited
15191 Alton Parkway
Irvine CA 92618
US

20-9B-E6 (hex) Guangzhou Shiyuan Electronic
Technology Company Limited
209BE6 (base 16) Guangzhou Shiyuan Electronic Technology Company Limited
No.6, 4th Yunpu Road, Yunpu industry District
Guangzhou Guangdong 510530
CN

70-87-A7 (hex) Murata Manufacturing Co., Ltd.
7087A7 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

48-35-2B (hex) Apple, Inc.
48352B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

4C-E6-C0 (hex) Apple, Inc.
4CE6C0 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

38-88-A4 (hex) Apple, Inc.
3888A4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

44-DA-30 (hex) Apple, Inc.
44DA30 (base 16) Apple, Inc.

1 Infinite Loop
Cupertino CA 95014
US

A0-80-69 (hex) Intel Corporate
A08069 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

F4-38-C1 (hex) Huawei Device
Co., Ltd.
F438C1 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

28-EA-2D (hex) Apple, Inc.
28EA2D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B8-E6-0C (hex) Apple, Inc.
B8E60C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

38-F7-F1 (hex) Huawei Device Co., Ltd.
38F7F1 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

40-76-A9 (hex) Huawei Device Co., Ltd.
4076A9 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

A0-67-20 (hex) China Dragon Technology Limited
A06720 (base 16) China Dragon Technology Limited
B4 Bldg.Haoshan 1st Industry Park,
Shenzhen Guangdong 518104
CN

94-C9-B7 (hex) IEEE Registration Authority

94C9B7 (base 16) IEEE Registration Authority
445
Hoes Lane
Piscataway NJ 08554
US

20-72-A9 (hex) Beijing Xiaomi Electronics Co.,Ltd
2072A9 (base 16) Beijing Xiaomi Electronics Co.,Ltd
Xiaomi Campus
Beijing Beijing 100085
CN

1C-86-9A (hex) Samsung Electronics Co.,Ltd
1C869A (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

70-A8-D3 (hex) Intel Corporate
70A8D3 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

D8-FB-D6 (hex) Amazon Technologies Inc.
D8FBD6 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

9C-47-F9 (hex) LJU Automatisierungstechnik GmbH
9C47F9 (base 16) LJU Automatisierungstechnik GmbH
Am Schlahn 1
Potsdam Brandenburg D-14476
DE

00-06-4D (hex) Sencore
00064D (base 16) Sencore
3200 Sencore Dr.
Sioux Falls SD 57107
US

D0-62-2C (hex) Xi'an Yipu Telecom Technology Co.,Ltd.
D0622C
(base 16) Xi'an Yipu Telecom Technology Co.,Ltd.
Floor 5, Block C, Huanpu Industrial Park, 211 Tiangu 8th Road
Xi 'an Shaanxi 710076
CN

E0-56-89 (hex) Lootom Telcovideo Network (Wuxi) Co Ltd
E05689 (base 16) Lootom Telcovideo Network (Wuxi) Co Ltd
Lootom Industry Park, 182# Luou East Rd
Wuxi Jiangsu 214161
CN

2C-33-58 (hex) Intel Corporate
2C3358 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

20-62-96 (hex) Shenzhen Malio Technology Co.,Ltd
206296 (base 16) Shenzhen Malio Technology Co.,Ltd
Building B1, Shenzhen digital technology park, No. 16, Gaoxin South seventh Road, high tech Zone community, Yuehai street,Nanshan District
Shenzhen Guangdong 518000
CN

8C-B0-94 (hex) Airtech I&C Co., Ltd
8CB094 (base 16) Airtech I&C Co., Ltd
33B-9L #613-9, Namchon-dong
Namdong-gu Incheon 405-846
KR

EC-64-88 (hex) Honor Device Co., Ltd.
EC6488 (base
16) Honor Device Co., Ltd.
A1701, Block AB, Building 1, Tianan Yungu Phase I, Gangtou Community, Bantian Street
Shenzhen Guangdong 518129
CN

98-BE-DC (hex) Honor Device Co., Ltd.
98BEDC (base 16) Honor Device Co., Ltd.
A1701, Block AB, Building 1, Tianan Yungu Phase I, Gangtou Community, Bantian Street
Shenzhen Guangdong 518129
CN

50-58-B0 (hex) Hunan Greatwall Computer System Co., Ltd.
5058B0 (base 16) Hunan Greatwall Computer System Co., Ltd.
Hunan GreatWall Industrial Park, Tianyi Science and Technology City, Xiangyun Middle Road, Tianyuan District
Zhuzhou Hunan 412000
CN

3C-86-9A (hex) HUAWEI TECHNOLOGIES CO.,LTD
3C869A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park

Dongguan 523808
CN

E0-6C-F6 (hex) ESSENCORE limited
E06CF6 (base 16) ESSENCORE limited
Suite 4006, 40/F Central Plaza, 18 Harbour Road, Wanchai,
Hong Kong No code
HK

78-C6-2B
(hex) FUJIAN STAR-NET COMMUNICATION CO.,LTD
78C62B (base 16) FUJIAN STAR-NET COMMUNICATION CO.,LTD
19-22# Building, Star-net Science Plaza, Juyuanzhou,
FUZHOU FUJIAN 350002
CN

D4-66-24 (hex) Cisco Systems, Inc
D46624 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A0-2B-B8 (hex) Hewlett Packard
A02BB8 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

2C-27-68 (hex) HUAWEI TECHNOLOGIES CO.,LTD
2C2768 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

54-69-90 (hex) HUAWEI TECHNOLOGIES CO.,LTD
546990 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D8-0A-60 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D80A60 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake
Technology Park
Dongguan 523808
CN

0C-C6-FD (hex) Xiaomi Communications Co Ltd

0CC6FD (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

50-DA-D6 (hex) Xiaomi Communications Co Ltd
50DAD6 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

D4-F9-8D (hex) Espressif Inc.
D4F98D (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

9C-90-19 (hex) Beyless
9C9019 (base 16) Beyless
#725,42,Changeop-ro, Sujeong-gu
Seongnam-si Gyeonggi-do 13449
KR

E4-27-61 (hex) Honor Device Co., Ltd.
E42761 (base 16) Honor Device Co., Ltd.
A1701, Block AB, Building 1, Tianan Yungu Phase I, Gangtou Community, Bantian Street
Shenzhen Guangdong 518129
CN

A0-69-74 (hex) Honor Device Co.,
Ltd.
A06974 (base 16) Honor Device Co., Ltd.
A1701, Block AB, Building 1, Tianan Yungu Phase I, Gangtou Community, Bantian Street
Shenzhen Guangdong 518129
CN

14-01-9C (hex) Ubyon Inc.
14019C (base 16) Ubyon Inc.
10080 N. Wolfe Rd. SW3-200
Cupertino 95014
US

04-34-F6 (hex) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
0434F6 (base 16) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
No.19, Gaoxin 4th Road, Wuhan East Lake High-tech Zone, Wuhan
Wuhan Hubei 430000
CN

54-69-25 (hex) PS INODIC CO., LTD.
546925 (base 16) PS INODIC CO., LTD.
#407, 4F, 25-32, LS-ro 116beon-gil, Dongan-gu
Anyang-si Gyeonggi-do 14118
KR

78-13-E0 (hex) FUJIAN STAR-NET COMMUNICATION CO.,LTD
7813E0 (base 16) FUJIAN STAR-NET COMMUNICATION CO.,LTD
19-22# Building, Star-net Science Plaza, Juyuanzhou,
FUZHOU FUJIAN 350002
CN

48-61-EE (hex) Samsung Electronics Co.,Ltd
4861EE
(base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A8-4B-4D (hex) Samsung Electronics Co.,Ltd
A84B4D (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F4-F3-09 (hex) Samsung Electronics Co.,Ltd
F4F309 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

08-6F-48 (hex) Shenzhen iComm Semiconductor CO.,LTD
086F48 (base 16) Shenzhen iComm Semiconductor CO.,LTD
Room 504A,Block B,Digital Building,Gargen City,No.1079,Nanhai Road,Nanshan District,Shenzhen.
Shenzhen 518067
CN

E8-CB-ED (hex) Chipsea Technologies(Shenzhen) Corp.
E8CBED (base 16) Chipsea Technologies(Shenzhen) Corp.
9F,Block A,Garden City Digital Building,No.1079 Nanhai Road,Nanshan District,Shenzhen
Shenzhen 518000
CN

D0-78-80 (hex) Fiberhome Telecommunication Technologies Co.,LTD
D07880 (base 16) Fiberhome Telecommunication
Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074

CN

14-CB-65 (hex) Microsoft Corporation
14CB65 (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

78-57-B0 (hex) GERTEC BRASIL LTDA
7857B0 (base 16) GERTEC BRASIL LTDA
Avenida Jabaquara, 3060, room 601
Sao Paulo São Paulo 04046500
BR

34-08-E1 (hex) Texas Instruments
3408E1 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

18-B9-6E (hex) Dongguan Liesheng Electronic Co., Ltd.
18B96E (base 16) Dongguan Liesheng Electronic Co., Ltd.
F5, Building B, North Block, Gaosheng Tech Park, No. 84 Zhongli Road, Nancheng District, Dongguan Ci
dongguan guangdong 523000
CN

64-BE-63 (hex) STORDIS GmbH
64BE63 (base 16) STORDIS GmbH
Rosenwiesstr. 17
Stuttgart 70567
DE

F8-95-22 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F89522 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng
Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F8-B1-32 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F8B132 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C4-F1-22 (hex) Nexar Ltd.
C4F122 (base 16) Nexar Ltd.
58 HaRakevet st

Tel Aviv Tel Aviv 6777016
IL

60-07-C4 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
6007C4 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

E8-47-27 (hex) Quectel Wireless Solutions Co.,Ltd.
E84727 (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

28-C5-38 (hex) Apple, Inc.
28C538 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

04-99-B9 (hex) Apple, Inc.
0499B9 (base 16) Apple, Inc.
1 Infinite
Loop
Cupertino CA 95014
US

78-02-8B (hex) Apple, Inc.
78028B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

44-48-FF (hex) Qingdao Haier Technology Co.,Ltd
4448FF (base 16) Qingdao Haier Technology Co.,Ltd
Building A01,Haier Information Park, No.1 Haier Road,
Qingdao Shandong 266101
CN

04-C4-61 (hex) Murata Manufacturing Co., Ltd.
04C461 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

A0-82-22 (hex) Qingdao Haier Technology Co.,Ltd
A08222 (base 16) Qingdao Haier Technology Co.,Ltd

Building A01,Haier Information Park, No.1 Haier Road,
Qingdao Shandong 266101
CN

E0-1F-2B (hex) Nokia Solutions and Networks GmbH & Co. KG
E01F2B (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541
DE

08-16-D5 (hex) GOERTEK INC.
0816D5 (base 16) GOERTEK INC.
GoerTek
park one phase 4 # east unloading platform,The Corner of Weian road & Yingqian street, High-tech Zone, Weifang, Shandong, China 261031
weifang shandong 261031
CN

D4-D7-CF (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
D4D7CF (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

F4-E4-D7 (hex) FUJIAN STAR-NET COMMUNICATION CO.,LTD
F4E4D7 (base 16) FUJIAN STAR-NET COMMUNICATION CO.,LTD
19-22# Building, Star-net Science Plaza, Juyuanzhou,
FUZHOU FUJIAN 350002
CN

F8-4E-17 (hex) Sony Corporation
F84E17 (base 16) Sony Corporation
Sony City Osaki 2-10-1
Shinagawa-ku Tokyo 141-8610
JP

A8-C2-66 (hex) HUMAX Co., Ltd.
A8C266 (base 16) HUMAX Co., Ltd.
HUMAX Village, 216, Hwangsaeul-ro, Bu
Seongnam-si Gyeonggi-do 463-875
KR

AC-82-26 (hex) Qingdao Haier Technology Co.,Ltd
AC8226
(base 16) Qingdao Haier Technology Co.,Ltd
Building A01,Haier Information Park, No.1 Haier Road,
Qingdao Shandong 266101
CN

C8-CB-9E (hex) Intel Corporate
C8CB9E (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

54-0F-57 (hex) Silicon Laboratories
540F57 (base 16) Silicon Laboratories
400 West Cesar Chavez Street
Austin TX 78701
US

F8-4D-89 (hex) Apple, Inc.
F84D89 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

BC-DB-09 (hex) Cisco Meraki
BCDB09 (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco 94158
US

9C-2B-A6 (hex) Ruijie Networks Co.,LTD
9C2BA6 (base 16) Ruijie Networks Co.,LTD
No. 2, 7th floor, xingwangruijie, haixi hi-tech industrial park, high-tech zone, fuzhou city
Fuzhou Fujian 350002
CN

94-14-57 (hex) Shenzhen Sundray Technologies Company Limited
941457 (base 16) Shenzhen Sundray Technologies
Company Limited
5th Floor, Block A4, Nanshan ipark,NO.1001 Xue Yuan Road, Nanshan District, Shenzhen 518055, P.R. China
Shenzhen Guangdong 518057
CN

B8-98-AD (hex) Motorola Mobility LLC, a Lenovo Company
B898AD (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

64-B9-4E (hex) Dell Technologies
64B94E (base 16) Dell Technologies
Matam Park, Bld 8B, PO Box 15046 3190500 HAIFA ISRAEL
HAIFA HAIFA 15046

IL

54-47-E8 (hex) Syrotech Networks. Ltd.
5447E8 (base 16) Syrotech Networks. Ltd.
UNIT NO.-5 20F, KIN WING INDUSTERIAL BUILDING,33 KIN WING STREET
TUEN MUN 999077
HK

EC-2B-EB (hex) Amazon Technologies Inc.
EC2BEB (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

1C-AE-3E (hex) IEEE Registration Authority
1CAE3E (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

D0-C3-5A
(hex) Jabil Circuit de Chihuahua
D0C35A (base 16) Jabil Circuit de Chihuahua
C/O SPACE BORDER LOGISTICS, INC 9560 Joe Rodriguez Dr. Docks 17 & 18
El Paso TX 79927
US

84-B6-30 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
84B630 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

3C-55-76 (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
3C5576 (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

90-EB-48 (hex) Shanghai XinMiaoLink Technology Co., Ltd
90EB48 (base 16) Shanghai XinMiaoLink Technology Co., Ltd
Room 601,6F ,No.1399 Minsheng Road,Pudong New Area,Shanghai,China
Shanghai 200120
CN

18-53-45 (hex) Nokia
185345 (base 16) Nokia
600 March Road

Kanata
Ontario K2K 2E6
CA

E4-82-10 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E48210 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

70-52-D8 (hex) ITEL MOBILE LIMITED
7052D8 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

00-1D-5B (hex) Tecvan Informatica Ltda
001D5B (base 16) Tecvan Informatica Ltda
Rua Guaicurus, 145
Diadema São Paulo 09911-630
BR

1C-56-8E (hex) Zioncom Electronics (Shenzhen) Ltd.
1C568E (base 16) Zioncom Electronics (Shenzhen) Ltd.
A1&A2 Building,Lantian Technology Park, Xinyu Road, Xingqiao Henggang Block, Shajing Street, Baoan District
Shenzhen Guangdong 518000
CN

28-56-3A (hex) Fiberhome Telecommunication Technologies Co.,LTD
28563A (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan
Hubei 430074
CN

BC-57-29 (hex) Shenzhen KKM Co., Ltd
BC5729 (base 16) Shenzhen KKM Co., Ltd
Room 3B,Building 6A, BaoNeng Park, QingXiang Road, LongHua District
ShenZhen Guangdong 518000
CN

0C-CA-FB (hex) TPVision Europe B.V
0CCAFB (base 16) TPVision Europe B.V
Prins Bernhardplein 200
Amsterdam Noord-Holland 1097 JB
NL

F8-F7-B9 (hex) HUAWEI TECHNOLOGIES CO.,LTD

F8F7B9 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

20-7B-D2 (hex) ASIX Electronics Corporation
207BD2 (base 16) ASIX Electronics Corporation
4F, No. 8, Hsin Ann Road, Hsinchu Science Park
Hsinchu 30078
TW

68-77-24 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
687724 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

18-2D-F7
(hex) JY COMPANY
182DF7 (base 16) JY COMPANY
A-1811 Ho, SamboTechno Tower,122, Jomaru-ro 385 Beon-gil,
Buchenon-si Gyenggi-do 14556
KR

EC-2C-11 (hex) CWD INNOVATION LIMITED
EC2C11 (base 16) CWD INNOVATION LIMITED
101, First Floor, 439 Hasam Premji Building, Kalbadevi
Mumbai Maharashtra 400002
IN

D8-6C-5A (hex) HUMAX Co., Ltd.
D86C5A (base 16) HUMAX Co., Ltd.
HUMAX Village, 216, Hwangsaeul-ro, Bu
Seongnam-si Gyeonggi-do 463-875
KR

E4-C0-E2 (hex) Sagemcom Broadband SAS
E4C0E2 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

4C-3F-A7 (hex) uGrid Network Inc.
4C3FA7 (base 16) uGrid Network Inc.
602 Gabriola Way
Ottawa Ontario K2T 0M2
CA

20-67-E0 (hex) Shenzhen iComm Semiconductor CO.,LTD
2067E0 (base 16) Shenzhen iComm Semiconductor CO.,LTD
Room 504A,Block B,Digital Building,Gargen City,No.1079,Nanhai
Road,Nanshan District,Shenzhen.
Shenzhen 518067
CN

54-52-84 (hex) Huawei Device Co., Ltd.
545284 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

64-61-40 (hex) Huawei Device Co., Ltd.
646140 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C4-17-0E (hex) Huawei Device Co., Ltd.
C4170E (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

F0-CD-31 (hex) Samsung Electronics Co.,Ltd
F0CD31 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

64-01-FB (hex) Landis+Gyr GmbH
6401FB (base 16) Landis+Gyr GmbH
Humboldtstrasse 64
Nürnberg Bavaria 90459
DE

F0-35-75 (hex) Hui Zhou Gaoshengda Technology Co.,LTD
F03575 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.75,Zhongkai
High-Tech Development District,Huizhou
Hui Zhou Guangdong 516006
CN

90-81-75 (hex) Samsung Electronics Co.,Ltd
908175 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350

KR

30-74-67 (hex) Samsung Electronics Co.,Ltd
307467 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

58-C7-AC (hex) New H3C Technologies Co., Ltd
58C7AC (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

7C-83-34 (hex) IEEE Registration Authority
7C8334 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

24-97-45 (hex) HUAWEI TECHNOLOGIES CO.,LTD
249745 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C0-F5-35 (hex) AMPAK Technology,Inc.
C0F535 (base 16) AMPAK Technology,Inc.
3F,
No.15-1 Zhonghua Road, Hsinchu Industrail Park, Hukou,
Hsinchu Hsinchu,Taiwan R.O.C. 30352
TW

8C-3D-B1 (hex) Beijing H-IoT Technology Co., Ltd.
8C3DB1 (base 16) Beijing H-IoT Technology Co., Ltd.
1268, Building 2, No. 38, Kechuang Fifth Street, Beijing Economic and Technological Development Zone
Beijing Beijing 101111
CN

F4-23-9C (hex) SERNET (SUZHOU) TECHNOLOGIES CORPORATION
F4239C (base 16) SERNET (SUZHOU) TECHNOLOGIES CORPORATION
NO.8 Tangzhuang Road,Suzhou Industrial Park,Su ZhouCity,JiangSu Province,China
Suzhou 215021
CN

FC-A6-4C (hex) Alibaba cloud computing Co., Ltd
FCA64C (base 16) Alibaba cloud computing Co., Ltd
No.12, Zhuantang science and technology economic block, Xihu District

Hangzhou Zhejiang 310024
CN

E0-69-BA (hex) Cisco Systems, Inc
E069BA (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

24-36-DA (hex) Cisco Systems, Inc
2436DA
(base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

4C-EB-D6 (hex) Espressif Inc.
4CEBD6 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

F8-B5-4D (hex) Intel Corporate
F8B54D (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

38-A8-CD (hex) IEEE Registration Authority
38A8CD (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

54-67-06 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
546706 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

D8-A6-F0 (hex) Wu Qi Technologies,Inc.
D8A6F0 (base 16) Wu Qi Technologies,Inc.
14/F, 107 Middle Road, Xiantao Big Data Valley, Yubei District
Chongqing Chongqing 401120
CN

08-E4-DF (hex) Shenzhen Sande Dacom Electronics Co., Ltd
08E4DF

(base 16) Shenzhen Sande Dacom Electronics Co., Ltd
bantian
shenzhen Guangdong 518129
CN

14-58-08 (hex) Taicang T&W Electronics
145808 (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

C4-E5-32 (hex) Arcadyan Corporation
C4E532 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

10-5A-17 (hex) Tuya Smart Inc.
105A17 (base 16) Tuya Smart Inc.
160 Greentree Drive, Suite 101
Dover DE 19904
US

00-8A-76 (hex) Apple, Inc.
008A76 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

20-37-A5 (hex) Apple, Inc.
2037A5 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

DC-B5-4F (hex) Apple, Inc.
DCB54F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B8-37-4A (hex) Apple, Inc.
B8374A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA
95014
US

EC-7C-2C (hex) HUAWEI TECHNOLOGIES CO.,LTD
EC7C2C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

24-F6-03 (hex) HUAWEI TECHNOLOGIES CO.,LTD
24F603 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

08-FA-28 (hex) HUAWEI TECHNOLOGIES CO.,LTD
08FA28 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F4-B1-9C (hex) AltoBeam (China) Inc.
F4B19C (base 16) AltoBeam (China) Inc.
B808, Tsinghua Tongfang Hi-Tech Plaza, Haidian
Beijing Beijing 100083
CN

A8-D0-81 (hex) Huawei Device Co., Ltd.
A8D081 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

EC-C1-AB (hex) Guangzhou Shiyuan Electronic Technology Company Limited
ECC1AB
(base 16) Guangzhou Shiyuan Electronic Technology Company Limited
No.6, 4th Yunpu Road, Yunpu industry District
Guangzhou Guangdong 510530
CN

1C-9D-C2 (hex) Espressif Inc.
1C9DC2 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

90-6A-94 (hex) hangzhou huacheng network technology co., ltd
906A94 (base 16) hangzhou huacheng network technology co., ltd
Room 412, Building 2, No.2930, Nanhuan Road, Binjiang District
hangzhou zhejiang 310052
CN

10-0C-29 (hex) Shenzhen NORCO lntelligent Technology Co.,Ltd
100C29 (base 16) Shenzhen NORCO lntelligent Technology Co.,Ltd
6th Fl., Bldg. B, Shum Yip U Centre, Hangcheng Sub-district, Baoan District, Shenzhen
Shenzhen 518126
CN

00-00-C8 (hex) ALTOS COMPUTER SYSTEMS
0000C8 (base 16) ALTOS COMPUTER SYSTEMS
2641 ORCHARD PARKWAY
SAN JOSE CA 95134
US

74-32-C2 (hex) KYOLIS
7432C2
(base 16) KYOLIS
2 RUE DE LA RENAISSANCE
ANTONY 92160
FR

64-0E-9B (hex) ISHIDA MEDICAL CO., LTD.
640E9B (base 16) ISHIDA MEDICAL CO., LTD.
60-1 Shogoin Rengezocho, Sakyo-Ku
Kyoto-Shi Kyoto-Fu 606-8357
JP

24-42-BC (hex) Alinco,incorporated
2442BC (base 16) Alinco,incorporated
Yodoyabashi Dai-Bldg 13F,
Osaka Osaka pref. 541-0043
JP

18-FC-26 (hex) Qorvo International Pte. Ltd.
18FC26 (base 16) Qorvo International Pte. Ltd.
1 Changi Business Park Avenue 1
#04-01 486058
SG

00-CE-30 (hex) Express LUCK Industrial Ltd.
00CE30 (base 16) Express LUCK Industrial Ltd.
No. 88, Baotongnan Road, Xikeng, Yuanshan Street, Longgang District
Shenzhen Guangdong 518100
CN

5C-83-82 (hex) Nokia
5C8382 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6

CA

28-36-13 (hex) IEEE Registration Authority
283613 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway
NJ 08554
US

0C-AA-EE (hex) Ansjer Electronics Co., Ltd.
0CAAEE (base 16) Ansjer Electronics Co., Ltd.
4 Bldg., Pinglan Indl. Park, Nanping,
Zhuhai Guangdong 519060
CN

6C-11-B3 (hex) Wu Qi Technologies,Inc.
6C11B3 (base 16) Wu Qi Technologies,Inc.
14/F, 107 Middle Road, Xiantao Big Data Valley, Yubei District
Chongqing Chongqing 401120
CN

1C-2C-E0 (hex) Shanghai Mountain View Silicon
1C2CE0 (base 16) Shanghai Mountain View Silicon
Suite 4C, Building 3, 1238 Zhangjiang Rd., Pudong
Shanghai 201210
CN

74-0C-EE (hex) Huawei Device Co., Ltd.
740CEE (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

6C-B4-FD (hex) Huawei Device Co., Ltd.
6CB4FD (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

0C-0E-76 (hex) D-Link International
0C0E76 (base
16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

38-B8-00 (hex) Wistron Neweb Corporation
38B800 (base 16) Wistron Neweb Corporation

No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu R.O.C. 308
TW

70-3E-97 (hex) Iton Technology Corp.
703E97 (base 16) Iton Technology Corp.
Room 1302, Block A, Building 4, Tianan Cyber Park, Huangge Road,Longgang District
Shenzhen Guangdong 518116
CN

10-47-38 (hex) Nokia Shanghai Bell Co., Ltd.
104738 (base 16) Nokia Shanghai Bell Co., Ltd.
No.388 Ning Qiao Road,Jin Qiao Pudong Shanghai
Shanghai 201206
CN

A0-94-1A (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
A0941A (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

F8-CA-85 (hex) NEC Corporation
F8CA85 (base 16) NEC Corporation
7-1 Shiba 5-chome
Minato-Ku
Tokyo 108-8001
JP

DC-ED-83 (hex) Beijing Xiaomi Mobile Software Co., Ltd
DCED83 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

BC-D7-D4 (hex) Roku, Inc
BCD7D4 (base 16) Roku, Inc
1155 Coleman Ave
San Jose CA 95110
US

AC-0B-FB (hex) Espressif Inc.
AC0BFB (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

B4-1C-AB (hex) ICR, inc.

B41CAB (base 16) ICR, inc.
6200 S Main St Suite 200
Aurora CO 80016
US

CC-31-2A (hex) HUIZHOU TCL COMMUNICATION ELECTRON CO.,LTD
CC312A (base 16) HUIZHOU TCL COMMUNICATION ELECTRON CO.,LTD
2nd Floor, Building 1,Dongnan Jiahao Industrial Park,NO.3 Donghe South Road, Dongxing District,Dongjiang high-tech Zone
Huizhou Guangdong 516055
CN

30-0E-B8 (hex) LG Electronics
300EB8 (base 16) LG
Electronics
222 LG-ro, JINWI-MYEON
Pyeongtaek-si Gyeonggi-do 451-713
KR

94-5A-FC (hex) Amazon Technologies Inc.
945AFC (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

00-D7-6D (hex) Intel Corporate
00D76D (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

2C-11-65 (hex) Silicon Laboratories
2C1165 (base 16) Silicon Laboratories
400 West Cesar Chavez Street
Austin TX 78701
US

1C-2A-8B (hex) Nokia
1C2A8B (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

BC-33-29 (hex) Sony Interactive Entertainment Inc.
BC3329 (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

A8-89-40 (hex) Huawei Device Co., Ltd.
A88940 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

30-B0-37 (hex) New H3C Technologies Co., Ltd
30B037
(base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

20-B8-68 (hex) Motorola Mobility LLC, a Lenovo Company
20B868 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

28-9C-6E (hex) Shanghai High-Flying Electronics Technology Co., Ltd
289C6E (base 16) Shanghai High-Flying Electronics Technology Co., Ltd
Room 1002,#1Building,No.3000 Longdong Avenue,Pudong
Shanghai Shanghai 201202
CN

FC-12-2C (hex) HUAWEI TECHNOLOGIES CO.,LTD
FC122C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

6C-D1-E5 (hex) HUAWEI TECHNOLOGIES CO.,LTD
6CD1E5 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

84-F7-03 (hex) Espressif Inc.
84F703 (base 16) Espressif
Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

A8-5B-36 (hex) IEEE Registration Authority
A85B36 (base 16) IEEE Registration Authority
445 Hoes Lane

Piscataway NJ 08554
US

30-39-A9 (hex) Hongshan Information Science and Technology (HangZhou) Co.,Ltd.
3039A9 (base 16) Hongshan Information Science and Technology (HangZhou) Co.,Ltd.
32 / F, Yuesheng International Center, Pinglan Road, Xiaoshan District, Hangzhou, Zhejiang Province
Hangzhou Zhejiang Province 311215
CN

FC-D9-08 (hex) Xiaomi Communications Co Ltd
FCD908 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

1C-57-3E (hex) Altice Labs S.A.
1C573E (base 16) Altice Labs S.A.
NIF 504705610, Rua Eng. José Ferreira Pinto Basto
Aveiro 3810-106
PT

D0-16-7C (hex) eero inc.
D0167C (base 16) eero inc.
660
3rd Street
San Francisco CA 94107
US

84-14-4D (hex) Intel Corporate
84144D (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

44-D5-CC (hex) Amazon Technologies Inc.
44D5CC (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

48-5A-67 (hex) Shaanxi Ruixun Electronic Information Technology Co., Ltd
485A67 (base 16) Shaanxi Ruixun Electronic Information Technology Co., Ltd
11th Floor, Building A, Xi 'an National Digital Publishing Base, No. 996, Tiangu 7th Road, Software New City, Xi 'an High-tech Zone, Shaanxi Province
Xi’an Shaanxi 710000
CN

9C-6B-F0 (hex) Shenzhen Yipingfang Network Technology Co., Ltd.

9C6BF0 (base 16) Shenzhen Yipingfang Network Technology Co., Ltd.
21 / F, Kangjia R & D building, No.28, Keji South 12th Road, Nanshan District, Shenzhen City, Guangdong Province, China
Shenzhen Nanshan District 518000
CN

44-95-3B (hex) RLTech
India Private Limited
44953B (base 16) RLTech India Private Limited
C-2, Sector-85, Noida
Gautam Buddha Nagar Uttar Pradesh 201301
IN

4C-77-CB (hex) Intel Corporate
4C77CB (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

64-C4-03 (hex) Quectel Wireless Solutions Co.,Ltd.
64C403 (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

EC-94-68 (hex) META SYSTEM SPA
EC9468 (base 16) META SYSTEM SPA
VIA LAGHETTO 1
MORNAGO, VARESE ITALY 21020
IT

1C-41-90 (hex) Universal Electronics, Inc.
1C4190 (base 16) Universal Electronics, Inc.
201 E. Sandpointe Ave
Santa Ana CA 92707
US

00-00-5B (hex) ELTEC ELEKTRONIK AG
00005B (base 16) ELTEC ELEKTRONIK AG
Galileo-Galilei-Strasse 11

DE

94-5C-9A (hex) Apple, Inc.
945C9A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino

CA 95014
US

00-F3-9F (hex) Apple, Inc.
00F39F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

64-C3-94 (hex) HUAWEI TECHNOLOGIES CO.,LTD
64C394 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

8C-1F-64 (hex) IEEE Registration Authority
8C1F64 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

F4-7B-09 (hex) Intel Corporate
F47B09 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

E8-78-29 (hex) IEEE Registration Authority
E87829 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

50-32-5F (hex) Silicon Laboratories
50325F (base 16) Silicon Laboratories
400 West Cesar Chavez Street
Austin TX 78701
US

FC-8A-3D (hex) zte corporation
FC8A3D (base 16) zte corporation
12/F.,zte
R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

70-5F-A3 (hex) Xiaomi Communications Co Ltd
705FA3 (base 16) Xiaomi Communications Co Ltd

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

3C-62-F0 (hex) Sercomm Corporation.
3C62F0 (base 16) Sercomm Corporation.
3F,No.81,Yu-Yih Rd.,Chu-Nan Chen
Miao-Lih Hsuan 115
TW

98-3B-67 (hex) DWnet Technologies(Suzhou) Corporation
983B67 (base 16) DWnet Technologies(Suzhou) Corporation
No.8,Tangzhuang Road, Suzhou Industrial Park, Jiangsu, China
Suzhou 21500
CN

08-5A-11 (hex) D-Link International
085A11 (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

6C-93-92 (hex) BEKO Technologies GmbH
6C9392 (base 16) BEKO Technologies GmbH
Im Taubental 7
Neuss Nordrhein-Westfalen 41468
DE

58-35-5D (hex) Huawei
Device Co., Ltd.
58355D (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

AC-7E-01 (hex) Huawei Device Co., Ltd.
AC7E01 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

D0-17-69 (hex) Murata Manufacturing Co., Ltd.
D01769 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

3C-BD-D8 (hex) LG ELECTRONICS INC

3CBDD8 (base 16) LG ELECTRONICS INC
19-1, CHEONGHO-RI, JINWI-MYEON
PYEONGTAEK GYEONGGI-DO 451-713
KR

54-C2-50 (hex) Iskratel d.o.o.
54C250 (base 16) Iskratel d.o.o.
Ljubljanska cesta 24a
Kranj 4000
SI

00-FA-B6 (hex) Kontakt Micro-Location Sp z o.o.
00FAB6 (base 16) Kontakt Micro-Location Sp z o.o.
Stoczniowcow 3
Krakow 30-709
PL

30-B3-46 (hex) CJSC NORSI-TRANS
30B346 (base 16) CJSC NORSI-TRANS
B.Novodmitrovskaya,
12/15 floor 2 r. 36
Moscow MOSCOW 127015
RU

00-04-B8 (hex) Kumahira Co., Ltd.
0004B8 (base 16) Kumahira Co., Ltd.
4-34 Ujinahigashi 2-Chome
JAPAN 734-8567
JP

00-0B-3A (hex) PESA Inc.
000B3A (base 16) PESA Inc.
103 Quality Circle, Suite 210
Huntsville AL 35806
US

A0-B0-86 (hex) Hirschmann Automation and Control GmbH
A0B086 (base 16) Hirschmann Automation and Control GmbH
Stuttgarter Straße 45-51
Neckartenzlingen D-72654
DE

F0-C8-14 (hex) SHENZHEN BILIAN ELECTRONIC CO.LTD
F0C814 (base 16) SHENZHEN BILIAN ELECTRONIC CO.LTD
NO.268? Fuqian Rd, Jutang community, Guanlan Town, Longhua New district
shenzhen guangdong 518000
CN

18-74-E2 (hex) IEEE Registration Authority
1874E2 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

70-B9-50 (hex) Texas Instruments
70B950 (base 16) Texas Instruments
12500
TI Blvd
Dallas TX 75243
US

78-1C-5A (hex) SHARP Corporation
781C5A (base 16) SHARP Corporation
22-22,Nagaike-cho
Osaka city Osaka prefecture 545-8522
JP

C4-5E-5C (hex) HUAWEI TECHNOLOGIES CO.,LTD
C45E5C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

5C-E4-2A (hex) Intel Corporate
5CE42A (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

20-C1-9B (hex) Intel Corporate
20C19B (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

2C-6D-C1 (hex) Intel Corporate
2C6DC1 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

7C-F4-62 (hex) BEIJING HUAWOO TECHNOLOGIES CO.LTD
7CF462 (base 16) BEIJING HUAWOO TECHNOLOGIES CO.LTD
A411-3, floor 3, block A, 9 Shangdi 3rd Street, Haidian District, Beijing
beijing 100094
CN

D0-9F-D9
(hex) IEEE Registration Authority
D09FD9 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

04-B9-E3 (hex) Samsung Electronics Co.,Ltd
04B9E3 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

94-AA-0A (hex) Fiberhome Telecommunication Technologies Co.,LTD
94AA0A (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

E8-5C-0A (hex) Cisco Systems, Inc
E85C0A (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

C8-05-9E (hex) Hefei Symboltek Co.,Ltd
C8059E (base 16) Hefei Symboltek Co.,Ltd
Standard factory building 2 layer,Tianmen Lake 1#,No.36 Fairview Avenue District Econmic Development Zone Hefei, Anhui
Hefei Anhui 230601
CN

34-FC-A1 (hex) Micronet union Technology(Chengdu)Co., Ltd.
34FCA1 (base 16) Micronet union Technology(Chengdu)Co.,
Ltd.
No.502, Building 5, No. 528, Yuefei Road, Shibantan Street, Xindu District
Chengdu Sichuan 610000
CN

10-7B-CE (hex) Nokia
107BCE (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

28-97-B8 (hex) myenergi Ltd
2897B8 (base 16) myenergi Ltd

Church View Business Centre, Binbrook
Market Rasen Lincolnshire LN8 6BY
GB

20-41-5A (hex) Smarteh d.o.o.
20415A (base 16) Smarteh d.o.o.
Trg tigrovcev 1
Tolmin 5220
SI

B0-A7-B9 (hex) TP-Link Corporation Limited
B0A7B9 (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

6C-5A-B0 (hex) TP-Link Corporation Limited
6C5AB0 (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

60-E6-F0 (hex) Wistron Neweb Corporation
60E6F0 (base 16) Wistron Neweb
Corporation
No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu R.O.C. 308
TW

C8-F5-D6 (hex) IEEE Registration Authority
C8F5D6 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

98-43-FA (hex) Intel Corporate
9843FA (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

20-D2-76 (hex) ITEL MOBILE LIMITED
20D276 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

08-A8-42 (hex) Huawei Device Co., Ltd.

08A842 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

B8-25-B5 (hex) Trakm8 Ltd
B825B5 (base 16) Trakm8 Ltd
4 Roman Park, Roman Way
Coleshill West Midlands B46 1HG
GB

40-58-99 (hex) Logitech Far East
405899 (base 16) Logitech Far East
#2 Creation Rd. 4,
Hsinchu
300
TW

F4-4E-38 (hex) Olibra LLC
F44E38 (base 16) Olibra LLC
45 legin dr
creskill NJ 07626
US

20-1F-3B (hex) Google, Inc.
201F3B (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

A0-D7-22 (hex) Samsung Electronics Co.,Ltd
A0D722 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

50-49-B0 (hex) Samsung Electronics Co.,Ltd
5049B0 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

E8-05-DC (hex) Verifone Inc.
E805DC (base 16) Verifone Inc.
2560 North First Street, Suite 220
San Jose CA 95131
US

00-0C-DF (hex) JAI Manufacturing
000CDF (base 16) JAI Manufacturing
2960-14 Uenojo Nishikata
Kushima Miyazaki 888-0004
JP

C4-A1-51 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
C4A151 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow
Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

78-47-E3 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
7847E3 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
NO.198 FIRST SECTION,SNOW MOUNTAIN AVENUE, JINYUAN TOWN, DAYI COUNTY,
CHENGDU SICHUAN 611330
CN

00-00-B8 (hex) SEIKOSHA CO., LTD.
0000B8 (base 16) SEIKOSHA CO., LTD.
SYSTEM EQUIPMENT DIVISION

JP

D0-35-E5 (hex) EM Microelectronic
D035E5 (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

90-96-F3 (hex) BUFFALO.INC
9096F3 (base 16) BUFFALO.INC
AKAMONDORI Bld.,30-20,Ohsu 3-chome,Naka-ku
Nagoya Aichi Pref. 460-8315
JP

54-0E-58 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
540E58 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

5C-64-8E (hex) Zyxel Communications Corporation
5C648E
(base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300

TW

30-E3-96 (hex) Huawei Device Co., Ltd.
30E396 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

D0-7D-33 (hex) Huawei Device Co., Ltd.
D07D33 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C0-E1-BE (hex) HUAWEI TECHNOLOGIES CO.,LTD
C0E1BE (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

88-E0-56 (hex) HUAWEI TECHNOLOGIES CO.,LTD
88E056 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

2C-8D-B1 (hex) Intel Corporate
2C8DB1 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

58-6C-25
(hex) Intel Corporate
586C25 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

2C-C8-1B (hex) Routerboard.com
2CC81B (base 16) Routerboard.com
Mikrotikls SIA
Riga Riga LV1009
LV

04-27-28 (hex) Microsoft Corporation
042728 (base 16) Microsoft Corporation
One Microsoft Way

REDMOND WA 98052
US

A4-9B-CD (hex) Cisco Systems, Inc
A49BCD (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

B4-E3-F9 (hex) Silicon Laboratories
B4E3F9 (base 16) Silicon Laboratories
400 West Cesar Chavez Street
Austin TX 78701
US

20-66-CF (hex) FREEBOX SAS
2066CF (base 16) FREEBOX SAS
16 rue de la Ville l'Eveque
PARIS IdF 75008
FR

F0-92-B4 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
F092B4 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12, TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road,
Chengdu
Sichuan 610000
CN

EC-F8-EB (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
ECF8EB (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12, TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road,
Chengdu Sichuan 610000
CN

2C-63-73 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
2C6373 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12, TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road,
Chengdu Sichuan 610000
CN

E0-92-5C (hex) Apple, Inc.
E0925C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-11-6C (hex) Nanwang Multimedia Inc.,Ltd
00116C (base 16) Nanwang Multimedia Inc.,Ltd

Floor 12,Tianyuan Bldg,Wensan Rd#508
Hangzhou Zhejiang 310013
CN

28-F4-9B (hex) LEETEK
28F49B (base 16) LEETEK
Ojeong-ro, 47
Bucheon-si Gyeonggi-do 14445
KR

18-42-D4 (hex) Wuhan Hosan Telecommunication Technology Co.,Ltd
1842D4
(base 16) Wuhan Hosan Telecommunication Technology Co.,Ltd
Fourth Floor,Building N,Quannengtong Shuangchuang Yuan,Gold-silver Lake Street,East West Lake District,
Wuhan Hubei 430043
CN

A8-63-7D (hex) D-Link International
A8637D (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

D8-E7-2B (hex) NETSCOUT SYSTEMS INC
D8E72B (base 16) NETSCOUT SYSTEMS INC
310 Littleton Road
Westford MA 01886
US

78-E3-6D (hex) Espressif Inc.
78E36D (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

14-5A-FC (hex) Liteon Technology Corporation
145AFC (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

EC-15-3D (hex) Beijing Yaxunhongda Technology Co., Ltd.
EC153D (base 16) Beijing Yaxunhongda Technology Co., Ltd.
East area,4th floor,No.5,Shangdi
5th Street Haidian District,Beijing
Beijing Beijing 100000
CN

D8-A3-5C (hex) Samsung Electronics Co.,Ltd
D8A35C (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

C0-92-96 (hex) zte corporation
C09296 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

50-E2-4E (hex) zte corporation
50E24E (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

2C-43-BE (hex) Sunnovo International Limited
2C43BE (base 16) Sunnovo International Limited
1717 Haitai Building
Beijing Beijing 100083
CN

58-10-B7 (hex) Infinix mobility limited
5810B7 (base 16) Infinix mobility limited
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
HongKong HongKong 999077
HK

1C-91-80 (hex) Apple,
Inc.
1C9180 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

4C-B9-10 (hex) Apple, Inc.
4CB910 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B4-89-01 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B48901 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808

CN

44-9B-C1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
449BC1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

20-25-D2 (hex) Fiberhome Telecommunication Technologies Co.,LTD
2025D2 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

34-86-5D (hex) Espressif Inc.
34865D (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

00-01-39 (hex) Point Multimedia Systems
000139
(base 16) Point Multimedia Systems
4Ra 507, Shihwa Industrial Complex
Korea 425-110
KR

B0-24-91 (hex) Huawei Device Co., Ltd.
B02491 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

98-75-1A (hex) Huawei Device Co., Ltd.
98751A (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

18-BF-B3 (hex) Samsung Electronics Co., Ltd., Memory Division
18BFB3 (base 16) Samsung Electronics Co., Ltd., Memory Division
1, Samsungjeonja-ro
Hwaseong-si Gyeonggi-do 18448
KR

08-2C-ED (hex) Technity Solutions Inc.
082CED (base 16) Technity Solutions Inc.
100 West Beaver Creek Rd, Unit 13

Richmond Hill Ontario L4B 1H4
CA

1C-A0-EF (hex) IEEE Registration Authority
1CA0EF (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

6C-1B-3F (hex) MiraeSignal
Co., Ltd
6C1B3F (base 16) MiraeSignal Co., Ltd
#701,C-dong Bundang Techno Park Pangyoro 744
Bundang-gu Sungnam-si Kyungkido 13510
KR

B0-3D-C2 (hex) Wasp artificial intelligence(Shenzhen) Co.,ltd
B03DC2 (base 16) Wasp artificial intelligence(Shenzhen) Co.,ltd
A402,Block ABCD,Building 3,Phase 1,Tianan Yungu Industrial Park,Gangtou Comunity,Bantian Street,Longhua District,Shenzhen
Shenzhen Select State 518000
CN

C8-4D-34 (hex) LIONS Taiwan Technology Inc.
C84D34 (base 16) LIONS Taiwan Technology Inc.
3F-2, 120, Sec. 2, Gongdao 5th Rd.
Hsinchu Taiwan 30072
TW

44-6F-F8 (hex) Dyson Limited
446FF8 (base 16) Dyson Limited
Tetbury Hill
Malmesbury Wiltshire SN16 0RP
GB

9C-76-13 (hex) Ring LLC
9C7613 (base 16) Ring LLC
1523 26th St
Santa Monica CA 90404
US

D0-97-FE (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
D097FE (base 16) Realme Chongqing Mobile Telecommunications
Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

84-3A-5B (hex) Inventec(Chongqing) Corporation
843A5B (base 16) Inventec(Chongqing) Corporation
No.66 West District 2nd Rd, Shapingba District
Chongqing Chongqing 401331
CN

28-AF-FD (hex) Cisco Systems, Inc
28AFFD (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

EC-93-65 (hex) Mapper.ai, Inc.
EC9365 (base 16) Mapper.ai, Inc.
400 Treat Ave, Suite G
San Francisco CA 94110
US

D8-EB-46 (hex) Google, Inc.
D8EB46 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

78-10-53 (hex) China Mobile Group Device Co.,Ltd.
781053 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

F8-3E-95 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F83E95 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2
Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

48-12-58 (hex) HUAWEI TECHNOLOGIES CO.,LTD
481258 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

CC-32-96 (hex) Huawei Device Co., Ltd.
CC3296 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

2C-17-E0 (hex) SYSTEMES ET TECHNOLOGIES IDENTIFICATION (STid)
2C17E0 (base 16) SYSTEMES ET TECHNOLOGIES IDENTIFICATION (STid)
20 Parc d'activités des Pradeaux
GREASQUE Select State F-13850
FR

54-49-DF (hex) Peloton Interactive, Inc
5449DF (base 16) Peloton Interactive, Inc
158 W 27th St, 4th Fl
New York NY 10001
US

98-CD-AC (hex) Espressif Inc.
98CDAC (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

80-8A-F7
(hex) Nanoleaf
808AF7 (base 16) Nanoleaf
100 Front Street East, 4th Floor
Toronto Ontario M5A 1E1
CA

18-2A-57 (hex) HUAWEI TECHNOLOGIES CO.,LTD
182A57 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

08-47-4C (hex) Nokia
08474C (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

90-C1-19 (hex) Nokia
90C119 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

D8-CD-2C (hex) WUXI NEIHUA NETWORK TECHNOLOGY CO., LTD
D8CD2C (base 16) WUXI NEIHUA NETWORK TECHNOLOGY CO., LTD
16 Lexing Road, Xinwu District
Wuxi Jiangsu 214000

CN

7C-F8-80 (hex) Cisco Systems, Inc
7CF880 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

60-A7-51 (hex) Huawei Device Co., Ltd.
60A751 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan
Guangdong 523808
CN

10-2B-41 (hex) Samsung Electronics Co.,Ltd
102B41 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

34-4A-C3 (hex) HuNan ZiKun Information Technology CO., Ltd
344AC3 (base 16) HuNan ZiKun Information Technology CO., Ltd
101-8, 1st Floor, Juxing Venture Base, No. 8 Lujing Road, GaoXin Development District
Changsha City Hunan Province 410000
CN

98-1A-35 (hex) HUAWEI TECHNOLOGIES CO.,LTD
981A35 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-E4-21 (hex) Sony Interactive Entertainment Inc.
00E421 (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

D8-5E-D3 (hex) GIGA-BYTE TECHNOLOGY CO.,LTD.
D85ED3 (base 16) GIGA-BYTE TECHNOLOGY CO.,LTD.
Pin-Jen City, Taoyuan, Taiwan, R.O.C.
Pin-Jen Taoyuan 324
TW

24-9A-D8
(hex) YEALINK(XIAMEN) NETWORK TECHNOLOGY CO.,LTD.
249AD8 (base 16) YEALINK(XIAMEN) NETWORK TECHNOLOGY CO.,LTD.

309, 3th Floor, No.16, Yun Ding North Road, Huli District
xiamen Fujian 361015
CN

F8-45-C4 (hex) Shenzhen Netforward Micro-Electronic Co., Ltd.
F845C4 (base 16) Shenzhen Netforward Micro-Electronic Co., Ltd.
Room 611-2?6st Floor,Building 1, The Sunmax Technology Park, No 8 Keyuan Road, Nanshan District
Shenzhen Guangdong 518000
CN

68-2D-83 (hex) SHENZHEN DINGHE COMMUNICATION COMPANY
682D83 (base 16) SHENZHEN DINGHE COMMUNICATION COMPANY
ROOM 1802, BAOYUNDA WULIU INFORMATION BUILDING
SHENZHEN GUANGDONG 518101
CN

A8-43-97 (hex) Innogrit Corporation
A84397 (base 16) Innogrit Corporation
1735 Technology Dr, Suite 620
San Jose CA 95110
US

8C-AA-CE (hex) Xiaomi Communications Co Ltd
8CAACE (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle
Road
Beijing Haidian District 100085
CN

E8-9F-39 (hex) Nokia
E89F39 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

B0-22-7A (hex) HP Inc.
B0227A (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

80-34-28 (hex) Microchip Technology Inc.
803428 (base 16) Microchip Technology Inc.
2355 W. Chandler Blvd.
Chandler AZ 85224
US

40-3F-8C (hex) TP-LINK TECHNOLOGIES CO.,LTD.

403F8C (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

CC-DB-04 (hex) DataRemote Inc.
CCDB04 (base 16) DataRemote Inc.
18001 Old Cutler Rd. Suite 600
Palmetto Bay FL 33157
US

04-D6-F4 (hex) GD Midea Air-Conditioning Equipment Co.,Ltd.
04D6F4 (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
Midea Global Innovation Center,Beijiao Town,Shunde
Foshan
Guangdong 528311
CN

D4-35-1D (hex) Technicolor Delivery Technologies Belgium NV
D4351D (base 16) Technicolor Delivery Technologies Belgium NV
Prins Boudewijnlaan 47
Edegem - Belgium B-2650
BE

F8-AA-3F (hex) DWnet Technologies(Suzhou) Corporation
F8AA3F (base 16) DWnet Technologies(Suzhou) Corporation
No.8,Tangzhuang Road, Suzhou Industrial Park, Jiangsu, China
Suzhou 21500
CN

0C-CF-89 (hex) SHENZHEN BILIAN ELECTRONIC CO.LTD
0CCF89 (base 16) SHENZHEN BILIAN ELECTRONIC CO.LTD
NO.268? Fuqian Rd, Jutang community, Guanlan Town, Longhua New district
shenzhen guangdong 518000
CN

0C-8C-69 (hex) Shenzhen elink smart Co., ltd
0C8C69 (base 16) Shenzhen elink smart Co., ltd
Floor 2,Building A , Hongtian Xinfengze Industrial Park Huang Pu Community , Xin Qiao District ,Baoan Area
shenzhen Guangdong Province 518101
CN

C8-94-02 (hex) CHONGQING FUGUI ELECTRONICS CO.,LTD.
C89402 (base 16) CHONGQING
FUGUI ELECTRONICS CO.,LTD.
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

7C-B9-4C (hex) Bouffalo Lab (Nanjing) Co., Ltd.
7CB94C (base 16) Bouffalo Lab (Nanjing) Co., Ltd.
5F, Gongxiang Space, No.100 Tuanjie Road, Nanjing, China
Nanjing Jiangsu 211800
CN

C8-33-E5 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C833E5 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

58-FC-20 (hex) Altice Labs S.A.
58FC20 (base 16) Altice Labs S.A.
NIF 504705610, Rua Eng. José Ferreira Pinto Basto
Aveiro 3810-106
PT

B8-44-AE (hex) TCT mobile ltd
B844AE (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

E4-F7-5B (hex) ARRIS Group, Inc.
E4F75B (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

F8-79-0A
(hex) ARRIS Group, Inc.
F8790A (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

1C-93-7C (hex) ARRIS Group, Inc.
1C937C (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-68-2B (hex) Huawei Device Co., Ltd.
00682B (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808

CN

98-AD-1D (hex) Huawei Device Co., Ltd.
98AD1D (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

F0-77-C3 (hex) Intel Corporate
F077C3 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

04-90-81 (hex) Pensando Systems, Inc.
049081 (base 16) Pensando Systems, Inc.
570 Alder Drive
Milpitas CA 95035
US

4C-79-6E (hex) Intel Corporate
4C796E (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim
Kedah 09000
MY

F0-9E-4A (hex) Intel Corporate
F09E4A (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

AC-5A-FC (hex) Intel Corporate
AC5AFC (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

D8-BB-C1 (hex) Micro-Star INTL CO., LTD.
D8BBC1 (base 16) Micro-Star INTL CO., LTD.
No.69, Lide St.,
New Taipei City Taiwan 235
TW

DC-15-C8 (hex) AVM Audiovisuelles Marketing und Computersysteme GmbH
DC15C8 (base 16) AVM Audiovisuelles Marketing und Computersysteme GmbH
Alt-Moabit 95

Berlin Berlin 10559
DE

6C-D6-30 (hex) Rootous System Co.,Ltd
6CD630 (base 16) Rootous System Co.,Ltd
KT B/D 4Floor, 100, Ahopgeori-gil
Yeonseo-myeon Sejong-si 30049
KR

84-D3-43 (hex) Calix Inc.
84D343 (base 16) Calix Inc.
2777 Orchard Pkwy
San Jose CA 95131
US

38-B5-D3 (hex) SecuWorks
38B5D3 (base 16) SecuWorks
#709,
218 Gajeong-ro
Yuseong -gu Daejeon 34129
KR

34-8A-12 (hex) Aruba, a Hewlett Packard Enterprise Company
348A12 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

B0-68-E6 (hex) CHONGQING FUGUI ELECTRONICS CO.,LTD.
B068E6 (base 16) CHONGQING FUGUI ELECTRONICS CO.,LTD.
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

34-31-8F (hex) Apple, Inc.
34318F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C4-14-11 (hex) Apple, Inc.
C41411 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

CC-C9-5D (hex) Apple, Inc.
CCC95D (base 16) Apple, Inc.

1 Infinite Loop
Cupertino CA 95014
US

70-61-BE (hex) Wistron Neweb Corporation
7061BE (base 16) Wistron Neweb Corporation
No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu R.O.C. 308
TW

D8-47-BB
(hex) Huawei Device Co., Ltd.
D847BB (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

E8-6D-E9 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E86DE9 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

14-46-58 (hex) HUAWEI TECHNOLOGIES CO.,LTD
144658 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

58-BE-72 (hex) HUAWEI TECHNOLOGIES CO.,LTD
58BE72 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

10-8F-FE (hex) HUAWEI TECHNOLOGIES CO.,LTD
108FFE (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

44-6F-D8 (hex) IEEE Registration Authority
446FD8 (base 16) IEEE
Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

BC-D7-CE (hex) China Mobile (Hangzhou) Information Technology Co., Ltd.
BCD7CE (base 16) China Mobile (Hangzhou) Information Technology Co., Ltd.
No. 1600 Yuhangtang Road, Wuchang Street, Yuhang District, Hangzhou, Zhejiang
Hangzhou Zhejiang 310000
CN

9C-A5-70 (hex) eero inc.
9CA570 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

A0-41-2D (hex) Lansen Systems AB
A0412D (base 16) Lansen Systems AB
Skallebackavägen 3
Halmstad 30241
SE

2C-DD-0C (hex) Discovergy GmbH
2CDD0C (base 16) Discovergy GmbH
Pascalstraße 15
Aachen NRW 52076
DE

BC-9D-42 (hex) SHENZHEN RF-LINK TECHNOLOGY CO.,LTD.
BC9D42 (base 16) SHENZHEN RF-LINK TECHNOLOGY CO.,LTD.
Bldg56A,6/F,Baotian Rd3,Xixiang Town,Baoan District,
Shenzhen Guangdong 518000
CN

24-0B-88 (hex) Taicang T&W Electronics
240B88 (base 16) Taicang
T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

0C-93-8F (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
0C938F (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

C4-39-60 (hex) GD Midea Air-Conditioning Equipment Co.,Ltd.
C43960 (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
Midea Global Innovation Center,Beijiao Town,Shunde
Foshan Guangdong 528311
CN

44-B6-BE (hex) Cisco Systems, Inc
44B6BE (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

8C-DE-E6 (hex) Samsung Electronics Co.,Ltd
8CDEE6 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

10-EC-81 (hex) Samsung Electronics Co.,Ltd
10EC81 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C4-5D-83 (hex) Samsung Electronics Co.,Ltd
C45D83
(base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

9C-9C-1F (hex) Espressif Inc.
9C9C1F (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

D8-09-D6 (hex) ZEXELON CO., LTD.
D809D6 (base 16) ZEXELON CO., LTD.
195 Tonohiraga,
Matsudo-City Chiba 270-0004
JP

5C-A4-A4 (hex) Fiberhome Telecommunication Technologies Co.,LTD
5CA4A4 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

5C-BD-9A (hex) Huawei Device Co., Ltd.
5CBD9A (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808

CN

14-A3-B4 (hex) Huawei Device Co., Ltd.
14A3B4 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

EC-75-ED (hex) Citrix Systems, Inc.
EC75ED (base
16) Citrix Systems, Inc.
851 W Cypress Creek Rd
Fort Lauderdale FL 33309
US

8C-8C-AA (hex) LCFC(HeFei) Electronics Technology co., ltd
8C8CAA (base 16) LCFC(HeFei) Electronics Technology co., ltd
YunGu Road 3188-1
Hefei Anhui 230000
CN

74-04-F0 (hex) Mobiwire Mobiles (NingBo) Co., LTD
7404F0 (base 16) Mobiwire Mobiles (NingBo) Co., LTD
No.999 Dacheng East Road, Fenghua District, Ningbo City , Zhejiang Province, PRC
Ningbo Zhejiang 315500
CN

B4-B5-B6 (hex) CHONGQING FUGUI ELECTRONICS CO.,LTD.
B4B5B6 (base 16) CHONGQING FUGUI ELECTRONICS CO.,LTD.
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

04-7A-0B (hex) Beijing Xiaomi Electronics Co., Ltd.
047A0B (base 16) Beijing Xiaomi Electronics Co., Ltd.
Building C, QingHe ShunShiJiaYe Technology Park, #66 ZhuFang Rd, HaiDian District
Beijing Beijing 10085
CN

90-0F-0C (hex) CLOUD NETWORK
TECHNOLOGY SINGAPORE PTE. LTD.
900F0C (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

4C-11-54 (hex) Mobiwire Mobiles (NingBo) Co., LTD
4C1154 (base 16) Mobiwire Mobiles (NingBo) Co., LTD

No.999 Dacheng East Road, Fenghua District, Ningbo City , Zhejiang Province, PRC
Ningbo Zhejiang 315500
CN

C4-BF-60 (hex) TECNO MOBILE LIMITED
C4BF60 (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

D0-40-EF (hex) Murata Manufacturing Co., Ltd.
D040EF (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

2C-9A-A4 (hex) Eolo SpA
2C9AA4 (base 16) Eolo SpA
via Gran San Bernardo 12
Busto Arsizio
VA 21052
IT

18-D5-B6 (hex) SMG Holdings LLC
18D5B6 (base 16) SMG Holdings LLC
205 N Michigan Ave
Chicago IL 60601
US

70-F0-96 (hex) Cisco Systems, Inc
70F096 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A4-53-EE (hex) IEEE Registration Authority
A453EE (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

C8-A4-0D (hex) Cooler Master Technology Inc
C8A40D (base 16) Cooler Master Technology Inc
8F., No. 788-1, Zhongzheng Rd., Zhonghe Dist.
New Taipei City New Taipei City 23586
TW

BC-9A-53 (hex) Huawei Device Co., Ltd.
BC9A53 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

DC-27-27 (hex) Huawei Device Co., Ltd.
DC2727 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

F0-42-F5 (hex) Huawei
Device Co., Ltd.
F042F5 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

E0-2E-3F (hex) Huawei Device Co., Ltd.
E02E3F (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

00-22-36 (hex) VECTOR SP. Z O.O.
002236 (base 16) VECTOR SP. Z O.O.
KRZEMOWA 6
GDYNIA 81-577
PL

00-13-40 (hex) AD.EL s.r.l.
001340 (base 16) AD.EL s.r.l.
via S. Pertini,5
Martellago VENEZIA 30030
IT

4C-75-25 (hex) Espressif Inc.
4C7525 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

D0-56-BF (hex) AMOSENSE
D056BF (base 16) AMOSENSE
Narutu street 56
SEOUL Sucho gu 06527
KR

50-8E-49 (hex) Xiaomi Communications Co Ltd
508E49 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing
Haidian District 100085
CN

60-8D-26 (hex) Arcadyan Corporation
608D26 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

1C-39-29 (hex) OHSUNG
1C3929 (base 16) OHSUNG
335-4,SANHODAERO,GUMI,GYEONG BUK,KOREA
GUMI GYEONG BUK 730-030
KR

80-B9-7A (hex) eero inc.
80B97A (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

38-42-0B (hex) Sonos, Inc.
38420B (base 16) Sonos, Inc.
614 Chapala St
Santa Barbara CA 93101
US

8C-F3-19 (hex) Siemens Industrial Automation Products Ltd., Chengdu
8CF319 (base 16) Siemens Industrial Automation Products Ltd., Chengdu
Tianyuan Road No.99, High Tech Zone West
Chengdu Sichuan Province 611731
CN

48-70-1E (hex) Texas Instruments
48701E (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

AC-33-28 (hex) Huawei Device Co., Ltd.
AC3328 (base 16) Huawei
Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone

Dongguan Guangdong 523808
CN

78-CB-2C (hex) Join Digital, Inc.
78CB2C (base 16) Join Digital, Inc.
75 E Santa Clara St., 6th Floor
San Jose CA 95113
US

8C-47-6E (hex) IEEE Registration Authority
8C476E (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

74-D6-CB (hex) New H3C Technologies Co., Ltd
74D6CB (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

0C-3A-FA (hex) New H3C Technologies Co., Ltd
0C3AFA (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

B0-0C-D1 (hex) Hewlett Packard
B00CD1 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

2C-F0-5D (hex) Micro-Star INTL CO., LTD.
2CF05D (base 16) Micro-Star INTL CO., LTD.
No.69, Lide
St.,
New Taipei City Taiwan 235
TW

30-A0-23 (hex) ROCK PATH S.R.L
30A023 (base 16) ROCK PATH S.R.L
Via Federico Borromeo 2, 20017 Rho (MI), Italy
Milan 20017
IT

E8-48-B8 (hex) TP-Link Corporation Limited
E848B8 (base 16) TP-Link Corporation Limited

Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

00-02-F4 (hex) PCTEL, Inc.
0002F4 (base 16) PCTEL, Inc.
1331 California Circle
Milpitas CA 95035
US

30-9E-1D (hex) OHSUNG
309E1D (base 16) OHSUNG
335-4,SANHODAERO,GUMI,GYEONG BUK,KOREA
GUMI GYEONG BUK 730-030
KR

68-79-12 (hex) IEEE Registration Authority
687912 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

F8-66-5A (hex) Apple, Inc.
F8665A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

6C-E8-74 (hex) HUAWEI TECHNOLOGIES CO.,LTD
6CE874 (base 16) HUAWEI TECHNOLOGIES
CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C4-69-F0 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C469F0 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

BC-99-30 (hex) HUAWEI TECHNOLOGIES CO.,LTD
BC9930 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

60-BE-C4 (hex) Apple, Inc.

60BEC4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F8-B1-DD (hex) Apple, Inc.
F8B1DD (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A8-81-7E (hex) Apple, Inc.
A8817E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

18-B6-CC (hex) We Corporation Inc.
18B6CC (base 16) We Corporation Inc.
201, 33, Deokcheon-ro, Manan-gu
Anyang-si Gyeonggi-do 14088
KR

64-03-7F
(hex) Samsung Electronics Co.,Ltd
64037F (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B4-9D-02 (hex) Samsung Electronics Co.,Ltd
B49D02 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

80-9F-F5 (hex) Samsung Electronics Co.,Ltd
809FF5 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

E0-C3-77 (hex) Samsung Electronics Co.,Ltd
E0C377 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

4C-FB-F4 (hex) Optimal Audio Ltd
4CFBF4 (base 16) Optimal Audio Ltd
Century Point, Halifax Rd
High Wycombe HP12 3SL
GB

C0-94-35 (hex) ARRIS Group, Inc.
C09435 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

DC-B7-2E (hex) Xiaomi Communications Co Ltd
DCB72E (base 16) Xiaomi Communications Co Ltd
#019,
9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

F8-6D-73 (hex) Zengge Co., Limited
F86D73 (base 16) Zengge Co., Limited
3/F, B Building, Second Laowei Industrial Zone, Longhua District
Shenzhen Guangdong 518109
CN

E0-2B-E9 (hex) Intel Corporate
E02BE9 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

58-86-94 (hex) EFM Networks
588694 (base 16) EFM Networks
6F, Benposra II 1197-1 Bojeong Giheung Gu
Yong In Kyunggi do 446913
KR

AC-37-28 (hex) Taicang T&W Electronics
AC3728 (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

20-CD-6E (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
20CD6E (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

E8-68-E7 (hex) Espressif Inc.
E868E7
(base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

D0-BC-C1 (hex) WEIFANG GOERTEK ELECTRONICS CO.,LTD
D0BCC1 (base 16) WEIFANG GOERTEK ELECTRONICS CO.,LTD
Gaoxin 2 Road, Free Trade Zone,Weifang,Shandong,261205,P.R.China
Weifang Shandong 261205
CN

B4-0E-DE (hex) Intel Corporate
B40EDE (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

64-79-24 (hex) Huawei Device Co., Ltd.
647924 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

D8-CC-98 (hex) Huawei Device Co., Ltd.
D8CC98 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C8-B6-D3 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C8B6D3 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan
523808
CN

E0-4B-A6 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E04BA6 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

DC-4A-9E (hex) IEEE Registration Authority
DC4A9E (base 16) IEEE Registration Authority
445 Hoes Lane

Piscataway NJ 08554
US

C0-33-DA (hex) Shenzhen JRUN Technologies CO., LTD
C033DA (base 16) Shenzhen JRUN Technologies CO., LTD
A Zone,9F,Huilongda Industrial Park,Shuitian Private Industrial Park,Shiyan Street,Bao,an District.
Shenzhen Guangdong 518101
CN

A8-74-84 (hex) zte corporation
A87484 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

FC-8D-3D (hex) Leapfive Tech. Ltd.
FC8D3D (base 16) Leapfive Tech. Ltd.
huaruizhididasha 8ceng
shenzhen guangdong 518057
CN

BC-69-CB (hex) Panasonic Electric Works Networks Co., Ltd.
BC69CB
(base 16) Panasonic Electric Works Networks Co., Ltd.
2-12-7, Higashi-Shinbashi
Minato-Ku Tokyo 105-0021
JP

08-93-56 (hex) HUAWEI TECHNOLOGIES CO.,LTD
089356 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

6C-14-6E (hex) HUAWEI TECHNOLOGIES CO.,LTD
6C146E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

44-E9-68 (hex) HUAWEI TECHNOLOGIES CO.,LTD
44E968 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

DC-B7-FC (hex) Alps Electric (Ireland) Ltd
DCB7FC (base 16) Alps Electric (Ireland) Ltd

MOUNT LEADER INDUSTRIAL ESTATE
MILLSTREET CO. CORK P51 XC56
IE

AC-FA-A5 (hex) digitron
ACFAA5 (base 16) digitron
tehnopark A -701, 697 PanGyo-ro, Bundong
Seongnam GyeongGiDO
13511
KR

78-C9-5E (hex) Midmark RTLS
78C95E (base 16) Midmark RTLS
2600 Millercreek Rd
Traverse City MI 49684
US

40-14-AD (hex) Huawei Device Co., Ltd.
4014AD (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

44-CE-3A (hex) Jiangsu Huacun Electronic Technology Co., Ltd.
44CE3A (base 16) Jiangsu Huacun Electronic Technology Co., Ltd.
C4, 9th Floor, 266 New Century Avenue, Tongzhou District
Nantong City Jiangsu Province 226300
CN

9C-1E-A4 (hex) Renesas Electronics (Penang) Sdn. Bhd.
9C1EA4 (base 16) Renesas Electronics (Penang) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

4C-EF-56 (hex) Shenzhen Sundray Technologies Company Limited
4CEF56 (base 16) Shenzhen Sundray Technologies Company Limited
5th Floor, Block A4, Nanshan ipark,NO.1001 Xue Yuan Road, Nanshan District, Shenzhen 518055, P.R. China
Shenzhen
Guangdong 518057
CN

E8-4F-4B (hex) Shenzhen Delos Electronic Co., Ltd
E84F4B (base 16) Shenzhen Delos Electronic Co., Ltd
Rm 603, Tower B, Galaxy World Building, No.1 Yabao Road,Longgang District,Shenzhen,P.R.China.
shenzhen guangdong 518000
CN

B0-4A-39 (hex) Beijing Roborock Technology Co., Ltd.
B04A39 (base 16) Beijing Roborock Technology Co., Ltd.
Floor 6,Building C,Kangjian Baosheng Plaza,No. 8 Heiquan Road,Haidian District
Beijing Beijing 100085
CN

A4-F9-E4 (hex) AirVine Scientific, Inc.
A4F9E4 (base 16) AirVine Scientific, Inc.
1500 Wyatt Drive, Suite 9
Santa Clara CA 95054
US

F4-4F-D3 (hex) shenzhen hemuwei technology co.,ltd
F44FD3 (base 16) shenzhen hemuwei technology co.,ltd
220, Building C, IoT Industrial Park, Bantian Street, Longgang District
shenzhen guangdong 518000
CN

00-1F-B8 (hex) Universal Remote Control, Inc.
001FB8 (base 16) Universal Remote Control,
Inc.
500 Mamaroneck Avenue
Harrison NY 10528
US

80-03-84 (hex) Ruckus Wireless
800384 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

D8-37-3B (hex) Shenzhen Jingxun Software Telecommunication Technology Co.,Ltd
D8373B (base 16) Shenzhen Jingxun Software Telecommunication Technology Co.,Ltd
3/F,A5 Building Zhiyuan Community No.1001,Xueyuan Road Nanshan District
Shenzhen Guangdong 518055
CN

A8-30-1C (hex) Qingdao Intelligent&Precise Electronics Co.,Ltd.
A8301C (base 16) Qingdao Intelligent&Precise Electronics Co.,Ltd.
No.218 Qianwangang Road
Qingdao Shangdong 266510
CN

FC-45-C3 (hex) Texas Instruments
FC45C3 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

AC-6A-A3 (hex) Shenzhen Kertong Technology Co.,Ltd
AC6AA3 (base 16) Shenzhen Kertong Technology Co.,Ltd
405,Fuyuan Building ,District 45 Bao'an
Shenzhen Guangdong 518101
CN

3C-E0-38
(hex) Omnifi Inc.
3CE038 (base 16) Omnifi Inc.
6701 Koll Center Parkway, Suite 250
Pleasanton CA 94566
US

84-93-A0 (hex) Huawei Device Co., Ltd.
8493A0 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

9C-8E-9C (hex) Huawei Device Co., Ltd.
9C8E9C (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

FC-69-8C (hex) ANDREAS STIHL AG & Co. KG
FC698C (base 16) ANDREAS STIHL AG & Co. KG
Badstraße 115
Waiblingen 71336
DE

6C-2D-24 (hex) Zhen Shi Information Technology (Shanghai) Co., Ltd.
6C2D24 (base 16) Zhen Shi Information Technology (Shanghai) Co., Ltd.
5F, Building 3?No. 401 Caobao Road, Xuhui District, Shanghai, China
Shanghai Shanghai 200233
CN

7C-78-B2 (hex) Wyze Labs Inc
7C78B2 (base 16) Wyze Labs Inc
4030 Lake Washington Boulevard NE
Kirkland
WA 98033
US

00-60-E9 (hex) ATOP TECHNOLOGIES, INC.
0060E9 (base 16) ATOP TECHNOLOGIES, INC.
SUITE 305, NO. 47, PARK AVENUE II,

HSINCHU 30047
TW

E4-C3-2A (hex) TP-LINK TECHNOLOGIES CO.,LTD.
E4C32A (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

90-9A-4A (hex) TP-LINK TECHNOLOGIES CO.,LTD.
909A4A (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

BC-97-89 (hex) Huawei Device Co., Ltd.
BC9789 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

68-45-71 (hex) Huawei Device Co., Ltd.
684571 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong
523808
CN

AC-12-2F (hex) Fantasia Trading LLC
AC122F (base 16) Fantasia Trading LLC
5350 Ontario Mills Pkwy, Suite 100
Ontario CA 91764
US

60-70-72 (hex) SHENZHEN HONGDE SMART LINK TECHNOLOGY CO., LTD
607072 (base 16) SHENZHEN HONGDE SMART LINK TECHNOLOGY CO., LTD
Fu Qian Road, Longhua district
ShenZhen GuangDong province 518000
CN

B8-AE-1C (hex) Smart Cube., Ltd
B8AE1C (base 16) Smart Cube., Ltd
13F.-3, No. 78, Sec. 2, Anhe Rd., Da’an Dist., Taipei City 106, Taiwan (R.O.C.)
Taipei 106
TW

14-1B-30 (hex) Shenzhen Yipingfang Network Technology Co., Ltd.
141B30 (base 16) Shenzhen Yipingfang Network Technology Co., Ltd.

21 / F, Kangjia R & D building, No.28, Keji South 12th Road, Nanshan District, Shenzhen City, Guangdong Province, China
Shenzhen Nanshan District 518000
CN

B8-47-7A (hex) Dasan Electron Co., Ltd.
B8477A (base 16) Dasan Electron Co., Ltd.
705 HaeAn-Ro #307, SangRok-Gu
Ansan
KyungKi 15588
KR

B4-AD-A3 (hex) Guangzhou Shiyuan Electronic Technology Company Limited
B4ADA3 (base 16) Guangzhou Shiyuan Electronic Technology Company Limited
No.6, 4th Yunpu Road, Yunpu industry District
Guangzhou Guangdong 510530
CN

6C-AD-AD (hex) CHONGQING FUGUI ELECTRONICS CO.,LTD.
6CADAD (base 16) CHONGQING FUGUI ELECTRONICS CO.,LTD.
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

CC-E0-DA (hex) Baidu Online Network Technology (Beijing) Co., Ltd
CCE0DA (base 16) Baidu Online Network Technology (Beijing) Co., Ltd
Baidu Campus, No.10 Shangdi 10th Street, Haidian District
Beijing 100085
CN

40-8C-4C (hex) Shenzhen MiaoMing Intelligent Technology Co.,Ltd
408C4C (base 16) Shenzhen MiaoMing Intelligent Technology Co.,Ltd
Chudong science and technology park, 111 shaxin road, tangxia town,
dongguan city guangdong province
523710
CN

D4-48-2D (hex) Shenzhen Deejoy Lighting Technology Co.,Ltd.
D4482D (base 16) Shenzhen Deejoy Lighting Technology Co.,Ltd.
3rd Floor, Building B3, Xujingchang Industrial Park,Xinhe Community Fuyong Town,Baoan District
Shenzhen Guangdong 518103
CN

78-E3-DE (hex) Apple, Inc.
78E3DE (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D0-D2-3C (hex) Apple, Inc.
D0D23C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

64-D2-C4 (hex) Apple, Inc.
64D2C4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

DC-52-85 (hex) Apple, Inc.
DC5285 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E8-81-52 (hex) Apple, Inc.
E88152 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D8-F3-BC (hex) Liteon Technology Corporation
D8F3BC (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New
Taipei City Taiwan 23585
TW

F4-6F-ED (hex) Fiberhome Telecommunication Technologies Co.,LTD
F46FED (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

94-B9-7E (hex) Espressif Inc.
94B97E (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

64-23-15 (hex) Huawei Device Co., Ltd.
642315 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808

CN

A4-C7-4B (hex) Huawei Device Co., Ltd.
A4C74B (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

90-81-58 (hex) Apple, Inc.
908158 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D8-F8-AF (hex) DAONTEC
D8F8AF (base 16) DAONTEC
219, Gasan digital 1-ro
Seoul KS013
KR

E4-84-2B (hex) HANGZHOU SOFTEL
OPTIC CO., LTD
E4842B (base 16) HANGZHOU SOFTEL OPTIC CO., LTD
101 BINKANG ROAD, BINJIANG DISTRICT
HANGZHOU ZHEJIANG 310052
CN

94-02-6B (hex) Optictimes Co.,Ltd
94026B (base 16) Optictimes Co.,Ltd
Hangzhou City, Zhejiang Province
Hangzhou Zhejiang 310023
CN

08-42-96 (hex) Mobile Technology Solutions LLC
084296 (base 16) Mobile Technology Solutions LLC
20379 Bannister Dr.
Macomb MI 48044
US

34-EF-B6 (hex) Edgecore Networks Corporation
34EFB6 (base 16) Edgecore Networks Corporation
1 Creation RD 3.
Hsinchu 30077
TW

E8-74-C7 (hex) Sentinhealth
E874C7 (base 16) Sentinhealth
5, Avenude du Grand Sablon

LA TRONCHE 38700
FR

18-FD-CB (hex) IEEE Registration Authority
18FDCB (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

44-87-DB (hex) Tymphany Acoustic Technology (Huizhou) Co., Ltd.
4487DB (base 16) Tymphany Acoustic Technology
(Huizhou) Co., Ltd.
Tymphany Acoustic Technology (Huizhou) Co., Ltd.
Huizhou Guangdong 516223
CN

C8-17-39 (hex) ITEL MOBILE LIMITED
C81739 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

58-D0-61 (hex) HUAWEI TECHNOLOGIES CO.,LTD
58D061 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-90-23 (hex) ZILOG INC.
009023 (base 16) ZILOG INC.
910 East Hamilton Ave.
Campbell CA 95008
US

00-1C-7B (hex) Castlenet Technology Inc.
001C7B (base 16) Castlenet Technology Inc.
5F., No. 10, Daye Rd., Beitou Dist.
Taipei City 112030
TW

B0-FE-E5 (hex) Huawei Device Co., Ltd.
B0FEE5 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

04-C1-D8 (hex) Huawei

Device Co., Ltd.
04C1D8 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C8-BC-9C (hex) Huawei Device Co., Ltd.
C8BC9C (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

90-CC-DF (hex) Intel Corporate
90CCDF (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

B8-D3-09 (hex) Cox Communications, Inc
B8D309 (base 16) Cox Communications, Inc
6205 Peachtree Dunwoody Rd
Atlanta GA 30328
US

08-5B-D6 (hex) Intel Corporate
085BD6 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

6C-BA-B8 (hex) Sagemcom Broadband SAS
6CBAB8 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

E0-D4-64 (hex) Intel Corporate
E0D464 (base 16) Intel Corporate
Lot
8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C0-F6-C2 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C0F6C2 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

68-93-20 (hex) New H3C Technologies Co., Ltd
689320 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

94-54-CE (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
9454CE (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

38-8A-BE (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
388ABE (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

04-7E-23 (hex) China Mobile IOT Company Limited
047E23 (base 16) China Mobile IOT Company Limited
NO.8 Yu Ma Road, NanAn Area
Chongqing Chongqing
401336
CN

14-CC-B3 (hex) AO GK NATEKS
14CCB3 (base 16) AO GK NATEKS
Kamenshiki B. str., 4
Moscow 115172
RU

60-07-7C (hex) Jala Group
60077C (base 16) Jala Group
Melchor Pérez de Holguín N 2643
Cochabamba Cochabamba 0000
BO

8C-8D-28 (hex) Intel Corporate
8C8D28 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

34-3E-A4 (hex) Ring LLC
343EA4 (base 16) Ring LLC
1523 26th St
Santa Monica CA 90404

US

54-84-DC (hex) zte corporation
5484DC (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

38-54-9B (hex) zte corporation
38549B (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

DC-CD-2F (hex) Seiko Epson Corporation
DCCD2F (base 16) Seiko Epson Corporation
2070 Kotobuki Koaka
Matsumoto-shi Nagano-ken
399-8702
JP

60-98-66 (hex) Texas Instruments
609866 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

D8-77-8B (hex) Intelbras
D8778B (base 16) Intelbras
BR 101, KM 210
São Jose Santa Catarina 88104-800
BR

30-C9-AB (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
30C9AB (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

00-7E-56 (hex) China Dragon Technology Limited
007E56 (base 16) China Dragon Technology Limited
B4 Bldg.Haoshan 1st Industry Park,
Shenzhen Guangdong 518104
CN

3C-1A-9E (hex) VitalThings AS
3C1A9E (base 16) VitalThings AS
Jarlsoveien 48

Tonsberg 3124
NO

C8-84-A1 (hex) Cisco Systems, Inc
C884A1 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

08-3A-F2 (hex) Espressif
Inc.
083AF2 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

74-3A-20 (hex) New H3C Technologies Co., Ltd
743A20 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

C4-D7-38 (hex) Huawei Device Co., Ltd.
C4D738 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

00-08-F6 (hex) Sumitomo Electric Industries, Ltd
0008F6 (base 16) Sumitomo Electric Industries, Ltd
1-1-3, Shimaya, Konohana-ku
Osaka 554-0024
JP

00-0B-A2 (hex) Sumitomo Electric Industries, Ltd
000BA2 (base 16) Sumitomo Electric Industries, Ltd
1-1-3, Shimaya, Konohana-ku
Osaka 554-0024
JP

00-00-5F (hex) Sumitomo Electric Industries, Ltd
00005F (base 16) Sumitomo Electric Industries, Ltd
1-1-3, Shimaya, Konohana-ku
Osaka 554-0024
JP

00-1E-68

(hex) Quanta Computer Inc.
001E68 (base 16) Quanta Computer Inc.
NO. 211, WEN HWA 2RD., KUEI SHAN HSIANG
TAIPEI TAO YUAN SHIEN 333
TW

18-EC-E7 (hex) BUFFALO.INC
18ECE7 (base 16) BUFFALO.INC
AKAMONDORI Bld.,30-20,Ohsu 3-chome,Naka-ku
Nagoya Aichi Pref. 460-8315
JP

D4-AF-F7 (hex) Arista Networks
D4AFF7 (base 16) Arista Networks
5453 Great America Parkway
Santa Clara CA 95054
US

28-D1-27 (hex) Beijing Xiaomi Mobile Software Co., Ltd
28D127 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

30-A4-52 (hex) Arrival Elements BV
30A452 (base 16) Arrival Elements BV
M. Keynesplein 12-46
Amsterdam 1066 EP
NL

F4-69-D5 (hex) IEEE Registration Authority
F469D5 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

8C-C5-B4
(hex) Sagemcom Broadband SAS
8CC5B4 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

F8-1B-04 (hex) Zhong Shan City Richsound Electronic Industrial Ltd
F81B04 (base 16) Zhong Shan City Richsound Electronic Industrial Ltd
Qunle Industrial Area,East ShaGang Road,GangKou ZhongShan,GuangDong,China
ZhongShan GuangDong 528400
CN

18-D6-1C (hex) Shenzhen TINNO Mobile Technology Corp.
18D61C (base 16) Shenzhen TINNO Mobile Technology Corp.
Building, No.33, Xiandong Rd, Xili
Nanshan District, Shenzhen PRC 518053
CN

54-48-E6 (hex) Beijing Xiaomi Mobile Software Co., Ltd
5448E6 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
Xiaomi Campus, No. 33 Xi erqi Middle Road, Haidian District
Beijing Beijing 100085
CN

D8-8C-79 (hex) Google, Inc.
D88C79 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

10-34-1B (hex) Spacelink
10341B
(base 16) Spacelink
8830 Complex dr
San Diego CA 92123
US

1C-D6-BE (hex) Wistron Neweb Corporation
1CD6BE (base 16) Wistron Neweb Corporation
No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu R.O.C. 308
TW

F8-64-65 (hex) Anova Applied Electronics, Inc.
F86465 (base 16) Anova Applied Electronics, Inc.
580 Howard Street, #403
san francisco CA 94105
US

90-A9-35 (hex) JWEntertainment
90A935 (base 16) JWEntertainment
3f 10 Dwitgol-ro
Gwacheon-si Gyeonggi-do 13814
KR

60-D4-E9 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
60D4E9 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860

CN

C8-68-DE (hex) Huawei Device Co., Ltd.
C868DE (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

D0-0D-F7 (hex) Huawei Device Co., Ltd.
D00DF7
(base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

48-05-E2 (hex) Huawei Device Co., Ltd.
4805E2 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

28-68-D2 (hex) HUAWEI TECHNOLOGIES CO.,LTD
2868D2 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C8-E2-65 (hex) Intel Corporate
C8E265 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

2C-60-0C (hex) Quanta Computer Inc.
2C600C (base 16) Quanta Computer Inc.
No.211, Wen Hwa 2nd Rd
Taoyuan Taiwan 33377
TW

00-23-8B (hex) Quanta Computer Inc.
00238B (base 16) Quanta Computer Inc.
NO. 211, WEN HWA 2RD.,KUEI SHAN HSIANG, TAO YUAN SHIEN,
TAIPEI TAIWAN 333
TW

30-C5-0F (hex) HUAWEI TECHNOLOGIES CO.,LTD
30C50F

(base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

BC-03-A7 (hex) MFP MICHELIN
BC03A7 (base 16) MFP MICHELIN
23 place des Carmes Dechaux
Clermont-Ferrand 63000
FR

CC-DB-93 (hex) Cisco Systems, Inc
CCDB93 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

1C-E6-1D (hex) Samsung Electronics Co.,Ltd
1CE61D (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

44-1C-7F (hex) Motorola Mobility LLC, a Lenovo Company
441C7F (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

00-B8-B6 (hex) Motorola Mobility LLC, a Lenovo Company
00B8B6 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

80-EA-07 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
80EA07 (base
16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

04-A2-F3 (hex) Fiberhome Telecommunication Technologies Co.,LTD
04A2F3 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

80-12-DF (hex) Shenzhen SuperElectron Technology Co.,Ltd.
8012DF (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen Guangdong 518000
CN

2C-6F-51 (hex) Herospeed Digital Technology Limited
2C6F51 (base 16) Herospeed Digital Technology Limited
728 Kaichuang Avenue,Huangpu Distric
Guangzhou Guangdong 510530
CN

98-2F-F8 (hex) Huawei Device Co., Ltd.
982FF8 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong
523808
CN

40-DC-A5 (hex) Huawei Device Co., Ltd.
40DCA5 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

10-E7-7A (hex) STMicrolectronics International NV
10E77A (base 16) STMicrolectronics International NV
39, Chemin du Champ-des-Filles
Geneva, Plan-les-Quates 1228
CH

00-D0-B6 (hex) CRESCENT NETWORKS, INC.
00D0B6 (base 16) CRESCENT NETWORKS, INC.
201 RIVERNECK ROAD
CHELMSFORD MA 01842
US

2C-A0-42 (hex) Huawei Device Co., Ltd.
2CA042 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C0-83-C9 (hex) Huawei Device Co., Ltd.
C083C9 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

10-4F-58 (hex) Aruba, a Hewlett Packard Enterprise Company
104F58 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333
Scott Blvd
Santa Clara CA 95054
US

98-2C-BC (hex) Intel Corporate
982CBC (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

20-50-E7 (hex) AMPAK Technology,Inc.
2050E7 (base 16) AMPAK Technology,Inc.
3F, No.15-1 Zhonghua Road, Hsinchu Industrail Park, Hukou,
Hsinchu Hsinchu,Taiwan R.O.C. 30352
TW

BC-17-B8 (hex) Intel Corporate
BC17B8 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

CC-D0-83 (hex) Aruba, a Hewlett Packard Enterprise Company
CCD083 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

E4-3D-1A (hex) Broadcom Limited
E43D1A (base 16) Broadcom Limited
15191 Alton Parkway
Irvine CA 92618
US

70-18-A7 (hex) Cisco Systems, Inc
7018A7 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

24-F1-50 (hex) Guangzhou Qi'an
Technology Co., Ltd.
24F150 (base 16) Guangzhou Qi'an Technology Co., Ltd.
No. 3, Dasonggang, Jiangnan Avenue Middle Road, Haizhu District, Guangzhou (office only)

Guangzhou Guangdong 510220
CN

08-FA-79 (hex) vivo Mobile Communication Co., Ltd.
08FA79 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

8C-5E-BD (hex) Huawei Device Co., Ltd.
8C5EBD (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C0-1C-30 (hex) Shenzhen WIFI-3L Technology Co.,Ltd
C01C30 (base 16) Shenzhen WIFI-3L Technology Co.,Ltd
East 5 Floor,B Building, WeiHao Technology Park,Sunny Indusrtrial zone, Xili Town, Nanshan District
Shenzhen Guangdong 518055
CN

D8-C6-78 (hex) MitraStar Technology Corp.
D8C678 (base 16) MitraStar Technology Corp.
No. 6, Innovation Road II,
Hsinchu 300
TW

4C-C5-3E (hex) Zyxel
Communications Corporation
4CC53E (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

EC-C0-1B (hex) HUAWEI TECHNOLOGIES CO.,LTD
ECC01B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

98-44-CE (hex) HUAWEI TECHNOLOGIES CO.,LTD
9844CE (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F0-9B-B8 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F09BB8 (base 16) HUAWEI TECHNOLOGIES CO.,LTD

No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

44-BB-3B (hex) Google, Inc.
44BB3B (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

14-C1-4E (hex) Google, Inc.
14C14E (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

D8-C0-A6
(hex) AzureWave Technology Inc.
D8C0A6 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

60-7E-C9 (hex) Apple, Inc.
607EC9 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

10-8B-6A (hex) Antailiye Technology Co.,Ltd
108B6A (base 16) Antailiye Technology Co.,Ltd
7/F,Zhengjiyuan Buiding,2 Road,Qianjing, Xixiang, Baoan District,Shenzhen
SHEN ZHEN GUANGDONG 518000
CN

98-A9-42 (hex) Guangzhou Tozed Kangwei Intelligent Technology Co., LTD
98A942 (base 16) Guangzhou Tozed Kangwei Intelligent Technology Co., LTD
Room 1301, NO. 37 Jinlong , Nansha Street, Xiangjiang Financial Business Center, Nansha District
Guangzhou Guangdong 511458
CN

4C-21-13 (hex) Nokia Shanghai Bell Co., Ltd.
4C2113 (base 16) Nokia Shanghai Bell Co., Ltd.
No.388 Ning Qiao Road,Jin Qiao Pudong Shanghai
Shanghai 201206
CN

DC-50-3A (hex) Nanjing Ticom

Tech Co., Ltd.
DC503A (base 16) Nanjing Ticom Tech Co., Ltd.
No.35 Fenghui Road, Yuhuatai District
Nanjing Jiangsu 210039
CN

18-47-3D (hex) CHONGQING FUGUI ELECTRONICS CO.,LTD.
18473D (base 16) CHONGQING FUGUI ELECTRONICS CO.,LTD.
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

94-25-33 (hex) HUAWEI TECHNOLOGIES CO.,LTD
942533 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

60-56-61 (hex) IXECLOUD Tech
605661 (base 16) IXECLOUD Tech
118, 3rd Floor, Building 195, Area 1 Beiwa Road,Haidian District, Beijing
Beijing 100000
CN

70-69-79 (hex) IEEE Registration Authority
706979 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

D4-77-B2 (hex) Netix Global B.V.
D477B2 (base 16) Netix Global B.V.
1119RB Schipol - Rijk, Beechavenue,
113, Schipol,
Amsterdam NL 1119
NL

FC-60-9B (hex) New H3C Technologies Co., Ltd
FC609B (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

E8-A1-F8 (hex) zte corporation
E8A1F8 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

30-42-40 (hex) zte corporation
304240 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

14-C8-8B (hex) Apple, Inc.
14C88B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

EC-26-51 (hex) Apple, Inc.
EC2651 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

18-3E-EF (hex) Apple, Inc.
183EEF (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

80-2D-BF (hex) Cisco Systems, Inc
802DBF (base 16) Cisco Systems,
Inc
80 West Tasman Drive
San Jose CA 94568
US

70-8C-BB (hex) MIMODISPLAYKOREA
708CBB (base 16) MIMODISPLAYKOREA
#812, 19, Ojeongongeop-gil
Uiwang-si Gyeonggi-do 16072
KR

B8-48-AA (hex) EM Microelectronic
B848AA (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

98-7E-CA (hex) Inventus Power Eletronica do Brasil LTDA
987ECA (base 16) Inventus Power Eletronica do Brasil LTDA
Av Buriti, 4285 Distrito Industrial
Manaus Amazonas 69075000

BR

28-B3-71 (hex) Ruckus Wireless
28B371 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

D4-F8-29 (hex) Sagemcom Broadband SAS
D4F829 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

E0-62-34 (hex) Texas Instruments
E06234 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

F8-6B-D9 (hex) Cisco
Systems, Inc
F86BD9 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

C0-14-FE (hex) Cisco Systems, Inc
C014FE (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

7C-AD-4F (hex) Cisco Systems, Inc
7CAD4F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

0C-14-D2 (hex) China Mobile Group Device Co.,Ltd.
0C14D2 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

50-38-2F (hex) ASE Group Chung-Li
50382F (base 16) ASE Group Chung-Li
No 550,Chung-Hwa Road Section1

Chung-Li , Taoyuan Taoyuan 32016
TW

F8-AC-65 (hex) Intel Corporate
F8AC65 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-19-F4 (hex) Convergens Oy Ltd
0019F4 (base 16) Convergens Oy Ltd
Westendintie 99 B
Espoo Uusimaa FIN-02160
FI

24-4B-FE
(hex) ASUSTek COMPUTER INC.
244BFE (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

7C-DD-E9 (hex) ATOM tech Inc.
7CDDE9 (base 16) ATOM tech Inc.
Sky Menor Yokohama 422, 2-11-2 Takashima, Nishi-ku
Yokohama-shi Kanagawa 220-0011
JP

08-AC-C4 (hex) FMTech
08ACC4 (base 16) FMTech
yuehai
ShenZhen 518000
CN

6C-2F-8A (hex) Samsung Electronics Co.,Ltd
6C2F8A (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F0-B0-22 (hex) TOHO Electronics INC.
F0B022 (base 16) TOHO Electronics INC.
1-13-21 Tanashioda, Chuo-Ku
Sagamihara-City Kanagawa 252-0245
JP

F8-2F-65 (hex) Huawei Device Co., Ltd.
F82F65 (base 16) Huawei Device Co., Ltd.

No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

08-31-A4 (hex) Huawei Device Co., Ltd.
0831A4 (base 16) Huawei Device Co.,
Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

A8-E9-78 (hex) Huawei Device Co., Ltd.
A8E978 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

44-F4-E7 (hex) Cohesity Inc
44F4E7 (base 16) Cohesity Inc
300 park ave
san jose CA 95110
US

E0-F6-B5 (hex) Nintendo Co.,Ltd
E0F6B5 (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

40-B3-1E (hex) Universal Electronics, Inc.
40B31E (base 16) Universal Electronics, Inc.
201 E. Sandpointe Ave
Santa Ana CA 92707
US

88-40-33 (hex) HUAWEI TECHNOLOGIES CO.,LTD
884033 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

94-8A-C6 (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
948AC6 (base 16) Realme Chongqing Mobile Telecommunications
Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

2C-9F-FB (hex) Wistron Neweb Corporation
2C9FFB (base 16) Wistron Neweb Corporation
No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu R.O.C. 308
TW

84-CC-A8 (hex) Espressif Inc.
84CCA8 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

E0-D4-62 (hex) Huawei Device Co., Ltd.
E0D462 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

90-98-38 (hex) Huawei Device Co., Ltd.
909838 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

44-8D-BF (hex) Rhino Mobility LLC
448DBF (base 16) Rhino Mobility LLC
8 The Green, Suite A
Dover DE 19901
US

C0-A6-6D (hex) Inspur Group Co., Ltd.
C0A66D (base
16) Inspur Group Co., Ltd.
No.1036 Langchao Rd.
Jinan Shandong 250101
CN

00-20-60 (hex) ALCATEL ITALIA S.p.A.
002060 (base 16) ALCATEL ITALIA S.p.A.
VIA TRENTO, 30
20059 VIMERCATE (MI)
IT

C8-83-14 (hex) Tempo Communications
C88314 (base 16) Tempo Communications
1390 Aspen Way
Vista CA 92081
US

24-C8-D3 (hex) McWane India Pvt Ltd
24C8D3 (base 16) McWane India Pvt Ltd
483, Kamaraj Road, Upplipalayam
Coimbatore Tamil Nadu 641015
IN

AC-7A-56 (hex) Cisco Systems, Inc
AC7A56 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

D8-91-36 (hex) Dover Fueling Solutions
D89136 (base 16) Dover Fueling Solutions
Industrieweg 5
Bladel NBR 5531AD
NL

FC-95-6A (hex) OCTAGON SYSTEMS CORP.
FC956A (base 16) OCTAGON SYSTEMS CORP.
7403 Church Ranch Blvd
Westminster CO 80021
US

00-06-2A (hex) Cisco Systems, Inc
00062A (base 16) Cisco
Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

98-ED-5C (hex) Tesla,Inc.
98ED5C (base 16) Tesla,Inc.
3500 Deer Creek Road
Palo Alto CA 94304
US

C4-42-68 (hex) CRESTRON ELECTRONICS, INC.
C44268 (base 16) CRESTRON ELECTRONICS, INC.
15 Volvo Drive
Rockleigh NJ 07647
US

40-F5-20 (hex) Espressif Inc.
40F520 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203

CN

78-AA-82 (hex) New H3C Technologies Co., Ltd
78AA82 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

38-F6-01 (hex) Solid State Storage Technology Corporation
38F601 (base 16) Solid State Storage Technology Corporation
21F, 392, Ruey Kuang Road, Neihu
Taipei 11492
TW

10-70-FD (hex) Mellanox Technologies, Inc.
1070FD (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway, Suite
100
Sunnyvale CA 94085
US

E8-98-6D (hex) Palo Alto Networks
E8986D (base 16) Palo Alto Networks
3000 Tannery Way
Santa Clara CA 95054
US

7C-89-C1 (hex) Palo Alto Networks
7C89C1 (base 16) Palo Alto Networks
3000 Tannery Way
Santa Clara CA 95054
US

B8-E3-EE (hex) Universal Electronics, Inc.
B8E3EE (base 16) Universal Electronics, Inc.
201 E. Sandpointe Ave
Santa Ana CA 92707
US

84-D6-C5 (hex) SolarEdge Technologies
84D6C5 (base 16) SolarEdge Technologies
1 Abba Eban St.
Herzelia 46725
IL

54-71-DD (hex) Huawei Device Co., Ltd.
5471DD (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone

Dongguan Guangdong 523808
CN

08-C0-EB (hex) Mellanox Technologies, Inc.
08C0EB (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway, Suite 100
Sunnyvale CA 94085
US

E4-E1-12 (hex) Texas Instruments
E4E112 (base 16) Texas
Instruments
12500 TI Blvd
Dallas TX 75243
US

34-14-B5 (hex) Texas Instruments
3414B5 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

D0-03-EB (hex) Texas Instruments
D003EB (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

90-56-FC (hex) TECNO MOBILE LIMITED
9056FC (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

B8-63-92 (hex) GUANGDONG GENIUS TECHNOLOGY CO., LTD.
B86392 (base 16) GUANGDONG GENIUS TECHNOLOGY CO., LTD.
No.168, Middle Road Of East Gate
Xiaobian Community Chang'an Town 523851
CN

68-B9-D3 (hex) Shenzhen Trolink Technology CO, LTD
68B9D3 (base 16) Shenzhen Trolink Technology CO, LTD
201 B building 4 shijie, Chashu industry 505 block, Baoan airport Sanwei community, Hangcheng street Baoan area.
Shenzhen
GuangDong 518000
CN

B8-C6-AA (hex) Earda Technologies co Ltd
B8C6AA (base 16) Earda Technologies co Ltd
Block A,Lianfeng Creative Park, #2 Jisheng Rd., Nansha District
Guangzhou Guangdong 511455
CN

54-AE-D0 (hex) DASAN Networks, Inc.
54AED0 (base 16) DASAN Networks, Inc.
DASAN Tower, 49, Daewangpangyo-ro, 644 Beon-gil, Bundang-gu
Seongnam-si Gyeonggi-do 13493
KR

6C-F7-12 (hex) Nokia Solutions and Networks GmbH & Co. KG
6CF712 (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541
DE

64-09-AC (hex) TCT mobile ltd
6409AC (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

24-B6-57 (hex) Cisco Systems, Inc
24B657 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

5C-55-78 (hex) iryx corp
5C5578 (base 16) iryx corp
14 Hughes
Irvine
CA 92618
US

18-9E-2C (hex) Huawei Device Co., Ltd.
189E2C (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

94-DB-56 (hex) Sony Home Entertainment&Sound Products Inc
94DB56 (base 16) Sony Home Entertainment&Sound Products Inc
Sony City Osaki 2-10-1 Osaki Shinagawa-ku
Tokyo Japan 141-8610

JP

38-22-E2 (hex) HP Inc.
3822E2 (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

08-BF-A0 (hex) Samsung Electronics Co.,Ltd
08BFA0 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

70-1F-3C (hex) Samsung Electronics Co.,Ltd
701F3C (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

48-7A-F6 (hex) NCS ELECTRICAL SDN BHD
487AF6 (base 16) NCS ELECTRICAL SDN BHD
NO. 20, 22, 24, 26, JALAN 1/3, RAWANG INTEGRATED INDUSTRIAL PARK, 48000 Rawang Selangor, MALAYSIA
RAWANG
SELANGOR 48000
MY

48-6E-70 (hex) Zhejiang Tmall Technology Co., Ltd.
486E70 (base 16) Zhejiang Tmall Technology Co., Ltd.
Ali Center,No.3331 Keyuan South RD (Shenzhen bay), Nanshan District, Shenzhen Guangdong province
Shenzhen GuangDong 518000
CN

60-1D-9D (hex) Sichuan AI-Link Technology Co., Ltd.
601D9D (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou, Industrial Park
Mianyang Sichuan 622650
CN

3C-7D-0A (hex) Apple, Inc.
3C7D0A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D8-5F-77 (hex) Telink Semiconductor (Shanghai) Co., Ltd.
D85F77 (base 16) Telink Semiconductor (Shanghai) Co., Ltd.

No. 1500 Zuchongzhi Rd, Building #3
Shanghai 201203
CN

2C-97-ED (hex) Sony Imaging Products & Solutions Inc.
2C97ED (base 16) Sony Imaging Products & Solutions Inc.
konan 1-7-1
minato-ku Tokyo 108-0075
JP

18-8A-6A (hex) AVPro Global Hldgs
188A6A
(base 16) AVPro Global Hldgs
2222 E 52nd Steeet N
Sioux Falls SD 57104
US

D4-8A-39 (hex) Samsung Electronics Co.,Ltd
D48A39 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

E4-F3-C4 (hex) Samsung Electronics Co.,Ltd
E4F3C4 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

9C-2F-4E (hex) zte corporation
9C2F4E (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

D8-A8-C8 (hex) zte corporation
D8A8C8 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

20-82-6A (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
20826A (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

B8-90-47 (hex) Apple, Inc.

B89047 (base
16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

90-9C-4A (hex) Apple, Inc.
909C4A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

90-8C-43 (hex) Apple, Inc.
908C43 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-10-90 (hex) New H3C Technologies Co., Ltd
F01090 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

E4-26-86 (hex) DWnet Technologies(Suzhou) Corporation
E42686 (base 16) DWnet Technologies(Suzhou) Corporation
No.8,Tangzhuang Road, Suzhou Industrial Park, Jiangsu, China
Suzhou 21500
CN

0C-37-96 (hex) BIZLINK TECHNOLOGY, INC.
0C3796 (base 16) BIZLINK TECHNOLOGY, INC.
47211 BAYSIDE PARKWAY
Fremont CA 94538
US

38-EB-47 (hex) HUAWEI TECHNOLOGIES CO.,LTD
38EB47 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology
Park
Dongguan 523808
CN

10-C3-AB (hex) HUAWEI TECHNOLOGIES CO.,LTD
10C3AB (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

28-11-EC (hex) HUAWEI TECHNOLOGIES CO.,LTD
2811EC (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-69-2D (hex) Sunnovo International Limited
00692D (base 16) Sunnovo International Limited
1717 Haitai Building
Beijing Beijing 100083
CN

F4-03-2A (hex) Amazon Technologies Inc.
F4032A (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

64-62-66 (hex) IEEE Registration Authority
646266 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

B4-15-7E (hex) Celona Inc.
B4157E (base 16) Celona Inc.
10061, Bubb Road Suite 300
Cupertino CA 95014
US

64-5E-2C
(hex) IRay Technology Co., Ltd.
645E2C (base 16) IRay Technology Co., Ltd.
11th Guiyang St.,
Yantai Shandong 264000
CN

B0-B1-94 (hex) zte corporation
B0B194 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

18-D9-8F (hex) Huawei Device Co., Ltd.
18D98F (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808

CN

14-77-40 (hex) Huawei Device Co., Ltd.
147740 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

90-43-E2 (hex) Cornami, Inc
9043E2 (base 16) Cornami, Inc
300 Orchard City Dr, Suite 131
Campbell CA 95008
US

9C-28-F7 (hex) Xiaomi Communications Co Ltd
9C28F7 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

10-52-1C
(hex) Espressif Inc.
10521C (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

84-68-C8 (hex) TOTOLINK TECHNOLOGY INT‘L LIMITED
8468C8 (base 16) TOTOLINK TECHNOLOGY INT‘L LIMITED
ROOM 702,7/F SPA CENTER NO 53055 LOCKHART ROAD
WAN CHAI 999077
HK

3C-57-31 (hex) Cisco Systems, Inc
3C5731 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

9C-FC-E8 (hex) Intel Corporate
9CFCE8 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

D8-0B-CB (hex) Telink Semiconductor (Shanghai) Co., Ltd.
D80BCB (base 16) Telink Semiconductor (Shanghai) Co., Ltd.
No. 1500 Zuchongzhi Rd, Building #3

Shanghai 201203
CN

6C-42-AB (hex) Subscriber Networks, Inc.
6C42AB (base 16) Subscriber Networks, Inc.
148 W. State Street
Kennett Square PA 19348
US

64-F6-F7 (hex) Anhui
Dynamic Power Co., Ltd.
64F6F7 (base 16) Anhui Dynamic Power Co., Ltd.
NO.20 Jinniu Mid Road,
Xuancheng Anhui 242100
CN

94-1C-56 (hex) Actiontec Electronics, Inc
941C56 (base 16) Actiontec Electronics, Inc
3301 Olcott St.
Santa Clara CA 95054
US

A0-2D-13 (hex) AirTies Wireless Networks
A02D13 (base 16) AirTies Wireless Networks
Esentepe Mah., Kore ?ehitleri Cad.
Istanbul ?i?li 34360
TR

CC-2D-1B (hex) SFR
CC2D1B (base 16) SFR
12 rue jean-philippe Rameau CS 80001
La plaine saint denis FRANCE 93634
FR

80-E5-40 (hex) ARRIS Group, Inc.
80E540 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

C0-D6-82 (hex) Arista Networks
C0D682 (base 16) Arista Networks
5453 Great America Parkway
Santa Clara CA 95054
US

50-14-08 (hex) AiNET
501408 (base 16) AiNET

11700 MONTGOMERY RD
BELTSVILLE MD 20705-1159
US

94-3B-B0 (hex) New
H3C Technologies Co., Ltd
943BB0 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

28-9A-F7 (hex) ADVA Optical Networking Ltd.
289AF7 (base 16) ADVA Optical Networking Ltd.
ADVAntage House
York YO30 4RY
GB

80-30-49 (hex) Liteon Technology Corporation
803049 (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

F0-F0-A4 (hex) Amazon Technologies Inc.
F0F0A4 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

E8-49-43 (hex) YUGE Information technology Co. Ltd
E84943 (base 16) YUGE Information technology Co. Ltd
Room 303, Building No. 6, ShengRong Rd. 88, Pudong, Shanghai
Shanghai 201203
CN

50-DE-19 (hex) IEEE Registration Authority
50DE19 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

D0-05-E4 (hex) Huawei Device
Co., Ltd.
D005E4 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

30-AA-E4 (hex) Huawei Device Co., Ltd.
30AAE4 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

90-55-DE (hex) Fiberhome Telecommunication Technologies Co.,LTD
9055DE (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

E8-91-0F (hex) Fiberhome Telecommunication Technologies Co.,LTD
E8910F (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

14-AB-56 (hex) WUXI FUNIDE DIGITAL CO.,LTD
14AB56 (base 16) WUXI FUNIDE DIGITAL CO.,LTD
No. 38 East Chunhui Road, Xishan Economic & Technology Development Zone
WUXI JIANGSU 214101
CN

80-7B-3E (hex) Samsung Electronics Co.,Ltd
807B3E (base 16) Samsung Electronics Co.,Ltd
#94-1,
Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F8-F1-E6 (hex) Samsung Electronics Co.,Ltd
F8F1E6 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

5C-E1-76 (hex) Cisco Systems, Inc
5CE176 (base 16) Cisco Systems, Inc
80 West Tasman Dr.
San Jose CA 94568
US

28-CD-C4 (hex) CHONGQING FUGUI ELECTRONICS CO.,LTD.
28CDC4 (base 16) CHONGQING FUGUI ELECTRONICS CO.,LTD.
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

E8-D8-D1 (hex) HP Inc.
E8D8D1 (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

48-EB-62 (hex) Murata Manufacturing Co., Ltd.
48EB62 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

34-2F-BD (hex) Nintendo Co.,Ltd
342FBD (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

2C-91-AB
(hex) AVM Audiovisuelles Marketing und Computersysteme GmbH
2C91AB (base 16) AVM Audiovisuelles Marketing und Computersysteme GmbH
Alt-Moabit 95
Berlin Berlin 10559
DE

EC-CE-D7 (hex) Apple, Inc.
ECCED7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

AC-90-85 (hex) Apple, Inc.
AC9085 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

88-A9-B7 (hex) Apple, Inc.
88A9B7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

CC-5C-DE (hex) China Mobile Group Device Co.,Ltd.
CC5CDE (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053

CN

4C-4F-EE (hex) OnePlus Technology (Shenzhen) Co., Ltd
4C4FEE (base 16) OnePlus Technology (Shenzhen) Co., Ltd
18C02, 18C03, 18C04 ,18C05,TAIRAN BUILDING,
Shenzhen Guangdong 518000
CN

A8-2B-CD (hex) HUAWEI TECHNOLOGIES CO.,LTD
A82BCD
(base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

48-DC-2D (hex) HUAWEI TECHNOLOGIES CO.,LTD
48DC2D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

34-F1-50 (hex) Hui Zhou Gaoshengda Technology Co.,LTD
34F150 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.75,Zhongkai High-Tech Development District,Huizhou
Hui Zhou Guangdong 516006
CN

BC-F9-F2 (hex) TEKO
BCF9F2 (base 16) TEKO
Prospect Pobedy, 19
Kazan Republic of Tatarstan 420138
RU

60-CE-86 (hex) Sercomm Corporation.
60CE86 (base 16) Sercomm Corporation.
3F,No.81,Yu-Yih Rd.,Chu-Nan Chen
Miao-Lih Hsuan 115
TW

60-10-A2 (hex) Crompton Instruments
6010A2 (base 16) Crompton Instruments
12 Freebournes Road
Witham Essex CM8 3AH
GB

B0-A4-54 (hex) Tripwire Inc.
B0A454

(base 16) Tripwire Inc.
308 SW 2nd Avenue Suite 400
Portland OR 97204
US

AC-EB-51 (hex) Universal Electronics, Inc.
ACEB51 (base 16) Universal Electronics, Inc.
201 E. Sandpointe Ave
Santa Ana CA 92707
US

C4-B2-39 (hex) Cisco Systems, Inc
C4B239 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-09-FC (hex) IPFLEX Inc.
0009FC (base 16) IPFLEX Inc.
Mowa-Bldg 3F, 1-16-6
Shibuya-ku Tokyo 150-0021
JP

A8-24-B8 (hex) Nokia
A824B8 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

64-90-C1 (hex) Beijing Xiaomi Mobile Software Co., Ltd
6490C1 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

80-9F-9B (hex) Sichuan AI-Link Technology Co., Ltd.
809F9B (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou,Industrial Park
Anzhou,Industrial
Park Sichuan 621000
CN

4C-E1-75 (hex) Cisco Systems, Inc
4CE175 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

50-E5-49 (hex) GIGA-BYTE TECHNOLOGY CO.,LTD.
50E549 (base 16) GIGA-BYTE TECHNOLOGY CO.,LTD.
Pin-Jen City, Taoyuan, Taiwan, R.O.C.
Pin-Jen Taoyuan 324
TW

D4-24-93 (hex) GW Technologies Co.,Ltd
D42493 (base 16) GW Technologies Co.,Ltd
Building 16,No.8,Heying Road,Changping District
Beijing Beijing 102200
CN

3C-51-0E (hex) Cisco Systems, Inc
3C510E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

CC-52-89 (hex) SHENZHEN OPTFOCUS TECHNOLOGY.,LTD
CC5289 (base 16) SHENZHEN OPTFOCUS TECHNOLOGY.,LTD
Floor 3, Building No.7,Tangtou 3rd Industrial Park,Shiyan Street of BaoAn District
ShenZhen 518000
CN

CC-5D-78 (hex) JTD Consulting
CC5D78 (base 16) JTD Consulting
92 King Street South, Suite
200
Waterloo Ontario N2J 1P5
CA

D8-AE-D0 (hex) Shanghai Engineering Science & Technology Co.,LTD CGNPC
D8AED0 (base 16) Shanghai Engineering Science & Technology Co.,LTD CGNPC
No.1588, Rd Zixing
Shanghai Shanghai 200241
CN

0C-42-A1 (hex) Mellanox Technologies, Inc.
0C42A1 (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway, Suite 100
Sunnyvale CA 94085
US

D0-31-10 (hex) Ingenic Semiconductor Co.,Ltd
D03110 (base 16) Ingenic Semiconductor Co.,Ltd
Room 108,Building A,Information Center Zhongguancun Software Park 8 Dongbeiwang West Road,Haidain District
Beijing 100193

CN

A8-E7-7D (hex) Texas Instruments
A8E77D (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

E0-85-9A (hex) SHENZHEN RF-LINK TECHNOLOGY CO.,LTD.
E0859A (base 16) SHENZHEN RF-LINK TECHNOLOGY CO.,LTD.
Bldg56A,6/F,Baotian Rd3,Xixiang Town,Baoan District,
Shenzhen Guangdong 518000
CN

EC-A9-40
(hex) ARRIS Group, Inc.
ECA940 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

FC-85-96 (hex) Axonne Inc.
FC8596 (base 16) Axonne Inc.
1290 Kifer Rd. #301
Sunnyvale CA 94086
US

5C-B4-E2 (hex) Inspur Software Group Ltd.
5CB4E2 (base 16) Inspur Software Group Ltd.
No. 1036, Langchao Road
Jinan Shandong 250101
CN

34-9F-7B (hex) CANON INC.
349F7B (base 16) CANON INC.
30-2 Shimomaruko 3-chome,
Ohta-ku Tokyo 146-8501
JP

B4-7A-F1 (hex) Hewlett Packard Enterprise
B47AF1 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

6C-41-0E (hex) Cisco Systems, Inc
6C410E (base 16) Cisco Systems, Inc
80 West Tasman Drive

San Jose CA 94568
US

14-91-38 (hex) Amazon Technologies Inc.
149138 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

08-CC-27 (hex) Motorola Mobility LLC,
a Lenovo Company
08CC27 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

04-D3-95 (hex) Motorola Mobility LLC, a Lenovo Company
04D395 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

E0-98-06 (hex) Espressif Inc.
E09806 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

F4-CF-A2 (hex) Espressif Inc.
F4CFA2 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

58-D5-0A (hex) Murata Manufacturing Co., Ltd.
58D50A (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

50-C6-AD (hex) Fiberhome Telecommunication Technologies Co.,LTD
50C6AD (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan
Hubei 430074
CN

0C-84-47 (hex) Fiberhome Telecommunication Technologies Co.,LTD

0C8447 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

9C-6B-72 (hex) Realme Chongqing MobileTelecommunications Corp Ltd
9C6B72 (base 16) Realme Chongqing MobileTelecommunications Corp Ltd
No.24 Nichang Boulevard, Huixing Block, Yubei District, Chongqing.
Chongqing China 401120
CN

F8-1E-6F (hex) EBG compleo GmbH
F81E6F (base 16) EBG compleo GmbH
Oberste-Wilms-Straße 15a
Dortmund Nordrhein-Westfalen 44309
DE

6C-31-0E (hex) Cisco Systems, Inc
6C310E (base 16) Cisco Systems, Inc
80 West Tasman Dr.
San Jose CA 94568
US

DC-54-3D (hex) ITEL MOBILE LIMITED
DC543D (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

74-8A-28 (hex) HMD Global Oy
748A28
(base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo 02600
FI

14-A3-2F (hex) Huawei Device Co., Ltd.
14A32F (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

04-D3-B5 (hex) Huawei Device Co., Ltd.
04D3B5 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

64-2C-AC (hex) HUAWEI TECHNOLOGIES CO.,LTD
642CAC (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E8-84-C6 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E884C6 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

28-77-F1 (hex) Apple, Inc.
2877F1 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-A3-5A (hex) Apple, Inc.
F0A35A (base 16) Apple, Inc.
1
Infinite Loop
Cupertino CA 95014
US

60-83-73 (hex) Apple, Inc.
608373 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

84-AD-8D (hex) Apple, Inc.
84AD8D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

74-42-8B (hex) Apple, Inc.
74428B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

DC-4B-FE (hex) Shenzhen Belon Technology CO.,LTD
DC4BFE (base 16) Shenzhen Belon Technology CO.,LTD
Tsinghua Information
Shenzhen Guangdong 518052
CN

50-62-55 (hex) IEEE Registration Authority
506255 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

F0-A7-B2 (hex) FUTABA CORPORATION
F0A7B2 (base 16) FUTABA CORPORATION
629 Oshiba
Mobara Chiba Prefecture 297-8588
JP

60-9B-2D (hex) JMACS Japan Co., Ltd.
609B2D (base 16) JMACS Japan Co., Ltd.
11F, KM Nishi-Umeda bldg., 7-20-1 Fukushima, Fukushima-ku
Osaka-city
Osaka 553-0003
JP

00-BB-1C (hex) Huawei Device Co., Ltd.
00BB1C (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

88-A3-03 (hex) Samsung Electronics Co.,Ltd
88A303 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

FC-DE-90 (hex) Samsung Electronics Co.,Ltd
FCDE90 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

18-54-CF (hex) Samsung Electronics Co.,Ltd
1854CF (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

80-79-5D (hex) Infinix mobility limited
80795D (base 16) Infinix mobility limited
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN
HONG KONG

HongKong HongKong 999077
HK

5C-E7-A0 (hex) Nokia
5CE7A0 (base 16) Nokia
600 March Road
Kanata Ontario
K2K 2E6
CA

8C-DC-02 (hex) zte corporation
8CDC02 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

80-AC-7C (hex) Sichuan AI-Link Technology Co., Ltd.
80AC7C (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou,Industrial Park
Anzhou,Industrial Park Sichuan 621000
CN

10-C6-5E (hex) Adapt-IP
10C65E (base 16) Adapt-IP
1671 Dell Avenue, Suite 130
Campbell CA 95008-6900
US

20-31-1C (hex) vivo Mobile Communication Co., Ltd.
20311C (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

7C-A7-B0 (hex) SHENZHEN BILIAN ELECTRONIC CO.LTD
7CA7B0 (base 16) SHENZHEN BILIAN ELECTRONIC CO.LTD
NO.268? Fuqian Rd, Jutang community, Guanlan Town, Longhua New district
shenzhen guangdong 518000
CN

68-39-43 (hex) ittim
683943 (base 16) ittim
1202, No.6, Zhongguancun
South Street, Haidian District,
beijing 100080
CN

B4-E8-42 (hex) Hong Kong Bouffalo Lab Limited

B4E842 (base 16) Hong Kong Bouffalo Lab Limited
RM 1903, 19/F Lee Garden One 33 Hysan Avenue, Causeway Bay
HongKong 999077
HK

28-52-F9 (hex) Zhongxin Intelligent Times (Shenzhen) Co., Ltd.
2852F9 (base 16) Zhongxin Intelligent Times (Shenzhen) Co., Ltd.
3rd Floor,Building 46,Cuigang Industrial Zone 5,Fuyong Street,Baoan District
Shenzhen Guangdong 518103
CN

B8-F8-53 (hex) Arcadyan Corporation
B8F853 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

E0-D0-83 (hex) Samsung Electronics Co.,Ltd
E0D083 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D8-0B-9A (hex) Samsung Electronics Co.,Ltd
D80B9A (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

6C-71-0D (hex) Cisco
Systems, Inc
6C710D (base 16) Cisco Systems, Inc
80 West Tasman Dr.
San Jose CA 94568
US

F8-75-A4 (hex) LCFC(HeFei) Electronics Technology co., ltd
F875A4 (base 16) LCFC(HeFei) Electronics Technology co., ltd
YunGu Road 3188-1
Hefei Anhui 230000
CN

00-D2-B1 (hex) TPV Display Technology (Xiamen) Co.,Ltd.
00D2B1 (base 16) TPV Display Technology (Xiamen) Co.,Ltd.
No.1, Xianghai Road, Xiamen Torch Hi-Tech Industrial Development Zone
XM Fujian 361101
CN

1C-44-55 (hex) Sieb & Meyer AG
1C4455 (base 16) Sieb & Meyer AG
Auf dem Schmaarkamp 21
Lueneburg 21339
DE

E0-1F-88 (hex) Xiaomi Communications Co Ltd
E01F88 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

80-32-53 (hex) Intel Corporate
803253 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C0-E4-34
(hex) AzureWave Technology Inc.
C0E434 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

D0-3D-52 (hex) Ava Security Limited
D03D52 (base 16) Ava Security Limited
The Charter Building, Charter Place
Uxbridge UB8 1JG
GB

24-6F-8C (hex) Huawei Device Co., Ltd.
246F8C (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

1C-13-86 (hex) Huawei Device Co., Ltd.
1C1386 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

BC-2E-F6 (hex) Huawei Device Co., Ltd.
BC2EF6 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

44-55-C4 (hex) Huawei Device Co., Ltd.
4455C4 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong
523808
CN

AC-8D-34 (hex) HUAWEI TECHNOLOGIES CO.,LTD
AC8D34 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

80-31-F0 (hex) Samsung Electronics Co.,Ltd
8031F0 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

58-35-26 (hex) DEEPLET TECHNOLOGY CORP
583526 (base 16) DEEPLET TECHNOLOGY CORP
5F,No.9,Lane235,Pao-Chiao Rd., Hsin-Tien,
New Taipei City 23145
TW

40-11-75 (hex) IEEE Registration Authority
401175 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

84-A9-EA (hex) Career Technologies USA
84A9EA (base 16) Career Technologies USA
9134 Independence Ave
Chatsworth CA 91311
US

E4-05-F8 (hex) Bytedance
E405F8 (base 16) Bytedance
E World Center,11 Zhongguancun Street Haidian Dist
Beijing City Beijing 100102
CN

74-3C-18
(hex) Taicang T&W Electronics
743C18 (base 16) Taicang T&W Electronics
89# Jiang Nan RD

Suzhou Jiangsu 215412
CN

10-88-CE (hex) Fiberhome Telecommunication Technologies Co.,LTD
1088CE (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan City Hubei Province 430074
CN

8C-02-FA (hex) COMMANDO Networks Limited
8C02FA (base 16) COMMANDO Networks Limited
Rm407, 4th floor, 3-2 HuaYuan Rd., DaLang Subdistrict, LongHua District
Shenzhen Guangdong 518109
CN

F4-74-88 (hex) New H3C Technologies Co., Ltd
F47488 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

6C-1D-EB (hex) u-blox AG
6C1DEB (base 16) u-blox AG
Zuercherstrasse 68
Thalwil 8800
CH

28-7F-CF (hex) Intel Corporate
287FCF (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

4C-80-BA (hex) Wuhan
Tianyu Information Industry Co., Ltd.
4C80BA (base 16) Wuhan Tianyu Information Industry Co., Ltd.
HUST Industry Park, East-Lake Development Zone
Wuhan Hubei 430223
CN

34-B5-A3 (hex) CIG SHANGHAI CO LTD
34B5A3 (base 16) CIG SHANGHAI CO LTD
5th Floor, Building 8 No 2388 Chenhang Road
SHANGHAI 201114
CN

74-31-70 (hex) Arcadyan Technology Corporation
743170 (base 16) Arcadyan Technology Corporation

4F. , No. 9 , Park Avenue II,
Hsinchu 300
TW

00-00-84 (hex) SUPERNET
000084 (base 16) SUPERNET
846 DEL REY AVENUE
SUNNYVALE CA 94086
US

50-A1-32 (hex) Shenzhen MiaoMing Intelligent Technology Co.,Ltd
50A132 (base 16) Shenzhen MiaoMing Intelligent Technology Co.,Ltd
Chudong science and technology park, 111 shaxin road, tangxia town,
dongguan city guangdong province 523710
CN

80-78-71 (hex) ASKEY COMPUTER CORP
807871 (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG
RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585
TW

28-33-34 (hex) Huawei Device Co., Ltd.
283334 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

30-A2-C2 (hex) Huawei Device Co., Ltd.
30A2C2 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

DC-DF-D6 (hex) zte corporation
DCDFD6 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

AC-A8-8E (hex) SHARP Corporation
ACA88E (base 16) SHARP Corporation
1 Takumi-cho, Sakai-ku
Sakai City Osaka 590-8522
JP

98-41-5C (hex) Nintendo Co.,Ltd

98415C (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

70-54-25 (hex) ARRIS Group, Inc.
705425 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

5C-0B-CA
(hex) Tunstall Nordic AB
5C0BCA (base 16) Tunstall Nordic AB
Agnesfridsvagen 113A
Malmo 21237
SE

88-51-7A (hex) HMD Global Oy
88517A (base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo 02600
FI

AC-B3-B5 (hex) HUAWEI TECHNOLOGIES CO.,LTD
ACB3B5 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

84-80-94 (hex) Meter, Inc.
848094 (base 16) Meter, Inc.
148 Townsend St
San Francisco CA 94107
US

10-B3-D5 (hex) Cisco Systems, Inc
10B3D5 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

F4-9C-12 (hex) Structab AB
F49C12 (base 16) Structab AB
Slotsmöllan 14B
HALMSTAD 30231
SE

60-AB-14 (hex) LG Innotek
60AB14 (base 16) LG Innotek
26, Hanamsandan 5beon-ro
Gwangju Gwangsan-gu 506-731
KR

BC-62-D2 (hex) Genexis International B.V.
BC62D2
(base 16) Genexis International B.V.
Waldfeuchterbaan 124
Maria Hoop Maria Hoop 6105 BP
NL

6C-9E-7C (hex) Fiberhome Telecommunication Technologies Co.,LTD
6C9E7C (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

84-D1-5A (hex) TCT mobile ltd
84D15A (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

F0-86-20 (hex) Arcadyan Corporation
F08620 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

DC-CC-8D (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
DCCC8D (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

B8-F6-53 (hex) Shenzhen Jingxun Software Telecommunication Technology Co.,Ltd
B8F653 (base 16) Shenzhen Jingxun Software Telecommunication Technology Co.,Ltd
3/F,A5
Building Zhiyuan Community No.1001,Xueyuan Road Nanshan District
Shenzhen Guangdong 518055
CN

4C-7A-48 (hex) Nippon Seiki (Europe) B.V.
4C7A48 (base 16) Nippon Seiki (Europe) B.V.
Antareslaan 27
Hoofddorp 2132

NL

F4-B6-88 (hex) PLANTRONICS, INC.
F4B688 (base 16) PLANTRONICS, INC.
345 ENCINAL STREET
SANTA CRUZ CA 95060
US

00-0C-86 (hex) Cisco Systems, Inc
000C86 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

08-3A-88 (hex) Universal Global Scientific Industrial Co., Ltd.
083A88 (base 16) Universal Global Scientific Industrial Co., Ltd.
141, Lane 351, Taiping Road, Sec.1,Tsao Tuen
Nan-Tou Taiwan 54261
TW

08-31-8B (hex) HUAWEI TECHNOLOGIES CO.,LTD
08318B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

4C-B1-CD (hex) Ruckus Wireless
4CB1CD (base 16) Ruckus
Wireless
350 West Java Drive
Sunnyvale CA 94089
US

F8-3C-BF (hex) BOTATO ELECTRONICS SDN BHD
F83CBF (base 16) BOTATO ELECTRONICS SDN BHD
c-1-2, JALAN BK5A/2B 47180,BANDAR KINRARA
PUCHONG SELANGOR 47180
MY

FC-58-9A (hex) Cisco Systems, Inc
FC589A (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

F0-5C-77 (hex) Google, Inc.
F05C77 (base 16) Google, Inc.
1600 Amphitheatre Parkway

Mountain View CA 94043
US

44-67-47 (hex) HUAWEI TECHNOLOGIES CO.,LTD
446747 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

88-4A-70 (hex) Wacom Co.,Ltd.
884A70 (base 16) Wacom Co.,Ltd.
Sumitomo Fudosan Shinjuku Grand Tower 31F,8-17-1
Nishi-shinjuku,Shinjuku-ku Tokyo 160-6131
JP

A4-63-A1 (hex) Inventus Power Eletronica do Brasil LTDA
A463A1 (base 16) Inventus Power Eletronica do Brasil
LTDA
Av Buriti, 4285 Distrito Industrial
Manaus Amazonas 69075000
BR

3C-9D-56 (hex) HUAWEI TECHNOLOGIES CO.,LTD
3C9D56 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

70-FD-45 (hex) HUAWEI TECHNOLOGIES CO.,LTD
70FD45 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F4-B5-BB (hex) CERAGON NETWORKS
F4B5BB (base 16) CERAGON NETWORKS
24 RAUEL WALLENBERG STREET
TEL-AVIV 96719
IL

54-2B-8D (hex) Apple, Inc.
542B8D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

6C-D7-1F (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
6CD71F (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD

NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

44-D5-F2 (hex) IEEE Registration Authority
44D5F2 (base 16) IEEE Registration
Authority
445 Hoes Lane
Piscataway NJ 08554
US

0C-DD-24 (hex) Intel Corporate
0CDD24 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

8C-49-62 (hex) Roku, Inc
8C4962 (base 16) Roku, Inc
1155 Coleman Ave
San Jose CA 95110
US

50-7A-C5 (hex) Apple, Inc.
507AC5 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

4C-6B-E8 (hex) Apple, Inc.
4C6BE8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

8C-86-1E (hex) Apple, Inc.
8C861E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-1D-29 (hex) Doro AB
001D29 (base 16) Doro AB
Magistratsvägen 10
Lund 226 43
SE

EC-A5-DE (hex) ONYX WIFI Inc

ECA5DE (base 16) ONYX WIFI Inc
9891 Irvine Center Drive, Suite 200
Irvine 92618
US

C4-AC-59 (hex) Murata Manufacturing Co., Ltd.
C4AC59 (base 16) Murata Manufacturing
Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

58-16-D7 (hex) ALPSALPINE CO,.LTD
5816D7 (base 16) ALPSALPINE CO,.LTD
nishida 6-1
Kakuda-City Miyagi-Pref 981-1595
JP

FC-A4-7A (hex) IEEE Registration Authority
FCA47A (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

38-18-4C (hex) Sony Home Entertainment&Sound Products Inc
38184C (base 16) Sony Home Entertainment&Sound Products Inc
Sony City Osaki 2-10-1 Osaki Shinagawa-ku
Tokyo Japan 141-8610
JP

34-75-63 (hex) SHENZHEN RF-LINK TECHNOLOGY CO.,LTD.
347563 (base 16) SHENZHEN RF-LINK TECHNOLOGY CO.,LTD.
Bldg56A,6/F,Baotian Rd3,Xixiang Town,Baoan District,
Shenzhen Guangdong 518000
CN

14-2E-5E (hex) Sercomm Corporation.
142E5E (base 16) Sercomm Corporation.
3F,No.81,Yu-Yih Rd.,Chu-Nan Chen
Miao-Lih Hsuan 115
TW

00-25-CB (hex) Reiner SCT
0025CB (base 16) Reiner
SCT
Reiner Kartengeräte GmbH & Co. KG.
Furtwangen 78120
DE

44-23-7C (hex) Beijing Xiaomi Mobile Software Co., Ltd
44237C (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

30-94-35 (hex) vivo Mobile Communication Co., Ltd.
309435 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

50-EB-71 (hex) Intel Corporate
50EB71 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

D4-4B-B6 (hex) Zhejiang Tmall Technology Co., Ltd.
D44BB6 (base 16) Zhejiang Tmall Technology Co., Ltd.
Ali Center,No.3331 Keyuan South RD (Shenzhen bay), Nanshan District, Shenzhen Guangdong province
Shenzhen GuangDong 518000
CN

C0-64-E4 (hex) Cisco Systems, Inc
C064E4 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San
Jose CA 94568
US

D8-2F-E6 (hex) Zhejiang Tmall Technology Co., Ltd.
D82FE6 (base 16) Zhejiang Tmall Technology Co., Ltd.
Ali Center,No.3331 Keyuan South RD (Shenzhen bay), Nanshan District, Shenzhen Guangdong province
Shenzhen GuangDong 518000
CN

F0-68-65 (hex) Taicang T&W Electronics
F06865 (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

14-0F-42 (hex) Nokia
140F42 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6

CA

00-6D-61 (hex) Guangzhou V-SOLUTION Electronic Technology Co., Ltd.
006D61 (base 16) Guangzhou V-SOLUTION Electronic Technology Co., Ltd.
Room 601,Originality Building B2, NO.162 Science Avenue,Science Town
Guangzhou Guangdong 510663
CN

78-CC-2B (hex) SINEWY TECHNOLOGY CO., LTD
78CC2B (base 16) SINEWY TECHNOLOGY CO., LTD
2F., No.179, Dongmin Rd.
Toufen City, Miaoli County 351
TW

50-D4-F7 (hex) TP-LINK TECHNOLOGIES
CO.,LTD.
50D4F7 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

00-0A-17 (hex) NESTAR COMMUNICATIONS, INC
000A17 (base 16) NESTAR COMMUNICATIONS, INC
No.6,19 Lane Bade Road
HSINCHU 300
TW

B8-66-85 (hex) Sagemcom Broadband SAS
B86685 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

B4-54-59 (hex) China Mobile (Hangzhou) Information Technology Co., Ltd.
B45459 (base 16) China Mobile (Hangzhou) Information Technology Co., Ltd.
No. 1600 Yuhangtang Road, Wuchang Street, Yuhang District
Hangzhou Zhejiang 310000
CN

38-1A-52 (hex) Seiko Epson Corporation
381A52 (base 16) Seiko Epson Corporation
2070 Kotobuki Koaka
Matsumoto-shi Nagano-ken 399-8702
JP

5C-87-9C (hex) Intel Corporate
5C879C (base 16) Intel

Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

24-EE-9A (hex) Intel Corporate
24EE9A (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

E4-FD-A1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E4FDA1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E4-19-C1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E419C1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B4-52-A9 (hex) Texas Instruments
B452A9 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

D8-AF-81 (hex) AO
D8AF81 (base 16) AO
Filippovskiy per., 8/1
Moscow 119019
RU

1C-20-DB (hex) HUAWEI TECHNOLOGIES CO.,LTD
1C20DB (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D0-C6-5B
(hex) HUAWEI TECHNOLOGIES CO.,LTD
D0C65B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

90-78-B2 (hex) Xiaomi Communications Co Ltd
9078B2 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

78-C3-13 (hex) China Mobile Group Device Co.,Ltd.
78C313 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

74-34-AE (hex) this is engineering Inc.
7434AE (base 16) this is engineering Inc.
352, 815 Daewangpangyo-ro, Sujeong-gu
Seongnam-si Gyeonggi-do 13449
KR

D0-C8-57 (hex) IEEE Registration Authority
D0C857 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

54-EF-44 (hex) Lumi United Technology Co., Ltd
54EF44 (base 16) Lumi United
Technology Co., Ltd
8th Floor, JinQi Wisdom Valley, No.1 TangLing Road, LinXian Ave, Taoyuan Residential District,Nanshan District
ShenZhen GuangDong 518055
CN

00-09-70 (hex) Vibration Research Corporation
000970 (base 16) Vibration Research Corporation
2385 Wilshere Drive
Jenison MI 49428
US

14-A2-A0 (hex) Cisco Systems, Inc
14A2A0 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E4-AB-89 (hex) MitraStar Technology Corp.
E4AB89 (base 16) MitraStar Technology Corp.
No. 6, Innovation Road II,
Hsinchu 300
TW

AC-83-E9 (hex) Beijing Zile Technology Co., Ltd
AC83E9 (base 16) Beijing Zile Technology Co., Ltd
Tecent WeWork, Huilongguan East Avenue, Changping District
Beijing Beijing 100096
CN

D8-CA-06 (hex) Titan DataCenters France
D8CA06 (base 16) Titan DataCenters France
E.SpacePark 45 Allee des ormes
mougins 06250
FR

60-95-CE (hex) IEEE
Registration Authority
6095CE (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

74-60-FA (hex) HUAWEI TECHNOLOGIES CO.,LTD
7460FA (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C4-06-83 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C40683 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

94-D0-0D (hex) HUAWEI TECHNOLOGIES CO.,LTD
94D00D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C4-8A-5A (hex) JFCONTROL
C48A5A (base 16) JFCONTROL
1449-37 Seoburo
Suwon Gyunggi-do 16643
KR

B4-9A-95 (hex) Shenzhen Boomtech Industrial Corporation
B49A95 (base 16) Shenzhen Boomtech Industrial Corporation
2F, Block E, Bao'an Intelligent Valley, Yingtian Road

No.4 Xixiang Sub-District Office, Bao'an District
Shenzhen Guangdong 518102
CN

8C-FD-18 (hex) HUAWEI TECHNOLOGIES CO.,LTD
8CFD18 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

FC-BC-D1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
FCBCD1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

8C-E5-C0 (hex) Samsung Electronics Co.,Ltd
8CE5C0 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F0-8A-76 (hex) Samsung Electronics Co.,Ltd
F08A76 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

EC-AA-25 (hex) Samsung Electronics Co.,Ltd
ECAA25 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

68-7D-6B (hex) Samsung Electronics Co.,Ltd
687D6B (base
16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

48-51-69 (hex) Samsung Electronics Co.,Ltd
485169 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

40-2B-50 (hex) ARRIS Group, Inc.

402B50 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1F-47 (hex) MCS Logic Inc.
001F47 (base 16) MCS Logic Inc.
6F. Samho Center B Bldg., 275-6
Seoul 137-941
KR

74-AD-B7 (hex) China Mobile Group Device Co.,Ltd.
74ADB7 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street
Beijing 100053
CN

BC-7F-A4 (hex) Xiaomi Communications Co Ltd
BC7FA4 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

90-47-3C (hex) China Mobile Group Device Co.,Ltd.
90473C (base 16) China Mobile Group Device
Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

7C-21-D8 (hex) Shenzhen Think Will Communication Technology co., LTD.
7C21D8 (base 16) Shenzhen Think Will Communication Technology co., LTD.
16F,Block A,Central Plaza,No.2002,Baoyuan Rd.,Baoan District
Shenzhen 518101
CN

FC-49-2D (hex) Amazon Technologies Inc.
FC492D (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

74-EE-2A (hex) SHENZHEN BILIAN ELECTRONIC CO.LTD
74EE2A (base 16) SHENZHEN BILIAN ELECTRONIC CO.LTD
NO.268 Fuqian Rd, Jutang community, Guanlan Town, Longhua New district
shenzhen guangdong 518000
CN

08-00-39 (hex) SPIDER SYSTEMS LIMITED
080039 (base 16) SPIDER SYSTEMS LIMITED
SPIDER PARK
SCOTLAND
GB

FC-EA-50 (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
FCEA50 (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas
Penang 11900
MY

00-E0-6B (hex) W&G SPECIAL PRODUCTS
00E06B (base 16) W&G SPECIAL PRODUCTS
SCEINCE PARK EINDHOVIN 5049

NL

D4-F0-57 (hex) Nintendo Co.,Ltd
D4F057 (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

88-9E-33 (hex) TCT mobile ltd
889E33 (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

6C-8A-EC (hex) Nantong Coship Electronics Co., Ltd.
6C8AEC (base 16) Nantong Coship Electronics Co., Ltd.
No.188 Xinsheng Road
Nantong Jiangsu 226001
CN

84-C2-E4 (hex) Jiangsu Qinheng Co., Ltd.
84C2E4 (base 16) Jiangsu Qinheng Co., Ltd.
No. 18, Ningshuang Road
Nanjing Jiangsu 210012
CN

B4-CF-E0 (hex) Sichuan tianyi kanghe communications co., LTD
B4CFE0 (base 16) Sichuan tianyi kanghe communications co., LTD
No.198, section 1, xueshan avenue, jinyuan town, dayi county
chengdu

sichuan 611330
CN

6C-F1-7E (hex) Zhejiang Uniview Technologies Co.,Ltd.
6CF17E (base 16) Zhejiang Uniview Technologies Co.,Ltd.
No.88,Jiangling Road
Hangzhou Zhejiang,P.R.China 310051
CN

D8-F1-5B (hex) Espressif Inc.
D8F15B (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

10-3D-3E (hex) China Mobile Group Device Co.,Ltd.
103D3E (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

64-CC-22 (hex) Arcadyan Corporation
64CC22 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

4C-91-57 (hex) Fujian LANDI Commercial Equipment Co.,Ltd
4C9157 (base 16) Fujian LANDI Commercial Equipment Co.,Ltd
Building 17,the 1st Section ,Fuzhou Software Park
No.89 Software Road Fuzhou ,Fujian 350003
CN

48-87-64 (hex) vivo Mobile
Communication Co., Ltd.
488764 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

5C-1C-B9 (hex) vivo Mobile Communication Co., Ltd.
5C1CB9 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

C0-FD-84 (hex) zte corporation
C0FD84 (base 16) zte corporation

12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

9C-25-BE (hex) Wildlife Acoustics, Inc.
9C25BE (base 16) Wildlife Acoustics, Inc.
3 Mill and Main Place, Suite 210
MAYNARD MA 01754
US

D0-39-EA (hex) NetApp
D039EA (base 16) NetApp
1395 Crossman Ave
Sunnyvale, CA 94089
US

F8-DF-E1 (hex) MyLight Systems
F8DFE1 (base 16) MyLight Systems
290 rue Ferdinand Perrier
Saint Priest 69800
FR

44-4B-7E (hex) Fiberhome Telecommunication Technologies Co.,LTD
444B7E
(base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

E8-D0-FC (hex) Liteon Technology Corporation
E8D0FC (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

E8-E8-B7 (hex) Murata Manufacturing Co., Ltd.
E8E8B7 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

08-3A-2F (hex) Guangzhou Juan Intelligent Tech Joint Stock Co.,Ltd
083A2F (base 16) Guangzhou Juan Intelligent Tech Joint Stock Co.,Ltd
NO.9, street 3, HengLing industrial zone, Tangdong, tianhe district
Guangzhou Guangdong CN 510000
CN

1C-3A-60 (hex) Ruckus Wireless

1C3A60 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

60-09-C3 (hex) u-blox AG
6009C3 (base 16) u-blox AG
Zuercherstrasse 68
Thalwil 8800
CH

DC-8C-37 (hex) Cisco Systems, Inc
DC8C37
(base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

78-8C-77 (hex) LEXMARK INTERNATIONAL, INC.
788C77 (base 16) LEXMARK INTERNATIONAL, INC.
740 NEW CIRCLE ROAD
LEXINGTON KY 40550
US

3C-0C-7D (hex) Tiny Mesh AS
3C0C7D (base 16) Tiny Mesh AS
Elisabeth von Hübschs gate 6
MOSS 1534
NO

34-76-C5 (hex) I-O DATA DEVICE,INC.
3476C5 (base 16) I-O DATA DEVICE,INC.
3-10, SAKURADA-MACHI
KANAZAWA ISHIKAWA 920-8512
JP

60-D2-DD (hex) Shenzhen Baitong Putian Technology Co.,Ltd.
60D2DD (base 16) Shenzhen Baitong Putian Technology Co.,Ltd.
501,5/F,Building 1,No.2,Lianwei Street,Hualian Community,Longhua Street Longhua District
Shenzhen Guangdong 518109
CN

5C-32-C5 (hex) Teracom Ltd.
5C32C5 (base 16) Teracom Ltd.
11 Vasil Levski blvd.
Ruse 7019
BG

A8-DB-03 (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
A8DB03 (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T.
Bangsamak SEMTHAI, WELLGROW INDUSTRIAL ESTATE
Bangpakong Chachoengsao 24180
TH

30-89-44 (hex) DEVA Broadcast Ltd.
308944 (base 16) DEVA Broadcast Ltd.
Alexander Stamboliyski 65
Burgas Burgas 8000
BG

24-DA-33 (hex) HUAWEI TECHNOLOGIES CO.,LTD
24DA33 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

FC-AB-90 (hex) HUAWEI TECHNOLOGIES CO.,LTD
FCAB90 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A4-97-5C (hex) VTech Telecommunications Ltd.
A4975C (base 16) VTech Telecommunications Ltd.
23/F,Tai Ping Industrial Centre ,Block 1
Hong Kong 000000
CN

1C-27-04 (hex) zte corporation
1C2704 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

50-78-B3 (hex) zte
corporation
5078B3 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

F0-D4-F7 (hex) varram system
F0D4F7 (base 16) varram system
57, TECHNO 11-RO,YUSEONG-GU, DAEJEON, KOREA
DAEJEON 34036

KR

E0-CC-7A (hex) HUAWEI TECHNOLOGIES CO.,LTD
E0CC7A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B0-2A-1F (hex) Wingtech Group (HongKongLimited
B02A1F (base 16) Wingtech Group (HongKongLimited
FLAT/RM 1903 19/F PODIUM PLAZA 5HANOI ROAD TSIM SHA TSUI
Hong Kong Hong Kong 999077
HK

DC-68-0C (hex) Hewlett Packard Enterprise
DC680C (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

58-93-D8 (hex) Texas Instruments
5893D8 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

50-51-A9 (hex) Texas
Instruments
5051A9 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

F4-79-60 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F47960 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

14-52-90 (hex) KNS Group LLC (YADRO Company)
145290 (base 16) KNS Group LLC (YADRO Company)
Spartakovskaya sq., 14, bl. 1
Moscow 105082
RU

6C-23-CB (hex) Wattty Corporation
6C23CB (base 16) Wattty Corporation
2-15-31 takaokanishi nakaku

hamamatsushi shizuokaken 4338118
JP

60-AB-67 (hex) Xiaomi Communications Co Ltd
60AB67 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

AC-71-0C (hex) China Mobile Group Device Co.,Ltd.
AC710C (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing
100053
CN

AC-EE-70 (hex) Fontem Ventures BV
ACEE70 (base 16) Fontem Ventures BV
Motion Building 8F, Radarweg 60
Amsterdam Noord-Holland 1043NT
NL

00-B6-00 (hex) VOIM Co., Ltd.
00B600 (base 16) VOIM Co., Ltd.
70, Seotan-ro, Jinwi-myeon
Pyeongtaek-si Gyeonggi-do 17706
KR

44-18-FD (hex) Apple, Inc.
4418FD (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-5B-94 (hex) Apple, Inc.
005B94 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E0-89-7E (hex) Apple, Inc.
E0897E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-26-15 (hex) Teracom Limited
002615 (base 16) Teracom Limited

B-84
Noida Uttar Pradesh 201301
IN

9C-8E-DC (hex) Teracom Limited
9C8EDC (base 16) Teracom Limited
123456
Noida Uttar Pradesh 201301
IN

00-01-91 (hex) SYRED Data Systems
000191 (base 16) SYRED Data Systems
272
Lanes Mill Road
Howell NJ 07731
US

A8-34-6A (hex) Samsung Electronics Co.,Ltd
A8346A (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

48-46-C1 (hex) FN-LINK TECHNOLOGY LIMITED
4846C1 (base 16) FN-LINK TECHNOLOGY LIMITED
A Building,HuiXin industial park,No 31, YongHe road, Fuyong town, Bao'an District
SHENZHEN GUANGDONG 518100
CN

48-89-E7 (hex) Intel Corporate
4889E7 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

A0-BD-1D (hex) Zhejiang Dahua Technology Co., Ltd.
A0BD1D (base 16) Zhejiang Dahua Technology Co., Ltd.
No.1199,Waterfront Road
Hangzhou Zhejiang 310053
CN

B4-D0-A9 (hex) China Mobile Group Device Co.,Ltd.
B4D0A9 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

FC-29-F3 (hex) McPay Co.,LTD.

FC29F3 (base 16) McPay Co.,LTD.
No.801,
61, Digital-ro 31-gil, Guro-gu
Seoul 08375
KR

F8-AF-DB (hex) Fiberhome Telecommunication Technologies Co.,LTD
F8AFDB (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

AC-E2-D3 (hex) Hewlett Packard
ACE2D3 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston TX 77070
US

00-FD-22 (hex) Cisco Systems, Inc
00FD22 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

98-FA-9B (hex) LCFC(HeFei) Electronics Technology co., ltd
98FA9B (base 16) LCFC(HeFei) Electronics Technology co., ltd
YunGu Road 3188-1
Hefei Anhui 230000
CN

E4-9F-1E (hex) ARRIS Group, Inc.
E49F1E (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

2C-CC-E6 (hex) Skyworth Digital Technology(Shenzhen) Co.,Ltd
2CCCE6 (base 16) Skyworth Digital Technology(Shenzhen) Co.,Ltd
7F,Block A,Skyworth Building,
Shenzhen
Guangdong 518057
CN

CC-2C-83 (hex) DarkMatter L.L.C
CC2C83 (base 16) DarkMatter L.L.C
Level 15, Aldar HQ
Abu Dhabi 27655
AE

DC-ED-84 (hex) Haverford Systems Inc
DCED84 (base 16) Haverford Systems Inc
152 Robbins Road
Downingtown PA 19335
US

64-4C-36 (hex) Intel Corporate
644C36 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

7C-57-3C (hex) Aruba, a Hewlett Packard Enterprise Company
7C573C (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

AC-D5-64 (hex) CHONGQING FUGUI ELECTRONICS CO.,LTD.
ACD564 (base 16) CHONGQING FUGUI ELECTRONICS CO.,LTD.
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

94-D0-75 (hex) CIS Crypto
94D075 (base 16) CIS Crypto
Nauchnyy proezd 6
Moscow 117246
RU

28-B4-FB (hex) Sprocomm
Technologies CO.,LTD.
28B4FB (base 16) Sprocomm Technologies CO.,LTD.
5D F1.6 Block,Tianfa Building,Tianan Chegongmiao Industrial park,Futian Dist
shenzhen guangdong 518000
CN

C0-53-36 (hex) Beijing National Railway Research & Design Institute of Signal & Communication Group Co..Ltd.
C05336 (base 16) Beijing National Railway Research & Design Institute of Signal & Communication Group Co..Ltd.
7 floor, No.1 Automobile Museum South Road, Fengtai Science and Technology Park,
Beijing Beijing 100070
CN

60-6E-D0 (hex) SEAL AG
606ED0 (base 16) SEAL AG
Landstrasse 176

Wettingen 5430
CH

3C-20-F6 (hex) Samsung Electronics Co.,Ltd
3C20F6 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

7C-38-AD (hex) Samsung Electronics Co.,Ltd
7C38AD (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

40-F9-D5 (hex) Tecore Networks
40F9D5
(base 16) Tecore Networks
7030 Hi Tech Drive
Hanover MD 21076
US

E4-4C-C7 (hex) IEEE Registration Authority
E44CC7 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

D4-E8-80 (hex) Cisco Systems, Inc
D4E880 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

98-49-E1 (hex) Boeing Defence Australia
9849E1 (base 16) Boeing Defence Australia
GPO Box 767
Brisbane Queensland 4001
AU

04-D7-A5 (hex) New H3C Technologies Co., Ltd
04D7A5 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

2C-01-B5 (hex) Cisco Systems, Inc
2C01B5 (base 16) Cisco Systems, Inc

80 West Tasman Drive
San Jose CA 94568
US

88-5A-06 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
885A06 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG
GUAN GUANG DONG 523860
CN

54-47-D3 (hex) TSAT AS
5447D3 (base 16) TSAT AS
Martin Linges v 25
Fornebu 1364
NO

4C-4D-66 (hex) Nanjing Jiahao Technology Co., Ltd.
4C4D66 (base 16) Nanjing Jiahao Technology Co., Ltd.
Moling Industrial Park, Development Zone, Jiangning, Nanjing
Nanjing Jiangsu 211111
CN

A4-81-7A (hex) CIG SHANGHAI CO LTD
A4817A (base 16) CIG SHANGHAI CO LTD
5th Floor, Building 8 No 2388 Chenhang Road
SHANGHAI 201114
CN

CC-ED-DC (hex) MitraStar Technology Corp.
CCEDDC (base 16) MitraStar Technology Corp.
No. 6, Innovation Road II,
Hsinchu 300
TW

68-8B-0F (hex) China Mobile IOT Company Limited
688B0F (base 16) China Mobile IOT Company Limited
NO.8 Yu Ma Road, NanAn Area
Chongqing Chongqing 401336
CN

3C-F0-11 (hex) Intel Corporate
3CF011 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

D4-9C-DD (hex) AMPAK

Technology,Inc.
D49CDD (base 16) AMPAK Technology,Inc.
3F, No.15-1 Zhonghua Road, Hsinchu Industrail Park, Hukou,
Hsinchu Hsinchu,Taiwan R.O.C. 30352
TW

50-F7-22 (hex) Cisco Systems, Inc
50F722 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

98-09-CF (hex) OnePlus Technology (Shenzhen) Co., Ltd
9809CF (base 16) OnePlus Technology (Shenzhen) Co., Ltd
18C02, 18C03, 18C04 ,18C05,TAIRAN BUILDING,
Shenzhen Guangdong 518000
CN

B8-DE-5E (hex) LONGCHEER TELECOMMUNICATION LIMITED
B8DE5E (base 16) LONGCHEER TELECOMMUNICATION LIMITED
Building 1,No.401,Caobao Rd
Shanghai Xuhui District 200233
CN

F0-5C-19 (hex) Aruba, a Hewlett Packard Enterprise Company
F05C19 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

04-BD-88 (hex) Aruba, a Hewlett Packard Enterprise Company
04BD88 (base 16) Aruba, a Hewlett Packard
Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

9C-1C-12 (hex) Aruba, a Hewlett Packard Enterprise Company
9C1C12 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

A4-E7-E4 (hex) Connex GmbH
A4E7E4 (base 16) Connex GmbH
Elbestrasse 12
Oldenburg 26135
DE

B8-EF-8B (hex) SHENZHEN CANNICE TECHNOLOGY CO.,LTD
B8EF8B (base 16) SHENZHEN CANNICE TECHNOLOGY CO.,LTD
F-20,7A,Baoneng Technology Park
Shenzhen Guangdong 518109
CN

20-B7-80 (hex) Toshiba Visual Solutions Corporation Co.,Ltd
20B780 (base 16) Toshiba Visual Solutions Corporation Co.,Ltd
Shinkawasaki Mitsui Builing West Tower 19F, 1-1-2 Kashimada
Saiwai-ku, Kawasaki-shi Kanagawa 212-0058
JP

B8-18-6F (hex) ORIENTAL MOTOR CO., LTD.
B8186F (base 16) ORIENTAL MOTOR CO., LTD.
5-8-3 Tokodai
Tsukuba Ibaraki 300-2635
JP

00-1A-3F (hex) Intelbras
001A3F (base
16) Intelbras
BR 101, km 210, S/N°
São José Santa Catarina 88104800
BR

14-D4-FE (hex) ARRIS Group, Inc.
14D4FE (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

F0-B3-1E (hex) Universal Electronics, Inc.
F0B31E (base 16) Universal Electronics, Inc.
201 E. Sandpointe Ave
Santa Ana CA 92707
US

EC-A9-FA (hex) GUANGDONG GENIUS TECHNOLOGY CO., LTD.
ECA9FA (base 16) GUANGDONG GENIUS TECHNOLOGY CO., LTD.
#126,BBK Road,Wusha,Chang'An
Dong Guan Guang Dong 523860
CN

00-03-A5 (hex) Medea Corporation
0003A5 (base 16) Medea Corporation
5701 Lindero Canyon Rd.
Wetlake Village CA 91362

US

44-3C-88 (hex) FICOSA MAROC INTERNATIONAL
443C88 (base 16) FICOSA MAROC INTERNATIONAL
Zone Franche Technopolis Rocade Rabat-Salé 11103 Sala Al Jadida - Salé
Salé 11103
MA

84-1C-70 (hex) zte corporation
841C70 (base 16) zte corporation
12/F.,zte R&D building
,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

C4-F8-39 (hex) Actia Automotive
C4F839 (base 16) Actia Automotive
5 rue Jorge Semprun
TOULOUSE 31400
FR

BC-E6-7C (hex) Cambium Networks Limited
BCE67C (base 16) Cambium Networks Limited
Unit B2, Linhay Business Park,
Ashburton Devon TQ13 7UP
GB

7C-1E-06 (hex) New H3C Technologies Co., Ltd
7C1E06 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

F8-91-73 (hex) AEDLE SAS
F89173 (base 16) AEDLE SAS
11 Rue Campagne Première, Cour Intérieure, Entresol, CODE 13B80
Paris IDF 75014
FR

C8-4F-86 (hex) Sophos Ltd
C84F86 (base 16) Sophos Ltd
The Pentagon
Abingdon Oxfordshire OX14 3YP
GB

64-29-ED (hex) AO PKK Milandr
6429ED (base 16) AO PKK Milandr
Gergievsky prospekt, 5

Zelenograd Moscow 124498
RU

CC-D3-9D (hex) IEEE Registration
Authority
CCD39D (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

18-DF-B4 (hex) BOSUNG POWERTEC CO.,LTD.
18DFB4 (base 16) BOSUNG POWERTEC CO.,LTD.
70, Daechang-gil, Judeok-eup
Chungju-si Chungcheongbuk-do 27463
KR

F8-2F-6A (hex) ITEL MOBILE LIMITED
F82F6A (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

C0-D8-34 (hex) xvtec ltd
C0D834 (base 16) xvtec ltd
Ha'nagar 24
Hod Hasharon Israel 4527713
IL

54-47-41 (hex) XCHENG HOLDING
544741 (base 16) XCHENG HOLDING
ROOM 401F, Building 5, No.3000 LONG DONG Avenue, Pudong New District
Shanghai 201203
CN

CC-F7-35 (hex) Amazon Technologies Inc.
CCF735 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

B4-EC-02 (hex) ALPSALPINE CO,.LTD
B4EC02 (base 16) ALPSALPINE CO,.LTD
6-1
Kakuda
Miyagi-Pref 981-1595
JP

64-60-38 (hex) Hirschmann Automation and Control GmbH

646038 (base 16) Hirschmann Automation and Control GmbH
Stuttgarter Straße 45-51
Neckartenzlingen D-72654
DE

64-9D-99 (hex) FS COM INC
649D99 (base 16) FS COM INC
380 Centerpoint Blvd New Castle
New Castle DE 19720
US

00-16-9D (hex) Cisco Systems, Inc
00169D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

78-DD-12 (hex) Arcadyan Corporation
78DD12 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

D4-25-CC (hex) IEEE Registration Authority
D425CC (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

C8-F7-42 (hex) HangZhou Gubei Electronics Technology Co.,Ltd
C8F742 (base 16) HangZhou Gubei Electronics Technology Co.,Ltd
Room 106, No.611 Jianghong Road, Binjiang District, Hangzhou,
Zhejiang, China
Hangzhou ZheJiang 310052
CN

00-6F-F2 (hex) MITSUMI ELECTRIC CO.,LTD.
006FF2 (base 16) MITSUMI ELECTRIC CO.,LTD.
2-11-2, Tsurumaki
Tama-shi Tokyo 206-8567
JP

8C-6D-C4 (hex) Megapixel VR
8C6DC4 (base 16) Megapixel VR
340 S. Lemon Ave
Walnut CA 91789
US

2C-5D-34 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
2C5D34 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

9C-14-63 (hex) Zhejiang Dahua Technology Co., Ltd.
9C1463 (base 16) Zhejiang Dahua Technology Co., Ltd.
No.1199,Waterfront Road
Hangzhou Zhejiang 310053
CN

30-DF-8D (hex) SHENZHEN GONGJIN ELECTRONICS CO.,LT
30DF8D (base 16) SHENZHEN GONGJIN ELECTRONICS CO.,LT
SONGGANG
SHENZHEN GUANGDONG 518105
CN

D4-C9-3C (hex) Cisco Systems, Inc
D4C93C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA
94568
US

E0-75-0A (hex) ALPSALPINE CO,.LTD
E0750A (base 16) ALPSALPINE CO,.LTD
6-1
kakuda-City 981-1595
US

00-19-C1 (hex) ALPSALPINE CO,.LTD
0019C1 (base 16) ALPSALPINE CO,.LTD
1-2-1, Okinouchi,
Soma-city, Fukushima-pref., 976-8501
JP

00-16-FE (hex) ALPSALPINE CO,.LTD
0016FE (base 16) ALPSALPINE CO,.LTD
1-2-1, Okinouchi,
Soma-city, Fukushima-pref., 976-8501
JP

9C-8D-7C (hex) ALPSALPINE CO,.LTD
9C8D7C (base 16) ALPSALPINE CO,.LTD
6-1
Kakuda Miyagi-Pref 981-1595
JP

00-24-33 (hex) ALPSALPINE CO,.LTD
002433 (base 16) ALPSALPINE CO,.LTD
1-2-1, Okinouchi,
Soma-city, Fukushima-pref., 976-8501
JP

00-23-06 (hex) ALPSALPINE CO,.LTD
002306 (base 16) ALPSALPINE CO,.LTD
1-2-1, Okinouchi,
Soma-city, Fukushima-pref., 976-8501
JP

BC-75-36 (hex) ALPSALPINE CO,.LTD
BC7536 (base 16) ALPSALPINE CO,.LTD
nishida 6-1
Kakuda-City Miyagi-Pref 981-1595
JP

E0-AE-5E
(hex) ALPSALPINE CO,.LTD
E0AE5E (base 16) ALPSALPINE CO,.LTD
6-3-36 Furukawanakazato,
Osaki Miyagi-pref 989-6181
JP

48-61-A3 (hex) Concern Axion JSC
4861A3 (base 16) Concern Axion JSC
90, M. Gorkogo St.
Izhevsk Udmurt Republic 426000
RU

D4-B7-61 (hex) Sichuan AI-Link Technology Co., Ltd.
D4B761 (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou,Industrial Park
Anzhou,Industrial Park Sichuan 621000
CN

7C-03-5E (hex) Xiaomi Communications Co Ltd
7C035E (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

44-FE-3B (hex) Arcadyan Corporation
44FE3B (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071

TW

D8-3A-F5 (hex) Wideband Labs LLC
D83AF5 (base 16) Wideband Labs LLC
1027 S Main Street, STE 330
Joplin MO 64801
US

38-D9-A5
(hex) Mikotek Information Inc.
38D9A5 (base 16) Mikotek Information Inc.
3F, No. 20, Aly. 18, Ln. 478, Ruiguang Rd.
Taipei 114
TW

30-4A-26 (hex) Shenzhen Trolink Technology CO, LTD
304A26 (base 16) Shenzhen Trolink Technology CO, LTD
201 B building 4 shijie, Chashu industry 505 block, Baoan airport Sanwei community, Hangcheng street Baoan area.
Shenzhen GuangDong 518000
CN

D4-67-D3 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
D467D3 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

A4-12-32 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
A41232 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

48-E3-C3 (hex) JENOPTIK Advanced Systems GmbH
48E3C3 (base 16) JENOPTIK Advanced Systems GmbH
Feldstrasse 155
Wedel Schleswig-Holstein
22880
DE

CC-35-5A (hex) SecuGen Corporation
CC355A (base 16) SecuGen Corporation
2065 Martin Ave, Suite 108
Santa Clara CA 95050
US

4C-87-5D (hex) Bose Corporation

4C875D (base 16) Bose Corporation
The Mountain
Framingham MA 01701-9168
US

B0-E7-DE (hex) Homa Technologies JSC
B0E7DE (base 16) Homa Technologies JSC
Building 5, Quang Trung Software City, District 12
Ho Chi Minh 729226
VN

00-D2-79 (hex) VINGROUP JOINT STOCK COMPANY
00D279 (base 16) VINGROUP JOINT STOCK COMPANY
Number 7, Bang Lang 1 street, Long Bien district
Ha Noi Ha Noi 100000
VN

00-00-4C (hex) NEC Corporation
00004C (base 16) NEC Corporation
7-1 SHIBA 5-CHOME
TOKYO 108-01 0000
JP

8C-CF-8F (hex) ITC Systems
8CCF8F (base 16) ITC Systems
800 Fee Fee Road
St Louis MO 63043
US

4C-96-2D (hex) Fresh AB
4C962D (base 16) Fresh AB
Gransholmsvägen 136
Gemla 35599
SE

28-75-D8
(hex) FUJIAN STAR-NET COMMUNICATION CO.,LTD
2875D8 (base 16) FUJIAN STAR-NET COMMUNICATION CO.,LTD
19-22# Building, Star-net Science Plaza, Juyuanzhou,
FUZHOU FUJIAN 350002
CN

48-4A-30 (hex) George Robotics Limited
484A30 (base 16) George Robotics Limited
Salisbury House, Station Road
Cambridge CB1 2LA
GB

90-E2-02 (hex) Texas Instruments
90E202 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

4C-E5-AE (hex) Tianjin Beebox Intelligent Technology Co.,Ltd.
4CE5AE (base 16) Tianjin Beebox Intelligent Technology Co.,Ltd.
Room 103NO.1 of the 2nd Street
Tianjin Pilot Free Trade Zone Airport EconomicArea Airport International Logistics Zone, Tianjin 300300
CN

F4-C7-C8 (hex) Kelvin Inc.
F4C7C8 (base 16) Kelvin Inc.
400 Centennial Parkway, Suite 190
Louisville CO 80027
US

80-54-6A (hex) SHENZHEN GONGJIN ELECTRONICS CO.,LT
80546A (base 16) SHENZHEN
GONGJIN ELECTRONICS CO.,LT
SONGGANG
SHENZHEN GUANGDONG 518105
CN

B4-47-F5 (hex) Earda Technologies co Ltd
B447F5 (base 16) Earda Technologies co Ltd
Block A,Lianfeng Creative Park, #2 Jisheng Rd., Nansha District
Guangzhou Guangdong 511455
CN

74-8A-0D (hex) ARRIS Group, Inc.
748A0D (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

CC-75-E2 (hex) ARRIS Group, Inc.
CC75E2 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

A8-9C-A4 (hex) Furrion Limited
A89CA4 (base 16) Furrion Limited
Units 503C & 505-508, Level 5, Core D, Cyberport 3, 100 Cyberport Road
Hong Kong 00000
HK

58-9E-C6 (hex) Gigaset Communications GmbH
589EC6 (base 16) Gigaset Communications GmbH
Frankenstrasse 2
Bocholt NRW 46395
DE

64-58-AD (hex) China Mobile IOT Company Limited
6458AD (base 16) China Mobile IOT Company Limited
NO.8 Yu Ma Road,
NanAn Area
Chongqing Chongqing 401336
CN

84-A9-3E (hex) Hewlett Packard
84A93E (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston TX 77070
US

34-93-42 (hex) TTE Corporation
349342 (base 16) TTE Corporation
7/F, Building 22E 22 Science Park East Avenue Hong Kong Science Park Shatin, N.T.
Hong Kong 999077
HK

1C-F2-9A (hex) Google, Inc.
1CF29A (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

30-24-78 (hex) Sagemcom Broadband SAS
302478 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

A0-A3-B8 (hex) WISCLOUD
A0A3B8 (base 16) WISCLOUD
Tech Park Xia Sha
Hangzhou Zhejiang 310000
CN

38-F9-D3 (hex) Apple, Inc.
38F9D3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

FC-18-3C (hex) Apple, Inc.
FC183C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino
CA 95014
US

18-4B-DF (hex) Caavo Inc
184BDF (base 16) Caavo Inc
1525 McCarthy Blvd., #1182
Milpitas 95035
US

FC-77-74 (hex) Intel Corporate
FC7774 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

70-0B-4F (hex) Cisco Systems, Inc
700B4F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E4-38-8C (hex) Digital Products Limited
E4388C (base 16) Digital Products Limited
53 Clark Road
Rothesay New Brunswick E2E 2K9
CA

B8-9A-9A (hex) Xin Shi Jia Technology (Beijing) Co.,Ltd
B89A9A (base 16) Xin Shi Jia Technology (Beijing) Co.,Ltd
Room 1002, A Tower, Zhongguancun E World Wealth Center, No.11, Zhongguancun Street, Haidian District, Beijing City
Beijing Beijing 100190
CN

64-C7-53 (hex) Apple, Inc.
64C753 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B0-C3-87 (hex) GOEFER, Inc.
B0C387

(base 16) GOEFER, Inc.
118 N. Market St.
Frederick MD 21701
US

08-6B-D7 (hex) Silicon Laboratories
086BD7 (base 16) Silicon Laboratories
7000 W. William Cannon Dr.
Austin TX 78735
US

A4-0C-66 (hex) Shenzhen Colorful Yugong Technology and Development Co., Ltd.
A40C66 (base 16) Shenzhen Colorful Yugong Technology and Development Co., Ltd.
13F, Central Business Tower, No.88 Fuhua First Rd., Futian District, Shenzhen, Guangdong, China
Shenzhen Guangdong 518000
CN

44-55-B1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
4455B1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

98-F9-C7 (hex) IEEE Registration Authority
98F9C7 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

D8-A7-56 (hex) Sagemcom Broadband SAS
D8A756 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil
Malmaison Cedex hauts de seine 92848
FR

D8-D6-F3 (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
D8D6F3 (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

8C-7B-F0 (hex) Xufeng Development Limited
8C7BF0 (base 16) Xufeng Development Limited
FLAT/RM1616 16F INTERATIONAL TRADE CENTRE 11-19 SHA TSUI RD TSUEN WAN
HongKong HongKong 999077
HK

E0-A5-09 (hex) Bitmain Technologies Inc
E0A509 (base 16) Bitmain Technologies Inc
Building 25, North Olympic Science & Technology Park, Baosheng South Road, Haidian District, Beijing, China
Beijing BEIJING CHINA
CN

3C-5C-C4 (hex) Amazon Technologies Inc.
3C5CC4 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

F4-39-09 (hex) Hewlett Packard
F43909 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston TX 77070
US

20-1F-31 (hex) Inteno Broadband
Technology AB
201F31 (base 16) Inteno Broadband Technology AB
Stensätravägen 13
Skärholmen SE 127 39
SE

6C-2C-DC (hex) Skyworth Digital Technology(Shenzhen) Co.,Ltd
6C2CDC (base 16) Skyworth Digital Technology(Shenzhen) Co.,Ltd
7F,Block A,Skyworth Building,
Shenzhen Guangdong 518057
CN

78-35-A0 (hex) Zurn Industries LLC
7835A0 (base 16) Zurn Industries LLC
1747 Commerce Way
Paso Robles CA 93446
US

54-83-3A (hex) Zyxel Communications Corporation
54833A (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

24-84-98 (hex) Beijing Jiaoda Microunion Tech.Co.,Ltd.
248498 (base 16) Beijing Jiaoda Microunion Tech.Co.,Ltd.
4-5/F,89 Building, First Section No.44 Gaoliangqiao Xie Street, Haidian District, Beijing, China
Beijing Beijing 100044
CN

2C-CC-44 (hex) Sony Interactive Entertainment Inc.
2CCC44 (base 16) Sony Interactive
Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

F4-7D-EF (hex) Samsung Electronics Co.,Ltd
F47DEF (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

7C-8B-B5 (hex) Samsung Electronics Co.,Ltd
7C8BB5 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

78-70-52 (hex) Welotec GmbH
787052 (base 16) Welotec GmbH
zum Hagenbach 7
Laer NRW 48366
DE

D8-A9-8B (hex) Texas Instruments
D8A98B (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

A8-3F-A1 (hex) IEEE Registration Authority
A83FA1 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

F4-DB-E6 (hex) Cisco Systems, Inc
F4DBE6 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

C0-74-AD (hex) Grandstream Networks, Inc.
C074AD (base 16) Grandstream Networks,
Inc.
1297 Beacon Street

Brookline MA 02446
US

F0-95-F1 (hex) Carl Zeiss AG
F095F1 (base 16) Carl Zeiss AG
Carl-Zeiss-Straße 22
Oberkochen 73447
DE

00-F4-8D (hex) Liteon Technology Corporation
00F48D (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

70-2E-D9 (hex) Guangzhou Shiyuan Electronics Co., Ltd.
702ED9 (base 16) Guangzhou Shiyuan Electronics Co., Ltd.
No.6, 4th Yunpu Road, Yunpu industry District
Gunagzhou Guangdong 510530
CN

70-19-2F (hex) HUAWEI TECHNOLOGIES CO.,LTD
70192F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

6C-9B-C0 (hex) Chemoptics Inc.
6C9BC0 (base 16) Chemoptics Inc.
261, Techno 2-ro, Yuseong-gu
Daejeon 34026
KR

10-B9-F7 (hex) Niko-Servodan
10B9F7 (base 16) Niko-Servodan
Stenager 5
Sønderborg 6400
DK

14-EF-CF
(hex) SCHREDER
14EFCF (base 16) SCHREDER
Rue Lusambo 67
Brussels 1190
BE

38-30-F9 (hex) LG Electronics (Mobile Communications)
3830F9 (base 16) LG Electronics (Mobile Communications)

60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

58-E6-BA (hex) Apple, Inc.
58E6BA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

18-A7-F1 (hex) Qingdao Haier Technology Co.,Ltd
18A7F1 (base 16) Qingdao Haier Technology Co.,Ltd
Building A01,Haier Information Park, No.1 Haier Road,
Qingdao Shandong 266101
CN

90-E1-7B (hex) Apple, Inc.
90E17B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D8-1C-79 (hex) Apple, Inc.
D81C79 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

10-C2-2F (hex) China Entropy Co., Ltd.
10C22F (base 16) China Entropy Co., Ltd.
Haidian District
Beijing 100085
CN

BC-38-65 (hex) JWCNETWORKS
BC3865
(base 16) JWCNETWORKS
114, Gasan digital 2-ro, Geumcheon-gu,
Seoul 08506
KR

04-EB-40 (hex) Cisco Systems, Inc
04EB40 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

18-01-F1 (hex) Xiaomi Communications Co Ltd

1801F1 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

44-E4-EE (hex) Wistron Neweb Corporation
44E4EE (base 16) Wistron Neweb Corporation
No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu R.O.C. 308
TW

C0-84-7D (hex) AMPAK Technology, Inc.
C0847D (base 16) AMPAK Technology, Inc.
No.1,Jen Ai Road Hsinchu Industrial Park, Hukou
Hsinchu Taiwan ROC. 30352
TW

C4-4F-33 (hex) Espressif Inc.
C44F33 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

54-6A-D8 (hex) Elster
Water Metering
546AD8 (base 16) Elster Water Metering
Mas des Cavaliers II, 471 Rue Charles Nungesser
Mauguio 34130
FR

00-A5-BF (hex) Cisco Systems, Inc
00A5BF (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

DC-41-E5 (hex) Shenzhen Zhixin Data Service Co., Ltd.
DC41E5 (base 16) Shenzhen Zhixin Data Service Co., Ltd.
Baoyuan Road F518 Fashion Creative Park F3 Blg208
Baoan District, Shenzhen Guangdong 518101
CN

C8-BA-E9 (hex) QDIS
C8BAE9 (base 16) QDIS
#512, Buliding B, 168 GaSanDigital 1st, GeumChun-Gu
SEOUL 08507
KR

04-09-A5 (hex) HFR, Inc.
0409A5 (base 16) HFR, Inc.
5F, Hana EZ Tower
Sungnam-si Kyunggi-do 463-870
KR

7C-D3-0A (hex) INVENTEC CORPORATION
7CD30A (base 16) INVENTEC CORPORATION
Inventec Building, 66 Hou-Kang Street
Taipei 111
TW

00-1E-33 (hex) INVENTEC CORPORATION
001E33 (base 16) INVENTEC CORPORATION
Inventec
Building, 66 Hou-Kang Street
Taipei 111
TW

FC-1D-84 (hex) Autobase
FC1D84 (base 16) Autobase
1201, Biz Center, SKnTechno Park, 124, Sagimakgol-ro, Jungwon-gu, Seongnam-si, Gyeonggi-do
Seongnam Gyeonggi 462-721
KR

24-21-24 (hex) Nokia
242124 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

94-91-7F (hex) ASKEY COMPUTER CORP
94917F (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585
TW

00-26-54 (hex) 3COM
002654 (base 16) 3COM
5353 Betsy Ross Drive
Santa Clara 95054-1162
US

00-50-DA (hex) 3COM
0050DA (base 16) 3COM
5400 BAYFRONT PLAZA
SANTA CLARA CA 95052
US

00-04-76 (hex) 3COM
000476 (base 16) 3COM
5400 Bayfront Plaza
Santa Clara CA 95052
US

00-04-75 (hex) 3COM
000475 (base 16) 3COM
5400 Bayfront Plaza
Santa Clara CA 95052
US

9C-0C-DF (hex) GUANGDONG
OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
9C0CDF (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

44-22-F1 (hex) S.FAC, INC
4422F1 (base 16) S.FAC, INC
Bldg A203 Techno2 ro 187
Yuseong-Gu Daejeon 34025
KR

00-D0-96 (hex) 3COM EUROPE LTD
00D096 (base 16) 3COM EUROPE LTD
BOUNDARY WAY
vvvvv UNITED KINGDOM
GB

30-09-F9 (hex) IEEE Registration Authority
3009F9 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

B4-DD-D0 (hex) Continental Automotive Hungary Kft
B4DDD0 (base 16) Continental Automotive Hungary Kft
Napmátka u. 6.
Budapest Pest H-1106
HU

48-F0-27 (hex) Chengdu newifi Co.,Ltd
48F027 (base 16) Chengdu newifi Co.,Ltd
C11 Building 2001,No.219 ,2nd Tianhua Road,Hi-tech zone
Chengdu Sichuan 610000

CN

B4-2E-99 (hex) GIGA-BYTE TECHNOLOGY CO.,LTD.
B42E99 (base 16) GIGA-BYTE
TECHNOLOGY CO.,LTD.
Pin-Jen City, Taoyuan, Taiwan, R.O.C.
Pin-Jen Taoyuan 324
TW

34-2C-C4 (hex) Compal Broadband Networks, Inc.
342CC4 (base 16) Compal Broadband Networks, Inc.
13F., No.1, Taiyuan 1st St.
Zhubei City Hsinchu County 30265
TW

14-C6-97 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
14C697 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

7C-03-AB (hex) Xiaomi Communications Co Ltd
7C03AB (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

DC-16-B2 (hex) HUAWEI TECHNOLOGIES CO.,LTD
DC16B2 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

24-FB-65 (hex) HUAWEI TECHNOLOGIES CO.,LTD
24FB65 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2
Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

0C-B5-27 (hex) HUAWEI TECHNOLOGIES CO.,LTD
0CB527 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

14-E9-B2 (hex) Fiberhome Telecommunication Technologies Co.,LTD
14E9B2 (base 16) Fiberhome Telecommunication Technologies Co.,LTD

No.5 DongXin Road
Wuhan Hubei 430074
CN

18-AC-9E (hex) ITEL MOBILE LIMITED
18AC9E (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

EC-84-B4 (hex) CIG SHANGHAI CO LTD
EC84B4 (base 16) CIG SHANGHAI CO LTD
5th Floor, Building 8 No 2388 Chenhang Road
SHANGHAI 201114
CN

C8-54-4B (hex) Zyxel Communications Corporation
C8544B (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu
Taiwan 300
TW

4C-11-59 (hex) Vision Information & Communications
4C1159 (base 16) Vision Information & Communications
151, Ulseong-gil
Pyeongtaek-si Gyeonggi-do 17823
KR

50-DC-FC (hex) ECOCOM
50DCFC (base 16) ECOCOM
15ST,Block A,Fortune Plaza, No.7002 ShenNan Avenue, Futian District
Shenzhen Guangdong 518040
CN

70-0B-01 (hex) Sagemcom Broadband SAS
700B01 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

5C-26-23 (hex) WaveLynx Technologies Corporation
5C2623 (base 16) WaveLynx Technologies Corporation
100 Technology Drive, Building B, Ste 150
Broomfield CO 80021
US

30-38-55 (hex) Nokia Corporation

303855 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu Ou 90590
FI

00-90-93 (hex) EIZO Corporation
009093 (base 16) EIZO Corporation
153 Shimokashiwano
Hakusan Ishikawa 924-8856
JP

F0-9F-FC
(hex) SHARP Corporation
F09FFC (base 16) SHARP Corporation
1 Takumi-cho, Sakai-ku
Sakai City Osaka 590-8522
JP

00-D0-7B (hex) COMCAM INTERNATIONAL INC
00D07B (base 16) COMCAM INTERNATIONAL INC
1140 McDermott Drive Suite 200
WEST CHESTER PA 19380
US

78-52-4A (hex) Optonic GmbH
78524A (base 16) Optonic GmbH
Zollhallenstr. 11
Freiburg 79106
DE

C4-6E-7B (hex) SHENZHEN RF-LINK TECHNOLOGY CO.,LTD.
C46E7B (base 16) SHENZHEN RF-LINK TECHNOLOGY CO.,LTD.
Bldg56A,6/F,Baotian Rd3,Xixiang Town,Baoan District,
Shenzhen Guangdong 518000
CN

00-B6-70 (hex) Cisco Systems, Inc
00B670 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

AC-64-17 (hex) Siemens AG
AC6417 (base 16) Siemens AG
Werner-von-Siemens Strasse 50
Amberg 92224
DE

34-79-16 (hex) HUAWEI TECHNOLOGIES CO.,LTD
347916 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road,
Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C0-48-FB (hex) Shenzhen JingHanDa Electronics Co.Ltd
C048FB (base 16) Shenzhen JingHanDa Electronics Co.Ltd
5th Floor,No 4 ,Road 1,ShangXue Technology industrial Park,LongGang district,ShenZhen,GuangDong,China
ShenZhen GuangDong 518129
CN

20-E8-82 (hex) zte corporation
20E882 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

00-B5-D0 (hex) Samsung Electronics Co.,Ltd
00B5D0 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

14-96-E5 (hex) Samsung Electronics Co.,Ltd
1496E5 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D0-7F-A0 (hex) Samsung Electronics Co.,Ltd
D07FA0 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-04-9F (hex) Freescale Semiconductor
00049F
(base 16) Freescale Semiconductor
2100 East Elliot
Tempe AZ 85284
US

0C-B5-DE (hex) Alcatel Lucent
0CB5DE (base 16) Alcatel Lucent
Via Energy Park, 14
Vimercate MB 20871

IT

00-0B-3B (hex) devolo AG
000B3B (base 16) devolo AG
Charlottenburger Allee 67
Aachen NRW 52068
DE

24-05-88 (hex) Google, Inc.
240588 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

0C-1C-57 (hex) Texas Instruments
0C1C57 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

80-6F-B0 (hex) Texas Instruments
806FB0 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

88-3F-99 (hex) Siemens AG
883F99 (base 16) Siemens AG
Werner-von-Siemens-Str. 48
Amberg 92224
DE

70-5A-B6 (hex) COMPAL INFORMATION (KUNSHAN) CO., LTD.
705AB6 (base 16) COMPAL INFORMATION (KUNSHAN) CO., LTD.
NO. 15, THE 3RD
Street KUNSHAN EXPORT PROCESSING ZONE
KUNSHAN SUZHOU 215300
CN

20-1A-06 (hex) COMPAL INFORMATION (KUNSHAN) CO., LTD.
201A06 (base 16) COMPAL INFORMATION (KUNSHAN) CO., LTD.
NO. 15, THE 3RD Street KUNSHAN EXPORT PROCESSING ZONE
KUNSHAN SUZHOU 215300
CN

F8-A9-63 (hex) COMPAL INFORMATION (KUNSHAN) CO., LTD.
F8A963 (base 16) COMPAL INFORMATION (KUNSHAN) CO., LTD.
NO. 15, THE 3RD Street KUNSHAN EXPORT PROCESSING ZONE

KUNSHAN SUZHOU 215300
CN

00-9D-6B (hex) Murata Manufacturing Co., Ltd.
009D6B (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

DC-0E-A1 (hex) COMPAL INFORMATION (KUNSHAN) CO., LTD.
DC0EA1 (base 16) COMPAL INFORMATION (KUNSHAN) CO., LTD.
No.25, Third Avenue, A Zone, Kunshan Comprehensive Free Trade Zone,, Jiangsu,
KUNSHAN SUZHOU 215300
CN

B8-70-F4 (hex) COMPAL INFORMATION (KUNSHAN) CO., LTD.
B870F4 (base 16) COMPAL
INFORMATION (KUNSHAN) CO., LTD.
NO. 25, THE 3RD Street KUNSHAN EXPORT PROCESSING ZONE
KUNSHAN SUZHOU 215300
CN

1C-39-47 (hex) COMPAL INFORMATION (KUNSHAN) CO., LTD.
1C3947 (base 16) COMPAL INFORMATION (KUNSHAN) CO., LTD.
NO. 15, THE 3RD Street KUNSHAN EXPORT PROCESSING ZONE
KUNSHAN SUZHOU 215300
CN

34-27-92 (hex) FREEBOX SAS
342792 (base 16) FREEBOX SAS
16 rue de la Ville l'Eveque
PARIS IdF 75008
FR

7C-6D-A6 (hex) Superwave Group LLC
7C6DA6 (base 16) Superwave Group LLC
poselok Krasnaya Zarya, dom 15
Vsevolozhskiy raiyon Leningradskaya oblast 193149
RU

00-06-EC (hex) Harris Corporation
0006EC (base 16) Harris Corporation
1025 West NASA Blvd
Melbourne FL 32919
US

40-A1-08 (hex) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
40A108 (base 16) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.

No.19, Gaoxin 4th Road, Wuhan East Lake High-tech
Zone, Wuhan
Wuhan Hubei 430000
CN

D0-16-B4 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D016B4 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-BB-60 (hex) Intel Corporate
00BB60 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

34-66-EA (hex) VERTU INTERNATIONAL CORPORATION LIMITED
3466EA (base 16) VERTU INTERNATIONAL CORPORATION LIMITED
25 St Thomas Street, Winchester, Hampshire, United Kingdom
Winchester Hampshire SO23 9HJ
GB

28-38-5C (hex) FLEXTRONICS
28385C (base 16) FLEXTRONICS
Carretera Base Aerea 5850 int 4
Zapopan Jalisco 45136
MX

EC-6F-0B (hex) FADU, Inc.
EC6F0B (base 16) FADU, Inc.
4th FL, 8, Bongeunsa-ro 68-gil, Gangnam-gu
Seoul 06153
KR

38-8B-59 (hex) Google, Inc.
388B59 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

88-01-18
(hex) BLT Co
880118 (base 16) BLT Co
Dongan-gu Burim-ro 170beon-gil 44
Anyangsi Kyunggido 14055
KR

A4-26-18 (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
A42618 (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

34-E1-2D (hex) Intel Corporate
34E12D (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

20-A8-B9 (hex) SIEMENS AG
20A8B9 (base 16) SIEMENS AG
Oestliche Rheinbrueckenstrasse 50
Karlsruhe Baden Wuerttemberg 76187
DE

F0-F0-8F (hex) Nextek Solutions Pte Ltd
F0F08F (base 16) Nextek Solutions Pte Ltd
105 Cecil Street, #06-01 The Octagon
Singapore Singapore 069534
SG

8C-B0-E9 (hex) Samsung Electronics.,LTD
8CB0E9 (base 16) Samsung Electronics.,LTD
129, Samsung-ro, Yeongtong-gu
Suwon Gyeonggi-Do 443-742
KR

A4-61-91 (hex) NamJunSa
A46191
(base 16) NamJunSa
12, Gimhae-daero 2635 beon-gil
Gimhae-si Gyeongsangnam-do 50932
KR

84-A2-4D (hex) Birds Eye Systems Private Limited
84A24D (base 16) Birds Eye Systems Private Limited
123-126, B Wing First Floor, Chintanmani Plaza, Mohan Studio Compound, Andheri-Kurla Road, Andheri East
Mumbai Maharashtra 400099
IN

D0-EF-C1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D0EFC1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-18-B5 (hex) Magna Carta
0018B5 (base 16) Magna Carta
Naritaweg 126
Amsterdam Noord Holland 1043 CA
NL

D8-7E-B1 (hex) x.o.ware, inc.
D87EB1 (base 16) x.o.ware, inc.
114 E. Haley St., Ste N
Santa Barbara California 93101
US

00-17-B6 (hex) Aquantia Corporation
0017B6 (base 16) Aquantia Corporation
700 Tasman Drive
Milpitas CA 95035
US

10-59-17 (hex) Tonal
105917 (base 16) Tonal
1074
Folsom St
San Francisco 94103
US

74-59-33 (hex) Danal Entertainment
745933 (base 16) Danal Entertainment
9th Fl. Bundang First Tower, 55 Bundang-ro, Bundang-gu
Seongnam-si Gyeonggi-do 13591
KR

EC-58-EA (hex) Ruckus Wireless
EC58EA (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

48-57-02 (hex) HUAWEI TECHNOLOGIES CO.,LTD
485702 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D4-52-51 (hex) IBT Ingenieurbureau Broennimann Thun
D45251 (base 16) IBT Ingenieurbureau Broennimann Thun
Kasernenstrasse 5
Thun Bern 3600

CH

7C-6B-9C (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
7C6B9C (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

70-89-CC (hex) China Mobile Group Device Co.,Ltd.
7089CC (base
16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

50-61-BF (hex) Cisco Systems, Inc
5061BF (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-09-DF (hex) Vestel Elektronik San ve Tic. A.S.
0009DF (base 16) Vestel Elektronik San ve Tic. A.S.
Organize san
Manisa Turket 45030
TR

64-4F-42 (hex) JETTER CO., Ltd.
644F42 (base 16) JETTER CO., Ltd.
265-40 Emukaecho Tanomoto
Sasebo-shi Nagasaki 859-6134
JP

DC-AF-68 (hex) WEIFANG GOERTEK ELECTRONICS CO.,LTD
DCAF68 (base 16) WEIFANG GOERTEK ELECTRONICS CO.,LTD
Gaoxin 2 Road, Free Trade Zone,Weifang,Shandong,261205,P.R.China
Weifang Shandong 261205
CN

CC-7B-61 (hex) NIKKISO CO., LTD.
CC7B61 (base 16) NIKKISO CO., LTD.
Yebisu Garden Place Tower 22nd Floor, 20-3, Ebisu 4-Chome
Shibuya-ku Tokyo 150-6022
JP

9C-71-3A (hex) HUAWEI TECHNOLOGIES CO.,LTD
9C713A

(base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

2C-97-B1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
2C97B1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

24-EC-51 (hex) ADF Technologies Sdn Bhd
24EC51 (base 16) ADF Technologies Sdn Bhd
Plot 88F, Lintang Bayan Lepas 10, Bayan Lepas Industrial Park Phase IV
Bayan Lepas Pulau Pinang 11900
MY

88-2D-53 (hex) Baidu Online Network Technology (Beijing) Co., Ltd.
882D53 (base 16) Baidu Online Network Technology (Beijing) Co., Ltd.
Baidu Campus, No.10 Shangdi 10th Street, Haidian District Beijing 100085 CN
Beijing 100085
CN

00-D0-B5 (hex) IPricot formerly DotCom
00D0B5 (base 16) IPricot formerly DotCom
10-12, avenue de Verdun
La-Garenne-Colombes F-92250
FR

2C-5B-E1 (hex) Centripetal Networks,
Inc
2C5BE1 (base 16) Centripetal Networks, Inc
2251 Corporate Park Drive, Suite 150
Herndon VA 201715806
US

DC-EF-CA (hex) Murata Manufacturing Co., Ltd.
DCEFCA (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

00-BC-60 (hex) Cisco Systems, Inc
00BC60 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

70-0F-6A (hex) Cisco Systems, Inc
700F6A (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

74-6B-AB (hex) GUANGDONG ENOK COMMUNICATION CO., LTD
746BAB (base 16) GUANGDONG ENOK COMMUNICATION CO., LTD
NO.139 Lixiang road, Songmushan Dalang Town
Dongguan, Guangdong 523770
CN

0C-B6-D2 (hex) D-Link International
0CB6D2 (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

78-29-ED (hex) ASKEY COMPUTER CORP
7829ED
(base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585
TW

B8-B7-F1 (hex) Wistron Neweb Corporation
B8B7F1 (base 16) Wistron Neweb Corporation
No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu R.O.C. 308
TW

80-50-F6 (hex) ITEL MOBILE LIMITED
8050F6 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

A8-CA-B9 (hex) SAMSUNG ELECTRO MECHANICS CO., LTD.
A8CAB9 (base 16) SAMSUNG ELECTRO MECHANICS CO., LTD.
314, Maetan3-Dong, Yeongtong-Gu
SUWON KYUNGGI-DO 443-743
KR

8C-F2-28 (hex) MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
8CF228 (base 16) MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
Mid-Fourth Flr.,Building 28,Cui Xi Fourth Road,Ke Yuan West,Nanshan
Shenzhen Guangdong 518057
CN

10-8E-E0 (hex) Samsung Electronics Co.,Ltd
108EE0 (base 16) Samsung Electronics
Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

FC-A6-21 (hex) Samsung Electronics Co.,Ltd
FCA621 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F8-C3-9E (hex) HUAWEI TECHNOLOGIES CO.,LTD
F8C39E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

94-4A-0C (hex) Sercomm Corporation.
944A0C (base 16) Sercomm Corporation.
3F,No.81,Yu-Yih Rd.,Chu-Nan Chen
Miao-Lih Hsuan 115
TW

00-0F-A2 (hex) 2xWireless
000FA2 (base 16) 2xWireless
1065 Maurader st
Chico CA 95973
US

00-0B-B2 (hex) SMALLBIG TECHNOLOGY
000BB2 (base 16) SMALLBIG TECHNOLOGY
3F Dongsung Bldg. 720-9 Yoksamdong
Gangnamgu Seoul 135-080
KR

F4-03-2F (hex) Reduxio Systems
F4032F (base 16) Reduxio Systems
2 Granit St
Petach Tikvah 4951446
IL

7C-41-A2 (hex) Nokia
7C41A2
(base 16) Nokia
600 March Road

Kanata Ontario K2K 2E6
CA

BC-32-5F (hex) Zhejiang Dahua Technology Co., Ltd.
BC325F (base 16) Zhejiang Dahua Technology Co., Ltd.
No.1199,Waterfront Road
Hangzhou Zhejiang 310053
CN

50-5B-C2 (hex) Liteon Technology Corporation
505BC2 (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

6C-21-A2 (hex) AMPAK Technology, Inc.
6C21A2 (base 16) AMPAK Technology, Inc.
No.1,Jen Ai Road Hsinchu Industrial Park, Hukou
Hsinchu Taiwan ROC. 30352
TW

9C-2F-73 (hex) Universal Tiancheng Technology (Beijing) Co., Ltd.
9C2F73 (base 16) Universal Tiancheng Technology (Beijing) Co., Ltd.
13 floor,Changxin Building,Anding Road No.39,Chaoyang District,Beijing
Beijing Beijing 100029
CN

E8-D0-99 (hex) Fiberhome Telecommunication Technologies Co.,LTD
E8D099 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5
DongXin Road
Wuhan Hubei 430074
CN

00-30-5E (hex) Abelko Innovation
00305E (base 16) Abelko Innovation
Box 808
Lulea 97125
SE

FC-6B-F0 (hex) TOPWELL INTERNATIONAL HOLDINDS LIMITED
FC6BF0 (base 16) TOPWELL INTERNATIONAL HOLDINDS LIMITED
Room 1301-5,Buliding China Youshe,NO.6013,ShenNan Road,CheGong Temple,FuTian District,ShenZhen,GuangDong province,China
SHENZHEN GUANGDONG 518000
CN

00-14-77 (hex) Trilliant

001477 (base 16) Trilliant
950 Cowie st.
Granby Quebec J2J 1P2
CA

00-07-9B (hex) Aurora Networks
00079B (base 16) Aurora Networks
2803 Mission College Blvd.
Santa Clara CA 95054
US

C8-86-29 (hex) Shenzhen Duubee Intelligent Technologies Co.,LTD.
C88629 (base 16) Shenzhen Duubee Intelligent Technologies Co.,LTD.
9F, Block B, Unicenter, Xin'an Sub district, Bao'an District
Shenzhen GuangDong 518000
CN

54-B2-03 (hex) PEGATRON CORPORATION
54B203 (base 16) PEGATRON
CORPORATION
5F No. 76, Ligong St., Beitou District
Taipei City Taiwan 112
TW

38-68-DD (hex) INVENTEC CORPORATION
3868DD (base 16) INVENTEC CORPORATION
NO.88, DAZHI RD.
TAOYUAN 33068
TW

3C-6A-A7 (hex) Intel Corporate
3C6AA7 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

A0-28-ED (hex) HMD Global Oy
A028ED (base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo 02600
FI

AC-54-74 (hex) China Mobile IOT Company Limited
AC5474 (base 16) China Mobile IOT Company Limited
NO.8 Yu Ma Road, NanAn Area
Chongqing Chongqing 401336
CN

20-39-56 (hex) HMD Global Oy
203956 (base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo 02600
FI

78-AF-E4 (hex) Comau S.p.A
78AFE4 (base 16) Comau S.p.A
via Rivalta 30
Grugliasco (TO) 10095
IT

90-A1-37 (hex) Beijing Splendidtel Communication Technology Co,. Ltd
90A137 (base 16) Beijing
Splendidtel Communication Technology Co,. Ltd
4 Floor,Taixing Tower,No.11 Huayuan East Road. Haidian District
Beijing Beijing 100191
CN

80-02-9C (hex) Gemtek Technology Co., Ltd.
80029C (base 16) Gemtek Technology Co., Ltd.
No.15-1 Zhonghua Road
Hukou Hsinchu 30352
TW

D8-32-E3 (hex) Xiaomi Communications Co Ltd
D832E3 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

94-87-E0 (hex) Xiaomi Communications Co Ltd
9487E0 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

38-AF-29 (hex) Zhejiang Dahua Technology Co., Ltd.
38AF29 (base 16) Zhejiang Dahua Technology Co., Ltd.
No.1199,Waterfront Road
Hangzhou Zhejiang 310053
CN

14-16-9E (hex) Wingtech Group (HongKongLimited
14169E (base 16) Wingtech
Group (HongKongLimited
FLAT/RM 1903 19/F PODIUM PLAZA 5HANOI ROAD TSIM SHA TSUI
Hong Kong Hong Kong 999077

HK

10-7B-A4 (hex) Olive & Dove Co.,Ltd.
107BA4 (base 16) Olive & Dove Co.,Ltd.
803 Polaris bldg., 381, Seongnam-daero, Bundang-gu
Gyeonggi-do Seongnam-si 13555
KR

D0-C5-D3 (hex) AzureWave Technology Inc.
D0C5D3 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

8C-1C-DA (hex) IEEE Registration Authority
8C1CDA (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

88-3F-4A (hex) Texas Instruments
883F4A (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

30-0A-C5 (hex) Ruio telecommunication technologies Co., Limited
300AC5 (base 16) Ruio telecommunication technologies Co., Limited
Room 2501, Broadegate Software Building, No,1003 Keyuan Road,
Shenzhen guangdong 518000
CN

00-E0-65
(hex) OPTICAL ACCESS INTERNATIONAL
00E065 (base 16) OPTICAL ACCESS INTERNATIONAL
500 WEST CUMMINGS PL. #3400
WOBURN MA 01801
US

44-66-FC (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
4466FC (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

D8-8A-3B (hex) UNIT-EM
D88A3B (base 16) UNIT-EM
167 Merchants Street

Valletta VLT 1174
MT

EC-5A-86 (hex) Yulong Computer Telecommunication Scientific (Shenzhen) Co.,Ltd
EC5A86 (base 16) Yulong Computer Telecommunication Scientific (Shenzhen) Co.,Ltd
Road NO2, West of Industrial Park,North of Science & Technology Park
Dongguan Guangdong 518057
CN

C4-BA-A3 (hex) Beijing Winicssec Technologies Co., Ltd.
C4BAA3 (base 16) Beijing Winicssec Technologies Co., Ltd.
F block 9th floor 907 of Jiahua Building, No.9 Shangdi 3rd Street
Haidian District Beijing 100085
CN

CC-C2-E0
(hex) Raisecom Technology CO., LTD
CCC2E0 (base 16) Raisecom Technology CO., LTD
No. 11, East Area, No. 10 Block, East Xibeiwang Road
Beijing 100094
CN

14-09-DC (hex) HUAWEI TECHNOLOGIES CO.,LTD
1409DC (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

38-BA-F8 (hex) Intel Corporate
38BAF8 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-07-A8 (hex) Haier Group Technologies Ltd
0007A8 (base 16) Haier Group Technologies Ltd
No. 1 Haier Road, Hi-tech Zone
00000 00000
CN

50-A0-09 (hex) Xiaomi Communications Co Ltd
50A009 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

9C-FE-A1 (hex) Fiberhome Telecommunication Technologies Co.,LTD
9CFEA1 (base 16) Fiberhome Telecommunication Technologies

Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

88-96-4E (hex) ARRIS Group, Inc.
88964E (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

C0-EE-B5 (hex) Enice Network.
C0EEB5 (base 16) Enice Network.
NO.30, Shuige Rd, JiangNing Economic Development Zone, Nanjing
Nanjing 211106
CN

60-DE-F3 (hex) HUAWEI TECHNOLOGIES CO.,LTD
60DEF3 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-40-98 (hex) DRESSLER GMBH & CO.
004098 (base 16) DRESSLER GMBH & CO.
KACKERTSTRASSE 10

DE

00-1D-FA (hex) Fujian LANDI Commercial Equipment Co.,Ltd
001DFA (base 16) Fujian LANDI Commercial Equipment Co.,Ltd
Building 17,the 1st Section ,Fuzhou Software Park
No.89 Software Road Fuzhou ,Fujian 350003
CN

98-14-D2 (hex) Avonic
9814D2 (base 16) Avonic
Distributieweg 60
Delfgauw
2645EJ
NL

78-F9-B4 (hex) Nokia Solutions and Networks GmbH & Co. KG
78F9B4 (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541
DE

D0-76-E7 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
D076E7 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

9C-A6-15 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
9CA615 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

E4-4E-76 (hex) CHAMPIONTECH ENTERPRISE (SHENZHEN) INC
E44E76 (base 16) CHAMPIONTECH ENTERPRISE (SHENZHEN) INC
Against Office of Dong-Zhou Residential Committee Guang Ming
Shenzhen 518000
CN

08-F6-9C (hex) Apple, Inc.
08F69C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino
CA 95014
US

04-FA-83 (hex) Qingdao Haier Technology Co.,Ltd
04FA83 (base 16) Qingdao Haier Technology Co.,Ltd
Building A01,Haier Information Park, No.1 Haier Road,
Qingdao Shandong 266101
CN

50-A6-7F (hex) Apple, Inc.
50A67F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

20-16-B9 (hex) Intel Corporate
2016B9 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-16-5C (hex) Trackflow Ltd.
00165C (base 16) Trackflow Ltd.
167-169 Kensington High Street
London England W86SH
GB

14-20-5E (hex) Apple, Inc.
14205E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B8-41-A4 (hex) Apple, Inc.
B841A4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

9C-E6-5E (hex) Apple, Inc.
9CE65E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C4-98-80 (hex) Apple,
Inc.
C49880 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E0-33-8E (hex) Apple, Inc.
E0338E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D4-61-DA (hex) Apple, Inc.
D461DA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-18-98 (hex) Apple, Inc.
F01898 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

88-19-08 (hex) Apple, Inc.
881908 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

5C-09-47 (hex) Apple, Inc.
5C0947 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

64-1C-AE (hex) Samsung Electronics Co.,Ltd
641CAE (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

F8-E4-4E (hex) MCOT INC.
F8E44E (base 16) MCOT INC.
Yogohigashi 1-5-12
Matsuyama Ehime 790-0044
JP

40-CD-7A (hex) Qingdao Hisense
Communications Co.,Ltd.
40CD7A (base 16) Qingdao Hisense Communications Co.,Ltd.
Qianwangang Road 218
Qingdao Shandong 266510
CN

94-99-90 (hex) VTC Telecommunications
949990 (base 16) VTC Telecommunications
750 (3rd Floor) Dien Bien Phu, District 10
Ho Chi Minh Ho Chi Minh 70000
VN

F4-BC-97 (hex) Shenzhen Crave Communication Co., LTD
F4BC97 (base 16) Shenzhen Crave Communication Co., LTD
F3,8Building, DongFangMing IndustryZone, No.83 DabaoRD., 33 District BaoAn
Shenzhen 518000
CN

28-FE-DE (hex) COMESTA, Inc.
28FEDE (base 16) COMESTA, Inc.
Techno1-ro 61-7, Yuseong-gu,
Daejeon 34014
KR

14-4E-34 (hex) Remote Solution
144E34 (base 16) Remote Solution
92, Chogokri, Nammyun

Kimcheon city Kyungbuk 740-871
KR

90-79-10 (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
907910 (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan
Lepas Penang 11900
MY

00-3D-E8 (hex) LG Electronics (Mobile Communications)
003DE8 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

68-FE-DA (hex) Fiberhome Telecommunication Technologies Co.,LTD
68FEDA (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

DC-4E-F4 (hex) Shenzhen MTN Electronics CO., Ltd
DC4EF4 (base 16) Shenzhen MTN Electronics CO., Ltd
MTN Industrial Park, No. 5, 9 South Futai Road, Pingxi Community, Pingdi Street, Longgang District
Shenzhen Guangdong 518117
CN

F0-81-73 (hex) Amazon Technologies Inc.
F08173 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno 89507
US

00-50-8B (hex) Hewlett Packard
00508B (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

2C-D9-74 (hex) Hui Zhou Gaoshengda Technology Co.,LTD
2CD974
(base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.75,Zhongkai High-Tech Development District,Huizhou
Hui Zhou Guangdong 516006
CN

D4-F7-86 (hex) Fiberhome Telecommunication Technologies Co.,LTD

D4F786 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

94-B8-6D (hex) Intel Corporate
94B86D (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

14-6B-9C (hex) SHENZHEN BILIAN ELECTRONIC CO.LTD
146B9C (base 16) SHENZHEN BILIAN ELECTRONIC CO.LTD
NO.268 Fuqian Rd, Jutang community, Guanlan Town, Longhua New district
shenzhen guangdong 518000
CN

94-8D-EF (hex) Oetiker Schweiz AG
948DEF (base 16) Oetiker Schweiz AG
Spätzstrasse 11
Horgen 8810
CH

24-0A-63 (hex) ARRIS Group, Inc.
240A63 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

F8-8B-37 (hex) ARRIS Group, Inc.
F88B37
(base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

20-67-7C (hex) Hewlett Packard Enterprise
20677C (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

88-17-A3 (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
8817A3 (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

88-A9-A7 (hex) IEEE Registration Authority
88A9A7 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

34-03-DE (hex) Texas Instruments
3403DE (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

34-D7-12 (hex) Smartisan Digital Co., Ltd
34D712 (base 16) Smartisan Digital Co., Ltd
4F, China Digital Kingdom, No.1 Wangjing North Road, Chaoyang District
Beijing Beijing 100012
CN

A0-66-10 (hex) FUJITSU LIMITED
A06610 (base 16) FUJITSU LIMITED
403,
Kosugi-cho 1-chome, Nakahara-ku
Kawasaki Kanagawa 211-0063
JP

E0-E6-2E (hex) TCT mobile ltd
E0E62E (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

44-FF-BA (hex) zte corporation
44FFBA (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

50-14-79 (hex) iRobot Corporation
501479 (base 16) iRobot Corporation
8 Crosby Drive
Bedford MA 01730
US

E4-2D-7B (hex) China Mobile IOT Company Limited
E42D7B (base 16) China Mobile IOT Company Limited
NO.8 Yu Ma Road, NanAn Area
Chongqing Chongqing 401336
CN

38-78-62 (hex) Sony Corporation
387862 (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

EC-89-14 (hex) HUAWEI TECHNOLOGIES CO.,LTD
EC8914 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake
Technology Park
Dongguan 523808
CN

B8-94-36 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B89436 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

60-84-BD (hex) BUFFALO.INC
6084BD (base 16) BUFFALO.INC
AKAMONDORI Bld.,30-20,Ohsu 3-chome,Naka-ku
Nagoya Aichi Pref. 460-8315
JP

34-7E-CA (hex) NEXTWILL
347ECA (base 16) NEXTWILL
JJ-Building, 20, Deongmyeong-ro 71beon-gil1, Yuseong-gu
Daejeon 34155
KR

B4-2E-F8 (hex) Eline Technology co.Ltd
B42EF8 (base 16) Eline Technology co.Ltd
kangcheng Road, Pharmaceutical Industrical Park, Yuanzhou District
Yichun Jiangxi 336000
CN

A4-D4-B2 (hex) Shenzhen MeiG Smart Technology Co.,Ltd
A4D4B2 (base 16) Shenzhen MeiG Smart Technology Co.,Ltd
#88 Qinjiang Road, Xuhui District
Shanghai 200233
CN

8C-F7-73 (hex) Nokia
8CF773 (base 16) Nokia
600 March Road
Kanata

Ontario K2K 2E6
CA

DC-DD-24 (hex) Energica Motor Company SpA
DCDD24 (base 16) Energica Motor Company SpA
Via Cesare della Chiesa, 150
MODENA (MO) Mo 41126
IT

64-1C-B0 (hex) Samsung Electronics Co.,Ltd
641CB0 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

90-3A-72 (hex) Ruckus Wireless
903A72 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

28-02-D8 (hex) Samsung Electronics Co.,Ltd
2802D8 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

DC-E5-33 (hex) IEEE Registration Authority
DCE533 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

D8-44-5C (hex) DEV Tecnologia Ind Com Man Eq LTDA
D8445C (base 16) DEV Tecnologia Ind Com Man Eq LTDA
Av Prof Lineu Prestes 2242 SL 23
Sao Paulo SP 05508000
BR

7C-39-53 (hex) zte corporation
7C3953
(base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

38-E1-AA (hex) zte corporation
38E1AA (base 16) zte corporation

12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

48-C7-96 (hex) Samsung Electronics Co.,Ltd
48C796 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F4-C2-48 (hex) Samsung Electronics Co.,Ltd
F4C248 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F4-71-90 (hex) Samsung Electronics Co.,Ltd
F47190 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

8C-59-73 (hex) Zyxel Communications Corporation
8C5973 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

24-18-1D (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
24181D
(base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T. Bangsamak SEMTHAI, WELLGROW INDUSTRIAL ESTATE
Bangpakong Chachoengsao 24180
TH

F8-90-66 (hex) Nain Inc.
F89066 (base 16) Nain Inc.
Aoyamadai building 902, Shibuya 2-9-10, Shibuya-ku
Tokyo 150-0002
JP

70-06-AC (hex) Eastcompeace Technology Co., Ltd
7006AC (base 16) Eastcompeace Technology Co., Ltd
Number 8 Pinggong Zhong Road,Nanping S&T Industry Community,Zhuhai,Guangdong,519060 China
Zhuhai Guangdong 519060
CN

50-95-51 (hex) ARRIS Group, Inc.

509551 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

80-41-26 (hex) HUAWEI TECHNOLOGIES CO.,LTD
804126 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

AC-F9-70 (hex) HUAWEI TECHNOLOGIES CO.,LTD
ACF970 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng
Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

58-D7-59 (hex) HUAWEI TECHNOLOGIES CO.,LTD
58D759 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

4C-EF-C0 (hex) Amazon Technologies Inc.
4CEFC0 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

C4-64-E3 (hex) Texas Instruments
C464E3 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

CC-3B-58 (hex) Curiouser Products Inc
CC3B58 (base 16) Curiouser Products Inc
712 Broadway #4
New York NY 10003
US

00-08-89 (hex) Dish Technologies Corp
000889 (base 16) Dish Technologies Corp
94 Inverness Terrace E
Englewood CO 80112
US

04-C9-D9 (hex) Dish Technologies Corp
04C9D9 (base 16) Dish Technologies Corp
94 Inverness Terrace E
Englewood CO 80112
US

70-55-F8 (hex) Cerebras Systems Inc
7055F8
(base 16) Cerebras Systems Inc
175 S San Antonio Rd #100
Los Altos CA 94022
US

C4-FF-BC (hex) IEEE Registration Authority
C4FFBC (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

28-3B-82 (hex) D-Link International
283B82 (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

D4-90-9C (hex) Apple, Inc.
D4909C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E4-E0-A6 (hex) Apple, Inc.
E4E0A6 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

5C-00-38 (hex) Viasat Group S.p.A.
5C0038 (base 16) Viasat Group S.p.A.
Via Aosta 23
Venaria Reale Torino 10078
IT

F0-B5-B7 (hex) Disruptive Technologies Research AS
F0B5B7 (base 16) Disruptive Technologies Research AS
Ytrebygdsvegen 215
Blomsterdalen Hordaland 5258
NO

B4-DE-DF (hex) zte corporation
B4DEDF
(base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

6C-54-CD (hex) LAMPEX ELECTRONICS LIMITED
6C54CD (base 16) LAMPEX ELECTRONICS LIMITED
6-2/231/B, Kukatpally,
Hyderabad Telangana 500072
IN

94-29-0C (hex) Shenyang wisdom Foundation Technology Development Co., Ltd.
94290C (base 16) Shenyang wisdom Foundation Technology Development Co., Ltd.
No. 262 North Main Street, Huanggu District, the Yellow River
shenyang 110000
CN

9C-32-CE (hex) CANON INC.
9C32CE (base 16) CANON INC.
30-2 Shimomaruko 3-chome,
Ohta-ku Tokyo 146-8501
JP

34-41-5D (hex) Intel Corporate
34415D (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-50-91 (hex) NETACCESS, INC.
005091 (base 16) NETACCESS, INC.
18 KEEWAYDIN DRIVE
SALEM NH 03079
US

20-E0-9C (hex) Nokia
20E09C (base 16) Nokia
600
March Road
Kanata Ontario K2K 2E6
CA

2C-FD-A1 (hex) ASUSTek COMPUTER INC.
2CFDA1 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan

Taipei Taiwan 112
TW

14-44-4A (hex) Apollo Seiko Ltd.
14444A (base 16) Apollo Seiko Ltd.
2271-7 Jinba
Gotenba Shizuoka 412-0047
JP

3C-2C-99 (hex) Edgecore Networks Corporation
3C2C99 (base 16) Edgecore Networks Corporation
1 Creation RD 3.
Hsinchu 30077
TW

38-07-D4 (hex) Zeppelin Systems GmbH
3807D4 (base 16) Zeppelin Systems GmbH
Messenhäuser Str. 37-45
Rödermark Hessen 63322
DE

04-19-7F (hex) Grasphere Japan
04197F (base 16) Grasphere Japan
3-1-11 NNT build.
Tokyo 1030013
JP

10-CE-A9 (hex) Texas Instruments
10CEA9 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

80-2B-F9 (hex) Hon Hai Precision Ind. Co.,Ltd.
802BF9 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building
D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

54-B8-02 (hex) Samsung Electronics Co.,Ltd
54B802 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

58-04-54 (hex) ICOMM HK LIMITED
580454 (base 16) ICOMM HK LIMITED

SUITES 2302-6, 23/F GREAT EAGLE CTR 23 HARBOUR RD
WANCHAI NA
HK

C4-77-AF (hex) Advanced Digital Broadcast SA
C477AF (base 16) Advanced Digital Broadcast SA
Route de Crassier 21, B2
Eysins CH-1262
CH

80-5E-0C (hex) YEALINK(XIAMEN) NETWORK TECHNOLOGY CO.,LTD.
805E0C (base 16) YEALINK(XIAMEN) NETWORK TECHNOLOGY CO.,LTD.
309, 3th Floor, No.16, Yun Ding North Road, Huli District
xiamen Fujian 361015
CN

6C-49-C1 (hex) o2ones Co., Ltd.
6C49C1 (base 16) o2ones Co., Ltd.
503 Glory Tower, 3-10, Gumi-ro 9beon-gil, Bundang-gu
Seongnam-si Gyeonggi-do 13637
KR

70-EE-A3 (hex) Eoptolink Technology Inc.
Ltd,
70EEA3 (base 16) Eoptolink Technology Inc. Ltd,
No.127 West Wulian Street
Chengdu China/Sichuan 610213
CN

70-47-E9 (hex) vivo Mobile Communication Co., Ltd.
7047E9 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

5C-52-1E (hex) Nintendo Co.,Ltd
5C521E (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

6C-DD-30 (hex) Cisco Systems, Inc
6CDD30 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

6C-4E-86 (hex) Third Millennium Systems Ltd.

6C4E86 (base 16) Third Millennium Systems Ltd.
18/19 Torfaen Business Centre, Panteg Way
New Inn, Pontypool Torfaen NP4 0LS
GB

5C-86-C1 (hex) DONGGUAN SOLUM ELECTRONICS CO.,LTD
5C86C1 (base 16) DONGGUAN SOLUM ELECTRONICS CO.,LTD
NO.157,13 Coastal Way TPFTZ
TIANJIN 300461
CN

88-D0-39 (hex) Tonly
Technology Co. Ltd
88D039 (base 16) Tonly Technology Co. Ltd
Section 37, Zhongkai Hi-Tech Development Zone
Huizhou Guangdong 516006
CN

5C-81-A7 (hex) Network Devices Pty Ltd
5C81A7 (base 16) Network Devices Pty Ltd
16 Dickson Ave
Artarmon NSW 2064
AU

5C-0C-0E (hex) Guizhou Huaxintong Semiconductor Technology Co Ltd
5C0C0E (base 16) Guizhou Huaxintong Semiconductor Technology Co Ltd
Sitelin Park
Intersection between Jin ma Ave and Qianzhong Ave Gui An New Area, Guizhou Prov 550003
CN

68-3E-02 (hex) SIEMENS AG, Digital Factory, Motion Control System
683E02 (base 16) SIEMENS AG, Digital Factory, Motion Control System
Varey Road
Congleton Cheshire CW12 1PH
GB

50-3C-EA (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
503CEA (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

EC-81-93 (hex) Logitech, Inc
EC8193
(base 16) Logitech, Inc
4700 NW Camas Meadows Drive
Camas WA 98607
US

00-02-61 (hex) Tilgin AB
000261 (base 16) Tilgin AB
Finlandsgatan 40
kista 12345
SE

00-14-C3 (hex) Seagate Technology
0014C3 (base 16) Seagate Technology
M/S NW1F01
Longmont CO 80503
US

00-04-CF (hex) Seagate Technology
0004CF (base 16) Seagate Technology
M/S NW1F01
Longmont CO 80503
US

00-20-37 (hex) Seagate Technology
002037 (base 16) Seagate Technology
8001 E. BLOOMINGTON FWY
BLOOMINGTON MN 55420
US

00-E0-91 (hex) LG Electronics
00E091 (base 16) LG Electronics
16, Woomyeon-dong, Seocho-gu
Seoul 137-724
KR

38-43-7D (hex) Compal Broadband Networks, Inc.
38437D (base 16) Compal Broadband Networks, Inc.
13F., No.1, Taiyuan 1st St.
Zhubei City Hsinchu County 30265
TW

50-6F-98 (hex) Sehaj Synergy Technologies Private Limited
506F98 (base 16) Sehaj Synergy
Technologies Private Limited
E-112A, Kataria Colony, Ramanagar Extension, New Sanganer Road, Sodala, Jaipur-302019
Jaipur Rajasthan 302019
IN

4C-AE-1C (hex) SaiNXT Technologies LLP
4CAE1C (base 16) SaiNXT Technologies LLP
Shop No. 7, Sonawala Building, 1st Floor, Proctor Road, Grant Road (E)
Mumbai Maharashtra 400007

IN

44-91-60 (hex) Murata Manufacturing Co., Ltd.
449160 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

B4-F1-DA (hex) LG Electronics (Mobile Communications)
B4F1DA (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

C8-63-F1 (hex) Sony Interactive Entertainment Inc.
C863F1 (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

5C-77-76 (hex) TCT mobile ltd
5C7776 (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech
District
Hui Zhou Guang Dong 516006
CN

70-E5-6E (hex) Texas Instruments
70E56E (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

54-7D-CD (hex) Texas Instruments
547DCD (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

00-AE-CD (hex) Pensando Systems
00AECD (base 16) Pensando Systems
1730 Technology Drive, Suite 202
San Jose CA 95110
US

14-28-82 (hex) MIDICOM ELECTRONICS CO.LTD
142882 (base 16) MIDICOM ELECTRONICS CO.LTD
Bucheon Techno Park 303-404,345

Seokcheon-ro,Bucheon-si Gyeonggi-do 1501
KR

30-E4-8E (hex) Vodafone UK
30E48E (base 16) Vodafone UK
Vodafone House
Newbury Berkshire RG142FN
GB

84-50-9A (hex) Easy Soft TV Co., Ltd
84509A (base 16) Easy Soft TV Co., Ltd
#1613, Heungduk U-Tower, Heungduk Jung ang-ro 120
Yongin-si Gyeounggi-do 16950
KR

FC-9D-D8 (hex) Beijing TongTongYiLian Science and Technology Ltd.
FC9DD8
(base 16) Beijing TongTongYiLian Science and Technology Ltd.
Room 301,Zone 3,Building 9,No.8 Dongbeiwang West Road,Haidian District,Beijing
BEIJING BEIJING 100193
CN

DC-28-34 (hex) HAKKO Corporation
DC2834 (base 16) HAKKO Corporation
4-5, Shiokusa 2-chome, Naniwaku
Osaka Osaka 556-0024
JP

00-17-30 (hex) Automation Electronics
001730 (base 16) Automation Electronics
111 Big Horn Rd.
Casper Wy 82601
US

00-19-C2 (hex) Equustek Solutions, Inc.
0019C2 (base 16) Equustek Solutions, Inc.
#286 - 5489 Byrne Road,
Burnaby BC V5J 3J1
CA

80-00-0B (hex) Intel Corporate
80000B (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

DC-E1-AD (hex) Shenzhen Wintop Photoelectric Technology Co., Ltd
DCE1AD (base 16) Shenzhen Wintop Photoelectric Technology Co., Ltd

6th Floor, 1st Building, Zone 3, South Area, Zhongguan& Honghualing Industrial Zone, No. 1213, Liuxian Avenue, Taoyuan Street, Nanshan District, Shenzhen, China
Shenzhen Guangdong 518054
CN

78-DD-D9 (hex) Guangzhou Shiyuan Electronics Co., Ltd.
78DDD9 (base 16) Guangzhou Shiyuan Electronics Co., Ltd.
No.6, 4th Yunpu Road, Yunpu Industry District
Guangzhou Guangdong 510530
CN

B0-FC-36 (hex) CyberTAN Technology Inc.
B0FC36 (base 16) CyberTAN Technology Inc.
99 Park Ave III, Hsinchu Science Park
Hsinchu 308
TW

00-1D-F4 (hex) Magellan Technology Pty Limited
001DF4 (base 16) Magellan Technology Pty Limited
65 Johnston Street
Annandale NSW 2000
AU

F8-B7-E2 (hex) Cisco Systems, Inc
F8B7E2 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

F8-20-55 (hex) Green Information System
F82055 (base 16) Green Information System
#202(Shopping center), Woldong-ro 28, Buk-gu
Gwangju 61153
KR

74-E1-9A (hex) Fiberhome Telecommunication Technologies Co.,LTD
74E19A (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

00-1C-AE (hex) WiChorus, Inc.
001CAE (base 16) WiChorus, Inc.
3590 N 1st Street, Suite 300
San Jose CA 95134
US

EC-B0-E1 (hex) Ciena Corporation
ECB0E1 (base 16) Ciena Corporation
7035 Ridge Road
Hanover MD 21076
US

94-88-54 (hex) Texas Instruments
948854 (base 16) Texas Instruments
12500 TI Boulevard
Dallas TX 75243
US

00-1D-0D (hex) Sony Interactive Entertainment Inc.
001D0D (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

6C-05-D5 (hex) Ethertronics Inc
6C05D5 (base 16) Ethertronics Inc
5501 Oberlin Drive, Suite 100
SAN DIEGO CA 92121
US

00-00-97 (hex) Dell EMC
000097 (base 16) Dell EMC
176 South Street
Hopkinton MA 01748
US

8C-CF-09 (hex) Dell EMC
8CCF09 (base 16) Dell
EMC
228 South St
Hopkinton MA 01748
US

8C-83-9D (hex) SHENZHEN XINYUPENG ELECTRONIC TECHNOLOGY CO., LTD
8C839D (base 16) SHENZHEN XINYUPENG ELECTRONIC TECHNOLOGY CO., LTD
ROOM 1505,BIT INNOVATION BUILDING,SCIENCE AND TECHNOLOGY PARK,NANSHAN DISTRICT
Shenzhen 518057
CN

00-81-F9 (hex) Texas Instruments
0081F9 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

EC-B5-FA (hex) Philips Lighting BV
ECB5FA (base 16) Philips Lighting BV
High Tech Campus 45
Eindhoven Noord Brabant 5656 AE
NL

B0-C1-9E (hex) zte corporation
B0C19E (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

0C-37-47 (hex) zte corporation
0C3747 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

AC-A6-67 (hex) Electronic Systems Protection, Inc.
ACA667 (base
16) Electronic Systems Protection, Inc.
8001 Knightdale Blvd.
Knightdale NC 27545
US

44-CD-0E (hex) FLEXTRONICS MANUFACTURING(ZHUHAI)CO.,LTD.
44CD0E (base 16) FLEXTRONICS MANUFACTURING(ZHUHAI)CO.,LTD.
Xin Qing Science & Technology Industrial Park,Jin An Town,Doumen ,Zhuhai,Guangdong,PRC
Zhuhai Guangdong 519180
CN

E8-82-5B (hex) ARRIS Group, Inc.
E8825B (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1C-56 (hex) Pado Systems, Inc.
001C56 (base 16) Pado Systems, Inc.
#706 Loadland EZ Tower 153
SungNam Gyung gi-Do 463-810
KR

F0-6D-78 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
F06D78 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860

CN

70-99-1C (hex) Shenzhen Honesty Electronics Co.,Ltd
70991C (base 16) Shenzhen Honesty Electronics Co.,Ltd
5/F,Zone B,Chitat Industrial Park,West
Longping Road
Shenzhen City Longgang District, Guangdong 518172
CN

80-B0-3D (hex) Apple, Inc.
80B03D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E4-9A-DC (hex) Apple, Inc.
E49ADC (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

AC-E4-B5 (hex) Apple, Inc.
ACE4B5 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D0-D2-B0 (hex) Apple, Inc.
D0D2B0 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

70-7D-95 (hex) Shenzhen City LinwlanTechnology Co. Ltd.
707D95 (base 16) Shenzhen City LinwlanTechnology Co. Ltd.
106 village road , manhole street Baoan district .
Shenzhen Guangdong 518125
CN

18-CC-88 (hex) Hitachi Johnson Controls Air
18CC88 (base 16) Hitachi Johnson Controls Air
390 Number
Shimizu Village Village Shizuoka Prefecture 424-0926
JP

7C-DD-76 (hex) Suzhou Hanming Technologies Co.,
Ltd.
7CDD76 (base 16) Suzhou Hanming Technologies Co., Ltd.

Suite 407, No. 166, Ren Ai Road
Suzhou Jiangsu 215123
CN

24-68-80 (hex) Braveridge.co.,ltd.
246880 (base 16) Braveridge.co.,ltd.
3-27-2, Susenji
Nishi-ku, Fukuoka-shi Fukuoka 819-0373
JP

2C-43-1A (hex) Shenzhen YOUHUA Technology Co., Ltd
2C431A (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

70-70-8B (hex) Cisco Systems, Inc
70708B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

38-9F-5A (hex) C-Kur TV Inc.
389F5A (base 16) C-Kur TV Inc.
A-1902, 583, Yangcheon-ro, Gangseo-gu
Seoul 07547
KR

F0-BD-2E (hex) H+S Polatis Ltd
F0BD2E (base 16) H+S Polatis Ltd
332/2 Cambridge Science Park
Cambridge CB4 0WN
GB

74-6E-E4 (hex) Asia Vital Components Co.,Ltd.
746EE4
(base 16) Asia Vital Components Co.,Ltd.
Rm. 3, 7F., No.24, Wuquan 2nd Rd., Xinzhuang Dist.,
New Taipei Taiwan 24892
TW

28-AD-3E (hex) Shenzhen TONG BO WEI Technology CO.,LTD
28AD3E (base 16) Shenzhen TONG BO WEI Technology CO.,LTD
Longhua District, Dalang street Langkou community Huarong Road Peng Tengda Industrial Park 4 5 floor
SHENZHEN guangdong 518109
CN

D8-43-ED (hex) Suzuken

D843ED (base 16) Suzuken
8, Higashikatahamachi, Higashiku
Nagoya Aich 4610015
JP

00-40-E4 (hex) E-M TECHNOLOGY, INC.
0040E4 (base 16) E-M TECHNOLOGY, INC.
9245 SOUTHWEST NIMBUS AVE.
BEAVERTON OR 97005
US

98-4B-4A (hex) ARRIS Group, Inc.
984B4A (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

E0-84-F3 (hex) High Grade Controls Corporation
E084F3 (base 16) High Grade Controls Corporation
87 Magill Street
Sudbury Ontario P3Y1K6
CA

E8-DF-70 (hex) AVM
Audiovisuelles Marketing und Computersysteme GmbH
E8DF70 (base 16) AVM Audiovisuelles Marketing und Computersysteme GmbH
Alt-Moabit 95
Berlin Berlin 10559
DE

D0-59-95 (hex) Fiberhome Telecommunication Technologies Co.,LTD
D05995 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

A8-D3-C8 (hex) Topcon Electronics GmbH & Co. KG
A8D3C8 (base 16) Topcon Electronics GmbH & Co. KG
Industriestraße 7
Geisenheim 65366
DE

04-3A-0D (hex) SM Optics S.r.l.
043A0D (base 16) SM Optics S.r.l.
via Michelangelo Buonarroti, 1
Cologno Monzese Milan I-20093
IT

B8-D9-4D (hex) Sagemcom Broadband SAS
B8D94D (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

44-8F-17 (hex) Samsung Electronics Co., Ltd. ARTIK
448F17 (base 16) Samsung Electronics Co., Ltd. ARTIK
1-1, Samsungjeonja-ro
Hwaseong-si
Gyeonggi-do 18448
KR

00-FC-8B (hex) Amazon Technologies Inc.
00FC8B (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

00-76-B1 (hex) Somfy-Protect By Myfox SAS
0076B1 (base 16) Somfy-Protect By Myfox SAS
Regent Park II, Bât I, 2460 l'Occitane
Labège 31670
FR

80-C7-55 (hex) Panasonic Appliances Company
80C755 (base 16) Panasonic Appliances Company
2-3-1-2 Noji-higashi
Kusatsu City Shiga 525-8555
JP

4C-13-65 (hex) Emplus Technologies
4C1365 (base 16) Emplus Technologies
Bld B, 10F, No.209, Sec.1, Nangang Rd
Taipei 115
TW

38-A6-CE (hex) SKY UK LIMITED
38A6CE (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

BC-41-01 (hex) Shenzhen TINNO Mobile Technology Corp.
BC4101 (base 16) Shenzhen TINNO Mobile Technology Corp.
Building, No.33, Xiandong Rd, Xili
Nanshan District, Shenzhen PRC 518053
CN

18-78-D4 (hex) Verizon

1878D4 (base 16) Verizon
One Verizon Way
Basking Ridge NJ 07920
US

0C-62-A6 (hex) Hui Zhou Gaoshengda Technology Co.,LTD
0C62A6 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.75,Zhongkai High-Tech Development District,Huizhou
Hui Zhou Guangdong 516006
CN

18-13-2D (hex) zte corporation
18132D (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

74-D2-1D (hex) HUAWEI TECHNOLOGIES CO.,LTD
74D21D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

CC-F9-57 (hex) u-blox AG
CCF957 (base 16) u-blox AG
Zuercherstrasse 68
Thalwil 8800
CH

38-90-A5 (hex) Cisco Systems, Inc
3890A5 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

1C-70-22 (hex) Murata Manufacturing Co., Ltd.
1C7022 (base 16) Murata
Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

CC-98-91 (hex) Cisco Systems, Inc
CC9891 (base 16) Cisco Systems, Inc
80 West Tasman Drive

San Jose CA 94568
US

28-BF-89 (hex) Fiberhome Telecommunication Technologies Co.,LTD
28BF89 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

90-3D-BD (hex) SECURE METERS LIMITED
903DBD (base 16) SECURE METERS LIMITED
E CLASS, PRATAP NAGAR INDUSTRIAL AREA
UDAIPUR RAJASTHAN 313003
IN

C0-74-2B (hex) SHENZHEN XUNLONG SOFTWARE CO.,LIMITED
C0742B (base 16) SHENZHEN XUNLONG SOFTWARE CO.,LIMITED
Room 532, Block A, Huameiju Business Center, Xinhu Road, Baoan 82 Area
Shenzhen Guangdong 518133
CN

5C-67-76 (hex) IDS Imaging Development Systems GmbH
5C6776 (base 16) IDS Imaging Development Systems GmbH
Dimbacher Str. 6
Obersulm BW 74182
DE

A0-72-E4
(hex) NJ SYSTEM CO.,LTD
A072E4 (base 16) NJ SYSTEM CO.,LTD
Urim lions valley 5cha, A-1701, 144-3, Sangdaewon-dong, Jungwon-gu
Seongnam Gyeonggido 13201
KR

44-EA-D8 (hex) Texas Instruments
44EAD8 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

18-9B-A5 (hex) IEEE Registration Authority
189BA5 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

A4-91-B1 (hex) Technicolor Delivery Technologies Belgium NV
A491B1 (base 16) Technicolor Delivery Technologies Belgium NV

Prins Boudewijnlaan 47
Edegem - Belgium B-2650
BE

6C-C1-47 (hex) Xiamen Hanin Electronic Technology Co., Ltd
6CC147 (base 16) Xiamen Hanin Electronic Technology Co., Ltd
#8 building, Gaoqi Nan Shi'er Road, Huli Distric
Xiamen Fujian 361000
CN

00-22-94 (hex) KYOCERA CORPORATION
002294 (base 16) KYOCERA CORPORATION
2-1-1,Kagahara
Yokohama-shi Kanagawa 224-8502
JP

38-89-DC
(hex) Opticon Sensors Europe B.V.
3889DC (base 16) Opticon Sensors Europe B.V.
Opaallaan 35
Hoofddorp Noord Holland 2132 XV
NL

74-E5-F9 (hex) Intel Corporate
74E5F9 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

1C-DD-EA (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
1CDDEA (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

94-00-06 (hex) jinyoung
940006 (base 16) jinyoung
1000 Dongil-ro Nowon-gu Seoul
Seoul 01849
KR

40-CE-24 (hex) Cisco Systems, Inc
40CE24 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

34-32-E6 (hex) Panasonic Industrial Devices Europe GmbH

3432E6 (base 16) Panasonic Industrial Devices Europe GmbH
Zeppelinstraße 19
Lüneburg 21337
DE

40-01-7A (hex) Cisco Systems, Inc
40017A (base 16) Cisco Systems,
Inc
80 West Tasman Drive
San Jose CA 94568
US

8C-85-90 (hex) Apple, Inc.
8C8590 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

BC-88-C3 (hex) Ningbo Dooya Mechanic & Electronic Technology Co., Ltd
BC88C3 (base 16) Ningbo Dooya Mechanic & Electronic Technology Co., Ltd
No.168 Shengguang road Luotuo street Zhenhai district
Ningbo Zhejiang 315202
CN

38-CD-07 (hex) Beijing FaceCam Technology Co., Ltd.
38CD07 (base 16) Beijing FaceCam Technology Co., Ltd.
Room C115, DongSheng Building, No 8, East Road, Zhongguan Town, Haidian District
Beijing 100083
CN

A4-34-12 (hex) Thales Alenia Space
A43412 (base 16) Thales Alenia Space
26 av JF Champollion
Toulouse 31037
FR

FC-01-7C (hex) Hon Hai Precision Ind. Co.,Ltd.
FC017C (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

90-32-4B (hex) Hon
Hai Precision Ind. Co.,Ltd.
90324B (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

68-1F-40 (hex) Blu Wireless Technology Ltd
681F40 (base 16) Blu Wireless Technology Ltd
Bluwireless Technology, 5th Floor, 1 Temple Way
Bristol Bristol, City of BS2 0BY
GB

6C-96-CF (hex) Apple, Inc.
6C96CF (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

78-88-6D (hex) Apple, Inc.
78886D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

20-EE-28 (hex) Apple, Inc.
20EE28 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B4-F6-1C (hex) Apple, Inc.
B4F61C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

08-F4-AB (hex) Apple, Inc.
08F4AB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

8C-45-00 (hex) Murata Manufacturing Co., Ltd.
8C4500
(base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

90-AD-F7 (hex) vivo Mobile Communication Co., Ltd.
90ADF7 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860

CN

EC-FA-03 (hex) FCA
ECFA03 (base 16) FCA
800 Chrylser Dr
Auburn Hills MI 48326
US

00-D0-60 (hex) Panasonic Europe Ltd.
00D060 (base 16) Panasonic Europe Ltd.
LABORATORIES GMBH

DE

0C-4B-54 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
0C4B54 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

60-F6-77 (hex) Intel Corporate
60F677 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

E8-E1-E2 (hex) Energotest
E8E1E2 (base 16) Energotest
Chorzowska 44B
Gliwice
Slask 44-100
PL

E4-72-E2 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E472E2 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

50-8F-4C (hex) Xiaomi Communications Co Ltd
508F4C (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

A4-77-58 (hex) Ningbo Freewings Technologies Co.,Ltd
A47758 (base 16) Ningbo Freewings Technologies Co.,Ltd
No.502 Wenshui Road, Shounan Street, Yinzhou District

Ningbo Zhejiang 315192
CN

00-12-7D (hex) MobileAria
00127D (base 16) MobileAria
800 W El Camino Real #240
Mountain View CA 94040
US

60-2E-20 (hex) HUAWEI TECHNOLOGIES CO.,LTD
602E20 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

58-A0-CB (hex) TrackNet, Inc
58A0CB
(base 16) TrackNet, Inc
900 Lafayette Street #329
Santa Clara CA 95050
US

A0-88-69 (hex) Intel Corporate
A08869 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-8B-FC (hex) mixi,Inc.
008BFC (base 16) mixi,Inc.
Sumitomo Shibuya First Tower 7F, 1-2-20 Higashi
Shibuya-ku Tokyo 150-0011
JP

18-B8-1F (hex) ARRIS Group, Inc.
18B81F (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

94-E3-6D (hex) Texas Instruments
94E36D (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

E0-60-89 (hex) Cloudleaf, Inc.
E06089 (base 16) Cloudleaf, Inc.

860 Hillview Court, Suite 350
Milpitas CA 95035
US

78-36-90 (hex) Yulong Computer Telecommunication Scientific (Shenzhen) Co.,Ltd
783690 (base 16) Yulong Computer Telecommunication Scientific (Shenzhen) Co.,Ltd
Road NO2, West of Industrial Park,North of Science
& Technology Park
Dongguan Guangdong 518057
CN

F0-F8-F2 (hex) Texas Instruments
F0F8F2 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

34-15-13 (hex) Texas Instruments
341513 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

74-81-9A (hex) PT. Hartono Istana Teknologi
74819A (base 16) PT. Hartono Istana Teknologi
KHR Asnawi
Kudus Jawa Tengah 59332
ID

C4-44-A0 (hex) Cisco Systems, Inc
C444A0 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

18-74-2E (hex) Amazon Technologies Inc.
18742E (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno 89507
US

F8-44-E3 (hex) Taicang T&W Electronics
F844E3 (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

28-35-45 (hex) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD

283545 (base 16) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
Unit
East Block22-24/F,Skyworth semiconductor design Bldg., Gaoxin Ave.4.S.,Nanshan District,Shenzhen,China
SHENZHEN GUANGDONG 518057
CN

04-4F-4C (hex) HUAWEI TECHNOLOGIES CO.,LTD
044F4C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

1C-15-1F (hex) HUAWEI TECHNOLOGIES CO.,LTD
1C151F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D8-37-BE (hex) SHENZHEN GONGJIN ELECTRONICS CO.,LT
D837BE (base 16) SHENZHEN GONGJIN ELECTRONICS CO.,LT
#1905 Mei Hong Road
Shanghai Shanghai 200000
CN

90-A3-65 (hex) HMD Global Oy
90A365 (base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo 02600
FI

DC-44-B6 (hex) Samsung Electronics Co.,Ltd
DC44B6 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

10-07-B6 (hex) Samsung
Electronics Co.,Ltd
1007B6 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

24-A5-34 (hex) SynTrust Tech International Ltd.
24A534 (base 16) SynTrust Tech International Ltd.
10F-1, No. 125, Songde Road,
Taipei Taiwan 110
TW

A8-2B-B5 (hex) Edgecore Networks Corporation
A82BB5 (base 16) Edgecore Networks Corporation
1 Creation RD 3.
Hsinchu 30077
TW

A0-42-3F (hex) Tyan Computer Corp
A0423F (base 16) Tyan Computer Corp
3288 Larurelview Court
Fremont CA 94538
US

70-F1-1C (hex) Shenzhen Ogemray Technology Co.,Ltd
70F11C (base 16) Shenzhen Ogemray Technology Co.,Ltd
4/F,5Bldg,Dongwu Industrial Park, Donghuan 1st Rd, Longhua District.
Shenzhen 518059
CN

70-65-A3 (hex) Kandao lightforge Co., Ltd.
7065A3 (base 16) Kandao lightforge Co., Ltd.
5th Floor, M7 Steel Building, the second way in Technology Road , Nanshan District,
Shenzhen
Guangdong 518057
CN

74-D0-DC (hex) Ericsson AB
74D0DC (base 16) Ericsson AB
Torshamnsgatan 48
STOCKHOLM 164 83
SE

54-BD-79 (hex) Samsung Electronics Co.,Ltd
54BD79 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

34-2D-0D (hex) Samsung Electronics Co.,Ltd
342D0D (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

78-11-DC (hex) XIAOMI Electronics,CO.,LTD
7811DC (base 16) XIAOMI Electronics,CO.,LTD
Xiaomi Building, No.68 Qinghe Middle Street
Haidian District Beijing 100085

CN

D4-63-C6 (hex) Motorola Mobility LLC, a Lenovo Company
D463C6 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

C0-8A-DE (hex) Ruckus Wireless
C08ADE (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

00-1D-2E (hex) Ruckus
Wireless
001D2E (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

8C-0C-90 (hex) Ruckus Wireless
8C0C90 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

6C-AA-B3 (hex) Ruckus Wireless
6CAAB3 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

00-13-92 (hex) Ruckus Wireless
001392 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

D4-68-4D (hex) Ruckus Wireless
D4684D (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

A0-C5-F2 (hex) IEEE Registration Authority
A0C5F2 (base 16) IEEE Registration Authority
445 Hoes Lane

Piscataway NJ 08554
US

A8-6B-7C (hex) SHENZHEN FENGLIAN TECHNOLOGY CO., LTD.
A86B7C (base 16) SHENZHEN FENGLIAN TECHNOLOGY CO., LTD.
ORIENTAL CYBERPORT, HIGHTECH 6 ROAD
SHENZHEN GUANGDONG 518057
CN

B0-39-56 (hex) NETGEAR
B03956
(base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

EC-42-B4 (hex) ADC Corporation
EC42B4 (base 16) ADC Corporation
77-1, Miyako
Namegawa-machi, Hiki-gun Saitama Pref. 355-0812
JP

60-DA-83 (hex) Hangzhou H3C Technologies Co., Limited
60DA83 (base 16) Hangzhou H3C Technologies Co., Limited
466 Changhe Road, Binjiang District
Hangzhou Zhejiang, P.R.China 310052
CN

2C-57-31 (hex) Wingtech Group (HongKongLimited
2C5731 (base 16) Wingtech Group (HongKongLimited
FLAT/RM 1903 19/F PODIUM PLAZA 5HANOI ROAD TSIM SHA TSUI
Hong Kong Hong Kong 999077
HK

48-59-A4 (hex) zte corporation
4859A4 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

08-51-14 (hex) QINGDAO TOPSCOMM COMMUNICATION CO., LTD
085114 (base 16) QINGDAO TOPSCOMM COMMUNICATION CO., LTD
7/F, Building 6, NO.288, Ningxia Road
Qingdao
Shandong 266024
CN

70-78-8B (hex) vivo Mobile Communication Co., Ltd.

70788B (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

AC-9E-17 (hex) ASUSTek COMPUTER INC.
AC9E17 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

64-16-66 (hex) Nest Labs Inc.
641666 (base 16) Nest Labs Inc.
3400 Hillview Ave.
Palo Alto CA 94304
US

CC-46-39 (hex) WAAV, Inc.
CC4639 (base 16) WAAV, Inc.
151 PEARL ST FL 4
BOSTON MA 02110
US

D8-DF-7A (hex) Quest Software, Inc.
D8DF7A (base 16) Quest Software, Inc.
4 Polaris Way
Aliso Viejo CA 92656
US

A0-23-9F (hex) Cisco Systems, Inc
A0239F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

70-F3-5A (hex) Cisco Systems, Inc
70F35A (base 16) Cisco Systems, Inc
80 West Tasman Drive
San
Jose CA 94568
US

B4-E6-2A (hex) LG Innotek
B4E62A (base 16) LG Innotek
26, Hanamsandan 5beon-ro
Gwangju Gwangsan-gu 506-731
KR

E4-A7-49 (hex) Palo Alto Networks
E4A749 (base 16) Palo Alto Networks
3000 Tannery Way
Santa Clara CA 95054
US

A0-AF-BD (hex) Intel Corporate
A0AFBD (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

7C-8B-CA (hex) TP-LINK TECHNOLOGIES CO.,LTD.
7C8BCA (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

B0-4E-26 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
B04E26 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

B0-89-C2 (hex) Zyptonite
B089C2 (base 16) Zyptonite
1460 Broadway,
12 fl.
New York NY 10036
US

F0-23-B9 (hex) IEEE Registration Authority
F023B9 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

30-07-4D (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
30074D (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T. Bangsamak SEMTHAI, WELLGROW INDUSTRIAL ESTATE
Bangpakong Chachoengsao 24180
TH

A0-34-1B (hex) Adero Inc
A0341B (base 16) Adero Inc
7410 HOllister Ave
Goleta CA 93117
US

8C-14-7D (hex) IEEE Registration Authority
8C147D (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

FC-4D-D4 (hex) Universal Global Scientific Industrial Co., Ltd.
FC4DD4 (base 16) Universal Global Scientific Industrial Co., Ltd.
141, Lane 351, Taiping Rd. Sec. 1, Tsao Tuen,
Nan-Tou Hsien, 542
TW

14-5B-E1 (hex) nyantec GmbH
145BE1 (base 16) nyantec GmbH
Europaplatz 2
Berlin 10557
DE

A4-F4-C2
(hex) VNPT TECHNOLOGY
A4F4C2 (base 16) VNPT TECHNOLOGY
HoaLac Hi-Tech Park
HANOI HANOI 10000
VN

48-10-63 (hex) NTT Innovation Institute, Inc.
481063 (base 16) NTT Innovation Institute, Inc.
1950 University Avenue, Suite 600
East Palo Alto CA 94303
US

A0-8E-78 (hex) Sagemcom Broadband SAS
A08E78 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

94-7B-E7 (hex) Samsung Electronics Co.,Ltd
947BE7 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

50-92-B9 (hex) Samsung Electronics Co.,Ltd
5092B9 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350

KR

DC-74-A8 (hex) Samsung Electronics Co.,Ltd
DC74A8 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

88-D5-0C (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
88D50C (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

D4-28-D5 (hex) TCT mobile ltd
D428D5 (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

1C-1F-D4 (hex) LifeBEAM Technologies LTD
1C1FD4 (base 16) LifeBEAM Technologies LTD
150 Greenwich st 4WTC - 29th floor
New York NY 10007
US

00-9A-D2 (hex) Cisco Systems, Inc
009AD2 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E8-39-35 (hex) Hewlett Packard
E83935 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

00-18-0A (hex) Cisco Meraki
00180A (base 16) Cisco Meraki
99 Rhode Island St.
San Francisco, CA 94103
US

18-A9-58 (hex) PROVISION THAI CO., LTD.
18A958 (base 16) PROVISION THAI CO., LTD.
155/7-10 Rachadapisek Rd.,

Thonburi
Bangkok 10600
TH

9C-E9-51 (hex) Shenzhen Sang Fei Consumer Communications Ltd., Co.
9CE951 (base 16) Shenzhen Sang Fei Consumer Communications Ltd., Co.
11,Science And Technology Road, Shenzhen Hi-tech Industrial Park, Nanshan District
Shenzhen City Guangdong 518057
CN

74-C9-A3 (hex) Fiberhome Telecommunication Technologies Co.,LTD
74C9A3 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

EC-8A-4C (hex) zte corporation
EC8A4C (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

D4-5F-25 (hex) Shenzhen YOUHUA Technology Co., Ltd
D45F25 (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

40-C8-CB (hex) AM Telecom co., Ltd.
40C8CB (base 16) AM Telecom co.,
Ltd.
#608,YatapLeaders B/D, Jangmi-ro 42, Bundang-gu
Seongnam-si Gyeonggi-do 463-828
KR

90-70-65 (hex) Texas Instruments
907065 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

5C-6A-80 (hex) Zyxel Communications Corporation
5C6A80 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

D8-60-B3 (hex) Guangdong Global Electronic Technology CO.LTD

D860B3 (base 16) Guangdong Global Electronic Technology CO.LTD
Floor4 East side,build#6,Huangzhou industry Park, chebei Road, Tianhe District
GuangZhou GuangDong 510660
CN

64-35-1C (hex) e-CON SYSTEMS INDIA PVT LTD
64351C (base 16) e-CON SYSTEMS INDIA PVT LTD
RR Tower 4, 7th Floor, TVK IND Estate, Guindy
Chennai Other 600032
IN

A8-D5-79 (hex) Beijing Chushang Science and Technology Co.,Ltd
A8D579 (base 16) Beijing Chushang Science and Technology Co.,Ltd
3A285 room,3
layer,1 building,No 11 of yongwai song zhuang road,Fengtai district,Beijing
Beijing Beijing 518000
CN

44-48-C1 (hex) Hewlett Packard Enterprise
4448C1 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

60-53-17 (hex) Sandstone Technologies
605317 (base 16) Sandstone Technologies
1920 lyell ave
Rochester NY 14606
US

60-BA-18 (hex) nextLAP GmbH
60BA18 (base 16) nextLAP GmbH
Hofmannstr. 61
München 81379
DE

84-CD-62 (hex) ShenZhen IDWELL Technology CO.,Ltd
84CD62 (base 16) ShenZhen IDWELL Technology CO.,Ltd
4F,Building 20 Changxing Industrial Park,Shayi,Shajing,BaoAn
ShenZhen 518000
CN

B8-D5-0B (hex) Sunitec Enterprise Co.,Ltd
B8D50B (base 16) Sunitec Enterprise Co.,Ltd
3F.,No.98-1,Mincyuan Rd.Sindian City
Taipei County 231 231141
CN

BC-66-DE (hex) Shadow Creator Information Technology Co.,Ltd.
BC66DE (base 16) Shadow Creator
Information Technology Co.,Ltd.
Shanghai City, Pudong New Area Zhangjiang road 368, Building 29, room 611
Shanghai Shanghai 200120
CN

9C-AF-6F (hex) ITEL MOBILE LIMITED
9CAF6F (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

FC-53-9E (hex) Shanghai Wind Technologies Co.,Ltd
FC539E (base 16) Shanghai Wind Technologies Co.,Ltd
Floor 8,East Building,Guilin Technology Mansion,No.650,Caobao Road,XuHui District,Shanghai,P.R.China
Shanghai Shanghai 200233
CN

C8-3A-6B (hex) Roku, Inc
C83A6B (base 16) Roku, Inc
1155 Coleman Ave
San Jose CA 95110
US

B4-C6-F8 (hex) Axilspot Communication
B4C6F8 (base 16) Axilspot Communication
A302 Han's Innovation Building, No.9018 Beihuan Ave., Nanshan District
Shenzhen 518000
CN

00-1F-A4 (hex) SHENZHEN GONGJIN ELECTRONICS CO.,LT
001FA4 (base 16) SHENZHEN
GONGJIN ELECTRONICS CO.,LT
4F,Baiying Building, No.1019,Nanhai RD,Shekou,
ShenZhen GuangDong 518067
CN

C4-AE-12 (hex) Samsung Electronics Co.,Ltd
C4AE12 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

58-D9-D5 (hex) Tenda Technology Co.,Ltd.Dongguan branch
58D9D5 (base 16) Tenda Technology Co.,Ltd.Dongguan branch
Room 79,Yuanyi Road,Dalang Town,Dongguan Guangdong 523770
Dongguan Guangdong 523770

CN

94-D2-99 (hex) Techmation Co.,Ltd.
94D299 (base 16) Techmation Co.,Ltd.
9F., No.529, Zhongzheng Rd., Xindian Dist., New Taipei City 231, Taiwan
New Taipei City 231
TW

6C-AB-31 (hex) Apple, Inc.
6CAB31 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

4C-74-BF (hex) Apple, Inc.
4C74BF (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

04-94-6B (hex) TECNO MOBILE LIMITED
04946B (base 16) TECNO
MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

A0-4C-5B (hex) Shenzhen TINNO Mobile Technology Corp.
A04C5B (base 16) Shenzhen TINNO Mobile Technology Corp.
Building, No.33, Xiandong Rd, Xili
Nanshan District, Shenzhen PRC 518053
CN

F8-59-71 (hex) Intel Corporate
F85971 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

34-1A-35 (hex) Fiberhome Telecommunication Technologies Co.,LTD
341A35 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

2C-02-9F (hex) 3ALogics
2C029F (base 16) 3ALogics

#704, Hyundai office B'd, Sunae-dong, Bundang-gu
Seongnam-si 13601
KR

00-05-0F (hex) Tanaka S/S Ltd.
00050F (base 16) Tanaka S/S Ltd.
1942 Nomura Hirooka
Nagano 399-0702
JP

48-88-03
(hex) ManTechnology Inc.
488803 (base 16) ManTechnology Inc.
12th Fl, 308-4 Seongsoodong 2ga, Seongdonggu
Seoul 04781
KR

B4-36-E3 (hex) KBVISION GROUP
B436E3 (base 16) KBVISION GROUP
337 N. Vineyard Avenue, 4th Floor, San Jose, CA 91764
San Jose CA 90847
US

6C-4B-90 (hex) LiteON
6C4B90 (base 16) LiteON
5F, No.90, Rd. Chien 1, ChungHo
New Taipei Taiwan 23505
TW

2C-AB-EB (hex) Cisco Systems, Inc
2CABEB (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

64-D1-54 (hex) Routerboard.com
64D154 (base 16) Routerboard.com
Mikrotikls SIA
Riga Riga LV1009
LV

98-9E-63 (hex) Apple, Inc.
989E63 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

88-6B-6E (hex) Apple, Inc.

886B6E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D4-DC-CD (hex) Apple, Inc.
D4DCCD (base 16) Apple, Inc.
1 Infinite
Loop
Cupertino CA 95014
US

48-4B-AA (hex) Apple, Inc.
484BAA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

DC-A9-04 (hex) Apple, Inc.
DCA904 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

BC-45-2E (hex) Knowledge Development for POF S.L.
BC452E (base 16) Knowledge Development for POF S.L.
Ronda de Poniente 14, 2-C,D
Tres Cantos Madrid 28760
ES

70-6D-EC (hex) Wifi-soft LLC
706DEC (base 16) Wifi-soft LLC
616, West Monroe
Austin TX 78704
US

B0-C2-05 (hex) BIONIME
B0C205 (base 16) BIONIME
No.100, Sec.2, Daqing St., South Dist.,
Taichung Taiwan 40242
TW

94-F5-51 (hex) Cadi Scientific Pte Ltd
94F551 (base 16) Cadi Scientific Pte Ltd
31 Ubi Road 1, Aztech Building, #07-01A
Singapore 408694
SG

F4-E4-AD (hex) zte corporation
F4E4AD (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen
guangdong 518057
CN

28-FF-3E (hex) zte corporation
28FF3E (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

B8-D7-AF (hex) Murata Manufacturing Co., Ltd.
B8D7AF (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

D4-AE-05 (hex) Samsung Electronics Co.,Ltd
D4AE05 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

10-05-CA (hex) Cisco Systems, Inc
1005CA (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

78-94-B4 (hex) Sercomm Corporation.
7894B4 (base 16) Sercomm Corporation.
3F,No.81,Yu-Yih Rd.,Chu-Nan Chen
Miao-Lih Hsuan 115
TW

E0-48-AF (hex) Premietech Limited
E048AF (base 16) Premietech Limited
Unit 805, Tower 3, Enterprise Square I
No. 9 Sheung Yuet Road Kowloon Bay
HongKong 00000
HK

2C-33-11 (hex) Cisco Systems, Inc
2C3311 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568

US

50-82-D5 (hex) Apple, Inc.
5082D5 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

3C-A0-67 (hex) Liteon Technology Corporation
3CA067 (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

F0-EE-10 (hex) Samsung Electronics Co.,Ltd
F0EE10 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C4-70-0B (hex) GUANGZHOU CHIP TECHNOLOGIES CO.,LTD
C4700B (base 16) GUANGZHOU CHIP TECHNOLOGIES CO.,LTD
4th floor, Building J of JiTang Industrial Zone, No. 8 NanYun fifth road, HuangPu District
Guangzhou Guangdong 510700
CN

44-37-08 (hex) MRV Comunications
443708 (base 16) MRV Comunications
Hayetzira
Yokneam 614
IL

1C-1E-E3 (hex) Hui Zhou Gaoshengda
Technology Co.,LTD
1C1EE3 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.75,Zhongkai High-Tech Development District,Huizhou
Hui Zhou Guangdong 516006
CN

44-03-2C (hex) Intel Corporate
44032C (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

50-0F-F5 (hex) Tenda Technology Co.,Ltd.Dongguan branch
500FF5 (base 16) Tenda Technology Co.,Ltd.Dongguan branch
Room 79,Yuanyi Road,Dalang Town,Dongguan Guangdong 523770

Dongguan Guangdong 523770
CN

BC-02-4A (hex) HMD Global Oy
BC024A (base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo 02600
FI

94-99-01 (hex) Shenzhen YITOA Digital Appliance CO.,LTD
949901 (base 16) Shenzhen YITOA Digital Appliance CO.,LTD
5/F,Yitoa Building,Keji South Road 5th,Hi-tech Industrial Park,Nanshan District,
shenzhen Guangdong 518000
CN

28-5F-2F (hex) RNware Co.,Ltd.
285F2F (base 16) RNware Co.,Ltd.
#202 ICT Park Bldg,
205, Songhyun-ro, Dalseo-gu
Daegu 42734
KR

10-5A-F7 (hex) ADB Italia
105AF7 (base 16) ADB Italia
Viale Sarca 222
Milan Italy 20126
IT

B8-1D-AA (hex) LG Electronics (Mobile Communications)
B81DAA (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

00-E4-00 (hex) Sichuan Changhong Electric Ltd.
00E400 (base 16) Sichuan Changhong Electric Ltd.
No.35,East MianXin Road,MianYang,Sichaun,China.
MianYang SiChuan PRC 621000
CN

54-2F-8A (hex) TELLESCOM INDUSTRIA E COMERCIO EM TELECOMUNICACAO
542F8A (base 16) TELLESCOM INDUSTRIA E COMERCIO EM TELECOMUNICACAO
Av. Buriti, 1900 – Setor B – Distrito Industrial
Manaus Amazonas 69075-000
BR

08-CC-A7 (hex) Cisco Systems, Inc
08CCA7 (base 16) Cisco Systems, Inc

80 West Tasman Drive
San Jose CA 94568
US

08-96-AD (hex) Cisco Systems, Inc
0896AD (base 16) Cisco Systems, Inc
80
West Tasman Drive
San Jose CA 94568
US

2C-55-D3 (hex) HUAWEI TECHNOLOGIES CO.,LTD
2C55D3 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

DC-C6-4B (hex) HUAWEI TECHNOLOGIES CO.,LTD
DCC64B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

04-33-89 (hex) HUAWEI TECHNOLOGIES CO.,LTD
043389 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-A0-68 (hex) BHP LIMITED
00A068 (base 16) BHP LIMITED
1500 Post Oak Boulevard #11.08 B
Houston TX 77056-3030
US

70-3A-CB (hex) Google, Inc.
703ACB (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

00-C0-24 (hex) EDEN SISTEMAS DE COMPUTACAO SA
00C024 (base 16) EDEN SISTEMAS DE COMPUTACAO SA
RUA
DO OUVIDOR 121 5 ANDAR

BR

7C-46-85 (hex) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
7C4685 (base 16) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
No.19, Gaoxin 4th Road, Wuhan East Lake High-tech Zone, Wuhan
Wuhan Hubei 430000
CN

60-14-B3 (hex) CyberTAN Technology Inc.
6014B3 (base 16) CyberTAN Technology Inc.
99 Park Ave III, Hsinchu Science Park
Hsinchu 308
TW

10-56-11 (hex) ARRIS Group, Inc.
105611 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

1C-39-8A (hex) Fiberhome Telecommunication Technologies Co.,LTD
1C398A (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

00-17-9B (hex) CHANT SINCERE CO.,LTD
00179B (base 16) CHANT SINCERE CO.,LTD
7F-2,NO.188,Sec 3,Ta Tung Rood,
Hsi Chih City Taipei Hsien 221
TW

78-68-F7 (hex) YSTen Technology
Co.,Ltd
7868F7 (base 16) YSTen Technology Co.,Ltd
Room 1715,17/F North Star Times Tower,Chaoyang District,Beijing.
Beijing 100101
CN

44-D4-37 (hex) Inteno Broadband Technology AB
44D437 (base 16) Inteno Broadband Technology AB
Stensätravägen 13
Skärholmen SE 127 39
SE

EC-E1-54 (hex) Beijing Unisound Information Technology Co.,Ltd.
ECE154 (base 16) Beijing Unisound Information Technology Co.,Ltd.
Rm406,keyan Building,Tsinghua Hi-tech Park,High-tech Industrial Park North Area,Nanshan
Shenzhen 518057
CN

E8-65-D4 (hex) Tenda Technology Co.,Ltd.Dongguan branch
E865D4 (base 16) Tenda Technology Co.,Ltd.Dongguan branch
Room 79,Yuanyi Road,Dalang Town,Dongguan Guangdong 523770
Dongguan Guangdong 523770
CN

24-D5-1C (hex) Zhongtian broadband technology co., LTD
24D51C (base 16) Zhongtian broadband technology co., LTD
Rudong hekou town Zhongtian industrial park
Nantong jiangsu Province
226463
CN

EC-43-F6 (hex) Zyxel Communications Corporation
EC43F6 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

60-C6-58 (hex) PHYTRONIX Co.,Ltd.
60C658 (base 16) PHYTRONIX Co.,Ltd.
1877-3 Ootashimo-machi
Takamatsu Kagawa 761-8073
JP

FC-B5-8A (hex) Wapice Ltd.
FCB58A (base 16) Wapice Ltd.
Yliopistonranta 5
Vaasa 65200
FI

34-78-77 (hex) O-Net Communications (Shenzhen) Limited
347877 (base 16) O-Net Communications (Shenzhen) Limited
#10-1 South,Maqueling Industrial Park,Nanshan District
Shenzhen Guangdong 518057
CN

00-20-CC (hex) DIGITAL SERVICES, LTD.
0020CC (base 16) DIGITAL SERVICES, LTD.
9 WAYTE STREET
ENGLAND PO6 3BS
GB

08-23-B2 (hex) vivo Mobile Communication Co., Ltd.
0823B2 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860

CN

88-C3-B3
(hex) SOVICO
88C3B3 (base 16) SOVICO
2271-5 Nambusunhwan-ro, Seocho-gu
Seoul 06703
KR

A4-62-DF (hex) DS Global. Co., LTD
A462DF (base 16) DS Global. Co., LTD
3F, 107, Gasan digital 2-ro, Geumcheon-gu
Seoul 08505
KR

4C-16-94 (hex) shenzhen sibituo Technology Co., Ltd
4C1694 (base 16) shenzhen sibituo Technology Co., Ltd
15C Yuehua Park Nanshan Road Nanshan District
SHENZHEN guangdong 518000
CN

6C-16-0E (hex) ShotTracker
6C160E (base 16) ShotTracker
7220 W Frontage Rd
Merriam KS 66203
US

80-3A-0A (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
803A0A (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

E0-51-24 (hex) NXP Semiconductors
E05124 (base 16) NXP Semiconductors
411 E. Plumeria Drive
San Jose CA 95134
US

00-1D-A3 (hex) SabiOso
001DA3 (base 16) SabiOso
189
S State Suite #250
Clearfield Utah 84015
US

68-9F-F0 (hex) zte corporation
689FF0 (base 16) zte corporation

12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

00-01-4F (hex) Adtran Inc
00014F (base 16) Adtran Inc
901 Explorer Blvd.
Huntsville AL 35806-2807
US

28-52-61 (hex) Cisco Systems, Inc
285261 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

28-6F-7F (hex) Cisco Systems, Inc
286F7F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

20-78-0B (hex) Delta Faucet Company
20780B (base 16) Delta Faucet Company
55 East 111th Street
Indianapolis IN 46280
US

0C-73-BE (hex) Dongguan Haimai Electronie Technology Co.,Ltd
0C73BE (base 16) Dongguan Haimai Electronie Technology Co.,Ltd
Room 701Yifeng Building7, No.8 Industrial Zone, Xianbian Road, Changan Town Xiaobian edge
Dongguan
Guangdong 518000
CN

F0-C8-50 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F0C850 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C8-14-51 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C81451 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

5C-AF-06 (hex) LG Electronics (Mobile Communications)

5CAF06 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

24-A7-DC (hex) SKY UK LIMITED
24A7DC (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

98-B6-E9 (hex) Nintendo Co.,Ltd
98B6E9 (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

F8-98-3A (hex) Leeman International (HongKong) Limited
F8983A (base 16) Leeman International (HongKong) Limited
Number
13 first floor Y1 cultural creative park bantian
shen zhen 51800
CN

4C-EC-EF (hex) Soraa, Inc.
4CECEF (base 16) Soraa, Inc.
6500 Kaiser Dr Suite 110
Fremont CA 94555
US

1C-EF-CE (hex) bebro electronic GmbH
1CEFCE (base 16) bebro electronic GmbH
MAx-Planck-Str. 6-8
Frickenhausen 72636
DE

30-E1-71 (hex) Hewlett Packard
30E171 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston TX 77070
US

F0-15-B9 (hex) PlayFusion Limited
F015B9 (base 16) PlayFusion Limited
St Johns Innovation Centre
Cambridge CB4 0WS
GB

64-DB-A0 (hex) Select Comfort
64DBA0 (base 16) Select Comfort
9800 59th Ave N
Minneapolis MN 55442
US

2C-D0-2D (hex) Cisco Systems, Inc
2CD02D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

18-40-A4 (hex) Shenzhen Trylong Smart Science and Technology Co., Ltd.
1840A4 (base 16) Shenzhen Trylong Smart
Science and Technology Co., Ltd.
15E, qingdian building, No#6007, Binhe road, futian district
Shenzhen city Guangdong Province 518100
CN

C8-AA-55 (hex) Hunan Comtom Electronic Incorporated Co.,Ltd
C8AA55 (base 16) Hunan Comtom Electronic Incorporated Co.,Ltd
6 -7 Floor, Jindan Building B,Xiongtian Road, Furong District
changsha Hunan 410126
CN

64-B0-A6 (hex) Apple, Inc.
64B0A6 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

7C-04-D0 (hex) Apple, Inc.
7C04D0 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

84-FC-AC (hex) Apple, Inc.
84FCAC (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

DC-0C-5C (hex) Apple, Inc.
DC0C5C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

70-70-0D (hex) Apple, Inc.
70700D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-1D-72 (hex) Wistron Corporation
001D72
(base 16) Wistron Corporation
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,
Taipei Hsien 221
TW

18-65-90 (hex) Apple, Inc.
186590 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F8-62-14 (hex) Apple, Inc.
F86214 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

78-4F-43 (hex) Apple, Inc.
784F43 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

40-4D-7F (hex) Apple, Inc.
404D7F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

1C-48-CE (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
1C48CE (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

D8-19-7A (hex) Nuheara Ltd
D8197A (base 16) Nuheara Ltd
Unit 5, 28 John St
Northbridge WA 6003

AU

4C-38-D5 (hex) MITAC COMPUTING TECHNOLOGY CORPORATION
4C38D5 (base
16) MITAC COMPUTING TECHNOLOGY CORPORATION
3F., NO.1, R&D ROAD 2, HSINCHU SCIENCE PARK
HSINCHU 30076
TW

54-B5-6C (hex) Xi'an NovaStar Tech Co., Ltd
54B56C (base 16) Xi'an NovaStar Tech Co., Ltd
4F, Block D, Qinfeng Pavilion, Xi'an Software Park, No.68 Keji 2nd Rd.,
Xi'an Shanxi 710075
CN

2C-DC-AD (hex) Wistron Neweb Corporation
2CDCAD (base 16) Wistron Neweb Corporation
No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu R.O.C. 308
TW

6C-5C-14 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
6C5C14 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

4C-74-87 (hex) Leader Phone Communication Technology Co., Ltd.
4C7487 (base 16) Leader Phone Communication Technology Co., Ltd.
121 Room (Park) No.1 Building, No.10 Xinghuo Road Science City Feng-tai District, Beijing, China
Beijing 100070
CN

C8-0C-C8 (hex) HUAWEI
TECHNOLOGIES CO.,LTD
C80CC8 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

34-4C-C8 (hex) Echodyne Corp
344CC8 (base 16) Echodyne Corp
2380 116th Ave NE
Bellevue WA 98004
US

64-13-6C (hex) zte corporation
64136C (base 16) zte corporation

12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

04-B6-48 (hex) ZENNER
04B648 (base 16) ZENNER
Roemerstadt 6
Saarbruecken 66121
DE

98-F1-99 (hex) NEC Platforms, Ltd.
98F199 (base 16) NEC Platforms, Ltd.
2-3 Kandatsukasamachi
Chiyodaku Tokyo 101-8532
JP

60-3E-7B (hex) Gafachi, Inc.
603E7B (base 16) Gafachi, Inc.
1 W Main St., STE 650
Rochester NY 14614
US

04-25-C5 (hex) HUAWEI TECHNOLOGIES CO.,LTD
0425C5 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan
523808
CN

AC-83-F3 (hex) AMPAK Technology, Inc.
AC83F3 (base 16) AMPAK Technology, Inc.
No.1,Jen Ai Road Hsinchu Industrial Park, Hukou
Hsinchu Taiwan ROC. 30352
TW

90-D7-BE (hex) Wavelab Global Inc.
90D7BE (base 16) Wavelab Global Inc.
12007 Sunrise Valley Drive, Suite 450
Reston VA 20191
US

24-4E-7B (hex) IEEE Registration Authority
244E7B (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

30-AE-A4 (hex) Espressif Inc.

30AEA4 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

CC-8C-DA (hex) Shenzhen Wei Da Intelligent Technology Go.,Ltd
CC8CDA (base 16) Shenzhen Wei Da Intelligent Technology Go.,Ltd
5K, Block B,Yueshang Center Cultural Square Jianshe East Rd Longhua New District
Shenzhen 518109
CN

D4-36-DB (hex) Jiangsu Toppower Automotive Electronics Co., Ltd
D436DB
(base 16) Jiangsu Toppower Automotive Electronics Co., Ltd
No. 2 Tuolanshan Road
Xuzhou Jiangsu 221004
CN

7C-25-87 (hex) chaowifi.com
7C2587 (base 16) chaowifi.com
No. 502 1th Building TaiHe Square
HangZhou QianJiangRoad 310002
CN

B0-A2-E7 (hex) Shenzhen TINNO Mobile Technology Corp.
B0A2E7 (base 16) Shenzhen TINNO Mobile Technology Corp.
Building, No.33, Xiandong Rd, Xili
Nanshan District, Shenzhen PRC 518053
CN

E8-09-45 (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
E80945 (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

00-21-44 (hex) SS Telecoms
002144 (base 16) SS Telecoms
23 Botha Avenue
Centurion Gauteng 0140
ZA

20-71-9E (hex) SF Technology Co.,Ltd
20719E (base 16) SF Technology Co.,Ltd
1/F,Block B,Building 1,ShenzhenSoftware Industry Base,Hi-Tech Industrial Park South
Shenzhen Guangdong
Province 518054
CN

2C-C2-60 (hex) Oracle Corporation
2CC260 (base 16) Oracle Corporation
Zarhin 13
Raanana 4366241
IL

3C-3F-51 (hex) 2CRSI
3C3F51 (base 16) 2CRSI
32 rue Jacobi-Netter
STRASBOURG France 67200
FR

3C-2A-F4 (hex) Brother Industries, LTD.
3C2AF4 (base 16) Brother Industries, LTD.
15-1, Naeshirocho, Mizuho-ku
NAGOYA 4678561
JP

50-58-4F (hex) waytotec,Inc.
50584F (base 16) waytotec,Inc.
#604-4,B-Dong,Bundang Technopark,148,Yatap-dong,Bundang-gu,
Seongnam-si Gyeonggi-do 13511
KR

CC-61-E5 (hex) Motorola Mobility LLC, a Lenovo Company
CC61E5 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

EC-0D-9A (hex) Mellanox Technologies, Inc.
EC0D9A (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway, Suite 100
Sunnyvale CA 94085
US

3C-FA-43 (hex) HUAWEI TECHNOLOGIES CO.,LTD
3CFA43
(base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

14-5F-94 (hex) HUAWEI TECHNOLOGIES CO.,LTD
145F94 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808

CN

CC-94-70 (hex) Kinestral Technologies, Inc.
CC9470 (base 16) Kinestral Technologies, Inc.
400 E Jamie Ct., Ste. 201
South San Francisco CA 94080
US

08-5D-DD (hex) MERCURY CORPORATION
085DDD (base 16) MERCURY CORPORATION
90, Gajaeul-ro, Seo-gu
INCHEON 22830
KR

78-23-AE (hex) ARRIS Group, Inc.
7823AE (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1F-82 (hex) Cal-Comp Electronics & Communications Company Ltd.
001F82 (base 16) Cal-Comp Electronics & Communications Company Ltd.
No.147, Sec. 3, Beishen Rd
Shenkeng Dist New Taipei City ---
TW

88-3C-1C
(hex) MERCURY CORPORATION
883C1C (base 16) MERCURY CORPORATION
90, Gajaeul-ro, Seo-gu
INCHEON 22830
KR

28-34-A2 (hex) Cisco Systems, Inc
2834A2 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

00-6B-F1 (hex) Cisco Systems, Inc
006BF1 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-50-1E (hex) Grass Valley, A Belden Brand
00501E (base 16) Grass Valley, A Belden Brand
3499, Douglas B. Floreani

Montreal Quebec H4S 2C6
CA

B4-39-D6 (hex) ProCurve Networking by HP
B439D6 (base 16) ProCurve Networking by HP
60 Alexandra Terrace
0000 118502
SG

34-F3-9A (hex) Intel Corporate
34F39A (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

8C-60-E7 (hex) MPGIO CO.,LTD
8C60E7 (base 16) MPGIO CO.,LTD
MPGIO Bldg., 98 Uijeong St.,
Uijeongbu Korea / Gyeonggi 11623
KR

8C-8A-BB
(hex) Beijing Orient View Technology Co., Ltd.
8C8ABB (base 16) Beijing Orient View Technology Co., Ltd.
Building NO.1, LiYe Road 7
Huilongguan Town Changping District, Beijing 102206
CN

00-03-9B (hex) NetChip Technology, Inc.
00039B (base 16) NetChip Technology, Inc.
335 Pioneer Way
Mountain View CA 94041
US

60-9A-C1 (hex) Apple, Inc.
609AC1 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

74-8D-08 (hex) Apple, Inc.
748D08 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

9C-8B-A0 (hex) Apple, Inc.
9C8BA0 (base 16) Apple, Inc.

1 Infinite Loop
Cupertino CA 95014
US

CC-08-8D (hex) Apple, Inc.
CC088D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

38-A4-ED (hex) Xiaomi Communications Co Ltd
38A4ED (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian
District, Beijing 100085
CN

B8-99-19 (hex) 7signal Solutions, Inc
B89919 (base 16) 7signal Solutions, Inc
526 S. Main Street
Akron OH 44311
US

40-FE-0D (hex) MAXIO
40FE0D (base 16) MAXIO
1101-1 digital empire A, 387 simin-daero dongan-gu
anyang-si kyunggi-do 14057
KR

AC-64-DD (hex) IEEE Registration Authority
AC64DD (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

BC-39-D9 (hex) Z-TEC
BC39D9 (base 16) Z-TEC
Donyu 1 Ro
Paju Kyeongkido 10832
KR

30-87-D9 (hex) Ruckus Wireless
3087D9 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

F0-98-38 (hex) HUAWEI TECHNOLOGIES CO.,LTD

F09838 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

94-B8-19 (hex) Nokia
94B819 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

78-7D-48
(hex) ITEL MOBILE LIMITED
787D48 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

88-71-E5 (hex) Amazon Technologies Inc.
8871E5 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

C0-85-4C (hex) Ragentek Technology Group
C0854C (base 16) Ragentek Technology Group
D10/D11No.3188, Xiupu Road, PuDong District, Shanghai
Shanghai 201315
CN

D8-16-C1 (hex) DEWAV (HK) ELECTRONICS LIMITED
D816C1 (base 16) DEWAV (HK) ELECTRONICS LIMITED
UNIT NO.1-2, 06/F., PERFECT INDUSTRIAL BUILDING,NO. 31 TAI YAU STREET, SAN PO KONG
KOWLOON, HONG KONG 510610
CN

60-EF-C6 (hex) Shenzhen Chima Technologies Co Limited
60EFC6 (base 16) Shenzhen Chima Technologies Co Limited
5F, TongXin Technology Park,HengGang,LongGang,Shenzhen,China
Shenzhen GuangDong 518115
CN

20-DB-AB (hex) Samsung
Electronics Co., Ltd.
20DBAB (base 16) Samsung Electronics Co., Ltd.
416, Maetan-3Dong, Yeongtong-Gu
Suwon Geyonggi-Do 443-742
KR

38-3A-21 (hex) IEEE Registration Authority
383A21 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

D8-38-0D (hex) SHENZHEN IP-COM Network Co.,Ltd
D8380D (base 16) SHENZHEN IP-COM Network Co.,Ltd
No.1001,Zhongshangyuan Road,Nanshan District
Shenzhen Guangdong 518000
CN

FC-CA-C4 (hex) LifeHealth, LLC
FCCAC4 (base 16) LifeHealth, LLC
2656 Patton Rd
Roseville MN 55113
US

88-AD-43 (hex) PEGATRON CORPORATION
88AD43 (base 16) PEGATRON CORPORATION
5F No. 76, Ligong St., Beitou District
Taipei City Taiwan 112
TW

B4-EF-FA (hex) Lemobile Information Technology (Beijing) Co., Ltd.
B4EFFA (base 16) Lemobile Information Technology (Beijing) Co., Ltd.
5/F LeEco Building, 105 Yaojiayuan Road, Chaoyang District
Beijing
Beijing 100025
CN

00-26-5F (hex) Samsung Electronics Co.,Ltd
00265F (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-23-3A (hex) Samsung Electronics Co.,Ltd
00233A (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

10-12-50 (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
101250 (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900

MY

B0-C1-28 (hex) Adler ELREHA GmbH
B0C128 (base 16) Adler ELREHA GmbH
Schwetzinger Str. 103
Hockenheim Baden-Württemberg D-68766
DE

F8-1D-78 (hex) IEEE Registration Authority
F81D78 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

38-F7-B2 (hex) SEOJUN ELECTRIC
38F7B2 (base 16) SEOJUN ELECTRIC
468 Gangseo-ro, 07573, SEOJUN ELECTRIC Ace Techno Tower 805
Seoul 07573
KR

78-02-B7
(hex) ShenZhen Ultra Easy Technology CO.,LTD
7802B7 (base 16) ShenZhen Ultra Easy Technology CO.,LTD
608,Building 2,Guangxingyuan Industrial Park A District,
Baoyuan Rd ShenZhen,Guangdong 518102
CN

64-61-84 (hex) VELUX
646184 (base 16) VELUX
Baekgaardsvej 40
Skjern 6900
DK

F0-D9-B2 (hex) EXO S.A.
F0D9B2 (base 16) EXO S.A.
Av. Chiclana 3444
Buenos Aires 1260
AR

E4-C8-01 (hex) BLU Products Inc
E4C801 (base 16) BLU Products Inc
10814 NW 33rd Street
Miami FL 33172
US

00-1F-C6 (hex) ASUSTek COMPUTER INC.
001FC6 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd.,Peitou,Taipei 112 ,Taiwan

Taipei Taiwan 112
TW

6C-71-BD (hex) EZELINK TELECOM
6C71BD (base 16) EZELINK TELECOM
Bay Square Building 06 - Office No 105
Dubai Dubai 111581
AE

00-07-AB (hex) Samsung Electronics Co.,Ltd
0007AB (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi
Gyeongbuk 730-350
KR

E8-E5-D6 (hex) Samsung Electronics Co.,Ltd
E8E5D6 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C8-7E-75 (hex) Samsung Electronics Co.,Ltd
C87E75 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

EC-65-CC (hex) Panasonic Automotive Systems Company of America
EC65CC (base 16) Panasonic Automotive Systems Company of America
776 Highway 74 South
Peachtree City null 30269
US

80-69-1A (hex) Belkin International Inc.
80691A (base 16) Belkin International Inc.
12045 East Waterfront Drive
Playa Vista null 90094
US

B8-07-56 (hex) Cisco Meraki
B80756 (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco null 94158
US

34-56-FE (hex) Cisco Meraki
3456FE (base 16) Cisco Meraki

500 Terry A. Francois Blvd
San Francisco null 94158
US

00-1E-84 (hex) Pika
Technologies Inc.
001E84 (base 16) Pika Technologies Inc.
535 Legget Drive
Ottawa Ontario K2K 3B8
CA

10-DD-B1 (hex) Apple, Inc.
10DDB1 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-23-29 (hex) DDRdrive LLC
002329 (base 16) DDRdrive LLC
384 Madeline CT
Palo Alto CA 94306
US

00-26-AD (hex) Arada Systems, Inc.
0026AD (base 16) Arada Systems, Inc.
1024 Morse Avenue
Sunnyvale CA 94089
US

00-24-86 (hex) DesignArt Networks
002486 (base 16) DesignArt Networks
4 Ha'haroshet St
Ra'anana 43101
IL

00-24-78 (hex) Mag Tech Electronics Co Limited
002478 (base 16) Mag Tech Electronics Co Limited
Flat / Room T78 GOF Bangkok Building
Sheung Wan HK
HK

38-2D-D1 (hex) Samsung Electronics Co.,Ltd
382DD1 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-1B-2C (hex) ATRON electronic GmbH

001B2C
(base 16) ATRON electronic GmbH
Am Ziegelstadel 12 + 14
Markt Schwaben 85570
DE

00-14-27 (hex) JazzMutant
001427 (base 16) JazzMutant
2 allee du Doyen Georges Brus
Pessac 33600
FR

90-34-FC (hex) Hon Hai Precision Ind. Co.,Ltd.
9034FC (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

88-9F-FA (hex) Hon Hai Precision Ind. Co.,Ltd.
889FFA (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

8C-7C-B5 (hex) Hon Hai Precision Ind. Co.,Ltd.
8C7CB5 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

C4-46-19 (hex) Hon Hai Precision Ind. Co.,Ltd.
C44619 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

AC-63-BE (hex) Amazon
Technologies Inc.
AC63BE (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

08-6A-0A (hex) ASKEY COMPUTER CORP
086A0A (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585
TW

98-E7-F4 (hex) Hewlett Packard
98E7F4 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston TX 77070
US

C8-0E-14 (hex) AVM Audiovisuelles Marketing und Computersysteme GmbH
C80E14 (base 16) AVM Audiovisuelles Marketing und Computersysteme GmbH
Alt-Moabit 95
Berlin Berlin 10559
DE

FC-1F-19 (hex) SAMSUNG ELECTRO MECHANICS CO., LTD.
FC1F19 (base 16) SAMSUNG ELECTRO MECHANICS CO., LTD.
314, Maetan3-Dong, Yeongtong-Gu
Suwon 443-743
US

84-0B-2D (hex) SAMSUNG ELECTRO MECHANICS CO., LTD.
840B2D (base 16) SAMSUNG ELECTRO MECHANICS CO., LTD.
314, Maetan3-Dong, Yeongtong-Gu
SUWON KYUNGGI-DO 443-743
KR

20-64-32 (hex) SAMSUNG ELECTRO
MECHANICS CO., LTD.
206432 (base 16) SAMSUNG ELECTRO MECHANICS CO., LTD.
314, Maetan3-Dong, Yeongtong-Gu
Suwon Gyunggi-Do 443-743
KR

00-15-99 (hex) Samsung Electronics Co.,Ltd
001599 (base 16) Samsung Electronics Co.,Ltd
416, Maetan-3Dong, Yeongtong-Gu
Suwon AL 443-742
US

00-12-FB (hex) Samsung Electronics Co.,Ltd
0012FB (base 16) Samsung Electronics Co.,Ltd
416, Maetan-3Dong, Yeongtong-Gu
Suwon-City Gyeonggi-Do 443-742
KR

D0-66-7B (hex) Samsung Electronics Co.,Ltd
D0667B (base 16) Samsung Electronics Co.,Ltd
416, Maetan-3dong, Yeongtong-gu
Suwon Gyeonggi-do 443742

KR

E8-03-9A (hex) Samsung Electronics Co.,Ltd
E8039A (base 16) Samsung Electronics Co.,Ltd
416, Maetan 3Dong, Yeongtong-Gu
Suwon Geyonggi 443742
KR

0C-84-DC (hex) Hon Hai Precision Ind. Co.,Ltd.
0C84DC (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing
401332
CN

1C-66-AA (hex) Samsung Electronics Co.,Ltd
1C66AA (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

14-89-FD (hex) Samsung Electronics Co.,Ltd
1489FD (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

BC-85-1F (hex) Samsung Electronics Co.,Ltd
BC851F (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B8-5E-7B (hex) Samsung Electronics Co.,Ltd
B85E7B (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B4-07-F9 (hex) SAMSUNG ELECTRO MECHANICS CO., LTD.
B407F9 (base 16) SAMSUNG ELECTRO MECHANICS CO., LTD.
Suwon-Si, Gyeonggi_Do, Korea
Suwon Gyeonggi_Do 443-743
KR

00-16-6C (hex) Samsung Electronics Co.,Ltd
00166C (base 16) Samsung Electronics Co.,Ltd
416, Maetan-3Dong,Yeongtong-Gu

Suwon Gyeonggi-Do 443-742
KR

50-63-13
(hex) Hon Hai Precision Ind. Co.,Ltd.
506313 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

60-D8-19 (hex) Hon Hai Precision Ind. Co.,Ltd.
60D819 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

F8-2F-A8 (hex) Hon Hai Precision Ind. Co.,Ltd.
F82FA8 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

00-24-91 (hex) Samsung Electronics Co.,Ltd
002491 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

3C-8B-FE (hex) Samsung Electronics Co.,Ltd
3C8BFE (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D4-E8-B2 (hex) Samsung Electronics Co.,Ltd
D4E8B2 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk
730-350
KR

00-23-39 (hex) Samsung Electronics Co.,Ltd
002339 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

30-CD-A7 (hex) Samsung Electronics Co.,Ltd

30CDA7 (base 16) Samsung Electronics Co.,Ltd
416 MAETAN 3-DONG
SUWON- SI 443-742
US

00-12-47 (hex) Samsung Electronics Co.,Ltd
001247 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi-City Gyeong-Buk 730-350
KR

00-15-B9 (hex) Samsung Electronics Co.,Ltd
0015B9 (base 16) Samsung Electronics Co.,Ltd
#94-1
Gumi-City Gyeong-Buk 730-350
KR

50-01-BB (hex) Samsung Electronics Co.,Ltd
5001BB (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

2C-44-01 (hex) Samsung Electronics Co.,Ltd
2C4401 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B8-D9-CE (hex) Samsung Electronics Co.,Ltd
B8D9CE
(base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C4-01-42 (hex) MaxMedia Technology Limited
C40142 (base 16) MaxMedia Technology Limited
5F, No. 113, Jian 2nd Rd. Jhonghe District.
New Taipei City 23585
TW

84-30-E5 (hex) SkyHawke Technologies, LLC
8430E5 (base 16) SkyHawke Technologies, LLC
274 Commerce Park Dr, Ste M
Ridgeland MS 39157
US

1C-77-F6 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
1C77F6 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

58-E3-26 (hex) Compass Technologies Inc.
58E326 (base 16) Compass Technologies Inc.
Unit 1012 C-dong, Woolim Lion's Valley
Seoul Seoul 153-786
KR

00-1B-2A (hex) Cisco Systems, Inc
001B2A (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

74-9D-DC (hex) 2Wire Inc
749DDC (base
16) 2Wire Inc
1764 Automation Parkway
San Jose 95131
US

9C-B2-B2 (hex) HUAWEI TECHNOLOGIES CO.,LTD
9CB2B2 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A8-C8-3A (hex) HUAWEI TECHNOLOGIES CO.,LTD
A8C83A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

14-DD-E5 (hex) MPMKVVCL
14DDE5 (base 16) MPMKVVCL
NISHTHA PARISAR, GOVINDPURA
BHOPAL MADHYA PRADESH 462023
IN

00-1A-09 (hex) Wayfarer Transit Systems Ltd
001A09 (base 16) Wayfarer Transit Systems Ltd
10 Willis Way
Poole Dorset BH15 3SS
GB

C8-BA-94 (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
C8BA94 (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T. Bangsamak
Bangpakong Chachoengsao 24180
TH

84-38-38 (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
843838 (base 16) SAMSUNG
ELECTRO-MECHANICS(THAILAND)
93Moo5T. Bangsamak
Bangpakong Chachoengsao 24180
TH

54-88-0E (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
54880E (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T. Bangsamak
Bangpakong Chachoengsao 24180
TH

F0-25-B7 (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
F025B7 (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T. Bangsamak
Bangpakong Chachoengsao 24180
TH

F0-43-47 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F04347 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E4-92-FB (hex) Samsung Electronics Co.,Ltd
E492FB (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

6C-B7-F4 (hex) Samsung Electronics Co.,Ltd
6CB7F4 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

18-1E-B0 (hex) Samsung Electronics Co.,Ltd
181EB0
(base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong

Gumi Gyeongbuk 730-350
KR

24-7F-20 (hex) Sagemcom Broadband SAS
247F20 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

BC-72-B1 (hex) Samsung Electronics Co.,Ltd
BC72B1 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

78-F7-BE (hex) Samsung Electronics Co.,Ltd
78F7BE (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

68-48-98 (hex) Samsung Electronics Co.,Ltd
684898 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

34-23-BA (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
3423BA (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T. Bangsamak
Bangpakong 24180
US

40-0E-85 (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
400E85 (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T.
Bangsamak
Bangpakong 24180
US

74-23-44 (hex) Xiaomi Communications Co Ltd
742344 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

E0-9D-FA (hex) Wanan Hongsheng Electronic Co.Ltd
E09DFA (base 16) Wanan Hongsheng Electronic Co.Ltd

1st section of industrial pack,Wan'An County,Ji'An City,jiangxi province
Wanan China/jiangxi 343800
CN

00-36-76 (hex) ARRIS Group, Inc.
003676 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

FC-8E-7E (hex) ARRIS Group, Inc.
FC8E7E (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

FC-6F-B7 (hex) ARRIS Group, Inc.
FC6FB7 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

D4-2C-0F (hex) ARRIS Group, Inc.
D42C0F (base 16) ARRIS Group, Inc.
6450 Sequence
Drive
San Diego CA 92121
US

A0-55-DE (hex) ARRIS Group, Inc.
A055DE (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

80-F5-03 (hex) ARRIS Group, Inc.
80F503 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

5C-3C-27 (hex) Samsung Electronics Co.,Ltd
5C3C27 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

44-AA-F5 (hex) ARRIS Group, Inc.

44AAF5 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

70-A8-4C (hex) MONAD., Inc.
70A84C (base 16) MONAD., Inc.
702, Hanlla Sigma Vally, 545, Dunchon-daero, Jungwon-gu
Seongnam-Shi 13215
KR

84-C7-EA (hex) Sony Corporation
84C7EA (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

24-E4-3F (hex) Wenzhou Kunmei Communication Technology Co.,Ltd.
24E43F (base 16) Wenzhou Kunmei Communication
Technology Co.,Ltd.
Baitawang industrial zone,Yueqing,Zhejiang
Yueqing Zhejiang 310025
CN

2C-AC-44 (hex) CONEXTOP
2CAC44 (base 16) CONEXTOP
Room 608, 6/F, Electric Building , High-tech Park , Nanshan
Shenzhen 51800
CN

28-7A-EE (hex) ARRIS Group, Inc.
287AEE (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

A4-82-69 (hex) Datrium, Inc.
A48269 (base 16) Datrium, Inc.
385 Moffett Park Drive
Sunnyvale CA 94089
US

00-25-8B (hex) Mellanox Technologies, Inc.
00258B (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway, Suite 100
Sunnyvale CA 94085
US

00-56-2B (hex) Cisco Systems, Inc
00562B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E8-FD-90 (hex) Turbostor
E8FD90 (base 16) Turbostor
47800 Westinghouse Drive
Fremont CA 94539
US

18-99-F5 (hex) Sichuan Changhong Electric Ltd.
1899F5
(base 16) Sichuan Changhong Electric Ltd.
No.35,East MianXin Road,MianYang,Sichaun,China.
MianYang SiChuan PRC 621000
CN

D0-13-FD (hex) LG Electronics (Mobile Communications)
D013FD (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

BC-64-4B (hex) ARRIS Group, Inc.
BC644B (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

88-79-7E (hex) Motorola Mobility LLC, a Lenovo Company
88797E (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

30-58-90 (hex) Frontier Silicon Ltd
305890 (base 16) Frontier Silicon Ltd
137 Euston Road
London NW12AA
GB

70-8B-CD (hex) ASUSTek COMPUTER INC.
708BCD (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

60-64-05 (hex) Texas Instruments
606405 (base 16) Texas
Instruments
12500 TI Blvd
Dallas TX 75243
US

10-E6-8F (hex) KWANGSUNG ELECTRONICS KOREA CO.,LTD.
10E68F (base 16) KWANGSUNG ELECTRONICS KOREA CO.,LTD.
356-3, Gongdan-ro
Gunpo-si Gyeonggi-do 15808
KR

4C-FA-CA (hex) Cambridge Industries(Group) Co.,Ltd.
4CFACA (base 16) Cambridge Industries(Group) Co.,Ltd.
5/F,Building 8, 2388 ChenHang Road, MinHang District
shanghai 201114
CN

00-25-C3 (hex) 21168
0025C3 (base 16) 21168
CARRETERA BASE AEREA # 5850
Zapopan Jalisco 44130
MX

00-0F-57 (hex) CABLELOGIC Co., Ltd.
000F57 (base 16) CABLELOGIC Co., Ltd.
3F., Hwain Bldg., 1559-12 Seocho 3-dong,
Seoul 137-873
KR

00-03-42 (hex) Nortel Networks
000342 (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-12-83 (hex) Nortel Networks
001283 (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-11-F9 (hex) Nortel Networks
0011F9
(base 16) Nortel Networks
8200 Dixie Rd

Brampton Ontario 0000
CA

00-11-58 (hex) Nortel Networks
001158 (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-0F-6A (hex) Nortel Networks
000F6A (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-0E-62 (hex) Nortel Networks
000E62 (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-0C-F8 (hex) Nortel Networks
000CF8 (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-09-97 (hex) Nortel Networks
000997 (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-1C-EB (hex) Nortel Networks
001CEB (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-1C-17 (hex) Nortel Networks
001C17 (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

18-AB-F5 (hex) Ultra
Electronics Electrics
18ABF5 (base 16) Ultra Electronics Electrics

Kingsditch Lane
Cheltenham Gloucestershire GL51 9PG
GB

B0-3E-B0 (hex) MICRODIA Ltd.
B03EB0 (base 16) MICRODIA Ltd.
Suites 1608-1610, 16/F., Prosperity Centre, 25 Chong Yip Street,
Kwun Tong Kowloon, 000000
HK

00-15-91 (hex) RLW Inc.
001591 (base 16) RLW Inc.
2029 Cato Ave.
State College PA 16801
US

00-18-2E (hex) XStreamHD
00182E (base 16) XStreamHD
7900B Westpark Drive
McLean VA 22102
US

00-1A-8F (hex) Nortel Networks
001A8F (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-17-D1 (hex) Nortel Networks
0017D1 (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-14-C7 (hex) Nortel Networks
0014C7 (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-1D-AF (hex) Nortel Networks
001DAF (base 16) Nortel Networks
8200
Dixie Rd
Brampton Ontario 0000
CA

00-26-F1 (hex) ProCurve Networking by HP

0026F1 (base 16) ProCurve Networking by HP
60 Alexandra Terrace
0000 118502
SG

38-0D-D4 (hex) Primax Electronics Ltd.
380DD4 (base 16) Primax Electronics Ltd.
8F,No. 669, Ruey Kuang Road, Neihu
Taipei 114
TW

98-FD-B4 (hex) Primax Electronics Ltd.
98FDB4 (base 16) Primax Electronics Ltd.
No. 669, Ruey Kuang Road, Neihu
Taipei Taiwan, R.O.C.
TW

D8-C4-6A (hex) Murata Manufacturing Co., Ltd.
D8C46A (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

88-83-22 (hex) Samsung Electronics Co.,Ltd
888322 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

E8-93-09 (hex) Samsung Electronics Co.,Ltd
E89309 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

98-2F-3C
(hex) Sichuan Changhong Electric Ltd.
982F3C (base 16) Sichuan Changhong Electric Ltd.
35 East Mianxing Road,High-Tech Park,
MianYang SiChuan 621000
CN

D8-FB-68 (hex) Cloud Corner Ltd.
D8FB68 (base 16) Cloud Corner Ltd.
Cloud Corner Smart Bldg, Mei Ju Center NO.39 Dongcheng South Road
Dong Guan Guang Dong 523129
CN

68-53-88 (hex) P&S Technology
685388 (base 16) P&S Technology
216 Deajiro
Yongin-si Gyeonggi-do 448-813
KR

14-C1-FF (hex) ShenZhen QianHai Comlan communication Co.,LTD
14C1FF (base 16) ShenZhen QianHai Comlan communication Co.,LTD
Shenzhen Nanshan district keyuan road Dongfang science and technology building, room 2407.
ShenZhen GuangDong 518000
CN

00-04-17 (hex) ELAU AG
000417 (base 16) ELAU AG
Dillberg 12

DE

EC-FA-AA (hex) The IMS Company
ECFAAA (base 16) The IMS Company
2929 E. Imperial Highway
Brea CA 92821
US

F0-07-86 (hex) Shandong
Bittel Electronics Co., Ltd
F00786 (base 16) Shandong Bittel Electronics Co., Ltd
No.1 Rizhao North Road
Rizhao Shandong 276800
CN

00-D0-F6 (hex) Nokia
00D0F6 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

44-33-4C (hex) Shenzhen Bilian electronic CO.,LTD
44334C (base 16) Shenzhen Bilian electronic CO.,LTD
NO 268
Shenzhen Guangdong 518110
CN

AC-A2-13 (hex) Shenzhen Bilian electronic CO.,LTD
ACA213 (base 16) Shenzhen Bilian electronic CO.,LTD
NO 268Fuqian Rd,Jutang Community
shenzhen guangdong 518110
CN

3C-33-00 (hex) Shenzhen Bilian electronic CO.,LTD
3C3300 (base 16) Shenzhen Bilian electronic CO.,LTD
NO 268Fuqian Rd,Jutang Community,Guanlan town , LongHua new district
Shenzhen Guangdong 518110
CN

54-A6-19 (hex) Alcatel-Lucent Shanghai Bell Co., Ltd
54A619 (base 16) Alcatel-Lucent Shanghai Bell Co., Ltd
No. 389, Ningqiao Road, Pudong Jinqiao
Shanghai
201206
CN

00-21-05 (hex) Alcatel-Lucent IPD
002105 (base 16) Alcatel-Lucent IPD
701 E. Middlefield Rd.
Mountain View CA 94043
US

38-F8-CA (hex) OWIN Inc.
38F8CA (base 16) OWIN Inc.
Chosunref 5fl,577,Seolleung-ro,Gangnam-gu
Seoul 682-20
KR

E4-17-D8 (hex) 8BITDO TECHNOLOGY HK LIMITED
E417D8 (base 16) 8BITDO TECHNOLOGY HK LIMITED
Rooms 1318-19, 13/F, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hong Kong
Hong Kong Hong Kong 000000
CN

20-57-AF (hex) Shenzhen FH-NET OPTOELECTRONICS CO.,LTD
2057AF (base 16) Shenzhen FH-NET OPTOELECTRONICS CO.,LTD
5/F Building D1 TCL International E City NO.1001 Zhong shan yuan Rd, Nanshan District Shenzhen china
Shenzhen GuangDong 518055
CN

54-DC-1D (hex) Yulong Computer Telecommunication Scientific (Shenzhen) Co.,Ltd
54DC1D (base 16) Yulong Computer Telecommunication Scientific (Shenzhen) Co.,Ltd
Road NO2, West of Industrial
Park,North of Science & Technology Park
Dongguan Guangdong 518057
CN

88-2B-D7 (hex) ADDÉNERGIE TECHNOLOGIES
882BD7 (base 16) ADDÉNERGIE TECHNOLOGIES
533 avenue de la montagne LOCAL 121

Shawinigan Quebec G9N 0A3
CA

00-90-CC (hex) PLANEX COMMUNICATIONS INC.
0090CC (base 16) PLANEX COMMUNICATIONS INC.
2F FENISSAY Ebisu Bldg
Shibuya-ku, Tokyo 150-0011
JP

00-22-CF (hex) PLANEX COMMUNICATIONS INC.
0022CF (base 16) PLANEX COMMUNICATIONS INC.
2F F NISSAY Ebisu Bldg3-16-3
Shibuya-ku Tokyo 150-0011
JP

78-C3-E9 (hex) Samsung Electronics Co.,Ltd
78C3E9 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

8C-1A-BF (hex) Samsung Electronics Co.,Ltd
8C1ABF (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

30-CB-F8 (hex) Samsung Electronics Co.,Ltd
30CBF8 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi
Gyeongbuk 730-350
KR

A0-CB-FD (hex) Samsung Electronics Co.,Ltd
A0CBFD (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C0-E4-2D (hex) TP-LINK TECHNOLOGIES CO.,LTD.
C0E42D (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

8C-A6-DF (hex) TP-LINK TECHNOLOGIES CO.,LTD.
8CA6DF (base 16) TP-LINK TECHNOLOGIES CO.,LTD.

Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

84-16-F9 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
8416F9 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

18-D6-C7 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
18D6C7 (base
16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

6C-D0-32 (hex) LG Electronics
6CD032 (base 16) LG Electronics
16, Woomyeon-dong, Seocho-gu
Seoul 137-724
KR

34-4D-F7 (hex) LG Electronics (Mobile Communications)
344DF7 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

58-3F-54 (hex) LG Electronics (Mobile Communications)
583F54 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

88-A6-C6 (hex) Sagemcom Broadband SAS
88A6C6 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

94-D4-69 (hex) Cisco Systems, Inc
94D469 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

9C-D3-32

(hex) PLC Technology Ltd
9CD332 (base 16) PLC Technology Ltd
Nauchny proezd, 17
Moscow Select State 117246
RU

74-A7-22 (hex) LG Electronics (Mobile Communications)
74A722 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

F0-1C-13 (hex) LG Electronics (Mobile Communications)
F01C13 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

A8-16-B2 (hex) LG Electronics (Mobile Communications)
A816B2 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

64-BC-0C (hex) LG Electronics (Mobile Communications)
64BC0C (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

64-89-9A (hex) LG Electronics (Mobile Communications)
64899A (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong,
Geumcheon-gu
Seoul 153-801
KR

F8-A9-D0 (hex) LG Electronics (Mobile Communications)
F8A9D0 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

CC-FA-00 (hex) LG Electronics (Mobile Communications)
CCFA00 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

00-1B-C5 (hex) IEEE Registration Authority
001BC5 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

48-DF-37 (hex) Hewlett Packard Enterprise
48DF37 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

00-00-31 (hex) QPSX COMMUNICATIONS, LTD.
000031 (base 16) QPSX COMMUNICATIONS, LTD.
33 RICHARDSON STREET
Western 00000
AU

00-0E-1E (hex) QLogic Corporation
000E1E (base 16) QLogic Corporation
26650 Aliso Viejo Parkway
Aliso Viejo CA 92656
US

E4-5D-75
(hex) Samsung Electronics Co.,Ltd
E45D75 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

90-C6-82 (hex) IEEE Registration Authority
90C682 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

00-50-56 (hex) VMware, Inc.
005056 (base 16) VMware, Inc.
3401 Hillview Avenue
PALO ALTO CA 94304
US

CC-52-AF (hex) Universal Global Scientific Industrial Co., Ltd.
CC52AF (base 16) Universal Global Scientific Industrial Co., Ltd.
141, LANE 351, TAIPING RD.
nan tou NAN-TOU 542

TW

C0-1A-DA (hex) Apple, Inc.
C01ADA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-12-1C (hex) PARROT SA
00121C (base 16) PARROT SA
174 Quai de Jemmapes
Paris 75010
FR

90-03-B7 (hex) PARROT SA
9003B7 (base 16) PARROT SA
174 Quai de Jemmapes
Paris 75010
FR

58-FC-DB (hex) IEEE Registration
Authority
58FCDB (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

B0-C5-CA (hex) IEEE Registration Authority
B0C5CA (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

74-19-F8 (hex) IEEE Registration Authority
7419F8 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

00-14-D1 (hex) TRENDnet, Inc.
0014D1 (base 16) TRENDnet, Inc.
20675 Manhattan Place
Torrance CA 90501
US

00-1C-14 (hex) VMware, Inc.
001C14 (base 16) VMware, Inc.
3401 Hillview Avenue

Palo Alto CA 94304
US

38-A2-8C (hex) SHENZHEN RF-LINK TECHNOLOGY CO.,LTD.
38A28C (base 16) SHENZHEN RF-LINK TECHNOLOGY CO.,LTD.
Bldg56A,6/F,Baotian Rd3,Xixiang Town,Baoan District,
Shenzhen Guangdong 518000
CN

A0-9E-1A (hex) Polar Electro Oy
A09E1A (base 16) Polar Electro Oy
Professorintie 5
Kempele Oulu 90440
FI

B4-A5-EF
(hex) Sercomm Corporation.
B4A5EF (base 16) Sercomm Corporation.
3F,No.81,Yu-Yih Rd.,Chu-Nan Chen
Miao-Lih Hsuan 115
TW

00-10-C1 (hex) OI ELECTRIC CO.,LTD
0010C1 (base 16) OI ELECTRIC CO.,LTD
7-3-16 KIKUNA
YOKOHAMA KANAGAWA-KEN 222-0011
JP

20-87-56 (hex) SIEMENS AG
208756 (base 16) SIEMENS AG
Oestliche Rheinbrueckenstrasse 50
Karlsruhe Baden-Württemberg 76187
DE

74-B4-72 (hex) CIESSE
74B472 (base 16) CIESSE
Via G. di Vittorio, 66
Rignano Sull'Arno Florence 50067
IT

FC-F1-52 (hex) Sony Corporation
FCF152 (base 16) Sony Corporation
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

30-9B-AD (hex) BBK EDUCATIONAL ELECTRONICS CORP.,LTD.
309BAD (base 16) BBK EDUCATIONAL ELECTRONICS CORP.,LTD.

LiWu INDUSTRIAL PARK,Wusha,Chang'an
Dong Guan Guang Dong 523860
CN

BC-30-7E (hex) Wistron Neweb Corporation
BC307E (base 16) Wistron Neweb Corporation
20
Park Avenue II.
Hsinchu 30808854
TW

BC-30-7D (hex) Wistron Neweb Corporation
BC307D (base 16) Wistron Neweb Corporation
20 Park Avenue II, Hsin Science Park, Hsinchu 308, Taiwan
HsinChu Taiwan 308
TW

48-A9-D2 (hex) Wistron Neweb Corporation
48A9D2 (base 16) Wistron Neweb Corporation
20 Park Avenue II, Hsin Science Park, Hsinchu 308, Taiwan
HsinChu Taiwan 308
TW

80-EA-23 (hex) Wistron Neweb Corporation
80EA23 (base 16) Wistron Neweb Corporation
20 Park Avenue II, Hsin Science Park, Hsinchu 308, Taiwan
HsinChu Taiwan 308
TW

48-3C-0C (hex) HUAWEI TECHNOLOGIES CO.,LTD
483C0C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-27-13 (hex) Universal Global Scientific Industrial Co., Ltd.
002713 (base 16) Universal Global Scientific Industrial Co., Ltd.
141, LANE 351,SEC.1, TAIPING RD.
TSAOTUEN,
NANTOU 54261
TW

00-80-F7 (hex) Zenith Electronics Corporation
0080F7 (base 16) Zenith Electronics Corporation
1000 MILWAUKEE AVENUE
GLENVIEW IL 60025
US

00-1B-B1 (hex) Wistron Neweb Corporation
001BB1 (base 16) Wistron Neweb Corporation
No. 10-1, Li-hsin Road I, Hsinchu Science Park,
Hsinchu 300
TW

68-B3-5E (hex) Shenzhen Neostra Technology Co.Ltd
68B35E (base 16) Shenzhen Neostra Technology Co.Ltd
7th Building,Huaide Cuihai Industrial Park,Fuyong,Shenzhen China
shenzhen 518100
CN

1C-D6-BD (hex) LEEDARSON LIGHTING CO., LTD.
1CD6BD (base 16) LEEDARSON LIGHTING CO., LTD.
No. 1511, 2nd Fanghu North Rd., Huli District
Xiamen Fugian 361010
CN

D0-D9-4F (hex) IEEE Registration Authority
D0D94F (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

84-9D-64 (hex) SMC Corporation
849D64 (base 16) SMC Corporation
4-2-2, Kinunodai
Tsukuba Mirai-shi
Ibaraki-ken 300-2493
JP

00-A0-C5 (hex) Zyxel Communications Corporation
00A0C5 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

50-65-83 (hex) Texas Instruments
506583 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

B0-91-22 (hex) Texas Instruments
B09122 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

FC-F5-28 (hex) Zyxel Communications Corporation
FCF528 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

FC-51-A4 (hex) ARRIS Group, Inc.
FC51A4 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

98-57-D3 (hex) HON HAI-CCPBG PRECISION IND.CO.,LTD.
9857D3 (base 16) HON HAI-CCPBG PRECISION IND.CO.,LTD.
5F, No.9,Li-Hsin Road V,Science Park
Hsinchu 300
TW

24-E2-71 (hex) Qingdao Hisense
Communications Co.,Ltd.
24E271 (base 16) Qingdao Hisense Communications Co.,Ltd.
Qianwangang Road 218
Qingdao Shandong 266510
CN

BC-60-10 (hex) Qingdao Hisense Communications Co.,Ltd.
BC6010 (base 16) Qingdao Hisense Communications Co.,Ltd.
Qianwangang Road 218
Qingdao Shandong 266510
CN

AC-04-81 (hex) Jiangsu Huaxing Electronics Co., Ltd.
AC0481 (base 16) Jiangsu Huaxing Electronics Co., Ltd.
the Industrial concentration zone, Zhiqian town,Jintan distric
Changzhou City Jiangsu Province 213234
CN

98-39-8E (hex) Samsung Electronics Co.,Ltd
98398E (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D0-FC-CC (hex) Samsung Electronics Co.,Ltd
D0FCCC (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350

KR

60-C0-BF (hex) ON Semiconductor
60C0BF (base 16) ON Semiconductor
5005 East McDowell Road
Phoenix AZ 85008
US

40-88-05
(hex) Motorola Mobility LLC, a Lenovo Company
408805 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

00-1E-04 (hex) Hanson Research Corporation
001E04 (base 16) Hanson Research Corporation
9810 Variel Ave.
Chatsworth CA 91311
US

44-D1-FA (hex) Shenzhen Yunlink Technology Co., Ltd
44D1FA (base 16) Shenzhen Yunlink Technology Co., Ltd
Gushu, Xixiang Town, Bao'an District,
Shenzhen City Guangdong Province 518100
CN

F0-F6-44 (hex) Whitesky Science & Technology Co.,Ltd.
F0F644 (base 16) Whitesky Science & Technology Co.,Ltd.
Room301,Building7,NO.6,Lane365
Shanghai 200052
CN

C4-1C-FF (hex) Vizio, Inc
C41CFF (base 16) Vizio, Inc
39 Tesla
Irvine CA 92618
US

7C-6A-F3 (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
7C6AF3 (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase
3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

C0-97-27 (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
C09727 (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)

93Moo5T. Bangsamak SEMTHAI, WELLGROW INDUSTRIAL ESTATE
Bangpakong Chachoengsao 24180
TH

E4-62-51 (hex) HAO CHENG GROUP LIMITED
E46251 (base 16) HAO CHENG GROUP LIMITED
FLAT/RM C, 06/F, BEST-TO-BEST COMMERCIAL CENTRE 32-36 FERRY STREET JORDAN KL
Hong KOng 999077
HK

38-76-D1 (hex) Euronda SpA
3876D1 (base 16) Euronda SpA
Via dell'artigianato, 7
Montecchio Precalcino Italia/Vicenza 36030
IT

DC-29-3A (hex) Shenzhen Nuoshi Technology Co., LTD.
DC293A (base 16) Shenzhen Nuoshi Technology Co., LTD.
Room 7020 of Tian Xia IC Industry Park, Majialong Industrial Zone, YiYuan Road
Nanshan District, Shenzhen Guangdong 518052
CN

40-56-2D (hex) Smartron India Pvt ltd
40562D (base 16) Smartron India Pvt ltd
1st Floor, Kapil Tower, Gachibowli
Hyderabad
Telangana 500032
IN

A0-D3-85 (hex) AUMA Riester GmbH & Co. KG
A0D385 (base 16) AUMA Riester GmbH & Co. KG
Aumastr. 1
Muellheim Baden-Württemberg 79379
DE

14-14-E6 (hex) Ningbo Sanhe Digital Co.,Ltd
1414E6 (base 16) Ningbo Sanhe Digital Co.,Ltd
No.1177 Lingyun Road
ningbo zhejiang 315048
CN

0C-51-01 (hex) Apple, Inc.
0C5101 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

2C-F0-A2 (hex) Apple, Inc.

2CF0A2 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

68-FB-7E (hex) Apple, Inc.
68FB7E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

84-A1-34 (hex) Apple, Inc.
84A134 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

20-F1-7C (hex) HUAWEI TECHNOLOGIES CO.,LTD
20F17C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan
523808
CN

34-6A-C2 (hex) HUAWEI TECHNOLOGIES CO.,LTD
346AC2 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

68-91-D0 (hex) IEEE Registration Authority
6891D0 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

90-4D-4A (hex) Sagemcom Broadband SAS
904D4A (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

04-4E-5A (hex) ARRIS Group, Inc.
044E5A (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

C4-69-3E (hex) Turbulence Design Inc.
C4693E (base 16) Turbulence Design Inc.
1-3-14
Koshigaya-City Saitama 343-0813
JP

00-95-69 (hex) LSD Science and Technology Co.,Ltd.
009569 (base 16) LSD Science and Technology Co.,Ltd.
Lierda Building,No.425 Dengyun Rd.
Hangzhou Zhijiang 310011
CN

B0-CF-4D
(hex) MI-Zone Technology Ireland
B0CF4D (base 16) MI-Zone Technology Ireland
2nd floor,block 10 unit 3
dublin Blanchardstown 15
IE

28-9A-FA (hex) TCT mobile ltd
289AFA (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

00-1A-34 (hex) Konka Group Co., Ltd.
001A34 (base 16) Konka Group Co., Ltd.
Shenzhen Konka R & D Building, 28th floor 15-24
Nanshan District Guangdong 00000
CN

00-11-FC (hex) HARTING Electronics GmbH
0011FC (base 16) HARTING Electronics GmbH
Wilhelm Harting Str. 1
Espelkamp Nordrhein Westfalen D-32339
DE

D8-20-9F (hex) Cubro Acronet GesmbH
D8209F (base 16) Cubro Acronet GesmbH
Geiselberstraße 17 / 6 Floor
Vienna Vienna 1110
AT

8C-77-16 (hex) LONGCHEER TELECOMMUNICATION LIMITED
8C7716 (base 16) LONGCHEER TELECOMMUNICATION LIMITED
Building 1,No.401,Caobao Rd
Shanghai Xuhui District

200233
CN

00-23-89 (hex) Hangzhou H3C Technologies Co., Limited
002389 (base 16) Hangzhou H3C Technologies Co., Limited
Oriental Electronics Bldg., #2, Chuangye RoadÃ‚Â£Ã‚Â¬Shangdi Information Industry Base,
Beijing 100085
US

3C-E5-A6 (hex) Hangzhou H3C Technologies Co., Limited
3CE5A6 (base 16) Hangzhou H3C Technologies Co., Limited
Oriental Electronic Bld., NO.2,Chuangye Road
Beijing 100085
CN

5C-DD-70 (hex) Hangzhou H3C Technologies Co., Limited
5CDD70 (base 16) Hangzhou H3C Technologies Co., Limited
310 Liuhe Road, Zhijiang Science Park
Hangzhou Zhejiang, 310053
CN

3C-8C-40 (hex) Hangzhou H3C Technologies Co., Limited
3C8C40 (base 16) Hangzhou H3C Technologies Co., Limited
466 Changhe Road, Binjiang District,
Hangzhou Zhejiang, P.R.China 310052
CN

E0-4F-43 (hex) Universal Global Scientific Industrial Co., Ltd.
E04F43 (base 16) Universal Global Scientific Industrial Co., Ltd.
141,
Lane 351, Taiping Road, Sec.1,Tsao Tuen
Nan-Tou Taiwan 54261
TW

38-70-0C (hex) ARRIS Group, Inc.
38700C (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

A0-67-BE (hex) Sicon srl
A067BE (base 16) Sicon srl
Via Sila 1/3
Isola Vicentina Vicenza 36033
IT

00-25-82 (hex) Maksat Technologies (P) Ltd
002582 (base 16) Maksat Technologies (P) Ltd

D-10/6, Okhla, Phase-I
New Delhi 110020
IN

6C-24-83 (hex) Microsoft Mobile Oy
6C2483 (base 16) Microsoft Mobile Oy
Keilalahdentie 4
Espoo 02150
FI

48-C0-49 (hex) Broad Telecom SA
48C049 (base 16) Broad Telecom SA
c/ Margarita Salas, 22
Leganes Madrid 28918
ES

AC-6F-BB (hex) TATUNG Technology Inc.
AC6FBB (base 16) TATUNG Technology Inc.
22, Chungshan N. Rd., 3rd Sec.,
Taipei 104
TW

00-1C-41 (hex) scemtec Transponder Technology GmbH
001C41 (base 16) scemtec Transponder
Technology GmbH
Wehrstr. 1
Gummersbach NRW 51645
DE

14-63-08 (hex) JABIL CIRCUIT (SHANGHAI) LTD.
146308 (base 16) JABIL CIRCUIT (SHANGHAI) LTD.
FL5-UNIT A2 NO. 1528 GUMEI ROAD
SHANGHAI 200233
CN

00-1E-25 (hex) INTEK DIGITAL
001E25 (base 16) INTEK DIGITAL
1101, 11th Fl., Anyang K-center building, 1591-9
Anyang Gyeonggi-do 431-815
KR

00-E0-CF (hex) INTEGRATED DEVICE
00E0CF (base 16) INTEGRATED DEVICE
6024 Silver Creek Valley Road
San Jose CA 95138
US

00-60-B1 (hex) Input/Output, Inc.

0060B1 (base 16) Input/Output, Inc.
12300 PARC CREST DRIVE
STAFFORD TX 77477-2416
US

54-7F-54 (hex) INGENICO
547F54 (base 16) INGENICO
9, avenue de la gare - BP 25156
Valence cedex 9 26958
FR

90-C7-D8 (hex) zte corporation
90C7D8 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

00-1C-D7 (hex) Harman/Becker
Automotive Systems GmbH
001CD7 (base 16) Harman/Becker Automotive Systems GmbH
Becker-Göring-Straße 16
Karlsbad Baden-Württemberg 76307
DE

00-3A-7D (hex) Cisco Systems, Inc
003A7D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1A-45 (hex) GN Netcom A/S
001A45 (base 16) GN Netcom A/S
Metalbuen 66
Ballerup Skovlunde DK - 2750
DK

00-20-88 (hex) GLOBAL VILLAGE COMMUNICATION
002088 (base 16) GLOBAL VILLAGE COMMUNICATION
1144 EAST ARQUES AVENUE
SUNNYVALE CA 94086
US

84-40-76 (hex) Drivenets
844076 (base 16) Drivenets
4 ashizaf
Raanana 4366411
IL

00-19-21 (hex) Elitegroup Computer Systems Co.,Ltd.
001921 (base 16) Elitegroup Computer Systems Co.,Ltd.
No.22,Alley 38,Lane 91, Sec. 1,Nei Hu Road.
Taipei 114
TW

00-16-EC (hex) Elitegroup Computer Systems Co.,Ltd.
0016EC (base 16) Elitegroup Computer Systems Co.,Ltd.
No.
22, Alley 38, Lane 91, Sec. 1, Nei Hu Road,
Taipei 11441
TW

00-07-95 (hex) Elitegroup Computer Systems Co.,Ltd.
000795 (base 16) Elitegroup Computer Systems Co.,Ltd.
No. 22, Alley 38, Lane 91,
Taipei 114
TW

54-13-79 (hex) Hon Hai Precision Ind. Co.,Ltd.
541379 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

00-0E-2E (hex) Edimax Technology Co. Ltd.
000E2E (base 16) Edimax Technology Co. Ltd.
No. 278, Xinhu 1st Road
Taipei City Neihu Dist 248
TW

00-06-5F (hex) ECI Telecom Ltd.
00065F (base 16) ECI Telecom Ltd.
30 Hasivim St.
hasivivm 53188
IL

00-20-8F (hex) ECI Telecom Ltd.
00208F (base 16) ECI Telecom Ltd.
HASIVIM ST. 30,
PETACH-TIKVA 49133 49133
IL

DC-9C-9F (hex) Shenzhen YOUHUA Technology Co., Ltd
DC9C9F (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town
Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055

CN

74-DF-BF (hex) Liteon Technology Corporation
74DFBF (base 16) Liteon Technology Corporation
7F, Bldg, C, 90, Chien 1 Road
Taipei Taiwan 23585
TW

84-AD-58 (hex) HUAWEI TECHNOLOGIES CO.,LTD
84AD58 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

58-60-5F (hex) HUAWEI TECHNOLOGIES CO.,LTD
58605F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D8-D7-23 (hex) IDS, Inc
D8D723 (base 16) IDS, Inc
6801 15 Mile Rd.
Sterling Heights MI 48312
US

F0-3E-90 (hex) Ruckus Wireless
F03E90 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

00-A0-F4 (hex) GE
00A0F4 (base 16) GE
W-657
WAUKESHA WI 53188
US

00-18-5C
(hex) EDSLAB Technologies
00185C (base 16) EDSLAB Technologies
20 Ayer Rajah Crescent
Crescent 139964
SG

FC-0F-4B (hex) Texas Instruments
FC0F4B (base 16) Texas Instruments
12500 TI Blvd

Dallas TX 75243
US

D4-88-3F (hex) HDPRO CO., LTD.
D4883F (base 16) HDPRO CO., LTD.
HDPRO Bldg. 23, 362 Beon-gil, Shinheung-ro, Ojeong-gu
Bucheon-City Gyunggi-Do 14491
KR

AC-0D-1B (hex) LG Electronics (Mobile Communications)
AC0D1B (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

F0-D1-B8 (hex) LEDVANCE
F0D1B8 (base 16) LEDVANCE
200 Ballardvale St
Wilmington MA 01887
US

98-6D-35 (hex) IEEE Registration Authority
986D35 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

88-79-5B (hex) Konka Group Co., Ltd.
88795B (base 16) Konka Group Co., Ltd.
Shenzhen Konka R & D Building, 28th
floor 15-24
Nanshan District Guangdong 00000
CN

08-1F-71 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
081F71 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

5C-CA-1A (hex) Microsoft Mobile Oy
5CCA1A (base 16) Microsoft Mobile Oy
Keilalahdentie 4
Espoo 02150
FI

60-B6-17 (hex) Fiberhome Telecommunication Technologies Co.,LTD
60B617 (base 16) Fiberhome Telecommunication Technologies Co.,LTD

No.5 DongXin Road
Wuhan City Hubei Province 430074
CN

18-A3-E8 (hex) Fiberhome Telecommunication Technologies Co.,LTD
18A3E8 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan City Hubei Province 430074
CN

74-1E-93 (hex) Fiberhome Telecommunication Technologies Co.,LTD
741E93 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin
Road
Wuhan City Hubei Province 430074
CN

FC-2F-AA (hex) Nokia
FC2FAA (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

B0-7E-70 (hex) Zadara Storage Ltd.
B07E70 (base 16) Zadara Storage Ltd.
6 Venture, Suite 140
Irvine CA 92618
US

00-80-B1 (hex) SOFTCOM A/S
0080B1 (base 16) SOFTCOM A/S
STUDIESTRAEDE 21

DK

20-2D-F8 (hex) Digital Media Cartridge Ltd.
202DF8 (base 16) Digital Media Cartridge Ltd.
5F-3, No. 9, Ln 3, Jihu Rd, Neihu
Taipei 11492
TW

10-D0-AB (hex) zte corporation
10D0AB (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

00-04-C6 (hex) YAMAHA MOTOR CO.,LTD

0004C6 (base 16) YAMAHA MOTOR CO.,LTD
Information System Division
Japan Zip: 438-8501
JP

20-2D-07 (hex) Samsung Electronics Co.,Ltd
202D07 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi
Gyeongbuk 730-350
KR

98-1F-B1 (hex) Shenzhen Lemon Network Technology Co.,Ltd
981FB1 (base 16) Shenzhen Lemon Network Technology Co.,Ltd
Changhong Technology Building 1710-11,South NO.12 Road,Nanshan Technology Park,Nanshan District,Shenzhen,China.
shenzhen 518100
CN

0C-5A-9E (hex) Wi-SUN Alliance
0C5A9E (base 16) Wi-SUN Alliance
275 Tennant Avenue, Suite 202
Morgan Hill CA 95037
US

E8-B2-AC (hex) Apple, Inc.
E8B2AC (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E4-9A-79 (hex) Apple, Inc.
E49A79 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B4-4B-D2 (hex) Apple, Inc.
B44BD2 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

DC-41-5F (hex) Apple, Inc.
DC415F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

64-12-25 (hex) Cisco Systems, Inc
641225 (base 16) Cisco Systems, Inc
170
West Tasman Drive
San Jose CA 95134
US

78-64-E6 (hex) Green Motive Technology Limited
7864E6 (base 16) Green Motive Technology Limited
Room 1106,11 FloorThe XinYuan Square, No 418 Gui ping Road
shanghai shanghai 20233
CN

3C-BE-E1 (hex) NIKON CORPORATION
3CBEE1 (base 16) NIKON CORPORATION
Shinagawa Intercity Tower C, 2-15-3, Konan
Minato-ku Tokyo 108-6290
JP

D8-80-3C (hex) Anhui Huami Information Technology Company Limited
D8803C (base 16) Anhui Huami Information Technology Company Limited
Building A4, 12th Floor, No. 800, Wangjiang Road
Hefei Anhui 230088
CN

00-34-DA (hex) LG Electronics (Mobile Communications)
0034DA (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

38-10-D5 (hex) AVM Audiovisuelles Marketing und Computersysteme GmbH
3810D5 (base 16) AVM Audiovisuelles Marketing und Computersysteme GmbH
Alt-Moabit 95
Berlin
Berlin 10559
DE

00-60-16 (hex) CLARIION
006016 (base 16) CLARIION
COSLIN DRIVE
SOUTHBORO MA 01772
US

00-C8-8B (hex) Cisco Systems, Inc
00C88B (base 16) Cisco Systems, Inc
80 West Tasman Drive

San Jose CA 94568
US

18-C5-01 (hex) SHENZHEN GONGJIN ELECTRONICS CO.,LT
18C501 (base 16) SHENZHEN GONGJIN ELECTRONICS CO.,LT
SONGGANG
SHENZHEN GUANGDONG 518105
CN

00-A0-B8 (hex) NetApp
00A0B8 (base 16) NetApp
1395 Crossman Ave
Sunnyvale, CA 94089
US

10-2A-B3 (hex) Xiaomi Communications Co Ltd
102AB3 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

40-D3-57 (hex) Ison Technology Co., Ltd.
40D357 (base 16) Ison Technology Co., Ltd.
Room 6, 20F, No. 77, section 1, Xintai 5th Rd. Xizhi District
New Taipei City Taiwan 22101
TW

A0-B9-ED (hex) Skytap
A0B9ED
(base 16) Skytap
710 2nd Ave Suite 1130
Seattle WA 98104
US

00-09-D2 (hex) Mai Logic Inc.
0009D2 (base 16) Mai Logic Inc.
47697 Westinghouse Dr., Suite 200
Fremont CA 94539
US

24-C3-F9 (hex) Securitas Direct AB
24C3F9 (base 16) Securitas Direct AB
Angbatsbron 1
Malmö 21120
SE

2C-21-D7 (hex) IMAX Corporation
2C21D7 (base 16) IMAX Corporation

2525 Speakman Drive
Mississauga Ontario L5K 1B1
CA

30-A9-DE (hex) LG Innotek
30A9DE (base 16) LG Innotek
26, Hanamsandan 5beon-ro
Gwangju Gwangsan-gu 506-731
KR

F0-1B-6C (hex) vivo Mobile Communication Co., Ltd.
F01B6C (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

20-76-8F (hex) Apple, Inc.
20768F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

9C-5C-F9 (hex) Sony Corporation
9C5CF9 (base 16) Sony Corporation
1-7-1
Konan Minato-ku
Tokyo 108-0075
JP

00-11-D1 (hex) Soft Imaging System GmbH
0011D1 (base 16) Soft Imaging System GmbH
Johann-Krane-Weg 39
Muenster 48149
DE

74-C3-30 (hex) SHENZHEN FAST TECHNOLOGIES CO.,LTD
74C330 (base 16) SHENZHEN FAST TECHNOLOGIES CO.,LTD
Room 202,Building No.5,Section 30,No.2 of Kefa Road,Nanshan District,Shenzhen,P.R.China
Shenzhen Guangdong 518057
CN

98-D6-86 (hex) Chyi Lee industry Co., ltd.
98D686 (base 16) Chyi Lee industry Co., ltd.
No.25, Wufu Rd., Xinying Dist.
Tainan city 73054
TW

8C-C6-61 (hex) Current, powered by GE

8CC661 (base 16) Current, powered by GE
1975 Noble Road B335C
East Cleveland OH 44112
US

88-A0-84 (hex) Formation Data Systems
88A084 (base 16) Formation Data Systems
39141 Civic Center Drive, Suite 410
Fremont CA 94538
US

94-C9-60 (hex) Zhongshan B&T technology.co.,ltd
94C960 (base 16) Zhongshan B&T technology.co.,ltd
Floor3-4,Block
A,Dong Fang Industrial park,Da che country,Nan Lang District
Zhong Shan City Guang Dong Province 528451
CN

A4-15-88 (hex) ARRIS Group, Inc.
A41588 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

F4-5C-89 (hex) Apple, Inc.
F45C89 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

DC-B3-B4 (hex) Honeywell Environmental & Combustion Controls (Tianjin) Co., Ltd.
DCB3B4 (base 16) Honeywell Environmental & Combustion Controls (Tianjin) Co., Ltd.
158 Nan Hai Road, TEDA
Tianjin 300457
CN

00-24-7C (hex) Nokia Danmark A/S
00247C (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

4C-25-78 (hex) Nokia Corporation
4C2578 (base 16) Nokia Corporation
Joensuunkatu 7
Salo NA 24101
FI

BC-C6-DB (hex) Nokia Corporation
BCC6DB (base 16) Nokia Corporation
Joensuunkatu 7
Salo NA 24101
FI

60-A8-FE
(hex) Nokia Solutions and Networks GmbH & Co. KG
60A8FE (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541
DE

00-1F-DE (hex) Nokia Danmark A/S
001FDE (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-1F-DF (hex) Nokia Danmark A/S
001FDF (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

54-79-75 (hex) Nokia Corporation
547975 (base 16) Nokia Corporation
Joensuunkatu 7E
Salo 24101
FI

A8-7B-39 (hex) Nokia Corporation
A87B39 (base 16) Nokia Corporation
Joensuunkatu 7
Salo Varsinais-Suomi 24101
FI

00-1D-3B (hex) Nokia Danmark A/S
001D3B (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-1D-FD (hex) Nokia Danmark A/S
001DFD (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-1E-3B (hex) Nokia Danmark
A/S
001E3B (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-1E-A4 (hex) Nokia Danmark A/S
001EA4 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-26-CC (hex) Nokia Danmark A/S
0026CC (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-0E-ED (hex) Nokia Danmark A/S
000EED (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-11-9F (hex) Nokia Danmark A/S
00119F (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-1A-16 (hex) Nokia Danmark A/S
001A16 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-1A-89 (hex) Nokia Danmark A/S
001A89 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-1A-DC (hex) Nokia Danmark A/S
001ADC (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790

DK

00-25-CF
(hex) Nokia Danmark A/S
0025CF (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-21-AB (hex) Nokia Danmark A/S
0021AB (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-22-66 (hex) Nokia Danmark A/S
002266 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-21-FE (hex) Nokia Danmark A/S
0021FE (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790V
DK

C4-77-AB (hex) Beijing ASU Tech Co.,Ltd
C477AB (base 16) Beijing ASU Tech Co.,Ltd
15/F, Global Trade Center Tower, No.36, North 3rd Ring Road, Dongcheng District, Beijing, 100013, China
BEI JING BEI JING 100013
CN

30-0D-43 (hex) Microsoft Mobile Oy
300D43 (base 16) Microsoft Mobile Oy
Keilalahdentie 2-4
Espoo N.A. 02150
FI

60-7E-DD (hex) Microsoft Mobile Oy
607EDD (base 16) Microsoft Mobile Oy
Keilalahdentie 4
ESPOO
02150
FI

A8-A0-89 (hex) Tactical Communications
A8A089 (base 16) Tactical Communications

473 Post Street
Camarillo CA 93010
US

48-36-5F (hex) Wintecronics Ltd.
48365F (base 16) Wintecronics Ltd.
Rm. 3, 11F., No.716, Zhongzheng Rd., Zhonghe Dist., New Taipei City 23552, Taiwan (R.O.C.)
New Taipei City 23552
TW

00-0B-CA (hex) DATAVAN TC
000BCA (base 16) DATAVAN TC
4FL,#120-12,Chung Shan Rd, Sec.3
Chung Ho City, Taipei Hsien 235
TW

70-25-59 (hex) CyberTAN Technology Inc.
702559 (base 16) CyberTAN Technology Inc.
99, Park Avenue III, Science-Based Industrial Park
Hsinchu 308
TW

00-1D-20 (hex) Comtrend Corporation
001D20 (base 16) Comtrend Corporation
3F-1, 10 Lane 609, Chongxin Road, Section 5,
New Taipei City, Taiwan 24159
TW

38-94-96 (hex) Samsung Electronics Co.,Ltd
389496 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk
730-350
KR

50-56-BF (hex) Samsung Electronics Co.,Ltd
5056BF (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

90-F1-AA (hex) Samsung Electronics Co.,Ltd
90F1AA (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

10-77-B1 (hex) Samsung Electronics Co.,Ltd

1077B1 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

00-1F-C7 (hex) Casio Hitachi Mobile Communications Co., Ltd.
001FC7 (base 16) Casio Hitachi Mobile Communications Co., Ltd.
2-229-1, Sakuragaoka
Higashiyamato-shi Tokyo 207-8501
JP

00-00-0E (hex) FUJITSU LIMITED
00000E (base 16) FUJITSU LIMITED
403, Kosugi-cho 1-chome, Nakahara-ku
Kawasaki Kanagawa 211-0063
JP

00-0B-5D (hex) FUJITSU LIMITED
000B5D (base 16) FUJITSU LIMITED
403, Kosugi-cho 1-chome, Nakahara-ku
Kawasaki
Kanagawa 211-0063
JP

08-05-81 (hex) Roku, Inc.
080581 (base 16) Roku, Inc.
12980 Saratoga Ave
Saratoga CA 95070
US

74-45-8A (hex) Samsung Electronics Co.,Ltd
74458A (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

FC-C7-34 (hex) Samsung Electronics Co.,Ltd
FCC734 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

84-25-DB (hex) Samsung Electronics Co.,Ltd
8425DB (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B0-EC-71 (hex) Samsung Electronics Co.,Ltd
B0EC71 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

E4-58-B8 (hex) Samsung Electronics Co.,Ltd
E458B8 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

08-8C-2C (hex) Samsung Electronics Co.,Ltd
088C2C (base 16) Samsung Electronics
Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A4-9A-58 (hex) Samsung Electronics Co.,Ltd
A49A58 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

08-EE-8B (hex) Samsung Electronics Co.,Ltd
08EE8B (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

64-B8-53 (hex) Samsung Electronics Co.,Ltd
64B853 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

08-37-3D (hex) Samsung Electronics Co.,Ltd
08373D (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C4-88-E5 (hex) Samsung Electronics Co.,Ltd
C488E5 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

0C-75-BD (hex) Cisco Systems, Inc
0C75BD (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0D-F3 (hex) Asmax
Solutions
000DF3 (base 16) Asmax Solutions
Tatarska 5
Cracow 30-103
PL

00-0D-B6 (hex) Broadcom
000DB6 (base 16) Broadcom
1363 Redwood Way
Petaluma CA 94954
US

00-0A-F7 (hex) Broadcom
000AF7 (base 16) Broadcom
16215 Alton Parkway
Irvine CA 92618
US

D4-01-29 (hex) Broadcom
D40129 (base 16) Broadcom
5300 California Ave.
Irvine CA 92617
US

00-1D-00 (hex) Brivo Systems, LLC
001D00 (base 16) Brivo Systems, LLC
4330 East West Highway
Bethesda MD 20814
US

00-20-D6 (hex) Breezecom, Ltd.
0020D6 (base 16) Breezecom, Ltd.
ATIDIM TECHNOLOGICAL PK-BLDG.3
Tel-aviv 12345
IL

C4-47-3F (hex) HUAWEI TECHNOLOGIES CO.,LTD
C4473F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808

CN

5C-DC-96 (hex) Arcadyan Technology Corporation
5CDC96 (base 16) Arcadyan Technology Corporation
No.8,
Sec.2, Guangfu Rd.,
Hsinchu City 30071, 12345
TW

00-1A-2A (hex) Arcadyan Technology Corporation
001A2A (base 16) Arcadyan Technology Corporation
4F., No. 9 , Park Avenue II,
Hsinchu 300
TW

88-25-2C (hex) Arcadyan Technology Corporation
88252C (base 16) Arcadyan Technology Corporation
4F., NO.9, Park Avenue II ,
Hsinchu 300
TW

1C-C6-3C (hex) Arcadyan Technology Corporation
1CC63C (base 16) Arcadyan Technology Corporation
4F, No. 9, Park Avenue II ,
Hsinchu 300
TW

18-83-BF (hex) Arcadyan Technology Corporation
1883BF (base 16) Arcadyan Technology Corporation
4F, No. 9, Park Avenue II ,
Hsinchu 300
TW

68-ED-43 (hex) BlackBerry RTS
68ED43 (base 16) BlackBerry RTS
451 Phillip Street
Waterloo ON N2L 3X2
CA

70-AA-B2 (hex) BlackBerry RTS
70AAB2 (base 16) BlackBerry RTS
451 Phillip Street
Waterloo ON N2L 3X2
CA

00-E0-63 (hex) Cabletron
Systems, Inc.
00E063 (base 16) Cabletron Systems, Inc.

35 INDUSTRIAL WAY
ROCHESTER NH 03866-5005
US

9C-C7-A6 (hex) AVM GmbH
9CC7A6 (base 16) AVM GmbH
Alt-Moabit 95
berlin Berlin 10559
DE

A0-63-91 (hex) NETGEAR
A06391 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

20-E5-2A (hex) NETGEAR
20E52A (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

44-94-FC (hex) NETGEAR
4494FC (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

E0-91-F5 (hex) NETGEAR
E091F5 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

00-14-6C (hex) NETGEAR
00146C (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

00-1E-2A (hex) NETGEAR
001E2A (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

00-18-4D (hex) NETGEAR
00184D (base 16) NETGEAR

350
East Plumeria Drive
San Jose CA 95134
US

0C-A4-2A (hex) OB Telecom Electronic Technology Co., Ltd
0CA42A (base 16) OB Telecom Electronic Technology Co., Ltd
17/F, Jiangong Building
Hangzhou ZheJiang 310012
CN

20-0C-C8 (hex) NETGEAR
200CC8 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

74-44-01 (hex) NETGEAR
744401 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

00-0F-86 (hex) BlackBerry RTS
000F86 (base 16) BlackBerry RTS
295 Phillip Street
Waterloo Ontario N2L 3W8
CA

E8-39-DF (hex) ASKEY COMPUTER CORP
E839DF (base 16) ASKEY COMPUTER CORP
10F,NO.119,CHIENKANG RD,CHUNG-HO,TAIPEI,
TAIWAN TAIPEI 235
TW

00-24-D2 (hex) ASKEY COMPUTER CORP
0024D2 (base 16) ASKEY COMPUTER CORP
10F,NO.119,CHIENKANG RD,CHUNG-HO,TAIPEI,
TAIWAN TAIPEI 235
TW

B4-EE-B4 (hex) ASKEY COMPUTER CORP
B4EEB4 (base 16) ASKEY COMPUTER CORP
10F,NO.119,CHIENKANG
RD,ZHONGHE DIST NEW TAIPEI CITY
TAIWAN TAIPEI 23585
TW

00-04-0E (hex) AVM GmbH
00040E (base 16) AVM GmbH
Alt-Moabit 95
berlin 12345
DE

40-BA-61 (hex) ARIMA Communications Corp.
40BA61 (base 16) ARIMA Communications Corp.
6F., No.866, Jhongjheng Rd., Jhonghe Dist.
New Taipei City 23586
TW

00-11-F5 (hex) ASKEY COMPUTER CORP
0011F5 (base 16) ASKEY COMPUTER CORP
10F, NO.119, CHIENKANG RD.,
CHUNG-HO, TAIPEI 235
TW

00-16-E3 (hex) ASKEY COMPUTER CORP
0016E3 (base 16) ASKEY COMPUTER CORP
10F, NO.119, CHIENKANG RD.,
CHUNG-HO, TAIPEI 235
TW

00-13-11 (hex) ARRIS Group, Inc.
001311 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

74-56-12 (hex) ARRIS Group, Inc.
745612 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

E4-64-49 (hex) ARRIS Group, Inc.
E46449 (base 16) ARRIS
Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

40-FC-89 (hex) ARRIS Group, Inc.
40FC89 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

2C-9E-5F (hex) ARRIS Group, Inc.
2C9E5F (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1E-5A (hex) ARRIS Group, Inc.
001E5A (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-13-71 (hex) ARRIS Group, Inc.
001371 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-19-A6 (hex) ARRIS Group, Inc.
0019A6 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-23-EE (hex) ARRIS Group, Inc.
0023EE (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1A-DE (hex) ARRIS Group, Inc.
001ADE (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1C-C1
(hex) ARRIS Group, Inc.
001CC1 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-50-E3 (hex) ARRIS Group, Inc.
0050E3 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121

US

7C-BF-B1 (hex) ARRIS Group, Inc.
7CBFB1 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-26-36 (hex) ARRIS Group, Inc.
002636 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-21-36 (hex) ARRIS Group, Inc.
002136 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-16-26 (hex) ARRIS Group, Inc.
001626 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

E8-F7-24 (hex) Hewlett Packard Enterprise
E8F724 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

E8-74-E6 (hex) ADB Broadband Italia
E874E6
(base 16) ADB Broadband Italia
VIALE SARCA 336
MILANO 20126
IT

00-20-E0 (hex) Actiontec Electronics, Inc
0020E0 (base 16) Actiontec Electronics, Inc
3301 Olcott St.
Santa Clara CA 95054
US

00-26-62 (hex) Actiontec Electronics, Inc
002662 (base 16) Actiontec Electronics, Inc
3301 Olcott St.

Santa Clara CA 95054
US

28-0D-FC (hex) Sony Interactive Entertainment Inc.
280DFC (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

70-1A-04 (hex) Liteon Technology Corporation
701A04 (base 16) Liteon Technology Corporation
4F 90 Chien 1 Rd.ChungHo
Taipei 23585
TW

48-D2-24 (hex) Liteon Technology Corporation
48D224 (base 16) Liteon Technology Corporation
4F,90,Chien 1 Road,ChungHo
New Taipei City Taipei 23585
TW

20-68-9D (hex) Liteon Technology Corporation
20689D (base 16) Liteon Technology Corporation
4F,90,Chien 1 Road,ChungHo
New
Taipei City Taipei 23585
TW

D0-DF-9A (hex) Liteon Technology Corporation
D0DF9A (base 16) Liteon Technology Corporation
4F,90,Chien 1 Road,ChungHo,Taipei Hsien,Taiwan,
TaiPei TaiWan 23585
TW

1C-65-9D (hex) Liteon Technology Corporation
1C659D (base 16) Liteon Technology Corporation
4F,90,Chien 1 Road,ChungHo,Taipei Hsien,Taiwan,
TaiPei TaiWan 23585
TW

30-10-B3 (hex) Liteon Technology Corporation
3010B3 (base 16) Liteon Technology Corporation
4F,90,Chien 1 Road, ChungHo, TaiPei Hsien
TaiPei TaiWan 23585
TW

E8-C7-4F (hex) Liteon Technology Corporation
E8C74F (base 16) Liteon Technology Corporation

4F, No. 90, Chien 1 Road,
New Taipei City Taiwan 23585
TW

D0-53-49 (hex) Liteon Technology Corporation
D05349 (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road ChungHo
New Taipei City Taiwan 23585
TW

94-88-15 (hex) Infinique Worldwide Inc
948815
(base 16) Infinique Worldwide Inc
513, 4185 Shipp Drive
Mississauga Ontario L4Z2Y8
CA

D0-E4-4A (hex) Murata Manufacturing Co., Ltd.
D0E44A (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

58-17-0C (hex) Sony Corporation
58170C (base 16) Sony Corporation
4-12-3 Higashi – Shinagawa
Shinagawa-ku Tokyo 140-0002
JP

5C-B5-24 (hex) Sony Corporation
5CB524 (base 16) Sony Corporation
4-12-3 Higashi – Shinagawa
Shinagawa-ku Tokyo 140-0002
JP

90-C1-15 (hex) Sony Corporation
90C115 (base 16) Sony Corporation
4-12-3 Higashi – Shinagawa
Shinagawa-ku Tokyo 140-0002
JP

D0-51-62 (hex) Sony Corporation
D05162 (base 16) Sony Corporation
4-12-3 Higashi – Shinagawa
Shinagawa-ku Tokyo 140-0002
JP

18-00-2D (hex) Sony Corporation

18002D (base 16) Sony Corporation
4-12-3 Higashi – Shinagawa
Shinagawa-ku Tokyo 140-0002
JP

00-16-B8
(hex) Sony Corporation
0016B8 (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

00-24-EF (hex) Sony Corporation
0024EF (base 16) Sony Corporation
4-12-3 Higashi – Shinagawa
Shinagawa-ku Tokyo 140-0002
JP

00-25-E7 (hex) Sony Corporation
0025E7 (base 16) Sony Corporation
4-12-3 Higashi – Shinagawa
Shinagawa-ku Tokyo 140-0002
JP

00-25-53 (hex) ADB Broadband Italia
002553 (base 16) ADB Broadband Italia
VIALE SARCA 222
MILANO 20126
IT

00-19-3E (hex) ADB Broadband Italia
00193E (base 16) ADB Broadband Italia
VIALE SARCA 222
MILANO 20126
IT

00-08-27 (hex) ADB Broadband Italia
000827 (base 16) ADB Broadband Italia
Viale Sarca 222
pisacataway Milano 20126
IT

08-00-46 (hex) Sony Corporation
080046 (base 16) Sony Corporation
Gotenyama Tec, 5-1-2 Kitashinagawa
Tokyo 141-0001
JP

74-DA-EA (hex) Texas
Instruments
74DAEA (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

D8-87-D5 (hex) Leadcore Technology CO.,LTD
D887D5 (base 16) Leadcore Technology CO.,LTD
1258 Mingyue Road,Shanghai.China
shanghai shanghai 201206
CN

00-F2-8B (hex) Cisco Systems, Inc
00F28B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

4C-14-A3 (hex) TCL Technoly Electronics (Huizhou) Co., Ltd.
4C14A3 (base 16) TCL Technoly Electronics (Huizhou) Co., Ltd.
19th Zhongkai Hi-tech Development Zone
Huizhou Guangdong 516006
CN

EC-F0-0E (hex) AboCom
ECF00E (base 16) AboCom
1F , No. 21, Yanfa 2nd Rd., SBIP
Hsinchu City 300 886
TW

00-E0-98 (hex) AboCom
00E098 (base 16) AboCom
12F-3, NO. 333, SEC. 1
HSIN-CHU 12345
TW

4C-B0-E8 (hex) Beijing RongZhi xinghua technology co., LTD
4CB0E8 (base 16) Beijing RongZhi xinghua technology co., LTD
Beijing
haidian district zhongguancun east road No. 18 smartfortune international building, room 909
beijing beijing 100000
CN

9C-4E-36 (hex) Intel Corporate
9C4E36 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000

MY

34-13-E8 (hex) Intel Corporate
3413E8 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

34-E6-AD (hex) Intel Corporate
34E6AD (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

08-11-96 (hex) Intel Corporate
081196 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

74-2F-68 (hex) AzureWave Technology Inc.
742F68 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd., Xindian
Taipei 231
TW

38-4F-F0 (hex) AzureWave Technology Inc.
384FF0 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd
. New Taipei City Taiwan 231
TW

B4-B6-76
(hex) Intel Corporate
B4B676 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

3C-A9-F4 (hex) Intel Corporate
3CA9F4 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

B8-8A-60 (hex) Intel Corporate
B88A60 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3

Kulim Kedah 09000
MY

78-FF-57 (hex) Intel Corporate
78FF57 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

A4-8E-0A (hex) DeLaval International AB
A48E0A (base 16) DeLaval International AB
Gustaf De Lavals väg 15
TUMBA 14721
SE

AC-2B-6E (hex) Intel Corporate
AC2B6E (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

F8-E0-79 (hex) Motorola Mobility LLC, a Lenovo Company
F8E079 (base 16) Motorola Mobility LLC, a Lenovo Company
600 North US Highway 45
Libertyville IL 60048
US

CC-C3-EA
(hex) Motorola Mobility LLC, a Lenovo Company
CCC3EA (base 16) Motorola Mobility LLC, a Lenovo Company
600 North US Highway 45
Libertyville IL 60048
US

40-78-6A (hex) Motorola Mobility LLC, a Lenovo Company
40786A (base 16) Motorola Mobility LLC, a Lenovo Company
222 Merchandise Mart Plaza, Suite 1800
Chicago IL 60654
US

00-0A-8A (hex) Cisco Systems, Inc
000A8A (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

9C-35-83 (hex) Nipro Diagnostics, Inc
9C3583 (base 16) Nipro Diagnostics, Inc

2400 N.W. 55th Court.
Ft. Lauderdale FL 33309
US

C0-61-18 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
C06118 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

00-23-14 (hex) Intel Corporate
002314 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3

Kulim Kedah 09000
MY

34-02-86 (hex) Intel Corporate
340286 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-1C-BF (hex) Intel Corporate
001CBF (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

34-DE-1A (hex) Intel Corporate
34DE1A (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

E8-B1-FC (hex) Intel Corporate
E8B1FC (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

D0-22-12 (hex) IEEE Registration Authority
D02212 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

10-07-23 (hex) IEEE Registration Authority

100723 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

A4-4F-29 (hex) IEEE Registration Authority
A44F29 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

74-F8-DB
(hex) IEEE Registration Authority
74F8DB (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

CC-3D-82 (hex) Intel Corporate
CC3D82 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-1F-3C (hex) Intel Corporate
001F3C (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-23-15 (hex) Intel Corporate
002315 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-16-6F (hex) Intel Corporate
00166F (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-19-D1 (hex) Intel Corporate
0019D1 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-19-D2 (hex) Intel Corporate
0019D2 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-1B-21 (hex) Intel Corporate
001B21
(base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

18-FF-0F (hex) Intel Corporate
18FF0F (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

18-3D-A2 (hex) Intel Corporate
183DA2 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

80-9B-20 (hex) Intel Corporate
809B20 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-27-10 (hex) Intel Corporate
002710 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C0-83-0A (hex) 2Wire Inc
C0830A (base 16) 2Wire Inc
1764 Automation Pkwy
San Jose CA 95131
US

38-3B-C8 (hex) 2Wire Inc
383BC8 (base 16) 2Wire Inc
1764 Automation Parkway
San Jose 95131
US

60-FE-20 (hex) 2Wire Inc
60FE20 (base 16) 2Wire Inc
1764 Automation ParkWay
San Jose CA 95131
US

00-18-3F
(hex) 2Wire Inc
00183F (base 16) 2Wire Inc
1704 Automation Parkway
San Jose CA 94538
US

00-24-56 (hex) 2Wire Inc
002456 (base 16) 2Wire Inc
1764 Automation Parkway
San Jose CA 95131
US

18-01-E3 (hex) Bittium Wireless Ltd
1801E3 (base 16) Bittium Wireless Ltd
Tutkijantie 8
Oulu 50590
FI

18-62-2C (hex) Sagemcom Broadband SAS
18622C (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
RUEIL MALMAISON CEDEX Hauts de Seine 92848
FR

3C-81-D8 (hex) Sagemcom Broadband SAS
3C81D8 (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
RUEIL MALMAISON CEDEX Hauts de Seine 92848
FR

40-F2-01 (hex) Sagemcom Broadband SAS
40F201 (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
Rueil Malmaison HAUTS DE SEINE 92848
FR

D0-84-B0 (hex) Sagemcom Broadband SAS
D084B0 (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
Rueil Malmaison HAUTS

DE SEINE 92848
FR

18-1E-78 (hex) Sagemcom Broadband SAS
181E78 (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
Rueil Malmaison HAUTS DE SEINE 92848
FR

00-37-B7 (hex) Sagemcom Broadband SAS
0037B7 (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
Rueil Malmaison HAUTS DE SEINE 92848
FR

00-54-BD (hex) Swelaser AB
0054BD (base 16) Swelaser AB
Tullgårdsgatan 8
Stockholm 11668
SE

00-1E-4C (hex) Hon Hai Precision Ind. Co.,Ltd.
001E4C (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

D8-54-3A (hex) Texas Instruments
D8543A (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

64-9C-8E (hex) Texas Instruments
649C8E (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

10-2E-AF (hex) Texas Instruments
102EAF (base 16) Texas
Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

7C-8E-E4 (hex) Texas Instruments
7C8EE4 (base 16) Texas Instruments

12500 TI Boulevard, MS 8723
Dallas TX 75243
US

B4-EE-D4 (hex) Texas Instruments
B4EED4 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

14-91-82 (hex) Belkin International Inc.
149182 (base 16) Belkin International Inc.
12045 E. Waterfront Drive
Playa Vista CA 90094
US

20-BB-76 (hex) COL GIOVANNI PAOLO SpA
20BB76 (base 16) COL GIOVANNI PAOLO SpA
Via F.lli Ceirano n. 20
Moncalieri TORINO 10024
IT

3C-DD-89 (hex) SOMO HOLDINGS & TECH. CO.,LTD.
3CDD89 (base 16) SOMO HOLDINGS & TECH. CO.,LTD.
6, Mujeonggonddan-Gil
Damyang-Gun Jellanam-Do 57360
KR

38-86-02 (hex) Flexoptix GmbH
388602 (base 16) Flexoptix GmbH
Muehltalstr. 153
Darmstadt 64297
DE

40-65-A3 (hex) Sagemcom Broadband SAS
4065A3
(base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

00-19-4B (hex) Sagemcom Broadband SAS
00194B (base 16) Sagemcom Broadband SAS
Le Ponnant de Paris
CEDEX Paris 75512
FR

00-1E-74 (hex) Sagemcom Broadband SAS

001E74 (base 16) Sagemcom Broadband SAS
Le Ponnant de Paris
CEDEX Paris 75512
FR

A4-3B-FA (hex) IEEE Registration Authority
A43BFA (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

3C-2D-B7 (hex) Texas Instruments
3C2DB7 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

D0-37-61 (hex) Texas Instruments
D03761 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

C8-3E-99 (hex) Texas Instruments
C83E99 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

40-98-4E (hex) Texas Instruments
40984E
(base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

00-17-EB (hex) Texas Instruments
0017EB (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

00-17-E6 (hex) Texas Instruments
0017E6 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

54-64-D9 (hex) Sagemcom Broadband SAS
5464D9 (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
RUEIL MALMAISON CEDEX Hauts de Seine 92848
FR

00-18-32 (hex) Texas Instruments
001832 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

24-DA-11 (hex) NO NDA Inc
24DA11 (base 16) NO NDA Inc
828 Bryant St
Palo Alto IA 94301
US

9C-8E-99 (hex) Hewlett Packard
9C8E99 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

EC-22-80 (hex) D-Link International
EC2280 (base 16) D-Link
International
1 Internal Business Park, #03-12,
SINGAPORE Singapore 609917
SG

F4-F5-D8 (hex) Google, Inc.
F4F5D8 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

C4-ED-BA (hex) Texas Instruments
C4EDBA (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

90-59-AF (hex) Texas Instruments
9059AF (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

BC-6A-29 (hex) Texas Instruments
BC6A29 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

84-7E-40 (hex) Texas Instruments
847E40 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

00-19-5B (hex) D-Link Corporation
00195B (base 16) D-Link Corporation
NO.289, Sinhu 3rd Rd.,
Neihu District, Taipei City 114
TW

00-0F-3D (hex) D-Link Corporation
000F3D (base 16) D-Link
Corporation
No.8,Li-shing Seventh Road,Science-based Industrial Park,Hsimchu,
Hsimchu 300
TW

B0-C0-90 (hex) Chicony Electronics Co., Ltd.
B0C090 (base 16) Chicony Electronics Co., Ltd.
No.25, Wugong 6th Rd., Wugu Dist.,
New Taipei City 248, TAIWAN, REPUBLIC OF CHINA 248
TW

AC-06-C7 (hex) ServerNet S.r.l.
AC06C7 (base 16) ServerNet S.r.l.
Località Padriciano 99
Trieste Trieste 34149
IT

00-59-AC (hex) KPN. B.V.
0059AC (base 16) KPN. B.V.
Maanplein 55
Den Haag Zuid holland 2516 CK
NL

00-17-35 (hex) Intel Wireless Network Group
001735 (base 16) Intel Wireless Network Group
2111 NE 25th Ave
Hillsboro OR 97124

US

74-AC-5F (hex) Qiku Internet Network Scientific (Shenzhen) Co., Ltd.
74AC5F (base 16) Qiku Internet Network Scientific (Shenzhen) Co., Ltd.
Cyber Harbor, 2nd Mengxi Road, Hi-Tech Industrial Park (North), NanShan District
ShenZhen GuangDong 518000
CN

38-CA-DA
(hex) Apple, Inc.
38CADA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

78-8B-77 (hex) Standar Telecom
788B77 (base 16) Standar Telecom
Sadovnicheskaya 44 s.4
Moscow 115035
RU

18-AF-61 (hex) Apple, Inc.
18AF61 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

5C-F9-38 (hex) Apple, Inc.
5CF938 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

0C-05-35 (hex) Juniper Systems
0C0535 (base 16) Juniper Systems
1132 W. 1700 N.
Logan UT 84321
US

BC-83-A7 (hex) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
BC83A7 (base 16) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
Unit A 13-16/F,Skyworth Bldg., Gaoxin Ave.1.S.,Nanshan District
Shenzhen GuangDong 518057
CN

BC-EC-23 (hex) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
BCEC23 (base 16) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
Unit A13-16/F,Skyworth Bldg., Gaoxin

Ave.1.S.,Nanshan District,Shenzhen,China
ShenZhen GuangDong 518057
CN

D0-B3-3F (hex) Shenzhen TINNO Mobile Technology Corp.
D0B33F (base 16) Shenzhen TINNO Mobile Technology Corp.
4/F.,H-3 Building,OCT Eastern lndustrial Park. NO.1 XiangShan East Road.,
GUANGDONG SHENZHEN 518053
CN

BC-D1-D3 (hex) Shenzhen TINNO Mobile Technology Corp.
BCD1D3 (base 16) Shenzhen TINNO Mobile Technology Corp.
4/F.,H-3 Building,OCT Eastern lndustrial Park.
Nanshan, Shenzhen GUANGDONG 518053
CN

D8-3C-69 (hex) Shenzhen TINNO Mobile Technology Corp.
D83C69 (base 16) Shenzhen TINNO Mobile Technology Corp.
4/F.,H-3 Building,OCT Eastern lndustrial Park. NO.1 XiangShan East Road
SHENZHEN GUANGDONG 518053
CN

40-D8-55 (hex) IEEE Registration Authority
40D855 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

34-AB-37 (hex) Apple, Inc.
34AB37 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino
CA 95014
US

24-00-BA (hex) HUAWEI TECHNOLOGIES CO.,LTD
2400BA (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan Guangdong 523808
CN

24-DF-6A (hex) HUAWEI TECHNOLOGIES CO.,LTD
24DF6A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan Guangdong 523808
CN

8C-57-9B (hex) Wistron Neweb Corporation

8C579B (base 16) Wistron Neweb Corporation
No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu R.O.C. 308
TW

10-1F-74 (hex) Hewlett Packard
101F74 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

00-9C-02 (hex) Hewlett Packard
009C02 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

00-19-BB (hex) Hewlett Packard
0019BB (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

DC-FB-02
(hex) BUFFALO.INC
DCFB02 (base 16) BUFFALO.INC
AKAMONDORI Bldg.,30-20,Ohsu 3-chome
Naka-ku,Nagoya Aichi Pref 460-8315
JP

88-57-EE (hex) BUFFALO.INC
8857EE (base 16) BUFFALO.INC
AKAMONDORI Bld.,30-20,Ohsu 3-chome,Naka-ku
Nagoya Aichi Pref. 460-8315
JP

90-7F-61 (hex) Chicony Electronics Co., Ltd.
907F61 (base 16) Chicony Electronics Co., Ltd.
No.25, Wu-Gong 6th Rd., Wu Ku Industrial Park,
New Taipei City, 248
TW

00-1D-CD (hex) ARRIS Group, Inc.
001DCD (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1D-D2 (hex) ARRIS Group, Inc.
001DD2 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

E8-3E-FC (hex) ARRIS Group, Inc.
E83EFC (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1F-29 (hex) Hewlett Packard
001F29 (base 16) Hewlett Packard
20555 State Highway 249
Houston
TX 77070
US

00-21-5A (hex) Hewlett Packard
00215A (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

00-23-7D (hex) Hewlett Packard
00237D (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

00-26-55 (hex) Hewlett Packard
002655 (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

00-0D-9D (hex) Hewlett Packard
000D9D (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

E8-ED-05 (hex) ARRIS Group, Inc.
E8ED05 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

78-96-84 (hex) ARRIS Group, Inc.
789684 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

CC-65-AD (hex) ARRIS Group, Inc.
CC65AD (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-20-7B (hex) Intel Corporation
00207B (base 16) Intel
Corporation
2111 NE 25th Avenue
Hillsboro OR 97124
US

00-11-75 (hex) Intel Corporation
001175 (base 16) Intel Corporation
5200 NE ELAM YOUNG PARKWAY
HIllsboro OR 97124
US

78-0C-B8 (hex) Intel Corporate
780CB8 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

18-5E-0F (hex) Intel Corporate
185E0F (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

90-0D-CB (hex) ARRIS Group, Inc.
900DCB (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

8C-09-F4 (hex) ARRIS Group, Inc.
8C09F4 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121

US

94-09-37 (hex) HUMAX Co., Ltd.
940937 (base 16) HUMAX Co., Ltd.
HUMAX Village, 216, Hwangsaeul-ro, Bundang-gu,
Seongnam-si Gyeonggi-do 463-875
KR

E8-4D-D0 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E84DD0 (base 16) HUAWEI TECHNOLOGIES
CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

0C-45-BA (hex) HUAWEI TECHNOLOGIES CO.,LTD
0C45BA (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

20-90-6F (hex) Shenzhen Tencent Computer System Co., Ltd.
20906F (base 16) Shenzhen Tencent Computer System Co., Ltd.
5-10 Building High-tech Zone, Nanshan District,
Shenzhen Guangdong Province 518057
CN

6C-E3-B6 (hex) Nera Telecommunications Ltd.
6CE3B6 (base 16) Nera Telecommunications Ltd.
109 Defu Lane 10
Singapore Singapore 539225
SG

EC-5F-23 (hex) Qinghai Kimascend Electronics Technology Co. Ltd.
EC5F23 (base 16) Qinghai Kimascend Electronics Technology Co. Ltd.
2F,Building 6,J6 Science&Tech Park, No.6 Jiangjun Rd., Jiangning District
Nanjing Jiangsu 211100
CN

04-7D-50 (hex) Shenzhen Kang Ying Technology Co.Ltd.
047D50
(base 16) Shenzhen Kang Ying Technology Co.Ltd.
Units 608,Saiba Electronic tower,NO.6, Langshan 2 Rd., Hi-Tech Industrial Park North , Nanshan, Shenzhen City
Shenzhen Guangdong 518057
CN

54-EF-FE (hex) Fullpower Technologies, Inc.
54EFFE (base 16) Fullpower Technologies, Inc.

1200 Pacific Avenue
Santa Cruz CA 95060
US

80-02-DF (hex) ORA Inc.
8002DF (base 16) ORA Inc.
No.1 Anjialou, Xiaoliangmaqiao Ave., Chaoyang Dist.
BeiJing 100125
CN

DC-D3-21 (hex) HUMAX Co., Ltd.
DCD321 (base 16) HUMAX Co., Ltd.
HUMAX Village, 11-4, Sunae-dong, Bundang-gu
Seongnam-si Gyeonggi-do 463-825
KR

7C-7D-3D (hex) HUAWEI TECHNOLOGIES CO.,LTD
7C7D3D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan Guangdong 523808
CN

44-82-E5 (hex) HUAWEI TECHNOLOGIES CO.,LTD
4482E5 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road,
Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-23-4E (hex) Hon Hai Precision Ind. Co.,Ltd.
00234E (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

2C-81-58 (hex) Hon Hai Precision Ind. Co.,Ltd.
2C8158 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

3C-A8-2A (hex) Hewlett Packard
3CA82A (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

2C-23-3A (hex) Hewlett Packard

2C233A (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

00-0A-57 (hex) Hewlett Packard
000A57 (base 16) Hewlett Packard
10955 Tantau Avenue
Cupertino CA 95014
US

00-01-E7 (hex) Hewlett Packard
0001E7 (base 16) Hewlett Packard
11000 Wolfe Road, Mailstop 42LE
Cupertino CA 95014
US

00-01-E6 (hex) Hewlett
Packard
0001E6 (base 16) Hewlett Packard
11000 Wolfe Road, Mailstop 42LE
Cupertino CA 95014
US

00-30-6E (hex) Hewlett Packard
00306E (base 16) Hewlett Packard
ENTERPRISE SYSTEMS TECH.CENTER
CUPERTINO CA 95014
US

00-15-60 (hex) Hewlett Packard
001560 (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

00-16-35 (hex) Hewlett Packard
001635 (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

00-08-C7 (hex) Hewlett Packard
0008C7 (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

00-10-E3 (hex) Hewlett Packard
0010E3 (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

00-08-83 (hex) Hewlett Packard
000883 (base 16) Hewlett Packard
MAIL STOP 42LE
CUPERTINO CA 95014
US

8C-DC-D4 (hex) Hewlett Packard
8CDCD4 (base 16) Hewlett Packard
11445 Compaq Center
Drive
Houston 77070
US

00-23-76 (hex) HTC Corporation
002376 (base 16) HTC Corporation
No.23 Xinghua Road
Taoyuan County 330
TW

38-E7-D8 (hex) HTC Corporation
38E7D8 (base 16) HTC Corporation
No.23 Xinghua Road
Taoyuan County 330
TW

18-87-96 (hex) HTC Corporation
188796 (base 16) HTC Corporation
No. 23, Xinghua Rd., Taoyuan City
Taoyuan County Taiwan 330
TW

B4-CE-F6 (hex) HTC Corporation
B4CEF6 (base 16) HTC Corporation
No. 23, Xinghua Rd., Taoyuan City
Taoyuan County Taiwan 330
TW

3C-4A-92 (hex) Hewlett Packard
3C4A92 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

D4-C9-EF (hex) Hewlett Packard
D4C9EF (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

FC-15-B4 (hex) Hewlett Packard
FC15B4 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

CC-44-63 (hex) Apple,
Inc.
CC4463 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

6C-72-E7 (hex) Apple, Inc.
6C72E7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

74-1B-B2 (hex) Apple, Inc.
741BB2 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-1D-0F (hex) TP-LINK TECHNOLOGIES CO.,LTD.
001D0F (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
3/F, Bldg. R1-B,
Shenzhen Guangdong 518057
CN

00-23-CD (hex) TP-LINK TECHNOLOGIES CO.,LTD.
0023CD (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
South Building, No.5 Keyuan Road, Central Zone,
Shenzhen Guangdong 518000
CN

D8-5D-4C (hex) TP-LINK TECHNOLOGIES CO.,LTD.
D85D4C (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 7, Second Part, Honghualing Industrial Zone
Shenzhen Guangdong 518000

CN

A0-F3-C1 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
A0F3C1 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building
24 (floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park,Shennan Rd, Nanshan
shenzhen guangdong Province 518057
CN

50-FA-84 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
50FA84 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24 (floors 1,3,4,5) and 28 (floors1-4)
Shennan Rd, Nanshan Shenzhen,Guangdong Province 518057
CN

44-B3-2D (hex) TP-LINK TECHNOLOGIES CO.,LTD.
44B32D (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24 (floors 1,3,4,5) and 28 (floors1-4)
Shennan Rd, Nanshan Shenzhen,Guangdong Province 518057
CN

88-25-93 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
882593 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24 (floors 1,3,4,5) and 28 (floors1-4)
Shennan Rd, Nanshan Shenzhen,Guangdong Province 518057
CN

00-1F-E1 (hex) Hon Hai Precision Ind. Co.,Ltd.
001FE1 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

4C-AC-0A
(hex) zte corporation
4CAC0A (base 16) zte corporation
12/F,ZTE R&D Building,Kejinan Road,
Shenzhen Guangdong 518057
CN

B4-B3-62 (hex) zte corporation
B4B362 (base 16) zte corporation
12/F,ZTE R&D Building,Kejinan Road,
Shenzhen Guangdong 518057
CN

B0-75-D5 (hex) zte corporation
B075D5 (base 16) zte corporation

12/F,ZTE R&D Building,Kejinan Road,
Shenzhen Guangdong 518057
CN

D0-15-4A (hex) zte corporation
D0154A (base 16) zte corporation
12/F.,zte R&D building,kejinan Road,
shenzhen guangdong 518057
CN

00-26-ED (hex) zte corporation
0026ED (base 16) zte corporation
12/F ZTE Plaza,Keji Road South,Hi-Tech Industrial Park,Nanshan District,
Shenzhen GUANGDONG 518057
CN

00-22-93 (hex) zte corporation
002293 (base 16) zte corporation
12/F ZTE Plaza,Keji Road South,Hi-Tech Industrial Park,Nanshan District,
Shenzhen GUANGDONG 518057
CN

00-60-57 (hex) Murata
Manufacturing Co., Ltd.
006057 (base 16) Murata Manufacturing Co., Ltd.
1-18-1 HAKUSAN MIDORI-KU
YOKOHAMA 226 12345
JP

78-3E-53 (hex) SKY UK LIMITED
783E53 (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

00-19-FB (hex) SKY UK LIMITED
0019FB (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

C4-F5-7C (hex) Brocade Communications Systems LLC
C4F57C (base 16) Brocade Communications Systems LLC
1320 Ridder Park Dr
San Jose CA 95131
US

00-12-F2 (hex) Brocade Communications Systems LLC

0012F2 (base 16) Brocade Communications Systems LLC
1320 Ridder Park Dr
San Jose CA 95131
US

00-05-1E (hex) Brocade Communications Systems LLC
00051E (base 16) Brocade Communications Systems LLC
1320 Ridder Park Dr
San Jose CA 95131
US

38-46-08 (hex) zte corporation
384608 (base 16) zte corporation
12/F,ZTE R&D Building,Kejinan
Road,
Shenzhen Guangdong 518057
CN

6C-E8-73 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
6CE873 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24 (floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park
Shenzhen Guangdong 518057
CN

C4-6E-1F (hex) TP-LINK TECHNOLOGIES CO.,LTD.
C46E1F (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24 (floors 1,3,4,5) and 28 (floors1-4)
Shennan Rd, Nanshan Shenzhen,Guangdong Province 518057
CN

08-3E-8E (hex) Hon Hai Precision Ind. Co.,Ltd.
083E8E (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

10-A5-D0 (hex) Murata Manufacturing Co., Ltd.
10A5D0 (base 16) Murata Manufacturing Co., Ltd.
1-10-1,Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

90-48-9A (hex) Hon Hai Precision Ind. Co.,Ltd.
90489A (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st
Road
Chongqing Chongqing 401332
CN

00-71-CC (hex) Hon Hai Precision Ind. Co.,Ltd.
0071CC (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

B0-5B-67 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B05B67 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

CC-A2-23 (hex) HUAWEI TECHNOLOGIES CO.,LTD
CCA223 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

78-6A-89 (hex) HUAWEI TECHNOLOGIES CO.,LTD
786A89 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

50-A7-2B (hex) HUAWEI TECHNOLOGIES CO.,LTD
50A72B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

0C-D6-BD
(hex) HUAWEI TECHNOLOGIES CO.,LTD
0CD6BD (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-F8-1C (hex) HUAWEI TECHNOLOGIES CO.,LTD
00F81C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

08-7A-4C (hex) HUAWEI TECHNOLOGIES CO.,LTD
087A4C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate
Shenzhen GuangDong 518057

CN

AC-E2-15 (hex) HUAWEI TECHNOLOGIES CO.,LTD
ACE215 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park,
Shenzhen Guangdong 518057
CN

00-04-0D (hex) Avaya Inc
00040D (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

70-A8-E3 (hex) HUAWEI TECHNOLOGIES CO.,LTD
70A8E3 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base,Bantian,Longgang,Shenzhen
Shenzhen
518129
CN

F8-E8-11 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F8E811 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base,Bantian,Longgang,Shenzhen
Shenzhen Guangdong 518129
CN

20-0B-C7 (hex) HUAWEI TECHNOLOGIES CO.,LTD
200BC7 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base,Bantian,Longgang,Shenzhen
Shenzhen Guangdong 518129
CN

34-6B-D3 (hex) HUAWEI TECHNOLOGIES CO.,LTD
346BD3 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park,
Shenzhen Guangdong 518057
CN

70-72-3C (hex) HUAWEI TECHNOLOGIES CO.,LTD
70723C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park,
Shenzhen Guangdong 518057
CN

AC-E8-7B (hex) HUAWEI TECHNOLOGIES CO.,LTD
ACE87B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate,Shiyan Baoan District

Shenzhen
Guangdong 518057
CN

F8-3D-FF (hex) HUAWEI TECHNOLOGIES CO.,LTD
F83DFF (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate,Shiyan Baoan District
Shenzhen Guangdong 518057
CN

28-5F-DB (hex) HUAWEI TECHNOLOGIES CO.,LTD
285FDB (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate,Shiyan Baoan District,
Shenzhen Guangdong 518108
CN

40-4D-8E (hex) HUAWEI TECHNOLOGIES CO.,LTD
404D8E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate,Shiyan Baoan District,
Shenzhen Guangdong 518108
CN

4C-54-99 (hex) HUAWEI TECHNOLOGIES CO.,LTD
4C5499 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate,Shiyan Baoan District,
Shenzhen Guangdong 518108
CN

84-DB-AC (hex) HUAWEI TECHNOLOGIES CO.,LTD
84DBAC
(base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

94-77-2B (hex) HUAWEI TECHNOLOGIES CO.,LTD
94772B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D4-40-F0 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D440F0 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

04-02-1F (hex) HUAWEI TECHNOLOGIES CO.,LTD

04021F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

14-B9-68 (hex) HUAWEI TECHNOLOGIES CO.,LTD
14B968 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

5C-F9-6A (hex) HUAWEI TECHNOLOGIES CO.,LTD
5CF96A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2
Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F4-9F-F3 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F49FF3 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

24-09-95 (hex) HUAWEI TECHNOLOGIES CO.,LTD
240995 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

04-8A-15 (hex) Avaya Inc
048A15 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

B4-B0-17 (hex) Avaya Inc
B4B017 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

90-FB-5B (hex) Avaya Inc
90FB5B (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

C8-F4-06 (hex) Avaya Inc
C8F406 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

70-52-C5 (hex) Avaya Inc
7052C5 (base 16) Avaya Inc
360 Mt
Kemble Ave
Morristown NJ 07960
US

F8-15-47 (hex) Avaya Inc
F81547 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

50-61-84 (hex) Avaya Inc
506184 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

10-CD-AE (hex) Avaya Inc
10CDAE (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

00-60-5C (hex) Cisco Systems, Inc
00605C (base 16) Cisco Systems, Inc
170 WEST TASMAN DRIVE
SAN JOSE CA 95134-1706
US

00-06-C1 (hex) Cisco Systems, Inc
0006C1 (base 16) Cisco Systems, Inc
170 WEST TASMAN DRIVE
SAN JOSE CA 95134-1706
US

00-E0-14 (hex) Cisco Systems, Inc
00E014 (base 16) Cisco Systems, Inc
170 WEST TASMAN DRIVE
SAN JOSE CA 95134-1706
US

20-A7-83 (hex) miControl GmbH
20A783 (base 16) miControl GmbH
Blankenfelder Chaussee 1
Großbeeren Brandenburg 15831
DE

00-50-BD (hex) Cisco Systems, Inc
0050BD
(base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-90-6F (hex) Cisco Systems, Inc
00906F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

F8-4A-BF (hex) HUAWEI TECHNOLOGIES CO.,LTD
F84ABF (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base,Bantian,Longgang,Shenzhen
Shenzhen Guangdong 518129
CN

78-D7-52 (hex) HUAWEI TECHNOLOGIES CO.,LTD
78D752 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1-4,Huawei Industrial Base,Bantian,Longgang
ShenZhen GuangDong 518129
CN

10-47-80 (hex) HUAWEI TECHNOLOGIES CO.,LTD
104780 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1-4,Huawei Industrial Base,Bantian,Longgang
ShenZhen GuangDong 518129
CN

54-89-98 (hex) HUAWEI TECHNOLOGIES CO.,LTD
548998 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1-4,Huawei Industrial Base,Bantian,Longgang
ShenZhen GuangDong 518129
CN

30-D1-7E (hex) HUAWEI
TECHNOLOGIES CO.,LTD
30D17E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base,Bantian,Longgang,Shenzhen

ShenZhen GuangDong 518129
CN

F8-A4-5F (hex) Xiaomi Communications Co Ltd
F8A45F (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

64-09-80 (hex) Xiaomi Communications Co Ltd
640980 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

18-59-36 (hex) Xiaomi Communications Co Ltd
185936 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

60-73-5C (hex) Cisco Systems, Inc
60735C (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

34-A8-4E (hex) Cisco Systems, Inc
34A84E (base 16) Cisco
Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

54-78-1A (hex) Cisco Systems, Inc
54781A (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

94-04-9C (hex) HUAWEI TECHNOLOGIES CO.,LTD
94049C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base
Shenzhen Guangdong 518129
CN

68-8F-84 (hex) HUAWEI TECHNOLOGIES CO.,LTD
688F84 (base 16) HUAWEI TECHNOLOGIES CO.,LTD

D1,Huawei Industrial Base
SHENZHEN GUANGDONG 518129
CN

00-50-14 (hex) Cisco Systems, Inc
005014 (base 16) Cisco Systems, Inc
170 W. TASMAN DR.
SAN JOSE CA 95134-1706
US

00-90-F2 (hex) Cisco Systems, Inc
0090F2 (base 16) Cisco Systems, Inc
170 W. TASMAN DR.
SAN JOSE CA 95134-1706
US

54-4A-16 (hex) Texas Instruments
544A16 (base 16) Texas Instruments
12500 TI BLVD
Dallas 75243
US

74-D6-EA (hex) Texas Instruments
74D6EA (base 16) Texas
Instruments
12500 TI BLVD
Dallas 75243
US

20-91-48 (hex) Texas Instruments
209148 (base 16) Texas Instruments
12500 TI BLVD
Dallas 75243
US

00-50-F0 (hex) Cisco Systems, Inc
0050F0 (base 16) Cisco Systems, Inc
170 W. TASMAN DRIVE
SAN JOSE CA 95134-1706
US

38-1C-1A (hex) Cisco Systems, Inc
381C1A (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

BC-67-1C (hex) Cisco Systems, Inc

BC671C (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

34-62-88 (hex) Cisco Systems, Inc
346288 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

CC-D8-C1 (hex) Cisco Systems, Inc
CCD8C1 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

7C-0E-CE (hex) Cisco Systems, Inc
7C0ECE (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

00-17-31
(hex) ASUSTek COMPUTER INC.
001731 (base 16) ASUSTek COMPUTER INC.
No.5 Shing Yeh Street,Kwei Shan Hsiang,Taoyuan
Taipei 333
TW

00-22-15 (hex) ASUSTek COMPUTER INC.
002215 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd.,Peitou,
Taipei 112
TW

E0-CB-4E (hex) ASUSTek COMPUTER INC.
E0CB4E (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd.,Peitou,Taipei 112 ,Taiwan
Taipei Taiwan 112
TW

E0-2F-6D (hex) Cisco Systems, Inc
E02F6D (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

58-97-1E (hex) Cisco Systems, Inc
58971E (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

B4-E9-B0 (hex) Cisco Systems, Inc
B4E9B0 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

00-08-32 (hex) Cisco Systems, Inc
000832 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

30-85-A9
(hex) ASUSTek COMPUTER INC.
3085A9 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou
Taipei 112
US

B8-38-61 (hex) Cisco Systems, Inc
B83861 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

18-9C-5D (hex) Cisco Systems, Inc
189C5D (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

5C-A4-8A (hex) Cisco Systems, Inc
5CA48A (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

1C-1D-86 (hex) Cisco Systems, Inc
1C1D86 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

58-0A-20 (hex) Cisco Systems, Inc
580A20 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

2C-3E-CF (hex) Cisco Systems, Inc
2C3ECF (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

50-87-89 (hex) Cisco Systems, Inc
508789
(base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

DC-A5-F4 (hex) Cisco Systems, Inc
DCA5F4 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

50-17-FF (hex) Cisco Systems, Inc
5017FF (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

A0-EC-F9 (hex) Cisco Systems, Inc
A0ECF9 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

54-7C-69 (hex) Cisco Systems, Inc
547C69 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

70-10-5C (hex) Cisco Systems, Inc
70105C (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134

US

10-F3-11 (hex) Cisco Systems, Inc
10F311 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

38-20-56 (hex) Cisco Systems, Inc
382056 (base 16) Cisco Systems, Inc
170 West
Tasman Drive
San Jose CA 95134
US

DC-CE-C1 (hex) Cisco Systems, Inc
DCCEC1 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

9C-57-AD (hex) Cisco Systems, Inc
9C57AD (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

0C-E0-E4 (hex) PLANTRONICS, INC.
0CE0E4 (base 16) PLANTRONICS, INC.
345 ENCINAL STREET
SANTA CRUZ CA 95060
US

74-A2-E6 (hex) Cisco Systems, Inc
74A2E6 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

BC-F1-F2 (hex) Cisco Systems, Inc
BCF1F2 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

C8-00-84 (hex) Cisco Systems, Inc
C80084 (base 16) Cisco Systems, Inc
170 West Tasman Drive

San Jose CA 95134
US

40-A6-E8 (hex) Cisco Systems, Inc
40A6E8 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

B0-59-47
(hex) Shenzhen Qihu Intelligent Technology Company Limited
B05947 (base 16) Shenzhen Qihu Intelligent Technology Company Limited
Room 201, Block A, No.1, Qianwan Road 1,Qianhai Shenzhen HongKong Modern Service Industry Cooperation Zone
Shenzhen Guangdong 518057
CN

60-FE-C5 (hex) Apple, Inc.
60FEC5 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E4-25-E7 (hex) Apple, Inc.
E425E7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

BC-92-6B (hex) Apple, Inc.
BC926B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

10-1C-0C (hex) Apple, Inc.
101C0C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

08-00-07 (hex) Apple, Inc.
080007 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-40-96 (hex) Cisco Systems, Inc

004096 (base 16) Cisco Systems, Inc
170 W. Tasman Drive
San Jose CA 95134
US

E8-65-49
(hex) Cisco Systems, Inc
E86549 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

B0-7D-47 (hex) Cisco Systems, Inc
B07D47 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

38-ED-18 (hex) Cisco Systems, Inc
38ED18 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

00-16-CB (hex) Apple, Inc.
0016CB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-17-F2 (hex) Apple, Inc.
0017F2 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-1F-5B (hex) Apple, Inc.
001F5B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-24-36 (hex) Apple, Inc.
002436 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-25-4B (hex) Apple, Inc.
00254B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-19-47
(hex) Cisco SPVTG
001947 (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

00-18-39 (hex) Cisco-Linksys, LLC
001839 (base 16) Cisco-Linksys, LLC
121 Theory Dr.
Irvine CA 92612
US

A8-FA-D8 (hex) Apple, Inc.
A8FAD8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-88-65 (hex) Apple, Inc.
008865 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

BC-3B-AF (hex) Apple, Inc.
BC3BAF (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

3C-E0-72 (hex) Apple, Inc.
3CE072 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

38-48-4C (hex) Apple, Inc.
38484C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

80-49-71 (hex) Apple, Inc.
804971 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

6C-3E-6D (hex) Apple, Inc.
6C3E6D
(base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

BC-67-78 (hex) Apple, Inc.
BC6778 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

20-C9-D0 (hex) Apple, Inc.
20C9D0 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

68-96-7B (hex) Apple, Inc.
68967B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

7C-6D-62 (hex) Apple, Inc.
7C6D62 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

40-D3-2D (hex) Apple, Inc.
40D32D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C4-2C-03 (hex) Apple, Inc.
C42C03 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

90-27-E4 (hex) Apple, Inc.
9027E4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

84-FC-FE (hex) Apple, Inc.
84FCFE (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E4-8B-7F
(hex) Apple, Inc.
E48B7F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D8-D1-CB (hex) Apple, Inc.
D8D1CB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B8-17-C2 (hex) Apple, Inc.
B817C2 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

7C-11-BE (hex) Apple, Inc.
7C11BE (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

98-D6-BB (hex) Apple, Inc.
98D6BB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A4-67-06 (hex) Apple, Inc.
A46706 (base 16) Apple, Inc.
1 Infinite Loop

Cupertino CA 95014
US

8C-58-77 (hex) Apple, Inc.
8C5877 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

7C-F0-5F (hex) Apple, Inc.
7CF05F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

10-9A-DD (hex) Apple, Inc.
109ADD (base 16) Apple,
Inc.
1 Infinite Loop
Cupertino CA 95014
US

58-1F-AA (hex) Apple, Inc.
581FAA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

88-C6-63 (hex) Apple, Inc.
88C663 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

28-37-37 (hex) Apple, Inc.
283737 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

50-EA-D6 (hex) Apple, Inc.
50EAD6 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

18-9E-FC (hex) Apple, Inc.
189EFC (base 16) Apple, Inc.

1 Infinite Loop
Cupertino CA 95014
US

AC-CF-5C (hex) Apple, Inc.
ACCF5C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

80-00-6E (hex) Apple, Inc.
80006E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

84-8E-0C (hex) Apple, Inc.
848E0C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

3C-15-C2
(hex) Apple, Inc.
3C15C2 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

6C-70-9F (hex) Apple, Inc.
6C709F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

64-76-BA (hex) Apple, Inc.
6476BA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

34-E2-FD (hex) Apple, Inc.
34E2FD (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

04-48-9A (hex) Apple, Inc.

04489A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

90-FD-61 (hex) Apple, Inc.
90FD61 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

2C-F0-EE (hex) Apple, Inc.
2CF0EE (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

5C-97-F3 (hex) Apple, Inc.
5C97F3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D4-F4-6F (hex) Apple, Inc.
D4F46F (base 16) Apple, Inc.
1
Infinite Loop
Cupertino CA 95014
US

5C-F5-DA (hex) Apple, Inc.
5CF5DA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

18-EE-69 (hex) Apple, Inc.
18EE69 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

64-9A-BE (hex) Apple, Inc.
649ABE (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-99-BF (hex) Apple, Inc.
F099BF (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

48-43-7C (hex) Apple, Inc.
48437C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

34-A3-95 (hex) Apple, Inc.
34A395 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

78-7E-61 (hex) Apple, Inc.
787E61 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

60-F8-1D (hex) Apple, Inc.
60F81D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C0-F2-FB
(hex) Apple, Inc.
C0F2FB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

24-E3-14 (hex) Apple, Inc.
24E314 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

80-E6-50 (hex) Apple, Inc.
80E650 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A4-C3-61 (hex) Apple, Inc.
A4C361 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B0-9F-BA (hex) Apple, Inc.
B09FBA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

0C-4D-E9 (hex) Apple, Inc.
0C4DE9 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E0-F5-C6 (hex) Apple, Inc.
E0F5C6 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A0-ED-CD (hex) Apple, Inc.
A0EDCD (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-F6-1C (hex) Apple, Inc.
F0F61C (base 16) Apple, Inc.
1 Infinite
Loop
Cupertino CA 95014
US

8C-29-37 (hex) Apple, Inc.
8C2937 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

08-70-45 (hex) Apple, Inc.
087045 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

A8-88-08 (hex) Apple, Inc.
A88808 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D0-33-11 (hex) Apple, Inc.
D03311 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-F2-49 (hex) Hitron Technologies. Inc
F0F249 (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

94-E9-6A (hex) Apple, Inc.
94E96A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

AC-29-3A (hex) Apple, Inc.
AC293A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

9C-FC-01 (hex) Apple, Inc.
9CFC01 (base 16) Apple,
Inc.
1 Infinite Loop
Cupertino CA 95014
US

9C-35-EB (hex) Apple, Inc.
9C35EB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

50-7A-55 (hex) Apple, Inc.
507A55 (base 16) Apple, Inc.
1 Infinite Loop

Cupertino CA 95014
US

38-C9-86 (hex) Apple, Inc.
38C986 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C8-C2-C6 (hex) Shanghai Airm2m Communication Technology Co., Ltd
C8C2C6 (base 16) Shanghai Airm2m Communication Technology Co., Ltd
Rm.816,Building C,No.668,East Beijing Road,Huangpu District,Shanghai,China
Shang hai Shang hai 200001
CN

DC-FE-07 (hex) PEGATRON CORPORATION
DCFE07 (base 16) PEGATRON CORPORATION
5F No. 76, Ligong St., Beitou District
Taipei City Taiwan 112
TW

70-79-38 (hex) Wuxi Zhanrui Electronic Technology Co.,LTD
707938 (base 16) Wuxi Zhanrui Electronic Technology Co.,LTD
Wuxi,Taihu West Road No.1188 Runhua
International Building 1604
Wuxi Jiangsu 214072
CN

78-9C-85 (hex) August Home, Inc.
789C85 (base 16) August Home, Inc.
657 Bryant Street
San Francisco California 94107
US

58-82-A8 (hex) Microsoft
5882A8 (base 16) Microsoft
1 Microsoft Way
Redmond Washington 98052
US

58-68-5D (hex) Tempo Australia Pty Ltd
58685D (base 16) Tempo Australia Pty Ltd
8/14 Rodborough Rd
Frenchs Forest NSW 2086
AU

B8-13-E9 (hex) Trace Live Network
B813E9 (base 16) Trace Live Network

#200, 5970 Centre St SE
Calgary Alberta T2H0C1
CA

80-B7-09 (hex) Viptela, Inc
80B709 (base 16) Viptela, Inc
1740 Technology Drive, Ste#500
San Jose California 95110
US

F0-0D-5C (hex) JinQianMao Technology Co.,Ltd.
F00D5C (base 16) JinQianMao Technology Co.,Ltd.
58#,Jiangbin Road,Taijiang District
Fuzhou Fujian 350009
CN

54-BE-53 (hex) zte corporation
54BE53 (base 16) zte
corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

30-E0-90 (hex) Genevisio Ltd.
30E090 (base 16) Genevisio Ltd.
13F, No.33, Sec. 1, Minsheng Rd.
New Taipei City Banqiao Dist. 220871
TW

C4-9E-41 (hex) G24 Power Limited
C49E41 (base 16) G24 Power Limited
South Lake Drive
Newport Gwent NP10 8AS
GB

D0-3E-5C (hex) HUAWEI TECHNOLOGIES CO.,LTD
D03E5C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E0-36-76 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E03676 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

EC-38-8F (hex) HUAWEI TECHNOLOGIES CO.,LTD

EC388F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

24-31-84 (hex) SHARP Corporation
243184
(base 16) SHARP Corporation
22-22,Nagaike-Cho
Osaka-City Osaka-Prefecture 545-8522
JP

58-2B-DB (hex) Pax AB
582BDB (base 16) Pax AB
Box 72
Hälleforsnäs 64806
SE

24-DA-9B (hex) Motorola Mobility LLC, a Lenovo Company
24DA9B (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

28-0E-8B (hex) Beijing Spirit Technology Development Co., Ltd.
280E8B (base 16) Beijing Spirit Technology Development Co., Ltd.
No. 26 Ave. 4 Chuangye Middle Road
Beijing 100085
CN

F4-4D-30 (hex) Elitegroup Computer Systems Co.,Ltd.
F44D30 (base 16) Elitegroup Computer Systems Co.,Ltd.
No.239,Sec.2,Ti Ding Blvd.,
Taipei Taipei
TW

A4-DC-BE (hex) HUAWEI TECHNOLOGIES CO.,LTD
A4DCBE (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

EC-B8-70 (hex) Beijing
Heweinet Technology Co.,Ltd.
ECB870 (base 16) Beijing Heweinet Technology Co.,Ltd.
1514 Room,15F,No.2 Building
Haidian District Beijing 100085
CN

B0-78-F0 (hex) Beijing HuaqinWorld Technology Co.,Ltd.
B078F0 (base 16) Beijing HuaqinWorld Technology Co.,Ltd.
Beijing City, Chaoyang District Wangjing Garden Department Youle A District No. 3 building 308 room
Bejjing Bejjing 100102
CN

38-D4-0B (hex) Samsung Electronics Co.,Ltd
38D40B (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

E8-3A-12 (hex) Samsung Electronics Co.,Ltd
E83A12 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

94-BB-AE (hex) Husqvarna AB
94BBAE (base 16) Husqvarna AB
Drottninggatan 2
Huskvarna Sweden 56131
SE

D4-0A-A9 (hex) ARRIS Group, Inc.
D40AA9 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

20-3D-66
(hex) ARRIS Group, Inc.
203D66 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

D4-94-E8 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D494E8 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

80-65-6D (hex) Samsung Electronics Co.,Ltd
80656D (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350

KR

20-9B-CD (hex) Apple, Inc.
209BCD (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

30-95-E3 (hex) SHANGHAI SIMCOM LIMITED
3095E3 (base 16) SHANGHAI SIMCOM LIMITED
Building A,SIM Technology Building,No.633, Jinzhong Road,Changning District , Shanghai, P.R.China
Shanghai / 200355
CN

FC-F1-36 (hex) Samsung Electronics Co.,Ltd
FCF136 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

B8-86-87 (hex) Liteon
Technology Corporation
B88687 (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

18-89-5B (hex) Samsung Electronics Co.,Ltd
18895B (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

58-49-25 (hex) E3 Enterprise
584925 (base 16) E3 Enterprise
32F, Shinjuku Nomura Building
Tokyo 163-0532
JP

94-F2-78 (hex) Elma Electronic
94F278 (base 16) Elma Electronic
44350 S. Grimmer Blvd
Fremont CA 94538
US

3C-5C-C3 (hex) Shenzhen First Blue Chip Technology Ltd
3C5CC3 (base 16) Shenzhen First Blue Chip Technology Ltd
3Nod Smart Building,11Floor,No.3012,Binhai Avenue, Nanshan District

Shenzhen Guangdong 518000
CN

EC-EE-D8 (hex) ZTLX Network Technology Co.,Ltd
ECEED8 (base 16) ZTLX Network Technology Co.,Ltd
Unit 703,No 77,CuShaHuan
ZhuHai GuangDong 519000
CN

80-EB-77 (hex) Wistron Corporation
80EB77
(base 16) Wistron Corporation
No. 158, SingShan Rd., Neihu, Taipei 11469, Taiwan, R.O.C.
Neihu Taipei 11469

4C-C6-81 (hex) Shenzhen Aisat Electronic Co., Ltd.
4CC681 (base 16) Shenzhen Aisat Electronic Co., Ltd.
Golden Building 419#, Design Park,
Shenzhen Guangdong 518056
CN

08-94-EF (hex) Wistron Infocomm (Zhongshan) Corporation
0894EF (base 16) Wistron Infocomm (Zhongshan) Corporation
No.38,East Keji Road,Zhongshan Torch Development Zone,Zhongshan City,Guangdong,China
Zhongshan Guangdong 528437
CN

28-37-13 (hex) Shenzhen 3Nod Digital Technology Co., Ltd.
283713 (base 16) Shenzhen 3Nod Digital Technology Co., Ltd.
Building D, No.8 Langhui Road, Tangxiayong Community, Songgang Street, Baoan District, Shenzhen City, Guangdong Province, P.R. China
Shenzhen Guangdong 518105
CN

E0-31-9E (hex) Valve Corporation
E0319E (base 16) Valve Corporation
10900 NE 4th ST
Bellevue
Washington 98004
US

48-39-74 (hex) Proware Technologies Co., Ltd.
483974 (base 16) Proware Technologies Co., Ltd.
2nd F1 East Wing,South Section,Factory Building 24,Science&Technology Park, Shennan Rd, Nanshan District
Shenzhen Guangdong 518057
CN

30-FF-F6 (hex) HangZhou KuoHeng Technology Co.,ltd
30FFF6 (base 16) HangZhou KuoHeng Technology Co.,ltd
No.368,Wangjiali,Chang'ancun Industrial Park,Wenyan Town, Xiaoshan District, Hangzhou, CHina
HangZhou ZheJiang 311258
CN

7C-AB-25 (hex) MESMO TECHNOLOGY INC.
7CAB25 (base 16) MESMO TECHNOLOGY INC.
3F., No.181, ZHOUZI ST., NEIHU DIST.,
TAIPEI TAIPEI 11493
TW

C4-9F-F3 (hex) Mciao Technologies, Inc.
C49FF3 (base 16) Mciao Technologies, Inc.
Room304, Building 1, No.288 Qiuyi Rd., Binjiang District
Hangzhou Zhejiang 310052
CN

78-8E-33 (hex) Jiangsu SEUIC Technology Co.,Ltd
788E33 (base 16) Jiangsu SEUIC Technology Co.,Ltd
NO23.Wenzhu
Road.Yuhuatai Distrct.
Nanjing Jiangsu Province 210012
CN

7C-A2-37 (hex) King Slide Technology CO., LTD.
7CA237 (base 16) King Slide Technology CO., LTD.
No. 6, Luke 9th Rd.,
Kaohsiung Taiwan 82151
TW

D4-04-CD (hex) ARRIS Group, Inc.
D404CD (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

58-48-22 (hex) Sony Corporation
584822 (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

D8-EF-CD (hex) Nokia Solutions and Networks GmbH & Co. KG
D8EFCD (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541
DE

48-E2-44 (hex) Hon Hai Precision Ind. Co.,Ltd.
48E244 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

74-73-36 (hex) MICRODIGTAL Inc
747336 (base 16) MICRODIGTAL Inc
10F, Ace High-End Tower 9th,
Seoul 153-803
KR

B0-41-1D
(hex) ITTIM Technologies
B0411D (base 16) ITTIM Technologies
B1606, No.6, Zhongguancun South Street,
Beijing Beijing 100086
CN

A4-7B-2C (hex) Nokia
A47B2C (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

DC-DB-70 (hex) Tonfunk Systementwicklung und Service GmbH
DCDB70 (base 16) Tonfunk Systementwicklung und Service GmbH
Anger20
Falkenstein / Harz OT Ermsleben Sachsen-Anhalt 06463
DE

80-0B-51 (hex) Chengdu XGimi Technology Co.,Ltd
800B51 (base 16) Chengdu XGimi Technology Co.,Ltd
5F Building A7,Tianfu Software Park,Tianfu
Chengdu Sichuan 610041
CN

A0-A6-5C (hex) Supercomputing Systems AG
A0A65C (base 16) Supercomputing Systems AG
Technoparkstrasse 1
Zurich ZH 8005
CH

88-41-57 (hex) Shenzhen Atsmart Technology Co.,Ltd.
884157 (base 16) Shenzhen Atsmart Technology Co.,Ltd.
East 3F ,2 Building, Meijing Industry Park, Qiaoxiang Road, Nanshan District
Shenzhen

Guangdong 518000
CN

34-81-F4 (hex) SST Taiwan Ltd.
3481F4 (base 16) SST Taiwan Ltd.
5F, No. 5, Industry E Rd. VII,
Hsin Chu, Taiwan 30077
TW

F8-0D-60 (hex) CANON INC.
F80D60 (base 16) CANON INC.
30-2 Shimomaruko 3-chome,
Ohta-ku Tokyo 146-8501
JP

F8-BF-09 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F8BF09 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

7C-B2-5C (hex) Acacia Communications
7CB25C (base 16) Acacia Communications
3 Clock Tower Place
Maynard MA 01754
US

F0-18-2B (hex) LG Chem
F0182B (base 16) LG Chem
128, Yeoui-daero, Yeongdeungpo-gu,
Seoul Seoul 150-721
KR

38-2B-78 (hex) ECO PLUGS ENTERPRISE CO., LTD
382B78 (base 16) ECO PLUGS ENTERPRISE CO., LTD
10F,-6, No.117, Sec.2, Zhongbei Rd., Zhongli Dist.,
Taoyuan Taiwan 32097
TW

00-A7-84 (hex) ITX security
00A784
(base 16) ITX security
9F Kolon Digital Tower Aston Bldg
SEOUL (Outside US/Canada/China) 441-813
KR

E8-37-7A (hex) Zyxel Communications Corporation
E8377A (base 16) Zyxel Communications Corporation

No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

D8-9A-34 (hex) Beijing SHENQI Technology Co., Ltd.
D89A34 (base 16) Beijing SHENQI Technology Co., Ltd.
No.6 Shang Di West Road
Haidian District Beijing 100085
CN

C4-EA-1D (hex) Technicolor Delivery Technologies Belgium NV
C4EA1D (base 16) Technicolor Delivery Technologies Belgium NV
Prins Boudewijnlaan 47
Edegem - Belgium B-2650
BE

7C-F9-0E (hex) Samsung Electronics Co.,Ltd
7CF90E (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

50-F0-D3 (hex) Samsung Electronics Co.,Ltd
50F0D3 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

80-3B-2A
(hex) ABB Xiamen Low Voltage Equipment Co.,Ltd.
803B2A (base 16) ABB Xiamen Low Voltage Equipment Co.,Ltd.
No.12-20,3rd Chuang Xin Road
Xiamen SEZ Fujian 361006
CN

3C-CE-15 (hex) Mercedes-Benz USA, LLC
3CCE15 (base 16) Mercedes-Benz USA, LLC
One Mercedes Drive
Montvale NJ 07645
US

38-FA-CA (hex) Skyworth Digital Technology(Shenzhen) Co.,Ltd
38FACA (base 16) Skyworth Digital Technology(Shenzhen) Co.,Ltd
7F,Block A,Skyworth Building,
Shenzhen Guangdong 518057
CN

14-9A-10 (hex) Microsoft Corporation

149A10 (base 16) Microsoft Corporation
1 Microsoft Way
Redmond Washington 98052
FI

5C-B4-3E (hex) HUAWEI TECHNOLOGIES CO.,LTD
5CB43E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

54-E1-40 (hex) INGENICO
54E140 (base 16) INGENICO
9 AVENUE DE LA GARE
VALENCE DROME 26958
FR

E4-90-7E
(hex) Motorola Mobility LLC, a Lenovo Company
E4907E (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

24-E5-AA (hex) Philips Oral Healthcare, Inc.
24E5AA (base 16) Philips Oral Healthcare, Inc.
22100 Bothell Everett Hwy
Bothell WA 98021
US

78-BD-BC (hex) Samsung Electronics Co.,Ltd
78BDBC (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

34-9B-5B (hex) Maquet GmbH
349B5B (base 16) Maquet GmbH
Kehler Strasse 31
Rastatt Baden-Württemberg 76437
DE

84-11-9E (hex) Samsung Electronics Co.,Ltd
84119E (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

74-6A-3A (hex) Aperi Corporation
746A3A (base 16) Aperi Corporation
360 Mobil Avenue
Camarillo CA 93010
US

94-A7-B7 (hex) zte corporation
94A7B7 (base 16) zte corporation
12/F.,zte
R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

18-44-E6 (hex) zte corporation
1844E6 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

48-50-73 (hex) Microsoft Corporation
485073 (base 16) Microsoft Corporation
1 Microsoft Way
Redmond Washington 98052
FI

70-77-81 (hex) Hon Hai Precision Ind. Co.,Ltd.
707781 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

28-76-10 (hex) IgniteNet
287610 (base 16) IgniteNet
1, Creation 3rd Rd.
Hsinchu 300
TW

1C-83-41 (hex) Hefei Bitland Information Technology Co.Ltd
1C8341 (base 16) Hefei Bitland Information Technology Co.Ltd
C1# Building, Bitland Industrial Park, No#4088, Jinxiu RD,Economic Development Zone, Hefei, Anhui, China
Hefei Anhui 230061
CN

70-68-79 (hex) Saijo
Denki International Co., Ltd.
706879 (base 16) Saijo Denki International Co., Ltd.
39/9 Moo 9 Soi Duangmanee
Muang Nonthaburi 11000

TH

08-1F-EB (hex) BinCube
081FEB (base 16) BinCube
Si Ming Shan Road 116, Beilun
Ningbo Zhejiang 315800
CN

78-5F-4C (hex) Argox Information Co., Ltd.
785F4C (base 16) Argox Information Co., Ltd.
7F, No.126, Lane 235, Baoqiao Rd., Xindian Dist.
New Taipei City Taipei 231
TW

6C-1E-70 (hex) Guangzhou YBDS IT Co.,Ltd
6C1E70 (base 16) Guangzhou YBDS IT Co.,Ltd
Room 318,3/F,970 Kang Wang Bei Lu,Liwan District,Guangzhou,PRC
Guangzhou City Guangdong Province 510170
CN

20-D7-5A (hex) Posh Mobile Limited
20D75A (base 16) Posh Mobile Limited
1011A 10/F Harbour Centre Tower 1, 1 Hok Cheung Street
HungHom Kowloon 00000
HK

F4-15-63 (hex) F5 Networks, Inc.
F41563 (base 16) F5 Networks, Inc.
1322 North Whitman Lane
Liberty Lake WA 99019
US

8C-8B-83
(hex) Texas Instruments
8C8B83 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

40-11-DC (hex) Sonance
4011DC (base 16) Sonance
212 Avenida Fabricante
San Clemente California 92672
US

10-AF-78 (hex) Shenzhen ATUE Technology Co., Ltd
10AF78 (base 16) Shenzhen ATUE Technology Co., Ltd
3/F,Building 2nd, Xintang Industry Zone,Fuyong Town,Bao'an District

Shenzhen Guangdong 518103
CN

D8-AD-DD (hex) Sonavation, Inc.
D8ADDD (base 16) Sonavation, Inc.
3970 RCA Blvd.
Palm Beach Gardens Florida 33410
US

88-33-BE (hex) Ivenix, Inc.
8833BE (base 16) Ivenix, Inc.
21 Water Street
Amesbury MA 01913
US

54-B8-0A (hex) D-Link International
54B80A (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

34-CC-28 (hex) Nexpring Co. LTD.,
34CC28 (base 16) Nexpring Co. LTD.,
3rd Floor,
Building C, PDC Tower
Sungnam City Kyungki-do 463400
KR

54-E2-C8 (hex) Dongguan Aoyuan Electronics Technology Co., Ltd
54E2C8 (base 16) Dongguan Aoyuan Electronics Technology Co., Ltd
Factory A7 Zhen'an Sci-Tech Industrial Park, Chang'an Town, Dongguan City, Guangdong Province, China
Dongguan City Guangdong Province 523863
CN

24-9E-AB (hex) HUAWEI TECHNOLOGIES CO.,LTD
249EAB (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E4-8D-8C (hex) Routerboard.com
E48D8C (base 16) Routerboard.com
Mikrotikls SIA
Riga Riga LV1009
LV

CC-19-A8 (hex) PT Inovação e Sistemas SA
CC19A8 (base 16) PT Inovação e Sistemas SA

Rua Eng. José Ferreira Pinto Basto
Aveiro Aveiro 3810-106
PT

6C-A7-5F (hex) zte corporation
6CA75F (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong
518057
CN

8C-79-67 (hex) zte corporation
8C7967 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

B4-B2-65 (hex) DAEHO I&T
B4B265 (base 16) DAEHO I&T
211, Jayumuyeok 3-gil, MasanHoewon-gu
Changwon-si Gyeongsangnam-do 630-812
KR

CC-A4-AF (hex) Shenzhen Sowell Technology Co., LTD
CCA4AF (base 16) Shenzhen Sowell Technology Co., LTD
7F, Yizhe Building. Yuquan Road.
Shen Zhen Guang Dong 518052
CN

E0-35-60 (hex) Challenger Supply Holdings, LLC
E03560 (base 16) Challenger Supply Holdings, LLC
4500 Mercantile Plaza Dr.
Fort Worth TX 76137
US

3C-CB-7C (hex) TCT mobile ltd
3CCB7C (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

E4-CE-70 (hex) Health & Life co., Ltd.
E4CE70 (base 16) Health & Life co., Ltd.
9F, No. 186, Jian Yi Road
New Taipei
City Taiwan 23553
TW

24-4B-03 (hex) Samsung Electronics Co.,Ltd
244B03 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

00-71-C2 (hex) PEGATRON CORPORATION
0071C2 (base 16) PEGATRON CORPORATION
5F No. 76, Ligong St., Beitou District
Taipei City Taiwan 112
TW

74-E2-8C (hex) Microsoft Corporation
74E28C (base 16) Microsoft Corporation
1 Microsoft Way
Redmond Washington 98052
FI

7C-82-74 (hex) Shenzhen Hikeen Technology CO.,LTD
7C8274 (base 16) Shenzhen Hikeen Technology CO.,LTD
15rd floor,unit1,Building A of Kexing Science Park
Shenzhen GuangDong 518057
CN

94-D4-17 (hex) GPI KOREA INC.
94D417 (base 16) GPI KOREA INC.
Daebang Triplaon B-Dong 201
Goyang-Si Kyeonggi-Do 410-704
KR

F0-79-59 (hex) ASUSTek COMPUTER INC.
F07959 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan
112
TW

70-4E-66 (hex) SHENZHEN FAST TECHNOLOGIES CO.,LTD
704E66 (base 16) SHENZHEN FAST TECHNOLOGIES CO.,LTD
Room 202,Building No.5,Section 30,No.2 of Kefa Road,Nanshan District,Shenzhen,P.R.China
Shenzhen Guangdong 518057
CN

24-4B-81 (hex) Samsung Electronics Co.,Ltd
244B81 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D8-55-A3 (hex) zte corporation
D855A3 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

38-D8-2F (hex) zte corporation
38D82F (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

78-58-F3 (hex) Vachen Co.,Ltd
7858F3 (base 16) Vachen Co.,Ltd
Rm1206, Hanyang Bldg, 18, Gukhoe-daero 70-gil, Yeongdeungpo-gu
Seoul Seoul 150-748
KR

10-2C-83 (hex) XIMEA
102C83 (base 16) XIMEA
Lesna 52
Marianka
SK 90033
SK

70-9C-8F (hex) Nero AG
709C8F (base 16) Nero AG
Rueppurrer Str. 1A
Karlsruhe BW 76137
DE

28-84-FA (hex) SHARP Corporation
2884FA (base 16) SHARP Corporation
1 Takumi-cho, Sakai-ku
Sakai City Osaka 590-8522
JP

30-0E-E3 (hex) Aquantia Corporation
300EE3 (base 16) Aquantia Corporation
700 Tasman Drive
Milpitas CA 95035
US

60-D9-A0 (hex) Lenovo Mobile Communication Technology Ltd.
60D9A0 (base 16) Lenovo Mobile Communication Technology Ltd.
No.999, Qishan North 2nd Road, Information & Optoelectronics Park,
Xiamen Fujian 361006

84-4B-B7 (hex) Beijing Sankuai Online Technology Co.,Ltd
844BB7 (base 16) Beijing Sankuai Online Technology Co.,Ltd
Block F&G, Wangjing International R & D Park,
Chaoyang District BEIJING 100102
CN

68-F0-BC (hex) Shenzhen LiWiFi Technology Co., Ltd
68F0BC (base 16) Shenzhen LiWiFi Technology Co., Ltd
No.7, Xinxi
Road, Hi-Tech Park (North Zone)
Shenzhen Guangdong 518057
CN

60-AF-6D (hex) Samsung Electronics Co.,Ltd
60AF6D (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B8-5A-73 (hex) Samsung Electronics Co.,Ltd
B85A73 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

3C-1E-04 (hex) D-Link International
3C1E04 (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

18-F1-45 (hex) NetComm Wireless Limited
18F145 (base 16) NetComm Wireless Limited
Level 2, 18-20 Orion Road
Lane Cove Sydney 2066
AU

E0-8E-3C (hex) Aztech Electronics Pte Ltd
E08E3C (base 16) Aztech Electronics Pte Ltd
31, Ubi Road 1
Singapore Singapore 408694
SG

68-B9-83 (hex) b-plus GmbH
68B983 (base 16) b-plus GmbH
Ulrichsberger Str. 17

Deggendorf Bavaria 94469
DE

50-AD-D5
(hex) Dynalec Corporation
50ADD5 (base 16) Dynalec Corporation
87 West Main Street
Sodus NY 14551
US

B0-45-19 (hex) TCT mobile ltd
B04519 (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

78-B3-B9 (hex) ShangHai sunup lighting CO.,LTD
78B3B9 (base 16) ShangHai sunup lighting CO.,LTD
RM2508,Building 2,1077# Zu Chong Zhi Rd,Zhang Jiang Hi-Tech Park,Pudong New Area,ShangHai,China
shanghai shanghai 201203
CN

04-C0-9C (hex) Tellabs Inc.
04C09C (base 16) Tellabs Inc.
1415 W. Diehl Road
Naperville Illinois 60563
US

AC-AB-BF (hex) AthenTek Inc.
ACABBF (base 16) AthenTek Inc.
8F., No.356, Sec. 1, Neihu Rd., Neihu Dist.,
Taipei City Taiwan 114
TW

98-1D-FA (hex) Samsung Electronics Co.,Ltd
981DFA (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

18-68-82
(hex) Beward R&D Co., Ltd.
186882 (base 16) Beward R&D Co., Ltd.
Molokova street 16, apt.355
Krasnoyarsk Krasnoyarsk region 660118
RU

74-29-AF (hex) Hon Hai Precision Ind. Co.,Ltd.

7429AF (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

40-EA-CE (hex) FOUNDER BROADBAND NETWORK SERVICE CO.,LTD
40EACE (base 16) FOUNDER BROADBAND NETWORK SERVICE CO.,LTD
5F,Tower B,Beifa Plaza,No.16 Building
Haisdian District Beijing 100088
CN

84-8E-DF (hex) Sony Corporation
848EDF (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

3C-1A-0F (hex) ClearSky Data
3C1A0F (base 16) ClearSky Data
99 Summer Street
Boston MA 02110
US

D8-8D-5C (hex) Elentec
D88D5C (base 16) Elentec
Dongtangiheung-ro 64-3
Gyeonggi-do Hwaseong-si/Dongtan-myeon 445-812
KR

EC-80-09 (hex) NovaSparks
EC8009 (base 16) NovaSparks
12
rue de Chatillon
Paris Ile de France 75014
FR

E8-CC-18 (hex) D-Link International
E8CC18 (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

B0-91-37 (hex) ISis ImageStream Internet Solutions, Inc
B09137 (base 16) ISis ImageStream Internet Solutions, Inc
4374 FM 1518
Selma TX 78154
US

94-8E-89 (hex) INDUSTRIAS UNIDAS SA DE CV
948E89 (base 16) INDUSTRIAS UNIDAS SA DE CV
CARRETERA PANAMERICANA
PASTEJE JOCOTITLAN ESTADO DE MEXICO 50700
MX

24-97-ED (hex) Techvision Intelligent Technology Limited
2497ED (base 16) Techvision Intelligent Technology Limited
Room 7006B, Tianxia IC Industry Building,
Shenzhen Guangdong 518052
CN

A4-9D-49 (hex) Ketra, Inc.
A49D49 (base 16) Ketra, Inc.
3815 S. Capital of Texas Hwy
Austin TX 78704
US

8C-05-51 (hex) Koubachi AG
8C0551 (base 16) Koubachi AG
Technoparkstrasse
1
Zurich Zurich 8005
CH

D8-97-BA (hex) PEGATRON CORPORATION
D897BA (base 16) PEGATRON CORPORATION
5F No. 76, Ligong St., Beitou District
Taipei City Taiwan 112
TW

A8-D8-8A (hex) Wyconn
A8D88A (base 16) Wyconn
Rennweg 97-99
Vienna 1030
AT

2C-50-89 (hex) Shenzhen Kaixuan Visual Technology Co.,Limited
2C5089 (base 16) Shenzhen Kaixuan Visual Technology Co.,Limited
No.19th Xifu Road, Hongxing Community
Shenzhen Guangdong 518000
CN

20-76-93 (hex) Lenovo (Beijing) Limited.
207693 (base 16) Lenovo (Beijing) Limited.
No.6 Chuang Ye Road Shangdi Information Industry Base,
Beijing 100085
CN

60-04-17 (hex) POSBANK CO.,LTD
600417 (base 16) POSBANK CO.,LTD
Room 805-808, New T Castle B/D, 429-1
Seoul 153-803
KR

C0-38-96 (hex) Hon Hai Precision Ind. Co.,Ltd.
C03896 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing
Chongqing 401332
CN

08-46-56 (hex) VEO-LABS
084656 (base 16) VEO-LABS
14 rue du Patis Tatelin
RENNES Bretagne 35700
FR

EC-3C-5A (hex) SHEN ZHEN HENG SHENG HUI DIGITAL TECHNOLOGY CO.,LTD
EC3C5A (base 16) SHEN ZHEN HENG SHENG HUI DIGITAL TECHNOLOGY CO.,LTD
5A 6FLOOR, BLOCK C12, FUYUAN INDUSTRIAL AREA, ZHOU SHI ROAD,
SHENZHEN GUANGDONG 518102
CN

44-88-CB (hex) Camco Technologies NV
4488CB (base 16) Camco Technologies NV
Technologielaan 13
Heverlee VB 3001
BE

50-29-4D (hex) NANJING IOT SENSOR TECHNOLOGY CO,LTD
50294D (base 16) NANJING IOT SENSOR TECHNOLOGY CO,LTD
ROOM 422 NO.420 ZHONGHUA ROAD QINHUAI DISTRICT NANJING CITY
Nangjing jiangsu 210000
CN

0C-CF-D1 (hex) SPRINGWAVE Co., Ltd
0CCFD1 (base 16) SPRINGWAVE Co., Ltd
#B-703,U-space 1-danji,670 Sampyeong-dong Bundang-gu
Seongnam-si Gyeonggi-do 463-400
KR

1C-7E-51 (hex) 3bumen.com
1C7E51 (base 16) 3bumen.com
11/F

FRONT BLK HANG LOK BLDG
HONG KONG KONG KONG N/A
HK

68-72-DC (hex) CETORY.TV Company Limited
6872DC (base 16) CETORY.TV Company Limited
Building C-1601, Tiley Central Plaza
Shenzhen Guangdong 518054
CN

00-AE-FA (hex) Murata Manufacturing Co., Ltd.
00AEFA (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

74-BA-DB (hex) Longconn Electornics(shenzhen)Co.,Ltd
74BADB (base 16) Longconn Electornics(shenzhen)Co.,Ltd
Building D12,n 30,Xingye One Road,Fenghuang First Industrial Zone,Fuyong Street,Bao an District,Shenzhen,Guangdong Province.
shenzhen guangdong 518000
CN

F8-24-41 (hex) Yeelink
F82441 (base 16) Yeelink
F10-B4, Bldg. B, International Innovation Park
Qingdao Shandong 266101
CN

10-8A-1B (hex) RAONIX Inc.
108A1B (base 16) RAONIX Inc.
Changeop-Center 710, Shin-Gu Univ. Gwangmyeong-ro 377, Jungwon-gu
Seongnam-si
Gyeonggi-do 462-743
KR

B8-F3-17 (hex) iSun Smasher Communications Private Limited
B8F317 (base 16) iSun Smasher Communications Private Limited
No. 826, Ferns Paradise, 2nd Street,
Bangalore Karnataka 560037
IN

8C-F8-13 (hex) ORANGE POLSKA
8CF813 (base 16) ORANGE POLSKA
AL.JEROZOLIMSKIE 160
WARSAW MASOVIA 02-326
PL

6C-BF-B5 (hex) Noon Technology Co., Ltd
6CBFB5 (base 16) Noon Technology Co., Ltd
Building C, Zhangkeng Industrial Park, Minzhi
Shenzhen GuangDong 518131
CN

84-18-26 (hex) Osram GmbH
841826 (base 16) Osram GmbH
Marcel Breuer Str. 6
Munich Bavaria 80807
DE

F8-E9-03 (hex) D-Link International
F8E903 (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

E8-96-06 (hex) testo Instruments (Shenzhen) Co., Ltd.
E89606 (base 16) testo Instruments (Shenzhen) Co., Ltd.
China Merchants Guangming Science
& Technology Park,
Guangming New District, Shenzhen Guangdong 518107
CN

30-77-CB (hex) Maike Industry(Shenzhen)CO.,LTD
3077CB (base 16) Maike Industry(Shenzhen)CO.,LTD
Maike Industrial Garden, Sanwei village,
Shenzhen Guangdong 518100
CN

90-9F-33 (hex) EFM Networks
909F33 (base 16) EFM Networks
6F, Benposra II 1197-1 Bojeong Giheung Gu
Yong In Kyunggi do 446913
KR

68-F0-6D (hex) ALONG INDUSTRIAL CO., LIMITED
68F06D (base 16) ALONG INDUSTRIAL CO., LIMITED
FLAT/RM,3 11/F, HUNG TO INDUSTRIAL BUILDING
HONG KONG
HK

94-54-93 (hex) Rigado, LLC
945493 (base 16) Rigado, LLC
2601 25th ST SE, STE 200
Salem OR 97302
US

F4-28-53 (hex) Zioncom Electronics (Shenzhen) Ltd.
F42853 (base 16) Zioncom Electronics (Shenzhen) Ltd.
A1&A2 Building,Lantian Technology Park, Xinyu Road, Xingqiao Henggang Block, Shajing Street, Baoan District
Shenzhen Guangdong 518000
CN

1C-9C-26
(hex) Zoovel Technologies
1C9C26 (base 16) Zoovel Technologies
Paseo de la Castellana 259C
Madrid 28046
ES

D4-EC-86 (hex) LinkedHope Intelligent Technologies Co., Ltd
D4EC86 (base 16) LinkedHope Intelligent Technologies Co., Ltd
2nd Floor,Building 1, Science Park,
Beijing Beijing 100070
CN

04-67-85 (hex) scemtec Hard- und Software fuer Mess- und Steuerungstechnik GmbH
046785 (base 16) scemtec Hard- und Software fuer Mess- und Steuerungstechnik GmbH
Gewerbeparkstr. 20
Reichshof-Wehnrath NRW 51580

D0-FA-1D (hex) Qihoo 360 Technology Co.,Ltd
D0FA1D (base 16) Qihoo 360 Technology Co.,Ltd
Building 26 Haoyuan
Chaoyang District Beijing 100015
CN

84-32-EA (hex) ANHUI WANZTEN P&T CO., LTD
8432EA (base 16) ANHUI WANZTEN P&T CO., LTD
9F Building B1 HUAYI science Park
Hefei Anhui Province 230088
CN

E0-1D-38 (hex) Beijing HuaqinWorld Technology Co.,Ltd
E01D38 (base 16) Beijing
HuaqinWorld Technology Co.,Ltd
30F,Beijing Silver Tower
Chao Yang Dist Beijing 100027
CN

E4-7F-B2 (hex) FUJITSU LIMITED
E47FB2 (base 16) FUJITSU LIMITED
403, Kosugi-cho 1-chome, Nakahara-ku

Kawasaki Kanagawa 211-0063
JP

FC-9F-E1 (hex) CONWIN.Tech. Ltd
FC9FE1 (base 16) CONWIN.Tech. Ltd
4D,Tianxia IC Bldg,115 Yiyuan road, Nanshan District,Shenzhen,Guangdong,P.P.China
Shenzhen Guangdong 518000
CN

A8-1B-5D (hex) Foxtel Management Pty Ltd
A81B5D (base 16) Foxtel Management Pty Ltd
Building 3, Level 3
NORTH RYDE NSW 2113
AU

AC-11-D3 (hex) Suzhou HOTEK Video Technology Co. Ltd
AC11D3 (base 16) Suzhou HOTEK Video Technology Co. Ltd
No.78,Keling Road,Suzhou National new and hi-tech industrial Development zone
Suzhou Jiangsu 215200
CN

FC-6D-C0 (hex) BME CORPORATION
FC6DC0 (base 16) BME CORPORATION
147-2
Kawagoe-shi Saitama 350-0845
JP

24-D1-3F (hex) MEXUS
CO.,LTD
24D13F (base 16) MEXUS CO.,LTD
1512, Seoulsup IT Valley,
Seoul Seoul 133-822
KR

50-50-65 (hex) TAKT Corporation
505065 (base 16) TAKT Corporation
2762-8
Chino-City Nagano-Pref. 391-0001
JP

40-C6-2A (hex) Shanghai Jing Ren Electronic Technology Co., Ltd.
40C62A (base 16) Shanghai Jing Ren Electronic Technology Co., Ltd.
GUI Qing Road 7 No. 3 building G7 software base A District 208 room
Xuhui District Shanghai City 200233
CN

E8-15-0E (hex) Nokia Corporation
E8150E (base 16) Nokia Corporation

Joensuunkatu 7
Salo N.A. 24101
FI

B8-9B-E4 (hex) ABB Power Systems Power Generation
B89BE4 (base 16) ABB Power Systems Power Generation
29801 Euclid Ave
Wickliffe Ohio 44092
US

78-24-AF (hex) ASUSTek COMPUTER INC.
7824AF (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

10-2F-6B (hex) Microsoft Corporation
102F6B
(base 16) Microsoft Corporation
1 Microsoft Way
Redmond Washington 98052
FI

0C-AC-05 (hex) Unitend Technologies Inc.
0CAC05 (base 16) Unitend Technologies Inc.
No.6 Nanda'an Hutong, Xizhimeng st
Zicheng District Beijing 100035
CN

80-AD-67 (hex) Kasda Networks Inc
80AD67 (base 16) Kasda Networks Inc
B-31 Building, Tanglang Industry Zone, Xili, Nanshan District
Shenzhen Guangdong 518055
CN

30-B5-F1 (hex) Aitexin Technology Co., Ltd
30B5F1 (base 16) Aitexin Technology Co., Ltd
1210 PDAY research center streer 2
Peiking 100190
CN

B0-10-41 (hex) Hon Hai Precision Ind. Co.,Ltd.
B01041 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

3C-AA-3F (hex) iKey, Ltd.

3CAA3F (base 16) iKey, Ltd.
2621 Ridgepoint Drive
Austin Texas 78754
US

0C-38-3E (hex) Fanvil Technology Co., Ltd.
0C383E (base 16) Fanvil
Technology Co., Ltd.
3F, Block A, Gaoxinqi Building, Anhua Industrial Park
Shenzhen Guangdong 518101
CN

60-CD-A9 (hex) Abloomy
60CDA9 (base 16) Abloomy
Room 501 ,CTS Building,No 1 Beishatan Chaoyang District
BeiJing 100083
CN

B8-AD-3E (hex) BLUECOM
B8AD3E (base 16) BLUECOM
116, Venture-ro, Yeonsu-gu,
Incheon 406-840
KR

18-30-09 (hex) Woojin Industrial Systems Co., Ltd.
183009 (base 16) Woojin Industrial Systems Co., Ltd.
95, Sari-ro, Sari-myeon
Goesan-gun Chungcheongbuk-do 367-822
KR

74-DB-D1 (hex) Ebay Inc
74DBD1 (base 16) Ebay Inc
2211 N. First St
San Jose Ca 95131
US

DC-53-7C (hex) Compal Broadband Networks, Inc.
DC537C (base 16) Compal Broadband Networks, Inc.
13F., No.1, Taiyuan 1st St.
Zhubei City Hsinchu County 30265
TW

44-A6-E5 (hex) THINKING TECHNOLOGY CO.,LTD
44A6E5 (base 16) THINKING TECHNOLOGY CO.,LTD
The 6th Floor,Gate No. 3
of Huaqiang Logistics Building
Nanshan, Shenzhen Guangdong 518055
CN

90-DA-6A (hex) FOCUS H&S Co., Ltd.
90DA6A (base 16) FOCUS H&S Co., Ltd.
#113, Doosan Venture Digm, 126-1
Anyang Gyeonggi-Do 431-755
KR

4C-6E-6E (hex) Comnect Technology CO.,LTD
4C6E6E (base 16) Comnect Technology CO.,LTD
7-402, Xinyuan Industrial Park, No.61
Shenzhen Guangdong 518055
CN

8C-33-57 (hex) HiteVision Digital Media Technology Co.,Ltd.
8C3357 (base 16) HiteVision Digital Media Technology Co.,Ltd.
1st building,Honghui Industrial Park,LiuXian
Shenzhen Guangdong 510008
CN

C4-42-02 (hex) Samsung Electronics Co.,Ltd
C44202 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B4-AE-6F (hex) Circle Reliance, Inc DBA Cranberry Networks
B4AE6F (base 16) Circle Reliance, Inc DBA Cranberry Networks
921 Rose Avenue
Menlo Park CA 94025
US

A4-5D-A1 (hex) ADB Broadband
Italia
A45DA1 (base 16) ADB Broadband Italia
VIALE SARCA 336
MILANO ITALY 20126

4C-39-09 (hex) HPL Electric & Power Private Limited
4C3909 (base 16) HPL Electric & Power Private Limited
133, Pace City-1, Sec-37
Gurgaon Haryana 122001
IN

90-7E-BA (hex) UTEK TECHNOLOGY (SHENZHEN) CO.,LTD
907EBA (base 16) UTEK TECHNOLOGY (SHENZHEN) CO.,LTD
6F, C Building JiaAn Industrial Zone, 72# district of Baoan, ShenZhen, China
SHENZHEN Guangdong Province 518101

CN

A0-02-DC (hex) Amazon Technologies Inc.
A002DC (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

84-94-8C (hex) Hitron Technologies. Inc
84948C (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

A8-F7-E0 (hex) PLANET Technology Corporation
A8F7E0 (base 16) PLANET Technology Corporation
11F, No. 96, Min Quan Road,
New
Taipei City 22341
TW

44-86-C1 (hex) Siemens Low Voltage & Products
4486C1 (base 16) Siemens Low Voltage & Products
5400 Triangle Parkway
Norcross GA 30092
US

40-45-DA (hex) Spreadtrum Communications (Shanghai) Co., Ltd.
4045DA (base 16) Spreadtrum Communications (Shanghai) Co., Ltd.
Building 1, Spreadtrum Center, No.2288, Zuchongzhi Rd
Shanghai 201203

54-2A-A2 (hex) Alpha Networks Inc.
542AA2 (base 16) Alpha Networks Inc.
No.8 Li-shing 7th Rd., Science-based Industrial Park, Hsinchu, Taiwan, R.O.C
Hsinchu Taiwan 300
TW

6C-19-8F (hex) D-Link International
6C198F (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

C8-FF-77 (hex) Dyson Limited
C8FF77 (base 16) Dyson Limited
Tetbury Hill

Malmesbury Wiltshire SN16 0RP
GB

B4-9E-AC (hex) Imagik Int'l Corp
B49EAC (base 16) Imagik Int'l Corp
2299 SW 37 th
Ave
Miami Florida 33145
US

E0-CB-EE (hex) Samsung Electronics Co.,Ltd
E0CBEE (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

10-30-47 (hex) Samsung Electronics Co.,Ltd
103047 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

5C-2E-59 (hex) Samsung Electronics Co.,Ltd
5C2E59 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F8-84-F2 (hex) Samsung Electronics Co.,Ltd
F884F2 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B0-75-4D (hex) Nokia
B0754D (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

54-B7-53 (hex) Hunan Fenghui Yinjia Science And Technology Co.,Ltd
54B753 (base 16) Hunan Fenghui Yinjia Science And Technology Co.,Ltd
No.15 Lutian Road
Changsha Hunan 410205
CN

34-51-AA (hex) JID GLOBAL
3451AA

(base 16) JID GLOBAL
211, Biz Plus Suwon 2F Chungho Bldg, 17 363Road, Susung-ro
SUWON Gyeonggi-do 440-846
KR

98-BE-94 (hex) IBM
98BE94 (base 16) IBM
3039 E Cornwallis Rd
Research Triangle Park NC 27709
US

C4-6B-B4 (hex) myIDkey
C46BB4 (base 16) myIDkey
65 Enterprise
Aliso Viejo CA 92656
US

CC-07-E4 (hex) Lenovo Mobile Communication Technology Ltd.
CC07E4 (base 16) Lenovo Mobile Communication Technology Ltd.
No.999, Qishan North 2nd Road, Information & Optoelectronics Park, Torch Hi-tech Industry Development Zone, Xiamen, P.R.China
Xiamen Fujian 361006
US

08-74-F6 (hex) Winterhalter Gastronom GmbH
0874F6 (base 16) Winterhalter Gastronom GmbH
Tettnanger Straße 72
Meckenbeuren Baden-Württemberg 88074
DE

0C-63-FC (hex) Nanjing Signway Technology Co., Ltd
0C63FC (base 16) Nanjing Signway Technology Co., Ltd
Rm 1001,10/F,28 Ningshuang Rd,
Nanjing Jiangsu
210012
CN

D4-E0-8E (hex) ValueHD Corporation
D4E08E (base 16) ValueHD Corporation
Xinwei Xili, Nanshan District, Shenzhen City Industrial Zone, Shiling 8, 3rd Floor, North
Shenzhen Guangdong 518055
CN

C8-9F-1D (hex) SHENZHEN COMMUNICATION TECHNOLOGIES CO.,LTD
C89F1D (base 16) SHENZHEN COMMUNICATION TECHNOLOGIES CO.,LTD
NO.6 QINGNING ROAD,CAIHUANG INDUSTRY PARK,
SHENZHEN GUANGDONG 518109
CN

14-3D-F2 (hex) Beijing Shidai Hongyuan Network Communication Co.,Ltd
143DF2 (base 16) Beijing Shidai Hongyuan Network Communication Co.,Ltd
#505, 5F, Tower 3
Beijing 100000
CN

2C-39-C1 (hex) Ciena Corporation
2C39C1 (base 16) Ciena Corporation
7035 Ridge Road
Hanover MD 21076
US

54-EE-75 (hex) Wistron InfoComm(Kunshan)Co.,Ltd.
54EE75 (base 16) Wistron InfoComm(Kunshan)Co.,Ltd.
168# First Avenue,Kunshan Integrated Free Trade Zone,Kunshan,Jiangsu,China
Kunshan Jiangsu 215300
CN

AC-B8-59
(hex) Uniband Electronic Corp,
ACB859 (base 16) Uniband Electronic Corp,
6F-1 No. Dongguang Rd.,
Hsinchu 300 300
TW

88-B1-E1 (hex) Mojo Networks, Inc.
88B1E1 (base 16) Mojo Networks, Inc.
339 N.Bernardo Ave
Mountain View CA 94043
US

D8-49-2F (hex) CANON INC.
D8492F (base 16) CANON INC.
30-2 Shimomaruko 3-chome,
Ohta-ku Tokyo 146-8501
JP

80-0E-24 (hex) ForgetBox
800E24 (base 16) ForgetBox
61 rue de Sèvres
Ville d'Avray IDF 92140
FR

18-FF-2E (hex) Shenzhen Rui Ying Da Technology Co., Ltd
18FF2E (base 16) Shenzhen Rui Ying Da Technology Co., Ltd
KaiXinda Electronic Science and Technology Park, Zhoushi Road 49,Shiyan Street,Baoan District,ShenZhen,China
shenzhen guangdong 518108

CN

84-72-07 (hex) I&C Technology
847207 (base 16) I&C Technology
24,Pangyo-ro 255beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do, 463-400,Korea
Seongnam-si Gyeonggi-do 463-400,Korea
US

3C-25-D7
(hex) Nokia Corporation
3C25D7 (base 16) Nokia Corporation
Joensuunkatu 7
Salo N.A. 24101
FI

30-A8-DB (hex) Sony Corporation
30A8DB (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

20-EA-C7 (hex) SHENZHEN RIOPINE ELECTRONICS CO., LTD
20EAC7 (base 16) SHENZHEN RIOPINE ELECTRONICS CO., LTD
ROOM1002~1004, BaoYuan HuaFeng Headquarters' Business Building, Xixiang Avenue (west) , Bao'an District
Shenzhen Guangdong 518000
CN

64-B3-70 (hex) PowerComm Solutions LLC
64B370 (base 16) PowerComm Solutions LLC
15 Minneakoning Rd. Suite 311
Flemington NJ 08822
US

5C-F5-0D (hex) Institute of microelectronic applications
5CF50D (base 16) Institute of microelectronic applications
Na Valentince 1003/1
Praha 15000
CZ

74-9C-52 (hex) Huizhou Desay SV Automotive Co., Ltd.
749C52 (base 16) Huizhou Desay SV Automotive Co., Ltd.
103, Hechang 5th
Road West,
Huizhou Guangdong 516006
CN

10-DE-E4 (hex) automationNEXT GmbH
10DEE4 (base 16) automationNEXT GmbH

Millennium Park 4
Lustenau Vorarlberg 6890
AT

F0-3A-4B (hex) Bloombase, Inc.
F03A4B (base 16) Bloombase, Inc.
1300 Island Dr Ste 103
Redwood City CA 94065
US

0C-4F-5A (hex) ASA-RT s.r.l.
0C4F5A (base 16) ASA-RT s.r.l.
Strada del Lionetto 16/a
Torino To 10146
IT

CC-A6-14 (hex) AIFA TECHNOLOGY CORP.
CCA614 (base 16) AIFA TECHNOLOGY CORP.
1F., No.230, Sec. 2, Bade Rd., Fongshan Dist.
Kaohsiung City Taiwan 83053
TW

90-F1-B0 (hex) Hangzhou Anheng Info&Tech CO.,LTD
90F1B0 (base 16) Hangzhou Anheng Info&Tech CO.,LTD
15F Zhongcai Bldg,#68 Tonghe Rd
Hangzhou Zhejiang 310051
CN

90-DB-46 (hex) E-LEAD ELECTRONIC CO., LTD
90DB46 (base 16) E-LEAD ELECTRONIC CO., LTD
NO.37, GUNGDUNG 1ST RD.
SHENGANG SHIANG CHANGHUA 50971
TW

54-D1-63 (hex) MAX-TECH,INC
54D163
(base 16) MAX-TECH,INC
2F, 26, 2gil, Dujeonggongdan
Cheonan Chungnam 331957
KR

48-B5-A7 (hex) Glory Horse Industries Ltd.
48B5A7 (base 16) Glory Horse Industries Ltd.
Woekshop 8, 4/F., World Wide Industrial Centre,
Shatin, N.T. HKG
HK

7C-E4-AA (hex) Private

7CE4AA (base 16) Private

08-3F-3E (hex) WSH GmbH
083F3E (base 16) WSH GmbH
Koelner Str. 58a
Gummersbach NRW 51645
DE

18-20-A6 (hex) Sage Co., Ltd.
1820A6 (base 16) Sage Co., Ltd.
2-24 Sumiyoshicho, Naka-ku
Yokohama-shi Kanagawa 231-0013
JP

4C-8B-30 (hex) Actiontec Electronics, Inc
4C8B30 (base 16) Actiontec Electronics, Inc
3301 Olcott St.
Santa Clara CA 95054
US

08-05-CD (hex) DongGuang EnMai Electronic Product Co.Ltd.
0805CD (base 16) DongGuang EnMai Electronic Product Co.Ltd.
701 7th Floor,YiFeng Building,
DongGuang GuangDong Province 523843
CN

2C-07-3C (hex) DEVLINE
LIMITED
2C073C (base 16) DEVLINE LIMITED
FLAT/RM A9,9/F SILVERCORP INT TOWER
HONGKONG 999077
CN

7C-1A-03 (hex) 8Locations Co., Ltd.
7C1A03 (base 16) 8Locations Co., Ltd.
1F, No. 123, Chenggong 2rd Street
Zhube City Hsinchu 302
TW

34-4F-5C (hex) R&M AG
344F5C (base 16) R&M AG
Binzstrasse 32
Wetzikon Zurich 8620
CH

D4-22-4E (hex) Alcatel Lucent
D4224E (base 16) Alcatel Lucent
Via Energy Park, 14

Vimercate MB 20871
IT

9C-86-DA (hex) Phoenix Geophysics Ltd.
9C86DA (base 16) Phoenix Geophysics Ltd.
3781 Victoria Park Ave.
Toronto ON M1W 3K5
CA

60-47-D4 (hex) FORICS Electronic Technology Co., Ltd.
6047D4 (base 16) FORICS Electronic Technology Co., Ltd.
BLD 2A, No 1588, Lianhang Rd
Shanghai 201112
CN

FC-F8-B7 (hex) TRONTEQ Electronic
FCF8B7 (base 16) TRONTEQ Electronic
Siemensstrasse 22
Reutlingen Baden Wuerttemberg 72766
DE

30-F4-2F
(hex) ESP
30F42F (base 16) ESP
126-1 Pyeongchon-dong, Dongan-gu
Anyang-si Gyeonggi-do 431-755
KR

70-4E-01 (hex) KWANGWON TECH CO., LTD.
704E01 (base 16) KWANGWON TECH CO., LTD.
D-401, Digital-Empire Bldg., 980-3
Suwon Gyeonggi-Do 443-702
KR

74-6A-8F (hex) VS Vision Systems GmbH
746A8F (base 16) VS Vision Systems GmbH
Aspelohe 27A
Norderstedt Schleswig-Holstein 22848
DE

54-A3-1B (hex) Shenzhen Linkworld Technology Co,.LTD
54A31B (base 16) Shenzhen Linkworld Technology Co,.LTD
Room 667-675 , sixth floor ,
Shenzhen Guangdong 518055
CN

CC-39-8C (hex) Shiningtek
CC398C (base 16) Shiningtek

No. 53, Nankeng 3 St
Hsinchu 30841
TW

6C-5F-1C (hex) Lenovo Mobile Communication Technology Ltd.
6C5F1C (base 16) Lenovo Mobile Communication Technology Ltd.
No.999, Qishan North 2nd Road,
Xiamen 361000 Fujian
US

C0-C5-69 (hex) SHANGHAI LYNUC CNC TECHNOLOGY CO.,LTD
C0C569 (base 16) SHANGHAI LYNUC CNC TECHNOLOGY CO.,LTD
Building 3,No.25 Cangwu Rd
Shanghai 200233
CN

C4-C0-AE (hex) MIDORI ELECTRONIC CO., LTD.
C4C0AE (base 16) MIDORI ELECTRONIC CO., LTD.
397
Chikuma Nagano 389-0804
JP

AC-C5-95 (hex) Graphite Systems
ACC595 (base 16) Graphite Systems
2037 Landings Drive
Mountain View California 94043
US

7C-E1-FF (hex) Computer Performance, Inc. DBA Digital Loggers, Inc.
7CE1FF (base 16) Computer Performance, Inc. DBA Digital Loggers, Inc.
2695 Walsh Avenue
Santa Clara CA 95051
US

D8-15-0D (hex) TP-LINK TECHNOLOGIES CO.,LTD.
D8150D (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

58-50-AB (hex) TLS Corporation
5850AB (base 16) TLS Corporation
1241 Superior Ave.
Cleveland OH 44114
US

CC-85-6C

(hex) SHENZHEN MDK DIGITAL TECHNOLOGY CO.,LTD
CC856C (base 16) SHENZHEN MDK DIGITAL TECHNOLOGY CO.,LTD
Xin fengze industrial park,shangnan east road
SHENZHEN GUANGDONG 518101
CN

D8-EE-78 (hex) Moog Protokraft
D8EE78 (base 16) Moog Protokraft
4545 W Stone Dr Bldg 135
Kingsport TN 37660
US

48-3D-32 (hex) Syscor Controls & Automation
483D32 (base 16) Syscor Controls & Automation
201-60 Bastion Sq
Victoria BC V8W 1J2
CA

A0-E4-53 (hex) Sony Corporation
A0E453 (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

40-4A-18 (hex) Addrek Smart Solutions
404A18 (base 16) Addrek Smart Solutions
Al Gharrafa Thani Bin Jassim St
Doha
QA

C4-29-1D (hex) KLEMSAN ELEKTRIK ELEKTRONIK SAN.VE TIC.AS.
C4291D (base 16) KLEMSAN ELEKTRIK ELEKTRONIK SAN.VE TIC.AS.
kemalpasa yolu 3.km KEMALPASA 35170
izmir TURKIYE -- 35170
TR

24-11-48 (hex) Entropix,
LLC
241148 (base 16) Entropix, LLC
100 Rawson Road
Victor New York 14564
US

4C-D7-B6 (hex) Helmer Scientific
4CD7B6 (base 16) Helmer Scientific
14400 Bergen Boulevard
Noblesville Indiana 46060
US

84-25-A4 (hex) Tariox Limited
8425A4 (base 16) Tariox Limited
173 Highway 53
Cathcart Ontario N0E 1B0
CA

2C-95-7F (hex) zte corporation
2C957F (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

3C-0C-48 (hex) Servergy, Inc.
3C0C48 (base 16) Servergy, Inc.
1700 N. Redbud
McKinney TEXAS 75069
US

C4-45-EC (hex) Shanghai Yali Electron Co.,LTD
C445EC (base 16) Shanghai Yali Electron Co.,LTD
Room 1-607
Shanghai Shanghai 201100
US

E0-E6-31 (hex) SNB TECHNOLOGIES LIMITED
E0E631 (base 16) SNB TECHNOLOGIES LIMITED
Rm 303, Building #13,
Long Gang district, ShenZhen GuangDong 518000
CN

F8-57-2E
(hex) Core Brands, LLC
F8572E (base 16) Core Brands, LLC
5919 Sea Otter Place
Carlsbad CA 92010
US

78-B5-D2 (hex) Ever Treasure Industrial Limited
78B5D2 (base 16) Ever Treasure Industrial Limited
15A Tung Lee Commercial Building
Sheung Wan 852
HK

1C-C1-1A (hex) Wavetronix
1CC11A (base 16) Wavetronix
78 East 1700 South
Provo UT 84606

US

90-02-8A (hex) Shenzhen Shidean Legrand Electronic Products Co.,Ltd
90028A (base 16) Shenzhen Shidean Legrand Electronic Products Co.,Ltd
Block39,Shahe Industrial Zone Baishizhou
Guangdong 518053
CN

CC-74-98 (hex) Filmetrics Inc.
CC7498 (base 16) Filmetrics Inc.
3560 Dunhill Street, #100
San Diego CA 92121
US

BC-EE-7B (hex) ASUSTek COMPUTER INC.
BCEE7B (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

34-13-A8 (hex) Mediplan Limited
3413A8 (base 16) Mediplan
Limited
245 Sheffield Road
Sheffield South Yorkshire S13 9ZD
GB

FC-09-D8 (hex) ACTEON Group
FC09D8 (base 16) ACTEON Group
ZAC Athelia IV
La Ciotat France 13705
FR

74-3E-CB (hex) Gentrice tech
743ECB (base 16) Gentrice tech
15F No.738-5 JhengJhong Rd
New Taipei city 235
TW

98-FF-6A (hex) OTEC(Shanghai)Technology Co.,Ltd.
98FF6A (base 16) OTEC(Shanghai)Technology Co.,Ltd.
13th Floor,Building 2
Shanghai 200235
CN

7C-CD-11 (hex) MS-Magnet
7CCD11 (base 16) MS-Magnet
Parchevich 42

Sofia 1000
BG

BC-1A-67 (hex) YF Technology Co., Ltd
BC1A67 (base 16) YF Technology Co., Ltd
No.62,South Fumin Road,
Dongguang Guangdong 523773
CN

AC-6B-AC (hex) Jenny Science AG
AC6BAC (base 16) Jenny Science AG
Sandblatte 7a
Rain Luzern 6026
CH

7C-97-63 (hex) Openmatics s.r.o.
7C9763 (base 16) Openmatics s.r.o.
Podebradova 2842/1
Pilsen Tschechien
30100
CZ

48-A2-B7 (hex) Kodofon JSC
48A2B7 (base 16) Kodofon JSC
97 Moskovskyi pr.
Voronezh 394077
RU

04-44-A1 (hex) TELECON GALICIA,S.A.
0444A1 (base 16) TELECON GALICIA,S.A.
AVENIDA DE NOSTIAN
A CORUNA 15008
ES

20-C6-0D (hex) Shanghai annijie Information technology Co.,LTD
20C60D (base 16) Shanghai annijie Information technology Co.,LTD
Room605,NO.9,Lane 777
Shanghai 200070
CN

E0-C8-6A (hex) SHENZHEN TW-SCIE Co., Ltd
E0C86A (base 16) SHENZHEN TW-SCIE Co., Ltd
816# DongMing Building MinKang Road
Shenzhen Guangdong 518000
CN

18-79-A2 (hex) GMJ ELECTRIC LIMITED
1879A2 (base 16) GMJ ELECTRIC LIMITED

RM 1405, 14/F, C C WU BUILDING
999077
HK

38-CA-97 (hex) Contour Design LLC
38CA97 (base 16) Contour Design LLC
10 Industrial Drive
Windham NH 03087
US

BC-2D-98 (hex) ThinGlobal LLC
BC2D98 (base 16) ThinGlobal LLC
703 wildflower
RD
Davenport FL 33837
US

50-ED-78 (hex) Changzhou Yongse Infotech Co.,Ltd
50ED78 (base 16) Changzhou Yongse Infotech Co.,Ltd
No.128 Zhengzhong Rd, Xixiashua Town
Changzhou Jiangsu 213135
CN

08-5A-E0 (hex) Recovision Technology Co., Ltd.
085AE0 (base 16) Recovision Technology Co., Ltd.
1709No.5 Wanghai Road,
Xiamen Fujian 361006
CN

7C-44-4C (hex) Entertainment Solutions, S.L.
7C444C (base 16) Entertainment Solutions, S.L.
Parque Empresarial Miraflores, nave 3
Zaragoza 50720
ES

9C-D6-43 (hex) D-Link International
9CD643 (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

3C-18-A0 (hex) Luxshare Precision Industry Company Limited
3C18A0 (base 16) Luxshare Precision Industry Company Limited
Floor 2, Block A, Sanyo New Industrial Area
West Haoyi Community, Shajing Subdistrict Office Bao'an District, Shenzhen, Guangdong
523000
CN

94-E9-8C (hex) Nokia
94E98C (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

8C-AE-89 (hex) Y-cam Solutions Ltd
8CAE89 (base 16) Y-cam Solutions Ltd
3 dee road
Richmond Surrey TW9 2JN
GB

FC-E1-D9 (hex) Stable Imaging Solutions LLC
FCE1D9 (base 16) Stable Imaging Solutions LLC
3709 Old Conejo Rd
Newbury Park CA 91320
US

B0-45-45 (hex) YACOUB Automation GmbH
B04545 (base 16) YACOUB Automation GmbH
Gustav Meyer Allee 25
Berlin 13355
DE

C8-EE-75 (hex) Pishion International Co. Ltd
C8EE75 (base 16) Pishion International Co. Ltd
3F,NO,15-2,Beihuan Rd
Taichung City 42760
TW

CC-34-29 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
CC3429 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

94-C3-E4 (hex) Atlas Copco
IAS GmbH
94C3E4 (base 16) Atlas Copco IAS GmbH
Gewerbestr. 52
Bretten-Goelshausen 75015
DE

20-E7-91 (hex) Siemens Healthcare Diagnostics, Inc
20E791 (base 16) Siemens Healthcare Diagnostics, Inc
2 Edgewater Drive
Norwood MA 02062
US

08-97-58 (hex) Shenzhen Strong Rising Electronics Co.,Ltd DongGuan Subsidiary
089758 (base 16) Shenzhen Strong Rising Electronics Co.,Ltd DongGuan Subsidiary
QingPing Road 2,Qinghutou village
DongGuan GuangDong 523711
CN

FC-19-D0 (hex) Cloud Vision Networks Technology Co.,Ltd.
FC19D0 (base 16) Cloud Vision Networks Technology Co.,Ltd.
F/9,Hechuan Building 2016
Shanghai 201103
CN

94-86-D4 (hex) Surveillance Pro Corporation
9486D4 (base 16) Surveillance Pro Corporation
12F., No.4, Ln. 609, Sec. 5, Chongxin Rd., Sanchong Dist.
New Taipei City 241
US

28-47-AA (hex) Nokia Corporation
2847AA (base 16) Nokia Corporation
Joensuunkatu 7
Salo
N.A. 24101
FI

5C-D6-1F (hex) Qardio, Inc
5CD61F (base 16) Qardio, Inc
340 S Lemon Ave #1104F
Walnut California 91789
US

68-2D-DC (hex) Wuhan Changjiang Electro-Communication Equipment CO.,LTD
682DDC (base 16) Wuhan Changjiang Electro-Communication Equipment CO.,LTD
No.8,Yinghu Sience&Technology industrial park
Wuhan Hubei 430040
CN

64-BA-BD (hex) SDJ Technologies, Inc.
64BABD (base 16) SDJ Technologies, Inc.
2125-B Madera Road
Simi Valley CA 93065
US

24-C8-48 (hex) mywerk Portal GmbH
24C848 (base 16) mywerk Portal GmbH
Fabrikstr. 3
Gronau 48599

DE

B4-24-E7 (hex) Codetek Technology Co.,Ltd
B424E7 (base 16) Codetek Technology Co.,Ltd
4F.-1, No.55, Dongguang Rd., East Dist.,
Hsinchu City 300
TW

54-2F-89 (hex) Euclid Laboratories, Inc.
542F89 (base 16) Euclid Laboratories, Inc.
9151 Arvida Ln
Coral Gables Florida 33156
US

7C-BF-88 (hex) Mobilicom
LTD
7CBF88 (base 16) Mobilicom LTD
Hametzoda 31
Azor 5800174
IL

60-DB-2A (hex) HNS
60DB2A (base 16) HNS
345-50, Gasan-dong, Geumcheon-gu, Seoul, Korea[153-707]
Seoul The Seoul Metropolis 82
KR

CC-FB-65 (hex) Nintendo Co., Ltd.
CCFB65 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

A0-A2-3C (hex) GPMS
A0A23C (base 16) GPMS
40 Ridge Rd
Cornwall VT 05753
US

68-FC-B3 (hex) Next Level Security Systems, Inc.
68FCB3 (base 16) Next Level Security Systems, Inc.
6353 Corte Del Abeto
Carlsbad CA 92011
US

9C-44-3D (hex) CHENGDU XUGUANG TECHNOLOGY CO, LTD
9C443D (base 16) CHENGDU XUGUANG TECHNOLOGY CO, LTD
2ND SECTION,PARK ROAD

CHENGDU SICHUAN 610100
CN

FC-D8-17 (hex) Beijing Hesun Technologies Co.Ltd.
FCD817 (base 16) Beijing Hesun Technologies Co.Ltd.
Room 1811, 18th floor, Building No. 4, Courtyard
1, Shangdi tenth Street
Beijing 100085
CN

34-88-5D (hex) Logitech Far East
34885D (base 16) Logitech Far East
#2 Creation Rd. 4,
Hsinchu 300
TW

88-57-6D (hex) XTA Electronics Ltd
88576D (base 16) XTA Electronics Ltd
The Design House
Stourport-on-Severn Worcestershire DY13 9BZ
GB

BC-41-00 (hex) CODACO ELECTRONIC s.r.o.
BC4100 (base 16) CODACO ELECTRONIC s.r.o.
Hemy 825
Valasske Mezirici 75701
CZ

E8-61-1F (hex) Dawning Information Industry Co.,Ltd
E8611F (base 16) Dawning Information Industry Co.,Ltd
NO.15 Huake Street,Hi-Tech Zone
Tianjin 300384
CN

70-59-57 (hex) Medallion Instrumentation Systems
705957 (base 16) Medallion Instrumentation Systems
17150 Hickory St
Spring Lake MI 49456
US

60-A9-B0 (hex) Merchandising Technologies, Inc
60A9B0 (base 16) Merchandising Technologies, Inc
1050 NW 229th Avenue
HIllsboro OR 97124
US

50-27-C7

(hex) TECHNART Co.,Ltd
5027C7 (base 16) TECHNART Co.,Ltd
2-21 Nishiohjicho
Kusatsu Shiga 525-0037
JP

6C-5A-B5 (hex) TCL Technoly Electronics (Huizhou) Co., Ltd.
6C5AB5 (base 16) TCL Technoly Electronics (Huizhou) Co., Ltd.
19th Zhongkai Hi-tech Development Zone
Huizhou Guangdong 516006
CN

B4-3E-3B (hex) Viableware, Inc
B43E3B (base 16) Viableware, Inc
12220 113th Ave NE
Kirkland WA 98034
US

34-A3-BF (hex) Terewave. Inc.
34A3BF (base 16) Terewave. Inc.
Room 217, Ssangyong Research Center
Yuseong-gu Daejeon-city 305804
KR

8C-08-8B (hex) Remote Solution
8C088B (base 16) Remote Solution
92, Chogokri, Nammyun
Kimcheon city Kyungbuk 740-871
KR

EC-3E-09 (hex) PERFORMANCE DESIGNED PRODUCTS, LLC
EC3E09 (base 16) PERFORMANCE DESIGNED PRODUCTS, LLC
14144 Ventura Blvd
Sherman Oaks California 91423
US

0C-5C-D8 (hex) DOLI Elektronik GmbH
0C5CD8 (base 16) DOLI
Elektronik GmbH
Adi-Maislinger-Str. 7
Munich 81373
DE

3C-15-EA (hex) TESCOM CO., LTD.
3C15EA (base 16) TESCOM CO., LTD.
#928 UTV, 1141-2 Baeksuk Ilsandong
Goyang Gyeonggi 410-722
KR

E8-04-10 (hex) Private
E80410 (base 16) Private

90-99-16 (hex) ELVEES NeoTek OJSC
909916 (base 16) ELVEES NeoTek OJSC
Proezd 4922, dom 4, stroenie 2
Moscow Zelenograd 124498
RU

A0-14-3D (hex) PARROT SA
A0143D (base 16) PARROT SA
174 Quai de Jemmapes
Paris 75010
FR

FC-1B-FF (hex) V-ZUG AG
FC1BFF (base 16) V-ZUG AG
Industriestrasse 66
Zug 6301
CH

00-A2-FF (hex) abatec group AG
00A2FF (base 16) abatec group AG
Oberregauerstraße 48
Regau 4844
AT

60-24-C1 (hex) Jiangsu Zhongxun Electronic Technology Co., Ltd
6024C1 (base 16) Jiangsu Zhongxun Electronic Technology Co., Ltd
tangshu road #8
yixing jiangsu 214221
CN

DC-C4-22 (hex) Systembase Limited
DCC422
(base 16) Systembase Limited
Jupes Field House, Pettridge Lane
Warminster Wiltshire BA12 6DG
GB

C8-F3-6B (hex) Yamato Scale Co.,Ltd.
C8F36B (base 16) Yamato Scale Co.,Ltd.
5-22
Akashi Hyogo 673-8688
JP

6C-D1-B0 (hex) WING SING ELECTRONICS HONG KONG LIMITED

6CD1B0 (base 16) WING SING ELECTRONICS HONG KONG LIMITED
No. 1, Guoyuan Industrial Zone
Guangzhou Guang Dong 510385
CN

98-F8-C1 (hex) IDT Technology Limited
98F8C1 (base 16) IDT Technology Limited
Block C, 9/F.,Kaiser Estate, Phase 1,
Kowloon Hong Kong
HK

A4-F5-22 (hex) CHOFU SEISAKUSHO CO.,LTD
A4F522 (base 16) CHOFU SEISAKUSHO CO.,LTD
2-1
Shimonoseki-shi Yamaguchi 752-8555
JP

84-5C-93 (hex) Chabrier Services
845C93 (base 16) Chabrier Services
354 Chemin de la Pinatte
Saint-Peray 07130
FR

F4-BD-7C (hex) Chengdu jinshi communication Co., LTD
F4BD7C (base 16) Chengdu jinshi communication
Co., LTD
No. 108 #1-2-505, Eastern 5 Section, First Ring Road, JinJiang District,
Chengdu Chongqing 610000
CN

68-E1-66 (hex) Private
68E166 (base 16) Private

60-FE-F9 (hex) Thomas & Betts
60FEF9 (base 16) Thomas & Betts
5900 Eastport Blvd
Richmond VA 23231
US

B8-DC-87 (hex) IAI Corporation
B8DC87 (base 16) IAI Corporation
577-1 Obane
Shizuoka-City Shizuoka 424-0103
JP

7C-6F-F8 (hex) ShenZhen ACTO Digital Video Technology Co.,Ltd.
7C6FF8 (base 16) ShenZhen ACTO Digital Video Technology Co.,Ltd.
3/F,Building 7,Software Park

ShenZhen GuangDong 518055
CN

DC-F7-55 (hex) SITRONIK
DCF755 (base 16) SITRONIK
22 MARISCHAL GARDENS
ABERDEEN ABERDEENSHIRE AB21 9BY
GB

BC-2B-D7 (hex) Revogi Innovation Co., Ltd.
BC2BD7 (base 16) Revogi Innovation Co., Ltd.
2018, Anhui Building, No. 6007,
Shenzhen, Guangdong 518113
CN

28-6D-97 (hex) SAMJIN Co., Ltd.
286D97
(base 16) SAMJIN Co., Ltd.
199-6, Anyang 7-dong, Manan-gu
Anyang-si Gyeonggi-do 430-817
KR

94-7C-3E (hex) Polewall Norge AS
947C3E (base 16) Polewall Norge AS
Vige Havnevei 78
Kristiansand Vest-Agder 4633
NO

38-5A-A8 (hex) Beijing Zhongdun Security Technology Development Co.
385AA8 (base 16) Beijing Zhongdun Security Technology Development Co.
No.1 Capital Gymnasium South Road
Beijing 100048
CN

F4-A2-94 (hex) EAGLE WORLD DEVELOPMENT CO., LIMITED
F4A294 (base 16) EAGLE WORLD DEVELOPMENT CO., LIMITED
1F, CMA Bldg., 64 Connaught Road Central
Hong Kong 00852
HK

F4-28-96 (hex) SPECTO PAINEIS ELETRONICOS LTDA
F42896 (base 16) SPECTO PAINEIS ELETRONICOS LTDA
RUA WALTER JOSE CORREA, AREA 12
SAO JOSE SANTA CATARINA 88122-035
BR

78-CB-33 (hex) DHC Software Co.,Ltd
78CB33 (base 16) DHC Software Co.,Ltd

16/F,DHC Mansion No.3 Zijin
Beijing 100190
CN

24-EC-D6
(hex) CSG Science & Technology Co.,Ltd.Hefei
24ECD6 (base 16) CSG Science & Technology Co.,Ltd.Hefei
No.612-1,Huangshan Road,Gaoxin District
Hefei Anhui Province 230088
CN

1C-48-F9 (hex) GN Netcom A/S
1C48F9 (base 16) GN Netcom A/S
Lautrupbjerg 7
Ballerup Ballerup DK-2750
DK

9C-4E-BF (hex) BoxCast
9C4EBF (base 16) BoxCast
14538 Grapeland Ave
Cleveland Ohio 44111
US

34-A8-43 (hex) KYOCERA Display Corporation
34A843 (base 16) KYOCERA Display Corporation
5-7-18 Higashinippori
Arakawa-ku Tokyo 116-0014
JP

80-BB-EB (hex) Satmap Systems Ltd
80BBEB (base 16) Satmap Systems Ltd
4 Fountain House
Leatherhead Surrey KT22 7LX
GB

00-B7-8D (hex) Nanjing Shining Electric Automation Co., Ltd
00B78D (base 16) Nanjing Shining Electric Automation Co., Ltd
NO.699,Laiyinda Road
Nanjing Jiangsu 211100
CN

A0-5B-21 (hex) ENVINET GmbH
A05B21 (base 16) ENVINET GmbH
Hans-Pinsel-Str.
4
Haar 85540
DE

5C-02-6A (hex) Applied Vision Corporation
5C026A (base 16) Applied Vision Corporation
2020 Vision Lane
Cuyahoga Falls OH 44223
US

0C-93-01 (hex) PT. Prasimax Inovasi Teknologi
0C9301 (base 16) PT. Prasimax Inovasi Teknologi
Jl. Margonda Raya 494D
Depok Jawa Barat 16424
ID

74-66-30 (hex) T:mi Ytti
746630 (base 16) T:mi Ytti
Messitytonkatu 8 C 39
Helsinki n/a 00180
FI

6C-B3-50 (hex) Anhui comhigher tech co.,ltd
6CB350 (base 16) Anhui comhigher tech co.,ltd
B6,717 Zhongshan South Road
Wuhu Anhui 241000
CN

38-59-F8 (hex) MindMade Sp. z o.o.
3859F8 (base 16) MindMade Sp. z o.o.
Sniadeckich 10
Warsaw 00-656
PL

E8-92-18 (hex) Arcontia International AB
E89218 (base 16) Arcontia International AB
Gruvgatan 35A
Vastra Frolunda 421 30
SE

00-75-E1 (hex) Ampt, LLC
0075E1 (base 16) Ampt, LLC
4850 Innovation
Drive
Fort Collins Colorado 80525
US

D4-6A-91 (hex) SnapAV
D46A91 (base 16) SnapAV
1800 Continental Blvd
Charlotte 28273
US

B0-79-3C (hex) Revolv Inc
B0793C (base 16) Revolv Inc
2060 Broadway #380
Boulder CO 80302
US

4C-DF-3D (hex) TEAM ENGINEERS ADVANCE TECHNOLOGIES INDIA PVT LTD
4CDF3D (base 16) TEAM ENGINEERS ADVANCE TECHNOLOGIES INDIA PVT LTD
A-1/2/A,IDA UPPAL,
HYDERABAD AP 500039
IN

98-CD-B4 (hex) Virident Systems, Inc.
98CDB4 (base 16) Virident Systems, Inc.
500 Yosemite Dr.
Milpitas CA 95035
US

A4-23-05 (hex) Open Networking Laboratory
A42305 (base 16) Open Networking Laboratory
1000 El Camino Real
Menlo Park CA 94025
US

CC-2A-80 (hex) Micro-Biz intelligence solutions Co.,Ltd
CC2A80 (base 16) Micro-Biz intelligence solutions Co.,Ltd
Room 611,Sunshine Building
Zhuhai City Guangdong Province 519000
CN

34-CD-6D (hex) CommSky Technologies
34CD6D
(base 16) CommSky Technologies
4655 Old Ironsides Dr
Santa Clara CA 95054
US

B0-FE-BD (hex) Private
B0FEBD (base 16) Private

60-69-9B (hex) isepos GmbH
60699B (base 16) isepos GmbH
Wannweiler Str. 12
Kirchentellinsfurt 72138
US

D4-D5-0D (hex) Southwest Microwave, Inc

D4D50D (base 16) Southwest Microwave, Inc
9055 S McKemy St
Tempe AZ 85284
US

E4-38-F2 (hex) Advantage Controls
E438F2 (base 16) Advantage Controls
4700 Harold Abitz Dr.
Muskogee OK 74403
US

C4-C7-55 (hex) Beijing HuaqinWorld Technology Co.,Ltd
C4C755 (base 16) Beijing HuaqinWorld Technology Co.,Ltd
30F,Beijing Silver Tower,No.2 North Road,
Beijing 100027
CN

0C-2D-89 (hex) QiiQ Communications Inc.
0C2D89 (base 16) QiiQ Communications Inc.
30 East Beaver Creek Road
Richmond Hill Ontario L4B 1J2
CA

A8-D2-36 (hex) Lightware Visual Engineering
A8D236 (base 16) Lightware
Visual Engineering
Peterdy utca 15.
Budapest H-1071
HU

4C-55-B8 (hex) Turkcell Teknoloji
4C55B8 (base 16) Turkcell Teknoloji
TUBITAK MAM Teknoloji Serbest Bolgesi Gebze
Kocaeli 41470
TR

78-8D-F7 (hex) Hitron Technologies. Inc
788DF7 (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

94-50-47 (hex) Rechnerbetriebsgruppe
945047 (base 16) Rechnerbetriebsgruppe
Werner von Siemens Str. 64
Würzburg Bayern 97076
DE

E0-31-D0 (hex) SZ Telstar CO., LTD
E031D0 (base 16) SZ Telstar CO., LTD
Telstar Technology Park No.12&14, Longtong Industrial Zone
Shenzhen Guangdong 518172
CN

54-11-2F (hex) Sulzer Pump Solutions Finland Oy
54112F (base 16) Sulzer Pump Solutions Finland Oy
Lentokentaentie 44
Lappeenranta FI-53600
FI

08-80-39 (hex) Cisco SPVTG
088039 (base 16) Cisco SPVTG
5030
Sugarloaf Parkway
Lawrenceville GA 30044
US

98-10-94 (hex) Shenzhen Vsun communication technology Co.,ltd
981094 (base 16) Shenzhen Vsun communication technology Co.,ltd
Room 1903, Block A,
Shenzhen Guangdong 518000
CN

A4-F3-C1 (hex) Open Source Robotics Foundation, Inc.
A4F3C1 (base 16) Open Source Robotics Foundation, Inc.
419 N Shoreline Blvd
Mountain View CA 94043
US

14-13-30 (hex) Anakreon UK LLP
141330 (base 16) Anakreon UK LLP
5-th Floor
London EC3V 0EH
GB

74-CA-25 (hex) Calxeda, Inc.
74CA25 (base 16) Calxeda, Inc.
7000 North Mopac Expressway
Austin TX 78731
US

B4-34-6C (hex) MATSUNICHI DIGITAL TECHNOLOGY (HONG KONG) LIMITED
B4346C (base 16) MATSUNICHI DIGITAL TECHNOLOGY (HONG KONG) LIMITED
22/F. TWO INTERNATIONAL FINANCE CTR
Hong Kong Hong Kong 999077
HK

90-46-B7 (hex) Vadaro Pte Ltd
9046B7 (base 16) Vadaro Pte Ltd
71 Ayer Rajah Crescent

139951
SG

04-CF-25 (hex) MANYCOLORS, INC.
04CF25 (base 16) MANYCOLORS, INC.
3F, 4-1-18 Jinnoharu
Kitakyushu Fukuoka 8070821
JP

B0-50-BC (hex) SHENZHEN BASICOM ELECTRONIC CO.,LTD.
B050BC (base 16) SHENZHEN BASICOM ELECTRONIC CO.,LTD.
Basicom industry park, Baolong Avenue 3rd Road, Baolong industry town
Shenzhen Guangdong 518116
CN

84-1E-26 (hex) KERNEL-I Co.,LTD
841E26 (base 16) KERNEL-I Co.,LTD
#606,ACE Techno Tower 10,470-5
Gasan-Dong, Geumcheon-gu, Seoul Korea 153-789
KR

DC-70-14 (hex) Private
DC7014 (base 16) Private

50-B8-A2 (hex) ImTech Technologies LLC,
50B8A2 (base 16) ImTech Technologies LLC,
2101 NE Jack London St
Corvallis Oregon 97330
US

B0-4C-05 (hex) Fresenius Medical Care Deutschland GmbH
B04C05 (base 16) Fresenius Medical Care Deutschland GmbH
Hafenstr. 9
Schweinfurt 97424
DE

5C-A3-EB (hex) Lokel s.r.o.
5CA3EB (base 16) Lokel
s.r.o.
Moravska 797/85
Ostrava Moravskoslezsky 700 30
CZ

E4-F3-E3 (hex) Shanghai iComhome Co.,Ltd.
E4F3E3 (base 16) Shanghai iComhome Co.,Ltd.
Small second floor of No.773 Siping Road
Shanghai 200092
CN

00-86-A0 (hex) Private
0086A0 (base 16) Private

60-FE-1E (hex) China Palms Telecom.Ltd
60FE1E (base 16) China Palms Telecom.Ltd
2nd Floor of Building 1
PuDong District Shanghai 201203
US

04-BF-A8 (hex) ISB Corporation
04BFA8 (base 16) ISB Corporation
1-2-1 Shinyokohama, Kohoku-ku
Yokohama Kanagawa 222-0033
JP

8C-C7-D0 (hex) zhejiang ebang communication co.,ltd
8CC7D0 (base 16) zhejiang ebang communication co.,ltd
1418-36#,Moganshan Road
hangzhou zhejiang 310013
CN

B8-AE-6E (hex) Nintendo Co., Ltd.
B8AE6E (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

D0-EB-03 (hex) Zhehua technology limited
D0EB03
(base 16) Zhehua technology limited
Room 2206,No 1079,A,ZhanTao Technology Building, MinZhi Street, Longhua District
Tortoal British Virgin Island,Hong Kong Shenzhen,Guang Dong 518131
CN

68-3E-EC (hex) ERECA
683EEC (base 16) ERECA
75, Rue d'Orgemont
Saint GRATIEN 95210
FR

0C-2A-E7 (hex) Beijing General Research Institute of Mining and Metallurgy
0C2AE7 (base 16) Beijing General Research Institute of Mining and Metallurgy

Building 23, Zone 18 of ABP, No. 188
Beijing 100160
CN

98-30-71 (hex) DAIKYUNG VASCOM
983071 (base 16) DAIKYUNG VASCOM
DAIKYUNG Bldg.#1164-15,Gaepo-dong
Gangnam-gu Seoul 135-960
KR

D4-95-24 (hex) Clover Network, Inc.
D49524 (base 16) Clover Network, Inc.
415 N Mathilda Ave
Sunnyvale CA 94085
US

0C-04-00 (hex) Jantar d.o.o.
0C0400 (base 16) Jantar d.o.o.
Kranjska cesta 24
Naklo Slovenia 4202
SI

68-7C-D5 (hex) Y Soft Corporation,
a.s.
687CD5 (base 16) Y Soft Corporation, a.s.
Technicka 2948/13
Brno Czech Republic 616 00
CZ

C0-4D-F7 (hex) SERELEC
C04DF7 (base 16) SERELEC
2, Chemin du Génie
VENISSIEUX CEDEX 69633
FR

50-A7-15 (hex) Aboundi, Inc.
50A715 (base 16) Aboundi, Inc.
4 Bud Way, Unit 10
Nashua NH 03063
US

C4-26-28 (hex) Airo Wireless
C42628 (base 16) Airo Wireless
12 Piedmont Center
Atlanta GA 30305
US

30-AA-BD (hex) Shanghai Reallytek Information Technology Co.,Ltd

30AABD (base 16) Shanghai Reallytek Information Technology Co.,Ltd
Building No.1-906, No.3000 Long Dong Avenue
Shanghai 201203
CN

A4-B8-18 (hex) PENTA Gesellschaft für elektronische Industriedatenverarbeitung mbH
A4B818 (base 16) PENTA Gesellschaft für elektronische Industriedatenverarbeitung mbH
Ulrichsberger Str. 17
Deggendorf 94469
DE

0C-84-84 (hex) Zenovia Electronics Inc.
0C8484 (base 16) Zenovia
Electronics Inc.
#206, 506B St. Albert Rd.
St. Albert AB T8N 5Z1
CA

00-59-07 (hex) LenovoEMC Products USA, LLC
005907 (base 16) LenovoEMC Products USA, LLC
22 South St
Hopinkton MA 01748
US

A8-61-AA (hex) Cloudview Limited
A861AA (base 16) Cloudview Limited
Kingsway House
St Peter Port Guernsey GY1 2QE
GB

0C-F4-05 (hex) Beijing Signalway Technologies Co.,Ltd
0CF405 (base 16) Beijing Signalway Technologies Co.,Ltd
Room B 1905,Tri-tower
Haidian District Beijing 100190
CN

50-61-D6 (hex) Indu-Sol GmbH
5061D6 (base 16) Indu-Sol GmbH
Blumenstr. 3
Schmölln Thüringen 04626
DE

FC-11-86 (hex) Logic3 plc
FC1186 (base 16) Logic3 plc
Rhodes Way
Watford Hertfordshire WD24 4YW
GB

C8-B3-73 (hex) Cisco-Linksys, LLC
C8B373 (base 16) Cisco-Linksys, LLC
121 Theory Drive
Irvine California 92612
US

2C-24-5F (hex) Babolat VS
2C245F (base 16) Babolat
VS
93 rue Andre Bollier
Lyon 69007
FR

90-56-92 (hex) Autotalks Ltd.
905692 (base 16) Autotalks Ltd.
Kfar Netter
Israel 40593
IL

C8-EE-A6 (hex) Shenzhen SHX Technology Co., Ltd
C8EEA6 (base 16) Shenzhen SHX Technology Co., Ltd
6F,No.10 buliding,JiuXiangling Industial Zone,Xili,
Shenzhen Guangdong 518055
CN

24-81-AA (hex) KSH International Co., Ltd.
2481AA (base 16) KSH International Co., Ltd.
2F, No.17 Minsheng Rd, Xindian Dist.,
New Taipei City 23150
US

E0-18-77 (hex) FUJITSU LIMITED
E01877 (base 16) FUJITSU LIMITED
403, Kosugi-cho 1-chome, Nakahara-ku
Kawasaki Kanagawa 211-0063
JP

E4-57-A8 (hex) Stuart Manufacturing, Inc.
E457A8 (base 16) Stuart Manufacturing, Inc.
1615 East Wallace Street
Fort Wayne Indiana 46803
US

4C-CC-34 (hex) Motorola Solutions Inc.
4CCC34 (base 16) Motorola Solutions Inc.
One Motorola Plaza
Holtsville NY 11742
US

D0-D4-71
(hex) MVTECH co., Ltd
D0D471 (base 16) MVTECH co., Ltd
#1004, Hanshin IT Tower, 235, Guro 3-dong, Guro-Gu
SEOUL 152-768
KR

08-68-D0 (hex) Japan System Design
0868D0 (base 16) Japan System Design
Skyhills Deshio 3F
Hiroshima 734-0001
JP

D4-22-3F (hex) Lenovo Mobile Communication Technology Ltd.
D4223F (base 16) Lenovo Mobile Communication Technology Ltd.
No.999,Qishan North 2nd Road,Information&Optoelectronics Park,Torch Hi-tech Industry Development Zone,
Xiamen Fujian 361006
US

E8-E8-75 (hex) iS5 Communications Inc.
E8E875 (base 16) iS5 Communications Inc.
#1-1815 Meyerside Drive
Mississauga Ontario L5T 1G3
CA

C8-0E-95 (hex) OmniLync Inc.
C80E95 (base 16) OmniLync Inc.
51a Bennington St.
Newton MA 02458
US

10-4D-77 (hex) Innovative Computer Engineering
104D77 (base 16) Innovative Computer Engineering
10302 Eaton Place STE 100
Fairfax
VA 22030
US

5C-E0-CA (hex) FeiTian United (Beijing) System Technology Co., Ltd.
5CE0CA (base 16) FeiTian United (Beijing) System Technology Co., Ltd.
3 Floor, Tower B, Huizhi Tower
Haidian District Beijing 100085
CN

E0-81-77 (hex) GreenBytes, Inc.
E08177 (base 16) GreenBytes, Inc.
15 Gray Lane, Suite 301

Ashaway RI 02804
US

9C-98-11 (hex) Guangzhou Sunrise Electronics Development Co., Ltd
9C9811 (base 16) Guangzhou Sunrise Electronics Development Co., Ltd
12th Floor,368 GuangZhou Avenue South
Guangzhou Guangdong 510300
CN

B8-60-91 (hex) Onnet Technologies and Innovations LLC
B86091 (base 16) Onnet Technologies and Innovations LLC
1, 82/83 Street, New Industrial Area -II
Ajman Ajman 52141
AE

30-15-18 (hex) Ubiquitous Communication Co. ltd.
301518 (base 16) Ubiquitous Communication Co. ltd.
JEI Platz RM No.410-1
Seoul 153-792
KR

68-97-E8 (hex) Society of Motion Picture
& Television Engineers
6897E8 (base 16) Society of Motion Picture & Television Engineers
3 Barker Ave. FL5
White Plains NY 10601
US

7C-A1-5D (hex) GN ReSound A/S
7CA15D (base 16) GN ReSound A/S
Lautrupbjerg 7
Ballerup DK-CPH 2750
DK

3C-08-1E (hex) Beijing Yupont Electric Power Technology Co.,Ltd
3C081E (base 16) Beijing Yupont Electric Power Technology Co.,Ltd
No.1,Dizang-an Nanxiang
Beijing 100045
CN

FC-58-FA (hex) Shen Zhen Shi Xin Zhong Xin Technology Co.,Ltd.
FC58FA (base 16) Shen Zhen Shi Xin Zhong Xin Technology Co.,Ltd.
Block 3, Dong Huan Industrial Zone, Sha Jing Town
Shen Zhen Guang Dong 518000
CN

60-BB-0C (hex) Beijing HuaqinWorld Technology Co,Ltd
60BB0C (base 16) Beijing HuaqinWorld Technology Co,Ltd

30F,Beijing Silver Tower,No.2 North Road
Chao Yang District Beijing 100027
CN

10-B9-FE (hex) Lika srl
10B9FE (base 16) Lika srl
Via San Lorenzo
25
Carrè Vicenza 36010
IT

A4-2C-08 (hex) Masterwork Automodules
A42C08 (base 16) Masterwork Automodules
11F-3, 3,PARK ST., NAN GANG
TAIPEI 11503
TW

8C-07-8C (hex) FLOW DATA INC
8C078C (base 16) FLOW DATA INC
2309 GRAND PARK DRIVE
GRAND JUNCTION CO 81505
US

F8-DF-A8 (hex) zte corporation
F8DFA8 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

A8-95-B0 (hex) Aker Subsea Ltd
A895B0 (base 16) Aker Subsea Ltd
Kiekhill Industrial Estate
Aberdeen AB51 3XA
GB

78-99-66 (hex) Musilab Electronics (DongGuan)Co.,Ltd.
789966 (base 16) Musilab Electronics (DongGuan)Co.,Ltd.
A2, LinDong 3 Road, LinCun
DongGuan Guangdong 523710
CN

28-CB-EB (hex) One
28CBEB (base 16) One
Mechelsesteenweg 326
Edegem Antwerpen 2650
BE

B8-C4-6F (hex) PRIMMCON INDUSTRIES INC

B8C46F (base 16) PRIMMCON INDUSTRIES
INC
137 MinQuan Rd, 5th Floor,
New Taipei 23141
TW

D8-B0-2E (hex) Guangzhou Zonerich Business Machine Co., LTD.
D8B02E (base 16) Guangzhou Zonerich Business Machine Co., LTD.
North Gate, No.17 Yunjun Road, Luogang District
Guangzhou Guangdong 510530
CN

90-7A-F1 (hex) Wally
907AF1 (base 16) Wally
1415 NE 45th St
Seattle WA 98105
US

2C-B6-93 (hex) Radware
2CB693 (base 16) Radware
22 Raoul Wallenberg St.
Tel-Aviv 69710
IL

AC-41-22 (hex) Eclipse Electronic Systems Inc.
AC4122 (base 16) Eclipse Electronic Systems Inc.
17111 Waterview Parkway
Dallas TX 75252
US

30-05-5C (hex) Brother industries, LTD.
30055C (base 16) Brother industries, LTD.
1-1-1, Kawagishi, Mizuho-ku,
Nagoya Aichi 467-8562
JP

08-0E-A8 (hex) Velex s.r.l.
080EA8 (base 16) Velex s.r.l.
Via Dell'Artigianato 56
Vigodarzere Padova 35010
IT

C4-E0-32 (hex) IEEE
1904.1 Working Group
C4E032 (base 16) IEEE 1904.1 Working Group
1351 Redwood Way,
Petaluma CA 94954
US

84-17-15 (hex) GP Electronics (HK) Ltd.
841715 (base 16) GP Electronics (HK) Ltd.
Gold Peak Industrial Building, 6F
Kwai Chung NT
HK

58-EB-14 (hex) Proteus Digital Health
58EB14 (base 16) Proteus Digital Health
2600 Bridge Parkway, Ste 101
Redwood City California 94065
US

C4-58-C2 (hex) Shenzhen TATFOOK Technology Co., Ltd.
C458C2 (base 16) Shenzhen TATFOOK Technology Co., Ltd.
3rd Industrial Area of Shajing Industrial Company, Haoxiang Road
Shenzhen Guangdong 518104
CN

D0-CD-E1 (hex) Scientech Electronics
D0CDE1 (base 16) Scientech Electronics
4F, No.501-17, Zhong Zheng Rd,
New Taipei City 23148
TW

8C-76-C1 (hex) Goden Tech Limited
8C76C1 (base 16) Goden Tech Limited
ROOM 510-511C2 NAN FUNG TOWER.,
999077
HK

08-F1-B7 (hex) Towerstream Corpration
08F1B7
(base 16) Towerstream Corpration
55 Hammerlund Way
Middletown RI 02842
US

C0-44-E3 (hex) Shenzhen Sinkna Electronics Co., LTD
C044E3 (base 16) Shenzhen Sinkna Electronics Co., LTD
9 Building, XinXin Tian Industry Area,
Shenzhen Guangdong 5180000
CN

18-55-0F (hex) Cisco SPVTG
18550F (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044

US

18-7A-93 (hex) AMICCOM Electronics Corporation
187A93 (base 16) AMICCOM Electronics Corporation
Room A3, 1F., No.1, Lixing 1st Rd
Hsinchu 30078
TW

DC-A9-89 (hex) MACANDC
DCA989 (base 16) MACANDC
2-nd Filevskaya str.7/6
Moscow 121096
RU

A0-03-63 (hex) Robert Bosch Healthcare GmbH
A00363 (base 16) Robert Bosch Healthcare GmbH
Stuttgarter Stra
Waiblingen Baden-Württemberg 71332
DE

C4-5D-D8 (hex) HDMI Forum
C45DD8 (base 16) HDMI Forum
1140 East Arques Avenue, Suite 900
Sunnyvale CA
94085
US

C4-EB-E3 (hex) RRCN SAS
C4EBE3 (base 16) RRCN SAS
23 chemin du vieux chene
Meylan Isere 38246
FR

94-75-6E (hex) QinetiQ North America
94756E (base 16) QinetiQ North America
137 Delta Drive
Pittsburgh PA 15238
US

4C-1A-95 (hex) Novakon Co., Ltd.
4C1A95 (base 16) Novakon Co., Ltd.
6F., No. 120, Lane 235, Pao Chiao Road
New Taipei City 23145
TW

64-99-A0 (hex) AG Elektronik AB
6499A0 (base 16) AG Elektronik AB
Smidesv 12

Staffanstorp 24534
SE

84-8E-96 (hex) Embertec Pty Ltd
848E96 (base 16) Embertec Pty Ltd
182 Fullarton Road
Dulwich, Adelaide South Australia 5065
AU

7C-43-8F (hex) E-Band Communications Corp.
7C438F (base 16) E-Band Communications Corp.
10095 Scripps Ranch Ct. Ste A
San Diego CA 92131
US

44-9B-78 (hex) The Now Factory
449B78 (base 16) The Now Factory
Arkle Road
Dublin 18
IE

F0-F6-69 (hex) Motion
Analysis Corporation
F0F669 (base 16) Motion Analysis Corporation
3617 Westwind Blvd.
Santa Rosa CA 95403
US

F8-F0-82 (hex) NAGTECH LLC
F8F082 (base 16) NAGTECH LLC
12A, Krasnolesya Str., off 507
Ekaterinburg Sverdlovskaya oblast 620110
RU

5C-89-D4 (hex) Beijing Banner Electric Co.,Ltd
5C89D4 (base 16) Beijing Banner Electric Co.,Ltd
Mail Box 1033,Long cheng Garden
Chang Ping District beijing 102208
CN

18-2A-7B (hex) Nintendo Co., Ltd.
182A7B (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

68-FB-95 (hex) Generalplus Technology Inc.
68FB95 (base 16) Generalplus Technology Inc.

3F, No.8, Dusing Rd., Hsinchu Science Park
Hsinchu City 30077
TW

D4-0F-B2 (hex) Applied Micro Electronics AME bv
D40FB2 (base 16) Applied Micro Electronics AME bv
Esp 100
Eindhoven NB 5633 AA
NL

D0-B4-98 (hex) Robert Bosch LLC Automotive
Electronics
D0B498 (base 16) Robert Bosch LLC Automotive Electronics
15000 N Haggerty
Plymouth Michigan 48170
US

E0-55-97 (hex) Emergent Vision Technologies Inc.
E05597 (base 16) Emergent Vision Technologies Inc.
SUITE# 239 - 552A CLARKE ROAD
COQUITLAM British Columbia V3J 0A3
CA

88-87-DD (hex) DarbeeVision Inc.
8887DD (base 16) DarbeeVision Inc.
401 N. Cotswolds Lane #C
Orange California 92869
US

30-C8-2A (hex) WI-BIZ srl
30C82A (base 16) WI-BIZ srl
Via Carlo Ferrero 10
Cascine Vica Rivoli Torino 10098
IT

88-A3-CC (hex) Amatis Controls
88A3CC (base 16) Amatis Controls
210 Aspen Airport Business Center, Suite A
Aspen CO 81611
US

C0-A0-C7 (hex) FAIRFIELD INDUSTRIES
C0A0C7 (base 16) FAIRFIELD INDUSTRIES
1111 GILLINGHAM LANE
SUGAR LAND TEXAS 77478
US

A0-E2-5A (hex) Amicus SK, s.r.o.

A0E25A (base 16) Amicus SK, s.r.o.
Koreszkova 9
Skalica
Trnavsky kraj 90901
SK

84-9D-C5 (hex) Centera Photonics Inc.
849DC5 (base 16) Centera Photonics Inc.
3F, No 6-3 Dusing Rd.
Hsinchu Taiwan 30078
TW

58-09-43 (hex) Private
580943 (base 16) Private

24-2F-FA (hex) Toshiba Global Commerce Solutions
242FFA (base 16) Toshiba Global Commerce Solutions
B307/D121F
RTP NC 27709
US

E4-96-AE (hex) ALTOGRAPHICS Inc.
E496AE (base 16) ALTOGRAPHICS Inc.
Daegu Venture Center 13F
Daegu 701-020
KR

4C-22-58 (hex) cozybit, Inc.
4C2258 (base 16) cozybit, Inc.
605 Market Street
San Francisco CA 94105
US

EC-FC-55 (hex) A. Eberle GmbH & Co. KG
ECFC55 (base 16) A. Eberle GmbH & Co. KG
Frankenstrasse 160
Nuernberg Bavaria 90461
DE

78-99-5C (hex) Nationz Technologies Inc
78995C (base 16) Nationz Technologies Inc
12F,Tower Building #3,China Academy of Science and Technology Development,Gaoxin South Ave.1
Shen Zhen
GuangDong 518057
CN

54-11-5F (hex) Atamo Pty Ltd
54115F (base 16) Atamo Pty Ltd

21 River Road
Bayswater WA 6156
AU

8C-AE-4C (hex) Plugable Technologies
8CAE4C (base 16) Plugable Technologies
40 Lake Bellevue Dr.
Bellevue WA 98005
US

68-51-B7 (hex) PowerCloud Systems, Inc.
6851B7 (base 16) PowerCloud Systems, Inc.
3333 Coyote Hill Rd
Palo Alto CA 94304
US

1C-95-9F (hex) Veethree Electronics And Marine LLC
1C959F (base 16) Veethree Electronics And Marine LLC
2050 47th Terrace East
Bradenton Florida 34203
US

70-38-11 (hex) Siemens Mobility Limited
703811 (base 16) Siemens Mobility Limited
17 Langley Park Way
Chippenham Wiltshire SN15 1GG
GB

CC-4B-FB (hex) Hellberg Safety AB
CC4BFB (base 16) Hellberg Safety AB
Stakebergsvagen 2
Stenkullen 44361
SE

F4-94-66 (hex) CountMax, ltd
F49466 (base 16) CountMax, ltd
11 Titova str.
poselok
Lesnoy Moscowskaya oblast 141231
RU

F4-52-14 (hex) Mellanox Technologies, Inc.
F45214 (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway, Suite 100
Sunnyvale CA 94085
US

10-F4-9A (hex) T3 Innovation

10F49A (base 16) T3 Innovation
808 Calle Plano
Camarillo CA 93012
US

3C-57-BD (hex) Kessler Crane Inc.
3C57BD (base 16) Kessler Crane Inc.
602 East Jefferson St
Plymouth Indidana 46563
US

04-E9-E5 (hex) PJRC.COM, LLC
04E9E5 (base 16) PJRC.COM, LLC
14723 SW Brooke Ct
Sherwood Oregon 97140
US

60-BD-91 (hex) Move Innovation
60BD91 (base 16) Move Innovation
Generatorvej 8B,st
Herlev DK 2730
DK

34-C8-03 (hex) Nokia Corporation
34C803 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

F0-5F-5A (hex) Getriebebau NORD GmbH and Co. KG
F05F5A (base 16) Getriebebau NORD GmbH and Co. KG
Rudolf-Diesel-Strasse 1
Bargteheide
Schleswig-Holstein 22941
DE

6C-AD-EF (hex) KZ Broadband Technologies, Ltd.
6CADEF (base 16) KZ Broadband Technologies, Ltd.
1601 Tower C
Shenzhen Guangdong 518057
CN

74-5F-AE (hex) TSL PPL
745FAE (base 16) TSL PPL
Units 1-2, First Avenue
Marlow Buckinghamshire SL7 1YA
GB

74-2D-0A (hex) Norfolk Elektronik AG
742D0A (base 16) Norfolk Elektronik AG
Luzernstrasse 12
Eschenbach LU 6274
CH

48-5A-3F (hex) WISOL
485A3F (base 16) WISOL
373-7, Gajang-dong
Osan-si Gyeonggi-do 447-210
KR

70-F1-E5 (hex) Xetawave LLC
70F1E5 (base 16) Xetawave LLC
1668 Valtec Lane
Boulder CO 80301
US

C0-AA-68 (hex) OSASI Technos Inc.
C0AA68 (base 16) OSASI Technos Inc.
65-3, Hongu-cho,
Kochi-shi, Kochi-ken 780-0945
JP

88-D7-BC (hex) DEP Company
88D7BC (base 16) DEP Company
Poryadkovy pereulok,21
Moscow 127055
RU

0C-C6-55 (hex) Wuxi YSTen
Technology Co.,Ltd.
0CC655 (base 16) Wuxi YSTen Technology Co.,Ltd.
Room 1801,18F, North Star Times Tower,
Chaoyang District Beijing 100101
CN

28-9E-DF (hex) Danfoss Turbocor Compressors, Inc
289EDF (base 16) Danfoss Turbocor Compressors, Inc
1769 E. Paul Dirac Ave.
Tallahassee Florida 32310
US

80-3F-D6 (hex) bytes at work AG
803FD6 (base 16) bytes at work AG
Konradstrasse 15
Winterthur ZH 8400
CH

CC-26-2D (hex) Verifi, LLC
CC262D (base 16) Verifi, LLC
9466 Meridian Way
West Chester OH 45069
US

3C-8A-E5 (hex) Tensun Information Technology(Hangzhou) Co.,LTD
3C8AE5 (base 16) Tensun Information Technology(Hangzhou) Co.,LTD
Room 207,Building 5,Wensan Road
Hangzhou Zhejiang 310013
CN

7C-01-87 (hex) Curtis Instruments, Inc.
7C0187 (base 16) Curtis Instruments, Inc.
200 Kisco Avenue
Mt Kisco NY 10549
US

54-F6-66 (hex) Berthold Technologies GmbH and Co.KG
54F666
(base 16) Berthold Technologies GmbH and Co.KG
Calmbacher Strasse 22
Bad Wildbad 75323
DE

1C-11-E1 (hex) Wartsila Finland Oy
1C11E1 (base 16) Wartsila Finland Oy
Jarvikatu 2-4
Vaasa Western Finland 65101
FI

50-46-5D (hex) ASUSTek COMPUTER INC.
50465D (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

74-BF-A1 (hex) HYUNTECK
74BFA1 (base 16) HYUNTECK
#603 107-Dong, Jugong Apt., Changhyeon-ri, Hwado-eup
Namyangju-si Gyeonggi-do 472-779
KR

2C-5A-A3 (hex) PROMATE ELECTRONIC CO.LTD
2C5AA3 (base 16) PROMATE ELECTRONIC CO.LTD
4F 32,SEC.1 HUAN SHAN RD.,NEI HU,
TAIPEI 114

TW

34-E0-CF (hex) zte corporation
34E0CF (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

F8-22-85 (hex) Cypress Technology CO., LTD.
F82285 (base 16) Cypress Technology CO.,
LTD.
6F-5, NO., 130 Jiankang Rd.,
Zhonghe Dist. New Taipei City 23585
TW

24-EE-3A (hex) Chengdu Yingji Electronic Hi-tech Co Ltd
24EE3A (base 16) Chengdu Yingji Electronic Hi-tech Co Ltd
No.3 South Herui Road Hi-tech Zone
Chengdu City Sichuan 611731
CN

0C-C6-6A (hex) Nokia Corporation
0CC66A (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

74-27-3C (hex) ChangYang Technology (Nanjing) Co., LTD
74273C (base 16) ChangYang Technology (Nanjing) Co., LTD
NO.9 KaiCheng Road,QiLinTown
NanJing JiangSu 211100
CN

08-7C-BE (hex) Quintic Corp.
087CBE (base 16) Quintic Corp.
1600 Wyatt Dr., #8
Santa Clara CA 95054
US

C4-AD-21 (hex) MEDIAEDGE Corporation
C4AD21 (base 16) MEDIAEDGE Corporation
23F Kobe Commerce, Industry and Trade Center Bldg.
Kobe Hyogo 651-0083
JP

08-B7-38 (hex) Lite-On Technogy Corp.
08B738 (base 16) Lite-On Technogy Corp.
18F,

392, RueyKuang Road, Neihu,
Taipei 11492
TW

F8-AA-8A (hex) Axview Technology (Shenzhen) Co.,Ltd
F8AA8A (base 16) Axview Technology (Shenzhen) Co.,Ltd
NO 1, Mei Zhong Road, Futian District
SHENZHEN GUANGDONG 518049
CN

B4-00-9C (hex) CableWorld Ltd.
B4009C (base 16) CableWorld Ltd.
Kondorfa u. 6/B
Budapest 1112
HU

08-68-EA (hex) EITO ELECTRONICS CO., LTD.
0868EA (base 16) EITO ELECTRONICS CO., LTD.
1-34-1 Shinmeidai
Hamura-shi Tokyo 205-0023
JP

E8-04-F3 (hex) Throughtek Co., Ltd.
E804F3 (base 16) Throughtek Co., Ltd.
4F, no. 221, Chong-yang Rd.
Taipei 11573
TW

84-2B-BC (hex) Modelleisenbahn GmbH
842BBC (base 16) Modelleisenbahn GmbH
Plainbachstrasse 4
Bergheim 5101
AT

80-1D-AA (hex) Avaya Inc
801DAA (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

7C-09-2B (hex) Bekey A/S
7C092B (base 16) Bekey A/S
Bredebjergvej
6
Taastrup 2630
DK

80-AA-A4 (hex) USAG

80AAA4 (base 16) USAG
301 Goolsby Blvd
Deerfield Beach FL 33442
US

A4-0B-ED (hex) Carry Technology Co.,Ltd
A40BED (base 16) Carry Technology Co.,Ltd
4F, No.119, JianKang Road
Jhonghe Dist. New Taipei City 23585
TW

70-23-93 (hex) fos4X GmbH
702393 (base 16) fos4X GmbH
Thalkirchner Str. 210, Geb. 6
81371 München
DE

F8-5F-2A (hex) Nokia Corporation
F85F2A (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

C4-38-D3 (hex) TAGATEC CO.,LTD
C438D3 (base 16) TAGATEC CO.,LTD
#604, Dongmoon Goodmorning Tower 2,
Goyang-si Kyunggi-do 410-704
KR

E8-5B-F0 (hex) Imaging Diagnostics
E85BF0 (base 16) Imaging Diagnostics
POB 698
Nes Ziona N/A 74106
IL

04-4A-50 (hex) Ramaxel Technology (Shenzhen) limited company
044A50 (base 16) Ramaxel Technology (Shenzhen) limited company
2-5/F,North Block
Southeast Industrial and Commercial Building Houhai Road,Shekou Shenzhen
shenzhen guangdong 518067
CN

38-A5-B6 (hex) SHENZHEN MEGMEET ELECTRICAL CO.,LTD
38A5B6 (base 16) SHENZHEN MEGMEET ELECTRICAL CO.,LTD
5th Floor,Building B, Ziguang Information Harbor
Shenzhen Guangdong 518057
CN

0C-D9-C1 (hex) Visteon Corporation
0CD9C1 (base 16) Visteon Corporation
One Village Center Drive
Van Buren Twp MI 48111
US

E0-AA-B0 (hex) SUNTAILI ENTERPRISE CO. LTD,
E0AAB0 (base 16) SUNTAILI ENTERPRISE CO. LTD,
No. 6 ALY 3,LN 64 XINGFU RD, XINZHUNAG DISTRICT
NEW TAIPEI CITY 242
TW

50-2E-CE (hex) Asahi Electronics Co.,Ltd
502ECE (base 16) Asahi Electronics Co.,Ltd
29-25 Kariyado
Kanagawa-ken 211-0022
JP

AC-14-D2 (hex) wi-daq, inc.
AC14D2 (base 16) wi-daq, inc.
850 NW Federal Hwy
Stuart Florida 34994
US

68-AB-8A (hex) RF IDeas
68AB8A (base 16) RF IDeas
4020 Winnetka Ave
Rolling
Meadows IL 60008
US

9C-4C-AE (hex) Mesa Labs
9C4CAE (base 16) Mesa Labs
10 Evergreen Dr
Bozeman MT 59715
US

08-5B-0E (hex) Fortinet, Inc.
085B0E (base 16) Fortinet, Inc.
899 Kifer Road
Sunnyvale California 94086
US

EC-42-F0 (hex) ADL Embedded Solutions, Inc.
EC42F0 (base 16) ADL Embedded Solutions, Inc.
4411 Morena Blvd.
San Diego CA 92117
US

30-AE-F6 (hex) Radio Mobile Access
30AEF6 (base 16) Radio Mobile Access
1 Elm Sq
Andover MA 01870
US

6C-E4-CE (hex) Villiger Security Solutions AG
6CE4CE (base 16) Villiger Security Solutions AG
Giessenmatt 2
Sins 5643
CH

E8-CB-A1 (hex) Nokia Corporation
E8CBA1 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

78-44-05 (hex) FUJITU(HONG KONG) ELECTRONIC Co.,LTD.
784405 (base 16) FUJITU(HONG KONG) ELECTRONIC Co.,LTD.
8/F,QingHai Building,Xiang Mei Road,Futian District
SHENZHEN
GUANGDONG 518000
CN

64-9F-F7 (hex) Kone OYj
649FF7 (base 16) Kone OYj
Myllykatu 3
Hyvinkaa Hyvinkaa 05830
FI

14-6A-0B (hex) Cypress Electronics Limited
146A0B (base 16) Cypress Electronics Limited
11/F., Block G, East Sun Industrial Centre, 16 Shing Yip Street,
Hong Kong nil nil
HK

F4-90-EA (hex) Deciso B.V.
F490EA (base 16) Deciso B.V.
Edison 43
Midddelharnis Zuid Holland 3241LS
NL

5C-EE-79 (hex) Global Digitech Co LTD
5CEE79 (base 16) Global Digitech Co LTD
1F., No.25, Aly.56, Ln. 245, Sec. 4, Bade Rd.,
Taipei Taiwan 105

TW

80-CE-B1 (hex) Theissen Training Systems GmbH
80CEB1 (base 16) Theissen Training Systems GmbH
Schuchardstrasse 3
Duesseldorf NRW 40595
DE

FC-2A-54 (hex) Connected Data, Inc.
FC2A54 (base 16) Connected Data, Inc.
2905 Stender Way
Santa Clara CA 95054
US

78-25-44 (hex) Omnima Limited
782544 (base 16) Omnima
Limited
Oxford Science Park
Oxford Oxfordshire OX4 4GP
GB

A4-18-75 (hex) Cisco Systems, Inc
A41875 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

C8-AE-9C (hex) Shanghai TYD Elecronic Technology Co. Ltd
C8AE9C (base 16) Shanghai TYD Elecronic Technology Co. Ltd
21F, BLKB, NO.391 GuiPing Rd,
Shanghai 200233
CN

08-0C-C9 (hex) Mission Technology Group, dba Magma
080CC9 (base 16) Mission Technology Group, dba Magma
9918 Via Pasar
San Diego CA 92126
US

C0-5E-79 (hex) SHENZHEN HUAXUN ARK TECHNOLOGIES CO.,LTD
C05E79 (base 16) SHENZHEN HUAXUN ARK TECHNOLOGIES CO.,LTD
3F,C4 Building,Yintian Industrial Zone,Xixiang,Baoan District
shenzhen guangdong 518102
CN

58-BF-EA (hex) Cisco Systems, Inc
58BFEA (base 16) Cisco Systems, Inc
80 West Tasman Drive

San Jose CA 94568
US

FC-1D-59 (hex) I Smart Cities HK Ltd
FC1D59 (base 16) I Smart
Cities HK Ltd
Unit G,10/F,Phase 2,Yip Fat IND
73-75
HK

78-C4-AB (hex) Shenzhen Runsil Technology Co.,Ltd
78C4AB (base 16) Shenzhen Runsil Technology Co.,Ltd
4/F., Yuhua Building A, Yangmen Industrial Park,
Shenzhen GuangDong 518055
CN

C4-01-B1 (hex) SeekTech INC
C401B1 (base 16) SeekTech INC
3855 Ruffin Road
San Diego California 92123
US

C0-C9-46 (hex) MITSUYA LABORATORIES INC.
C0C946 (base 16) MITSUYA LABORATORIES INC.
6-31-18
KAWASAKI-CITY KANAGAWA 215-0021
JP

F4-60-0D (hex) Panoptic Technology, Inc
F4600D (base 16) Panoptic Technology, Inc
587 W Eau Gallie Blvd
Melbourne FL 32935
US

A8-2B-D6 (hex) Shina System Co., Ltd
A82BD6 (base 16) Shina System Co., Ltd
3305, O'BizTower, 126, Beolmal-ro,
Anyang-Si Gyeounggi-Do 431-763
KR

AC-CF-23 (hex) Hi-flying electronics technology Co.,Ltd
ACCF23 (base 16) Hi-flying electronics technology Co.,Ltd
Room
B101,456 BiBo Raod,PuDong
Shanghai 201200
CN

CC-91-2B (hex) TE Connectivity Touch Solutions

CC912B (base 16) TE Connectivity Touch Solutions
2245 Brighton Henrietta Town Line Road
Rochester New York 14623
US

60-90-84 (hex) DSSD Inc
609084 (base 16) DSSD Inc
4025 Bohannon Dr
Menlo Park CA 94025
US

80-2A-FA (hex) Germaneers GmbH
802AFA (base 16) Germaneers GmbH
Dr.-Kurt-Schumacher-Ring 3
Wettstetten Bayern 85139
DE

18-42-1D (hex) Private
18421D (base 16) Private

28-C9-14 (hex) Taimag Corporation
28C914 (base 16) Taimag Corporation
NO. 1, West 2nd St. N.E.P.Z
Kaohsiung 811
TW

20-C1-AF (hex) i Wit Digital Co., Limited
20C1AF (base 16) i Wit Digital Co., Limited
303,Buiding1,Nanhai Ecool Innovation Park,
Shenzhen GuangDong 518000
US

74-93-A4 (hex) Zebra Technologies Corp.
7493A4 (base 16) Zebra Technologies Corp.
20314 Seneca Meadows Parkway
Germantown
Maryland 21771
US

E4-71-85 (hex) Securifi Ltd
E47185 (base 16) Securifi Ltd
16F-3, #482 Zhongxiao E Rd, Sec 5
Taipei 11083
TW

D0-57-85 (hex) Pantech Co., Ltd.
D05785 (base 16) Pantech Co., Ltd.
110-1 Ongjeong-Ri, Tongjin-Eup

Gimpo-Si Gyounggi-Do 415-865
KR

40-8B-07 (hex) Actiontec Electronics, Inc
408B07 (base 16) Actiontec Electronics, Inc
3301 Olcott St.
Santa Clara CA 95054
US

04-5C-06 (hex) Zmodo Technology Corporation
045C06 (base 16) Zmodo Technology Corporation
1401 Interstate Dr
Champaign IL 61822
US

74-7B-7A (hex) ETH Inc.
747B7A (base 16) ETH Inc.
#202 Mazium BLG, 545-6, Dangjung-dong,
Gunpo-si Gyeonggi-do 435-833
KR

48-EA-63 (hex) Zhejiang Uniview Technologies Co., Ltd.
48EA63 (base 16) Zhejiang Uniview Technologies Co., Ltd.
Eastcom Building C,Eastcom Avenue
Hangzhou Zhejiang 310053
CN

E8-8D-F5 (hex) ZNYX Networks,
Inc.
E88DF5 (base 16) ZNYX Networks, Inc.
48421 Milmont Drive
Fremont CA 94538
US

6C-AE-8B (hex) IBM Corporation
6CAE8B (base 16) IBM Corporation
4400 North First Street
San Jose CA 95134
US

BC-14-01 (hex) Hitron Technologies. Inc
BC1401 (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

94-CA-0F (hex) Honeywell Analytics
94CA0F (base 16) Honeywell Analytics

2840 2nd Ave SE
Calgary Alberta T2A7X9
CA

40-16-FA (hex) EKM Metering
4016FA (base 16) EKM Metering
363 Berkeley Way
Santa Cruz CA 95062
US

0C-13-0B (hex) Uniqoteq Ltd.
0C130B (base 16) Uniqoteq Ltd.
Lemminkaisenkatu 14-18 A
Turku 20520
FI

2C-54-2D (hex) Cisco Systems, Inc
2C542D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

AC-3F-A4 (hex) TAIYO YUDEN CO.,LTD
AC3FA4
(base 16) TAIYO YUDEN CO.,LTD
8-1, Sakae-cho
Takasaki-shi Gunma 370-8522
JP

64-0E-94 (hex) Pluribus Networks, Inc.
640E94 (base 16) Pluribus Networks, Inc.
1808 Embarcadero Rd Suite B
Palo Alto CA 94303
US

0C-B4-EF (hex) Digience Co.,Ltd.
0CB4EF (base 16) Digience Co.,Ltd.
204 Building for Growth, Gumi Electronics&Information Technology Research Institute, 17 Cheomdangieop-1ro,
Gumi Gyeongbuk
KR

40-AC-8D (hex) Data Management, Inc.
40AC8D (base 16) Data Management, Inc.
3322 Loop 306
San Angelo Texas 76904
US

4C-AA-16 (hex) AzureWave Technologies (Shanghai) Inc.

4CAA16 (base 16) AzureWave Technologies (Shanghai) Inc.
No.8 Lane 66, Chenbao Road, Malu Town Jiading District
Shanghai 201801
CN

AC-40-EA (hex) C&T Solution Inc.
AC40EA (base 16) C&T Solution Inc.
12F-1, No.700, Zhongzheng Rd., Zhonghe Dist.
New Taipei City Taiwan 235
TW

00-2A-AF
(hex) LARsys-Automation GmbH
002AAF (base 16) LARsys-Automation GmbH
Sinzinger Str. 3
Hochburg-Ach 5122
AT

1C-E1-65 (hex) Marshal Corporation
1CE165 (base 16) Marshal Corporation
Field Three Sotokanda Bldg.
5-3-6, Sotokanda, Chiyodaku Tokyo 101-0021
JP

28-41-21 (hex) OptiSense Network, LLC
284121 (base 16) OptiSense Network, LLC
1308 10th Street
Bridgeport TX 76426
US

38-45-8C (hex) MyCloud Technology corporation
38458C (base 16) MyCloud Technology corporation
Room 705£¬Building F, Jiahua Building£¬
Beijing 100085
CN

10-E4-AF (hex) APR, LLC
10E4AF (base 16) APR, LLC
4800 US HWY 280 West
Opelika AL 36801
US

2C-2D-48 (hex) bct electronic GesmbH
2C2D48 (base 16) bct electronic GesmbH
Saalachstraße 86a
Salzburg 5020
AT

90-F7-2F (hex) Phillips Machine & Welding Co., Inc.
90F72F (base 16) Phillips Machine & Welding Co., Inc.
16125 E. Gale Ave.
Industry
CA 91745
US

F4-EA-67 (hex) Cisco Systems, Inc
F4EA67 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

28-BA-18 (hex) NextNav, LLC
28BA18 (base 16) NextNav, LLC
484 Oakmead Parkway
Sunnyvale CA 94085
US

AC-3D-75 (hex) HANGZHOU ZHIWAY TECHNOLOGIES CO.,LTD.
AC3D75 (base 16) HANGZHOU ZHIWAY TECHNOLOGIES CO.,LTD.
FLOOR12B,BUILDING E,PARADISE SOFTWARE PARK,NO.3 XIDOUMEN ROAD,
HANGZHOU ZHEJIANG 310012
CN

A0-90-DE (hex) VEEDIMS,LLC
A090DE (base 16) VEEDIMS,LLC
49 N. Federal Highway #397
Pompano Beach Florida 33062
US

00-2A-6A (hex) Cisco Systems, Inc
002A6A (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

60-8C-2B (hex) Hanson Technology
608C2B (base 16) Hanson Technology
Room 1503, Zhao Jia Bang Road
Shanghai 200030
CN

64-2D-B7 (hex) SEUNGIL ELECTRONICS
642DB7 (base 16) SEUNGIL ELECTRONICS
#16-8,
Dodang-dong
Buchon Gyuonggi-do 420-801

KR

F4-36-E1 (hex) Abilis Systems SARL
F436E1 (base 16) Abilis Systems SARL
3, chemin Pré Fleuri
Plan-Les-Ouates Geneva 1228
CH

80-0A-06 (hex) COMTEC co.,ltd
800A06 (base 16) COMTEC co.,ltd
60 shimoishida,azabu-cho,
Miyoshi-shi Aichi-ken 470-0206
JP

E8-0C-75 (hex) Syncbak, Inc.
E80C75 (base 16) Syncbak, Inc.
5 Research Center
Marion IA 52302
US

04-F0-21 (hex) Compex Systems Pte Ltd
04F021 (base 16) Compex Systems Pte Ltd
135 Joo Seng Road,
368363
SG

34-2F-6E (hex) Anywire corporation
342F6E (base 16) Anywire corporation
1 Zusyo, Baba
Nagaokakyo Kyoto pref. 617-8550
JP

94-00-70 (hex) Nokia Corporation
940070 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

BC-2C-55 (hex) Bear Flag Design, Inc.
BC2C55 (base 16) Bear Flag Design, Inc.
1 Thayer Road
Santa
Cruz CA 95060
US

0C-75-23 (hex) BEIJING GEHUA CATV NETWORK CO.,LTD
0C7523 (base 16) BEIJING GEHUA CATV NETWORK CO.,LTD
No.35,N.Huayuan RD.,Haidian District

BEIJING 100083
CN

34-BA-9A (hex) Asiatelco Technologies Co.
34BA9A (base 16) Asiatelco Technologies Co.
301,#8 Building,#289 Bisheng Road
Shanghai 201204
CN

F0-00-7F (hex) Janz - Contadores de Energia, SA
F0007F (base 16) Janz - Contadores de Energia, SA
Avenida Infante D. Henrique
Lisbon 1800-223
PT

30-B3-A2 (hex) Shenzhen Heguang Measurement & Control Technology Co.,Ltd
30B3A2 (base 16) Shenzhen Heguang Measurement & Control Technology Co.,Ltd
3/F, Tower A, Xiangnian Plaza, 6060 Qiaoxiang Road,
Shenzhen Guangdong 518053
CN

28-18-FD (hex) Aditya Infotech Ltd.
2818FD (base 16) Aditya Infotech Ltd.
Khemka Square, A-12, Sector-4,
Noida Uttar Pradesh 201301
IN

D8-B9-0E (hex) Triple Domain Vision Co.,Ltd.
D8B90E
(base 16) Triple Domain Vision Co.,Ltd.
No.9, Aly. 1, Ln. 585, Sec.3, Fulin Rd.,
Hsinchu Conuty 307
TW

CC-EE-D9 (hex) VAHLE Automation GmbH
CCEED9 (base 16) VAHLE Automation GmbH
Egerbach 12a
Kufstein Schwoich Tirol 6334
AT

B0-8E-1A (hex) URadio Systems Co., Ltd
B08E1A (base 16) URadio Systems Co., Ltd
Phase II D202-2, 1355 JinJiHu Blvd
Suzhou Jiangsu 215021
CN

D8-E9-52 (hex) KEOPSYS
D8E952 (base 16) KEOPSYS

21 RUE LOUIS DE BROGLIE
LANNION BRITANY 22300
FR

64-52-99 (hex) The Chamberlain Group, Inc
645299 (base 16) The Chamberlain Group, Inc
300 Windsor Drive
Oak Brook IL 60523
US

00-5C-B1 (hex) Gospell DIGITAL TECHNOLOGY CO., LTD
005CB1 (base 16) Gospell DIGITAL TECHNOLOGY CO., LTD
Block F10-F13Â¡Â¢F518 Idea land Â¡Â¢Bao Yuan Road
Shenzhen Guangdong 518102
CN

50-60-28 (hex) Xirrus Inc.
506028 (base 16) Xirrus Inc.
2101 CORPORATE CENTER
DR
Thousand Oaks CALIFORNIA 91320
US

6C-E9-07 (hex) Nokia Corporation
6CE907 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

E4-FA-1D (hex) PAD Peripheral Advanced Design Inc.
E4FA1D (base 16) PAD Peripheral Advanced Design Inc.
1400 Hocquart
Saint-Bruno QC J3V 6E1
CA

BC-A4-E1 (hex) Nabto
BCA4E1 (base 16) Nabto
Aabogade 15
Aarhus Jutland 8200
DK

50-64-41 (hex) Greenlee
506441 (base 16) Greenlee
219 S Main St
Dallas TX 76104
US

9C-1F-DD (hex) Accupix Inc.

9C1FDD (base 16) Accupix Inc.
3F Gaeyang BLDG, 548-1,
Anyang Kyeonggi-Do 430-730
KR

7C-DD-11 (hex) Chongqing MAS SCI&TECH.Co.,Ltd
7CDD11 (base 16) Chongqing MAS SCI&TECH.Co.,Ltd
6th Floor, Zone C2,Hi-tech Venture Park, No.105 Erlang Venture Road
Chongqing City 400039
CN

B8-FD-32 (hex) Zhejiang ROICX Microelectronics
B8FD32 (base 16) Zhejiang ROICX Microelectronics
22
Floor, 1888 Jianghui Road, Binjiang District
Hangzhou Zhejiang 310051
CN

C8-AF-40 (hex) marco Systemanalyse und Entwicklung GmbH
C8AF40 (base 16) marco Systemanalyse und Entwicklung GmbH
Hans-Böckler-Straße 2
Dachau Bavaria 85221
DE

40-98-4C (hex) Casacom Solutions AG
40984C (base 16) Casacom Solutions AG
Badenerstarsse 551
Zuerich 8046
CH

70-EE-50 (hex) Netatmo
70EE50 (base 16) Netatmo
17 route de la reine
Boulogne-Billancourt 92100
FR

98-4A-47 (hex) CHG Hospital Beds
984A47 (base 16) CHG Hospital Beds
1020 Adelaide St S
London ON N6E 1R6
CA

14-49-78 (hex) Digital Control Incorporated
144978 (base 16) Digital Control Incorporated
19625 62nd Ave S
Kent WA 98032
US

2C-10-C1 (hex) Nintendo Co., Ltd.
2C10C1 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

8C-D1-7B (hex) CG Mobile
8CD17B
(base 16) CG Mobile
3F Caohejing Software Building, No.461 Hongcao Rd.,XuHui District
Shanghai 200233
CN

00-08-31 (hex) Cisco Systems, Inc
000831 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

34-D0-9B (hex) MobilMAX Technology Inc.
34D09B (base 16) MobilMAX Technology Inc.
2F-5, No.28, Tai-Yuan St.
Chupei City, Hsinchu Country 302
TW

00-91-FA (hex) Synapse Product Development
0091FA (base 16) Synapse Product Development
1511 6th Ave
Seattle WA 98101
US

A0-5A-A4 (hex) Grand Products Nevada, Inc.
A05AA4 (base 16) Grand Products Nevada, Inc.
751 Pilot Rd.
Las Vegas Nevada 89119
US

90-8F-CF (hex) UNO System Co., Ltd
908FCF (base 16) UNO System Co., Ltd
#402 Kolon Science Valley °., 187-10, Guro-dong, Guro-gu
Seoul 152-848
KR

40-E7-93 (hex) Shenzhen Siviton Technology Co.,Ltd
40E793 (base 16) Shenzhen Siviton Technology
Co.,Ltd
4F,Block6,Coolpad Business Centre,North of Keyuan Road,Hi-technology Zone,Nanshan District
Shenzhen Guangdong 518057

CN

50-26-90 (hex) FUJITSU LIMITED
502690 (base 16) FUJITSU LIMITED
403, Kosugi-cho 1-chome, Nakahara-ku
Kawasaki Kanagawa 211-0063
JP

3C-6A-7D (hex) Niigata Power Systems Co., Ltd.
3C6A7D (base 16) Niigata Power Systems Co., Ltd.
7-26,Tatsumi 3-Chome
Koto-ku TOKYO 135-0053
JP

50-22-67 (hex) PixeLINK
502267 (base 16) PixeLINK
3030 Conroy Road
Ottawa Ontario K1G 6C2
CA

3C-70-59 (hex) MakerBot Industries
3C7059 (base 16) MakerBot Industries
87 3rd Avenue
Brooklyn NY 11217
US

88-23-FE (hex) TTTech Computertechnik AG
8823FE (base 16) TTTech Computertechnik AG
Schoenbrunnerstrasse 7
Vienna 1040
AT

F0-EE-BB (hex) VIPAR GmbH
F0EEBB (base 16) VIPAR GmbH
Lichtenbergstrasse 8
Garching bei Muenchen Bavaria 85748
DE

1C-5C-55
(hex) PRIMA Cinema, Inc
1C5C55 (base 16) PRIMA Cinema, Inc
1903 Wright Place, Suite 320
Carlsbad CA 92008
US

5C-CE-AD (hex) CDYNE Corporation
5CCEAD (base 16) CDYNE Corporation
505 Independence Pkwy Ste 300

Chesapeake VA 23320
US

AC-54-EC (hex) IEEE P1823 Standards Working Group
AC54EC (base 16) IEEE P1823 Standards Working Group
445 Hoes Lane
Piscataway NJ 08854
US

70-97-56 (hex) Happyelectronics Co.,Ltd
709756 (base 16) Happyelectronics Co.,Ltd
#A-805, Bundang Technopark,
Seongnam-Si 463-816
KR

B8-20-E7 (hex) Guangzhou Horizontal Information & Network Integration Co. Ltd
B820E7 (base 16) Guangzhou Horizontal Information & Network Integration Co. Ltd
Floor 10¬Golden Star Building¬Wushan Hanjing Road¬Tianhe District¬Guangzhou City
Guangzhou Guangdong Province 510630
CN

00-CD-90 (hex) MAS Elektronik AG
00CD90 (base 16) MAS Elektronik AG
Pollhornbogen 19
Hamburg
21107
DE

00-08-2F (hex) Cisco Systems, Inc
00082F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

38-60-77 (hex) PEGATRON CORPORATION
386077 (base 16) PEGATRON CORPORATION
5F No. 76, Ligong St., Beitou District
Taipei City Taiwan 112
TW

70-81-05 (hex) Cisco Systems, Inc
708105 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E0-ED-1A (hex) vastriver Technology Co., Ltd
E0ED1A (base 16) vastriver Technology Co., Ltd

A-6A Keshi Building,No.28,Xinxi Road,Haidian,
Beijing 100085
CN

68-5E-6B (hex) PowerRay Co., Ltd.
685E6B (base 16) PowerRay Co., Ltd.
7F-1, No 190, Sec 2, Chung Hsing Road, Sindian District
New Taipei City 231
TW

E4-55-EA (hex) Dedicated Computing
E455EA (base 16) Dedicated Computing
N26 W23880 Commerce Circle
Waukesha Wisconsin 53188
US

B8-9A-ED (hex) OceanServer Technology,
Inc
B89AED (base 16) OceanServer Technology, Inc
151 Martine St
Fall River MA 02723
US

20-C8-B3 (hex) SHENZHEN BUL-TECH CO.,LTD.
20C8B3 (base 16) SHENZHEN BUL-TECH CO.,LTD.
Area C,4/F,NO.59,Longjing 2nd Road,
SHENZHEN GuangDong 518101
CN

D4-F6-3F (hex) IEA S.R.L.
D4F63F (base 16) IEA S.R.L.
Eva Peron 4468
Rosario Santa Fe S2002LBQ
AR

58-B0-D4 (hex) ZuniData Systems Inc.
58B0D4 (base 16) ZuniData Systems Inc.
4F-7, No.65, Gaotia 7th Rd, Zhubei City
Hsinchu 302
TW

64-55-7F (hex) NSFOCUS Information Technology Co., Ltd.
64557F (base 16) NSFOCUS Information Technology Co., Ltd.
3/F,Ether Building, No.4 Beiwa Rd.,Haidian District
Beijing 100089
CN

98-8B-AD (hex) Corintech Ltd.

988BAD (base 16) Corintech Ltd.
Ashford Mill
Fordingbridge Hampshire SP6 1DZ
GB

D4-4B-5E (hex) TAIYO YUDEN CO., LTD.
D44B5E (base 16) TAIYO YUDEN CO., LTD.
8-1, Sakae-cho
Takasaki-shi
Gunma 370-8522
JP

64-0E-36 (hex) TAZTAG
640E36 (base 16) TAZTAG
Cicea 1
Bruz 35170
FR

C8-7D-77 (hex) Shenzhen Kingtech Communication Equipment Co.,Ltd
C87D77 (base 16) Shenzhen Kingtech Communication Equipment Co.,Ltd
Floor3.Building A,NO.3,Road 1 of shangxue Dengxinkeng Industry Park,Bantian Street,
Shenzhen City Guangdong 518112
CN

B0-5C-E5 (hex) Nokia Corporation
B05CE5 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

34-82-DE (hex) Kiio Inc
3482DE (base 16) Kiio Inc
404 Holtzman Rd
Madison WI 53713
US

94-1D-1C (hex) TLab West Systems AB
941D1C (base 16) TLab West Systems AB
Ebbe Lieberathsgatan 23B
Gothenburg 41265
SE

94-AE-61 (hex) Alcatel Lucent
94AE61 (base 16) Alcatel Lucent
Via Energy Park, 14
Vimercate MB 20871
IT

5C-18-B5 (hex) Talon Communications
5C18B5 (base 16) Talon Communications
10636
Scripps Summit Ct.
San Diego CA 92131
US

64-E1-61 (hex) DEP Corp.
64E161 (base 16) DEP Corp.
Nishi-shinjuku 6-12-7
Shinjuku Tokyo 160-0023
JP

00-64-A6 (hex) Maquet CardioVascular
0064A6 (base 16) Maquet CardioVascular
1300 MacArthur Blvd
Mahwah NJ 07430
US

7C-6B-52 (hex) Tigaro Wireless
7C6B52 (base 16) Tigaro Wireless
Shen A'ari 7
Even Yehuda 40500
IL

4C-5F-D2 (hex) Alcatel-Lucent
4C5FD2 (base 16) Alcatel-Lucent
777 East Middlefield Road
Mountain View CA 94043
US

9C-C7-D1 (hex) SHARP Corporation
9CC7D1 (base 16) SHARP Corporation
22-22,Nagaike-cho
Osaka city Osaka prefecture 545-8522
JP

14-90-90 (hex) KongTop industrial(shen zhen)CO.,LTD
149090 (base 16) KongTop industrial(shen zhen)CO.,LTD
xinwuyuan,gushu,Xixiang,Baoan,
Shenzhen Guangdong 518000
CN

28-C7-18 (hex) Altierre
28C718 (base 16) Altierre
1980 Concourse Drive
San

Jose United States 95131
US

7C-4C-58 (hex) Scale Computing, Inc.
7C4C58 (base 16) Scale Computing, Inc.
2121 El Camino Real
San Mateo UNITED STATES 94403
US

10-13-EE (hex) Justec International Technology INC.
1013EE (base 16) Justec International Technology INC.
7F-2 No 113 Zihyou Road
Hsinchu City 30041
TW

80-7A-7F (hex) ABB Genway Xiamen Electrical Equipment CO., LTD
807A7F (base 16) ABB Genway Xiamen Electrical Equipment CO., LTD
7F,No.23 Wanghai Road,Software Park 2, Lvling Road,
Xiamen Fujian Province 361008
CN

24-DA-B6 (hex) Sistemas de Gestión Energética S.A. de C.V
24DAB6 (base 16) Sistemas de Gestión Energética S.A. de C.V
Calzada de los Fresnos 70-A
Zapopan Jalisoc 45010
MX

B0-7D-62 (hex) Dipl.-Ing. H. Horstmann GmbH
B07D62 (base 16) Dipl.-Ing. H. Horstmann GmbH
Humboldtstraße 2
Heiligenhaus 42579
DE

B8-F5-E7 (hex) WayTools, LLC
B8F5E7
(base 16) WayTools, LLC
401 Wilshire Blvd.
Santa Monica CA 90401
US

B8-19-99 (hex) Nesys
B81999 (base 16) Nesys
Energeticheskaya, 1
Moscow 111116
RU

34-25-5D (hex) Shenzhen Loadcom Technology Co.,Ltd
34255D (base 16) Shenzhen Loadcom Technology Co.,Ltd

Yuehai Building A-13CD,Nanhai Road,Nanshan Area
Shenzhen Guangdong 518054
CN

38-DE-60 (hex) Mohlenhoff GmbH
38DE60 (base 16) Mohlenhoff GmbH
Museumstraße 54a
Salzgitter Niedersachsen 38229
DE

28-39-E7 (hex) Preceno Technology Pte.Ltd.
2839E7 (base 16) Preceno Technology Pte.Ltd.
11F, No.207-2, Sec. 3, Beixin Rd., Xindian Dist.
New Taipei City 23143
TW

30-68-8C (hex) Reach Technology Inc.
30688C (base 16) Reach Technology Inc.
4575 Cushing Parkway
Fremont California 94538
US

FC-00-12 (hex) Toshiba Samsung Storage Technolgoy Korea Corporation
FC0012 (base 16) Toshiba Samsung Storage Technolgoy Korea
Corporation
14 Floor, Bldg. No. 102, Digital Empire2, 486, Sin-dong, Yeongtong-gu, Suwon-si,
Su-won Gyeonggi 443-734
KR

10-EE-D9 (hex) Canoga Perkins Corporation
10EED9 (base 16) Canoga Perkins Corporation
20600 Prairie Street
Chatsworth CA 91311
US

C0-29-F3 (hex) XySystem
C029F3 (base 16) XySystem
#1304 Daerung Post Tower 5
Seoul 153-801
KR

94-DE-0E (hex) SmartOptics AS
94DE0E (base 16) SmartOptics AS
Stalfjaera 9
Oslo N-0975
NO

D4-CE-B8 (hex) Enatel LTD

D4CEB8 (base 16) Enatel LTD
66 Treffers Road
Christchurch Canterbury 8042
NZ

F8-E7-B5 (hex) µTech Tecnologia LTDA
F8E7B5 (base 16) µTech Tecnologia LTDA
Rua Lauro Linhares, 598
Florianopolis Santa Catarina 88036-200
BR

8C-27-1D (hex) QuantHouse
8C271D (base 16) QuantHouse
52 Rue de la Victoire
Paris 75009
FR

18-14-20 (hex) TEB SAS
181420 (base 16) TEB SAS
RD294 -
Corpeau
Meursault Burgundy 21190
FR

4C-A7-4B (hex) Alcatel Lucent
4CA74B (base 16) Alcatel Lucent
Via Energy Park, 14
Vimercate MB 20871
IT

1C-E1-92 (hex) Qisda Corporation
1CE192 (base 16) Qisda Corporation
157 Shan-Ying Road
Gueishan Taoyuan 333
TW

70-6F-81 (hex) Private
706F81 (base 16) Private

C4-3A-9F (hex) Siconix Inc.
C43A9F (base 16) Siconix Inc.
#28, 2333 18th Ave NE
Calgary Alberta T2E 8T6
CA

68-6E-23 (hex) Wi3 Inc.
686E23 (base 16) Wi3 Inc.
P.O. Box 1123

Pittsford NY 14534
US

DC-F0-5D (hex) Letta Teknoloji
DCF05D (base 16) Letta Teknoloji
TUBITAK Teknoloji Gelistirme Bolgesi
KOCAELI 41455
TR

8C-B8-2C (hex) IPitomy Communications
8CB82C (base 16) IPitomy Communications
1940 Northgate Boulevard
Sarasota Florida 34234
US

80-7D-E3 (hex) Chongqing Sichuan Instrument Microcircuit Co.LTD.
807DE3 (base 16) Chongqing Sichuan
Instrument Microcircuit Co.LTD.
Jinhua Road No.309, Beibei,
Chongqing 400700
CN

DC-17-5A (hex) Hitachi High-Technologies Corporation
DC175A (base 16) Hitachi High-Technologies Corporation
794, Higashitoyoi,
Kudamatsu City, Yamaguchi Pref., 744-0002,
JP

54-F5-B6 (hex) ORIENTAL PACIFIC INTERNATIONAL LIMITED
54F5B6 (base 16) ORIENTAL PACIFIC INTERNATIONAL LIMITED
5 ARGUS PLACE
NORTH SHORE CITY AUCKLAND 0627
NZ

90-34-2B (hex) Gatekeeper Systems, Inc.
90342B (base 16) Gatekeeper Systems, Inc.
8 Studebaker
Irvine CA 92618
US

5C-16-C7 (hex) Arista Networks
5C16C7 (base 16) Arista Networks
100 W Evelyn
Mountain View CA 94041
US

90-0D-66 (hex) Digimore Electronics Co., Ltd
900D66 (base 16) Digimore Electronics Co., Ltd

10 FL., No. 61, Yan-Ping South Road
Taipei 100
TW

C8-A1-BA (hex) Neul Ltd
C8A1BA (base 16) Neul Ltd
Suite 42 Innovation Centre
Cambridge
Cambs CB4 0EY
GB

3C-09-6D (hex) Powerhouse Dynamics
3C096D (base 16) Powerhouse Dynamics
1 Bridge Street
Newton MA 02458
US

AC-4A-FE (hex) Hisense Broadband Multimedia Technology Co.,Ltd.
AC4AFE (base 16) Hisense Broadband Multimedia Technology Co.,Ltd.
No.11 Jiangxi Road,Shinan District
Qingdao City Shandong Province 266071
CN

A4-B3-6A (hex) JSC SDO Chromatec
A4B36A (base 16) JSC SDO Chromatec
94, Stroiteley street
Yoshkar-Ola Mari El republic 424000
RU

F4-94-61 (hex) NexGen Storage
F49461 (base 16) NexGen Storage
400 Centennial Blvd.
Louisville CO 80027
US

0C-92-4E (hex) Rice Lake Weighing Systems
0C924E (base 16) Rice Lake Weighing Systems
230 West Coleman St
Rice Lake WI 54868
US

54-35-DF (hex) Symeo GmbH
5435DF (base 16) Symeo GmbH
Prof.-Messerschmitt-Str. 3
Neubiberg Bavaria 85579
DE

B8-CD-A7 (hex) Maxeler Technologies Ltd.

B8CDA7
(base 16) Maxeler Technologies Ltd.
1 Down Place
London UK W6 9JH
GB

F4-3D-80 (hex) FAG Industrial Services GmbH
F43D80 (base 16) FAG Industrial Services GmbH
Kaiserstrasse 100
Herzogenrath NRW 52134
DE

48-DC-FB (hex) Nokia Corporation
48DCFB (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

8C-89-A5 (hex) Micro-Star INT'L CO., LTD
8C89A5 (base 16) Micro-Star INT'L CO., LTD
No.69, Lide st.
Taipei County 235
TW

20-B7-C0 (hex) OMICRON electronics GmbH
20B7C0 (base 16) OMICRON electronics GmbH
Oberes Ried 1
Klaus 6833
AT

80-58-C5 (hex) NovaTec Kommunikationstechnik GmbH
8058C5 (base 16) NovaTec Kommunikationstechnik GmbH
Technologiepark 9
Paderborn NRW 33100
DE

B8-C7-16 (hex) Fiberhome Telecommunication Technologies Co.,LTD
B8C716 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei
430074
CN

D4-2C-3D (hex) Sky Light Digital Limited
D42C3D (base 16) Sky Light Digital Limited
Rm. 1009 Kwong Sang Hong Centre, 151-153 Hoi Bun Road, Kwun Tong, Kowloon,
Hong Kong 999077
CN

58-98-35 (hex) Technicolor Delivery Technologies Belgium NV
589835 (base 16) Technicolor Delivery Technologies Belgium NV
Prins Boudewijnlaan 47
Edegem - Belgium B-2650
BE

B4-A5-A9 (hex) MODI GmbH
B4A5A9 (base 16) MODI GmbH
Kapellenweg 21
REICHSHOF-Sinspert 51580
DE

E8-C3-20 (hex) Austco Marketing & Service (USA) ltd.
E8C320 (base 16) Austco Marketing & Service (USA) ltd.
9155 Sterling St Unit 100
Irving TX 75063
US

C4-36-DA (hex) Rusteletech Ltd.
C436DA (base 16) Rusteletech Ltd.
Ordzhonikidze Str. 11, Bldg. 40, Off. 15
Moscow 115419
RU

0C-39-56 (hex) Observator instruments
0C3956 (base 16) Observator instruments
Rietdekkerstraat 6
Ridderkerk Zuid Holland
2984 BM
NL

DC-A6-BD (hex) Beijing Lanbo Technology Co., Ltd.
DCA6BD (base 16) Beijing Lanbo Technology Co., Ltd.
Room.301.Bidg.4NO.8 Shangdi West Road, Haidian District,
Beijing City 100085
CN

A4-5A-1C (hex) smart-electronic GmbH
A45A1C (base 16) smart-electronic GmbH
Industriestrasse 29
St. Georgen Baden-Württemberg 78122
DE

80-64-59 (hex) Nimbus Inc.
806459 (base 16) Nimbus Inc.
1359 Gwanpyeong-dong, Yuseong-gu
Daejeon 305-509

KR

8C-5C-A1 (hex) d-broad,INC
8C5CA1 (base 16) d-broad,INC
3-17-5 ShinYokohama Kouhoku-Ku
Yokohama Kanagawa 222-0033
JP

F0-DB-30 (hex) Yottabyte
F0DB30 (base 16) Yottabyte
1750 S. Telegraph Road
Bloomfield Twp. MI 48302
US

9C-31-B6 (hex) Kulite Semiconductor Products Inc
9C31B6 (base 16) Kulite Semiconductor Products Inc
1 Willow Tree Rd
Leonia NJ 07605
US

E4-DD-79 (hex) En-Vision America, Inc.
E4DD79 (base 16) En-Vision
America, Inc.
1845 Hovey Ave
Normal IL 61761
US

E8-CC-32 (hex) Micronet LTD
E8CC32 (base 16) Micronet LTD
Hametzuda 27
Azor 58001
IL

D4-3A-E9 (hex) DONGGUAN ipt INDUSTRIAL CO., LTD
D43AE9 (base 16) DONGGUAN ipt INDUSTRIAL CO., LTD
No.66-1.Ist New Area, Nanshe Dist., Chigang,Humen,
Dongguan Guangdong 52390
CN

18-F6-50 (hex) Multimedia Pacific Limited
18F650 (base 16) Multimedia Pacific Limited
1 Matheson Street, Shell Tower 29F/12
000000
HK

68-84-70 (hex) eSSys Co.,Ltd
688470 (base 16) eSSys Co.,Ltd
Daerung Post Tower 5 15F, 60-3

Seoul Geumcheon-gu 153-702
KR

10-C5-86 (hex) BIO SOUND LAB CO., LTD.
10C586 (base 16) BIO SOUND LAB CO., LTD.
Suite 311, 312 SKn Techno Park
Seongnam-si Gyeonggi-do, 462-721
KR

10-76-8A (hex) EoCell
10768A (base 16) EoCell
149 Beaconsfield Street
Silverwater NSW 2128
AU

DC-16-A2 (hex) Medtronic
Diabetes
DC16A2 (base 16) Medtronic Diabetes
18000 Devonshire St
Northridge CA 91325
US

30-8C-FB (hex) Dropcam
308CFB (base 16) Dropcam
160 Spear Street
San Francisco CA 94105
US

F4-4E-FD (hex) Actions Semiconductor Co.,Ltd.(Cayman Islands)
F44EFD (base 16) Actions Semiconductor Co.,Ltd.(Cayman Islands)
Po Box 309GT,Ugland House,South Church Street,
George Town Grand Cayman
KY

24-B8-D2 (hex) Opzoon Technology Co.,Ltd.
24B8D2 (base 16) Opzoon Technology Co.,Ltd.
11th floor, Tower BÂ£Â¬Yintai Center 2 Jianguomenwai St,.
Beijing Asia 100022
CN

A4-99-81 (hex) FuJian Elite Power Tech CO.,LTD.
A49981 (base 16) FuJian Elite Power Tech CO.,LTD.
8th FloorÂ£Â¬56 GuanRi Road
Xiamen Fujian 361009
CN

54-05-5F (hex) Alcatel Lucent
54055F (base 16) Alcatel Lucent

Via Energy Park, 14
Vimercate MB 20871
IT

6C-5D-63 (hex) ShenZhen Rapoo Technology Co., Ltd.
6C5D63
(base 16) ShenZhen Rapoo Technology Co., Ltd.
Block A1,B1,B2,1st second stage, 1st Industrial Park, 3rd Industrial Zone ,Fenghuang Fuyong, BaoAn
ShenZhen 518103
CN

94-16-73 (hex) Point Core SARL
941673 (base 16) Point Core SARL
29/31 Rue du Bois Galon
FONTENAY SOUS BOIS Ile de France 94120
FR

C8-FE-30 (hex) Bejing DAYO Mobile Communication Technology Ltd.
C8FE30 (base 16) Bejing DAYO Mobile Communication Technology Ltd.
Room 712, ULO Park Building No. 601E
Beijing 100102
CN

14-3E-60 (hex) Nokia
143E60 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

5C-56-ED (hex) 3pleplay Electronics Private Limited
5C56ED (base 16) 3pleplay Electronics Private Limited
Plot No 54, Eshwarapuri Colony
Hyderabad Andhra Pradesh 500083
IN

78-02-8F (hex) Adaptive Spectrum and Signal Alignment (ASSIA), Inc.
78028F (base 16) Adaptive Spectrum and Signal Alignment (ASSIA), Inc.
333
Twin Dolphin Drive
Redwood City CA 94065
US

24-C9-DE (hex) Genoray
24C9DE (base 16) Genoray
#812 Byucksan Technopia 434-6 Sangdaewon 1-Dong
Seongnam-City Gyeonggi-Do 462-716
KR

14-07-E0 (hex) Abrantix AG
1407E0 (base 16) Abrantix AG
Foerrlibuckstrasse 66
Zuerich ZH 8005
CH

DC-CF-94 (hex) Beijing Rongcheng Hutong Technology Co., Ltd.
DCCF94 (base 16) Beijing Rongcheng Hutong Technology Co., Ltd.
Room 401A,Building No.4,Yard No.5,
Beijing 100024
CN

A4-DB-2E (hex) Kingspan Environmental Ltd
A4DB2E (base 16) Kingspan Environmental Ltd
180 Gilford Road
Portadown Armagh BT63 5LF
GB

B8-3A-7B (hex) Worldplay (Canada) Inc.
B83A7B (base 16) Worldplay (Canada) Inc.
803 - 24th Ave SE, Unit 200
Calgary Alberta T2G 1P5
CA

D0-EB-9E (hex) Seowoo Inc.
D0EB9E (base 16) Seowoo Inc.
#B101 Seojung B/D, 590-9 Guui-dong, Gwangjin-gu,
Seoul 143-831
KR

04-32-F4
(hex) Partron
0432F4 (base 16) Partron
22-6, Seokwoo-dong
Hwaseong-si Gyeonggi-do 445-170
KR

1C-18-4A (hex) ShenZhen RicherLink Technologies Co.,LTD
1C184A (base 16) ShenZhen RicherLink Technologies Co.,LTD
703,Building W1-A,High-Tech Industrial Park,KeJiNan 1st Road,NanShan,
ShenZhen GuangDong 518057
CN

BC-CD-45 (hex) VOISMART
BCCD45 (base 16) VOISMART
VIA BENIGNO CRESPI 12
MILANO 20159
IT

70-A4-1C (hex) Advanced Wireless Dynamics S.L.
70A41C (base 16) Advanced Wireless Dynamics S.L.
Centro de Empresas UPM oficina 3
Pozuelo de Alarcon Madrid 28223
ES

D4-94-5A (hex) COSMO CO., LTD
D4945A (base 16) COSMO CO., LTD
1-12, Higashi-Gotanda 2-chome
Shinagawa-ku Tokyo 141-0022
JP

30-4C-7E (hex) Panasonic Electric Works Automation Controls Techno Co.,Ltd.
304C7E (base 16) Panasonic Electric Works Automation Controls Techno Co.,Ltd.
2-9-18 Chidori
Oota-ku
Tokyo 146-8540
JP

5C-F2-07 (hex) Speco Technologies
5CF207 (base 16) Speco Technologies
200 New Highway
Amityville New York 11701
US

70-32-D5 (hex) Athena Wireless Communications Inc
7032D5 (base 16) Athena Wireless Communications Inc
12425 W Bell Rd
Surprise AZ 85378
US

78-51-0C (hex) LiveU Ltd.
78510C (base 16) LiveU Ltd.
5 Hagavish St.
Kfar-Saba 44641
IL

44-AA-E8 (hex) Nanotec Electronic GmbH & Co. KG
44AAE8 (base 16) Nanotec Electronic GmbH & Co. KG
Gewerbestrasse 11
Landsham Bavaria 85652
DE

10-37-11 (hex) NORBIT ITS
103711 (base 16) NORBIT ITS
Otto Nielsens Veg 12
Trondheim N-7004

NO

D4-28-B2 (hex) ioBridge, Inc.
D428B2 (base 16) ioBridge, Inc.
225 Cedar Hill Street
Marlborough MA 01752
US

84-27-CE (hex) Corporation of the Presiding Bishop of The Church of Jesus Christ of Latter-day Saints
8427CE (base 16) Corporation of the Presiding
Bishop of The Church of Jesus Christ of Latter-day Saints
Audiovisual Engineering - 2LL
Salt Lake City UT 84150
US

48-D8-FE (hex) ClarIDy Solutions, Inc.
48D8FE (base 16) ClarIDy Solutions, Inc.
7F, No.9, ParkAvenue II Rd., Hsinchu Science Park,
Hsinchu 300
TW

70-E8-43 (hex) Beijing C&W Optical Communication Technology Co.,Ltd.
70E843 (base 16) Beijing C&W Optical Communication Technology Co.,Ltd.
2/F Yufa Plaza, No.19 Xiaoying Beilu, Chaoyang District,
Beijing 100101
CN

2C-7E-CF (hex) Onzo Ltd
2C7ECF (base 16) Onzo Ltd
6 Great Newport Street
London WC2H 7JB
GB

74-B0-0C (hex) Network Video Technologies, Inc
74B00C (base 16) Network Video Technologies, Inc
4005 Bohannon Drive
Menlo Park CA 94025
US

B4-2A-39 (hex) ORBIT MERRET, spol. s r. o.
B42A39 (base 16) ORBIT MERRET, spol. s r. o.
Vodnanska 675/30
Praha 198 00
CZ

E4-D7-1D (hex) Oraya Therapeutics
E4D71D

(base 16) Oraya Therapeutics
8000 Jarvis Avenue Ste. 200
Newark CA 94560
US

BC-BB-C9 (hex) Kellendonk Elektronik GmbH
BCBBC9 (base 16) Kellendonk Elektronik GmbH
Butzweilerhof Allee 4
Cologne NRW 50829
DE

E8-40-40 (hex) Cisco Systems, Inc
E84040 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

D8-9D-B9 (hex) eMegatech International Corp.
D89DB9 (base 16) eMegatech International Corp.
Room 403, No.24 Wucyuan 2nd Rd.,
Sinjhuang City, Taipei County, 238
TW

B4-B8-8D (hex) Thuh Company
B4B88D (base 16) Thuh Company
605 Territorial Dr
Bolingbrook IL 60440
US

4C-73-A5 (hex) KOVE
4C73A5 (base 16) KOVE
14 N. Peoria Street
Chicago IL 60607
US

40-5A-9B (hex) ANOVO
405A9B (base 16) ANOVO
ZI de Bracheux
BEAUVAIS 60000
FR

D0-75-BE (hex) Reno A&E
D075BE (base 16) Reno A&E
4655 Aircenter Circle
Reno
Nevada 89502
US

E4-2A-D3 (hex) Magneti Marelli S.p.A. Powertrain
E42AD3 (base 16) Magneti Marelli S.p.A. Powertrain
Via del Timavo 33
Bologna 40128
IT

E8-3E-B6 (hex) RIM
E83EB6 (base 16) RIM
Phillip Street
Waterloo Ontario N2L 3W8
CA

BC-35-E5 (hex) Hydro Systems Company
BC35E5 (base 16) Hydro Systems Company
3798 Round Bottom Road
Cincinnati Ohio 45244
US

28-CC-FF (hex) Corporacion Empresarial Altra SL
28CCFF (base 16) Corporacion Empresarial Altra SL
Marie Curie 21
Malaga 29590
ES

94-FD-1D (hex) WhereWhen Corp
94FD1D (base 16) WhereWhen Corp
96A Flynn Avenue
Mountain View California 94043
US

4C-07-C9 (hex) COMPUTER OFFICE Co.,Ltd.
4C07C9 (base 16) COMPUTER OFFICE Co.,Ltd.
1368-10 Muramatsu-cho
Ise-shi Mie-ken 515-0507
JP

00-B3-42 (hex) MacroSAN Technologies Co., Ltd.
00B342 (base 16) MacroSAN Technologies Co., Ltd.
Room
102, No.2 Building
Hangzhou Zhejiang 310052
CN

1C-F5-E7 (hex) Turtle Industry Co., Ltd.
1CF5E7 (base 16) Turtle Industry Co., Ltd.
1-12-4 Nishineminami
Tsutiura Ibaraki 300-0842
JP

98-0E-E4 (hex) Private
980EE4 (base 16) Private

44-7D-A5 (hex) VTION INFORMATION TECHNOLOGY (FUJIAN) CO.,LTD
447DA5 (base 16) VTION INFORMATION TECHNOLOGY (FUJIAN) CO.,LTD
Room 502, Wing A, World Trade Center
Beijing,
CN

0C-CD-D3 (hex) EASTRIVER TECHNOLOGY CO., LTD.
0CCDD3 (base 16) EASTRIVER TECHNOLOGY CO., LTD.
30 JINNIU XINCUN
DONGGUAN GUANGDONG 523010
CN

9C-5D-95 (hex) VTC Electronics Corp.
9C5D95 (base 16) VTC Electronics Corp.
5F,No.21,Sec.6,Zhongxiao E.Rd.,Nangang District
Taipei 11575
TW

B8-A8-AF (hex) Logic S.p.A.
B8A8AF (base 16) Logic S.p.A.
Via Galilei 5
Cassina de' Pecchi MI 20060
IT

60-F6-73 (hex) TERUMO CORPORATION
60F673 (base 16) TERUMO CORPORATION
1500,Inokuchi,Nakai-machi
Ashigarakami-gun
Kanagawa 259-0151
JP

F8-76-9B (hex) Neopis Co., Ltd.
F8769B (base 16) Neopis Co., Ltd.
#401 Neo bd., 196-44 Anyang7-Dong
Anyang Kyonggi-Do 430-857
KR

E0-69-95 (hex) PEGATRON CORPORATION
E06995 (base 16) PEGATRON CORPORATION
5F No. 76, Ligong St., Beitou District
Taipei City Taiwan 112
TW

84-DE-3D (hex) Crystal Vision Ltd

84DE3D (base 16) Crystal Vision Ltd
Lion Technology park
Whittlesford/ Cambridge Cambs CB22 4WL
GB

C8-9C-1D (hex) Cisco Systems, Inc
C89C1D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

BC-6E-76 (hex) Green Energy Options Ltd
BC6E76 (base 16) Green Energy Options Ltd
3 St. Mary's Court, Main Street
Cambridge Cambridgeshire CB23 7QS
GB

E8-28-D5 (hex) Cots Technology
E828D5 (base 16) Cots Technology
C-702, Bundang Techno Park, 145,
Sungnam-City Kyounggi-do
463-760
KR

F8-DA-F4 (hex) Taishan Online Technology Co., Ltd.
F8DAF4 (base 16) Taishan Online Technology Co., Ltd.
4/F Fangda Building, South Area, Hi-tech Industial Park,
Shenzhen Guangdong 518057
CN

08-D5-C0 (hex) Seers Technology Co., Ltd
08D5C0 (base 16) Seers Technology Co., Ltd
1210 Techcenter, SKnTechnopark, 190-1
Seongnam-si Gyeonggi-do 462-721
KR

6C-33-A9 (hex) Magicjack LP
6C33A9 (base 16) Magicjack LP
5700 Georgia Avenue
West Palm Beach FL 33405
US

10-8C-CF (hex) Cisco Systems, Inc
108CCF (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E0-A1-D7 (hex) SFR
E0A1D7 (base 16) SFR
40/42 Quai du point du jour
Boulogne Billancourt Hauts de Seine 92659
FR

94-81-A4 (hex) Azuray Technologies
9481A4 (base 16) Azuray Technologies
7470 SW Bridgeport Rd
Durham OR 97224
US

BC-E0-9D (hex) Eoslink
BCE09D (base 16) Eoslink
#602,
900-1
Anyang-City Kyonggi-Do 431-060
KR

CC-76-69 (hex) SEETECH
CC7669 (base 16) SEETECH
19-15, Seoku-dong
Hwasung-si Gyeonggi-do 445-170
KR

AC-20-AA (hex) DMATEK Co., Ltd.
AC20AA (base 16) DMATEK Co., Ltd.
11F.-2, No.386, Shizheng Rd., Xitun Dist.,
Taichung 40757
TW

E4-37-D7 (hex) HENRI DEPAEPE S.A.S.
E437D7 (base 16) HENRI DEPAEPE S.A.S.
75/77 RUE DU PRE BROCHET
SANNOIS 95112
FR

BC-43-77 (hex) Hang Zhou Huite Technology Co.,ltd.
BC4377 (base 16) Hang Zhou Huite Technology Co.,ltd.
Rm1338,Block A¬FuLi Technology Building ,No.328,WenEr Rd
Hang Zhou Zhe Jiang 310012
CN

34-6F-92 (hex) White Rodgers Division
346F92 (base 16) White Rodgers Division
8100 West Florissant
St. Louis MO 63136
US

7C-DD-90 (hex) Shenzhen Ogemray Technology Co., Ltd.
7CDD90 (base 16) Shenzhen Ogemray Technology Co., Ltd.
3 Floor, 9 Building, Minxing Industrial
Zone,
Shenzhen Guangdong 518131
CN

9C-22-0E (hex) TASCAN Systems GmbH
9C220E (base 16) TASCAN Systems GmbH
Max-Planck-Str. 38
Cologne Köln 50858
DE

0C-3C-65 (hex) Dome Imaging Inc
0C3C65 (base 16) Dome Imaging Inc
400 Fifth Av
Waltham MA 02451
US

C8-DF-7C (hex) Nokia Corporation
C8DF7C (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

E4-6C-21 (hex) messMa GmbH
E46C21 (base 16) messMa GmbH
Am Stadtfeld 8
Ixleben Sachsen-Anhalt 39167
DE

00-B0-33 (hex) OAO Izhevskiy radiozavod
00B033 (base 16) OAO Izhevskiy radiozavod
19 Bazisnaya street
Izhevsk Udmurt Republic 426034
RU

08-17-35 (hex) Cisco Systems, Inc
081735 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

CC-BE-71 (hex) OptiLogix BV
CCBE71 (base 16) OptiLogix BV
Joop Geesinkweg 999
Amsterdam NH 1096AZ

NL

0C-46-9D (hex) MS Sedco
0C469D
(base 16) MS Sedco
8701 Castle Park Drive
Indianapolis 46256
US

D8-E3-AE (hex) CIRTEC MEDICAL SYSTEMS
D8E3AE (base 16) CIRTEC MEDICAL SYSTEMS
101B Cooper Court
Los Gatos CA 95032
US

08-B7-EC (hex) Wireless Seismic
08B7EC (base 16) Wireless Seismic
13100 SW Freeway
Sugar Land TX 77478
US

18-AF-9F (hex) DIGITRONIC Automationsanlagen GmbH
18AF9F (base 16) DIGITRONIC Automationsanlagen GmbH
Auf der Langwies 1
Wallbach Hessen 65510
DE

FC-AF-6A (hex) Qulsar Inc
FCAF6A (base 16) Qulsar Inc
Torshamnsgatan 35
Kista SE-16440
SE

14-EE-9D (hex) AirNav Systems LLC
14EE9D (base 16) AirNav Systems LLC
4660 La Jolla Village Dr. - Suite 500
San Diego California CA 92122
US

78-D0-04 (hex) Neousys Technology Inc.
78D004 (base 16) Neousys Technology Inc.
13F.-1, NO.1, BAOSHENG RD.,
YONGHE CITY TAIPEI COUNTY 23444
TW

88-95-B9 (hex) Unified
Packet Systems Crop
8895B9 (base 16) Unified Packet Systems Crop

1F., No32,Lane 15,SEC 6, MinQuan E Rd.,
Taipei Neihu 114
TW

78-A0-51 (hex) iiNet Labs Pty Ltd
78A051 (base 16) iiNet Labs Pty Ltd
Level 1
Subiaco WA 6008
AU

E0-F3-79 (hex) Vaddio
E0F379 (base 16) Vaddio
9433 Science Center Drive
New Hope MN 55428
US

78-B6-C1 (hex) AOBO Telecom Co.,Ltd
78B6C1 (base 16) AOBO Telecom Co.,Ltd
Room1508,Jiangong Building
Hangzhou ZheJiang 310012
CN

B0-9A-E2 (hex) STEMMER IMAGING GmbH
B09AE2 (base 16) STEMMER IMAGING GmbH
Gutenbergstraße 11
Puchheim By 82178
DE

34-BD-F9 (hex) Shanghai WDK Industrial Co.,Ltd.
34BDF9 (base 16) Shanghai WDK Industrial Co.,Ltd.
No.2100,Songzhen Road,Songjiang District
Shanghai 201606
CN

B4-4C-C2 (hex) NR ELECTRIC CO., LTD
B44CC2 (base 16) NR ELECTRIC CO., LTD
69,Suyuan Avenue
Nanjing Jiangsu 211102
CN

48-CB-6E
(hex) Cello Electronics (UK) Ltd
48CB6E (base 16) Cello Electronics (UK) Ltd
Cliff Lodge
Leyburn North Yorkshire DL8 5NS
GB

80-4F-58 (hex) ThinkEco, Inc.

804F58 (base 16) ThinkEco, Inc.
303 Fifth Avenue
New York NY 10016
US

D8-FE-8F (hex) IDFone Co., Ltd.
D8FE8F (base 16) IDFone Co., Ltd.
7F Ace techno tower 5th B/D, 197-22
Guro-dong, Guro-gu Seoul 152-766
KR

88-8C-19 (hex) Brady Corp Asia Pacific Ltd
888C19 (base 16) Brady Corp Asia Pacific Ltd
1, Kaki Bukit Crescent
416236
SG

08-D2-9A (hex) Proformatique
08D29A (base 16) Proformatique
10 bis rue Lucien Voilin
Puteaux 92800
FR

C8-93-83 (hex) Embedded Automation, Inc.
C89383 (base 16) Embedded Automation, Inc.
17345 Abbey Drive
Surrey BC V4N 4M3
CA

00-6D-FB (hex) Vutrix Technologies Ltd
006DFB (base 16) Vutrix Technologies Ltd
Unit 1 Red Lodge Business Park
Weston-super-mare
North Somerset BS24 7TN
GB

90-67-B5 (hex) Alcatel-Lucent
9067B5 (base 16) Alcatel-Lucent
600-700 Mountain Ave.
Murray Hiill NJ 07974-0636
US

44-8C-52 (hex) KTIS CO., Ltd
448C52 (base 16) KTIS CO., Ltd
1208ho-103dong
Ojung-Gu, Bucheon-si Gyeonggi-do 421-808
KR

04-75-F5 (hex) CSST
0475F5 (base 16) CSST
Building 6, CSST industrial park, Tong fuyu Industrial zone
Shenzhen Guangdong 518107
CN

C8-A7-29 (hex) SYStronics Co., Ltd.
C8A729 (base 16) SYStronics Co., Ltd.
#301-1404, Buchun Techno-Park II
Buchun City Kyung gi-do 421-741
KR

44-54-C0 (hex) Thompson Aerospace
4454C0 (base 16) Thompson Aerospace
18 Technology
Irvine CA 92618
US

64-31-7E (hex) Dexin Corporation
64317E (base 16) Dexin Corporation
14F-8, No. 258, Lian Cheng Rd.
Chung Ho City, Taipei Hsien 235
TW

3C-99-F7 (hex) Lansentechnology AB
3C99F7 (base 16) Lansentechnology AB
Rörkullsvägen
4
Halmstad 30241
SE

8C-4D-EA (hex) Cerio Corporation
8C4DEA (base 16) Cerio Corporation
4F.-3., No.192, Sec. 2, Zhongxing Rd., Xindian Dist.
New Taipei City 231
TW

E8-0C-38 (hex) DAEYOUNG INFORMATION SYSTEM CO., LTD
E80C38 (base 16) DAEYOUNG INFORMATION SYSTEM CO., LTD
#826 TAMNIP-DONG, YUSEONG-GO,
DAEJON 305-510
KR

34-DF-2A (hex) Fujikon Industrial Co.,Limited
34DF2A (base 16) Fujikon Industrial Co.,Limited
16/F., Tower 1, Grand Central Plaza,138 Shatin Rural
523930
HK

70-A1-91 (hex) Trendsetter Medical, LLC
70A191 (base 16) Trendsetter Medical, LLC
2030 Ardmore BLVD
Pittsburgh PA 15221
US

24-BA-30 (hex) Technical Consumer Products, Inc.
24BA30 (base 16) Technical Consumer Products, Inc.
325 Campus Drive
Aurora OH 44202
US

E0-8A-7E (hex) Exponent
E08A7E (base 16) Exponent
149 Commonwealth Drive
Menlo Park CA 94025
US

18-8E-D5
(hex) TP Vision Belgium N.V. - innovation site Brugge
188ED5 (base 16) TP Vision Belgium N.V. - innovation site Brugge
Pathoekeweg 11
Bruges West Flanders 8000
BE

40-B2-C8 (hex) Nortel Networks
40B2C8 (base 16) Nortel Networks
CARRETERA BASE AEREA # 5850
Zapopan Jalisco 44130
MX

70-8B-78 (hex) citygrow technology co., ltd
708B78 (base 16) citygrow technology co., ltd
rm1404, blk A, ,5 - 21 Pak Tin Par Street
Tsuen Wan
HK

A8-B0-AE (hex) BizLink Special Cables Germany GmbH
A8B0AE (base 16) BizLink Special Cables Germany GmbH
Eschstrasse 1
Friesoythe 26169
DE

E4-27-71 (hex) Smartlabs
E42771 (base 16) Smartlabs
72, Oktyabrskaya Street
Moscow 127521

RU

70-B0-8C (hex) Shenou Communication Equipment Co.,Ltd
70B08C (base 16) Shenou Communication Equipment Co.,Ltd
No.118 Middle Juguang Road, High & New Industrial Zone
Wenzhou Zhejiang 325029
CN

C0-3B-8F
(hex) Minicom Digital Signage
C03B8F (base 16) Minicom Digital Signage
24 Hebron Road
Jerusalem 93542
IL

20-FE-DB (hex) M2M Solution S.A.S.
20FEDB (base 16) M2M Solution S.A.S.
Centre d'Affaires Regus Bat.D
Mougins 06254
FR

44-91-DB (hex) Shanghai Huaqin Telecom Technology Co.,Ltd
4491DB (base 16) Shanghai Huaqin Telecom Technology Co.,Ltd
No.1 Building,399 Keyuan Road, Zhangjian Hi-Tech Park,
shanghai shanghai 201203
CN

C4-F4-64 (hex) Spica international
C4F464 (base 16) Spica international
Pot k sejmiscu 33
Ljubljana 1000
SI

60-2A-54 (hex) CardioTek B.V.
602A54 (base 16) CardioTek B.V.
Amerikalaan 70
Maastricht Airport Limburg 6199AE
NL

BC-FF-AC (hex) TOPCON CORPORATION
BCFFAC (base 16) TOPCON CORPORATION
75-1, Hasunuma-cho
Itabashi-ku TOKYO 174-8580
JP

14-D7-6E (hex) CONCH ELECTRONIC Co.,Ltd
14D76E (base 16) CONCH ELECTRONIC

Co.,Ltd
No.3 Keji 1st Load.
Tainan 70955
TW

50-7D-02 (hex) BIODIT
507D02 (base 16) BIODIT
Calle Gustave Eiffel 3
Paterna Valencia 46980
ES

B4-A4-E3 (hex) Cisco Systems, Inc
B4A4E3 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

94-DD-3F (hex) A+V Link Technologies, Corp.
94DD3F (base 16) A+V Link Technologies, Corp.
5F., No.550, Xianzheng 2nd Rd.
Zhubei City Hsinchu Country 30268
TW

C8-A1-B6 (hex) Shenzhen Longway Technologies Co., Ltd
C8A1B6 (base 16) Shenzhen Longway Technologies Co., Ltd
Suite 707,Incubation Building, China Academy of Science&Tech Development, South area
Shenzhen Guangdong 518057
CN

A8-55-6A (hex) 3S System Technology Inc.
A8556A (base 16) 3S System Technology Inc.
6F, No. 5, Ln. 16, Sec. 2, Sichuan Rd., Banqiao Dist.,
New Taipei City 220620
TW

D0-57-4C (hex) Cisco Systems, Inc
D0574C (base 16) Cisco Systems,
Inc
80 West Tasman Drive
San Jose CA 94568
US

F8-DA-E2 (hex) NDC Technologies
F8DAE2 (base 16) NDC Technologies
8001 Technology Blvd
Dayton OH 45424
US

F4-42-27 (hex) S & S Research Inc.
F44227 (base 16) S & S Research Inc.
89 Access Rd #10
Norwood MA 02062
US

8C-1F-94 (hex) RF Surgical System Inc.
8C1F94 (base 16) RF Surgical System Inc.
9740 Appaloosa Road
San Diego CA 92131
US

AC-83-F0 (hex) Cobalt Digital Inc.
AC83F0 (base 16) Cobalt Digital Inc.
2506 Galen Drive
Champaign IL 61821
US

CC-6B-98 (hex) Minetec Wireless Technologies
CC6B98 (base 16) Minetec Wireless Technologies
10 Kembla Way
Willetton WA 6155
AU

3C-04-BF (hex) PRAVIS SYSTEMS Co.Ltd.,
3C04BF (base 16) PRAVIS SYSTEMS Co.Ltd.,
4F, 5F Jaeyoon Bld, 75-3 Yangjae-Dong,
Seoul Seocho-Gu 137-889
KR

7C-55-E7 (hex) YSI, Inc.
7C55E7 (base 16) YSI, Inc.
1725
Brannum Lane
Yellow Springs Ohio 45387
US

70-5E-AA (hex) Action Target, Inc.
705EAA (base 16) Action Target, Inc.
PO Box 636
Provo UT 84603
US

34-F9-68 (hex) ATEK Products, LLC
34F968 (base 16) ATEK Products, LLC
210 NE 10th Avenue
Brainerd MN 56401
US

44-5E-F3 (hex) Tonalite Holding B.V.
445EF3 (base 16) Tonalite Holding B.V.
Nieuw Amsterdamsestraat 40
Emmen Drenthe 7814 VA
NL

68-DB-96 (hex) OPWILL Technologies CO .,LTD
68DB96 (base 16) OPWILL Technologies CO .,LTD
Room 415,Digital Media Building,NO.7 Shangdi Information Road,HaiDian District,
Beijing 100085
CN

94-A7-BC (hex) BodyMedia, Inc.
94A7BC (base 16) BodyMedia, Inc.
420 Fort Duquesne Blvd
Pittsburgh PA 15222
US

B4-C8-10 (hex) Umpi srl
B4C810 (base 16) Umpi srl
Via Consolare Rimini-San Marino, 11
Rimini 47923
IT

58-50-76 (hex) Linear Equipamentos Eletronicos SA
585076 (base
16) Linear Equipamentos Eletronicos SA
Praca Linear 100
Santa Rita do Sapucai MG 37540000
BR

F0-F9-F7 (hex) IES GmbH & Co. KG
F0F9F7 (base 16) IES GmbH & Co. KG
Darmcher Grund 22
Meinerzhagen 58540
DE

64-A2-32 (hex) OOO Samlight
64A232 (base 16) OOO Samlight
44A, Dubninskaya str.,
Moscow 127591
RU

64-FC-8C (hex) Zonar Systems
64FC8C (base 16) Zonar Systems
18200 Cascade Ave South
Seattle WA 98118

US

0C-8D-98 (hex) TOP EIGHT IND CORP
0C8D98 (base 16) TOP EIGHT IND CORP
8F.,No79-1 Zhouzi St., Neihu District, Taipei City (Neihu Technology Park)
Taipei 11493
TW

98-03-A0 (hex) ABB n.v. Power Quality Products
9803A0 (base 16) ABB n.v. Power Quality Products
10 allée centrale
Jumet 6040
BE

DC-FA-D5 (hex) STRONG Ges.m.b.H.
DCFAD5 (base 16) STRONG Ges.m.b.H.
Franz-Josefs-Kai 1
Vienna 1010
AT

6C-8D-65 (hex) Wireless Glue Networks,
Inc.
6C8D65 (base 16) Wireless Glue Networks, Inc.
1601 N. Main Street, Suite 202
Walnut Creek CA 94596
US

40-C7-C9 (hex) Naviit Inc.
40C7C9 (base 16) Naviit Inc.
3058A Scott Blvd.
Santa Clara CA 95054
US

7C-BB-6F (hex) Cosco Electronics Co., Ltd.
7CBB6F (base 16) Cosco Electronics Co., Ltd.
#1101, ENC Dream tower, 327-27
Seoul 153-793
KR

20-B0-F7 (hex) Enclustra GmbH
20B0F7 (base 16) Enclustra GmbH
Technoparkstrasse 1
Zurich ZH CH-8005
CH

54-31-31 (hex) Raster Vision Ltd
543131 (base 16) Raster Vision Ltd
Unit 1, Crundalls

Tonbridge Kent TN12 7EA
GB

D0-E3-47 (hex) Yoga
D0E347 (base 16) Yoga
Tammsaare tee 47
Tallinn Harjumaa 11316
EE

38-58-0C (hex) Panaccess Systems GmbH
38580C (base 16) Panaccess Systems GmbH
Gutenbergstr. 8
Ismaning BY 85737
DE

44-51-DB (hex) Raytheon BBN Technologies
4451DB (base 16) Raytheon BBN Technologies
10
Moulton Street
Cambridge MA 02138
US

F0-ED-1E (hex) Bilkon Bilgisayar Kontrollu Cih. Im.Ltd.
F0ED1E (base 16) Bilkon Bilgisayar Kontrollu Cih. Im.Ltd.
Gersan Sanayi Sitesi 658.Sokak No:16
ANKARA 06370
TR

F8-C0-91 (hex) Highgates Technology
F8C091 (base 16) Highgates Technology
1415 Highgates Ave
Los Angeles CA 90042
US

AC-9B-84 (hex) Smak Tecnologia e Automacao
AC9B84 (base 16) Smak Tecnologia e Automacao
Av. Sto. Antonio, 201 - Bela Vista
Osasco São Paulo CEP 06086-075
BR

90-F2-78 (hex) Radius Gateway
90F278 (base 16) Radius Gateway
520 E. Montford Ave
Ada OH 45810
US

80-66-29 (hex) Prescope Technologies CO.,LTD.
806629 (base 16) Prescope Technologies CO.,LTD.

12F-1,No.192,Sec 2,Chung Hsin Road
Hsin Tien City Taipei County 23146
TW

4C-60-D5 (hex) airPointe of New Hampshire
4C60D5 (base 16) airPointe of New Hampshire
35E Industrial
Way
Rochester NH 03867
US

C4-16-FA (hex) Prysm Inc
C416FA (base 16) Prysm Inc
180 Baytech Drive
San Jose California 95134
US

50-6F-9A (hex) Wi-Fi Alliance
506F9A (base 16) Wi-Fi Alliance
3925 W. Braker Lane
Austin TX 78759
US

84-29-14 (hex) EMPORIA TELECOM Produktions- und VertriebsgesmbH & Co KG
842914 (base 16) EMPORIA TELECOM Produktions- und VertriebsgesmbH & Co KG
Industriezeile 36,
Linz 4020
AT

BC-7D-D1 (hex) Radio Data Comms
BC7DD1 (base 16) Radio Data Comms
5/20-30 Stubbs Street
Silverwater New South Wales (NSW) 2128
AU

64-67-07 (hex) Beijing Omnific Technology, Ltd.
646707 (base 16) Beijing Omnific Technology, Ltd.
Rm. 402, Building 1, Shui Mu Qing Hua Community
Beijing 100190
CN

58-FD-20 (hex) Systemhouse Solutions AB
58FD20 (base 16) Systemhouse Solutions AB
Mikrofonvagen 28
STOCKHOLM 126 81
SE

24-1F-2C (hex) Calsys, Inc.

241F2C
(base 16) Calsys, Inc.
2700 Augustine drive, Ste145
Santa Clara California 95054
US

F0-BD-F1 (hex) Sipod Inc.
F0BDF1 (base 16) Sipod Inc.
4633 Old Ironsides Drive, #400
Santa Clara CA 95054
US

CC-43-E3 (hex) Trump s.a.
CC43E3 (base 16) Trump s.a.
rue de la Maitrise 9
Nivelles 1400
BE

40-40-22 (hex) ZIV
404022 (base 16) ZIV
Polígono Parque Tecnológico, 210
ZAMUDIO VIZCAYA 48170
ES

A8-5B-B0 (hex) Shenzhen Dehoo Technology Co.,Ltd
A85BB0 (base 16) Shenzhen Dehoo Technology Co.,Ltd
5C,Tianzhan Building Tianan Cyberpark,
ShenZhen Guang Dong 518040
CN

AC-A0-16 (hex) Cisco Systems, Inc
ACA016 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

58-E7-47 (hex) Deltanet AG
58E747 (base 16) Deltanet AG
Riedstrasse 8
Dietikon Zurich 8953
CH

40-61-8E (hex) Stella-Green Co
40618E (base 16) Stella-Green Co
1-5-16
Edobori, Nishi-ku
Osaka 550-0002
JP

68-E4-1F (hex) Unglaube Identech GmbH
68E41F (base 16) Unglaube Identech GmbH
An der Moosach 3a
Massenhausen Bayern 85376
DE

08-76-95 (hex) Auto Industrial Co., Ltd.
087695 (base 16) Auto Industrial Co., Ltd.
14Floor, #235 Hanshin IT Tower,
Seoul 152-768
KR

AC-CE-8F (hex) HWA YAO TECHNOLOGIES CO., LTD
ACCE8F (base 16) HWA YAO TECHNOLOGIES CO., LTD
NO. 6, LN. 48, NANSING RD.,
YONGKANG CITY, TAINAN COUNTY 710
TW

8C-92-36 (hex) Aus.Linx Technology Co., Ltd.
8C9236 (base 16) Aus.Linx Technology Co., Ltd.
6F-2, No. 190, Sec. 2, Zhongxing Rd., Xindian Dist.,
New Taipei City 23146
TW

F8-91-2A (hex) GLP German Light Products GmbH
F8912A (base 16) GLP German Light Products GmbH
Im Stöckmädle 13
Karlsbad BW 76307
DE

10-C7-3F (hex) Midas Klark Teknik Ltd
10C73F (base 16) Midas Klark Teknik Ltd
Klark Teknik Building
Kidderminster
Worcestershire DY11 7HJ
GB

D4-82-3E (hex) Argosy Technologies, Ltd.
D4823E (base 16) Argosy Technologies, Ltd.
73-221 Haystack Road
Palm Desert CA 92260
US

00-93-63 (hex) Uni-Link Technology Co., Ltd.
009363 (base 16) Uni-Link Technology Co., Ltd.
7-5, No.66, Sec.2, Nan-Kan Rd., Lu-Chu Hsiang,Taoyuan,Taiwan
Taoyuan Taiwan 338

TW

7C-76-73 (hex) ENMAS GmbH
7C7673 (base 16) ENMAS GmbH
Holzkoppelweg 23
Kiel Schleswig-Holstein 24251
DE

38-9F-83 (hex) OTN Systems N.V.
389F83 (base 16) OTN Systems N.V.
Industrielaan 17b
Olen 2250
BE

BC-6A-16 (hex) tdvine
BC6A16 (base 16) tdvine
301 Maison Maru Building
Seoul 135-010
KR

00-3A-9D (hex) NEC Platforms, Ltd.
003A9D (base 16) NEC Platforms, Ltd.
800 Shimomata
Kakegawa Shizuoka 436-8501
JP

00-35-32 (hex) Electro-Metrics Corporation
003532 (base 16) Electro-Metrics Corporation
231
Enterprise Road
Johnstown New York 12095
US

08-1F-F3 (hex) Cisco Systems, Inc
081FF3 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

44-37-6F (hex) Young Electric Sign Co
44376F (base 16) Young Electric Sign Co
1651 N 1000 W
Logan UT 84321
US

6C-DC-6A (hex) Promethean Limited
6CDC6A (base 16) Promethean Limited
Activlab

Blackburn Lancashire BB1 5SN
GB

90-55-AE (hex) Ericsson, EAB/RWI/K
9055AE (base 16) Ericsson, EAB/RWI/K
Skolgången 17
Gävle SE-800 06
SE

84-C7-27 (hex) Gnodal Ltd
84C727 (base 16) Gnodal Ltd
178 - 180 Hotwell Road
Bristol BS8 4RP
GB

28-CD-4C (hex) Individual Computers GmbH
28CD4C (base 16) Individual Computers GmbH
Im Zemmer 6
Woffelsbach NRW 52152
DE

8C-53-F7 (hex) A&D ENGINEERING CO., LTD.
8C53F7 (base 16) A&D ENGINEERING CO., LTD.
336-6 Dangsandong 6-ga, Yeongdeungpo-gu
Seoul
150-810
KR

88-87-17 (hex) CANON INC.
888717 (base 16) CANON INC.
3-30-2
Ohta-Ku Tokyo 146-8501
JP

44-A6-89 (hex) PROMAX ELECTRONICA SA
44A689 (base 16) PROMAX ELECTRONICA SA
FRANCESC MORAGAS 71-75
HOSPITALET DE LLOBREGAT BARCELONA 08907
ES

10-10-B6 (hex) McCain Inc
1010B6 (base 16) McCain Inc
2365 Oak Ridge Way
Vista CA 92081
US

F0-24-08 (hex) Talaris (Sweden) AB
F02408 (base 16) Talaris (Sweden) AB

Taljs Sodra Industriomrade
Flen 64284
SE

80-81-A5 (hex) TONGQING COMMUNICATION EQUIPMENT (SHENZHEN) Co.,Ltd
8081A5 (base 16) TONGQING COMMUNICATION EQUIPMENT (SHENZHEN) Co.,Ltd
Tongqing Industry Park,jiuwei,xixiang Town,Baoan District,
Shenzhen Guangdong 518126
CN

44-E4-9A (hex) OMNITRONICS PTY LTD
44E49A (base 16) OMNITRONICS PTY LTD
27 SARICH CRT
OSBORNE PARK WA 6017
AU

08-F2-F4 (hex) Net One Partners Co.,Ltd.
08F2F4 (base 16) Net
One Partners Co.,Ltd.
2-8 Higashi Shinagawa 2-chome,
Tokyo 1400002
JP

0C-7D-7C (hex) Kexiang Information Technology Co, Ltd.
0C7D7C (base 16) Kexiang Information Technology Co, Ltd.
Room 1502, Longxi Hotel No.3788 Jiangnan Avenue.
Hangzhou Zhejiang 310053
CN

B4-82-FE (hex) ASKEY COMPUTER CORP
B482FE (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585
TW

30-7C-30 (hex) RIM
307C30 (base 16) RIM
295 Phillip Street
Waterloo Ontario N2L 3W8
CA

BC-4E-3C (hex) CORE STAFF CO., LTD.
BC4E3C (base 16) CORE STAFF CO., LTD.
Shin-osaka Oriental Bldg. 14F, 7-1-26 Nishinakajima
Yodogawa-ku Osaka 532-0011
JP

30-37-A6 (hex) Cisco Systems, Inc

3037A6 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

DC-1D-9F (hex) U & B tech
DC1D9F (base 16) U & B tech
2F, Daeyoung buliding, 1423-6, Kwanyang-1Dong,
Anyang-Si
Gyeonggi-Do 431-061
KR

B0-90-74 (hex) Fulan Electronics Limited
B09074 (base 16) Fulan Electronics Limited
Flat B&C,3/F,A1 Block, Gaoxin Cyber-Tech Zone,Nanshan
Shenzhen Guangdong 518057
CN

94-F6-92 (hex) Geminico co.,Ltd.
94F692 (base 16) Geminico co.,Ltd.
#102-1112, Chunui-Technopark, 200-1,
Bucheon-city Kyunggi-do 420-857
KR

78-5C-72 (hex) Hioso Technology Co., Ltd.
785C72 (base 16) Hioso Technology Co., Ltd.
6th Floor, 12th Building, Wangtang Industrial Zone,
Shenzhen Guangdong 518055
CN

58-05-56 (hex) Elettronica GF S.r.L.
580556 (base 16) Elettronica GF S.r.L.
Via Vittori, 63
FAENZA RA 48018
IT

10-44-5A (hex) Shaanxi Hitech Electronic Co., LTD
10445A (base 16) Shaanxi Hitech Electronic Co., LTD
35 Tuanjienan Rode,
Xian Shaanxi 710075
CN

F4-76-26 (hex) Viltechmeda UAB
F47626 (base 16) Viltechmeda UAB
Kalvariju 125
Vilnius LT-08221
LT

68-EF-BD
(hex) Cisco Systems, Inc
68EFBD (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

F0-2F-D8 (hex) Bi2-Vision
F02FD8 (base 16) Bi2-Vision
16-504, 21-ban, Shimomaruko 4-chome, Oota-ku
Tokyo 146-0092
JP

50-2A-8B (hex) Telekom Research and Development Sdn Bhd
502A8B (base 16) Telekom Research and Development Sdn Bhd
TMRND Innovation Centre
Cyberjaya Selangor 63000
MY

EC-43-E6 (hex) AWCER Ltd.
EC43E6 (base 16) AWCER Ltd.
100-413 Bucheon Technopark
Bucheon-city Gyeonggi-do 421-741
KR

0C-84-11 (hex) A.O. Smith Water Products
0C8411 (base 16) A.O. Smith Water Products
25589 Hwy 1
McBee SC 29101
US

98-BC-99 (hex) Edeltech Co.,Ltd.
98BC99 (base 16) Edeltech Co.,Ltd.
#302 Jamae Bldg, 1010-28, Sadang-dong, Dongjak=gu
Seoul 156-824
KR

90-47-16 (hex) RORZE CORPORATION
904716 (base 16) RORZE CORPORATION
1588-2 Michinoue,
Kannabe-cho
Fukuyama Hiroshima 720-2104
JP

88-94-F9 (hex) Gemicom Technology, Inc.
8894F9 (base 16) Gemicom Technology, Inc.
16F, Building B, No. 98, Sec 1, Hsin-Tai-Wu Rd.
Hsi-Chih city Taipei 22102

TW

50-2A-7E (hex) Smart electronic GmbH
502A7E (base 16) Smart electronic GmbH
Industrie Str. 29
St. Georgen 78112
DE

F0-26-4C (hex) Sigrist-Photometer AG
F0264C (base 16) Sigrist-Photometer AG
Hofurlistrasse 1
Ennetbürgen 6373
CH

0C-17-F1 (hex) TELECSYS
0C17F1 (base 16) TELECSYS
31 chemin du fief aux pretres
L'ORBRIE 85200
FR

78-12-B8 (hex) ORANTEK LIMITED
7812B8 (base 16) ORANTEK LIMITED
5/F, Building E, Dakan Tech Park, Dakan village, Xili Town, Nanshan District, Shenzhen, China
Shenzhen Guangdong 518000
CN

10-B7-F6 (hex) Plastoform Industries Ltd.
10B7F6 (base 16) Plastoform Industries Ltd.
Units 1506A - 1512, Mita Centre,
Kwai Chung,

HK

44-8E-81 (hex) VIG
448E81 (base 16) VIG
705 Hanshin IT Tower, 60-18, Kasan-dong, Geumcheon-gu
Seoul KSXX0022
KR

54-42-49 (hex) Sony Corporation
544249 (base 16) Sony Corporation
Gotenyama Tec 5-1-2
Tokyo Shinagawa-ku 141-0001
JP

E0-AB-FE (hex) Orb Networks, Inc.
E0ABFE (base 16) Orb Networks, Inc.
428 13th Street

Oakland CA 94612
US

08-76-18 (hex) ViE Technologies Sdn. Bhd.
087618 (base 16) ViE Technologies Sdn. Bhd.
no. 85-A, Lintang Bayan Lepas 11,
Bayan Lepas Penang 11900
MY

D0-E4-0B (hex) Wearable Inc.
D0E40B (base 16) Wearable Inc.
3825 Charles Dr.
Northbrook IL 60062
US

74-7E-1A (hex) Red Embedded Design Limited
747E1A (base 16) Red Embedded Design Limited
The Wave
Shipley West Yorkshire BD17 7Du
GB

14-A8-6B (hex) ShenZhen Telacom Science&Technology Co., Ltd
14A86B (base 16) ShenZhen Telacom Science&Technology Co., Ltd
B1701/1705
Pavilion, Hua Qiang Bei RD4002, Futian District
ShenZhen GuangDong 518028
CN

0C-C3-A7 (hex) Meritec
0CC3A7 (base 16) Meritec
P.O. Box 8003
Painesville Ohio 44077
US

A4-DA-3F (hex) Bionics Corp.
A4DA3F (base 16) Bionics Corp.
1406 Masters Tower
Seoul 121-748
KR

A8-C2-22 (hex) TM-Research Inc.
A8C222 (base 16) TM-Research Inc.
Hiyoshi Honcho 1-15-4
Yokohama Kanagawa 223-0062
JP

00-3D-41 (hex) Hatteland Computer AS
003D41 (base 16) Hatteland Computer AS

Aamsosen
Nedre Vats Rogaland 5578
NO

CC-50-76 (hex) Ocom Communications, Inc.
CC5076 (base 16) Ocom Communications, Inc.
13F-6, No. 1, Bao Sheng Rd.,
Yong Ho City 234
TW

5C-87-78 (hex) Cybertelbridge co.,ltd
5C8778 (base 16) Cybertelbridge co.,ltd
#901 Acehighend tower 2
Seoul 152-050
KR

38-BB-23 (hex) OzVision America LLC
38BB23 (base 16) OzVision America LLC
400 West
Cummings Park
Woburn MA 01801
US

00-3A-9B (hex) Cisco Systems, Inc
003A9B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

2C-34-27 (hex) ERCO & GENER
2C3427 (base 16) ERCO & GENER
ZI de SAINT LAMBERT DES LEVEES
SAUMUR 49412
FR

80-91-2A (hex) Lih Rong electronic Enterprise Co., Ltd.
80912A (base 16) Lih Rong electronic Enterprise Co., Ltd.
2F, No. 2, Lane 387, Hsin Shu Road
Hsin Chuang Taipei 242
TW

80-3B-9A (hex) ghe-ces electronic ag
803B9A (base 16) ghe-ces electronic ag
Hoemelstraße 17
Wald ZH 8636
CH

74-32-56 (hex) NT-ware Systemprg GmbH

743256 (base 16) NT-ware Systemprg GmbH
Niedersachsenstrasse 6
Bad Iburg NDS 49186
DE

4C-C4-52 (hex) Shang Hai Tyd. Electon Technology Ltd.
4CC452 (base 16) Shang Hai Tyd. Electon Technology Ltd.
Room No.5,N0.396,GuiLin Road,
Shang Hai 200233
US

7C-CB-0D (hex) Antaira Technologies,
LLC
7CCB0D (base 16) Antaira Technologies, LLC
445 Capricorn St.
Brea California 92821
US

C0-1E-9B (hex) Pixavi AS
C01E9B (base 16) Pixavi AS
Dusavikveien 39
Stavanger 4003
NO

C4-E1-7C (hex) U2S co.
C4E17C (base 16) U2S co.
104-706, SK Ventium Building, 522, Dangjeong-Dong
Gunpo-si Geonggi-do 435-776
KR

20-BF-DB (hex) DVL
20BFDB (base 16) DVL
21 Gradinilor Str
Chisinau MD2001
MD

A0-5D-E7 (hex) DIRECTV, Inc.
A05DE7 (base 16) DIRECTV, Inc.
2230 E. Imperial Hwy
El Segundo CA 90245
US

44-83-12 (hex) Star-Net
448312 (base 16) Star-Net
Egoz 64
Kiryat Byalik Israel 27000
IL

DC-E2-AC (hex) Lumens Digital Optics Inc.
DCE2AC (base 16) Lumens Digital Optics Inc.
5F, No.35, Sintai Rd., Jhubei City
Jhubei HsinChu 302
TW

98-D8-8C (hex) Nortel Networks
98D88C (base 16) Nortel Networks
CARRETERA BASE AEREA # 5850
Zapopan
Jalisco 44130
MX

78-19-2E (hex) NASCENT Technology
78192E (base 16) NASCENT Technology
2744 Yorkmont RD
Charlotte NC 28208
US

48-EB-30 (hex) ETERNA TECHNOLOGY, INC.
48EB30 (base 16) ETERNA TECHNOLOGY, INC.
3939 veselich ave
los angeles california 90039
US

4C-32-2D (hex) TELEDATA NETWORKS
4C322D (base 16) TELEDATA NETWORKS
10 Hasadnaot Street
HERZLIYA 46120
IL

AC-86-7E (hex) Create New Technology (HK) Limited Company
AC867E (base 16) Create New Technology (HK) Limited Company
Rm B 10/F JinFeng Building,1001 ShangBu South Road,FuTian District
Shen Zhen Guang Dong 518031
CN

8C-59-8B (hex) C Technologies AB
8C598B (base 16) C Technologies AB
Traktorvägen 11
Lund Skåne 226 60
SE

D4-4C-A7 (hex) Informtekhnika & Communication, LLC
D44CA7 (base 16) Informtekhnika & Communication, LLC
1, build. 2/1, Verhnaya
Moscow 107140
RU

A0-40-25 (hex) Actioncable,
Inc.
A04025 (base 16) Actioncable, Inc.
998 Westlynn Way
Cupertino CA 95014
US

4C-4B-68 (hex) Mobile Device, Inc.
4C4B68 (base 16) Mobile Device, Inc.
8F-1, No. 145, Sianjheng 9th Rd.,
Jhubei City, Hsinchu County 30251
TW

20-12-57 (hex) Most Lucky Trading Ltd
201257 (base 16) Most Lucky Trading Ltd
Room403 No.506 Zhongshan South 2nd Road,Xuhui District
Shanghai 200032
CN

E8-DA-AA (hex) VideoHome Technology Corp.
E8DAAA (base 16) VideoHome Technology Corp.
4F-1, No. 192, Da Tung Rd., Sec. 3, Hsichih,
Taipei Hsien 221
TW

64-7D-81 (hex) YOKOTA INDUSTRIAL CO,.LTD
647D81 (base 16) YOKOTA INDUSTRIAL CO,.LTD
5-55 NISHIIWATA
HIGASHI OSAKA-CITY OSAKA 578-0947
JP

7C-CF-CF (hex) Shanghai SEARI Intelligent System Co., Ltd
7CCFCF (base 16) Shanghai SEARI Intelligent System Co., Ltd
No.505 Wuning Road, Putuo District
Shanghai 200063
CN

DC-33-50
(hex) TechSAT GmbH
DC3350 (base 16) TechSAT GmbH
Gruber Str. 46c
Poing BY 85586
DE

E0-64-BB (hex) DigiView S.r.l.
E064BB (base 16) DigiView S.r.l.
Via Senigallia 18/2

Milano 20161
IT

68-AA-D2 (hex) DATECS LTD.,
68AAD2 (base 16) DATECS LTD.,
BUL. TSARIGRADSKO SHOSSE 115A
SOFIA 1784
BG

A4-DE-50 (hex) Total Walther GmbH
A4DE50 (base 16) Total Walther GmbH
Frankfurter Ring 17
Munich 80807
DE

D8-D6-7E (hex) GSK CNC EQUIPMENT CO.,LTD
D8D67E (base 16) GSK CNC EQUIPMENT CO.,LTD
No.7,1st Street,Luochong North Road,Luochongwei,No.7,1st Street,Luochong North Road,Luochongwei,No.7,1st Street,Luochong North Road,Luochongwei,
Guangzhou Guangdong 510165
CN

B4-B5-AF (hex) Minsung Electronics
B4B5AF (base 16) Minsung Electronics
Mega-valley #620
Anyang-si Kyeonggi-do 431-767
KR

04-B3-B6 (hex) Seamap (UK) Ltd
04B3B6 (base 16) Seamap (UK) Ltd
Unit 34,
The Maltings
Shepton Mallet Somerset BA4 5QE
GB

1C-F0-61 (hex) SCAPS GmbH
1CF061 (base 16) SCAPS GmbH
Bahnhofstraße 17
Deisenhofen Bavaria 82041
DE

A8-93-E6 (hex) JIANGXI JINGGANGSHAN CKING COMMUNICATION TECHNOLOGY CO.,LTD
A893E6 (base 16) JIANGXI JINGGANGSHAN CKING COMMUNICATION TECHNOLOGY CO.,LTD
5F,301building,Tairan High-tech park, Chegongmiao,Futian zone,
SHENZHEN GUANGDONG 518000
CN

C4-AA-A1 (hex) SUMMIT DEVELOPMENT, spol.s r.o.

C4AAA1 (base 16) SUMMIT DEVELOPMENT, spol.s r.o.
K Vodoteci 197
Orech Praha-zapad 252 25
CZ

30-32-D4 (hex) Hanilstm Co., Ltd.
3032D4 (base 16) Hanilstm Co., Ltd.
138-6, Sangdaewon-dong Jungwon-gu
Seongnam Kyonggi-do 462-120
KR

04-B4-66 (hex) BSP Co., Ltd.
04B466 (base 16) BSP Co., Ltd.
162-10
Gumi Gyeungsangbuk Do 730-902
KR

68-CC-9C (hex) Mine Site Technologies
68CC9C (base 16) Mine Site Technologies
113 Wicks Road
North
Ryde NSW 2113
AU

14-6E-0A (hex) Private
146E0A (base 16) Private

0C-E7-09 (hex) Fox Crypto B.V.
0CE709 (base 16) Fox Crypto B.V.
P.O. box 638
Delft ZH 2600 AP
NL

6C-0F-6A (hex) JDC Tech Co., Ltd.
6C0F6A (base 16) JDC Tech Co., Ltd.
370-12 Daemyung-ri Daegot-myun
Kimpo-si Kyunggi-do 410-853
KR

F0-BC-C8 (hex) MaxID (Pty) Ltd
F0BCC8 (base 16) MaxID (Pty) Ltd
43 Homestead Road
Johannesburg Gauteng 2128
ZA

24-82-8A (hex) Prowave Technologies Ltd.
24828A (base 16) Prowave Technologies Ltd.
2F,No.879-16,Zhongjiang Road

Shanghai 200333
CN

00-27-1B (hex) Alec Sicherheitssysteme GmbH
00271B (base 16) Alec Sicherheitssysteme GmbH
Friedrich-Hoelscher-Strasse 367
Dortmund 44328
DE

00-27-18 (hex) Suzhou NEW SEAUNION Video Technology Co.,Ltd
002718 (base 16) Suzhou NEW SEAUNION Video Technology Co.,Ltd
383 Jingmao Road, Industry Park
Suzhou Jiangsu
215021
CN

00-27-0B (hex) Adura Technologies
00270B (base 16) Adura Technologies
28 Second Street
San Francisco CA 94105
US

00-27-0D (hex) Cisco Systems, Inc
00270D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-27-07 (hex) Lift Complex DS, JSC
002707 (base 16) Lift Complex DS, JSC
mikrorayon Gorsky, 6
Novosibirsk 630073
RU

00-26-FE (hex) MKD Technology Inc.
0026FE (base 16) MKD Technology Inc.
R.B8, No.1 Lising 1st Rd.,
Hsinchu 30078
TW

00-26-E3 (hex) DTI
0026E3 (base 16) DTI
Rue de la gare, 35
NANINNE NAMUR 5100
BE

00-26-E5 (hex) AEG Power Solutions
0026E5 (base 16) AEG Power Solutions

Emil Siepmannstraße 32
Warstein NRW 59581
DE

00-26-70 (hex) Cinch Connectors
002670 (base 16) Cinch Connectors
1700 Finley Road
Lombard IL 60148
US

00-26-71 (hex) AUTOVISION Co., Ltd
002671 (base 16) AUTOVISION
Co., Ltd
Shinsegae YBS Bldg. 102
Seongdong-gu Seoul 133-847
KR

00-26-65 (hex) ProtectedLogic Corporation
002665 (base 16) ProtectedLogic Corporation
PO Box 67707
Albuquerque NM 87193
US

00-26-BC (hex) General Jack Technology Ltd.
0026BC (base 16) General Jack Technology Ltd.
The Area of Administration of Lian Bei,
Dong Guan Guang Dong 523580
CN

00-26-AE (hex) Wireless Measurement Ltd
0026AE (base 16) Wireless Measurement Ltd
The Crescent
EMSWORTH PO10 8JS
GB

00-26-B1 (hex) Navis Auto Motive Systems, Inc.
0026B1 (base 16) Navis Auto Motive Systems, Inc.
Busan, Centumjungang-ro 78, Centum Greentower 8th floor
BUSAN 612-822
KR

00-26-AA (hex) Kenmec Mechanical Engineering Co., Ltd.
0026AA (base 16) Kenmec Mechanical Engineering Co., Ltd.
3F, No. 97, Sec.2 Nan-Kang Rd.,
Taipei 11578
TW

00-26-60 (hex) Logiways

002660 (base 16) Logiways
24/26
rue Louis ARMAND
PARIS 75015
FR

00-26-D7 (hex) KM Electornic Technology Co., Ltd.
0026D7 (base 16) KM Electornic Technology Co., Ltd.
5F, NO.3 Building, NO.118 Rd. Baoan District, Shenzhen China
Shenzhen Guangdong 518101
CN

00-26-D0 (hex) Semihalf
0026D0 (base 16) Semihalf
ul. Wadowicka 8A
Krakow ... 30-415
PL

00-26-D2 (hex) Pcube Systems, Inc.
0026D2 (base 16) Pcube Systems, Inc.
1857 O'Toole Lane
San Jose CA 95131
US

00-26-CD (hex) PurpleComm, Inc.
0026CD (base 16) PurpleComm, Inc.
2620 Augustine Dr., Ste. 100
Santa Clara CA 95054
US

00-26-9A (hex) Carina System Co., Ltd.
00269A (base 16) Carina System Co., Ltd.
2-2-11 Kotonoo-cho
Kobe Hyogo 651-0094
JP

00-26-95 (hex) ZT Group Int'l Inc
002695 (base 16) ZT Group Int'l Inc
350 Meadowlands Parkway
Secaucus NJ 07094
US

00-26-93 (hex) QVidium Technologies, Inc.
002693 (base 16) QVidium
Technologies, Inc.
12989 Chaparral Ridge Rd
San Diego CA 92130
US

00-26-8E (hex) Alta Solutions, Inc.
00268E (base 16) Alta Solutions, Inc.
11305 Rancho Bernardo Road
San Diego CA 92127
US

00-26-A0 (hex) moblic
0026A0 (base 16) moblic
7F, 271-1, Seohyeon-dong, Bundang-gu
Seongnam-si Kyeonggi-do 463-824
KR

00-26-96 (hex) NOOLIX Co., Ltd
002696 (base 16) NOOLIX Co., Ltd
DAECHANG B/D 3F, 8-2 SUNAE-DONG
SUNGNAM-SI KYUNGGI-DO 463-825
KR

00-26-78 (hex) Logic Instrument SA
002678 (base 16) Logic Instrument SA
43, Avenue de l'Europe
Domont 95330
FR

00-26-77 (hex) DEIF A/S
002677 (base 16) DEIF A/S
Frisenborgvej 33
Skive 7800
DK

00-26-10 (hex) Apacewave Technologies
002610 (base 16) Apacewave Technologies
48389 Fremont Blvd, STE#100
Fremont CA 94538
US

00-26-0E (hex) Ablaze Systems, LLC
00260E (base 16) Ablaze Systems, LLC
523
West Valley Road
Wayne Pennsylvania 19087
US

00-26-0D (hex) Mercury Systems, Inc.
00260D (base 16) Mercury Systems, Inc.
26 Hampshire Dr
Hudson NH 03051

US

00-26-0A (hex) Cisco Systems, Inc
00260A (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-26-03 (hex) Shenzhen Wistar Technology Co., Ltd
002603 (base 16) Shenzhen Wistar Technology Co., Ltd
Rm919, Science &Technology Service Center
Shenzhen Guangdong 518000
CN

00-26-2C (hex) IKT Advanced Technologies s.r.o.
00262C (base 16) IKT Advanced Technologies s.r.o.
Piseckeho 334/19
Praha 5 15000
CZ

00-26-2E (hex) Chengdu Jiuzhou Electronic Technology Inc
00262E (base 16) Chengdu Jiuzhou Electronic Technology Inc
A2 Building,Tianfu Software Park
Chengdu Sichuan 610041
CN

00-26-29 (hex) Juphoon System Software Inc.
002629 (base 16) Juphoon System Software Inc.
Room 910,Building
2
Ningbo Zhejiang 315041
CN

00-26-48 (hex) Emitech Corp.
002648 (base 16) Emitech Corp.
No. 156-5A, ChengGong 1st St.,
Jhubei City Hsinchu County 302
TW

00-26-45 (hex) Circontrol S.A.
002645 (base 16) Circontrol S.A.
Lepant 43
Terrassa Barcelona 08223
ES

00-26-3E (hex) Trapeze Networks
00263E (base 16) Trapeze Networks
5753 West Las Positas Blvd.

Pleasanton California 94588
US

00-25-E2 (hex) Everspring Industry Co., Ltd.
0025E2 (base 16) Everspring Industry Co., Ltd.
7F., No. 609, Sec 1, Wanshou Rd.,
Gueishan Township Taoyuan County 333
TW

00-25-E1 (hex) SHANGHAI SEEYOO ELECTRONIC & TECHNOLOGY CO., LTD
0025E1 (base 16) SHANGHAI SEEYOO ELECTRONIC & TECHNOLOGY CO., LTD
RM701,XIN'AN BUILDING,99 TIANZHOU RD,XUHUI DISTRICT,SHANGHAI
SHANGHAI 200233
CN

00-25-DA (hex) Secura Key
0025DA (base 16) Secura Key
20301 Nordhoff St.
Chatsworth CA 91311
US

00-26-3C
(hex) Bachmann Technology GmbH & Co. KG
00263C (base 16) Bachmann Technology GmbH & Co. KG
Ernsthaldenstrasse 33
Stuttgart BW 70565
DE

00-26-3D (hex) MIA Corporation
00263D (base 16) MIA Corporation
1-3-15 Yoshino-cho, Minami-ku
Yokohama Kanagawa 232-0014
JP

00-26-32 (hex) Instrumentation Technologies d.d.
002632 (base 16) Instrumentation Technologies d.d.
Velika pot 22
Solkan Nova Gorica 5250
SI

00-25-DB (hex) ATI Electronics(Shenzhen) Co., LTD
0025DB (base 16) ATI Electronics(Shenzhen) Co., LTD
2F,1st Buliding,Tangyanshan Industrial Park,
Shenzhen Guangdong 518108
CN

00-25-D5 (hex) Robonica (Pty) Ltd
0025D5 (base 16) Robonica (Pty) Ltd

41 Park Avenue North
Centurion Gauteng 0046
ZA

00-25-CC (hex) Mobile Communications Korea Incorporated
0025CC (base 16) Mobile Communications Korea Incorporated
1011-1012, Suwon High Venture Valley,
Suwon-si,
Gyeonggi-do, 441-360
KR

00-25-C8 (hex) S-Access GmbH
0025C8 (base 16) S-Access GmbH
Oberhausenstrasse 47
Wettswil a/A Zuerich 8907
CH

00-25-C0 (hex) ZillionTV Corporation
0025C0 (base 16) ZillionTV Corporation
1170 Kifer Road
Sunnyvale CA 94086
US

00-26-25 (hex) MediaSputnik
002625 (base 16) MediaSputnik
Yaroslavskoe shosse, 19,
Moscow 129337
RU

00-26-26 (hex) Geophysical Survey Systems, Inc.
002626 (base 16) Geophysical Survey Systems, Inc.
12 Industrial Way
Salem NH 03079
US

00-26-1B (hex) LAUREL BANK MACHINES CO., LTD.
00261B (base 16) LAUREL BANK MACHINES CO., LTD.
12-6
Kita-Ku Tokyo 114-0013
JP

00-26-14 (hex) KTNF
002614 (base 16) KTNF
204,Daeryungtechnotown1,327,Gasan-Dong,
Seoul 153-771
KR

00-25-F9 (hex) GMK electronic design GmbH

0025F9 (base 16) GMK electronic design GmbH
Daimlerstraße 8
Wernberg-Koeblitz Bavaria
D-92533
DE

00-25-F7 (hex) Ansaldo STS USA
0025F7 (base 16) Ansaldo STS USA
1000 Technology Drive
Pittsburgh PA 15219
US

00-25-A6 (hex) Central Network Solution Co., Ltd.
0025A6 (base 16) Central Network Solution Co., Ltd.
584-1, Pajang-Dong, JangAn-Gu
Suwon-Si, Kyunggi-Do 440-854
KR

00-25-AA (hex) Beijing Soul Technology Co.,Ltd.
0025AA (base 16) Beijing Soul Technology Co.,Ltd.
Room 606,Xinzheng Office Building
BEIJING 100089
CN

00-25-A3 (hex) Trimax Wireless, Inc.
0025A3 (base 16) Trimax Wireless, Inc.
2675 S Horseshoe Dr
Naples FL 34104
US

00-25-9C (hex) Cisco-Linksys, LLC
00259C (base 16) Cisco-Linksys, LLC
121 Theory Drive
Irvine California 92612
US

00-25-A2 (hex) Alta Definicion LINCEO S.L.
0025A2 (base 16) Alta Definicion LINCEO S.L.
Maria de Luna 11, nave 4
Zaragoza Es-50018
ES

00-25-BD (hex) Italdata Ingegneria dell'Idea S.p.A.
0025BD
(base 16) Italdata Ingegneria dell'Idea S.p.A.
viale Eroi di Cefalonia 123
Roma 00128
IT

00-25-B7 (hex) Costar electronics, inc.,
0025B7 (base 16) Costar electronics, inc.,
3fl,-1 no 13,lane 120,nei-hu road sec.1,
Taipei 114
TW

00-25-7D (hex) PointRed Telecom Private Ltd.
00257D (base 16) PointRed Telecom Private Ltd.
15F - 5., No. 1071, Zhongzheng Road,
Taoyuan City 330 330
TW

00-25-4E (hex) Vertex Wireless Co., Ltd.
00254E (base 16) Vertex Wireless Co., Ltd.
5F, Seohyeon Plaza, 254-5, Seohyeon-dong, Bundang-gu
Seongnam-si Gyeonggi-do 463-824
KR

00-25-88 (hex) Genie Industries, Inc.
002588 (base 16) Genie Industries, Inc.
18620 NE 67th Ct
Redmond WA 98052
US

00-25-80 (hex) Equipson S.A.
002580 (base 16) Equipson S.A.
Poligono Ind. L´Alteró
Silla Valencia 46460
ES

00-25-6D (hex) Broadband Forum
00256D (base 16) Broadband Forum
48377
Fremont Boulevard
Fremont CA 94538
US

00-25-6C (hex) Azimut Production Association JSC
00256C (base 16) Azimut Production Association JSC
2-B Ataeva Street
Makhachkala Dagestan 367005
RU

00-25-63 (hex) Luxtera Inc
002563 (base 16) Luxtera Inc
2320. Camino Vida Roble
Carlsbad CA 92011

US

00-25-60 (hex) Ibridge Networks & Communications Ltd.
002560 (base 16) Ibridge Networks & Communications Ltd.
28,Bedford Road East Ham
London E6 2NN
GB

00-25-93 (hex) DatNet Informatikai Kft.
002593 (base 16) DatNet Informatikai Kft.
Hétvezér u. 5.
Szigetszentmiklós Pest megye 2310
HU

00-25-8E (hex) The Weather Channel
00258E (base 16) The Weather Channel
Mail Stop 500
Atlanta GA 30339
US

00-25-0D (hex) GZT Telkom-Telmor sp. z o.o.
00250D (base 16) GZT Telkom-Telmor sp. z o.o.
Mickiewicza 5/7
Gdansk pomorskie 80-425
PL

00-25-0E (hex) gt german telematics
gmbh
00250E (base 16) gt german telematics gmbh
Rankestrasse 26
Berlin D-10789
DE

00-25-08 (hex) Maquet Cardiopulmonary AG
002508 (base 16) Maquet Cardiopulmonary AG
Hechinger Strasse 38
Hirrlingen 72145
DE

00-24-FB (hex) Private
0024FB (base 16) Private

00-24-FA (hex) Hilger u. Kern GMBH
0024FA (base 16) Hilger u. Kern GMBH
Kaefertaler Strasse 253-255
Mannheim Baden-Württemberg 68167
DE

00-24-F6 (hex) MIYOSHI ELECTRONICS CORPORATION
0024F6 (base 16) MIYOSHI ELECTRONICS CORPORATION
3-13-21 KUSHIRO
KAWANISHI-CITY HYOGO-PREF. 666-0024
JP

00-24-F0 (hex) Seanodes
0024F0 (base 16) Seanodes
Batiment Platon
Colomiers 31770
FR

00-25-31 (hex) Cloud Engines, Inc.
002531 (base 16) Cloud Engines, Inc.
857 Montgomery Street
San Francisco CA 94133
US

00-25-2D (hex) Kiryung Electronics
00252D (base 16) Kiryung Electronics
Kiryung Bldg. 686-70,
Sindaebang-dong
Seoul 156-010
KR

00-25-2B (hex) Stirling Energy Systems
00252B (base 16) Stirling Energy Systems
Sandia National Labs - NSTTF
Albuquerque NM 87185-1127
US

00-25-24 (hex) Lightcomm Technology Co., Ltd
002524 (base 16) Lightcomm Technology Co., Ltd
9/F.,Hi-Tech Venture Park Tower A,
ShenZhen GuangDong 518040
CN

00-25-18 (hex) Power PLUS Communications AG
002518 (base 16) Power PLUS Communications AG
Am Exerzierplatz 2
Mannheim Baden Wuerttemberg 68167
DE

00-25-15 (hex) SFR
002515 (base 16) SFR
42 Quai du point du jour
Boulogne billancourt . 92659
FR

00-25-22 (hex) ASRock Incorporation
002522 (base 16) ASRock Incorporation
2F., No. 37, Sec. 2, Jhongyang S. Rd., Beitou District,
Taipei 112
TW

00-25-1B (hex) Philips CareServant
00251B (base 16) Philips CareServant
High Tech Campus 27
Eindhoven Noord-Brabant 5656 AE
NL

00-25-36
(hex) Oki Electric Industry Co., Ltd.
002536 (base 16) Oki Electric Industry Co., Ltd.
1-16-8 Chuou
Warabi-shi Saitama 335-8510
JP

00-25-41 (hex) Maquet Critical Care AB
002541 (base 16) Maquet Critical Care AB
Röntgenvägen 2
Solna SE-171 95
SE

00-24-FC (hex) QuoPin Co., Ltd.
0024FC (base 16) QuoPin Co., Ltd.
#109, R&D Center for Advanced Technology 68 Yatap-dong Bundang-gu
Seongnam Kyungki-do 463-816
KR

00-25-46 (hex) Cisco Systems, Inc
002546 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-25-45 (hex) Cisco Systems, Inc
002545 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-25-42 (hex) Pittasoft
002542 (base 16) Pittasoft
#913 Daeryung Techno Town 8th 481-11ga
Geumcheon-gu Seoul 153-775

KR

00-24-C7 (hex) Mobilarm Ltd
0024C7 (base 16) Mobilarm Ltd
768 Canning Highway
Western
Australia 6153
AU

00-24-B8 (hex) free alliance sdn bhd
0024B8 (base 16) free alliance sdn bhd
B-3-2 Plaza Damas
Kuala Lumpur WP 50480
MY

00-24-D0 (hex) Shenzhen SOGOOD Industry CO.,LTD.
0024D0 (base 16) Shenzhen SOGOOD Industry CO.,LTD.
SOGOOD Science Park,Aviation Road,XiXiang Town,Bao'an District,
Shenzhen Guangzhou 518102
CN

00-24-CC (hex) Fascinations Toys and Gifts, Inc.
0024CC (base 16) Fascinations Toys and Gifts, Inc.
19224 Des Moines Way S
Seattle Washington 98148
US

00-24-CB (hex) Autonet Mobile
0024CB (base 16) Autonet Mobile
2235 Mercury Way Ste. 145
Santa Rosa CA 95407
US

00-24-D1 (hex) Thomson Inc.
0024D1 (base 16) Thomson Inc.
101 West 103rd Street
Indianapolis IN 46290
US

00-24-C9 (hex) Broadband Solutions Group
0024C9 (base 16) Broadband Solutions Group
1101 Marina Village Parkway
Alameda CA 94501
US

00-24-CA (hex) Tobii Technology
AB
0024CA (base 16) Tobii Technology AB

Karlsrovägen 2D
Danderyd 18253
SE

00-24-A9 (hex) Ag Leader Technology
0024A9 (base 16) Ag Leader Technology
2202 S Riverside Dr.
Ames IA 50010
US

00-24-A6 (hex) TELESTAR DIGITAL GmbH
0024A6 (base 16) TELESTAR DIGITAL GmbH
Vulkanhöhe / B410
Dreis-Brück 54552
DE

00-24-A3 (hex) Sonim Technologies Inc
0024A3 (base 16) Sonim Technologies Inc
1875 S.Grant Street
Sanmateo CA 94402
US

00-24-B3 (hex) Graf-Syteco GmbH & Co. KG
0024B3 (base 16) Graf-Syteco GmbH & Co. KG
Kaiserstraße 18
Tuningen Baden-Württemberg 78609
DE

00-24-AA (hex) Dycor Technologies Ltd.
0024AA (base 16) Dycor Technologies Ltd.
1851 94 Street
Edmonton Alberta T6N 1E6
CA

00-24-72 (hex) ReDriven Power Inc.
002472 (base 16) ReDriven Power Inc.
24A Bath Rd.
Iroquois Ontario K0E 1K0
CA

00-24-71 (hex) Fusion MultiSystems dba
Fusion-io
002471 (base 16) Fusion MultiSystems dba Fusion-io
6350 S. 3000 E., 6th floor
Salt lake City UT 84121
US

00-24-74 (hex) Autronica Fire And Securirty

002474 (base 16) Autronica Fire And Securirty
Haakon VII's g.4
Trondheim N-7483
NO

00-24-9B (hex) Action Star Enterprise Co., Ltd.
00249B (base 16) Action Star Enterprise Co., Ltd.
10F, No.159, Sec.2, Datong Rd.
Xizhi Dist. New Taipei City 221
TW

00-24-63 (hex) Phybridge Inc
002463 (base 16) Phybridge Inc
3495 Laird Rd
Mississauga Ontario L5L5S5
CA

00-24-97 (hex) Cisco Systems, Inc
002497 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-24-DF (hex) Digitalbox Europe GmbH
0024DF (base 16) Digitalbox Europe GmbH
Sandstraße 65
Ratingen 40878
DE

00-24-25 (hex) Shenzhenshi chuangzhicheng Technology Co.,Ltd
002425 (base 16) Shenzhenshi chuangzhicheng Technology Co.,Ltd
5th
Floor,Block2,25th Building,Industrial Zone West Keyuan Sci-tech Garden Nanshan Districh,Shenzhen
Shenzhen Guangdong 518057
CN

00-24-27 (hex) SSI COMPUTER CORP
002427 (base 16) SSI COMPUTER CORP
4F, NO4, LANE 235, BAO CHIAO ROAD
HSIN TIEN TAIPEI 231
TW

00-24-1C (hex) FuGang Electronic (DG) Co.,Ltd
00241C (base 16) FuGang Electronic (DG) Co.,Ltd
Industry Street, Dong-Keng
Dong Guan City 523448
CN

00-24-19 (hex) Private
002419 (base 16) Private

00-23-E7 (hex) Hinke A/S
0023E7 (base 16) Hinke A/S
Tingbjergvej 2
Bjaeverskov DK-4632
DK

00-23-E6 (hex) Innovation Farm, Inc.
0023E6 (base 16) Innovation Farm, Inc.
47-8, Hasunuma-cho
Itabashi-ku Tokyo 174-8580
JP

00-23-E2 (hex) SEA Signalisation
0023E2 (base 16) SEA Signalisation
20-22 Rue Pierre Mendès France
Vaulx en Velin CEDEX 69515
FR

00-24-15 (hex) Magnetic Autocontrol GmbH
002415 (base
16) Magnetic Autocontrol GmbH
Grienmatt 20
Schopfheim D-79650
DE

00-24-11 (hex) PharmaSmart LLC
002411 (base 16) PharmaSmart LLC
3495 Winton Place
Rochester NY 14623
US

00-24-0F (hex) Ishii Tool & Engineering Corporation
00240F (base 16) Ishii Tool & Engineering Corporation
2-5-60 Higashi-Omichi
Oita 870-0823
JP

00-24-3F (hex) Storwize, Inc.
00243F (base 16) Storwize, Inc.
11 Alatlef St.
Yehud 56216
IL

00-24-40 (hex) Halo Monitoring, Inc.
002440 (base 16) Halo Monitoring, Inc.

515 Sparkman Dr.
Huntsville AL 35816
US

00-24-46 (hex) MMB Research Inc.
002446 (base 16) MMB Research Inc.
35 Prince Arthur Ave.
Toronto Ontario M5R 1B2
CA

00-24-45 (hex) Adtran Inc
002445 (base 16) Adtran Inc
901 Explorer Blvd.
Huntsville AL 35806-2807
US

00-23-FA (hex) RG Nets, Inc.
0023FA (base 16) RG Nets, Inc.
316 California Ave.
Reno
NV 89501
US

00-23-F2 (hex) TVLogic
0023F2 (base 16) TVLogic
suite 914 ACE Techno Tower-9th
Geumcheon-gu SEOUL 153-782
KR

00-23-E0 (hex) INO Therapeutics LLC
0023E0 (base 16) INO Therapeutics LLC
2902 Dairy Drive
Madison WI 53718
US

00-23-D5 (hex) WAREMA Renkhoff SE
0023D5 (base 16) WAREMA Renkhoff SE
Dillberg 33
Marktheidenfeld Bavaria 97828
DE

00-24-0A (hex) US Beverage Net
00240A (base 16) US Beverage Net
1001 W. Fayette Street
Syracuse NY 13204
US

00-24-07 (hex) TELEM SAS

002407 (base 16) TELEM SAS
16, RUE DE L'ETANG
GIERES RHONE ALPES 38610
FR

00-23-C4 (hex) Lux Lumen
0023C4 (base 16) Lux Lumen
Kernenergiestraat 53A
Wilrijk Antwerp 2610
BE

00-23-C5 (hex) Radiation Safety and Control Services Inc
0023C5 (base 16) Radiation Safety and Control Services Inc
91 Portsmouth Ave
Stratham New Hampshire 03885
US

00-23-C6 (hex) SMC
Corporation
0023C6 (base 16) SMC Corporation
4-2-2, Kinunodai
Tsukuba Mirai-shi Ibaraki-ken 300-2493
JP

00-23-B9 (hex) Airbus Defence and Space Deutschland GmbH
0023B9 (base 16) Airbus Defence and Space Deutschland GmbH
Willy-Messerschmitt-Strasse 1,
Taufkirchen 82024
DE

00-23-BD (hex) Digital Ally, Inc.
0023BD (base 16) Digital Ally, Inc.
1218 Valley Ridge Drive
Grain Valley MO 64029
US

00-23-90 (hex) Algolware Corporation
002390 (base 16) Algolware Corporation
13F-5, No. 77, Sec. 1, Sintai 5th Rd.,
Taipei County Taiwan 221
TW

00-23-88 (hex) V.T. Telematica S.p.a.
002388 (base 16) V.T. Telematica S.p.a.
Via Gorky, 21
San Giuliano Milanese Milano 20098
IT

00-23-86 (hex) IMI Hydronic Engineering international SA
002386 (base 16) IMI Hydronic Engineering international SA
Route de Crassier 19
Eysins 1262
CH

00-23-83 (hex) InMage Systems Inc
002383
(base 16) InMage Systems Inc
3255-1 Scott Blvd, #104
Santa Clara CA 95054
US

00-23-81 (hex) Lengda Technology(Xiamen) Co.,Ltd.
002381 (base 16) Lengda Technology(Xiamen) Co.,Ltd.
5/F, 47 Haijing South 2nd Road,Xiamen Export Processing Zone, Haicang District,
Xiamen Fujian 361026
CN

00-23-C9 (hex) Sichuan Tianyi Information Science & Technology Stock CO.,LTD
0023C9 (base 16) Sichuan Tianyi Information Science & Technology Stock CO.,LTD
No.1,Hot Spring Highway,Dayi County
Chengdu Sichuan 611330
US

00-23-CE (hex) KITA DENSHI CORPORATION
0023CE (base 16) KITA DENSHI CORPORATION
12F TOKYO-NISHIIKEBUKURO Bilg.,
Toshima-ku, Tokyo 171-0021
JP

00-23-CF (hex) CUMMINS-ALLISON CORP.
0023CF (base 16) CUMMINS-ALLISON CORP.
891 FEEHANVILLE DRIVE
MT. PROSPECT IL 60056
US

00-23-C2 (hex) SAMSUNG Electronics. Co. LTD
0023C2 (base 16) SAMSUNG Electronics. Co. LTD
19th Fl., Korea
Life Bldg. 1338-12
Seoul 137-860
KR

00-23-BF (hex) Mainpine, Inc.
0023BF (base 16) Mainpine, Inc.
PO Box 241
Wilsonville Oregon 97070-0241

US

00-23-B2 (hex) Intelligent Mechatronic Systems Inc
0023B2 (base 16) Intelligent Mechatronic Systems Inc
161 Roger Street
Waterloo Ontario N2J 1B1
CA

00-23-B5 (hex) ORTANA LTD
0023B5 (base 16) ORTANA LTD
OSTIM KOCASINAN SANAYI SITESI
ANKARA 06370
TR

00-23-5D (hex) Cisco Systems, Inc
00235D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-23-5C (hex) Aprius, Inc.
00235C (base 16) Aprius, Inc.
440 N. Wolfe Rd
Sunnyvale CA 94085
US

00-23-52 (hex) DATASENSOR S.p.A.
002352 (base 16) DATASENSOR S.p.A.
Via Lavino, 265
Monte San Pietro (BO) 40050
IT

00-23-7B (hex) WHDI LLC
00237B (base 16) WHDI LLC
2350 Mission College Blvd.
Santa Clara CA 95054
US

00-23-24
(hex) G-PRO COMPUTER
002324 (base 16) G-PRO COMPUTER
first arrange C, YingHu industrial estate
DongGuan City GuangDong Province 523648
CN

00-23-6A (hex) SmartRG Inc
00236A (base 16) SmartRG Inc
501 SE Columbia Shores Blvd

Vancouver WA 98661
US

00-23-70 (hex) Snell
002370 (base 16) Snell
Hartman House
Reading Berks RG6 4PB
GB

00-23-A9 (hex) Beijing Detianquan Electromechanical Equipment Co., Ltd
0023A9 (base 16) Beijing Detianquan Electromechanical Equipment Co., Ltd
No. 2 Chapeng Road, Haidian District,
Beijing 100091
CN

00-23-A7 (hex) Redpine Signals, Inc.
0023A7 (base 16) Redpine Signals, Inc.
Plot 87, Sagar Society
Hyderabad AP 500034
IN

00-23-9B (hex) Elster Solutions, LLC
00239B (base 16) Elster Solutions, LLC
208 South Rogers Lane
Raleigh North Carolina 27610
US

00-23-09 (hex) Janam Technologies LLC
002309 (base 16) Janam Technologies
LLC
100 Crossways Park West
Woodbury NY 11797
US

00-23-04 (hex) Cisco Systems, Inc
002304 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-22-F9 (hex) Pollin Electronic GmbH
0022F9 (base 16) Pollin Electronic GmbH
Max-Pollin-Str. 1
Pfoerring 85104
DE

00-22-EE (hex) Algo Communication Products Ltd
0022EE (base 16) Algo Communication Products Ltd

4500 Beedie Street
Burnaby BC V5J 5L2
CA

00-22-EA (hex) Rustelcom Inc.
0022EA (base 16) Rustelcom Inc.
Garagniy proezd, 1
St.-Petersburg 192288
RU

00-22-F0 (hex) 3 Greens Aviation Limited
0022F0 (base 16) 3 Greens Aviation Limited
10 Hedingham Close
Macclesfield SK10 3LZ
GB

00-22-EC (hex) IDEALBT TECHNOLOGY CORPORATION
0022EC (base 16) IDEALBT TECHNOLOGY CORPORATION
6F., NO.8, LANE 345, YANGGUANG ST., NEIHU DISTRICT
Taipei 114
TW

00-23-31 (hex) Nintendo Co.,
Ltd.
002331 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

00-23-35 (hex) Linkflex Co.,Ltd
002335 (base 16) Linkflex Co.,Ltd
5F. Min Young Bldg. 175-2
Seoul 135-010
KR

00-23-2F (hex) Advanced Card Systems Ltd.
00232F (base 16) Advanced Card Systems Ltd.
Unit 2010-13, Chevalier Commercial Centre,
Kowloon Bay, SAR
HK

00-22-C5 (hex) INFORSON Co,Ltd.
0022C5 (base 16) INFORSON Co,Ltd.
Room 704,Tower B1, ChangYuanTianDi Plaza
BeiJing City 100080
CN

00-22-BF (hex) SieAmp Group of Companies

0022BF (base 16) SieAmp Group of Companies
2 Ang Mo Kio Street 64
Singapore 569084
US

00-22-BE (hex) Cisco Systems, Inc
0022BE (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-22-B9 (hex) Analogix Seminconductor, Inc
0022B9 (base 16) Analogix Seminconductor, Inc
3211 Scott Blvd., Suite 100
Santa
Clara CA 95054
US

00-23-11 (hex) Gloscom Co., Ltd.
002311 (base 16) Gloscom Co., Ltd.
#507 Changhyun Bldg.
Anyang City Kyunggo-do 431-080
KR

00-23-53 (hex) F E T Elettronica snc
002353 (base 16) F E T Elettronica snc
Via Alessandro Manzoni 14/a
Poggibonsi Siena 53036
IT

00-23-42 (hex) Coffee Equipment Company
002342 (base 16) Coffee Equipment Company
4216 6th Ave NW
Seattle WA 98107
US

00-23-37 (hex) Global Star Solutions ULC
002337 (base 16) Global Star Solutions ULC
4600 Jacombs Road
Richmond BC V6V 3B1
CA

00-22-DD (hex) Protecta Electronics Ltd
0022DD (base 16) Protecta Electronics Ltd
Kesmark str 7/A
Budapest Hungary 1158
HU

00-22-DB (hex) Translogic Corporation
0022DB (base 16) Translogic Corporation
10825 E. 47th Avenue
Denver Colorado 80239
US

00-23-25 (hex) IOLAN Holding
002325 (base 16) IOLAN Holding
Mon Plaisir
26
Etten Leur 4879AN
NL

00-23-21 (hex) Avitech International Corp
002321 (base 16) Avitech International Corp
15333 NE 90th Street
Redmond WA 98052
US

00-23-19 (hex) Sielox LLC
002319 (base 16) Sielox LLC
170 East Ninth Ave.
Runnemede NJ 08078
US

00-22-DA (hex) ANATEK, LLC
0022DA (base 16) ANATEK, LLC
3219 East Camelback Road
Phoenix AZ 85018
US

00-22-6A (hex) Honeywell
00226A (base 16) Honeywell
8840 Evergreen Blvd.
Minneapolis MN 55433-6040
US

00-22-62 (hex) BEP Marine
002262 (base 16) BEP Marine
13 Tarndale Grove Albany
Auckland 0632
NZ

00-22-63 (hex) Koos Technical Services, Inc.
002263 (base 16) Koos Technical Services, Inc.
1025 Greenwood Blvd.
Lake Mary FL 32746
US

00-22-6C (hex) LinkSprite Technologies, Inc.
00226C (base 16) LinkSprite Technologies, Inc.
1410 Cannon Mountain Dr
Longmont CO 80503
US

00-22-5C
(hex) Multimedia & Communication Technology
00225C (base 16) Multimedia & Communication Technology
Digital Empire D-801 #980-3
Suwon-City KyeongGi-Do 443-813
KR

00-22-90 (hex) Cisco Systems, Inc
002290 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-22-8A (hex) Teratronik elektronische systeme gmbh
00228A (base 16) Teratronik elektronische systeme gmbh
Karl-Ulrich-Strasse 1
Gross-Umstadt D-64823
DE

00-22-8E (hex) TV-NUMERIC
00228E (base 16) TV-NUMERIC
24-26 rue Louis Armand
Paris 75015
FR

00-22-84 (hex) DESAY A&V SCIENCE AND TECHNOLOGY CO.,LTD
002284 (base 16) DESAY A&V SCIENCE AND TECHNOLOGY CO.,LTD
DESAY 3rd Zone,Chenjiang,
Huizhou Guangdong 516229
CN

00-22-86 (hex) ASTRON
002286 (base 16) ASTRON
Oudehoogeveensedijk 4
Dwingeloo Drenthe 7991PD
NL

00-22-9B (hex) AverLogic Technologies, Inc.
00229B (base 16) AverLogic
Technologies, Inc.
7F-2, No.2, Lane 258, Rui Guang Rd., Nei-Hu Dist.,

Taipei Taiwan 114
TW

00-22-9C (hex) Verismo Networks Inc
00229C (base 16) Verismo Networks Inc
295 Bernando Avenue
Mountain View CA 94043
US

00-22-9A (hex) Lastar, Inc.
00229A (base 16) Lastar, Inc.
3555 Kettering BLVD.
Moraine Ohio 45439
US

00-22-54 (hex) Bigelow Aerospace
002254 (base 16) Bigelow Aerospace
1899 W. Brooks Ave
North Las Vegas NV 89032
US

00-22-57 (hex) 3COM EUROPE LTD
002257 (base 16) 3COM EUROPE LTD
Peoplebuilding 2
Hemel Hempstead HERTS. HP2 4NW
GB

00-22-B8 (hex) Norcott
0022B8 (base 16) Norcott
Brookfield House, Grimsditch Lane off Tarporley Road
Cheshire WA4 4EA
GB

00-22-B7 (hex) GSS Grundig SAT-Systems GmbH
0022B7 (base 16) GSS Grundig SAT-Systems GmbH
Beutherner Strasse 43
Nuernberg Bayern 90471
DE

00-22-B3 (hex) Sei S.p.A.
0022B3
(base 16) Sei S.p.A.
Via Ruffilli, 1
Curno Bergamo 24035
IT

00-22-AB (hex) Shenzhen Turbosight Technology Ltd
0022AB (base 16) Shenzhen Turbosight Technology Ltd

Unit C-8A,Shennan Garden Bldg,Hightech Park,Nanshan District
Shenzhen Guangdong 518057
CN

00-22-46 (hex) Evoc Intelligent Technology Co.,Ltd.
002246 (base 16) Evoc Intelligent Technology Co.,Ltd.
No.31 Gaoxin Centeral Avenue 4th Road,Nanshan District Shenzhen City
Shenzhen Guangdong 518057
CN

00-22-48 (hex) Microsoft Corporation
002248 (base 16) Microsoft Corporation
One Microsoft Way
Redmond Washington 98052-6399
US

00-22-82 (hex) 8086 Consultancy
002282 (base 16) 8086 Consultancy
17 Lowfield Lane
Newark Notts NG24 3HJ
GB

00-22-76 (hex) Triple EYE B.V.
002276 (base 16) Triple EYE B.V.
Vaassenseweg 71
Emst 8166 AT
NL

00-22-74 (hex) FamilyPhone AB
002274 (base 16) FamilyPhone AB
Anckargripsgatan
3
Malmö 21119
SE

00-22-30 (hex) FutureLogic Inc.
002230 (base 16) FutureLogic Inc.
425 E. Colorado St., Ste. 100
Glendale CA 91205
US

00-22-2E (hex) maintech GmbH
00222E (base 16) maintech GmbH
Seeweg 60
Höchberg Bavaria 97204
DE

00-21-BB (hex) Riken Keiki Co., Ltd.

0021BB (base 16) Riken Keiki Co., Ltd.
2-7-6 Azusawa
Itabashi-Ku Tokyo 174-8744
JP

00-21-B1 (hex) DIGITAL SOLUTIONS LTD
0021B1 (base 16) DIGITAL SOLUTIONS LTD
Tsarigradsko Shose 7km BLVD
Sofia Sofia 1784
BG

00-21-B0 (hex) Tyco Telecommunications
0021B0 (base 16) Tyco Telecommunications
1011 Pawtucket Blvd
Lowell Massachusetts 01853
US

00-22-14 (hex) RINNAI KOREA
002214 (base 16) RINNAI KOREA
560-2, Shibjong-1dong, Pupyoung-gu
Pupyoung-gu Incheon 403-847
KR

00-22-0B (hex) National Source Coding Center
00220B (base 16) National Source Coding Center
Suite 701,Power
Creative A,No.1
Beijing 100085
CN

00-22-0C (hex) Cisco Systems, Inc
00220C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-21-C6 (hex) CSJ Global, Inc.
0021C6 (base 16) CSJ Global, Inc.
9th Fl. Samwhan Bldg. Annex, 17-26 Yeouido-dong,
Seoul 150-874
KR

00-21-C3 (hex) CORNELL Communications, Inc.
0021C3 (base 16) CORNELL Communications, Inc.
7915 N. 81st Street
Milwaukee Wisconsin 53223
US

00-21-C7 (hex) Russound
0021C7 (base 16) Russound
5 Forbes Road
Newmarket NH 03857
US

00-21-C1 (hex) ABB Oy / Medium Voltage Products
0021C1 (base 16) ABB Oy / Medium Voltage Products
PO Box 699
Vaasa FI-65101
FI

00-21-C0 (hex) Mobile Appliance, Inc.
0021C0 (base 16) Mobile Appliance, Inc.
#819 Kranz Techno,
Seong nam Gyeonggi-Do 462-729
KR

00-21-EA (hex) Bystronic Laser AG
0021EA (base 16) Bystronic Laser AG
Industriestrasse
21
3362 Niederönz
CH

00-21-E1 (hex) Nortel Networks
0021E1 (base 16) Nortel Networks
2221 Lakeside Blvd
Richardson TX 75081
US

00-21-FD (hex) LACROIX TRAFFIC S.A.U
0021FD (base 16) LACROIX TRAFFIC S.A.U
Majada 4
Tres Cantos Madrid 28760
ES

00-22-00 (hex) IBM Corp
002200 (base 16) IBM Corp
2051 Mission College Blvd
Santa Clara CA 95054
US

00-22-28 (hex) Breeze Innovations Ltd.
002228 (base 16) Breeze Innovations Ltd.
Har Hotzvim, P.O. Box 45397
Jerusalem Israel 91451
IL

00-22-29 (hex) Compumedics Ltd
002229 (base 16) Compumedics Ltd
30 - 40 Flockhart Street
Abbotsford Victoria 3067
AU

00-22-16 (hex) SHIBAURA VENDING MACHINE CORPORATION
002216 (base 16) SHIBAURA VENDING MACHINE CORPORATION
Ekimae-cho13-10
Obama-shi Fukui-ken 917-0077
JP

00-21-CD (hex) LiveTV
0021CD (base 16) LiveTV
1333 Gateway Drive, Suite
1007
Melbourne Florida 32901
US

00-21-6F (hex) SymCom, Inc.
00216F (base 16) SymCom, Inc.
2880 North Plaza Drive
Rapid City SD 57702
US

00-21-66 (hex) NovAtel Inc.
002166 (base 16) NovAtel Inc.
1120 - 68 Ave NE
Calgary Alberta T2E 8S5
CA

00-21-64 (hex) Special Design Bureau for Seismic Instrumentation
002164 (base 16) Special Design Bureau for Seismic Instrumentation
129, Krainyaya Str.
Saratov Saratov region 410019
RU

00-21-60 (hex) Hidea Solutions Co. Ltd.
002160 (base 16) Hidea Solutions Co. Ltd.
4F, Do&Can house Dldg., #656-1683, Seongsu 1-ga 2-dong, Seongdong-gu
Seoul 656-1683
KR

00-21-52 (hex) General Satellite Research & Development Limited
002152 (base 16) General Satellite Research & Development Limited
Lit. E, building 2, 4 Novoladozhskaya str
Saint Petersburg 197110

RU

00-21-58 (hex) Style Flying Technology Co.
002158 (base 16) Style Flying
Technology Co.
22/F,Cyber Tower B,No.2 Zhong Guan Cun South Street,Haidian District,
Beijing 100086
CN

00-21-48 (hex) Kaco Solar Korea
002148 (base 16) Kaco Solar Korea
Chung-won-ku Sang-dea-won-dong 333-1
Songnam Kyung-kido 462-806
KR

00-21-32 (hex) Masterclock, Inc.
002132 (base 16) Masterclock, Inc.
2484 W. Clay St.
St. Charles MO 63301
US

00-21-31 (hex) Blynke Inc.
002131 (base 16) Blynke Inc.
133 Richmond St. West
Toronto Ontario M5H 2L3
CA

00-21-29 (hex) Cisco-Linksys, LLC
002129 (base 16) Cisco-Linksys, LLC
121 Theory Drive
Irvine California 92612
US

00-21-1D (hex) Dataline AB
00211D (base 16) Dataline AB
Katrinedalsgatan 53
Borås S-50451
SE

00-21-7F (hex) Intraco Technology Pte Ltd
00217F (base 16) Intraco Technology Pte Ltd
750e Chai Chee Road #05-01
Singapore 4690005
SG

00-21-7D (hex) PYXIS S.R.L.
00217D (base 16) PYXIS

S.R.L.
C/O DIP. INFORMATICA E SISTEMISTICA - UNIVERSITY OF PAVIA
PAVIA 27100
IT

00-21-41 (hex) RADLIVE
002141 (base 16) RADLIVE
4 Hanechoshet St.
Tel Aviv 69710
IL

00-21-3D (hex) Cermetek Microelectronics, Inc.
00213D (base 16) Cermetek Microelectronics, Inc.
374 Turquoise Street
Milpitas CA 95035
US

00-21-AD (hex) Nordic ID Oy
0021AD (base 16) Nordic ID Oy
Myllyojankatu 2A
SALO FIN-24100
FI

00-21-A3 (hex) Micromint
0021A3 (base 16) Micromint
111 Commerce St
Lake Mary FL 32746
US

00-21-A5 (hex) ERLPhase Power Technologies Ltd.
0021A5 (base 16) ERLPhase Power Technologies Ltd.
74 Scurfield Blvd.
Winnipeg Manitoba R3Y 1G4
CA

00-21-9D (hex) Adesys BV
00219D (base 16) Adesys BV
Molenweer 4
Wateringen Zuid Holland 2291 NR
NL

00-21-20 (hex) Sequel Technologies
002120 (base 16) Sequel Technologies
2951 Cleveland Ave N
Roseville
MN 55113
US

00-21-1A (hex) LInTech Corporation
00211A (base 16) LInTech Corporation
Krasnokazarmennaya st., 12
Moscow 111250
RU

00-21-40 (hex) EN Technologies Inc.
002140 (base 16) EN Technologies Inc.
Geumbok Bldg. 9F, Band-yi-dong 45-2, Songpa-gu
Seoul 138-828
KR

00-21-3C (hex) AliphCom
00213C (base 16) AliphCom
150 Executive Park Blvd
San Francisco CA 94134
US

00-21-95 (hex) GWD Media Limited
002195 (base 16) GWD Media Limited
10 Leeds Road
Sheffield South Yorkshire S9 3TY
GB

00-21-88 (hex) EMC Corporation
002188 (base 16) EMC Corporation
2421 Mission College Blvd
Santa Clara CA 95050
US

00-21-16 (hex) Transcon Electronic Systems, spol. s r. o.
002116 (base 16) Transcon Electronic Systems, spol. s r. o.
Kvapilova 2133
Frydek-Mistek 73802
CZ

00-21-15 (hex) PHYWE Systeme GmbH & Co. KG
002115 (base 16) PHYWE Systeme GmbH
& Co. KG
Robert-Bosch-Breite 10
Goettingen Niedersachsen 37079
DE

00-21-11 (hex) Uniphone Inc.
002111 (base 16) Uniphone Inc.
795 Main Street
Half Moon Bay CA 94019
US

00-21-14 (hex) Hylab Technology Inc.
002114 (base 16) Hylab Technology Inc.
15F-2.,No.872,Jhongjheng Rd.
Jhonghe City, Taipei 235
TW

00-1F-BF (hex) Fulhua Microelectronics Corp. Taiwan Branch
001FBF (base 16) Fulhua Microelectronics Corp. Taiwan Branch
1F, No.12, R&D Road,
Hsin-Chu, 300 886
TW

00-1F-BE (hex) Shenzhen Mopnet Industrial Co.,Ltd
001FBE (base 16) Shenzhen Mopnet Industrial Co.,Ltd
3F.No.3 Keyuan Rd.,
Shenzhen Guangdong 518057
CN

00-1F-C2 (hex) Jow Tong Technology Co Ltd
001FC2 (base 16) Jow Tong Technology Co Ltd
46 Lane 337 Chung Cheng Rd
Yung Kang City Tainan County 71066
TW

00-1F-AD (hex) Brown Innovations, Inc
001FAD (base 16) Brown Innovations, Inc
369 Congress Street
Boston
MA 02210
US

00-1F-A6 (hex) Stilo srl
001FA6 (base 16) Stilo srl
Via Besana, 4
20122 Milano
IT

00-1F-E7 (hex) Simet
001FE7 (base 16) Simet
Strada del Portone 129
Grugliasco Torino 10095
IT

00-1F-DB (hex) Network Supply Corp.,
001FDB (base 16) Network Supply Corp.,
1938 NAKADAIRA KANAE
IIDA NAGANO 395-0801

JP

00-1F-D4 (hex) 4IPNET, INC.
001FD4 (base 16) 4IPNET, INC.
38129 CAMBRIDGE COURT
FREMONT CA 94536
US

00-1F-CB (hex) NIW Solutions
001FCB (base 16) NIW Solutions
P.O. Box 62
One Tree Hill South Australia 5114
AU

00-1F-D2 (hex) COMMTECH TECHNOLOGY MACAO COMMERCIAL OFFSHORE LTD.
001FD2 (base 16) COMMTECH TECHNOLOGY MACAO COMMERCIAL OFFSHORE LTD.
31,TAI YIP STREET, 7/F KWUN TONG,
KOWLOON, HONGKONG
CN

00-1F-B5 (hex) I/O Interconnect Inc.
001FB5 (base 16) I/O Interconnect Inc.
1202 E Wakeham Ave
Santa Ana CA 92708
US

00-1F-EB
(hex) Trio Datacom Pty Ltd
001FEB (base 16) Trio Datacom Pty Ltd
41 Aster Avenue
Carrum Downs Victoria 3201
AU

00-1F-F7 (hex) Nakajima All Precision Co., Ltd.
001FF7 (base 16) Nakajima All Precision Co., Ltd.
Kami-Gomyo1480
Hanishina-Gun Nagano-Ken 389-0606
JP

00-1F-68 (hex) Martinsson Elektronik AB
001F68 (base 16) Martinsson Elektronik AB
Box 9060
Hägersten Stockholm 126 09
SE

00-1F-63 (hex) JSC Goodwin-Europa
001F63 (base 16) JSC Goodwin-Europa
20/5 Marksistskaya st.

Moscow 109147
RU

00-1F-69 (hex) Pingood Technology Co., Ltd.
001F69 (base 16) Pingood Technology Co., Ltd.
Rm1917, South Block, Cangsong Bldg., Tairan Industrial Zone, Futian District
Shenzhen Guangdong 518040
CN

00-1F-4D (hex) Segnetics LLC
001F4D (base 16) Segnetics LLC
Shkiperski protok 14
Saint-Petersburg 199106
RU

00-1F-1A (hex) Prominvest
001F1A (base
16) Prominvest
7, Bobruiskaya ulica
Saint-Petersburg North-West Federal District 195009
RU

00-1F-18 (hex) Hakusan.Mfg.Co,.Ltd
001F18 (base 16) Hakusan.Mfg.Co,.Ltd
Tomin-Kougyou-Ikebukuro BLD.5F
Tosima Ward Tokyo-Met. 171-0022
JP

00-1F-13 (hex) S.& A.S. Ltd.
001F13 (base 16) S.& A.S. Ltd.
Boutros Bldg. 1st bsmt
Beirut 2067 7808
LB

00-1F-25 (hex) MBS GmbH
001F25 (base 16) MBS GmbH
Römerstraße 15
Krefeld Nordrhein-Westfalen 47809
DE

00-1F-27 (hex) Cisco Systems, Inc
001F27 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1F-26 (hex) Cisco Systems, Inc
001F26 (base 16) Cisco Systems, Inc

80 West Tasman Drive
San Jose CA 94568
US

00-1F-97 (hex) BERTANA srl
001F97 (base 16) BERTANA srl
Viale GALILEO FERRARIS 27
BRUINO TORINO 10090
IT

00-1F-8C (hex) CCS Inc.
001F8C (base 16) CCS Inc.
Shimodachiuri-agaru
Kyoto
Kyoto 602-8011
JP

00-1F-42 (hex) Etherstack plc
001F42 (base 16) Etherstack plc
80 Abercrombie Street
Chippendale NSW 2008
AU

00-1F-81 (hex) Accel Semiconductor Corp
001F81 (base 16) Accel Semiconductor Corp
1F,Mainbldg,149 Chun Xiao Road,
Shanghai 201203
CN

00-1F-83 (hex) Teleplan Technology Services Sdn Bhd
001F83 (base 16) Teleplan Technology Services Sdn Bhd
2580, Tingkat Perusahaan 4B
Perai Penang 13600
MY

00-1F-9B (hex) POSBRO
001F9B (base 16) POSBRO
ShinyoungGtower 6F, 271-1
Seongnam-si Kyunggi-do 463-824
KR

00-1F-78 (hex) Blue Fox Porini Textile
001F78 (base 16) Blue Fox Porini Textile
1208 Pointe Centre Drive
Chattanooga TN 37421
US

00-1F-35 (hex) AIR802 LLC

001F35 (base 16) AIR802 LLC
1169 Banyon Court
Naperville IL 60540
US

00-1F-34 (hex) Lung Hwa Electronics Co., Ltd.
001F34 (base 16) Lung Hwa Electronics Co.,
Ltd.
3F, 248, Pei Sheng Rd. Sec. 3,
Taipei Hsien 222
TW

00-1F-10 (hex) TOLEDO DO BRASIL INDUSTRIA DE BALANCAS LTDA
001F10 (base 16) TOLEDO DO BRASIL INDUSTRIA DE BALANCAS LTDA
RUA MANOEL CREMONESI, 1
SAO BERNARDO DO CAMPO SP 09851-900
BR

00-1F-0F (hex) Select Engineered Systems
001F0F (base 16) Select Engineered Systems
7991 W. 26 Ave
Hialeah Florida 33016
US

00-1F-02 (hex) Pixelmetrix Corporation Pte Ltd
001F02 (base 16) Pixelmetrix Corporation Pte Ltd
31 Kaki Bukit Road 3
417818
SG

00-1E-EF (hex) Cantronic International Limited
001EEF (base 16) Cantronic International Limited
Unit 515-516, Building 15, East Wing, No 8 Science Park West Avenue, Hong Kong Science Park Phase II
Shatin New Territories 852
HK

00-1E-DE (hex) BYD COMPANY LIMITED
001EDE (base 16) BYD COMPANY LIMITED
NO.1,Baoping Road,Baolong Industrial Town,Longgang
SHEN ZHEN Guangdong 518116
CN

00-1E-DD
(hex) WASKO S.A.
001EDD (base 16) WASKO S.A.
Berbeckiego 6
Gliwice Silesia 44-100
PL

00-1E-DB (hex) Giken Trastem Co., Ltd.
001EDB (base 16) Giken Trastem Co., Ltd.
4-1 Takeda Dankawaracho Fushimiku
Kyoto 612-8414
JP

00-1E-D1 (hex) Keyprocessor B.V.
001ED1 (base 16) Keyprocessor B.V.
Paasheuvelweg 20
Amsterdam NH 1105 BJ
NL

00-1E-D0 (hex) Ingespace
001ED0 (base 16) Ingespace
6 rue de lourmede
Eurocentre 31621
FR

00-1E-CD (hex) KYLAND Technology Co. LTD
001ECD (base 16) KYLAND Technology Co. LTD
Building No.2,Shixing Avenue 30#
Shijingshan District Beijing 100044
CN

00-1E-8E (hex) Hunkeler AG
001E8E (base 16) Hunkeler AG
Bahnhofstrasse 31
Wikon CH 4806
CH

00-1E-87 (hex) Realease Limited
001E87 (base 16) Realease Limited
15/F, Morrison Commercial Building
WanChai
HK

00-1E-BF (hex) Haas Automation Inc.
001EBF
(base 16) Haas Automation Inc.
2800 Sturgis Rd
Oxnard CA 93030
US

00-1E-BC (hex) WINTECH AUTOMATION CO.,LTD.
001EBC (base 16) WINTECH AUTOMATION CO.,LTD.
#1115, TAEKWANG BLVD.
SUWON-SI KYUNGGI 443-816

KR

00-1E-B1 (hex) Cryptsoft Pty Ltd
001EB1 (base 16) Cryptsoft Pty Ltd
P.O. Box 6389
Fairfield Gardens Queensland 4103
AU

00-1E-AF (hex) Ophir Optronics Ltd
001EAF (base 16) Ophir Optronics Ltd
POB 45021
Jerusalem 91450
IL

00-1E-AD (hex) Wingtech Group Limited
001EAD (base 16) Wingtech Group Limited
6th floor, Unit G, No.668, East Beijing Road,
Shanghai 200001
CN

00-1E-FE (hex) LEVEL s.r.o.
001EFE (base 16) LEVEL s.r.o.
Plhovska 1997
Nachod 547 01
CZ

00-1E-EB (hex) Talk-A-Phone Co.
001EEB (base 16) Talk-A-Phone Co.
5013 N. Kedzie Ave.
Chicago IL 60625
US

00-1E-A1 (hex) Brunata a/s
001EA1 (base 16) Brunata a/s
Vesterlundvej
14
Herlev 2730
DK

00-1E-35 (hex) Nintendo Co., Ltd.
001E35 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

00-1E-2B (hex) Radio Systems Design, Inc.
001E2B (base 16) Radio Systems Design, Inc.
601 Heron Drive

Logan Twp New Jersey 08085
US

00-1E-28 (hex) Lumexis Corporation
001E28 (base 16) Lumexis Corporation
3184 Airway Ave Bldg D
Costa Mesa CA 92626
US

00-1E-24 (hex) Zhejiang Bell Technology Co.,ltd
001E24 (base 16) Zhejiang Bell Technology Co.,ltd
6 Xidoumen Rd. West Lake district
Hangzhou Zhejiang 310012
CN

00-1E-20 (hex) Intertain Inc.
001E20 (base 16) Intertain Inc.
Suite 608 LG Eclat-2, 245-4 Seohyun-dong, Bundang-gu
Sungngm-shi Kyunggi-do 463-824
KR

00-1E-6F (hex) Magna-Power Electronics, Inc.
001E6F (base 16) Magna-Power Electronics, Inc.
39 Royal Road
Flemington NJ 08822
US

00-1E-6A
(hex) Beijing Bluexon Technology Co.,Ltd
001E6A (base 16) Beijing Bluexon Technology Co.,Ltd
Jinqiuzhichun 7-301,Zhichun Rd.,
Beijing 100088
CN

00-1E-66 (hex) RESOL Elektronische Regelungen GmbH
001E66 (base 16) RESOL Elektronische Regelungen GmbH
Heiskampstraße 10
Hattingen NRW 45527
DE

00-1E-63 (hex) Vibro-Meter SA
001E63 (base 16) Vibro-Meter SA
Route de Moncor 4
Fribourg CH-1701
CH

00-1E-53 (hex) Further Tech Co., LTD
001E53 (base 16) Further Tech Co., LTD

8F,NO 421, Sungshan RD.,Taipei, Taiwn,R.O.C.
Taipei 110
TW

00-1E-4E (hex) DAKO EDV-Ingenieur- und Systemhaus GmbH
001E4E (base 16) DAKO EDV-Ingenieur- und Systemhaus GmbH
Ernst-Haeckel-Platz 5/6
Jena Thuringia 07745
DE

00-1E-49 (hex) Cisco Systems, Inc
001E49 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1E-42 (hex) Teltonika
001E42 (base 16) Teltonika
Zirmunu
27
Vilnius LT - 09105
LT

00-1E-43 (hex) AISIN CORPORATION
001E43 (base 16) AISIN CORPORATION
6-18, Harayama, Oka-cho
Okazaki Aichi 444-8564
JP

00-1E-32 (hex) Zensys
001E32 (base 16) Zensys
Emdrupvej 26
Copenhagen O DK-2100
DK

00-1E-1C (hex) SWS Australia Pty Limited
001E1C (base 16) SWS Australia Pty Limited
23 Scanlon Drive
Epping Victoria 3076
AU

00-1E-12 (hex) Ecolab
001E12 (base 16) Ecolab
655 Lone Oak Drive
Eagan MN 55121
US

00-1E-16 (hex) Keytronix

001E16 (base 16) Keytronix
Ungargasse 64-66/1/109
Vienna 1030
AT

00-1E-08 (hex) Centec Networks Inc
001E08 (base 16) Centec Networks Inc
Suite 4F-13/16, Building B, No.5 Xing Han Street
Suzhou Jiangsu 215021
CN

00-1D-FB (hex) NETCLEUS Systems Corporation
001DFB (base 16) NETCLEUS Systems Corporation
3F, Daiichi-maeda Bldg.
Yamato-shi 242-0017
JP

00-1E-7F
(hex) CBM of America
001E7F (base 16) CBM of America
1455 West Newport Center Drive
Deerfield Beach Florida 33442
US

00-1E-82 (hex) SanDisk Corporation
001E82 (base 16) SanDisk Corporation
630 Alder Drive,
Milpitas CA 95035
US

00-1D-90 (hex) EMCO Flow Systems
001D90 (base 16) EMCO Flow Systems
2150 Miller Drive
Longmont CO 80501
US

00-1D-93 (hex) Modacom
001D93 (base 16) Modacom
Jinsuk Building 1536-7
Seoul 137-073
KR

00-1D-94 (hex) Climax Technology Co., Ltd
001D94 (base 16) Climax Technology Co., Ltd
No. 258, Hsin Hu 2nd Road
Taipei City Taipei 114
TW

00-1D-8E (hex) Alereon, Inc.
001D8E (base 16) Alereon, Inc.
7600 N. Capital of Texas Hwy
Austin TX 78731
US

00-1D-BF (hex) Radiient Technologies, Inc.
001DBF (base 16) Radiient Technologies, Inc.
2084-A Walsh Ave
Santa Clara CA 95050
US

00-1D-B9 (hex) Wellspring Wireless
001DB9
(base 16) Wellspring Wireless
107 Magella Court
North Wales Pa 19454
US

00-1D-BB (hex) Dynamic System Electronics Corp.
001DBB (base 16) Dynamic System Electronics Corp.
5F,NO,9,LANE 130,SEC 1,KUANGG FU RD.SAN CHUNG CITY,
Taipei Hsien 24158
TW

00-1D-84 (hex) Gateway, Inc.
001D84 (base 16) Gateway, Inc.
610 Gateway Drive
North Sioux City South Dakota 57049
US

00-1D-85 (hex) Call Direct Cellular Solutions
001D85 (base 16) Call Direct Cellular Solutions
Suite 145, National Innovation Centre
Eveleigh NSW 1430
AU

00-1D-7B (hex) Ice Energy, Inc.
001D7B (base 16) Ice Energy, Inc.
9351 Eastman Park Drive
Windsor Colorado 80550
US

00-1D-6C (hex) ClariPhy Communications, Inc.
001D6C (base 16) ClariPhy Communications, Inc.
16 Technology Dr., Suite 165
Irvine CA 92618
US

00-1D-DB (hex) C-BEL Corporation
001DDB (base 16) C-BEL Corporation
Futabacho
35-12
Itabashi-ku Tokyo 173-0011
JP

00-1D-E6 (hex) Cisco Systems, Inc
001DE6 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1D-E7 (hex) Marine Sonic Technology, Ltd.
001DE7 (base 16) Marine Sonic Technology, Ltd.
5508 George Washington Memorial Highway
White Marsh Virginia 23183
US

00-1D-A4 (hex) Hangzhou System Technology CO., LTD
001DA4 (base 16) Hangzhou System Technology CO., LTD
ROOM A1505 HuaXing times plaza,NO 478 Wensan Road
Hangzhou Zhejiang 310012
CN

00-1D-B3 (hex) HPN Supply Chain
001DB3 (base 16) HPN Supply Chain
8000 Foothills Blvd
Roseville CA 95747
US

00-1D-B1 (hex) Crescendo Networks
001DB1 (base 16) Crescendo Networks
6 Yoni Netanyahu St.
Or-Yehuda 60376
IL

00-1D-B4 (hex) KUMHO ENG CO.,LTD
001DB4 (base 16) KUMHO ENG CO.,LTD
498-13, HYUNDAI B/D 5F
DAEGU 703-835
KR

00-1D-C5 (hex) Beijing Jiaxun
Feihong Electricial Co., Ltd.
001DC5 (base 16) Beijing Jiaxun Feihong Electricial Co., Ltd.
Electrical Building,No. 31 Jiaoda East Road,

Beijing Haidian District, 100044
CN

00-1D-C6 (hex) SNR Inc.
001DC6 (base 16) SNR Inc.
VBIC T223ho, ICU, 103-6 Munji-dong, Youseong-gu
Daejeon 305-732
KR

00-1D-9F (hex) MATT R.P.Traczynscy Sp.J.
001D9F (base 16) MATT R.P.Traczynscy Sp.J.
Polnocna 44
Koscian wielkopolskie PL-64000
PL

00-1D-34 (hex) SYRIS Technology Corp
001D34 (base 16) SYRIS Technology Corp
21 F-2, NO. 12, SEC. 1, Taijunggang Rd.
Taichung 403
US

00-1D-32 (hex) Longkay Communication & Technology (Shanghai) Co. Ltd
001D32 (base 16) Longkay Communication & Technology (Shanghai) Co. Ltd
No.5 Building, Unit 2, Lane 299 Bisheng Rd,
Shanghai 201204
CN

00-1D-2A (hex) SHENZHEN BUL-TECH CO.,LTD.
001D2A (base 16) SHENZHEN BUL-TECH CO.,LTD.
4/F, COFCO Bdlg , 3rd
District,Baoan District, Shenzhen City,
shengzhen guangdong 518101
CN

00-1D-2D (hex) Pylone, Inc.
001D2D (base 16) Pylone, Inc.
4F Nakano Bldg. 4-30-8 Kita-Shinjuku
Shinjuku-ku, Tokyo 169-0074
JP

00-1D-2B (hex) Wuhan Pont Technology CO. , LTD
001D2B (base 16) Wuhan Pont Technology CO. , LTD
Building E, Guandong Science and Technology Industry Park,
Wuhan Hubei 430074
CN

00-1D-4C (hex) Alcatel-Lucent
001D4C (base 16) Alcatel-Lucent

601 Data Dr.
Plano TX 75075
US

00-1D-3E (hex) SAKA TECHNO SCIENCE CO.,LTD
001D3E (base 16) SAKA TECHNO SCIENCE CO.,LTD
Nishi 105-1
Kanazawa Ishikawa 920-0367
JP

00-1D-40 (hex) Intel – GE Care Innovations LLC
001D40 (base 16) Intel – GE Care Innovations LLC
3721 Douglas Blvd
Roseville CA 95661
US

00-1C-E9 (hex) Galaxy Technology Limited
001CE9 (base 16) Galaxy Technology Limited
9/F Win Full Commerical Building, 172-176
Wing Lok Street,
Sheung Wan,
HK

00-1C-EA (hex) Scientific-Atlanta, Inc
001CEA (base 16) Scientific-Atlanta, Inc
5030 Sugarloaf Pkwy
Lawrenceville GA 30044
US

00-1C-E7 (hex) Rocon PLC Research Centre
001CE7 (base 16) Rocon PLC Research Centre
21 Vek 56A str.
Sofia 1700
US

00-1D-02 (hex) Cybertech Telecom Development
001D02 (base 16) Cybertech Telecom Development
Hazenkoog 25
Alkmaar Noord Holland 1822 BS
NL

00-1C-FE (hex) Quartics Inc
001CFE (base 16) Quartics Inc
15241 Laguna Canyon Road
Irvine CA 92618
US

00-1C-E4 (hex) EleSy JSC

001CE4 (base 16) EleSy JSC
Altayskaya street, 161a
Tomsk oblast 634021
RU

00-1C-E2 (hex) Attero Tech, LLC.
001CE2 (base 16) Attero Tech, LLC.
1315 Directors Row - Suite 107
Fort Wayne Indiana 46808
US

00-1D-5D (hex) Control Dynamics Pty. Ltd.
001D5D (base 16) Control Dynamics Pty. Ltd.
PO Box 636
MORLEY
Western Australia 6943
AU

00-1D-59 (hex) Mitra Energy & Infrastructure
001D59 (base 16) Mitra Energy & Infrastructure
Boulevard de l'Europe 131
1301 Wavre
BE

00-1D-57 (hex) CAETEC Messtechnik
001D57 (base 16) CAETEC Messtechnik
Schlossstraße 95a
Olching Bayern 82140
DE

00-1D-51 (hex) Babcock & Wilcox Power Generation Group, Inc
001D51 (base 16) Babcock & Wilcox Power Generation Group, Inc
11864 Canon Blvd, Suite 105
Newport News VA 23606
US

00-1D-0B (hex) Power Standards Lab
001D0B (base 16) Power Standards Lab
1201 Marina Village Parkway #101
Alameda CA 94501
US

00-1D-22 (hex) Foss Analytical A/S
001D22 (base 16) Foss Analytical A/S
Slangerupgade 69
Hillerød Seeland 3400
DK

00-1D-23 (hex) SENSUS
001D23 (base 16) SENSUS
44 CASTILIAN DRIVE
GOLETA CALIFORNIA 93117
US

00-1D-1A (hex) OvisLink S.A.
001D1A (base 16) OvisLink
S.A.
C/Andres Obispo, 37. Pl. 4.
Madrid 28043
ES

00-1C-7A (hex) Perfectone Netware Company Ltd
001C7A (base 16) Perfectone Netware Company Ltd
Unit 815, Sun Fung Centre,
Kwai Chung
HK

00-1C-75 (hex) Segnet Ltd.
001C75 (base 16) Segnet Ltd.
146 New London Road
Chelmsford Essex CM2 OAW
GB

00-1C-74 (hex) Syswan Technologies Inc.
001C74 (base 16) Syswan Technologies Inc.
2050 Beavercreek Road
Oregon City Oregon 97045
US

00-1C-68 (hex) Anhui Sun Create Electronics Co., Ltd
001C68 (base 16) Anhui Sun Create Electronics Co., Ltd
NO.199 Xiangzhang Road
Hefei Anhui 230088
CN

00-1C-BC (hex) CastGrabber, LLC
001CBC (base 16) CastGrabber, LLC
6507 Wilkins Avenue Ste. 212
Pittsburgh PA 15217
US

00-1C-B7 (hex) USC DigiArk Corporation
001CB7 (base 16) USC DigiArk Corporation
6F Tennoz Central Tower 2-2-24 Higashishinagawa
Tokyo Shinagawa-ku 140-0002
JP

00-1C-B1
(hex) Cisco Systems, Inc
001CB1 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1C-AF (hex) Plato Networks Inc.
001CAF (base 16) Plato Networks Inc.
2855 Kifer Road
Santa Clara CA 95051
US

00-1C-AA (hex) Bellon Pty Ltd
001CAA (base 16) Bellon Pty Ltd
Unit 12/12-18 Victoria St East
Lidcombe NSW 2000
AU

00-1C-A0 (hex) Production Resource Group, LLC
001CA0 (base 16) Production Resource Group, LLC
539 Temple Hill Road
New Windsor NY 12553
US

00-1C-98 (hex) LUCKY TECHNOLOGY (HK) COMPANY LIMITED
001C98 (base 16) LUCKY TECHNOLOGY (HK) COMPANY LIMITED
FLAT/RM 1503 15/F ISLAND BEVERLEY NO 1 GREAT GEORGE STREET CAUSEWAY BAY
999077
HK

00-1C-91 (hex) Gefen LLC
001C91 (base 16) Gefen LLC
5919 Sea Otter Place
Carlsbad CA 92010
US

00-1C-92 (hex) Tervela
001C92 (base 16) Tervela
43 Nagog Park
Acton MA 01720
US

00-1C-66
(hex) UCAMP CO.,LTD
001C66 (base 16) UCAMP CO.,LTD
#1015, Kolon Science Valley ¥±

Seoul Guro-Dong,Guro-gu, 152-848
KR

00-1C-DB (hex) CARPOINT CO.,LTD
001CDB (base 16) CARPOINT CO.,LTD
1340-6, Namgang Bld 7F, Seocho-Dong
SEOUL 137-070
KR

00-1C-D5 (hex) ZeeVee, Inc.
001CD5 (base 16) ZeeVee, Inc.
1 Monarch Drive
Littleton MA 01460
US

00-1C-D3 (hex) ZP Engineering SEL
001CD3 (base 16) ZP Engineering SEL
via Ardito Desio, 60
ROME 00131
IT

00-1C-CB (hex) Forth Corporation Public Company Limited
001CCB (base 16) Forth Corporation Public Company Limited
226/12,13,16 Paholyothin Road
Bangkok 10400
TH

00-1C-53 (hex) Synergy Lighting Controls
001C53 (base 16) Synergy Lighting Controls
One Lithonia Way
Conyers GA 30012
US

00-1C-4D (hex) Aplix IP Holdings Corporation
001C4D (base 16) Aplix IP Holdings Corporation
2-20-9 Nishiwaseda
Shinjuku-ku
Tokyo 169-0051
JP

00-1C-38 (hex) Bio-Rad Laboratories, Inc.
001C38 (base 16) Bio-Rad Laboratories, Inc.
245 Winter St.
Waltham MA 02451
US

00-1C-8A (hex) Cirrascale Corporation
001C8A (base 16) Cirrascale Corporation

9449 Carroll Park Drive
San Diego CA 92121
US

00-1C-81 (hex) NextGen Venturi LTD
001C81 (base 16) NextGen Venturi LTD
Technium 2
Swansea West Glamorgan SA18PJ
GB

00-1C-02 (hex) Pano Logic
001C02 (base 16) Pano Logic
2000 Seaport Drive, Suite 200
Redwood City CA 94063
US

00-1C-05 (hex) Nonin Medical Inc.
001C05 (base 16) Nonin Medical Inc.
13700 1st Avenue North
Plymouth MN 55441
US

00-1C-06 (hex) Siemens Numerical Control Ltd., Nanjing
001C06 (base 16) Siemens Numerical Control Ltd., Nanjing
No. 18 Siemens Road, Jiangning Development Zone
Nanjing JiangSu 211100
CN

00-1C-04 (hex) Airgain, Inc.
001C04 (base
16) Airgain, Inc.
1930 Palomar Point Way
Carlsbad CA 92008
US

00-1C-01 (hex) ABB Oy Drives
001C01 (base 16) ABB Oy Drives
Hiomotie 13
Helsinki FI-00380
FI

00-1B-FF (hex) Millennia Media inc.
001BFF (base 16) Millennia Media inc.
4200 Day Spring CT
Placerville CA 95667
US

00-1C-30 (hex) Mode Lighting (UK) Ltd.

001C30 (base 16) Mode Lighting (UK) Ltd.
The Maltings
Ware Hertfordshire SG12 9AD
GB

00-1C-2E (hex) HPN Supply Chain
001C2E (base 16) HPN Supply Chain
8000 Foothills Blvd
Roseville CA 95747
US

00-1C-2A (hex) Envisacor Technologies Inc.
001C2A (base 16) Envisacor Technologies Inc.
237 Romina Drive
Concord Ontario L4K 4V3
CA

00-1B-C6 (hex) Strato Rechenzentrum AG
001BC6 (base 16) Strato Rechenzentrum AG
Pascalstrasse 10
D-10587 Berlin
DE

00-1B-C4 (hex) Ultratec, Inc.
001BC4 (base 16) Ultratec, Inc.
450 Science Drive
Madison
WI 53711
US

00-1B-C2 (hex) Integrated Control Technology Limitied
001BC2 (base 16) Integrated Control Technology Limitied
11 Canaveral Drive
Auckland Auckland 0735
NZ

00-1B-BB (hex) RFTech Co.,Ltd
001BBB (base 16) RFTech Co.,Ltd
339-17 Jwahang-Ri,Wonsam-Myun,
Yongin-Si Kyungki-Do 449-871
KR

00-1B-D2 (hex) ULTRA-X ASIA PACIFIC Inc.
001BD2 (base 16) ULTRA-X ASIA PACIFIC Inc.
5-1-15 Sotokanda
Tokyo Chiyoda-ku 101-0021
JP

00-1B-F2 (hex) KWORLD COMPUTER CO., LTD
001BF2 (base 16) KWORLD COMPUTER CO., LTD
No. 113, Jian 2nd Rd.,
Jhonghe Taipei county 235
TW

00-1B-F0 (hex) Value Platforms Limited
001BF0 (base 16) Value Platforms Limited
Rm 712-713, Building 9, 5, Science Park West Ave.,
Shatin,
HK

00-1B-EA (hex) Nintendo Co., Ltd.
001BEA (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

00-1B-E5
(hex) 802automation Limited
001BE5 (base 16) 802automation Limited
18 First Avenue
Worthing West Sussex BN14 9NJ
GB

00-1B-E4 (hex) TOWNET SRL
001BE4 (base 16) TOWNET SRL
VIA DEI FINALE, 20
61043 CAGLI (PU)
IT

00-1B-AA (hex) XenICs nv
001BAA (base 16) XenICs nv
Ambachtenlaan 44
Leuven Vlaams-Brabant B-3001
BE

00-1C-1B (hex) Hyperstone GmbH
001C1B (base 16) Hyperstone GmbH
Line-Eid-Straße 3
Konstanz Baden-Württemberg 78467
DE

00-1C-10 (hex) Cisco-Linksys, LLC
001C10 (base 16) Cisco-Linksys, LLC
121 Theory Drive
Irvine California 92612
US

00-1B-8D (hex) Electronic Computer Systems, Inc.
001B8D (base 16) Electronic Computer Systems, Inc.
418 Donegal Drive
Towson MD 21286
US

00-1B-86 (hex) Bosch Access Systems GmbH
001B86 (base 16) Bosch Access Systems GmbH
Charlottenburger Allee 50
AACHEN D-52068
DE

00-1B-5D (hex) Vololink
Pty Ltd
001B5D (base 16) Vololink Pty Ltd
Level 2, 541 Blackburn Road
Mount Waverley Victoria 3149
AU

00-1B-5A (hex) Apollo Imaging Technologies, Inc.
001B5A (base 16) Apollo Imaging Technologies, Inc.
18545 Rangeland Rd
Ramona CA 92065
US

00-1B-56 (hex) Tehuti Networks Ltd.
001B56 (base 16) Tehuti Networks Ltd.
1, Shenkar St.
Hertzliya 46105
IL

00-1B-7C (hex) A & R Cambridge
001B7C (base 16) A & R Cambridge
Pembroke Avenue
Cambridge CAMBS CB25 9QR
GB

00-1B-A1 (hex) Åmic AB
001BA1 (base 16) Åmic AB
Uppsala science park
Uppsala 75183
SE

00-1B-96 (hex) General Sensing
001B96 (base 16) General Sensing
Unit 716, Cyberport 1
Pok Fu Lam

US

00-1B-4C (hex) Signtech
001B4C (base 16) Signtech
609 Seonil Technopia 609
Sungnamsi Kyunggido 462-120
KR

00-1A-EA (hex) Radio Terminal Systems Pty Ltd
001AEA (base 16) Radio Terminal Systems
Pty Ltd
1st Floor
Laverton North Victoria 3026
AU

00-1A-DD (hex) PePWave Ltd
001ADD (base 16) PePWave Ltd
17/F., Park Building,
Cheung Sha Wan Kowloon
HK

00-1A-D4 (hex) iPOX Technology Co., Ltd.
001AD4 (base 16) iPOX Technology Co., Ltd.
15F-1, No.186, Jian-Yi Rd., Chung-Ho City,
Taipei 235
TW

00-1A-D6 (hex) JIAGNSU AETNA ELECTRIC CO.,LTD
001AD6 (base 16) JIAGNSU AETNA ELECTRIC CO.,LTD
NO.571 QIANHU ROAD,QIANQIAO INDUSTRY PARK,WUXI,JIANGSU,CHINA
WUXI JIANGSU 214151
CN

00-1A-D5 (hex) KMC CHAIN INDUSTRIAL CO., LTD.
001AD5 (base 16) KMC CHAIN INDUSTRIAL CO., LTD.
7F-8, No. 81, Sui-Lih Rd., Hsinchu
Hsinchu 300
TW

00-1A-D0 (hex) Albis Technologies AG
001AD0 (base 16) Albis Technologies AG
Albisriederstrasse 199
CH 8047 Zuerich
CH

00-1B-1E (hex) HART Communication Foundation
001B1E (base 16) HART Communication Foundation
STE 1-350

Austin
TX 78759
US

00-1B-14 (hex) Carex Lighting Equipment Factory
001B14 (base 16) Carex Lighting Equipment Factory
50 Chang Tang Rd., Yan Tian District,
Guangdong province
CN

00-1B-15 (hex) Voxtel, Inc.
001B15 (base 16) Voxtel, Inc.
12725 SW Millikan Way
Beaverton OR 97005
US

00-1A-C3 (hex) Scientific-Atlanta, Inc
001AC3 (base 16) Scientific-Atlanta, Inc
5030 Sugarloaf Pkwy
Lawrenceville GA 30044
US

00-1A-BF (hex) TRUMPF Laser Marking Systems AG
001ABF (base 16) TRUMPF Laser Marking Systems AG
Ausserfeld
Gruesch GR 7214
CH

00-1A-B8 (hex) Anseri Corporation
001AB8 (base 16) Anseri Corporation
35E Industrial Way
Rochester NH 03867
US

00-1A-BC (hex) U4EA Technologies Ltd
001ABC (base 16) U4EA Technologies Ltd
City Point
Bristol BS1 6PL
GB

00-1A-D3 (hex) Vamp Ltd.
001AD3 (base 16) Vamp Ltd.
PO Box 810
Vaasa 65101
FI

00-1A-D8

(hex) AlsterAero GmbH
001AD8 (base 16) AlsterAero GmbH
Heidenkampsweg 45
Hamburg 20097
DE

00-1A-DA (hex) Biz-2-Me Inc.
001ADA (base 16) Biz-2-Me Inc.
1301 West Eau Gallie Blvd
Melbourne FL 32935
US

00-1A-CB (hex) Autocom Products Ltd
001ACB (base 16) Autocom Products Ltd
Unit 4 Tachbrook Link, Tachbrook Park Drive
Warwick Warwickshire CV34 6RH
GB

00-1A-CF (hex) C.T. ELETTRONICA
001ACF (base 16) C.T. ELETTRONICA
Via Caduti di Nassiriya 5 B
Barberino Val D'Elsa (FI) 50021
IT

00-1B-03 (hex) Action Technology (SZ) Co., Ltd
001B03 (base 16) Action Technology (SZ) Co., Ltd
Action Technology Building Baoyuan Road, Xixiang, Bao'an District
Shenzhen Guangdong 518102
CN

00-1A-FB (hex) Joby Inc.
001AFB (base 16) Joby Inc.
1535 Mission St.
San Francisco CA 94103
US

00-1A-FD (hex) EVOLIS
001AFD (base 16) EVOLIS
29 avenue de la fontaine
Beaucouze
49070
FR

00-1A-A3 (hex) DELORME
001AA3 (base 16) DELORME
2 DELORME DRIVE
YARMOUTH MAINE 04096
US

00-1A-9B (hex) ADEC & Parter AG
001A9B (base 16) ADEC & Parter AG
Staldenbachstrasse 30
Pfaeffikon ZH 8808
CH

00-1A-9D (hex) Skipper Wireless, Inc.
001A9D (base 16) Skipper Wireless, Inc.
Shinjuku-Sumitomo Bldg. 20F
Shinjuku Tokyo 163-0220
JP

00-1A-8E (hex) 3Way Networks Ltd
001A8E (base 16) 3Way Networks Ltd
7200 Cambridge Research Park
Cambridge Cambridgeshire CB5 9TL
GB

00-1A-6F (hex) MI.TEL s.r.l.
001A6F (base 16) MI.TEL s.r.l.
VIA GUIDO ROSSA, 22
CORNATE D'ADDA MILANO 20040
IT

00-1A-71 (hex) Diostech Co., Ltd.
001A71 (base 16) Diostech Co., Ltd.
151-21, Buk-ri, Namsa-myeon,
Yongin-city Gyeonggi-do 449 884
KR

00-1A-69 (hex) Wuhan Yangtze Optical Technology CO.,Ltd.
001A69 (base 16) Wuhan Yangtze Optical Technology CO.,Ltd.
4#,Guanshan
2 Road
Wuhan Hubei 430073
CN

00-1A-67 (hex) Infinite QL Sdn Bhd
001A67 (base 16) Infinite QL Sdn Bhd
G.02, Block A, Dataran Hamodal
Petaling Jaya Selangor Darul Ehsan 46300
MY

00-1A-64 (hex) IBM Corp
001A64 (base 16) IBM Corp
3039 E Cornwallis Road
Research Triangle Park NC 27709-2195

US

00-1A-1F (hex) Coastal Environmental Systems
001A1F (base 16) Coastal Environmental Systems
820 First Avenue South
Seattle wa 98134
US

00-1A-23 (hex) Ice Qube, Inc
001A23 (base 16) Ice Qube, Inc
141 Wilson Ave
Greensburg Pa 15601
US

00-1A-1D (hex) PChome Online Inc.
001A1D (base 16) PChome Online Inc.
11F, 105, Sec. 2, Tun-Hwa S. Rd.
Taipei 106
TW

00-1A-17 (hex) Teak Technologies, Inc.
001A17 (base 16) Teak Technologies, Inc.
2901 Tasman Dr., Ste. #210
Santa Clara CA 95054
US

00-1A-44 (hex) JWTrading Co., Ltd
001A44 (base 16) JWTrading Co., Ltd
1590
Kwanyang-dong, Dongan-ku
Ahnyang Kyungki - do 431-060
KR

00-1A-33 (hex) ASI Communications, Inc.
001A33 (base 16) ASI Communications, Inc.
1042 E Guadalupe Rd
Tempe AZ 85283
US

00-1A-1C (hex) GT&T Engineering Pte Ltd
001A1C (base 16) GT&T Engineering Pte Ltd
2 Ang Mo Kio St.64, Econ Building, #04-00
Singapore 569084
SG

00-1A-49 (hex) Micro Vision Co.,LTD
001A49 (base 16) Micro Vision Co.,LTD
1-9-15

Niigata-city Niigata-ken 950-0986
JP

00-1A-3D (hex) Ajin Vision Co.,Ltd
001A3D (base 16) Ajin Vision Co.,Ltd
1404, Mario-Tower, 222-12
Seoul 152-050
KR

00-1A-41 (hex) INOCOVA Co.,Ltd
001A41 (base 16) INOCOVA Co.,Ltd
5F SEOUL BD.736-17
Yeoksam-Dong, Kangnam-Ku SEOUL 135-924
KR

00-1A-55 (hex) ACA-Digital Corporation
001A55 (base 16) ACA-Digital Corporation
17 F, No. 866-7, Chung Cheng Rd.,
Chung Ho City Taipei County 23586
TW

00-1A-85
(hex) NV Michel Van de Wiele
001A85 (base 16) NV Michel Van de Wiele
M. Vandewielestraat 7
Marke West-Vlaanderen 8510
BE

00-1A-51 (hex) Alfred Mann Foundation
001A51 (base 16) Alfred Mann Foundation
P.O. Box 905
Santa Clarita CA 91380-9005
US

00-19-B2 (hex) XYnetsoft Co.,Ltd
0019B2 (base 16) XYnetsoft Co.,Ltd
NO.158Zhenyu Street High Industries Development area
ChangChun JiLin 130000
CN

00-19-A4 (hex) Austar Technology (hang zhou) Co.,Ltd
0019A4 (base 16) Austar Technology (hang zhou) Co.,Ltd
7-402,West Lake Software Part
Hang Zhou Zhe Jiang 310012
CN

00-19-AA (hex) Cisco Systems, Inc
0019AA (base 16) Cisco Systems, Inc

80 West Tasman Drive
San Jose CA 94568
US

00-19-B1 (hex) Arrow7 Corporation
0019B1 (base 16) Arrow7 Corporation
Kamijima 3-27-7
Hamamatsu Shizuoka 433-8122
JP

00-19-96 (hex) TurboChef Technologies Inc.
001996 (base 16) TurboChef
Technologies Inc.
4240 International Parkway
Carrollton Texas 75007
US

00-19-97 (hex) Soft Device Sdn Bhd
001997 (base 16) Soft Device Sdn Bhd
67-2 Jalan 2/27F
Kuala Lumpur WP 53300
MY

00-19-98 (hex) SATO CORPORATION
001998 (base 16) SATO CORPORATION
1-207,ONARI-CHO,
SAITAMA-SHI SAITAMA 330-0852
JP

00-19-9C (hex) CTRING
00199C (base 16) CTRING
#514, World Meridian Venture Center II
Keumcheon-gu Seoul 153-803
KR

00-19-E6 (hex) TOYO MEDIC CO.,LTD.
0019E6 (base 16) TOYO MEDIC CO.,LTD.
1-17-22 Kitahorie, Nishi-ku
Osaka 550-0014
JP

00-19-E8 (hex) Cisco Systems, Inc
0019E8 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-19-DF (hex) Thomson Inc.

0019DF (base 16) Thomson Inc.
101 West 103rd Street
Indianapolis IN 46290-1102
US

00-19-DD (hex) FEI-Zyfer, Inc.
0019DD (base 16) FEI-Zyfer, Inc.
1515 S. Manchester
Anaheim
CA 92802
US

00-1A-0A (hex) Adaptive Micro-Ware Inc.
001A0A (base 16) Adaptive Micro-Ware Inc.
6917 Innovation Blvd
Fort Wayne IN 46818
US

00-1A-05 (hex) OPTIBASE LTD
001A05 (base 16) OPTIBASE LTD
7 Shankar St.
Herzliya ISRAEL 46120
IL

00-19-B3 (hex) Stanford Research Systems
0019B3 (base 16) Stanford Research Systems
1290-D Reamwood Ave
Sunnyvale CA 94089
US

00-19-D4 (hex) ICX Technologies
0019D4 (base 16) ICX Technologies
3440 Francis-Hughes
Laval Quebec H7L 5A9
CA

00-19-CF (hex) SALICRU, S.A.
0019CF (base 16) SALICRU, S.A.
Av. Serra , 100
Sta.Ma.Palautordera Barcelona 08460
ES

00-19-FC (hex) PT. Ufoakses Sukses Luarbiasa
0019FC (base 16) PT. Ufoakses Sukses Luarbiasa
Jl. Sultan Hasanudin No. 41
Jakarta Selatan DKI Jakarta 12160
ID

00-19-8B (hex) Novera Optics Korea, Inc.
00198B (base 16) Novera Optics Korea, Inc.
463-1
Jeon Min Dong Yuseong Gu
Deajeon 305-811
KR

00-19-46 (hex) Cianet Industria e Comercio S/A
001946 (base 16) Cianet Industria e Comercio S/A
rod SC401, km01 Tecnopolis/Alfama 4o. Andar
Florianopolis Santa Catarina 88030-902
BR

00-19-49 (hex) TENTEL COMTECH CO., LTD.
001949 (base 16) TENTEL COMTECH CO., LTD.
3/F., NO. 42, LANE 80, SEC. 3, NAN-KANG RD.,
TAIPEI 115
TW

00-19-44 (hex) Fossil Partners, L.P.
001944 (base 16) Fossil Partners, L.P.
2280 N. Greenville Ave.
Richardson TX 75082
US

00-19-08 (hex) Duaxes Corporation
001908 (base 16) Duaxes Corporation
2-5, Kasumigaseki 3-chome, Chiyoda-ku.
Tokyo Foreign 100-6014
JP

00-19-0C (hex) Encore Electronics, Inc.
00190C (base 16) Encore Electronics, Inc.
16483 Old Valley Blvd.
La Puente CA 91744
US

00-19-76 (hex) Xipher Technologies, LLC
001976 (base 16) Xipher Technologies, LLC
156 River Road
Willington
CT 06279
US

00-19-6C (hex) ETROVISION TECHNOLOGY
00196C (base 16) ETROVISION TECHNOLOGY
2F, 19-5 San Chung Rd.,
TAIPEI 115

TW

00-19-67 (hex) TELDAT Sp.J.
001967 (base 16) TELDAT Sp.J.
Kijowska 44
Bydgoszcz woj. kujawsko-pomorskie 85-703
PL

00-19-42 (hex) ON SOFTWARE INTERNATIONAL LIMITED
001942 (base 16) ON SOFTWARE INTERNATIONAL LIMITED
9F, NO. 17, SEC. 1, CHENG-TE RD.
TAIPEI 103
TW

00-19-3F (hex) RDI technology(Shenzhen) Co.,LTD
00193F (base 16) RDI technology(Shenzhen) Co.,LTD
Building C1&C2, Xin Tang Industrial Zone,East BaiShiXia Village, Fuyong Town, Baoan District
SHENZHEN GUANGDONG province 518103
CN

00-19-41 (hex) Pitney Bowes, Inc
001941 (base 16) Pitney Bowes, Inc
35 Waterview Drive
Shelton CT 06484
US

00-19-2D (hex) Nokia Corporation
00192D (base 16) Nokia Corporation
Rensingstraße 15
Bochum NRW 44807
DE

00-19-30
(hex) Cisco Systems, Inc
001930 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-19-27 (hex) ImCoSys Ltd
001927 (base 16) ImCoSys Ltd
Bundesstrasse 5
Zug ZG 6300
CH

00-19-71 (hex) Guangzhou Unicomp Technology Co.,Ltd
001971 (base 16) Guangzhou Unicomp Technology Co.,Ltd
7/F,North Tower,Jinshan Building.No.248

Guangzhou Guangdong 510630
CN

00-19-64 (hex) Doorking Inc.
001964 (base 16) Doorking Inc.
120 Glasgow St.
Inglewood CA. 90301
US

00-19-61 (hex) Blaupunkt Embedded Systems GmbH
001961 (base 16) Blaupunkt Embedded Systems GmbH
Bahnhofsstrasse 16
Schlitz 36110
DE

00-19-52 (hex) ACOGITO Co., Ltd
001952 (base 16) ACOGITO Co., Ltd
#501 Shinyoung Palace Tower, 246-2, Seohyun
Sungnam Kyunggi 463-824
KR

00-19-19 (hex) ASTEL Inc.
001919 (base 16) ASTEL Inc.
59-7 Jang-dong Yusung-Gu
Daejeon Chungnam 305-343
KR

00-18-F7
(hex) Kameleon Technologies
0018F7 (base 16) Kameleon Technologies
217, rue St Honoré
Paris 75001
FR

00-18-B4 (hex) Dawon Media Inc.
0018B4 (base 16) Dawon Media Inc.
Rm503. woolim e-biz center 170-5, Guro3dong Gurogu,
Seoul 152-769
KR

00-18-B6 (hex) S3C, Inc.
0018B6 (base 16) S3C, Inc.
1010 Stewart Dr.
Sunnyvale California 94085
US

00-18-B1 (hex) IBM Corp
0018B1 (base 16) IBM Corp

2051 Mission College Blvd
Santa Clara CA 95054
US

00-18-9D (hex) Navcast Inc.
00189D (base 16) Navcast Inc.
Suite 612, 6711 Mississauga Road
Mississauga ON m2r 1a3
CA

00-18-85 (hex) Motorola Solutions Inc.
001885 (base 16) Motorola Solutions Inc.
500 W Monroe Street, Ste 4400
Chicago IL 60661-3781
US

00-18-88 (hex) GOTIVE a.s.
001888 (base 16) GOTIVE a.s.
Zámocká 34
Bratislava 81101
SK

00-18-8A (hex) Infinova LLC
00188A (base
16) Infinova LLC
51 Stouts Lane, Unit 1 & 2
Monmouth Junction New Jersey 08852
US

00-18-FD (hex) Optimal Technologies International Inc.
0018FD (base 16) Optimal Technologies International Inc.
12 Spanish Main Drive
Freeport GBI
BS

00-18-F0 (hex) JOYTOTO Co., Ltd.
0018F0 (base 16) JOYTOTO Co., Ltd.
3F Sungwoo Bldg. 717-3, Sooseo-Dong
Seoul 135-220
KR

00-18-E9 (hex) Numata Corporation
0018E9 (base 16) Numata Corporation
8-2-39 nanko-higashi
Osaka-shi Osaka-fu 559-0031
JP

00-18-EF (hex) Escape Communications, Inc.

0018EF (base 16) Escape Communications, Inc.
2615 Pacific Coast Hwy
Hermosa Beach CA 90254
US

00-18-A3 (hex) ZIPPY TECHNOLOGY CORP.
0018A3 (base 16) ZIPPY TECHNOLOGY CORP.
10F, No. 50, Mincyuan Rd., Sindian City
Taipei 231
TW

00-18-93 (hex) SHENZHEN PHOTON BROADBAND TECHNOLOGY CO.,LTD
001893 (base 16) SHENZHEN PHOTON BROADBAND TECHNOLOGY CO.,LTD
2/F Hivac BLD,2th Langshan Rd,North Hi-Tech Industrial
Shenzhen Guangdong 518057
CN

00-18-A0 (hex) Cierma Ascenseurs
0018A0 (base 16) Cierma Ascenseurs
17 avenue guiglionda de saint agathe
Nice PACA 06300
FR

00-18-86 (hex) EL-TECH, INC.
001886 (base 16) EL-TECH, INC.
A-711, WOOLIM LION'S VALLEY, 371-28
SEOUL 150-834
KR

00-18-87 (hex) Metasystem SpA
001887 (base 16) Metasystem SpA
Via Oberdan 16
Reggio Emilia RE 42100
IT

00-18-7B (hex) 4NSYS Co. Ltd.
00187B (base 16) 4NSYS Co. Ltd.
3F, Hana Bldg
Guro-Gu Seoul 152-100
KR

00-18-7E (hex) RGB Spectrum
00187E (base 16) RGB Spectrum
950 Marina Village Pkwy
Alameda CA 94501
US

00-18-E6 (hex) Computer Hardware Design SIA
0018E6 (base 16) Computer Hardware Design SIA
Dzelzavas 120i
Riga LV-1021
LV

00-18-DB (hex) EPL Technology Ltd
0018DB (base 16) EPL Technology Ltd
LongDong,Longgang
District
ShenZhen GuangDong 518116
CN

00-18-C8 (hex) ISONAS Inc.
0018C8 (base 16) ISONAS Inc.
6325 Gunpark Drive
Boulder CO 80301
US

00-18-BE (hex) ANSA Corporation
0018BE (base 16) ANSA Corporation
17F, No. 738, Chung Cheng Road
Chung Ho City Taipei County 235
TW

00-18-BA (hex) Cisco Systems, Inc
0018BA (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-18-D6 (hex) Swirlnet A/S
0018D6 (base 16) Swirlnet A/S
Diplomvej 381
Lyngby DK-2800
DK

00-18-CD (hex) Erae Electronics Industry Co., Ltd
0018CD (base 16) Erae Electronics Industry Co., Ltd
#371-51, Gasan-dong
Geumchen-gu Seoul 153-803
KR

00-18-79 (hex) dSys
001879 (base 16) dSys
Soeflinger Str. 100
Ulm BW 89077
DE

00-17-EF (hex) IBM Corp
0017EF (base 16) IBM Corp
2051 Mission College Blvd
Santa Clara CA 95054
US

00-17-F5 (hex) LIG
NEOPTEK
0017F5 (base 16) LIG NEOPTEK
926 Gosaek-dong
Suwon-si Gyeonggi-do 441-813
KR

00-17-FE (hex) TALOS SYSTEM INC.
0017FE (base 16) TALOS SYSTEM INC.
6191 CORNERSTONE CT. STE #109
SAN DIEGO CA 92121
US

00-17-F8 (hex) Motech Industries Inc.
0017F8 (base 16) Motech Industries Inc.
6F, No. 248, Sec. 3, Pei-Shen Rd.,
Taipei Hsien 222
TW

00-18-63 (hex) Veritech Electronics Limited
001863 (base 16) Veritech Electronics Limited
8F, 67, Sec. 1, Zhongshan Road, Xinzhuang,
Taipei 242
TW

00-18-5A (hex) uControl, Inc.
00185A (base 16) uControl, Inc.
5914 W. Courtyard Drive
Austin TX 78730
US

00-18-52 (hex) StorLink Semiconductors, Inc.
001852 (base 16) StorLink Semiconductors, Inc.
1804 N. Shoreline Boulevard
Mountain View CA 94043
US

00-18-1E (hex) GDX Technologies Ltd.
00181E (base 16) GDX Technologies Ltd.
61-63 Back Sneddon Street
Paisley

Renfrewshire PA3 2DD
GB

00-18-07 (hex) Fanstel Corp.
001807 (base 16) Fanstel Corp.
7466 E. Monte Cristo Ave.
Scottsdale Arizona 85260
US

00-18-50 (hex) Secfone Kft
001850 (base 16) Secfone Kft
51 Bercsenyi str
Jaszbereny 5100
HU

00-18-58 (hex) TagMaster AB
001858 (base 16) TagMaster AB
Kronborgsgréind 1
Kista Stockholm S-16487
SE

00-18-49 (hex) nVent, Schroff GmbH
001849 (base 16) nVent, Schroff GmbH
Langenalber Strasse 96-100
Straubenhardt 75334
DE

00-18-46 (hex) Crypto S.A.
001846 (base 16) Crypto S.A.
V. Ipirou 45
Marousi Athens 15125
GR

00-18-45 (hex) Pulsar-Telecom LLC.
001845 (base 16) Pulsar-Telecom LLC.
Zaharova, 18a
Penza 440044
RU

00-18-3D (hex) Vertex Link Corporation
00183D (base 16) Vertex Link Corporation
Meitetsu Fudosan Takebashi Bldg 6F
Chiyoda-ku Tokyo 101-0054
JP

00-18-08 (hex) SightLogix, Inc.
001808

(base 16) SightLogix, Inc.
745 Alexander Road
Princeton NJ 08540
US

00-18-03 (hex) ArcSoft Shanghai Co. LTD
001803 (base 16) ArcSoft Shanghai Co. LTD
20th Floor, Suite (EAST) 2008, China Merchants Plaza, 333
Shanghai 200041
CN

00-18-24 (hex) Kimaldi Electronics, S.L.
001824 (base 16) Kimaldi Electronics, S.L.
Ctra. de Rubí, 292 B
Terrassa Barcelona 08228
ES

00-17-DB (hex) CANKO TECHNOLOGIES INC.
0017DB (base 16) CANKO TECHNOLOGIES INC.
5 FL. DONG SUNG BLDG. 17-8
SEOUL 150-874
KR

00-17-D6 (hex) Bluechips Microhouse Co.,Ltd.
0017D6 (base 16) Bluechips Microhouse Co.,Ltd.
212/2 M.10 Tambol Umong
Lamphun 51150
TH

00-18-25 (hex) Private
001825 (base 16) Private

00-17-CE (hex) Screen Service Spa
0017CE (base 16) Screen Service Spa
Via G.Di Vittorio 17
Brescia 25125
IT

00-17-CD (hex) CEC Wireless R&D Ltd.
0017CD (base 16) CEC Wireless
R&D Ltd.
West M5 Building,No.1 East Road
Beijing 100016
CN

00-17-D0 (hex) Opticom Communications, LLC
0017D0 (base 16) Opticom Communications, LLC
1050 Connecticut Avenue, NW

Washington DC 20036
US

00-17-C6 (hex) Cross Match Technologies Inc
0017C6 (base 16) Cross Match Technologies Inc
400, boul. Jean-Lesage
Québec G1K 8W1
CA

00-17-8F (hex) NINGBO YIDONG ELECTRONIC CO.,LTD.
00178F (base 16) NINGBO YIDONG ELECTRONIC CO.,LTD.
No.65 Siming East Rd
Yuyao City, Zhejiang Province Zhejiang Province China P.C 315400
CN

00-17-8A (hex) DARTS TECHNOLOGIES CORP.
00178A (base 16) DARTS TECHNOLOGIES CORP.
2F,No.119,Chien Kang Rd.,
Chung-Ho Taipei Hsien 235
TW

00-17-AB (hex) Nintendo Co., Ltd.
0017AB (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

00-17-89 (hex) Zenitron Corporation
001789 (base 16) Zenitron Corporation
No.
8, Lane 250, Sinhu 2nd Rd., Neihu District,
Taipei 11494
TW

00-17-87 (hex) Brother, Brother & Sons ApS
001787 (base 16) Brother, Brother & Sons ApS
Ved Amagerbanen 9
Copenhagen S DK-2300
DK

00-17-61 (hex) Private
001761 (base 16) Private

00-17-68 (hex) Zinwave Ltd
001768 (base 16) Zinwave Ltd
Zinwave Ltd, Harston Mill
Cambridge Cambridgeshire CB2 5GG
GB

00-17-69 (hex) Cymphonix Corp
001769 (base 16) Cymphonix Corp
8871 S. Sandy Parkway, Suite 150
Sandy UT 84070
US

00-17-62 (hex) Solar Technology, Inc.
001762 (base 16) Solar Technology, Inc.
7620 Cetronia Road
Allentown PA 18106
US

00-17-C3 (hex) KTF Technologies Inc.
0017C3 (base 16) KTF Technologies Inc.
4th Fl., Central Tower, 265-3, Seohyun-Dong
Sungnam-City Kyunggi-Do 463-769
KR

00-17-B7 (hex) Tonze Technology Co.
0017B7 (base 16) Tonze Technology Co.
5F-10, No.6, Lane
180,
Taipei 11490
TW

00-17-72 (hex) ASTRO Strobel Kommunikationssysteme GmbH
001772 (base 16) ASTRO Strobel Kommunikationssysteme GmbH
Olefant 1-3
Bergisch Gladbach NRW 51427
DE

00-17-7A (hex) ASSA ABLOY AB
00177A (base 16) ASSA ABLOY AB
Theres Svenssons gata 15
Goteborg 41755
SE

00-17-60 (hex) Naito Densei Machida MFG.CO.,LTD
001760 (base 16) Naito Densei Machida MFG.CO.,LTD
2-17-28 Fuchinobe
Sagamihara Kanagawa 229-0006
JP

00-17-98 (hex) Azonic Technology Co., LTD
001798 (base 16) Azonic Technology Co., LTD
15F-3, No. 163, Sec., 1 Keelung Rd.
Taipei 110

TW

00-17-47 (hex) Trimble
001747 (base 16) Trimble
345 SW Avery Ave
Corvallis OR 97333
US

00-16-F1 (hex) OmniSense, LLC
0016F1 (base 16) OmniSense, LLC
72 sams point road
Ladys Island SC 29907
US

00-16-F4 (hex) Eidicom Co., Ltd.
0016F4 (base 16) Eidicom Co., Ltd.
Polychem
B/D 4th Floor, 900-1
Anyang-si Kyeonggi-do 431-060
KR

00-16-E7 (hex) Dynamix Promotions Limited
0016E7 (base 16) Dynamix Promotions Limited
788-790, Finchley Road
London NW11 7TJ
GB

00-16-E5 (hex) FORDLEY DEVELOPMENT LIMITED
0016E5 (base 16) FORDLEY DEVELOPMENT LIMITED
ROOM 706, 7TH FLOOR, YU SUNG BOON BUILDING, 107-111 DES VOEUX ROAD, CENTRAL,

HK

00-17-20 (hex) Image Sensing Systems, Inc.
001720 (base 16) Image Sensing Systems, Inc.
1600 University Ave. W.
St. Paul MN 55104
US

00-17-1A (hex) Winegard Company
00171A (base 16) Winegard Company
3000 Kirkwood Street
Burlington IA 52601
US

00-17-26 (hex) m2c Electronic Technology Ltd.
001726 (base 16) m2c Electronic Technology Ltd.
2403, 24/F, Nanyang Plaza

Kwuntong Hong Kong 999 999
CN

00-17-21 (hex) FITRE S.p.A.
001721 (base 16) FITRE S.p.A.
Via Valsolda, 15
MILANO MI 20142
IT

00-17-34
(hex) ADC Telecommunications
001734 (base 16) ADC Telecommunications
541 E Trimble Road
San Jose California 95134-1224
US

00-17-2E (hex) FXC Inc.
00172E (base 16) FXC Inc.
10-16 6F, Nihonbashi Tomizawa-Chou, Chuo-ku
Tokyo 103-0006
JP

00-17-2B (hex) Global Technologies Inc.
00172B (base 16) Global Technologies Inc.
4/F Kicox Bldg.,188-5,Guro-Dong,Guro-gu,
Seoul 152-848
KR

00-16-F3 (hex) CAST Information Co., Ltd
0016F3 (base 16) CAST Information Co., Ltd
5F MSA Bldg. 891-43 Dacchi-Dong,
SEOUL 135-280
KR

00-16-F5 (hex) Dalian Golden Hualu Digital Technology Co.,Ltd
0016F5 (base 16) Dalian Golden Hualu Digital Technology Co.,Ltd
No.1 Hua Road,Qixianling
Dalian LiaoNing 116023
CN

00-17-3E (hex) LeucotronEquipamentos Ltda.
00173E (base 16) LeucotronEquipamentos Ltda.
Rua Jorge Dionisio Barbosa, 312
Santa Rita do Sapucai Minas Gerais 37.540-000
BR

00-17-1C

(hex) NT MicroSystems, Inc.
00171C (base 16) NT MicroSystems, Inc.
1-5-3-2F Tamagawadai
Setagaya Tokyo 158-0096
JP

00-17-16 (hex) Qno Technology Inc.
001716 (base 16) Qno Technology Inc.
6F-2, No.25, Puding Road
Hsinchu Taiwan 300
TW

00-16-F9 (hex) CETRTA POT, d.o.o., Kranj
0016F9 (base 16) CETRTA POT, d.o.o., Kranj
Planina 3
Kranj SI 4000
SI

00-17-0A (hex) INEW DIGITAL COMPANY
00170A (base 16) INEW DIGITAL COMPANY
Supply Bureau 3th floor KT&G 203-1,
Daejeon 306-712
KR

00-16-BD (hex) ATI Industrial Automation
0016BD (base 16) ATI Industrial Automation
1031 Goodworth Drive
Apex North Carolina 27539-3869
US

00-16-C0 (hex) Semtech Corporation
0016C0 (base 16) Semtech Corporation
200 Flynn Rd
Camarillo California 93012
US

00-16-C2 (hex) Avtec Systems Inc
0016C2 (base 16) Avtec Systems Inc
14432 Albemarle Point Place
Chantilly Virginia
20151
US

00-16-BA (hex) WEATHERNEWS INC.
0016BA (base 16) WEATHERNEWS INC.
NAKASE 1-3 MTG
CHIBA 262-0032
US

00-16-AF (hex) Shenzhen Union Networks Equipment Co.,Ltd.
0016AF (base 16) Shenzhen Union Networks Equipment Co.,Ltd.
Yihai Square east building 2307, Chuangye road, Nanshan District
Shenzhen Guangdong 518054
CN

00-16-9E (hex) TV One Ltd
00169E (base 16) TV One Ltd
Unit V Continental Approach
Margate Kent CT9 4JG
GB

00-16-9F (hex) Vimtron Electronics Co., Ltd.
00169F (base 16) Vimtron Electronics Co., Ltd.
7F., No.9, Alley 2, Lane 35
Neihu District Taipei City 11492
TW

00-16-8B (hex) Paralan Corporation
00168B (base 16) Paralan Corporation
455 Ruffner St.
San Diego CA 92111
US

00-16-82 (hex) OMS Motion
001682 (base 16) OMS Motion
15201 NW Greenbrier Pkwy, Ste. Suite B1
Beaverton OR 97006
US

00-16-9A (hex) Quadrics Ltd
00169A
(base 16) Quadrics Ltd
1 Bridewell Street
Bristol BS1 2AA
GB

00-16-92 (hex) Scientific-Atlanta, Inc.
001692 (base 16) Scientific-Atlanta, Inc.
5030 Sugarloaf Pkwy
Lawrenceville GA 30044
US

00-16-91 (hex) Moser-Baer AG
001691 (base 16) Moser-Baer AG
Spitalstrasse 7
Sumiswald BE 3454

CH

00-16-88 (hex) ServerEngines LLC
001688 (base 16) ServerEngines LLC
209 N. Fair Oaks Avenue
Sunnyvale CA 94085
US

00-16-B2 (hex) DriveCam Inc
0016B2 (base 16) DriveCam Inc
3954 Murphy Canyon Road
San Diego CA 92123
US

00-16-B3 (hex) Photonicbridges (China) Co., Ltd.
0016B3 (base 16) Photonicbridges (China) Co., Ltd.
No. 900, Yishan road,
Shanghai 200233
US

00-16-AD (hex) BT-Links Company Limited
0016AD (base 16) BT-Links Company Limited
Rm 802, Nan Fung Centre, 264-298 Castle Peak Rd

HK

00-16-DD (hex) Gigabeam Corporation
0016DD (base 16) Gigabeam
Corporation
407 Springpark Place
Herndon VA 20170
US

00-16-C8 (hex) Cisco Systems, Inc
0016C8 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-16-C4 (hex) SiRF Technology, Inc.
0016C4 (base 16) SiRF Technology, Inc.
217 Devcon Dr.
San Jose CA 95112
US

00-16-29 (hex) Nivus GmbH
001629 (base 16) Nivus GmbH
Im Täle 2

Eppingen Baden-Württemberg 75031
DE

00-16-21 (hex) Colorado Vnet
001621 (base 16) Colorado Vnet
255 E. 6th St.
Loveland CO 80537
US

00-16-1A (hex) Dametric AB
00161A (base 16) Dametric AB
Box 120
Skarholmen Stockholm SE-12723
SE

00-16-15 (hex) Nittan Company, Limited
001615 (base 16) Nittan Company, Limited
11-6, 1-chome, Hatagaya
Shibuya-ku Tokyo 151-8535
JP

00-16-2E (hex) Space Shuttle Hi-Tech Co., Ltd.
00162E (base 16) Space Shuttle Hi-Tech Co., Ltd.
No. 226, Wu-Ho St., Wu-Lung
Village,
Hsinchu Hsien 307
TW

00-16-2A (hex) Antik computers & communications s.r.o.
00162A (base 16) Antik computers & communications s.r.o.
Razusova 2
Kosice SK SK-04001
SK

00-16-6E (hex) Arbitron Inc.
00166E (base 16) Arbitron Inc.
9705 Patuxent Woods Drive
Columbia MD 21046
US

00-16-6A (hex) TPS
00166A (base 16) TPS
145 quai de Stalingrad
Issy Les Moulineaux Ile de France 92137
FR

00-16-63 (hex) KBT Mobile
001663 (base 16) KBT Mobile

4F, Polaris I, 15-3, Jeongja-dong, Bundang-gu
Seongnam-si, Gyeonggi-do 463-811
KR

00-16-54 (hex) Flex-P Industries Sdn. Bhd.
001654 (base 16) Flex-P Industries Sdn. Bhd.
No.128-12-2, Menara UMNO,
Georgetown Penang 10400
US

00-16-56 (hex) Nintendo Co., Ltd.
001656 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

00-16-06 (hex) Ideal Industries
001606 (base
16) Ideal Industries
15070 Ave. of Science #200
San Diego CA 92128
US

00-16-07 (hex) Curves International Inc.
001607 (base 16) Curves International Inc.
100 Ritchie Road
Waco Texas 76712
US

00-16-0A (hex) SWEEX Europe BV
00160A (base 16) SWEEX Europe BV
Ampereweg 3
Delft Zuid-Holland 2627 BG
NL

00-16-02 (hex) CEYON TECHNOLOGY CO.,LTD.
001602 (base 16) CEYON TECHNOLOGY CO.,LTD.
13F Samsung Insurance B/D. #942-9
Suwon-City Gyeonggi-Do 442-832
KR

00-16-00 (hex) CelleBrite Mobile Synchronization
001600 (base 16) CelleBrite Mobile Synchronization
25 Basel St
Petach Tikva 49170
IL

00-15-F4 (hex) Eventide

0015F4 (base 16) Eventide
1 Alsan Way
Little Ferry NJ 07643
US

00-15-ED (hex) Fulcrum Microsystems, Inc.
0015ED (base 16) Fulcrum Microsystems, Inc.
26630 Agoura Road
Calabasas CA 91302
US

00-16-51 (hex) Exeo Systems
001651 (base
16) Exeo Systems
1650, rue Michelin, suite 201
Laval Québec H7L 4R3
CA

00-16-4B (hex) Quorion Data Systems GmbH
00164B (base 16) Quorion Data Systems GmbH
An der Klinge 6
Erfurt Thuringia 99095
DE

00-16-17 (hex) MSI
001617 (base 16) MSI
No.69, Li-De St, Jung-Ho City
Taipei Hsien 235
TW

00-16-10 (hex) Carina Technology
001610 (base 16) Carina Technology
690A Discovery Drive
Huntsville AL 35806
US

00-16-31 (hex) Xteam
001631 (base 16) Xteam
room 801, No.102 international Science & Techology Park
Beijing 8610
CN

00-15-F0 (hex) EGO BV
0015F0 (base 16) EGO BV
Parade 15
's-Hertogenbosch Noord-Brabant 5211KL
NL

00-15-EE (hex) Omnex Control Systems
0015EE (base 16) Omnex Control Systems
#74 - 1833 Coast Meridian Rd.
Port Coquitlam BC V3C 6G5
CA

00-15-94 (hex) BIXOLON CO.,LTD
001594 (base 16) BIXOLON CO.,LTD
502-508,Digital Empire
Bldg.
Yeongtong-Gu,Suwon Gyeonggi-Do 443-813
KR

00-15-90 (hex) Hectronic GmbH
001590 (base 16) Hectronic GmbH
Allmendstraße 15
Bonndorf Baden-Württemberg 79848
DE

00-15-8C (hex) Liab ApS
00158C (base 16) Liab ApS
Oestre Alle 6
Stoevring DK-9530
DK

00-15-8F (hex) NTT Advanced Technology Corporation
00158F (base 16) NTT Advanced Technology Corporation
Shinjuku Mitsui Bldg. 2-1-1, Nishi-shinjuku,
Shinjuku-ku Tokyo 163-0431
JP

00-15-C8 (hex) FlexiPanel Ltd
0015C8 (base 16) FlexiPanel Ltd
7 bis rue Lalo
Paris 75016
FR

00-15-C0 (hex) DIGITAL TELEMEDIA CO.,LTD.
0015C0 (base 16) DIGITAL TELEMEDIA CO.,LTD.
17TH FLOOR, CHINA YUSE BUILDING,
SHENZHEN GUANGDONG 518040
CN

00-15-C2 (hex) 3M Germany
0015C2 (base 16) 3M Germany
Carl Schurz Str. 1
Neuss NRW 41453
US

00-15-83 (hex) IVT corporation
001583 (base 16) IVT corporation
Shangdi Xinxi
road, Haidian District
Beijing 100085
US

00-15-88 (hex) Salutica Allied Solutions Sdn Bhd
001588 (base 16) Salutica Allied Solutions Sdn Bhd
3 Jalan Zarib 6
Lahat, Ipoh Perak 31500
MY

00-15-85 (hex) Aonvision Technolopy Corp.
001585 (base 16) Aonvision Technolopy Corp.
2F, No. 58, Park 2nd Ave. Science-Based Industrial Park,
Hsinchu 300
TW

00-15-A5 (hex) DCI Co., Ltd.
0015A5 (base 16) DCI Co., Ltd.
4th Fl. Susung B/D, 893-4
Daejeon 305-330
KR

00-15-79 (hex) Lunatone Industrielle Elektronik GmbH
001579 (base 16) Lunatone Industrielle Elektronik GmbH
Rennbahnweg 55
Wien 1220
AT

00-15-6B (hex) Perfisans Networks Corp.
00156B (base 16) Perfisans Networks Corp.
4118 14th Avenue
Markham Ontario L3R 0J3
CA

00-15-66 (hex) A-First Technology Co., Ltd.
001566 (base 16) A-First Technology Co., Ltd.
5F, No. 111-2, Shin-Teh Rd.,
San-Chung City Taipei Shien
241
TW

00-15-B2 (hex) Advanced Industrial Computer, Inc.
0015B2 (base 16) Advanced Industrial Computer, Inc.
17970 E. Ajax Circle

City of Industry CA 91748
US

00-15-DA (hex) IRITEL A.D.
0015DA (base 16) IRITEL A.D.
Batajnicki put 23
Beograd Serbia 11080
YU

00-15-0E (hex) OPENBRAIN TECHNOLOGIES CO., LTD.
00150E (base 16) OPENBRAIN TECHNOLOGIES CO., LTD.
#804,ANYANG K-CENTER,1591-9 , BURIM-DONG,DONGAN-GU,
ANYANG KYUNGGI-DO 431-815
KR

00-15-0D (hex) Hoana Medical, Inc.
00150D (base 16) Hoana Medical, Inc.
828 Fort Street Mall
Honolulu HI 96813
US

00-15-06 (hex) Neo Photonics
001506 (base 16) Neo Photonics
910 E. California St.
Sunnyvale CA 94085
US

00-15-04 (hex) GAME PLUS CO., LTD.
001504 (base 16) GAME PLUS CO., LTD.
164-57, Yeonghwa-dong, Jangan-gu
Suwon Gyeonggi-do 440-818
KR

00-15-05 (hex) Actiontec Electronics, Inc
001505 (base 16) Actiontec
Electronics, Inc
3301 Olcott St.
Santa Clara CA 95054
US

00-14-FE (hex) Artech Electronics
0014FE (base 16) Artech Electronics
#301, Yangjae Bldg., 276-2
Seoul 137-895
KR

00-15-39 (hex) Technodrive srl
001539 (base 16) Technodrive srl

Via Leonardo da Vinci 162
Trezzano S/N Milan 20090
IT

00-15-31 (hex) KOCOM
001531 (base 16) KOCOM
5F, KOCOM Bldg., 260-7
SEOUL 157-040
KR

00-15-35 (hex) OTE Spa
001535 (base 16) OTE Spa
via Barsanti 8
Florence FI 50127
IT

00-15-36 (hex) Powertech co.,Ltd
001536 (base 16) Powertech co.,Ltd
#705, dongyoung Venturestel, 199-32
Anyang City Kyoungki-do 430-010
US

00-15-2B (hex) Cisco Systems, Inc
00152B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-15-2C (hex) Cisco Systems, Inc
00152C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-15-28
(hex) Beacon Medical Products LLC d.b.a. BeaconMedaes
001528 (base 16) Beacon Medical Products LLC d.b.a. BeaconMedaes
14408 W 105TH ST
LENEXA KS 66215
US

00-15-4A (hex) WANSHIH ELECTRONIC CO., LTD
00154A (base 16) WANSHIH ELECTRONIC CO., LTD
3F 72, WU KONG 6th RD.,
TAIPEI HSIEN TAIWAN 248
TW

00-15-4C (hex) Saunders Electronics

00154C (base 16) Saunders Electronics
192 Gannett Drive
South Portland ME 04106
US

00-15-4D (hex) Netronome Systems, Inc.
00154D (base 16) Netronome Systems, Inc.
3159 Unionville Road
Cranberry Twp. PA 16066
US

00-15-49 (hex) Dixtal Biomedica Ind. Com. Ltda
001549 (base 16) Dixtal Biomedica Ind. Com. Ltda
R. Eng. Francisco Pitta Brito, 703
São Paulo SP 04753-080
BR

00-15-47 (hex) AiZen Solutions Inc.
001547 (base 16) AiZen Solutions Inc.
10F-1, No.29, Puding Rd.
Hsinchu Hsinchu County 300
TW

00-15-27 (hex) Balboa
Instruments
001527 (base 16) Balboa Instruments
1382 Bell Ave
Tustin CA 92780
US

00-15-21 (hex) Horoquartz
001521 (base 16) Horoquartz
BP 251
FONTENAY LE COMTE VENDEE 85205
FR

00-15-20 (hex) Radiocrafts AS
001520 (base 16) Radiocrafts AS
Sandakerveien 64
Oslo 0484
NO

00-15-1C (hex) LENECO
00151C (base 16) LENECO
6th.,Dong Moon Good Morning Tower 1
Kyeong Ki-Do GoYang-Si 411-817
KR

00-15-3D (hex) ELIM PRODUCT CO.
00153D (base 16) ELIM PRODUCT CO.
602-2 GAYANG TECHNO TOWN, GAYANG, 3-DONG
SEOUL 157-793
KR

00-15-44 (hex) coM.s.a.t. AG
001544 (base 16) coM.s.a.t. AG
Besselstraße 3
Mannheim D-68219
US

00-15-19 (hex) StoreAge Networking Technologies
001519 (base 16) StoreAge Networking Technologies
63 Bar-Yehuda st.
Nesher 36651
IL

00-15-11 (hex) Data Center Systems
001511 (base 16) Data Center Systems
14802 Venture
Drive
Dallas TX 75234
US

00-14-E6 (hex) AIM Infrarotmodule GmbH
0014E6 (base 16) AIM Infrarotmodule GmbH
Soeflingerstraße 100
Ulm BW 89077
DE

00-14-F3 (hex) ViXS Systems Inc
0014F3 (base 16) ViXS Systems Inc
2235 Sheppard Ave East
TORONTO ONTARIO M2J 5B5
CA

00-14-89 (hex) B15402100 - JANDEI, S.L.
001489 (base 16) B15402100 - JANDEI, S.L.
POL. IND. POCOMACO, E-28
LA Coruña 15190
ES

00-14-80 (hex) Hitachi-LG Data Storage Korea, Inc
001480 (base 16) Hitachi-LG Data Storage Korea, Inc
19-1,Cheongho-ri
Pyungtaik Kyunggi-Do 451-713
KR

00-14-BE (hex) Wink communication technology CO.LTD
0014BE (base 16) Wink communication technology CO.LTD
Huijiang Ind Blding Dashi Town
Guang zhou Guang dong 511430
CN

00-14-BA (hex) Carvers SA de CV
0014BA (base 16) Carvers SA de CV
Alvarez del Castillo 1550
Guadalajara Jalisco 44620
MX

00-14-7E (hex) InnerWireless
00147E
(base 16) InnerWireless
1155 Kas Drive, Suite 200
Richardson TX 75081
US

00-14-7D (hex) Aeon Digital International
00147D (base 16) Aeon Digital International
31-6, The Bund Center
Shanghai SH 200002
CN

00-14-76 (hex) MultiCom Industries Limited
001476 (base 16) MultiCom Industries Limited
Room 1206-7, Manhattan Center,
Kwai Chung, N.T.
HK

00-14-73 (hex) Bookham Inc
001473 (base 16) Bookham Inc
10 Brewer Hunt Way
Kanata ON K2K 2B5
CA

00-14-D7 (hex) Datastore Technology Corp
0014D7 (base 16) Datastore Technology Corp
9F, NO.10, SEC.1, Chung Hsing RD., Wu-Ku
Taipei Hsien, 248
TW

00-14-DD (hex) Covergence Inc.
0014DD (base 16) Covergence Inc.
One Clock Tower Place, Suite 200
Maynard MA 01754

US

00-14-D4 (hex) K Technology Corporation
0014D4 (base 16) K Technology Corporation
325 Ganbara
Kami-gun Miyagi-ken 981-4263
JP

00-14-CF
(hex) INVISIO Communications
0014CF (base 16) INVISIO Communications
Stamholmen 157
Hvidovre 2650
DK

00-14-6E (hex) H. Stoll GmbH & Co. KG
00146E (base 16) H. Stoll GmbH & Co. KG
Stollweg
Reutlingen Deutschland 72760
DE

00-14-69 (hex) Cisco Systems, Inc
001469 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-14-B6 (hex) Enswer Technology Inc.
0014B6 (base 16) Enswer Technology Inc.
1F No.70 Sec.2 Chung Shun St.
Taipei 116
TW

00-14-B2 (hex) mCubelogics Corporation
0014B2 (base 16) mCubelogics Corporation
4F, Unibooks B/D, 514-1, Dogok-Dong, KangNam
Seoul 135-270
KR

00-14-AE (hex) Wizlogics Co., Ltd.
0014AE (base 16) Wizlogics Co., Ltd.
Rm#1321, Samchang Plaza, 173,
Seoul 121-745
KR

00-14-DE (hex) Sage Instruments Inc.
0014DE (base 16) Sage Instruments Inc.
240 Airport Blvd.

Freedom CA 95019
US

00-14-DF
(hex) HI-P Tech Corporation
0014DF (base 16) HI-P Tech Corporation
1-27-23 Higashitokorozawa
Tokorozawa Saitama 359-0021
JP

00-14-A6 (hex) Teranetics, Inc.
0014A6 (base 16) Teranetics, Inc.
3965 Freedom Circle
Santa Clara CA 95054
US

00-14-AA (hex) Ashly Audio, Inc.
0014AA (base 16) Ashly Audio, Inc.
847 Holt Road
Webster NY 14580
US

00-14-8A (hex) Elin Ebg Traction Gmbh
00148A (base 16) Elin Ebg Traction Gmbh
Cumberlandstrasse 32
Vienna 1140
AT

00-13-FD (hex) Nokia Danmark A/S
0013FD (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-14-00 (hex) MINERVA KOREA CO., LTD
001400 (base 16) MINERVA KOREA CO., LTD
#203, SH Sienne, Seohyeon-Dong
Seongnam-Si Gyeonggi-Do 463-821
KR

00-13-FC (hex) SiCortex, Inc
0013FC (base 16) SiCortex, Inc
One Clocktower Place
Maynard MA 01754
US

00-13-F6 (hex) Cintech
0013F6

(base 16) Cintech
21a route de la wantzenau
Hoenheim 67800
FR

00-13-F3 (hex) Giga-byte Communications Inc.
0013F3 (base 16) Giga-byte Communications Inc.
8F, No.43, Fu-Hsin Road. Hsin-Tien
Taipei Hsien 231
TW

00-14-4F (hex) Oracle Corporation
00144F (base 16) Oracle Corporation
500 Oracle Parkway
Redwood Shores CA 94065
US

00-14-56 (hex) Edge Products
001456 (base 16) Edge Products
1080 South Depot Drive
Ogden Utah 84404
US

00-14-50 (hex) Heim Systems GmbH
001450 (base 16) Heim Systems GmbH
Friedrich Ebert Strasse
Bergisch Gladbach NRW 51429
DE

00-14-52 (hex) CALCULEX,INC.
001452 (base 16) CALCULEX,INC.
132 W. LAS CRUCES AVE.
LAS CRUCES NEW MEXICO 88001
US

00-14-42 (hex) ATTO CORPORATION
001442 (base 16) ATTO CORPORATION
1-25-23 Hongo,
Tokyo 113-8425
JP

00-13-DA (hex) Diskware Co., Ltd
0013DA (base 16) Diskware
Co., Ltd
1-4-12 Kiba
Koto-ku Tokyo 135-0042
JP

00-13-D8 (hex) Princeton Instruments
0013D8 (base 16) Princeton Instruments
3660 Quakerbridge Road
Trenton NJ 08619
US

00-13-CB (hex) Zenitel Norway AS
0013CB (base 16) Zenitel Norway AS
Sandaker v 24 c
Oslo 0403
NO

00-14-09 (hex) MAGNETI MARELLI S.E. S.p.A.
001409 (base 16) MAGNETI MARELLI S.E. S.p.A.
ZI Nord, Allee d'Argenson
CHATELLERAULT 86100
FR

00-14-0B (hex) FIRST INTERNATIONAL COMPUTER, INC.
00140B (base 16) FIRST INTERNATIONAL COMPUTER, INC.
FIC BUILDING, NO.300, YANG GUANG ST.,
TAIPEI COUNTY 114
TW

00-14-47 (hex) BOAZ Inc.
001447 (base 16) BOAZ Inc.
282 Pukok-ri SongSan-myon Dangzin-gun Chungcheongnam-do, 343-834
Seoul SeoCho-gu 137-070
KR

00-14-3E (hex) AirLink Communications, Inc.
00143E (base 16) AirLink Communications, Inc.
3159 Corporate Place
Hayward CA 94545
US

00-14-3B
(hex) Sensovation AG
00143B (base 16) Sensovation AG
Markhallen -Str
Radolfzell Baden-Württemberg 78315
DE

00-14-5D (hex) WJ Communications, Inc.
00145D (base 16) WJ Communications, Inc.
401 River Oaks Parkway
San Jose CA 95134
US

00-14-2D (hex) Toradex AG
00142D (base 16) Toradex AG
Altsagenstrasse 5
Horw LU 6048
CH

00-14-29 (hex) V Center Technologies Co., Ltd.
001429 (base 16) V Center Technologies Co., Ltd.
7F-7, NO.35, Hsintai Rd.
Jubei City Hsinchu 302
TW

00-14-1E (hex) P.A. Semi, Inc.
00141E (base 16) P.A. Semi, Inc.
3965 Freedom Circle, Fl 8
Santa Clara CA 95054
US

00-14-14 (hex) Jumpnode Systems LLC.
001414 (base 16) Jumpnode Systems LLC.
800 Washington Ave N.
Minneapolis MN 55041
US

00-13-F4 (hex) Psitek (Pty) Ltd
0013F4 (base 16) Psitek (Pty) Ltd
The Vineyards Office Estate
Tyger Valley Cape Town 7530
ZA

00-13-E9
(hex) VeriWave, Inc.
0013E9 (base 16) VeriWave, Inc.
9600 SW Oak St.
Portland OR 97223
US

00-13-5F (hex) Cisco Systems, Inc
00135F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-13-56 (hex) FLIR Radiation Inc
001356 (base 16) FLIR Radiation Inc
100 Midland Rd
Oak Ridge TN 37830

US

00-13-5A (hex) Project T&E Limited
00135A (base 16) Project T&E Limited
Room 3C, 2/F. Wah Shing Center,
Kwun Tong, Kowloon, 852
HK

00-13-61 (hex) Biospace Co., Ltd.
001361 (base 16) Biospace Co., Ltd.
10th Floor, Poonglim Bldg, 823 Yeoksam 1-dong
Gangnam-gu Seoul 135-784
KR

00-13-62 (hex) ShinHeung Precision Co., Ltd.
001362 (base 16) ShinHeung Precision Co., Ltd.
DaeHa Bldg. 401
YoungDungPoGu Seoul 150-050
KR

00-13-4F (hex) Rapidus Wireless Networks Inc.
00134F (base 16) Rapidus Wireless Networks Inc.
47 - 14550 Morris Valley
Road
Agassiz British Columbia V0M 1A1
CA

00-13-78 (hex) Qsan Technology, Inc.
001378 (base 16) Qsan Technology, Inc.
4F., No.103, Ruihu St., Neihu Dist.
Taipei 114
TW

00-13-7A (hex) Netvox Technology Co., Ltd.
00137A (base 16) Netvox Technology Co., Ltd.
No.21-1 Sec. 1 Chung Hua West Road
Tainan 702
TW

00-13-81 (hex) CHIPS & Systems, Inc.
001381 (base 16) CHIPS & Systems, Inc.
4750 Patrick Henry Drive
Santa Clara California 95054
US

00-13-79 (hex) PONDER INFORMATION INDUSTRIES LTD.
001379 (base 16) PONDER INFORMATION INDUSTRIES LTD.
14F,No.77,lane700, Chung-Cheng Road

Hsin-Tien City Taipei Hsien 231
TW

00-13-74 (hex) Atheros Communications, Inc.
001374 (base 16) Atheros Communications, Inc.
529 Almanor Avenue
Sunnyvale CA 94085-3512
US

00-13-CF (hex) 4Access Communications
0013CF (base 16) 4Access Communications
1 N. LaSalle St.
Chicago IL
60602
US

00-13-C9 (hex) Beyond Achieve Enterprises Ltd.
0013C9 (base 16) Beyond Achieve Enterprises Ltd.
XIN LIAN HI-TECH INDUSTRIAL AREA, HU-MEN
DONGGUAN GUANG DONG
CN

00-13-C6 (hex) OpenGear, Inc
0013C6 (base 16) OpenGear, Inc
7984 South Welby Park #101
Salt Lake City UTAH 84088
US

00-13-69 (hex) Honda Electron Co., LED.
001369 (base 16) Honda Electron Co., LED.
Kanematsu Building 3 Floor
Chuo-ku Tokyo 104-0031
JP

00-13-67 (hex) Narayon. Co., Ltd.
001367 (base 16) Narayon. Co., Ltd.
#502 Hyochang T/W 181-3
Seoul 138-220
KR

00-13-5C (hex) OnSite Systems, Inc.
00135C (base 16) OnSite Systems, Inc.
3900 Freedom Circle
Santa Clara CA 95054-1222
US

00-13-AC (hex) Sunmyung Electronics Co., LTD
0013AC (base 16) Sunmyung Electronics Co., LTD

LARGO-PLAZA 8F, Janghang-Dong
Koyang Kyungki 411-837
KR

00-13-A8 (hex) Tanisys Technology
0013A8 (base
16) Tanisys Technology
11001 Lakeline blvd
Austin TX 78717
US

00-13-99 (hex) STAC Corporation.
001399 (base 16) STAC Corporation.
2-16-37 fujimi
sayama-shi saitama 350-1306
JP

00-13-95 (hex) congatec GmbH
001395 (base 16) congatec GmbH
Auwiesenstrasse 5
Deggendorf 94469
DE

00-13-B9 (hex) BM SPA
0013B9 (base 16) BM SPA
VIA MILANO 54/56
Rozzano 20089
IT

00-13-AB (hex) Telemotive AG
0013AB (base 16) Telemotive AG
Breitwiesen
Muehlhausen Baden Wuerttemberg 73347
DE

00-13-BE (hex) Virtual Conexions
0013BE (base 16) Virtual Conexions
410 rue St-Nicolas, suite 600
Montréal QUÉBEC H2Y 2P5
CA

00-12-E8 (hex) Fraunhofer IMS
0012E8 (base 16) Fraunhofer IMS
Finkenstrasse 61
Duisburg NRW 47057
DE

00-12-DD (hex) Shengqu Information Technology (Shanghai) Co., Ltd.

0012DD (base 16) Shengqu Information Technology (Shanghai) Co., Ltd.
No.1
Building,No. 690 Bibo Road,Pudong New Area
Shanghai 201203
CN

00-12-E0 (hex) Codan Limited
0012E0 (base 16) Codan Limited
Technology Park, 2 Second Avenue
Mawson Lakes SA 5095
AU

00-12-DE (hex) Radio Components Sweden AB
0012DE (base 16) Radio Components Sweden AB
Viderogatan 3B
Kista 16422
SE

00-13-18 (hex) DGSTATION Co., Ltd.
001318 (base 16) DGSTATION Co., Ltd.
Rm.401, Bldg.A, Bundang Techno Park 150, Yatap-Dong, Bundang-Gu, Sungnam-Si, Gyunggi-Do, 463-760, Korea
Sungnam Gyunggi 463-760
KR

00-13-1A (hex) Cisco Systems, Inc
00131A (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-13-0C (hex) HF System Corporation
00130C (base 16) HF System Corporation
1520-1 Ayukai
Nishiokitama-Gun Yamagata-Ken 992-0771
JP

00-13-0F (hex) EGEMEN Bilgisayar Muh San ve Tic LTD STI
00130F (base 16) EGEMEN Bilgisayar Muh San ve Tic LTD STI
Fevzi
Cakmak 2 Sok 31/A
ANKARA CANKAYA 06440
TR

00-13-2D (hex) iWise Communications
00132D (base 16) iWise Communications
Unit 3C, Arden Grove
Cape Town 7441
ZA

00-13-2C (hex) MAZ Brandenburg GmbH
00132C (base 16) MAZ Brandenburg GmbH
Pascalstraße 10a
Berlin Berlin 10587
DE

00-13-24 (hex) Schneider Electric Ultra Terminal
001324 (base 16) Schneider Electric Ultra Terminal
Industriparken 32
Copenhagen 2750
DK

00-13-26 (hex) ECM Systems Ltd
001326 (base 16) ECM Systems Ltd
Ellifoot Park
HULL East Yorkshire HU12 9DZ
GB

00-13-27 (hex) Data Acquisitions limited
001327 (base 16) Data Acquisitions limited
84 Gasson street
Christchurch
NZ

00-13-1D (hex) Scanvaegt International A/S
00131D (base 16) Scanvaegt International A/S
P.O.Pedersens vej 18
Aarhus Jylland 8200 N
DK

00-13-01 (hex) IronGate S.L.
001301 (base 16) IronGate S.L.
C\Alcala
268, primera planta
Madrid 28027
ES

00-12-F6 (hex) MDK CO.,LTD.
0012F6 (base 16) MDK CO.,LTD.
2-6-27 Ibarame
Kashiwazaki City Niigata 9451341
JP

00-12-F4 (hex) Belco International Co.,Ltd.
0012F4 (base 16) Belco International Co.,Ltd.
212, Yeokok-Dong, Wonmi-gu
Puchun-Si Kyongki-Do 420-100

KR

00-12-F1 (hex) IFOTEC
0012F1 (base 16) IFOTEC
ZAC Champfeuillet
VOIRON 38507
FR

00-12-F5 (hex) Imarda New Zealand Limited
0012F5 (base 16) Imarda New Zealand Limited
Suite G16, National Innovation Centre,
Eveleigh NSW 2015
NZ

00-13-13 (hex) GuangZhou Post & Telecom Equipment ltd
001313 (base 16) GuangZhou Post & Telecom Equipment ltd
139# Zhongshan Ave
Guangzhou Guangdong 510630
CN

00-12-F8 (hex) WNI Resources, LLC
0012F8 (base 16) WNI Resources, LLC
2146 Bering Drive
San Jose California 95131-2013
US

00-13-3B (hex) Speed Dragon Multimedia
Limited
00133B (base 16) Speed Dragon Multimedia Limited
Room 1312, Vanta Industrial Centre,
Kwai Chung N.T.
HK

00-13-38 (hex) FRESENIUS-VIAL
001338 (base 16) FRESENIUS-VIAL
Le Grand Chemin
BREZINS 38590
FR

00-13-42 (hex) Vision Research, Inc.
001342 (base 16) Vision Research, Inc.
190 Parish Drive
Wayne NJ 07470
US

00-12-CB (hex) CSS Inc.
0012CB (base 16) CSS Inc.
151 Superior Blvd.

Mississauga Ontario L5T2L1
CA

00-12-CE (hex) Advanced Cybernetics Group
0012CE (base 16) Advanced Cybernetics Group
2953 Bunker Hill Lane
Santa Clara CA 95054
US

00-12-CA (hex) Mechatronic Brick Aps
0012CA (base 16) Mechatronic Brick Aps
Alsion 2
6400 Sonderborg
DK

00-12-C7 (hex) SECURAY Technologies Ltd.Co.
0012C7 (base 16) SECURAY Technologies Ltd.Co.
Tianjin Haitai Industrial Base ErWei Road
Tianjin 300384
CN

00-12-CD (hex) ASEM SpA
0012CD
(base 16) ASEM SpA
Via Buia, 4
ARTEGNA Udine I-33011
IT

00-12-6A (hex) OPTOELECTRONICS Co., Ltd.
00126A (base 16) OPTOELECTRONICS Co., Ltd.
3-1Kamiaokinishi 1-chome
Kawaguchi Saitama Pref. 333-0845
JP

00-12-68 (hex) IPS d.o.o.
001268 (base 16) IPS d.o.o.
C. Ljubljanske brigade 17
Ljubljana SI-1000
SI

00-12-66 (hex) Swisscom Hospitality Services SA
001266 (base 16) Swisscom Hospitality Services SA
Chemin de l'Etang 65
1211 Geneva
CH

00-12-AB (hex) WiLife, Inc.
0012AB (base 16) WiLife, Inc.

132 E. 13065 S., Suite 150
Draper UT 84020
US

00-12-AC (hex) ONTIMETEK INC.
0012AC (base 16) ONTIMETEK INC.
9Fl.,Owner's Tower
Sungnam-Si Kyunggi-Do 463-825
KR

00-12-C0 (hex) HotLava Systems, Inc.
0012C0 (base 16) HotLava Systems, Inc.
6329 Chelton Drive
Oakland CA 94611
US

00-12-B7 (hex) PTW Freiburg
0012B7 (base 16) PTW Freiburg
Loerracher
Strasse 7
Freiburg 79115
DE

00-12-BC (hex) Echolab LLC
0012BC (base 16) Echolab LLC
267 Boston Road
Billerica MA 01862
US

00-12-BD (hex) Avantec Manufacturing Limited
0012BD (base 16) Avantec Manufacturing Limited
Unit L, 7/F, Camelpaint Bldg, Block 3
852
HK

00-12-7C (hex) SWEGON AB
00127C (base 16) SWEGON AB
Box 300
KVÄNUM VÄSTRA GÖTALAND SE 535 23
SE

00-12-78 (hex) International Bar Code
001278 (base 16) International Bar Code
160 Oak Street
Glastonbury CT 06033
US

00-12-7A (hex) Sanyu Industry Co.,Ltd.

00127A (base 16) Sanyu Industry Co.,Ltd.
Midori-ku Hakusan1-11-11
Yokohama-shi Kanagawa-ken 226-0006
JP

00-12-72 (hex) Redux Communications Ltd.
001272 (base 16) Redux Communications Ltd.
POB 101
Modiin 71700
IL

00-12-9B (hex) E2S Electronic Engineering Solutions, S.L.
00129B (base 16) E2S Electronic Engineering
Solutions, S.L.
Sant Ferran 10
Barcelona 08031
ES

00-12-98 (hex) MICO ELECTRIC(SHENZHEN) LIMITED
001298 (base 16) MICO ELECTRIC(SHENZHEN) LIMITED

SHENZHEN GUANGDONG 518040
CN

00-12-A1 (hex) BluePacket Communications Co., Ltd.
0012A1 (base 16) BluePacket Communications Co., Ltd.
10F-1, No. 420, Sec. 1, Keelung Rd., 110,
Taipei 110
TW

00-12-21 (hex) B.Braun Melsungen AG
001221 (base 16) B.Braun Melsungen AG
Schwarzenberger Weg 73-79
Melsungen Hessen 34212
DE

00-12-12 (hex) PLUS Corporation
001212 (base 16) PLUS Corporation
1033-1, Oshitate
Inagi-shi Tokyo 206-0811
JP

00-12-13 (hex) Metrohm AG
001213 (base 16) Metrohm AG
Oberdorfstrasse 68
Herisau AR 9101
CH

00-12-18 (hex) ARUZE Corporation
001218 (base 16) ARUZE Corporation
Ariake Frontier Building A
Kohtoh-ku Tokyo 135-0063
JP

00-12-06 (hex) iQuest (NZ) Ltd
001206 (base 16) iQuest
(NZ) Ltd
P.O.Box 15169
Hamilton Waikato 3243
NZ

00-12-07 (hex) Head Strong International Limited
001207 (base 16) Head Strong International Limited
Unit 9, 20/F, Metropole Square,
Guangdong
HK

00-12-09 (hex) Fastrax Ltd
001209 (base 16) Fastrax Ltd
Valimotie 7
Vantaa FI 01510
FI

00-12-4D (hex) Inducon BV
00124D (base 16) Inducon BV
Kerklaan 26
Leimuiden ZH 2541 CG
NL

00-12-38 (hex) SetaBox Technology Co., Ltd.
001238 (base 16) SetaBox Technology Co., Ltd.
9F-1, No. 293-3, Sec2, Fu-Hsing S. Rd.
Taipei 106
TW

00-12-3C (hex) Second Rule LLC
00123C (base 16) Second Rule LLC
4119 Walnut Street
Philadelphia PA 19104
US

00-12-3E (hex) ERUNE technology Co., Ltd.
00123E (base 16) ERUNE technology Co., Ltd.
No. 429, Chin-San 2nd street,
Tao Yuan 326
TW

00-11-E3 (hex) Thomson, Inc.
0011E3 (base 16) Thomson, Inc.
101 West 103rd
Street
Indianapolis IN 46290
US

00-11-DC (hex) Glunz & Jensen
0011DC (base 16) Glunz & Jensen
Selandia Park 1
Ringsted 4100
DK

00-12-5E (hex) CAEN
00125E (base 16) CAEN
via Vetraia, 11
Viareggio LUCCA 55049
IT

00-12-5D (hex) CyberNet Inc.
00125D (base 16) CyberNet Inc.
#205, Lotte Suntech City, 513-15
Sungnam Kyunggi 462-806
KR

00-12-54 (hex) Spectra Technologies Holdings Company Ltd
001254 (base 16) Spectra Technologies Holdings Company Ltd
Unit 1301-09, Tower II
852
HK

00-12-4F (hex) nVent
00124F (base 16) nVent
1665 Utica Avenue, Suite 700
St Louis Park MN 55416
US

00-12-49 (hex) Delta Elettronica S.p.A.
001249 (base 16) Delta Elettronica S.p.A.
Via Astico 41
Varese 21100
IT

00-12-3A (hex) Posystech Inc., Co.
00123A (base 16) Posystech Inc., Co.
Room 407, Daeryung Techno Town 6,
Seoul 153-771

KR

00-12-34
(hex) Camille Bauer
001234 (base 16) Camille Bauer
Aargauerstr. 7
Wohlen AG 5610
CH

00-11-F7 (hex) Shenzhen Forward Industry Co., Ltd
0011F7 (base 16) Shenzhen Forward Industry Co., Ltd
4b1 F5.8, Tian An Cyber Park, Chengongmiao,
Shenzhen Guangdong 518040
CN

00-12-0B (hex) Chinasys Technologies Limited
00120B (base 16) Chinasys Technologies Limited
10/F,CAGW Building,No.30 Haidian South Road
Beijing 100080
CN

00-12-05 (hex) Terrasat Communications, Inc.
001205 (base 16) Terrasat Communications, Inc.
235 Vineyard Court, suite 100
Morgan Hill California 95037
US

00-12-23 (hex) Pixim
001223 (base 16) Pixim
915 Linda Vista Ave.
Mountain View CA 94043
US

00-11-90 (hex) Digital Design Corporation
001190 (base 16) Digital Design Corporation
3820 Ventura Drive
Arlington Heights IL 60004
US

00-11-96 (hex) Actuality Systems, Inc.
001196 (base 16) Actuality
Systems, Inc.
25 Corporate Drive
Burlington MA 01803
US

00-11-87 (hex) Category Solutions, Inc
001187 (base 16) Category Solutions, Inc

1021 W. Adams St
Chicago IL 60607
US

00-11-71 (hex) DEXTER Communications, Inc.
001171 (base 16) DEXTER Communications, Inc.
2F Shinsung B/D 404-1
Sungnam Gyunggi 463-420
KR

00-11-67 (hex) Integrated System Solution Corp.
001167 (base 16) Integrated System Solution Corp.
3F, No. 2-1, industry East Rd., I
Hsinchu 300
TW

00-11-6D (hex) American Time and Signal
00116D (base 16) American Time and Signal
140 Third St. South
Dassel MN 55325
US

00-11-60 (hex) ARTDIO Company Co., LTD
001160 (base 16) ARTDIO Company Co., LTD
7th FL.., No.476, Min-Hu RD., Hsin-Chu,
Hsinchu 300
TW

00-11-54 (hex) Webpro Technologies Inc.
001154 (base 16) Webpro Technologies Inc.
2F-1, No.81, Sec. 4, Chungching N. Rd.,
Taipei
111
TW

00-11-A5 (hex) Fortuna Electronic Corp.
0011A5 (base 16) Fortuna Electronic Corp.
3F, No.9, Sec.1, ChangAn East Rd.,
Taipei 104
TW

00-11-C4 (hex) Terminales de Telecomunicacion Terrestre, S.L.
0011C4 (base 16) Terminales de Telecomunicacion Terrestre, S.L.
Poligono Europolis, Calle C 26
Las Rozas Madrid 28230
ES

00-11-CB (hex) Jacobsons AB

0011CB (base 16) Jacobsons AB
Nedralid s 32
Motala 591 97
SE

00-11-7B (hex) Büchi Labortechnik AG
00117B (base 16) Büchi Labortechnik AG
Meierseggstrasse 40
Flawil 9230 SG
CH

00-11-6F (hex) Netforyou Co., LTD.
00116F (base 16) Netforyou Co., LTD.
1121-4 3F, Kwanyang-dong, Dongan-gu
Anyang-si Kyunggi-do 431-804
KR

00-11-51 (hex) Mykotronx
001151 (base 16) Mykotronx
359 Van Ness Way
Torrance CA 90501
US

00-11-4E (hex) 690885 Ontario Inc.
00114E (base 16) 690885 Ontario Inc.
205 Annagem Blvd.
Mississauga
Ontario L5T 2V1
CA

00-11-D3 (hex) NextGenTel Holding ASA
0011D3 (base 16) NextGenTel Holding ASA
Sandslimarka 31
Bergen Hordaland 5861
NO

00-11-AB (hex) TRUSTABLE TECHNOLOGY CO.,LTD.
0011AB (base 16) TRUSTABLE TECHNOLOGY CO.,LTD.
12FL.-1,NO.167,Fu-Shing N.Rd.,Sung-Shan area
Taipei 105
TW

00-0F-E7 (hex) Lutron Electronics Co., Inc.
000FE7 (base 16) Lutron Electronics Co., Inc.
7200 Suter Rd.
Coopersburg PA 18036-1299
US

00-0F-E6 (hex) MBTech Systems, Inc.
000FE6 (base 16) MBTech Systems, Inc.
412 1st Ave SE
Cullman Alabama 35055
US

00-0F-E9 (hex) GW TECHNOLOGIES CO.,LTD.
000FE9 (base 16) GW TECHNOLOGIES CO.,LTD.
No.38 Shangdi Xilu,Haidian District
Beijing 100085
CN

00-0F-E1 (hex) ID DIGITAL CORPORATION
000FE1 (base 16) ID DIGITAL CORPORATION
6th Fl., Mirae Bldg., 271-1, Seohyun-dong, Bundang-ku, Sungnam-si, Keongki-do, South Korea
Sungnam-Si
Keongki-do 463-050
KR

00-0F-DF (hex) SOLOMON Technology Corp.
000FDF (base 16) SOLOMON Technology Corp.
No.42,Sing Zhong Rd.,Nei Hu Dist.,
Taipei 114
TW

00-0F-EF (hex) Thales e-Transactions GmbH
000FEF (base 16) Thales e-Transactions GmbH
Konrad-Zuse-Straße 19-21
Bad Hersfeld Hessen 36251
DE

00-0F-EE (hex) XTec, Incorporated
000FEE (base 16) XTec, Incorporated
5775 Blue Lagoon Drive
Miami Florida 33126
US

00-0F-E4 (hex) Pantech Co.,Ltd
000FE4 (base 16) Pantech Co.,Ltd
Shinsong B/D 3F, 25-12,
Youngdeungpo-GU Seoul 150-711
KR

00-11-02 (hex) Aurora Multimedia Corp.
001102 (base 16) Aurora Multimedia Corp.
205 Commercial Court
Morganville New Jersey 07751-1070
US

00-0F-FE (hex) G-PRO COMPUTER
000FFE (base 16) G-PRO COMPUTER
first arrange C YingHu industrial estate QingXi country DongGuan city
DongGuan GuangDong 523648
CN

00-0F-DA (hex) YAZAKI
CORPORATION
000FDA (base 16) YAZAKI CORPORATION
1500 MISHUKU
SUSONO-CITY SHIZUOKA-PREF 410-1194
JP

00-11-45 (hex) ValuePoint Networks
001145 (base 16) ValuePoint Networks
350 Townsend St Ste 320
San Francisco, CA 94107
US

00-11-27 (hex) TASI, Inc
001127 (base 16) TASI, Inc
5551 Dry Fork Road
Cleves OH 45002
US

00-11-2A (hex) Niko NV
00112A (base 16) Niko NV
Industriepark West 40
Sint-Niklaas O/V 9100
BE

00-11-2B (hex) NetModule AG
00112B (base 16) NetModule AG
Meriedweg 11
Niederwangen CH 3172
CH

00-11-2D (hex) iPulse Systems
00112D (base 16) iPulse Systems
Unit 3, Riverside Industrial Park
Gauteng Johannesburg 1618
ZA

00-11-3C (hex) Micronas GmbH
00113C (base 16) Micronas GmbH
Hans-Bunte-Strasse 19
Freiburg D-79108

DE

00-11-31 (hex) UNATECH. CO.,LTD
001131 (base 16) UNATECH. CO.,LTD
A-727 ,GEOPYUNG TOWN,203-1
KANGNAM-GU
SEOUL 135-010
US

00-11-23 (hex) Appointech, Inc.
001123 (base 16) Appointech, Inc.
6F-2 No.192 Tung-Kuan Rd.
Hsinchu 300
TW

00-11-0F (hex) netplat,Inc.
00110F (base 16) netplat,Inc.
2F Olympia Center, 828-10, Yeoksam-dong, Gangnam-gu
SEOUL 135-935
KR

00-11-15 (hex) EPIN Technologies, Inc.
001115 (base 16) EPIN Technologies, Inc.
Acorn Campus
Cupertino CA 95014
US

00-11-0B (hex) Franklin Technology Systems
00110B (base 16) Franklin Technology Systems
20406 Earl St
Torrance CA 90503
US

00-11-05 (hex) Sunplus Technology Co., Ltd.
001105 (base 16) Sunplus Technology Co., Ltd.
19, Innovation First Road, Hsinchu Science Park
Hsinchu 300
TW

00-0F-D6 (hex) Sarotech Co., Ltd
000FD6 (base 16) Sarotech Co., Ltd
HanGang Bldg, 1549-7, Seocho-Dong,
Seoul 137-070
KR

00-0F-AC (hex) IEEE 802.11
000FAC (base 16) IEEE 802.11
c/o

RAC Administrator
Piscataway NJ 08854
US

00-0F-B3 (hex) Actiontec Electronics, Inc
000FB3 (base 16) Actiontec Electronics, Inc
3301 Olcott St.
Santa Clara CA 95054
US

00-0F-9C (hex) Panduit Corp
000F9C (base 16) Panduit Corp
17301 Ridgeland Ave
Tinley Park Illinois 60477
US

00-0F-72 (hex) Sandburst
000F72 (base 16) Sandburst
600 Federal St
Andover MA 01810
US

00-0F-75 (hex) First Silicon Solutions
000F75 (base 16) First Silicon Solutions
13939 Forest Lane
Larkspur CO 80118
US

00-0F-7C (hex) ACTi Corporation
000F7C (base 16) ACTi Corporation
7F., No. 1, Alley 20, Lane 407, Sec. 2, Tiding Blvd.,
Taipei 114
TW

00-0F-7A (hex) BeiJing NuQX Technology CO.,LTD
000F7A (base 16) BeiJing NuQX Technology CO.,LTD
Room 812,8F Tower B,YinWang Center, No.113,Zhi Chun Road,
Beijing 100086
CN

00-0F-C7 (hex) Dionica R&D Ltd.
000FC7 (base 16) Dionica
R&D Ltd.
Bologna Centre, F11
Mosta MST13
MT

00-0F-C8 (hex) Chantry Networks

000FC8 (base 16) Chantry Networks
1900 Minnesota Court
Mississauga Ontario L5N 3C9
CA

00-0F-BB (hex) Nokia Siemens Networks GmbH & Co. KG.
000FBB (base 16) Nokia Siemens Networks GmbH & Co. KG.
Werner-von-Siemens Straße 2-6
Bruchsal Baden-Württemberg 76646
DE

00-0F-BC (hex) Onkey Technologies, Inc.
000FBC (base 16) Onkey Technologies, Inc.
780 Montague Expressway, Inc.
San Jose CA 95131
US

00-0F-B6 (hex) Europlex Technologies
000FB6 (base 16) Europlex Technologies
Clonshaugh Business & Tech. Park
Clonshaugh Dublin 17
IE

00-0F-64 (hex) D&R Electronica Weesp BV
000F64 (base 16) D&R Electronica Weesp BV
Rijnkade 15B
WEESP NH 1382GS
NL

00-0F-B9 (hex) Adaptive Instruments
000FB9 (base 16) Adaptive Instruments
577 Main Street
Hudson MA 01749
US

00-0F-AB (hex) Kyushu
Electronics Systems Inc.
000FAB (base 16) Kyushu Electronics Systems Inc.
3-3, Kongo 2-Chome, Yahatanishi Ward
Kitakyushu City Fukuoka Pref. 807-1263
JP

00-0F-AD (hex) FMN communications GmbH
000FAD (base 16) FMN communications GmbH
Grimmelallee 4
Nordhausen Thüringen 99734
DE

00-0F-54 (hex) Entrelogic Corporation
000F54 (base 16) Entrelogic Corporation
33 Boston Post Rd. West.
Marlborough MA 01752
US

00-0F-53 (hex) Solarflare Communications Inc.
000F53 (base 16) Solarflare Communications Inc.
Suite 100, 7505 Irvine Center Drive
Irvine CA 92618
US

00-0F-51 (hex) Azul Systems, Inc.
000F51 (base 16) Azul Systems, Inc.
1600 Plymouth Street
Mountain View California 94043
US

00-0F-98 (hex) Avamax Co. Ltd.
000F98 (base 16) Avamax Co. Ltd.
B1, No. 51, Section 2, ChongQing S. Rd.
Taipei
TW

00-0F-97 (hex) Avanex Corporation
000F97 (base 16) Avanex
Corporation
40919 Encyclopedia Circle
Fremont CA 94538
US

00-0F-96 (hex) Telco Systems, Inc.
000F96 (base 16) Telco Systems, Inc.
15 Berkshire Road
Mansfield MA 02048
US

00-0F-8B (hex) Orion MultiSystems Inc
000F8B (base 16) Orion MultiSystems Inc
3375 Scott Blvd Suite 338
Santa Clara CA 95054
US

00-0F-8C (hex) Gigawavetech Pte Ltd
000F8C (base 16) Gigawavetech Pte Ltd
1 Jalan Kilang Timor
159303
SG

00-0F-3B (hex) Fuji System Machines Co., Ltd.
000F3B (base 16) Fuji System Machines Co., Ltd.
5-8-10
Zama-Shi Kanagawa-Ken 228-0003
JP

00-0F-37 (hex) Xambala Incorporated
000F37 (base 16) Xambala Incorporated
2674 N. 1st Street
San Jose CA 95134
US

00-0F-38 (hex) Netstar
000F38 (base 16) Netstar
3F,No.347, Yang-kuang St.,Nei-Hu Dis.,
Taipei 114
TW

00-0F-3A (hex) HISHARP
000F3A (base 16) HISHARP
NO.673,CHANG HSING ROAD
PATE CITY,TAOYUAN,
TAIPEI 334
TW

00-0F-34 (hex) Cisco Systems, Inc
000F34 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0F-30 (hex) Raza Microelectronics Inc
000F30 (base 16) Raza Microelectronics Inc
3080 North First Street
San Jose CA 95134
US

00-0F-2E (hex) Megapower International Corp.
000F2E (base 16) Megapower International Corp.
Rm. 403, No 24 , Wu-Chuan 2nd Rd.,
Taipei Hsien 242
TW

00-0F-26 (hex) WorldAccxx LLC
000F26 (base 16) WorldAccxx LLC
4035 Tampa Rd.
Oldsmar FL 34667

US

00-0E-D3 (hex) Epicenter, Inc.
000ED3 (base 16) Epicenter, Inc.
211 B Calle Pintoresco
San Clemente CA 92672
US

00-0E-D7 (hex) Cisco Systems, Inc
000ED7 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0E-C5 (hex) Digital Multitools Inc
000EC5 (base 16) Digital Multitools Inc
9005 Leslie
Street Unit 205
Richmond Hill Ontario L4B 1G7
CA

00-0F-00 (hex) Legra Systems, Inc.
000F00 (base 16) Legra Systems, Inc.
3 Burlington Woods Drive
Burlington MA 01803
US

00-0F-01 (hex) DIGITALKS INC
000F01 (base 16) DIGITALKS INC
14 MARSHALL LANE
WESTON CT 06883
US

00-0F-03 (hex) COM&C CO., LTD
000F03 (base 16) COM&C CO., LTD
2F Woojin BLD 1445-2 Secho-Dong
SEOUL 137-070
KR

00-0F-45 (hex) Stretch, Inc.
000F45 (base 16) Stretch, Inc.
1322 Orleans Drive
Sunnyvale CA 94089
US

00-0F-10 (hex) RDM Corporation
000F10 (base 16) RDM Corporation
608 Weber St. N

Waterloo ON N2V 1K4
CA

00-0F-07 (hex) Mangrove Systems, Inc.
000F07 (base 16) Mangrove Systems, Inc.
10 Fairfield Blvd.
Wallingford CT 06492
US

00-0F-25 (hex) AimValley B.V.
000F25 (base 16) AimValley B.V.
Utrechtseweg 38,
Hilversum NH 1223 TV
NL

00-0F-19 (hex) Boston
Scientific
000F19 (base 16) Boston Scientific
4100 Hamline Ave N.
St. Paul MN 55112
US

00-0E-DF (hex) PLX Technology
000EDF (base 16) PLX Technology
870 Maude Ave.,
Sunnyvale CA 94085
US

00-0E-E1 (hex) ExtremeSpeed Inc.
000EE1 (base 16) ExtremeSpeed Inc.
PO Box 600
Mannville Alberta T0B 2W0
CA

00-0E-C7 (hex) Motorola Korea
000EC7 (base 16) Motorola Korea
Hibrand B/D 17F SW Team Motorola Korea
Yangjaedong Seocho
KR

00-0E-BA (hex) HANMI SEMICONDUCTOR CO., LTD.
000EBA (base 16) HANMI SEMICONDUCTOR CO., LTD.
#532-2, Gajwa-Dong, Seo-Ku,
Incheon, 404 250
KR

00-0E-BC (hex) Paragon Fidelity GmbH
000EBC (base 16) Paragon Fidelity GmbH

Schwadermühlstraße
Cadolzburg 90556
DE

00-0E-6C (hex) Device Drivers Limited
000E6C (base 16) Device Drivers Limited
1-5-1-103
Fuchu-shi Tokyo 1830005
JP

00-0E-6B (hex) Janitza electronics GmbH
000E6B
(base 16) Janitza electronics GmbH
Vor dem Polstück 1
Lahnau Hessen 35633
DE

00-0E-67 (hex) Eltis Microelectronics Ltd.
000E67 (base 16) Eltis Microelectronics Ltd.
Unit 902B, 9/F., Sunbeam Centre
Kwun Tong Kowloon
HK

00-0E-AE (hex) GAWELL TECHNOLOGIES CORP.
000EAE (base 16) GAWELL TECHNOLOGIES CORP.
2F,NO.102,SEC.3,JUNG SHAN RD,
JUNG HO CITY, TAIPEI HSIEN 235
TW

00-0E-A4 (hex) Quantum Corp.
000EA4 (base 16) Quantum Corp.
8560 Upland Dr.
Englewood CA 80112
US

00-0E-9D (hex) Tiscali UK Ltd
000E9D (base 16) Tiscali UK Ltd
20 Broadwick Street
London W1F 8HT
GB

00-0E-57 (hex) Iworld Networking, Inc.
000E57 (base 16) Iworld Networking, Inc.
125 Hanju Bldg, Nonhyun-Dong
Seoul 135010
KR

00-0E-47 (hex) NCI System Co.,Ltd.

000E47 (base 16) NCI System Co.,Ltd.
#206, Kayang Techno-Town, 1487, Kayang 3 dong, Kangseo-Ku, Seoul, Korea
Seoul
157-810
KR

00-0E-A8 (hex) United Technologists Europe Limited
000EA8 (base 16) United Technologists Europe Limited
UTEL Laboratories, Wolves Farm Lane
Hadleigh Suffolk IP7 6BH
GB

00-0E-AA (hex) Scalent Systems, Inc.
000EAA (base 16) Scalent Systems, Inc.
490 S. California Ave
Palo Alto CA 94306
US

00-0E-AC (hex) MINTRON ENTERPRISE CO., LTD.
000EAC (base 16) MINTRON ENTERPRISE CO., LTD.
NO.3,Wu-Kung 5Rd., Wu-Ku Ind Park
Taipei County 248
TW

00-0E-8B (hex) Astarte Technology Co, Ltd.
000E8B (base 16) Astarte Technology Co, Ltd.
11F, No. 166 Dah-Yeh Rd.
Peitou, Taipei
TW

00-0E-80 (hex) Thomson Technology Inc
000E80 (base 16) Thomson Technology Inc
9087A 198th ST
Surrey BC V1M-3B1
CA

00-0E-85 (hex) Catalyst Enterprises, Inc.
000E85 (base 16) Catalyst Enterprises, Inc.
3385 Scott Blvd
Santa Clara CA 95054
US

00-0E-74 (hex) Solar Telecom. Tech
000E74
(base 16) Solar Telecom. Tech
B B/D, 4F, Samho Venture Tower
Seoul 137-941
KR

00-0E-7A (hex) GemWon Communications Co., Ltd.
000E7A (base 16) GemWon Communications Co., Ltd.
3FL.,NO.32,Lane 135,Shianjeng 9th Rd.,Jubei City
Hsinchu 302
TW

00-0E-65 (hex) TransCore
000E65 (base 16) TransCore
8600 Jefferson St NE
Albuquerque NM 87113
US

00-0E-5F (hex) activ-net GmbH & Co. KG
000E5F (base 16) activ-net GmbH & Co. KG
Konrad-Zuse-Str. 4
Bochum 44801
DE

00-0D-F5 (hex) Teletronics International Inc.
000DF5 (base 16) Teletronics International Inc.
2 Choke Cherry Road
Rockville MD 20850
US

00-0D-F7 (hex) Space Dynamics Lab
000DF7 (base 16) Space Dynamics Lab
1695 N. Research Park Way
North Logan UT 84341
US

00-0D-EB (hex) CompXs Limited
000DEB (base 16) CompXs Limited
Robert Denholm House
Redhill Surrey RH1 4HW
GB

00-0D-EE (hex) Andrew
RF Power Amplifier Group
000DEE (base 16) Andrew RF Power Amplifier Group
40 Technology Drive
Warren NJ 07059
US

00-0D-EF (hex) Soc. Coop. Bilanciai
000DEF (base 16) Soc. Coop. Bilanciai
via S.Ferrari 16
Campogalliano Modena 41011

IT

00-0D-E7 (hex) Snap-on OEM Group
000DE7 (base 16) Snap-on OEM Group
2333 East Walton Blvd.
Auburn Hills MI 48326
US

00-0D-F0 (hex) QCOM TECHNOLOGY INC.
000DF0 (base 16) QCOM TECHNOLOGY INC.
4F., No.301, Sec. 2, Tiding Blvd.
Taipei City Neihu District 114
TW

00-0D-E5 (hex) Samsung Thales
000DE5 (base 16) Samsung Thales
259 Gongdan-Dong
Gumi-City Gyeongsangbuk-do 730-904
KR

00-0D-DD (hex) Profilo Telra Elektronik Sanayi ve Ticaret. A.
000DDD (base 16) Profilo Telra Elektronik Sanayi ve Ticaret. A.
Cemal Sahir Sokak NO:26-28
stanbul TURKEY 34255
TR

00-0E-0B (hex) Netac Technology Co., Ltd.
000E0B (base 16) Netac
Technology Co., Ltd.
6F, Incubator Building, China Academy of Science &Tech Development,
ShenZhen GuangDong 518057
CN

00-0E-11 (hex) BDT Büro und Datentechnik GmbH & Co.KG
000E11 (base 16) BDT Büro und Datentechnik GmbH & Co.KG
Saline 29
Rottweil Baden-Württemberg D-78628
DE

00-0D-C0 (hex) Spagat AS
000DC0 (base 16) Spagat AS
Tonne Hutifeldtpl. 2
Halden Ostfold 1767
NO

00-0E-32 (hex) Kontron Medical
000E32 (base 16) Kontron Medical
Reinacherstrasse 131

Basel 4002
CH

00-0E-1F (hex) TCL Networks Equipment Co., Ltd.
000E1F (base 16) TCL Networks Equipment Co., Ltd.
No.5 Industrial Road,Shekou
ShenZhen GuangDong 518067
CN

00-0E-46 (hex) Niigata Seimitsu Co.,Ltd.
000E46 (base 16) Niigata Seimitsu Co.,Ltd.
3335-2, Shimonaka, Sanwa-mura
Nakakubiki-gun Niigata 943-0222
JP

00-0E-43 (hex) G-Tek Electronics Sdn. Bhd.
000E43 (base 16) G-Tek Electronics Sdn.
Bhd.
2493 Mukim 1, Lorong Perusahaan Lapan
Perai Penang 13600
MY

00-0E-44 (hex) Digital 5, Inc.
000E44 (base 16) Digital 5, Inc.
101 Grovers Mill Rd.
Lawrenceville NJ 08648
US

00-0D-F8 (hex) ORGA Kartensysteme GmbH
000DF8 (base 16) ORGA Kartensysteme GmbH
Konrad-Zuse-Ring 1
Flintbek Schleswig-Holstein 24220
DE

00-0E-26 (hex) Gincom Technology Corp.
000E26 (base 16) Gincom Technology Corp.
15F., No. 284, Sec.3, Sanmin Rd., Taoyuan City,
Taoyuan, 330
TW

00-0E-16 (hex) SouthWing S.L.
000E16 (base 16) SouthWing S.L.
C/Avila, 48-50
Barcelona 08005
ES

00-0D-82 (hex) PHSNET
000D82 (base 16) PHSNET

Piazza Mariano Rumor, 18
Arcugnano Vicenza 36057
IT

00-0D-83 (hex) Sanmina-SCI Hungary Ltd.
000D83 (base 16) Sanmina-SCI Hungary Ltd.
Kota Jozsef u. 2.
Tatabanya Komarom-Esztergom 2800
HU

00-0D-7F (hex) MIDAS COMMUNICATION TECHNOLOGIES PTE LTD (Foreign Branch)
000D7F (base 16) MIDAS COMMUNICATION TECHNOLOGIES PTE LTD (Foreign Branch)
04-12, Phase Z.Ro Technoprenuer Park
Singapore 139 347
SG

00-0D-75 (hex) Kobian Pte Ltd - Taiwan Branch
000D75 (base 16) Kobian Pte Ltd - Taiwan Branch
2F, No.580, Rueikuang Rd.,Nei Hu,Taipei,
Taipei Nei Hu 114
TW

00-0D-78 (hex) Engineering & Security
000D78 (base 16) Engineering & Security
Martiri della Libertà 32/4
Genova 16155
IT

00-0D-79 (hex) Dynamic Solutions Co,.Ltd.
000D79 (base 16) Dynamic Solutions Co,.Ltd.
17-8 Nihonbashi Hakozaki-cho
Chuo-ku Tokyo 103-0015
JP

00-0D-A7 (hex) Private
000DA7 (base 16) Private

00-0D-AD (hex) Dataprobe, Inc.
000DAD (base 16) Dataprobe, Inc.
1B Pearl Court
Allendale NJ 07401
US

00-0D-A9 (hex) INGETEAM
000DA9 (base 16) INGETEAM
Parque Tecnologico de Bizkaia, Edificio 110
Zamudio Bizkaia 48170

ES

00-0D-AB
(hex) Parker Hannifin GmbH Electromechanical Division Europe
000DAB (base 16) Parker Hannifin GmbH Electromechanical Division Europe
Robert-Bosch-Straße 22
Offenburg Baden-Württemberg 77656
DE

00-0D-A8 (hex) Teletronics Technology Corporation
000DA8 (base 16) Teletronics Technology Corporation
2525 Pearl Buck Road
Bristol Pennsylvania 19007
US

00-0D-9E (hex) TOKUDEN OHIZUMI SEISAKUSYO Co.,Ltd.
000D9E (base 16) TOKUDEN OHIZUMI SEISAKUSYO Co.,Ltd.
Yoshida 1221
Ouragun Ohizumi Gunma 370-0523
JP

00-0D-C6 (hex) DigiRose Technology Co., Ltd.
000DC6 (base 16) DigiRose Technology Co., Ltd.
No. 1, Alley 20, Lane 26 Rueiguang Road,
Taipei 114
TW

00-0D-C1 (hex) SafeWeb Inc
000DC1 (base 16) SafeWeb Inc
2200 Powell St. Ste 590
Emeryville CA 94608
US

00-0D-BA (hex) Océ Document Technologies GmbH
000DBA (base 16) Océ Document Technologies GmbH
Max-Stromeyer-Straße 116
Konstanz
78467
DE

00-0D-BD (hex) Cisco Systems, Inc
000DBD (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0D-6D (hex) K-Tech Devices Corp.
000D6D (base 16) K-Tech Devices Corp.

14016-30
nakaminowa minowamachi kamiina nagano 399-4601
JP

00-0D-6E (hex) K-Patents Oy
000D6E (base 16) K-Patents Oy
P.O. Box 77
VANTAA FI 01511
FI

00-0D-6A (hex) Redwood Technologies LTD
000D6A (base 16) Redwood Technologies LTD
Amber House
Bracknell Berkshire RG12 1JB
GB

00-0D-B5 (hex) GLOBALSAT TECHNOLOGY CORPORATION
000DB5 (base 16) GLOBALSAT TECHNOLOGY CORPORATION
Far East Century Park
Taipei Hsien 235
TW

00-0D-B4 (hex) Stormshield
000DB4 (base 16) Stormshield
2-10 rue Marceau
ISSY LES MOULINEAUX 92130
FR

00-0D-AF (hex) Plexus Corp (UK) Ltd
000DAF (base 16) Plexus Corp (UK) Ltd
Pinnacle Hill
Kelso Roxburghshire TD5 8XX
GB

00-0D-B1
(hex) Japan Network Service Co., Ltd.
000DB1 (base 16) Japan Network Service Co., Ltd.
Matoba Bldg. 6F,
Chuo-ku Tokyo 104-0042
JP

00-0D-A3 (hex) Emerging Technologies Limited
000DA3 (base 16) Emerging Technologies Limited
Wong's Industrial Centre, 180 Wai Yip St
Nil
HK

00-0D-A4 (hex) DOSCH & AMAND SYSTEMS AG

000DA4 (base 16) DOSCH & AMAND SYSTEMS AG
Scheinerstrasse 9
Munich Bavaria 81679
DE

00-0D-9A (hex) INFOTEC LTD
000D9A (base 16) INFOTEC LTD
The Maltings
Ashby-de-la-Zouch Leicestershire LE65 2PS
GB

00-0D-96 (hex) Vtera Technology Inc.
000D96 (base 16) Vtera Technology Inc.
No 34, Industrial East. 4th Rd.
HsinChu 300
TW

00-0D-8B (hex) T&D Corporation
000D8B (base 16) T&D Corporation
5652-169 Sasaga
Matsumoto Nagano 399-0033
JP

00-0D-90 (hex) Factum Electronics AB
000D90 (base 16) Factum Electronics AB
Teknikringen
1H
Linköping Östergötland 583 30
SE

00-0D-85 (hex) Tapwave, Inc.
000D85 (base 16) Tapwave, Inc.
1901 Landings Drive
Mountain View CA 94043
US

00-0D-5D (hex) Raritan Computer, Inc
000D5D (base 16) Raritan Computer, Inc
400 Cottontail Lane
Somerset NJ 08873
US

00-0D-63 (hex) DENT Instruments, Inc.
000D63 (base 16) DENT Instruments, Inc.
64 NW Franklin Ave
Bend OR 97701
US

00-0D-66 (hex) Cisco Systems, Inc
000D66 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0D-21 (hex) WISCORE Inc.
000D21 (base 16) WISCORE Inc.
6F, No. 180, Sec. 2, Duenhua S. Rd,
Taipei 106
TW

00-0D-23 (hex) Smart Solution, Inc
000D23 (base 16) Smart Solution, Inc
465 West Lawndale #B
Salt Lake City UT 84115
US

00-0D-27 (hex) MICROPLEX Printware AG
000D27 (base 16) MICROPLEX Printware AG
Panzerstraße 5
Varel Niedersachsen 26316
DE

00-0D-1B
(hex) Kyoto Electronics Manufacturing Co., Ltd.
000D1B (base 16) Kyoto Electronics Manufacturing Co., Ltd.
56-2, Ninodan-cho, Shinden,
Kyoto-City Kyoto Prefecture 601-8317
JP

00-0D-1D (hex) HIGH-TEK HARNESS ENT. CO., LTD.
000D1D (base 16) HIGH-TEK HARNESS ENT. CO., LTD.
4F-6, No18, Pu-Ting Rd. Hsinchu, Taiwan
Hsinchu 300
TW

00-0C-C9 (hex) ILWOO DATA & TECHNOLOGY CO.,LTD
000CC9 (base 16) ILWOO DATA & TECHNOLOGY CO.,LTD
1475-10,HWA HYUN BLD. 2nd Floor,
SEOUL 137-071
KR

00-0D-40 (hex) Verint Loronix Video Solutions
000D40 (base 16) Verint Loronix Video Solutions
12526 High Bluff Dr. #170
San DIego CA 92130
US

00-0D-37 (hex) WIPLUG
000D37 (base 16) WIPLUG
RUA DR. AGOSTINHO GOULAO
PETROPOLIS RIO JANEIRO 25730050
BR

00-0D-02 (hex) NEC Platforms, Ltd.
000D02 (base 16) NEC Platforms, Ltd.
800 Shimomata
Kakegawa Shizuoka 436-8501
JP

00-0D-07
(hex) Calrec Audio Ltd
000D07 (base 16) Calrec Audio Ltd
Nutclough Mill
Hebden Bridge West Yorkshire HX7 8EZ
GB

00-0C-DD (hex) AOS technologies AG
000CDD (base 16) AOS technologies AG
Taefernstrasse 20
Baden - Daettwil AG CH-5405
CH

00-0C-CD (hex) IEC - TC57
000CCD (base 16) IEC - TC57
3, rue de Varembé
Geneva GE 1211
CH

00-0C-CB (hex) Design Combus Ltd
000CCB (base 16) Design Combus Ltd
Hatanapaan valtatie 34A
Tampere FIN-33100
FI

00-0C-E9 (hex) BLOOMBERG L.P.
000CE9 (base 16) BLOOMBERG L.P.
731 Lexington Ave
NEW YORK NEW YORK 10022
US

00-0C-EA (hex) aphona Kommunikationssysteme
000CEA (base 16) aphona Kommunikationssysteme
Entwicklungs- und VertriebsgmbH
Wien 1230

AT

00-0C-DA (hex) FreeHand Systems, Inc.
000CDA (base 16) FreeHand Systems, Inc.
95 First St.
Los Altos CA 94022
US

00-0D-33 (hex) Prediwave Corp.
000D33
(base 16) Prediwave Corp.
48431 Milmont Drive
Fremont CA 94538
US

00-0D-2F (hex) AIN Comm.Tech.Co., LTD
000D2F (base 16) AIN Comm.Tech.Co., LTD
4F, No.76, Sec2 Mintzu Rd
Jung-Li City 320
TW

00-0D-09 (hex) Yuehua(Zhuhai) Electronic CO. LTD
000D09 (base 16) Yuehua(Zhuhai) Electronic CO. LTD
4Rd Pingdong,Nanping Science & Technolog
Zhuhai Guangdong 519070
CN

00-0C-FB (hex) Korea Network Systems
000CFB (base 16) Korea Network Systems
206 JangYoungSil Bldg, 1688-5
Taejeon 306-230
KR

00-0C-F5 (hex) InfoExpress
000CF5 (base 16) InfoExpress
170 S. Whisman Road, Suite B
Mountain View CA 94041
US

00-0C-EE (hex) jp-embedded
000CEE (base 16) jp-embedded
Buen 21, Nr. Dalby
Borup 4140
DK

00-0C-85 (hex) Cisco Systems, Inc
000C85 (base 16) Cisco Systems, Inc
80 West Tasman Drive

San Jose CA 94568
US

00-0C-84 (hex) Eazix, Inc.
000C84 (base
16) Eazix, Inc.
Unit 301 Plaza Building B
Muntinlupa City Rizal 1770
PH

00-0C-7A (hex) DaTARIUS Technologies GmbH
000C7A (base 16) DaTARIUS Technologies GmbH
Anton Maria Schyrle Str. 7
Reutte Tirol 6600
AT

00-0C-79 (hex) Extel Communications P/L
000C79 (base 16) Extel Communications P/L
399 Ferntree Gully Road
Mt Waverley Victoria 3149
AU

00-0C-75 (hex) Oriental integrated electronics. LTD
000C75 (base 16) Oriental integrated electronics. LTD
281-34 Dondang-dong Wonmi-Gu
Bucheon 420-808
KR

00-0C-6D (hex) Edwards Ltd.
000C6D (base 16) Edwards Ltd.
Marshall Road
Eastbourne East Sussex BN22 9BA
GB

00-0C-70 (hex) ACC GmbH
000C70 (base 16) ACC GmbH
Am Sandfeld 15
Karlsruhe Baden 76149
DE

00-0C-6A (hex) MBARI
000C6A (base 16) MBARI
7700 Sandholdt Road
Moss Landing CA 95039
US

00-0C-6B (hex) Kurz Industrie-Elektronik GmbH
000C6B

(base 16) Kurz Industrie-Elektronik GmbH
Foehrenbachstraße 3
Remshalden Baden-Württemberg 73630
DE

00-0C-B3 (hex) ROUND Co.,Ltd.
000CB3 (base 16) ROUND Co.,Ltd.
3-9 Gokashou-Shibahigashi
uji kyoto 611-0011
JP

00-0C-A5 (hex) Naman NZ LTd
000CA5 (base 16) Naman NZ LTd
13/17 Kawana St
Auckland
NZ

00-0C-A9 (hex) Ebtron Inc.
000CA9 (base 16) Ebtron Inc.
1663 Hwy 701 South
Loris SC 29569
US

00-0C-9A (hex) Hitech Electronics Corp.
000C9A (base 16) Hitech Electronics Corp.
4f, No. 501-15 Chung-Cheng Rd.
Shin-tien Taipei Shien 231
TW

00-0C-91 (hex) Riverhead Networks Inc.
000C91 (base 16) Riverhead Networks Inc.

Cupertino CA 95014
US

00-0C-5D (hex) CHIC TECHNOLOGY (CHINA) CORP.
000C5D (base 16) CHIC TECHNOLOGY (CHINA) CORP.
7th Building,Shi'ao Ind.Zone,Longhua Tow
Shenzhen Guangdong 518109
CN

00-0C-4F (hex) UDTech Japan Corporation
000C4F
(base 16) UDTech Japan Corporation
Hamacho Hanacho Bldg, 2F
Chuo-ku Tokyo 103-0007
JP

00-0C-62 (hex) ABB AB, Cewe-Control
000C62 (base 16) ABB AB, Cewe-Control
Dept. LPCC/RE
Vasteras 721 61
SE

00-0C-9D (hex) UbeeAirWalk, Inc.
000C9D (base 16) UbeeAirWalk, Inc.
1850 N. GreenVille Ave., Suite 164
Richardson TX 75081
US

00-0C-9F (hex) NKE Corporation
000C9F (base 16) NKE Corporation
366-1 Hishikawa-cho Hazukashi Fushimi-ku
Kyoto-shi Kyoto 612-8487
JP

00-0C-4C (hex) Arcor AG&Co.
000C4C (base 16) Arcor AG&Co.
Alfred-Herrhausen-Allee 1
Eschborn Hessen 65760
DE

00-0C-47 (hex) SK Teletech(R&D Planning Team)
000C47 (base 16) SK Teletech(R&D Planning Team)
21th FL Startower 737, Yeoksam-dong
Seoul 135-984
KR

00-0C-AF (hex) TRI TERM CO.,LTD.
000CAF (base 16) TRI TERM CO.,LTD.
21-5 HIRAIDE KOUGIYO DANCHI
TOCHIGI 321-0905
JP

00-0C-15
(hex) CyberPower Systems, Inc.
000C15 (base 16) CyberPower Systems, Inc.
6F, No. 32, Sec. 1, Chenggong Rd.
Taipei 115
TW

00-0C-16 (hex) Concorde Microsystems Inc.
000C16 (base 16) Concorde Microsystems Inc.
10427 Cogdill Road, Suite 500
Knoxville TN 37932
US

00-0B-DA (hex) EyeCross Co.,Inc.
000BDA (base 16) EyeCross Co.,Inc.
3F Iioka-Building
Tokyo Ueno Taitoh-ku 3-4-1 110-0005
JP

00-0B-D6 (hex) Paxton Access Ltd
000BD6 (base 16) Paxton Access Ltd
Paxton House
Brighton East Sussex BN1 9HU
GB

00-0C-1F (hex) Glimmerglass Networks
000C1F (base 16) Glimmerglass Networks
26142 Eden Landing Road
Hayward California 94545
US

00-0C-20 (hex) Fi WIn, Inc.
000C20 (base 16) Fi WIn, Inc.
8F, No. 10, Prosperity Rd. 1,
Hsin Chu 300
TW

00-0C-02 (hex) ABB Oy
000C02 (base 16) ABB Oy
P.O.Box 89
Turku FIN-20521
FI

00-0B-FF (hex) Berkeley Camera
Engineering
000BFF (base 16) Berkeley Camera Engineering
127 National Street
Santa Cruz CA 95060
US

00-0B-D0 (hex) XiMeta Technology Americas Inc.
000BD0 (base 16) XiMeta Technology Americas Inc.
54 Ray Street
New Brunswick NJ 08901
US

00-0B-D4 (hex) Beijing Wise Technology & Science Development Co.Ltd
000BD4 (base 16) Beijing Wise Technology & Science Development Co.Ltd
3rd Floor Caihong Building, No.2,1st Wes
Beijing 100088

CN

00-0B-EC (hex) NIPPON ELECTRIC INSTRUMENT, INC.
000BEC (base 16) NIPPON ELECTRIC INSTRUMENT, INC.
3-56-21 Hirado
Totsuka-ku Yokohama-shi 244-0802
JP

00-0B-E7 (hex) COMFLUX TECHNOLOGY INC.
000BE7 (base 16) COMFLUX TECHNOLOGY INC.
Room 131,Bldg. 53,195-58,Sec.4,
Hsinchu 310
TW

00-0C-3F (hex) Cogent Defence & Security Networks,
000C3F (base 16) Cogent Defence & Security Networks,
Meadows Road,
Newport, South Wales, NP19 4SS
GB

00-0C-30
(hex) Cisco Systems, Inc
000C30 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0B-C5 (hex) SMC Networks, Inc.
000BC5 (base 16) SMC Networks, Inc.
38 Tesla
Irvine CA 92618
US

00-0B-C6 (hex) ISAC, Inc.
000BC6 (base 16) ISAC, Inc.
PO Box 7682
Auburn CA 95604
US

00-0C-09 (hex) Hitachi IE Systems Co., Ltd
000C09 (base 16) Hitachi IE Systems Co., Ltd
Saiwai-cho 120-1,Inazawa-shi
Inazawa-shi Aichi 492-8622
JP

00-0B-5E (hex) Audio Engineering Society Inc.
000B5E (base 16) Audio Engineering Society Inc.
60 East 42nd Street, Suite #2520

New York NY 10165-2520
US

00-0B-5F (hex) Cisco Systems, Inc
000B5F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0B-60 (hex) Cisco Systems, Inc
000B60 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0B-65 (hex) Sy.A.C.
srl
000B65 (base 16) Sy.A.C. srl
via Caboto 19/1
Trieste 34147
IT

00-0B-61 (hex) Friedrich Lütze GmbH & Co. KG
000B61 (base 16) Friedrich Lütze GmbH & Co. KG
Bruckwiesenstraße 17 - 19
Weinstadt (Großheppach) BW 71384
DE

00-0B-59 (hex) ScriptPro, LLC
000B59 (base 16) ScriptPro, LLC
5828 Reeds Rd.
Mission Kansas 66202
US

00-0B-5C (hex) Newtech Co.,Ltd
000B5C (base 16) Newtech Co.,Ltd
K-Bldg 1-7-7 Shibadaimon Minato-ku
Tokyo 105-0012
JP

00-0B-83 (hex) DATAWATT B.V.
000B83 (base 16) DATAWATT B.V.
HOUTSTRAAT 5
WOLVEGA NL-8471-ZX
NL

00-0B-71 (hex) Litchfield Communications Inc.
000B71 (base 16) Litchfield Communications Inc.

27 Princeton Road
Watertown CT 06795
US

00-0B-74 (hex) Kingwave Technology Co., Ltd.
000B74 (base 16) Kingwave Technology Co., Ltd.
18F-3, No. 186, Jian-Yi Rd.
Chung-Ho Taipei 235
TW

00-0B-73 (hex) Kodeos
Communications
000B73 (base 16) Kodeos Communications
111 Corporate Blvd
South Plainfield NJ 07080
US

00-0B-76 (hex) ET&T Technology Co. Ltd.
000B76 (base 16) ET&T Technology Co. Ltd.
6F No.101, SongJiang Rd.
Taipei 104
TW

00-0B-7E (hex) SAGINOMIYA Seisakusho Inc.
000B7E (base 16) SAGINOMIYA Seisakusho Inc.
535 Sasai
Sayamashi Saitamaken 350-1395
JP

00-0B-80 (hex) Lycium Networks
000B80 (base 16) Lycium Networks
9 Hamenofim St.
Herzliya Israel 46733
IL

00-0B-7C (hex) Telex Communications
000B7C (base 16) Telex Communications
8601 E. Cornhusker Hwy
Lincoln NE 68505
US

00-0B-C1 (hex) Bay Microsystems, Inc.
000BC1 (base 16) Bay Microsystems, Inc.
2055 Gateway Place
Santa Jose CA 95110
US

00-0B-A7 (hex) Maranti Networks

000BA7 (base 16) Maranti Networks
3061-B Zanker Road
San Jose CA 95134
US

00-0B-AA (hex) Aiphone co.,Ltd
000BAA
(base 16) Aiphone co.,Ltd
2-18 Jinno-Cho
Nagoya Aichi-ken 456-8666
JP

00-0B-39 (hex) Keisoku Giken Co.,Ltd.
000B39 (base 16) Keisoku Giken Co.,Ltd.
Tsuzuki-ku
Yokohama Kanagawa 224-0037
JP

00-0B-33 (hex) Vivato Technologies
000B33 (base 16) Vivato Technologies
444 Cedros Ave
Solana Beach CA 92027
US

00-0B-3E (hex) BittWare, Inc
000B3E (base 16) BittWare, Inc
31 B South Main St
Concord NH 03301
US

00-0B-A4 (hex) Shiron Satellite Communications Ltd. (1996)
000BA4 (base 16) Shiron Satellite Communications Ltd. (1996)
23 Hasivim St.
Petach Tikva 49170
IL

00-0B-99 (hex) SensAble Technologies, Inc.
000B99 (base 16) SensAble Technologies, Inc.
15 Constitution Way
Woburn MA 01801
US

00-0B-9C (hex) TriBeam Technologies, Inc.
000B9C (base 16) TriBeam Technologies, Inc.
116 W. Eastman St., suite 208
Arlington Heights IL 60004
US

00-0B-5B
(hex) Rincon Research Corporation
000B5B (base 16) Rincon Research Corporation
101 N. Wilmot Rd.
Tucson AZ 85711
US

00-0B-89 (hex) Top Global Technology, Ltd.
000B89 (base 16) Top Global Technology, Ltd.
Room 3310, China World Tower No. 1
Beijing Beijing 100004
CN

00-0B-8B (hex) KERAJET, S.A.
000B8B (base 16) KERAJET, S.A.
Avda. del Boverot, 24
Almazora Castellon E-12550
ES

00-0B-41 (hex) Ing. Büro Dr. Beutlhauser
000B41 (base 16) Ing. Büro Dr. Beutlhauser
Roemerweg 4
Grassau D-83224
DE

00-0A-F6 (hex) Emerson Climate Technologies Retail Solutions, Inc.
000AF6 (base 16) Emerson Climate Technologies Retail Solutions, Inc.
1640 Airport Rd
Kennesaw GA 30144-7038
US

00-0A-EA (hex) ADAM ELEKTRONIK LTD. TI
000AEA (base 16) ADAM ELEKTRONIK LTD. TI
UZUNAYNA CAD. CELENK SOK. NO:1 Çakmak
stanbul 81260
TR

00-0A-E3 (hex) YANG MEI TECHNOLOGY CO., LTD
000AE3
(base 16) YANG MEI TECHNOLOGY CO., LTD
21, Alley 1, Lane 342
Taipei 114
TW

00-0A-DC (hex) RuggedCom Inc.
000ADC (base 16) RuggedCom Inc.
30 Whitmore Road
Woodbridge Ontario L4L 7Z4

CA

00-0A-E0 (hex) Fujitsu Softek
000AE0 (base 16) Fujitsu Softek
1250 East Arques Ave
Sunnyvale Ca 94085
US

00-0B-03 (hex) Taekwang Industrial Co., Ltd
000B03 (base 16) Taekwang Industrial Co., Ltd
#191-1, Anyang-7Dong, Manan-Gu
Anyang-Si South Korea 430-017
KR

00-0B-01 (hex) DAIICHI ELECTRONICS CO., LTD.
000B01 (base 16) DAIICHI ELECTRONICS CO., LTD.
1-11-13
Hitotsuya Adachi-ku Tokyo 121-8639
JP

00-0A-B9 (hex) Astera Technologies Corp.
000AB9 (base 16) Astera Technologies Corp.
2380 Waverley Street
Palo Alto CA 94301
US

00-0A-A1 (hex) V V S Limited
000AA1 (base 16) V V S Limited
HPIC, 1. Ainslie Road ,
Glasgow Scotland G52 4RU
GB

00-0A-A4 (hex) SHANGHAI
SURVEILLANCE TECHNOLOGY CO,LTD
000AA4 (base 16) SHANGHAI SURVEILLANCE TECHNOLOGY CO,LTD
FL.25A,NO.8 CHANGYANG ROAD
SHANGHAI 200082
CN

00-0A-9E (hex) BroadWeb Corportation
000A9E (base 16) BroadWeb Corportation
3F, 24-1, Industry East Rd., IV,
Hsin-Chu 300
TW

00-0A-BB (hex) Taiwan Secom Co,. Ltd
000ABB (base 16) Taiwan Secom Co,. Ltd
13F, 108, Sec1, Shin-Tai 5th Road

Hsi-Chih Taipei County 221
TW

00-0A-AD (hex) Stargames Corporation
000AAD (base 16) Stargames Corporation
13 Sheridan Close
Milperra NSW 2031
AU

00-0A-B1 (hex) GENETEC Corporation
000AB1 (base 16) GENETEC Corporation
BYGS Shinjyuku Bldg. 5F
Shinjuku-ku Tokyo 162-0022
JP

00-0A-B7 (hex) Cisco Systems, Inc
000AB7 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0B-11 (hex) HIMEJI ABC TRADING CO.,LTD.
000B11 (base 16) HIMEJI ABC TRADING CO.,LTD.
1-8-22
HJMEJI
HYOGO 670-0883
JP

00-0B-05 (hex) Pacific Broadband Networks
000B05 (base 16) Pacific Broadband Networks
Suite 15, Building 3, 195 Wellington Road
Clayton VIC 3168
AU

00-0B-00 (hex) FUJIAN START COMPUTER EQUIPMENT CO.,LTD
000B00 (base 16) FUJIAN START COMPUTER EQUIPMENT CO.,LTD
HONG SHAN YUAN ROAD NO.68 HONGSHAN,GULOU
FUZHOU FUJIAN 350002
CN

00-0B-29 (hex) LS(LG) Industrial Systems co.,Ltd
000B29 (base 16) LS(LG) Industrial Systems co.,Ltd
533 Hogye-dong, Dongan-gu
Anyang-si Gyeonggi-do
KR

00-0B-20 (hex) Hirata corporation
000B20 (base 16) Hirata corporation

111 Hitotsugi, Ueki, Kamoto,
Kumamoto 861-0198
JP

00-0B-22 (hex) Environmental Systems and Services
000B22 (base 16) Environmental Systems and Services
20 Council Street
Hawthorn East Victoria 3123
AU

00-0B-1B (hex) Systronix, Inc.
000B1B (base 16) Systronix, Inc.
939 Edison St.
Salt
Lake City Utah 84111
US

00-0A-88 (hex) InCypher S.A.
000A88 (base 16) InCypher S.A.
18 rue de l'Eau
Luxembourg 1449
LU

00-0A-7C (hex) Tecton Ltd
000A7C (base 16) Tecton Ltd
Fishers Court
Eastleigh Hampshire SO50 7HG
GB

00-0A-6E (hex) Harmonic, Inc
000A6E (base 16) Harmonic, Inc
4300 North First Street
San Jose CA 95134
US

00-0A-6D (hex) EKS Elektronikservice GmbH
000A6D (base 16) EKS Elektronikservice GmbH
Enzstr. 9
Kornwestheim Baden-Württemberg 70806
DE

00-0A-4B (hex) DataPower Technology, Inc.
000A4B (base 16) DataPower Technology, Inc.
One Alewife Center
Cambridge MA 02140
US

00-0A-43 (hex) Chunghwa Telecom Co., Ltd.

000A43 (base 16) Chunghwa Telecom Co., Ltd.
12, Lane 551, Min-Tsu Road
Taoyuan 326
TW

00-0A-45 (hex) Audio-Technica Corp.
000A45 (base 16) Audio-Technica Corp.
Naruse 1,348
Machida Tokyo 194-8566
JP

00-0A-35
(hex) Xilinx
000A35 (base 16) Xilinx
2100 Logic Drive
San Jose CA 94110
US

00-0A-3B (hex) GCT Semiconductor, Inc
000A3B (base 16) GCT Semiconductor, Inc
2121 Ringwood Avenue
San Jose CA 95131
US

00-0A-1E (hex) Red-M Products Limited
000A1E (base 16) Red-M Products Limited
Neptune House
Wooburn Green Buckinghamshire HP10 0HH
GB

00-0A-14 (hex) TECO a.s.
000A14 (base 16) TECO a.s.
Havlickova 260
KOLIN CZ 280 58
CZ

00-0A-0B (hex) Sealevel Systems, Inc.
000A0B (base 16) Sealevel Systems, Inc.
155 Technology Place
Liberty SC 29657
US

00-0A-10 (hex) FAST media integrations AG
000A10 (base 16) FAST media integrations AG
Schöngrund 26
Rotkreuz Canton of Zug 6343
CH

00-0A-74 (hex) Manticom Networks Inc.
000A74 (base 16) Manticom Networks Inc.
14016-C Sullyfield Circle
Chantilly VA 20151
US

00-0A-6F (hex) ZyFLEX Technologies
Inc
000A6F (base 16) ZyFLEX Technologies Inc
2Fl. No. 58 Park Ave. II
S.B.I.P., Hsinchu 30077
TW

00-0A-63 (hex) DHD GmbH
000A63 (base 16) DHD GmbH
Haferkornstrasse 5
Leipzig Sachsen 04129
DE

00-0A-67 (hex) OngCorp
000A67 (base 16) OngCorp
481 Hackensack Ave.
Hackensack NJ 07601
US

00-0A-90 (hex) Bayside Interactive, Inc.
000A90 (base 16) Bayside Interactive, Inc.
330 Biscayne Blvd.
Miami FL 33132
US

00-0A-9D (hex) King Young Technology Co. Ltd.
000A9D (base 16) King Young Technology Co. Ltd.
1Fl., No. 9, Lane 26, Gangchi Rd., Neihu
Taipei 114
TW

00-0A-33 (hex) Emulex Corporation
000A33 (base 16) Emulex Corporation
2021 Opportunity Drive
Roseville CA 95678
US

00-0A-2E (hex) MAPLE NETWORKS CO., LTD
000A2E (base 16) MAPLE NETWORKS CO., LTD
602, Dongwha
SEOUL 156-010
KR

00-0A-2D (hex) Cabot Communications Limited
000A2D
(base 16) Cabot Communications Limited
Verona House
Bristol Gloucestershire BS16 3RY
US

00-0A-25 (hex) CERAGON NETWORKS
000A25 (base 16) CERAGON NETWORKS
24 RAUEL WALLENBERG STREET
TEL-AVIV 96719
IL

00-0A-21 (hex) Integra Telecom Co. Ltd
000A21 (base 16) Integra Telecom Co. Ltd
7th floor Hwayoung Bld. 112-2
Seoul
KR

00-0A-8B (hex) Cisco Systems, Inc
000A8B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-09-FB (hex) Philips Patient Monitoring
0009FB (base 16) Philips Patient Monitoring
Hewlett-Packard-Str.2
Boeblingen 71034
DE

00-09-8F (hex) Cetacean Networks
00098F (base 16) Cetacean Networks
110 Corporate Drive
Portsmouth NH 03801
US

00-09-86 (hex) Metalink LTD.
000986 (base 16) Metalink LTD.
Yakum Business Park
Yakum HOF HASHARON 60972
IL

00-09-87 (hex) NISHI NIPPON ELECTRIC WIRE & CABLE CO.,LTD.
000987
(base 16) NISHI NIPPON ELECTRIC WIRE & CABLE CO.,LTD.
Kasugaura

Oita-City OITA 870-8632
JP

00-09-89 (hex) VividLogic Inc.
000989 (base 16) VividLogic Inc.
40994 Encyclopedia Circle
Fremont CA 94538
US

00-09-8C (hex) Option Wireless Sweden
00098C (base 16) Option Wireless Sweden
Sturegatan 2
Sundbyberg SE-172 24
SE

00-09-85 (hex) Auto Telecom Company
000985 (base 16) Auto Telecom Company
10F, No.3,Lane 16, Sec.2, Sichuan Rd.
Banqiao City Taipei County 22061
TW

00-09-8D (hex) Velocity Semiconductor
00098D (base 16) Velocity Semiconductor
Suite 32 Wey House
Weybridge Surrey KT13 8NA
GB

00-09-81 (hex) Newport Networks
000981 (base 16) Newport Networks
Enterprise House
Chepstow Monmouthshire NP16 5PB
GB

00-09-84 (hex) MyCasa Network Inc.
000984 (base 16) MyCasa Network Inc.
200 Sheridan Ave #103
Palo Alto CA 94306
US

00-09-A3
(hex) Leadfly Techologies Corp. Ltd.
0009A3 (base 16) Leadfly Techologies Corp. Ltd.
9Fl, No.260, Bade Rd.,
Taipei 104
TW

00-09-A5 (hex) HANSUNG ELETRONIC INDUSTRIES DEVELOPMENT CO., LTD
0009A5 (base 16) HANSUNG ELETRONIC INDUSTRIES DEVELOPMENT CO., LTD

HEUNGJIN BLDG 3F, #217-3 POI-DONG, KANGN
SEOUL 135-963
KR

00-09-9A (hex) ELMO COMPANY, LIMITED
00099A (base 16) ELMO COMPANY, LIMITED
6-14, MEIZEN-CHO, MIZUHO-KU
NAGOYA AICHI-Pref. 467-8567
JP

00-09-9C (hex) Naval Research Laboratory
00099C (base 16) Naval Research Laboratory
Code 5592
Washington DC 20375-5000
US

00-09-D7 (hex) DC Security Products
0009D7 (base 16) DC Security Products
One Lindsay Circle
San Francisco California 94124
US

00-09-D8 (hex) Fält Communications AB
0009D8 (base 16) Fält Communications AB
Kylgränd 6a
SE 906 20 Umeå
SE

00-09-DB (hex) eSpace
0009DB (base 16) eSpace
9623
Simsbury Ct.
Twinsburg OH 44087-3220
US

00-09-D5 (hex) Signal Communication, Inc.
0009D5 (base 16) Signal Communication, Inc.
100 Wood Ave South
Iselin NJ 08830
US

00-09-D3 (hex) Western DataCom Co., Inc.
0009D3 (base 16) Western DataCom Co., Inc.
925-D Bassett Rd.
Westlake OH 44145
US

00-09-BC (hex) Utility, Inc

0009BC (base 16) Utility, Inc
250 E Ponce de Leon Ave Suite 700
Decatur GA 30030
US

00-09-BE (hex) Mamiya-OP Co.,Ltd.
0009BE (base 16) Mamiya-OP Co.,Ltd.
3-23-10, Negishi Minami-ku
Saitama-shi Saitama 336-8581
JP

00-09-92 (hex) InterEpoch Technology,INC.
000992 (base 16) InterEpoch Technology,INC.
7F,No.3,Alley 6,Lane 235,Pao-Chiao Rd
Hsin-Tien Taipei Hsien 231
TW

00-09-95 (hex) Castle Technology Ltd
000995 (base 16) Castle Technology Ltd
Ore Trading Estate
Framlingham Suffolk IP13 9LL
GB

00-09-98 (hex) Capinfo Company Limited
000998
(base 16) Capinfo Company Limited
7th Floor A Corporate Square, NO. 35 Fin
Beijing 100032
CN

00-09-F9 (hex) ART JAPAN CO., LTD.
0009F9 (base 16) ART JAPAN CO., LTD.
322-7, Ichinotsubo,
Kawasaki Kanagawa 211-0016
JP

00-09-FD (hex) Ubinetics Limited
0009FD (base 16) Ubinetics Limited
Cambridge Technology Centre
Melbourn Hertfordshire SG8 6DP
GB

00-09-F7 (hex) SED, a division of Calian
0009F7 (base 16) SED, a division of Calian
18 Innnovation Boulevard
Saskatoon Saskatchewan (SK) S7K 3P7
CA

00-09-E6 (hex) Cyber Switching Inc.
0009E6 (base 16) Cyber Switching Inc.
1800 De La Cruz Blvd.
Santa Clara CA 95050
US

00-09-E2 (hex) Sinbon Electronics Co., Ltd.
0009E2 (base 16) Sinbon Electronics Co., Ltd.
4F-13, No. 79, Sec 1, Hsin Tai Wu Rd.
Hsi-Chih, Taipei 221
TW

00-09-DA (hex) Control Module Inc.
0009DA (base 16) Control Module Inc.
227
Brainard Road
Enfield CT 06082
US

00-09-B6 (hex) Cisco Systems, Inc
0009B6 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-09-B3 (hex) MCM Systems Ltd
0009B3 (base 16) MCM Systems Ltd
Kolomban 9F
Ankaran Slovenija 6280
SI

00-09-4A (hex) Homenet Communications
00094A (base 16) Homenet Communications
Innovation Centre
Limerick
IE

00-09-4B (hex) FillFactory NV
00094B (base 16) FillFactory NV
Schalienhoevedreef 20B
B-2800 Mechelen
BE

00-09-4D (hex) Braintree Communications Pty Ltd
00094D (base 16) Braintree Communications Pty Ltd
Unit 3
Slacks Creek QLD 4127
AU

00-09-50 (hex) Independent Storage Corporation
000950 (base 16) Independent Storage Corporation
6273 Monarch Park Place
Niwot Colorado 80503
US

00-09-54 (hex) AMiT spol. s. r. o.
000954 (base 16) AMiT spol. s. r. o.
Naskove 3
150 00 Praha
5
CZ

00-09-52 (hex) Auerswald GmbH & Co. KG
000952 (base 16) Auerswald GmbH & Co. KG
Vor den Grashoefen 1
Cremlingen Niedersachsen 38162
DE

00-09-44 (hex) Cisco Systems, Inc
000944 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-09-2C (hex) Hitpoint Inc.
00092C (base 16) Hitpoint Inc.
No.7, Fenliao, 2nd Industrial Park, Link
Taipei 244
TW

00-09-2B (hex) iQstor Networks, Inc.
00092B (base 16) iQstor Networks, Inc.
2001 Corporate Center Drive
Newbury Park CA 91320
US

00-09-26 (hex) YODA COMMUNICATIONS, INC.
000926 (base 16) YODA COMMUNICATIONS, INC.
2F, No.3-1, Industry East Road IX,
Hsinchu 300
TW

00-09-27 (hex) TOYOKEIKI CO.,LTD.
000927 (base 16) TOYOKEIKI CO.,LTD.
17-10-3,Shimosinjyo
Osaka 533-0021

JP

00-09-23 (hex) Heaman System Co., Ltd
000923 (base 16) Heaman System Co., Ltd
Building M6,National Hi-tech
& Indus
Changsha Hunan Province 410013
US

00-09-1D (hex) Proteam Computer Corporation
00091D (base 16) Proteam Computer Corporation
7F, No. 157. Section 2 Ta-Tung Rd
Hsi-Chih Taipei Hsien 221
US

00-09-5C (hex) Philips Medical Systems - Cardiac and Monitoring Systems (CM
00095C (base 16) Philips Medical Systems - Cardiac and Monitoring Systems (CM
3000 Minuteman Road
Andover Massachusetts 01810
US

00-09-58 (hex) INTELNET S.A.
000958 (base 16) INTELNET S.A.
FRANCISCO OLIVAN BAYLE, 4
ZARAGOZA 50015
ES

00-09-55 (hex) Young Generation International Corp.
000955 (base 16) Young Generation International Corp.
4F.,No. 188, Minchuan Rd., Shindian City
Shindian 231
TW

00-09-09 (hex) Telenor Connect A/S
000909 (base 16) Telenor Connect A/S
Ellegaardvej 25L
Sønderborg Als 6400
DK

00-09-0A (hex) SnedFar Technology Co., Ltd.
00090A (base 16) SnedFar Technology
Co., Ltd.
15FL., No.866-2, Jung Jeng Rd.,
Junghe Taipei 235
TW

00-09-03 (hex) Panasas, Inc
000903 (base 16) Panasas, Inc

15333 John F Kennedy Blvd, Suite 400
Houston TX 77032-2351
US

00-09-07 (hex) Chrysalis Development
000907 (base 16) Chrysalis Development
8125 River Dr. Suite 100
Morton Grove IL 60053
US

00-09-06 (hex) Esteem Networks
000906 (base 16) Esteem Networks
4F, No.900, Yishan Road
Shanghai 200233
CN

00-08-FB (hex) SonoSite, Inc.
0008FB (base 16) SonoSite, Inc.
21919 30th Drive SE
Bothell WA 98021
US

00-09-62 (hex) Sonitor Technologies AS
000962 (base 16) Sonitor Technologies AS
Forskningsveien 1B
Oslo Blindern N-0134
NO

00-09-5D (hex) Dialogue Technology Corp.
00095D (base 16) Dialogue Technology Corp.
10F, No. 196, Sec. 2, Jungshing Rd.
Shindian City Taipei 231
TW

00-09-17 (hex) WEM Technology Inc
000917 (base 16) WEM
Technology Inc
8F-2, No 386, Sec 5 Nanjing East Road.
Taipei 105
TW

00-08-7E (hex) Bon Electro-Telecom Inc.
00087E (base 16) Bon Electro-Telecom Inc.
Gayang 1st Factory 701, 14-81
Seoul 157-808
KR

00-08-80 (hex) BroadTel Canada Communications inc.

000880 (base 16) BroadTel Canada Communications inc.
3700 Griffith, Suite 389
Saint-Laurent Quebec H4T 2B3
CA

00-08-6D (hex) Missouri FreeNet
00086D (base 16) Missouri FreeNet
PO Box 771026
St. Louis Missouri 63177-1026
US

00-08-6A (hex) Securiton Gmbh
00086A (base 16) Securiton Gmbh
Von-Drais-Strasse 33
Achern D-77855
DE

00-08-D4 (hex) IneoQuest Technologies, Inc
0008D4 (base 16) IneoQuest Technologies, Inc
1931 Washington St
Canton Massachusetts 02021
US

00-08-D6 (hex) HASSNET Inc.
0008D6 (base 16) HASSNET Inc.
2F Missy2000 B/D 725, SooSeo-Dong,
Seoul 135-757
KR

00-08-CE (hex) IPMobileNet
Inc.
0008CE (base 16) IPMobileNet Inc.
11909 E Telegraph Rd.
Santa Fe Springs CA 90670
US

00-08-C2 (hex) Cisco Systems, Inc
0008C2 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-08-C0 (hex) ASA SYSTEMS
0008C0 (base 16) ASA SYSTEMS
S245 Korea Maritime University, 1 Dongsa
Busan Busan Metropolitan City 606-791
KR

00-08-81 (hex) DIGITAL HANDS CO.,LTD.
000881 (base 16) DIGITAL HANDS CO.,LTD.
KAKiYA Building 2F
Yokohama Kanagawa 222-0033
JP

00-08-82 (hex) SIGMA CORPORATION
000882 (base 16) SIGMA CORPORATION
2-3-15 Iwato-minami
Komae-shi Tokyo 201-8630
JP

00-08-73 (hex) DapTechnology B.V.
000873 (base 16) DapTechnology B.V.
Zutphenstraat 67
EJ Oldenzaal 7575
NL

00-08-7A (hex) Wipotec GmbH
00087A (base 16) Wipotec GmbH
Adam-Hoffman Str. 26

DE

00-08-71 (hex) NORTHDATA Co., Ltd.
000871 (base
16) NORTHDATA Co., Ltd.
#302 KayangTechno-Town 1487
Kangseo-Gu Seoul 157-810
KR

00-08-B2 (hex) SHENZHEN COMPASS TECHNOLOGY DEVELOPMENT CO.,LTD
0008B2 (base 16) SHENZHEN COMPASS TECHNOLOGY DEVELOPMENT CO.,LTD
4th Floor,Building 205,TaiRan Industry
Shenzhen GUANGDONG 518040
CN

00-08-B1 (hex) ProQuent Systems
0008B1 (base 16) ProQuent Systems
67 Forest Street
Marlboro MA 01752
US

00-08-AF (hex) Novatec Corporation
0008AF (base 16) Novatec Corporation
2-19-2 Nishi-Gotanda
Shinagawa-ku Tokyo 141-0031
JP

00-08-A6 (hex) Multiware & Image Co., Ltd.
0008A6 (base 16) Multiware & Image Co., Ltd.
Saedong Bldg. 65-25,
Pusan 606-032
KR

00-08-EE (hex) Logic Product Development
0008EE (base 16) Logic Product Development
411 Washington Ave N. Suite 101
Minneapolis Minnesota 55401
US

00-08-EB (hex) ROMWin Co.,Ltd.
0008EB (base 16) ROMWin Co.,Ltd.
406 OmiyaOhtaka
Bldg. 1-103
Saitama 330-0843
US

00-08-E8 (hex) Excel Master Ltd.
0008E8 (base 16) Excel Master Ltd.
Room D, 3/F., Yeung Yiu Chung (No. 8) Ind. Bldg.
Kowloon Bay
HK

00-08-DC (hex) Wiznet
0008DC (base 16) Wiznet
5F Simmtech bldg., 228-3,
Seoul 135-830
KR

00-08-63 (hex) Entrisphere Inc.
000863 (base 16) Entrisphere Inc.
1601 S. De Anza Blvd.
Cupertino CA 95014
US

00-08-66 (hex) DSX Access Systems, Inc.
000866 (base 16) DSX Access Systems, Inc.
10731 Rockwall Rd.
Dallas TX 75238
US

00-08-5F (hex) Picanol N.V.
00085F (base 16) Picanol N.V.
Polenlaan 3-7

BE

00-08-52 (hex) Davolink Co. Inc.
000852 (base 16) Davolink Co. Inc.
Room-604, Kumhwa Plaza,
Kyunggi-Do 435-040
KR

00-08-A3 (hex) Cisco Systems, Inc
0008A3 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-08-9E (hex) Beijing Enter-Net
co.LTD
00089E (base 16) Beijing Enter-Net co.LTD
NO 1 courtyard,
Beijing 100085
US

00-08-8E (hex) Nihon Computer Co., Ltd.
00088E (base 16) Nihon Computer Co., Ltd.
36-8 Higashitamachi
Hamamatsu Shizuoka 430-0915
JP

00-08-DD (hex) Telena Communications, Inc.
0008DD (base 16) Telena Communications, Inc.
6725 Mesa Ridge Road
San Diego CA 92121
US

00-08-E1 (hex) Barix AG
0008E1 (base 16) Barix AG
Seefeld Strasse 303
Zürich ZH 8008
US

00-08-DA (hex) SofaWare Technologies Ltd.
0008DA (base 16) SofaWare Technologies Ltd.
3 Hilazon St.
Ramat-Gan 52522
IL

00-08-B4 (hex) SYSPOL
0008B4 (base 16) SYSPOL
4th Fl,SYSPOL B/D, Bangbae 4 Dong, Seoch

Seoul 137-064
US

00-08-B3 (hex) Fastwel
0008B3 (base 16) Fastwel
Profsoyuznaya 108,
Moscow 117313
RU

00-07-DD (hex) Cradle Technologies
0007DD (base 16) Cradle Technologies
3130 West
Warren Ave.
Fremont CA 94538
US

00-07-D5 (hex) 3e Technologies Int;., Inc.
0007D5 (base 16) 3e Technologies Int;., Inc.
15800 Crabbs Branch Way
Rockville MD 20855
US

00-07-DB (hex) Kirana Networks, Inc.
0007DB (base 16) Kirana Networks, Inc.
331 Newman Springs Road
Red Bank NJ 07701
US

00-07-D1 (hex) Spectrum Signal Processing Inc.
0007D1 (base 16) Spectrum Signal Processing Inc.
#200-2700 Production Way

CA

00-07-B4 (hex) Cisco Systems, Inc
0007B4 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-07-EF (hex) Lockheed Martin Tactical Systems
0007EF (base 16) Lockheed Martin Tactical Systems
3333 Pilot Knob Road
Eagan MN 55121
US

00-07-F4 (hex) Eletex Co., Ltd.
0007F4 (base 16) Eletex Co., Ltd.

8-2-56 Nankou-Higashi Suminoe-ku

JP

00-07-B3 (hex) Cisco Systems, Inc
0007B3 (base 16) Cisco Systems, Inc
80
West Tasman Drive
San Jose CA 94568
US

00-07-B5 (hex) Any One Wireless Ltd.
0007B5 (base 16) Any One Wireless Ltd.
Namseoul Bd., 8F, 1304-3
Seoul
KR

00-07-A2 (hex) Opteon Corporation
0007A2 (base 16) Opteon Corporation
70 Hastings Street
Wellesley MA 02481
US

00-07-B9 (hex) Ginganet Corporation
0007B9 (base 16) Ginganet Corporation
Kintetsu Shin Namba Building
Osaka Shi 1556-0017
JP

00-04-7F (hex) Chr. Mayr GmbH & Co. KG
00047F (base 16) Chr. Mayr GmbH & Co. KG
Eichenstraße 1

DE

00-04-7B (hex) Schlumberger
00047B (base 16) Schlumberger
Sugar Land Product Center
Sugar Land TX 77478
US

00-08-0C (hex) VDA Group S.p.a.
00080C (base 16) VDA Group S.p.a.
Viale Lino Zanussi 3
Pordenone Pordenone 33170
IT

00-08-04 (hex) ICA Inc.

000804 (base 16) ICA Inc.
542-1 Noguki

JP

00-07-FF (hex) Gluon Networks
0007FF
(base 16) Gluon Networks
5401 Old Redwood Hwy.
Petaluma CA 94954
US

00-08-29 (hex) TOKYO ELECTRON DEVICE NAGASAKI LIMITED
000829 (base 16) TOKYO ELECTRON DEVICE NAGASAKI LIMITED
6-42 Tsukuba-machi, Isahaya-shi
Nagasaki Kyushu 854-0065
JP

00-08-1B (hex) Windigo Systems
00081B (base 16) Windigo Systems
2210 O'Toole Ave. #200
San Jose CA 95131
US

00-08-57 (hex) Polaris Networks, Inc.
000857 (base 16) Polaris Networks, Inc.
6810 Santa Teresa Blvd.
San Jose CA 95119
US

00-07-F7 (hex) Galtronics
0007F7 (base 16) Galtronics
4645 East Cotton Center Blvd.
Phoenix AZ 85040
US

00-07-4B (hex) Daihen Corporation
00074B (base 16) Daihen Corporation
2-1-11 Tagawa Yodogawa-ku

JP

00-07-4A (hex) Carl Valentin GmbH
00074A (base 16) Carl Valentin GmbH
Neckarstrabe 78-80

DE

00-07-3C (hex) Telecom Design
00073C (base 16) Telecom Design
Voie
Romaine, Zone de Remora

FR

00-07-36 (hex) Data Video Technologies Co., Ltd.
000736 (base 16) Data Video Technologies Co., Ltd.
7F, No. 352, Sec. 2
Taipei Hsien
TW

00-07-8B (hex) Wegener Communications, Inc.
00078B (base 16) Wegener Communications, Inc.
11350 Technology Circle
Duluth GA 30097
US

00-07-83 (hex) SynCom Network, Inc.
000783 (base 16) SynCom Network, Inc.
4F, No. 31, Hsintai Road, Chupei City,

TW

00-07-89 (hex) Allradio Co., Ltd
000789 (base 16) Allradio Co., Ltd
76, Deokcheon-ro 34beon-gil, Manan-gu
Anyang-si,Gyeonggi-do Republic of Korea 430-803
KR

00-07-87 (hex) Idea System Co., Ltd.
000787 (base 16) Idea System Co., Ltd.
4-1-21 Shinmei-cho Okaya-shi

JP

00-07-85 (hex) Cisco Systems, Inc
000785 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-07-55 (hex) Lafon
000755 (base 16) Lafon
44
Avenue Victor Meunier
Bassens 33530

FR

00-07-59 (hex) Boris Manufacturing Corp.
000759 (base 16) Boris Manufacturing Corp.
PO Box 601
Castle Point NY 12511
US

00-07-51 (hex) m-u-t AG
000751 (base 16) m-u-t AG
Messgeräte für Medizin- und Umwelttechnik
Wedel 22880
DE

00-07-50 (hex) Cisco Systems, Inc
000750 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-07-42 (hex) Ormazabal
000742 (base 16) Ormazabal
Parque Tecnologico 104
48170 Zamudio, Bizkaia
ES

00-07-38 (hex) Young Technology Co., Ltd.
000738 (base 16) Young Technology Co., Ltd.
D-604, Sigma-II Officetel,
Sungnam-si, Kyeonggi-do 763-741
KR

00-07-29 (hex) Kistler Instrumente AG
000729 (base 16) Kistler Instrumente AG
Eulachstrasse 22

CH

00-07-2A (hex) Innovance Networks
00072A (base 16) Innovance Networks
19 Fairmont Avenue

CA

00-07-75 (hex) Valence Semiconductor, Inc.
000775 (base 16) Valence Semiconductor, Inc.
41 Discovery

Irvine CA 92618
US

00-07-7F (hex) J Communications Co., Ltd.
00077F (base 16) J Communications Co., Ltd.
124-4 Ojeon-Dong, Ulwang-City

KR

00-07-71 (hex) Embedded System Corporation
000771 (base 16) Embedded System Corporation
13-5, Takadanobaba 3-chome,

JP

00-07-70 (hex) Ubiquoss Inc
000770 (base 16) Ubiquoss Inc
Ubiquoss B/D, 68, Pangyo-ro 255beon-gil,

KR

00-07-0D (hex) Cisco Systems, Inc
00070D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-07-0E (hex) Cisco Systems, Inc
00070E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-07-0B (hex) Novabase SGPS, SA
00070B (base 16) Novabase SGPS, SA
Av. D Joao II, Lote 1.03.2.3
Lisboa 1998-031
PT

00-07-10 (hex) Adax,
Inc.
000710 (base 16) Adax, Inc.
614 Bancroft Way
Berkeley CA 94556
US

00-07-64 (hex) YoungWoo Telecom Co. Ltd.
000764 (base 16) YoungWoo Telecom Co. Ltd.

3F, Sehwa B/D, 355-1
Sungnam-Si Kyungki-Do
KR

00-07-66 (hex) Chou Chin Industrial Co., Ltd.
000766 (base 16) Chou Chin Industrial Co., Ltd.
9F, #35, Chiau An St. Chung Ho City,

TW

00-07-61 (hex) 29530
000761 (base 16) 29530
EPFL - Quartier de l'Innovation
Lausanne CH 1015
CH

00-07-93 (hex) Shin Satellite Public Company Limited
000793 (base 16) Shin Satellite Public Company Limited
41/103 Rattanathibet Road,

TH

00-07-96 (hex) LSI Systems, Inc.
000796 (base 16) LSI Systems, Inc.
10-1 Minami-kurokawa,
Kanagawa 215-0034
JP

00-07-19 (hex) Mobiis Co., Ltd.
000719 (base 16) Mobiis Co., Ltd.
277-1, Shinhwa Bldg. 4F
Seoul,
KR

00-06-C4 (hex) Piolink Inc.
0006C4
(base 16) Piolink Inc.
IT Castle 1-401, 550-1 Gasan-dong,
Seoul 153-803
KR

00-06-B5 (hex) Source Photonics, Inc.
0006B5 (base 16) Source Photonics, Inc.
20550 Nordhoff St.
Chatsworth CA 91311
US

00-06-A5 (hex) PINON Corp.

0006A5 (base 16) PINON Corp.
Axis Gotanda Bldg.7F-701
Tokyo 141-0031
JP

00-06-9D (hex) Petards Ltd
00069D (base 16) Petards Ltd
390 Princesway, Team Valley
Gateshead Tyne and Wear NE11 OTU
GB

00-06-F8 (hex) The Boeing Company
0006F8 (base 16) The Boeing Company
5731 W. Las Positas Blvd.
Pleasanton CA 94588
US

00-06-FB (hex) Hitachi Printing Solutions, Ltd.
0006FB (base 16) Hitachi Printing Solutions, Ltd.
1060, Takeda Hitachinaka-City
312-8502
JP

00-06-FC (hex) Fnet Co., Ltd.
0006FC (base 16) Fnet Co., Ltd.
KFSB Bldg. 10th F. 16-2
Seoul
KR

00-06-F4 (hex) Prime Electronics & Satellitics Inc.
0006F4 (base
16) Prime Electronics & Satellitics Inc.
69,Tung-Yuan Rd
Chung-Li City Tao-Yuan County 32000
TW

00-06-EE (hex) Shenyang Neu-era Information & Technology Stock Co., Ltd
0006EE (base 16) Shenyang Neu-era Information & Technology Stock Co., Ltd
8/F, the 21st Century Building,
Dvlpmnt Zone Shenyang,
CN

00-06-E8 (hex) Optical Network Testing, Inc.
0006E8 (base 16) Optical Network Testing, Inc.
55 Merchant St.
Honolulu HI 96813
US

00-06-BF (hex) Accella Technologies Co., Ltd.
0006BF (base 16) Accella Technologies Co., Ltd.
Rm 512 No. 680 Gui Ping Rd.
Shanghai 200233
CN

00-06-BA (hex) Westwave Communications
0006BA (base 16) Westwave Communications
463 Aviation Blvd.
Santa Rosa CA 95403
US

00-06-BE (hex) Baumer Optronic GmbH
0006BE (base 16) Baumer Optronic GmbH
Badstraße 30

DE

00-06-DA (hex) ITRAN Communications Ltd.
0006DA (base 16) ITRAN Communications
Ltd.
1 Azrieli Center,
Tel Aviv 67021 67021
IL

00-06-D0 (hex) Elgar Electronics Corp.
0006D0 (base 16) Elgar Electronics Corp.
9250 Brown Deer Rd.
San Diego CA 92121
US

00-06-CC (hex) JMI Electronics Co., Ltd.
0006CC (base 16) JMI Electronics Co., Ltd.
Nanyang B/D 3F, 25-4
Seoul 140-080
KR

00-06-E2 (hex) Ceemax Technology Co., Ltd.
0006E2 (base 16) Ceemax Technology Co., Ltd.
5f-7, 736, Chung Cheng Rd.,

TW

00-06-E1 (hex) Techno Trade s.a
0006E1 (base 16) Techno Trade s.a
732a Chaussee de Bruxelles

BE

00-06-90 (hex) Euracom Communication GmbH
000690 (base 16) Euracom Communication GmbH
Franklinstraße 14

DE

00-06-A8 (hex) KC Technology, Inc.
0006A8 (base 16) KC Technology, Inc.
1900 McCarthy Blvd.
Milpitas CA 95035
US

00-06-A0 (hex) Mx Imaging
0006A0 (base 16) Mx Imaging
2894 Columbia Street
Torrance CA
90503
US

00-06-7E (hex) WinCom Systems, Inc.
00067E (base 16) WinCom Systems, Inc.
10900 World Trade Blvd.
Morrisville NC 27560
US

00-06-30 (hex) Adtranz Sweden
000630 (base 16) Adtranz Sweden
Dept. TCC/TH

SE

00-06-37 (hex) Toptrend-Meta Information (ShenZhen) Inc.
000637 (base 16) Toptrend-Meta Information (ShenZhen) Inc.
2/F, Bldg. 3, Section A, Nor-East Zone

CN

00-06-2E (hex) Aristos Logic Corp.
00062E (base 16) Aristos Logic Corp.
27051 Towne Centre Dr.
Foothill Ranch CA 92610
US

00-06-25 (hex) The Linksys Group, Inc.
000625 (base 16) The Linksys Group, Inc.
17401 Armstrong Ave.
Irvine CA 92614

US

00-06-27 (hex) Uniwide Technologies, Inc.
000627 (base 16) Uniwide Technologies, Inc.
Korea Development Bank B/D 5th Flr
Taejon 302-122,
KR

00-06-24 (hex) Gentner Communications Corp.
000624 (base 16) Gentner Communications Corp.
1825
Research Way
Salt Lake City UT 84119
US

00-06-2C (hex) Bivio Networks
00062C (base 16) Bivio Networks
4457 Willow Road,
Pleasanton CA 94588
US

00-06-60 (hex) NADEX Co., Ltd.
000660 (base 16) NADEX Co., Ltd.
1 Omiyamae, Tokushige,
Aichi 481-0038
JP

00-06-4E (hex) Broad Net Technology Inc.
00064E (base 16) Broad Net Technology Inc.
5F, No.58, Lane 188, Rui Kuang Road

TW

00-06-2D (hex) TouchStar Technologies, L.L.C.
00062D (base 16) TouchStar Technologies, L.L.C.
5147 South Garnett Road
Tulsa OK 74146
US

00-06-46 (hex) ShenZhen XunBao Network Technology Co Ltd
000646 (base 16) ShenZhen XunBao Network Technology Co Ltd
F3, R2-A Building, South District
Shen Zhen
CN

00-06-4B (hex) Alexon Co., Ltd.
00064B (base 16) Alexon Co., Ltd.
3-207-1 Teramoto,

JP

00-05-FD (hex) PacketLight Networks Ltd.
0005FD (base 16) PacketLight
Networks Ltd.
27 Habarzel St.
Tel-Aviv 69710
IL

00-05-E4 (hex) Red Lion Controls Inc.
0005E4 (base 16) Red Lion Controls Inc.
20 Willow Springs Circle
York PA 17402
US

00-05-F2 (hex) Power R, Inc.
0005F2 (base 16) Power R, Inc.
756 Aloha St.
Seattle WA 98109
US

00-05-F3 (hex) Webyn
0005F3 (base 16) Webyn
26 Rue Oes Gaudines

FR

00-06-01 (hex) Otanikeiki Co., Ltd.
000601 (base 16) Otanikeiki Co., Ltd.
2-10-23 Hikari-Machi
732-0052
JP

00-05-DF (hex) Electronic Innovation, Inc.
0005DF (base 16) Electronic Innovation, Inc.
12731 Cannington Way SW
Calgary, AB T2W 1Z7
CA

00-05-E0 (hex) Empirix Corp.
0005E0 (base 16) Empirix Corp.
205 Lowell St.
Wilmington MA 01887
US

00-06-21 (hex) Hinox, Co., Ltd.
000621 (base 16) Hinox, Co., Ltd.

15-7 3-chome, Sennin-cho,
193-0835
JP

00-06-1C (hex) Hoshino Metal Industries,
Ltd.
00061C (base 16) Hoshino Metal Industries, Ltd.
645 Yamanokami, Yabutsuka,
379-2302
JP

00-06-23 (hex) MGE UPS Systems France
000623 (base 16) MGE UPS Systems France
140 Avenue Jean Kuntzmann

FR

00-06-0B (hex) Artesyn Embedded Technologies
00060B (base 16) Artesyn Embedded Technologies
2900 S. Diablo Way Suite 190
Tempe AZ 85282
US

00-06-05 (hex) Inncom International, Inc.
000605 (base 16) Inncom International, Inc.
P.O. Box 1060
Old Lyme CT 06371
US

00-05-FA (hex) IPOptical, Inc.
0005FA (base 16) IPOptical, Inc.
45940 Horseshoe Drive
Dulles VA 20166
US

00-05-E5 (hex) Renishaw PLC
0005E5 (base 16) Renishaw PLC
New Mills, Wotton-under-Edge

GB

00-05-F5 (hex) Geospace Technologies
0005F5 (base 16) Geospace Technologies
7007 Pinemont
Houston TX 77040
US

00-06-6C (hex) Robinson Corporation

00066C (base 16) Robinson
Corporation
12F, No. 278 Ho Ping E. Rd.,
Taipei
TW

00-06-66 (hex) Roving Networks
000666 (base 16) Roving Networks
809 University Avenue
Los Gatos CA 95032
US

00-06-67 (hex) Tripp Lite
000667 (base 16) Tripp Lite
1111 W. 35th Street
Chicago IL 60609
US

00-06-15 (hex) Kimoto Electric Co., Ltd.
000615 (base 16) Kimoto Electric Co., Ltd.
3-1 Funahashi-Cho,
543-0024
JP

00-06-0A (hex) Blue2space
00060A (base 16) Blue2space
Arstaangsv. 9

SE

00-06-3C (hex) Intrinsyc Software International Inc.
00063C (base 16) Intrinsyc Software International Inc.
885 Dunsmuir Street, Suite 380
Vancouver B.C. V6C 1N5
CA

00-06-77 (hex) SICK AG
000677 (base 16) SICK AG
Erwin-Sick Str.1
Waldkirch D-79183
DE

00-06-79 (hex) Konami Corporation
000679 (base 16) Konami Corporation
11-14-5 Akasaka, Minato-ku,

JP

00-05-66 (hex) Secui.com
Corporation
000566 (base 16) Secui.com Corporation
17th Fl. Samsung Yeoksam Bldg.
Seoul 135-080
KR

00-05-6C (hex) Hung Chang Co., Ltd.
00056C (base 16) Hung Chang Co., Ltd.
1385-14, Juan-Dong,

KR

00-05-5F (hex) Cisco Systems, Inc
00055F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-05-5D (hex) D-LINK SYSTEMS, INC.
00055D (base 16) D-LINK SYSTEMS, INC.
53 Discover Dr.
Irvine CA 92618
US

00-05-61 (hex) nac Image Technology, Inc.
000561 (base 16) nac Image Technology, Inc.
8-7 Sanban-cho, Chiyoda-ku,

JP

00-05-63 (hex) J-Works, Inc.
000563 (base 16) J-Works, Inc.
12328 Gladstone St. #1
Sylmor CA 91342
US

00-05-57 (hex) Agile TV Corporation
000557 (base 16) Agile TV Corporation
333 Ravenswood Ave.,
Menlo Park CA 94025
US

00-05-5B (hex) Charles Industries, Ltd.
00055B (base 16) Charles
Industries, Ltd.
5600 Apollo Dr.
Rolling Meadows IL 60008

US

00-05-54 (hex) Rangestar Wireless
000554 (base 16) Rangestar Wireless
9565 Soquel Drive, Suite 100
Aptos CA 95003
US

00-05-53 (hex) DVC Company, Inc.
000553 (base 16) DVC Company, Inc.
10200 Hwy 290 W.
Austin TX 78236
US

00-05-4B (hex) Eaton Automation AG
00054B (base 16) Eaton Automation AG
Spinnereistrasse 8
St.Gallen 9008
CH

00-05-83 (hex) ImageCom Limited
000583 (base 16) ImageCom Limited
Cedars Park, Cedars Road,
SL6 1RZ
GB

00-05-6F (hex) Innomedia Technologies Pvt. Ltd.
00056F (base 16) Innomedia Technologies Pvt. Ltd.
#3278, 12th Main Road

IN

00-05-74 (hex) Cisco Systems, Inc
000574 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-05-67 (hex) Etymonic Design, Inc.
000567 (base 16) Etymonic Design, Inc.
41 Byron Avenue

NOL 1GO
CA

00-05-65 (hex) Tailyn Communication Company Ltd.
000565 (base 16) Tailyn Communication Company Ltd.
No. 62, Lane 205, Nan-San Road,

Taoyuan Hsien
TW

00-05-CE (hex) Prolink Microsystems Corporation
0005CE (base 16) Prolink Microsystems Corporation
6F, No. 349, Yang-Kuang St.
Nei-Hu Taipei,
TW

00-05-C2 (hex) Soronti, Inc.
0005C2 (base 16) Soronti, Inc.
12159 Business Park Dr, suite 140
Draper Utah 84020
US

00-05-7C (hex) RCO Security AB
00057C (base 16) RCO Security AB
Box 705

SE

00-05-D8 (hex) Arescom, Inc.
0005D8 (base 16) Arescom, Inc.
3541 Gateway Blvd.
Fremont CA 94538
US

00-05-DE (hex) Gi Fone Korea, Inc.
0005DE (base 16) Gi Fone Korea, Inc.
Twin Bldg. 4th Fl,
Seoul,
KR

00-05-C4 (hex) Telect, Inc.
0005C4 (base 16) Telect, Inc.
2111 N. Molter Road
Liberty Lake WA 99019
US

00-05-D4 (hex) FutureSmart
Networks, Inc.
0005D4 (base 16) FutureSmart Networks, Inc.
6155 Almaden Expressway
San Jose CA 95120
US

00-05-8E (hex) Flextronics International GmbH & Co. Nfg. KG
00058E (base 16) Flextronics International GmbH & Co. Nfg. KG

Schrackgasse 9-15
Kindberg 8650
AT

00-05-94 (hex) HMS Industrial Networks
000594 (base 16) HMS Industrial Networks
PO Box 4126
SE30004 SE
SE

00-05-9D (hex) Daniel Computing Systems, Inc.
00059D (base 16) Daniel Computing Systems, Inc.
3208 8th Avenue NE #118
T2A 7V8
CA

00-05-A4 (hex) Lucid Voice Ltd.
0005A4 (base 16) Lucid Voice Ltd.
5 Jabotinski Street

IL

00-05-B3 (hex) Asahi-Engineering Co., Ltd.
0005B3 (base 16) Asahi-Engineering Co., Ltd.
3-6-12-2 Gakuenhigashi-cho
Tokyo 187-0043
JP

00-05-A5 (hex) KOTT
0005A5 (base 16) KOTT
Suite 305 Daeha B/D
135-080
KR

00-05-A3 (hex) QEI, Inc.
0005A3
(base 16) QEI, Inc.
60 Fadem Road
Springfield NJ 07081
US

00-05-9E (hex) Zinwell Corporation
00059E (base 16) Zinwell Corporation
7F, No.512, Yuan-Shan Road

TW

00-04-F6 (hex) Amphus

0004F6 (base 16) Amphus
2372 Qume Drive, #F
San Jose CA 95131
US

00-04-F4 (hex) Infinite Electronics Inc.
0004F4 (base 16) Infinite Electronics Inc.
No.478-1, Sec 2

TW

00-04-F1 (hex) WhereNet
0004F1 (base 16) WhereNet
107 W. McKinney Avenue
Rogersville TN 37857
US

00-05-37 (hex) Nets Technology Co., Ltd.
000537 (base 16) Nets Technology Co., Ltd.
#B1 YungJun Bldg.
Seoul 135-090 135-090
KR

00-05-32 (hex) Cisco Systems, Inc
000532 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-05-36 (hex) Danam Communications, Inc.
000536 (base 16) Danam Communications, Inc.
900-3, Hokye-dong, Dongan-gu,

KR

00-05-21
(hex) Control Microsystems
000521 (base 16) Control Microsystems
48 Steacie Drive
Ottawa Ontario K2K 2A9
CA

00-05-1F (hex) Taijin Media Co., Ltd.
00051F (base 16) Taijin Media Co., Ltd.
640-8 Tungchon-Dong
Seoul 157-030
KR

00-05-23 (hex) AVL List GmbH
000523 (base 16) AVL List GmbH
Hans List Platz 1
Graz 8020
AT

00-04-EC (hex) Memobox SA
0004EC (base 16) Memobox SA
1, Place Dame Suzanne

FR

00-04-E4 (hex) Daeryung Ind., Inc.
0004E4 (base 16) Daeryung Ind., Inc.
#219-6, Kasan Dong,
Seoul Seoul KOREA
KR

00-04-E2 (hex) SMC Networks, Inc.
0004E2 (base 16) SMC Networks, Inc.
6 Hughes
Irvine CA 92618
US

00-05-0C (hex) Network Photonics, Inc.
00050C (base 16) Network Photonics, Inc.
451 Aviation Boulevard
Santa Rosa CA 95403
US

00-05-11 (hex) Complementary Technologies Ltd
000511 (base 16) Complementary Technologies Ltd
Comtech
House, 28 Manchester Road
BL5 3QJ
GB

00-05-06 (hex) Reddo Networks AB
000506 (base 16) Reddo Networks AB
Livdjursgatan 4

SE

00-05-0A (hex) ICS Spa
00050A (base 16) ICS Spa
Via Romano AL

IT

00-05-42 (hex) Otari, Inc.
000542 (base 16) Otari, Inc.
4-33-3 Kokuryo-cho,

JP

00-05-26 (hex) IPAS GmbH
000526 (base 16) IPAS GmbH
Hölscherstr. 27

DE

00-04-2F (hex) International Communications Products, Inc.
00042F (base 16) International Communications Products, Inc.
4325 Woodland Park Drive
West Melbourne FL 32904
US

00-04-29 (hex) Pixord Corporation
000429 (base 16) Pixord Corporation
6F, No. 12, Innovation 1st Rd.,
TAIWAN TAIWAN R.O.C.
TW

00-04-26 (hex) Autosys
000426 (base 16) Autosys
202 Ilsinpastel,
Seoul Seoul KOREA
KR

00-04-21 (hex) Ocular Networks
000421 (base 16) Ocular Networks
12700,
Fair Lakes Circle
Fairfax VA 22033
US

00-04-24 (hex) TMC s.r.l.
000424 (base 16) TMC s.r.l.
202 Via A. Costa

IT

00-04-1D (hex) Corega of America
00041D (base 16) Corega of America
P.O. Box 159
Bothell WA 98041-0159

US

00-04-1A (hex) Ines Test and Measurement GmbH & CoKG
00041A (base 16) Ines Test and Measurement GmbH & CoKG
An der Mühlenaue 5
Bad Nenndorf 31542
DE

00-04-1E (hex) Shikoku Instrumentation Co., Ltd.
00041E (base 16) Shikoku Instrumentation Co., Ltd.
777, Oosachou, Zentsuujishi,

JP

00-04-CB (hex) Tdsoft Communication, Ltd.
0004CB (base 16) Tdsoft Communication, Ltd.
60 Medinat Hayehudim St.

IL

00-04-CC (hex) Peek Traffic B.V.
0004CC (base 16) Peek Traffic B.V.
Postbus 2542
The
NL

00-04-C8 (hex) LIBA Maschinenfabrik GmbH
0004C8 (base 16) LIBA Maschinenfabrik GmbH
PO Box 1120

DE

00-04-BF
(hex) VersaLogic Corp.
0004BF (base 16) VersaLogic Corp.
12100 SW Tualatin Rd
Tualatin OR 97062
US

00-04-51 (hex) Medrad, Inc.
000451 (base 16) Medrad, Inc.
One Medrad Drive
Indianola PA 15051
US

00-04-53 (hex) YottaYotta, Inc.
000453 (base 16) YottaYotta, Inc.
6020- 104 Street

Edmonton, AB T6H 5S4
CA

00-04-50 (hex) DMD Computers SRL
000450 (base 16) DMD Computers SRL
Via Monviso, 14

IT

00-04-43 (hex) Agilent Technologies, Inc.
000443 (base 16) Agilent Technologies, Inc.
5301 Stevens Creek Boulevard
Santa Clara CA 95051
US

00-04-49 (hex) Mapletree Networks
000449 (base 16) Mapletree Networks
315 Norwood Park South
Norwood MA 02062
US

00-04-5A (hex) The Linksys Group, Inc.
00045A (base 16) The Linksys Group, Inc.
17401 Armstrong Ave.
Irvine CA 92614
US

00-04-63 (hex) Bosch Security Systems
000463 (base 16) Bosch Security
Systems
850 Greenfield Road
Lancaster PA 17601-5874
US

00-04-5C (hex) Mobiwave Pte Ltd
00045C (base 16) Mobiwave Pte Ltd
Blk 16, Kallang Place
339156
SG

00-04-15 (hex) Rasteme Systems Co., Ltd.
000415 (base 16) Rasteme Systems Co., Ltd.
886-2 Nihongi Nakagou-mura

JP

00-04-03 (hex) Nexsi Corporation
000403 (base 16) Nexsi Corporation

1959 Concourse Drive
San Jose CA 95131
US

00-04-06 (hex) Fa. Metabox AG
000406 (base 16) Fa. Metabox AG
Daimlerring 37,

DE

00-04-C3 (hex) CASTOR Informatique
0004C3 (base 16) CASTOR Informatique
2, Rue Du Kefir
94537 Orly Cedex
FR

00-04-B1 (hex) Signal Technology, Inc.
0004B1 (base 16) Signal Technology, Inc.
3rd. Fl. Dabo Bldg.
Seoul KOREA 138-110
KR

00-04-B5 (hex) Equitrac Corporation
0004B5 (base 16) Equitrac Corporation
1905 N.W. 82nd Avenue
Miami FL 33126
US

00-04-83
(hex) Deltron Technology, Inc.
000483 (base 16) Deltron Technology, Inc.
8F-3, No. 125, Lane 235
Taipei TAIWAN, R.O.C.
TW

00-04-82 (hex) Medialogic Corp.
000482 (base 16) Medialogic Corp.
0-3, Toyamaken-Sangyou

JP

00-04-67 (hex) Wuhan Research Institute of MII
000467 (base 16) Wuhan Research Institute of MII
88 Youkeyuan Road,
430074 430074 P.R.CHINA
CN

00-04-41 (hex) Half Dome Systems, Inc.

000441 (base 16) Half Dome Systems, Inc.
155 B-1 Moffet Park Drive
Sunnyvale CA 94089
US

00-03-C7 (hex) hopf Elektronik GmbH
0003C7 (base 16) hopf Elektronik GmbH
Nottebohmstraße 41
58511 Lüdenscheid
DE

00-03-C2 (hex) Solphone K.K.
0003C2 (base 16) Solphone K.K.
2-11-1 Kandatsukasa-cho
101-0048
JP

00-03-C6 (hex) ICUE Systems, Inc.
0003C6 (base 16) ICUE Systems, Inc.
17489 Gale Avenue
City of Industry CA 91748
US

00-03-BB (hex) Signal
Communications Limited
0003BB (base 16) Signal Communications Limited
Unit 217, 2/F, HKITC,
HONG KONG
HK

00-03-BE (hex) Netility
0003BE (base 16) Netility
298 South Sunnyvale Ave.
Sunnyvale CA 94086
US

00-03-F3 (hex) Dazzle Multimedia, Inc.
0003F3 (base 16) Dazzle Multimedia, Inc.
47211 Bayside Parkway
Fremont CA 94538
US

00-03-EC (hex) ICG Research, Inc.
0003EC (base 16) ICG Research, Inc.
775 B The Queens Way
M8Z 1N1
CA

00-03-E9 (hex) Akara Canada, Inc.
0003E9 (base 16) Akara Canada, Inc.
150 Katimavik Road
CANADA K2L 2N2
CA

00-03-E5 (hex) Hermstedt SG
0003E5 (base 16) Hermstedt SG
Carl-Reuther - Str. 3

DE

00-03-E8 (hex) Wavesight Limited
0003E8 (base 16) Wavesight Limited
13 Dencora Way
Luton Sundon Business Park LU3 3HP
GB

00-03-97 (hex) FireBrick Limited
000397 (base 16) FireBrick Limited
C/O Andrews & Arnold
Ltd,
Enterprise Court, Downmill Road Bracknell, Berks RG12 1QS
GB

00-03-98 (hex) WISI
000398 (base 16) WISI
Wilhelm-Sihn-Str. 5-7
D-75223 Niefern-Oeschelbronn
DE

00-03-9E (hex) Tera System Co., Ltd.
00039E (base 16) Tera System Co., Ltd.
Doosung B/F Rm 302
Republic of Korea
KR

00-03-92 (hex) Hyundai Teletek Co., Ltd.
000392 (base 16) Hyundai Teletek Co., Ltd.
B-501, Techno Park, 148 Yatap-dong,
KOREA Republic
KR

00-03-95 (hex) California Amplifier
000395 (base 16) California Amplifier
460 Calle San Pablo
Camarillo CA 93012
US

00-03-B4 (hex) Macrotek International Corp.
0003B4 (base 16) Macrotek International Corp.
2F, No. 28, Lane 46
Taipei Taipei TAIWAN
TW

00-03-A6 (hex) Traxit Technology, Inc.
0003A6 (base 16) Traxit Technology, Inc.
256 Great Road,
Littleton MA 01461
US

00-03-A4 (hex) Imation Corp.
0003A4 (base 16) Imation
Corp.
1 Imation Place
Oakdale MN 55128-3414
US

00-03-AB (hex) Bridge Information Systems
0003AB (base 16) Bridge Information Systems
717 Office Parkway
St. Louis MO 63141
US

00-03-F8 (hex) SanCastle Technologies, Inc.
0003F8 (base 16) SanCastle Technologies, Inc.
2107 North First Street
San Jose CA 95131
US

00-03-FA (hex) TiMetra Networks
0003FA (base 16) TiMetra Networks
500 Ellis St.
Mountain View CA 94043
US

00-03-FB (hex) ENEGATE Co.,Ltd.
0003FB (base 16) ENEGATE Co.,Ltd.
3-14-40 Senrioka,
Settsu-city Osaka 566-8686
JP

00-03-F6 (hex) Allegro Networks, Inc.
0003F6 (base 16) Allegro Networks, Inc.
6399 San Ignacio Avenue
San Jose CA 95119

US

00-03-CA (hex) MTS Systems Corp.
0003CA (base 16) MTS Systems Corp.
3001 Sheldon Drive
Cary, NC 27513
US

00-03-CB (hex) SystemGear Co., Ltd.
0003CB (base 16) SystemGear Co., Ltd.
1-9-14
Edobori
Osaka Nishi-ku 550-0002
JP

00-03-DF (hex) Desana Systems
0003DF (base 16) Desana Systems
1805 McCandless Ave.
Milpitas CA 95035
US

00-03-DA (hex) Takamisawa Cybernetics Co., Ltd.
0003DA (base 16) Takamisawa Cybernetics Co., Ltd.
Nakano Heiwa Bldg.

JP

00-03-D9 (hex) Secheron SA
0003D9 (base 16) Secheron SA
Untermattweg 8

CH

00-03-7F (hex) Atheros Communications, Inc.
00037F (base 16) Atheros Communications, Inc.
5480 Great America Parkway
Santa Clara CA 95054
US

00-02-F0 (hex) AME Optimedia Technology Co., Ltd.
0002F0 (base 16) AME Optimedia Technology Co., Ltd.
17F-2, 79 Hsin Tai Wu Road, Sec. 1,

TW

00-03-8E (hex) Atoga Systems, Inc.
00038E (base 16) Atoga Systems, Inc.
49026 Milmont Drive

Fremont CA 94538
US

00-03-7C (hex) Coax Media
00037C (base 16) Coax Media
1220 Oak Industrial Lane
Cumming GA 30041
US

00-03-0D
(hex) Uniwill Computer Corp.
00030D (base 16) Uniwill Computer Corp.
No. 24, Pei Yuan Rd., Chung
Li City
TW

00-03-09 (hex) Texcel Technology PLC
000309 (base 16) Texcel Technology PLC
Thames Road
ENGLAND
GB

00-03-03 (hex) JAMA Electronics Co., Ltd.
000303 (base 16) JAMA Electronics Co., Ltd.
10F, No. 222-1, Sec. 3
Taipei Hsien
TW

00-03-05 (hex) MSC Vertriebs GmbH
000305 (base 16) MSC Vertriebs GmbH
Design Center Aachen
AACHEN D-52076
DE

00-02-FE (hex) Viditec, Inc.
0002FE (base 16) Viditec, Inc.
520 Central Parkway E.
Plano TX 75074
US

00-01-9F (hex) ReadyNet
00019F (base 16) ReadyNet
6952 High Tech Drive
Midvale UT 84047
US

00-02-FF (hex) Handan BroadInfoCom
0002FF (base 16) Handan BroadInfoCom

5th Fl. Shinsung Plaza #697-11
Seoul
KR

00-03-27 (hex) HMS Industrial Networks
000327 (base 16) HMS
Industrial Networks
P O Box 4126
Halmstad Halland 300 04
SE

00-03-2E (hex) Scope Information Management, Ltd.
00032E (base 16) Scope Information Management, Ltd.
2F Chanwoo b/o 736 Youksang-dong,
Seoul 135-080
KR

00-03-29 (hex) F3, Inc.
000329 (base 16) F3, Inc.
2F, No. 7, Industry E. Rd. 9,
Hsinchu
TW

00-03-21 (hex) Reco Research Co., Ltd.
000321 (base 16) Reco Research Co., Ltd.
No. 47-1, Sec. 2,

TW

00-03-16 (hex) Nobell Communications, Inc.
000316 (base 16) Nobell Communications, Inc.
3410 Far West Blvd., Suite 240
Austin TX 78731
US

00-03-0F (hex) Digital China (Shanghai) Networks Ltd.
00030F (base 16) Digital China (Shanghai) Networks Ltd.
602-23, Haitai Building, 351 Guo Shoujin
Shanghai
CN

00-03-11 (hex) Micro Technology Co., Ltd.
000311 (base 16) Micro Technology Co., Ltd.
Suehiro Bldg.
101-0021
JP

00-03-1A (hex) Beijing

Broad Telecom Ltd., China
00031A (base 16) Beijing Broad Telecom Ltd., China
P.O. Box #147
Beijing 100876
CN

00-03-5B (hex) BridgeWave Communications
00035B (base 16) BridgeWave Communications
3350 Thomad Road
Santa Clara CA 95054
US

00-03-57 (hex) Intervoice-Brite, Inc.
000357 (base 16) Intervoice-Brite, Inc.
17811 Waterview Pkwy.
Dallas TX 75252
US

00-03-45 (hex) Routrek Networks Corporation
000345 (base 16) Routrek Networks Corporation
Nilssei Shin Mizonokuchi Bldg. 1F
23-0011
JP

00-02-E9 (hex) CS Systemes De Securite - C3S
0002E9 (base 16) CS Systemes De Securite - C3S
23, rue de Schwobsheim

FR

00-02-E5 (hex) Timeware Ltd.
0002E5 (base 16) Timeware Ltd.
Brookfield Grange
Lancs 042 GLB
GB

00-02-E0 (hex) ETAS GmbH
0002E0 (base 16) ETAS GmbH
Borsigstraße 10

DE

00-03-3F (hex) BigBand Networks, Ltd.
00033F
(base 16) BigBand Networks, Ltd.
3 Azrieli Towers

IL

00-03-68 (hex) Embedone Co., Ltd.
000368 (base 16) Embedone Co., Ltd.
Fl. 9 Annex Samhwan B/D. 17-26
Seoul 150-01
KR

00-02-F5 (hex) VIVE Synergies, Inc.
0002F5 (base 16) VIVE Synergies, Inc.
30 West Beaver Creek Road, Unit 101
L4B 3K1
CA

00-02-B7 (hex) Watanabe Electric Industry Co., Ltd.
0002B7 (base 16) Watanabe Electric Industry Co., Ltd.
6-16-19, Jingumae, Shibuya-ku

JP

00-02-AF (hex) TeleCruz Technology, Inc.
0002AF (base 16) TeleCruz Technology, Inc.
2391 Qume Dr.
San Jose CA 95131
US

00-02-A8 (hex) Air Link Technology
0002A8 (base 16) Air Link Technology
Bethel Bldg. 303
Seoul KOREA 137-130
KR

00-02-AB (hex) CTC Union Technologies Co., Ltd.
0002AB (base 16) CTC Union Technologies Co., Ltd.
8F No. 60 Zhouzi St.
Neihu Taipei 114
TW

00-02-A4 (hex) AddPac Technology
Co., Ltd.
0002A4 (base 16) AddPac Technology Co., Ltd.
3F Jeoung Am Bldg., 769-12
Seoul Seoul Korea
KR

00-02-A3 (hex) Hitachi Energy Switzerland Ltd
0002A3 (base 16) Hitachi Energy Switzerland Ltd
Bruggerstrasse 72
Baden 5400

CH

00-02-A0 (hex) Flatstack Ltd.
0002A0 (base 16) Flatstack Ltd.
1112 Budapest

HU

00-02-C3 (hex) Arelnet Ltd.
0002C3 (base 16) Arelnet Ltd.
3 Hayarden St.

IL

00-02-C8 (hex) Technocom Communications Technology (pte) Ltd
0002C8 (base 16) Technocom Communications Technology (pte) Ltd
189 Kaki Buckit Avenue 1
Singapore 416029
SG

00-02-B8 (hex) WHI KONSULT AB
0002B8 (base 16) WHI KONSULT AB
Scheelegatan 11
Stockholm SE-112 28
SE

00-02-BB (hex) Continuous Computing Corp
0002BB (base 16) Continuous Computing Corp
9380 Carroll Park Drive
San Diego CA 92121
US

00-02-BC (hex) LVL 7 Systems, Inc.
0002BC
(base 16) LVL 7 Systems, Inc.
13000 Weston Pkwy
Cary NC 27513
US

00-02-A9 (hex) RACOM, s.r.o.
0002A9 (base 16) RACOM, s.r.o.
Mirova 1283, Nove Mesto na Morave
592 31 Czech republic
CZ

00-02-B2 (hex) Cablevision
0002B2 (base 16) Cablevision
420 Crossways Park Drive West

Woodbury NY 11787
US

00-02-5B (hex) Cambridge Silicon Radio
00025B (base 16) Cambridge Silicon Radio
Unit 400, Science Park,
United Kingdom
GB

00-02-56 (hex) Alpha Processor, Inc.
000256 (base 16) Alpha Processor, Inc.
130 C Baker Ave. Ext.
Concord MA 01742
US

00-02-59 (hex) Tsann Kuen China (Shanghai)Enterprise Co., Ltd. IT Group
000259 (base 16) Tsann Kuen China (Shanghai)Enterprise Co., Ltd. IT Group
8F, #99, Huaihai Rd, East,
CHINA 200021
CN

00-02-51 (hex) Soma Networks, Inc.
000251 (base 16) Soma Networks, Inc.
650 Townsend St.
San Francisco CA 94103
US

00-02-6A
(hex) Cocess Telecom Co., Ltd.
00026A (base 16) Cocess Telecom Co., Ltd.
Research & Development Dept.
Seoul Seoul KOREA
KR

00-02-6C (hex) Philips CFT
00026C (base 16) Philips CFT
Building SAN 6
The
NL

00-02-62 (hex) Soyo Group Soyo Com Tech Co., Ltd
000262 (base 16) Soyo Group Soyo Com Tech Co., Ltd
5H. No. 21 Wu-gong 5 Rd,
Taipei Hsien Taiwan R.O.C.
TW

00-02-65 (hex) Virditech Co. Ltd.
000265 (base 16) Virditech Co. Ltd.

Hyundai Topics Blgd., 11th Fl
Seoul Seoul KOREA
KR

00-02-8A (hex) Ambit Microsystems Corporation
00028A (base 16) Ambit Microsystems Corporation
5F-1, 5 Hsin-An Road Hsinchu,
TAIWAN
TW

00-01-FA (hex) HOROSCAS
0001FA (base 16) HOROSCAS
26, LOUIS BLANC

FR

00-02-82 (hex) ViaClix, Inc.
000282 (base 16) ViaClix, Inc.
1400 Dell Ave., Suite B
Campbell CA 95008
US

00-02-85 (hex) Riverstone Networks
000285
(base 16) Riverstone Networks
5200 Great America Parkway
Santa Clara CA 95054
US

00-02-94 (hex) Tokyo Sokushin Co., Ltd.
000294 (base 16) Tokyo Sokushin Co., Ltd.
5-16-12 Nishi-Nippori

JP

00-02-96 (hex) Lectron Co,. Ltd.
000296 (base 16) Lectron Co,. Ltd.
9F, No.171, Sec. 2, Tatung Rd.,
Taiwan Taiwan R.O.C.
TW

00-02-8E (hex) Rapid 5 Networks, Inc.
00028E (base 16) Rapid 5 Networks, Inc.
180 Baytech Drive
San Jose CA 95134-2302
US

00-02-79 (hex) Control Applications, Ltd.

000279 (base 16) Control Applications, Ltd.
3 Tevuot Haarets St.

IL

00-02-4F (hex) IPM Datacom S.R.L.
00024F (base 16) IPM Datacom S.R.L.
Via Roma, 231
Naples
IT

00-02-3C (hex) Creative Technology, Ltd.
00023C (base 16) Creative Technology, Ltd.
31 International Business Park
Republic of
SG

00-02-2C (hex) ABB Bomem, Inc.
00022C (base 16) ABB Bomem,
Inc.
585, boul. Charest Est
Canada G1K 9H4
CA

00-02-D5 (hex) ACR
0002D5 (base 16) ACR
Cardoulines B2

FR

00-02-CE (hex) FoxJet, Inc.
0002CE (base 16) FoxJet, Inc.
2016 E. Randal Mill Rd. #409
Arlington TX 76011-8223
US

00-01-E1 (hex) Kinpo Electronics, Inc.
0001E1 (base 16) Kinpo Electronics, Inc.
No.147, Sec. 3, Beishen Rd
Shenkeng Dist. New Taipei City 222
TW

00-01-DA (hex) WINCOMM Corporation
0001DA (base 16) WINCOMM Corporation
2F, No. 3, Prosperity Road 1,
Hsinchu Taiwan
TW

00-01-D2 (hex) inXtron, Inc.
0001D2 (base 16) inXtron, Inc.
8F, No.52, MinQuan Road, Xindian Dist.
New Taipei City 23141
TW

00-01-C6 (hex) Quarry Technologies
0001C6 (base 16) Quarry Technologies
8 New England Executive Park
Burlington MA 01803
US

00-01-FF (hex) Data Direct Networks, Inc.
0001FF (base 16) Data Direct Networks, Inc.
9320 Lurline
Avenue
Chatsworth CA 91311
US

00-01-FC (hex) Keyence Corporation
0001FC (base 16) Keyence Corporation
1-3-14, Higashi-Nakajima,

JP

00-01-FD (hex) Digital Voice Systems, Inc.
0001FD (base 16) Digital Voice Systems, Inc.
234 Littleton Road
Westford MA 01886
US

00-01-EE (hex) Comtrol Europe, Ltd.
0001EE (base 16) Comtrol Europe, Ltd.
The Courtyard Studio
U.K.
GB

00-01-F0 (hex) Tridium, Inc.
0001F0 (base 16) Tridium, Inc.
3951 Westerre Parkway
Richmond VA 23233
US

00-01-F1 (hex) Innovative Concepts, Inc.
0001F1 (base 16) Innovative Concepts, Inc.
8200 Greensboro Drive
McLean VA 22102
US

00-02-2F (hex) P-Cube, Ltd.
00022F (base 16) P-Cube, Ltd.
P.O. Box 12331

IL

00-02-27 (hex) ESD Electronic System Design GmbH
000227 (base 16) ESD Electronic System Design GmbH
Vahrenwalder Str. 207
30 165 Hannover
DE

00-02-1D
(hex) Data General Communication Ltd.
00021D (base 16) Data General Communication Ltd.
Rm. 18C, Bldg. C, CEIEC Tower

CN

00-02-19 (hex) Paralon Technologies
000219 (base 16) Paralon Technologies
700 Fifth Ave, Suite 6101
Seattle WA 98104
US

00-02-10 (hex) Fenecom
000210 (base 16) Fenecom
7/F Kon-kuk University Alumni
Seoul Seoul Korea
KR

00-02-0B (hex) Native Networks, Inc.
00020B (base 16) Native Networks, Inc.
P.O. Box 7165

IL

00-02-18 (hex) Advanced Scientific Corp
000218 (base 16) Advanced Scientific Corp
1 Fl., No. 26, Industry East 9th Road
TAIWAN
TW

00-02-03 (hex) Woonsang Telecom, Inc.
000203 (base 16) Woonsang Telecom, Inc.
104-9, Munji-Dong, Yusong-Gu
KOREA

KR

00-01-F5 (hex) ERIM S.A.
0001F5 (base 16) ERIM S.A.
11 Av Republique

FR

00-01-CE (hex) Custom Micro Products, Ltd.
0001CE (base 16) Custom
Micro Products, Ltd.
450 Blandford Road
UNITED KINGDOM
GB

00-01-BB (hex) Frequentis
0001BB (base 16) Frequentis
SPITTELBREITENGASSE 34

AT

00-01-BC (hex) Brains Corporation
0001BC (base 16) Brains Corporation
2-27-8-4Fl TAMAGAWA

JP

00-01-C0 (hex) CompuLab, Ltd.
0001C0 (base 16) CompuLab, Ltd.
P.O. Box 66

IL

00-01-A0 (hex) Infinilink Corporation
0001A0 (base 16) Infinilink Corporation
1740 E. Garry Ave. - Ste. #206
Santa Ana CA 92705
US

00-01-96 (hex) Cisco Systems, Inc
000196 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-01-7C (hex) AG-E GmbH
00017C (base 16) AG-E GmbH
Dennewartstraße 27

DE

00-01-E2 (hex) Ando Electric Corporation
0001E2 (base 16) Ando Electric Corporation
19-7, Kamata 4-Chrome, Ota-ku

JP

00-01-D3 (hex) PAXCOMM, Inc.
0001D3 (base 16) PAXCOMM, Inc.
7th
F The Corp. Center
KOREA
KR

00-01-99 (hex) HeiSei Electronics
000199 (base 16) HeiSei Electronics
5/7 Alley 8, Lane 45
TAIWAN
TW

00-01-72 (hex) TechnoLand Co., LTD.
000172 (base 16) TechnoLand Co., LTD.
3-17-11 Akebono-cho

JP

00-30-6C (hex) Hitex Holding GmbH
00306C (base 16) Hitex Holding GmbH
Greschbachstraße 12
76229 Karlsruhe
DE

00-30-8B (hex) Brix Networks
00308B (base 16) Brix Networks
300 Concord Road
Billerica MA 01821
US

00-01-77 (hex) EDSL
000177 (base 16) EDSL
Habarzel 1 st
ISRAEL 69710
IL

00-01-4D (hex) Shin Kin Enterprises Co., Ltd
00014D (base 16) Shin Kin Enterprises Co., Ltd

7, FU Hsing St. Tue Cheng Ind.
TAIWAN TAIWAN R.O.C.
TW

00-01-10 (hex) Gotham Networks
000110 (base 16) Gotham Networks
15 Discovery Way
Acton MA 01720
US

00-01-12 (hex) Shark Multimedia Inc.
000112 (base
16) Shark Multimedia Inc.
48890 Milmont Drive #101-D
Fremont CA 94538
US

00-01-16 (hex) Netspect Technologies, Inc.
000116 (base 16) Netspect Technologies, Inc.
3945 Freedom Circle - Ste. #360
Santa Clara CA 95054
US

00-01-08 (hex) AVLAB Technology, Inc.
000108 (base 16) AVLAB Technology, Inc.
3F-1, No. 134, Sec. 3
Hsin Tien, Taipei
TW

00-06-2B (hex) INTRASERVER TECHNOLOGY
00062B (base 16) INTRASERVER TECHNOLOGY
SEVEN OCTOBER HILL RD.
HOLLISTON MA 01746
US

00-01-00 (hex) EQUIP'TRANS
000100 (base 16) EQUIP'TRANS
31 rue Paul Cezanne
LA ROCHETTE 77000
FR

00-B0-9D (hex) Point Grey Research Inc.
00B09D (base 16) Point Grey Research Inc.
305-1847 West Broadway
Vancouver British Columbia V6J 1Y6
CA

00-B0-6D (hex) Jones Futurex Inc.

00B06D (base 16) Jones Futurex Inc.
3715 Atherton Road
Rocklin CA 95765
US

00-01-6E (hex) Conklin Corporation
00016E
(base 16) Conklin Corporation
6141 Crooked Creek Road
Norcross GA 30092-3193
US

00-01-74 (hex) CyberOptics Corporation
000174 (base 16) CyberOptics Corporation
5900 Golden Hills Drive
Golden Valley MN 55416
US

00-01-5E (hex) BEST TECHNOLOGY CO., LTD.
00015E (base 16) BEST TECHNOLOGY CO., LTD.
7F, Haesung B/D
KOREA
KR

00-01-61 (hex) Meta Machine Technology
000161 (base 16) Meta Machine Technology
400 Silver Cedar Court - ste. #220
Chapel Hill NC 27514
US

00-01-55 (hex) Promise Technology, Inc.
000155 (base 16) Promise Technology, Inc.
4F, 1, Prosperity 1st Road
TAIWAN
TW

00-01-1E (hex) Precidia Technologies, Inc.
00011E (base 16) Precidia Technologies, Inc.
10A Hearst Way
Kanata Ontario K2M-2C4
CA

00-01-13 (hex) OLYMPUS CORPORATION
000113 (base 16) OLYMPUS CORPORATION
2-3 Kuboyama-cho, Hachioji-shi
Tokyo 192-8512 j
JP

00-01-9D
(hex) E-Control Systems, Inc.
00019D (base 16) E-Control Systems, Inc.
9420 Lurline Ave., Unite
Chatsworth CA 91311
US

00-01-8B (hex) NetLinks Co., Ltd.
00018B (base 16) NetLinks Co., Ltd.
3F Dscom Bldg., 238-3
KOREA
KR

00-01-8D (hex) AudeSi Technologies
00018D (base 16) AudeSi Technologies
Suite 180, 6815
AB
CA

00-01-A1 (hex) Mag-Tek, Inc.
0001A1 (base 16) Mag-Tek, Inc.
1710 Apollo Court
Seal Beach CA 90740
US

00-01-86 (hex) Uwe Disch
000186 (base 16) Uwe Disch
Eichenhainstraße 14

DE

00-01-A6 (hex) Scientific-Atlanta Arcodan A/S
0001A6 (base 16) Scientific-Atlanta Arcodan A/S
Avgustenborg Landevej 7

DK

00-01-2E (hex) PC Partner Ltd.
00012E (base 16) PC Partner Ltd.
Rm 1901-1908, 19/F, Shatin Galleria

CN

00-01-3E (hex) Ascom Tateco AB
00013E (base 16) Ascom Tateco AB
Box 8783

SE

00-01-32
(hex) Dranetz - BMI
000132 (base 16) Dranetz - BMI
1000 New Durham Road
Edison NJ 08818
US

00-01-3B (hex) BNA SYSTEMS
00013B (base 16) BNA SYSTEMS
1637 S. Main Street
Milpitas CA 95035
US

00-01-34 (hex) Selectron Systems AG
000134 (base 16) Selectron Systems AG
Bernstreasse 70

CH

00-30-32 (hex) MagicRam, Inc.
003032 (base 16) MagicRam, Inc.
1850 Beverly Blvd.
Los Angeles CA 90057
US

00-30-EA (hex) TeraForce Technology Corporation
0030EA (base 16) TeraForce Technology Corporation
1100 EXECUTIVE DRIVE
RICHARDSON TX 75081
US

00-30-69 (hex) IMPACCT TECHNOLOGY CORP.
003069 (base 16) IMPACCT TECHNOLOGY CORP.
2F, NO. 12, R&D RD. II
TAIWAN TAIWAN R.O.C.
TW

00-30-C3 (hex) FLUECKIGER ELEKTRONIK AG
0030C3 (base 16) FLUECKIGER ELEKTRONIK AG
KIRCHBARGSTRASSE 201

CH

00-30-5A (hex) TELGEN CORPORATION
00305A (base
16) TELGEN CORPORATION
3101 SOVEREIGN DR. - STE.

LANSING MI 48911
US

00-30-8A (hex) NICOTRA SISTEMI S.P.A
00308A (base 16) NICOTRA SISTEMI S.P.A
41 Via Primo Maggio
Baranzate (MI) 20021
IT

00-30-72 (hex) Intellibyte Inc.
003072 (base 16) Intellibyte Inc.
Canada Trust Tower - BCE Place
Toronto Ontario M5J 2S1
CA

00-30-06 (hex) SUPERPOWER COMPUTER
003006 (base 16) SUPERPOWER COMPUTER
ELECTRONICS CO., LTD.
Taipei 248
TW

00-30-38 (hex) XCP, INC.
003038 (base 16) XCP, INC.
40 ELM STREET
DRYDEN NY 13053
US

00-30-79 (hex) CQOS, INC.
003079 (base 16) CQOS, INC.
25 MAUCHLY - STE. #329
IRVINE CA 92618
US

00-30-9B (hex) Smartware
00309B (base 16) Smartware
49 AV Aristide
92160 Antony
FR

00-30-45 (hex) Village Networks, Inc. (VNI)
003045 (base 16) Village Networks, Inc. (VNI)
100 Village Court - Ste. #301
Hazlet NJ 07730
US

00-30-E5
(hex) Amper Datos S.A.
0030E5 (base 16) Amper Datos S.A.

C/Marconi n*3 (PTM)
28760 Madrid
ES

00-30-94 (hex) Cisco Systems, Inc
003094 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-30-40 (hex) Cisco Systems, Inc
003040 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-B0-94 (hex) Alaris, Inc.
00B094 (base 16) Alaris, Inc.
47338 Fremont Boulevard
Fremont CA 94538
US

00-30-F0 (hex) Uniform Industrial Corp.
0030F0 (base 16) Uniform Industrial Corp.
18F, 171, Shung Teh Road
Taipei
TW

00-30-C9 (hex) LuxN, N
0030C9 (base 16) LuxN, N
570 Maude Court
Sunnyvale CA 94086
US

00-30-10 (hex) VISIONETICS INTERNATIONAL
003010 (base 16) VISIONETICS INTERNATIONAL
3F, NO. 3, PROSPERITY ROAD 1
TAIWAN R.O.C.
TW

00-30-17 (hex) BlueArc UK Ltd
003017 (base 16) BlueArc UK
Ltd
Queensgate House
Bracknell RG12 1RB
GB

00-30-F7 (hex) RAMIX INC.

0030F7 (base 16) RAMIX INC.
1672 DONLON STREET
VENTURA CA 93003
US

00-30-D0 (hex) Tellabs
0030D0 (base 16) Tellabs
1750 Founder's Parkway
Alpharetta GA 30004
US

00-30-14 (hex) DIVIO, INC.
003014 (base 16) DIVIO, INC.
997 E. ARQUES AVENUE
SUNNYVALE CA 94086
US

00-30-0C (hex) CONGRUENCY, LTD.
00300C (base 16) CONGRUENCY, LTD.
23 HASIVIM STREET
PETAH-TIKVA 49170
IL

00-30-4C (hex) APPIAN COMMUNICATIONS, INC.
00304C (base 16) APPIAN COMMUNICATIONS, INC.
80 CENTRAL STREET
BOXBOROUGH MA 01719
US

00-30-28 (hex) FASE Saldatura srl
003028 (base 16) FASE Saldatura srl
V.R. Bernardi 5
TORINO
IT

00-30-E8 (hex) ENSIM CORP.
0030E8 (base 16) ENSIM CORP.
1215 Terra Bella Ave.
Mountainview CA 94043
US

00-30-D9 (hex) DATACORE SOFTWARE CORP.
0030D9 (base
16) DATACORE SOFTWARE CORP.
CORPORATE PARK
FORT LAUDERDALE FL 33309
US

00-30-26 (hex) HeiTel Digital Video GmbH
003026 (base 16) HeiTel Digital Video GmbH
Stuthagen 25

DE

00-30-47 (hex) NISSEI ELECTRIC CO., LTD.
003047 (base 16) NISSEI ELECTRIC CO., LTD.
32 MIYAWAKE, SHIMONOISHIKI-CHO

JP

00-30-77 (hex) ONPREM NETWORKS
003077 (base 16) ONPREM NETWORKS
42501 ALBRAE STREET
FREMONT CA 94538
US

00-30-D4 (hex) AAE Systems, Inc.
0030D4 (base 16) AAE Systems, Inc.
642 North Pastoria Avenue
Sunnyvale CA 94085
US

00-D0-D7 (hex) B2C2, INC.
00D0D7 (base 16) B2C2, INC.
2020 CHALLENGER DRIVE-
ALAMEDA CA 94501
US

00-D0-73 (hex) ACN ADVANCED COMMUNICATIONS
00D073 (base 16) ACN ADVANCED COMMUNICATIONS
NETWORKS SA

CH

00-D0-57 (hex) ULTRAK, INC.
00D057 (base 16) ULTRAK, INC.
1301 WATERS RIDGE DRIVE
LEWISVILLE TX 75057
US

00-D0-E5
(hex) SOLIDUM SYSTEMS CORP.
00D0E5 (base 16) SOLIDUM SYSTEMS CORP.
940 BELFAST ROAD 1S.217

CA

00-D0-36 (hex) TECHNOLOGY ATLANTA CORP.
00D036 (base 16) TECHNOLOGY ATLANTA CORP.
141 W. WIEUCA RD. N.E.
ATLANTA GA 30342
US

00-D0-E3 (hex) ELE-CHEM ENGINEERING CO., LTD.
00D0E3 (base 16) ELE-CHEM ENGINEERING CO., LTD.
WINDSTONE OFFICE
SEOUL 137-130 SEOUL 137-130 KOREA
KR

00-D0-C4 (hex) TERATECH CORPORATION
00D0C4 (base 16) TERATECH CORPORATION
223 MIDDLESEX TRPK.
BURLINGTON MA 01803-3308
US

00-D0-45 (hex) KVASER AB
00D045 (base 16) KVASER AB
BOX 4076

SE

00-D0-04 (hex) PENTACOM LTD.
00D004 (base 16) PENTACOM LTD.
8 HASADNAOT STREET

IL

00-D0-05 (hex) ZHS ZEITMANAGEMENTSYSTEME
00D005 (base 16) ZHS ZEITMANAGEMENTSYSTEME
HARD-UND SOFTWARE GMBH

DE

00-30-1C (hex) ALTVATER AIRDATA SYSTEMS
00301C (base 16) ALTVATER
AIRDATA SYSTEMS
GMBH & CO. KG

DE

00-30-80 (hex) Cisco Systems, Inc
003080 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568

US

00-30-81 (hex) ALTOS C&C
003081 (base 16) ALTOS C&C
150-010 RM. 1012, 44-1
KOREA
KR

00-D0-D3 (hex) Cisco Systems, Inc
00D0D3 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-D0-17 (hex) SYNTECH INFORMATION CO., LTD.
00D017 (base 16) SYNTECH INFORMATION CO., LTD.
8F, 210, TA-TUNG RD., SEC. 3
TAIWAN TAIWAN ROC
TW

00-D0-61 (hex) TREMON ENTERPRISES CO., LTD.
00D061 (base 16) TREMON ENTERPRISES CO., LTD.
15F, NO. 116, SEC. 1
TAIWAN TAIWAN ROC
TW

00-D0-26 (hex) HIRSCHMANN AUSTRIA GMBH
00D026 (base 16) HIRSCHMANN AUSTRIA GMBH
OBERER PASPELSWEG 6 - 8

AT

00-30-AB (hex) DELTA NETWORKS, INC.
0030AB (base 16) DELTA NETWORKS, INC.
8, KON JAN WEST ROAD
TAIWAN
TAIWAN R.O.C.
TW

00-30-49 (hex) BRYANT TECHNOLOGY, LTD.
003049 (base 16) BRYANT TECHNOLOGY, LTD.
P.O. BOX 69557
SOUTH AFRICA
ZA

00-30-6D (hex) LUCENT TECHNOLOGIES
00306D (base 16) LUCENT TECHNOLOGIES
300 BAKER AVENUE - STE. #100

CONCORD MA 01742-2168
US

00-D0-F0 (hex) CONVISION TECHNOLOGY GMBH
00D0F0 (base 16) CONVISION TECHNOLOGY GMBH
REBENRING 33

DE

00-D0-10 (hex) CONVERGENT NETWORKS, INC.
00D010 (base 16) CONVERGENT NETWORKS, INC.
2 HIGHWOOD DRIVE
TEWKSBURY MA 01876
US

00-D0-4B (hex) LA CIE GROUP S.A.
00D04B (base 16) LA CIE GROUP S.A.
17 RUE AMPERE

FR

00-D0-0E (hex) PLURIS, INC.
00D00E (base 16) PLURIS, INC.
10455 BANDLEY DRIVE
CUPERTINO CA 95014
US

00-D0-12 (hex) GATEWORKS CORP.
00D012 (base 16) GATEWORKS CORP.
7631 MORRO ROAD
ATASCADERO CA 93422
US

00-D0-4D (hex) DIV OF RESEARCH & STATISTICS
00D04D
(base 16) DIV OF RESEARCH & STATISTICS
BOG OF THE FEDERAL RESERVE SYS
WASHINGTON DC 20551
US

00-D0-2E (hex) COMMUNICATION AUTOMATION CORP.
00D02E (base 16) COMMUNICATION AUTOMATION CORP.
1180 MCDERMOTT DRIVE
WEST CHESTER PA 19380
US

00-D0-C5 (hex) COMPUTATIONAL SYSTEMS, INC.
00D0C5 (base 16) COMPUTATIONAL SYSTEMS, INC.

835 INNOVATION DRIVE
KNOXVILLE TN 37932
US

00-D0-46 (hex) DOLBY LABORATORIES, INC.
00D046 (base 16) DOLBY LABORATORIES, INC.
100 Potrero Avenue
San Francisco CA 94103-4938
US

00-D0-DE (hex) PHILIPS MULTIMEDIA NETWORK
00D0DE (base 16) PHILIPS MULTIMEDIA NETWORK
SYSTEMS GMBH

DE

00-D0-0C (hex) SNIJDER MICRO SYSTEMS
00D00C (base 16) SNIJDER MICRO SYSTEMS
P.O. BOX 300
THE
NL

00-D0-DA (hex) TAICOM DATA SYSTEMS CO., LTD.
00D0DA (base 16) TAICOM DATA SYSTEMS CO., LTD.
45, WU-KUNG 5 ROAD
TAIWAN
TW

00-D0-1E (hex) PINGTEL
CORP.
00D01E (base 16) PINGTEL CORP.
773 WINTER STREET
N. ANDOVER MA 01845
US

00-D0-65 (hex) TOKO ELECTRIC
00D065 (base 16) TOKO ELECTRIC
4008 KUROHAMA, HASUDA-SHI

JP

00-D0-14 (hex) ROOT, INC.
00D014 (base 16) ROOT, INC.
8F TOC2 Bldg, 7-21-11 Nishi-Gotanda
Tokyo 141-0031
JP

00-D0-CA (hex) Intrinsyc Software International Inc.

00D0CA (base 16) Intrinsyc Software International Inc.
885 Dunsmuir Street, Suite 380
Vancouver B.C. V6C 1N5
CA

00-D0-23 (hex) INFORTREND TECHNOLOGY, INC.
00D023 (base 16) INFORTREND TECHNOLOGY, INC.
10F, NO. 33 SAN-MIN RD.
TAIWAN
TW

00-D0-3C (hex) Vieo, Inc.
00D03C (base 16) Vieo, Inc.
12416 Hymeadow Drive,
Austin TX 78750
US

00-D0-B4 (hex) KATSUJIMA CO., LTD.
00D0B4 (base 16) KATSUJIMA CO., LTD.
1-6-1, SHIRATORI

JP

00-D0-86 (hex) FOVEON, INC.
00D086 (base 16) FOVEON, INC.
2820 San
Tomas Expressway
Santa Clara CA 95051
US

00-D0-E8 (hex) MAC SYSTEM CO., LTD.
00D0E8 (base 16) MAC SYSTEM CO., LTD.
R&D INSTITUTE
KYUNGKI-DO KOREA, 430-017
KR

00-D0-6B (hex) SR TELECOM INC.
00D06B (base 16) SR TELECOM INC.
8150 Trans Canada Highway
Quebec H4S 1M5
CA

00-D0-A8 (hex) NETWORK ENGINES, INC.
00D0A8 (base 16) NETWORK ENGINES, INC.
61 PLEASANT STREET
RANDOLPH MA 02368
US

00-D0-AB (hex) DELTAKABEL TELECOM CV
00D0AB (base 16) DELTAKABEL TELECOM CV
HANZEWEG 14
THE
NL

00-D0-1D (hex) FURUNO ELECTRIC CO., LTD.
00D01D (base 16) FURUNO ELECTRIC CO., LTD.
NO. 9-52, ASHIHARA-CHO
662-8580
JP

00-D0-A2 (hex) INTEGRATED DEVICE
00D0A2 (base 16) INTEGRATED DEVICE
TECHNOLOGY, INC.
SANTA CLARA CA 95054
US

00-D0-9A (hex) FILANET CORPORATION
00D09A (base 16) FILANET CORPORATION
931 Benecia Avenue
Sunnyvale CA 94085
US

00-D0-AE
(hex) ORESIS COMMUNICATIONS, INC.
00D0AE (base 16) ORESIS COMMUNICATIONS, INC.
14670 NW GREENBRIER PKWY
BEAVERTON OR 97006
US

00-D0-F2 (hex) MONTEREY NETWORKS
00D0F2 (base 16) MONTEREY NETWORKS
1909 N. GLENVILLE DRIVE
RICHARDSON TX 75081
US

00-50-A7 (hex) Cisco Systems, Inc
0050A7 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-D0-6C (hex) SHAREWAVE, INC.
00D06C (base 16) SHAREWAVE, INC.
5175 HILLSDALE CIRCLE
EL DORADO HILLS CA 95762
US

00-D0-EE (hex) DICTAPHONE CORPORATION
00D0EE (base 16) DICTAPHONE CORPORATION
3191 BROADBRIDGE AVE.
STRATFORD CT 06614-2559
US

00-D0-DC (hex) MODULAR MINING SYSTEMS, INC.
00D0DC (base 16) MODULAR MINING SYSTEMS, INC.
3289 E. HEMISPHERE LOOP
TUCSON AZ 85706
US

00-D0-A7 (hex) TOKYO SOKKI KENKYUJO CO., LTD.
00D0A7 (base 16) TOKYO SOKKI KENKYUJO CO., LTD.
8-2, MINAMI-OHI 6-CHOME

JAPAN 140-8560
JP

00-D0-34 (hex) ORMEC SYSTEMS CORP.
00D034 (base 16) ORMEC SYSTEMS CORP.
19 LINDEN PARK
ROCHESTER NY 14625
US

00-D0-8A (hex) PHOTRON USA
00D08A (base 16) PHOTRON USA
1101 S. WINCHESTER BLVD.
SAN JOSE CA 95128
US

00-50-36 (hex) NETCAM, LTD.
005036 (base 16) NETCAM, LTD.
6071 N. PASEO ZALDIVAR
TUCSON AZ 85750
US

00-50-83 (hex) GILBARCO, INC.
005083 (base 16) GILBARCO, INC.
POB 22087
GREENSBORO NC 27420
US

00-50-DC (hex) TAS TELEFONBAU A. SCHWABE GMBH & CO. KG
0050DC (base 16) TAS TELEFONBAU A. SCHWABE GMBH & CO. KG

D-41238 MONCHENGLADBACH

DE

00-50-08 (hex) TIVA MICROCOMPUTER CORP. (TMC)
005008 (base 16) TIVA MICROCOMPUTER CORP. (TMC)
48550 FREMONT BLVD.
FREMONT CA 94538
US

00-50-CC (hex) Seagate Cloud Systems Inc
0050CC (base 16) Seagate Cloud Systems Inc
1351 S Sunset Street
Longmont CO 80501
US

00-50-16
(hex) Molex Canada Ltd
005016 (base 16) Molex Canada Ltd
216 Bathurst Drive
Waterloo Ontario N2V 2L7
CA

00-50-4C (hex) Galil Motion Control
00504C (base 16) Galil Motion Control
270 Technology Way
Rocklin CA 95765
US

00-50-76 (hex) IBM Corp
005076 (base 16) IBM Corp
3039 E Cornwallis Road
Research Triangle Park NC 27709-2195
US

00-50-D4 (hex) JOOHONG INFORMATION &
0050D4 (base 16) JOOHONG INFORMATION &
COMMUNICATIONS, LTD.
SEOUL SEOUL KOREA
KR

00-50-A6 (hex) OPTRONICS
0050A6 (base 16) OPTRONICS
175 CREMONA DRIVE
GOLETA CA 93117
US

00-50-DB (hex) CONTEMPORARY CONTROL
0050DB (base 16) CONTEMPORARY CONTROL
SYSTEMS, INC.

DOWNERS GROVE IL 60515
US

00-50-7C (hex) VIDEOCON AG
00507C (base 16) VIDEOCON AG
ALBERT-SCHWEITZER-STR. 64

DE

00-50-47 (hex) Private
005047 (base 16) Private

00-50-84 (hex) Quantum Corp.
005084
(base 16) Quantum Corp.
8560 Upland Dr.
Englewood CO 80112
US

00-50-A9 (hex) MOLDAT WIRELESS TECHNOLGIES
0050A9 (base 16) MOLDAT WIRELESS TECHNOLGIES
3 SHIMON ISRAELI STREET

IL

00-50-9B (hex) SWITCHCORE AB
00509B (base 16) SWITCHCORE AB
POSITIONEN 153

SE

00-50-7E (hex) NEWER TECHNOLOGY
00507E (base 16) NEWER TECHNOLOGY
4848 WEST IRVING ST.
WICHITA KS 67209-2621
US

00-50-55 (hex) DOMS A/S
005055 (base 16) DOMS A/S
FORMERVANGEN 28

DK

00-50-72 (hex) CORVIS CORPORATION
005072 (base 16) CORVIS CORPORATION
8320 GUILFORD ROAD
COLUMBIA MD 21046
US

00-50-CE (hex) LG INTERNATIONAL CORP.
0050CE (base 16) LG INTERNATIONAL CORP.
LG TWIN TOWERS
SEOUL, 150-606
KR

00-50-F7 (hex) VENTURE MANUFACTURING (SINGAPORE) LTD.
0050F7 (base 16) VENTURE MANUFACTURING (SINGAPORE) LTD.

#05-01 Techplace II 569873
SG

00-50-19
(hex) SPRING TIDE NETWORKS, INC.
005019 (base 16) SPRING TIDE NETWORKS, INC.
85 SWANSON ROAD
BOXBOROUGH MA 01719
US

00-50-1F (hex) MRG SYSTEMS, LTD.
00501F (base 16) MRG SYSTEMS, LTD.
WILLOW HOUSE, SLAD ROAD
GLOS. GL5 1QG England
GB

00-50-43 (hex) MARVELL SEMICONDUCTOR, INC.
005043 (base 16) MARVELL SEMICONDUCTOR, INC.
645 ALMANOR AVENUE
SUNNYVALE CA 94086
US

00-50-FA (hex) OXTEL, LTD.
0050FA (base 16) OXTEL, LTD.
THE MARKET PLACE
0X11 7LE England
GB

00-50-1B (hex) ABL CANADA, INC.
00501B (base 16) ABL CANADA, INC.
8550 COTE DE LIESSE
ST-LAURENT (QUEBEC) H4T 1H2
CA

00-50-FD (hex) VISIONCOMM CO., LTD.
0050FD (base 16) VISIONCOMM CO., LTD.
4, 5F, DAEWON B/D
YONGSAN-GU, SEOUL

KR

00-50-BF (hex) Metalligence Technology Corp.
0050BF (base 16) Metalligence Technology Corp.
NO.9, PARK AVENUE II
HSIN-CHU
TW

00-50-B8 (hex) INOVA
COMPUTERS GMBH & CO. KG
0050B8 (base 16) INOVA COMPUTERS GMBH & CO. KG
SUDETENSTRASSE 5
87600 KAUFBEUREN
DE

00-50-5B (hex) KAWASAKI LSI U.S.A., INC.
00505B (base 16) KAWASAKI LSI U.S.A., INC.
2570 NORTHFIRST STREET
SAN JOSE CA 95131
US

00-90-38 (hex) FOUNTAIN TECHNOLOGIES, INC.
009038 (base 16) FOUNTAIN TECHNOLOGIES, INC.
50 RANDOLPH ROAD
SOMERSET NJ 08873
US

00-90-B0 (hex) VADEM
0090B0 (base 16) VADEM
1960 ZANKER RD
SAN JOSE CA 95112
US

00-90-EF (hex) INTEGRIX, INC.
0090EF (base 16) INTEGRIX, INC.
2001 CORPORATE CENTER DRIVE
NEWBURY PARK CA 91320
US

00-90-C5 (hex) INTERNET MAGIC, INC.
0090C5 (base 16) INTERNET MAGIC, INC.
6450 LUSK BLVD.-STE. #E-201
SAN DIEGO CA 92121
US

00-90-8C (hex) ETREND ELECTRONICS, INC.
00908C (base 16) ETREND ELECTRONICS, INC.
2F, 22 INDUSTRY E. 9TH ROAD

TW

00-90-48 (hex) ZEAL CORPORATION
009048
(base 16) ZEAL CORPORATION
301, HIRAIKE
NAGAKUTE-CHO, AICHI-PREF. 480-1155
JP

00-90-07 (hex) DOMEX TECHNOLOGY CORP.
009007 (base 16) DOMEX TECHNOLOGY CORP.
NO. 2, TECHNOLOGY RD. 1
HSINCHU
TW

00-50-52 (hex) TIARA NETWORKS, INC.
005052 (base 16) TIARA NETWORKS, INC.
113 FOORIER AVENUE
FREMONT CA 94539
US

00-50-64 (hex) CAE ELECTRONICS
005064 (base 16) CAE ELECTRONICS
P.O. BOX 1800
ST. LAURENT, QUEBEC H4L 4X4
CA

00-50-27 (hex) GENICOM CORPORATION
005027 (base 16) GENICOM CORPORATION
900 CLOPPER ROAD - STE. #110
GAITHERSBURG MD 20878
US

00-50-5A (hex) NETWORK ALCHEMY, INC.
00505A (base 16) NETWORK ALCHEMY, INC.
1521.5 PACIFIC AVENUE
SANTA CRUZ CA 95060
US

00-50-39 (hex) MARINER NETWORKS
005039 (base 16) MARINER NETWORKS
1585 S. MANCHESTER AVE.
ANAHEIM CA 92802-2907
US

00-50-95 (hex) PERACOM NETWORKS
005095 (base

16) PERACOM NETWORKS
13000 WESTON PARKWAY
CARY NC 27513
US

00-90-3D (hex) BIOPAC SYSTEMS, INC.
00903D (base 16) BIOPAC SYSTEMS, INC.
42 AERO CAMINO
SANTA BARBARA CA 93117
US

00-90-57 (hex) AANetcom, Inc.
009057 (base 16) AANetcom, Inc.
4949 LIBERTY LANE - STE. #200
ALLENTOWN PA 18106-9015
US

00-90-83 (hex) TURBO COMMUNICATION, INC.
009083 (base 16) TURBO COMMUNICATION, INC.
4F-2, NO. 171, SUNG-TEH ROAD
TAIPEI
TW

00-90-00 (hex) DIAMOND MULTIMEDIA
009000 (base 16) DIAMOND MULTIMEDIA
312 SE STONEMILL DRIVE
VANCOUVER WA 98684
US

00-90-54 (hex) INNOVATIVE SEMICONDUCTORS, INC
009054 (base 16) INNOVATIVE SEMICONDUCTORS, INC
2570 W. EL CAMINO REAL
MOUNTAIN VIEW CA 94040
US

00-90-6E (hex) PRAXON, INC.
00906E (base 16) PRAXON, INC.
1700 DELL AVENUE
CAMPBELL CA 95008
US

00-90-C0 (hex) K.J. LAW ENGINEERS, INC.
0090C0 (base 16) K.J. LAW
ENGINEERS, INC.
42300 W. NINE MILE ROAD
NOVI MI 48375
US

00-90-C4 (hex) JAVELIN SYSTEMS, INC.
0090C4 (base 16) JAVELIN SYSTEMS, INC.
1881 LANGLEY AVE.
IRVINE CA 92614
US

00-90-B9 (hex) BERAN INSTRUMENTS LTD.
0090B9 (base 16) BERAN INSTRUMENTS LTD.
HATCHMOOR INDUSTRIAL ESTATE
N DEVON EX38 7HP
GB

00-90-A5 (hex) SPECTRA LOGIC
0090A5 (base 16) SPECTRA LOGIC
1700 N. 55TH STREET
BOULDER CO 80301
US

00-90-A3 (hex) Corecess Inc.
0090A3 (base 16) Corecess Inc.
135-726, Keopyung B-Town 1F, 203, Nonhyu
Seoul
KR

00-90-29 (hex) CRYPTO AG
009029 (base 16) CRYPTO AG
P.O. BOX
CH-6301 Zug
CH

00-90-2D (hex) DATA ELECTRONICS (AUST.) PTY, LTD.
00902D (base 16) DATA ELECTRONICS (AUST.) PTY, LTD.
7 SEISMIC COURT
VICTORIA 3178
AU

00-90-D4 (hex) BindView Development Corp.
0090D4 (base 16) BindView Development Corp.
3355 WEST ALABAMA #1200
HOUSTON
TX 77098
US

00-90-D7 (hex) NetBoost Corp.
0090D7 (base 16) NetBoost Corp.
390 CAMBRIDGE AVENUE
PALO ALTO CA 94306-1506
US

00-90-1F (hex) ADTEC PRODUCTIONS, INC.
00901F (base 16) ADTEC PRODUCTIONS, INC.
408 RUSSELL STREET
NASHVILLE TN 37206
US

00-90-82 (hex) FORCE INSTITUTE
009082 (base 16) FORCE INSTITUTE
PARK ALLE 345
DK-2605 BROENDBY
DK

00-90-41 (hex) APPLIED DIGITAL ACCESS
009041 (base 16) APPLIED DIGITAL ACCESS
9855 SCRANTON ROAD
SAN DIEGO CA 92121
US

00-90-24 (hex) PIPELINKS, INC.
009024 (base 16) PIPELINKS, INC.
2710 WALSH AVE., STE #300
SANTA CLARA CA 95051
US

00-90-3A (hex) NIHON MEDIA TOOL INC.
00903A (base 16) NIHON MEDIA TOOL INC.
1875 OYAMA-CHO
MIE 512-1102
JP

00-90-B2 (hex) AVICI SYSTEMS INC.
0090B2 (base 16) AVICI SYSTEMS INC.
12 ELIZABETH DRIVE
CHELMSFORD MA 01824
US

00-90-B6 (hex) FIBEX
SYSTEMS
0090B6 (base 16) FIBEX SYSTEMS
5350 OLD REDWOOD HIGHWAY
PETALUMA CA 94954
US

00-90-63 (hex) COHERENT COMMUNICATIONS SYSTEMS CORPORATION
009063 (base 16) COHERENT COMMUNICATIONS SYSTEMS CORPORATION
45085 UNIVERSITY DRIVE
ASHBURN VA 20147

US

00-90-11 (hex) WAVTrace, Inc.
009011 (base 16) WAVTrace, Inc.
1555 132ND AVE. NE
BELLEVUE WA 98005
US

00-90-65 (hex) FINISAR CORPORATION
009065 (base 16) FINISAR CORPORATION
1389 Moffett Park Dr
Sunnyvale CA 94089
US

00-10-D3 (hex) GRIPS ELECTRONIC GMBH
0010D3 (base 16) GRIPS ELECTRONIC GMBH
NIESENBERGERGASSE 37
A-8020 GRAZ
AT

00-10-FB (hex) ZIDA TECHNOLOGIES LIMITED
0010FB (base 16) ZIDA TECHNOLOGIES LIMITED
8/F BLOCK A GOODVIEW INDUSTRIAL BUILDIN
TUEN MUN NT
HK

00-90-62 (hex) ICP VORTEX COMPUTERSYSTEME GmbH
009062 (base 16) ICP VORTEX COMPUTERSYSTEME GmbH
FALTERSTRASSE 51-53
D 74223 FLEIN

DE

00-90-C3 (hex) TOPIC SEMICONDUCTOR CORP.
0090C3 (base 16) TOPIC SEMICONDUCTOR CORP.
11F-1, NO. 2, WU-LIN RD.
HSIN-CHU
TW

00-90-5A (hex) DEARBORN GROUP, INC.
00905A (base 16) DEARBORN GROUP, INC.
33604 West 8 Mile Rd
Farmington Hills MI 48335
US

00-90-EC (hex) PYRESCOM
0090EC (base 16) PYRESCOM
3 ALLEE DU MOULIN

66680 CANOHES
FR

00-10-53 (hex) COMPUTER TECHNOLOGY CORP.
001053 (base 16) COMPUTER TECHNOLOGY CORP.
50 W. TECHNECENTER DRIVE
MILFORD OH 45150
US

00-10-ED (hex) SUNDANCE TECHNOLOGY, INC.
0010ED (base 16) SUNDANCE TECHNOLOGY, INC.
20111 STEVENS CREEK BLVD.
CUPERTINO CA 95014
US

00-10-9D (hex) CLARINET SYSTEMS, INC.
00109D (base 16) CLARINET SYSTEMS, INC.
1415 KOLL CIRCLE #101
SAN JOSE CA 95112
US

00-10-0E (hex) MICRO LINEAR COPORATION
00100E (base 16) MICRO LINEAR COPORATION
2092 CONCOURSE DRIVE
SAN JOSE CA
95131
US

00-90-0B (hex) LANNER ELECTRONICS, INC.
00900B (base 16) LANNER ELECTRONICS, INC.
8F-4, NO. 77, SEC. 1
TAIPEI HSIEN
TW

00-90-61 (hex) PACIFIC RESEARCH & ENGINEERING CORPORATION
009061 (base 16) PACIFIC RESEARCH & ENGINEERING CORPORATION
2070 LAS PALMAS DRIVE
CARLSBAD CA 92009
US

00-90-CE (hex) avateramedical Mechatronics GmbH
0090CE (base 16) avateramedical Mechatronics GmbH
Gewerbepark „Am Wald“ 4
ILMENAU D-98693
DE

00-10-6C (hex) EDNT GmbH
00106C (base 16) EDNT GmbH

Werner-von-Siemens-Str. 7
64625 Bensheim
DE

00-10-E9 (hex) RAIDTEC LTD.
0010E9 (base 16) RAIDTEC LTD.
CASTLE ROAD
Little Island County Cork
IE

00-10-03 (hex) IMATRON, INC.
001003 (base 16) IMATRON, INC.
389 OYSTER POINT BLVD.
SO. SAN FRANCISCO CA 94080
US

00-10-71 (hex) ADVANET INC.
001071 (base 16) ADVANET INC.
3-20-8 NODA
OKAYAMI 700
JP

00-90-A8
(hex) NineTiles Networks, Ltd.
0090A8 (base 16) NineTiles Networks, Ltd.
9 Station Road
Waterbeach Cambridge CB5 9HT
GB

00-90-15 (hex) CENTIGRAM COMMUNICATIONS CORP.
009015 (base 16) CENTIGRAM COMMUNICATIONS CORP.
91 EAST TASMAN DRIVE
SAN JOSE CA 95134
US

00-90-95 (hex) UNIVERSAL AVIONICS
009095 (base 16) UNIVERSAL AVIONICS
11351 WILLOWS ROAD NE
REDMOND WA 98052-2552
US

00-90-DF (hex) MITSUBISHI CHEMICAL AMERICA, INC.
0090DF (base 16) MITSUBISHI CHEMICAL AMERICA, INC.
445 INDIO WAY
SUNNYVALE CA 94086
US

00-90-F6 (hex) ESCALATE NETWORKS, INC.

0090F6 (base 16) ESCALATE NETWORKS, INC.
6 HUGHES
IRVINE CA 92617
US

00-10-2A (hex) ZF MICROSYSTEMS, INC.
00102A (base 16) ZF MICROSYSTEMS, INC.
1052 ELWELL COURT
PALO ALTO CA 94303-4307
US

00-10-E5 (hex) SOLECTRON TEXAS
0010E5 (base 16) SOLECTRON TEXAS
12455 RESEARCH BLVD. M/S 2205
AUSTIN
TX 78759
US

00-10-3F (hex) TOLLGRADE COMMUNICATIONS, INC.
00103F (base 16) TOLLGRADE COMMUNICATIONS, INC.
493 NIXON ROAD
CHESWICK PA 15024
US

00-10-CD (hex) INTERFACE CONCEPT
0010CD (base 16) INTERFACE CONCEPT
3 VENELLE de KERGOS
29000 QUIMPER
FR

00-10-56 (hex) SODICK CO., LTD.
001056 (base 16) SODICK CO., LTD.
3-12-1 NAKAMACHIDAI
TSUZUKI-KU, YOKOHAMA KANAGAWA 224
JP

00-10-61 (hex) HOSTLINK CORP.
001061 (base 16) HOSTLINK CORP.
10F-1, NO. 181
HSI-CHIH, TAIPEI
TW

00-10-99 (hex) InnoMedia, Inc.
001099 (base 16) InnoMedia, Inc.
4800 GREAT AMERICA PARKWAY
SANTA CLARA CA 95054
US

00-10-C8 (hex) COMMUNICATIONS ELECTRONICS SECURITY GROUP
0010C8 (base 16) COMMUNICATIONS ELECTRONICS SECURITY GROUP
10/4W22 FIDDLERS GREEN LANE
Benhall, Cheltenham Glouster GL52 5AJ
GB

00-10-86 (hex) ATTO Technology, Inc.
001086 (base 16) ATTO Technology,
Inc.
155 Crosspoint Pkwy.
Amherst NY 14068
US

00-10-F3 (hex) Nexcom International Co., Ltd.
0010F3 (base 16) Nexcom International Co., Ltd.
18F, No. 716, Chung-Cheng Road,
Taipei Hsien 235,
TW

00-10-DF (hex) RISE COMPUTER INC.
0010DF (base 16) RISE COMPUTER INC.
9F, NO. 306-3, TATUNG RD.
TAIPEI HSIEN
TW

00-10-72 (hex) GVN TECHNOLOGIES, INC.
001072 (base 16) GVN TECHNOLOGIES, INC.
8200 BRYAN DAIRY ROAD
LARGO FL 33777
US

00-10-DA (hex) Kollmorgen Corp
0010DA (base 16) Kollmorgen Corp
33 S.LA PATERA LN
SANTA BARBARA CA 93117
US

00-10-E4 (hex) NSI CORPORATION
0010E4 (base 16) NSI CORPORATION
P.O. BOX 635
WILSONVILLE OR 97070
US

00-10-88 (hex) AMERICAN NETWORKS INC.
001088 (base 16) AMERICAN NETWORKS INC.
6800 ORANGETHORPE AVE. #A
BUENA PARK CA 90620
US

00-10-22 (hex) SatCom Media Corporation
001022 (base 16) SatCom Media Corporation
3255-7
SCOTT BLVD.
SANTA CLARA CA 95054
US

00-10-A0 (hex) INNOVEX TECHNOLOGIES, INC.
0010A0 (base 16) INNOVEX TECHNOLOGIES, INC.
KEYSTONE COMMONS
TURTLE CREEK PA 15145
US

00-10-16 (hex) T.SQWARE
001016 (base 16) T.SQWARE
6, PARC ARIANE
78284 GUYANCOURT CEDEX
FR

00-10-90 (hex) CIMETRICS, INC.
001090 (base 16) CIMETRICS, INC.
55 TEMPLE PLACE
BOSTON MA 02111
US

00-10-F5 (hex) AMHERST SYSTEMS, INC.
0010F5 (base 16) AMHERST SYSTEMS, INC.
30 WILSON ROAD
BUFFALO NY 14221
US

00-10-3D (hex) PHASECOM, LTD.
00103D (base 16) PHASECOM, LTD.
P.O. BOX 45017
JERUSALEM 91450
IL

00-10-EA (hex) ADEPT TECHNOLOGY
0010EA (base 16) ADEPT TECHNOLOGY
150 ROSE ORCHARD WAY
SAN JOSE CA 95134
US

00-10-AE (hex) SHINKO ELECTRIC INDUSTRIES CO.
0010AE (base 16) SHINKO ELECTRIC INDUSTRIES CO.
80 OSHIMADA-MACHI
NAGANO-SHI 381-22

JP

00-10-96
(hex) TRACEWELL SYSTEMS, INC.
001096 (base 16) TRACEWELL SYSTEMS, INC.
567 ENTERPRISE DRIVE
WESTERVILLE OH 43081
US

00-10-82 (hex) JNA TELECOMMUNICATIONS LIMITED
001082 (base 16) JNA TELECOMMUNICATIONS LIMITED
16 SMITH ST, CHATSWOOD
NSW 2067
AU

00-10-98 (hex) STARNET TECHNOLOGIES, INC.
001098 (base 16) STARNET TECHNOLOGIES, INC.
2210 O'TOOLE AVE.
SAN JOSE CA 95131
US

00-10-68 (hex) COMOS TELECOM
001068 (base 16) COMOS TELECOM
SAEHAN B/D/, 27-1 SUPYO-DONG
CHUNG-GU, SEOUL (100-230)
KR

00-10-42 (hex) Alacritech, Inc.
001042 (base 16) Alacritech, Inc.
1995 N. First Street
San Jose CA 95112
US

00-10-49 (hex) ShoreTel, Inc
001049 (base 16) ShoreTel, Inc
960 Stewart Drive
Sunnyvale CA 94085
US

00-10-5E (hex) Spirent plc, Service Assurance Broadband
00105E (base 16) Spirent plc, Service Assurance Broadband
5280 Corporate Dr
Ballenger
Creek MD 21703
US

00-10-AF (hex) TAC SYSTEMS, INC.
0010AF (base 16) TAC SYSTEMS, INC.

1035 PUTMAN DRIVE--STE.
HUNTSVILLE AL 35816-2271
US

00-10-8C (hex) Fujitsu Services Ltd
00108C (base 16) Fujitsu Services Ltd
SOLIHULL PARKWAY
BIRMINGHAM B37 7YU England 0000
GB

00-10-E1 (hex) S.I. TECH, INC.
0010E1 (base 16) S.I. TECH, INC.
P.O. BOX 609
GENEVA IL 60134
US

00-10-BB (hex) DATA & INFORMATION TECHNOLOGY
0010BB (base 16) DATA & INFORMATION TECHNOLOGY
TECHNOLOGY HOUSE
BOTTESFORD, NOTTINGHAM NG13 OEL
GB

00-10-20 (hex) Hand Held Products Inc
001020 (base 16) Hand Held Products Inc
700 Visions Drive
Skaneateles Falls NY 13153-0208
US

00-10-7E (hex) BACHMANN ELECTRONIC GmbH
00107E (base 16) BACHMANN ELECTRONIC GmbH
KREUZAECKERWEG 33
A 6806 FELDKIRCH
AT

00-10-3A (hex) DIAMOND NETWORK TECH
00103A (base 16) DIAMOND NETWORK TECH
P.O. BOX
84525
GREENSIDE 2034
ZA

00-10-04 (hex) THE BRANTLEY COILE COMPANY,INC
001004 (base 16) THE BRANTLEY COILE COMPANY,INC
545 RESEARCH DRIVE
ATHENS GA 30605
US

00-10-EF (hex) DBTEL INCORPORATED

0010EF (base 16) DBTEL INCORPORATED
NO.29 TZU-CHIANG ST.,
TU-CHENG TAIPEI
TW

00-10-76 (hex) EUREM GmbH
001076 (base 16) EUREM GmbH
JULICHER STR. 338B
D-52070 AACHEN
DE

00-10-C4 (hex) MEDIA GLOBAL LINKS CO., LTD.
0010C4 (base 16) MEDIA GLOBAL LINKS CO., LTD.
580-16, horikawa-cho,saiwai-ku
Kawasaki, Kanagawa 212-0013
JP

00-10-FE (hex) DIGITAL EQUIPMENT CORPORATION
0010FE (base 16) DIGITAL EQUIPMENT CORPORATION
301 ROCKRIMMON BLVD, SOUTH
COLORADO SPRINGS CO 80919
US

00-10-BC (hex) Aastra Telecom
0010BC (base 16) Aastra Telecom
8 Federal Street
Billerica MA 01821-3570
US

00-10-58 (hex) ArrowPoint Communications
001058 (base 16) ArrowPoint
Communications
235 LITTLETON ROAD
WESTFORD MA 01886
US

00-10-0F (hex) INDUSTRIAL CPU SYSTEMS
00100F (base 16) INDUSTRIAL CPU SYSTEMS
111-D W. DYER ROAD
SANTA ANA CA 92707
US

00-10-F7 (hex) IRIICHI TECHNOLOGIES Inc.
0010F7 (base 16) IRIICHI TECHNOLOGIES Inc.
1-26-7 CHUO, NAKANA-KU
TOKYO 164
JP

00-10-AB (hex) KOITO ELECTRIC INDUSTRIES, LTD.
0010AB (base 16) KOITO ELECTRIC INDUSTRIES, LTD.
100 MAEDA-CHO, TOTSUKA-KU
YOKOHAMA 244 KANAGAWA 244-8569
JP

00-10-10 (hex) INITIO CORPORATION
001010 (base 16) INITIO CORPORATION
2188 B DEL FRANCO STREET
SAN JOSE CA 95118
US

00-10-F2 (hex) ANTEC
0010F2 (base 16) ANTEC
4920 AVALON RIDGE PKWY
NORCROSS GA 30071
US

00-E0-07 (hex) Avaya ECS Ltd
00E007 (base 16) Avaya ECS Ltd
Unit 1 Sterling Court, Mundells
Welwyn Garden City Hert AL7 1LZ
GB

00-10-BE (hex) MARCH NETWORKS CORPORATION
0010BE (base 16) MARCH
NETWORKS CORPORATION
303 Terry Fox Drive
OTTAWA, ONTARIO K2K 3J1
CA

00-E0-D3 (hex) DATENTECHNIK GmbH
00E0D3 (base 16) DATENTECHNIK GmbH
THERESIANUMGASSE 11
A-1040 WIEN
AT

00-E0-43 (hex) VitalCom
00E043 (base 16) VitalCom
15222 DEL AMO AVE.
TUSTIN CA 92780
US

00-E0-B3 (hex) EtherWAN Systems, Inc.
00E0B3 (base 16) EtherWAN Systems, Inc.
14 HUGHES, STE.B-105
IRVINE CA 92618
US

00-E0-ED (hex) SILICOM, LTD.
00E0ED (base 16) SILICOM, LTD.
8 HANAGER ST.
KFAR-SAVA 44000
IL

00-E0-BF (hex) TORRENT NETWORKING TECHNOLOGIES CORP.
00E0BF (base 16) TORRENT NETWORKING TECHNOLOGIES CORP.
8181 PROFESSIONAL PLACE
LANDOVER MD 20785
US

00-E0-E3 (hex) SK-ELEKTRONIK GMBH
00E0E3 (base 16) SK-ELEKTRONIK GMBH
HEMMELRATHERWEG 201
51377 LEVERKUSEN
DE

00-E0-C6 (hex) LINK2IT, L.L.C.
00E0C6 (base 16) LINK2IT, L.L.C.
4256 BECK AVENUE
STUDIO
CITY CA 91604
US

00-E0-E5 (hex) CINCO NETWORKS, INC.
00E0E5 (base 16) CINCO NETWORKS, INC.
6601 KOLL CENTER PARK WAY
PLEASANTON CA 94566
US

00-E0-45 (hex) TOUCHWAVE, INC.
00E045 (base 16) TOUCHWAVE, INC.
Maglebjergvej 5B
DK-2800 Lyngby
DK

00-E0-40 (hex) DeskStation Technology, Inc.
00E040 (base 16) DeskStation Technology, Inc.
15729 COLLEGE BLVD.
LENEXA KS 66219
US

00-E0-1A (hex) COMTEC SYSTEMS. CO., LTD.
00E01A (base 16) COMTEC SYSTEMS. CO., LTD.
404-9 CHOUNGCHEN-DONG
BUPYOUNG-KU, INCHON

KR

00-E0-81 (hex) TYAN COMPUTER CORP.
00E081 (base 16) TYAN COMPUTER CORP.
3288 LAUREVIEW CT
Fremont CA 95035
US

00-E0-57 (hex) HAN MICROTELECOM. CO., LTD.
00E057 (base 16) HAN MICROTELECOM. CO., LTD.
FASHION BD., 3RD FR,
DONG SEO-GU, TAEJON KOREA 302-173
KR

00-E0-61 (hex) EdgePoint Networks, Inc.
00E061 (base 16) EdgePoint Networks, Inc.
2238
MARTIN AVENUE
SANTA CLARA CA 95050
US

00-E0-B8 (hex) GATEWAY 2000
00E0B8 (base 16) GATEWAY 2000
610 GATEWAY DRIVE
N. SIOUX CITY SD 57049
US

00-E0-7C (hex) METTLER-TOLEDO, INC.
00E07C (base 16) METTLER-TOLEDO, INC.
1150 DEARBORN DRIVE
WORTHINGTON OH 43085
US

00-E0-26 (hex) Redlake MASD LLC
00E026 (base 16) Redlake MASD LLC
3440 E. Pritannia Dr.
Tuscon AZ 85706
US

00-E0-20 (hex) TECNOMEN OY
00E020 (base 16) TECNOMEN OY
P.O. BOX 93
FIN-02271 ESPOO
FI

00-E0-0D (hex) RADIANT SYSTEMS
00E00D (base 16) RADIANT SYSTEMS
1000 ALDERMAN DR.

ALPHARETTA GA 30202
US

00-E0-DC (hex) NEXWARE CORP.
00E0DC (base 16) NEXWARE CORP.
825 STEWART DR., STE #4
SUNNYVALE CA 94086
US

00-E0-37 (hex) CENTURY CORPORATION
00E037 (base 16) CENTURY CORPORATION
2-28-5, Taito
TAITO-KU, TOKYO 101
JP

00-E0-C2 (hex) NECSY S.p.A.
00E0C2 (base
16) NECSY S.p.A.
VIA LISBONA 28
35020 PADOVA
IT

00-E0-9B (hex) ENGAGE NETWORKS, INC.
00E09B (base 16) ENGAGE NETWORKS, INC.
316 N. MILWAUKEE ST., STE.#214
MILWAUKEE WI 53202
US

00-E0-FB (hex) LEIGHTRONIX, INC.
00E0FB (base 16) LEIGHTRONIX, INC.
2330 JARCO DR.
HOLT MI 48842
US

00-E0-53 (hex) CELLPORT LABS, INC.
00E053 (base 16) CELLPORT LABS, INC.
885 ARAPAHOE AVE.,
BOULDER CO 80302
US

00-E0-BC (hex) SYMON COMMUNICATIONS, INC.
00E0BC (base 16) SYMON COMMUNICATIONS, INC.
10701 CORPORATE DR.-STE. #290
STAFFORD TX 77477
US

00-E0-7E (hex) WALT DISNEY IMAGINEERING
00E07E (base 16) WALT DISNEY IMAGINEERING

1401 FLOWER ST.
GLENDALE CA 91221
US

00-E0-B2 (hex) TELMAX COMMUNICATIONS CORP.
00E0B2 (base 16) TELMAX COMMUNICATIONS CORP.
46515 LANDING PARKWAY
FREMONT CA 94538
US

00-E0-EC (hex) CELESTICA INC.
00E0EC (base 16) CELESTICA
INC.
1900-5140 Yonge Street PO Box 42
Toronto Ontario M2N 6L7
CA

00-E0-6C (hex) Ultra Electronics Command & Control Systems
00E06C (base 16) Ultra Electronics Command & Control Systems
Knaves Beech Business Centre
Hemel Hemstead Herts England HP2 7BW
GB

00-60-1D (hex) LUCENT TECHNOLOGIES
00601D (base 16) LUCENT TECHNOLOGIES
101 CRAWFORDS CORNER RD.
HOLMDEL NJ 07733
US

00-60-7B (hex) FORE SYSTEMS, INC.
00607B (base 16) FORE SYSTEMS, INC.
1000 FORE DRIVE
WARRENDALE PA 15086
US

00-E0-87 (hex) LeCroy - Networking Productions Division
00E087 (base 16) LeCroy - Networking Productions Division
25 BURLINGTON MALL ROAD
BURLINGTON MA 01803
US

00-E0-41 (hex) CSPI
00E041 (base 16) CSPI
43 Manning Rd.
Billerica MA 01821
US

00-E0-E2 (hex) INNOVA CORP.

00E0E2 (base 16) INNOVA CORP.
3325 SOUTH 116TH STREET
SEATTLE WA 98168
US

00-E0-82 (hex) ANERMA
00E082
(base 16) ANERMA
SCHAAPSDRIES 25
2260 WESTERLO
BE

00-60-C9 (hex) ControlNet, Inc.
0060C9 (base 16) ControlNet, Inc.
747 CAMDEN, STE. A
CAMPBELL CA 95008
US

00-60-5F (hex) NIPPON UNISOFT CORPORATION
00605F (base 16) NIPPON UNISOFT CORPORATION
BR NINGYOCHO 1,2-13-9
TOKYO 103
JP

00-60-91 (hex) FIRST PACIFIC NETWORKS, INC.
006091 (base 16) FIRST PACIFIC NETWORKS, INC.
871 FOX LANE
SAN JOSE CA 95131
US

00-E0-77 (hex) WEBGEAR, INC.
00E077 (base 16) WEBGEAR, INC.
1263 OAKMEAD PKWY
SUNNYVALE CA 94080
US

00-E0-56 (hex) HOLONTECH CORPORATION
00E056 (base 16) HOLONTECH CORPORATION
2039 SAMARITAN DRIVE
SAN JOSE CA 95124
US

00-E0-2F (hex) MCNS HOLDINGS, L.P.
00E02F (base 16) MCNS HOLDINGS, L.P.
TCI, INC.-TECHNOLOGY VENTURES
DENVER CO 80217-5630
US

00-E0-31 (hex) HAGIWARA ELECTRIC CO., LTD.
00E031 (base 16) HAGIWARA ELECTRIC
CO., LTD.
7, SHIMOKOFUKADA, ASADA-CHO
NISSHIN-SHI, AICHI 470-01
JP

00-E0-0B (hex) ROOFTOP COMMUNICATIONS CORP.
00E00B (base 16) ROOFTOP COMMUNICATIONS CORP.
468 PACO DRIVE
LOS ALTOS CA 94024
US

00-E0-99 (hex) SAMSON AG
00E099 (base 16) SAMSON AG
WEISMULLERSTR. 3
D-60314 FRANKFURT
DE

00-E0-78 (hex) BERKELEY NETWORKS
00E078 (base 16) BERKELEY NETWORKS
683 RIVER OAKS PARKWAY
SAN JOSE CA 95134
US

00-E0-4A (hex) ZX Technologies, Inc
00E04A (base 16) ZX Technologies, Inc
760 Spanish Oak Trail
Dripping Springs TX 78620
US

00-E0-7A (hex) MIKRODIDAKT AB
00E07A (base 16) MIKRODIDAKT AB
Skiffervägen 48
LUND SE22478
SE

00-60-D8 (hex) ELMIC SYSTEMS, INC.
0060D8 (base 16) ELMIC SYSTEMS, INC.
DAI-ICHI SEIMEI BLDG.
YOKOHAMA 231
JP

00-60-EF (hex) FLYTECH TECHNOLOGY CO., LTD.
0060EF (base 16) FLYTECH TECHNOLOGY CO., LTD.
No.168 Sing-ai
Rd., Neihu District
TAIPEI CITY 114

TW

00-60-85 (hex) Storage Concepts
006085 (base 16) Storage Concepts
14352 Chamber Road
Tustin CA 92780
US

00-60-11 (hex) CRYSTAL SEMICONDUCTOR CORP.
006011 (base 16) CRYSTAL SEMICONDUCTOR CORP.
P.O. BOX 17847
AUSTIN TX 78760
US

00-60-FA (hex) EDUCATIONAL TECHNOLOGY RESOURCES, INC.
0060FA (base 16) EDUCATIONAL TECHNOLOGY RESOURCES, INC.
1742 CHURCH STREET
HOLBROOK NY 11741
US

00-60-DA (hex) Red Lion Controls, LP
0060DA (base 16) Red Lion Controls, LP
20 Willow Springs Circle
York NY 17402
US

00-60-56 (hex) NETWORK TOOLS, INC.
006056 (base 16) NETWORK TOOLS, INC.
2975 BOWERS AVENUE, #202
SANTA CLARA CA 95051-0955
US

00-60-0C (hex) Eurotech Inc.
00600C (base 16) Eurotech Inc.
10260 Old Columbia Road
COLUMBIA MD 21046
US

00-60-32 (hex) I-CUBE, INC.
006032 (base 16) I-CUBE, INC.
2328-C WALSH
AVENUE
SANTA CLARA CA 95014
US

00-60-33 (hex) ACUITY IMAGING, INC.
006033 (base 16) ACUITY IMAGING, INC.
9 TOWNSEND WEST

NASHUA NH 03063
US

00-60-13 (hex) NETSTAL MASCHINEN AG
006013 (base 16) NETSTAL MASCHINEN AG
INDUSTRIESTRASSE
CH-8752 NAEFELS
CH

00-60-22 (hex) VICOM SYSTEMS, INC.
006022 (base 16) VICOM SYSTEMS, INC.
1961 LANDINGS DRIVE
MOUNTAIN VIEW CA 94043
US

00-60-EE (hex) APOLLO
0060EE (base 16) APOLLO
3610 BIRCH STREET--STE #100
NEWPORT BEACH CA 92660
US

00-02-88 (hex) GLOBAL VILLAGE COMMUNICATION
000288 (base 16) GLOBAL VILLAGE COMMUNICATION
1144 EAST ARQUES AVE.
SUNNYVALE CA 94086
US

00-60-34 (hex) ROBERT BOSCH GmbH
006034 (base 16) ROBERT BOSCH GmbH
POSTBOX 11 62
D-64701 ERBACH
DE

00-60-50 (hex) INTERNIX INC.
006050 (base 16) INTERNIX INC.
59-10 TAKAKURA-CHO
TOKYO 192
JP

00-60-E0 (hex) AXIOM TECHNOLOGY
CO., LTD.
0060E0 (base 16) AXIOM TECHNOLOGY CO., LTD.
3F, 14, LANE 235
TAIPEI HSIEN
TW

00-60-96 (hex) T.S. MICROTECH INC.
006096 (base 16) T.S. MICROTECH INC.

20818 HIGGINS COURT
TORRANCE CA 90501
US

00-60-43 (hex) iDirect, INC.
006043 (base 16) iDirect, INC.
13865 Sunrise Vally Drive
Herndon VA 20171
US

00-60-3A (hex) QUICK CONTROLS LTD.
00603A (base 16) QUICK CONTROLS LTD.
DURHAM HOUSE, WARWICK COURT
MANCHESTER M24 1AE
GB

00-60-28 (hex) MACROVISION CORPORATION
006028 (base 16) MACROVISION CORPORATION
2830 De La Cruz Boulevard
Santa Clara CA 95050
US

00-60-F0 (hex) JOHNSON & JOHNSON MEDICAL, INC
0060F0 (base 16) JOHNSON & JOHNSON MEDICAL, INC
4110 GEORGE RD.
TAMPA FL 33634
US

00-60-F5 (hex) ICON WEST, INC.
0060F5 (base 16) ICON WEST, INC.
3342 SOUTH 300 EAST
SALT LAKE CITY UT 84115
US

00-60-62 (hex) TELESYNC, INC.
006062
(base 16) TELESYNC, INC.
5555 OAKBROOK PKWY-STE #110
NORCROSS GA 30093
US

00-60-1C (hex) TELXON CORPORATION
00601C (base 16) TELXON CORPORATION
3330 W. MARKET STREET
AKRON OH 44334-0582
US

00-60-AE (hex) TRIO INFORMATION SYSTEMS AB

0060AE (base 16) TRIO INFORMATION SYSTEMS AB
FOGDEVAGEN 4B
S-183 64 TABY
SE

00-60-53 (hex) TOYODA MACHINE WORKS, LTD.
006053 (base 16) TOYODA MACHINE WORKS, LTD.
1-7 KITAJIZOYAMA NODACHOU
KARIYA CITY, AICHI
JO

00-60-E4 (hex) COMPUSERVE, INC.
0060E4 (base 16) COMPUSERVE, INC.
5000 ARLINGTON CENTRE BLVD.
COLUMBUS OH 43220
US

00-60-8F (hex) TEKRAM TECHNOLOGY CO., LTD.
00608F (base 16) TEKRAM TECHNOLOGY CO., LTD.
B1, NO. 17, LANE 159, SEC. 6
TAIPEI
TW

00-60-C4 (hex) SOLITON SYSTEMS K.K.
0060C4 (base 16) SOLITON SYSTEMS K.K.
2-4-3 SHINJUKU, SHINJUKU-KU
TOKYO 160
JP

00-60-A6 (hex) PARTICLE
MEASURING SYSTEMS
0060A6 (base 16) PARTICLE MEASURING SYSTEMS
5475 AIRPORT BLVD.
BOULDER CO 80301
US

00-60-2A (hex) SYMICRON COMPUTER COMMUNICATIONS, LTD.
00602A (base 16) SYMICRON COMPUTER COMMUNICATIONS, LTD.
UNIT 4 GREEN LANE BUSINESS PARK
London SE9 3TL
US

00-A0-37 (hex) Mindray DS USA, Inc.
00A037 (base 16) Mindray DS USA, Inc.
800 Macarthur Blvd.
Mahwah NJ 07430
US

00-A0-4C (hex) INNOVATIVE SYSTEMS & TECHNOLOGIES, INC.
00A04C (base 16) INNOVATIVE SYSTEMS & TECHNOLOGIES, INC.
48511 WARM SPRINGS BLVD.
FREMONT CA 94539
US

00-A0-31 (hex) HAZELTINE CORPORATION, MS 1-17
00A031 (base 16) HAZELTINE CORPORATION, MS 1-17
450 E. PULASKI ROAD
GREENLAWN NY 11740
US

00-A0-41 (hex) INFICON
00A041 (base 16) INFICON
2 Technology Place
E. Syracuse NY 13057
US

00-A0-3C (hex) EG&G NUCLEAR INSTRUMENTS
00A03C (base 16) EG&G NUCLEAR INSTRUMENTS
100 MIDLAND
ROAD
OAK RIDGE TN 37830
US

00-A0-C4 (hex) CRISTIE ELECTRONICS LTD.
00A0C4 (base 16) CRISTIE ELECTRONICS LTD.
BOND'S MILL
GLOUCESTERSHIRE GL10 3RG
GB

00-A0-63 (hex) JRL SYSTEMS, INC.
00A063 (base 16) JRL SYSTEMS, INC.
8305 HWY 71 WEST
AUSTIN TX 78735
US

00-A0-2C (hex) interWAVE Communications
00A02C (base 16) interWAVE Communications
656 BAIR ISLAND BLVD.-STE.#108
REDWOOD CITY CA 94063-2704
US

00-A0-F7 (hex) V.I COMPUTER CORP.
00A0F7 (base 16) V.I COMPUTER CORP.
531 ENCINITAS BLVD--#114
ENCINITAS CA 92024
US

00-A0-90 (hex) TimeStep Corporation
00A090 (base 16) TimeStep Corporation
359 TERRY FOX DRIVE
KANATA, ONTARIO K2K 2E7
CA

00-A0-33 (hex) imc MeBsysteme GmbH
00A033 (base 16) imc MeBsysteme GmbH
VOLTASTRASSE 5
D-13355 BERLIN
DE

00-A0-A9 (hex) NAVTEL COMMUNICATIONS INC.
00A0A9 (base 16) NAVTEL COMMUNICATIONS INC.
55 RENFREW
DRIVE
MARKHAM, ONTARIO L3R 8H3
CA

00-A0-71 (hex) VIDEO LOTTERY TECHNOLOGIES,INC
00A071 (base 16) VIDEO LOTTERY TECHNOLOGIES,INC
2311 SOUTH 7TH AVENUE
BOZEMAN MT 59715
US

00-A0-6D (hex) MANNESMANN TALLY CORPORATION
00A06D (base 16) MANNESMANN TALLY CORPORATION
P.O. BOX 97018
KENT WA 98064-9718
US

00-A0-F6 (hex) AutoGas Systems Inc.
00A0F6 (base 16) AutoGas Systems Inc.
P.O. BOX 6957
ABIOLENE TX 79608
US

00-A0-A7 (hex) VORAX CORPORATION
00A0A7 (base 16) VORAX CORPORATION
1031 EAST DUANE AVENUE, STE H
SUNNYVALE CA 94086
US

00-A0-E2 (hex) Keisokugiken Corporation
00A0E2 (base 16) Keisokugiken Corporation
2021-5 Houshakuji
Shioya-gun Tochigi 329-1233

JP

00-A0-61 (hex) PURITAN BENNETT
00A061 (base 16) PURITAN BENNETT
2200 FARADAY AVENUE
CARLSBAD CA 92008
US

00-60-80 (hex) MICROTRONIX DATACOM LTD.
006080 (base 16) MICROTRONIX DATACOM
LTD.
4056 Meadowbrook Drive, Unit 126
LONDON ONTARIO N6L 1E3
CA

00-60-BE (hex) WEBTRONICS
0060BE (base 16) WEBTRONICS
3B-1 8-2-12
SHINAGAWA-KU TOKYO 141
JP

00-60-BF (hex) MACRAIGOR SYSTEMS, INC.
0060BF (base 16) MACRAIGOR SYSTEMS, INC.
PO BOX 1008
BROOKLINE VILLAGE MA 02147
US

00-A0-EA (hex) ETHERCOM CORP.
00A0EA (base 16) ETHERCOM CORP.
45990 HOTCHKISS ST.
FREEMONT CA 94539
US

00-A0-DC (hex) O.N. ELECTRONIC CO., LTD.
00A0DC (base 16) O.N. ELECTRONIC CO., LTD.
3-20-27, TARUMI
SUITA, OSAKA 564
JP

00-A0-0B (hex) COMPUTEX CO., LTD.
00A00B (base 16) COMPUTEX CO., LTD.
432-13 GOJYOBASHI-HIGASHI 4-CHYOME
HIGASHIYAMAKU, KYOTO-CITY 605
JP

00-60-00 (hex) XYCOM INC.
006000 (base 16) XYCOM INC.
750 N. MAPLE

SALINE MI 48176
US

00-60-45 (hex) PATHLIGHT TECHNOLOGIES
006045 (base 16) PATHLIGHT TECHNOLOGIES
767 WARREN ROAD
ITHACA
NY 14850
US

00-A0-5D (hex) CS COMPUTER SYSTEME GmbH
00A05D (base 16) CS COMPUTER SYSTEME GmbH
ISARSTRASSE 3,
82065 BAIERBRUNN
DE

00-A0-1A (hex) BINAR ELEKTRONIK AB
00A01A (base 16) BINAR ELEKTRONIK AB
MAGNETUAGEN 18

SE

00-A0-88 (hex) ESSENTIAL COMMUNICATIONS
00A088 (base 16) ESSENTIAL COMMUNICATIONS
4374 ALEXANDER BLVD. NE-STE
ALBUQUERQUE NM 87107
US

00-A0-C2 (hex) R.A. SYSTEMS CO., LTD.
00A0C2 (base 16) R.A. SYSTEMS CO., LTD.
1850-3 HIROOKANOMURA

JP

00-A0-81 (hex) ALCATEL DATA NETWORKS
00A081 (base 16) ALCATEL DATA NETWORKS
12502 SUNRISE VALLEY DRIVE
RESTON VA 22096
US

00-A0-6C (hex) SHINDENGEN ELECTRIC MFG. CO., LTD.
00A06C (base 16) SHINDENGEN ELECTRIC MFG. CO., LTD.
10-13, MINAMI-CHO, HANNOU-CITY
SAITAMA 357
JO

00-A0-1F (hex) TRICORD SYSTEMS, INC.
00A01F (base 16) TRICORD SYSTEMS, INC.

2800 NORTHWEST BOULEVARD
PLYMOUTH
MN 55441-2625
US

00-A0-FB (hex) Toray Engineering D Solutions Co., Ltd.
00A0FB (base 16) Toray Engineering D Solutions Co., Ltd.
1-45, OE 1-CHOME
OTSU CITY 520-2141
JP

00-A0-97 (hex) JC INFORMATION SYSTEMS
00A097 (base 16) JC INFORMATION SYSTEMS
4487 TECHNOLOGY DRIVE
FREMONT CA 94538-6343
US

00-A0-73 (hex) COM21, INC.
00A073 (base 16) COM21, INC.
2113 LANDINGS DRIVE
MOUNTAIN VIEW CA 94043
US

00-A0-3A (hex) KUBOTEK CORPORATION
00A03A (base 16) KUBOTEK CORPORATION
56 NISHIAKETA-CHO, HIGASHIKUJO

JP

00-A0-B2 (hex) SHIMA SEIKI
00A0B2 (base 16) SHIMA SEIKI
85, SAKATA WAKAYAMA-CITY

JP

00-A0-4B (hex) TFL LAN INC.
00A04B (base 16) TFL LAN INC.
9F, NO. 499 CHUNG CHENG ROAD
TAIWAN TAIWAN R.O.C.
TW

00-A0-64 (hex) KVB/ANALECT
00A064 (base 16) KVB/ANALECT
9420 JERONIMO ROAD
IRVINE CA 92718
US

00-A0-3E (hex) ATM

FORUM
00A03E (base 16) ATM FORUM
WORLDWIDE HEADQUARTERS
FOSTER CITY CA 94404-1138
US

00-A0-98 (hex) NetApp
00A098 (base 16) NetApp
1395 Crossman Ave
Sunnyvale, CA 94089
US

00-A0-DB (hex) FISHER & PAYKEL PRODUCTION
00A0DB (base 16) FISHER & PAYKEL PRODUCTION
MACHINERY LIMITED

NZ

00-A0-7E (hex) AVID TECHNOLOGY, INC.
00A07E (base 16) AVID TECHNOLOGY, INC.
METROPOLITAN TECHNOLOGY PARK
TEWKSBURY MA 01876
US

00-A0-6F (hex) Color Sentinel Systems, LLC
00A06F (base 16) Color Sentinel Systems, LLC
97 Ridgeland Rd, Suite #2
ROCHESTER NY 14623
US

00-A0-C7 (hex) TADIRAN TELECOMMUNICATIONS
00A0C7 (base 16) TADIRAN TELECOMMUNICATIONS
P.O. BOX 500
PETAH-TIKVA 49104
IL

00-A0-27 (hex) FIREPOWER SYSTEMS, INC.
00A027 (base 16) FIREPOWER SYSTEMS, INC.
190 INDEPENDENCE DRIVE
MENLO PARK CA 94025
US

00-A0-46 (hex) SCITEX CORP. LTD.
00A046 (base
16) SCITEX CORP. LTD.
P.O.BOX 330

IL

00-A0-92 (hex) H. BOLLMANN MANUFACTURERS, LTD
00A092 (base 16) H. BOLLMANN MANUFACTURERS, LTD
26 VICTORIA WAY
ENGLAND
GB

00-A0-8B (hex) ASTON ELECTRONIC DESIGNS LTD.
00A08B (base 16) ASTON ELECTRONIC DESIGNS LTD.
123/127 DEEPCUT BRIDGE ROAD
ENGLAND
GB

00-20-0D (hex) CARL ZEISS
00200D (base 16) CARL ZEISS
POSTFACH 1380

DE

00-20-2D (hex) TAIYO CORPORATION
00202D (base 16) TAIYO CORPORATION
1-2-6 SANNOH, OHTA-KU
143
JP

00-20-91 (hex) J125, NATIONAL SECURITY AGENCY
002091 (base 16) J125, NATIONAL SECURITY AGENCY
9800 SAVAGE ROAD
FT. MEADE MD 20755-6000
US

00-20-BD (hex) NIOBRARA R & D CORPORATION
0020BD (base 16) NIOBRARA R & D CORPORATION
PO BOX 3418
JOPLIN MO 64803-3418
US

00-20-54 (hex) Sycamore Networks
002054 (base 16) Sycamore Networks
220 Mill Rd
Chelmsford MA 01824
US

00-20-A7
(hex) PAIRGAIN TECHNOLOGIES, INC.
0020A7 (base 16) PAIRGAIN TECHNOLOGIES, INC.
14402 FRANKLIN AVENUE
TUSTIN CA 92680-7013

US

00-20-72 (hex) WORKLINK INNOVATIONS
002072 (base 16) WORKLINK INNOVATIONS
2452 ARMSTRONG STREET
LIVERMORE CA 9455O
US

00-20-10 (hex) JEOL SYSTEM TECHNOLOGY CO. LTD
002010 (base 16) JEOL SYSTEM TECHNOLOGY CO. LTD
3-1-2 Musashino
Akishima-shi Tokyo 196-8558
JP

00-20-9F (hex) MERCURY COMPUTER SYSTEMS, INC.
00209F (base 16) MERCURY COMPUTER SYSTEMS, INC.
199 RIVERNECK ROAD
CHELMSFORD MA 01824
US

00-20-CB (hex) PRETEC ELECTRONICS CORP.
0020CB (base 16) PRETEC ELECTRONICS CORP.
39899 BALENTINE DR.
NEWARK CA 94560
US

00-20-EB (hex) CINCINNATI MICROWAVE, INC.
0020EB (base 16) CINCINNATI MICROWAVE, INC.
ONE MICROWAVE PLAZA
CINCINNATI OH 45249
US

00-20-A0 (hex) OA LABORATORY CO., LTD.
0020A0 (base 16) OA LABORATORY
CO., LTD.
228 KAMIMACHIYA KAMAKURA

JP

00-20-75 (hex) MOTOROLA COMMUNICATION ISRAEL
002075 (base 16) MOTOROLA COMMUNICATION ISRAEL
3 KREMENETSKI STREET
TEL-AVIV 61250
IL

00-20-A5 (hex) API ENGINEERING
0020A5 (base 16) API ENGINEERING
2689 POPLARWOOD WAY

SAN JOSE CA 95132
US

00-20-64 (hex) PROTEC MICROSYSTEMS, INC.
002064 (base 16) PROTEC MICROSYSTEMS, INC.
297 LABROSSE
POINTE-CLAIRE, QUEBEC H9R 1A3
CA

00-20-33 (hex) SYNAPSE TECHNOLOGIES, INC.
002033 (base 16) SYNAPSE TECHNOLOGIES, INC.
4822 ALBEMARLE ROAD, #104
CHARLOTTE NC 28205
US

00-20-EA (hex) EFFICIENT NETWORKS, INC.
0020EA (base 16) EFFICIENT NETWORKS, INC.
4201 SPRING VALLEY ROAD
DALLAS TX 75244-3666
US

00-20-CF (hex) TEST & MEASUREMENT SYSTEMS INC
0020CF (base 16) TEST & MEASUREMENT SYSTEMS INC
2045 SITKA COURT
LOVELAND CO 80538
US

00-20-B4 (hex) TERMA ELEKTRONIK
AS
0020B4 (base 16) TERMA ELEKTRONIK AS
HOVMARKEN 4,
DK-8520 LYSTRUP
DK

00-20-E4 (hex) HSING TECH ENTERPRISE CO., LTD
0020E4 (base 16) HSING TECH ENTERPRISE CO., LTD
NO. 2, LANE 128, SEC. 2
TEIPEI,
TW

00-20-A2 (hex) GALCOM NETWORKING LTD.
0020A2 (base 16) GALCOM NETWORKING LTD.
P.O. BOX 1568
RAMAT HASHARON 47113
IL

00-20-31 (hex) Tattile SRL
002031 (base 16) Tattile SRL

AM PESTALOZZIRING 24
D-91058 ERLANGEN
DE

00-20-E2 (hex) INFORMATION RESOURCE ENGINEERING
0020E2 (base 16) INFORMATION RESOURCE ENGINEERING
8029 CORPORATE DRIVE
BALTIMORE MD 21236
US

00-20-07 (hex) SFA, INC.
002007 (base 16) SFA, INC.
1401 MCCORMICK DRIVE
LANDOVER MD 20785
US

00-20-5C (hex) InterNet Systems of Florida, Inc.
00205C (base 16) InterNet Systems of Florida, Inc.
P.O. BOX 578
CRESTVIEW FL 32536
US

00-20-55 (hex) ALTECH CO., LTD.
002055
(base 16) ALTECH CO., LTD.
OHISHI BLDG., 2-23-11
TOKYO 116
JP

00-20-0A (hex) SOURCE-COMM CORP.
00200A (base 16) SOURCE-COMM CORP.
25020 W. AVENUE STANFORD
VALENCIA CA 91355
US

00-20-D0 (hex) VERSALYNX CORPORATION
0020D0 (base 16) VERSALYNX CORPORATION
8950 CARLEY CIRCLE
SAN DIEGO CA 92126
US

00-20-6C (hex) EVERGREEN TECHNOLOGY CORP.
00206C (base 16) EVERGREEN TECHNOLOGY CORP.
231 EMERSON STREET
PALO ALTO CA 94301
US

00-20-5E (hex) CASTLE ROCK, INC.

00205E (base 16) CASTLE ROCK, INC.
20 SOUTH SANTA CRUZ AVE.
LOS GATOS CA 95030
US

00-20-12 (hex) CAMTRONICS MEDICAL SYSTEMS
002012 (base 16) CAMTRONICS MEDICAL SYSTEMS
P.O. BOX 950
HARTLAND WI 53029
US

00-A0-B1 (hex) FIRST VIRTUAL CORPORATION
00A0B1 (base 16) FIRST VIRTUAL CORPORATION
3393 OCTAVIUS DR.-STE.# 102
SANTA CLARA CA 95054
US

00-A0-D4 (hex) RADIOLAN, INC.
00A0D4 (base
16) RADIOLAN, INC.
454 DEGUIGNE DRIVE - STE
SUNNYVALE CA 94086
US

00-20-B9 (hex) METRICOM, INC.
0020B9 (base 16) METRICOM, INC.
980 UNIVERSITY AVENUE
LOS GATOS CA 95030
US

00-20-39 (hex) SCINETS
002039 (base 16) SCINETS
1575 TENAKA - STE# N8
SUNNYVALE CA 94087
US

00-20-E8 (hex) DATATREK CORPORATION
0020E8 (base 16) DATATREK CORPORATION
4505 WYLAND DRIVE
ELKHART IN 46516
US

00-20-C5 (hex) EAGLE TECHNOLOGY
0020C5 (base 16) EAGLE TECHNOLOGY
2865 ZANKER ROAD
SAN JOSE CA 95134
US

00-20-09 (hex) PACKARD BELL ELEC., INC.
002009 (base 16) PACKARD BELL ELEC., INC.
9425 CANOGA AVENUE
CHATSWORTH CA 913211
US

00-20-27 (hex) MING FORTUNE INDUSTRY CO., LTD
002027 (base 16) MING FORTUNE INDUSTRY CO., LTD
4F, NO. 800 CHUNG CHENG RD,
TAIWAN TAIWAN R.O.C.
TW

00-20-2C (hex) WELLTRONIX CO., LTD.
00202C (base 16) WELLTRONIX CO., LTD.
3F, NO.
36-1, HWANG HSI STREET
TAIWAN TAIWAN R.O.C.
TW

00-20-84 (hex) OCE PRINTING SYSTEMS, GMBH
002084 (base 16) OCE PRINTING SYSTEMS, GMBH
SIEMENSALLEE 2

DE

00-20-EC (hex) TECHWARE SYSTEMS CORP.
0020EC (base 16) TECHWARE SYSTEMS CORP.
#100 - 12051 HORSESHOE WAY
V7A 4V4
CA

00-20-6E (hex) XACT, INC.
00206E (base 16) XACT, INC.
P.O. BOX 55
ARGYLE TX 76226
US

00-20-F1 (hex) ALTOS INDIA LIMITED
0020F1 (base 16) ALTOS INDIA LIMITED
D-60, OKLHLA INDUSTRIAL

IN

00-20-41 (hex) DATA NET
002041 (base 16) DATA NET
SUWON P.O. BOX 106, SUWON
KOREA 440-600
KR

00-20-76 (hex) REUDO CORPORATION
002076 (base 16) REUDO CORPORATION
4-1-10 SHINSAN

JP

00-C0-43 (hex) STRATACOM
00C043 (base 16) STRATACOM
1400 PARKMOOR AVENUE
SAN JOSE CA 95126
US

00-C0-B5 (hex) CORPORATE NETWORK SYSTEMS,INC.
00C0B5 (base 16) CORPORATE NETWORK SYSTEMS,INC.
5711
SIX FORKS ROAD--STE #306
RALEIGH NC 27609
US

00-C0-4B (hex) CREATIVE MICROSYSTEMS
00C04B (base 16) CREATIVE MICROSYSTEMS
9, AVENUE DU CANADA
91966 LES ULIS---FRANC
FR

00-20-8A (hex) SONIX COMMUNICATIONS, LTD.
00208A (base 16) SONIX COMMUNICATIONS, LTD.
WILKINSON ROAD
ENGLAND
GB

00-20-D2 (hex) RAD DATA COMMUNICATIONS, LTD.
0020D2 (base 16) RAD DATA COMMUNICATIONS, LTD.
8 HANECHOSHET STREET

KZ

00-20-02 (hex) SERITECH ENTERPRISE CO., LTD.
002002 (base 16) SERITECH ENTERPRISE CO., LTD.
FL. 182, NO. 531-1
TAIWAN TAIWAN R.O.C.
TW

00-20-4B (hex) AUTOCOMPUTER CO., LTD.
00204B (base 16) AUTOCOMPUTER CO., LTD.
NO. 18, PEI YUAN ROAD
TAIWAN TAIWAN R.O.C.

TW

00-20-8C (hex) GALAXY NETWORKS, INC.
00208C (base 16) GALAXY NETWORKS, INC.
9348 DE SOTO AVENUE
CHATSWORTH CA 91311
US

00-C0-B9 (hex) FUNK SOFTWARE, INC.
00C0B9 (base
16) FUNK SOFTWARE, INC.
222 THIRD STREET
CAMBRIDGE MA 02142
US

00-20-BB (hex) ZAX CORPORATION
0020BB (base 16) ZAX CORPORATION
20-12 OGIKUBO 5-CHOME
167
JP

00-20-A8 (hex) SAST TECHNOLOGY CORP.
0020A8 (base 16) SAST TECHNOLOGY CORP.
225 OLD NEW BRUNSWICK RD.
PISCATAWAY NJ 08854
US

00-20-45 (hex) ION Networks, Inc.
002045 (base 16) ION Networks, Inc.
1551 South Washington Ave.
Piscataway NJ 08854
US

00-20-21 (hex) ALGORITHMS SOFTWARE PVT. LTD.
002021 (base 16) ALGORITHMS SOFTWARE PVT. LTD.
83 JOLLY MAKER CHAMBERS II

IN

00-20-49 (hex) COMTRON, INC.
002049 (base 16) COMTRON, INC.
SANCATHERINA BLDG.
TOKYO 160
JP

00-20-50 (hex) KOREA COMPUTER INC.
002050 (base 16) KOREA COMPUTER INC.
469, DAEHEUNG-DONG

KOREA
KR

00-20-A6 (hex) Proxim Wireless
0020A6 (base 16) Proxim Wireless
2114 Ringwood Ave
San Jose CA 95131
US

00-20-6A
(hex) OSAKA COMPUTER CORP.
00206A (base 16) OSAKA COMPUTER CORP.
2-8 KOYACHOU NEYAGAW-SHI

JP

00-20-DB (hex) XNET TECHNOLOGY, INC.
0020DB (base 16) XNET TECHNOLOGY, INC.
426 S. HILLVIEW DRIVE
MILPITAS CA 95035
US

00-C0-7F (hex) NUPON COMPUTING CORP.
00C07F (base 16) NUPON COMPUTING CORP.
1391 WARNER AVE., -SUITE
TUSTIN CA 92680
US

00-C0-57 (hex) MYCO ELECTRONICS
00C057 (base 16) MYCO ELECTRONICS
MUSSERONGRAND 1G

SE

00-C0-56 (hex) SOMELEC
00C056 (base 16) SOMELEC
BP 7010 - 95050

FR

00-C0-27 (hex) CIPHER SYSTEMS, INC.
00C027 (base 16) CIPHER SYSTEMS, INC.
22115 NW Imbrie Dr #285
Hillsboro OR 97124
US

00-C0-5C (hex) ELONEX PLC
00C05C (base 16) ELONEX PLC

2 APSLEY WAY
UNITED KINGDOM
GB

00-C0-ED (hex) US ARMY ELECTRONIC
00C0ED (base 16) US ARMY ELECTRONIC
PROVING GROUND
SIERRA VISTA AZ 85635
US

00-C0-28
(hex) JASCO CORPORATION
00C028 (base 16) JASCO CORPORATION
2967-5 ISHIKAWA-CHO,

JP

00-C0-8D (hex) TRONIX PRODUCT DEVELOPMENT
00C08D (base 16) TRONIX PRODUCT DEVELOPMENT
4908 E. MCDOWELL RD. STE.#100
PHOENIX AZ 85008
US

00-C0-2A (hex) OHKURA ELECTRIC CO., LTD.
00C02A (base 16) OHKURA ELECTRIC CO., LTD.
2-90-20 SHIRAKO WAKO CITY
351-01
JP

00-C0-EF (hex) ABIT CORPORATION
00C0EF (base 16) ABIT CORPORATION
29-11 HIRAOKA-CHO
192
JP

00-C0-61 (hex) SOLECTEK CORPORATION
00C061 (base 16) SOLECTEK CORPORATION
6370 NANCY RIDGE DR.-STE.#109
SAN DIEGO CA 92121
US

00-C0-AD (hex) MARBEN COMMUNICATION SYSTEMS
00C0AD (base 16) MARBEN COMMUNICATION SYSTEMS
1 RUE DU BOIS CHALAND

FR

00-C0-75 (hex) XANTE CORPORATION

00C075 (base 16) XANTE CORPORATION
2559 EMOGENE STREET
MOBILE AL 36606
US

00-1C-7C (hex) PERQ SYSTEMS CORPORATION
001C7C
(base 16) PERQ SYSTEMS CORPORATION
2600 LIBERTY AVENUE
PITTSBURGH PA 15230
US

00-C0-39 (hex) Teridian Semiconductor Corporation
00C039 (base 16) Teridian Semiconductor Corporation
6440 Oak Canyon
Irvine CA 92618
US

00-C0-A9 (hex) BARRON MCCANN LTD.
00C0A9 (base 16) BARRON MCCANN LTD.
BEMAC HOUSE
UNITED KINGDOM
GB

00-C0-19 (hex) LEAP TECHNOLOGY, INC.
00C019 (base 16) LEAP TECHNOLOGY, INC.
20
BURLINGTON MA 01803
US

00-C0-CF (hex) IMATRAN VOIMA OY
00C0CF (base 16) IMATRAN VOIMA OY
IVO

FI

00-C0-5B (hex) NETWORKS NORTHWEST, INC.
00C05B (base 16) NETWORKS NORTHWEST, INC.
P.O. BOX 1188
ISSAQUAH WA 98027
US

00-C0-08 (hex) SECO SRL
00C008 (base 16) SECO SRL
VIA CALAMANDREI 91

IT

00-C0-B7 (hex) AMERICAN POWER CONVERSION CORP
00C0B7 (base 16) AMERICAN POWER CONVERSION CORP
267 BOSTON ROAD #2
NORTH BILLERICA
MA 01862
US

00-C0-FC (hex) ELASTIC REALITY, INC.
00C0FC (base 16) ELASTIC REALITY, INC.
925 STEWART STREET
MADISON WI 53713
US

00-C0-BB (hex) FORVAL CREATIVE, INC.
00C0BB (base 16) FORVAL CREATIVE, INC.
3-27-12 HONGO

JP

00-C0-15 (hex) NEW MEDIA CORPORATION
00C015 (base 16) NEW MEDIA CORPORATION
15375 BARRANCA PARKWAY
IRVINE CA 92718
US

00-C0-83 (hex) TRACE MOUNTAIN PRODUCTS, INC.
00C083 (base 16) TRACE MOUNTAIN PRODUCTS, INC.
1040 EAST BROKAW ROAD
SAN JOSE CA 95131
US

00-C0-94 (hex) VMX INC.
00C094 (base 16) VMX INC.
2115 O'NEL DRIVE
SAN JOSE CA 95131
US

00-C0-F9 (hex) Artesyn Embedded Technologies
00C0F9 (base 16) Artesyn Embedded Technologies
2900 S. Diablo Way Suite 190
Tempe AZ 85282
US

00-C0-32 (hex) I-CUBED LIMITED
00C032 (base 16) I-CUBED LIMITED
UNIT J1, THE POADDOCKS
CB1 4DH CB1 4DH ENGLAND
GB

00-C0-A5
(hex) DICKENS DATA SYSTEMS
00C0A5 (base 16) DICKENS DATA SYSTEMS
1175 NORTHMEADOW PKWY-STE #150
ROSWELL GA 30076
US

00-C0-D3 (hex) OLYMPUS IMAGE SYSTEMS, INC.
00C0D3 (base 16) OLYMPUS IMAGE SYSTEMS, INC.
15271 BARRANCA PARKWAY
IRVINE CA 92718-2201
US

00-C0-7D (hex) RISC DEVELOPMENTS LTD.
00C07D (base 16) RISC DEVELOPMENTS LTD.
117 HATFIELD ROAD
ENGLAND
GB

00-C0-E0 (hex) DSC COMMUNICATION CORP.
00C0E0 (base 16) DSC COMMUNICATION CORP.
1000 COIT ROAD, MS#ADVP 3
PLANO TX 75075
US

00-C0-DA (hex) NICE SYSTEMS LTD.
00C0DA (base 16) NICE SYSTEMS LTD.
3 TEVUOT HA'ARETZ ST

IL

00-40-D9 (hex) AMERICAN MEGATRENDS INC.
0040D9 (base 16) AMERICAN MEGATRENDS INC.
6145F N BELT PARKWAY
NORCROSS GA 30071
US

00-40-21 (hex) RASTER GRAPHICS
004021 (base 16) RASTER GRAPHICS
285 N. WOLFE ROAD
SUNNYVALE CA 94086
US

00-40-C1 (hex) BIZERBA-WERKE WILHEIM
KRAUT
0040C1 (base 16) BIZERBA-WERKE WILHEIM KRAUT
GMBH & CO. KG,

D-7460 BALINGEN D-7460 BALINGEN
DE

00-40-E1 (hex) MARNER INTERNATIONAL, INC.
0040E1 (base 16) MARNER INTERNATIONAL, INC.
1617 93RD LANE NE
BLAINE MN 55449
US

00-40-FE (hex) SYMPLEX COMMUNICATIONS
0040FE (base 16) SYMPLEX COMMUNICATIONS
5 RESEARCH DRIVE
ANN ARBOR MI 48103
US

00-C0-E8 (hex) PLEXCOM, INC.
00C0E8 (base 16) PLEXCOM, INC.
65 MORELAND ROADENUYE
SIMI VALLEY CA 93065
US

00-C0-D1 (hex) COMTREE TECHNOLOGY CORPORATION
00C0D1 (base 16) COMTREE TECHNOLOGY CORPORATION
5F-7, NO. 1, FU-HSING NORTH RD
TAIWAN R.O.C.
CN

00-C0-38 (hex) RASTER IMAGE PROCESSING SYSTEM
00C038 (base 16) RASTER IMAGE PROCESSING SYSTEM
4665 NAUTILUS COURT SOUTH
BOULDER CO 80301
US

00-C0-92 (hex) MENNEN MEDICAL INC.
00C092 (base 16) MENNEN MEDICAL INC.
10123 MAIN STREET
CLARENCE NY 14031-2095
US

00-C0-52
(hex) BURR-BROWN
00C052 (base 16) BURR-BROWN
P.O. BOX 11400
TUCSON AZ 85734-1400
US

00-40-BD (hex) STARLIGHT NETWORKS, INC.
0040BD (base 16) STARLIGHT NETWORKS, INC.

444 CASTRO STREET STE
MOUNTAIN VIEW CA 94041
US

00-40-ED (hex) NETWORK CONTROLS INT'NATL INC.
0040ED (base 16) NETWORK CONTROLS INT'NATL INC.
9 WOODLAWN GREEN
CHARLOTTE NC 28217
US

00-40-E5 (hex) SYBUS CORPORATION
0040E5 (base 16) SYBUS CORPORATION
2300 TALL PINE DRIVE-STE. #100
LARGO FL 34641
US

00-40-A5 (hex) CLINICOMP INTL.
0040A5 (base 16) CLINICOMP INTL.
4510 EXECCUTIVE DRIVE-STE.#200
SAN DIEGO CA 92121
US

00-40-05 (hex) ANI COMMUNICATIONS INC.
004005 (base 16) ANI COMMUNICATIONS INC.
8 ANZIO
IRVINE CA 92714
US

00-C0-30 (hex) INTEGRATED ENGINEERING B. V.
00C030 (base 16) INTEGRATED ENGINEERING B. V.
ELLERMANSTRAAT 15
THE
NL

00-C0-A6 (hex) EXICOM
AUSTRALIA PTY. LTD
00C0A6 (base 16) EXICOM AUSTRALIA PTY. LTD
44-46 MANDARIN STREET

AU

00-C0-CB (hex) CONTROL TECHNOLOGY CORPORATION
00C0CB (base 16) CONTROL TECHNOLOGY CORPORATION
25 SOUTH STREET
HOPKINTON MA 01748
US

00-C0-EB (hex) SEH COMPUTERTECHNIK GMBH

00C0EB (base 16) SEH COMPUTERTECHNIK GMBH
Suedring 11

DE

00-40-DB (hex) ADVANCED TECHNICAL SOLUTIONS
0040DB (base 16) ADVANCED TECHNICAL SOLUTIONS
8050 SEMINOLE OFFICE CENTER
SEMINOLE FL 34642
US

00-40-9B (hex) HAL COMPUTER SYSTEMS INC.
00409B (base 16) HAL COMPUTER SYSTEMS INC.
1315 DELL AVENUE
CAMPBELL CA 95008
US

00-40-EB (hex) MARTIN MARIETTA CORPORATION
0040EB (base 16) MARTIN MARIETTA CORPORATION
12506 LAKE UNDERHILL
ORLANDO FL 32825
US

00-40-D4 (hex) GAGE TALKER CORP.
0040D4 (base 16) GAGE TALKER CORP.
13680 NE 16TH STREET
BELLEVUE WA 98005
US

00-40-38
(hex) TALENT ELECTRIC INCORPORATED
004038 (base 16) TALENT ELECTRIC INCORPORATED
3RD FL., NO. 260, PA TEH ROAD
TAIWAN TAIWAN R.O.C.
TW

00-40-D8 (hex) OCEAN OFFICE AUTOMATION LTD.
0040D8 (base 16) OCEAN OFFICE AUTOMATION LTD.
4TH & 5TH FLOOR, KADER BLDG.
HONG KONG
HK

00-40-C6 (hex) FIBERNET RESEARCH, INC.
0040C6 (base 16) FIBERNET RESEARCH, INC.
1 TARA BOULEVARD-#405
NASHUA NH 03062
US

00-40-32 (hex) DIGITAL COMMUNICATIONS
004032 (base 16) DIGITAL COMMUNICATIONS
ASSOCIATES, INC.
SAN JOSE CA 95131
US

00-40-C2 (hex) APPLIED COMPUTING DEVICES
0040C2 (base 16) APPLIED COMPUTING DEVICES
ALEPH PARK
TERRE HAUTE IN 47802
US

00-40-88 (hex) MOBIUS TECHNOLOGIES, INC.
004088 (base 16) MOBIUS TECHNOLOGIES, INC.
5835 DOYLE STREET
EMERYVILLE CA 94608
US

00-80-AA (hex) MAXPEED
0080AA (base 16) MAXPEED
1120 CHESS DRIVE
FOSTER CITY CA 94404
US

00-C0-50
(hex) TOYO DENKI SEIZO K.K.
00C050 (base 16) TOYO DENKI SEIZO K.K.
4-6-32 HIGASHIKASHIWAGAYA
KANAGAWA JAPAN 243-04
JP

00-40-0E (hex) MEMOTEC, INC.
00400E (base 16) MEMOTEC, INC.
7755 Henri-Bourassa
MONTREAL, QUEBEC H4S 1P7
CA

00-C0-3D (hex) WIESEMANN & THEIS GMBH
00C03D (base 16) WIESEMANN & THEIS GMBH
WITTENER STR. 312

DE

00-40-4C (hex) HYPERTEC PTY LTD.
00404C (base 16) HYPERTEC PTY LTD.
P.O. BOX 1782

AU

00-40-C8 (hex) MILAN TECHNOLOGY CORPORATION
0040C8 (base 16) MILAN TECHNOLOGY CORPORATION
894 ROSS DRIVE--STE #105
SUNNYVALE CA 94089
US

00-40-BA (hex) ALLIANT COMPUTER SYSTEMS CORP.
0040BA (base 16) ALLIANT COMPUTER SYSTEMS CORP.
ONE MONARCH DRIVE
LITTLETON MA 01460
US

00-40-CE (hex) NET-SOURCE, INC.
0040CE (base 16) NET-SOURCE, INC.
1265 EL CAMINO REAL
SANTA CLARA CA 95050
US

00-40-50 (hex) IRONICS, INCORPORATED
004050
(base 16) IRONICS, INCORPORATED
767 WARREN RD
ITHACA N.Y. 14850
US

00-40-47 (hex) WIND RIVER SYSTEMS
004047 (base 16) WIND RIVER SYSTEMS
1010 ATLANTIC AVENUE
ALAMEDA CA 94501
US

00-40-1C (hex) AST RESEARCH, INC.
00401C (base 16) AST RESEARCH, INC.
MS 2-78
IRVINE CA 92618
US

00-40-0F (hex) DATACOM TECHNOLOGIES
00400F (base 16) DATACOM TECHNOLOGIES
11001 31ST PLACE WEST
EVERETT WA 98204
US

00-40-06 (hex) SAMPO TECHNOLOGY CORPORATION
004006 (base 16) SAMPO TECHNOLOGY CORPORATION
26-2 TING-HU,
33334 TAIWAN 33334 TAIWAN R.O.C.

TW

00-40-62 (hex) E-SYSTEMS, INC./GARLAND DIV.
004062 (base 16) E-SYSTEMS, INC./GARLAND DIV.
P.O. BOX 660023
DALLAS TX 75266-0023
US

00-40-34 (hex) BUSTEK CORPORATION
004034 (base 16) BUSTEK CORPORATION
4151 BURTON DRIVE
SANTA CLARA CA 95054
US

00-80-4E (hex) APEX COMPUTER COMPANY
00804E (base
16) APEX COMPUTER COMPANY
4500 150TH AVENUE, NE
REDMOND WA 98052
US

00-80-55 (hex) FERMILAB
008055 (base 16) FERMILAB
P.O. BOX 500, MS-234
BATAVIA IL 60510
US

00-80-2A (hex) TEST SYSTEMS & SIMULATIONS INC
00802A (base 16) TEST SYSTEMS & SIMULATIONS INC
32429 INDUSTRIAL DRIVE
MADISON HEIGHTS MI 48071-1528
US

00-80-C0 (hex) PENRIL DATACOMM
0080C0 (base 16) PENRIL DATACOMM
1300 QUINCE ORCHARD BLVD.
GAITHERSBURG MD 20878
US

00-80-35 (hex) TECHNOLOGY WORKS, INC.
008035 (base 16) TECHNOLOGY WORKS, INC.
4030 BRAKER LANE #350
AUSTIN TX 78759
US

00-80-7E (hex) SOUTHERN PACIFIC LTD.
00807E (base 16) SOUTHERN PACIFIC LTD.
SANWA BLDG., 2-16-20

JAPAN JAPAN 220
JP

00-80-EF (hex) RATIONAL
0080EF (base 16) RATIONAL
3320 SCOTT BOULEVARD
SANTA CLARA CA 95054
US

00-80-F0 (hex) Panasonic Communications Co., Ltd.
0080F0 (base 16) Panasonic Communications
Co., Ltd.
4-1-62 Minoshima Hakata Fukuoka
812-8531
JP

00-80-51 (hex) FIBERMUX
008051 (base 16) FIBERMUX
9310 TOPANGA CANYON BLVD.
CHATSWORTH CA 91311
US

00-80-93 (hex) XYRON CORPORATION
008093 (base 16) XYRON CORPORATION
7864 LILY COURT
CUPERTINO CA 95014
US

00-80-92 (hex) Silex Technology, Inc.
008092 (base 16) Silex Technology, Inc.
2-3-1 Hikaridai,
Kyoto 619-0237
JP

00-80-5A (hex) TULIP COMPUTERS INTERNAT'L B.V
00805A (base 16) TULIP COMPUTERS INTERNAT'L B.V
P.O. BOX 3333
THE
NL

00-80-C6 (hex) NATIONAL DATACOMM CORPORATION
0080C6 (base 16) NATIONAL DATACOMM CORPORATION
2F, 28, INDUSTRY EAST 9TH RD.
TAIWAN 30077 TAIWAN 30077 R.O.C.
TW

00-40-41 (hex) FUJIKURA LTD.
004041 (base 16) FUJIKURA LTD.

1-5-1, KIBA, KOTO-KU

JP

00-00-50 (hex) RADISYS CORPORATION
000050 (base 16) RADISYS CORPORATION
15025 S.W. KOLL
PARKWAY
BEAVERTON OR 97006-6056
US

00-80-2E (hex) CASTLE ROCK COMPUTING
00802E (base 16) CASTLE ROCK COMPUTING
20837 BOYCE LANE
SARATOGA CA 95070-4806
US

00-80-F2 (hex) RAYCOM SYSTEMS INC
0080F2 (base 16) RAYCOM SYSTEMS INC
16525 SHERMAN WAY #C-8
VAN NUYS CA 91406
US

00-80-BD (hex) THE FURUKAWA ELECTRIC CO., LTD
0080BD (base 16) THE FURUKAWA ELECTRIC CO., LTD
6-1, MARUNOUCHI 2-CHOME
100
JP

00-80-25 (hex) Telit Wireless Solutions GmbH
008025 (base 16) Telit Wireless Solutions GmbH
Mendelssohnstrasse15D
Hamburg 22761
DE

00-80-EA (hex) ADVA Optical Networking Ltd.
0080EA (base 16) ADVA Optical Networking Ltd.
ADVAntage House
York YO30 4RY
GB

00-80-0D (hex) VOSSWINKEL F.U.
00800D (base 16) VOSSWINKEL F.U.
AM JOSTENHOF 15

DE

00-80-D1 (hex) KIMTRON CORPORATION

0080D1 (base 16) KIMTRON CORPORATION
1709 JUNCTION COURT
SAN
JOSE CA 95112
US

00-80-40 (hex) JOHN FLUKE MANUFACTURING CO.
008040 (base 16) JOHN FLUKE MANUFACTURING CO.
P.O. BOX C9090-M/S 244F
EVERETT WA 98206
US

00-80-21 (hex) Alcatel Canada Inc.
008021 (base 16) Alcatel Canada Inc.
349 Terry Fox Drive
Kanata Ontario K2K 2V6
CA

00-80-E8 (hex) CUMULUS CORPORATIION
0080E8 (base 16) CUMULUS CORPORATIION
23500 MERCANTILE ROAD
CLEVELAND OH 44122
US

00-00-1E (hex) TELSIST INDUSTRIA ELECTRONICA
00001E (base 16) TELSIST INDUSTRIA ELECTRONICA
RUA VILHENA DE MORAES, 380

BR

00-80-04 (hex) ANTLOW COMMUNICATIONS, LTD.
008004 (base 16) ANTLOW COMMUNICATIONS, LTD.
4 COLTHROP WAY
ENGLAND
GB

00-80-D0 (hex) COMPUTER PERIPHERALS, INC.
0080D0 (base 16) COMPUTER PERIPHERALS, INC.
667 RANCHO CONEJO BLVD.
NEWBURY PARK CA 91320
US

00-80-24 (hex) KALPANA, INC.
008024 (base 16) KALPANA, INC.
1154 EAST ARQUES AVENUE
SUNNYVALE
CA 94086
US

00-80-00 (hex) MULTITECH SYSTEMS, INC.
008000 (base 16) MULTITECH SYSTEMS, INC.
2205 WOODALE DRIVE
MOUNDS VIEW MN 55112
US

00-80-69 (hex) COMPUTONE SYSTEMS
008069 (base 16) COMPUTONE SYSTEMS
1100 NORTHMEADOW PARKWAY
ROSWELL GA 30076
US

00-80-75 (hex) PARSYTEC GMBH
008075 (base 16) PARSYTEC GMBH
JUELICHER STR. 338
F.R.
DE

00-80-1D (hex) INTEGRATED INFERENCE MACHINES
00801D (base 16) INTEGRATED INFERENCE MACHINES
1468 EAST KATELLA
ANAHEIM CA 92805
US

00-80-ED (hex) IQ TECHNOLOGIES, INC.
0080ED (base 16) IQ TECHNOLOGIES, INC.
11811 NE FIRST STREET
BELLEVUE WA 98005
US

00-80-9A (hex) NOVUS NETWORKS LTD
00809A (base 16) NOVUS NETWORKS LTD
JOHN SCOTT HOUSE
ENGLAND
GB

00-80-42 (hex) Artesyn Embedded Technologies
008042 (base 16) Artesyn Embedded Technologies
2900 S. Diablo Way
Tempe AZ 85282
US

00-80-4A
(hex) PRO-LOG
00804A (base 16) PRO-LOG
12 UPPER RAGSDALE DRIVE
MONTEREY CA 93940

US

00-00-B5 (hex) DATABILITY SOFTWARE SYS. INC.
0000B5 (base 16) DATABILITY SOFTWARE SYS. INC.
ONE PALMER TERRACE
CARLSTADT NJ 07072
US

00-00-66 (hex) TALARIS SYSTEMS, INC.
000066 (base 16) TALARIS SYSTEMS, INC.
11339 SORRENTO VALLEY ROAD
SAN DIEGO CA 92121
US

00-00-49 (hex) APRICOT COMPUTERS, LTD
000049 (base 16) APRICOT COMPUTERS, LTD
90 VINCENT DRIVE
ENGLAND
GB

00-00-FA (hex) MICROSAGE COMPUTER SYSTEMS INC
0000FA (base 16) MICROSAGE COMPUTER SYSTEMS INC
680 SOUTH ROCK BLVD
RENO NE 89502
US

00-00-D4 (hex) PURE DATA LTD.
0000D4 (base 16) PURE DATA LTD.
200 WEST BEAVER CREEK ROAD
L4B 1B4
CA

00-00-19 (hex) APPLIED DYNAMICS INTERNATIONAL
000019 (base 16) APPLIED DYNAMICS INTERNATIONAL
3800 STONE SCHOOL ROAD
ANN ARBOR MI 48104-2499
US

00-00-4B
(hex) ICL DATA OY
00004B (base 16) ICL DATA OY
KUTOMOTIE 16-18

FI

00-00-E0 (hex) QUADRAM CORP.
0000E0 (base 16) QUADRAM CORP.
ONE QUAD WAY

NORCROSS GA 30093
US

00-00-4F (hex) LOGICRAFT, INC.
00004F (base 16) LOGICRAFT, INC.
22 COTTON ROAD
NASHUA NH 03063
US

00-00-15 (hex) DATAPOINT CORPORATION
000015 (base 16) DATAPOINT CORPORATION
9725 DATAPOINT DRIVE
SAN ANTONIO TX 78284
US

00-00-1C (hex) BELL TECHNOLOGIES
00001C (base 16) BELL TECHNOLOGIES
330 WARREN AVENUE
FREMONT CA 94539
US

00-00-34 (hex) NETWORK RESOURCES CORPORATION
000034 (base 16) NETWORK RESOURCES CORPORATION
61 EAST DAGGETT DRIVE
SAN JOSE CA 95134
US

00-00-22 (hex) VISUAL TECHNOLOGY INC.
000022 (base 16) VISUAL TECHNOLOGY INC.
1703 MIDDLESEX STREET
LOWELL MA 01851
US

00-00-AB (hex) LOGIC MODELING CORPORATION
0000AB (base 16) LOGIC MODELING CORPORATION
1520
MCCANDLESS DRIVE
MILPITAS CA 95035
US

00-00-27 (hex) JAPAN RADIO COMPANY
000027 (base 16) JAPAN RADIO COMPANY
LABORATORY

JP

00-00-E8 (hex) ACCTON TECHNOLOGY CORP.
0000E8 (base 16) ACCTON TECHNOLOGY CORP.

46750 FREMONT BLVD. #104
FREMONT CA 94538
US

00-00-2F (hex) TIMEPLEX INC.
00002F (base 16) TIMEPLEX INC.
530 CHESTNUT RIDGE ROAD
WOODCLIFF LAKE NJ 07675
US

00-00-E6 (hex) APTOR PRODUITS DE COMM INDUST
0000E6 (base 16) APTOR PRODUITS DE COMM INDUST
61, CHEMIN DU VIEUX-CHENE

FR

00-00-9A (hex) RC COMPUTER A/S
00009A (base 16) RC COMPUTER A/S
LAUTRUPBJERG 1

DK

00-00-E7 (hex) Star Gate Technologies
0000E7 (base 16) Star Gate Technologies
29300 Aurora Road
Solon OH 44139
US

00-00-3A (hex) CHYRON CORPORATION
00003A (base 16) CHYRON CORPORATION
265 SPAGNOLI ROAD
MELVILLE NY 11747
US

00-00-BE (hex) THE
NTI GROUP
0000BE (base 16) THE NTI GROUP
4701 PATRICK HENRY DRIVE
SANTA CLARA CA 95054
US

00-00-D9 (hex) NIPPON TELEGRAPH & TELEPHONE
0000D9 (base 16) NIPPON TELEGRAPH & TELEPHONE
CORPORATION (NTT)
TOKYO 100-8116
JP

00-00-18 (hex) WEBSTER COMPUTER CORPORATION

000018 (base 16) WEBSTER COMPUTER CORPORATION
16040 REDWOOD LODGE ROAD
LOS GATOS CA 95033-9260
US

00-00-D5 (hex) MICROGNOSIS INTERNATIONAL
0000D5 (base 16) MICROGNOSIS INTERNATIONAL
63 QUEEN VICTORIA STREET
UNITED KINGDOM
GB

00-80-AC (hex) IMLOGIX, DIVISION OF GENESYS
0080AC (base 16) IMLOGIX, DIVISION OF GENESYS
1900 SUMMIT TOWER BLVD.STE#770
ORLANDO FL 32810
US

00-00-80 (hex) CRAY COMMUNICATIONS A/S
000080 (base 16) CRAY COMMUNICATIONS A/S
SMEDEHOLM 12-14

DK

08-00-89 (hex) Kinetics
080089 (base 16) Kinetics

Walnut Creek CA
US

08-00-86 (hex) KONICA MINOLTA HOLDINGS,
INC.
080086 (base 16) KONICA MINOLTA HOLDINGS, INC.
1-6-1, Marunouchi,
Tokyo 100-0005
JP

00-00-69 (hex) CONCORD COMMUNICATIONS INC
000069 (base 16) CONCORD COMMUNICATIONS INC
753 FOREST STREET
MARLBOROUGH MA 01752
US

00-00-73 (hex) SIECOR CORPORATION
000073 (base 16) SIECOR CORPORATION
P.O. BOX 13625
RESEARCH TRIANGLE PK NC 27709
US

00-00-B9 (hex) MCDONNELL DOUGLAS COMPUTER SYS
0000B9 (base 16) MCDONNELL DOUGLAS COMPUTER SYS
DIV MCDONNELL DOUGLAS INF SYS
ENGLAND
GB

00-00-BF (hex) SYMMETRIC COMPUTER SYSTEMS
0000BF (base 16) SYMMETRIC COMPUTER SYSTEMS
1620 OAKLAND ROAD SUITE D-200
SAN JOSE CA 95131
US

00-00-2D (hex) CHROMATICS INC
00002D (base 16) CHROMATICS INC
2558 MOUNTAIN INDUSTRIAL BLVD
TUCKER GA 30084
US

00-00-4D (hex) DCI CORPORATION
00004D (base 16) DCI CORPORATION
64J PRINCETON-HIGHTSTOWN RD
PRINCETON JUNCTION NJ 08550
US

00-00-23
(hex) ABB INDUSTRIAL SYSTEMS AB
000023 (base 16) ABB INDUSTRIAL SYSTEMS AB
DEPT. SEISY/LKSB

SE

00-00-59 (hex) Hellige GMBH
000059 (base 16) Hellige GMBH
Heinrich-von-Stephan-Str. 4
West Gernany
DE

00-00-6F (hex) Madge Ltd.
00006F (base 16) Madge Ltd.
Madge House
Maindenhead Berkshire SL6 2HP
GB

00-00-78 (hex) LABTAM LIMITED
000078 (base 16) LABTAM LIMITED
43 MALCOLM ROAD P.O. BOX297

AU

00-00-5A (hex) SysKonnect GmbH
00005A (base 16) SysKonnect GmbH
SIEMENSSTRAßE 23

DE

00-00-71 (hex) ADRA SYSTEMS INC.
000071 (base 16) ADRA SYSTEMS INC.
59 TECHNOLOGY DRIVE
LOWELL MA 01851
US

08-00-61 (hex) JAROGATE LTD.
080061 (base 16) JAROGATE LTD.
197-213 LYHAM ROAD
UNITED KINGDOM
GB

08-00-5F (hex) SABER TECHNOLOGY CORP.
08005F (base 16) SABER TECHNOLOGY CORP.
2381 BERING DRIVE
SAN JOSE CA 95131-1125
US

08-00-58
(hex) SYSTEMS CONCEPTS
080058 (base 16) SYSTEMS CONCEPTS
520 THIRD STREET
SAN FRANCISCO CA 94107
US

08-00-83 (hex) Seiko Instruments Inc.
080083 (base 16) Seiko Instruments Inc.
8, Nakase 1-chome Mihama-ku
Chiba-shi Chiba 261-8507
JP

08-00-2A (hex) MOSAIC TECHNOLOGIES INC.
08002A (base 16) MOSAIC TECHNOLOGIES INC.
47 MANNING ROAD
BILLERICA MA 01821-3970
US

08-00-24 (hex) 10NET COMMUNICATIONS/DCA
080024 (base 16) 10NET COMMUNICATIONS/DCA
7777 WASHINGTON VILLAGE DR.
DAYTON OH 45459-3957

US

08-00-22 (hex) NBI INC.
080022 (base 16) NBI INC.
3450 MITCHELL LANE
BOULDER CO 80301
US

08-00-20 (hex) Oracle Corporation
080020 (base 16) Oracle Corporation
17 Network Circle
Menlo Park CA 95025
US

02-1C-7C (hex) PERQ SYSTEMS CORPORATION
021C7C (base 16) PERQ SYSTEMS CORPORATION
2600 LIBERTY AVENUE
PITTSBURGH PA 15230
US

00-00-05
(hex) XEROX CORPORATION
000005 (base 16) XEROX CORPORATION
M/S 105-50C
WEBSTER NY 14580
US

00-DD-08 (hex) UNGERMANN-BASS INC.
00DD08 (base 16) UNGERMANN-BASS INC.
3900 FREEDOM CIRCLE
SANTA CLARA CA 95054
US

AA-00-00 (hex) DIGITAL EQUIPMENT CORPORATION
AA0000 (base 16) DIGITAL EQUIPMENT CORPORATION
LKG 1-2/A19
LITTLETON MA 01460-1289
US

AA-00-01 (hex) DIGITAL EQUIPMENT CORPORATION
AA0001 (base 16) DIGITAL EQUIPMENT CORPORATION
LKG 1-2/A19
LITTLETON MA 01460-1289
US

AA-00-02 (hex) DIGITAL EQUIPMENT CORPORATION
AA0002 (base 16) DIGITAL EQUIPMENT CORPORATION
LKG 1-2/A19

LITTLETON MA 01460-1289
US

08-00-14 (hex) EXCELAN
080014 (base 16) EXCELAN
1599 FLICKINGER AVENUE
SAN JOSE CA 95131
US

08-00-65 (hex) GENRAD INC.
080065 (base 16) GENRAD INC.
300 BAKER AVENUE
CONCORD MA 01742
US

08-00-1F (hex) SHARP CORPORATION
08001F
(base 16) SHARP CORPORATION
ENGINEERING DEPARTMENT 6
NARA 639-11
JP

02-07-01 (hex) RACAL-DATACOM
020701 (base 16) RACAL-DATACOM
LAN INTERNETWORKING DIVISION
BOXBOROUGH MA 01719
US

08-00-06 (hex) SIEMENS AG
080006 (base 16) SIEMENS AG
Siemens IT Solutions and Services, SIS GO QM O
POB 2353 Fuerth 90713
DE

08-00-49 (hex) UNIVATION
080049 (base 16) UNIVATION
1037 NORTH FAIR OAKS AVE.
SUNNYVALE CA 94089
US

00-00-07 (hex) XEROX CORPORATION
000007 (base 16) XEROX CORPORATION
M/S 105-50C
WEBSTER NY 14580
US

00-80-1F (hex) KRUPP ATLAS ELECTRONIK GMBH
00801F (base 16) KRUPP ATLAS ELECTRONIK GMBH

P.O. BOX 448545

DE

02-AA-3C (hex) OLIVETTI TELECOMM SPA (OLTECO)
02AA3C (base 16) OLIVETTI TELECOMM SPA (OLTECO)
20300 STEVENS CREEK BLVD.
CUPERTINO CA 95014
US

04-E0-C4 (hex) TRIUMPH-ADLER AG
04E0C4 (base 16) TRIUMPH-ADLER AG
HUNDINGSTRAßE
11B

DE

08-00-13 (hex) Exxon
080013 (base 16) Exxon

US

64-57-25 (hex) Hui Zhou Gaoshengda Technology Co.,LTD
645725 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.2,Jin-da Road,Huinan Industrial Park
Hui Zhou Guangdong 516025
CN

00-80-E9 (hex) Madge Ltd.
0080E9 (base 16) Madge Ltd.
Madge House
Maindenhead Berkshire SL6 2HP
GB

00-40-D6 (hex) LOCAMATION B.V.
0040D6 (base 16) LOCAMATION B.V.
POSTBOX 360
HOLLAND
NL

08-00-4B (hex) Planning Research Corp.
08004B (base 16) Planning Research Corp.
1508 Kennedy Drive
Bellvue NE 68005
US

04-25-E8 (hex) Texas Instruments

0425E8 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

28-3C-90 (hex) Texas Instruments
283C90 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

E4-FA-5B (hex) Texas Instruments
E4FA5B (base 16) Texas Instruments
12500
TI Blvd
Dallas TX 75243
US

84-87-FF (hex) Shenzhen Skyworth Digital Technology CO., Ltd
8487FF (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

08-00-59 (hex) A/S MYCRON
080059 (base 16) A/S MYCRON
PO BOX 6199

NO

08-00-08 (hex) BOLT BERANEK AND NEWMAN INC.
080008 (base 16) BOLT BERANEK AND NEWMAN INC.
70 FAWCETT STREET
CAMBRIDGE MA 02138
US

DC-10-57 (hex) Apple, Inc.
DC1057 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

30-D8-75 (hex) Apple, Inc.
30D875 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

68-3E-C0 (hex) Apple, Inc.
683EC0 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-00-09 (hex) XEROX CORPORATION
000009 (base 16) XEROX CORPORATION
M/S 105-50C
WEBSTER NY 14580
US

44-C3-B6 (hex) HUAWEI
TECHNOLOGIES CO.,LTD
44C3B6 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E8-F7-2F (hex) HUAWEI TECHNOLOGIES CO.,LTD
E8F72F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

50-A1-F3 (hex) Huawei Device Co., Ltd.
50A1F3 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

48-5F-DF (hex) zte corporation
485FDF (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

F0-F8-4A (hex) BUFFALO.INC
F0F84A (base 16) BUFFALO.INC
AKAMONDORI Bld.,30-20,Ohsu 3-chome,Naka-ku
Nagoya Aichi Pref. 460-8315
JP

6C-15-44 (hex) Microsoft Corporation
6C1544 (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

3C-55-DB
(hex) Shenzhen Skyworth Digital Technology CO., Ltd
3C55DB (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

EC-6E-79 (hex) InHand Networks, INC.
EC6E79 (base 16) InHand Networks, INC.
43671 Trade Center Place Suite 100
Dulles VA 20166
US

C8-0C-53 (hex) China Mobile Group Device Co.,Ltd.
C80C53 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

78-5F-28 (hex) EM Microelectronic
785F28 (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

A4-00-4E (hex) Cisco Systems, Inc
A4004E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

38-EF-E3 (hex) INGENICO TERMINALS SAS
38EFE3 (base 16) INGENICO TERMINALS SAS
13-17 Rue Pagès
Suresnes 92150
FR

2C-9E-E0 (hex) Cavli Inc.
2C9EE0
(base 16) Cavli Inc.
99 South Almaden Blvd
San Jose CA 95113
US

64-C1-7E (hex) cheilelectric
64C17E (base 16) cheilelectric
555, Eulsukdo-daero, Saha-gu, Busan, Republic of Korea

pusan 49437
KR

FC-8D-13 (hex) FUJIAN STAR-NET COMMUNICATION CO.,LTD
FC8D13 (base 16) FUJIAN STAR-NET COMMUNICATION CO.,LTD
19-22# Building, Star-net Science Plaza, Juyuanzhou,
FUZHOU FUJIAN 350002
CN

24-04-62 (hex) Siemens Energy Global GmbH & Co.KG - GT PRM
240462 (base 16) Siemens Energy Global GmbH & Co.KG - GT PRM
Paulsternstrasse 26
Berlin Berlin 13629
DE

A4-37-3E (hex) Huawei Device Co., Ltd.
A4373E (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C4-4F-5F (hex) Huawei Device Co., Ltd.
C44F5F (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

9C-B1-DC (hex) Earda
Technologies co Ltd
9CB1DC (base 16) Earda Technologies co Ltd
Block A,Lianfeng Creative Park, #2 Jisheng Rd., Nansha District
Guangzhou Guangdong 511455
CN

B0-2E-E0 (hex) Huawei Device Co., Ltd.
B02EE0 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

38-88-71 (hex) ASKEY COMPUTER CORP
388871 (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585
TW

BC-F8-7E (hex) Arcadyan Corporation
BCF87E (base 16) Arcadyan Corporation

No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

28-4E-E9 (hex) mercury corperation
284EE9 (base 16) mercury corperation
90,gajaeul-ro,seo-gu,incheon
incheon 22830
KR

58-E3-59 (hex) Interroll Software & Electronics GmbH
58E359 (base 16) Interroll Software & Electronics GmbH
Im Südpark 183
Linz 4030
AT

8C-32-23 (hex) JWIPC Technology
Co.,Ltd.
8C3223 (base 16) JWIPC Technology Co.,Ltd.
13/F, Haisong Building B, Tairan 9th Rd, Futian District
Shenzhen Guang Dong 5128042
CN

00-C8-96 (hex) CIG SHANGHAI CO LTD
00C896 (base 16) CIG SHANGHAI CO LTD
5th Floor, Building 8 No 2388 Chenhang Road
SHANGHAI 201114
CN

00-1B-09 (hex) MATRIX COMSEC PRIVATE LIMITED
001B09 (base 16) MATRIX COMSEC PRIVATE LIMITED
394, GIDC, Makarpura,
Vadodara Gujarat 390010
IN

F4-1A-79 (hex) IEEE Registration Authority
F41A79 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

28-00-AF (hex) Dell Inc.
2800AF (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

00-04-13 (hex) snom technology GmbH

000413 (base 16) snom technology GmbH
Aroser Allee 66
Berlin 13407
DE

5C-A4-7D (hex) Aruba, a Hewlett Packard Enterprise Company
5CA47D (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

74-B0-59 (hex) Motorola Mobility LLC, a Lenovo Company
74B059 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

E4-84-29 (hex) New H3C Technologies Co., Ltd
E48429 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

8C-07-34 (hex) Private
8C0734 (base 16) Private

98-7A-9B (hex) TCL MOKA International Limited
987A9B (base 16) TCL MOKA International Limited
7/F, Building 22E 22 Science Park East Avenue
Hong Kong 999077
HK

78-16-99 (hex) HUAWEI TECHNOLOGIES CO.,LTD
781699 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E4-0A-16 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E40A16 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

40-9C-A7 (hex) CHINA DRAGON TECHNOLOGY LIMITED
409CA7 (base 16) CHINA DRAGON TECHNOLOGY LIMITED

B4 Building,No.3 First industrial Zone,Nanpu Road,Lao Community,Xinqian Street,Baoan District,Shenzhen,City
ShenZhen 518100
CN

D0-AD-08 (hex) HP Inc.
D0AD08 (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

CC-40-B2 (hex) ECI Telecom Ltd.
CC40B2 (base 16) ECI Telecom Ltd.
30 Hasivim St.
Petah Tikva 49133
IL

A4-E2-87 (hex) Xiaomi Communications Co Ltd
A4E287 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

80-95-3A (hex) Apple, Inc.
80953A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

68-45-CC (hex) Apple, Inc.
6845CC (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

60-04-5C (hex) NXP Semiconductor
(Tianjin) LTD.
60045C (base 16) NXP Semiconductor (Tianjin) LTD.
No.15 Xinghua Avenue, Xiqing Economic Development Area
Tianjin 300385
CN

84-9C-02 (hex) Druid Software
849C02 (base 16) Druid Software
Block D, Civic Centre
Bray Wicklow A98 E1W9
IE

D0-C9-01 (hex) GLA ELECTRONICS PVT LTD

D0C901 (base 16) GLA ELECTRONICS PVT LTD
B 14/2 JHILMIL INDUSTRIAL AREA DELHI
DELHI DELHI 110095
IN

1C-4C-27 (hex) World WLAN Application Alliance
1C4C27 (base 16) World WLAN Application Alliance
5th Floor, Block B, Shenzhen-Hong Kong International Science and Technology Park, No. 14 Taohua Road, Futian District, Shenzhen
shenzhen guangdong province 518017
CN

68-AE-04 (hex) Shenzhen SuperElectron Technology Co.,Ltd.
68AE04 (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen Guangdong 518000
CN

AC-97-38
(hex) Apple, Inc.
AC9738 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

CC-60-23 (hex) Apple, Inc.
CC6023 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

0C-DB-EA (hex) Apple, Inc.
0CDBEA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

08-C2-24 (hex) Amazon Technologies Inc.
08C224 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

68-93-2E (hex) Habana Labs LTD.
68932E (base 16) Habana Labs LTD.
9 Granite st.
Caesarea Select ... 3079821
IL

2C-C4-4F (hex) IEEE Registration Authority
2CC44F (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

98-12-23 (hex) Tarmoc Network LTD
981223 (base 16) Tarmoc Network LTD
203-2, building 1, Anxi business park, No. 35-1 Xiangyin Road, Nanlian community, Longgang street, Longgang District,
Shenzhen GuangDong
518000
CN

40-99-E3 (hex) Guangzhou Mudi Information Technology Co., Ltd
4099E3 (base 16) Guangzhou Mudi Information Technology Co., Ltd
Room 403, 404, No. 8, Yongtai Taixing Road, Yongping Street, Baiyun District, Guangzhou city
Guangzhou City Guangdong Province 510000
CN

7C-88-99 (hex) FN-LINK TECHNOLOGY Ltd.
7C8899 (base 16) FN-LINK TECHNOLOGY Ltd.
No.8, Litong Road, Liuyang Economic & Technical Development Zone, Changsha, Hunan,China
Changsha Hunan 410329
CN

04-68-74 (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
046874 (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

FC-70-2E (hex) Sichuan AI-Link Technology Co., Ltd.
FC702E (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou, Industrial Park
Mianyang Sichuan 622650
CN

D4-76-A0 (hex) Fortinet, Inc.
D476A0
(base 16) Fortinet, Inc.
899 Kifer Road
Sunnyvale 94086
US

94-FF-3C (hex) Fortinet, Inc.
94FF3C (base 16) Fortinet, Inc.

899 Kifer Road
Sunnyvale 94086
US

B4-F9-5D (hex) Juniper Networks
B4F95D (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

6C-45-C4 (hex) Cloudflare, Inc.
6C45C4 (base 16) Cloudflare, Inc.
101 Townsend Street
San Francisco CA 94107
US

B0-47-E9 (hex) Intel Corporate
B047E9 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

6C-2F-80 (hex) Intel Corporate
6C2F80 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

D0-65-78 (hex) Intel Corporate
D06578 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

74-90-BC (hex) Arcadyan Corporation
7490BC (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu
City Hsinchu 30071
TW

98-BD-80 (hex) Intel Corporate
98BD80 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

A0-F5-09 (hex) IEI Integration Corp.

A0F509 (base 16) IEI Integration Corp.
4F., No. 29, Zhongxing Rd., Xizhi Dist.,
New Taipei City 221
TW

94-70-6C (hex) Quectel Wireless Solutions Co.,Ltd.
94706C (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

1C-3B-01 (hex) Shanghai Xiaodu Technology Limited
1C3B01 (base 16) Shanghai Xiaodu Technology Limited
4th Floor Building No.1 , No.701 Naxian Road Pilot Free Trade Zone Shanghai China
Shanghai 200000
CN

18-7F-88 (hex) Ring LLC
187F88 (base 16) Ring LLC
1523 26th St
Santa Monica CA 90404
US

00-0D-97 (hex) Hitachi Energy USA Inc.
000D97 (base 16) Hitachi Energy USA Inc.
901 Main Campus Drive
Raleigh
NC 27606
US

B8-7E-40 (hex) Huawei Device Co., Ltd.
B87E40 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

1C-2F-A2 (hex) Guangzhou Shiyuan Electronic Technology Company Limited
1C2FA2 (base 16) Guangzhou Shiyuan Electronic Technology Company Limited
No.6, 4th Yunpu Road, Yunpu industry District
Guangzhou Guangdong 510530
CN

A4-3F-68 (hex) Arista Network, Inc.
A43F68 (base 16) Arista Network, Inc.
5453 Great America Parkway
Santa Clara CA 95054
US

BC-9D-4E (hex) Shenzhen Skyworth Digital Technology CO., Ltd
BC9D4E (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

3C-B8-D6 (hex) Bluebank Communication Technology Co.,Ltd.
3CB8D6 (base 16) Bluebank Communication Technology Co.,Ltd.
No.16 Cuiping Road, Huixing Sub-district, Yubei District, Chongqing
Chongqing
401120
CN

9C-9E-03 (hex) awayfrom
9C9E03 (base 16) awayfrom
A-2723 Ho, Sambo Techon Tower,122,jomaru-ro 385 Beon-gil
bucheon-si Gyeonnggi-do 14556
KR

64-D8-1B (hex) Vestel Elektronik San ve Tic. A.S.
64D81B (base 16) Vestel Elektronik San ve Tic. A.S.
Organize san
Manisa Turket 45030
TR

30-DC-E7 (hex) zte corporation
30DCE7 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

D0-12-55 (hex) Hui Zhou Gaoshengda Technology Co.,LTD
D01255 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.2,Jin-da Road,Huinan Industrial Park
Hui Zhou Guangdong 516025
CN

3C-2D-9E (hex) Vantiva - Connected Home
3C2D9E (base 16) Vantiva - Connected Home
4855 Peachtree Industrial Blvd, #200
Norcross GA 30092
US

08-C7-F5 (hex) Vantiva Connected Home - Technologies Telco
08C7F5 (base 16) Vantiva Connected Home
- Technologies Telco
4855 Peachtree Industrial Blvd, Suite 200
Norcross GA 30902

US

C0-16-93 (hex) Xiaomi Communications Co Ltd
C01693 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

FC-5B-8C (hex) Xiaomi Communications Co Ltd
FC5B8C (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

28-4E-44 (hex) HUAWEI TECHNOLOGIES CO.,LTD
284E44 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

80-2E-C3 (hex) HUAWEI TECHNOLOGIES CO.,LTD
802EC3 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D4-D6-59 (hex) Meta Platforms Technologies, LLC
D4D659 (base 16) Meta Platforms Technologies, LLC
1601 Willow
Rd
Menlo Park CA 94025
US

80-05-3A (hex) CHeKT Inc.
80053A (base 16) CHeKT Inc.
5870 Greenwood Rd.
Shreveport LA 71119
US

D8-B3-2F (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
D8B32F (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

EC-90-C1 (hex) Samsung Electronics Co.,Ltd
EC90C1 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong

Gumi Gyeongbuk 730-350
KR

54-10-4F (hex) Samsung Electronics Co.,Ltd
54104F (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B0-54-76 (hex) Samsung Electronics Co.,Ltd
B05476 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

74-CA-60 (hex) Sonos, Inc.
74CA60 (base 16) Sonos, Inc.
614 Chapala Street
Santa Barbara CA
93101
US

8C-26-AA (hex) Apple, Inc.
8C26AA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

30-D9-59 (hex) Shanghai Longcheer Technology Co., Ltd.
30D959 (base 16) Shanghai Longcheer Technology Co., Ltd.
Bldg 1,No.401,Caobao RD,Xuhui Dist
Shanghai 200233
CN

00-78-39 (hex) Nokia
007839 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

10-8A-7B (hex) Nokia
108A7B (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

A0-52-AB (hex) AVM ELECTRONICS PTE LTD
A052AB (base 16) AVM ELECTRONICS PTE LTD

362, UPPER PAYA LEBAR ROAD, #05-07 Da Jin Factory Building
Singapore Singapore 534963
SG

90-62-3F (hex) Apple, Inc.
90623F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A8-BB-56 (hex) Apple, Inc.
A8BB56 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

28-2D-7F (hex) Apple, Inc.
282D7F
(base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-86-6F (hex) EM Microelectronic
F0866F (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

5C-B2-60 (hex) EM Microelectronic
5CB260 (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

5C-07-A4 (hex) Ciena Corporation
5C07A4 (base 16) Ciena Corporation
900 International Drive
Linthicum MD 21090-2200
US

6C-6F-18 (hex) Stereotaxis, Inc.
6C6F18 (base 16) Stereotaxis, Inc.
710 N. Tucker Blvd, Suite 110
St. Louis MO 63101
US

88-01-0C (hex) Sichuan Tianyi Comheart Telecom Co.,LTD

88010C (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

50-5B-1D (hex) Shenzhen C-Data Technology Co., Ltd.
505B1D (base 16) Shenzhen C-Data Technology Co., Ltd.
#201,
Building A4, Nanshan Zhiyuan, No.1001, Xueyuan Avenue, Changyuan Community,Taoyuan,Nanshan
Shenzhen Guangdong 518055
CN

BC-54-FC (hex) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
BC54FC (base 16) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
6th Floor, South Section, Building 23, Keyuan West, NO.1 Kezhi West Road, Science and Technology Community, Yuehai Street, Nanshan District
Shenzhen Guangdong 518057
CN

90-76-9F (hex) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
90769F (base 16) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
6th Floor, South Section, Building 23, Keyuan West, NO.1 Kezhi West Road, Science and Technology Community, Yuehai Street, Nanshan District
Shenzhen Guangdong 518057
CN

4C-77-66 (hex) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
4C7766 (base 16) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
6th Floor, South Section, Building 23, Keyuan West, NO.1
Kezhi West Road, Science and Technology Community, Yuehai Street, Nanshan District
Shenzhen Guangdong 518057
CN

00-5C-C2 (hex) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
005CC2 (base 16) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
6th Floor, South Section, Building 23, Keyuan West, NO.1 Kezhi West Road, Science and Technology Community, Yuehai Street, Nanshan District
Shenzhen Guangdong 518057
CN

58-1D-C9 (hex) MSE CO.,LTD.
581DC9 (base 16) MSE CO.,LTD.
3-1-6, Kyutaromachi, Chuo-ku,
OSAKA OSAKA 5410056
JP

CC-7B-5C (hex) Espressif Inc.
CC7B5C (base 16) Espressif Inc.

Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

FC-E8-C0 (hex) Espressif Inc.
FCE8C0 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

00-4B-F3 (hex) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
004BF3 (base
16) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
6th Floor, South Section, Building 23, Keyuan West, NO.1 Kezhi West Road, Science and Technology Community, Yuehai Street, Nanshan District
Shenzhen Guangdong 518057
CN

88-54-8E (hex) vivo Mobile Communication Co., Ltd.
88548E (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

BC-74-4B (hex) Nintendo Co.,Ltd
BC744B (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

D8-7A-3B (hex) Silicon Laboratories
D87A3B (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

3C-2E-F5 (hex) Silicon Laboratories
3C2EF5 (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

34-10-F4 (hex) Silicon Laboratories
3410F4 (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

A4-9E-69
(hex) Silicon Laboratories
A49E69 (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

F0-82-C0 (hex) Silicon Laboratories
F082C0 (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

0C-EF-F6 (hex) Silicon Laboratories
0CEFF6 (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

EC-F6-4C (hex) Silicon Laboratories
ECF64C (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

90-AB-96 (hex) Silicon Laboratories
90AB96 (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

60-EF-AB (hex) Silicon Laboratories
60EFAB (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

48-8E-B7 (hex) Zebra Technologies Inc.
488EB7 (base 16) Zebra Technologies Inc.
ONE ZEBRA PLAZA
HOLTSVILLE NY 11742
US

0C-82-D5 (hex) Maxio Technology
Hangzhou Co., Ltd.
0C82D5 (base 16) Maxio Technology Hangzhou Co., Ltd.
Block C, Juguang Center, Qianmo Road, Binjiang District, Hangzhou City, Zhejiang Province
Hangzhou 310000

CN

04-01-BB (hex) TECNO MOBILE LIMITED
0401BB (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

AC-72-DD (hex) GD Midea Air-Conditioning Equipment Co.,Ltd.
AC72DD (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
Midea Global Innovation Center,Beijiao Town,Shunde
Foshan Guangdong 528311
CN

64-BB-1E (hex) Earda Technologies co Ltd
64BB1E (base 16) Earda Technologies co Ltd
Block A,Lianfeng Creative Park, #2 Jisheng Rd., Nansha District
Guangzhou Guangdong 511455
CN

FC-D2-90 (hex) SKY UK LIMITED
FCD290 (base 16) SKY UK LIMITED
Grant Way
Isleworth Middlesex TW7 5QD
GB

78-30-5D
(hex) zte corporation
78305D (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

94-0B-83 (hex) zte corporation
940B83 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

7C-D3-E5 (hex) HUAWEI TECHNOLOGIES CO.,LTD
7CD3E5 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

64-82-14 (hex) FN-LINK TECHNOLOGY Ltd.
648214 (base 16) FN-LINK TECHNOLOGY Ltd.

No.8, Litong Road, Liuyang Economic & Technical Development Zone, Changsha, Hunan,China
Changsha Hunan 410329
CN

E0-9C-E5 (hex) Shanghai Tricheer Technology Co.,Ltd.
E09CE5 (base 16) Shanghai Tricheer Technology Co.,Ltd.
Rm 907, Building 1, Lane 399, Shengxia Road,Zhangjiang Hi-Tech Park,Pudong District,Shanghai
Shanghai Shanghai 201203
CN

E4-74-50
(hex) Shenzhen Grandsun Electronic Co.,Ltd.
E47450 (base 16) Shenzhen Grandsun Electronic Co.,Ltd.
Gaoqiao Industrial Zone,Baishitang Village,
Shenzhen Guangdong 518116
CN

70-C9-12 (hex) Sichuan AI-Link Technology Co., Ltd.
70C912 (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou, Industrial Park
Mianyang Sichuan 622650
CN

B4-A3-BD (hex) Extreme Networks Headquarters
B4A3BD (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

B8-87-6E (hex) Intertech Services AG
B8876E (base 16) Intertech Services AG
Werftestrasse 4,
Luzern 6005
CH

3C-0B-4F (hex) Intertech Services AG
3C0B4F (base 16) Intertech Services AG
Werftestrasse 4,
Luzern 6005
CH

EC-19-2E (hex) Cisco Systems, Inc
EC192E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

84-E9-C1 (hex) Realme Chongqing Mobile Telecommunications

Corp.,Ltd.
84E9C1 (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

6C-62-FE (hex) Juniper Networks
6C62FE (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

9C-9E-D5 (hex) Xiaomi Communications Co Ltd
9C9ED5 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

74-38-22 (hex) Xiaomi Communications Co Ltd
743822 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

B8-3B-AB (hex) Arcadyan Corporation
B83BAB (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

40-A6-3D (hex) SignalFire Telemetry
40A63D (base 16) SignalFire Telemetry
140 Locke Dr. Suite B
Marlborough
MA 01752
US

60-54-64 (hex) Eyedro Green Solutions Inc.
605464 (base 16) Eyedro Green Solutions Inc.
606 Colby Dr, Unit E
Waterloo Ontario N2V1A2
CA

CC-E5-36 (hex) ittim
CCE536 (base 16) ittim
1202, No.6, Zhongguancun South Street, Haidian District,
beijing 100080
CN

C8-A2-3B (hex) Shenzhen Sundray Technologies Company Limited
C8A23B (base 16) Shenzhen Sundray Technologies Company Limited
5th Floor, Block A4, Nanshan ipark,NO.1001 Xue Yuan Road, Nanshan District, Shenzhen 518055, P.R. China
Shenzhen Guangdong 518057
CN

2C-67-BE (hex) DWnet Technologies(Suzhou) Corporation
2C67BE (base 16) DWnet Technologies(Suzhou) Corporation
No.8,Tangzhuang Road, Suzhou Industrial Park, Jiangsu, China
Suzhou 21500
CN

BC-00-04 (hex) Fiberhome Telecommunication Technologies Co.,LTD
BC0004 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei
430074
CN

98-A8-29 (hex) AltoBeam Inc.
98A829 (base 16) AltoBeam Inc.
B808, Tsinghua Tongfang Hi-Tech Plaza, Haidian
Beijing Beijing 100083
CN

B4-62-2E (hex) Zhong Ge Smart Technology Co., Ltd.
B4622E (base 16) Zhong Ge Smart Technology Co., Ltd.
Zhong Ge Smart, 5th floor building G
Shanghai 201199
CN

C4-6E-33 (hex) Zhong Ge Smart Technology Co., Ltd.
C46E33 (base 16) Zhong Ge Smart Technology Co., Ltd.
Zhong Ge Smart, 5th floor building G
Shanghai 201199
CN

F8-9D-9D (hex) Shenzhen MinewSemi Co.,LTD.
F89D9D (base 16) Shenzhen MinewSemi Co.,LTD.
3Floor, I Building, Gangzhilong Tech Park, No.6, Qinglong Road, Longhua District
Shenzhen 518109
CN

F8-96-FE (hex) LG Innotek
F896FE (base 16) LG Innotek
26, HANAMSANDAN 5BEON-RO
Gwangju Gwangsan-gu 506-731

KR

A4-C4-0D (hex) WAC Lighting
A4C40D (base 16) WAC Lighting
44 Harbor Park Dr
Port Washington NY
11050
US

58-30-6E (hex) Nokia
58306E (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

A8-CA-77 (hex) Amazon Technologies Inc.
A8CA77 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

24-1E-2B (hex) Zhejiang Cainiao Supply Chain Management Co., Ltd
241E2B (base 16) Zhejiang Cainiao Supply Chain Management Co., Ltd
Block B1, XIXI center, No.588 West Wenyi Road, Xihu District
Hangzhou Zhejiang 310000
CN

C4-A4-51 (hex) TECNO MOBILE LIMITED
C4A451 (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

14-2B-2F (hex) Espressif Inc.
142B2F (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

F0-61-F3 (hex) Comcast Cable Corporation
F061F3 (base 16) Comcast Cable Corporation
1800
Arch Street
Philadelphia PA 19103
US

D4-8D-26 (hex) LG Innotek

D48D26 (base 16) LG Innotek
26, HANAMSANDAN 5BEON-RO
Gwangju Gwangsan-gu 506-731
KR

D0-C9-07 (hex) Private
D0C907 (base 16) Private

F4-F2-8A (hex) HUAWEI TECHNOLOGIES CO.,LTD
F4F28A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

94-E3-00 (hex) HUAWEI TECHNOLOGIES CO.,LTD
94E300 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

0C-E5-B5 (hex) HUAWEI TECHNOLOGIES CO.,LTD
0CE5B5 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

FC-F7-38 (hex) HUAWEI TECHNOLOGIES CO.,LTD
FCF738 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

8C-86-2A
(hex) HUAWEI TECHNOLOGIES CO.,LTD
8C862A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C0-33-79 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C03379 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

AC-7F-8D (hex) Extreme Networks Headquarters
AC7F8D (base 16) Extreme Networks Headquarters
2121 RDU Center Drive

Morrisville NC 27560
US

04-2D-AD (hex) Areus GmbH
042DAD (base 16) Areus GmbH
Einsteinstrasse 13
Herrenberg Baden-Wuerttemberg 71083
DE

24-AC-AC (hex) Polar Electro Oy
24ACAC (base 16) Polar Electro Oy
Professorintie 5
Kempele 90440
FI

50-20-6B (hex) Copeland - Transportation Solutions ApS
50206B (base 16) Copeland - Transportation Solutions ApS
Boeletvej 1
Ry 8680
DK

78-1C-1E (hex) Chongqing
Yipingfang Technology Co., Ltd.
781C1E (base 16) Chongqing Yipingfang Technology Co., Ltd.
No. 1-10, Tieshan Road, Biquan Street, Bishan District, Chongqing
ChongQing 402760
CN

78-A1-3E (hex) New H3C Technologies Co., Ltd
78A13E (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

48-CA-43 (hex) Espressif Inc.
48CA43 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

44-90-46 (hex) Honor Device Co., Ltd.
449046 (base 16) Honor Device Co., Ltd.
Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District
Shenzhen Guangdong 518040
CN

94-F6-F2 (hex) Honor Device Co., Ltd.

94F6F2 (base 16) Honor Device Co., Ltd.
Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District
Shenzhen
Guangdong 518040
CN

B0-C3-8E (hex) Huawei Device Co., Ltd.
B0C38E (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

14-3B-51 (hex) Huawei Device Co., Ltd.
143B51 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

D0-73-80 (hex) Huawei Device Co., Ltd.
D07380 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

10-47-E7 (hex) Shenzhen YOUHUA Technology Co., Ltd
1047E7 (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

80-D1-0A (hex) Sichuan AI-Link Technology Co., Ltd.
80D10A (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou, Industrial Park
Mianyang Sichuan 622650
CN

AC-FC-E3 (hex) EM
Microelectronic
ACFCE3 (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

B0-A7-D2 (hex) Fiberhome Telecommunication Technologies Co.,LTD
B0A7D2 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074

CN

8C-87-D0 (hex) Shenzhen Uascent Technology Co.,Ltd
8C87D0 (base 16) Shenzhen Uascent Technology Co.,Ltd
701, block D, building 1, Lot 1, Chuangzhi Yuncheng building, Liuxian Avenue, Xili street, Nanshan District
Shenzhen 518000
CN

5C-17-83 (hex) Edgecore Americas Networking Corporation
5C1783 (base 16) Edgecore Americas Networking Corporation
20 Mason
Irvine CA 92618
US

7C-BA-C0 (hex) EVBox BV
7CBAC0 (base 16) EVBox BV
Kabelweg 47
Amsterdam Noord holland 1014 BA
NL

98-25-6E (hex) Private
98256E (base 16) Private

D4-13-B3 (hex) Wu Qi Technologies,Inc.
D413B3 (base 16) Wu Qi Technologies,Inc.
14/F,
107 Middle Road, Xiantao Big Data Valley, Yubei District
Chongqing Chongqing 401120
CN

64-70-60 (hex) Texas Instruments
647060 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

00-AA-FD (hex) Texas Instruments
00AAFD (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

60-E5-D8 (hex) zte corporation
60E5D8 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

54-35-E9 (hex) Feitian Technologies Co., Ltd
5435E9 (base 16) Feitian Technologies Co., Ltd
Floor 17, Tower B, Huizhi Mansion, No.9 Xueqing Rd, Haidian District
Beijing 100085
CN

7C-B5-9F (hex) HUAWEI TECHNOLOGIES CO.,LTD
7CB59F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

50-5C-88 (hex) Cisco Systems, Inc
505C88 (base 16) Cisco Systems, Inc
80
West Tasman Drive
San Jose CA 94568
US

0C-4B-EE (hex) Texas Instruments
0C4BEE (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

30-13-8B (hex) HP Inc.
30138B (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

60-68-32 (hex) Guangdong Seneasy Intelligent Technology Co., Ltd.
606832 (base 16) Guangdong Seneasy Intelligent Technology Co., Ltd.
No. 63, Huitai Industrial Park,
Huizhou City, Guangdong Province 516000
CN

84-33-F2 (hex) Shenzhen Stellamore Technology Co.,Ltd
8433F2 (base 16) Shenzhen Stellamore Technology Co.,Ltd
8th Floor, R&D Complex BuildingBaoyunda Logistics CenterFuhua Community, Xixiang Street, Bao'an
Shenzhen Guangdong 518100
CN

28-D0-43 (hex) AzureWave Technology Inc.
28D043 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

E4-D3-AA (hex) FCNT LLC
E4D3AA (base 16) FCNT LLC
Sanki
Yamato Building, 7-10-1 Chuorinkan
Yamato Kanagawa 242-8588
JP

B0-D5-76 (hex) Apple, Inc.
B0D576 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

14-28-76 (hex) Apple, Inc.
142876 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

14-7F-CE (hex) Apple, Inc.
147FCE (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

6C-C3-B2 (hex) Cisco Meraki
6CC3B2 (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco 94158
US

F8-CE-07 (hex) ZHEJIANG DAHUA TECHNOLOGYCO.,LTD
F8CE07 (base 16) ZHEJIANG DAHUA TECHNOLOGYCO.,LTD
1st Floor, Building 1, No. 1399, Binxing Road, Changhe Street, Binjiang District
Hangzhou City Zhejiang Province 311200
CN

20-98-ED (hex) AltoBeam Inc.
2098ED (base 16) AltoBeam Inc.
B808, Tsinghua Tongfang Hi-Tech Plaza, Haidian
Beijing Beijing 100083
CN

F8-8F-C8 (hex) Chipsea Technologies
(Shenzhen) Corp.
F88FC8 (base 16) Chipsea Technologies (Shenzhen) Corp.
3 / F, Block A, Building 2, Shenzhen Bay Innovation Technology Center, No.3156 keyuan South Road, Yuehai

Street, Nanshan District, Shenzhen
Shenzhen Guangdong 518000
CN

4C-10-D5 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
4C10D5 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

98-39-10 (hex) Kaon Group Co., Ltd.
983910 (base 16) Kaon Group Co., Ltd.
884-3, Seongnam-daero, Bundang-gu
Seongnam-si Gyeonggi-do 13517
KR

80-4C-5D (hex) NXP Semiconductor (Tianjin) LTD.
804C5D (base 16) NXP Semiconductor (Tianjin) LTD.
No.15 Xinghua Avenue, Xiqing Economic Development Area
Tianjin 300385
CN

28-91-76 (hex) Indyme Solutions, LLC
289176 (base 16) Indyme Solutions, LLC
8295 Aero Place Ste 260
San Diego CA
92123
US

28-A0-6B (hex) Intel Corporate
28A06B (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

7C-8B-C1 (hex) Infinix mobility limited
7C8BC1 (base 16) Infinix mobility limited
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
HongKong HongKong 999077
HK

3C-CA-61 (hex) TECNO MOBILE LIMITED
3CCA61 (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

EC-A9-71 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
ECA971 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

E0-08-55 (hex) AVM Audiovisuelles Marketing und Computersysteme GmbH
E00855 (base 16) AVM Audiovisuelles Marketing und Computersysteme GmbH
Alt-Moabit 95
Berlin Berlin
10559
DE

68-A2-AA (hex) Acres Manufacturing
68A2AA (base 16) Acres Manufacturing
6415 S Tenaya Way
Las Vegas NV 89113
US

88-AE-35 (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
88AE35 (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

70-49-A2 (hex) Zyxel Communications Corporation
7049A2 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

A0-7D-9C (hex) Samsung Electronics Co.,Ltd
A07D9C (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F8-C3-F1 (hex) Raytron Photonics Co.,Ltd.
F8C3F1 (base 16) Raytron Photonics Co.,Ltd.
3rd Floor, Building A, No. 66 Huaxiu Road, Xinwu District
Wuxi 214000
CN

D8-95-63 (hex) Taiwan Digital Streaming Co.
D89563 (base 16) Taiwan
Digital Streaming Co.
No. 50-15, Ln. 60, Jianping 9th St., Anping Dist.

Tainan City 70848
TW

B0-0C-9D (hex) Quectel Wireless Solutions Co.,Ltd.
B00C9D (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

F0-AB-1F (hex) zte corporation
F0AB1F (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

7C-B3-0A (hex) zte corporation
7CB30A (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

B4-C7-99 (hex) Extreme Networks Headquarters
B4C799 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

58-69-6C (hex) Ruijie Networks Co.,LTD
58696C (base 16) Ruijie Networks Co.,LTD
19# Building,Star-net Science Plaza,Juyuanzhou, 618 Jinshan Road
Fuzhou
Fujian 350002
CN

90-B8-32 (hex) Extreme Networks Headquarters
90B832 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

9C-5D-12 (hex) Extreme Networks Headquarters
9C5D12 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

F0-9C-E9 (hex) Extreme Networks Headquarters
F09CE9 (base 16) Extreme Networks Headquarters

2121 RDU Center Drive
Morrisville NC 27560
US

C8-67-5E (hex) Extreme Networks Headquarters
C8675E (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

C4-13-E2 (hex) Extreme Networks Headquarters
C413E2 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

40-E3-17 (hex) Extreme Networks Headquarters
40E317 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

AC-4D-D9
(hex) Extreme Networks Headquarters
AC4DD9 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

F4-CE-48 (hex) Extreme Networks Headquarters
F4CE48 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

00-DC-B2 (hex) Extreme Networks Headquarters
00DCB2 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

8C-83-94 (hex) Arcadyan Corporation
8C8394 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

CC-14-BC (hex) Edifier International

CC14BC (base 16) Edifier International
Suit 2207, 22nd floor, Tower II, Lippo centre, 89 Queensway
Hong Kong 070
CN

E8-D3-EB (hex) eero inc.
E8D3EB (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

B0-10-4B (hex) Fiberhome Telecommunication Technologies Co.,LTD
B0104B
(base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

44-36-5D (hex) Shenzhen HippStor Technology Co., Ltd
44365D (base 16) Shenzhen HippStor Technology Co., Ltd
24F, 3176 South Keyuan Road,Nanshan
Shenzhen Guangdong 518000
CN

54-C0-78 (hex) Infinix mobility limited
54C078 (base 16) Infinix mobility limited
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
HongKong HongKong 999077
HK

7C-BF-77 (hex) SPEEDTECH CORP.
7CBF77 (base 16) SPEEDTECH CORP.
No. 568, Sec. 1, Minsheng N. Rd., Guishan Dist., Taoyuan City 338, Taiwan
Taoyuan 338
TW

E8-17-11 (hex) Shenzhen Vipstech Co., Ltd
E81711 (base 16) Shenzhen Vipstech Co., Ltd
Building 10th, Baiwangxin Industrial Park, No. 1002 Songbai Road, Xili Street,
Shenzhen Guangdong 518100
CN

20-0B-74 (hex) AzureWave Technology Inc.
200B74 (base 16) AzureWave
Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231

TW

F8-FE-5E (hex) Intel Corporate
F8FE5E (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-25-DF (hex) Taser International Inc.
0025DF (base 16) Taser International Inc.
17800 N 85th St.
Scottsdale AZ 85255
US

4C-62-DF (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
4C62DF (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

10-28-74 (hex) Shenzhen Jingxun Technology Co., Ltd.
102874 (base 16) Shenzhen Jingxun Technology Co., Ltd.
3/F, A5 Building, Zhiyuan Community, No. 1001, Xueyuan Road, Nanshan District
Shenzhen 518071
CN

7C-73-98 (hex) Espressif Inc.
7C7398 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

6C-B4-56 (hex) Espressif Inc.
6CB456
(base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

E4-E2-6C (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
E4E26C (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

88-F9-16 (hex) Qingdao Dayu Dance Digital Technology Co.,Ltd
88F916 (base 16) Qingdao Dayu Dance Digital Technology Co.,Ltd
151 Huizhiqiao Road, High tech Zone, Qingdao, Shandong Province

Qingdao shandong 266114
CN

38-C0-EA (hex) Fortinet, Inc.
38C0EA (base 16) Fortinet, Inc.
899 Kifer Road
Sunnyvale 94086
US

D0-94-CF (hex) HUAWEI TECHNOLOGIES CO.,LTD
D094CF (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

04-38-55 (hex) Scopus International Pvt. Ltd.
043855 (base 16) Scopus International Pvt. Ltd.
A-46, Ground
floor, Pandav Nagar, Ganesh ngr complex,
New Delhi Delhi 110092
IN

9C-49-52 (hex) Dongguan Liesheng Electronic Co., Ltd.
9C4952 (base 16) Dongguan Liesheng Electronic Co., Ltd.
F5, Building B, North Block, Gaosheng Tech Park, No. 84 Zhongli Road, Nancheng District, Dongguan Ci
dongguan guangdong 523000
CN

C0-22-F1 (hex) IEEE Registration Authority
C022F1 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

44-6D-05 (hex) NoTraffic
446D05 (base 16) NoTraffic
Yigal Alon 53
Tel Aviv 6706206
IL

30-30-F9 (hex) Espressif Inc.
3030F9 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

54-22-59 (hex) HUAWEI TECHNOLOGIES CO.,LTD
542259 (base 16) HUAWEI TECHNOLOGIES CO.,LTD

No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

04-14-71 (hex) HUAWEI TECHNOLOGIES CO.,LTD
041471
(base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C8-16-A5 (hex) Masimo Corporation
C816A5 (base 16) Masimo Corporation
52 Discovery
Irvine CA 92618
US

18-C0-09 (hex) New H3C Technologies Co., Ltd
18C009 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

70-61-73 (hex) Calantec GmbH
706173 (base 16) Calantec GmbH
Handwerkerstr. 10
Hoppegarten 15366
DE

C8-9D-6D (hex) ITEL MOBILE LIMITED
C89D6D (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

EC-AB-3E (hex) ESSYS
ECAB3E (base 16) ESSYS
gaetbeol-ro
Incheon 21999
KR

38-4A-80 (hex) Samsung Electronics Co.,Ltd
384A80 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi
Gyeongbuk 730-350
KR

90-0E-9E (hex) Shenzhen SuperElectron Technology Co.,Ltd.
900E9E (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen Guangdong 518000
CN

54-F2-9F (hex) HUNAN FN-LINK TECHNOLOGY LIMITED
54F29F (base 16) HUNAN FN-LINK TECHNOLOGY LIMITED
No.8, Litong Road, Liuyan Economic & Tec
Changsha HUNAN 410329
CN

C8-2E-18 (hex) Espressif Inc.
C82E18 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

E8-6B-EA (hex) Espressif Inc.
E86BEA (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

4C-A0-D4 (hex) Telink Semiconductor (Shanghai) Co., Ltd.
4CA0D4 (base 16) Telink Semiconductor (Shanghai) Co., Ltd.
No. 1500 Zuchongzhi Rd, Building #3
Shanghai
201203
CN

A8-B4-83 (hex) Shenzhen SuperElectron Technology Co.,Ltd.
A8B483 (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen Guangdong 518000
CN

68-55-D4 (hex) Seiko Epson Corporation
6855D4 (base 16) Seiko Epson Corporation
2070 Kotobuki Koaka
Matsumoto-shi Nagano-ken 399-8702
JP

D4-22-CD (hex) Movella Technologies B.V.
D422CD (base 16) Movella Technologies B.V.
Pantheon 6-a
Enschede 7521 PR
NL

0C-65-9A (hex) Panasonic Automotive Systems Company of America
0C659A (base 16) Panasonic Automotive Systems Company of America
776 Highway 74 South
Peachtree City 30269
US

00-40-9E (hex) Concurrent Technologies Ltd.
00409E (base 16) Concurrent Technologies Ltd.
4 Gilberd Court, Newcomen Way
Colchester CO4 9WN
GB

28-8E-B9 (hex) Wacom Co.,Ltd.
288EB9 (base
16) Wacom Co.,Ltd.
Sumitomo Fudosan Shinjuku Grand Tower 31F,8-17-1
Nishi-shinjuku,Shinjuku-ku Tokyo 160-6131
JP

BC-24-11 (hex) Proxmox Server Solutions GmbH
BC2411 (base 16) Proxmox Server Solutions GmbH
Braeuhausgasse 37
Vienna Vienna 1050
AT

DC-68-80 (hex) zte corporation
DC6880 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

28-BB-ED (hex) Bouffalo Lab (Nanjing) Co., Ltd.
28BBED (base 16) Bouffalo Lab (Nanjing) Co., Ltd.
5F,Building A, No. 9 Yunzheng Street, Jiangbei New District, Nanjing, China
Nanjing Jiangsu 211800
CN

34-4E-2F (hex) LEAR
344E2F (base 16) LEAR
Carrer Fuster 54
Valls Tarragona 43800
ES

98-ED-CA (hex) Fiberhome Telecommunication Technologies Co.,LTD
98EDCA (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074

CN

EC-B0-D2 (hex) EM
Microelectronic
ECB0D2 (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

4C-EB-76 (hex) Murrelektronik GmbH
4CEB76 (base 16) Murrelektronik GmbH
Falkenstraße 3
Oppenweiler Baden-Württemberg 71570
DE

BC-8D-1F (hex) Cisco Systems, Inc
BC8D1F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

88-A6-EF (hex) IEEE Registration Authority
88A6EF (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

84-F5-EB (hex) zte corporation
84F5EB (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

D8-E7-2F (hex) Chipsea Technologies (Shenzhen) Corp.
D8E72F (base 16) Chipsea Technologies (Shenzhen) Corp.
3 / F, Block A, Building 2, Shenzhen Bay Innovation Technology Center, No.3156 keyuan South Road, Yuehai Street, Nanshan District, Shenzhen
Shenzhen
Guangdong 518000
CN

74-C7-6E (hex) RTK-TECHNOLOGIES, LLC
74C76E (base 16) RTK-TECHNOLOGIES, LLC
Yuzhnobutovskaya st., building 101, office 18
Moscow 117042
RU

C4-93-BB (hex) Beijing Xiaomi Mobile Software Co., Ltd

C493BB (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

E8-9C-25 (hex) ASUSTek COMPUTER INC.
E89C25 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

EC-C3-8A (hex) Accuenergy (CANADA) Inc
ECC38A (base 16) Accuenergy (CANADA) Inc
22 Howden Rd
Scarborough Ontario M1R 3E4
CA

14-99-3E (hex) Xiaomi Communications Co Ltd
14993E (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

78-46-7D (hex) SKAIChips
78467D (base 16) SKAIChips
Industry&Academy
Joint center 85412,2066,Seobu-ro
Jangan-gu,Suwon-si Gyeonggi-do 16419
KR

EC-74-8C (hex) Sony Interactive Entertainment Inc.
EC748C (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

B0-4F-A6 (hex) DongGuan Ramaxel Memory Technology
B04FA6 (base 16) DongGuan Ramaxel Memory Technology
No.32, Industrial East Road,Innovation Park, High-tech Industrial Development Zone, Songshan Lake, Dongguan City, Guangdong Province,China
DongGuan Guangdong 523808
CN

4C-99-92 (hex) vivo Mobile Communication Co., Ltd.
4C9992 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

04-57-91 (hex) Shenzhenshi Xinzhongxin Technology Co.Ltd
045791 (base 16) Shenzhenshi Xinzhongxin Technology Co.Ltd
Block 3, Dong Huan Industrial Park, Sha Jing Town, Bao'an District, Shenzhen City, Guangdong Province, China
ShenZHEN GuangDong
518104
CN

54-DF-1B (hex) Vestel Elektronik San ve Tic. A.S.
54DF1B (base 16) Vestel Elektronik San ve Tic. A.S.
Organize san
Manisa Turket 45030
TR

38-F9-F5 (hex) Garmin International
38F9F5 (base 16) Garmin International
1200 E. 151st St
Olathe KS 66062
US

60-BD-2C (hex) Taicang T&W Electronics
60BD2C (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

2C-4C-15 (hex) Juniper Networks
2C4C15 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

E4-10-88 (hex) Samsung Electronics Co.,Ltd
E41088 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-0C-C8 (hex) Xytronix Research & Design, Inc.
000CC8 (base 16) Xytronix Research & Design, Inc.
1681 West 2960 South
Nibley UT 84321
US

14-C0-50 (hex) GUANGDONG GENIUS TECHNOLOGY CO., LTD.
14C050 (base 16) GUANGDONG GENIUS TECHNOLOGY
CO., LTD.
No.168, Middle Road Of East Gate

Xiaobian Community Chang'an Town 523851
CN

44-1A-4C (hex) xFusion Digital Technologies Co.,Ltd.
441A4C (base 16) xFusion Digital Technologies Co.,Ltd.
9th Floor, Building 1, Zensun Boya Square, Longzihu Wisdom Island, Zhendong New District
Zhengzhou Henan 450000
CN

4C-62-CD (hex) Nokia
4C62CD (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

98-DA-92 (hex) Vuzix Corporation
98DA92 (base 16) Vuzix Corporation
25 Hendrix Rd
West Henrietta NY 14586
US

3C-52-A1 (hex) TP-Link Corporation Limited
3C52A1 (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

9C-F8-6B (hex) AgiTech Distribution Limited - Linki
9CF86B (base 16) AgiTech Distribution Limited - Linki
Unit F, 11/F, CNT Tower, 338 Hennessy Road, Wan Chai
Hong Kong Hong Kong 999077
HK

10-71-FA
(hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
1071FA (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

78-46-5C (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
78465C (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

D0-DD-7C (hex) zte corporation
D0DD7C (base 16) zte corporation

12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

84-3C-99 (hex) zte corporation
843C99 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

F8-3B-1D (hex) Vantiva USA LLC
F83B1D (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

E4-BF-FA (hex) Vantiva
USA LLC
E4BFFA (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

1C-9D-72 (hex) Vantiva USA LLC
1C9D72 (base 16) Vantiva USA LLC
4855 Peachtree Industrial Blvd, Suite 20
Norcross GA 30902
US

3C-82-C0 (hex) Vantiva USA LLC
3C82C0 (base 16) Vantiva USA LLC
4855 Peachtree Industrial Blvd, Suite 20
Norcross GA 30902
US

80-DA-C2 (hex) Vantiva USA LLC
80DAC2 (base 16) Vantiva USA LLC
4855 Peachtree Industrial Blvd, Suite 20
Norcross GA 30902
US

48-1B-40 (hex) Vantiva USA LLC
481B40 (base 16) Vantiva USA LLC
4855 Peachtree Industrial Blvd, Suite 20
Norcross GA 30902
US

B8-5E-71 (hex) Vantiva USA LLC

B85E71 (base 16) Vantiva USA LLC
4855 Peachtree Industrial Blvd, Suite 20
Norcross GA 30902
US

40-0F-C1 (hex) Vantiva USA LLC
400FC1 (base 16) Vantiva USA LLC
4855 Peachtree Industrial Blvd, Suite 20
Norcross GA
30902
US

10-7B-93 (hex) Zhen Shi Information Technology (Shanghai) Co., Ltd.
107B93 (base 16) Zhen Shi Information Technology (Shanghai) Co., Ltd.
5F, Building 3?No. 401 Caobao Road, Xuhui District, Shanghai, China
Shanghai Shanghai 200233
CN

70-5A-9E (hex) Vantiva USA LLC
705A9E (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

68-E5-9E (hex) Cisco Systems, Inc
68E59E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

F8-E5-CE (hex) Apple, Inc.
F8E5CE (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

14-B7-F8 (hex) Vantiva USA LLC
14B7F8 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

10-62-D0 (hex) Vantiva USA LLC
1062D0 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

10-C2-5A (hex) Vantiva USA LLC
10C25A (base
16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

D0-8A-91 (hex) Vantiva USA LLC
D08A91 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

88-F7-C7 (hex) Vantiva USA LLC
88F7C7 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

0C-02-27 (hex) Vantiva USA LLC
0C0227 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

F4-C1-14 (hex) Vantiva USA LLC
F4C114 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

74-97-8E (hex) Nova Labs
74978E (base 16) Nova Labs
2202 S Figueroa St, #408
Los Angeles CA 90007
US

08-23-C6 (hex) HUAWEI TECHNOLOGIES CO.,LTD
0823C6 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

50-E4-E0 (hex) Aruba,
a Hewlett Packard Enterprise Company
50E4E0 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054

US

70-36-B2 (hex) Focusai Corp
7036B2 (base 16) Focusai Corp
530 Lakeside Dr Suite 180
Sunnyvale CA 94085
US

4C-D7-17 (hex) Dell Inc.
4CD717 (base 16) Dell Inc.
One Dell Way
Round Rock 78682
US

C8-7F-54 (hex) ASUSTek COMPUTER INC.
C87F54 (base 16) ASUSTek COMPUTER INC.
No.15,Lide Rd., Beitou, Dist.,Taipei 112,Taiwan
Taipei Taiwan 112
TW

1C-C9-92 (hex) Honor Device Co., Ltd.
1CC992 (base 16) Honor Device Co., Ltd.
Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District
Shenzhen Guangdong 518040
CN

08-D1-F9 (hex) Espressif Inc.
08D1F9 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

34-B7-DA (hex) Espressif
Inc.
34B7DA (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

00-C7-11 (hex) ITEL MOBILE LIMITED
00C711 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

34-8D-52 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
348D52 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD

No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

1C-86-0B (hex) Guangdong Taiying Technology Co.,Ltd
1C860B (base 16) Guangdong Taiying Technology Co.,Ltd
No 10. Wutai Road, Shutian, Humen Town
Dongguan Guangdong 523929
CN

74-D7-13 (hex) Huaqin Technology Co. LTD
74D713 (base 16) Huaqin Technology Co. LTD
Building 11, No. 399, Keyuan Road, Pudong New Area
Shanghai 201203
CN

2C-C3-E6 (hex) SHENZHEN BILIAN ELECTRONIC
CO.LTD
2CC3E6 (base 16) SHENZHEN BILIAN ELECTRONIC CO.LTD
NO.268? Fuqian Rd, Jutang community, Guanlan Town, Longhua New district
shenzhen guangdong 518000
CN

F0-20-FF (hex) Intel Corporate
F020FF (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C8-8A-9A (hex) Intel Corporate
C88A9A (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

90-83-7E (hex) Fiberhome Telecommunication Technologies Co.,LTD
90837E (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

CC-B0-71 (hex) Fiberhome Telecommunication Technologies Co.,LTD
CCB071 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

48-55-41 (hex) Iskratel d.o.o.

485541 (base 16) Iskratel d.o.o.
Ljubljanska cesta 24a
Kranj 4000
SI

F0-90-08 (hex) Shenzhen Skyworth
Digital Technology CO., Ltd
F09008 (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

C8-4C-78 (hex) zte corporation
C84C78 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

80-2D-1A (hex) zte corporation
802D1A (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

68-23-F4 (hex) Shenzhen Jinlangxin Technology Co., Ltd
6823F4 (base 16) Shenzhen Jinlangxin Technology Co., Ltd
Rongchao Economic and Trade Center A309, No. 4028, Jintian Road, Fuzhong Community, Lianhua Street, Futian District
Shenzhen Guangdong 518000
CN

A0-B3-39 (hex) Intel Corporate
A0B339 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

6C-F6-DA (hex) Intel Corporate
6CF6DA (base 16) Intel
Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C8-6B-BC (hex) IEEE Registration Authority
C86BBC (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554

US

30-60-0A (hex) CIG SHANGHAI CO LTD
30600A (base 16) CIG SHANGHAI CO LTD
5th Floor, Building 8 No 2388 Chenhang Road
SHANGHAI 201114
CN

30-2F-1E (hex) SIEMENS AG
302F1E (base 16) SIEMENS AG
Oestliche Rheinbrückenstraße 50
Karlsruhe Baden-Württemberg 76181
DE

FC-B2-D6 (hex) CIG SHANGHAI CO LTD
FCB2D6 (base 16) CIG SHANGHAI CO LTD
5th Floor, Building 8 No 2388 Chenhang Road
SHANGHAI 201114
CN

60-FC-F1 (hex) Private
60FCF1 (base 16) Private

54-76-B2 (hex) Raisecom Technology CO., LTD
5476B2 (base 16) Raisecom Technology CO., LTD
No. 11, East Area, No. 10 Block, East Xibeiwang Road
Beijing 100094
CN

60-74-F4 (hex) Private
6074F4 (base 16) Private

A0-37-68 (hex) Shenzhen
E-Life Intelligence Technology Co.,Ltd.
A03768 (base 16) Shenzhen E-Life Intelligence Technology Co.,Ltd.
2/F, Wanji Industrial Park, No.39, the 2th Keji Middle Road, Yuehai street, NanshanDist
Shenzhen Guangdong 518000
CN

44-FA-66 (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
44FA66 (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

84-7A-DF (hex) FUJIAN STAR-NET COMMUNICATION CO.,LTD
847ADF (base 16) FUJIAN STAR-NET COMMUNICATION CO.,LTD
19-22# Building, Star-net Science Plaza, Juyuanzhou,

FUZHOU FUJIAN 350002
CN

68-13-F3 (hex) Amazon Technologies Inc.
6813F3 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

80-6D-97 (hex) Private
806D97 (base 16) Private

28-EB-0A (hex) Rolling Wireless S.a.r.l. Luxembourg
28EB0A (base 16) Rolling
Wireless S.a.r.l. Luxembourg
15, rue Edward Steichen
Luxembourg Luxembourg 2540
LU

84-8A-59 (hex) Hisilicon Technologies Co., Ltd
848A59 (base 16) Hisilicon Technologies Co., Ltd
Longgang District
Shenzhen Guandong 518129
CN

DC-CD-66 (hex) NXP Semiconductor (Tianjin) LTD.
DCCD66 (base 16) NXP Semiconductor (Tianjin) LTD.
No.15 Xinghua Avenue, Xiqing Economic Development Area
Tianjin 300385
CN

B0-FF-72 (hex) IEEE Registration Authority
B0FF72 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

64-9A-63 (hex) Ring LLC
649A63 (base 16) Ring LLC
1523 26th St
Santa Monica CA 90404
US

10-28-34 (hex) SALZ Automation GmbH
102834 (base 16) SALZ Automation GmbH
Max-Planck-Strasse 64
Bald Salzuflen 32107
DE

44-63-70 (hex) LCFC(HeFei) Electronics Technology co., ltd
446370 (base 16) LCFC(HeFei) Electronics Technology co., ltd
No.3188-1,YunGu
Road(Comprehensive Bonded Zone),Hefei Economic and Technological Development Area
HEFEI ANHUI 230601
CN

4C-70-CC (hex) Blyott NV
4C70CC (base 16) Blyott NV
Gaston Crommelaan 8
Ghent 9050
BE

58-68-61 (hex) VIASAT, INCORPORATED
586861 (base 16) VIASAT, INCORPORATED
6155 El Camino Real
Carlsbad 92009
US

14-C9-CF (hex) Sigmastar Technology Ltd.
14C9CF (base 16) Sigmastar Technology Ltd.
No. 1, HoZan Road, Tong'an District
X iamen Fujian Province 361100
CN

14-85-54 (hex) Earda Technologies co Ltd
148554 (base 16) Earda Technologies co Ltd
Block A,Lianfeng Creative Park, #2 Jisheng Rd., Nansha District
Guangzhou Guangdong 511455
CN

60-C0-1E (hex) V&G Information System Co.,Ltd
60C01E (base 16) V&G Information System Co.,Ltd
2nd Floor,Block B,No.599 Gaojing Road,Qingpu District
Shangshai Shangshai 201702
CN

2C-3C-05 (hex) Marinesync Corp
2C3C05
(base 16) Marinesync Corp
3469 Kurtz Street
San Diego CA 92110
US

00-08-B9 (hex) Kaon Group Co., Ltd.
0008B9 (base 16) Kaon Group Co., Ltd.
#113 Imae 1-Dong, Bundang-Gu

Sungnam-City Kyungki-Do 463-829
KR

98-CC-F3 (hex) Amazon Technologies Inc.
98CCF3 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

50-91-E3 (hex) TP-Link Corporation Limited
5091E3 (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

F0-21-78 (hex) UNIONMAN TECHNOLOGY CO.,LTD
F02178 (base 16) UNIONMAN TECHNOLOGY CO.,LTD
No.5,Huitai Road,Huinan High-Tech Park,Huiao Highway
Huizhou Guangdong 516025
CN

2C-3E-BF (hex) HOSIN Global Electronics Co., Ltd.
2C3EBF (base 16) HOSIN Global Electronics Co., Ltd.
Room 25,Block 2, Shenzhen New Generation Industrial Park, no.136 ZhongKang Road, Meidu community, Meilin Street,
Futian District
Shenzhen Guangzhou 518000
CN

40-D5-63 (hex) HANA Electronics
40D563 (base 16) HANA Electronics
Av. Abiurana, 450
Manaus Amazonas 69075-010
BR

34-88-18 (hex) Cisco Systems, Inc
348818 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-50-01 (hex) YAMASHITA SYSTEMS CORP.
005001 (base 16) YAMASHITA SYSTEMS CORP.
4-8-10 HIGASHISHINAGAWA
SHINAGAWA-KU 140-0002
JP

6C-EE-F7 (hex) shenzhen scodeno technology co., Ltd.

6CEEF7 (base 16) shenzhen scodeno technology co., Ltd.
2F, Building 6,Silicon Valley Power Digital Park, Dafu Road, Guanlan, Longhua District,Shenzhen
shenzhen Guangdong 518110
CN

B4-40-DC (hex) Samsung Electronics Co.,Ltd
B440DC (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

3C-33-32 (hex) D-Link Corporation
3C3332 (base 16) D-Link Corporation
No.289, Sinhu 3rd Rd.,
Neihu District,
Taipei City 114
TW

DC-2D-DE (hex) Ledworks SRL
DC2DDE (base 16) Ledworks SRL
Via Tortona 37
Milano Milano 20144
IT

64-17-CD (hex) Samsung Electronics Co.,Ltd
6417CD (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

DC-69-E2 (hex) Samsung Electronics Co.,Ltd
DC69E2 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C0-50-64 (hex) SHENNAN CIRCUITS CO.,LTD
C05064 (base 16) SHENNAN CIRCUITS CO.,LTD
Gao Qiao Industrial Park East,Long Gang District,
Shenzhen Guangdong 518117
CN

9C-FB-77 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
9CFB77 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

64-3E-0A (hex) HUAWEI TECHNOLOGIES CO.,LTD
643E0A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan
Lake Technology Park
Dongguan 523808
CN

14-33-75 (hex) Zyxel Communications Corporation
143375 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

2C-FE-E2 (hex) Qingdao Hisense Communications Co.,Ltd.
2CFEE2 (base 16) Qingdao Hisense Communications Co.,Ltd.
Qianwangang Road 218
Qingdao Shandong 266510
CN

00-14-57 (hex) Nevion
001457 (base 16) Nevion
Lysaker Torg 5
Lysaker NO-1366
NO

C4-D6-66 (hex) Cisco Meraki
C4D666 (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco 94158
US

18-DE-50 (hex) Tuya Smart Inc.
18DE50 (base 16) Tuya Smart Inc.
160 Greentree Drive, Suite 101
Dover DE 19904
US

94-79-18 (hex) ITEL MOBILE LIMITED
947918 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

68-F0-B5
(hex) Honor Device Co., Ltd.
68F0B5 (base 16) Honor Device Co., Ltd.
Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District

Shenzhen Guangdong 518040
CN

10-18-49 (hex) WEIFANG GOERTEK ELECTRONICS CO.,LTD
101849 (base 16) WEIFANG GOERTEK ELECTRONICS CO.,LTD
Gaoxin 2 Road, Free Trade Zone,Weifang,Shandong,261205,P.R.China
Weifang Shandong 261205
CN

08-F9-E0 (hex) Espressif Inc.
08F9E0 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

00-36-D7 (hex) Keltron IOT Corp.
0036D7 (base 16) Keltron IOT Corp.
1110 Beaumont Rd
Roanoke VA 24019
US

34-DC-99 (hex) New H3C Technologies Co., Ltd
34DC99 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

5C-E8-D3 (hex) Signalinks Communication Technology Co.,
Ltd
5CE8D3 (base 16) Signalinks Communication Technology Co., Ltd
3F,Building No.6, Donglongxing Technology Park, Huanning Road,Xinshi Community, Dalang Street, Longhua District, Shenzhen.
Shenzhen 518000
CN

44-05-3F (hex) Sagemcom Broadband SAS
44053F (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

80-80-2C (hex) Fortinet, Inc.
80802C (base 16) Fortinet, Inc.
899 Kifer Road
Sunnyvale 94086
US

48-31-B7 (hex) Espressif Inc.

4831B7 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

54-32-04 (hex) Espressif Inc.
543204 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

CC-B5-4C (hex) Texas Instruments
CCB54C (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

74-A5-8C (hex) Texas Instruments
74A58C
(base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

3C-E0-02 (hex) Texas Instruments
3CE002 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

40-2A-8F (hex) Shanghai High-Flying Electronics Technology Co., Ltd
402A8F (base 16) Shanghai High-Flying Electronics Technology Co., Ltd
Room 1002,#1Building,No.3000 Longdong Avenue,Pudong
Shanghai Shanghai 201202
CN

B0-38-93 (hex) Onda TLC Italia S.r.l.
B03893 (base 16) Onda TLC Italia S.r.l.
Via Antonio Chinotto 1
Roma 00195
IT

28-C1-A0 (hex) Apple, Inc.
28C1A0 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

EC-2C-73 (hex) Apple, Inc.
EC2C73 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

7C-C0-6F (hex) Apple, Inc.
7CC06F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

EC-81-50 (hex) Apple, Inc.
EC8150 (base
16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D4-2F-CA (hex) Apple, Inc.
D42FCA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D0-58-A5 (hex) Apple, Inc.
D058A5 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B0-97-38 (hex) Shenzhen Skyworth Digital Technology CO., Ltd
B09738 (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

B8-60-61 (hex) China Mobile Group Device Co.,Ltd.
B86061 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

8C-DF-2C (hex) vivo Mobile Communication Co., Ltd.
8CDF2C (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

F8-79-28 (hex) zte corporation
F87928 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen
guangdong 518057
CN

2C-67-AB (hex) EZELINK TELECOM
2C67AB (base 16) EZELINK TELECOM
Bay Square Building 06 - Office No 105
Dubai Dubai 111581
AE

2C-D7-FF (hex) LANCOM Systems GmbH
2CD7FF (base 16) LANCOM Systems GmbH
Adenauer Straße 20 /B2
Würselen 52146
DE

98-03-8A (hex) Texas Instruments
98038A (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

F8-B8-B4 (hex) Shenzhen Skyworth Digital Technology CO., Ltd
F8B8B4 (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

68-1A-A4 (hex) Shenzhen Skyworth Digital Technology CO., Ltd
681AA4 (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

48-55-5E (hex) Shenzhen Skyworth Digital Technology CO., Ltd
48555E (base 16) Shenzhen Skyworth Digital
Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

70-06-92 (hex) IEEE Registration Authority
700692 (base 16) IEEE Registration Authority
445 Hoes Lane

Piscataway NJ 08554
US

1C-88-0C (hex) Shenzhen Skyworth Digital Technology CO., Ltd
1C880C (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

34-85-11 (hex) Shenzhen Skyworth Digital Technology CO., Ltd
348511 (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

D8-8E-D4 (hex) eero inc.
D88ED4 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

94-3F-D6 (hex) Apple, Inc.
943FD6 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

38-B5-C9 (hex) INGRAM MICRO SERVICES
38B5C9 (base 16) INGRAM MICRO SERVICES
100 CHEMIN
DE BAILLOT
MONTAUBAN 82000
FR

98-4B-06 (hex) HUAWEI TECHNOLOGIES CO.,LTD
984B06 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

AC-FF-6B (hex) HUAWEI TECHNOLOGIES CO.,LTD
ACFF6B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

84-4D-BE (hex) Fiberhome Telecommunication Technologies Co.,LTD
844DBE (base 16) Fiberhome Telecommunication Technologies Co.,LTD

No.5 DongXin Road
Wuhan Hubei 430074
CN

38-AB-16 (hex) NPO RTT LLC
38AB16 (base 16) NPO RTT LLC
Goncharnaya st, 30, bld 1, B529
Moscow Select State 115172
RU

44-A8-42 (hex) Dell Inc.
44A842 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

4C-76-25 (hex) Dell Inc.
4C7625 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

00-11-43 (hex) Dell
Inc.
001143 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

00-13-72 (hex) Dell Inc.
001372 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

00-18-8B (hex) Dell Inc.
00188B (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

80-B9-46 (hex) Nokia
80B946 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

F8-CA-B8 (hex) Dell Inc.

F8CAB8 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

F0-1F-AF (hex) Dell Inc.
F01FAF (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

18-A9-9B (hex) Dell Inc.
18A99B (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

F8-BC-12 (hex) Dell Inc.
F8BC12 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

00-20-67 (hex) Private
002067 (base 16) Private

AC-DE-48 (hex) Private
ACDE48 (base 16) Private

00-50-C7 (hex) Private
0050C7
(base 16) Private

E8-65-5F (hex) Dell Inc.
E8655F (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

E8-B2-65 (hex) Dell Inc.
E8B265 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

AC-91-A1 (hex) Dell Inc.
AC91A1 (base 16) Dell Inc.
One Dell Way

Round Rock TX 78682
US

C4-CB-E1 (hex) Dell Inc.
C4CBE1 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

38-14-28 (hex) Dell Inc.
381428 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

F4-EE-08 (hex) Dell Inc.
F4EE08 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

90-8D-6E (hex) Dell Inc.
908D6E (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

EC-2A-72 (hex) Dell Inc.
EC2A72 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

74-86-E2 (hex) Dell Inc.
7486E2 (base 16) Dell Inc.
One Dell
Way
Round Rock TX 78682
US

00-BE-43 (hex) Dell Inc.
00BE43 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

60-5B-30 (hex) Dell Inc.
605B30 (base 16) Dell Inc.

One Dell Way
Round Rock TX 78682
US

C8-4B-D6 (hex) Dell Inc.
C84BD6 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

B4-E1-0F (hex) Dell Inc.
B4E10F (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

18-66-DA (hex) Dell Inc.
1866DA (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

18-DB-F2 (hex) Dell Inc.
18DBF2 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

14-B3-1F (hex) Dell Inc.
14B31F (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

10-7D-1A (hex) Dell Inc.
107D1A (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

50-9A-4C (hex) Dell Inc.
509A4C (base 16) Dell Inc.
One
Dell Way
Round Rock TX 78682
US

24-71-52 (hex) Dell Inc.

247152 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

8C-47-BE (hex) Dell Inc.
8C47BE (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

60-18-95 (hex) Dell Inc.
601895 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

B0-4F-13 (hex) Dell Inc.
B04F13 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

40-5C-FD (hex) Dell Inc.
405CFD (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

D0-94-66 (hex) Dell Inc.
D09466 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

D8-9E-F3 (hex) Dell Inc.
D89EF3 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

10-65-30 (hex) Dell Inc.
106530 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

3C-2C-30 (hex) Dell Inc.

3C2C30 (base 16) Dell Inc.
One
Dell Way
Round Rock TX 78682
US

88-6F-D4 (hex) Dell Inc.
886FD4 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

5C-F9-DD (hex) Dell Inc.
5CF9DD (base 16) Dell Inc.
One Dell way
Round Rock 78682
US

00-4E-01 (hex) Dell Inc.
004E01 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

00-08-74 (hex) Dell Inc.
000874 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

00-24-E8 (hex) Dell Inc.
0024E8 (base 16) Dell Inc.
One Dell Way, MS RR5-45
Round Rock 78682
US

00-22-19 (hex) Dell Inc.
002219 (base 16) Dell Inc.
One Dell Way, MS RR5-45
Round Rock 78682
US

34-17-EB (hex) Dell Inc.
3417EB (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

B0-83-FE (hex) Dell Inc.
B083FE (base 16) Dell Inc.
One Dell way
Round Rock 78682
US

94-CB-CD (hex) zte corporation
94CBCD (base 16) zte
corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

80-5F-8E (hex) Huizhou BYD Electronic Co., Ltd.
805F8E (base 16) Huizhou BYD Electronic Co., Ltd.
Xiangshui River, Economic Development Zone, Daya Bay, Huizhou, Guangdong, China
Huizhou Guangdong 516000
CN

A8-3A-79 (hex) Mist Systems, Inc.
A83A79 (base 16) Mist Systems, Inc.
1601 South De Anza Blvd, Suite 248
Cupertino CA 95014
US

54-88-FE (hex) Xiaoniu network technology (Shanghai) Co., Ltd.
5488FE (base 16) Xiaoniu network technology (Shanghai) Co., Ltd.
Room 706, building 3, no.20 east road, jingan district.
Shang hai 200040
CN

F4-D5-80 (hex) YAMAHA CORPORATION
F4D580 (base 16) YAMAHA CORPORATION
10-1 Nakazawa-cho, Naka-ku
Hamamatsu Shizuoka 430-8650
JP

A8-52-D4 (hex) Aruba, a Hewlett Packard Enterprise Company
A852D4 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333
Scott Blvd
Santa Clara CA 95054
US

50-30-F4 (hex) Exascend, Inc.
5030F4 (base 16) Exascend, Inc.
530 Lawrence Expy., #416
Sunnyvale CA 94085

US

DC-EC-E3 (hex) LYOTECH LABS LLC
DCECE3 (base 16) LYOTECH LABS LLC
8 the Green suite R
Dover 19901
US

E4-90-69 (hex) Rockwell Automation
E49069 (base 16) Rockwell Automation
1 Allen-Bradley Dr.
Mayfield Heights OH 44124-6118
US

18-4C-08 (hex) Rockwell Automation
184C08 (base 16) Rockwell Automation
1 Allen-Bradley Dr.
Mayfield Heights OH 44124-6118
US

FC-35-E6 (hex) Visteon Corporation
FC35E6 (base 16) Visteon Corporation
One Village Center Dr
Belleville MI 48111
US

8C-BA-25 (hex) UNION MAN TECHNOLOGY CO.,LTD
8CBA25 (base 16) UNION MAN TECHNOLOGY CO.,LTD
No.5,Huitai Road,Huinan High-Tech Park,Huiao Highway
Huizhou Guangdong 516025
CN

54-72-5E (hex) UNION MAN TECHNOLOGY CO.,LTD
54725E
(base 16) UNION MAN TECHNOLOGY CO.,LTD
No.5,Huitai Road,Huinan High-Tech Park,Huiao Highway
Huizhou Guangdong 516025
CN

F8-14-FE (hex) UNION MAN TECHNOLOGY CO.,LTD
F814FE (base 16) UNION MAN TECHNOLOGY CO.,LTD
No.5, Huitai Road Huinan High-Tech Park,Huiao Highway
Huizhou Guangdong 516025
CN

CC-62-FE (hex) UNION MAN TECHNOLOGY CO.,LTD
CC62FE (base 16) UNION MAN TECHNOLOGY CO.,LTD
No.5,Huitai Road,Huinan High-Tech Park,Huiao Highway

Huizhou Guangdong 516025
CN

40-41-01 (hex) Rockwell Automation
404101 (base 16) Rockwell Automation
1 Allen-Bradley Dr.
Mayfield Heights OH 44124-6118
US

68-C8-EB (hex) Rockwell Automation
68C8EB (base 16) Rockwell Automation
1 Allen-Bradley Dr.
Mayfield Heights OH 44124-6118
US

7C-BF-AE (hex) Renesas Electronics (Penang) Sdn. Bhd.
7CBFAE (base 16) Renesas Electronics (Penang) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang
11900
MY

80-AF-CA (hex) Shenzhen Cudy Technology Co., Ltd.
80AFCA (base 16) Shenzhen Cudy Technology Co., Ltd.
Room A606, Gaoxinqi Industrial Park, Baoan 67 Dist
Baoan 67 District, Shenzhen 518101
CN

1C-6E-74 (hex) EnOcean Edge Inc.
1C6E74 (base 16) EnOcean Edge Inc.
8184 S. Highland Dr. Ste C5
Sandy UT 84093
US

B4-17-A8 (hex) Meta Platforms Technologies, LLC
B417A8 (base 16) Meta Platforms Technologies, LLC
1 Hacker Way
Menlo Park CA 94025
US

C0-95-73 (hex) AIxLink
C09573 (base 16) AIxLink
Office 2702, Unit3, Building 1, Shudu Center Phase II. 333 Jiqing Third Road. High-Tech Zone
Chegndu Sichuan 610041
CN

04-47-2A (hex) Palo Alto Networks
04472A (base 16) Palo Alto Networks

3000 Tannery Way
Santa Clara CA 95054
US

C0-2C-17 (hex) Cisco Systems, Inc
C02C17 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

98-49-25 (hex) Juniper
Networks
984925 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

44-19-B6 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
4419B6 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.469,Jianghui Road
Hangzhou Zhejiang 310052
CN

7C-89-31 (hex) Huawei Device Co., Ltd.
7C8931 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

BC-5E-33 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
BC5E33 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

FC-9F-FD (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
FC9FFD (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

E8-A0-ED (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
E8A0ED (base 16) Hangzhou Hikvision Digital Technology
Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

5C-34-5B (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
5C345B (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

7C-ED-C6 (hex) Amazon Technologies Inc.
7CEDC6 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

48-25-F3 (hex) Huawei Device Co., Ltd.
4825F3 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C0-48-84 (hex) Sigma Bilisim Sist. Tekn. Elk. Enj. ve San. D??. Tic. Ltd. ?ti.
C04884 (base 16) Sigma Bilisim Sist. Tekn. Elk. Enj. ve San. D??. Tic. Ltd. ?ti.
CEV?ZL?DERE MAH. 1226. SOK. NO:14/1 AYTUNA APT.
ANKARA 06520
TR

4C-BD-8F (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
4CBD8F (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou
Zhejiang 310052
CN

F4-12-DA (hex) zte corporation
F412DA (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

54-02-95 (hex) HUAWEI TECHNOLOGIES CO.,LTD
540295 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C8-78-7D (hex) D-Link Corporation
C8787D (base 16) D-Link Corporation
No.289, Sinhu 3rd Rd., Neihu District,
Taipei City 114
TW

40-F2-1C (hex) DZS Inc.
40F21C (base 16) DZS Inc.
5700 Tennyson Parkway, Suite 400
Plano TX 75024
US

00-18-0C (hex) DZS Inc.
00180C (base 16) DZS Inc.
22A-1051 Baxter Road
Ottawa Ontario K2C 3P2
CA

00-E0-DF (hex) DZS Inc.
00E0DF (base 16) DZS Inc.
Wohlenbergstrasse. 3
Hannover 30179
DE

00-A0-1B (hex) DZS Inc.
00A01B (base 16) DZS Inc.
48664 MILMONT DRIVE
FREMONT CA 94538
US

D0-93-95
(hex) IEEE Registration Authority
D09395 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

F4-E2-C6 (hex) Ubiquiti Inc
F4E2C6 (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

D8-B3-70 (hex) Ubiquiti Inc
D8B370 (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

B0-A7-32 (hex) Espressif Inc.
B0A732 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203

CN

B0-B2-1C (hex) Espressif Inc.
B0B21C (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

B4-FB-E4 (hex) Ubiquiti Inc
B4FBE4 (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

68-72-51 (hex) Ubiquiti Inc
687251 (base 16) Ubiquiti Inc
685 Third Avenue,
27th Floor
New York NY New York NY 10017
US

E0-9B-27 (hex) Ciena Corporation
E09B27 (base 16) Ciena Corporation
7035 Ridge Road
Hanover MD 21076
US

FC-EC-DA (hex) Ubiquiti Inc
FCECDA (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

94-2A-6F (hex) Ubiquiti Inc
942A6F (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

8C-E0-42 (hex) vivo Mobile Communication Co., Ltd.
8CE042 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

40-71-83 (hex) Juniper Networks
407183 (base 16) Juniper Networks
1133 Innovation Way

Sunnyvale CA 94089
US

40-B4-F0 (hex) Juniper Networks
40B4F0 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

38-4F-49 (hex) Juniper Networks
384F49 (base 16) Juniper Networks
1133
Innovation Way
Sunnyvale CA 94089
US

58-00-BB (hex) Juniper Networks
5800BB (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

D0-07-CA (hex) Juniper Networks
D007CA (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

D8-B1-22 (hex) Juniper Networks
D8B122 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

9C-C8-93 (hex) Juniper Networks
9CC893 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

58-E4-34 (hex) Juniper Networks
58E434 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

B0-EB-7F (hex) Juniper Networks
B0EB7F (base 16) Juniper Networks

1133 Innovation Way
Sunnyvale CA 94089
US

28-B8-29 (hex) Juniper Networks
28B829 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

64-C3-D6 (hex) Juniper Networks
64C3D6
(base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

C0-BF-A7 (hex) Juniper Networks
C0BFA7 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

B0-33-A6 (hex) Juniper Networks
B033A6 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

20-1B-C9 (hex) Juniper Networks
201BC9 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

54-1E-56 (hex) Juniper Networks
541E56 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

88-A2-5E (hex) Juniper Networks
88A25E (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

00-31-46 (hex) Juniper Networks

003146 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

78-FE-3D (hex) Juniper Networks
78FE3D (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA
94089
US

64-87-88 (hex) Juniper Networks
648788 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

AC-4B-C8 (hex) Juniper Networks
AC4BC8 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

3C-94-D5 (hex) Juniper Networks
3C94D5 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

50-C7-09 (hex) Juniper Networks
50C709 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

00-C5-2C (hex) Juniper Networks
00C52C (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

B4-8A-5F (hex) Juniper Networks
B48A5F (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

E0-F6-2D (hex) Juniper Networks
E0F62D (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

EC-7C-5C (hex) Juniper Networks
EC7C5C (base 16) Juniper Networks
1133
Innovation Way
Sunnyvale CA 94089
US

DC-38-E1 (hex) Juniper Networks
DC38E1 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

CC-E1-7F (hex) Juniper Networks
CCE17F (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

80-7F-F8 (hex) Juniper Networks
807FF8 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

54-B7-BD (hex) Arcadyan Corporation
54B7BD (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

BC-73-A4 (hex) ANDA TELECOM PVT LTD
BC73A4 (base 16) ANDA TELECOM PVT LTD
E-36 Amar Colony, Lajpat Nagar, New Delhi
New Delhi Delhi 110024
IN

14-F5-F9 (hex) HUNAN FN-LINK TECHNOLOGY LIMITED
14F5F9 (base 16) HUNAN FN-LINK TECHNOLOGY LIMITED
No.8, Litong Road, Liuyan Economic & Tec
Changsha HUNAN 410329
CN

AC-17-54 (hex) tiko Energy Solutions AG
AC1754
(base 16) tiko Energy Solutions AG
Pflanzschulstrasse 7
Zürich Zürich 8004
CH

AC-E0-D6 (hex) koreabts
ACE0D6 (base 16) koreabts
362-11, Jongga-ro, Jung-gu, Ulsan, Republic of Korea
Ulsan 44428
KR

FC-57-03 (hex) Hisense broadband multimedia technology Co.,Ltd
FC5703 (base 16) Hisense broadband multimedia technology Co.,Ltd
Song ling Road 399
Qingdao 266000
CN

E8-97-B8 (hex) Chiun Mai Communication System, Inc
E897B8 (base 16) Chiun Mai Communication System, Inc
No.4, MingSheng St. TuCheng District
New Taipei City 23679
TW

94-F5-24 (hex) Chengdu BeiZhongWangXin Technology Co.Ltd
94F524 (base 16) Chengdu BeiZhongWangXin Technology Co.Ltd
Room 1209,Building 13,No.599,Middle YiZhou Avenue Chengdu, China
chengdu 610000
CN

60-FA-B1 (hex) Kempower Oyj
60FAB1 (base 16) Kempower Oyj
Ala-Okeroistentie 29
Lahti 15700
FI

A4-C2-3E (hex) Huizhou Speed
Wireless Technology Co.,Ltd
A4C23E (base 16) Huizhou Speed Wireless Technology Co.,Ltd
138 Huize Avenue, Shangxia District
Dongjiang Hi tech Industrial Park, Shuikou Huizhou, Guangdong 516000
CN

00-50-C4 (hex) IMD
0050C4 (base 16) IMD
Dornierstr. 4

Puchheim 82178
DE

00-1A-A6 (hex) Elbit Systems Deutschland GmbH & Co. KG
001AA6 (base 16) Elbit Systems Deutschland GmbH & Co. KG
Eberhard-Finckh-Strasse 55
Ulm Baden-Wurttemberg 89075
DE

7C-45-F9 (hex) IEEE Registration Authority
7C45F9 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

C0-EA-C3 (hex) IEEE Registration Authority
C0EAC3 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

FC-A0-F3 (hex) HUAWEI TECHNOLOGIES CO.,LTD
FCA0F3 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

04-A8-1C
(hex) HUAWEI TECHNOLOGIES CO.,LTD
04A81C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

30-40-74 (hex) zte corporation
304074 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

10-CF-0F (hex) Apple, Inc.
10CF0F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D8-63-8C (hex) Shenzhen Dttek Technology Co., Ltd.
D8638C (base 16) Shenzhen Dttek Technology Co., Ltd.

Unit 405,Building 2C,Shenzhen Software Industrial Base, 10th Hi-Tech South Road,Yuehai Street
Shenzhen Guangdong 518057
CN

1C-76-F2 (hex) Samsung Electronics Co.,Ltd
1C76F2 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

00-92-A5 (hex) LG Innotek
0092A5 (base 16) LG Innotek
26, Hanamsandan 5beon-ro
Gwangju Gwangsan-gu
506-731
KR

A0-10-77 (hex) zte corporation
A01077 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

7C-7A-3C (hex) New H3C Technologies Co., Ltd
7C7A3C (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

48-31-77 (hex) Nintendo Co.,Ltd
483177 (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

14-0F-A6 (hex) Renesas Electronics (Penang) Sdn. Bhd.
140FA6 (base 16) Renesas Electronics (Penang) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

14-84-73 (hex) Cisco Systems, Inc
148473 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

1C-CA-41 (hex) AO

1CCA41 (base 16) AO
Verhnyaya Krasnoselskaya, 11A, building 3, fl. 3, cab. 8.
Moscow 107140
RU

34-7D-E4 (hex) SHENZHEN
BILIAN ELECTRONIC CO.LTD
347DE4 (base 16) SHENZHEN BILIAN ELECTRONIC CO.LTD
NO.268? Fuqian Rd, Jutang community, Guanlan Town, Longhua New district
shenzhen guangdong 518000
CN

CC-CF-83 (hex) CIG SHANGHAI CO LTD
CCCF83 (base 16) CIG SHANGHAI CO LTD
5th Floor, Building 8 No 2388 Chenhang Road
SHANGHAI 201114
CN

B4-63-6F (hex) Nokia Solutions and Networks GmbH & Co. KG
B4636F (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541
DE

24-D3-37 (hex) Xiaomi Communications Co Ltd
24D337 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

90-31-4B (hex) AltoBeam Inc.
90314B (base 16) AltoBeam Inc.
B808, Tsinghua Tongfang Hi-Tech Plaza, Haidian
Beijing Beijing 100083
CN

20-5F-3D (hex) Adtran Inc
205F3D (base 16) Adtran Inc
Victory House, Vision
Park, Chivers Way, Histon
Cambridge CB24 9ZR
GB

3C-3B-4D (hex) Toyo Seisakusho Kaisha, Limited
3C3B4D (base 16) Toyo Seisakusho Kaisha, Limited
2-4-6 Honjyo
Higashi-Osaka Osaka 578-0953
JP

3C-BC-D0 (hex) zte corporation
3CBCD0 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

D0-A9-D3 (hex) EM Microelectronic
D0A9D3 (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

14-DD-02 (hex) Liangang Optoelectronic Technology CO., Ltd.
14DD02 (base 16) Liangang Optoelectronic Technology CO., Ltd.
150 JingHai West Road,ShaQu Village ShaTou Area,ChangAn Town
DongGuan GuangDong 523846
CN

60-C7-27 (hex) Digiboard Eletronica da Amazonia Ltda
60C727 (base 16) Digiboard Eletronica da Amazonia Ltda
1111-A Matrinxa
Manaus Amazonia 69075-150
BR

64-6E-60 (hex) zte corporation
646E60 (base
16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

4C-42-1E (hex) Cisco Systems, Inc
4C421E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

64-B2-B4 (hex) Fiberhome Telecommunication Technologies Co.,LTD
64B2B4 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

48-31-DB (hex) Huawei Device Co., Ltd.
4831DB (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808

CN

04-F7-78 (hex) Sony Interactive Entertainment Inc.
04F778 (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

58-70-7F (hex) Ericsson AB
58707F (base 16) Ericsson AB
Torshamnsgatan 36
Stockholm SE-164 80
SE

D0-39-FA (hex) Samsung Electronics Co.,Ltd
D039FA (base 16) Samsung Electronics
Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B4-0B-1D (hex) Samsung Electronics Co.,Ltd
B40B1D (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

AC-80-FB (hex) Samsung Electronics Co.,Ltd
AC80FB (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

14-7F-0F (hex) Texas Instruments
147F0F (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

44-4A-D6 (hex) Shenzhen Rinocloud Technology Co.,Ltd.
444AD6 (base 16) Shenzhen Rinocloud Technology Co.,Ltd.
Qianhai Complex A201, Qianwan Road 1, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen,P.R.China
shenzhen guangdong 440300
CN

18-9E-AD (hex) Shenzhen Chengqian Information Technology Co., Ltd
189EAD (base 16) Shenzhen Chengqian Information Technology Co., Ltd
A730-731, Huafeng Internet Creative Park, No. 107 Gonghe Industrial Road, Xixiang Street,

Bao'an District
Shenzhen Guangdong 518100
CN

94-DD-F8 (hex) Brother Industries, LTD.
94DDF8 (base 16) Brother Industries, LTD.
15-1, Naeshirocho, Mizuho-ku
NAGOYA 4678561
JP

84-B3-86 (hex) IEEE Registration Authority
84B386 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

40-8E-F6 (hex) Infinix mobility limited
408EF6 (base 16) Infinix mobility limited
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
HongKong HongKong 999077
HK

E0-2D-F0 (hex) ALPSALPINE CO,.LTD
E02DF0 (base 16) ALPSALPINE CO,.LTD
nishida 6-1
kakuda-City Miyagi-Pref 981-1595
JP

A4-5D-5E (hex) Wilk Elektronik S.A.
A45D5E (base 16) Wilk Elektronik S.A.
Mikolowska 42
Laziska Gorne Slaskie 43-173
PL

FC-31-5D (hex) Apple, Inc.
FC315D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

74-A6-CD (hex) Apple,
Inc.
74A6CD (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

2C-7C-F2 (hex) Apple, Inc.
2C7CF2 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

30-D7-A1 (hex) Apple, Inc.
30D7A1 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

88-74-77 (hex) HUAWEI TECHNOLOGIES CO.,LTD
887477 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A8-72-7E (hex) WISDRI (wuhan) Automation Company Limited
A8727E (base 16) WISDRI (wuhan) Automation Company Limited
No. 9, Fenghuangyuan 1st Road, Donghu New Technology Development Zone
Wuhan Hubei 430000
CN

DC-D2-FD (hex) HUAWEI TECHNOLOGIES CO.,LTD
DCD2FD (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

58-73-D1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
5873D1
(base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

4C-B0-87 (hex) HUAWEI TECHNOLOGIES CO.,LTD
4CB087 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

88-B4-BE (hex) HUAWEI TECHNOLOGIES CO.,LTD
88B4BE (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

94-7B-AE (hex) Xiaomi Communications Co Ltd
947BAE (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

00-C2-8F (hex) Allied Telesis K.K.
00C28F (base 16) Allied Telesis K.K.
2nd. TOC Bldg. 7-21-11 Nishi-Gotanda, Shinagawa-ku, Tokyo
Tokyo 141-0031
JP

F4-2D-06 (hex) zte corporation
F42D06 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen
guangdong 518057
CN

1C-67-4A (hex) zte corporation
1C674A (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

7C-57-58 (hex) HP Inc.
7C5758 (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

C8-29-C8 (hex) Palo Alto Networks
C829C8 (base 16) Palo Alto Networks
3000 Tannery Way
Santa Clara CA 95054
US

9C-53-22 (hex) TP-Link Corporation Limited
9C5322 (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

48-22-54 (hex) TP-Link Corporation Limited
482254 (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077

HK

B4-E2-65 (hex) Shenzhen SDMC Technology CO.,Ltd.
B4E265 (base 16) Shenzhen SDMC Technology CO.,Ltd.
19/F, Changhong
Science & Technology Mansion, No.18, Keji South 12th Road, High-tech Industrial Park, Nanshan District
Shenzhen GUANGDONG 518027
CN

E0-38-2D (hex) IEEE Registration Authority
E0382D (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

98-BF-F4 (hex) MARKIN co., Ltd.
98BFF4 (base 16) MARKIN co., Ltd.
101 DONG 1303 HO 36, Bucheon 198beon-gil
Bucheon-si Gyeonggi-do 14557
KR

78-60-5B (hex) TP-LINK TECHNOLOGIES CO.,LTD.
78605B (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

04-F9-F8 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
04F9F8 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

38-47-F2 (hex) Recogni Inc
3847F2 (base
16) Recogni Inc
2590 N 1ST STSuite 320
San Jose CA 95131
US

D8-AD-49 (hex) Honor Device Co., Ltd.
D8AD49 (base 16) Honor Device Co., Ltd.
Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District
Shenzhen Guangdong 518040
CN

38-F8-F6 (hex) Adtran Inc

38F8F6 (base 16) Adtran Inc
901 Explorer Blvd.
Huntsville AL 35806-2807
US

B4-84-D5 (hex) GooWi Wireless Technology Co., Limited
B484D5 (base 16) GooWi Wireless Technology Co., Limited
RM1601,Crative BuildingII East Tianan
City Futian Shenzhen Guangdong 518000
CN

54-07-7D (hex) NETGEAR
54077D (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

C4-53-79 (hex) Micronview Limited Liability Company
C45379 (base 16) Micronview Limited Liability Company
700 LAVACA, STE 1401 AUSTIN?TX 787015
AUSTIN 787015
US

80-4A-F2 (hex) Sonos, Inc.
804AF2 (base
16) Sonos, Inc.
614 Chapala St
Santa Barbara CA 93101
US

68-FC-B6 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
68FCB6 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

D8-31-2C (hex) zte corporation
D8312C (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

04-9F-15 (hex) Humane
049F15 (base 16) Humane
969 Folsom St
San Francisco CA 94062
US

38-38-A6 (hex) Arista Networks
3838A6 (base 16) Arista Networks
5453 Great America Parkway
Santa Clara CA 95054
US

50-23-6D (hex) Nintendo Co.,Ltd
50236D (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

A0-39-75 (hex) Leo Bodnar Electronics Ltd
A03975 (base 16) Leo Bodnar Electronics Ltd
Unit 8 New Rookery Farm
Silverstone NN12
8UP
GB

F4-27-56 (hex) DASAN Newtork Solutions
F42756 (base 16) DASAN Newtork Solutions
DASAN Tower, 49, Daewangpangyo-ro644Beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do, 13493 KOREA
Seongnam-si Gyeonggi-do 13493
KR

E0-A1-CE (hex) zte corporation
E0A1CE (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

24-A6-FA (hex) WEIFANG GOERTEK ELECTRONICS CO.,LTD
24A6FA (base 16) WEIFANG GOERTEK ELECTRONICS CO.,LTD
Gaoxin 2 Road, Free Trade Zone,Weifang,Shandong,261205,P.R.China
Weifang Shandong 261205
CN

74-93-DA (hex) ASKEY COMPUTER CORP
7493DA (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585
TW

C8-4A-A0 (hex) Sony Interactive Entertainment Inc.
C84AA0 (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

4C-96-8A (hex) Wacom Co.,Ltd.
4C968A
(base 16) Wacom Co.,Ltd.
Sumitomo Fudosan Shinjuku Grand Tower 31F,8-17-1
Nishi-shinjuku,Shinjuku-ku Tokyo 160-6131
JP

EC-83-B7 (hex) PUWELL CLOUD TECH LIMITED
EC83B7 (base 16) PUWELL CLOUD TECH LIMITED
Room 1702, 17/F, Hong Kong Trade Centre, Nos. 161-167 Des Voeux Road Central, Hong Kong
Hong Kong 999077
HK

0C-64-22 (hex) Beijing Wiseasy Technology Co.,Ltd.
0C6422 (base 16) Beijing Wiseasy Technology Co.,Ltd.
Room 01 , 27th Floor, No. 1 Building , No. 36 Xiaoyun Road, Chaoyang District
Beijing 100027
CN

C8-F2-B4 (hex) Guizhou Huaxin Information Technology Co., Ltd.
C8F2B4 (base 16) Guizhou Huaxin Information Technology Co., Ltd.
Building 1#, Electronic Information Industry Park of Machang Town, Guian New Area, Guizhou Province.
Gui'an New Area Guizhou Province 550025
CN

2C-75-CB (hex) Novitec Co., Ltd.
2C75CB (base 16) Novitec Co., Ltd.
30-18, Baekjegobun-ro 39-gil, Songpa-gu
Seoul
05609
KR

9C-55-8F (hex) Lockin Technology(Beijing) Co.,Ltd.
9C558F (base 16) Lockin Technology(Beijing) Co.,Ltd.
12 / F, building B1, No. 1 Zhongguancun, Beiqing Road
Beijing Haidian District 100011
CN

E8-26-8D (hex) Shenzhen SuperElectron Technology Co.,Ltd.
E8268D (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen Guangdong 518000
CN

6C-91-06 (hex) Katena Computing Technologies
6C9106 (base 16) Katena Computing Technologies
7244 Carrizo Drive

La Jolla CA 92037
US

6C-70-CB (hex) Samsung Electronics Co.,Ltd
6C70CB (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

90-7B-C6 (hex) Texas Instruments
907BC6 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

90-48-46 (hex) Texas Instruments
904846
(base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

C4-79-05 (hex) Zhejiang Uniview Technologies Co.,Ltd.
C47905 (base 16) Zhejiang Uniview Technologies Co.,Ltd.
No.88,Jiangling Road
Hangzhou Zhejiang,P.R.China 310051
CN

D4-DA-21 (hex) Beijing Xiaomi Mobile Software Co., Ltd
D4DA21 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

20-1A-94 (hex) Apple, Inc.
201A94 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B0-E5-EF (hex) Apple, Inc.
B0E5EF (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

28-8F-F6 (hex) Apple, Inc.
288FF6 (base 16) Apple, Inc.

1 Infinite Loop
Cupertino CA 95014
US

50-27-A9 (hex) eero inc.
5027A9 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

10-BB-F3 (hex) HUNAN FN-LINK
TECHNOLOGY LIMITED
10BBF3 (base 16) HUNAN FN-LINK TECHNOLOGY LIMITED
No.8, Litong Road, Liuyan Economic & Tec
Changsha HUNAN 410329
CN

D0-4E-99 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D04E99 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

20-A7-66 (hex) HUAWEI TECHNOLOGIES CO.,LTD
20A766 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

3C-05-8E (hex) HUAWEI TECHNOLOGIES CO.,LTD
3C058E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A4-11-BB (hex) Cisco Systems, Inc
A411BB (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

50-49-21 (hex) Cisco Systems, Inc
504921 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

44-B7-D0

(hex) Microchip Technology Inc.
44B7D0 (base 16) Microchip Technology Inc.
2355 W Chandler Blvd
Chandler AZ 85224-6199
US

E8-8F-6F (hex) TCT mobile ltd
E88F6F (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

84-FC-E6 (hex) Espressif Inc.
84FCE6 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

58-B9-65 (hex) Apple, Inc.
58B965 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

74-31-74 (hex) Apple, Inc.
743174 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-C7-25 (hex) Apple, Inc.
F0C725 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

78-4F-24 (hex) Taicang T&W Electronics
784F24 (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

7C-66-9A (hex) HUAWEI
TECHNOLOGIES CO.,LTD
7C669A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

CC-1E-97 (hex) HUAWEI TECHNOLOGIES CO.,LTD
CC1E97 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B4-E4-6B (hex) China Mobile IOT Company Limited
B4E46B (base 16) China Mobile IOT Company Limited
NO.8 Yu Ma Road, NanAn Area
Chongqing Chongqing 401336
CN

CC-CC-77 (hex) Zaram Technology. Inc.
CCCC77 (base 16) Zaram Technology. Inc.
2nd Fl, Fine Venture Building, 41, Seongnam-daero 925beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea [13496]
Bundang-gu 13496
KR

EC-DA-3B (hex) Espressif Inc.
ECDA3B (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

68-13-E2 (hex) Eltex Enterprise LTD
6813E2
(base 16) Eltex Enterprise LTD
Timiryazeva street, 17
Almaty 050040
KZ

64-44-D5 (hex) TD Tech
6444D5 (base 16) TD Tech
15F, building D, Yeqing building, No. 9, Wangjing North Road, Chaoyang District, Beijing
BeiJing 100102
CN

F8-AA-B3 (hex) DESSMANN (China) Machinery & Electronic Co., Ltd
F8AAB3 (base 16) DESSMANN (China) Machinery & Electronic Co., Ltd
1-3 Bld 1,NO.7 South Jianghui Rd,Binjiang District
Hangzhou Zhejiang 310051
CN

9C-54-67 (hex) Nokia
9C5467 (base 16) Nokia
600 March Road

Kanata Ontario K2K 2E6
CA

B4-61-42 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B46142 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

BC-B9-23 (hex) Alta Networks
BCB923 (base 16) Alta Networks
192 N. Old Highway 91
Hurricane UT 84737
US

8C-84-42 (hex) Cisco Systems, Inc
8C8442 (base 16) Cisco Systems,
Inc
80 West Tasman Drive
San Jose CA 94568
US

84-F1-17 (hex) Newseason
84F117 (base 16) Newseason
No. 1 Letang road, Tangxiayong gongyequ, Songgang street, Bao An district,
Shenzhen Guangdong 518000
CN

3C-06-64 (hex) Beijing Leagrid Technology Co.,Ltd.
3C0664 (base 16) Beijing Leagrid Technology Co.,Ltd.
No. 86-N2216, Wanxing Road, Changyang, Fangshan District, Beijing
Beijing Beijing 102488
CN

BC-52-74 (hex) Samsung Electronics Co.,Ltd
BC5274 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

BC-45-8C (hex) Shenzhen Topwise Communication Co.,Ltd
BC458C (base 16) Shenzhen Topwise Communication Co.,Ltd
5/F,Shengtang Building East Block,Tairan Road 9,Futian District,Shenzhen
Shenzhen 518042
CN

94-78-06 (hex) NINGBO SUNVOT TECHNOLOGY CO.,LTD
947806 (base 16) NINGBO SUNVOT TECHNOLOGY CO.,LTD

ROOM 305,NO.1,BUILDING 4,NO.79,XIAOGANG WEISAN
ROAD,XIAOGANG STREET,BEILUN DISTRICT
NingBo Zhejiang 315800
CN

98-CC-E4 (hex) Shenzhen Mindray Animal Medical Technology Co.,LTD
98CCE4 (base 16) Shenzhen Mindray Animal Medical Technology Co.,LTD
Tower 4, YESUN Intelligent Community 3 ,No.1301-88
Shenzhen Guanguang Road,Guanlan Street,Longhua District 518110
CN

90-09-DF (hex) Intel Corporate
9009DF (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

E4-0D-36 (hex) Intel Corporate
E40D36 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

14-9F-43 (hex) Cisco Meraki
149F43 (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco 94158
US

64-DB-38 (hex) zte corporation
64DB38 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

2C-08-B4 (hex) Huawei Device Co., Ltd.
2C08B4 (base 16) Huawei Device
Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

50-07-C3 (hex) Amazon Technologies Inc.
5007C3 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

C8-EF-BC (hex) Inspur Communication Technology Co.,Ltd.
C8EFBC (base 16) Inspur Communication Technology Co.,Ltd.
1306 Inspur street
JiNan ShanDong 250014
CN

84-8D-CE (hex) Ciena Corporation
848DCE (base 16) Ciena Corporation
7035 Ridge Road
Hanover MD 21076
US

E4-66-AB (hex) zte corporation
E466AB (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

A0-95-7F (hex) SERNET (SUZHOU) TECHNOLOGIES CORPORATION
A0957F (base 16) SERNET (SUZHOU) TECHNOLOGIES CORPORATION
NO.8 Tangzhuang Road,Suzhou Industrial Park,Su ZhouCity,JiangSu Province,China
Suzhou 215021
CN

64-13-5A (hex) Itectra A/S
64135A (base 16) Itectra
A/S
Sofiendalsvej 85
Aalborg SV 9200
DK

54-E1-B6 (hex) Renesas Electronics (Penang) Sdn. Bhd.
54E1B6 (base 16) Renesas Electronics (Penang) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

CC-77-C9 (hex) Fiberhome Telecommunication Technologies Co.,LTD
CC77C9 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

2C-57-2C (hex) Allwinner Technology Co., Ltd
2C572C (base 16) Allwinner Technology Co., Ltd
No.9 Technology Road 2, High-Tech Zone
Zhuhai Guangdong 519085
CN

EC-DF-C9 (hex) Hangzhou Microimage Software Co., Ltd
ECDFC9 (base 16) Hangzhou Microimage Software Co., Ltd
Room 313, Unit B, Building 2, 399 Danfeng Road, Binjiang District
Hangzhou Zhejiang 310051
CN

3C-E4-41 (hex) Amazon Technologies Inc.
3CE441 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

44-42-01 (hex) Amazon
Technologies Inc.
444201 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

E4-6D-7F (hex) Ciena Corporation
E46D7F (base 16) Ciena Corporation
7035 Ridge Road
Hanover MD 21076
US

80-27-6C (hex) Cisco Systems, Inc
80276C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

6C-4E-F6 (hex) Cisco Systems, Inc
6C4EF6 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

5C-27-63 (hex) Itibia Technologies
5C2763 (base 16) Itibia Technologies
1630, 3F, Phase I, International Science Park, No.1355 Jinjihu Avenue,
Suzhou Jiangsu 215021
CN

40-C1-F6 (hex) Shenzhen Jingxun Technology Co., Ltd.
40C1F6 (base 16) Shenzhen Jingxun Technology Co., Ltd.
3/F, A5 Building, Zhiyuan Community, No. 1001, Xueyuan Road, Nanshan District
Shenzhen 518071

CN

FC-22-D3 (hex) FDSYS
FC22D3 (base 16) FDSYS
12,
Seonyu-ro 43na-gil, Yeongdeungpo-gu
Seoul 07210
KR

B4-04-21 (hex) zte corporation
B40421 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

E8-43-68 (hex) zte corporation
E84368 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

4C-5C-DF (hex) ITEL MOBILE LIMITED
4C5CDF (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

C0-2E-26 (hex) iRhythm Technologies, Inc.
C02E26 (base 16) iRhythm Technologies, Inc.
11085 Knott Avenue
Cypress CA 90630
US

50-48-77 (hex) Honor Device Co., Ltd.
504877 (base 16) Honor Device Co., Ltd.
Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District
Shenzhen Guangdong 518040
CN

F8-5C-7E
(hex) Shenzhen Honesty Electronics Co.,Ltd.
F85C7E (base 16) Shenzhen Honesty Electronics Co.,Ltd.
5/F,Zone B,Chitat Industrial Park,West Longping Road, Longgang District,Shenzhen City
Shenzhen Guangdong 518172
CN

F8-24-E4 (hex) Beyonics Technology Electronic (Changshu) Co., Ltd

F824E4 (base 16) Beyonics Technology Electronic (Changshu) Co., Ltd
18 Yinhuan Road, Changshu New & Hi-tech Industrial Development Zone of Jiangsu
Changshu Jiangsu 215500
CN

1C-B8-BA (hex) XIAMEN LEELEN TECHNOLOGY CO., LTD
1CB8BA (base 16) XIAMEN LEELEN TECHNOLOGY CO., LTD
LEELEN building, No.780 TieShan Road, GuanKou Town , JiMei District
Xiamen Fujian 361021
CN

6C-7E-67 (hex) Apple, Inc.
6C7E67 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A4-C6-F0 (hex) Apple, Inc.
A4C6F0 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A8-8F-D9 (hex) Apple, Inc.
A88FD9
(base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

08-95-42 (hex) Apple, Inc.
089542 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E4-9C-67 (hex) Apple, Inc.
E49C67 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

64-E2-20 (hex) Qisda Corporation
64E220 (base 16) Qisda Corporation
No. 157, Shanying Rd., Gueishan Dist., Taoyuan City 33341, Taiwan
Taoyuan 33341
TW

F0-CC-E0 (hex) Shenzhen All-Smartlink Technology Co.,Ltd.
F0CCE0 (base 16) Shenzhen All-Smartlink Technology Co.,Ltd.
502, Building B, Guangming Industry Park, Minzhi, Shenzhen, Guangdong, China
Shenzhen Guangdong 518100
CN

44-E2-F1 (hex) NewRadio Technologies Co. , Ltd.
44E2F1 (base 16) NewRadio Technologies Co. , Ltd.
1408, Building 4, Tianan Yungu, Bantian
Shenzhen Guangdong 518129
CN

00-23-4B (hex) Inyuan Technology Inc.
00234B (base 16) Inyuan
Technology Inc.
No. 3, Singye St.,
Taoyuan County 33341
TW

00-17-6E (hex) DUCATI SISTEMI
00176E (base 16) DUCATI SISTEMI
VIA MARCO EMILIO LEPIDO, 182
BOLOGNA 40132
IT

1C-6A-76 (hex) Apple, Inc.
1C6A76 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

78-C1-AE (hex) Hangzhou Ezviz Software Co.,Ltd.
78C1AE (base 16) Hangzhou Ezviz Software Co.,Ltd.
Room 302, Unit B, Building 2, 399 Danfeng Road,Binjiang District
Hangzhou Zhejiang 310051
CN

30-C6-D7 (hex) New H3C Technologies Co., Ltd
30C6D7 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

D4-F2-42 (hex) Huawei Device Co., Ltd.
D4F242 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

00-30-AF (hex) Honeywell GmbH
0030AF (base 16) Honeywell GmbH
Boeblinger Str. 17
D-71098 Schoenaich

DE

E8-86-CF (hex) Nokia
E886CF (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

B0-78-39 (hex) GD Midea Air-Conditioning Equipment Co.,Ltd.
B07839 (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
Midea Global Innovation Center,Beijiao Town,Shunde
Foshan Guangdong 528311
CN

74-9E-75 (hex) Aruba, a Hewlett Packard Enterprise Company
749E75 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

D8-54-82 (hex) Oxit, LLC
D85482 (base 16) Oxit, LLC
3131 Westinghouse Blvd
Charlotte NC 28273
US

C4-EF-DA (hex) Honeywell
C4EFDA (base 16) Honeywell
9680 Old Bailes Rd, Fort Mill, SC 29707
Fort Mill SC 29707
US

D8-F5-07 (hex) Fiberhome Telecommunication Technologies Co.,LTD
D8F507 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

F4-1C-71 (hex) SHENZHEN
SANMU COMMUNICATION TECHNOLOGY CO., LTD
F41C71 (base 16) SHENZHEN SANMU COMMUNICATION TECHNOLOGY CO., LTD
17/F,Block 1A,Software Industry Base, XueFu Road,Nanshan District,

Shenzhen GuangDong 518100
CN

70-11-0E (hex) zte corporation
70110E (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

98-81-8A (hex) Huawei Device Co., Ltd.
98818A (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

A8-AA-7C (hex) Huawei Device Co., Ltd.
A8AA7C (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

B4-C2-F7 (hex) Huawei Device Co., Ltd.
B4C2F7 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

D4-AD-20 (hex) Jinan USR IOT Technology Limited
D4AD20 (base 16) Jinan
USR IOT Technology Limited
Floor F1 & Part of Floor F2, Building No. 9,Diya shuang chuang
Industrial Zone, No.2566,Century Main Road,Gaoxin District Jinan,Shandong China
Shandong Jinan 250014
CN

1C-FC-17 (hex) Cisco Systems, Inc
1CFC17 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E0-5A-1B (hex) Espressif Inc.
E05A1B (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

48-8A-E8 (hex) vivo Mobile Communication Co., Ltd.

488AE8 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

F4-05-95 (hex) Sagemcom Broadband SAS
F40595 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

10-AE-60 (hex) Amazon Technologies Inc.
10AE60 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

BC-10-7B
(hex) Samsung Electronics Co.,Ltd
BC107B (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

88-12-AC (hex) HUNAN FN-LINK TECHNOLOGY LIMITED
8812AC (base 16) HUNAN FN-LINK TECHNOLOGY LIMITED
No.8, Litong Road, Liuyan Economic & Tec
Changsha HUNAN 410329
CN

EC-74-D7 (hex) Grandstream Networks Inc
EC74D7 (base 16) Grandstream Networks Inc
126 brookline avenue
boston MA 02215
US

28-01-1C (hex) zte corporation
28011C (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

30-63-71 (hex) Shenzhenshi Xinzhongxin Technology Co.Ltd
306371 (base 16) Shenzhenshi Xinzhongxin Technology Co.Ltd
Block 3, Dong Huan Industrial Park, Sha Jing Town, Bao’an District, Shenzhen City, Guangdong Province, China
ShenZHEN GuangDong 518104
CN

98-A2-C0 (hex) Cisco Systems, Inc
98A2C0 (base 16) Cisco
Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-41-0E (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
00410E (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

FC-61-79 (hex) IEEE Registration Authority
FC6179 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

1C-32-83 (hex) COMTTI Intelligent Technology(Shenzhen) Co., Ltd.
1C3283 (base 16) COMTTI Intelligent Technology(Shenzhen) Co., Ltd.
Building 7/6 building 6 room 307, Area A, Baoan Internet Industrial Base, Mabu Community, Xixiang Street, Baoan District,
Shenzhen Guangdong 518000
CN

C8-84-8C (hex) Ruckus Wireless
C8848C (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

20-E6-DF (hex) eero inc.
20E6DF (base 16) eero inc.
660 3rd
Street
San Francisco CA 94107
US

F4-93-1C (hex) Universal Electronics, Inc.
F4931C (base 16) Universal Electronics, Inc.
201 E. Sandpointe Ave
Santa Ana CA 92707
US

08-B6-1F (hex) Espressif Inc.
08B61F (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area

Shanghai Shanghai 201203
CN

CC-BA-6F (hex) HUAWEI TECHNOLOGIES CO.,LTD
CCBA6F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

78-5C-5E (hex) HUAWEI TECHNOLOGIES CO.,LTD
785C5E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

3C-4E-56 (hex) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
3C4E56 (base 16) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
Unit East Block22-24/F,Skyworth semiconductor design Bldg., Gaoxin Ave.4.S.,Nanshan District,Shenzhen,China
SHENZHEN GUANGDONG
518057
CN

A0-8C-F2 (hex) YINUOLINK CO.,LTD
A08CF2 (base 16) YINUOLINK CO.,LTD
3F, Bldg 5, Gaoxinjian Industrial Park, Fuyuan 1st Road, Heping, Fuhai, Bao'an
Shenzhen Guangdong 518103
CN

40-47-5E (hex) eero inc.
40475E (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

5C-3E-1B (hex) Apple, Inc.
5C3E1B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

7C-2A-CA (hex) Apple, Inc.
7C2ACA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

28-8E-EC (hex) Apple, Inc.
288EEC (base 16) Apple, Inc.

1 Infinite Loop
Cupertino CA 95014
US

74-37-5F (hex) SERCOMM PHILIPPINES INC
74375F (base 16) SERCOMM PHILIPPINES INC
Lot 1 & 5, Phase 1, Filinvest Technology Park 1, Brgy. Punta, Calamba City
Calamba Lot 1
PH

C8-2A-F1 (hex) TCT mobile ltd
C82AF1 (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech
District
Hui Zhou Guang Dong 516006
CN

3C-E9-0E (hex) Espressif Inc.
3CE90E (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

A8-42-E3 (hex) Espressif Inc.
A842E3 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

D4-9B-74 (hex) Kinetic Technologies
D49B74 (base 16) Kinetic Technologies
6399 San Ignacio Ave #250
San Jose CA 95119
US

48-0E-EC (hex) TP-LINK TECHNOLOGIES CO.,LTD.
480EEC (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

50-F2-61 (hex) Photon Sail Technologies
50F261 (base 16) Photon Sail Technologies
8 Robinson Road, ASO Building
Singapore 048544
SG

94-4E-5B (hex) Ubee Interactive Co., Limited

944E5B (base 16) Ubee
Interactive Co., Limited
Flat/RM 1202, 12/F, AT Tower, 180 Electric Road
North Point 00000
HK

B4-BA-9D (hex) SKY UK LIMITED
B4BA9D (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

E0-86-14 (hex) Novatel Wireless Solutions, Inc.
E08614 (base 16) Novatel Wireless Solutions, Inc.
9710 Scranton Rd., Suite 200
San Diego CA 92121
US

40-F8-DF (hex) CANON INC.
40F8DF (base 16) CANON INC.
30-2 Shimomaruko 3-chome,
Ohta-ku Tokyo 146-8501
JP

0C-7F-ED (hex) IEEE Registration Authority
0C7FED (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

7C-67-AB (hex) Roku, Inc
7C67AB (base 16) Roku, Inc
1155 Coleman Ave
San Jose CA 95110
US

50-3E-AA (hex) TP-LINK TECHNOLOGIES CO.,LTD.
503EAA (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen
Guangdong 518057
CN

3C-FE-AC (hex) Cisco Systems, Inc
3CFEAC (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

04-A7-41 (hex) Cisco Systems, Inc
04A741 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A8-DE-68 (hex) Beijing Wide Technology Co.,Ltd
A8DE68 (base 16) Beijing Wide Technology Co.,Ltd
Floor7,Block B,Yicheng wealth center,No. 22,Ronghua Middle Road,Beijing Economic and Technological Development Zone
Beijing Beijing 100000
CN

F4-3B-D8 (hex) Intel Corporate
F43BD8 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

A0-88-9D (hex) Huawei Device Co., Ltd.
A0889D (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

6C-30-2A (hex) Texas Instruments
6C302A (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

74-46-B3
(hex) Texas Instruments
7446B3 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

34-3A-20 (hex) Aruba, a Hewlett Packard Enterprise Company
343A20 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

F4-6A-DD (hex) Liteon Technology Corporation
F46ADD (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road

New Taipei City Taiwan 23585
TW

18-E9-1D (hex) HUAWEI TECHNOLOGIES CO.,LTD
18E91D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

18-B1-85 (hex) Qiao Information Technology (Zhengzhou) Co., Ltd.
18B185 (base 16) Qiao Information Technology (Zhengzhou) Co., Ltd.
Room 405-1, Area A, 4th Floor, Wisdom Island Building, No.6, Zhongdao East, Zhengdong New District,
Zhengzhou Henan 450000
CN

7C-0C-92 (hex) Suzhou Mobydata Smart System
Co.,Ltd.
7C0C92 (base 16) Suzhou Mobydata Smart System Co.,Ltd.
3f,building E,Yida science Park,No.11 Jinpu Road,SIP,Suzhou,Jiangsu,China
Suzhou Jingsu 215000
CN

30-3F-5D (hex) PT HAN SUNG ELECTORONICS INDONESIA
303F5D (base 16) PT HAN SUNG ELECTORONICS INDONESIA
JL.PALEM 1 BLOK DS-6
KAWASAN INDUSTRI BATIK LIPPO CIKARANG, DESA CIBATU, KECAMATAN CIKARANG SELATAN
BEKASI JAWA BARAT 17550
ID

3C-69-D1 (hex) ADC Automotive Distance Control System GmbH
3C69D1 (base 16) ADC Automotive Distance Control System GmbH
Peter-Dornier Strasse 10
Lindau Bavaria 88131
DE

B0-FB-DD (hex) Shenzhen SuperElectron Technology Co.,Ltd.
B0FBDD (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen Guangdong 518000
CN

E0-9C-8D (hex) Seakeeper, Inc.
E09C8D (base 16) Seakeeper, Inc.
45310 Abell House Lane Suite
350
California MD 20619
US

30-7F-10 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
307F10 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

A4-90-CE (hex) vivo Mobile Communication Co., Ltd.
A490CE (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

48-70-6F (hex) HUAWEI TECHNOLOGIES CO.,LTD
48706F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

04-BA-D6 (hex) D-Link Corporation
04BAD6 (base 16) D-Link Corporation
No.289, Sinhu 3rd Rd., Neihu District,
Taipei City 114
TW

98-D7-42 (hex) Samsung Electronics Co.,Ltd
98D742 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

54-A9-C8 (hex) Home Control Singapore Pte Ltd
54A9C8 (base 16) Home
Control Singapore Pte Ltd
151 Lorong Chuan
Singapore 556741
SG

0C-97-5F (hex) Aruba, a Hewlett Packard Enterprise Company
0C975F (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

A0-B7-65 (hex) Espressif Inc.
A0B765 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

CC-DB-A7 (hex) Espressif Inc.
CCDBA7 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

C8-6C-20 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
C86C20 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

34-AC-11 (hex) China Mobile Group Device Co.,Ltd.
34AC11 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

44-32-C2
(hex) GOAL Co., Ltd.
4432C2 (base 16) GOAL Co., Ltd.
2-16-6 Mitsuyakita Yodogawa-ku
Osaka-shi Osaka-fu 532-0032
JP

70-66-2A (hex) Sony Interactive Entertainment Inc.
70662A (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

DC-71-DD (hex) AX Technologies
DC71DD (base 16) AX Technologies
1400 Broadway, 18th Floor
New York City NY 10018
US

20-64-DE (hex) Sunitec Enterprise Co.,Ltd
2064DE (base 16) Sunitec Enterprise Co.,Ltd
3F.,No.98-1,Mincyuan Rd.Sindian City
Taipei County 231 231141
CN

A4-0F-98 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
A40F98 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860

CN

74-B7-25 (hex) Huawei Device Co., Ltd.
74B725 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong
523808
CN

40-8E-DF (hex) Huawei Device Co., Ltd.
408EDF (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

D8-80-DC (hex) Huawei Device Co., Ltd.
D880DC (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

E8-B3-EF (hex) Fiberhome Telecommunication Technologies Co.,LTD
E8B3EF (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

5C-FB-3A (hex) CHONGQING FUGUI ELECTRONICS CO.,LTD.
5CFB3A (base 16) CHONGQING FUGUI ELECTRONICS CO.,LTD.
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

D0-4E-50 (hex) Mobiwire Mobiles (NingBo) Co., LTD
D04E50 (base 16) Mobiwire Mobiles (NingBo) Co., LTD
No.999 Dacheng East Road, Fenghua District, Ningbo City , Zhejiang Province, PRC
Ningbo Zhejiang
315500
CN

E8-F7-91 (hex) Xiaomi Communications Co Ltd
E8F791 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

F4-6C-68 (hex) Wistron Neweb Corporation
F46C68 (base 16) Wistron Neweb Corporation

No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu R.O.C. 308
TW

84-93-B2 (hex) zte corporation
8493B2 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

B4-9F-4D (hex) Fiberhome Telecommunication Technologies Co.,LTD
B49F4D (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

E8-3A-4B (hex) China Mobile Group Device Co.,Ltd.
E83A4B (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

60-E9-AA (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE.
LTD.
60E9AA (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

24-0F-5E (hex) Shenzhen z-router Technology Co., Ltd
240F5E (base 16) Shenzhen z-router Technology Co., Ltd
406,Block A,Taojindi Building ,Tenglong Road,Longhua New District,
Shenzhen GuangDong 518000
CN

00-0C-06 (hex) Nixvue Systems Pte Ltd
000C06 (base 16) Nixvue Systems Pte Ltd
30 Loyang Way, #07-02
Singapore Singapore S508769
SG

18-FD-74 (hex) Routerboard.com
18FD74 (base 16) Routerboard.com
Mikrotikls SIA
Riga Riga LV1009
LV

6C-97-6D (hex) Motorola Mobility LLC, a Lenovo Company

6C976D (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

64-11-A4 (hex) Motorola Mobility LLC, a Lenovo Company
6411A4 (base 16) Motorola Mobility
LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

18-86-3A (hex) DIGITAL ART SYSTEM
18863A (base 16) DIGITAL ART SYSTEM
838 rue de l'Aiguelongue
Montpellier Etat 34090
FR

C8-D6-B7 (hex) Solidigm Technology
C8D6B7 (base 16) Solidigm Technology
1921 Corporate Center Circle, Suite 3B
Longmont CO 80501
US

F0-87-7F (hex) Magnetar Technology Shenzhen Co., LTD.
F0877F (base 16) Magnetar Technology Shenzhen Co., LTD.
Room211, Building1, No.26 Puzai Road, Pingdi Longgang
Shenzhen GUANGDONG 518117
CN

00-0E-DB (hex) XiNCOM Corp.
000EDB (base 16) XiNCOM Corp.
2840 Industrial Ave.
Hubbard OR 97032
US

40-D9-5A (hex) AMPAK Technology,Inc.
40D95A (base 16) AMPAK Technology,Inc.
3F, No.15-1 Zhonghua Road, Hsinchu Industrail Park, Hukou,
Hsinchu Hsinchu,Taiwan R.O.C. 30352
TW

4C-D0-DD (hex) HUAWEI TECHNOLOGIES CO.,LTD
4CD0DD (base 16) HUAWEI TECHNOLOGIES
CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

78-66-9D (hex) Hui Zhou Gaoshengda Technology Co.,LTD
78669D (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.2, Jin-da Road, Huinan High-tech Industrial Park, Hui-ao Avenue
Huizhou Guangdong 516025
CN

48-46-8D (hex) Zepcam B.V.
48468D (base 16) Zepcam B.V.
Delftechpark, 17-19
Delft 2628 XJ
NL

90-49-92 (hex) YSTen Technology Co.,Ltd
904992 (base 16) YSTen Technology Co.,Ltd
Room 1715,17/F North Star Times Tower,Chaoyang District,Beijing.
Beijing 100101
CN

3C-CE-0D (hex) Shenzhen juduoping Technology Co.,Ltd
3CCE0D (base 16) Shenzhen juduoping Technology Co.,Ltd
Baoan Xin'an Streat
Shenzhen 002052
CN

D0-49-7C (hex) OnePlus Technology (Shenzhen) Co., Ltd
D0497C (base 16) OnePlus Technology (Shenzhen) Co., Ltd
18C02, 18C03, 18C04 ,18C05,TAIRAN BUILDING,
Shenzhen
Guangdong 518000
CN

74-D4-DD (hex) Quanta Computer Inc.
74D4DD (base 16) Quanta Computer Inc.
No. 211, Wenhua 2nd Rd., Guishan Dist.
Taoyuan City Taiwan 33377
TW

E4-90-2A (hex) HUAWEI TECHNOLOGIES CO.,LTD
E4902A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

90-5E-44 (hex) HUAWEI TECHNOLOGIES CO.,LTD
905E44 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808

CN

10-F0-68 (hex) Ruckus Wireless
10F068 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

AC-29-29 (hex) Infinix mobility limited
AC2929 (base 16) Infinix mobility limited
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
HongKong HongKong 999077
HK

50-E6-36 (hex) AVM Audiovisuelles Marketing und Computersysteme GmbH
50E636
(base 16) AVM Audiovisuelles Marketing und Computersysteme GmbH
Alt-Moabit 95
Berlin Berlin 10559
DE

7C-E1-52 (hex) THE GOODYEAR TIRE & RUBBER COMPANY
7CE152 (base 16) THE GOODYEAR TIRE & RUBBER COMPANY
200 Innovation Way
Akron OH 44316
US

78-20-BD (hex) Polysense (Beijing) Technologies Co. Ltd
7820BD (base 16) Polysense (Beijing) Technologies Co. Ltd
9 Shangdi 3rd Street, D508B3/5(4)F Bldg D, Haidian Dist.
Beijing 100085
CN

68-CE-4E (hex) L-3 Communications Infrared Products
68CE4E (base 16) L-3 Communications Infrared Products
3414 Herrmann Drive
Garland TX 75043
US

00-E5-F1 (hex) BUFFALO.INC
00E5F1 (base 16) BUFFALO.INC
AKAMONDORI Bld.,30-20,Ohsu 3-chome,Naka-ku
Nagoya Aichi Pref. 460-8315
JP

34-EE-2A (hex) ConMet
34EE2A (base 16) ConMet

5701 SE Columbia Way
Vancouver WA 98661
US

F0-4D-D4 (hex) Sagemcom Broadband SAS
F04DD4 (base 16) Sagemcom
Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

68-4E-05 (hex) HUNAN FN-LINK TECHNOLOGY LIMITED
684E05 (base 16) HUNAN FN-LINK TECHNOLOGY LIMITED
No.8, Litong Road, Liuyan Economic & Tec
Changsha HUNAN 410329
CN

04-99-BB (hex) Apple, Inc.
0499BB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

EC-21-25 (hex) Toshiba Corp.
EC2125 (base 16) Toshiba Corp.
1-1 Shibaura 1-Chome, Minato-Ku
Tokyo 105-8001
JP

5C-1B-F4 (hex) Apple, Inc.
5C1BF4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A8-51-AB (hex) Apple, Inc.
A851AB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

0C-7F-B2 (hex) ARRIS Group, Inc.
0C7FB2 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

50-39-2F (hex) INGRAM MICRO SERVICES

50392F (base 16) INGRAM MICRO SERVICES
100
CHEMIN DE BAILLOT
MONTAUBAN 82000
FR

FC-84-17 (hex) Honor Device Co., Ltd.
FC8417 (base 16) Honor Device Co., Ltd.
Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District
Shenzhen Guangdong 518040
CN

2C-A7-9E (hex) HUAWEI TECHNOLOGIES CO.,LTD
2CA79E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

10-24-07 (hex) HUAWEI TECHNOLOGIES CO.,LTD
102407 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

74-D9-EB (hex) Petabit Scale, Inc.
74D9EB (base 16) Petabit Scale, Inc.
5814 Lonetree Blvd, Ste 200
Rocklin CA 95765
US

28-CD-C1 (hex) Raspberry Pi Trading Ltd
28CDC1 (base 16) Raspberry Pi Trading Ltd
Maurice Wilkes Building, Cowley Road
Cambridge CB4 0DS
GB

C4-DE-E2 (hex) Espressif
Inc.
C4DEE2 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

68-B6-B3 (hex) Espressif Inc.
68B6B3 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203

CN

FC-A0-5A (hex) Oray.com co., LTD.
FCA05A (base 16) Oray.com co., LTD.
8008Rm, building No.1 GuoDing d. Yangpu District
Shanghai Shanghai 200433
CN

90-48-6C (hex) Ring LLC
90486C (base 16) Ring LLC
1523 26th St
Santa Monica CA 90404
US

C0-EE-40 (hex) Laird Connectivity
C0EE40 (base 16) Laird Connectivity
50 South Main St
Akron 44308
US

30-04-5C (hex) Shenzhen SuperElectron Technology Co.,Ltd.
30045C (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen Guangdong 518000
CN

90-79-CF
(hex) zte corporation
9079CF (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

8C-1E-80 (hex) Cisco Systems, Inc
8C1E80 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A4-F9-33 (hex) Intel Corporate
A4F933 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

10-F6-0A (hex) Intel Corporate
10F60A (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3

Kulim Kedah 09000
MY

70-D8-23 (hex) Intel Corporate
70D823 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

3C-46-45 (hex) Shanghai Infinity Wireless Technologies Co.,Ltd.
3C4645 (base 16) Shanghai Infinity Wireless Technologies Co.,Ltd.
Room 522, Building A, No.1687 Changyang Road, Yangpu District, Shanghai
Shanghai Shanghai 200082
CN

88-8F-A4 (hex) Huawei Device Co., Ltd.
888FA4
(base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

50-68-AC (hex) Huawei Device Co., Ltd.
5068AC (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

AC-B5-66 (hex) Renesas Electronics (Penang) Sdn. Bhd.
ACB566 (base 16) Renesas Electronics (Penang) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

38-1F-26 (hex) IEEE Registration Authority
381F26 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

30-43-D7 (hex) IEEE Registration Authority
3043D7 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

B4-A7-C6 (hex) SERVERCOM (INDIA) PRIVATE LIMITED
B4A7C6 (base 16) SERVERCOM (INDIA) PRIVATE LIMITED

E-43/1 OKHLA INDUSTRIAL AREA PHASE-II NEW DELHI SOUTH DELHI
NEW DELHI NA
IN

80-C3-BA (hex) Sonova
Consumer Hearing GmbH
80C3BA (base 16) Sonova Consumer Hearing GmbH
Am Labor 1
Wedemark Niedersachsen 30900
DE

48-7E-48 (hex) Earda Technologies co Ltd
487E48 (base 16) Earda Technologies co Ltd
Block A,Lianfeng Creative Park, #2 Jisheng Rd., Nansha District
Guangzhou Guangdong 511455
CN

E8-4D-EC (hex) Xerox Corporation
E84DEC (base 16) Xerox Corporation
800 Phillips Rd
Webster NY 14450
US

C8-B8-2F (hex) eero inc.
C8B82F (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

A4-1E-E1 (hex) Taicang T&W Electronics
A41EE1 (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

E8-FB-1C (hex) AzureWave Technology Inc.
E8FB1C (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

54-78-C9 (hex) AMPAK Technology,Inc.
5478C9 (base 16) AMPAK Technology,Inc.
3F, No.15-1 Zhonghua
Road, Hsinchu Industrail Park, Hukou,
Hsinchu Hsinchu,Taiwan R.O.C. 30352
TW

28-6B-35 (hex) Intel Corporate
286B35 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

40-35-E6 (hex) Samsung Electronics Co.,Ltd
4035E6 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D0-A4-6F (hex) China Dragon Technology Limited
D0A46F (base 16) China Dragon Technology Limited
B4 Bldg.Haoshan 1st Industry Park,
Shenzhen Guangdong 518104
CN

2C-60-CD (hex) NR ELECTRIC CO., LTD
2C60CD (base 16) NR ELECTRIC CO., LTD
69,Suyuan Avenue
Nanjing Jiangsu 211102
CN

00-60-E2 (hex) QUEST ENGINEERING & DEVELOPMENT
0060E2 (base 16) QUEST ENGINEERING & DEVELOPMENT
1345 EAST ROCK WREN ROAD
PHOENIX AZ 85048
US

C4-DF-39 (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
C4DF39 (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

CC-60-C8 (hex) Microsoft Corporation
CC60C8 (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

FC-10-1A (hex) Palo Alto Networks
FC101A (base 16) Palo Alto Networks
3000 Tannery Way
Santa Clara CA 95054
US

6C-AE-E3 (hex) Nokia
6CAEE3 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

0C-AC-8A (hex) Sagemcom Broadband SAS
0CAC8A (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

80-97-33 (hex) Shenzhen Elebao Technology Co., Ltd
809733 (base 16) Shenzhen Elebao Technology Co., Ltd
F/6, Tower A, Zhihuichuangxin Center Bldg,Qianjin Road, XixiangTown, Bao'an District
shenzhen GUANGDONG 518126
CN

00-40-5F (hex) AFE COMPUTERS LTD.
00405F (base 16) AFE COMPUTERS LTD.
62 ANCHORAGE
ROAD
UNITED KINGDOM
GB

00-EB-D8 (hex) MERCUSYS TECHNOLOGIES CO., LTD.
00EBD8 (base 16) MERCUSYS TECHNOLOGIES CO., LTD.
3F,Zone B,Building R1,High-Tech Industrial Village,No.023 High-Tech South 4 Road,Nanshan,Shenzhen
Shenzhen Guangdong 518057
CN

74-04-F1 (hex) Intel Corporate
7404F1 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-A2-65 (hex) M2Motive Technology Inc.
00A265 (base 16) M2Motive Technology Inc.
Room 402,No. 125 North Jiangsu Road, Changning District
Shanghai Shanghai 200042
CN

F4-6D-2F (hex) TP-LINK TECHNOLOGIES CO.,LTD.
F46D2F (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057

CN

10-54-D2 (hex) IEEE Registration Authority
1054D2 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

B8-5D-C3
(hex) HUAWEI TECHNOLOGIES CO.,LTD
B85DC3 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B4-3A-E2 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B43AE2 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F0-C8-B5 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F0C8B5 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D8-36-5F (hex) Intelbras
D8365F (base 16) Intelbras
BR 101, km 210, S/N°
São José Santa Catarina 88104800
BR

DC-FE-23 (hex) Murata Manufacturing Co., Ltd.
DCFE23 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

34-73-79 (hex) xFusion Digital Technologies Co., Limited
347379 (base 16) xFusion Digital Technologies Co., Limited
9th
Floor, Building 1, Zensun Boya Square, Longzihu Wisdom Island, Zhengdong New District
Zhengzhou Henan 450000
CN

D8-3D-CC (hex) shenzhen UDD Technologies,co.,Ltd
D83DCC (base 16) shenzhen UDD Technologies,co.,Ltd

Unit D, 6th Floor, Jialitai Bldg., No.45 Yanshan Road, Shekou, Nanshan District, Shenzhen, China
shenzhen guangdong 51800
CN

AC-80-AE (hex) Fiberhome Telecommunication Technologies Co.,LTD
AC80AE (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

BC-60-6B (hex) Shanghai Baud Data Communication Co.,Ltd.
BC606B (base 16) Shanghai Baud Data Communication Co.,Ltd.
NO.123 JULI RD
PUDONG ZHANGJIANG HIGH-TECH PARK SHANGHAI 201203
CN

04-17-B6 (hex) Smart Innovation LLC
0417B6 (base 16) Smart Innovation LLC
7F,Tower B,Jianxing
ShenZhen GuangZhou 518055
CN

E8-C7-CF (hex) Wistron Neweb Corporation
E8C7CF (base 16) Wistron
Neweb Corporation
No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu R.O.C. 308
TW

CC-5C-61 (hex) Huawei Device Co., Ltd.
CC5C61 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

1C-F4-2B (hex) Huawei Device Co., Ltd.
1CF42B (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

6C-51-BF (hex) Huawei Device Co., Ltd.
6C51BF (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

6C-8D-77 (hex) Cisco Systems, Inc

6C8D77 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

74-11-B2 (hex) Cisco Systems, Inc
7411B2 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

04-E6-9E (hex) ZHONGGUANCUN XINHAIZEYOU TECHNOLOGY CO.,LTD
04E69E (base 16) ZHONGGUANCUN XINHAIZEYOU
TECHNOLOGY CO.,LTD
13th Floor,Unit3,Building2,IC Park,NO.9 FengHao East Road, Haidian District
Beijing Beijing 100094
CN

00-19-8E (hex) Demant A/S
00198E (base 16) Demant A/S
Kongebakken 9
Smørum 2765
DK

60-FB-00 (hex) SHENZHEN BILIAN ELECTRONIC CO.LTD
60FB00 (base 16) SHENZHEN BILIAN ELECTRONIC CO.LTD
NO.268? Fuqian Rd, Jutang community, Guanlan Town, Longhua New district
shenzhen guangdong 518000
CN

D0-92-00 (hex) FiRa Consortium
D09200 (base 16) FiRa Consortium
3855 SW 153RD Drive
Beaverton OR 97003
US

E8-93-F3 (hex) Graphiant Inc
E893F3 (base 16) Graphiant Inc
760 Navajo Way
Fremont CA 94539
US

7C-C1-80 (hex) Apple, Inc.
7CC180 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

28-02-44 (hex) Apple, Inc.
280244 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E8-5F-02 (hex) Apple, Inc.
E85F02 (base 16) Apple,
Inc.
1 Infinite Loop
Cupertino CA 95014
US

BC-DF-58 (hex) Google, Inc.
BCDF58 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

2C-30-1A (hex) Technicolor CH USA Inc for Telus
2C301A (base 16) Technicolor CH USA Inc for Telus
4855 Peachtree Industrial Blvd, #200
Norcross GA 30092
US

C8-14-B4 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
C814B4 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

C0-49-EF (hex) Espressif Inc.
C049EF (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

E4-2B-79 (hex) Nokia
E42B79 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

EC-E7-A7 (hex) Intel Corporate
ECE7A7 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah

09000
MY

94-B5-55 (hex) Espressif Inc.
94B555 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

74-F2-FA (hex) Xiaomi Communications Co Ltd
74F2FA (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

5C-84-3C (hex) Sony Interactive Entertainment Inc.
5C843C (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

E8-AE-C5 (hex) Arista Networks
E8AEC5 (base 16) Arista Networks
5453 Great America Parkway
Santa Clara CA 95054
US

58-8F-CF (hex) Hangzhou Ezviz Software Co.,Ltd.
588FCF (base 16) Hangzhou Ezviz Software Co.,Ltd.
Room 302, Unit B, Building 2, 399 Danfeng Road,Binjiang District
Hangzhou Zhejiang 310051
CN

40-17-F6 (hex) TKH SECURITY,S.L.U.
4017F6 (base 16) TKH SECURITY,S.L.U.
Calle Paquiro, 32
Málaga
Málaga 29006
ES

3C-E9-F7 (hex) Intel Corporate
3CE9F7 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

18-5E-0B (hex) zte corporation
185E0B (base 16) zte corporation

12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

D0-BB-61 (hex) zte corporation
D0BB61 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

60-A6-C5 (hex) HUAWEI TECHNOLOGIES CO.,LTD
60A6C5 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

20-8C-86 (hex) HUAWEI TECHNOLOGIES CO.,LTD
208C86 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F0-A9-51 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F0A951 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2
Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-40-58 (hex) UKG
004058 (base 16) UKG
900 Chelmsford Street
Lowell MA 01851
US

F4-CE-23 (hex) Intel Corporate
F4CE23 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

A8-4F-B1 (hex) Cisco Systems, Inc
A84FB1 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

54-AC-FC (hex) LIZN ApS

54ACFC (base 16) LIZN ApS
Stejlbjergparken 37
Vejle 7120
DK

4C-72-74 (hex) Shenzhenshi Xinzhongxin Technology Co.Ltd
4C7274 (base 16) Shenzhenshi Xinzhongxin Technology Co.Ltd
Block 3, Dong Huan Industrial Park, Sha Jing Town, Bao'an District, Shenzhen City, Guangdong Province, China
ShenZHEN GuangDong 518104
CN

A4-39-B3 (hex) Beijing Xiaomi Mobile Software Co., Ltd
A439B3 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building,
68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

6C-FF-CE (hex) Sagemcom Broadband SAS
6CFFCE (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

C8-99-B2 (hex) Arcadyan Corporation
C899B2 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

AC-73-52 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
AC7352 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

50-C2-75 (hex) GN Audio A/S
50C275 (base 16) GN Audio A/S
Lautrupbjerg 7
Ballerup DK-2750
DK

C8-72-7E (hex) Nokia
C8727E (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

0C-B8-15 (hex) Espressif Inc.
0CB815 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

64-25-EC
(hex) guangdong kesheng zhixun technology
6425EC (base 16) guangdong kesheng zhixun technology
1603?building B,kupai building,high-tech Industrial park,Nanshan district,shengzhen
shengzhen guangdong 518000
CN

00-E0-CD (hex) SAAB SENSIS CORPORATION
00E0CD (base 16) SAAB SENSIS CORPORATION
85 Collamer Crossings
East Syracuse NY 13057
US

80-0C-F9 (hex) Amazon Technologies Inc.
800CF9 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

A0-92-08 (hex) Tuya Smart Inc.
A09208 (base 16) Tuya Smart Inc.
160 Greentree Drive, Suite 101
Dover DE 19904
US

F4-B8-98 (hex) Texas Instruments
F4B898 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

B0-D2-78 (hex) Texas Instruments
B0D278 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

00-24-B6 (hex) Seagate Technology
0024B6 (base 16) Seagate Technology
1280
Disc Drive
Shakopee MN 55379

US

64-D6-9A (hex) Intel Corporate
64D69A (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

E0-A2-5A (hex) Shanghai Mo xiang Network Technology CO.,ltd
E0A25A (base 16) Shanghai Mo xiang Network Technology CO.,ltd
Room#418-421, ShaHeXiLi, 2-2 XiLi North Road, LiCheng Community, Xili Street, NanShan District, Shenzhen City
Shenzhen Guangdong 518071
CN

E4-84-D3 (hex) Xiaomi Communications Co Ltd
E484D3 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

04-10-6B (hex) Xiaomi Communications Co Ltd
04106B (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

04-CC-BC (hex) HUAWEI TECHNOLOGIES CO.,LTD
04CCBC (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan
Lake Technology Park
Dongguan 523808
CN

1C-E5-04 (hex) HUAWEI TECHNOLOGIES CO.,LTD
1CE504 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

2C-0B-AB (hex) HUAWEI TECHNOLOGIES CO.,LTD
2C0BAB (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

94-D2-BC (hex) HUAWEI TECHNOLOGIES CO.,LTD
94D2BC (base 16) HUAWEI TECHNOLOGIES CO.,LTD

No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

28-87-BA (hex) TP-Link Corporation Limited
2887BA (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

34-60-F9 (hex) TP-Link Corporation Limited
3460F9 (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui
Kowloon 999077
HK

68-4A-E9 (hex) Samsung Electronics Co.,Ltd
684AE9 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

20-1F-54 (hex) Raisecom Technology CO., LTD
201F54 (base 16) Raisecom Technology CO., LTD
No. 11, East Area, No. 10 Block, East Xibeiwang Road
Beijing 100094
CN

7C-97-E1 (hex) Huawei Device Co., Ltd.
7C97E1 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C8-3E-9E (hex) Huawei Device Co., Ltd.
C83E9E (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

E0-D0-45 (hex) Intel Corporate
E0D045 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

60-DD-70 (hex) Apple, Inc.

60DD70 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

98-A5-F9 (hex) Apple, Inc.
98A5F9
(base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

EC-A9-07 (hex) Apple, Inc.
ECA907 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

34-CE-69 (hex) Nokia Solutions and Networks GmbH & Co. KG
34CE69 (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541
DE

94-0D-2D (hex) Universal Electronics, Inc.
940D2D (base 16) Universal Electronics, Inc.
201 E. Sandpointe Ave
Santa Ana CA 92707
US

A8-8C-3E (hex) Microsoft Corporation
A88C3E (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

4C-06-B7 (hex) ProDVX Europe B.V.
4C06B7 (base 16) ProDVX Europe B.V.
Europalaan 10
Den Bosch NB 5235BC
NL

60-57-47 (hex) CIG SHANGHAI CO LTD
605747 (base 16) CIG SHANGHAI CO LTD
5th Floor, Building 8 No 2388 Chenhang Road
SHANGHAI 201114
CN

F8-25-51 (hex) Seiko Epson Corporation
F82551
(base 16) Seiko Epson Corporation
2070 Kotobuki Koaka
Matsumoto-shi Nagano-ken 399-8702
JP

74-53-A8 (hex) ACL Airshop BV
7453A8 (base 16) ACL Airshop BV
Kantoorweg 7
West Knollendam NH 1525 RJ
NL

14-7E-A1 (hex) Britania Eletrônicos S.A.
147EA1 (base 16) Britania Eletrônicos S.A.
Dona Francisca St. 12340, Pirabeiraba
Joinville Santa Catarina 89239-270
BR

E8-16-56 (hex) Hangzhou BroadLink Technology Co.,Ltd
E81656 (base 16) Hangzhou BroadLink Technology Co.,Ltd
Room 101,1/F,Unit C,Building 1,No.57 Jiang'er Road,Changhe Street,Binjiang District,Hangzhou,Zhejiang,P.R.China
Hangzhou Zhejiang 310052
CN

14-9E-5D (hex) JSC IB Reform
149E5D (base 16) JSC IB Reform
Varshavskoe shosse, 125, bld. 1, s. 3, fl. 6, room 10/23
Moscow 117587
RU

70-B8-F6 (hex) Espressif Inc.
70B8F6 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai
Shanghai 201203
CN

BC-47-60 (hex) Samsung Electronics Co.,Ltd
BC4760 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

2C-4D-DE (hex) TECNO MOBILE LIMITED
2C4DDE (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON

ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

30-3F-7B (hex) Shenzhen YOUHUA Technology Co., Ltd
303F7B (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

14-EB-B6 (hex) TP-Link Corporation Limited
14EBB6 (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

54-AF-97 (hex) TP-Link Corporation Limited
54AF97 (base 16) TP-Link Corporation Limited
Room 901,9/F.New
East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

54-CF-8D (hex) HUAWEI TECHNOLOGIES CO.,LTD
54CF8D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

0C-B7-89 (hex) Honor Device Co., Ltd.
0CB789 (base 16) Honor Device Co., Ltd.
A1701, Block AB, Building 1, Tianan Yungu Phase I, Gangtou Community, Bantian Street
Shenzhen Guangdong 518129
CN

F0-B0-40 (hex) HUNAN FN-LINK TECHNOLOGY LIMITED
F0B040 (base 16) HUNAN FN-LINK TECHNOLOGY LIMITED
No.8, Litong Road, Liuyan Economic & Tec
Changsha HUNAN 410329
CN

48-2F-6B (hex) Aruba, a Hewlett Packard Enterprise Company
482F6B (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

D4-88-66 (hex) HUAWEI TECHNOLOGIES CO.,LTD

D48866 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan
Lake Technology Park
Dongguan 523808
CN

D4-84-57 (hex) GD Midea Air-Conditioning Equipment Co.,Ltd.
D48457 (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
Midea Global Innovation Center,Beijiao Town,Shunde
Foshan Guangdong 528311
CN

FC-02-96 (hex) Xiaomi Communications Co Ltd
FC0296 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

68-BE-49 (hex) Nebula Matrix
68BE49 (base 16) Nebula Matrix
24/F Ahoke Aurora Plaza, Zhongmei RD, Longhua Dist.
Shenzhen Guangdong 518000
CN

94-F8-27 (hex) Shanghai Imilab Technology Co.Ltd
94F827 (base 16) Shanghai Imilab Technology Co.Ltd
29F, A Tower, New Caohejing International Business Center, Guiping Road, Xuhui District
Shanghai Shanghai 200000
CN

DC-A6-33 (hex) ARRIS Group, Inc.
DCA633 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

D8-CF-BF
(hex) Motorola Mobility LLC, a Lenovo Company
D8CFBF (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

18-45-B3 (hex) IEEE Registration Authority
1845B3 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

60-E8-5B (hex) Texas Instruments
60E85B (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

F8-63-D9 (hex) ARRIS Group, Inc.
F863D9 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

A4-05-D6 (hex) ARRIS Group, Inc.
A405D6 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

C4-48-FA (hex) Taicang T&W Electronics
C448FA (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

A8-98-92 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
A89892 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

E0-72-0A (hex) Shenzhen SuperElectron Technology Co.,Ltd.
E0720A (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen Guangdong 518000
CN

24-D9-04 (hex) Sichuan Changhong Network Technologies Co., Ltd.
24D904 (base 16) Sichuan Changhong Network Technologies Co., Ltd.
#35, East Mianxing Road, Hi-Tech Park
Mianyang Sichuan 621000
CN

48-3E-5E (hex) SERNET (SUZHOU) TECHNOLOGIES CORPORATION
483E5E (base 16) SERNET (SUZHOU) TECHNOLOGIES CORPORATION
NO.8 Tangzhuang Road,Suzhou Industrial Park,Su ZhouCity,JiangSu Province,China
Suzhou 215021

CN

50-EB-F6 (hex) ASUSTek COMPUTER INC.
50EBF6 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

60-FF-12 (hex) Samsung Electronics
Co.,Ltd
60FF12 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

24-C6-13 (hex) Samsung Electronics Co.,Ltd
24C613 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

94-E1-29 (hex) Samsung Electronics Co.,Ltd
94E129 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

28-04-C6 (hex) Wanan Hongsheng Electronic Co.Ltd
2804C6 (base 16) Wanan Hongsheng Electronic Co.Ltd
1st section of industrial pack,Wan'An County,Ji'An City,jiangxi province
Wanan China/jiangxi 343800
CN

C4-4F-96 (hex) Alps Alpine
C44F96 (base 16) Alps Alpine
20-1, Yoshima Industrial Park
Iwaki Fukushima 970-1192
JP

68-58-11 (hex) Fiberhome Telecommunication Technologies Co.,LTD
685811 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

B4-BA-02
(hex) Agatel Ltd
B4BA02 (base 16) Agatel Ltd

Apex House, Calthrope Road
Birmingham — B15 1TR
GB

D4-79-54 (hex) Huawei Device Co., Ltd.
D47954 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C8-39-AC (hex) Huawei Device Co., Ltd.
C839AC (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

14-55-94 (hex) Huawei Device Co., Ltd.
145594 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

08-C0-6C (hex) Huawei Device Co., Ltd.
08C06C (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

3C-45-7A (hex) SKY UK LIMITED
3C457A (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

90-27-59 (hex) Nanjing Jiahao Technology Co., Ltd.
902759
(base 16) Nanjing Jiahao Technology Co., Ltd.
Moling Industrial Park, Development Zone, Jiangning, Nanjing
Nanjing Jiangsu 211111
CN

84-BA-20 (hex) Silicon Laboratories
84BA20 (base 16) Silicon Laboratories
400 West Cesar Chavez Street
Austin TX 78701
US

00-3C-84 (hex) Silicon Laboratories

003C84 (base 16) Silicon Laboratories
400 West Cesar Chavez Street
Austin TX 78701
US

28-1D-21 (hex) IN ONE SMART TECHNOLOGY(H,K,)LIMITED
281D21 (base 16) IN ONE SMART TECHNOLOGY(H,K,)LIMITED
UNIT I 1/F MAU LAM COMM BLDG 16-18 MAU LAM ST JORDAN KL HK
HONGKONG 999077
HK

74-E3-36 (hex) FUJIAN STAR-NET COMMUNICATION CO.,LTD
74E336 (base 16) FUJIAN STAR-NET COMMUNICATION CO.,LTD
19-22# Building, Star-net Science Plaza, Juyuanzhou,
FUZHOU FUJIAN 350002
CN

C4-34-5B (hex) HUAWEI TECHNOLOGIES CO.,LTD
C4345B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake
Technology Park
Dongguan 523808
CN

B0-73-9C (hex) Amazon Technologies Inc.
B0739C (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

3C-21-9C (hex) Intel Corporate
3C219C (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

DC-62-94 (hex) Guangzhou Lango Electronics Technology Co.,Ltd.
DC6294 (base 16) Guangzhou Lango Electronics Technology Co.,Ltd.
Room 238, Room 406, No. 1, Yichuang Street, Huangpu District
Guangzhou Guangdong 510336
CN

34-98-B5 (hex) NETGEAR
3498B5 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

18-59-F5 (hex) Cisco Systems, Inc
1859F5 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

70-32-17 (hex) Intel Corporate
703217 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

38-94-61 (hex) Renesas Electronics (Penang) Sdn.
Bhd.
389461 (base 16) Renesas Electronics (Penang) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

48-55-19 (hex) Espressif Inc.
485519 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

5C-46-B0 (hex) SIMCom Wireless Solutions Limited
5C46B0 (base 16) SIMCom Wireless Solutions Limited
SIMCom Headquarters Building, Building 3, No. 289 Linhong Road, Changning District, Shanghai P.R. China
Shanghai 200335
CN

C0-2C-5C (hex) Apple, Inc.
C02C5C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

EC-42-69 (hex) HMD Global Oy
EC4269 (base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo 02600
FI

D4-57-63 (hex) Apple, Inc.
D45763 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

48-B9-C2 (hex) Teletics Inc.
48B9C2 (base 16) Teletics Inc.
103 Edgevalley Close NW
Calgary
AB T3A 5E9
CA

90-F3-B8 (hex) China Mobile Group Device Co.,Ltd.
90F3B8 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

38-56-3D (hex) Microsoft Corporation
38563D (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

28-93-7D (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
28937D (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

1C-73-E2 (hex) HUAWEI TECHNOLOGIES CO.,LTD
1C73E2 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

8C-83-E8 (hex) HUAWEI TECHNOLOGIES CO.,LTD
8C83E8 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

34-A5-B4 (hex) NAVTECH PTE LTD
34A5B4
(base 16) NAVTECH PTE LTD
101 CECIL STREET
SINGAPORE 437872
SG

E8-9F-6D (hex) Espressif Inc.
E89F6D (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area

Shanghai Shanghai 201203
CN

F8-29-C0 (hex) Availink, Inc.
F829C0 (base 16) Availink, Inc.
Scotia Centre P.O. Box 268GT,Grand Cayman, Cayman Islands
Grand Cayman Grand Cayman 999159
KY

24-B7-2A (hex) China Dragon Technology Limited
24B72A (base 16) China Dragon Technology Limited
B4 Bldg.Haoshan 1st Industry Park,
Shenzhen Guangdong 518104
CN

F8-FC-E1 (hex) Amazon Technologies Inc.
F8FCE1 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

64-57-E5 (hex) Beijing Royaltech Co.,Ltd
6457E5 (base 16) Beijing Royaltech Co.,Ltd
201, building 7, Boya CC4 courtyard, Life Science Park, Beiqing Road, Changping District, Beijing
Beijing 100000
CN

FC-9B-D4 (hex) EdgeQ
FC9BD4
(base 16) EdgeQ
2550 Great America Way, STE 325
Santa Clara CA 95054
US

14-57-90 (hex) Qingdao Haier Technology Co.,Ltd
145790 (base 16) Qingdao Haier Technology Co.,Ltd
Building A01,Haier Information Park, No.1 Haier Road,
Qingdao Shandong 266101
CN

40-5F-7D (hex) TCT mobile ltd
405F7D (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

98-6E-E8 (hex) IEEE Registration Authority
986EE8 (base 16) IEEE Registration Authority

445 Hoes Lane
Piscataway NJ 08554
US

D4-C3-B0 (hex) Gearlinx Pty Ltd
D4C3B0 (base 16) Gearlinx Pty Ltd
518 Haven Road, Haven Road
Upper Brookfield QLD 4069
AU

E0-70-EA (hex) HP Inc.
E070EA (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

08-B4-9D (hex) TECNO MOBILE LIMITED
08B49D (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE,
HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

04-D9-21 (hex) Occuspace
04D921 (base 16) Occuspace
302 Washington Street Suite 315
San Diego CA 92103
US

4C-03-4F (hex) Intel Corporate
4C034F (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

94-29-57 (hex) Airpo Networks Technology Co.,Ltd.
942957 (base 16) Airpo Networks Technology Co.,Ltd.
Room 209,Building 3, Jianda Industrial Park, Xin an San Lu, Baoan District,
shenzhen GuangDong 518000
CN

98-77-CB (hex) Vorteks ED
9877CB (base 16) Vorteks ED
Mirkovci, Street 2, number 142a
Skopje 1000
MK

C4-36-C0 (hex) BUFFALO.INC

C436C0 (base 16) BUFFALO.INC
AKAMONDORI Bld.,30-20,Ohsu 3-chome,Naka-ku
Nagoya Aichi Pref. 460-8315
JP

B8-8A-72 (hex) Renesas Electronics (Penang) Sdn. Bhd.
B88A72 (base 16) Renesas Electronics (Penang) Sdn. Bhd.
Phase
3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

88-D8-2E (hex) Intel Corporate
88D82E (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

50-54-7B (hex) Nanjing Qinheng Microelectronics Co., Ltd.
50547B (base 16) Nanjing Qinheng Microelectronics Co., Ltd.
No.18, Ningshuang Road
Nanjing Jiangsu 210012
CN

4C-EA-AE (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
4CEAAE (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

D4-1A-D1 (hex) Zyxel Communications Corporation
D41AD1 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

B8-45-F4 (hex) New H3C Technologies Co., Ltd
B845F4 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

EC-01-D5 (hex) Cisco Systems, Inc
EC01D5
(base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

2C-53-D7 (hex) Sonova AG
2C53D7 (base 16) Sonova AG
Laubisruetistrasse 28
Staefa 8712
CH

E8-97-9A (hex) Quectel Wireless Solutions Co.,Ltd.
E8979A (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

5C-A6-E6 (hex) TP-Link Corporation Limited
5CA6E6 (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

B4-B0-24 (hex) TP-Link Corporation Limited
B4B024 (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

18-F2-2C (hex) TP-LINK TECHNOLOGIES CO.,LTD.
18F22C (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology
Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

98-97-CC (hex) TP-LINK TECHNOLOGIES CO.,LTD.
9897CC (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

18-0E-AC (hex) SHENZHEN FAST TECHNOLOGIES CO.,LTD
180EAC (base 16) SHENZHEN FAST TECHNOLOGIES CO.,LTD
Room 202,Building No.5,Section 30,No.2 of Kefa Road,Nanshan District,Shenzhen,P.R.China
Shenzhen Guangdong 518057
CN

14-49-20 (hex) HUAWEI TECHNOLOGIES CO.,LTD
144920 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808

CN

DC-A7-82 (hex) HUAWEI TECHNOLOGIES CO.,LTD
DCA782 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

04-51-70 (hex) Zhongshan K-mate General Electronics Co.,Ltd
045170
(base 16) Zhongshan K-mate General Electronics Co.,Ltd
NO.2 ,5th Xinsheng Street,East Mu He Jing Road, Gangkou Town
Zhongshan Guangdong 528447
CN

38-45-54 (hex) Harman/Becker Automotive Systems GmbH
384554 (base 16) Harman/Becker Automotive Systems GmbH
Becker-Göring-Straße 16
Karlsbad Baden-Württemberg 76307
DE

3C-E4-B0 (hex) Texas Instruments
3CE4B0 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

E8-01-15 (hex) COOCAA Network Technology CO.,TD.
E80115 (base 16) COOCAA Network Technology CO.,TD.
306, east block, Skyworth semiconductor design building, 18 Gaoxin South 4th Road, Gaoxin community, Yuehai street, Nanshan District, Shenzhen
shenzhen 0755-27357001
CN

8C-EA-12 (hex) Shenzhen MiaoMing Intelligent Technology Co.,Ltd
8CEA12 (base 16) Shenzhen MiaoMing Intelligent Technology Co.,Ltd
Chudong science and technology park, 111 shaxin road, tangxia town,
dongguan
city guangdong province 523710
CN

C8-BD-4D (hex) Samsung Electronics Co.,Ltd
C8BD4D (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

88-81-B9 (hex) Huawei Device Co., Ltd.

8881B9 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

3C-38-F4 (hex) Sony Corporation
3C38F4 (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

0C-C4-13 (hex) Google, Inc.
0CC413 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

74-63-C2 (hex) Huawei Device Co., Ltd.
7463C2 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

D4-8F-A2 (hex) Huawei Device Co., Ltd.
D48FA2 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

2C-15-BF
(hex) Samsung Electronics Co.,Ltd
2C15BF (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

2C-B0-FD (hex) Shenzhen MiaoMing Intelligent Technology Co.,Ltd
2CB0FD (base 16) Shenzhen MiaoMing Intelligent Technology Co.,Ltd
Chudong science and technology park, 111 shaxin road, tangxia town,
dongguan city guangdong province 523710
CN

C4-FB-C8 (hex) Shenzhen Candour Co., Ltd.
C4FBC8 (base 16) Shenzhen Candour Co., Ltd.
Room 1501,East Building,Skyworth Semiconductor Building ,No.18,Gaoxin South 4th Road,Nanshan District
SHENZHEN GUANGDONG 518000
CN

2C-E0-32 (hex) TCL King Electrical Appliances(Huizhou)Co.,Ltd
2CE032 (base 16) TCL King Electrical Appliances(Huizhou)Co.,Ltd
B Area, 10th floor, TCL multimedia Building, TCL International E City, #1001 Zhonshanyuan road,Shenzhen
guangdong China 518058
CN

A0-D2-B1 (hex) Amazon Technologies Inc.
A0D2B1 (base 16) Amazon
Technologies Inc.
P.O Box 8102
Reno NV 89507
US

80-6D-71 (hex) Amazon Technologies Inc.
806D71 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

88-AC-9E (hex) Shenzhen YOUHUA Technology Co., Ltd
88AC9E (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

9C-36-F8 (hex) Hyundai Kefico
9C36F8 (base 16) Hyundai Kefico
102, Gosan-ro
Gunpo-si Gyeonggi-do 15849
KR

E0-B7-2E (hex) ShenZhen Qualmesh Technology Co.,Ltd.
E0B72E (base 16) ShenZhen Qualmesh Technology Co.,Ltd.
Room 03, 10th floor, building 1, kaidar group center building, 168 Tongsha Road, Xinwei community, Xili street, Nanshan District
Shenzhen Guangdong 518055
CN

08-16-05 (hex) Vodafone Italia S.p.A.
081605 (base 16) Vodafone Italia S.p.A.
Via Lorenteggio nr. 240
Milan Italy
20147
IT

1C-53-F9 (hex) Google, Inc.
1C53F9 (base 16) Google, Inc.
1600 Amphitheatre Parkway

Mountain View CA 94043
US

04-42-1A (hex) ASUSTek COMPUTER INC.
04421A (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

20-7C-14 (hex) Qotom
207C14 (base 16) Qotom
Huafeng Intelligence Valley, Hangcheng Street
Shenzhen GuangDong 518000
CN

B8-59-CE (hex) Earda Technologies co Ltd
B859CE (base 16) Earda Technologies co Ltd
Block A,Lianfeng Creative Park, #2 Jisheng Rd., Nansha District
Guangzhou Guangdong 511455
CN

10-00-20 (hex) Apple, Inc.
100020 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

94-64-24 (hex) Aruba, a Hewlett Packard Enterprise Company
946424 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

BC-1E-85 (hex) HUAWEI TECHNOLOGIES CO.,LTD
BC1E85
(base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B8-56-00 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B85600 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

30-5F-77 (hex) New H3C Technologies Co., Ltd
305F77 (base 16) New H3C Technologies Co., Ltd

466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

8C-7A-3D (hex) Xiaomi Communications Co Ltd
8C7A3D (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

98-7E-E3 (hex) vivo Mobile Communication Co., Ltd.
987EE3 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

8C-7A-AA (hex) Apple, Inc.
8C7AAA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

7C-24-99
(hex) Apple, Inc.
7C2499 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-0D-4E (hex) NDR Co.,LTD.
000D4E (base 16) NDR Co.,LTD.
Sumitomo seimei minatomachi MT BLDG
Osak Kinki 550-0015
JP

30-56-96 (hex) Infinix mobility limited
305696 (base 16) Infinix mobility limited
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
HongKong HongKong 999077
HK

7C-B0-73 (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
7CB073 (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

0C-E5-A3 (hex) SharkNinja
0CE5A3 (base 16) SharkNinja
85 Cude Ln
Madison TN 37115
US

34-31-7F (hex) Panasonic Appliances Company
34317F (base 16) Panasonic Appliances Company
2-3-1-2 Noji-higashi
Kusatsu City Shiga 525-8555
JP

40-91-51
(hex) Espressif Inc.
409151 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

B0-E9-FE (hex) Woan Technology (Shenzhen) Co., Ltd.
B0E9FE (base 16) Woan Technology (Shenzhen) Co., Ltd.
1-2F, Building B4, Yintian Industrial Zone, Yantian Community, Xixiang Street, Bao'an District, Shenzhen, Guangdong, P.R.China
Shenzhen Guangdong 518102
CN

C8-96-65 (hex) Microsoft Corporation
C89665 (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

CC-3F-8A (hex) KOMATSU LTD.
CC3F8A (base 16) KOMATSU LTD.
3-25-1, Shinomiya
Hiratsuka-Shi Kanagawa-Ken 254-8555
JP

EC-35-4D (hex) Wingtech Mobile Communications Co.,Ltd
EC354D (base 16) Wingtech Mobile Communications Co.,Ltd
No.777,Yazhong Road,Nanhu District
Jiaxing Zhejiang 314001
CN

7C-39-85 (hex) HUAWEI TECHNOLOGIES CO.,LTD
7C3985 (base 16) HUAWEI
TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park

Dongguan 523808
CN

00-BD-3E (hex) Vizio, Inc
00BD3E (base 16) Vizio, Inc
39 Tesla
Irvine CA 92618
US

18-F8-7F (hex) Wha Yu Industrial Co., Ltd.
18F87F (base 16) Wha Yu Industrial Co., Ltd.
No.326, Sec 2. Kung Tao 5 Road
HsinChu City Taiwan 30070
TW

E0-CB-56 (hex) Shenzhen iComm Semiconductor CO.,LTD
E0CB56 (base 16) Shenzhen iComm Semiconductor CO.,LTD
Room 601,Block B ,Digital Building,Garden City
Shenzhen No.1079 Nanhai Road,Nanshan District 518067
CN

40-E1-E4 (hex) Nokia Solutions and Networks GmbH & Co. KG
40E1E4 (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541
DE

90-F1-57 (hex) Garmin International
90F157 (base 16) Garmin International
1200 E. 151st St
Olathe KS 66062
US

FC-5C-45 (hex) Ruckus Wireless
FC5C45 (base
16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

10-F6-05 (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
10F605 (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

5C-8F-40 (hex) TECNO MOBILE LIMITED
5C8F40 (base 16) TECNO MOBILE LIMITED

ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

58-48-49 (hex) IEEE Registration Authority
584849 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

E0-75-AA (hex) Beijing Jingling Information System Technology Co., Ltd.
E075AA (base 16) Beijing Jingling Information System Technology Co., Ltd.
2002.2nd Floor, A 36, Haidian Street, Haidian District
Beijing 100080
CN

E4-46-B0 (hex) Fujitsu Client Computing Limited
E446B0 (base 16) Fujitsu Client Computing Limited
1-1-2 Kashimada, Saiwai-ku
Kawasaki Kanagawa 212-0058
JP

44-AE-44 (hex) Huawei Device Co., Ltd.
44AE44 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

44-4F-8E (hex) WiZ
444F8E (base 16) WiZ
Unit 1203-5, 12/F, Tower 1, Enterprise Square, 9 Sheung Yuet Road
Kowloon Bay Hong Kong 0000
HK

08-99-E8 (hex) KEMAS GmbH
0899E8 (base 16) KEMAS GmbH
Wüstenbrander Str. 9
Oberlungwitz 09353
DE

04-B8-6A (hex) SKY UK LIMITED
04B86A (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

54-CE-82 (hex) zte corporation
54CE82 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

80-CB-BC (hex) Qingdao Intelligent&Precise Electronics Co.,Ltd.
80CBBC (base 16) Qingdao Intelligent&Precise
Electronics Co.,Ltd.
No.218 Qianwangang Road
Qingdao Shangdong 266510
CN

F4-A4-75 (hex) Intel Corporate
F4A475 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C8-9E-43 (hex) NETGEAR
C89E43 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

28-64-EF (hex) Shenzhen Fsan Intelligent Technology Co.,Ltd
2864EF (base 16) Shenzhen Fsan Intelligent Technology Co.,Ltd
Building 14C, Zhonghaixin Innovation Industry City, Ganli Road, Jihua street,
SHENZHEN GUANGDONG 518000
CN

18-07-12 (hex) Shenzhen Dazoo Technologies CO.,Ltd
180712 (base 16) Shenzhen Dazoo Technologies CO.,Ltd
Room 501, building B, pinchuanyuan science and technology park, shuidou xinwei village, yousong community, longhua street, longhua district, Shenzhen
518000 Shenzhen 518000
CN

F0-2A-2B (hex) IEEE Registration Authority
F02A2B (base 16) IEEE Registration Authority
445
Hoes Lane
Piscataway NJ 08554
US

20-BE-CD (hex) eero inc.
20BECD (base 16) eero inc.
660 3rd Street

San Francisco CA 94107
US

04-EC-D8 (hex) Intel Corporate
04ECD8 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

70-07-77 (hex) OnTarget Technologies, Inc
700777 (base 16) OnTarget Technologies, Inc
355 Madison Ave
New York 10017
US

00-05-34 (hex) Northstar Engineering Ltd.
000534 (base 16) Northstar Engineering Ltd.
P.O. Box 40

GB

BC-09-1B (hex) Intel Corporate
BC091B (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-26-A7 (hex) CONNECT SRL
0026A7 (base 16) CONNECT SRL
Via Cernaia, 11
Milan 20121
IT

8C-1D-96 (hex) Intel Corporate
8C1D96 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

60-DD-8E (hex) Intel Corporate
60DD8E
(base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

90-59-3C (hex) AZ-TECHNOLOGY SDN BHD
90593C (base 16) AZ-TECHNOLOGY SDN BHD

A108 & A109 BLOCK A KELANA BUSINESS CENTRE NO: 97 JALAN SS7/2 KELANA JAYA
PETALING JAYA SELANGOR 47301
MY

1C-C1-0C (hex) Intel Corporate
1CC10C (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-BF-AF (hex) Hui Zhou Gaoshengda Technology Co.,LTD
00BFAF (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.75,Zhongkai High-Tech Development District,Huizhou
Hui Zhou Guangdong 516006
CN

B4-EC-FF (hex) Wuhan IPG Technologies Co., Ltd.
B4ECFF (base 16) Wuhan IPG Technologies Co., Ltd.
Room 01, Floor 18, Building 15, No.18 Jinronggang 4th Road,Putian IOT R&D Base (2nd Phase), East Lak
Wuhan HUBEI 430070
CN

F0-57-A6 (hex) Intel Corporate
F057A6 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim
Kedah 09000
MY

64-26-77 (hex) BKM-Micronic Richtfunkanlagen GmbH
642677 (base 16) BKM-Micronic Richtfunkanlagen GmbH
Im Steinernen Kreuz 19
Wurmberg 75449
DE

1C-E6-39 (hex) HUAWEI TECHNOLOGIES CO.,LTD
1CE639 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

8C-67-94 (hex) vivo Mobile Communication Co., Ltd.
8C6794 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

00-14-41 (hex) Innovation Sound Technology Co., LTD.

001441 (base 16) Innovation Sound Technology Co., LTD.
Building 2th.,Cuihai Industrial Area,
Shenzhen Guangdong 518103
CN

20-D7-78 (hex) Texas Instruments
20D778 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

4C-2F-D7 (hex) Huawei Device Co., Ltd.
4C2FD7 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng
Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

D4-74-15 (hex) Huawei Device Co., Ltd.
D47415 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

50-58-6F (hex) Huawei Device Co., Ltd.
50586F (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

F0-B1-3F (hex) Huawei Device Co., Ltd.
F0B13F (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

7C-C2-55 (hex) Super Micro Computer, Inc.
7CC255 (base 16) Super Micro Computer, Inc.
980 Rock Ave
San Jose CA 95131
US

00-64-AF (hex) Dish Technologies Corp
0064AF (base 16) Dish Technologies Corp
94 Inverness Terrace E
Englewood CO 80111
US

E4-B5-03 (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
E4B503 (base 16) Realme Chongqing Mobile Telecommunications
Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

EC-F4-0C (hex) Cisco Systems, Inc
ECF40C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

10-06-ED (hex) Cisco Systems, Inc
1006ED (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

D4-EB-68 (hex) Cisco Systems, Inc
D4EB68 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

C4-4D-84 (hex) Cisco Systems, Inc
C44D84 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

10-2C-EF (hex) EMU Electronic AG
102CEF (base 16) EMU Electronic AG
Joechlerweg 2
Baar Zug 6340
CH

C0-D0-63 (hex) EM Microelectronic
C0D063 (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

7C-10-C9 (hex) ASUSTek COMPUTER INC.
7C10C9 (base 16) ASUSTek
COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112

TW

38-FF-13 (hex) Joint Stock Company Research Instinite Masshtab
38FF13 (base 16) Joint Stock Company Research Instinite Masshtab
5A, Kantemirovskaya st.
Saint-Petersburg 194100
RU

D0-DB-B7 (hex) Casa Systems
D0DBB7 (base 16) Casa Systems
18-20 Orion Road Lane Cove West
LANE COVE NSW 2066
AU

20-53-83 (hex) HUAWEI TECHNOLOGIES CO.,LTD
205383 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B8-85-7B (hex) HUAWEI TECHNOLOGIES CO.,LTD
B8857B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

50-D0-65 (hex) ESYLUX GmbH
50D065 (base 16) ESYLUX GmbH
An der Strusbek, 40
Ahrensburg Deutschland 22926
DE

A8-67-1E (hex) RATP
A8671E (base 16) RATP
117,
AVENUE MICHELET
SAINT-OUEN 93400
FR

8C-E9-B4 (hex) Zhejiang Dahua Technology Co., Ltd.
8CE9B4 (base 16) Zhejiang Dahua Technology Co., Ltd.
No.1199,Waterfront Road
Hangzhou Zhejiang 310053
CN

6C-CF-39 (hex) Guangdong Starfive Technology Co., Ltd.
6CCF39 (base 16) Guangdong Starfive Technology Co., Ltd.
Room S201, Zone A, No.2 Haoyang Road, Yunlu Community, Daliang Street, Shunde District, Foshan,

Guangdong, 528309, China
Foshan Guangdong 528309
CN

D8-8C-73 (hex) zte corporation
D88C73 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

E8-78-65 (hex) Apple, Inc.
E87865 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B4-CD-F5 (hex) CUB ELECPARTS INC.
B4CDF5 (base 16) CUB ELECPARTS INC.
No. 6, Lane 546, Sec. 6, Changlu Road
Fuhsin Township, Changhua County Taiwan 50648
TW

A0-4E-CF (hex) Apple,
Inc.
A04ECF (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

08-87-C7 (hex) Apple, Inc.
0887C7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

38-65-B2 (hex) Apple, Inc.
3865B2 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D8-DE-3A (hex) Apple, Inc.
D8DE3A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

08-85-5B (hex) Kontron Europe GmbH

08855B (base 16) Kontron Europe GmbH
Gutenbergstraße 2
Ismaning 85737
DE

E8-4F-A7 (hex) Huawei Device Co., Ltd.
E84FA7 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

44-9F-46 (hex) Huawei Device Co., Ltd.
449F46 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

34-51-84 (hex) Huawei Device Co., Ltd.
345184 (base 16) Huawei
Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

FC-F7-7B (hex) Huawei Device Co., Ltd.
FCF77B (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

84-47-09 (hex) Shenzhen IP3 Century Intelligent Technology CO.,Ltd
844709 (base 16) Shenzhen IP3 Century Intelligent Technology CO.,Ltd
aiying.li@ip3-tech.com
Shenzhen 518057
CN

5C-D0-6E (hex) Xiaomi Communications Co Ltd
5CD06E (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

00-91-EB (hex) Renesas Electronics (Penang) Sdn. Bhd.
0091EB (base 16) Renesas Electronics (Penang) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

DC-F5-6E (hex) Wellysis Corp.
DCF56E (base 16) Wellysis Corp.
311 Gangnam-daero
Seocho-gu Seoul 06628
KR

EC-08-E5
(hex) Motorola Mobility LLC, a Lenovo Company
EC08E5 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

80-CC-9C (hex) NETGEAR
80CC9C (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

28-0F-EB (hex) LG Innotek
280FEB (base 16) LG Innotek
26, Hanamsandan 5beon-ro
Gwangju Gwangsan-gu 506-731
KR

74-E2-0C (hex) Amazon Technologies Inc.
74E20C (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

4C-D5-77 (hex) CHONGQING FUGUI ELECTRONICS CO.,LTD.
4CD577 (base 16) CHONGQING FUGUI ELECTRONICS CO.,LTD.
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

64-ED-57 (hex) ARRIS Group, Inc.
64ED57 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

74-5D-68 (hex) Fiberhome Telecommunication Technologies Co.,LTD
745D68
(base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074

CN

20-CF-AE (hex) Cisco Systems, Inc
20CFAE (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

CC-15-31 (hex) Intel Corporate
CC1531 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C0-F9-B0 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C0F9B0 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

14-8C-4A (hex) HUAWEI TECHNOLOGIES CO.,LTD
148C4A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

60-9B-B4 (hex) HUAWEI TECHNOLOGIES CO.,LTD
609BB4 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

10-54-03 (hex) INTARSO GmbH
105403
(base 16) INTARSO GmbH
Schuchardstr. 3
Düsseldorf NRW 40595
DE

7C-27-BC (hex) Hui Zhou Gaoshengda Technology Co.,LTD
7C27BC (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.75,Zhongkai High-Tech Development District,Huizhou
Hui Zhou Guangdong 516006
CN

C0-23-8D (hex) Samsung Electronics Co.,Ltd
C0238D (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu

Suwon Gyeonggi-Do 16677
KR

50-70-97 (hex) China Mobile Group Device Co.,Ltd.
507097 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

0C-60-46 (hex) vivo Mobile Communication Co., Ltd.
0C6046 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

CC-2D-8C (hex) LG ELECTRONICS INC
CC2D8C (base 16) LG ELECTRONICS INC
19-1,Cheongho-Ri,Jinwi-Myeon
Pyeongtaek Gyeonggi-Do 451-713
KR

0C-9A-3C
(hex) Intel Corporate
0C9A3C (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

DC-21-48 (hex) Intel Corporate
DC2148 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

44-DB-60 (hex) Nanjing Baihezhengliu Technology Co., Ltd
44DB60 (base 16) Nanjing Baihezhengliu Technology Co., Ltd
Science and technology innovation center, Shiqiu street, Lishui District
Nanjing Jiangsu 211222
CN

B8-B7-7D (hex) Guangdong Transtek Medical Electronics CO.,Ltd
B8B77D (base 16) Guangdong Transtek Medical Electronics CO.,Ltd
Zone A, No.105 ,Dongli Road, Torch Development District Zhongshan , CN 528437
Zhongshan Guangdong 528437
CN

C4-78-A2 (hex) Huawei Device Co., Ltd.
C478A2 (base 16) Huawei Device Co., Ltd.

No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C0-FB-F9 (hex) IEEE Registration Authority
C0FBF9 (base 16) IEEE
Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

28-11-A8 (hex) Intel Corporate
2811A8 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

74-CF-00 (hex) Shenzhen SuperElectron Technology Co.,Ltd.
74CF00 (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen Guangdong 518000
CN

58-91-53 (hex) China Mobile IOT Company Limited
589153 (base 16) China Mobile IOT Company Limited
NO.8 Yu Ma Road, NanAn Area
Chongqing Chongqing 401336
CN

98-7D-DD (hex) China Mobile Group Device Co.,Ltd.
987DDD (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

B8-13-32 (hex) AMPAK Technology,Inc.
B81332 (base 16) AMPAK Technology,Inc.
3F, No.15-1 Zhonghua Road, Hsinchu Industrail Park, Hukou,
Hsinchu
Hsinchu,Taiwan R.O.C. 30352
TW

AC-E1-4F (hex) Autonomic Controls, Inc.
ACE14F (base 16) Autonomic Controls, Inc.
28 Kaysal Ct
ARMONK NY 10504
US

AC-97-6C (hex) Greenliant
AC976C (base 16) Greenliant
3970 Freedom Circle, Suite 100
Santa Clara CA 95054
US

2C-EA-DC (hex) ASKEY COMPUTER CORP
2CEADC (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585
TW

9C-5A-81 (hex) Xiaomi Communications Co Ltd
9C5A81 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

64-3A-B1 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
643AB1 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12,TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road, Chengdu, Sichuan
Chengdu Sichuan 610000
CN

80-48-A5 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
8048A5
(base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12,TowerB,TianYi International Hotel
Chengdu Sichuan 61000
CN

44-BA-46 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
44BA46 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12,TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road,
Chengdu Sichuan 610000
CN

9C-32-A9 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
9C32A9 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12, TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road,
Chengdu Sichuan 610000
CN

90-86-74 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
908674 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12, TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road,
Chengdu Sichuan 610000
CN

9C-9E-71 (hex) Huawei Device Co., Ltd.
9C9E71 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan
Guangdong 523808
CN

98-49-9F (hex) Domo Tactical Communications
98499F (base 16) Domo Tactical Communications
DTC Fusion 2, 1100 Parkway
Whiteley Hampshire PO15 7AB
GB

88-C9-B3 (hex) IEEE Registration Authority
88C9B3 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

58-13-D3 (hex) Gemtek Technology Co., Ltd.
5813D3 (base 16) Gemtek Technology Co., Ltd.
No.15-1 Zhonghua Road
Hukou Hsinchu 30352
TW

20-1E-88 (hex) Intel Corporate
201E88 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

20-6A-94 (hex) Hitron Technologies. Inc
206A94 (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

30-95-87 (hex) HUNAN FN-LINK TECHNOLOGY LIMITED
309587 (base 16) HUNAN FN-LINK TECHNOLOGY LIMITED
No.8, Litong Road, Liuyan Economic & Tec
Changsha
HUNAN 410329
CN

20-CE-2A (hex) IEEE Registration Authority
20CE2A (base 16) IEEE Registration Authority
445 Hoes Lane

Piscataway NJ 08554
US

7C-F6-66 (hex) Tuya Smart Inc.
7CF666 (base 16) Tuya Smart Inc.
160 Greentree Drive, Suite 101
Dover DE 19904
US

68-26-2A (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
68262A (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12, TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road,
Chengdu Sichuan 610000
CN

B8-22-4F (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
B8224F (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12, TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road,
Chengdu Sichuan 610000
CN

C8-BD-69 (hex) Samsung Electronics Co.,Ltd
C8BD69 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A8-76-50 (hex) Samsung Electronics Co.,Ltd
A87650
(base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

54-D1-7D (hex) Samsung Electronics Co.,Ltd
54D17D (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

60-3A-AF (hex) Samsung Electronics Co.,Ltd
603AAF (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C0-4B-13 (hex) WonderSound Technology Co., Ltd
C04B13 (base 16) WonderSound Technology Co., Ltd

10A, Center of Shenmao, News Road 59, Meiling community, Lianhua Street, Futian district
Shenzhen 518034
CN

9C-7F-81 (hex) SHENZHEN FAST TECHNOLOGIES CO.,LTD
9C7F81 (base 16) SHENZHEN FAST TECHNOLOGIES CO.,LTD
Room 202,Building No.5,Section 30,No.2 of Kefa Road,Nanshan District,Shenzhen,P.R.China
Shenzhen Guangdong 518057
CN

64-27-53 (hex) Huawei Device Co., Ltd.
642753 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road,
Songshan Lake Zone
Dongguan Guangdong 523808
CN

28-53-4E (hex) HUAWEI TECHNOLOGIES CO.,LTD
28534E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

5C-B0-0A (hex) HUAWEI TECHNOLOGIES CO.,LTD
5CB00A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-E5-E4 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
00E5E4 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

14-69-A2 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
1469A2 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
NO.198 FIRST SECTION,SNOW MOUNTAIN AVENUE, JINYUAN TOWN, DAYI COUNTY,
CHENGDU SICHUAN 611330
CN

04-6B-25 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
046B25 (base 16) Sichuan Tianyi
Comheart Telecom Co.,LTD
NO.198 FIRST SECTION,SNOW MOUNTAIN AVENUE, JINYUAN TOWN, DAYI COUNTY,
CHENGDU SICHUAN 611330
CN

10-12-B4 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
1012B4 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
NO.198 FIRST SECTION,SNOW MOUNTAIN AVENUE, JINYUAN TOWN, DAYI COUNTY,
CHENGDU SICHUAN 611330
CN

10-2D-41 (hex) Sichuan AI-Link Technology Co., Ltd.
102D41 (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou, Industrial Park
Mianyang Sichuan 622650
CN

DC-87-CB (hex) Beijing Perfectek Technologies Co., Ltd.
DC87CB (base 16) Beijing Perfectek Technologies Co., Ltd.
A-17, No. 101, 6F, Building 24, No. 68, Beiqing Road, Haidian District
Beijing Beijing 100094
CN

F4-02-28 (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
F40228 (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T. Bangsamak SEMTHAI, WELLGROW INDUSTRIAL ESTATE
Bangpakong Chachoengsao 24180
TH

0C-83-CC
(hex) Alpha Networks Inc.
0C83CC (base 16) Alpha Networks Inc.
No.8 Li-shing 7th Rd., Science-based Industrial Park, Hsinchu, Taiwan, R.O.C
Hsinchu Taiwan 300
TW

C8-B6-FE (hex) Fitbit, Inc.
C8B6FE (base 16) Fitbit, Inc.
199 Fremont Street, 14th Fl
San Francisco CA 94105
US

18-7C-AA (hex) China Mobile Group Device Co.,Ltd.
187CAA (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

00-1C-C5 (hex) 3Com Ltd
001CC5 (base 16) 3Com Ltd
Peoplebuilding 2
Hemel Hempstead Herts HP2 4NW
GB

E8-4F-25 (hex) Murata Manufacturing Co., Ltd.
E84F25 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

04-25-E0 (hex) Taicang T&W Electronics
0425E0 (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

38-52-47 (hex) Huawei Device Co., Ltd.
385247
(base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C4-BC-D7 (hex) New Ryatek
C4BCD7 (base 16) New Ryatek
Room 103, 1st floor, building 19, yard 1, Baosheng South Road, Haidian District, Beijing
Beijing Beijing 100192
CN

C0-AE-FD (hex) Shenzhen HC-WLAN Technology Co.,Ltd
C0AEFD (base 16) Shenzhen HC-WLAN Technology Co.,Ltd
Room 201E, Block D, Donghai Wang Industrial Zone, No. 369, Bulong Road, Bantian Street, Longgang District
Shenzhen Guangdong 518129
CN

C0-DC-D7 (hex) Huawei Device Co., Ltd.
C0DCD7 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

30-37-B3 (hex) HUAWEI TECHNOLOGIES CO.,LTD
3037B3 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

30-85-EB (hex) Fiberhome Telecommunication Technologies
Co.,LTD
3085EB (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road

Wuhan Hubei 430074
CN

84-06-FA (hex) Fiberhome Telecommunication Technologies Co.,LTD
8406FA (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

B8-D4-3E (hex) vivo Mobile Communication Co., Ltd.
B8D43E (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

14-CB-19 (hex) HP Inc.
14CB19 (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

EC-B9-70 (hex) Ruijie Networks Co.,LTD
ECB970 (base 16) Ruijie Networks Co.,LTD
No. 2, 7th floor, xingwangruijie, haixi hi-tech industrial park, high-tech zone, fuzhou city
Fuzhou Fujian 350002
CN

30-83-98 (hex) Espressif Inc.
308398 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

F8-89-D2
(hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
F889D2 (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

10-27-F5 (hex) TP-Link Corporation Limited
1027F5 (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

84-8C-8D (hex) Apple, Inc.
848C8D (base 16) Apple, Inc.

1 Infinite Loop
Cupertino CA 95014
US

0C-E4-41 (hex) Apple, Inc.
0CE441 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B8-2A-A9 (hex) Apple, Inc.
B82AA9 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

78-64-C0 (hex) Apple, Inc.
7864C0 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E8-1C-D8 (hex) Apple, Inc.
E81CD8 (base 16) Apple,
Inc.
1 Infinite Loop
Cupertino CA 95014
US

3C-06-30 (hex) Apple, Inc.
3C0630 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

74-15-75 (hex) Xiaomi Communications Co Ltd
741575 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

7C-55-A7 (hex) Kastle Systems
7C55A7 (base 16) Kastle Systems
6402 Arlington Blvd
Falls Church VA 22042
US

FC-E8-06 (hex) Edifier International

FCE806 (base 16) Edifier International
Suit 2207, 22nd floor, Tower II, Lippo centre, 89 Queensway
Hong Kong 070
CN

30-78-D3 (hex) Virgilant Technologies Ltd.
3078D3 (base 16) Virgilant Technologies Ltd.
2F., No.3, Aly. 19, Lane 8, Tianmu E. Rd.,Shilin Dist.,
Taipei City Taiwan 11153
TW

00-17-E8 (hex) Texas Instruments
0017E8 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX
75243
US

E8-EA-4D (hex) HUAWEI TECHNOLOGIES CO.,LTD
E8EA4D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

3C-FF-D8 (hex) HUAWEI TECHNOLOGIES CO.,LTD
3CFFD8 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

40-BE-EE (hex) Shenzhen Yunding Information Technology Co.,Ltd
40BEEE (base 16) Shenzhen Yunding Information Technology Co.,Ltd
32G, Tower E, CR Land Building, Tong Gu Road 5#, Nanshan District,,Guangdong,CN
Shenzhen Guangdong 518000
CN

A4-4C-62 (hex) Hangzhou Microimage Software Co., Ltd
A44C62 (base 16) Hangzhou Microimage Software Co., Ltd
Room 313, Unit B, Building 2, 399 Danfeng Road, Binjiang District
Hangzhou Zhejiang 310051
CN

CC-86-EC (hex) Silicon Laboratories
CC86EC (base 16) Silicon Laboratories
400 West Cesar Chavez Street
Austin
78701
US

9C-82-81 (hex) vivo Mobile Communication Co., Ltd.
9C8281 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

4C-61-7E (hex) Huawei Device Co., Ltd.
4C617E (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

E0-E3-7C (hex) Huawei Device Co., Ltd.
E0E37C (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

24-18-C6 (hex) HUNAN FN-LINK TECHNOLOGY LIMITED
2418C6 (base 16) HUNAN FN-LINK TECHNOLOGY LIMITED
No.8, Litong Road, Liuyan Economic & Tec
Changsha HUNAN 410329
CN

50-C2-ED (hex) GN Audio A/S
50C2ED (base 16) GN Audio A/S
Lautrupbjerg 7
Ballerup DK-2750
DK

90-A8-22 (hex) Amazon Technologies Inc.
90A822 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

0C-5C-B5
(hex) IEEE Registration Authority
0C5CB5 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

74-AD-98 (hex) Cisco Systems, Inc
74AD98 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568

US

64-97-14 (hex) eero inc.
649714 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

B4-10-7B (hex) Texas Instruments
B4107B (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

00-C0-6A (hex) Zahner-Elektrik Ingeborg Zahner-Schiller GmbH & Co. KG.
00C06A (base 16) Zahner-Elektrik Ingeborg Zahner-Schiller GmbH & Co. KG.
Thüringer Str. 12
Kronach - Gundelsdorf Bavaria 96317
DE

8C-43-61 (hex) Hailo Digital Hub GmbH & Co. KG
8C4361 (base 16) Hailo Digital Hub GmbH & Co. KG
Lahnstrasse 3a
Giessen Hessen 35398
DE

48-51-CF (hex) Intelbras
4851CF (base 16) Intelbras
BR 101, km 210, S/N°
São José
Santa Catarina 88104800
BR

4C-5D-3C (hex) Cisco Systems, Inc
4C5D3C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

34-73-2D (hex) Cisco Systems, Inc
34732D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E4-41-64 (hex) Nokia
E44164 (base 16) Nokia
600 March Road

Kanata Ontario K2K 2E6
CA

08-81-B2 (hex) Logitech (China) Technology Co., Ltd
0881B2 (base 16) Logitech (China) Technology Co., Ltd
1111 Changshou Road
Shanghai 200001
CN

C4-F1-74 (hex) eero inc.
C4F174 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

28-D0-EA (hex) Intel Corporate
28D0EA (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

E0-0C-E5 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E00CE5 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan
523808
CN

D4-47-5A (hex) ScreenBeam, Inc.
D4475A (base 16) ScreenBeam, Inc.
3301 Olcott St
Santa Clara CA 95054
US

78-A6-A0 (hex) Hangzhou Ezviz Software Co.,Ltd.
78A6A0 (base 16) Hangzhou Ezviz Software Co.,Ltd.
Room 302, Unit B, Building 2, 399 Danfeng Road,Binjiang District
Hangzhou Zhejiang 310051
CN

F4-6B-8C (hex) Hon Hai Precision Industry Co., Ltd.
F46B8C (base 16) Hon Hai Precision Industry Co., Ltd.
GuangDongShenZhen
ShenZhen GuangDong 518109
CN

FC-34-97 (hex) ASUSTek COMPUTER INC.
FC3497 (base 16) ASUSTek COMPUTER INC.

15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

AC-13-9C (hex) Adtran Inc
AC139C (base 16) Adtran Inc
901 Explorer Blvd.
Huntsville AL 35806-2807
US

A4-CE-DA (hex) Arcadyan Corporation
A4CEDA (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

84-7A-B6 (hex) AltoBeam
(China) Inc.
847AB6 (base 16) AltoBeam (China) Inc.
B808, Tsinghua Tongfang Hi-Tech Plaza, Haidian
Beijing Beijing 100083
CN

04-7B-CB (hex) Universal Global Scientific Industrial Co., Ltd.
047BCB (base 16) Universal Global Scientific Industrial Co., Ltd.
141, Lane 351, Taiping Road, Sec.1,Tsao Tuen
Nan-Tou Taiwan 54261
TW

28-41-EC (hex) HUAWEI TECHNOLOGIES CO.,LTD
2841EC (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

7C-00-4D (hex) HUAWEI TECHNOLOGIES CO.,LTD
7C004D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

1C-99-57 (hex) Intel Corporate
1C9957 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

04-D3-20 (hex) ITEL MOBILE LIMITED

04D320 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL
BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

8C-34-46 (hex) Huawei Device Co., Ltd.
8C3446 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

80-47-86 (hex) Samsung Electronics Co.,Ltd
804786 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

34-E9-FE (hex) Metis Co., Ltd.
34E9FE (base 16) Metis Co., Ltd.
25, Saenari-ro, Bundang-gu
Seongnam-si Gyeonggi-do 13509
KR

98-C3-D2 (hex) Ningbo Sanxing Medical Electric Co.,Ltd
98C3D2 (base 16) Ningbo Sanxing Medical Electric Co.,Ltd
No.26 FengWan Road,Cicheng Town,Jiangbei District,Ningbo,China
Ningbo 315029
CN

24-5D-FC (hex) IEEE Registration Authority
245DFC (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

D8-EC-E5 (hex) Zyxel Communications Corporation
D8ECE5
(base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

C4-70-AB (hex) Ruijie Networks Co.,LTD
C470AB (base 16) Ruijie Networks Co.,LTD
No. 2, 7th floor, xingwangruijie, haixi hi-tech industrial park, high-tech zone, fuzhou city
Fuzhou Fujian 350002
CN

CC-6B-1E (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
CC6B1E (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

F0-D0-8C (hex) TCT mobile ltd
F0D08C (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

E0-E8-BB (hex) Unicom Vsens Telecommunications Co., Ltd.
E0E8BB (base 16) Unicom Vsens Telecommunications Co., Ltd.
Room612,613,615,6Floors,Block3,Hengji center,N0.18 Jianguomen inner Street,Dondcheng Distict, Beijing,P.R.China
Beijing 100005
CN

98-27-82 (hex) IEEE Registration Authority
982782 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

FC-40-09 (hex) zte corporation
FC4009 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

24-A6-5E (hex) zte corporation
24A65E (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

50-98-39 (hex) Xiaomi Communications Co Ltd
509839 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

CC-81-2A (hex) vivo Mobile Communication Co., Ltd.
CC812A (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860

CN

7C-1B-93 (hex) Huawei Device Co., Ltd.
7C1B93 (base 16) Huawei Device
Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

DC-2D-3C (hex) Huawei Device Co., Ltd.
DC2D3C (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

E4-55-A8 (hex) Cisco Meraki
E455A8 (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco 94158
US

30-F9-4B (hex) Universal Electronics, Inc.
30F94B (base 16) Universal Electronics, Inc.
201 E. Sandpointe Ave
Santa Ana CA 92707
US

04-11-19 (hex) IEEE Registration Authority
041119 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

38-A0-67 (hex) Nokia Solutions and Networks GmbH & Co. KG
38A067 (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541
DE

18-A6-F7 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
18A6F7 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building
24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

E4-C9-0B (hex) Radwin
E4C90B (base 16) Radwin

Habarzel 27
Tel Aviv -- select -- 6971039
IL

70-DF-F7 (hex) ARRIS Group, Inc.
70DFF7 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

64-07-F6 (hex) Samsung Electronics Co.,Ltd
6407F6 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

5C-C3-36 (hex) ittim
5CC336 (base 16) ittim
1202, No.6, Zhongguancun South Street, Haidian District,
beijing 100080
CN

FC-04-1C (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
FC041C (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

00-3D-E1 (hex) Huawei Device Co., Ltd.
003DE1 (base 16) Huawei Device Co., Ltd.
No.2
of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

F0-6F-46 (hex) Ubiik
F06F46 (base 16) Ubiik
2F, No. 151, Aikou 1st Street,
Zhubei City Hsinchu County 302
TW

B0-60-88 (hex) Intel Corporate
B06088 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

48-00-7D (hex) DTS ELEKTRONIK SAN. TIC. LTD. STI.

48007D (base 16) DTS ELEKTRONIK SAN. TIC. LTD. STI.
MAHMUTBEY MAH. 2650.SOK. NO:21
ISTANBUL 34218
TR

30-B1-B5 (hex) Arcadyan Corporation
30B1B5 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

68-AB-BC (hex) Beijing Xiaomi Mobile Software Co., Ltd
68ABBC (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

F4-D4-88 (hex) Apple, Inc.
F4D488 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino
CA 95014
US

68-2F-67 (hex) Apple, Inc.
682F67 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

50-ED-3C (hex) Apple, Inc.
50ED3C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D8-14-DF (hex) TCL King Electrical Appliances (Huizhou) Co., Ltd
D814DF (base 16) TCL King Electrical Appliances (Huizhou) Co., Ltd
10F, TCL Multimedia Building, TCL International E City, No.1001 Zhongshanyuan Rd., Nanshan District
Shenzhen Guangdong 518052
CN

90-02-7A (hex) Shenzhen Sworix Techonlogy Co., Ltd
90027A (base 16) Shenzhen Sworix Techonlogy Co., Ltd
Room202, 2nd floor, Jianghao commercial center, Jianghao Industrial area,Jihua road 430, Bantian, Longgang
Shenzhen 518129
CN

D0-5A-FD (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
D05AFD (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District,
Chongqing.
Chongqing China 401120
CN

34-C1-03 (hex) Hangzhou Huamu Technology Co.,Ltd.
34C103 (base 16) Hangzhou Huamu Technology Co.,Ltd.
Xiangnan village,Yiqiao Town,Xiaoshan District,Hangzhou City,Zhejiang
Hangzhou 311256
CN

58-41-20 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
584120 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

3C-06-A7 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
3C06A7 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

24-E9-27 (hex) TomTom International BV
24E927 (base 16) TomTom International BV
Oosterdoksstraat 114
Amsterdam North Holland 1011 DK
NL

F0-F5-64 (hex) Samsung Electronics Co.,Ltd
F0F564 (base 16) Samsung Electronics
Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

70-89-76 (hex) Tuya Smart Inc.
708976 (base 16) Tuya Smart Inc.
FLAT/RM 806 BLK ? 8/F CHEUNG SHA WAN PLAZA 833 CHEUNG SHA WAN ROAD KL
hongkong Hong Kong 999077
CN

24-5B-83 (hex) Renesas Electronics (Penang) Sdn. Bhd.
245B83 (base 16) Renesas Electronics (Penang) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900

MY

84-5C-F3 (hex) Intel Corporate
845CF3 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

2C-79-3D (hex) Boditech Med
2C793D (base 16) Boditech Med
43, Geodudanji 1-gil, Dongnae-myeon,
Chuncheon-si, Gangwon-do 24398
KR

6C-02-E0 (hex) HP Inc.
6C02E0 (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

F0-AC-A4 (hex) HBC-radiomatic
F0ACA4 (base 16) HBC-radiomatic
Haller Str. 45-53
Crailsheim Baden Wurttemberg 74564
DE

64-D7-C0 (hex) Huawei
Device Co., Ltd.
64D7C0 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

94-60-10 (hex) Huawei Device Co., Ltd.
946010 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

90-3C-B3 (hex) Edgecore Networks Corporation
903CB3 (base 16) Edgecore Networks Corporation
1 Creation RD 3.
Hsinchu 30077
TW

80-22-78 (hex) China Mobile IOT Company Limited
802278 (base 16) China Mobile IOT Company Limited
NO.8 Yu Ma Road, NanAn Area

Chongqing Chongqing 401336
CN

64-13-AB (hex) HUAWEI TECHNOLOGIES CO.,LTD
6413AB (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

0C-73-29 (hex) Sercomm Corporation.
0C7329 (base 16) Sercomm Corporation.
3F,No.81,Yu-Yih Rd.,Chu-Nan Chen
Miao-Lih Hsuan 115
TW

6C-13-D5
(hex) Cisco Systems, Inc
6C13D5 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

F8-97-25 (hex) OPPLE LIGHTING CO., LTD
F89725 (base 16) OPPLE LIGHTING CO., LTD
Building V3, The MIXC, Lane 1799, Wuzhong Road, Minhang District
Shanghai Shanghai 201103
CN

54-66-F9 (hex) ConMet
5466F9 (base 16) ConMet
5701 SE Columbia Way
Vancouver WA 98661
US

8C-64-D4 (hex) Hyeco Smart Tech Co.,Ltd
8C64D4 (base 16) Hyeco Smart Tech Co.,Ltd
12 Beiqian Lane,Industrial Park
Suzhou Jiangsu 215000
CN

14-23-0A (hex) HUAWEI TECHNOLOGIES CO.,LTD
14230A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

58-AE-A8 (hex) HUAWEI TECHNOLOGIES CO.,LTD
58AEA8 (base 16) HUAWEI TECHNOLOGIES CO.,LTD

No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

6C-D7-04
(hex) HUAWEI TECHNOLOGIES CO.,LTD
6CD704 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

54-3A-D6 (hex) Samsung Electronics Co.,Ltd
543AD6 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

54-46-17 (hex) zte corporation
544617 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

84-44-AF (hex) Zhejiang Tmall Technology Co., Ltd.
8444AF (base 16) Zhejiang Tmall Technology Co., Ltd.
Ali Center,No.3331 Keyuan South RD (Shenzhen bay), Nanshan District, Shenzhen Guangdong province
Shenzhen GuangDong 518000
CN

8C-DE-F9 (hex) Beijing Xiaomi Mobile Software Co., Ltd
8CDEF9 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

D0-3C-1F
(hex) Intel Corporate
D03C1F (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

A0-3D-6E (hex) Cisco Systems, Inc
A03D6E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

B0-8B-D0 (hex) Cisco Systems, Inc
B08BD0 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

5C-85-F8 (hex) SHENZHEN KAIFA TECHNOLOGY CO.,LTD.
5C85F8 (base 16) SHENZHEN KAIFA TECHNOLOGY CO.,LTD.
7006 Caitian Rd., Futian Dist.
Shen Zhen Guang Dong 518035
CN

9C-BC-F0 (hex) Xiaomi Communications Co Ltd
9CBCF0 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

0C-48-85 (hex) LG Electronics (Mobile Communications)
0C4885 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

70-E4-6E (hex) Lytx
70E46E
(base 16) Lytx
9785 Towne Centre Drive
San Diego CA 92121
US

58-AE-2B (hex) Huawei Device Co., Ltd.
58AE2B (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

E4-3C-80 (hex) University of Oklahoma
E43C80 (base 16) University of Oklahoma
Advanced Radar Research Center
Norman OK 73019
US

A8-F7-66 (hex) ITE Tech Inc
A8F766 (base 16) ITE Tech Inc
3F, No.13, Chuangsin 1st Rd., Hsinchu Science Park
Hsinchu Taiwan 30076
TW

7C-21-0D (hex) Cisco Systems, Inc
7C210D (base 16) Cisco Systems, Inc
80 West Tasman Dr.
San Jose CA 94568
US

34-FE-C5 (hex) Shenzhen Sunwoda intelligent hardware Co.,Ltd
34FEC5 (base 16) Shenzhen Sunwoda intelligent hardware Co.,Ltd
No.6-6,Yan Shan Rd.,Baoan District,Shenzhen City,China
Shenzhen Guangdong 518105
CN

94-A6-7E (hex) NETGEAR
94A67E (base 16) NETGEAR
350
East Plumeria Drive
San Jose CA 95134
US

FC-D4-36 (hex) Motorola Mobility LLC, a Lenovo Company
FCD436 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

0C-EC-8D (hex) Motorola Mobility LLC, a Lenovo Company
0CEC8D (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

18-4F-5D (hex) JRC Mobility Inc.
184F5D (base 16) JRC Mobility Inc.
NAKANO CENTRAL PARK EAST 10-1, Nakano 4-chome
Nakano-ku Tokyo 164-8570
JP

10-3F-44 (hex) Xiaomi Communications Co Ltd
103F44 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

8C-34-01 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
8C3401 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860

CN

00-0B-DE
(hex) TELDIX GmbH
000BDE (base 16) TELDIX GmbH
Grenzhoefer Weg 36
Heidelberg 69123
DE

A4-6B-B6 (hex) Intel Corporate
A46BB6 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

FC-0C-45 (hex) Shenzhen SuperElectron Technology Co.,Ltd.
FC0C45 (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen Guangdong 518000
CN

54-67-E6 (hex) SHENZHEN MTC CO LTD
5467E6 (base 16) SHENZHEN MTC CO LTD
5th Floor, 3rd Building, SHENZHEN MTC Industrial Park, XiaLilang Rd, Nanwan Street, Long'gang District
Shenzhen Guangdong 518100
CN

D4-39-B8 (hex) Ciena Corporation
D439B8 (base 16) Ciena Corporation
7035 Ridge Road
Hanover MD 21076
US

14-B2-E5 (hex) Shenzhen iComm Semiconductor CO.,LTD
14B2E5 (base 16) Shenzhen iComm Semiconductor CO.,LTD
Room
601,Block B ,Digital Building,Garden City
Shenzhen No.1079 Nanhai Road,Nanshan District 518067
CN

24-9F-89 (hex) Texas Instruments
249F89 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

24-76-25 (hex) Texas Instruments
247625 (base 16) Texas Instruments

12500 TI Blvd
Dallas TX 75243
US

F8-7A-41 (hex) Cisco Systems, Inc
F87A41 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

84-F1-47 (hex) Cisco Systems, Inc
84F147 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

74-E9-BF (hex) HUAWEI TECHNOLOGIES CO.,LTD
74E9BF (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D8-10-9F (hex) HUAWEI TECHNOLOGIES CO.,LTD
D8109F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

3C-54-47
(hex) HUAWEI TECHNOLOGIES CO.,LTD
3C5447 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-6B-6F (hex) HUAWEI TECHNOLOGIES CO.,LTD
006B6F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

60-35-73 (hex) Earda Technologies co Ltd
603573 (base 16) Earda Technologies co Ltd
Block A,Lianfeng Creative Park, #2 Jisheng Rd., Nansha District
Guangzhou Guangdong 511455
CN

A4-97-33 (hex) ASKEY COMPUTER CORP

A49733 (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585
TW

F0-2F-74 (hex) ASUSTek COMPUTER INC.
F02F74 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

00-6E-02 (hex) Xovis AG
006E02 (base 16) Xovis AG
Industriestrasse 1
Zollikofen
Bern 3052
CH

2C-18-75 (hex) Skyworth Digital Technology(Shenzhen) Co.,Ltd
2C1875 (base 16) Skyworth Digital Technology(Shenzhen) Co.,Ltd
7F,Block A,Skyworth Building,
Shenzhen Guangdong 518057
CN

D0-6E-DE (hex) Sagemcom Broadband SAS
D06EDE (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

08-CB-E5 (hex) R3 Solutions GmbH
08CBE5 (base 16) R3 Solutions GmbH
Kurfürstendamm 21
Berlin 10719
DE

48-25-67 (hex) Poly
482567 (base 16) Poly
6001 America Center Drive
San Jose CA 95002
US

A8-9A-D7 (hex) Nokia
A89AD7 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

18-11-71 (hex) Guangzhou Doctorpai Education & Technology Co.,Ltd
181171 (base 16) Guangzhou Doctorpai Education & Technology Co.,Ltd
Floor 5, Building C1, Greenland Central Plaza
Huangpu District, Guangzhou Guangdong Province 510700
CN

AC-F8-5C
(hex) Chengdu Higon Integrated Circuit Design Co,. Ltd.
ACF85C (base 16) Chengdu Higon Integrated Circuit Design Co,. Ltd.
Suite22-31, 11Floor, Block E5,Tianfu Software Park, Chengdu Gaoxin District
Chengdu Sichuan 610041
CN

00-E9-3A (hex) AzureWave Technology Inc.
00E93A (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

78-F0-9B (hex) Huawei Device Co., Ltd.
78F09B (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

48-EF-61 (hex) Huawei Device Co., Ltd.
48EF61 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

E0-77-26 (hex) Huawei Device Co., Ltd.
E07726 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

44-F2-1B (hex) Apple, Inc.
44F21B (base
16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

74-65-0C (hex) Apple, Inc.
74650C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

E0-6D-17 (hex) Apple, Inc.
E06D17 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-B3-EC (hex) Apple, Inc.
F0B3EC (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F4-65-A6 (hex) Apple, Inc.
F465A6 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-23-AE (hex) AMPAK Technology,Inc.
F023AE (base 16) AMPAK Technology,Inc.
3F, No.15-1 Zhonghua Road, Hsinchu Industrail Park, Hukou,
Hsinchu Hsinchu,Taiwan R.O.C. 30352
TW

00-34-A1 (hex) RF-LAMBDA USA INC.
0034A1 (base 16) RF-LAMBDA USA INC.
9115 Brown Deer Road | San Diego
CA 92121
US

24-94-94 (hex) Hong Kong Bouffalo Lab Limited
249494 (base 16) Hong Kong Bouffalo Lab Limited
RM 1903, 19/F Lee Garden
One 33 Hysan Avenue, Causeway Bay
HongKong 999077
HK

30-BE-3B (hex) Mitsubishi Electric Corporation
30BE3B (base 16) Mitsubishi Electric Corporation
2-7-3 Marunouchi, Chiyoda-ku
Tokyo 100-8310
JP

3C-A3-7E (hex) HUAWEI TECHNOLOGIES CO.,LTD
3CA37E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park

Dongguan 523808
CN

78-98-E8 (hex) D-Link International
7898E8 (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

F8-E4-3B (hex) ASIX Electronics Corporation
F8E43B (base 16) ASIX Electronics Corporation
4F, No. 8, Hsin Ann Road, Hsinchu Science Park
Hsinchu 30078
TW

60-DB-98 (hex) Calix Inc.
60DB98 (base 16) Calix Inc.
2777 Orchard Pkwy
San Jose CA 95131
US

68-72-C3 (hex) Samsung Electronics Co.,Ltd
6872C3 (base 16) Samsung Electronics Co.,Ltd
129,
Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

70-B1-3D (hex) Samsung Electronics Co.,Ltd
70B13D (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

FC-7F-F1 (hex) Aruba, a Hewlett Packard Enterprise Company
FC7FF1 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

F8-5E-A0 (hex) Intel Corporate
F85EA0 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

14-56-3A (hex) Huawei Device Co., Ltd.
14563A (base 16) Huawei Device Co., Ltd.

No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

70-90-B7 (hex) Huawei Device Co., Ltd.
7090B7 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

38-FC-98 (hex) Intel Corporate
38FC98 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3

Kulim Kedah 09000
MY

50-2F-9B (hex) Intel Corporate
502F9B (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-18-8C (hex) Mobile Action Technology Inc.
00188C (base 16) Mobile Action Technology Inc.
5F, No. 205-3, Sec. 3, Beishin Rd.
Shindian City, Taipei 231
TW

1C-90-BE (hex) Ericsson AB
1C90BE (base 16) Ericsson AB
Torshamnsgatan 36
Stockholm SE-164 80
SE

34-2B-70 (hex) Arris
342B70 (base 16) Arris
2500 Walsh Ave.
Santa Clara CA 95014
US

4C-02-20 (hex) Xiaomi Communications Co Ltd
4C0220 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

D4-1B-81 (hex) CHONGQING FUGUI ELECTRONICS CO.,LTD.

D41B81 (base 16) CHONGQING FUGUI ELECTRONICS CO.,LTD.
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

F4-0B-9F
(hex) CIG SHANGHAI CO LTD
F40B9F (base 16) CIG SHANGHAI CO LTD
5th Floor, Building 8 No 2388 Chenhang Road
SHANGHAI 201114
CN

C0-94-AD (hex) zte corporation
C094AD (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

5C-61-99 (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
5C6199 (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

E8-DB-84 (hex) Espressif Inc.
E8DB84 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

A0-77-51 (hex) ASMedia Technology Inc.
A07751 (base 16) ASMedia Technology Inc.
6F, No.115, Minquan Rd.,
New Taipei City 23141
TW

30-56-84 (hex) SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD
305684 (base
16) SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD
A-SIDE A2 BUILDING 2/F ENET NEW INDUSTRIAL PARK,NO.20 DAFU INDUSTRIAL ZONE, AOBEI COMMUNITY, GUANLAN, LONGHUA NEW DISTRICT
SHENZHEN GUANGDONG 518000
CN

00-08-1E (hex) Repeatit AB
00081E (base 16) Repeatit AB
Farogatan 7

SE

74-73-1D (hex) ifm electronic gmbh
74731D (base 16) ifm electronic gmbh
ifm-Straße 1
Tettnang BW 88069
DE

00-1F-94 (hex) Lascar Electronics Ltd
001F94 (base 16) Lascar Electronics Ltd
Module House
Nr Salisbury Wiltshire SP5 2SJ
GB

78-7D-F3 (hex) Sterlite Technologies Limited
787DF3 (base 16) Sterlite Technologies Limited
IFFCO Tower, 3rd Floor, Plot No.3, Sector 29,CH Baktawar Singh Rd, Institutional Area,
Gurugram Haryana 122002
IN

D0-55-09 (hex) Nintendo Co.,Ltd
D05509 (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

9C-B2-E8 (hex) HUAWEI
TECHNOLOGIES CO.,LTD
9CB2E8 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

08-8F-C3 (hex) COMPAL INFORMATION (KUNSHAN) CO., LTD.
088FC3 (base 16) COMPAL INFORMATION (KUNSHAN) CO., LTD.
NO. 25, THE 3RD Street KUNSHAN EXPORT PROCESSING ZONE
KUNSHAN SUZHOU 215300
CN

9C-BF-0D (hex) Framework Computer LLC
9CBF0D (base 16) Framework Computer LLC
1870 Ogden Dr
Burlingame CA 94010
US

D0-21-AC (hex) Yohana
D021AC (base 16) Yohana
3460 Hillview Ave.

Palo Alto CA 94304
US

78-45-B3 (hex) Huawei Device Co., Ltd.
7845B3 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

20-DC-FD (hex) Huawei Device Co., Ltd.
20DCFD (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

FC-65-B3 (hex) Huawei
Device Co., Ltd.
FC65B3 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

10-9D-7A (hex) Huawei Device Co., Ltd.
109D7A (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

DC-63-73 (hex) OBARA KOREA
DC6373 (base 16) OBARA KOREA
97-23, Barangongdan-ro 4-gil
Hwaseong-si Gyeonggi-do 18623
KR

D4-7E-E4 (hex) China Mobile IOT Company Limited
D47EE4 (base 16) China Mobile IOT Company Limited
NO.8 Yu Ma Road, NanAn Area
Chongqing Chongqing 401336
CN

1C-A8-52 (hex) SENSAIO PTE LTD
1CA852 (base 16) SENSAIO PTE LTD
160 Robinson Road #14-04
SINGAPORE SINGAPORE 068914
SG

40-1C-83 (hex) Intel Corporate
401C83 (base 16) Intel Corporate

Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

44-3B-32 (hex) Intelbras
443B32 (base 16) Intelbras
BR 101, km 210,
S/N°
São José Santa Catarina 88104800
BR

68-3E-26 (hex) Intel Corporate
683E26 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

8C-55-4A (hex) Intel Corporate
8C554A (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

54-9F-C6 (hex) Cisco Systems, Inc
549FC6 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

F0-1D-2D (hex) Cisco Systems, Inc
F01D2D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-55-B1 (hex) Shanghai Baud Data Communication Co.,Ltd.
0055B1 (base 16) Shanghai Baud Data Communication Co.,Ltd.
NO.123 JULI RD
PUDONG ZHANGJIANG HIGH-TECH PARK SHANGHAI 201203
CN

74-90-1F (hex) Ragile Networks Inc.
74901F (base 16) Ragile Networks Inc.
35649 Embassy common Fremont ca 94536
Fremont CA 94536
US

88-89-2F (hex) HUAWEI TECHNOLOGIES CO.,LTD

88892F
(base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

28-E5-B0 (hex) HUAWEI TECHNOLOGIES CO.,LTD
28E5B0 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

38-CA-73 (hex) Shenzhen MiaoMing Intelligent Technology Co.,Ltd
38CA73 (base 16) Shenzhen MiaoMing Intelligent Technology Co.,Ltd
Chudong science and technology park, 111 shaxin road, tangxia town,
dongguan city guangdong province 523710
CN

6C-0D-C4 (hex) Beijing Xiaomi Electronics Co., Ltd.
6C0DC4 (base 16) Beijing Xiaomi Electronics Co., Ltd.
Building C, QingHe ShunShiJiaYe Technology Park, #66 ZhuFang Rd, HaiDian District
Beijing Beijing 10085
CN

C4-40-F6 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
C440F6 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG
GUAN GUANG DONG 523860
CN

84-EA-97 (hex) Shenzhen iComm Semiconductor CO.,LTD
84EA97 (base 16) Shenzhen iComm Semiconductor CO.,LTD
Room 601,Block B ,Digital Building,Garden City
Shenzhen No.1079 Nanhai Road,Nanshan District 518067
CN

A4-7D-9F (hex) Shenzhen iComm Semiconductor CO.,LTD
A47D9F (base 16) Shenzhen iComm Semiconductor CO.,LTD
Room 601,Block B ,Digital Building,Garden City
Shenzhen No.1079 Nanhai Road,Nanshan District 518067
CN

E0-1C-FC (hex) D-Link International
E01CFC (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

20-4E-F6 (hex) AzureWave Technology Inc.
204EF6 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

FC-44-9F (hex) zte corporation
FC449F (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong
518057
CN

98-60-CA (hex) Apple, Inc.
9860CA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

44-90-BB (hex) Apple, Inc.
4490BB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

34-FD-6A (hex) Apple, Inc.
34FD6A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

44-35-83 (hex) Apple, Inc.
443583 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

0C-8B-7D (hex) Vizio, Inc
0C8B7D (base 16) Vizio, Inc
39 Tesla
Irvine CA 92618
US

00-23-E9 (hex) F5 Networks, Inc.
0023E9 (base 16) F5 Networks, Inc.
401 Elliott Ave. W.
Seattle WA 98119

US

3C-7C-3F (hex) ASUSTek COMPUTER INC.
3C7C3F (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

24-47-0E (hex) PentronicAB
24470E (base 16) PentronicAB
Bergsliden 1
GUNNEBO 59093
SE

8C-D6-7F
(hex) EM Microelectronic
8CD67F (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

34-91-6F (hex) UserGate Ltd.
34916F (base 16) UserGate Ltd.
Nikolaeva str., 11, 602
Novosibirsk 630090
RU

14-2C-78 (hex) GooWi Wireless Technology Co., Limited
142C78 (base 16) GooWi Wireless Technology Co., Limited
RM402 Building212, Tairan Technology Park, Futian District
Shenzhen Guangdong 518000
CN

98-FC-84 (hex) IEEE Registration Authority
98FC84 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

EC-4D-3E (hex) Beijing Xiaomi Mobile Software Co., Ltd
EC4D3E (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

EC-3E-B3 (hex) Zyxel Communications Corporation
EC3EB3 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II,

Science Park
Hsichu Taiwan 300
TW

D8-A4-91 (hex) Huawei Device Co., Ltd.
D8A491 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

68-13-24 (hex) Huawei Device Co., Ltd.
681324 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

A8-C0-92 (hex) Huawei Device Co., Ltd.
A8C092 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

5C-91-FD (hex) Jaewoncnc
5C91FD (base 16) Jaewoncnc
A-501~507, H-Businesspark, 25 Beobwon-ro11gil, Songpa-gu, Seoul, Korea
Seoul 05836
KR

F8-2E-3F (hex) HUAWEI TECHNOLOGIES CO.,LTD
F82E3F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

90-A5-AF (hex) HUAWEI TECHNOLOGIES CO.,LTD
90A5AF (base 16) HUAWEI TECHNOLOGIES
CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

04-76-B0 (hex) Cisco Systems, Inc
0476B0 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

40-F0-78 (hex) Cisco Systems, Inc

40F078 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

78-D7-1A (hex) Ciena Corporation
78D71A (base 16) Ciena Corporation
7035 Ridge Road
Hanover MD 21076
US

24-B1-05 (hex) Prama Hikvision India Private Limited
24B105 (base 16) Prama Hikvision India Private Limited
Prama Hikvision India Pvt Ltd, Akurli Cross Road No 1, Kandivali East
Mumbai Maharashtra 400101
IN

70-9C-D1 (hex) Intel Corporate
709CD1 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

4C-AE-EC (hex) Guangzhou limee technology co.,LTD
4CAEEC (base 16) Guangzhou limee technology co.,LTD
No.2, Yichuang
Street, Zhongxin Guangzhou Knowledge City, Huangpu District, Guangzhou
Guangzhou Guangdong 510555
CN

80-60-B7 (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
8060B7 (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

DC-72-23 (hex) Hui Zhou Gaoshengda Technology Co.,LTD
DC7223 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.75,Zhongkai High-Tech Development District,Huizhou
Hui Zhou Guangdong 516006
CN

90-AA-C3 (hex) Hitron Technologies. Inc
90AAC3 (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

44-91-7C (hex) HMD Global Oy
44917C (base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo Paimio 02600
FI

24-5F-9F (hex) Huawei Device Co., Ltd.
245F9F (base 16) Huawei
Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

CC-B0-A8 (hex) Huawei Device Co., Ltd.
CCB0A8 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

50-28-73 (hex) Huawei Device Co., Ltd.
502873 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

34-20-E3 (hex) Ruckus Wireless
3420E3 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

78-71-9C (hex) ARRIS Group, Inc.
78719C (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

20-F4-4F (hex) Nokia
20F44F (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

34-55-94 (hex) FUJIAN STAR-NET COMMUNICATION CO.,LTD
345594 (base 16) FUJIAN STAR-NET COMMUNICATION CO.,LTD
19-22# Building, Star-net Science Plaza, Juyuanzhou,
FUZHOU

FUJIAN 350002
CN

4C-93-A6 (hex) IEEE Registration Authority
4C93A6 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

CC-47-BD (hex) Rhombus Systems
CC47BD (base 16) Rhombus Systems
770 L St, Suite 1480
Sacramento CA 95814
US

40-AA-56 (hex) China Dragon Technology Limited
40AA56 (base 16) China Dragon Technology Limited
B4 Bldg.Haoshan 1st Industry Park,
Shenzhen Guangdong 518104
CN

68-54-5A (hex) Intel Corporate
68545A (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

4C-B9-9B (hex) WEIFANG GOERTEK ELECTRONICS CO.,LTD
4CB99B (base 16) WEIFANG GOERTEK ELECTRONICS CO.,LTD
Gaoxin 2 Road, Free Trade Zone,Weifang,Shandong,261205,P.R.China
Weifang Shandong 261205
CN

BC-7E-8B (hex) Samsung Electronics Co.,Ltd
BC7E8B (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

54-77-8A
(hex) Hewlett Packard Enterprise
54778A (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

9C-6B-37 (hex) Renesas Electronics (Penang) Sdn. Bhd.
9C6B37 (base 16) Renesas Electronics (Penang) Sdn. Bhd.

Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

A8-37-59 (hex) Huawei Device Co., Ltd.
A83759 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

50-F7-ED (hex) Huawei Device Co., Ltd.
50F7ED (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

00-1E-31 (hex) infomark
001E31 (base 16) infomark
5F.,Geown Bldg.,1360-53
Seoul Seocho-dong,Seocho-gu 137-863
KR

3C-E3-E7 (hex) China Mobile Group Device Co.,Ltd.
3CE3E7 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing
100053
CN

54-88-DE (hex) Cisco Systems, Inc
5488DE (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

24-FD-0D (hex) Intelbras
24FD0D (base 16) Intelbras
BR 101, KM 210
São Jose Santa Catarina 88104-800
BR

0C-31-DC (hex) HUAWEI TECHNOLOGIES CO.,LTD
0C31DC (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

40-DD-D1 (hex) Beautiful Card Corporation

40DDD1 (base 16) Beautiful Card Corporation
Wenming 1st St.,
Taoyuan 33383
TW

C0-E7-BF (hex) Sichuan AI-Link Technology Co., Ltd.
C0E7BF (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou, Industrial Park
Mianyang Sichuan 622650
CN

64-33-DB (hex) Texas Instruments
6433DB (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

A4-06-E9 (hex) Texas Instruments
A406E9 (base 16) Texas Instruments
12500
TI Blvd
Dallas TX 75243
US

B0-B1-13 (hex) Texas Instruments
B0B113 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

0C-C8-44 (hex) Cambridge Mobile Telematics, Inc.
0CC844 (base 16) Cambridge Mobile Telematics, Inc.
One Broadway, 14th Floor
Cambridge MA 02142
US

E0-B2-60 (hex) TENO NETWORK TECHNOLOGIES COMPANY LIMITED
E0B260 (base 16) TENO NETWORK TECHNOLOGIES COMPANY LIMITED
RM 1302, 13/F CHEONG K BLDG 84-86 DES VOEUX RD CENTRAL HONG KONG
Hong Kong 999077
HK

34-6D-9C (hex) Carrier Corporation
346D9C (base 16) Carrier Corporation
6304 Thompson Rd
East Syracuse NY 13057
US

7C-F9-A0 (hex) Fiberhome Telecommunication Technologies Co.,LTD
7CF9A0 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

6C-A4-D1 (hex) Fiberhome Telecommunication Technologies Co.,LTD
6CA4D1 (base 16) Fiberhome Telecommunication
Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

A4-46-B4 (hex) Huawei Device Co., Ltd.
A446B4 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

DC-D4-44 (hex) Huawei Device Co., Ltd.
DCD444 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

D4-F7-56 (hex) zte corporation
D4F756 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

48-23-35 (hex) Dialog Semiconductor Hellas SA
482335 (base 16) Dialog Semiconductor Hellas SA
Achileos 8 & Katsoni Str
Kalithea, Athens 17674
GR

E8-DA-20 (hex) Nintendo Co.,Ltd
E8DA20 (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

70-82-8E (hex) OleumTech Corporation
70828E (base 16) OleumTech
Corporation
23 Hubble
Irvine CA 92618

US

8C-85-C1 (hex) Aruba, a Hewlett Packard Enterprise Company
8C85C1 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

20-A1-71 (hex) Amazon Technologies Inc.
20A171 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

E0-69-3A (hex) Innophase Inc.
E0693A (base 16) Innophase Inc.
6815 Flanders Drive Suite 150
San Diego CA 92121
US

00-02-AC (hex) 3PAR data
0002AC (base 16) 3PAR data
4209 Technology Drive
Fremont CA 94538
US

78-2B-64 (hex) Bose Corporation
782B64 (base 16) Bose Corporation
The Mountain
Framingham MA 01701-9168
US

54-AB-3A (hex) Quanta Computer Inc.
54AB3A (base 16) Quanta Computer Inc.
No.211, Wen Hwa 2nd Rd., Kuei Shan Hsiang, Tao Yuan Shien, Taiwan, R. O. C.
Taoyuan Taiwan 33377
TW

E8-9A-8F (hex) Quanta Computer Inc.
E89A8F
(base 16) Quanta Computer Inc.
211, Wen Hwa 2nd Rd.,Kuei Shan, Tao Yuan
TAIPEI 33377
TW

EC-6C-9A (hex) Arcadyan Corporation
EC6C9A (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.

Hsinchu City Hsinchu 30071
TW

10-BC-97 (hex) vivo Mobile Communication Co., Ltd.
10BC97 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

44-01-BB (hex) SHENZHEN BILIAN ELECTRONIC CO.LTD
4401BB (base 16) SHENZHEN BILIAN ELECTRONIC CO.LTD
NO.268? Fuqian Rd, Jutang community, Guanlan Town, Longhua New district
shenzhen guangdong 518000
CN

C8-02-10 (hex) LG Innotek
C80210 (base 16) LG Innotek
Jangduk-dong 978-1
Gwang-ju Gwangsan-gu 506-731
KR

00-1E-B2 (hex) LG Innotek
001EB2 (base 16) LG Innotek
Hanyang Univ. 1271, Sa-dong, Sangrok-gu
Ansan-si Gyeonggi-do 426-791
KR

3C-53-D7 (hex) CEDES AG
3C53D7 (base 16) CEDES
AG
Kantonsstrasse 14
Landquart 7302
CH

44-68-0C (hex) Wacom Co.,Ltd.
44680C (base 16) Wacom Co.,Ltd.
Sumitomo Fudosan Shinjuku Grand Tower 31F,8-17-1
Nishi-shinjuku,Shinjuku-ku Tokyo 160-6131
JP

98-0E-24 (hex) Phytium Technology Co.,Ltd.
980E24 (base 16) Phytium Technology Co.,Ltd.
Building5,XinAn Business Square,Haiyuan Middle Road Binhai New District,
Tianjin 300450
CN

A8-30-BC (hex) Samsung Electronics Co.,Ltd
A830BC (base 16) Samsung Electronics Co.,Ltd

#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

78-46-D4 (hex) Samsung Electronics Co.,Ltd
7846D4 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

1C-98-C1 (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
1C98C1 (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi
530007
CN

A0-9B-17 (hex) Taicang T&W Electronics
A09B17 (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

E0-6C-A6 (hex) Creotech Instruments S.A.
E06CA6 (base 16) Creotech Instruments S.A.
ul. Gen. L. Okulickiego 7/9
Piaseczno Mazovia 05-500
PL

A0-D8-3D (hex) Fiberhome Telecommunication Technologies Co.,LTD
A0D83D (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

58-F2-FC (hex) Huawei Device Co., Ltd.
58F2FC (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

50-70-43 (hex) SKY UK LIMITED
507043 (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

E8-13-6E (hex) HUAWEI TECHNOLOGIES CO.,LTD

E8136E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

4C-AE-13
(hex) HUAWEI TECHNOLOGIES CO.,LTD
4CAE13 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

4C-2E-FE (hex) Shenzhen Comnect Technology Co.,LTD
4C2EFE (base 16) Shenzhen Comnect Technology Co.,LTD
G Zone, 3/F, Building 1, Baisha High-Tech Park, No. 3011, Shahe Road West, XiLi Street, Nanshan District
Shenzhen 518055
CN

C0-86-B3 (hex) Shenzhen Voxtech Co., Ltd.
C086B3 (base 16) Shenzhen Voxtech Co., Ltd.
Floors 1-4,Factory Building 26,Shancheng Industrial Park,Shiyan Street,Bao'an District,Shenzhen, Guangdong,China
Shenzhen 518000
CN

44-AD-B1 (hex) Sagemcom Broadband SAS
44ADB1 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

64-3A-EA (hex) Cisco Systems, Inc
643AEA (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

D0-14-11
(hex) IEEE Registration Authority
D01411 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

E4-26-8B (hex) Huawei Device Co., Ltd.
E4268B (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808

CN

C0-E3-A0 (hex) Renesas Electronics (Penang) Sdn. Bhd.
C0E3A0 (base 16) Renesas Electronics (Penang) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

8C-E4-68 (hex) Guangzhou Sageran Technology Co., Ltd.
8CE468 (base 16) Guangzhou Sageran Technology Co., Ltd.
Room 1902, Ruian Guangzhou Center, 374 Beijing Road, Yuexiu District
Guangzhou Guangdong 510030
CN

28-48-E7 (hex) Huawei Device Co., Ltd.
2848E7 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

2C-DB-07 (hex) Intel Corporate
2CDB07 (base 16) Intel Corporate
Lot 8, Jalan
Hi-Tech 2/3
Kulim Kedah 09000
MY

98-8D-46 (hex) Intel Corporate
988D46 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

68-88-A1 (hex) Universal Electronics, Inc.
6888A1 (base 16) Universal Electronics, Inc.
201 E. Sandpointe Ave
Santa Ana CA 92707
US

00-63-DE (hex) CLOUDWALK TECHNOLOGY CO.,LTD
0063DE (base 16) CLOUDWALK TECHNOLOGY CO.,LTD
Five Floors of Block 106, West Jinkai Avenue, Yubei District
Chongqing Chongqing 401120
CN

60-A4-23 (hex) Silicon Laboratories
60A423 (base 16) Silicon Laboratories
7000 W. William Cannon Dr.

Austin TX 78735
US

E4-3E-C6 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E43EC6 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

38-88-1E (hex) HUAWEI TECHNOLOGIES CO.,LTD
38881E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room
R6,Songshan Lake Technology Park
Dongguan 523808
CN

80-5F-C5 (hex) Apple, Inc.
805FC5 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

3C-4D-BE (hex) Apple, Inc.
3C4DBE (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

48-26-2C (hex) Apple, Inc.
48262C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

14-7D-DA (hex) Apple, Inc.
147DDA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C4-91-0C (hex) Apple, Inc.
C4910C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-16-93 (hex) PowerLink Technology Inc.
001693 (base 16) PowerLink Technology Inc.

N0. 18, Alley 1, Lane 151, Sec. 1, Jhongsing Rd., Wugu Township
Taipei Hsien 248
TW

AC-1F-09 (hex) shenzhen RAKwireless technology Co.,Ltd
AC1F09 (base 16) shenzhen RAKwireless technology Co.,Ltd
Room 506, Bldg B, New Compark, Pingshan
First Road, Taoyuan Street,Nanshan District
shenzhen guangdong 518057
CN

F8-51-28 (hex) SimpliSafe
F85128 (base 16) SimpliSafe
294 Washington St
Boston MA 02108
US

24-00-FA (hex) China Mobile (Hangzhou) Information Technology Co., Ltd
2400FA (base 16) China Mobile (Hangzhou) Information Technology Co., Ltd
No. 1600 Yuhangtang Road, Wuchang Street, Yuhang District
Hangzhou Zhejiang 311100
CN

50-E0-39 (hex) Zyxel Communications Corporation
50E039 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

B8-57-76 (hex) lignex1
B85776 (base 16) lignex1
354-25, Sanhodae-ro
Gumi-si Gyeongsangbuk-do, Korea 39262
KR

AC-23-34 (hex) Infinix mobility limited
AC2334 (base 16) Infinix mobility limited
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
HongKong HongKong 999077
HK

00-2B-67
(hex) LCFC(HeFei) Electronics Technology co., ltd
002B67 (base 16) LCFC(HeFei) Electronics Technology co., ltd
YunGu Road 3188-1
Hefei Anhui 230000
CN

F8-BC-0E (hex) eero inc.
F8BC0E (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

E0-19-95 (hex) Nutanix
E01995 (base 16) Nutanix
1740 Technology Drive Ste #150
San Jose CA 95110
US

FC-BC-0E (hex) Zhejiang Cainiao Supply Chain Management Co., Ltd
FCBC0E (base 16) Zhejiang Cainiao Supply Chain Management Co., Ltd
Block B1, XIXI center, No.588 West Wenyi Road, Xihu District
Hangzhou Zhejiang 310000
CN

10-F9-20 (hex) Cisco Systems, Inc
10F920 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

90-77-EE (hex) Cisco Systems, Inc
9077EE (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

3C-13-CC (hex) Cisco Systems, Inc
3C13CC (base 16) Cisco Systems,
Inc
80 West Tasman Drive
San Jose CA 94568
US

BC-13-A8 (hex) Shenzhen YOUHUA Technology Co., Ltd
BC13A8 (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

6C-99-61 (hex) Sagemcom Broadband SAS
6C9961 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848

FR

20-69-80 (hex) Apple, Inc.
206980 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D8-DC-40 (hex) Apple, Inc.
D8DC40 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

94-E3-EE (hex) zte corporation
94E3EE (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

B0-5C-DA (hex) HP Inc.
B05CDA (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

B0-1B-7C
(hex) Ontrol A.S.
B01B7C (base 16) Ontrol A.S.
Turcan Cad No:19 Y.Dudullu
Umraniye Istanbul 34775
TR

00-1C-70 (hex) NOVACOMM LTDA
001C70 (base 16) NOVACOMM LTDA
RUA BEIJUI, 70
São Paulo 04689-000
BR

00-0F-A4 (hex) Sprecher Automation GmbH
000FA4 (base 16) Sprecher Automation GmbH
Franckstrasse 51
Linz Oberösterreich 4018
AT

00-24-A2 (hex) Hong Kong Middleware Technology Limited
0024A2 (base 16) Hong Kong Middleware Technology Limited
Room 1315 ,Leighton Centre,77 Leighton Road

Causeway Bay 852
HK

18-DF-C1 (hex) Aetheros
18DFC1 (base 16) Aetheros
909 Montgomery Street, Suite 104
San Francisco 94133
US

84-A3-B5 (hex) Propulsion systems
84A3B5 (base 16) Propulsion systems
Dooren 72
Merchtem Vlaams brabant 1785
BE

9C-ED-FA (hex) EVUlution AG
9CEDFA (base 16) EVUlution AG
Via da Clalt 12
Poschiavo GR 7742
CH

EC-63-ED (hex) Hyundai
Autoever Corp.
EC63ED (base 16) Hyundai Autoever Corp.
38, Teheran-ro 114-gil
Gangnam-gu, Seoul 06176
KR

1C-13-38 (hex) Kimball Electronics Group, LLC
1C1338 (base 16) Kimball Electronics Group, LLC
1205 Kimball Blvd
Jasper IN 47546
US

E4-41-22 (hex) OnePlus Technology (Shenzhen) Co., Ltd
E44122 (base 16) OnePlus Technology (Shenzhen) Co., Ltd
18C02, 18C03, 18C04 ,18C05,TAIRAN BUILDING,
Shenzhen Guangdong 518000
CN

9C-19-C2 (hex) Dongguan Liesheng Electronic Co., Ltd.
9C19C2 (base 16) Dongguan Liesheng Electronic Co., Ltd.
F5, Building B, North Block, Gaosheng Tech Park, No. 84 Zhongli Road, Nancheng District, Dongguan Ci
dongguan guangdong 523000
CN

74-CB-F3 (hex) Lava international limited
74CBF3 (base 16) Lava international limited

A-154D, Sector-63
Noida Uttar Pradesh 201301
IN

2C-D0-66 (hex) Xiaomi Communications Co Ltd
2CD066 (base 16) Xiaomi Communications
Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

90-16-BA (hex) HUAWEI TECHNOLOGIES CO.,LTD
9016BA (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

DC-BD-7A (hex) Guangzhou Shiyuan Electronic Technology Company Limited
DCBD7A (base 16) Guangzhou Shiyuan Electronic Technology Company Limited
No.6, 4th Yunpu Road, Yunpu industry District
Guangzhou Guangdong 510530
CN

34-2E-B7 (hex) Intel Corporate
342EB7 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

BC-26-A1 (hex) FACTORY FIVE Corporation
BC26A1 (base 16) FACTORY FIVE Corporation
3-391-1, Kamikitadai,
Higashiyamato Tokyo 207-0023
JP

60-AA-EF (hex) Huawei Device Co., Ltd.
60AAEF (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan
Guangdong 523808
CN

D0-F3-F5 (hex) Huawei Device Co., Ltd.
D0F3F5 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

24-79-EF (hex) Greenpacket Berhad, Taiwan
2479EF (base 16) Greenpacket Berhad, Taiwan
B-23A-3, The Ascent Paradigm, No. 1, Jalan SS7/26A, Kelana Jaya, 47301 Petaling Jaya
Petaling Jaya Selangor 47301
MY

D4-46-49 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D44649 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

94-00-B0 (hex) HUAWEI TECHNOLOGIES CO.,LTD
9400B0 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

24-68-B0 (hex) Samsung Electronics Co.,Ltd
2468B0 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

30-FC-EB (hex) LG Electronics
(Mobile Communications)
30FCEB (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

B4-EF-1C (hex) 360 AI Technology Co.Ltd
B4EF1C (base 16) 360 AI Technology Co.Ltd
MTK Building B?No.6 Jiuxianqiao Road, Chaoyang District, Beijing, P.R.C.
Beijing Beijing 100015
CN

B8-F0-09 (hex) Espressif Inc.
B8F009 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

E8-B4-70 (hex) IEEE Registration Authority
E8B470 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

FC-71-FA (hex) Trane Technologies
FC71FA (base 16) Trane Technologies
6200 Troup Hwy.
Tyler TX 75707
US

00-02-D8 (hex) BRECIS Communications Corporation
0002D8 (base 16) BRECIS Communications Corporation
2025 Gateway Place, Suite 132
San Jose CA 95110
US

B0-45-02 (hex) Huawei Device
Co., Ltd.
B04502 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

1C-1F-F1 (hex) Huawei Device Co., Ltd.
1C1FF1 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

14-DE-39 (hex) Huawei Device Co., Ltd.
14DE39 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

04-F5-F4 (hex) Proxim Wireless
04F5F4 (base 16) Proxim Wireless
2114 Ringwood Ave
San Jose CA 95131
US

00-80-16 (hex) WANDEL AND GOLTERMANN
008016 (base 16) WANDEL AND GOLTERMANN
1030 SWABIA COURT
NC 27709
US

00-01-CC (hex) Japan Total Design Communication Co., Ltd.
0001CC (base 16) Japan Total Design Communication Co., Ltd.
Enesta Suginamihigashi Build., 3F,

JP

C8-BC-E5 (hex) Sense Things Japan INC.
C8BCE5 (base 16) Sense
Things Japan INC.
3-5-7 Kawaramachi,Chuo-ku
Osaka 541-0048
JP

F4-54-20 (hex) TELLESCOM INDUSTRIA E COMERCIO EM TELECOMUNICACAO
F45420 (base 16) TELLESCOM INDUSTRIA E COMERCIO EM TELECOMUNICACAO
Av. Buriti, 1900 – Setor B – Distrito Industrial
Manaus Amazonas 69075-000
BR

0C-81-7D (hex) EEP Elektro-Elektronik Pranjic GmbH
0C817D (base 16) EEP Elektro-Elektronik Pranjic GmbH
Am Luftschacht 21
Gelsenkirchen 45886
DE

64-DD-E9 (hex) Xiaomi Communications Co Ltd
64DDE9 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

4C-40-88 (hex) SANSHIN ELECTRONICS CO.,LTD.
4C4088 (base 16) SANSHIN ELECTRONICS CO.,LTD.
4-4-12, Shiba, Minato-ku,
Tokyo 108-8404
JP

00-9E-EE (hex) Positivo Tecnologia S.A.
009EEE (base 16) Positivo Tecnologia S.A.
João Bettega, 5200
Curitiba Paraná 81350-000
BR

00-A0-58
(hex) GLORY, LTD.
00A058 (base 16) GLORY, LTD.
1-3-1 SHIMOTENO, HIMEJI
HYOGO PREF. 670
JP

7C-9E-BD (hex) Espressif Inc.
7C9EBD (base 16) Espressif Inc.

Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

1C-02-19 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
1C0219 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

9C-61-1D (hex) Panasonic Corporation of North America
9C611D (base 16) Panasonic Corporation of North America
1200 Ridgeway Ave
Rochester NY 14615
US

F0-D5-BF (hex) Intel Corporate
F0D5BF (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

DC-D2-FC (hex) HUAWEI TECHNOLOGIES CO.,LTD
DCD2FC (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base,Bantian,Longgang,Shenzhen
ShenZhen GuangDong 518129
CN

60-F2-62
(hex) Intel Corporate
60F262 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

A4-B1-C1 (hex) Intel Corporate
A4B1C1 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-09-2E (hex) B&Tech System Inc.
00092E (base 16) B&Tech System Inc.
#601, Seo-Jung B/D, 830-24, Youksam-Dong
Seoul
KR

D4-1A-C8 (hex) Nippon Printer Engineering

D41AC8 (base 16) Nippon Printer Engineering
2660 Katsuyama
Fujikawaguchiko-town Yamanashi-Pref. 401-0310
JP

50-61-F6 (hex) Universal Electronics, Inc.
5061F6 (base 16) Universal Electronics, Inc.
201 E. Sandpointe Ave
Santa Ana CA 92707
US

F4-EB-9F (hex) Ellu Company 2019 SL
F4EB9F (base 16) Ellu Company 2019 SL
Paseo de la Castellana 144 14B
Madrid Madrid 28046
ES

E8-98-C2 (hex) ZETLAB Company
E898C2 (base 16) ZETLAB Company
Savelkinsky passage, 4
Zelenograd
Moscow 124482
RU

A4-C5-4E (hex) Huawei Device Co., Ltd.
A4C54E (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

D4-BB-E6 (hex) Huawei Device Co., Ltd.
D4BBE6 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

40-B6-E7 (hex) Huawei Device Co., Ltd.
40B6E7 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

D0-B4-5D (hex) Huawei Device Co., Ltd.
D0B45D (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

88-36-CF (hex) Huawei Device Co., Ltd.
8836CF (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

40-2F-86 (hex) LG Innotek
402F86 (base 16) LG Innotek
26, Hanamsandan 5beon-ro
Gwangju
Gwangsan-gu 506-731
KR

3C-80-6B (hex) Hunan Voc Acoustics Technology Co., Ltd.
3C806B (base 16) Hunan Voc Acoustics Technology Co., Ltd.
State Industrialpark, Jiulong Development Zone, Yanling County
Zhuzhou Hunan 412500
CN

60-DE-35 (hex) GITSN, Inc.
60DE35 (base 16) GITSN, Inc.
#601~602, Daerung Post Tower 1, 288, Digital-ro
Guro-gu Seoul 08390
KR

28-31-7E (hex) Hongkong Nano IC Technologies Co., Ltd
28317E (base 16) Hongkong Nano IC Technologies Co., Ltd
Rm. 19C, Lockhart Ctr., 301-307 Lockhart Rd., Wan Chai, Hong Kong.
Hongkong 999077
CN

94-05-BB (hex) IEEE Registration Authority
9405BB (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

40-BC-68 (hex) Wuhan Funshion Online Technologies Co.,Ltd
40BC68 (base 16) Wuhan Funshion Online Technologies Co.,Ltd
5th Floor,Financial Port Building A9,No.77 Optical Valley Avenue, East Lake High-Tech Development Zone, Wuhan
Wuhan CN/Hubei 430000
CN

B8-02-A4 (hex) Aeonsemi, Inc.
B802A4 (base 16) Aeonsemi, Inc.
Cassia Court, Suite 716, 10 Market Street
Camana Bay Grand Cayman KY1-9006

KY

CC-A7-C1 (hex) Google, Inc.
CCA7C1 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

8C-5F-AD (hex) Fiberhome Telecommunication Technologies Co.,LTD
8C5FAD (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

AC-C2-5D (hex) Fiberhome Telecommunication Technologies Co.,LTD
ACC25D (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

8C-0C-87 (hex) Nokia
8C0C87 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

E4-83-26 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E48326 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan
523808
CN

44-76-54 (hex) HUAWEI TECHNOLOGIES CO.,LTD
447654 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

7C-D9-A0 (hex) HUAWEI TECHNOLOGIES CO.,LTD
7CD9A0 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F0-33-E5 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F033E5 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park

Dongguan 523808
CN

6C-6A-77 (hex) Intel Corporate
6C6A77 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

18-69-D8 (hex) Tuya Smart Inc.
1869D8 (base 16) Tuya Smart Inc.
160 Greentree Drive, Suite 101
Dover DE 19904
US

C8-B2-9B (hex) Intel Corporate
C8B29B (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

CC-41-8E
(hex) MSA Innovation
CC418E (base 16) MSA Innovation
1100 Cranberry Woods Road
Cranberry Township PA 16066
US

68-49-B2 (hex) CARLO GAVAZZI LTD
6849B2 (base 16) CARLO GAVAZZI LTD
BLB042, Bulebel Industrial Estate
Zejtun ZTN 3000
MT

48-7A-FF (hex) ESSYS
487AFF (base 16) ESSYS
gaetbeol-ro
Incheon 21999
KR

C8-D7-78 (hex) BSH Hausgeraete GmbH
C8D778 (base 16) BSH Hausgeraete GmbH
Im Gewerbepark B10
Regensburg 93059
DE

C0-95-DA (hex) NXP India Private Limited
C095DA (base 16) NXP India Private Limited

1st Floor, Muttha Towers, Don Bosco Marg, Off Airport Road, Yerwada
Pune Maharashtra 411006
IN

B4-22-00 (hex) Brother Industries, LTD.
B42200 (base 16) Brother Industries, LTD.
15-1, Naeshirocho, Mizuho-ku
NAGOYA 4678561
JP

DC-98-40 (hex) Microsoft Corporation
DC9840 (base 16) Microsoft Corporation
One Microsoft Way
REDMOND
98052
US

B8-CE-F6 (hex) Mellanox Technologies, Inc.
B8CEF6 (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway, Suite 100
Sunnyvale CA 94085
US

B4-F1-8C (hex) Huawei Device Co., Ltd.
B4F18C (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C4-32-D1 (hex) Farlink Technology Limited
C432D1 (base 16) Farlink Technology Limited
Flat A&B,9/F,Wing Cheong Factory Building,121 King Lam Street,Cheung Sha Wan,Hong Kong.
Hongkong 0000
HK

6C-DD-BC (hex) Samsung Electronics Co.,Ltd
6CDDBC (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

18-6F-2D (hex) Shenzhen Sundray Technologies Company Limited
186F2D (base 16) Shenzhen Sundray Technologies Company Limited
5th Floor, Block A4, Nanshan ipark,NO.1001 Xue Yuan Road, Nanshan District, Shenzhen 518055, P.R. China
Shenzhen Guangdong 518057
CN

F8-4F-AD

(hex) Hui Zhou Gaoshengda Technology Co.,LTD
F84FAD (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.75,Zhongkai High-Tech Development District,Huizhou
Hui Zhou Guangdong 516006
CN

4C-0A-3D (hex) ADNACOM INC.
4C0A3D (base 16) ADNACOM INC.
200-5050 Kingsway
Burnaby BC V5H 4H2
CA

CC-7F-76 (hex) Cisco Systems, Inc
CC7F76 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A8-41-22 (hex) China Mobile (Hangzhou) Information Technology Co.,Ltd.
A84122 (base 16) China Mobile (Hangzhou) Information Technology Co.,Ltd.
No. 1600 Yuhangtang Road, Wuchang Street, Yuhang District
Hangzhou Zhejiang 310000
CN

E8-AB-FA (hex) Shenzhen Reecam Tech.Ltd.
E8ABFA (base 16) Shenzhen Reecam Tech.Ltd.
Room 03D-1 , North Wing Of 3 rd Floor, Block 1 , Vision Shenzhen Business Park
Nanshan District, Shenzhen Guangdong 518052
CN

B0-CC-FE (hex) Huawei Device Co.,
Ltd.
B0CCFE (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

54-0D-F9 (hex) Huawei Device Co., Ltd.
540DF9 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

00-66-19 (hex) Huawei Device Co., Ltd.
006619 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

20-6D-31 (hex) FIREWALLA INC
206D31 (base 16) FIREWALLA INC
75 E. Santa Clara St. STE 600
San Jose CA 95113
US

14-47-2D (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
14472D (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

28-40-1A (hex) C8 MediSensors, Inc.
28401A (base 16) C8 MediSensors, Inc.
727 University Ave
Los Gatos CA 95032
US

E4-5E-37 (hex) Intel Corporate
E45E37
(base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

E4-90-FD (hex) Apple, Inc.
E490FD (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

84-AB-1A (hex) Apple, Inc.
84AB1A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D0-65-44 (hex) Apple, Inc.
D06544 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-0E-9E (hex) Topfield Co., Ltd
000E9E (base 16) Topfield Co., Ltd
4th floor, Deoksan Bldg 260-4, Seohyun-dong
Seongnam Bundang-Ku 463-824

KR

90-E2-FC (hex) IEEE Registration Authority
90E2FC (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

C8-53-E1 (hex) Beijing Bytedance Network Technology Co., Ltd
C853E1 (base 16) Beijing Bytedance Network Technology Co., Ltd
No.1 Building, Zhonghang Square, West Road of the Northern 3rd Circuit, Haidian Distrct
Beijing
Beijing 100098
CN

FC-39-64 (hex) ITEL MOBILE LIMITED
FC3964 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

8C-3B-32 (hex) Microfan B.V.
8C3B32 (base 16) Microfan B.V.
Industriestraat 23
Horst Limburg 5961 PH
NL

D0-D3-E0 (hex) Aruba, a Hewlett Packard Enterprise Company
D0D3E0 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

3C-58-C2 (hex) Intel Corporate
3C58C2 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

CC-F9-E4 (hex) Intel Corporate
CCF9E4 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-0C-1E (hex) Global Cache
000C1E (base 16) Global Cache
160 East California Street

Jacksonville OR 97530
US

F0-08-D1 (hex) Espressif Inc.
F008D1 (base 16) Espressif
Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

14-AE-85 (hex) IEEE Registration Authority
14AE85 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

64-5C-F3 (hex) ParanTek Inc.
645CF3 (base 16) ParanTek Inc.
3F, 40-15 Gilju-Ro, 411 Beon-Gil
Wonmi-Gu, Bucheon City Gyeonggi-Do 14488
KR

90-74-9D (hex) IRay Technology Co., Ltd.
90749D (base 16) IRay Technology Co., Ltd.
11th Guiyang St.,
Yantai Shandong 264000
CN

3C-5C-F1 (hex) eero inc.
3C5CF1 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

CC-D4-2E (hex) Arcadyan Corporation
CCD42E (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

58-94-B2 (hex) BrainCo
5894B2 (base 16) BrainCo
????????????????1107?
??? ??? 518000
CN

B0-95-75 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
B09575

(base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

14-16-9D (hex) Cisco Systems, Inc
14169D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

48-A2-E6 (hex) Resideo
48A2E6 (base 16) Resideo
2 Corporate Center Dr.
Melville NY 11747
US

B4-B0-55 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B4B055 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

04-8C-16 (hex) HUAWEI TECHNOLOGIES CO.,LTD
048C16 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

98-DD-5B (hex) TAKUMI JAPAN LTD
98DD5B (base 16) TAKUMI JAPAN LTD
3-9-3 Uchiyama building 7F Nishishinbashi
Minato-ku Tokyo Tokyo 1050003
JP

E0-BB-9E (hex) Seiko
Epson Corporation
E0BB9E (base 16) Seiko Epson Corporation
2070 Kotobuki Koaka
Matsumoto-shi Nagano-ken 399-8702
JP

48-D2-4F (hex) Sagemcom Broadband SAS
48D24F (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

E4-AA-EC (hex) Tianjin Hualai Technology Co., Ltd
E4AAEC (base 16) Tianjin Hualai Technology Co., Ltd
Overseas Chinese business building No. 10, Jinping Road, Nankai District, Tianjin
TIANJIN 300190
CN

94-BE-46 (hex) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
94BE46 (base 16) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
No.19, Gaoxin 4th Road, Wuhan East Lake High-tech Zone, Wuhan
Wuhan Hubei 430000
CN

58-27-8C (hex) BUFFALO.INC
58278C (base 16) BUFFALO.INC
AKAMONDORI Bld.,30-20,Ohsu 3-chome,Naka-ku
Nagoya Aichi Pref. 460-8315
JP

14-0A-C5 (hex) Amazon Technologies
Inc.
140AC5 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

48-3F-DA (hex) Espressif Inc.
483FDA (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

2C-DC-D7 (hex) AzureWave Technology Inc.
2CDCD7 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

C8-C7-50 (hex) Motorola Mobility LLC, a Lenovo Company
C8C750 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

6C-5D-3A (hex) Microsoft Corporation
6C5D3A (base 16) Microsoft Corporation
One Microsoft Way
REDMOND 98052
US

AC-F8-CC (hex) ARRIS Group, Inc.
ACF8CC (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

8C-5A-25 (hex) ARRIS Group, Inc.
8C5A25 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA
92121
US

8C-C6-81 (hex) Intel Corporate
8CC681 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

20-83-F8 (hex) Advanced Digital Broadcast SA
2083F8 (base 16) Advanced Digital Broadcast SA
Route de Lausanne 319
Bellevue CH-1293
SZ

9C-54-DA (hex) SkyBell Technologies Inc.
9C54DA (base 16) SkyBell Technologies Inc.
1 Jenner
Irvine CA 92618
US

4C-49-4F (hex) zte corporation
4C494F (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

C4-74-1E (hex) zte corporation
C4741E (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

00-1D-7D (hex) GIGA-BYTE TECHNOLOGY CO.,LTD.
001D7D (base 16) GIGA-BYTE TECHNOLOGY CO.,LTD.
Pin-Jen City, Taoyuan, Taiwan, R.O.C.
Pin-Jen Taoyuan 324

TW

1C-6F-65 (hex) GIGA-BYTE TECHNOLOGY
CO.,LTD.
1C6F65 (base 16) GIGA-BYTE TECHNOLOGY CO.,LTD.
Pin-Jen City, Taoyuan, Taiwan, R.O.C.
Pin-Jen Taoyuan 324
TW

00-24-1D (hex) GIGA-BYTE TECHNOLOGY CO.,LTD.
00241D (base 16) GIGA-BYTE TECHNOLOGY CO.,LTD.
Pin-Jen City, Taoyuan, Taiwan, R.O.C.
Pin-Jen Taoyuan 324
TW

DC-89-83 (hex) Samsung Electronics Co.,Ltd
DC8983 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D4-60-75 (hex) Baidu Online Network Technology (Beijing) Co., Ltd
D46075 (base 16) Baidu Online Network Technology (Beijing) Co., Ltd
Baidu Campus, No.10 Shangdi 10th Street, Haidian District
Beijing 100085
CN

78-C5-F8 (hex) Huawei Device Co., Ltd.
78C5F8 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

5C-78-F8 (hex) Huawei Device Co., Ltd.
5C78F8 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan
Lake Zone
Dongguan Guangdong 523808
CN

B8-27-C5 (hex) Huawei Device Co., Ltd.
B827C5 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

5C-CB-99 (hex) Samsung Electronics Co.,Ltd
5CCB99 (base 16) Samsung Electronics Co.,Ltd

#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

90-B1-44 (hex) Samsung Electronics Co.,Ltd
90B144 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D4-5D-64 (hex) ASUSTek COMPUTER INC.
D45D64 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

38-EC-0D (hex) Apple, Inc.
38EC0D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

48-DD-0C (hex) eero inc.
48DD0C (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

94-0C-98 (hex) Apple, Inc.
940C98 (base 16) Apple, Inc.
1
Infinite Loop
Cupertino CA 95014
US

E8-FB-E9 (hex) Apple, Inc.
E8FBE9 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

14-2A-14 (hex) ShenZhen Selenview Digital Technology Co.,Ltd
142A14 (base 16) ShenZhen Selenview Digital Technology Co.,Ltd
615,Block A,Huafeng internet Creative Park,107 Gonghe Industrial Road,Baoan District,Shenzhen,China
Shenzhen Guangdong 518102
CN

B8-61-42 (hex) Beijing Tricolor Technology Co., Ltd

B86142 (base 16) Beijing Tricolor Technology Co., Ltd
Room 808, Building 1, Yard 39, Linfeng 2nd Road, Haidian
Beijing 102206
CN

38-4B-5B (hex) ZTRON TECHNOLOGY LIMITED
384B5B (base 16) ZTRON TECHNOLOGY LIMITED
12/F,JunZi Plaza, Qiaoxiang Road, Futian District
Shenzhen Guangdong 518000
CN

E4-7C-65 (hex) Sunstar Communication Technology Co., Ltd
E47C65 (base 16) Sunstar Communication Technology Co., Ltd
4F,Building D1, Mould Industrial Park, No.199
of Xiqu Ave,West High-tech Zone
Chengdu Sichuan 611731
CN

34-E3-DA (hex) Hoval Aktiengesellschaft
34E3DA (base 16) Hoval Aktiengesellschaft
Austrasse 70
Vaduz 9490
LI

D8-7E-76 (hex) ITEL MOBILE LIMITED
D87E76 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

A4-30-7A (hex) Samsung Electronics Co.,Ltd
A4307A (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

00-A0-B3 (hex) ZYKRONIX
00A0B3 (base 16) ZYKRONIX
7248 SOUTH TUCSON WAY
ENGLEWOOD CO 80112
US

20-0A-0D (hex) IEEE Registration Authority
200A0D (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

2C-E3-10 (hex) Stratacache
2CE310 (base 16) Stratacache
40 N Main St, Suite 2600
Dayton OH 45423
US

E4-F3-27 (hex) ATOL LLC
E4F327
(base 16) ATOL LLC
Bolshaya Novodmitrovskaya str., 14, build 4
Moscow 127015
RU

68-19-AC (hex) Guangzhou Xianyou Intelligent Technogoly CO., LTD
6819AC (base 16) Guangzhou Xianyou Intelligent Technogoly CO., LTD
No.32 Xixiu Road, Xiuquan Street,Huadu District
Guangzhou Guangdong 510800
CN

E8-2E-0C (hex) NETINT Technologies Inc.
E82E0C (base 16) NETINT Technologies Inc.
#306, 3500 Gilmore Way
Burnaby BC V5G0B8
CA

18-92-A4 (hex) Ciena Corporation
1892A4 (base 16) Ciena Corporation
7035 Ridge Road
Hanover MD 21076
US

B0-73-5D (hex) Huawei Device Co., Ltd.
B0735D (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

F0-B4-D2 (hex) D-Link International
F0B4D2 (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

5C-3A-45 (hex) CHONGQING FUGUI ELECTRONICS
CO.,LTD.
5C3A45 (base 16) CHONGQING FUGUI ELECTRONICS CO.,LTD.
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332

CN

14-11-5D (hex) Skyworth Digital Technology(Shenzhen) Co.,Ltd
14115D (base 16) Skyworth Digital Technology(Shenzhen) Co.,Ltd
7F,Block A,Skyworth Building,
Shenzhen Guangdong 518057
CN

FC-8E-5B (hex) China Mobile Iot Limited company
FC8E5B (base 16) China Mobile Iot Limited company
No. 8 Yangliu North Road, Yubei District, Chongqing, China
Chong Qing Chong Qing 401120
CN

40-4C-77 (hex) ARRIS Group, Inc.
404C77 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

A8-97-CD (hex) ARRIS Group, Inc.
A897CD (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

A0-3C-31 (hex) Shenzhen Belon Technology CO.,LTD
A03C31 (base 16) Shenzhen Belon Technology CO.,LTD
Tsinghua Information
Shenzhen
Guangdong 518052
CN

10-08-2C (hex) Texas Instruments
10082C (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

90-13-DA (hex) Athom B.V.
9013DA (base 16) Athom B.V.
Rigtersbleek-Zandvoort 10
Enschede 7521BE
NL

D4-9E-3B (hex) Guangzhou Shiyuan Electronic Technology Company Limited
D49E3B (base 16) Guangzhou Shiyuan Electronic Technology Company Limited
No.6, 4th Yunpu Road, Yunpu industry District

Guangzhou Guangdong 510530
CN

DC-4B-DD (hex) Shenzhen SuperElectron Technology Co.,Ltd.
DC4BDD (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen Guangdong 518000
CN

C0-B5-CD (hex) Huawei Device Co., Ltd.
C0B5CD (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

4C-50-77 (hex) Huawei
Device Co., Ltd.
4C5077 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

50-2D-BB (hex) GD Midea Air-Conditioning Equipment Co.,Ltd.
502DBB (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
Midea Global Innovation Center,Beijiao Town,Shunde
Foshan Guangdong 528311
CN

7C-A1-AE (hex) Apple, Inc.
7CA1AE (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

58-EA-FC (hex) ELL-IoT Inc
58EAFC (base 16) ELL-IoT Inc
32 Journey
Aliso Viejo CA 92656
US

5C-3A-3D (hex) zte corporation
5C3A3D (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

30-FD-65 (hex) HUAWEI TECHNOLOGIES CO.,LTD
30FD65 (base 16) HUAWEI TECHNOLOGIES CO.,LTD

No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

3C-22-FB (hex) Apple, Inc.
3C22FB
(base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

80-E4-55 (hex) New H3C Technologies Co., Ltd
80E455 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

00-90-9E (hex) Critical IO, LLC
00909E (base 16) Critical IO, LLC
485 E. 17th Street
Costa Mesa CA 92627
US

38-E8-EE (hex) Nanjing Youkuo Electric Technology Co., Ltd
38E8EE (base 16) Nanjing Youkuo Electric Technology Co., Ltd
100 Jiangjun Road,Jiangning
Nanjing Jiangsu 211100
CN

90-B8-E0 (hex) SHENZHEN YANRAY TECHNOLOGY CO.,LTD
90B8E0 (base 16) SHENZHEN YANRAY TECHNOLOGY CO.,LTD
5A, 4th Building, Huafengzhenbao Industrial Park, Beihuan Road, Shiyan Street, Baoan District,
Shenzhen Guangdong 518000
CN

2C-4C-C6 (hex) Murata Manufacturing Co., Ltd.
2C4CC6 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto
617-8555
JP

68-02-B8 (hex) Compal Broadband Networks, Inc.
6802B8 (base 16) Compal Broadband Networks, Inc.
13F., No.1, Taiyuan 1st St.
Zhubei City Hsinchu County 30265
TW

34-63-D4 (hex) BIONIX SUPPLYCHAIN TECHNOLOGIES SLU
3463D4 (base 16) BIONIX SUPPLYCHAIN TECHNOLOGIES SLU
Poligono Pocomaco Avenida Primera Parcela B3 Nave F
La Coruña La Coruña 15190
ES

08-F7-E9 (hex) HRCP Research and Development Partnership
08F7E9 (base 16) HRCP Research and Development Partnership
1-24-2 Taito, Taito-ku
Tokyo 1100016
JP

44-03-77 (hex) IEEE Registration Authority
440377 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

08-12-A5 (hex) Amazon Technologies Inc.
0812A5 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

9C-F5-31 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
9CF531 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

C8-09-A8 (hex) Intel Corporate
C809A8 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

74-8B-34 (hex) Shanghai Smart System Technology Co., Ltd
748B34 (base 16) Shanghai Smart System Technology Co., Ltd
Room 902C-1, 560 Shengxia Road, Zhangjiang Hi-Tech Park, Shanghai 201203, China
Shanghai Shanghai 201210
CN

4C-BC-72 (hex) Primex Wireless
4CBC72 (base 16) Primex Wireless
965 Wells Street
Lake Geneva WI 53147
US

DC-DC-E2 (hex) Samsung Electronics Co.,Ltd
DCDCE2 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A0-AC-69 (hex) Samsung Electronics Co.,Ltd
A0AC69 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

10-89-FB (hex) Samsung Electronics Co.,Ltd
1089FB (base 16) Samsung Electronics Co.,Ltd
#94-1,
Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D4-77-2B (hex) Nanjing Ztlink Network Technology Co.,Ltd
D4772B (base 16) Nanjing Ztlink Network Technology Co.,Ltd
No.0 Mozhou East Road , Jiangning Economic & Technological Development Zone, Jiangning District
Nanjing Jiangsu 211111
CN

64-F9-C0 (hex) ANALOG DEVICES
64F9C0 (base 16) ANALOG DEVICES
32990 ALVARADO NILES RD
UNION CITY CA 94587
US

BC-A5-11 (hex) NETGEAR
BCA511 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

F8-C4-F3 (hex) Shanghai Infinity Wireless Technologies Co.,Ltd.
F8C4F3 (base 16) Shanghai Infinity Wireless Technologies Co.,Ltd.
Room 522, Building A, No.1687 Changyang Road, Yangpu District, Shanghai
Shanghai Shanghai 200082
CN

C4-E9-0A (hex) D-Link International
C4E90A (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917

SG

18-D0-C5 (hex) GUANGDONG
OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
18D0C5 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

AC-BD-70 (hex) Huawei Device Co., Ltd.
ACBD70 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

30-E9-8E (hex) HUAWEI TECHNOLOGIES CO.,LTD
30E98E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C4-44-7D (hex) HUAWEI TECHNOLOGIES CO.,LTD
C4447D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

70-F8-2B (hex) DWnet Technologies(Suzhou) Corporation
70F82B (base 16) DWnet Technologies(Suzhou) Corporation
No.8,Tangzhuang Road, Suzhou Industrial Park, Jiangsu, China
Suzhou 21500
CN

D4-F5-EF (hex) Hewlett Packard Enterprise
D4F5EF
(base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

44-CB-8B (hex) LG Innotek
44CB8B (base 16) LG Innotek
26, Hanamsandan 5beon-ro
Gwangju Gwangsan-gu 506-731
KR

B4-05-5D (hex) Inspur Electronic Information Industry Co.,Ltd.
B4055D (base 16) Inspur Electronic Information Industry Co.,Ltd.

No 224 Shanda Road
Jinan Shandong 250013
CN

EC-1B-BD (hex) Silicon Laboratories
EC1BBD (base 16) Silicon Laboratories
7000 W. William Cannon Dr.
Austin 78735
US

10-DC-B6 (hex) IEEE Registration Authority
10DCB6 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

D8-A3-15 (hex) vivo Mobile Communication Co., Ltd.
D8A315 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

14-A1-BF (hex) ASSA ABLOY Korea Co., Ltd Unilock
14A1BF (base 16) ASSA ABLOY
Korea Co., Ltd Unilock
10f of JEI PLATZ Bldg., 186, Gasandigital 1-ro
Geumcheon-gu Seoul 08502
KR

94-83-C4 (hex) GL Technologies (Hong Kong) Limited
9483C4 (base 16) GL Technologies (Hong Kong) Limited
103B Enterprise Place, 5W Science Park
NT 00000
HK

9C-93-B0 (hex) Megatronix (Beijing) Technology Co., Ltd.
9C93B0 (base 16) Megatronix (Beijing) Technology Co., Ltd.
Floor11,Building C, Rongxin Center Chungyuan Road 34#, chaoyang distric, Beijing, P.R.China
Beijing Beijing 100012
CN

64-AE-F1 (hex) Qingdao Hisense Electronics Co.,Ltd.
64AEF1 (base 16) Qingdao Hisense Electronics Co.,Ltd.
Qianwangang Roard 218
Qingdao Shandong 266510
CN

04-8C-9A (hex) Huawei Device Co., Ltd.

048C9A (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

EC-3C-BB (hex) Huawei Device Co., Ltd.
EC3CBB (base 16) Huawei Device Co., Ltd.
No.2
of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

28-BD-89 (hex) Google, Inc.
28BD89 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

98-48-27 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
984827 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

34-ED-1B (hex) Cisco Systems, Inc
34ED1B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

14-24-75 (hex) 4DReplay, Inc
142475 (base 16) 4DReplay, Inc
1286 Folsom Street
San Francisco CA 94103
US

80-64-7A (hex) Ola Sense Inc
80647A (base 16) Ola Sense Inc
764 Avenue A
Redondo Beach 90277
US

C0-B8-83 (hex) Intel Corporate
C0B883 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

70-44-1C (hex) SHENZHEN
KAIFA TECHNOLOGY CO.,LTD.
70441C (base 16) SHENZHEN KAIFA TECHNOLOGY CO.,LTD.
7006 Caitian Rd., Futian Dist.
Shen Zhen Guang Dong 518035
CN

1C-EA-0B (hex) Edgecore Networks Corporation
1CEA0B (base 16) Edgecore Networks Corporation
1 Creation RD 3.
Hsinchu 30077
TW

24-41-8C (hex) Intel Corporate
24418C (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

44-EF-BF (hex) China Dragon Technology Limited
44EFBF (base 16) China Dragon Technology Limited
B4 Bldg.Haoshan 1st Industry Park,
Shenzhen Guangdong 518104
CN

4C-B4-4A (hex) NANOWAVE Technologies Inc.
4CB44A (base 16) NANOWAVE Technologies Inc.
425 Horner Avenue
Etobicoke Ontario M8W 4W3
CA

F8-D0-27 (hex) Seiko Epson Corporation
F8D027 (base 16) Seiko Epson Corporation
2070 Kotobuki Koaka
Matsumoto-shi Nagano-ken 399-8702
JP

5C-66-6C (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS
CORP.,LTD
5C666C (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

4C-4B-F9 (hex) IEEE Registration Authority
4C4BF9 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554

US

88-D5-A8 (hex) ITEL MOBILE LIMITED
88D5A8 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

B8-1F-5E (hex) Apption Labs Limited
B81F5E (base 16) Apption Labs Limited
7-8 Westbridge Close
Leicester LE3 5LW
GB

D8-12-65 (hex) CHONGQING FUGUI ELECTRONICS CO.,LTD.
D81265 (base 16) CHONGQING FUGUI ELECTRONICS CO.,LTD.
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

8C-3A-7E (hex) Universal Electronics, Inc.
8C3A7E (base 16) Universal Electronics, Inc.
201 E. Sandpointe Ave
Santa
Ana CA 92707
US

20-85-93 (hex) IEEE Registration Authority
208593 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

B4-7C-59 (hex) Jiangsu Hengxin Technology Co.,Ltd.
B47C59 (base 16) Jiangsu Hengxin Technology Co.,Ltd.
No.138 Taodu Road,Yixing city,Jiangsu Province,China
Yixing Jiangsu 214200
CN

30-0D-9E (hex) Ruijie Networks Co.,LTD
300D9E (base 16) Ruijie Networks Co.,LTD
20# Building,Star-net Science Plaza,Juyuanzhou, 618 Jinshan Road
Fuzhou Fujian 350002
CN

BC-B0-E7 (hex) HUAWEI TECHNOLOGIES CO.,LTD
BCB0E7 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park

Dongguan 523808
CN

54-34-EF (hex) HUAWEI TECHNOLOGIES CO.,LTD
5434EF (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

EC-FA-5C (hex) Beijing Xiaomi Electronics
Co., Ltd.
ECFA5C (base 16) Beijing Xiaomi Electronics Co., Ltd.
Building C, QingHe ShunShiJiaYe Technology Park, #66 ZhuFang Rd, HaiDian District
Beijing Beijing 10085
CN

F8-B4-6A (hex) Hewlett Packard
F8B46A (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston TX 77070
US

AC-E3-42 (hex) HUAWEI TECHNOLOGIES CO.,LTD
ACE342 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

90-17-C8 (hex) HUAWEI TECHNOLOGIES CO.,LTD
9017C8 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E4-92-2A (hex) DBG HOLDINGS LIMITED
E4922A (base 16) DBG HOLDINGS LIMITED
UNIT D, 6/F., UNISON INDUSTRIAL CENTRE, 27-31 AUPUI WAN STREET, FOTAN, N.T.
Hong Kong 999077
HK

48-01-C5 (hex) OnePlus Technology (Shenzhen) Co., Ltd
4801C5 (base 16) OnePlus Technology (Shenzhen)
Co., Ltd
18C02, 18C03, 18C04 ,18C05,TAIRAN BUILDING,
Shenzhen Guangdong 518000
CN

18-BF-1C (hex) Jiangsu Huitong Group Co.,Ltd.

18BF1C (base 16) Jiangsu Huitong Group Co.,Ltd.
No. 24, Block 2, Taohuawu New District
Zhenjiang Jiangsu 212003
CN

20-77-59 (hex) OPTICAL NETWORK VIDEO TECHNOLOGIES (SHENZHEN) CO., LTD.
207759 (base 16) OPTICAL NETWORK VIDEO TECHNOLOGIES (SHENZHEN) CO., LTD.
The 4-6th Floor, No. 59, HuaNing Road, Xinwei Community, Dalang Street, Longhua District
Shenzhen 518000
CN

88-9D-98 (hex) Allied-telesisK.K.
889D98 (base 16) Allied-telesisK.K.
7-21-11 Nishi-Gotannda
Shinagawa-ku Tokyo 141-0031
JP

4C-56-DF (hex) Targus US LLC
4C56DF (base 16) Targus US LLC
1211 North Miller Street
Anaheim CA 92806
US

B4-EE-25 (hex) Shenzhen Belon Technology CO.,LTD
B4EE25 (base 16) Shenzhen Belon Technology CO.,LTD
Tsinghua Information
Shenzhen Guangdong
518052
CN

C8-2B-96 (hex) Espressif Inc.
C82B96 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

98-52-3D (hex) Sunitec Enterprise Co.,Ltd
98523D (base 16) Sunitec Enterprise Co.,Ltd
3F.,No.98-1,Mincyuan Rd.Sindian City
Taipei County 231 231141
CN

DC-F8-B9 (hex) zte corporation
DCF8B9 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

18-90-88 (hex) eero inc.
189088 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

2C-64-1F (hex) Vizio, Inc
2C641F (base 16) Vizio, Inc
39 Tesla
Irvine CA 92618
US

54-E7-D5 (hex) Sun Cupid Technology (HK) LTD
54E7D5 (base 16) Sun Cupid Technology (HK) LTD
Room 1201-3, 12/F., Tower 6
Tsim Sha Tsui
HK

24-15-10 (hex) IEEE Registration Authority
241510 (base 16) IEEE Registration Authority
445
Hoes Lane
Piscataway NJ 08554
US

6C-4D-51 (hex) Shenzhen Ceres Technology Co., Ltd.
6C4D51 (base 16) Shenzhen Ceres Technology Co., Ltd.
#601, Fl6, Bldg F, No.1008 Yangguang Community, Xili, Nanshan
Shenzhen Guangdong 518055
CN

04-81-9B (hex) SKY UK LIMITED
04819B (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

2C-A8-9C (hex) Creatz inc.
2CA89C (base 16) Creatz inc.
16, Deogyeong-daero 1556beon-gil, Yeongtong-gu
Suwon-si, Gyeonggi-do, 16690
KR

4C-DC-0D (hex) Coral Telecom Limited
4CDC0D (base 16) Coral Telecom Limited
E-2, Sector 63
Noida Uttar Pradesh 201301
IN

D0-15-A6 (hex) Aruba, a Hewlett Packard Enterprise Company
D015A6 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

00-01-63 (hex) Cisco Systems, Inc
000163 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose
CA 94568
US

60-70-C0 (hex) Apple, Inc.
6070C0 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-C3-71 (hex) Apple, Inc.
F0C371 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

18-55-E3 (hex) Apple, Inc.
1855E3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

60-63-4C (hex) D-Link International
60634C (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

E0-00-84 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E00084 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-00-DE (hex) CETIA
0000DE (base 16) CETIA
150 RUE BERTHELOT

FR

F4-3E-66 (hex) Bee Computing (HK) Limited
F43E66 (base 16) Bee Computing (HK) Limited
Room 1902, 19/F, Lee Garden One 33 Hysan Avenue, Causeway Bay
Hong Kong
100043
HK

DC-39-6F (hex) AVM Audiovisuelles Marketing und Computersysteme GmbH
DC396F (base 16) AVM Audiovisuelles Marketing und Computersysteme GmbH
Alt-Moabit 95
Berlin Berlin 10559
DE

B4-C4-76 (hex) Wuhan Maritime Communication Research Institute
B4C476 (base 16) Wuhan Maritime Communication Research Institute
No.312 Luoyu road, Hongshan District
Wuhan Hubei 430079
CN

68-34-89 (hex) LEA Professional
683489 (base 16) LEA Professional
635 S. Lafayette Blvd
South Bend IN 46601
US

9C-3A-9A (hex) Shenzhen Sundray Technologies Company Limited
9C3A9A (base 16) Shenzhen Sundray Technologies Company Limited
5th Floor, Block A4, Nanshan ipark,NO.1001 Xue Yuan Road, Nanshan District, Shenzhen 518055, P.R. China
Shenzhen Guangdong 518057
CN

B4-6C-47 (hex) Panasonic Appliances Company
B46C47 (base 16) Panasonic Appliances Company
2-3-1-2 Noji-higashi
Kusatsu City Shiga 525-8555
JP

94-BF-80
(hex) zte corporation
94BF80 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

64-FF-0A (hex) Wistron Neweb Corporation
64FF0A (base 16) Wistron Neweb Corporation

No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu R.O.C. 308
TW

44-42-2F (hex) TESTOP CO.,LTD.
44422F (base 16) TESTOP CO.,LTD.
808RM Hanshin IT Tower ,272, Digital-ro
Guro-gu Seoul 08389
KR

54-9C-27 (hex) Plasma Cloud Limited
549C27 (base 16) Plasma Cloud Limited
5/F, Yat Chau Building, 262 Des Voeux Road Central
Hong Kong NA
HK

54-15-89 (hex) MCS Logic Inc.
541589 (base 16) MCS Logic Inc.
A-1701, Munjeong-dong, SK V1 GL Metro City, 128, Beobwon-ro, Songpa-gu,
seoul seoul 05854
KR

84-57-33 (hex) Microsoft Corporation
845733 (base 16) Microsoft Corporation
One Microsoft Way
REDMOND 98052
US

3C-EC-EF (hex) Super
Micro Computer, Inc.
3CECEF (base 16) Super Micro Computer, Inc.
980 Rock Ave
San Jose CA 95131
US

E4-50-EB (hex) Apple, Inc.
E450EB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

88-64-40 (hex) Apple, Inc.
886440 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C4-E1-A1 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD

C4E1A1 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

AC-C3-58 (hex) Continental Automotive Czech Republic s.r.o.
ACC358 (base 16) Continental Automotive Czech Republic s.r.o.
Prmyslová 1851
Brandýs nad Labem 250 01
CZ

F0-99-19 (hex) Garmin International
F09919 (base 16) Garmin International
1200 E. 151st St
Olathe KS 66062
US

58-F3-9C (hex) Cisco Systems, Inc
58F39C (base 16) Cisco Systems, Inc
170 West Tasman Drive
San
Jose CA 95134
US

00-24-23 (hex) AzureWave Technologies (Shanghai) Inc.
002423 (base 16) AzureWave Technologies (Shanghai) Inc.
NO. 8, LANE 66, CHENGBAO RD.
SHANGHAI 201801
CN

8C-59-3C (hex) IEEE Registration Authority
8C593C (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

00-AD-63 (hex) Dedicated Micros Malta LTD
00AD63 (base 16) Dedicated Micros Malta LTD
Blb017, Qasam Industrijali Bulebel
ZEJTUN ZTN 3000
MT

60-29-D5 (hex) DAVOLINK Inc.
6029D5 (base 16) DAVOLINK Inc.
112, Beolmal-ro
Dongan-gu, Anyang-si Gyeonggi-do 14057
KR

50-97-44 (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
509744 (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

98-7A-14 (hex) Microsoft Corporation
987A14 (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

C8-3D-DC
(hex) Xiaomi Communications Co Ltd
C83DDC (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

B0-B5-E8 (hex) Ruroc LTD
B0B5E8 (base 16) Ruroc LTD
Unit 2, Barnett Way, Barnwood Estate
Gloucester GL4 3RT
GB

E4-15-F6 (hex) Texas Instruments
E415F6 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

80-91-33 (hex) AzureWave Technology Inc.
809133 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

18-19-D6 (hex) Samsung Electronics Co.,Ltd
1819D6 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

70-FC-8F (hex) FREEBOX SAS
70FC8F (base 16) FREEBOX SAS
16 rue de la Ville l'Eveque
PARIS IdF 75008
FR

50-1B-32 (hex) Taicang T&W Electronics
501B32 (base 16) Taicang T&W Electronics
89#
Jiang Nan RD
Suzhou Jiangsu 215412
CN

14-AD-CA (hex) China Mobile Iot Limited company
14ADCA (base 16) China Mobile Iot Limited company
No. 8 Yangliu North Road, Yubei District, Chongqing, China
Chong Qing Chong Qing 401120
CN

CC-90-70 (hex) Cisco Systems, Inc
CC9070 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

28-41-C6 (hex) HUAWEI TECHNOLOGIES CO.,LTD
2841C6 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-77-E4 (hex) Nokia Solutions and Networks GmbH & Co. KG
0077E4 (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541
DE

38-01-18 (hex) ULVAC,Inc.
380118 (base 16) ULVAC,Inc.
2500 Hagizono
Chigasaki Kanagawa 253-8543
JP

F4-1D-6B (hex) HUAWEI TECHNOLOGIES CO.,LTD
F41D6B (base 16) HUAWEI TECHNOLOGIES
CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

7C-EC-9B (hex) Fuzhou Teraway Information Technology Co.,Ltd
7CEC9B (base 16) Fuzhou Teraway Information Technology Co.,Ltd
2F, Building 5#, No. 59, Yangqi Road, Cangshan District

Fuzhou Fujian 350000
CN

C4-8F-C1 (hex) DEEPTRACK S.L.U.
C48FC1 (base 16) DEEPTRACK S.L.U.
Avenida de Barajas 32, Parque E. Omega, Edificio A
Alcobendas 28100
ES

B4-F5-8E (hex) HUAWEI TECHNOLOGIES CO.,LTD
B4F58E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

AC-42-28 (hex) Parta Networks
AC4228 (base 16) Parta Networks
Teknopark Izmir No:38
URLA IZMIR 35433
TR

B0-A6-F5 (hex) Xaptum, Inc.
B0A6F5 (base 16) Xaptum, Inc.
350 W Ontario ST FL 4
Chicago IL 60654
US

AC-F5-E6 (hex) Cisco Systems, Inc
ACF5E6 (base 16) Cisco Systems,
Inc
80 West Tasman Drive
San Jose CA 94568
US

E8-28-C1 (hex) Eltex Enterprise Ltd.
E828C1 (base 16) Eltex Enterprise Ltd.
Okruzhnaya st. 29v
Novosibirsk 630020
RU

78-D3-47 (hex) Ericsson AB
78D347 (base 16) Ericsson AB
Torshamnsgatan 36
Stockholm SE-164 80
SE

F8-23-87 (hex) Shenzhen Horn Audio Co.,Ltd.
F82387 (base 16) Shenzhen Horn Audio Co.,Ltd.

NO.6 4th GuiHua road,PingShan,
Shenzhen Guangdong 518118
CN

BC-98-DF (hex) Motorola Mobility LLC, a Lenovo Company
BC98DF (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

A4-A1-79 (hex) Nanjing dianyan electric power automation co. LTD
A4A179 (base 16) Nanjing dianyan electric power automation co. LTD
No. 29, liuzhou north road, pukou district
Nanjing Jiangsu 210031
CN

68-DB-67 (hex) Nantong Coship Electronics Co., Ltd.
68DB67 (base 16) Nantong Coship
Electronics Co., Ltd.
No.188 Xinsheng Road
Nantong 226000
US

BC-9F-E4 (hex) Aruba, a Hewlett Packard Enterprise Company
BC9FE4 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

98-0D-67 (hex) Zyxel Communications Corporation
980D67 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

70-2E-80 (hex) DIEHL Connectivity Solutions
702E80 (base 16) DIEHL Connectivity Solutions
Stephanstraße 49
Nürnberg Bayern 90478
DE

F8-C3-97 (hex) NZXT Corp. Ltd.
F8C397 (base 16) NZXT Corp. Ltd.
13164 E. Temple Ave.
City of Industry California 91746
US

70-DD-A8 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD

70DDA8 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

4C-6F-9C (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS
CORP.,LTD
4C6F9C (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

78-2C-29 (hex) New H3C Technologies Co., Ltd
782C29 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

AC-A4-6E (hex) SHENZHEN GONGJIN ELECTRONICS CO.,LT
ACA46E (base 16) SHENZHEN GONGJIN ELECTRONICS CO.,LT
SONGGANG
SHENZHEN GUANGDONG 518105
CN

C8-B4-22 (hex) ASKEY COMPUTER CORP
C8B422 (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585
TW

94-EE-9F (hex) HMD Global Oy
94EE9F (base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo 02600
FI

D4-D2-52 (hex) Intel Corporate
D4D252 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

58-A0-23 (hex) Intel Corporate
58A023 (base 16) Intel Corporate
Lot 8, Jalan
Hi-Tech 2/3
Kulim Kedah 09000
MY

DC-B0-82 (hex) Nokia
DCB082 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

F4-32-3D (hex) Sichuan tianyi kanghe communications co., LTD
F4323D (base 16) Sichuan tianyi kanghe communications co., LTD
No.198, section 1, xueshan avenue, jinyuan town, dayi county, sichuan province
chengdu sichuan 611330
CN

10-93-97 (hex) ARRIS Group, Inc.
109397 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

50-75-F1 (hex) ARRIS Group, Inc.
5075F1 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

E8-C4-17 (hex) Fiberhome Telecommunication Technologies Co.,LTD
E8C417 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

F8-B7-97 (hex) NEC Platforms, Ltd.
F8B797 (base 16) NEC Platforms, Ltd.
2-3 Kandatsukasamachi
Chiyodaku Tokyo 101-8532
JP

B0-AA-D2
(hex) Sichuan tianyi kanghe communications co., LTD
B0AAD2 (base 16) Sichuan tianyi kanghe communications co., LTD
No.198, section 1, xueshan avenue, jinyuan town, dayi county, sichuan province
chengdu sichuan 611330
CN

00-1E-A3 (hex) Nokia Danmark A/S
001EA3 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790

DK

38-F3-2E (hex) Skullcandy
38F32E (base 16) Skullcandy
6301 N. LANDMARK DRIVE
Park City 84098
US

DC-2A-A1 (hex) MedHab LLC
DC2AA1 (base 16) MedHab LLC
3501 North US Highway 67
San Angelo TX 76905
US

E4-F3-E8 (hex) Shenzhen SuperElectron Technology Co.,Ltd.
E4F3E8 (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen Guangdong 518000
CN

CC-A1-2B (hex) TCL King Electrical Appliances (Huizhou) Co., Ltd
CCA12B (base 16) TCL
King Electrical Appliances (Huizhou) Co., Ltd
10F, TCL Multimedia Building, TCL International E City, No.1001 Zhongshanyuan Rd., Nanshan District
Shenzhen Guangdong 518052
CN

AC-00-D0 (hex) zte corporation
AC00D0 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

98-1E-19 (hex) Sagemcom Broadband SAS
981E19 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

84-B8-66 (hex) Beijing XiaoLu technology co. LTD
84B866 (base 16) Beijing XiaoLu technology co. LTD
Room 002, floor 2, building 1, yard 4, BeiTuCheng East Road, ChaoYang district, Beijing
Beijing 100102
CN

14-22-DB (hex) eero inc.
1422DB (base 16) eero inc.
230 9th St.

San Francisco CA 94103
US

18-BC-5A (hex) Zhejiang Tmall Technology Co., Ltd.
18BC5A (base 16) Zhejiang Tmall Technology Co., Ltd.
Ali
Center,No.3331 Keyuan South RD (Shenzhen bay), Nanshan District,
Shenzhen Guangdong 518000
CN

C4-C1-38 (hex) OWLink Technology Inc
C4C138 (base 16) OWLink Technology Inc
760 Roosevelt
Irvine CA 92620
US

C4-65-16 (hex) Hewlett Packard
C46516 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston TX 77070
US

E4-1E-0A (hex) IEEE Registration Authority
E41E0A (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

AC-37-C9 (hex) RAID Incorporated
AC37C9 (base 16) RAID Incorporated
200 Brickstone Square
Andover MA 01810
US

20-58-69 (hex) Ruckus Wireless
205869 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

CC-37-AB (hex) Edgecore Networks Corporation
CC37AB (base 16) Edgecore Networks Corporation
1 Creation Road 3.
Hsinchu Hsinchu 30077
TW

90-78-41 (hex) Intel Corporate
907841 (base 16) Intel

Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C8-63-14 (hex) IEEE Registration Authority
C86314 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

24-31-54 (hex) HUAWEI TECHNOLOGIES CO.,LTD
243154 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

84-B8-B8 (hex) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
84B8B8 (base 16) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
No.19, Gaoxin 4th Road, Wuhan East Lake High-tech Zone, Wuhan
Wuhan Hubei 430000
CN

D0-41-C9 (hex) Fiberhome Telecommunication Technologies Co.,LTD
D041C9 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

E8-01-8D (hex) Fiberhome Telecommunication Technologies Co.,LTD
E8018D (base 16) Fiberhome Telecommunication Technologies
Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

18-39-9C (hex) Skorpios Technologies
18399C (base 16) Skorpios Technologies
7401 Snaproll St NE
Albuquerque NM 87109
US

94-C2-BD (hex) TECNOBIT
94C2BD (base 16) TECNOBIT
C/ FUDRE, 18
VALDEPEÑAS CIUDAD REAL 13300
ES

48-83-B4 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
4883B4 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

70-1E-68 (hex) Hanna Instruments, Inc.
701E68 (base 16) Hanna Instruments, Inc.
584 Park East Dr.
Woonsocket RI 02895
US

94-16-25 (hex) Apple, Inc.
941625 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

54-3B-30 (hex) duagon AG
543B30 (base 16) duagon AG
Riedstrasse 12
Zürich Dietikon 8953
CH

8C-96-5F (hex) Shandong Zhongan Technology Co., Ltd.
8C965F (base 16) Shandong Zhongan
Technology Co., Ltd.
North of Kejia Road, East District, Jinan High-tech Zone
Jinan Shandong 250100
CN

10-A3-B8 (hex) Iskratel d.o.o.
10A3B8 (base 16) Iskratel d.o.o.
Ljubljanska cesta 24a
Kranj 4000
SI

70-CD-91 (hex) TERACOM TELEMATICA S.A
70CD91 (base 16) TERACOM TELEMATICA S.A
RUA AMERICA,1000
Eldorado do Sul Rio Grande do Sul 92990-000
BR

E8-EC-A3 (hex) Dongguan Liesheng Electronic Co.Ltd
E8ECA3 (base 16) Dongguan Liesheng Electronic Co.Ltd
13th Floor South Building, Gosun Science Park, Hongtu Rd
Dongguan Dongguan 523073
CN

08-A6-BC (hex) Amazon Technologies Inc.
08A6BC (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

2C-58-E8 (hex) HUAWEI TECHNOLOGIES CO.,LTD
2C58E8 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B0-BB-8B (hex) WAVETEL TECHNOLOGY LIMITED
B0BB8B
(base 16) WAVETEL TECHNOLOGY LIMITED
ROOM 1611B, 16/F, HO KING COMMERCIAL CENTRE, 2-16 FAYUEN STREET, MONGKOK, KOWLOON
HONGKONG 999077
CN

34-A8-EB (hex) Apple, Inc.
34A8EB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

1C-B3-E9 (hex) Shenzhen Zhongke United Communication Technology
1CB3E9 (base 16) Shenzhen Zhongke United Communication Technology
6C jiajiahao commercial building, Shennan avenue
Shenzhen Guangdong 518000
CN

A4-83-E7 (hex) Apple, Inc.
A483E7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F4-AF-E7 (hex) Apple, Inc.
F4AFE7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

AC-88-FD (hex) Apple, Inc.
AC88FD (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

64-89-F1 (hex) Samsung Electronics Co.,Ltd
6489F1 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

50-3E-7C
(hex) LeiShen Intelligent System Co.Ltd
503E7C (base 16) LeiShen Intelligent System Co.Ltd
4th Floor,No.1 Commercial Building,Cultural Center,Tanggang Road,Tanggang Community,Shajing Street,Baoan District
Shenzhen Guangdong 518104
CN

24-3F-30 (hex) Oxygen Broadband s.a.
243F30 (base 16) Oxygen Broadband s.a.
2 Messogeion ave., Athens Tower
Athens Attiki 11527
GR

3C-91-80 (hex) Liteon Technology Corporation
3C9180 (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

20-32-6C (hex) Samsung Electronics Co.,Ltd
20326C (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

80-FD-7A (hex) BLU Products Inc
80FD7A (base 16) BLU Products Inc
10814 NW 33rd Street
Miami FL 33172
US

B4-A3-05 (hex) XIAMEN YAXON NETWORK CO., LTD.
B4A305 (base 16) XIAMEN YAXON NETWORK CO., LTD.
46#,Guanri
Road, Software Park II
Xiamen Fujian 361008
CN

80-3E-48 (hex) SHENZHEN GONGJIN ELECTRONICS CO.,LT

803E48 (base 16) SHENZHEN GONGJIN ELECTRONICS CO.,LT
SONGGANG
SHENZHEN GUANGDONG 518105
CN

24-58-6E (hex) zte corporation
24586E (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

C0-07-4A (hex) Brita GmbH
C0074A (base 16) Brita GmbH
Heinrich-Hertz-Str. 4
Taunusstein 65232
DE

E8-B2-FE (hex) HUMAX Co., Ltd.
E8B2FE (base 16) HUMAX Co., Ltd.
HUMAX Village, 216, Hwangsaeul-ro, Bu
Seongnam-si Gyeonggi-do 463-875
KR

00-17-FA (hex) Microsoft Corporation
0017FA (base 16) Microsoft Corporation
One Microsoft Way
Redmond Washington 98052-6399
US

94-BF-C4 (hex) Ruckus Wireless
94BFC4 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

20-34-FB (hex) Xiaomi Communications
Co Ltd
2034FB (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

A8-9C-ED (hex) Xiaomi Communications Co Ltd
A89CED (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

6C-A6-04 (hex) ARRIS Group, Inc.
6CA604 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-12-4E (hex) XAC AUTOMATION CORP.
00124E (base 16) XAC AUTOMATION CORP.
4F, 30 Industry E. Road IX
Hsin-Chu 300
US

88-E0-34 (hex) Shinwa industries(China) ltd.
88E034 (base 16) Shinwa industries(China) ltd.
No.26,Huifeng West 2 Road,Zhongkai High-tech Zone
Huizhou Guangdong 516006
CN

BC-CF-4F (hex) Zyxel Communications Corporation
BCCF4F (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu
Taiwan 300
TW

0C-E0-41 (hex) iDruide
0CE041 (base 16) iDruide
19 Rue de la Turbie
MONACO 98000
MC

B8-8F-B4 (hex) JABIL CIRCUIT ITALIA S.R.L
B88FB4 (base 16) JABIL CIRCUIT ITALIA S.R.L
via andrea appiani 12
milano 20121
IT

C0-10-B1 (hex) HMD Global Oy
C010B1 (base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo 02600
FI

00-52-C2 (hex) peiker acustic GmbH
0052C2 (base 16) peiker acustic GmbH
Max-Planck-Strasse 28-32
Friedrichsdorf 61381
DE

90-89-5F (hex) WEIFANG GOERTEK ELECTRONICS CO.,LTD
90895F (base 16) WEIFANG GOERTEK ELECTRONICS CO.,LTD
Gaoxin 2 Road, Free Trade Zone,Weifang,Shandong,261205,P.R.China
Weifang Shandong 261205
CN

48-D8-45 (hex) Shenzhen Mainuoke Electronics Co., Ltd
48D845 (base 16) Shenzhen Mainuoke Electronics Co., Ltd
9th Floor, Hengtemei Building, Buji
Shenzhen Guangdong 518000
CN

D0-EC-35 (hex) Cisco Systems,
Inc
D0EC35 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

38-00-25 (hex) Intel Corporate
380025 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

0C-F4-75 (hex) Zliide Technologies ApS
0CF475 (base 16) Zliide Technologies ApS
Sverigesgade 6
Aarhus 8000
DK

68-FF-7B (hex) TP-LINK TECHNOLOGIES CO.,LTD.
68FF7B (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

80-8F-1D (hex) TP-LINK TECHNOLOGIES CO.,LTD.
808F1D (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

00-0F-69 (hex) SEW Eurodrive GmbH & Co. KG
000F69 (base 16) SEW Eurodrive GmbH & Co. KG
Ernst Blickle Str. 42
Bruchsal

76646
DE

8C-53-D2 (hex) China Mobile Group Device Co.,Ltd.
8C53D2 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

D0-58-C0 (hex) Qingdao Haier Multimedia Limited.
D058C0 (base 16) Qingdao Haier Multimedia Limited.
Pingban Building, Haier Industry Park, Laoshan District,
Qingdao Shandong 266103
CN

F8-D4-78 (hex) Flextronics Tech.(Ind) Pvt Ltd
F8D478 (base 16) Flextronics Tech.(Ind) Pvt Ltd
365, Benjamin Road
Sricity Vardahiah Palem(M),Chilamathur Village, Chittoor Distict 517646
IN

38-21-C7 (hex) Aruba, a Hewlett Packard Enterprise Company
3821C7 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

48-BD-0E (hex) Quanta Storage Inc.
48BD0E (base 16) Quanta Storage Inc.
3F. No.188, Wenhua 2nd Rd
Taoyuan City Guishan District 33383
TW

D4-53-83 (hex) Murata Manufacturing
Co., Ltd.
D45383 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

A0-42-46 (hex) IT Telecom Co., Ltd.
A04246 (base 16) IT Telecom Co., Ltd.
517 TheOvalley 555-9 Hogye-dong, Dong An-gu
Anyang-si Gyeonggi-do 14117
KR

A4-5F-9B (hex) Nexell
A45F9B (base 16) Nexell

12F, 31 Hwangsaeul-ro 258 beon-gil, Bundang-gu
Seongnam-si, Gyeonggi-do 13595
KR

E4-58-E7 (hex) Samsung Electronics Co.,Ltd
E458E7 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-10-4A (hex) The Parvus Corporation
00104A (base 16) The Parvus Corporation
3222 S Washington St.
Salt Lake City UT 84115
US

94-B4-0F (hex) Aruba, a Hewlett Packard Enterprise Company
94B40F (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

00-1A-1E (hex) Aruba, a Hewlett Packard Enterprise
Company
001A1E (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

00-24-6C (hex) Aruba, a Hewlett Packard Enterprise Company
00246C (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

48-C3-B0 (hex) Pharos Co.Ltd
48C3B0 (base 16) Pharos Co.Ltd
503 Ogong-ro 144 Deokjin-gu
Jeonju-si 54873
KR

DC-58-BC (hex) Thomas-Krenn.AG
DC58BC (base 16) Thomas-Krenn.AG
Speltenbach-Steinaecker 1
Freyung 94078
DE

00-10-25 (hex) Grayhill, Inc

001025 (base 16) Grayhill, Inc
561 Hillgrove Ave
LaGrange IL 60525
US

70-EA-1A (hex) Cisco Systems, Inc
70EA1A (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

80-8A-8B (hex) vivo Mobile Communication Co., Ltd.
808A8B (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong,
523860
CN

1C-3B-8F (hex) Selve GmbH & Co. KG
1C3B8F (base 16) Selve GmbH & Co. KG
Werdohler Landstraße 286
Lüdenscheid 58513
DE

E4-E7-49 (hex) Hewlett Packard
E4E749 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston TX 77070
US

98-44-B6 (hex) INFRANOR SAS
9844B6 (base 16) INFRANOR SAS
Avenue Jean Moulin
LOURDES 65100
FR

38-83-9A (hex) SHENZHEN RF-LINK TECHNOLOGY CO.,LTD.
38839A (base 16) SHENZHEN RF-LINK TECHNOLOGY CO.,LTD.
Bldg56A,6/F,Baotian Rd3,Xixiang Town,Baoan District,
Shenzhen Guangdong 518000
CN

C8-F6-C8 (hex) Fiberhome Telecommunication Technologies Co.,LTD
C8F6C8 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

A8-6D-AA (hex) Intel Corporate
A86DAA (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

38-C2-BA (hex) CCTV NEOTECH
38C2BA
(base 16) CCTV NEOTECH
68, Digital-ro 9-gil, Geumcheon-gu
Seoul ks013
KR

A0-F9-B7 (hex) Ademco Smart Homes Technology(Tianjin)Co.,Ltd.
A0F9B7 (base 16) Ademco Smart Homes Technology(Tianjin)Co.,Ltd.
No.156 Nanhai Road,TEDA, Jinbin Development Park , 21st Factory Building
Tianjin Tianjin 300457
CN

A8-3C-CB (hex) ROSSMA
A83CCB (base 16) ROSSMA
Malkova,12-108
PERM 614087
RU

DC-67-23 (hex) barox Kommunikation GmbH
DC6723 (base 16) barox Kommunikation GmbH
Marie-Curie-Strasse 8
Lörrach DE-79539
DE

44-B4-62 (hex) Flextronics Tech.(Ind) Pvt Ltd
44B462 (base 16) Flextronics Tech.(Ind) Pvt Ltd
365, Benjamin Road
Sricity Vardahiah Palem(M),Chilamathur Village, Chittoor Distict 517646
IN

CC-3F-EA (hex) BAE Systems, Inc
CC3FEA (base 16) BAE Systems, Inc
1098 Clark St
Endicott NY 13760
US

94-67-7E (hex) Belden India Private Limited
94677E (base 16) Belden
India Private Limited
Plot No. D-228, Chakan MIDC Phase 2,
Village Bhamboli, Taluka:Khed Pune, Maharashtra 410 507

IN

AC-57-75 (hex) HMD Global Oy
AC5775 (base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo 02600
FI

E8-5B-B7 (hex) Ample Systems Inc.
E85BB7 (base 16) Ample Systems Inc.
11F-2, No. 95 Minquan Rd.
New Taipei City 231
TW

AC-43-30 (hex) Versa Networks
AC4330 (base 16) Versa Networks
6001 America center Drive, Suite 400
San Jose CA 95070
US

D4-3A-2E (hex) SHENZHEN MTC CO LTD
D43A2E (base 16) SHENZHEN MTC CO LTD
5th Floor, 3rd Building, SHENZHEN MTC Industrial Park, XiaLilang Rd, Nanwan Street, Long'gang District
Shenzhen Guangdong 518100
CN

EC-C5-7F (hex) Suzhou Pairlink Network Technology
ECC57F (base 16) Suzhou Pairlink Network Technology
Room304, Building 4, No.209, Zhu Yuan Road, Suzhou new district
Suzhou Jiangsu 215011
CN

30-C3-D9 (hex) ALPSALPINE
CO,.LTD
30C3D9 (base 16) ALPSALPINE CO,.LTD
6-1
Kakuda Miyagi-Pref 981-1595
JP

50-AD-92 (hex) NX Technologies
50AD92 (base 16) NX Technologies
5F(OS Building), 57, Daeril-2gil, Beomseo-eup
Ulsan 44922
KR

4C-F2-BF (hex) Cambridge Industries(Group) Co.,Ltd.
4CF2BF (base 16) Cambridge Industries(Group) Co.,Ltd.
22 Floor,Qilai Tower;889 Yishan Road

Shanghai 200233
CN

CC-9E-A2 (hex) Amazon Technologies Inc.
CC9EA2 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno 89507
US

00-1B-FB (hex) ALPSALPINE CO,.LTD
001BFB (base 16) ALPSALPINE CO,.LTD
1-2-1, Okinouchi,
Soma-city, Fukushima-pref., 976-8501
JP

8C-AE-DB (hex) NAGTECH LLC
8CAEDB (base 16) NAGTECH LLC
12A, Krasnolesya Str., off 507
Ekaterinburg Sverdlovskaya oblast 620110
RU

78-B2-13 (hex) DWnet Technologies(Suzhou) Corporation
78B213 (base 16) DWnet Technologies(Suzhou) Corporation
No.8,Tangzhuang
Road, Suzhou Industrial Park, Jiangsu, China
Suzhou 21500
CN

08-F1-EA (hex) Hewlett Packard Enterprise
08F1EA (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

7C-DB-98 (hex) ASKEY COMPUTER CORP
7CDB98 (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585
TW

38-0B-3C (hex) Texas Instruments
380B3C (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

68-45-F1 (hex) TOSHIBA CLIENT SOLUTIONS CO., LTD.
6845F1 (base 16) TOSHIBA CLIENT SOLUTIONS CO., LTD.

Tachihi Building No.2, 6-1-3, Sakae-Cho
Tachikawa-shi Tokyo 190-0003
JP

6C-A9-36 (hex) DisplayLink (UK) Ltd
6CA936 (base 16) DisplayLink (UK) Ltd
140 Science Park, Milton road
Cambridge Cambridgeshire CB4 0GF
GB

70-85-40 (hex) Skyworth Digital Technology(Shenzhen) Co.,Ltd
708540 (base 16) Skyworth Digital Technology(Shenzhen) Co.,Ltd
7F,Block A,Skyworth Building,
Shenzhen Guangdong 518057
CN

F0-0D-F5 (hex) ACOMA Medical Industry Co,. Ltd.
F00DF5 (base 16) ACOMA Medical Industry Co,. Ltd.
2-14-14 hongo
bunkyo-ku Tokyo 113-0033
JP

58-C2-32 (hex) NEC Corporation
58C232 (base 16) NEC Corporation
1753, Shimonumabe, Nakahara-Ku, Kawasaki
Kanagawa 211-8666
JP

94-E0-D6 (hex) China Dragon Technology Limited
94E0D6 (base 16) China Dragon Technology Limited
B4 Bldg.Haoshan 1st Industry Park,
Shenzhen Guangdong 518104
CN

B4-A9-FC (hex) Quanta Computer Inc.
B4A9FC (base 16) Quanta Computer Inc.
No. 211, Wen-Hwa 2nd Rd.,Kuei-Shan Dist.
Taoyuan City Taiwan 33377
TW

00-32-17 (hex) Cisco Systems, Inc
003217 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

38-1D-14 (hex) Skydio Inc.

381D14 (base 16) Skydio Inc.
114 Hazel Ave
Redwood City CA 94061
US

3C-28-6D
(hex) Google, Inc.
3C286D (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

00-09-3A (hex) Molex CMS
00093A (base 16) Molex CMS
5224 Katrine Avenue
Downers Grove IL 60515
US

74-F7-37 (hex) KCE
74F737 (base 16) KCE
5F KCE B/D,34,Annam-ro 369beon-gil,Bupyoung-gu
Incheon 21312
KR

48-A4-93 (hex) TAIYO YUDEN CO.,LTD
48A493 (base 16) TAIYO YUDEN CO.,LTD
8-1, Sakae-cho
Takasaki-shi Gunma 370-8522
JP

88-D2-11 (hex) Eko Devices, Inc.
88D211 (base 16) Eko Devices, Inc.
2600 10th St Ste 260
Berkeley CA 94710-2597
US

B8-C2-27 (hex) PSTec
B8C227 (base 16) PSTec
#80, Hwanggeum 3-ro 7beon-gil, Yangchon-eup
Gimpo-si Gyeonggi-do 10048
KR

A4-8C-C0 (hex) JLG Industries, Inc.
A48CC0 (base 16) JLG Industries, Inc.
13224 Fountainhead Plaza
Hagerstown MD 21742
US

48-E6-95 (hex) Insigma Inc
48E695
(base 16) Insigma Inc
43490, Yukon Drive, Suite 102
Ashburn VA 20147
US

B4-79-C8 (hex) Ruckus Wireless
B479C8 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

E8-2C-6D (hex) SmartRG, Inc.
E82C6D (base 16) SmartRG, Inc.
501 SE Columbia Shores Blvd
Vancouver WA 98661
US

04-F9-D9 (hex) Speaker Electronic(Jiashan) Co.,Ltd
04F9D9 (base 16) Speaker Electronic(Jiashan) Co.,Ltd
No. 8 Development Zone Road, Huimin Sub-district
Jiashan Zhejiang 314112
CN

DC-08-0F (hex) Apple, Inc.
DC080F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F8-E9-4E (hex) Apple, Inc.
F8E94E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

EC-2C-E2 (hex) Apple, Inc.
EC2CE2 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

40-BC-60 (hex) Apple, Inc.
40BC60 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino

CA 95014
US

E8-36-17 (hex) Apple, Inc.
E83617 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

9C-64-8B (hex) Apple, Inc.
9C648B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

34-42-62 (hex) Apple, Inc.
344262 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

9C-8C-D8 (hex) Hewlett Packard Enterprise
9C8CD8 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

2C-AA-8E (hex) Wyze Labs Inc
2CAA8E (base 16) Wyze Labs Inc
4030 Lake Washington Boulevard NE
Kirkland WA 98033
US

70-3A-51 (hex) Xiaomi Communications Co Ltd
703A51 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

14-D0-0D (hex) Apple, Inc.
14D00D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C0-3D-D9
(hex) MitraStar Technology Corp.
C03DD9 (base 16) MitraStar Technology Corp.

No. 6, Innovation Road II,
Hsinchu 300
TW

0C-95-41 (hex) CHIPSEA TECHNOLOGIES (SHENZHEN) CORP.
0C9541 (base 16) CHIPSEA TECHNOLOGIES (SHENZHEN) CORP.
9F,BLOCK A,GARDEN CITY DIGITAL BUILDING,NO.1079 NANHAI ROAD,NANSHAN DISTRICT
SHEN ZHEN GUANG DONG 518000
CN

B4-0B-78 (hex) Brusa Elektronik AG
B40B78 (base 16) Brusa Elektronik AG
Neudorf 14
Sennwald St. Gallen 9466
CH

18-1E-95 (hex) AuVerte
181E95 (base 16) AuVerte
14 Riverview Road
Niantic CT 06357
US

9C-69-37 (hex) Qorvo International Pte. Ltd.
9C6937 (base 16) Qorvo International Pte. Ltd.
1 Changi Business Park Avenue 1
#04-01 486058
SG

20-79-18 (hex) Intel Corporate
207918 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

48-35-2E (hex) Shenzhen Wolck Network Product Co.,LTD
48352E (base
16) Shenzhen Wolck Network Product Co.,LTD
9# BuJi BanTian LongBi Industry Area
Shenzhen Guangdong 518129
CN

04-E5-98 (hex) Xiaomi Communications Co Ltd
04E598 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

00-10-60 (hex) BILLIONTON SYSTEMS, INC.

001060 (base 16) BILLIONTON SYSTEMS, INC.
3F-1, NO. 8, LANE 99
HSIN-CHU
TW

C4-D4-89 (hex) JiangSu Joyque Information Industry Co.,Ltd
C4D489 (base 16) JiangSu Joyque Information Industry Co.,Ltd
10 Floor YaHua Building, Xi'anBei Road,
Xuzhou JiangSu 221006
CN

B8-2C-A0 (hex) Resideo
B82CA0 (base 16) Resideo
2 Corporate Center Dr.
Melville NY 11747
US

DC-48-B2 (hex) Baraja Pty. Ltd.
DC48B2 (base 16) Baraja Pty. Ltd.
36 Bradfield Road
West Lindfield NSW 2070
AU

AC-AE-19 (hex) Roku, Inc
ACAE19 (base 16) Roku, Inc
1155
Coleman Ave
San Jose CA 95110
US

C0-BD-C8 (hex) Samsung Electronics Co.,Ltd
C0BDC8 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B4-F9-49 (hex) optilink networks pvt ltd
B4F949 (base 16) optilink networks pvt ltd
501/502, sanjona complex, hemu kalani marg, chembur
mumbai maharashtra 400071
IN

3C-37-86 (hex) NETGEAR
3C3786 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

A4-A1-E4 (hex) Innotube, Inc.
A4A1E4 (base 16) Innotube, Inc.
#1212 MegaCenter SknTechnoPark 124 Sagimakgol-ro Jungwon-gu
Seongnam-si Gyeonggi-do 462-120
KR

98-D3-E7 (hex) Netafim L
98D3E7 (base 16) Netafim L
Kibutz Magal
Kibutz Magal 38845
IL

64-7B-CE (hex) Samsung Electronics Co.,Ltd
647BCE (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A8-87-B3 (hex) Samsung Electronics Co.,Ltd
A887B3
(base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

6C-00-6B (hex) Samsung Electronics Co.,Ltd
6C006B (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

6C-C7-EC (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
6CC7EC (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T. Bangsamak SEMTHAI, WELLGROW INDUSTRIAL ESTATE
Bangpakong Chachoengsao 24180
TH

D8-96-85 (hex) GoPro
D89685 (base 16) GoPro
3000 Clearview Way
San Mateo CA 94402
US

A0-A4-C5 (hex) Intel Corporate
A0A4C5 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

F4-D1-08 (hex) Intel Corporate
F4D108 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

60-CE-92 (hex) The Refined Industry Company Limited
60CE92 (base 16) The Refined Industry Company Limited
7/F Sun King Factory Bldg,1
- 7 Shing Chuen Road, Shatin, NT
Hong Kong NT 000000
HK

94-EA-EA (hex) TELLESCOM INDUSTRIA E COMERCIO EM TELECOMUNICACAO
94EAEA (base 16) TELLESCOM INDUSTRIA E COMERCIO EM TELECOMUNICACAO
Av. Buriti, 1900 – Setor B – Distrito Industrial
Manaus Amazonas 69075-000
BR

30-13-89 (hex) Siemens AG, Automations & Drives,
301389 (base 16) Siemens AG, Automations & Drives,
Systems Engineering
FÃ¼rth Deutschlang 90766
DE

1C-FD-08 (hex) IEEE Registration Authority
1CFD08 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

B8-59-9F (hex) Mellanox Technologies, Inc.
B8599F (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway, Suite 100
Sunnyvale CA 94085
US

3C-01-EF (hex) Sony Corporation
3C01EF (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

70-6D-15 (hex) Cisco Systems, Inc
706D15 (base 16) Cisco Systems, Inc
80

West Tasman Drive
San Jose CA 94568
US

10-5B-AD (hex) Mega Well Limited
105BAD (base 16) Mega Well Limited
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

F0-63-F9 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F063F9 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

7C-C3-85 (hex) HUAWEI TECHNOLOGIES CO.,LTD
7CC385 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

90-0E-B3 (hex) Shenzhen Amediatech Technology Co., Ltd.
900EB3 (base 16) Shenzhen Amediatech Technology Co., Ltd.
2th floor, block A, building B, Minsheng Industrial Zone, Longhua District
Shenzhen Guangdong 518109
CN

F0-54-94 (hex) Honeywell Connected Building
F05494 (base 16) Honeywell Connected Building
1985 DOUGLAS DRIVE
Golden Valley
MN 55422
US

48-87-2D (hex) SHEN ZHEN DA XIA LONG QUE TECHNOLOGY CO.,LTD
48872D (base 16) SHEN ZHEN DA XIA LONG QUE TECHNOLOGY CO.,LTD
Room 511, Building C, Yuxing Technology Park, Gushu Second Road, Bao’an District
SHEN ZHEN GUANG DONG 518000
CN

E8-1A-58 (hex) TECHNOLOGIC SYSTEMS
E81A58 (base 16) TECHNOLOGIC SYSTEMS
16525 E Laser Dr
Fountain Hills AZ 85268-6534
US

00-AD-24 (hex) D-Link International

00AD24 (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

54-06-8B (hex) Ningbo Deli Kebei Technology Co.LTD
54068B (base 16) Ningbo Deli Kebei Technology Co.LTD
zone 2nd , 301#, Road Xuxiake, Ninghai yuelong district
ningbo Zhejiang 315600
CN

54-9F-AE (hex) iBASE Gaming Inc
549FAE (base 16) iBASE Gaming Inc
2F., No.542-17, Zhongzheng Rd
Xinzhuang Dist., New Taipei City 24255
TW

00-EA-BD (hex) Cisco Systems,
Inc
00EABD (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

54-80-28 (hex) Hewlett Packard Enterprise
548028 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

74-BF-C0 (hex) CANON INC.
74BFC0 (base 16) CANON INC.
30-2 Shimomaruko 3-chome,
Ohta-ku Tokyo 146-8501
JP

20-B0-01 (hex) Technicolor Delivery Technologies Belgium NV
20B001 (base 16) Technicolor Delivery Technologies Belgium NV
Prins Boudewijnlaan 47
Edegem - Belgium B-2650
BE

18-1D-EA (hex) Intel Corporate
181DEA (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

18-56-80 (hex) Intel Corporate
185680 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C8-D9-D2 (hex) Hewlett Packard
C8D9D2 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston TX 77070
US

24-FC-E5 (hex) Samsung
Electronics Co.,Ltd
24FCE5 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

80-96-21 (hex) Lenovo
809621 (base 16) Lenovo
1009 Think Place
Morrisvilee NC 27560
US

14-22-33 (hex) Fiberhome Telecommunication Technologies Co.,LTD
142233 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

78-05-5F (hex) Shenzhen WYC Technology Co., Ltd.
78055F (base 16) Shenzhen WYC Technology Co., Ltd.
No.618 Wenzhengxin BuildingHi-tech ParkNanshan District
Shenzhen Guangdong 518000
CN

00-60-EB (hex) FOURTHTRACK SYSTEMS
0060EB (base 16) FOURTHTRACK SYSTEMS
UNIT 3 THE SYCAMORES
MARLOW - SL7 1QB
GB

EC-79-F2 (hex) Startel
EC79F2 (base 16) Startel
Xi Chuang Industrial ParkSecond industrial district of Guan Long VillageXili town Nanshan District
Shenzhen Guangdong 518055
CN

04-BC-87
(hex) Shenzhen JustLink Technology Co., LTD
04BC87 (base 16) Shenzhen JustLink Technology Co., LTD
Room 5002,The 2nd Unit of the Building East, Laobing Building, No.3012 Xingye Road,Baoan District
Shenzhen Guangdong Province 518101
CN

54-C3-3E (hex) Ciena Corporation
54C33E (base 16) Ciena Corporation
7035 Ridge Road
Hanover MD 21076
US

18-62-E4 (hex) Texas Instruments
1862E4 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

D4-AB-82 (hex) ARRIS Group, Inc.
D4AB82 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

70-4F-B8 (hex) ARRIS Group, Inc.
704FB8 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

5C-C9-99 (hex) New H3C Technologies Co., Ltd
5CC999 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

B0-2A-43 (hex) Google,
Inc.
B02A43 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

C4-74-F8 (hex) Hot Pepper, Inc.
C474F8 (base 16) Hot Pepper, Inc.
5151 California Ave., Suite 100,

Irvine 92617
US

BC-B2-2B (hex) EM-Tech
BCB22B (base 16) EM-Tech
40, Changwon-daero 1144beon-gil
Seongsan-gu Changwon Gyeongsangnam-do KR 642-120
KR

B0-8B-CF (hex) Cisco Systems, Inc
B08BCF (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

C4-98-5C (hex) Hui Zhou Gaoshengda Technology Co.,LTD
C4985C (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.75,Zhongkai High-Tech Development District,Huizhou
Hui Zhou Guangdong 516006
CN

30-A1-FA (hex) HUAWEI TECHNOLOGIES CO.,LTD
30A1FA (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

64-62-8A (hex) evon GmbH
64628A (base 16) evon
GmbH
Frank-Stronach-Straße 8
Gleisdorf Styria 8200
AT

04-15-D9 (hex) Viwone
0415D9 (base 16) Viwone
54 - 56 , Avenue Hoche
Paris 75008
FR

DC-37-57 (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
DC3757 (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

00-50-99 (hex) 3COM EUROPE LTD
005099 (base 16) 3COM EUROPE LTD

BOUNDARY WAY
HERTS. HP2 7YU vvvvvv
GB

EC-B3-13 (hex) SHENZHEN GONGJIN ELECTRONICS CO.,LT
ECB313 (base 16) SHENZHEN GONGJIN ELECTRONICS CO.,LT
SONGGANG
SHENZHEN GUANGDONG 518105
CN

24-2E-90 (hex) PALIT MICROSYSTEMS, LTD
242E90 (base 16) PALIT MICROSYSTEMS, LTD
21F.,No.88,Sec.2,Zhongxiao E.Rd.,Golden Tower,
TAIPEI 100
TW

74-34-00 (hex) MTG Co., Ltd.
743400 (base 16) MTG Co., Ltd.
MTG No. 2 HIKARI Bldg., 4-13 Honjindori
Nakamura-ku, Nagoya Aichi 453-0041
JP

60-35-C0
(hex) SFR
6035C0 (base 16) SFR
12 rue jean-philippe Rameau CS 80001
La plaine saint denis FRANCE 93634
FR

00-1A-C5 (hex) Keysight Technologies, Inc.
001AC5 (base 16) Keysight Technologies, Inc.
1400 Fountaingrove Pkwy.
Santa Rosa CA 95403
US

00-20-1E (hex) NETQUEST CORPORATION
00201E (base 16) NETQUEST CORPORATION
523 FELLOWSHIP ROAD-STE.#205
MT. LAUREL NJ 08054
US

00-60-8C (hex) 3COM
00608C (base 16) 3COM
5400 BAYFRONT PLAZA
SANTA CLARA CA 95052
US

00-A0-24 (hex) 3COM

00A024 (base 16) 3COM
5400 BAYFRONT PLAZA
SANTA CLARA CA 95052
US

00-20-AF (hex) 3COM
0020AF (base 16) 3COM
5400 BAYFRONT PLAZA
SANTA CLARA CA 95052
US

00-10-4B (hex) 3COM
00104B (base 16) 3COM
5400 BAYFRONT PLAZA
SANTA CLARA CA 95052
US

A8-5A-F3 (hex) Shanghai Siflower Communication Technology Co., Ltd
A85AF3 (base 16) Shanghai Siflower Communication
Technology Co., Ltd
Rm. 408, No. 84, Lane 887. Zhangjiang Hi-Tech Park. Zuchongzhi Rd. Shanghai, China
Shanghai Shanghai 201210
CN

70-FD-46 (hex) Samsung Electronics Co.,Ltd
70FD46 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

8C-83-E1 (hex) Samsung Electronics Co.,Ltd
8C83E1 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

64-5D-86 (hex) Intel Corporate
645D86 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

9C-AA-1B (hex) Microsoft Corporation
9CAA1B (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

E0-0E-E1 (hex) We Corporation Inc.
E00EE1 (base 16) We Corporation Inc.
201, 33, Deokcheon-ro, Manan-gu
Anyang-si Gyeonggi-do 14088
KR

A8-9A-93 (hex) Sagemcom Broadband SAS
A89A93 (base 16) Sagemcom Broadband SAS
250, route de
l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

8C-92-46 (hex) Oerlikon Textile Gmbh&Co.KG
8C9246 (base 16) Oerlikon Textile Gmbh&Co.KG
NO.9 Changyang Street
Suzhou Jiangsu 215000
CN

00-0E-94 (hex) Maas International BV
000E94 (base 16) Maas International BV
Science Park Eindhoven 5051
Son Noord Brabant NL-5692 EB
NL

00-0C-43 (hex) Ralink Technology, Corp.
000C43 (base 16) Ralink Technology, Corp.
4F, No.2, Technology 5th Road,
Hsin-Chu 200
TW

48-98-CA (hex) Sichuan AI-Link Technology Co., Ltd.
4898CA (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou,Industrial Park
Anzhou,Industrial Park Sichuan 621000
CN

24-7E-51 (hex) zte corporation
247E51 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

E8-B5-41 (hex) zte corporation
E8B541 (base 16) zte corporation
12/F.,zte R&D building
,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057

CN

0C-9D-92 (hex) ASUSTek COMPUTER INC.
0C9D92 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

0C-CB-85 (hex) Motorola Mobility LLC, a Lenovo Company
0CCB85 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

88-9F-6F (hex) Samsung Electronics Co.,Ltd
889F6F (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

5C-63-C9 (hex) Intellithings Ltd.
5C63C9 (base 16) Intellithings Ltd.
Hanehoshet 10
Tel Aviv Israel 6971072
IL

0C-96-E6 (hex) Cloud Network Technology (Samoa) Limited
0C96E6 (base 16) Cloud Network Technology (Samoa) Limited
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

3C-89-94 (hex) SKY UK LIMITED
3C8994 (base
16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

58-2D-34 (hex) Qingping Electronics (Suzhou) Co., Ltd
582D34 (base 16) Qingping Electronics (Suzhou) Co., Ltd
Room 304, A3 Building, NO.88 Dongchang Road, Suzhou Industrial Park
Suzhou Jiangsu Province 215028
CN

20-DE-88 (hex) IC Realtime LLC
20DE88 (base 16) IC Realtime LLC
3050 N Andrews Ave Ext.

Pompano Beach FL 33064
US

48-2C-A0 (hex) Xiaomi Communications Co Ltd
482CA0 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

A4-E6-15 (hex) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
A4E615 (base 16) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
Unit East Block22-24/F,Skyworth semiconductor design Bldg., Gaoxin Ave.4.S.,Nanshan District,Shenzhen,China
SHENZHEN GUANGDONG 518057
CN

00-1A-31 (hex) SCAN COIN AB
001A31 (base 16) SCAN COIN
AB
Jagershillgatan 26
Malmö Skåne 21375
SE

00-1B-84 (hex) Scan Engineering Telecom
001B84 (base 16) Scan Engineering Telecom
Svobody str. 75
Voronezh 394030
RU

F4-06-8D (hex) devolo AG
F4068D (base 16) devolo AG
Charlottenburger Allee 67
Aachen NRW 52068
DE

98-8E-D4 (hex) ITEL MOBILE LIMITED
988ED4 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

E8-A7-88 (hex) XIAMEN LEELEN TECHNOLOGY CO., LTD
E8A788 (base 16) XIAMEN LEELEN TECHNOLOGY CO., LTD
65 Sunban South Rd., Jimei North Industrial Zone,
Xiamen Fujian 361021
CN

34-12-F9 (hex) HUAWEI TECHNOLOGIES CO.,LTD
3412F9 (base 16) HUAWEI TECHNOLOGIES CO.,LTD

No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

BC-E2-65 (hex) HUAWEI TECHNOLOGIES CO.,LTD
BCE265 (base 16) HUAWEI TECHNOLOGIES
CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

4C-D1-A1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
4CD1A1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

88-BF-E4 (hex) HUAWEI TECHNOLOGIES CO.,LTD
88BFE4 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

40-17-E2 (hex) INTAI TECHNOLOGY CORP.
4017E2 (base 16) INTAI TECHNOLOGY CORP.
No.9, JINGKE RD.,NANTUN DIST.
TAICHUNG CITY 40852
TW

74-1F-79 (hex) YOUNGKOOK ELECTRONICS CO.,LTD
741F79 (base 16) YOUNGKOOK ELECTRONICS CO.,LTD
#810, Daewoo Frontier Valley 1,16-25, Dongbaekjungang-ro 16beon-gil, Giheung-gu
YONGIN Gyeonggi-do 17015
KR

E0-73-5F (hex) NUCOM
E0735F (base 16) NUCOM
Arte, 21,5B
Madrid Madrid 28033
ES

00-51-ED (hex) LG Innotek
0051ED
(base 16) LG Innotek
26, Hanamsandan 5beon-ro
Gwangju Gwangsan-gu 506-731
KR

40-DC-9D (hex) HAJEN
40DC9D (base 16) HAJEN
102-1302, Sinwon-ro 88, Yeongtong-gu
Suwon-Si Gyeonggi-do 16681
KR

F0-BC-C9 (hex) PFU LIMITED
F0BCC9 (base 16) PFU LIMITED
Nu 98-2 Unoke
Kahoku-shi, Ishikawa 929-1192
JP

B4-CE-FE (hex) James Czekaj
B4CEFE (base 16) James Czekaj
41716 Waterfall Rd
Northville MI 48168
US

88-AE-1D (hex) COMPAL INFORMATION (KUNSHAN) CO., LTD.
88AE1D (base 16) COMPAL INFORMATION (KUNSHAN) CO., LTD.
NO. 25, THE 3RD STREET KUNSHAN EXPORT PROCESSING ZONE
KUNSHAN SUZHOU 215300
CN

C4-51-8D (hex) Shenzhen YOUHUA Technology Co., Ltd
C4518D (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

48-68-34 (hex) Silicon Motion, Inc.
486834 (base
16) Silicon Motion, Inc.
8F, No. 36, Taiyuan St.
Zhubei City Hsinchu County 30265
TW

F8-CC-6E (hex) DEPO Electronics Ltd
F8CC6E (base 16) DEPO Electronics Ltd
12, kommunalnaya zona Krasnogorsk-Mitino
Krasnogorsk Moscow region 143404
RU

F8-36-9B (hex) Texas Instruments
F8369B (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

A0-93-51 (hex) Cisco Systems, Inc
A09351 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

98-03-9B (hex) Mellanox Technologies, Inc.
98039B (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway, Suite 100
Sunnyvale CA 94085
US

B8-88-E3 (hex) COMPAL INFORMATION (KUNSHAN) CO., LTD.
B888E3 (base 16) COMPAL INFORMATION (KUNSHAN) CO., LTD.
No.25, Third Avenue, A Zone, Kunshan Comprehensive Free Trade Zone,, Jiangsu,
KUNSHAN SUZHOU 215300
CN

20-89-84 (hex) COMPAL INFORMATION (KUNSHAN) CO., LTD.
208984
(base 16) COMPAL INFORMATION (KUNSHAN) CO., LTD.
No.25, Third Avenue, A Zone, Kunshan Comprehensive Free Trade Zone
KUNSHAN SUZHOU 215300
CN

64-13-31 (hex) Bosch Car Multimedia (Wuhu) Co. Ltd.
641331 (base 16) Bosch Car Multimedia (Wuhu) Co. Ltd.
NO.48 North Yinhu Road
Wuhu city Anhui Province 241000
CN

18-3A-48 (hex) VostroNet
183A48 (base 16) VostroNet
GPO Box 3154
Brisbane Queensland 4000
AU

78-2F-17 (hex) Xlab Co.,Ltd
782F17 (base 16) Xlab Co.,Ltd
#401 4F, Achasan-ro, Seongdong-gu
SEOUL 04793
KR

B0-02-7E (hex) MULLER SERVICES
B0027E (base 16) MULLER SERVICES
107 Boulevard Ney
PARIS ILE DE FRANCE 75018

FR

24-FA-F3 (hex) Shanghai Flexem Technology Co.,Ltd.
24FAF3 (base 16) Shanghai Flexem Technology Co.,Ltd.
Room 804, C6 Building,No.52 Bay Valley Technology Park, Lane 1688 North Guoquan Road, Yangpu District.
Shanghai 200438
CN

28-9E-FC
(hex) Sagemcom Broadband SAS
289EFC (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

00-C0-55 (hex) MODULAR COMPUTING TECHNOLOGIES
00C055 (base 16) MODULAR COMPUTING TECHNOLOGIES
2352 MAIN STREET
CONCORD MA 01742
US

E4-1F-E9 (hex) Dunkermotoren GmbH
E41FE9 (base 16) Dunkermotoren GmbH
Allmendstr. 11
Bonndorf Baden-Württemberg 79848
DE

D8-76-0A (hex) Escort, Inc.
D8760A (base 16) Escort, Inc.
5440 West Chester Rd.
West Chester Ohio 45069
US

48-75-83 (hex) Intellion AG
487583 (base 16) Intellion AG
Schuppisstrasse 10
St. Gallen St. Gallen 9016
CH

90-4C-81 (hex) Hewlett Packard Enterprise
904C81 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

8C-35-79 (hex) QDIQO Sp. z o.o.
8C3579 (base 16) QDIQO Sp. z o.o.
Stanisawa Wyspiaskiego 11

Zielona Góra lubuskie
65-036
PL

38-C7-0A (hex) WiFiSong
38C70A (base 16) WiFiSong
Rm. 605, Building 3, No. 75 Wenyi West Road
Hangzhou Zhengjiang 310012
CN

FC-FB-FB (hex) Cisco Systems, Inc
FCFBFB (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

88-D2-BF (hex) German Autolabs
88D2BF (base 16) German Autolabs
Köpenicker Str. 154
Berlin Berlin 10997
DE

20-16-3D (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
20163D (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

5C-2E-D2 (hex) ABC(XiSheng) Electronics Co.,Ltd
5C2ED2 (base 16) ABC(XiSheng) Electronics Co.,Ltd
No.2 Industrial building, FuRong 7 Road
ShenZhen GongDong 518100
CN

9C-5A-44 (hex) COMPAL INFORMATION (KUNSHAN) CO., LTD.
9C5A44 (base 16) COMPAL INFORMATION (KUNSHAN) CO., LTD.
NO. 25, THE 3RD Street KUNSHAN EXPORT PROCESSING
ZONE
KUNSHAN SUZHOU 215300
CN

34-0A-98 (hex) HUAWEI TECHNOLOGIES CO.,LTD
340A98 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

64-6D-6C (hex) HUAWEI TECHNOLOGIES CO.,LTD

646D6C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C4-B8-B4 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C4B8B4 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

14-CA-A0 (hex) Hu&Co
14CAA0 (base 16) Hu&Co
105 Rue du Jardin
Bordeaux 33000
FR

00-11-33 (hex) Siemens AG Austria
001133 (base 16) Siemens AG Austria
Siemensstrasse 90-92
Vienna 1210
AT

00-0B-23 (hex) Siemens Home & Office Comm. Devices
000B23 (base 16) Siemens Home & Office Comm. Devices
4849 Alpha Road
Dallas 74244
US

D8-24-77
(hex) Universal Electric Corporation
D82477 (base 16) Universal Electric Corporation
168 Georgetown Road
Canonsburg PA 15317
US

00-90-7F (hex) WatchGuard Technologies, Inc.
00907F (base 16) WatchGuard Technologies, Inc.
605 Fifth Ave. S
Seattle WA 98104-3892
US

4C-5E-0C (hex) Routerboard.com
4C5E0C (base 16) Routerboard.com
Mikrotikls SIA
Riga LV1009
LV

D4-CA-6D (hex) Routerboard.com
D4CA6D (base 16) Routerboard.com
Mikrotikls SIA
Riga LV-1009
LV

00-10-17 (hex) Bosch Access Systems GmbH
001017 (base 16) Bosch Access Systems GmbH
Charlottenburger Allee 50
AACHEN D-52068
DE

F4-EE-14 (hex) MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
F4EE14 (base 16) MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
Mid-Fourth Flr.,Building 28,Cui Xi Fourth Road,Ke Yuan West,Nanshan
Shenzhen Guangdong 518057
CN

6C-59-40 (hex) MERCURY COMMUNICATION
TECHNOLOGIES CO.,LTD.
6C5940 (base 16) MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
Mid-Fourth Flr.,Building 28,Cui Xi Fourth Road,Ke Yuan West,Nanshan
Shenzhen Guangdong 518057
CN

D0-25-16 (hex) MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
D02516 (base 16) MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
Mid-Fourth Flr.,Building 28,Cui Xi Fourth Road,Ke Yuan West,Nanshan
Shenzhen Guangdong 518057
CN

1C-60-DE (hex) MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
1C60DE (base 16) MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
Mid-Fourth Flr.,Building 28,Cui Xi Fourth Road,Ke Yuan West,Nanshan
Shenzhen Guangdong 518057
CN

08-D4-6A (hex) LG Electronics (Mobile Communications)
08D46A (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

00-14-72 (hex) China Broadband Wireless IP Standard group(ChinaBWIPS)
001472 (base 16) China Broadband Wireless IP Standard
group(ChinaBWIPS)
P.O.BOX 88,West High-tech
Xi'an Shaan Xi 710075

CN

00-7E-95 (hex) Cisco Systems, Inc
007E95 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

40-06-A0 (hex) Texas Instruments
4006A0 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

80-B5-75 (hex) HUAWEI TECHNOLOGIES CO.,LTD
80B575 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A4-BE-2B (hex) HUAWEI TECHNOLOGIES CO.,LTD
A4BE2B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

28-11-A5 (hex) Bose Corporation
2811A5 (base 16) Bose Corporation
The Mountain
Framingham MA 01701-9168
US

D8-F3-DB (hex) Post CH AG
D8F3DB (base 16) Post CH AG
Wankdorfallee 4
Bern 3030
CH

DC-B4-AC (hex) FLEXTRONICS MANUFACTURING(ZHUHAI)CO.,LTD.
DCB4AC
(base 16) FLEXTRONICS MANUFACTURING(ZHUHAI)CO.,LTD.
Xin Qing Science & Technology Industrial Park,Jin An Town,Doumen ,Zhuhai,Guangdong,PRC
Zhuhai Guangdong 519180
CN

20-3D-BD (hex) LG Innotek
203DBD (base 16) LG Innotek
26, Hanamsandan 5beon-ro

Gwangju Gwangsan-gu 506-731
KR

04-EC-BB (hex) Fiberhome Telecommunication Technologies Co.,LTD
04ECBB (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

D4-21-22 (hex) Sercomm Corporation.
D42122 (base 16) Sercomm Corporation.
3F,No.81,Yu-Yih Rd.,Chu-Nan Chen
Miao-Lih Hsuan 115
TW

00-C0-02 (hex) Sercomm Corporation.
00C002 (base 16) Sercomm Corporation.
3F,No.81,Yu-Yih Rd.,Chu-Nan Chen
Miao-Lih Hsuan 115
TW

68-E7-C2 (hex) Samsung Electronics Co.,Ltd
68E7C2 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

58-B1-0F
(hex) Samsung Electronics Co.,Ltd
58B10F (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A4-53-85 (hex) WEIFANG GOERTEK ELECTRONICS CO.,LTD
A45385 (base 16) WEIFANG GOERTEK ELECTRONICS CO.,LTD
Gaoxin 2 Road,Free Trade Zone,Weifang,Shandong,261205,P.R.China
Weifang Shandong 261205
CN

00-40-2F (hex) XLNT DESIGNS INC.
00402F (base 16) XLNT DESIGNS INC.
15050 AVENUE OF SCIENCE
SAN DIEGO CA 92128
US

A4-92-CB (hex) Nokia
A492CB (base 16) Nokia

600 March Road
Kanata Ontario K2K 2E6
CA

C0-D2-F3 (hex) Hui Zhou Gaoshengda Technology Co.,LTD
C0D2F3 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.75,Zhongkai High-Tech Development District,Huizhou
Hui Zhou Guangdong 516006
CN

64-A2-F9 (hex) OnePlus Technology (Shenzhen) Co., Ltd
64A2F9 (base 16) OnePlus Technology (Shenzhen) Co., Ltd
18C02, 18C03, 18C04 ,18C05,TAIRAN BUILDING,
Shenzhen
Guangdong 518000
CN

A8-7D-12 (hex) HUAWEI TECHNOLOGIES CO.,LTD
A87D12 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B8-83-03 (hex) Hewlett Packard Enterprise
B88303 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

94-19-3A (hex) Elvaco AB
94193A (base 16) Elvaco AB
Kabelgatan 2T
Kungsbacka 43437
SE

BC-99-11 (hex) Zyxel Communications Corporation
BC9911 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

28-02-45 (hex) Konze System Technology Co.,Ltd.
280245 (base 16) Konze System Technology Co.,Ltd.
4F., No.134, Ln. 235, Baoqiao Rd., Xindian Dist.
New Taipei City --- 231
TW

E4-8F-65 (hex) Yelatma Instrument Making Enterprise, JSC

E48F65 (base 16) Yelatma Instrument Making Enterprise, JSC
Yanina
25
Yelatma Ryazan Region 391351
RU

84-0D-8E (hex) Espressif Inc.
840D8E (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

00-BB-3A (hex) Amazon Technologies Inc.
00BB3A (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

F8-2D-C0 (hex) ARRIS Group, Inc.
F82DC0 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

18-9C-27 (hex) ARRIS Group, Inc.
189C27 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

3C-F5-CC (hex) New H3C Technologies Co., Ltd
3CF5CC (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

00-20-82 (hex) ONEAC CORPORATION
002082 (base 16) ONEAC CORPORATION
27944 N. BRADLEY RD.
LIBERTYVILLE IL 60048
US

00-00-A8 (hex) Stratus Technologies
0000A8 (base 16) Stratus
Technologies
5 Mill and Main Place, Suite 500
Maynard MA 01754
US

00-04-FC (hex) Stratus Technologies
0004FC (base 16) Stratus Technologies
5 Mill and Main Place, Suite 500
Maynard MA 01754
US

3C-24-F0 (hex) IEEE Registration Authority
3C24F0 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

0C-B3-4F (hex) Shenzhen Xiaoqi Intelligent Technology Co., Ltd.
0CB34F (base 16) Shenzhen Xiaoqi Intelligent Technology Co., Ltd.
Room 1501, Block B4, Building 9, Section 2, Shenzhen Bay Science & Technology Ecological Park, West Shahe Road, Nanshan District,
Shenzhen Guangdong 518000
CN

C0-81-35 (hex) Ningbo Forfan technology Co., LTD
C08135 (base 16) Ningbo Forfan technology Co., LTD
Room B308,Tianjing Building,Tianan Cyber Park,Futian
Shenzhen Guangdong 518040
CN

3C-F4-F9 (hex) Moda-InnoChips
3CF4F9 (base 16) Moda-InnoChips
42-7(Wonsi-Dong),Dongsan-ro
27beon-gil,Danwon-gu
Ansan-si Gyeonggi-Do 15433
KR

50-5D-AC (hex) HUAWEI TECHNOLOGIES CO.,LTD
505DAC (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B0-A3-7E (hex) QING DAO HAIER TELECOM CO.,LTD.
B0A37E (base 16) QING DAO HAIER TELECOM CO.,LTD.
No.1,Haier Road,Qingdao 266101 P.R.China
Qingdao Shandong 266101
CN

3C-EA-F9 (hex) JUBIXCOLTD
3CEAF9 (base 16) JUBIXCOLTD
Rm 808, 809, B dong, Gunpo IT vally, 17, Gosan-ro 148beon-gil, Gunpo-si, Gyeonggi-do, Republic of Korea

GUNPOSI 15850
KR

68-2C-7B (hex) Cisco Systems, Inc
682C7B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E8-FA-F7 (hex) Guangdong Uniteddata Holding Group Co., Ltd.
E8FAF7 (base 16) Guangdong Uniteddata Holding Group Co., Ltd.
39L, Pearl River Tower, No.15 Zhujiang West Road,Tianhe District
GUANGZHOU GUANGDONG
510623
CN

94-9D-57 (hex) Panasonic do Brasil Limitada
949D57 (base 16) Panasonic do Brasil Limitada
Rua Matrinxa
Manaus Amazonas 69075150
BR

FC-69-47 (hex) Texas Instruments
FC6947 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

E0-7D-EA (hex) Texas Instruments
E07DEA (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

B4-C0-F5 (hex) Shenzhen TINNO Mobile Technology Corp.
B4C0F5 (base 16) Shenzhen TINNO Mobile Technology Corp.
Building, No.33, Xiandong Rd, Xili
Nanshan District, Shenzhen PRC 518053
CN

40-62-31 (hex) GIFA
406231 (base 16) GIFA
11th Fl., Suojia Business Building , No.7 Hangkong Road , Baoan District
Shenzhen Guangdong 518000
CN

FC-B7-F0 (hex) Idaho National Laboratory
FCB7F0 (base 16) Idaho National Laboratory

2525 N. Fremont Ave
Idaho Falls ID 83415
US

04-D3-B0 (hex) Intel Corporate
04D3B0 (base 16) Intel
Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

58-DB-15 (hex) TECNO MOBILE LIMITED
58DB15 (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

50-50-CE (hex) Hangzhou Dianyixia Communication Technology Co. Ltd.
5050CE (base 16) Hangzhou Dianyixia Communication Technology Co. Ltd.
Room 207, Building 7, 1197 bin 'an road, Binjiang district,
Hangzhou Zhejiang 310011
CN

2C-28-B7 (hex) Hangzhou Ruiying technology co., LTD
2C28B7 (base 16) Hangzhou Ruiying technology co., LTD
No. 1, building 305, Yunqi Town Cloud Computing Industrial Park, Hangzhou City, Xihu District
Hangzhou Zhejiang 310000
CN

04-6B-1B (hex) SYSDINE Co., Ltd.
046B1B (base 16) SYSDINE Co., Ltd.
506 Convergence technology research commercialization center 218 Gajung-Ro, Yuseong-gu
Daejeon-City
Daejeon-City 34129
KR

1C-66-6D (hex) Hon Hai Precision Ind. Co.,Ltd.
1C666D (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

DC-DE-4F (hex) Gionee Communication Equipment Co Ltd
DCDE4F (base 16) Gionee Communication Equipment Co Ltd
21/F Times Technology Building, 7028 Shennan Road
Shenzhen Futian District 518040
CN

4C-D0-CB (hex) HUAWEI TECHNOLOGIES CO.,LTD
4CD0CB (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

88-D3-7B (hex) FirmTek, LLC
88D37B (base 16) FirmTek, LLC
29300 Kohoutek Way
Union City CA 94587
US

44-1E-98 (hex) Ruckus Wireless
441E98 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

00-72-78 (hex) Cisco Systems, Inc
007278 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose
CA 94568
US

00-A0-21 (hex) General Dynamics Mission Systems
00A021 (base 16) General Dynamics Mission Systems
150 Rustcraft Road
Dedham MA 02026
US

90-DD-5D (hex) Apple, Inc.
90DD5D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-AF-50 (hex) Phantom Intelligence
F0AF50 (base 16) Phantom Intelligence
319 Rue Franquet Suite F
Quebec QC G1P 4R4
CA

00-25-0C (hex) Senet Inc
00250C (base 16) Senet Inc
100 Market Street, Suite 302
Portsmouth NH 03801

US

0C-80-63 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
0C8063 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

B4-CD-27 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B4CD27 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C8-19-F7
(hex) Samsung Electronics Co.,Ltd
C819F7 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

DC-29-19 (hex) AltoBeam (Xiamen) Technology Ltd, Co.
DC2919 (base 16) AltoBeam (Xiamen) Technology Ltd, Co.
South Building 203-38,Huoju Square ,No.56-58,Huoju Road, Huoju Park, Huoju High-tech District
Xiamen 361000
CN

64-5A-ED (hex) Apple, Inc.
645AED (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

84-F3-EB (hex) Espressif Inc.
84F3EB (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

00-1B-48 (hex) Shenzhen Lantech Electronics Co., Ltd.
001B48 (base 16) Shenzhen Lantech Electronics Co., Ltd.
306 Room, Nanshan Water Building,
Shenzhen Guangdong 518052
CN

FC-2A-9C (hex) Apple, Inc.
FC2A9C (base 16) Apple, Inc.
1 Infinite Loop

Cupertino CA 95014
US

A0-56-F3
(hex) Apple, Inc.
A056F3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

54-99-63 (hex) Apple, Inc.
549963 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C0-B6-58 (hex) Apple, Inc.
C0B658 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

48-A9-1C (hex) Apple, Inc.
48A91C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

50-BC-96 (hex) Apple, Inc.
50BC96 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-2F-D9 (hex) Fiberhome Telecommunication Technologies Co.,LTD
002FD9 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

88-5F-E8 (hex) IEEE Registration Authority
885FE8 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

38-80-DF (hex) Motorola Mobility LLC, a Lenovo Company
3880DF (base

16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

BC-6A-2F (hex) Henge Docks LLC
BC6A2F (base 16) Henge Docks LLC
455 10th St.
San Francisco California 94103
US

F4-E1-1E (hex) Texas Instruments
F4E11E (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

C4-2C-4F (hex) Qingdao Hisense Mobile Communication Technology Co,Ltd
C42C4F (base 16) Qingdao Hisense Mobile Communication Technology Co,Ltd
No.399, Song Ling Road
Qingdao Shandong 266100
CN

24-CA-CB (hex) Fiberhome Telecommunication Technologies Co.,LTD
24CACB (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

54-3E-64 (hex) Fiberhome Telecommunication Technologies Co.,LTD
543E64 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

64-02-CB (hex) ARRIS Group,
Inc.
6402CB (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

0C-08-B4 (hex) HUMAX Co., Ltd.
0C08B4 (base 16) HUMAX Co., Ltd.
HUMAX Village, 216, Hwangsaeul-ro, Bu
Seongnam-si Gyeonggi-do 463-875
KR

DC-02-65 (hex) Meditech Kft
DC0265 (base 16) Meditech Kft
Üllõi út 200.
Budapest 1191
HU

48-BD-3D (hex) New H3C Technologies Co., Ltd
48BD3D (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

00-27-05 (hex) Sectronic
002705 (base 16) Sectronic
Z.I. Les Saulniers
Sainte-Maure de Touraine 37800
FR

18-0F-76 (hex) D-Link International
180F76 (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

90-94-97 (hex) HUAWEI TECHNOLOGIES CO.,LTD
909497 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake
Technology Park
Dongguan 523808
CN

DC-72-9B (hex) HUAWEI TECHNOLOGIES CO.,LTD
DC729B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

14-A7-2B (hex) currentoptronics Pvt.Ltd
14A72B (base 16) currentoptronics Pvt.Ltd
CRT Building, Jupitor Jn , Near Time kids Koothattukulam - Piravom Rd
ERNAKULAM Time Kids day care 686662
IN

3C-17-10 (hex) Sagemcom Broadband SAS
3C1710 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

34-02-9B (hex) Plexonics Technologies LImited
34029B (base 16) Plexonics Technologies LImited
1st Floor, 181/23 Industrial Area Phase 1
Chandigarh Punjab 160002
IN

84-DB-9E (hex) Pink Nectarine Health AB
84DB9E (base 16) Pink Nectarine Health AB
Munkbron 11
Stockholm 111 28
SE

A4-DA-22 (hex) IEEE Registration Authority
A4DA22
(base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

90-03-72 (hex) Longnan Junya Digital Technology Co. Ltd.
900372 (base 16) Longnan Junya Digital Technology Co. Ltd.
Champion Asia Road, Xinzhen industrial Park, Longnan national economic and technological development zone, Ganzhou city, JiangXi Province , China
ganzhou jiangxi 341700
CN

8C-4C-AD (hex) Evoluzn Inc.
8C4CAD (base 16) Evoluzn Inc.
34 Samoset Lane
Schaumburg IL 60193
US

8C-F9-57 (hex) RuiXingHengFang Network (Shenzhen) Co.,Ltd
8CF957 (base 16) RuiXingHengFang Network (Shenzhen) Co.,Ltd
Room 507, 2nd tower of KangTai biological building NO.6 KeFa Rd. NanShan District
Shenzhen Guangdong 518057
CN

0C-C6-CC (hex) HUAWEI TECHNOLOGIES CO.,LTD
0CC6CC (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

78-58-60 (hex) HUAWEI TECHNOLOGIES
CO.,LTD
785860 (base 16) HUAWEI TECHNOLOGIES CO.,LTD

No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

4C-77-6D (hex) Cisco Systems, Inc
4C776D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

3C-DC-BC (hex) Samsung Electronics Co.,Ltd
3CDCBC (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

80-4E-70 (hex) Samsung Electronics Co.,Ltd
804E70 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D4-E6-B7 (hex) Samsung Electronics Co.,Ltd
D4E6B7 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

74-E1-82 (hex) Texas Instruments
74E182 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

E8-DE-FB (hex) MESOTIC SAS
E8DEFB (base 16) MESOTIC SAS
11, Avenue de la Division Leclerc
Cachan
94230
FR

C4-00-AD (hex) Advantech Technology (CHINA) Co., Ltd.
C400AD (base 16) Advantech Technology (CHINA) Co., Ltd.
No.666, Han-Pu Rd. Yu-Shan
Kun-Shan Jiang Su 215316
CN

94-FE-9D (hex) SHENZHEN GONGJIN ELECTRONICS CO.,LT

94FE9D (base 16) SHENZHEN GONGJIN ELECTRONICS CO.,LT
SONGGANG
SHENZHEN GUANGDONG 518105
CN

6C-B6-CA (hex) DIVUS GmbH
6CB6CA (base 16) DIVUS GmbH
Pillhof 51
Eppan 39057
IT

04-D1-3A (hex) Xiaomi Communications Co Ltd
04D13A (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

6C-C4-D5 (hex) HMD Global Oy
6CC4D5 (base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo 02600
FI

80-C5-48 (hex) Shenzhen Zowee Technology Co.,Ltd
80C548 (base 16) Shenzhen Zowee Technology Co.,Ltd
NO.5 Zowee technology building, Science & Technology industrial park of privately
Science & Technology industrial park of privately owned enterprises
Shenzhen GuangDong 518055
CN

00-24-AF (hex) Dish Technologies Corp
0024AF (base 16) Dish Technologies Corp
94 Inverness Terrace E
Englewood CO 80112
US

C0-A8-F0 (hex) Adamson Systems Engineering
C0A8F0 (base 16) Adamson Systems Engineering
1401 Scugog Line 6
Port Perry Ontario L9L 1B2
CA

9C-43-1E (hex) IEEE Registration Authority
9C431E (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

4C-C2-06 (hex) Somfy
4CC206 (base 16) Somfy
50 avenue du nouveau monde
Cluses 74300
FR

04-09-73 (hex) Hewlett Packard Enterprise
040973 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

34-99-D7 (hex) Universal Flow Monitors, Inc.
3499D7 (base 16) Universal Flow Monitors, Inc.
1755 E. Nine Mile Rd.
Hazel Park MI 48030
US

0C-8B-D3 (hex) ITEL
MOBILE LIMITED
0C8BD3 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

E8-AB-F3 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E8ABF3 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

44-9E-F9 (hex) vivo Mobile Communication Co., Ltd.
449EF9 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

B4-E9-A3 (hex) port industrial automation GmbH
B4E9A3 (base 16) port industrial automation GmbH
Regensburger Str. 7b
Halle (S.) 06132
DE

6C-2A-CB (hex) Paxton Access Ltd
6C2ACB (base 16) Paxton Access Ltd
Paxton House
Brighton East Sussex BN1 9HU
GB

98-00-74 (hex) Raisecom Technology CO., LTD
980074 (base 16) Raisecom Technology CO., LTD
No. 11, East Area, No. 10
Block, East Xibeiwang Road
Beijing 100094
CN

18-C1-9D (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
18C19D (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

0C-98-38 (hex) Xiaomi Communications Co Ltd
0C9838 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

28-2C-02 (hex) IEEE Registration Authority
282C02 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

58-3B-D9 (hex) Fiberhome Telecommunication Technologies Co.,LTD
583BD9 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

FC-A1-83 (hex) Amazon Technologies Inc.
FCA183 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno 89507
US

C4-84-66 (hex) Apple, Inc.
C48466 (base
16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

34-7C-25 (hex) Apple, Inc.
347C25 (base 16) Apple, Inc.
1 Infinite Loop

Cupertino CA 95014
US

CC-2D-B7 (hex) Apple, Inc.
CC2DB7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

DC-A2-66 (hex) Hon Hai Precision Ind. Co.,Ltd.
DCA266 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

A0-BD-CD (hex) SKY UK LIMITED
A0BDCD (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

BC-91-B5 (hex) Infinix mobility limited
BC91B5 (base 16) Infinix mobility limited
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
HongKong HongKong 999077
HK

74-EA-CB (hex) New H3C Technologies Co., Ltd
74EACB (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang
310052
CN

5C-86-5C (hex) Samsung Electronics Co.,Ltd
5C865C (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

04-F1-28 (hex) HMD Global Oy
04F128 (base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo 02600
FI

D4-1A-3F (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD

D41A3F (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

30-C5-07 (hex) ECI Telecom Ltd.
30C507 (base 16) ECI Telecom Ltd.
30 Hasivim St.
Petah Tikva 49133
IL

28-2F-C2 (hex) Automotive Data Solutions
282FC2 (base 16) Automotive Data Solutions
8400 rue Bougainville
Montreal Quebec H4P2G1
CA

44-AD-19 (hex) XINGFEI H.KLIMITED
44AD19 (base 16) XINGFEI H.KLIMITED
6/F North Tower Wandelai Building No.29 Kejinan 6th Road, Nanshan District,Shenzhen,China
Shenzhen 518057
CN

00-0F-9B
(hex) Ross Video Limited
000F9B (base 16) Ross Video Limited
8 John Street
Iroquois Ontario K0E 1K0
CA

00-24-BA (hex) Texas Instruments
0024BA (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

60-51-2C (hex) TCT mobile ltd
60512C (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

64-DB-81 (hex) Syszone Co., Ltd.
64DB81 (base 16) Syszone Co., Ltd.
9F Garak, 310 Ogeum-ro
Seoul Seoul, Korea 138-716
KR

38-17-C3 (hex) Hewlett Packard Enterprise
3817C3 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

1C-DF-52 (hex) Texas Instruments
1CDF52 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

04-B1-67 (hex) Xiaomi Communications Co Ltd
04B167 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68,
Qinghe Middle Street Haidian District, Beijing 100085
CN

EC-83-50 (hex) Microsoft Corporation
EC8350 (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

5C-AD-76 (hex) Shenzhen TCL New Technology Co., Ltd
5CAD76 (base 16) Shenzhen TCL New Technology Co., Ltd
B area,10 Floor, TCL Multimedia Building, TCL International E city, #1001 Zhongshan Park Road, Nanshan District
Shenzhen Guangdong 518052
CN

64-6E-6C (hex) Radio Datacom LLC
646E6C (base 16) Radio Datacom LLC
9601 N 35th St
Phoenix AZ 85028
US

E8-8E-60 (hex) NSD Corporation
E88E60 (base 16) NSD Corporation
Osu 3-31-28
Nagoya Aichi 460-8302
JP

38-AD-BE (hex) New H3C Technologies Co., Ltd
38ADBE (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052

CN

0C-52-03 (hex) AGM GROUP LIMITED
0C5203 (base 16) AGM GROUP LIMITED
4F,Building
B,HuaFeng Ind park,Gushu,Xixiang,BaoAn,ShenZhen,China
ShenZhen GuangDong 518100
CN

2C-54-91 (hex) Microsoft Corporation
2C5491 (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

C8-45-8F (hex) Wyler AG
C8458F (base 16) Wyler AG
Im Hoelderli 13
Winterthur ZH 8405
CH

00-1B-B9 (hex) Elitegroup Computer Systems Co.,Ltd.
001BB9 (base 16) Elitegroup Computer Systems Co.,Ltd.
No.22, Alley 38, Lane 91 , Sec. 1 , Nei Hu Road
Taipei 114
TW

00-24-61 (hex) Shin Wang Tech.
002461 (base 16) Shin Wang Tech.
632-62, Guro-Dong, Guro-Gu
Seoul 152-866
KR

E4-A7-A0 (hex) Intel Corporate
E4A7A0 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

38-D7-CA (hex) 7HUGS LABS
38D7CA (base 16) 7HUGS LABS
29 bd Romain Rolland
Montrouge 92120
FR

5C-E2-8C (hex) Zyxel Communications Corporation
5CE28C (base 16) Zyxel

Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

E4-BD-4B (hex) zte corporation
E4BD4B (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

00-1E-1D (hex) East Coast Datacom, Inc.
001E1D (base 16) East Coast Datacom, Inc.
245 Gus Hipp Blvd., STE 3
Rockledge FL 32955
US

78-46-C4 (hex) DAEHAP HYPER-TECH
7846C4 (base 16) DAEHAP HYPER-TECH
#A-805, Woolim Lions Vally 5-cha, #144-3 Sangdaewon-dong, Jungwon-Gu
Seongnam 462-726
US

00-01-44 (hex) Dell EMC
000144 (base 16) Dell EMC
228 South St.
Hopkinton MA 01748
US

08-00-1B (hex) Dell EMC
08001B (base 16) Dell EMC
176 South Street
Hopkinton MA 01748
US

7C-01-0A (hex) Texas Instruments
7C010A (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

70-1F-53 (hex) Cisco Systems, Inc
701F53
(base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

18-39-6E (hex) SUNSEA TELECOMMUNICATIONS CO.,LTD.
18396E (base 16) SUNSEA TELECOMMUNICATIONS CO.,LTD.
High tech Industrial Park,Longhua District of Shenzhen City,South central concept
Shenzhen 518110
CN

EC-7D-11 (hex) vivo Mobile Communication Co., Ltd.
EC7D11 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

A0-4E-A7 (hex) Apple, Inc.
A04EA7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-98-9D (hex) Apple, Inc.
F0989D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E4-2B-34 (hex) Apple, Inc.
E42B34 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

3C-2E-F9 (hex) Apple, Inc.
3C2EF9 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

FC-D6-BD (hex) Robert
Bosch GmbH
FCD6BD (base 16) Robert Bosch GmbH
AE-BE/EKE
Leonberg BW 71206
DE

0C-1C-20 (hex) Kakao Corp
0C1C20 (base 16) Kakao Corp
242, Cheomdan-ro
Jeju-si Jeju-do 63309
KR

94-28-2E (hex) New H3C Technologies Co., Ltd
94282E (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

68-3C-7D (hex) Magic Intelligence Technology Limited
683C7D (base 16) Magic Intelligence Technology Limited
B13/Flat 4,East block,Jinhui Blding.Nanhai Road
Nanshan District, Shenzhen guangdong 518000
CN

74-BB-D3 (hex) Shenzhen xeme Communication Co., Ltd.
74BBD3 (base 16) Shenzhen xeme Communication Co., Ltd.
303,Block D,Huayuan technology innovation park,Bao Yuen road,Xixiang street,Baoan District
Shenzhen Guangdong 518102
CN

D8-08-31 (hex) Samsung Electronics Co.,Ltd
D80831 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi
Gyeongbuk 730-350
KR

48-BA-4E (hex) Hewlett Packard
48BA4E (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston TX 77070
US

94-41-C1 (hex) Mini-Cam Limited
9441C1 (base 16) Mini-Cam Limited
Unit 4 Yew Tree Way
Warrington Cheshire WA33JD
GB

18-52-82 (hex) Fiberhome Telecommunication Technologies Co.,LTD
185282 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

50-0F-80 (hex) Cisco Systems, Inc
500F80 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568

US

50-4E-DC (hex) Ping Communication
504EDC (base 16) Ping Communication
Brenden 18
Appenzell Meistersrüte AI 9050
CH

08-67-4E (hex) Hisense broadband multimedia technology Co.,Ltd
08674E (base 16) Hisense broadband multimedia technology Co.,Ltd
Song ling Road 399
Qingdao 266000
CN

8C-3C-4A (hex) NAKAYO Inc
8C3C4A
(base 16) NAKAYO Inc
Development Support Center 165 Higashiomuro-machi
Maebashi-shi Gunma 379-2105
JP

70-86-C1 (hex) Texas Instruments
7086C1 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

10-F1-F2 (hex) LG Electronics (Mobile Communications)
10F1F2 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

8C-68-C8 (hex) zte corporation
8C68C8 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

EC-82-63 (hex) zte corporation
EC8263 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

98-F5-A9 (hex) OHSUNG
98F5A9 (base 16) OHSUNG
181

GUMI KYUNGBUK 730-030
KR

6C-B7-49 (hex) HUAWEI TECHNOLOGIES CO.,LTD
6CB749 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan
Lake Technology Park
Dongguan 523808
CN

98-9C-57 (hex) HUAWEI TECHNOLOGIES CO.,LTD
989C57 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F4-D7-B2 (hex) LGS Innovations, LLC
F4D7B2 (base 16) LGS Innovations, LLC
13665 Dulles Technology Drive
Herndon VA 20171
US

00-15-2A (hex) Nokia Corporation
00152A (base 16) Nokia Corporation
Rensingstraße 15
Bochum NRW 44807
DE

9C-4A-7B (hex) Nokia Corporation
9C4A7B (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu Ou 90590
FI

2C-D2-E7 (hex) Nokia Corporation
2CD2E7 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu Ou 90590
FI

48-EC-5B (hex) Nokia Solutions and Networks GmbH & Co. KG
48EC5B (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541
DE

D8-61-62 (hex) Wistron Neweb

Corporation
D86162 (base 16) Wistron Neweb Corporation
No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu R.O.C. 308
TW

DC-6A-EA (hex) Infinix mobility limited
DC6AEA (base 16) Infinix mobility limited
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
HongKong HongKong 999077
HK

38-6E-A2 (hex) vivo Mobile Communication Co., Ltd.
386EA2 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

98-2D-68 (hex) Samsung Electronics Co., Ltd
982D68 (base 16) Samsung Electronics Co., Ltd
Samsung 1-ro
Hwaseong-si Gyeonggi-do 445330
KR

44-4A-B0 (hex) Zhejiang Moorgen Intelligence Technology Co., Ltd
444AB0 (base 16) Zhejiang Moorgen Intelligence Technology Co., Ltd
No.181 Changluo road Luotuo street Zhenhai district
Ningbo Zhejiang 315202
CN

80-73-9F (hex) KYOCERA CORPORATION
80739F (base
16) KYOCERA CORPORATION
2-1-1 Kagahara
Yokohama-shi Kanagawa 224-8502
JP

28-84-0E (hex) silicon valley immigration service
28840E (base 16) silicon valley immigration service
1410 Sharp Ave,
Campbell CA 95008
US

08-00-70 (hex) Mitsubishi Precision Co.,LTd.
080070 (base 16) Mitsubishi Precision Co.,LTd.
325 KAMIMACHIYA
000 00

JP

C4-21-C8 (hex) KYOCERA CORPORATION
C421C8 (base 16) KYOCERA CORPORATION
2-1-1,Kagahara,
Yokohama-shi Kanagawa 224-8502
JP

EC-EB-B8 (hex) Hewlett Packard Enterprise
ECEBB8 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

80-61-5F (hex) Beijing Sinead Technology Co., Ltd.
80615F (base 16) Beijing Sinead Technology Co., Ltd.
Room 504,Block A, New material Building, Yongfeng industrial, Haiding District, Beijing.China
Beijing Beijing 100094
CN

BC-2E-48 (hex) ARRIS Group, Inc.
BC2E48 (base
16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

60-8C-E6 (hex) ARRIS Group, Inc.
608CE6 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

34-00-8A (hex) IEEE Registration Authority
34008A (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

90-50-CA (hex) Hitron Technologies. Inc
9050CA (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

40-99-22 (hex) AzureWave Technology Inc.
409922 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.

New Taipei City Taiwan 231
TW

C0-6D-1A (hex) Tianjin Henxinhuifeng Technology Co.,Ltd.
C06D1A (base 16) Tianjin Henxinhuifeng Technology Co.,Ltd.
Rm 233, Tianjin Technology Innovation Service Center, 12 Keyan West Road, Nankai District, Tianjin, P.R.C.
Tianjin Tianjin 300192
CN

10-7B-44
(hex) ASUSTek COMPUTER INC.
107B44 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

A4-11-15 (hex) Robert Bosch Engineering and Business Solutions pvt. Ltd.
A41115 (base 16) Robert Bosch Engineering and Business Solutions pvt. Ltd.
123, Industrial Layout, Hosur Road, Koramangala,
Bangalore Karnataka 560095
IN

F4-F3-AA (hex) JBL GmbH & Co. KG
F4F3AA (base 16) JBL GmbH & Co. KG
Dieselstrasse 3
Neuhofen 67141
DE

40-A3-CC (hex) Intel Corporate
40A3CC (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

84-25-3F (hex) silex technology, Inc.
84253F (base 16) silex technology, Inc.
2-3-1 Hikaridai
Seika-cho Kyoto 619-0237
JP

00-08-C9 (hex) TechniSat Digital GmbH Daun
0008C9 (base 16) TechniSat Digital GmbH Daun
Gewerbepark Merbitz Nr. 5
Dresden 01156
US

D8-B1-2A (hex) Panasonic Mobile

Communications Co.,Ltd.
D8B12A (base 16) Panasonic Mobile Communications Co.,Ltd.
600 Saedo-cho Tsuzuki-ku
Yokohama City Kanagawa 224-8539
JP

70-58-12 (hex) Panasonic Corporation AVC Networks Company
705812 (base 16) Panasonic Corporation AVC Networks Company
1-15 Matsuo-cho
Kadoma Osaka 571-8504
JP

04-20-9A (hex) Panasonic Corporation AVC Networks Company
04209A (base 16) Panasonic Corporation AVC Networks Company
1-15 Matsuo-cho
Kadoma City Osaka 571-8504
JP

40-D6-3C (hex) Equitech Industrial(DongGuan)Co.,Ltd
40D63C (base 16) Equitech Industrial(DongGuan)Co.,Ltd
4F Building B No.2 ShiChang Road SongYuan Technology Park,DongCheng District
DongGuan GuangDong 523122
CN

AC-51-2C (hex) Infinix mobility limited
AC512C (base 16) Infinix mobility limited
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
HongKong HongKong 999077
HK

B0-19-C6
(hex) Apple, Inc.
B019C6 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

38-66-F0 (hex) Apple, Inc.
3866F0 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E4-FB-5D (hex) HUAWEI TECHNOLOGIES CO.,LTD
E4FB5D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808

CN

E8-68-19 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E86819 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-11-C0 (hex) Aday Technology Inc
0011C0 (base 16) Aday Technology Inc
9F.-3, No. 247, Sec. 1, Taichung Port Rd.,
Taichung City 403
TW

00-05-F1 (hex) Vrcom, Inc.
0005F1 (base 16) Vrcom, Inc.
401, Songam Bldg, 479-1,
Seoul
KR

1C-AB-34 (hex) New H3C Technologies Co., Ltd
1CAB34 (base 16) New H3C Technologies Co., Ltd
466 Changhe
Road, Binjiang District
Hangzhou Zhejiang 310052
CN

3C-78-43 (hex) HUAWEI TECHNOLOGIES CO.,LTD
3C7843 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

5C-09-79 (hex) HUAWEI TECHNOLOGIES CO.,LTD
5C0979 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

30-99-35 (hex) zte corporation
309935 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

0C-72-D9 (hex) zte corporation
0C72D9 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China

shenzhen guangdong 518057
CN

00-30-C8 (hex) GAD LINE, LTD.
0030C8 (base 16) GAD LINE, LTD.
BEIT ROKAR HAR HOTZVIM

IL

00-16-E0 (hex) 3Com Ltd
0016E0 (base 16) 3Com Ltd
Peoplebuilding 2
Hemel Hempstead
Herts HP2 4NW
GB

D8-DE-CE (hex) ISUNG CO.,LTD
D8DECE (base 16) ISUNG CO.,LTD
92, Huimanggongwon-ro
Siheung-si Kyunggido 429-859
KR

80-19-34 (hex) Intel Corporate
801934 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

70-3E-AC (hex) Apple, Inc.
703EAC (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

50-64-2B (hex) XIAOMI Electronics,CO.,LTD
50642B (base 16) XIAOMI Electronics,CO.,LTD
Xiaomi Building, No.68 Qinghe Middle Street
Haidian District Beijing 100085
CN

30-C0-1B (hex) Shenzhen Jingxun Software Telecommunication Technology Co.,Ltd
30C01B (base 16) Shenzhen Jingxun Software Telecommunication Technology Co.,Ltd
3/F,A5 Building Zhiyuan Community No.1001,Xueyuan Road Nanshan District
Shenzhen Guangdong 518055
CN

8C-3B-AD (hex) NETGEAR
8C3BAD (base 16) NETGEAR

350 East Plumeria Drive
San Jose CA 95134
US

64-32-A8
(hex) Intel Corporate
6432A8 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

74-7D-24 (hex) Phicomm (Shanghai) Co., Ltd.
747D24 (base 16) Phicomm (Shanghai) Co., Ltd.
3666 SiXian Rd.,Songjiang District
Shanghai Shanghai 201616
CN

64-CF-D9 (hex) Texas Instruments
64CFD9 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

00-80-09 (hex) JUPITER SYSTEMS, INC.
008009 (base 16) JUPITER SYSTEMS, INC.
3073 TEAGARDEN STREET
SAN LEANDRO CA 94577-5720
US

00-C0-64 (hex) General Datacomm LLC
00C064 (base 16) General Datacomm LLC
353 Christian Street, Suite 4
Oxford CT 06478
US

F4-B5-20 (hex) Biostar Microtech international corp.
F4B520 (base 16) Biostar Microtech international corp.
3F. No. 108-2 Min Chuan Road, Hsin Tien District
New Taipei City Taiwan 231
TW

88-86-C2 (hex) STABILO International GmbH
8886C2 (base
16) STABILO International GmbH
Schwanweg 1
Heroldsberg 90562
DE

88-7A-31 (hex) Velankani Electronics Pvt. Ltd.
887A31 (base 16) Velankani Electronics Pvt. Ltd.
43, Electronics City, Phase 1, Hosur road
Bangalore Karnataka 560100
IN

8C-0F-6F (hex) PEGATRON CORPORATION
8C0F6F (base 16) PEGATRON CORPORATION
5F No. 76, Ligong St., Beitou District
Taipei City Taiwan 112
TW

8C-25-05 (hex) HUAWEI TECHNOLOGIES CO.,LTD
8C2505 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

08-A8-A1 (hex) Cyclotronics Power Concepts, Inc
08A8A1 (base 16) Cyclotronics Power Concepts, Inc
PO Box 37449
Houston TX 77237-7449
US

BC-96-80 (hex) SHENZHEN GONGJIN ELECTRONICS CO.,LT
BC9680 (base 16) SHENZHEN GONGJIN ELECTRONICS CO.,LT
B116,B118,A211-A213,B201-B213,A311-A313,B411-413,BF08-09 Nanshan Medical Instrument Industry Park, Shenzhen
Guangdong 518067
CN

A4-7B-9D (hex) Espressif Inc.
A47B9D (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

7C-2E-DD (hex) Samsung Electronics Co.,Ltd
7C2EDD (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

3C-F7-A4 (hex) Samsung Electronics Co.,Ltd
3CF7A4 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

CC-2F-71 (hex) Intel Corporate
CC2F71 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

B8-F8-BE (hex) BLUECOM
B8F8BE (base 16) BLUECOM
116, Venture-ro, Yeonsu-gu,
Incheon 406-840
KR

2C-5D-93 (hex) Ruckus Wireless
2C5D93 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

00-00-FE (hex) Annapolis Micro Systems, Inc.
0000FE (base 16) Annapolis Micro Systems, Inc.
190
ADMIRAL COCHRANE DRIVE
ANNAPOLIS MD 21401
US

38-E5-95 (hex) SHENZHEN GONGJIN ELECTRONICS CO.,LT
38E595 (base 16) SHENZHEN GONGJIN ELECTRONICS CO.,LT
B116,B118,A211-A213,B201-B213,A311-A313,B411-413,BF08-09 Nanshan Medical Instrument Industry Park,
Shenzhen Guangdong 518067
CN

38-FF-36 (hex) Ruckus Wireless
38FF36 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

84-18-3A (hex) Ruckus Wireless
84183A (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

24-C9-A1 (hex) Ruckus Wireless
24C9A1 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089

US

00-24-82 (hex) Ruckus Wireless
002482 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

10-30-34 (hex) Cara Systems
103034 (base 16) Cara Systems
Ruzgarlibahce Mah. Kavak Sok. No: 31/1 Smart Plaza B Blok Kat: 4
Istanbul Kavacik Beykoz 23805
TR

70-6E-6D
(hex) Cisco Systems, Inc
706E6D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-D0-1F (hex) Senetas Corporation Ltd
00D01F (base 16) Senetas Corporation Ltd
1/11 Queens Road
consolidation consolidation
AU

64-47-E0 (hex) Feitian Technologies Co., Ltd
6447E0 (base 16) Feitian Technologies Co., Ltd
Floor 17, Tower B, Huizhi Mansion, No.9 Xueqing Rd, Haidian District
Beijing 100085
CN

B0-DF-C1 (hex) Tenda Technology Co.,Ltd.Dongguan branch
B0DFC1 (base 16) Tenda Technology Co.,Ltd.Dongguan branch
Room 79,Yuanyi Road,Dalang Town,Dongguan Guangdong 523770
Dongguan Guangdong 523770
CN

9C-6F-52 (hex) zte corporation
9C6F52 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

60-47-62 (hex) Beijing Sensoro Technology Co.,Ltd.
604762 (base 16) Beijing Sensoro Technology Co.,Ltd.
Room

2807, Building 1B, Wangjing SOHO, No10 Wangjing Street, Chaoyang District, Beijing, China
Beijing Beijing 100102 PRC
CN

68-92-34 (hex) Ruckus Wireless
689234 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

50-A7-33 (hex) Ruckus Wireless
50A733 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

E8-6D-65 (hex) AUDIO MOBIL Elektronik GmbH
E86D65 (base 16) AUDIO MOBIL Elektronik GmbH
Audio-Mobil-Straße 5 - 7
Braunau am Inn - Ranshofen 5282
AT

BC-1C-81 (hex) Sichuan iLink Technology Co., Ltd.
BC1C81 (base 16) Sichuan iLink Technology Co., Ltd.
Anzhou,Industrial park,Mianyang,Sichuan
Mianyang 622651
CN

90-0A-1A (hex) Taicang T&W Electronics
900A1A (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

50-6E-92 (hex) Innocent Technology Co., Ltd.
506E92 (base 16) Innocent Technology Co.,
Ltd.
PROSIT AZUMA 3 #201, 1973, NIPPA-CHO, KOHOKU-KU,
YOKOHAMA-SHI KANAGAWA 2230057
JP

30-FE-31 (hex) Nokia
30FE31 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

98-F2-B3 (hex) Hewlett Packard Enterprise

98F2B3 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

E8-E1-E1 (hex) Gemtek Technology Co., Ltd.
E8E1E1 (base 16) Gemtek Technology Co., Ltd.
No.15-1 Zhonghua Road
Hukou Hsinchu 30352
TW

28-07-0D (hex) GUANGZHOU WINSOUND INFORMATION TECHNOLOGY CO.,LTD.
28070D (base 16) GUANGZHOU WINSOUND INFORMATION TECHNOLOGY CO.,LTD.
Building1 NO.13 DABU ROAD HUADU DISTRICT
GUANGZHOU GUANGDONG 510800
CN

B4-4F-96 (hex) Zhejiang Xinzailing Technology co., ltd
B44F96 (base 16) Zhejiang Xinzailing Technology co., ltd
No.1805, Dongliu Road, Binjiang District
Hangzhou Zhejiang 310051
CN

4C-65-A8 (hex) IEEE Registration Authority
4C65A8
(base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

D8-22-F4 (hex) Avnet Silica
D822F4 (base 16) Avnet Silica
16 av carnot
Massy 91349
FR

34-8F-27 (hex) Ruckus Wireless
348F27 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

2C-9E-EC (hex) Jabil Circuit Penang
2C9EEC (base 16) Jabil Circuit Penang
Plot 56 , Hilir Sungai Keluang 1, Bayan Lepas Industrial Park, Phase 4
George Town Penang 11900
MY

C4-57-1F (hex) June Life Inc
C4571F (base 16) June Life Inc
649 Front Street
San Francisco CA 94111
US

88-6A-E3 (hex) Alpha Networks Inc.
886AE3 (base 16) Alpha Networks Inc.
No.8 Li-shing 7th Rd., Science-based Industrial Park, Hsinchu, Taiwan, R.O.C
Hsinchu Taiwan 300
TW

1C-4D-70 (hex) Intel Corporate
1C4D70 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

60-31-3B
(hex) Sunnovo International Limited
60313B (base 16) Sunnovo International Limited
1717 Haitai Building
Beijing Beijing 100083
CN

6C-B2-27 (hex) Sony Video & Sound Products Inc.
6CB227 (base 16) Sony Video & Sound Products Inc.
Sony City Osaki, 2-10-1 Osaki
Shinagawa-ku Tokyo 141-8610
JP

00-0C-AB (hex) Commend International GmbH
000CAB (base 16) Commend International GmbH
Hoelzlstrasse 561
Wals Salzburg A-5071
AT

00-A3-D1 (hex) Cisco Systems, Inc
00A3D1 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1C-FA (hex) Alarm.com
001CFA (base 16) Alarm.com
8150 Leesburg Pike
Vienna VA 22182
US

98-6F-60 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
986F60 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

B0-DA-F9 (hex) ARRIS Group, Inc.
B0DAF9 (base 16) ARRIS
Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

18-35-D1 (hex) ARRIS Group, Inc.
1835D1 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

74-54-27 (hex) SHENZHEN FAST TECHNOLOGIES CO.,LTD
745427 (base 16) SHENZHEN FAST TECHNOLOGIES CO.,LTD
Room 202,Building No.5,Section 30,No.2 of Kefa Road,Nanshan District,Shenzhen,P.R.China
Shenzhen Guangdong 518057
CN

60-72-0B (hex) BLU Products Inc
60720B (base 16) BLU Products Inc
10814 NW 33rd Street
Miami FL 33172
US

30-89-76 (hex) DALIAN LAMBA TECHNOLOGY CO.,LTD
308976 (base 16) DALIAN LAMBA TECHNOLOGY CO.,LTD
Dalian Hi-tech Zone Keypark Room 1201
Dalian Liaoning 116000
CN

2C-26-17 (hex) Oculus VR, LLC
2C2617 (base 16) Oculus VR, LLC
1 Hacker Way
Menlo Park CA 94025
US

FC-06-ED (hex) M2Motive Technology Inc.
FC06ED (base 16) M2Motive Technology Inc.
Room 148, Lane 999, new two

road, Baoshan District
Shanghai Shanghai 200439
CN

34-D9-54 (hex) WiBotic Inc.
34D954 (base 16) WiBotic Inc.
4000 15th Ave NE Lab 225, Fluke Hall, Box 352141
Seattle WA 98195
US

48-57-DD (hex) Facebook Inc
4857DD (base 16) Facebook Inc
1 Hacker Way
Menlo Park 94025
US

48-7D-2E (hex) TP-LINK TECHNOLOGIES CO.,LTD.
487D2E (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

A0-09-4C (hex) CenturyLink
A0094C (base 16) CenturyLink
100 CenturyLink Drive
Monroe 71203
US

F0-74-85 (hex) NGD Systems, Inc.
F07485 (base 16) NGD Systems, Inc.
355 Goddard, Suite 200
Irvine CA 92618
US

48-8D-36 (hex) Arcadyan Corporation
488D36 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

BC-D7-13 (hex) Owl Labs
BCD713
(base 16) Owl Labs
33-1/2 Union Square
Somerville MA 02143
US

F0-D4-F6 (hex) Lars Thrane A/S

F0D4F6 (base 16) Lars Thrane A/S
Stubbeled 2
Vedbæk 2950
DK

F4-A9-97 (hex) CANON INC.
F4A997 (base 16) CANON INC.
30-2 Shimomaruko 3-chome,
Ohta-ku Tokyo 146-8501
JP

FC-4D-8C (hex) SHENZHEN PANTE ELECTRONICS TECHNOLOGY CO., LTD
FC4D8C (base 16) SHENZHEN PANTE ELECTRONICS TECHNOLOGY CO., LTD
Building 5,Hui Mingsheng industrial park,Tongfu Rd,Fu Yong street
Shenzhen Guangdong 518042
CN

64-DF-E9 (hex) ATEME
64DFE9 (base 16) ATEME
6 rue Dewoitine
Vélizy-Villacoublay 78140
FR

B4-39-34 (hex) Pen Generations, Inc.
B43934 (base 16) Pen Generations, Inc.
8th FL., SOLiD Space,
Seongnam-si Gyeonggi-do 463-400
KR

74-26-AC (hex) Cisco Systems, Inc
7426AC (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

10-C6-FC (hex) Garmin
International
10C6FC (base 16) Garmin International
1200 East 151st Street
Olathe KS 66062
US

AC-22-05 (hex) Compal Broadband Networks, Inc.
AC2205 (base 16) Compal Broadband Networks, Inc.
13F., No.1, Taiyuan 1st St.
Zhubei City Hsinchu County 30265
TW

80-A0-36 (hex) Shanghai MXCHIP Information Technology Co., Ltd.
80A036 (base 16) Shanghai MXCHIP Information Technology Co., Ltd.
9th Floor, No. 5 Building, 2145 Jinshajiang Rd., Putuo District
Shanghai 200333
CN

10-58-87 (hex) Fiberhome Telecommunication Technologies Co.,LTD
105887 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

B0-26-28 (hex) Broadcom Limited
B02628 (base 16) Broadcom Limited
5300 California Ave.
irvine CA 92617
US

98-74-DA (hex) Infinix mobility limited
9874DA (base 16) Infinix mobility limited
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE
CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
HongKong HongKong 999077
HK

50-33-8B (hex) Texas Instruments
50338B (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

9C-06-1B (hex) Hangzhou H3C Technologies Co., Limited
9C061B (base 16) Hangzhou H3C Technologies Co., Limited
466 Changhe Road, Binjiang District
Hangzhou Zhejiang, P.R.China 310052
CN

20-F4-52 (hex) Shanghai IUV Software Development Co. Ltd
20F452 (base 16) Shanghai IUV Software Development Co. Ltd
No.18, Lane 1387 Zhangdong Rd, Pudong, Shanghai, P.R.C
shanghai shanghai 201203
CN

14-3F-27 (hex) Noccela Oy
143F27 (base 16) Noccela Oy
Kaarinantie 700
Turku 20540
FI

68-02-35 (hex) Konten Networks Inc.
680235 (base 16) Konten Networks Inc.
7F-1, No.108, Minquan Rd., Xindian Dist.,
New Taipei City Taiwan 231
TW

E8-DE-8E (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
E8DE8E
(base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

D8-C0-6A (hex) Hunantv.com Interactive Entertainment Media Co.,Ltd.
D8C06A (base 16) Hunantv.com Interactive Entertainment Media Co.,Ltd.
Floor 2U, Hunan International Exhibition Center, Kaifu District, Changsha City, Hunan Province, P.R.C.
Changsha Hunan 410000
CN

1C-5A-0B (hex) Tegile Systems
1C5A0B (base 16) Tegile Systems
7999 Gateway Blvd Suite 120
Newark CA 94560
US

04-6E-02 (hex) OpenRTLS Group
046E02 (base 16) OpenRTLS Group
De Nieuwe Ploeg 5
Berlicum 5258 EX
NL

90-0E-83 (hex) Monico Monitoring, Inc.
900E83 (base 16) Monico Monitoring, Inc.
18530 Klein Church Rd
Spring TX 77379
US

60-14-66 (hex) zte corporation
601466 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

AC-20-2E
(hex) Hitron Technologies. Inc
AC202E (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C

Hsin-chu Taiwan 300
TW

D8-D8-66 (hex) SHENZHEN TOZED TECHNOLOGIES CO.,LTD.
D8D866 (base 16) SHENZHEN TOZED TECHNOLOGIES CO.,LTD.
4F/A1,A2,TIANJI BUILDING,TIAN'AN CYBER PARK,FUTIAN
SHENZHEN GUANGDONG 518040
CN

68-54-ED (hex) Alcatel-Lucent
6854ED (base 16) Alcatel-Lucent
777 E. Middlefield Rd
Mountain View CA 94043
US

38-AC-3D (hex) Nephos Inc
38AC3D (base 16) Nephos Inc
2840 Junction Ave. ,
San Jose CA 95134
US

38-F1-35 (hex) SensorTec-Canada
38F135 (base 16) SensorTec-Canada
1Yonge Street, Suite 1801
Toronto ON M5E 1W7
CA

AC-74-09 (hex) Hangzhou H3C Technologies Co., Limited
AC7409 (base 16) Hangzhou H3C Technologies Co., Limited
466 Changhe Road, Binjiang District
Hangzhou Zhejiang, P.R.China 310052
CN

E0-37-BF
(hex) Wistron Neweb Corporation
E037BF (base 16) Wistron Neweb Corporation
No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu R.O.C. 308
TW

E8-13-67 (hex) AIRSOUND Inc.
E81367 (base 16) AIRSOUND Inc.
515-ho,75,Techno-1ro,Yuseoung-gu
Daejeon 34014
KR

F4-03-43 (hex) Hewlett Packard Enterprise
F40343 (base 16) Hewlett Packard Enterprise

8000 Foothills Blvd.
Roseville CA 95747
US

C4-9D-ED (hex) Microsoft Corporation
C49DED (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

98-A4-0E (hex) Snap, Inc.
98A40E (base 16) Snap, Inc.
64 Market Street
Venice CA 90291
US

F0-93-C5 (hex) Garland Technology
F093C5 (base 16) Garland Technology
2130 Oak Bend Lane
Garland TX 75040
US

98-10-E8 (hex) Apple, Inc.
9810E8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C0-D0-12 (hex) Apple, Inc.
C0D012
(base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

BC-A9-20 (hex) Apple, Inc.
BCA920 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-11-92 (hex) Cisco Systems, Inc
001192 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

80-58-F8 (hex) Motorola Mobility LLC, a Lenovo Company

8058F8 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

48-A1-95 (hex) Apple, Inc.
48A195 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F8-03-77 (hex) Apple, Inc.
F80377 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F4-96-34 (hex) Intel Corporate
F49634 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

A4-11-63 (hex) IEEE Registration Authority
A41163 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway
NJ 08554
US

E8-D1-1B (hex) ASKEY COMPUTER CORP
E8D11B (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585
TW

C4-D1-97 (hex) Ventia Utility Services
C4D197 (base 16) Ventia Utility Services
Level 4, Tower 1, 495 Victoria Avenue
Chatswood NSW 2067
AU

70-AF-24 (hex) TP Vision Belgium NV
70AF24 (base 16) TP Vision Belgium NV
Technologiepark Zwijnaarde 19
Gent 9052
BE

0C-5F-35 (hex) Niagara Video Corporation
0C5F35 (base 16) Niagara Video Corporation
5627 Stoneridge Drive, Suite 316
Pleasanton CA 94588
US

7C-E9-7C (hex) ITEL MOBILE LIMITED
7CE97C (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

CC-BE-59 (hex) Calix Inc.
CCBE59 (base 16) Calix Inc.
2777 Orchard Pkwy
San Jose CA 95131
US

54-E1-AD (hex) LCFC(HeFei)
Electronics Technology co., ltd
54E1AD (base 16) LCFC(HeFei) Electronics Technology co., ltd
YunGu Road 3188-1
Hefei Anhui 230000
CN

DC-A4-CA (hex) Apple, Inc.
DCA4CA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

8C-8F-E9 (hex) Apple, Inc.
8C8FE9 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

70-AF-25 (hex) Nishiyama Industry Co.,LTD.
70AF25 (base 16) Nishiyama Industry Co.,LTD.
177-2
Fuji Shizuoka 419-0205
JP

2C-86-D2 (hex) Cisco Systems, Inc
2C86D2 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

B8-F8-83 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
B8F883 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

DC-FE-18 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
DCFE18 (base 16) TP-LINK TECHNOLOGIES
CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

70-4F-57 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
704F57 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

00-19-12 (hex) Welcat Inc
001912 (base 16) Welcat Inc
East Tower 6F, Shinagawa Seaside, 4-12-8, Higashi Shinagawa, Shinagawa Section
Tokyo 140-0002
JP

98-00-C1 (hex) GuangZhou CREATOR Technology Co.,Ltd.(CHINA)
9800C1 (base 16) GuangZhou CREATOR Technology Co.,Ltd.(CHINA)
Level 3,Blg 6,No 9 Keji Yuan,LanYusi St,
GuangZhou GuangDong 510730
CN

98-D3-D2 (hex) MEKRA Lang GmbH & Co. KG
98D3D2 (base 16) MEKRA Lang GmbH & Co. KG
Buchheimerstr. 4
Ergersheim 91465
DE

90-3D-6B (hex) Zicon Technology Corp.
903D6B (base
16) Zicon Technology Corp.
15F., No.688-2, Zhongzheng Rd., Zhonghe City, Taipei County 235
Taipei 23586
TW

B0-C4-6C (hex) Senseit
B0C46C (base 16) Senseit
Suschevsky val 16 str. 4

Moscow Russian Federation 127018
RU

8C-78-D7 (hex) SHENZHEN FAST TECHNOLOGIES CO.,LTD
8C78D7 (base 16) SHENZHEN FAST TECHNOLOGIES CO.,LTD
Room 202,Building No.5,Section 30,No.2 of Kefa Road,Nanshan District,Shenzhen,P.R.China
Shenzhen Guangdong 518057
CN

B8-EA-AA (hex) ICG NETWORKS CO.,ltd
B8EAAA (base 16) ICG NETWORKS CO.,ltd
Room 2030Block BYamei ParkHaidian District
BEIJING 100010
CN

00-02-A1 (hex) World Wide Packets
0002A1 (base 16) World Wide Packets
PO Box 14645
Spokane WA 99214
US

00-E0-22 (hex) Analog Devices, Inc.
00E022 (base 16) Analog Devices, Inc.
Three Technology Way
Norwood MA 02062-2666
US

F8-A3-4F (hex) zte corporation
F8A34F (base 16) zte corporation
12/F.,zte
R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

C8-73-24 (hex) Sow Cheng Technology Co. Ltd.
C87324 (base 16) Sow Cheng Technology Co. Ltd.
No.26, Ln. 181, Xinsheng W. Rd., Dali Dist
Taichung 412
TW

4C-4E-03 (hex) TCT mobile ltd
4C4E03 (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

50-E6-66 (hex) Shenzhen Techtion Electronics Co., Ltd.
50E666 (base 16) Shenzhen Techtion Electronics Co., Ltd.

Floor 2, C2 Building, Huafeng Industrial Park, Hangcheng Avenue, Gushu, Xixiang, Baoan
Shenzhen Guangdong 518102
CN

B0-40-89 (hex) Senient Systems LTD
B04089 (base 16) Senient Systems LTD
152 Morrison St
Edinburgh Other (Non US) EH3 8EB
GB

54-25-EA (hex) HUAWEI TECHNOLOGIES CO.,LTD
5425EA (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology
Park
Dongguan 523808
CN

C8-94-BB (hex) HUAWEI TECHNOLOGIES CO.,LTD
C894BB (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

10-B1-F8 (hex) HUAWEI TECHNOLOGIES CO.,LTD
10B1F8 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

08-9E-08 (hex) Google, Inc.
089E08 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

3C-7F-6F (hex) Telechips, Inc.
3C7F6F (base 16) Telechips, Inc.
19F~23F,Luther Bldg.42, Olympic-ro 35da-gil, Songpa-gu,
Seoul Seoul 05510
KR

28-FE-CD (hex) Lemobile Information Technology (Beijing) Co., Ltd.
28FECD (base 16) Lemobile Information Technology (Beijing) Co., Ltd.
5/F LeEco Building, 105 Yaojiayuan Road, Chaoyang District
Beijing Beijing 100025
CN

00-21-0D (hex) SAMSIN INNOTEC

00210D
(base 16) SAMSIN INNOTEC
SARIYUNDONG ILSANDONG-GU
GOYANG KYUNGGI 411530
KR

5C-BA-37 (hex) Microsoft Corporation
5CBA37 (base 16) Microsoft Corporation
31807 - 25th Ave SW
Federal Way 98023
US

00-C0-C6 (hex) PERSONAL MEDIA CORP.
00C0C6 (base 16) PERSONAL MEDIA CORP.
1-7-7 MY BLDG. HIRATSUKA

JP

B8-EC-A3 (hex) Zyxel Communications Corporation
B8ECA3 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

54-19-C8 (hex) vivo Mobile Communication Co., Ltd.
5419C8 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

00-02-77 (hex) Cash Systemes Industrie
000277 (base 16) Cash Systemes Industrie
Technoparc Epsilon

FR

00-16-D3 (hex) Wistron Corporation
0016D3 (base 16) Wistron Corporation
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,
Taipei
Hsien 221
TW

00-1F-16 (hex) Wistron Corporation
001F16 (base 16) Wistron Corporation
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,
Taipei Hsien 221
TW

00-26-2D (hex) Wistron Corporation
00262D (base 16) Wistron Corporation
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,
Taipei Hsien 221
TW

04-95-E6 (hex) Tenda Technology Co.,Ltd.Dongguan branch
0495E6 (base 16) Tenda Technology Co.,Ltd.Dongguan branch
Room 79,Yuanyi Road,Dalang Town,Dongguan Guangdong 523770
Dongguan Guangdong 523770
CN

00-60-8B (hex) ConferTech International
00608B (base 16) ConferTech International
12110 N. PECOS STREET
WESTMINSTER CO 80234-2074
US

70-2D-84 (hex) i4C Innovations
702D84 (base 16) i4C Innovations
3800 Concorde Parkway, Suite 400
Chantilly VA 20151
US

C0-D9-F7 (hex) ShanDong Domor Intelligent S&T CO.,Ltd
C0D9F7 (base 16) ShanDong Domor Intelligent S&T CO.,Ltd
Jining high-tech zone
base of production,education & research
Jining Shandong 272000
CN

B0-B9-8A (hex) NETGEAR
B0B98A (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

80-5A-04 (hex) LG Electronics (Mobile Communications)
805A04 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

2C-20-0B (hex) Apple, Inc.
2C200B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

88-66-A5 (hex) Apple, Inc.
8866A5 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

90-17-11 (hex) Hagenuk Marinekommunikation GmbH
901711 (base 16) Hagenuk Marinekommunikation GmbH
Hamburger Chaussee 25
Flintbek 24220
DE

00-10-DE (hex) INTERNATIONAL DATACASTING CORPORATION
0010DE (base 16) INTERNATIONAL DATACASTING CORPORATION
2680 QUEENSVIEW DRIVE
OTTAWA, ONTARIO K2B 8H6
CA

8C-A5-A1 (hex) Oregano Systems - Design &
Consulting GmbH
8CA5A1 (base 16) Oregano Systems - Design & Consulting GmbH
Franzosengraben 8
Vienna 1030
AT

CC-A2-19 (hex) SHENZHEN ALONG INVESTMENT CO.,LTD
CCA219 (base 16) SHENZHEN ALONG INVESTMENT CO.,LTD
Room 1301,13F,Zhenye international Business Center,No.3101-90,Qianhai Road,Nanshan District
Shenzhen Guangdong Province 518052
CN

4C-1A-3A (hex) PRIMA Research And Production Enterprise Ltd.
4C1A3A (base 16) PRIMA Research And Production Enterprise Ltd.
63, Svobody st.
Nizhny Novgorod 603003
RU

9C-AE-D3 (hex) Seiko Epson Corporation
9CAED3 (base 16) Seiko Epson Corporation
80 Harashinden
Shiojiri-shi Nagano-ken 399-0785
JP

70-7C-69 (hex) Avaya Inc
707C69 (base 16) Avaya Inc
360 Mt Kemble Ave

Morristown NJ 07960
US

50-0B-91 (hex) IEEE Registration Authority
500B91 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

F8-46-1C
(hex) Sony Interactive Entertainment Inc.
F8461C (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

70-4D-7B (hex) ASUSTek COMPUTER INC.
704D7B (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

38-BC-01 (hex) HUAWEI TECHNOLOGIES CO.,LTD
38BC01 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

34-1E-6B (hex) HUAWEI TECHNOLOGIES CO.,LTD
341E6B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

88-66-39 (hex) HUAWEI TECHNOLOGIES CO.,LTD
886639 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-00-48 (hex) Seiko Epson Corporation
000048 (base 16) Seiko Epson Corporation
80 HIROOKA SHIOJIRI-CITY
japan
JAPAN 399-07
JP

B0-E8-92 (hex) Seiko Epson Corporation

B0E892 (base 16) Seiko Epson Corporation
3-3-5 OWA
SUWA-SHI NAGANO-KEN 392-8502
JP

AC-18-26 (hex) Seiko Epson Corporation
AC1826 (base 16) Seiko Epson Corporation
3-3-5 OWA
SUWA-SHI NAGANO-KEN 392-8502
JP

A4-EE-57 (hex) Seiko Epson Corporation
A4EE57 (base 16) Seiko Epson Corporation
3-3-5 OWA
SUWA-SHI NAGANO-KEN 392-8502
JP

E4-B0-05 (hex) Beijing IQIYI Science & Technology Co., Ltd.
E4B005 (base 16) Beijing IQIYI Science & Technology Co., Ltd.
Room 1101, Floor 11, Capital Development Tower, No.2 Haidian North 1st Street,Haidian District,
Beijing 100080
CN

AC-C1-EE (hex) Xiaomi Communications Co Ltd
ACC1EE (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

00-14-38 (hex) Hewlett Packard Enterprise
001438
(base 16) Hewlett Packard Enterprise
20555 State Highway 249
Houston TX 77070
US

BC-83-85 (hex) Microsoft Corporation
BC8385 (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

B0-52-16 (hex) Hon Hai Precision Ind. Co.,Ltd.
B05216 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

14-A7-8B (hex) Zhejiang Dahua Technology Co., Ltd.
14A78B (base 16) Zhejiang Dahua Technology Co., Ltd.
No.1199, Waterfront Road
Hangzhou Zhejiang 310053
CN

4C-26-E7 (hex) Welgate Co., Ltd.
4C26E7 (base 16) Welgate Co., Ltd.
19F, Geopyeong Bldg. 129
Seoul Seoul 135726
KR

00-60-41 (hex) Yokogawa Digital Computer Corporation
006041 (base 16) Yokogawa Digital Computer Corporation
Shinjuku MIDWEST Bldg.4-30-3
Yoyogi Shibuya-ku, Tokyo 151-0053
JP

18-F8-7A (hex) i3 International Inc.
18F87A (base 16) i3
International Inc.
780 Birchmount Road
Scarborough Ontario M1K5H4
CA

A0-E4-CB (hex) Zyxel Communications Corporation
A0E4CB (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

28-4E-D7 (hex) OutSmart Power Systems, Inc.
284ED7 (base 16) OutSmart Power Systems, Inc.
11 Mercer Rd
Natick 23 01760

64-A6-8F (hex) Zhongshan Readboy Electronics Co.,Ltd
64A68F (base 16) Zhongshan Readboy Electronics Co.,Ltd
Changmingshui Industrial Park Wuguishan Zhongshan City,Guangdong Province
Zhongshan Guangdong 528400
CN

2C-59-8A (hex) LG Electronics (Mobile Communications)
2C598A (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

A0-B8-F8 (hex) Amgen U.S.A. Inc.
A0B8F8 (base 16) Amgen U.S.A. Inc.
1 Amgen Center Drive
Thousand Oaks CA 91320
US

88-44-77 (hex) HUAWEI TECHNOLOGIES
CO.,LTD
884477 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

14-9D-09 (hex) HUAWEI TECHNOLOGIES CO.,LTD
149D09 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

68-69-75 (hex) Angler Labs Inc
686975 (base 16) Angler Labs Inc
940 Pearce Mill Rd.
Wexford PA 15090
US

4C-11-BF (hex) Zhejiang Dahua Technology Co., Ltd.
4C11BF (base 16) Zhejiang Dahua Technology Co., Ltd.
NO.1199 Bin An Road,Binjiang District,HangZhou,P.R.China
HangZhou ZheJiang 310053
CN

00-42-5A (hex) Cisco Systems, Inc
00425A (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

9C-FB-D5 (hex) vivo Mobile Communication Co., Ltd.
9CFBD5 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong,
523860
CN

18-F7-6B (hex) Zhejiang Winsight Technology CO.,LTD
18F76B (base 16) Zhejiang Winsight Technology CO.,LTD
No.3339 Linggongtang RoadNanHu District

Jiaxing Zhejiang 314000
CN

5C-E3-0E (hex) ARRIS Group, Inc.
5CE30E (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

C8-1B-5C (hex) BCTech
C81B5C (base 16) BCTech
14 Building, Tiandeng road 259#
shanghai xuhui district, shanghai 200237
CN

E0-7C-13 (hex) zte corporation
E07C13 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

F4-1F-88 (hex) zte corporation
F41F88 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

58-31-12 (hex) DRUST
583112 (base 16) DRUST
8 rue fabre d'églantine
Paris 75012
FR

9C-83-BF (hex) PRO-VISION, Inc.
9C83BF (base 16) PRO-VISION,
Inc.
8625-B Byron Commerce Dr. SW
Byron Center MI 49315
US

78-EF-4C (hex) Unetconvergence Co., Ltd.
78EF4C (base 16) Unetconvergence Co., Ltd.
101-511, Digital Empire2, 486, Shin-dong, Youngtong-gu
Suwon Kyonggi-do 443-390
KR

20-D2-5F (hex) SmartCap Technologies
20D25F (base 16) SmartCap Technologies

L1 18 Finchley Street
Milton Queensland 4064
AU

E4-7D-BD (hex) Samsung Electronics Co.,Ltd
E47DBD (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

48-D3-43 (hex) ARRIS Group, Inc.
48D343 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-C0-5A (hex) SEMAPHORE COMMUNICATIONS CORP.
00C05A (base 16) SEMAPHORE COMMUNICATIONS CORP.
217 HUMBOLDT COURT
SUNNYVALE CA 94089-1300
US

00-07-F9 (hex) Sensaphone
0007F9 (base 16) Sensaphone
901 Tryens Road
Aston PA 19014
US

00-1C-B3
(hex) Apple, Inc.
001CB3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

1C-C0-E1 (hex) IEEE Registration Authority
1CC0E1 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

24-92-0E (hex) Samsung Electronics Co.,Ltd
24920E (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

FC-42-03 (hex) Samsung Electronics Co.,Ltd

FC4203 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A0-10-81 (hex) Samsung Electronics Co.,Ltd
A01081 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A0-4E-01 (hex) CENTRAL ENGINEERING co.,ltd.
A04E01 (base 16) CENTRAL ENGINEERING co.,ltd.
2-3-19 shinyokohama kouhoku-ku
yokohama-shi kanagawa 222-0033
JP

28-CA-09 (hex) ThyssenKrupp Elevators (Shanghai) Co.,Ltd
28CA09 (base 16) ThyssenKrupp
Elevators (Shanghai) Co.,Ltd
No. 2, Xunye Rd, Sheshan Subarea Songjiang Industrial Area
Shanghai Shanghai 201602
CN

00-50-93 (hex) BOEING
005093 (base 16) BOEING
3370 Miraloma Avenue
Anaheim CA 92803-3105
US

28-EE-52 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
28EE52 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

00-1A-39 (hex) Merten GmbH&CoKG
001A39 (base 16) Merten GmbH&CoKG
Fritz-Kotz-Str. 8
Wiehl NRW 51674
DE

3C-8B-CD (hex) Alcatel-Lucent Shanghai Bell Co., Ltd
3C8BCD (base 16) Alcatel-Lucent Shanghai Bell Co., Ltd
No. 389, Ningqiao Road, Pudong Jinqiao
Shanghai 201206
CN

4C-F9-5D (hex) HUAWEI TECHNOLOGIES CO.,LTD
4CF95D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

84-21-F1
(hex) HUAWEI TECHNOLOGIES CO.,LTD
8421F1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

70-79-90 (hex) HUAWEI TECHNOLOGIES CO.,LTD
707990 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

14-ED-BB (hex) 2Wire Inc
14EDBB (base 16) 2Wire Inc
1764 Automation Parkway
San Jose CA 95131
US

18-E2-9F (hex) vivo Mobile Communication Co., Ltd.
18E29F (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

00-B0-E1 (hex) Cisco Systems, Inc
00B0E1 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E4-3E-D7 (hex) Arcadyan Corporation
E43ED7 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

F0-79-60 (hex) Apple,
Inc.
F07960 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

A0-D7-95 (hex) Apple, Inc.
A0D795 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-90-E7 (hex) HORSCH ELEKTRONIK AG
0090E7 (base 16) HORSCH ELEKTRONIK AG
HAAGERSTRASSE
CH-9473 GAMS
CH

90-5C-44 (hex) Compal Broadband Networks, Inc.
905C44 (base 16) Compal Broadband Networks, Inc.
13F., No.1, Taiyuan 1st St.
Zhubei City Hsinchu County 30265
TW

84-25-19 (hex) Samsung Electronics
842519 (base 16) Samsung Electronics
129, Samsung-rom Yeongtong-gu
Suwon-si Gyeonggi-do 16677
KR

5C-24-43 (hex) O-Sung Telecom Co., Ltd.
5C2443 (base 16) O-Sung Telecom Co., Ltd.
43-9 Pyeongdongro 803-gil , Gwangsan-Gu
Gwangju 54611
KR

20-47-ED (hex) SKY UK LIMITED
2047ED (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

74-8A-69 (hex) Korea Image Technology
Co., Ltd
748A69 (base 16) Korea Image Technology Co., Ltd
125, beolmal road, dongan gu,
anyang gyeonggi 14056
KR

54-54-CF (hex) PROBEDIGITAL CO.,LTD
5454CF (base 16) PROBEDIGITAL CO.,LTD
#107 Hyundai I-Valley, 31, Galmachi-ro 244beon-gil, Jungwon-gu

Seongnam-si Gyeonggi-do 13212
KR

F8-63-3F (hex) Intel Corporate
F8633F (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

08-86-20 (hex) TECNO MOBILE LIMITED
088620 (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

00-25-66 (hex) Samsung Electronics Co.,Ltd
002566 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

98-13-33 (hex) zte corporation
981333 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen
guangdong 518057
CN

64-74-F6 (hex) Shooter Detection Systems
6474F6 (base 16) Shooter Detection Systems
300 Newburyport Turnpike
Rowley MA 01969
US

00-F2-2C (hex) Shanghai B-star Technology Co.,Ltd.
00F22C (base 16) Shanghai B-star Technology Co.,Ltd.
4Floor NO.1158 Xiehe Road,Changning District ,shanghai ,China 200335
Shanghai 200335
CN

00-05-EE (hex) Vanderbilt International (SWE) AB
0005EE (base 16) Vanderbilt International (SWE) AB
Englundavaegen 7
Solna SE-171 41
SE

04-18-0F (hex) Samsung Electronics Co.,Ltd

04180F (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

20-13-E0 (hex) Samsung Electronics Co.,Ltd
2013E0 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D0-DB-32 (hex) Nokia Corporation
D0DB32 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

E8-00-36
(hex) Befs co,. ltd
E80036 (base 16) Befs co,. ltd
C-#403, 242 Pangyo-ro, Bundang-gu
Seongnam-si Gyeonggi-do 13487
KR

C0-9F-05 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
C09F05 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

F4-3C-96 (hex) Ericsson AB
F43C96 (base 16) Ericsson AB
Torshamnsgatan 36
Stockholm SE-164 80
SE

F8-9E-28 (hex) Cisco Meraki
F89E28 (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco null 94158
US

38-84-79 (hex) Cisco Meraki
388479 (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco null 94158
US

5C-49-79 (hex) AVM Audiovisuelles Marketing und Computersysteme GmbH
5C4979 (base 16) AVM Audiovisuelles Marketing und Computersysteme GmbH
Alt-Moabit 95
Berlin Berlin 10559
DE

C4-41-1E (hex) Belkin International Inc.
C4411E
(base 16) Belkin International Inc.
12045 East Waterfront Drive
Playa Vista null 90094
US

24-F5-A2 (hex) Belkin International Inc.
24F5A2 (base 16) Belkin International Inc.
12045 East Waterfront Drive
Playa Vista null 90094
US

E0-CB-BC (hex) Cisco Meraki
E0CBBC (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco null 94158
US

68-3A-1E (hex) Cisco Meraki
683A1E (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco null 94158
US

C0-F9-45 (hex) Toshiba Toko Meter Systems Co., LTD.
C0F945 (base 16) Toshiba Toko Meter Systems Co., LTD.
3484, Sakuragaoka, Kurohama
Hasuda-shi Saitama 349-0192
JP

70-F8-E7 (hex) IEEE Registration Authority
70F8E7 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

D4-2C-44 (hex) Cisco Systems, Inc
D42C44 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San

Jose CA 94568
US

B8-8E-DF (hex) Zencheer Communication Technology Co., Ltd.
B88EDF (base 16) Zencheer Communication Technology Co., Ltd.
Room 2706, BLDG#7, Changjiang Building, NO.12, Changjiang Road, New District
Wuxi Jiangsu 214028
CN

DC-71-44 (hex) SAMSUNG ELECTRO MECHANICS CO., LTD.
DC7144 (base 16) SAMSUNG ELECTRO MECHANICS CO., LTD.
314, Maetan3-Dong, Yeongtong-Gu
Suwon 443-743
US

00-24-85 (hex) ConteXtream Ltd
002485 (base 16) ConteXtream Ltd
94 Em-HaMoshavot
Petach-Tikva 49527
IL

28-FC-F6 (hex) Shenzhen Xin KingBrand enterprises Co.,Ltd
28FCF6 (base 16) Shenzhen Xin KingBrand enterprises Co.,Ltd
Kingbrand Industrial Zone,Nanpu Road,Shang liao ling pi keng,Shajing Town
Shenzhen Guangdong 518000
CN

68-94-23 (hex) Hon Hai Precision Ind. Co.,Ltd.
689423 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

84-4B-F5
(hex) Hon Hai Precision Ind. Co.,Ltd.
844BF5 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

08-ED-B9 (hex) Hon Hai Precision Ind. Co.,Ltd.
08EDB9 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

3C-77-E6 (hex) Hon Hai Precision Ind. Co.,Ltd.
3C77E6 (base 16) Hon Hai Precision Ind. Co.,Ltd.

Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

70-18-8B (hex) Hon Hai Precision Ind. Co.,Ltd.
70188B (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

98-0C-82 (hex) SAMSUNG ELECTRO MECHANICS CO., LTD.
980C82 (base 16) SAMSUNG ELECTRO MECHANICS CO., LTD.
Metan Dong 314, Youngtong Gu
Suwon Kyung-gi Do. 443-743
KR

A0-0B-BA (hex) SAMSUNG ELECTRO MECHANICS CO., LTD.
A00BBA
(base 16) SAMSUNG ELECTRO MECHANICS CO., LTD.
Suwon-Si, Gyeonggi_Do, Korea
Suwon Gyeonggi_Do 443-743
KR

60-6B-BD (hex) Samsung Electronics Co.,Ltd
606BBD (base 16) Samsung Electronics Co.,Ltd
416, Maetan-3dong, Yeongtong-gu
Suwon-si Gyeonggi-do 443742
KR

00-21-4C (hex) Samsung Electronics Co.,Ltd
00214C (base 16) Samsung Electronics Co.,Ltd
416, METAN-3DONG,
SUWON KYUNGKI-DO 442-742
KR

00-16-6B (hex) Samsung Electronics Co.,Ltd
00166B (base 16) Samsung Electronics Co.,Ltd
416,Maetan-3Dong,Yeongtong-Gu
Suwon-City Kyeonggi-Do 443-742
KR

00-1F-58 (hex) EMH Energiemesstechnik GmbH
001F58 (base 16) EMH Energiemesstechnik GmbH
Vor dem Hassel 2
Brackel 21438
DE

00-16-DF (hex) Lundinova AB

0016DF (base 16) Lundinova AB
Dalbyvägen 1
Lund Skåne SE-224 60
US

00-1D-0C (hex) MobileCompia
001D0C (base 16) MobileCompia
Dongwon Bldg, 725-30, Yeoksam-dong, Gangnam-gu,
Seoul
135-080
KR

84-3D-C6 (hex) Cisco Systems, Inc
843DC6 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-00-F0 (hex) Samsung Electronics Co.,Ltd
0000F0 (base 16) Samsung Electronics Co.,Ltd
416, MAETAN-3DONG, PALDAL-GU
kwon 442-742
KR

8C-C8-CD (hex) Samsung Electronics Co.,Ltd
8CC8CD (base 16) Samsung Electronics Co.,Ltd
416, Maetan-3dong, Yeongtong-gu
Suwon Gyeonggi-do 443742
KR

80-18-A7 (hex) Samsung Electronics Co.,Ltd
8018A7 (base 16) Samsung Electronics Co.,Ltd
416, Maetan 3dong, Yeongtong-Gu
Suwon Gyeonggi-Do 443742
KR

5C-6D-20 (hex) Hon Hai Precision Ind. Co.,Ltd.
5C6D20 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

5C-AC-4C (hex) Hon Hai Precision Ind. Co.,Ltd.
5CAC4C (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st
Road
Chongqing Chongqing 401332
CN

34-E7-1C (hex) Shenzhen YOUHUA Technology Co., Ltd
34E71C (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

F4-7B-5E (hex) Samsung Electronics Co.,Ltd
F47B5E (base 16) Samsung Electronics Co.,Ltd
416, Maetan 3dong, Yeongtong-Gu
Suwon Gyeonggi-Do 443742
KR

08-C6-B3 (hex) QTECH LLC
08C6B3 (base 16) QTECH LLC
Novozavodskaya st. 18 build. 1
Moscow Moscow region 121309
RU

00-18-AF (hex) Samsung Electronics Co.,Ltd
0018AF (base 16) Samsung Electronics Co.,Ltd
#94-1
Gumi-City Gyeong-Buk 730-350
KR

00-1E-E1 (hex) Samsung Electronics Co.,Ltd
001EE1 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D0-25-44 (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
D02544 (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T.
Bangsamak
Bangpakong Chachoengsao 24180
TH

00-5A-13 (hex) HUAWEI TECHNOLOGIES CO.,LTD
005A13 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

24-DB-ED (hex) Samsung Electronics Co.,Ltd
24DBED (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350

KR

C4-50-06 (hex) Samsung Electronics Co.,Ltd
C45006 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

88-32-9B (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
88329B (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T. Bangsamak
Bangpakong 24180
US

14-49-E0 (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
1449E0 (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T. Bangsamak
Bangpakong 24180
US

D4-87-D8 (hex) Samsung Electronics Co.,Ltd
D487D8 (base 16) Samsung Electronics
Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

18-46-17 (hex) Samsung Electronics Co.,Ltd
184617 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

38-0A-94 (hex) Samsung Electronics Co.,Ltd
380A94 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D0-DF-C7 (hex) Samsung Electronics Co.,Ltd
D0DFC7 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D0-C1-B1 (hex) Samsung Electronics Co.,Ltd
D0C1B1 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong

Gumi Gyeongbuk 730-350
KR

20-D3-90 (hex) Samsung Electronics Co.,Ltd
20D390 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

94-01-C2 (hex) Samsung Electronics Co.,Ltd
9401C2 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

50-FC-9F
(hex) Samsung Electronics Co.,Ltd
50FC9F (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

38-0B-40 (hex) Samsung Electronics Co.,Ltd
380B40 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

70-F9-27 (hex) Samsung Electronics Co.,Ltd
70F927 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F0-72-8C (hex) Samsung Electronics Co.,Ltd
F0728C (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

34-AA-8B (hex) Samsung Electronics Co.,Ltd
34AA8B (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

BC-44-86 (hex) Samsung Electronics Co.,Ltd
BC4486 (base 16) Samsung Electronics Co.,Ltd

#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A8-F2-74 (hex) Samsung Electronics Co.,Ltd
A8F274 (base 16) Samsung
Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

88-6A-B1 (hex) vivo Mobile Communication Co., Ltd.
886AB1 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

6C-1E-90 (hex) Hansol Technics Co., Ltd.
6C1E90 (base 16) Hansol Technics Co., Ltd.
55, Hansam-ro, Deoksan-Myeon
Jincheon-Gun Chungbuk 27850
KR

00-17-7E (hex) Meshcom Technologies Inc.
00177E (base 16) Meshcom Technologies Inc.
Meritullinkatu 1 C
Helsinki 00170
FI

98-F0-58 (hex) Lynxspring, Incl.
98F058 (base 16) Lynxspring, Incl.
1210 NE Windsor Drive
Lees Summit MO 64086
US

C4-F5-A5 (hex) Kumalift Co., Ltd.
C4F5A5 (base 16) Kumalift Co., Ltd.
7-2-6 Saito-Asagi
Ibaraki Osaka 567-0085
JP

A0-04-60 (hex) NETGEAR
A00460 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

98-84-E3 (hex) Texas Instruments

9884E3
(base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

38-D2-69 (hex) Texas Instruments
38D269 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

C8-FD-19 (hex) Texas Instruments
C8FD19 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

50-8C-B1 (hex) Texas Instruments
508CB1 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

B8-FF-61 (hex) Apple, Inc.
B8FF61 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

94-61-24 (hex) Pason Systems
946124 (base 16) Pason Systems
6130 - 3rd Street S.E.
Calgary Alberta T2H1K4
CA

68-C4-4D (hex) Motorola Mobility LLC, a Lenovo Company
68C44D (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

C8-DE-51 (hex) IntegraOptics
C8DE51 (base 16) IntegraOptics
745 Albany Shaker Rd
Latham
NY 12110
US

70-B1-4E (hex) ARRIS Group, Inc.
70B14E (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

30-44-87 (hex) Hefei Radio Communication Technology Co., Ltd
304487 (base 16) Hefei Radio Communication Technology Co., Ltd
No.108, YinXing Road, High-tech Development Zone
Hefei Anhui 230088
CN

2C-9D-1E (hex) HUAWEI TECHNOLOGIES CO.,LTD
2C9D1E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

94-3D-C9 (hex) Asahi Net, Inc.
943DC9 (base 16) Asahi Net, Inc.
Ginza 4-12-15 Chuo-ku
Tokyo 104-0061
JP

00-81-C4 (hex) Cisco Systems, Inc
0081C4 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

44-04-44 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
440444 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG
GUAN GUANG DONG 523860
CN

40-0D-10 (hex) ARRIS Group, Inc.
400D10 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

58-E8-76 (hex) IEEE Registration Authority
58E876 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554

US

D0-37-42 (hex) Yulong Computer Telecommunication Scientific (Shenzhen) Co.,Ltd
D03742 (base 16) Yulong Computer Telecommunication Scientific (Shenzhen) Co.,Ltd
Coolpad Information Harbor, 2nd Mengxi road, Hi-Tech Industrial Park(North), Nanshan District
Shenzhen Guangdong 518057
CN

00-17-65 (hex) Nortel Networks
001765 (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-15-E8 (hex) Nortel Networks
0015E8 (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-0F-06 (hex) Nortel Networks
000F06 (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

F8-E6-1A
(hex) Samsung Electronics Co.,Ltd
F8E61A (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

84-B5-41 (hex) Samsung Electronics Co.,Ltd
84B541 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-6F-64 (hex) Samsung Electronics Co.,Ltd
006F64 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

DC-66-72 (hex) Samsung Electronics Co.,Ltd
DC6672 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong

Gumi Gyeongbuk 730-350
KR

EC-8E-B5 (hex) Hewlett Packard
EC8EB5 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston TX 77070
US

70-AF-6A (hex) SHENZHEN FENGLIAN TECHNOLOGY CO., LTD.
70AF6A (base 16) SHENZHEN FENGLIAN TECHNOLOGY CO., LTD.
ORIENTAL CYBERPORT, HIGHTECH 6 ROAD
SHENZHEN GUANGDONG 518057
CN

C4-04-7B (hex) Shenzhen YOUHUA Technology
Co., Ltd
C4047B (base 16) Shenzhen YOUHUA Technology Co., Ltd
Shenzhen University-town Business Park,Lishan Road,Taoyuan Street
Shenzhen Guangdong 518055
CN

20-F4-1B (hex) Shenzhen Bilian electronic CO.,LTD
20F41B (base 16) Shenzhen Bilian electronic CO.,LTD
NO 268, Fuqian Rd,Jutang Community,Guanlan town,
ShenZhen Guangdong 518110
CN

00-23-3E (hex) Alcatel-Lucent IPD
00233E (base 16) Alcatel-Lucent IPD
701 E. Middlefield Rd.
Mountain View CA 94043
US

6C-BE-E9 (hex) Alcatel-Lucent IPD
6CBEE9 (base 16) Alcatel-Lucent IPD
701 E. Middlefield Rd.
Mountain View CA 94043
US

00-16-4D (hex) Alcatel-Lucent IPD
00164D (base 16) Alcatel-Lucent IPD
701 E. Middlefield RD.
Mountain View CA 94043
US

00-1A-F0 (hex) Alcatel-Lucent IPD
001AF0 (base 16) Alcatel-Lucent IPD

701 E. Middlefield Rd.
Mountain View CA 94943
US

38-52-1A (hex) Nokia
38521A (base 16) Nokia
600
March Road
Kanata Ontario K2K 2E6
CA

00-1E-40 (hex) Shanghai DareGlobal Technologies Co.,Ltd
001E40 (base 16) Shanghai DareGlobal Technologies Co.,Ltd
22F, lnfo Tech Building, NO.1555 Kongjiang Road,
Shanghai 200092
CN

20-F5-43 (hex) Hui Zhou Gaoshengda Technology Co.,LTD
20F543 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.75,Zhongkai High-Tech Development District,Huizhou
Hui Zhou Guangdong 516006
CN

E0-DD-C0 (hex) vivo Mobile Communication Co., Ltd.
E0DDC0 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

94-D7-23 (hex) Shanghai DareGlobal Technologies Co.,Ltd
94D723 (base 16) Shanghai DareGlobal Technologies Co.,Ltd
22F Info-Tech Building
Shanghai 200092
CN

FC-FA-F7 (hex) Shanghai Baud Data Communication Co.,Ltd.
FCFAF7 (base 16) Shanghai Baud Data Communication Co.,Ltd.
NO.123 JULI RD
SHANGHAI
201203
CN

D8-26-B9 (hex) Guangdong Coagent Electronics S&T Co.,Ltd.
D826B9 (base 16) Guangdong Coagent Electronics S&T Co.,Ltd.
Section C,Xi Nan Industrial Zone Sanshui
Foshan Guangdong 528133
CN

AC-9C-E4 (hex) Alcatel-Lucent Shanghai Bell Co., Ltd
AC9CE4 (base 16) Alcatel-Lucent Shanghai Bell Co., Ltd
No. 389, Ningqiao Road, Pudong Jinqiao
Shanghai 201206
CN

00-15-9B (hex) Nortel Networks
00159B (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-15-40 (hex) Nortel Networks
001540 (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-1E-CA (hex) Nortel Networks
001ECA (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-13-0A (hex) Nortel Networks
00130A (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-1F-0A (hex) Nortel Networks
001F0A (base 16) Nortel
Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

6C-A8-58 (hex) Fiberhome Telecommunication Technologies Co.,LTD
6CA858 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

A8-4E-3F (hex) Hitron Technologies. Inc
A84E3F (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

08-D8-33 (hex) Shenzhen RF Technology Co., Ltd
08D833 (base 16) Shenzhen RF Technology Co., Ltd
5/F,Building 4 ,Baokun science and Technology Industrial Park,Dalang Street,Baoan District,Shenzhen,China
Shenzhen Guangdong 518109
CN

A4-60-32 (hex) MRV Communications (Networks) LTD
A46032 (base 16) MRV Communications (Networks) LTD
Hayetzira 6
Yokneam Yokneam 20692
IL

40-66-7A (hex) mediola - connected living AG
40667A (base 16) mediola - connected living AG
Nobelring 26
Frankfurt
am Main Hessen 60598
DE

9C-2A-83 (hex) Samsung Electronics Co.,Ltd
9C2A83 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-22-A9 (hex) LG Electronics (Mobile Communications)
0022A9 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

00-25-E5 (hex) LG Electronics (Mobile Communications)
0025E5 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

00-21-FB (hex) LG Electronics (Mobile Communications)
0021FB (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

34-FC-EF (hex) LG Electronics (Mobile Communications)
34FCEF (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801

KR

BC-F5-AC (hex) LG Electronics (Mobile Communications)
BCF5AC (base 16) LG
Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

98-D6-F7 (hex) LG Electronics (Mobile Communications)
98D6F7 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

70-05-14 (hex) LG Electronics (Mobile Communications)
700514 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

E8-92-A4 (hex) LG Electronics (Mobile Communications)
E892A4 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

10-68-3F (hex) LG Electronics (Mobile Communications)
10683F (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

40-B0-FA (hex) LG Electronics (Mobile Communications)
40B0FA (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul
153-801
KR

A0-39-F7 (hex) LG Electronics (Mobile Communications)
A039F7 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

1C-CA-E3 (hex) IEEE Registration Authority
1CCAE3 (base 16) IEEE Registration Authority

445 Hoes Lane
Piscataway NJ 08554
US

E4-95-6E (hex) IEEE Registration Authority
E4956E (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

B4-37-D1 (hex) IEEE Registration Authority
B437D1 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

A0-91-C8 (hex) zte corporation
A091C8 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

00-55-DA (hex) IEEE Registration Authority
0055DA (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

78-C2-C0 (hex) IEEE Registration
Authority
78C2C0 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

2C-6A-6F (hex) IEEE Registration Authority
2C6A6F (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

00-60-0F (hex) Westell Technologies Inc.
00600F (base 16) Westell Technologies Inc.
750 N Commons Dr
Aurora IL 60504
US

00-18-3A (hex) Westell Technologies Inc.

00183A (base 16) Westell Technologies Inc.
750 N Commons Dr
Aurora IL 60504
US

00-0E-E8 (hex) Zioncom Electronics (Shenzhen) Ltd.
000EE8 (base 16) Zioncom Electronics (Shenzhen) Ltd.
West wing 5/F ., Block 1, GaoXin South Ring Rd/Keji South Rd,
Shenzhen Guangdong 518057
CN

00-C0-95 (hex) ZNYX Networks, Inc.
00C095 (base 16) ZNYX Networks, Inc.
48421 Milmont Drive
Fremont CA 94538
US

00-20-25 (hex) CONTROL TECHNOLOGY, INC.
002025 (base 16) CONTROL TECHNOLOGY, INC.
5734
MIDDLEBROOK PIKE
KNOXVILLE TN 37921
US

00-1E-37 (hex) Universal Global Scientific Industrial Co., Ltd.
001E37 (base 16) Universal Global Scientific Industrial Co., Ltd.
141, LANE 351,SEC.1, TAIPING RD.
TSAOTUEN, NANTOU 54261
TW

00-1A-6B (hex) Universal Global Scientific Industrial Co., Ltd.
001A6B (base 16) Universal Global Scientific Industrial Co., Ltd.
141, LANE 351,SEC.1, TAIPING RD.
TSAOTUEN, NANTOU 54261
TW

00-16-41 (hex) Universal Global Scientific Industrial Co., Ltd.
001641 (base 16) Universal Global Scientific Industrial Co., Ltd.
141, LANE 351,SEC.1, TAIPING RD.
TSAOTUEN, NANTOU 54261
TW

00-10-C6 (hex) Universal Global Scientific Industrial Co., Ltd.
0010C6 (base 16) Universal Global Scientific Industrial Co., Ltd.
141, LANE 351,SEC.1, TAIPING RD.
TSAOTUEN, NANTOU 54261
TW

00-24-7E (hex) Universal Global Scientific Industrial Co., Ltd.
00247E (base 16) Universal
Global Scientific Industrial Co., Ltd.
141, LANE 351,SEC.1, TAIPING RD.
nantou NANTOU 54261
TW

00-DD-0A (hex) UNGERMANN-BASS INC.
00DD0A (base 16) UNGERMANN-BASS INC.
3900 FREEDOM CIRCLE
SANTA CLARA CA 95054
US

00-25-17 (hex) Venntis, LLC
002517 (base 16) Venntis, LLC
11301 James Street
Holland MI 49424
US

68-35-63 (hex) SHENZHEN LIOWN ELECTRONICS CO.,LTD.
683563 (base 16) SHENZHEN LIOWN ELECTRONICS CO.,LTD.
ROOM 301, NO.7, GONGYE 3RD ROAD
SHEKOU, NANSHAN DISTRICT SHENZHEN 518054
CN

00-40-72 (hex) Applied Innovation Inc.
004072 (base 16) Applied Innovation Inc.
5800 Innovation Drive
Dublin OH 43016-3271
US

00-08-F1 (hex) Voltaire
0008F1 (base 16) Voltaire
9 Hamenofim st.
Herzelia 46725
IL

00-19-9D (hex) Vizio, Inc
00199D (base 16) Vizio, Inc
39 Tesla
Irvine CA 92618
US

00-19-38 (hex) UMB Communications Co., Ltd.
001938 (base 16) UMB
Communications Co., Ltd.
1010, 5, ACE Techno Tower, 197-22, Guro-dong, Guro-gu
Seoul 151-766

KR

44-39-C4 (hex) Universal Global Scientific Industrial Co., Ltd.
4439C4 (base 16) Universal Global Scientific Industrial Co., Ltd.
141,Lane351,Taiping Rd.Sec.1
nan tou 542
TW

40-2C-F4 (hex) Universal Global Scientific Industrial Co., Ltd.
402CF4 (base 16) Universal Global Scientific Industrial Co., Ltd.
141, Lane 351, Taiping Rd. Sec. 1, Tsao Tuen,
Nan-Tou Hsien, 542
TW

00-B0-64 (hex) Cisco Systems, Inc
00B064 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

68-A0-F6 (hex) HUAWEI TECHNOLOGIES CO.,LTD
68A0F6 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-0E-5C (hex) ARRIS Group, Inc.
000E5C (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

84-5D-D7
(hex) Shenzhen Netcom Electronics Co.,Ltd
845DD7 (base 16) Shenzhen Netcom Electronics Co.,Ltd
8/F,1 Building,Finance Base,No.8,Kefa Road,High-Tech Park
Shenzhen Guangdong 518057
CN

1C-57-D8 (hex) Kraftway Corporation PLC
1C57D8 (base 16) Kraftway Corporation PLC
16, 3rd Mytischinskaya st.
Moscow 129626
RU

00-E0-8B (hex) QLogic Corporation
00E08B (base 16) QLogic Corporation
26600 Laguna Hills Dr.

Aliso Viejo CA 92656
US

D8-EB-97 (hex) TRENDnet, Inc.
D8EB97 (base 16) TRENDnet, Inc.
20675 Manhattan Place
Torrance CA 90501
US

00-1C-7E (hex) Toshiba
001C7E (base 16) Toshiba
2-9,Suehiro-Cho
Ome 1988710
JP

00-23-18 (hex) Toshiba
002318 (base 16) Toshiba
2-9,Suehiro-Cho
Ome Tokyo 1988710
JP

B8-6B-23 (hex) Toshiba
B86B23 (base 16) Toshiba
2-9,Suehiro-Cho
Ome Tokyo 1988710
JP

AC-04-0B (hex) Peloton Interactive, Inc
AC040B
(base 16) Peloton Interactive, Inc
158 W 27th St, 4th Fl
New York NY 10001
US

48-FC-B6 (hex) LAVA INTERNATIONAL(H.K) LIMITED
48FCB6 (base 16) LAVA INTERNATIONAL(H.K) LIMITED
UNIT L 1/F MAU LAM COMM BLDG 16-18 MAU LAM ST, JORDAN KL, HK
Hong kong 999077
CN

B0-E2-35 (hex) Xiaomi Communications Co Ltd
B0E235 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

40-C7-29 (hex) Sagemcom Broadband SAS
40C729 (base 16) Sagemcom Broadband SAS

250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

00-13-49 (hex) Zyxel Communications Corporation
001349 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

D8-E0-B8 (hex) BULAT LLC
D8E0B8 (base 16) BULAT LLC
Zagorievsiy proezd 1, room 7
Moscow 115547
RU

60-31-97 (hex) Zyxel
Communications Corporation
603197 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

00-1B-FE (hex) Zavio Inc.
001BFE (base 16) Zavio Inc.
No.1,Lising 1st Rd. Science Based Industrial Park,
Hsinchu 300
TW

54-10-EC (hex) Microchip Technology Inc.
5410EC (base 16) Microchip Technology Inc.
2355 W. Chandler Blvd.
Chandler AZ 85224
US

00-04-A3 (hex) Microchip Technology Inc.
0004A3 (base 16) Microchip Technology Inc.
2355 W. Chandler Blvd.
Chandler AZ 85224
US

78-9C-E7 (hex) Shenzhen Aikede Technology Co., Ltd
789CE7 (base 16) Shenzhen Aikede Technology Co., Ltd
Room 9B,Block B,Neptunus Mansion,
Shenzhen Guangdong 518000
CN

50-9F-3B (hex) OI ELECTRIC CO.,LTD

509F3B (base 16) OI ELECTRIC CO.,LTD
7-3-16 KIKUNA
YOKOHAMA KANAGAWA-KEN 222-0011
JP

14-C9-13 (hex) LG Electronics
14C913 (base 16) LG
Electronics
222 LG-ro, JINWI-MYEON
Pyeongtaek-si Gyeonggi-do 451-713
KR

C0-C9-76 (hex) Shenzhen TINNO Mobile Technology Corp.
C0C976 (base 16) Shenzhen TINNO Mobile Technology Corp.
Building, No.33, Xiandong Rd, Xili
Nanshan District, Shenzhen PRC 518053
CN

58-8B-F3 (hex) Zyxel Communications Corporation
588BF3 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

50-67-F0 (hex) Zyxel Communications Corporation
5067F0 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

44-6E-E5 (hex) HUAWEI TECHNOLOGIES CO.,LTD
446EE5 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C8-77-8B (hex) Mercury Systems – Trusted Mission Solutions, Inc.
C8778B (base 16) Mercury Systems – Trusted Mission Solutions, Inc.
47200
Bayside Pkwy
Fremont CA 94538
US

00-0B-6B (hex) Wistron Neweb Corporation
000B6B (base 16) Wistron Neweb Corporation
No. 10-1, Li-Hsin Road I, Science-based
Hsinchu 300
TW

60-02-B4 (hex) Wistron Neweb Corporation
6002B4 (base 16) Wistron Neweb Corporation
No.20 Park Avenue II
Hsinchu 308
TW

94-DF-4E (hex) Wistron InfoComm(Kunshan)Co.,Ltd.
94DF4E (base 16) Wistron InfoComm(Kunshan)Co.,Ltd.
168# First Avence,Kunshan Export Processing Zone ,China
Kunsha JiangSu 215300
CN

98-EE-CB (hex) Wistron Infocomm (Zhongshan) Corporation
98EECB (base 16) Wistron Infocomm (Zhongshan) Corporation
No.38,East Keji Road,Zhongshan Torch Development Zone,Zhongshan City,Guangdong,China
Zhongshan Guangdong 528437
CN

68-3E-34 (hex) MEIZU Technology Co., Ltd.
683E34 (base 16) MEIZU Technology Co., Ltd.
MEIZU Tech Bldg., Technology & Innovation Coast
Zhuhai Guangdong 519085
CN

00-04-4B
(hex) NVIDIA
00044B (base 16) NVIDIA
3535 Monroe St.
Santa Clara CA 95051
US

AC-9B-0A (hex) Sony Corporation
AC9B0A (base 16) Sony Corporation
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

10-4F-A8 (hex) Sony Corporation
104FA8 (base 16) Sony Corporation
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

A0-60-90 (hex) Samsung Electronics Co.,Ltd
A06090 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350

KR

BC-76-5E (hex) Samsung Electronics Co.,Ltd
BC765E (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

E0-A8-B8 (hex) Le Shi Zhi Xin Electronic Technology (Tianjin) Limited
E0A8B8 (base 16) Le Shi Zhi Xin Electronic Technology (Tianjin) Limited
,Le Shi Building, No.105 Yaojiayuan Road,Chaoyang District,Beijing,China
beijing beijing 100025
CN

F4-5B-73 (hex) Wanjiaan Interconnected Technology Co., Ltd
F45B73
(base 16) Wanjiaan Interconnected Technology Co., Ltd
2nd Floor,Incubation Building, Science Development Institute of China, High-tech South 1st Street, Nanshan District
Shenzhen Guangdong 518040
CN

B8-81-98 (hex) Intel Corporate
B88198 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

B0-D7-CC (hex) Tridonic GmbH & Co KG
B0D7CC (base 16) Tridonic GmbH & Co KG
Färbergasse 15
Dornbirn Vorarlberg 6851
AT

2C-DD-A3 (hex) Point Grey Research Inc.
2CDDA3 (base 16) Point Grey Research Inc.
305-1847 West Broadway
Vancouver British Columbia V6J 1Y6
CA

00-80-9F (hex) ALE International
00809F (base 16) ALE International
32 avenue Kléber
Colombes 92700
FR

B8-24-F0 (hex) SOYO Technology Development Co., Ltd.
B824F0 (base 16) SOYO Technology Development Co., Ltd.

4F, 9Bldg, Longbi Industry Zone, Longgang Dist, Shenzhen City, Guangdong Pro, China
Shenzhen
City Guangdong Pro 518129
CN

D8-5B-2A (hex) Samsung Electronics Co.,Ltd
D85B2A (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A0-09-ED (hex) Avaya Inc
A009ED (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

00-14-B4 (hex) General Dynamics United Kingdom Ltd
0014B4 (base 16) General Dynamics United Kingdom Ltd
Castleham Road
St Leonards on Sea East Sussex TN38 9NJ
GB

A0-B4-37 (hex) GD Mission Systems
A0B437 (base 16) GD Mission Systems
8220 EAST ROOSEVELT ST R2121
SCOTTSDALE AZ 85257
US

E0-98-61 (hex) Motorola Mobility LLC, a Lenovo Company
E09861 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

9C-8E-CD (hex) Amcrest Technologies
9C8ECD (base 16) Amcrest Technologies
16727 Park Row
Houston TX 77084
US

48-C6-63 (hex) GTO Access Systems
LLC
48C663 (base 16) GTO Access Systems LLC
3121 Hartsfield Road
Tallahassee FL 32303
US

00-5F-86 (hex) Cisco Systems, Inc
005F86 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

38-1D-D9 (hex) FN-LINK TECHNOLOGY LIMITED
381DD9 (base 16) FN-LINK TECHNOLOGY LIMITED
A Building,HuiXin industial park,No 31, YongHe road, Fuyong town, Bao'an District
SHENZHEN GUANGDONG 518100
CN

00-F6-63 (hex) Cisco Systems, Inc
00F663 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

8C-6D-50 (hex) SHENZHEN MTC CO LTD
8C6D50 (base 16) SHENZHEN MTC CO LTD
5th Floor, 3rd Building, SHENZHEN MTC Industrial Park, XiaLilang Rd, Nanwan Street, Long’gang District
Shenzhen Guangdong 518100
CN

F8-A0-97 (hex) ARRIS Group, Inc.
F8A097 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

FC-23-25 (hex) EosTek (Shenzhen)
Co., Ltd.
FC2325 (base 16) EosTek (Shenzhen) Co., Ltd.
Room 306, Complex Building Tsinghua High-Tech Park
Shenzhen Guangdong 518057
CN

FC-3D-93 (hex) LONGCHEER TELECOMMUNICATION LIMITED
FC3D93 (base 16) LONGCHEER TELECOMMUNICATION LIMITED
Building 1,No.401,Caobao Rd
Shanghai Xuhui District 200233
CN

8C-59-C3 (hex) ADB Italia
8C59C3 (base 16) ADB Italia
Viale Sarca 222
Milan Italy 20126
IT

1C-B9-C4 (hex) Ruckus Wireless
1CB9C4 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

FC-A8-9A (hex) Sunitec Enterprise Co.,Ltd
FCA89A (base 16) Sunitec Enterprise Co.,Ltd
3F.,No.98-1,Mincyuan Rd.Sindian City
Taipei County 231 231141
CN

1C-7B-23 (hex) Qingdao Hisense Communications Co.,Ltd.
1C7B23 (base 16) Qingdao Hisense Communications Co.,Ltd.
Qianwangang Road 218
Qingdao Shandong 266510
CN

C8-3D-FC (hex) AlphaTheta Corporation
C83DFC
(base 16) AlphaTheta Corporation
6F,Yokohama i-Mark Place, 4-4-5 Minatomirai, Nishi-ku
Yokohama Kanagawa 220-0012
JP

CC-D3-1E (hex) IEEE Registration Authority
CCD31E (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

34-B3-54 (hex) HUAWEI TECHNOLOGIES CO.,LTD
34B354 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C0-2F-F1 (hex) Volta Networks
C02FF1 (base 16) Volta Networks
109 Kingston St, 3rd Floor
Boston MA 02111
US

E8-A7-F2 (hex) sTraffic
E8A7F2 (base 16) sTraffic
4th Fl., KTNET Building, 338 Pangyoro, Bundang-gu
Seongnam Gyeonggi-do 13493

KR

00-1F-20 (hex) Logitech Europe SA
001F20 (base 16) Logitech Europe SA
EPFL - Quartier de l'Innovation
Lausanne CH 1015
CH

1C-6E-76 (hex) Quarion Technology Inc
1C6E76 (base 16) Quarion Technology Inc
3248 Commerce
Drive
Newburgh IN 47630
US

00-62-EC (hex) Cisco Systems, Inc
0062EC (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

6C-0E-E6 (hex) Chengdu Xiyida Electronic Technology Co,.Ltd
6C0EE6 (base 16) Chengdu Xiyida Electronic Technology Co,.Ltd
Room 408,Building A,No.33 Wuqing South Road,Wuhou District
Chengdu Sichuan 610000
CN

00-07-63 (hex) Sunniwell Cyber Tech. Co., Ltd.
000763 (base 16) Sunniwell Cyber Tech. Co., Ltd.
17th Floor Haitai Building #229
Beijing 100083
CN

C4-6A-B7 (hex) Xiaomi Communications Co Ltd
C46AB7 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

00-0A-ED (hex) HARTING Electronics GmbH
000AED (base 16) HARTING Electronics GmbH
Wilhelm Harting Str.1
Espelkamp NRW/OWL 32339
DE

CC-16-7E (hex) Cisco Systems, Inc
CC167E (base 16) Cisco

Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

CC-50-0A (hex) Fiberhome Telecommunication Technologies Co.,LTD
CC500A (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

D0-46-DC (hex) Southwest Research Institute
D046DC (base 16) Southwest Research Institute
6220 Culebra Road
San Antonio Texas 78238
US

0C-DA-41 (hex) Hangzhou H3C Technologies Co., Limited
0CDA41 (base 16) Hangzhou H3C Technologies Co., Limited
310 Liuhe Road, Zhijiang Science Park
Hangzhou Zhejiang, 310053
CN

74-25-8A (hex) Hangzhou H3C Technologies Co., Limited
74258A (base 16) Hangzhou H3C Technologies Co., Limited
310 Liuhe Road, Zhijiang Science Park
Hangzhou Zhejiang, 310053
CN

74-1F-4A (hex) Hangzhou H3C Technologies Co., Limited
741F4A (base 16) Hangzhou H3C Technologies Co., Limited
466 Changhe Road, Binjiang District,
Hangzhou
Zhejiang, P.R.China 310052
CN

70-A2-B3 (hex) Apple, Inc.
70A2B3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F4-0F-24 (hex) Apple, Inc.
F40F24 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

4C-57-CA (hex) Apple, Inc.
4C57CA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

90-C1-C6 (hex) Apple, Inc.
90C1C6 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E4-1D-2D (hex) Mellanox Technologies, Inc.
E41D2D (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway, Suite 100
Sunnyvale CA 94085
US

24-0A-11 (hex) TCT mobile ltd
240A11 (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

D8-E5-6D (hex) TCT mobile ltd
D8E56D (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

54-05-93
(hex) WOORI ELEC Co.,Ltd
540593 (base 16) WOORI ELEC Co.,Ltd
#1401~03, #1411~12, Bucheon Deawoo Techno Park, D-Dong, 261,Doyak-Ro, Wonmi-Gu,Bucheon-Si
Gyeonggi-Do 14523
KR

A0-B6-62 (hex) Acutvista Innovation Co., Ltd.
A0B662 (base 16) Acutvista Innovation Co., Ltd.
2F-1, No. 20 Alley 1, Lane 768, Sec. 4
Taipei City 11577
TW

34-97-F6 (hex) ASUSTek COMPUTER INC.
3497F6 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

50-68-0A (hex) HUAWEI TECHNOLOGIES CO.,LTD
50680A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-A0-06 (hex) IMAGE DATA PROCESSING SYSTEM GROUP
00A006 (base 16) IMAGE DATA PROCESSING SYSTEM GROUP
SHINTOYOFUTA 2-1
KASHIWA-CITY, CHIBA 277
JP

C8-3F-26 (hex) Microsoft Corporation
C83F26 (base 16) Microsoft Corporation
One
Microsoft Way
REDMOND WA 98052
US

00-0C-49 (hex) Dangaard Telecom Denmark A/S
000C49 (base 16) Dangaard Telecom Denmark A/S
Industrivej 1
Padborg DK-6330
DK

00-22-38 (hex) LOGIPLUS
002238 (base 16) LOGIPLUS
1, RUE CLEMENT ADER
GOSSELIES HAINAUT B-6041
BE

F8-DA-0C (hex) Hon Hai Precision Ind. Co.,Ltd.
F8DA0C (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

1C-1B-0D (hex) GIGA-BYTE TECHNOLOGY CO.,LTD.
1C1B0D (base 16) GIGA-BYTE TECHNOLOGY CO.,LTD.
Pin-Jen City, Taoyuan, Taiwan, R.O.C.
Pin-Jen Taoyuan 324
TW

48-E9-F1 (hex) Apple, Inc.
48E9F1 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

90-38-09 (hex) Ericsson AB
903809 (base 16) Ericsson AB
Torshamnsgatan 36
Stockholm SE-164 80
SE

A4-D8-CA (hex) HONG KONG WATER WORLD TECHNOLOGY CO. LIMITED
A4D8CA (base 16) HONG
KONG WATER WORLD TECHNOLOGY CO. LIMITED
RM B-C, 24/F, GOLDEN BEAR INDUSTRIAL CENTRE, 66-82 CHAI WAN KOK STREET,TSUEN WAN. N.T.
Hong Kong 999077
HK

80-19-FE (hex) JianLing Technology CO., LTD
8019FE (base 16) JianLing Technology CO., LTD
No. 383-1, Sec. 2, Jinling Rd., Pingzhen Dist.,
Tao Yuan 324
TW

60-B4-F7 (hex) Plume Design Inc
60B4F7 (base 16) Plume Design Inc
200 California Ave
Palo Alto CA 94306
US

44-65-0D (hex) Amazon Technologies Inc.
44650D (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

E4-2F-56 (hex) OptoMET GmbH
E42F56 (base 16) OptoMET GmbH
Pfungstaedter Str. 92
Darmstadt 64297
DE

00-16-8F (hex) GN Netcom A/S
00168F (base 16) GN Netcom A/S
Metalbuen 66
Ballerup Skovlunde DK-2750
DK

48-7A-DA (hex) Hangzhou H3C Technologies Co., Limited
487ADA (base 16) Hangzhou H3C Technologies Co., Limited

466 Changhe Road,
Binjiang District
Hangzhou Zhejiang, P.R.China 310052
CN

10-78-D2 (hex) Elitegroup Computer Systems Co.,Ltd.
1078D2 (base 16) Elitegroup Computer Systems Co.,Ltd.
NO. 239, Sec. 2, Ti Ding Blvd.
Taipei Taiwan 11493
TW

00-21-97 (hex) Elitegroup Computer Systems Co.,Ltd.
002197 (base 16) Elitegroup Computer Systems Co.,Ltd.
NO.239, Sec. 2, Ti Ding Blvd.,
Taipei 11493
TW

00-1E-90 (hex) Elitegroup Computer Systems Co.,Ltd.
001E90 (base 16) Elitegroup Computer Systems Co.,Ltd.
No.239, Sec. 2, Ti Ding Blvd
Taipei 11493
TW

00-22-B1 (hex) Elbit Systems Ltd.
0022B1 (base 16) Elbit Systems Ltd.
p.o.b. 539
Haifa 36925
IL

00-00-B4 (hex) Edimax Technology Co. Ltd.
0000B4 (base 16) Edimax Technology Co. Ltd.
No. 278, Xinhu 1st Road
Taipei City Neihu Dist 248
TW

A0-8C-FD (hex) Hewlett Packard
A08CFD (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston
TX 77070
US

60-B3-87 (hex) Synergics Technologies GmbH
60B387 (base 16) Synergics Technologies GmbH
Hummelgasse 74-76/19
Vienna Austria 1130
AT

00-1F-45 (hex) Enterasys
001F45 (base 16) Enterasys
50 Minuteman Road
Andover MA 01810
US

00-0E-03 (hex) Emulex Corporation
000E03 (base 16) Emulex Corporation
3333 Susan Street
Costa Mesa CA 92626
US

00-0D-87 (hex) Elitegroup Computer Systems Co.,Ltd.
000D87 (base 16) Elitegroup Computer Systems Co.,Ltd.
No.22, Alley 38, Lane 91, Sec. 1, Nei Hu
Taipei 114
TW

FC-3F-7C (hex) HUAWEI TECHNOLOGIES CO.,LTD
FC3F7C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

38-4C-4F (hex) HUAWEI TECHNOLOGIES CO.,LTD
384C4F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

FC-08-4A
(hex) FUJITSU LIMITED
FC084A (base 16) FUJITSU LIMITED
403, Kosugi-cho 1-chome, Nakahara-ku
Kawasaki Kanagawa 211-0063
JP

00-CA-E5 (hex) Cisco Systems, Inc
00CAE5 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-42-68 (hex) Cisco Systems, Inc
004268 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

48-83-C7 (hex) Sagemcom Broadband SAS
4883C7 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

40-16-3B (hex) Samsung Electronics Co.,Ltd
40163B (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

48-55-5F (hex) Fiberhome Telecommunication Technologies Co.,LTD
48555F (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan City Hubei Province 430074
CN

BC-98-89 (hex) Fiberhome Telecommunication
Technologies Co.,LTD
BC9889 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan City Hubei Province 430074
CN

24-61-5A (hex) China Mobile Group Device Co.,Ltd.
24615A (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

04-A3-16 (hex) Texas Instruments
04A316 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

D4-F2-07 (hex) DIAODIAO(Beijing)Technology CO.,Ltd
D4F207 (base 16) DIAODIAO(Beijing)Technology CO.,Ltd
48D Image Base, No 3 Guangqu Road, Chaoyang District, Beijing, China
Beijing 100124
CN

D4-AD-2D (hex) Fiberhome Telecommunication Technologies Co.,LTD
D4AD2D (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan City Hubei Province 430074

CN

F0-8C-FB (hex) Fiberhome Telecommunication Technologies Co.,LTD
F08CFB (base 16) Fiberhome
Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan City Hubei Province 430074
CN

30-B4-9E (hex) TP-LINK TECHNOLOGIES CO.,LTD.
30B49E (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

34-E7-0B (hex) HAN Networks Co., Ltd
34E70B (base 16) HAN Networks Co., Ltd
5F,#37 Building,#8 Dongbeiwang Eest Road
Haidian District Beijing 100193
CN

00-78-88 (hex) Cisco Systems, Inc
007888 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

14-0C-5B (hex) PLNetworks
140C5B (base 16) PLNetworks
B-613, Tancheonsang-ro 164(Sigma 2)
Seongnam-si Bundang-gu, Gyeonggi-do 13631
KR

50-FF-99 (hex) IEEE Registration Authority
50FF99 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

84-E3-23 (hex) Green Wave Telecommunication
SDN BHD
84E323 (base 16) Green Wave Telecommunication SDN BHD
8, 12, 9 - Menara Mutiara, Bangsar, Jalan Liku, Off Jalan Bangsar
Kuala Lumpur 59100
MY

0C-BF-3F (hex) Shenzhen Lencotion Technology Co.,Ltd
0CBF3F (base 16) Shenzhen Lencotion Technology Co.,Ltd

LongGang,Buji Xia Shuijing,Hubei Baofeng Lndustrial Area,2/F,TowerB
shenzhen Guangdong 518112
CN

00-17-06 (hex) Techfaithwireless Communication Technology Limited.
001706 (base 16) Techfaithwireless Communication Technology Limited.
2/F M8 West No.1 Jiu Xian Qiao Dong Road,
Beijing 100016
CN

C8-38-70 (hex) Samsung Electronics Co.,Ltd
C83870 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

1C-55-3A (hex) QianGua Corp.
1C553A (base 16) QianGua Corp.
Room 1106, block B,No.391,Gui Ping Road
Xu Hui District ShangHai 200223
CN

00-8E-73 (hex) Cisco Systems, Inc
008E73 (base
16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

9C-9D-5D (hex) Raden Inc
9C9D5D (base 16) Raden Inc
15 Maiden Lane
New York NY 10038
US

DC-4D-23 (hex) MRV Comunications
DC4D23 (base 16) MRV Comunications
Hayetzira
Yokneam 614
IL

00-23-B3 (hex) Lyyn AB
0023B3 (base 16) Lyyn AB
IDEON Science Park
Lund 223 70
SE

24-8A-07 (hex) Mellanox Technologies, Inc.

248A07 (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway, Suite 100
Sunnyvale CA 94085
US

40-5E-E1 (hex) Shenzhen H&T Intelligent Control Co.,Ltd.
405EE1 (base 16) Shenzhen H&T Intelligent Control Co.,Ltd.
D-Zone,10/F,Shenzhen Academy of Aerospace Technology,Hi-Tech Park at Nanshan District,Shenzhen,China
Shenzhen 518000
CN

00-25-78 (hex) JSC Concern Sozvezdie
002578 (base 16) JSC Concern Sozvezdie
Plekhanovskaya st., 14
Voronezh 394018
RU

08-5B-DA (hex) CliniCare
LTD
085BDA (base 16) CliniCare LTD
HaSadna 11 Suite 207
Ra'anana 4365006
IL

1C-C0-35 (hex) PLANEX COMMUNICATIONS INC.
1CC035 (base 16) PLANEX COMMUNICATIONS INC.
Planex Volta Bldg., 2-11-9 Ebisu-Nishi,Shibuya-ku,Tokyo 150-0021,Japan
Tokyo Tokyo 150-0021
JP

58-32-77 (hex) Reliance Communications LLC
583277 (base 16) Reliance Communications LLC
555 Wireless Blvd
Hauppauge NY 11788
US

00-15-C1 (hex) Sony Interactive Entertainment Inc.
0015C1 (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

34-54-3C (hex) TAKAOKA TOKO CO.,LTD.
34543C (base 16) TAKAOKA TOKO CO.,LTD.
8F,SIA TOYOSU PRIME SQUARE,5-6-36,Toyosu
Koto-ku Tokyo 1350061
JP

90-03-25 (hex) HUAWEI TECHNOLOGIES CO.,LTD
900325 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

98-E7-F5 (hex) HUAWEI
TECHNOLOGIES CO.,LTD
98E7F5 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A0-9D-91 (hex) SoundBridge
A09D91 (base 16) SoundBridge
#810, IT Convergence Industrial Bldg. 47, Gyeongdae-ro 17-Gil, Buk-gu,
Daegu 41566
KR

40-B6-88 (hex) LEGIC Identsystems AG
40B688 (base 16) LEGIC Identsystems AG
Binzackerstrasse 41
Wetzikon 8620
CH

9C-D4-8B (hex) Innolux Technology Europe BV
9CD48B (base 16) Innolux Technology Europe BV
Stationstraat 39G
Heerlen 6411NK
NL

90-A6-2F (hex) NAVER
90A62F (base 16) NAVER
NAVER Green Factory, 6, Buljeong-ro, Bundang-gu
Seongnam-si Gyeonggi-do 463-867
KR

C0-C5-22 (hex) ARRIS Group, Inc.
C0C522 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

1C-9E-46 (hex) Apple, Inc.
1C9E46 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino

CA 95014
US

9C-4F-DA (hex) Apple, Inc.
9C4FDA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-35-1A (hex) Cisco Systems, Inc
00351A (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-AF-1F (hex) Cisco Systems, Inc
00AF1F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

C0-CC-F8 (hex) Apple, Inc.
C0CCF8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

40-2E-28 (hex) MiXTelematics
402E28 (base 16) MiXTelematics
Blaauwklip Office Park 2
Stellenbosch Cape Province 7600
ZA

6C-8F-B5 (hex) Microsoft Mobile Oy
6C8FB5 (base 16) Microsoft Mobile Oy
Keilalahdentie 4
Espoo 02150
FI

C4-E5-10 (hex) Mechatro, Inc.
C4E510 (base 16) Mechatro, Inc.
169-28, Gasan Digital 2-ro, Geumcheon-Gu
Seoul 08500
KR

80-38-96 (hex) SHARP Corporation
803896 (base

16) SHARP Corporation
1 Takumi-cho, Sakai-ku
Sakai City Osaka 590-8522
JP

84-89-AD (hex) Apple, Inc.
8489AD (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-60-EC (hex) HERMARY OPTO ELECTRONICS INC.
0060EC (base 16) HERMARY OPTO ELECTRONICS INC.
201-4050 GRAVELEY ST
BURNABY, BC V5C-3T6
CA

AC-3A-7A (hex) Roku, Inc.
AC3A7A (base 16) Roku, Inc.
12980 Saratoga Ave
Saratoga 95070
US

B8-3E-59 (hex) Roku, Inc.
B83E59 (base 16) Roku, Inc.
12980 Saratoga Ave.
Saratoga CA 95070
US

DC-3A-5E (hex) Roku, Inc.
DC3A5E (base 16) Roku, Inc.
12980 Saratoga Ave.
Saratoga CA 95070
US

00-50-7F (hex) DrayTek Corp.
00507F (base 16) DrayTek Corp.
26, Fushing Rd.
Hsinchu Hukou 303
TW

00-1A-73 (hex) Gemtek Technology Co., Ltd.
001A73 (base 16) Gemtek Technology Co., Ltd.
No. 1 Jen Ai Road, Hsinchu Industrial Park, Hukou,
Hsinchu
303
TW

00-90-4B (hex) Gemtek Technology Co., Ltd.
00904B (base 16) Gemtek Technology Co., Ltd.
No. 1 Jen Ai Road,
Hukou, Hsinchu, Taiwan 30352
TW

00-1A-7F (hex) GCI Science & Technology Co.,LTD
001A7F (base 16) GCI Science & Technology Co.,LTD
No.381, Xingangzhong Road,
guangzhou guangdong 510310
CN

00-24-D4 (hex) FREEBOX SAS
0024D4 (base 16) FREEBOX SAS
8 rue de la Ville l'Eveque
PARIS IdF 75008
FR

EC-F3-5B (hex) Nokia Corporation
ECF35B (base 16) Nokia Corporation
Joensuunkatu 7
Salo Varsinais-Suomi 24101
FI

54-44-08 (hex) Nokia Corporation
544408 (base 16) Nokia Corporation
Joensuunkatu 7
Salo Varsinais-Suomi 24101
FI

3C-C2-43 (hex) Nokia Corporation
3CC243 (base 16) Nokia Corporation
Joensuunkatu 7
Salo NA 24101
FI

34-7E-39 (hex) Nokia Danmark A/S
347E39 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-18-0F
(hex) Nokia Danmark A/S
00180F (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V Denmark 1790V
DK

C8-97-9F (hex) Nokia Corporation
C8979F (base 16) Nokia Corporation
Joensuunkatu 7
Salo Varsinais-Suomi 24101
FI

00-21-FC (hex) Nokia Danmark A/S
0021FC (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790V
DK

00-1F-5D (hex) Nokia Danmark A/S
001F5D (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790V
DK

00-1F-01 (hex) Nokia Danmark A/S
001F01 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790V
DK

00-19-79 (hex) Nokia Danmark A/S
001979 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-25-D0 (hex) Nokia Danmark A/S
0025D0 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-1B-EE (hex) Nokia Danmark A/S
001BEE (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen
V DK-1790
DK

00-17-5A (hex) Cisco Systems, Inc
00175A (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568

US

00-90-A2 (hex) CyberTAN Technology Inc.
0090A2 (base 16) CyberTAN Technology Inc.
99, Park Avenue III
Hsinchu 12345
TW

00-90-D6 (hex) Crystal Group, Inc.
0090D6 (base 16) Crystal Group, Inc.
850 KACENA RD.
HIAWATHA IA 52233
US

64-77-91 (hex) Samsung Electronics Co.,Ltd
647791 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

9C-E6-E7 (hex) Samsung Electronics Co.,Ltd
9CE6E7 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

9C-02-98 (hex) Samsung Electronics Co.,Ltd
9C0298 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

28-98-7B (hex) Samsung Electronics Co.,Ltd
28987B (base 16) Samsung
Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

0C-71-5D (hex) Samsung Electronics Co.,Ltd
0C715D (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

BC-D1-1F (hex) Samsung Electronics Co.,Ltd
BCD11F (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong

Gumi Gyeongbuk 730-350
KR

F4-42-8F (hex) Samsung Electronics Co.,Ltd
F4428F (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

44-6D-6C (hex) Samsung Electronics Co.,Ltd
446D6C (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-F4-6F (hex) Samsung Electronics Co.,Ltd
00F46F (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

54-FA-3E (hex) Samsung Electronics Co.,Ltd
54FA3E (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do
16677
KR

0C-89-10 (hex) Samsung Electronics Co.,Ltd
0C8910 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

78-AB-BB (hex) Samsung Electronics Co.,Ltd
78ABBB (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

D4-76-EA (hex) zte corporation
D476EA (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

00-10-18 (hex) Broadcom
001018 (base 16) Broadcom

16215 ALTON PARKWAY
IRVINE CA 92619-7013
US

18-C0-86 (hex) Broadcom
18C086 (base 16) Broadcom
5300 California Avenue
Irvine CA 92617
US

D8-C4-E9 (hex) Samsung Electronics Co.,Ltd
D8C4E9 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

7C-1C-F1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
7C1CF1 (base 16) HUAWEI TECHNOLOGIES
CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

78-F5-57 (hex) HUAWEI TECHNOLOGIES CO.,LTD
78F557 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E0-28-61 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E02861 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D0-D0-4B (hex) HUAWEI TECHNOLOGIES CO.,LTD
D0D04B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

48-00-31 (hex) HUAWEI TECHNOLOGIES CO.,LTD
480031 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

4C-09-D4 (hex) Arcadyan Technology Corporation

4C09D4 (base 16) Arcadyan Technology Corporation
4F, No. 9, Park Avenue II
,
Hsinchu 300
TW

C8-FF-28 (hex) Liteon Technology Corporation
C8FF28 (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

B8-16-19 (hex) ARRIS Group, Inc.
B81619 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

B0-77-AC (hex) ARRIS Group, Inc.
B077AC (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-24-93 (hex) ARRIS Group, Inc.
002493 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

9C-80-DF (hex) Arcadyan Technology Corporation
9C80DF (base 16) Arcadyan Technology Corporation
4F, No. 9, Park Avenue II ,
Hsinchu 300
TW

00-23-08 (hex) Arcadyan Technology Corporation
002308 (base 16) Arcadyan Technology Corporation
4F, No. 9, Park Avenue II ,
Hsinchu 300
TW

88-03-55 (hex) Arcadyan Technology Corporation
880355 (base 16) Arcadyan
Technology Corporation
4F., No.9 , Park Avenue II
Hsinchu 300
TW

34-BB-1F (hex) BlackBerry RTS
34BB1F (base 16) BlackBerry RTS
451 Phillip Street
Waterloo ON N2L 3X2
CA

FC-B4-E6 (hex) ASKEY COMPUTER CORP
FCB4E6 (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
TAIWAN NEW TAIPEI 23585
TW

08-96-D7 (hex) AVM GmbH
0896D7 (base 16) AVM GmbH
Alt-Moabit 95
Berlin Berlin 10559
DE

50-6A-03 (hex) NETGEAR
506A03 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

10-0D-7F (hex) NETGEAR
100D7F (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

50-4A-6E (hex) NETGEAR
504A6E (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

E0-46-9A (hex) NETGEAR
E0469A (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

40-6F-2A (hex) BlackBerry RTS
406F2A (base 16) BlackBerry
RTS
295 Phillip Street
Waterloo Ontario N2V 2S7

CA

30-46-9A (hex) NETGEAR
30469A (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

04-E6-76 (hex) AMPAK Technology, Inc.
04E676 (base 16) AMPAK Technology, Inc.
No.1,Jen Ai Road
Hsinchu 30352
TW

00-22-F4 (hex) AMPAK Technology, Inc.
0022F4 (base 16) AMPAK Technology, Inc.
No. 8-1, Nanyuan 2nd Rd.
Jhongli Taoyuan 320
TW

00-1D-BA (hex) Sony Corporation
001DBA (base 16) Sony Corporation
Gotenyama Tec,5-1-12,
Shinagawa-ku Tokyo 141-0001
JP

00-24-BE (hex) Sony Corporation
0024BE (base 16) Sony Corporation
Gotenyama Tec. 5-1-12
Shinagawa-ku Tokyo 141-0001
JP

00-0F-DE (hex) Sony Corporation
000FDE (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

00-1D-6B (hex) ARRIS Group, Inc.
001D6B (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego
CA 92121
US

00-1D-BE (hex) ARRIS Group, Inc.
001DBE (base 16) ARRIS Group, Inc.
6450 Sequence Drive

San Diego CA 92121
US

00-12-C9 (hex) ARRIS Group, Inc.
0012C9 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-19-2C (hex) ARRIS Group, Inc.
00192C (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-19-5E (hex) ARRIS Group, Inc.
00195E (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1A-1B (hex) ARRIS Group, Inc.
001A1B (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1A-66 (hex) ARRIS Group, Inc.
001A66 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1A-77 (hex) ARRIS Group, Inc.
001A77 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

20-E5-64 (hex) ARRIS Group, Inc.
20E564
(base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

90-B1-34 (hex) ARRIS Group, Inc.
90B134 (base 16) ARRIS Group, Inc.

6450 Sequence Drive
San Diego CA 92121
US

40-B7-F3 (hex) ARRIS Group, Inc.
40B7F3 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-15-D0 (hex) ARRIS Group, Inc.
0015D0 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-15-96 (hex) ARRIS Group, Inc.
001596 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-23-A2 (hex) ARRIS Group, Inc.
0023A2 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-23-ED (hex) ARRIS Group, Inc.
0023ED (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1B-52 (hex) ARRIS Group, Inc.
001B52 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego
CA 92121
US

00-1E-8D (hex) ARRIS Group, Inc.
001E8D (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1B-DD (hex) ARRIS Group, Inc.

001BDD (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-26-41 (hex) ARRIS Group, Inc.
002641 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

A4-ED-4E (hex) ARRIS Group, Inc.
A4ED4E (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-21-1E (hex) ARRIS Group, Inc.
00211E (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-21-80 (hex) ARRIS Group, Inc.
002180 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1B-59 (hex) Sony Corporation
001B59 (base 16) Sony Corporation
4-12-3 Higashi – Shinagawa
Shinagawa-ku Tokyo 140-0002
JP

00-22-98 (hex) Sony Corporation
002298
(base 16) Sony Corporation
4-12-3 Higashi – Shinagawa
Shinagawa-ku Tokyo 140-0002
JP

24-21-AB (hex) Sony Corporation
2421AB (base 16) Sony Corporation
4-12-3 Higashi – Shinagawa
Shinagawa-ku Tokyo 140-0002
JP

B8-F9-34 (hex) Sony Corporation
B8F934 (base 16) Sony Corporation
4-12-3 Higashi – Shinagawa
Shinagawa-ku Tokyo 140-0002
JP

8C-64-22 (hex) Sony Corporation
8C6422 (base 16) Sony Corporation
4-12-3 Higashi – Shinagawa
Shinagawa-ku Tokyo 140-0002
JP

00-17-E2 (hex) ARRIS Group, Inc.
0017E2 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-16-75 (hex) ARRIS Group, Inc.
001675 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-0C-E5 (hex) ARRIS Group, Inc.
000CE5 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-03-E0 (hex) ARRIS Group, Inc.
0003E0 (base
16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-00-6E (hex) Artisoft Inc.
00006E (base 16) Artisoft Inc.
691 EAST RIVER ROAD
TUCSON AZ 85704
US

00-DA-55 (hex) Cisco Systems, Inc
00DA55 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-04-E3 (hex) Accton Technology Corp
0004E3 (base 16) Accton Technology Corp
No. 1 Creation Rd. III,
Hsinchu Hsinchu TAIWAN
TW

00-10-B5 (hex) Accton Technology Corp
0010B5 (base 16) Accton Technology Corp
NO.1, CREATION RD. III
HSINCHU 300 12345
TW

00-19-74 (hex) 16063
001974 (base 16) 16063
1F , No. 21, Yanfa 2nd Rd., SBIP
Hsinchu City Hsinchu 300
TW

E0-B2-F1 (hex) FN-LINK TECHNOLOGY LIMITED
E0B2F1 (base 16) FN-LINK TECHNOLOGY LIMITED
5th Floor, A Building, Haoye Logistics Park, Shugang Channel, Bao'an District,
SHENZHEN GUANGDONG 518000
CN

0C-4C-39 (hex) MitraStar
Technology Corp.
0C4C39 (base 16) MitraStar Technology Corp.
4F No.6 Innovation Road II
Hsin-Chu 300
TW

E0-63-E5 (hex) Sony Corporation
E063E5 (base 16) Sony Corporation
4-12-3 Higashi – Shinagawa
Shinagawa-ku Tokyo 140-0002
JP

F8-D0-AC (hex) Sony Interactive Entertainment Inc.
F8D0AC (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

0C-FE-45 (hex) Sony Interactive Entertainment Inc.
0CFE45 (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075

JP

20-16-D8 (hex) Liteon Technology Corporation
2016D8 (base 16) Liteon Technology Corporation
4F,90,Chien 1 Road,ChungHo
New Taipei City Taipei 23585
TW

F0-27-2D (hex) Amazon Technologies Inc.
F0272D (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

84-D6-D0 (hex) Amazon Technologies Inc.
84D6D0 (base 16) Amazon Technologies
Inc.
P.O Box 8102
Reno NV 89507
US

00-D0-C9 (hex) ADVANTECH CO., LTD.
00D0C9 (base 16) ADVANTECH CO., LTD.
FL. 4, NO. 108-3
TAIPEI TAIPEI TAIWAN
TW

64-87-D7 (hex) ADB Broadband Italia
6487D7 (base 16) ADB Broadband Italia
VIALE SARCA 222
MILANO 20126
IT

38-22-9D (hex) ADB Broadband Italia
38229D (base 16) ADB Broadband Italia
VIALE SARCA 222
MILANO 20126
IT

A4-52-6F (hex) ADB Broadband Italia
A4526F (base 16) ADB Broadband Italia
via Sarca 222
Milano 20126
IT

74-88-8B (hex) ADB Broadband Italia
74888B (base 16) ADB Broadband Italia
via Sarca 222

Milano 20126
IT

00-8C-54 (hex) ADB Broadband Italia
008C54 (base 16) ADB Broadband Italia
VIALE SARCA 336
MILANO 20126
US

00-24-7B (hex) Actiontec Electronics, Inc
00247B (base 16) Actiontec Electronics, Inc
3301 Olcott St.
Santa Clara CA 95054
US

E8-61-7E
(hex) Liteon Technology Corporation
E8617E (base 16) Liteon Technology Corporation
4F,90,Chien 1 Road,ChungHo,Taipei Hsien,Taiwan,
TaiPei TaiWan 23585
TW

18-CF-5E (hex) Liteon Technology Corporation
18CF5E (base 16) Liteon Technology Corporation
4F,90,Chien 1 Road,ChungHo,Taipei Hsien,Taiwan,
TaiPei TaiWan 23585
TW

18-FE-34 (hex) Espressif Inc.
18FE34 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

00-22-43 (hex) AzureWave Technology Inc.
002243 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd., Xindian
Taipei 231
TW

18-E3-BC (hex) TCT mobile ltd
18E3BC (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

CC-1F-C4 (hex) InVue
CC1FC4 (base 16) InVue

15015 Lancaster Hwy
Charlotte NC 28277
US

5C-36-B8 (hex) TCL King Electrical Appliances
(Huizhou) Co., Ltd
5C36B8 (base 16) TCL King Electrical Appliances (Huizhou) Co., Ltd
7/FTCL Multimedia Building, TCL International E City, No.1001 Zhongshanyuan Road, Nanshan
Shenzhen Guangdong 518052
CN

00-AA-01 (hex) Intel Corporation
00AA01 (base 16) Intel Corporation
445
piscataway NJ 08554
US

00-AA-00 (hex) Intel Corporation
00AA00 (base 16) Intel Corporation
5200 NE ELAM YOUNG PARKWAY
HILLSBORO OR 97124
US

00-C2-C6 (hex) Intel Corporate
00C2C6 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

5C-D2-E4 (hex) Intel Corporate
5CD2E4 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

28-B2-BD (hex) Intel Corporate
28B2BD (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

98-5F-D3 (hex) Microsoft Corporation
985FD3 (base 16) Microsoft Corporation
One Microsoft Way
REDMOND
WA 98052
US

44-85-00 (hex) Intel Corporate
448500 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

0C-D2-92 (hex) Intel Corporate
0CD292 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

68-5D-43 (hex) Intel Corporate
685D43 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

A0-36-9F (hex) Intel Corporate
A0369F (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

64-D4-DA (hex) Intel Corporate
64D4DA (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

40-25-C2 (hex) Intel Corporate
4025C2 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

50-2D-A2 (hex) Intel Corporate
502DA2 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

78-92-9C (hex) Intel Corporate
78929C
(base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

4C-79-BA (hex) Intel Corporate
4C79BA (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

84-A6-C8 (hex) Intel Corporate
84A6C8 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

58-91-CF (hex) Intel Corporate
5891CF (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

0C-8B-FD (hex) Intel Corporate
0C8BFD (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

84-3A-4B (hex) Intel Corporate
843A4B (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

5C-51-4F (hex) Intel Corporate
5C514F (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

A4-4E-31 (hex) Intel Corporate
A44E31 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech
2/3
Kulim Kedah 09000
MY

DC-A9-71 (hex) Intel Corporate
DCA971 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000

MY

58-94-6B (hex) Intel Corporate
58946B (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-24-D7 (hex) Intel Corporate
0024D7 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-24-D6 (hex) Intel Corporate
0024D6 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-1D-E0 (hex) Intel Corporate
001DE0 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

A0-A8-CD (hex) Intel Corporate
A0A8CD (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

5C-C5-D4 (hex) Intel Corporate
5CC5D4 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

4C-EB-42 (hex) Intel
Corporate
4CEB42 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

F8-16-54 (hex) Intel Corporate
F81654 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3

Kulim Kedah 09000
MY

60-6C-66 (hex) Intel Corporate
606C66 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

4C-80-93 (hex) Intel Corporate
4C8093 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

AC-72-89 (hex) Intel Corporate
AC7289 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

60-5B-B4 (hex) AzureWave Technology Inc.
605BB4 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.,
New Taipei City Taiwan 231
TW

64-D9-54 (hex) Taicang T&W Electronics
64D954 (base 16) Taicang T&W Electronics
89# Jiang Nan RD, Lu Du,
Taicang Jiangsu 215412
CN

00-1E-64 (hex) Intel Corporate
001E64
(base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-21-5C (hex) Intel Corporate
00215C (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-21-6B (hex) Intel Corporate
00216B (base 16) Intel Corporate

Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-22-FB (hex) Intel Corporate
0022FB (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-15-17 (hex) Intel Corporate
001517 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

24-7C-4C (hex) Herman Miller
247C4C (base 16) Herman Miller
Unit 2, 2/F The Factory, 1 Yip Fat Street
Wong Chuk Hang -
HK

E4-6F-13 (hex) D-Link International
E46F13 (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy, Singapore
Singapore Singapore 609917
SG

1C-44-19 (hex) TP-LINK TECHNOLOGIES
CO.,LTD.
1C4419 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

00-26-91 (hex) Sagemcom Broadband SAS
002691 (base 16) Sagemcom Broadband SAS
Le Ponnant de Paris
CEDEX Paris 75512
FR

98-8B-5D (hex) Sagemcom Broadband SAS
988B5D (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
Rueil Malmaison 92848
FR

90-01-3B (hex) Sagemcom Broadband SAS

90013B (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
Rueil Malmaison Cedex Hauts de Seine 92848
FR

7C-03-4C (hex) Sagemcom Broadband SAS
7C034C (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
Rueil Malmaison Cedex Hauts de Seine 92848
FR

6C-2E-85 (hex) Sagemcom Broadband SAS
6C2E85 (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
Rueil Malmaison Cedex Hauts de Seine
92848
FR

94-FE-F4 (hex) Sagemcom Broadband SAS
94FEF4 (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
Rueil Malmaison Cedex Hauts de Seine 92848
FR

28-FA-A0 (hex) vivo Mobile Communication Co., Ltd.
28FAA0 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

EC-DF-3A (hex) vivo Mobile Communication Co., Ltd.
ECDF3A (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

5C-35-3B (hex) Compal Broadband Networks, Inc.
5C353B (base 16) Compal Broadband Networks, Inc.
13F., No.1, Taiyuan 1st St.
Zhubei City Hsinchu County 30265
TW

00-60-4C (hex) Sagemcom Broadband SAS
00604C (base 16) Sagemcom Broadband SAS
27 RUE LEBLANC
CEDEX 15 PARIS 75512
FR

00-1F-95 (hex) Sagemcom Broadband SAS
001F95 (base 16) Sagemcom Broadband SAS
Le Ponnant de
Paris
CEDEX Paris 75512
FR

00-23-48 (hex) Sagemcom Broadband SAS
002348 (base 16) Sagemcom Broadband SAS
Le Ponnant de Paris
CEDEX Paris 75512
FR

44-87-23 (hex) HOYA SERVICE CORPORATION
448723 (base 16) HOYA SERVICE CORPORATION
4-10-2 Nakano
Nakano-ku Tokyo 164-8545
JP

D8-6C-02 (hex) Huaqin Telecom Technology Co.,Ltd
D86C02 (base 16) Huaqin Telecom Technology Co.,Ltd
No.1 Building,399 Keyuan Road, Zhangjian Hi-Tech Park, Pudong New Area
Shanghai 201203
CN

60-BE-B5 (hex) Motorola Mobility LLC, a Lenovo Company
60BEB5 (base 16) Motorola Mobility LLC, a Lenovo Company
600 North US Highway 45
Libertyville IL 60048
US

F8-F1-B6 (hex) Motorola Mobility LLC, a Lenovo Company
F8F1B6 (base 16) Motorola Mobility LLC, a Lenovo Company
600 North US Highway 45
Libertyville IL 60048
US

3C-FD-FE (hex) Intel Corporate
3CFDFE (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech
2/3
Kulim Kedah 09000
MY

A4-C4-94 (hex) Intel Corporate
A4C494 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000

MY

90-2E-1C (hex) Intel Corporate
902E1C (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

A4-34-D9 (hex) Intel Corporate
A434D9 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

F4-F1-E1 (hex) Motorola Mobility LLC, a Lenovo Company
F4F1E1 (base 16) Motorola Mobility LLC, a Lenovo Company
222 Merchandise Mart Plaza, Suite 1800
Chicago IL 60654
US

9C-D9-17 (hex) Motorola Mobility LLC, a Lenovo Company
9CD917 (base 16) Motorola Mobility LLC, a Lenovo Company
222 Merchandise Mart Plaza, Suite 1800
Chicago IL 60654
US

90-68-C3 (hex) Motorola Mobility LLC, a Lenovo Company
9068C3 (base 16) Motorola Mobility LLC, a Lenovo Company
222 Merchandise Mart Plaza, Suite 1800
Chicago
IL 60654
US

3C-19-7D (hex) Ericsson AB
3C197D (base 16) Ericsson AB
Torshamnsgatan 36
Stockholm SE-164 80
SE

34-EF-44 (hex) 2Wire Inc
34EF44 (base 16) 2Wire Inc
1764 Automation Pkwy
San Jose CA 95131
US

B0-E7-54 (hex) 2Wire Inc
B0E754 (base 16) 2Wire Inc
1764 Automation Parkway

San Jose 95131
US

B8-E6-25 (hex) 2Wire Inc
B8E625 (base 16) 2Wire Inc
1764 Automation Parkway
San Jose 95131
US

00-1D-5A (hex) 2Wire Inc
001D5A (base 16) 2Wire Inc
1704 Automation Parkway
San Jose 95131
US

00-25-3C (hex) 2Wire Inc
00253C (base 16) 2Wire Inc
1764 Automation Parkway
San Jose CA 95131
US

F4-29-81 (hex) vivo Mobile Communication Co., Ltd.
F42981 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

84-F6-FA (hex) Miovision Technologies Incorporated
84F6FA (base 16) Miovision
Technologies Incorporated
148 Manitou Drive
KITCHENER Ontario N2C1L4
CA

70-10-6F (hex) Hewlett Packard Enterprise
70106F (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

F8-E7-1E (hex) Ruckus Wireless
F8E71E (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

00-17-83 (hex) Texas Instruments
001783 (base 16) Texas Instruments

12500 TI Boulevard, MS 8723
Dallas TX 75243
US

34-B1-F7 (hex) Texas Instruments
34B1F7 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

2C-FD-37 (hex) Blue Calypso, Inc.
2CFD37 (base 16) Blue Calypso, Inc.
101 West Renner RD Suite 280
Richardson TX 75082
US

0C-61-27 (hex) Actiontec Electronics, Inc
0C6127 (base 16) Actiontec Electronics, Inc
3301 Olcott St.
Santa Clara CA 95054
US

08-86-3B (hex) Belkin International Inc.
08863B
(base 16) Belkin International Inc.
12045 East Waterfront Drive
Playa Vista CA 90094
US

2C-56-DC (hex) ASUSTek COMPUTER INC.
2C56DC (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

3C-D9-2B (hex) Hewlett Packard
3CD92B (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

90-D7-EB (hex) Texas Instruments
90D7EB (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

78-DE-E4 (hex) Texas Instruments

78DEE4 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

00-18-33 (hex) Texas Instruments
001833 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

00-18-34 (hex) Texas Instruments
001834 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

00-17-E3 (hex) Texas Instruments
0017E3
(base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

00-18-30 (hex) Texas Instruments
001830 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

00-23-D4 (hex) Texas Instruments
0023D4 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

C0-E4-22 (hex) Texas Instruments
C0E422 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

D0-07-90 (hex) Texas Instruments
D00790 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

3C-7D-B1 (hex) Texas Instruments
3C7DB1 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

00-F8-71 (hex) Demant A/S
00F871 (base 16) Demant A/S
Kongebakken 9
Smørum 2765
DK

00-21-91 (hex) D-Link Corporation
002191 (base 16) D-Link Corporation
NO.289, Sinhu 3rd Rd.,
Neihu
District, Taipei City 114
TW

F4-FC-32 (hex) Texas Instruments
F4FC32 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

24-35-CC (hex) Zhongshan Scinan Internet of Things Co.,Ltd.
2435CC (base 16) Zhongshan Scinan Internet of Things Co.,Ltd.
15/F Bldg 1·Dezhong Plaza Torch Development Zone Zhongshan·Guangdong
ZhongShan GuangDong 528437
CN

2C-30-33 (hex) NETGEAR
2C3033 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

BC-44-34 (hex) Shenzhen TINNO Mobile Technology Corp.
BC4434 (base 16) Shenzhen TINNO Mobile Technology Corp.
Building, No.33, Xiandong Rd, Xili
Nanshan District, Shenzhen PRC 518053
CN

04-BF-6D (hex) Zyxel Communications Corporation
04BF6D (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

CC-46-D6 (hex) Cisco Systems, Inc
CC46D6 (base 16) Cisco Systems,
Inc
80 West Tasman Drive
San Jose CA 94568
US

00-41-D2 (hex) Cisco Systems, Inc
0041D2 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

0C-D7-46 (hex) Apple, Inc.
0CD746 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

60-A3-7D (hex) Apple, Inc.
60A37D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

68-DB-CA (hex) Apple, Inc.
68DBCA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

08-66-98 (hex) Apple, Inc.
086698 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

BC-54-36 (hex) Apple, Inc.
BC5436 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

04-4B-ED (hex) Apple, Inc.
044BED (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

6C-8D-C1 (hex) Apple, Inc.
6C8DC1 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA
95014
US

AC-F1-DF (hex) D-Link International
ACF1DF (base 16) D-Link International
1 International Business Park, #03-12, The Synergy
SINGAPORE 609917
SG

BC-F6-85 (hex) D-Link International
BCF685 (base 16) D-Link International
1 International Business Park, #03-12, The Synergy
SINGAPORE 609917
SG

78-54-2E (hex) D-Link International
78542E (base 16) D-Link International
1 Internal Business Park, #03-12.
SINGAPORE Singapore 609917
TW

C4-A8-1D (hex) D-Link International
C4A81D (base 16) D-Link International
1 Internal Business Park, #03-12,
SINGAPORE Singapore 609917
SG

F8-8F-CA (hex) Google, Inc.
F88FCA (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View 94043
US

2C-AB-00 (hex) HUAWEI TECHNOLOGIES CO.,LTD
2CAB00 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A8-CA-7B
(hex) HUAWEI TECHNOLOGIES CO.,LTD
A8CA7B (base 16) HUAWEI TECHNOLOGIES CO.,LTD

No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

88-B8-D0 (hex) Dongguan Koppo Electronic Co.,Ltd
88B8D0 (base 16) Dongguan Koppo Electronic Co.,Ltd
No.2, Third Road, Buxinji Industrial Area, Guanjingtou Village, Fenggang Town, Dongguan City, Guangdong Province, China
Dongguan 523705
CN

60-19-71 (hex) ARRIS Group, Inc.
601971 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

58-AC-78 (hex) Cisco Systems, Inc
58AC78 (base 16) Cisco Systems, Inc
80 West Tasman Dr.
San Jose CA 94568
US

FC-FF-AA (hex) IEEE Registration Authority
FCFFAA (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

38-98-D8 (hex) MERITECH CO.,LTD
3898D8 (base 16) MERITECH CO.,LTD
52-17 Sinjeon-Ro 41beon-gil
Giheung-gu, Yongin-City
Kyungki-do 446-599
KR

94-86-CD (hex) SEOUL ELECTRONICS&TELECOM
9486CD (base 16) SEOUL ELECTRONICS&TELECOM
709, Namkwangcentrex 440-4, Cheongcheon-dong,
Bupyeong-gu Incheon 403-030
KR

5C-57-1A (hex) ARRIS Group, Inc.
5C571A (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

E8-89-2C (hex) ARRIS Group, Inc.
E8892C (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

84-AC-FB (hex) Crouzet Automatismes
84ACFB (base 16) Crouzet Automatismes
2 rue du docteur Abel
Valence France 26902
FR

7C-BB-8A (hex) Nintendo Co., Ltd.
7CBB8A (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

38-97-D6 (hex) Hangzhou H3C Technologies Co., Limited
3897D6 (base 16) Hangzhou H3C Technologies Co., Limited
466 Changhe Road, Binjiang District
Hangzhou Zhejiang, P.R.China 310052
CN

1C-A7-70
(hex) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
1CA770 (base 16) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
Unit A 13-16/F,Skyworth Bldg., Gaoxin Ave.1.S.,Nanshan District
ShenZhen GuangDong 518057
CN

94-87-7C (hex) ARRIS Group, Inc.
94877C (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

40-70-09 (hex) ARRIS Group, Inc.
407009 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

08-3E-0C (hex) ARRIS Group, Inc.
083E0C (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

20-73-55 (hex) ARRIS Group, Inc.
207355 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

F8-ED-A5 (hex) ARRIS Group, Inc.
F8EDA5 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

54-65-DE (hex) ARRIS Group, Inc.
5465DE (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego
CA 92121
US

6C-CA-08 (hex) ARRIS Group, Inc.
6CCA08 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

D4-05-98 (hex) ARRIS Group, Inc.
D40598 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

E8-33-81 (hex) ARRIS Group, Inc.
E83381 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

8C-7F-3B (hex) ARRIS Group, Inc.
8C7F3B (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

3C-36-E4 (hex) ARRIS Group, Inc.
3C36E4 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121

US

1C-1B-68 (hex) ARRIS Group, Inc.
1C1B68 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

88-96-B6 (hex) Global Fire Equipment S.A.
8896B6 (base 16) Global Fire Equipment S.A.
Sitio dos Barrabés, Armazém Nave Y,
São Brás de Alportel Faro 8150-016
PT

00-0D-0B
(hex) BUFFALO.INC
000D0B (base 16) BUFFALO.INC
MELCO HI-TECH CENTER,
NAGOYA 457-8520
JP

00-1D-73 (hex) BUFFALO.INC
001D73 (base 16) BUFFALO.INC
15,Shibata Hondori 4-chome,
Nagoya Aichi Pref. 457-8520
JP

00-16-01 (hex) BUFFALO.INC
001601 (base 16) BUFFALO.INC
AKAMONDORI Bldg., 30-20,Ohsu 3-chome
Naka-ku,Nagoya Aichi Pref. 460-8315
JP

74-03-BD (hex) BUFFALO.INC
7403BD (base 16) BUFFALO.INC
AKAMONDORI Bldg, 30-20, Ohsu 3-chome,
Minami-ku, Nagoya Aichi Pref. 457-8520
JP

B8-FC-9A (hex) Le Shi Zhi Xin Electronic Technology (Tianjin) Limited
B8FC9A (base 16) Le Shi Zhi Xin Electronic Technology (Tianjin) Limited
,Le Shi Building, No.105 Yaojiayuan Road,Chaoyang District,Beijing,China
beijing beijing 100025
CN

CC-3E-5F (hex) Hewlett Packard
CC3E5F (base 16) Hewlett Packard
11445 Compaq Center Drive

Houston 77070
US

D8-9D-67 (hex) Hewlett Packard
D89D67
(base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

A4-5D-36 (hex) Hewlett Packard
A45D36 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

F0-92-1C (hex) Hewlett Packard
F0921C (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

A0-48-1C (hex) Hewlett Packard
A0481C (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

A0-1D-48 (hex) Hewlett Packard
A01D48 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

00-04-23 (hex) Intel Corporation
000423 (base 16) Intel Corporation
M/S: JF3-420
Hillsboro OR 97124
US

00-11-11 (hex) Intel Corporation
001111 (base 16) Intel Corporation
2111 NE 25th Avenue
Hillsboro OR 97124
US

00-13-02 (hex) Intel Corporate
001302 (base 16) Intel Corporate

Lot 8, Jalan Hi-tech 2/3
Kulim Kedah
09000
MY

40-A8-F0 (hex) Hewlett Packard
40A8F0 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

88-51-FB (hex) Hewlett Packard
8851FB (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

08-2E-5F (hex) Hewlett Packard
082E5F (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

E4-11-5B (hex) Hewlett Packard
E4115B (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

28-92-4A (hex) Hewlett Packard
28924A (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

00-14-C2 (hex) Hewlett Packard
0014C2 (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

00-80-5F (hex) Hewlett Packard
00805F (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

28-80-23 (hex) Hewlett Packard

288023 (base 16) Hewlett
Packard
11445 Compaq Center Drive
Houston 77070
US

78-0A-C7 (hex) Baofeng TV Co., Ltd.
780AC7 (base 16) Baofeng TV Co., Ltd.
Room 2D, Building 5D, Nanshan District Software Industry Base
ShenZhen GuangDong 518000
CN

00-18-FE (hex) Hewlett Packard
0018FE (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

00-1A-4B (hex) Hewlett Packard
001A4B (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

00-24-81 (hex) Hewlett Packard
002481 (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

00-0F-61 (hex) Hewlett Packard
000F61 (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

8C-AB-8E (hex) Shanghai Feixun Communication Co.,Ltd.
8CAB8E (base 16) Shanghai Feixun Communication Co.,Ltd.
No.3666,Sixian Rd.,Songjiang District,Shanghai,P.R.China
Shanghai Shanghai 201616
CN

90-60-F1
(hex) Apple, Inc.
9060F1 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A4-51-6F (hex) Microsoft Mobile Oy
A4516F (base 16) Microsoft Mobile Oy
Keilalahdentie 4
Espoo 02150
FI

FC-64-BA (hex) Xiaomi Communications Co Ltd
FC64BA (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

D4-0B-1A (hex) HTC Corporation
D40B1A (base 16) HTC Corporation
No. 23, Xinghua Rd.
Taoyuan County Taiwan 330
TW

94-53-30 (hex) Hon Hai Precision Ind. Co.,Ltd.
945330 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

4C-D0-8A (hex) HUMAX Co., Ltd.
4CD08A (base 16) HUMAX Co., Ltd.
HUMAX Village,216,Hwangsaeul-ro,
Seongnam-si Gyeonggi-do 463875
KR

CC-4E-EC (hex) HUMAX Co., Ltd.
CC4EEC (base 16) HUMAX Co.,
Ltd.
HUMAX Village, 216, Hwangsaeul-ro, Bundang-gu,
Seongnam-si Gyeonggi-do 463-875
KR

40-3D-EC (hex) HUMAX Co., Ltd.
403DEC (base 16) HUMAX Co., Ltd.
HUMAX Village, 216, Hwangsaeul-ro, Bundang-gu,
Seongnam-si Gyeonggi-do 463-875
KR

EC-4D-47 (hex) HUAWEI TECHNOLOGIES CO.,LTD
EC4D47 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808

CN

C4-40-44 (hex) RackTop Systems Inc.
C44044 (base 16) RackTop Systems Inc.
11840 W Market Pl Suite K
Fulton MD 20759
US

4C-A1-61 (hex) Rain Bird Corporation
4CA161 (base 16) Rain Bird Corporation
970 West Sierra Madre Ave.
AZUSA CA 91702
US

A0-8D-16 (hex) HUAWEI TECHNOLOGIES CO.,LTD
A08D16 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan Guangdong 523808
CN

00-24-2B (hex) Hon Hai Precision Ind. Co.,Ltd.
00242B
(base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

F8-D1-11 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
F8D111 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
1-6F, Building 2, Pingshandayuan Industrial, South Zone,
Shenzhen Guangdong 518000
CN

B0-48-7A (hex) TP-LINK TECHNOLOGIES CO.,LTD.
B0487A (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
1-6F, Building 2, Pingshandayuan Industrial, South Zone,
Shenzhen Guangdong 518000
CN

94-0C-6D (hex) TP-LINK TECHNOLOGIES CO.,LTD.
940C6D (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 7, Second Part, Honghualing Industrial Zone
Shenzhen Guangdong 518000
CN

54-27-58 (hex) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
542758 (base 16) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
No.19, Gaoxin 4th Road, Wuhan East Lake High-tech Zone, Wuhan

Wuhan Hubei 430000
CN

48-0F-CF
(hex) Hewlett Packard
480FCF (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

00-04-80 (hex) Brocade Communications Systems LLC
000480 (base 16) Brocade Communications Systems LLC
1320 Ridder Park Dr
San Jose CA 95131
US

00-0C-DB (hex) Brocade Communications Systems LLC
000CDB (base 16) Brocade Communications Systems LLC
1320 Ridder Park Dr
San Jose CA 95131
US

00-1B-ED (hex) Brocade Communications Systems LLC
001BED (base 16) Brocade Communications Systems LLC
1320 Ridder Park Dr
San Jose CA 95131
US

00-05-33 (hex) Brocade Communications Systems LLC
000533 (base 16) Brocade Communications Systems LLC
1320 Ridder Park Dr
San Jose CA 95131
US

00-60-69 (hex) Brocade Communications Systems LLC
006069 (base 16) Brocade Communications Systems LLC
1320 Ridder Park Dr
San Jose CA 95131
US

00-60-DF (hex) Brocade Communications
Systems LLC
0060DF (base 16) Brocade Communications Systems LLC
1320 Ridder Park Dr
San Jose CA 95131
US

00-00-88 (hex) Brocade Communications Systems LLC

000088 (base 16) Brocade Communications Systems LLC
1320 Ridder Park Dr
San Jose CA 95131
US

2C-08-8C (hex) HUMAX Co., Ltd.
2C088C (base 16) HUMAX Co., Ltd.
HUMAX Village, 216, Hwangsaeul-ro, Bu
Seongnam-si Gyeonggi-do 463-875
KR

1C-99-4C (hex) Murata Manufacturing Co., Ltd.
1C994C (base 16) Murata Manufacturing Co., Ltd.
1-10-1 Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

F0-27-65 (hex) Murata Manufacturing Co., Ltd.
F02765 (base 16) Murata Manufacturing Co., Ltd.
1-10-1 Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

5C-F8-A1 (hex) Murata Manufacturing Co., Ltd.
5CF8A1 (base 16) Murata Manufacturing Co., Ltd.
1-10-1 Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

44-A7-CF (hex) Murata Manufacturing
Co., Ltd.
44A7CF (base 16) Murata Manufacturing Co., Ltd.
2288, Oaza-Ohshinohara, Yasu-cho,
Yasu-gun Shiga 520-2393
JP

00-13-E0 (hex) Murata Manufacturing Co., Ltd.
0013E0 (base 16) Murata Manufacturing Co., Ltd.
2288, Oaza-Ohshinohara, Yasu-cho,
Yasu-gun Shiga 520-2393
JP

08-18-1A (hex) zte corporation
08181A (base 16) zte corporation
12/F ZTE Plaza,Keji Road South,Hi-Tech Industrial Park,Nanshan District,
Shenzhen GUANGDONG 518057
CN

00-1E-73 (hex) zte corporation
001E73 (base 16) zte corporation
12/F ZTE Plaza,Keji Road South,Hi-Tech Industrial Park,Nanshan District,
Shenzhen GUANGDONG 518057
CN

00-15-EB (hex) zte corporation
0015EB (base 16) zte corporation
5/F,A Wing,ZTE Plaza,Keji Road South,Hi-Tech Industrial Park,Nanshan District
Shenzhen 518057
US

00-1C-25 (hex) Hon Hai Precision Ind. Co.,Ltd.
001C25 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building
D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

00-19-7E (hex) Hon Hai Precision Ind. Co.,Ltd.
00197E (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

90-FB-A6 (hex) Hon Hai Precision Ind. Co.,Ltd.
90FBA6 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

44-37-E6 (hex) Hon Hai Precision Ind. Co.,Ltd.
4437E6 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

CC-AF-78 (hex) Hon Hai Precision Ind. Co.,Ltd.
CCAF78 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

F4-B7-E2 (hex) Hon Hai Precision Ind. Co.,Ltd.
F4B7E2 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

78-59-68
(hex) Hon Hai Precision Ind. Co.,Ltd.
785968 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

64-70-02 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
647002 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24 (floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park,Shennan Rd, Nanshan,
Shenzhen Guangdong Province, 518057
CN

10-FE-ED (hex) TP-LINK TECHNOLOGIES CO.,LTD.
10FEED (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24 (floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park
Shenzhen Guangdong 518057
CN

64-56-01 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
645601 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24 (floors 1,3,4,5) and 28 (floors1-4)
Shennan Rd, Nanshan Shenzhen,Guangdong Province 518057
CN

EC-CB-30 (hex) HUAWEI TECHNOLOGIES CO.,LTD
ECCB30 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2
Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F4-DC-F9 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F4DCF9 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

EC-26-CA (hex) TP-LINK TECHNOLOGIES CO.,LTD.
EC26CA (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24 (floors 1,3,4,5) and 28 (floors1-4)
Shennan Rd, Nanshan Shenzhen,Guangdong Province 518057
CN

94-71-AC (hex) TCT mobile ltd
9471AC (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District

Hui Zhou Guang Dong 516006
CN

00-66-4B (hex) HUAWEI TECHNOLOGIES CO.,LTD
00664B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

9C-C1-72 (hex) HUAWEI TECHNOLOGIES CO.,LTD
9CC172 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake
Technology Park
Dongguan 523808
CN

24-7F-3C (hex) HUAWEI TECHNOLOGIES CO.,LTD
247F3C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C8-D1-5E (hex) HUAWEI TECHNOLOGIES CO.,LTD
C8D15E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate,Shiyan Baoan District
Shenzhen Guangdong 518057
CN

F4-55-9C (hex) HUAWEI TECHNOLOGIES CO.,LTD
F4559C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate,Shiyan Baoan District
Shenzhen Guangdong 518057
CN

80-B6-86 (hex) HUAWEI TECHNOLOGIES CO.,LTD
80B686 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate,Shiyan Baoan District
Shenzhen Guangdong 518057
CN

10-C6-1F (hex) HUAWEI TECHNOLOGIES CO.,LTD
10C61F (base 16) HUAWEI
TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate,Shiyan Baoan District
Shenzhen Guangdong 518057
CN

CC-96-A0 (hex) HUAWEI TECHNOLOGIES CO.,LTD

CC96A0 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate,Shiyan Baoan District,
Shenzhen Guangdong 518108
CN

58-1F-28 (hex) HUAWEI TECHNOLOGIES CO.,LTD
581F28 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C0-70-09 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C07009 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

80-38-BC (hex) HUAWEI TECHNOLOGIES CO.,LTD
8038BC (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C4-07-2F (hex) HUAWEI TECHNOLOGIES CO.,LTD
C4072F
(base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F4-8E-92 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F48E92 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

24-1F-A0 (hex) HUAWEI TECHNOLOGIES CO.,LTD
241FA0 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

70-54-F5 (hex) HUAWEI TECHNOLOGIES CO.,LTD
7054F5 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base,Bantian,Longgang,Shenzhen
ShenZhen GuangDong 518129
CN

90-17-AC (hex) HUAWEI TECHNOLOGIES CO.,LTD
9017AC (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base
Shenzhen Guangdong 518129
CN

18-C5-8A (hex) HUAWEI TECHNOLOGIES CO.,LTD
18C58A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial
Base
Shenzhen Guangdong 518129
CN

34-CD-BE (hex) HUAWEI TECHNOLOGIES CO.,LTD
34CDBE (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate
Shenzhen GuangDong 518057
CN

D8-49-0B (hex) HUAWEI TECHNOLOGIES CO.,LTD
D8490B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base,Bantian,Longgang,Shenzhen
Shenzhen 518129
CN

C0-57-BC (hex) Avaya Inc
C057BC (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

64-A7-DD (hex) Avaya Inc
64A7DD (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

A4-25-1B (hex) Avaya Inc
A4251B (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

64-6A-52 (hex) Avaya Inc
646A52 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

F8-01-13 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F80113 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building
17,Nangang Industrial Park
Shenzhen Guangdong 518057
CN

A4-99-47 (hex) HUAWEI TECHNOLOGIES CO.,LTD
A49947 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park,
Shenzhen Guangdong 518057
CN

30-87-30 (hex) HUAWEI TECHNOLOGIES CO.,LTD
308730 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate,Shiyan Baoan District,
Shenzhen Guangdong 518108
CN

44-32-2A (hex) Avaya Inc
44322A (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

70-38-EE (hex) Avaya Inc
7038EE (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

70-30-18 (hex) Avaya Inc
703018 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

9C-28-EF (hex) HUAWEI TECHNOLOGIES CO.,LTD
9C28EF (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base,Bantian,Longgang,Shenzhen
ShenZhen
GuangDong 518129
CN

00-60-83 (hex) Cisco Systems, Inc
006083 (base 16) Cisco Systems, Inc
170 WEST TASMAN DRIVE

SAN JOSE CA 95134-1706
US

00-60-09 (hex) Cisco Systems, Inc
006009 (base 16) Cisco Systems, Inc
170 WEST TASMAN DRIVE
SAN JOSE CA 95134-1706
US

00-06-7C (hex) Cisco Systems, Inc
00067C (base 16) Cisco Systems, Inc
170 WEST TASMAN DRIVE
SAN JOSE CA 95134-1706
US

00-E0-F7 (hex) Cisco Systems, Inc
00E0F7 (base 16) Cisco Systems, Inc
170 WEST TASMAN DRIVE
SAN JOSE CA 95134-1706
US

00-50-73 (hex) Cisco Systems, Inc
005073 (base 16) Cisco Systems, Inc
170 W. TASMAN DR.
SAN JOSE CA 95134-1706
US

00-90-0C (hex) Cisco Systems, Inc
00900C (base 16) Cisco Systems, Inc
170 W. TASMAN DR.
SAN JOSE CA 95134-1706
US

00-90-5F (hex) Cisco Systems, Inc
00905F (base 16) Cisco Systems, Inc
170 W. TASMAN DR.
SAN JOSE CA 95134-1706
US

00-10-0B
(hex) Cisco Systems, Inc
00100B (base 16) Cisco Systems, Inc
170 W. TASMAN DR.
SAN JOSE CA 95134-1706
US

00-17-3B (hex) Cisco Systems, Inc
00173B (base 16) Cisco Systems, Inc

170 West Tasman Dr.
San Jose CA 95134-1706
US

F0-B4-29 (hex) Xiaomi Communications Co Ltd
F0B429 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

00-10-7B (hex) Cisco Systems, Inc
00107B (base 16) Cisco Systems, Inc
170 W.TASMAN DR.-SJA-2
SAN JOSE CA 95134-1706
US

00-50-E2 (hex) Cisco Systems, Inc
0050E2 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

08-00-28 (hex) Texas Instruments
080028 (base 16) Texas Instruments
12500 TI Boulevard
Dallas 75243
US

40-5F-C2 (hex) Texas Instruments
405FC2 (base 16) Texas Instruments
12500 TI Boulevard
Dallas
TX 75243
US

20-CD-39 (hex) Texas Instruments
20CD39 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

B4-99-4C (hex) Texas Instruments
B4994C (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

E4-D3-F1 (hex) Cisco Systems, Inc

E4D3F1 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

84-78-AC (hex) Cisco Systems, Inc
8478AC (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

04-DA-D2 (hex) Cisco Systems, Inc
04DAD2 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

F0-29-29 (hex) Cisco Systems, Inc
F02929 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

20-BB-C0 (hex) Cisco Systems, Inc
20BBC0 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

4C-4E-35 (hex) Cisco Systems, Inc
4C4E35
(base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

68-DF-DD (hex) Xiaomi Communications Co Ltd
68DFDD (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

98-FA-E3 (hex) Xiaomi Communications Co Ltd
98FAE3 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

00-90-A6 (hex) Cisco Systems, Inc
0090A6 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-90-86 (hex) Cisco Systems, Inc
009086 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-50-80 (hex) Cisco Systems, Inc
005080 (base 16) Cisco Systems, Inc
170 W. TASMAN DR.
SAN JOSE CA 95134-1706
US

EC-24-B8 (hex) Texas Instruments
EC24B8 (base 16) Texas Instruments
12500
TI BLVD
Dallas 75243
US

7C-EC-79 (hex) Texas Instruments
7CEC79 (base 16) Texas Instruments
12500 TI BLVD
Dallas 75243
US

68-9E-19 (hex) Texas Instruments
689E19 (base 16) Texas Instruments
12500 TI BLVD
Dallas 75243
US

E0-E5-CF (hex) Texas Instruments
E0E5CF (base 16) Texas Instruments
12500 TI BLVD
Dallas 75243
US

00-1B-D7 (hex) Cisco SPVTG
001BD7 (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

00-24-8C (hex) ASUSTek COMPUTER INC.
00248C (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd.,Peitou,Taipei 112 ,Taiwan
Taipei Taiwan 112
TW

00-23-54 (hex) ASUSTek COMPUTER INC.
002354 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd.,Peitou,Taipei 112 ,Taiwan
Taipei Taiwan 112
TW

1C-87-2C (hex) ASUSTek COMPUTER INC.
1C872C (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd.., Peitou,
Taipei 112
TW

60-18-2E
(hex) ShenZhen Protruly Electronic Ltd co.
60182E (base 16) ShenZhen Protruly Electronic Ltd co.
ShenNan Road 1004
Shen Zhen GuangDong 518000
CN

C4-14-3C (hex) Cisco Systems, Inc
C4143C (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

3C-08-F6 (hex) Cisco Systems, Inc
3C08F6 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

78-BA-F9 (hex) Cisco Systems, Inc
78BAF9 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

00-22-CE (hex) Cisco SPVTG
0022CE (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30042

US

00-0F-66 (hex) Cisco-Linksys, LLC
000F66 (base 16) Cisco-Linksys, LLC
121 Theory Dr.
Irvine CA 92612
US

00-1E-8C (hex) ASUSTek COMPUTER INC.
001E8C (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd.,Peitou
Taipei 112
TW

00-13-D4 (hex) ASUSTek COMPUTER
INC.
0013D4 (base 16) ASUSTek COMPUTER INC.
No.5 Shing Yeh Street
Tao Yuan Hsien 333
TW

20-CF-30 (hex) ASUSTek COMPUTER INC.
20CF30 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd.,Peitou,Taipei 112 ,Taiwan
Taipei Taiwan 112
TW

50-1C-BF (hex) Cisco Systems, Inc
501CBF (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

B0-00-B4 (hex) Cisco Systems, Inc
B000B4 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

54-4A-00 (hex) Cisco Systems, Inc
544A00 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

00-E1-6D (hex) Cisco Systems, Inc
00E16D (base 16) Cisco Systems, Inc
170 West Tasman Drive

San Jose CA 95134
US

BC-16-65 (hex) Cisco Systems, Inc
BC1665 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

F8-72-EA (hex) Cisco Systems, Inc
F872EA
(base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

D0-C7-89 (hex) Cisco Systems, Inc
D0C789 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

F8-4F-57 (hex) Cisco Systems, Inc
F84F57 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

7C-69-F6 (hex) Cisco Systems, Inc
7C69F6 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

78-DA-6E (hex) Cisco Systems, Inc
78DA6E (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

E0-D1-73 (hex) Cisco Systems, Inc
E0D173 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

E0-89-9D (hex) Cisco Systems, Inc
E0899D (base 16) Cisco Systems, Inc

170 West Tasman Drive
San Jose CA 95134
US

C4-72-95 (hex) Cisco Systems, Inc
C47295 (base 16) Cisco Systems, Inc
170 West Tasman
Drive
San Jose CA 95134
US

24-37-4C (hex) Cisco SPVTG
24374C (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

F4-5F-D4 (hex) Cisco SPVTG
F45FD4 (base 16) Cisco SPVTG
5030 Sugarloaf Pkwy
Lawrenceville GA 30044
US

2C-AB-A4 (hex) Cisco SPVTG
2CABA4 (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

1C-6E-4C (hex) Logistic Service & Engineering Co.,Ltd
1C6E4C (base 16) Logistic Service & Engineering Co.,Ltd
Unit N,9/F,Valiant Ind. Ctr.,2-12 Au Pui Wan St.,Fotan,Shatin,N.T.,Hong Kong
Hong Kong 00000
HK

B8-78-2E (hex) Apple, Inc.
B8782E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-05-02 (hex) Apple, Inc.
000502 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

34-BD-C8 (hex) Cisco Systems, Inc

34BDC8 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose
CA 95134
US

DC-EB-94 (hex) Cisco Systems, Inc
DCEB94 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

84-B5-17 (hex) Cisco Systems, Inc
84B517 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

18-8B-9D (hex) Cisco Systems, Inc
188B9D (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

E4-AA-5D (hex) Cisco Systems, Inc
E4AA5D (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

98-03-D8 (hex) Apple, Inc.
9803D8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D8-9E-3F (hex) Apple, Inc.
D89E3F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B8-C7-5D (hex) Apple, Inc.
B8C75D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

0C-74-C2 (hex) Apple, Inc.
0C74C2 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino
CA 95014
US

90-84-0D (hex) Apple, Inc.
90840D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E8-06-88 (hex) Apple, Inc.
E80688 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

7C-C5-37 (hex) Apple, Inc.
7CC537 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

78-CA-39 (hex) Apple, Inc.
78CA39 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

18-E7-F4 (hex) Apple, Inc.
18E7F4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

70-CD-60 (hex) Apple, Inc.
70CD60 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

8C-7B-9D (hex) Apple, Inc.
8C7B9D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-22-41 (hex) Apple, Inc.
002241 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-26-4A (hex) Apple, Inc.
00264A
(base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

04-1E-64 (hex) Apple, Inc.
041E64 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-0A-95 (hex) Apple, Inc.
000A95 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-11-24 (hex) Apple, Inc.
001124 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

CC-78-5F (hex) Apple, Inc.
CC785F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

88-CB-87 (hex) Apple, Inc.
88CB87 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

68-5B-35 (hex) Apple, Inc.
685B35 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

2C-B4-3A (hex) Apple, Inc.
2CB43A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

68-9C-70 (hex) Apple, Inc.
689C70 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino
CA 95014
US

38-0F-4A (hex) Apple, Inc.
380F4A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

44-4C-0C (hex) Apple, Inc.
444C0C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B4-F0-AB (hex) Apple, Inc.
B4F0AB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

80-92-9F (hex) Apple, Inc.
80929F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

9C-04-EB (hex) Apple, Inc.
9C04EB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

5C-96-9D (hex) Apple, Inc.
5C969D (base 16) Apple, Inc.
1 Infinite Loop

Cupertino CA 95014
US

30-10-E4 (hex) Apple, Inc.
3010E4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A8-86-DD (hex) Apple, Inc.
A886DD (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-C1-F1 (hex) Apple, Inc.
F0C1F1
(base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

84-38-35 (hex) Apple, Inc.
843835 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

8C-00-6D (hex) Apple, Inc.
8C006D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

5C-95-AE (hex) Apple, Inc.
5C95AE (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

84-29-99 (hex) Apple, Inc.
842999 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

74-E2-F5 (hex) Apple, Inc.
74E2F5 (base 16) Apple, Inc.

1 Infinite Loop
Cupertino CA 95014
US

E0-C9-7A (hex) Apple, Inc.
E0C97A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A8-96-8A (hex) Apple, Inc.
A8968A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F4-1B-A1 (hex) Apple, Inc.
F41BA1 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

04-15-52
(hex) Apple, Inc.
041552 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

68-A8-6D (hex) Apple, Inc.
68A86D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

7C-C3-A1 (hex) Apple, Inc.
7CC3A1 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

70-73-CB (hex) Apple, Inc.
7073CB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

90-72-40 (hex) Apple, Inc.

907240 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F8-27-93 (hex) Apple, Inc.
F82793 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

40-30-04 (hex) Apple, Inc.
403004 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

60-C5-47 (hex) Apple, Inc.
60C547 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

EC-85-2F (hex) Apple, Inc.
EC852F (base 16) Apple,
Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-F4-B9 (hex) Apple, Inc.
00F4B9 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

3C-AB-8E (hex) Apple, Inc.
3CAB8E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

60-92-17 (hex) Apple, Inc.
609217 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

84-B1-53 (hex) Apple, Inc.
84B153 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E0-66-78 (hex) Apple, Inc.
E06678 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

48-D7-05 (hex) Apple, Inc.
48D705 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

68-D9-3C (hex) Apple, Inc.
68D93C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-F7-6F (hex) Apple, Inc.
00F76F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C8-85-50
(hex) Apple, Inc.
C88550 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E0-B5-2D (hex) Apple, Inc.
E0B52D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A4-31-35 (hex) Apple, Inc.
A43135 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

70-14-A6 (hex) Apple, Inc.
7014A6 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

98-5A-EB (hex) Apple, Inc.
985AEB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

78-D7-5F (hex) Apple, Inc.
78D75F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

4C-7C-5F (hex) Apple, Inc.
4C7C5F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

68-64-4B (hex) Apple, Inc.
68644B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C8-1E-E7 (hex) Apple, Inc.
C81EE7 (base 16) Apple, Inc.
1
Infinite Loop
Cupertino CA 95014
US

6C-94-F8 (hex) Apple, Inc.
6C94F8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

90-8D-6C (hex) Apple, Inc.
908D6C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

B8-09-8A (hex) Apple, Inc.
B8098A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C0-CE-CD (hex) Apple, Inc.
C0CECD (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

60-D9-C7 (hex) Apple, Inc.
60D9C7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F4-4B-2A (hex) Cisco SPVTG
F44B2A (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

C4-AD-F1 (hex) GOPEACE Inc.
C4ADF1 (base 16) GOPEACE Inc.
Woolim Bldg B-916, 14 Sagimakgol-ro 45beon-gil, Jungwon-gu
Seongnam Gyeonggi 13209
KR

58-FC-73 (hex) Arria Live Media, Inc.
58FC73 (base 16) Arria
Live Media, Inc.
2388 NE Lindsey Drive
Hillsboro OR 97124
US

0C-1A-10 (hex) Acoustic Stream
0C1A10 (base 16) Acoustic Stream
3213 W Wheeler Street
Seattle WA 98199
US

E8-13-63 (hex) Comstock RD, Inc.
E81363 (base 16) Comstock RD, Inc.
4415 Mason St

Ashton ID 83406
US

74-18-65 (hex) Shanghai DareGlobal Technologies Co.,Ltd
741865 (base 16) Shanghai DareGlobal Technologies Co.,Ltd
22F NO.1555 Kongjiang RD
Shanghai 200092
CN

A4-B8-05 (hex) Apple, Inc.
A4B805 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

90-C9-9B (hex) Tesorion Nederland B.V.
90C99B (base 16) Tesorion Nederland B.V.
Auke Vleerstraat 6-D
Enschede 7521 PG
NL

5C-AD-CF (hex) Apple, Inc.
5CADCF (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

BC-6C-21 (hex) Apple, Inc.
BC6C21 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C4-EF-70
(hex) Home Skinovations
C4EF70 (base 16) Home Skinovations
Tavor building POB 533
Yokneam Israel 2069206
IL

74-6F-19 (hex) ICARVISIONS (SHENZHEN) TECHNOLOGY CO., LTD.
746F19 (base 16) ICARVISIONS (SHENZHEN) TECHNOLOGY CO., LTD.
6F-1 ,Block D,Building 2#, Hongwan XinCun Ming JinHai Industry Area, Gushu Community, Xixiang Street, BaoAn District
Shenzhen Guangdong 518000
CN

7C-5A-67 (hex) JNC Systems, Inc.

7C5A67 (base 16) JNC Systems, Inc.
#611, Gyeonggi Venture Yeonsung University
Anyang-si Gyeonggi-do 430731
KR

5C-E3-B6 (hex) Fiberhome Telecommunication Technologies Co.,LTD
5CE3B6 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

A0-F9-E0 (hex) VIVATEL COMPANY LIMITED
A0F9E0 (base 16) VIVATEL COMPANY LIMITED
36/F,Tower Two
Causeway Bay Causeway Bay 999077
HK

2C-AE-2B (hex) Samsung Electronics Co.,Ltd
2CAE2B
(base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C8-69-CD (hex) Apple, Inc.
C869CD (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F8-C3-72 (hex) TSUZUKI DENKI
F8C372 (base 16) TSUZUKI DENKI
shinbashi 6-19-15
mainato-ku tokyo-to 105-8665
JP

D4-72-08 (hex) Bragi GmbH
D47208 (base 16) Bragi GmbH
Herzog-Heinrich-Strasse 20
Munich Bavaria 80336
DE

A4-A6-A9 (hex) Private
A4A6A9 (base 16) Private

8C-10-D4 (hex) Sagemcom Broadband SAS
8C10D4 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur

Rueil Malmaison Cedex hauts de seine 92848
FR

F8-98-B9 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F898B9 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

5C-B5-59 (hex) CNEX Labs
5CB559 (base 16) CNEX Labs
2880 Stevens Creek Blvd
San
Jose CA 95128
US

B8-3A-9D (hex) Alarm.com
B83A9D (base 16) Alarm.com
8281 Greensboro Dr., Suite 100
Tysons VA 22102
US

F4-0E-22 (hex) Samsung Electronics Co.,Ltd
F40E22 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

3C-7A-8A (hex) ARRIS Group, Inc.
3C7A8A (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

C0-11-73 (hex) Samsung Electronics Co.,Ltd
C01173 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

78-53-F2 (hex) Roxton Systems Ltd.
7853F2 (base 16) Roxton Systems Ltd.
Floor 4, premise 1, room 6, Ostapovsky proezd,15k2
Moscow Moscow 109316
RU

6C-EB-B2 (hex) Dongguan Sen DongLv Electronics Co.,Ltd
6CEBB2 (base 16) Dongguan Sen DongLv Electronics Co.,Ltd

Nanjiang RD 111st,Daning
Dongguan Guangdong 523930

68-58-C5 (hex) ZF TRW Automotive
6858C5 (base
16) ZF TRW Automotive
12001 Tech Center Drive
Livonia MI 48150
US

BC-E6-3F (hex) Samsung Electronics Co.,Ltd
BCE63F (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

7C-91-22 (hex) Samsung Electronics Co.,Ltd
7C9122 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

AC-BC-32 (hex) Apple, Inc.
ACBC32 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

54-4E-90 (hex) Apple, Inc.
544E90 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

88-1B-99 (hex) SHENZHEN XIN FEI JIA ELECTRONIC CO. LTD.
881B99 (base 16) SHENZHEN XIN FEI JIA ELECTRONIC CO. LTD.
#4 BULIDING, HIGH TECH INDUSTRIAL PARK, HE PING COMMUNITY
GUANGDONG N/A 518000
CN

08-0A-4E (hex) Planet Bingo® — 3rd Rock Gaming®
080A4E (base 16) Planet Bingo® — 3rd Rock Gaming®
75190 Gerald Ford Dr.
Palm Desert CA
92211
US

B4-9D-0B (hex) BQ
B49D0B (base 16) BQ
Sofia, 10
Las Rozas de Madrid Madrid 28230
ES

3C-8C-F8 (hex) TRENDnet, Inc.
3C8CF8 (base 16) TRENDnet, Inc.
20675 Manhattan Place
Torrance CA 90501
US

A8-72-85 (hex) IDT, INC.
A87285 (base 16) IDT, INC.
6024 SILVER CREEK VALLEY RD
SAN JOSE CA 95138
US

78-05-41 (hex) Queclink Wireless Solutions Co., Ltd
780541 (base 16) Queclink Wireless Solutions Co., Ltd
Room 501, Building 9, No.99 Tianzhou Road
shanghai shanghai 200233
CN

04-41-69 (hex) GoPro
044169 (base 16) GoPro
3000 Clearview Way
San Mateo CA 94402
US

C0-2D-EE (hex) Cuff
C02DEE (base 16) Cuff
232 Townsend St
San Francisco CA 94107
US

90-23-EC (hex) Availink, Inc.
9023EC (base 16) Availink, Inc.
Scotia Centre P.O. Box 268GT,Grand Cayman, Cayman Islands
Grand Cayman Grand Cayman 999159
KY

44-1C-A8 (hex) Hon Hai Precision
Ind. Co.,Ltd.
441CA8 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

34-0C-ED (hex) Moduel AB
340CED (base 16) Moduel AB
Hudiksvallsgatan 8
Stockholm Stockholm 11330
SE

9C-A6-9D (hex) Whaley Technology Co.Ltd
9CA69D (base 16) Whaley Technology Co.Ltd
Floor 3, Building E, No666 Shengxia Road
Shanghai 201203
CN

58-53-C0 (hex) Beijing Guang Runtong Technology Development Company co.,Ltd
5853C0 (base 16) Beijing Guang Runtong Technology Development Company co.,Ltd
Beijing city Haidian District North Third Ring Road 48, Beijing science and Technology Exhibition Center 1 building B block, room 18H
Beijing Bejing 100000
CN

24-72-60 (hex) IOTTECH Corp
247260 (base 16) IOTTECH Corp
4F.-1, No.55, Dongguang Rd., East Dist., Hsinchu City 300, TAIWAN ,REPUBLIC OF CHINA
Hsinchu TAIWAN 300
TW

E8-F2-E2 (hex) LG Innotek
E8F2E2
(base 16) LG Innotek
26, Hanamsandan 5beon-ro
Gwangju Gwangsan-gu 506-731
KR

2C-A5-39 (hex) Parallel Wireless, Inc
2CA539 (base 16) Parallel Wireless, Inc
1 Tara Blvd
Nashua NH 03062
US

24-5B-F0 (hex) Liteon, Inc.
245BF0 (base 16) Liteon, Inc.
3001 Summit Avenue, Suite 400
Plano Tx 75074
US

CC-79-4A (hex) BLU Products Inc.
CC794A (base 16) BLU Products Inc.
Tower 4, Excellence Century Center

Shenzhen Guangdong 518000
CN

B4-29-3D (hex) Shenzhen Urovo Technology Co.,Ltd.
B4293D (base 16) Shenzhen Urovo Technology Co.,Ltd.
A701-710, Zondy Cyber Building, Keyuan South Road,
Nanshan District, Shenzhen Guangzhou 518057
CN

54-FF-82 (hex) Davit Solution co.
54FF82 (base 16) Davit Solution co.
103-301,Geudaegapremier,21 Deagyeong-Daero 1484beon-Gil
Suwon-Si Gyeonggi-Do KS002
KR

28-27-BF (hex) Samsung Electronics Co.,Ltd
2827BF (base 16) Samsung Electronics
Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F4-E9-26 (hex) Tianjin Zanpu Technology Inc.
F4E926 (base 16) Tianjin Zanpu Technology Inc.
3F Haiyi International Center, Huayuan Industrial Park, Tianjin
Tianjin Tianjin 300384
CN

90-6F-18 (hex) Private
906F18 (base 16) Private

98-CB-27 (hex) Galore Networks Pvt. Ltd.
98CB27 (base 16) Galore Networks Pvt. Ltd.
#D1104, Salarpuria Serenity, 41A,
Bangalore Karnataka 560068
IN

94-D8-59 (hex) TCT mobile ltd
94D859 (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

2C-FC-E4 (hex) CTEK Sweden AB
2CFCE4 (base 16) CTEK Sweden AB
Rostugnsvägen 3
Vikmanshyttan Dalarna SE-776 70
SE

E8-55-B4 (hex) SAI Technology Inc.
E855B4 (base 16) SAI Technology Inc.
2376 Walsh Avenue
Santa Clara California 95051
US

50-DF-95 (hex) Lytx
50DF95 (base 16) Lytx
9785
Towne Centre Drive
San Diego CA 92121
US

30-0C-23 (hex) zte corporation
300C23 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

C4-7D-46 (hex) FUJITSU LIMITED
C47D46 (base 16) FUJITSU LIMITED
403, Kosugi-cho 1-chome, Nakahara-ku
Kawasaki Kanagawa 211-0063
JP

C0-B7-13 (hex) Beijing Xiaoyuer Technology Co. Ltd.
C0B713 (base 16) Beijing Xiaoyuer Technology Co. Ltd.
No.5 Guangshunbei Rd. Rm# B129
Beijing Beijing 100102
CN

10-05-B1 (hex) ARRIS Group, Inc.
1005B1 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

18-8E-F9 (hex) G2C Co. Ltd.
188EF9 (base 16) G2C Co. Ltd.
1004,1591-9, K-Center Kwanyang Dong
Anyang Si Kyeonggido 431-815
KR

F4-B8-A7 (hex) zte corporation
F4B8A7 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen

guangdong 518057
CN

20-63-5F (hex) Abeeway
20635F (base 16) Abeeway
29 chemin du vieux chêne
meylan Isere 38240
FR

08-3A-5C (hex) Junilab, Inc.
083A5C (base 16) Junilab, Inc.
#205 107 Gyounggyo-Ro, Yeongtong-Gu, Suwon
Suwon Gyeonggi-Do 443-766
KR

6C-E0-1E (hex) Modcam AB
6CE01E (base 16) Modcam AB
Bredgatan 4
Malmö Skåne 21130
SE

74-85-2A (hex) PEGATRON CORPORATION
74852A (base 16) PEGATRON CORPORATION
5F No. 76, Ligong St., Beitou District
Taipei City Taiwan 112
TW

4C-EE-B0 (hex) SHC Netzwerktechnik GmbH
4CEEB0 (base 16) SHC Netzwerktechnik GmbH
Ludwigstrasse 33-37
Frankfurt am Main Hessen 60327
DE

80-01-84 (hex) HTC Corporation
800184 (base 16) HTC Corporation
No. 23, Xinghua Rd., Taoyuan City
Taoyuan County Taiwan 330
TW

B8-B3-DC (hex) DEREK (SHAOGUAN) LIMITED
B8B3DC (base 16) DEREK (SHAOGUAN) LIMITED
Gaojiling, Taiping Town,
Shao
Guan Guang Dong 512500
CN

70-2A-7D (hex) EpSpot AB
702A7D (base 16) EpSpot AB

Aluddsparken 7D
Stockholm 11265
SE

4C-AE-31 (hex) ShengHai Electronics (Shenzhen) Ltd
4CAE31 (base 16) ShengHai Electronics (Shenzhen) Ltd
Block 17&18,Hui Ming Ying Industry,YanChuan,SongGang
Shenzhen Guangdong 518105
CN

F4-E9-D4 (hex) QLogic Corporation
F4E9D4 (base 16) QLogic Corporation
26650 Aliso Viejo Parkway
Aliso Viejo California
US

44-F4-36 (hex) zte corporation
44F436 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

44-C6-9B (hex) Wuhan Feng Tian Information Network CO.,LTD
44C69B (base 16) Wuhan Feng Tian Information Network CO.,LTD
Room 1002,10th Floor,Oversea talent Building A,
Wuhan City Hubei Province 430074
CN

4C-B7-6D (hex) Novi Security
4CB76D (base 16) Novi Security
1434 E 820 N
Orem
UT 84097
US

18-5D-9A (hex) BobjGear LLC
185D9A (base 16) BobjGear LLC
4327 S Highway 27 # 504
Clermont Florida 34711
US

C0-25-67 (hex) Nexxt Solutions
C02567 (base 16) Nexxt Solutions
3505 NW 107TH AVENUE
MIAMI FLORIDA 33178
US

FC-E3-3C (hex) HUAWEI TECHNOLOGIES CO.,LTD

FCE33C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

9C-B6-D0 (hex) Rivet Networks
9CB6D0 (base 16) Rivet Networks
11940 Jollyville Rd
Austin tx 78759
US

40-B8-9A (hex) Hon Hai Precision Ind. Co.,Ltd.
40B89A (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

1C-B7-2C (hex) ASUSTek COMPUTER INC.
1CB72C (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

40-B8-37 (hex) Sony Corporation
40B837 (base
16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

60-9C-9F (hex) Brocade Communications Systems LLC
609C9F (base 16) Brocade Communications Systems LLC
1320 Ridder Park Dr
San Jose CA 95131
US

A8-82-7F (hex) CIBN Oriental Network(Beijing) CO.,Ltd
A8827F (base 16) CIBN Oriental Network(Beijing) CO.,Ltd
Floor 18B,Block B(International Resources Building),No.18B(Wanda Plaza),Shijingshan Road,Shijingshan,Beijing(100043)
Beijing Beijing 100043
CN

D0-48-F3 (hex) DATTUS Inc
D048F3 (base 16) DATTUS Inc
3000 Kent Ave
W Lafayette IN 47906
US

B0-08-BF (hex) Vital Connect, Inc.
B008BF (base 16) Vital Connect, Inc.
900 E HAMILTON AVE STE 500
CAMPBELL CA 95008-0667
US

E0-76-D0 (hex) AMPAK Technology, Inc.
E076D0 (base 16) AMPAK Technology, Inc.
No.1,Jen Ai Road
Hsinchu Hsinchu 30352
TW

D4-52-2A (hex) TangoWiFi.com
D4522A (base 16) TangoWiFi.com
TangoWiFi
Team
Beijing Beijing 100022
CN

B8-C3-BF (hex) Henan Chengshi NetWork Technology Co.Ltd
B8C3BF (base 16) Henan Chengshi NetWork Technology Co.Ltd
Ruhe Road SouthKunlun Road WestZhongyuan DistrictZhengzhouHenanP.R.China450007
Zhengzhou Henan 450007
CN

44-96-2B (hex) Aidon Oy
44962B (base 16) Aidon Oy
Piippukatu 11
Jyvaskyla Jyvaskyla 40100
FI

E8-07-BF (hex) SHENZHEN BOOMTECH INDUSTRY CO.,LTD
E807BF (base 16) SHENZHEN BOOMTECH INDUSTRY CO.,LTD
Floor 6 East, Bldg 6, Yusheng Industrial Area, Xixiang, Bao'an District
Shenzhen Guangdong 518000
CN

84-F1-29 (hex) Metrascale Inc.
84F129 (base 16) Metrascale Inc.
400 Liberty Ave.
Brooklyn NY 11207
US

B8-9A-CD (hex) ELITE OPTOELECTRONIC(ASIA)CO.,LTD
B89ACD (base 16) ELITE OPTOELECTRONIC(ASIA)CO.,LTD
A9 jin Fu 1 Road,Tangchun lndustrial zone,Liaobu Town,Dongguan City,Guangdong Province
Liaobu dongguan /guangdong

523400
CN

D4-68-BA (hex) Shenzhen Sundray Technologies Company Limited
D468BA (base 16) Shenzhen Sundray Technologies Company Limited
6th Floor,Block A1, Nanshan iPark,
Nanshan District, Shenzhen 518055 Guangdong
CN

F0-1E-34 (hex) ORICO Technologies Co., Ltd
F01E34 (base 16) ORICO Technologies Co., Ltd
F-9, Block14A, Zhonghaixin Science &Technology Zone
ShenZhen Guangdong 518116
CN

DC-E0-26 (hex) Patrol Tag, Inc
DCE026 (base 16) Patrol Tag, Inc
2800 Western Ave
Seattle WA 98121
US

B4-05-66 (hex) SP Best Corporation Co., LTD.
B40566 (base 16) SP Best Corporation Co., LTD.
555/25 B-Avenue, Sukhaphibal 5 Road
Saimai Bangkok 10220
TH

1C-C7-2D (hex) Shenzhen Huapu Digital CO.,Ltd
1CC72D (base 16) Shenzhen Huapu Digital CO.,Ltd
R2305 Malata Technology Building,NO.9998 Shennan Boulevard, Shenzhen,P.R.China 518057
Shenzhen Guangzhou 518057
CN

8C-BF-A6 (hex) Samsung Electronics
Co.,Ltd
8CBFA6 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

08-62-66 (hex) ASUSTek COMPUTER INC.
086266 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

9C-30-66 (hex) RWE Effizienz GmbH
9C3066 (base 16) RWE Effizienz GmbH

Flamingoweg 1
Dortmund NRW 44139
DE

70-01-36 (hex) FATEK Automation Corporation
700136 (base 16) FATEK Automation Corporation
5F., NO.300, SEC. 1, NEIHU RD
Taipei City 114
TW

FC-A2-2A (hex) PT. Callysta Multi Engineering
FCA22A (base 16) PT. Callysta Multi Engineering
Jl. Taman Cibeunying No. 2
Bandung Jawa Barat 40114
ID

A4-56-02 (hex) fenglian Technology Co.,Ltd.
A45602 (base 16) fenglian Technology Co.,Ltd.
302 R D Building Oriental Cyberport HighTech Industrial Park Nanshan Shenzhen China
Shenzhen,Guangdong Province 518057
CN

C8-C5-0E (hex) Shenzhen
Primestone Network Technologies.Co., Ltd.
C8C50E (base 16) Shenzhen Primestone Network Technologies.Co., Ltd.
Room 705,Complex Building, Tsinghua Hi-Tech Park
Shenzhen Guangdong 518057
CN

D0-6A-1F (hex) BSE CO.,LTD.
D06A1F (base 16) BSE CO.,LTD.
626-3, Gozan-dong, Namdong-ku
Incheon, 405-817
KR

18-BD-AD (hex) L-TECH CORPORATION
18BDAD (base 16) L-TECH CORPORATION
201, Moonbon-dong
Ilsandong-gu Gyeonggi-do 410-560
KR

60-E6-BC (hex) Sino-Telecom Technology Co.,Ltd.
60E6BC (base 16) Sino-Telecom Technology Co.,Ltd.
6F, Building 2, No.115, Lane 1276 Nanle Rd
201613
CN

94-E2-FD (hex) Boge Kompressoren OTTO Boge GmbH & Co. KG

94E2FD (base 16) Boge Kompressoren OTTO Boge GmbH & Co. KG
Otto Boge Str. 1-7
Bielefeld Westfalia 33739
DE

F4-2C-56 (hex) SENOR TECH CO LTD
F42C56 (base 16) SENOR TECH CO LTD
No.165, Kangning St
New Taipei City Taiwan 221
TW

FC-DC-4A
(hex) G-Wearables Corp.
FCDC4A (base 16) G-Wearables Corp.
901, S&CTBuilding, No.9 Zhongguancun South Avenue
Beijing Beijing 100081
CN

1C-14-B3 (hex) Airwire Technologies
1C14B3 (base 16) Airwire Technologies
9670 Gateway Drive, Suite 250
Reno NV 89521
US

A8-90-08 (hex) Beijing Yuecheng Technology Co. Ltd.
A89008 (base 16) Beijing Yuecheng Technology Co. Ltd.
Room 1601, Floor 16
Beijing Beijing 100000
CN

18-38-64 (hex) CAP-TECH INTERNATIONAL CO., LTD.
183864 (base 16) CAP-TECH INTERNATIONAL CO., LTD.
Rm. 6, 4F., No.120, Qiaohe Rd., Zhonghe Dist
New Taipei City Taiwan 235
TW

C0-33-5E (hex) Microsoft
C0335E (base 16) Microsoft
1 Microsoft Way
Redmond Washington 98052
US

B0-E0-3C (hex) TCT mobile ltd
B0E03C (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

BC-14-85 (hex) Samsung Electronics
Co.,Ltd
BC1485 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

9C-6C-15 (hex) Microsoft Corporation
9C6C15 (base 16) Microsoft Corporation
1 Microsoft Way
Redmond Washington 98052
FI

A4-8C-DB (hex) Lenovo
A48CDB (base 16) Lenovo
1009 Think Place
Morrisvilee NC 27560
US

D8-5D-E2 (hex) Hon Hai Precision Ind. Co.,Ltd.
D85DE2 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

3C-91-2B (hex) Vexata Inc
3C912B (base 16) Vexata Inc
1735 Technology Dr Suite 520
San Jose CA 95110
US

34-6C-0F (hex) Pramod Telecom Pvt. Ltd
346C0F (base 16) Pramod Telecom Pvt. Ltd
Plot No. 6-B, Malviya Nagar,
Lucknow Uttar Pradesh 226004
IN

C8-A8-23 (hex) Samsung Electronics Co.,Ltd
C8A823 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi
Gyeongbuk 730-350
KR

B0-C5-59 (hex) Samsung Electronics Co.,Ltd
B0C559 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350

KR

6C-F5-E8 (hex) Mooredoll Inc.
6CF5E8 (base 16) Mooredoll Inc.
5F,No.50,Ln.316,Ruiguan Rd.,Neihu Dist.,Taipei 114, Taiwan
Taipei Neihu 114
TW

E8-44-7E (hex) Bitdefender SRL
E8447E (base 16) Bitdefender SRL
24 Delea Veche St.
Bucharest Romania 024102
RO

B0-49-5F (hex) OMRON HEALTHCARE Co., Ltd.
B0495F (base 16) OMRON HEALTHCARE Co., Ltd.
53, Kunotsubo, Terado-cho
Muko Kyoto 6170002
JP

44-5E-CD (hex) Razer Inc
445ECD (base 16) Razer Inc
2035 Corte Del Nogal
Carlsbad CA 92011
US

A0-C2-DE (hex) Costar Video Systems
A0C2DE (base 16) Costar Video Systems
101 Wrangler, Suite 201
Coppell Texas 75019
US

88-E1-61 (hex) Art Beijing Science and Technology Development Co., Ltd.
88E161 (base 16) Art
Beijing Science and Technology Development Co., Ltd.
Room 210,Building 1#, No. 27 Qinghe Longgang Rd., Haidian District, Beijing,100192,China
Beijing Beijing 100192
CN

00-A5-09 (hex) WigWag Inc.
00A509 (base 16) WigWag Inc.
4009 banister lane
austin texas 78704
US

74-91-BD (hex) Four systems Co.,Ltd.
7491BD (base 16) Four systems Co.,Ltd.
608-608/7 Ramintra Road Kannayao

Bangkok Bangkok 10230
TH

D0-92-9E (hex) Microsoft Corporation
D0929E (base 16) Microsoft Corporation
1 Microsoft Way
Redmond Washington 98052
FI

84-CF-BF (hex) Fairphone
84CFBF (base 16) Fairphone
Piet Heinkade 181A
Amsterdam North Holland 1019HC
NL

AC-D1-B8 (hex) Hon Hai Precision Ind. Co.,Ltd.
ACD1B8 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

60-F1-89 (hex) Murata Manufacturing Co., Ltd.
60F189 (base 16) Murata Manufacturing
Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

74-2E-FC (hex) DirectPacket Research, Inc,
742EFC (base 16) DirectPacket Research, Inc,
909 Lake Carolyn Parkway
Irving Texas 75039
US

F0-FE-6B (hex) Shanghai High-Flying Electronics Technology Co., Ltd
F0FE6B (base 16) Shanghai High-Flying Electronics Technology Co., Ltd
Room 1002 ,#1Building,No.3000 Longdong Avenue,Pudong District,Shanghai,China
shanghai shanghai 201203
CN

3C-AE-69 (hex) ESA Elektroschaltanlagen Grimma GmbH
3CAE69 (base 16) ESA Elektroschaltanlagen Grimma GmbH
Broner Ring 30
Grimma Saxony 04668
DE

D4-32-66 (hex) Fike Corporation
D43266 (base 16) Fike Corporation

704 SW 10th Street
Blue Springs MO 64015
US

90-0C-B4 (hex) Alinket Electronic Technology Co., Ltd
900CB4 (base 16) Alinket Electronic Technology Co., Ltd
412 Guilin Rd. 3F, Xuhui District
Shanghai Shanghai 201235
CN

4C-A9-28
(hex) Insensi
4CA928 (base 16) Insensi
2025 Broadway, 2CD
New York City New York 10023
US

DC-09-14 (hex) Talk-A-Phone Co.
DC0914 (base 16) Talk-A-Phone Co.
7530 N. Natchez Ave.
Niles IL 60714
US

48-C0-93 (hex) Xirrus, Inc.
48C093 (base 16) Xirrus, Inc.
2101 Corporate Center Dr.
Thousand Oaks CA 91320
US

00-A2-F5 (hex) Guangzhou Yuanyun Network Technology Co.,Ltd
00A2F5 (base 16) Guangzhou Yuanyun Network Technology Co.,Ltd
31/F,183 TianHe Bei Rd, Metro Plz
GuangZhou GuangDong 510630
CN

10-08-B1 (hex) Hon Hai Precision Ind. Co.,Ltd.
1008B1 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

E4-8C-0F (hex) Discovery Insure
E48C0F (base 16) Discovery Insure
3 Alice lane
Sandton Gauteng 2196
ZA

BC-52-B4 (hex) Nokia

BC52B4 (base 16) Nokia
600 March Road
Kanata Ontario
K2K 2E6
CA

94-05-B6 (hex) Liling FullRiver Electronics & Technology Ltd
9405B6 (base 16) Liling FullRiver Electronics & Technology Ltd
FullRiver Industrial Area Economic Development Zone
HuNan Province 412200
CN

10-FA-CE (hex) Reacheng Communication Technology Co.,Ltd
10FACE (base 16) Reacheng Communication Technology Co.,Ltd
Building No.5-401,
Pu Dong New District, Shanghai 201203
CN

C8-1B-6B (hex) Innova Security
C81B6B (base 16) Innova Security
Av. General Ataliba Leonel, 1205
Sao Paulo Sao Paulo 02033000
BR

B4-A8-28 (hex) Shenzhen Concox Information Technology Co., Ltd
B4A828 (base 16) Shenzhen Concox Information Technology Co., Ltd
Floor 4th, Building B, Gaoxinqi Industrial Park, Liuxian 1st Road, district 67, Bao'an, Shenzhen, Guangdong,China
Shenzhen Guangdong 518102
CN

34-38-AF (hex) Inlab Networks GmbH
3438AF (base 16) Inlab Networks GmbH
Josef-Wuerth-Str. 3
Gruenwald
Bavaria 82031
DE

00-F3-DB (hex) WOO Sports
00F3DB (base 16) WOO Sports
11 Elkins St.
BOSTON Massachusetts 02127
US

78-31-2B (hex) zte corporation
78312B (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

44-CE-7D (hex) SFR
44CE7D (base 16) SFR
5 RUE NOEL PONS
NANTERRE 92000
FR

34-4D-EA (hex) zte corporation
344DEA (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

94-BF-95 (hex) Shenzhen Coship Electronics Co., Ltd
94BF95 (base 16) Shenzhen Coship Electronics Co., Ltd
Rainbow Bldg., North, Hi-Tech Industrial Park
Shenzhen Guangdong 518057
CN

E4-23-54 (hex) SHENZHEN FUZHI SOFTWARE TECHNOLOGY CO.,LTD
E42354 (base 16) SHENZHEN FUZHI SOFTWARE TECHNOLOGY CO.,LTD
4/F,Fuxing Bldg,Binlang Road,Futian Free Trade Zone,SHENZHEN.CHINA
SHENZHEN
Guang Dong 518038
CN

94-70-D2 (hex) WINFIRM TECHNOLOGY
9470D2 (base 16) WINFIRM TECHNOLOGY
2-1015 Lotte IT Castle
Seoul 153-768
KR

A4-4A-D3 (hex) ST Electronics(Shanghai) Co.,Ltd
A44AD3 (base 16) ST Electronics(Shanghai) Co.,Ltd
Floors 1&3, No.6 Building, No.1151 Lianxi Road
Shanghai Shanghai 201204
CN

EC-0E-C4 (hex) Hon Hai Precision Ind. Co.,Ltd.
EC0EC4 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

8C-18-D9 (hex) Shenzhen RF Technology Co., Ltd
8C18D9 (base 16) Shenzhen RF Technology Co., Ltd
5/F,Building 4,Baokun Science and Technology Industial Park
Baoan Guangdong 518100

CN

CC-30-80 (hex) VAIO Corporation
CC3080 (base 16) VAIO Corporation
5432 Toyoshina
Azumino Nagano 399-8282
JP

18-71-17 (hex) eta plus electronic gmbh
187117 (base 16) eta plus electronic gmbh
Lauterstr. 29
Nuertingen
BW 72622
DE

7C-B1-77 (hex) Satelco AG
7CB177 (base 16) Satelco AG
Seestrasse 241
Au / Waedenswil ZH 8804
CH

30-FA-B7 (hex) Tunai Creative
30FAB7 (base 16) Tunai Creative
12F, No.221, Sec.4, Zongxiao E. Rd, Taipei 106, Taiwan
TAIPEI TAIPEI 10690
TW

08-09-B6 (hex) Masimo Corp
0809B6 (base 16) Masimo Corp
40 Parker
Irvine CA 92618
US

4C-F5-A0 (hex) Scalable Network Technologies Inc
4CF5A0 (base 16) Scalable Network Technologies Inc
600 Corporate Pointe
Culver City CA 90230
US

4C-16-F1 (hex) zte corporation
4C16F1 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

D8-FB-11 (hex) AXACORE
D8FB11 (base 16) AXACORE
2468 HISTORIC DECATUR RD

SAN DIEGO CA 92106
US

C4-BD-6A (hex) SKF GmbH
C4BD6A (base 16) SKF GmbH
Gunnar-Wester-Strasse 12
Schweinfurt DE DE-97421
DE

C4-01-CE
(hex) PRESITION (2000) CO., LTD.
C401CE (base 16) PRESITION (2000) CO., LTD.
42/6 Moo6
Muang Samutsakorn 74000
TH

58-7B-E9 (hex) AirPro Technology India Pvt. Ltd
587BE9 (base 16) AirPro Technology India Pvt. Ltd
D30, Gautam Marg,
Jaipur Rajasthan 302018
IN

60-02-92 (hex) PEGATRON CORPORATION
600292 (base 16) PEGATRON CORPORATION
5F No. 76, Ligong St., Beitou District
Taipei City Taiwan 112
TW

B4-B8-59 (hex) Texa Spa
B4B859 (base 16) Texa Spa
Via I Maggio, 9
Monastier di Treviso Treviso 31050
IT

5C-F9-F0 (hex) Atomos Engineering P/L
5CF9F0 (base 16) Atomos Engineering P/L
36 Park St
South Melbourne Victoria 3205
AU

E4-C6-2B (hex) Airware
E4C62B (base 16) Airware
1045 Bryant St.
San Francisco California 94103
US

EC-1D-7F (hex) zte corporation
EC1D7F (base 16) zte corporation

12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen
guangdong 518057
CN

4C-E9-33 (hex) RailComm, LLC
4CE933 (base 16) RailComm, LLC
1387 Fairport Road
Fairport New York 14450
US

AC-38-70 (hex) Lenovo Mobile Communication Technology Ltd.
AC3870 (base 16) Lenovo Mobile Communication Technology Ltd.
No.999, Qishan North 2nd Road, Information & Optoelectronics Park,
Xiamen Fujian 361006

4C-BC-42 (hex) Shenzhen Hangsheng Electronics Co.,Ltd.
4CBC42 (base 16) Shenzhen Hangsheng Electronics Co.,Ltd.
Hangsheng Industrial Area, Fuyuan 1st Road,Heping Village, Fuyong Town,Baoan District
Shenzhen City Guangdong 518103
CN

98-7E-46 (hex) Emizon Networks Limited
987E46 (base 16) Emizon Networks Limited
1 Allerton Road
Rugby Warwickshire CV23 0PA
GB

3C-46-D8 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
3C46D8 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

14-75-90 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
147590 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

50-BD-5F (hex) TP-LINK TECHNOLOGIES CO.,LTD.
50BD5F (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

70-F1-96 (hex) Actiontec Electronics, Inc
70F196 (base 16) Actiontec Electronics, Inc
3301 Olcott St.
Santa Clara CA 95054
US

18-82-19 (hex) Alibaba Cloud Computing Ltd.
188219 (base 16) Alibaba Cloud Computing Ltd.
Yuhang District of Hangzhou Wenyi Road, Building 1, No. 969 Xixi Park, Zhejiang Province
Hangzhou Zhejiang 310000
CN

28-A5-EE (hex) Shenzhen SDGI CATV Co., Ltd
28A5EE (base 16) Shenzhen
SDGI CATV Co., Ltd
2/F, NO, 3, QIONGYU ROAD,
shenzhen Guangdong province 518057
CN

F4-FD-2B (hex) ZOYI Company
F4FD2B (base 16) ZOYI Company
827-66 Yeoksam 1-dong, Second Floor
Seoul Korea 135-935
KR

BC-4E-5D (hex) ZhongMiao Technology Co., Ltd.
BC4E5D (base 16) ZhongMiao Technology Co., Ltd.
NO.2009 Lihu Avenue, WuxiStudioA-A3
Wuxi Jiangsu 214000
CN

7C-6A-C3 (hex) GatesAir, Inc
7C6AC3 (base 16) GatesAir, Inc
5300 Kings Island Drive
Mason Ohio 45040
US

F4-D0-32 (hex) Yunnan Ideal Information&Technology.,Ltd
F4D032 (base 16) Yunnan Ideal Information&Technology.,Ltd
The 1st Floor, Building Four ,JingdianMingju,Haiyuanzhong road, High Tech Development Zone,Kunming,YunnanP.R.China
Kunming Yunnan 650106
CN

0C-8C-8F (hex) Kamo Technology Limited
0C8C8F (base 16) Kamo Technology Limited
Room 1502, 15/F., Yue Xiu Building,
Wanchai Hong Kong 160-174

CN

A4-A4-D3
(hex) Bluebank Communication Technology Co.Ltd
A4A4D3 (base 16) Bluebank Communication Technology Co.Ltd
No.13-2.Jiang Ying Road,
Chongqing 401336
CN

70-2D-D1 (hex) Newings Communication CO., LTD.
702DD1 (base 16) Newings Communication CO., LTD.
12F, Block 1, NO 7866, Humin Rd, Minhang District, Shanghai, China
Shanghai Shanghai 200000
CN

F4-F6-46 (hex) Dediprog Technology Co. Ltd.
F4F646 (base 16) Dediprog Technology Co. Ltd.
4F,No.7,Lane 143, Xinming Rd.,
Taipei 114
TW

D0-A0-D6 (hex) ChengDu TD Tech
D0A0D6 (base 16) ChengDu TD Tech
C3 floor, software park, No. 219, Tianhua Second Road
Chengdu Tianfu Avenue, high tech Zone 610041
CN

EC-B9-07 (hex) CloudGenix Inc
ECB907 (base 16) CloudGenix Inc
2933 Bunker Hill Lane
Santa Clara CA 95054
US

F4-28-33 (hex) MMPC Inc.
F42833 (base 16) MMPC Inc.
#F313, KAIST-ICC, 193 Munjiro Yuseong-gu
Daejeon Daejeon
305-732
KR

A8-32-9A (hex) Digicom Futuristic Technologies Ltd.
A8329A (base 16) Digicom Futuristic Technologies Ltd.
406 Mirror Tower, Modi Road, TST
000086
HK

08-3D-88 (hex) Samsung Electronics Co.,Ltd
083D88 (base 16) Samsung Electronics Co.,Ltd

#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

30-59-5B (hex) streamnow AG
30595B (base 16) streamnow AG
Brandstrasse 33
Schlieren Zürich 8952
CH

4C-83-DE (hex) Cisco SPVTG
4C83DE (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

A8-13-74 (hex) Panasonic Corporation AVC Networks Company
A81374 (base 16) Panasonic Corporation AVC Networks Company
1-15 Matsuo cho
Kadoma city Osaka 571-8504
JP

3C-18-9F (hex) Nokia Corporation
3C189F (base 16) Nokia Corporation
Joensuunkatu 7
Salo N.A. 24101
FI

28-E6-E9 (hex) SIS Sat Internet Services GmbH
28E6E9 (base 16) SIS Sat Internet Services
GmbH
Justus-von-Liebig Str. 26
Neustadt Niedersachsen 31535
DE

04-5C-8E (hex) gosund GROUP CO.,LTD
045C8E (base 16) gosund GROUP CO.,LTD
11/F., FRONT BLOCK, HANG LOK BUILDING
SHEUNG WAN, HK 999077
HK

7C-C4-EF (hex) Devialet
7CC4EF (base 16) Devialet
126, rue Réaumur
Paris Paris 75002
FR

D8-5D-FB (hex) Private

D85DFB (base 16) Private

30-0D-2A (hex) Zhejiang Wellcom Technology Co.,Ltd.
300D2A (base 16) Zhejiang Wellcom Technology Co.,Ltd.
Liuhe Road,Binjiang District , Hangzhou
Hangzhou Zhejiang 310012

90-8C-63 (hex) GZ Weedong Networks Technology Co. , Ltd
908C63 (base 16) GZ Weedong Networks Technology Co. , Ltd
38th Floor,Ren Feng Building
Guangzhou Guangdong 510620
CN

84-85-0A (hex) Hella Sonnen- und Wetterschutztechnik GmbH
84850A (base 16) Hella Sonnen- und Wetterschutztechnik GmbH
Abfaltersbach 125
Abfaltersbach Tirol 9913
AT

08-CD-9B
(hex) samtec automotive electronics & software GmbH
08CD9B (base 16) samtec automotive electronics & software GmbH
Saarstrasse 27
Filderstadt Baden-Wuerttemberg 70794
DE

5C-5B-C2 (hex) YIK Corporation
5C5BC2 (base 16) YIK Corporation
B-4F,Pangyo Silicon Park 613
Seongnam-si Gyeonggi-do 463-400
KR

10-92-66 (hex) Samsung Electronics Co.,Ltd
109266 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

DC-F1-10 (hex) Nokia Corporation
DCF110 (base 16) Nokia Corporation
Joensuunkatu 7
Salo N.A. 24101
FI

60-8F-5C (hex) Samsung Electronics Co.,Ltd
608F5C (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong

Gumi Gyeongbuk 730-350
KR

E8-EF-89 (hex) OPMEX Tech.
E8EF89 (base 16) OPMEX Tech.
18F GDC Building, 9 Gaoxin Central Avenue 3rd, Nanshan District
Shenzhen Guangdong 518000
CN

EC-2E-4E (hex) HITACHI-LG DATA STORAGE INC
EC2E4E
(base 16) HITACHI-LG DATA STORAGE INC
4F, MSC CENTER BLDG., 22-23 KAIGAN 3-CHOME, MINATO-KU,
TOKYO TOKYO 108-0022
JP

34-81-C4 (hex) AVM GmbH
3481C4 (base 16) AVM GmbH
Alt-Moabit 95
Berlin Berlin 10559
DE

CC-B6-91 (hex) NECMagnusCommunications
CCB691 (base 16) NECMagnusCommunications
4-28 MITA 1Chome
Minato-ku Tokyo 108-0073
JP

40-16-7E (hex) ASUSTek COMPUTER INC.
40167E (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

14-2B-D6 (hex) Guangdong Appscomm Co.,Ltd
142BD6 (base 16) Guangdong Appscomm Co.,Ltd
Rm 903, Block C3, Chuangxin Building, No.182,
Guangzhou Guangdong 510663
CN

F8-4A-73 (hex) EUMTECH CO., LTD
F84A73 (base 16) EUMTECH CO., LTD
Room 1201, 115, Dongdeok-ro
Daegu Daegu 700-719
KR

98-37-13 (hex) PT.Navicom Indonesia
983713 (base 16) PT.Navicom Indonesia

Perkantoran Citragrand Blok CW7
no 10
Bekasi Jawa Barat 17435
ID

A4-7E-39 (hex) zte corporation
A47E39 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

FC-C2-DE (hex) Murata Manufacturing Co., Ltd.
FCC2DE (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

D0-C7-C0 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
D0C7C0 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

D4-67-61 (hex) XonTel Technology Co.
D46761 (base 16) XonTel Technology Co.
XonTel, Borj ALadel Tower, Fahad Al-Salem St Fl 21
Kuwait 0000
KW

98-34-9D (hex) Krauss Maffei Technologies GmbH
98349D (base 16) Krauss Maffei Technologies GmbH
Krauss-Mafffei-Str. 2
Munich 80997
DE

88-0F-B6 (hex) Jabil Circuits India
Pvt Ltd,-EHTP unit
880FB6 (base 16) Jabil Circuits India Pvt Ltd,-EHTP unit
B-26, MIDC, Ranjangaon, Tal.Shirur
Pune Maharashtra 412220
IN

B4-66-98 (hex) Zealabs srl
B46698 (base 16) Zealabs srl
via Monte Grappa, 25
Lancenigo di Villorba Italy 31020
IT

68-7C-C8 (hex) Measurement Systems S. de R.L.
687CC8 (base 16) Measurement Systems S. de R.L.
45999 Regal Plaza
Sterling VA 20165
US

74-F8-5D (hex) Berkeley Nucleonics Corp
74F85D (base 16) Berkeley Nucleonics Corp
2955 Kerner Blvd #D
San Rafael California 94901
US

B0-61-C7 (hex) Ericsson-LG Enterprise
B061C7 (base 16) Ericsson-LG Enterprise
77, Heungan-daro 81beon-gil,
Anyang Gyeonggi 431-749
KR

40-01-07 (hex) Arista Corp
400107 (base 16) Arista Corp
40675 Encyclopedia Circle
Fremont CA 94538
US

00-92-FA (hex) SHENZHEN WISKY TECHNOLOGY CO.,LTD
0092FA (base 16) SHENZHEN WISKY TECHNOLOGY CO.,LTD
5/F
W2-A,Hight-tech Park South 1 Road,Nanshan District,Shenzhen,Guangdong,China
Shenzhen Guangdong 518057
CN

4C-7F-62 (hex) Nokia Corporation
4C7F62 (base 16) Nokia Corporation
Joensuunkatu 7
Salo N.A. 24101
FI

D8-81-CE (hex) AHN INC.
D881CE (base 16) AHN INC.
1006,Halla sigma valley, 53, Gasandigital 2-Ro
Seoul 153 706
KR

E0-D3-1A (hex) EQUES Technology Co., Limited
E0D31A (base 16) EQUES Technology Co., Limited
Room 301, Building 1, No.168 Jixin Road,
Shanghai 201199
CN

58-05-28 (hex) LABRIS NETWORKS
580528 (base 16) LABRIS NETWORKS
Silikon Blok 1 NK 24 Teknokent
ANKARA AN 06540
TR

40-78-75 (hex) IMBEL - Industria de Material Belico do Brasil
407875 (base 16) IMBEL - Industria de Material Belico do Brasil
Rua Monsenhor Manoel Gomes, 520
Rio de Janeiro RJ 20931-670
BR

30-C7-50 (hex) MIC Technology Group
30C750 (base 16) MIC Technology Group
No.
6 Gaoxin 3 road
Xi'an Shaanxi 710075
CN

44-11-C2 (hex) Telegartner Karl Gartner GmbH
4411C2 (base 16) Telegartner Karl Gartner GmbH
Lerchenstr. 35
Steinenbronn Baden-Wurttemberg 71144
DE

80-59-FD (hex) Noviga
8059FD (base 16) Noviga
Lefortovskaya nab., 1
Moscow - 105005
RU

98-77-70 (hex) Pep Digital Technology (Guangzhou) Co., Ltd
987770 (base 16) Pep Digital Technology (Guangzhou) Co., Ltd
23F, Yinhui Building, No.117 Longyi Road,
Guangzhou Guangdong Province 510635
CN

28-C8-25 (hex) DellKing Industrial Co., Ltd
28C825 (base 16) DellKing Industrial Co., Ltd
2F,Building D,Zhongxing Science Park, No 3,Ganli 2nd Road,Gankeng Community
Shenzhen GuangDong 518112
CN

44-7E-76 (hex) Trek Technology (S) Pte Ltd
447E76 (base 16) Trek Technology (S) Pte Ltd
30 Loyang Way #07-15
Singapore Singapore 508769

SG

B0-EC-8F (hex) GMX SAS
B0EC8F (base 16) GMX SAS
32
Rue Brancion
PARIS 75015
FR

28-DE-F6 (hex) bioMerieux Inc.
28DEF6 (base 16) bioMerieux Inc.
595 Anglum Road
Hazelwood MO 63042
US

10-0F-18 (hex) Fu Gang Electronic(KunShan)CO.,LTD
100F18 (base 16) Fu Gang Electronic(KunShan)CO.,LTD
No.6 Zheng Wei West Road, Jin Xi Town, Kun Shan City, Jiang Su Province, China
Jiang Su 215324
CN

18-CC-23 (hex) Philio Technology Corporation
18CC23 (base 16) Philio Technology Corporation
8F., No.653-2, Zhongzheng Rd
New Taipei 242
TW

68-D2-47 (hex) Portalis LC
68D247 (base 16) Portalis LC
204 Fort Union Blvd. Ste. 202
Midvale UT 84047
US

50-B6-95 (hex) Micropoint Biotechnologies,Inc.
50B695 (base 16) Micropoint Biotechnologies,Inc.
6F, No.3, Industry 5 Road, Shekou
Shenzhen Guangdong 518067
CN

B4-43-0D (hex) Broadlink Pty Ltd
B4430D (base 16) Broadlink Pty Ltd
room 1201, No. 588 jiangnan Rd,
Hangzhou Zhejiang
province 310052
CN

50-A0-54 (hex) Actineon
50A054 (base 16) Actineon

47751 Fremont Blvd
Fremont California 94538
US

A0-65-18 (hex) VNPT TECHNOLOGY
A06518 (base 16) VNPT TECHNOLOGY
HoaLac Hi-Tech Park
HANOI 10000
VN

7C-8D-91 (hex) Shanghai Hongzhuo Information Technology co.,LTD
7C8D91 (base 16) Shanghai Hongzhuo Information Technology co.,LTD
Room.161,Building 5,No.311 Jingao RD
Pudong Shanghai 200136
CN

74-8F-1B (hex) MasterImage 3D
748F1B (base 16) MasterImage 3D
131, Gasan Digital 1-ro, Geumcheon-gu
Seoul 153-803
KR

08-3F-76 (hex) Intellian Technologies, Inc.
083F76 (base 16) Intellian Technologies, Inc.
348-5 Chungho-Ri Jinwi-Myeon
Gyeonggi-Do 451-862
KR

38-6C-9B (hex) Ivy Biomedical
386C9B (base 16) Ivy Biomedical
11 Business Park Drive
Branford Connecticut 06405
US

B4-2C-92 (hex) Zhejiang Weirong Electronic Co., Ltd
B42C92 (base
16) Zhejiang Weirong Electronic Co., Ltd
North of South Tanghe Road, Lingxi Town,
Wenzhou City Zhejiang Province 325800
CN

6C-64-1A (hex) Penguin Computing
6C641A (base 16) Penguin Computing
45800 Northport Loop West
Fremont CA 94538
US

5C-E7-BF (hex) New Singularity International Technical Development Co.,Ltd

5CE7BF (base 16) New Singularity International Technical Development Co.,Ltd
8F,NorthStar-Ultrapower Tower, No.13 Beiyuan Road, Chaoyang District, Beijing, China
Beijing Beijing 100107
CN

CC-89-FD (hex) Nokia Corporation
CC89FD (base 16) Nokia Corporation
Joensuunkatu 7
Salo N.A. 24101
FI

34-46-6F (hex) HiTEM Engineering
34466F (base 16) HiTEM Engineering
7420 Carroll Road
San Diego CA 92121
US

D8-2A-15 (hex) Leitner SpA
D82A15 (base 16) Leitner SpA
Via Brennero 34
Vipiteno Bolzano 39049
IT

80-61-8F (hex) Shenzhen sangfei consumer communications
co.,ltd
80618F (base 16) Shenzhen sangfei consumer communications co.,ltd
11 science and technology road,shenzhen hi-tech industrial park nanshan district,shenzhen 518057,PRC
ShenZhen China/GuangDong 518057
CN

B4-85-47 (hex) Amptown System Company GmbH
B48547 (base 16) Amptown System Company GmbH
Wandsbeker Strasse 26
Hamburg Hamburg 22179
DE

50-56-A8 (hex) Jolla Ltd
5056A8 (base 16) Jolla Ltd
Itaemerenkatu 11-13
Helsinki 00180
US

D8-7C-DD (hex) SANIX INCORPORATED
D87CDD (base 16) SANIX INCORPORATED
Creation Core Fukuoka 212, 3-2-16 Kamikoga,
Chikushino-shi Fukuoka 818-0041
JP

70-7C-18 (hex) ADATA Technology Co., Ltd
707C18 (base 16) ADATA Technology Co., Ltd
2F, No.258, Lian Cheng Rd.
New Taipei City 23553
TW

78-EC-74 (hex) Kyland-USA
78EC74 (base 16) Kyland-USA
1107 SE Willow Pl
Blue Springs MO 64014
US

E8-E7-70 (hex) Warp9 Tech Design, Inc.
E8E770
(base 16) Warp9 Tech Design, Inc.
3650 Pheasant Run N.E.
Blaine MN 55449
US

60-96-20 (hex) Private
609620 (base 16) Private

C0-F9-91 (hex) GME Standard Communications P/L
C0F991 (base 16) GME Standard Communications P/L
17 Gibbon Rd.
Winston Hills New South Wales 2153
AU

C0-64-C6 (hex) Nokia Corporation
C064C6 (base 16) Nokia Corporation
Joensuunkatu 7
Salo N.A. 24101
FI

14-F2-8E (hex) ShenYang ZhongKe-Allwin Technology Co.LTD
14F28E (base 16) ShenYang ZhongKe-Allwin Technology Co.LTD
No.6, Gaoge Road,
ShenYang Liaoning 110179
CN

BC-14-EF (hex) ITON Technology Limited
BC14EF (base 16) ITON Technology Limited
Room 1302,A ablock, Building 4
ShenZhen GuangDong Pronvice 518000
CN

44-3C-9C (hex) Pintsch GmbH
443C9C (base 16) Pintsch GmbH

Huenxer Strasse 149
Dinslaken 46537
DE

A0-77-71 (hex) Vialis BV
A07771 (base 16) Vialis BV
Loodsboot
15
HOUTEN Utrecht 3991 CJ
US

10-DD-F4 (hex) Maxway Electronics CO.,LTD
10DDF4 (base 16) Maxway Electronics CO.,LTD
2F Building 4,A Section,3rd Industrial zone,Tangtou
Shenzhen Guangdong 518018
CN

08-03-71 (hex) KRG CORPORATE
080371 (base 16) KRG CORPORATE
41 rue Perier
Montrouge 92120
FR

20-0E-95 (hex) IEC – TC9 WG43
200E95 (base 16) IEC – TC9 WG43
3, rue de Varembe
Geneva GE 1211
CH

0C-12-62 (hex) zte corporation
0C1262 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

3C-D4-D6 (hex) WirelessWERX, Inc
3CD4D6 (base 16) WirelessWERX, Inc
22687 Old Canal Rd.
Yorba Linda California 92887
US

C8-F6-8D (hex) S.E.TECHNOLOGIES LIMITED
C8F68D (base 16) S.E.TECHNOLOGIES LIMITED
#303 Shiodome building Level3
Minato-ku Tokyo 105-0022
JP

38-7B-47 (hex) AKELA, Inc.

387B47 (base
16) AKELA, Inc.
5551 Ekwill Street, Suite A
Santa Barbara California 93111
US

E4-04-39 (hex) TomTom Software Ltd
E40439 (base 16) TomTom Software Ltd
20th Floor Euston Tower
London NW1 3AS
GB

24-A4-95 (hex) Thales Canada Inc.
24A495 (base 16) Thales Canada Inc.
105 Moatfield Road
Toronto Ontario M3B 0A4
CA

D0-C4-2F (hex) Tamagawa Seiki Co.,Ltd.
D0C42F (base 16) Tamagawa Seiki Co.,Ltd.
1-3-47 Kitainter Kogyodanchi
Hachinohe city Aomori-Pref. 039-2245
US

54-93-59 (hex) SHENZHEN TWOWING TECHNOLOGIES CO.,LTD.
549359 (base 16) SHENZHEN TWOWING TECHNOLOGIES CO.,LTD.
F 4th ,5th , 6th, No.6 Building,
Shenzhen Guangdong 518129
US

90-35-6E (hex) Vodafone Omnitel N.V.
90356E (base 16) Vodafone Omnitel N.V.
Via Guglielmo Jervis, 13
Ivrea Italy / Tourin 10015
IT

E0-97-F2 (hex) Atomax Inc.
E097F2 (base 16) Atomax Inc.
8F-1, No.300, Sec.1, Nei-hu Rd.
Taipei
114
TW

70-30-5E (hex) Nanjing Zhongke Menglian Information Technology Co.,LTD
70305E (base 16) Nanjing Zhongke Menglian Information Technology Co.,LTD
3rd Floor,Building A,Area 3
Nanjing Jiangsu 210042
CN

C0-98-E5 (hex) University of Michigan
C098E5 (base 16) University of Michigan
4808 Beyster Bldg,
Ann Arbor Michigan 48109
US

50-E1-4A (hex) Private
50E14A (base 16) Private

70-8D-09 (hex) Nokia Corporation
708D09 (base 16) Nokia Corporation
Joensuunkatu 7
Salo N.A. 24101
FI

70-1D-7F (hex) Comtech Technology Co., Ltd.
701D7F (base 16) Comtech Technology Co., Ltd.
2F, No. 42, Sec. 3 Chung Yang Rd.
New Taipei City 23673
TW

9C-03-9E (hex) Beijing Winchannel Software Technology Co., Ltd
9C039E (base 16) Beijing Winchannel Software Technology Co., Ltd
8F, Block E, Dazhongsi Zhongkun Plaza No. A
Haidian District BEIJING 100089
CN

68-0A-D7 (hex) Yancheng Kecheng
Optoelectronic Technology Co., Ltd
680AD7 (base 16) Yancheng Kecheng Optoelectronic Technology Co., Ltd
No.1 East Road, Kaifa Avenue,
Yancheng Jiangsu 224007
CN

5C-11-93 (hex) Seal One AG
5C1193 (base 16) Seal One AG
Berliner Str. 44
Frankfurt am Main Hessen 60311
DE

84-76-16 (hex) Addat s.r.o.
847616 (base 16) Addat s.r.o.
U krematoria 24
Liberec Liberec 46001
CZ

DC-05-75 (hex) SIEMENS ENERGY AUTOMATION

DC0575 (base 16) SIEMENS ENERGY AUTOMATION
GOA WORKS ,L-6 ,
VERNA GOA 403722
IN

84-4F-03 (hex) Ablelink Electronics Ltd
844F03 (base 16) Ablelink Electronics Ltd
Flat 1602,16/F Kodak House 2 39 Healthy Street East,

CN

78-3D-5B (hex) TELNET Redes Inteligentes S.A.
783D5B (base 16) TELNET Redes Inteligentes S.A.
Polígono Industrial Centrovía
La Muela Zaragoza 50198
ES

D0-B5-23 (hex) Bestcare Cloucal Corp.
D0B523 (base 16) Bestcare Cloucal
Corp.
4F.,No.106,Sec.1,Xintai 5th Rd.,
New Taipei City 22102
TW

98-FB-12 (hex) Grand Electronics (HK) Ltd
98FB12 (base 16) Grand Electronics (HK) Ltd
Flat/Room 1120, 11/F Beverley Commercial Centre
999077
HK

3C-10-40 (hex) daesung network
3C1040 (base 16) daesung network
#209 e-space Bldg,Guro-dong,Guro-gu
Seoul 152-789
KR

28-FC-51 (hex) The Electric Controller and Manufacturing Co., LLC
28FC51 (base 16) The Electric Controller and Manufacturing Co., LLC
PO Box 468
Saint Matthews SC 29135
US

BC-88-93 (hex) VILLBAU Ltd.
BC8893 (base 16) VILLBAU Ltd.
Ulloi ut 611.
Budapest - H-1182
HU

40-74-96 (hex) aFUN TECHNOLOGY INC.
407496 (base 16) aFUN TECHNOLOGY INC.
2F.,No.3,Lane29,HuLu ST.,Shihlin District,
Taipei 11165
TW

70-59-86 (hex) OOO TTV
705986 (base 16) OOO TTV
No. 75, Okulov Street, Building 8
Perm 614068
RU

98-6C-F5 (hex) zte
corporation
986CF5 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

90-67-17 (hex) Alphion India Private Limited
906717 (base 16) Alphion India Private Limited
405 Windfall, Sahar Plaza
Mumbai Maharashtra 400059
IN

60-64-A1 (hex) RADiflow Ltd.
6064A1 (base 16) RADiflow Ltd.
31 Habarzel St.
Tel Aviv 6971045
IL

58-B9-61 (hex) SOLEM Electronique
58B961 (base 16) SOLEM Electronique
ZAE La Plaine
CLAPIERS 34830
FR

78-49-1D (hex) The Will-Burt Company
78491D (base 16) The Will-Burt Company
169 S. Main St.
Orrivlle Ohio 44667
US

20-D2-1F (hex) Wincal Technology Corp.
20D21F (base 16) Wincal Technology Corp.
1028 South Greenwood Ave.
Montebello California 90640
US

F8-95-50 (hex) Proton Products Chengdu Ltd
F89550 (base 16) Proton Products Chengdu Ltd
1st Ring
Chengdu Sichuan
610051
CN

44-7B-C4 (hex) DualShine Technology(SZ)Co.,Ltd
447BC4 (base 16) DualShine Technology(SZ)Co.,Ltd
No.334-1,LuoTian 3rd Industrial Park,
Shen Zhen Guang Dong 518000
CN

2C-5F-F3 (hex) Pertronic Industries
2C5FF3 (base 16) Pertronic Industries
17 Eastern Hutt Road
Wingate 5019
NZ

58-63-9A (hex) TPL SYSTEMES
58639A (base 16) TPL SYSTEMES
ZAE DU PERIGORD NOIR
SARLAT 24200
FR

18-7E-D5 (hex) shenzhen kaism technology Co. Ltd
187ED5 (base 16) shenzhen kaism technology Co. Ltd
37# chuanglong west road pinghu shenzhen
shenzhen 518111
CN

9C-F8-DB (hex) shenzhen eyunmei technology co,.ltd
9CF8DB (base 16) shenzhen eyunmei technology co,.ltd
8/F Yiben Building,No.1063 ChaGuang Road,XiLi Town,
Shenzhen Guangdong 518055
CN

0C-47-3D (hex) Hitron Technologies. Inc
0C473D (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu,
300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

8C-CD-A2 (hex) ACTP, Inc.
8CCDA2 (base 16) ACTP, Inc.
2400 Sand Lake Rd

Orlando FL 32809
US

84-26-2B (hex) Nokia
84262B (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

F4-6A-BC (hex) Adonit Corp. Ltd.
F46ABC (base 16) Adonit Corp. Ltd.
10689 Rm. A, 9F, No.107 Sec.4 Ren-Ai Rd.,
Taipei Taipei 10689
TW

7C-49-B9 (hex) Plexus Manufacturing Sdn Bhd
7C49B9 (base 16) Plexus Manufacturing Sdn Bhd
Plot 87
Bayan Lepas Penang 11900
MY

84-0F-45 (hex) Shanghai GMT Digital Technologies Co., Ltd
840F45 (base 16) Shanghai GMT Digital Technologies Co., Ltd
Room 501-505
Zhangjiang Hi-tech Park Shanghai 201204
CN

E0-AF-4B (hex) Pluribus Networks, Inc.
E0AF4B (base 16) Pluribus Networks, Inc.
1808 Embarcadero Rd Suite B
Palo Alto CA 94303
US

54-A5-4B (hex) NSC Communications Siberia Ltd
54A54B (base 16) NSC
Communications Siberia Ltd
Ordjonikidze 38
Novosibirsk 630099
RU

BC-2B-6B (hex) Beijing Haier IC Design Co.,Ltd
BC2B6B (base 16) Beijing Haier IC Design Co.,Ltd
Room 205, Tongheng Building, No.4 Huayuan Road, Haidian District
Beijing Beijing 100088
CN

7C-B7-7B (hex) Paradigm Electronics Inc
7CB77B (base 16) Paradigm Electronics Inc

5340 Canotek Rd Unit#4
Ottawa ON K1J 9C6
CA

B0-CE-18 (hex) Zhejiang shenghui lighting co.,Ltd
B0CE18 (base 16) Zhejiang shenghui lighting co.,Ltd
Rm801,1th Xinye Building
cao he jing Develop Zone Shanghai 200233
CN

98-D3-31 (hex) Shenzhen Bolutek Technology Co.,Ltd.
98D331 (base 16) Shenzhen Bolutek Technology Co.,Ltd.
Building B, District A, Internet industry base, Baoan
Shenzhen Guangdong 518000
CN

38-EC-11 (hex) Novatek Microelectronics Corp.
38EC11 (base 16) Novatek Microelectronics Corp.
No.1-2 Innovation Rd I.,
Hsinchu 300
TW

4C-CB-F5
(hex) zte corporation
4CCBF5 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

44-70-0B (hex) IFFU
44700B (base 16) IFFU
33, Annyeom-gil 112 beon-gil,jeongnam-myeon
Hwaseong-si Gyeonggi-do 445-968
US

1C-41-58 (hex) Gemalto M2M GmbH
1C4158 (base 16) Gemalto M2M GmbH
Siemensdamm 50
Berlin Berlin 13629
DE

9C-28-40 (hex) Discovery Technology,LTD..
9C2840 (base 16) Discovery Technology,LTD..
5th floor Building 2,Block A,Internet industrial park,
Shenzhen Guangzhou 518100
CN

1C-7B-21 (hex) Sony Corporation

1C7B21 (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

EC-22-57 (hex) JiangSu NanJing University Electronic Information Technology Co.,Ltd
EC2257 (base 16) JiangSu NanJing University Electronic Information Technology Co.,Ltd
F7,Block 06
NanJing JiangSu 210000
CN

F0-37-A1
(hex) Huike Electronics (SHENZHEN) CO., LTD.
F037A1 (base 16) Huike Electronics (SHENZHEN) CO., LTD.
Huike industrial park,Minying industrial park,Shuitian country,Shiyan,Baoan District
SHENZHEN GUANGDONG 518108
CN

F0-8E-DB (hex) VeloCloud Networks
F08EDB (base 16) VeloCloud Networks
720 University Ave.
Palo Alto CA 94301
US

F4-7A-4E (hex) Woojeon&Handan
F47A4E (base 16) Woojeon&Handan
569-12, Gasan-dong,
Seoul 153-803
KR

04-84-8A (hex) 7INOVA TECHNOLOGY LIMITED
04848A (base 16) 7INOVA TECHNOLOGY LIMITED
3F, A Building, QuanYuanFa Industrial Park, No. 72, GuanLan Rd
LongHua District Shenzhen 518000
CN

6C-F9-7C (hex) Nanoptix Inc.
6CF97C (base 16) Nanoptix Inc.
699 Champlain St
Dieppe NB E1A 1P6
CA

F8-FF-5F (hex) Shenzhen Communication Technology Co.,Ltd
F8FF5F (base 16) Shenzhen Communication Technology Co.,Ltd
2F,6 Block, Kupai inforport,No.2
Mengxi Street,(North)High-tech Industrial Park,
Shenzhen Guangdong 518057
CN

70-4C-ED (hex) TMRG, Inc.
704CED (base 16) TMRG, Inc.
11950 Democracy Drive
Reston VA 20190
US

84-1B-38 (hex) Shenzhen Excelsecu Data Technology Co.,Ltd
841B38 (base 16) Shenzhen Excelsecu Data Technology Co.,Ltd
Unit 701-709,7/FSouth Block,SDGI Building A, No.2,
Shenzhen Guangdong 518057
CN

A8-97-DC (hex) IBM
A897DC (base 16) IBM
4400 North First Street
San Jose CA 95134
US

10-9A-B9 (hex) Tosibox Oy
109AB9 (base 16) Tosibox Oy
Elektroniikkatie 8
Oulu 90590
FI

14-2D-8B (hex) Incipio Technologies, Inc
142D8B (base 16) Incipio Technologies, Inc
6001 Oak Canyon
Irvine CA 92618
US

68-EE-96 (hex) Cisco SPVTG
68EE96 (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

08-EF-3B (hex) MCS Logic Inc.
08EF3B (base 16) MCS Logic Inc.
6F. Samho
Center B Bldg., 275-6,Yangjae-Dong, Secho-Ku,Seoul
Seoul 137-941
KR

E8-EA-DA (hex) Denkovi Assembly Electronics LTD
E8EADA (base 16) Denkovi Assembly Electronics LTD
St. Stambolov str. 21
Byala Rousse 7100

BG

F8-5B-C9 (hex) M-Cube Spa
F85BC9 (base 16) M-Cube Spa
Corso Cavour 2/2d
Trieste 34132
IT

90-7A-0A (hex) Gebr. Bode GmbH & Co KG
907A0A (base 16) Gebr. Bode GmbH & Co KG
Ochshaeuser Str. 14
Kassel 34266
DE

A0-C6-EC (hex) ShenZhen ANYK Technology Co.,LTD
A0C6EC (base 16) ShenZhen ANYK Technology Co.,LTD
5F,12B,ZhongXing Industrial Zone, Venture Road
ShenZhen GuangDong 518054
CN

10-22-79 (hex) ZeroDesktop, Inc.
102279 (base 16) ZeroDesktop, Inc.
125 University Ave, Suite 150
Palo Alto California 94301
US

7C-1A-FC (hex) Dalian Co-Edifice Video Technology Co., Ltd
7C1AFC (base 16) Dalian Co-Edifice Video Technology Co., Ltd
23F , Block A , #32
Huoju Road , Hi-Tech Zone
Dalian Liaoning 116023
CN

28-C6-71 (hex) Yota Devices OY
28C671 (base 16) Yota Devices OY
Elektronikkatie 13
Oulu 90590
FI

D8-69-60 (hex) Steinsvik
D86960 (base 16) Steinsvik
Rundhaug 25
FOERRESFJORDEN Rogaland 5563
NO

78-E8-B6 (hex) zte corporation
78E8B6 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China

shenzhen guangdong 518057
CN

DC-AE-04 (hex) CELOXICA Ltd
DCAE04 (base 16) CELOXICA Ltd
34 Porchester Road
London W2 6ES
GB

80-05-DF (hex) Montage Technology Group Limited
8005DF (base 16) Montage Technology Group Limited
Rm#A16F, Technolgy Blgd.,Yishan Rd.
Shanghai 200233
CN

84-E6-29 (hex) Bluwan SA
84E629 (base 16) Bluwan SA
Espace Lumiere, Bat 2
Chatou 78400
FR

C4-7F-51 (hex) Inventek Systems
C47F51 (base 16) Inventek Systems
2 Republic Road
Billerica Ma 01862
US

68-1D-64
(hex) Sunwave Communications Co., Ltd
681D64 (base 16) Sunwave Communications Co., Ltd
581,huoju Avenue,BinJiang District
Hangzhou Zhejiang Province 310053
CN

4C-21-D0 (hex) Sony Corporation
4C21D0 (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

C0-A3-9E (hex) EarthCam, Inc.
C0A39E (base 16) EarthCam, Inc.
84 Kennedy Street
Hackensack New Jersey 07601
US

CC-D2-9B (hex) Shenzhen Bopengfa Elec&Technology CO.,Ltd
CCD29B (base 16) Shenzhen Bopengfa Elec&Technology CO.,Ltd

Bldg56A,3/F,Baotian Rd3,Xixiang Town
shenzhen guangdong 518000
CN

78-DA-B3 (hex) GBO Technology
78DAB3 (base 16) GBO Technology
1150 Bayhill Dr. Ste. 111
San Bruno CA 94066
US

70-0F-EC (hex) Poindus Systems Corp.
700FEC (base 16) Poindus Systems Corp.
5F., No. 59, Lane. 77, Xing-Ai Rd., Neihu Dist.,
Taipei City 114
TW

E8-48-1F (hex) Advanced
Automotive Antennas
E8481F (base 16) Advanced Automotive Antennas
Pol.Ind Can Mitjans s/n
Viladecavalls Barcelona 08232
ES

D4-0B-B9 (hex) Solid Semecs bv.
D40BB9 (base 16) Solid Semecs bv.
Oostwijk 18
Uden Noord Brabant 5406 XT
NL

F4-15-FD (hex) Shanghai Pateo Electronic Equipment Manufacturing Co., Ltd.
F415FD (base 16) Shanghai Pateo Electronic Equipment Manufacturing Co., Ltd.
20th Floor, Metro Tower
Xuhui District Shanghai 200030
CN

74-8E-08 (hex) Bestek Corp.
748E08 (base 16) Bestek Corp.
No. 6, Lane 229, Sec. 3, Chang-Xing Rd.
Taoyuan 33852
TW

D8-DA-52 (hex) APATOR S.A.
D8DA52 (base 16) APATOR S.A.
ul Gdanska 4A lok. C4
Torun Kujawsko-Pomorskie 87-100
PL

58-7A-4D (hex) Stonesoft Corporation

587A4D (base 16) Stonesoft Corporation
Italahdenkatu 22A
Helsinki 00210
FI

F0-24-05 (hex) OPUS High Technology Corporation
F02405 (base 16) OPUS High
Technology Corporation
1st Floor, No. 367, Gaocui Road
Hsinchu City 30064
TW

D4-10-90 (hex) iNFORM Systems AG
D41090 (base 16) iNFORM Systems AG
Europastrasse 15
Glattbrugg 8152
CH

34-95-DB (hex) Logitec Corporation
3495DB (base 16) Logitec Corporation
8268 Rokudohara, Misuzu
Ina Nagano
JP

9C-B7-93 (hex) Creatcomm Technology Inc.
9CB793 (base 16) Creatcomm Technology Inc.
Rm 619, Buld A, Modern Plaza
Kunshan Jiangsu 201203
CN

5C-33-5C (hex) Swissphone Telecom AG
5C335C (base 16) Swissphone Telecom AG
Faelmisstrasse 21
Samstagern Zurich CH-8833
CH

78-D3-8D (hex) HONGKONG YUNLINK TECHNOLOGY LIMITED
78D38D (base 16) HONGKONG YUNLINK TECHNOLOGY LIMITED
15B 15/F CHEUK NANG PLAZA 250 HENNESSY RD HK
ShenzhenCity Guangdong Province 518103
US

10-78-CE (hex) Hanvit SI, Inc.
1078CE (base 16) Hanvit SI, Inc.
#201 Daeheung Building, 265-18 Yangjae-dong
Seoul
137130
KR

78-F5-E5 (hex) BEGA Gantenbrink-Leuchten KG
78F5E5 (base 16) BEGA Gantenbrink-Leuchten KG
Hennenbusch
Menden NRW 58708
DE

C4-7D-FE (hex) A.N. Solutions GmbH
C47DFE (base 16) A.N. Solutions GmbH
Am Brauhaus 12
Dresden Saxony 01099
DE

70-E0-27 (hex) HONGYU COMMUNICATION TECHNOLOGY LIMITED
70E027 (base 16) HONGYU COMMUNICATION TECHNOLOGY LIMITED
Room4B, East Building 210,
Shen Zhen Guang Dong Province 518040
CN

A0-9B-BD (hex) Total Aviation Solutions Pty Ltd
A09BBD (base 16) Total Aviation Solutions Pty Ltd
Suite 816A / 3 PARKLAND BVDE
Brisbane QLD 4000
AU

04-DF-69 (hex) Car Connectivity Consortium
04DF69 (base 16) Car Connectivity Consortium
3855 SW 153rd Drive
Beaverton Oregon 97006
US

78-D5-B5 (hex) NAVIELEKTRO KY
78D5B5 (base 16) NAVIELEKTRO KY
HALLIMESTARINKATU 11
KAARINA FIN-20780
FI

EC-D0-40 (hex) GEA Farm Technologies
GmbH
ECD040 (base 16) GEA Farm Technologies GmbH
Siemensstrasse 25-27
Boenen Northrhine-Westfalia 59199
DE

F8-0D-EA (hex) ZyCast Technology Inc.
F80DEA (base 16) ZyCast Technology Inc.
No.33, Lane 181, Chung Hwa Road,
Hsin Chu 30060

TW

B0-88-07 (hex) Strata Worldwide
B08807 (base 16) Strata Worldwide
8995 Roswell Road
Sandy Springs GA 30350
US

5C-F3-70 (hex) CC&C Technologies, Inc
5CF370 (base 16) CC&C Technologies, Inc
8F, 150, Chien I Rd.
Chung Ho Taiwan 235
TW

CC-BD-35 (hex) Steinel GmbH
CCBD35 (base 16) Steinel GmbH
Dieselstrasse 80-84
Herzebrock-Clarholz 33442
DE

6C-EC-A1 (hex) SHENZHEN CLOU ELECTRONICS CO. LTD.
6CECA1 (base 16) SHENZHEN CLOU ELECTRONICS CO. LTD.
5/F, building. T2, Hi-tech Industrial Park
SHENZ GUANGONG 518057
CN

10-5C-3B (hex) Perma-Pipe, Inc.
105C3B (base 16) Perma-Pipe, Inc.
7720 Lehigh Ave
Niles IL 60714
US

34-9D-90
(hex) Heinzmann GmbH & CO. KG
349D90 (base 16) Heinzmann GmbH & CO. KG
Am Haselbach 1
Schoenau Baden Wuertemberg 79677
DE

B0-38-50 (hex) Nanjing CAS-ZDC IOT SYSTEM CO.,LTD
B03850 (base 16) Nanjing CAS-ZDC IOT SYSTEM CO.,LTD
699-27 Xuanwu Avenue
Nanjing Jiangsu 210000
CN

A4-E0-E6 (hex) FILIZOLA S.A. PESAGEM E AUTOMACAO
A4E0E6 (base 16) FILIZOLA S.A. PESAGEM E AUTOMACAO
RUA JOAO VENTURA BATISTA, 450

SAO PAULO 02054-100
BR

DC-64-7C (hex) C.R.S. iiMotion GmbH
DC647C (base 16) C.R.S. iiMotion GmbH
Hermann-Schwer-Str. 3
Villingen-Schwenningen 78048
DE

14-86-92 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
148692 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

A8-15-4D (hex) TP-LINK TECHNOLOGIES CO.,LTD.
A8154D (base 16) TP-LINK TECHNOLOGIES
CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

D8-62-DB (hex) Eno Inc.
D862DB (base 16) Eno Inc.
2-3-18, Komagome, Toshima-ku
Tokyo 1700013
JP

8C-3C-07 (hex) Skiva Technologies, Inc.
8C3C07 (base 16) Skiva Technologies, Inc.
8330 Sterling St
Irving TX 75063
US

C0-C3-B6 (hex) Automatic Systems
C0C3B6 (base 16) Automatic Systems
avenue mercator,5
Wavre Belgium 1300
BE

A0-EB-76 (hex) AirCUVE Inc.
A0EB76 (base 16) AirCUVE Inc.
Guro-gu Digital-ro
Seoul 152-719
KR

FC-44-99 (hex) Swarco LEA d.o.o.
FC4499 (base 16) Swarco LEA d.o.o.

Finzgarjeva 1A
Lesce 4248
SI

E4-F7-A1 (hex) Datafox GmbH
E4F7A1 (base 16) Datafox GmbH
Dermbacher Str. 12 - 14
Geisa Thuringen 36419
DE

38-17-66 (hex) PROMZAKAZ LTD.
381766 (base 16) PROMZAKAZ LTD.
Noviy
Arbat street, 21
Moscow 119019
RU

14-41-E2 (hex) Monaco Enterprises, Inc.
1441E2 (base 16) Monaco Enterprises, Inc.
14820 E. Sprague Ave.
Spokane WA 99216
US

E4-7D-5A (hex) Beijing Hanbang Technology Corp.
E47D5A (base 16) Beijing Hanbang Technology Corp.
4/F,Skirt Building
Haidian District Beijing 100080
CN

38-A8-6B (hex) Orga BV
38A86B (base 16) Orga BV
Strickledeweg 13
Schiedam 3125 AT
NL

F0-77-65 (hex) Sourcefire, Inc
F07765 (base 16) Sourcefire, Inc
9780 Patuxent Woods Drive
Columbia Maryland 21046
US

24-95-04 (hex) SFR
249504 (base 16) SFR
40-42 QUAI DU POINT DU JOUR
BOULOGNE BILLANCOURT HAUT DE SEINE 92100
FR

F4-58-42 (hex) Boxx TV Ltd

F45842 (base 16) Boxx TV Ltd
Suite 17, Imperial Studios
London SW6 2AG
GB

10-66-82 (hex) NEC Platforms, Ltd.
106682 (base 16) NEC Platforms, Ltd.
800 Shimomata
Kakegawa Shizuoka 436-8501
JP

24-62-78
(hex) sysmocom - systems for mobile communications GmbH
246278 (base 16) sysmocom - systems for mobile communications GmbH
Alt-Moabit 93
Berlin 10559
DE

F0-84-C9 (hex) zte corporation
F084C9 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

D4-01-6D (hex) TP-LINK TECHNOLOGIES CO.,LTD.
D4016D (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

98-5C-93 (hex) SBG Systems SAS
985C93 (base 16) SBG Systems SAS
3bis, chemin de la Jonchere
Rueil Malmaison Ile de France 92500
FR

A0-8A-87 (hex) HuiZhou KaiYue Electronic Co.,Ltd
A08A87 (base 16) HuiZhou KaiYue Electronic Co.,Ltd
3#,Ruttang 2nd area,Tongcheng Avenue
Huizhou Guangdong 516005
CN

18-E8-DD (hex) MODULETEK
18E8DD
(base 16) MODULETEK
Unit 4A.4F.B Building. Shenfubao Science and Technology Industrial Park
Shenzhen Guangdong 518038
CN

D0-73-D5 (hex) LIFI LABS MANAGEMENT PTY LTD
D073D5 (base 16) LIFI LABS MANAGEMENT PTY LTD
7 Cubitt St
Richmond Victoria 3121
AU

14-94-48 (hex) BLU CASTLE S.A.
149448 (base 16) BLU CASTLE S.A.
5 RUE BONNEVOIE
LUXEMBOURG L-1260
US

48-F9-25 (hex) Maestronic
48F925 (base 16) Maestronic
Futura plaza 2103
Kwun Tong 88
HK

68-83-1A (hex) Pandora Mobility Corporation
68831A (base 16) Pandora Mobility Corporation
1F., No.33, Fude St
Taoyuan Guishan 333
TW

D4-29-EA (hex) Zimory GmbH
D429EA (base 16) Zimory GmbH
Revalerstrasse 100
Berlin Brandenburg 10245
DE

34-AD-E4 (hex) Shanghai Chint Power Systems Co., Ltd.
34ADE4 (base 16) Shanghai Chint Power Systems Co., Ltd.
855 Wenhe Road, Block 4
201614
CN

D8-1E-DE (hex) B&W
Group Ltd
D81EDE (base 16) B&W Group Ltd
5070 Francois Cusson
Lachine Quebec H8T1B3
CA

24-EA-40 (hex) Helmholz GmbH & Co. KG
24EA40 (base 16) Helmholz GmbH & Co. KG
Hannberger Weg 2
Grossenseebach BAY 91091

DE

FC-DB-96 (hex) ENERVALLEY CO., LTD
FCDB96 (base 16) ENERVALLEY CO., LTD
907-101 DIGITAL EMPIRE II
SUWON SI GYEONGGI DO 443 734
KR

14-23-D7 (hex) EUTRONIX CO., LTD.
1423D7 (base 16) EUTRONIX CO., LTD.
EUTRONIX BLDG. 4TH FLOOR
ANYANG KYEONGGI 431-804
US

38-67-93 (hex) Asia Optical Co., Inc.
386793 (base 16) Asia Optical Co., Inc.
No. 22-3 South 2nd Road, T.E.P.Z.
Taichung Taiwan 42754
TW

0C-82-68 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
0C8268 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

90-DA-4E (hex) AVANU
90DA4E (base 16) AVANU
5205
Prospect Rd
San Jose CA 95129-5034
US

28-18-78 (hex) Microsoft Corporation
281878 (base 16) Microsoft Corporation
One Microsoft Way
Redmond Washington 98052-6399
US

70-38-B4 (hex) Low Tech Solutions
7038B4 (base 16) Low Tech Solutions
350 N. Orleans
Chicago IL 60654
US

28-CD-9C (hex) Shenzhen Dynamax Software Development Co.,Ltd.
28CD9C (base 16) Shenzhen Dynamax Software Development Co.,Ltd.
Room 425-426,Block A,No.30,Hangkong Road

Shenzhen Guangdong 518000
CN

50-4F-94 (hex) Loxone Electronics GmbH
504F94 (base 16) Loxone Electronics GmbH
Falkensteinstraße 6
Kollerschlag Upper Austria 4154
AT

60-B1-85 (hex) ATH system
60B185 (base 16) ATH system
Osady Lezaku 498
Chrast 53851
CZ

74-5F-00 (hex) Samsung Semiconductor Inc.
745F00 (base 16) Samsung Semiconductor Inc.
3566 N. 1St Street
San Jose CA 95134
US

E0-C3-F3 (hex) zte
corporation
E0C3F3 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

5C-20-D0 (hex) Asoni Communication Co., Ltd.
5C20D0 (base 16) Asoni Communication Co., Ltd.
21F-1, No.97, Sec. 4, Chongsin Rd., Sanchong District
New Taipei City Taiwan 24161
TW

BC-62-9F (hex) Telenet Systems P. Ltd.
BC629F (base 16) Telenet Systems P. Ltd.
2 Mani Bhuvan, Cama Road
Mumbai Maharashtra 400086
IN

38-0F-E4 (hex) Dedicated Network Partners Oy
380FE4 (base 16) Dedicated Network Partners Oy
Linnoitustie 6
Espoo - 02600
FI

84-7A-88 (hex) HTC Corporation
847A88 (base 16) HTC Corporation

No. 23, Xinghua Rd., Taoyuan City
Taoyuan County Taiwan 330
TW

A4-D8-56 (hex) Gimbal, Inc
A4D856 (base 16) Gimbal, Inc
12526 High Bluff Drive
San Diego Ca 92130
US

78-55-17 (hex) SankyuElectronics
785517 (base 16) SankyuElectronics
2-30-12
Ohta-ku
Tokyo 146-0091
JP

B4-7F-5E (hex) Foresight Manufacture (S) Pte Ltd
B47F5E (base 16) Foresight Manufacture (S) Pte Ltd
1 Sims Lane #04-09
Singapore 387355
SG

44-18-4F (hex) Fitview
44184F (base 16) Fitview
5615 Scotts Valley Drive, Suite 110
Scotts Valley CA 95066
US

AC-A4-30 (hex) Peerless AV
ACA430 (base 16) Peerless AV
2300 White Oak Circle
Aurora illinios 60502
US

54-1F-D5 (hex) Advantage Electronics
541FD5 (base 16) Advantage Electronics
PO Box 407
Greenwood IN 46143
US

AC-E9-7F (hex) IoT Tech Limited
ACE97F (base 16) IoT Tech Limited
20b Lough Road
Lisburn Antrim BT28 2HA
GB

A0-FE-91 (hex) AVAT Automation GmbH

A0FE91 (base 16) AVAT Automation GmbH
Derendinger Strasse 40
Tuebingen 72072
DE

74-EC-F1 (hex) Acumen
74ECF1 (base 16) Acumen
6F, No.207-3, Sec 3, Beisin Rd
Sindian Dist New Taipei
City 23143
US

78-32-4F (hex) Millennium Group, Inc.
78324F (base 16) Millennium Group, Inc.
16 Tech Circle
Natick MA 01760
US

48-F2-30 (hex) Ubizcore Co.,LTD
48F230 (base 16) Ubizcore Co.,LTD
Kranz Techno #1420, Sangdaewon 1-dong
Seongnam-Si 462-729
KR

38-43-69 (hex) Patrol Products Consortium LLC
384369 (base 16) Patrol Products Consortium LLC
1128 Narragansett Blvd.
Cranston RI 02905
US

B8-5A-F7 (hex) Ouya, Inc
B85AF7 (base 16) Ouya, Inc
11693 San Vicente Blvd
Los Angeles CA 90049
US

84-AC-A4 (hex) Beijing Novel Super Digital TV Technology Co., Ltd
84ACA4 (base 16) Beijing Novel Super Digital TV Technology Co., Ltd
4F Tower B Jingmeng Hightech building
Beijing 100085
CN

58-09-E5 (hex) Kivic Inc.
5809E5 (base 16) Kivic Inc.
670 Sampyeong-dong, Bundang-gu
Seongnam City 463-400
KR

DC-6F-08 (hex) Bay Storage Technology
DC6F08 (base 16) Bay
Storage Technology
6200 Stoneridge Mall Road
Pleasanton CA 94588
US

58-D6-D3 (hex) Dairy Cheq Inc
58D6D3 (base 16) Dairy Cheq Inc
60 Baffin Place, Unit 5
Waterloo Ontario N2V 1Z7
CA

04-6E-49 (hex) TaiYear Electronic Technology (Suzhou) Co., Ltd
046E49 (base 16) TaiYear Electronic Technology (Suzhou) Co., Ltd
12-B101 Creative Industrial Park ,No. 328,Xinghu Street ,Suzhou Industrial Park
SuZhou JiangSu 215000
CN

E8-5A-A7 (hex) LLC Emzior
E85AA7 (base 16) LLC Emzior
Strelna, Svyazi street, 34, Lit A, of. 234
Saint-Petersburg 198515
RU

9C-9C-1D (hex) Starkey Labs Inc.
9C9C1D (base 16) Starkey Labs Inc.
6600 Washington Ave. S.
Eden Prairie MN 55344
US

9C-E1-D6 (hex) Junger Audio-Studiotechnik GmbH
9CE1D6 (base 16) Junger Audio-Studiotechnik GmbH
Justus-von-Liebig-Strasse 7
12489 Berlin
US

34-F6-2D (hex) SHARP Corporation
34F62D (base 16) SHARP
Corporation
1 Takumi-cho, Sakai-ku
Sakai City Osaka 590-8522
JP

4C-8F-A5 (hex) Jastec
4C8FA5 (base 16) Jastec
Jastec B/D 2F, 92-7 Kumgok-dong,
Boondang-gu, 463-804

KR

84-ED-33 (hex) BBMC Co.,Ltd
84ED33 (base 16) BBMC Co.,Ltd
#301, DaerungPostTower 3, 182-4,
Seoul None 152-746
KR

E8-2E-24 (hex) Out of the Fog Research LLC
E82E24 (base 16) Out of the Fog Research LLC
565 Clyde Avenue, Suite 620
Mountain View CA 94043
US

2C-3B-FD (hex) Netstor Technology Co., Ltd.
2C3BFD (base 16) Netstor Technology Co., Ltd.
6F, No. 1, Alley 16, Lane 235, Baoqiao Rd., Xindian District
New Taipei City 23145
US

1C-52-D6 (hex) FLAT DISPLAY TECHNOLOGY CORPORATION
1C52D6 (base 16) FLAT DISPLAY TECHNOLOGY CORPORATION
No.85, Sec. 1, Fuxing Rd., South Dist
Taichung 402
TW

D0-DF-B2 (hex) Genie Networks Limited
D0DFB2 (base 16) Genie Networks Limited
5F, No.15, Lane 360,
Sec., 1, Neihu Road,
Taipei 114
TW

38-66-45 (hex) OOSIC Technology CO.,Ltd
386645 (base 16) OOSIC Technology CO.,Ltd
8F,No 1559, Zuchongzhi Road
Shanghai 201203
CN

D0-D6-CC (hex) Wintop
D0D6CC (base 16) Wintop
No. 1301,Xinfei Road
Songjiang District Shanghai 201612
CN

58-D0-71 (hex) BW Broadcast
58D071 (base 16) BW Broadcast
Unit 27 IO Centre

Croydon Surrey CR0 4WQ
GB

80-FA-5B (hex) CLEVO CO.
80FA5B (base 16) CLEVO CO.
NO. 129, XINGDE ROAD
New TAIPEI CITY 241
TW

C0-B3-39 (hex) Comigo Ltd.
C0B339 (base 16) Comigo Ltd.
15 HaPardes St.
Yarkona 45915
IL

20-85-8C (hex) Assa
20858C (base 16) Assa
Gurogu Guro3dong Ace Twintower 2cha 209
Seoul 152-779
KR

80-07-A2 (hex) Esson Technology Inc.
8007A2 (base 16) Esson Technology Inc.
Room A2, 5F Longsheng Commericial Building,
Baoan District ShenZhen 518000
CN

C0-A0-E2 (hex) Eden
Innovations
C0A0E2 (base 16) Eden Innovations
ZAC
Eguilles PACA 13510
FR

6C-5A-34 (hex) Shenzhen Haitianxiong Electronic Co., Ltd.
6C5A34 (base 16) Shenzhen Haitianxiong Electronic Co., Ltd.
Rm.407, Block A, University-town Business Park, Taoyuan street, Lishan Road
Shenzhen Guangdong 518055
CN

DC-B0-58 (hex) Bürkert Werke GmbH
DCB058 (base 16) Bürkert Werke GmbH
Christian-Bürkert-Straße 13-17
Ingelfingen Baden-Württemberg 74653
DE

60-CD-C5 (hex) Taiwan Carol Electronics., Ltd
60CDC5 (base 16) Taiwan Carol Electronics., Ltd

No.202, Tung Kuang Road
Taichung Taiwan 40151
TW

D8-18-2B (hex) Conti Temic Microelectronic GmbH
D8182B (base 16) Conti Temic Microelectronic GmbH
Sieboldstraße 19
Nuremberg Bavaria 90411
DE

80-CF-41 (hex) Lenovo Mobile Communication Technology Ltd.
80CF41 (base 16) Lenovo Mobile Communication Technology Ltd.
No.999,Qishan North 2nd
Road,Information&Optoelectronics Park,Torch Hi-tech Industry Development Zone,
Xiamen Fujian 361006
US

90-38-DF (hex) Changzhou Tiannengbo System Co. Ltd.
9038DF (base 16) Changzhou Tiannengbo System Co. Ltd.
#9 East Hehai Road, RM 306
Changzhou Jiangsu Province 213000
CN

18-52-53 (hex) Pixord Corporation
185253 (base 16) Pixord Corporation
6F, No 12, Innovation 1st Road
Hsinchu 30076
TW

68-3B-1E (hex) Countwise LTD
683B1E (base 16) Countwise LTD
1149 Sawgrass Corporate Parkway
Sunrise Florida 33323
US

10-FB-F0 (hex) KangSheng LTD.
10FBF0 (base 16) KangSheng LTD.
2F., No.11,
New Taipei City 24889
TW

B4-9D-B4 (hex) Axion Technologies Inc.
B49DB4 (base 16) Axion Technologies Inc.
105-1203, 70, Jingeononam-ro
Namyangju Gyeonggi-do 472-859
KR

AC-E8-7E (hex) Bytemark Computer Consulting Ltd

ACE87E (base 16) Bytemark Computer Consulting Ltd
Unit 2
Opus
Avenue York YO26 6BL
GB

AC-A2-2C (hex) Baycity Technologies Ltd
ACA22C (base 16) Baycity Technologies Ltd
10 Nazareth Ave
Christchurch Canterbury 8024
NZ

6C-9A-C9 (hex) Valentine Research, Inc.
6C9AC9 (base 16) Valentine Research, Inc.
10280 Alliance Rd
Cincinnati OH 45242
US

08-0F-FA (hex) KSP INC.
080FFA (base 16) KSP INC.
RM 501, 138 Kwangdeokdae-ro
Danwon-gu, Ansan-si Gyeonggi-do 425906
KR

AC-3C-B4 (hex) Nilan A/S
AC3CB4 (base 16) Nilan A/S
Nilanvej 2
Hedensted Vejle amt 8722
DK

B8-5A-FE (hex) Handaer Communication Technology (Beijing) Co., Ltd
B85AFE (base 16) Handaer Communication Technology (Beijing) Co., Ltd
Jiancaicheng West Rd.65,Xisanqi,
Beijing 100096
CN

60-74-8D (hex) Atmaca Elektronik
60748D (base 16) Atmaca Elektronik
Namik Kemal Mahallesi 177, Sokak No:2
Istanbul Esenyurt 34510
TR

B8-B7-D7 (hex) 2GIG Technologies
B8B7D7
(base 16) 2GIG Technologies
2961 West Maple Loop Drive
Lehi Utah 84043
US

78-D1-29 (hex) Vicos
78D129 (base 16) Vicos
Eugenmuellerstrasse 14
Salzburg Salzburg 5020
AT

84-DF-0C (hex) NET2GRID BV
84DF0C (base 16) NET2GRID BV
Krullelaan 28
Zeist Utrecht 3701 TD
NL

78-AB-60 (hex) ABB Australia
78AB60 (base 16) ABB Australia
PMB 88
Berrimah NT 0828
AU

84-82-F4 (hex) Beijing Huasun Unicreate Technology Co., Ltd
8482F4 (base 16) Beijing Huasun Unicreate Technology Co., Ltd
North Region 6th Floor, Tower A, Huizhi Mansion,
Beijing 100085
CN

5C-D4-1B (hex) UCZOON Technology Co., LTD
5CD41B (base 16) UCZOON Technology Co., LTD
9 th Floor,Pan Gu Plaza,No.27 North 4 th Ring,
Beijing Beijing 100029
CN

CC-E7-98 (hex) My Social Stuff
CCE798 (base 16) My Social Stuff
Sint-Hubertussyraat 65
Berchem 2600
BE

A0-36-F0 (hex) Comprehensive Power
A036F0
(base 16) Comprehensive Power
420 Northboro Road Central
Marlborough MA 01752
US

18-0C-AC (hex) CANON INC.
180CAC (base 16) CANON INC.
3-30-2
Ohta-Ku Tokyo 146-8501

JP

AC-72-36 (hex) Lexking Technology Co., Ltd.
AC7236 (base 16) Lexking Technology Co., Ltd.
2F, No. 3, Baoqiang Road,
New Taipei City Taiwan 231111
TW

3C-D7-DA (hex) SK Mtek microelectronics(shenzhen)limited
3CD7DA (base 16) SK Mtek microelectronics(shenzhen)limited
12F, Micro-profit Building,South 6 road
Shenzhen Guangdong 518057
CN

04-F8-C2 (hex) Flaircomm Microelectronics, Inc.
04F8C2 (base 16) Flaircomm Microelectronics, Inc.
7F,Guomai Building,116 East JiangBin Ave
Fuzhou Fujian 350015
CN

80-82-87 (hex) ATCOM Technology Co.Ltd.
808287 (base 16) ATCOM Technology Co.Ltd.
A-2F, #3 , Crown industry buildings
Shenzhen Guang Dong 518040
US

28-A1-86 (hex) enblink
28A186 (base 16) enblink
Room
212 Building 105-1 SNU
SEOUL 151-742
KR

68-69-F2 (hex) ComAp s.r.o.
6869F2 (base 16) ComAp s.r.o.
Kundratka 17
Prague 18000
CZ

58-87-E2 (hex) Shenzhen Coship Electronics Co., Ltd.
5887E2 (base 16) Shenzhen Coship Electronics Co., Ltd.
Rainbow Bldg., North, Hi-Tech Industrial Park
Shenzhen Guangdong 518057
CN

F4-6D-E2 (hex) zte corporation
F46DE2 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China

shenzhen guangdong 518057
CN

38-8E-E7 (hex) Fanhattan LLC
388EE7 (base 16) Fanhattan LLC
489 S El Camino Real
San Mateo CA 94402
US

20-91-D9 (hex) I'M SPA
2091D9 (base 16) I'M SPA
VIA BIRON 102/3
MONTEVIALE VICENZA 36050
IT

14-1B-F0 (hex) Intellimedia Systems Ltd
141BF0 (base 16) Intellimedia Systems Ltd
Sandhill Barn
Washington West Sussex RH204TD
GB

30-32-94 (hex) W-IE-NE-R Plein & Baus GmbH
303294
(base 16) W-IE-NE-R Plein & Baus GmbH
Muellersbaum 20
Burscheid NRW 51399
US

7C-82-2D (hex) Nortec
7C822D (base 16) Nortec
2740 Fenton Rd
Ottawa ON K1T3T7
US

AC-8D-14 (hex) Smartrove Inc
AC8D14 (base 16) Smartrove Inc
19630 Allendale Ave.
Saratoga CA 95070
US

50-39-55 (hex) Cisco SPVTG
503955 (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

34-99-6F (hex) VPI Engineering
34996F (base 16) VPI Engineering

11814 S. Election Rd., Suite 200
Draper UT 84020
US

7C-D9-FE (hex) New Cosmos Electric Co., Ltd.
7CD9FE (base 16) New Cosmos Electric Co., Ltd.
2-5-4 Mitsuyanaka
Osaka Osaka-fu 532-0036
JP

CC-C1-04 (hex) Applied Technical Systems
CCC104 (base 16) Applied Technical Systems
P.O. Box 5705
Shreveport LA 71135
US

A4-B1-E9 (hex) Technicolor Delivery Technologies Belgium NV
A4B1E9 (base 16) Technicolor
Delivery Technologies Belgium NV
Prins Boudewijnlaan 47
Edegem - Belgium B-2650
BE

4C-72-B9 (hex) PEGATRON CORPORATION
4C72B9 (base 16) PEGATRON CORPORATION
5F No. 76, Ligong St., Beitou District
Taipei City Taiwan 112
TW

90-70-25 (hex) Garea Microsys Co.,Ltd.
907025 (base 16) Garea Microsys Co.,Ltd.
4th Floor, Building 2, Software Park
Suzhou Jiangsu 215163
CN

10-D1-DC (hex) INSTAR Deutschland GmbH
10D1DC (base 16) INSTAR Deutschland GmbH
Auf der Hostert 17
Huenstetten Bechtheim Hessen 65510
DE

2C-ED-EB (hex) Alpheus Digital Company Limited
2CEDEB (base 16) Alpheus Digital Company Limited
Room 2, 23/F Tak King Industrial building
Hong Kong 852
HK

00-DB-1E (hex) Albedo Telecom SL

00DB1E (base 16) Albedo Telecom SL
Joan d'Austria 112
Barcelona 08018
ES

34-AF-2C (hex) Nintendo Co., Ltd.
34AF2C (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO
KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

0C-DC-CC (hex) Inala Technologies
0CDCCC (base 16) Inala Technologies
Inala House, 557 15th Road
Midrand Gauteng 1685
ZA

98-29-1D (hex) Jaguar de Mexico, SA de CV
98291D (base 16) Jaguar de Mexico, SA de CV
Calle Tabla Grande No.2
Jilotzongo Estado de Mexico 54570
MX

0C-D9-96 (hex) Cisco Systems, Inc
0CD996 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

30-F3-3A (hex) +plugg srl
30F33A (base 16) +plugg srl
via giovanni ventura, 5
Milano MI 20134
IT

F8-A0-3D (hex) Dinstar Technologies Co., Ltd.
F8A03D (base 16) Dinstar Technologies Co., Ltd.
Floor 6, Guoxing Building
shenzhen Guangdong 518052
US

2C-D4-44 (hex) FUJITSU LIMITED
2CD444 (base 16) FUJITSU LIMITED
403, Kosugi-cho 1-chome, Nakahara-ku
Kawasaki Kanagawa 211-0063
JP

0C-57-EB (hex) Mueller Systems
0C57EB (base
16) Mueller Systems
48 Leona Drive, Suite C
Middleboro MA 02346
US

74-53-27 (hex) COMMSEN CO., LIMITED
745327 (base 16) COMMSEN CO., LIMITED
12/F., San Toi Building,139 Connaught Road Central
999077
HK

D0-8C-FF (hex) UPWIS AB
D08CFF (base 16) UPWIS AB
Box 3000
Uppsala Uppsala 75003
SE

68-D1-FD (hex) Shenzhen Trimax Technology Co.,Ltd
68D1FD (base 16) Shenzhen Trimax Technology Co.,Ltd
Room 1016, 10F, Max Smart Commercial Center,
Shenzhen Guangdong 518133
CN

BC-28-D6 (hex) Rowley Associates Limited
BC28D6 (base 16) Rowley Associates Limited
Suite 4B/4C Drake House
Dursley Gloucestershire GL11 4HH
GB

10-BD-18 (hex) Cisco Systems, Inc
10BD18 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

58-69-F9 (hex) Fusion Transactive Ltd.
5869F9 (base 16) Fusion Transactive Ltd.
PO Box 68281
Auckland 1145
NZ

D4-1E-35
(hex) TOHO Electronics INC.
D41E35 (base 16) TOHO Electronics INC.
1-13-21 Tanashioda, Chuo-Ku
Sagamihara-City Kanagawa 252-0245

JP

98-A7-B0 (hex) MCST ZAO
98A7B0 (base 16) MCST ZAO
35/50, Nizhnyaya Krasnoselskaya St.,
Moscow 105666
RU

8C-C7-AA (hex) Radinet Communications Inc.
8CC7AA (base 16) Radinet Communications Inc.
7F-2, No.229, Fuxing 2nd Rd, Zhubei, 30271
Hsinchu Taiwan 30271
US

40-33-6C (hex) Godrej & Boyce Mfg. co. ltd
40336C (base 16) Godrej & Boyce Mfg. co. ltd
PSS TECH CELL, 2ND FLOOR, PLANT 17, SECURITY SOLUTIONS DIVISION
MUMBAI MAHARASHTRA 400079
IN

E8-56-D6 (hex) NCTech Ltd
E856D6 (base 16) NCTech Ltd
20-22 Braid Road
Edinburgh EH10 6AD
GB

C0-81-70 (hex) Effigis GeoSolutions
C08170 (base 16) Effigis GeoSolutions
4101, rue Molson
Montreal Quebec H1Y3L1
CA

60-45-5E (hex) Liptel s.r.o.
60455E (base 16) Liptel s.r.o.
Hradna 338
Liptovsky
Hradok 03301
SK

D8-06-D1 (hex) Honeywell Fire System (Shanghai) Co,. Ltd.
D806D1 (base 16) Honeywell Fire System (Shanghai) Co,. Ltd.
No. 430, Li Bing Road, Pudong
Shanghai Shanghai 201203
CN

64-76-57 (hex) Innovative Security Designs
647657 (base 16) Innovative Security Designs
18 Technology Drive

Irvine CA 92618
US

94-4A-09 (hex) BitWise Controls
944A09 (base 16) BitWise Controls
98 Inverness Dr East
Englewood CO 80112
US

9C-06-6E (hex) Hytera Communications Corporation Limited
9C066E (base 16) Hytera Communications Corporation Limited
Hytera Tower, Hi-Tech Industrial Park North, Nanshan District
Shenzhen Guangdong 518057
US

44-38-39 (hex) Cumulus Networks, inc
443839 (base 16) Cumulus Networks, inc
650 Castro Street, suite 120-245
Mountain View CA 94041
US

D8-67-D9 (hex) Cisco Systems, Inc
D867D9 (base 16) Cisco Systems, Inc
80 West
Tasman Drive
San Jose CA 94568
US

64-22-16 (hex) Shandong Taixin Electronic co.,Ltd
642216 (base 16) Shandong Taixin Electronic co.,Ltd
FL.6,Haichen Building
Jinan Shandong 250010
CN

A4-E7-31 (hex) Nokia Corporation
A4E731 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

3C-EA-FB (hex) NSE AG
3CEAFB (base 16) NSE AG
Bremgarterstrasse 54
Wohlen AG 5610
CH

BC-81-1F (hex) Ingate Systems
BC811F (base 16) Ingate Systems

Rissneleden 45
Sundbyberg 17444
SE

4C-06-8A (hex) Basler Electric Company
4C068A (base 16) Basler Electric Company
12570 State Route 143
Highland Illinois 62249
US

A4-4C-11 (hex) Cisco Systems, Inc
A44C11 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

60-84-3B (hex) Soladigm, Inc.
60843B (base 16) Soladigm, Inc.
195. S Milpitas Blvd
Milpitas CA 95035
US

20-9B-A5 (hex) JIAXING
GLEAD Electronics Co.,Ltd
209BA5 (base 16) JIAXING GLEAD Electronics Co.,Ltd
No.66 Zhengyuan Road in Tanghu Industrial Garden
Jiaxing Zhejiang 314003
CN

A0-F4-50 (hex) HTC Corporation
A0F450 (base 16) HTC Corporation
No. 23, Xinghua Rd., Taoyuan City
Taoyuan County Taiwan 330
TW

60-89-B1 (hex) Key Digital Systems
6089B1 (base 16) Key Digital Systems
521 E 3rd Street
Mount Vernon NY 10553
US

44-D1-5E (hex) Shanghai Kingto Information Technology Ltd
44D15E (base 16) Shanghai Kingto Information Technology Ltd
No.738 Guangji RD.3F shanghai.china
shanghai 200434
CN

68-D9-25 (hex) ProSys Development Services

68D925 (base 16) ProSys Development Services
Mill House
Mitcham Surrey CR4 4HY
GB

84-8D-84 (hex) Rajant Corporation
848D84 (base 16) Rajant Corporation
400 East King Street
Malvern PA 19355
US

D8-33-7F (hex) Office FA.com Co.,Ltd.
D8337F
(base 16) Office FA.com Co.,Ltd.
293-21
Oyama-shi Tochigi 329-0216
JP

00-36-F8 (hex) Conti Temic microelectronic GmbH
0036F8 (base 16) Conti Temic microelectronic GmbH
Dornierstraße 1
Markdorf 88677
DE

AC-94-03 (hex) Envision Peripherals Inc
AC9403 (base 16) Envision Peripherals Inc
47490 Seabridge Dr
Fremont California 94538
US

04-8B-42 (hex) Sksprucе Technologies
048B42 (base 16) Sksprucе Technologies
A1, Tianfu Software Park, 1129 Century City Road
High-tech Zone, Chengdu Sichuan 610041
CN

50-76-A6 (hex) Ecil Informatica Ind. Com. Ltda
5076A6 (base 16) Ecil Informatica Ind. Com. Ltda
Av. Araguacema, 388
Barueri São Paulo 06460-070
BR

A4-F7-D0 (hex) LAN Accessories Co., Ltd.
A4F7D0 (base 16) LAN Accessories Co., Ltd.
8F-1, No. 159, Sec. 1 Hsin Tai Wu Road,
New Taipei City, 221
US

00-36-FE (hex) SuperVision
0036FE (base 16) SuperVision
po
box 3472
palos verdes CA 90274
US

54-46-6B (hex) Shenzhen CZTIC Electronic Technology Co., Ltd
54466B (base 16) Shenzhen CZTIC Electronic Technology Co., Ltd
Xinghe Building, Zhongxin Road, Shajing Town, Baoan
SHENZHEN GUANGDONG 518104
CN

44-B3-82 (hex) Kuang-chi Institute of Advanced Technology
44B382 (base 16) Kuang-chi Institute of Advanced Technology
Software building, Gaoxingzhong 1st Road,
Shenzhen Guangdong 518057
CN

70-9E-86 (hex) X6D Limited
709E86 (base 16) X6D Limited
199, Arch. Makariou III
Limassol 3030
CY

A0-F4-19 (hex) Nokia Corporation
A0F419 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

1C-97-3D (hex) PRICOM Design
1C973D (base 16) PRICOM Design
2755 Slocum Rd
Peyton CO 80831
US

BC-02-00 (hex) Stewart Audio
BC0200 (base 16) Stewart Audio
100 West El Camino Real
Mountain View CA 94041
US

D4-EC-0C (hex) Harley-Davidson
Motor Company
D4EC0C (base 16) Harley-Davidson Motor Company
3700 W. Juneau Avenue
Milwaukee Wisconsin 53208

US

6C-A9-6F (hex) TransPacket AS
6CA96F (base 16) TransPacket AS
Drammensveien 134
Oslo 0277
NO

AC-01-42 (hex) Uriel Technologies SIA
AC0142 (base 16) Uriel Technologies SIA
Dzerbenes iela 14
Riga LV-1006
LV

60-B9-33 (hex) Deutron Electronics Corp.
60B933 (base 16) Deutron Electronics Corp.
8F, 68, Sec. 3, Nanking E. Rd.
Taipei Taiwan 104
TW

48-91-53 (hex) Weinmann Geräte für Medizin GmbH + Co. KG
489153 (base 16) Weinmann Geräte für Medizin GmbH + Co. KG
Kronsaalsweg 40
Hamburg D-22525
DE

F4-48-48 (hex) Amscreen Group Ltd
F44848 (base 16) Amscreen Group Ltd
Paragon Business Park
Bolton Lancs BL6 6HG
GB

50-D2-74 (hex) Steffes Corporation
50D274 (base 16) Steffes Corporation
3050 Highway 22 North
Dickinson
ND 58601
US

F8-50-63 (hex) Verathon
F85063 (base 16) Verathon
20001 N Creek Pkwy
Bothell WA 98011
US

F0-D1-4F (hex) LINEAR LLC
F0D14F (base 16) LINEAR LLC
5919 Sea Otter Place

Carlsbad CA 92010
US

00-43-FF (hex) KETRON S.R.L.
0043FF (base 16) KETRON S.R.L.
Via Giuseppe Taliercio n. 7
Ancona 60131
IT

7C-AC-B2 (hex) Bosch Software Innovations GmbH
7CACB2 (base 16) Bosch Software Innovations GmbH
Ziegelei 7
Immenstaad BadenWuertemberg 88090
DE

5C-6F-4F (hex) S.A. SISTEL
5C6F4F (base 16) S.A. SISTEL
C/SOLSONES, 87
CASTELLAR DEL VALLES BARCELONA 08211
ES

90-1B-0E (hex) Fujitsu Technology Solutions GmbH
901B0E (base 16) Fujitsu Technology Solutions GmbH
Buergermeister-Ulrich-Strasse 100
Augsburg Bayern 86199
DE

2C-36-F8 (hex) Cisco Systems, Inc
2C36F8 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

58-08-FA
(hex) Fiber Optic & telecommunication INC.
5808FA (base 16) Fiber Optic & telecommunication INC.
161-4 Kumjeong-Dong,
Kunpo-city Gyeonggi-Do 435-824
KR

84-57-87 (hex) DVR C&C Co., Ltd.
845787 (base 16) DVR C&C Co., Ltd.
7F 720 Namkwang Centlex Bldg, Cheongcheon-dong, Bupyeong-gu
Incheon 403-030
KR

C8-56-45 (hex) Intermas France
C85645 (base 16) Intermas France

Rue de l'industrie
Beauvais Oise 60000
FR

44-34-8F (hex) MXT INDUSTRIAL LTDA
44348F (base 16) MXT INDUSTRIAL LTDA
RODOVIA BR 381, KM 490, JARDIM DAS ALTEROSAS
BETIM MINAS GERAIS 32670790
BR

C4-7B-A3 (hex) NAVIS Inc.
C47BA3 (base 16) NAVIS Inc.
Dmitrovskoe shosse 157
Moscow 127411
RU

C8-F7-04 (hex) Building Block Video
C8F704 (base 16) Building Block Video
17 APex Park
Hailsham East Sussex BN27 2JU
GB

50-8A-42 (hex) Uptmate Technology Co., LTD
508A42 (base 16) Uptmate Technology Co.,
LTD
6F., No.5, Jian 1st Rd.,Zhonghe Dist.,
New Taipei City 23558
TW

BC-EA-2B (hex) CityCom GmbH
BCEA2B (base 16) CityCom GmbH
Am Kroit 25
Amerang Bavaria 83123
DE

18-D6-6A (hex) Inmarsat
18D66A (base 16) Inmarsat
99 City Road
London EC1Y 1AX
GB

28-E6-08 (hex) Tokheim
28E608 (base 16) Tokheim
Industrieweg 5
Bladel NBr 5531 AD
NL

74-FF-7D (hex) Wren Sound Systems, LLC

74FF7D (base 16) Wren Sound Systems, LLC
169 Gateshead Way
Phoenixville PA 19460
US

AC-F0-B2 (hex) Becker Electronics Taiwan Ltd.
ACF0B2 (base 16) Becker Electronics Taiwan Ltd.
No.32, Lane 30, Long Yuan Rd.
Long-Tan Taoyuan 32544
TW

54-2A-9C (hex) LSY Defense, LLC.
542A9C (base 16) LSY Defense, LLC.
4175 Westport Rd.
Louisville Kentucky 40207
US

50-4A-5E (hex) Masimo Corporation
504A5E (base 16) Masimo Corporation
40 Parker
Irvine California 92618
US

1C-7C-45
(hex) Vitek Industrial Video Products, Inc.
1C7C45 (base 16) Vitek Industrial Video Products, Inc.
28492 Constellation Rd
Valencia CA 91355
US

3C-38-88 (hex) ConnectQuest, llc
3C3888 (base 16) ConnectQuest, llc
P.O. Box 425
West Simsbury Connecticut 06092
US

48-D7-FF (hex) BLANKOM Antennentechnik GmbH
48D7FF (base 16) BLANKOM Antennentechnik GmbH
Hermann-Petersilge Str. 1
Bad Blankenburg TH 07422
DE

C4-71-30 (hex) Fon Technology S.L.
C47130 (base 16) Fon Technology S.L.
Avda. Bruselas, n. 7, Planta 3, Alcobendas
Madrid 28100
ES

AC-3D-05 (hex) Instorescreen Aisa
AC3D05 (base 16) Instorescreen Aisa
Room 207, North Bldg,No 28
Shanghai 200237
CN

00-D6-32 (hex) GE Energy
00D632 (base 16) GE Energy
Lissue Industrial Estate East
Lisburn Co Antrim BT28 2RE
GB

C4-3C-3C (hex) CYBELEC SA
C43C3C (base 16) CYBELEC SA
Rue des Uttins 27
Yverdon-les-Bains
1401
CH

B8-26-D4 (hex) Furukawa Industrial S.A. Produtos Elétricos
B826D4 (base 16) Furukawa Industrial S.A. Produtos Elétricos
Rua Hasdrubal Bellegard, 820
Parana 81460-120
BR

B8-74-47 (hex) Convergence Technologies
B87447 (base 16) Convergence Technologies
16W215 83rd Street Suite D
Burr Ridge IL 60527
US

D0-1A-A7 (hex) UniPrint
D01AA7 (base 16) UniPrint
Unit 309, 1 Eva Road
Toronto Ontario M9C 4Z5
CA

E0-5D-A6 (hex) Detlef Fink Elektronik & Softwareentwicklung
E05DA6 (base 16) Detlef Fink Elektronik & Softwareentwicklung
Brühlstraße 13
Mössingen 72116
DE

84-6A-ED (hex) Wireless Tsukamoto.,co.LTD
846AED (base 16) Wireless Tsukamoto.,co.LTD
16-21 1chome,Isoyama
Suzuka Mie-pref 5100256
JP

74-63-DF (hex) VTS GmbH
7463DF (base 16) VTS GmbH
Am Königholz Ost 4
Eglhausen Bavaria 85411
DE

BC-12-5E (hex) Beijing WisVideo
INC.
BC125E (base 16) Beijing WisVideo INC.
RM 3A08 Technology&Fortune Center A block No.8 Xue Qing Road,Haidian District ,
Beijing 100192
CN

14-E4-EC (hex) mLogic LLC
14E4EC (base 16) mLogic LLC
8440 Warner Drive
Culver City CA 90232
US

38-28-EA (hex) Fujian Netcom Technology Co., LTD
3828EA (base 16) Fujian Netcom Technology Co., LTD
Netcom Technology Building, B Zone:Tongpan Software Park,
Fuzhou Fujian 350003
CN

04-5A-95 (hex) Nokia Corporation
045A95 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

04-F4-BC (hex) Xena Networks
04F4BC (base 16) Xena Networks
Graabroedretorv 6, 3. sal
København Danmark 1154
DK

6C-3A-84 (hex) Shenzhen Aero-Startech. Co.Ltd
6C3A84 (base 16) Shenzhen Aero-Startech. Co.Ltd
F3-4, Building3,Zhongyuntai Industrial Park.Shiyan Town.,
Shenzhen Guangdong 518108
CN

0C-9E-91 (hex) Sankosha Corporation
0C9E91
(base 16) Sankosha Corporation
1-12, Miyashimo

Sagamihara-shi Kanagawa-ken 252-0212
JP

C8-F9-F9 (hex) Cisco Systems, Inc
C8F9F9 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

80-DB-31 (hex) Power Quotient International Co., Ltd.
80DB31 (base 16) Power Quotient International Co., Ltd.
8F., No. 49, Sec. 4, Jhongyang Rd., Tu Cheng Dist.,
New Taipei City 23675
TW

1C-51-B5 (hex) Techaya LTD
1C51B5 (base 16) Techaya LTD
P.O.B 1500
Pardes Hanna 3700
IL

A4-56-30 (hex) Cisco Systems, Inc
A45630 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

28-60-94 (hex) CAPELEC
286094 (base 16) CAPELEC
1130 rue des Marels
Montpellier Hérault 34000
FR

38-3F-10 (hex) DBL Technology Ltd.
383F10 (base 16) DBL Technology Ltd.
Unit 42, 18/F., Block D, Wah Lok Industrial Center

HK

AC-D3-64 (hex) ABB SPA,
ABB SACE DIV.
ACD364 (base 16) ABB SPA, ABB SACE DIV.
V.LE DELL'INDUSTRIA, 18
VITTUONE MI 20010
IT

A4-EF-52 (hex) Telewave Co., Ltd.
A4EF52 (base 16) Telewave Co., Ltd.

A-203, SK Twintech Tower
Seoul 153-773
KR

A8-26-D9 (hex) HTC Corporation
A826D9 (base 16) HTC Corporation
No. 23, Xinghua Rd., Taoyuan City
Taoyuan County Taiwan 330
TW

28-94-0F (hex) Cisco Systems, Inc
28940F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

B8-DA-F7 (hex) Advanced Photonics, Inc.
B8DAF7 (base 16) Advanced Photonics, Inc.
the University of Tokyo, CCR507
Meguro-ku Tokyo 153-8904
JP

14-3A-EA (hex) Dynapower Company LLC
143AEA (base 16) Dynapower Company LLC
85 Meadowland Drive
South Burlington VT 05403
US

B4-D8-A9 (hex) BetterBots
B4D8A9 (base 16) BetterBots
1600 Wilson Way SE, Ste. 9
Smyrna GA 30082
US

7C-C8-D7 (hex) Damalisk
7CC8D7
(base 16) Damalisk
Coriolis 2
ECUISSES 71210
FR

94-2E-17 (hex) Schneider Electric Canada Inc
942E17 (base 16) Schneider Electric Canada Inc
1400 industrielle street
La Prairie Quebec J5R 2E5
CA

9C-B0-08 (hex) Ubiquitous Computing Technology Corporation

9CB008 (base 16) Ubiquitous Computing Technology Corporation
2-20-1 Nishi-Gotanda
Shinagawa-ku Tokyo 1410031
JP

A8-77-6F (hex) Zonoff
A8776F (base 16) Zonoff
70E Swedesford Rd
Malvern PA 19355
US

00-FA-3B (hex) CLOOS ELECTRONIC GMBH
00FA3B (base 16) CLOOS ELECTRONIC GMBH
Jambe ducommun 8
LE LOCLE 2400
CH

CC-94-4A (hex) Pfeiffer Vacuum GmbH
CC944A (base 16) Pfeiffer Vacuum GmbH
Berliner Str. 43
Asslar Hessen 35614
DE

0C-85-25 (hex) Cisco Systems, Inc
0C8525 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

C4-60-44 (hex) Everex Electronics Limited
C46044
(base 16) Everex Electronics Limited
Unit 3, Block A, 16/F

HK

98-FE-03 (hex) Ericsson - North America
98FE03 (base 16) Ericsson - North America
6300 Legacy Drive
Plano TX 75024
US

20-AA-4B (hex) Cisco-Linksys, LLC
20AA4B (base 16) Cisco-Linksys, LLC
121 Theory Drive
Irvine California 92612
US

2C-EE-26 (hex) Petroleum Geo-Services
2CEE26 (base 16) Petroleum Geo-Services
12555 Harris Branch Pkwy
Austin TX 78653
US

A0-86-EC (hex) SAEHAN HITEC Co., Ltd
A086EC (base 16) SAEHAN HITEC Co., Ltd
16-3, Yongsu-ri, Chowol-eup
Gwangju-si, Gyeonggi-do 464-865
KR

E0-3C-5B (hex) SHENZHEN JIAXINJIE ELECTRON CO.,LTD
E03C5B (base 16) SHENZHEN JIAXINJIE ELECTRON CO.,LTD
Shenzhen Jiaxinjie Security Industrial park,No 6 Xin He Xin xing Industrial Park, Fuyong Town,Bao'an District
SHENZHEN GUANGDONG 518103
CN

28-38-CF (hex) Gen2wave
2838CF (base 16) Gen2wave
Gumi-dong,
Bundang-gu
Seongnam-si Gyeonggi-do 463-741
KR

60-B6-06 (hex) Phorus
60B606 (base 16) Phorus
16255 Ventura Boulevard, Suite 310
Encino CA 91436
US

90-92-B4 (hex) Diehl BGT Defence GmbH & Co. KG
9092B4 (base 16) Diehl BGT Defence GmbH & Co. KG
Alte Nussdorfer Strasse 13
Ueberlingen 88662
DE

FC-45-5F (hex) JIANGXI SHANSHUI OPTOELECTRONIC TECHNOLOGY CO.,LTD
FC455F (base 16) JIANGXI SHANSHUI OPTOELECTRONIC TECHNOLOGY CO.,LTD
No.1010,Anping Road,Eco-Industrial Park,Lushan District
Jiujiang Jiangxi 332000
CN

F0-4A-2B (hex) PYRAMID Computer GmbH
F04A2B (base 16) PYRAMID Computer GmbH
Boetzinger Strasse 60
Freiburg BW 79111
DE

A8-5B-F3 (hex) Audivo GmbH
A85BF3 (base 16) Audivo GmbH
Irrenloher Damm 17
Schwarzenfeld 92521
DE

B8-97-5A (hex) BIOSTAR Microtech Int'l Corp.
B8975A (base 16) BIOSTAR Microtech Int'l Corp.
2Fl. No. 108-2, Min Chuan
Road, Hsin Tien Dist.,
New Taipei 231
TW

48-33-DD (hex) ZENNIO AVANCE Y TECNOLOGIA, S.L.
4833DD (base 16) ZENNIO AVANCE Y TECNOLOGIA, S.L.
RIO JARAMA 132 NAVE P8.11
TOLEDO 45007
ES

10-FC-54 (hex) Shany Electronic Co., Ltd.
10FC54 (base 16) Shany Electronic Co., Ltd.
4F, No. 92, Section 1, Nei-Hu Road
Taipei 114
TW

C0-29-73 (hex) Audyssey Laboratories Inc.
C02973 (base 16) Audyssey Laboratories Inc.
110 E. 9th Street, Suite C700
Los Angeles CA 90079
US

24-BC-82 (hex) Dali Wireless, Inc.
24BC82 (base 16) Dali Wireless, Inc.
125 University Avenue, Suite 88
Palo Alto CA 94301
US

08-75-72 (hex) Obelux Oy
087572 (base 16) Obelux Oy
Kutomotie 6 B
Helsinki 00380
FI

10-C2-BA (hex) UTT Co., Ltd.
10C2BA (base 16) UTT Co., Ltd.

Seoul Korea 135-913

KR

90-D7-4F (hex) Bookeen
90D74F (base 16) Bookeen
27, rue de la Vistule
Paris
75013
FR

64-C5-AA (hex) South African Broadcasting Corporation
64C5AA (base 16) South African Broadcasting Corporation
77 Twickenham Avenue
Auckland Park Gauteng 2006
ZA

CC-6D-EF (hex) TJK Tietolaite Oy
CC6DEF (base 16) TJK Tietolaite Oy
PL 443
Vaasa 65101
FI

9C-53-CD (hex) ENGICAM s.r.l.
9C53CD (base 16) ENGICAM s.r.l.
Via Dei Pratoni n.16
Scandicci FIRENZE 50018
IT

60-86-45 (hex) Avery Weigh-Tronix, LLC
608645 (base 16) Avery Weigh-Tronix, LLC
1000 Armstrong Drive
Fairmont MN 56031
US

FC-8F-C4 (hex) Intelligent Technology Inc.
FC8FC4 (base 16) Intelligent Technology Inc.
Yuanhe 3 Street,Tongsha Industrial Zone,
Dongguan Guangdong 523127
CN

54-1D-FB (hex) Freestyle Energy Ltd
541DFB (base 16) Freestyle Energy Ltd
18-24 Ricketts Road
Mount Waverley Victoria 3149
AU

24-C0-B3 (hex) RSF
24C0B3 (base 16) RSF
45 Av Marcel Dassault

Toulouse
Garonne, Haute (31) 31500
FR

60-35-53 (hex) Buwon Technology
603553 (base 16) Buwon Technology
(Cunuitechnopark 102-1507) 200-1,Chunui-dong
Buchon-si Gyeinggi-do 420-857
KR

98-AA-D7 (hex) BLUE WAVE NETWORKING CO LTD
98AAD7 (base 16) BLUE WAVE NETWORKING CO LTD
No. 20, Lane 68, Da-feng RD,
NEW TAIPEI TAIPEI 23121
TW

7C-33-6E (hex) MEG Electronics Inc.
7C336E (base 16) MEG Electronics Inc.
Bogazici Universitesi Kuzey Kampus
ISTANBUL 34342
TR

B4-0C-25 (hex) Palo Alto Networks
B40C25 (base 16) Palo Alto Networks
3000 Tannery Way
Santa Clara CA 95054
US

E0-39-D7 (hex) Plexxi, Inc.
E039D7 (base 16) Plexxi, Inc.
100 Innovative Way Suite 3322
Nashua NH 03062
US

50-0B-32 (hex) Foxda Technology Industrial(ShenZhen)Co.,LTD
500B32 (base 16) Foxda Technology Industrial(ShenZhen)Co.,LTD
1F of 1st Building&1F-3F of 2nd Building, Foxda Industrial Zone,North
of Lanzhu Road,Pingshan New District,Shenzhen City,Guangdong Province,P.R.China
Shenzhen Guangdong 518122
CN

30-2D-E8 (hex) JDA, LLC (JDA Systems)
302DE8 (base 16) JDA, LLC (JDA Systems)
4080 Pike Lane
Concord CA 94520
US

48-A6-D2 (hex) GJsun Optical Science and Tech Co.,Ltd.

48A6D2 (base 16) GJsun Optical Science and Tech Co.,Ltd.
First floor National Information Industry Park D-08
Guilin Guangxi 541004
CN

68-CD-0F (hex) U Tek Company Limited
68CD0F (base 16) U Tek Company Limited
FL5, BLDG12, 3RD DISTRICT, TANGTOU INDUSTRIAL PARK
SHENZHEN GUANGDONG 518018
CN

A4-E3-91 (hex) DENY FONTAINE
A4E391 (base 16) DENY FONTAINE
ROUTE DE SAINT VALERY
SAINT BLIMONT 80960
FR

60-3F-C5 (hex) COX CO., LTD
603FC5 (base 16) COX CO., LTD
904HO, ACE TWIN TOWER 1-CHA
SEOUL 152-779
KR

AC-6F-D9 (hex) Valueplus Inc.
AC6FD9 (base 16) Valueplus Inc.
#803, Sicox Tower,
513-14,
Seongnam-si Gyeonggi-do 462-806
KR

DC-1E-A3 (hex) Accensus LLC
DC1EA3 (base 16) Accensus LLC
200 South Wacker Drive
Chicago IL 60606
US

A4-01-30 (hex) ABIsystems Co., LTD
A40130 (base 16) ABIsystems Co., LTD
308 ACE Techno Tower8 191-7 Guro-dong
Seoul
KR

90-A7-83 (hex) JSW PACIFIC CORPORATION
90A783 (base 16) JSW PACIFIC CORPORATION
3F-3, No.700, Chung-Zheng Rd, Zhonghe District
New Taipei City 235
TW

28-AF-0A (hex) Sirius XM Radio Inc
28AF0A (base 16) Sirius XM Radio Inc
1221 Avenue of the Americas
New York NY 10020
US

5C-D4-AB (hex) Zektor
5CD4AB (base 16) Zektor
12675 Danielson Ct. Ste 401
Poway CA 92064
US

64-E8-4F (hex) Serialway Communication Technology Co. Ltd
64E84F (base 16) Serialway Communication Technology Co. Ltd
Room 315, 706 Painting Room,
Beijing 100096
CN

2C-9E-FC (hex) CANON INC.
2C9EFC (base 16) CANON
INC.
3-30-2
Ohta-Ku Tokyo 146-8501
JP

08-FC-52 (hex) OpenXS BV
08FC52 (base 16) OpenXS BV
Koaibosk 3
Terwispel Friesland 8407ED
NL

F8-46-2D (hex) SYNTEC Incorporation
F8462D (base 16) SYNTEC Incorporation
3F, NO.105, Shing-shyue St.,
Hsinchu 300
TW

78-A5-DD (hex) Shenzhen Smarteye Digital Electronics Co., Ltd
78A5DD (base 16) Shenzhen Smarteye Digital Electronics Co., Ltd
#6 Northen Area
Shenzhen Guangdong 518129
CN

EC-E7-44 (hex) Omntec mfg. inc
ECE744 (base 16) Omntec mfg. inc
2420 Pond Road.
Ronkonkoma NY 11779
US

08-A1-2B (hex) ShenZhen EZL Technology Co., Ltd
08A12B (base 16) ShenZhen EZL Technology Co., Ltd
RM21B, Building 2, China Phoenix Building,
ShenZhen GuangDong 518026
CN

A0-0C-A1 (hex) SKTB SKiT
A00CA1 (base 16) SKTB SKiT
239 B. Sadovaya Str.
Saratov Saratov region 410005
RU

4C-32-D9 (hex) M Rutty Holdings Pty.
Ltd.
4C32D9 (base 16) M Rutty Holdings Pty. Ltd.
Unit 1, 4 Beaumont Road
Mount Kuring-Gai New South Wales 2080
AU

D4-E3-3F (hex) Nokia
D4E33F (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

28-D1-AF (hex) Nokia Corporation
28D1AF (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

F8-F7-D3 (hex) International Communications Corporation
F8F7D3 (base 16) International Communications Corporation
11801 Pierce St. 2nd FL
Riverside CA 92505
US

18-2B-05 (hex) 8D Technologies
182B05 (base 16) 8D Technologies
416, de Maisonneuve West
Montreal, Quebec H3A 1L2
CA

24-0B-B1 (hex) KOSTAL Industrie Elektrik GmbH
240BB1 (base 16) KOSTAL Industrie Elektrik GmbH
Gewerbering 20
Schalksmuehle North Rhine-Westphalia 58579

DE

20-EE-C6 (hex) Elefirst Science & Tech Co ., ltd
20EEC6 (base 16) Elefirst Science & Tech Co ., ltd
Floor 9, No 77
Zijinmingmen Building
Nanjing Jiangsu 210007
CN

E0-1E-07 (hex) Anite Telecoms US. Inc
E01E07 (base 16) Anite Telecoms US. Inc
106 Vista Centre Dr
Forest VA 24551
US

14-7D-C5 (hex) Murata Manufacturing Co., Ltd.
147DC5 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

00-B9-F6 (hex) Shenzhen Super Rich Electronics Co.,Ltd
00B9F6 (base 16) Shenzhen Super Rich Electronics Co.,Ltd
RM.102,Shibida Building,No.55,Zhenhua Road,Shenzhen Futian District,
Shenzhen Guangdong 518031
CN

FC-C2-3D (hex) Atmel Corporation
FCC23D (base 16) Atmel Corporation
1150 E Cheyenne Mtn Blvd
Colorado Springs CO 80906
US

88-E7-A6 (hex) iKnowledge Integration Corp.
88E7A6 (base 16) iKnowledge Integration Corp.
10F No.2, Sec. 3, Xinsheng S. Rd.,
Taipei 10660
TW

04-62-D7 (hex) ALSTOM HYDRO FRANCE
0462D7 (base 16) ALSTOM HYDRO FRANCE
82
Avenue Leon Blum
GRENOBLE 38041
FR

D4-50-7A (hex) CEIVA Logic, Inc
D4507A (base 16) CEIVA Logic, Inc

214 E Magnolia Blvd
Burbank CA 91502
US

CC-E7-DF (hex) American Magnetics, Inc.
CCE7DF (base 16) American Magnetics, Inc.
PO Box 2509
Oak Ridge TN 37831-2509
US

A4-46-FA (hex) AmTRAN Video Corporation
A446FA (base 16) AmTRAN Video Corporation
9 Goddard
Irvine CA 92618
US

64-43-46 (hex) GuangDong Quick Network Computer CO.,LTD
644346 (base 16) GuangDong Quick Network Computer CO.,LTD
12F,No.80 of Middle XianLie Road,YueXiu District
GuangZhou GuangDong 510070
CN

7C-6B-33 (hex) Tenyu Tech Co. Ltd.
7C6B33 (base 16) Tenyu Tech Co. Ltd.
1F., No.10, Ln. 36, Ganzhen 2nd St.
New Taipei City 251
TW

64-D9-89 (hex) Cisco Systems, Inc
64D989 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

64-5D-D7 (hex) Shenzhen Lifesense
Medical Electronics Co., Ltd.
645DD7 (base 16) Shenzhen Lifesense Medical Electronics Co., Ltd.
China Academy of Science and Technology Development, Room 19A
Shenzhen Guangdong 518057
CN

D4-02-4A (hex) Delphian Systems LLC
D4024A (base 16) Delphian Systems LLC
720 Dartmouth Lane
Buffalo Grove IL 60089
US

00-41-B4 (hex) Wuxi Zhongxing Optoelectronics Technology Co.,Ltd.

0041B4 (base 16) Wuxi Zhongxing Optoelectronics Technology Co.,Ltd.
Block 93-C, Sci. & Tech. Industry park,
Wuxi Jiangsu 214028
CN

F4-44-50 (hex) BND Co., Ltd.
F44450 (base 16) BND Co., Ltd.
573-13 Bokhyeon-dong, Buk-gu
Daegu 702-020
KR

EC-46-70 (hex) Meinberg Funkuhren GmbH & Co. KG
EC4670 (base 16) Meinberg Funkuhren GmbH & Co. KG
Lange Wand 9
Bad Pyrmont NDS 31812
DE

28-04-E0 (hex) FERMAX ELECTRONICA S.A.U.
2804E0 (base 16) FERMAX ELECTRONICA S.A.U.
Tres Cruces 133
Valencia 46017
ES

D0-5A-0F
(hex) I-BT DIGITAL CO.,LTD
D05A0F (base 16) I-BT DIGITAL CO.,LTD
17F.-8, No.866, Zhongzheng Rd., Zhonghe Dist
New Taipei 235
TW

EC-96-81 (hex) 2276427 Ontario Inc
EC9681 (base 16) 2276427 Ontario Inc
31-1275 Morningside Ave
Toronto ON M1B3W1
CA

5C-07-6F (hex) Thought Creator
5C076F (base 16) Thought Creator
Largo da Pirâmide, Nº 3, Sala D
Oeiras Lisboa 2795-156 Linda-a-Velha
PT

3C-0F-C1 (hex) KBC Networks
3C0FC1 (base 16) KBC Networks
25691 Atlantic Ocean Dr
Lake Forest CA 92630
US

10-F9-EE (hex) Nokia Corporation
10F9EE (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

74-2B-0F (hex) Infinidat Ltd.
742B0F (base 16) Infinidat Ltd.
11 Galgalei Haplada St.
Herzliya Pituach Center 46722
IL

C8-F9-81 (hex) Seneca s.r.l.
C8F981 (base 16) Seneca s.r.l.
Via Germania, 34
PADOVA 35127
IT

58-E6-36 (hex) EVRsafe
Technologies
58E636 (base 16) EVRsafe Technologies
59 North Terrace
Adelaide South Australia 5069
AU

24-49-7B (hex) Innovative Converged Devices Inc
24497B (base 16) Innovative Converged Devices Inc
424 8th Avenue North
Seattle WA 98109
US

98-E7-9A (hex) Foxconn(NanJing) Communication Co.,Ltd.
98E79A (base 16) Foxconn(NanJing) Communication Co.,Ltd.
A-2FMinfang Building No.189 Guangzhou Rd
Nanjing Jiang su 210029
CN

14-30-7A (hex) Avermetrics
14307A (base 16) Avermetrics
2973 Glendale Blvd.
Los Angeles CA 90039
US

A0-6C-EC (hex) RIM
A06CEC (base 16) RIM
Phillip Street
Waterloo Ontario N2L 3W8
CA

A0-E9-DB (hex) Ningbo FreeWings Technologies Co.,Ltd
A0E9DB (base 16) Ningbo FreeWings Technologies Co.,Ltd
Room 1107-1108, No 298 XueShi Road Yinzhou District Ningbo,
Ningbo Zhejiang 315000
CN

78-89-73 (hex) CMC
788973 (base 16) CMC
Industriepark
De Bruwaan 37B
Oudenaarde Oost-Vlaanderen 9700
BE

20-37-06 (hex) Cisco Systems, Inc
203706 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

90-B9-7D (hex) Johnson Outdoors Marine Electronics d/b/a Minnkota
90B97D (base 16) Johnson Outdoors Marine Electronics d/b/a Minnkota
1531 E Madison Ave
Mankato MN 56001
US

F4-B1-64 (hex) Lightning Telecommunications Technology Co. Ltd
F4B164 (base 16) Lightning Telecommunications Technology Co. Ltd
Room 1302, TianÂ¡Â¯an Hi-Tech Plaza Tower A, Futian District,
ShenZhen GuangDong 518040
CN

70-B0-35 (hex) Shenzhen Zowee Technology Co., Ltd
70B035 (base 16) Shenzhen Zowee Technology Co., Ltd
Block 5, Science and Technology Industrial
Shenzhen Guangdong 518055
CN

88-21-E3 (hex) Nebusens, S.L.
8821E3 (base 16) Nebusens, S.L.
C/ Adaja S/N, Edificio M2
Villamayor de la Armuña Salamanca 37185
ES

7C-F4-29
(hex) NUUO Inc.
7CF429 (base 16) NUUO Inc.
C block, 18 Sihyuan St. Jhongjheng District,

Taipei 100
TW

10-45-BE (hex) Norphonic AS
1045BE (base 16) Norphonic AS
Fabrikkgaten 10
Bergen 5059
NO

8C-82-A8 (hex) Insigma Technology Co.,Ltd
8C82A8 (base 16) Insigma Technology Co.,Ltd
No.226 Tianmushan Road,
Hangzhou Zhejiang 310000
CN

CC-B5-5A (hex) Fraunhofer ITWM
CCB55A (base 16) Fraunhofer ITWM
Fraunhoferplatz 1
Kaiserslautern Rhineland-Palatinae 67663
DE

AC-8A-CD (hex) ROGER D.Wensker, G.Wensker sp.j.
AC8ACD (base 16) ROGER D.Wensker, G.Wensker sp.j.
Gosciszewo 59
Sztum Pomorskie 82-400
PL

AC-47-23 (hex) Genelec
AC4723 (base 16) Genelec
Olvitie 5
Iisalmi 74100
FI

E8-BA-70 (hex) Cisco Systems, Inc
E8BA70 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

D4-A4-25 (hex) SMAX Technology Co., Ltd.
D4A425
(base 16) SMAX Technology Co., Ltd.
2F., No. 3, Wuquan 3rd, Wugu Dist.
New Taipei City 248
TW

8C-11-CB (hex) ABUS Security-Center GmbH & Co. KG
8C11CB (base 16) ABUS Security-Center GmbH & Co. KG

Linker Kreuthweg 5
Affing / Muehlhausen Bavaria 86444
DE

F8-03-32 (hex) Khomp
F80332 (base 16) Khomp
Rua Joe Collaço, 253
Florianópolis Santa Catarina 88037-010
BR

98-42-46 (hex) SOL INDUSTRY PTE., LTD
984246 (base 16) SOL INDUSTRY PTE., LTD
1 NORTH BRIDGE RD.,
179094
SG

34-29-EA (hex) MCD ELECTRONICS SP. Z O.O.
3429EA (base 16) MCD ELECTRONICS SP. Z O.O.
Lelewela 26
Zywiec slaskie 34-300
PL

28-A5-74 (hex) Miller Electric Mfg. Co.
28A574 (base 16) Miller Electric Mfg. Co.
N676 Communication Drive
Appleton WI 54914
US

60-19-0C (hex) RRAMAC
60190C (base 16) RRAMAC
15400 Medina Rd
Plymouth MN 55447
US

D0-5F-CE (hex) Hitachi Data
Systems
D05FCE (base 16) Hitachi Data Systems
750 Central Expressway
Santa Clara CA 95050
US

D0-9B-05 (hex) Emtronix
D09B05 (base 16) Emtronix
5# Gaopeng Dadao
Chengdu 610041
CN

FC-83-29 (hex) Trei technics

FC8329 (base 16) Trei technics
801 Northpoint Pkwy
West Palm Beach Florida 33407
US

90-B8-D0 (hex) Joyent, Inc.
90B8D0 (base 16) Joyent, Inc.
345 California Street,
San Francisco CA 94104
US

28-14-71 (hex) Lantis co., LTD.
281471 (base 16) Lantis co., LTD.
busan innobiz center 401
busan 616-829
KR

88-B1-68 (hex) Delta Control GmbH
88B168 (base 16) Delta Control GmbH
Rondorfer Hauptstraße 33
Cologne NRW 50997
DE

AC-86-74 (hex) Open Mesh, Inc.
AC8674 (base 16) Open Mesh, Inc.
111 SW 5th Ave Ste1150
Portland OR 97204
US

64-D2-41 (hex) Keith & Koep GmbH
64D241 (base 16) Keith & Koep GmbH
Uellendahler Str. 199
Wuppertal
NRW 42109
DE

18-B7-9E (hex) Invoxia
18B79E (base 16) Invoxia
87 rue du Gouverneur Général Eboué
Issy-Les-Moulineaux 92130
FR

CC-F8-41 (hex) Lumewave
CCF841 (base 16) Lumewave
4803 B Street
Sacramento CA 95819
US

14-EB-33 (hex) BSMediasoft Co., Ltd.
14EB33 (base 16) BSMediasoft Co., Ltd.
#603, Garden Bldg., 14-13, Yoido-Dong, Youngdeungpo-Gu
Seoul 150-871
KR

F4-B5-49 (hex) Xiamen Yeastar Information Technology Co., Ltd.
F4B549 (base 16) Xiamen Yeastar Information Technology Co., Ltd.
3/F, No. 46 Guanri Road, 2nd Software Park
Xiamen Fujian 361006
CN

68-5B-36 (hex) POWERTECH INDUSTRIAL CO., LTD.
685B36 (base 16) POWERTECH INDUSTRIAL CO., LTD.
10F, No. 407, Chung Shan Rd., Sec 2,
Chung Ho Taipei County 23558
TW

8C-44-35 (hex) Shanghai BroadMobi Communication Technology Co., Ltd.
8C4435 (base 16) Shanghai BroadMobi Communication Technology Co., Ltd.
Rm.
901, Bld. 9, No.1515 Gumei Rd, Xuhui District
Shanghai 200233
CN

F8-1D-93 (hex) Longdhua(Beijing) Controls Technology Co.,Ltd
F81D93 (base 16) Longdhua(Beijing) Controls Technology Co.,Ltd
Room 1203,Lixiang Building, No.111 Zhichun Road,Haidian District,
Beijing 10086
CN

7C-F0-BA (hex) Linkwell Telesystems Pvt Ltd
7CF0BA (base 16) Linkwell Telesystems Pvt Ltd
1-11-252/1/A, Gowra Klassic
Hyderabad Andhra Pradesh 500016
IN

D8-DF-0D (hex) beroNet GmbH
D8DF0D (base 16) beroNet GmbH
Friedrichstraße 231
Berlin 10969
DE

AC-F9-7E (hex) ELESYS INC.
ACF97E (base 16) ELESYS INC.
Suit 623, 812-1, Hyomun-dong
Ulsan Buk-gu 683-360
KR

38-D1-35 (hex) EasyIO Corporation Sdn. Bhd.
38D135 (base 16) EasyIO Corporation Sdn. Bhd.
No. 32-2 & 32-3, Jalan Puteri 2/4
Puchong Selangor 47100
MY

94-D9-3C (hex) ENELPS
94D93C (base 16) ENELPS
Bul Arsenija Carnojevica 117
Belgrade
11070
RS

B8-BE-BF (hex) Cisco Systems, Inc
B8BEBF (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

68-87-6B (hex) INQ Mobile Limited
68876B (base 16) INQ Mobile Limited
6 Hester Road
Battersea London SW11 4AN
GB

1C-AA-07 (hex) Cisco Systems, Inc
1CAA07 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

28-EE-2C (hex) Frontline Test Equipment
28EE2C (base 16) Frontline Test Equipment
PO Box 7507
Charlottesville Virginia 22906-7507
US

78-2E-EF (hex) Nokia Corporation
782EEF (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

64-B6-4A (hex) ViVOtech, Inc.
64B64A (base 16) ViVOtech, Inc.
451 El Camino Real
Santa Clara CA 95050

US

30-EB-25 (hex) INTEK DIGITAL
30EB25 (base 16) INTEK DIGITAL
801, 8th Fl., Anyang K-center building, 1591-9
Anyang 431-060
KR

44-E4-D9
(hex) Cisco Systems, Inc
44E4D9 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

AC-CA-54 (hex) Telldus Technologies AB
ACCA54 (base 16) Telldus Technologies AB
Skiffervägen 102
Lund 224 78
SE

90-19-00 (hex) SCS SA
901900 (base 16) SCS SA
Via Pini, 32
Biasca 6710
CH

D4-5D-42 (hex) Nokia Corporation
D45D42 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

B0-38-29 (hex) Siliconware Precision Industries Co., Ltd.
B03829 (base 16) Siliconware Precision Industries Co., Ltd.
No. 123, Sec.3, Da Fong Rd, Tantzu,
Taichung 427
TW

7C-6C-39 (hex) PIXSYS SRL
7C6C39 (base 16) PIXSYS SRL
VIA DELLA CROCE ROSSA 42
PADOVA PD 35129
IT

BC-28-46 (hex) NextBIT Computing Pvt. Ltd.
BC2846 (base 16) NextBIT Computing Pvt. Ltd.
30/2, 2nd Floor, R.K. Plaza,

Bangalore Karnataka 560038
IN

BC-0F-2B (hex) FORTUNE
TECHGROUP CO.,LTD
BC0F2B (base 16) FORTUNE TECHGROUP CO.,LTD
7-8F,No.1198 North Qinzhou Road,
Shanghai 200233
CN

64-81-25 (hex) Alphatron Marine BV
648125 (base 16) Alphatron Marine BV
Schaardijk 23
Rotterdam Zuid-Holland 3063NH
NL

8C-F9-C9 (hex) MESADA Technology Co.,Ltd.
8CF9C9 (base 16) MESADA Technology Co.,Ltd.
TongFng Information Harbor,No.11 LangShan Road,HI-tech Park,Nanshan District,
Shenzhen GuangDong 518057
CN

04-26-05 (hex) Bosch Building Automation GmbH
042605 (base 16) Bosch Building Automation GmbH
Kapellenweg 42
Verl 33415
DE

C0-62-6B (hex) Cisco Systems, Inc
C0626B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

94-E2-26 (hex) D. ORtiz Consulting, LLC
94E226 (base 16) D. ORtiz Consulting, LLC
22601 N. 17th Avenue Suite 270
Phoenix AZ 85027
US

CC-F6-7A (hex) Ayecka Communication Systems LTD
CCF67A (base
16) Ayecka Communication Systems LTD
POB 3059
Hod Hasharon 45130
IL

D8-C9-9D (hex) EA DISPLAY LIMITED

D8C99D (base 16) EA DISPLAY LIMITED
22/F DELTA HOUSE 3 ON YIU ST
SHATIN NT
HK

10-83-D2 (hex) Microseven Systems, LLC
1083D2 (base 16) Microseven Systems, LLC
404 South Lemon Ave., #9
Walnut California 91789
US

20-40-05 (hex) feno GmbH
204005 (base 16) feno GmbH
Kolpingring 22
Oberhaching Bavaria 82041
DE

30-0B-9C (hex) Delta Mobile Systems, Inc.
300B9C (base 16) Delta Mobile Systems, Inc.
700 Remington Road
Schaumburg Illinois 60173
US

D4-6F-42 (hex) WAXESS USA Inc
D46F42 (base 16) WAXESS USA Inc
1401 Dove Street
Newport Beach CA 92660
US

04-C5-A4 (hex) Cisco Systems, Inc
04C5A4 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

18-B3-BA (hex) Netlogic AB
18B3BA (base 16) Netlogic AB
Datavägen 14A
ASKIM
Västra Götaland 43632
SE

D4-7B-75 (hex) HARTING Electronics GmbH
D47B75 (base 16) HARTING Electronics GmbH
Marienwerderstraße. 3
Espelkamp North Rhine Westphalia 32339
DE

8C-5F-DF (hex) Beijing Railway Signal Factory
8C5FDF (base 16) Beijing Railway Signal Factory
No.2 Sicun Xilu Langfa,Huangcun,
Beiijng 102613
CN

24-F0-FF (hex) GHT Co., Ltd.
24F0FF (base 16) GHT Co., Ltd.
#16 Nanyunyi Lu, Guangzhou Science City
Guangzhou Guangdong 510663
CN

9C-C0-D2 (hex) Conductix-Wampfler GmbH
9CC0D2 (base 16) Conductix-Wampfler GmbH
Rheinstrasse 27+33
Baden-Württemberg
DE

6C-AD-3F (hex) Hubbell Building Automation, Inc.
6CAD3F (base 16) Hubbell Building Automation, Inc.
9601 Dessau Rd
Austin Texas 78754
US

DC-D8-7F (hex) Shenzhen JoinCyber Telecom Equipment Ltd
DCD87F (base 16) Shenzhen JoinCyber Telecom Equipment Ltd
19CDE, Block A,JinFengBuilding,shangbu
South Road,Futian District,
Shenzhen Guangdong 518031
CN

B4-E0-CD (hex) Fusion-io, Inc
B4E0CD (base 16) Fusion-io, Inc
2880 Junction Avenue
San Jose CA 95134-1922
US

28-60-46 (hex) Lantech Communications Global, Inc.
286046 (base 16) Lantech Communications Global, Inc.
7F, No. 45, Lane 188, Ruiguang Rd., Neihu District
Taipei City 11491
TW

10-E2-D5 (hex) Qi Hardware Inc.
10E2D5 (base 16) Qi Hardware Inc.
555 4TH STREET #403
San Francisco CA 94107
US

EC-98-6C (hex) Lufft Mess- und Regeltechnik GmbH
EC986C (base 16) Lufft Mess- und Regeltechnik GmbH
Gutenbergstraße 20
Fellbach Baden-Württemberg 70736
DE

D0-93-F8 (hex) Stonestreet One LLC
D093F8 (base 16) Stonestreet One LLC
9960 Corporate Campus Drive
Louisville KY 40223
US

9C-64-5E (hex) Harman Consumer Group
9C645E (base 16) Harman Consumer Group
8500 Balboa Blvd
Northridge CA 91329
US

1C-33-4D
(hex) ITS Telecom
1C334D (base 16) ITS Telecom
29 Hametzuda st.
Azur Israel 580001
IL

34-68-4A (hex) Teraworks Co., Ltd.
34684A (base 16) Teraworks Co., Ltd.
Room No. 201 , 515-30 , Mok-Dong
Seoul 158-808
KR

CC-FC-6D (hex) RIZ TRANSMITTERS
CCFC6D (base 16) RIZ TRANSMITTERS
BOZIDAREVICEVA 13
ZAGREB 10000
HR

E0-3E-7D (hex) data-complex GmbH
E03E7D (base 16) data-complex GmbH
Düsterngraben 7
Halberstadt Sachsen-Anhalt 38820
DE

0C-C6-AC (hex) DAGS
0CC6AC (base 16) DAGS
Ace High end Tower 7th 1802
Seoul Geumcheon-gu 153-802

KR

4C-B9-C8 (hex) CONET CO., LTD.
4CB9C8 (base 16) CONET CO., LTD.
2-8,HIGASHIJIMA-CHO
ICHINOMIYA AICHI 491-0074
JP

78-59-3E (hex) RAFI GmbH & Co.KG
78593E (base 16) RAFI GmbH & Co.KG
Ravensburger Str. 128-134
Berg Baden Wurttemberg 88276
DE

50-97-72 (hex) Westinghouse Digital
509772 (base 16) Westinghouse
Digital
500 N. State College Blvd.
Orange CA 92868
US

30-39-55 (hex) Shenzhen Jinhengjia Electronic Co., Ltd.
303955 (base 16) Shenzhen Jinhengjia Electronic Co., Ltd.
4-6 Floors, Factory Building, Jijia Industrial Park,
Shenzhen Guangdong 518112
CN

FC-5B-24 (hex) Weibel Scientific A/S
FC5B24 (base 16) Weibel Scientific A/S
Solvang 30
Alleroed 3450
DK

50-3D-E5 (hex) Cisco Systems, Inc
503DE5 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

8C-B6-4F (hex) Cisco Systems, Inc
8CB64F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

EC-46-44 (hex) TTK SAS
EC4644 (base 16) TTK SAS
4, Rue du Chemin Vert

Clichy 92110
FR

54-04-96 (hex) Gigawave LTD
540496 (base 16) Gigawave LTD
GIGAWAVE TECHNICAL CENTRE
Colchester ESSEX CO62NS
GB

80-65-E9 (hex) BenQ Corporation
8065E9 (base 16) BenQ
Corporation
16 Jihu Road, Neihu
Taipei 114
TW

04-74-A1 (hex) Aligera Equipamentos Digitais Ltda
0474A1 (base 16) Aligera Equipamentos Digitais Ltda
Av. Para 330 / 302
Porto Alegre RS 90240-590
BR

5C-69-84 (hex) NUVICO
5C6984 (base 16) NUVICO
1 Enterprise Place Unit G
Hicksville NY 11801
US

B8-41-5F (hex) ASP AG
B8415F (base 16) ASP AG
Max- Planck-Str. 15 a-c
Erkrath NRW 40699
DE

2C-B6-9D (hex) RED Digital Cinema
2CB69D (base 16) RED Digital Cinema
20291 Valencia Circle
Lake Forest California 92630
US

20-FE-CD (hex) System In Frontier Inc.
20FECD (base 16) System In Frontier Inc.
4F Shinsuzuharu Bldg. 2-8-3 Akebonocyo
Tachikawa-shi Tokyo 190-0012
JP

F0-93-3A (hex) NxtConect
F0933A (base 16) NxtConect

Schillerstrasse 4
Bad Kissingen 97688
DE

70-DD-A1 (hex) Tellabs
70DDA1 (base 16) Tellabs
One Tellabs Center
Naperville
Illinois 60563
US

94-D0-19 (hex) Cydle Corp.
94D019 (base 16) Cydle Corp.
1203, KofomoTower, 16-3 , Sunae-Dong, Bundang-Gu
Seongnam-City Gyeonggi-Do 463825
KR

8C-27-8A (hex) Vocollect Inc
8C278A (base 16) Vocollect Inc
703 Rodi Road
Pittsburgh Pa 15235
US

CC-0C-DA (hex) Miljovakt AS
CC0CDA (base 16) Miljovakt AS
Gannestadveien 2
Borre Vestfold 3184
NO

A8-6A-6F (hex) RIM
A86A6F (base 16) RIM
Phillip Street
Waterloo Ontario N2L 3W8
CA

50-0E-6D (hex) TrafficCast International
500E6D (base 16) TrafficCast International
2801 Coho Street
Madison WI 53713
US

EC-3B-F0 (hex) NovelSat
EC3BF0 (base 16) NovelSat
Hataasia 21
Raanana 2396
IL

4C-ED-DE (hex) ASKEY COMPUTER CORP

4CEDDE (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585
TW

E8-E0-8F (hex) GRAVOTECH MARKING SAS
E8E08F (base
16) GRAVOTECH MARKING SAS
56 AVENUE JEAN JAURES
LA CHAPELLE SAINT LUC AUBE 10600
FR

60-C9-80 (hex) Trymus
60C980 (base 16) Trymus
Bucheon Techno Park 303-902
Bucheon-si 421-741 Gyunggi-do
KR

A0-36-FA (hex) Ettus Research LLC
A036FA (base 16) Ettus Research LLC
1043 N Shoreline Blvd
Mountain View CA 94043
US

EC-83-6C (hex) RM Tech Co., Ltd.
EC836C (base 16) RM Tech Co., Ltd.
C-801, Bupyeong Woolim Lions Valley
Incheon City 403-911
KR

E4-1C-4B (hex) V2 TECHNOLOGY, INC.
E41C4B (base 16) V2 TECHNOLOGY, INC.
4450 Enterprise Street
Fremont California 94538
US

5C-F3-FC (hex) IBM Corp
5CF3FC (base 16) IBM Corp
3039 E Cornwallis Road
Research Triangle Park NC 27709-2195
US

58-2F-42 (hex) Universal Electric Corporation
582F42 (base 16) Universal Electric Corporation
168 Georgetown Road
Canonsburg PA 15317
US

20-4A-AA (hex) Hanscan Spain S.A.
204AAA
(base 16) Hanscan Spain S.A.
Avda. de la Vega, 1
Alcobendas Madrid 28108
ES

40-1D-59 (hex) Biometric Associates, LP
401D59 (base 16) Biometric Associates, LP
9475 Deereco Rd.
Timonium MD 21093
US

B8-FF-6F (hex) Shanghai Typrotech Technology Co.Ltd
B8FF6F (base 16) Shanghai Typrotech Technology Co.Ltd
Design Building 903, NO.63,
Shanghai 200092
CN

68-12-2D (hex) Special Instrument Development Co., Ltd.
68122D (base 16) Special Instrument Development Co., Ltd.
6F-1, No. 123, Lane 235
Hsin Tien Taipei Hsien 231
TW

94-F7-20 (hex) Tianjin Deviser Electronics Instrument Co., Ltd
94F720 (base 16) Tianjin Deviser Electronics Instrument Co., Ltd
No.40 Yibin Road,Nankai district,
Tianjin 300113
CN

DC-9C-52 (hex) Sapphire Technology Limited.
DC9C52 (base 16) Sapphire Technology Limited.
Unit 1909-1919, 19/F., Tower 2, Grand Central Plaza,

HK

48-91-F6
(hex) Shenzhen Reach software technology CO.,LTD
4891F6 (base 16) Shenzhen Reach software technology CO.,LTD
6/F,Block B, Kingdee Software park,#2,Keji 12th South Road,Hi-tech Industrial Park,Nanshan District
Shenzhen Guangdong 518057
CN

64-9B-24 (hex) V Technology Co., Ltd.
649B24 (base 16) V Technology Co., Ltd.
YBP East Tower 5F,
Yokohama city Kanagawa 240-0005

JP

84-6E-B1 (hex) Park Assist LLC
846EB1 (base 16) Park Assist LLC
111 W28th Street
New York NY 10001
US

A8-9B-10 (hex) inMotion Ltd.
A89B10 (base 16) inMotion Ltd.
Unit 2709 Exchange Tower
KLN
HK

B4-14-89 (hex) Cisco Systems, Inc
B41489 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A0-B5-DA (hex) HongKong THTF Co., Ltd
A0B5DA (base 16) HongKong THTF Co., Ltd
2F,Sector C of Tsinghua University Academy,
Shenzhen Guangdong 518057
CN

88-86-A0 (hex) Simton Technologies,
Ltd.
8886A0 (base 16) Simton Technologies, Ltd.
2 Taishan Road, Building C, 3rd Floor
Wuxi, Province of Jiangsu, 214028
CN

A4-50-55 (hex) BUSWARE.DE
A45055 (base 16) BUSWARE.DE
Lindenstrasse 18
Scharbeutz 23684
DE

AC-AB-8D (hex) Lyngso Marine A/S
ACAB8D (base 16) Lyngso Marine A/S
Lyngso Alle 2
Horsholm DK-2970
DK

60-83-B2 (hex) GkWare e.K.
6083B2 (base 16) GkWare e.K.
Hatzper Str. 172B

Essen NRW 45149
DE

80-D0-19 (hex) Embed, Inc
80D019 (base 16) Embed, Inc
410 Great Road
Littleton MA 01460
US

68-EB-C5 (hex) Angstrem Telecom
68EBC5 (base 16) Angstrem Telecom
Yuzhnaya promzona, passage 4806, 4, build 3
Zelenograd Moscow 124460
RU

E8-99-5A (hex) PiiGAB, Processinformation i Goteborg AB
E8995A (base 16) PiiGAB, Processinformation i Goteborg AB
Anders Carlssons gata 1
Gothenburg 417 55
SE

1C-BD-0E (hex) Amplified
Engineering Pty Ltd
1CBD0E (base 16) Amplified Engineering Pty Ltd
5 Turner Avenue
Bentley WA 6102
AU

A0-F2-17 (hex) GE Medical System(China) Co., Ltd.
A0F217 (base 16) GE Medical System(China) Co., Ltd.
No.19, ChangJiang Road
Wuxi Jiangsu 214028
CN

F0-A7-64 (hex) GST Co., Ltd.
F0A764 (base 16) GST Co., Ltd.
#988-6, Gosaek-Dong, Gwonseon-Gu
Suwon-Si Gyeonggi-Do 441-813
KR

1C-06-56 (hex) IDY Corporation
1C0656 (base 16) IDY Corporation
IDEMITSU Korakuen Bld 9F
Bunkyo-ku Tokyo 112-0002
JP

6C-50-4D (hex) Cisco Systems, Inc
6C504D (base 16) Cisco Systems, Inc

80 West Tasman Drive
San Jose CA 94568
US

B8-D0-6F (hex) GUANGZHOU HKUST FOK YING TUNG RESEARCH INSTITUTE
B8D06F (base 16) GUANGZHOU HKUST FOK YING TUNG RESEARCH INSTITUTE
Rm 403, North of Software Building,Nansha IT Park,
Guangzhou Guangdong Privince 511458
CN

EC-14-F6 (hex) BioControl AS
EC14F6
(base 16) BioControl AS
Grimstad Gard
Rakkestad N-1890
NO

70-76-F0 (hex) LevelOne Communications (India) Private Limited
7076F0 (base 16) LevelOne Communications (India) Private Limited
2F, Lane 1, 45 Bharat Nagar
New Delhi DELHI 110025
IN

08-8D-C8 (hex) Ryowa Electronics Co.,Ltd
088DC8 (base 16) Ryowa Electronics Co.,Ltd
1483-1 Takahara-machi
Yamagata-shi Yamagata-pref. 9900002
JP

5C-17-D3 (hex) LGE
5C17D3 (base 16) LGE
60-39 , Kasan -dong , Gumcheon-gu.
Seoul 153-801
KR

8C-E7-B3 (hex) Sonardyne International Ltd
8CE7B3 (base 16) Sonardyne International Ltd
Blackbushe Business Park
Yateley Hampshire GU46 6GD
GB

1C-DF-0F (hex) Cisco Systems, Inc
1CDF0F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

68-BD-AB (hex) Cisco Systems, Inc

68BDAB (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

9C-AD-EF
(hex) Obihai Technology, Inc.
9CADEF (base 16) Obihai Technology, Inc.
2105 S. Bascom Ave #285
Campbell CA 95008
US

D0-89-99 (hex) APCON, Inc.
D08999 (base 16) APCON, Inc.
9255 SW Pioneer Court
Wilsonville OR 97070
US

C8-84-47 (hex) Beautiful Enterprise Co., Ltd
C88447 (base 16) Beautiful Enterprise Co., Ltd
26th Floor, Beautiful Group Tower

HK

A4-A8-0F (hex) Shenzhen Coship Electronics Co., Ltd.
A4A80F (base 16) Shenzhen Coship Electronics Co., Ltd.
Rainbow Bldg., North, Hi-Tech Industrial Park, Nanshan District,
Shenzhen Guangdong 518057
CN

F8-B5-99 (hex) Guangzhou CHNAVS Digital Technology Co.,Ltd
F8B599 (base 16) Guangzhou CHNAVS Digital Technology Co.,Ltd
Buliding C, industy base of digital home application and demonstration ,zhongyi road Guangzhou higher education mega center
Guangzhou Guangdong 510006
CN

B8-92-1D (hex) BG T&A
B8921D
(base 16) BG T&A
4F, L&C Tower
Gunpo-si Gyeonggi-do 435-845
KR

C8-8B-47 (hex) Nolangroup S.P.A con Socio Unico
C88B47 (base 16) Nolangroup S.P.A con Socio Unico
via Terzi di S.Agata 2
Brembate di Sopra Bergamo 24030

IT

C4-CD-45 (hex) Beijing Boomsense Technology CO.,LTD.
C4CD45 (base 16) Beijing Boomsense Technology CO.,LTD.
803 Building 4 INTERWEST Business Center,No.9 South Shouti Road ,HaidianDistrict,
Beijing 100048
CN

54-FD-BF (hex) Scheidt & Bachmann GmbH
54FDBF (base 16) Scheidt & Bachmann GmbH
Breite Strasse 132
Moenchengladbach NRW 41238
DE

D0-BB-80 (hex) SHL Telemedicine International Ltd.
D0BB80 (base 16) SHL Telemedicine International Ltd.
90 Yigal Alon
Tel Aviv 67891
IL

E0-61-B2 (hex) HANGZHOU ZENOINTEL TECHNOLOGY CO., LTD
E061B2 (base 16) HANGZHOU ZENOINTEL TECHNOLOGY CO., LTD
Room 806, F#, Cambridge Combridge, Shenhua Road,District Xihu,
Hangzhou
Zhejiang 310030
CN

94-11-DA (hex) ITF Fröschl GmbH
9411DA (base 16) ITF Fröschl GmbH
Hauserbachstraße 9
Walderbach Bavaria 93194
DE

80-39-E5 (hex) PATLITE CORPORATION
8039E5 (base 16) PATLITE CORPORATION
19-2
SANDA HYOUGOKEN 669-1339
JP

DC-7B-94 (hex) Cisco Systems, Inc
DC7B94 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

5C-CA-32 (hex) Theben AG
5CCA32 (base 16) Theben AG
Hohenbergstraße 32

Haigerloch Baden-Württemberg 72401
DE

C0-2B-FC (hex) iNES. applied informatics GmbH
C02BFC (base 16) iNES. applied informatics GmbH
Ohmstrasse 9
Ludwigsburg 71642
DE

94-C7-AF (hex) Raylios Technology
94C7AF (base 16) Raylios Technology
12F., No.16, Jian 8th Rd
Zhonghe City Taipei County 23511
TW

D8-1C-14 (hex) Compacta International, Ltd.
D81C14 (base 16) Compacta International, Ltd.
31342 Via Las Palmas
San Juan
Capistrano CA 92675
US

00-8C-10 (hex) Black Box Corp.
008C10 (base 16) Black Box Corp.
1000 Park Drive
Lawrence PA 15055
US

B0-B8-D5 (hex) Nanjing Nengrui Auto Equipment CO.,Ltd
B0B8D5 (base 16) Nanjing Nengrui Auto Equipment CO.,Ltd
No.108 Ganjiabian East Yaohua Town
Nanjing Jiangsu 210046
CN

94-E7-11 (hex) Xirka Dama Persada PT
94E711 (base 16) Xirka Dama Persada PT
Gdg CM
Jakarta 13150
ID

90-90-3C (hex) TRISON TECHNOLOGY CORPORATION
90903C (base 16) TRISON TECHNOLOGY CORPORATION
No.3, Kung-Yeh 12th Rd., Ping-Jen Industrial Park,
Ping-Jen City, TaoYuan County 32459
TW

80-C6-CA (hex) Endian s.r.l.
80C6CA (base 16) Endian s.r.l.

Pillhof 47
Frangarto Bolzano 39010
IT

14-FE-AF (hex) SAGITTAR LIMITED
14FEAF (base 16) SAGITTAR LIMITED
2-102, BLD34, BAIWANGMOLIYUAN
BEIJING 100094
CN

B0-81-D8 (hex) I-sys Corp
B081D8 (base 16) I-sys Corp
2457
Aviation Ave
N. Charleston South Carolina 29406
US

6C-9B-02 (hex) Nokia Corporation
6C9B02 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

64-1E-81 (hex) Dowslake Microsystems
641E81 (base 16) Dowslake Microsystems
21 High Street, Suite 306
North Andover MA 01845
US

EC-54-2E (hex) Shanghai XiMei Electronic Technology Co. Ltd
EC542E (base 16) Shanghai XiMei Electronic Technology Co. Ltd
Room 503, No.2623, GongHeXin Road
Shanghai 200072
CN

F0-E5-C3 (hex) Drägerwerk AG & Co. KG aA
F0E5C3 (base 16) Drägerwerk AG & Co. KG aA
Moislinger Allee 53-55
Luebeck Germany 23452
DE

E0-5B-70 (hex) Innovid, Co., Ltd.
E05B70 (base 16) Innovid, Co., Ltd.
5th Floor, Boga Building, 821-3, Bangbaedong, Seochogu
Seoul 137-060
KR

04-36-04 (hex) Gyeyoung I&T

043604 (base 16) Gyeyoung I&T
6F, Woosung Bldg. 1000-1, Daechi-dong
Seoul 135-502
KR

A4-B2-A7
(hex) Adaxys Solutions AG
A4B2A7 (base 16) Adaxys Solutions AG
Eichtalstrasse 55
Hombrechtikon CH 8634
CH

D0-D0-FD (hex) Cisco Systems, Inc
D0D0FD (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

FC-D4-F6 (hex) Messana Air.Ray Conditioning s.r.l.
FCD4F6 (base 16) Messana Air.Ray Conditioning s.r.l.
Via Venezia 18
Oderzo TV 31046
IT

D4-66-A8 (hex) Riedo Networks Ltd
D466A8 (base 16) Riedo Networks Ltd
Route de la Fonderie 6
Fribourg 1700
CH

F4-1F-0B (hex) YAMABISHI Corporation
F41F0B (base 16) YAMABISHI Corporation
3-14-12 Kamigou
Ebina-city KANAGAWA 243-0434
JP

A0-82-C7 (hex) P.T.I Co.,LTD
A082C7 (base 16) P.T.I Co.,LTD
1-5-1,Tsurumidan
Koriyama-shi Fukushima 963-8861
JP

D8-29-86 (hex) Best Wish Technology LTD
D82986 (base 16) Best Wish Technology LTD
7E,Hai Yi Business Building,No.310,Tianshan RD.,
Shanghai
200336
CN

44-61-32 (hex) ecobee inc
446132 (base 16) ecobee inc
333 Adelaide St W 6th Floor
Toronto Ontario M5V1R5
CA

74-15-E2 (hex) Tri-Sen Systems Corporation
7415E2 (base 16) Tri-Sen Systems Corporation
17625 El Camino Real Suite 200
Houston TX 77058
US

D4-8F-AA (hex) Sogecam Industrial, S.A.
D48FAA (base 16) Sogecam Industrial, S.A.
Rosalind Franklin, 22-24
Malaga 29590
ES

78-A7-14 (hex) Amphenol
78A714 (base 16) Amphenol
20 Valley St.
Endicott New York 13760
US

F4-50-EB (hex) Telechips Inc
F450EB (base 16) Telechips Inc
KORAD Bldg,1000-12, Daechi-Dong, Gangnam-Gu,
Seoul 135-280
KR

E8-7A-F3 (hex) S5 Tech S.r.l.
E87AF3 (base 16) S5 Tech S.r.l.
Via Tortona 72
Milano 20144
IT

14-1B-BD (hex) Volex Inc.
141BBD (base 16) Volex Inc.
915 Tate Blvd. SE
Hickory NC 28602
US

F8-93-F3 (hex) VOLANS
F893F3 (base
16) VOLANS
3F IJU BD 770-13 YEOKSAM-DONG
SEOUL 135-928

KR

78-66-AE (hex) ZTEC Instruments, Inc.
7866AE (base 16) ZTEC Instruments, Inc.
7715 Tiburon St. NE
Albuquerque NM 87109
US

4C-02-2E (hex) CMR KOREA CO., LTD
4C022E (base 16) CMR KOREA CO., LTD
6F, J-Tower, 24-5 Bangi-dong, Songpa-Gu
Seoul 138-050
KR

34-AA-EE (hex) Mikrovisatos Servisas UAB
34AAEE (base 16) Mikrovisatos Servisas UAB
Savanoriu pr. 125
Kaunas LT44146
LT

90-E0-F0 (hex) IEEE 1722a Working Group
90E0F0 (base 16) IEEE 1722a Working Group
8760 Sandy Parkway
Sandy Utah 84070
US

F8-AC-6D (hex) Deltenna Ltd
F8AC6D (base 16) Deltenna Ltd
First Floor Unit 2
Chippenham Wiltshire SN15 1BN
GB

18-B2-09 (hex) Torrey Pines Logic, Inc
18B209 (base 16) Torrey Pines Logic, Inc
12651 High Bluff Drive, #100
San Diego CA 92130
US

98-8E-DD (hex) TE Connectivity Limerick
988EDD
(base 16) TE Connectivity Limerick
International Science Centre, Block 1
Castletroy Co. Limerick
IE

98-FC-11 (hex) Cisco-Linksys, LLC
98FC11 (base 16) Cisco-Linksys, LLC
121 Theory Drive

Irvine California 92612
US

34-E0-D7 (hex) DONGGUAN QISHENG ELECTRONICS INDUSTRIAL CO., LTD
34E0D7 (base 16) DONGGUAN QISHENG ELECTRONICS INDUSTRIAL CO., LTD
XINJI INDUSTRIAL ZONE, MACHONG TOWN
DONGGUAN GUANGDONG 523123
CN

D8-46-06 (hex) Silicon Valley Global Marketing
D84606 (base 16) Silicon Valley Global Marketing
830 Stewart Dr. #201
Sunnyvale Ca 94085
US

40-52-0D (hex) Pico Technology
40520D (base 16) Pico Technology
James House, Marlborough Road
St Neots Cambridgeshire PE19 8YP
GB

80-7D-1B (hex) Neosystem Co. Ltd.
807D1B (base 16) Neosystem Co. Ltd.
4-19-12 Takao
Dazaifu-shi Fukuoka 818-0122
JP

48-FC-B8 (hex) Woodstream Corporation
48FCB8 (base 16) Woodstream
Corporation
69 N. Locust Street
Lititz PA 17543
US

C8-48-F5 (hex) MEDISON Xray Co., Ltd
C848F5 (base 16) MEDISON Xray Co., Ltd
3F Burim B/D 999 Daechi-dong
Seoul 135-280
KR

18-80-CE (hex) Barberry Solutions Ltd
1880CE (base 16) Barberry Solutions Ltd
2/13 Naviti Place
Auckland 0630
NZ

D8-4B-2A (hex) Cognitas Technologies, Inc.
D84B2A (base 16) Cognitas Technologies, Inc.

6406 Laurel Bush Ln.
Sugar Land Texas 77479
US

68-4B-88 (hex) Galtronics Telemetry Inc.
684B88 (base 16) Galtronics Telemetry Inc.
31 Lupi Ct
Palm Coast Florida 32137
US

A4-AE-9A (hex) Maestro Wireless Solutions ltd.
A4AE9A (base 16) Maestro Wireless Solutions ltd.
3603-9, 36/F
Sai Ying Pun
HK

CC-5C-75 (hex) Weightech Com. Imp. Exp. Equip. Pesagem Ltda
CC5C75 (base 16) Weightech Com. Imp. Exp. Equip. Pesagem Ltda
Rodovia Virgílio Várzea, 3110 - Sala 01
Florianópolis
SC 88032-001
BR

74-B9-EB (hex) JinQianMao Technology Co.,Ltd.
74B9EB (base 16) JinQianMao Technology Co.,Ltd.
Room 506 YongHeng Building NO.58 JiangBing Raod
FuZhou FuJian 350005
CN

D4-52-97 (hex) nSTREAMS Technologies, Inc.
D45297 (base 16) nSTREAMS Technologies, Inc.
10F-2, No. 302, Ruiguang Rd., Neihu District,
Taipei City 114
TW

A4-56-1B (hex) MCOT Corporation
A4561B (base 16) MCOT Corporation
Yogohigashi 1-5-12
Matsuyama city Ehime prefecture 790-0044
JP

80-C6-3F (hex) Remec Broadband Wireless , LLC
80C63F (base 16) Remec Broadband Wireless , LLC
17034 Camino San Bernardo
San Diego CA 92127
US

40-D4-0E (hex) Biodata Ltd

40D40E (base 16) Biodata Ltd
10 Stocks Street
Manchester M8 8QG
GB

0C-82-6A (hex) Wuhan Huagong Genuine Optics Technology Co., Ltd
0C826A (base 16) Wuhan Huagong Genuine Optics Technology Co., Ltd
Science & Technology Region of HUST,
Donghu High-Tech Zone
Wuhan Hubei 430223
CN

7C-05-1E (hex) RAFAEL LTD.
7C051E (base 16) RAFAEL LTD.
GUSH SEGEV POB 2250
HAIFA 31008
IL

E0-27-1A (hex) TTC Next-generation Home Network System WG
E0271A (base 16) TTC Next-generation Home Network System WG
1-1-12 Shiba Kouen
Minato-ku Tokyo 105-0011
JP

00-97-FF (hex) Heimann Sensor GmbH
0097FF (base 16) Heimann Sensor GmbH
Maria-Reiche-Str. 1
Dresden Sachsen 01109
DE

E4-AB-46 (hex) UAB Selteka
E4AB46 (base 16) UAB Selteka
DraugystÃ«s g. 19
Kaunas LT-51230
LT

94-5B-7E (hex) TRILOBIT LTDA.
945B7E (base 16) TRILOBIT LTDA.
R. ALVARENGA 1377
São Paulo 05509002
BR

04-E5-48 (hex) Cohda Wireless Pty Ltd
04E548 (base 16) Cohda Wireless Pty Ltd
Suite 5 / 83 Fullarton Road
Kent Town South Australia 5067
AU

28-93-FE (hex) Cisco Systems, Inc
2893FE (base 16) Cisco Systems, Inc
80 West Tasman
Drive
San Jose CA 94568
US

F4-C7-95 (hex) WEY Technology AG
F4C795 (base 16) WEY Technology AG
Dorfstrasse 57
Unterengstringen Zurich 8103
CH

78-11-85 (hex) NBS Payment Solutions Inc.
781185 (base 16) NBS Payment Solutions Inc.
703 Evans Ave
Toronto Ontario M9C 5E9
CA

78-A2-A0 (hex) Nintendo Co., Ltd.
78A2A0 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

24-B6-B8 (hex) FRIEM SPA
24B6B8 (base 16) FRIEM SPA
Via Edison 1
Segrate Milano 20090
IT

D4-00-0D (hex) Phoenix Broadband Technologies, LLC.
D4000D (base 16) Phoenix Broadband Technologies, LLC.
589 Bethlehem Pike
Montgomeryville PA 18936
US

AC-51-35 (hex) MPI TECH
AC5135 (base 16) MPI TECH
Vadstrupvej 35
Bagsværd DK-2880
DK

44-D6-3D (hex) Talari Networks
44D63D (base 16) Talari Networks
3200 Glen Royal Rd.
Raleigh NC

27617
US

08-F6-F8 (hex) GET Engineering
08F6F8 (base 16) GET Engineering
9350 Bond Ave
El Cajon CA 92021
US

70-71-BC (hex) PEGATRON CORPORATION
7071BC (base 16) PEGATRON CORPORATION
5F No. 76, Ligong St., Beitou District
Taipei City Taiwan 112
TW

78-84-EE (hex) INDRA ESPACIO S.A.
7884EE (base 16) INDRA ESPACIO S.A.
C/ ROC BORONAT, 133
BARCELONA 08018
ES

10-09-0C (hex) JANOME Corporation
10090C (base 16) JANOME Corporation
1463 Hazama-Machi
Hachioji-Shi Tokyo 193-0941
JP

E0-1C-EE (hex) Bravo Tech, Inc.
E01CEE (base 16) Bravo Tech, Inc.
6185 Phyllis Dr. Unit D.
Cypress CA 90630
US

A4-C2-AB (hex) Hangzhou LEAD-IT Information & Technology Co.,Ltd
A4C2AB (base 16) Hangzhou LEAD-IT Information & Technology Co.,Ltd
F2 Builder B,Xidomen Road NO.22
Hangzhou Zhejiang 310012
CN

48-AA-5D (hex) Store Electronic Systems
48AA5D (base 16) Store Electronic
Systems
39 rue de montigny
Argenteuil 95100
FR

0C-C9-C6 (hex) Samwin Hong Kong Limited
0CC9C6 (base 16) Samwin Hong Kong Limited

Rm 901-902, 9/F, Futura Plaza,
Hong Kong
CN

10-62-C9 (hex) Adatis GmbH & Co. KG
1062C9 (base 16) Adatis GmbH & Co. KG
Forchheimer Straße 6
Nürnberg Bavaria 90425
DE

D8-AE-90 (hex) Itibia Technologies
D8AE90 (base 16) Itibia Technologies
5 Clausen Ct
West Windsor NJ 08550
US

E8-5E-53 (hex) Infratec Datentechnik GmbH
E85E53 (base 16) Infratec Datentechnik GmbH
Gevener Weg 38
Neuenrade NRW 58579
DE

88-BA-7F (hex) Qfiednet Co., Ltd.
88BA7F (base 16) Qfiednet Co., Ltd.
#204 KJ Bldg. DaeChi-Dong
Seoul 135-847
KR

64-DB-18 (hex) OpenPattern
64DB18 (base 16) OpenPattern
109/111 rue des Côtes
Maisons Laffitte Yvelines 78600
FR

5C-35-DA (hex) There Corporation Oy
5C35DA (base 16) There Corporation Oy
Elimäenkatu
5
Helsinki 00510
FI

3C-4C-69 (hex) Infinity System S.L.
3C4C69 (base 16) Infinity System S.L.
Crtra. N-II, Km 48,5 Pol. Ind. Cabanillas del Campo, Parc. 12B
Guadalajara 19171
US

78-30-E1 (hex) UltraClenz, LLC

7830E1 (base 16) UltraClenz, LLC
1440 W Indiantown Road
Jupiter FL 33458
US

B0-91-34 (hex) Taleo
B09134 (base 16) Taleo
4140 Dublin Blvd
Dublin California 94568
US

D0-58-75 (hex) Active Control Technology Inc.
D05875 (base 16) Active Control Technology Inc.
1800 Appleby Line
Burlington Ontario L7L 6A1
CA

D8-1B-FE (hex) TWINLINX CORPORATION
D81BFE (base 16) TWINLINX CORPORATION
ESPACE DESCARTES BAT B
AIX EN PROVENCE PROVENCE 13857
FR

04-2F-56 (hex) ATOCS (Shenzhen) LTD
042F56 (base 16) ATOCS (Shenzhen) LTD
4/F., Building 10, Tongfuyu Industry Zone, Xili Town,
Shenzhen
CN

90-A2-DA (hex) GHEO SA
90A2DA (base 16) GHEO
SA
Via Soldini, 22
Chiasso CH-6830
CH

98-89-ED (hex) Anadem Information Inc.
9889ED (base 16) Anadem Information Inc.
2nd F, 79 Zhouzi Street, Neihu District,
Taipei 114
TW

FC-44-63 (hex) Universal Audio, Inc
FC4463 (base 16) Universal Audio, Inc
4585 Scotts Valley Dr.
Scotts Valley CA 95066
US

C8-EF-2E (hex) Beijing Gefei Tech. Co., Ltd
C8EF2E (base 16) Beijing Gefei Tech. Co., Ltd
A-603 Power Creative Plaza, NO.1 Shangdi E. Rd.,Haidian District,
Beijing 100085
CN

10-2D-96 (hex) Looxcie Inc.
102D96 (base 16) Looxcie Inc.
1196 Borregas Ave.
Sunnyvale CA 94089
US

B8-65-3B (hex) Bolymin, Inc.
B8653B (base 16) Bolymin, Inc.
13F-1, No.20, Ta-Long Rd.,
Taichung 40310
TW

38-E8-DF (hex) b gmbh medien + datenbanken
38E8DF (base 16) b gmbh medien + datenbanken
Kurfuerstenstrasse 22
Ludwigsburg BW 71636
DE

1C-12-9D (hex) IEEE PES
PSRC/SUB
1C129D (base 16) IEEE PES PSRC/SUB
Working Group H7/Sub C7 (IEEE PC37.238)
Piscataway NJ 08854
US

E0-CA-4D (hex) Shenzhen Unistar Communication Co.,LTD
E0CA4D (base 16) Shenzhen Unistar Communication Co.,LTD
9/F,Qinghai Building,7043, Berhuan Road, Futian District,
Shenzhen Guangdong 518034
CN

A0-69-86 (hex) Wellav Technologies Ltd
A06986 (base 16) Wellav Technologies Ltd
15F Desay Building
Huizhou Guangdong 516003
CN

EC-8E-AD (hex) DLX
EC8EAD (base 16) DLX
#401, Seoil B/D,1359-45 Seocho2-dong
Seoul 137-863
KR

F0-B6-EB (hex) Poslab Technology Co., Ltd.
F0B6EB (base 16) Poslab Technology Co., Ltd.
5F-1, No.490 Bannan Rd.
Jhonghe City 235
TW

1C-8F-8A (hex) Phase Motion Control SpA
1C8F8A (base 16) Phase Motion Control SpA
via Adamoli, 461
Genova IT16141
IT

FC-CC-E4 (hex) Ascon Ltd.
FCCCE4 (base 16) Ascon Ltd.
1-15-27
Minato-machi
Fukuyama –shi Hiroshima-ken 721-0964
JP

60-B3-C4 (hex) Elber Srl
60B3C4 (base 16) Elber Srl
via Pontevecchio 42 W
Carasco Ge 16042
IT

04-C8-80 (hex) Samtec Inc
04C880 (base 16) Samtec Inc
520 Park East Blvd
New Albany IN 47150
US

BC-D5-B6 (hex) d2d technologies
BCD5B6 (base 16) d2d technologies
10611 roundwood glen ct
Jacksonville Fl 32256
US

FC-68-3E (hex) Directed Perception, Inc
FC683E (base 16) Directed Perception, Inc
890C Cowan Road
Burlingame California 94010
US

28-E7-94 (hex) Microtime Computer Inc.
28E794 (base 16) Microtime Computer Inc.
4F, No. 222, Sec. 4, Cheng-Teh Rd.,
Taipei 11167

TW

34-C6-9A (hex) Enecsys Ltd
34C69A (base 16) Enecsys Ltd
Harston Mill
Cambridge Cambridgeshire CB22 7GG
GB

F8-8D-EF (hex) Tenebraex
F88DEF (base 16) Tenebraex
27 Drydock Avenue
Boston MA 02210
US

04-22-34 (hex) Wireless
Standard Extensions
042234 (base 16) Wireless Standard Extensions
1322 Crossman avenue
Sunnyvale California 94089
US

94-59-2D (hex) EKE Building Technology Systems Ltd
94592D (base 16) EKE Building Technology Systems Ltd
Piispanportti 7
Espoo - 02240
US

CC-69-B0 (hex) Global Traffic Technologies, LLC
CC69B0 (base 16) Global Traffic Technologies, LLC
7800 Third Street North
St. Paul Minnesota 55128
US

80-C8-62 (hex) Openpeak, Inc
80C862 (base 16) Openpeak, Inc
1750 Clint Moore Rd
Boca Raton Florida 33487
US

0C-D5-02 (hex) Westell Technologies Inc.
0CD502 (base 16) Westell Technologies Inc.
750 N Commons Dr
Aurora IL 60504
US

58-50-E6 (hex) Best Buy Corporation
5850E6 (base 16) Best Buy Corporation
7601 Penn Ave South

Richfield MN 55423
US

3C-1C-BE (hex) JADAK LLC
3C1CBE (base 16) JADAK LLC
7279 William Barry Blvd
North Syracuse
NY 13212
US

7C-08-D9 (hex) Shanghai B-Star Technology Co
7C08D9 (base 16) Shanghai B-Star Technology Co
1158 Xiehe Road
Shanghai 200335
CN

A0-BF-A5 (hex) CORESYS
A0BFA5 (base 16) CORESYS
267-1 Nonhyundong Gangnamgu
Seoul 135-833
KR

B0-5B-1F (hex) THERMO FISHER SCIENTIFIC S.P.A.
B05B1F (base 16) THERMO FISHER SCIENTIFIC S.P.A.
STRADA RIVOLTANA KM 6/7
RODANO MILAN 20090
IT

EC-E9-F8 (hex) Guang Zhou TRI-SUN Electronics Technology Co., Ltd
ECE9F8 (base 16) Guang Zhou TRI-SUN Electronics Technology Co., Ltd
9th floor Guangzhou info port building B, Keyun Road, Tianhe District, Guangzhou ,PRC
Guangzhou Guangdong 510665
CN

34-CE-94 (hex) Parsec (Pty) Ltd
34CE94 (base 16) Parsec (Pty) Ltd
Building 8-10 Manhattan Office Park
Centurion Gauteng 0157
ZA

A4-38-FC (hex) Plastic Logic
A438FC (base 16) Plastic Logic
650 Castro St., Suite 500
Mountain View
CA 94041
US

18-FC-9F (hex) Changhe Electronics Co., Ltd.

18FC9F (base 16) Changhe Electronics Co., Ltd.
6th Floor, Building B, Dajiahao Square, YuÂ¡Â¯an 1st Road, BaoÂ¡Â¯an,
Shenzhen Guangdong 518101
CN

A0-59-3A (hex) V.D.S. Video Display Systems srl
A0593A (base 16) V.D.S. Video Display Systems srl
Via Del Pantano 71
SCANDICCI FI 50018
IT

CC-EA-1C (hex) DCONWORKS Co., Ltd
CCEA1C (base 16) DCONWORKS Co., Ltd
182-13 Daerung Post Tower 2nd 5F
Seoul 152-847
KR

68-7F-74 (hex) Cisco-Linksys, LLC
687F74 (base 16) Cisco-Linksys, LLC
121 Theory Drive
Irvine California 92612
US

38-E9-8C (hex) Reco S.p.A.
38E98C (base 16) Reco S.p.A.
via dell'Industria, 8
Montano Lucino CO 22070
IT

34-EF-8B (hex) NTT Communications Corporation
34EF8B (base 16) NTT Communications Corporation
NTT Hibiya Bldg. 7F
Chiyoda-ku Tokyo 100-8019
JP

20-59-A0 (hex) Paragon Technologies
Inc.
2059A0 (base 16) Paragon Technologies Inc.
68 North 4th Ring Rd West,
Beijing 100080
CN

E4-FF-DD (hex) ELECTRON INDIA
E4FFDD (base 16) ELECTRON INDIA
TYPE II, NO.9, DR. V.S.I. ESTATE
CHENNAI TAMIL NADU 600 041
IN

68-A1-B7 (hex) Honghao Mingchuan Technology (Beijing) CO.,Ltd.
68A1B7 (base 16) Honghao Mingchuan Technology (Beijing) CO.,Ltd.
Floor 8,Tower A, Wanliu Yicheng Building
Beijing 100089
CN

0C-D7-C2 (hex) Axium Technologies, Inc.
0CD7C2 (base 16) Axium Technologies, Inc.
6625 N. Calle Eva Miranda
Irwindale CA 91702
US

C4-19-8B (hex) Dominion Voting Systems Corporation
C4198B (base 16) Dominion Voting Systems Corporation
215 Spadina Avenue
Toronto Ontario M5T 2C7
CA

10-88-0F (hex) Daruma Telecomunicações e Informática S.A.
10880F (base 16) Daruma Telecomunicações e Informática S.A.
AVENIDA INDEPENDENCIA, 3500, LOTEAMENTO INDUSTRIAL
Taubaté
São Paulo 12032-000
BR

FC-61-98 (hex) NEC Personal Products, Ltd
FC6198 (base 16) NEC Personal Products, Ltd
6-80, Shimohanazawa 2-chome,
Yonezawa-shi Yamagata 992-8520
JP

74-D8-50 (hex) Evrisko Systems
74D850 (base 16) Evrisko Systems
2322 Alpine Rd, Ste 10
Eau Claire WI 54703
US

78-99-8F (hex) MEDILINE ITALIA SRL
78998F (base 16) MEDILINE ITALIA SRL
VIA 8 MARZO, 4
CORTE TEGGE REGGIO NELL'EMILIA 42025
IT

F8-47-2D (hex) X2gen Digital Corp. Ltd
F8472D (base 16) X2gen Digital Corp. Ltd
89, Singlong Rd
Pin-Jhen City, 324
TW

84-90-00 (hex) Arnold&Richter Cine Technik GmbH & Co. Betriebs KG
849000 (base 16) Arnold&Richter Cine Technik GmbH & Co. Betriebs KG
Herbert-Bayer-Str. 10
Munchen Bavaria 80807
DE

08-18-4C (hex) A. S. Thomas, Inc.
08184C (base 16) A. S. Thomas, Inc.
355 Providence Hwy
Westwood MA 02090
US

E8-4E-CE (hex) Nintendo Co.,
Ltd.
E84ECE (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

10-45-F8 (hex) LNT-Automation GmbH
1045F8 (base 16) LNT-Automation GmbH
Hans-Paul-Kaysser-Straße 1
Leutenbach-Nellmersbach BW D-71397
DE

DC-E7-1C (hex) AUG Elektronik GmbH
DCE71C (base 16) AUG Elektronik GmbH
Kleinwoellmiss 53
St. Martin a. W. Styria A-8580
AT

A8-70-A5 (hex) UniComm Inc.
A870A5 (base 16) UniComm Inc.
7F-7, No. 716, Chung-Cheng Road,
Chung-Ho City Taipei Hsien 23500
TW

D0-D2-86 (hex) Beckman Coulter K.K.
D0D286 (base 16) Beckman Coulter K.K.
454-32 Higashino,
Nagaizumi-cho, Sunto-gun, Shizuoka-ken 411-0943
JP

24-D2-CC (hex) SmartDrive Systems Inc.
24D2CC (base 16) SmartDrive Systems Inc.
9276 Scranton Road
San Diego CA 92121

US

0C-EF-7C (hex) AnaCom Inc
0CEF7C (base 16) AnaCom Inc
1996 Lundy Ave
San Jose CA 95131
US

40-EC-F8
(hex) Siemens AG
40ECF8 (base 16) Siemens AG
I IS MS EDM
Munich Germany 85630
DE

54-B6-20 (hex) SUHDOL E&C Co.Ltd.
54B620 (base 16) SUHDOL E&C Co.Ltd.
920, Ilsan TechnoTown 1141-1, Baekseok-dong, Ilsandong-gu
Goyang-si Gyunggi-do 410-722
KR

78-C4-0E (hex) H&D Wireless
78C40E (base 16) H&D Wireless
Sjövägen 17
Solna 169 55
SE

C8-87-3B (hex) Net Optics
C8873B (base 16) Net Optics
5303 Betsy Ross Drive
Santa Clara CA 95054
US

2C-06-23 (hex) Win Leader Inc.
2C0623 (base 16) Win Leader Inc.
Level 3 ,Alexander House,
Ebene
MU

0C-27-55 (hex) Valuable Techologies Limited
0C2755 (base 16) Valuable Techologies Limited
602, Centre Point, J.B.Nagar,
Mumbai Maharashtra 400059
IN

BC-B1-81 (hex) SHARP CORPORATION
BCB181 (base 16) SHARP CORPORATION
22-22,Nagaike-cho,

Osaka, 545-8522,
JP

E4-1F-13 (hex) IBM Corp
E41F13
(base 16) IBM Corp
3039 E Cornwallis Road
Research Triangle Park NC 27709-2195
US

C8-3A-35 (hex) Tenda Technology Co., Ltd.
C83A35 (base 16) Tenda Technology Co., Ltd.
Room 601-602,R/D Building Complex,Tsinghua High-Tech Park,nanshan district
Shenzhen Guandong 518057
CN

6C-8C-DB (hex) Otus Technologies Ltd
6C8CDB (base 16) Otus Technologies Ltd
26 Braid Road
Edinburgh Morningside EH10 6AD
GB

40-F5-2E (hex) Leica Microsystems (Schweiz) AG
40F52E (base 16) Leica Microsystems (Schweiz) AG
Max Schmidheiny-Strasse 201
Heerbrugg SG 9435
CH

90-6D-C8 (hex) DLG Automação Industrial Ltda
906DC8 (base 16) DLG Automação Industrial Ltda
Rua José Batista Soares, 53
Sertãozinho São Paulo 14176-119
BR

44-56-B7 (hex) Spawn Labs, Inc
4456B7 (base 16) Spawn Labs, Inc
2209 Granger Lane
Austin TX 78613
US

44-C9-A2 (hex) Greenwald Industries
44C9A2 (base 16) Greenwald
Industries
212 Middlesex Avenue
Chester CT 06412
US

40-61-86 (hex) MICRO-STAR INT'L CO.,LTD

406186 (base 16) MICRO-STAR INT'L CO.,LTD
No.69,Li-De St
Jung-Ho City Taipei Hsien 235
TW

A8-CE-90 (hex) CVC
A8CE90 (base 16) CVC
No.361,Renhua Rd.,
Dali City Taichung 412
TW

00-27-21 (hex) Shenzhen Baoan Fenda Industrial Co., Ltd
002721 (base 16) Shenzhen Baoan Fenda Industrial Co., Ltd
Fenda Hi-Tech Park
Baoan Shenzhen 518108
CN

58-4C-EE (hex) Digital One Technologies, Limited
584CEE (base 16) Digital One Technologies, Limited
Room 2203, No.1 Shangdi Xinxi Road
Beijing 100085
CN

A0-73-32 (hex) Cashmaster International Limited
A07332 (base 16) Cashmaster International Limited
Fairykirk Road
Rosyth Fife KY11 2QQ
GB

64-C6-AF (hex) AXERRA Networks Ltd
64C6AF (base 16) AXERRA Networks Ltd
24 Raoul Wallenberg St. ,
Tel-Aviv ISRAEL 69719
IL

70-1A-ED
(hex) ADVAS CO., LTD.
701AED (base 16) ADVAS CO., LTD.
3-8-8 Shin-yokohama, Kohoku-ku
Yokohama-shi Kanagawa-ken 222-0033
JP

64-65-C0 (hex) Nuvon, Inc
6465C0 (base 16) Nuvon, Inc
3130 Alpine Road
Portola Valley California 94028
US

00-27-1A (hex) Geenovo Technology Ltd.
00271A (base 16) Geenovo Technology Ltd.
Unit 402, 4/F., Tower I,SHUI QING MU HUA YUAN,
Beijing 100080
CN

00-27-14 (hex) Grainmustards, Co,ltd.
002714 (base 16) Grainmustards, Co,ltd.
HEIWA MK Bldg,2-48-4,Nihonbashi-Hama-cho
Tokyo 103-0007
JP

00-27-15 (hex) Rebound Telecom. Co., Ltd
002715 (base 16) Rebound Telecom. Co., Ltd
12F,Building No.82,No.1198,North Qinzhou Rd,
Shanghai 200233
CN

00-27-0F (hex) Envisionnovation Inc
00270F (base 16) Envisionnovation Inc
4 Wareham Drive
Mississauga Ontario L5M 1B6
CA

00-27-0A (hex) IEE S.A.
00270A (base 16) IEE S.A.
ZAE Weiergewan
Contern
L-5326
LU

00-27-09 (hex) Nintendo Co., Ltd.
002709 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

44-56-8D (hex) PNC Technologies Co., Ltd.
44568D (base 16) PNC Technologies Co., Ltd.
Development Center
Anyang Gyeonggi-Do 431-836
KR

7C-1E-B3 (hex) 2N TELEKOMUNIKACE a.s.
7C1EB3 (base 16) 2N TELEKOMUNIKACE a.s.
Modranska 621
Prague 143 01
CZ

00-27-01 (hex) INCOstartec GmbH
002701 (base 16) INCOstartec GmbH
Rheinstraße 17
Teltow Germany 14513
DE

00-26-FB (hex) AirDio Wireless, Inc.
0026FB (base 16) AirDio Wireless, Inc.
13-5, No. 79, Sec. 1, Hsin Tai Wu Road
Hsichih City, Taipei County Taiwan 22101
TW

00-26-F5 (hex) XRPLUS Inc.
0026F5 (base 16) XRPLUS Inc.
#805 Ace Techno Tower 2nd 197-17
Seoul 152-766
KR

00-26-F8 (hex) Golden Highway Industry Development Co., Ltd.
0026F8
(base 16) Golden Highway Industry Development Co., Ltd.
Floor 7, Block 8, Vision Shenzhen Business Park, No.9 Gaoxin 9th South Road
Shenzhen City Guangdong Province 518057
CN

00-26-DF (hex) TaiDoc Technology Corp.
0026DF (base 16) TaiDoc Technology Corp.
7F, No. 127, Wugong 2nd Rd., 24888 Wugu Township
Taipei County Taiwan 24888
TW

00-26-D8 (hex) Magic Point Inc.
0026D8 (base 16) Magic Point Inc.
Suite 203, Building 17, No. 295 Lin Nan Road, Pudong Software Park Sanlin World Expo Block
Shanghai 2000126
CN

00-26-D6 (hex) Ningbo Andy Optoelectronic Co., Ltd.
0026D6 (base 16) Ningbo Andy Optoelectronic Co., Ltd.
Lanjiang Street Industrial Zone
Yuyao Zhejiang 315400
CN

00-26-A2 (hex) Instrumentation Technology Systems
0026A2 (base 16) Instrumentation Technology Systems
19360 Business Center Drive
Northridge CA 91324

US

00-26-9F (hex) Private
00269F (base 16) Private

00-26-99
(hex) Cisco Systems, Inc
002699 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-26-F4 (hex) Nesslab
0026F4 (base 16) Nesslab
489-2 Maetan 3-dong, Yeong Tong-gu
Suwon-si Gyeonggi-do 443-803
KR

00-26-EE (hex) TKM GmbH
0026EE (base 16) TKM GmbH
Schlossstraße 123
Mönchengladbach NRW 41238
DE

00-26-EF (hex) Technology Advancement Group, Inc.
0026EF (base 16) Technology Advancement Group, Inc.
22355 Tag Way
Dulles VA 20166-9310
US

00-26-E6 (hex) Visionhitech Co., Ltd.
0026E6 (base 16) Visionhitech Co., Ltd.
Vision bldg. 150-3
Buchon Kyunggi-Do 420-822
KR

00-26-B2 (hex) Setrix GmbH
0026B2 (base 16) Setrix GmbH
Josephspitalstr. 15
Muenchen Bayern 80331
DE

00-26-AF (hex) Duelco A/S
0026AF (base 16) Duelco A/S
Mommarkvej 5
Soenderborg Soenderjylland DK6400
DK

00-26-B3 (hex) Thales Communications Inc
0026B3
(base 16) Thales Communications Inc
22605 Gateway Center Drive
Clarksburg MD 20871
US

00-26-D1 (hex) S Squared Innovations Inc.
0026D1 (base 16) S Squared Innovations Inc.
6807-104 Street
Edmonton AB T6H 2L5
CA

00-26-D3 (hex) Zeno Information System
0026D3 (base 16) Zeno Information System
#1404 A-Dong Digital Empire Bldg, 980-3, Youngtong-dong, Youngtong-gu
Suwon City Gyeonggi-Do 443-702
KR

00-26-CB (hex) Cisco Systems, Inc
0026CB (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-26-87 (hex) corega K.K
002687 (base 16) corega K.K
1-19-20, Shinyokohama
Yokohama-city Kanagawa-ken 222-0033
JP

00-26-8D (hex) CellTel S.p.A.
00268D (base 16) CellTel S.p.A.
Via Romano 72
Scarmagno Torino 10010
IT

00-26-28 (hex) companytec automação e controle ltda.
002628 (base 16) companytec automação e controle ltda.
Rua Marcilio Dias 3005
Pelotas
Rio Grande do Sul 96020-480
BR

00-26-1F (hex) SAE Magnetics (H.K.) Ltd.
00261F (base 16) SAE Magnetics (H.K.) Ltd.
SAE Technology Centre
Hong Kong Science Park Shatin, New Territories

HK

00-26-1E (hex) QINGBANG ELEC(SZ) CO., LTD
00261E (base 16) QINGBANG ELEC(SZ) CO., LTD
No. 2, qimin Rd. North District, High-tech Industrial Park, Nanshan,
Shenzhen Guangdong 518000
CN

00-26-19 (hex) FRC
002619 (base 16) FRC
1511 South Benjamin Avenue
Mason City IA 50401
US

00-26-40 (hex) Baustem Broadband Technologies, Ltd.
002640 (base 16) Baustem Broadband Technologies, Ltd.
910 Quantum Plaza
Beijing 100191
CN

00-26-33 (hex) MIR - Medical International Research
002633 (base 16) MIR - Medical International Research
Via del Maggiolino 125
Rome RM 00155
IT

00-26-6A (hex) ESSENSIUM NV
00266A (base 16) ESSENSIUM NV
Gaston Geenslaan 9
LEUVEN VL BRABANT
3001
BE

00-26-6B (hex) SHINE UNION ENTERPRISE LIMITED
00266B (base 16) SHINE UNION ENTERPRISE LIMITED
UNIT 1211, 12FL., CHEVALIER COMMERCIAL CENTER,
KOWLOON NIL
HK

00-26-67 (hex) CARECOM CO.,LTD.
002667 (base 16) CARECOM CO.,LTD.
3-35-4
Chofu Tokyo 182-0025
JP

00-25-FE (hex) Pilot Electronics Corporation
0025FE (base 16) Pilot Electronics Corporation
No. 2, Tzu-Chiang 3rd Road, Chung-Li Industrial Zone,

Taoyuan Hsien 32063
TW

00-25-FA (hex) J&M Analytik AG
0025FA (base 16) J&M Analytik AG
Willy-Messerschmitt-Strasse 8
Essingen BW 73457
DE

00-26-47 (hex) WFE TECHNOLOGY CORP.
002647 (base 16) WFE TECHNOLOGY CORP.
17F NO.238,Chin-Hua N Rd,
Taichung 404
TW

00-26-53 (hex) DaySequerra Corporation
002653 (base 16) DaySequerra Corporation
154 Cooper Road
West Berlin NJ 08091
US

00-26-30 (hex) ACOREL S.A.S
002630 (base 16) ACOREL S.A.S
3,
Rue Paul LANGEVIN
SAINT-PERAY F-07130
FR

00-26-2A (hex) Proxense, LLC
00262A (base 16) Proxense, LLC
689 NW Stonepine Dr
Bend Oregon 97701
US

00-26-7B (hex) GSI Helmholtzzentrum für Schwerionenforschung GmbH
00267B (base 16) GSI Helmholtzzentrum für Schwerionenforschung GmbH
Planckstraße 1
Darmstadt Hessen 64291
DE

00-25-96 (hex) GIGAVISION srl
002596 (base 16) GIGAVISION srl
Via Figini, 16
Muggiò Milano 20053
IT

00-25-95 (hex) Northwest Signal Supply, Inc
002595 (base 16) Northwest Signal Supply, Inc

12965 SW Herman Rd
Tualatin OR 97062
US

00-25-8F (hex) Trident Microsystems, Inc.
00258F (base 16) Trident Microsystems, Inc.
3408 Garrett Drive
Santa Clara CA 95054
US

00-25-89 (hex) Hills Industries Limited
002589 (base 16) Hills Industries Limited
5 Cambria Road
Melbourne VIC 3173
AU

00-25-85 (hex) KOKUYO S&T Co., Ltd.
002585 (base
16) KOKUYO S&T Co., Ltd.
1-8-35
Minato-ku Tokyo 108-8710
JP

00-25-C9 (hex) SHENZHEN HUAPU DIGITAL CO., LTD
0025C9 (base 16) SHENZHEN HUAPU DIGITAL CO., LTD
Futian District,Chegongmiao,TianAn Cyberpark
ShenZhen Guangdong Province 518040
CN

00-25-BE (hex) Tektrap Systems Inc.
0025BE (base 16) Tektrap Systems Inc.
15 Buteau St.
Gatineau Quebec J8Z 1V4
CA

00-25-EA (hex) Iphion BV
0025EA (base 16) Iphion BV
Willemstraat 106
Eindhoven 5616GE
NL

00-25-F0 (hex) Suga Electronics Limited
0025F0 (base 16) Suga Electronics Limited
Units 1904-1907, Chevalier Commercial Centre,
Kowloon Bay Hong Kong
CN

00-25-B5 (hex) Cisco Systems, Inc

0025B5 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-25-E8 (hex) Idaho Technology
0025E8 (base 16) Idaho Technology
390 Wakara way
Salt Lake city UT 84108
US

00-25-E4 (hex) OMNI-WiFi,
LLC
0025E4 (base 16) OMNI-WiFi, LLC
70 Sullivan Street
Berwick Maine 03901
US

00-25-81 (hex) x-star networks Inc.
002581 (base 16) x-star networks Inc.
1F,NO1-2,Chungching S.Rd.Sec 3
Taipei 10076
TW

00-25-A0 (hex) Nintendo Co., Ltd.
0025A0 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

00-25-9B (hex) Beijing PKUNITY Microsystems Technology Co., Ltd
00259B (base 16) Beijing PKUNITY Microsystems Technology Co., Ltd
11th Floor, Resource Plaza, No.151 North Zhongguancun Street
Beijing 100080
CN

00-25-D7 (hex) CEDO
0025D7 (base 16) CEDO
Videnska 127
BRNO 61900
CZ

00-25-D8 (hex) KOREA MAINTENANCE
0025D8 (base 16) KOREA MAINTENANCE
3F HAELIM BUIDING 103-7, GURO-5DONG
SEOUL 152-842
KR

00-25-D2 (hex) InpegVision Co., Ltd
0025D2 (base 16) InpegVision Co., Ltd
226-3, Bugok-dong, Geumjeong-gu,
Busan
609-320
KR

00-25-4D (hex) Singapore Technologies Electronics Limited
00254D (base 16) Singapore Technologies Electronics Limited
24 Ang Mo Kio
569061
SG

00-25-4C (hex) Videon Central, Inc.
00254C (base 16) Videon Central, Inc.
2171 Sandy Drive
State College PA 16803
US

00-25-43 (hex) MONEYTECH
002543 (base 16) MONEYTECH
Rua Guiratinga 931 un. 103
São Paulo SP 04141-001
BR

00-25-7B (hex) STJ ELECTRONICS PVT LTD
00257B (base 16) STJ ELECTRONICS PVT LTD
X-24 OKHLA INDUSTRIAL AREA
NEW DELHI DELHI 110 020
IN

00-25-7C (hex) Huachentel Technology Development Co., Ltd
00257C (base 16) Huachentel Technology Development Co., Ltd
747 XinYu Rd. High-Tech Zone
Jinan Shandong Province 250101
CN

00-25-75 (hex) FiberPlex Technologies, LLC
002575 (base 16) FiberPlex Technologies, LLC
10840-412 Guilford Rd
Annapolis Junction MD 20701
US

00-25-70
(hex) Eastern Communications Company Limited
002570 (base 16) Eastern Communications Company Limited
No.398 Wensan Road,
Hangzhou Zhejiang 310013

CN

00-25-6A (hex) inIT - Institut Industrial IT
00256A (base 16) inIT - Institut Industrial IT
Liebigstrasse 87
Lemgo Northrhine-Westfalia 32657
DE

00-25-62 (hex) interbro Co. Ltd.
002562 (base 16) interbro Co. Ltd.
6F Joyang B/D, 113 Samseong-Dong, Gangnam-Gu
Seoul 135-090
KR

00-25-51 (hex) SE-Elektronic GmbH
002551 (base 16) SE-Elektronic GmbH
Eythstraße 16
Göppingen 73037
DE

00-25-5B (hex) CoachComm, LLC
00255B (base 16) CoachComm, LLC
205 Technology Parkway
Auburn AL 36830
US

00-25-16 (hex) Integrated Design Tools, Inc.
002516 (base 16) Integrated Design Tools, Inc.
1202 E Park Avenue
Tallahassee FL 32301
US

00-25-10 (hex) Pico-Tesla Magnetic Therapies
002510 (base 16) Pico-Tesla Magnetic Therapies
7852
South Elati
Littleton CO 80120
US

00-25-20 (hex) SMA Railway Technology GmbH
002520 (base 16) SMA Railway Technology GmbH
Miramstraße 87
Kassel Hesse 34123
DE

00-25-27 (hex) Bitrode Corp.
002527 (base 16) Bitrode Corp.
9787 Green Park Industrial Drive

St. Louis MO 63123
US

00-25-25 (hex) CTERA Networks Ltd.
002525 (base 16) CTERA Networks Ltd.
24 Imber St.
Petach-Tikva 495111
IL

00-25-3A (hex) CEVA, Ltd.
00253A (base 16) CEVA, Ltd.
2 Maskit Street.
Herzelia 46120
IL

00-24-F7 (hex) Cisco Systems, Inc
0024F7 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-24-F3 (hex) Nintendo Co., Ltd.
0024F3 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

00-24-B9 (hex) Wuhan Higheasy Electronic Technology Development Co.Ltd
0024B9 (base 16) Wuhan Higheasy Electronic
Technology Development Co.Ltd
Bldg A2 Optics Valley Software Park,Guanshan 1st Rd,
Wuhan Hubei 430033
CN

00-24-BD (hex) Hainzl Industriesysteme GmbH
0024BD (base 16) Hainzl Industriesysteme GmbH
Industriezeile 56
Linz Upper Austria 4021
AT

00-24-E0 (hex) DS Tech, LLC
0024E0 (base 16) DS Tech, LLC
2210 Hutton Drive
Carrollton TX 75006
US

00-24-E2 (hex) HASEGAWA ELECTRIC CO.,LTD.
0024E2 (base 16) HASEGAWA ELECTRIC CO.,LTD.

5-6-20 SHIOE
AMAGASAKI HYOGO 661-0976
JP

00-24-C8 (hex) Broadband Solutions Group
0024C8 (base 16) Broadband Solutions Group
1101 Marina Village Parkway
Alameda CA 94501
US

00-24-C5 (hex) Meridian Audio Limited
0024C5 (base 16) Meridian Audio Limited
11 Latham Road
Huntingdon Cambs PE29 6YE
GB

00-24-E5 (hex) Seer Technology, Inc
0024E5 (base 16) Seer Technology, Inc
2681 Parleys Way
Salt Lake City Utah 84109
US

00-25-01
(hex) JSC Supertel
002501 (base 16) JSC Supertel
38A Petrogradskaya emb.
St.Petersburg 197101
RU

00-24-35 (hex) WIDE CORPORATION
002435 (base 16) WIDE CORPORATION
LEADERS TOWER 7TH FL., GOMAE-DONG, GIHEUNG-GU
YONGIN GYEONGGI 446-901
KR

00-24-31 (hex) Uni-v co.,ltd
002431 (base 16) Uni-v co.,ltd
5/F,COFCO Property Tower,
Shenzhen Guangdong 518126
CN

00-24-32 (hex) Neostar Technology Co.,LTD
002432 (base 16) Neostar Technology Co.,LTD
8F., No.102, Sec. 1, Sintai 5th Rd.
Sijhih City Taipei 22161
TW

00-24-30 (hex) Ruby Tech Corp.

002430 (base 16) Ruby Tech Corp.
3F, NO. 1, Lane 50, Nan Kang Road, Sec. 3,
Taipei 11510
TW

00-24-2E (hex) Datastrip Inc.
00242E (base 16) Datastrip Inc.
1 Waterview Drive
Shelton CT 06484
US

00-24-58 (hex) PA Bastion CC
002458 (base 16) PA Bastion CC
97, liter K, Buddyonnovsky ave.
Rostov-on-Don 344011
RU

00-24-5D
(hex) Terberg besturingstechniek B.V.
00245D (base 16) Terberg besturingstechniek B.V.
Lage Dijk-Noord 3
IJsselstein Utrecht 3401 VA
NL

00-24-50 (hex) Cisco Systems, Inc
002450 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-24-96 (hex) Ginzinger electronic systems
002496 (base 16) Ginzinger electronic systems
Gewerbegebiet Pirath 16
Weng Upper Austria 4952
AT

00-24-99 (hex) Aquila Technologies
002499 (base 16) Aquila Technologies
8429A Washington Place NE
Albuquerque NM 87113
US

00-24-8A (hex) Kaga Electronics Co., Ltd.
00248A (base 16) Kaga Electronics Co., Ltd.
Hongo 2-2-9
Tokyo 113-8503
JP

00-24-87 (hex) Transact Campus, Inc.
002487 (base 16) Transact Campus, Inc.
22601 North 19th Avenue
Phoenix AZ 85027
US

00-24-77 (hex) Tibbo Technology
002477 (base 16) Tibbo Technology
9F-3, No 31, Lane
169, Kang-Ning St.,
Hsi-Chih Taipei Hsien 221
TW

00-24-6E (hex) Phihong USA Corp.
00246E (base 16) Phihong USA Corp.
47800 Fremont Blvd.
Fremont CA 94538
US

00-24-73 (hex) 3COM EUROPE LTD
002473 (base 16) 3COM EUROPE LTD
Peoplebuilding 2
Hemel Hempstead HERTS. HP2 4NW
GB

00-24-43 (hex) Nortel Networks
002443 (base 16) Nortel Networks
2221 Lakeside Blvd
Richardson TX 75081
US

00-24-41 (hex) Wanzl Metallwarenfabrik GmbH
002441 (base 16) Wanzl Metallwarenfabrik GmbH
Bubesheimer Straße 4
Leipheim Bavaria 89340
DE

00-24-3B (hex) CSSI (S) Pte Ltd
00243B (base 16) CSSI (S) Pte Ltd
70 Bendemeer Road Unit 04-04
339940
SG

00-24-51 (hex) Cisco Systems, Inc
002451 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-24-4A (hex) Voyant International
00244A (base 16) Voyant International
444 Castro St
Mountain View
CA 94041
US

00-24-47 (hex) Kaztek Systems
002447 (base 16) Kaztek Systems
17 Bromfield Road
Acton MA 01720
US

00-24-6B (hex) Covia, Inc.
00246B (base 16) Covia, Inc.
Benex S-3 Bldg., 3-20-8, Shinyokohama,Kohoku-ku,
Yokohama-city Kanagawa-pref. 222-0033
JP

00-23-B8 (hex) Sichuan Jiuzhou Electronic Technology Co.,Ltd
0023B8 (base 16) Sichuan Jiuzhou Electronic Technology Co.,Ltd
No.259 Jiuzhou Road,
Mianyang Sichuan 621000
CN

00-23-BA (hex) Chroma
0023BA (base 16) Chroma
68, Hwa-Ya 1st Rd., Hwa-Ya Technical Park,
Taoyuan Hsien Taiwan 333
TW

00-23-BC (hex) EQ-SYS GmbH
0023BC (base 16) EQ-SYS GmbH
Hinter den Gärten 15b
Treuenbrietzen OT Feldheim Brandenburg 14929
DE

00-23-B1 (hex) Longcheer Technology (Singapore) Pte Ltd
0023B1 (base 16) Longcheer Technology (Singapore) Pte Ltd
43 Kaki Bukit View, #04-01 ,
415970
SG

00-23-F5 (hex) WILO SE
0023F5
(base 16) WILO SE
Nortkirchenstraße 100

D - 44263 Dortmund NRW 44263
DE

00-23-FF (hex) Beijing HTTC Technology Ltd.
0023FF (base 16) Beijing HTTC Technology Ltd.
B-13D-3 Keshi Building,Jia No.28 Xinxi Road,SHANGDI IT Industry Base
Beijing 100085
CN

00-23-F6 (hex) Softwell Technology Co., Ltd.
0023F6 (base 16) Softwell Technology Co., Ltd.
4F, No. 419, Jhonghe Rd., Yonghe City,
Taipei County 234
TW

00-23-F3 (hex) Glocom, Inc.
0023F3 (base 16) Glocom, Inc.
22 Firstfield Road
Gaithersburg Maryland 20878
US

00-23-F0 (hex) Shanghai Jinghan Weighing Apparatus Co. Ltd.
0023F0 (base 16) Shanghai Jinghan Weighing Apparatus Co. Ltd.
Building 58, No.99 Chunguang Road, Xinzhuang Industrial Zone,Minhang,
Shanghai 201108
CN

00-24-1A (hex) Red Beetle Inc.
00241A (base 16) Red Beetle Inc.
898 Silas Deane Highway
Wethersfield CT 06109
US

00-24-14 (hex) Cisco
Systems, Inc
002414 (base 16) Cisco Systems, Inc
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US

00-24-10 (hex) NUETEQ Technology,Inc.
002410 (base 16) NUETEQ Technology,Inc.
11F, No. 112, Sec. 1, Zhong-Xiao E Rd.
Taipei 100
TW

00-23-CC (hex) Nintendo Co., Ltd.
0023CC (base 16) Nintendo Co., Ltd.

11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

00-24-08 (hex) Pacific Biosciences
002408 (base 16) Pacific Biosciences
1505 Adams Drive
Menlo Park CA 94025
US

00-24-0C (hex) DELEC GmbH
00240C (base 16) DELEC GmbH
Ruheweg 17-21
Göllheim Rheinland-Pfalz 67307
DE

00-23-F9 (hex) Double-Take Software, INC.
0023F9 (base 16) Double-Take Software, INC.
8470 Allison Pointe Blvd
Indianapolis IN 46250
US

00-23-A1 (hex) Trend Electronics Ltd
0023A1 (base 16) Trend Electronics Ltd
Gut No. 350
Auranagabad Maharashtra 431210
IN

00-23-A6
(hex) E-Mon
0023A6 (base 16) E-Mon
One Oxford Valley, Suite 418
Langhorne PA 19047
US

00-23-A8 (hex) Marshall Electronics
0023A8 (base 16) Marshall Electronics
20608 Madrona Ave
Torrance CA 90503
US

00-23-C0 (hex) Broadway Networks
0023C0 (base 16) Broadway Networks
1754 Technology Drive, Suite 208
San Jose California 95110
US

00-23-B6 (hex) SECURITE COMMUNICATIONS / HONEYWELL

0023B6 (base 16) SECURITE COMMUNICATIONS / HONEYWELL
FONT DE L'ORME
MOUGINS FRANCE 06250
US

00-23-EA (hex) Cisco Systems, Inc
0023EA (base 16) Cisco Systems, Inc
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US

00-23-E5 (hex) IPaXiom Networks
0023E5 (base 16) IPaXiom Networks
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High Wycombe Buckinghamshire HP11 1LA
GB

00-23-49 (hex) Helmholtz Centre Berlin for Material and Energy
002349 (base 16) Helmholtz Centre Berlin for Material and Energy
Department FMD
Berlin
14109
DE

00-23-46 (hex) Vestac
002346 (base 16) Vestac
P.O. Box 7358
Shrewsbury NJ 07702
US

00-23-44 (hex) Objective Interface Systems, Inc.
002344 (base 16) Objective Interface Systems, Inc.
220 Spring Street, Suite 530
Herndon VA 20170-6201
US

00-23-3C (hex) Alflex
00233C (base 16) Alflex
Blauw-roodlaan 300
ZOETERMEER 2718 SK
NL

00-23-79 (hex) Union Business Machines Co. Ltd.
002379 (base 16) Union Business Machines Co. Ltd.
Unit 2, 2/F, Block A, Hong Kong Industrial Centre,
Lai Chi Kok Kowloon
HK

00-23-77 (hex) Isotek Electronics Ltd
002377 (base 16) Isotek Electronics Ltd
9 Clayton Wood Bank
Leeds LS16 6QZ
GB

00-23-71 (hex) SOAM Systel
002371 (base 16) SOAM Systel
182-13, Daerung Post Tower II, 1504
Seoul Guro-dong, Guro-gu 152-847
KR

00-23-62 (hex) Goldline Controls
002362 (base 16) Goldline Controls
61 Whitecap Dr
North
Kingstown RI 02852
US

00-23-5E (hex) Cisco Systems, Inc
00235E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-23-58 (hex) SYSTEL SA
002358 (base 16) SYSTEL SA
ZI DE BELLE AIRE
AYTRE 17440
FR

00-23-56 (hex) Packet Forensics LLC
002356 (base 16) Packet Forensics LLC
420 S Smith Rd
Tempe AZ 85281
US

00-23-50 (hex) RDC, Inc. dba LynTec
002350 (base 16) RDC, Inc. dba LynTec
8385 Melrose Drive
Lenexa KS 66214
US

00-23-4F (hex) Luminous Power Technologies Pvt. Ltd.
00234F (base 16) Luminous Power Technologies Pvt. Ltd.
C8-C9, Community Center,
New Delhi 110058
IN

00-23-9A (hex) EasyData Hardware GmbH
00239A (base 16) EasyData Hardware GmbH
Breslauer Str. 24
Wehrheim Hessen D-61273
DE

00-23-96 (hex) ANDES TECHNOLOGY CORPORATION
002396 (base 16) ANDES TECHNOLOGY CORPORATION
2F,No. 1, Li-Hsin First Road,
Hsin-Chu
Taiwan 300
TW

00-23-94 (hex) Samjeon
002394 (base 16) Samjeon
#1313-1 Joil-Ri, Samdong-Myeun,Ulju-Gun
Ulsan City South Korea 689-934
KR

00-23-8C (hex) Private
00238C (base 16) Private

00-23-17 (hex) Lasercraft Inc
002317 (base 16) Lasercraft Inc
1450 Oakbrook Drive
Norcross GA 30093
US

00-23-0E (hex) Gorba AG
00230E (base 16) Gorba AG
Sandackerstrasse
Oberbüren SG CH - 9245
CH

00-23-07 (hex) FUTURE INNOVATION TECH CO.,LTD
002307 (base 16) FUTURE INNOVATION TECH CO.,LTD
312 3-DONG, GWANGMYUNG INDUSTRIAL COMPLEX 201
GWANGMYUNG GYUNGGI 423060
KR

00-23-33 (hex) Cisco Systems, Inc
002333 (base 16) Cisco Systems, Inc
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San Jose CA 94568
US

00-23-2E (hex) Kedah Electronics Engineering, LLC

00232E (base 16) Kedah Electronics Engineering, LLC
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Moscow 124498
RU

00-23-20 (hex) Nicira Networks
002320
(base 16) Nicira Networks
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Palo Alto CA 94303
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00-23-22 (hex) KISS Teknical Solutions, Inc.
002322 (base 16) KISS Teknical Solutions, Inc.
1583 S. Navajo Way
Chandler Arizona 85286
US

00-23-64 (hex) Power Instruments Pte Ltd
002364 (base 16) Power Instruments Pte Ltd
BLK 40 TOH GUAN RD EAST, #01-62 ENTERPRISE HUB
608582
SG

00-22-C7 (hex) SEGGER Microcontroller GmbH & Co. KG
0022C7 (base 16) SEGGER Microcontroller GmbH & Co. KG
In den Weiden 11
Hilden NRW 40721
DE

00-22-C1 (hex) Active Storage Inc.
0022C1 (base 16) Active Storage Inc.
2295 Jefferson Street
Torrance CA 90501
US

00-22-C2 (hex) Proview Eletrônica do Brasil LTDA
0022C2 (base 16) Proview Eletrônica do Brasil LTDA
R. Acará 203 - Distrito Industrial
Manaus Amazonas 69075-030
BR

00-22-BD (hex) Cisco Systems, Inc
0022BD (base 16) Cisco Systems, Inc
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Tasman Drive
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US

00-22-BA (hex) HUTH Elektronik Systeme GmbH
0022BA (base 16) HUTH Elektronik Systeme GmbH
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Troisdorf-Spich NRW 53842
DE

00-22-BB (hex) beyerdynamic GmbH & Co. KG
0022BB (base 16) beyerdynamic GmbH & Co. KG
Theresienstraße 8
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00-22-B6 (hex) Superflow Technologies Group
0022B6 (base 16) Superflow Technologies Group
4060 Dixon Street
Des Moines IA 50266
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00-22-B5 (hex) NOVITA
0022B5 (base 16) NOVITA
3F301,Namsung B/D 340-30
Geumcheon-Gu Seoul 153-782
KR

00-22-B2 (hex) 4RF Communications Ltd
0022B2 (base 16) 4RF Communications Ltd
26 Glover Street
Ngauranga Wellington 6031
NZ

00-22-AC (hex) Hangzhou Siyuan Tech. Co., Ltd
0022AC (base 16) Hangzhou Siyuan Tech. Co., Ltd
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Hangzhou Zhejiang 310012
CN

00-22-AD (hex) TELESIS TECHNOLOGIES,
INC.
0022AD (base 16) TELESIS TECHNOLOGIES, INC.
28181 River Drive
Circleville Ohio 43113
US

00-22-AE (hex) Mattel Inc.
0022AE (base 16) Mattel Inc.
333 Continental Blvd.
El Segundo CA 90245

US

00-23-05 (hex) Cisco Systems, Inc
002305 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-22-FF (hex) NIVIS LLC
0022FF (base 16) NIVIS LLC
1000 CIRCLE 75
ATLANTA GA 30339
US

00-23-02 (hex) Cobalt Digital, Inc.
002302 (base 16) Cobalt Digital, Inc.
2406 East University Avenue
Urbana IL 61802
US

00-22-F5 (hex) Advanced Realtime Tracking GmbH
0022F5 (base 16) Advanced Realtime Tracking GmbH
Am Oeferl 6
Weilheim Bayern D-82362
DE

00-22-D1 (hex) Albrecht Jung GmbH & Co. KG
0022D1 (base 16) Albrecht Jung GmbH & Co. KG
Volmestraße 1
Schalksmühle NRW 58579
DE

00-22-D2 (hex) All Earth Comércio de Eletrônicos LTDA.
0022D2
(base 16) All Earth Comércio de Eletrônicos LTDA.
Rua Leonida Reimman Trotti, 343
Campinas São Paulo 13065-704
BR

00-22-CA (hex) Anviz Biometric Tech. Co., Ltd.
0022CA (base 16) Anviz Biometric Tech. Co., Ltd.
5th Floor, 4299 Jindu Road,
Shanghai 201108
CN

00-22-A3 (hex) California Eastern Laboratories
0022A3 (base 16) California Eastern Laboratories
4590 Patrick Henry Dr.

Santa Clara CA 95054
US

00-22-A0 (hex) APTIV SERVICES US, LLC
0022A0 (base 16) APTIV SERVICES US, LLC
5725 Innovation Drive
Troy MI 48098
US

00-22-97 (hex) XMOS Semiconductor
002297 (base 16) XMOS Semiconductor
Venturers House
Bristol BS1 4PB
GB

00-22-8F (hex) CNRS
00228F (base 16) CNRS
MRCT
Meudon Ile de France 92195
FR

00-22-7E (hex) Chengdu 30Kaitian Communication Industry Co.Ltd
00227E (base 16) Chengdu 30Kaitian Communication Industry Co.Ltd
No.6 Chuangye Road
Chengdu
Sichuan 610041
CN

00-22-7C (hex) Woori SMT Co.,ltd
00227C (base 16) Woori SMT Co.,ltd
649-2,Suwolam-ri,Seotan-Myun
Pyongtaek Kyonggi-Do 451-852
KR

00-22-77 (hex) NEC Australia Pty Ltd
002277 (base 16) NEC Australia Pty Ltd
649-655 Springvale Rd
Mulgrave Victoria 3170
AU

00-22-79 (hex) Nippon Conlux Co., Ltd.
002279 (base 16) Nippon Conlux Co., Ltd.
5-3-8, Chiyoda
Sakado-shi Saitama 350-0214
JP

00-22-E5 (hex) Fisher-Rosemount Systems Inc.
0022E5 (base 16) Fisher-Rosemount Systems Inc.

12301 Research Blvd
Austin Texas 78759
US

00-22-E4 (hex) APASS TECHNOLOGY CO., LTD.
0022E4 (base 16) APASS TECHNOLOGY CO., LTD.
2F, No. 267, Sec. 3, Chengde Rd.,
TEIPEI 113
TW

00-22-D5 (hex) Eaton Corp. Electrical Group Data Center Solutions - Pulizzi
0022D5 (base 16) Eaton Corp. Electrical Group Data Center Solutions - Pulizzi
3200 S. Susan St.
Santa Ana CA
92704
US

00-22-92 (hex) Cinetal
002292 (base 16) Cinetal
8651 Castle Park
Indianapolis IN 46256
US

00-22-58 (hex) Taiyo Yuden Co., Ltd.
002258 (base 16) Taiyo Yuden Co., Ltd.
8-1 Sakae-Cho

JP

00-22-5B (hex) Teradici Corporation
00225B (base 16) Teradici Corporation
101 4621 Canada Way,
Burnaby BC V6G 4X8
CA

00-22-59 (hex) Guangzhou New Postcom Equipment Co.,Ltd.
002259 (base 16) Guangzhou New Postcom Equipment Co.,Ltd.
No.3Ã,Â¡Ã,Â¡Guangpuxi Road,Guangzhou Science City,
Guangzhou Guangdong 510663
CN

00-22-53 (hex) Entorian Technologies
002253 (base 16) Entorian Technologies
8900 Shoal Creek Blvd
Austin TX 78757
US

00-22-4F (hex) Byzoro Networks Ltd.

00224F (base 16) Byzoro Networks Ltd.
Room 5A1,Block A, Keshi Plaza,No. 28A Info. Road,
Beijing 100085
CN

00-22-35 (hex) Strukton Systems bv
002235 (base 16) Strukton Systems bv
Westkanaaldijk
2
Utrecht 3542 DA
NL

00-22-2C (hex) Ceton Corp
00222C (base 16) Ceton Corp
8259 122nd Ave NE, Suite 275
Kirkland Washington 98033
US

00-22-2D (hex) SMC Networks Inc.
00222D (base 16) SMC Networks Inc.
20 Mason
Irvine CA 92618
US

00-22-2A (hex) SoundEar A/S
00222A (base 16) SoundEar A/S
Rentemestervej 80
Copenhagen NV Denmark DK-2400
DK

00-22-05 (hex) WeLink Solutions, Inc.
002205 (base 16) WeLink Solutions, Inc.
3F, No. 88, Sec. 1, Nei-Hu Rd.
Taipei 114
TW

00-22-09 (hex) Omron Healthcare Co., Ltd
002209 (base 16) Omron Healthcare Co., Ltd
24 Yamanoshita-cho Yamanouchi
Kyoto 6150084
JP

00-21-F9 (hex) WIRECOM Technologies
0021F9 (base 16) WIRECOM Technologies
135, rue Jacques Charles
OLIVET Loiret 45166
FR

00-21-FA (hex) A4SP Technologies Ltd.
0021FA (base 16) A4SP Technologies Ltd.
Keilaranta 19 D
Espoo Uusimaa
02150
FI

00-22-71 (hex) Jäger Computergesteuerte Meßtechnik GmbH.
002271 (base 16) Jäger Computergesteuerte Meßtechnik GmbH.
Rheinstraße 2-4
Lorsch Hessen 64653
DE

00-22-5E (hex) Uwin Technologies Co.,LTD
00225E (base 16) Uwin Technologies Co.,LTD
2F,No.22.R&D RD II,SBIP
Hsinchu 300
TW

00-22-11 (hex) Rohati Systems
002211 (base 16) Rohati Systems
1192 Borregas Ave
Sunnyvale CA 94089
US

00-22-12 (hex) CAI Networks, Inc.
002212 (base 16) CAI Networks, Inc.
4790 Irvine Blvd
Irvine California 92620
US

00-22-0D (hex) Cisco Systems, Inc
00220D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-22-08 (hex) Certicom Corp
002208 (base 16) Certicom Corp
5520 Explorer Drive, 4th Floor
Mississauga ON L4W 5L1
CA

00-22-3D (hex) JumpGen Systems, LLC
00223D (base 16) JumpGen Systems, LLC
2111 Palomar Airport Rd
Carlsbad

CA 92011
US

00-22-39 (hex) Indiana Life Sciences Incorporated
002239 (base 16) Indiana Life Sciences Incorporated
8875 Bash Street
Indianapolis Indiana 46256
US

00-22-1F (hex) eSang Technologies Co., Ltd.
00221F (base 16) eSang Technologies Co., Ltd.
#1-817, IT Castle 550-1, Gasan-Dong,
Seoul 153-768
KR

00-22-17 (hex) Neat Electronics
002217 (base 16) Neat Electronics
Varuvägen 2
Löddeköpinge Skåne SE-24642
SE

00-21-F0 (hex) EW3 Technologies LLC
0021F0 (base 16) EW3 Technologies LLC
114 E 11th St
Connersville IN 47331
US

00-21-EE (hex) Full Spectrum Inc.
0021EE (base 16) Full Spectrum Inc.
1149 Chestnut Street, Suite 100
Menlo Park California 94025
US

00-21-EC (hex) Solutronic GmbH
0021EC (base 16) Solutronic GmbH
Kueferstrasse 18
Koengen 73257
DE

00-22-51 (hex) Lumasense Technologies
002251 (base 16) Lumasense Technologies
3033
Scott Blvd.
Santa Clara CA 95054
US

00-22-47 (hex) DAC ENGINEERING CO., LTD.
002247 (base 16) DAC ENGINEERING CO., LTD.

1-5 Oyanagi-cho
Kyoto 601-8128
JP

00-21-A0 (hex) Cisco Systems, Inc
0021A0 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-21-98 (hex) Thai Radio Co, LTD
002198 (base 16) Thai Radio Co, LTD
Hi-Tech Industrial Estate
Ayutthaya 13160
TH

00-21-8C (hex) TopControl GMBH
00218C (base 16) TopControl GMBH
Enzenbergweg 24/A
Terlan (BZ) 39018
IT

00-21-8A (hex) Electronic Design and Manufacturing Company
00218A (base 16) Electronic Design and Manufacturing Company
31 Millrace Dr
Lynchburg VA 24502
US

00-21-8B (hex) Wescon Technology, Inc.
00218B (base 16) Wescon Technology, Inc.
4655-170 Old Ironsides Drive
Santa Clara California 95054
US

00-21-84 (hex) POWERSOFT SRL
002184 (base 16) POWERSOFT
SRL
VIA ENRICO CONTI, 5
SCANDICCI FI 50018
IT

00-21-7A (hex) Sejin Electron, Inc.
00217A (base 16) Sejin Electron, Inc.
SJ Technoville
Seoul 153-801
KR

00-21-D3 (hex) BOCOM SECURITY(ASIA PACIFIC) LIMITED

0021D3 (base 16) BOCOM SECURITY(ASIA PACIFIC) LIMITED
Flr.3,NO.29,#69 Guiqing RD
Shanghai 200233
CN

00-21-CC (hex) Flextronics International
0021CC (base 16) Flextronics International
Stretton Green Distribution Centre Langford Way
Warrington Cheshire WA4 4TQ
GB

00-21-CF (hex) The Crypto Group
0021CF (base 16) The Crypto Group
Zugerstrasse 42
Steinhausen Zug 6312
CH

00-21-B9 (hex) Universal Devices Inc.
0021B9 (base 16) Universal Devices Inc.
5353 Yarmouth Ave. #209
Encino CA 91316
US

00-21-B3 (hex) Ross Controls
0021B3 (base 16) Ross Controls
One Ross Way
Lavonia GA 30553
US

00-21-B6 (hex) Triacta Power Technologies Inc.
0021B6
(base 16) Triacta Power Technologies Inc.
Box 582, 7 Mill Street
Almonte Ontario K0A 1A0
CA

00-21-AE (hex) ALCATEL-LUCENT FRANCE - WTD
0021AE (base 16) ALCATEL-LUCENT FRANCE - WTD
7-9, Avenue Morane Saulnier
VELIZY 78141
FR

00-21-AF (hex) Radio Frequency Systems
0021AF (base 16) Radio Frequency Systems
Kabelkamp 20
Hannover 30179
DE

00-21-E6 (hex) Starlight Video Limited
0021E6 (base 16) Starlight Video Limited
5/F., Shing Dao Industrial Building,

HK

00-21-E0 (hex) CommAgility Ltd
0021E0 (base 16) CommAgility Ltd
Holywell Park
Loughborough Leics LE11 3AQ
GB

00-21-DE (hex) Firepro Wireless
0021DE (base 16) Firepro Wireless
27, Zamrudpur Community Center,
New Delhi Haryana 110020
IN

00-21-78 (hex) Matuschek Messtechnik GmbH
002178 (base 16) Matuschek Messtechnik GmbH
Werner Heisenberg Straße 14
Alsdorf NRW 52477
DE

00-21-73 (hex) Ion
Torrent Systems, Inc.
002173 (base 16) Ion Torrent Systems, Inc.
37 Soundview Rd
Guilford CT 06437
US

00-21-77 (hex) W. L. Gore & Associates
002177 (base 16) W. L. Gore & Associates
402 Vieves Way
Elkton MD 21921
US

00-21-72 (hex) Seoultek Valley
002172 (base 16) Seoultek Valley
Bang-i Dong 51-5, Songpa
Seoul 138-050
KR

00-21-69 (hex) Prologix, LLC.
002169 (base 16) Prologix, LLC.
17217 NE 133rd Place
Redmond Washington 98052-2153
US

00-21-C5 (hex) 3DSP Corp
0021C5 (base 16) 3DSP Corp
16271 Laguna Canyon Road
Irvine, CA 92618
US

00-21-A4 (hex) Dbii Networks
0021A4 (base 16) Dbii Networks
2217 Via Blanca
Oceanside CA 92054
US

00-21-99 (hex) Vacon Plc
002199 (base 16) Vacon Plc
P.O.Box 25
Vaasa 65380
FI

00-21-4B (hex) Shenzhen HAMP Science & Technology Co.,Ltd
00214B (base 16) Shenzhen HAMP Science & Technology Co.,Ltd
No.302-303,3
Floor,District A,TCL Tower,Gaoxin Nan Yi Road,NanShan District
Shenzhen Guangdong 518057
CN

00-21-45 (hex) Semptian Technologies Ltd.
002145 (base 16) Semptian Technologies Ltd.
No. 809, Tower B, Shi Ji Ke Mao
Beijing 100190
CN

00-21-3E (hex) TomTom International BV
00213E (base 16) TomTom International BV
Oosterdoksstraat 114
Amsterdam North Holland 1011 DK
NL

00-1F-FC (hex) Riccius+Sohn GmbH
001FFC (base 16) Riccius+Sohn GmbH
Haynauer Str. 49
Berlin 12249
DE

00-1F-FD (hex) Indigo Mobile Technologies Corp.
001FFD (base 16) Indigo Mobile Technologies Corp.
11F, No22, Lan407,TiDing Blvd Section2, Neihu Technology Park
Taipei City 114

TW

00-1F-EE (hex) ubisys technologies GmbH
001FEE (base 16) ubisys technologies GmbH
Am Wehrhahn 45
Düsseldorf NRW 40211
DE

00-1F-EF (hex) SHINSEI INDUSTRIES CO.,LTD
001FEF (base 16) SHINSEI INDUSTRIES
CO.,LTD
4-12-15,HORIFUNE, KITA-KU,
TOKOYO 114-0004
JP

00-1F-EC (hex) Synapse Électronique
001FEC (base 16) Synapse Électronique
1010, 7e Avenue
Grand-Mère Québec G9T 2B8
CA

00-1F-E8 (hex) KURUSUGAWA Electronics Industry Inc,.
001FE8 (base 16) KURUSUGAWA Electronics Industry Inc,.
2F, 52-5, Nogata 6chome
Nakano-Ku TOKYO 165-0027
JP

00-21-21 (hex) VRmagic GmbH
002121 (base 16) VRmagic GmbH
Augustaanlage 32
Mannheim BW 68165
DE

00-21-23 (hex) Aerosat Avionics
002123 (base 16) Aerosat Avionics
62 State Rd.
Amherst NH 03031
US

00-21-1B (hex) Cisco Systems, Inc
00211B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-21-07 (hex) Seowonintech Co Ltd.
002107 (base 16) Seowonintech Co Ltd.
689-47 Geumjeongdong

Gunposi Kyoungkido 436-862
KR

00-1F-FE (hex) HPN Supply Chain
001FFE (base 16) HPN Supply Chain
8000
Foothills Blvd
Roseville CA 95747
US

00-1F-FF (hex) Respironics, Inc.
001FFF (base 16) Respironics, Inc.
1740 Golden Mile Highway
Monroeville PA 15146
US

00-21-53 (hex) SeaMicro Inc.
002153 (base 16) SeaMicro Inc.
3250 Jay Street
Santa Clara CA 95054
US

00-21-54 (hex) D-TACQ Solutions Ltd
002154 (base 16) D-TACQ Solutions Ltd
James Watt Building
East Kilbride Lanarkshire G75 0QD
GB

00-21-3F (hex) A-Team Technology Ltd.
00213F (base 16) A-Team Technology Ltd.
Rm. 1608, 16/F., Metropole Square,
New Territories,
HK

00-21-2D (hex) SCIMOLEX CORPORATION
00212D (base 16) SCIMOLEX CORPORATION
2430, Saijou, Showa-cho
Nakakoma-gun, Yamanashi 409-3866
JP

00-21-0A (hex) byd:sign Corporation
00210A (base 16) byd:sign Corporation
2-10-6 Tsukiji
Chuo-ku Tokyo 104-0045
JP

00-1F-D7 (hex) TELERAD SA
001FD7 (base 16) TELERAD SA

2, avenue
de la butte aux cailles
ANGLET 64600
FR

00-1F-D3 (hex) RIVA Networks Inc.
001FD3 (base 16) RIVA Networks Inc.
555 Riva Ave
East Brunswick NJ 08816
US

00-1F-D5 (hex) MICRORISC s.r.o.
001FD5 (base 16) MICRORISC s.r.o.
Delnicka 222
Jicin kralovehradecky kraj 50601
CZ

00-1F-BB (hex) Xenatech Co.,LTD
001FBB (base 16) Xenatech Co.,LTD
514-2 Ya Tab-Dong Bun Dang Gu
Seong namsi Gyong gi-do 463-839
KR

00-1F-B1 (hex) Cybertech Inc.
001FB1 (base 16) Cybertech Inc.
935 Horsham Rd
Horsham PA 19044
US

00-1F-B2 (hex) Sontheim Industrie Elektronik GmbH
001FB2 (base 16) Sontheim Industrie Elektronik GmbH
Dieselstrasse 7
Kempten Allgaeu Bavaria D-87437
DE

00-1F-CA (hex) Cisco Systems, Inc
001FCA (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1F-C3 (hex) SmartSynch, Inc
001FC3 (base 16) SmartSynch, Inc
4400 Old Canton
Rd
Jackson MS 39211
US

00-1F-C1 (hex) Hanlong Technology Co.,LTD
001FC1 (base 16) Hanlong Technology Co.,LTD
2402 West Tower Building, Fuxin International Building,
Nanjing Jiangsu 210002
CN

00-1F-89 (hex) Signalion GmbH
001F89 (base 16) Signalion GmbH
Sudhausweg 5
Dresden Saxony 01099
DE

00-1F-8A (hex) Ellion Digital Inc.
001F8A (base 16) Ellion Digital Inc.
Suite 809, Sicox Tower, 513-14, Sangdaewon-dong, Jungwon-gu
Sungnam-city Kyonggi-do 426-726
KR

00-1F-7F (hex) Phabrix Limited
001F7F (base 16) Phabrix Limited
Blindmans Gate Cottage
Newbury Hampshire RG20 9XB
GB

00-1F-7C (hex) Witelcom AS
001F7C (base 16) Witelcom AS
Verftsgt 10
Moss Ostfold 1511
NO

00-1F-7A (hex) WiWide Inc.
001F7A (base 16) WiWide Inc.
10B10, Hua Jie Plaza
Beijing 100089
CN

00-1F-77 (hex) HEOL DESIGN
001F77 (base 16) HEOL DESIGN
1 bd d'armor
LANNION
BRETAGNE 22300
FR

00-1F-76 (hex) AirLogic Systems Inc.
001F76 (base 16) AirLogic Systems Inc.
3022 Peleke St.Suite 1
Lihu'e HI 96766
US

00-1F-73 (hex) Teraview Technology Co., Ltd.
001F73 (base 16) Teraview Technology Co., Ltd.
23F, No. 29-5, Sec. 2, Jhongjheng E. Road,
Taipei County 251
TW

00-1F-62 (hex) JSC Stilsoft
001F62 (base 16) JSC Stilsoft
Mayakovskogo 15
Stavropol 355000
RU

00-1F-67 (hex) Hitachi,Ltd.
001F67 (base 16) Hitachi,Ltd.
Minamioi 6-27-18, Shinagawa-ku
Tokyo Tokyo 140-8572
JP

00-1F-61 (hex) Talent Communication Networks Inc.
001F61 (base 16) Talent Communication Networks Inc.
Rm. 910 R&F Plaza, #76, Huangpu Ave. West,
Guangzhou (Canton) Guangdong Province 510360
CN

00-1F-56 (hex) DIGITAL FORECAST
001F56 (base 16) DIGITAL FORECAST
5th Fl., 507, E&C Venture Dream Tower III, 197-33
Seoul Gyunggi-do 152-719
KR

00-1F-E0 (hex) EdgeVelocity
Corp
001FE0 (base 16) EdgeVelocity Corp
68 Stiles Road
Hudson NH 03079
US

00-1F-D8 (hex) A-TRUST COMPUTER CORPORATION
001FD8 (base 16) A-TRUST COMPUTER CORPORATION
3F., NO.361, FUSING 1ST RD., GUEISHAN TOWNSHIP,
TAOYUAN 33375
TW

00-1F-AB (hex) I.S HIGH TECH.INC
001FAB (base 16) I.S HIGH TECH.INC
603-1,Sungbon-ri,Daeso-myun
Eumsung-gun Chungcheongbuk-do 369-823

KR

00-1F-AC (hex) Goodmill Systems Ltd
001FAC (base 16) Goodmill Systems Ltd
Sinikalliontie 10
Espoo Uusimaa 02630
FI

00-1F-8E (hex) Metris USA Inc.
001F8E (base 16) Metris USA Inc.
44880 Falcon Place ste 100
Sterling VA 20166
US

00-1F-44 (hex) GE Transportation Systems
001F44 (base 16) GE Transportation Systems
2901 East Lake Road
Erie PA 16501
US

00-1F-39 (hex) Construcciones y Auxiliar de Ferrocarriles, S.A.
001F39 (base 16) Construcciones y Auxiliar de Ferrocarriles,
S.A.
C/ J.M. Iturrioz, 26
Beasain Guipúzcoa E-20200
ES

00-1F-3D (hex) Qbit GmbH
001F3D (base 16) Qbit GmbH
Stegwiesenstrasse 32
Bruchsal Germany 76646
DE

00-1F-36 (hex) Bellwin Information Co. Ltd.,
001F36 (base 16) Bellwin Information Co. Ltd.,
No.336, Beitun Rd., Beitun Dist.,
Taichung 406
TW

00-1F-38 (hex) POSITRON
001F38 (base 16) POSITRON
ESTRADA TELEBRAS-UNICAMP, KM0,97 - CJ.01
CAMPINAS São Paulo 13084-971
BR

00-1F-2D (hex) Electro-Optical Imaging, Inc.
001F2D (base 16) Electro-Optical Imaging, Inc.
4300 Fortune Place, Suite C

West Melbourne FL 32904
US

00-1F-11 (hex) OPENMOKO, INC.
001F11 (base 16) OPENMOKO, INC.
7F, No 300, Yang Guang Street
Taipei 11491
TW

00-1F-03 (hex) NUM AG
001F03 (base 16) NUM AG
Battenhusstrasse 16
Teufen AR 9053
CH

00-1E-FD (hex) Microbit 2.0 AB
001EFD (base 16) Microbit 2.0 AB
Nystaden 1
KALIX
95261
SE

00-1E-D4 (hex) Doble Engineering
001ED4 (base 16) Doble Engineering
85 Walnut St
Watertown MA 02472
US

00-1E-D2 (hex) Ray Shine Video Technology Inc
001ED2 (base 16) Ray Shine Video Technology Inc
6F,No.98,Sec.1,Xintai 5th Rd.
Xizhi City Taipei County 221
TW

00-1E-CE (hex) BISA Technologies (Hong Kong) Limited
001ECE (base 16) BISA Technologies (Hong Kong) Limited
1102, Trans Asia Centre,
Kwai Chung,
HK

00-1E-C8 (hex) Rapid Mobile (Pty) Ltd
001EC8 (base 16) Rapid Mobile (Pty) Ltd
Building C,D,E Apex Corporate Park
Pretoria Gauteng 0020
ZA

00-1E-CC (hex) CDVI
001ECC (base 16) CDVI

31 Avenue du Général Leclerc
PANTIN Ile de France 93500
FR

00-1E-FF (hex) Mueller-Elektronik GmbH & Co. KG
001EFF (base 16) Mueller-Elektronik GmbH & Co. KG
Franz-Kleine-Str. 18
Salzkotten NRW 33154
DE

00-1F-05 (hex) iTAS Technology Corp.
001F05
(base 16) iTAS Technology Corp.
No. 75, Shuiyuan St.
Hsinchu City 30069
TW

00-1F-07 (hex) AZTEQ Mobile
001F07 (base 16) AZTEQ Mobile
Suite 210, 525 University Ave
Palo Alto CA 94301
US

00-1E-F6 (hex) Cisco Systems, Inc
001EF6 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1E-F9 (hex) Pascom Kommunikations systeme GmbH.
001EF9 (base 16) Pascom Kommunikations systeme GmbH.
Technologiestr. 4
Arbing Upper Austria 4332
AT

00-1E-F3 (hex) From2
001EF3 (base 16) From2
2F, Mester inc
Daejeon 306-230
KR

00-1E-E7 (hex) Epic Systems Inc
001EE7 (base 16) Epic Systems Inc
390 S. Abbott Ave
Milpitas CA 95035
US

00-1E-E9 (hex) Stoneridge Electronics AB

001EE9 (base 16) Stoneridge Electronics AB
Gårdsfogdevägen 18A
Bromma Stockholm 168 66
SE

00-1E-E4 (hex) ACS Solutions France
001EE4 (base 16) ACS Solutions
France
Rue Claude Chappe
Guilherand Granges Ardeche 07503
FR

00-1F-2F (hex) Berker GmbH & Co. KG
001F2F (base 16) Berker GmbH & Co. KG
Klagebach 38
Schalksmuehle NRW 58579
DE

00-1F-32 (hex) Nintendo Co., Ltd.
001F32 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

00-1E-ED (hex) Adventiq Ltd.
001EED (base 16) Adventiq Ltd.
Technology House
Bar Hill Cambs. CB3 8SQ
GB

00-1F-52 (hex) UVT Unternehmensberatung fur Verkehr und Technik GmbH
001F52 (base 16) UVT Unternehmensberatung fur Verkehr und Technik GmbH
Josefsstraße 54-56
Mainz RLP 55118
DE

00-1F-4F (hex) Thinkware Co. Ltd.
001F4F (base 16) Thinkware Co. Ltd.
15FL, Hanmi Tower, 45,
Seoul 138-724
KR

00-1F-1C (hex) KOBISHI ELECTRIC Co.,Ltd.
001F1C (base 16) KOBISHI ELECTRIC Co.,Ltd.
1805-1
Kounosu-shi Saitama-ken 365-0027
JP

00-1F-19 (hex) BEN-RI
ELECTRONICA S.A.
001F19 (base 16) BEN-RI ELECTRONICA S.A.
POL. IND. VENTORRO DEL CANO
ALCORCON MADRID 28925
ES

00-1E-5F (hex) KwikByte, LLC
001E5F (base 16) KwikByte, LLC
2430 W. 12th Street
Tempe AZ 85281
US

00-1E-5B (hex) Unitron Company, Inc.
001E5B (base 16) Unitron Company, Inc.
10925 Miller Road
Dallas TX 75238
US

00-1E-5E (hex) COmputime Ltd.
001E5E (base 16) COmputime Ltd.
17/F Great Eagle Centre
Wanchai
HK

00-1E-54 (hex) TOYO ELECTRIC Corporation
001E54 (base 16) TOYO ELECTRIC Corporation
1-39 HIKISAWA
KASUGAI AICHI 480-0393
JP

00-1E-3C (hex) Lyngbox Media AB
001E3C (base 16) Lyngbox Media AB
Diskettgatan 11B
Linkoping SE-58335
SE

00-1E-C5 (hex) Middle Atlantic Products Inc
001EC5 (base 16) Middle Atlantic Products Inc
300 Fairfield Road
Fairfield NJ 07004
US

00-1E-BE (hex) Cisco Systems, Inc
001EBE (base
16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568

US

00-1E-C3 (hex) Kozio, Inc.
001EC3 (base 16) Kozio, Inc.
2015 Ionosphere Street
Longmont CO 80504
US

00-1E-BD (hex) Cisco Systems, Inc
001EBD (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1E-B9 (hex) Sing Fai Technology Limited
001EB9 (base 16) Sing Fai Technology Limited
No.700, Kaohsiung University Rd., Nan-Tzu Dist.
Kaohsiung 811
TW

00-1E-B7 (hex) TBTech, Co., Ltd.
001EB7 (base 16) TBTech, Co., Ltd.
1109, Hyundai Krim, 1330-18, Seocho-dong,
Seoul 137-070
KR

00-1E-4D (hex) Welkin Sciences, LLC
001E4D (base 16) Welkin Sciences, LLC
102 S. Tejon St, Suite 200
Colorado Springs CO 80903
US

00-1E-4B (hex) City Theatrical
001E4B (base 16) City Theatrical
475 Barell Ave
Carlstadt New Jersey 07072
US

00-1E-4A (hex) Cisco Systems, Inc
001E4A
(base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1E-92 (hex) JEULIN S.A.
001E92 (base 16) JEULIN S.A.
ZI N°1

Evreux F27019
FR

00-1E-91 (hex) KIMIN Electronic Co., Ltd.
001E91 (base 16) KIMIN Electronic Co., Ltd.
293-4, Dongdan-Dong
Gumi-city GyeongBuk 730-906
KR

00-1E-89 (hex) CRFS Limited
001E89 (base 16) CRFS Limited
Building 7200
Waterbeach Cambridgeshire CB25 9TL
GB

00-1E-86 (hex) MEL Co.,Ltd.
001E86 (base 16) MEL Co.,Ltd.
Tsukagoshi 5-5-1,Warabi-shi,Saitama,Japna
Warabi Saitama 335-0002
JP

00-1E-88 (hex) ANDOR SYSTEM SUPPORT CO., LTD.
001E88 (base 16) ANDOR SYSTEM SUPPORT CO., LTD.
Minami-Shinagawa 2-15-8
Sinagawa Tokyo 140-0004
JP

00-1E-9D (hex) Recall Technologies, Inc.
001E9D (base 16) Recall Technologies, Inc.
130 Enterprise Ave.
Palm Bay FL 32909
US

00-1E-95 (hex) SIGMALINK
001E95 (base 16) SIGMALINK
DooSan
VentureDigm 1028,
Anyang-City Kyunggi-do 431-070
KR

00-1E-93 (hex) CiriTech Systems Inc
001E93 (base 16) CiriTech Systems Inc
920 Hillview Ct
Milpitas CA 95035
US

00-1E-79 (hex) Cisco Systems, Inc
001E79 (base 16) Cisco Systems, Inc

80 West Tasman Drive
San Jose CA 94568
US

00-1E-76 (hex) Thermo Fisher Scientific
001E76 (base 16) Thermo Fisher Scientific
2215 Grand Avenue Parkway
Austin Texas 78728
US

00-1E-72 (hex) PCS
001E72 (base 16) PCS
2 HENRI FARMAN
LESCAR PYRENEES ATLANTIQUES 64230
FR

00-1E-69 (hex) Thomson Inc.
001E69 (base 16) Thomson Inc.
101 West 103rd Street
Indianapolis IN 46290-1102
US

00-1E-A2 (hex) Symx Systems, Inc.
001EA2 (base 16) Symx Systems, Inc.
6320 NW 84th Avenue
Miami Florida 33166
US

00-1E-A9 (hex) Nintendo Co., Ltd.
001EA9 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA,
MINAMI-KU
KYOTO KYOTO 601-8501
JP

00-1E-9E (hex) ddm hopt + schuler Gmbh + Co. KG
001E9E (base 16) ddm hopt + schuler Gmbh + Co. KG
Koenigsberger Strasse 12
Rottweil Baden-Württemberg 78626
DE

00-1E-09 (hex) ZEFATEK Co.,LTD
001E09 (base 16) ZEFATEK Co.,LTD
326-4 Gasandong, Geumcheongu
Seoul 153-802
KR

00-1E-06 (hex) WIBRAIN

001E06 (base 16) WIBRAIN
306 JEI Plats B/D 459-11 Gasan-dong, Geumcheon-gu
SEOUL 153-803
KR

00-1E-0C (hex) Sherwood Information Partners, Inc.
001E0C (base 16) Sherwood Information Partners, Inc.
1120 W, 122nd Ave, Ste 300
Westminster CO 80234
US

00-1E-02 (hex) Sougou Keikaku Kougyou Co.,Ltd.
001E02 (base 16) Sougou Keikaku Kougyou Co.,Ltd.
HK2 bld. 2-21-10
Suginamiku Tokyo 167-0053
JP

00-1E-01 (hex) Renesas Technology Sales Co., Ltd.
001E01 (base 16) Renesas Technology Sales Co., Ltd.
2-6-2
Chiyoda-ku Tokyo 100-0004
JP

00-1D-FF
(hex) Network Critical Solutions Ltd
001DFF (base 16) Network Critical Solutions Ltd
12B Southview Park
Reading Berkshire RG45AF
GB

00-1E-00 (hex) Shantou Institute of Ultrasonic Instruments
001E00 (base 16) Shantou Institute of Ultrasonic Instruments
No.77, Jinsha Road,
Shantou Guangdong 515041
CN

00-1D-F3 (hex) SBS Science & Technology Co., Ltd
001DF3 (base 16) SBS Science & Technology Co., Ltd
W2-B5/6 High-tech industrial park
ShenZhen GuangDong 518057
CN

00-1D-DD (hex) DAT H.K. LIMITED
001DDD (base 16) DAT H.K. LIMITED
Suite 1405 14/F., City Plaza 4, Tai Koo Wan Rd,
Tai Koo Shing Hong Kong Island 064828
HK

00-1D-E4 (hex) Visioneered Image Systems
001DE4 (base 16) Visioneered Image Systems
10561 Garden Grove Blvd
Garden Grove California 92843
US

00-1D-E2 (hex) Radionor Communications
001DE2 (base 16) Radionor Communications
Ingvald Ystgaards
veg 23
Trondheim TRD 7046
NO

00-1D-D7 (hex) Algolith
001DD7 (base 16) Algolith
400 Isabey
Saint-Laurent Qc H4T 1V3
CA

00-1D-C9 (hex) GainSpan Corp.
001DC9 (base 16) GainSpan Corp.
P.O. Box 223580
Carmel CA 93922
US

00-1D-EE (hex) NEXTVISION SISTEMAS DIGITAIS DE TELEVISÃO LTDA.
001DEE (base 16) NEXTVISION SISTEMAS DIGITAIS DE TELEVISÃO LTDA.
Alameda Rio Negro, 1030 - 19o. andar conj. 1904
Barueri São Paulo 06454-000
BR

00-1D-EA (hex) Commtest Instruments Ltd
001DEA (base 16) Commtest Instruments Ltd
Level 2, 22 Moorhouse Ave
Christchurch Canterbury 8243
NZ

00-1D-C7 (hex) L-3 Communications Geneva Aerospace
001DC7 (base 16) L-3 Communications Geneva Aerospace
4240 International Parkway
Carrollton Texas 75007
US

00-1E-2C (hex) CyVerse Corporation
001E2C (base 16) CyVerse Corporation
Shoutou Roukubankan Bldg. 4F
Shibuya-ku Tokyo 150-0046
JP

00-1E-26
(hex) Digifriends Co. Ltd
001E26 (base 16) Digifriends Co. Ltd
Joyang B/D 6th Floor
Seoul 135-090
KR

00-1E-23 (hex) Electronic Educational Devices, Inc
001E23 (base 16) Electronic Educational Devices, Inc
1903 S Grant St
Denver CO 80210
US

00-1D-B6 (hex) BestComm Networks, Inc.
001DB6 (base 16) BestComm Networks, Inc.
4400 E. Broadway Blvd.
Tucson AZ 85711
US

00-1D-AC (hex) Gigamon Systems LLC
001DAC (base 16) Gigamon Systems LLC
598 Gibraltar Drive
Milpitas CA 95035
US

00-1D-A2 (hex) Cisco Systems, Inc
001DA2 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1D-99 (hex) Cyan Optic, Inc.
001D99 (base 16) Cyan Optic, Inc.
1390 N. McDowell Blvd
Petaluma CA 94954
US

00-1D-9B (hex) Hokuyo Automatic Co., Ltd.
001D9B (base 16) Hokuyo Automatic Co., Ltd.
Niitaka 1-10-9
Osaka 532-0033
JP

00-1D-BC (hex) Nintendo
Co., Ltd.
001DBC (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU

KYOTO KYOTO 601-8501
JP

00-1E-13 (hex) Cisco Systems, Inc
001E13 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1E-0D (hex) Micran Ltd.
001E0D (base 16) Micran Ltd.
Vershinina st. 47
Tomsk Tomsk Region 634034
RU

00-1D-1C (hex) Gennet s.a.
001D1C (base 16) Gennet s.a.
2 Mesogeion ave.
Athens Attiki 11527
GR

00-1D-15 (hex) Shenzhen Dolphin Electronic Co., Ltd
001D15 (base 16) Shenzhen Dolphin Electronic Co., Ltd
Building21,Baoyuan, No.1 Industrial Zone,
Shenzhen Guangdong 518103
CN

00-1D-16 (hex) SFR
001D16 (base 16) SFR
40/42 Quai du point du jour
Boulongne Billancourt Hauts de Seine 92659
FR

00-1D-11 (hex) Analogue & Micro Ltd
001D11 (base 16) Analogue & Micro Ltd
Lakeside House
Llantarnam Industrial Park Cwmbran
NP44 3XS
GB

00-1D-12 (hex) ROHM CO., LTD.
001D12 (base 16) ROHM CO., LTD.
21 Saiin-Mizosaki-cho,
Kyoto-shi KYOTO 615-8585
JP

00-1D-86 (hex) Shinwa Industries(China) Ltd.
001D86 (base 16) Shinwa Industries(China) Ltd.

8 Pingnanzhong Road, Pingnan Industrial Park, Zhongkai No.4 Road,
Huizhou City Guangdong Province 516006
CN

00-1D-88 (hex) Clearwire
001D88 (base 16) Clearwire
1475 120th Ave NE
Bellevue Washington 98005
US

00-1D-81 (hex) GUANGZHOU GATEWAY ELECTRONICS CO., LTD
001D81 (base 16) GUANGZHOU GATEWAY ELECTRONICS CO., LTD
B20#,4F,No.9 Jiangong Road,Tianhe Software Park,Tianhe District,
GUANGZHOU Guangdong 510665
CN

00-1D-49 (hex) Innovation Wireless Inc.
001D49 (base 16) Innovation Wireless Inc.
4F-1, NO.81, SHUEILI RD.
HSINCHU 30059
TW

00-1D-46 (hex) Cisco Systems, Inc
001D46 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1D-48
(hex) Sensor-Technik Wiedemann GmbH
001D48 (base 16) Sensor-Technik Wiedemann GmbH
Am Bärenwald 6
Kaufbeuren Bayern 87600
DE

00-1D-47 (hex) Covote GmbH & Co KG
001D47 (base 16) Covote GmbH & Co KG
Ritterhufen 30
Berlin 14165
DE

00-1D-41 (hex) Hardy Instruments
001D41 (base 16) Hardy Instruments
3860 Calle Fortunada
San Diego CA 92123
US

00-1D-3D (hex) Avidyne Corporation

001D3D (base 16) Avidyne Corporation
202 West Dr
Melbourne FL 32904
US

00-1D-3C (hex) Muscle Corporation
001D3C (base 16) Muscle Corporation
2-5-35, Kikawa-higashi
Osaka 532-0012
JP

00-1D-3A (hex) mh acoustics LLC
001D3A (base 16) mh acoustics LLC
25A Summit Ave
Summit NJ 07901
US

00-1D-35 (hex) Viconics Electronics Inc.
001D35 (base 16) Viconics Electronics Inc.
9245 Langelier
Saint Leonard Quebec H1P3K9
CA

00-1D-31 (hex) HIGHPRO INTERNATIONAL
R&D CO,.LTD.
001D31 (base 16) HIGHPRO INTERNATIONAL R&D CO,.LTD.
3F,No.295,RuiGuang Rd,Nei Hu,
Taipei 114
TW

00-1D-66 (hex) Hyundai Telecom
001D66 (base 16) Hyundai Telecom
Hyundai Telecom Bldg., 4273-12, Shingil-Dong, Youngdungpo-Gu,
Seoul 150-859
KR

00-1D-77 (hex) NSGate
001D77 (base 16) NSGate
Rm 1304, 39 Kirpichnaya Street
Moscow 105187
RU

00-1D-76 (hex) Eyeheight Ltd.
001D76 (base 16) Eyeheight Ltd.
Unit 34, Park House
Watford Herts WD18 8PH
GB

00-1D-7A (hex) Wideband Semiconductor, Inc.
001D7A (base 16) Wideband Semiconductor, Inc.
1350 Pear Ave
Mountain View CA 94043
US

00-1D-68 (hex) Thomson Telecom Belgium
001D68 (base 16) Thomson Telecom Belgium
Prins Boudewijnlaan 47
Edegem Antwerp B-2650
BE

00-1D-61 (hex) BIJ Corporation
001D61 (base 16) BIJ Corporation
7F Takamizawa Building,2-7-10,
Yokohama Kanagawa 220-0004
JP

00-1D-5C
(hex) Tom Communication Industrial Co.,Ltd.
001D5C (base 16) Tom Communication Industrial Co.,Ltd.
1173 Nippa-choh Kohoku-ku
Yokohama Kanagawa 223-0057
JP

00-1D-89 (hex) VaultStor Corporation
001D89 (base 16) VaultStor Corporation
1010 Brioso Drive
Costa Mesa CA 92627
US

00-1D-26 (hex) Rockridgesound Technology Co.
001D26 (base 16) Rockridgesound Technology Co.
Fumin Industrial Park, Houjie Town
Dong Guan Guang Dong 523956
CN

00-1D-21 (hex) Alcad SL
001D21 (base 16) Alcad SL
Pol. Ind. Arreche-Ugalde, 1
Irún Guipúzcoa E-20305
ES

00-1D-56 (hex) Kramer Electronics Ltd.
001D56 (base 16) Kramer Electronics Ltd.
3 Am VeOlamo Street
Jerusalem 95463
IL

00-1D-4E (hex) TCM Mobile LLC
001D4E (base 16) TCM Mobile LLC
9218 Metcalf,
Overland Park Kansas 66212
US

00-1C-E1 (hex) INDRA SISTEMAS, S.A.
001CE1 (base 16) INDRA SISTEMAS, S.A.
Ctra.
de Loeches, n.º 9
Torrejón de Ardoz MADRID 28850
ES

00-1C-E0 (hex) DASAN TPS
001CE0 (base 16) DASAN TPS
HUMAX Village 6F, 11-4 Sunae-dong, Bundang-gu
Seongnam-si Gyeonggi-do 463-825
KR

00-1C-D9 (hex) GlobalTop Technology Inc.
001CD9 (base 16) GlobalTop Technology Inc.
16 Nan-ke 9th Rd. Science-base Industrial Park,
ShanHua Tainan county 741
TW

00-1C-DA (hex) Exegin Technologies Limited
001CDA (base 16) Exegin Technologies Limited
401 - 2071 Kingsway Avenue
Port Coquitlam BC V3C 6N2
CA

00-1C-8E (hex) Alcatel-Lucent IPD
001C8E (base 16) Alcatel-Lucent IPD
701 E. Middlefield Rd.
Mountain View CA 94043
US

00-1C-8F (hex) Advanced Electronic Design, Inc.
001C8F (base 16) Advanced Electronic Design, Inc.
344 John L Dietsch Blvd., Unit #2
North Attleboro MA 02763
US

00-1C-88 (hex) TRANSYSTEM INC.
001C88 (base 16) TRANSYSTEM INC.
No. 1-2, Li-Hsin Rd 1,

Science-Based Industrial Park
Hsinchu 300
TW

00-1C-86 (hex) Cranite Systems, Inc.
001C86 (base 16) Cranite Systems, Inc.
121 Albright Way
Los Gatos CA 95032
US

00-1C-7F (hex) Check Point Software Technologies
001C7F (base 16) Check Point Software Technologies
3A Jabotinsky St.
Ramat Gan 52520
IL

00-1C-99 (hex) Shunra Software Ltd.
001C99 (base 16) Shunra Software Ltd.
20 Hata'as St.
Kefar-Saba 44425
IL

00-1C-9B (hex) FEIG ELECTRONIC GmbH
001C9B (base 16) FEIG ELECTRONIC GmbH
Lange Straße 4
Weilburg Hessen 35781
DE

00-1C-95 (hex) Opticomm Corporation
001C95 (base 16) Opticomm Corporation
6827 Nancy Ridge Dr
San Diego CA 92121
US

00-1C-97 (hex) Enzytek Technology Inc.,
001C97 (base 16) Enzytek Technology Inc.,
7F, No.35, Hsueh Fu Rd.,
Hsinchu 300,
TW

00-1C-90 (hex) Empacket Corporation
001C90 (base 16) Empacket Corporation
2-6-3
Nishi-Gotanda
Shinagawa Tokyo 141-0031
JP

00-1C-F1 (hex) SUPoX Technology Co. , LTD.

001CF1 (base 16) SUPoX Technology Co. , LTD.
7F, 419 , Chung San Rd. , Sec 2
Chung Ho Taipei Hsien 235
TW

00-1C-F3 (hex) EVS BROADCAST EQUIPMENT
001CF3 (base 16) EVS BROADCAST EQUIPMENT
Liege Science Park
Ougree Liege 4102
BE

00-1C-F4 (hex) Media Technology Systems Inc
001CF4 (base 16) Media Technology Systems Inc
766 Lakefield Road
Westlake Village CA 91377
US

00-1C-E6 (hex) INNES
001CE6 (base 16) INNES
80 avenue des Buttes de Coësmes
RENNES 35700
FR

00-1C-78 (hex) WYPLAY SAS
001C78 (base 16) WYPLAY SAS
200 avenue de Provence
ALLAUCH BdR 13190
FR

00-1C-6E (hex) Newbury Networks, Inc.
001C6E (base 16) Newbury Networks, Inc.
419 Boylston Street
Boston MA 02116
US

00-1C-6B (hex) COVAX Co. Ltd
001C6B (base 16) COVAX Co. Ltd
3-27-22 kitahanada-cho
kitaku
sakai-shi oosaka 591-8002
JP

00-1C-A3 (hex) Terra
001CA3 (base 16) Terra
Draugystes str. 22
Kaunas LT-51256
LT

00-1C-A6 (hex) Win4NET
001CA6 (base 16) Win4NET
1301 KOLON Digital Tower,
Kuro-gu Seoul 152-848
KR

00-1C-A9 (hex) Audiomatica Srl
001CA9 (base 16) Audiomatica Srl
Via Manfredi 12
Florence Italy 50136
IT

00-1C-D2 (hex) King Champion (Hong Kong) Limited
001CD2 (base 16) King Champion (Hong Kong) Limited
Unit 1520, 15/F, Phase 1, Metro Centre,
Kowloon
HK

00-1C-CE (hex) By Techdesign
001CCE (base 16) By Techdesign
C/ Tomas Edison 5
Arganda del Rey Madrid 28500
ES

00-1D-03 (hex) Design Solutions Inc.
001D03 (base 16) Design Solutions Inc.
81 David Love Place
Goleta Ca 93117
US

00-1C-F9 (hex) Cisco Systems, Inc
001CF9 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1C-B9
(hex) KWANG SUNG ELECTRONICS CO., LTD.
001CB9 (base 16) KWANG SUNG ELECTRONICS CO., LTD.
201, WORLD VENTURE TOWN 60-24, GASAN-DONG GEUMCHUN-GU,
SEOUL 153-801
KR

00-1C-58 (hex) Cisco Systems, Inc
001C58 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1C-5A (hex) Advanced Relay Corporation
001C5A (base 16) Advanced Relay Corporation
1896 Columbia St
Eugene OR 97403
US

00-1C-4F (hex) MACAB AB
001C4F (base 16) MACAB AB
Vannhögsgatan 7
Trelleborg 23166
SE

00-1C-4E (hex) TASA International Limited
001C4E (base 16) TASA International Limited
5FÃ‚Â£Ã‚Â¬Building2Ã‚Â£Ã‚Â¬No.1295 ,Xin Jinqiao Road,
Shanghai 201206
CN

00-1C-4B (hex) Gener8, Inc.
001C4B (base 16) Gener8, Inc.
897 Independence Ave
Mountain View CA 94043
US

00-1C-18 (hex) Sicert S.r.L.
001C18 (base 16) Sicert S.r.L.
Via Bernardino Alimena, 128
Rome
00173
IT

00-1C-1A (hex) Thomas Instrumentation, Inc
001C1A (base 16) Thomas Instrumentation, Inc
133 Landing Rd
Cape May Court House NJ 08210
US

00-1C-0E (hex) Cisco Systems, Inc
001C0E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1C-13 (hex) OPTSYS TECHNOLOGY CO., LTD.
001C13 (base 16) OPTSYS TECHNOLOGY CO., LTD.
SUITE B-802 BUNDANG TECHNO PARK
SEONGNAM-SI GYEONGGI-DO 463-760

KR

00-1C-0B (hex) SmartAnt Telecom
001C0B (base 16) SmartAnt Telecom
2F, No. 669, Sec. 4, Chung Hsing Rd., Chutung
Hsinchu 310
TW

00-1C-21 (hex) Nucsafe Inc.
001C21 (base 16) Nucsafe Inc.
601 Oak Ridge Turnpike
Oak Ridge Tennessee 37830
US

00-1C-1E (hex) emtrion GmbH
001C1E (base 16) emtrion GmbH
Alter Schlachthof 45
Karlsruhe Baden Wuerttemberg 76131
DE

00-1C-40 (hex) VDG-Security bv
001C40 (base 16) VDG-Security bv
Radonstraat 10-14
Zoetermeer
ZH 2718 TA
NL

00-1C-3A (hex) Element Labs, Inc.
001C3A (base 16) Element Labs, Inc.
3350 Scott Boulevard
Santa Clara CA 95054
US

00-1C-3D (hex) WaveStorm
001C3D (base 16) WaveStorm
Rue d'Oradour-sur-Glâne
Paris ÃƒÅ½le-de-France 75015
FR

00-1C-08 (hex) Echo360, Inc.
001C08 (base 16) Echo360, Inc.
11955 Freedom Drive
Reston VA 20190
US

00-1B-F4 (hex) KENWIN INDUSTRIAL(HK) LTD.
001BF4 (base 16) KENWIN INDUSTRIAL(HK) LTD.
RM.1512 15/F SHATIN GALLERIA

HK

00-1B-F9 (hex) Intellitect Water Ltd
001BF9 (base 16) Intellitect Water Ltd
Suite 19, Basepoint Business Centre
Christchurch Dorset BH23 ^NW
GB

00-1B-FA (hex) G.i.N. mbH
001BFA (base 16) G.i.N. mbH
Raiffeisenstraße 15
Griesheim Hessen 64347
DE

00-1B-F3 (hex) TRANSRADIO SenderSysteme Berlin AG
001BF3 (base 16) TRANSRADIO SenderSysteme Berlin AG
Mertensstrasse 63
Berlin
13587
DE

00-1B-DE (hex) Renkus-Heinz, Inc.
001BDE (base 16) Renkus-Heinz, Inc.
19201 Cook St.
Foothill Ranch CA 92610
US

00-1B-DB (hex) Valeo VECS
001BDB (base 16) Valeo VECS
2 Avenue Fernand Pouillon
CRETEIL Ile de France 94042
FR

00-1C-69 (hex) Packet Vision Ltd
001C69 (base 16) Packet Vision Ltd
SC House
Maidenhead Berks SL6 4UB
GB

00-1C-65 (hex) JoeScan, Inc.
001C65 (base 16) JoeScan, Inc.
4510 NE 68th Dr, Ste. 124
Vancouver WA 98661
US

00-1C-5F (hex) Winland Electronics, Inc.
001C5F (base 16) Winland Electronics, Inc.

1950 Excel Drive
Mankato MN 56001
US

00-1C-2D (hex) FlexRadio Systems
001C2D (base 16) FlexRadio Systems
8900 Marybank Dr.
Austin TX 78750
US

00-1C-2C (hex) Synapse
001C2C (base 16) Synapse
132 Export Circle
Huntsville AL 35806
US

00-1B-D8 (hex) FLIR Systems Inc
001BD8 (base 16) FLIR Systems
Inc
65 Challenger Road
Ridgefield Park NJ 07660-2103
US

00-1B-D4 (hex) Cisco Systems, Inc
001BD4 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1B-D0 (hex) IDENTEC SOLUTIONS
001BD0 (base 16) IDENTEC SOLUTIONS
Hertzstraße 10
Weinheim 69469
DE

00-1B-CD (hex) DAVISCOMMS (S) PTE LTD
001BCD (base 16) DAVISCOMMS (S) PTE LTD
Blk 70 Ubi Crescent #01-07
408570
SG

00-1B-CA (hex) Beijing Run Technology LTD. Company
001BCA (base 16) Beijing Run Technology LTD. Company
4/F, Hangtian Technology Building
Beijing 100037
CN

00-1B-CC (hex) KINGTEK CCTV ALLIANCE CO., LTD.

001BCC (base 16) KINGTEK CCTV ALLIANCE CO., LTD.
5F-3, NO. 106, SEC. 3, HSIN YI ROAD
TAIPEI 106
TW

00-1B-51 (hex) Vector Technology Corp.
001B51 (base 16) Vector Technology Corp.
No.7, Lane12, Yajou Road.
Tucheng Taipei 236
TW

00-1B-54 (hex) Cisco
Systems, Inc
001B54 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1B-4A (hex) W&W Communications, Inc.
001B4A (base 16) W&W Communications, Inc.
2903 Bunker Hill Lane
Santa Clara CA 95054
US

00-1B-C8 (hex) MIURA CO.,LTD
001BC8 (base 16) MIURA CO.,LTD
620-1,Nakanishisoto
Matsuyama Ehime 799-2425
JP

00-1B-C1 (hex) HOLUX Technology, Inc.
001BC1 (base 16) HOLUX Technology, Inc.
1F, No. 30, R&D Rd. II,
Hsinchu 300
TW

00-1B-BC (hex) Silver Peak Systems, Inc.
001BBC (base 16) Silver Peak Systems, Inc.
471 El Camino Real
Santa Clara CA 95050
US

00-1B-AB (hex) Telchemy, Incorporated
001BAB (base 16) Telchemy, Incorporated
2905 Premiere Parkway
Duluth GA 30097
US

00-1B-AE (hex) Micro Control Systems, Inc
001BAE (base 16) Micro Control Systems, Inc
5580 Enterprise Parkway
Fort Myers Florida 33905
US

00-1B-A8
(hex) UBI&MOBI,.Inc
001BA8 (base 16) UBI&MOBI,.Inc
3F, Duido Bldg, #288-5, Yangjae-Dong
Seocho-Gu Seoul 137-130
KR

00-1B-83 (hex) Finsoft Ltd
001B83 (base 16) Finsoft Ltd
16-18 Hatton Garden
London EC1N 8AT
GB

00-1B-81 (hex) DATAQ Instruments, Inc.
001B81 (base 16) DATAQ Instruments, Inc.
241 Springside Drive
Akron Ohio 44333
US

00-1B-7D (hex) CXR Anderson Jacobson
001B7D (base 16) CXR Anderson Jacobson
Rue de l'ornette
Abondant 28410
FR

00-1B-79 (hex) FAIVELEY TRANSPORT
001B79 (base 16) FAIVELEY TRANSPORT
ZI du bois de plante
LA VILLE AUX DAMES 37700
FR

00-1B-65 (hex) China Gridcom Co., Ltd
001B65 (base 16) China Gridcom Co., Ltd
21/F, Huaneng Building, No. 2068 Shennan Main Road
Shenzhen Guangdong 0086
CN

00-1B-64 (hex) IsaacLandKorea Co., Ltd,
001B64 (base 16) IsaacLandKorea Co., Ltd,
Rm 608, Hangang-Hyundai-Hyel Bldg. 2-36,
Seoul

140-871
KR

00-1B-88 (hex) Divinet Access Technologies Ltd
001B88 (base 16) Divinet Access Technologies Ltd
4th Floor, Media Center,
Pune Maharashtra 411007
IN

00-1B-71 (hex) Telular Corp.
001B71 (base 16) Telular Corp.
311 South Wacker Drive
Chicago IL 60606
US

00-1B-73 (hex) DTL Broadcast Ltd
001B73 (base 16) DTL Broadcast Ltd
Johnson's Estate
HAYES Middlesex UB3 3BA
GB

00-1B-A0 (hex) Awox
001BA0 (base 16) Awox
93, Place Pierre Duhem,
Montpellier Herault 34000
FR

00-1B-97 (hex) Violin Technologies
001B97 (base 16) Violin Technologies
33 Wood Ave South
Iselin NJ 08830
US

00-1B-35 (hex) ChongQing JINOU Science & Technology Development CO.,Ltd
001B35 (base 16) ChongQing JINOU Science & Technology Development CO.,Ltd
Chuangyeyuan 208# Keyuan 3rd Road 106#
Chongqing 400030
CN

00-1B-36 (hex) Tsubata Engineering Co.,Ltd. (Head Office)
001B36
(base 16) Tsubata Engineering Co.,Ltd. (Head Office)
Koyanagi 1-2
Ibaraki Osaka 567-0852
JP

00-1B-39 (hex) Proxicast
001B39 (base 16) Proxicast

312 Sunnyfield Drive
Glenshaw PA 15116
US

00-1B-3B (hex) Yi-Qing CO., LTD
001B3B (base 16) Yi-Qing CO., LTD
310 ROOM,12F
TAIPEI 100
TW

00-1B-1C (hex) Coherent
001B1C (base 16) Coherent
1280 Blues Hills Ave.
Bloomfield CT 06002
US

00-1B-22 (hex) Palit Microsystems (H.K.) Ltd.
001B22 (base 16) Palit Microsystems (H.K.) Ltd.
Room 4-6,11F,Nan Fung Commercial Center
Kowloon 111
HK

00-1B-19 (hex) IEEE I&M Society TC9
001B19 (base 16) IEEE I&M Society TC9
100 Bureau Dr., Mail Stop 8220
Gaithersburg MD 20899-8220
US

00-1B-13 (hex) Icron Technologies Corporation
001B13 (base 16) Icron Technologies Corporation
221 - 4664 Lougheed Highway
Burnaby BC V5C 5T5
CA

00-1A-FA (hex) Welch Allyn, Inc.
001AFA
(base 16) Welch Allyn, Inc.
4619 Jordan Road
Skaneateles Falls NY 13153-0187
US

00-1A-F7 (hex) dataschalt e+a GmbH
001AF7 (base 16) dataschalt e+a GmbH
An der Hülshorst 7-9
Lübeck 23568
DE

00-1A-F3 (hex) Samyoung Electronics

001AF3 (base 16) Samyoung Electronics
146-1, sangdaewon-dong, joongwon-gu
sungnam-shi Gyunggi-do 462-807
KR

00-1A-EF (hex) Loopcomm Technology, Inc.
001AEF (base 16) Loopcomm Technology, Inc.
18F-1, No. 150, Jian Yi Rd.,
Chung-Ho City Taipei Hsien 235
TW

00-1A-EC (hex) Keumbee Electronics Co.,Ltd.
001AEC (base 16) Keumbee Electronics Co.,Ltd.
3-26, Jangsang-dong, Sangrok-gu
Ansan-si Kyungki-do 426-410
KR

00-1B-44 (hex) SanDisk Corporation
001B44 (base 16) SanDisk Corporation
601 McCarthy Boulevard
Milpitas CA 95035
US

00-1B-46 (hex) Blueone Technology Co.,Ltd
001B46 (base 16) Blueone Technology Co.,Ltd
Room 309,3
Floor, 404 Building, ShangBu industrial
Shenzhen Guangdong 518028
CN

00-1B-40 (hex) Network Automation mxc AB
001B40 (base 16) Network Automation mxc AB
Box 7294
Stockholm 10390
SE

00-1B-42 (hex) Wise & Blue
001B42 (base 16) Wise & Blue
#715-3 Anyang Megavalley
Anyang-Si Gyunggi-Do 431-767
KR

00-1A-BA (hex) Caton Overseas Limited
001ABA (base 16) Caton Overseas Limited
Room 102, No. 101, Lane 91
Shanghai 200127
CN

00-1A-B3 (hex) VISIONITE INC.
001AB3 (base 16) VISIONITE INC.
#707 Daeryung Technotown-2 569-21
Seoul 153-771
KR

00-1B-26 (hex) RON-Telecom ZAO
001B26 (base 16) RON-Telecom ZAO
15 A, Zarechnaya st.
Trehgorny Chelyabinsk region 456080
RU

00-1B-20 (hex) TPine Technology
001B20 (base 16) TPine Technology
3F, No.1, AN-I Rd,
Keelung 111
TW

00-1A-CA (hex) Tilera Corporation
001ACA (base 16) Tilera Corporation
1900 West
Park Drive
Westborough MA 01581
US

00-1A-B9 (hex) PMC
001AB9 (base 16) PMC
56, avenue Raspail
Saint Maur 94100
FR

00-1B-0F (hex) Petratec
001B0F (base 16) Petratec
12 Derech HaSharon
Kfar Saba Sharon 44271
IL

00-1A-D1 (hex) FARGO CO., LTD.
001AD1 (base 16) FARGO CO., LTD.
4F. KYEMYUNG B/D
SEOUL 135 885
KR

00-1A-3E (hex) Faster Technology LLC
001A3E (base 16) Faster Technology LLC
1812 Avenue D
Katy Texas 77493
US

00-1A-3A (hex) Dongahelecomm
001A3A (base 16) Dongahelecomm
678-3,Jeil-ri,Yanggi-myun,Cheoin-gu
Yongin-si Gyeonggi-do 449-821
KR

00-1A-3B (hex) Doah Elecom Inc.
001A3B (base 16) Doah Elecom Inc.
8th fl. Century Plaza, 277-40
Seoul 133-123
KR

00-1A-3C (hex) Technowave Ltd.
001A3C (base 16) Technowave Ltd.
Sakurai Bldg.1F,
Musashino-shi Tokyo 180-0006
JP

00-1A-40 (hex) A-FOUR TECH CO., LTD.
001A40 (base
16) A-FOUR TECH CO., LTD.
6F, No. 108, Min-Chuan Rd.,
Hsin-Tien Taipei 23141
TW

00-1A-8C (hex) Sophos Ltd
001A8C (base 16) Sophos Ltd
The Pentagon
Abingdon Oxfordshire OX14 3YP
GB

00-1A-91 (hex) FusionDynamic Ltd.
001A91 (base 16) FusionDynamic Ltd.
1 B.S.R. towers, 4-th floor
Ramat Gan 52573
IL

00-1A-84 (hex) V One Multimedia Pte Ltd
001A84 (base 16) V One Multimedia Pte Ltd
Blk 54, Kallang Bahru
339336
SG

00-1A-6D (hex) Cisco Systems, Inc
001A6D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568

US

00-1A-6E (hex) Impro Technologies
001A6E (base 16) Impro Technologies
47B Gillits Rd
Pinetown KwaZulu-Natal 3610
ZA

00-1A-6C (hex) Cisco Systems, Inc
001A6C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1A-63 (hex) Elster Solutions, LLC,
001A63 (base 16) Elster Solutions, LLC,
208
South Rogers Lane
Raleigh NC 27610
US

00-1A-A9 (hex) FUJIAN STAR-NET COMMUNICATION CO.,LTD
001AA9 (base 16) FUJIAN STAR-NET COMMUNICATION CO.,LTD
19-22# Building, Star-net Science Plaza, Juyuanzhou,
FUZHOU FUJIAN 350002
CN

00-1A-A8 (hex) Mamiya Digital Imaging Co., Ltd.
001AA8 (base 16) Mamiya Digital Imaging Co., Ltd.
2-2, 1-chome, Koraku
Bunkyo-ku Tokyo 112-0004
JP

00-1A-99 (hex) Smarty (HZ) Information Electronics Co., Ltd
001A99 (base 16) Smarty (HZ) Information Electronics Co., Ltd
Yonghua Industrial District,Huishen Road,Zhenlong Town
HuiZhou GuangDong 516227
CN

00-1A-7B (hex) Teleco, Inc.
001A7B (base 16) Teleco, Inc.
430 Woodruff Rd.
Greenville SC 29607
US

00-1A-96 (hex) ECLER S.A.
001A96 (base 16) ECLER S.A.
Motors 166-168

Barcelona 08038
ES

00-1A-46 (hex) Digital Multimedia Technology Co., Ltd
001A46 (base 16) Digital Multimedia Technology
Co., Ltd
Doorim Bldg, 3rd Fl, 164-21 Poi-Dong,
Seoul Kangnam-Gu 135-960
KR

00-1A-4A (hex) Qumranet Inc.
001A4A (base 16) Qumranet Inc.
530 Lakeside Drive
Sunnyvale California 94085
US

00-1A-59 (hex) Ircona
001A59 (base 16) Ircona
Unit 4B-1, Corporate Park
Blanchardstown Dublin 15
IE

00-1A-01 (hex) Smiths Medical
001A01 (base 16) Smiths Medical
4350 Rivergreen Parkway
Duluth GA 30096
US

00-19-FE (hex) SHENZHEN SEECOMM TECHNOLOGY CO.,LTD.
0019FE (base 16) SHENZHEN SEECOMM TECHNOLOGY CO.,LTD.
Room 609,404Yannan Road
ShenZhen Guangdong
CN

00-19-CD (hex) Chengdu ethercom information technology Ltd.
0019CD (base 16) Chengdu ethercom information technology Ltd.
South Extension of Tianfu Wide Road No.7 department room 201
Chengdu Sichuan 610041
CN

00-19-D9 (hex) Zeutschel GmbH
0019D9 (base 16) Zeutschel GmbH
Heerweg 2
Tübingen-Hirschau BW D-72070
DE

00-19-CA

(hex) Broadata Communications, Inc
0019CA (base 16) Broadata Communications, Inc
2545 W 237th St Ste K
Torrance CA 90505
US

00-19-D3 (hex) TRAK Microwave
0019D3 (base 16) TRAK Microwave
4726 Eisenhower Blvd
Tampa FL 33634
US

00-19-C3 (hex) Qualitrol
0019C3 (base 16) Qualitrol
Wildflower Way
Belfast Co. Antrim BT12 6TA
GB

00-1A-0D (hex) HandHeld entertainment, Inc.
001A0D (base 16) HandHeld entertainment, Inc.
539 Bryant Street, Suite 403
San Francisco CA 94103
US

00-1A-0E (hex) Cheng Uei Precision Industry Co.,Ltd
001A0E (base 16) Cheng Uei Precision Industry Co.,Ltd
Junda Industry District, Dongkeng Town,Dongguan City
DongGuan Guang Dong 523455
CN

00-19-BE (hex) Altai Technologies Limited
0019BE (base 16) Altai Technologies Limited
2/F, East Wing, Lakeside 2, 10 Science Park West Avenue,
Shatin New Territories
HK

00-19-B4 (hex) Intellio
Ltd
0019B4 (base 16) Intellio Ltd
Gyarmat u. 99/B
Budapest 1147
HU

00-19-BA (hex) Paradox Security Systems Ltd
0019BA (base 16) Paradox Security Systems Ltd
780 Industrial Blvd
St-Eustache Quebec J7R 5V3
CA

00-1A-26 (hex) Deltanode Solutions AB
001A26 (base 16) Deltanode Solutions AB
Box 92 184
Stockholm 120 09
SE

00-1A-25 (hex) DELTA DORE
001A25 (base 16) DELTA DORE
BONNEMAIN
COMBOURG BRETAGNE 35 35270
FR

00-19-FD (hex) Nintendo Co., Ltd.
0019FD (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

00-19-ED (hex) Axesstel Inc.
0019ED (base 16) Axesstel Inc.
6815 Flanders Sr.
San Diego CA 92121
US

00-19-F6 (hex) Acconet (PTE) Ltd
0019F6 (base 16) Acconet (PTE) Ltd
No. 16 Ayer Rajah Crescent
Singapore 139965
SG

00-1A-30 (hex) Cisco Systems, Inc
001A30 (base 16) Cisco Systems,
Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1A-36 (hex) Aipermon GmbH & Co. KG
001A36 (base 16) Aipermon GmbH & Co. KG
Zamdorfer Str. 100
Munich Bavaria D-81677
DE

00-1A-15 (hex) gemalto e-Payment
001A15 (base 16) gemalto e-Payment
6 rue de la Verrerie
Meudon 92197

FR

00-19-78 (hex) Datum Systems, Inc.
001978 (base 16) Datum Systems, Inc.
3666 Tiffani Ct.
Santa Cruz CA 95065
US

00-19-68 (hex) Digital Video Networks(Shanghai) CO. LTD.
001968 (base 16) Digital Video Networks(Shanghai) CO. LTD.
9th Floor,Hechuan Building, No.1026 YiShan Rd
Shanghai 201103
CN

00-19-50 (hex) Harman Multimedia
001950 (base 16) Harman Multimedia
8400 Balboa Blvd.
Northridge CA 91329
US

00-19-4C (hex) Fujian Stelcom information & Technology CO.,Ltd
00194C (base 16) Fujian Stelcom information & Technology CO.,Ltd
4F,Building A,Start Science Park, No.68,Hongshanyuan
Rd
Fuzhou Fujian 350002
CN

00-19-4A (hex) TESTO AG
00194A (base 16) TESTO AG
Testo Straße 1
Lenzkirch Baden-Württemberg 79853
DE

00-19-39 (hex) Gigamips
001939 (base 16) Gigamips
5th Floor, Yangjae Building, 261, Yangjae-Dong
Seocho-Gu Seoul 137-130
KR

00-19-3A (hex) OESOLUTIONS
00193A (base 16) OESOLUTIONS
Technopark, 958-3 Daechon-Dong, Buk-Gu
Gwangju Buk-Gu 500-706
KR

00-19-83 (hex) CCT R&D Limited
001983 (base 16) CCT R&D Limited
18/F CCT Telecom Building

Fotan, Shatin N.T. 000
HK

00-19-7F (hex) PLANTRONICS, INC.
00197F (base 16) PLANTRONICS, INC.
345 ENCINAL STREET
SANTA CRUZ CA 95060
US

00-19-7A (hex) MAZeT GmbH
00197A (base 16) MAZeT GmbH
Goeschwitzer Str. 32
Jena D-07745
DE

00-19-8A (hex) Northrop Grumman Systems Corp.
00198A (base 16) Northrop Grumman Systems Corp.
7055 Troy Hill Drive
Elkridge Maryland
21075
US

00-19-89 (hex) Sonitrol Corporation
001989 (base 16) Sonitrol Corporation
1707 Orlando Central Pkwy.
Orlando FL 32809
US

00-19-80 (hex) Gridpoint Systems
001980 (base 16) Gridpoint Systems
4043 Carling Avenue, Suite 200
Ottawa Ontario K2K 2A3
CA

00-19-60 (hex) DoCoMo Systems, Inc.
001960 (base 16) DoCoMo Systems, Inc.
Meguro Techno Bldg. 2nd Floor
Shinagawa-ku Tokyo 141-0031
JP

00-19-5A (hex) Jenaer Antriebstechnik GmbH
00195A (base 16) Jenaer Antriebstechnik GmbH
Buchaer Strasse 1
Jena Thueringen 07745
DE

00-19-A1 (hex) LG INFORMATION & COMM.
0019A1 (base 16) LG INFORMATION & COMM.

60-39,Kasan-dong,Kumchon-ku
Seoul 153-023
KR

00-19-A8 (hex) WiQuest Communications
0019A8 (base 16) WiQuest Communications
915 Enterprise Blvd.
Allen Texas 75013
US

00-19-6D (hex) Raybit Systems Korea, Inc
00196D (base 16) Raybit Systems Korea, Inc
Dream
Tower 1221
Seoul 158-718
KR

00-19-70 (hex) Z-Com, Inc.
001970 (base 16) Z-Com, Inc.
7F-2, NO.9, PROSPERITY 1ST RD.
HSINCHU 300
TW

00-18-C3 (hex) CS Corporation
0018C3 (base 16) CS Corporation
CS-building, Pangyo seven venture valley 625
Seongnam-si Gyeonggi-do 463-400
KR

00-18-CA (hex) Viprinet GmbH
0018CA (base 16) Viprinet GmbH
Basilikastraße 3
Bingen am Rhein 55411
DE

00-18-C7 (hex) Real Time Automation
0018C7 (base 16) Real Time Automation
2825 N Mayfair Rd Ste 11
Wauwatosa WI 53222
US

00-18-BB (hex) Eliwell Controls srl
0018BB (base 16) Eliwell Controls srl
Via dell'Industria, 15
Pieve d'Alpago Belluno 32010
IT

00-18-BF (hex) Essence Technology Solution, Inc.

0018BF (base 16) Essence Technology Solution, Inc.
B1, No. 207, Beisin Rd., Sec. 3
Sindian, Taipei County 231
TW

00-18-B9 (hex) Cisco Systems, Inc
0018B9 (base
16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-18-B8 (hex) New Voice International AG
0018B8 (base 16) New Voice International AG
St. Gallerstrasse 8
Lachen SZ 8853
CH

00-18-EE (hex) Videology Imaging Solutions, Inc.
0018EE (base 16) Videology Imaging Solutions, Inc.
37 M Lark Industrial Parkway
Greenville RI 02828-3001
US

00-18-EB (hex) Blue Zen Enterprises Private Limited
0018EB (base 16) Blue Zen Enterprises Private Limited
No 2&3 (First Floor) Kurban Ali Street
Chennai Tamil Nadu 600002
IN

00-18-E2 (hex) Topdata Sistemas de Automacao Ltda
0018E2 (base 16) Topdata Sistemas de Automacao Ltda
Rua Dr Carvalho Chaves, 662
Curitiba PR 80.220-010
BR

00-18-D1 (hex) Siemens Home & Office Comm. Devices
0018D1 (base 16) Siemens Home & Office Comm. Devices
4849 Alpha Rd.
Dallas Texas 75244
US

00-18-D0 (hex) AtRoad, A Trimble Company
0018D0
(base 16) AtRoad, A Trimble Company
47071 Bayside Parkway
Fremont California 94538
US

00-18-D2 (hex) High-Gain Antennas LLC
0018D2 (base 16) High-Gain Antennas LLC
11679 S. Cormorant Circle
Parker CO 80134
US

00-18-D3 (hex) TEAMCAST
0018D3 (base 16) TEAMCAST
Centre Espace Performance
Saint Gregoire 35769
FR

00-18-C6 (hex) OPW Fuel Management Systems
0018C6 (base 16) OPW Fuel Management Systems
6900 Santa Fe Drive
Hodgkins Illinois 60525
US

00-19-24 (hex) LBNL Engineering
001924 (base 16) LBNL Engineering
1 Cyclotron Rd.
Berkeley CA 94720
US

00-19-1A (hex) IRLINK
00191A (base 16) IRLINK
HanYoung B/D 6F, 4-6
SEOUL 138-824
KR

00-19-16 (hex) PayTec AG
001916 (base 16) PayTec AG
Rosengartenstrasse 3
Zollikerberg ZH 8125
CH

00-19-0E (hex) Atech Technology Co., Ltd.
00190E (base 16) Atech Technology Co., Ltd.
4 Fl.,
No. 103, Sec 2, Jiuzong Rd.
Taipei 114
TW

00-19-2F (hex) Cisco Systems, Inc
00192F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568

US

00-19-22 (hex) CM Comandos Lineares
001922 (base 16) CM Comandos Lineares
Av Eng Alberto de Zagottis, 760
São Paulo SP 04675-085
BR

00-19-1D (hex) Nintendo Co., Ltd.
00191D (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

00-19-05 (hex) SCHRACK Seconet AG
001905 (base 16) SCHRACK Seconet AG
Eibesbrunnergasse 18
Wien Österreich 1122
AT

00-19-07 (hex) Cisco Systems, Inc
001907 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-18-FB (hex) Compro Technology
0018FB (base 16) Compro Technology
3/F No 12, Alley 6, Lane 45, Pao Shin Rd
Hsintien 231
TW

00-18-DC (hex) Prostar Co., Ltd.
0018DC (base 16) Prostar Co., Ltd.
A-703
Technotown, 250-3 Hagye-dong, Nowon-gu
Seoul 139-230
KR

00-18-8F (hex) Montgomery Technology, Inc.
00188F (base 16) Montgomery Technology, Inc.
800 East Commerce Street
Greenville AL 36037
US

00-18-84 (hex) Fon Technology S.L.
001884 (base 16) Fon Technology S.L.
Avda. Bruselas, n. 7, Planta 3, Alcobendas

Madrid 28100
ES

00-18-80 (hex) Maxim Integrated Products
001880 (base 16) Maxim Integrated Products
160 Rio Robles
San Jose CA 95134
US

00-18-7C (hex) INTERCROSS, LLC
00187C (base 16) INTERCROSS, LLC
Novoselov str., 58/7
Ryazan 390049
RU

00-18-70 (hex) E28 Shanghai Limited
001870 (base 16) E28 Shanghai Limited
2/F Eastern Tower
Shanghai 200001
CN

00-18-72 (hex) Expertise Engineering
001872 (base 16) Expertise Engineering
4186 Sorrento Valley Blvd Suite -J
San Diego CA 92121
US

00-18-74 (hex) Cisco Systems, Inc
001874 (base
16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-18-5B (hex) Network Chemistry, Inc
00185B (base 16) Network Chemistry, Inc
1700 Seaport Blvd
Redwood City CA 94063
US

00-18-61 (hex) Ooma, Inc.
001861 (base 16) Ooma, Inc.
555 University Avenue
Palo Alto CA 94301
US

00-18-55 (hex) Aeromaritime Systembau GmbH
001855 (base 16) Aeromaritime Systembau GmbH

Ludwig-Erhard-Str. 16
D-85375 Neufahrn
DE

00-18-51 (hex) SWsoft
001851 (base 16) SWsoft
13755 Sunrise Valley Drive, Suite 600
Herndon VA 20171
US

00-18-56 (hex) EyeFi, Inc
001856 (base 16) EyeFi, Inc
149 Commonwealth Drive
Menlo Park CA 94025
US

00-18-4E (hex) Lianhe Technologies, Inc.
00184E (base 16) Lianhe Technologies, Inc.
3F, #119, DaHu ShanZhuang St.
Neihu District Taipei City 114
TW

00-18-4C (hex) Bogen Communications
00184C (base 16) Bogen Communications
50
Spring St.
Ramsey NJ 07446
US

00-18-3B (hex) CENITS Co., Ltd.
00183B (base 16) CENITS Co., Ltd.
3F, Yangjae Bldg., 264-3
Seoul 137-130
KR

00-18-3C (hex) Encore Software Limited
00183C (base 16) Encore Software Limited
6F Leo Complex
Bangalore Karnataka 560025
IN

00-18-41 (hex) High Tech Computer Corp
001841 (base 16) High Tech Computer Corp
23 Hsin Hua Rd.
Taoyuan 330
TW

00-18-26 (hex) Cale Access AB

001826 (base 16) Cale Access AB
Box 1031
Kista SE-164 21
SE

00-18-2D (hex) Artec Design
00182D (base 16) Artec Design
Teaduspargi 6/1
Tallinn 12618
EE

00-18-2A (hex) Taiwan Video & Monitor
00182A (base 16) Taiwan Video & Monitor
3F, 141 Jen Ai Rd Sec. 3
Taipei City 106
TW

00-18-69 (hex) KINGJIM
001869 (base 16) KINGJIM
No.10-18,2-Chome
Chiyoda-ku Tokyo 101-0031
JP

00-18-AA (hex) Protec Fire Detection plc
0018AA (base 16) Protec Fire Detection plc
Protec House
Nelson Lancashire BB9 6LQ
GB

00-18-A1 (hex) Tiqit Computers, Inc.
0018A1 (base 16) Tiqit Computers, Inc.
2215 Old Page Mill Rd
Palo Alto CA 94304
US

00-18-96 (hex) Great Well Electronic LTD
001896 (base 16) Great Well Electronic LTD
The Third Industrial Area
Shenzhen Guangdong 518110
US

00-18-90 (hex) RadioCOM, s.r.o.
001890 (base 16) RadioCOM, s.r.o.
Misikova 22
Bratislava 811 06
SK

00-18-19 (hex) Cisco Systems, Inc
001819 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-18-10 (hex) IPTrade S.A.
001810 (base 16) IPTrade S.A.
Parc Scientifique
Sart-Tilman Wallonie 4031
BE

00-18-04 (hex) E-TEK DIGITAL TECHNOLOGY LIMITED
001804 (base 16) E-TEK DIGITAL TECHNOLOGY LIMITED
UNIT1520,15/F.,TOWER 2,GRAND CENTURY PLACE,193 PRINCE EDWARD ROAD WEST,KOWLOON,

HK

00-18-09 (hex) CRESYN
001809 (base 16) CRESYN
8-22,Jamwon-dong
Seoul Seocho-Gu #137-902
KR

00-18-00 (hex) UNIGRAND LTD
001800 (base 16) UNIGRAND LTD
7F-2, No.45, Jingde St., Jhonghe City,
235
TW

00-18-12 (hex) Beijing Xinwei Telecom Technology Co., Ltd.
001812 (base 16) Beijing Xinwei Telecom Technology Co., Ltd.
Xinwei Bldg., No. 7 Zhongguancun Software Park,
Haidian District Beijing 100094
CN

00-18-0B (hex) Brilliant Telecommunications
00180B (base 16) Brilliant Telecommunications
307 Orchard City Dr.
Campbell CA 95008
US

00-17-FC (hex) Suprema Inc.
0017FC (base 16) Suprema Inc.
16F Parkview Office Tower,
Seongnam Gyeonggi 463-863
KR

00-17-FD (hex) Amulet Hotkey
0017FD (base 16) Amulet Hotkey
Cavalier Road
Heathfield Devon TQ12 6TQ
GB

00-17-FB (hex) FA
0017FB (base 16) FA
628-7, Dungchon-Dong
Seoul Kangseo-Ku 157-838
KR

00-17-A2
(hex) Camrivox Ltd.
0017A2 (base 16) Camrivox Ltd.
The Jeffreys Building
Cambridge Cambridgeshire CB4 0WS
GB

00-17-9D (hex) Kelman Limited
00179D (base 16) Kelman Limited
Rathdown Close
Lisburn Co. Antrim BT28 2RB
GB

00-17-90 (hex) HYUNDAI DIGITECH Co, Ltd.
001790 (base 16) HYUNDAI DIGITECH Co, Ltd.
13th Fl, Choung-Jin Bldg, 53-5
Seoul 140-719
KR

00-17-91 (hex) LinTech GmbH
001791 (base 16) LinTech GmbH
Friedrich-Engels-Str. 35
Berlin 13156
DE

00-17-CF (hex) iMCA-GmbH
0017CF (base 16) iMCA-GmbH
Dorfstrasse 28b
Itzehoe Schleswig-Holstein 25524
DE

00-17-D8 (hex) Magnum Semiconductor, Inc.
0017D8 (base 16) Magnum Semiconductor, Inc.
591 Yosemite Drive
Milpitas CA 95035

US

00-17-DA (hex) Spans Logic
0017DA (base 16) Spans Logic
201 San Antonio Circle
Mountain View CA 94040
US

00-17-95 (hex) Cisco Systems, Inc
001795
(base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-17-99 (hex) SmarTire Systems Inc.
001799 (base 16) SmarTire Systems Inc.
Suite 150
Richmond BC V6V 2J1
CA

00-17-7F (hex) Worldsmart Retech
00177F (base 16) Worldsmart Retech
23 Hi-Tech Court
Eight Mile Plains QLD 4113
AU

00-17-B9 (hex) Gambro Lundia AB
0017B9 (base 16) Gambro Lundia AB
BOX 10101
LUND SkÃƒÂ¥ne 22010
SE

00-17-B3 (hex) Aftek Infosys Limited
0017B3 (base 16) Aftek Infosys Limited
Pawan Complex
Pune Maharashtra 411 038
IN

00-17-1E (hex) Theo Benning GmbH & Co. KG
00171E (base 16) Theo Benning GmbH & Co. KG
Muensterstraße 135-137
Bocholt NRW 46397
DE

00-17-12 (hex) ISCO International
001712 (base 16) ISCO International
1001 Cambridge Drive

Elk Grove Village IL 60007
US

00-17-0D (hex) Dust Networks Inc.
00170D (base 16) Dust Networks
Inc.
30695 Huntwood Ave.
Hayward Ca. 94544
US

00-17-0C (hex) Twig Com Ltd.
00170C (base 16) Twig Com Ltd.
Meriniitynkatu 11
Salo 2400
FI

00-17-0B (hex) Contela, Inc.
00170B (base 16) Contela, Inc.
6-8 Soonae-dong, Bundang-gu,
Sungnam Kyunggi-do 463-825
KR

00-17-5F (hex) XENOLINK Communications Co., Ltd.
00175F (base 16) XENOLINK Communications Co., Ltd.
2nd Fl., Jungyou B/D 797-22
Seoul 135-930
KR

00-17-5C (hex) SHARP CORPORATION
00175C (base 16) SHARP CORPORATION
1, Takumi-Cho,
Sakai city Osaka Prefecture 590-8522
JP

00-17-59 (hex) Cisco Systems, Inc
001759 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-17-54 (hex) Arkino HiTOP Corporation Limited
001754 (base 16) Arkino HiTOP Corporation Limited
5F., No.437, Tao Ying Rd
Taoyuan City Taoyuan County 33068,
TW

00-17-52 (hex) DAGS, Inc
001752 (base 16) DAGS,

Inc
C-510, Woolim Lion's Valley, 371-28, Gasan Dong, Geumcheon Ku
Seoul 153-786
KR

00-17-56 (hex) Vinci Labs Oy
001756 (base 16) Vinci Labs Oy
Finlaysoninkuja 21 A
Tampere Länsi-Suomi 33210
FI

00-17-86 (hex) wisembed
001786 (base 16) wisembed
808, hansin IT tower, 235 guro3-dong, guro-gu
Seoul 152-768
KR

00-17-82 (hex) LoBenn Inc.
001782 (base 16) LoBenn Inc.
150 Katimavik Road
Ottawa Ontario K2L 2N2
CA

00-17-6B (hex) Kiyon, Inc.
00176B (base 16) Kiyon, Inc.
9381 Judicial Drive
San Diego CA 92121
US

00-17-78 (hex) Central Music Co.
001778 (base 16) Central Music Co.
0711-0712 Tower D, SOHO New Town
Beijing 100022
CN

00-17-74 (hex) Elesta GmbH
001774 (base 16) Elesta GmbH
Gottlieb Daimler Strasse 1
Konstanz 78467
DE

00-17-77 (hex) Obsidian Research Corporation
001777 (base 16) Obsidian Research Corporation
120 -
4445 Calgary Trail NW
Edmonton Alberta T6H 5R7
CA

00-17-6A (hex) Avago Technologies
00176A (base 16) Avago Technologies
350 West Trimble Rd
San Jose CA 95131
US

00-17-41 (hex) DEFIDEV
001741 (base 16) DEFIDEV
20 rue Raymond Marcheron
Vanves 92170
FR

00-17-38 (hex) International Business Machines
001738 (base 16) International Business Machines
1 Azrieli Center
Tel Aviv 67021
IL

00-17-2D (hex) Axcen Photonics Corporation
00172D (base 16) Axcen Photonics Corporation
6F, No. 119, Baujung Rd.,
Shindian City, Taipei 231
TW

00-17-24 (hex) Studer Professional Audio GmbH
001724 (base 16) Studer Professional Audio GmbH
Althardstrasse 30
Regensdorf Zürich CH-8105
CH

00-16-A1 (hex) 3Leaf Networks
0016A1 (base 16) 3Leaf Networks
3255-1 Scott Blvd
Santa Clara CA 95054
US

00-16-A4 (hex) Ezurio Ltd
0016A4 (base 16) Ezurio Ltd
Unit 2
London
NW9 5HD
GB

00-16-99 (hex) Tonic DVB Marketing Ltd
001699 (base 16) Tonic DVB Marketing Ltd
Unit B, 10/F, Summit Building,
Hung Hom Kowloon
HK

00-16-9B (hex) Alstom Transport
00169B (base 16) Alstom Transport
11, 13 avenue de Bel Air
Villeurbanne Rhone 69100
FR

00-16-90 (hex) J-TEK INCORPORATION
001690 (base 16) J-TEK INCORPORATION
2F-1, No. 83, Sec. 2, GongDaoWu Rd.,
Hsinchu City 30070
TW

00-16-98 (hex) T&A Mobile Phones
001698 (base 16) T&A Mobile Phones
4/F, South Building,No.2966, Jinke Road
Pudong Shanghai 201203
CN

00-16-96 (hex) QDI Technology (H.K.) Limited
001696 (base 16) QDI Technology (H.K.) Limited
16/F, Standard Chartered Bank Building 4-4A
Hong Kong
CN

00-17-0F (hex) Cisco Systems, Inc
00170F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-17-04 (hex) Shinco Electronics Group Co.,Ltd
001704
(base 16) Shinco Electronics Group Co.,Ltd
No.5 Waihuan Road
Changzhou Jiangsu 213022
CN

00-17-07 (hex) InGrid, Inc
001707 (base 16) InGrid, Inc
920 Cassatt Rd
Berwyn Pa 19312
US

00-16-D8 (hex) Senea AB
0016D8 (base 16) Senea AB
Företagsallen 12
Åkersberga 18484

SE

00-16-D6 (hex) TDA Tech Pty Ltd
0016D6 (base 16) TDA Tech Pty Ltd
210 / 54 Currie Street
Adelaide South Australia 5000
AU

00-16-D5 (hex) Synccom Co., Ltd
0016D5 (base 16) Synccom Co., Ltd
#306 Myungi e-space 218-20
Anyang-si Kyungki-do 430-817
KR

00-16-C9 (hex) NAT Seattle, Inc.
0016C9 (base 16) NAT Seattle, Inc.
22125 17th Ave SE
Bothell WA 98021
US

00-16-A5 (hex) Tandberg Storage ASA
0016A5 (base 16) Tandberg Storage ASA
Postboks 191

NO

00-16-C6 (hex) North Atlantic Industries
0016C6 (base 16) North Atlantic Industries
170 Wilbur Place
Bohemia NY
11716
US

00-16-D2 (hex) Caspian
0016D2 (base 16) Caspian
170 Baytech Drive
San Jose CA 95134
US

00-16-F7 (hex) L-3 Communications, Aviation Recorders
0016F7 (base 16) L-3 Communications, Aviation Recorders
100 Cattlemen Rd.
Sarasota FL 34232
US

00-17-02 (hex) Osung Midicom Co., Ltd
001702 (base 16) Osung Midicom Co., Ltd
231-18, Dorim2-dong,

Seoul, Youngdeungpo-gu 150-832
KR

00-16-BE (hex) INFRANET, Inc.
0016BE (base 16) INFRANET, Inc.
8th Floor, Cowell B/D, 66-1
Seoul 137-040
KR

00-16-AB (hex) Dansensor A/S
0016AB (base 16) Dansensor A/S
Roennedevej 18
Ringsted DK-4100
DK

00-16-66 (hex) Quantier Communication Inc.
001666 (base 16) Quantier Communication Inc.
1F, No. 36, Industry E. Rd IV,
Hsin-Chu 300
TW

00-16-62 (hex) Liyuh Technology Ltd.
001662 (base 16) Liyuh Technology Ltd.
4F, No.19, Ln.221, Ganqian Rd., Neihu District
Taipei
114
TW

00-16-61 (hex) Novatium Solutions (P) Ltd
001661 (base 16) Novatium Solutions (P) Ltd
3rd Floor, Temple Towers, #672
Chennai Tamil Nadu 600035
IN

00-16-64 (hex) Prod-El SpA
001664 (base 16) Prod-El SpA
Via Palmanova 185
Milano MI 20132
IT

00-16-5E (hex) Precision I/O
00165E (base 16) Precision I/O
4005 Miranda Ave., Suite 210
Palo Alto CA 94304-1232
US

00-16-58 (hex) Fusiontech Technologies Inc.
001658 (base 16) Fusiontech Technologies Inc.

6F, No.78, Cheng Kung Rd., Sec. 1,
Taipei 115
TW

00-16-53 (hex) LEGO System A/S IE Electronics Division
001653 (base 16) LEGO System A/S IE Electronics Division
Aastvej 1
Billund Kommune 7190
DK

00-16-52 (hex) Hoatech Technologies, Inc.
001652 (base 16) Hoatech Technologies, Inc.
1F., No.224, Guosheng St.
Zhubei HsinChu Hsien 30244
TW

00-16-50 (hex) Kratos EPD
001650 (base 16)
Kratos EPD
Herley General Microwave Israel.
KIBBUTZ EYAL 45840
IL

00-16-42 (hex) Pangolin
001642 (base 16) Pangolin
9501 Satellite Boulevard, Suite 109
Orlando FL 32837
US

00-16-30 (hex) Vativ Technologies
001630 (base 16) Vativ Technologies
9339 Genesee Avenue
San Diego CA 92121
US

00-16-2F (hex) Geutebrück GmbH
00162F (base 16) Geutebrück GmbH
Im Nassen 7-9
Windhagen 53578
DE

00-16-2B (hex) Togami Electric Mfg.co.,Ltd.
00162B (base 16) Togami Electric Mfg.co.,Ltd.
1-1 Ohtakara-Kitamachi
Saga.PRF 840-0802
JP

00-16-81 (hex) Vector Informatik GmbH

001681 (base 16) Vector Informatik GmbH
Ingersheimer Str. 24
Stuttgart Baden-Württemberg 70499
DE

00-BA-C0 (hex) Biometric Access Company
00BAC0 (base 16) Biometric Access Company
2555 North IH 35
Round Rock Texas 78664
US

00-16-3B (hex) Communications & Power Industries
00163B
(base 16) Communications & Power Industries
Suite , 60 Decibel Road
State College PA 16801
US

00-16-37 (hex) CITEL SpA
001637 (base 16) CITEL SpA
Via L. G. Columella, 36
Milan MI 20128
IT

00-16-85 (hex) Elisa Oyj
001685 (base 16) Elisa Oyj
Elektroniikkatie 4
90570 Oulu
FI

00-16-80 (hex) Bally Gaming + Systems
001680 (base 16) Bally Gaming + Systems
950 Sandhill Road
Reno NV 89521
US

00-16-24 (hex) Teneros, Inc.
001624 (base 16) Teneros, Inc.
215 Castro St.
Mt. View CA 94041
US

00-16-1C (hex) e:cue
00161C (base 16) e:cue
Friedrich-List-Strasse 23
Paderborn 33100
DE

00-16-08 (hex) Sequans Communications
001608 (base 16) Sequans Communications
19 Le Parvis de la Défense
PARIS LA DEFENSE CEDEX 92073
FR

00-15-73 (hex) NewSoft Technology Corporation
001573 (base 16) NewSoft Technology Corporation
3F, 19-3, SanChong RD, NanKang,
Taipei
115
US

00-15-75 (hex) Nevis Networks Inc.
001575 (base 16) Nevis Networks Inc.
3945 Freedom Circle
Santa Clara CA 95054
US

00-15-6C (hex) SANE SYSTEM CO., LTD
00156C (base 16) SANE SYSTEM CO., LTD
0-2 Heungan-daero 439 beon-gil Dongan-gu
Anyang-si Kyunggi-do 431-804
KR

00-15-6A (hex) DG2L Technologies Pvt. Ltd.
00156A (base 16) DG2L Technologies Pvt. Ltd.
AML Center 1, Gnd. Floor, 8 Mahal Indl. Est.
Mumbai Maharashtra 400093
IN

00-15-6F (hex) Xiranet Communications GmbH
00156F (base 16) Xiranet Communications GmbH
Bertolt-Brecht-Allee 24
Dresden Saxony 01309
US

00-15-72 (hex) Red-Lemon
001572 (base 16) Red-Lemon
Unit 4, 9/F, Paramount Building
Chai Wan
HK

00-15-B8 (hex) Tahoe
0015B8 (base 16) Tahoe
ul. Uniwersytecka 1
Wroclaw 50951
PL

00-15-B6 (hex) ShinMaywa Industries, Ltd.
0015B6 (base 16) ShinMaywa Industries,
Ltd.
1-1 Shinmeiwa-cho
Takarazuka Hyogo 665-8550
JP

00-15-B0 (hex) AUTOTELENET CO.,LTD
0015B0 (base 16) AUTOTELENET CO.,LTD
2F, 898-24, Hogye2-dong, Dongan-gu
Anyang-City Kyunggi-do 431-836
KR

00-15-B1 (hex) Ambient Corporation
0015B1 (base 16) Ambient Corporation
79 Chapel St.
Newton MA 02458
US

00-15-84 (hex) Schenck Process GmbH
001584 (base 16) Schenck Process GmbH
Pallaswiesenstraße 100
Darmstadt Hessen 64293
DE

00-15-81 (hex) MAKUS Inc.
001581 (base 16) MAKUS Inc.
4F Daedo Bldg. 748-14 Yeoksam-dong, Kangnam-gu
Seoul 135-080
US

00-15-7A (hex) Telefin S.p.A.
00157A (base 16) Telefin S.p.A.
Via Albere 87/A
Verona VR 37138
IT

00-15-FA (hex) Cisco Systems, Inc
0015FA (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-15-FC (hex) Littelfuse Startco
0015FC (base 16) Littelfuse Startco
3714 Kinnear Place
Saskatoon

SK S7P 0A6
CA

00-15-F7 (hex) Wintecronics Ltd.
0015F7 (base 16) Wintecronics Ltd.
No. 716, 11F-3, Jung Jeng Rd.
Chung Ho City Taipei Hsien 235
TW

00-15-F8 (hex) Kingtronics Industrial Co. Ltd.
0015F8 (base 16) Kingtronics Industrial Co. Ltd.
Penthouse, Century Centre,
Kowloon
HK

00-15-A7 (hex) Robatech AG
0015A7 (base 16) Robatech AG
Pilatusring 10
Muri AG 5630
CH

00-15-9F (hex) Terascala, Inc.
00159F (base 16) Terascala, Inc.
145 Bodwell Street
Avon MA 02322
US

00-15-9E (hex) Mad Catz Interactive Inc
00159E (base 16) Mad Catz Interactive Inc
Units 3+4 West Point Row
Bristol South Gloucestershire BS32 4QG
US

00-15-A1 (hex) ECA-SINTERS
0015A1 (base 16) ECA-SINTERS
5, rue Paul Mesplé
TOULOUSE Cedex 01 31106
FR

00-15-D7 (hex) Reti Corporation
0015D7 (base 16) Reti Corporation
6F,No 13, Lane 120, Sec 1, Neihu Rd.,
Taipei
City 114
TW

00-15-CB (hex) Surf Communication Solutions Ltd.
0015CB (base 16) Surf Communication Solutions Ltd.

P.O. Box 343
Yokneam 20164
IL

00-15-CC (hex) UQUEST, LTD.
0015CC (base 16) UQUEST, LTD.
Sannomiya Intes Bldg. 8F
KOBE HYOGO 651-0086
JP

00-15-E6 (hex) MOBILE TECHNIKA Inc.
0015E6 (base 16) MOBILE TECHNIKA Inc.
Sotobori Sky Bld. 5th Floor
Shinjuku-ku Tokyo 162-0845
JP

00-15-DB (hex) Canesta Inc.
0015DB (base 16) Canesta Inc.
965 West Maude Avenue
Sunnyvale California 94085
US

00-15-C6 (hex) Cisco Systems, Inc
0015C6 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-15-C3 (hex) Ruf Telematik AG
0015C3 (base 16) Ruf Telematik AG
Ruetistrasse 13
Schlieren ZH 8952
CH

00-15-93 (hex) U4EA Technologies Inc.
001593 (base 16) U4EA Technologies Inc.
48860 Milmont Drive
Fremont CA 94538
US

00-15-8D
(hex) Jennic Ltd
00158D (base 16) Jennic Ltd
Furnival Street
Sheffield Yorkshire S1 4QT
US

00-15-29 (hex) N3 Corporation

001529 (base 16) N3 Corporation
#402 GwangMyeong Techno Town
GyeongGi-Do 423-031
KR

00-15-2D (hex) TenX Networks, LLC
00152D (base 16) TenX Networks, LLC
4855 Wiley Post Way
Salt Lake City UT 84116
US

00-15-23 (hex) Meteor Communications Corporation
001523 (base 16) Meteor Communications Corporation
22614 66th Avenue South
Kent WA 98032
US

00-15-24 (hex) Numatics, Inc.
001524 (base 16) Numatics, Inc.
46280 Dylan Dr.
Novi Michigan 48377
US

00-15-1B (hex) Isilon Systems Inc.
00151B (base 16) Isilon Systems Inc.
3101 Western Avenue
Seattle WA 98121
US

00-14-F9 (hex) Vantage Controls
0014F9 (base 16) Vantage Controls
1061 South 800 East
Orem UT 84097
US

00-15-4E (hex) IEC
00154E (base 16) IEC
3,
rue de Varembé
CH - 1211 GENEVA 20
DE

00-15-50 (hex) Nits Technology Inc
001550 (base 16) Nits Technology Inc
2FL. No. 8 Alley 16, Lane 235, Bauchiau Rd.,
Shindian City Taipei Hsien 231
TW

00-15-46 (hex) ITG Worldwide Sdn Bhd
001546 (base 16) ITG Worldwide Sdn Bhd
2, Jalan AstakaU8/83
Shah Alam Selangor Darul Ehsan 40150
MY

00-15-3E (hex) Q-Matic Sweden AB
00153E (base 16) Q-Matic Sweden AB
Neongatan 8
Molndal 431 53
SE

00-15-67 (hex) RADWIN Inc.
001567 (base 16) RADWIN Inc.
900 Corporate Drive
Mahwah NJ 07430
US

00-15-5D (hex) Microsoft Corporation
00155D (base 16) Microsoft Corporation
One Microsoft Way
Redmond WA 98052-8300
US

00-15-62 (hex) Cisco Systems, Inc
001562 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-15-5B (hex) Sampo Corporation
00155B (base 16) Sampo Corporation
216 Chung Shan
Road,
Taipei Hsien 220
TW

00-15-53 (hex) Cytyc Corporation
001553 (base 16) Cytyc Corporation
250 Campus Dive
Marlborough MA 01752
US

00-15-51 (hex) RadioPulse Inc.
001551 (base 16) RadioPulse Inc.
2nd fl. Hans B/D, 111-55
Seoul 134-883
KR

00-15-52 (hex) Wi-Gear Inc.
001552 (base 16) Wi-Gear Inc.
340 Church Street
San Francisco CA 94114
US

00-15-10 (hex) Techsphere Co., Ltd
001510 (base 16) Techsphere Co., Ltd
4F, Wonil Bldg., 980-54, Bangbae-dong, SeoCho-gu
Seoul 137-060
KR

00-15-13 (hex) EFS sas
001513 (base 16) EFS sas
BP 34
MILLERY F-69390
US

00-15-42 (hex) MICROHARD S.R.L.
001542 (base 16) MICROHARD S.R.L.
Via Primo Maggio 36
San Vittore Olona Milano 20028
IT

00-15-03 (hex) PROFIcomms s.r.o.
001503 (base 16) PROFIcomms s.r.o.
Turgenevova 5
Brno EU/Europe 618 00
CZ

00-15-09 (hex) Plus Technology Co., Ltd
001509
(base 16) Plus Technology Co., Ltd
Office #205, Gayang Techno-town,
Seoul 157-810
KR

00-14-ED (hex) Airak, Inc.
0014ED (base 16) Airak, Inc.
21641 Beaumeade Circle
Ashburn Virginia 20147
US

00-14-E1 (hex) Data Display AG
0014E1 (base 16) Data Display AG
Industriestraße 1
Germering Bayern 82110

DE

00-14-E3 (hex) mm-lab GmbH
0014E3 (base 16) mm-lab GmbH
Stammheimer Strasse 10
Kornwestheim
DE

00-14-D9 (hex) IP Fabrics, Inc.
0014D9 (base 16) IP Fabrics, Inc.
3720 SW 141st Avenue
Beaverton Oregon 97006
US

00-14-D6 (hex) Jeongmin Electronics Co.,Ltd.
0014D6 (base 16) Jeongmin Electronics Co.,Ltd.
#710, Byuksan Digital Valley 2,
Seoul 153 783
KR

00-14-8B (hex) Globo Electronic GmbH & Co. KG
00148B (base 16) Globo Electronic GmbH & Co. KG
Industriestrasse 4a
Niederlauer Bayern 97618
DE

00-14-90 (hex) ASP Corporation
001490
(base 16) ASP Corporation
465 Industrial Park Road
Hartwell GA 30643
US

00-14-79 (hex) NEC Magnus Communications,Ltd.
001479 (base 16) NEC Magnus Communications,Ltd.
22-23, Kaigan 3-chome
Minato-ku Tokyo 108-0022
JP

00-14-7B (hex) Iteris, Inc.
00147B (base 16) Iteris, Inc.
1515 S. Manchester Ave.
Anaheim CA 92802
US

00-14-7A (hex) Eubus GmbH
00147A (base 16) Eubus GmbH
Gollierstraße 70 Aufgang E 4.Stock

Munich Bavaria 80339
DE

00-14-6D (hex) RF Technologies
00146D (base 16) RF Technologies
3125 N 126th Street
Brookfield WI 53005
US

00-14-F0 (hex) Business Security OL AB
0014F0 (base 16) Business Security OL AB
Box 110 65
Lund 220 11
SE

00-14-F2 (hex) Cisco Systems, Inc
0014F2 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-14-E7 (hex) Stolinx,. Inc
0014E7 (base 16) Stolinx,. Inc
3F Ohchang
Bldg., 61 Yangjae-dong
Seoul 137-889
KR

00-14-E9 (hex) Nortech International
0014E9 (base 16) Nortech International
32A Wiganthorpe Road
Pietermartizburg KwaZulu Natal 3201
ZA

00-14-D0 (hex) BTI Systems Inc.
0014D0 (base 16) BTI Systems Inc.
50 Northside Road
Ottawa Ontario K2H 5Z6
CA

00-14-CE (hex) NF CORPORATION
0014CE (base 16) NF CORPORATION
6-3-20, Tsunashima-higashi
Yokohama Kanagawa 223-8508
JP

00-14-BB (hex) Open Interface North America
0014BB (base 16) Open Interface North America

506 2nd Avenue, Suite 420
Seattle WA 98104
US

00-14-88 (hex) Akorri
001488 (base 16) Akorri
11 Falcon Ridge Dr
Hopkinton MA 01748
US

00-14-84 (hex) Cermate Technologies Inc.
001484 (base 16) Cermate Technologies Inc.
7F-1, No 168 Lien-Chen Rd.
Chung-Ho Dist New Taipei City
TW

00-14-AC (hex) Bountiful WiFi
0014AC (base 16) Bountiful WiFi
707
West 700 South
Woods Cross Utah 84087
US

00-14-A8 (hex) Cisco Systems, Inc
0014A8 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-14-A0 (hex) Accsense, Inc.
0014A0 (base 16) Accsense, Inc.
460 Ward Drive
Santa Barbara California 93111
US

00-13-FE (hex) GRANDTEC ELECTRONIC CORP.
0013FE (base 16) GRANDTEC ELECTRONIC CORP.
8F,NO.268,Lian Cheng Rd.,Chung Ho City,
Taipei 235
TW

00-13-F8 (hex) Dex Security Solutions
0013F8 (base 16) Dex Security Solutions
10 Junction Road Parktown
Johannesburg Guteng 2000
ZA

00-13-F9 (hex) Cavera Systems

0013F9 (base 16) Cavera Systems
2355 Oakland Rd, Suite#33
San Jose CA 95131
US

00-13-F2 (hex) Klas Ltd
0013F2 (base 16) Klas Ltd
Bracetown Business Park
Clonee Co Meath
IE

00-13-F7 (hex) SMC Networks, Inc.
0013F7 (base 16) SMC Networks, Inc.
38 Tesla
Irvine CA
92618
US

00-14-5F (hex) ADITEC CO. LTD
00145F (base 16) ADITEC CO. LTD
4F Hyowon B/D, 99-5,
Seoul 138-805
KR

00-14-59 (hex) Moram Co., Ltd.
001459 (base 16) Moram Co., Ltd.
3F, Manwol Bldg., 1022-4
Suwon-shi Gyounggi-do 443-813
KR

00-13-ED (hex) PSIA
0013ED (base 16) PSIA
517-13 Induspis 5th
SungNam KyungGi
KR

00-13-E6 (hex) Technolution
0013E6 (base 16) Technolution
Zuidelijkhalfrond 1
GOUDA ZH 2801 DD
NL

00-14-53 (hex) ADVANTECH TECHNOLOGIES CO.,LTD
001453 (base 16) ADVANTECH TECHNOLOGIES CO.,LTD
#1202 ACE TECHNO TOWER, 684-1
Seoul 157-721
KR

00-14-54 (hex) Symwave
001454 (base 16) Symwave
10251 Vista Sorrento Parkway
San Diego CA 92121
US

00-14-48 (hex) Inventec Multimedia & Telecom Corporation
001448 (base 16) Inventec Multimedia & Telecom Corporation
5F,NO.396,Sec.1 Nei-Hu Road
Taipei 114
TW

00-14-1C (hex) Cisco
Systems, Inc
00141C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-14-1A (hex) DEICY CORPORATION
00141A (base 16) DEICY CORPORATION
3-3-6,Sakae-cho,Hamura-shi,
Tokyo 205-0002
JP

00-14-4B (hex) Hifn, Inc.
00144B (base 16) Hifn, Inc.
750 University Ave
Los Gatos CA 95032
US

00-14-3C (hex) Rheinmetall Canada Inc.
00143C (base 16) Rheinmetall Canada Inc.
225 boul du seminaire sud
St-Jean-sur-Richelieu Quebec J3B 8E9
CA

00-14-70 (hex) Prokom Software SA
001470 (base 16) Prokom Software SA
Al. Jerozolimskie 65/79
Warszawa Mazowieckie 00-697
PL

00-14-67 (hex) ArrowSpan Inc.
001467 (base 16) ArrowSpan Inc.
4699 Old Ironsides Dr. Suite 100
Santa Clara CA 95054
US

00-14-16 (hex) Scosche Industries, Inc.
001416 (base 16) Scosche Industries, Inc.
PO Box 2901
Oxnard CA 93034
US

00-14-0C (hex) GKB CCTV CO., LTD.
00140C
(base 16) GKB CCTV CO., LTD.
7F, No. 1, Lane 641,
Ta Ya Hsiang, TAICHUNG 428
TW

00-14-35 (hex) CityCom Corp.
001435 (base 16) CityCom Corp.
3F., No.532, Sec. 2,
Jhonghe City Taipei Hsien 23557
TW

00-14-26 (hex) NL Technology
001426 (base 16) NL Technology
800 Turnpike Street
North Andover MA 01845
US

00-13-CD (hex) MTI co. LTD
0013CD (base 16) MTI co. LTD
166-10 Karak-dong
Songpa-ku Seoul 138-810
KR

00-13-D3 (hex) MICRO-STAR INTERNATIONAL CO., LTD.
0013D3 (base 16) MICRO-STAR INTERNATIONAL CO., LTD.
NO. 69, LI-DE ST.
JUNG-HE CITY TAIPEI HSIEN 235
TW

00-13-CA (hex) ATX
0013CA (base 16) ATX
8-1602 Tricont Avenue
Whitby ON L1N 7C3
CA

00-13-C5 (hex) LIGHTRON FIBER-OPTIC DEVICES INC.
0013C5 (base 16) LIGHTRON FIBER-OPTIC DEVICES INC.
51-1 Moonpyung-Dong, Taeduck-Gu
Taejon 306-220

KR

00-13-C4 (hex) Cisco Systems, Inc
0013C4
(base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-13-4C (hex) YDT Technology International
00134C (base 16) YDT Technology International
2F., No.218, Rueiguang Rd.,
Taipei, 114
TW

00-13-3C (hex) QUINTRON SYSTEMS INC.
00133C (base 16) QUINTRON SYSTEMS INC.
2105 SO. BLOSSER ROAD
SANTA MARIA CALIFORNIA 93458
US

00-13-9A (hex) K-ubique ID Corp.
00139A (base 16) K-ubique ID Corp.
Yamasan Bldg.8F,
Chuo-ku Tokyo 103-0023
JP

00-13-9E (hex) Ciara Technologies Inc.
00139E (base 16) Ciara Technologies Inc.
9300 Trans Canada Highway
Saint-Laurent Quebec H4S 1K5
CA

00-13-9D (hex) MaxLinear Hispania S.L.U.
00139D (base 16) MaxLinear Hispania S.L.U.
Ronda Narcis Monturiol
Estarriol, 11D Paterna 46980
ES

00-13-B5 (hex) Wavesat
0013B5 (base 16) Wavesat
1375, Trans-Canada Highway
Dorval Quebec H9P 2W8
CA

00-13-AF (hex) NUMA
Technology,Inc.
0013AF (base 16) NUMA Technology,Inc.

4F,No778,Sec 4,Patch Rd.
Taipei 115
TW

00-13-B0 (hex) Jablotron
0013B0 (base 16) Jablotron
Pod Skalkou 33
Jablonec nad Nisou 46601
CZ

00-13-B1 (hex) Intelligent Control Systems (Asia) Pte Ltd
0013B1 (base 16) Intelligent Control Systems (Asia) Pte Ltd
70 Ubi Crescent #01-12
408570
SG

00-13-DF (hex) Ryvor Corp.
0013DF (base 16) Ryvor Corp.
15145 Red Hill Ave.
Tustin CA 92780
US

00-13-D5 (hex) RuggedCom
0013D5 (base 16) RuggedCom
300 Applewood Crescent (Unit 1)
Concord, Ontario L4K 5C7
CA

00-13-D6 (hex) TII NETWORK TECHNOLOGIES, INC.
0013D6 (base 16) TII NETWORK TECHNOLOGIES, INC.
1385 AKRON STREET
COPIAGUE NY 11726
US

00-13-DB (hex) SHOEI Electric Co.,Ltd
0013DB (base 16) SHOEI Electric Co.,Ltd
1-29-2,Wakabayashi
Setagaya-ku Tokyo 154-0023
JP

00-13-7F (hex) Cisco Systems,
Inc
00137F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-13-82 (hex) Cetacea Networks Corporation

001382 (base 16) Cetacea Networks Corporation
3708 West 36th Avenue
Vancouver British Columbia V6N 2S4
CA

00-13-75 (hex) American Security Products Co.
001375 (base 16) American Security Products Co.
11925 Pacific ave.
Fontana CA 92335
US

00-13-C2 (hex) WACOM Co.,Ltd
0013C2 (base 16) WACOM Co.,Ltd
2-510-1 Toyonodai Otone-machi
Kitasaitama-gun Saitama 349-1148
JP

00-13-BF (hex) Media System Planning Corp.
0013BF (base 16) Media System Planning Corp.
4F Velco-Kuromon Bldg.
Taito-ku, Tokyo 110-0005
JP

00-13-BB (hex) Smartvue Corporation
0013BB (base 16) Smartvue Corporation
102 Woodmont Boulevard
Nashville TN 37205
US

00-13-58 (hex) Realm Systems, Inc.
001358 (base 16) Realm Systems, Inc.
9350 South 535 East
Sandy
Utah 84070
US

00-13-59 (hex) ProTelevision Technologies A/S
001359 (base 16) ProTelevision Technologies A/S
Marielundvej 16,2
Herlev Copenhagen 2730
DK

00-13-50 (hex) Silver Spring Networks, Inc
001350 (base 16) Silver Spring Networks, Inc
575 Broadway Street
Redwood City CA 94063
US

00-13-8D (hex) Kinghold
00138D (base 16) Kinghold
11F, No. 965, Jungjeng Rd.
Junghe Taipei 235
TW

00-13-90 (hex) Termtek Computer Co., Ltd
001390 (base 16) Termtek Computer Co., Ltd
2F, No. 100, Li De St.,
Chung Ho City Taipei Hsien 235
TW

00-13-2F (hex) Interactek
00132F (base 16) Interactek
Sigmal 2 BLDG #C-319, 18 Kumi-dong
Seongnam Kyung-gi 463-741
KR

00-13-30 (hex) EURO PROTECTION SURVEILLANCE
001330 (base 16) EURO PROTECTION SURVEILLANCE
30 Rue du Doubs
STRASBOURG 67100
FR

00-13-25 (hex) Cortina Systems Inc
001325 (base 16) Cortina Systems Inc
840
W California Ave, Suite 100
Sunnyvale CA 94086
US

00-13-3D (hex) Micro Memory Curtiss Wright Co
00133D (base 16) Micro Memory Curtiss Wright Co
9540 Vassar Avenue
Chatsworth CA 91311
US

00-13-3F (hex) Eppendorf Instrumente GmbH
00133F (base 16) Eppendorf Instrumente GmbH
Barkhausenweg 1
Hamburg DE 22339
DE

00-13-41 (hex) Shandong New Beiyang Information Technology Co.,Ltd
001341 (base 16) Shandong New Beiyang Information Technology Co.,Ltd
NO.11 Xinwei Road
Weihai city Shandong 264200
CN

00-13-31 (hex) CellPoint Connect
001331 (base 16) CellPoint Connect
Billedvej 4
Copenhagen 2100
DK

00-13-35 (hex) VS Industry Berhad
001335 (base 16) VS Industry Berhad
Plo 47, Senai Ind. Est. II,
Senai Johor 81400
MY

00-12-C3 (hex) WIT S.A.
0012C3 (base 16) WIT S.A.
138 avenue Léon Bérenger
Saint Laurent du Var PACA 06700
FR

00-12-C8 (hex) Perfect
tech
0012C8 (base 16) Perfect tech
3F,No.9,LANE175,NANKAN RD.,
LUJHU TAOYUAN 338
TW

00-12-C6 (hex) TGC America, Inc
0012C6 (base 16) TGC America, Inc
2901 Tasman Drive, Suite 111
Santa Clara CA 95054
US

00-12-CC (hex) Bitatek CO., LTD
0012CC (base 16) Bitatek CO., LTD
6F.,No 115,Wugong 3rd Rd
Wugu District New Taipei City 248
TW

00-12-C1 (hex) Check Point Software Technologies
0012C1 (base 16) Check Point Software Technologies
5 Ha'solelim St.
Tel Aviv 67897
IL

00-12-ED (hex) AVG Advanced Technologies
0012ED (base 16) AVG Advanced Technologies
4140 Utica Ridge Road
Bettendorf IA 52722

US

00-12-EA (hex) Trane
0012EA (base 16) Trane
4833 White Bear Parkway
St. Paul MN 55110
US

00-12-E7 (hex) Projectek Networking Electronics Corp.
0012E7 (base 16) Projectek Networking Electronics Corp.
5F-9, No. 16, Lane 609, Sec. 5, Chungshin Rd.,
Sanchung,
Taipei 241
TW

00-12-FD (hex) OPTIMUS IC S.A.
0012FD (base 16) OPTIMUS IC S.A.
NAWOJOWSKA 118
NOWY SACZ MALOPOLSKA 33-300
PL

00-13-05 (hex) Epicom, Inc.
001305 (base 16) Epicom, Inc.
PO Box 24839
Oakland CA 94623-1839
US

00-13-06 (hex) Always On Wireless
001306 (base 16) Always On Wireless
3701 Kirby Dr
Houston TX 77098
US

00-12-FA (hex) THX LTD
0012FA (base 16) THX LTD
5201 Great America Parkway
Santa Clara CA 95054
US

00-12-E4 (hex) ZIEHL industrie-electronik GmbH + Co KG
0012E4 (base 16) ZIEHL industrie-electronik GmbH + Co KG
Daimlerstraße 13
Schwaebisch Hall 74523
DE

00-12-BB (hex) Telecommunications Industry Association TR-41 Committee
0012BB (base 16) Telecommunications Industry Association TR-41 Committee
2500 Wilson Blvd., Suite 300

Arlington VA 22201
US

00-12-B6 (hex) Santa Barbara Infrared, Inc.
0012B6 (base 16) Santa
Barbara Infrared, Inc.
30 S. Calle Cesar Chavez
Santa Barbara CA 93103
US

00-12-B9 (hex) Fusion Digital Technology
0012B9 (base 16) Fusion Digital Technology
Victoria Mews, 23 Millfield Road
Bingley BD16 1PY
GB

00-12-B4 (hex) Work Microwave GmbH
0012B4 (base 16) Work Microwave GmbH
Rudolf-Diesel-Ring 2
Holzkirchen 83607
DE

00-12-B5 (hex) Vialta, Inc.
0012B5 (base 16) Vialta, Inc.
48461 Fremont Blvd.
Fremont CA 94538
US

00-12-97 (hex) O2Micro, Inc.
001297 (base 16) O2Micro, Inc.
3118 Patrick Henry Drive
Santa Clara CA 95054
US

00-12-9D (hex) First International Computer do Brasil
00129D (base 16) First International Computer do Brasil
Rodovia BR 459
Santa Rita do Sapucaí Minas Gerais
BR

00-12-9C (hex) Yulinet
00129C (base 16) Yulinet
11F, Samhomoolsan B/D 275-6, Yangjae-dong
Seocho Seoul 137-941
KR

00-12-90 (hex) KYOWA Electric

& Machinery Corp.
001290 (base 16) KYOWA Electric & Machinery Corp.
4-8-16,Masuizumi
Kanazawa Ishikawa 921-8025
JP

00-12-91 (hex) KWS Computersysteme GmbH
001291 (base 16) KWS Computersysteme GmbH
Carl Zeiss Str. 1
Ettlingen BW 76275
DE

00-12-A3 (hex) Trust International B.V.
0012A3 (base 16) Trust International B.V.
Laan van Barcelona 600
Dordrecht Zuid holland 3317 DD
NL

00-12-A7 (hex) ISR TECHNOLOGIES Inc
0012A7 (base 16) ISR TECHNOLOGIES Inc
1100, rue Notre-Dame Ouest
Montreal Quebec H3C 1K3
CA

00-12-AA (hex) IEE, Inc.
0012AA (base 16) IEE, Inc.
7740 Lemona Avenue
Van Nuys, CA 91405
US

00-12-9F (hex) RAE Systems
00129F (base 16) RAE Systems
3775 North First Street
San Jose CA 95134
US

00-12-95 (hex) Aiware Inc.
001295 (base 16) Aiware Inc.
J-Tower 2F
Fuchu-shi Tokyo 183-0044
JP

00-12-8B (hex) Sensory Networks Inc
00128B
(base 16) Sensory Networks Inc
Level 6, 140 William St
East Sydney NSW 2011
AU

00-12-8F (hex) Montilio
00128F (base 16) Montilio
1 maskit st.
Hertzelia 46763
IL

00-12-89 (hex) Advance Sterilization Products
001289 (base 16) Advance Sterilization Products
33 Technology Drive
Irvine California 92618
US

00-12-84 (hex) Lab33 Srl
001284 (base 16) Lab33 Srl
C.so F. Perrone 24
Genoa GE 16152
IT

00-12-5B (hex) KAIMEI ELECTRONI
00125B (base 16) KAIMEI ELECTRONI
14-3F, NO.81,SEC. 1,HSIN-TAI-WU ROAD,HSICHIH,
TAIPEI HSIEN HSICHIH 221
TW

00-12-59 (hex) THERMO ELECTRON KARLSRUHE
001259 (base 16) THERMO ELECTRON KARLSRUHE
DIESELSTRAßE 4
KARLSRUHE Baden-Württemberg 76227
DE

00-12-5A (hex) Microsoft Corporation
00125A (base 16) Microsoft Corporation
One Microsoft Way
Redmond Washington 98052-6399
US

00-12-56 (hex) LG INFORMATION & COMM.
001256
(base 16) LG INFORMATION & COMM.
459-9,KASAN-DONG,KUMCHON-GU,
SEOUL 153-023
KR

00-12-B1 (hex) Dai Nippon Printing Co., Ltd
0012B1 (base 16) Dai Nippon Printing Co., Ltd
2-8-21,Akabane-minami
Kita-ku Tokyo 115-0044

JP

00-12-81 (hex) March Networks S.p.A.
001281 (base 16) March Networks S.p.A.
Via Dei Lavoratori Autobianchi n. 1,
Desio Milano 20033
IT

00-12-7E (hex) Digital Lifestyles Group, Inc.
00127E (base 16) Digital Lifestyles Group, Inc.
801 South Sentous Ave.
City of Industry CA 91748
US

00-12-6B (hex) Ascalade Communications Limited
00126B (base 16) Ascalade Communications Limited
Unit 10-11, 35/F, Cable TV Tower,

HK

00-11-DA (hex) Vivaas Technology Inc.
0011DA (base 16) Vivaas Technology Inc.
15F, No. 10, Sec 1, Pei-Hsin Rd.,
Hsin-Tien city Taipei Hsien, 231
TW

00-11-DD (hex) FROMUS TEC. Co., Ltd.
0011DD (base 16) FROMUS TEC. Co., Ltd.
2F
896-8 Hogye2-dong Dongan-Gu
431-836
KR

00-11-E4 (hex) Danelec Electronics A/S
0011E4 (base 16) Danelec Electronics A/S
Blokken 44
Birkeroed Copenhagen 3460
DK

00-11-E1 (hex) Arcelik A.S
0011E1 (base 16) Arcelik A.S
Cumhuriyet Mah., E5 Yan Yol, No:1,
Istanbul 34520
TR

00-12-33 (hex) JRC TOKKI Co.,Ltd.
001233 (base 16) JRC TOKKI Co.,Ltd.
3-2-1 Shinyoshidahigashi Kohoku-ku

Yokohama Kanagawa 223-8572
JP

00-12-2F (hex) Sanei Electric Inc.
00122F (base 16) Sanei Electric Inc.
5F Taisou-Ikebukuro Bldg.
Toshima-ku Tokyo 171-0014
JP

00-11-EB (hex) Innovative Integration
0011EB (base 16) Innovative Integration
2390A Ward Avenue
Simi Valley CA 93065
US

00-11-EA (hex) IWICS Inc.
0011EA (base 16) IWICS Inc.
19125 North Creek Parkway
Bothell WA 98011
US

00-11-E2 (hex) Hua Jung Components Co., Ltd.
0011E2 (base 16) Hua Jung Components
Co., Ltd.
5F, No.13, Lane 120, Sec.1, Nei Hu Road
Taipei 114
TW

00-12-46 (hex) T.O.M TECHNOLOGY INC..
001246 (base 16) T.O.M TECHNOLOGY INC..
906 Woolim E-biz Center 2,
Seoul Guro-Gu 184-1
KR

00-12-3D (hex) GES Co, Ltd
00123D (base 16) GES Co, Ltd
Room 710, Bundang Technopark, 700
Gyeonggi-Do 463-400
KR

00-12-39 (hex) S Net Systems Inc.
001239 (base 16) S Net Systems Inc.
10F Sungwon Bldg. Samsung-dong
Seoul 135-090
KR

00-11-FB (hex) Heidelberg Engineering GmbH
0011FB (base 16) Heidelberg Engineering GmbH

Tiergartenstraße 15
Heidelberg Baden-Württemberg 69121
DE

00-12-14 (hex) Koenig & Bauer AG
001214 (base 16) Koenig & Bauer AG
Friedrich-Koenig-Str. 4
Wuerzburg Bavaria 97080
DE

00-12-0F (hex) IEEE 802.3
00120F (base 16) IEEE 802.3

Oban PA34 5EJ
GB

00-12-0C (hex) CE-Infosys Pte Ltd
00120C (base 16) CE-Infosys Pte Ltd
390
Havelock Road
169662
SG

00-12-30 (hex) Picaso Infocommunication CO., LTD.
001230 (base 16) Picaso Infocommunication CO., LTD.
3F, Suntechcity, Sangdaewon 1-dong,
Sungnam-city Kyunggi-do 462-725
KR

00-12-1D (hex) Netfabric Corporation
00121D (base 16) Netfabric Corporation
67 Federal Road
Brookfield CT 06804
US

00-11-EF (hex) Conitec Datensysteme GmbH
0011EF (base 16) Conitec Datensysteme GmbH
Dieselstraße 11c
Dieburg Hessen 64807
DE

00-11-AD (hex) Shanghai Ruijie Technology
0011AD (base 16) Shanghai Ruijie Technology
27F, 420 Jiangning Rd.
Shanghai 200041
CN

00-11-A8 (hex) Quest Technologies

0011A8 (base 16) Quest Technologies
1060 Corporate Center Drive
Oconomowoc Wisconsin 53066
US

00-11-A1 (hex) VISION NETWARE CO.,LTD
0011A1 (base 16) VISION NETWARE CO.,LTD
Ace Twin Tower (2), #709
Seoul Guro-Gu 152-050
KR

00-11-A0 (hex) Vtech
Engineering Canada Ltd
0011A0 (base 16) Vtech Engineering Canada Ltd
200-7671 Alderbridge Way
Richmond BC V6X 1Z9
CA

00-11-BE (hex) AGP Telecom Co. Ltd
0011BE (base 16) AGP Telecom Co. Ltd
9F, 134 Chung-Hsiao E. RD
Taipei 106
TW

00-11-BA (hex) Elexol Pty Ltd
0011BA (base 16) Elexol Pty Ltd
Level 2 / 146 Bundall Road
Bundall Queensland 4217
AU

00-11-BC (hex) Cisco Systems, Inc
0011BC (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-11-B3 (hex) YOSHIMIYA CO.,LTD.
0011B3 (base 16) YOSHIMIYA CO.,LTD.
2-3-24 Bainan
OSAKA OSAKA-Pref 557-0033
JP

00-11-B6 (hex) Open Systems International
0011B6 (base 16) Open Systems International
4101 Arrowhead Drive
Medina MN 55340
US

00-11-B0 (hex) Fortelink Inc.
0011B0 (base 16) Fortelink Inc.
42501 Albrae street suite 202
Fremont CA 94538
US

00-11-AC (hex) Simtec Electronics
0011AC
(base 16) Simtec Electronics
Avondale Drive
Tarleton Lancashire PR4 6AX
GB

00-11-4F (hex) US Digital Television, Inc
00114F (base 16) US Digital Television, Inc
5807 N. Andrews Way
Fort Lauderdale FL 33309
US

00-11-72 (hex) COTRON CORPORATION
001172 (base 16) COTRON CORPORATION
12FL,No.150,Sec.4,Cheng-De Rd
Taipei City 111
TW

00-11-68 (hex) HomeLogic LLC
001168 (base 16) HomeLogic LLC
5919 Sea Otter Place
Carlsbad CA 92010
US

00-11-8F (hex) EUTECH INSTRUMENTS PTE. LTD.
00118F (base 16) EUTECH INSTRUMENTS PTE. LTD.
Blk 55,Ayer Rajah Crescent, #04-16/24.
139949
SG

00-11-91 (hex) CTS-Clima Temperatur Systeme GmbH
001191 (base 16) CTS-Clima Temperatur Systeme GmbH
Lotzenäcker 21
Hechingen Baden-Württemberg 72379
DE

00-11-8D (hex) Hanchang System Corp.
00118D (base 16) Hanchang System Corp.
1058-2, Shinkil-dong, Danwon-gu,
Ansan-si

Gyeonggi-do 425-839
KR

00-11-89 (hex) Aerotech Inc
001189 (base 16) Aerotech Inc
101 Zeta Drive
Pittsburgh PA 15238
US

00-11-82 (hex) IMI Norgren Ltd
001182 (base 16) IMI Norgren Ltd
PO Box 22
Lichfield Staffordshire WS13 6SB
GB

00-11-7A (hex) Singim International Corp.
00117A (base 16) Singim International Corp.
6F-2, No. 190, Sec. 2 Chung Hsin Road,
Hsin Tien City 231
TW

00-11-63 (hex) SYSTEM SPA DEPT. ELECTRONICS
001163 (base 16) SYSTEM SPA DEPT. ELECTRONICS
VIA GHIAROLA VECCHIA 73
FIORANO MODENESE MODENA I-41042
IT

00-11-5F (hex) ITX Security Co., Ltd.
00115F (base 16) ITX Security Co., Ltd.
9F Kolon Digital Tower Aston Bldg. 505-14
Gasan-dong Geumcheon-gu SEOUL 153-803
KR

00-11-53 (hex) Trident Tek, Inc.
001153 (base 16) Trident Tek, Inc.
8041 Cessna Ave #200
Gaithersburg MD 20879
US

00-11-D6 (hex) HandEra, Inc.
0011D6 (base
16) HandEra, Inc.
2859 104th St.
Des Moines IA 50322
US

00-11-CA (hex) Long Range Systems, Inc.
0011CA (base 16) Long Range Systems, Inc.

4550 Excel Parkway
Addison Texas 75001
US

00-11-C5 (hex) TEN Technology
0011C5 (base 16) TEN Technology
555 East Ocean Blvd.
Long Beach CA 90802
US

00-11-CD (hex) Axsun Technologies
0011CD (base 16) Axsun Technologies
1 Fortune Drive
Billerica MA 02460
US

00-11-9B (hex) Telesynergy Research Inc.
00119B (base 16) Telesynergy Research Inc.
4F, No. 49, Tung Hsin Rd.,
Taipei 110
TW

00-11-01 (hex) CET Technologies Pte Ltd
001101 (base 16) CET Technologies Pte Ltd
100 Jurong East Street 21
609602
SG

00-0F-FF (hex) Control4
000FFF (base 16) Control4
11734 S. Election Drive
Draper UT 84020
US

00-0F-FC (hex) Merit Li-Lin Ent.
000FFC (base 16) Merit Li-Lin Ent.
No. 20 Wu-Long 6 Rd.
Wu-Ku
Taipei 242
TW

00-0F-FB (hex) Nippon Denso Industry Co., Ltd.
000FFB (base 16) Nippon Denso Industry Co., Ltd.
3-14-19
Shibaura, Minato-ku Tokyo, 108-8560
JP

00-11-48 (hex) Prolon Control Systems

001148 (base 16) Prolon Control Systems
Herstedvesterstraede 56
Albertslund DK-2620
DK

00-11-40 (hex) Nanometrics Inc.
001140 (base 16) Nanometrics Inc.
250 Herzberg Rd.
Kanata Ontario K2K 2A1
CA

00-11-44 (hex) Assurance Technology Corp
001144 (base 16) Assurance Technology Corp
6304 Potomac Avenue
Alexandria Virginia 22307
US

00-11-3A (hex) SHINBORAM
00113A (base 16) SHINBORAM
4F DAHNWORLD BUILDING, 154-11 SAMSUNG-DONG
SEOUL 135-879
KR

00-11-12 (hex) Honeywell CMSS
001112 (base 16) Honeywell CMSS
8323 Lindbergh Ct
Sarasota FL 34243
US

00-0F-F2 (hex) Loud Technologies Inc.
000FF2 (base 16) Loud Technologies Inc.
16220 Wood-Red Rd. NE
Woodinville
WA 98072
US

00-0F-F1 (hex) nex-G Systems Pte.Ltd
000FF1 (base 16) nex-G Systems Pte.Ltd
25 Kallang Ave
339416
SG

00-0F-F3 (hex) Jung Myoung Communications&Technology
000FF3 (base 16) Jung Myoung Communications&Technology
1th FL., Dong IL Bldg.107 Yangjae-Dong
Seocho-Ku Seoul 137-130
KR

00-11-13 (hex) Fraunhofer FOKUS
001113 (base 16) Fraunhofer FOKUS
Kaiserin-Augusta-Allee 31
Berlin 10589
DE

00-0F-E0 (hex) NComputing Co.,Ltd.
000FE0 (base 16) NComputing Co.,Ltd.
6th Fl, JEI-Platz B/D
Seoul Gasan-dong Geumcheon-Gu 459-11
KR

00-0F-E3 (hex) Damm Cellular Systems A/S
000FE3 (base 16) Damm Cellular Systems A/S
Moellegade 68
Soenderborg DK-6400
DK

00-11-28 (hex) Streamit
001128 (base 16) Streamit
Flight Forum 3543
Eindhoven 5657 DW
NL

00-11-3F (hex) Alcatel DI
00113F (base 16) Alcatel DI
ZI lavoisier
EU Normandie
76260
FR

00-11-37 (hex) AICHI ELECTRIC CO., LTD.
001137 (base 16) AICHI ELECTRIC CO., LTD.
1
kasugai city aichi pref. 486-8666
JP

00-0F-D5 (hex) Schwechat - RISE
000FD5 (base 16) Schwechat - RISE
Am Concorde Park 2A
Schwechat 2320
AT

00-0F-67 (hex) West Instruments
000F67 (base 16) West Instruments
Unit 5, The Hyde, Lower Bevendean
Brighton East Sussex BN2 4JU
GB

00-0F-6E (hex) BBox
000F6E (base 16) BBox
Gyar u. 2. (115)
Budaors H-2040
HU

00-0F-6F (hex) FTA Communication Technologies
000F6F (base 16) FTA Communication Technologies
11, rue Pierre Werner
Betzdorf L-6832
LU

00-0F-63 (hex) Obzerv Technologies
000F63 (base 16) Obzerv Technologies
400 Jean Lesage
Quebec QC G1K8W1
CA

00-0F-65 (hex) icube Corp.
000F65 (base 16) icube Corp.
Olympia Center 2F,828-10,Yeoksam-dong,Kangnam-ku
Seoul South 135-935
KR

00-0F-CB (hex) 3Com
Ltd
000FCB (base 16) 3Com Ltd
Peoplebuilding 2
Hemel Hempstead Herts HP2 4NW
GB

00-0F-C5 (hex) KeyMed Ltd
000FC5 (base 16) KeyMed Ltd
KeyMed House
Southend on Sea Essex SS2 5QH
GB

00-0F-BF (hex) DGT Sp. z o.o.
000FBF (base 16) DGT Sp. z o.o.
ul. Jaskowa Dolina 15
Gdansk woj. pomorskie 80-252
PL

00-0F-BD (hex) MRV Communications (Networks) LTD
000FBD (base 16) MRV Communications (Networks) LTD
P.O Box 614
Yokneam 20692

IL

00-0F-B4 (hex) Timespace Technology
000FB4 (base 16) Timespace Technology
Blackstone Road
Huntingdon Cambridgeshire PE29 6TT
GB

00-0F-A6 (hex) S2 Security Corporation
000FA6 (base 16) S2 Security Corporation
6 Abbott Road
Wellesley MA 02481
US

00-0F-AA (hex) Nexus Technologies
000FAA (base 16) Nexus Technologies
10 National Ave.
Fletcher NC 28732
US

00-0F-A8 (hex) Photometrics, Inc.
000FA8 (base 16) Photometrics,
Inc.
3440 E Britannia Drive
Tucson AZ 85706-5006
US

00-0F-9D (hex) DisplayLink (UK) Ltd
000F9D (base 16) DisplayLink (UK) Ltd
Mount Pleasant House
Cambridge Cambridgeshire CB3 0RN
GB

00-0F-92 (hex) Microhard Systems Inc.
000F92 (base 16) Microhard Systems Inc.
#17, 2135-32Ave NE
Calgary AB T2E6Z3
CA

00-0F-89 (hex) Winnertec System Co., Ltd.
000F89 (base 16) Winnertec System Co., Ltd.
#405, 4th Floor. Ace-Techno Tower III, 197-48,
Seoul 152-766
KR

00-0F-5D (hex) Genexis BV
000F5D (base 16) Genexis BV
Lodewijktraat 1A

5652 AC Eindhoven
SE

00-0F-58 (hex) Adder Technology Limited
000F58 (base 16) Adder Technology Limited
Technology House
Bar Hill Cambridgeshire CB3 8SQ
GB

00-0F-71 (hex) Sanmei Electronics Co.,Ltd
000F71 (base 16) Sanmei Electronics Co.,Ltd
2-2-1,Seikai,Shimizu
Shizuoka 424-0924
JP

00-0F-6B (hex) GateWare
Communications GmbH
000F6B (base 16) GateWare Communications GmbH
Allersberger Strasse 185 F
Nuernberg Bavaria D-90461
DE

00-0E-CA (hex) WTSS Inc
000ECA (base 16) WTSS Inc
5999 Avenida Encinas
Carlsbad CA 92008
US

00-0E-CC (hex) Tableau, LLC
000ECC (base 16) Tableau, LLC
N8 W22195 Johnson Drive, Suite 100
Waukesha WI 53186
US

00-0E-D5 (hex) COPAN Systems Inc.
000ED5 (base 16) COPAN Systems Inc.
2605 Trade Centre Ave.
Longmont CO 80503
US

00-0E-C8 (hex) Zoran Corporation
000EC8 (base 16) Zoran Corporation
1390 Kifer Rd.
Sunnyvale CA 94086
US

00-0E-CB (hex) VineSys Technology
000ECB (base 16) VineSys Technology

3350 Scott Blvd. building 15-03
Santa Clara CA 95054
US

00-0E-D2 (hex) Filtronic plc
000ED2 (base 16) Filtronic plc
The Waterfront
Saltaire W Yorks BD18 3TT
GB

00-0E-D9 (hex) Aksys, Ltd.
000ED9 (base 16) Aksys, Ltd.
2
Marriott Drive
Lincolnshire IL 60069
US

00-0E-C2 (hex) Lowrance Electronics, Inc.
000EC2 (base 16) Lowrance Electronics, Inc.
12000 E. Skelly Drive
Tulsa OK 74128
US

00-0E-FB (hex) Macey Enterprises
000EFB (base 16) Macey Enterprises
P.O. Box 7267
Tempe AZ 85281
US

00-0E-FA (hex) Optoway Technology Incorporation
000EFA (base 16) Optoway Technology Incorporation
No. 38, Kuang Fu South Road
Hu Kou Hsin Chu 303
TW

00-0E-FD (hex) FUJINON CORPORATION
000EFD (base 16) FUJINON CORPORATION
1-324 UETAKE, KITA-KU,
SAITAMA CITY SAITAMA 331-9624
JP

00-0F-12 (hex) Panasonic Europe Ltd.
000F12 (base 16) Panasonic Europe Ltd.
Hesebergweg 49-51
Peine D-31228
DE

00-0F-0E (hex) WaveSplitter Technologies, Inc.

000F0E (base 16) WaveSplitter Technologies, Inc.
2248 North First Street
San Jose CA 95131
US

00-0F-0C (hex) SYNCHRONIC ENGINEERING
000F0C
(base 16) SYNCHRONIC ENGINEERING
25 CAP DARNETAL
DARNETAL FRANCE 76160
FR

00-0F-0B (hex) Kentima Technologies AB
000F0B (base 16) Kentima Technologies AB
Box 174
Staffanstorp Skåne 245 44
SE

00-0F-09 (hex) Private
000F09 (base 16) Private

00-0E-B6 (hex) Riverbed Technology, Inc.
000EB6 (base 16) Riverbed Technology, Inc.
680 Folsom St
San Francisco CA 94107
US

00-0E-B7 (hex) Knovative, Inc.
000EB7 (base 16) Knovative, Inc.
11245 West Bernardo Court
San Diego CA 92127
US

00-0F-21 (hex) Scientific Atlanta, Inc
000F21 (base 16) Scientific Atlanta, Inc
5030 Sugarloaf Parkway
Lawrenceville Ga 30042
US

00-0F-11 (hex) Prodrive B.V.
000F11 (base 16) Prodrive B.V.
P.O. 28030
Eindhoven 5602 JA
NL

00-0F-13 (hex) Nisca corporation
000F13 (base 16) Nisca corporation
430-1

Masuho-Cho Yamanashi-Ken 400-0593
JP

00-0F-14 (hex) Mindray
Co., Ltd.
000F14 (base 16) Mindray Co., Ltd.
Mindray Building, Keji 12th Road South
Shenzhen Guangdong 518057
CN

00-0F-46 (hex) SINAR AG
000F46 (base 16) SINAR AG
Stadtweg 24
Feuerthalen ZH CH-8245
CH

00-0F-41 (hex) Zipher Ltd
000F41 (base 16) Zipher Ltd
7 Faraday Building
Nottingham Nottinghamshire NG7 2QP
GB

00-0F-4D (hex) TalkSwitch
000F4D (base 16) TalkSwitch
1545 Carling Ave
Ottawa Ontario K1Z 8P9
CA

00-0E-DD (hex) SHURE INCORPORATED
000EDD (base 16) SHURE INCORPORATED
5800 W. TOUHY AVE.
NILES IL 60714
US

00-0E-DC (hex) Tellion INC.
000EDC (base 16) Tellion INC.
5th Fl. BONA Venture Town
Seoul Seocho-gu. 137-719
KR

00-0E-CD (hex) SKOV A/S
000ECD (base 16) SKOV A/S
Hedelund 4
Roslev DK-7870
DK

00-0E-F5 (hex) iPAC Technology Co., Ltd.
000EF5 (base 16) iPAC Technology Co., Ltd.

6F, No. 30, Shingjung Road, Neihu
Taipei
114
TW

00-0E-B1 (hex) Newcotech,Ltd
000EB1 (base 16) Newcotech,Ltd
Anyang Megavally 715-3
Anyang City Gueonggi-Do 431-160
KR

00-0E-B4 (hex) GUANGZHOU GAOKE COMMUNICATIONS TECHNOLOGY CO.LTD.
000EB4 (base 16) GUANGZHOU GAOKE COMMUNICATIONS TECHNOLOGY CO.LTD.
AVE. 398 ZHONGSHAN
GUANGZHOU GUANGDONG 510660
CN

00-0E-A9 (hex) Shanghai Xun Shi Communications Equipment Ltd. Co.
000EA9 (base 16) Shanghai Xun Shi Communications Equipment Ltd. Co.
Hi-Tech King World, Unit C603
Shanghai 200001
CN

00-0E-A3 (hex) CNCR-IT CO.,LTD,HangZhou P.R.CHINA
000EA3 (base 16) CNCR-IT CO.,LTD,HangZhou P.R.CHINA
Yinjiang mansion NO.5F Wenyi Road
HangZhou ZheJiang 310012
CN

00-0E-A2 (hex) McAfee, Inc
000EA2 (base 16) McAfee, Inc
350 SW 12th Avenue
Deerfield Beach FL 33442
US

00-0E-9B (hex) Ambit Microsystems Corporation
000E9B (base 16) Ambit Microsystems Corporation
5F-1,
5 Hsin-An Rd. Science-Based Industrial Park
Hsinchu 300
TW

00-0E-93 (hex) Milénio 3 Sistemas Electrónicos, Lda.
000E93 (base 16) Milénio 3 Sistemas Electrónicos, Lda.
Edifício Via Norte, R. Espido 164C S403
Maia Minho 4470-177
PT

00-0E-54 (hex) AlphaCell Wireless Ltd.
000E54 (base 16) AlphaCell Wireless Ltd.
22 Zarhin street
Raanana 43662
IL

00-0E-4E (hex) Waveplus Technology Co., Ltd.
000E4E (base 16) Waveplus Technology Co., Ltd.
347 HsinHu 2nd Rd., NeiHu
Taipei 114
TW

00-0E-4A (hex) Changchun Huayu WEBPAD Co.,LTD
000E4A (base 16) Changchun Huayu WEBPAD Co.,LTD
4370 Gaoxin Road, High-Tech
Changchun Jilin 130012
CN

00-0E-63 (hex) Lemke Diagnostics GmbH
000E63 (base 16) Lemke Diagnostics GmbH
Radeburger Str. 47
Volkersdorf Saxony 01468
DE

00-0E-5B (hex) ParkerVision - Direct2Data
000E5B (base 16) ParkerVision - Direct2Data
9432 Baymeadows Way
Jacksonville
FL 32246
US

00-0E-60 (hex) 360SUN Digital Broadband Corporation
000E60 (base 16) 360SUN Digital Broadband Corporation
2F-2, No.2, Jianba Rd.,
Chung Ho Taipei 235
TW

00-0E-76 (hex) GEMSOC INNOVISION INC.
000E76 (base 16) GEMSOC INNOVISION INC.
9F,No.516,Sec,1Neihu Rd.,
Taipei 114
TW

00-0E-7D (hex) Electronics Line 3000 Ltd.
000E7D (base 16) Electronics Line 3000 Ltd.
2 Granit St.
Petah Tikva Kiryar Arie 449130
IL

00-0E-78 (hex) Amtelco
000E78 (base 16) Amtelco
4800 Curtin Drive
McFarland WI 53558
US

00-0E-71 (hex) Gemstar Technology Development Ltd.
000E71 (base 16) Gemstar Technology Development Ltd.
Unit 201, Stulex house, 698 prince edward road east, san po kong, Kolwoon
Hong Kong 852
HK

00-0E-70 (hex) in2 Networks
000E70 (base 16) in2 Networks
320 W 200 S
SLC UT 84101
US

00-0E-41 (hex) NIHON MECHATRONICS CO.,LTD.
000E41
(base 16) NIHON MECHATRONICS CO.,LTD.
9-6 SHIOMIDAI, MIYAMAE-KU
KAWASAKI-SHI KANAGAWA-KEN 216-0013
JP

00-0E-3C (hex) Transact Technologies Inc
000E3C (base 16) Transact Technologies Inc
20 Bomax Drive
Ithaca New York 14850
US

00-0E-8D (hex) Systems in Progress Holding GmbH
000E8D (base 16) Systems in Progress Holding GmbH
Exerzierplatzstrasse 85
Graz Styria 8051
AT

00-0E-23 (hex) Incipient, Inc.
000E23 (base 16) Incipient, Inc.
230 Third Ave.
Waltham MA 02451
US

00-0E-25 (hex) Hannae Technology Co., Ltd
000E25 (base 16) Hannae Technology Co., Ltd
4F, Hyunjin Bldg., #798-30, Yeoksam-Dong
SEOUL 135-080

KR

00-0E-20 (hex) ACCESS Systems Americas, Inc.
000E20 (base 16) ACCESS Systems Americas, Inc.
1188 East Arques Avenue
Sunnyvale CA 94085
US

00-0E-21 (hex) MTU Friedrichshafen GmbH
000E21 (base 16) MTU Friedrichshafen GmbH
Maybachplatz 1
Friedrichshafen
Baden Wuertemberg 88040
DE

00-0E-22 (hex) Private
000E22 (base 16) Private

00-0E-1C (hex) Hach Company
000E1C (base 16) Hach Company
5600 Lindbergh Drive
Loveland CO 80538
US

00-0E-37 (hex) Harms & Wende GmbH & Co.KG
000E37 (base 16) Harms & Wende GmbH & Co.KG
Grossmoorkehre 9
Hamburg D-21079
DE

00-0E-31 (hex) Olympus Soft Imaging Solutions GmbH
000E31 (base 16) Olympus Soft Imaging Solutions GmbH
Johann-Krane-Weg 39
Münster 48149
DE

00-0E-2F (hex) Roche Diagnostics GmbH
000E2F (base 16) Roche Diagnostics GmbH
Roche Diabetes Care Insulin Delivery Systems
D-68305 Mannheim
DE

00-0E-2C (hex) Netcodec co.
000E2C (base 16) Netcodec co.
401 Daeion S/W Center, 48 Jangdong
Daejon 305-715
KR

00-0D-D4 (hex) Symantec Corporation
000DD4 (base 16) Symantec Corporation
275 2nd Ave
Waltham MA 02541
US

00-0D-D2 (hex) Simrad Optronics
ASA
000DD2 (base 16) Simrad Optronics ASA
Ensjøveienn 23B
PO Box 6114 Etterstad NO-0602 Oslo
NO

00-0D-D1 (hex) Stryker Corporation
000DD1 (base 16) Stryker Corporation
4100 E Milham
Kalamazoo MI 49001
US

00-0D-D7 (hex) Bright
000DD7 (base 16) Bright
1-12-44 Aobadai
Kashiwa-shi Chiba-ken 277-0055
JP

00-0D-D9 (hex) Anton Paar GmbH
000DD9 (base 16) Anton Paar GmbH
Anton-Paar-Strasse 20
Graz 8054
AT

00-0D-E4 (hex) DIGINICS, Inc.
000DE4 (base 16) DIGINICS, Inc.
178-7 Poi-dong
Kangnam-gu Seoul 135-961
KR

00-0D-DC (hex) VAC
000DDC (base 16) VAC
20F, N0. 456, Sec. 4, Hsin Yi Rd.,
Taipei 110
TW

00-0D-E0 (hex) ICPDAS Co.,LTD
000DE0 (base 16) ICPDAS Co.,LTD
No. 111, Kuang-Fu N. Rd., Hsin-Chu Indu
HSINCHU 303
TW

00-0D-E3 (hex) AT Sweden AB
000DE3 (base 16) AT Sweden AB
P.O. Box 1166
Kista Stockholm SE-164 26
SE

00-0D-C8
(hex) AirMagnet, Inc
000DC8 (base 16) AirMagnet, Inc
830 E. Arques Avenue
Sunnyvale CA 94085
US

00-0D-BE (hex) Bel Fuse Europe Ltd.,UK
000DBE (base 16) Bel Fuse Europe Ltd.,UK
45/46 Riverside 2
Rochester Kent ME2 4DP
GB

00-0D-C9 (hex) THALES Elektronik Systeme GmbH
000DC9 (base 16) THALES Elektronik Systeme GmbH
Fritz-Ludwig-Str. 1
Koblenz 56070
DE

00-0D-C5 (hex) EchoStar Global B.V.
000DC5 (base 16) EchoStar Global B.V.
Schuilenburglaan 5a
Almelo Overijssel 7604BJ
NL

00-0E-02 (hex) Advantech AMT Inc.
000E02 (base 16) Advantech AMT Inc.
657 Orly Ave.
Dorval Quebec H9P 1G1
CA

00-0D-EA (hex) Kingtel Telecommunication Corp.
000DEA (base 16) Kingtel Telecommunication Corp.
147 Kang Ning St.
Hsi Chih City Taipei Hsien 221
TW

00-0D-ED (hex) Cisco Systems, Inc
000DED (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose

CA 94568
US

00-0E-09 (hex) Shenzhen Coship Software Co.,LTD.
000E09 (base 16) Shenzhen Coship Software Co.,LTD.
7/F,Block A,W2 Bldg,Hi-Tech Industrial Park,Shenzhen,China
Shenzhen Guangdong 518057
CN

00-0E-05 (hex) WIRELESS MATRIX CORP.
000E05 (base 16) WIRELESS MATRIX CORP.
UNIT 1A-3751 NORTH FRASER WAY
BURNABY BC V5J 5G4
CA

00-0D-81 (hex) Pepperl+Fuchs GmbH
000D81 (base 16) Pepperl+Fuchs GmbH
Lilienthalstraße 200
Mannheim 68307
DE

00-0D-7A (hex) DiGATTO Asia Pacific Pte Ltd
000D7A (base 16) DiGATTO Asia Pacific Pte Ltd
190 Mddle Road, #19-05 Fortune Center
188979
SG

00-0D-77 (hex) FalconStor Software
000D77 (base 16) FalconStor Software
125 Baylis Rd
Melville NY 11747
US

00-0D-76 (hex) Hokuto Denshi Co,. Ltd.
000D76 (base 16) Hokuto Denshi Co,. Ltd.
3-7 Odori Nishi 16-Chome Chuoku
Sapporo Hokkaido 060-0042
JP

00-0D-7B (hex) Consensys
Computers Inc.
000D7B (base 16) Consensys Computers Inc.
215 Shields Ct.
Markham ON L3R 8V2
CA

00-0D-6C (hex) M-Audio
000D6C (base 16) M-Audio

45 E ST Joseph St.
Arcadia CA 91006
US

00-0D-5E (hex) NEC Personal Products
000D5E (base 16) NEC Personal Products
6-80, Shimohanazawa 2-Chome
Yonezawa-shi Yamagata 992-8520
JP

00-0D-5B (hex) Smart Empire Investments Limited
000D5B (base 16) Smart Empire Investments Limited
Suite 2001-2006,Level 20 Landmark North
Xin Jie Hong Kong 00852
CN

00-0D-59 (hex) Amity Systems, Inc.
000D59 (base 16) Amity Systems, Inc.
888 Tasman Drive
Milpitas CA 95035
US

00-0D-9F (hex) RF Micro Devices
000D9F (base 16) RF Micro Devices
2191 Zanker Road
San Jose CA 95131
US

00-0D-A5 (hex) Fabric7 Systems, Inc
000DA5 (base 16) Fabric7 Systems, Inc
1300 Crittenden Lane
Mountain View CA 94043
US

00-0D-99 (hex) Orbital
Sciences Corp.; Launch Systems Group
000D99 (base 16) Orbital Sciences Corp.; Launch Systems Group
3380 S. Price Rd.
Chandler, AZ 85248
US

00-0D-50 (hex) Galazar Networks
000D50 (base 16) Galazar Networks
35 Fitzgerald Ave
Ottawa ON K2H 1E6
CA

00-0D-49 (hex) Triton Systems of Delaware, Inc.

000D49 (base 16) Triton Systems of Delaware, Inc.
522 E. Railroad St.
Long Beach MS 39560
US

00-0D-48 (hex) AEWIN Technologies Co., Ltd.
000D48 (base 16) AEWIN Technologies Co., Ltd.
7F, No. 2, Lane 47, Sec. 3, Nan-Gang Rd.
TAIPEI 115
TW

00-0D-8F (hex) King Tsushin Kogyo Co., LTD.
000D8F (base 16) King Tsushin Kogyo Co., LTD.
1-10-1 Edanishi Aobaku
Yokohama 225-0014
JP

00-0D-89 (hex) Bils Technology Inc
000D89 (base 16) Bils Technology Inc
508 S River Oaks Drive
Indialantic FL 32903
US

00-0D-86 (hex) Huber + Suhner AG
000D86 (base 16) Huber + Suhner AG
Degersheimerstrasse
14
9100 Herisau
CH

00-0D-BC (hex) Cisco Systems, Inc
000DBC (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0D-70 (hex) Datamax Corporation
000D70 (base 16) Datamax Corporation
4501 Parkway Commerce Blvd
Orlando FL 32808
US

00-0D-6F (hex) Ember Corporation
000D6F (base 16) Ember Corporation
343 Congress St
Boston Ma 02210
US

00-0D-3F (hex) VTI Instruments Corporation
000D3F (base 16) VTI Instruments Corporation
5425 Warner Road, Suite 13
Valley View OH 44125
US

00-0C-E3 (hex) Option International N.V.
000CE3 (base 16) Option International N.V.
Kolonel Begaultlaan 45
Leuven Brabant 3012
BE

00-0C-E7 (hex) MediaTek Inc.
000CE7 (base 16) MediaTek Inc.
1F, No. 13, Innovation Road 1,
Hsinchu 300
TW

00-0C-E4 (hex) NeuroCom International, Inc.
000CE4 (base 16) NeuroCom International, Inc.
9570
SE Lawnfield Rd
Clackamas OR 97015
US

00-0C-E8 (hex) GuangZhou AnJuBao Co., Ltd
000CE8 (base 16) GuangZhou AnJuBao Co., Ltd
HeiQiaoTang TangXia TianHe
GuangZhou GuangDong 510665
CN

00-0C-D0 (hex) Symetrix
000CD0 (base 16) Symetrix
6408 216th St SW
Mountlake Terrace WA 98043
US

00-0C-D9 (hex) Itcare Co., Ltd
000CD9 (base 16) Itcare Co., Ltd
408 KT Seocho, 1001-1 Bangbae-dong,
Seoul 137-850
KR

00-0C-D5 (hex) Passave Inc.
000CD5 (base 16) Passave Inc.
1557 Jasper Dr.
Sunnyvale CA 94087
US

00-0C-CA (hex) HGST a Western Digital Company
000CCA (base 16) HGST a Western Digital Company
3403 Yerba Buena Road
San Jose CA 95135
US

00-0C-B5 (hex) Premier Technolgies, Inc
000CB5 (base 16) Premier Technolgies, Inc
PO Box 159
Long Lake MN 55356
US

00-0C-B6 (hex) NANJING SEU MOBILE & INTERNET TECHNOLOGY CO.,LTD
000CB6 (base 16) NANJING
SEU MOBILE & INTERNET TECHNOLOGY CO.,LTD
5th floor,Building 5,ChangJiangHou Street No.6
Nanjing Jiangsu 210018
CN

00-0C-C3 (hex) BeWAN systems
000CC3 (base 16) BeWAN systems
16 rue du Moulin des Bruyères Courbevoie
Courbevoie Hauts de Seine 92400
FR

00-0C-B4 (hex) AutoCell Laboratories, Inc.
000CB4 (base 16) AutoCell Laboratories, Inc.
174 Concord Street
Peterborough, New Hampshire 03458
US

00-0D-17 (hex) Turbo Networks Co.Ltd
000D17 (base 16) Turbo Networks Co.Ltd
2F,No 1223, Chung Cheng Rd.
Tao Yuan 330
TW

00-0D-18 (hex) Mega-Trend Electronics CO., LTD.
000D18 (base 16) Mega-Trend Electronics CO., LTD.
Tong Fu Yu Ind., Ku Keng Village, Guan Lan
Shengzhen Guang Dong 518110
CN

00-0D-20 (hex) ASAHIKASEI TECHNOSYSTEM CO.,LTD.
000D20 (base 16) ASAHIKASEI TECHNOSYSTEM CO.,LTD.
Kanda Jinbocho 1-105
Chiyoda-ku Tokyo 101-8101

JP

00-0D-0E (hex) Inqnet Systems,
Inc.
000D0E (base 16) Inqnet Systems, Inc.
321 NKIC Center,
Seoul 120-100
KR

00-0D-11 (hex) DENTSPLY - Gendex
000D11 (base 16) DENTSPLY - Gendex
901 West Oakton Street
Des Plaines IL 60018-1884
US

00-0D-04 (hex) Foxboro Eckardt Development GmbH
000D04 (base 16) Foxboro Eckardt Development GmbH
Glockenstrasse 52
Stuttgart Baden-Württemberg 70376
DE

00-0D-05 (hex) cybernet manufacturing inc.
000D05 (base 16) cybernet manufacturing inc.
5 holland
irvine ca 92618
US

00-0D-08 (hex) AboveCable, Inc.
000D08 (base 16) AboveCable, Inc.
8403 Colesville Road, #825
Silver Spring MD 20910
US

00-0D-25 (hex) SANDEN CORPORATION
000D25 (base 16) SANDEN CORPORATION
20 Kotobuki-cho
Isesaki-shi Gunma 372-8502
JP

00-0D-24 (hex) SENTEC E&E CO., LTD.
000D24 (base 16) SENTEC E&E CO., LTD.
No. 32. Gong5 Rd.
Lungtan Taoyuan 325
TW

00-0D-22 (hex) Unitronics
LTD
000D22 (base 16) Unitronics LTD

Unitronics Building
Ben Gurion Airport 70100
IL

00-0D-14 (hex) Vtech Innovation LP dba Advanced American Telephones
000D14 (base 16) Vtech Innovation LP dba Advanced American Telephones
203-600 Parsippany Rd
Parsippany NJ 07054
US

00-0A-07 (hex) WebWayOne Ltd
000A07 (base 16) WebWayOne Ltd
11 Kingfisher Court,
Newbury Berkshire RG14 5SJ
GB

00-0C-B0 (hex) Star Semiconductor Corporation
000CB0 (base 16) Star Semiconductor Corporation
6F, No.17, Li-Hsin Rd
Hsinchu City 300
TW

00-0C-34 (hex) Vixen Co., Ltd.
000C34 (base 16) Vixen Co., Ltd.
5-17-3 Higashitokorozawa
Tokorozawa Saitama 359-0021
JP

00-0D-3A (hex) Microsoft Corp.
000D3A (base 16) Microsoft Corp.
One Microsoft Way
Redmond Wa. 98052
US

00-0D-30 (hex) IceFyre Semiconductor
000D30 (base 16) IceFyre Semiconductor
Suite 300
Kanata Ontario K2K
3C9
CA

00-0D-31 (hex) Compellent Technologies, Inc.
000D31 (base 16) Compellent Technologies, Inc.
7625 Smetana Lane
Eden Prairie Minnesota 55344
US

00-0C-FE (hex) Grand Electronic Co., Ltd

000CFE (base 16) Grand Electronic Co., Ltd
Room 1710, Block B Lucky tower, No.3 Don
Beijing 100027
CN

00-0C-D2 (hex) Schaffner EMV AG
000CD2 (base 16) Schaffner EMV AG
Nordstrasse 1
Luterbach CH-4542
CH

00-0C-65 (hex) Sunin Telecom
000C65 (base 16) Sunin Telecom
1025-5 Dokok-Ri, Wabu-Eub
Namyangju-City Kyunggi-Do 472-900
KR

00-0C-6F (hex) Amtek system co.,LTD.
000C6F (base 16) Amtek system co.,LTD.
14F-11,No.79,Sec. 1 ,Hsin Tai Wu Rd.,
Taipei 221
TW

00-0C-6C (hex) Eve Systems GmbH
000C6C (base 16) Eve Systems GmbH
Rotkreuzplatz 1
Munich 80634
DE

00-0C-58 (hex) M&S Systems
000C58 (base 16) M&S Systems
2861 Congressman Lane
Dallas TX 75220
US

00-0C-B1
(hex) Salland Engineering (Europe) BV
000CB1 (base 16) Salland Engineering (Europe) BV
Bedrijvenpark Berkum
Zwolle OV 8024 HA
NL

00-0C-BC (hex) Iscutum
000CBC (base 16) Iscutum
#899-6 Ho-Gye Dong, Dong-An Gu
An-Yang City Kyong-Gi Do 431-080
KR

00-0C-A2 (hex) Harmonic Video Network
000CA2 (base 16) Harmonic Video Network
10 Ha'amal st. Park Afek
Rosh Ha'ayin 48092
IL

00-0C-A4 (hex) Promptttec Product Management GmbH
000CA4 (base 16) Promptttec Product Management GmbH
Mariatrosterstr. 41
Graz AUSTRIA A-8043
AT

00-0C-98 (hex) LETEK Communications Inc.
000C98 (base 16) LETEK Communications Inc.
Taeyang Bd. 2nd Floor, 2486
SongNam Kyunggi-do 462-824
KR

00-0C-8E (hex) Mentor Engineering Inc
000C8E (base 16) Mentor Engineering Inc
2891 Sunridge Way NE
Calgary Alberta T1Y7K7
CA

00-0C-7E (hex) Tellium Incorporated
000C7E (base 16) Tellium
Incorporated
2 Crescent Place
Oceanport New Jersey 07757
US

00-0C-73 (hex) TELSON ELECTRONICS CO., LTD
000C73 (base 16) TELSON ELECTRONICS CO., LTD
Telson Venture Tower., 949-3 Dogok-Dong
Seoul Kangnam-Ku 135-739
KR

00-0C-5B (hex) HANWANG TECHNOLOGY CO.,LTD
000C5B (base 16) HANWANG TECHNOLOGY CO.,LTD
8F,Automation Building,95 Zhongguancun,
Beijing 100080
CN

00-0C-60 (hex) ACM Systems
000C60 (base 16) ACM Systems
3034 Gold Canal Drive
Rancho Cordova CA 95670
US

00-0C-87 (hex) AMD
000C87 (base 16) AMD
4555 Great America Pkwy
Santa Clara CA 95054
US

00-0C-83 (hex) Logical Solutions
000C83 (base 16) Logical Solutions
100T Washington Street
Milford CT 06460
US

00-0C-51 (hex) Scientific Technologies Inc.
000C51 (base 16) Scientific Technologies Inc.
6550 Dumbarton Circle
Fremont CA 94560
US

00-0C-39 (hex) Sentinel Wireless Inc.
000C39
(base 16) Sentinel Wireless Inc.
439 S. Union St.
South Lawrence MA 01843
US

00-0C-96 (hex) OQO, Inc.
000C96 (base 16) OQO, Inc.
1800 Illinois Street
San Francisco CA 94124
US

00-0C-08 (hex) HUMEX Technologies Corp.
000C08 (base 16) HUMEX Technologies Corp.
5F, No.5, Lane 44, Szu Wei Rd. Taan Taip
Taipei 106
TW

00-0C-0D (hex) Communications & Power Industries / Satcom Division
000C0D (base 16) Communications & Power Industries / Satcom Division
811 Hansen Way MS S-600
Palo Alto CA 94303
US

00-0C-04 (hex) Tecnova
000C04 (base 16) Tecnova
2383 N Delany Rd
Waukegan IL 60087-1836

US

00-0B-F6 (hex) Nitgen Co., Ltd
000BF6 (base 16) Nitgen Co., Ltd
4th FL. 1337-31 Seocho-dong, Seocho-ku
Seoul 137-860
KR

00-0C-01 (hex) Abatron AG
000C01 (base 16) Abatron AG
Lettenstrasse 9
Rotkreuz CH-6343
CH

00-0B-F0 (hex) MoTEX Products Co.,
Ltd.
000BF0 (base 16) MoTEX Products Co., Ltd.
C.P.O.Box 6912
Chong-gu Seoul 82
KR

00-0B-F1 (hex) LAP Laser Applikations
000BF1 (base 16) LAP Laser Applikations
Zeppelinstraße 23
Lüneburg Niedersachsen 21337
DE

00-0B-EE (hex) inc.jet, Incorporated
000BEE (base 16) inc.jet, Incorporated
One Winnenden Road
Norwich CT 06360
US

00-0B-E2 (hex) Lumenera Corporation
000BE2 (base 16) Lumenera Corporation
2520B St. Laurent Blvd.
Ottawa Ontario K1B 4R8
CA

00-0B-E1 (hex) Nokia NET Product Operations
000BE1 (base 16) Nokia NET Product Operations
313 Fairchild Drive
Mountain View California 94043
US

00-0C-26 (hex) Weintek Labs. Inc.
000C26 (base 16) Weintek Labs. Inc.
3F, No.910, Chung Cheng Rd.

Chung Ho city Taipei Hsien 236
TW

00-0C-2B (hex) ELIAS Technology, Inc.
000C2B (base 16) ELIAS Technology, Inc.
3F, 1015, Yung-An Road,
Taoyuan City Taoyuan
330
TW

00-0C-1A (hex) Quest Technical Solutions Inc.
000C1A (base 16) Quest Technical Solutions Inc.
4110 Mourning Dove Crt.
Melbourne FL 32934
US

00-0C-24 (hex) ANATOR
000C24 (base 16) ANATOR
44, rue d'Estienne d'Orves
sartrouville yvelines 78500
FR

00-0C-19 (hex) Telio Communications GmbH
000C19 (base 16) Telio Communications GmbH
Elbchaussee 1
Hamburg 22765
DE

00-0C-1D (hex) Mettler & Fuchs AG
000C1D (base 16) Mettler & Fuchs AG
Querstrasse 17
CH-8951 Fahrweid
CH

00-0C-13 (hex) MediaQ
000C13 (base 16) MediaQ
2975 San Ysidro Way
Santa Clara CA 95051
US

00-0C-32 (hex) Avionic Design GmbH
000C32 (base 16) Avionic Design GmbH
Wragekamp 10
Hamburg 22397
DE

00-0C-33 (hex) Compucase Enterprise Co. Ltd.
000C33 (base 16) Compucase Enterprise Co. Ltd.

225 Lane 54, An Ho Road, Section 2nd.
Tainan City 70942
TW

00-0C-36 (hex) S-Takaya
Electronics Industry Co.,Ltd.
000C36 (base 16) S-Takaya Electronics Industry Co.,Ltd.
3121-1 Satomi Satosyo-cho
Asakuchi-gun Okayama 719-0301
JP

00-0C-2D (hex) FullWave Technology Co., Ltd.
000C2D (base 16) FullWave Technology Co., Ltd.
7F-6, No.26, TaiYuan St.,
JuBei Hsin Chu 302
TW

00-0B-FD (hex) Cisco Systems, Inc
000BFD (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0B-F4 (hex) Private
000BF4 (base 16) Private

00-0B-FA (hex) EXEMYS SRL
000BFA (base 16) EXEMYS SRL
LOYOLA 680
CAPITAL FEDERAL BS AS C1414
AR

00-0B-FB (hex) D-NET International Corporation
000BFB (base 16) D-NET International Corporation
15, Wu-Chuan 5th Road, Wu-Ku Industrial
Taipei Hsieh 248
US

00-0B-CB (hex) Fagor Automation , S. Coop
000BCB (base 16) Fagor Automation , S. Coop
San Andres s/n
Guipuzcoa 20500
ES

00-0B-C8 (hex) AirFlow
Networks
000BC8 (base 16) AirFlow Networks
444 Castro St

Mountain View Ca 94041
US

00-0B-CE (hex) Free2move AB
000BCE (base 16) Free2move AB
Sperlingsgatan 7
Halmstad Halland 30248
SE

00-0B-CF (hex) AGFA NDT INC.
000BCF (base 16) AGFA NDT INC.
50 Industrial Park Road
Lewistown PA 17044
US

00-0B-C3 (hex) Multiplex, Inc.
000BC3 (base 16) Multiplex, Inc.
5000 Hadley Rd.
S. Plainfield NJ 07040
US

00-0B-BE (hex) Cisco Systems, Inc
000BBE (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0B-E0 (hex) SercoNet Ltd.
000BE0 (base 16) SercoNet Ltd.
16 Ha'haroshet st.
Ra'anana 43657
IL

00-0B-40 (hex) Cambridge Industries Group (CIG)
000B40 (base 16) Cambridge Industries Group (CIG)
2560 Junction Avenue
San Jose 95134
US

00-0B-44 (hex) Concord Idea Corp.
000B44 (base 16) Concord Idea Corp.
498 Markland
Street, Unit 2
Markham Ontario L6C 1Z6
CA

00-0B-42 (hex) commax Co., Ltd.
000B42 (base 16) commax Co., Ltd.

513-11, Sangdaewon-Dong, Jungwon-Ku
Sungnam-City Kyunggi-Do 462-120
KR

00-0B-47 (hex) Advanced Energy
000B47 (base 16) Advanced Energy
1625 Sharp Point Drive
Fort Collins Colorado 80525
US

00-0B-7F (hex) Align Engineering LLC
000B7F (base 16) Align Engineering LLC
245 Highlands Drive
Friday Harbor WA 98250
US

00-0B-85 (hex) Cisco Systems, Inc
000B85 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0B-81 (hex) Kaparel Corporation
000B81 (base 16) Kaparel Corporation
97 Randall Drive
Waterloo Ontario N2V-1C5
CA

00-0B-A1 (hex) Fujikura Solutions Ltd.
000BA1 (base 16) Fujikura Solutions Ltd.
1565-6,Shirakusadai,Fukaya-shi
Saitama-ken 369-1106
JP

00-0B-A6 (hex) Miyakawa Electric Works Ltd.
000BA6 (base 16) Miyakawa
Electric Works Ltd.
2-1-6,
Yokohama Kanagawa 222-0001
JP

00-0B-93 (hex) Ritter Elektronik
000B93 (base 16) Ritter Elektronik
Leverkuser Straße 65
Remscheid NRW 42897
DE

00-0B-9B (hex) Sirius System Co, Ltd.

000B9B (base 16) Sirius System Co, Ltd.
3-27 Funado-cho
Ashiya Hyogo 659-0093
JP

00-0B-82 (hex) Grandstream Networks, Inc.
000B82 (base 16) Grandstream Networks, Inc.
1297 Beacon Street
Brookline MA 02446
US

00-0B-6E (hex) Neff Instrument Corp.
000B6E (base 16) Neff Instrument Corp.
700 South Myrtle Ave.
Monrovia CA 91016
US

00-0B-72 (hex) Lawo AG
000B72 (base 16) Lawo AG
Am Oberwald 8
Rastatt Baden-Württemberg 76437
DE

00-0B-78 (hex) TAIFATECH INC.
000B78 (base 16) TAIFATECH INC.
8F-1 No.289, Sec.2 Guangfu Rd.
Hsinchu 300
TW

00-0B-6C (hex) Sychip Inc.
000B6C (base 16) Sychip Inc.
2805 N. Dallas Parkway Suite
400
Plano Texas 75093
US

00-0B-8E (hex) Ascent Corporation
000B8E (base 16) Ascent Corporation
2-16-19, Kawaraya-machi, Chuo-Ku,
Osaka-City Osaka-Pref 542-0066
JP

00-0B-8F (hex) AKITA ELECTRONICS SYSTEMS CO.,LTD.
000B8F (base 16) AKITA ELECTRONICS SYSTEMS CO.,LTD.
85,AZA USHIRONO,AIKAWA,YUWA-MACHI
KAWABE-GUN AKITA-KEN 010-1231
JP

00-0B-8D (hex) Avvio Networks
000B8D (base 16) Avvio Networks
11 Donovan Dr
Bedford MA 01730
US

00-0B-BD (hex) Connexionz Limited
000BBD (base 16) Connexionz Limited
1 Show Place
Christchurch
NZ

00-0B-A8 (hex) HANBACK ELECTRONICS CO., LTD.
000BA8 (base 16) HANBACK ELECTRONICS CO., LTD.
306-7, Galma-dong, Seo-gu
Daejeon 302-171
KR

00-0B-A9 (hex) CloudShield Technologies, Inc.
000BA9 (base 16) CloudShield Technologies, Inc.
212 Gilbraltar Drive
Sunnyvale CA 94089
US

00-0B-5A (hex) HyperEdge
000B5A (base
16) HyperEdge
333 Pierce Road Suite #200
Itasca IL 60143
US

00-0B-4E (hex) Communications & Power Industries
000B4E (base 16) Communications & Power Industries
1000 Klein Road
Plano TX 75074
US

00-0B-4D (hex) Emuzed
000B4D (base 16) Emuzed
46750 Lakeview Boulevard
Fremont California 94538
US

00-0B-3D (hex) CONTAL OK Ltd.
000B3D (base 16) CONTAL OK Ltd.
Frana Mraza 2/289
Zilina 01124
SK

00-0B-31 (hex) Yantai ZhiYang Scientific and technology industry CO., LTD
000B31 (base 16) Yantai ZhiYang Scientific and technology industry CO., LTD
5F-4, NO. 64, Gong-Jian Rd.
Hsi-Chih City Taipei County 221
CN

00-91-D6 (hex) Crystal Group, Inc.
0091D6 (base 16) Crystal Group, Inc.
850 Kacena Rd.
Hiawatha IA 52233
US

00-0B-0F (hex) Bosch Rexroth
000B0F (base 16) Bosch Rexroth
Luchthavenweg 20
Eindhoven Noord Brabant NL5657 EB
NL

00-0B-0C (hex) Agile
Systems Inc.
000B0C (base 16) Agile Systems Inc.
575 Kumpf Drive
Waterloo Ontario N2V 1K3
CA

00-0B-0A (hex) dBm Optics
000B0A (base 16) dBm Optics
300 S. Public Road
Lafayette Colorado 80026
US

00-0B-09 (hex) Ifoundry Systems Singapore
000B09 (base 16) Ifoundry Systems Singapore
Block 1, Unit 101B, Innovation Centre, 1
637722
SG

00-0B-1D (hex) LayerZero Power Systems, Inc.
000B1D (base 16) LayerZero Power Systems, Inc.
3559 Townley Road
Shaker Heights OH 44122-5156
US

00-0B-19 (hex) Vernier Networks, Inc.
000B19 (base 16) Vernier Networks, Inc.
490 E. Middlefield Road
Mountain View CA 94043

US

00-0B-16 (hex) Communication Machinery Corporation
000B16 (base 16) Communication Machinery Corporation
402 E. Gutierrez St.
Santa Barbara CA 93101
US

00-0B-12 (hex) NURI Telecom Co., Ltd.
000B12 (base 16) NURI Telecom Co., Ltd.
B-10F Woolim Lion's
Valley 371-28
Geuncheon-gu Seoul 153-803
KR

00-0A-D2 (hex) JEPICO Corporation
000AD2 (base 16) JEPICO Corporation
Nishi-shinjyuku2-7-1
Shinjyuku-ku Tokyo 163-0729
JP

00-0A-C5 (hex) Color Kinetics
000AC5 (base 16) Color Kinetics
10 Milk Street
Boston Masachusetts 02108
US

00-0A-BD (hex) Rupprecht & Patashnick Co.
000ABD (base 16) Rupprecht & Patashnick Co.
25 Corporate Circle
Albany NY 12203
US

00-0A-A5 (hex) MAXLINK INDUSTRIES LIMITED
000AA5 (base 16) MAXLINK INDUSTRIES LIMITED
29A SHENZHEN SPECIAL ZONE
SHENZHEN GUANGDONG 518009
CN

00-0A-A9 (hex) Brooks Automation GmbH
000AA9 (base 16) Brooks Automation GmbH
Goeschwitzer Strasse 25
Jena Thuringia 07745
DE

00-0A-A2 (hex) SYSTEK INC.
000AA2 (base 16) SYSTEK INC.
JCOM BUILDING 402, OJEON-DONG 124-4,

UIWANG-SI GYUNGGI-DO 437-070
KR

00-0A-CB (hex) XPAK MSA Group
000ACB (base 16) XPAK
MSA Group
Care of: Molex Fiber Optics
Downers Grove IL 60515
US

00-0A-D5 (hex) Brainchild Electronic Co., Ltd.
000AD5 (base 16) Brainchild Electronic Co., Ltd.
No.209, Chung Yang Rd.,
Taipei 115
TW

00-0A-D6 (hex) BeamReach Networks
000AD6 (base 16) BeamReach Networks
755 North Mathilda Ave
Sunnyvale California 94086
US

00-0B-2F (hex) bplan GmbH
000B2F (base 16) bplan GmbH
Industriestrasse 23b
Steinbach Hessen 61449
DE

00-0B-24 (hex) AirLogic
000B24 (base 16) AirLogic
807-1, Bundangtechnopark D, 151,
Sungnam-Si Kyungki-Do 463-760
KR

00-0A-FE (hex) NovaPal Ltd
000AFE (base 16) NovaPal Ltd
Floor 6
Ealing London W5 2ST
GB

00-0A-FD (hex) Kentec Electronics
000AFD (base 16) Kentec Electronics
620 Allendale Rd
King of Prussia PA 19406
US

00-0A-EF (hex) OTRUM ASA
000AEF (base 16) OTRUM ASA

Brattekleiv
Færvik N-4818
NO

00-0A-E5
(hex) ScottCare Corporation
000AE5 (base 16) ScottCare Corporation
4791 West 150th Street
Cleveland Ohio 44135
US

00-0A-B0 (hex) LOYTEC electronics GmbH
000AB0 (base 16) LOYTEC electronics GmbH
Stolzenthalergasse 24/3
Vienna 1080
AT

00-0A-B5 (hex) Digital Electronic Network
000AB5 (base 16) Digital Electronic Network
8 rue du sacré coeur
Saint Laurent sur Sevre Vendee 85290
FR

00-0A-3A (hex) J-THREE INTERNATIONAL Holding Co., Ltd.
000A3A (base 16) J-THREE INTERNATIONAL Holding Co., Ltd.
No. 1, Yu-3 Rd., Youth Industrial Park
Yang-mei, Taoyuan Hsien 326
TW

00-0A-47 (hex) Allied Vision Technologies
000A47 (base 16) Allied Vision Technologies
Taschenweg 2a
Stadtroda Thüringen 07646
DE

00-0A-44 (hex) Avery Dennison Deutschland GmbH
000A44 (base 16) Avery Dennison Deutschland GmbH
Ohmstraße 3
Eching 85386
DE

00-0A-3C (hex) Enerpoint Ltd.
000A3C
(base 16) Enerpoint Ltd.
Kaivopuistontie 33
Rauma 26100
FI

00-0A-40 (hex) Crown Audio -- Harmanm International
000A40 (base 16) Crown Audio -- Harmanm International
1718 W. Mishawaka Rd
Elkhart IN 46517
US

00-0A-9B (hex) TB Group Inc
000A9B (base 16) TB Group Inc
4F NREG Hongo 3-chome Bldg., 3-26-6, Hngo, Bunkyo-ku,
Tokyo 113-003
JP

00-0A-84 (hex) Rainsun Enterprise Co., Ltd.
000A84 (base 16) Rainsun Enterprise Co., Ltd.
No.14-3 , Lane 235, Ho-Chen Road
ShinDian City TAIPEI 231
TW

00-0A-7E (hex) The Advantage Group
000A7E (base 16) The Advantage Group
1610 Des Peres Road
St. Louis MO 63131
US

00-0A-73 (hex) Scientific Atlanta
000A73 (base 16) Scientific Atlanta
5030 Sugarloaf Parkway
Lawrenceville Ga 30042
US

00-0A-69 (hex) SUNNY bell Technology Co., Ltd.
000A69 (base 16) SUNNY bell Technology Co., Ltd.
#502 BUWON B/D 107-45 BANPO-DONG
SEOUL
137-806
KR

00-0A-6C (hex) Walchem Corporation
000A6C (base 16) Walchem Corporation
5 Boynton Road
Holliston MA 01746
US

00-0A-6B (hex) Tadiran Telecom Business Systems LTD
000A6B (base 16) Tadiran Telecom Business Systems LTD
18 Hasivim St.
Petach Tikva 49105
IL

00-0A-5F (hex) almedio inc.
000A5F (base 16) almedio inc.
32-13, sakae-cho 2 chome
higashimurayama-shi tokyo 189-0013
JP

00-0A-28 (hex) Motorola
000A28 (base 16) Motorola
600 N. US Hwy 45
Libertyville IL 60048
US

00-0A-26 (hex) CEIA S.p.A.
000A26 (base 16) CEIA S.p.A.
Zona Industriale di Viciomaggio 54
Arezzo AR 52040
IT

00-0A-29 (hex) Pan Dacom Networking AG
000A29 (base 16) Pan Dacom Networking AG
Dreieich Plaza 1B
Dreieich Hessen D-63303
DE

00-0A-1D (hex) Optical Communications Products Inc.
000A1D (base 16) Optical Communications Products Inc.
20961 Knapp
St.
Chatsworth CA 91311
US

00-0A-61 (hex) Cellinx Systems Inc.
000A61 (base 16) Cellinx Systems Inc.
408 Woosung Character199 officetel
Seoul 135-856
KR

00-0A-5B (hex) Power-One as
000A5B (base 16) Power-One as
P.O. Box 1543
Drammen 3007
NO

00-0A-55 (hex) MARKEM Corporation
000A55 (base 16) MARKEM Corporation
150 Congress Street
Keene NH 03431

US

00-0A-91 (hex) HemoCue AB
000A91 (base 16) HemoCue AB
Box 1204
Ängelholm Skåne län 26223
SE

00-0A-98 (hex) M+F Gwinner GmbH & Co
000A98 (base 16) M+F Gwinner GmbH & Co
Weidenbaumsweg 91 a
Hamburg 21029
DE

00-0A-78 (hex) OLITEC
000A78 (base 16) OLITEC
B.P. 592
NANCY cedex 54009
FR

00-0A-7B (hex) Cornelius Consult
000A7B (base 16) Cornelius Consult
Im Vogelsang 21
Hattingen NRW 45527
DE

00-0A-4C (hex) Molecular Devices Corporation
000A4C (base 16) Molecular Devices
Corporation
1311 Orleans Drive
Sunnyvale CA 94089
US

00-0A-4D (hex) Noritz Corporation
000A4D (base 16) Noritz Corporation
5 Minami-Futami,
Akashi-shi Hyogo 674-0093
JP

00-0A-16 (hex) Lassen Research
000A16 (base 16) Lassen Research
31695 Forward Road
Manton CA 96059
US

00-0A-18 (hex) Vichel Inc.
000A18 (base 16) Vichel Inc.
3F Jang Bldg. 92-6 Yangjae-dong, Secho-g

Seoul 137-130
KR

00-09-ED (hex) CipherOptics
0009ED (base 16) CipherOptics
701 Corporate Center Drive
Raleigh North Carolina 27607
US

00-09-F2 (hex) Cohu, Inc., Electronics Division
0009F2 (base 16) Cohu, Inc., Electronics Division
3912 Calle Fortunada
San Diego CA 92123
US

00-09-DC (hex) Galaxis Technology AG
0009DC (base 16) Galaxis Technology AG
Steinmetzstraße 7
Lübeck Schleswig-Holstein 23556
DE

00-09-DD (hex) Mavin Technology Inc.
0009DD (base 16) Mavin
Technology Inc.
Room 305, Bldg. 52 No. 195-28
Chutung, Hsinchu 310
TW

00-0A-06 (hex) Teledex LLC
000A06 (base 16) Teledex LLC
6311 San Ignacio Avenue
San Jose CA 95119
US

00-0A-0D (hex) Amphenol
000A0D (base 16) Amphenol
Holzhauser Strasse 175
Berlin 13509
DE

00-09-F8 (hex) UNIMO TECHNOLOGY CO., LTD.
0009F8 (base 16) UNIMO TECHNOLOGY CO., LTD.
BANGBAE DONG 479-12
SEOUL 137-820
KR

00-09-FF (hex) X.net 2000 GmbH
0009FF (base 16) X.net 2000 GmbH

Koenigsberger Str. 2c
Reinheim 64354
DE

00-0A-03 (hex) ENDESA SERVICIOS, S.L.
000A03 (base 16) ENDESA SERVICIOS, S.L.
AVGDA PARAL.LEL, 51
BARCELONA 08004
ES

00-09-B5 (hex) 3J Tech. Co., Ltd.
0009B5 (base 16) 3J Tech. Co., Ltd.
342 Fushing N. Rd., 2F, Taipei, Taiwan
Taipei 104
TW

00-09-B8 (hex) Entise Systems
0009B8 (base 16) Entise Systems
10095 Judy Avenue
Cupertino CA 95014
US

00-09-AF
(hex) e-generis
0009AF (base 16) e-generis
13 rue du chene germain
cesson sevigne 35510
FR

00-09-AD (hex) HYUNDAI SYSCOMM, INC.
0009AD (base 16) HYUNDAI SYSCOMM, INC.
SAN 136-1, AMI-RI, BUBAL-EUB
ICHON KYOUNGKI-DO 467-701
KR

00-09-A9 (hex) Ikanos Communications
0009A9 (base 16) Ikanos Communications
47709 Fremont Blvd
Fremont CA 94538
US

00-09-9F (hex) VIDEX INC.
00099F (base 16) VIDEX INC.
1105 NE Circle Blvd
Corvallis OR 97330
US

00-09-A2 (hex) Interface Co., Ltd.

0009A2 (base 16) Interface Co., Ltd.
2-5-12-201 Kyonancho
Musashino-city Tokyo 180-0023
JP

00-09-A1 (hex) Telewise Communications, Inc.
0009A1 (base 16) Telewise Communications, Inc.
2050 Ringwood Avenue
San Jose CA 95131
US

00-09-BD (hex) Epygi Technologies, Ltd.
0009BD (base 16) Epygi Technologies, Ltd.
5040 Addison Circle
Addison Texas 75001
US

00-09-C2
(hex) Onity, Inc.
0009C2 (base 16) Onity, Inc.
2232 Northmont Parkway
Duluth GA 30096
US

00-09-C3 (hex) NETAS
0009C3 (base 16) NETAS
Alemdag Cad. No 171
ISTANBUL 81244
TR

00-09-FE (hex) Daisy Technologies, Inc.
0009FE (base 16) Daisy Technologies, Inc.
1209 Orange Street
City of Wilmington DE 19801
US

00-09-EB (hex) HuMANDATA LTD.
0009EB (base 16) HuMANDATA LTD.
1-2-10
Ibaraki Osaka 567-0034
JP

00-09-E8 (hex) Cisco Systems, Inc
0009E8 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-09-E9 (hex) Cisco Systems, Inc
0009E9 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-09-CE (hex) SpaceBridge Semiconductor Corp.
0009CE (base 16) SpaceBridge Semiconductor Corp.
115 rue Champlain
Hull Quebec J8X3R1
CA

00-09-C6 (hex) Visionics Corporation
0009C6 (base 16) Visionics
Corporation
5600 Rowland Road
Minnetonka MN 55343
US

00-09-D1 (hex) SERANOA NETWORKS INC
0009D1 (base 16) SERANOA NETWORKS INC
CONCORD OFFICE CENTER
CONCORD MA 01742
US

00-09-6B (hex) IBM Corp
00096B (base 16) IBM Corp
3039 E Cornwallis Road
Research Triangle Park NC 27709-2195
US

00-09-6D (hex) Powernet Technologies Corp.
00096D (base 16) Powernet Technologies Corp.
371-51, Gasan-Dong Kumchon-Gu,
Seoul 153-803
KR

00-09-64 (hex) Hi-Techniques, Inc.
000964 (base 16) Hi-Techniques, Inc.
2515 Frazier Ave.
Madison WI 53713-1505
US

00-09-65 (hex) HyunJu Computer Co., Ltd.
000965 (base 16) HyunJu Computer Co., Ltd.
222-22, Hyunju B/D, Guro 3 Dong, Gurogu
Seoul 152-848
KR

00-09-6F (hex) Beijing Zhongqing Elegant Tech. Corp.,Limited
00096F (base 16) Beijing Zhongqing Elegant Tech. Corp.,Limited
Rm.508, A-Building, Shangdi Digital Scie
Beijing
100084
CN

00-09-5E (hex) Masstech Group Inc.
00095E (base 16) Masstech Group Inc.
2 East Beaver Creek Rd.
Richmond Hill Ontario L4B 2N3
CA

00-09-32 (hex) Omnilux
000932 (base 16) Omnilux
130 W. Union St.
Pasadena CA 91103
US

00-09-29 (hex) Sanyo Industries (UK) Limited
000929 (base 16) Sanyo Industries (UK) Limited
School Road
Lowestoft Suffolk NR33 9NA
GB

00-09-28 (hex) Telecore
000928 (base 16) Telecore
1800 North Glenville
Richardson TX 75081
US

00-09-7D (hex) SecWell Networks Oy
00097D (base 16) SecWell Networks Oy
P.O.BOX 174
Tampere 33101
FI

00-09-76 (hex) Datasoft ISDN Systems GmbH
000976 (base 16) Datasoft ISDN Systems GmbH
Schillerplatz 3
St. Poelten Lower Austria 3100
AT

00-09-7A (hex) Louis Design Labs.
00097A (base 16) Louis Design Labs.
2F,NO 4, Lane 497, Chung-Cheng Rd.,Hsin-
Hsin-Tien Taipei Hsien 231

TW

00-09-1B
(hex) Digital Generation Inc.
00091B (base 16) Digital Generation Inc.
5F, Ho-Sam B/D, #30-3, Bongchun6-Dong
Kwanak-Ku, Seoul 151-089
KR

00-09-1C (hex) CacheVision, Inc
00091C (base 16) CacheVision, Inc
1990 Concourse Drive
San Jose CA 95131
US

00-09-1A (hex) Macat Optics & Electronics Co., Ltd.
00091A (base 16) Macat Optics & Electronics Co., Ltd.
15/F., Macat Center, No. 63 Macat Road
Huizhou Guangdong 516001
CN

00-09-39 (hex) ShibaSoku Co.,Ltd.
000939 (base 16) ShibaSoku Co.,Ltd.
6-8 Shinbashi 4-chome
Minato-ku Tokyo 105-0004
JP

00-09-33 (hex) Ophit Co.Ltd.
000933 (base 16) Ophit Co.Ltd.
3F. Suntechnovil, 5-27 Mangpo-Dong ,
Kyungki-Do 137-070
KR

00-09-4F (hex) elmegt GmbH & Co. KG
00094F (base 16) elmegt GmbH & Co. KG
Kommunikationstechnik
Peine Niedersachsen D-31228
DE

00-09-43 (hex) Cisco Systems, Inc
000943 (base 16) Cisco Systems,
Inc
80 West Tasman Drive
San Jose CA 94568
US

00-09-59 (hex) Sitecsoft
000959 (base 16) Sitecsoft

7th Gugu BD. 145-18 Samsung-Dong
Seoul Seoul 135-090
KR

00-09-57 (hex) Supercaller, Inc.
000957 (base 16) Supercaller, Inc.
101 Saginaw Drive
Redwood City CA 94063
US

00-09-82 (hex) Loewe Opta GmbH
000982 (base 16) Loewe Opta GmbH
Industriestrasse 11
Kronach 96317
DE

00-09-83 (hex) GlobalTop Technology, Inc.
000983 (base 16) GlobalTop Technology, Inc.
#16 Nan-Ke 9th Road
Tainan 741
TW

00-08-B0 (hex) HUBER+SUHNER BKtel GmbH
0008B0 (base 16) HUBER+SUHNER BKtel GmbH
Benzstraße 4
41836 Hückelhoven-Baal NRW 41836
DE

00-08-AC (hex) BST GmbH
0008AC (base 16) BST GmbH
Remusweg 1
Bielefeld Nordrhein-Westfalen 33729
DE

00-08-AA (hex) KARAM
0008AA (base 16) KARAM
98-3, Hankangro 2-KA, Yongsan
Seoul 140-012
KR

00-08-AB
(hex) EnerLinx.com, Inc.
0008AB (base 16) EnerLinx.com, Inc.
3965 South Woodhill Lane
New Berlin WI 53151
US

00-08-AD (hex) Toyo-Linx Co., Ltd.

0008AD (base 16) Toyo-Linx Co., Ltd.
Hirakawa-Cho, Chiyada-ku,
Tokyo 102-0093
JP

00-08-79 (hex) CEM Corporation
000879 (base 16) CEM Corporation
P.O. Box 200
Matthews NC 28106
US

00-08-7D (hex) Cisco Systems, Inc
00087D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-08-75 (hex) Acorp Electronics Corp.
000875 (base 16) Acorp Electronics Corp.
8F, No.111-6,Shing Teh Rd,
San Chung Taipei Hsien 241
TW

00-08-6F (hex) Resources Computer Network Ltd.
00086F (base 16) Resources Computer Network Ltd.
Rm 324, Tech Centre, 72 Tat Chee Ave.,

HK

00-08-67 (hex) Uptime Devices
000867 (base 16) Uptime Devices
11724 Dunfries Lane
Austin Texas 78754
US

00-08-88 (hex) OULLIM
Information Technology Inc,.
000888 (base 16) OULLIM Information Technology Inc,.
a-10th FL,. IT Venture Tower,
Seoul 138-803
KR

00-08-85 (hex) EMS Dr. Thomas Wünsche
000885 (base 16) EMS Dr. Thomas Wünsche
Sonnenhang 3

DE

00-08-72 (hex) Sorenson Communications
000872 (base 16) Sorenson Communications
4192 South Riverboat Road
Salt Lake City UT 84123
US

00-08-7C (hex) Cisco Systems, Inc
00087C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-08-D2 (hex) ZOOM Networks Inc.
0008D2 (base 16) ZOOM Networks Inc.
13F,XinLuDao Building,No.1175,Nanshan Ro
Shen Zhen GuangDong Province 518052
US

00-08-C5 (hex) Liontech Co., Ltd.
0008C5 (base 16) Liontech Co., Ltd.
306, Wooyoung Techno Center, 273-15,
Seoul 133-831
KR

00-08-DF (hex) Alistel Inc.
0008DF (base 16) Alistel Inc.
Midori Bldg. 2F
Yokohama Kanagawa
222-0001
JP

00-08-DB (hex) Corrigent Systems
0008DB (base 16) Corrigent Systems
126 Yigal Alon
Tel Aviv 67443
IL

00-08-D8 (hex) Dowkey Microwave
0008D8 (base 16) Dowkey Microwave
4822 McGrath Street
Ventura Ca 93003
US

00-08-F2 (hex) C&S Technology
0008F2 (base 16) C&S Technology
C&S Venture Bldg., NonHyun-Dong,
SEOUL 135-829
KR

00-08-EA (hex) Motion Control Engineering, Inc
0008EA (base 16) Motion Control Engineering, Inc
11380 White Rock Road
Rancho Cordova CA 95742
US

00-08-ED (hex) ST&T Instrument Corp.
0008ED (base 16) ST&T Instrument Corp.
16 Shing-Gong Road, Yung-Kung Industrial
Yung-Kung Tainan 710
TW

00-08-9A (hex) Alcatel Microelectronics
00089A (base 16) Alcatel Microelectronics
Excelsiorlaan 44-46
B-1930 Zavantem
BE

00-08-A1 (hex) CNet Technology Inc.
0008A1 (base 16) CNet Technology Inc.
No.15, Park Avenue II, Science-Based
Ind
Hsin-Chu 300
TW

00-08-93 (hex) LE INFORMATION COMMUNICATION INC.
000893 (base 16) LE INFORMATION COMMUNICATION INC.
Rm, 4501, DA-Dong Chungang Circulation C
Seoul 152-721
KR

00-08-CA (hex) TwinHan Technology Co.,Ltd
0008CA (base 16) TwinHan Technology Co.,Ltd
13F-6,No 79,Sec 1,Hsin Tai Wu RD.,Hsi-Ch
Taipei Hsien 221
TW

00-08-B6 (hex) RouteFree, Inc.
0008B6 (base 16) RouteFree, Inc.
3400 Hillview Ave., Building 5
Palo Alto CA 94304
US

00-09-02 (hex) Redline Communications Inc.
000902 (base 16) Redline Communications Inc.
302 Town Centre Blvd
Markham ON L3R 0E8

CA

00-08-FA (hex) KEB Automation KG
0008FA (base 16) KEB Automation KG
Südstraße 38
Barntrup NRW D-32683
DE

00-07-EE (hex) telco Informationssysteme GmbH
0007EE (base 16) telco Informationssysteme GmbH
Schulstrasse 38

DE

00-07-E2 (hex) Bitworks, Inc.
0007E2
(base 16) Bitworks, Inc.
#1 Bitworks Way
Prairie Grove AR 72753
US

00-07-E6 (hex) edgeflow Canada Inc.
0007E6 (base 16) edgeflow Canada Inc.
329 March Road
K2K 2E1
CA

00-07-E5 (hex) Coup Corporation
0007E5 (base 16) Coup Corporation
1-24-4 Marusen 2nd Bld. 4F,
Tokyo
JP

00-07-DE (hex) eCopilt AB
0007DE (base 16) eCopilt AB
Veddestavagen 24

SE

00-07-DF (hex) Vbrick Systems Inc.
0007DF (base 16) Vbrick Systems Inc.
12 Beaumont Road
Wallingford CT 06492
US

00-07-C5 (hex) Gcom, Inc.
0007C5 (base 16) Gcom, Inc.
1800 Woodfield Dr.

Savoy IL 61874
US

00-07-C8 (hex) Brain21, Inc.
0007C8 (base 16) Brain21, Inc.
19F Mesa B/D, 204 Hoihyun-Dong
Seoul 100-051
KR

00-07-C1 (hex) Overture Networks, Inc.
0007C1 (base 16) Overture Networks, Inc.
637 Davis Drive
Morrisville NC 227560
US

00-07-C2 (hex) Netsys Telecom
0007C2
(base 16) Netsys Telecom
4F, KyungNam B/D, 830-48, YeokSam-Dong
Seoul 135-080
KR

00-08-16 (hex) Bluelon ApS
000816 (base 16) Bluelon ApS
Nattergalevej 6

DK

00-08-11 (hex) VOIX Corporation
000811 (base 16) VOIX Corporation
1991-3 4th Floor Top's Venture Tower
Seoul 138-090
KR

00-08-06 (hex) Raonet Systems, Inc.
000806 (base 16) Raonet Systems, Inc.
West Wing 14F, IT Venture Tower 78
Seoul 138-803
KR

00-07-F8 (hex) ITDevices, Inc.
0007F8 (base 16) ITDevices, Inc.
606 110th Ave. NE
Bellevue WA 98004
US

00-07-F3 (hex) Thinkengine Networks
0007F3 (base 16) Thinkengine Networks

100 Nickerson Road
Marlborough MA 01752
US

00-05-F9 (hex) TOA Corporation
0005F9 (base 16) TOA Corporation
2-1 Takamatsu-cho,
Hyogo 665-0043
JP

00-07-CA (hex) Creatix Polymedia Ges Fur Kommunikaitonssysteme
0007CA (base 16) Creatix Polymedia Ges
Fur Kommunikaitonssysteme
Heinrich-Barth-Straße 3

DE

00-08-26 (hex) Colorado Med Tech
000826 (base 16) Colorado Med Tech
6175 Longbow Dr.
Boulder CO 80301
US

00-08-1C (hex) @pos.com
00081C (base 16) @pos.com
3051 North First Street
San Jose CA 95134
US

00-08-5E (hex) PCO AG
00085E (base 16) PCO AG
Donaupark 11

DE

00-08-56 (hex) Gamatronic Electronic Industries Ltd.
000856 (base 16) Gamatronic Electronic Industries Ltd.
Hartum Street 14

IL

00-08-53 (hex) Schleicher GmbH & Co. Relaiswerke KG
000853 (base 16) Schleicher GmbH & Co. Relaiswerke KG
Pichelswerderstrasse 3-5

DE

00-07-44 (hex) Unico, Inc.

000744 (base 16) Unico, Inc.
3725 Nicholson Rd.
Franksville WI 53126
US

00-07-49 (hex) CENiX Inc.
000749 (base 16) CENiX Inc.
5141 California Avenue
Irvine CA 92612
US

00-07-39 (hex) Scotty Group Austria Gmbh
000739
(base 16) Scotty Group Austria Gmbh
Teslastrasse 4
8074 Grambach 8074
AT

00-07-3D (hex) Nanjing Postel Telecommunications Co., Ltd.
00073D (base 16) Nanjing Postel Telecommunications Co., Ltd.
No. 187, ShengZhou Road,
210004
CN

00-07-35 (hex) Flarion Technologies, Inc.
000735 (base 16) Flarion Technologies, Inc.
135 Route 202/206 South
Bedminster NJ 07921
US

00-07-4E (hex) IPFRONT Inc
00074E (base 16) IPFRONT Inc
4F ALT Bldg.,
Tokyo 101-0021
JP

00-07-52 (hex) Rhythm Watch Co., Ltd.
000752 (base 16) Rhythm Watch Co., Ltd.
321 Shinshukushinden, Showa-Machi,
344-0196
JP

00-07-4F (hex) Cisco Systems, Inc
00074F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-07-43 (hex) Chelsio Communications
000743 (base 16) Chelsio Communications
170 S. Whismon Rd.
Mountain View CA 94041-1512
US

00-07-47
(hex) Mecalc
000747 (base 16) Mecalc
PO Box 7958

ZA

00-07-AE (hex) Britestream Networks, Inc.
0007AE (base 16) Britestream Networks, Inc.
12401 Research Blvd.
Austin TX 78759
US

00-07-B1 (hex) Equator Technologies
0007B1 (base 16) Equator Technologies
1300 White Oaks Rd.
Campbell CA 95008
US

00-07-A7 (hex) A-Z Inc.
0007A7 (base 16) A-Z Inc.
5-5-17 Kamikoushien

JP

00-07-A6 (hex) Leviton Manufacturing Co., Inc.
0007A6 (base 16) Leviton Manufacturing Co., Inc.
4330 Michoud Blvd
New Orleans LA 70129
US

00-07-A3 (hex) Ositis Software, Inc.
0007A3 (base 16) Ositis Software, Inc.
6120 Stoneridge Mall Road
Pleasanton CA 94588
US

00-07-9A (hex) Verint Systems Inc
00079A (base 16) Verint Systems Inc
1800 Berlier, Suite 440
Laval, Quebec H7L 4S4
CA

00-07-74 (hex) GuangZhou Thinker Technology Co. Ltd.
000774 (base 16) GuangZhou
Thinker Technology Co. Ltd.
109 Zhongshan Ave., Tianhe District
510630
CN

00-07-98 (hex) Selea SRL
000798 (base 16) Selea SRL
Via A. Moro No. 69

IT

00-07-91 (hex) International Data Communications, Inc.
000791 (base 16) International Data Communications, Inc.
47873 Fremont Blvd.
Fremont CA 04538
US

00-07-79 (hex) Sungil Telecom Co., Ltd.
000779 (base 16) Sungil Telecom Co., Ltd.
#321, Gongdan-Dong,
730-030
KR

00-07-7E (hex) Elrest GmbH
00077E (base 16) Elrest GmbH
Leibnizstraße 10

DE

00-07-78 (hex) GERSTEL GmbH & Co. KG
000778 (base 16) GERSTEL GmbH & Co. KG
Eberhard-Gerstel-Platz 1
Mülheim an der Ruhr
DE

00-07-6D (hex) Flexlight Networks
00076D (base 16) Flexlight Networks
15 Atir Yeda St.

IL

00-07-8F (hex) Emkay Innovative Products
00078F (base 16) Emkay Innovative Products
53, Pao Hsing Rd., Hsintien City
Taipei

TW

00-07-82 (hex) Oracle Corporation
000782 (base 16) Oracle Corporation
500 Oracle Parkway
Redwood Shores CA 94065
US

00-07-86 (hex) Wireless Networks Inc.
000786 (base 16) Wireless Networks Inc.
#300, 3016 Fifth Ave. NE
T2A 6K4
CA

00-07-22 (hex) The Nielsen Company
000722 (base 16) The Nielsen Company
501 Brooker Creek Blvd.
Oldsmar FL 34677
US

00-07-1F (hex) European Systems Integration
00071F (base 16) European Systems Integration
455 Promenade Des Anglas

FR

00-07-21 (hex) Formac Elektronik GmbH
000721 (base 16) Formac Elektronik GmbH
Dofstraße 33

DE

00-07-5E (hex) Ametek Power Instruments
00075E (base 16) Ametek Power Instruments
4050 NW 121 Avenue
Coral Springs FL 33065
US

00-07-60 (hex) TOMIS Information & Telecom Corp.
000760 (base 16) TOMIS Information & Telecom Corp.
Youngdeungpo telephone office
- extensio
Seoul
KR

00-07-30 (hex) Hutchison OPTEL Telecom Technology Co., Ltd.
000730 (base 16) Hutchison OPTEL Telecom Technology Co., Ltd.

No. 28 Xinwai Street
Beijing
CN

00-06-E5 (hex) Fujian Newland Computer Ltd. Co.
0006E5 (base 16) Fujian Newland Computer Ltd. Co.
141F Sunshine Holiday Hotel
Fuzhou Fujian 350005
CN

00-06-DE (hex) Flash Technology
0006DE (base 16) Flash Technology
P.O. Box 681509
Franklin TN 37068
US

00-06-DF (hex) AIDONIC Corporation
0006DF (base 16) AIDONIC Corporation
2-7-10 Otsuka, Bunkyo-ku,
Tokyo, 112-0012
JP

00-06-DD (hex) AT & T Laboratories - Cambridge Ltd
0006DD (base 16) AT & T Laboratories - Cambridge Ltd
24a Trumpington Street
ENGLAND
GB

00-06-D1 (hex) Tahoe Networks, Inc.
0006D1 (base 16) Tahoe Networks, Inc.
3052 Orchard Drive
San Jose CA 95134
US

00-06-D4 (hex) Interactive Objects, Inc.
0006D4
(base 16) Interactive Objects, Inc.
12600 SE 38th St.
Bellevue WA 98006
US

00-06-CE (hex) DATENO
0006CE (base 16) DATENO
Rue Amiral Berenger

FR

00-06-C5 (hex) INNOVI Technologies Limited

0006C5 (base 16) INNOVI Technologies Limited
31st Floor, China Online Centre
Wanchai
HK

00-06-C6 (hex) lesswire AG
0006C6 (base 16) lesswire AG
Im Technologiepark 25

DE

00-06-B7 (hex) TELEM GmbH
0006B7 (base 16) TELEM GmbH
Lise-Meitner-Allee 31

DE

00-06-BC (hex) Macrolink, Inc.
0006BC (base 16) Macrolink, Inc.
1500 N Kellogg Dr.
Anaheim CA 92807
US

00-06-C2 (hex) Smartmatic Corporation
0006C2 (base 16) Smartmatic Corporation
6400 Congress Ave., Suite 1300
Boca Raton FL 33487
US

00-06-F0 (hex) Digeo, Inc.
0006F0 (base 16) Digeo, Inc.
8815 122nd Ave., NE
Kirkland WA 98033
US

00-07-00 (hex) Zettamedia Korea
000700
(base 16) Zettamedia Korea
Suite 1008, Kumkang Venturetel, 1108
Kyounggido,
KR

00-06-F2 (hex) Platys Communications
0006F2 (base 16) Platys Communications
3150A Coronado Dr.
Santa Clara CA 95054
US

00-06-FA (hex) IP SQUARE Co, Ltd.
0006FA (base 16) IP SQUARE Co, Ltd.
1-9-11, Hakataekihigashi,
Fukuoka 812-0013
JP

00-07-03 (hex) CSEE Transport
000703 (base 16) CSEE Transport
4, avenue du CANADA

FR

00-07-06 (hex) Sanritz Corporation
000706 (base 16) Sanritz Corporation
1-30-13, Narimasu,
175-0094
JP

00-06-EF (hex) Maxxan Systems, Inc.
0006EF (base 16) Maxxan Systems, Inc.
107 Bonaventura Drive
San Jose CA 95134
US

00-06-E9 (hex) Intime Corp.
0006E9 (base 16) Intime Corp.
324-4, Yangjae-dong, 2F

KR

00-06-EA (hex) ELZET80 Mikrocomputer GmbH&Co. KG
0006EA (base 16) ELZET80 Mikrocomputer GmbH&Co. KG
Theaterplatz
9

DE

00-06-54 (hex) Winpresa Building Automation Technologies GmbH
000654 (base 16) Winpresa Building Automation Technologies GmbH
Vivenotgasse 53/2

AT

00-06-B4 (hex) Vorne Industries, Inc.
0006B4 (base 16) Vorne Industries, Inc.
1445 Industrial Dr.
Itasca IL 60143-1849
US

00-06-AE (hex) Himachal Futuristic Communications Ltd
0006AE (base 16) Himachal Futuristic Communications Ltd
8, Commercial Complex
New Dehli 110048
IN

00-06-B0 (hex) Comtech EF Data Corp.
0006B0 (base 16) Comtech EF Data Corp.
2114 W. 7th St.
Tempe AZ 85281
US

00-07-08 (hex) Bitrage Inc.
000708 (base 16) Bitrage Inc.
100 Southpark Blvd.
Saint Augustine FL 32086
US

00-07-12 (hex) JAL Information Technology
000712 (base 16) JAL Information Technology
Network Solution Dep. JAL-Tamachi Bldg.
Tokyo
JP

00-07-13 (hex) IP One, Inc.
000713 (base 16) IP One, Inc.
Sammi
Bldg., 1004
Seoul, 135-083
KR

00-07-07 (hex) Interalia Inc.
000707 (base 16) Interalia Inc.
4110-79th Street N.W.
T3B 5C2
CA

00-06-96 (hex) Advent Networks
000696 (base 16) Advent Networks
9600 Great Hills Tr.
Austin TX 78759
US

00-06-8E (hex) HID Corporation
00068E (base 16) HID Corporation
9292 Jeronimo Road
Irvine CA 92618-1905

US

00-06-9B (hex) AVT Audio Video Technologies GmbH
00069B (base 16) AVT Audio Video Technologies GmbH
Rathsbergstraße 17

DE

00-06-93 (hex) Flexus Computer Technology, Inc.
000693 (base 16) Flexus Computer Technology, Inc.
8F-2, No.5, Alley22, Lane 513,
Taipei 114
TW

00-06-CA (hex) American Computer & Digital Components, Inc. (ACDC)
0006CA (base 16) American Computer & Digital Components, Inc. (ACDC)
440 Cloverleaf Drive
Baldwin Park CA 91706
US

00-06-8A (hex) NeuronNet Co. Ltd. R&D Center
00068A
(base 16) NeuronNet Co. Ltd. R&D Center
735-34 Dasung Bldg., Yuksam-dong,

KR

00-06-85 (hex) NetNearU Corporation
000685 (base 16) NetNearU Corporation
2908 Finfeather Road
Bryan TX 77801
US

00-06-7F (hex) Digeo, Inc.
00067F (base 16) Digeo, Inc.
8815 122nd Avenue NE
Kirkland WA 98033
US

00-06-83 (hex) Bravara Communications, Inc.
000683 (base 16) Bravara Communications, Inc.
2650 East Bayshore Road
Palo Alto CA 94303
US

00-06-55 (hex) Yipee, Inc.
000655 (base 16) Yipee, Inc.
555 International Drive

Williamsville NY 14221
US

00-06-34 (hex) GTE Airfone Inc.
000634 (base 16) GTE Airfone Inc.
2809 Butterfield
Oakbrook IL 60522
US

00-06-28 (hex) Cisco Systems, Inc
000628 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-06-1D (hex) MIP Telecom, Inc.
00061D (base 16) MIP Telecom, Inc.
3rd
Floor, Sangil BLDG,
Seoul 151-069
KR

00-05-F6 (hex) Young Chang Co. Ltd.
0005F6 (base 16) Young Chang Co. Ltd.
1432 Main Street
Waltham MA 02451
US

00-05-FC (hex) Schenck Pegasus Corp.
0005FC (base 16) Schenck Pegasus Corp.
2890 John R Road
Troy MI 48083
US

00-05-E8 (hex) TurboWave, Inc.
0005E8 (base 16) TurboWave, Inc.
555 South State
Orem UT 84058
US

A0-6A-00 (hex) Verilink Corporation
A06A00 (base 16) Verilink Corporation
127 Jetplex Circle
Madison AL 35758
US

00-05-F8 (hex) Real Time Access, Inc.
0005F8 (base 16) Real Time Access, Inc.

455 N. Canyons Pkwy.
Livermore CA 94550
US

00-06-50 (hex) Tiburon Networks, Inc.
000650 (base 16) Tiburon Networks, Inc.
200 Minuteman Rd.
Andover MA 01810
US

00-06-5E (hex) Photuris, Inc.
00065E (base 16) Photuris, Inc.
20 Corporate Place South
Piscataway NJ 08854
US

00-06-44 (hex) NextGen
Business Solutions, Inc
000644 (base 16) NextGen Business Solutions, Inc
KKS Higashi-Sapporo Bldg.3-5-3-24, Higashi-Sapporo
Shiroishi-ku, Sapporo-city Hokkaido 003-0003
JP

00-06-7A (hex) JMP Systems
00067A (base 16) JMP Systems
3rd Fl. Shinwha Bldg.,
Seocho-ku Seoul,
KR

00-06-73 (hex) TKH Security Solutions USA
000673 (base 16) TKH Security Solutions USA
12920 Cloverleaf Center Drive
Germantown MD 20874
US

00-06-76 (hex) Novra Technologies Inc.
000676 (base 16) Novra Technologies Inc.
900-330 St. Mary Avenue
Winnipeg Manitoba R3C 3Z5
CA

00-06-64 (hex) Fostex Corporation
000664 (base 16) Fostex Corporation
3-2-35, Musashino, Akishima,
Tokyo 196-0021
JP

00-06-45 (hex) Meisei Electric Co. Ltd.

000645 (base 16) Meisei Electric Co. Ltd.
249-1, Moriya-kou, Moriya
302-0192
JP

00-06-40 (hex) White Rock Networks
000640 (base 16) White Rock
Networks
Suite #900
Dallas TX 75252
US

00-06-3A (hex) Dura Micro, Inc.
00063A (base 16) Dura Micro, Inc.
13580 Fifth Street
Chino CA 91710
US

00-06-32 (hex) Mesco Engineering GmbH
000632 (base 16) Mesco Engineering GmbH
Wiesentalstraße 74

DE

00-06-0C (hex) Melco Industries, Inc.
00060C (base 16) Melco Industries, Inc.
1575 W. 124th Ave.
Denver CO 80234
US

00-06-0E (hex) IGYS Systems, Inc.
00060E (base 16) IGYS Systems, Inc.
7373 Lincoln Way
Garden Grove CA 92841
US

00-06-14 (hex) Prism Holdings
000614 (base 16) Prism Holdings
P.O. Box 901,
Gauteng
ZA

00-06-08 (hex) At-Sky SAS
000608 (base 16) At-Sky SAS
ZI Athelia 3, Voi Atlas

FR

00-06-19 (hex) Connection Technology Systems
000619 (base 16) Connection Technology Systems
18F-6, No. 79, Sec. 1,
Hsinchih Taipei,
TW

00-06-5D (hex) Heidelberg Web Systems
00065D
(base 16) Heidelberg Web Systems
121 Technology Dr.
Durham NH 03824
US

00-05-EB (hex) Blue Ridge Networks, Inc.
0005EB (base 16) Blue Ridge Networks, Inc.
14120 Parke Long Court
Chantilly VA 20151
US

00-05-D7 (hex) Vista Imaging, Inc.
0005D7 (base 16) Vista Imaging, Inc.
521 Taylor Way
San Carlos CA 94070
US

00-05-DB (hex) PSI Nentec GmbH
0005DB (base 16) PSI Nentec GmbH
Greschbachstraße12
Karlsruhe 76229
DE

00-05-DD (hex) Cisco Systems, Inc
0005DD (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-05-BE (hex) Kongsberg Seatex AS
0005BE (base 16) Kongsberg Seatex AS
Pirsenteret

NO

00-05-BD (hex) ROAX BV
0005BD (base 16) ROAX BV
Sterrenbergweg 29

NL

00-05-C1 (hex) A-Kyung Motion, Inc.
0005C1 (base 16) A-Kyung Motion, Inc.
54-10, Munjung-Dong
Seoul
KR

00-05-B6 (hex) INSYS
Microelectronics GmbH
0005B6 (base 16) INSYS Microelectronics GmbH
Hermann-Köhl-Straße 22

DE

00-05-B4 (hex) Aceex Corporation
0005B4 (base 16) Aceex Corporation
2F, No. 2, Alley 1, Sze-Wei Lane
23138
TW

00-05-98 (hex) CRONOS S.r.l.
000598 (base 16) CRONOS S.r.l.
Via cavour 58/A

IT

00-05-7E (hex) Eckelmann Steuerungstechnik GmbH
00057E (base 16) Eckelmann Steuerungstechnik GmbH
Berliner Strasse 161

DE

00-05-80 (hex) FibroLAN Ltd.
000580 (base 16) FibroLAN Ltd.
2 Hacarmel st., POB 544
Yokneam Illit 20692
IL

00-05-82 (hex) ClearCube Technology
000582 (base 16) ClearCube Technology
8834 Capital of Texas Hwy,
Austin TX 78759
US

00-05-C3 (hex) Pacific Instruments, Inc.
0005C3 (base 16) Pacific Instruments, Inc.
4080 Pike Lane
Concord CA 94520

US

00-05-B9 (hex) Airvana, Inc.
0005B9 (base 16) Airvana, Inc.
25
Industrial Ave.
Chlemsford MA 01824
US

00-05-BC (hex) Resource Data Management Ltd
0005BC (base 16) Resource Data Management Ltd
80 Johnstone Avenue,
Scotland G52 4NZ
GB

00-05-B7 (hex) Arbor Technology Corp.
0005B7 (base 16) Arbor Technology Corp.
5F, No. 738, Zhong Zheng Rd.,

TW

00-05-9B (hex) Cisco Systems, Inc
00059B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-05-9F (hex) Yotta Networks, Inc.
00059F (base 16) Yotta Networks, Inc.
2201 Avenue K
Plano TX 75074
US

00-05-D9 (hex) Techno Valley, Inc.
0005D9 (base 16) Techno Valley, Inc.
ASIC Venture Town 5F,
Seoul 135-072
KR

00-05-DC (hex) Cisco Systems, Inc
0005DC (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-05-D0 (hex) Solinet Systems
0005D0 (base 16) Solinet Systems
1200-180 Elgin St.

K2P 2K3
CA

00-05-87
(hex) Locus, Incorporated
000587 (base 16) Locus, Incorporated
5540 Research Park Drive
Madison WI 53711
US

00-05-90 (hex) Swissvoice Ltd.
000590 (base 16) Swissvoice Ltd.
Ziegelmattstrasse 1

CH

00-05-95 (hex) Alesis Corporation
000595 (base 16) Alesis Corporation
1633 26th Street
Santa Monica CA 90404
US

00-05-6A (hex) Heuft Systemtechnik GmbH
00056A (base 16) Heuft Systemtechnik GmbH
Brohltalstr 31-33
Deutschland
DE

00-05-68 (hex) Piltofish Networks AB
000568 (base 16) Piltofish Networks AB
Stora Badhusgatan 18-20

SE

00-05-62 (hex) Digital View Limited
000562 (base 16) Digital View Limited
2201 Nan Yang Plaza,
Kowloon
HK

00-05-78 (hex) Private
000578 (base 16) Private

00-05-72 (hex) Deonet Co., Ltd.
000572 (base 16) Deonet Co., Ltd.
#127-5 Jinyoung B/D 3th F,
Seoul
KR

00-05-76 (hex) NSM Technology
Ltd.
000576 (base 16) NSM Technology Ltd.
22 Floor, Times Tower
Koloon
HK

00-05-55 (hex) Japan Cash Machine Co., Ltd.
000555 (base 16) Japan Cash Machine Co., Ltd.
No. 3-15, 2-chome, Nishiwaki,
547-0035
JP

00-05-52 (hex) Xycotec Computer GmbH
000552 (base 16) Xycotec Computer GmbH
Karl-Heinz-Beckurts-Str. 4

DE

00-05-4A (hex) Ario Data Networks, Inc.
00054A (base 16) Ario Data Networks, Inc.
2890 Zanker Road, Suite 203
San Jose CA 95134
US

00-05-48 (hex) Disco Corporation
000548 (base 16) Disco Corporation
13-11 Omori-Kita 2-chome
Ota-ku Tokyo 143-8580
JP

00-04-F7 (hex) Omega Band, Inc.
0004F7 (base 16) Omega Band, Inc.
9020-I Capital of Texas Hghwy N
Austin TX 78759
US

00-04-EE (hex) Lincoln Electric Company
0004EE (base 16) Lincoln Electric Company
22801 St. Clair Avenue
Cleveland OH 44117-1199
US

00-04-F0 (hex) International
Computers, Ltd
0004F0 (base 16) International Computers, Ltd
1 Wenlock Way

UK
GB

00-05-27 (hex) SJ Tek Co. Ltd
000527 (base 16) SJ Tek Co. Ltd
Ho gae Dong 976-5, Dong An Ku,

KR

00-05-29 (hex) Shanghai Broadan Communication Technology Co., Ltd
000529 (base 16) Shanghai Broadan Communication Technology Co., Ltd
15F, Suntime International Mansion
200122
CN

00-05-2C (hex) Supreme Magic Corporation
00052C (base 16) Supreme Magic Corporation
Sun Towers Center Bldg., 13F
154-0024
JP

00-05-3E (hex) KID Systeme GmbH
00053E (base 16) KID Systeme GmbH
Luneburger Schanze 30

DE

00-05-3F (hex) VisionTek, Inc.
00053F (base 16) VisionTek, Inc.
1175 Lakeside Dr.
Gurnee IL 60031
US

00-05-3D (hex) Agere Systems
00053D (base 16) Agere Systems
1371 McCarthy Blvd.
Milpitas CA 95035
US

00-05-00 (hex) Cisco Systems, Inc
000500
(base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-05-19 (hex) Siemens Building Technologies AG,
000519 (base 16) Siemens Building Technologies AG,

Cerberus Division

CH

00-05-0D (hex) Midstream Technologies, Inc.
00050D (base 16) Midstream Technologies, Inc.
777 108th Ave. NE
Bellevue WA 98004-5140
US

00-04-DA (hex) Relax Technology, Inc.
0004DA (base 16) Relax Technology, Inc.
DBA/ Granite Digital
Union City CA 94587
US

00-04-E5 (hex) Glonet Systems, Inc.
0004E5 (base 16) Glonet Systems, Inc.
11Fl., Jeil Bldg., 94-46, 7Ka

KR

00-05-07 (hex) Fine Appliance Corp.
000507 (base 16) Fine Appliance Corp.
7Fl., No. 499,

TW

00-04-FD (hex) Japan Control Engineering Co., Ltd.
0004FD (base 16) Japan Control Engineering Co., Ltd.
1-5-1, Higashiamagawa, Takatsuki-shi

JP

00-05-35 (hex) Chip PC Ltd.
000535
(base 16) Chip PC Ltd.
20 A.L. Motzkin St.
Tirat Carmel 39100
IL

00-04-55 (hex) ANTARA.net
000455 (base 16) ANTARA.net
747 Camden Ave.
Campbell CA 95008
US

00-04-57 (hex) Universal Access Technology, Inc.

000457 (base 16) Universal Access Technology, Inc.
2 Fl., No. 5, Alley 22,
Nei Hu Taipei, TAIWAN 114
TW

00-04-AB (hex) Mavenir Inc.
0004AB (base 16) Mavenir Inc.
1700 International Parkway
Richardson TX 75081
US

00-04-A7 (hex) FabiaTech Corporation
0004A7 (base 16) FabiaTech Corporation
4F-3, No. 18, Lane 609
Taipei Hsien, TAIWAN R.O.C
TW

00-04-AA (hex) Jetstream Communications
0004AA (base 16) Jetstream Communications
5400 Hellyer Avenue
San Jose CA 95138-1005
US

00-04-A0 (hex) Verity Instruments, Inc.
0004A0 (base 16) Verity Instruments, Inc.
2901 Eisenhower St.
Carrollton TX 75007
US

00-04-9E (hex) Wirelink Co., Ltd.
00049E
(base 16) Wirelink Co., Ltd.
11F, Geoseong B/D 541, Dowha-Dong,
KOREA
KR

00-04-9A (hex) Cisco Systems, Inc
00049A (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-04-D2 (hex) Adcon Telemetry GmbH
0004D2 (base 16) Adcon Telemetry GmbH
Inkustraße 24

AT

00-04-D3 (hex) Toyokeiki Co., Ltd.
0004D3 (base 16) Toyokeiki Co., Ltd.
Wada 3967-10, Matsumoto-City

JP

00-04-98 (hex) Mahi Networks
000498 (base 16) Mahi Networks
1039 N. McDowell Blvd.
Petaluma CA 94954
US

00-04-97 (hex) MacroSystem Digital Video AG
000497 (base 16) MacroSystem Digital Video AG
Schoellinger Feld 28

DE

00-04-88 (hex) Eurotherm Controls
000488 (base 16) Eurotherm Controls
741F Miller Drive
Lessburg VA 20175
US

00-04-4D (hex) Cisco Systems, Inc
00044D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-04-54
(hex) Quadriga UK
000454 (base 16) Quadriga UK
Baird House
ENGLAND
GB

00-04-48 (hex) Polaroid Corporation
000448 (base 16) Polaroid Corporation
300 Baker Avenue
Concord MA 01742
US

00-04-47 (hex) Acrowave Systems Co., Ltd.
000447 (base 16) Acrowave Systems Co., Ltd.
Maru B/D 86-6, Nonhyun-Dong
KOREA zip: 135-818
KR

00-04-85 (hex) PicoLight
000485 (base 16) PicoLight
4665 Nautilus Court South
Boulder CO 80301
US

00-04-79 (hex) Radius Co., Ltd.
000479 (base 16) Radius Co., Ltd.
1-48-11, Itabashi

JP

00-04-D5 (hex) Hitachi Information & Communication Engineering, Ltd.
0004D5 (base 16) Hitachi Information & Communication Engineering, Ltd.
Queen's Tower B21F, 2-3-3, Minatomirai,
Nishi-ku, Yokohama, 220-6121
JP

00-04-CA (hex) FreeMs Corp.
0004CA (base 16) FreeMs Corp.
Shinhan Bldg. 6F,
Seoul 150-736 KOREA
KR

00-04-C5
(hex) ASE Technologies, USA
0004C5 (base 16) ASE Technologies, USA
6721 Baum Dr.
Knoxville TN 37919
US

00-04-B0 (hex) ELESIGN Co., Ltd.
0004B0 (base 16) ELESIGN Co., Ltd.
9Fl. TaeKyoung Bldg.,
R.O. KOREA
KR

00-04-6D (hex) Cisco Systems, Inc
00046D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-04-66 (hex) ARMITEL Co.
000466 (base 16) ARMITEL Co.
F5, Doman Plaza 353-4,
Republic of KOREA

KR

00-04-3E (hex) Telencomm
00043E (base 16) Telencomm
2551 Walsh Avenue
Santa Clara CA 95051
US

00-04-36 (hex) ELANsat Technologies, Inc.
000436 (base 16) ELANsat Technologies, Inc.
No. 11, Lane 19, Pateh Road,
Hsinchu TAIWAN, R.O.C.
TW

00-04-35 (hex) InfiNet LLC
000435 (base 16) InfiNet LLC
Office 425, 69/75 Vavilova str.
Moscow\ 117335
RU

00-04-32 (hex) Voyetra Turtle Beach, Inc.
000432 (base 16) Voyetra
Turtle Beach, Inc.
150 Clearbrook Road, Suite 162
Elmsford NY 10523
US

00-04-37 (hex) Powin Information Technology, Inc.
000437 (base 16) Powin Information Technology, Inc.
8F, No. 70, Zhou-Z St.
TAIWAN TAIWAN R.O.C.
TW

00-04-14 (hex) Umezawa Musen Denki Co., Ltd.
000414 (base 16) Umezawa Musen Denki Co., Ltd.
14-3, Minami 1, Nishi 8,
Hokkaido JAPAN 060-0061
JP

00-04-0C (hex) Kanno Works, Ltd.
00040C (base 16) Kanno Works, Ltd.
1-5-25 Kamitomino,

JP

00-04-08 (hex) Sanko Electronics Co., Ltd.
000408 (base 16) Sanko Electronics Co., Ltd.
3-802 ueda tenpaku-ku

nagoya
JP

00-04-09 (hex) Cratos Networks
000409 (base 16) Cratos Networks
313 Littleton Road
Chelmsford MA 01824
US

00-04-07 (hex) Topcon Positioning Systems, Inc.
000407 (base 16) Topcon Positioning Systems, Inc.
5758 W. Las Positas Blvd.
Pleasanton CA 94588
US

00-03-CD
(hex) Clovertech, Inc.
0003CD (base 16) Clovertech, Inc.
3-1-5 Naka-cho Musashino-shi
Tokyo 180-0006
JP

00-03-CC (hex) Momentum Computer, Inc.
0003CC (base 16) Momentum Computer, Inc.
1815 Aston Avenue
Carlsbad CA 92008-7310
US

00-03-EE (hex) MKNet Corporation
0003EE (base 16) MKNet Corporation
711-B Charcot Ave.
San Jose CA 95131
US

00-03-EA (hex) Mega System Technologies, Inc.
0003EA (base 16) Mega System Technologies, Inc.
2F, No. 41, Lane 76,
Taipei Taipei TAIWAN
TW

00-03-E6 (hex) Entone, Inc.
0003E6 (base 16) Entone, Inc.
2755 Campus Dr Ste 235
San Mateo CA 94403
US

00-03-D7 (hex) NextNet Wireless, Inc.
0003D7 (base 16) NextNet Wireless, Inc.

9555 James Ave. So.
Bloomington MN 55431
US

00-03-D3 (hex) Internet Energy Systems, Inc.
0003D3 (base 16) Internet Energy Systems, Inc.
4218 Trumbo Ct.
Fairfax VA 22033
US

00-03-E2
(hex) Comspace Corporation
0003E2 (base 16) Comspace Corporation
955 Freeport Pkwy
Coppell TX 75019
US

00-03-FF (hex) Microsoft Corporation
0003FF (base 16) Microsoft Corporation
1 Microsoft Way
Redmond WA 98052
US

00-03-B5 (hex) Entra Technology Co.
0003B5 (base 16) Entra Technology Co.
Fl. 3, No. 5, Alley 2,
TAIWAN TAIWAN R.O.C.
TW

00-04-28 (hex) Cisco Systems, Inc
000428 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-03-A9 (hex) AXCENT Media AG
0003A9 (base 16) AXCENT Media AG
Technologiepark 13

DE

00-03-62 (hex) Vodtel Communications, Inc.
000362 (base 16) Vodtel Communications, Inc.
12F, No 166 Chien-Yi Road
235
TW

00-03-64 (hex) Scenix Semiconductor, Inc.

000364 (base 16) Scenix Semiconductor, Inc.
1330 Charleston Rd.
Mountainview CA 94043
US

00-03-5E (hex) Metropolitan Area Networks, Inc.
00035E
(base 16) Metropolitan Area Networks, Inc.
1299 Pennsylvania Avenue, NW
Washington DC 20004
US

00-03-5C (hex) Saint Song Corp.
00035C (base 16) Saint Song Corp.
4F, No. 12, Lane 94, Tsao Ti Wzi
222
TW

00-03-5D (hex) Bosung Hi-Net Co., Ltd.
00035D (base 16) Bosung Hi-Net Co., Ltd.
Youngil B/O 2F,
137-130
KR

00-03-8B (hex) PLUS-ONE I&T, Inc.
00038B (base 16) PLUS-ONE I&T, Inc.
7F, A-San Venture Tower,
KOREA
KR

00-03-8C (hex) Total Impact
00038C (base 16) Total Impact
295 Willis Ave.
Camarillo CA 93010
US

00-03-86 (hex) Ho Net, Inc.
000386 (base 16) Ho Net, Inc.
Venture Company Center
KOREA 442-760
KR

00-80-37 (hex) Ericsson Group
008037 (base 16) Ericsson Group
Telefonaktiebolaget

SE

00-03-3D (hex) ILSHin Lab
00033D (base 16) ILSHin Lab
KCS B/D 228-13 Young Dap-Dong
Seoul
KR

00-03-34 (hex) Omega
Engineering Inc.
000334 (base 16) Omega Engineering Inc.
800 Connecticut Ave. Suite 5N01,
Norwalk CT 06854
US

00-03-3A (hex) Silicon Wave, Inc.
00033A (base 16) Silicon Wave, Inc.
6256 Greenwich Drive
San Diego CA 92122
US

00-03-32 (hex) Cisco Systems, Inc
000332 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-03-7D (hex) Stellcom
00037D (base 16) Stellcom
10525 Vista Sorrento Parkway
San Diego CA 92121
US

00-03-83 (hex) Metera Networks, Inc.
000383 (base 16) Metera Networks, Inc.
1202 Richardson Dr.
Richardson TX 75080
US

00-03-79 (hex) Proscend Communications, Inc.
000379 (base 16) Proscend Communications, Inc.
2F, No.36, Industry E. Rd. IV,
Hsinchu 300
TW

00-03-6F (hex) Telsey SPA
00036F (base 16) Telsey SPA
Viale Dell Industria, 1
DiTreviso-
IT

00-03-72 (hex) ULAN
000372 (base 16) ULAN
5F-3,
No. 31-1, Lane 169,
TAIWAN TAIWAN R.O.C.
TW

00-03-66 (hex) ASM Pacific Technology
000366 (base 16) ASM Pacific Technology
12/F Watson Centre
Kwai Chung
HK

00-03-9F (hex) Cisco Systems, Inc
00039F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-03-90 (hex) Digital Video Communications, Inc.
000390 (base 16) Digital Video Communications, Inc.
500 W. Cummings Park
Woburn MA 07801
US

00-03-4D (hex) Chiaro Networks, Ltd.
00034D (base 16) Chiaro Networks, Ltd.
P.O. Box 832427
Richardson TX 75083-2427
US

00-03-41 (hex) Axon Digital Design
000341 (base 16) Axon Digital Design
Lange Wagenstraat 55

NL

00-03-22 (hex) IDIS Co., Ltd.
000322 (base 16) IDIS Co., Ltd.
7th Floor, 646-7 Yuksam-Dong,

KR

00-03-1D (hex) Taiwan Commate Computer, Inc.
00031D (base 16) Taiwan Commate Computer, Inc.
8F,

No. 94, Sec 1,

TW

00-03-26 (hex) Iwasaki Information Systems Co., Ltd.
000326 (base 16) Iwasaki Information Systems Co., Ltd.
3361 Oshi

JP

00-02-90 (hex) Woorigisool, Inc.
000290 (base 16) Woorigisool, Inc.
Yoopoong Bldg.
Seoul Seoul KOREA
KR

00-02-92 (hex) Logic Innovations, Inc.
000292 (base 16) Logic Innovations, Inc.
6205 Lusk Blvd.
San Diego CA 92121-2731
US

00-02-86 (hex) Occam Networks
000286 (base 16) Occam Networks
4183 State Street
Santa Barbara CA 93110
US

00-10-95 (hex) Thomson Inc.
001095 (base 16) Thomson Inc.
101 West 103rd Street
Indianapolis IN 46290-1102
US

00-02-7B (hex) Amplify Net, Inc.
00027B (base 16) Amplify Net, Inc.
47381 Bayside Parkway
Fremont CA 94538
US

00-02-73 (hex) Coriolis Networks
000273 (base 16) Coriolis Networks
330 Codmanhill Road
Boxborough MA 01719
US

00-02-B4 (hex) DAPHNE
0002B4

(base 16) DAPHNE
101 Chaussee De Binche

BE

00-02-B0 (hex) Hokubu Communication & Industrial Co., Ltd.
0002B0 (base 16) Hokubu Communication & Industrial Co., Ltd.
Fushiogami-aza-oki 27-1
Fukushima 960-8514
JP

00-02-AA (hex) PLcom Co., Ltd.
0002AA (base 16) PLcom Co., Ltd.
Hosung B/D, #1083-1, Hogye-Dong
South Korea
KR

00-02-9D (hex) Merix Corp.
00029D (base 16) Merix Corp.
Jin-Su Building, 49-16
Seoul Seoul KOREA
KR

00-02-D2 (hex) Workstation AG
0002D2 (base 16) Workstation AG
Schaffhauserstrasse 55

CH

00-02-CD (hex) TeleDream, Inc.
0002CD (base 16) TeleDream, Inc.
Shinhwa Bldg., 940-10 Daechi-Dong

KR

00-02-D0 (hex) Comdial Corporation
0002D0 (base 16) Comdial Corporation
1180 Seminole Trail
Charlottesville VA 22901
US

00-02-CC (hex) M.C.C.I
0002CC (base 16) M.C.C.I
3520 Krums Corners Rd.
Ithaca
NY 14850
US

00-02-E8 (hex) E.D.&A.
0002E8 (base 16) E.D.&A.
Energielaan 16

BE

00-02-D9 (hex) Reliable Controls
0002D9 (base 16) Reliable Controls
120 Hallowell Road
Victoria, B.C. V9A 7K2
CA

00-03-0E (hex) Core Communications Co., Ltd.
00030E (base 16) Core Communications Co., Ltd.
3F Shopping Center Bd. of
Seoul (121-050) (121-050)
KR

00-03-12 (hex) TRsystems GmbH
000312 (base 16) TRsystems GmbH
Eglishalde 16
Trossingen Baden-Wuerttemberg D-78647
DE

00-02-F2 (hex) eDevice, Inc.
0002F2 (base 16) eDevice, Inc.
420 Lexington Avenue
New York NY 10170
US

00-02-EF (hex) CCC Network Systems Group Ltd.
0002EF (base 16) CCC Network Systems Group Ltd.
13 Farnborough Business Centre
ENGLAND
GB

00-02-C5 (hex) Evertz Microsystems Ltd.
0002C5 (base 16) Evertz Microsystems Ltd.
5292 John Lucas Drive
Ontario L7L 5Z9
CA

00-02-B5
(hex) Avnet, Inc.
0002B5 (base 16) Avnet, Inc.
2211 S. 47th Street
Phoenix AZ 85034
US

00-02-7E (hex) Cisco Systems, Inc
00027E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-02-7F (hex) ask-technologies.com
00027F (base 16) ask-technologies.com
36 Wellington Business Park

GB

00-02-49 (hex) Aviv Infocom Co, Ltd.
000249 (base 16) Aviv Infocom Co, Ltd.
962-5, Kwanyang-Dong, Dongan-Gu,
Korea (ROK)
KR

00-02-45 (hex) Lampus Co, Ltd.
000245 (base 16) Lampus Co, Ltd.
6th Bldg., Samgong,
Korea Korea 137-044
KR

00-02-46 (hex) All-Win Tech Co., Ltd.
000246 (base 16) All-Win Tech Co., Ltd.
11F, No. 111-7, Hsing De Rd.,
Taipei Hsien Taiwan, R.O.C.
TW

00-02-1C (hex) Network Elements, Inc.
00021C (base 16) Network Elements, Inc.
9782 SW Nimbus Avenue
Beaverton OR 97008
US

00-02-0C (hex) Metro-Optix
00020C
(base 16) Metro-Optix
2201 Avenue K
Plano TX 75074
US

00-02-16 (hex) Cisco Systems, Inc
000216 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568

US

00-02-14 (hex) DTVRO
000214 (base 16) DTVRO
813 Daegong Bldg.,
KOREA KOREA 135-080
KR

00-02-3A (hex) ZSK Stickmaschinen GmbH
00023A (base 16) ZSK Stickmaschinen GmbH
Magdeburger Straße 38-40

DE

00-02-32 (hex) Avision, Inc.
000232 (base 16) Avision, Inc.
No. 20, Creation Rd. 1,
Hsinchu Taiwan, R.O.C.
TW

00-02-35 (hex) Paragon Networks International
000235 (base 16) Paragon Networks International
61 Commerce Drive
Brookfield CT 06804
US

00-02-37 (hex) Cosmo Research Corp.
000237 (base 16) Cosmo Research Corp.
Cosmo Bldg, 3-148-5

KW

00-02-28 (hex) Necsom, Ltd.
000228 (base 16) Necsom, Ltd.
Necsom Ltd. c/o Koirsto

FI

00-02-5D (hex) Calix
Networks
00025D (base 16) Calix Networks
1035 North McDowell Blvd.
Petaluma CA 94954
US

00-02-57 (hex) Microcom Corp.
000257 (base 16) Microcom Corp.
8333A Green Meadows Dr. N.

Westerville OH 43081
US

00-02-53 (hex) Televideo, Inc.
000253 (base 16) Televideo, Inc.
2345 Harris Way
San Jose CA 95131
US

00-02-4A (hex) Cisco Systems, Inc
00024A (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-02-6F (hex) Senao International Co., Ltd.
00026F (base 16) Senao International Co., Ltd.
2F, No. 531, Chung-Cheng Rd.,
TAIWAN
TW

00-01-ED (hex) SETA Corp.
0001ED (base 16) SETA Corp.
Ariake Frontier Bldg. B
JAPAN 135-0063
JP

00-01-EA (hex) Cirilium Corp.
0001EA (base 16) Cirilium Corp.
1615 S. 52nd Street
Tempe AZ 85281
US

00-02-0F (hex) AATR
00020F (base 16) AATR
306 Chemin des Miroirs

FR

00-01-F6
(hex) Association of Musical Electronics Industry
0001F6 (base 16) Association of Musical Electronics Industry
Ito Bldg. 4th Floor 2-16-9 Misaki-cho,

JP

00-01-E0 (hex) Fast Systems, Inc.
0001E0 (base 16) Fast Systems, Inc.

87-9 Yang-Jae, Seo-Cho,
KOREA
KR

00-01-D6 (hex) manroland AG
0001D6 (base 16) manroland AG
Stadtbachstraße 1

DE

00-02-30 (hex) Intersoft Electronics
000230 (base 16) Intersoft Electronics
Lammerdries 27

BE

00-01-66 (hex) TC GROUP A/S
000166 (base 16) TC GROUP A/S
Sindalsvej 34
Risskov DK-8240
DK

00-01-71 (hex) Allied Data Technologies
000171 (base 16) Allied Data Technologies
Pascalweg 1,
THE
NL

00-01-76 (hex) Orient Silver Enterprises
000176 (base 16) Orient Silver Enterprises
8740 White Oak Avenue
Rancho Cucamonga CA 91730
US

00-01-58 (hex) Electro Industries/Gauge Tech
000158
(base 16) Electro Industries/Gauge Tech
1800 Shames Drive
Westbury NY 11590
US

00-01-2A (hex) Telematica Sistems Inteligente
00012A (base 16) Telematica Sistems Inteligente
Rua Miguel Casagrande, 200
São Paulo
BR

00-01-2D (hex) Komodo Technology

00012D (base 16) Komodo Technology
170 Knowles Drive
Los Gatos CA 95032
US

00-01-48 (hex) X-traWeb Inc.
000148 (base 16) X-traWeb Inc.
6750 West 93rd Street - Ste. #210
Overland Park KS 66212
US

00-30-AC (hex) Systeme Lauer GmbH & Co., Ltd.
0030AC (base 16) Systeme Lauer GmbH & Co., Ltd.
Kelterstrasse 59
72669 Unterensingen
DE

00-01-AC (hex) Sitara Networks, Inc.
0001AC (base 16) Sitara Networks, Inc.
60 Hickory Drive
Waltham MA 02451
US

00-01-AD (hex) Coach Master International d.b.a. CMI Worldwide, Inc.
0001AD (base 16) Coach Master International d.b.a. CMI Worldwide, Inc.
600 Stewart Street
Seattle
WA 98101
US

00-01-9B (hex) Kyoto Microcomputer Co., Ltd.
00019B (base 16) Kyoto Microcomputer Co., Ltd.
2-44 nakayama oe nishikyo-ku
kyoto
JP

00-01-88 (hex) LXCO Technologies ag
000188 (base 16) LXCO Technologies ag
Gimmerstraße 69

DE

00-01-7F (hex) Experience Music Project
00017F (base 16) Experience Music Project
110 -110th Avenue NE - Ste. #400
Bellevue WA 98004
US

00-01-87 (hex) I2SE GmbH
000187 (base 16) I2SE GmbH
Friedrich-Ebert-Str. 61
Leipzig 04109
DE

00-01-CB (hex) EVR
0001CB (base 16) EVR
12 Raul Wallenberg St.
Tel Aviv 69719
IL

00-01-C3 (hex) Acromag, Inc.
0001C3 (base 16) Acromag, Inc.
30765 S. Wixom Road
Wixom MI 48393
US

00-01-C2 (hex) ARK Research Corp.
0001C2 (base 16) ARK Research Corp.
1198 Saratoga Ave. #11D
San Jose CA 95129
US

00-01-97 (hex) Cisco Systems, Inc
000197 (base 16) Cisco
Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-01-80 (hex) AOpen, Inc.
000180 (base 16) AOpen, Inc.
6F, 88, Sec.1, Hsin Tai
TAIWAN TAIWAN R.O.C.
TW

00-01-5A (hex) Digital Video Broadcasting
00015A (base 16) Digital Video Broadcasting
DVB, % European Broadcasting Union

CH

00-01-59 (hex) S1 Corporation
000159 (base 16) S1 Corporation
R&D Center, S1 Bldg.
KOREA 135-010
KR

00-01-9A (hex) LEUNIG GmbH
00019A (base 16) LEUNIG GmbH
Wilhelm-Ostwald-Str. 17

DE

00-01-3A (hex) SHELCAD COMMUNICATIONS, LTD.
00013A (base 16) SHELCAD COMMUNICATIONS, LTD.
P.O. Box 8513

IL

00-01-40 (hex) Sendtek Corporation
000140 (base 16) Sendtek Corporation
12F-3, 333, Sec.1
TAIWAN
TW

00-01-23 (hex) Schneider Electric Japan Holdings Ltd.
000123 (base 16) Schneider Electric Japan Holdings Ltd.
Schneider Electric Osaka Building
4-4-9
Kitahama Chuo-ku, Osaka 541-0041
JP

00-01-25 (hex) YAESU MUSEN CO., LTD.
000125 (base 16) YAESU MUSEN CO., LTD.
Tennozu Parkside Building
Shinagawa-ku, Tokyo 140-0002
JP

00-01-26 (hex) PAC Labs
000126 (base 16) PAC Labs
3079 Kilgore Road
Rancho Cordova CA 95670
US

00-01-1B (hex) Unizone Technologies, Inc.
00011B (base 16) Unizone Technologies, Inc.
5Floor HaeSung Bldg.
SeoCho-Ku Seoul
KR

00-B0-F0 (hex) CALY NETWORKS
00B0F0 (base 16) CALY NETWORKS
295 Santa Anna Court
Sunnyvale CA 94086

US

00-B0-9A (hex) Morrow Technologies Corp.
00B09A (base 16) Morrow Technologies Corp.
2300 Tall Pines Drive
Largo FL 33771-5342
US

00-30-A9 (hex) Netiverse, Inc.
0030A9 (base 16) Netiverse, Inc.
100 Century Center Court
San Jose CA 95112
US

00-30-FE (hex) DSA GmbH
0030FE (base 16) DSA GmbH
Pascalstraße 28
52076 Aachen
DE

00-30-C4
(hex) Canon Imaging Systems Inc.
0030C4 (base 16) Canon Imaging Systems Inc.
1-24 Yoneyama, Chuo-ku
Niigata-shi Niigata 950-0916
JP

00-30-4D (hex) ESI
00304D (base 16) ESI
3701 E. Plano Parkway
Plano TX 75074
US

00-30-D5 (hex) DResearch GmbH
0030D5 (base 16) DResearch GmbH
Otto-Schmirgal-Str.3
10319 Berlin
DE

00-30-18 (hex) Jetway Information Co., Ltd.
003018 (base 16) Jetway Information Co., Ltd.
4F, No. 168, LI THE ST.
Chung Ho City 235 Taipei
TW

00-30-89 (hex) Spectrapoint Wireless, LLC
003089 (base 16) Spectrapoint Wireless, LLC
1125 E. Collins Blvd.

Richardson TX 75081
US

00-01-1D (hex) Centillium Communications
00011D (base 16) Centillium Communications
47211 Lakeview Blvd.
Fremont CA 94538
US

00-01-1F (hex) RC Networks, Inc.
00011F (base 16) RC Networks, Inc.
6727 Flanders Drive - Ste. #212
San Diego CA 92121
US

00-B0-80
(hex) Mannesmann Ipulsys B.V.
00B080 (base 16) Mannesmann Ipulsys B.V.
Bordewijklaan 18
2591 XR The Hague
NL

00-B0-1E (hex) Rantic Labs, Inc.
00B01E (base 16) Rantic Labs, Inc.
702 Brazos, Suite #500
Austin TX 78701
US

00-30-FB (hex) AZS Technology AG
0030FB (base 16) AZS Technology AG
Steinbeisstrasse 2-4
72510 Stetten A.K.M.
DE

00-30-03 (hex) Phasys Ltd.
003003 (base 16) Phasys Ltd.
#100-9404 41st Avenue
Edmonton Alberta T6X 1R2
CA

00-30-AE (hex) Times N System, Inc.
0030AE (base 16) Times N System, Inc.
1826 Kramer Lane - Ste.
Austin TX 78758
US

00-30-E2 (hex) GARNET SYSTEMS CO., LTD.
0030E2 (base 16) GARNET SYSTEMS CO., LTD.

Sungwon Bldg. 545-7
Seoul
KR

08-14-43 (hex) UNIBRAIN S.A.
081443 (base 16) UNIBRAIN S.A.
84, ETHNIKIS ANTISTASEOS

GR

00-B0-09 (hex) Grass Valley, A Belden Brand
00B009 (base
16) Grass Valley, A Belden Brand
3499, Douglas B. Floreani
Montreal Quebec H4S 2C6
CA

00-B0-AC (hex) SIAE-Microelettronica S.p.A.
00B0AC (base 16) SIAE-Microelettronica S.p.A.
Via Michelangelo Buonarroti, 21
20093 Cologno M. (Ml)
IT

00-30-2E (hex) Hoft & Wessel AG
00302E (base 16) Hoft & Wessel AG
Rotenburger Strasse 20
30659 Hannover
DE

00-30-ED (hex) Expert Magnetics Corp.
0030ED (base 16) Expert Magnetics Corp.
12/F., Unit D, MTG Bldg., 1-3, Nakase
Mihama-ku, Chiba-city, 261-8501
JP

00-30-0F (hex) IMT - Information Management T
00300F (base 16) IMT - Information Management T
Gewerbestrasse 8
CH-9470 Buchs
CH

00-30-82 (hex) TAIHAN ELECTRIC WIRE CO., LTD.
003082 (base 16) TAIHAN ELECTRIC WIRE CO., LTD.
Communication Engineering Team
Seoul
KR

00-30-E6 (hex) Draeger Medical Systems, Inc.

0030E6 (base 16) Draeger Medical Systems, Inc.
6
Tech Drive
Andover MA 01810
US

00-30-62 (hex) IP Video Networks Inc
003062 (base 16) IP Video Networks Inc
6650 Lusk Blvd
SAN DIEGO CA 92121
US

00-30-2D (hex) QUANTUM BRIDGE COMMUNICATIONS
00302D (base 16) QUANTUM BRIDGE COMMUNICATIONS
ONE HIGH STREET
NORTH ANDOVER MA 01845
US

00-30-CB (hex) OMNI FLOW COMPUTERS, INC.
0030CB (base 16) OMNI FLOW COMPUTERS, INC.
10701 CORPORATE DRIVE-STE.#300
STAFFORD TX 77477
US

00-30-6B (hex) CMOS SYSTEMS, INC.
00306B (base 16) CMOS SYSTEMS, INC.
23440 HAWTHORNE BLVD-STE #290
TORRANCE CA 90505
US

00-30-AD (hex) SHANGHAI COMMUNICATION
0030AD (base 16) SHANGHAI COMMUNICATION
TECHNOLOGIES CENTER
P.R.
CN

00-30-90 (hex) CYRA TECHNOLOGIES, INC.
003090 (base 16) CYRA TECHNOLOGIES, INC.
8000 CAPWELL DRIVE
OAKLAND CA 94621
US

00-30-A7 (hex) SCHWEITZER ENGINEERING
0030A7 (base 16) SCHWEITZER ENGINEERING
LABORATORIES,
INC.
PULLMAN WA 99163
US

00-30-23 (hex) COGENT COMPUTER SYSTEMS, INC.
003023 (base 16) COGENT COMPUTER SYSTEMS, INC.
10 RIVER ROAD - STE. #205
UXBRIDGE MA 01569
US

00-30-7C (hex) ADID SA
00307C (base 16) ADID SA
70 RU ANATOLE FRANCE
92 300 LEVALLOIS-PERRET CEDEX
FR

00-30-9A (hex) ASTRO TERRA CORP.
00309A (base 16) ASTRO TERRA CORP.
11526 SORRENTO VALLEY ROAD
SAN DIEGO CA 92121
US

00-30-9F (hex) AMBER NETWORKS
00309F (base 16) AMBER NETWORKS
2475 AUGUSTINE DR.
SANTA CLARA CA 95054
US

00-30-A8 (hex) OL'E COMMUNICATIONS, INC.
0030A8 (base 16) OL'E COMMUNICATIONS, INC.
1962 ZANKER ROAD
SAN JOSE CA 95112
US

00-30-D1 (hex) INOVA CORPORATION
0030D1 (base 16) INOVA CORPORATION
110 AVON STREET
CHARLOTTESVILE VA 22902
US

00-30-CF (hex) TWO TECHNOLOGIES, INC.
0030CF (base 16) TWO TECHNOLOGIES, INC.
419 SARGON WAY
HORSHAM
PA 19044
US

00-30-B2 (hex) L-3 Sonoma EO
0030B2 (base 16) L-3 Sonoma EO
428 Aviation Blvd
Santa Rosa CA 95403

US

00-30-35 (hex) Corning Incorporated
003035 (base 16) Corning Incorporated
Data Center
Corning NY 14831
US

00-30-7F (hex) IRLAN LTD.
00307F (base 16) IRLAN LTD.
1 HATAMAR STREET

IL

00-30-AA (hex) AXUS MICROSYSTEMS, INC.
0030AA (base 16) AXUS MICROSYSTEMS, INC.
2F-4, NO.18/N. 609, SEC. 5
TAIWAN TAIWAN R.O.C.
TW

00-30-5D (hex) DIGITRA SYSTEMS, INC.
00305D (base 16) DIGITRA SYSTEMS, INC.
8-61, GAWOL-DONG
KOREA 140-150
KR

00-30-55 (hex) Renesas Technology America, Inc.
003055 (base 16) Renesas Technology America, Inc.
450 Holger Way
San Jose CA 95134
US

00-30-2F (hex) GE Aviation System
00302F (base 16) GE Aviation System
3290 Patterson Ave., S.E.
Grand Rapids MI 49512
US

00-30-0E (hex) Klotz Digital
AG
00300E (base 16) Klotz Digital AG
Hans-Stiessbergerstraße 2A
D-85540 Haar
DE

00-30-BB (hex) CacheFlow, Inc.
0030BB (base 16) CacheFlow, Inc.
650 Almanor Drive

Sunnyvale CA 94086
US

00-30-07 (hex) OPTI, INC.
003007 (base 16) OPTI, INC.
1440 MCCARTHY BLVD.
MILPITAS CA 95035
US

00-30-BD (hex) BELKIN COMPONENTS
0030BD (base 16) BELKIN COMPONENTS
501 WEST WALNUT STREET
COMPTON CA 90220
US

00-30-87 (hex) VEGA GRIESHABER KG
003087 (base 16) VEGA GRIESHABER KG
AM HOHENSTEIN 113

DE

00-D0-C2 (hex) BALTHAZAR TECHNOLOGY AB
00D0C2 (base 16) BALTHAZAR TECHNOLOGY AB
ANKDAMMSGATAN 24

SE

00-D0-22 (hex) INCREDIBLE TECHNOLOGIES, INC.
00D022 (base 16) INCREDIBLE TECHNOLOGIES, INC.
1600 HICKS ROAD
ROLLING MEADOWS IL 60008
US

00-D0-71 (hex) ECHELON CORP.
00D071 (base 16) ECHELON CORP.
2901 Patrick Henry Dr.
Santa Clara CA
95054
US

00-D0-4F (hex) BITRONICS, INC.
00D04F (base 16) BITRONICS, INC.
P.O. BOX 22290
LEHIGH VALLEY PA 18002-2290
US

00-D0-FB (hex) TEK MICROSYSTEMS, INCORPORATED
00D0FB (base 16) TEK MICROSYSTEMS, INCORPORATED

ONE NORTH AVENUE
BURLINGTON MA 01803
US

00-D0-66 (hex) WINTRISS ENGINEERING CORP.
00D066 (base 16) WINTRISS ENGINEERING CORP.
6344 FERRIS SQUARE
SAN DIEGO CA 92121
US

00-D0-82 (hex) IOWAVE INC.
00D082 (base 16) IOWAVE INC.
1010 WISCONSIN AVENUE
WASHINGTON DC 20007
US

00-D0-69 (hex) TECHNOLOGIC SYSTEMS
00D069 (base 16) TECHNOLOGIC SYSTEMS
16610 E. LASER DRIVE-STE. #10
FOUNTAIN HILLS AZ 85268
US

00-D0-90 (hex) Cisco Systems, Inc
00D090 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-D0-F5 (hex) ORANGE MICRO, INC.
00D0F5 (base 16) ORANGE MICRO, INC.
1400 N. LAKEVIEW AVE.
ANAHEIM CA 92807
US

00-D0-78
(hex) Eltex of Sweden AB
00D078 (base 16) Eltex of Sweden AB
Södra Portgatan 19
OSBY Skåne 283 50
SE

00-D0-E9 (hex) Advantage Century Telecommunication Corp.
00D0E9 (base 16) Advantage Century Telecommunication Corp.
4F, 41, Tunghsin Rd.
Taipei
TW

00-D0-94 (hex) Seeion Control LLC

00D094 (base 16) Seeion Control LLC
117 Stephanie Lane
vista CA 92084-5316
US

00-D0-15 (hex) UNIVEX MICROTECHNOLOGY CORP.
00D015 (base 16) UNIVEX MICROTECHNOLOGY CORP.
2, TZE-CHIANG 3RD ROAD
TAIWAN
TW

00-D0-A5 (hex) AMERICAN ARIUM
00D0A5 (base 16) AMERICAN ARIUM
14281 CHAMBERS ROAD
TUSTIN CA 92780
US

00-D0-CF (hex) MORETON BAY
00D0CF (base 16) MORETON BAY
12/97 JIJAWS STREET

AU

00-D0-7F (hex) STRATEGY & TECHNOLOGY, LIMITED
00D07F (base 16) STRATEGY & TECHNOLOGY, LIMITED
Suite 4.2, Clifton Heights
Bristol BS8 1EJ
GB

00-30-36 (hex) RMP
ELEKTRONIKSYSTEME GMBH
003036 (base 16) RMP ELEKTRONIKSYSTEME GMBH
HANNS-MARTIN-SCHLE'R-STR.12-14

DE

00-D0-81 (hex) RTD Embedded Technologies, Inc.
00D081 (base 16) RTD Embedded Technologies, Inc.
103 Innovation Blvd.
State College PA 16803
US

00-D0-02 (hex) DITECH CORPORATION
00D002 (base 16) DITECH CORPORATION
825 EAST MIDDLEFIELD RD
MOUNTAIN VIEW CA 94043
US

00-D0-48 (hex) ECTON, INC.
00D048 (base 16) ECTON, INC.
5168 CAMPUS DRIVE
PLYMOUTH MEETING PA 19462
US

00-D0-85 (hex) OTIS ELEVATOR COMPANY
00D085 (base 16) OTIS ELEVATOR COMPANY
5 FARM SPRINGS RD.
FARMINGTON CT 06032
US

00-D0-9B (hex) SPECTEL LTD.
00D09B (base 16) SPECTEL LTD.
21 STILLORGAN INDUSTRIAL PARK

IE

00-D0-11 (hex) PRISM VIDEO, INC.
00D011 (base 16) PRISM VIDEO, INC.
15851 DALLAS PARKWAY-STE.#1060
ADDISON TX 75001
US

00-D0-DF (hex) KUZUMI ELECTRONICS,
INC.
00D0DF (base 16) KUZUMI ELECTRONICS, INC.
28-6 IIJIMA-CHYO, SAKAE-KU

JP

00-D0-62 (hex) DIGIGRAM
00D062 (base 16) DIGIGRAM
PARC DE PRE MILLIET

FR

00-D0-67 (hex) CAMPIO COMMUNICATIONS
00D067 (base 16) CAMPIO COMMUNICATIONS
2033 GATEWAY PL, SUITE #600
SAN JOSE CA 95110
US

00-D0-58 (hex) Cisco Systems, Inc
00D058 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-D0-3D (hex) GALILEO TECHNOLOGY, LTD.
00D03D (base 16) GALILEO TECHNOLOGY, LTD.
MOSHAV MANOF

IL

00-D0-32 (hex) YANO ELECTRIC CO., LTD.
00D032 (base 16) YANO ELECTRIC CO., LTD.
7-3-1 IBUKIDAIHIGASHIMACHI

JP

00-D0-F1 (hex) SEGA ENTERPRISES, LTD.
00D0F1 (base 16) SEGA ENTERPRISES, LTD.
12-14 HIGASHIKOUJIYA 2-CHOME

JP

00-50-5E (hex) DIGITEK MICROLOGIC S.A.
00505E (base 16) DIGITEK MICROLOGIC S.A.
SANT JOAN DE LA SALLE 6

ES

00-50-90 (hex) DCTRI
005090 (base 16) DCTRI
NO.40 XUE YUAN RD

CN

00-50-3B (hex) MEDIAFIRE CORPORATION
00503B (base 16) MEDIAFIRE CORPORATION
11317 FREDERICK AVENUE
BELTSVILLE MD 20705
US

00-50-46 (hex) MENICX INTERNATIONAL CO., LTD.
005046 (base 16) MENICX INTERNATIONAL CO., LTD.
NO.9, MING TSUN ROAD
TAIWAN 310 TAIWAN 310 R.O.C.
TW

00-50-B0 (hex) TECHNOLOGY ATLANTA CORPORATION
0050B0 (base 16) TECHNOLOGY ATLANTA CORPORATION
500 Sugar Mill Road
Atlanta GA 30350

US

00-50-41 (hex) Coretronic Corporation
005041 (base 16) Coretronic Corporation
NO.11, LI HSIN RD.

TW

00-50-DD (hex) SERRA SOLDADURA, S.A.
0050DD (base 16) SERRA SOLDADURA, S.A.
POL. IND. ZONA FRANCA,

ES

00-D0-4C (hex) Eseye Design Ltd
00D04C (base 16) Eseye Design Ltd
20 Nugent Road, The Surrey Research Park
Surrey Guildford GU2 7AF
GB

00-D0-D9 (hex) DEDICATED
MICROCOMPUTERS
00D0D9 (base 16) DEDICATED MICROCOMPUTERS
1 Thellow Heath Park
Northwich CW9 6JB
GB

00-D0-E1 (hex) AVIONITEK ISRAEL INC.
00D0E1 (base 16) AVIONITEK ISRAEL INC.
1 ETGAR STREET

IL

00-D0-08 (hex) MACTELL CORPORATION
00D008 (base 16) MACTELL CORPORATION
7000 CAMERON ROAD
AUSTIN TX 78752
US

00-D0-0B (hex) RHK TECHNOLOGY, INC.
00D00B (base 16) RHK TECHNOLOGY, INC.
1050 EAST MAPLE ROAD
TROY MI 48083
US

00-D0-A0 (hex) MIPS DENMARK
00D0A0 (base 16) MIPS DENMARK
LAUTRUPVANG 2B

DK -
DK

00-D0-0A (hex) LANACCESS TELECOM S.A.
00D00A (base 16) LANACCESS TELECOM S.A.
GRAN VIA 8-10 4 1

ES

00-D0-2B (hex) JETCELL, INC.
00D02B (base 16) JETCELL, INC.
173 CONSTITUTION DRIVE
MENLO PARK CA 94025-1106
US

00-50-3E (hex) Cisco Systems, Inc
00503E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose
CA 94568
US

00-D0-3A (hex) ZONEWORX, INC.
00D03A (base 16) ZONEWORX, INC.
40925 COUNTY CENTER DRIVE
TEMECULA CA 92592
US

00-D0-01 (hex) VST TECHNOLOGIES, INC.
00D001 (base 16) VST TECHNOLOGIES, INC.
125 NAGOG PARK
ACTON MA 01720
US

00-50-20 (hex) MEDIASTAR CO., LTD.
005020 (base 16) MEDIASTAR CO., LTD.
3FL, SOHUN BLDG.
KOREA
KR

00-D0-75 (hex) ALARIS MEDICAL SYSTEMS, INC.
00D075 (base 16) ALARIS MEDICAL SYSTEMS, INC.
P.O. BOX 85335
SAN DIEGO CA 92121-2733
US

00-50-67 (hex) AEROCOMM, INC.
005067 (base 16) AEROCOMM, INC.

13256 W. 98TH STREET
LENEXA KS 66215
US

00-50-B6 (hex) GOOD WAY IND. CO., LTD.
0050B6 (base 16) GOOD WAY IND. CO., LTD.
5F, NO.8, ALLEY 6,
TAIWAN R.O.C.
TW

00-50-4B (hex) BARCONET N.V.
00504B (base 16) BARCONET N.V.
LUIPAARDSTRAAT 12

BE

00-50-EA (hex) XEL COMMUNICATIONS, INC.
0050EA (base 16) XEL
COMMUNICATIONS, INC.
17101 E. OHIO DRIVE
AURORA CO 80017
US

00-50-E8 (hex) Nomadix, Inc
0050E8 (base 16) Nomadix, Inc
21600 Oxnard St. 19th Floor,
Woodland Hills CA 91367
US

00-D0-8D (hex) PHOENIX GROUP, INC.
00D08D (base 16) PHOENIX GROUP, INC.
123 MARCUS BLVD.
HAUPPAUGE NY 11788
US

00-D0-9C (hex) KAPADIA COMMUNICATIONS
00D09C (base 16) KAPADIA COMMUNICATIONS
3925 WEST BROKER LANE
AUSTIN TX 78759
US

00-D0-F3 (hex) SOLARI DI UDINE SPA
00D0F3 (base 16) SOLARI DI UDINE SPA
VIA GINO PIERI 29

IT

00-D0-39 (hex) UTILICOM, INC.

00D039 (base 16) UTILICOM, INC.
323 LOVE PLACE
SANTA BARBARA CA 93112-3289
US

00-50-E7 (hex) PARADISE INNOVATIONS (ASIA)
0050E7 (base 16) PARADISE INNOVATIONS (ASIA)
PTE. LTD.
SINGAPORE 554914
SG

00-50-FB (hex) VSK ELECTRONICS
0050FB (base 16) VSK ELECTRONICS
VENETIELAAN 39

BE

00-50-F4
(hex) SIGMATEK GMBH & CO. KG
0050F4 (base 16) SIGMATEK GMBH & CO. KG
A-5112 LAMPRECHTSHAUSEN,

AT

00-50-21 (hex) EIS INTERNATIONAL, INC.
005021 (base 16) EIS INTERNATIONAL, INC.
1351 WASHINGTON BLVD.
STAMFORD CT 06902
US

00-D0-1C (hex) SBS TECHNOLOGIES,
00D01C (base 16) SBS TECHNOLOGIES,
CONNECTIVITY PRODUCTS
ST. PAUL MN 55121-1245
US

00-D0-D5 (hex) GRUNDIG AG
00D0D5 (base 16) GRUNDIG AG
KURGARTENSGTREET 37

DE

00-D0-6D (hex) ACRISON, INC.
00D06D (base 16) ACRISON, INC.
20 EMPIRE BLVD.
MOONACHIE NJ 07074
US

00-D0-41 (hex) AMIGO TECHNOLOGY CO., LTD.
00D041 (base 16) AMIGO TECHNOLOGY CO., LTD.
4F-1B, NO.12, LANE 609, SEC.5,
TAIWAN TAIWAN R.O.C.
TW

00-D0-9D (hex) VERIS INDUSTRIES
00D09D (base 16) VERIS INDUSTRIES
10831 SW CASCADE
PORTLAND OR 97223
US

00-50-C6 (hex) LOOP TELECOMMUNICATION INTERNATIONAL, INC.
0050C6
(base 16) LOOP TELECOMMUNICATION INTERNATIONAL, INC.
7F, No. 8, Hsin Ann Road
Hsinchu -
TW

00-50-9F (hex) HORIZON COMPUTER
00509F (base 16) HORIZON COMPUTER
TRINITY BLDG. 4-22-7
TOKYO 106
JP

00-50-A5 (hex) CAPITOL BUSINESS SYSTEMS, LTD.
0050A5 (base 16) CAPITOL BUSINESS SYSTEMS, LTD.
43/44 RIVERSIDE
ROCHESTER, KENT England ME2 4DP
GB

00-50-00 (hex) NEXO COMMUNICATIONS, INC.
005000 (base 16) NEXO COMMUNICATIONS, INC.
2ND FL., 160, MINGCHU ROAD
HSINCHU CITY
TW

00-50-C8 (hex) Addonics Technologies, Inc.
0050C8 (base 16) Addonics Technologies, Inc.
1918 Junction Ave.,
San Jose CA 95131
US

00-50-8D (hex) ABIT COMPUTER CORPORATION
00508D (base 16) ABIT COMPUTER CORPORATION
3F-7, NO. 79, SEC.1
TAIPEI HSIEN
TW

00-50-A0 (hex) DELTA COMPUTER SYSTEMS, INC.
0050A0 (base 16) DELTA COMPUTER SYSTEMS, INC.
11719 NE 95TH STREET - STE.
VANCOUVER
WA 98682-2444
US

00-50-86 (hex) TELKOM SA, LTD.
005086 (base 16) TELKOM SA, LTD.
TELKOM LABORATORY
PRETORIA
ZA

00-50-1A (hex) IQinVision
00501A (base 16) IQinVision
33122 Valle Road
San Juan Capistrano CA 92675-4853
US

00-50-8F (hex) ASITA TECHNOLOGIES INT'L LTD.
00508F (base 16) ASITA TECHNOLOGIES INT'L LTD.
UNIT 2 BALLYBRIT BUSINESS PARK

IE

00-50-15 (hex) BRIGHT STAR ENGINEERING
005015 (base 16) BRIGHT STAR ENGINEERING
19 ENFIELD DRIVE
ANDOVER MA 01810
US

00-50-89 (hex) SAFETY MANAGEMENT SYSTEMS
005089 (base 16) SAFETY MANAGEMENT SYSTEMS
Burgemeester Burgerslaan 40
NH Rosmalen 5245
NL

00-50-66 (hex) AtecoM GmbH advanced telecomunication modules
005066 (base 16) AtecoM GmbH advanced telecomunication modules
KAISERSTR. 100
D-52134 HERZOGENRATH
DE

00-50-59 (hex) iBAHN
005059 (base 16) iBAHN
10757 S. River Front Parkway
South

Jordan UT 84095
US

00-50-D9 (hex) ENGETRON-ENGENHARIA ELETRONICA IND. e COM. LTDA
0050D9 (base 16) ENGETRON-ENGENHARIA ELETRONICA IND. e COM. LTDA
VIA SOCRATES M. BITTENCOURT, 1099
32010-010 Contagem MG
BR

00-50-57 (hex) BROADBAND ACCESS SYSTEMS
005057 (base 16) BROADBAND ACCESS SYSTEMS
48 South Park St #208
Montclair NJ 01752
US

00-50-88 (hex) AMANO CORPORATION
005088 (base 16) AMANO CORPORATION
275, MAMEDO-CHO
222-8558
JP

00-50-31 (hex) AEROFLEX LABORATORIES, INC.
005031 (base 16) AEROFLEX LABORATORIES, INC.
35 SOUTH SERVICE ROAD
PLAINVIEW NY 11803
US

00-50-63 (hex) OY COMSEL SYSTEM AB
005063 (base 16) OY COMSEL SYSTEM AB
TEGELBRUKSGATAN 5-7
FIN-65100 VASA
FI

00-50-03 (hex) Xrite Inc
005003 (base 16) Xrite Inc
4300 44TH Street, S.E.
Grand Rapids MI 49512
US

00-50-D3 (hex) DIGITAL AUDIO PROCESSING PTY. LTD.
0050D3 (base 16) DIGITAL
AUDIO PROCESSING PTY. LTD.
PO BOX 40
NSW 2138
AU

00-50-AF (hex) INTERGON, INC.
0050AF (base 16) INTERGON, INC.

5800 RANCHESTER DRIVE
HOUSTON TX 77036
US

00-50-AD (hex) CommUnique Wireless Corp.
0050AD (base 16) CommUnique Wireless Corp.
1070 MARINA VILLAGE PARKWAY
ALAMEDA CA 94501
US

00-90-34 (hex) IMAGIC, INC.
009034 (base 16) IMAGIC, INC.
235 West Road #7
Portsmouth NH 03801
US

00-50-AE (hex) FDK Co., Ltd
0050AE (base 16) FDK Co., Ltd
2281 Washizu
Shizuoka-ken 431-0495
JP

00-90-73 (hex) GAIO TECHNOLOGY
009073 (base 16) GAIO TECHNOLOGY
OAK-YOKOHAMA BLDG.
NISHI-KU YOKOHAMA-CITY Kanagawa
JP

00-90-7B (hex) E-TECH, INC.
00907B (base 16) E-TECH, INC.
30, R&D ROAD 2
HSINCHU
TW

00-90-81 (hex) ALOHA NETWORKS, INC.
009081 (base 16) ALOHA NETWORKS, INC.
1001A O'REILLY AVENUE
SAN FRANCISCO CA 94129-0472
US

00-90-1C
(hex) mps Software Gmbh
00901C (base 16) mps Software Gmbh
LUDWIGSTR 36
85551 KIRCHHEIM
DE

00-90-DB (hex) NEXT LEVEL COMMUNICATIONS

0090DB (base 16) NEXT LEVEL COMMUNICATIONS
6085 STATE FARM DRIVE
ROHNERT PARK CA 94928
US

00-90-1A (hex) UNISPHERE SOLUTIONS
00901A (base 16) UNISPHERE SOLUTIONS
5 CARLISLE ROAD
WESTFORD MA 01886
US

00-90-B5 (hex) NIKON CORPORATION
0090B5 (base 16) NIKON CORPORATION
Electronic Imaging Division, Designing D
TOKYO 140-8601
JP

00-90-05 (hex) PROTECH SYSTEMS CO., LTD.
009005 (base 16) PROTECH SYSTEMS CO., LTD.
5F, NO. 34, LANE 80, SEC. 3
TAIPEI
TW

00-90-F8 (hex) MEDIATRIX TELECOM
0090F8 (base 16) MEDIATRIX TELECOM
4229 GARLOCK
QUEBEC J1L 2C8
CA

00-90-10 (hex) SIMULATION LABORATORIES, INC.
009010 (base 16) SIMULATION LABORATORIES, INC.
10078 TYLER PLACE #A
IJAMSVILLE MD 21754
US

00-90-C6
(hex) OPTIM SYSTEMS, INC.
0090C6 (base 16) OPTIM SYSTEMS, INC.
8201 GREENSBORO DR.-STE. #1000
MCLEAN VA 22102
US

00-90-CA (hex) ACCORD VIDEO TELECOMMUNICATIONS, LTD.
0090CA (base 16) ACCORD VIDEO TELECOMMUNICATIONS, LTD.
10, MARTIN GEHL STR, PO BOX 3564
Petach-Tikva 49130
IL

00-90-E9 (hex) JANZ COMPUTER AG
0090E9 (base 16) JANZ COMPUTER AG
Im Dörener Feld 8
D-33100 Paderborn
DE

00-90-37 (hex) ACUCOMM, INC.
009037 (base 16) ACUCOMM, INC.
4633 OLD IRONSIDES - STE #310
SANTA CLARA CA 95054
US

00-90-78 (hex) MER TELEMANAGEMENT SOLUTIONS, LTD.
009078 (base 16) MER TELEMANAGEMENT SOLUTIONS, LTD.
5 HATSOREF STR.
HOLON
IL

00-90-B8 (hex) ROHDE & SCHWARZ GMBH & CO. KG
0090B8 (base 16) ROHDE & SCHWARZ GMBH & CO. KG
POSTFACH: 80 14 69/ABT.: 3CK
D-81614 MUNCHEN
DE

00-90-5B (hex) RAYMOND AND LAE ENGINEERING
00905B (base 16) RAYMOND AND LAE ENGINEERING
208
COMMERCE DR., UNIT #3C
FORT COLLINS CO 80524
US

00-90-BC (hex) TELEMANN CO., LTD.
0090BC (base 16) TELEMANN CO., LTD.
6F DONGSIN BLDG.
SEOUL, 135-270
KR

00-90-0A (hex) PROTON ELECTRONIC INDUSTRIAL CO., LTD.
00900A (base 16) PROTON ELECTRONIC INDUSTRIAL CO., LTD.

PANCHIAO, Taipei County
TW

00-90-D5 (hex) EUPHONIX, INC.
0090D5 (base 16) EUPHONIX, INC.
220 PORTAGE AVE.
PALO ALTO CA 94306
US

00-90-4A (hex) CONCUR SYSTEM TECHNOLOGIES
00904A (base 16) CONCUR SYSTEM TECHNOLOGIES
2525 WALLINGWOOD DR.-STE. #804
AUSTIN TX 78746
US

00-90-EB (hex) SENTRY TELECOM SYSTEMS
0090EB (base 16) SENTRY TELECOM SYSTEMS
8664 COMMERCE COURT
BURNABY BC V5A 4N7
CA

00-90-FE (hex) ELECOM CO., LTD. (LANEED DIV.)
0090FE (base 16) ELECOM CO., LTD. (LANEED DIV.)
TOKYU BANCHO BLDG.
Chiyoda-ku TOKYO 102-0081
JP

00-90-59 (hex) TELECOM DEVICE K.K.
009059
(base 16) TELECOM DEVICE K.K.
SANMIYANAGA BLDG. 3F, 1-5-12
TOKYO 107
JP

00-90-2E (hex) NAMCO LIMITED
00902E (base 16) NAMCO LIMITED
1-1-32 SHIN-URASHIMA-CHO
KANAGAWA 221-0031
JP

00-90-8F (hex) AUDIO CODES LTD.
00908F (base 16) AUDIO CODES LTD.
3A NETANYAHU STREET
OR YEHUDA 60256
IL

00-90-AA (hex) INDIGO ACTIVE VISION SYSTEMS LIMITED
0090AA (base 16) INDIGO ACTIVE VISION SYSTEMS LIMITED
THE EDINBURGH TECHNOPOLE
Edinburgh EH26 OPJ
GB

00-90-5E (hex) RAULAND-BORG CORPORATION
00905E (base 16) RAULAND-BORG CORPORATION
3450 W. OAKTON ST.
SKOKIE IL 60076

US

00-90-AF (hex) J. MORITA MFG. CORP.
0090AF (base 16) J. MORITA MFG. CORP.
680 HIGASHIHAMA MINAMI-CHO
FUSHIMI-KU, KYOTO 612-8213
JP

00-90-BB (hex) TAINET COMMUNICATION SYSTEM Corp.
0090BB (base 16) TAINET COMMUNICATION SYSTEM Corp.
3 FL, NO. 6, ALLEY 23, LANE 91 SEC. 1
Taipei
TW

00-90-90
(hex) I-BUS
009090 (base 16) I-BUS
9174 SKY PARK COURT
SAN DIEGO CA 92123
US

00-90-56 (hex) TELESTREAM, INC.
009056 (base 16) TELESTREAM, INC.
848 GOLD FLAT RD., SUITE 1
NEVADA CITY CA 95959
US

00-90-68 (hex) DVT CORP.
009068 (base 16) DVT CORP.
1670 OAKBROOK DR. - STE. #330
NORCROSS GA 30093
US

00-10-A5 (hex) OXFORD INSTRUMENTS
0010A5 (base 16) OXFORD INSTRUMENTS
Halifax Road
Buckinghamshire HP12 3SE
GB

00-10-D7 (hex) ARGOSY RESEARCH INC.
0010D7 (base 16) ARGOSY RESEARCH INC.
NO. 44, LANE 411, CHUNG HUA RD

TW

00-10-92 (hex) NETCORE INC.
001092 (base 16) NETCORE INC.
12F-2, 537, SEC.2

HSINCHU
TW

00-10-1C (hex) OHM TECHNOLOGIES INTL, LLC
00101C (base 16) OHM TECHNOLOGIES INTL, LLC
4 EXECUTIVE CIRCLE, Suite 185
IRVINE CA 92614
US

00-10-46 (hex) ALCORN MCBRIDE INC.
001046 (base 16) ALCORN MCBRIDE INC.
3300
S. HIAWASSEE #105
ORLANDO FL 32835
US

00-90-74 (hex) ARGON NETWORKS, INC.
009074 (base 16) ARGON NETWORKS, INC.
25 PORTER ROAD
LITTLETON MA 01460
US

00-90-3B (hex) TriEMS Research Lab, Inc.
00903B (base 16) TriEMS Research Lab, Inc.
1275 N. TUSTIN AVENUE
ANAHEIM CA 92807
US

00-90-9F (hex) DIGI-DATA CORPORATION
00909F (base 16) DIGI-DATA CORPORATION
7165 Columbia Gateway Drive
Columbia MD 21045
US

00-90-19 (hex) HERMES ELECTRONICS CO., LTD.
009019 (base 16) HERMES ELECTRONICS CO., LTD.
3-2-12 YUSHIMA, BUNKYO-KU
TOKYO, 113-0034
JP

00-10-C9 (hex) MITSUBISHI ELECTRONICS LOGISTIC SUPPORT CO.
0010C9 (base 16) MITSUBISHI ELECTRONICS LOGISTIC SUPPORT CO.

Kamakura-city, Kanagawa 247
JP

00-04-00 (hex) LEXMARK INTERNATIONAL, INC.
000400 (base 16) LEXMARK INTERNATIONAL, INC.

740 NEW CIRCLE ROAD
LEXINGTON KY 40550
US

00-10-C5 (hex) PROTOCOL
TECHNOLOGIES, INC.
0010C5 (base 16) PROTOCOL TECHNOLOGIES, INC.
4 FIRST STREET
BRIDGEWATER MA 02324
US

00-10-1A (hex) PictureTel Corp.
00101A (base 16) PictureTel Corp.
100 MINUTEMAN ROAD, MS641
ANDOVER MA 01810
US

00-10-B7 (hex) COYOTE TECHNOLOGIES, LLC
0010B7 (base 16) COYOTE TECHNOLOGIES, LLC
4360 PARK TERRACE DRIVE
WESTLAKE VILLAGE CA 91361
US

00-10-28 (hex) COMPUTER TECHNICA, INC.
001028 (base 16) COMPUTER TECHNICA, INC.
3-5-19 HIGASHINAKA HAKATA-KU
FUKUOKA 816
JP

00-10-2C (hex) Lasat Networks A/S
00102C (base 16) Lasat Networks A/S
Skalhuse 13
SK-9240 Nibe
DK

00-10-FD (hex) COCOM A/S
0010FD (base 16) COCOM A/S
TELETONVEJ 8
DK 2860 SOBORG
DK

00-10-47 (hex) ECHO ELETRIC CO. LTD.
001047 (base 16) ECHO ELETRIC CO. LTD.
NO.6-17-1-602 Higashi Hongou
Yokohama City 226
JP

00-90-3F (hex) WorldCast Systems

00903F
(base 16) WorldCast Systems
20 Avenue Neil Armstrong
Mérignac 33700
FR

00-10-43 (hex) A2 CORPORATION
001043 (base 16) A2 CORPORATION
1-7-1 Togoshi
Tokyo Shinagawa-ku 1420041
JP

00-90-D8 (hex) WHITECROSS SYSTEMS
0090D8 (base 16) WHITECROSS SYSTEMS
3A WATERSIDE PARK, COOKHAM RD
BERKSHIRE RG12 1RB
GB

00-90-E5 (hex) TEKNEMA, INC.
0090E5 (base 16) TEKNEMA, INC.
2656 E. BAYSHORE ROAD
PALO ALTO CA 94303
US

00-90-F4 (hex) LIGHTNING INSTRUMENTATION
0090F4 (base 16) LIGHTNING INSTRUMENTATION
BOVERESSES 50
1010 LAUSANNE
CH

00-10-9E (hex) AWARE, INC.
00109E (base 16) AWARE, INC.
ONE OAK PARK
BEDFORD MA 01730
US

00-10-05 (hex) UEC COMMERCIAL
001005 (base 16) UEC COMMERCIAL
P.O. BOX 54,
4300 DURBAN
ZA

00-10-B8 (hex) ISHIGAKI COMPUTER SYSTEM CO.
0010B8 (base 16) ISHIGAKI COMPUTER SYSTEM CO.
1-1-1, KYOBASHI,
Tokyo
JP

00-10-8B
(hex) LASERANIMATION SOLLINGER GMBH
00108B (base 16) LASERANIMATION SOLLINGER GMBH
CRELLESTR. 19/20
D 10827 BERLIN
DE

00-10-C7 (hex) DATA TRANSMISSION NETWORK
0010C7 (base 16) DATA TRANSMISSION NETWORK
9110 W. DODGE RD. - STE.#200
OMAHA NE 68114
US

00-10-4E (hex) CEOLOGIC
00104E (base 16) CEOLOGIC
ZA DE PISSALOOP
78192 TRAPPES
FR

00-10-74 (hex) ATEN INTERNATIONAL CO., LTD.
001074 (base 16) ATEN INTERNATIONAL CO., LTD.
12F, NO.101, SUNG CHIANG RD.
TAIPEI, 10428
TW

00-10-70 (hex) CARADON TREND LTD.
001070 (base 16) CARADON TREND LTD.
P.O. BOX 34, HORSHAM
WEST SUSSEX, RH12 2YF ENGLAND
GB

00-10-BA (hex) MARTINHO-DAVIS SYSTEMS, INC.
0010BA (base 16) MARTINHO-DAVIS SYSTEMS, INC.
1260 OLD INNES ROAD
OTTAWA, ONTARIO K1B 3V3
CA

00-10-C2 (hex) WILLNET, INC.
0010C2 (base 16) WILLNET, INC.
JOWA-TAKANAWA BLDG. 8F
TOKYO
JP

00-10-40
(hex) INTERMEC CORPORATION
001040 (base 16) INTERMEC CORPORATION
6001 36TH AVE WEST
EVERETT WA 98203-9280

US

00-10-2E (hex) NETWORK SYSTEMS & TECHNOLOGIES PVT. LTD.
00102E (base 16) NETWORK SYSTEMS & TECHNOLOGIES PVT. LTD.
PLOT NO. 2, COCHIN EXPORT PROCESSING ZO
KAKKANAD, COCHIN 682 030
IN

00-10-B0 (hex) MERIDIAN TECHNOLOGY CORP.
0010B0 (base 16) MERIDIAN TECHNOLOGY CORP.
11 MCBRIDE CORP. CENTER DR.
CHESTERFIELD MD 63005
US

00-10-67 (hex) Ericsson
001067 (base 16) Ericsson
250 Holger Way
SAN JOSE CA 95134
US

00-10-21 (hex) ENCANTO NETWORKS, INC.
001021 (base 16) ENCANTO NETWORKS, INC.
2953 BUNKER HILL LANE
SANTA CLARA CA 95054
US

00-10-64 (hex) DNPG, LLC
001064 (base 16) DNPG, LLC
20 North Wentworth Avenue
Londonderry NH 03053
US

00-04-AC (hex) IBM Corp
0004AC (base 16) IBM Corp
3039 E Cornwallis Road
Research Triangle
Park NC 27709-2195
US

00-10-B4 (hex) ATMOSPHERE NETWORKS
0010B4 (base 16) ATMOSPHERE NETWORKS
10460 BANDLEY DRIVE
CUPERTINO CA 95014
US

00-E0-5D (hex) UNITEC CO., LTD.
00E05D (base 16) UNITEC CO., LTD.
KISOGAWA-CHO ICHINOTORI 24

HAGURI-GUN AICHI 493
JP

00-E0-5E (hex) JAPAN AVIATION ELECTRONICS INDUSTRY, LTD.
00E05E (base 16) JAPAN AVIATION ELECTRONICS INDUSTRY, LTD.

TOKYO 196 JAPAN
JP

00-E0-9D (hex) SARNOFF CORPORATION
00E09D (base 16) SARNOFF CORPORATION
CN 5300
PRINCETON NJ 08543-5300
US

00-E0-8C (hex) NEOPARADIGM LABS, INC.
00E08C (base 16) NEOPARADIGM LABS, INC.
1735 N. FIRST ST., STE #108
SAN JOSE CA 95112
US

00-E0-7D (hex) NETRONIX, INC.
00E07D (base 16) NETRONIX, INC.
340 THOR PLACE
BREA CA 92821
US

00-E0-D2 (hex) VERSANET COMMUNICATIONS, INC.
00E0D2 (base 16) VERSANET COMMUNICATIONS, INC.
628 N. DIAMOND BAR BLVD.
DIAMOND
BAR CA 91765
US

00-E0-47 (hex) InFocus Corporation
00E047 (base 16) InFocus Corporation
27500 SW Parkway Avenue
Wilsonville OR 97070-8238
US

00-E0-C3 (hex) SAKAI SYSTEM DEVELOPMENT CORP.
00E0C3 (base 16) SAKAI SYSTEM DEVELOPMENT CORP.
PORTUS CENTER BLD., 4-45-1
OSAKA-FU, 590
JP

00-E0-92 (hex) ADMTEK INCORPORATED
00E092 (base 16) ADMTEK INCORPORATED

1962 ZANKER ROAD
SAN JOSE CA 95112
US

00-E0-FF (hex) SECURITY DYNAMICS TECHNOLOGIES, Inc.
00E0FF (base 16) SECURITY DYNAMICS TECHNOLOGIES, Inc.
20 CROSBY DRIVE
BEDFORD MA 01730
US

00-E0-AB (hex) DIMAT S.A.
00E0AB (base 16) DIMAT S.A.
C/BISCAIA 383 3
08023 BARCELONA
ES

00-E0-30 (hex) MELITA INTERNATIONAL CORP.
00E030 (base 16) MELITA INTERNATIONAL CORP.
5051 PEACHTREE CORNERS CIRCLE
NORCROSS GA 30092
US

00-E0-28 (hex) APTIX CORPORATION
00E028 (base 16) APTIX CORPORATION
2880
N. FIRST STREET
SAN JOSE CA 95134
US

00-E0-A1 (hex) HIMA PAUL HILDEBRANDT GmbH Co. KG
00E0A1 (base 16) HIMA PAUL HILDEBRANDT GmbH Co. KG
POSTBOX 1261
D-68777 BRUEHL NEAR MANNHEIM
DE

00-E0-88 (hex) LTX-Credence CORPORATION
00E088 (base 16) LTX-Credence CORPORATION
825 UNIVERSITY AVENUE
NORWOOD MA 02062-2643
US

00-E0-F2 (hex) ARLOTTO COMNET, INC.
00E0F2 (base 16) ARLOTTO COMNET, INC.
7F-4,55,TUNG-KUANG ROAD
HSIN-CHU, 300
TW

00-E0-46 (hex) BENTLY NEVADA CORP.

00E046 (base 16) BENTLY NEVADA CORP.
PO BOX 157
MINDEN NV 89423
US

00-E0-58 (hex) PHASE ONE DENMARK A/S
00E058 (base 16) PHASE ONE DENMARK A/S
ROSKILDEVEJ 39
DK-2000 FREDERIKSBERG
DK

00-E0-76 (hex) DEVELOPMENT CONCEPTS, INC.
00E076 (base 16) DEVELOPMENT CONCEPTS, INC.
1000 N. BROAD STREET
LANSDALE PA 19446
US

00-E0-F8 (hex) DICNA CONTROL AB
00E0F8 (base 16) DICNA CONTROL
AB
STENYXEGATAN 21 C
213 76 MALMOE
SE

00-E0-AA (hex) ELECTROSONIC LTD.
00E0AA (base 16) ELECTROSONIC LTD.
HAWLEY MILL, HAWLEY RD.
DARTFORD, KENT DA2 7SY
GB

00-E0-10 (hex) HESS SB-AUTOMATENBAU GmbH
00E010 (base 16) HESS SB-AUTOMATENBAU GmbH
HINDENBURGSTRASSE 27-29
D-71106 MAGSTADT
DE

00-E0-33 (hex) E.E.P.D. GmbH
00E033 (base 16) E.E.P.D. GmbH
ROEMER-STRASSE 4
85229 MARKT INDERSDORF
DE

00-E0-A2 (hex) MICROSLATE INC.
00E0A2 (base 16) MICROSLATE INC.
9625 IGNACE - STE. D
BROSSARD QC J4Y 2P3
CA

00-E0-79 (hex) A.T.N.R.
00E079 (base 16) A.T.N.R.
BP 966
91976 COURTABOEUF
FR

00-E0-7B (hex) BAY NETWORKS
00E07B (base 16) BAY NETWORKS
125 NAGOG PARK
ACTON MA 01720
US

00-E0-1D (hex) WebTV NETWORKS, INC.
00E01D (base 16) WebTV NETWORKS, INC.
305 LYTTON AVE.
PALO ALTO CA 94301
US

00-E0-E1 (hex) G2 NETWORKS, INC.
00E0E1
(base 16) G2 NETWORKS, INC.
142 SO. SANTA CRUZ AVE.
LOS GATOS CA 95030-6702
US

00-E0-8D (hex) PRESSURE SYSTEMS, INC.
00E08D (base 16) PRESSURE SYSTEMS, INC.
34 RESEARCH DRIVE
HAMPTON VA 23666
US

00-E0-3D (hex) FOCON ELECTRONIC SYSTEMS A/S
00E03D (base 16) FOCON ELECTRONIC SYSTEMS A/S
DAMVANG, PO BOX 269
DK-6400 SONDERBORG
DK

00-E0-19 (hex) ING. GIORDANO ELETTRONICA
00E019 (base 16) ING. GIORDANO ELETTRONICA
VIA PIETRO COSSA 115/12
10146-TORINO
IT

00-60-B3 (hex) Z-COM, INC.
0060B3 (base 16) Z-COM, INC.
7F-2, NO.9, PROSPERITY 1ST RD.
HSINCHU
TW

00-60-02 (hex) SCREEN SUBTITLING SYSTEMS, LTD
006002 (base 16) SCREEN SUBTITLING SYSTEMS, LTD
THE OLD RECTORY
CLAYDON IPSWICH IP6 OEQ
GB

00-60-89 (hex) XATA
006089 (base 16) XATA
151 EAST CLIFF ROAD-STE.#10
BURNSVILLE MN 55337
US

00-60-21 (hex) DSC CORPORATION
006021
(base 16) DSC CORPORATION
RECRUIT-SHINOHTSUKA BLDG.,
TOKYO 170
JP

00-60-B8 (hex) CORELIS Inc.
0060B8 (base 16) CORELIS Inc.
12607 Hiddencreek Way
Cerritos CA 90703
US

00-60-AD (hex) MegaChips Corporation
0060AD (base 16) MegaChips Corporation
4-1-6,Miyahara
Osaka 532-0003
JP

00-60-55 (hex) CORNELL UNIVERSITY
006055 (base 16) CORNELL UNIVERSITY
729 Rhodes Hall
ITHACA NY 14850-4902
US

00-E0-75 (hex) Verilink Corporation
00E075 (base 16) Verilink Corporation
127 Jetplex Circle
Madison AL 35758
US

00-E0-2E (hex) SPC ELECTRONICS CORPORATION
00E02E (base 16) SPC ELECTRONICS CORPORATION
2-1-3 SHIBASAKI, CHOFU-SHI
TOKYO, 182

JP

00-E0-3E (hex) ALFATECH, INC.
00E03E (base 16) ALFATECH, INC.
SHIN-OSAKA EITO BLDG.
OSAKA
JP

00-E0-9A (hex) Positron Inc.
00E09A (base 16) Positron Inc.
5101 Buchan Street
Montreal, Québec H4P
2R9
CA

00-60-39 (hex) SanCom Technology, Inc.
006039 (base 16) SanCom Technology, Inc.
7719 WOOD HOLLOW DRIVE
AUSTIN TX 78731
US

00-60-49 (hex) VINA TECHNOLOGIES
006049 (base 16) VINA TECHNOLOGIES
6 UNION SQUARE - STE F
UNION CITY CA 94587
US

00-60-8D (hex) UNIPULSE CORP.
00608D (base 16) UNIPULSE CORP.
2-7, SENGENDAI-NISHI
SAITAMA 343
JO

00-60-99 (hex) SBE, Inc.
006099 (base 16) SBE, Inc.
4000 Executive Parkway
San Ramon CA 94583
US

00-60-98 (hex) HT COMMUNICATIONS
006098 (base 16) HT COMMUNICATIONS
4480 SHOPPING LANE
SIMI VALLEY CA 93063
US

00-60-DE (hex) Kayser-Threde GmbH
0060DE (base 16) Kayser-Threde GmbH
Wolfratshauser Str. 48

D-81379 Munich
DE

00-60-9C (hex) Perkin-Elmer Incorporated
00609C (base 16) Perkin-Elmer Incorporated
710 Bridgeport Ave.
Shelton CT 06484
US

00-60-CF (hex) ALTEON NETWORKS, INC.
0060CF
(base 16) ALTEON NETWORKS, INC.
50 GREAT OAKS BLVD.
SAN JOSE CA 95119
US

00-60-75 (hex) PENTEK, INC.
006075 (base 16) PENTEK, INC.
1 PARK WAY
UPPER SADDLE RIVER NJ 07458
US

00-60-15 (hex) NET2NET CORPORATION
006015 (base 16) NET2NET CORPORATION
131 COOLIDGE STREET
HUDSON MA 01749
US

00-60-9E (hex) ASC X3 - INFORMATION TECHNOLOGY STANDARDS SECRETARIATS
00609E (base 16) ASC X3 - INFORMATION TECHNOLOGY STANDARDS SECRETARIATS
1250 EYE STREET NW - STE #200
WASHINGTON DC 20005
US

00-60-10 (hex) NETWORK MACHINES, INC.
006010 (base 16) NETWORK MACHINES, INC.
255 OLD NEW BRUNSWICK RD., # N320
PISCATAWAY NJ 08854
US

00-60-44 (hex) LITTON/POLY-SCIENTIFIC
006044 (base 16) LITTON/POLY-SCIENTIFIC
2200 SOUTH MAIN STREET
BLACKSBURG VA 24060
US

00-60-A2 (hex) NIHON UNISYS LIMITED CO.
0060A2 (base 16) NIHON UNISYS LIMITED CO.

P.O. BOX 135
SHINONOME 1-10-9

JP

00-60-9D (hex) PMI FOOD EQUIPMENT GROUP
00609D (base 16) PMI FOOD EQUIPMENT GROUP
701 RIDGE AVENUE
TROY OH 45374
US

00-60-84 (hex) DIGITAL VIDEO
006084 (base 16) DIGITAL VIDEO
4920 AVALON RIDGE PKWY
NORCROSS GA 30092
US

00-60-2D (hex) ALERTON TECHNOLOGIES, INC.
00602D (base 16) ALERTON TECHNOLOGIES, INC.
6670 185TH AVE. N.E.
REDMOND WA 98052
US

00-60-F8 (hex) Loran International Technologies Inc.
0060F8 (base 16) Loran International Technologies Inc.
955 GREEN VALLEY CRESCENT
OTTAWA, ONTARIO K2C 3V4
CA

00-60-B9 (hex) NEC Platforms, Ltd
0060B9 (base 16) NEC Platforms, Ltd
2-6-1,Kitamikata,Takatsu-ku
Kawasaki 213-8511
JP

00-60-36 (hex) AIT Austrian Institute of Technology GmbH
006036 (base 16) AIT Austrian Institute of Technology GmbH
Donau-City-Straße 1
Vienna 1220
AT

00-60-8E (hex) HE ELECTRONICS, TECHNOLOGIE & SYSTEMTECHNIK GmbH
00608E
(base 16) HE ELECTRONICS, TECHNOLOGIE & SYSTEMTECHNIK GmbH
AM GNEISENAUFLOT 8
D-66538 NEUNHIRCHEN
DE

00-60-6A (hex) MITSUBISHI WIRELESS COMMUNICATIONS. INC.
00606A (base 16) MITSUBISHI WIRELESS COMMUNICATIONS. INC.
2001 CHERRY DRIVE
BRASELTON GA 30517
US

00-60-1A (hex) KEITHLEY INSTRUMENTS
00601A (base 16) KEITHLEY INSTRUMENTS
30500 BAINBRIDGE RD.
SOLON OH 44139
US

00-60-F6 (hex) NEXTEST COMMUNICATIONS PRODUCTS, INC.
0060F6 (base 16) NEXTEST COMMUNICATIONS PRODUCTS, INC.
TWO MID AMERICA PLAZA, STE.500
OAKBROOK TERRACE IL 60181
US

00-60-72 (hex) VXL INSTRUMENTS, LIMITED
006072 (base 16) VXL INSTRUMENTS, LIMITED
PLOT NO. 17, KONAPPANA AGRAHARA
BANGALORE - 561 229
IN

00-60-51 (hex) QUALITY SEMICONDUCTOR
006051 (base 16) QUALITY SEMICONDUCTOR
851 MARTIN AVENUE
SANTA CLARA CA 95050
US

00-60-92 (hex) MICRO/SYS, INC.
006092 (base 16) MICRO/SYS,
INC.
3447 OCEAN VIEW BLVD.
GLENDALE CA 91208
US

00-60-BA (hex) SAHARA NETWORKS, INC.
0060BA (base 16) SAHARA NETWORKS, INC.
335 HIGHLAND AVE.
CHESHIRE CT 06410
US

00-60-6D (hex) DIGITAL EQUIPMENT CORP.
00606D (base 16) DIGITAL EQUIPMENT CORP.
550 KING STREET
LITTLETON MA 01460
US

00-60-CE (hex) ACCLAIM COMMUNICATIONS
0060CE (base 16) ACCLAIM COMMUNICATIONS
5000 OLD IRONSIDES DRIVE
SANTA CLARA CA 95054
US

00-60-AF (hex) PACIFIC MICRO DATA, INC.
0060AF (base 16) PACIFIC MICRO DATA, INC.
16751 MILLIKAN AVENUE
IRVINE CA 92714
US

00-60-38 (hex) Nortel Networks
006038 (base 16) Nortel Networks
Global Operations Engineering
Brampton ON l6T 5P6 Cana
CA

00-60-CA (hex) HARMONIC SYSTEMS INCORPORATED
0060CA (base 16) HARMONIC SYSTEMS INCORPORATED
199 1ST STREET - STE #302
LOS ALTOS CA 94022
US

00-60-24 (hex) GRADIENT TECHNOLOGIES, INC.
006024
(base 16) GRADIENT TECHNOLOGIES, INC.
2 MOUNT ROYAL AVENUE
MARLBORO MA 01752
US

00-60-78 (hex) POWER MEASUREMENT LTD.
006078 (base 16) POWER MEASUREMENT LTD.
2195 KEATING CROSS ROAD
SAANICHTON, B.C. V8M 2A5
CA

00-60-04 (hex) COMPUTADORES MODULARES SA
006004 (base 16) COMPUTADORES MODULARES SA
AVDA MONTESIERRA S/N
41020-SEVILLA
ES

00-60-B4 (hex) GLENAYRE R&D INC.
0060B4 (base 16) GLENAYRE R&D INC.
1570 KOOTENAY STREET
VANCOUVER, BC V5K 5B8

CA

00-A0-1D (hex) Red Lion Controls, LP
00A01D (base 16) Red Lion Controls, LP
20 Willow Springs Circle
York NY 17402
US

00-60-D0 (hex) SNMP RESEARCH INCORPORATED
0060D0 (base 16) SNMP RESEARCH INCORPORATED
3001 KIMBERLIN HEIGHTS ROAD
KNOXVILLE TN 37920-9716
US

00-60-B7 (hex) CHANNELMATIC, INC.
0060B7 (base 16) CHANNELMATIC, INC.
1700 GILLESPIE WAY
EL CAJON CA 92020-0901
US

00-60-06
(hex) SOTEC CO., LTD
006006 (base 16) SOTEC CO., LTD
YOKOHAMA BASHAMICHI BLDG.,
YOKOHAMA 231
JP

00-A0-B9 (hex) EAGLE TECHNOLOGY, INC.
00A0B9 (base 16) EAGLE TECHNOLOGY, INC.
6800 ORANGETHORPE AVE.UNIT
BUENA PARK CA 90620
US

00-A0-19 (hex) NEBULA CONSULTANTS, INC.
00A019 (base 16) NEBULA CONSULTANTS, INC.
1449 DUNCAN DRIVE
DELTA, BC V4L 1R5
CA

00-A0-ED (hex) Brooks Automation, Inc.
00A0ED (base 16) Brooks Automation, Inc.
15 Elizabeth Drive
Chelmsford MA 01824
US

00-60-4F (hex) Tattile SRL
00604F (base 16) Tattile SRL
552-51 AJIGAURA

IBARAKI, 311-12
JP

00-60-E8 (hex) HITACHI COMPUTER PRODUCTS (AMERICA), INC.
0060E8 (base 16) HITACHI COMPUTER PRODUCTS (AMERICA), INC.
3101 TASMAN DRIVE
SANTA CLARA CA 95054
US

00-A0-65 (hex) Symantec Corporation
00A065 (base 16) Symantec Corporation
20330 Stevens Creek Blvd.
Cupertino CA 95014
US

00-A0-A3
(hex) RELIABLE POWER METERS
00A0A3 (base 16) RELIABLE POWER METERS
400 BLOSSOM HILL ROAD
LOS GATOS CA 95032-4511
US

00-A0-55 (hex) Data Device Corporation
00A055 (base 16) Data Device Corporation
105 Wilbur Place
Bohemia NY 11716
US

00-A0-74 (hex) PERCEPTION TECHNOLOGY
00A074 (base 16) PERCEPTION TECHNOLOGY
40 SHAWMUT ROAD
CANTON MA 02021-1409
US

00-A0-7F (hex) GSM-SYNTEL, LTD.
00A07F (base 16) GSM-SYNTEL, LTD.
VICTORIA WORKS, QUEENS MILL RD
HD1 3PG ENGLAND
GB

00-A0-D0 (hex) TEN X TECHNOLOGY, INC.
00A0D0 (base 16) TEN X TECHNOLOGY, INC.
13091 POND SPRINGS ROAD, Suite B-200
AUSTIN TX 78729
US

00-A0-BC (hex) VIASAT, INCORPORATED
00A0BC (base 16) VIASAT, INCORPORATED

6155 El Camino Real
Carlsbad Ca 92009
US

00-A0-A6 (hex) M.I. SYSTEMS, K.K.
00A0A6 (base 16) M.I. SYSTEMS, K.K.
2-7-12-308 Satsukigaoka
Ikeda-Shi Osaka 563-0029
JP

00-A0-51
(hex) ANGIA COMMUNICATIONS. INC.
00A051 (base 16) ANGIA COMMUNICATIONS. INC.
441 EAST BAY BLVD.
PROVO UTAH 84606
US

00-A0-13 (hex) TELTREND LTD.
00A013 (base 16) TELTREND LTD.
RINGWAY HOUSE, BELL ROAD
BASINGSTOKE HAMPSHIRE RG24 8F
GB

00-A0-29 (hex) COULTER CORPORATION
00A029 (base 16) COULTER CORPORATION
11800 S.W. 147TH AVE.
MIAMI FL 33196
US

00-A0-87 (hex) Microsemi Corporation
00A087 (base 16) Microsemi Corporation
400 March Road
Ontario K2K 3H4
CA

00-A0-43 (hex) AMERICAN TECHNOLOGY LABS, INC.
00A043 (base 16) AMERICAN TECHNOLOGY LABS, INC.
115 WEST 3RD STREET
STEVENSVILLE MT 59870
US

00-A0-A0 (hex) COMPACT DATA, LTD.
00A0A0 (base 16) COMPACT DATA, LTD.
58 DITTON WALK
CAMBRIDGE CB5 8QE
GB

00-A0-5B (hex) MARQUIP, INC.

00A05B (base 16) MARQUIP, INC.
1245 E. WASHINGTON AVE.
MADISON WI 53703
US

00-A0-8C
(hex) MultiMedia LANs, Inc.
00A08C (base 16) MultiMedia LANs, Inc.
5600 EXECUTIVE CENTER DRIVE
CHARLOTTE NC 28212
US

00-A0-38 (hex) EMAIL ELECTRONICS
00A038 (base 16) EMAIL ELECTRONICS
P.O. BOX 154
MOOROOLBARK, 3138
AU

00-A0-77 (hex) FUJITSU NEXION, INC.
00A077 (base 16) FUJITSU NEXION, INC.
289 GREAT ROAD
ACTON MA 01720-4739
US

00-A0-D7 (hex) KASTEN CHASE APPLIED RESEARCH
00A0D7 (base 16) KASTEN CHASE APPLIED RESEARCH
5100 ORBITOR DRIVE
L4W 4Z4
CA

00-A0-F1 (hex) MTI
00A0F1 (base 16) MTI
4905 E. LA PALMA AVENUE
ANAHEIM CA 92807
US

00-A0-FF (hex) TELLABS OPERATIONS, INC.
00A0FF (base 16) TELLABS OPERATIONS, INC.
1000 REMINGTON BLVD.
60440
US

00-A0-E5 (hex) NHC COMMUNICATIONS
00A0E5 (base 16) NHC COMMUNICATIONS
5450 COTE DE LIESSE
MONTREAL, QUEBEC H4P 1A5
CA

00-A0-36 (hex) APPLIED NETWORK TECHNOLOGY
00A036 (base 16) APPLIED
NETWORK TECHNOLOGY
319 LITTLETON ROAD--STE #101
WESTFORD MA 01886-4133
US

00-A0-D2 (hex) ALLIED TELESIS INTERNATIONAL CORPORATION
00A0D2 (base 16) ALLIED TELESIS INTERNATIONAL CORPORATION
950 KIFER ROAD
SUNNYVALE CA 94086
US

00-A0-D3 (hex) INSTEM COMPUTER SYSTEMS, LTD.
00A0D3 (base 16) INSTEM COMPUTER SYSTEMS, LTD.
WALTON INDUSTRIAL ESTATE

GB

00-A0-B4 (hex) TEXAS MICROSYSTEMS, INC.
00A0B4 (base 16) TEXAS MICROSYSTEMS, INC.
5959 CORPORATE DRIVE
HOUSTON TX 77036
US

00-A0-3B (hex) TOSHIN ELECTRIC CO., LTD.
00A03B (base 16) TOSHIN ELECTRIC CO., LTD.
3FL. RIVER-STONE 3RD. BLG.234
213
JP

00-A0-F3 (hex) STAUBLI
00A0F3 (base 16) STAUBLI
183 RUE DES USINES

FR

00-A0-42 (hex) SPUR PRODUCTS CORP.
00A042 (base 16) SPUR PRODUCTS CORP.
9288 W. EMERALD STREET
BOISE ID 83704
US

00-A0-C1 (hex) ORTIVUS MEDICAL AB
00A0C1 (base 16) ORTIVUS
MEDICAL AB
BOX 513

SE

00-A0-4F (hex) AMERITEC CORP.
00A04F (base 16) AMERITEC CORP.
760 ARROW GRAND CIRCLE
COVINA CA 91722
US

00-A0-CF (hex) SOTAS, INC.
00A0CF (base 16) SOTAS, INC.
2 RESEARCH PLACE, STE.
ROCKVILLE MD 20850
US

00-A0-72 (hex) OVATION SYSTEMS LTD.
00A072 (base 16) OVATION SYSTEMS LTD.
GREAT HASELEY TRAD. EST.
ENGLAND
GB

00-A0-82 (hex) NKT ELEKTRONIK A/S
00A082 (base 16) NKT ELEKTRONIK A/S
NKT ALLE 85

DK

00-A0-F0 (hex) TORONTO MICROELECTRONICS INC.
00A0F0 (base 16) TORONTO MICROELECTRONICS INC.
5149 BRADCO BOULEVARD
L4W 2A6
CA

00-A0-9B (hex) QPSX COMMUNICATIONS, LTD.
00A09B (base 16) QPSX COMMUNICATIONS, LTD.
33 RICHARDSON STREET
Western 00000
AU

00-A0-00 (hex) CENTILLION NETWORKS, INC.
00A000 (base 16) CENTILLION NETWORKS, INC.
359 RAVENDALE DRIVE
MOUNTAIN VIEW CA 94043
US

00-A0-8A
(hex) BROOKTROUT TECHNOLOGY, INC.
00A08A (base 16) BROOKTROUT TECHNOLOGY, INC.
144 GOULD STREET- SUITE #200

NEEDHAM MA 02194
US

00-A0-7B (hex) DAWN COMPUTER INCORPORATION
00A07B (base 16) DAWN COMPUTER INCORPORATION
6 KEXUEYUAN SOUTH ROAD

CN

00-A0-5C (hex) INVENTORY CONVERSION, INC./
00A05C (base 16) INVENTORY CONVERSION, INC./
NEKOTECH DIVISION
HAMPTON NH 03842
US

00-20-0F (hex) EBRAINS Inc
00200F (base 16) EBRAINS Inc
Tachibana Bldg
Taito-ku Tokyo 110-0003
JP

00-20-DF (hex) KYOSAN ELECTRIC MFG. CO., LTD.
0020DF (base 16) KYOSAN ELECTRIC MFG. CO., LTD.
2-29, HEIAN-CHO, TSURUMI-KU

JP

00-20-C7 (hex) AKAI Professional M.I. Corp.
0020C7 (base 16) AKAI Professional M.I. Corp.
1-3, Hiranuma 1-Chome,
220-0023
JP

00-20-92 (hex) CHESS ENGINEERING B.V.
002092 (base 16) CHESS ENGINEERING B.V.
NIEUWE GRACHT 74

NL

00-20-2B
(hex) ADVANCED TELECOMMUNICATIONS MODULES, LTD.
00202B (base 16) ADVANCED TELECOMMUNICATIONS MODULES, LTD.

Cambridge CB3 OBL
GB

00-20-6B (hex) KONICA MINOLTA HOLDINGS, INC.
00206B (base 16) KONICA MINOLTA HOLDINGS, INC.

1-6-1, Marunouchi,
Tokyo 100-0005
JP

00-A0-60 (hex) ACER PERIPHERALS, INC.
00A060 (base 16) ACER PERIPHERALS, INC.
9F, 135 CHIAN KUO N. RD. SEC 2

TW

00-A0-83 (hex) ASIMMPHONY TURKEY
00A083 (base 16) ASIMMPHONY TURKEY
ELECTRONICS, LTD.
V7C 4N1
CA

00-A0-04 (hex) NETPOWER, INC.
00A004 (base 16) NETPOWER, INC.
545 OAKMEAD PARKWAY
SUNNYVALE CA 94086
US

00-20-87 (hex) MEMOTEC, INC.
002087 (base 16) MEMOTEC, INC.
7755 Henri-Bourassa
MONTREAL, QUEBEC H4S 1P7
CA

00-20-F9 (hex) PARALINK NETWORKS, INC.
0020F9 (base 16) PARALINK NETWORKS, INC.
4F, NO. 27, SEC.3, PATEH RD.
TAIPEI
TW

00-A0-AA (hex) SPACELABS MEDICAL
00A0AA
(base 16) SPACELABS MEDICAL
5150 220 Ave SE
Issaquah WA 98027
US

00-20-06 (hex) GARRETT COMMUNICATIONS, INC.
002006 (base 16) GARRETT COMMUNICATIONS, INC.
48531 WARMSPRINGS BLVD.
FREMONT CA 94539
US

00-20-24 (hex) PACIFIC COMMUNICATION SCIENCES

002024 (base 16) PACIFIC COMMUNICATION SCIENCES
9645 SCRANTON ROAD
SAN DIEGO CA 92121
US

00-20-D1 (hex) MICROCOMPUTER SYSTEMS (M) SDN.
0020D1 (base 16) MICROCOMPUTER SYSTEMS (M) SDN.
23-25, JALAN JEJAKA TUJUH

MY

00-20-CE (hex) LOGICAL DESIGN GROUP, INC.
0020CE (base 16) LOGICAL DESIGN GROUP, INC.
6301 CHAPEL HILL ROAD
RALEIGH NC 27607
US

00-20-14 (hex) GLOBAL VIEW CO., LTD.
002014 (base 16) GLOBAL VIEW CO., LTD.
4F, NO. 23, LANE 306
TAIWAN R.O.C.
TW

00-20-B3 (hex) Tattile SRL
0020B3 (base 16) Tattile SRL
3 APOLLO PLACE

AU

00-20-16 (hex) SHOWA ELECTRIC WIRE & CABLE
CO
002016 (base 16) SHOWA ELECTRIC WIRE & CABLE CO
NO. 20-25, SEISHIN 8-CHOME
229
JP

00-20-4D (hex) INOVIS GMBH
00204D (base 16) INOVIS GMBH
HANNS-BRAUN STRASSE 50

DE

00-20-5F (hex) GAMMADATA COMPUTER GMBH
00205F (base 16) GAMMADATA COMPUTER GMBH
GUTENBERGSTR. 13

DE

00-20-1F (hex) BEST POWER TECHNOLOGY, INC.
00201F (base 16) BEST POWER TECHNOLOGY, INC.
P.O. BOX 280
NECEDAH WI 54646
US

00-20-B6 (hex) AGILE NETWORKS, INC.
0020B6 (base 16) AGILE NETWORKS, INC.
200 BAKER AVENUE
CONCORD MA 01742
US

00-20-ED (hex) GIGA-BYTE TECHNOLOGY CO., LTD.
0020ED (base 16) GIGA-BYTE TECHNOLOGY CO., LTD.
365 CLOVERLEAF
BALDWIN PARK CA 91706
US

00-20-85 (hex) Eaton Corporation
002085 (base 16) Eaton Corporation
8380 Capital Blvd.
RALEIGH NC 27616
US

00-20-CD (hex) HYBRID NETWORKS, INC.
0020CD (base 16) HYBRID NETWORKS, INC.
10201
BUBB ROAD
CUPERTINO CA 95014-4167
US

00-20-2E (hex) DAYSTAR DIGITAL
00202E (base 16) DAYSTAR DIGITAL
5556 ATLANTA HIGHWAY
FLOWERY BRANCH GA 30542
US

00-20-29 (hex) TELEPROCESSING PRODUCTS, INC.
002029 (base 16) TELEPROCESSING PRODUCTS, INC.
4565 E. INDUSTRIAL STREET
SIMI VALLEY CA 93063
US

00-20-69 (hex) ISDN SYSTEMS CORPORATION
002069 (base 16) ISDN SYSTEMS CORPORATION
8320 OLD COURTHOUSE RD.
VIENNA VA 22182
US

00-20-8B (hex) LAPIS TECHNOLOGIES, INC.
00208B (base 16) LAPIS TECHNOLOGIES, INC.
1100 MARINA VILLAGE PKWY
ALAMEDA CA 94501
US

00-20-E5 (hex) APEX DATA, INC.
0020E5 (base 16) APEX DATA, INC.
6624 OWENS DRIVE
PLEASANTON CA 94588
US

00-20-43 (hex) NEURON COMPANY LIMITED
002043 (base 16) NEURON COMPANY LIMITED
15 KWAI YI ROAD, BLOCK 2,
KWAI CHUNG, N.T.
HK

00-20-71 (hex) IBR GMBH
002071 (base 16) IBR GMBH
KOHLERSTR. 45
D-46286
DORSTEN
DE

00-20-57 (hex) TITZE DATENTECHNIK GmbH
002057 (base 16) TITZE DATENTECHNIK GmbH
DIESELSTRASSE 10
DS-71272 RENNINGEN-2
DE

00-20-15 (hex) ACTIS COMPUTER SA
002015 (base 16) ACTIS COMPUTER SA
16 CHEMIN DES AULX

CH

00-20-99 (hex) BON ELECTRIC CO., LTD.
002099 (base 16) BON ELECTRIC CO., LTD.
4-4 28, MIZUDO-CHO
HYOGO HYOGO
JP

00-20-C2 (hex) TEXAS MEMORY SYSTEMS, INC.
0020C2 (base 16) TEXAS MEMORY SYSTEMS, INC.
11200 WESTHEIMER RD-STE#1000
HOUSTON TX 77042

US

00-20-5D (hex) NANOMATIC OY
00205D (base 16) NANOMATIC OY
PUISTOLAN RAITTI 4

FI

00-20-04 (hex) YAMATAKE-HONEYWELL CO., LTD.
002004 (base 16) YAMATAKE-HONEYWELL CO., LTD.
54 SUZUKAWA, ISEHARA
KANAGAWA 259-11
JP

00-20-BC (hex) Long Reach Networks Pty Ltd
0020BC (base 16) Long Reach Networks Pty Ltd
Unit 3, 118-122 Bowden St
MEADOWBANK NSW 2114

AU

00-20-7C (hex) AUTEC GMBH
00207C (base 16) AUTEC GMBH
BAHNHOFSTR. 57
55234 FRAMERSHEIM
DE

00-20-EE (hex) GTECH CORPORATION
0020EE (base 16) GTECH CORPORATION
55 TECHNOLOGY WAY
WEST GREENWICH RI 02817
US

00-20-4C (hex) MITRON COMPUTER PTE LTD.
00204C (base 16) MITRON COMPUTER PTE LTD.
1020 HOUGANG AVENUE 1 #03-3504
SINGAPORE 1953
SG

00-20-17 (hex) ORBOTECH
002017 (base 16) ORBOTECH
INDUSTRIAL ZONE

IL

00-20-93 (hex) LANDINGS TECHNOLOGY CORP.
002093 (base 16) LANDINGS TECHNOLOGY CORP.
163 WATER STREET

EXETER NH 03833
US

00-20-63 (hex) WIPRO INFOTECH LTD.
002063 (base 16) WIPRO INFOTECH LTD.
UNITS 47-48, SDF BLOCK VII

00-20-56 (hex) NEOPRODUCTS
002056 (base 16) NEOPRODUCTS
25 CHAPMAN STREET

AU

00-20-42 (hex) DATAMETRICS CORP.
002042 (base 16) DATAMETRICS CORP.
8966 COMANCHE AVE.
CHATSWORTH
CA 91311
US

00-20-78 (hex) RUNTOP, INC.
002078 (base 16) RUNTOP, INC.
5/F, NO. 10, ALLEY 8, LANE 45
TAIWAN R.O.C.
TW

00-C0-F3 (hex) NETWORK COMMUNICATIONS CORP.
00C0F3 (base 16) NETWORK COMMUNICATIONS CORP.
5501 GREEN VALLEY DRIVE
BLOOMINGTON MN 55437-1085
US

00-C0-C0 (hex) SHORE MICROSYSTEMS, INC.
00C0C0 (base 16) SHORE MICROSYSTEMS, INC.
23 POCAHONTAS AVENUE
OCEANPORT NJ 07757
US

00-C0-0C (hex) RELIA TECHNOLGIES
00C00C (base 16) RELIA TECHNOLGIES
1F., NO. 24, INDUSTRY E. 9TH
TAIWAN TAIWAN R.O.C.
TW

00-C0-67 (hex) UNITED BARCODE INDUSTRIES
00C067 (base 16) UNITED BARCODE INDUSTRIES

12240 INDIAN CREEK COURT
BELTSVILLE MD 20705
US

00-C0-A3 (hex) DUAL ENTERPRISES CORPORATION
00C0A3 (base 16) DUAL ENTERPRISES CORPORATION
9TH FLOOR 48 NAN-KANG ROAD
TAIWAN TAIWAN R.O.C.
TW

00-C0-73 (hex) XEDIA CORPORATION
00C073 (base 16) XEDIA CORPORATION
301
BALLARDVALE STREET
WILMINGTON MA 01887
US

00-C0-D4 (hex) AXON NETWORKS, INC.
00C0D4 (base 16) AXON NETWORKS, INC.
104 SPRUCE STREET
WATERTOWN MA 02172
US

00-C0-CD (hex) COMELTA, S.A.
00C0CD (base 16) COMELTA, S.A.
AVDA. PARC TECNOLOGIC, 4

ES

00-C0-90 (hex) PRAIM S.R.L.
00C090 (base 16) PRAIM S.R.L.
VIA MACCANI, 169
ITALY

00-C0-DE (hex) ZCOMM, INC.
00C0DE (base 16) ZCOMM, INC.
1050 C EAST DUANE AVENUE
SUNNYVALE CA 94086
US

00-C0-33 (hex) TELEBIT COMMUNICATIONS APS
00C033 (base 16) TELEBIT COMMUNICATIONS APS
SKANDERBORGVEJ 234

DK

00-C0-05 (hex) LIVINGSTON ENTERPRISES, INC.

00C005 (base 16) LIVINGSTON ENTERPRISES, INC.
6920 KOLL CENTER PARKWAY #220
PLEASANTON CA 94566
US

00-C0-77 (hex) DAEWOO TELECOM LTD.
00C077 (base 16) DAEWOO TELECOM LTD.
PRODUCTS DESIGN DEPT. 1
SEOUL SEOUL KOREA
KR

00-C0-C8 (hex) MICRO
BYTE PTY. LTD.
00C0C8 (base 16) MICRO BYTE PTY. LTD.
197 SHERBOURNE RD.
AUSTRALIA 3094
AU

00-C0-69 (hex) Axxcelera Broadband Wireless
00C069 (base 16) Axxcelera Broadband Wireless
111 Castilian Drive
Santa Barbara CA 93117
US

00-C0-13 (hex) NETRIX
00C013 (base 16) NETRIX
13595 DULLES TECHNOLOGY DRIVE
HERNDON VA 22071
US

00-C0-58 (hex) DATAEXPERT CORP.
00C058 (base 16) DATAEXPERT CORP.
1156 SONOPRA COURTN-KANG RD.
SUNNYVALE CA 94086
US

00-C0-D0 (hex) RATOC SYSTEM INC.
00C0D0 (base 16) RATOC SYSTEM INC.
ASAHI NAMBA BLDG.
556
JP

00-C0-BF (hex) TECHNOLOGY CONCEPTS, LTD.
00C0BF (base 16) TECHNOLOGY CONCEPTS, LTD.
GRANGE ESTATE
UNITED KINGDOM
GB

00-C0-18 (hex) LANART CORPORATION
00C018 (base 16) LANART CORPORATION
145 ROSEMARY STREET
NEEDHAM MA 02194
US

00-9D-8E (hex) CARDIAC RECORDERS, INC.
009D8E (base 16) CARDIAC RECORDERS,
INC.
34 SCARBORO ROAD
UNITED KINGDOM
GB

00-BB-01 (hex) OCTOTHORPE CORP.
00BB01 (base 16) OCTOTHORPE CORP.
285 WEST GREEN STREET
PASADENA CA 91105
US

00-C0-6B (hex) OSI PLUS CORPORATION
00C06B (base 16) OSI PLUS CORPORATION
2-1-23 NAKAMEGURO

JP

00-C0-4C (hex) DEPARTMENT OF FOREIGN AFFAIRS
00C04C (base 16) DEPARTMENT OF FOREIGN AFFAIRS
& TRADE

AU

00-C0-7C (hex) HIGHTECH INFORMATION
00C07C (base 16) HIGHTECH INFORMATION
SYSTEM LTD.
HONG KONG
HK

00-C0-B8 (hex) FRASER'S HILL LTD.
00C0B8 (base 16) FRASER'S HILL LTD.
27502 W. GILL ROAD
MORRISTOWN AZ 85342
US

00-C0-62 (hex) IMPULSE TECHNOLOGY
00C062 (base 16) IMPULSE TECHNOLOGY
210 DAHLONEGA ST.#204
CUMMING GA 30130
US

00-C0-EC (hex) DAUPHIN TECHNOLOGY
00C0EC (base 16) DAUPHIN TECHNOLOGY
450 EISENHOWER LANE NORTH
LOMBARD IL 60148
US

00-C0-16 (hex) ELECTRONIC
THEATRE CONTROLS
00C016 (base 16) ELECTRONIC THEATRE CONTROLS
3030 LAURA LANE
MIDDLETON WI 53562
US

00-C0-86 (hex) THE LYNK CORPORATION
00C086 (base 16) THE LYNK CORPORATION
101 QUEENS DRIVE
KING OF PRUSSIA PA 19406
US

00-C0-6C (hex) SVEC COMPUTER CORP.
00C06C (base 16) SVEC COMPUTER CORP.
3F, 531-1 CHUNG CHENG RD.
TAIWAN TAIWAN R.O.C.
TW

00-40-FF (hex) TELEBIT CORPORATION
0040FF (base 16) TELEBIT CORPORATION
1315 CHESAPEAKE TERRACE
SUNNYVALE CA 94089-1100
US

00-40-1F (hex) COLORGRAPH LTD
00401F (base 16) COLORGRAPH LTD
UNIT 2, MARS HOUSE
RG7 4QW - UNITED KINGDOM
GB

00-40-AF (hex) DIGITAL PRODUCTS, INC.
0040AF (base 16) DIGITAL PRODUCTS, INC.
411 WAVERLY OAKS ROAD
WALTHAM MA 02154
US

00-40-F7 (hex) Polaroid Corporation
0040F7 (base 16) Polaroid Corporation
300 Baker Avenue
Concord MA 01742

US

00-40-37 (hex) SEA-ILAN, INC.
004037
(base 16) SEA-ILAN, INC.
14602 NORTH US HIGHWAY #31
CARMEL IN 46032
US

00-40-4E (hex) FLUENT, INC.
00404E (base 16) FLUENT, INC.
594 WORCESTER ROAD-STE.#308
NATICK MA 01760
US

00-40-8D (hex) THE GOODYEAR TIRE & RUBBER CO.
00408D (base 16) THE GOODYEAR TIRE & RUBBER CO.
1144 EAST MARKET STREET
AKRON OH 44316
US

00-C0-26 (hex) LANS TECHNOLOGY CO., LTD.
00C026 (base 16) LANS TECHNOLOGY CO., LTD.
153 MINTSU RD. 2F, TAOYUAN,
TAIWAN R. O. C.
TW

00-C0-D5 (hex) Werbeagentur Jürgen Siebert
00C0D5 (base 16) Werbeagentur Jürgen Siebert
Im Klostergarten 8
D-50321 Brühl
DE

00-C0-63 (hex) MORNING STAR TECHNOLOGIES, INC
00C063 (base 16) MORNING STAR TECHNOLOGIES, INC
1760 ZOLLINGER ROAD
COLUMBUS OH 43221
US

00-C0-21 (hex) NETEXPRESS
00C021 (base 16) NETEXPRESS
989 EAST HILLSDALE BLVD.
FOSTER CITY CA 94404-2113
US

00-C0-C1 (hex) QUAD/GRAPHICS,
INC.
00C0C1 (base 16) QUAD/GRAPHICS, INC.

N63 W23075 HWY 74
SUSSEX WI 53089
US

00-C0-BA (hex) NETVANTAGE
00C0BA (base 16) NETVANTAGE
201 CONTINENTAL BLVD.-STE.#201
EL SECUNDO CA 90245
US

00-C0-5E (hex) VARI-LITE, INC.
00C05E (base 16) VARI-LITE, INC.
201 REGAL ROW
DALLAS TX 75247
US

00-C0-DB (hex) IPC CORPORATION (PTE) LTD.
00C0DB (base 16) IPC CORPORATION (PTE) LTD.
122 EUNOS AVE., 7 #05-10
SINGAPORE 1440
SG

00-C0-9B (hex) Tellabs Enterprise, Inc.
00C09B (base 16) Tellabs Enterprise, Inc.
4240 International Parkway Suite 105
Carrollton TX 75007
US

00-C0-89 (hex) TELINDUS DISTRIBUTION
00C089 (base 16) TELINDUS DISTRIBUTION
GELDENAAKSEBAAN 335

BE

00-C0-E3 (hex) OSITECH COMMUNICATIONS, INC.
00C0E3 (base 16) OSITECH COMMUNICATIONS, INC.
679 SOUTHGATE DRIVE
CANADA N1G 4S2
CA

00-C0-FE (hex) APTEC COMPUTER SYSTEMS,
INC.
00C0FE (base 16) APTEC COMPUTER SYSTEMS, INC.
P.O. BOX 6750
PORTLAND OR 97228-6750
US

00-C0-B0 (hex) GCC TECHNOLOGIES,INC.

00C0B0 (base 16) GCC TECHNOLOGIES,INC.
580 WINTER STREET
WALTHAM MA 02154
US

00-C0-CA (hex) ALFA, INC.
00C0CA (base 16) ALFA, INC.
11-1, INDUSTRY EAST ROAD IV
TAIWAN
TW

00-C0-BC (hex) TELECOM AUSTRALIA/CSSC
00C0BC (base 16) TELECOM AUSTRALIA/CSSC
LOCKED BAG 8812

AU

00-C0-0A (hex) MICRO CRAFT
00C00A (base 16) MICRO CRAFT
2-4-3 NISHIFURUMATSU

JP

00-C0-74 (hex) TOYODA AUTOMATIC LOOM
00C074 (base 16) TOYODA AUTOMATIC LOOM
WORKS, LTD.
448
JP

00-C0-4A (hex) GROUP 2000 AG
00C04A (base 16) GROUP 2000 AG
P.O. BOX 331

CH

00-40-F2 (hex) JANICH & KLASS COMPUTERTECHNIK
0040F2 (base 16) JANICH & KLASS COMPUTERTECHNIK
ZUM ALTEN ZOLLHAUS 20

DE

00-40-A2 (hex) KINGSTAR TECHNOLOGY
INC.
0040A2 (base 16) KINGSTAR TECHNOLOGY INC.
1-3F, NO. 185, SEC. 3,
TAIPEI TAIWAN, R.O.C.
TW

00-40-DC (hex) TRITEC ELECTRONIC GMBH
0040DC (base 16) TRITEC ELECTRONIC GMBH
ROBERT KOCH STR. 35

DE

00-40-54 (hex) CONNECTION MACHINES SERVICES
004054 (base 16) CONNECTION MACHINES SERVICES
12 HENSHAW STREET
WOBURN MA 01801-466664
US

00-40-04 (hex) ICM CO. LTD.
004004 (base 16) ICM CO. LTD.
4-2-9 NIHONBASHI NANIWA-KU

JP

00-40-18 (hex) ADOBE SYSTEMS, INC.
004018 (base 16) ADOBE SYSTEMS, INC.
1585 CHARLESTON ROAD
MOUNTAIN VIEW CA 94043
US

00-C0-D7 (hex) TAIWAN TRADING CENTER DBA
00C0D7 (base 16) TAIWAN TRADING CENTER DBA
TTC COMPUTER PRODUCTS
IRVING TX 75038
US

00-40-DA (hex) TELSPEC LTD
0040DA (base 16) TELSPEC LTD
LANCASTER PARKER ROAD
ENGLAND
GB

00-40-A6 (hex) Cray, Inc.
0040A6 (base 16) Cray, Inc.
655F LONE OAK DRIVE
EAGAN
MN 55121
US

00-40-30 (hex) GK COMPUTER
004030 (base 16) GK COMPUTER
BASLER STRASSE 103

DE

00-40-40 (hex) RING ACCESS, INC.
004040 (base 16) RING ACCESS, INC.
957-R INDUSTRIAL ROAD
SAN CARLOS CA 94070
US

00-80-57 (hex) ADSOFT, LTD.
008057 (base 16) ADSOFT, LTD.
Im Baumgarten 6
MOHLIN CH-4313
CH

00-80-BB (hex) HUGHES LAN SYSTEMS
0080BB (base 16) HUGHES LAN SYSTEMS
1225 CHARLESTON ROAD
MOUNTAIN VIEW CA 94043
US

00-40-3D (hex) Teradata Corporation
00403D (base 16) Teradata Corporation
17095 Via Del Campo
San Diego CA 92127
US

00-40-D0 (hex) MITAC INTERNATIONAL CORP.
0040D0 (base 16) MITAC INTERNATIONAL CORP.
8TH FL. 585 MING SHENG E. RD.

TW

00-40-AB (hex) ROLAND DG CORPORATION
0040AB (base 16) ROLAND DG CORPORATION
1-1-3 Shinmiyakoda, Kita-ku
Hamamatsu-shi Shizuoka-ken 431-2103
JP

00-40-B6 (hex) COMPUTERM
CORPORATION
0040B6 (base 16) COMPUTERM CORPORATION
111 WOOD STREET
PITTSBURGH PA 15222
US

00-40-A3 (hex) MICROUNITY SYSTEMS ENGINEERING
0040A3 (base 16) MICROUNITY SYSTEMS ENGINEERING
255 CASPIAN DRIVE
SUNNYVALE CA 94089-1015

US

00-40-B3 (hex) ParTech Inc.
0040B3 (base 16) ParTech Inc.
8383 Seneca Turnpike
NEW HARTFORD NY 13413
US

00-40-1D (hex) INVISIBLE SOFTWARE, INC.
00401D (base 16) INVISIBLE SOFTWARE, INC.
1142 CHESS DRIVE
FOSTER CITY CA 94404
US

00-40-46 (hex) UDC RESEARCH LIMITED
004046 (base 16) UDC RESEARCH LIMITED
8A KING WAN INDUSTRIAL BLDG.
HONG KONG
HK

00-40-4A (hex) WEST AUSTRALIAN DEPARTMENT
00404A (base 16) WEST AUSTRALIAN DEPARTMENT
OF EMPLOYMENT (DEVET)
WESTERN
AU

00-40-3C (hex) FORKS, INC.
00403C (base 16) FORKS, INC.
1-27-4 IRIYA,
110
JP

00-40-42 (hex) N.A.T. GMBH
004042 (base 16) N.A.T. GMBH
GOETHESTR.
2

DE

00-40-F9 (hex) COMBINET
0040F9 (base 16) COMBINET
333 W. EL CAMINO REAL-STE#310
SUNNYVALE CA 94087
US

00-40-7E (hex) EVERGREEN SYSTEMS, INC.
00407E (base 16) EVERGREEN SYSTEMS, INC.
120 LANDING COURT-SUITE

NOVATO CA 94945
US

00-40-3E (hex) RASTER OPS CORPORATION
00403E (base 16) RASTER OPS CORPORATION
2500 WALSH AVENUE
SANTA CLARA CA 95051
US

00-C0-6F (hex) KOMATSU LTD.
00C06F (base 16) KOMATSU LTD.
3-25-1, Shinomiya
Hiratsuka-Shi Kanagawa-Ken 254-8555
JP

00-C0-A7 (hex) SEEL LTD.
00C0A7 (base 16) SEEL LTD.
3 YOUNG SQUARE
SCOTLAND
GB

00-40-1B (hex) PRINTER SYSTEMS CORP.
00401B (base 16) PRINTER SYSTEMS CORP.
207 PERRY PARKWAY
GAITHERSBURG MD 20877-2142
US

00-40-EE (hex) OPTIMEM
0040EE (base 16) OPTIMEM
297 N. BERNARDO AVENUE
MOUNTAIN VIEW CA 94043-5205
US

00-40-51 (hex) Garbee and Garbee
004051
(base 16) Garbee and Garbee
4390 Darr Circle
Colorado Springs CO 80908
US

00-40-7A (hex) SOCIETE D'EXPLOITATION DU CNIT
00407A (base 16) SOCIETE D'EXPLOITATION DU CNIT
2 GLACE DE LA DEFENSE 92053

FR

00-40-31 (hex) KOKUSAI ELECTRIC CO., LTD
004031 (base 16) KOKUSAI ELECTRIC CO., LTD

2-1 YASUUCHI
TOYAMA 939-23
JP

00-40-D3 (hex) KIMPSION INTERNATIONAL CORP.
0040D3 (base 16) KIMPSION INTERNATIONAL CORP.
4701 PATRICK HENRY DRIVE
SANTA CLARA CA 95054
US

00-40-25 (hex) MOLECULAR DYNAMICS
004025 (base 16) MOLECULAR DYNAMICS
880 EAST ARQUES AVENUE
SUNNYVALE CA 94086-4536
US

00-40-C7 (hex) RUBY TECH CORPORATION
0040C7 (base 16) RUBY TECH CORPORATION
6F-1, NO.3, LANE 250,
TAIPEI TAIWAN, R.O.C.
TW

00-40-52 (hex) STAR TECHNOLOGIES, INC.
004052 (base 16) STAR TECHNOLOGIES, INC.
515 SHAW ROAD
STERLING VA 22075
US

00-40-2E (hex) PRECISION
SOFTWARE, INC.
00402E (base 16) PRECISION SOFTWARE, INC.
600 S FEDERAL HWY STE
DEERFIELD BEACH FL 33441-4193
US

00-40-2B (hex) TRIGEM COMPUTER, INC.
00402B (base 16) TRIGEM COMPUTER, INC.
KISUNG B/D 4F, 784-6
SEOUL KOREA 135-080
KR

00-40-1A (hex) FUJI ELECTRIC CO., LTD.
00401A (base 16) FUJI ELECTRIC CO., LTD.
NEW YURAKUCHO BLDG

JP

00-40-80 (hex) ATHENIX CORPORATION

004080 (base 16) ATHENIX CORPORATION
675 ALMANOR AVENUE
SUNNYVALE CA 94086
US

00-40-01 (hex) Zero One Technology Co. Ltd.
004001 (base 16) Zero One Technology Co. Ltd.
10 Fl., No. 8, Lane 360, Sec 1,
Neihu Dist., Taipei City 114
TW

00-40-71 (hex) ATM COMPUTER GMBH
004071 (base 16) ATM COMPUTER GMBH
BUCKLESTR. 1-5,POSTFACH 101043

DE

00-40-60 (hex) COMENDEC LTD
004060 (base 16) COMENDEC LTD
ENTERPRISE WAY,
BIRMINGHAM BIRMINGHAM ENGLAND
GB

00-40-56 (hex) MCM
JAPAN LTD.
004056 (base 16) MCM JAPAN LTD.
SYUUKAEN BLD. 2-11-1

JP

00-40-67 (hex) OMNIBYTE CORPORATION
004067 (base 16) OMNIBYTE CORPORATION
245 WEST ROOSEVELT ROAD
WEST CHICAGO IL 60185
US

00-40-C3 (hex) FISCHER AND PORTER CO.
0040C3 (base 16) FISCHER AND PORTER CO.
125 E. COUNTY LINE ROAD
WARMINSTER PA 18974
US

00-40-EC (hex) MIKASA SYSTEM ENGINEERING
0040EC (base 16) MIKASA SYSTEM ENGINEERING
CO., LTD.

JP

00-80-F1 (hex) OPUS SYSTEMS
0080F1 (base 16) OPUS SYSTEMS
3000 CORONADO DRIVE
SANTA CLARA CA 95054
US

00-80-29 (hex) EAGLE TECHNOLOGY, INC.
008029 (base 16) EAGLE TECHNOLOGY, INC.
6800 ORANGETHORPE AVE.UNIT
BUENA PARK CA 90620
US

00-80-72 (hex) MICROPLEX SYSTEMS LTD.
008072 (base 16) MICROPLEX SYSTEMS LTD.
301-2071 Kingsway
Port Coquitlam BC V3C6N2
CA

00-80-2F (hex) NATIONAL INSTRUMENTS CORP.
00802F (base 16) NATIONAL
INSTRUMENTS CORP.
11500 North Mopac Expressway
AUSTIN TX 78759-3504
US

00-80-54 (hex) FRONTIER TECHNOLOGIES CORP.
008054 (base 16) FRONTIER TECHNOLOGIES CORP.
10201 NO. PT. WASHINGTON ROAD
MEQUON WI 53092
US

00-80-53 (hex) INTELLICOM, INC.
008053 (base 16) INTELLICOM, INC.
20415 NORDHOFF STREET
CHATSWORTH CA 91311
US

00-80-26 (hex) NETWORK PRODUCTS CORPORATION
008026 (base 16) NETWORK PRODUCTS CORPORATION
1440 WEST COLORADO BLVD.
PASADENA CA 91105
US

00-80-B0 (hex) ADVANCED INFORMATION
0080B0 (base 16) ADVANCED INFORMATION
TECHNOLOGY, INC.

JP

00-80-FA (hex) RWT GMBH
0080FA (base 16) RWT GMBH
TALANGERSTR. 5-7
WEST
DE

00-80-FD (hex) EXSCEED CORPRATION
0080FD (base 16) EXSCEED CORPRATION
1-15-12, KITAKASE, SAIWAI-KU

JP

00-80-FE (hex) AZURE TECHNOLOGIES, INC.
0080FE (base 16) AZURE TECHNOLOGIES, INC.
63 SOUTH
STREET
HOPKINTON MA 01748-2212
US

00-80-3C (hex) TVS ELECTRONICS LTD
00803C (base 16) TVS ELECTRONICS LTD
44, MILLER ROAD

IN

00-80-46 (hex) Tattile SRL
008046 (base 16) Tattile SRL
DEPT. OF ELECTRICAL ENGIN'ING

CA

00-80-0E (hex) ATLANTIX CORPORATION
00800E (base 16) ATLANTIX CORPORATION
5401 NW BROKENSOUND BLVD.
BOCA RATON FL 33431
US

00-80-AB (hex) DUKANE NETWORK INTEGRATION
0080AB (base 16) DUKANE NETWORK INTEGRATION
2900 DUKANE DRIVE
ST. CHARLES IL 60174
US

00-40-02 (hex) PERLE SYSTEMS LIMITED
004002 (base 16) PERLE SYSTEMS LIMITED
60 RENFREW DRIVE
CANADA L3R 0E1

CA

00-40-49 (hex) Roche Diagnostics International Ltd.
004049 (base 16) Roche Diagnostics International Ltd.
FORRENSTRASSE
ROTKREUZ ZG 6343
CH

00-40-29 (hex) Compex
004029 (base 16) Compex

US

00-80-A2 (hex) CREATIVE ELECTRONIC SYSTEMS
0080A2
(base 16) CREATIVE ELECTRONIC SYSTEMS
Avenue Eugène-Lance 38bis

CH

00-80-4B (hex) EAGLE TECHNOLOGIES PTY.LTD.
00804B (base 16) EAGLE TECHNOLOGIES PTY.LTD.
70 KEYS ROAD

AU

00-80-EC (hex) SUPERCOMPUTING SOLUTIONS, INC.
0080EC (base 16) SUPERCOMPUTING SOLUTIONS, INC.
6175 NANCY RIDGE BLVD.
SAN DIEGO CA 92121
US

00-80-27 (hex) ADAPTIVE SYSTEMS, INC.
008027 (base 16) ADAPTIVE SYSTEMS, INC.
1400 N.W. COMPTON DRIVE
BEAVERTON OR 97006
US

00-80-FC (hex) AVATAR CORPORATION
0080FC (base 16) AVATAR CORPORATION
65 SOUTH STREET
HOPKINTON MA 01748
US

00-80-E4 (hex) NORTHWEST DIGITAL SYSTEMS, INC
0080E4 (base 16) NORTHWEST DIGITAL SYSTEMS, INC
P.O. BOX 15288

SEATTLE WA 98115
US

00-80-AD (hex) CNET TECHNOLOGY, INC.
0080AD (base 16) CNET TECHNOLOGY, INC.
2199 ZANKER ROAD
SAN JOSE CA 95131
US

00-80-11 (hex) DIGITAL SYSTEMS INT'L. INC.
008011
(base 16) DIGITAL SYSTEMS INT'L. INC.
7659 178TH PL. NE
REDMOND WA 98073-0908
US

00-80-34 (hex) SMT GOUPIL
008034 (base 16) SMT GOUPIL
3 RUE DES ARCHIVES

FR

00-80-2C (hex) THE SAGE GROUP PLC
00802C (base 16) THE SAGE GROUP PLC
SAGE HOUSE, BENTON PARK ROAD
UNITED KINGDOM
GB

00-80-C8 (hex) D-LINK SYSTEMS, INC.
0080C8 (base 16) D-LINK SYSTEMS, INC.
53 Discover Dr.
Irvine CA 92618
US

00-80-12 (hex) INTEGRATED MEASUREMENT SYSTEMS
008012 (base 16) INTEGRATED MEASUREMENT SYSTEMS
9525 SW GEMINI DRIVE
BEAVERTON OR 97005
US

00-80-A5 (hex) SPEED INTERNATIONAL
0080A5 (base 16) SPEED INTERNATIONAL
1320 ARBOLITA DR.
LA HABRA CA 90631
US

00-80-79 (hex) MICROBUS DESIGNS LTD.
008079 (base 16) MICROBUS DESIGNS LTD.

TREADAWAY HILL
UNITED KINGDOM
GB

00-80-B7 (hex) STELLAR COMPUTER
0080B7 (base 16) STELLAR COMPUTER
95 WELLS AVENUE
NEWTON
MA 02159

00-80-5C (hex) AGILIS CORPORATION
00805C (base 16) AGILIS CORPORATION
1101 SAN ANTONIO ROAD
Mountain View CA 94043-1008
US

00-80-C5 (hex) NOVELLCO DE MEXICO
0080C5 (base 16) NOVELLCO DE MEXICO
CONSTITUYENTES NO. 907
11950 MEXICO 11950 MEXICO D.F.
MX

00-80-D6 (hex) NUVOTECH, INC.
0080D6 (base 16) NUVOTECH, INC.
2015 BRIDGEWAY, SUITE 204
SAUSALITO CA 94965
US

00-80-0A (hex) JAPAN COMPUTER CORP.
00800A (base 16) JAPAN COMPUTER CORP.
L. K. BLDG. HIGASHI KANDA

JP

00-80-CC (hex) MICROWAVE BYPASS SYSTEMS
0080CC (base 16) MICROWAVE BYPASS SYSTEMS
25 BRAINTREE HILL OFFICE PARK
BRAINTREE MA 02184
US

00-00-A5 (hex) Tattile SRL
0000A5 (base 16) Tattile SRL
P.O. BOX 17220
BOULDER CO 80308-7220
US

00-00-36 (hex) ATARI CORPORATION

000036 (base 16) ATARI CORPORATION
1196 BORREGAS AVENUE
SUNNYVALE CA 94086
US

00-00-F8
(hex) DIGITAL EQUIPMENT CORPORATION
0000F8 (base 16) DIGITAL EQUIPMENT CORPORATION
LKG 1-2/A19
LITTLETON MA 01460-1289
US

00-80-14 (hex) ESPRIT SYSTEMS
008014 (base 16) ESPRIT SYSTEMS
14F, NO. 1, SEC. 4
TAIWAN TAIWAN R.O.C.
TW

00-00-79 (hex) NETWORTH INCORPORATED
000079 (base 16) NETWORTH INCORPORATED
8404 ESTERS BOULEVARD
IRVING TX 75063
US

00-00-91 (hex) ANRITSU CORPORATION
000091 (base 16) ANRITSU CORPORATION
1800, ONNA

JP

00-80-F6 (hex) SYNERGY MICROSYSTEMS
0080F6 (base 16) SYNERGY MICROSYSTEMS
9605 SCRANTON ROAD-STE #700
SAN DIEGO CA 92121-1773
US

00-80-78 (hex) PRACTICAL PERIPHERALS, INC.
008078 (base 16) PRACTICAL PERIPHERALS, INC.
375 CONEJO RIDGE AVENUE
THOUSAND OAKS CA 91361
US

00-80-7B (hex) ARTEL COMMUNICATIONS CORP.
00807B (base 16) ARTEL COMMUNICATIONS CORP.
22 KANE INDUSTRIAL DRIVE
HUDSON MA 01749
US

00-00-75
(hex) Nortel Networks
000075 (base 16) Nortel Networks
Global Operations Engineering
Brampton ON l6T 5P6 Cana
CA

00-00-ED (hex) APRIL
0000ED (base 16) APRIL
60, RUE DE CARTALE

FR

00-00-A3 (hex) NETWORK APPLICATION TECHNOLOGY
0000A3 (base 16) NETWORK APPLICATION TECHNOLOGY
1686 DELL AVENUE
CAMPBELL CA 95008
US

00-00-39 (hex) TOSHIBA CORPORATION
000039 (base 16) TOSHIBA CORPORATION
COMPUTER DIVISION
TOKYO 105
JP

00-00-3C (hex) AUSPEX SYSTEMS INC.
00003C (base 16) AUSPEX SYSTEMS INC.
5200 GREAT AMERICA PKWY
SANTA CLARA CA 95054
US

00-00-7E (hex) CLUSTRIX CORPORATION
00007E (base 16) CLUSTRIX CORPORATION
960 HAMLIN COURT
SUNNYVALE CA 94089
US

00-00-CB (hex) COMPU-SHACK ELECTRONIC GMBH
0000CB (base 16) COMPU-SHACK ELECTRONIC GMBH
RINGSTR. 56 - 58, 5450 NEUWIED
WEST
DE

00-00-CE (hex) MEGADATA CORP.
0000CE (base 16) MEGADATA
CORP.
35 ORVILLE DRIVE
BOHEMIA NY 11716

US

00-00-7B (hex) RESEARCH MACHINES
00007B (base 16) RESEARCH MACHINES
P.O. BOX 75
ENGLAND
GB

00-00-13 (hex) CAMEX
000013 (base 16) CAMEX
75 KNEELAND STREET
BOSTON MA 02111
US

00-00-95 (hex) SONY TEKTRONIX CORP.
000095 (base 16) SONY TEKTRONIX CORP.
P.O. BOX 5209 TOKYO INT'L

JP

00-00-57 (hex) SCITEX CORPORATION LTD.
000057 (base 16) SCITEX CORPORATION LTD.
P.O. BOX 330

IL

00-00-D6 (hex) PUNCH LINE HOLDING
0000D6 (base 16) PUNCH LINE HOLDING
P.O. BOX 391708
SOUTH AFRICA
ZA

00-00-7D (hex) Oracle Corporation
00007D (base 16) Oracle Corporation
17 Network Circle
Menlo Park CA 95025
US

00-00-96 (hex) MARCONI ELECTRONICS LTD.
000096 (base 16) MARCONI ELECTRONICS LTD.
BROWNS LANE, THE AIRPORT
UNITED KINGDOM
GB

00-00-5E (hex) ICANN, IANA Department
00005E
(base 16) ICANN, IANA Department
INTERNET ASS'NED NOS.AUTHORITY

Los Angeles CA 90094-2536
US

00-00-38 (hex) CSS LABS
000038 (base 16) CSS LABS
2134 SOUTH RIPCHEY
SANTA ANA CA 92705
US

00-00-60 (hex) Kontron Europe GmbH
000060 (base 16) Kontron Europe GmbH
Gutenbergstraße 2
Ismaning 85737
DE

08-00-6F (hex) PHILIPS APELDOORN B.V.
08006F (base 16) PHILIPS APELDOORN B.V.
P.O. BOX 105
THE
NL

00-00-0F (hex) NEXT, INC.
00000F (base 16) NEXT, INC.
3475 DEER CREEK ROAD
PALO ALTO CA 94304
US

00-00-BB (hex) TRI-DATA
0000BB (base 16) TRI-DATA
505 EAST MIDDLEFIELD ROAD
MOUNTAIN VIEW CA 94043-4082
US

00-00-44 (hex) CASTELLE CORPORATION
000044 (base 16) CASTELLE CORPORATION
3255-3 SCOTT BOULEVARD
SANTA CLARA CA 95054
US

00-00-9E (hex) MARLI S.A.
00009E (base 16) MARLI S.A.
CHEMIN TAVERNEY 3

CH

00-00-42 (hex) METIER
MANAGEMENT SYSTEMS LTD.
000042 (base 16) METIER MANAGEMENT SYSTEMS LTD.

3 FOUNDATION STREET
ENGLAND
GB

00-00-1A (hex) ADVANCED MICRO DEVICES
00001A (base 16) ADVANCED MICRO DEVICES
P.O. BOX 3453
SUNNYVALE CA 94088
US

00-00-7F (hex) LINOTYPE-HELL AG
00007F (base 16) LINOTYPE-HELL AG
POSTFACH 56 60

DE

08-00-7A (hex) INDATA
08007A (base 16) INDATA
GJERDRUMS VEI 12 C

NO

08-00-79 (hex) THE DROID WORKS
080079 (base 16) THE DROID WORKS
P.O. BOX CS 8180
SAN RAFAEL CA 94912
US

08-00-73 (hex) TECMAR INC.
080073 (base 16) TECMAR INC.
6225 COCHRAN ROAD
SOLON OH 44139
US

08-00-72 (hex) XEROX CORP UNIV GRANT PROGRAM
080072 (base 16) XEROX CORP UNIV GRANT PROGRAM
ZEROX SYSTEMS INSTITUTE
WEBSTER NY 14580
US

08-00-6A (hex) AT&T
08006A (base 16) AT&T
3300 E Renner Road
Richardson TX 75082
US

08-00-62 (hex) General

Dynamics
080062 (base 16) General Dynamics

Fort Worth TX
US

08-00-5C (hex) FOUR PHASE SYSTEMS
08005C (base 16) FOUR PHASE SYSTEMS
2001 LOGIC DRIVE
SAN JOSE CA 95124-3452
US

08-00-5A (hex) IBM Corp
08005A (base 16) IBM Corp
3039 E Cornwallis Road
Research Triangle Park NC 27709-2195
US

08-00-52 (hex) INSYSTEC
080052 (base 16) INSYSTEC
450 LAKEMONT AVENUE
WINTER PARK FL 32792
US

00-00-85 (hex) CANON INC.
000085 (base 16) CANON INC.
DVTECH. DEV. CENTER DEPT.12

JP

00-00-4A (hex) ADC CODENOLL TECHNOLOGY CORP.
00004A (base 16) ADC CODENOLL TECHNOLOGY CORP.
200 CORPORATE BLVD. SO.
YONKERS NY 10701
US

00-00-12 (hex) INFORMATION TECHNOLOGY LIMITED
000012 (base 16) INFORMATION TECHNOLOGY LIMITED
MAYLANDS AVE. HEMEL HEMPSTEAD
HERTS ENGLAND
GB

00-00-40 (hex) APPLICON, INC.
000040 (base 16) APPLICON, INC.
4251 PLYMOUTH RD 48015
ANN
ARBOR MI 48106-0986
US

00-00-5D (hex) CS TELECOM
00005D (base 16) CS TELECOM
4-16 AVENUE DU GENERAL LECLERC

FR

08-00-8F (hex) CHIPCOM CORPORATION
08008F (base 16) CHIPCOM CORPORATION
SOUTHBOROUGH OFFICE
SOUTHBOROUGH MA 01772-1886
US

00-00-8A (hex) DATAHOUSE INFORMATION SYSTEMS
00008A (base 16) DATAHOUSE INFORMATION SYSTEMS
DIRECTOR OF OPERATIONS
GU34 3QW ENGLAND
GB

00-00-32 (hex) Marconi plc
000032 (base 16) Marconi plc
28 ELSTREE WAY, BOREHAMWOOD
UNITED KINGDOM
GB

00-00-6A (hex) COMPUTER CONSOLES INC.
00006A (base 16) COMPUTER CONSOLES INC.
COMPUTER PRODUCTS DIVISION
IRVINE CA 92718
US

08-00-3E (hex) CODEX CORPORATION
08003E (base 16) CODEX CORPORATION
50 EAST COMMERCE DRIVE
SCHAUMBURG IL 60173
US

08-00-40 (hex) FERRANTI COMPUTER SYS. LIMITED
080040 (base 16) FERRANTI COMPUTER SYS. LIMITED
WYTHENSHAWE DIVISION

UNITED KINGDOM
GB

08-00-3A (hex) ORCATECH INC.
08003A (base 16) ORCATECH INC.
2680 QUEENSVIEW DRIVE
CANADA K2B 8H6

CA

08-00-3D (hex) CADNETIX CORPORATIONS
08003D (base 16) CADNETIX CORPORATIONS
5797 CENTRAL AVENUE
BOULDER CO 80301
US

08-00-38 (hex) BULL S.A.S.
080038 (base 16) BULL S.A.S.
rue Jean Jaures B.P.68
Les Clayes sous Bois 78430
FR

08-00-2F (hex) PRIME COMPUTER INC.
08002F (base 16) PRIME COMPUTER INC.
100 CROSBY DRIVE
BEDFORD MA 01730-1402
US

08-00-1E (hex) APOLLO COMPUTER INC.
08001E (base 16) APOLLO COMPUTER INC.
15 ELIZABETH DRIVE
CHELMSFORD MA 01824
US

08-00-19 (hex) GENERAL ELECTRIC CORPORATION
080019 (base 16) GENERAL ELECTRIC CORPORATION
1285 BOSTON AVENUE
BRIDGEPORT CT 06602
US

02-70-01 (hex) RACAL-DATACOM
027001 (base 16) RACAL-DATACOM
LAN INTERNETWORKING DIVISION
BOXBOROUGH MA 01719
US

08-00-2C (hex) BRITTON
LEE INC.
08002C (base 16) BRITTON LEE INC.
14600 WINCHESTER BLVD
LOS GATOS CA 95030
US

08-00-4D (hex) CORVUS SYSTEMS INC.
08004D (base 16) CORVUS SYSTEMS INC.
2100 CORVUS DRIVE

SAN JOSE CA 95124
US

08-00-0E (hex) NCR CORPORATION
08000E (base 16) NCR CORPORATION
WORLD HEADQUARTERS
DAYTON OH 45479
US

00-00-02 (hex) XEROX CORPORATION
000002 (base 16) XEROX CORPORATION
M/S 105-50C
WEBSTER NY 14580
US

00-00-03 (hex) XEROX CORPORATION
000003 (base 16) XEROX CORPORATION
M/S 105-50C
WEBSTER NY 14580
US

00-DD-09 (hex) UNGERMANN-BASS INC.
00DD09 (base 16) UNGERMANN-BASS INC.
3900 FREEDOM CIRCLE
SANTA CLARA CA 95054
US

00-00-06 (hex) XEROX CORPORATION
000006 (base 16) XEROX CORPORATION
M/S 105-50C
WEBSTER NY 14580
US

08-00-64 (hex) Sitasys AG
080064 (base 16) Sitasys AG
Freiburgstrasse 251

CH

08-00-02
(hex) BRIDGE COMMUNICATIONS INC.
080002 (base 16) BRIDGE COMMUNICATIONS INC.
2081 STIERLING ROAD
MOUNTAIN VIEW CA 94043
US

08-00-1A (hex) TIARA/ 10NET
08001A (base 16) TIARA/ 10NET

7777 WASHINGTON VILLAGE DRIVE
DAYTON OHIO 45459-3957
US

08-00-8B (hex) PYRAMID TECHNOLOGY CORP.
08008B (base 16) PYRAMID TECHNOLOGY CORP.
1295 CHARLESTON ROAD
MOUNTAIN VIEW CA 94043
US

08-00-12 (hex) BELL ATLANTIC INTEGRATED SYST.
080012 (base 16) BELL ATLANTIC INTEGRATED SYST.
40 TALL PINE DRIVE
SUDBURY MA 01776
US

08-00-01 (hex) COMPUTERVISION CORPORATION
080001 (base 16) COMPUTERVISION CORPORATION
14 CROSBY DRIVE MS 5-1
BEDFORD MA 01730
US

08-00-05 (hex) SYMBOLICS INC.
080005 (base 16) SYMBOLICS INC.
257 VASSAR STREET
CAMBRIDGE MA 02139
US

00-00-3D (hex) UNISYS
00003D (base 16) UNISYS
MS8-010
SAN JOSE CA 95150-6685
US

00-00-08 (hex) XEROX CORPORATION
000008
(base 16) XEROX CORPORATION
M/S 105-50C
WEBSTER NY 14580
US

00-DD-07 (hex) UNGERMANN-BASS INC.
00DD07 (base 16) UNGERMANN-BASS INC.
3900 FREEDOM CIRCLE
SANTA CLARA CA 95054
US

00-DD-0D (hex) UNGERMANN-BASS INC.

00DD0D (base 16) UNGERMANN-BASS INC.
3900 FREEDOM CIRCLE
SANTA CLARA CA 95054
US

94-3F-0C (hex) Genexis B.V.
943F0C (base 16) Genexis B.V.
Lodewijkstraat 1A
Eindhoven 5652AC
NL

08-00-16 (hex) BARRISTER INFO SYS CORP
080016 (base 16) BARRISTER INFO SYS CORP
ONE TECHNOLOGY CENTER
BUFFALO NY 14203
US

08-00-30 (hex) ROYAL MELBOURNE INST OF TECH
080030 (base 16) ROYAL MELBOURNE INST OF TECH
GPO BOX 2476V
MELBOURNE VIC 3001
AU

00-00-0B (hex) MATRIX CORPORATION
00000B (base 16) MATRIX CORPORATION
1203 NEW HOPE ROAD
RALEIGH NORTH CAROLINA 276
US

00-00-9B (hex) INFORMATION INTERNATIONAL, INC
00009B (base 16) INFORMATION
INTERNATIONAL, INC
5F., THE 7TH INDUSTRY BLDG.
JAPAN 150
JP

84-BB-26 (hex) Texas Instruments
84BB26 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

EC-9A-34 (hex) Texas Instruments
EC9A34 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

A4-F8-41 (hex) Apple, Inc.
A4F841 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A0-52-72 (hex) Apple, Inc.
A05272 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

34-B1-EB (hex) Apple, Inc.
34B1EB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

20-04-84 (hex) Apple, Inc.
200484 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

58-BA-D3 (hex) NANJING CASELA TECHNOLOGIES CORPORATION LIMITED
58BAD3 (base 16) NANJING CASELA TECHNOLOGIES CORPORATION LIMITED
9 Fl, Bldg. C, Optoelectric Science & Technology Park,
No. 6 Yuhe Road
Nanjing Jiangbei New Area 211800
CN

D0-A0-BB (hex) Shenzhen iComm Semiconductor CO.,LTD
D0A0BB (base 16) Shenzhen iComm Semiconductor CO.,LTD
Room 601,Block B ,Digital Building,Garden City
Shenzhen No.1079 Nanhai Road,Nanshan District 518067
CN

F8-7D-3F (hex) Huawei Device Co., Ltd.
F87D3F (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

90-A5-7D (hex) Huawei Device Co., Ltd.
90A57D (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

FC-A8-E0 (hex) THE FURUKAWA ELECTRIC CO., LTD
FCA8E0 (base 16) THE FURUKAWA ELECTRIC CO., LTD
2-6-4,Otemachi
Chiyoda-ku Tokyo 100-8322
JP

FC-51-B5 (hex) HUAWEI TECHNOLOGIES CO.,LTD
FC51B5 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

8C-9B-2D
(hex) PLANTRONICS, INC.
8C9B2D (base 16) PLANTRONICS, INC.
345 ENCINAL STREET
SANTA CRUZ CA 95060
US

90-9E-24 (hex) ekey biometric systems gmbh
909E24 (base 16) ekey biometric systems gmbh
Lunzerstrsasse 89
Linz Upper Austria 4020
AT

40-C0-EE (hex) 365mesh Pty Ltd
40C0EE (base 16) 365mesh Pty Ltd
502/32 Delhi Road
North Ryde NSW 2113
AU

28-44-30 (hex) Arcade Communications Ltd.
284430 (base 16) Arcade Communications Ltd.
1120 Elliott Court Herald Avenue
Coventry CV5 6UB
GB

98-03-CF (hex) SHENZHEN BILIAN ELECTRONIC CO.LTD
9803CF (base 16) SHENZHEN BILIAN ELECTRONIC CO.LTD
NO.268? Fuqian Rd, Jutang community, Guanlan Town, Longhua New district
shenzhen guangdong 518000
CN

94-32-51 (hex) ASKEY COMPUTER CORP
943251 (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585

TW

78-ED-BC (hex) OnePlus Technology (Shenzhen)
Co., Ltd
78EDBC (base 16) OnePlus Technology (Shenzhen) Co., Ltd
18C02, 18C03, 18C04 ,18C05,TAIRAN BUILDING,
Shenzhen Guangdong 518000
CN

DC-E5-D8 (hex) zte corporation
DCE5D8 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

68-94-4A (hex) zte corporation
68944A (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

74-33-E9 (hex) zte corporation
7433E9 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

60-49-66 (hex) Shenzhen Dingsheng Technology Co., Ltd.
604966 (base 16) Shenzhen Dingsheng Technology Co., Ltd.
No. 97 Huaxing Road, Langkou community, Dalang Street, Longhua District Level 4, Building 5, Kaijida Industrial Zone
Shenzhen Guangdong 518000
CN

C8-A3-E8 (hex) CLOUD NETWORK TECHNOLOGY
SINGAPORE PTE. LTD.
C8A3E8 (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

40-B7-0E (hex) Huawei Device Co., Ltd.
40B70E (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

60-6B-5B (hex) Arista Network, Inc.

606B5B (base 16) Arista Network, Inc.
5453 Great America Parkway
Santa Clara CA 95054
US

FC-C0-CC (hex) Yunke China Information Technology Limited
FCC0CC (base 16) Yunke China Information Technology Limited
Digital Technology Plaza,NO.9 Shangdi 9th Street,Haidian District,Beijing,China
Beijing 100080
CN

48-EB-65 (hex) Henan KunLun Technologies CO.,Ltd.
48EB65 (base 16) Henan KunLun Technologies CO.,Ltd.
10th Floor, Chuangzhi Tiandi Building,North Shigeng Street, Zhongdao East RoadLongzihu Wisdom IslandZhengdong New District
Zhengzhou Henan 450046
CN

1C-21-56 (hex) Smappee NV
1C2156 (base 16) Smappee NV
Evolis 104
Harelbeke 8530
BE

A8-41-F4 (hex) AzureWave Technology Inc.
A841F4 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

C4-CB-76 (hex) Microsoft Corporation
C4CB76 (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

D8-D6-68 (hex) Tuya Smart Inc.
D8D668 (base 16) Tuya Smart Inc.
160 Greentree Drive, Suite 101
Dover DE 19904
US

00-4C-E5 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
004CE5 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

C0-91-20 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
C09120 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain
Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

40-72-18 (hex) Tonly Technology Co. Ltd
407218 (base 16) Tonly Technology Co. Ltd
Section 37, Zhongkai Hi-Tech Development Zone
Huizhou Guangdong 516006
CN

40-9E-A4 (hex) Juniper Networks
409EA4 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

4C-50-DD (hex) Hui Zhou Gaoshengda Technology Co.,LTD
4C50DD (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.2,Jin-da Road,Huinan Industrial Park
Hui Zhou Guangdong 516025
CN

9C-B4-00 (hex) zte corporation
9CB400 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

88-60-76 (hex) Sparnex n.v.
886076 (base 16) Sparnex n.v.
Kielsevest 35
Antwerpen Antwerpen 2018
BE

0C-D5-D3 (hex) Cisco Systems, Inc
0CD5D3 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose
CA 94568
US

BC-4C-78 (hex) HUAWEI TECHNOLOGIES CO.,LTD
BC4C78 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808

CN

D4-5F-7A (hex) HUAWEI TECHNOLOGIES CO.,LTD
D45F7A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A8-05-56 (hex) vivo Mobile Communication Co., Ltd.
A80556 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

F0-07-27 (hex) INTEREL BUILDING AUTOMATION
F00727 (base 16) INTEREL BUILDING AUTOMATION
1508 TIFFANY TOWER CLUSTER W
JLT DUBAI 124021
AE

B0-52-46 (hex) NXP Semiconductor (Tianjin) LTD.
B05246 (base 16) NXP Semiconductor (Tianjin) LTD.
No.15 Xinghua Avenue, Xiqing Economic Development Area
Tianjin 300385
CN

F8-71-A6 (hex) Apple, Inc.
F871A6 (base 16) Apple, Inc.
1
Infinite Loop
Cupertino CA 95014
US

78-A7-C7 (hex) Apple, Inc.
78A7C7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

98-FE-E1 (hex) Apple, Inc.
98FEE1 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

34-09-62 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
340962 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road

Hangzhou Zhejiang 310052
CN

D0-C0-50 (hex) Apple, Inc.
D0C050 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

84-94-37 (hex) Apple, Inc.
849437 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

2C-81-BF (hex) Apple, Inc.
2C81BF (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

28-34-FF (hex) Apple, Inc.
2834FF (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

10-06-48 (hex) IEEE Registration Authority
100648
(base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

00-0D-2C (hex) Lantronix
000D2C (base 16) Lantronix
Kulite House Stroudley Road
Basingstoke Hampshire RG24 8UG
GB

14-AE-68 (hex) KLG Smartec
14AE68 (base 16) KLG Smartec
Arbachtalstrasse 6, 72800
Eningen 72800
DE

44-E4-E6 (hex) Extreme Networks Headquarters
44E4E6 (base 16) Extreme Networks Headquarters

2121 RDU Center Drive
Morrisville NC 27560
US

EC-46-2C (hex) Infinix mobility limited
EC462C (base 16) Infinix mobility limited
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
HongKong HongKong 999077
HK

30-16-9D (hex) MERCUSYS TECHNOLOGIES CO., LTD.
30169D (base 16) MERCUSYS TECHNOLOGIES CO., LTD.
3F,Zone B,Building R1,High-Tech Industrial Village,No.023 High-Tech South 4 Road,Nanshan,Shenzhen
Shenzhen Guangdong 518057
CN

C8-75-F4
(hex) China Mobile Group Device Co.,Ltd.
C875F4 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

2C-53-2B (hex) TCT mobile ltd
2C532B (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

64-FD-29 (hex) Zhejiang Dahua Technology Co., Ltd.
64FD29 (base 16) Zhejiang Dahua Technology Co., Ltd.
No.1199,Waterfront Road
?? ?? 310053
CN

74-2E-4F (hex) Stienen Group
742E4F (base 16) Stienen Group
Mangaanstraat 9
Nederweert 6031RT
NL

5C-83-6C (hex) Ruckus Wireless
5C836C (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

70-4C-A5 (hex) Fortinet, Inc.
704CA5 (base 16) Fortinet, Inc.
899 Kifer Road
Sunnyvale 94086
US

04-D5-90 (hex) Fortinet, Inc.
04D590 (base 16) Fortinet, Inc.
899 Kifer Road
Sunnyvale 94086
US

94-F3-92
(hex) Fortinet, Inc.
94F392 (base 16) Fortinet, Inc.
899 Kifer Road
Sunnyvale 94086
US

4C-4C-D8 (hex) zte corporation
4C4CD8 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

5C-53-10 (hex) Nanjing Qinheng Microelectronics Co., Ltd.
5C5310 (base 16) Nanjing Qinheng Microelectronics Co., Ltd.
No.18, Ningshuang Road
Nanjing Jiangsu 210012
CN

8C-88-81 (hex) Cisco Meraki
8C8881 (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco 94158
US

34-D2-62 (hex) SZ DJI TECHNOLOGY CO.,LTD
34D262 (base 16) SZ DJI TECHNOLOGY CO.,LTD
DJI Sky City, No55 Xianyuan Road, Nanshan District
Shenzhen Guangdong 518057
CN

D8-B0-20 (hex) Taicang T&W Electronics
D8B020 (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

D4-F3-2D (hex) Intel Corporate
D4F32D (base
16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

2C-7B-A0 (hex) Intel Corporate
2C7BA0 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

54-22-E0 (hex) Adtran Inc
5422E0 (base 16) Adtran Inc
901 Explorer Blvd.
Huntsville AL 35806-2807
US

C4-07-78 (hex) New H3C Technologies Co., Ltd
C40778 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

FC-8A-F7 (hex) zte corporation
FC8AF7 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

10-04-C1 (hex) JD Cloud Computing Co., Ltd.
1004C1 (base 16) JD Cloud Computing Co., Ltd.
Building 2-A, JD Headquarters, Kechuang 11th Street, Yizhuang Economic Development Zone, Daxing District
Beijing 100176
CN

24-D2-08 (hex) Sensata Technologies Inc.
24D208 (base 16) Sensata
Technologies Inc.
529 Pleasant Street
Attleboro MA 02703
US

78-91-E9 (hex) Raisecom Technology CO., LTD
7891E9 (base 16) Raisecom Technology CO., LTD
No. 11, East Area, No. 10 Block, East Xibeiwang Road

Beijing 100094
CN

E8-55-40 (hex) WUXI FUNIDE DIGITAL CO.,LTD
E85540 (base 16) WUXI FUNIDE DIGITAL CO.,LTD
No.55 Youshen Road, Yunlin Street, Xishan District
WUXI JIANGSU 214101
CN

54-D6-0D (hex) Hangzhou Ezviz Software Co.,Ltd.
54D60D (base 16) Hangzhou Ezviz Software Co.,Ltd.
Room 302, Unit B, Building 2, 399 Danfeng Road,Binjiang District
Hangzhou Zhejiang 310051
CN

58-96-71 (hex) Wistron Neweb Corporation
589671 (base 16) Wistron Neweb Corporation
No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu R.O.C. 308
TW

C4-50-9C (hex) Vantiva - Connected Home
C4509C (base 16) Vantiva - Connected Home
4855 Peachtree Industrial Blvd, #200
Norcross GA 30092
US

30-8E-CF
(hex) HUAWEI TECHNOLOGIES CO.,LTD
308ECF (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D8-29-F8 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D829F8 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

78-39-2D (hex) IEEE Registration Authority
78392D (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

8C-1A-50 (hex) China Mobile Group Device Co.,Ltd.
8C1A50 (base 16) China Mobile Group Device Co.,Ltd.

32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

A8-5C-03 (hex) Jiang Su Fulian Communication Technology Co., Ltd
A85C03 (base 16) Jiang Su Fulian Communication Technology Co., Ltd
Yongan Community, the south of Lanling RoadDanyang Development District
Zhen Jiang Jiang Su 212300
CN

D4-00-68 (hex) Fiberhome Telecommunication
Technologies Co.,LTD
D40068 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

38-63-7F (hex) Fiberhome Telecommunication Technologies Co.,LTD
38637F (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

C8-FE-0F (hex) SHENZHEN BILIAN ELECTRONIC CO.LTD
C8FE0F (base 16) SHENZHEN BILIAN ELECTRONIC CO.LTD
NO.268? Fuqian Rd, Jutang community, Guanlan Town, Longhua New district
shenzhen guangdong 518000
CN

70-F6-CF (hex) Relay, Inc.
70F6CF (base 16) Relay, Inc.
4200 Six Forks RdSuite 1800
Raleigh NC 27609
US

38-76-05 (hex) Inogeni
387605 (base 16) Inogeni
1045 wilfrid pelletier
quebec QUEBEC g1w 0c6
CA

24-9D-2A (hex) LinkData Technology (Tianjin) Co., LTD
249D2A (base 16) LinkData Technology (Tianjin) Co., LTD

E4-E6-6C (hex) Tiandy Technologies

Co.,LTD
E4E66C (base 16) Tiandy Technologies Co.,LTD
NO.8,haitai huake rd2 (outside ring road),huayuan new technology industrial park
Tianjin Tianjin 300384
CN

84-3E-03 (hex) Sagemcom Broadband SAS
843E03 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

54-9A-8F (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
549A8F (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

A8-EF-5F (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
A8EF5F (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

BC-E0-01 (hex) Netis Technology Co., Ltd.
BCE001 (base 16) Netis Technology Co., Ltd.
8 Floor, Bd B, information port, Langshan RD,
Nanshan district,
Shenzhen Guangdong 518057
CN

D0-3E-07 (hex) Apple, Inc.
D03E07 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

50-B1-27 (hex) Apple, Inc.
50B127 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C8-10-72 (hex) BBPOS Limited
C81072 (base 16) BBPOS Limited
15/F., Tower 2, Nina Tower, 8 Yeung Uk Road, Tsuen Wan, NT
Hong Kong 00000
HK

0C-A1-38 (hex) BLiNQ Networks Inc.
0CA138 (base 16) BLiNQ Networks Inc.
200-140 Renfrew Drive
Markham Ontario L3R 6B3
CA

E4-F3-F5 (hex) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
E4F3F5 (base 16) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
6th Floor, South Section, Building 23, Keyuan West, NO.1 Kezhi West Road, Science and Technology Community, Yuehai Street, Nanshan District
Shenzhen Guangdong 518057
CN

C0-A5-DD (hex) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
C0A5DD
(base 16) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
6th Floor, South Section, Building 23, Keyuan West, NO.1 Kezhi West Road, Science and Technology Community, Yuehai Street, Nanshan District
Shenzhen Guangdong 518057
CN

F8-FB-90 (hex) Texas Instruments
F8FB90 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

44-6B-1F (hex) Texas Instruments
446B1F (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

F0-10-A5 (hex) Texas Instruments
F010A5 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

C0-25-2F (hex) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
C0252F (base 16) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
6th Floor, South Section, Building 23, Keyuan West, NO.1 Kezhi West Road, Science and Technology Community, Yuehai Street, Nanshan District
Shenzhen Guangdong 518057
CN

D8-EE-42 (hex) Sichuan Tianyi Comheart

Telecom Co.,LTD
D8EE42 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

28-AF-42 (hex) Samsung Electronics Co.,Ltd
28AF42 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

1C-CE-51 (hex) AzureWave Technology Inc.
1CCE51 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

68-33-EE (hex) ARRIS Group, Inc.
6833EE (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

C0-63-80 (hex) Texas Instruments
C06380 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

10-63-4B (hex) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
10634B (base 16) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
6th Floor, South Section, Building 23, Keyuan West, NO.1 Kezhi West
Road, Science and Technology Community, Yuehai Street, Nanshan District
Shenzhen Guangdong 518057
CN

04-4B-A5 (hex) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
044BA5 (base 16) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
6th Floor, South Section, Building 23, Keyuan West, NO.1 Kezhi West Road, Science and Technology Community, Yuehai Street, Nanshan District
Shenzhen Guangdong 518057
CN

D4-84-09 (hex) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
D48409 (base 16) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
6th Floor, South Section, Building 23, Keyuan West, NO.1 Kezhi West Road, Science and Technology Community, Yuehai Street, Nanshan District

Shenzhen Guangdong 518057
CN

BC-02-6E (hex) Silicon Laboratories
BC026E (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

B4-35-22 (hex) Silicon Laboratories
B43522 (base 16) Silicon Laboratories
400
West Cesar Chavez
Austin TX 78701
US

90-39-5E (hex) Silicon Laboratories
90395E (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

E8-E0-7E (hex) Silicon Laboratories
E8E07E (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

B0-C7-DE (hex) Silicon Laboratories
B0C7DE (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

88-1A-14 (hex) Silicon Laboratories
881A14 (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

44-E2-F8 (hex) Silicon Laboratories
44E2F8 (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

E4-12-26 (hex) Continental Automotive Romania SLR
E41226 (base 16) Continental Automotive Romania SLR

Str Siemens no.1, 300701 Timisoara, Romania
Timisoara 300701
RO

30-FB-68 (hex) Wuhan Zmvision Technology Co. Ltd.
30FB68
(base 16) Wuhan Zmvision Technology Co. Ltd.
15th Floor,Bainaohui Office,NO.10,Luo Yu Road,Wuchang District
Wuhan 430000
CN

F4-ED-37 (hex) Qingdao Yuze lntelligent Technology Co.,Ltd
F4ED37 (base 16) Qingdao Yuze lntelligent Technology Co.,Ltd
Room 5410-448, Building1, No. 31 Longcheng Road, Shibei District, Qingdao
Qingdao 266000
CN

B8-DB-38 (hex) Google, Inc.
B8DB38 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

54-64-BC (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
5464BC (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

24-68-30 (hex) Shenzhen Shokzhear Co., Ltd
246830 (base 16) Shenzhen Shokzhear Co., Ltd
Floors 5, Factory Building 28, Shancheng Industrial Park, Shixin Community, Langxin Community, Shiyan Street, Bao'an District, Shenzhen, Guangdong, China.
Shenzhen Guangdong 518108
CN

3C-90-E0
(hex) HUAWEI TECHNOLOGIES CO.,LTD
3C90E0 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

70-73-62 (hex) HUAWEI TECHNOLOGIES CO.,LTD
707362 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

30-A3-0F (hex) HUAWEI TECHNOLOGIES CO.,LTD
30A30F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

30-8D-D4 (hex) HUAWEI TECHNOLOGIES CO.,LTD
308DD4 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

74-C6-4A (hex) AGOS Co.,Ltd
74C64A (base 16) AGOS Co.,Ltd
#1406, 145, Gasandigital 1-ro, Geumcheon-gu
Seoul 08506
KR

24-58-7C (hex) Espressif Inc.
24587C (base 16) Espressif Inc.
Room 204, Building
2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

CC-8D-A2 (hex) Espressif Inc.
CC8DA2 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

EC-31-4A (hex) Chengdu Quanjing Intelligent Technology Co.,Ltd
EC314A (base 16) Chengdu Quanjing Intelligent Technology Co.,Ltd
Building A2, Chi Yuen Technology Park, 1001 College Avenue, Nanshan District, Shenzhen,P.R.C.
Shenzhen Guangdong 518000
CN

E4-61-F4 (hex) shenzhen worldelite electronics co., LTD
E461F4 (base 16) shenzhen worldelite electronics co., LTD
Office 5 F, Xiang Yu Industrial Park, Longsheng Road, Longgang Dist
Shenzhen Guangdong 51800
CN

10-9F-47 (hex) Shenzhen Skyworth Digital Technology CO., Ltd
109F47 (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057

CN

E4-37-9F (hex) Cisco Systems, Inc
E4379F
(base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

F8-20-D2 (hex) ARRIS Group, Inc.
F820D2 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-26-A4 (hex) Novus Produtos Eletronicos Ltda
0026A4 (base 16) Novus Produtos Eletronicos Ltda
Rua Engenheiro Homero Carlos Simon, 737
Canoas RS 92442-000
BR

04-F4-D8 (hex) Hui Zhou Gaoshengda Technology Co.,LTD
04F4D8 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.2,Jin-da Road,Huinan Industrial Park
Hui Zhou Guangdong 516025
CN

3C-B4-3D (hex) SZ Tenveo video technology co., Ltd
3CB43D (base 16) SZ Tenveo video technology co., Ltd
8th Floor Fukang technology Buildinglonghua district
shenzhen guangdong 518000
CN

14-C6-7D (hex) Vizio, Inc
14C67D (base 16) Vizio, Inc
39 Tesla
Irvine CA 92618
US

D4-AD-FC (hex) Shenzhen Intellirocks Tech. Co. Ltd.
D4ADFC (base 16) Shenzhen
Intellirocks Tech. Co. Ltd.
No. 3301, Block C, Section 1, Chuangzhi Yuncheng Building, Liuxian Avenue,Xili Community, Xili Street, Nanshan District
Shenzhen Guangdong 518000
CN

E8-27-25 (hex) Axis Communications AB

E82725 (base 16) Axis Communications AB
Gränden 1
Lund 22369
SE

9C-C8-E9 (hex) Amazon Technologies Inc.
9CC8E9 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

60-6B-B3 (hex) zte corporation
606BB3 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

A0-DD-6C (hex) Espressif Inc.
A0DD6C (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

54-78-85 (hex) SHENZHEN GIEC DIGITAL CO.,LTD
547885 (base 16) SHENZHEN GIEC DIGITAL CO.,LTD
1st&3rd Building,No.26 Puzai Road, Pingdi, Longgang
SHENZHEN Guanggong 518117
CN

00-0E-2A
(hex) dormakaba USA Inc.
000E2A (base 16) dormakaba USA Inc.
Dorma Drive, Box AC
Reamstown PA 17567
US

74-30-9D (hex) Infinix mobility limited
74309D (base 16) Infinix mobility limited
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
HongKong HongKong 999077
HK

64-F0-AD (hex) Zhejiang Tmall Technology Co., Ltd.
64F0AD (base 16) Zhejiang Tmall Technology Co., Ltd.
No.969 Wenyi West Road, Wuchang Street, Yuhang District
Hangzhou Zhejiang 310024
CN

54-A7-A0 (hex) HUNAN AIMAG INTELLIGENT TECHNOLOGY CO.,LTD
54A7A0 (base 16) HUNAN AIMAG INTELLIGENT TECHNOLOGY CO.,LTD
room 210 Building 3 Yungu Phase 2 Nanshan
Shenzhen 18000
CN

D0-EF-76 (hex) Espressif Inc.
D0EF76 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

C4-D8-D5 (hex) Espressif Inc.
C4D8D5 (base 16) Espressif
Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

E8-F0-85 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E8F085 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

3C-36-6A (hex) HUAWEI TECHNOLOGIES CO.,LTD
3C366A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

EC-5A-A3 (hex) Huawei Device Co., Ltd.
EC5AA3 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

E4-FA-C4 (hex) TP-LINK CORPORATION PTE. LTD.
E4FAC4 (base 16) TP-LINK CORPORATION PTE. LTD.
7 Temasek Boulevard #29-03 Suntec Tower One
Singapore 038987
SG

40-AE-30 (hex) TP-LINK CORPORATION PTE. LTD.
40AE30 (base 16) TP-LINK CORPORATION PTE. LTD.
7 Temasek Boulevard #29-03 Suntec Tower One
Singapore 038987

SG

2C-66-AD
(hex) NimbleTech Digital Inc.
2C66AD (base 16) NimbleTech Digital Inc.
13 F.-9, No. 738, Zhongzheng Rd., Zhonghe Dist., New Taipei City 235603, Taiwan (R.O.C.)
New Taipei City 235603
TW

44-E6-4A (hex) Shenzhen iComm Semiconductor CO.,LTD
44E64A (base 16) Shenzhen iComm Semiconductor CO.,LTD
Room 601,Block B ,Digital Building,Garden City
Shenzhen No.1079 Nanhai Road,Nanshan District 518067
CN

70-13-01 (hex) Vantiva - Connected Home
701301 (base 16) Vantiva - Connected Home
4855 Peachtree Industrial Blvd, Suite 200
Norcross GA 30902
US

D0-4F-AB (hex) Yoqu Technology (Shenzhen) Co., Ltd.
D04FAB (base 16) Yoqu Technology (Shenzhen) Co., Ltd.
No. 525, Block C, New Generation Information Technology Industrial Park, Chuangye 2nd Road, Bao'an District,
Shenzhen Guangdong 518000
CN

00-25-FC (hex) ENDA
0025FC (base 16) ENDA
Y. Dudullu Barbaros C. Kutup S. No. 20
Istanbul
34775
TR

98-87-6C (hex) Huawei Device Co., Ltd.
98876C (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

0C-83-06 (hex) Huawei Device Co., Ltd.
0C8306 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

EC-CD-4C (hex) New H3C Technologies Co., Ltd
ECCD4C (base 16) New H3C Technologies Co., Ltd

466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

F0-ED-19 (hex) zte corporation
F0ED19 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

04-6E-CB (hex) zte corporation
046ECB (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

20-5D-0D (hex) Fiberhome Telecommunication Technologies Co.,LTD
205D0D (base 16) Fiberhome Telecommunication
Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

E0-B7-63 (hex) Bosch Automotive Products (Suzhou) Co., Ltd. Changzhou Branch
E0B763 (base 16) Bosch Automotive Products (Suzhou) Co., Ltd. Changzhou Branch
No 17 Longmen Road, Hi-Tech development zone Wujin district
Chang zhou Jiang Su 213164
CN

E8-14-99 (hex) Yoqu Technology(Shenzhen)Co.,Ltd.
E81499 (base 16) Yoqu Technology(Shenzhen)Co.,Ltd.
No. 525, Block C, New Generation Information Technology Industrial Park, Chuangye 2nd Road, Bao'an District, Shenzhen, China
shenzhen Guangdong 518000
CN

10-2F-F8 (hex) Vicoretek (Nanjing) Co.,Ltd.
102FF8 (base 16) Vicoretek (Nanjing) Co.,Ltd.
Unit L10-1,1F, podium building, Jindi Weixin Yuhua lnnovation Center, No. 23 Andemen Street, Yuhuatai District, Nanjing
Nanjing Jiangsu 210000
CN

68-4D-B6 (hex) Xiaomi Communications Co Ltd
684DB6 (base 16) Xiaomi Communications Co Ltd
#019,
9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085

CN

F0-E7-52 (hex) Shenzhen Huajuxin Semiconductor Co.,ltd
F0E752 (base 16) Shenzhen Huajuxin Semiconductor Co.,ltd
Baoan street
Shenzhen Guangdong 518000
CN

60-34-57 (hex) HP Tuners LLC
603457 (base 16) HP Tuners LLC
700 Eastwood Ln
Buffalo Grove IL 60089
US

C8-CD-55 (hex) Ruijie Networks Co.,LTD
C8CD55 (base 16) Ruijie Networks Co.,LTD
Building 19,Juyuanzhou Industrial Park, No.618 Jinshan Avenue, Cangshan District
Fuzhou 35000
CN

C4-B2-5B (hex) Ruijie Networks Co.,LTD
C4B25B (base 16) Ruijie Networks Co.,LTD
Building 19,Juyuanzhou Industrial Park, No.618 Jinshan Avenue, Cangshan District
Fuzhou 35000
CN

98-4A-6B (hex) Ruijie Networks Co.,LTD
984A6B (base 16) Ruijie Networks Co.,LTD
Building 19,Juyuanzhou Industrial Park, No.618 Jinshan Avenue, Cangshan District
Fuzhou 35000
CN

78-66-F3
(hex) shenzhen worldelite electronics co., LTD
7866F3 (base 16) shenzhen worldelite electronics co., LTD
Office 5 F, Xiang Yu Industrial Park, Longsheng Road, Longgang Dist
Shenzhen Guangdong 51800
CN

28-22-1E (hex) HUAWEI TECHNOLOGIES CO.,LTD
28221E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

24-EF-B4 (hex) Shanghai Neardi Technologies Co. Ltd.
24EFB4 (base 16) Shanghai Neardi Technologies Co. Ltd.
807, Bldg 1, Lane 1505, Lianhang Rd

Minhang District Shanghai 201112
CN

C0-6F-98 (hex) eero inc.
C06F98 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

D8-A0-E6 (hex) Chongqing Yipingfang Technology Co., Ltd.
D8A0E6 (base 16) Chongqing Yipingfang Technology Co., Ltd.
No. 1-10, Tieshan Road, Biquan Street, Bishan District, Chongqing
ChongQing 402760
CN

0C-0A-DF (hex) Texas Instruments
0C0ADF
(base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

DC-BE-04 (hex) Texas Instruments
DCBE04 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

64-BA-A4 (hex) zte corporation
64BAA4 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

C4-57-CD (hex) HUAWEI TECHNOLOGIES CO.,LTD
C457CD (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

08-DD-EB (hex) Silicon Laboratories
08DDEB (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

38-24-F1 (hex) Private
3824F1 (base 16) Private

BC-BB-58 (hex) Apple, Inc.
BCBB58 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

30-3B-7C (hex) Apple, Inc.
303B7C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-81-2A
(hex) Apple, Inc.
00812A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

1C-E2-09 (hex) Apple, Inc.
1CE209 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

6C-C4-1E (hex) NEXSEC Incorporated
6CC41E (base 16) NEXSEC Incorporated
Room 201, Floor 2, Unit 2, Building 15, No.3 Gaolizhang Road, Haidian District
Beijing 100094
CN

CC-6A-33 (hex) Cisco Systems, Inc
CC6A33 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

40-D1-60 (hex) Apple, Inc.
40D160 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

90-03-71 (hex) Quectel Wireless Solutions Co.,Ltd.
900371 (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233

CN

94-9F-8B (hex) zte corporation
949F8B (base 16) zte corporation
12/F.,zte R&D building ,kejinan
Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

18-EF-C0 (hex) Sercomm Japan Corporation
18EFC0 (base 16) Sercomm Japan Corporation
8F, 3-1, YuanQu St., NanKang, Taipei 115, Taiwan
Taipei 115
TW

80-28-3C (hex) Sonova AG
80283C (base 16) Sonova AG
Laubisruetistrasse 28
Staefa 8712
CH

80-AE-54 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
80AE54 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

F4-6E-D6 (hex) EM Microelectronic
F46ED6 (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

94-8C-D7 (hex) Hui Zhou Gaoshengda Technology Co.,LTD
948CD7 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.2,Jin-da Road,Huinan Industrial Park
Hui Zhou Guangdong 516025
CN

48-E9-CA (hex) creoline GmbH
48E9CA (base 16) creoline
GmbH
Bergstr. 9A
Altenberge North Rhine-Westphalia 48341
DE

3C-08-68 (hex) Power Plus Communications AG
3C0868 (base 16) Power Plus Communications AG

Dudenstrasse 6
Mannheim 68167
DE

90-15-64 (hex) IEEE Registration Authority
901564 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

40-8F-9A (hex) KanEL Sweden AB
408F9A (base 16) KanEL Sweden AB
Peter Myndes backe 16
Stockholm 11846
SE

00-1C-A1 (hex) Akamai Technologies Inc.
001CA1 (base 16) Akamai Technologies Inc.
145 Broadway
Cambridge MA 02142
US

C4-C6-E6 (hex) LCFC(HeFei) Electronics Technology co., ltd
C4C6E6 (base 16) LCFC(HeFei) Electronics Technology co., ltd
No.3188-1,YunGu Road(Comprehensive Bonded Zone),Hefei Economic and Technological Development Area
HEFEI 230601
CN

20-50-0F (hex) Fiber Groep B.V.
20500F (base 16) Fiber Groep B.V.
Transistorstraat
7
Almere Flevoland 1322CJ
NL

D4-7F-35 (hex) Cisco Systems, Inc
D47F35 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

50-79-73 (hex) Inagile Electronic Technology Co.,LTD.
507973 (base 16) Inagile Electronic Technology Co.,LTD.
Building 9,no.1 guanpu road suzhou City Jiangsu Province,P.R.China
Suzhou 215000
CN

5C-35-48 (hex) Aditya Infotech Ltd.

5C3548 (base 16) Aditya Infotech Ltd.
Khemka Square, A-12, Sector-4,
Noida Uttar Pradesh 201301
IN

C8-5C-E2 (hex) IEEE Registration Authority
C85CE2 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

DC-EE-14 (hex) ADT Technology
DCEE14 (base 16) ADT Technology
Room 325, 3rd Floor, Building F, Xinmao Science and Technology Park, Huayuan Industrial Zone
Tianjin Tianjin 300384
CN

E8-4A-54 (hex) Beijing Xiaomi Mobile Software Co., Ltd
E84A54 (base 16) Beijing Xiaomi Mobile
Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

78-7D-53 (hex) Extreme Networks Headquarters
787D53 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

20-9E-F7 (hex) Extreme Networks Headquarters
209EF7 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

D8-84-66 (hex) Extreme Networks Headquarters
D88466 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

00-04-96 (hex) Extreme Networks Headquarters
000496 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

00-E0-2B (hex) Extreme Networks Headquarters
00E02B (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

58-58-CD (hex) Extreme Networks Headquarters
5858CD
(base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

DC-DC-C3 (hex) Extreme Networks Headquarters
DCDCC3 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

C8-BE-35 (hex) Extreme Networks Headquarters
C8BE35 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

10-FF-E0 (hex) GIGA-BYTE TECHNOLOGY CO.,LTD.
10FFE0 (base 16) GIGA-BYTE TECHNOLOGY CO.,LTD.
Pin-Jen City, Taoyuan, Taiwan, R.O.C.
Pin-Jen Taoyuan 324
TW

F0-64-26 (hex) Extreme Networks Headquarters
F06426 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

7C-95-B1 (hex) Extreme Networks Headquarters
7C95B1 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

18-49-F8 (hex) Extreme Networks Headquarters
1849F8 (base
16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560

US

80-95-62 (hex) Extreme Networks Headquarters
809562 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

58-59-C2 (hex) Extreme Networks Headquarters
5859C2 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

4C-23-1A (hex) Extreme Networks Headquarters
4C231A (base 16) Extreme Networks Headquarters
6480 Via Del Oro
San Jose CA 95119
US

2C-AB-46 (hex) Ruckus Wireless
2CAB46 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

74-24-9F (hex) TIBRO Corp.
74249F (base 16) TIBRO Corp.
251 Little Falls Drive
Wilmington DE 19808
US

A0-D8-6F (hex) ARGO AI, LLC
A0D86F (base 16) ARGO AI, LLC
40, 24th Street, Second Floor
Pittsburgh PA 15222
US

84-31-A8 (hex) Wuhan Funshion Online
Technologies Co.,Ltd
8431A8 (base 16) Wuhan Funshion Online Technologies Co.,Ltd
5th Floor,Financial Port Building A9,No.77 Optical Valley Avenue, East Lake High-Tech Development Zone, Wuhan
Wuhan CN/Hubei 430000
CN

C0-5D-39 (hex) Jiangsu Huitong Group Co.,Ltd.
C05D39 (base 16) Jiangsu Huitong Group Co.,Ltd.

No. 24, Block 2, Taohuawu New District
Zhenjiang Jiangsu 212003
CN

90-A1-BA (hex) PNetworks Electronics Information
90A1BA (base 16) PNetworks Electronics Information
SANAYI MAH. TEKNOPARK BUL. TEKNOPARK A1 BLOK NO: 1-1A IC KAPI NO: 207 PENDIK - ISTANBUL - TURKEY
Istanbul Pendik 34906
TR

00-0A-D7 (hex) Origin Co., Ltd.
000AD7 (base 16) Origin Co., Ltd.
3-3-27 Sakawa Sakura-ku
Saitama-shi Saitama 338-0823
JP

00-84-ED (hex) LEXMARK INTERNATIONAL, INC.
0084ED (base 16) LEXMARK INTERNATIONAL, INC.
740 W. New Circle Rd.
Lexington KY 40550
US

F8-C6-50 (hex) Cisco Systems,
Inc
F8C650 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

B4-D7-DB (hex) New H3C Technologies Co., Ltd
B4D7DB (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

30-50-CE (hex) Xiaomi Communications Co Ltd
3050CE (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

B4-05-A1 (hex) Xiaomi Communications Co Ltd
B405A1 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

5C-0E-8B (hex) Extreme Networks Headquarters
5C0E8B (base 16) Extreme Networks Headquarters
475 Half Day Road
Lincolnshire IL 60069
US

74-67-F7 (hex) Extreme Networks Headquarters
7467F7 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

F4-54-24
(hex) Extreme Networks Headquarters
F45424 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

F0-2B-7C (hex) Extreme Networks Headquarters
F02B7C (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

B4-56-5D (hex) Chipsea Technologies (Shenzhen) Corp.
B4565D (base 16) Chipsea Technologies (Shenzhen) Corp.
3 / F, Block A, Building 2, Shenzhen Bay Innovation Technology Center, No.3156 keyuan South Road, Yuehai Street, Nanshan District, Shenzhen
Shenzhen Guangdong 518000
CN

4C-E1-36 (hex) Private
4CE136 (base 16) Private

3C-10-60 (hex) Fiberhome Telecommunication Technologies Co.,LTD
3C1060 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

28-85-BB (hex) Zen Exim Pvt. Ltd.
2885BB (base 16) Zen Exim Pvt. Ltd.
2/4 Floor, Shakti 404,S.G.Highway,
Ahmedabad
Gujarat 380054
IN

B8-10-D4 (hex) Masimo Corporation
B810D4 (base 16) Masimo Corporation
52 Discovery
Irvine CA 92618
US

C8-9F-0C (hex) Motorola Mobility LLC, a Lenovo Company
C89F0C (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

64-85-05 (hex) zte corporation
648505 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

E4-60-4D (hex) zte corporation
E4604D (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

F4-E8-4F (hex) zte corporation
F4E84F (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

E8-22-B8 (hex) Shenzhen Skyworth Digital Technology CO., Ltd
E822B8 (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block
A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

74-4D-BD (hex) Espressif Inc.
744DBD (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

00-F9-52 (hex) HUAWEI TECHNOLOGIES CO.,LTD
00F952 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

48-35-43 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
483543 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

2C-15-D9 (hex) HUAWEI TECHNOLOGIES CO.,LTD
2C15D9 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D4-A9-23 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D4A923 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C8-78-67
(hex) Mist Systems, Inc.
C87867 (base 16) Mist Systems, Inc.
1601 South De Anza Blvd, Suite 248
Cupertino CA 95014
US

DC-2D-04 (hex) vivo Mobile Communication Co., Ltd.
DC2D04 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

A4-3C-D7 (hex) NTX Electronics YangZhou co.,LTD
A43CD7 (base 16) NTX Electronics YangZhou co.,LTD
No.8,Wuzhou West Road,Economic and technological Development Zone,Yangzhou,Jiangsu Province,PRC,225009
Yangzhou Jiangsu 225009
CN

28-E6-A9 (hex) Samsung Electronics Co.,Ltd
28E6A9 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

4C-5F-70 (hex) Intel Corporate
4C5F70 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000

MY

00-02-63 (hex) RPS S.p.A.
000263 (base 16) RPS S.p.A.
Viale Europa 7
Legnago 37045
IT

58-07-F8
(hex) Nokia Solutions and Networks GmbH & Co. KG
5807F8 (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541
DE

DC-65-55 (hex) New H3C Intelligence Terminal Co., Ltd.
DC6555 (base 16) New H3C Intelligence Terminal Co., Ltd.
Room 406-100, 1 Yichuang Street, China-Singapore Guangzhou Knowledge City, Huangpu District, Guangzhou.
Guangzhou Guangdong 510030
CN

60-B9-C0 (hex) Cisco Systems, Inc
60B9C0 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

8C-94-61 (hex) Cisco Systems, Inc
8C9461 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A8-0B-FB (hex) Ruckus Wireless
A80BFB (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

3C-FA-30 (hex) Palo Alto Networks
3CFA30 (base 16) Palo Alto Networks
3000 Tannery Way
Santa Clara CA 95054
US

CC-EC-B7
(hex) ShenZhen Linked-Z Intelligent Display Co., Ltd
CCECB7 (base 16) ShenZhen Linked-Z Intelligent Display Co., Ltd

Block 128?Huafeng Zhigu-Hangcheng High-tech Industrial Park?Aviation Road?Sanwei Community,Hangcheng Street,Bao'an District
Shenzhen Guangdong 518128
CN

A8-B8-E0 (hex) Changwang Technology inc.
A8B8E0 (base 16) Changwang Technology inc.
No.37,Qinghutou,Renmin Road, Tangxia Town
Dongguan Guangdong 523710
CN

DC-DA-0C (hex) Espressif Inc.
DCDA0C (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

BC-0E-AB (hex) Samsung Electronics Co.,Ltd
BC0EAB (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

98-FB-27 (hex) Samsung Electronics Co.,Ltd
98FB27 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A8-43-A4 (hex) China Dragon Technology Limited
A843A4
(base 16) China Dragon Technology Limited
B4 Bldg.Haoshan 1st Industry Park,
Shenzhen Guangdong 518104
CN

D8-09-4E (hex) Active Brains
D8094E (base 16) Active Brains
Yokohama Mitsui Bldg.12F, 1-1-2 Takashima, Nishi-ku
Yokohama Kanagawa 220-0011
JP

54-33-C6 (hex) Mist Systems, Inc.
5433C6 (base 16) Mist Systems, Inc.
1601 South De Anza Blvd, Suite 248
Cupertino CA 95014
US

34-6F-71 (hex) TenaFe Inc.
346F71 (base 16) TenaFe Inc.
591 W Hamilton Ave #250
Campbell CA 95008
US

54-91-AF (hex) IEEE Registration Authority
5491AF (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

9C-39-28 (hex) Samsung Electronics Co.,Ltd
9C3928 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

6C-22-1A (hex) AltoBeam Inc.
6C221A (base 16) AltoBeam Inc.
B808, Tsinghua Tongfang Hi-Tech Plaza, Haidian
Beijing
Beijing 100083
CN

D8-43-AE (hex) Micro-Star INTL CO., LTD.
D843AE (base 16) Micro-Star INTL CO., LTD.
No.69, Lide St.,
New Taipei City Taiwan 235
TW

00-D0-7C (hex) JTEKT ELECTRONICS CORPORATION
00D07C (base 16) JTEKT ELECTRONICS CORPORATION
4-9-1 TENJIN-CHO,KODAIRA-SHI
TOKYO 187-0004
JP

14-CA-56 (hex) zte corporation
14CA56 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

48-D3-5D (hex) Private
48D35D (base 16) Private

88-6C-60 (hex) Xiaomi Communications Co Ltd
886C60 (base 16) Xiaomi Communications Co Ltd

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

CC-93-4A (hex) Sierra Wireless, ULC
CC934A (base 16) Sierra Wireless, ULC
1381 Wireless Way
Richmond BC CA V6V 3A4
GB

00-A0-D5 (hex) Sierra Wireless, ULC
00A0D5 (base 16) Sierra Wireless,
ULC
13811 Wireless Way
Richmond RICHMOND B.C. V6V 3A4
CA

28-A3-31 (hex) Sierra Wireless, ULC
28A331 (base 16) Sierra Wireless, ULC
13811 Wireless Way
Richmond BC V6V 3A4
CA

B0-18-86 (hex) SmarDTV Corporation
B01886 (base 16) SmarDTV Corporation
147 Avenue du Jujubier
ZI Athelia IV La Ciotat 13600
CH

C8-A6-EF (hex) Samsung Electronics Co.,Ltd
C8A6EF (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

E0-DF-13 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
E0DF13 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

5C-E9-31 (hex) TP-Link Corporation Limited
5CE931 (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

A4-22-49 (hex) Sagemcom Broadband SAS

A42249 (base 16) Sagemcom
Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

68-79-09 (hex) Cisco Systems, Inc
687909 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E4-A4-1C (hex) Cisco Systems, Inc
E4A41C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

38-9C-B2 (hex) Apple, Inc.
389CB2 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

58-36-53 (hex) Apple, Inc.
583653 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

04-80-A7 (hex) ShenZhen TianGang Micro Technology CO.LTD
0480A7 (base 16) ShenZhen TianGang Micro Technology CO.LTD
3rd floor ,Building20,QingHu Industrial,QingHu community,LongHua DistrictShenZhen,China
ShenZhen GangDong 518100
CN

40-79-12 (hex) Texas Instruments
407912 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

58-A1-5F
(hex) Texas Instruments
58A15F (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

10-CA-BF (hex) Texas Instruments
10CABF (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

FC-94-E3 (hex) Vantiva USA LLC
FC94E3 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

8C-04-FF (hex) Vantiva USA LLC
8C04FF (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

5C-7D-7D (hex) Vantiva USA LLC
5C7D7D (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

08-A7-C0 (hex) Vantiva USA LLC
08A7C0 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

8C-6A-8D (hex) Vantiva USA LLC
8C6A8D (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

1C-9E-CC (hex) Vantiva USA LLC
1C9ECC
(base 16) Vantiva USA LLC
4855 Peachtree Industrial Blvd, Suite 20
Norcross GA 30902
US

CC-35-40 (hex) Vantiva USA LLC
CC3540 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044

US

B0-C2-87 (hex) Vantiva USA LLC
B0C287 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

FC-91-14 (hex) Vantiva USA LLC
FC9114 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

50-09-59 (hex) Vantiva USA LLC
500959 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

80-D0-4A (hex) Vantiva USA LLC
80D04A (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

3C-B7-4B (hex) Vantiva USA LLC
3CB74B (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

98-52-4A (hex) Vantiva USA
LLC
98524A (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

A0-FF-70 (hex) Vantiva USA LLC
A0FF70 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

84-D3-28 (hex) Apple, Inc.
84D328 (base 16) Apple, Inc.
1 Infinite Loop

Cupertino CA 95014
US

B4-0A-D8 (hex) Sony Interactive Entertainment Inc.
B40AD8 (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

38-17-E1 (hex) Vantiva USA LLC
3817E1 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

BC-9B-68 (hex) Vantiva USA LLC
BC9B68 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

54-5F-A7 (hex) Jibaiyou Technology Co.,Ltd.
545FA7 (base 16) Jibaiyou Technology Co.,Ltd.
No. 11, Guiya Road, Qingxiu District
Nanning Guangxi 530029
CN

08-BF-B8
(hex) ASUSTek COMPUTER INC.
08BFB8 (base 16) ASUSTek COMPUTER INC.
No.15,Lide Rd., Beitou, Dist.,Taipei 112,Taiwan
Taipei Taiwan 112
TW

50-40-74 (hex) Alarm.com
504074 (base 16) Alarm.com
8281 Greensboro Dr., Suite 100
Tysons VA 22102
US

5C-7B-5C (hex) Shenzhen SDMC Technology CO.,Ltd.
5C7B5C (base 16) Shenzhen SDMC Technology CO.,Ltd.
Room 1022, Floor 10, Building A, Customs Building, No. 2, Xin'an 3rd Road, Dalang Community, Xin'an Street, Bao'an District
Shenzhen GUANGDONG 518101
CN

BC-5C-17 (hex) Qingdao Intelligent&Precise Electronics Co.,Ltd.

BC5C17 (base 16) Qingdao Intelligent&Precise Electronics Co.,Ltd.
No.218 Qianwangang Road
Qingdao Shangdong 266510
CN

74-B8-0F (hex) Zipline International Inc.
74B80F (base 16) Zipline International Inc.
333 Corey Way
South San Francisco CA 94080
US

40-75-C3 (hex) Vantiva USA LLC
4075C3 (base 16) Vantiva
USA LLC
4855 Peachtree Industrial Blvd, Suite 20
Norcross GA 30902
US

10-A7-93 (hex) Vantiva USA LLC
10A793 (base 16) Vantiva USA LLC
4855 Peachtree Industrial Blvd, Suite 20
Norcross GA 30902
US

B8-A5-35 (hex) Vantiva USA LLC
B8A535 (base 16) Vantiva USA LLC
4855 Peachtree Industrial Blvd, Suite 20
Norcross GA 30902
US

CC-1A-A3 (hex) Arista Networks
CC1AA3 (base 16) Arista Networks
5453 Great America Parkway
Santa Clara CA 95054
US

8C-CB-14 (hex) TBS GmbH
8CCB14 (base 16) TBS GmbH
Finkenstr. 73
Kaiserslautern 67661
DE

3C-C0-3E (hex) HUAWEI TECHNOLOGIES CO.,LTD
3CC03E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

98-39-C0 (hex) FLEXTRONICS
9839C0 (base 16) FLEXTRONICS
Carretera Base Aerea 5850 int 4
Zapopan Jalisco 45136
MX

D4-31-27 (hex) Ruijie Networks Co.,LTD
D43127
(base 16) Ruijie Networks Co.,LTD
No. 2, 7th floor, xingwangruijie, haixi hi-tech industrial park, high-tech zone, fuzhou city
Fuzhou Fujian 350002
CN

EC-EF-17 (hex) Sunplus Technology Co., Ltd.
ECEF17 (base 16) Sunplus Technology Co., Ltd.
19, Innovation First Road, Hsinchu Science Park
Hsinchu 300
TW

00-30-44 (hex) CradlePoint, Inc
003044 (base 16) CradlePoint, Inc
1100 W. Idaho Street, Suite 800
Boise ID 83702-5389
US

00-E0-1C (hex) CradlePoint, Inc
00E01C (base 16) CradlePoint, Inc
1100 W. Idaho Street, Suite 800
Boise ID 83702-5389
US

70-D8-C2 (hex) Intel Corporate
70D8C2 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

44-59-25 (hex) Square Inc.
445925 (base 16) Square Inc.
1455 Market St.
San Francisco CA 94103
US

18-44-CF (hex) B+L Industrial Measurements GmbH
1844CF (base 16) B+L Industrial Measurements
GmbH
Hans-Bunte-Strasse 10
Heidelberg 69123

DE

4C-C6-4C (hex) Beijing Xiaomi Mobile Software Co., Ltd
4CC64C (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

90-E4-68 (hex) Guangzhou Shiyuan Electronic Technology Company Limited
90E468 (base 16) Guangzhou Shiyuan Electronic Technology Company Limited
No.6, 4th Yunpu Road, Yunpu industry District
Guangzhou Guangdong 510530
CN

58-D2-37 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
58D237 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

88-2F-64 (hex) BCOM Networks Limited
882F64 (base 16) BCOM Networks Limited
ROOM A1, 11/F WINNER BUILDING, 36 MAN YUE STREET, HUNG HOM
KOWLOON 999077
HK

E0-21-FE (hex) Richer Link Technologies CO.,LTD
E021FE
(base 16) Richer Link Technologies CO.,LTD
1001, Building 3, Chongwen Park, Nanshan ZhiYuan, Liuxian Avenue, Nanshan District, Shenzhen City, China.
ShenZhen Guangdong 518000
CN

C8-A3-62 (hex) ASIX Electronics Corporation
C8A362 (base 16) ASIX Electronics Corporation
4F, No. 8, Hsin Ann Road, Hsinchu Science Park
Hsinchu 30078
TW

20-BB-BC (hex) Hangzhou Ezviz Software Co.,Ltd.
20BBBC (base 16) Hangzhou Ezviz Software Co.,Ltd.
Room 302, Unit B, Building 2, 399 Danfeng Road,Binjiang District
Hangzhou Zhejiang 310051
CN

24-FD-FA (hex) Private
24FDFA (base 16) Private

64-B3-79 (hex) Jiangsu Viscore Technologies Co.,Ltd
64B379 (base 16) Jiangsu Viscore Technologies Co.,Ltd

BC-0F-F3 (hex) HP Inc.
BC0FF3 (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

BC-87-FA (hex) Bose Corporation
BC87FA (base 16) Bose Corporation
The Mountain
Framingham
MA 01701-9168
US

9C-2D-CD (hex) LCFC(HeFei) Electronics Technology co., ltd
9C2DCD (base 16) LCFC(HeFei) Electronics Technology co., ltd
No.3188-1,YunGu Road(Comprehensive Bonded Zone),Hefei Economic and Technological Development Area
HEFEI ANHUI 230601
CN

6C-24-08 (hex) LCFC(HeFei) Electronics Technology co., ltd
6C2408 (base 16) LCFC(HeFei) Electronics Technology co., ltd
No.3188-1,YunGu Road(Comprehensive Bonded Zone),Hefei Economic and Technological Development Area
HEFEI ANHUI 230601
CN

88-A4-C2 (hex) LCFC(HeFei) Electronics Technology co., ltd
88A4C2 (base 16) LCFC(HeFei) Electronics Technology co., ltd
No.3188-1,YunGu Road(Comprehensive Bonded Zone),Hefei Economic and Technological Development Area
HEFEI ANHUI 230601
CN

68-47-24 (hex) EM Microelectronic
684724 (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

AC-3B-96 (hex) NXP Semiconductor (Tianjin)
LTD.
AC3B96 (base 16) NXP Semiconductor (Tianjin) LTD.
No.15 Xinghua Avenue, Xiqing Economic Development Area
Tianjin 300385

CN

0C-67-14 (hex) SERNET (SUZHOU) TECHNOLOGIES CORPORATION
0C6714 (base 16) SERNET (SUZHOU) TECHNOLOGIES CORPORATION
NO.8 Tangzhuang Road,Suzhou Industrial Park,Su ZhouCity,JiangSu Province,China
Suzhou 215021
CN

CC-57-63 (hex) Panasonic Automotive Systems Co.,Ltd
CC5763 (base 16) Panasonic Automotive Systems Co.,Ltd
5652
Matsumoto City Nagano 399-8730
JP

90-D0-92 (hex) HUMAX Co., Ltd.
90D092 (base 16) HUMAX Co., Ltd.
HUMAX Village, 216, Hwangsaeul-ro, Bu
Seongnam-si Gyeonggi-do 463-875
KR

84-30-CE (hex) Shenzhen Jaguar Microsystems Co., Ltd
8430CE (base 16) Shenzhen Jaguar Microsystems Co., Ltd
1101 Hanjing Financial Center, 9968 Shennan Blvd, Nanshan, Shenzhen
Shenzhen 518000
CN

64-FB-01 (hex) Zhongshan Camry Electronic Company Limited
64FB01
(base 16) Zhongshan Camry Electronic Company Limited
Baishawan Industrial Park, Qiwan Road, East District, Zhongshan, Guangdong
Zhongshan Guangdong 528403
CN

38-F6-CF (hex) zte corporation
38F6CF (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

C8-A6-08 (hex) Ruckus Wireless
C8A608 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

EC-0C-96 (hex) Nokia
EC0C96 (base 16) Nokia
600 March Road

Kanata Ontario K2K 2E6
CA

A0-77-9E (hex) Chipsea Technologies (Shenzhen) Corp.
A0779E (base 16) Chipsea Technologies (Shenzhen) Corp.
3 / F, Block A, Building 2, Shenzhen Bay Innovation Technology Center, No.3156 keyuan South Road, Yuehai Street, Nanshan District, Shenzhen
Shenzhen Guangdong 518000
CN

90-F8-91 (hex) Kaon Group Co., Ltd.
90F891 (base 16) Kaon Group Co., Ltd.
884-3, Seongnam-daero, Bundang-gu
Seongnam-si
Gyeonggi-do 13517
KR

98-77-E7 (hex) Kaon Group Co., Ltd.
9877E7 (base 16) Kaon Group Co., Ltd.
884-3, Seongnam-daero, Bundang-gu
Seongnam-si Gyeonggi-do 13517
KR

84-01-12 (hex) Kaon Group Co., Ltd.
840112 (base 16) Kaon Group Co., Ltd.
884-3, Seongnam-daero, Bundang-gu
Seongnam-si Gyeonggi-do 13517
KR

18-34-AF (hex) Kaon Group Co., Ltd.
1834AF (base 16) Kaon Group Co., Ltd.
884-3, Seongnam-daero, Bundang-gu
Seongnam-si Gyeonggi-do 13517
KR

B8-1E-A4 (hex) Liteon Technology Corporation
B81EA4 (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

34-D8-56 (hex) Shenzhen Skyworth Digital Technology CO., Ltd
34D856 (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

F8-6F-B0 (hex) TP-LINK TECHNOLOGIES CO.,LTD.

F86FB0 (base 16) TP-LINK
TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

90-F4-21 (hex) IEEE Registration Authority
90F421 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

24-23-61 (hex) vivo Mobile Communication Co., Ltd.
242361 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

84-0F-2A (hex) Jiangxi Risound Electronics Co., LTD
840F2A (base 16) Jiangxi Risound Electronics Co., LTD
No 271,innovation Avenue, Jinggangshan economic and Technological Development Zone
Jian Jiangxi 343100
CN

34-47-D4 (hex) Chengdu Quanjing Intelligent Technology Co.,Ltd
3447D4 (base 16) Chengdu Quanjing Intelligent Technology Co.,Ltd
Building A2, Chi Yuen Technology Park, 1001 College Avenue, Nanshan District, Shenzhen,P.R.C.
Shenzhen Guangdong 518000
CN

D4-27-87
(hex) Shanghai High-Flying Electronics Technology Co., Ltd
D42787 (base 16) Shanghai High-Flying Electronics Technology Co., Ltd
Room 1002,#1Building,No.3000 Longdong Avenue,Pudong
Shanghai Shanghai 201202
CN

34-D4-E3 (hex) Atom Power, Inc.
34D4E3 (base 16) Atom Power, Inc.
13245 Reese Blvd WSuite 130
Huntersville NC 28078
US

0C-87-72 (hex) FUJIAN STAR-NET COMMUNICATION CO.,LTD
0C8772 (base 16) FUJIAN STAR-NET COMMUNICATION CO.,LTD
19-22# Building, Star-net Science Plaza, Juyuanzhou,
FUZHOU FUJIAN 350002
CN

48-5F-08 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
485F08 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

34-F0-43 (hex) Samsung Electronics Co.,Ltd
34F043 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

4C-66-A6
(hex) Samsung Electronics Co.,Ltd
4C66A6 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F8-C4-AE (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
F8C4AE (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

C4-A8-16 (hex) eero inc.
C4A816 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

74-49-D2 (hex) New H3C Technologies Co., Ltd
7449D2 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

DC-D2-6A (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
DCD26A (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

AC-D8-A7 (hex) BELLDESIGN Inc.
ACD8A7 (base 16) BELLDESIGN Inc.
5-6-1, Negishi, Minami-Ku
Saitama-shi Saitama 336-0024

JP

14-18-44
(hex) Xenon Smart Teknoloji Ltd.
141844 (base 16) Xenon Smart Teknoloji Ltd.
Tatlisu Mh. Akdag Cd. No:3-5
Umraniye Istanbul 34774
TR

A0-66-36 (hex) Intracom SA Telecom Solutions
A06636 (base 16) Intracom SA Telecom Solutions
19.7 klm Marcopoulo Ave
PEANIA ATTIKI 19002
GR

58-43-AB (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
5843AB (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

74-54-6B (hex) hangzhou zhiyi communication co., ltd
74546B (base 16) hangzhou zhiyi communication co., ltd
706-707, baiyun building-2,No. 190 tiancheng road
hangzhou zhejiang 310007
CN

D8-D4-5D (hex) Orbic North America
D8D45D (base 16) Orbic North America
555 Wireless Blvd.
Hauppauge NY 11788
US

90-6D-62 (hex) Cambium Networks Limited
906D62 (base 16) Cambium Networks Limited
Unit B2, Linhay Business
Park,
Ashburton Devon TQ13 7UP
GB

30-B2-9F (hex) EVIDENT CORPORATION
30B29F (base 16) EVIDENT CORPORATION
Shinjuku Monolith, 3-1 Nishi-Shinjuku 2-chome
Shinjuku-ku Tokyo 163-0910
JP

24-DC-C3 (hex) Espressif Inc.
24DCC3 (base 16) Espressif Inc.

Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

F8-24-DB (hex) EntryPoint Networks, Inc
F824DB (base 16) EntryPoint Networks, Inc
1949 West Printers Row
Salt Lake City UT 84119
US

B4-4D-43 (hex) IEEE Registration Authority
B44D43 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

78-2A-F8 (hex) IETHCOM INFORMATION TECHNOLOGY CO., LTD.
782AF8 (base 16) IETHCOM INFORMATION TECHNOLOGY CO., LTD.
Room 201, Building 39, Liando U Valley, 328 Heng Yong Road, Jiading District.
Shanghai 201806
CN

DC-8D-91 (hex) Infinix mobility limited
DC8D91 (base 16) Infinix mobility
limited
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
HongKong HongKong 999077
HK

40-9A-30 (hex) TECNO MOBILE LIMITED
409A30 (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

58-56-9F (hex) Cisco Systems, Inc
58569F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A8-2A-D6 (hex) Arthrex Inc.
A82AD6 (base 16) Arthrex Inc.
1370 Creekside Boulevard
Naples FL 34108
US

F4-AA-D0 (hex) OHSUNG
F4AAD0 (base 16) OHSUNG
335-4,SANHODAERO,GUMI,GYEONG BUK,KOREA
GUMI GYEONG BUK 730-030
KR

FC-48-C9 (hex) Yobiiq Intelligence B.V.
FC48C9 (base 16) Yobiiq Intelligence B.V.
Bedrijfsweg 31
Geleen Limburg 6163CZ
NL

08-33-ED (hex) ASKEY COMPUTER CORP
0833ED (base 16) ASKEY COMPUTER
CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585
TW

0C-29-8F (hex) Tesla,Inc.
0C298F (base 16) Tesla,Inc.
3500 Deer Creek Rd.
PALO ALTO CA 94304
US

20-B8-2B (hex) Sagemcom Broadband SAS
20B82B (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

E4-8E-BB (hex) Rockwell Automation
E48EBB (base 16) Rockwell Automation
1 Allen-Bradley Dr.
Mayfield Heights OH 44124-6118
US

50-E5-38 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
50E538 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

48-45-CF (hex) LLC Proizvodstvennaya Kompania TransService
4845CF (base 16) LLC Proizvodstvennaya Kompania TransService
Ulitsa Podolskih Kursantov, build. 3, of. 133
Moscow Moscow 117545

RU

8C-02-CD (hex) FUJIAN STAR-NET COMMUNICATION CO.,LTD
8C02CD
(base 16) FUJIAN STAR-NET COMMUNICATION CO.,LTD
19-22# Building, Star-net Science Plaza, Juyuanzhou,
FUZHOU FUJIAN 350002
CN

54-F8-F0 (hex) Tesla Inc
54F8F0 (base 16) Tesla Inc
1 Tesla Road
Austin TX 78725
US

64-1C-10 (hex) Texas Instruments
641C10 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

24-BF-74 (hex) Hamamatsu Photonics K.K.
24BF74 (base 16) Hamamatsu Photonics K.K.
1126-1, Ichino-cho, Higashi-ku
Hamamatsu-City Shizuoka-ken 435-8558
JP

FC-2C-FD (hex) dormakaba Canada Inc. - Keyscan
FC2CFD (base 16) dormakaba Canada Inc. - Keyscan
901 Burns Street East
Whitby Ontario L1N 0E6
CA

4C-9B-63 (hex) LG Innotek
4C9B63 (base 16) LG Innotek
26, Hanamsandan 5beon-ro
Gwangju Gwangsan-gu 506-731
KR

94-7F-D8 (hex) Shenzhen Skyworth Digital Technology CO., Ltd
947FD8 (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block
A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

20-89-8A (hex) Shenzhen Skyworth Digital Technology CO., Ltd
20898A (base 16) Shenzhen Skyworth Digital Technology CO., Ltd

4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

18-AA-1E (hex) Shenzhen Skyworth Digital Technology CO., Ltd
18AA1E (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

FC-7A-58 (hex) Shenzhen Skyworth Digital Technology CO., Ltd
FC7A58 (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

78-53-0D (hex) Shenzhen Skyworth Digital Technology CO., Ltd
78530D (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

78-5F-36 (hex) Shenzhen Skyworth Digital Technology CO., Ltd
785F36 (base 16) Shenzhen
Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

C0-17-54 (hex) Apple, Inc.
C01754 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C8-F2-25 (hex) EM Microelectronic
C8F225 (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

BC-33-40 (hex) Cisco Meraki
BC3340 (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco 94158
US

00-12-27 (hex) Franklin Electric Co., Inc.

001227 (base 16) Franklin Electric Co., Inc.
9255 Coverdale Road
Fort Wayne IN 46809
US

AC-1A-3D (hex) Dell Inc.
AC1A3D (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

F4-9D-A7 (hex) Private
F49DA7 (base 16) Private

E8-8F-C4 (hex) MOBIWIRE MOBILES(NINGBO) CO.,LTD
E88FC4 (base 16) MOBIWIRE MOBILES(NINGBO) CO.,LTD
Buliding B,Bird Indusrtial Park No.999 Dacheng Road,Fenghua
Zhejiang,China
NingBo ZheJiang 315500
CN

E8-4C-4A (hex) Amazon Technologies Inc.
E84C4A (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

74-8F-4D (hex) duagon Germany GmbH
748F4D (base 16) duagon Germany GmbH
Neuwieder Str. 1 - 7
Nuremberg Bavaria 90411
DE

00-C0-3A (hex) duagon Germany GmbH
00C03A (base 16) duagon Germany GmbH
Neuwieder Str. 1 - 7
Nuremberg Bavaria 90411
DE

2C-64-F6 (hex) Wu Qi Technologies,Inc.
2C64F6 (base 16) Wu Qi Technologies,Inc.
14/F, 107 Middle Road, Xiantao Big Data Valley, Yubei District
Chongqing Chongqing 401120
CN

88-68-4B (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
88684B (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,

DONG GUAN GUANG DONG 523860
CN

64-8F-3E (hex) Cisco Systems, Inc
648F3E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA
94568
US

CC-B6-C8 (hex) Cisco Systems, Inc
CCB6C8 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

6C-D6-E3 (hex) Cisco Systems, Inc
6CD6E3 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

18-FB-7B (hex) Dell Inc.
18FB7B (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

1C-40-24 (hex) Dell Inc.
1C4024 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

14-18-77 (hex) Dell Inc.
141877 (base 16) Dell Inc.
One Dell way
Round Rock 78682
US

E0-DB-55 (hex) Dell Inc.
E0DB55 (base 16) Dell Inc.
One Dell way
Round Rock 78682
US

F0-4D-A2 (hex) Dell Inc.
F04DA2 (base 16) Dell Inc.

One Dell Way, MS RR5-45
Round Rock 78682
US

84-2B-2B (hex) Dell Inc.
842B2B (base 16) Dell Inc.
One Dell Way, MS RR5-45
Round Rock 78682
US

EC-2C-49 (hex) NakaoLab, The
University of Tokyo
EC2C49 (base 16) NakaoLab, The University of Tokyo
Engineering Building 3, Room 445, 7-3-1 Hongo
Tokyo Bunkyoku 113-0033
JP

24-6E-96 (hex) Dell Inc.
246E96 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

34-E6-D7 (hex) Dell Inc.
34E6D7 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

74-E6-E2 (hex) Dell Inc.
74E6E2 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

24-B6-FD (hex) Dell Inc.
24B6FD (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

00-0F-1F (hex) Dell Inc.
000F1F (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

D4-AE-52 (hex) Dell Inc.

D4AE52 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

F8-B1-56 (hex) Dell Inc.
F8B156 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

00-A0-85 (hex) Private
00A085 (base 16) Private

CC-96-E5
(hex) Dell Inc.
CC96E5 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

3C-46-A1 (hex) Ruckus Wireless
3C46A1 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

EC-ED-73 (hex) Motorola Mobility LLC, a Lenovo Company
ECED73 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

00-06-5B (hex) Dell Inc.
00065B (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

B8-AC-6F (hex) Dell Inc.
B8AC6F (base 16) Dell Inc.
One Dell Way, MS RR5-45
Round Rock 78682
US

00-21-9B (hex) Dell Inc.
00219B (base 16) Dell Inc.
One Dell Way, MS RR5-45

Round Rock 78682
US

00-21-70 (hex) Dell Inc.
002170 (base 16) Dell Inc.
One Dell Way, MS RR5-45
Round Rock 78682
US

00-1E-C9 (hex) Dell Inc.
001EC9 (base 16) Dell Inc.
One Dell Way, MS RR5-45
Round Rock
78682
US

D8-D0-90 (hex) Dell Inc.
D8D090 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

1C-72-1D (hex) Dell Inc.
1C721D (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

0C-29-EF (hex) Dell Inc.
0C29EF (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

78-AC-44 (hex) Dell Inc.
78AC44 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

C0-3E-BA (hex) Dell Inc.
C03EBA (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

74-78-27 (hex) Dell Inc.
747827 (base 16) Dell Inc.

One Dell Way
Round Rock TX 78682
US

B0-7B-25 (hex) Dell Inc.
B07B25 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

B8-85-84 (hex) Dell Inc.
B88584 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

E4-B9-7A (hex) Dell Inc.
E4B97A (base 16) Dell Inc.
One Dell Way
Round Rock
TX 78682
US

68-4F-64 (hex) Dell Inc.
684F64 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

14-9E-CF (hex) Dell Inc.
149ECF (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

48-4D-7E (hex) Dell Inc.
484D7E (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

A0-29-19 (hex) Dell Inc.
A02919 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

58-8A-5A (hex) Dell Inc.

588A5A (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

EC-C0-18 (hex) Cisco Systems, Inc
ECC018 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

74-8F-C2 (hex) Cisco Systems, Inc
748FC2 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

64-E0-AB (hex) UNION MAN TECHNOLOGY CO.,LTD
64E0AB (base 16) UNION MAN TECHNOLOGY CO.,LTD
No.5,Huitai Road,Huinan High-Tech Park,Huiao Highway
Huizhou
Guangdong 516025
CN

00-19-F0 (hex) UNION MAN TECHNOLOGY CO.,LTD
0019F0 (base 16) UNION MAN TECHNOLOGY CO.,LTD
18F, HUAYANG TOWER,YANDAYI ROAD
HUIZHOU GUANGDONG 516007
CN

A0-1C-87 (hex) UNION MAN TECHNOLOGY CO.,LTD
A01C87 (base 16) UNION MAN TECHNOLOGY CO.,LTD
No.5,Huitai Road,Huinan High-Tech Park,Huiao Highway
Huizhou Guangdong 516025
CN

40-F4-FD (hex) UNION MAN TECHNOLOGY CO.,LTD
40F4FD (base 16) UNION MAN TECHNOLOGY CO.,LTD
No.5,Huitai Road,Huinan High-Tech Park,Huiao Highway
Huizhou Guangdong 516025
CN

44-A3-C7 (hex) zte corporation
44A3C7 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

AC-3D-94 (hex) Arista Networks
AC3D94 (base 16) Arista Networks
5453 Great America Parkway
Santa Clara CA 95054
US

B0-44-9C (hex) Assa Abloy AB - Yale
B0449C (base 16) Assa Abloy AB - Yale
Nordenskiöldsgatan
8B (5tr)
Malmö 211 19
SE

60-2A-1B (hex) JANCUS
602A1B (base 16) JANCUS
Room 101-3. Technology Start-up Center, 10 Electric-gil, Seongsan-gu, Changwon-si, Gyeongsangnam-do
Changwon-si 51542
KR

68-85-6A (hex) OuterLink Corporation
68856A (base 16) OuterLink Corporation
150 Baker Avenue Extension, Suite 302
Concord MA 01742
US

E4-12-89 (hex) topsystem GmbH
E41289 (base 16) topsystem GmbH
Krefelder Straße 201
Aachen 52070
DE

AC-12-8E (hex) Shanghai Baud Data Communication Co.,Ltd.
AC128E (base 16) Shanghai Baud Data Communication Co.,Ltd.
NO.123 JULI RD
PUDONG ZHANGJIANG HIGH-TECH PARK SHANGHAI 201203
CN

30-E1-F1 (hex) Intelbras
30E1F1 (base 16) Intelbras
BR 101, km 210, S/N°
São José Santa Catarina 88104800
BR

00-1D-9C (hex) Rockwell Automation
001D9C (base 16) Rockwell Automation
1 Allen-Bradley Dr.
Mayfield Heights OH 44124-6118
US

D0-19-D3
(hex) ITEL MOBILE LIMITED
D019D3 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

CC-AC-FE (hex) Telink Semiconductor (Shanghai) Co., Ltd.
CCACFE (base 16) Telink Semiconductor (Shanghai) Co., Ltd.
No. 1500 Zuchongzhi Rd, Building #3
Shanghai 201203
CN

88-6E-DD (hex) Micronet union Technology(Chengdu)Co., Ltd.
886EDD (base 16) Micronet union Technology(Chengdu)Co., Ltd.
No.502, Building 5, No. 528, Yuefei Road, Shibantan Street, Xindu District
Chengdu Sichuan 610000
CN

80-F3-EF (hex) Meta Platforms Technologies, LLC
80F3EF (base 16) Meta Platforms Technologies, LLC
1601 Willow Rd
Menlo Park CA 94025
US

D8-B2-49 (hex) Huawei Device Co., Ltd.
D8B249 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C4-9D-08
(hex) Huawei Device Co., Ltd.
C49D08 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

4C-5E-D3 (hex) Unisyue Technologies Co; LTD.
4C5ED3 (base 16) Unisyue Technologies Co; LTD.
Room 402, No. 2 Building, NO.1 ZhongGuancun East Rd, HaiDian District, Beijing, People’s Republic of China
Beijing 100190
CN

18-84-C1 (hex) Guangzhou Shiyuan Electronic Technology Company Limited
1884C1 (base 16) Guangzhou Shiyuan Electronic Technology Company Limited
No.6, 4th Yunpu Road, Yunpu industry District

Guangzhou Guangdong 510530
CN

D0-16-F0 (hex) IEEE Registration Authority
D016F0 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

F4-00-46 (hex) ON Semiconductor
F40046 (base 16) ON Semiconductor
5005 East McDowell Road
Phoenix 85008
US

80-43-3F (hex) Juniper Networks
80433F (base 16) Juniper Networks
1133
Innovation Way
Sunnyvale CA 94089
US

C4-2F-90 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
C42F90 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.469,Jianghui Road
Hangzhou Zhejiang 310052
CN

54-C4-15 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
54C415 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.469,Jianghui Road
Hangzhou Zhejiang 310052
CN

B4-A3-82 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
B4A382 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

68-6D-BC (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
686DBC (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

D8-24-EC (hex) Plenom A/S
D824EC (base 16) Plenom A/S

Pi 2, Soften
Hinnerup Favrskov 8382
DK

10-12-D0 (hex) zte corporation
1012D0
(base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

50-45-94 (hex) Radisys
504594 (base 16) Radisys
8900 NE Walker Road, Suite 130
Hillsboro OR 97006
US

5C-4D-BF (hex) zte corporation
5C4DBF (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

98-47-44 (hex) Shenzhen Boomtech Industrial Corporation
984744 (base 16) Shenzhen Boomtech Industrial Corporation
2F, Block E, Bao'an Intelligent Valley, Yingtian Road No.4, Xixiang Sub-District Office, Bao'an District
Shenzhen 518100
CN

48-38-B6 (hex) Auhui Taoyun Technology Co., Ltd
4838B6 (base 16) Auhui Taoyun Technology Co., Ltd
6/F and 23/F, Scientific Research Building, Building 2, Zone A, China Sound Valley, No. 3333, Xiyou Road, High tech Zone
Hefei Anhui 230094
CN

AC-89-D2 (hex) Ciena Corporation
AC89D2
(base 16) Ciena Corporation
7035 Ridge Road
Hanover MD 21076
US

E0-56-94 (hex) Yunhight Microelectronics
E05694 (base 16) Yunhight Microelectronics
No. 801-31, Data Center, No. 9, Shaping Road, Guoxing Avenue, Lingang Economic Development District
Yibin Sichuan 644000
CN

BC-C4-27 (hex) HUAWEI TECHNOLOGIES CO.,LTD
BCC427 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B0-CF-CB (hex) Amazon Technologies Inc.
B0CFCB (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

A4-D5-C2 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
A4D5C2 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

00-30-52 (hex) DZS Inc.
003052 (base 16) DZS Inc.
6120 WINDWARD PARKWAY -STE#100
ALPHARETTA GA 30005
US

A0-FF-0C (hex) Hangzhou Hikvision
Digital Technology Co.,Ltd.
A0FF0C (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

08-54-11 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
085411 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

74-3F-C2 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
743FC2 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

00-03-56 (hex) Diebold Nixdorf
000356 (base 16) Diebold Nixdorf
Wohlrabedamm 31
Berlin 13629

DE

00-15-6D (hex) Ubiquiti Inc
00156D (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

00-27-22 (hex) Ubiquiti Inc
002722 (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

DC-9F-DB (hex) Ubiquiti Inc
DC9FDB
(base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

18-E8-29 (hex) Ubiquiti Inc
18E829 (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

74-AC-B9 (hex) Ubiquiti Inc
74ACB9 (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

F4-92-BF (hex) Ubiquiti Inc
F492BF (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

68-D7-9A (hex) Ubiquiti Inc
68D79A (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

08-A1-89 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
08A189 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road

Hangzhou Zhejiang 310052
CN

44-A6-42 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
44A642 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555
Qianmo Road
Hangzhou Zhejiang 310052
CN

24-27-30 (hex) GD Midea Air-Conditioning Equipment Co.,Ltd.
242730 (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
Midea Global Innovation Center,Beijiao Town,Shunde
Foshan Guangdong 528311
CN

54-11-59 (hex) Nettrix Information Industry co.LTD
541159 (base 16) Nettrix Information Industry co.LTD
Building 27, yard 8, Dongbei Wangxi Road, Haidian District, Beijing
Beijing Beijing 100193
CN

E8-A2-45 (hex) Juniper Networks
E8A245 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

84-03-28 (hex) Juniper Networks
840328 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

F4-BF-A8 (hex) Juniper Networks
F4BFA8 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

C8-FE-6A (hex) Juniper Networks
C8FE6A (base 16) Juniper Networks
1133 Innovation
Way
Sunnyvale CA 94089
US

FC-96-43 (hex) Juniper Networks

FC9643 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

08-05-E2 (hex) Juniper Networks
0805E2 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

00-14-F6 (hex) Juniper Networks
0014F6 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

2C-6B-F5 (hex) Juniper Networks
2C6BF5 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

B0-C6-9A (hex) Juniper Networks
B0C69A (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

EC-13-DB (hex) Juniper Networks
EC13DB (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

F4-CC-55 (hex) Juniper Networks
F4CC55 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

88-E6-4B (hex) Juniper Networks
88E64B
(base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

D0-DD-49 (hex) Juniper Networks
D0DD49 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

1C-9C-8C (hex) Juniper Networks
1C9C8C (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

9C-8A-CB (hex) Juniper Networks
9C8ACB (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

10-39-E9 (hex) Juniper Networks
1039E9 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

88-E0-F3 (hex) Juniper Networks
88E0F3 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

F8-C0-01 (hex) Juniper Networks
F8C001 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

A8-D0-E5 (hex) Juniper Networks
A8D0E5 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

54-E0-32
(hex) Juniper Networks
54E032 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

3C-8A-B0 (hex) Juniper Networks
3C8AB0 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

80-71-1F (hex) Juniper Networks
80711F (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

3C-61-04 (hex) Juniper Networks
3C6104 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

F4-B5-2F (hex) Juniper Networks
F4B52F (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

28-A2-4B (hex) Juniper Networks
28A24B (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

00-1D-B5 (hex) Juniper Networks
001DB5 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

0C-95-05 (hex) The Chamberlain Group, Inc
0C9505 (base 16) The Chamberlain
Group, Inc
300 Windsor Drive
Oak Brook IL 60523
US

08-E6-C9 (hex) Business-intelligence of Oriental Nations Corporation Ltd.
08E6C9 (base 16) Business-intelligence of Oriental Nations Corporation Ltd.
101, Floor 7, Building 1, Yard 1, Chuangda Third Road, Chaoyang District, Beijing
Beijing 100102

CN

7C-27-3C (hex) Shenzhen Yunlink Technology Co., Ltd
7C273C (base 16) Shenzhen Yunlink Technology Co., Ltd
Gushu, Xixiang Town, Bao'an District,
Shenzhen City Guangdong Province 518100
CN

1C-2A-B0 (hex) Beijing Xiaomi Electronics Co.,Ltd
1C2AB0 (base 16) Beijing Xiaomi Electronics Co.,Ltd
Xiaomi Campus
Beijing Beijing 100085
CN

98-17-F1 (hex) zte corporation
9817F1 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

98-C8-54 (hex) Chiun Mai Communication System, Inc
98C854 (base 16) Chiun Mai Communication System, Inc
No.4,
MingSheng St. TuCheng District
New Taipei City 23679
TW

70-17-D7 (hex) Shanghai Enflame Technology Co., Ltd.
7017D7 (base 16) Shanghai Enflame Technology Co., Ltd.
A-522, No. 188, Yesheng Road, LIN-GANG Special Area, China (Shanghai) Pilot Free Trade Zone
Shanghai Shanghai 201306
CN

A0-8E-24 (hex) eero inc.
A08E24 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

64-B7-08 (hex) Espressif Inc.
64B708 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

B8-6A-F1 (hex) Sagemcom Broadband SAS
B86AF1 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur

Rueil Malmaison Cedex hauts de seine 92848
FR

CC-58-30 (hex) Sagemcom Broadband SAS
CC5830 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

A4-51-5E (hex) Juniper Networks
A4515E
(base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

88-28-FB (hex) Juniper Networks
8828FB (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

E8-24-A6 (hex) Juniper Networks
E824A6 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

B4-98-82 (hex) Brusa HyPower AG
B49882 (base 16) Brusa HyPower AG
Langäulistrasse 60
Buchs 9470
CH

4C-C8-44 (hex) Maipu Communication Technology Co.,Ltd.
4CC844 (base 16) Maipu Communication Technology Co.,Ltd.
No.16 Jiuxing Avenue, Hi-tech zone
Chengdu Sichuan 610094
CN

00-2B-F5 (hex) BUFFALO.INC
002BF5 (base 16) BUFFALO.INC
AKAMONDORI Bld.,30-20,Ohsu 3-chome,Naka-ku
Nagoya Aichi Pref. 460-8315
JP

5C-16-48 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
5C1648 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD

NO.18 HAIBIN ROAD,
DONG GUAN
GUANG DONG 523860
CN

68-F3-8E (hex) Juniper Networks
68F38E (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

EC-94-D5 (hex) Juniper Networks
EC94D5 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

A4-E1-1A (hex) Juniper Networks
A4E11A (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

24-FC-4E (hex) Juniper Networks
24FC4E (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

DC-C2-C9 (hex) CANON INC.
DCC2C9 (base 16) CANON INC.
30-2 Shimomaruko 3-chome,
Ohta-ku Tokyo 146-8501
JP

08-28-02 (hex) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
082802 (base 16) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
Unit East Block22-24/F,Skyworth semiconductor design Bldg., Gaoxin Ave.4.S.,Nanshan District,Shenzhen,China
SHENZHEN GUANGDONG 518057
CN

CC-42-10 (hex) Xiaomi Communications
Co Ltd
CC4210 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

84-46-93 (hex) Beijing Xiaomi Mobile Software Co., Ltd
844693 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

5C-75-45 (hex) Wayties, Inc.
5C7545 (base 16) Wayties, Inc.
#206, 42 Changyeop-ro Sujeong-gu
Seongnam-si Gyenggi-do 13449
KR

38-0F-AD (hex) HUAWEI TECHNOLOGIES CO.,LTD
380FAD (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D8-53-BC (hex) Lenovo Information Products (Shenzhen)Co.,Ltd
D853BC (base 16) Lenovo Information Products (Shenzhen)Co.,Ltd
2F, NO.1 Plant , Lenovo Innovation Park, Lidu Road, Loucun Community, Xinhu Street, Guangming District , Shenzhen, Guangdong, China
Shenzhen
Guangdong 518000
CN

B4-E5-4C (hex) LLC Elektra
B4E54C (base 16) LLC Elektra
Russian Federation, Moscow, Goncharnaya st, house ? 30, building 1, office ?511
Moscow 115172
RU

80-AC-C8 (hex) Phyplus Microelectronics Limited
80ACC8 (base 16) Phyplus Microelectronics Limited
304 Building 1 No.608 Sheng Xia Road
Shanghai 200000
CN

A4-16-C0 (hex) Apple, Inc.
A416C0 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

DC-45-B8 (hex) Apple, Inc.
DC45B8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

90-EC-EA (hex) Apple, Inc.
90ECEA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

10-B5-88 (hex) Apple, Inc.
10B588 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-D3-1F (hex) Apple, Inc.
F0D31F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B4-AE-C1 (hex) Apple,
Inc.
B4AEC1 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

54-32-C7 (hex) Apple, Inc.
5432C7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

58-E4-88 (hex) Amazon Technologies Inc.
58E488 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

20-21-41 (hex) Universal Electronics BV
202141 (base 16) Universal Electronics BV
Colosseum 2
Enschede Ov 7521 PT
NL

44-DF-65 (hex) Beijing Xiaomi Mobile Software Co., Ltd
44DF65 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District

Beijing Beijing 100085
CN

D8-03-1A (hex) Laird Connectivity
D8031A (base 16) Laird Connectivity
3F.-1, No.145, Xianzheng 9th Rd.,
Zhubei 30251
TW

24-78-23 (hex) Panasonic Entertainment & Communication Co., Ltd.
247823 (base 16) Panasonic Entertainment & Communication
Co., Ltd.
3-1-1 Yagumo-naka-machi
Moriguchi Osaka 570-8501
JP

48-29-D6 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
4829D6 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

FC-6A-1C (hex) Mellanox Technologies, Inc.
FC6A1C (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway, Suite 100
Sunnyvale CA 94085
US

A0-88-C2 (hex) Mellanox Technologies, Inc.
A088C2 (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway, Suite 100
Sunnyvale CA 94085
US

28-D0-CB (hex) Adtran Inc
28D0CB (base 16) Adtran Inc
Victory House, Vision Park, Chivers Way, Histon
Cambridge CB24 9ZR
GB

AC-51-EE (hex) Adtran Inc
AC51EE (base 16) Adtran Inc
Sheraton House
Cambridge Cambridgeshire CB3 0AX
GB

C4-FC-22 (hex) YEALINK(XIAMEN) NETWORK TECHNOLOGY CO.,LTD.
C4FC22 (base 16) YEALINK(XIAMEN) NETWORK

TECHNOLOGY CO.,LTD.
309, 3th Floor, No.16, Yun Ding North Road, Huli District
xiamen Fujian 361015
CN

A0-60-32 (hex) Amcrest Technologies
A06032 (base 16) Amcrest Technologies
16727 Park Row
Houston TX 77084
US

BC-AD-90 (hex) Kymeta Purchasing
BCAD90 (base 16) Kymeta Purchasing
12034 134th Ct NE #105
Redmond WA 98052
US

3C-99-8C (hex) Houwa System Design Corp.
3C998C (base 16) Houwa System Design Corp.
4F Matubara Building 3-22-14 Shibuyaku Higashi
Tokyo 150-0011
JP

A8-80-55 (hex) Tuya Smart Inc.
A88055 (base 16) Tuya Smart Inc.
160 Greentree Drive, Suite 101
Dover DE 19904
US

50-8B-B9 (hex) Tuya Smart Inc.
508BB9 (base 16) Tuya Smart Inc.
160 Greentree Drive, Suite 101
Dover DE 19904
US

6C-AC-C2 (hex) Samsung Electronics Co.,Ltd
6CACC2 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

BC-F7-30 (hex) Samsung
Electronics Co.,Ltd
BCF730 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

98-F9-CC (hex) Zhejiang Dahua Technology Co., Ltd.
98F9CC (base 16) Zhejiang Dahua Technology Co., Ltd.
No.1199,Waterfront Road
Hangzhou Zhejiang 310053
CN

38-68-A4 (hex) Samsung Electronics Co.,Ltd
3868A4 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

AC-1E-92 (hex) Samsung Electronics Co.,Ltd
AC1E92 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon 16677
KR

B8-37-B2 (hex) Aruba, a Hewlett Packard Enterprise Company
B837B2 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

44-EE-14 (hex) Texas Instruments
44EE14 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

B4-AC-9D (hex) Texas Instruments
B4AC9D
(base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

D4-3F-32 (hex) eero inc.
D43F32 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

F8-34-51 (hex) Comcast-SRL
F83451 (base 16) Comcast-SRL
Alejo Martinez 17
Sosua Puerto Plata 34443
DO

68-63-72 (hex) Huawei Device Co., Ltd.
686372 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

A0-C2-0D (hex) Huawei Device Co., Ltd.
A0C20D (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

4C-88-9E (hex) Huawei Device Co., Ltd.
4C889E (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

3C-31-74 (hex) Google, Inc.
3C3174 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

BC-93-07 (hex) Samsung
Electronics Co.,Ltd
BC9307 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

DC-FB-B8 (hex) Meizhou Guo Wei Electronics Co., Ltd
DCFBB8 (base 16) Meizhou Guo Wei Electronics Co., Ltd
AD1 Section, The Economy Development Area, Dongsheng Industrial District,
Meizhou Guangdong Province 514000
CN

50-3C-CA (hex) TECNO MOBILE LIMITED
503CCA (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

9C-0C-35 (hex) Shenzhenshi Xinzhongxin Technology Co.Ltd
9C0C35 (base 16) Shenzhenshi Xinzhongxin Technology Co.Ltd
Block 3, Dong Huan Industrial Park, Sha Jing Town, Bao’an District, Shenzhen City, Guangdong Province, China

ShenZHEN GuangDong 518104
CN

78-D6-D6 (hex) eero inc.
78D6D6 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

6C-23-16
(hex) TATUNG Technology Inc.,
6C2316 (base 16) TATUNG Technology Inc.,
Room 1000,10F., No.288, Sec. 6, Civic Blvd.,Xinyi Dist.,
Taipei City TAIWAN 11087
TW

C8-ED-FC (hex) Shenzhen Ideaform Industrial Product Design Co., Ltd
C8EDFC (base 16) Shenzhen Ideaform Industrial Product Design Co., Ltd
Room 206, Building A2, Hangcheng Park, Xixiang Street, Bao'an District
Shenzhen Guangdong 518100
CN

F8-22-29 (hex) Nokia Shanghai Bell Co., Ltd.
F82229 (base 16) Nokia Shanghai Bell Co., Ltd.
No.388 Ning Qiao Road,Jin Qiao Pudong Shanghai
Shanghai 201206
CN

E4-62-C4 (hex) Cisco Systems, Inc
E462C4 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

20-DE-1E (hex) Nokia
20DE1E (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

60-77-71 (hex) Texas Instruments
607771 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

AC-B1-81

(hex) Belden Mooresville
ACB181 (base 16) Belden Mooresville
1113 N Main St.
Mooresville 28115
US

AC-E4-03 (hex) Shenzhen Visteng Technology CO.,LTD
ACE403 (base 16) Shenzhen Visteng Technology CO.,LTD
6F, M7, MaQueLing, Hi-tech Park, Nanshan District
Shenzhen 518000
CN

C4-DB-04 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C4DB04 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

94-7D-77 (hex) HUAWEI TECHNOLOGIES CO.,LTD
947D77 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

94-09-C9 (hex) ALPSALPINE CO,.LTD
9409C9 (base 16) ALPSALPINE CO,.LTD
nishida 6-1
kakuda-City Miyagi-Pref 981-1595
JP

60-D0-39 (hex) Apple, Inc.
60D039 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C4-C1-7D (hex) Apple,
Inc.
C4C17D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

44-3D-54 (hex) Amazon Technologies Inc.
443D54 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

54-47-CC (hex) Sagemcom Broadband SAS
5447CC (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

E0-BD-A0 (hex) Apple, Inc.
E0BDA0 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

58-73-D8 (hex) Apple, Inc.
5873D8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F4-E8-C7 (hex) Apple, Inc.
F4E8C7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

14-85-09 (hex) Apple, Inc.
148509 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A0-A7-63 (hex) Polytron Vertrieb GmbH
A0A763 (base 16) Polytron Vertrieb GmbH
Langwiesenweg 64-71
Bad Wildbad Baden-Württemberg
75323
DE

A4-3F-51 (hex) Shenzhen Benew Technology Co.,Ltd.
A43F51 (base 16) Shenzhen Benew Technology Co.,Ltd.
No.2001, Building 2, Sunmax Technology Park, Kehua Road No.8, Nanshan District
Shenzhen 518057
CN

A4-18-94 (hex) Bosch Security Systems B.V.
A41894 (base 16) Bosch Security Systems B.V.
Torenalle 49
Eindhoven 5617 BA

NL

8C-CD-FE (hex) AMPAK Technology,Inc.
8CCDFE (base 16) AMPAK Technology,Inc.
3F, No.15-1 Zhonghua Road, Hsinchu Industrail Park, Hukou,
Hsinchu Hsinchu,Taiwan R.O.C. 30352
TW

48-5D-35 (hex) AVM Audiovisuelles Marketing und Computersysteme GmbH
485D35 (base 16) AVM Audiovisuelles Marketing und Computersysteme GmbH
Alt-Moabit 95
Berlin Berlin 10559
DE

98-AC-EF (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
98ACEF (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District,
Chongqing.
Chongqing China 401120
CN

24-D7-9C (hex) Cisco Systems, Inc
24D79C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1B-8F (hex) Cisco Systems, Inc
001B8F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

D0-4F-58 (hex) Ruckus Wireless
D04F58 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

24-72-4A (hex) Nile Global Inc
24724A (base 16) Nile Global Inc
10915 Miramonte Rd
Cupertino 95014
US

00-84-1E (hex) Cisco Meraki
00841E (base 16) Cisco Meraki
500 Terry A. Francois Blvd

San Francisco 94158
US

F8-5B-9B (hex) iMercury
F85B9B (base 16) iMercury
2-14
Kanda Tsukasamachi, Chiyoda-ku Tokyo 101-0048
JP

50-0B-26 (hex) HUAWEI TECHNOLOGIES CO.,LTD
500B26 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan
523808
CN

50-41-72 (hex) HUAWEI TECHNOLOGIES CO.,LTD
504172 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-09-41 (hex) Allied Telesis K.K.
000941 (base 16) Allied Telesis K.K.
Technical Center/No.2 TOC Bldg.
Shinagawa-ku 141-0031
US

80-FB-F0 (hex) Quectel Wireless Solutions Co.,Ltd.
80FBF0 (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

90-BD-E6 (hex) Quectel Wireless Solutions Co.,Ltd.
90BDE6 (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

54-65-03 (hex) Quectel Wireless Solutions Co.,Ltd.
546503 (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

90-A6-BF

(hex) Quectel Wireless Solutions Co.,Ltd.
90A6BF (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

3C-58-5D (hex) Sagemcom Broadband SAS
3C585D (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

38-95-92 (hex) Tendyron Corporation
389592 (base 16) Tendyron Corporation
1810,Tower B,Jin-ma,Building,17 East Qing Hua Road
Beijing 100083
CN

3C-FA-06 (hex) Microsoft Corporation
3CFA06 (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

E8-47-3A (hex) Hon Hai Precision Industry Co.,LTD
E8473A (base 16) Hon Hai Precision Industry Co.,LTD
66.Chung Shan RD, TU-CHENG Industrial , district new TAIPEI CITY,23678 , TAIWAN CHINA
TAIPEI 66.Chung Shan RD, TU-CHENG Industrial , district new TAIPEI 33859
CN

D8-0E-29 (hex) vivo
Mobile Communication Co., Ltd.
D80E29 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

58-E4-03 (hex) Wistron Neweb Corporation
58E403 (base 16) Wistron Neweb Corporation
No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu R.O.C. 308
TW

98-CC-D9 (hex) Shenzhen SuperElectron Technology Co.,Ltd.
98CCD9 (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen Guangdong 518000
CN

64-D3-15 (hex) HMD Global Oy
64D315 (base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo 02600
FI

60-6D-9D (hex) Otto Bock Healthcare Products GmbH
606D9D (base 16) Otto Bock Healthcare Products GmbH
Brehmstraße 16
Wien Wien 1110
AT

D4-92-5E (hex) Technicolor Delivery Technologies Belgium NV
D4925E (base 16) Technicolor Delivery Technologies
Belgium NV
Prins Boudewijnlaan 47
Edegem - Belgium B-2650
BE

10-BF-67 (hex) Amazon Technologies Inc.
10BF67 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

FC-D5-D9 (hex) Shenzhen SDMC Technology CO.,Ltd.
FCD5D9 (base 16) Shenzhen SDMC Technology CO.,Ltd.
7/F,Block A,Huahan Bldg.,
Shenzhen GuangDong 518000
CN

4C-82-A9 (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
4C82A9 (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

0C-AF-31 (hex) Cisco Systems, Inc
0CAF31 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

64-7C-34 (hex) Ubee Interactive Co., Limited
647C34 (base 16) Ubee Interactive Co., Limited
Flat/RM 1202, 12/F, AT Tower
North Point Hong Kong 180

HK

6C-38-A1 (hex) Ubee Interactive
Co., Limited
6C38A1 (base 16) Ubee Interactive Co., Limited
Flat/RM 1202, 12/F, AT Tower
North Point Hong Kong 180
HK

F0-C7-45 (hex) TECNO MOBILE LIMITED
F0C745 (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

B4-6D-C2 (hex) SHENZHEN BILIAN ELECTRONIC CO.LTD
B46DC2 (base 16) SHENZHEN BILIAN ELECTRONIC CO.LTD
NO.268? Fuqian Rd, Jutang community, Guanlan Town, Longhua New district
shenzhen guangdong 518000
CN

AC-CF-7B (hex) INGRAM MICRO SERVICES
ACCF7B (base 16) INGRAM MICRO SERVICES
100 CHEMIN DE BAILLOT
MONTAUBAN 82000
FR

AC-3E-B1 (hex) Google, Inc.
AC3EB1 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

CC-B7-C4 (hex) HUAWEI TECHNOLOGIES CO.,LTD
CCB7C4 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin
Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

50-14-C1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
5014C1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

44-32-62 (hex) zte corporation

443262 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

F0-F6-9C (hex) NIO Co., Ltd.
F0F69C (base 16) NIO Co., Ltd.
Building 9, 889 Tianlin Road, Minhang District
Shanghai Shanghai 201804
CN

60-A2-C6 (hex) HUAWEI TECHNOLOGIES CO.,LTD
60A2C6 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A4-E8-A3 (hex) Fujian Newland Auto-ID Tech Co.,Ltd.
A4E8A3 (base 16) Fujian Newland Auto-ID Tech Co.,Ltd.
Newland Science&Technology Park,No.1,Rujiang West Rd,Mawei,Fuzhou,P.R.China
Fuzhou Fujian
350015
CN

18-FA-B7 (hex) Apple, Inc.
18FAB7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

70-22-FE (hex) Apple, Inc.
7022FE (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B0-6B-B3 (hex) GRT
B06BB3 (base 16) GRT
Unit 01, 10/F Carnival Comm BLDG 18 Java RD,North Point, Hong Kong
Hong Kong 100036
HK

88-1E-5A (hex) Apple, Inc.
881E5A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-C5-85 (hex) Apple, Inc.
00C585 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A8-7C-F8 (hex) Apple, Inc.
A87CF8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C8-E3-06 (hex) eero inc.
C8E306 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

B8-16-5F (hex) LG Innotek
B8165F (base 16) LG Innotek
26, Hanamsandan 5beon-ro
Gwangju Gwangsan-gu 506-731
KR

84-E6-57
(hex) Sony Interactive Entertainment Inc.
84E657 (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

D4-F0-C9 (hex) KYOCERA Document Solutions Inc.
D4F0C9 (base 16) KYOCERA Document Solutions Inc.
2-28 1-Chome, Tamatsukuri, Chuo-ku
osaka Japan 540-8585
JP

64-E8-33 (hex) Espressif Inc.
64E833 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

24-B7-DA (hex) Fiberhome Telecommunication Technologies Co.,LTD
24B7DA (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

08-46-C7 (hex) Fiberhome Telecommunication Technologies Co.,LTD
0846C7 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

C8-96-5A (hex) SKY UK LIMITED
C8965A (base 16) SKY UK LIMITED
Grant Way
Isleworth
Middlesex TW7 5QD
GB

C8-DE-41 (hex) SKY UK LIMITED
C8DE41 (base 16) SKY UK LIMITED
Grant Way
Isleworth Middlesex TW7 5QD
GB

38-CA-84 (hex) HP Inc.
38CA84 (base 16) HP Inc.
10300 Energy Drive
Spring TX 77389
US

B8-AB-62 (hex) Hui Zhou Gaoshengda Technology Co.,LTD
B8AB62 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.2,Jin-da Road,Huinan Industrial Park
Hui Zhou Guangdong 516025
CN

1C-63-49 (hex) Texas Instruments
1C6349 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

E4-52-1E (hex) Texas Instruments
E4521E (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

18-2C-65 (hex) Texas Instruments
182C65 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243

US

FC-22-F4 (hex) Zyxel Communications Corporation
FC22F4 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu
Taiwan 300
TW

84-DB-A4 (hex) Huawei Device Co., Ltd.
84DBA4 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

24-5C-C5 (hex) Huawei Device Co., Ltd.
245CC5 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

78-D8-40 (hex) Xiaomi Communications Co Ltd
78D840 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

F4-63-FC (hex) vivo Mobile Communication Co., Ltd.
F463FC (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

60-56-7D (hex) AM Telecom co., Ltd.
60567D (base 16) AM Telecom co., Ltd.
#608,YatapLeaders B/D, Jangmi-ro 42, Bundang-gu
Seongnam-si Gyeonggi-do 463-828
KR

EC-74-27 (hex) eero inc.
EC7427 (base 16) eero inc.
660 3rd
Street
San Francisco CA 94107
US

68-E1-DC (hex) BUFFALO.INC
68E1DC (base 16) BUFFALO.INC

AKAMONDORI Bld.,30-20,Ohsu 3-chome,Naka-ku
Nagoya Aichi Pref. 460-8315
JP

B8-3D-FB (hex) Bouffalo Lab (Nanjing) Co., Ltd.
B83DFB (base 16) Bouffalo Lab (Nanjing) Co., Ltd.
5F, Gongxiang Space, No.100 Tuanjie Road, Nanjing, China
Nanjing Jiangsu 211800
CN

54-64-DE (hex) u-blox AG
5464DE (base 16) u-blox AG
Zuercherstrasse 68
Thalwil 8800
CH

38-BC-61 (hex) Starkoff Co., Ltd.
38BC61 (base 16) Starkoff Co., Ltd.
SeoulForest L-Tower #1405, Achasanro 17, Seongdonggu
Seoul Seoul 04789
KR

20-5E-97 (hex) Nokia
205E97 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

04-86-80 (hex) Quectel Wireless Solutions Co.,Ltd.
048680 (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

10-A8-29
(hex) Cisco Systems, Inc
10A829 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E4-60-17 (hex) Intel Corporate
E46017 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

30-F6-EF (hex) Intel Corporate

30F6EF (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

58-6D-67 (hex) Intel Corporate
586D67 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

F0-ED-B8 (hex) SERVERCOM (INDIA) PRIVATE LIMITED
F0EDB8 (base 16) SERVERCOM (INDIA) PRIVATE LIMITED
E-43/1 OKHLA INDUSTRIAL AREA PHASE-II NEW DELHI SOUTH DELHI
NEW DELHI NA
IN

F8-79-99 (hex) Guangdong Jiuzhi Technology Co.,Ltd
F87999 (base 16) Guangdong Jiuzhi Technology Co.,Ltd
Room 3A02, Yihe center, Shiqi District, Zhongshan City, Guangdong Province, China
Zhongshan City Guangdong Province 523000
CN

CC-2A-AC
(hex) Yunjing lntelligent Technology(Dongguan).,Ltd
CC2AAC (base 16) Yunjing lntelligent Technology(Dongguan).,Ltd
Building 7, 4 Xingye Road, Songshan Lake Park, Dongguan city, Guangdong Province
Dongguan 523000
CN

20-40-6A (hex) AMPAK Technology,Inc.
20406A (base 16) AMPAK Technology,Inc.
3F, No.15-1 Zhonghua Road, Hsinchu Industrail Park, Hukou,
Hsinchu Hsinchu,Taiwan R.O.C. 30352
TW

68-D4-0C (hex) TELLESCOM INDUSTRIA E COMERCIO EM TELECOMUNICACAO
68D40C (base 16) TELLESCOM INDUSTRIA E COMERCIO EM TELECOMUNICACAO
Av. Buriti, 1900 – Setor B – Distrito Industrial
Manaus Amazonas 69075-000
BR

24-E3-DE (hex) China Telecom Fufu Information Technology Co., Ltd.
24E3DE (base 16) China Telecom Fufu Information Technology Co., Ltd.
22 Shuitou Road, Doumen
Fuzhou Fujian 350013
CN

18-16-E8 (hex) Siliconware Precision Industries Co., Ltd.
1816E8 (base 16) Siliconware Precision Industries Co.,
Ltd.
No. 123, Sec.3, Da Fong Rd, Tantzu,
Taichung 427
TW

CC-79-D7 (hex) Cisco Systems, Inc
CC79D7 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E4-38-7E (hex) Cisco Systems, Inc
E4387E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

90-AC-3F (hex) BrightSign LLC
90AC3F (base 16) BrightSign LLC
16795 Lark Ave.
Los Gatos CA 95032
US

CC-E6-86 (hex) Samsung Electronics Co.,Ltd
CCE686 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

74-19-0A (hex) Samsung Electronics Co.,Ltd
74190A (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C0-C4-F9 (hex) Qisda Corporation
C0C4F9 (base 16) Qisda Corporation
No. 157, Shanying Rd., Gueishan Dist., Taoyuan City 33341, Taiwan
Taoyuan 33341
TW

80-82-F5 (hex) STMicrolectronics International
NV
8082F5 (base 16) STMicrolectronics International NV
39, Chemin du Champ-des-Filles
Geneva, Plan-les-Quates 1228

CH

5C-AC-3D (hex) Samsung Electronics Co.,Ltd
5CAC3D (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F4-F1-9E (hex) Wistron InforComm (Zhongshan) Corporation
F4F19E (base 16) Wistron InforComm (Zhongshan) Corporation
No.38, East Keji Road, Zhongshan Torch Development Zone
Zhongshan Guangdong 528437
CN

10-4C-43 (hex) Fiberhome Telecommunication Technologies Co.,LTD
104C43 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

84-FB-43 (hex) Central Denshi Seigyo
84FB43 (base 16) Central Denshi Seigyo
#913 9th Kanagawa Science Park R&D Business Park building B, 3-2-1 Sakado, Takatsu-ku,
Kawasaki City Kanagawa Prefecture 213-0012
JP

68-6C-E6 (hex) Microsoft Corporation
686CE6
(base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

00-31-26 (hex) Nokia
003126 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

10-98-26 (hex) Nokia
109826 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

C8-70-D4 (hex) IBO Technology Co,Ltd
C870D4 (base 16) IBO Technology Co,Ltd
4F,Block.C,Unis Inforport,Langshan Rd 13,Hi-Tech Industrial Park(North)Nanshan

ShenZhen GuangDong 518000
CN

58-47-CA (hex) IEEE Registration Authority
5847CA (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

64-7C-E8 (hex) Palo Alto Networks
647CE8 (base 16) Palo Alto Networks
3000 Tannery Way
Santa Clara CA 95054
US

28-2B-B9 (hex) Shenzhen Xiongxin Technology Co.,Ltd
282BB9 (base 16) Shenzhen Xiongxin Technology Co.,Ltd
Room 05, 15th Floor, Yihua Financial Technology Building, 3939 Baishi Road, Binhai Community, Yuehai Street, Nanshan District, Shenzhen China
Shenzhen Guangdong 518000
CN

30-1A-BA (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
301ABA (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

7C-E8-7F (hex) Sagemcom Broadband SAS
7CE87F (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

68-87-1C (hex) Motorola Mobility LLC, a Lenovo Company
68871C (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

F8-A4-75 (hex) PT Indoreka Jaya Wutama
F8A475 (base 16) PT Indoreka Jaya Wutama
Tokopedia Tower Ciputra World 2, Jl. Prof. Dr. Satrio No 3, Desa/Kelurahan Karet Semanggi, Kec. Setiabudi, Kota Adm. Jakarta Selatan, Provinsi DKI Jakarta
Jakarta Selatan DKI Jakarta 12950
ID

A4-79-52 (hex) Huawei Device Co., Ltd.

A47952
(base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

B8-7C-D0 (hex) Huawei Device Co., Ltd.
B87CD0 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

D0-7E-01 (hex) Huawei Device Co., Ltd.
D07E01 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

F8-79-07 (hex) Huawei Device Co., Ltd.
F87907 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

00-A0-93 (hex) B/E AEROSPACE, Inc.
00A093 (base 16) B/E AEROSPACE, Inc.
17481 RED HILL
IRVINE CA 92714-5630
US

2C-76-00 (hex) Apple, Inc.
2C7600 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

68-F5-43 (hex) HUAWEI TECHNOLOGIES CO.,LTD
68F543 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2
Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F8-7D-76 (hex) Apple, Inc.
F87D76 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

34-DF-20 (hex) Shenzhen Comstar .Technology Co.,Ltd
34DF20 (base 16) Shenzhen Comstar .Technology Co.,Ltd
4th Floor,Block B,Building 6,Evergrande Fashion Valley, Dalang Street, Longhua District,Shenzhen
Shenzhen Guangdong 518109
CN

F4-1A-B0 (hex) Shenzhen Xingguodu Technology Co., Ltd.
F41AB0 (base 16) Shenzhen Xingguodu Technology Co., Ltd.
18th Floor, Block B, Building 10, Shenzhen Bay Science and Technology Ecological Park, Nanshan District, Shenzhen
Shenzhen Guangdong 518000
CN

70-42-D3 (hex) Ruijie Networks Co.,LTD
7042D3 (base 16) Ruijie Networks Co.,LTD
No. 2, 7th floor, xingwangruijie, haixi hi-tech industrial park, high-tech zone, fuzhou city
Fuzhou Fujian 350002
CN

44-8E-EC (hex) China Mobile Group Device
Co.,Ltd.
448EEC (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

F0-26-F8 (hex) Worldcns Co.,Ltd.
F026F8 (base 16) Worldcns Co.,Ltd.
B-1813 67, Saebitgongwon-ro, Gwangmyeong-si, Gyeonggi-do, Republic of Korea
Gwangmyeong 14348
KR

14-07-08 (hex) CP PLUS GMBH & CO. KG
140708 (base 16) CP PLUS GMBH & CO. KG
Hans Henny Jahnn Weg 9
Hamburg D22085
DE

18-C3-F4 (hex) IEEE Registration Authority
18C3F4 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

14-D4-24 (hex) AzureWave Technology Inc.
14D424 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.

New Taipei City Taiwan 231
TW

68-27-5F (hex) zte corporation
68275F (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

44-41-F0 (hex) zte corporation
4441F0
(base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

88-9C-AD (hex) Cisco Systems, Inc
889CAD (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

D8-83-32 (hex) TaiXin Semiconductor Co., Ltd
D88332 (base 16) TaiXin Semiconductor Co., Ltd
3 Floor Building No 2, Guangwan Bay No.1 Tangjia Town, Zhuhai City
Zhuhai Guangdong 519000
CN

F8-5B-6E (hex) Samsung Electronics Co.,Ltd
F85B6E (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

8C-6A-3B (hex) Samsung Electronics Co.,Ltd
8C6A3B (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

24-11-53 (hex) Samsung Electronics Co.,Ltd
241153 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

44-12-44 (hex) Aruba, a Hewlett Packard Enterprise Company
441244

(base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

14-49-D4 (hex) Xiaomi Communications Co Ltd
1449D4 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

B0-1F-47 (hex) Heights Telecom T ltd
B01F47 (base 16) Heights Telecom T ltd
Moshe Lerer 15
Nes Ziona 7404996
IL

28-29-47 (hex) Chipsea Technologies (Shenzhen) Corp.
282947 (base 16) Chipsea Technologies (Shenzhen) Corp.
3 / F, Block A, Building 2, Shenzhen Bay Innovation Technology Center, No.3156 keyuan South Road, Yuehai Street, Nanshan District, Shenzhen
Shenzhen Guangdong 518000
CN

AC-BC-B5 (hex) Apple, Inc.
ACBCB5 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E0-F3-18 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
E0F318 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First
Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

C4-64-F2 (hex) Infinix mobility limited
C464F2 (base 16) Infinix mobility limited
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
HongKong HongKong 999077
HK

04-18-92 (hex) HUAWEI TECHNOLOGIES CO.,LTD
041892 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808

CN

14-65-6A (hex) HUAWEI TECHNOLOGIES CO.,LTD
14656A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

6C-B7-E2 (hex) HUAWEI TECHNOLOGIES CO.,LTD
6CB7E2 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C4-75-EA (hex) HUAWEI TECHNOLOGIES CO.,LTD
C475EA (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2
Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

90-25-F2 (hex) HUAWEI TECHNOLOGIES CO.,LTD
9025F2 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

AC-B6-87 (hex) Arcadyan Corporation
ACB687 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

50-63-91 (hex) HUAWEI TECHNOLOGIES CO.,LTD
506391 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E8-A3-4E (hex) HUAWEI TECHNOLOGIES CO.,LTD
E8A34E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

38-7C-76 (hex) Universal Global Scientific Industrial Co., Ltd.
387C76 (base 16) Universal Global Scientific Industrial Co., Ltd.
141, Lane 351, Taiping Road, Sec.1,Tsao Tuen

Nan-Tou
Taiwan 54261
TW

E4-A6-34 (hex) Universal Electronics, Inc.
E4A634 (base 16) Universal Electronics, Inc.
201 E. Sandpointe Ave
Santa Ana CA 92707
US

2C-8D-37 (hex) Virtium
2C8D37 (base 16) Virtium
30052 Tomas
Racho Santa MArgarita CA 92688
US

40-FD-F3 (hex) AMPAK Technology,Inc.
40FDF3 (base 16) AMPAK Technology,Inc.
3F, No.15-1 Zhonghua Road, Hsinchu Industrail Park, Hukou,
Hsinchu Hsinchu,Taiwan R.O.C. 30352
TW

94-6D-AE (hex) Mellanox Technologies, Inc.
946DAE (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway, Suite 100
Sunnyvale CA 94085
US

08-25-73 (hex) Apple, Inc.
082573 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

AC-00-7A (hex) Apple, Inc.
AC007A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-1F-C7 (hex) Apple, Inc.
F01FC7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino
CA 95014
US

88-20-0D (hex) Apple, Inc.

88200D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

BC-15-41 (hex) Nokia
BC1541 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

EC-E6-1D (hex) Huawei Device Co., Ltd.
ECE61D (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

4C-63-AD (hex) Huawei Device Co., Ltd.
4C63AD (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

DC-DB-27 (hex) Huawei Device Co., Ltd.
DCDB27 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

B8-8F-27 (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
B88F27 (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China
401120
CN

DC-05-39 (hex) Cisco Systems, Inc
DC0539 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

48-27-E2 (hex) Espressif Inc.
4827E2 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

40-E1-71 (hex) Jiangsu Huitong Group Co.,Ltd.
40E171 (base 16) Jiangsu Huitong Group Co.,Ltd.
No. 24, Block 2, Taohuawu New District
Zhenjiang Jiangsu 212003
CN

18-C3-00 (hex) Nokia
18C300 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

D4-4D-77 (hex) Nokia
D44D77 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

6C-72-4A (hex) Onkyo Technology K.K.
6C724A (base 16) Onkyo Technology K.K.
Lux Building (5th floor),1-1-41 Kawamata
Higashiosaka City Osaka 577-0063
JP

D8-FF-C3 (hex) Shenzhen 3SNIC information technology company Limited
D8FFC3 (base 16) Shenzhen 3SNIC
information technology company Limited
Room 3101, Building 3, Nanshan Zhiyuan Chongwen Park, No.3370, Liuxian Avenue, Fuguang Community, Taoyuan Street, Nanshan District,
Shenzhen Guangdong 518000
CN

E8-EF-05 (hex) MIND TECH INTERNATIONAL LIMITED
E8EF05 (base 16) MIND TECH INTERNATIONAL LIMITED
FLAT E 2/F RIALTO MANSION 183 KING'S RD NORTH POINT HK
Hong Kong 999077
HK

8C-25-5E (hex) VoltServer
8C255E (base 16) VoltServer
42 Ladd St STE 227
East Greenwich RI 02818
US

58-B3-8F (hex) New H3C Technologies Co., Ltd
58B38F (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052

CN

F4-6D-3F (hex) Intel Corporate
F46D3F (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

F0-87-56 (hex) Zyxel Communications Corporation
F08756 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu
Taiwan 300
TW

1C-F8-D0 (hex) Samsung Electronics Co.,Ltd
1CF8D0 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

38-86-F7 (hex) Google, Inc.
3886F7 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

F4-22-7A (hex) Guangdong Seneasy Intelligent Technology Co., Ltd.
F4227A (base 16) Guangdong Seneasy Intelligent Technology Co., Ltd.
No. 63, Huitai Industrial Park,
Huizhou City, Guangdong Province 516000
CN

64-0E-6A (hex) SECO-LARM USA Inc
640E6A (base 16) SECO-LARM USA Inc
16842 Millikan
Irvine CA 92606
US

8C-51-09 (hex) IEEE Registration Authority
8C5109 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

68-E1-54 (hex) SiMa.ai
68E154 (base 16) SiMa.ai
226 Airport Parkway, Suite 550

San Jose CA 95110
US

6C-60-D0 (hex) Huawei Device Co., Ltd.
6C60D0 (base
16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

54-3D-92 (hex) WIRELESS-TEK TECHNOLOGY LIMITED
543D92 (base 16) WIRELESS-TEK TECHNOLOGY LIMITED
Room 402 4F, BiaoFan Technology Building, Bao'An Avenue, FuYong Town, Bao'An district, ShenZhen,China
SHENZHEN 518000
CN

68-D9-27 (hex) HUAWEI TECHNOLOGIES CO.,LTD
68D927 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

90-F9-70 (hex) HUAWEI TECHNOLOGIES CO.,LTD
90F970 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

04-CA-ED (hex) HUAWEI TECHNOLOGIES CO.,LTD
04CAED (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

68-EE-88 (hex) Shenzhen TINNO Mobile Technology Corp.
68EE88 (base
16) Shenzhen TINNO Mobile Technology Corp.
Building, No.33, Xiandong Rd, Xili
Nanshan District, Shenzhen PRC 518053
CN

2C-3B-70 (hex) AzureWave Technology Inc.
2C3B70 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

DC-8D-B7 (hex) ATW TECHNOLOGY, INC.

DC8DB7 (base 16) ATW TECHNOLOGY, INC.
1F, No.236 Ba’ai Street, Shulin District
New Taipei City 23845
TW

E8-AC-23 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E8AC23 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

98-26-AD (hex) Quectel Wireless Solutions Co.,Ltd.
9826AD (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

A4-75-B9 (hex) Samsung Electronics Co.,Ltd
A475B9 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk
730-350
KR

80-54-9C (hex) Samsung Electronics Co.,Ltd
80549C (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F8-5E-0B (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
F85E0B (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

94-D3-31 (hex) Xiaomi Communications Co Ltd
94D331 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

D4-43-0E (hex) Zhejiang Dahua Technology Co., Ltd.
D4430E (base 16) Zhejiang Dahua Technology Co., Ltd.
No.1199,Waterfront Road
Hangzhou Zhejiang 310053
CN

B8-F0-B9 (hex) zte corporation
B8F0B9 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

4C-9D-22 (hex) ACES
Co.,Ltd
4C9D22 (base 16) ACES Co.,Ltd
TianGong Avenue #916, Tianfu New Area
ChengDu Sichuan Province 610000
CN

88-C9-E8 (hex) Sony Corporation
88C9E8 (base 16) Sony Corporation
Sony City Osaki 2-10-1
Shinagawa-ku Tokyo 141-8610
JP

60-1E-98 (hex) Axevast Technology
601E98 (base 16) Axevast Technology
5F., No. 20, Guanqian Road, Zhongzheng District
Taipei City 100007
TW

A8-F7-D9 (hex) Mist Systems, Inc.
A8F7D9 (base 16) Mist Systems, Inc.
1601 South De Anza Blvd, Suite 248
Cupertino CA 95014
US

44-88-16 (hex) Cisco Systems, Inc
448816 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

5C-8C-30 (hex) Taicang T&W Electronics
5C8C30 (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

34-DD-04 (hex) Minut AB
34DD04 (base 16) Minut AB
Baltzarsgatan 23
Malmö 21136
SE

2C-9D-65 (hex) vivo
Mobile Communication Co., Ltd.
2C9D65 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

80-5B-65 (hex) LG Innotek
805B65 (base 16) LG Innotek
26, Hanamsandan 5beon-ro
Gwangju Gwangsan-gu 506-731
KR

D8-88-63 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D88863 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C0-3E-50 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C03E50 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

80-60-36 (hex) HUAWEI TECHNOLOGIES CO.,LTD
806036 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F8-E4-A4 (hex) Fiberhome Telecommunication Technologies Co.,LTD
F8E4A4 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5
DongXin Road
Wuhan Hubei 430074
CN

B0-38-E2 (hex) Wanan Hongsheng Electronic Co.Ltd
B038E2 (base 16) Wanan Hongsheng Electronic Co.Ltd
1st section of industrial pack,Wan'An County,Ji'An City,jiangxi province
Wanan China/jiangxi 343800
CN

4C-53-69 (hex) YanFeng Visteon(ChongQing) Automotive Electronic Co.,Ltd
4C5369 (base 16) YanFeng Visteon(ChongQing) Automotive Electronic Co.,Ltd
No.8,Gang’an 2nd Road,Jiangbei District,Chongqing,P.R.China

ChongQing ChongQing 400025
CN

A0-C9-8B (hex) Nokia Solutions and Networks GmbH & Co. KG
A0C98B (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541
DE

18-BB-1C (hex) Huawei Device Co., Ltd.
18BB1C (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

70-A9-83 (hex) Cisco Systems, Inc
70A983 (base 16) Cisco Systems, Inc
80 West Tasman
Drive
San Jose CA 94568
US

BC-FA-EB (hex) Cisco Systems, Inc
BCFAEB (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

84-85-53 (hex) Biznes Systema Telecom, LLC
848553 (base 16) Biznes Systema Telecom, LLC
room XXII/1, fl 3, block 3, 6 Barklaya street, Moscow, 121087, Russia
Moscow 121087
RU

B4-7D-76 (hex) KNS Group LLC
B47D76 (base 16) KNS Group LLC
Room 4, Office IV, Floor 4 Rochdelskaya street, 15, b.15 Moscow, 123376 Russia
Moscow 123376
RU

C0-AD-97 (hex) TECNO MOBILE LIMITED
C0AD97 (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

58-00-32 (hex) Genexis B.V.

580032 (base 16) Genexis B.V.
Lodewijkstraat 1A
Eindhoven 5652AC
NL

BC-C7-DA (hex) Earda Technologies co Ltd
BCC7DA (base 16) Earda Technologies
co Ltd
Block A,Lianfeng Creative Park, #2 Jisheng Rd., Nansha District
Guangzhou Guangdong 511455
CN

18-66-F0 (hex) Jupiter Systems
1866F0 (base 16) Jupiter Systems
31015 Huntwood Ave
Hayward CA 94544-7007
US

74-60-4C (hex) RODE
74604C (base 16) RODE
107 Carnarvon St
Silverwater NSW 2128
AU

40-B0-2F (hex) Miele & Cie. KG
40B02F (base 16) Miele & Cie. KG
Carl-Miele-Straße 29
Gütersloh 33332
DE

E0-48-D8 (hex) Guangzhi Wulian Technology(Guangzhou) Co., Ltd
E048D8 (base 16) Guangzhi Wulian Technology(Guangzhou) Co., Ltd
Room 1407, Fuli yingkai building, No. 16, Huaxia Road, Tianhe District,
Guangzhou 510623
CN

1C-59-74 (hex) IEEE Registration Authority
1C5974 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

1C-0D-7D (hex) Apple, Inc.
1C0D7D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

14-F2-87
(hex) Apple, Inc.
14F287 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

58-55-95 (hex) Apple, Inc.
585595 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

28-6F-40 (hex) Tonly Technology Co. Ltd
286F40 (base 16) Tonly Technology Co. Ltd
Section 37, Zhongkai Hi-Tech Development Zone
Huizhou Guangdong 516006
CN

0C-86-C7 (hex) Jabil Circuit (Guangzhou) Limited
0C86C7 (base 16) Jabil Circuit (Guangzhou) Limited
Huangpu 128, JunCheng Road
GuangZhou Guangdong 510530
CN

74-76-7D (hex) shenzhen kexint technology co.,ltd
74767D (base 16) shenzhen kexint technology co.,ltd
5th Floor, Building 2, Chunhu Industrial Park, Dongshen Road, Pinghu Street, Longgang District, Shenzhen City
shenzhen guangdong 518000
CN

14-94-6C (hex) Apple, Inc.
14946C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

24-CF-24 (hex) Beijing Xiaomi
Mobile Software Co., Ltd
24CF24 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

F0-6C-5D (hex) Xiaomi Communications Co Ltd
F06C5D (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085

CN

60-7D-09 (hex) Luxshare Precision Industry Co., Ltd
607D09 (base 16) Luxshare Precision Industry Co., Ltd
2nd floor,A building,Sanyo New Industrial Area,West Area of Maoyi, Shajing Street,Bao'an District
Shenzhen City Guangdong Province 518100
CN

EC-62-60 (hex) Espressif Inc.
EC6260 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

B0-6E-72 (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
B06E72 (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178
Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

CC-3E-79 (hex) ARRIS Group, Inc.
CC3E79 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

28-F5-D1 (hex) ARRIS Group, Inc.
28F5D1 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

10-E1-77 (hex) ARRIS Group, Inc.
10E177 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

08-EB-F6 (hex) HUAWEI TECHNOLOGIES CO.,LTD
08EBF6 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

0C-7B-C8 (hex) Cisco Meraki
0C7BC8 (base 16) Cisco Meraki
500 Terry A. Francois Blvd

San Francisco 94158
US

C8-F0-9E (hex) Espressif Inc.
C8F09E (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

DC-54-75 (hex) Espressif
Inc.
DC5475 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

00-14-01 (hex) Rivertree Networks Corp.
001401 (base 16) Rivertree Networks Corp.
R#304, K-Center, 1591-9
Anyang-si Kyunggi-do 431-815
KR

00-60-68 (hex) Dialogic Corporation
006068 (base 16) Dialogic Corporation
9800 Cavendish Blvd, 5th Floor
Montreal Quebec H4M 2V9
CA

90-D4-73 (hex) vivo Mobile Communication Co., Ltd.
90D473 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

28-82-7C (hex) Bosch Automative products(Suzhou)Co.,Ltd Changzhou Branch
28827C (base 16) Bosch Automative products(Suzhou)Co.,Ltd Changzhou Branch
No.17 Longmen Road
Changzhou JiangSu 213164
CN

18-3C-98 (hex) Shenzhen Hengyi Technology Co., LTD
183C98 (base 16) Shenzhen Hengyi Technology Co., LTD
Floor 5, Zone 1, Block B, Mingyou
Purchasing Center, Baoyuan Road, Xixiang Street
Shenzhen Guangdong 518102
CN

D8-10-68 (hex) Murata Manufacturing Co., Ltd.

D81068 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

5C-04-5A (hex) Company NA Stage & Light
5C045A (base 16) Company NA Stage & Light
Lambertu 9
M?rupe LV-2167
LV

58-C3-56 (hex) EM Microelectronic
58C356 (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

F4-E2-04 (hex) COYOTE SYSTEM
F4E204 (base 16) COYOTE SYSTEM
1, rue Royale
Saint-Cloud 92210
FR

F8-4E-58 (hex) Samsung Electronics Co.,Ltd
F84E58 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

A0-ED-FB (hex) Quectel Wireless Solutions Co.,Ltd.
A0EDFB (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui
District
Shanghai 200233
CN

B0-23-47 (hex) Shenzhen Giant Microelectronics Company Limited
B02347 (base 16) Shenzhen Giant Microelectronics Company Limited
Room 2108, 21 Floor, Building No.1 of Chang Fu Jin Mao Tower, No.5 Shi Hua Road, Futian District
Shenzhen Guangdong 518000
CN

5C-A4-F4 (hex) zte corporation
5CA4F4 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

D4-E0-53 (hex) Aruba, a Hewlett Packard Enterprise Company
D4E053 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

24-6C-60 (hex) Huawei Device Co., Ltd.
246C60 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

64-C5-82 (hex) China Mobile Group Device Co.,Ltd.
64C582 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing
100053
CN

88-FC-5D (hex) Cisco Systems, Inc
88FC5D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

F4-C8-8A (hex) Intel Corporate
F4C88A (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

B4-70-64 (hex) Samsung Electronics Co.,Ltd
B47064 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

4C-2E-5E (hex) Samsung Electronics Co.,Ltd
4C2E5E (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

64-5D-F4 (hex) Samsung Electronics Co.,Ltd
645DF4 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-16-A3 (hex) INGETEAM
0016A3 (base 16) INGETEAM
Parque Tecnologico de Bizkaia, Edificio 110
Zamudio Bizkaia 48170
ES

30-3E-A7 (hex) Intel Corporate
303EA7 (base 16) Intel Corporate
Lot 8, Jalan
Hi-Tech 2/3
Kulim Kedah 09000
MY

CC-DD-58 (hex) Robert Bosch GmbH
CCDD58 (base 16) Robert Bosch GmbH
Mittlerer Pfad 9
Stuttgart 70499
DE

78-71-04 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
787104 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

50-28-4A (hex) Intel Corporate
50284A (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

DC-A9-56 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
DCA956 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

88-3F-0C (hex) system a.v. co., ltd.
883F0C (base 16) system a.v. co., ltd.
5-16-1,Aoe,KIta-Ku
Okayama Okayama 700-0941
JP

CC-82-7F (hex) Advantech Technology (CHINA) Co., Ltd.
CC827F (base 16) Advantech Technology (CHINA)
Co., Ltd.
No.666, Han-Pu Rd. Yu-Shan

Kun-Shan Jiang Su 215316
CN

78-AF-08 (hex) Intel Corporate
78AF08 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

5C-C5-63 (hex) HUNAN FN-LINK TECHNOLOGY LIMITED
5CC563 (base 16) HUNAN FN-LINK TECHNOLOGY LIMITED
No.8, Litong Road, Liuyan Economic & Tec
Changsha HUNAN 410329
CN

EC-60-73 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
EC6073 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

68-B6-91 (hex) Amazon Technologies Inc.
68B691 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

48-27-C5 (hex) HUAWEI TECHNOLOGIES CO.,LTD
4827C5 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

BC-D2-06 (hex) HUAWEI
TECHNOLOGIES CO.,LTD
BCD206 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A8-B1-3B (hex) HP Inc.
A8B13B (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

C4-38-75 (hex) Sonos, Inc.
C43875 (base 16) Sonos, Inc.

614 Chapala St
Santa Barbara 93101
US

14-75-5B (hex) Intel Corporate
14755B (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

74-DD-CB (hex) China Leadshine Technology Co.,Ltd
74DDCB (base 16) China Leadshine Technology Co.,Ltd
9-11, Building A3, Nanshan Ipark, No.1001 Xueyuan Avenue, Nanshan?
SHENZHEN 518000
CN

10-4D-15 (hex) Viaanix Inc
104D15 (base 16) Viaanix Inc
434 N Main St.
Wichita KS 67202
US

50-A0-15 (hex) Shenzhen Yipingfang Network Technology Co., Ltd.
50A015 (base 16) Shenzhen Yipingfang Network Technology Co., Ltd.
21 / F,
Kangjia R & D building, No.28, Keji South 12th Road, Nanshan District, Shenzhen City, Guangdong Province, China
Shenzhen Nanshan District 518000
CN

AC-33-0B (hex) Japan Computer Vision Corp.
AC330B (base 16) Japan Computer Vision Corp.
6F.Hanzoumon PREX South 2-5-1 Kojimachi.
Chiyoda-ku TOKYO Tokyo 1020083
JP

30-53-C1 (hex) CRESYN
3053C1 (base 16) CRESYN
8-22,Jamwon-dong
Seoul Seocho-Gu #137-902
KR

BC-61-93 (hex) Xiaomi Communications Co Ltd
BC6193 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

3C-5D-29 (hex) Zhejiang Tmall Technology Co., Ltd.
3C5D29 (base 16) Zhejiang Tmall Technology Co., Ltd.
No.969 Wenyi West Road, Wuchang Street, Yuhang District
Hangzhou Zhejiang 310024
CN

68-FC-CA (hex) Samsung Electronics Co.,Ltd
68FCCA (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon
Gyeonggi-Do 16677
KR

6C-D7-19 (hex) Fiberhome Telecommunication Technologies Co.,LTD
6CD719 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

80-01-5C (hex) Synaptics, Inc
80015C (base 16) Synaptics, Inc
1251 McKay Dr.
San Jose CA CA 95131
US

F8-E5-7E (hex) Cisco Systems, Inc
F8E57E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

34-62-B4 (hex) Renesas Electronics (Penang) Sdn. Bhd.
3462B4 (base 16) Renesas Electronics (Penang) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

B0-AF-F7 (hex) Shenzhen Yipingfang Network Technology Co., Ltd.
B0AFF7 (base 16) Shenzhen Yipingfang Network Technology Co., Ltd.
21 / F, Kangjia R & D building, No.28, Keji South 12th Road, Nanshan District, Shenzhen City, Guangdong Province, China
Shenzhen Nanshan District 518000
CN

CC-EB-18 (hex) OOO
TSS
CCEB18 (base 16) OOO TSS
ul. Borisovskaya, 1

Moscow Moscow 105187
RU

38-5B-44 (hex) Silicon Laboratories
385B44 (base 16) Silicon Laboratories
400 West Cesar Chavez Street
Austin TX 78701
US

94-34-69 (hex) Silicon Laboratories
943469 (base 16) Silicon Laboratories
400 West Cesar Chavez Street
Austin TX 78701
US

C8-54-A4 (hex) Infinix mobility limited
C854A4 (base 16) Infinix mobility limited
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
HongKong HongKong 999077
HK

A0-09-2E (hex) zte corporation
A0092E (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

70-85-C4 (hex) Ruijie Networks Co.,LTD
7085C4 (base 16) Ruijie Networks Co.,LTD
No. 2, 7th floor, xingwangruijie, haixi hi-tech industrial park, high-tech zone, fuzhou city
Fuzhou Fujian 350002
CN

88-6F-29
(hex) Pocketbook International SA
886F29 (base 16) Pocketbook International SA
Crocicchio Cortogna 6
Lugano Ticino 6900
CH

BC-22-47 (hex) New H3C Technologies Co., Ltd
BC2247 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

7C-DA-C3 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD

7CDAC3 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

E0-BB-0C (hex) Synertau LLC
E0BB0C (base 16) Synertau LLC
st. 40 let Komsomola, 32G
Yekaterinburg 620092
RU

00-10-E6 (hex) APPLIED INTELLIGENT SYSTEMS, INC.
0010E6 (base 16) APPLIED INTELLIGENT SYSTEMS, INC.
3923 RANCHERO DRIVE
ANN ARBOR MI 48108
US

00-08-13 (hex) Diskbank, Inc.
000813 (base 16) Diskbank, Inc.
3F Focus Building, 725-25
Seoul 135-080
KR

AC-77-B9
(hex) Nanjing Yufei Intelligent Control Technology Co.,LTD
AC77B9 (base 16) Nanjing Yufei Intelligent Control Technology Co.,LTD
Floor 3, Building 3, No.6 xuzhuang Road, Xuanwu District, Nanjing
nanjing 210000
CN

8C-17-B6 (hex) Huawei Device Co., Ltd.
8C17B6 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

B8-2B-68 (hex) Huawei Device Co., Ltd.
B82B68 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

2C-F2-95 (hex) Huawei Device Co., Ltd.
2CF295 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

70-04-1D (hex) Espressif Inc.
70041D (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

88-50-46 (hex) LEAR
885046 (base 16) LEAR
Industriestraße
48
Kronach Bayern 96317
DE

A8-5B-B7 (hex) Apple, Inc.
A85BB7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

74-EF-4B (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
74EF4B (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

44-8C-00 (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
448C00 (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

18-C2-93 (hex) Laird Connectivity
18C293 (base 16) Laird Connectivity
3F.-1, No.145, Xianzheng 9th Rd.,
Zhubei 30251
TW

00-0A-C2 (hex) Wuhan FiberHome Digital Technology Co.,Ltd.
000AC2 (base 16) Wuhan FiberHome Digital Technology Co.,Ltd.
No.88 YouKeyuan Road,Hongshan District,W
Wuhan Hubei 430074
CN

70-4C-B6 (hex) Shenzhen SuperElectron
Technology Co.,Ltd.
704CB6 (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen Guangdong 518000

CN

54-9B-49 (hex) NEC Platforms, Ltd.
549B49 (base 16) NEC Platforms, Ltd.
2-3 Kandatsukasamachi
Chiyodaku Tokyo 101-8532
JP

88-25-10 (hex) Aruba, a Hewlett Packard Enterprise Company
882510 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

8C-47-7F (hex) NambooSolution
8C477F (base 16) NambooSolution
613 Room, 171, Magokjungang-ro, Gangseo-gu, Seoul, Republic of Korea
Seoul 07788
KR

48-2E-72 (hex) Cisco Systems, Inc
482E72 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

30-CB-C7 (hex) Cambium Networks Limited
30CBC7 (base 16) Cambium Networks Limited
Unit B2, Linhay Business Park,
Ashburton
Devon TQ13 7UP
GB

24-4C-AB (hex) Espressif Inc.
244CAB (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

78-48-2C (hex) START USA, INC.
78482C (base 16) START USA, INC.
6860 Dallas Pkwy, Ste 200
Plano TX 75024
US

7C-45-D0 (hex) Shenzhen Wewins Wireless Co., ltd
7C45D0 (base 16) Shenzhen Wewins Wireless Co., ltd
17F., Mid Wing, Yuehai Building, Nanhai Road, Nanshan

Shenzhen Guangdong 518057
CN

08-26-AE (hex) IEEE Registration Authority
0826AE (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

74-46-87 (hex) Kingsignal Technology Co., Ltd.
744687 (base 16) Kingsignal Technology Co., Ltd.
Floor 26,Unit B,Block 10,No.1819 Shahexi Road,Shenzhen Bay Eco-Technology Park,Nanshan District
Shenzhen Guangdong 518000
CN

D0-E8-28 (hex) Radiant Industries Incorporated
D0E828 (base 16) Radiant
Industries Incorporated
113 Sierra Street
El Segundo CA 90245
US

10-76-36 (hex) Earda Technologies co Ltd
107636 (base 16) Earda Technologies co Ltd
Block A,Lianfeng Creative Park, #2 Jisheng Rd., Nansha District
Guangzhou Guangdong 511455
CN

E0-41-02 (hex) zte corporation
E04102 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

D8-40-08 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D84008 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

6C-04-7A (hex) HUAWEI TECHNOLOGIES CO.,LTD
6C047A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

6C-55-8D (hex) HUAWEI TECHNOLOGIES CO.,LTD
6C558D (base 16) HUAWEI TECHNOLOGIES CO.,LTD

No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan
523808
CN

E0-FF-F1 (hex) Texas Instruments
E0FFF1 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

A4-2A-95 (hex) D-Link International
A42A95 (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

50-E7-B7 (hex) vivo Mobile Communication Co., Ltd.
50E7B7 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

F4-F7-0C (hex) Avang - neterbit
F4F70C (base 16) Avang - neterbit
No 56, 16th St., Ghanbarzadeh St., Beheshti Ave
Tehran Tehran 1533963361
IR

F4-44-2C (hex) Shenzhen SuperElectron Technology Co.,Ltd.
F4442C (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen Guangdong 518000
CN

7C-77-16 (hex) Zyxel Communications Corporation
7C7716
(base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

94-3F-BB (hex) JSC RPC Istok named after Shokin
943FBB (base 16) JSC RPC Istok named after Shokin
Room 65, Floor 2, Building 1, 2A, Vokzalnaya Street
Fryazino Moscow Region 141190
RU

98-B7-85 (hex) Shenzhen 10Gtek Transceivers Co., Limited
98B785 (base 16) Shenzhen 10Gtek Transceivers Co., Limited
Blg 3, COFCO, Liuxian 2nd Road,
Shenzhen Guangdong 518000
CN

48-5A-EA (hex) Fiberhome Telecommunication Technologies Co.,LTD
485AEA (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

84-81-02 (hex) Fiberhome Telecommunication Technologies Co.,LTD
848102 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

54-E0-05 (hex) Fiberhome Telecommunication Technologies Co.,LTD
54E005 (base 16) Fiberhome
Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

04-FF-08 (hex) Huawei Device Co., Ltd.
04FF08 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

20-AF-1B (hex) SteelSeries ApS
20AF1B (base 16) SteelSeries ApS
656 West Randolph, Suite 2E
Chicago IL 60661
US

F0-BE-25 (hex) Dongguan Cannice Precision Manufacturing Co., Ltd.
F0BE25 (base 16) Dongguan Cannice Precision Manufacturing Co., Ltd.
No. 21, Nange West Road, Daojiao Town
Dongguan Guangdong 523170
CN

14-9B-D7 (hex) MULI MUWAI FURNITURE QIDONG CO., LTD
149BD7 (base 16) MULI MUWAI FURNITURE QIDONG CO., LTD
No. 55, Huanghai Road, Qidong High-tech Industrial Development Zone
Qidong Jiangsu 226255
CN

10-B1-DF (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
10B1DF (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22
Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

F4-F6-47 (hex) zte corporation
F4F647 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

E8-81-75 (hex) zte corporation
E88175 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

9C-0B-05 (hex) eero inc.
9C0B05 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

40-F6-BC (hex) Amazon Technologies Inc.
40F6BC (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

DC-97-58 (hex) Sichuan AI-Link Technology Co., Ltd.
DC9758 (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou, Industrial Park
Mianyang Sichuan 622650
CN

00-09-31 (hex) Future Internet, Inc.
000931 (base 16) Future Internet, Inc.
11'th
Floor Samhomoolsan Bldg, B/Bldg, 2
Seoul Kyung-Ki 137-130
KP

EC-DA-59 (hex) New H3C Technologies Co., Ltd
ECDA59 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District

Hangzhou Zhejiang 310052
CN

78-F2-38 (hex) Samsung Electronics Co.,Ltd
78F238 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

64-D0-D6 (hex) Samsung Electronics Co.,Ltd
64D0D6 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

EC-65-6E (hex) The Things Industries B.V.
EC656E (base 16) The Things Industries B.V.
Singel 542
Amsterdam Noord-Holland 1017 AZ
NL

5C-49-FA (hex) Shenzhen Guowei Shidai Communication Equipement Co., Ltd
5C49FA (base 16) Shenzhen Guowei Shidai Communication Equipement Co., Ltd
2202, Yili science & Technology Park Workshop, No.596-
2, Dahe Village, Guancheng Community, Guanhu Street, Longhua District,
S
SHENZHEN 518000
CN

78-EB-46 (hex) HUAWEI TECHNOLOGIES CO.,LTD
78EB46 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C4-16-C8 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C416C8 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E4-DC-CC (hex) HUAWEI TECHNOLOGIES CO.,LTD
E4DCCC (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

3C-A1-61 (hex) HUAWEI TECHNOLOGIES CO.,LTD

3CA161 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A0-83-B4 (hex) HeNet B.V.
A083B4 (base 16) HeNet B.V.
Kalkhofseweg 20
Haps 5443NA
NL

3C-8B-7F (hex) Cisco Systems, Inc
3C8B7F (base 16) Cisco Systems, Inc
80 West Tasman
Drive
San Jose CA 94568
US

6C-E5-C9 (hex) Apple, Inc.
6CE5C9 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

74-B7-E6 (hex) Zegna-Daidong Limited
74B7E6 (base 16) Zegna-Daidong Limited
Rooms 14-17, 18/F, Nan Fung Commercial, Centre 19 Lam Lok Street, Kowloon Bay
Hong Kong 999077
HK

00-A4-5F (hex) Huawei Device Co., Ltd.
00A45F (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

FC-E2-6C (hex) Apple, Inc.
FCE26C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

4C-79-75 (hex) Apple, Inc.
4C7975 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

1C-71-25 (hex) Apple, Inc.
1C7125 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

34-FE-77 (hex) Apple, Inc.
34FE77 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C0-F8-7F
(hex) Cisco Systems, Inc
C0F87F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

5C-8E-8B (hex) Shenzhen Linghai Electronics Co.,Ltd
5C8E8B (base 16) Shenzhen Linghai Electronics Co.,Ltd
310, Building D, Shenzhen Zhihui Innovation Center, Hangcheng Industrial Zone, Taoyuan Community, Xixiang Street, Bao'an District
Shenzhen Guangdong Province 518000
CN

58-7D-B6 (hex) Northern Data AG
587DB6 (base 16) Northern Data AG
An der Welle 3
Frankfurt am Main Hessen 60322
DE

90-75-BC (hex) Nokia Shanghai Bell Co., Ltd.
9075BC (base 16) Nokia Shanghai Bell Co., Ltd.
No.388 Ning Qiao Road,Jin Qiao Pudong Shanghai
Shanghai 201206
CN

4C-53-FD (hex) Amazon Technologies Inc.
4C53FD (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

9C-05-67 (hex) Honor Device Co., Ltd.
9C0567 (base 16) Honor Device Co., Ltd.
A1701, Block AB, Building

1, Tianan Yungu Phase I, Gangtou Community, Bantian Street
Shenzhen Guangdong 518129
CN

14-66-B7 (hex) Advanced Design Technology Pty Ltd
1466B7 (base 16) Advanced Design Technology Pty Ltd
GPO Box 2808
Canberra City ACT 2601
AU

94-94-4A (hex) Particle Industries Inc.
94944A (base 16) Particle Industries Inc.
548 Market St PMB 34833
San Francisco CA 94104
US

2C-A3-27 (hex) Oraimo Technology Limited
2CA327 (base 16) Oraimo Technology Limited
RMS 05-15?13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
HONG KONG HONG KONG 999077
HK

10-AE-A5 (hex) Duskrise inc.
10AEA5 (base 16) Duskrise inc.
Empire State Building 350 Fifth Avenue 41st Floor
new york NY 10118
US

B0-8B-92 (hex) zte corporation
B08B92 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

08-C8-C2 (hex) GN Audio
A/S
08C8C2 (base 16) GN Audio A/S
Lautrupbjerg 7
Ballerup DK-2750
DK

18-58-80 (hex) Arcadyan Corporation
185880 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

B8-F2-55 (hex) Universal Electronics, Inc.
B8F255 (base 16) Universal Electronics, Inc.
201 E. Sandpointe Ave
Santa Ana CA 92707
US

04-79-75 (hex) Honor Device Co., Ltd.
047975 (base 16) Honor Device Co., Ltd.
A1701, Block AB, Building 1, Tianan Yungu Phase I, Gangtou Community, Bantian Street
Shenzhen Guangdong 518129
CN

70-FD-88 (hex) Nanjing Jiahao Technology Co., Ltd.
70FD88 (base 16) Nanjing Jiahao Technology Co., Ltd.
Moling Industrial Park, Development Zone, Jiangning, Nanjing
Nanjing Jiangsu 211111
CN

98-19-2C (hex) Edgecore Networks Corporation
98192C (base 16) Edgecore Networks Corporation
1 Creation RD 3.
Hsinchu 30077
TW

08-00-04 (hex) CROMEMCO
INCORPORATED
080004 (base 16) CROMEMCO INCORPORATED
280 BERNARDO AVENUE
MOUNTAIN VIEW CA 94043
US

FC-77-7B (hex) Hitron Technologies. Inc
FC777B (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

14-17-2A (hex) Fiberhome Telecommunication Technologies Co.,LTD
14172A (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

00-5F-BF (hex) Toshiba Corp.
005FBF (base 16) Toshiba Corp.
1-1 Shibaura 1-Chome, Minato-Ku
Tokyo 105-8001
JP

D4-05-DE (hex) eero inc.
D405DE (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

FC-0F-E7 (hex) Microchip Technology Inc.
FC0FE7 (base 16) Microchip Technology Inc.
2355 W. Chandler Blvd.
Chandler AZ 85224
US

C8-5C-CC (hex) Beijing Xiaomi Mobile Software Co., Ltd
C85CCC (base 16) Beijing
Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

78-9F-AA (hex) Huawei Device Co., Ltd.
789FAA (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

E8-A7-2F (hex) Microsoft Corporation
E8A72F (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

00-00-56 (hex) DR. B. STRUCK
000056 (base 16) DR. B. STRUCK
POB 1147 BAECKERBARG 6
W-GERMANY
DE

78-21-84 (hex) Espressif Inc.
782184 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

30-83-D2 (hex) Motorola Mobility LLC, a Lenovo Company
3083D2 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654

US

AC-50-DE (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
AC50DE
(base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

00-DD-B6 (hex) New H3C Technologies Co., Ltd
00DDB6 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

E0-7E-5F (hex) Renesas Electronics (Penang) Sdn. Bhd.
E07E5F (base 16) Renesas Electronics (Penang) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

38-BE-AB (hex) AltoBeam (China) Inc.
38BEAB (base 16) AltoBeam (China) Inc.
B808, Tsinghua Tongfang Hi-Tech Plaza, Haidian
Beijing Beijing 100083
CN

AC-8B-6A (hex) China Mobile IOT Company Limited
AC8B6A (base 16) China Mobile IOT Company Limited
NO.8 Yu Ma Road, NanAn Area
Chongqing Chongqing 401336
CN

B8-9E-A6 (hex) SPBEC-MINING CO.LTD
B89EA6 (base 16) SPBEC-MINING CO.LTD
st.
Kokkolevskaya, building 1/1
St. Petersburg 196140
RU

38-38-4B (hex) vivo Mobile Communication Co., Ltd.
38384B (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

48-73-CB (hex) Tiinlab Corporation
4873CB (base 16) Tiinlab Corporation

No. 3333, Liuxian Avenue, Tower A, 32th Floor, Tanglang City, Nanshan District
Shenzhen Guangdong 518055
CN

34-13-43 (hex) GE Lighting
341343 (base 16) GE Lighting
1975 Noble Rd
East Cleveland OH 44112
US

0C-DD-EF (hex) Nokia Corporation
0CDDEF (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

5C-96-66 (hex) Sony Interactive Entertainment Inc.
5C9666 (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

88-23-1F (hex) Fibocom Wireless Inc.
88231F (base 16) Fibocom Wireless Inc.
1101,Tower A, Building 6, Shenzhen International
Innovation Valley, Dashi 1st Rd, Nanshan
Shenzhen Guangdong 518055
CN

A4-DE-26 (hex) Sumitomo Electric Industries, Ltd
A4DE26 (base 16) Sumitomo Electric Industries, Ltd
1-1-3, Shimaya, Konohana-ku
Osaka 554-0024
JP

30-7B-C9 (hex) SHENZHEN BILIAN ELECTRONIC CO.LTD
307BC9 (base 16) SHENZHEN BILIAN ELECTRONIC CO.LTD
NO.268? Fuqian Rd, Jutang community, Guanlan Town, Longhua New district
shenzhen guangdong 518000
CN

04-68-65 (hex) Apple, Inc.
046865 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

DC-53-92 (hex) Apple, Inc.

DC5392 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

1C-B3-C9 (hex) Apple, Inc.
1CB3C9 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

FC-AA-81 (hex) Apple, Inc.
FCAA81 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

30-1A-30 (hex) Mako Networks Ltd
301A30
(base 16) Mako Networks Ltd
1355 North Maclean Blvd
Elgin IL 60123
US

C4-8B-A3 (hex) Cisco Meraki
C48BA3 (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco 94158
US

BC-6E-E2 (hex) Intel Corporate
BC6EE2 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

24-12-81 (hex) China Mobile Group Device Co.,Ltd.
241281 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

50-C0-F0 (hex) Artek Microelectronics Co.,Ltd.
50C0F0 (base 16) Artek Microelectronics Co.,Ltd.
202,NO.1 Building,Software Park,KeJiZhongEr Road,GaoXinQu,NanShan,
Shenzhen Guangdong 518057
CN

B4-AE-2B (hex) Microsoft
B4AE2B (base 16) Microsoft
1 Microsoft Way
Redmond Washington 98052
US

7C-72-6E (hex) Ericsson AB
7C726E (base 16) Ericsson AB
Torshamnsgatan 36
Stockholm SE-164 80
SE

60-93-16
(hex) Apple, Inc.
609316 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

64-6D-2F (hex) Apple, Inc.
646D2F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C0-F9-D2 (hex) arkona technologies GmbH
C0F9D2 (base 16) arkona technologies GmbH
Im Leuschnerpark 4
Griesheim Hessen 64347
DE

14-0A-29 (hex) Tiinlab Corporation
140A29 (base 16) Tiinlab Corporation
No. 3333, Liuxian Avenue, Tower A, 32th Floor, Tanglang City, Nanshan District
Shenzhen Guangdong 518055
CN

F4-70-0C (hex) IEEE Registration Authority
F4700C (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

D4-EE-DE (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
D4EEDE (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

C0-8B-05 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C08B05
(base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

24-CE-33 (hex) Amazon Technologies Inc.
24CE33 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

54-9F-06 (hex) Nokia Shanghai Bell Co., Ltd.
549F06 (base 16) Nokia Shanghai Bell Co., Ltd.
No.388 Ning Qiao Road,Jin Qiao Pudong Shanghai
Shanghai 201206
CN

68-A8-78 (hex) GeoWAN Pty Ltd
68A878 (base 16) GeoWAN Pty Ltd
Level 17, 31 Queen Street
Melbourne Victoria 3000
AU

40-9B-21 (hex) Nokia
409B21 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

94-B3-4F (hex) Ruckus Wireless
94B34F (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

38-A9-1C (hex) New H3C Technologies Co., Ltd
38A91C (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang
310052
CN

B0-1C-0C (hex) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
B01C0C (base 16) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
Unit East Block22-24/F,Skyworth semiconductor design Bldg., Gaoxin Ave.4.S.,Nanshan District,Shenzhen,China

SHENZHEN GUANGDONG 518057
CN

68-40-3C (hex) Fiberhome Telecommunication Technologies Co.,LTD
68403C (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

90-3E-7F (hex) Fiberhome Telecommunication Technologies Co.,LTD
903E7F (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

14-C0-A1 (hex) UCloud Technology Co., Ltd.
14C0A1 (base 16) UCloud Technology Co., Ltd.
Building 10#B, LongChangRoad 619
ShangHai 200093
CN

C0-36-53 (hex) eero inc.
C03653 (base 16) eero inc.
660 3rd Street
San Francisco 94107
US

94-02-30 (hex) Logitech
940230
(base 16) Logitech
7700 Gateway Blvd
Newark CA 94560
US

E0-9D-13 (hex) Samsung Electronics Co.,Ltd
E09D13 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

DC-0E-96 (hex) Palo Alto Networks
DC0E96 (base 16) Palo Alto Networks
3000 Tannery Way
Santa Clara CA 95054
US

30-C6-F7 (hex) Espressif Inc.
30C6F7 (base 16) Espressif Inc.

Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

4C-44-5B (hex) Intel Corporate
4C445B (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C8-CA-79 (hex) Ciena Corporation
C8CA79 (base 16) Ciena Corporation
7035 Ridge Road
Hanover MD 21076
US

68-E4-78 (hex) Qingdao Haier Technology Co.,Ltd
68E478 (base 16) Qingdao Haier Technology Co.,Ltd
Building A01,Haier Information Park, No.1 Haier Road,
Qingdao Shandong 266101
CN

08-02-05
(hex) HUAWEI TECHNOLOGIES CO.,LTD
080205 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

04-20-84 (hex) zte corporation
042084 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

B4-5F-84 (hex) zte corporation
B45F84 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

00-DF-1D (hex) Cisco Systems, Inc
00DF1D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A0-0F-37 (hex) Cisco Systems, Inc

A00F37 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

78-72-64 (hex) IEEE Registration Authority
787264 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

10-97-BD (hex) Espressif Inc.
1097BD
(base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

38-7A-0E (hex) Intel Corporate
387A0E (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

94-60-D5 (hex) Aruba, a Hewlett Packard Enterprise Company
9460D5 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

9C-C2-C4 (hex) Inspur Electronic Information Industry Co.,Ltd.
9CC2C4 (base 16) Inspur Electronic Information Industry Co.,Ltd.
No 224 Shanda Road
Jinan Shandong 250013
CN

AC-80-D6 (hex) Hexatronic AB
AC80D6 (base 16) Hexatronic AB
Exportgatan 47B
Gothenburg 42246
SE

DC-E5-5B (hex) Google, Inc.
DCE55B (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

4C-B9-EA (hex) iRobot Corporation
4CB9EA (base 16) iRobot Corporation
8 Crosby Drive
Bedford
MA 01730
US

90-35-EA (hex) Silicon Laboratories
9035EA (base 16) Silicon Laboratories
400 West Cesar Chavez Street
Austin TX 78701
US

FC-A8-4A (hex) Sentinum GmbH
FCA84A (base 16) Sentinum GmbH
Fuerther Str. 246b
Nuremberg 90429
DE

78-67-0E (hex) Wistron Neweb Corporation
78670E (base 16) Wistron Neweb Corporation
No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu R.O.C. 308
TW

30-4F-00 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
304F00 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

64-32-16 (hex) Weidu Technology (Beijing) Co., Ltd.
643216 (base 16) Weidu Technology (Beijing) Co., Ltd.
1129-106, 11F, No.18 Zhongguancun Street, Haidian District,
Beijing 100080
CN

1C-5E-E6 (hex) SHENZHEN TWOWING TECHNOLOGIES CO.,LTD.
1C5EE6 (base 16) SHENZHEN TWOWING TECHNOLOGIES CO.,LTD.
Nangang
Industrial Building, Tangtou Industrial Park, Shiyan, Baoan
Shenzhen Guangdong 518108
CN

34-6F-24 (hex) AzureWave Technology Inc.
346F24 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231

TW

DC-91-66 (hex) Huawei Device Co., Ltd.
DC9166 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

70-11-35 (hex) Livesecu co., Ltd
701135 (base 16) Livesecu co., Ltd
9F/925, Anyang SK V1 Center, 25-32, LS-ro 116beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do
anyang city Gyeonggi-do 14118
KR

C0-6B-55 (hex) Motorola Mobility LLC, a Lenovo Company
C06B55 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

DC-84-E9 (hex) Shenzhen Qihoo Intelligent Technology Co.,Ltd
DC84E9 (base 16) Shenzhen Qihoo Intelligent Technology Co.,Ltd
Building A2, Chi Yuen
Technology Park, 1001 College Avenue, Nanshan District, Shenzhen, P.R.C.
Shenzhen Guangdong 518000
CN

B8-94-E7 (hex) Xiaomi Communications Co Ltd
B894E7 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

34-B9-8D (hex) Xiaomi Communications Co Ltd
34B98D (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

D8-1F-12 (hex) Tuya Smart Inc.
D81F12 (base 16) Tuya Smart Inc.
160 Greentree Drive, Suite 101
Dover DE 19904
US

20-4B-22 (hex) Sunnovo International Limited
204B22 (base 16) Sunnovo International Limited
1717 Haitai Building

Beijing Beijing 100083
CN

C8-1C-FE (hex) Zebra Technologies Inc.
C81CFE (base 16) Zebra Technologies Inc.
ONE ZEBRA PLAZA
HOLTSVILLE NY 11742
US

B0-6A-41 (hex) Google, Inc.
B06A41 (base
16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

1C-ED-6F (hex) AVM Audiovisuelles Marketing und Computersysteme GmbH
1CED6F (base 16) AVM Audiovisuelles Marketing und Computersysteme GmbH
Alt-Moabit 95
Berlin Berlin 10559
DE

34-84-E4 (hex) Texas Instruments
3484E4 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

AC-4D-16 (hex) Texas Instruments
AC4D16 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

B0-10-A0 (hex) Texas Instruments
B010A0 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

F0-70-4F (hex) Samsung Electronics Co.,Ltd
F0704F (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

AC-6C-90 (hex) Samsung Electronics Co.,Ltd
AC6C90 (base 16) Samsung Electronics Co.,Ltd

#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

90-B6-22 (hex) Samsung
Electronics Co.,Ltd
90B622 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

0C-02-BD (hex) Samsung Electronics Co.,Ltd
0C02BD (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

2C-D1-DA (hex) Keysight Technologies, Inc.
2CD1DA (base 16) Keysight Technologies, Inc.
2800 Woodlawn Drive, #271
Honolulu Hawaii 96822
US

C4-FC-EF (hex) SambaNova Systems, Inc.
C4FCEF (base 16) SambaNova Systems, Inc.
2100 Geng Rd #103
Palo Alto 94303
US

6C-3C-7C (hex) CANON INC.
6C3C7C (base 16) CANON INC.
30-2 Shimomaruko 3-chome,
Ohta-ku Tokyo 146-8501
JP

C4-D7-FD (hex) Bouffalo Lab (Nanjing) Co., Ltd.
C4D7FD (base 16) Bouffalo Lab (Nanjing) Co., Ltd.
5F, Gongxiang Space, No.100 Tuanjie Road, Nanjing, China
Nanjing Jiangsu 211800
CN

A4-1A-3A (hex) TP-LINK TECHNOLOGIES CO.,LTD.
A41A3A (base 16) TP-LINK
TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

B4-AC-8C (hex) Bern University of Applied Sciences
B4AC8C (base 16) Bern University of Applied Sciences
Dammweg 3
Bern Bern 3013
CH

BC-CE-25 (hex) Nintendo Co.,Ltd
BCCE25 (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

A0-9F-7A (hex) D-Link Middle East FZCO
A09F7A (base 16) D-Link Middle East FZCO
PIot No.S31102, PO Box:18224, Jebel Ali Free Zone,Dubai,UAE
Dubai 18224
AE

B4-20-46 (hex) eero inc.
B42046 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

E8-6E-44 (hex) zte corporation
E86E44 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

00-E7-E3 (hex) zte corporation
00E7E3 (base 16) zte
corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

9C-54-C2 (hex) New H3C Technologies Co., Ltd
9C54C2 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

78-E9-CF (hex) TELLESCOM INDUSTRIA E COMERCIO EM TELECOMUNICACAO
78E9CF (base 16) TELLESCOM INDUSTRIA E COMERCIO EM TELECOMUNICACAO
Av. Buriti, 1900 – Setor B – Distrito Industrial
Manaus Amazonas 69075-000
BR

50-7B-9D (hex) LCFC(HeFei) Electronics Technology co., ltd
507B9D (base 16) LCFC(HeFei) Electronics Technology co., ltd
YunGu Road 3188-1
Hefei Anhui 230000
CN

28-D2-44 (hex) LCFC(HeFei) Electronics Technology co., ltd
28D244 (base 16) LCFC(HeFei) Electronics Technology co., ltd
6 Cui Wei Road
Hefei Anhui 230000
CN

00-0D-67 (hex) Ericsson
000D67 (base 16) Ericsson
349 Terry Fox Drive
Kanata Ottawa K2K
2V6
CA

24-D7-EB (hex) Espressif Inc.
24D7EB (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

FC-1D-2A (hex) vivo Mobile Communication Co., Ltd.
FC1D2A (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

90-09-D0 (hex) Synology Incorporated
9009D0 (base 16) Synology Incorporated
9F., No.1, Yuandong Rd., Banqiao Dist.,
New Taipei City 220632
TW

A0-D0-5B (hex) Samsung Electronics Co.,Ltd
A0D05B (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

04-D4-42 (hex) GUANGDONG GENIUS TECHNOLOGY CO., LTD.
04D442 (base 16) GUANGDONG GENIUS TECHNOLOGY CO., LTD.
No.168, Middle Road Of East Gate
Xiaobian Community Chang'an Town 523851

CN

54-6F-71 (hex) uAvionix Corporation
546F71 (base 16) uAvionix Corporation
300 Pine Needle
Lane
Bigfork MT 59911
US

54-EF-33 (hex) SHENZHEN BILIAN ELECTRONIC CO.LTD
54EF33 (base 16) SHENZHEN BILIAN ELECTRONIC CO.LTD
NO.268? Fuqian Rd, Jutang community, Guanlan Town, Longhua New district
shenzhen guangdong 518000
CN

1C-05-B7 (hex) Chongqing Trantor Technology Co., Ltd.
1C05B7 (base 16) Chongqing Trantor Technology Co., Ltd.
No.69,Huoju Avenue,Jiulongpo District.
Chongqing Chongqing 400050
CN

64-5A-36 (hex) Apple, Inc.
645A36 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

6C-71-D2 (hex) HUAWEI TECHNOLOGIES CO.,LTD
6C71D2 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F8-00-A1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F800A1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D8-76-AE (hex) HUAWEI TECHNOLOGIES
CO.,LTD
D876AE (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

0C-84-08 (hex) HUAWEI TECHNOLOGIES CO.,LTD
0C8408 (base 16) HUAWEI TECHNOLOGIES CO.,LTD

No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

44-48-B9 (hex) MitraStar Technology Corp.
4448B9 (base 16) MitraStar Technology Corp.
No. 6, Innovation Road II,
Hsinchu 300
TW

14-19-73 (hex) Beijing Yunyi Times Technology Co.,Ltd
141973 (base 16) Beijing Yunyi Times Technology Co.,Ltd
Room 4046, Building 1, Yard 10, Beiqijia Hongfu, Changping District
Beijing 102209
CN

20-32-C6 (hex) Apple, Inc.
2032C6 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

5C-52-30 (hex) Apple, Inc.
5C5230 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

5C-75-C6 (hex) China Mobile Group Device Co.,Ltd.
5C75C6
(base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

80-D2-E5 (hex) Nintendo Co.,Ltd
80D2E5 (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

70-66-E1 (hex) dnt Innovation GmbH
7066E1 (base 16) dnt Innovation GmbH
Maiburger Straße 29
Leer 26789
DE

F8-CE-72 (hex) Wistron Corporation

F8CE72 (base 16) Wistron Corporation
NO.5, HSIN AN ROAD, SCIENCE-BASED INDUSTRIAL PARK, HSINCHU, TAIWAN, R.O.C.
Hsinchu County Taiwan 303036
TW

CC-9D-A2 (hex) Eltex Enterprise Ltd.
CC9DA2 (base 16) Eltex Enterprise Ltd.
Okruzhnaya st. 29v
Novosibirsk 630020
RU

B4-37-D8 (hex) D-Link (Shanghai) Limited Corp.
B437D8 (base 16) D-Link (Shanghai) Limited Corp.
Room 612, Floor 6, No.88, Taigu Road,
Shanghai 200131
CN

00-0A-02 (hex) ANNSO CO., LTD.
000A02 (base 16) ANNSO
CO., LTD.
5F, No. 100, Min-Chuan Road, Shing-Tien
Shing-Tien City Taipei Hsien Taiwan 221
TW

00-0F-E5 (hex) MERCURY SECURITY CORPORATION
000FE5 (base 16) MERCURY SECURITY CORPORATION
2355 MIRA MAR AVE.
LONG BEACH CA 90815
US

74-76-5B (hex) Quectel Wireless Solutions Co.,Ltd.
74765B (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

9C-D5-7D (hex) Cisco Systems, Inc
9CD57D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

58-BF-25 (hex) Espressif Inc.
58BF25 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

94-1F-3A (hex) Ambiq
941F3A (base 16) Ambiq
6500 River Place Blvd., Building 7, Suite 200
Austin TX 78730
US

DC-BB-96 (hex) Full Solution Telecom
DCBB96 (base 16) Full Solution Telecom
Calle
130A #59C-42, Barrio Ciudad Jardin Norte
Bogota Distrito Capital de Bogota 111111
CO

60-53-75 (hex) HUAWEI TECHNOLOGIES CO.,LTD
605375 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

78-DD-33 (hex) HUAWEI TECHNOLOGIES CO.,LTD
78DD33 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A0-31-DB (hex) HUAWEI TECHNOLOGIES CO.,LTD
A031DB (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A0-44-5C (hex) HUAWEI TECHNOLOGIES CO.,LTD
A0445C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

64-6D-4E (hex) HUAWEI TECHNOLOGIES CO.,LTD
646D4E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake
Technology Park
Dongguan 523808
CN

08-5C-1B (hex) HUAWEI TECHNOLOGIES CO.,LTD
085C1B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808

CN

50-9A-88 (hex) HUAWEI TECHNOLOGIES CO.,LTD
509A88 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B8-3B-CC (hex) Xiaomi Communications Co Ltd
B83BCC (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

D0-9C-AE (hex) vivo Mobile Communication Co., Ltd.
D09CAE (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

88-D1-99 (hex) Vencer Co., Ltd.
88D199 (base 16) Vencer Co., Ltd.
14F-12, No. 79, Section 1, Hsin Tai Wu Road, Hsi-Chih District,
New Taipei City Taiwan 22101
TW

20-41-81
(hex) ESYSE GmbH Embedded Systems Engineering
204181 (base 16) ESYSE GmbH Embedded Systems Engineering
Ruth-Niehaus Str. 8
Meerbusch Nordrhein-Westfalen 40667
DE

D4-86-60 (hex) Arcadyan Corporation
D48660 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

CC-E2-36 (hex) Hangzhou Yaguan Technology Co. LTD
CCE236 (base 16) Hangzhou Yaguan Technology Co. LTD
33rd Floor, T4 US Center, European and American Financial City, Yuhang District, Hangzhou, Zhejiang
Hangzhou Zhejiang 311100
CN

50-6F-0C (hex) Sagemcom Broadband SAS
506F0C (base 16) Sagemcom Broadband SAS
250, route de l'Empereur

Rueil Malmaison Cedex hauts de seine 92848
FR

08-E7-E5 (hex) Huawei Device Co., Ltd.
08E7E5 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

48-73-97 (hex) New H3C Technologies Co., Ltd
487397 (base
16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

40-40-6C (hex) Icomera
40406C (base 16) Icomera
Odinsgatan 28
Gothenburg 411 03
SE

30-3F-BB (hex) Hewlett Packard Enterprise
303FBB (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

70-1F-0B (hex) WILOGY SRL
701F0B (base 16) WILOGY SRL
VIA BOSCO SNC
VEGLIE Lecce 73010
IT

A0-18-42 (hex) Comtrend Corporation
A01842 (base 16) Comtrend Corporation
3F-1, 10 Lane 609, Chongxin Road, Section 5,
New Taipei City, Taiwan 24159
TW

48-18-8D (hex) WEIFANG GOERTEK ELECTRONICS CO.,LTD
48188D (base 16) WEIFANG GOERTEK ELECTRONICS CO.,LTD
Gaoxin 2 Road, Free Trade Zone,Weifang,Shandong,261205,P.R.China
Weifang Shandong 261205
CN

80-FB-F1 (hex) Freescale Semiconductor (China) Ltd.
80FBF1 (base 16) Freescale Semiconductor (China) Ltd.

15#,Xing
Hua Road, Xi Qing Economic Technology Development Area
Tianjin 300385
CN

38-D5-7A (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
38D57A (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

74-5D-43 (hex) BSH Hausgeraete GmbH
745D43 (base 16) BSH Hausgeraete GmbH
Im Gewerbepark B10
Regensburg 93059
DE

7C-87-CE (hex) Espressif Inc.
7C87CE (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

8C-81-72 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
8C8172 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

1C-93-C4 (hex) Amazon Technologies Inc.
1C93C4 (base 16) Amazon Technologies Inc.
P.O Box
8102
Reno NV 89507
US

AC-49-DB (hex) Apple, Inc.
AC49DB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

44-F0-9E (hex) Apple, Inc.
44F09E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

08-FF-44 (hex) Apple, Inc.
08FF44 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

18-56-C3 (hex) Apple, Inc.
1856C3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

68-81-E0 (hex) HUAWEI TECHNOLOGIES CO.,LTD
6881E0 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

4C-D6-29 (hex) HUAWEI TECHNOLOGIES CO.,LTD
4CD629 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F0-C4-78 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F0C478 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road,
Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D8-6D-17 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D86D17 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

7C-1A-C0 (hex) HUAWEI TECHNOLOGIES CO.,LTD
7C1AC0 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

44-E5-17 (hex) Intel Corporate
44E517 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-0B-A5 (hex) Quasar Cipta Mandiri, PT
000BA5 (base 16) Quasar Cipta Mandiri, PT
Jl. Palasari 9A
Bandung West Java 40262
ID

70-CD-0D (hex) Intel Corporate
70CD0D (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

5C-0C-E6 (hex) Nintendo Co.,Ltd
5C0CE6 (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO
601-8501
JP

54-77-87 (hex) Earda Technologies co Ltd
547787 (base 16) Earda Technologies co Ltd
Block A,Lianfeng Creative Park, #2 Jisheng Rd., Nansha District
Guangzhou Guangdong 511455
CN

B8-8D-12 (hex) Apple, Inc.
B88D12 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-27-04 (hex) Accelerated Concepts, Inc
002704 (base 16) Accelerated Concepts, Inc
1208 E Kennedy Blvd
Tampa FL 33602
US

D0-C2-4E (hex) Samsung Electronics Co.,Ltd
D0C24E (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

34-5B-98 (hex) EM Microelectronic
345B98 (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074

CH

08-00-37 (hex) FUJIFILM Business Innovation Corp.
080037 (base 16) FUJIFILM Business Innovation Corp.
ADVANCED TECH & ENG'G CENTER
Yokohama 220-8668
JP

88-8E-7F (hex) ATOP CORPORATION
888E7F
(base 16) ATOP CORPORATION
ATOP Information Harbor, Jinjialin Experimental Economic Zone, Mianyang City, Sichuan Province, China
Mianyang 621000
CN

04-39-26 (hex) China Dragon Technology Limited
043926 (base 16) China Dragon Technology Limited
B4 Bldg.Haoshan 1st Industry Park,
Shenzhen Guangdong 518104
CN

D0-4D-C6 (hex) Aruba, a Hewlett Packard Enterprise Company
D04DC6 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

00-30-59 (hex) Kontron Europe GmbH
003059 (base 16) Kontron Europe GmbH
Nordstrasse 11/F
LUTERBACH 4542
CH

48-9E-BD (hex) HP Inc.
489EBD (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

00-26-9C (hex) ITUS JAPAN CO. LTD
00269C (base 16) ITUS JAPAN CO. LTD
7F Shinkawa B/D
Chuoku Tokyo 1040033
JP

BC-A3-7F (hex) Rail-Mil Sp. z o.o. Sp. K.
BCA37F (base 16) Rail-Mil Sp. z o.o.

Sp. K.
Kosmatki 82
Warsaw 03-982
PL

50-09-E5 (hex) Drimsys,Inc
5009E5 (base 16) Drimsys,Inc
147, Baumoe-ro
Seocho-gu Seoul 06752
KR

D8-A0-11 (hex) WiZ
D8A011 (base 16) WiZ
Unit 1203-5, 12/F, Tower 1, Enterprise Square, 9 Sheung Yuet Road
Kowloon Bay Hong Kong 0000
HK

28-FA-19 (hex) Shenzhen Jingxun Software Telecommunication Technology Co.,Ltd
28FA19 (base 16) Shenzhen Jingxun Software Telecommunication Technology Co.,Ltd
3/F,A5 Building Zhiyuan Community No.1001,Xueyuan Road Nanshan District
Shenzhen Guangdong 518055
CN

28-DF-EB (hex) Intel Corporate
28DFEB (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

88-FC-A6 (hex) devolo AG
88FCA6 (base 16) devolo AG
Charlottenburger Allee 67
Aachen NRW 52068
DE

B8-D5-6B (hex) Mirka Ltd.
B8D56B (base 16) Mirka Ltd.
Pensalavägen 210
Jeppo 66850
FI

CC-B5-D1 (hex) Beijing
Xiaomi Mobile Software Co., Ltd
CCB5D1 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

78-D6-DC (hex) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
78D6DC (base 16) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
No.19, Gaoxin 4th Road, Wuhan East Lake High-tech Zone, Wuhan
Wuhan Hubei 430000
CN

0C-43-14 (hex) Silicon Laboratories
0C4314 (base 16) Silicon Laboratories
400 West Cesar Chavez Street
Austin TX 78701
US

F4-C0-2F (hex) BlueBite
F4C02F (base 16) BlueBite
230, Simin-daero
Anyang-si Gyeonggi-do 14067
KR

98-F0-83 (hex) HUAWEI TECHNOLOGIES CO.,LTD
98F083 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

8C-64-A2 (hex) OnePlus Technology (Shenzhen) Co., Ltd
8C64A2
(base 16) OnePlus Technology (Shenzhen) Co., Ltd
18C02, 18C03, 18C04 ,18C05,TAIRAN BUILDING,
Shenzhen Guangdong 518000
CN

D0-54-75 (hex) SAVI Controls
D05475 (base 16) SAVI Controls
2420 Tarpley Rd, Suite 205
Carrollton TX 75006
US

50-8A-06 (hex) Tuya Smart Inc.
508A06 (base 16) Tuya Smart Inc.
160 Greentree Drive, Suite 101
Dover DE 19904
US

D4-08-68 (hex) Beijing Lanxum Computer Technology CO.,LTD.
D40868 (base 16) Beijing Lanxum Computer Technology CO.,LTD.
3A Floor,BlockB,Technology Fortune Center,No 8 Xueqing Road,Haidian District,
Beijing Beijing 100192
CN

20-3C-C0 (hex) Beijing Tosee Technology Co., Ltd.
203CC0 (base 16) Beijing Tosee Technology Co., Ltd.
Room S125, 1st Floor, Building 1, No. 9, Keyuan Road, Economic Development Zone, Daxing District
beijing 102600
CN

78-86-B6 (hex) Shenzhen YOUHUA Technology Co., Ltd
7886B6 (base 16) Shenzhen YOUHUA Technology
Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

C4-80-25 (hex) Huawei Device Co., Ltd.
C48025 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

B8-14-5C (hex) Huawei Device Co., Ltd.
B8145C (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C8-9D-18 (hex) Huawei Device Co., Ltd.
C89D18 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

DC-03-98 (hex) LG Innotek
DC0398 (base 16) LG Innotek
26, Hanamsandan 5beon-ro
Gwangju Gwangsan-gu 506-731
KR

A4-78-06 (hex) Cisco Systems, Inc
A47806 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

28-FB-AE (hex) HUAWEI TECHNOLOGIES CO.,LTD
28FBAE (base
16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park

Dongguan 523808
CN

88-A0-BE (hex) HUAWEI TECHNOLOGIES CO.,LTD
88A0BE (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

94-90-10 (hex) HUAWEI TECHNOLOGIES CO.,LTD
949010 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

9C-DC-71 (hex) Hewlett Packard Enterprise
9CDC71 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

E8-DA-00 (hex) Kivo Technology, Inc.
E8DA00 (base 16) Kivo Technology, Inc.
218 Main Street, Suite #724
Kirkland 98033
US

08-6A-C5 (hex) Intel Corporate
086AC5 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

8C-36-7A (hex) Palo Alto Networks
8C367A (base 16) Palo
Alto Networks
3000 Tannery Way
Santa Clara CA 95054
US

6C-FE-54 (hex) Intel Corporate
6CFE54 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

30-A6-12 (hex) ShenZhen Hugsun Technology Co.,Ltd.
30A612 (base 16) ShenZhen Hugsun Technology Co.,Ltd.

413~415 Room, 4/F, No.6 Bldg., TongFuYu Industrial Park, Dalang Street, 518109, Longhua New District,
ShengZhen GuangDong 518109
CN

18-75-32 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
187532 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12, TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road,
Chengdu Sichuan 610000
CN

9C-9C-40 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
9C9C40 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12, TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road,
Chengdu Sichuan 610000
CN

4C-3B-6C (hex) GARO AB
4C3B6C (base 16) GARO
AB
Södergatan 26
Gnosjö Jönköping 33525
SE

68-DD-D9 (hex) HMD Global Oy
68DDD9 (base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo 02600
FI

3C-19-5E (hex) Samsung Electronics Co.,Ltd
3C195E (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

5C-C8-E3 (hex) Shintec Hozumi co.ltd.
5CC8E3 (base 16) Shintec Hozumi co.ltd.
neura-machi 3-5-1
Miyoshi Aichi 470-0217
JP

D4-41-65 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
D44165 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12,TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road,
Chengdu Sichuan 610000
CN

7C-CC-1F (hex) Sichuan Tianyi Comheart Telecom Co.,LTD

7CCC1F (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12,TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road,
Chengdu Sichuan 610000
CN

FC-37-2B (hex) Sichuan Tianyi
Comheart Telecom Co.,LTD
FC372B (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12,TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road,
Chengdu Sichuan 610000
CN

24-8B-E0 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
248BE0 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12, TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road,
Chengdu Sichuan 610000
CN

5C-4A-1F (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
5C4A1F (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12, TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road,
Chengdu Sichuan 610000
CN

54-E0-61 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
54E061 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12, TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road,
Chengdu Sichuan 610000
CN

6C-94-66 (hex) Intel Corporate
6C9466 (base 16) Intel
Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

EC-8A-C4 (hex) Amazon Technologies Inc.
EC8AC4 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

78-B8-4B (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
78B84B (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12,TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road,
Chengdu Sichuan 610000
CN

1C-FF-59 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
1CFF59 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

C0-1B-23 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
C01B23 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
NO.198 FIRST SECTION,SNOW MOUNTAIN AVENUE, JINYUAN TOWN, DAYI COUNTY,
CHENGDU SICHUAN 611330
CN

10-38-1F (hex) Sichuan AI-Link Technology Co., Ltd.
10381F (base 16) Sichuan AI-Link
Technology Co., Ltd.
Anzhou, Industrial Park
Mianyang Sichuan 622650
CN

54-14-F3 (hex) Intel Corporate
5414F3 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

EC-B4-E8 (hex) Wistron Mexico SA de CV
ECB4E8 (base 16) Wistron Mexico SA de CV
Baudelio Perez Mucharras #420 Col Paseos de Zaragoza
ciudad Juarez Chihuahua 32550
MX

00-1F-C8 (hex) Up-Today Industrial Co., Ltd.
001FC8 (base 16) Up-Today Industrial Co., Ltd.
7/F., Unify Commercial & Industrial Building
Kowloon
HK

18-BB-41 (hex) Huawei Device Co., Ltd.
18BB41 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

78-18-A8 (hex) Huawei Device Co., Ltd.
7818A8 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808

CN

80-72-64 (hex) Huawei Device Co., Ltd.
807264 (base 16) Huawei
Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

E8-F6-54 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E8F654 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

20-87-EC (hex) HUAWEI TECHNOLOGIES CO.,LTD
2087EC (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

54-F6-E2 (hex) HUAWEI TECHNOLOGIES CO.,LTD
54F6E2 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A8-50-81 (hex) HUAWEI TECHNOLOGIES CO.,LTD
A85081 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

38-F3-FB (hex) Asperiq
38F3FB (base 16) Asperiq
Finngatan 8
Lund SE-22362
SE

38-AF-D0 (hex) Nevro
38AFD0
(base 16) Nevro
1800 Bridge Pkwy
Redwood City CA 94065
US

3C-7A-C4 (hex) Chemtronics
3C7AC4 (base 16) Chemtronics

junho.hong@chemtronics.co.kr
Bundang-gu Gyeonggi-do 13493
KR

A4-58-02 (hex) SHIN-IL TECH
A45802 (base 16) SHIN-IL TECH
711 HO,DAEMYEONG BELLI ON,10, Gyeongin-ro 53ga-gil, Guro-gu
Seoul KS013
KR

FC-97-A8 (hex) Cricut Inc.
FC97A8 (base 16) Cricut Inc.
10855 South River Front Pkwy Suite 300
South Jordan UT 84095
US

00-A0-0E (hex) NETSCOUT SYSTEMS INC
00A00E (base 16) NETSCOUT SYSTEMS INC
310 Littleton Road
Westford MA 01886
US

60-A4-B7 (hex) TP-Link Corporation Limited
60A4B7 (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

50-AE-86 (hex) Linkintec Co., Ltd
50AE86 (base 16) Linkintec Co., Ltd
3rd floor, building A3, phase I, Zhihui Industrial Park,
intersection of Chongqing Road and Yan'an Road, Baohe Economic Development Zone
Hefei City Anhui 230041
CN

60-15-92 (hex) IEEE Registration Authority
601592 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

14-3B-42 (hex) Realfit(Shenzhen) Intelligent Technology Co., Ltd
143B42 (base 16) Realfit(Shenzhen) Intelligent Technology Co., Ltd
Room 201, building a, No.1 Qianwan 1st Road, Shenzhen Hong Kong cooperation zone, Qianhai
Shenzhen Guangdong 518000
CN

8C-D9-D6 (hex) Xiaomi Communications Co Ltd

8CD9D6 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

60-C5-E6 (hex) Skullcandy
60C5E6 (base 16) Skullcandy
6301 N. Landmark Dr.
Park City 84098
US

10-94-97 (hex) Logitech Hong Kong
109497 (base 16) Logitech Hong Kong
Room 1002-1003, 10/F, Tower 1, Cheung Sha Wan Plaza, 833 Cheung
Sha Wan Road, Kowloon, Hong Kong
Hong Kong NA
HK

D4-77-98 (hex) Cisco Systems, Inc
D47798 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

10-C9-CA (hex) Ace Technology Corp.
10C9CA (base 16) Ace Technology Corp.
237, Namdongseo-ro, Namdong-gu
Incheon 21634
KR

BC-FA-B8 (hex) Guangzhou Shiyuan Electronic Technology Company Limited
BCFAB8 (base 16) Guangzhou Shiyuan Electronic Technology Company Limited
No.6, 4th Yunpu Road, Yunpu industry District
Guangzhou Guangdong 510530
CN

EC-02-73 (hex) Aruba, a Hewlett Packard Enterprise Company
EC0273 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

A0-4A-5E (hex) Microsoft Corporation
A04A5E (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

EC-2E-98 (hex) AzureWave Technology Inc.
EC2E98 (base 16) AzureWave Technology Inc.
8F.,
No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

38-F3-AB (hex) LCFC(HeFei) Electronics Technology co., ltd
38F3AB (base 16) LCFC(HeFei) Electronics Technology co., ltd
YunGu Road 3188-1
Hefei Anhui 230000
CN

00-15-E5 (hex) Cheertek Inc.
0015E5 (base 16) Cheertek Inc.
No.2, Du-Sing First Road, Science-Based Industrial Park,
Hsinchu 300
TW

8C-83-FC (hex) Axioma Metering UAB
8C83FC (base 16) Axioma Metering UAB
Veterinaru str. 52
Biruliskes Kaunas district LT-54469
LT

A0-D7-A0 (hex) Huawei Device Co., Ltd.
A0D7A0 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

A4-DA-D4 (hex) Yamato Denki Co.,Ltd.
A4DAD4 (base 16) Yamato Denki Co.,Ltd.
3-2-14,Koyama
Shinagawa-ku,Tokyo 142-0062
JP

F4-B1-C2 (hex) Zhejiang Dahua Technology Co., Ltd.
F4B1C2 (base 16) Zhejiang Dahua Technology Co., Ltd.
No.1199,Waterfront
Road
Hangzhou Zhejiang 310053
CN

94-3C-C6 (hex) Espressif Inc.
943CC6 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203

CN

E0-DA-90 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E0DA90 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A4-A4-6B (hex) HUAWEI TECHNOLOGIES CO.,LTD
A4A46B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C0-47-54 (hex) vivo Mobile Communication Co., Ltd.
C04754 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

F0-2F-4B (hex) Apple, Inc.
F02F4B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

40-E6-4B (hex) Apple, Inc.
40E64B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino
CA 95014
US

B4-FA-48 (hex) Apple, Inc.
B4FA48 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

14-09-B4 (hex) zte corporation
1409B4 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

10-10-81 (hex) zte corporation
101081 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China

shenzhen guangdong 518057
CN

80-44-FD (hex) China Mobile (Hangzhou) Information Technology Co., Ltd.
8044FD (base 16) China Mobile (Hangzhou) Information Technology Co., Ltd.
No. 1600 Yuhangtang Road, Wuchang Street, Yuhang District, Hangzhou, Zhejiang
Hangzhou Zhejiang 310000
CN

F4-6A-D7 (hex) Microsoft Corporation
F46AD7 (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

48-1F-2D (hex) Shenzhen Jie Shi Lian Industrial Co.,LTD
481F2D (base 16) Shenzhen Jie Shi Lian
Industrial Co.,LTD
6F,C Building,Jinao Industrial Park,Juling Rd,Guanlan Town,Longhua
Shenzhen Guangdong 518000
CN

F8-1A-2B (hex) Google, Inc.
F81A2B (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

CC-88-C7 (hex) Aruba, a Hewlett Packard Enterprise Company
CC88C7 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

F4-A8-0D (hex) Wistron InfoComm(Kunshan)Co.,Ltd.
F4A80D (base 16) Wistron InfoComm(Kunshan)Co.,Ltd.
168# First Avenue,Kunshan Integrated Free Trade Zone,Kunshan,Jiangsu,China
Kunshan Jiangsu 215300
CN

3C-A8-ED (hex) smart light technology
3CA8ED (base 16) smart light technology
172 LSro
Gunpo Gyeonggido 15807
KR

F8-85-F9 (hex) Calix Inc.
F885F9 (base 16) Calix Inc.

2777 Orchard Pkwy
San Jose CA 95131
US

78-CF-F9 (hex) Huawei Device Co., Ltd.
78CFF9 (base 16) Huawei Device
Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

38-B3-F7 (hex) Huawei Device Co., Ltd.
38B3F7 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

84-E9-86 (hex) Huawei Device Co., Ltd.
84E986 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

AC-1F-0F (hex) Texas Instruments
AC1F0F (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

74-D2-85 (hex) Texas Instruments
74D285 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

04-C2-9B (hex) Aura Home, Inc.
04C29B (base 16) Aura Home, Inc.
50 Eldridge Street, Suite 5D
New York NY 10002
US

A8-E8-1E (hex) ATW TECHNOLOGY, INC.
A8E81E (base 16) ATW TECHNOLOGY, INC.
1F, No.236 Ba’ai Street, Shulin District
New Taipei City 23845
TW

1C-87-E3

(hex) TECNO MOBILE LIMITED
1C87E3 (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

20-B7-30 (hex) TeconGroup, Inc
20B730 (base 16) TeconGroup, Inc
3rd Khoroshevskaya str., 20, floor 1, room 112
Moscow 123423
RU

E8-4D-74 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E84D74 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

CC-89-5E (hex) HUAWEI TECHNOLOGIES CO.,LTD
CC895E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

48-88-99 (hex) Shenzhen SuperElectron Technology Co.,Ltd.
488899 (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen
Guangdong 518000
CN

DC-B1-31 (hex) SHENZHEN HUARUIAN TECHNOLOGY CO.,LTD
DCB131 (base 16) SHENZHEN HUARUIAN TECHNOLOGY CO.,LTD
Floo2nd and 3rd floor, building A, Huixin Industrial Park, No.31 Yonghe Road, Heping community, Fuhai street, Bao'an District, Shenzhen, China
Shenzhen Guangdong 518101
CN

8C-73-A0 (hex) Fiberhome Telecommunication Technologies Co.,LTD
8C73A0 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

EC-63-D7 (hex) Intel Corporate
EC63D7 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3

Kulim Kedah 09000
MY

7C-9F-07 (hex) CIG SHANGHAI CO LTD
7C9F07 (base 16) CIG SHANGHAI CO LTD
5th Floor, Building 8 No 2388 Chenhang Road
SHANGHAI 201114
CN

20-3B-69 (hex) vivo Mobile Communication Co., Ltd.
203B69 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

5C-17-20
(hex) Huawei Device Co., Ltd.
5C1720 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

14-85-7F (hex) Intel Corporate
14857F (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

94-E2-3C (hex) Intel Corporate
94E23C (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

98-3F-66 (hex) Wuhan Funshion Online Technologies Co.,Ltd
983F66 (base 16) Wuhan Funshion Online Technologies Co.,Ltd
5th Floor,Financial Port Building A9,No.77 Optical Valley Avenue, East Lake High-Tech Development Zone, Wuhan
Wuhan CN/Hubei 430000
CN

84-3B-10 (hex) LVSWITCHES INC.
843B10 (base 16) LVSWITCHES INC.
F1 building,New light source base Luocun town,Nanhai district
Foshan Guangdong 528000
CN

94-A4-F9 (hex) HUAWEI TECHNOLOGIES CO.,LTD

94A4F9 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2
Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

6C-34-91 (hex) HUAWEI TECHNOLOGIES CO.,LTD
6C3491 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

3C-E3-6B (hex) Zhejiang Dahua Technology Co., Ltd.
3CE36B (base 16) Zhejiang Dahua Technology Co., Ltd.
No.1199,Waterfront Road
Hangzhou Zhejiang 310053
CN

28-5B-0C (hex) Sichuan Jiuzhou Electronic Technology Co., Ltd.
285B0C (base 16) Sichuan Jiuzhou Electronic Technology Co., Ltd.
No. 259, Jiuzhou Road
Mianyang City Sichuan Province 621000
CN

14-89-CB (hex) HUAWEI TECHNOLOGIES CO.,LTD
1489CB (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

6C-26-36 (hex) HUAWEI TECHNOLOGIES CO.,LTD
6C2636 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room
R6,Songshan Lake Technology Park
Dongguan 523808
CN

58-56-C2 (hex) HUAWEI TECHNOLOGIES CO.,LTD
5856C2 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A0-36-79 (hex) HUAWEI TECHNOLOGIES CO.,LTD
A03679 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B8-D6-F6 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B8D6F6 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

2C-52-AF (hex) HUAWEI TECHNOLOGIES CO.,LTD
2C52AF (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-24-70 (hex) AUROTECH ultrasound AS.
002470 (base 16) AUROTECH ultrasound AS.
Svingen 1
Tydal Sr-Tr N-7590
NO

58-FB-96 (hex) Ruckus Wireless
58FB96
(base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

60-5E-4F (hex) Huawei Device Co., Ltd.
605E4F (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

1C-E6-AD (hex) Huawei Device Co., Ltd.
1CE6AD (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

50-97-07 (hex) Xiamen Paperang Technology Co.,Ltd.
509707 (base 16) Xiamen Paperang Technology Co.,Ltd.
Unit 1702-1703, 17/F, No.55, North Chengyi Road,Xiamen Software Park Phase 3
Xiamen Fujian 361021
CN

AC-23-16 (hex) Mist Systems, Inc.
AC2316 (base 16) Mist Systems, Inc.
1601 South De Anza Blvd, Suite 248
Cupertino CA 95014

US

2C-00-AB (hex) ARRIS Group, Inc.
2C00AB (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

48-68-4A (hex) Intel Corporate
48684A (base 16) Intel
Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

BC-F1-71 (hex) Intel Corporate
BCF171 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

F0-62-5A (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
F0625A (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

14-98-77 (hex) Apple, Inc.
149877 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

88-66-5A (hex) Apple, Inc.
88665A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B0-E5-F9 (hex) Apple, Inc.
B0E5F9 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

14-EB-08 (hex) HUAWEI TECHNOLOGIES CO.,LTD
14EB08 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park

Dongguan 523808
CN

B0-16-56
(hex) HUAWEI TECHNOLOGIES CO.,LTD
B01656 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A8-42-A7 (hex) Jiangsu Huitong Group Co.,Ltd.
A842A7 (base 16) Jiangsu Huitong Group Co.,Ltd.
No. 24, Block 2, Taohuawu New District
Zhenjiang Jiangsu 212003
CN

2C-D2-6B (hex) FN-LINK TECHNOLOGY LIMITED
2CD26B (base 16) FN-LINK TECHNOLOGY LIMITED
A Building,HuiXin industial park,No 31, YongHe road, Fuyong town, Bao'an District
SHENZHEN GUANGDONG 518100
CN

DC-90-20 (hex) RURU TEK PRIVATE LIMITED
DC9020 (base 16) RURU TEK PRIVATE LIMITED
The Canopy , BLOCK A , SECOND FLOOR , UNIT 1B , PARANUR RAILWAY STATION ROAD ,MAHINDRA WORLD CITY,
CHENGALPATTU TAMILNADU 603004
IN

F0-16-28 (hex) Technicolor (China) Technology Co., Ltd.
F01628 (base 16) Technicolor (China) Technology Co., Ltd.
No.A2181,2F,Zhongguancun Dongsheng
Science and Technology Park, Jia No.18, Xueqing Rd., Haidian District
Beijing 100083
CN

B8-8D-F1 (hex) Nanjing BigFish Semiconductor Co., Ltd.
B88DF1 (base 16) Nanjing BigFish Semiconductor Co., Ltd.
7th Floor,Block A, Chuangzhi Building, No.17, Xinghuo Road
Nanjing Jiangsu 210032
CN

6C-4A-74 (hex) AERODISK LLC
6C4A74 (base 16) AERODISK LLC
Obrucheva, 30/1 b1
Moscow Moskva 117485
RU

38-10-F0 (hex) Aruba, a Hewlett Packard Enterprise Company
3810F0 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

F8-8F-07 (hex) Samsung Electronics Co.,Ltd
F88F07 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

40-DE-17 (hex) Shenzhen Lanfeng Times Industrial Co.,Ltd.
40DE17 (base 16) Shenzhen Lanfeng Times Industrial Co.,Ltd.
Introduction Building 6F,71 Xin'an Street, Baoan District
Shenzhen Guangdong 518101
CN

54-A6-DB
(hex) Huawei Device Co., Ltd.
54A6DB (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

84-71-6A (hex) Huawei Device Co., Ltd.
84716A (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

48-8C-63 (hex) Huawei Device Co., Ltd.
488C63 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

70-DD-EF (hex) Huawei Device Co., Ltd.
70DDEF (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

8C-EA-48 (hex) Samsung Electronics Co.,Ltd
8CEA48 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

00-5F-67 (hex) TP-Link Corporation Limited
005F67 (base 16) TP-Link Corporation Limited
Room 901,9/F.New East
Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

BC-F4-5F (hex) zte corporation
BCF45F (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

78-D4-F1 (hex) IEEE Registration Authority
78D4F1 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

A0-62-FB (hex) HISENSE VISUAL TECHNOLOGY CO.,LTD
A062FB (base 16) HISENSE VISUAL TECHNOLOGY CO.,LTD
Qianwangang Road 218
Qingdao Shandong 266510
CN

9C-68-65 (hex) Fiberhome Telecommunication Technologies Co.,LTD
9C6865 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

38-3D-5B (hex) Fiberhome Telecommunication Technologies Co.,LTD
383D5B (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

24-ED-FD (hex) Siemens Canada Limited
24EDFD
(base 16) Siemens Canada Limited
1954 Technology Drive
Peterborough Ontario K9J 6X7
CA

6C-CD-D6 (hex) NETGEAR
6CCDD6 (base 16) NETGEAR
350 East Plumeria Drive

San Jose CA 95134
US

54-07-64 (hex) Huawei Device Co., Ltd.
540764 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

DC-D7-A0 (hex) Huawei Device Co., Ltd.
DCD7A0 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

14-18-C3 (hex) Intel Corporate
1418C3 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

D4-EC-AB (hex) vivo Mobile Communication Co., Ltd.
D4ECAB (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

BC-3E-CB (hex) vivo Mobile Communication Co., Ltd.
BC3ECB (base 16) vivo Mobile Communication Co.,
Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

08-79-8C (hex) HUAWEI TECHNOLOGIES CO.,LTD
08798C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B0-BD-1B (hex) Dongguan Liesheng Electronic Co., Ltd.
B0BD1B (base 16) Dongguan Liesheng Electronic Co., Ltd.
F5, Building B, North Block, Gaosheng Tech Park, No. 84 Zhongli Road, Nancheng District, Dongguan Ci
dongguan guangdong 523000
CN

54-DB-A2 (hex) Fibrain
54DBA2 (base 16) Fibrain

Zaczernie 190F
Zaczernie Subcarpathia 36-062
PL

60-55-F9 (hex) Espressif Inc.
6055F9 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

50-3D-C6 (hex) Xiaomi Communications Co Ltd
503DC6 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

54-8A-BA
(hex) Cisco Systems, Inc
548ABA (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1D-1E (hex) KYUSHU TEN CO.,LTD
001D1E (base 16) KYUSHU TEN CO.,LTD
2360 YUNOKIMOTOMACHI
SASEBO-City NAGASAKI Prefecture 857-0115
JP

50-C3-A2 (hex) nFore Technology Co.,Ltd.
50C3A2 (base 16) nFore Technology Co.,Ltd.
5F., No.31, Ln. 258, Ruiguang Rd. Neihu Dist., Taipei City 114, Taiwan
Taipei 114
TW

44-AE-25 (hex) Cisco Systems, Inc
44AE25 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

BC-E7-12 (hex) Cisco Systems, Inc
BCE712 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

CC-CC-81 (hex) HUAWEI TECHNOLOGIES CO.,LTD

CCCC81 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1-4,Huawei Industrial Base,Bantian,Longgang
ShenZhen GuangDong 518129
CN

40-89-A8 (hex) WiredIQ, LLC
4089A8 (base
16) WiredIQ, LLC
1 South School Avenue
sarasota FL 34237
US

3C-20-93 (hex) GD Midea Air-Conditioning Equipment Co.,Ltd.
3C2093 (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
Midea Global Innovation Center,Beijiao Town,Shunde
Foshan Guangdong 528311
CN

34-AF-B3 (hex) Amazon Technologies Inc.
34AFB3 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

E0-29-67 (hex) HMD Global Oy
E02967 (base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo 02600
FI

98-8B-69 (hex) Shenzhen hylitech Co.,LTD
988B69 (base 16) Shenzhen hylitech Co.,LTD
Room 1001, Tower B, Daulshine Global Science And Technology Center, Hong Lang 2 Road North, Baoan District, Shenzhen 518101, China
shenzhen GuangDong 518109
CN

18-14-6C (hex) Zhejiang Tmall Technology Co., Ltd.
18146C (base 16) Zhejiang Tmall Technology Co., Ltd.
Ali Center,No.3331 Keyuan South RD (Shenzhen bay), Nanshan District, Shenzhen Guangdong province
Shenzhen GuangDong 518000
CN

68-89-75 (hex) nuoxc
688975 (base 16) nuoxc
92
518173

CN

1C-D1-BA (hex) Fiberhome Telecommunication Technologies Co.,LTD
1CD1BA (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

A8-99-DC (hex) i-TOP DESING TECHNOLOGY CO.,LTD
A899DC (base 16) i-TOP DESING TECHNOLOGY CO.,LTD
301-302,Rongchengda Building,Dabao Road, Bao an District
Shenzhen 518101
CN

64-A1-98 (hex) Huawei Device Co., Ltd.
64A198 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

5C-9A-A1 (hex) Huawei Device Co., Ltd.
5C9AA1 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C0-E3-FB (hex) HUAWEI TECHNOLOGIES CO.,LTD
C0E3FB (base 16) HUAWEI TECHNOLOGIES
CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

68-3F-7D (hex) INGRAM MICRO SERVICES
683F7D (base 16) INGRAM MICRO SERVICES
100 CHEMIN DE BAILLOT
MONTAUBAN 82000
FR

80-4B-50 (hex) Silicon Laboratories
804B50 (base 16) Silicon Laboratories
400 West Cesar Chavez Street
Austin TX 78701
US

2C-07-86 (hex) Huawei Device Co., Ltd.
2C0786 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone

Dongguan Guangdong 523808
CN

A8-6E-4E (hex) Huawei Device Co., Ltd.
A86E4E (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

94-5F-34 (hex) Renesas Electronics (Penang) Sdn. Bhd.
945F34 (base 16) Renesas Electronics (Penang) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

60-3C-EE (hex) LG Electronics (Mobile Communications)
603CEE (base
16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

2C-4A-11 (hex) Ciena Corporation
2C4A11 (base 16) Ciena Corporation
7035 Ridge Road
Hanover MD 21076
US

10-2D-31 (hex) Shenzhen Americas Trading Company LLC
102D31 (base 16) Shenzhen Americas Trading Company LLC
1308 Capital Ave.Suite #7
Plano TX 75074
US

30-E2-83 (hex) Texas Instruments
30E283 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

F8-A7-3A (hex) Cisco Systems, Inc
F8A73A (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

B8-11-4B (hex) Cisco Systems, Inc
B8114B (base 16) Cisco Systems, Inc

80 West Tasman Drive
San Jose CA 94568
US

94-09-D3 (hex) shenzhen maxtopic technology co.,ltd
9409D3 (base 16) shenzhen maxtopic technology co.,ltd
F3,Building 4, Ji'an Industrial Park, Songbai Blvd
shenzhen guangdong
518108
CN

C4-0B-31 (hex) Apple, Inc.
C40B31 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

78-2E-56 (hex) China Mobile Group Device Co.,Ltd.
782E56 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

30-24-A9 (hex) HP Inc.
3024A9 (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

C4-CB-54 (hex) Fibocom Auto Inc.
C4CB54 (base 16) Fibocom Auto Inc.
5/F,Tower A,Technology Building II,1057# Nanhai Blvd
Shenzhen Guangdong 518054
CN

0C-35-4F (hex) Nokia
0C354F (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

1C-4C-48 (hex) ITEL MOBILE LIMITED
1C4C48 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

10-96-93 (hex) Amazon Technologies Inc.

109693 (base 16) Amazon Technologies
Inc.
P.O Box 8102
Reno NV 89507
US

20-AC-9C (hex) China Telecom Corporation Limited
20AC9C (base 16) China Telecom Corporation Limited
31 Jinrong Street, Xicheng District, Beijing, China
Beijing, China 100033
CN

28-AD-18 (hex) Hui Zhou Gaoshengda Technology Co.,LTD
28AD18 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.75,Zhongkai High-Tech Development District,Huizhou
Hui Zhou Guangdong 516006
CN

24-A4-87 (hex) Huawei Device Co., Ltd.
24A487 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C4-5A-86 (hex) Huawei Device Co., Ltd.
C45A86 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

64-20-E0 (hex) T3 Technology Co., Ltd.
6420E0 (base 16) T3 Technology Co., Ltd.
No.65/113, Chamnan Phenjati, 12A Floor, Rama9 road
Bangkok Bangkok 10310
TH

84-11-C2
(hex) IEEE Registration Authority
8411C2 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

E4-F1-D4 (hex) vivo Mobile Communication Co., Ltd.
E4F1D4 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

5C-C0-A0 (hex) HUAWEI TECHNOLOGIES CO.,LTD
5CC0A0 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

04-F3-52 (hex) HUAWEI TECHNOLOGIES CO.,LTD
04F352 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

EC-A1-D1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
ECA1D1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A4-6D-A4 (hex) HUAWEI TECHNOLOGIES CO.,LTD
A46DA4 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2
Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

8C-7A-15 (hex) Ruckus Wireless
8C7A15 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

78-6A-1F (hex) ARRIS Group, Inc.
786A1F (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

24-94-CB (hex) ARRIS Group, Inc.
2494CB (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

90-DE-80 (hex) Shenzhen Century Xinyang Technology Co., Ltd
90DE80 (base 16) Shenzhen Century Xinyang Technology Co., Ltd
3F, North Building, Bantian High-tech industrial Zone, No. 2 of Bell Road
Shenzhen Guangdong 518129

CN

FC-B6-9D (hex) Zhejiang Dahua Technology Co., Ltd.
FCB69D (base 16) Zhejiang Dahua Technology Co., Ltd.
No.1199,Waterfront Road
Hangzhou Zhejiang 310053
CN

94-F2-BB (hex) Valeo Vision Systems
94F2BB (base 16) Valeo Vision Systems
Dunmore
Road
Tuam Co. Galway H54 Y276
IE

E0-E1-A9 (hex) Shenzhen Four Seas Global Link Network Technology Co., Ltd.
E0E1A9 (base 16) Shenzhen Four Seas Global Link Network Technology Co., Ltd.
Room 607-610, Block B, TAOJINDI Electronic Business Incubation Base
Tenglong Road, Longhua District, Shenzhen Guangdong 518000
CN

AC-67-84 (hex) Google, Inc.
AC6784 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

A8-B0-88 (hex) eero inc.
A8B088 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

18-5B-B3 (hex) Samsung Electronics Co.,Ltd
185BB3 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

9C-5F-B0 (hex) Samsung Electronics Co.,Ltd
9C5FB0 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

E8-7F-6B (hex) Samsung Electronics Co.,Ltd
E87F6B (base 16) Samsung Electronics

Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

24-30-F8 (hex) Huawei Device Co., Ltd.
2430F8 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C4-3C-EA (hex) BUFFALO.INC
C43CEA (base 16) BUFFALO.INC
AKAMONDORI Bld.,30-20,Ohsu 3-chome,Naka-ku
Nagoya Aichi Pref. 460-8315
JP

6C-14-14 (hex) BUJEON ELECTRONICS Co,.Ltd
6C1414 (base 16) BUJEON ELECTRONICS Co,.Ltd
59, Seonjinan-gil, Sangnok-gu
Ansan-si Gyeonggi-do 15633
KR

1C-EC-72 (hex) Allradio Co., Ltd
1CEC72 (base 16) Allradio Co., Ltd
76, Deokcheon-ro 34beon-gil, Manan-gu
Anyang-si,Gyeonggi-do Republic of Korea 430-803
KR

B0-EC-DD (hex) HUAWEI TECHNOLOGIES CO.,LTD
B0ECDD (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E4-DC-43 (hex) Huawei Device Co., Ltd.
E4DC43 (base 16) Huawei
Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

28-0F-C5 (hex) Beijing Leadsec Technology Co., Ltd.
280FC5 (base 16) Beijing Leadsec Technology Co., Ltd.
Venus Plaza No.21Zhongguancun Software Park,No.8 Dongbeiwang Xilu, Haidian District
Beijing Beijing 100193
CN

48-8B-0A (hex) Cisco Systems, Inc
488B0A (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-17-C9 (hex) Samsung Electronics Co.,Ltd
0017C9 (base 16) Samsung Electronics Co.,Ltd
416, Maetan-3Dong, Yeongtong-Gu
Suwon Geyonggi-Do 443-742
KR

64-A2-00 (hex) Xiaomi Communications Co Ltd
64A200 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

70-3A-2D (hex) Shenzhen V-Link Technology CO., LTD.
703A2D (base 16) Shenzhen V-Link Technology CO., LTD.
Room 1803, BaiRuiDa Building,
Bantian Sub-district, LongGang District
Shenzhen GuangDong 518000
CN

B4-BA-12 (hex) China Mobile (Hangzhou) Information Technology Co.,Ltd.
B4BA12 (base 16) China Mobile (Hangzhou) Information Technology Co.,Ltd.
No. 1600 Yuhangtang Road, Wuchang Street, Yuhang District
Hangzhou Zhejiang 311100
CN

5C-F9-FD (hex) Taicang T&W Electronics
5CF9FD (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

80-F5-B5 (hex) Texas Instruments
80F5B5 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

1C-30-08 (hex) Hui Zhou Gaoshengda Technology Co.,LTD
1C3008 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.75,Zhongkai High-Tech Development District,Huizhou
Hui Zhou Guangdong 516006
CN

98-06-3A (hex) Home Control Singapore Pte Ltd
98063A (base 16) Home Control Singapore Pte Ltd
151 Lorong Chuan
Singapore 556741
SG

E0-E0-C2 (hex) China Mobile
Group Device Co.,Ltd.
E0E0C2 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

D4-91-0F (hex) Amazon Technologies Inc.
D4910F (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

1C-45-C2 (hex) Huizhou City Sunsin lntelligent Technology Co.,Ltd
1C45C2 (base 16) Huizhou City Sunsin lntelligent Technology Co.,Ltd
Outside No.6 community, Zhongkai high tech Zone, Huizhou
Huizhou 516000
CN

84-CC-63 (hex) Huawei Device Co., Ltd.
84CC63 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C0-78-31 (hex) Huawei Device Co., Ltd.
C07831 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

EC-7E-91 (hex) ITEL MOBILE LIMITED
EC7E91 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING
NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

C4-FB-AA (hex) HUAWEI TECHNOLOGIES CO.,LTD
C4FBAA (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park

Dongguan 523808
CN

AC-DC-CA (hex) HUAWEI TECHNOLOGIES CO.,LTD
ACDCCA (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B8-5F-B0 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B85FB0 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

7C-4E-09 (hex) Shenzhen Skyworth Wireless Technology Co.,Ltd
7C4E09 (base 16) Shenzhen Skyworth Wireless Technology Co.,Ltd
Unit 3A01,Block A Skyworth Building,Gaoxin Ave.I.S.,Nanshan District
Shenzhen Guangdong 518057
CN

6C-1E-D7 (hex) vivo Mobile Communication Co., Ltd.
6C1ED7 (base 16) vivo Mobile Communication
Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

F0-AA-0B (hex) Arra Networks/ Spectramesh
F0AA0B (base 16) Arra Networks/ Spectramesh
9201 Ward Pkwy #101
Kansas City MO 64114
US

94-56-41 (hex) Palo Alto Networks
945641 (base 16) Palo Alto Networks
3000 Tannery Way
Santa Clara CA 95054
US

38-98-E9 (hex) Huawei Device Co., Ltd.
3898E9 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

48-A5-16 (hex) Huawei Device Co., Ltd.
48A516 (base 16) Huawei Device Co., Ltd.

No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

28-DE-65 (hex) Aruba, a Hewlett Packard Enterprise Company
28DE65 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

B0-A6-51 (hex) Cisco Systems, Inc
B0A651 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San
Jose CA 94568
US

18-36-72 (hex) Shaoxing ShunChuang Technology CO.,LTD
183672 (base 16) Shaoxing ShunChuang Technology CO.,LTD
N.O.398 west tongjiang load shangyu
Shaoxing Zhejiang 312300
CN

EC-C3-02 (hex) HUMAX Co., Ltd.
ECC302 (base 16) HUMAX Co., Ltd.
HUMAX Village, 216, Hwangsaeul-ro, Bu
Seongnam-si Gyeonggi-do 463-875
KR

98-C9-7C (hex) Shenzhen iComm Semiconductor CO.,LTD
98C97C (base 16) Shenzhen iComm Semiconductor CO.,LTD
Room 601,Block B ,Digital Building,Garden City
Shenzhen No.1079 Nanhai Road,Nanshan District 518067
CN

00-C3-43 (hex) E-T-A Circuit Breakers Ltd
00C343 (base 16) E-T-A Circuit Breakers Ltd
6 Telford Close
Aylesbury Buckinghamshire HP198DG
GB

A0-D0-DC (hex) Amazon Technologies Inc.
A0D0DC (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

14-3F-C3 (hex) SnapAV

143FC3 (base 16) SnapAV
1800 Continental Blvd
Charlotte
NC 28273
US

20-9A-7D (hex) Sagemcom Broadband SAS
209A7D (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

50-C6-8E (hex) Biwin Semiconductor (HK) Company Limted
50C68E (base 16) Biwin Semiconductor (HK) Company Limted
5th/F., Block 4, Tongfuyu Industrial Park, Tanglang, Xili, Nanshan
Shenzhen Guangdong 518055
CN

E4-75-DC (hex) Arcadyan Corporation
E475DC (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

58-20-8A (hex) IEEE Registration Authority
58208A (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

C4-DD-57 (hex) Espressif Inc.
C4DD57 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

64-F5-4E (hex) EM Microelectronic
64F54E (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier
Neuchatel 2074
CH

10-27-79 (hex) Sadel S.p.A.
102779 (base 16) Sadel S.p.A.
via Marino Serenari, 1
Castel Maggiore Bologna 40013
IT

80-CA-4B (hex) SHENZHEN GONGJIN ELECTRONICS CO.,LTD
80CA4B (base 16) SHENZHEN GONGJIN ELECTRONICS CO.,LTD
No.2, Danzi North Road, Kengzi Street,Pingshan District,
SHENZHEN GUANGDONG 518122
CN

C4-16-88 (hex) Huawei Device Co., Ltd.
C41688 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

64-B0-E8 (hex) Huawei Device Co., Ltd.
64B0E8 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

30-A9-98 (hex) Huawei Device Co., Ltd.
30A998 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

BC-A5-A9 (hex) Apple, Inc.
BCA5A9 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino
CA 95014
US

20-E2-A8 (hex) Apple, Inc.
20E2A8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A0-FB-C5 (hex) Apple, Inc.
A0FBC5 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-7D-60 (hex) Apple, Inc.
007D60 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

74-42-7F (hex) AVM Audiovisuelles Marketing und Computersysteme GmbH
74427F (base 16) AVM Audiovisuelles Marketing und Computersysteme GmbH
Alt-Moabit 95
Berlin Berlin 10559
DE

00-1C-45 (hex) Chenbro Micom Co., Ltd.
001C45 (base 16) Chenbro Micom Co., Ltd.
15Fl., No. 150, Jian Yi Road
Chung Ho City Taipei Hsien 235
TW

C0-61-9A (hex) IEEE Registration Authority
C0619A (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

40-06-34 (hex) Huawei Device Co., Ltd.
400634 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng
Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C4-2B-44 (hex) Huawei Device Co., Ltd.
C42B44 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

F8-A2-6D (hex) CANON INC.
F8A26D (base 16) CANON INC.
30-2 Shimomaruko 3-chome,
Ohta-ku Tokyo 146-8501
JP

68-9E-0B (hex) Cisco Systems, Inc
689E0B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-42-38 (hex) Intel Corporate
004238 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3

Kulim Kedah 09000
MY

74-F9-CA (hex) Nintendo Co.,Ltd
74F9CA (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

70-61-EE (hex) Sunwoda Electronic Co.,Ltd
7061EE (base 16) Sunwoda Electronic Co.,Ltd
No 2,Yihe Road, shiyan Street?shilong Community ,Baoan District
Shenzhen 518105
CN

04-E7-95 (hex) HUAWEI
TECHNOLOGIES CO.,LTD
04E795 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-19-DC (hex) ENENSYS Technologies
0019DC (base 16) ENENSYS Technologies
Le Germanium
RENNES Brittany 35700
FR

B0-7D-64 (hex) Intel Corporate
B07D64 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

48-90-2F (hex) LG Electronics (Mobile Communications)
48902F (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

4C-22-19 (hex) YUANFUDAO HK LIMTED
4C2219 (base 16) YUANFUDAO HK LIMTED
Building C, global creative center, No. 10, Furong street
Beijing 100102
CN

28-C2-1F (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
28C21F (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)

93Moo5T. Bangsamak SEMTHAI, WELLGROW INDUSTRIAL ESTATE
Bangpakong Chachoengsao
24180
TH

8C-70-86 (hex) Gesellschaft für Sonder-EDV-Anlagen mbH
8C7086 (base 16) Gesellschaft für Sonder-EDV-Anlagen mbH
Lorsbacher Straße 31
Hofheim 65719
DE

1C-28-AF (hex) Aruba, a Hewlett Packard Enterprise Company
1C28AF (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

E4-24-6C (hex) Zhejiang Dahua Technology Co., Ltd.
E4246C (base 16) Zhejiang Dahua Technology Co., Ltd.
No.1199,Waterfront Road
Hangzhou Zhejiang 310053
CN

E8-EB-1B (hex) Microchip Technology Inc.
E8EB1B (base 16) Microchip Technology Inc.
2355 W. Chandler Blvd.
Chandler AZ 85224
US

38-BA-B0 (hex) Broadcom
38BAB0 (base 16) Broadcom
1320 Ridder Park
San Jose CA 95131
US

B0-A4-60 (hex) Intel Corporate
B0A460 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-00-83 (hex) TADPOLE TECHNOLOGY PLC
000083
(base 16) TADPOLE TECHNOLOGY PLC
137 DITTON WALK
ENGLAND
GB

28-B7-7C (hex) IEEE Registration Authority
28B77C (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

D8-EF-42 (hex) Huawei Device Co., Ltd.
D8EF42 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

80-CC-12 (hex) Huawei Device Co., Ltd.
80CC12 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

18-AA-0F (hex) Huawei Device Co., Ltd.
18AA0F (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

54-D9-C6 (hex) Huawei Device Co., Ltd.
54D9C6 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

30-8A-F7 (hex) Huawei Device Co., Ltd.
308AF7 (base 16) Huawei Device
Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

00-14-6A (hex) Cisco Systems, Inc
00146A (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

68-D6-ED (hex) GooWi Wireless Technology Co., Limited
68D6ED (base 16) GooWi Wireless Technology Co., Limited
RM402 Building212, Tairan Technology Park, Futian District
Shenzhen Guangdong 518000
CN

84-02-83 (hex) HUMAX Co., Ltd.
840283 (base 16) HUMAX Co., Ltd.
HUMAX Village, 216, Hwangsaeul-ro, Bu
Seongnam-si Gyeonggi-do 463-875
KR

94-17-00 (hex) Xiaomi Communications Co Ltd
941700 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

00-E4-06 (hex) HUAWEI TECHNOLOGIES CO.,LTD
00E406 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

44-22-7C
(hex) HUAWEI TECHNOLOGIES CO.,LTD
44227C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

CC-B1-82 (hex) HUAWEI TECHNOLOGIES CO.,LTD
CCB182 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

AC-95-72 (hex) Jovision Technology Co., Ltd.
AC9572 (base 16) Jovision Technology Co., Ltd.
Floor 12, Building 3, Aosheng Square, No.1166 Xinluo Street
Jinan Shandong 250101
CN

00-17-53 (hex) nFore Technology Inc.
001753 (base 16) nFore Technology Inc.
5F, NO 31, Ln 258, Rulguang Rd
Taipei Neihu District 11491
TW

08-9B-B9 (hex) Nokia Solutions and Networks GmbH & Co. KG
089BB9 (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541

DE

D8-9E-D4 (hex) Fiberhome Telecommunication Technologies Co.,LTD
D89ED4
(base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

AC-9A-96 (hex) Maxlinear, Inc
AC9A96 (base 16) Maxlinear, Inc
Am Campeon 3
Neubiberg Bavaria 85579
DE

40-D2-5F (hex) ITEL MOBILE LIMITED
40D25F (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

54-F1-5F (hex) Sichuan AI-Link Technology Co., Ltd.
54F15F (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou, Industrial Park
Mianyang Sichuan 622650
CN

E0-79-C4 (hex) iRay Technology Company Limited
E079C4 (base 16) iRay Technology Company Limited
Building 45, No. 1000, Jinhai RD., Pudong New Area
Shanghai 201206
CN

00-16-36 (hex) Quanta Computer Inc.
001636 (base 16) Quanta Computer Inc.
No. 211, Wen Hwa 2Rd., Kuei Shan Hsiang
Tao Yuan Shien 0000
TW

88-40-67
(hex) infomark
884067 (base 16) infomark
3F. Humaxvillage, 216 Hwangsaeul-ro
Seongnam-si 13595
KR

A8-03-2A (hex) Espressif Inc.
A8032A (base 16) Espressif Inc.

Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

00-1A-57 (hex) Matrix Design Group, LLC
001A57 (base 16) Matrix Design Group, LLC
5741 Prospect Dr.
Newburgh IN 47630
US

00-1C-FC (hex) Sumitomo Electric Industries, Ltd
001CFC (base 16) Sumitomo Electric Industries, Ltd
1-1-3, Shimaya, Konohana-ku
Osaka 554-0024
JP

48-43-DD (hex) Amazon Technologies Inc.
4843DD (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

58-94-A2 (hex) KETEK GmbH
5894A2 (base 16) KETEK GmbH
Hofer Str. 3
München 81737
DE

64-E7-D8 (hex) Samsung Electronics Co.,Ltd
64E7D8 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

08-38-69
(hex) Hong Kong AMobile Intelligent Corp. Limited Taiwan Branch
083869 (base 16) Hong Kong AMobile Intelligent Corp. Limited Taiwan Branch
8F.-1, No.700, Zhongzheng Rd., Zhonghe Dist.
New Taipei City 235 23552
TW

24-81-C7 (hex) Huawei Device Co., Ltd.
2481C7 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

FC-86-2A (hex) Huawei Device Co., Ltd.

FC862A (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

88-29-49 (hex) Renesas Electronics (Penang) Sdn. Bhd.
882949 (base 16) Renesas Electronics (Penang) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

3C-84-6A (hex) TP-LINK TECHNOLOGIES CO.,LTD.
3C846A (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen
Guangdong 518057
CN

24-A1-60 (hex) Espressif Inc.
24A160 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

DC-AE-EB (hex) Ruckus Wireless
DCAEEB (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

84-D8-1B (hex) TP-LINK TECHNOLOGIES CO.,LTD.
84D81B (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

7C-2A-DB (hex) Xiaomi Communications Co Ltd
7C2ADB (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

90-91-64 (hex) ChongQing Lavid Technology Co., Ltd.
909164 (base 16) ChongQing Lavid Technology Co., Ltd.
Plant No. 3, Block M2, Photoelectric Park, Wuqiao Lianhe Economic Development Zone, Wanzhou District
Chongqing
404100
CN

EC-DB-86 (hex) API-K
ECDB86 (base 16) API-K
ZA Tire Poix
Saint Vincent de Mercuze Isère 38660
FR

1C-3D-2F (hex) HUAWEI TECHNOLOGIES CO.,LTD
1C3D2F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

EC-75-3E (hex) HUAWEI TECHNOLOGIES CO.,LTD
EC753E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-1D-67 (hex) AMEC
001D67 (base 16) AMEC
9F,No.360,Ruel Guang Rd,Neihu
Taipei 114
TW

BC-E9-2F (hex) HP Inc.
BCE92F (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

00-1A-62 (hex) Data Robotics, Incorporated
001A62 (base 16) Data Robotics, Incorporated
1881 Landings Dr
Mountain View CA 94043
US

C0-63-69 (hex) BINXIN TECHNOLOGY(ZHEJIANG) LTD.
C06369 (base 16) BINXIN TECHNOLOGY(ZHEJIANG) LTD.
B4066
Haichuang Park,368 Liuhe Road, Binjiang District
Hangzhou Zhejiang 310051
CN

18-41-FE (hex) Digital 14
1841FE (base 16) Digital 14
Elektroniikkatie 8
Oulu 90590

FI

F8-64-B8 (hex) zte corporation
F864B8 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

14-51-20 (hex) Huawei Device Co., Ltd.
145120 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C0-D1-93 (hex) Huawei Device Co., Ltd.
C0D193 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

78-04-E3 (hex) Huawei Device Co., Ltd.
7804E3 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

A4-3B-0E (hex) Huawei Device Co., Ltd.
A43B0E (base 16) Huawei Device Co., Ltd.
No.2
of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

E0-92-A7 (hex) Feitian Technologies Co., Ltd
E092A7 (base 16) Feitian Technologies Co., Ltd
Floor 17, Tower B, Huizhi Mansion, No.9 Xueqing Rd, Haidian District
Beijing 100085
CN

B0-76-1B (hex) HUAWEI TECHNOLOGIES CO.,LTD
B0761B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

8C-0E-60 (hex) Nanjing Juplink Intelligent Technologies Co., Ltd.
8C0E60 (base 16) Nanjing Juplink Intelligent Technologies Co., Ltd.
No. 757 Dixiu Road, Binjiang Economic Development Zone, Jiangning District

Nanjing Jiangsu 211100
CN

08-B0-A7 (hex) Truebeyond Co., Ltd
08B0A7 (base 16) Truebeyond Co., Ltd
D-906, 60, Haan-ro
Gwangmyeong Gyeonggi 14322
KR

34-0A-33 (hex) D-Link International
340A33 (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore
Singapore 609917
SG

94-44-44 (hex) LG Innotek
944444 (base 16) LG Innotek
Jangduk-dong, Gwangsan-gu
Gwang-ju 506-731
KR

84-37-D5 (hex) Samsung Electronics Co.,Ltd
8437D5 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

34-82-C5 (hex) Samsung Electronics Co.,Ltd
3482C5 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

18-AB-1D (hex) Samsung Electronics Co.,Ltd
18AB1D (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F8-60-F0 (hex) Aruba, a Hewlett Packard Enterprise Company
F860F0 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

7C-6D-F8 (hex) Apple, Inc.
7C6DF8 (base 16) Apple, Inc.

1 Infinite Loop
Cupertino CA 95014
US

50-AD-71 (hex) Tessolve Semiconductor Private Limited
50AD71
(base 16) Tessolve Semiconductor Private Limited
Plot No: 31, P2, Electronic City Phase II, Electronic City
Bengaluru Karnataka 560100
IN

5C-A5-BC (hex) eero inc.
5CA5BC (base 16) eero inc.
660 3rd Street
San Francisco 94107
US

F0-D7-AF (hex) IEEE Registration Authority
F0D7AF (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

7C-A9-6B (hex) Syrotech Networks. Ltd.
7CA96B (base 16) Syrotech Networks. Ltd.
UNIT NO.-5 20F, KIN WING INDUSTERIAL BUILDING,33 KIN WING STREET
TUEN MUN 999077
HK

98-06-3C (hex) Samsung Electronics Co.,Ltd
98063C (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

74-A7-EA (hex) Amazon Technologies Inc.
74A7EA (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

74-AB-93 (hex) Blink by Amazon
74AB93 (base 16) Blink by Amazon
100 Riverpark
Drive
North Reading MA 01864
US

D8-4F-37 (hex) Proxis, spol. s r.o.
D84F37 (base 16) Proxis, spol. s r.o.
Slovenska 1
Bardejov PSK 08501
SK

84-EA-ED (hex) Roku, Inc
84EAED (base 16) Roku, Inc
1155 Coleman Ave
San Jose CA 95110
US

78-11-00 (hex) Quantumsolution
781100 (base 16) Quantumsolution
Rm 903, STX V-Tower, 128, Gasandigital 1-ro, Geumcheon-gu
Seoul 08507
KR

DC-91-BF (hex) Amazon Technologies Inc.
DC91BF (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

6C-CE-44 (hex) 1MORE
6CCE44 (base 16) 1MORE
TianliaoBuilding F14?New Materials Industrial Park,Xueyuan Blvd,Nanshan
Shenzhen Guangdong 518055
CN

E8-7F-95 (hex) Apple, Inc.
E87F95 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

88-C0-8B (hex) Apple, Inc.
88C08B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

4C-7C-D9
(hex) Apple, Inc.
4C7CD9 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

94-08-53 (hex) Liteon Technology Corporation
940853 (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

B4-9E-80 (hex) Sichuan Changhong Electric Ltd.
B49E80 (base 16) Sichuan Changhong Electric Ltd.
No.35,East MianXin Road,MianYang,Sichaun,China.
MianYang SiChuan PRC 621000
CN

A4-93-40 (hex) Beijing Supvan Information Technology Co.,Ltd.
A49340 (base 16) Beijing Supvan Information Technology Co.,Ltd.
206.2/F,Building No.1.No.1 Gaoxin Three Street. Huilongguan Town,Changping District
Beijing Beijing 102206
CN

F8-E8-77 (hex) Harman/Becker Automotive Systems GmbH
F8E877 (base 16) Harman/Becker Automotive Systems GmbH
Becker-Göring-Straße 16
Karlsbad Baden-Württemberg 76307
DE

A0-9B-12 (hex) China Mobile IOT Company Limited
A09B12 (base 16) China
Mobile IOT Company Limited
NO.8 Yu Ma Road, NanAn Area
Chongqing Chongqing 401336
CN

00-E2-2C (hex) China Mobile Group Device Co.,Ltd.
00E22C (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

98-F6-21 (hex) Xiaomi Communications Co Ltd
98F621 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

D0-76-8F (hex) Calix Inc.
D0768F (base 16) Calix Inc.
2777 Orchard Pkwy
San Jose CA 95131

US

C0-39-5A (hex) Zhejiang Dahua Technology Co., Ltd.
C0395A (base 16) Zhejiang Dahua Technology Co., Ltd.
No.1199,Waterfront Road
Hangzhou Zhejiang 310053
CN

20-64-CB (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
2064CB (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

14-13-FB
(hex) HUAWEI TECHNOLOGIES CO.,LTD
1413FB (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F0-55-01 (hex) Huawei Device Co., Ltd.
F05501 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

DC-1B-A1 (hex) Intel Corporate
DC1BA1 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

94-FB-A7 (hex) IEEE Registration Authority
94FBA7 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

FC-3D-A5 (hex) Arcadyan Corporation
FC3DA5 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

BC-33-AC (hex) Silicon Laboratories
BC33AC (base 16) Silicon Laboratories
7000 W. William Cannon Dr.

Austin TX 78735
US

AC-3C-8E (hex) Flextronics Computing(Suzhou)Co.,Ltd.
AC3C8E
(base 16) Flextronics Computing(Suzhou)Co.,Ltd.
No.1 GuanPu Road. Guoxiang street , WuZhong District,Suzhou City, Jiangsu Province.
Suzhou 215124
CN

40-62-34 (hex) Telink Semiconductor (Shanghai) Co., Ltd.
406234 (base 16) Telink Semiconductor (Shanghai) Co., Ltd.
No. 1500 Zuchongzhi Rd, Building #3
Shanghai 201203
CN

C8-71-25 (hex) Johnson Outdoors Marine Electronics d/b/a Minnkota
C87125 (base 16) Johnson Outdoors Marine Electronics d/b/a Minnkota
1531 E Madison Ave
Mankato MN 56001
US

80-CF-A2 (hex) Huawei Device Co., Ltd.
80CFA2 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

00-94-EC (hex) Huawei Device Co., Ltd.
0094EC (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

74-45-2D (hex) Huawei Device Co., Ltd.
74452D (base 16) Huawei Device
Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

EC-6C-B5 (hex) zte corporation
EC6CB5 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

C0-B1-01 (hex) zte corporation

C0B101 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

A4-50-06 (hex) SHENZHEN HUACHUANG SHIDAI TECHNOLOGYCO.,LTD
A45006 (base 16) SHENZHEN HUACHUANG SHIDAI TECHNOLOGYCO.,LTD
longhua dalang huaronglu lianjiangongyeyuan 4-5
shenzhen guangdong 518000
CN

14-01-52 (hex) Samsung Electronics Co.,Ltd
140152 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-13-29 (hex) VSST Co., LTD
001329 (base 16) VSST Co., LTD
suit 3202, Korea World Trade Center 159-1
Seoul 135-729
KR

7C-F2-DD (hex) Vence Corp
7CF2DD
(base 16) Vence Corp
16885 W Bernardo Dr., STE 209
San Diego CA 92127
US

98-8E-79 (hex) Qudelix, Inc.
988E79 (base 16) Qudelix, Inc.
605-ho, 21, Baekbeom-ro 31-gil, Mapo-gu
Seoul 12110
KR

A8-6A-BB (hex) Sagemcom Broadband SAS
A86ABB (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

24-43-E2 (hex) DASAN Network Solutions
2443E2 (base 16) DASAN Network Solutions
DASAN Tower 8F, 49 Daewangpangyo-ro644beon-gil Bundang-gu
Seongnam-si Gyeonggi-do 13493
KR

CC-AB-2C (hex) HUMAX Co., Ltd.
CCAB2C (base 16) HUMAX Co., Ltd.
HUMAX Village, 216, Hwangsaeul-ro, Bu
Seongnam-si Gyeonggi-do 463-875
KR

D4-9C-F4 (hex) Palo Alto Networks
D49CF4 (base 16) Palo Alto Networks
3000 Tannery Way
Santa Clara CA 95054
US

C4-24-56 (hex) Palo Alto Networks
C42456 (base 16) Palo Alto Networks
3000 Tannery Way
Santa
Clara CA 95054
US

84-D4-12 (hex) Palo Alto Networks
84D412 (base 16) Palo Alto Networks
3000 Tannery Way
Santa Clara CA 95054
US

B8-2F-CB (hex) CMS Electracom
B82FCB (base 16) CMS Electracom
24 Binney Road
Kings Park NSW 2148
AU

4C-FC-AA (hex) Tesla,Inc.
4CFCAA (base 16) Tesla,Inc.
3500 Deer Creek Rd.
PALO ALTO CA 94304
US

08-03-42 (hex) Palo Alto Networks
080342 (base 16) Palo Alto Networks
3000 Tannery Way
Santa Clara CA 95054
US

C8-07-39 (hex) NAKAYO Inc
C80739 (base 16) NAKAYO Inc
1-3-2, Soja-machi
Maebashi-shi Gunma 371-0853
JP

54-0E-2D (hex) vivo Mobile Communication Co., Ltd.
540E2D (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

70-8F-47 (hex) vivo Mobile Communication Co., Ltd.
708F47 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong
523860
CN

00-18-76 (hex) WowWee Ltd.
001876 (base 16) WowWee Ltd.
92 Granville Rd. Suite 301A-C
T.S.T. East Kowloon
HK

EC-23-7B (hex) zte corporation
EC237B (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

6C-6D-09 (hex) Kyowa Electronics Co.,Ltd.
6C6D09 (base 16) Kyowa Electronics Co.,Ltd.
4-3-31 Takatsukasa
Takarazuka Hyogo 665-0051
JP

90-17-3F (hex) HUAWEI TECHNOLOGIES CO.,LTD
90173F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

60-7E-CD (hex) HUAWEI TECHNOLOGIES CO.,LTD
607ECD (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

10-CE-45 (hex) Miromico AG
10CE45 (base 16) Miromico AG
Gallusstrasse 4
Zurich Zurich CH-8006

CH

BC-4A-56 (hex) Cisco
Systems, Inc
BC4A56 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

F8-AF-05 (hex) Huawei Device Co., Ltd.
F8AF05 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

78-B8-D6 (hex) Zebra Technologies Inc.
78B8D6 (base 16) Zebra Technologies Inc.
ONE ZEBRA PLAZA
HOLTSVILLE NY 11742
US

8C-59-DC (hex) ASR Microelectronics (Shanghai) Co., Ltd.
8C59DC (base 16) ASR Microelectronics (Shanghai) Co., Ltd.
Building 2, NO.399 Keyuan Road,Pudong District
Shanghai Shanghai 201210
CN

18-82-8C (hex) Arcadyan Corporation
18828C (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

D4-52-EE (hex) SKY UK LIMITED
D452EE (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

AC-12-03 (hex) Intel Corporate
AC1203 (base 16) Intel Corporate
Lot
8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

94-E9-EE (hex) Huawei Device Co., Ltd.
94E9EE (base 16) Huawei Device Co., Ltd.

No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

28-E3-4E (hex) HUAWEI TECHNOLOGIES CO.,LTD
28E34E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

9C-F0-29 (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
9CF029 (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

28-56-C1 (hex) Harman/Becker Automotive Systems GmbH
2856C1 (base 16) Harman/Becker Automotive Systems GmbH
15th Fl, 400 Atlantic Street
Stamford CT 06901
US

64-BC-58 (hex) Intel Corporate
64BC58 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

40-2E-71 (hex) Texas Instruments
402E71 (base
16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

6C-61-F4 (hex) SFR
6C61F4 (base 16) SFR
12 rue jean-philippe Rameau CS 80001
La plaine saint denis FRANCE 93634
FR

F4-90-CB (hex) IEEE Registration Authority
F490CB (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

78-81-CE (hex) China Mobile Iot Limited company

7881CE (base 16) China Mobile Iot Limited company
No. 8 Yangliu North Road, Yubei District, Chongqing, China
Chong Qing Chong Qing 401120
CN

44-5C-E9 (hex) Samsung Electronics Co.,Ltd
445CE9 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

C0-16-92 (hex) China Mobile Group Device Co.,Ltd.
C01692 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

BC-FF-21 (hex) Smart Code(shenzhen)Technology Co.,Ltd
BCFF21 (base
16) Smart Code(shenzhen)Technology Co.,Ltd
Room 1206, Satellite Building,2002 Keyuan Road, Nanshan
Shenzhen Guangdong (Province) 518000
CN

18-58-69 (hex) Sailer Electronic Co., Ltd
185869 (base 16) Sailer Electronic Co., Ltd
No. 6, Sanxi Road, Ximagou Industrial Park, Jianxi District
Luoyang Henan 471000
CN

BC-2D-EF (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
BC2DEF (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

38-17-30 (hex) Ulrich Lippert GmbH & Co KG
381730 (base 16) Ulrich Lippert GmbH & Co KG
Christian-Henkel-Str. 12
Berlin 12349
DE

98-C8-B8 (hex) vivo Mobile Communication Co., Ltd.
98C8B8 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

B8-D4-E7 (hex) Aruba, a Hewlett Packard Enterprise Company
B8D4E7
(base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

BC-09-63 (hex) Apple, Inc.
BC0963 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D8-4C-90 (hex) Apple, Inc.
D84C90 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

24-D0-DF (hex) Apple, Inc.
24D0DF (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

6C-4A-85 (hex) Apple, Inc.
6C4A85 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

28-F0-33 (hex) Apple, Inc.
28F033 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-81-75 (hex) Sagemcom Broadband SAS
F08175 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

1C-63-BF (hex) SHENZHEN BROADTEL TELECOM CO.,LTD
1C63BF (base 16) SHENZHEN BROADTEL TELECOM CO.,LTD
No.14-1,
Tongqing Road, Baolong street, Longgang District
ShenZhen GuangDong 518116

CN

AC-36-51 (hex) Jiangsu Hengtong Terahertz Technology Co., Ltd.
AC3651 (base 16) Jiangsu Hengtong Terahertz Technology Co., Ltd.
Room 1312, Beiyou Technology Building, Haidian District
Beijing Beijing 100876
CN

68-8F-C9 (hex) Zhuolian (Shenzhen) Communication Co., Ltd
688FC9 (base 16) Zhuolian (Shenzhen) Communication Co., Ltd
Shengli electromechanical Co., Ltd. 201, No.19, Xixiang section, Guangshen Road, Jingbei community, Xixiang street, Bao'an District
Shenzhen Shenzhen 518101
CN

D8-47-32 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
D84732 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

00-5E-0C (hex) HMD Global Oy
005E0C (base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo 02600
FI

B4-81-07
(hex) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
B48107 (base 16) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
Unit East Block22-24/F,Skyworth semiconductor design Bldg., Gaoxin Ave.4.S.,Nanshan District,Shenzhen,China
SHENZHEN GUANGDONG 518057
CN

70-66-55 (hex) AzureWave Technology Inc.
706655 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

68-4A-76 (hex) eero inc.
684A76 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

8C-68-3A (hex) HUAWEI TECHNOLOGIES CO.,LTD
8C683A (base 16) HUAWEI TECHNOLOGIES CO.,LTD

No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B4-6E-08 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B46E08 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C8-58-C0 (hex) Intel Corporate
C858C0 (base 16) Intel Corporate
Lot
8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

4C-B1-6C (hex) HUAWEI TECHNOLOGIES CO.,LTD
4CB16C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1-4,Huawei Industrial Base,Bantian,Longgang
ShenZhen GuangDong 518129
CN

0C-48-C6 (hex) CELESTICA INC.
0C48C6 (base 16) CELESTICA INC.
1900-5140 Yonge Street PO Box 42
Toronto Ontario M2N 6L7
CA

A4-29-85 (hex) Sichuan AI-Link Technology Co., Ltd.
A42985 (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou, Industrial Park
Mianyang Sichuan 622650
CN

28-64-B0 (hex) Huawei Device Co., Ltd.
2864B0 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

04-F1-69 (hex) Huawei Device Co., Ltd.
04F169 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

50-21-EC (hex) Huawei Device Co., Ltd.

5021EC (base 16) Huawei Device
Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

A0-43-B0 (hex) Hangzhou BroadLink Technology Co.,Ltd
A043B0 (base 16) Hangzhou BroadLink Technology Co.,Ltd
Room 101,1/F,Unit C,Building 1,No.57 Jiang'er Road,Changhe Street,Binjiang District,Hangzhou,Zhejiang,P.R.China
Hangzhou Zhejiang 310052
CN

D8-C5-61 (hex) CommFront Communications Pte Ltd
D8C561 (base 16) CommFront Communications Pte Ltd
No. 1 Yishun Industrial ST 1, #05-31 A'Posh BizHub
SG SG 768160
SG

60-D8-9C (hex) HMD Global Oy
60D89C (base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo 02600
FI

F8-2E-8E (hex) Nanjing Kechen Electric Co., Ltd.
F82E8E (base 16) Nanjing Kechen Electric Co., Ltd.
Room 202, Building 12, No. 50 Daguang road
Nanjing 210001
CN

B4-C9-B9 (hex) Sichuan AI-Link Technology Co., Ltd.
B4C9B9 (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou, Industrial
Park
Mianyang Sichuan 622650
CN

F0-46-3B (hex) Comcast Cable Corporation
F0463B (base 16) Comcast Cable Corporation
1800 Arch Street
Philadelphia PA 19103
US

F4-1C-95 (hex) BEIJING YUNYI TIMES TECHNOLOGY CO,.LTD
F41C95 (base 16) BEIJING YUNYI TIMES TECHNOLOGY CO,.LTD
Room 2005, 2f, building B, No.1 Kaituo Road, Shangdi Information Industry base, Haidian District
BEIJING 100085

CN

A0-68-7E (hex) ARRIS Group, Inc.
A0687E (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

A8-70-5D (hex) ARRIS Group, Inc.
A8705D (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

9C-97-89 (hex) 1MORE
9C9789 (base 16) 1MORE
TianliaoBuilding F14, New Materials Industrial Park, Xueyuan Blvd?Nanshan
Shenzhen Guangdong 518055
CN

78-6D-EB (hex) GE Lighting
786DEB (base 16) GE Lighting
1975 Noble Rd
East Cleveland OH 44112
US

88-E9-A4
(hex) Hewlett Packard Enterprise
88E9A4 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

28-63-BD (hex) APTIV SERVICES US, LLC
2863BD (base 16) APTIV SERVICES US, LLC
5725 Innovation Drive
Troy MI 48098
US

C4-02-E1 (hex) Khwahish Technologies Private Limited
C402E1 (base 16) Khwahish Technologies Private Limited
Plot # 42, Thirugnana Sambandhar Street, Srinivasa Nagar, Madipakkam
Chennai TamilNadu 600091
IN

F8-5B-3B (hex) ASKEY COMPUTER CORP
F85B3B (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST

NEW TAIPEI TAIWAN 23585
TW

C8-FA-84 (hex) Trusonus corp.
C8FA84 (base 16) Trusonus corp.
6F., No.42, Songjiang Rd., Zhongshan Dist
Taipei 10455
TW

8C-5A-C1 (hex) Huawei Device Co., Ltd.
8C5AC1 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

A8-5A-E0
(hex) Huawei Device Co., Ltd.
A85AE0 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

A4-B6-1E (hex) Huawei Device Co., Ltd.
A4B61E (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C4-FE-5B (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
C4FE5B (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

84-F8-83 (hex) Luminar Technologies
84F883 (base 16) Luminar Technologies
12601 Research Pkwy
Orlando FL 32828-7335
US

B4-4C-3B (hex) Zhejiang Dahua Technology Co., Ltd.
B44C3B (base 16) Zhejiang Dahua Technology Co., Ltd.
No.1199,Waterfront Road
Hangzhou Zhejiang 310053
CN

40-A2-DB (hex) Amazon Technologies Inc.
40A2DB (base 16) Amazon Technologies Inc.

P.O Box 8102
Reno NV 89507
US

C0-39-37
(hex) GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI
C03937 (base 16) GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI
Jinji West Road, Qianshan,
Zhuhai Guangdong 519070
CN

00-09-F3 (hex) WELL Communication Corp.
0009F3 (base 16) WELL Communication Corp.
11F, No.778, Chung Cheng Rd., Chung Ho C
Chung Ho 235
TW

A8-85-D7 (hex) Sangfor Technologies Inc.
A885D7 (base 16) Sangfor Technologies Inc.
block A1 ?nanshan ipark, No 1001, xueyuan road
Shenzhen 518100
CN

44-4A-DB (hex) Apple, Inc.
444ADB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

9C-A5-13 (hex) Samsung Electronics Co.,Ltd
9CA513 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

4C-6C-13 (hex) IoT Company Solucoes Tecnologicas Ltda
4C6C13 (base 16) IoT Company Solucoes Tecnologicas Ltda
Rua Jordao Schiavetto, 436 - Sala 6
Hortolandia Sao Paulo 13184-080
BR

30-90-48
(hex) Apple, Inc.
309048 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

94-24-B8 (hex) GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI
9424B8 (base 16) GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI
Jinji West Road, Qianshan,
Zhuhai Guangdong 519070
CN

CC-F4-11 (hex) Google, Inc.
CCF411 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

9C-2D-CF (hex) Shishi Tongyun Technology(Chengdu)Co.,Ltd.
9C2DCF (base 16) Shishi Tongyun Technology(Chengdu)Co.,Ltd.
No. 1268 Middle Section of Tianfu Avenue, Chengdu High-tech Zone, China (Sichuan) Pilot Free Trade Zone
Chengdu Sichuan 610017
CN

C8-C4-65 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C8C465 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

1C-43-63 (hex) HUAWEI TECHNOLOGIES CO.,LTD
1C4363 (base 16) HUAWEI TECHNOLOGIES
CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C4-67-D1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C467D1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

30-7E-CB (hex) SFR
307ECB (base 16) SFR
40/42 Quai du point du jour
Boulongne Billancourt Hauts de Seine 92659
FR

C8-03-F5 (hex) Ruckus Wireless
C803F5 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

F8-0F-F9 (hex) Google, Inc.
F80FF9 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

94-29-2F (hex) New H3C Technologies Co., Ltd
94292F (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

D4-9A-A0 (hex) VNPT TECHNOLOGY
D49AA0 (base 16) VNPT TECHNOLOGY
HoaLac Hi-Tech Park
HANOI HANOI 10000
VN

6C-F0-49
(hex) GIGA-BYTE TECHNOLOGY CO.,LTD.
6CF049 (base 16) GIGA-BYTE TECHNOLOGY CO.,LTD.
Pin-Jen City, Taoyuan, Taiwan, R.O.C.
Pin-Jen Taoyuan 324
TW

FC-AA-14 (hex) GIGA-BYTE TECHNOLOGY CO.,LTD.
FCAA14 (base 16) GIGA-BYTE TECHNOLOGY CO.,LTD.
Pin-Jen City, Taoyuan, Taiwan, R.O.C.
Pin-Jen Taoyuan 324
TW

04-33-C2 (hex) Intel Corporate
0433C2 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

44-46-87 (hex) Realme Chongqing MobileTelecommunications Corp Ltd
444687 (base 16) Realme Chongqing MobileTelecommunications Corp Ltd
No.24 Nichang Boulevard, Huixing Block, Yubei District, Chongqing.
Chongqing China 401120
CN

20-F3-75 (hex) ARRIS Group, Inc.
20F375 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121

US

84-BB-69 (hex) ARRIS Group, Inc.
84BB69 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

E8-26-89
(hex) Aruba, a Hewlett Packard Enterprise Company
E82689 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

B8-19-04 (hex) Nokia Shanghai Bell Co., Ltd.
B81904 (base 16) Nokia Shanghai Bell Co., Ltd.
No.388 Ning Qiao Road,Jin Qiao Pudong Shanghai
Shanghai 201206
CN

B4-A5-AC (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
B4A5AC (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

1C-78-4E (hex) China Mobile Iot Limited company
1C784E (base 16) China Mobile Iot Limited company
No. 8 Yangliu North Road, Yubei District, Chongqing, China
Chong Qing Chong Qing 401120
CN

E0-F4-42 (hex) Huawei Device Co., Ltd.
E0F442 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

F0-C4-2F (hex) Huawei Device Co., Ltd.
F0C42F
(base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C0-B4-7D (hex) Huawei Device Co., Ltd.
C0B47D (base 16) Huawei Device Co., Ltd.

No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

F4-A5-9D (hex) Huawei Device Co., Ltd.
F4A59D (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

E8-1B-4B (hex) amnimo Inc.
E81B4B (base 16) amnimo Inc.
M21-4, 2-9-32 Nakacho
Musashino-shi Tokyo 180-8750
JP

A4-B4-39 (hex) Cisco Systems, Inc
A4B439 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A0-B4-39 (hex) Cisco Systems, Inc
A0B439 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

10-5F-D4 (hex) Tendyron Corporation
105FD4 (base 16) Tendyron Corporation
Tendyron Building,Zhongguancun
NO.1 Park,Beiqing Road,Haidian District,Beijing,China
Beijing 100000
CN

84-3E-79 (hex) Shenzhen Belon Technology CO.,LTD
843E79 (base 16) Shenzhen Belon Technology CO.,LTD
Tsinghua Information
Shenzhen Guangdong 518052
CN

F8-4E-73 (hex) Apple, Inc.
F84E73 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

3C-CD-36 (hex) Apple, Inc.

3CCD36 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B4-26-5D (hex) Taicang T&W Electronics
B4265D (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

48-A5-E7 (hex) Nintendo Co.,Ltd
48A5E7 (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

88-12-3D (hex) Suzhou Aquila Solutions Inc.
88123D (base 16) Suzhou Aquila Solutions Inc.
Room 201, Building 3, 18 Dongchang Road, Suzhou Industry Park, Suzhou, PRC. Zip Code: 215000
Suzhou 215000
CN

48-21-0B
(hex) PEGATRON CORPORATION
48210B (base 16) PEGATRON CORPORATION
5F No. 76, Ligong St., Beitou District
Taipei City Taiwan 112
TW

00-68-EB (hex) HP Inc.
0068EB (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

7C-31-0E (hex) Cisco Systems, Inc
7C310E (base 16) Cisco Systems, Inc
80 West Tasman Dr.
San Jose CA 94568
US

D4-B7-09 (hex) zte corporation
D4B709 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

38-14-4E (hex) Fiberhome Telecommunication Technologies Co.,LTD
38144E (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

E0-CC-F8 (hex) Xiaomi Communications Co Ltd
E0CCF8 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

A0-1C-8D
(hex) HUAWEI TECHNOLOGIES CO.,LTD
A01C8D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F4-DE-AF (hex) HUAWEI TECHNOLOGIES CO.,LTD
F4DEAF (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

60-12-3C (hex) HUAWEI TECHNOLOGIES CO.,LTD
60123C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

48-4C-86 (hex) Huawei Device Co., Ltd.
484C86 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

54-F2-94 (hex) Huawei Device Co., Ltd.
54F294 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

84-C5-A6 (hex) Intel Corporate
84C5A6 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech
2/3
Kulim Kedah 09000

MY

5C-80-B6 (hex) Intel Corporate
5C80B6 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

F8-E4-E3 (hex) Intel Corporate
F8E4E3 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

AC-67-5D (hex) Intel Corporate
AC675D (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

F0-78-07 (hex) Apple, Inc.
F07807 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

08-2C-B6 (hex) Apple, Inc.
082CB6 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D8-CF-89 (hex) Beijing DoSee Science and Technology Co., Ltd.
D8CF89 (base 16) Beijing DoSee Science and Technology Co., Ltd.
Room 819-158,Floor 8,XinCaiLiao Chuangye Building,No.7 FengHuiZhong Road, Haidian District
Beijing 100094
CN

04-AA-E1 (hex) BEIJING MICROVISION TECHNOLOGY CO.,LTD
04AAE1
(base 16) BEIJING MICROVISION TECHNOLOGY CO.,LTD
ROOM 207-208,2/F,TAIXIANG COMMERCIAL BUILDING,NO.1A,LONGXIANG ROAD,HAIDIAN DISTRICT,BEIJING,P.R.C
BEIJING BEIJING 100191
CN

B4-E8-C9 (hex) XADA Technologies
B4E8C9 (base 16) XADA Technologies

No. 2-2, Xinyi Road Section 5, Lane 150, 1st Floor
Taipei City Taipei City 110
TW

6C-24-A6 (hex) vivo Mobile Communication Co., Ltd.
6C24A6 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

9C-5F-5A (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
9C5F5A (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

24-5A-B5 (hex) Samsung Electronics Co.,Ltd
245AB5 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C0-D2-DD (hex) Samsung Electronics Co.,Ltd
C0D2DD (base 16) Samsung Electronics
Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

94-2D-DC (hex) Samsung Electronics Co.,Ltd
942DDC (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

7C-B3-7B (hex) Qingdao Intelligent&Precise Electronics Co.,Ltd.
7CB37B (base 16) Qingdao Intelligent&Precise Electronics Co.,Ltd.
No.218 Qianwangang Road
Qingdao Shangdong 266510
CN

FC-DB-21 (hex) SAMSARA NETWORKS INC
FCDB21 (base 16) SAMSARA NETWORKS INC
525 York St
San Francisco CA 94110
US

E4-47-B3 (hex) zte corporation

E447B3 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

44-DC-4E (hex) ITEL MOBILE LIMITED
44DC4E (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

7C-21-0E (hex) Cisco Systems, Inc
7C210E (base
16) Cisco Systems, Inc
80 West Tasman Dr.
San Jose CA 94568
US

38-2A-19 (hex) Technica Engineering GmbH
382A19 (base 16) Technica Engineering GmbH
Leopoldstraße 236
Munich 80807
DE

74-D6-54 (hex) GINT
74D654 (base 16) GINT
9F, 47, Daehak-ro, Youngtong-gu
Suwon-si Gyeonggi-do 16225
KR

5C-B1-3E (hex) Sagemcom Broadband SAS
5CB13E (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

E4-AA-EA (hex) Liteon Technology Corporation
E4AAEA (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

A0-94-6A (hex) Shenzhen XGTEC Technology Co,.Ltd.
A0946A (base 16) Shenzhen XGTEC Technology Co,.Ltd.
Room 312, Changhong Science and Technology Building, No.18, South 12 Rd., High-tech Community, Yuehai Street, Nanshan District, Shenzhen
Shenzhen Guangdong 518057
CN

1C-2A-A3 (hex) Shenzhen
HongRui Optical Technology Co., Ltd.
1C2AA3 (base 16) Shenzhen HongRui Optical Technology Co., Ltd.
B#2F Shuangjinhui Industrial Park, Yonghe Road, Heping Village, Fuyong Town, Bao'an Dis
Shenzhen Guangdong 518000
CN

38-8E-7A (hex) AUTOIT
388E7A (base 16) AUTOIT
212, Gasan digital 1-ro
Seoul Geumcheon-gu 08502
KR

9C-31-C3 (hex) SKY UK LIMITED
9C31C3 (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

F4-E5-F2 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F4E5F2 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

54-13-10 (hex) HUAWEI TECHNOLOGIES CO.,LTD
541310 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

8C-E5-EF (hex) HUAWEI TECHNOLOGIES CO.,LTD
8CE5EF (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan
Lake Technology Park
Dongguan 523808
CN

B8-3A-5A (hex) Aruba, a Hewlett Packard Enterprise Company
B83A5A (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

F0-EF-86 (hex) Google, Inc.
F0EF86 (base 16) Google, Inc.
1600 Amphitheatre Parkway

Mountain View CA 94043
US

E4-C0-CC (hex) China Mobile Group Device Co.,Ltd.
E4C0CC (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

48-79-4D (hex) Samsung Electronics Co.,Ltd
48794D (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

18-F9-C4 (hex) BAE Systems
18F9C4 (base 16) BAE Systems
21 continental boulevard
Merrimack NH 03054
US

60-AB-D2 (hex) Bose Corporation
60ABD2 (base 16) Bose Corporation
The Mountain
Framingham MA 01701-9168
US

4C-71-0D (hex) Cisco
Systems, Inc
4C710D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

4C-71-0C (hex) Cisco Systems, Inc
4C710C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A4-CD-23 (hex) Shenzhenshi Xinzhongxin Co., Ltd
A4CD23 (base 16) Shenzhenshi Xinzhongxin Co., Ltd
Building A3, Donghuan Industrial Zone, Nanpu Road, Shajing Town, Baoan District
Shenzhen Guangdong 518125
CN

E0-1F-0A (hex) Xslent Energy Technologies. LLC
E01F0A (base 16) Xslent Energy Technologies. LLC

7428 Redwood Blvd
Novato CA 94945
US

C0-DC-DA (hex) Samsung Electronics Co.,Ltd
C0DCDA (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

04-B4-29 (hex) Samsung Electronics Co.,Ltd
04B429 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

E4-67-1E (hex) SHEN ZHEN NUO XIN CHENG TECHNOLOGY co.,
Ltd.
E4671E (base 16) SHEN ZHEN NUO XIN CHENG TECHNOLOGY co., Ltd.
Building A2 and 1 F/L, Building A1, 9 Wugang Rd, Xikeng Village, Xikeng Community, Henggang Sub-district, Longgang District
Shenzhen 518100
CN

68-27-19 (hex) Microchip Technology Inc.
682719 (base 16) Microchip Technology Inc.
2355 W. Chandler Blvd.
Chandler AZ 85224
US

24-C1-7A (hex) BEIJING IACTIVE NETWORK CO.,LTD
24C17A (base 16) BEIJING IACTIVE NETWORK CO.,LTD
Room 525, Yiquanhui Building, No. 35 Shangdi East Road, Haidian District
BEIJING 100085
CN

A4-C9-39 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
A4C939 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

34-D7-72 (hex) Xiamen Yudian Automation Technology Co., Ltd
34D772 (base 16) Xiamen Yudian Automation Technology Co., Ltd
No. 17 North Huoju Rd., Huoju Park, Huoju Hi-Tech District
XIAMEN
FUJIAN 361000
CN

3C-86-D1 (hex) vivo Mobile Communication Co., Ltd.
3C86D1 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

30-1B-97 (hex) Lierda Science & Technology Group Co.,Ltd
301B97 (base 16) Lierda Science & Technology Group Co.,Ltd
Lierda Science Park?No.1326 WenyiWestRoad
Hangzhou ZheJiang 311121
CN

74-DA-88 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
74DA88 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

CC-32-E5 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
CC32E5 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

1C-3B-F3 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
1C3BF3 (base 16) TP-LINK
TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

2C-00-F7 (hex) XOS
2C00F7 (base 16) XOS
15 Tech Valley Drive
East Greenbush NY 12061
US

2C-D2-E3 (hex) Guangzhou Aoshi Electronic Co.,Ltd
2CD2E3 (base 16) Guangzhou Aoshi Electronic Co.,Ltd
B1,Huachuang industrial park,Jinshan Avenue,Panyu District
Guangzhou Guangdong 511450
CN

14-59-C3 (hex) Creative Chips GmbH
1459C3 (base 16) Creative Chips GmbH
Im Bubenstück 1
Bingen Rheinland-Pfalz 55411

DE

7C-8A-E1 (hex) COMPAL INFORMATION (KUNSHAN) CO., LTD.
7C8AE1 (base 16) COMPAL INFORMATION (KUNSHAN) CO., LTD.
NO. 25, THE 3RD Street KUNSHAN EXPORT PROCESSING ZONE
KUNSHAN SUZHOU 215300
CN

C8-63-FC (hex) ARRIS Group, Inc.
C863FC (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

54-E4-A9
(hex) BHR Tech GmbH
54E4A9 (base 16) BHR Tech GmbH
Georg-Franz-Koller-Straße 18
Bisamberg 2102
AT

20-80-58 (hex) Ciena Corporation
208058 (base 16) Ciena Corporation
7035 Ridge Road
Hanover MD 21076
US

68-4A-AE (hex) HUAWEI TECHNOLOGIES CO.,LTD
684AAE (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

60-D7-55 (hex) HUAWEI TECHNOLOGIES CO.,LTD
60D755 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

1C-AE-CB (hex) HUAWEI TECHNOLOGIES CO.,LTD
1CAECB (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

4C-F1-9E (hex) Groupe Atlantic
4CF19E (base 16) Groupe Atlantic
Ideal Boilers, National Ave

Hull East Yorkshire HU5 4JB
GB

04-ED-33 (hex) Intel Corporate
04ED33
(base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

20-36-D7 (hex) Shanghai Reacheng Communication Technology Co.,Ltd
2036D7 (base 16) Shanghai Reacheng Communication Technology Co.,Ltd
No. 80, Lane 1505 Zuchongzhi Road
Shanghai Shanghai 201203
CN

94-62-69 (hex) ARRIS Group, Inc.
946269 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

A8-C2-52 (hex) Huawei Device Co., Ltd.
A8C252 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

A0-41-47 (hex) Huawei Device Co., Ltd.
A04147 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

1C-CC-D6 (hex) Xiaomi Communications Co Ltd
1CCCD6 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

A4-45-CD
(hex) IoT Diagnostics
A445CD (base 16) IoT Diagnostics
10052 Commerce Park Drive
Cincinnati OH 45246
US

10-63-C8 (hex) Liteon Technology Corporation

1063C8 (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

7C-51-89 (hex) SG Wireless Limited
7C5189 (base 16) SG Wireless Limited
RM 504 5/F Sun Fung Industrial Building 8-12 Ma Kok Street
Tsuen Wan NA
HK

94-D5-05 (hex) Fiberhome Telecommunication Technologies Co.,LTD
94D505 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

7C-B2-7D (hex) Intel Corporate
7CB27D (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

7C-C9-26 (hex) Wuhan GreeNet Information Service Co.,Ltd.
7CC926 (base 16) Wuhan GreeNet Information Service Co.,Ltd.
4-6F, Building 2, Phase 6, Optical Valley Software Park,
East Lake High-Tech Development Zone
Wuhan 430000
CN

68-07-0A (hex) TPVision Europe B.V
68070A (base 16) TPVision Europe B.V
Prins Bernhardplein 200
Amsterdam Noord-Holland 1097 JB
NL

4C-EB-BD (hex) CHONGQING FUGUI ELECTRONICS CO.,LTD.
4CEBBD (base 16) CHONGQING FUGUI ELECTRONICS CO.,LTD.
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

70-87-9E (hex) Beken Corporation
70879E (base 16) Beken Corporation
Building 41, Capital of Tech Leaders, 1387 Zhangdong Road, Zhangjiang High-Tech Park, Pudong New District
Shanghai 201203
CN

04-4A-6C (hex) HUAWEI TECHNOLOGIES CO.,LTD
044A6C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

38-FB-14 (hex) HUAWEI TECHNOLOGIES CO.,LTD
38FB14 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology
Park
Dongguan 523808
CN

F0-E4-A2 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F0E4A2 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B4-50-62 (hex) EmBestor Technology Inc.
B45062 (base 16) EmBestor Technology Inc.
7F, No.1, Chin-Shan 8th St
Hsin-Chu, Taiwan 300
TW

5C-75-AF (hex) Fitbit, Inc.
5C75AF (base 16) Fitbit, Inc.
199 Fremont Street, 14th Fl
San Francisco CA 94105
US

58-20-59 (hex) Xiaomi Communications Co Ltd
582059 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

90-27-2B (hex) Algorab S.r.l.
90272B (base 16) Algorab S.r.l.
Via Luigi Negrelli, 21/13
Lavis TN 38015
IT

4C-BC-B4 (hex) ABB SpA - DIN Rail
4CBCB4 (base 16) ABB SpA - DIN Rail
V.le dell'industria 18
Vittuone Milan 20010
IT

AC-77-13
(hex) Honeywell Safety Products (Shanghai) Co.,Ltd
AC7713 (base 16) Honeywell Safety Products (Shanghai) Co.,Ltd
430 Li Bing Road Zhang Jiang Hi-Tech ParkPudong New Area
Shanghai Shanghai 201203
CN

08-84-9D (hex) Amazon Technologies Inc.
08849D (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

CC-CC-CC (hex) Silicon Laboratories
CCCCCC (base 16) Silicon Laboratories
7000 W. William Cannon Dr.
Austin TX 78735
US

5C-D1-35 (hex) Xtreme Power Systems
5CD135 (base 16) Xtreme Power Systems
2440 Kiowa Blvd. N. #102
Lake Havasu City AZ 86403
US

78-69-D4 (hex) Shenyang Vibrotech Instruments Inc.
7869D4 (base 16) Shenyang Vibrotech Instruments Inc.
No 23-2 Yunfeng St. Tiexi Dist.
Shenyang Liaoning 110021
CN

08-26-97 (hex) Zyxel Communications Corporation
082697 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science
Park
Hsichu Taiwan 300
TW

74-E1-B6 (hex) Apple, Inc.
74E1B6 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

24-A5-2C (hex) HUAWEI TECHNOLOGIES CO.,LTD
24A52C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park

Dongguan 523808
CN

48-27-59 (hex) Levven Electronics Ltd.
482759 (base 16) Levven Electronics Ltd.
9741 54 Ave NW
Edmonton Alberta T6E 5J4
CA

D4-AD-BD (hex) Cisco Systems, Inc
D4ADBD (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

64-CB-9F (hex) TECNO MOBILE LIMITED
64CB9F (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

4C-FB-FE (hex) Sercomm Japan Corporation
4CFBFE (base 16) Sercomm Japan Corporation
8F, 3-1, YuanQu St., NanKang,
Taipei 115, Taiwan
Taipei 115
TW

C0-CB-F1 (hex) Mobiwire Mobiles (NingBo) Co., LTD
C0CBF1 (base 16) Mobiwire Mobiles (NingBo) Co., LTD
No.999 Dacheng East Road, Fenghua District, Ningbo City , Zhejiang Province, PRC
Ningbo Zhejiang 315500
CN

E4-7E-9A (hex) zte corporation
E47E9A (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

2C-16-BD (hex) IEEE Registration Authority
2C16BD (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

30-A8-89 (hex) DECIMATOR DESIGN

30A889 (base 16) DECIMATOR DESIGN
UNIT 5 / 11 PRECISION PLACE
VINEYARD NSW 2765
AU

68-3B-78 (hex) Cisco Systems, Inc
683B78 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

F4-CE-36 (hex) Nordic Semiconductor ASA
F4CE36 (base 16) Nordic Semiconductor ASA
Otto Nielsens veg 12
Trondheim
NO-7052
NO

FC-7D-6C (hex) HYESUNG TECHWIN Co., Ltd
FC7D6C (base 16) HYESUNG TECHWIN Co., Ltd
#1509,545,Dunchon-daero, Jungwon-gu
Seongnam Gyeonggi-do 13215
KR

1C-D5-E2 (hex) Shenzhen YOUHUA Technology Co., Ltd
1CD5E2 (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

00-24-E9 (hex) Samsung Electronics Co.,Ltd
0024E9 (base 16) Samsung Electronics Co.,Ltd
416, Maetan 3Dong, Yeongtong-Gu
Suwon City Geyonggi Do 443-742
KR

24-40-AE (hex) NIIC Technology Co., Ltd.
2440AE (base 16) NIIC Technology Co., Ltd.
Room 8218, Building 3#B, No. 268 Furong Road, Jingkai District
Hefei 230601
CN

F4-0E-01 (hex) Apple, Inc.
F40E01 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

14-95-CE (hex) Apple, Inc.
1495CE (base 16) Apple, Inc.
1 Infinite Loop
Cupertino
CA 95014
US

50-DE-06 (hex) Apple, Inc.
50DE06 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

CC-66-0A (hex) Apple, Inc.
CC660A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

FC-1D-43 (hex) Apple, Inc.
FC1D43 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

18-A4-A9 (hex) Vanu Inc.
18A4A9 (base 16) Vanu Inc.
81 Hartwell Ave
Lexington MA 02421
US

80-E8-2C (hex) Hewlett Packard
80E82C (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston TX 77070
US

B4-A2-EB (hex) IEEE Registration Authority
B4A2EB (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

68-AB-09 (hex) Nokia
68AB09 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

5C-A1-E0 (hex) EmbedWay Technologies
5CA1E0 (base 16) EmbedWay Technologies
6F, Building 8, No 2388,
Chenhang Rd, Shanghai
Shanghai 201114
CN

C4-C6-03 (hex) Cisco Systems, Inc
C4C603 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

BC-A1-3A (hex) SES-imagotag
BCA13A (base 16) SES-imagotag
St.-Peter-Gürtel 10b
Graz 8010
AT

7C-B5-9B (hex) TP-LINK TECHNOLOGIES CO.,LTD.
7CB59B (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

1C-B7-96 (hex) HUAWEI TECHNOLOGIES CO.,LTD
1CB796 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

38-47-BC (hex) HUAWEI TECHNOLOGIES CO.,LTD
3847BC (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

54-92-09 (hex) HUAWEI TECHNOLOGIES CO.,LTD
549209 (base 16) HUAWEI
TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

74-59-09 (hex) HUAWEI TECHNOLOGIES CO.,LTD
745909 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park

Dongguan 523808
CN

7C-94-2A (hex) HUAWEI TECHNOLOGIES CO.,LTD
7C942A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

2C-4F-52 (hex) Cisco Systems, Inc
2C4F52 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

28-23-F5 (hex) China Mobile (Hangzhou) Information Technology Co., Ltd.
2823F5 (base 16) China Mobile (Hangzhou) Information Technology Co., Ltd.
No. 1600 Yuhangtang Road, Wuchang Street, Yuhang District
Hangzhou Zhejiang 310000
CN

F0-10-AB (hex) China Mobile (Hangzhou) Information Technology Co., Ltd.
F010AB (base 16) China Mobile
(Hangzhou) Information Technology Co., Ltd.
No. 1600 Yuhang Tong Road, Wuchang Street, Yuhang District
Hangzhou Zhejiang 310000
CN

B4-DC-09 (hex) Guangzhou Dawei Communication Co.,Ltd
B4DC09 (base 16) Guangzhou Dawei Communication Co.,Ltd
Zone A 906#, International Business Incubator, No.3 Juquan Road, Huangpu District
Guangzhou Guangdong 510660
CN

00-F6-20 (hex) Google, Inc.
00F620 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

F4-33-28 (hex) CIMCON Lighting Inc.
F43328 (base 16) CIMCON Lighting Inc.
35 Crosby Drive
Bedford MA 01730
US

5C-5A-C7 (hex) Cisco Systems, Inc
5C5AC7 (base 16) Cisco Systems, Inc

80 West Tasman Drive
San Jose CA 94568
US

B4-60-77 (hex) Sichuan Changhong Electric Ltd.
B46077 (base 16) Sichuan Changhong Electric Ltd.
No.35,East MianXin Road,MianYang,Sichaun,China.
MianYang SiChuan PRC 621000
CN

00-ED-B8
(hex) KYOCERA Corporation
00EDB8 (base 16) KYOCERA Corporation
30 Hoji
Kitami, Hokkaido 099-1595
JP

9C-99-CD (hex) Voippartners
9C99CD (base 16) Voippartners
Via di Passolombardo 35
Rome 00133
IT

C8-D6-9D (hex) Arab International Optronics
C8D69D (base 16) Arab International Optronics
El Salam St.
El Salam City Cairo 11371
EG

40-5B-D8 (hex) CHONGQING FUGUI ELECTRONICS CO.,LTD.
405BD8 (base 16) CHONGQING FUGUI ELECTRONICS CO.,LTD.
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

B8-91-C9 (hex) Handreamnet
B891C9 (base 16) Handreamnet
#1203 Ace High-end Tower II, 61, Digital-ro 26-gil, Guro-Gu
Seoul 08389
KR

C8-A7-76 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C8A776 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

54-EC-2F (hex) Ruckus

Wireless
54EC2F (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

00-25-7E (hex) NEW POS TECHNOLOGY LIMITED
00257E (base 16) NEW POS TECHNOLOGY LIMITED
6FRM, 6F, China Economic Trade Building
Shenzhen Guangdong 518000
CN

A4-00-E2 (hex) HUAWEI TECHNOLOGIES CO.,LTD
A400E2 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B4-C4-FC (hex) Xiaomi Communications Co Ltd
B4C4FC (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

FC-BD-67 (hex) Arista Networks
FCBD67 (base 16) Arista Networks
5453 Great America Parkway
Santa Clara CA 95054
US

98-86-5D (hex) Nokia Shanghai Bell Co., Ltd.
98865D (base 16) Nokia Shanghai Bell Co., Ltd.
No.388 Ning Qiao Road,Jin Qiao Pudong Shanghai
Shanghai 201206
CN

28-99-C7
(hex) LINDSAY BROADBAND INC
2899C7 (base 16) LINDSAY BROADBAND INC
2035 2 FISHER DRIVE
PETERBOROUGH Ontario K9J 6X6
CA

AC-DB-48 (hex) ARRIS Group, Inc.
ACDB48 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

68-A0-3E (hex) HUAWEI TECHNOLOGIES CO.,LTD
68A03E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B8-C3-85 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B8C385 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

4C-E9-E4 (hex) New H3C Technologies Co., Ltd
4CE9E4 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

C8-0D-32 (hex) Holoplot GmbH
C80D32 (base 16) Holoplot GmbH
Ringbahnstr. 12, Hof A2
Berlin 12099
DE

1C-64-99 (hex) Comtrend
Corporation
1C6499 (base 16) Comtrend Corporation
3F-1, 10 Lane 609, Chongxin Road, Section 5,
New Taipei City, Taiwan 24159
TW

48-77-46 (hex) Calix Inc.
487746 (base 16) Calix Inc.
2777 Orchard Pkwy
San Jose CA 95131
US

F8-AE-27 (hex) John Deere Electronic Solutions
F8AE27 (base 16) John Deere Electronic Solutions
1441 44th St N
Fargo ND 58102
US

C4-F7-D5 (hex) Cisco Systems, Inc
C4F7D5 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568

US

D0-57-94 (hex) Sagemcom Broadband SAS
D05794 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

74-45-CE (hex) CRESYN
7445CE (base 16) CRESYN
8-22,Jamwon-dong
Seoul Seocho-Gu #137-902
KR

04-D9-F5 (hex) ASUSTek COMPUTER INC.
04D9F5 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

10-DC-4A
(hex) Fiberhome Telecommunication Technologies Co.,LTD
10DC4A (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

4C-BC-48 (hex) Cisco Systems, Inc
4CBC48 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

48-D8-75 (hex) China TransInfo Technology Co., Ltd
48D875 (base 16) China TransInfo Technology Co., Ltd
Qianfang Building, Phase I, Zhongguancun Software Park, 8 Wangxi Road, Haidian District
Beijing 100085
CN

30-50-FD (hex) Skyworth Digital Technology(Shenzhen) Co.,Ltd
3050FD (base 16) Skyworth Digital Technology(Shenzhen) Co.,Ltd
7F,Block A,Skyworth Building,
Shenzhen Guangdong 518057
CN

88-EF-16 (hex) ARRIS Group, Inc.
88EF16 (base 16) ARRIS Group, Inc.
6450 Sequence Drive

San Diego CA 92121
US

8C-A9-6F (hex) D&M Holdings Inc.
8CA96F (base 16) D&M Holdings Inc.
D&M Building, 2-1
Nisshin-cho
Kawasaki-shi Kanagawa 210-8569
JP

98-B8-BA (hex) LG Electronics (Mobile Communications)
98B8BA (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

7C-D6-61 (hex) Xiaomi Communications Co Ltd
7CD661 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

B0-FD-0B (hex) IEEE Registration Authority
B0FD0B (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

00-40-BC (hex) ALGORITHMICS LTD.
0040BC (base 16) ALGORITHMICS LTD.
3 DRAYTON PARK
ENGLAND
GB

00-40-65 (hex) GTE SPACENET
004065 (base 16) GTE SPACENET
1700 OLD MEADOW ROAD
MCLEAN VA 22102
US

18-20-D5 (hex) ARRIS Group, Inc.
1820D5 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

F4-2E-7F (hex) Aruba,

a Hewlett Packard Enterprise Company
F42E7F (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

B4-CC-04 (hex) Piranti
B4CC04 (base 16) Piranti
126, Beolmal-ro
Dongan-gu, Anyang-si, Gyeonggi-do 14057
KR

38-D2-CA (hex) Zhejiang Tmall Technology Co., Ltd.
38D2CA (base 16) Zhejiang Tmall Technology Co., Ltd.
Ali Center,No.3331 Keyuan South RD (Shenzhen bay), Nanshan District, Shenzhen Guangdong province
Shenzhen GuangDong 518000
CN

10-9E-3A (hex) Zhejiang Tmall Technology Co., Ltd.
109E3A (base 16) Zhejiang Tmall Technology Co., Ltd.
Ali Center,No.3331 Keyuan South RD (Shenzhen bay), Nanshan District,
Shenzhen Guangdong 518000
CN

78-DA-07 (hex) Zhejiang Tmall Technology Co., Ltd.
78DA07 (base 16) Zhejiang Tmall Technology Co., Ltd.
Ali Center,No.3331 Keyuan South RD (Shenzhen bay), Nanshan District,
Shenzhen Guangdong 518000
CN

44-A6-1E
(hex) INGRAM MICRO SERVICES
44A61E (base 16) INGRAM MICRO SERVICES
100 CHEMIN DE BAILLOT
MONTAUBAN 82000
FR

0C-E9-9A (hex) ATLS ALTEC
0CE99A (base 16) ATLS ALTEC
3 RUE DE LA GUIVERNONE ZI DU VERT GALANT
ST OUEN L AUMONE 95310
FR

4C-11-AE (hex) Espressif Inc.
4C11AE (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

8C-89-FA (hex) Zhejiang Hechuan Technology Co., Ltd.
8C89FA (base 16) Zhejiang Hechuan Technology Co., Ltd.
No. 9, Fucai Road, Longyou Industrial Zone
Quzhou Zhejiang 324000
CN

D4-78-9B (hex) Cisco Systems, Inc
D4789B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

48-3F-E9 (hex) HUAWEI TECHNOLOGIES CO.,LTD
483FE9 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

14-3C-C3 (hex) HUAWEI TECHNOLOGIES
CO.,LTD
143CC3 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A8-E5-44 (hex) HUAWEI TECHNOLOGIES CO.,LTD
A8E544 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

50-C4-DD (hex) BUFFALO.INC
50C4DD (base 16) BUFFALO.INC
AKAMONDORI Bld.,30-20,Ohsu 3-chome,Naka-ku
Nagoya Aichi Pref. 460-8315
JP

90-4D-C3 (hex) Flonidan A/S
904DC3 (base 16) Flonidan A/S
Islandsvej 29
Horsens 8700
DK

00-0D-F1 (hex) IONIX INC.
000DF1 (base 16) IONIX INC.
Ssangyong IT Twin Tower 604, 442-17, Sangdaewon-dong, Jungwon-gu,
Seongnam-si Gyeonggi-do 462-120

KR

00-07-7C (hex) Westermo Network Technologies AB
00077C (base 16) Westermo Network Technologies AB
Stora Sundby
Sweden SE-640 40
SE

E0-02-A5 (hex) ABB Robotics
E002A5 (base 16) ABB
Robotics
Hydrovägen 10
Västerås 721 68
SE

B8-D5-26 (hex) Zyxel Communications Corporation
B8D526 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

EC-AD-E0 (hex) D-Link International
ECADE0 (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

F0-B9-68 (hex) ITEL MOBILE LIMITED
F0B968 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

04-E5-6E (hex) THUB Co., ltd.
04E56E (base 16) THUB Co., ltd.
#607 2, Busandaehak-ro 63beon-gil, Geumjeong-gu
Busan 46241
KR

1C-7F-2C (hex) HUAWEI TECHNOLOGIES CO.,LTD
1C7F2C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

88-BC-C1 (hex) HUAWEI TECHNOLOGIES
CO.,LTD
88BCC1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD

No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

8C-42-6D (hex) HUAWEI TECHNOLOGIES CO.,LTD
8C426D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A8-BF-3C (hex) HDV Phoelectron Technology Limited
A8BF3C (base 16) HDV Phoelectron Technology Limited
Room 1103, Hang Seng Mongkok Building, 677 Nathan Road,Mongkok
Kowloon Hong Kong 518103
CN

D4-F5-27 (hex) SIEMENS AG
D4F527 (base 16) SIEMENS AG
Oestliche Rheinbrückenstraße 50
Karlsruhe Baden-Württemberg 76181
DE

1C-BF-CE (hex) Shenzhen Century Xinyang Technology Co., Ltd
1CBFCE (base 16) Shenzhen Century Xinyang Technology Co., Ltd
3F, North Building, Bantian High-tech industrial Zone, No. 2 of Bell Road
Shenzhen Guangdong 518129
CN

F8-30-02 (hex) Texas Instruments
F83002
(base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

A8-A1-59 (hex) ASRock Incorporation
A8A159 (base 16) ASRock Incorporation
2F., No. 37, Sec. 2, Jhongyang S. Rd., Beitou District,
Taipei 112
TW

54-62-E2 (hex) Apple, Inc.
5462E2 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

14-9D-99 (hex) Apple, Inc.

149D99 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B8-B2-F8 (hex) Apple, Inc.
B8B2F8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

98-46-0A (hex) Apple, Inc.
98460A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B8-5D-0A (hex) Apple, Inc.
B85D0A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

7C-9A-1D (hex) Apple, Inc.
7C9A1D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

10-30-25 (hex) Apple, Inc.
103025 (base 16) Apple,
Inc.
1 Infinite Loop
Cupertino CA 95014
US

70-AC-D7 (hex) Shenzhen YOUHUA Technology Co., Ltd
70ACD7 (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

20-2A-C5 (hex) Petite-En
202AC5 (base 16) Petite-En
1, Gwanak-ro, Gwanak-gu
Seoul 08826
KR

14-7B-AC (hex) Nokia
147BAC (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

CC-DC-55 (hex) Dragonchip Limited
CCDC55 (base 16) Dragonchip Limited
Room 601-2, 6/F, IC Development Centre, No. 6 Science Park West Avenue, Hong Kong Science Park, Shatin, N.T.
Hong Kong NA
HK

A4-C3-F0 (hex) Intel Corporate
A4C3F0 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

74-5B-C5 (hex) IEEE Registration Authority
745BC5 (base 16) IEEE Registration Authority
445 Hoes
Lane
Piscataway NJ 08554
US

94-40-C9 (hex) Hewlett Packard Enterprise
9440C9 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

90-6D-05 (hex) BXB ELECTRONICS CO., LTD
906D05 (base 16) BXB ELECTRONICS CO., LTD
6F.-1, NO.288-5, Xinya Rd., Qianzhen Dist.
Kaohsiung 80673
TW

D4-BB-C8 (hex) vivo Mobile Communication Co., Ltd.
D4BBC8 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

48-95-07 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
489507 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

28-FF-B2 (hex) Toshiba Corp.
28FFB2 (base 16) Toshiba Corp.
1-1 Shibaura 1-Chome, Minato-Ku
Tokyo 105-8001
JP

1C-60-D2 (hex) Fiberhome Telecommunication Technologies Co.,LTD
1C60D2 (base 16) Fiberhome Telecommunication
Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

F4-B5-AA (hex) zte corporation
F4B5AA (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

E8-AC-AD (hex) zte corporation
E8ACAD (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

44-5D-5E (hex) SHENZHEN Coolkit Technology CO.,LTD
445D5E (base 16) SHENZHEN Coolkit Technology CO.,LTD
B09 2nd Floor, T6 ArtZone XiLi, Nanshan Dist
shenzhen guangdong 518110
CN

A0-41-A7 (hex) NL Ministry of Defense
A041A7 (base 16) NL Ministry of Defense
PO Box 10000
Noord Holland 1780 CA Den Helder
NL

D8-55-75 (hex) Samsung Electronics Co.,Ltd
D85575 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D4-11-A3 (hex) Samsung Electronics Co.,Ltd
D411A3 (base 16) Samsung
Electronics Co.,Ltd
#94-1, Imsoo-Dong

Gumi Gyeongbuk 730-350
KR

04-BA-8D (hex) Samsung Electronics Co.,Ltd
04BA8D (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

08-36-C9 (hex) NETGEAR
0836C9 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

E4-46-DA (hex) Xiaomi Communications Co Ltd
E446DA (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

1C-12-B0 (hex) Amazon Technologies Inc.
1C12B0 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

4C-BC-98 (hex) IEEE Registration Authority
4CBC98 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

58-D9-C3 (hex) Motorola Mobility LLC, a Lenovo Company
58D9C3 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise
Mart Plaza
Chicago IL 60654
US

2C-F4-32 (hex) Espressif Inc.
2CF432 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

64-73-66 (hex) Shenzhen Siera Technology Ltd
647366 (base 16) Shenzhen Siera Technology Ltd

Room 2039, Shenhai Building, Wanzhong Village, Bulong Road, Minzhi, Longhua district, City: Shenzhen
Shenzhen Guangdong 518131
CN

E0-5A-9F (hex) IEEE Registration Authority
E05A9F (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

2C-55-7C (hex) Shenzhen YOUHUA Technology Co., Ltd
2C557C (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

F4-BC-DA (hex) Shenzhen Jingxun Software Telecommunication Technology Co.,Ltd
F4BCDA (base 16) Shenzhen Jingxun Software Telecommunication Technology Co.,Ltd
3/F,A5 Building Zhiyuan Community No.1001,Xueyuan Road Nanshan District
Shenzhen Guangdong 518055
CN

00-09-15 (hex) CAS Corp.
000915 (base 16) CAS Corp.
#19, Ganap-Ri
Yangju-Gun Kyunggi-Do 482-841
KR

8C-5A-F8 (hex) Beijing Xiaomi Electronics Co., Ltd.
8C5AF8 (base 16) Beijing Xiaomi Electronics Co., Ltd.
Building C, QingHe ShunShiJiaYe Technology Park, #66 ZhuFang Rd, HaiDian District
Beijing Beijing 10085
CN

D4-58-00 (hex) Fiberhome Telecommunication Technologies Co.,LTD
D45800 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

74-4D-28 (hex) Routerboard.com
744D28 (base 16) Routerboard.com
Mikrotikls SIA
Riga Riga LV1009
LV

A4-11-62 (hex) Arlo Technology

A41162 (base 16) Arlo Technology
3030 Orchard Parkway
San Jose CA 95134
US

04-1E-FA (hex) BISSELL Homecare, Inc.
041EFA (base 16) BISSELL
Homecare, Inc.
2345 Walker Ave NW
Grand Rapids MI 49544
US

2C-73-A0 (hex) Cisco Systems, Inc
2C73A0 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

44-3E-07 (hex) Electrolux
443E07 (base 16) Electrolux
Corso Lino Zanussi 24
Porcia PORDENONE 33080
IT

90-84-2B (hex) LEGO System A/S
90842B (base 16) LEGO System A/S
Aastvej 1
Billund DK-7190
DK

00-26-7E (hex) PARROT SA
00267E (base 16) PARROT SA
174 Quai de Jemmapes
Paris 75010
FR

D4-7B-35 (hex) NEO Monitors AS
D47B35 (base 16) NEO Monitors AS
PoBox 384
Loerenskog Loerenskog 1471
NO

00-08-78 (hex) Benchmark Storage Innovations
000878 (base 16) Benchmark Storage Innovations
3122 Sterling Circle
Boulder CO 80301
US

6C-F3-7F (hex) Aruba, a Hewlett Packard Enterprise Company
6CF37F (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa
Clara CA 95054
US

18-64-72 (hex) Aruba, a Hewlett Packard Enterprise Company
186472 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

00-17-A0 (hex) RoboTech srl
0017A0 (base 16) RoboTech srl
Via Mazzini 82
Sarzana (SP) I-19038
IT

00-0A-A8 (hex) ePipe Pty. Ltd.
000AA8 (base 16) ePipe Pty. Ltd.
P.O. Box 1428
Brisbane Queensland 4066
AU

00-29-C2 (hex) Cisco Systems, Inc
0029C2 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

18-7C-0B (hex) Ruckus Wireless
187C0B (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

48-5D-36 (hex) Verizon
485D36 (base 16) Verizon
One Verizon Way
Basking Ridge NJ 07030
US

20-C0-47 (hex) Verizon
20C047 (base 16) Verizon
One Verizon Way
Basking Ridge 07030
US

34-6B-46 (hex) Sagemcom Broadband SAS
346B46
(base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

84-85-E6 (hex) Guangdong Asano Technology CO.,Ltd.
8485E6 (base 16) Guangdong Asano Technology CO.,Ltd.
Changsheng Road, Songxia Industrial Park, Songgang, Shishan Town, Nanhai
Foshan Guangdong, China. 528200
CN

3C-83-75 (hex) Microsoft Corporation
3C8375 (base 16) Microsoft Corporation
1 Microsoft Way
Redmond Washington 98052
FI

84-D4-7E (hex) Aruba, a Hewlett Packard Enterprise Company
84D47E (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

24-DE-C6 (hex) Aruba, a Hewlett Packard Enterprise Company
24DEC6 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

78-A7-EB (hex) 1MORE
78A7EB (base 16) 1MORE
TianliaoBuilding F14
New Materials Industrial Park,Xueyuan Blvd
Shenzhen, Nanshan District 518005
CN

7C-60-4A (hex) Avelon
7C604A (base 16) Avelon
Bändliweg 20
Zurich 8048
CH

70-2B-1D (hex) E-Domus International Limited
702B1D (base 16) E-Domus International Limited
1st Floor

London W1W 7BL
GB

F0-85-C1 (hex) SHENZHEN RF-LINK TECHNOLOGY CO.,LTD.
F085C1 (base 16) SHENZHEN RF-LINK TECHNOLOGY CO.,LTD.
Bldg56A,6/F,Baotian Rd3,Xixiang Town,Baoan District,
Shenzhen Guangdong 518000
CN

10-3D-0A (hex) Hui Zhou Gaoshengda Technology Co.,LTD
103D0A (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.75,Zhongkai High-Tech Development District,Huizhou
Hui Zhou Guangdong 516006
CN

94-27-90 (hex) TCT mobile ltd
942790 (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

A4-17-91 (hex) Shenzhen Decnta Technology Co.,LTD.
A41791 (base 16) Shenzhen Decnta Technology Co.,LTD.
F13,No.02,Building
Shangqi,Nanhaidadao 4050 Nanshan District,Shenzhen,P.R.China
shenzhen Guangdong 518057
CN

D4-AD-71 (hex) Cisco Systems, Inc
D4AD71 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E8-4C-56 (hex) INTERCEPT SERVICES LIMITED
E84C56 (base 16) INTERCEPT SERVICES LIMITED
Bates Mill, Colne Road
Huddersfield North Yorkshire HD1 3AG
GB

10-9C-70 (hex) Prusa Research s.r.o.
109C70 (base 16) Prusa Research s.r.o.
Partyzanska 188/7a
Prague 17000
CZ

34-DA-B7 (hex) zte corporation
34DAB7 (base 16) zte corporation

12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

A4-19-08 (hex) Fiberhome Telecommunication Technologies Co.,LTD
A41908 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

00-14-A5 (hex) Gemtek Technology Co., Ltd.
0014A5 (base 16) Gemtek Technology
Co., Ltd.
No. 1 Jen Ai Road
Hukou, Hsinchu 303
TW

C0-B5-D7 (hex) CHONGQING FUGUI ELECTRONICS CO.,LTD.
C0B5D7 (base 16) CHONGQING FUGUI ELECTRONICS CO.,LTD.
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

80-D3-36 (hex) CERN
80D336 (base 16) CERN
CH-1211
GENEVE SUISSE/SWITZ 023
CH

64-25-5E (hex) Observint Technologies, Inc.
64255E (base 16) Observint Technologies, Inc.
11000 N Mopac Expressway Suite 300
Austin TX 78759
US

90-94-0A (hex) Analog Devices, Inc
90940A (base 16) Analog Devices, Inc
Unit 2200, Airport Business Park, Kinsale Road
Cork T12 X36X
IE

40-B0-76 (hex) ASUSTek COMPUTER INC.
40B076 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

D4-3D-39 (hex) Dialog Semiconductor

D43D39 (base 16) Dialog Semiconductor
B-7F, SiliconPark, 35,
Pangyo-ro 255beon-gil, Bundang-gu
Seongnam-si Gyeonggi-do 13486
KR

4C-21-8C (hex) Panasonic India Private limited
4C218C (base 16) Panasonic India Private limited
12th floor, Ambience tower, Ambience Island
Gurgaon Haryana 122002
IN

60-38-0E (hex) ALPSALPINE CO,.LTD
60380E (base 16) ALPSALPINE CO,.LTD
1-2-1, Okinouchi
Soma-city Fukushima 976-8501
JP

FC-62-B9 (hex) ALPSALPINE CO,.LTD
FC62B9 (base 16) ALPSALPINE CO,.LTD
6-1
kakuda-city Miyagi-Pref 981-1595
JP

00-02-C7 (hex) ALPSALPINE CO,.LTD
0002C7 (base 16) ALPSALPINE CO,.LTD
1-2-1, Okinouchi, Sama-City,
Sama 00000
JP

00-1E-3D (hex) ALPSALPINE CO,.LTD
001E3D (base 16) ALPSALPINE CO,.LTD
1-2-1, Okinouchi,
Soma-city, Fukushima-pref., 976-8501
JP

28-A1-83 (hex) ALPSALPINE CO,.LTD
28A183 (base 16) ALPSALPINE CO,.LTD
6-1
Kakuda Miyagi-Pref 981-1595
JP

48-F0-7B (hex) ALPSALPINE CO,.LTD
48F07B
(base 16) ALPSALPINE CO,.LTD
6-1
Kakuda Miyagi-Pref 981-1595
JP

4C-DD-7D (hex) LHP Telematics LLC
4CDD7D (base 16) LHP Telematics LLC
17406 Tiller Ct. STE 100
westfield IN 46074
US

B8-BC-5B (hex) Samsung Electronics Co.,Ltd
B8BC5B (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

CC-70-ED (hex) Cisco Systems, Inc
CC70ED (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

90-7E-30 (hex) LARS
907E30 (base 16) LARS
Swierkowa 14
Niepruszewo 64-320
PL

10-8E-BA (hex) Molekule
108EBA (base 16) Molekule
1184 Harrison Street
San Francisco 94103
US

94-A4-0C (hex) Diehl Metering GmbH
94A40C (base 16) Diehl Metering GmbH
Industriestrasse 13
Ansbach 91522
DE

70-B3-17 (hex) Cisco Systems, Inc
70B317 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose
CA 94568
US

B0-02-47 (hex) AMPAK Technology, Inc.
B00247 (base 16) AMPAK Technology, Inc.
3F.,No.15-1 Zhonghua Road,Hsinchu Industrial Park, Hukou,Hsinchu
Hsinchu Taiwan ROC. 30352

TW

BC-E7-96 (hex) Wireless CCTV Ltd
BCE796 (base 16) Wireless CCTV Ltd
charles Babbage house
Rochdale Greater Manchester ol164nw
GB

2C-4E-7D (hex) Chunghua Intelligent Network Equipment Inc.
2C4E7D (base 16) Chunghua Intelligent Network Equipment Inc.
2F-3, No.5, Sec. 3, New Taipei Blvd.,, XinZhung Dist,
New Taipei City 242
TW

A4-F4-65 (hex) ITEL MOBILE LIMITED
A4F465 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

18-B9-05 (hex) Hong Kong Bouffalo Lab Limited
18B905 (base 16) Hong Kong Bouffalo Lab Limited
RM 1903, 19/F Lee Garden One 33 Hysan Avenue, Causeway Bay
HongKong 999077
HK

F4-8C-EB
(hex) D-Link International
F48CEB (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

74-3A-65 (hex) NEC Corporation
743A65 (base 16) NEC Corporation
7-1, Shiba 5-chome, Minato-ku
Tokyo 108-8001
JP

00-25-5C (hex) NEC Corporation
00255C (base 16) NEC Corporation
1753, Shimonumabe, Nakahara-Ku, Kawasaki
Kanagawa 211-8666
JP

4C-91-7A (hex) IEEE Registration Authority
4C917A (base 16) IEEE Registration Authority
445 Hoes Lane

Piscataway NJ 08554
US

84-EB-3E (hex) Vivint Smart Home
84EB3E (base 16) Vivint Smart Home
4931 N. 300 W.
Provo UT 84604
US

D8-CE-3A (hex) Xiaomi Communications Co Ltd
D8CE3A (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

B0-90-7E (hex) Cisco Systems, Inc
B0907E (base 16) Cisco
Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

EC-F0-FE (hex) zte corporation
ECF0FE (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

18-BB-26 (hex) FN-LINK TECHNOLOGY LIMITED
18BB26 (base 16) FN-LINK TECHNOLOGY LIMITED
A Building,HuiXin industial park,No 31, YongHe road, Fuyong town, Bao'an District
SHENZHEN GUANGDONG 518100
CN

9C-82-75 (hex) Yichip Microelectronics (Hangzhou) Co.,Ltd
9C8275 (base 16) Yichip Microelectronics (Hangzhou) Co.,Ltd
Room 401, Building 15, No.498 Guoshoujing Road, Pudong Software Park
Shanghai 200120
CN

5C-CB-CA (hex) FUJIAN STAR-NET COMMUNICATION CO.,LTD
5CCBCA (base 16) FUJIAN STAR-NET COMMUNICATION CO.,LTD
19-22# Building, Star-net Science Plaza, Juyuanzhou,
FUZHOU FUJIAN 350002
CN

28-E9-8E (hex) Mitsubishi Electric Corporation
28E98E (base 16) Mitsubishi Electric Corporation

2-7-3
Marunouchi Chiyoda-ku
Tokyo 100-8310
JP

34-F8-E7 (hex) Cisco Systems, Inc
34F8E7 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

C0-9A-D0 (hex) Apple, Inc.
C09AD0 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

94-B0-1F (hex) Apple, Inc.
94B01F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

98-CC-4D (hex) Shenzhen mantunsci co., LTD
98CC4D (base 16) Shenzhen mantunsci co., LTD
3 floor, 3 environmental protection industrial park, Nanshan District
Shenzhen Guangdong 518000
CN

B8-C7-4A (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
B8C74A (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

94-8F-CF (hex) ARRIS Group, Inc.
948FCF (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

A8-F5-DD
(hex) ARRIS Group, Inc.
A8F5DD (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

44-D3-AD (hex) Shenzhen TINNO Mobile Technology Corp.
44D3AD (base 16) Shenzhen TINNO Mobile Technology Corp.
Building, No.33, Xiandong Rd, Xili
Nanshan District, Shenzhen PRC 518053
CN

74-85-C4 (hex) New H3C Technologies Co., Ltd
7485C4 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

94-F6-D6 (hex) Apple, Inc.
94F6D6 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F8-2D-7C (hex) Apple, Inc.
F82D7C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D0-BA-E4 (hex) Shanghai MXCHIP Information Technology Co., Ltd.
D0BAE4 (base 16) Shanghai MXCHIP Information Technology Co., Ltd.
Room 811,Tongpu Building
Shanghai Shanghai 200333
CN

C8-2E-47 (hex) Suzhou SmartChip Semiconductor
Co., LTD
C82E47 (base 16) Suzhou SmartChip Semiconductor Co., LTD
9A,Science Plaza,1355 JinJiHu Avenue, Suzhou Industrial Park,
Suzhou Jiangsu 215021
CN

C0-22-50 (hex) Koss Corporation
C02250 (base 16) Koss Corporation
4129 N. Port Washington Ave.
Milwaukee WI 53212
US

04-33-85 (hex) Nanchang BlackShark Co.,Ltd.
043385 (base 16) Nanchang BlackShark Co.,Ltd.
Room 319, Jiaoqiao Town Office Building, Economic and Technical development zone, Nanchang City, Jiangxi Province.
Nanchang 330013

CN

04-CE-7E (hex) NXP France Semiconductors France
04CE7E (base 16) NXP France Semiconductors France
Parc les Algorithmes,Saint Aubin
Gif sur Yvette 91193
FR

50-8C-F5 (hex) China Mobile Group Device Co.,Ltd.
508CF5 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

1C-54-9E (hex) Universal Electronics, Inc.
1C549E (base 16) Universal
Electronics, Inc.
201 E. Sandpointe Ave
Santa Ana CA 92707
US

78-23-27 (hex) Samsung Electronics Co.,Ltd
782327 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

DC-F7-56 (hex) Samsung Electronics Co.,Ltd
DCF756 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

2C-A0-2F (hex) Veroguard Systems Pty Ltd
2CA02F (base 16) Veroguard Systems Pty Ltd
PO Box 5003
Clayton VIC 3168
AU

A0-B5-49 (hex) Arcadyan Corporation
A0B549 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

00-1F-5A (hex) Beckwith Electric Co.
001F5A (base 16) Beckwith Electric Co.
6190 118th Ave No

Largo Florida 33773
US

98-5D-82 (hex) Arista Networks
985D82 (base 16) Arista Networks
5453 Great America Parkway
Santa Clara CA 95054
US

2C-73-60 (hex) Earda Technologies co
Ltd
2C7360 (base 16) Earda Technologies co Ltd
Block A,Lianfeng Creative Park, #2 Jisheng Rd., Nansha District
Guangzhou Guangdong 511455
CN

E4-CA-12 (hex) zte corporation
E4CA12 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

D4-9E-05 (hex) zte corporation
D49E05 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

58-5F-F6 (hex) zte corporation
585FF6 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

40-B3-0E (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
40B30E (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

C0-13-2B (hex) Sichuan Changhong Electric Ltd.
C0132B (base 16) Sichuan Changhong Electric Ltd.
No.35,East
MianXin Road,MianYang,Sichaun,China.
MianYang SiChuan PRC 621000
CN

0C-B4-A4 (hex) Xintai Automobile Intelligent Network Technology

0CB4A4 (base 16) Xintai Automobile Intelligent Network Technology
Room3703E Changfu Jinmao BuildingShihua Road
Futian Duty Free ZoneFubao StreetFutian District Shenzhen City 518000
CN

90-63-3B (hex) Samsung Electronics Co.,Ltd
90633B (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

FC-AA-B6 (hex) Samsung Electronics Co.,Ltd
FCAAB6 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

24-53-BF (hex) Enernet
2453BF (base 16) Enernet
1007 B-dong, Hyundai Knowledge Industry Center, 70 Dusan-ro, Geumcheon-gu, Seoul, KOREA
SEOUL 08584
KR

10-2C-6B (hex) AMPAK Technology, Inc.
102C6B (base 16) AMPAK Technology, Inc.
3F.,No.15-1 Zhonghua Road,Hsinchu Industrial Park, Hukou,Hsinchu, Taiwan
(R.O.C.)
Hsinchu Taiwan ROC. 30352
TW

A8-BC-9C (hex) Cloud Light Technology Limited
A8BC9C (base 16) Cloud Light Technology Limited
3/F, 6 Science Park East Avenue Hong Kong Science Park Shatin, N.T., Hong Kong
Hong Kong 00000
HK

A8-90-42 (hex) Beijing Wanwei Intelligent Technology Co., Ltd.
A89042 (base 16) Beijing Wanwei Intelligent Technology Co., Ltd.
Room 616, Section 1, Cuicing, No. 1 Shanyuan Street, Haidian District
Beijing Beijing 100000
CN

18-BE-92 (hex) Delta Networks, Inc.
18BE92 (base 16) Delta Networks, Inc.
256 Yang Guang Street, Neihu
Taipei Taiwan 11491
TW

D0-92-FA (hex) Fiberhome Telecommunication Technologies Co.,LTD
D092FA (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

E8-5A-D1 (hex) Fiberhome Telecommunication Technologies Co.,LTD
E85AD1 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5
DongXin Road
Wuhan Hubei 430074
CN

90-C5-4A (hex) vivo Mobile Communication Co., Ltd.
90C54A (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

BC-75-96 (hex) Beijing Broadwit Technology Co., Ltd.
BC7596 (base 16) Beijing Broadwit Technology Co., Ltd.
Beijing Changping District Beijing International Information Industry Base Jizhida Building 3rd Floor Southeast
Beijing Beijing 10000
CN

68-A4-7D (hex) Sun Cupid Technology (HK) LTD
68A47D (base 16) Sun Cupid Technology (HK) LTD
16/F, CEO Tower, 77 Wing Hong Street, Kowloon
Hong Kong 00000
HK

18-4B-0D (hex) Ruckus Wireless
184B0D (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

D4-12-43 (hex) AMPAK Technology, Inc.
D41243 (base 16) AMPAK Technology, Inc.
No.1,Jen Ai Road Hsinchu Industrial Park, Hukou
Hsinchu Taiwan ROC. 30352
TW

48-A6-B8
(hex) Sonos, Inc.
48A6B8 (base 16) Sonos, Inc.
614 Chapala St
Santa Barbara CA 93101

US

B8-78-26 (hex) Nintendo Co.,Ltd
B87826 (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

DC-CB-A8 (hex) Explora Technologies Inc
DCCBA8 (base 16) Explora Technologies Inc
360, Franquet Street
Quebec G1P 4N3
CA

6C-5C-3D (hex) IEEE Registration Authority
6C5C3D (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

84-E5-D8 (hex) Guangdong UNIPOE IoT Technology Co.,Ltd.
84E5D8 (base 16) Guangdong UNIPOE IoT Technology Co.,Ltd.
11th Fl., BLDG. B1, Guangda WE Valley, Songshan Lake District
Dongguan Guangdong 523808
CN

C0-78-78 (hex) FLEXTRONICS MANUFACTURING(ZHUHAI)CO.,LTD.
C07878 (base 16) FLEXTRONICS MANUFACTURING(ZHUHAI)CO.,LTD.
Xin Qing Science & Technology Industrial Park,Jin An Town,Doumen ,Zhuhai,Guangdong,PRC
Zhuhai
Guangdong 519180
CN

34-DA-C1 (hex) SAE Technologies Development(Dongguan) Co., Ltd.
34DAC1 (base 16) SAE Technologies Development(Dongguan) Co., Ltd.
Winnerway Industrial Area,Nancheng
Dongguan City Guangdong Province 523087
CN

50-76-AF (hex) Intel Corporate
5076AF (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

E0-46-E5 (hex) Gosuncn Technology Group Co., Ltd.
E046E5 (base 16) Gosuncn Technology Group Co., Ltd.
6F, 2819 KaiChuang Blvd., Science Town, Huangpu District

Guangzhou City Guangdong 510530
CN

1C-34-DA (hex) Mellanox Technologies, Inc.
1C34DA (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway, Suite 100
Sunnyvale CA 94085
US

BC-26-C7 (hex) Cisco Systems, Inc
BC26C7 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

BC-5E-A1 (hex) PsiKick, Inc.
BC5EA1 (base 16) PsiKick, Inc.
2348
Walsh Ave
Santa Clara CA 95051
US

D4-BD-1E (hex) 5VT Technologies,Taiwan LTd.
D4BD1E (base 16) 5VT Technologies,Taiwan LTd.
6F,No.19-9,SanChong Rd.,Nangang Dist,
Taipei 11501
TW

CC-D4-A1 (hex) MitraStar Technology Corp.
CCD4A1 (base 16) MitraStar Technology Corp.
No. 6, Innovation Road II,
Hsinchu 300
TW

08-BA-5F (hex) Qingdao Hisense Electronics Co.,Ltd.
08BA5F (base 16) Qingdao Hisense Electronics Co.,Ltd.
Qianwangang Roard 218
Qingdao Shandong 266510
CN

10-DF-FC (hex) Siemens AG
10DFFC (base 16) Siemens AG
Siemensstrasse 10
Regensburg 93055
DE

84-7F-3D (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
847F3D (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.

Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

30-E3-D6 (hex) Spotify USA Inc.
30E3D6 (base 16) Spotify USA Inc.
45 West 18th Street
New York NY 10011
US

9C-A5-25
(hex) Shandong USR IOT Technology Limited
9CA525 (base 16) Shandong USR IOT Technology Limited
Floor 11,Building 1,No.1166 Xinluo Street,Gaoxin District,Jinan,Shandong,250101,China
Jinan Shandong 250101
CN

E0-45-6D (hex) China Mobile Group Device Co.,Ltd.
E0456D (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

28-39-26 (hex) CyberTAN Technology Inc.
283926 (base 16) CyberTAN Technology Inc.
99 Park Ave III, Hsinchu Science Park
Hsinchu 308
TW

C4-FD-E6 (hex) DRTECH
C4FDE6 (base 16) DRTECH
29, Dunchon-daero 541beon-gil, Jungwon-gu
Seongnam Gyeonggi-do 13216
KR

CC-98-8B (hex) SONY Visual Products Inc.
CC988B (base 16) SONY Visual Products Inc.
2-10-1 Osaki
Shinagawa-ku Tokyo 141-8610
JP

70-5D-CC (hex) EFM Networks
705DCC (base 16) EFM Networks
6F, Benposra II 1197-1 Bojeong Giheung Gu
Yong In
Kyunggi do 446913
KR

A8-23-FE (hex) LG Electronics
A823FE (base 16) LG Electronics
222 LG-ro, JINWI-MYEON
Pyeongtaek-si Gyeonggi-do 451-713
KR

E0-5D-5C (hex) Oy Everon Ab
E05D5C (base 16) Oy Everon Ab
Teräskatu 8
Turku 20520
FI

8C-FC-A0 (hex) Shenzhen Smart Device Technology Co., LTD.
8CFCA0 (base 16) Shenzhen Smart Device Technology Co., LTD.
SSMEC Building,Gao Xin Nan First Avenue Hi-Tech Park South,Nanshan
Shenzhen GuangDong 518057
CN

94-4F-4C (hex) Sound United LLC
944F4C (base 16) Sound United LLC
One Viper Way
Vista CA 92081
US

18-81-0E (hex) Apple, Inc.
18810E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

60-8C-4A (hex) Apple, Inc.
608C4A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

24-1B-7A (hex) Apple, Inc.
241B7A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

8C-FE-57
(hex) Apple, Inc.
8CFE57 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C0-A6-00 (hex) Apple, Inc.
C0A600 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

74-B5-87 (hex) Apple, Inc.
74B587 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

FC-B6-D8 (hex) Apple, Inc.
FCB6D8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

3C-6A-2C (hex) IEEE Registration Authority
3C6A2C (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

1C-59-9B (hex) HUAWEI TECHNOLOGIES CO.,LTD
1C599B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

80-69-33 (hex) HUAWEI TECHNOLOGIES CO.,LTD
806933 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

68-8F-2E
(hex) Hitron Technologies. Inc
688F2E (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

E0-C2-86 (hex) Aisai Communication Technology Co., Ltd.
E0C286 (base 16) Aisai Communication Technology Co., Ltd.
Room 2610 Asia Trade Centre,
Kwai Chung N.T. 852

HK

F0-B0-14 (hex) AVM Audiovisuelles Marketing und Computersysteme GmbH
F0B014 (base 16) AVM Audiovisuelles Marketing und Computersysteme GmbH
Alt-Moabit 95
Berlin Berlin 10559
DE

D8-0D-17 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
D80D17 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

74-05-A5 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
7405A5 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology
Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

28-6D-CD (hex) Beijing Winner Microelectronics Co.,Ltd.
286DCD (base 16) Beijing Winner Microelectronics Co.,Ltd.
Floor 18, YinDu Building, No.67 FuCheng Road, HaiDian District
Beijing 100142
CN

54-10-31 (hex) SMARTO
541031 (base 16) SMARTO
25 QUAI GALLIENI
SURESNES HAUT DE SEINE 92150
FR

44-A4-66 (hex) GROUPE LDLC
44A466 (base 16) GROUPE LDLC
Groupe LDLC - 2 rue des Erables
LIMONEST Rhone 69760
FR

18-89-A0 (hex) Wuhan Funshion Online Technologies Co.,Ltd
1889A0 (base 16) Wuhan Funshion Online Technologies Co.,Ltd
5th Floor,Financial Port Building A9,No.77 Optical Valley Avenue, East Lake High-Tech Development Zone, Wuhan
Wuhan CN/Hubei 430000
CN

1C-42-7D (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
1C427D (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD

NO.18 HAIBIN ROAD,
DONG GUAN
GUANG DONG 523860
CN

18-C2-BF (hex) BUFFALO.INC
18C2BF (base 16) BUFFALO.INC
AKAMONDORI Bld.,30-20,Ohsu 3-chome,Naka-ku
Nagoya Aichi Pref. 460-8315
JP

0C-2A-86 (hex) Fiberhome Telecommunication Technologies Co.,LTD
0C2A86 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

FC-61-E9 (hex) Fiberhome Telecommunication Technologies Co.,LTD
FC61E9 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

40-56-62 (hex) GuoTengShengHua Electronics LTD.
405662 (base 16) GuoTengShengHua Electronics LTD.
1st floor,No. 15 of Tech North 2nd Road,Nanshan District,
Shenzhen Guangdong 518000
CN

E4-DB-6D (hex) Beijing Xiaomi Electronics Co., Ltd.
E4DB6D (base 16) Beijing Xiaomi Electronics Co., Ltd.
Building C, QingHe ShunShiJiaYe Technology Park, #66 ZhuFang Rd, HaiDian District
Beijing Beijing 10085
CN

0C-53-31
(hex) ETH Zurich
0C5331 (base 16) ETH Zurich
Dept. Computer Science, Universitätstr. 6
Zurich ZH 8092
CH

0C-9A-42 (hex) FN-LINK TECHNOLOGY LIMITED
0C9A42 (base 16) FN-LINK TECHNOLOGY LIMITED
A Building,HuiXin industial park,No 31, YongHe road, Fuyong town, Bao'an District
SHENZHEN GUANGDONG 518100
CN

54-81-2D (hex) PAX Computer Technology(Shenzhen) Ltd.
54812D (base 16) PAX Computer Technology(Shenzhen) Ltd.
4/F, No.3 Building, Software Park, Second Central Science-Tech Road, High-Tech
Shenzhen GuangDong 518057
CN

DC-90-88 (hex) HUAWEI TECHNOLOGIES CO.,LTD
DC9088 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-A0-D1 (hex) INVENTEC CORPORATION
00A0D1 (base 16) INVENTEC CORPORATION
INVENTEC BUILDING
TAIWAN TAIWAN R.O.C.
TW

00-18-CC (hex) AXIOHM SAS
0018CC (base 16) AXIOHM SAS
1
RUE D'ARCUEIL
MONTROUGE 92120
FR

00-18-27 (hex) NEC UNIFIED SOLUTIONS NEDERLAND B.V.
001827 (base 16) NEC UNIFIED SOLUTIONS NEDERLAND B.V.
ANTON PHILIPSWEG 1
HILVERSUM NH 1223KZ
NL

00-90-04 (hex) 3COM EUROPE LTD
009004 (base 16) 3COM EUROPE LTD
3COM CENTRE, BOUNDARY WAY
HERTS. HP2 7YU 00000
GB

00-06-8C (hex) 3COM
00068C (base 16) 3COM
5400 BAYFRONT PLAZA
SANTA CLARA CA 95052
US

02-60-8C (hex) 3COM
02608C (base 16) 3COM
5400 BAYFRONT PLAZA
SANTA CLARA CA 95052
US

00-D0-D8 (hex) 3COM
00D0D8 (base 16) 3COM
2133 LEGHORN STREET
MOUNTAIN VIEW CA 94043
US

58-D5-6E (hex) D-Link International
58D56E (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

18-93-7F (hex) AMPAK Technology, Inc.
18937F (base 16) AMPAK Technology, Inc.
No.1,Jen Ai Road Hsinchu Industrial Park, Hukou
Hsinchu
Taiwan ROC. 30352
TW

A4-35-23 (hex) Guangdong Donyan Network Technologies Co.,Ltd.
A43523 (base 16) Guangdong Donyan Network Technologies Co.,Ltd.
No.6,Kejizhong Road,Chuangye Building,Hi-tech Zone
Shantou Guangdong 515000
CN

B4-A9-4F (hex) MERCURY CORPORATION
B4A94F (base 16) MERCURY CORPORATION
90, Gajaeul-ro, Seo-gu
INCHEON 22830
KR

00-26-B7 (hex) Kingston Technology Company, Inc.
0026B7 (base 16) Kingston Technology Company, Inc.
17600 Newhope St.
Fountain Valley CA 92708
US

00-08-09 (hex) Systemonic AG
000809 (base 16) Systemonic AG
Am Waldschloesschen 1

DE

8C-41-F4 (hex) IPmotion GmbH
8C41F4 (base 16) IPmotion GmbH
Ludwig-Rinn-Straße 8-16
Heuchelheim Hessen 35452

DE

70-4F-08 (hex) Shenzhen Huisheng Information Technology Co., Ltd.
704F08 (base 16) Shenzhen Huisheng Information Technology Co., Ltd.
Room 4A-205, Software Industry
Base, Yuehai St
Nanshan District, Shenzhen Guangdong 518000
CN

F8-5E-3C (hex) SHENZHEN ZHIBOTONG ELECTRONICS CO.,LTD
F85E3C (base 16) SHENZHEN ZHIBOTONG ELECTRONICS CO.,LTD
4F,Bldg A2,Hedian Industrial Park,NO.8 Shijing Rd,Guanlan,Longhua District,ShenZhen,China
shengzhen 518110
CN

80-3A-F4 (hex) Fiberhome Telecommunication Technologies Co.,LTD
803AF4 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

48-A0-F8 (hex) Fiberhome Telecommunication Technologies Co.,LTD
48A0F8 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

88-35-C1 (hex) OI ELECTRIC CO.,LTD
8835C1 (base 16) OI ELECTRIC CO.,LTD
7-3-16 KIKUNA
YOKOHAMA KANAGAWA-KEN 222-0011
JP

30-42-A1 (hex) ilumisys Inc. DBA Toggled
3042A1 (base 16) ilumisys Inc. DBA Toggled
1820 E. Big Beaver Road
Troy MI 48083
US

40-62-EA
(hex) China Mobile Group Device Co.,Ltd.
4062EA (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

9C-F6-DD (hex) IEEE Registration Authority
9CF6DD (base 16) IEEE Registration Authority

445 Hoes Lane
Piscataway NJ 08554
US

28-3E-76 (hex) Common Networks
283E76 (base 16) Common Networks
1390 Market St. Suite 820
San Francisco CA 94102
US

DC-39-79 (hex) Cisco Systems, Inc
DC3979 (base 16) Cisco Systems, Inc
280 Hope Street
Mountain View CA 94041
US

00-1E-80 (hex) Icotera A/S
001E80 (base 16) Icotera A/S
Vibeholms Allé 16
Brøndby 2605
DK

48-88-1E (hex) EthoSwitch LLC
48881E (base 16) EthoSwitch LLC
1298 Evans Road
Wall Township NJ 07719
US

CC-21-19 (hex) Samsung Electronics Co.,Ltd
CC2119 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

3C-71-BF
(hex) Espressif Inc.
3C71BF (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

90-2B-D2 (hex) HUAWEI TECHNOLOGIES CO.,LTD
902BD2 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

50-2F-A8 (hex) Cisco Systems, Inc

502FA8 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

C0-83-59 (hex) IEEE Registration Authority
C08359 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

00-03-93 (hex) Apple, Inc.
000393 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-00-C3 (hex) Harris Corporation
0000C3 (base 16) Harris Corporation
1025 West NASA Blvd
Melbourne FL 32919
US

08-D5-9D (hex) Sagemcom Broadband SAS
08D59D (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil
Malmaison Cedex hauts de seine 92848
FR

B4-69-21 (hex) Intel Corporate
B46921 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

4C-0F-C7 (hex) Earda Technologies co Ltd
4C0FC7 (base 16) Earda Technologies co Ltd
5/F,Block 2 East area,Haosheng Industrial Park,
Guangzhou Guangdong 511400
CN

80-A7-96 (hex) Neuralink Corp.
80A796 (base 16) Neuralink Corp.
3180 18th St, Ste 200
San Francisco CA 94110
US

44-65-7F (hex) Calix Inc.
44657F (base 16) Calix Inc.
2777 Orchard Pkwy
San Jose CA 95131
US

30-4B-07 (hex) Motorola Mobility LLC, a Lenovo Company
304B07 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

34-5A-BA (hex) tcloud intelligence
345ABA (base 16) tcloud intelligence
Bao'an District, No. 400 Xiangshan Avenue
ShenZhen GuangDong 518105
CN

14-94-2F (hex) USYS
CO.,LTD.
14942F (base 16) USYS CO.,LTD.
#911, SeoulTechnoPark, 232, Gongneung-ro, Nowon-gu
Seoul KS013
KR

EC-83-D5 (hex) GIRD Systems Inc
EC83D5 (base 16) GIRD Systems Inc
11260 Chester Road, Ste. 600
Cincinnati OH 45246
US

00-04-AE (hex) Sullair Corporation
0004AE (base 16) Sullair Corporation
3700 East Michigan Blvd
Michigan City IN 46360
US

FC-B1-0D (hex) Shenzhen Tian Kun Technology Co.,LTD.
FCB10D (base 16) Shenzhen Tian Kun Technology Co.,LTD.
Layer 8,Nanyuan Maple Building,No.1088 Nanshan Avenue,Nanshan Street,Nanshan District,Shenzhen
Shenzhen Guangdong 518048
CN

20-F7-7C (hex) vivo Mobile Communication Co., Ltd.
20F77C (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

00-45-1D (hex) Cisco Systems, Inc
00451D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A0-D6-35
(hex) WBS Technology
A0D635 (base 16) WBS Technology
Unit32, 2 Slough Ave, Slough Business Park
Silverwater New South Wales 2128
AU

00-1E-EC (hex) COMPAL INFORMATION (KUNSHAN) CO., LTD.
001EEC (base 16) COMPAL INFORMATION (KUNSHAN) CO., LTD.
NO. 25, THE 3RD Street
KUNSHAN CITY SUZHOU PROVINCE 215300
CN

F0-76-1C (hex) COMPAL INFORMATION (KUNSHAN) CO., LTD.
F0761C (base 16) COMPAL INFORMATION (KUNSHAN) CO., LTD.
NO. 15, THE 3RD Street KUNSHAN EXPORT PROCESSING ZONE
KUNSHAN SUZHOU 215300
CN

00-0C-8A (hex) Bose Corporation
000C8A (base 16) Bose Corporation
Automotive Systems Division (ASD)
Stow MA 01775-9102
US

30-D6-59 (hex) Merging Technologies SA
30D659 (base 16) Merging Technologies SA
Le Verney 4
Puidoux Outside the U.S or Canada 1070
CH

70-2A-D5 (hex) Samsung Electronics Co.,Ltd
702AD5 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon
Gyeonggi-Do 16677
KR

88-97-65 (hex) exands
889765 (base 16) exands
RM2202 , No. 666 Gubei road

shanghai 200336
CN

34-80-0D (hex) Cavium Inc
34800D (base 16) Cavium Inc
15485 Sand Canyon Ave
Irvine CA 92618
US

B4-4B-D6 (hex) IEEE Registration Authority
B44BD6 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

D8-91-2A (hex) Zyxel Communications Corporation
D8912A (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

40-EE-DD (hex) HUAWEI TECHNOLOGIES CO.,LTD
40EEDD (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

3C-42-7E (hex) IEEE Registration Authority
3C427E (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

00-0B-A3 (hex) Siemens AG
000BA3 (base 16) Siemens
AG
Werner-von-Siemens-Straße 65
Erlangen Bavaria 91052
DE

64-1C-67 (hex) DIGIBRAS INDUSTRIA DO BRASILS/A
641C67 (base 16) DIGIBRAS INDUSTRIA DO BRASILS/A
Rua Tambaqui, 180-B - MANAUS - AM ¨C BRAZIL
manaus MANAUS 69075-210
BR

60-05-8A (hex) Hitachi Metals, Ltd.
60058A (base 16) Hitachi Metals, Ltd.

Shinagawa Season Terrace, 2-70, Konan 1-chome
Minato-ku Tokyo 108-8224
JP

38-6E-88 (hex) zte corporation
386E88 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

24-3A-82 (hex) IRTS
243A82 (base 16) IRTS
639 BD DES ARMARIS, IRTS
TOULON Provence Alpes Cotes d'Azur 83100
FR

88-09-07 (hex) MKT Systemtechnik GmbH & Co. KG
880907 (base 16) MKT Systemtechnik GmbH & Co. KG
Hasskampstraße 75-77
Bünde NRW 32257
DE

58-A4-8E (hex) PixArt Imaging Inc.
58A48E (base 16) PixArt Imaging Inc.
No.5, Innovation
Road 1, HsinChu Science Park,
Hsin-Chu 300
TW

A0-19-B2 (hex) IEEE Registration Authority
A019B2 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

AC-75-1D (hex) HUAWEI TECHNOLOGIES CO.,LTD
AC751D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

28-9E-97 (hex) HUAWEI TECHNOLOGIES CO.,LTD
289E97 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-1E-B0 (hex) ImesD Electronica S.L.

001EB0 (base 16) ImesD Electronica S.L.
d'Entença 81
Barcelona 08015
ES

8C-15-C7 (hex) HUAWEI TECHNOLOGIES CO.,LTD
8C15C7 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

60-FA-9D (hex) HUAWEI TECHNOLOGIES CO.,LTD
60FA9D (base 16) HUAWEI TECHNOLOGIES
CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

DC-99-14 (hex) HUAWEI TECHNOLOGIES CO.,LTD
DC9914 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

4C-3F-D3 (hex) Texas Instruments
4C3FD3 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

00-15-25 (hex) Chamberlain Access Solutions
001525 (base 16) Chamberlain Access Solutions
8271 E. Gelding Drive
Scottsdale AZ 85260
US

00-80-B6 (hex) Mercury Systems – Trusted Mission Solutions, Inc.
0080B6 (base 16) Mercury Systems – Trusted Mission Solutions, Inc.
6681 OWENS DRIVE
PLEASONTON CA 94588
US

08-51-2E (hex) Orion Diagnostica Oy
08512E (base 16) Orion Diagnostica Oy
Koivu-Mankkaan tie 6
Espoo 02100
FI

98-A4-04 (hex) Ericsson AB
98A404 (base 16) Ericsson AB
Torshamnsgatan 36
Stockholm
SE-164 80
SE

00-CC-3F (hex) Universal Electronics, Inc.
00CC3F (base 16) Universal Electronics, Inc.
201 E. Sandpointe Ave
Santa Ana CA 92707
US

74-EB-80 (hex) Samsung Electronics Co.,Ltd
74EB80 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

0C-E0-DC (hex) Samsung Electronics Co.,Ltd
0CE0DC (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D8-68-C3 (hex) Samsung Electronics Co.,Ltd
D868C3 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C4-93-D9 (hex) Samsung Electronics Co.,Ltd
C493D9 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B0-53-65 (hex) China Mobile IOT Company Limited
B05365 (base 16) China Mobile IOT Company Limited
NO.8 Yu Ma Road, NanAn Area
Chongqing Chongqing 401336
CN

BC-22-FB (hex) RF
Industries
BC22FB (base 16) RF Industries
PO Box 5
Welland SA 5007

AU

74-B9-1E (hex) Nanjing Bestway Automation System Co., Ltd
74B91E (base 16) Nanjing Bestway Automation System Co., Ltd
#50 Baoxiang Road, Jiangning Bin Jiang Economic Development Zone
nanjing jiangsu 211161
CN

A8-2B-B9 (hex) Samsung Electronics Co.,Ltd
A82BB9 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

AC-FD-93 (hex) WEIFANG GOERTEK ELECTRONICS CO.,LTD
ACFD93 (base 16) WEIFANG GOERTEK ELECTRONICS CO.,LTD
Gaoxin 2 Road,Free Trade Zone,Weifang,Shandong,261205,P.R.China
Weifang Shandong 261205
CN

68-57-2D (hex) Tuya Smart Inc.
68572D (base 16) Tuya Smart Inc.
160 Greentree Drive, Suite 101
Dover DE 19904
US

30-88-41 (hex) Sichuan AI-Link Technology Co., Ltd.
308841 (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou,Industrial Park
Anzhou,Industrial
Park Sichuan 621000
CN

44-EF-CF (hex) UGENE SOLUTION inc.
44EFCF (base 16) UGENE SOLUTION inc.
A-1508, 1509, 583, Yangcheon-ro, Gangseo-gu
Seoul KS013
KR

30-45-96 (hex) HUAWEI TECHNOLOGIES CO.,LTD
304596 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C0-F4-E6 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C0F4E6 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park

Dongguan 523808
CN

F4-BF-80 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F4BF80 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-0E-8F (hex) Sercomm Corporation.
000E8F (base 16) Sercomm Corporation.
3F,No.81,Yu-Yih Rd.,Chu-Nan Chen
Miao-Lih Hsuan 115
TW

00-B8-C2 (hex) Heights Telecom T ltd
00B8C2 (base 16) Heights Telecom T ltd
Moshe
Lerer 15
Nes Ziona 7404996
IL

B4-B6-86 (hex) Hewlett Packard
B4B686 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston TX 77070
US

4C-ED-FB (hex) ASUSTek COMPUTER INC.
4CEDFB (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

88-D6-52 (hex) AMERGINT Technologies
88D652 (base 16) AMERGINT Technologies
2315 Briargate Pkwy, Suite 100
Colorado Springs CO 80920
US

6C-AF-15 (hex) Webasto SE
6CAF15 (base 16) Webasto SE
Kraillinger Straße 5
Stockdorf Bayern 82131
DE

D0-B2-14 (hex) PoeWit Inc
D0B214 (base 16) PoeWit Inc

2307 Sea Island Dr
Fort Lauderdale FL 33301
US

FC-90-FA (hex) Independent Technologies
FC90FA (base 16) Independent Technologies
1960 Ridgeview Rd
Blair NE 68008
US

E4-E1-30 (hex) TCT mobile ltd
E4E130 (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech
District
Hui Zhou Guang Dong 516006
CN

7C-2E-BD (hex) Google, Inc.
7C2EBD (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

40-50-B5 (hex) Shenzhen New Species Technology Co., Ltd.
4050B5 (base 16) Shenzhen New Species Technology Co., Ltd.
Room 1827,Building R&D,EVOC intelligence valley,No 11,Gao xin west road,Guangming New District
Shenzhen 518107
CN

68-D1-BA (hex) Shenzhen YOUHUA Technology Co., Ltd
68D1BA (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

E4-60-59 (hex) Pingtek Co., Ltd.
E46059 (base 16) Pingtek Co., Ltd.
5F., No.786, Zhongzheng Rd., Zhonghe Dist.
New Taipei City 235
TW

A0-E6-17 (hex) MATIS
A0E617 (base 16) MATIS
2/F,Hatchobori MIYATA Bldg.,1-8-2,
Shintomi,Chuo-Ku, Tokyo 104-0041
JP

70-01-B5 (hex) Cisco

Systems, Inc
7001B5 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1F-49 (hex) Manhattan TV Ltd
001F49 (base 16) Manhattan TV Ltd
3 Phoenix Park,
London NW2 7LN
GB

0C-21-38 (hex) Hengstler GmbH
0C2138 (base 16) Hengstler GmbH
Uhlandstrasse49
Aldingen BW 78554
DE

1C-1A-C0 (hex) Apple, Inc.
1C1AC0 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

30-78-C2 (hex) Innowireless / QUCELL Networks
3078C2 (base 16) Innowireless / QUCELL Networks
Innowireless Bldg. 190 Seohyeon-ro
Bundang-gu, Seongnam-si Gyeonggi-do 13590
KR

E0-19-1D (hex) HUAWEI TECHNOLOGIES CO.,LTD
E0191D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

3C-15-FB (hex) HUAWEI TECHNOLOGIES CO.,LTD
3C15FB (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan
Lake Technology Park
Dongguan 523808
CN

DC-33-0D (hex) QING DAO HAIER TELECOM CO.,LTD.
DC330D (base 16) QING DAO HAIER TELECOM CO.,LTD.
No 1 Haier road,Hi-tech ZoneQingdaoPR.China
Qingdao Shandong 266101
CN

E0-38-3F (hex) zte corporation
E0383F (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

D4-72-26 (hex) zte corporation
D47226 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

40-F0-4E (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
40F04E (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

00-CF-C0 (hex) China Mobile Group Device Co.,Ltd.
00CFC0 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

00-21-F2
(hex) EASY3CALL Technology Limited
0021F2 (base 16) EASY3CALL Technology Limited
Room 1903-6, 19/F., HING YIP Commercial Centre
Hong Kong 999077
CN

00-15-C4 (hex) FLOVEL CO., LTD.
0015C4 (base 16) FLOVEL CO., LTD.
The Tachihi building No,3 hall, 6-1, Sakae-cho,
Tokyo 190-0003
US

AC-35-EE (hex) FN-LINK TECHNOLOGY LIMITED
AC35EE (base 16) FN-LINK TECHNOLOGY LIMITED
A Building,HuiXin industial park,No 31, YongHe road, Fuyong town, Bao'an District
SHENZHEN GUANGDONG 518100
CN

00-11-E6 (hex) Scientific Atlanta
0011E6 (base 16) Scientific Atlanta
5030 Sugarloaf Parkway
Lawrenceville Ga 30042

US

88-AE-07 (hex) Apple, Inc.
88AE07 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

40-83-1D (hex) Apple, Inc.
40831D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

DC-D3-A2 (hex) Apple, Inc.
DCD3A2 (base 16) Apple, Inc.
1 Infinite
Loop
Cupertino CA 95014
US

80-05-88 (hex) Ruijie Networks Co.,LTD
800588 (base 16) Ruijie Networks Co.,LTD
20# Building,Star-net Science Plaza,Juyuanzhou, 618 Jinshan Road
Fuzhou Fujian 350002
CN

5C-1D-D9 (hex) Apple, Inc.
5C1DD9 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

68-FE-F7 (hex) Apple, Inc.
68FEF7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-0E-1D (hex) Megafone Limited
F00E1D (base 16) Megafone Limited
Unit 702,7/F,Bankok Bank Building,NO.18 Bonham Strand West
Hong Kong 999077
HK

24-F1-28 (hex) Telstra
24F128 (base 16) Telstra
231 Elisabeth St

SYDNEY NSW 2000
AU

70-69-5A (hex) Cisco Systems, Inc
70695A (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-BF-77 (hex) Cisco Systems, Inc
00BF77 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA
94568
US

D0-77-14 (hex) Motorola Mobility LLC, a Lenovo Company
D07714 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

30-B7-D4 (hex) Hitron Technologies. Inc
30B7D4 (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

B4-81-BF (hex) Meta-Networks, LLC
B481BF (base 16) Meta-Networks, LLC
Office 106C, 5/2, Varshavskaya street
Saint-Petersburg Saint-Petersburg 196128
RU

0C-2C-54 (hex) HUAWEI TECHNOLOGIES CO.,LTD
0C2C54 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

88-11-96 (hex) HUAWEI TECHNOLOGIES CO.,LTD
881196 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E4-0E-EE (hex) HUAWEI TECHNOLOGIES CO.,LTD
E40EEE

(base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

28-D9-97 (hex) Yuduan Mobile Co., Ltd.
28D997 (base 16) Yuduan Mobile Co., Ltd.
Room 401 No 84 Lane 887 Zuchongzhi Rd.
Shanghai 201203
CN

D4-C1-9E (hex) Ruckus Wireless
D4C19E (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

0C-AE-7D (hex) Texas Instruments
0CAE7D (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

30-45-11 (hex) Texas Instruments
304511 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

30-1F-9A (hex) IEEE Registration Authority
301F9A (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

28-FD-80 (hex) IEEE Registration Authority
28FD80 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

00-07-58 (hex) DragonWave
Inc.
000758 (base 16) DragonWave Inc.
600-411 Leggett Drive,
Kanata, Ontario K2K 3C9
CA

94-6A-B0 (hex) Arcadyan Corporation
946AB0 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

48-18-FA (hex) Nocsys
4818FA (base 16) Nocsys
1F, No. 63 Building, No. 421 Hong Cao Road, Xuhui District
Shanghai Shanghai 200233
CN

E8-1A-AC (hex) ORFEO SOUNDWORKS Inc.
E81AAC (base 16) ORFEO SOUNDWORKS Inc.
612, 11-41, Simin-daero 327beon-gil, Dongan-gu
Anyang 14055
KR

A0-38-F8 (hex) OURA Health Oy
A038F8 (base 16) OURA Health Oy
Elektroniikkatie 3
Oulu 90590
FI

D4-93-98 (hex) Nokia Corporation
D49398 (base 16) Nokia Corporation
Joensuunkatu 7
Salo N.A. 24101
FI

00-19-37 (hex) CommerceGuard AB
001937 (base 16) CommerceGuard AB
Gustavslundsv 151A
BROMMA 16714
SE

FC-7C-02 (hex) Phicomm (Shanghai) Co.,
Ltd.
FC7C02 (base 16) Phicomm (Shanghai) Co., Ltd.
3666 SiXian Rd.,Songjiang District
Shanghai Shanghai 201616
CN

68-79-24 (hex) ELS-GmbH & Co. KG
687924 (base 16) ELS-GmbH & Co. KG
Dammstrasse 21
Werther NRW 33824
DE

B0-26-80 (hex) Cisco Systems, Inc
B02680 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

F0-FC-C8 (hex) ARRIS Group, Inc.
F0FCC8 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

58-7A-6A (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
587A6A (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

F8-DF-15 (hex) Sunitec Enterprise Co.,Ltd
F8DF15 (base 16) Sunitec Enterprise Co.,Ltd
3F.,No.98-1,Mincyuan Rd.Sindian City
Taipei County 231 231141
CN

A8-61-0A (hex) ARDUINO AG
A8610A (base 16) ARDUINO AG
Corso San Gottardo 6A
Chiasso
6830
CH

60-97-DD (hex) MicroSys Electronics GmbH
6097DD (base 16) MicroSys Electronics GmbH
Muehlweg 1
Sauerlach 82054
DE

B4-1C-30 (hex) zte corporation
B41C30 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

70-5A-AC (hex) Samsung Electronics Co.,Ltd
705AAC (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350

KR

04-79-70 (hex) HUAWEI TECHNOLOGIES CO.,LTD
047970 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A0-57-E3 (hex) HUAWEI TECHNOLOGIES CO.,LTD
A057E3 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

1C-B0-44 (hex) ASKEY COMPUTER CORP
1CB044 (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW
TAIPEI TAIWAN 23585
TW

38-DE-AD (hex) Intel Corporate
38DEAD (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

D4-6D-6D (hex) Intel Corporate
D46D6D (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

F4-84-4C (hex) Texas Instruments
F4844C (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

4C-82-CF (hex) Dish Technologies Corp
4C82CF (base 16) Dish Technologies Corp
94 Inverness Terrace E
Englewood CO 80112
US

28-57-67 (hex) Dish Technologies Corp
285767 (base 16) Dish Technologies Corp
94 Inverness Terrace E

Englewood CO 80112
US

70-16-9F (hex) EtherCAT Technology Group
70169F (base 16) EtherCAT Technology Group
Ostendstr. 196
NUremberg 90482
DE

3C-57-4F (hex) China Mobile Group Device Co.,Ltd.
3C574F (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng
District
Beijing 100053
CN

1C-A0-B8 (hex) Hon Hai Precision Industry Co., Ltd.
1CA0B8 (base 16) Hon Hai Precision Industry Co., Ltd.
GuangDongShenZhen
ShenZhen GuangDong 518109
CN

8C-16-45 (hex) LCFC(HeFei) Electronics Technology co., ltd
8C1645 (base 16) LCFC(HeFei) Electronics Technology co., ltd
YunGu Road 3188-1
Hefei Anhui 230000
CN

68-98-61 (hex) Beacon Inc
689861 (base 16) Beacon Inc
82-1, Anyangcheondong-ro, Dongan-gu
anyang Gyeonggi-do 14042
KR

B4-F2-E8 (hex) ARRIS Group, Inc.
B4F2E8 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

60-98-13 (hex) Shanghai Visking Digital Technology Co. LTD
609813 (base 16) Shanghai Visking Digital Technology Co. LTD
Room 1301, Building A8, No.1688 Guoquan North Road, Yangpu District
Shanghai 200082
CN

2C-95-69 (hex) ARRIS Group, Inc.
2C9569 (base 16) ARRIS Group, Inc.

6450 Sequence
Drive
San Diego CA 92121
US

50-6B-4B (hex) Mellanox Technologies, Inc.
506B4B (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway, Suite 100
Sunnyvale CA 94085
US

A0-39-EE (hex) Sagemcom Broadband SAS
A039EE (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

E4-CB-59 (hex) Beijing Loveair Science and Technology Co. Ltd.
E4CB59 (base 16) Beijing Loveair Science and Technology Co. Ltd.
103,Block B, Kelin Building, No.107, Dongsi North Street, Dongcheng District,
Beijing 100000
CN

D4-A3-3D (hex) Apple, Inc.
D4A33D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E4-30-22 (hex) Hanwha Techwin Security Vietnam
E43022 (base 16) Hanwha Techwin Security Vietnam
Plot O-2, Que Vo industrial park (Expanded area),
Nam Son Commune, Bac Ninh City Bac Ninh Province 000
VN

04-4F-17 (hex) HUMAX Co.,
Ltd.
044F17 (base 16) HUMAX Co., Ltd.
HUMAX Village, 216, Hwangsaeul-ro, Bu
Seongnam-si Gyeonggi-do 463-875
KR

D8-9C-67 (hex) Hon Hai Precision Ind. Co.,Ltd.
D89C67 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

68-5A-CF (hex) Samsung Electronics Co.,Ltd
685ACF (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

0C-A8-A7 (hex) Samsung Electronics Co.,Ltd
0CA8A7 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B0-67-2F (hex) Bowers & Wilkins
B0672F (base 16) Bowers & Wilkins
900 Middlefield Rd Floor 4
Redwood City CA 94063
US

84-74-60 (hex) zte corporation
847460 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

B4-E6-2D (hex) Espressif Inc.
B4E62D (base 16) Espressif
Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

F0-76-6F (hex) Apple, Inc.
F0766F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

40-98-AD (hex) Apple, Inc.
4098AD (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

6C-4D-73 (hex) Apple, Inc.
6C4D73 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

10-CD-6E (hex) FISYS
10CD6E (base 16) FISYS
303 Expotel, 44, Dunsan-daero 117beon-gil, Seo-gu, Daejeon, Korea
Daejeon, Korea KS015
KR

68-EF-43 (hex) Apple, Inc.
68EF43 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D0-2B-20 (hex) Apple, Inc.
D02B20 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

2C-61-F6 (hex) Apple, Inc.
2C61F6 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D8-63-75 (hex) Xiaomi Communications
Co Ltd
D86375 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

80-C5-F2 (hex) AzureWave Technology Inc.
80C5F2 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

64-F8-8A (hex) China Mobile IOT Company Limited
64F88A (base 16) China Mobile IOT Company Limited
NO.8 Yu Ma Road, NanAn Area
Chongqing Chongqing 401336
CN

C8-DF-84 (hex) Texas Instruments
C8DF84 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243

US

24-0D-6C (hex) SMND
240D6C (base 16) SMND
16-39, LS-ro 91 beon-gil, Dongan-gu
Anyang-si Gyeonggi-do 14119
KR

68-DB-54 (hex) Phicomm (Shanghai) Co., Ltd.
68DB54 (base 16) Phicomm (Shanghai) Co., Ltd.
3666 SiXian Rd.,Songjiang District
Shanghai Shanghai 201616
CN

E4-8F-34 (hex) Vodafone Italia S.p.A.
E48F34
(base 16) Vodafone Italia S.p.A.
Via Lorenteggio nr. 240
Milan Italy 20147
IT

64-20-9F (hex) Tilgin AB
64209F (base 16) Tilgin AB
Finlandsgatan 40
Kista 16474
SE

A4-3E-51 (hex) ANOV FRANCE
A43E51 (base 16) ANOV FRANCE
100 CHEMIN DE BAILLOT
MONTAUBAN 82000
FR

70-26-05 (hex) SONY Visual Products Inc.
702605 (base 16) SONY Visual Products Inc.
2-10-1 Osaki
Shinagawa-ku Tokyo 141-8610
JP

00-90-F1 (hex) Seagate Cloud Systems Inc
0090F1 (base 16) Seagate Cloud Systems Inc
6305 El Camino Real
Carlsbad CA 92009
US

84-5A-81 (hex) ffly4u
845A81 (base 16) ffly4u
3, avenue Didier Daurat

Toulouse 31400
FR

CC-81-DA (hex) Phicomm (Shanghai) Co., Ltd.
CC81DA (base 16) Phicomm (Shanghai) Co., Ltd.
3666 SiXian Rd.,Songjiang District
Shanghai Shanghai 201616
CN

00-80-6C (hex) Secure Systems & Services
00806C (base 16) Secure Systems & Services
24,
Chemin de la Pouranque
F-13752 LES PENNES MIRABEAU CS30084
FR

D8-E0-04 (hex) Vodia Networks Inc
D8E004 (base 16) Vodia Networks Inc
33 Broad St
Boston MA 02109
US

2C-FD-AB (hex) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
2CFDAB (base 16) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
No.19, Gaoxin 4th Road, Wuhan East Lake High-tech Zone, Wuhan
Wuhan Hubei 430000
CN

30-B4-B8 (hex) LG Electronics
30B4B8 (base 16) LG Electronics
222 LG-ro, JINWI-MYEON
Pyeongtaek-si Gyeonggi-do 451-713
KR

30-EB-1F (hex) Skylab M&C Technology Co.,Ltd
30EB1F (base 16) Skylab M&C Technology Co.,Ltd
6 Floor,No.9 Building,Lijincheng Scientific&Technical park,Gongye East Road,Longhua District
Shenzhen Guangdong 518109
CN

54-9A-4C (hex) GUANGDONG HOMECARE TECHNOLOGY CO.,LTD.
549A4C (base 16) GUANGDONG HOMECARE TECHNOLOGY CO.,LTD.
8F,12#, Taihua Industrial
Park, Hangkong Rd., Gushu Baoan District
Shenzhen Guangdong 518128
CN

0C-CE-F6 (hex) Guizhou Fortuneship Technology Co., Ltd

0CCEF6 (base 16) Guizhou Fortuneship Technology Co., Ltd
2nd Floor, Factory Building 4, Hi-Tech Industrial Park, Xinpu Economic Development Zone, Xinpu New District
Zunyi City Guizhou Province 56300
CN

18-06-FF (hex) Acer Computer(Shanghai) Limited.
1806FF (base 16) Acer Computer(Shanghai) Limited.
Room1806-20, No.769, Jiujiang Road, Huangpu District
Shanghai 200000
CN

1C-27-DD (hex) Datang Gohighsec(zhejiang)Information Technology Co.,Ltd.
1C27DD (base 16) Datang Gohighsec(zhejiang)Information Technology Co.,Ltd.
Beiwu Innovation park, #23 Beiwu Villiage Road
Beijing Beijing 100000
CN

B8-C8-EB (hex) ITEL MOBILE LIMITED
B8C8EB (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON
999077
HK

D0-7F-C4 (hex) Ou Wei Technology Co.Ltd. of Shenzhen City
D07FC4 (base 16) Ou Wei Technology Co.Ltd. of Shenzhen City
Registered Address: Room 201, Block D, Huahan Innovation Park, Langshan Road, Xili Street, Nanshan District,
Shenzhen Guangdong 518057
CN

14-79-F3 (hex) China Mobile Group Device Co.,Ltd.
1479F3 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

B4-52-53 (hex) Seagate Technology
B45253 (base 16) Seagate Technology
1280 Disc Drive
Shakopee MN 55379
US

00-11-C6 (hex) Seagate Technology
0011C6 (base 16) Seagate Technology
M/S NW1F01
Longmont CO 80503
US

00-1D-38 (hex) Seagate Technology
001D38 (base 16) Seagate Technology
M/S NW1F01
Longmont CO 80503
US

00-50-13 (hex) Seagate Cloud Systems Inc
005013 (base 16) Seagate Cloud Systems Inc
7420 E. Dry Creek Parkway
Longmont CO
80503
US

48-55-5C (hex) Wu Qi Technologies,Inc.
48555C (base 16) Wu Qi Technologies,Inc.
Xiantao street data on the 19th East Road
Chongqing City Yubei District 401120
CN

38-0E-4D (hex) Cisco Systems, Inc
380E4D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

38-73-EA (hex) IEEE Registration Authority
3873EA (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

4C-52-62 (hex) Fujitsu Technology Solutions GmbH
4C5262 (base 16) Fujitsu Technology Solutions GmbH
Buergermeister-Ulrich-Strasse 100
Augsburg Bayern 86199
DE

80-3B-F6 (hex) LOOK EASY INTERNATIONAL LIMITED
803BF6 (base 16) LOOK EASY INTERNATIONAL LIMITED
4th Floor, No. 551, Guang-Fu South Road
Taipei Xinyi District 11074
TW

DC-4F-22 (hex) Espressif Inc.
DC4F22 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai

201203
CN

F8-6C-E1 (hex) Taicang T&W Electronics
F86CE1 (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

1C-73-28 (hex) Connected Home
1C7328 (base 16) Connected Home
19-22, Rathbone Place
London W1T 1HY
GB

EC-1D-8B (hex) Cisco Systems, Inc
EC1D8B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

EC-70-97 (hex) ARRIS Group, Inc.
EC7097 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

58-19-F8 (hex) ARRIS Group, Inc.
5819F8 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-23-A0 (hex) Hana CNS Co., LTD.
0023A0 (base 16) Hana CNS Co., LTD.
Taejang-dong 1720-52 Taejang-NongGong-Danji
Wonju Gangwon-do 220-962
KR

F4-06-A5 (hex) Hangzhou Bianfeng Networking Technology Co., Ltd.
F406A5 (base 16) Hangzhou Bianfeng Networking Technology Co., Ltd.
BlockC2FBuilding
BParadise Software Park
Hangzhou Zhejiang 310012
CN

B0-EC-E1 (hex) Private
B0ECE1 (base 16) Private

18-F0-E4 (hex) Xiaomi Communications Co Ltd
18F0E4 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources , No.68 Qinghe Middle Street , Haidian District
Beijing Beijing 100089
CN

9C-8C-6E (hex) Samsung Electronics Co.,Ltd
9C8C6E (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

64-CB-A3 (hex) Pointmobile
64CBA3 (base 16) Pointmobile
B-9F kabul Great Valley, 32, Digital-ro 9-gil, Geumcheon-gu
Seoul Seoul 08512
KR

60-E7-8A (hex) UNISEM
60E78A (base 16) UNISEM
10-7,Jangjinam-gil,Dongtan-meyeon
Hwaseong-si Gyeonggi-do 18510
KR

10-46-B4 (hex) FormericaOE
1046B4 (base 16) FormericaOE
5F-11, No.38, Taiyuan Street
Zhubei City Hsinchu County 302
TW

9C-E3-3F (hex) Apple,
Inc.
9CE33F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

08-BA-22 (hex) Swaive Corporation
08BA22 (base 16) Swaive Corporation
3565 Kettmann Road
San Jose CA 95121
US

28-C1-3C (hex) Hon Hai Precision Industry Co., Ltd.
28C13C (base 16) Hon Hai Precision Industry Co., Ltd.
GuangDongShenZhen
ShenZhen GuangDong 518109

CN

C4-CD-82 (hex) Hangzhou Lowan Information Technology Co., Ltd.
C4CD82 (base 16) Hangzhou Lowan Information Technology Co., Ltd.
502 Building B, United Mansion, No.2 Zijinghua Road
Hangzhou Zhejiang 310023
CN

30-FB-94 (hex) Shanghai Fangzhiwei Information Technology CO.,Ltd.
30FB94 (base 16) Shanghai Fangzhiwei Information Technology CO.,Ltd.
The 17th Building A Unit,No. 1688 Lianhang Road,Minhang District,Shanghai City
Shanghai 201100
CN

A4-B5-2E (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
A4B52E (base 16) Integrated Device Technology
(Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

3C-A5-81 (hex) vivo Mobile Communication Co., Ltd.
3CA581 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

34-E9-11 (hex) vivo Mobile Communication Co., Ltd.
34E911 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

EC-FA-BC (hex) Espressif Inc.
ECFABC (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

00-BF-61 (hex) Samsung Electronics Co.,Ltd
00BF61 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

00-12-48 (hex) Dell EMC
001248 (base 16) Dell EMC
176 South Street

Hopkinton MA 01748
US

CC-2D-E0 (hex) Routerboard.com
CC2DE0 (base 16) Routerboard.com
Mikrotikls
SIA
Riga Riga LV1009
LV

00-60-48 (hex) Dell EMC
006048 (base 16) Dell EMC
171 SOUTH ST.,
HOPKINTON MA 01748
US

7C-C9-5A (hex) Dell EMC
7CC95A (base 16) Dell EMC
176 South Street
Hopkinton MA 01748
US

00-24-24 (hex) Ace Axis Limited
002424 (base 16) Ace Axis Limited
602 Delta Business Park, Welton Road
Swindon SN5 7XP
GB

50-C9-A0 (hex) SKIPPER AS
50C9A0 (base 16) SKIPPER AS
Enebakkvn 150
Oslo 0612
NO

74-83-EF (hex) Arista Networks
7483EF (base 16) Arista Networks
5453 Great America Parkway
Santa Clara CA 95054
US

00-E0-F6 (hex) DECISION EUROPE
00E0F6 (base 16) DECISION EUROPE
3, rue de Lattre de Tassigny
85170 SAINT DENIS LA CHEVASSE
FR

DC-55-83 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
DC5583 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD

NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG
523860
CN

F8-F2-1E (hex) Intel Corporate
F8F21E (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

28-29-86 (hex) APC by Schneider Electric
282986 (base 16) APC by Schneider Electric
800 Federal St.
Andover MA 01810
US

70-7D-B9 (hex) Cisco Systems, Inc
707DB9 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

08-BE-AC (hex) Edimax Technology Co. Ltd.
08BEAC (base 16) Edimax Technology Co. Ltd.
No. 278, Xinhu 1st Road
Taipei City Neihu Dist 248
TW

8C-0F-83 (hex) Angie Hospitality LLC
8C0F83 (base 16) Angie Hospitality LLC
12465 S Fort St, Ste 300
Draper UT 84020-9021
US

D0-04-01 (hex) Motorola Mobility LLC, a Lenovo Company
D00401 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

74-28-57 (hex) Mayfield Robotics
742857 (base 16) Mayfield Robotics
400
Convention Way
Redwood City CA 94063
US

24-E1-24 (hex) Xiamen Milesight IoT Co., Ltd.
24E124 (base 16) Xiamen Milesight IoT Co., Ltd.
Building C09, Software Park Phase III
Xiamen Fujian 361024
CN

DC-68-EB (hex) Nintendo Co.,Ltd
DC68EB (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

E8-36-1D (hex) Sense Labs, Inc.
E8361D (base 16) Sense Labs, Inc.
485 Massachusetts Ave
Cambridge MA 02139
US

78-67-D7 (hex) Apple, Inc.
7867D7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B8-C1-11 (hex) Apple, Inc.
B8C111 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

58-90-43 (hex) Sagemcom Broadband SAS
589043 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

48-D6-D5 (hex) Google, Inc.
48D6D5 (base 16) Google, Inc.
1600
Amphitheatre Parkway
Mountain View CA 94043
US

20-F1-9E (hex) ARRIS Group, Inc.
20F19E (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

C8-9F-42 (hex) VDII Innovation AB
C89F42 (base 16) VDII Innovation AB
Nedre Holländaregatan 5
Helsingborg 25225
SE

50-A8-3A (hex) S Mobile Devices Limited
50A83A (base 16) S Mobile Devices Limited
Unit B-303, 3rd Floor, Tower-B, Plot No-7,Advant IT Park Ltd , Sector-142
NOIDA Uttar Pradesh 201301
IN

64-05-E9 (hex) Shenzhen WayOS Technology Crop., Ltd.
6405E9 (base 16) Shenzhen WayOS Technology Crop., Ltd.
F18, Yousong Business Building, Longhua New District, Shenzhen, China
Shenzhen Guangdong 518109
CN

38-9D-92 (hex) Seiko Epson Corporation
389D92 (base 16) Seiko Epson Corporation
2070 Kotobuki Koaka
Matsumoto-shi Nagano-ken 399-8702
JP

A0-70-99 (hex) Beijing Huacan Electronics Co., Ltd
A07099
(base 16) Beijing Huacan Electronics Co., Ltd
NO.122, Room 2006, 20/F, Qingyun Contemporary Tower, Building 9, Manting Fangyuan Residential District, Qing Yun Li, Hai Dian District
Beijing 100036
CN

40-49-8A (hex) Synapticon GmbH
40498A (base 16) Synapticon GmbH
Daimlerstr. 26
Schönaich 71101
DE

F4-F5-DB (hex) Xiaomi Communications Co Ltd
F4F5DB (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

08-78-08 (hex) Samsung Electronics Co.,Ltd
087808 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong

Gumi Gyeongbuk 730-350
KR

88-75-98 (hex) Samsung Electronics Co.,Ltd
887598 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C0-17-4D (hex) Samsung Electronics Co.,Ltd
C0174D (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk
730-350
KR

A4-07-B6 (hex) Samsung Electronics Co.,Ltd
A407B6 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

CC-22-37 (hex) IEEE Registration Authority
CC2237 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

70-91-F3 (hex) Universal Electronics, Inc.
7091F3 (base 16) Universal Electronics, Inc.
201 E. Sandpointe Ave
Santa Ana CA 92707
US

A8-E8-24 (hex) INIM ELECTRONICS S.R.L.
A8E824 (base 16) INIM ELECTRONICS S.R.L.
VIA DEI LAVORATORI 10 - FRAZIONE CENTOBUCHI
MONTEPRANDONE ASCOLI PICENO 63076
IT

38-D6-20 (hex) Limidea Concept Pte. Ltd.
38D620 (base 16) Limidea Concept Pte. Ltd.
101 Cecil Street #09-07, Tong Eng Building
Singapore Singapore 069533
SG

08-00-69 (hex) Silicon Graphics
080069 (base 16) Silicon Graphics

2011 N. SHORELINE BLVD.
MOUNTAIN VIEW CA 94039-7311
US

00-22-91 (hex) Cisco
Systems, Inc
002291 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

10-FC-B6 (hex) mirusystems CO.,LTD
10FCB6 (base 16) mirusystems CO.,LTD
#1001, 2-dong, Pangoyo seven venture valley, 228-gil, Pangyo-ro
Bundang-gu, Seongnam-si, Gyeonggi-do 13487
KR

04-D6-AA (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
04D6AA (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T. Bangsamak SEMTHAI, WELLGROW INDUSTRIAL ESTATE
Bangpakong Chachoengsao 24180
TH

0C-58-42 (hex) DME Micro
0C5842 (base 16) DME Micro
unit 310 Lakeside 1, 8 Science Park West Ave, Shatin
Hong Kong Hong Kong
HK

74-F9-1A (hex) Onface
74F91A (base 16) Onface
#1408, Mario Tower, 30Gil-28, Digital-ro, Guro-gu
Seoul 08389
KR

A4-34-F1 (hex) Texas Instruments
A434F1 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

BC-3D-85 (hex) HUAWEI TECHNOLOGIES CO.,LTD
BC3D85
(base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

20-54-FA (hex) HUAWEI TECHNOLOGIES CO.,LTD
2054FA (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

38-37-8B (hex) HUAWEI TECHNOLOGIES CO.,LTD
38378B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

10-49-63 (hex) HARTING K.K.
104963 (base 16) HARTING K.K.
1-7-9, Shin-Yokohama, Kohoku-ku
Yokohama-city Kanagawa 222-0033
JP

BC-82-5D (hex) MITSUMI ELECTRIC CO.,LTD.
BC825D (base 16) MITSUMI ELECTRIC CO.,LTD.
2-11-2, Tsurumaki
Tama-shi Tokyo 206-8567
JP

D0-66-6D (hex) Shenzhen Bus-Lan Technology Co., Ltd.
D0666D (base 16) Shenzhen Bus-Lan Technology Co., Ltd.
928-931 Chuangke Building, 72-1 South Huanguan Rd, Guan Lan Jie Dao, Longhua District
Shenzhen Guangdong 518100
CN

74-5C-4B (hex) GN Audio A/S
745C4B (base 16) GN Audio A/S
Lautrupbjerg 7
Ballerup DK-2750
DK

00-14-9D (hex) Sound ID Inc.
00149D (base 16) Sound ID Inc.
3430 West Bayshore Road
Palo Alto California 94303
US

08-15-2F (hex) Samsung Electronics Co., Ltd. ARTIK
08152F (base 16) Samsung Electronics Co., Ltd. ARTIK
1-1, Samsungjeonja-ro
Hwaseong-si Gyeonggi-do 18448
KR

B8-EE-0E (hex) Sagemcom Broadband SAS
B8EE0E (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

00-06-59 (hex) EAL (Apeldoorn) B.V.
000659 (base 16) EAL (Apeldoorn) B.V.
Molenmakershoek 14
Apeldoorn 7328JK
NL

EC-D0-9F (hex) Xiaomi Communications Co Ltd
ECD09F (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District,
Beijing 100085
CN

78-E1-03 (hex) Amazon Technologies Inc.
78E103 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

8C-E3-8E (hex) Kioxia Corporation
8CE38E (base 16) Kioxia Corporation
1-21, Shibaura 3-chome
Minato-ku Tokyo 108-0023
JP

18-60-24 (hex) Hewlett Packard
186024 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston TX 77070
US

78-A6-E1 (hex) Brocade Communications Systems LLC
78A6E1 (base 16) Brocade Communications Systems LLC
1320 Ridder Park Dr
San Jose CA 95131
US

E4-EC-10 (hex) Nokia Corporation
E4EC10 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu Ou 90590

FI

8C-D4-8E (hex) ITEL MOBILE LIMITED
8CD48E (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

64-2B-8A (hex) ALL BEST Industrial Co., Ltd.
642B8A (base
16) ALL BEST Industrial Co., Ltd.
6F., No.210-20, Sec. 3, Zhongyang Rd., Tucheng Dist.,
New Taipei City 23680
TW

00-26-92 (hex) Mitsubishi Electric Corporation
002692 (base 16) Mitsubishi Electric Corporation
2-7-3 Marunouchi
Chiyoda-ku Tokyo 100-8310
JP

44-4E-6D (hex) AVM Audiovisuelles Marketing und Computersysteme GmbH
444E6D (base 16) AVM Audiovisuelles Marketing und Computersysteme GmbH
Alt-Moabit 95
Berlin Berlin 10559
DE

90-B1-E0 (hex) Beijing Nebula Link Technology Co., Ltd
90B1E0 (base 16) Beijing Nebula Link Technology Co., Ltd
Room 1201, Building C, Caizhi International Plaza, Haidian District
Beijing 100083
CN

6C-09-0A (hex) GEMATICA SRL
6C090A (base 16) GEMATICA SRL
Via Diocleziano, 107
NAPOLI 80125
IT

70-E1-FD (hex) FLEXTRONICS
70E1FD (base 16) FLEXTRONICS
Carretera Base Aerea 5850 int 4
Zapopan Jalisco 45136
MX

74-E6-0F (hex) TECNO
MOBILE LIMITED
74E60F (base 16) TECNO MOBILE LIMITED

ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

00-1A-A7 (hex) Torian Wireless
001AA7 (base 16) Torian Wireless
204 Johnston Street
Collingwood Victoria 3066
AU

00-C0-8F (hex) Panasonic Electric Works Co., Ltd.
00C08F (base 16) Panasonic Electric Works Co., Ltd.
Tsu-Factory
Mie-ken 514-8555 0000
JP

8C-C1-21 (hex) Panasonic Corporation AVC Networks Company
8CC121 (base 16) Panasonic Corporation AVC Networks Company
1-15 Matsuo-cho
Kadoma Osaka 571-8504
JP

EC-04-41 (hex) ShenZhen TIGO Semiconductor Co., Ltd.
EC0441 (base 16) ShenZhen TIGO Semiconductor Co., Ltd.
Room B6-709, Funian Plaza, No.3 Shihua Road, Futian Bonded Area
shenzhen China / Guangdong 518048
CN

B0-35-0B (hex) MOBIWIRE MOBILES (NINGBO) CO.,LTD
B0350B (base
16) MOBIWIRE MOBILES (NINGBO) CO.,LTD
No.999,Dacheng East Road,
Fenghua Zhejiang 315500
CN

28-A6-AC (hex) seca gmbh & co. kg
28A6AC (base 16) seca gmbh & co. kg
Hammer Steindamm 3-25
Hamburg Germany 22089
DE

AC-BE-75 (hex) Ufine Technologies Co.,Ltd.
ACBE75 (base 16) Ufine Technologies Co.,Ltd.
46, Geumgok-dong, Bundang-gu
Seong-nam-si Gyeonggi-do 463-804
KR

A8-BE-27 (hex) Apple, Inc.
A8BE27 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C0-A5-3E (hex) Apple, Inc.
C0A53E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

0C-B4-59 (hex) Marketech International Corp.
0CB459 (base 16) Marketech International Corp.
10F.,NO.3-2,Yuancyu St.,Nangang Dist.
Taipei 11503
TW

80-14-A8 (hex) Guangzhou V-SOLUTION Electronic Technology Co., Ltd.
8014A8 (base 16) Guangzhou V-SOLUTION Electronic Technology Co., Ltd.
Room 406,Originality
Building B3, NO.162 Science Avenue,Science Town
Guangzhou Guangdong 510663
CN

58-61-63 (hex) Quantum Networks (SG) Pte. Ltd.
586163 (base 16) Quantum Networks (SG) Pte. Ltd.
8, UBI ROAD, 2 ZERVEX #08-10,
Singapore 408538
SG

40-9B-CD (hex) D-Link International
409BCD (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy, Singapore
Singapore Singapore 609917
SG

00-2E-C7 (hex) HUAWEI TECHNOLOGIES CO.,LTD
002EC7 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

48-8E-EF (hex) HUAWEI TECHNOLOGIES CO.,LTD
488EEF (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

54-75-95 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
547595 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology
Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

C4-71-54 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
C47154 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

50-E9-71 (hex) Jibo, Inc.
50E971 (base 16) Jibo, Inc.
230 Congress Street
Boston MA 02110
US

30-F7-7F (hex) S Mobile Devices Limited
30F77F (base 16) S Mobile Devices Limited
Unit B-303, 3rd Floor, Tower-B, Plot No-7,Advant IT Park Ltd , Sector-142
NOIDA Uttar Pradesh 201301
IN

D8-6C-63 (hex) Google, Inc.
D86C63 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

08-40-F3 (hex) Tenda Technology Co.,Ltd.Dongguan branch
0840F3 (base 16) Tenda Technology Co.,Ltd.Dongguan branch
Room 79,Yuanyi Road,Dalang Town,Dongguan Guangdong 523770
Dongguan Guangdong 523770
CN

94-FB-B2
(hex) SHENZHEN GONGJIN ELECTRONICS CO.,LT
94FBB2 (base 16) SHENZHEN GONGJIN ELECTRONICS CO.,LT
No.1, Songgang Avenue, Songgang Street, Bao’an District
Shenzhen Guangdong 518105
CN

94-D0-29 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
94D029 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,

DONG GUAN GUANG DONG 523860
CN

30-84-54 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
308454 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

5C-03-39 (hex) HUAWEI TECHNOLOGIES CO.,LTD
5C0339 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F8-28-19 (hex) Liteon Technology Corporation
F82819 (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

EC-3D-FD (hex) SHENZHEN
BILIAN ELECTRONIC CO.LTD
EC3DFD (base 16) SHENZHEN BILIAN ELECTRONIC CO.LTD
NO.268 Fuqian Rd, Jutang community, Guanlan Town, Longhua New district
shenzhen guangdong 518000
CN

00-1E-99 (hex) Vantanol Industrial Corporation
001E99 (base 16) Vantanol Industrial Corporation
9F, NO 31 . Shin-Tai Road
Jubei City Shinchu 302
TW

58-B6-33 (hex) Ruckus Wireless
58B633 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

54-3D-37 (hex) Ruckus Wireless
543D37 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

5C-51-81 (hex) Samsung Electronics Co.,Ltd
5C5181 (base 16) Samsung Electronics Co.,Ltd

#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

60-8E-08 (hex) Samsung Electronics Co.,Ltd
608E08 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-C0-5D (hex) L&N TECHNOLOGIES
00C05D (base 16) L&N
TECHNOLOGIES
2899 AGOURA ROAD #196
WESTLAKE VILLAGE CA 91361-3200
US

FC-5A-1D (hex) Hitron Technologies. Inc
FC5A1D (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

94-14-7A (hex) vivo Mobile Communication Co., Ltd.
94147A (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

18-D2-25 (hex) Fiberhome Telecommunication Technologies Co.,LTD
18D225 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

F8-8A-3C (hex) IEEE Registration Authority
F88A3C (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

A4-04-50 (hex) nFore Technology Inc.
A40450 (base 16) nFore Technology Inc.
5F, NO 31, Ln 258, Rulguang Rd
Taipei Neihu District 11491
TW

18-B4-30 (hex) Nest

Labs Inc.
18B430 (base 16) Nest Labs Inc.
3400 Hillview Ave.
Palo Alto CA 94304
US

30-B1-64 (hex) Power Electronics International Inc.
30B164 (base 16) Power Electronics International Inc.
561-8 Plate Drive
East Dundee 60118
US

58-C5-83 (hex) ITEL MOBILE LIMITED
58C583 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

18-20-4C (hex) Kummler+Matter AG
18204C (base 16) Kummler+Matter AG
Hohlstrasse 176
Zürich 8004
CH

98-28-A6 (hex) COMPAL INFORMATION (KUNSHAN) CO., LTD.
9828A6 (base 16) COMPAL INFORMATION (KUNSHAN) CO., LTD.
NO. 25, THE 3RD Street KUNSHAN EXPORT PROCESSING ZONE
KUNSHAN SUZHOU 215300
CN

2C-E6-CC (hex) Ruckus Wireless
2CE6CC (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

00-22-7F (hex) Ruckus Wireless
00227F
(base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

74-91-1A (hex) Ruckus Wireless
74911A (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

88-0F-10 (hex) Huami Information Technology Co.,Ltd.
880F10 (base 16) Huami Information Technology Co.,Ltd.
Room 1201 Building A4, National Animation Industry Base
Hefei Anhui 230088
CN

14-61-2F (hex) Avaya Inc
14612F (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

00-30-9D (hex) Nimble Microsystems, Inc.
00309D (base 16) Nimble Microsystems, Inc.
50 Church Street - 5th Floor
Cambridge MA 02138
US

8C-21-0A (hex) TP-LINK TECHNOLOGIES CO.,LTD.
8C210A (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24 (floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park,Shennan Rd, Nanshan
shenzhen guangdong Province 518057
CN

4C-18-9A (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS
CORP.,LTD
4C189A (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

68-1D-EF (hex) Shenzhen CYX Technology Co., Ltd.
681DEF (base 16) Shenzhen CYX Technology Co., Ltd.
2/F, Bldg. 6, Guangxi Industrial Park, Jianshe Rd., Longhua New Dist., Shenzhen
Shenzhen 518109
CN

AC-20-3E (hex) Wuhan Tianyu Information Industry Co., Ltd.
AC203E (base 16) Wuhan Tianyu Information Industry Co., Ltd.
HUST Industry Park, East-Lake Development Zone
Wuhan Hubei 430223
CN

B0-1F-29 (hex) Helvetia INC.
B01F29 (base 16) Helvetia INC.
8-11 tokaichi-nishimachi, kitaku
Okayama okayama 7000856

JP

00-15-DC (hex) KT&C Co., Ltd.
0015DC (base 16) KT&C Co., Ltd.
487-4, KT&C Bldg.
GangSeo-Ku Seoul 157-849
KR

00-18-7D (hex) Armorlink Co .Ltd
00187D (base 16) Armorlink Co .Ltd
No. 515 of Xinzhuang Industry Park Shenfu Road
Shanghai
Province Shanghai 201108
CN

F4-30-B9 (hex) Hewlett Packard
F430B9 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston TX 77070
US

CC-4B-73 (hex) AMPAK Technology, Inc.
CC4B73 (base 16) AMPAK Technology, Inc.
No.1,Jen Ai Road Hsinchu Industrial Park, Hukou
Hsinchu Taiwan ROC. 30352
TW

00-1B-17 (hex) Palo Alto Networks
001B17 (base 16) Palo Alto Networks
3000 Tannery Way
Santa Clara CA 95054
US

58-49-3B (hex) Palo Alto Networks
58493B (base 16) Palo Alto Networks
3000 Tannery Way
Santa Clara CA 95054
US

78-6D-94 (hex) Palo Alto Networks
786D94 (base 16) Palo Alto Networks
3000 Tannery Way
Santa Clara CA 95054
US

94-3F-C2 (hex) Hewlett Packard Enterprise
943FC2 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.

Roseville CA 95747
US

C8-DB-26 (hex) Logitech
C8DB26 (base 16) Logitech
7700 Gateway Blvd
Newark
CA 94560
US

A4-0E-2B (hex) Facebook Inc
A40E2B (base 16) Facebook Inc
1 Hacker Way
Menlo Park CA 94025
US

AC-4E-2E (hex) Shenzhen JingHanDa Electronics Co.Ltd
AC4E2E (base 16) Shenzhen JingHanDa Electronics Co.Ltd
5th Floor,No 4 ,Road 1,ShangXue Technology industrial Park,LongGang district,ShenZhen,GuangDong,China
ShenZhen GuangDong 518129
CN

4C-91-0C (hex) Lanix Internacional, S.A. de C.V.
4C910C (base 16) Lanix Internacional, S.A. de C.V.
Carretera Nogales Km8.5
Hermosillo Sonora 83160
MX

54-C9-DF (hex) FN-LINK TECHNOLOGY LIMITED
54C9DF (base 16) FN-LINK TECHNOLOGY LIMITED
A Building,HuiXin industial park,No 31, YongHe road, Fuyong town, Bao'an District
SHENZHEN GUANGDONG 518100
CN

A4-78-86 (hex) Avaya Inc
A47886 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

F4-0E-83 (hex) ARRIS Group, Inc.
F40E83 (base 16) ARRIS Group, Inc.
6450
Sequence Drive
San Diego CA 92121
US

98-F7-D7 (hex) ARRIS Group, Inc.

98F7D7 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

74-F6-1C (hex) HTC Corporation
74F61C (base 16) HTC Corporation
No. 23, Xinghua Rd., Taoyuan City
Taoyuan County Taiwan 330
TW

2C-3A-E8 (hex) Espressif Inc.
2C3AE8 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

88-BD-78 (hex) Flaircomm Microelectronics,Inc.
88BD78 (base 16) Flaircomm Microelectronics,Inc.
7F, Guomai Building, Guomai Science and Technology Park, 116 East JiangBin Road,
Fuzhou Fujian 350015
CN

58-C5-CB (hex) Samsung Electronics Co.,Ltd
58C5CB (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B4-BF-F6 (hex) Samsung Electronics Co.,Ltd
B4BFF6 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi
Gyeongbuk 730-350
KR

04-03-D6 (hex) Nintendo Co.,Ltd
0403D6 (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

20-6B-E7 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
206BE7 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

18-2C-B4 (hex) Nectarsoft Co., Ltd.
182CB4 (base 16) Nectarsoft Co., Ltd.
330, Seongam-ro, Mapo-gu
Seoul Seoul 03920
KR

84-C0-EF (hex) Samsung Electronics Co.,Ltd
84C0EF (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

00-A3-8E (hex) Cisco Systems, Inc
00A38E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

5C-1A-6F (hex) Cambridge Industries(Group) Co.,Ltd.
5C1A6F (base 16) Cambridge Industries(Group) Co.,Ltd.
5/F,Building
8, 2388 ChenHang Road, MinHang District
shanghai 201114
CN

3C-4C-D0 (hex) CERAGON NETWORKS
3C4CD0 (base 16) CERAGON NETWORKS
24 RAUEL WALLENBERG STREET
TEL-AVIV 96719
IL

A0-C9-A0 (hex) Murata Manufacturing Co., Ltd.
A0C9A0 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

60-08-37 (hex) ivvi Scientific(Nanchang)Co.Ltd
600837 (base 16) ivvi Scientific(Nanchang)Co.Ltd
Coolpad Cyber Harbor,2nd Mengxi Road,Hi-TechIndustrial Park(North),NanShan District,ShenZhen,P.R.C.
shenzhen Guangdong 518057
CN

28-C6-3F (hex) Intel Corporate
28C63F (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

88-CC-45 (hex) Skyworth Digital Technology(Shenzhen) Co.,Ltd
88CC45 (base 16) Skyworth Digital Technology(Shenzhen) Co.,Ltd
7F,Block A,Skyworth Building,
Shenzhen Guangdong 518057
CN

B8-FF-B3 (hex) MitraStar Technology
Corp.
B8FFB3 (base 16) MitraStar Technology Corp.
No. 6, Innovation Road II,
Hsinchu 300
TW

EC-36-3F (hex) Markov Corporation
EC363F (base 16) Markov Corporation
650 Vaqueros Avenue, Suite A
Sunnyvale CA 94085
US

58-04-CB (hex) Tianjin Huisun Technology Co.,Ltd.
5804CB (base 16) Tianjin Huisun Technology Co.,Ltd.
4/f, Building 3, No 1 Haitai Huake Street (outside Ring Road)
Tianjin 300384
CN

60-D7-E3 (hex) IEEE Registration Authority
60D7E3 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

18-93-D7 (hex) Texas Instruments
1893D7 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

A8-B8-6E (hex) LG Electronics (Mobile Communications)
A8B86E (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

98-2D-BA (hex) Fibergate Inc.
982DBA (base 16) Fibergate Inc.
KDX

Shibadaimon.Bld 2F 2-10-12 Shibadaimon
Tokyo Minato-ku 1050012
JP

E0-D5-5E (hex) GIGA-BYTE TECHNOLOGY CO.,LTD.
E0D55E (base 16) GIGA-BYTE TECHNOLOGY CO.,LTD.
Pin-Jen City, Taoyuan, Taiwan, R.O.C.
Pin-Jen Taoyuan 324
TW

A0-40-A0 (hex) NETGEAR
A040A0 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

CC-90-E8 (hex) Shenzhen YOUHUA Technology Co., Ltd
CC90E8 (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

7C-4F-7D (hex) Sawwave
7C4F7D (base 16) Sawwave
SKn TechnoPark 1207
SeongNam-Si Gyenggi-do 13207
KR

9C-AC-6D (hex) Universal Electronics, Inc.
9CAC6D (base 16) Universal Electronics, Inc.
201 E. Sandpointe Ave
Santa Ana CA 92707
US

08-ED-02 (hex) IEEE Registration Authority
08ED02 (base 16) IEEE Registration Authority
445
Hoes Lane
Piscataway NJ 08554
US

E8-FD-E8 (hex) CeLa Link Corporation
E8FDE8 (base 16) CeLa Link Corporation
401-1, Partners Tower1, Gasan digital 1-ro 83, Geumcheon-gu
Seoul 08589
KR

C4-0B-CB (hex) Xiaomi Communications Co Ltd

C40BCB (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

00-0D-2B (hex) Racal Instruments
000D2B (base 16) Racal Instruments
4 Goodyear Street
Irvine CA 92618
US

00-40-66 (hex) APRESIA Systems Ltd
004066 (base 16) APRESIA Systems Ltd
Tsukuba Network Technical Center, Kidamari 3550
Tsuchiura-shi Ibaraki-ken 300-0026
JP

48-A7-4E (hex) zte corporation
48A74E (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

BC-8A-E8 (hex) QING DAO HAIER TELECOM CO.,LTD.
BC8AE8 (base 16) QING DAO HAIER
TELECOM CO.,LTD.
No 1 Haier Road Hi-tech Zone
Qingdao 266000
CN

F4-DE-0C (hex) ESPOD Ltd.
F4DE0C (base 16) ESPOD Ltd.
6 Marjanishvili St. (Green Building) | 0102 Tbilisi | Georgia
Tbilisi Tbilisi 0102
GE

3C-52-82 (hex) Hewlett Packard
3C5282 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston TX 77070
US

B8-37-65 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
B83765 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

34-5B-BB (hex) GD Midea Air-Conditioning Equipment Co.,Ltd.
345BBB (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
Midea Global Innovation Center,Beijiao Town,Shunde
Foshan Guangdong 528311
CN

7C-7B-8B (hex) Control Concepts, Inc.
7C7B8B (base 16) Control Concepts, Inc.
18760 Lake Dr. East
Chanhassen MN 55317
US

84-A9-C4 (hex) HUAWEI TECHNOLOGIES CO.,LTD
84A9C4
(base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A0-08-6F (hex) HUAWEI TECHNOLOGIES CO.,LTD
A0086F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

34-CE-00 (hex) XIAOMI Electronics,CO.,LTD
34CE00 (base 16) XIAOMI Electronics,CO.,LTD
Xiaomi Building, No.68 Qinghe Middle Street
Haidian District Beijing 100085
CN

D0-6F-82 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D06F82 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A0-F4-79 (hex) HUAWEI TECHNOLOGIES CO.,LTD
A0F479 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

84-47-65 (hex) HUAWEI TECHNOLOGIES CO.,LTD
844765 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2
Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808

CN

C4-FF-1F (hex) HUAWEI TECHNOLOGIES CO.,LTD
C4FF1F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A0-C4-A5 (hex) SYGN HOUSE INC.
A0C4A5 (base 16) SYGN HOUSE INC.
2-9-14 Tamagawa-denenchofu
Setagaya-ku Tokyo 1580085
JP

5C-C6-E9 (hex) Edifier International
5CC6E9 (base 16) Edifier International
Suit 2207, 22nd floor, Tower II, Lippo centre, 89 Queensway
Hong Kong 070
CN

08-EA-40 (hex) SHENZHEN BILIAN ELECTRONIC CO.LTD
08EA40 (base 16) SHENZHEN BILIAN ELECTRONIC CO.LTD
NO.268 Fuqian Rd, Jutang community, Guanlan Town, Longhua New district
shenzhen guangdong 518000
CN

84-AF-EC (hex) BUFFALO.INC
84AFEC (base 16) BUFFALO.INC
AKAMONDORI Bld.,30-20,Ohsu 3-chome,Naka-ku
Nagoya Aichi Pref. 460-8315
JP

14-BD-61 (hex) Apple,
Inc.
14BD61 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

98-DD-EA (hex) Infinix mobility limited
98DDEA (base 16) Infinix mobility limited
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
HongKong HongKong 999077
HK

00-1D-44 (hex) Krohne
001D44 (base 16) Krohne

Ludwig-Krohne-Str. 5
Duisburg 47058
DE

A8-A1-98 (hex) TCT mobile ltd
A8A198 (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

E0-C0-D1 (hex) CK Telecom (Shenzhen) Limited
E0C0D1 (base 16) CK Telecom (Shenzhen) Limited
Floor 9th, Building 4C,Software Industry Base, Xuefu Road, Hi-Tech Park, Nanshan Dist.
Shenzhen Guangdong 518057
CN

C0-D3-C0 (hex) Samsung Electronics Co.,Ltd
C0D3C0 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

94-8B-C1 (hex) Samsung
Electronics Co.,Ltd
948BC1 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

14-56-8E (hex) Samsung Electronics Co.,Ltd
14568E (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

68-37-E9 (hex) Amazon Technologies Inc.
6837E9 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

2C-A1-7D (hex) ARRIS Group, Inc.
2CA17D (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

D8-32-14 (hex) Tenda Technology Co.,Ltd.Dongguan branch

D83214 (base 16) Tenda Technology Co.,Ltd.Dongguan branch
Room 79,Yuanyi Road,Dalang Town,Dongguan Guangdong 523770
Dongguan Guangdong 523770
CN

10-95-4B (hex) Megabyte Ltd.
10954B (base 16) Megabyte Ltd.
Unit 507, 5/F, Building 12W, NO.12 Science Park Avenue, Hong Kong Science Park, Shatin, New Territories
Hong Kong NA
HK

00-D0-95 (hex) Alcatel-Lucent
Enterprise
00D095 (base 16) Alcatel-Lucent Enterprise
26801 West Agoura Road
Calabasas CA 91301
US

00-20-DA (hex) Alcatel-Lucent Enterprise
0020DA (base 16) Alcatel-Lucent Enterprise
26801 West Agoura Road
CALABASAS CA 91301
US

6C-59-76 (hex) Shanghai Tricheer Technology Co.,Ltd.
6C5976 (base 16) Shanghai Tricheer Technology Co.,Ltd.
Rm 907, Building 1, Lane 399, Shengxia Road,Zhangjiang Hi-Tech Park,Pudong District,Shanghai
Shanghai Shanghai 201203
CN

D0-49-8B (hex) ZOOM SERVER
D0498B (base 16) ZOOM SERVER
North keyuan Road
Shenzhen 518057
CN

08-27-CE (hex) NAGANO KEIKI CO., LTD.
0827CE (base 16) NAGANO KEIKI CO., LTD.
2150 IKUTA
UEDA NAGANO 386-0411
JP

00-21-9E (hex) Sony Corporation
00219E (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

AC-B5-7D (hex) Liteon Technology Corporation
ACB57D (base 16) Liteon
Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

D4-61-9D (hex) Apple, Inc.
D4619D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

50-3A-7D (hex) AlphaTech PLC Int'l Co., Ltd.
503A7D (base 16) AlphaTech PLC Int'l Co., Ltd.
13F., No.618, Sec. 7, New Taipei Blvd., Xinzhuang Dist.,
New Taipei City 24260
TW

F4-C4-D6 (hex) Shenzhen Xinfa Electronic Co.,ltd
F4C4D6 (base 16) Shenzhen Xinfa Electronic Co.,ltd
No 57, Baoli Road, Buji Town
Longgang District Shenzhen, Guangdong 518112
CN

7C-50-49 (hex) Apple, Inc.
7C5049 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E4-7D-EB (hex) Shanghai Notion Information Technology CO.,LTD.
E47DEB (base 16) Shanghai Notion Information Technology CO.,LTD.
Room 201,Building 3,NO 289,Bisheng Rd,Pudong district,Shanghai,China
Shanghai Shanghai 201203
CN

D8-32-5A (hex) Shenzhen
YOUHUA Technology Co., Ltd
D8325A (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

9C-DA-3E (hex) Intel Corporate
9CDA3E (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000

MY

C4-B9-CD (hex) Cisco Systems, Inc
C4B9CD (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

EC-4F-82 (hex) Calix Inc.
EC4F82 (base 16) Calix Inc.
2777 Orchard Pkwy
San Jose CA 95131
US

00-2C-C8 (hex) Cisco Systems, Inc
002CC8 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

C0-02-8D (hex) WINSTAR Display CO.,Ltd
C0028D (base 16) WINSTAR Display CO.,Ltd
1F., No.77, Ln. 188, Pinghe S. Rd., Daya Dist., Taichung City 428, Taiwan (R.O.C.)
Taichung City 428
TW

E8-9F-EC (hex) CHENGDU KT ELECTRONIC HI-TECH
CO.,LTD
E89FEC (base 16) CHENGDU KT ELECTRONIC HI-TECH CO.,LTD
No.9, 3rd Wuke Road, Wuhou District
Chengdu Sichuan Province 610045
CN

80-26-89 (hex) D-Link International
802689 (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy, Singapore
Singapore Singapore 609917
SG

F8-AB-05 (hex) Sagemcom Broadband SAS
F8AB05 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

00-10-81 (hex) DPS, INC.
001081 (base 16) DPS, INC.
4922 EAST YALE AVENUE

FRESNO CA 93727
US

40-F3-85 (hex) IEEE Registration Authority
40F385 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

88-78-73 (hex) Intel Corporate
887873 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

50-1E-2D (hex) StreamUnlimited Engineering GmbH
501E2D (base 16) StreamUnlimited Engineering
GmbH
Gutheil-Schoder-Gasse 10
Vienna 1100
AT

E4-5D-51 (hex) SFR
E45D51 (base 16) SFR
12 rue jean-philippe Rameau CS 80001
La plaine saint denis FRANCE 93634
FR

D4-61-FE (hex) Hangzhou H3C Technologies Co., Limited
D461FE (base 16) Hangzhou H3C Technologies Co., Limited
466 Changhe Road, Binjiang District
Hangzhou Zhejiang, P.R.China 310052
CN

F8-75-88 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F87588 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F4-4C-7F (hex) HUAWEI TECHNOLOGIES CO.,LTD
F44C7F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A0-A3-3B (hex) HUAWEI TECHNOLOGIES CO.,LTD
A0A33B (base 16) HUAWEI TECHNOLOGIES CO.,LTD

No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

28-3F-69 (hex) Sony
Corporation
283F69 (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

00-23-8A (hex) Ciena Corporation
00238A (base 16) Ciena Corporation
920 Elkridge Landing
Linthicum MD 21090
US

7C-67-A2 (hex) Intel Corporate
7C67A2 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

2C-4D-54 (hex) ASUSTek COMPUTER INC.
2C4D54 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

34-96-72 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
349672 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

64-B4-73 (hex) Xiaomi Communications Co Ltd
64B473 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

74-51-BA
(hex) Xiaomi Communications Co Ltd
7451BA (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

6C-B4-A7 (hex) Landauer, Inc.
6CB4A7 (base 16) Landauer, Inc.
2 Science Road
Glenwood IL 60425
US

48-A3-80 (hex) Gionee Communication Equipment Co.,Ltd.
48A380 (base 16) Gionee Communication Equipment Co.,Ltd.
21/F,Times Technology Building,No. 7028,Shennan Avenue,Futian District
Shenzhen 518000
CN

94-65-2D (hex) OnePlus Technology (Shenzhen) Co., Ltd
94652D (base 16) OnePlus Technology (Shenzhen) Co., Ltd
18C02, 18C03, 18C04 ,18C05,TAIRAN BUILDING,
Shenzhen Guangdong 518000
CN

B0-F1-EC (hex) AMPAK Technology, Inc.
B0F1EC (base 16) AMPAK Technology, Inc.
No.1,Jen Ai Road Hsinchu Industrial Park, Hukou
Hsinchu Taiwan ROC. 30352
TW

54-2B-57 (hex) Night Owl SP
542B57 (base 16) Night
Owl SP
4720 Radio Rd
Naples FL 34104
US

08-00-27 (hex) PCS Systemtechnik GmbH
080027 (base 16) PCS Systemtechnik GmbH
600 Suffold St
Lowell MA 01854
US

EC-01-EE (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
EC01EE (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

60-49-C1 (hex) Avaya Inc
6049C1 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

70-20-84 (hex) Hon Hai Precision Industry Co., Ltd.
702084 (base 16) Hon Hai Precision Industry Co., Ltd.
GuangDongShenZhen
ShenZhen GuangDong 518109
CN

9C-66-50 (hex) Glodio Technolies Co.,Ltd Tianjin Branch
9C6650 (base 16) Glodio Technolies Co.,Ltd Tianjin Branch
Room 904, No.1-2 LanYuan Road, HuaYuan Industrial Area
TianJin TianJin 300384
CN

00-60-D3 (hex) AT&T
0060D3 (base 16) AT&T
3300 E Renner Road
Richardson
TX 75082
US

84-8D-C7 (hex) Cisco SPVTG
848DC7 (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

04-5D-4B (hex) Sony Corporation
045D4B (base 16) Sony Corporation
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

78-AF-58 (hex) GIMASI SA
78AF58 (base 16) GIMASI SA
Via Luigi Lavizzari 18
Mendrisio TI 6850
CH

00-E0-5A (hex) GALEA NETWORK SECURITY
00E05A (base 16) GALEA NETWORK SECURITY
2 PLACE du COMMERCE - STE #320
BROSSARD, QUEBEC J4W 2T8
CA

F0-6E-32 (hex) MICROTEL INNOVATION S.R.L.
F06E32 (base 16) MICROTEL INNOVATION S.R.L.
Via Armentera 8
BORGO VALSUGANA TN 38051

IT

3C-F8-62 (hex) Intel Corporate
3CF862 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

F8-A5-C5 (hex) Cisco Systems, Inc
F8A5C5 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

7C-5A-1C (hex) Sophos
Ltd
7C5A1C (base 16) Sophos Ltd
The Pentagon
Abingdon Oxfordshire OX14 3YP
GB

78-02-F8 (hex) Xiaomi Communications Co Ltd
7802F8 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

2C-0B-E9 (hex) Cisco Systems, Inc
2C0BE9 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

90-50-5A (hex) unGlue, Inc
90505A (base 16) unGlue, Inc
7150 Helmsdale Circle
West Hils CA 91307
US

8C-93-51 (hex) Jigowatts Inc.
8C9351 (base 16) Jigowatts Inc.
5892-5 Endo
Fujisawa Kanagawa 252-0816
JP

34-78-D7 (hex) Gionee Communication Equipment Co.,Ltd.
3478D7 (base 16) Gionee Communication Equipment Co.,Ltd.
21/F,Times Technology Building,No. 7028,Shennan Avenue,Futian District

Shenzhen 518000
CN

5C-CC-A0 (hex) Gridwiz Inc.
5CCCA0 (base 16) Gridwiz Inc.
4F,
25 Sanun-ro 208beon-gil, Bundang-gu
Seongnam Gyeonggi 13460
KR

58-00-E3 (hex) Liteon Technology Corporation
5800E3 (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

1C-B8-57 (hex) Becon Technologies Co,.Ltd.
1CB857 (base 16) Becon Technologies Co,.Ltd.
Room C405-A Induckwon IT Vally, 40, Imiro
Uiwang city Kyunggi-do 16006
KR

68-27-37 (hex) Samsung Electronics Co.,Ltd
682737 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

28-16-AD (hex) Intel Corporate
2816AD (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

D0-FF-98 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D0FF98 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B0-E5-ED (hex) HUAWEI TECHNOLOGIES CO.,LTD
B0E5ED (base 16) HUAWEI TECHNOLOGIES
CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C4-86-E9 (hex) HUAWEI TECHNOLOGIES CO.,LTD

C486E9 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-19-92 (hex) Adtran Inc
001992 (base 16) Adtran Inc
901 Explorer Blvd.
Huntsville AL 35806-2807
US

68-31-FE (hex) Teladin Co.,Ltd.
6831FE (base 16) Teladin Co.,Ltd.
Digital-ro 33 gil, Guro-gu
Seoul 08377
KR

C4-30-18 (hex) MCS Logic Inc.
C43018 (base 16) MCS Logic Inc.
6F. Samho Center B Bldg., 275-6,Yangjae-Dong, Secho-Ku,Seoul
Seoul 137-941
KR

00-0A-E4 (hex) Wistron Corporation
000AE4 (base 16) Wistron Corporation
21F, No. 88, Section 1, Hsin Tai Wu Rd.
Taipei 221
TW

FC-3C-E9 (hex) Tsingtong Technologies Co, Ltd.
FC3CE9 (base 16) Tsingtong Technologies Co, Ltd.
Rm A03-72, Floor B1, Building
1, No.13 Dazhongsi, Haidian District
Beijing 100098
CN

34-4B-3D (hex) Fiberhome Telecommunication Technologies Co.,LTD
344B3D (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan City Hubei Province 430074
CN

A4-08-F5 (hex) Sagemcom Broadband SAS
A408F5 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

00-B0-91 (hex) Transmeta Corp.
00B091 (base 16) Transmeta Corp.
3940 Freedom Circle
Santa Clara CA 95054
US

58-40-4E (hex) Apple, Inc.
58404E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D0-C5-F3 (hex) Apple, Inc.
D0C5F3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

BC-9F-EF (hex) Apple, Inc.
BC9FEF (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

20-AB-37 (hex) Apple, Inc.
20AB37 (base 16) Apple, Inc.
1
Infinite Loop
Cupertino CA 95014
US

60-F4-45 (hex) Apple, Inc.
60F445 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

AC-C6-62 (hex) MitraStar Technology Corp.
ACC662 (base 16) MitraStar Technology Corp.
No. 6, Innovation Road II,
Hsinchu 300
TW

88-6B-44 (hex) Sunnovo International Limited
886B44 (base 16) Sunnovo International Limited
1717 Haitai Building
Beijing Beijing 100083
CN

D8-38-FC (hex) Ruckus Wireless
D838FC (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

A4-58-0F (hex) IEEE Registration Authority
A4580F (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

E0-A7-00 (hex) Verkada Inc
E0A700 (base 16) Verkada Inc
325 Sharon Park Drive, Suite 519
Menlo Park 94025
US

48-F9-7C (hex) Fiberhome Telecommunication Technologies Co.,LTD
48F97C (base 16) Fiberhome Telecommunication
Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

40-B9-3C (hex) Hewlett Packard Enterprise
40B93C (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

C0-BF-C0 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C0BFC0 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-30-48 (hex) Super Micro Computer, Inc.
003048 (base 16) Super Micro Computer, Inc.
2051 Junction Avenue
San Jose CA 95131
US

9C-D9-CB (hex) Lesira Manufacturing Pty Ltd
9CD9CB (base 16) Lesira Manufacturing Pty Ltd
34 Gemsbok Street
Pretoria Gauteng 0186

ZA

94-E9-79 (hex) Liteon Technology Corporation
94E979 (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

C8-F7-33 (hex) Intel Corporate
C8F733 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech
2/3
Kulim Kedah 09000
MY

A0-3D-6F (hex) Cisco Systems, Inc
A03D6F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A0-E0-AF (hex) Cisco Systems, Inc
A0E0AF (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

8C-19-2D (hex) IEEE Registration Authority
8C192D (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

00-AC-E0 (hex) ARRIS Group, Inc.
00ACE0 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-75-32 (hex) INID BV
007532 (base 16) INID BV
Mariettahof 27
Haarlem NH 2033WS
NL

64-73-E2 (hex) Arbiter Systems, Inc.
6473E2 (base 16) Arbiter Systems, Inc.
1324 Vendels Circle

Paso Robles California 93446
US

E4-5D-52 (hex) Avaya Inc
E45D52 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

A0-8C-F8 (hex) HUAWEI TECHNOLOGIES
CO.,LTD
A08CF8 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

44-D2-44 (hex) Seiko Epson Corporation
44D244 (base 16) Seiko Epson Corporation
80 Harashinden
Shiojiri-shi Nagano-ken 399-0785
JP

4C-B8-1C (hex) SAM Electronics GmbH
4CB81C (base 16) SAM Electronics GmbH
Behringstr. 120
Hamburg Hamburg 22763
DE

7C-F9-5C (hex) U.I. Lapp GmbH
7CF95C (base 16) U.I. Lapp GmbH
Schulze-Delitzsch-Strasse 25
Stuttgart 70565
DE

10-13-31 (hex) Technicolor Delivery Technologies Belgium NV
101331 (base 16) Technicolor Delivery Technologies Belgium NV
Prins Boudewijnlaan 47
Edegem - Belgium B-2650
BE

B4-96-91 (hex) Intel Corporate
B49691 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-76-86 (hex) Cisco Systems, Inc
007686 (base 16) Cisco Systems, Inc

80 West Tasman
Drive
San Jose CA 94568
US

8C-2F-A6 (hex) Solid Optics B.V.
8C2FA6 (base 16) Solid Optics B.V.
Huchtstraat 35
Almere 1327EC
NL

A4-E6-B1 (hex) Shanghai Joindata Technology Co.,Ltd.
A4E6B1 (base 16) Shanghai Joindata Technology Co.,Ltd.
26F,Building1,No428,South Yanggao Road,Pudong District
Shanghai Shanghai 200127
CN

C0-9C-04 (hex) Shaanxi GuoLian Digital TV Technology Co.,Ltd.
C09C04 (base 16) Shaanxi GuoLian Digital TV Technology Co.,Ltd.
No. 15, the first Gaoxin road Hi-tech development district
Xi'an Shaanxi 710075
CN

AC-D6-57 (hex) Shaanxi GuoLian Digital TV Technology Co.,Ltd.
ACD657 (base 16) Shaanxi GuoLian Digital TV Technology Co.,Ltd.
Chief Building, Fifth Yannan Road, Qujiang New District
xi'an shaanxi 71000
CN

3C-EF-8C (hex) Zhejiang Dahua Technology Co., Ltd.
3CEF8C (base 16) Zhejiang Dahua Technology Co., Ltd.
NO.1199 Bin An Road,Binjiang District,HangZhou,P.R.China
HangZhou
ZheJiang 310053
CN

D0-60-8C (hex) zte corporation
D0608C (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

7C-03-C9 (hex) Shenzhen YOUHUA Technology Co., Ltd
7C03C9 (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

D4-C8-B0 (hex) Prime Electronics & Satellitics Inc.
D4C8B0 (base 16) Prime Electronics & Satellitics Inc.
69,Tung-Yuan Rd
Chung-Li City Tao-Yuan County 32000
TW

C8-21-58 (hex) Intel Corporate
C82158 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

24-20-C7 (hex) Sagemcom Broadband SAS
2420C7 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

04-81-AE (hex) Clack Corporation
0481AE
(base 16) Clack Corporation
4462 Duraform Lane
Windsor WI 53598
US

9C-13-AB (hex) Chanson Water Co., Ltd.
9C13AB (base 16) Chanson Water Co., Ltd.
2F, No.88-11, Sec 1, Guangfu Rd, Sanchong Dist.
New Taipei City Taiwan 241
TW

70-3D-15 (hex) Hangzhou H3C Technologies Co., Limited
703D15 (base 16) Hangzhou H3C Technologies Co., Limited
466 Changhe Road, Binjiang District
Hangzhou Zhejiang, P.R.China 310052
CN

E4-9E-12 (hex) FREEBOX SAS
E49E12 (base 16) FREEBOX SAS
16 rue de la Ville l'Eveque
PARIS IdF 75008
FR

B8-E9-37 (hex) Sonos, Inc.
B8E937 (base 16) Sonos, Inc.
614 Chapala St
Santa Barbara CA 93101
US

AC-23-3F (hex) Shenzhen Minew Technologies Co., Ltd.
AC233F (base 16) Shenzhen Minew Technologies Co., Ltd.
H Building, Gangzhilong Science Park, QInglong Road
Shenzhen 518109
CN

3C-80-AA (hex) Ransnet Singapore Pte Ltd
3C80AA (base 16) Ransnet
Singapore Pte Ltd
114, Lavender Street, #08-83, CT Hub 2
Singapore Singapore 338729
SG

88-C6-26 (hex) Logitech, Inc
88C626 (base 16) Logitech, Inc
4700 NW Camas Meadows Dr
Camas WA 98607
US

00-23-F7 (hex) Private
0023F7 (base 16) Private

14-A5-1A (hex) HUAWEI TECHNOLOGIES CO.,LTD
14A51A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

04-75-03 (hex) HUAWEI TECHNOLOGIES CO.,LTD
047503 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A4-D9-A4 (hex) neXus ID Solutions AB
A4D9A4 (base 16) neXus ID Solutions AB
Telefonvägen 26
Stockholm 12626
SE

E0-2C-F3 (hex) MRS Electronic GmbH
E02CF3 (base 16) MRS Electronic GmbH
Klaus-Gutsch-Str. 7
Rottweil 78628
DE

50-B3-63 (hex) Digitron da Amazonia S/A

50B363 (base 16) Digitron
da Amazonia S/A
Av. Eng. Luis Carlos Berrini , 1297
São Paulo São Paulo 04571010
BR

D4-E9-0B (hex) CVT CO.,LTD
D4E90B (base 16) CVT CO.,LTD
Secho gu BangBae 3 dong 1001-1
seoul KangNam KS013
KR

CC-B0-DA (hex) Liteon Technology Corporation
CCB0DA (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

98-E4-76 (hex) Zentan
98E476 (base 16) Zentan
10F-3, No. 260, Sec.2 New Taipei Blvd., Sanchong District
New Taipei City 24158
TW

18-F2-92 (hex) Shannon Systems
18F292 (base 16) Shannon Systems
Suite 1801,Wentong Building,739 Kunming Road, Yangpu, Shanghai
Shanghai 200000
CN

8C-EA-1B (hex) Edgecore Networks Corporation
8CEA1B (base 16) Edgecore Networks Corporation
1 Creation RD 3.
Hsinchu 30077
TW

2C-0E-3D (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
2C0E3D (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T.
Bangsamak SEMTHAI, WELLGROW INDUSTRIAL ESTATE
Bangpakong Chachoengsao 24180
TH

44-6A-B7 (hex) ARRIS Group, Inc.
446AB7 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

70-1C-E7 (hex) Intel Corporate
701CE7 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

9C-2A-70 (hex) Hon Hai Precision Ind. Co.,Ltd.
9C2A70 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

58-E1-6C (hex) Ying Hua Information Technology (Shanghai)Co., LTD
58E16C (base 16) Ying Hua Information Technology (Shanghai)Co., LTD
Room 37 ,Building 13b, No. 4 , lane 600, Tianshan Road ,Changning District Shanghai
Shanghai 201210
CN

00-D7-8F (hex) Cisco Systems, Inc
00D78F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

44-09-B8 (hex) Salcomp (Shenzhen) CO., LTD.
4409B8
(base 16) Salcomp (Shenzhen) CO., LTD.
Salcomp Road, Furong Industrial Area, Xinqiao, Shajing, Baoan District
Shenzhen Guangdong 518125
CN

04-BA-36 (hex) Li Seng Technology Ltd
04BA36 (base 16) Li Seng Technology Ltd
Rm901, 9/F Shiu Fung Hong Building, 239-241 Wing Lok Street, Hong Kong
Hong Kong 0000
HK

10-72-23 (hex) TELLESCOM INDUSTRIA E COMERCIO EM TELECOMUNICACAO
107223 (base 16) TELLESCOM INDUSTRIA E COMERCIO EM TELECOMUNICACAO
Av. Buriti, 1900 – Setor B – Distrito Industrial
Manaus Amazonas 69075-000
BR

48-7A-55 (hex) ALE International
487A55 (base 16) ALE International
32 avenue Kléber
Colombes 92700

FR

00-1E-AE (hex) Continental Automotive Systems Inc.
001EAE (base 16) Continental Automotive Systems Inc.
21440 West Lake Cook Road
Deer Park IL 60010
US

2C-BA-BA (hex) Samsung Electronics Co.,Ltd
2CBABA (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi
Gyeongbuk 730-350
KR

D0-3D-C3 (hex) AQ Corporation
D03DC3 (base 16) AQ Corporation
205, Saneop-ro 155beon-gil, Gwonseon-gu
Suwon Gyeonggi-do 16648
KR

EC-01-E2 (hex) FOXCONN INTERCONNECT TECHNOLOGY
EC01E2 (base 16) FOXCONN INTERCONNECT TECHNOLOGY
66-1, Chungshan Rd., Tucheng Dist.
New Taipei City Taiwan (R.O.C.) 23680
TW

CC-FD-17 (hex) TCT mobile ltd
CCFD17 (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

50-2B-73 (hex) Tenda Technology Co.,Ltd.Dongguan branch
502B73 (base 16) Tenda Technology Co.,Ltd.Dongguan branch
Room 79,Yuanyi Road,Dalang Town,Dongguan Guangdong 523770
Dongguan Guangdong 523770
CN

B4-E7-82 (hex) Vivalnk
B4E782 (base 16) Vivalnk
4655 Old Ironsides Dr, #390
Santa Clara CA 95054
US

40-D3-AE (hex) Samsung Electronics Co.,Ltd
40D3AE (base 16) Samsung Electronics Co.,Ltd
#94-1,

Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

2C-DD-95 (hex) Taicang T&W Electronics
2CDD95 (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

88-E8-7F (hex) Apple, Inc.
88E87F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

9C-F4-8E (hex) Apple, Inc.
9CF48E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

5C-F7-E6 (hex) Apple, Inc.
5CF7E6 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B8-53-AC (hex) Apple, Inc.
B853AC (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

20-3C-AE (hex) Apple, Inc.
203CAE (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A0-3B-E3 (hex) Apple, Inc.
A03BE3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

4C-32-75 (hex) Apple, Inc.
4C3275 (base 16) Apple, Inc.

1 Infinite Loop
Cupertino
CA 95014
US

9C-7D-A3 (hex) HUAWEI TECHNOLOGIES CO.,LTD
9C7DA3 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A4-C6-4F (hex) HUAWEI TECHNOLOGIES CO.,LTD
A4C64F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

18-61-C7 (hex) lemonbeat GmbH
1861C7 (base 16) lemonbeat GmbH
Deutsche Str. 5
Dortmund 44339
DE

B4-F8-1E (hex) Kinova
B4F81E (base 16) Kinova
6110, rue Doris-Lussier,
Boisbriand Qc J7H 0E8
CA

20-5D-47 (hex) vivo Mobile Communication Co., Ltd.
205D47 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

10-C6-0C (hex) Domino UK Ltd
10C60C (base 16) Domino UK Ltd
Trafalgar Way
Cambridge Cambridgeshire CB23 8TU
GB

04-31-10 (hex) Inspur Group
Co., Ltd.
043110 (base 16) Inspur Group Co., Ltd.
No.1036 Langchao Rd.
Jinan Shandong 250101
CN

94-9A-A9 (hex) Microsoft Corporation
949AA9 (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

AC-AB-2E (hex) Beijing LasNubes Technology Co., Ltd.
ACAB2E (base 16) Beijing LasNubes Technology Co., Ltd.
Chao-Yang-Bei-Lu No. 103, Room 1109-1110
Beijing 100025
CN

00-06-78 (hex) D&M Holdings Inc.
000678 (base 16) D&M Holdings Inc.
D&M Building, 2-1 Nisshin-cho
Kawasaki-shi Kanagawa 210-8569
JP

E0-28-6D (hex) AVM Audiovisuelles Marketing und Computersysteme GmbH
E0286D (base 16) AVM Audiovisuelles Marketing und Computersysteme GmbH
Alt-Moabit 95
Berlin Berlin 10559
DE

E0-68-6D (hex) Raybased AB
E0686D (base 16) Raybased AB
A Odhners Gata 41
Västra Frölunda 42130
SE

88-4C-CF (hex) Pulzze Systems, Inc
884CCF (base 16) Pulzze Systems,
Inc
1290-B Reamwood Ave
Sunnyvale CA 94089
US

00-16-28 (hex) Magicard Ltd
001628 (base 16) Magicard Ltd
Hampshire Road
Weymouth Dorset DT4 9XD
GB

70-2E-22 (hex) zte corporation
702E22 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

38-16-D1 (hex) Samsung Electronics Co.,Ltd
3816D1 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D0-17-6A (hex) Samsung Electronics Co.,Ltd
D0176A (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D4-88-90 (hex) Samsung Electronics Co.,Ltd
D48890 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

54-92-BE (hex) Samsung Electronics Co.,Ltd
5492BE (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

30-23-03 (hex) Belkin
International Inc.
302303 (base 16) Belkin International Inc.
12045 East Waterfront Drive
Playa Vista null 90094
US

AC-17-C8 (hex) Cisco Meraki
AC17C8 (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco null 94158
US

98-18-88 (hex) Cisco Meraki
981888 (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco null 94158
US

4C-C8-A1 (hex) Cisco Meraki
4CC8A1 (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco null 94158

US

C8-B2-1E (hex) CHIPSEA TECHNOLOGIES (SHENZHEN) CORP.
C8B21E (base 16) CHIPSEA TECHNOLOGIES (SHENZHEN) CORP.
9F,BLOCK A,GARDEN CITY DIGITAL BUILDING,NO.1079 NANHAI ROAD,NANSHAN DISTRICT
SHEN ZHEN GUANG DONG 518000
CN

60-0B-03 (hex) Hangzhou H3C Technologies Co., Limited
600B03 (base 16) Hangzhou H3C Technologies Co., Limited
466 Changhe Road, Binjiang District
Hangzhou Zhejiang, P.R.China 310052
CN

A0-AB-1B
(hex) D-Link International
A0AB1B (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy, Singapore
Singapore Singapore 609917
SG

D8-42-E2 (hex) Canary Connect, Inc.
D842E2 (base 16) Canary Connect, Inc.
132 East 43rd Street
New York 10017
US

5C-0A-5B (hex) SAMSUNG ELECTRO MECHANICS CO., LTD.
5C0A5B (base 16) SAMSUNG ELECTRO MECHANICS CO., LTD.
314, Maetan3-Dong, Yeongtong-Gu
Suwon 443-743
US

38-59-F9 (hex) Hon Hai Precision Ind. Co.,Ltd.
3859F9 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

EC-55-F9 (hex) Hon Hai Precision Ind. Co.,Ltd.
EC55F9 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

90-6E-BB (hex) Hon Hai Precision Ind. Co.,Ltd.
906EBB (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone

1st Road
Chongqing Chongqing 401332
CN

18-F4-6A (hex) Hon Hai Precision Ind. Co.,Ltd.
18F46A (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

4C-0F-6E (hex) Hon Hai Precision Ind. Co.,Ltd.
4C0F6E (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

78-E4-00 (hex) Hon Hai Precision Ind. Co.,Ltd.
78E400 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

E4-12-18 (hex) ShenZhen Rapoo Technology Co., Ltd.
E41218 (base 16) ShenZhen Rapoo Technology Co., Ltd.
22,Jinxiu Road East,Pingshan District,Shenzhen,China
Shenzhen Guangdong 518122
CN

00-19-84 (hex) ESTIC Corporation
001984 (base 16) ESTIC Corporation
2-5-9 Hashibahigashino-cho
Moriguchi Osaka 570-0031
JP

00-21-2F (hex) Phoebe Micro Inc.
00212F
(base 16) Phoebe Micro Inc.
47606 Kato Rd
Fremont CA 94538
US

C8-E7-76 (hex) PTCOM Technology
C8E776 (base 16) PTCOM Technology
NO.189-8, SEC. 3, NANJING E. RD., ZHONGSHAN DIST.
Taipei 10488
TW

7C-E9-D3 (hex) Hon Hai Precision Ind. Co.,Ltd.

7CE9D3 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

1C-3E-84 (hex) Hon Hai Precision Ind. Co.,Ltd.
1C3E84 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

B8-76-3F (hex) Hon Hai Precision Ind. Co.,Ltd.
B8763F (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

60-F4-94 (hex) Hon Hai Precision Ind. Co.,Ltd.
60F494 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

80-56-F2
(hex) Hon Hai Precision Ind. Co.,Ltd.
8056F2 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

00-1B-98 (hex) Samsung Electronics Co.,Ltd
001B98 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
GUMI Gyeong-Buk 730-350
KR

00-1A-8A (hex) Samsung Electronics Co.,Ltd
001A8A (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi-City Gyeong-Buk 730-350
KR

3C-5A-37 (hex) Samsung Electronics Co.,Ltd
3C5A37 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F4-9F-54 (hex) Samsung Electronics Co.,Ltd
F49F54 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

34-C3-AC (hex) Samsung Electronics Co.,Ltd
34C3AC (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

44-F4-59 (hex) Samsung Electronics
Co.,Ltd
44F459 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-26-5D (hex) Samsung Electronics Co.,Ltd
00265D (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-25-67 (hex) Samsung Electronics Co.,Ltd
002567 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

98-52-B1 (hex) Samsung Electronics Co.,Ltd
9852B1 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

14-F4-2A (hex) Samsung Electronics Co.,Ltd
14F42A (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

08-08-C2 (hex) Samsung Electronics Co.,Ltd
0808C2 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

CC-FE-3C (hex) Samsung Electronics Co.,Ltd
CCFE3C (base 16) Samsung Electronics Co.,Ltd
#94-1,
Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

28-BA-B5 (hex) Samsung Electronics Co.,Ltd
28BAB5 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

E4-40-E2 (hex) Samsung Electronics Co.,Ltd
E440E2 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

10-3B-59 (hex) Samsung Electronics Co.,Ltd
103B59 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D8-90-E8 (hex) Samsung Electronics Co.,Ltd
D890E8 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C4-62-EA (hex) Samsung Electronics Co.,Ltd
C462EA (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

18-26-66 (hex) Samsung Electronics Co.,Ltd
182666 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

30-D6-C9 (hex) Samsung
Electronics Co.,Ltd
30D6C9 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong

Gumi Gyeongbuk 730-350
KR

CC-07-AB (hex) Samsung Electronics Co.,Ltd
CC07AB (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-1C-43 (hex) Samsung Electronics Co.,Ltd
001C43 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-23-D6 (hex) Samsung Electronics Co.,Ltd
0023D6 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

BC-B1-F3 (hex) Samsung Electronics Co.,Ltd
BCB1F3 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

1C-62-B8 (hex) Samsung Electronics Co.,Ltd
1C62B8 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

CC-F9-E8 (hex) Samsung Electronics Co.,Ltd
CCF9E8 (base 16) Samsung Electronics Co.,Ltd
#94-1,
Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D8-57-EF (hex) Samsung Electronics Co.,Ltd
D857EF (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

18-E2-C2 (hex) Samsung Electronics Co.,Ltd
18E2C2 (base 16) Samsung Electronics Co.,Ltd

#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-02-78 (hex) SAMSUNG ELECTRO MECHANICS CO., LTD.
000278 (base 16) SAMSUNG ELECTRO MECHANICS CO., LTD.
314, Mae-tan-dong,
Suwon Suwon KOREA
KR

00-23-99 (hex) Samsung Electronics Co.,Ltd
002399 (base 16) Samsung Electronics Co.,Ltd
416, Maetan-3dong, yeongtong-gu, Suwon-city
suwon 443-742
KR

7C-F8-54 (hex) Samsung Electronics Co.,Ltd
7CF854 (base 16) Samsung Electronics Co.,Ltd
415, Maetan-3dong, Yeongtong-gu, Suwon-City Gyeonggi-do 443-742
Suwon 443-742
KR

C4-73-1E (hex) Samsung Electronics Co.,Ltd
C4731E (base 16) Samsung Electronics Co.,Ltd
416,
Maetan 3dong, Yeongtong-Gu
Suwon Gyeonggi-Do 443742
KR

B4-3A-28 (hex) Samsung Electronics Co.,Ltd
B43A28 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

78-A8-73 (hex) Samsung Electronics Co.,Ltd
78A873 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

E4-12-1D (hex) Samsung Electronics Co.,Ltd
E4121D (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-26-D9 (hex) ARRIS Group, Inc.

0026D9 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

8C-61-02 (hex) Beijing Baofengmojing Technologies Co., Ltd
8C6102 (base 16) Beijing Baofengmojing Technologies Co., Ltd
7/F, Tower C, Zhizhen Plaza, No.7 Zhichun Rd, Haidian District
Beijing 100191
CN

54-8C-A0 (hex) Liteon Technology Corporation
548CA0 (base 16) Liteon Technology Corporation
4F, 90,
Chien 1 Road
New Taipei City Taiwan 23585
TW

34-57-60 (hex) MitraStar Technology Corp.
345760 (base 16) MitraStar Technology Corp.
No. 6, Innovation Road II,
Hsinchu 300
TW

C0-D3-91 (hex) IEEE Registration Authority
C0D391 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

D4-9B-5C (hex) Chongqing Miedu Technology Co., Ltd.
D49B5C (base 16) Chongqing Miedu Technology Co., Ltd.
7-602 No.118 DaPing Main Street Yuzhong District
Chongqing 400000
CN

BC-8A-A3 (hex) NHN Entertainment
BC8AA3 (base 16) NHN Entertainment
Play Museum, 629 Sampyeong-dong, Bundang-gu
Seongnam-si, Gyeonggi-do 463-400
KR

A8-BD-27 (hex) Hewlett Packard Enterprise
A8BD27 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

44-D6-E1 (hex) Snuza International Pty. Ltd.
44D6E1 (base 16) Snuza International Pty. Ltd.
Unit 11, Roeland
Square, Roeland Street
Cape Town Western Cape 8001
ZA

48-6D-BB (hex) Vestel Elektronik San ve Tic. A.S.
486DBB (base 16) Vestel Elektronik San ve Tic. A.S.
Organize san
Manisa Turket 45030
TR

00-2A-10 (hex) Cisco Systems, Inc
002A10 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-A2-89 (hex) Cisco Systems, Inc
00A289 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

84-BE-52 (hex) HUAWEI TECHNOLOGIES CO.,LTD
84BE52 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

84-9F-B5 (hex) HUAWEI TECHNOLOGIES CO.,LTD
849FB5 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A4-CA-A0 (hex) HUAWEI TECHNOLOGIES CO.,LTD
A4CAA0 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road,
Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

84-E0-F4 (hex) IEEE Registration Authority
84E0F4 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554

US

D8-30-62 (hex) Apple, Inc.
D83062 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

44-E9-DD (hex) Sagemcom Broadband SAS
44E9DD (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
RUEIL MALMAISON CEDEX Hauts de Seine 92848
FR

00-0F-5E (hex) Veo
000F5E (base 16) Veo
910 Rincon Circle
San Jose CA 95131
US

00-13-28 (hex) Westech Korea Inc.,
001328 (base 16) Westech Korea Inc.,
548-9, Gajwa3-Dong,Seo-ku,
Incheon 404-817
KR

B8-BF-83 (hex) Intel Corporate
B8BF83 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

7C-79-E8 (hex) PayRange Inc.
7C79E8 (base 16) PayRange Inc.
700 NE Multnomah St. Ste 1400
Portland OR
97232
US

A4-31-11 (hex) ZIV
A43111 (base 16) ZIV
Polígono Parque Tecnológico, 210
ZAMUDIO VIZCAYA 48170
ES

00-80-73 (hex) DWB ASSOCIATES
008073 (base 16) DWB ASSOCIATES
9360 SW GEMINI DRIVE

BEAVERTON OR 97005-7151
US

80-A1-D7 (hex) Shanghai DareGlobal Technologies Co.,Ltd
80A1D7 (base 16) Shanghai DareGlobal Technologies Co.,Ltd
22F,Info Tech Building,No.1555,Kongjiang Rd.
Shanghai 200092
CN

00-D0-37 (hex) ARRIS Group, Inc.
00D037 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

84-E0-58 (hex) ARRIS Group, Inc.
84E058 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

70-76-30 (hex) ARRIS Group, Inc.
707630 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

E8-50-8B (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
E8508B (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T. Bangsamak
Bangpakong
Chachoengsao 24180
TH

F8-04-2E (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
F8042E (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T. Bangsamak
Bangpakong Chachoengsao 24180
TH

EC-1F-72 (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
EC1F72 (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93 Moo5T. Bangsamak
Bangpakong Chachoengsao 24180
TH

8C-0D-76 (hex) HUAWEI TECHNOLOGIES CO.,LTD
8C0D76 (base 16) HUAWEI TECHNOLOGIES CO.,LTD

No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D0-E5-4D (hex) ARRIS Group, Inc.
D0E54D (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

A0-C5-62 (hex) ARRIS Group, Inc.
A0C562 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

84-96-D8 (hex) ARRIS Group, Inc.
8496D8 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

20-3D-B2
(hex) HUAWEI TECHNOLOGIES CO.,LTD
203DB2 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

48-D5-39 (hex) HUAWEI TECHNOLOGIES CO.,LTD
48D539 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C8-8D-83 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C88D83 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-E0-11 (hex) UNIDEN CORPORATION
00E011 (base 16) UNIDEN CORPORATION
2-12-7 Hatchobori,
Chuo-ku Tokyo 104-8512
JP

00-25-55 (hex) Visonic Technologies 1993 Ltd.

002555 (base 16) Visonic Technologies 1993 Ltd.
23 Habarzel st'
Tel - Aviv 69710
IL

58-98-6F (hex) Revolution Display
58986F (base 16) Revolution Display
912 Ruberta Ave
Glendale CA 91201
US

58-FB-84
(hex) Intel Corporate
58FB84 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

E8-EB-11 (hex) Texas Instruments
E8EB11 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

00-22-61 (hex) Frontier Silicon Ltd
002261 (base 16) Frontier Silicon Ltd
137 Euston Road
London NW12AA
GB

04-BB-F9 (hex) Pavilion Data Systems Inc
04BBF9 (base 16) Pavilion Data Systems Inc
2560 N 1st St, #220
San Jose CA 95131
US

00-C0-17 (hex) NetAlly
00C017 (base 16) NetAlly
2075 Research Parkway
Colorado Springs CO 80920
US

5C-B0-66 (hex) ARRIS Group, Inc.
5CB066 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

B4-A9-84 (hex) Symantec Corporation
B4A984 (base 16) Symantec Corporation
350 Ellis Street
Mountain View CA 94043
US

B0-B2-8F (hex) Sagemcom Broadband SAS
B0B28F (base 16) Sagemcom Broadband
SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

44-14-41 (hex) AudioControl Inc.
441441 (base 16) AudioControl Inc.
22410 70Th Ave West, STE 1
Mountlake Terrace WA 98043
US

44-BF-E3 (hex) Shenzhen Longtech Electronics Co.,Ltd
44BFE3 (base 16) Shenzhen Longtech Electronics Co.,Ltd
No.148 Zhengfeng Industrial Area Donghuan RD Huangpu Village Shaijing Town Baoan District
Shenzhen Guangdong 518125
CN

34-07-4F (hex) AccelStor, Inc.
34074F (base 16) AccelStor, Inc.
10F, No. 465, Sec. 6, Zhongxiao E. Rd., Nangang Dist.
Taipei City 11557
TW

3C-6F-EA (hex) Panasonic India Pvt. Ltd.
3C6FEA (base 16) Panasonic India Pvt. Ltd.
12th Floor, Ambience Tower, Ambience Island, NH - 8
Gurgaon Haryana 122002
IN

C8-1F-BE (hex) HUAWEI TECHNOLOGIES CO.,LTD
C81FBE (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan
523808
CN

00-19-88 (hex) Wi2Wi, Inc
001988 (base 16) Wi2Wi, Inc
2107 N. 1st Street
San Jose CA 95131

US

18-DC-56 (hex) Yulong Computer Telecommunication Scientific (Shenzhen) Co.,Ltd
18DC56 (base 16) Yulong Computer Telecommunication Scientific (Shenzhen) Co.,Ltd
8/F.high Tech Plaza,TianAn Cyberpark,Chegongmiao
Shenzhen Guangdong 518040
CN

00-16-F2 (hex) Dmobile System Co., Ltd.
0016F2 (base 16) Dmobile System Co., Ltd.
2F, No.13-20, Sec.6, Mincyuan E.Rd,
Taipei 114
TW

00-1F-9A (hex) Nortel Networks
001F9A (base 16) Nortel Networks
2221 Lakeside Blvd
Richardson TX 75082-4399
US

00-0A-0E (hex) Invivo Research Inc.
000A0E (base 16) Invivo Research Inc.
12601 Research Parkway
Orlando Florida 32826
US

00-04-38 (hex) Nortel Networks
000438 (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

60-EE-5C (hex) SHENZHEN FAST
TECHNOLOGIES CO.,LTD
60EE5C (base 16) SHENZHEN FAST TECHNOLOGIES CO.,LTD
Room 202,Building No.5,Section 30,No.2 of Kefa Road,Nanshan District,Shenzhen,P.R.China
Shenzhen Guangdong 518057
CN

64-88-FF (hex) Sichuan Changhong Electric Ltd.
6488FF (base 16) Sichuan Changhong Electric Ltd.
35 East Mianxing Road,High-Tech Park,
MianYang SiChuan 621000
CN

00-1E-7E (hex) Nortel Networks
001E7E (base 16) Nortel Networks
8200 Dixie Rd

Brampton Ontario 0000
CA

00-13-65 (hex) Nortel Networks
001365 (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-21-62 (hex) Nortel Networks
002162 (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

02-E6-D3 (hex) NIXDORF COMPUTER CORP.
02E6D3 (base 16) NIXDORF COMPUTER CORP.
NIXDORF TECHNOLOGY CENTER
SANTA CLARA CA 95054
US

00-16-B9 (hex) ProCurve Networking by HP
0016B9 (base 16) ProCurve
Networking by HP
8000 Foothills Blvd
Roseville CA 95747
US

00-0E-C0 (hex) Nortel Networks
000EC0 (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-16-60 (hex) Nortel Networks
001660 (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

3C-40-4F (hex) GUANGDONG PISEN ELECTRONICS CO.,LTD
3C404F (base 16) GUANGDONG PISEN ELECTRONICS CO.,LTD
Building C,Liuyue Jintang Industry Zone
Shenzhen Guangdong 518173
CN

D8-4F-B8 (hex) LG ELECTRONICS
D84FB8 (base 16) LG ELECTRONICS

84 Wanam-ro Seongsan-gu
Changwon-si Gyeongsangnam-do 642-713
KR

48-88-CA (hex) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
4888CA (base 16) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
No.19, Gaoxin 4th Road, Wuhan East Lake High-tech Zone, Wuhan
Wuhan Hubei 430000
CN

38-56-10 (hex) CANDY HOUSE, Inc.
385610 (base 16) CANDY
HOUSE, Inc.
119 University Ave.
Palo Alto CA 94301
US

00-A7-42 (hex) Cisco Systems, Inc
00A742 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0A-EB (hex) TP-LINK TECHNOLOGIES CO.,LTD.
000AEB (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Hi-Tech Park R1-B3
Shenzhen Guangdong 518057
CN

2C-37-31 (hex) SHENZHEN YIFANG DIGITAL TECHNOLOGY CO.,LTD.
2C3731 (base 16) SHENZHEN YIFANG DIGITAL TECHNOLOGY CO.,LTD.
Building # 22 and #23, Zone 5, Bai Wang Xin Industrial Park, Song Bai Road
ShenZhen GUANGDONG 518108
CN

00-11-6E (hex) Peplink International Ltd.
00116E (base 16) Peplink International Ltd.
17/F., Park Building
Cheung Sha Wan Kowloon 0000
HK

54-09-55 (hex) zte corporation
540955 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

C4-08-4A (hex) Nokia

C4084A (base 16) Nokia
600
March Road
Kanata Ontario K2K 2E6
CA

00-08-01 (hex) HighSpeed Surfing Inc.
000801 (base 16) HighSpeed Surfing Inc.
44790 S. Grimmer Blvd.
Fremont CA 94538
US

00-07-72 (hex) Alcatel-Lucent Shanghai Bell Co., Ltd
000772 (base 16) Alcatel-Lucent Shanghai Bell Co., Ltd
No. 389, Ningqiao Road, Pudong Jinqiao
Shanghai 201206
CN

E0-30-05 (hex) Alcatel-Lucent Shanghai Bell Co., Ltd
E03005 (base 16) Alcatel-Lucent Shanghai Bell Co., Ltd
No. 389, Ningqiao Road, Pudong Jinqiao
Shanghai 201206
CN

0C-A4-02 (hex) Alcatel-Lucent IPD
0CA402 (base 16) Alcatel-Lucent IPD
600 March Drive
Kanata Ontario K2K2E6
CA

A0-F3-E4 (hex) Alcatel-Lucent IPD
A0F3E4 (base 16) Alcatel-Lucent IPD
600 March Drive
Kanata Ontario K2K2E6
CA

84-DB-FC (hex) Nokia
84DBFC (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

84-D9-31 (hex) Hangzhou H3C Technologies Co.,
Limited
84D931 (base 16) Hangzhou H3C Technologies Co., Limited
466 Changhe Road, Binjiang District
Hangzhou Zhejiang, P.R.China 310052
CN

7C-FC-3C (hex) Visteon Corporation
7CFC3C (base 16) Visteon Corporation
One Village Center Drive
Van Buren Twp MI 48111
US

98-1E-0F (hex) Jeelan (Shanghai Jeelan Technology Information Inc
981E0F (base 16) Jeelan (Shanghai Jeelan Technology Information Inc
Room 302,Building 17, No.658, Jinzhong Road
shanghai 200052
CN

34-14-5F (hex) Samsung Electronics Co.,Ltd
34145F (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

9C-A3-A9 (hex) Guangzhou Juan Optical and Electronical Tech Joint Stock Co., Ltd
9CA3A9 (base 16) Guangzhou Juan Optical and Electronical Tech Joint Stock Co., Ltd
NO.9, street 3, HengLing industrial zone, Tangdong, tianhe district
Guangzhou Guangdong 510000
CN

7C-C7-09 (hex) SHENZHEN RF-LINK
TECHNOLOGY CO.,LTD.
7CC709 (base 16) SHENZHEN RF-LINK TECHNOLOGY CO.,LTD.
Bldg56A, 6/F, Baotian Rd3, Baoan District, Shenzhen, P.R.C
Shenzhen Guangdong 518100
CN

08-21-EF (hex) Samsung Electronics Co.,Ltd
0821EF (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C0-41-F6 (hex) LG ELECTRONICS INC
C041F6 (base 16) LG ELECTRONICS INC
19-1,Cheongho-Ri,Jinwi-Myeon
Pyeongtaek Gyeonggi-Do 451-713
KR

00-1E-75 (hex) LG Electronics (Mobile Communications)
001E75 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801

KR

A0-3E-6B (hex) IEEE Registration Authority
A03E6B (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

98-02-D8 (hex) IEEE Registration Authority
9802D8 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

64-FB-81 (hex) IEEE
Registration Authority
64FB81 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

2C-26-5F (hex) IEEE Registration Authority
2C265F (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

00-1C-62 (hex) LG Electronics (Mobile Communications)
001C62 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

50-55-27 (hex) LG Electronics (Mobile Communications)
505527 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

88-C9-D0 (hex) LG Electronics (Mobile Communications)
88C9D0 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

8C-3A-E3 (hex) LG Electronics (Mobile Communications)
8C3AE3 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu

Seoul 153-801
KR

00-AA-70
(hex) LG Electronics (Mobile Communications)
00AA70 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

F8-95-C7 (hex) LG Electronics (Mobile Communications)
F895C7 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

14-61-02 (hex) Alps Alpine
146102 (base 16) Alps Alpine
20-1, Yoshima Industrial Park
Iwaki Fukushima 970-1192
JP

54-27-6C (hex) Jiangsu Houge Technology Corp.
54276C (base 16) Jiangsu Houge Technology Corp.
No.20 Xizhang North Road, Fenghuang Town
Zhangjiagang Jiangsu 215614
CN

D0-05-2A (hex) Arcadyan Corporation
D0052A (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

EC-68-81 (hex) Palo Alto Networks
EC6881 (base 16) Palo Alto Networks
3000 Tannery Way
Santa Clara CA 95054
US

E4-50-9A (hex) HW
Communications Ltd
E4509A (base 16) HW Communications Ltd
Parkfield
Lancaster LA1 4TZ
GB

70-29-00 (hex) Shenzhen ChipTrip Technology Co,Ltd

702900 (base 16) Shenzhen ChipTrip Technology Co,Ltd
The 8th floor of VIA Technology Building NO. 9966 Shennan road , Nanshan Distict Shenzhen
Shenzhen 518000
CN

14-E7-C8 (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
14E7C8 (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

EC-CD-6D (hex) Allied Telesis, Inc.
ECCD6D (base 16) Allied Telesis, Inc.
3041 Orchard Parkway
San Jose 95134
US

18-33-9D (hex) Cisco Systems, Inc
18339D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-23-97 (hex) Westell Technologies Inc.
002397 (base 16) Westell Technologies Inc.
750 N Commons Dr
Aurora IL 60504
US

00-E0-DD (hex) Zenith
Electronics Corporation
00E0DD (base 16) Zenith Electronics Corporation
1000 MILWAUKEE AVENUE
GLENVIEW IL 60025
US

50-CE-75 (hex) Measy Electronics Co., Ltd.
50CE75 (base 16) Measy Electronics Co., Ltd.
#1506, Block B, Hai Song Bldg, Tairan 9th Road
Shenzhen Guang Dong 518040
CN

00-0C-29 (hex) VMware, Inc.
000C29 (base 16) VMware, Inc.
3401 Hillview Avenue
Palo Alto CA 94304
US

00-05-69 (hex) VMware, Inc.
000569 (base 16) VMware, Inc.
3401 Hillview Avenue
Palo Alto CA 94304
US

00-04-5B (hex) Techsan Electronics Co., Ltd.
00045B (base 16) Techsan Electronics Co., Ltd.
North Wing
UNITED KINGDOM
GB

00-07-BA (hex) UTStarcom Inc
0007BA (base 16) UTStarcom Inc
1275 Harbor Bay PKWY
Alameda CA 94502
US

90-A2-10 (hex) United Telecoms Ltd
90A210 (base 16) United Telecoms Ltd
18A/19,Doddanekundi Industrial Area,
Bangalore Karanataka 560048
IN

6C-0B-84
(hex) Universal Global Scientific Industrial Co., Ltd.
6C0B84 (base 16) Universal Global Scientific Industrial Co., Ltd.
141, Lane 351, TaiPing Road, Sec.1
Tsao-Tuen Nan-Tou 54261
TW

90-A4-6A (hex) SISNET CO., LTD
90A46A (base 16) SISNET CO., LTD
1409, SJ Technoville 60-19, Gasan-dong, Geumcheon-Gu
Seoul KS013
KR

EC-AA-A0 (hex) PEGATRON CORPORATION
ECAAA0 (base 16) PEGATRON CORPORATION
5F No. 76, Ligong St., Beitou District
Taipei City Taiwan 112
TW

60-E3-AC (hex) LG Electronics (Mobile Communications)
60E3AC (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

90-F0-52 (hex) MEIZU Technology Co., Ltd.
90F052 (base 16) MEIZU Technology Co., Ltd.
MEIZU Tech Bldg., Technology & Innovation Coast
Zhuhai Guangdong 519085
CN

8C-FD-F0 (hex) Qualcomm Inc.
8CFDF0 (base 16) Qualcomm Inc.
5775 Morehouse Drive
San
Diego CA 92121
US

C4-BB-4C (hex) Zebra Information Tech Co. Ltd
C4BB4C (base 16) Zebra Information Tech Co. Ltd
Room 415, No.569 Anchi Road, JiaDing District
Shanghai 201804
CN

00-16-39 (hex) Ubiquam Co., Ltd.
001639 (base 16) Ubiquam Co., Ltd.
Technovill 4F,272-3 Yatap3
Seongnam Kyeonggi 463-836
KR

00-15-97 (hex) AETA AUDIO SYSTEMS
001597 (base 16) AETA AUDIO SYSTEMS
18-22, avenue Edouard Herriot
Le Plessis Robinson 92350
FR

00-0B-0E (hex) Trapeze Networks
000B0E (base 16) Trapeze Networks
5753 W. Las Positas Blvd
Pleasanton CA 94588
US

00-C0-00 (hex) LANOPTICS, LTD.
00C000 (base 16) LANOPTICS, LTD.
P.O. BOX 184
ISRAEL ISRAEL 10551
IL

6C-25-B9 (hex) BBK EDUCATIONAL ELECTRONICS CORP.,LTD.
6C25B9 (base 16) BBK EDUCATIONAL ELECTRONICS CORP.,LTD.
LiWu INDUSTRIAL PARK,Wusha,Chang'an
Dong Guan Guang Dong 523860

CN

2C-28-2D (hex) BBK
EDUCATIONAL ELECTRONICS CORP.,LTD.
2C282D (base 16) BBK EDUCATIONAL ELECTRONICS CORP.,LTD.
LiWu INDUSTRIAL PARK,Wusha,Chang'an
Dong Guan Guang Dong 523860
CN

48-13-F3 (hex) BBK EDUCATIONAL ELECTRONICS CORP.,LTD.
4813F3 (base 16) BBK EDUCATIONAL ELECTRONICS CORP.,LTD.
LiWu INDUSTRIAL PARK,Wusha,Chang'an
Dong Guan Guang Dong 523860
CN

00-40-9F (hex) Telco Systems, Inc.
00409F (base 16) Telco Systems, Inc.
15 Berkshire Road
Mansfield, MA 02048
US

00-00-1F (hex) Telco Systems, Inc.
00001F (base 16) Telco Systems, Inc.
15 Berkshire Road
Mansfield MA 02048
US

00-A0-12 (hex) Telco Systems, Inc.
00A012 (base 16) Telco Systems, Inc.
15 Berkshire Road
Mansfield MA 02048
US

F0-DE-F1 (hex) Wistron Infocomm (Zhongshan) Corporation
F0DEF1 (base 16) Wistron Infocomm (Zhongshan) Corporation
168KunShan,
JiangSu 215300
CN

F8-0F-41 (hex) Wistron Infocomm (Zhongshan)
Corporation
F80F41 (base 16) Wistron Infocomm (Zhongshan) Corporation
Torch High-tech Industrial Development Zone,
ZhongShan Guangdong 528437
CN

3C-97-0E (hex) Wistron InfoComm(Kunshan)Co.,Ltd.
3C970E (base 16) Wistron InfoComm(Kunshan)Co.,Ltd.

168# First Avence,
Kunshan JiangSu 215300
CN

98-CF-53 (hex) BBK EDUCATIONAL ELECTRONICS CORP.,LTD.
98CF53 (base 16) BBK EDUCATIONAL ELECTRONICS CORP.,LTD.
LiWu INDUSTRIAL PARK,Wusha,Chang'an
Dong Guan Guang Dong 523860
CN

D4-A1-48 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D4A148 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D0-65-CA (hex) HUAWEI TECHNOLOGIES CO.,LTD
D065CA (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

8C-EB-C6 (hex) HUAWEI TECHNOLOGIES CO.,LTD
8CEBC6 (base 16) HUAWEI
TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B0-89-00 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B08900 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E4-02-9B (hex) Intel Corporate
E4029B (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

DC-1A-C5 (hex) vivo Mobile Communication Co., Ltd.
DC1AC5 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong 523860
CN

4C-0B-BE (hex) Microsoft

4C0BBE (base 16) Microsoft
1 Microsoft Way
Redmond Washington 98052
US

0C-25-76 (hex) LONGCHEER TELECOMMUNICATION LIMITED
0C2576 (base 16) LONGCHEER TELECOMMUNICATION LIMITED
Building 1,No.401,Caobao Rd
Shanghai Xuhui District 200233
CN

D8-D4-3C (hex) Sony Corporation
D8D43C (base 16) Sony
Corporation
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

48-6B-2C (hex) BBK EDUCATIONAL ELECTRONICS CORP.,LTD.
486B2C (base 16) BBK EDUCATIONAL ELECTRONICS CORP.,LTD.
LiWu INDUSTRIAL PARK,Wusha,Chang'an
Dong Guan Guang Dong 523860
CN

30-14-4A (hex) Wistron Neweb Corporation
30144A (base 16) Wistron Neweb Corporation
20 Park Avenue II, Hsin Science Park, Hsinchu 308, Taiwan
HsinChu Taiwan 308
TW

78-CB-68 (hex) DAEHAP HYPER-TECH
78CB68 (base 16) DAEHAP HYPER-TECH
302,Galmachiro,Woolim Lions Valley 5-cha #A-810,Jungwon-Gu
Seongnam, Gyeonggido 445-918
KR

F4-5E-AB (hex) Texas Instruments
F45EAB (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

34-ED-0B (hex) Shanghai XZ-COM.CO.,Ltd.
34ED0B (base 16) Shanghai XZ-COM.CO.,Ltd.
11th Floor,B Building ,No.100 Qinzhou Road ,Shanghai
shanghai shanghai 200235
CN

84-51-81 (hex) Samsung Electronics Co.,Ltd
845181
(base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

90-EF-68 (hex) Zyxel Communications Corporation
90EF68 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

6C-95-22 (hex) Scalys
6C9522 (base 16) Scalys
Lansinkesweg 4
Hengelo 7553 AE
NL

C4-8F-07 (hex) Shenzhen Yihao Hulian Science and Technology Co., Ltd.
C48F07 (base 16) Shenzhen Yihao Hulian Science and Technology Co., Ltd.
Room A, Floor 6, Building 210, Tairan Industry and Trade Park, Che Kung Temple, Futian District, Shenzhen, Guangdong Province
ShenZhen Guangdong 518000
CN

DC-78-34 (hex) LOGICOM SA
DC7834 (base 16) LOGICOM SA
55 Rue de Lisbonne
PARIS 75008
FR

A8-BB-50 (hex) WiZ IoT Company Limited
A8BB50 (base 16) WiZ IoT Company Limited
148 Electric Road
Hong Kong 0000
HK

18-B1-69 (hex) Sonicwall
18B169
(base 16) Sonicwall
2001 Logic Drive
San Jose CA 95124-3452
US

44-44-50 (hex) OttoQ
444450 (base 16) OttoQ
20370 Town Center Lane, Suite 205

Cupertino CA 95014
US

50-F5-DA (hex) Amazon Technologies Inc.
50F5DA (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

10-12-12 (hex) Vivo International Corporation Pty Ltd
101212 (base 16) Vivo International Corporation Pty Ltd
9-13 Bibby Street,
NSW Chiswick 2046
AU

C8-5B-76 (hex) LCFC(HeFei) Electronics Technology co., ltd
C85B76 (base 16) LCFC(HeFei) Electronics Technology co., ltd
YunGu Road 3188-1
Hefei Anhui 230000
CN

9C-DD-1F (hex) Intelligent Steward Co.,Ltd
9CDD1F (base 16) Intelligent Steward Co.,Ltd
Room 508-598 XiTianGeZhuang Town Government Office Building,8# XiTong Road ,Economic Development District ,MiYun County ,BeiJing City
BeiJing City 101509
CN

3C-68-16 (hex) VXi Corporation
3C6816
(base 16) VXi Corporation
271 Locust Street
Dover NH 03820
US

E8-11-CA (hex) SHANDONG KAER ELECTRIC.CO.,LTD
E811CA (base 16) SHANDONG KAER ELECTRIC.CO.,LTD
No.58, Dalian Road, Weihai, 264209 Shandong Province, P.R.China
Weihai Shandong 264209
CN

B4-56-B9 (hex) Teraspek Technologies Co.,Ltd
B456B9 (base 16) Teraspek Technologies Co.,Ltd
14th floor,Block C,Beijing International Building, Zhongguancun South Street, Beijng, China, 100081
Beijing 100081
CN

54-F2-01 (hex) Samsung Electronics Co.,Ltd

54F201 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

70-28-8B (hex) Samsung Electronics Co.,Ltd
70288B (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

34-8A-7B (hex) Samsung Electronics Co.,Ltd
348A7B (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D0-57-7B
(hex) Intel Corporate
D0577B (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C4-A3-66 (hex) zte corporation
C4A366 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

60-73-BC (hex) zte corporation
6073BC (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

7C-35-48 (hex) Transcend Information
7C3548 (base 16) Transcend Information
No.70, XingZhong Rd., NeiHu Dist.,
Taipei Taiwan 114
TW

78-00-9E (hex) Samsung Electronics Co.,Ltd
78009E (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

AC-C3-3A (hex) Samsung Electronics Co.,Ltd
ACC33A (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A8-FC-B7 (hex) Consolidated Resource Imaging
A8FCB7 (base
16) Consolidated Resource Imaging
2943 S Wilson CT NW
Grand Rapids MI 49534
US

C8-16-BD (hex) Qingdao Hisense Communications Co.,Ltd.
C816BD (base 16) Qingdao Hisense Communications Co.,Ltd.
Qianwangang Road 218
Qingdao Shandong 266510
CN

00-EB-D5 (hex) Cisco Systems, Inc
00EBD5 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

48-82-F2 (hex) Appel Elektronik GmbH
4882F2 (base 16) Appel Elektronik GmbH
Ludwig-Rinn-Str.10
Heuchelheim Hessen 35452
DE

A8-15-59 (hex) Breathometer, Inc.
A81559 (base 16) Breathometer, Inc.
863 Mitten Road, Suite 104
Burlingame CA 94010
US

F0-3E-BF (hex) GOGORO TAIWAN LIMITED
F03EBF (base 16) GOGORO TAIWAN LIMITED
No.33 Dinghu Rd.
GuiShan Dist. Taoyuan 333
TW

3C-92-DC (hex) Octopod Technology Co. Ltd.
3C92DC (base 16) Octopod Technology Co. Ltd.
822 Lane Zhennan Road
Shanghai 200331
CN

08-C0-21
(hex) HUAWEI TECHNOLOGIES CO.,LTD
08C021 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

60-08-10 (hex) HUAWEI TECHNOLOGIES CO.,LTD
600810 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

48-43-5A (hex) HUAWEI TECHNOLOGIES CO.,LTD
48435A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

78-FF-CA (hex) TECNO MOBILE LIMITED
78FFCA (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

04-65-65 (hex) Testop
046565 (base 16) Testop
808, Hanshin IT tower, 272 digital-ro
Guro-gu Seoul KS013
KR

00-17-93 (hex) Tigi Corporation
001793 (base
16) Tigi Corporation
2070 Chain Bridge road
Vienna Va 22182
US

00-03-58 (hex) Hanyang Digitech Co.Ltd
000358 (base 16) Hanyang Digitech Co.Ltd
13F, Acetwintower2, 212-30, Guro-Dong
Seoul 12304
KR

C4-CA-D9 (hex) Hangzhou H3C Technologies Co., Limited
C4CAD9 (base 16) Hangzhou H3C Technologies Co., Limited

310 Liuhe Road, Zhijiang Science Park
Hangzhou Zhejiang, 310053
CN

58-66-BA (hex) Hangzhou H3C Technologies Co., Limited
5866BA (base 16) Hangzhou H3C Technologies Co., Limited
310 Liuhe Road, Zhijiang Science Park
Hangzhou Zhejiang, 310053
CN

70-BA-EF (hex) Hangzhou H3C Technologies Co., Limited
70BAEF (base 16) Hangzhou H3C Technologies Co., Limited
466 Changhe Road, Binjiang District,
Hangzhou Zhejiang, P.R.China 310052
CN

58-6A-B1 (hex) Hangzhou H3C Technologies Co., Limited
586AB1 (base 16) Hangzhou H3C Technologies Co., Limited
466 Changhe Road, Binjiang
District,
Hangzhou Zhejiang, P.R.China 310052
CN

00-90-06 (hex) Hamamatsu Photonics K.K.
009006 (base 16) Hamamatsu Photonics K.K.
812 JOKO-CHO
HAMAMATSU 431-3196
JP

8C-8E-F2 (hex) Apple, Inc.
8C8EF2 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

90-B0-ED (hex) Apple, Inc.
90B0ED (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

04-D3-CF (hex) Apple, Inc.
04D3CF (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C4-7C-8D (hex) IEEE Registration Authority

C47C8D (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

10-00-FD (hex) LaonPeople
1000FD (base 16) LaonPeople
402-3, Bundang Techno Park B, 148
Sungnam-si Gyeonggi-do 463-760
KR

44-9F-7F (hex) DataCore Software Corporation
449F7F (base 16) DataCore Software Corporation
6300 NW 5th Way
Fort Lauderdale FL 33309
US

84-83-19
(hex) Hangzhou Zero Zero Technology Co., Ltd.
848319 (base 16) Hangzhou Zero Zero Technology Co., Ltd.
Bldg 13&14, Dream Town, Hangzhou, Zhejiang
Hangzhou Zhejiang 310000
CN

7C-B0-C2 (hex) Intel Corporate
7CB0C2 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

D8-94-03 (hex) Hewlett Packard Enterprise
D89403 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

E0-0E-DA (hex) Cisco Systems, Inc
E00EDA (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

D0-A4-B1 (hex) Sonifex Ltd.
D0A4B1 (base 16) Sonifex Ltd.
61 Station Road
Irthlingborough Northamptonshire NN9 5QE
GB

00-24-F4 (hex) Kaminario, Ltd.
0024F4 (base 16) Kaminario, Ltd.
Yatam Industrial Park
Yokneam ISRAEL 20692
IL

00-1A-29 (hex) Johnson Outdoors Marine Electronics d/b/a Minnkota
001A29 (base 16) Johnson
Outdoors Marine Electronics d/b/a Minnkota
1220 Old Alpharetta Rd
Alpharetta GA 30041
US

00-90-AE (hex) ITALTEL S.p.A/RF-UP-I
0090AE (base 16) ITALTEL S.p.A/RF-UP-I
LOCALITA' BOSCHETTO
67100 L'AQUILA na
IT

00-17-7D (hex) IDT Technology Limited
00177D (base 16) IDT Technology Limited
Block C, 9/F, Kaiser Estate, Phase I
na na
HK

00-A0-45 (hex) PHOENIX CONTACT Electronics GmbH
00A045 (base 16) PHOENIX CONTACT Electronics GmbH
POSTFACH 1341
lower saxony D-31812
DE

40-00-E0 (hex) Derek(Shaoguan)Limited
4000E0 (base 16) Derek(Shaoguan)Limited
Gaojiling,Taiping Town, Shixing County
Shaoguan Guangdong 512500
CN

FC-BC-9C (hex) Vimar Spa
FCBC9C (base 16) Vimar Spa
Viale Vicenza 14
Marostica Vicenza 36063
IT

E0-C7-9D (hex) Texas Instruments
E0C79D (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

4C-0B-3A (hex) TCT
mobile ltd
4C0B3A (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

E4-2D-02 (hex) TCT mobile ltd
E42D02 (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

0C-BD-51 (hex) TCT mobile ltd
0CBD51 (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

74-5C-9F (hex) TCT mobile ltd
745C9F (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

8C-99-E6 (hex) TCT mobile ltd
8C99E6 (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

F4-9E-EF (hex) Taicang T&W Electronics
F49EEF (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

C4-F0-81 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C4F081
(base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

80-13-82 (hex) HUAWEI TECHNOLOGIES CO.,LTD
801382 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park

Dongguan 523808
CN

94-FE-22 (hex) HUAWEI TECHNOLOGIES CO.,LTD
94FE22 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-1A-F4 (hex) Handreamnet
001AF4 (base 16) Handreamnet
#1209 MarioTower, 28
Seoul 152-741
KR

50-DD-4F (hex) Automation Components, Inc
50DD4F (base 16) Automation Components, Inc
2305 Pleasant View Rd
Middleton WI 53562
US

34-1F-E4 (hex) ARRIS Group, Inc.
341FE4 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

F4-62-D0 (hex) Not for Radio, LLC
F462D0 (base 16) Not for Radio,
LLC
425 Front St
Lititz PA 17543
US

84-00-2D (hex) PEGATRON CORPORATION
84002D (base 16) PEGATRON CORPORATION
No. 76, Ligong St., Beitou,
Taipei 112
TW

40-82-56 (hex) Continental Automotive GmbH
408256 (base 16) Continental Automotive GmbH
VD=-Strasse 1
Babenhausen Garmany 64832
DE

F0-40-7B (hex) Fiberhome Telecommunication Technologies Co.,LTD
F0407B (base 16) Fiberhome Telecommunication Technologies Co.,LTD

No.5 DongXin Road
Wuhan Hubei 430074
CN

94-88-5E (hex) Surfilter Network Technology Co., Ltd.
94885E (base 16) Surfilter Network Technology Co., Ltd.
6/f,2 Building,Kejizhong Rd2,Software Park,High-Tech District,Nanshan,Shenzhen,China
Shenzhen Guangdong 518000
CN

00-E0-D5 (hex) Emulex Corporation
00E0D5 (base 16) Emulex Corporation
3333 Susan Street
Costa Mesa CA 92626
US

00-10-35 (hex) Elitegroup Computer Systems Co.,Ltd.
001035 (base 16) Elitegroup
Computer Systems Co.,Ltd.
6F, NO. 88, SEC. 6
Shih Lin TAIPEI 00000
TW

00-0A-E6 (hex) Elitegroup Computer Systems Co.,Ltd.
000AE6 (base 16) Elitegroup Computer Systems Co.,Ltd.
No.22, Alley 38, Lane 91, Sec. 1, Nei Hu
Taipei 114
TW

74-27-EA (hex) Elitegroup Computer Systems Co.,Ltd.
7427EA (base 16) Elitegroup Computer Systems Co.,Ltd.
No. 239, Sec. 2, Ti Ding Blvd.,
Taipei 11493
US

C8-25-E1 (hex) Lemobile Information Technology (Beijing) Co., Ltd
C825E1 (base 16) Lemobile Information Technology (Beijing) Co., Ltd
WENHUAYING NORTH (No.1, LINKONG 2nd St), GAOLIYING, SHUNYI DISTRICT, BEIJING
Beijing Beijing 101300
CN

54-D9-E4 (hex) BRILLIANTTS CO., LTD
54D9E4 (base 16) BRILLIANTTS CO., LTD
Daewangpangyo-ro
Seongnam-si 13494
KR

94-50-89 (hex) SimonsVoss Technologies GmbH

945089 (base 16) SimonsVoss Technologies GmbH
Feringastr. 4
Unterfoehring Bavaria
85774
DE

00-90-FA (hex) Emulex Corporation
0090FA (base 16) Emulex Corporation
3333 Susan Street
Costa Mesa CA 92626
US

E0-B6-F5 (hex) IEEE Registration Authority
E0B6F5 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

00-23-78 (hex) GN Netcom A/S
002378 (base 16) GN Netcom A/S
Lautrupbjerg 7
Ballerup DK - 2750
DK

50-C9-71 (hex) GN Netcom A/S
50C971 (base 16) GN Netcom A/S
Lautrupbjerg 7
Ballerup DK - 2750
DK

E8-09-59 (hex) Guoguang Electric Co.,Ltd
E80959 (base 16) Guoguang Electric Co.,Ltd
No.8 Jinghu Road, Xinhua Street, Huadu Reg
Guangzhou Guangdong 510800
CN

00-40-9C (hex) TRANSWARE
00409C (base 16) TRANSWARE
21, RUE DU 8 MAI 1945

FR

04-2A-E2 (hex) Cisco Systems, Inc
042AE2 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

64-99-68 (hex) Elentec
649968 (base
16) Elentec
401-13 Chunggye-Ri
Dongtan-Myun Kyunggi 445-811
KR

98-6B-3D (hex) ARRIS Group, Inc.
986B3D (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

E0-07-1B (hex) Hewlett Packard Enterprise
E0071B (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

84-FE-DC (hex) Borqs Beijing Ltd.
84FEDC (base 16) Borqs Beijing Ltd.
Tower A, Building B23, Universal Business Park, No.10 Jiuxianqiao Road
Chaoyang District Beijing 100015
CN

1C-3A-DE (hex) Samsung Electronics Co.,Ltd
1C3ADE (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

00-23-60 (hex) Lookit Technology Co., Ltd
002360 (base 16) Lookit Technology Co., Ltd
FL 8 Seashore Mansion
Shenzhen Guangdong 518100
CN

54-48-9C (hex) CDOUBLES ELECTRONICS CO. LTD.
54489C (base 16) CDOUBLES ELECTRONICS CO. LTD.
11F.-6,
No. 7,Sec. 3, New Taipei Blvd., Xinzhuang Dist.
New Taipei City 24250
TW

E4-A1-E6 (hex) Alcatel-Lucent Shanghai Bell Co., Ltd
E4A1E6 (base 16) Alcatel-Lucent Shanghai Bell Co., Ltd
No. 389, Ningqiao Road, Pudong Jinqiao
Shanghai 201206

CN

34-99-71 (hex) Quanta Storage Inc.
349971 (base 16) Quanta Storage Inc.
3F. No.188, Wenhua 2nd Rd
Taoyuan City Guishan District 33383
TW

98-DE-D0 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
98DED0 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

60-83-34 (hex) HUAWEI TECHNOLOGIES CO.,LTD
608334 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E4-7E-66 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E47E66 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room
R6,Songshan Lake Technology Park
Dongguan 523808
CN

94-DB-DA (hex) HUAWEI TECHNOLOGIES CO.,LTD
94DBDA (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B0-1B-D2 (hex) Le Shi Zhi Xin Electronic Technology (Tianjin) Limited
B01BD2 (base 16) Le Shi Zhi Xin Electronic Technology (Tianjin) Limited
,Le Shi Building, No.105 Yaojiayuan Road,Chaoyang District,Beijing,China
beijing beijing 100025
CN

00-5B-A1 (hex) shanghai huayuan chuangxin software CO., LTD.
005BA1 (base 16) shanghai huayuan chuangxin software CO., LTD.
Room D13 , Floor 13,Lane 1006, Jinshajiang road,putuo District
Shanghai Shanghai 200333
CN

58-D6-7A (hex) TCPlink
58D67A (base 16) TCPlink
Daerungpost tower 1-cha 1720, 288 digital-ro,Guro-gu

seoul 08390
KR

5C-C7-D7 (hex) AZROAD TECHNOLOGY COMPANY LIMITED
5CC7D7 (base 16) AZROAD TECHNOLOGY COMPANY
LIMITED
Block B2, No.14 Jian'an rd. Shajing, Bao'an District,
Shenzhen 518104
CN

98-07-2D (hex) Texas Instruments
98072D (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

F0-C7-7F (hex) Texas Instruments
F0C77F (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

1C-AB-C0 (hex) Hitron Technologies. Inc
1CABC0 (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

D4-67-E7 (hex) Fiberhome Telecommunication Technologies Co.,LTD
D467E7 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan City Hubei Province 430074
CN

E4-2F-26 (hex) Fiberhome Telecommunication Technologies Co.,LTD
E42F26 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan City Hubei Province 430074
CN

04-C1-B9 (hex) Fiberhome Telecommunication
Technologies Co.,LTD
04C1B9 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan City Hubei Province 430074
CN

5C-F2-86 (hex) IEEE Registration Authority

5CF286 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

E8-FD-72 (hex) SHANGHAI LINGUO TECHNOLOGY CO., LTD.
E8FD72 (base 16) SHANGHAI LINGUO TECHNOLOGY CO., LTD.
No.2,277 Lane,Yongdeng Road,Putuo District,Shanghai,China
Shanghai Shanghai 200000
CN

98-BB-1E (hex) BYD Precision Manufacture Company Ltd.
98BB1E (base 16) BYD Precision Manufacture Company Ltd.
7/Floor, Building 5#, No3000 LongDong Avenue, Pudong District
Shanghai Shanghai 201203
CN

04-C1-03 (hex) Clover Network, Inc.
04C103 (base 16) Clover Network, Inc.
415 N Mathilda Ave
Sunnyvale CA 94085
US

28-0C-28 (hex) Unigen DataStorage Corporation
280C28 (base 16) Unigen DataStorage Corporation
11F.-6,
No.251, Fuxing 1st St., Zhubei City, Hsinchu County 302, Taiwan (R.O.C.)
Zhubei City 30271
TW

20-8B-37 (hex) Skyworth Digital Technology(Shenzhen) Co.,Ltd
208B37 (base 16) Skyworth Digital Technology(Shenzhen) Co.,Ltd
7F,Block A,Skyworth Building,
Shenzhen Guangdong 518057
CN

08-BE-77 (hex) Green Electronics
08BE77 (base 16) Green Electronics
47801 Fremont Blvd
Fremont CA 94538
US

AC-5F-3E (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
AC5F3E (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T. Bangsamak SEMTHAI, WELLGROW INDUSTRIAL ESTATE
Bangpakong Chachoengsao 24180
TH

54-6D-52 (hex) TOPVIEW OPTRONICS CORP.
546D52 (base 16) TOPVIEW OPTRONICS CORP.
No.8, Wuquan Rd., New Taipei Industrial Park, Wugu District
New Taipei City 24886
TW

D0-17-C2 (hex) ASUSTek COMPUTER INC.
D017C2 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan
112
TW

50-9E-A7 (hex) Samsung Electronics Co.,Ltd
509EA7 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A8-81-95 (hex) Samsung Electronics Co.,Ltd
A88195 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

88-AD-D2 (hex) Samsung Electronics Co.,Ltd
88ADD2 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-CC-FC (hex) Cisco Systems, Inc
00CCFC (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

10-DA-43 (hex) NETGEAR
10DA43 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

B8-05-AB (hex) zte corporation
B805AB (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

78-96-82 (hex) zte corporation
789682 (base 16) zte corporation
12/F.,zte R&D building
,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

C4-BE-D4 (hex) Avaya Inc
C4BED4 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

A4-BF-01 (hex) Intel Corporate
A4BF01 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-19-C5 (hex) Sony Interactive Entertainment Inc.
0019C5 (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

00-13-15 (hex) Sony Interactive Entertainment Inc.
001315 (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

9C-52-F8 (hex) HUAWEI TECHNOLOGIES CO.,LTD
9C52F8 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-60-DC (hex) NEC Magnus Communications,Ltd.
0060DC (base 16) NEC Magnus Communications,Ltd.
18 Nihon-odori,Naka-ku
Yokohama, Kanagawa
231-0021
JP

90-72-82 (hex) Sagemcom Broadband SAS
907282 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur

Rueil Malmaison Cedex hauts de seine 92848
FR

38-B8-EB (hex) IEEE Registration Authority
38B8EB (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

98-97-D1 (hex) MitraStar Technology Corp.
9897D1 (base 16) MitraStar Technology Corp.
No. 6, Innovation Road II,
Hsinchu 300
TW

B8-32-41 (hex) Wuhan Tianyu Information Industry Co., Ltd.
B83241 (base 16) Wuhan Tianyu Information Industry Co., Ltd.
HUST Industry Park, East-Lake Development Zone
Wuhan Hubei 430223
CN

00-1E-1E (hex) Honeywell Life Safety
001E1E (base 16) Honeywell Life Safety
12 Clintonville Road
Northford CT 0422
US

A0-C5-89 (hex) Intel Corporate
A0C589 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

1C-23-4F (hex) EDMI
Europe Ltd
1C234F (base 16) EDMI Europe Ltd
The Grainger Suite, Dobson House
Newcastle upon Tyne NE3 3PF
GB

A4-44-D1 (hex) Wingtech Group (HongKongLimited
A444D1 (base 16) Wingtech Group (HongKongLimited
FLAT/RM 1903 19/F PODIUM PLAZA 5HANOI ROAD TSIM SHA TSUI
Hong Kong Hong Kong 999077
HK

00-6C-FD (hex) Sichuan Changhong Electric Ltd.
006CFD (base 16) Sichuan Changhong Electric Ltd.

No.35,East MianXin Road,MianYang,Sichaun,China.
MianYang SiChuan PRC 621000
CN

54-5A-A6 (hex) Espressif Inc.
545AA6 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

FC-1A-11 (hex) vivo Mobile Communication Co., Ltd.
FC1A11 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

00-23-40 (hex) MiXTelematics
002340 (base 16) MiXTelematics
Blaauwklip Office Park 2
Stellenbosch
Western Cape 7600
ZA

B4-8B-19 (hex) Apple, Inc.
B48B19 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

38-FD-FE (hex) IEEE Registration Authority
38FDFE (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

2C-09-CB (hex) COBS AB
2C09CB (base 16) COBS AB
Box 9242
Goteborg 40095
SE

BC-EC-5D (hex) Apple, Inc.
BCEC5D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

28-A0-2B (hex) Apple, Inc.

28A02B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

CC-6D-A0 (hex) Roku, Inc.
CC6DA0 (base 16) Roku, Inc.
12980 Saratoga Ave.
Saratoga CA 95070
US

00-16-E4 (hex) VANGUARD SECURITY ENGINEERING CORP.
0016E4 (base 16) VANGUARD SECURITY ENGINEERING CORP.
3, LANE 32, KSO CHING RD.
YANGMEI TAOYUAN 326
US

3C-89-70 (hex) Neosfar
3C8970 (base 16) Neosfar
101 W. Broadway,
Suite 300
San Diego CA 92101
US

78-CA-83 (hex) IEEE Registration Authority
78CA83 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

0C-11-67 (hex) Cisco Systems, Inc
0C1167 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

74-EA-E8 (hex) ARRIS Group, Inc.
74EAE8 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

A8-44-81 (hex) Nokia Corporation
A84481 (base 16) Nokia Corporation
Joensuunkatu 7
Salo NA 24101
FI

88-44-F6 (hex) Nokia Corporation
8844F6 (base 16) Nokia Corporation
Joensuunkatu 7
Salo NA 24101
FI

F4-4D-17 (hex) GOLDCARD HIGH-TECH CO.,LTD.
F44D17 (base 16) GOLDCARD HIGH-TECH CO.,LTD.
No.158, Jinqiao Stree,Economic&Technological Development Area,
Hangzhou Zhejiang 310018
CN

00-17-42 (hex) FUJITSU LIMITED
001742 (base 16) FUJITSU LIMITED
403, Kosugi-cho
1-chome, Nakahara-ku
Kawasaki Kanagawa 211-0063
JP

00-19-99 (hex) Fujitsu Technology Solutions GmbH
001999 (base 16) Fujitsu Technology Solutions GmbH
Buergermeister-Ulrich-Strasse 100
Augsburg 86199
DE

00-5A-39 (hex) SHENZHEN FAST TECHNOLOGIES CO.,LTD
005A39 (base 16) SHENZHEN FAST TECHNOLOGIES CO.,LTD
Room 202,Building No.5,Section 30,No.2 of Kefa Road,Nanshan District
Shenzhen Guangdong 518057
CN

A0-89-E4 (hex) Skyworth Digital Technology(Shenzhen) Co.,Ltd
A089E4 (base 16) Skyworth Digital Technology(Shenzhen) Co.,Ltd
7F,Block A,Skyworth Building,
Shenzhen Guangdong 518057
CN

5C-C6-D0 (hex) Skyworth Digital Technology(Shenzhen) Co.,Ltd
5CC6D0 (base 16) Skyworth Digital Technology(Shenzhen) Co.,Ltd
7F,Block A,Skyworth Building,
Shenzhen Guangdong 518057
CN

00-1A-9A (hex) Skyworth Digital Technology(Shenzhen) Co.,Ltd
001A9A (base 16) Skyworth Digital Technology(Shenzhen)
Co.,Ltd
7F,Block A,Skyworth Building,
Shenzhen Guangdong 518057

CN

00-21-00 (hex) Gemtek Technology Co., Ltd.
002100 (base 16) Gemtek Technology Co., Ltd.
No.1 Jen Ai Road, Hsinchu Industrial Park,
Hukou, Hsinchu 303
TW

00-1C-35 (hex) Nokia Danmark A/S
001C35 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-1C-9A (hex) Nokia Danmark A/S
001C9A (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-1C-D6 (hex) Nokia Danmark A/S
001CD6 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-1C-D4 (hex) Nokia Danmark A/S
001CD4 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-1D-98 (hex) Nokia Danmark A/S
001D98 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-1D-E9 (hex) Nokia Danmark A/S
001DE9 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen
V DK-1790
DK

00-1E-3A (hex) Nokia Danmark A/S
001E3A (base 16) Nokia Danmark A/S
Frederikskaj

Copenhagen V DK-1790
DK

00-1D-6E (hex) Nokia Danmark A/S
001D6E (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

C8-D1-0B (hex) Nokia Corporation
C8D10B (base 16) Nokia Corporation
Joensuunkatu 7
Salo 24101
FI

00-23-B4 (hex) Nokia Danmark A/S
0023B4 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-13-70 (hex) Nokia Danmark A/S
001370 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

9C-18-74 (hex) Nokia Danmark A/S
9C1874 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790V
DK

00-1B-AF (hex) Nokia Danmark A/S
001BAF (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-25-48 (hex) Nokia Danmark A/S
002548 (base 16) Nokia Danmark
A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-22-FC (hex) Nokia Danmark A/S
0022FC (base 16) Nokia Danmark A/S

Frederikskaj
Copenhagen V DK-1790
DK

00-22-FD (hex) Nokia Danmark A/S
0022FD (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-21-AA (hex) Nokia Danmark A/S
0021AA (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-26-E4 (hex) Canal +
0026E4 (base 16) Canal +
48 quai du point du jour
Boulogne-Billancourt 92659
FR

00-01-17 (hex) Canal +
000117 (base 16) Canal +
23 Rue LeBlanc
75906 Paris Cedex 15 12345
FR

E0-1D-3B (hex) Cambridge Industries(Group) Co.,Ltd.
E01D3B (base 16) Cambridge Industries(Group) Co.,Ltd.
22 Floor, Qilai Tower, #889 Yishan Road
Shanghai Shanghai 200233
CN

C8-10-73 (hex) CENTURY OPTICOMM CO.,LTD
C81073 (base 16) CENTURY OPTICOMM CO.,LTD
WEITUO COMMUNITY,HECHUAN
INDUSTRIAL PARK, HECHUAN DISTRICT,CHONGQING,CHINA
Chongqing 401121
CN

34-37-59 (hex) zte corporation
343759 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

FC-2F-40 (hex) Calxeda, Inc.

FC2F40 (base 16) Calxeda, Inc.
7000 North Mopac Expressway
Austin TX 78731
US

BC-62-0E (hex) HUAWEI TECHNOLOGIES CO.,LTD
BC620E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

74-A5-28 (hex) HUAWEI TECHNOLOGIES CO.,LTD
74A528 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-1D-19 (hex) Arcadyan Technology Corporation
001D19 (base 16) Arcadyan Technology Corporation
4F., No. 9 , Park Avenue II,
Hsinchu 300
TW

00-30-FF (hex) DataFab Systems Inc.
0030FF (base 16) DataFab
Systems Inc.
ROOM #1910, 19F, NO. 333
TAIWAN TAIWAN R.O.C.
TW

00-0F-F6 (hex) DARFON LIGHTING CORP
000FF6 (base 16) DARFON LIGHTING CORP
31, Lane17, Zihciang N. Road
Taoyuan 333
TW

F8-8E-85 (hex) Comtrend Corporation
F88E85 (base 16) Comtrend Corporation
3F-1, 10 Lane 609, Chongxin Road, Section 5,
New Taipei City, Taiwan 24159
TW

02-CF-1C (hex) Communication Machinery Corporation
02CF1C (base 16) Communication Machinery Corporation
1226 ANACAPA
SANTA BARBARA CA 93101
US

00-90-F5 (hex) CLEVO CO.
0090F5 (base 16) CLEVO CO.
35, WU-GON 6TH ROAD
TAIPEI HSIEN 12345
TW

00-20-D4 (hex) Cabletron Systems, Inc.
0020D4 (base 16) Cabletron Systems, Inc.
35 INDUSTRIAL WAY
ROHESTER NH 03866-5005
US

00-E0-3A (hex) Cabletron Systems, Inc.
00E03A (base 16) Cabletron Systems, Inc.
35 INDUSTRIAL WAY - BLDG. #36
ROCHESTER NH 03867
US

70-C7-6F (hex) INNO
S
70C76F (base 16) INNO S
215beon-gil, 119
Guri-si Gyeonggi-do 471-060
KR

38-19-2F (hex) Nokia Corporation
38192F (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

B8-C6-8E (hex) Samsung Electronics Co.,Ltd
B8C68E (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

04-FE-31 (hex) Samsung Electronics Co.,Ltd
04FE31 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

4C-BC-A5 (hex) Samsung Electronics Co.,Ltd
4CBCA5 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D8-31-CF (hex) Samsung Electronics Co.,Ltd
D831CF (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B0-D0-9C (hex) Samsung Electronics Co.,Ltd
B0D09C (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

50-C8-E5
(hex) Samsung Electronics Co.,Ltd
50C8E5 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

18-83-31 (hex) Samsung Electronics Co.,Ltd
188331 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

9C-65-B0 (hex) Samsung Electronics Co.,Ltd
9C65B0 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

84-55-A5 (hex) Samsung Electronics Co.,Ltd
8455A5 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A8-7C-01 (hex) Samsung Electronics Co.,Ltd
A87C01 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-10-E7 (hex) Breezecom, Ltd.
0010E7 (base 16) Breezecom, Ltd.
PO Box 13139
Tel-Aviv 12345

IL

50-F5-20 (hex) Samsung Electronics Co.,Ltd
50F520 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi
Gyeongbuk 730-350
KR

64-B3-10 (hex) Samsung Electronics Co.,Ltd
64B310 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A4-EB-D3 (hex) Samsung Electronics Co.,Ltd
A4EBD3 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

5C-F6-DC (hex) Samsung Electronics Co.,Ltd
5CF6DC (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

94-92-BC (hex) SYNTECH(HK) TECHNOLOGY LIMITED
9492BC (base 16) SYNTECH(HK) TECHNOLOGY LIMITED
Unit No.1,12/F.,Perfect Industrial Building,31 Tai Yau Street, San Po Kong, Kowloon, Hong Kong 999077
Kowloon 999077
HK

00-12-BF (hex) Arcadyan Technology Corporation
0012BF (base 16) Arcadyan Technology Corporation
4F, No. 9, Park Avenue II
Hsinchu 300
TW

50-7E-5D (hex) Arcadyan Technology Corporation
507E5D (base 16) Arcadyan
Technology Corporation
4F, No. 9, Park Avenue II ,
Hsinchu 300
TW

7C-4F-B5 (hex) Arcadyan Technology Corporation
7C4FB5 (base 16) Arcadyan Technology Corporation

4F, No. 9, Park Avenue II ,
Hsinchu 300
TW

F4-0B-93 (hex) BlackBerry RTS
F40B93 (base 16) BlackBerry RTS
451 Phillip Street
Waterloo ON N2L 3X2
CA

1C-69-A5 (hex) BlackBerry RTS
1C69A5 (base 16) BlackBerry RTS
451 Phillip Street
Waterloo ON N2L 3X2
CA

94-EB-CD (hex) BlackBerry RTS
94EBCD (base 16) BlackBerry RTS
295 Phillip Street
Waterloo Ontario N2L3W8
CA

C0-3F-0E (hex) NETGEAR
C03F0E (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

00-26-F2 (hex) NETGEAR
0026F2 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

00-22-3F (hex) NETGEAR
00223F (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

00-0F-B5 (hex) NETGEAR
000FB5
(base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

00-09-5B (hex) NETGEAR

00095B (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

00-1A-4F (hex) AVM GmbH
001A4F (base 16) AVM GmbH
Alt-Moabit 95
Berlin 10559
DE

00-1C-4A (hex) AVM GmbH
001C4A (base 16) AVM GmbH
Alt-Moabit 95
Berlin 10559
DE

00-15-0C (hex) AVM GmbH
00150C (base 16) AVM GmbH
Alt-Moabit 95
Berlin 10559
DE

00-26-FF (hex) BlackBerry RTS
0026FF (base 16) BlackBerry RTS
440 Phillip Street
Waterloo Ontario N2L 5W9
CA

A4-E4-B8 (hex) BlackBerry RTS
A4E4B8 (base 16) BlackBerry RTS
295 Phillip Street
Waterloo Ontario N2L 3W8
CA

00-30-67 (hex) BIOSTAR Microtech Int'l Corp.
003067 (base 16) BIOSTAR Microtech Int'l Corp.
2FL. NO. 108-2 MIN CHUAN ROAD
HSIN TIEN CITY, TAIPEI HSIEN 12345
TW

00-25-F2 (hex) ARRIS Group,
Inc.
0025F2 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-25-F1 (hex) ARRIS Group, Inc.
0025F1 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-26-BA (hex) ARRIS Group, Inc.
0026BA (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-23-0B (hex) ARRIS Group, Inc.
00230B (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-23-75 (hex) ARRIS Group, Inc.
002375 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

80-37-73 (hex) NETGEAR
803773 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

A4-2B-8C (hex) NETGEAR
A42B8C (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

28-C6-8E (hex) NETGEAR
28C68E (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

04-A1-51 (hex) NETGEAR
04A151
(base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

74-E7-C6 (hex) ARRIS Group, Inc.
74E7C6 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-24-C1 (hex) ARRIS Group, Inc.
0024C1 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

F8-73-94 (hex) NETGEAR
F87394 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

20-4E-7F (hex) NETGEAR
204E7F (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

00-13-8F (hex) Asiarock Technology Limited
00138F (base 16) Asiarock Technology Limited
P.O. Box957, Offshore Incorporations Centre
Road Town Tortola 12345
VG

B4-52-7D (hex) Sony Corporation
B4527D (base 16) Sony Corporation
4-12-3 Higashi – Shinagawa
Shinagawa-ku Tokyo 140-0002
JP

00-D9-D1 (hex) Sony Interactive Entertainment Inc.
00D9D1 (base
16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

B0-05-94 (hex) Liteon Technology Corporation
B00594 (base 16) Liteon Technology Corporation
4F,90,Chien 1 Road,ChungHo
New Taipei City Taipei 23585

TW

00-1A-AD (hex) ARRIS Group, Inc.
001AAD (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

CC-7D-37 (hex) ARRIS Group, Inc.
CC7D37 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

A4-7A-A4 (hex) ARRIS Group, Inc.
A47AA4 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-17-00 (hex) ARRIS Group, Inc.
001700 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-16-B5 (hex) ARRIS Group, Inc.
0016B5 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-15-A8 (hex) ARRIS Group, Inc.
0015A8 (base 16) ARRIS Group,
Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-15-9A (hex) ARRIS Group, Inc.
00159A (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1E-DC (hex) Sony Corporation
001EDC (base 16) Sony Corporation
4-12-3 Higashi – Shinagawa

Shinagawa-ku Tokyo 140-0002
JP

00-1D-28 (hex) Sony Corporation
001D28 (base 16) Sony Corporation
4-12-3 Higashi – Shinagawa
Shinagawa-ku Tokyo 140-0002
JP

00-18-13 (hex) Sony Corporation
001813 (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

40-2B-A1 (hex) Sony Corporation
402BA1 (base 16) Sony Corporation
4-12-3 Higashi – Shinagawa
Shinagawa-ku Tokyo 140-0002
JP

94-CC-B9 (hex) ARRIS Group, Inc.
94CCB9 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

3C-43-8E (hex) ARRIS Group, Inc.
3C438E (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San
Diego CA 92121
US

98-3B-16 (hex) AMPAK Technology, Inc.
983B16 (base 16) AMPAK Technology, Inc.
No.1,Jen Ai Road
Hsinchu 30352
TW

00-11-80 (hex) ARRIS Group, Inc.
001180 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-0B-06 (hex) ARRIS Group, Inc.
000B06 (base 16) ARRIS Group, Inc.

6450 Sequence Drive
San Diego CA 92121
US

00-D0-88 (hex) ARRIS Group, Inc.
00D088 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-12-8A (hex) ARRIS Group, Inc.
00128A (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-11-AE (hex) ARRIS Group, Inc.
0011AE (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

94-A1-A2 (hex) AMPAK Technology, Inc.
94A1A2 (base 16) AMPAK Technology, Inc.
No.1,Jen Ai Road
Hukou Hsinchu 30352
TW

00-01-4A (hex) Sony
Corporation
00014A (base 16) Sony Corporation
Gotenyama Tec, 5-1-2 Kitashinagawa
Tokyo 141-0001
JP

00-23-A3 (hex) ARRIS Group, Inc.
0023A3 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1A-DB (hex) ARRIS Group, Inc.
001ADB (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1F-7E (hex) ARRIS Group, Inc.

001F7E (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1C-12 (hex) ARRIS Group, Inc.
001C12 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

84-00-D2 (hex) Sony Corporation
8400D2 (base 16) Sony Corporation
4-12-3 Higashi – Shinagawa
Shinagawa-ku Tokyo 140-0002
JP

30-39-26 (hex) Sony Corporation
303926 (base 16) Sony Corporation
4-12-3 Higashi – Shinagawa
Shinagawa-ku Tokyo 140-0002
JP

00-EB-2D (hex) Sony Corporation
00EB2D (base
16) Sony Corporation
4-12-3 Higashi – Shinagawa
Shinagawa-ku Tokyo 140-0002
JP

00-14-04 (hex) ARRIS Group, Inc.
001404 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

34-C3-D2 (hex) FN-LINK TECHNOLOGY LIMITED
34C3D2 (base 16) FN-LINK TECHNOLOGY LIMITED
A Building,HuiXin industial park,No 31, YongHe road, Fuyong town, Bao'an District
SHENZHEN GUANGDONG 518100
CN

54-F6-C5 (hex) FUJIAN STAR-NET COMMUNICATION CO.,LTD
54F6C5 (base 16) FUJIAN STAR-NET COMMUNICATION CO.,LTD
19-22# Building, Star-net Science Plaza, Juyuanzhou,
FUZHOU FUJIAN 350002
CN

40-95-58 (hex) Aisino Corporation
409558 (base 16) Aisino Corporation
No.18A, Xingshikou Road,
Beijing 100195
CN

18-28-61 (hex) AirTies Wireless Networks
182861 (base 16) AirTies Wireless Networks
Gulbahar Mahallesi, Avni Diligil Sokak
ISTANBUL ISTANBUL 34394
TR

A8-1D-16 (hex) AzureWave Technology
Inc.
A81D16 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

00-10-73 (hex) TECHNOBOX, INC.
001073 (base 16) TECHNOBOX, INC.
140 Mount Holly Bypass
Lumberton NJ 08048-1114
US

00-15-AF (hex) AzureWave Technology Inc.
0015AF (base 16) AzureWave Technology Inc.
8F., No.94, Baozhong Rd., Xindian
Taipei 231
TW

74-F0-6D (hex) AzureWave Technology Inc.
74F06D (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd., Xindian
Taipei 231
TW

44-D8-32 (hex) AzureWave Technology Inc.
44D832 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd., Xindian
Taipei 231
TW

E0-B9-A5 (hex) AzureWave Technology Inc.
E0B9A5 (base 16) AzureWave Technology Inc.
8F., No. 94, Baoshong Rd.
Xindian City, Taipei County 231
TW

78-18-81 (hex) AzureWave Technology Inc.
781881 (base 16) AzureWave Technology Inc.
8F.,
No.94 Baozhong Rd.,
Xindian, Taipei 23144
TW

6C-71-D9 (hex) AzureWave Technology Inc.
6C71D9 (base 16) AzureWave Technology Inc.
9F.,No.92,Baozhong Rd
Xindian District New Taipei City 231
TW

D0-E7-82 (hex) AzureWave Technology Inc.
D0E782 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd
. New Taipei City Taiwan 231
TW

6C-AD-F8 (hex) AzureWave Technology Inc.
6CADF8 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd
. New Taipei City Taiwan 231
TW

EC-08-6B (hex) TP-LINK TECHNOLOGIES CO.,LTD.
EC086B (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

5C-33-8E (hex) Alpha Networks Inc.
5C338E (base 16) Alpha Networks Inc.
No.8 Li-shing Seventh Road,Science-based
Hsinchu 300
TW

D0-D4-12 (hex) ADB Broadband Italia
D0D412
(base 16) ADB Broadband Italia
VIALE SARCA 336
MILANO 20126
IT

00-26-B8 (hex) Actiontec Electronics, Inc
0026B8 (base 16) Actiontec Electronics, Inc
3301 Olcott St.

Santa Clara CA 95054
US

00-26-FC (hex) AcSiP Technology Corp.
0026FC (base 16) AcSiP Technology Corp.
3F., No.22, Dalin Rd.,
Taoyuan City, Taoyuan County 330
TW

68-9C-5E (hex) AcSiP Technology Corp.
689C5E (base 16) AcSiP Technology Corp.
3F., No.22, Dalin Rd.
Taoyuan Taoyuan County 33067
TW

28-E3-47 (hex) Liteon Technology Corporation
28E347 (base 16) Liteon Technology Corporation
4F,90,Chien 1 Road,ChungHo,Taipei Hsien,Taiwan,
TaiPei TaiWan 23585
TW

44-6D-57 (hex) Liteon Technology Corporation
446D57 (base 16) Liteon Technology Corporation
4F,90,Chien 1 Road,ChungHo,Taipei Hsien,Taiwan,
TaiPei TaiWan 23585
TW

9C-B7-0D (hex) Liteon Technology Corporation
9CB70D (base 16) Liteon
Technology Corporation
4F,90,Chien 1 Road,ChungHo,Taipei Hsien,Taiwan,
TaiPei TaiWan 23585
TW

68-A3-C4 (hex) Liteon Technology Corporation
68A3C4 (base 16) Liteon Technology Corporation
4F,90,Chien 1 Road,ChungHo,Taipei Hsien,Taiwan,
TaiPei TaiWan 23585
TW

70-F1-A1 (hex) Liteon Technology Corporation
70F1A1 (base 16) Liteon Technology Corporation
4F,90,Chien 1 Road,ChungHo,Taipei Hsien,Taiwan,
TaiPei TaiWan 23585
TW

00-1C-A2 (hex) ADB Broadband Italia
001CA2 (base 16) ADB Broadband Italia

VIALE SARCA 222
MILANO 20126
IT

00-22-33 (hex) ADB Broadband Italia
002233 (base 16) ADB Broadband Italia
VIALE SARCA 222
MILANO 20126
IT

30-39-F2 (hex) ADB Broadband Italia
3039F2 (base 16) ADB Broadband Italia
VIALE SARCA 222
MILANO 20126
IT

00-17-C2 (hex) ADB Broadband Italia
0017C2 (base 16) ADB Broadband Italia
v.Sarca 222
Milano 20126
IT

B0-46-FC
(hex) MitraStar Technology Corp.
B046FC (base 16) MitraStar Technology Corp.
No. 6, Innovation Road II,
Hsinchu 300
TW

E0-41-36 (hex) MitraStar Technology Corp.
E04136 (base 16) MitraStar Technology Corp.
No. 6, Innovation Road II,
Hsinchu Taiwan 300
TW

9C-0E-4A (hex) Shenzhen Vastking Electronic Co.,Ltd.
9C0E4A (base 16) Shenzhen Vastking Electronic Co.,Ltd.
2/F Building 6,ZhengZhong Industrial Park,Qiaotou Community,Fuyong,Baoan,ShenZhen China
Shenzhen Guangdong 518103
CN

A8-58-40 (hex) Cambridge Industries(Group) Co.,Ltd.
A85840 (base 16) Cambridge Industries(Group) Co.,Ltd.
5/F,Building 8, 2388 ChenHang Road, MinHang District
shanghai 201114
CN

A0-D3-7A (hex) Intel Corporate

A0D37A (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

88-96-F2 (hex) Valeo Schalter und Sensoren GmbH
8896F2 (base 16) Valeo Schalter und Sensoren GmbH
Laiernstrasse
12
Bietigheim-Bissingen Germany 74321
DE

14-1A-A3 (hex) Motorola Mobility LLC, a Lenovo Company
141AA3 (base 16) Motorola Mobility LLC, a Lenovo Company
222 Merchandise Mart Plaza, Suite 1800
Chicago IL 60654
US

34-07-FB (hex) Ericsson AB
3407FB (base 16) Ericsson AB
Torshamnsgatan 36
Stockholm SE-164 80
SE

A4-A1-C2 (hex) Ericsson AB
A4A1C2 (base 16) Ericsson AB
Torshamnsgatan 36
Stockholm SE-164 80
SE

E0-97-96 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E09796 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base,Bantian,Longgang,Shenzhen
Shenzhen Guangdong 518129
CN

20-93-4D (hex) FUJIAN STAR-NET COMMUNICATION CO.,LTD
20934D (base 16) FUJIAN STAR-NET COMMUNICATION CO.,LTD
19-22# Building,,Star-net Science Plaza
Fuzhou Fujian 350002
CN

00-90-27 (hex) Intel Corporation
009027 (base 16) Intel Corporation
HF1-06
HILLSBORO OR
97124
US

00-A0-C9 (hex) Intel Corporation
00A0C9 (base 16) Intel Corporation
5200 NE ELAM YOUNG PARKWAY
HILLSBORO OR 97124
US

00-0D-72 (hex) 2Wire Inc
000D72 (base 16) 2Wire Inc
1704 Automation Parkway
San Jose CA 95131
US

00-12-88 (hex) 2Wire Inc
001288 (base 16) 2Wire Inc
1704 Automation Parkway
San Jose CA 94538
US

8C-A9-82 (hex) Intel Corporate
8CA982 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

BC-77-37 (hex) Intel Corporate
BC7737 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

D8-FC-93 (hex) Intel Corporate
D8FC93 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

B8-03-05 (hex) Intel Corporate
B80305 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

24-77-03 (hex) Intel Corporate
247703 (base 16) Intel Corporate
Lot
8, Jalan Hi-Tech 2/3
Kulim Kedah 09000

MY

74-E5-0B (hex) Intel Corporate
74E50B (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C4-85-08 (hex) Intel Corporate
C48508 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

68-05-CA (hex) Intel Corporate
6805CA (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

14-30-C6 (hex) Motorola Mobility LLC, a Lenovo Company
1430C6 (base 16) Motorola Mobility LLC, a Lenovo Company
600 North US Highway 45
Libertyville IL 60048
US

00-57-D2 (hex) Cisco Systems, Inc
0057D2 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

3C-67-16 (hex) Lily Robotics
3C6716 (base 16) Lily Robotics
75 Boardman Pl
San Francisco CA 94103
US

2C-22-8B (hex) CTR SRL
2C228B (base 16) CTR SRL
Via Lario 33
Cantù Cantù (CO)
22063
IT

0C-6F-9C (hex) Shaw Communications Inc.
0C6F9C (base 16) Shaw Communications Inc.
Suite 900, 630 3rd Avenue S.W.

CALGARY ALBERTA T2P 4L4
CA

00-D0-BD (hex) Lattice Semiconductor Corp. (LPA)
00D0BD (base 16) Lattice Semiconductor Corp. (LPA)
2115 O'Nel Drive
San Jose CA 95131
US

00-1F-3A (hex) Hon Hai Precision Ind. Co.,Ltd.
001F3A (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

64-7B-D4 (hex) Texas Instruments
647BD4 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

D8-95-2F (hex) Texas Instruments
D8952F (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

88-07-4B (hex) LG Electronics (Mobile Communications)
88074B (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

F4-EB-38
(hex) Sagemcom Broadband SAS
F4EB38 (base 16) Sagemcom Broadband SAS
15 Avenue Ambroise Croizat
DOMERAT Allier 03410
FR

00-1B-BF (hex) Sagemcom Broadband SAS
001BBF (base 16) Sagemcom Broadband SAS
14 Rue Paul Dautier
VÃƒÂ©lizy 78457
FR

00-25-69 (hex) Sagemcom Broadband SAS
002569 (base 16) Sagemcom Broadband SAS

Le Ponnant de Paris
CEDEX Paris 75512
FR

5C-F8-21 (hex) Texas Instruments
5CF821 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

14-1F-BA (hex) IEEE Registration Authority
141FBA (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

80-7B-85 (hex) IEEE Registration Authority
807B85 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

CC-1B-E0 (hex) IEEE Registration Authority
CC1BE0 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

10-F6-81
(hex) vivo Mobile Communication Co., Ltd.
10F681 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

00-22-75 (hex) Belkin International Inc.
002275 (base 16) Belkin International Inc.
12045 E. Waterfront Drive
Playa Vista CA 90094
US

00-78-9E (hex) Sagemcom Broadband SAS
00789E (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
Rueil Malmaison Cedex Hauts de Seine 92848
FR

E8-BE-81 (hex) Sagemcom Broadband SAS

E8BE81 (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
Rueil Malmaison Cedex Hauts de Seine 92848
FR

68-15-90 (hex) Sagemcom Broadband SAS
681590 (base 16) Sagemcom Broadband SAS
250 ROUTE DE L'EMPEREUR
RUEIL MALMAISON CEDEX Choisissez l'état / la province 92848
FR

00-21-7C (hex) 2Wire Inc
00217C (base 16) 2Wire Inc
1764 Automation Parkway
San Jose CA 95131
US

00-1F-B3
(hex) 2Wire Inc
001FB3 (base 16) 2Wire Inc
1764 Automation Parkway
San Jose CA 95131
US

28-16-2E (hex) 2Wire Inc
28162E (base 16) 2Wire Inc
1764 Automation Parkway
San Jose 95131
US

F8-18-97 (hex) 2Wire Inc
F81897 (base 16) 2Wire Inc
1764 Automation Parkway
San Jose 95131
US

94-C1-50 (hex) 2Wire Inc
94C150 (base 16) 2Wire Inc
1764 Automation Parkway
San Jose CA 95131
US

2C-E4-12 (hex) Sagemcom Broadband SAS
2CE412 (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
RUEIL MALMAISON CEDEX Hauts de Seine 92848
FR

F4-0E-11 (hex) IEEE Registration Authority
F40E11 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

24-05-F5 (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
2405F5 (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

78-E3-B5
(hex) Hewlett Packard
78E3B5 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

78-AC-C0 (hex) Hewlett Packard
78ACC0 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

68-B5-99 (hex) Hewlett Packard
68B599 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

1C-C1-DE (hex) Hewlett Packard
1CC1DE (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

3C-35-56 (hex) Cognitec Systems GmbH
3C3556 (base 16) Cognitec Systems GmbH
Großenhainer Str. 101
Dresden Saxony 01127
DE

3C-90-66 (hex) SmartRG, Inc.
3C9066 (base 16) SmartRG, Inc.
501 SE Columbia Shores Blvd
Vancouver WA 98661
US

44-C1-5C (hex) Texas Instruments
44C15C (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

C8-A0-30 (hex) Texas Instruments
C8A030 (base 16) Texas Instruments
12500
TI Boulevard, MS 8723
Dallas TX 75243
US

78-C5-E5 (hex) Texas Instruments
78C5E5 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

0C-FD-37 (hex) SUSE Linux GmbH
0CFD37 (base 16) SUSE Linux GmbH
Maxfeldstraße 5
Nürnberg Bavaria 90409
DE

00-0D-88 (hex) D-Link Corporation
000D88 (base 16) D-Link Corporation
No.8, Li-Hsing 7 Road, Science-Based Ind
Hsinchu 30077
TW

00-11-95 (hex) D-Link Corporation
001195 (base 16) D-Link Corporation
2F No. 233-2, Pao-Chiao Road
Taipei Taiwan 0000
TW

00-13-46 (hex) D-Link Corporation
001346 (base 16) D-Link Corporation
2F, No.233-2, Pao-Chiao Road
Hsin-Tien, Taipei 231
TW

1C-BD-B9 (hex) D-Link International
1CBDB9 (base 16) D-Link International
1 INTERNATIONAL BUSINESS PARK,
SINGAPORE 609917

SG

B8-A3-86 (hex) D-Link International
B8A386 (base 16) D-Link
International
1 International Business Park, #03-12, The Synergy
SINGAPORE 609917
SG

1C-7E-E5 (hex) D-Link International
1C7EE5 (base 16) D-Link International
1 International Business Park, #03-12, The Synergy
SINGAPORE 609917
SG

3C-CF-5B (hex) ICOMM HK LIMITED
3CCF5B (base 16) ICOMM HK LIMITED
SUITES 2302-6, 23/F GREAT EAGLE CTR 23 HARBOUR RD
WANCHAI NA
HK

00-17-E4 (hex) Texas Instruments
0017E4 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

04-E4-51 (hex) Texas Instruments
04E451 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

50-56-63 (hex) Texas Instruments
505663 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

88-33-14 (hex) Texas Instruments
883314 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

B8-FF-FE (hex) Texas
Instruments
B8FFFE (base 16) Texas Instruments

12500 TI Boulevard, MS 8723
Dallas TX 75243
US

00-22-A5 (hex) Texas Instruments
0022A5 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

94-AB-DE (hex) OMX Technology - FZE
94ABDE (base 16) OMX Technology - FZE
Dubai Silicon Oasis - THUB - 1-D-OFF-124
Dubai 65673
AE

9C-DF-B1 (hex) Shenzhen Crave Communication Co., LTD
9CDFB1 (base 16) Shenzhen Crave Communication Co., LTD
F3,8Building,DongFangMing IndustryZone,No.83 DabaoRD.,33 District BaoAn
Shenzhen Guangdong 518000
CN

60-69-44 (hex) Apple, Inc.
606944 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E0-43-DB (hex) Shenzhen ViewAt Technology Co.,Ltd.
E043DB (base 16) Shenzhen ViewAt Technology Co.,Ltd.
9A,Microprofit,6th Gaoxin South Road, High-Tech Industrial Park, Nanshan, Shenzhen, CHINA.
shenzhen guangdong 518057
CN

F4-03-04
(hex) Google, Inc.
F40304 (base 16) Google, Inc.
1600 Amphitheatre Pkwy
Mt. View CA 94043
US

54-60-09 (hex) Google, Inc.
546009 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

A4-77-33 (hex) Google, Inc.

A47733 (base 16) Google, Inc.
1600 Ampitheatre Parkway
Mountain View 94043
US

80-7A-BF (hex) HTC Corporation
807ABF (base 16) HTC Corporation
No. 23, Xinghua Rd., Taoyuan City
Taoyuan County Taiwan 330
TW

34-BA-75 (hex) Everest Networks, Inc
34BA75 (base 16) Everest Networks, Inc
2933 Bunker Hill Ln., Suite 100
Santa Clara CA 95054
US

7C-18-CD (hex) E-TRON Co.,Ltd.
7C18CD (base 16) E-TRON Co.,Ltd.
66-11, Nonhyeon 2-dong, Gangnam-gu
Seoul 06049
KR

00-14-2F (hex) Savvius
00142F (base 16) Savvius
1340 Treat Boulevard, Suite 500
Walnut Creek CA 94597
US

28-BC-18 (hex) SourcingOverseas
Co. Ltd
28BC18 (base 16) SourcingOverseas Co. Ltd
2F., No.616, Sec.5, Zhongshan N. Rd., Shilin Dist.,
Taipei City 111
TW

00-73-8D (hex) Shenzhen TINNO Mobile Technology Corp.
00738D (base 16) Shenzhen TINNO Mobile Technology Corp.
Building, No.33, Xiandong Rd, Xili
Nanshan District, Shenzhen PRC 518053
CN

00-E0-FC (hex) HUAWEI TECHNOLOGIES CO.,LTD
00E0FC (base 16) HUAWEI TECHNOLOGIES CO.,LTD
KEFA ROAD, SCIENCE-BASED INDUSTRIAL PARK
SHENZHEN 518057 12345
CN

64-16-F0 (hex) HUAWEI TECHNOLOGIES CO.,LTD
6416F0 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 2, Zone B,Huawei Industrial Park,Bantian, Longgang District
Shenzhen Guangdong 518129
CN

AC-CF-85 (hex) HUAWEI TECHNOLOGIES CO.,LTD
ACCF85 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan Guangdong 523808
CN

38-71-DE (hex) Apple, Inc.
3871DE (base 16) Apple, Inc.
1
Infinite Loop
Cupertino CA 95014
US

70-81-EB (hex) Apple, Inc.
7081EB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

78-F8-82 (hex) LG Electronics (Mobile Communications)
78F882 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

C0-2C-7A (hex) Shenzhen Horn Audio Co.,Ltd.
C02C7A (base 16) Shenzhen Horn Audio Co.,Ltd.
Block17,Tongfuyu lnd.Zone,Dalang,Baoan
Shenzhen Guang Dong 518109
CN

1C-CB-99 (hex) TCT mobile ltd
1CCB99 (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

A4-2B-B0 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
A42BB0 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

18-8B-45 (hex) Cisco Systems, Inc
188B45
(base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

F4-CA-24 (hex) FreeBit Co., Ltd.
F4CA24 (base 16) FreeBit Co., Ltd.
E.Space Tower 3-6 Maruyama-Cho
Shibuya-ku Tokyo 150-0044
JP

B8-B8-1E (hex) Intel Corporate
B8B81E (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-1D-D6 (hex) ARRIS Group, Inc.
001DD6 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

90-3E-AB (hex) ARRIS Group, Inc.
903EAB (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

30-60-23 (hex) ARRIS Group, Inc.
306023 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

14-AB-F0 (hex) ARRIS Group, Inc.
14ABF0 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

90-1A-CA (hex) ARRIS Group, Inc.
901ACA (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San

Diego CA 92121
US

C8-3F-B4 (hex) ARRIS Group, Inc.
C83FB4 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

E0-B7-0A (hex) ARRIS Group, Inc.
E0B70A (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-D0-B7 (hex) Intel Corporation
00D0B7 (base 16) Intel Corporation
5200 NE ELAM YOUNG PARKWAY
HILLSBORO OR 97124
US

00-1D-CE (hex) ARRIS Group, Inc.
001DCE (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-0E-35 (hex) Intel Corporation
000E35 (base 16) Intel Corporation
2111 NE 25th Ave
Hillsboro OR 97123
US

00-07-E9 (hex) Intel Corporation
0007E9 (base 16) Intel Corporation
2111 NE 25th Avenue
Hillsboro OR 97124
US

00-13-E8 (hex) Intel Corporate
0013E8 (base 16) Intel Corporate
Lot 8, Jalan Hi-tech 2/3
Kulim Kedah 09000
MY

00-13-CE (hex) Intel Corporate
0013CE

(base 16) Intel Corporate
Lot 8, Jalan Hi-tech 2/3
Kulim Kedah 09000
MY

B4-6D-83 (hex) Intel Corporate
B46D83 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C8-34-8E (hex) Intel Corporate
C8348E (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

4C-34-88 (hex) Intel Corporate
4C3488 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

10-02-B5 (hex) Intel Corporate
1002B5 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-40-26 (hex) BUFFALO.INC
004026 (base 16) BUFFALO.INC
AKAMONDORI Bldg., 30-20,Ohsu 3-chome
Naka-ku,Nagoya Aichi Pref. 460-8315
JP

4C-E6-76 (hex) BUFFALO.INC
4CE676 (base 16) BUFFALO.INC
AKAMONDORI Bldg., 30-20,Ohsu 3-chome
Naka-ku,Nagoya Aichi Pref. 460-8315
JP

C0-05-C2 (hex) ARRIS Group, Inc.
C005C2 (base
16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-30-C1 (hex) Hewlett Packard
0030C1 (base 16) Hewlett Packard
11000 WOLFE ROAD
CUPERTINO CA 95014
US

00-80-A0 (hex) Hewlett Packard
0080A0 (base 16) Hewlett Packard
ALAMEDA RIO NEGRO,
houston tx 77070
BR

D4-85-64 (hex) Hewlett Packard
D48564 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

24-BE-05 (hex) Hewlett Packard
24BE05 (base 16) Hewlett Packard
11445 Compaq Center Drive W
Houston 77070
US

FC-3F-DB (hex) Hewlett Packard
FC3FDB (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston TX 77070
US

00-09-2D (hex) HTC Corporation
00092D (base 16) HTC Corporation
No.23 Xinghua Road,
Taoyuan County 330
TW

7C-61-93 (hex) HTC Corporation
7C6193 (base 16) HTC Corporation
No. 23, Xinghua Rd.,
Taoyuan County 330
TW

90-E7-C4
(hex) HTC Corporation
90E7C4 (base 16) HTC Corporation
No. 23, Xinghua Rd.
Taoyuan County Taiwan 330
TW

90-CD-B6 (hex) Hon Hai Precision Ind. Co.,Ltd.
90CDB6 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

40-49-0F (hex) Hon Hai Precision Ind. Co.,Ltd.
40490F (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

00-26-5C (hex) Hon Hai Precision Ind. Co.,Ltd.
00265C (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

00-22-69 (hex) Hon Hai Precision Ind. Co.,Ltd.
002269 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

D8-79-88 (hex) Hon Hai Precision Ind. Co.,Ltd.
D87988 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1,
East Zone 1st Road
Chongqing Chongqing 401332
CN

74-A7-8E (hex) zte corporation
74A78E (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

30-8D-99 (hex) Hewlett Packard
308D99 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

58-20-B1 (hex) Hewlett Packard
5820B1 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070

US

94-57-A5 (hex) Hewlett Packard
9457A5 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

00-0E-B3 (hex) Hewlett Packard
000EB3 (base 16) Hewlett Packard
2580 55th Street
Boulder CO 80301
US

08-00-09 (hex) Hewlett Packard
080009 (base 16) Hewlett Packard
ENTERPRISE SYSTEMS TECH.CENTER
CUPERTINO CA 95014
US

38-EA-A7 (hex) Hewlett Packard
38EAA7 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston
77070
US

AC-16-2D (hex) Hewlett Packard
AC162D (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

80-C1-6E (hex) Hewlett Packard
80C16E (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

B4-B5-2F (hex) Hewlett Packard
B4B52F (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

D0-7E-28 (hex) Hewlett Packard
D07E28 (base 16) Hewlett Packard
11445 Compaq Center Drive

Houston 77070
US

D0-BF-9C (hex) Hewlett Packard
D0BF9C (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

BC-EA-FA (hex) Hewlett Packard
BCEAFA (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

74-46-A0 (hex) Hewlett Packard
7446A0 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

2C-44-FD (hex) Hewlett Packard
2C44FD (base 16) Hewlett
Packard
11445 Compaq Center Drive
Houston 77070
US

44-31-92 (hex) Hewlett Packard
443192 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

A0-D3-C1 (hex) Hewlett Packard
A0D3C1 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

2C-76-8A (hex) Hewlett Packard
2C768A (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

00-0B-CD (hex) Hewlett Packard
000BCD (base 16) Hewlett Packard

20555 State Highway 249
Houston TX 77070
US

00-0F-20 (hex) Hewlett Packard
000F20 (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

00-11-0A (hex) Hewlett Packard
00110A (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

00-17-08 (hex) Hewlett Packard
001708 (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

00-17-A4
(hex) Hewlett Packard
0017A4 (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

88-C2-55 (hex) Texas Instruments
88C255 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

CC-78-AB (hex) Texas Instruments
CC78AB (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

1C-78-39 (hex) Shenzhen Tencent Computer System Co., Ltd.
1C7839 (base 16) Shenzhen Tencent Computer System Co., Ltd.
36/F, Tencent Building, Kejizhongyi Avenue, Hi-Tech Park
Shenzhen Guangdong 518057
CN

04-53-D5 (hex) Sysorex Global Holdings

0453D5 (base 16) Sysorex Global Holdings
Suite 195 2479 E. Bayshore Road
Palo Alto CA 94303
US

EC-52-DC (hex) WORLD MEDIA AND TECHNOLOGY Corp.
EC52DC (base 16) WORLD MEDIA AND TECHNOLOGY Corp.
600 Brickell World Plaza, suite 1775
Miami 33132
US

94-B2-CC (hex) PIONEER CORPORATION
94B2CC (base 16) PIONEER CORPORATION
1-1
Shin-ogura
Kawasaki-shi Kanagawa Prefecture 2120031
JP

04-52-F3 (hex) Apple, Inc.
0452F3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-0E-6D (hex) Murata Manufacturing Co., Ltd.
000E6D (base 16) Murata Manufacturing Co., Ltd.
2288, Oaza-Ohshinohara, Yasu-cho,
Yasu-gun Shiga 520-2393
JP

90-21-06 (hex) SKY UK LIMITED
902106 (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

88-94-71 (hex) Brocade Communications Systems LLC
889471 (base 16) Brocade Communications Systems LLC
1320 Ridder Park Dr
San Jose CA 95131
US

8C-7C-FF (hex) Brocade Communications Systems LLC
8C7CFF (base 16) Brocade Communications Systems LLC
1320 Ridder Park Dr
San Jose CA 95131
US

F4-83-CD (hex) TP-LINK TECHNOLOGIES CO.,LTD.
F483CD (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24 (floors 1,3,4,5) and 28 (floors1-4)
Shennan Rd,
Nanshan Shenzhen,Guangdong Province 518057
CN

FC-D7-33 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
FCD733 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24 (floors 1,3,4,5) and 28 (floors1-4)
Shennan Rd, Nanshan Shenzhen,Guangdong Province 518057
CN

5C-89-9A (hex) TP-LINK TECHNOLOGIES CO.,LTD.
5C899A (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24 (floors 1,3,4,5) and 28 (floors1-4)
Shennan Rd, Nanshan Shenzhen,Guangdong Province 518057
CN

A8-1B-5A (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
A81B5A (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,WUSHA,CHANG'AN,DONGGUAN,GUANGDONG,CHINA
DONGGUAN GUANGDONG 523860
CN

2C-5B-B8 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
2C5BB8 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,WUSHA,CHANG'AN,DONGGUAN,GUANGDONG,CHINA
DONGGUAN GUANGDONG 523860
CN

08-EB-74 (hex) HUMAX
Co., Ltd.
08EB74 (base 16) HUMAX Co., Ltd.
HUMAX Village, 11-4, Sunae-dong, Bundang-gu
Seongnam-si Gyeonggi-do 463-825
KR

28-32-C5 (hex) HUMAX Co., Ltd.
2832C5 (base 16) HUMAX Co., Ltd.
HUMAX Village,216,Hwangsaeul-ro,Bundang-gu
Seongnam-si Gyeonggi-do 463-875
KR

00-21-27 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
002127 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
South Building, No.5 Keyuan Road, Central Zone,
Shenzhen Guangdong 518000

CN

5C-63-BF (hex) TP-LINK TECHNOLOGIES CO.,LTD.
5C63BF (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
1-6F, Building 2, Pingshandayuan Industrial, South Zone,
Shenzhen Guangdong 518000
CN

E0-05-C5 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
E005C5 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 7, Second Part, Honghualing Industrial Zone
Shenzhen Guangdong 518000
CN

38-83-45 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
388345 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building
24 (floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park,Shennan Rd, Nanshan,
Shenzhen, Guangdong Province 518057
CN

EC-88-8F (hex) TP-LINK TECHNOLOGIES CO.,LTD.
EC888F (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24 (floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park
Shenzhen Guangdong 518057
CN

64-66-B3 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
6466B3 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24 (floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park
Shenzhen Guangdong 518057
CN

F0-F3-36 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
F0F336 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24 (floors 1,3,4,5) and 28 (floors1-4)
Shennan Rd, Nanshan Shenzhen,Guangdong Province 518057
CN

BC-46-99 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
BC4699 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24 (floors 1,3,4,5) and 28 (floors1-4)
Shennan
Rd, Nanshan Shenzhen,Guangdong Province 518057
CN

20-02-AF (hex) Murata Manufacturing Co., Ltd.
2002AF (base 16) Murata Manufacturing Co., Ltd.

1-10-1 Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

00-21-E8 (hex) Murata Manufacturing Co., Ltd.
0021E8 (base 16) Murata Manufacturing Co., Ltd.
2288, Oaza-Ohshinohara, Yasu-cho,
Yasu-gun Shiga 520-2393
JP

5C-4C-A9 (hex) HUAWEI TECHNOLOGIES CO.,LTD
5C4CA9 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate,Shiyan Baoan District,
Shenzhen Guangdong 518108
CN

F4-C7-14 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F4C714 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate,Shiyan Baoan District,
Shenzhen Guangdong 518108
CN

28-6E-D4 (hex) HUAWEI TECHNOLOGIES CO.,LTD
286ED4 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
HUAWEI Industrial Base
Bantian,Longgang
Shenzhen guangdong 518129
CN

00-1E-10 (hex) HUAWEI TECHNOLOGIES CO.,LTD
001E10 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
HUAWEI INDUSTRIAL PK BANTIAN, LONGGANG DIST SHENZHEN
SHENZHEN GUANGDONG 518077
CN

D4-78-56 (hex) Avaya Inc
D47856 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

14-2D-27 (hex) Hon Hai Precision Ind. Co.,Ltd.
142D27 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

88-E3-AB (hex) HUAWEI TECHNOLOGIES CO.,LTD

88E3AB (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C4-05-28 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C40528 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

3C-DF-BD (hex) HUAWEI TECHNOLOGIES CO.,LTD
3CDFBD (base 16) HUAWEI
TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

50-9F-27 (hex) HUAWEI TECHNOLOGIES CO.,LTD
509F27 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

80-71-7A (hex) HUAWEI TECHNOLOGIES CO.,LTD
80717A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

98-F5-37 (hex) zte corporation
98F537 (base 16) zte corporation
12/F.,zte R&D building,kejinan Road,
shenzhen guangdong 518057
CN

00-1F-E2 (hex) Hon Hai Precision Ind. Co.,Ltd.
001FE2 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

00-16-CF (hex) Hon Hai Precision Ind. Co.,Ltd.
0016CF (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing
Chongqing 401332
CN

D0-27-88 (hex) Hon Hai Precision Ind. Co.,Ltd.
D02788 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

90-4C-E5 (hex) Hon Hai Precision Ind. Co.,Ltd.
904CE5 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

8C-34-FD (hex) HUAWEI TECHNOLOGIES CO.,LTD
8C34FD (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

58-7F-66 (hex) HUAWEI TECHNOLOGIES CO.,LTD
587F66 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

64-A6-51 (hex) HUAWEI TECHNOLOGIES CO.,LTD
64A651 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

28-3C-E4 (hex) HUAWEI
TECHNOLOGIES CO.,LTD
283CE4 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate,Shiyan Baoan District
Shenzhen Guangdong 518057
CN

08-63-61 (hex) HUAWEI TECHNOLOGIES CO.,LTD
086361 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate
Shenzhen GuangDong 518057
CN

AC-F7-F3 (hex) Xiaomi Communications Co Ltd
ACF7F3 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085

CN

D4-97-0B (hex) Xiaomi Communications Co Ltd
D4970B (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

8C-BE-BE (hex) Xiaomi Communications Co Ltd
8CBEBE (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle
Street Haidian District, Beijing 100085
CN

14-F6-5A (hex) Xiaomi Communications Co Ltd
14F65A (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

00-9E-C8 (hex) Xiaomi Communications Co Ltd
009EC8 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

0C-1D-AF (hex) Xiaomi Communications Co Ltd
0C1DAF (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

34-80-B3 (hex) Xiaomi Communications Co Ltd
3480B3 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

F4-8B-32 (hex) Xiaomi Communications Co Ltd
F48B32 (base 16) Xiaomi Communications Co Ltd
The
Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

AC-4E-91 (hex) HUAWEI TECHNOLOGIES CO.,LTD
AC4E91 (base 16) HUAWEI TECHNOLOGIES CO.,LTD

D1,Huawei Industrial Base,Bantian,Longgang,Shenzhen
ShenZhen GuangDong 518129
CN

28-31-52 (hex) HUAWEI TECHNOLOGIES CO.,LTD
283152 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base,Bantian,Longgang,Shenzhen
ShenZhen GuangDong 518129
CN

04-BD-70 (hex) HUAWEI TECHNOLOGIES CO.,LTD
04BD70 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base
Shenzhen Guangdong 518129
CN

00-1A-B6 (hex) Texas Instruments
001AB6 (base 16) Texas Instruments
108 Wild Basin Ste 350
Austin TX 78746
US

74-88-2A (hex) HUAWEI TECHNOLOGIES CO.,LTD
74882A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1-4,Huawei Industrial Base,Bantian,Longgang
ShenZhen GuangDong 518129
CN

08-19-A6 (hex) HUAWEI
TECHNOLOGIES CO.,LTD
0819A6 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1-4,Huawei Industrial Base,Bantian,Longgang
ShenZhen GuangDong 518129
CN

3C-F8-08 (hex) HUAWEI TECHNOLOGIES CO.,LTD
3CF808 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base,Bantian,Longgang,Shenzhen
ShenZhen GuangDong 518129
CN

48-62-76 (hex) HUAWEI TECHNOLOGIES CO.,LTD
486276 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base,Bantian,Longgang,Shenzhen
ShenZhen GuangDong 518129
CN

B4-15-13 (hex) HUAWEI TECHNOLOGIES CO.,LTD

B41513 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base,Bantian,Longgang,Shenzhen
ShenZhen GuangDong 518129
CN

D8-42-AC (hex) Shanghai Feixun Communication Co.,Ltd.
D842AC (base 16) Shanghai Feixun Communication Co.,Ltd.
Building 90, No. 4855, Guangfulin Road, Songjiang District
Shanghai 201616
CN

54-39-DF (hex) HUAWEI TECHNOLOGIES CO.,LTD
5439DF
(base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base,Bantian,Longgang,Shenzhen
Shenzhen Guangdong 518129
CN

00-12-D1 (hex) Texas Instruments
0012D1 (base 16) Texas Instruments
12500 TI Boulevard,
Dallas 75243
US

00-12-37 (hex) Texas Instruments
001237 (base 16) Texas Instruments
12500 TI Boulevard,
Dallas 75243
US

A0-E6-F8 (hex) Texas Instruments
A0E6F8 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

70-FF-76 (hex) Texas Instruments
70FF76 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

D0-39-72 (hex) Texas Instruments
D03972 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

5C-31-3E (hex) Texas Instruments
5C313E (base 16) Texas Instruments
12500 TI BLVD
Dallas 75243
US

F4-B8-5E (hex) Texas Instruments
F4B85E (base 16) Texas Instruments
12500 TI BLVD
Dallas
75243
US

68-C9-0B (hex) Texas Instruments
68C90B (base 16) Texas Instruments
12500 TI BLVD
Dallas 75243
US

D4-F5-13 (hex) Texas Instruments
D4F513 (base 16) Texas Instruments
12500 TI BLVD
Dallas 75243
US

50-72-24 (hex) Texas Instruments
507224 (base 16) Texas Instruments
12500 TI BLVD
Dallas 75243
US

CC-F9-54 (hex) Avaya Inc
CCF954 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

2C-F4-C5 (hex) Avaya Inc
2CF4C5 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

3C-3A-73 (hex) Avaya Inc
3C3A73 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

FC-83-99 (hex) Avaya Inc
FC8399 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

A0-12-90 (hex) Avaya Inc
A01290 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

38-BB-3C (hex) Avaya Inc
38BB3C
(base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

F8-73-A2 (hex) Avaya Inc
F873A2 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

00-11-2F (hex) ASUSTek COMPUTER INC.
00112F (base 16) ASUSTek COMPUTER INC.
No.150, Li-Te Rd., Peitou
Taipei 112
TW

00-90-D9 (hex) Cisco Systems, Inc
0090D9 (base 16) Cisco Systems, Inc
170 W. TASMAN DR.
SAN JOSE CA 95134-1706
US

00-90-92 (hex) Cisco Systems, Inc
009092 (base 16) Cisco Systems, Inc
170 W. TASMAN DR.
SAN JOSE CA 95134-1706
US

00-10-2F (hex) Cisco Systems, Inc
00102F (base 16) Cisco Systems, Inc
170 W. TASMAN DR.
SAN JOSE CA 95134-1706

US

00-10-0D (hex) Cisco Systems, Inc
00100D (base 16) Cisco Systems, Inc
170 W. TASMAN DR.
SAN JOSE CA 95134-1706
US

00-10-07 (hex) Cisco Systems, Inc
001007 (base 16) Cisco Systems, Inc
170 W. TASMAN DR.
SAN JOSE
CA 95134-1706
US

00-10-14 (hex) Cisco Systems, Inc
001014 (base 16) Cisco Systems, Inc
170 W. TASMAN DR.
SAN JOSE CA 95134-1706
US

00-90-21 (hex) Cisco Systems, Inc
009021 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-90-B1 (hex) Cisco Systems, Inc
0090B1 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-90-BF (hex) Cisco Systems, Inc
0090BF (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-50-D1 (hex) Cisco Systems, Inc
0050D1 (base 16) Cisco Systems, Inc
170 W. TASMAN DR.
SAN JOSE CA 95134-1706
US

7C-95-F3 (hex) Cisco Systems, Inc
7C95F3 (base 16) Cisco Systems, Inc
170 West Tasman Drive

San Jose CA 95134
US

34-DB-FD (hex) Cisco Systems, Inc
34DBFD (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

88-5A-92 (hex) Cisco Systems,
Inc
885A92 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

00-40-0B (hex) Cisco Systems, Inc
00400B (base 16) Cisco Systems, Inc
170 WEST TASMAN DRIVE
SAN JOSE CA 95134-1706
US

00-60-70 (hex) Cisco Systems, Inc
006070 (base 16) Cisco Systems, Inc
170 WEST TASMAN DRIVE
SAN JOSE CA 95134-1706
US

00-E0-1E (hex) Cisco Systems, Inc
00E01E (base 16) Cisco Systems, Inc
170 WEST TASMAN DRIVE
SAN JOSE CA 95134-1706
US

00-1B-FC (hex) ASUSTek COMPUTER INC.
001BFC (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd.,Peitou
Taipei 112
TW

48-5B-39 (hex) ASUSTek COMPUTER INC.
485B39 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd.,Peitou,Taipei 112 ,Taiwan
Taipei Taiwan 112
TW

1C-E6-C7 (hex) Cisco Systems, Inc
1CE6C7 (base 16) Cisco Systems, Inc

170 West Tasman Drive
San Jose CA 95134
US

CC-D5-39 (hex) Cisco Systems, Inc
CCD539
(base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

50-06-04 (hex) Cisco Systems, Inc
500604 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

4C-00-82 (hex) Cisco Systems, Inc
4C0082 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

E4-48-C7 (hex) Cisco SPVTG
E448C7 (base 16) Cisco SPVTG
5030 Sugarloaf Pkwy
Lawrenceville GA 30044
US

00-10-1F (hex) Cisco Systems, Inc
00101F (base 16) Cisco Systems, Inc
170 WEST TASMAN DRIVE
SAN JOSE CA 95134-1706
US

B0-AA-77 (hex) Cisco Systems, Inc
B0AA77 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

BC-C4-93 (hex) Cisco Systems, Inc
BCC493 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

A4-6C-2A (hex) Cisco Systems, Inc

A46C2A (base 16) Cisco Systems, Inc
170 West
Tasman Drive
San Jose CA 95134
US

00-12-17 (hex) Cisco-Linksys, LLC
001217 (base 16) Cisco-Linksys, LLC
121 Theory Dr.
Irvine CA 92612
US

00-13-10 (hex) Cisco-Linksys, LLC
001310 (base 16) Cisco-Linksys, LLC
121 Theory Dr.
Irvine CA 92612
US

00-03-89 (hex) PLANTRONICS, INC.
000389 (base 16) PLANTRONICS, INC.
345 ENCINAL STREET
SANTA CRUZ CA 95060
US

A0-55-4F (hex) Cisco Systems, Inc
A0554F (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

20-4C-9E (hex) Cisco Systems, Inc
204C9E (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

84-B8-02 (hex) Cisco Systems, Inc
84B802 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

F4-0F-1B (hex) Cisco Systems, Inc
F40F1B (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

F8-C2-88 (hex) Cisco
Systems, Inc
F8C288 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

1C-6A-7A (hex) Cisco Systems, Inc
1C6A7A (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

50-67-AE (hex) Cisco Systems, Inc
5067AE (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

F0-9E-63 (hex) Cisco Systems, Inc
F09E63 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

BC-AE-C5 (hex) ASUSTek COMPUTER INC.
BCAEC5 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd.,Peitou,
Taipei 112
TW

10-BF-48 (hex) ASUSTek COMPUTER INC.
10BF48 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd.,Peitou,
Taipei 112
TW

6C-99-89 (hex) Cisco Systems, Inc
6C9989 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

00-1E-E5 (hex) Cisco-Linksys, LLC
001EE5 (base 16) Cisco-Linksys,
LLC
121 Theory Drive
Irvine 92612

US

48-44-87 (hex) Cisco SPVTG
484487 (base 16) Cisco SPVTG
5030 Sugarloaf Pkwy
Lawrenceville GA 30044
US

38-C8-5C (hex) Cisco SPVTG
38C85C (base 16) Cisco SPVTG
5030 Sugarloaf Pkwy
Lawrenceville GA 30044
US

D0-A5-A6 (hex) Cisco Systems, Inc
D0A5A6 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

3C-5E-C3 (hex) Cisco Systems, Inc
3C5EC3 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

64-F6-9D (hex) Cisco Systems, Inc
64F69D (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

18-E7-28 (hex) Cisco Systems, Inc
18E728 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

D0-72-DC (hex) Cisco Systems, Inc
D072DC (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

28-C7-CE (hex) Cisco
Systems, Inc
28C7CE (base 16) Cisco Systems, Inc
170 West Tasman Drive

San Jose CA 95134
US

54-A2-74 (hex) Cisco Systems, Inc
54A274 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

80-E0-1D (hex) Cisco Systems, Inc
80E01D (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

04-6C-9D (hex) Cisco Systems, Inc
046C9D (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

84-B2-61 (hex) Cisco Systems, Inc
84B261 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

70-DE-E2 (hex) Apple, Inc.
70DEE2 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-CB-A1 (hex) Apple, Inc.
F0CBA1 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

18-20-32 (hex) Apple, Inc.
182032 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA
95014
US

60-FA-CD (hex) Apple, Inc.
60FACD (base 16) Apple, Inc.

1 Infinite Loop
Cupertino CA 95014
US

00-3E-E1 (hex) Apple, Inc.
003EE1 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

40-3C-FC (hex) Apple, Inc.
403CFC (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

48-60-BC (hex) Apple, Inc.
4860BC (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

34-51-C9 (hex) Apple, Inc.
3451C9 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

40-6C-8F (hex) Apple, Inc.
406C8F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D0-23-DB (hex) Apple, Inc.
D023DB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

58-55-CA (hex) Apple, Inc.
5855CA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

DC-2B-61 (hex) Apple, Inc.
DC2B61 (base 16) Apple,

Inc.
1 Infinite Loop
Cupertino CA 95014
US

40-A6-D9 (hex) Apple, Inc.
40A6D9 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

64-B9-E8 (hex) Apple, Inc.
64B9E8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D8-A2-5E (hex) Apple, Inc.
D8A25E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-23-12 (hex) Apple, Inc.
002312 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

60-FB-42 (hex) Apple, Inc.
60FB42 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-0A-27 (hex) Apple, Inc.
000A27 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-1D-4F (hex) Apple, Inc.
001D4F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

04-0C-CE (hex) Apple, Inc.

040CCE (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

FC-25-3F
(hex) Apple, Inc.
FC253F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

18-34-51 (hex) Apple, Inc.
183451 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

0C-77-1A (hex) Apple, Inc.
0C771A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

28-6A-BA (hex) Apple, Inc.
286ABA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

4C-B1-99 (hex) Apple, Inc.
4CB199 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C0-9F-42 (hex) Apple, Inc.
C09F42 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

54-EA-A8 (hex) Apple, Inc.
54EAA8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

28-E1-4C (hex) Apple, Inc.
28E14C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E4-C6-3D (hex) Apple, Inc.
E4C63D (base 16) Apple, Inc.
1
Infinite Loop
Cupertino CA 95014
US

54-E4-3A (hex) Apple, Inc.
54E43A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

04-DB-56 (hex) Apple, Inc.
04DB56 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

04-E5-36 (hex) Apple, Inc.
04E536 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

AC-3C-0B (hex) Apple, Inc.
AC3C0B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

70-11-24 (hex) Apple, Inc.
701124 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

04-26-65 (hex) Apple, Inc.
042665 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

EC-35-86 (hex) Apple, Inc.
EC3586 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

DC-9B-9C (hex) Apple, Inc.
DC9B9C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

54-72-4F
(hex) Apple, Inc.
54724F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

8C-7C-92 (hex) Apple, Inc.
8C7C92 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B0-34-95 (hex) Apple, Inc.
B03495 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A8-BB-CF (hex) Apple, Inc.
A8BBCF (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

AC-7F-3E (hex) Apple, Inc.
AC7F3E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

28-0B-5C (hex) Apple, Inc.
280B5C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

AC-FD-EC (hex) Apple, Inc.
ACFDEC (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

34-C0-59 (hex) Apple, Inc.
34C059 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-D1-A9 (hex) Apple, Inc.
F0D1A9 (base 16) Apple, Inc.
1 Infinite
Loop
Cupertino CA 95014
US

14-10-9F (hex) Apple, Inc.
14109F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

04-F7-E4 (hex) Apple, Inc.
04F7E4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F4-37-B7 (hex) Apple, Inc.
F437B7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

70-56-81 (hex) Apple, Inc.
705681 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

FC-A3-86 (hex) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
FCA386 (base 16) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
Unit East Block22-24/F,Skyworth semiconductor design Bldg., Gaoxin Ave.4.S.,Nanshan District,Shenzhen,China

SHENZHEN GUANGDONG 518057
CN

D8-CF-9C (hex) Apple, Inc.
D8CF9C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

78-FD-94 (hex) Apple, Inc.
78FD94 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino
CA 95014
US

2C-BE-08 (hex) Apple, Inc.
2CBE08 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E8-80-2E (hex) Apple, Inc.
E8802E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-61-71 (hex) Apple, Inc.
006171 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

DC-37-14 (hex) Apple, Inc.
DC3714 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

40-33-1A (hex) Apple, Inc.
40331A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

CC-C7-60 (hex) Apple, Inc.
CCC760 (base 16) Apple, Inc.

1 Infinite Loop
Cupertino CA 95014
US

28-F0-76 (hex) Apple, Inc.
28F076 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

BC-4C-C4 (hex) Apple, Inc.
BC4CC4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

6C-40-08 (hex) Apple, Inc.
6C4008
(base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

20-A2-E4 (hex) Apple, Inc.
20A2E4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

14-13-57 (hex) ATP Electronics, Inc.
141357 (base 16) ATP Electronics, Inc.
2590 North First Street Suite 150
San Jose CA 95131
US

D8-48-EE (hex) Hangzhou Xueji Technology Co., Ltd.
D848EE (base 16) Hangzhou Xueji Technology Co., Ltd.
Room 1902, Tower D, West Intime City
Hangzhou Zhejiang 310012
CN

A8-47-4A (hex) Hon Hai Precision Ind. Co.,Ltd.
A8474A (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

C4-00-49 (hex) Kamama

C40049 (base 16) Kamama
100 Enterprise Way
Scotts Valley CA 95066
US

FC-CF-43 (hex) HUIZHOU CITY HUIYANG DISTRICT MEISIQI INDUSTRY DEVELOPMENT CO,.LTD
FCCF43 (base 16) HUIZHOU CITY HUIYANG DISTRICT MEISIQI INDUSTRY DEVELOPMENT CO,.LTD
Meisiqi lndustrialPark,Yuechang,
Huizhou Guangdong 516000
CN

B4-EF-04 (hex) DAIHAN Scientific Co., Ltd.
B4EF04 (base 16) DAIHAN Scientific Co., Ltd.
326, Sinpyoungsukhwaro
Wonju-si, Gangwon-do 26358
KR

A4-DE-C9 (hex) QLove Mobile Intelligence Information Technology (W.H.) Co. Ltd.
A4DEC9 (base 16) QLove Mobile Intelligence Information Technology (W.H.) Co. Ltd.
Sun Jia Tuan Township, Huan Cui District, Weihai, P.R.China
Weihai Shan Dong 264201
CN

CC-E0-C3 (hex) EXTEN Technologies, Inc.
CCE0C3 (base 16) EXTEN Technologies, Inc.
4201 W Parmer Lane Bldg A, Ste 200
Austin TX 78727
US

7C-01-91 (hex) Apple, Inc.
7C0191 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

0C-54-B9 (hex) Nokia
0C54B9 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

E4-35-C8 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E435C8 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

2C-1B-C8 (hex) Hunan Topview Network System CO.,LTD
2C1BC8 (base 16) Hunan Topview Network System CO.,LTD
RM 3002,3009,3010 Yuelu High-Tech Zone, Hanpu Couty, Yuelu District
Changsha Hunan 410208
CN

7C-71-76 (hex) Wuxi iData Technology Company Ltd.
7C7176 (base 16) Wuxi iData Technology Company Ltd.
Floor 11, Building B1, Wuxi(Binhu) National Sensing Information Center, No. 999 Gaolang East Road, Wuxi City, Jiangsu Province, P.R.C.
Wuxi Jiangsu 214131
CN

64-6A-74 (hex) AUTH-SERVERS, LLC
646A74 (base 16) AUTH-SERVERS, LLC
43479 Stukely Dr
Sterling VA 20166
US

4C-8E-CC (hex) SILKAN SA
4C8ECC (base 16) SILKAN SA
Immeuble le Sirius
Meudon La Foret Ile de France 92360
FR

B8-B2-EB (hex) Googol Technology (HK) Limited
B8B2EB (base 16) Googol Technology (HK) Limited
Unit 1008-09, 10/F C-Bons
International Center
Kwun Tong Kowloon nil
HK

90-8D-78 (hex) D-Link International
908D78 (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

80-D6-05 (hex) Apple, Inc.
80D605 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

98-E8-48 (hex) Axiim
98E848 (base 16) Axiim
12126 NE 106th Pl

Kirkland WA 98033
US

40-40-A7 (hex) Sony Corporation
4040A7 (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

C0-4A-09 (hex) Zhejiang Everbright Communication Equip. Co,. Ltd
C04A09 (base 16) Zhejiang Everbright Communication Equip. Co,. Ltd
291# Wei 19th Rd.
Wenzhou Zhejiang 325600
CN

A0-1E-0B (hex) MINIX Technology Limited
A01E0B (base 16) MINIX Technology Limited
Unit 1501, Chevalier Commercial Center
Kowloon Bay Kowloon 000000
HK

68-E8-EB (hex) Linktel Technologies Co.,Ltd
68E8EB
(base 16) Linktel Technologies Co.,Ltd
No.20 University Science Park Road,
Wuhan Hubei 430223
CN

A8-45-CD (hex) Siselectron Technology LTD.
A845CD (base 16) Siselectron Technology LTD.
5F., No.232, Sec. 2, Sioulang Rd., Yonghe Dist.,
New Taipei City Taiwan 23453
TW

D0-C1-93 (hex) SKYBELL, INC
D0C193 (base 16) SKYBELL, INC
1 JENNER, SUITE 100
IRVINE CA 92618
US

D4-83-04 (hex) SHENZHEN FAST TECHNOLOGIES CO.,LTD
D48304 (base 16) SHENZHEN FAST TECHNOLOGIES CO.,LTD
Room 202,Building No.5,Section 30,No.2 of Kefa Road,Nanshan District,Shenzhen,P.R.China
Shenzhen Guangdong 518057
CN

DC-2B-2A (hex) Apple, Inc.
DC2B2A (base 16) Apple, Inc.

1 Infinite Loop
Cupertino CA 95014
US

AC-64-62 (hex) zte corporation
AC6462 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

48-13-7E (hex) Samsung
Electronics Co.,Ltd
48137E (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C0-25-A2 (hex) NEC Platforms, Ltd.
C025A2 (base 16) NEC Platforms, Ltd.
2-3 Kandatsukasamachi
Chiyodaku Tokyo 101-8532
JP

84-10-0D (hex) Motorola Mobility LLC, a Lenovo Company
84100D (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

D0-0F-6D (hex) T&W Electronics Company
D00F6D (base 16) T&W Electronics Company
89# Jiang Nan RD, Lu Du
Taicang Jiangsu 21500
CN

9C-8D-D3 (hex) Leonton Technologies
9C8DD3 (base 16) Leonton Technologies
3F, No.501-16, Zhongzheng Rd., Xindian Dist.
New Taipei City Taiwan 231
TW

A4-38-31 (hex) RF elements s.r.o.
A43831 (base 16) RF elements s.r.o.
Jasenovská 2528
Humenne SK 06603
SK

38-05-46 (hex) Foctek Photonics, Inc.

380546 (base 16) Foctek Photonics, Inc.
No.
8, the 7th Road Phase II of Minhou Tieling Industrial District
Fuzhou Fujian 350100
CN

10-CC-1B (hex) Liverock technologies,INC
10CC1B (base 16) Liverock technologies,INC
Shinjuku 5-13-10,Joshu-Bldg. 4F
Tokyo Shinjuku-ku 160-0022
JP

E8-07-34 (hex) Champion Optical Network Engineering, LLC
E80734 (base 16) Champion Optical Network Engineering, LLC
23645 Mercantile Rd.
Beachwood OH 44122
US

08-9B-4B (hex) iKuai Networks
089B4B (base 16) iKuai Networks
So Boss Tech Center 2 # 716
Fengtai District Beijing 100068
CN

44-73-D6 (hex) Logitech
4473D6 (base 16) Logitech
7700 Gateway Blvd
Newark CA 94560
US

30-F7-72 (hex) Hon Hai Precision Ind. Co.,Ltd.
30F772 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

DC-3C-F6 (hex) Atomic Rules LLC
DC3CF6 (base 16) Atomic Rules LLC
287 Chester Rd
Auburn
NH 03032
US

6C-72-20 (hex) D-Link International
6C7220 (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

30-A2-43 (hex) Shenzhen Prifox Innovation Technology Co., Ltd.
30A243 (base 16) Shenzhen Prifox Innovation Technology Co., Ltd.
Room B905, Bldg 4, Software Industry Park,
Shenzhen Guangdong Province 518057

E4-1A-2C (hex) ZPE Systems, Inc.
E41A2C (base 16) ZPE Systems, Inc.
39420 Liberty Street, #253
Fremont CA 94538
US

E8-BD-D1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E8BDD1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A8-15-D6 (hex) Shenzhen Meione Technology CO., LTD
A815D6 (base 16) Shenzhen Meione Technology CO., LTD
12th FloorFutian Sports Park Cultural Industries Headquarters Building No. 3030 Fuqiang Road, Futian District
Shenzhen Guangdong
518000
CN

C0-7C-D1 (hex) PEGATRON CORPORATION
C07CD1 (base 16) PEGATRON CORPORATION
5F No. 76, Ligong St., Beitou District
Taipei City Taiwan 112
TW

F4-15-35 (hex) SPON Communication Technology Co.,Ltd
F41535 (base 16) SPON Communication Technology Co.,Ltd
B Building, Lugu International Industrial Zone, NO.229, Tongzipo Road, Changsha, China
changsha hunan 410000
CN

38-0A-AB (hex) Formlabs
380AAB (base 16) Formlabs
35 Medford St
Somerville MA 02143
US

E0-1A-EA (hex) Allied Telesis, Inc.
E01AEA (base 16) Allied Telesis, Inc.
3041 Orchard Parkway
San Jose CALIFORNIA 95134

US

D4-45-E8 (hex) Jiangxi Hongpai Technology Co., Ltd.
D445E8 (base 16) Jiangxi Hongpai Technology Co., Ltd.
5th Floor,C Region, Zhejiang University Science Park,No. 698,
Nanchang Jiangxi 330096
CN

38-2D-E8 (hex) Samsung Electronics Co.,Ltd
382DE8 (base 16) Samsung Electronics Co.,Ltd
#94-1,
Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C0-89-97 (hex) Samsung Electronics Co.,Ltd
C08997 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

04-C2-3E (hex) HTC Corporation
04C23E (base 16) HTC Corporation
No. 23, Xinghua Rd., Taoyuan City
Taoyuan County Taiwan 330
TW

90-D8-F3 (hex) zte corporation
90D8F3 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

34-26-06 (hex) CarePredict, Inc.
342606 (base 16) CarePredict, Inc.
PO Box 551686
Fort Lauderdale Florida 33355
US

38-B7-25 (hex) Wistron Infocomm (Zhongshan) Corporation
38B725 (base 16) Wistron Infocomm (Zhongshan) Corporation
No.38,East Keji Road,Zhongshan Torch Development Zone,Zhongshan City,Guangdong,China
Zhongshan Guangdong 528437
CN

AC-EC-80 (hex) ARRIS Group, Inc.
ACEC80 (base 16) ARRIS Group, Inc.
6450

Sequence Drive
San Diego CA 92121
US

FC-33-5F (hex) Polyera
FC335F (base 16) Polyera
8045 Lamon Avenue
Skokie IL 60077
US

F0-26-24 (hex) WAFA TECHNOLOGIES CO., LTD.
F02624 (base 16) WAFA TECHNOLOGIES CO., LTD.
Room302, Longtaili Building
Shenzhen Guangdong 518057
CN

F8-F4-64 (hex) Rawe Electonic GmbH
F8F464 (base 16) Rawe Electonic GmbH
Bregenzer Str. 67-69
Weiler im Allgäu Bavaria 88171
DE

58-F1-02 (hex) BLU Products Inc.
58F102 (base 16) BLU Products Inc.
Tower 4, Excellence Century Center
Shenzhen Guangdong 518000
CN

F4-C6-13 (hex) Alcatel-Lucent Shanghai Bell Co., Ltd
F4C613 (base 16) Alcatel-Lucent Shanghai Bell Co., Ltd
No. 389, Ningqiao Road, Pudong Jinqiao
Shanghai 201206
CN

44-5F-8C (hex) Intercel Group Limited
445F8C (base 16) Intercel Group Limited
Unit 6, 17/F, Vanta industrial Centre,
New Territories, Hong Kong
CN

B8-89-81
(hex) Chengdu InnoThings Technology Co., Ltd.
B88981 (base 16) Chengdu InnoThings Technology Co., Ltd.
West Port Technology Enterprise Incubator Park
Chengdu Sichuan 610000
CN

AC-67-6F (hex) Electrocompaniet A.S.

AC676F (base 16) Electrocompaniet A.S.
Breivikveien 7
Tau Rogaland 4120
NO

E0-55-3D (hex) Cisco Meraki
E0553D (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco 94158
US

64-0D-E6 (hex) Petra Systems
640DE6 (base 16) Petra Systems
One Cragwood Road
South Plainfield NJ 07080
US

38-01-95 (hex) Samsung Electronics Co.,Ltd
380195 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

94-9F-3E (hex) Sonos, Inc.
949F3E (base 16) Sonos, Inc.
614 Chapala St
Santa Barbara CA 93101
US

5C-51-88 (hex) Motorola Mobility LLC, a Lenovo Company
5C5188 (base 16) Motorola Mobility LLC,
a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

EC-01-33 (hex) TRINUS SYSTEMS INC.
EC0133 (base 16) TRINUS SYSTEMS INC.
UNITECH VENTURE TOWN SUITE 801
GOYANG-SI GYEONGGI-DO 410-722
KR

44-97-5A (hex) SHENZHEN FAST TECHNOLOGIES CO.,LTD
44975A (base 16) SHENZHEN FAST TECHNOLOGIES CO.,LTD
Room 202,Building No.5,Section 30,No.2 of Kefa Road,Nanshan District,Shenzhen,P.R.China
Shenzhen Guangdong 518057
CN

50-45-F7 (hex) Liuhe Intelligence Technology Ltd.
5045F7 (base 16) Liuhe Intelligence Technology Ltd.
7th Floor,Information Building,
Beijing Beijing 100085
CN

DC-A3-AC (hex) RBcloudtech
DCA3AC (base 16) RBcloudtech
5th Floor, Jiangnan Street NO.3900, Binjiang District, Hangzhou City.
Hangzhou Zhejiang 310052
CN

84-D4-C8 (hex) Widex A/S
84D4C8 (base 16) Widex A/S
Nymoellevej 6
Lynge Alleroed DK3540
DK

EC-21-E5 (hex) Toshiba
EC21E5 (base
16) Toshiba
2-9,Suehiro-Cho
Ome Tokyo 1988710
JP

28-B9-D9 (hex) Radisys Corporation
28B9D9 (base 16) Radisys Corporation
5435 NE Dawson Creek Drive
Hillsboro OR 97124
US

0C-E7-25 (hex) Microsoft Corporation
0CE725 (base 16) Microsoft Corporation
1 Microsoft Way
Redmond Washington 98052
FI

30-89-D3 (hex) HONGKONG UCLOUDLINK NETWORK TECHNOLOGY LIMITED
3089D3 (base 16) HONGKONG UCLOUDLINK NETWORK TECHNOLOGY LIMITED
FLAT A-8 9/F DELYA INDUSTRIAL CENTRE 7 SHEK PAI TAU ROAD
Hong Kong
CN

84-2E-27 (hex) Samsung Electronics Co.,Ltd
842E27 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

1C-AD-D1 (hex) Bosung Electronics Co., Ltd.
1CADD1 (base 16) Bosung Electronics Co., Ltd.
74-12, Saemaeul-ro.
Gumi-si Gyeongsangbuk-do 730-930
KR

08-2C-B0 (hex) Network Instruments
082CB0 (base 16) Network Instruments
10701 Red Circle
Dr
Minnetonka Minnesota 55343
US

E0-DB-10 (hex) Samsung Electronics Co.,Ltd
E0DB10 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A0-13-CB (hex) Fiberhome Telecommunication Technologies Co.,LTD
A013CB (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

D0-04-92 (hex) Fiberhome Telecommunication Technologies Co.,LTD
D00492 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

5C-B3-95 (hex) HUAWEI TECHNOLOGIES CO.,LTD
5CB395 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

90-6C-AC (hex) Fortinet, Inc.
906CAC (base 16) Fortinet, Inc.
899 Kifer Road
Sunnyvale California 94086
US

2C-C5-48 (hex) IAdea Corporation
2CC548 (base 16) IAdea Corporation
3F, No.33, Lane

77, Xing-ai Road
Taipei Taiwan 114
TW

14-DD-A9 (hex) ASUSTek COMPUTER INC.
14DDA9 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

3C-DA-2A (hex) zte corporation
3CDA2A (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

14-32-D1 (hex) Samsung Electronics Co.,Ltd
1432D1 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

18-16-C9 (hex) Samsung Electronics Co.,Ltd
1816C9 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

54-61-72 (hex) ZODIAC AEROSPACE SAS
546172 (base 16) ZODIAC AEROSPACE SAS
61 rue Pierre Curie
PLAISIR 78370
FR

EC-60-E0 (hex) AVI-ON LABS
EC60E0 (base 16) AVI-ON LABS
2585 LARKSPUR DR
PARK CITY UT 84060
US

3C-A3-1A (hex) Oilfind International
LLC
3CA31A (base 16) Oilfind International LLC
12651 Briar Forest Dr, Suite 151
Houston Texas 77077
US

18-4F-32 (hex) Hon Hai Precision Ind. Co.,Ltd.

184F32 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

00-FC-8D (hex) Hitron Technologies. Inc
00FC8D (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

B4-6D-35 (hex) Dalian Seasky Automation Co;Ltd
B46D35 (base 16) Dalian Seasky Automation Co;Ltd
Room 408, DUT Science & Technology Park Building B, No.80 Software Park Road, High-Tech Industrial Zone, Dalian, Liaoning, China
Dalian Liao Ning 116023
CN

84-DF-19 (hex) Chuango Security Technology Corporation
84DF19 (base 16) Chuango Security Technology Corporation
6-17, Overseas Students Pioneer Park,
Fuzhou Fujian 350015
CN

DC-15-DB
(hex) Ge Ruili Intelligent Technology (Beijing) Co., Ltd.
DC15DB (base 16) Ge Ruili Intelligent Technology (Beijing) Co., Ltd.
Room 821, block E, No.6 Taiping Street, Xicheng District
Beijing 100005
CN

64-59-F8 (hex) Vodafone Omnitel B.V.
6459F8 (base 16) Vodafone Omnitel B.V.
VIA JERVIS, 13 10015 IVREA (TO)

IT

6C-44-18 (hex) Zappware
6C4418 (base 16) Zappware
Ilgatlaan 19
Hasselt Limburg 3500
BE

A8-D4-09 (hex) USA 111 Inc
A8D409 (base 16) USA 111 Inc
5885 Green Pointe Dr. Suite B Groveport, OH 43125
Groveport Ohio 43125
US

6C-45-98 (hex) Antex Electronic Corp.
6C4598 (base 16) Antex Electronic Corp.
170 He Ping St.,
Tainan City 73443
TW

68-A3-78 (hex) FREEBOX SAS
68A378 (base 16) FREEBOX SAS
16 rue de la Ville l'Eveque
PARIS IdF 75008
FR

E8-F2-E3 (hex) Starcor Beijing Co.,Limited
E8F2E3 (base 16) Starcor Beijing Co.,Limited
NO.210
Block B, Building 2
Beijing Berijing 100089
CN

30-F3-35 (hex) HUAWEI TECHNOLOGIES CO.,LTD
30F335 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B8-78-79 (hex) Roche Diagnostics GmbH
B87879 (base 16) Roche Diagnostics GmbH
Sandhofer Strasse 116
Mannheim Baden-Wuerttemberg 68305
DE

D0-83-D4 (hex) Xtel Wireless ApS
D083D4 (base 16) Xtel Wireless ApS
Alfred Nobels vej 21E
Aalborg Oest Nordjylland 9220
DK

5C-A1-78 (hex) TableTop Media (dba Ziosk)
5CA178 (base 16) TableTop Media (dba Ziosk)
12404 Park Central Drive
Dallas TX 75251
US

34-0A-22 (hex) TOP-ACCESS ELECTRONICS CO LTD
340A22 (base 16) TOP-ACCESS ELECTRONICS CO LTD
No. 2 Building
MingZhi Street BaoAn District,ShenzheN 518131

CN

E8-66-C4 (hex) Diamanti
E866C4 (base 16) Diamanti
111 N. Market Street
San Jose CA 95113
US

D4-D7-A9
(hex) Shanghai Kaixiang Info Tech LTD
D4D7A9 (base 16) Shanghai Kaixiang Info Tech LTD
A401, NO.509 Caobao Road, Shanghai, PRC
Shanghai Shanghai 200233
CN

60-19-70 (hex) HUIZHOU QIAOXING ELECTRONICS TECHNOLOGY CO., LTD.
601970 (base 16) HUIZHOU QIAOXING ELECTRONICS TECHNOLOGY CO., LTD.
Room -611, TianAn High-Tech Plaza II , Futian District, Shenzhen, China
Shenzhen Guangdong 518040
CN

A4-08-EA (hex) Murata Manufacturing Co., Ltd.
A408EA (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

34-3D-98 (hex) JinQianMao Technology Co.,Ltd.
343D98 (base 16) JinQianMao Technology Co.,Ltd.
58#,Jiangbin Road,Taijiang District
Fuzhou Fujian 350009
CN

80-74-59 (hex) K's Co.,Ltd.
807459 (base 16) K's Co.,Ltd.
2864-16 Ryomitsuyanagi
Yonago Tottori 683-0853
JP

F4-47-13 (hex) Leading Public Performance Co., Ltd.
F44713 (base
16) Leading Public Performance Co., Ltd.
137/77-78 Moo 1 Nanthanagarden Soi 12 Pathum-Rangsit Road Banklang Muang Pathumthani 12000 Thailand
Pathumthani Pathumthani 12000
TH

9C-BE-E0 (hex) Biosoundlab Co., Ltd.
9CBEE0 (base 16) Biosoundlab Co., Ltd.

(Sangdaewon-dong, Sunil Technopia 907-908ho)
Jungwon-gu Seongnam-si Gyeonggi-do, 462726
KR

0C-41-3E (hex) Microsoft Corporation
0C413E (base 16) Microsoft Corporation
1 Microsoft Way
Redmond Washington 98052
FI

58-47-04 (hex) Shenzhen Webridge Technology Co.,Ltd
584704 (base 16) Shenzhen Webridge Technology Co.,Ltd
B2-22/F Chinese Technology Development Institute, High South Road, Nanshan District, Shenzhen, China
Shenzhen Guangdong 518000
CN

E4-69-5A (hex) Dictum Health, Inc.
E4695A (base 16) Dictum Health, Inc.
255 3rd Street, Suite 102
Oakland CA 94607
US

7C-7A-53 (hex) Phytrex Technology Corp.
7C7A53 (base 16) Phytrex
Technology Corp.
8F-16, No.81, Shuili Rd.,
Hsinchu Taiwan 30059
TW

10-78-73 (hex) Shenzhen Jinkeyi Communication Co., Ltd.
107873 (base 16) Shenzhen Jinkeyi Communication Co., Ltd.
No. 10 Shun King Road, Zhen Ping Xi Cun,
Shenzhen Guangdong 518117
CN

48-EE-0C (hex) D-Link International
48EE0C (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

EC-3C-88 (hex) MCNEX Co.,Ltd.
EC3C88 (base 16) MCNEX Co.,Ltd.
Hanshin IT Tower2 11F, Digital lo 9 gil
Geumcheon-Gu Seoul 153-712
KR

90-C3-5F (hex) Nanjing Jiahao Technology Co., Ltd.

90C35F (base 16) Nanjing Jiahao Technology Co., Ltd.
Moling Industrial Park, Development Zone, Jiangning, Nanjing
Nanjing Jiangsu 211111
CN

C8-08-E9 (hex) LG Electronics
C808E9 (base 16) LG Electronics
222 LG-ro, JINWI-MYEON
Pyeongtaek-si Gyeonggi-do 451-713
KR

18-3A-2D (hex) Samsung
Electronics Co.,Ltd
183A2D (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

08-D3-4B (hex) Techman Electronics (Changshu) Co., Ltd.
08D34B (base 16) Techman Electronics (Changshu) Co., Ltd.
No.66, Dalian Road, High-Tech Industrial Park
Changshu Jiangsu Province 215500
CN

78-A3-51 (hex) SHENZHEN ZHIBOTONG ELECTRONICS CO.,LTD
78A351 (base 16) SHENZHEN ZHIBOTONG ELECTRONICS CO.,LTD
2F,Bldg. A,Kangmai Industrial Park,Renmin Rd
Shenzhen Guangdong 518110
CN

F0-2A-23 (hex) Creative Next Design
F02A23 (base 16) Creative Next Design
6-6-15, Kaminopporo 3-jo,
Sapporo-shi Hokkaido 004-0033
JP

D0-6F-4A (hex) TOPWELL INTERNATIONAL HOLDINGS LIMITED
D06F4A (base 16) TOPWELL INTERNATIONAL HOLDINGS LIMITED
Unit 2506, 25/F, Prosperity Place,
Hong Kong N/A N/A
CN

04-92-EE (hex) iway AG
0492EE (base 16) iway AG
Badenerstrasse 569
Zurich ZH 8048
CH

B4-EF-39
(hex) Samsung Electronics Co.,Ltd
B4EF39 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

74-A0-63 (hex) HUAWEI TECHNOLOGIES CO.,LTD
74A063 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

70-AD-54 (hex) Malvern Instruments Ltd
70AD54 (base 16) Malvern Instruments Ltd
Grovewood Rd
Malvern Worcestershire WR14 1XZ
GB

90-00-DB (hex) Samsung Electronics Co.,Ltd
9000DB (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

EC-E2-FD (hex) SKG Electric Group(Thailand) Co., Ltd.
ECE2FD (base 16) SKG Electric Group(Thailand) Co., Ltd.
3F,The Second Building,Sanhe village , Longhua Rd, Baoan Dist., Shenzhen, China
Shenzhen Guangdong 518301
CN

14-8F-21 (hex) Garmin International
148F21 (base 16) Garmin International
1200 E. 151st
St
Olathe KS 66062
US

9C-68-5B (hex) Octonion SA
9C685B (base 16) Octonion SA
EPFL Innovation Park, Bâtiment C
Lausanne Vaud 1015
CH

BC-6E-64 (hex) Sony Corporation
BC6E64 (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075

JP

6C-2E-72 (hex) B&B EXPORTING LIMITED
6C2E72 (base 16) B&B EXPORTING LIMITED
Bldg.#D,Xinhe Industrial Park
Guangzhou Guangdong 510880
CN

5C-CC-FF (hex) Techroutes Network Pvt Ltd
5CCCFF (base 16) Techroutes Network Pvt Ltd
WW1-SF, Malibu Towne
Gurgaon Haryana 122002
IN

FC-32-88 (hex) CELOT Wireless Co., Ltd
FC3288 (base 16) CELOT Wireless Co., Ltd
4Fl.,NongHyup Bldg.,#1588-10 Gwanyang-Dong
Anyang City, Gyeonggi-Do 431-727
KR

D8-74-95 (hex) zte corporation
D87495 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

7C-53-4A (hex) Metamako
7C534A
(base 16) Metamako
Suite 207
Sydney Other 2000
AU

BC-B3-08 (hex) HONGKONG RAGENTEK COMMUNICATION TECHNOLOGY CO.,LIMITED
BCB308 (base 16) HONGKONG RAGENTEK COMMUNICATION TECHNOLOGY CO.,LIMITED
Building D10-D11
PuDong District Shanghai 201315
CN

34-4C-A4 (hex) amazipoint technology Ltd.
344CA4 (base 16) amazipoint technology Ltd.
1F,No. 14, Aly. 32, Ln. 133, Zhongyang Rd.,
New Taipei City, 231
TW

A8-F0-38 (hex) SHEN ZHEN SHI JIN HUA TAI ELECTRONICS CO.,LTD
A8F038 (base 16) SHEN ZHEN SHI JIN HUA TAI ELECTRONICS CO.,LTD
Room A,Forth Floor,Building B,Hengmingzhu Industrial Park,Xixiang Forist and Fruit Bureau,Qianjin Road, Baoan

District,Shenzhen city,Guangdong provice
518126
CN

AC-C7-3F (hex) VITSMO CO., LTD.
ACC73F (base 16) VITSMO CO., LTD.
RM1418-1419, HansinIntervalley 24 Bldg.
SEOUL 135-918
KR

9C-E2-30 (hex) JULONG CO,.LTD.
9CE230 (base 16) JULONG CO,.LTD.
308QianShanZhong
Road,TieDong District,AnShan
AnShan City LiaoNing Province 114051
CN

5C-3B-35 (hex) Gehirn Inc.
5C3B35 (base 16) Gehirn Inc.
1-3-6 Kudan-kita
Chiyoda Tokyo 102-0073
JP

E4-FE-D9 (hex) EDMI Europe Ltd
E4FED9 (base 16) EDMI Europe Ltd
The Grainger Suite, Dobson House, Regent Centre
Newcastle upon Tyne Newcastle upon Tyne NE3 3PF
GB

5C-41-E7 (hex) Wiatec International Ltd.
5C41E7 (base 16) Wiatec International Ltd.
Unit 601-605,TaoJinDi Electronic Commercial
Shenzhen GuangDong 518131
CN

BC-E7-67 (hex) Quanzhou TDX Electronics Co., Ltd
BCE767 (base 16) Quanzhou TDX Electronics Co., Ltd
Hi-tech Park economic and tech development zone
Quanzhou Fujian province 362005
CN

EC-74-BA (hex) Hirschmann Automation and Control GmbH
EC74BA (base 16) Hirschmann Automation and Control GmbH
Stuttgarter Strasse 45-51
Neckartenzlingen Baden-Württemberg 72654
DE

5C-F7-C3

(hex) SYNTECH (HK) TECHNOLOGY LIMITED
5CF7C3 (base 16) SYNTECH (HK) TECHNOLOGY LIMITED
Unit No. 1, 12/F., Perfect Industrial Building ,
Kowloon, Hong Kong 999077
HK

BC-4D-FB (hex) Hitron Technologies. Inc
BC4DFB (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

2C-33-7A (hex) Hon Hai Precision Ind. Co.,Ltd.
2C337A (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

84-DD-B7 (hex) Cilag GmbH International
84DDB7 (base 16) Cilag GmbH International
Gubelstrasse 34
Zug _ CH-6300
CH

70-76-FF (hex) KERLINK
7076FF (base 16) KERLINK
1 rue Jacqueline AURIOL
THORIGNE FOUILLARD 35235
FR

14-36-C6 (hex) Lenovo Mobile Communication Technology Ltd.
1436C6 (base 16) Lenovo Mobile Communication Technology Ltd.
No.999, Qishan North
2nd Road, Information & Optoelectronics Park,
Xiamen Fujian 361006

08-EF-AB (hex) SAYME WIRELESS SENSOR NETWORK
08EFAB (base 16) SAYME WIRELESS SENSOR NETWORK
Calle Albert Einstein 18, 4a
Santander Cantabria 39011
ES

78-FC-14 (hex) Family Zone Cyber Safety Ltd
78FC14 (base 16) Family Zone Cyber Safety Ltd
175 Heytesbury Rd
Subiaco WA 6008
AU

38-09-A4 (hex) Firefly Integrations
3809A4 (base 16) Firefly Integrations
1013 Elroy Dr
Middlebury IN 46540
US

44-35-6F (hex) Neterix Ltd
44356F (base 16) Neterix Ltd
Viscount House, River Lane
Chester Cheshire CH4 8RH
GB

74-E2-77 (hex) Vizmonet Pte Ltd
74E277 (base 16) Vizmonet Pte Ltd
32,Canberra drive,#05-28
76431
SG

14-89-3E (hex) VIXTEL TECHNOLOGIES LIMTED
14893E (base 16) VIXTEL TECHNOLOGIES LIMTED
ROOM 1409, 14/F, BLOCK B, KAILEY CENTER
CHAI WAN
HK

FC-AF-AC (hex) Socionext Inc.
FCAFAC
(base 16) Socionext Inc.
19 Nishikujo-Kasuga-cho
Minaki-ku Kyoto 601-8413
JP

38-2C-4A (hex) ASUSTek COMPUTER INC.
382C4A (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

CC-BD-D3 (hex) Ultimaker B.V.
CCBDD3 (base 16) Ultimaker B.V.
Burgemeester Rozeveld van de Venlaan 11
Geldermalsen Gelderland 4191 PL
NL

8C-E7-8C (hex) DK Networks
8CE78C (base 16) DK Networks
20F-3, No.689, Zhong-Zheng Road, Zhong-He Dist.
New Taipei City Taiwan 235

TW

54-51-46 (hex) AMG Systems Ltd.
545146 (base 16) AMG Systems Ltd.
3 The Omega Centre
Biggleswade Bedfordshire SG18 8QB
GB

84-63-D6 (hex) Microsoft Corporation
8463D6 (base 16) Microsoft Corporation
1 Microsoft Way
Redmond Washington 98052
FI

BC-54-F9 (hex) Drogoo Technology Co., Ltd.
BC54F9 (base 16) Drogoo Technology Co., Ltd.
Shenzhen Dayun software town 17 2
floor
Shenzhen Guangdong 518172
CN

EC-13-B2 (hex) Netonix
EC13B2 (base 16) Netonix
6 East Main St
Leola PA 17540
US

10-4E-07 (hex) Shanghai Genvision Industries Co.,Ltd
104E07 (base 16) Shanghai Genvision Industries Co.,Ltd
2/F Building E,NO.55,Luo Jin Road,MinHang District,Shanghai
Shanghai Shanghai 200237
CN

5C-AA-FD (hex) Sonos, Inc.
5CAAFD (base 16) Sonos, Inc.
614 Chapala St
Santa Barbara CA 93101
US

F0-3D-29 (hex) Actility
F03D29 (base 16) Actility
110 rue des Poissonniers
Paris Paris 75018
FR

68-F7-28 (hex) LCFC(HeFei) Electronics Technology co., ltd
68F728 (base 16) LCFC(HeFei) Electronics Technology co., ltd
YunGu Road 3188-1

Hefei Anhui 230000
CN

30-73-50 (hex) Inpeco SA
307350 (base 16) Inpeco SA
Via San Gottardo 10
Lugano Ticino 6900
CH

04-9B-9C (hex) Eadingcore Intelligent Technology Co., Ltd.
049B9C (base 16) Eadingcore
Intelligent Technology Co., Ltd.
No. 169 Lijia city C District comprehensive 3 layer C3-10 mallFive-One road
Fuzhou Fujian 350000
CN

84-26-90 (hex) BEIJING THOUGHT SCIENCE CO.,LTD.
842690 (base 16) BEIJING THOUGHT SCIENCE CO.,LTD.
1-1102,International Business Park,No.1 ShangDi Xinxi Rd,Haidian District,Beijing
beijing beijing 100085
CN

80-19-67 (hex) Shanghai Reallytek Information Technology Co.,Ltd
801967 (base 16) Shanghai Reallytek Information Technology Co.,Ltd
906 Room,No.1 Building,No.3000 Longdong Avenue
Shanghai 201203
CN

2C-F7-F1 (hex) Seeed Technology Inc.
2CF7F1 (base 16) Seeed Technology Inc.
5th Floor, 8th Building, Shiling industrial Park, XiLi Town, NanShan dist. Shenzhen
ShenZhen GuangDong 518055
CN

DC-EC-06 (hex) Heimi Network Technology Co., Ltd.
DCEC06 (base 16) Heimi Network Technology Co., Ltd.
Room 12B12, Block A2, Long-Term World Building,
Beijing Beijing
100080
CN

3C-1E-13 (hex) HANGZHOU SUNRISE TECHNOLOGY CO., LTD
3C1E13 (base 16) HANGZHOU SUNRISE TECHNOLOGY CO., LTD
No.9, LongTan Road, CangQian Town, YuHang District, Hangzhou, China
HangZhou ZheJiang 311121
CN

08-11-5E (hex) Bitel Co., Ltd.

08115E (base 16) Bitel Co., Ltd.
9F Yohyun B/D, 242-29, Nonhyun-dong
Seoul Gangnam-gu 135830
KR

08-81-BC (hex) HongKong Ipro Technology Co., Limited
0881BC (base 16) HongKong Ipro Technology Co., Limited
Flat/Rm A3 9/F Silvercorp Int Tower
HONGKONG 999077
HK

C0-98-79 (hex) Acer Inc.
C09879 (base 16) Acer Inc.
8F, 88, Sec.1, Xintai 5th Rd.
New Taipei City N/A 221
TW

CC-3F-1D (hex) HMS Industrial Networks SLU
CC3F1D (base 16) HMS Industrial Networks SLU
Milà i Fontanals 7
Igualada Barcelona 08700
ES

DC-DA-4F (hex) GETCK TECHNOLOGY, INC
DCDA4F (base 16) GETCK TECHNOLOGY, INC
Room 508, NO .48 ZhengYi road
SHANGHAI
200082
CN

34-28-F0 (hex) ATN International Limited
3428F0 (base 16) ATN International Limited
4210, Office Tower, Convention Plaza
Hong Kong Hong Kong 00000
HK

CC-10-A3 (hex) Beijing Nan Bao Technology Co., Ltd.
CC10A3 (base 16) Beijing Nan Bao Technology Co., Ltd.
Room 8476Floor 8,Building 3
Shijingshan District Beijing 100041
CN

14-ED-E4 (hex) Kaiam Corporation
14EDE4 (base 16) Kaiam Corporation
39677 Eureka Drive
Newark California 94560
US

60-36-96 (hex) The Sapling Company
603696 (base 16) The Sapling Company
1633 Republic Rd
Huntingdon Valley PA 19006
US

54-FF-CF (hex) Mopria Alliance
54FFCF (base 16) Mopria Alliance
2400 Camino Ramon, Ste #375
San Ramon CA 94583
US

AC-B7-4F (hex) METEL s.r.o.
ACB74F (base 16) METEL s.r.o.
Zizkuv Kopec 617
Ceska Skalice NA 55203
CZ

B8-4F-D5 (hex) Microsoft Corporation
B84FD5 (base 16) Microsoft
Corporation
1 Microsoft Way
Redmond Washington 98052
FI

D8-4A-87 (hex) OI ELECTRIC CO.,LTD
D84A87 (base 16) OI ELECTRIC CO.,LTD
7-3-16 KIKUNA
YOKOHAMA KANAGAWA-KEN 222-0011
JP

D0-12-42 (hex) BIOS Corporation
D01242 (base 16) BIOS Corporation
2-43-15 Tomigaya
Shibuya-ku TOKYO 151-0063
JP

50-14-B5 (hex) Richfit Information Technology Co., Ltd
5014B5 (base 16) Richfit Information Technology Co., Ltd
Room 1501, Gehua Tower, Suite N0.1, Qinglong lane, Dongcheng District
Beijing Beijing 100007
CN

88-70-8C (hex) Lenovo Mobile Communication Technology Ltd.
88708C (base 16) Lenovo Mobile Communication Technology Ltd.
No.999, Qishan North 2nd Road, Information & Optoelectronics Park,
Xiamen Fujian 361006

CC-F5-38 (hex) 3isysnetworks
CCF538 (base 16) 3isysnetworks
11F-2 No1247 , Jung Jeng RD ,
Taipei Taiwan 0000
TW

B8-BD-79 (hex) TrendPoint Systems
B8BD79
(base 16) TrendPoint Systems
1595 East 6th Street
Corona CA 92879
US

10-12-18 (hex) Korins Inc.
101218 (base 16) Korins Inc.
Rm. 608, Suntechcity Bldg.
Seongnam Gyeonggi 462-725
KR

74-F4-13 (hex) Maxwell Forest
74F413 (base 16) Maxwell Forest
Level 2, 51 Murray Street
Pyrmont NSW 2009
AU

A0-06-27 (hex) NEXPA System
A00627 (base 16) NEXPA System
#105, YBS bldg,227-1 Yongdap-Dong
Seoul ASI/KR/KS013/SEOUL
KR

30-33-35 (hex) Boosty
303335 (base 16) Boosty
40 Princes Street
Ipswich Suffolk IP11RJ
GB

5C-B8-CB (hex) Allis Communications
5CB8CB (base 16) Allis Communications
10F.-3,No.31-1, Lane 169 Kangning St.,
New Taipei City New Taipei City 221
TW

F4-F2-6D (hex) TP-LINK TECHNOLOGIES CO.,LTD.
F4F26D (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen

Guangdong 518057
CN

40-4E-EB (hex) Higher Way Electronic Co., Ltd.
404EEB (base 16) Higher Way Electronic Co., Ltd.
No.15 Jingke E. Rd., Nantun District
Taichung 408
TW

C4-56-FE (hex) Lava International Ltd.
C456FE (base 16) Lava International Ltd.
Room 705, Block A, HengYue Building
Shanghai 518054
CN

C0-EE-FB (hex) OnePlus Tech (Shenzhen) Ltd
C0EEFB (base 16) OnePlus Tech (Shenzhen) Ltd
18F Tairan Building C, Tairan 8th Road Chegongmiao, Futian
Shenzhen Guangdong 518040
CN

34-F0-CA (hex) Shenzhen Linghangyuan Digital Technology Co.,Ltd.
34F0CA (base 16) Shenzhen Linghangyuan Digital Technology Co.,Ltd.
Building R, Linghangyuan Industrial Park, No. 163 Banxuegang Road, Longgang Distrial, Shenzhen, China
Shenzhen Guangdong 518129
CN

BC-9C-C5 (hex) Beijing Huafei Technology Co., Ltd.
BC9CC5 (base 16) Beijing Huafei Technology Co., Ltd.
2 floor, Research building, Guanghua
Pioneer Park, No.18, Anningzhuang East Rd, Haidian District, Beijing, China.
Beijing Beijing 100085
CN

30-42-25 (hex) BURG-WÄCHTER KG
304225 (base 16) BURG-WÄCHTER KG
Altenhofer Weg 15
Wetter NRW 58300
DE

FC-DB-B3 (hex) Murata Manufacturing Co., Ltd.
FCDBB3 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

8C-BF-9D (hex) Shanghai Xinyou Information Technology Ltd. Co.
8CBF9D (base 16) Shanghai Xinyou Information Technology Ltd. Co.

905418 Guiqing Road, Xuhui District,
Shanghai Shanghai 200233
CN

70-72-0D (hex) Lenovo Mobile Communication Technology Ltd.
70720D (base 16) Lenovo Mobile Communication Technology Ltd.
No.999, Qishan North 2nd Road, Information & Optoelectronics Park, Torch Hi-tech Industry Development Zone, Xiamen, P.R.China
Xiamen Fujian 361000
CN

3C-CD-5A (hex) Technische Alternative GmbH
3CCD5A (base 16) Technische
Alternative GmbH
Langestr. 124
Amaliendorf Lower Austria A-3872
AT

7C-E5-24 (hex) Quirky, Inc.
7CE524 (base 16) Quirky, Inc.
606 W 28th Street
New York NY 10001
US

48-D8-55 (hex) Telvent
48D855 (base 16) Telvent
P.I. Alcobendas c/ Valgrande. 6
Alcobendas Madrid 28108
ES

08-F7-28 (hex) GLOBO Multimedia Sp. z o.o. Sp.k.
08F728 (base 16) GLOBO Multimedia Sp. z o.o. Sp.k.
Gryfinska 104
Szczecin Zachodniopomorskie 70-772
PL

50-67-87 (hex) Planet Networks
506787 (base 16) Planet Networks
1 Ivy Crest Ln
Rockaway NJ 07866
US

F4-D2-61 (hex) SEMOCON Co., Ltd
F4D261 (base 16) SEMOCON Co., Ltd
B-19F, Gunpo IT Valley, Dangjeong-dong, 17, Gosan-ro 148beon-gil,
Gunpo-si Gyeonggi-do 435-833
KR

9C-AD-97 (hex) Hon Hai Precision Ind. Co.,Ltd.
9CAD97 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

88-29-50
(hex) Netmoon Technology Co., Ltd
882950 (base 16) Netmoon Technology Co., Ltd
2nd Floor, Building No.1, NO.319, Qingpi Avenue
Wenjiang District Chengdu 611130
CN

44-74-6C (hex) Sony Corporation
44746C (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

4C-9E-FF (hex) Zyxel Communications Corporation
4C9EFF (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

94-D6-0E (hex) shenzhen yunmao information technologies co., ltd
94D60E (base 16) shenzhen yunmao information technologies co., ltd
H4-3A, Twelve Oaks Manor, bulong road
shenzhen guanggong 518127
CN

20-6E-9C (hex) Samsung Electronics Co.,Ltd
206E9C (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

6C-2F-2C (hex) Samsung Electronics Co.,Ltd
6C2F2C (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi
Gyeongbuk 730-350
KR

B0-09-D3 (hex) Avizia
B009D3 (base 16) Avizia
12018 Sunrise Valley Drive
Reston VA 20191

US

CC-A0-E5 (hex) DZG Metering GmbH
CCA0E5 (base 16) DZG Metering GmbH
Heidelberger Str. 32
Oranienburg Brandenburg 16515
DE

60-81-2B (hex) Astronics Custom Control Concepts
60812B (base 16) Astronics Custom Control Concepts
6020 S 190th ST
Kent 98032
US

F8-66-01 (hex) Suzhou Chi-tek information technology Co., Ltd
F86601 (base 16) Suzhou Chi-tek information technology Co., Ltd
Rm204C204D, Building A7,
SuZhou Jiangsu 215123
CN

60-C1-CB (hex) Fujian Great Power PLC Equipment Co.,Ltd
60C1CB (base 16) Fujian Great Power PLC Equipment Co.,Ltd
6/F.Bld.34.Zone C.Software Park
Fuzhou Fujian,China 350003
CN

BC-25-F0 (hex) 3D Display Technologies Co., Ltd.
BC25F0 (base 16) 3D Display Technologies Co., Ltd.
4F., No.542-17, Zhongzheng Rd
New
Taipei City 242
TW

C0-3D-46 (hex) Shanghai Sango Network Technology Co.,Ltd
C03D46 (base 16) Shanghai Sango Network Technology Co.,Ltd
No 666 Zhangheng Road
Pudong Shanghai 210203
CN

64-EA-C5 (hex) SiboTech Automation Co., Ltd.
64EAC5 (base 16) SiboTech Automation Co., Ltd.
5th Floor, Bld 3
Shanghai Shanghai 201612
CN

74-DA-38 (hex) Edimax Technology Co. Ltd.
74DA38 (base 16) Edimax Technology Co. Ltd.
No. 278, Xinhu 1st Road

Taipei City Neihu Dist 248
TW

B0-25-AA (hex) Private
B025AA (base 16) Private

D4-B4-3E (hex) Messcomp Datentechnik GmbH
D4B43E (base 16) Messcomp Datentechnik GmbH
Neudecker Str. 11
Wasserburg Bayern 83512
DE

48-D1-8E (hex) Metis Communication Co.,Ltd
48D18E (base 16) Metis Communication Co.,Ltd
#102-805 Digital Empire2
Suwon-Si GyeongGi-Do 443-734
KR

30-F7-D7 (hex) Thread Technology Co., Ltd
30F7D7 (base 16) Thread Technology
Co., Ltd
4F, A Block, CYG, No.2,Mid GaoXin
Shenzhen GuangDong 518055
CN

18-22-7E (hex) Samsung Electronics Co.,Ltd
18227E (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

30-C7-AE (hex) Samsung Electronics Co.,Ltd
30C7AE (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

44-D4-E0 (hex) Sony Corporation
44D4E0 (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

E4-F4-C6 (hex) NETGEAR
E4F4C6 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

9C-FB-F1 (hex) MESOMATIC GmbH & Co.KG
9CFBF1 (base 16) MESOMATIC GmbH & Co.KG
Siemensstr. 36
Kernen i.R. 71394
DE

10-27-BE (hex) TVIP
1027BE (base 16) TVIP
190000 ul. Decabristov, h.6 , of.10-
Saint-Petersburg 197227
RU

20-87-AC (hex) AES motomation
2087AC (base 16) AES motomation
48501
Warm Springs Blvd.
Fremont CA 94539
US

94-51-BF (hex) Hyundai ESG
9451BF (base 16) Hyundai ESG
Gangnam-gu
Seoul KOREA, REPUBLIC OF 135-845
KR

F0-15-A0 (hex) KyungDong One Co., Ltd.
F015A0 (base 16) KyungDong One Co., Ltd.
205-38, Gasan digital 1-ro,
Seoul 153-803
KR

6C-2C-06 (hex) OOO NPP Systemotechnika-NN
6C2C06 (base 16) OOO NPP Systemotechnika-NN
Nartova lane, 2v
Nizhny Novgorod Nizhegorodskaya oblast 603057
RU

C4-91-3A (hex) Shenzhen Sanland Electronic Co., ltd.
C4913A (base 16) Shenzhen Sanland Electronic Co., ltd.
3 floor,Block D, Glory Technology Industrial Park,
ShenZhen Guangdong 518116
CN

1C-1C-FD (hex) Dalian Hi-Think Computer Technology, Corp
1C1CFD (base 16) Dalian Hi-Think Computer Technology, Corp
Hi-Think Software Building,No.6 Hi-Tech Street, Qixianling Industrial Base, Hi-Tech Zone, Dalian, China
Dalian LiaoNing 116023

CN

70-62-B8 (hex) D-Link
International
7062B8 (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

70-93-83 (hex) Intelligent Optical Network High Tech CO.,LTD.
709383 (base 16) Intelligent Optical Network High Tech CO.,LTD.
Room 205,Building 11,Jia
Changping District Beijing 102200
CN

AC-A9-19 (hex) TrekStor GmbH
ACA919 (base 16) TrekStor GmbH
Kastanienallee 8-10
Lorsch Hessen 64653
DE

90-AE-1B (hex) TP-LINK TECHNOLOGIES CO.,LTD.
90AE1B (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

60-E3-27 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
60E327 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

80-D4-33 (hex) LzLabs
GmbH
80D433 (base 16) LzLabs GmbH
Alte Winterthurerstrasse 14B
Wallisellen Zurich 8304
CH

94-C0-14 (hex) Sorter Sp. j. Konrad Grzeszczyk MichaA, Ziomek
94C014 (base 16) Sorter Sp. j. Konrad Grzeszczyk MichaA, Ziomek
ul. Gdynska 32
PL9482565081 Mazowieckie 26-600
PL

14-56-45 (hex) Savitech Corp.
145645 (base 16) Savitech Corp.

3F, No.309, Guangming 1st Rd.,
Zhubei Hsinchu 30259
TW

90-98-64 (hex) Impex-Sat GmbH&Co KG
909864 (base 16) Impex-Sat GmbH&Co KG
Beim Giesshaus 7
Glueckstadt 25348
DE

DC-E5-78 (hex) Experimental Factory of Scientific Engineering and Special Design Department
DCE578 (base 16) Experimental Factory of Scientific Engineering and Special Design Department
9, Academician Semenov prospect
Chernogolovka Moscow region 142432
RU

38-F0-98 (hex) Vapor Stone Rail Systems
38F098 (base 16) Vapor Stone Rail Systems
10000 Cavendish
Saint-Laurent
Quebec H4M2V1
CA

64-E8-92 (hex) Morio Denki Co., Ltd.
64E892 (base 16) Morio Denki Co., Ltd.
2, Nadooka
Ryugasaki Ibaraki 301-0845
JP

C4-4E-1F (hex) BlueN
C44E1F (base 16) BlueN
121-122 3F
Daegu Korea 700-809
KR

B0-86-9E (hex) Chloride S.r.L
B0869E (base 16) Chloride S.r.L
Via Fornace ,30
CastelGuelfo (Bologna) Italy 40023
IT

D0-57-A1 (hex) Werma Signaltechnik GmbH & Co. KG
D057A1 (base 16) Werma Signaltechnik GmbH & Co. KG
Duerbheimer Strasse
Rietheim-Weilheim 78604
DE

B4-B5-42 (hex) Hubbell Power Systems, Inc.

B4B542 (base 16) Hubbell Power Systems, Inc.
8100 Churchill Ave
Leeds AL 35094
US

54-CD-EE (hex) ShenZhen Apexis Electronic Co.,Ltd
54CDEE (base 16) ShenZhen Apexis Electronic Co.,Ltd
12th floor,Keji BuildiHigng
ShenZhen GuangDong 518057
CN

E8-FC-60 (hex) ELCOM Innovations Private Limited
E8FC60 (base 16) ELCOM Innovations
Private Limited
9TH FLOOR, MERIDIEN COMMERCIAL TOWER
New Delhi 110001
US

88-E8-F8 (hex) YONG TAI ELECTRONIC (DONGGUAN) LTD.
88E8F8 (base 16) YONG TAI ELECTRONIC (DONGGUAN) LTD.
Yuan Shan Bei Managed Region
Dong Guan Guang Dong 523583
CN

C4-C9-19 (hex) Energy Imports Ltd
C4C919 (base 16) Energy Imports Ltd
306a Broadway Ave
Palmerston North Manawatu 4414
NZ

D8-DD-5F (hex) BALMUDA Inc.
D8DD5F (base 16) BALMUDA Inc.
5-1-21 Kyonancho
Musashino Tokyo 180-0023
JP

D8-61-94 (hex) Objetivos y Sevicios de Valor Anadido
D86194 (base 16) Objetivos y Sevicios de Valor Anadido
Calle Monte Esquinza 28, 1ºD
Madrid 28010
ES

C8-D4-29 (hex) Muehlbauer AG
C8D429 (base 16) Muehlbauer AG
Josef-Muhlbauer-Platz 1
Roding Bavaria 93426
DE

D8-65-95 (hex) Toy's Myth Inc.
D86595 (base 16) Toy's Myth Inc.
304, Yongsan-gu Changup-Jiwon center
Seoul 140-240
KR

C0-F7-9D
(hex) Powercode
C0F79D (base 16) Powercode
300 Industrial Dr
Random Lake Wisconsin 53075
US

1C-AB-01 (hex) Innovolt
1CAB01 (base 16) Innovolt
14 Piedmont Center
Atlanta GA 30305
US

B0-DA-00 (hex) CERA ELECTRONIQUE
B0DA00 (base 16) CERA ELECTRONIQUE
PARC D'ACTIVITES
VAL DE REUIL HAUTE NORMANDIE 27100
FR

D8-B6-D6 (hex) Blu Tether Limited
D8B6D6 (base 16) Blu Tether Limited
7600 Leesburg Pike
Falls Church VA 22043
US

58-9C-FC (hex) FreeBSD Foundation
589CFC (base 16) FreeBSD Foundation
P.O. Box 20247
Boulder CO 80308-3247
US

70-2C-1F (hex) Wisol
702C1F (base 16) Wisol
377-3, Gajang-dong, Osan-si
447-210
KR

F0-8A-28 (hex) JIANGSU HENGSION ELECTRONIC S and T CO.,LTD
F08A28 (base 16) JIANGSU HENGSION ELECTRONIC S and T CO.,LTD
4F,Building 3
ChangZhou Jiangsu 213125
CN

28-BB-59 (hex) RNET Technologies, Inc.
28BB59
(base 16) RNET Technologies, Inc.
240. W. Elmwood Dr.
Dayton OHIO 45459-4248
US

E8-EA-6A (hex) StarTech.com
E8EA6A (base 16) StarTech.com
45 Artisans Cres
London Ontario N5V5E9
CA

04-DB-8A (hex) Suntech International Ltd.
04DB8A (base 16) Suntech International Ltd.
Room 605, IT Mirae Tower
Seoul 153-760
KR

90-DF-B7 (hex) s.m.s smart microwave sensors GmbH
90DFB7 (base 16) s.m.s smart microwave sensors GmbH
In den Waashainen 1
Braunschweig NI 38108
DE

08-57-00 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
085700 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

24-A8-7D (hex) Panasonic Automotive Systems Asia Pacific(Thailand)Co.,Ltd.
24A87D (base 16) Panasonic Automotive Systems Asia Pacific(Thailand)Co.,Ltd.
101 Moo 2 Teparak Road ,
Bangsaothong
Samutprakarn 10540
TH

F8-5C-45 (hex) IC Nexus Co. Ltd.
F85C45 (base 16) IC Nexus Co. Ltd.
6F-1, No.3-2 Park Street
Taipei 115
TW

AC-E0-69 (hex) ISAAC Instruments
ACE069 (base 16) ISAAC Instruments
240 Frechette

Chambly Quebec J3L2Z5
CA

30-B5-C2 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
30B5C2 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

E0-7F-53 (hex) TECHBOARD SRL
E07F53 (base 16) TECHBOARD SRL
Via Della Scienza, 50
Modena 41122
IT

48-FE-EA (hex) HOMA B.V.
48FEEA (base 16) HOMA B.V.
P.O. Box 545
Enschede 7500 AM
NL

74-6F-3D (hex) Contec GmbH
746F3D (base 16) Contec GmbH
Oberahrer Straße 9
Sainerholz RP 56244
DE

E8-61-83 (hex) Black Diamond Advanced Technology, LLC
E86183 (base 16) Black Diamond Advanced Technology,
LLC
7450 S. Priest Drive
Tempe AZ 85283
US

38-C9-A9 (hex) SMART High Reliability Solutions, Inc.
38C9A9 (base 16) SMART High Reliability Solutions, Inc.
1325 N Fiesta Blvd., #101
Gilbert AZ 85233
US

8C-DE-99 (hex) Comlab Inc.
8CDE99 (base 16) Comlab Inc.
2300 Leon-Harmel, suite 220
Quebec Quebec G1N 4L2
CA

4C-E1-BB (hex) Zhuhai HiFocus Technology Co., Ltd.
4CE1BB (base 16) Zhuhai HiFocus Technology Co., Ltd.

The second floor of the friend industrial park,
zhuhai guangdong 519080
US

24-26-42 (hex) SHARP Corporation.
242642 (base 16) SHARP Corporation.
22-22,Abeno-ku
Osaka-City Osaka-Prefecture 545-8522
JP

34-DE-34 (hex) zte corporation
34DE34 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

FC-16-07 (hex) Taian Technology(Wuxi) Co.,Ltd.
FC1607 (base 16) Taian Technology(Wuxi) Co.,Ltd.
Gaolang
East Road No.29
Wuxi Jiangsu 214000
CN

AC-02-CA (hex) HI Solutions, Inc.
AC02CA (base 16) HI Solutions, Inc.
4105 Royal Drive
Kennesaw GA 30144
US

8C-56-9D (hex) Imaging Solutions Group
8C569D (base 16) Imaging Solutions Group
1387 Fairport Rd
Fairport NY 14450
US

40-B6-B1 (hex) SUNGSAM CO,.Ltd
40B6B1 (base 16) SUNGSAM CO,.Ltd
SUNGSAM Bldg, 7-1, BAnga-ro 23beon-gil, Bundang-gu
Seongnam-si Gyeonggi-do 463-829
KR

DC-05-2F (hex) National Products Inc.
DC052F (base 16) National Products Inc.
8410 Dallas Ave S.
Seattle WA 98108
US

00-8B-43 (hex) RFTECH

008B43 (base 16) RFTECH
Cheoin-gu
Yongin Gyeonggi 449-871
KR

8C-41-F2 (hex) RDA Technologies Ltd.
8C41F2 (base 16) RDA Technologies Ltd.
Suite 2203, CC Wu Building,
WanChai Hong Kong 00000
HK

E0-36-E3 (hex) Stage One International Co., Ltd.
E036E3 (base 16) Stage One International
Co., Ltd.
Fl. 5., No. 10., Lane 321, Yangguang St.,
Taipei City 11491
TW

4C-0D-EE (hex) JABIL CIRCUIT (SHANGHAI) LTD.
4C0DEE (base 16) JABIL CIRCUIT (SHANGHAI) LTD.
FL5-UNIT A2 NO 1528 GUMEI ROAD
SHANGHAI 200233
CN

D0-63-4D (hex) Meiko Maschinenbau GmbH & Co. KG
D0634D (base 16) Meiko Maschinenbau GmbH & Co. KG
Englerstraße 3
Offenburg 77652
DE

D0-BD-01 (hex) DS International
D0BD01 (base 16) DS International
806ho, ACE HITECH21 B/D
Busan Busan 612-020
KR

FC-27-A2 (hex) TRANS ELECTRIC CO., LTD.
FC27A2 (base 16) TRANS ELECTRIC CO., LTD.
771,Sec.2 Chungsan Rd,Huatang
Changhua Taiwan 503
TW

FC-BB-A1 (hex) Shenzhen Minicreate Technology Co.,Ltd
FCBBA1 (base 16) Shenzhen Minicreate Technology Co.,Ltd
5/F.,5th,Building,Animation Park,Yuehai Road
Shenzhen Guangdong 518066
CN

B0-98-9F (hex) LG CNS
B0989F (base 16) LG CNS
53-94 Jinwisandan-ro,
Jinwuy-Myun
Pyungtaek-City Kyunggi-Do 451-862
KR

EC-71-DB (hex) Reolink Innovation Limited
EC71DB (base 16) Reolink Innovation Limited
705,7/F,FA YUEN COMMERCIAL BUILDING,75-77 FA YUEN STREET
MONG KOK KL 999077
CN

A4-09-CB (hex) Alfred Kaercher GmbH & Co KG
A409CB (base 16) Alfred Kaercher GmbH & Co KG
Alfred Kaercher Gmbh & Co KG
Winnenden Baden-Wuerttemberg 71364
DE

10-33-78 (hex) FLECTRON Co., LTD
103378 (base 16) FLECTRON Co., LTD
A-625, Sigma2, Tancheonsang-ro 164
Seongnam-si Gyeonggi-do 463-741
KR

F0-D3-A7 (hex) CobaltRay Co., Ltd
F0D3A7 (base 16) CobaltRay Co., Ltd
Room 409,Humanteco Building,#281-16
Seoul 133120
KR

38-A5-3C (hex) COMECER Netherlands
38A53C (base 16) COMECER Netherlands
Madame Curieweg 1
Joure Friesland 8500 AC
NL

5C-FF-FF (hex) Shenzhen Kezhonglong Optoelectronic Technology Co., Ltd
5CFFFF (base 16) Shenzhen Kezhonglong
Optoelectronic Technology Co., Ltd
3/F, B5 Building, Xinfu Industrial Park, Heping Village
Shenzhen, Guangdong 518101
US

84-FE-9E (hex) RTC Industries, Inc.
84FE9E (base 16) RTC Industries, Inc.
2800 Golf Road
Rolling Meadows IL 60008

US

FC-4B-1C (hex) INTERSENSOR S.R.L.
FC4B1C (base 16) INTERSENSOR S.R.L.
101 Bd. Iuliu Maniu str., Bl. A2, Sc. 2, #47
Bucharest 061094
RO

40-30-67 (hex) Conlog (Pty) Ltd
403067 (base 16) Conlog (Pty) Ltd
270 Felix Dlamini Road
Durban Kwa-zulu Natal 4000
ZA

C0-F1-C4 (hex) Pacidal Corporation Ltd.
C0F1C4 (base 16) Pacidal Corporation Ltd.
3F., No. 11, Aly 3, Ln. 123, Sec. 3 Ren'ai Rd.
Taipei City 106
TW

68-69-2E (hex) Zycoo Co.,Ltd
68692E (base 16) Zycoo Co.,Ltd
F7,B7,Tianfu Software park
Chengdu Sichuan 610000
CN

D4-68-67 (hex) Neoventus Design Group
D46867 (base 16) Neoventus Design Group
2350 Commonwealth
Dr, Suite E
Charlottesville VA 22901
US

2C-18-AE (hex) Trend Electronics Co., Ltd.
2C18AE (base 16) Trend Electronics Co., Ltd.
4F-3, No 17, Lane 77, Sec. 2
Taipei Taiwan 10446
TW

08-52-40 (hex) EbV Elektronikbau- und Vertriebs GmbH
085240 (base 16) EbV Elektronikbau- und Vertriebs GmbH
Heisterner Weg 8 - 12
Burbach Nordrhein-Westfalen 57299
DE

B8-C1-A2 (hex) Dragon Path Technologies Co., Limited
B8C1A2 (base 16) Dragon Path Technologies Co., Limited
12/F., San Toi Building,

Central Hong Kong
HK

80-F2-5E (hex) Kyynel
80F25E (base 16) Kyynel
Pirttikuja 3
Oulu 90450
FI

F8-1C-E5 (hex) Telefonbau Behnke GmbH
F81CE5 (base 16) Telefonbau Behnke GmbH
Robert-Jungk-Str. 3
Kirkel Saarland 66459
DE

14-ED-A5 (hex) Wachter GmbH Sicherheitssysteme
14EDA5 (base 16) Wachter GmbH Sicherheitssysteme
Alte Ricklinger Str. 3
Hannover Garbsen 30823
DE

60-03-47
(hex) Billion Electric Co. Ltd.
600347 (base 16) Billion Electric Co. Ltd.
8F., No.192, Sec. 2, Zhongxing Rd.,
New Taipei City, 231
TW

88-91-66 (hex) Viewcooper Corp.
889166 (base 16) Viewcooper Corp.
Room 1061, A,Seven Block, No.128 Huayuan Rd
SHANGHAI 200083
CN

50-1A-C5 (hex) Microsoft
501AC5 (base 16) Microsoft
1 Microsoft Way
Redmond Washington 98052
US

68-19-3F (hex) Digital Airways
68193F (base 16) Digital Airways
5, Place Jean SIARD
ARGENTAN NORMANDY 61200
FR

B4-75-0E (hex) Belkin International Inc.
B4750E (base 16) Belkin International Inc.

12045 East Waterfront Drive
Playa Vista Ca. 90094
US

94-10-3E (hex) Belkin International Inc.
94103E (base 16) Belkin International Inc.
12045 East Waterfront Drive
Playa Vista Ca. 90094
US

7C-B7-33 (hex) ASKEY COMPUTER CORP
7CB733 (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG
RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585
TW

A0-E5-E9 (hex) enimai Inc
A0E5E9 (base 16) enimai Inc
701 Villa St
Mountain View California 94041
US

9C-21-6A (hex) TP-LINK TECHNOLOGIES CO.,LTD.
9C216A (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

F8-62-AA (hex) xn systems
F862AA (base 16) xn systems
#917, Worldmerdian 2nd
Seoul 153759
KR

10-7B-EF (hex) Zyxel Communications Corporation
107BEF (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

B4-62-AD (hex) Elysia Germany GmbH
B462AD (base 16) Elysia Germany GmbH
Benzstr.4
Straubenhardt Baden-Wuerttemberg 75334
DE

34-5C-40 (hex) Cargt Holdings LLC

345C40 (base 16) Cargt Holdings LLC
8820 Hillside Dr
Lenexa KANSAS (KS) 66227
US

44-EE-30
(hex) Budelmann Elektronik GmbH
44EE30 (base 16) Budelmann Elektronik GmbH
Von-Renesse-Weg 60
Muenster North Rhine-Westphalia 48163
DE

FC-1E-16 (hex) IPEVO corp
FC1E16 (base 16) IPEVO corp
3F,No.53,Bo-ai Road,Taipei 100,Taiwan
Taipei 10044
TW

E8-F2-26 (hex) MILLSON CUSTOM SOLUTIONS INC.
E8F226 (base 16) MILLSON CUSTOM SOLUTIONS INC.
2036 COLUMBIA STREET
VANCOUVER BRITISH COLUMBIA V5Y 3E1
CA

3C-6E-63 (hex) Mitron OY
3C6E63 (base 16) Mitron OY
Yrittajankaari 19
FORSSA Kanta-Hame 30420
FI

A4-05-9E (hex) STA Infinity LLP
A4059E (base 16) STA Infinity LLP
WINNINGTON HOUSE
London N12 0DR
GB

30-51-F8 (hex) BYK-Gardner GmbH
3051F8 (base 16) BYK-Gardner GmbH
Lausitzer Strasse 8
Geretsried Bavarian 82538
DE

50-C0-06 (hex) Carmanah Signs
50C006 (base 16) Carmanah Signs
#5 6025 12 Street SE
Calgary Alberta T2H2K1
CA

04-CB-1D
(hex) Traka plc
04CB1D (base 16) Traka plc
30 Stilebrook Road
Bucks Buckinghamshire MK46 5EA
GB

A4-E9-A3 (hex) Honest Technology Co., Ltd
A4E9A3 (base 16) Honest Technology Co., Ltd
5F, KyungDong Bldg. 906-5,
Daejeon 305-330
KR

E8-D4-E0 (hex) Beijing BenyWave Technology Co., Ltd.
E8D4E0 (base 16) Beijing BenyWave Technology Co., Ltd.
No.55, Jiachuang Road, Taihu Town
Beijing 101111
CN

FC-01-9E (hex) VIEVU
FC019E (base 16) VIEVU
105 W. John St
Seattle WA 98119
US

64-21-84 (hex) Nippon Denki Kagaku Co.,LTD
642184 (base 16) Nippon Denki Kagaku Co.,LTD
Nishino Gotochou 18
Kyoto City Kyoto Pref 607-8356
JP

CC-4A-E1 (hex) fourtec -Fourier Technologies
CC4AE1 (base 16) fourtec -Fourier Technologies
16 Hamelacha St. POB 11681
Rosh Ha'ayin 48091
IL

24-64-EF (hex) CYG SUNRI CO.,LTD.
2464EF (base 16) CYG SUNRI CO.,LTD.
No. 3, Langshan 1st Road,
North Area of Hi-Tech Industrial Park
Shenzhen Guangdong 518057
CN

D8-27-0C (hex) MaxTronic International Co., Ltd.
D8270C (base 16) MaxTronic International Co., Ltd.
4F., No.529, Zhongzheng Rd., Xindian Dist.
New Taipei City Taiwan 231

TW

B4-CC-E9 (hex) PROSYST
B4CCE9 (base 16) PROSYST
2C Rue de l' EPINOY
TEMPLEMARS 59175
FR

A0-BF-50 (hex) S.C. ADD-PRODUCTION S.R.L.
A0BF50 (base 16) S.C. ADD-PRODUCTION S.R.L.
36, Dragomirna str.
Chisinau MD-2008
MD

AC-50-36 (hex) Pi-Coral Inc
AC5036 (base 16) Pi-Coral Inc
2130 Gold St
San Jose CA 95002-1177
US

C4-D6-55 (hex) Tercel technology co.,ltd
C4D655 (base 16) Tercel technology co.,ltd
Huafa South Road, Futian District,
SHENZHEN GUANGDONG 518000
CN

58-BD-F9 (hex) Sigrand
58BDF9 (base 16) Sigrand
UNIT 602 6/F, Causeway Bay Comm Bldg,
Hong Kong 999077
HK

C0-C6-87 (hex) Cisco SPVTG
C0C687
(base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

C4-93-80 (hex) Speedytel technology
C49380 (base 16) Speedytel technology
ROOM 1103,HANG SENG MONGKOK BUILDING,677 NATHAN ROAD,MONGKOK,KOWLOON
HONG KONG HONG KONG
HK

00-7D-FA (hex) Volkswagen Group of America
007DFA (base 16) Volkswagen Group of America
3800 Hamlin Rd

Auburn Hills MI 48326
US

E0-AE-B2 (hex) Bender GmbH & Co.KG
E0AEB2 (base 16) Bender GmbH & Co.KG
Londorfer Straße 65
Grünberg Hessen 35305
DE

F8-4A-7F (hex) Innometriks Inc
F84A7F (base 16) Innometriks Inc
3654 Ocean Ranch Blvd
Oceanside Ca 92056
US

0C-9B-13 (hex) Shanghai Magic Mobile Telecommunication Co.Ltd.
0C9B13 (base 16) Shanghai Magic Mobile Telecommunication Co.Ltd.
B7 parts, second floor
Waigaoqiao Free Trade Zone Shanghai 200131
CN

20-18-0E (hex) Shenzhen Sunchip Technology Co., Ltd
20180E (base
16) Shenzhen Sunchip Technology Co., Ltd
Room 818-831, Building B1, Mingyou Purchasing Center, Bao'an District, Shenzhen, China
Shenzhen Guangdong 518101
CN

80-B2-19 (hex) ELEKTRON TECHNOLOGY UK LIMITED
80B219 (base 16) ELEKTRON TECHNOLOGY UK LIMITED
BROERS BUILDING,
CAMBRIDGE CAMBS CB3 0FA
US

28-94-AF (hex) Samhwa Telecom
2894AF (base 16) Samhwa Telecom
293-7, Doksan-dong
Seoul Seoul 153-813
KR

74-A4-B5 (hex) Powerleader Science and Technology Co. Ltd.
74A4B5 (base 16) Powerleader Science and Technology Co. Ltd.
Powerleader Technology Park, #3 Guanyi Rd.
Shenzhen Guangdong 518110
CN

90-9F-43 (hex) Accutron Instruments Inc.
909F43 (base 16) Accutron Instruments Inc.

11 Mary Street
Sudbury Ontario P3C1B4
CA

2C-71-55 (hex) HiveMotion
2C7155 (base 16) HiveMotion
1806, STX-V Tower
Seoul 153-803
KR

50-76-91 (hex) Tekpea, Inc.
507691 (base 16) Tekpea,
Inc.
2225 East Bayshore Road
Palo Alto California 94303
US

94-BF-1E (hex) eflow Inc. / Smart Device Planning and Development Division
94BF1E (base 16) eflow Inc. / Smart Device Planning and Development Division
Ryoka-Yoyogi building 3F
Shibuya-Ku TOKYO 151-0051
JP

E8-51-6E (hex) TSMART Inc.
E8516E (base 16) TSMART Inc.
The-O-valley 306,
Anyang-si Gyeonggi-do 431-080
KR

AC-22-0B (hex) ASUSTek COMPUTER INC.
AC220B (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

B8-87-A8 (hex) Step Ahead Innovations Inc.
B887A8 (base 16) Step Ahead Innovations Inc.
20 Wintersport Ln.
Williston VT 05495
US

1C-86-AD (hex) MCT CO., LTD.
1C86AD (base 16) MCT CO., LTD.
C-815/816, Garden5 Works, 52 Chungmin-ro
Songpa-gu Seoul 138-961
KR

28-D9-3E (hex) Telecor Inc.

28D93E (base 16) Telecor Inc.
6205 Kestrel Road
Mississauga
Ontario L5T 2A1
CA

64-0B-4A (hex) Digital Telecom Technology Limited
640B4A (base 16) Digital Telecom Technology Limited
1708 Nan Fung Tower,
00852
US

8C-4B-59 (hex) 3D Imaging & Simulations Corp
8C4B59 (base 16) 3D Imaging & Simulations Corp
815, Timnip-Dong, Yuseong-Gu
Daejeon 305510
KR

88-35-4C (hex) Transics
88354C (base 16) Transics
p/a Ter Waarde 91
Ieper 8900
BE

70-F1-76 (hex) Data Modul AG
70F176 (base 16) Data Modul AG
Landsberger Str. 322
Munich Bavaria 80687
DE

5C-33-27 (hex) Spazio Italia srl
5C3327 (base 16) Spazio Italia srl
Via G.Galilei, 50
Padenghe sul Garda BS 25080
IT

E0-A1-98 (hex) NOJA Power Switchgear Pty Ltd
E0A198 (base 16) NOJA Power Switchgear Pty Ltd
16 Archimedes Place
Murarrie QLD 4172
AU

B8-47-C6 (hex) SanJet Technology Corp.
B847C6 (base 16) SanJet Technology Corp.
4F,No2,Li-Hsin Rd., 6,
Hsinchu
30078
TW

28-F5-32 (hex) ADD-Engineering BV
28F532 (base 16) ADD-Engineering BV
P.O. BOX 5893
ROTTERDAM ZH 3008 AW
NL

94-40-A2 (hex) Anywave Communication Technologies, Inc.
9440A2 (base 16) Anywave Communication Technologies, Inc.
300 Knightsbridge Parkway, Suite 150
Lincolnshire IL 60069
US

38-42-33 (hex) Wildeboer Bauteile GmbH
384233 (base 16) Wildeboer Bauteile GmbH
Marker Weg 11
Weener Niedersachsen 26826
US

C0-34-B4 (hex) Gigastone Corporation
C034B4 (base 16) Gigastone Corporation
12F.NO 480. Rueiguang Rd.
Taipei 11492
TW

E4-77-6B (hex) AARTESYS AG
E4776B (base 16) AARTESYS AG
Bahnhofplatz 7
Biel Bern CH-2501
CH

30-F3-1D (hex) zte corporation
30F31D (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

A0-EC-80 (hex) zte corporation
A0EC80 (base 16) zte corporation
12/F.,zte
R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

28-DB-81 (hex) Shanghai Guao Electronic Technology Co., Ltd
28DB81 (base 16) Shanghai Guao Electronic Technology Co., Ltd
No.6, Alley 1225 TongPu Road,
Shanghai 200333

CN

38-06-B4 (hex) A.D.C. GmbH
3806B4 (base 16) A.D.C. GmbH
Peter-Dornier-Str. 10
Lindau 88131
DE

B8-24-1A (hex) SWEDA INFORMATICA LTDA
B8241A (base 16) SWEDA INFORMATICA LTDA
RUA DONA BRIGIDA, 713
SAO PAULO SP 04111-081
BR

A0-B1-00 (hex) ShenZhen Cando Electronics Co.,Ltd
A0B100 (base 16) ShenZhen Cando Electronics Co.,Ltd
Building A, Dagang Industrial Zone, Changzhen Community
Shenzhen City Guangdong 518132
CN

20-1D-03 (hex) Elatec GmbH
201D03 (base 16) Elatec GmbH
Lilienthalstr. 3
Puchheim Bayern 82178
DE

C0-6C-6D (hex) MagneMotion, Inc.
C06C6D (base 16) MagneMotion, Inc.
139 Barnum Road
Devens
Massachusetts 01434
US

F8-35-DD (hex) Gemtek Technology Co., Ltd.
F835DD (base 16) Gemtek Technology Co., Ltd.
No. 1 Jen Ai Road Hsinchu Industrial Park Hukou, Hsinchu 30352 TAIWAN, REPUBLIC OF CHINA
Hsinchu TAIWAN 30352
TW

D8-B0-4C (hex) Jinan USR IOT Technology Co., Ltd.
D8B04C (base 16) Jinan USR IOT Technology Co., Ltd.
#1-523, Huizhan Guoji Cheng, Gaoxin Qu
JINAN SHANDONG 250101
CN

E8-51-9D (hex) Yeonhab Precision Co.,LTD
E8519D (base 16) Yeonhab Precision Co.,LTD
219-27, Haksusosa-Gil, Mokcheon-Eup

Cheonan Chungcheongnamdo 330-844
KR

1C-4A-F7 (hex) AMON INC
1C4AF7 (base 16) AMON INC
HANJUN BLDG 4/F, SHINGILDONG 110-4
SEOUL 150839
KR

0C-C8-1F (hex) Summer Infant, Inc.
0CC81F (base 16) Summer Infant, Inc.
1275 Park East Drive
Woonsocket Rhode Island 02895
US

A8-FB-70 (hex) WiseSec L.t.d
A8FB70 (base 16) WiseSec L.t.d
145 yaffo ST.
Haifa Israel
37503
IL

E4-81-B3 (hex) Shenzhen ACT Industrial Co.,Ltd.
E481B3 (base 16) Shenzhen ACT Industrial Co.,Ltd.
NO.5 B/D,BEISHAN INDUSTRIAL PARK,BEISHAN R/D,
Shenzhen Guangdong 518083
CN

CC-E8-AC (hex) SOYEA Technology Co.,Ltd.
CCE8AC (base 16) SOYEA Technology Co.,Ltd.
STB department,Floor 4,Building 11 south
hangzhou zhejiang 310007
CN

30-3E-AD (hex) Sonavox Canada Inc
303EAD (base 16) Sonavox Canada Inc
81 Zenway Blvd #25
Woodbridge Ontario L4S0S5
CA

CC-04-B4 (hex) Select Comfort
CC04B4 (base 16) Select Comfort
9800 59th Ave N
Minneapolis MN 55442
US

5C-15-E1 (hex) AIDC TECHNOLOGY (S) PTE LTD
5C15E1 (base 16) AIDC TECHNOLOGY (S) PTE LTD

NO.1 GOLDHILL PLAZA #03-21
SINGAPORE 308899
SG

B8-CD-93 (hex) Penetek, Inc
B8CD93 (base 16) Penetek, Inc
6F, No.18, Wuqun 7th Rd, Wugu Dist
New Taipei City 248
TW

DC-57-26 (hex) Power-One
DC5726 (base
16) Power-One
Via San Girgio 642
Terranuova Arezzo 52028
IT

F8-DA-DF (hex) EcoTech, Inc.
F8DADF (base 16) EcoTech, Inc.
999 Postal Road
Allentown PA 18109
US

30-AE-7B (hex) Deqing Dusun Electron CO., LTD
30AE7B (base 16) Deqing Dusun Electron CO., LTD
No. 640 FengQing Street, Deqing
Huzhou Zhejiang 313200
CN

68-EC-62 (hex) YODO Technology Corp. Ltd.
68EC62 (base 16) YODO Technology Corp. Ltd.
8F., No.168-1, Liancheng Rd
Taipei City 235
TW

1C-76-CA (hex) Terasic Technologies Inc.
1C76CA (base 16) Terasic Technologies Inc.
9F., No.176, Sec.2, Gongdao 5th Rd
Hsinchu City 30070
TW

B8-C8-55 (hex) Shanghai GBCOM Communication Technology Co.,Ltd.
B8C855 (base 16) Shanghai GBCOM Communication Technology Co.,Ltd.
Room 602, Building 6, No.
Shanghai 200241
CN

78-30-3B (hex) Stephen Technologies Co.,Limited

78303B (base 16) Stephen Technologies Co.,Limited
5/F,
Building NO.1, TongXin Industry Zone
Shenzhen Guangdong 518115
CN

40-BC-73 (hex) Cronoplast S.L.
40BC73 (base 16) Cronoplast S.L.
Pol.Ind.S.Ermengol II -
ABRERA BARCELONA 08630
ES

40-07-C0 (hex) Railtec Systems GmbH
4007C0 (base 16) Railtec Systems GmbH
Sonnenbergstr. 19
Hergiswil Nidwalden 6052
CH

84-E4-D9 (hex) Shenzhen NEED technology Ltd.
84E4D9 (base 16) Shenzhen NEED technology Ltd.
Room 581 ,Jinda technology center,No.8, Kefeng road,
Shenzhen Guangdong 518057
CN

78-4B-08 (hex) f.robotics acquisitions ltd
784B08 (base 16) f.robotics acquisitions ltd
Yevulim, Industrial Zone
Pardesia Hasharon 42815
IL

B0-80-8C (hex) Laser Light Engines
B0808C (base 16) Laser Light Engines
8C Industrial Way
Salem New Hamshire 03079
US

E8-80-D8 (hex) GNTEK Electronics Co.,Ltd.
E880D8 (base 16) GNTEK Electronics Co.,Ltd.
Suzhou Industrial Park
Suzhou
Jiangsu 215021
CN

D8-66-C6 (hex) Shenzhen Daystar Technology Co.,ltd
D866C6 (base 16) Shenzhen Daystar Technology Co.,ltd
The 5th Floor,#4 Building, Minxing Industria Zone
Shenzhen Guangdong 518131
CN

D0-0E-A4 (hex) Porsche Cars North America
D00EA4 (base 16) Porsche Cars North America
980 Hammond Drive
Atlanta GA 30328
US

18-88-57 (hex) Beijing Jinhong Xi-Dian Information Technology Corp.
188857 (base 16) Beijing Jinhong Xi-Dian Information Technology Corp.
4th -5th Floor, 1# Building NO.1 Zhonghe Road
Beijing 100070
CN

88-89-64 (hex) GSI Electronics Inc.
888964 (base 16) GSI Electronics Inc.
5200 Armand-Frappier
St-Hubert Quebec J3Z 1G5
CA

0C-11-05 (hex) AKUVOX (XIAMEN) NETWORKS CO., LTD
0C1105 (base 16) AKUVOX (XIAMEN) NETWORKS CO., LTD
Suite 201-15, 31 WangHai Rd
Xiamen Fujian 361008
CN

5C-22-C4 (hex) DAE EUN ELETRONICS CO., LTD
5C22C4 (base 16) DAE
EUN ELETRONICS CO., LTD
1029 Hokye-Dong, Dongan-Goo
Anyang-Shi Kyongki-Do 431-080
KR

6C-8B-2F (hex) zte corporation
6C8B2F (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

CC-1A-FA (hex) zte corporation
CC1AFA (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

8C-5A-F0 (hex) Exeltech Solar Products
8C5AF0 (base 16) Exeltech Solar Products
3001 Northern Cross Blvd #361
Fort Worth TX 76137

US

D8-DC-E9 (hex) Kunshan Erlab ductless filtration system Co.,Ltd
D8DCE9 (base 16) Kunshan Erlab ductless filtration system Co.,Ltd
NO.100 Liu Shi Jin Road
Kunshan Jiangsu 215300
CN

DC-D5-2A (hex) Sunny Heart Limited
DCD52A (base 16) Sunny Heart Limited
Rm. 1516, 15/F, Hewlett Center
Kwun Tong Kowloon 852
HK

6C-61-26 (hex) Rinicom Holdings
6C6126
(base 16) Rinicom Holdings
Riverway House
Lancaster Lancashire LA1 2RX
GB

A4-D3-B5 (hex) GLITEL Stropkov, s.r.o.
A4D3B5 (base 16) GLITEL Stropkov, s.r.o.
Cintorinska 557/73
Stropkov 09101
SK

70-82-0E (hex) as electronics GmbH
70820E (base 16) as electronics GmbH
Kantstraße 10
Großbettlingen Baden -Württemberg 72663
DE

44-61-9C (hex) FONsystem co. ltd.
44619C (base 16) FONsystem co. ltd.
3F annex of Venture support center
GwangJu 500-706
KR

88-68-5C (hex) Shenzhen ChuangDao & Perpetual Eternal Technology Co.,Ltd
88685C (base 16) Shenzhen ChuangDao & Perpetual Eternal Technology Co.,Ltd
Area c,2/F,Building 1, BaoAn foreign trade industrial zone
BaoAn District, Shenzhen Guangdong province 518100
CN

10-28-31 (hex) Morion Inc.
102831 (base 16) Morion Inc.
Shosse Kosmonavtov, 111

Perm Permsky Krai 614990
US

F4-99-AC (hex) WEBER Schraubautomaten GmbH
F499AC
(base 16) WEBER Schraubautomaten GmbH
Hans-Urmiller-Ring 56
Wolfratshausen Bayern 82515
DE

D4-3A-65 (hex) IGRS Engineering Lab Ltd.
D43A65 (base 16) IGRS Engineering Lab Ltd.
8F,Taipeng Mansion
Haidian District Beijing 10000
CN

7C-D8-44 (hex) Enmotus Inc
7CD844 (base 16) Enmotus Inc
65 Enterprise
Aliso Viejo CA 92656
US

B4-FE-8C (hex) Centro Sicurezza Italia SpA
B4FE8C (base 16) Centro Sicurezza Italia SpA
Via Venaria 28-30
Alpignano Torino 10091
IT

2C-F2-03 (hex) EMKO ELEKTRONIK SAN VE TIC AS
2CF203 (base 16) EMKO ELEKTRONIK SAN VE TIC AS
DOSAB, KARANFIL SOK, NO:6
BURSA 16369
TR

F8-FE-A8 (hex) Technico Japan Corporation
F8FEA8 (base 16) Technico Japan Corporation
AM Building 9F, 2-5-3,
Tokyo 160-0022
JP

18-00-DB (hex) Fitbit Inc.
1800DB (base 16) Fitbit Inc.
150 Spear St Ste 200
San Francisco CA 94105
US

78-A1-06 (hex) TP-LINK

TECHNOLOGIES CO.,LTD.
78A106 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

D0-50-99 (hex) ASRock Incorporation
D05099 (base 16) ASRock Incorporation
2F., No.37, Sec. 2, Jhongyang S. Rd.
Taipei 112
US

A4-9E-DB (hex) AutoCrib, Inc.
A49EDB (base 16) AutoCrib, Inc.
3011 S. Croddy Way
Santa Ana CA 92704
US

CC-0D-EC (hex) Cisco SPVTG
CC0DEC (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

40-E7-30 (hex) DEY Storage Systems, Inc.
40E730 (base 16) DEY Storage Systems, Inc.
215 South B Street
San Mateo CA 94401
US

68-B0-94 (hex) INESA ELECTRON CO.,LTD
68B094 (base 16) INESA ELECTRON CO.,LTD
5F, NO.168, Tianlin Road
Shanghai 200233
CN

D8-29-16 (hex) Ascent Communication Technology
D82916 (base 16) Ascent
Communication Technology
13/F., Shum Tower
Hong Kong 9999
HK

A0-73-FC (hex) Rancore Technologies Private Limited
A073FC (base 16) Rancore Technologies Private Limited
5th Floor, Court House
Dhobi Talao Maharashtra 400 002
IN

44-F8-49 (hex) Union Pacific Railroad
44F849 (base 16) Union Pacific Railroad
1400 Douglas St. STOP 0610
Omaha NE 68179
US

64-53-5D (hex) Frauscher Sensortechnik
64535D (base 16) Frauscher Sensortechnik
Gewerbestraße 1
St. Marienkirchen Upper Austria 4774
US

0C-72-2C (hex) TP-LINK TECHNOLOGIES CO.,LTD.
0C722C (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

48-BE-2D (hex) Symanitron
48BE2D (base 16) Symanitron
Ap.103, 17 Rudnevka str.,111674
Moscow
RU

F0-23-29 (hex) SHOWA DENKI CO.,LTD.
F02329 (base 16) SHOWA
DENKI CO.,LTD.
1-25
Daito-city Osaka 574-0052
JP

54-61-EA (hex) Zaplox AB
5461EA (base 16) Zaplox AB
Scheelev
Lund Sk 22370
SE

D0-8B-7E (hex) Passif Semiconductor
D08B7E (base 16) Passif Semiconductor
400 S. El Camino Real Suite 250
San Mateo California 94402
US

04-58-6F (hex) Sichuan Whayer information industry Co.,LTD
04586F (base 16) Sichuan Whayer information industry Co.,LTD
Layer 16,Building 10, C Area
Chengdu City 610041

CN

2C-7B-5A (hex) Milper Ltd
2C7B5A (base 16) Milper Ltd
32 Shaham St.
Petach Tikva 49250
IL

18-5A-E8 (hex) Zenotech.Co.,Ltd
185AE8 (base 16) Zenotech.Co.,Ltd
E-503, BundangTechno Park, Yatap-dong
Seongnam 463-760
KR

C4-7D-CC (hex) Zebra Technologies Inc
C47DCC (base 16) Zebra Technologies Inc
475 Half Day Road
Lincolnshire IL 60069
US

E0-AE-ED (hex) LOENK
E0AEED (base 16) LOENK
F9, Cheongdam
Venture Plaza
SEOUL 135-951
KR

E4-92-E7 (hex) Gridlink Tech. Co.,Ltd.
E492E7 (base 16) Gridlink Tech. Co.,Ltd.
Room No. 619, No. 108 Jiang Bin Dong Road
Fuzhou Fujian 350015
CN

D4-BF-2D (hex) SE Controls Asia Pacific Ltd
D4BF2D (base 16) SE Controls Asia Pacific Ltd
Unit 301, 3/F, Hung To Centre,
Kwun Tong Kowloon
HK

9C-E6-35 (hex) Nintendo Co., Ltd.
9CE635 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

60-A4-4C (hex) ASUSTek COMPUTER INC.
60A44C (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan

Taipei Taiwan 112
TW

CC-04-7C (hex) G-WAY Microwave
CC047C (base 16) G-WAY Microwave
38 Leuning Street
South Hackensack New Jersey 07078
US

50-AB-BF (hex) Hoseo Telecom
50ABBF (base 16) Hoseo Telecom
701 ACE Techno Tower 684-1
Seoul 157-721
KR

3C-6F-F7 (hex) EnTek Systems,
Inc.
3C6FF7 (base 16) EnTek Systems, Inc.
562 Starlight Dr.
Sautee Nacoochee GA 30571
US

1C-37-BF (hex) Cloudium Systems Ltd.
1C37BF (base 16) Cloudium Systems Ltd.
Hartnett Centre
Limerick 00
IE

B4-98-42 (hex) zte corporation
B49842 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

70-54-D2 (hex) PEGATRON CORPORATION
7054D2 (base 16) PEGATRON CORPORATION
5F No. 76, Ligong St., Beitou District
Taipei City Taiwan 112
TW

98-20-8E (hex) Definium Technologies
98208E (base 16) Definium Technologies
34 Fairthorne Road
Launceston Tasmania 7250
AU

70-4A-E4 (hex) Rinstrum Pty Ltd
704AE4 (base 16) Rinstrum Pty Ltd

41 Success St
Acacia Ridge QLD 4110
AU

08-3A-B8 (hex) Shinoda Plasma Co., Ltd.
083AB8 (base 16) Shinoda Plasma Co., Ltd.
4-6-7, Minatojima Minamimachi, Chuo-ku
Kobe Hyogo 6500047
JP

A0-DD-97
(hex) PolarLink Technologies, Ltd
A0DD97 (base 16) PolarLink Technologies, Ltd
6FL 352, Zhonghua 1st Rd. Kaohsiung 804 Taiwan
Kaohsiung Taiwan 804
TW

E0-D9-A2 (hex) Hippih aps
E0D9A2 (base 16) Hippih aps
Sceince Park Scion
Lyngby 2800
DK

FC-06-47 (hex) Cortland Research, LLC
FC0647 (base 16) Cortland Research, LLC
12 S Main St., Ste 207
Homer NY 13077
US

FC-9F-AE (hex) Fidus Systems Inc
FC9FAE (base 16) Fidus Systems Inc
35 Fitzgerald Road
Ottawa Ontario K2H 1E6
CA

68-1E-8B (hex) InfoSight Corporation
681E8B (base 16) InfoSight Corporation
20700 US Hwy 23
Chillicothe Ohio 45601
US

70-76-DD (hex) OxyGuard Internation A/S
7076DD (base 16) OxyGuard Internation A/S
Farum Gydevej 64
Farum DK-3520
DK

E8-9A-FF (hex) Fujian LANDI Commercial Equipment Co.,Ltd

E89AFF (base 16) Fujian LANDI Commercial Equipment Co.,Ltd
Building
17,the 1st Section ,Fuzhou Software Park
No.89 Software Road Fuzhou ,Fujian 350003
CN

D0-52-A8 (hex) Physical Graph Corporation
D052A8 (base 16) Physical Graph Corporation
11654 Plaza America Drive
Reston VA 20190
US

CC-3A-61 (hex) SAMSUNG ELECTRO MECHANICS CO., LTD.
CC3A61 (base 16) SAMSUNG ELECTRO MECHANICS CO., LTD.
314, Maetan3-Dong, Yeongtong-Gu
Suwon Gyunggi-Do 443-743
US

F8-D7-BF (hex) REV Ritter GmbH
F8D7BF (base 16) REV Ritter GmbH
Frankenstra
M Bavaria 63776
DE

F8-48-97 (hex) Hitachi, Ltd.
F84897 (base 16) Hitachi, Ltd.
27-18, Minami Oi 6-chome, Shinagawa-ku
Tokyo 140-8572
JP

EC-89-F5 (hex) Lenovo Mobile Communication Technology Ltd.
EC89F5 (base 16) Lenovo Mobile Communication Technology Ltd.
No.999,Qishan North 2nd Road,Information&Optoelectronics Park,Torch Hi-tech Industry Development Zone,
Xiamen Fujian 361006
US

6C-D1-46 (hex) FRAMOS GmbH
6CD146
(base 16) FRAMOS GmbH
Mehlbeerenstr. 2
Taufkirchen 82024
DE

F0-73-AE (hex) PEAK-System Technik
F073AE (base 16) PEAK-System Technik
Otto-Roehm-Str 69
Darmstadt Hessen 64293
DE

48-B8-DE (hex) HOMEWINS TECHNOLOGY CO.,LTD.
48B8DE (base 16) HOMEWINS TECHNOLOGY CO.,LTD.
10F-1, NO. 122, QIAOHE RD.,
NEW TAIPEI CITY, 235
TW

10-EA-59 (hex) Cisco SPVTG
10EA59 (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

0C-19-1F (hex) Inform Electronik
0C191F (base 16) Inform Electronik
Emek mah.Ordu cad.No-49-51-53
Sarigazi-Sancaktepe Istanbul 34785
US

10-65-CF (hex) IQSIM
1065CF (base 16) IQSIM
2000 Route des Lucioles
BIOT 06410
FR

68-4C-A8 (hex) Shenzhen Herotel Tech. Co., Ltd.
684CA8 (base 16) Shenzhen Herotel Tech. Co., Ltd.
Room W1402, West Tower, No.10128, Shennan Road, Nanshan District
Shenzhen Guangdong 518000
CN

0C-8C-DC
(hex) Suunto Oy
0C8CDC (base 16) Suunto Oy
Valimotie 7
Vantaa Uusimaa 02710
FI

60-C5-A8 (hex) Beijing LT Honway Technology Co.,Ltd
60C5A8 (base 16) Beijing LT Honway Technology Co.,Ltd
Room 1703,A1 Tower, Changyuan Tiandi, No.18,Suzhou Street
beijing beijing 100086
CN

B4-DF-3B (hex) Chromlech
B4DF3B (base 16) Chromlech
19 av. Gabriel Faure
THORIGNE FOUILLARD 35235

FR

A8-45-E9 (hex) Firich Enterprises CO., LTD.
A845E9 (base 16) Firich Enterprises CO., LTD.
10F., No. 75, Sec. 1, Xintai 5th Rd., Xizhi Dist.
New Taipei City Taiwan (R.O.C.) 886
TW

7C-9A-9B (hex) VSE valencia smart energy
7C9A9B (base 16) VSE valencia smart energy
Sir Alexander Fleming n
Paterna Valencia 46980
ES

F8-0B-D0 (hex) Datang Telecom communication terminal (Tianjin) Co., Ltd.
F80BD0 (base 16) Datang Telecom communication terminal (Tianjin) Co., Ltd.
Garden East Roadon the 15th,
Haidian
District Beijing 100191
CN

64-5A-04 (hex) Chicony Electronics Co., Ltd.
645A04 (base 16) Chicony Electronics Co., Ltd.
No.25, Wugong 6th Rd., Wugu Dist.,
New Taipei City 248, TAIWAN, REPUBLIC OF CHINA 248
TW

AC-17-02 (hex) Fibar Group sp. z o.o.
AC1702 (base 16) Fibar Group sp. z o.o.
ul. Lotnicza 1
Poznan 60-421
PL

98-4C-D3 (hex) Mantis Deposition
984CD3 (base 16) Mantis Deposition
2 Goodson Industrial Mews
Thame Oxfordshire OX9 3BX
GB

08-60-6E (hex) ASUSTek COMPUTER INC.
08606E (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

3C-57-D5 (hex) FiveCo
3C57D5 (base 16) FiveCo
Ch. de la Rueyre 116

Renens VD 1020
US

84-E7-14 (hex) Liang Herng Enterprise,Co.Ltd.
84E714 (base 16) Liang Herng Enterprise,Co.Ltd.
1FL,No.27,KweiYang Street,Sanchung District,New Taipei City,Taiwan,R.O.C.
New Taipei City
241
TW

E4-A7-FD (hex) Cellco Partnership
E4A7FD (base 16) Cellco Partnership
One Verizon Way
Baskin Ridge New Jersey 07920
US

2C-E2-A8 (hex) DeviceDesign
2CE2A8 (base 16) DeviceDesign
Yeongtong-dong, Yeongtong-gu
Suwon-si Gyeonggi-do 443-813
KR

D4-13-6F (hex) Asia Pacific Brands
D4136F (base 16) Asia Pacific Brands
PO Box 113001
Auckland Newmarket 1149
NZ

00-B5-6D (hex) David Electronics Co., LTD.
00B56D (base 16) David Electronics Co., LTD.
9F, -2, No. 188, Sec. 3, Ta-Tung Rd.,
New Taipei City, 22103
TW

2C-35-57 (hex) ELIIY Power CO., Ltd.
2C3557 (base 16) ELIIY Power CO., Ltd.
1-6-4, Osaki
Shinagawa-ku 141-0032
JP

B8-04-15 (hex) Bayan Audio
B80415 (base 16) Bayan Audio
5 The Pavilions
Pease Pottage West Sussex RH11 9BJ
GB

F4-47-2A (hex) Nanjing Rousing Sci. and Tech. Industrial Co., Ltd
F4472A (base 16) Nanjing Rousing Sci. and

Tech. Industrial Co., Ltd
A630,F6,NO.58 Nanhu Road,Jianye District
Nanjing Jiangsu 210017
CN

DC-02-8E (hex) zte corporation
DC028E (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

64-62-23 (hex) Cellient Co., Ltd.
646223 (base 16) Cellient Co., Ltd.
6F Glass Tower, 366-4 Yatap-dong Bundang-gu
Seongnam-si Gyeonggi-do 463-827
KR

98-47-3C (hex) SHANGHAI SUNMON COMMUNICATION TECHNOGY CO.,LTD
98473C (base 16) SHANGHAI SUNMON COMMUNICATION TECHNOGY CO.,LTD
Suite 604-605,Xing Yuan Technology Plaza 418 Gui Ping Road ShangHAI
Shanghai 200233
CN

54-81-AD (hex) Eagle Research Corporation
5481AD (base 16) Eagle Research Corporation
4237 State Route 34
Hurricane West Virginia 25526
US

EC-47-3C (hex) Redwire, LLC
EC473C (base 16) Redwire, LLC
8 Thorndike St
Everett MA 02149
US

54-A0-4F (hex) t-mac Technologies
Ltd
54A04F (base 16) t-mac Technologies Ltd
Stand Park
Chesterfield Derbyshire S41 8JT
GB

14-DB-85 (hex) S NET MEDIA
14DB85 (base 16) S NET MEDIA
4F, SEHYUN BLDG, 1581-7
SEOUL 137-875
KR

B8-DA-F1 (hex) Strahlenschutz- Entwicklungs- und Ausruestungsgesellschaft mbH
B8DAF1 (base 16) Strahlenschutz- Entwicklungs- und Ausruestungsgesellschaft mbH
Ostdamm 139
Duelmen NRW 48249
DE

D4-5C-70 (hex) Wi-Fi Alliance
D45C70 (base 16) Wi-Fi Alliance
10900-B Stonelake Boulevard
Austin TX 78759
US

F4-1E-26 (hex) Simon-Kaloi Engineering
F41E26 (base 16) Simon-Kaloi Engineering
31192 La Baya Drive Unit G
Westlake Village CA 91362
US

3C-C1-2C (hex) AES Corporation
3CC12C (base 16) AES Corporation
285 Newbury St
Peabody MA 01960
US

94-9B-FD (hex) Trans New Technology, Inc.
949BFD (base 16) Trans New Technology, Inc.
KY Bldg. 8F, 5-14-4 Nishinippori
Arakawa
Tokyo 116-0013
JP

A0-0A-BF (hex) Wieson Technologies Co., Ltd.
A00ABF (base 16) Wieson Technologies Co., Ltd.
7F, No. 276, Sec. 1, Datong Rd
New Taipei City 221
TW

8C-CD-E8 (hex) Nintendo Co., Ltd.
8CCDE8 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

B8-29-F7 (hex) Blaster Tech
B829F7 (base 16) Blaster Tech
13337 South Street
Cerritos CA 90703
US

C8-E1-A7 (hex) Vertu Corporation Limited
C8E1A7 (base 16) Vertu Corporation Limited
Beacon Hill Road
Church Crookham Hampshire GU52 8DY
GB

4C-AB-33 (hex) KST technology
4CAB33 (base 16) KST technology
Bangi-dong, songpa-gu
Seoul 138-050
KR

48-52-61 (hex) SOREEL
485261 (base 16) SOREEL
18 Rue de la Gâtine
CHOLET FRANCE 49304
FR

7C-B2-32 (hex) Hui Zhou Gaoshengda Technology Co.,LTD
7CB232 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.75,Zhongkai
High-Tech Development District,Huizhou
Hui Zhou Guangdong 516006
CN

00-E6-66 (hex) ARIMA Communications Corp.
00E666 (base 16) ARIMA Communications Corp.
6F.,No.866,Zhongzheng Rd.,Zhonghe Dist.,
New Taipei City Taiwan 23586
TW

34-BD-FA (hex) Cisco SPVTG
34BDFA (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

70-25-26 (hex) Nokia
702526 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

A0-8C-15 (hex) Gerhard D. Wempe KG
A08C15 (base 16) Gerhard D. Wempe KG
Steinstrasse 23
Hamburg 20095

DE

90-CF-6F (hex) Dlogixs Co Ltd
90CF6F (base 16) Dlogixs Co Ltd
DLogixs Bldg, #351-1, Anyang-Dong
Anyang-si Gyeonggi-do 430-010
KR

18-D9-49 (hex) Qvis Labs, LLC
18D949 (base 16) Qvis Labs, LLC
3204 Rustic River Cove
Austin TX 78746-2001
US

04-9F-06 (hex) Smobile Co., Ltd.
049F06 (base 16) Smobile Co., Ltd.
T-1009,
Poongrim i-won Plus, 255-1
Seohyeon-dong, Bundang-gu Seongnam-si, Gyeonggi-do 463-862
KR

28-9A-4B (hex) SteelSeries ApS
289A4B (base 16) SteelSeries ApS
656 West Randolph, Suite 2E
Chicago IL 60661
US

EC-D9-50 (hex) IRT SA
ECD950 (base 16) IRT SA
Puits-Godet 16
NEUCHATEL NE 2000
CH

F8-05-1C (hex) DRS Imaging and Targeting Solutions
F8051C (base 16) DRS Imaging and Targeting Solutions
100 N Babcock St
Melbourne FL 32935
US

78-D3-4F (hex) Pace-O-Matic, Inc.
78D34F (base 16) Pace-O-Matic, Inc.
4150 Blue Ridge Industrial Parkway
Norcross GA 30071
US

A4-46-6B (hex) EOC Technology
A4466B (base 16) EOC Technology
#1601 Acro Palace, 1594 Gwanyang-dong, Dongan-gu

Anyang-si Gyeonggi-do 431-060
KR

7C-38-6C (hex) Real Time Logic
7C386C (base 16) Real Time Logic
12515 Academy Ridge View
Colorado Springs Colorado 80921
US

20-67-B1 (hex) Pluto
inc.
2067B1 (base 16) Pluto inc.
Hongo5-21-1-303
Bunkyo-ku Tokyo 113-0033
JP

18-9A-67 (hex) CSE-Servelec Limited
189A67 (base 16) CSE-Servelec Limited
Rotherside Road
Sheffield S21 4HL
GB

08-7D-21 (hex) Altasec technology corporation
087D21 (base 16) Altasec technology corporation
9F-1, No.75, Sec.1, Xintai 5th Rd.,
New Taipei City Taiwan 221
TW

34-D7-B4 (hex) Tributary Systems, Inc.
34D7B4 (base 16) Tributary Systems, Inc.
3717 Commerce Place
Bedford Texas 76021
US

F4-0F-9B (hex) WAVELINK
F40F9B (base 16) WAVELINK
#701, Dongyoung Venture'stel 3rd, 202-4,
Anyang-si Kyungki-do 430-817
KR

7C-02-BC (hex) Hansung Electronics Co. LTD
7C02BC (base 16) Hansung Electronics Co. LTD
319, Bong san-ri, San dong-myun
Gumi 730-853
KR

B8-24-10 (hex) Magneti Marelli Slovakia s.r.o.
B82410 (base 16) Magneti Marelli Slovakia s.r.o.

Industrial Park Kechnec
Kechnec
04458
SK

10-5F-49 (hex) Cisco SPVTG
105F49 (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

1C-5C-60 (hex) Shenzhen Belzon Technology Co.,LTD.
1C5C60 (base 16) Shenzhen Belzon Technology Co.,LTD.
5F Block 1,Zhongxin Building,Chuangye Rd
Shenzhen Guangdong 518054
CN

0C-C4-7E (hex) EUCAST Co., Ltd.
0CC47E (base 16) EUCAST Co., Ltd.
Room 303, 1018-2 Unjung-dong, Bundang-Gu
Seongnam-si Kyunggi-do 463-440
KR

50-72-4D (hex) BEG Brueck Electronic GmbH
50724D (base 16) BEG Brueck Electronic GmbH
Schlosserstraße 30
Lindlar Nordrhein-Westfalen 51789
DE

78-3C-E3 (hex) Kai-EE
783CE3 (base 16) Kai-EE
3F.-12, No.79, Sec. 1, Xintai 5th Rd.,
New Taipei City 22101
TW

B8-98-B0 (hex) Atlona Inc.
B898B0 (base 16) Atlona Inc.
70 Daggett Dr.
San Jose CA 95134
US

08-0C-0B (hex) SysMik GmbH Dresden
080C0B (base 16) SysMik
GmbH Dresden
Bertolt-Brecht-Allee 24
Dresden 01309
DE

DC-BF-90 (hex) HUIZHOU QIAOXING TELECOMMUNICATION INDUSTRY CO.,LTD.
DCBF90 (base 16) HUIZHOU QIAOXING TELECOMMUNICATION INDUSTRY CO.,LTD.
Qiaoxing Science Technological&Industrial Zone Tangquan
Huizhou Guangdong 516023
CN

C8-FB-26 (hex) Cisco SPVTG
C8FB26 (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

AC-BD-0B (hex) Leimac Ltd.
ACBD0B (base 16) Leimac Ltd.
1551, Sazukawa-chou
Moriyama-shi Shiga-ken 524-0215
JP

B8-58-10 (hex) NUMERA, INC.
B85810 (base 16) NUMERA, INC.
1511 3RD AVE
SEATTLE WA 98101
US

64-5F-FF (hex) Nicolet Neuro
645FFF (base 16) Nicolet Neuro
1850 Deming Way
Middleton WI 53562
US

24-69-4A (hex) Jasmine Systems Inc.
24694A (base 16) Jasmine Systems Inc.
50 Charles Lindbergh Blvd. Suite 411
Uniondale NY 11553
US

D8-08-F5 (hex) Arcadia
Networks Co. Ltd.
D808F5 (base 16) Arcadia Networks Co. Ltd.
Cheung Sha Wan 5-B FL
Kowloon 0633
HK

C0-A3-64 (hex) 3D Systems Massachusetts
C0A364 (base 16) 3D Systems Massachusetts
19 Connector Road
Andover MA 01810
US

AC-7A-42 (hex) iConnectivity
AC7A42 (base 16) iConnectivity
4620 Manilla Road SE, Unit 58
Calgary Alberta T2G 4B7
CA

70-0B-C0 (hex) Dewav Technology Company
700BC0 (base 16) Dewav Technology Company
Room 1408, Real Estate Mansion
Shangahi 200120
CN

CC-14-A6 (hex) Yichun MyEnergy Domain, Inc
CC14A6 (base 16) Yichun MyEnergy Domain, Inc
349W. Yuanshan Rd, Yichun
Yichun Jiangxi 336000
CN

1C-5F-FF (hex) Beijing Ereneben Information Technology Co.,Ltd Shenzhen Branch
1C5FFF (base 16) Beijing Ereneben Information Technology Co.,Ltd Shenzhen Branch
Room 14A, Building A, Honglong Central Plaza, No.3001,Heping Road, Luohu District, Shenzhen City
Shenzhen
Guangdong 518001
CN

60-45-BD (hex) Microsoft
6045BD (base 16) Microsoft
1 Microsoft Way
Redmond Washington 98052
US

9C-54-CA (hex) Zhengzhou VCOM Science and Technology Co.,Ltd
9C54CA (base 16) Zhengzhou VCOM Science and Technology Co.,Ltd
National 863 Software Park£¬No.6 Cuizhu Street, Hi-tech Indusry Developing Park
ZhengZhou City Henan Province 450001
CN

90-1E-DD (hex) GREAT COMPUTER CORPORATION
901EDD (base 16) GREAT COMPUTER CORPORATION
4F., No.236, Fude 2nd Rd., Xizhi Dist.,
New Taipei City 22151
TW

B8-B9-4E (hex) Shenzhen iBaby Labs, Inc.
B8B94E (base 16) Shenzhen iBaby Labs, Inc.
Room 218, Building 17,Shangsha Innovation Science and Technology Park,Futian District
Shenzhen Guangdong 518047

CN

AC-C6-98 (hex) Kohzu Precision Co., Ltd.
ACC698 (base 16) Kohzu Precision Co., Ltd.
2-6-15, Kurigi, Asao-ku
Kawasaki-shi Kanagawa 215-8521
JP

AC-0A-61 (hex) Labor
S.r.L.
AC0A61 (base 16) Labor S.r.L.
Via della Scrofa 117
Rome 00186
IT

24-10-64 (hex) Shenzhen Ecsino Tecnical Co. Ltd
241064 (base 16) Shenzhen Ecsino Tecnical Co. Ltd
7F Guoxin build ChangXin Road. Nan'shan District
Shenzhen Guangdong 518000
CN

A4-D1-8F (hex) Shenzhen Skyee Optical Fiber Communication Technology Ltd.
A4D18F (base 16) Shenzhen Skyee Optical Fiber Communication Technology Ltd.
No.5 Bldg. Yimin Industrial Park, No.31, Makan South Road, Nanshan District
Shenzhen Guangdong 518000
CN

58-34-3B (hex) Glovast Technology Ltd.
58343B (base 16) Glovast Technology Ltd.
6F., No.23, JianKang Rd., SongShan Dist.,
Taipei 105
TW

10-9F-A9 (hex) Actiontec Electronics, Inc
109FA9 (base 16) Actiontec Electronics, Inc
3301 Olcott St.
Santa Clara CA 95054
US

88-96-76 (hex) TTC MARCONI s.r.o.
889676 (base 16) TTC MARCONI s.r.o.
Trebohosticka s.r.o.
Praha
10000
CZ

5C-17-37 (hex) I-View Now, LLC.
5C1737 (base 16) I-View Now, LLC.

1421 E. Sunset
Las Vegas NV 89119
US

70-B5-99 (hex) Embedded Technologies s.r.o.
70B599 (base 16) Embedded Technologies s.r.o.
Doubravice 134
Turnov 51101
CZ

7C-EB-EA (hex) ASCT
7CEBEA (base 16) ASCT
4F., No.49, Wu-Gong 6th Rd. Wu-Gu Industrial Park,
New Taipei City 248
TW

9C-0D-AC (hex) Tymphany HK Limited
9C0DAC (base 16) Tymphany HK Limited
RM 1307-8
43-59, Queen's Road East Wanchai
HK

1C-43-EC (hex) JAPAN CIRCUIT CO.,LTD
1C43EC (base 16) JAPAN CIRCUIT CO.,LTD
NKF-Kawasaki-Building 7F
Kawasaki Kanagawa 2100005
JP

00-BF-15 (hex) Genetec Inc.
00BF15 (base 16) Genetec Inc.
2280 boul. Alfred-Nobel
St,. Laurent Quebec H4S 2A4
CA

74-6A-89 (hex) Rezolt Corporation
746A89 (base 16) Rezolt Corporation
2855 Bowers Avenue
Santa Clara CA 95051
US

70-2F-4B
(hex) Steelcase Inc.
702F4B (base 16) Steelcase Inc.
901 44th Street SE
Grand Rapids MI 49508-7594
US

EC-4C-4D (hex) ZAO NPK RoTeK

EC4C4D (base 16) ZAO NPK RoTeK
Bild. 119-1, Prospekt Mira
Moscow Moscow 129223
RU

54-D1-B0 (hex) Universal Laser Systems, Inc
54D1B0 (base 16) Universal Laser Systems, Inc
16008 N 81st street
scottsdale az 85260
US

78-52-62 (hex) Shenzhen Hojy Software Co., Ltd.
785262 (base 16) Shenzhen Hojy Software Co., Ltd.
3F,East of Building25,Keyuanxi,Number 5,Kezhixi Road, Science & Industry Park ,Nan Shan District ,Shenzhen
ShenZhen GuangDong 508057
CN

CC-18-7B (hex) Manzanita Systems, Inc.
CC187B (base 16) Manzanita Systems, Inc.
14269 Danielson Street
Poway CA 92064
US

D4-DF-57 (hex) Alpinion Medical Systems
D4DF57 (base 16) Alpinion Medical Systems
1F Verdi Tower 222-22
Seoul 181-848
KR

50-48-EB (hex) BEIJING HAIHEJINSHENG
NETWORK TECHNOLOGY CO. LTD.
5048EB (base 16) BEIJING HAIHEJINSHENG NETWORK TECHNOLOGY CO. LTD.
RM 701 Unit 2 Huirong Bldg. No.106 Lianhuachi East RD. Xuanwu Dist. Beijing
BEIJING CHINA 100055
CN

B4-0E-96 (hex) HERAN
B40E96 (base 16) HERAN
No.88, Keji 3rd Rd., Guishan Township
Taoyuan R.O.C 333
TW

74-14-89 (hex) SRT Wireless
741489 (base 16) SRT Wireless
4101 SW 47th Avenue #102
Davie Florida 33314
US

24-1B-13 (hex) Shanghai Nutshell Electronic Co., Ltd.
241B13 (base 16) Shanghai Nutshell Electronic Co., Ltd.
365 Guoshoujing RD.,Zhangjiang Hi-Tech Park, Pudong District
Shanghai Shanghai 201203
CN

B4-35-64 (hex) Fujian Tian Cheng Electron Science & Technical Development Co.,Ltd.
B43564 (base 16) Fujian Tian Cheng Electron Science & Technical Development Co.,Ltd.
1801 unit,Tian an Cyber Times Tower A,Futian District
Shenzhen Guangdong 518000
CN

20-01-4F (hex) Linea Research
Ltd
20014F (base 16) Linea Research Ltd
1 Marquis Business Centre
Baldock Hertfordshire SG7 6XL
GB

EC-0E-D6 (hex) ITECH INSTRUMENTS SAS
EC0ED6 (base 16) ITECH INSTRUMENTS SAS
3 Avenue de la Maranne
Châteauneuf-Les-Martigues 13220
FR

38-EE-9D (hex) Anedo Ltd.
38EE9D (base 16) Anedo Ltd.
Huelsmeyerstraße 35
Eydelstedt 49406
DE

24-09-17 (hex) Devlin Electronics Limited
240917 (base 16) Devlin Electronics Limited
Unit D1
Basingstoke Hampshire RG226HZ
GB

78-BE-BD (hex) STULZ GmbH
78BEBD (base 16) STULZ GmbH
Holsteiner Chausse 283
Hamburg 22457
DE

50-8C-77 (hex) DIRMEIER Schanktechnik GmbH &Co KG
508C77 (base 16) DIRMEIER Schanktechnik GmbH &Co KG
Alfons-Goppel-Straße 5
92526 Oberviechtach
DE

40-70-4A (hex) Power Idea Technology Limited
40704A (base 16) Power Idea Technology Limited
1401A, Mintai Building, WenXin 5 Road, ShenZhen, PRC
Guang
Dong Shen Zhen 518054
CN

54-5E-BD (hex) NL Technologies
545EBD (base 16) NL Technologies
33 Laird Drive
Toronto ON M4G3S8
CA

28-F6-06 (hex) Syes srl
28F606 (base 16) Syes srl
Via Zanella 21
Lissone (MB) Monza Brianza 20851
IT

0C-AF-5A (hex) GENUS POWER INFRASTRUCTURES LIMITED
0CAF5A (base 16) GENUS POWER INFRASTRUCTURES LIMITED
SPL-3 RIICO INDUSTRIAL AREA
JAIPUR RAJASTHAN 302022
IN

F4-7F-35 (hex) Cisco Systems, Inc
F47F35 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

BC-C1-68 (hex) DinBox Sverige AB
BCC168 (base 16) DinBox Sverige AB
Surbrunnsgatan 14
Stockholm 11427
SE

24-11-25 (hex) Hutek Co., Ltd.
241125 (base 16) Hutek Co., Ltd.
E-402 Bundang Technopark
Seongnam-city Gyeonggi-do 463-760
KR

B4-31-B8 (hex) Aviwest
B431B8 (base 16) Aviwest
6 rue du Patis Tatelin
Rennes 35700

FR

0C-E5-D3
(hex) DH electronics GmbH
0CE5D3 (base 16) DH electronics GmbH
Am Anger 8
Bergen 83346
DE

08-BE-09 (hex) Astrol Electronic AG
08BE09 (base 16) Astrol Electronic AG
Vorderi Böde 3
Oberrohrdorf AG 5452
CH

B4-1D-EF (hex) Internet Laboratories, Inc.
B41DEF (base 16) Internet Laboratories, Inc.
P.O. Box 7697
Atlanta GA 30357
US

80-93-93 (hex) Xapt GmbH
809393 (base 16) Xapt GmbH
Neidenburger Str. 10
Gelsenkirchen NRW 45897
DE

28-17-CE (hex) Omnisense Ltd
2817CE (base 16) Omnisense Ltd
3rd Floor St Andrew's House
Cambridge Cambridgeshire CB2 3BZ
GB

3C-CE-73 (hex) Cisco Systems, Inc
3CCE73 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

B0-BD-6D (hex) Echostreams Innovative Solutions
B0BD6D (base 16) Echostreams Innovative Solutions
1130 Coiner Ct.
City of Industry CA 91748
US

0C-D2-B5 (hex) Binatone Telecommunication
Pvt. Ltd
0CD2B5 (base 16) Binatone Telecommunication Pvt. Ltd

A36, G/F, Sector 4
Uttar Pradesh 201301
IN

48-46-F1 (hex) Uros Oy
4846F1 (base 16) Uros Oy
Tutkijantie 4
OULU 90590
FI

B8-27-EB (hex) Raspberry Pi Foundation
B827EB (base 16) Raspberry Pi Foundation
Mitchell Wood House
Caldecote Cambridgeshire CB23 7NU
US

F8-99-55 (hex) Fortress Technology Inc
F89955 (base 16) Fortress Technology Inc
51 Grand Marshall Drive
Scarborough Ontario M1B 5N6
CA

4C-C9-4F (hex) Nokia
4CC94F (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

B0-58-C4 (hex) Broadcast Microwave Services, Inc
B058C4 (base 16) Broadcast Microwave Services, Inc
12367 Crosthwaite Circle
Poway CA 92064
US

84-AF-1F (hex) Beat System Service Co,. Ltd.
84AF1F (base 16) Beat System Service Co,. Ltd.
1-11-1-2F, Nodaya-cho
Okayama-city Okayama 700-0815
JP

A0-07-B6
(hex) Advanced Technical Support, Inc.
A007B6 (base 16) Advanced Technical Support, Inc.
10 Grassmere Ave
West Hartford CT 06110
US

E4-25-E9 (hex) Color-Chip

E425E9 (base 16) Color-Chip
Tavor Building 1
New Industrial Park Yokneam 20692
IL

78-A1-83 (hex) Advidia
78A183 (base 16) Advidia
3 Riverway
Houston TX 77056
US

DC-30-9C (hex) Heyrex Limited
DC309C (base 16) Heyrex Limited
Level 1, 236-256 Karori Road
Wellington 6147
NZ

7C-EF-8A (hex) Inhon International Ltd.
7CEF8A (base 16) Inhon International Ltd.
2F, No.552, Ruiguang Rd, Neihu Dist
Taipei Taiwan 114
TW

9C-01-11 (hex) Shenzhen Newabel Electronic Co., Ltd.
9C0111 (base 16) Shenzhen Newabel Electronic Co., Ltd.
5Flr, South Tower of Sichuan Bld.,
Shenzhen Guangdong 518028
CN

40-0E-67 (hex) Tremol Ltd.
400E67 (base 16) Tremol Ltd.
6 Toledo str.
Veliko Turnovo 5000
BG

60-44-F5
(hex) Easy Digital Ltd.
6044F5 (base 16) Easy Digital Ltd.
Victoria Buildings, 1 Haddington Road
Dublin 4
IE

74-57-98 (hex) TRUMPF Laser GmbH + Co. KG
745798 (base 16) TRUMPF Laser GmbH + Co. KG
Aichhalder Str. 39
Schramberg BW 78713
DE

14-B1-C8 (hex) InfiniWing, Inc.
14B1C8 (base 16) InfiniWing, Inc.
19925 Stevens Creek Blvd
Cupertino CA 95014
US

50-05-3D (hex) CyWee Group Ltd
50053D (base 16) CyWee Group Ltd
3F, No.28, Lane128
Taipei 10462
TW

F8-8C-1C (hex) KAISHUN ELECTRONIC TECHNOLOGY CO., LTD. BEIJING
F88C1C (base 16) KAISHUN ELECTRONIC TECHNOLOGY CO., LTD. BEIJING
NO.1 FARM, HENGQIAO VILLAGE WEST, MACHIKOU TOWN,
BEIJING 102200
CN

1C-0B-52 (hex) EPICOM S.A
1C0B52 (base 16) EPICOM S.A
Autovia Andalucia Km 12.700
Getafe Madrid 28905
ES

74-7E-2D (hex) Beijing Thomson CITIC Digital Technology Co. LTD.
747E2D (base 16) Beijing
Thomson CITIC Digital Technology Co. LTD.
8301, No.8 Workshop, 3 Yongchangbei Road
Beijing 100176
CN

4C-64-D9 (hex) Guangdong Leawin Group Co., Ltd
4C64D9 (base 16) Guangdong Leawin Group Co., Ltd
10/F, Domain Bldg,No.8 Keji Road(E),HiTech Development District,
Shantou Guangdong 515041
CN

94-01-49 (hex) AutoHotBox
940149 (base 16) AutoHotBox
14090 SW Frwy, Ste. 300
Sugar Land TX 77478
US

1C-B0-94 (hex) HTC Corporation
1CB094 (base 16) HTC Corporation
No. 23, Xinghua Rd., Taoyuan City
Taoyuan County Taiwan 330
TW

B4-82-55 (hex) Research Products Corporation
B48255 (base 16) Research Products Corporation
1015 E. Washington Ave
Madison WI 53703
US

80-16-B7 (hex) Brunel University
8016B7 (base 16) Brunel University
School of IS, Computing & Maths
Uxbridge Middlesex UB8 3PH
GB

F0-F7-55 (hex) Cisco Systems, Inc
F0F755 (base 16) Cisco Systems, Inc
80
West Tasman Drive
San Jose CA 94568
US

1C-B2-43 (hex) TDC A/S
1CB243 (base 16) TDC A/S
Telehøjen 1
Odense SØ 5220
DK

38-BF-33 (hex) NEC CASIO Mobile Communications
38BF33 (base 16) NEC CASIO Mobile Communications
1753,Shimonumabe
Kawasaki-shi Kanagawa 211-8666
JP

3C-C1-F6 (hex) Melange Systems Pvt. Ltd.
3CC1F6 (base 16) Melange Systems Pvt. Ltd.
4/1, 7th Cross, Kumarapark West
Bangalore Karnataka 560020
IN

94-FA-E8 (hex) Shenzhen Eycom Technology Co., Ltd
94FAE8 (base 16) Shenzhen Eycom Technology Co., Ltd
EYANG Building, No. 3 of Qimin Rd, Langshan 2nd Street, North Area of Hi-Tech Industrial Zone, Nanshan District
Shenzhen Guang Dong 518057
CN

E8-40-F2 (hex) PEGATRON CORPORATION
E840F2 (base 16) PEGATRON CORPORATION
5F No. 76, Ligong St., Beitou District

Taipei City Taiwan 112
TW

64-5E-BE (hex) Yahoo! JAPAN
645EBE (base 16) Yahoo! JAPAN
Midtown
Tower
Minato-ku Tokyo 107-6211
JP

CC-C5-0A (hex) SHENZHEN DAJIAHAO TECHNOLOGY CO.,LTD
CCC50A (base 16) SHENZHEN DAJIAHAO TECHNOLOGY CO.,LTD
3F Buliding 1, 2th Park TaoHuaYuan Tech- Innovation,
Shenzhen Guangdong 518102
CN

D8-BF-4C (hex) Victory Concept Electronics Limited
D8BF4C (base 16) Victory Concept Electronics Limited
4/F., CAC Tower,
Kwun Tong Kowloon KLN
HK

3C-B9-A6 (hex) Belden Deutschland GmbH
3CB9A6 (base 16) Belden Deutschland GmbH
Stuttgarter Straße 45-51
Neckartenzlingen 72654
DE

00-8D-DA (hex) Link One Co., Ltd.
008DDA (base 16) Link One Co., Ltd.
601F Chungjuk tower 546-9
Buchion Gyeonggi-do 420-864
KR

C4-98-05 (hex) Minieum Networks, Inc
C49805 (base 16) Minieum Networks, Inc
6404 International Parkway
Plano Texas 75093
US

90-F4-C1 (hex) Rand McNally
90F4C1 (base 16) Rand McNally
9855 Woods Drive
Skokie IL 60077
US

18-19-3F

(hex) Tamtron Oy
18193F (base 16) Tamtron Oy
P.O.Box 15 (Vestonkatu 11)
Tampere 33561
FI

88-5C-47 (hex) Alcatel Lucent
885C47 (base 16) Alcatel Lucent
Via Energy Park, 14
Vimercate MB 20871
IT

C0-DF-77 (hex) Conrad Electronic SE
C0DF77 (base 16) Conrad Electronic SE
Klaus Conrad Str. 1
Hirschau Bavaria 92240
DE

30-55-ED (hex) Trex Network LLC
3055ED (base 16) Trex Network LLC
Room 505, Tower B Nongke Building,
Beijing 100097
CN

8C-0C-A3 (hex) Amper
8C0CA3 (base 16) Amper
Marconi 3, PTM
Tres Cantos Madrid 28760
US

94-DF-58 (hex) IJ Electron CO.,Ltd.
94DF58 (base 16) IJ Electron CO.,Ltd.
401 ACE HIGHEND8, 345-4 GASAN-DONG
SEOUL 153-802
KR

48-D5-4C (hex) Jeda Networks
48D54C (base 16) Jeda Networks
2618 San Miguel Drive
Newport Beach Ca. 92660
US

BC-B8-52 (hex) Cybera, Inc.
BCB852 (base 16) Cybera, Inc.
9009
Carothers Parkway
Franklin TN 37067
US

C4-93-00 (hex) 8Devices
C49300 (base 16) 8Devices
Gedimino st. 47
Kaunas LT 44242
LT

6C-A6-82 (hex) EDAM information & communications
6CA682 (base 16) EDAM information & communications
601, Hanlim Veture town, 689-6
Gunpo Gyenggi-Do 435-862
KR

28-D5-76 (hex) Premier Wireless, Inc.
28D576 (base 16) Premier Wireless, Inc.
4222 E. La Palma Ave.
Anaheim CA 92807
US

70-D6-B6 (hex) Metrum Technologies
70D6B6 (base 16) Metrum Technologies
315 South University Parks Drive
Waco Texas 76701
US

C0-A0-DE (hex) Multi Touch Oy
C0A0DE (base 16) Multi Touch Oy
Henry Fordin katu 6
Helsinki 00150
FI

8C-DE-52 (hex) ISSC Technologies Corp.
8CDE52 (base 16) ISSC Technologies Corp.
4F, No.8, Dusing Rd.,
Hsinchu City 30078
TW

08-25-22 (hex) ADVANSEE
082522 (base 16) ADVANSEE
9 Rue Alfred Kastler
NANTES
44307
FR

4C-2F-9D (hex) ICM Controls
4C2F9D (base 16) ICM Controls
7313 William Barry Blvd
North Syracuse NY 13212

US

1C-BB-A8 (hex) OJSC Ufimskiy Zavod Promsvyaz
1CBBA8 (base 16) OJSC Ufimskiy Zavod Promsvyaz
39, 50 let SSSR
Ufa Bashkortostan 450071
RU

9C-A1-34 (hex) Nike, Inc.
9CA134 (base 16) Nike, Inc.
1 Bowerman Drive
Beaverton OR 97005
US

58-1D-91 (hex) Advanced Mobile Telecom co.,ltd.
581D91 (base 16) Advanced Mobile Telecom co.,ltd.
#608, Yatap Leaders Bldg. 342-1
Seongnam-si Gyeonggi-do 463-828
KR

1C-B1-7F (hex) NEC Platforms, Ltd.
1CB17F (base 16) NEC Platforms, Ltd.
800 Shimomata
Kakegawa Shizuoka 436-8501
JP

E4-2C-56 (hex) Lilee Systems, Ltd.
E42C56 (base 16) Lilee Systems, Ltd.
2905 Stender Way, Suite 78
Santa Clara CA 95054
US

B8-96-74 (hex) AllDSP GmbH & Co. KG
B89674 (base 16) AllDSP GmbH & Co. KG
Spenglerstrasse
6
Hamm NRW 59067
DE

48-E1-AF (hex) Vity
48E1AF (base 16) Vity
180 rue Pierre Landais
Caudan 56 56850
FR

B4-67-E9 (hex) Qingdao GoerTek Technology Co., Ltd.
B467E9 (base 16) Qingdao GoerTek Technology Co., Ltd.
5F, No.3 Building, Fortune Center

Qingdao Shandong 266061
CN

18-67-51 (hex) KOMEG Industrielle Messtechnik GmbH
186751 (base 16) KOMEG Industrielle Messtechnik GmbH
Zum Wasserwerk 3
Völklingen 66333
DE

48-ED-80 (hex) daesung eltec
48ED80 (base 16) daesung eltec
#509 SJ Technoville, 60-19, Gasan-dong
Seoul 153-769
KR

C8-07-18 (hex) TDSi
C80718 (base 16) TDSi
Unit 10 Concept Park
Poole Dorset BH12 4QT
GB

40-BC-8B (hex) itelio GmbH
40BC8B (base 16) itelio GmbH
Franz-Larcher-Straße 4
Kiefersfelden Bavaria 83088
DE

6C-9C-ED (hex) Cisco Systems, Inc
6C9CED (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA
94568
US

00-6B-A0 (hex) SHENZHEN UNIVERSAL INTELLISYS PTE LTD
006BA0 (base 16) SHENZHEN UNIVERSAL INTELLISYS PTE LTD
ROOM 1607-1608,XINGJI MANSION
SHENZHEN GUANGDONG 518104
CN

A8-98-C6 (hex) Shinbo Co., Ltd.
A898C6 (base 16) Shinbo Co., Ltd.
203-14, Anyang 7-Dong, Manan-Gu
Anyang-Si Kyungki-Do 430-817
KR

B4-21-1D (hex) Beijing GuangXin Technology Co., Ltd
B4211D (base 16) Beijing GuangXin Technology Co., Ltd

Room 313,B Bld,Horizon International Tower,Zhichun Road,6,Haidian District,Beijing City,P.R.China
Beijing 100086
CN

90-3C-AE (hex) Yunnan KSEC Digital Technology Co.,Ltd.
903CAE (base 16) Yunnan KSEC Digital Technology Co.,Ltd.
3F,NO.176 Keyi ROAD,High and New Technological Industrial Development Zone
Kunming Yunnan 650106
CN

70-70-4C (hex) Purple Communications, Inc
70704C (base 16) Purple Communications, Inc
595 Menlo
Rocklin CA 95765
US

D8-97-60 (hex) C2 Development,
Inc.
D89760 (base 16) C2 Development, Inc.
127 S Bell Ave
Ames IA 50010
US

F4-7A-CC (hex) SolidFire, Inc.
F47ACC (base 16) SolidFire, Inc.
1620 Pearl Street
Boulder Colorado 80302
US

20-10-7A (hex) Gemtek Technology Co., Ltd.
20107A (base 16) Gemtek Technology Co., Ltd.
No. 1 Jen Ai Road Hsinchu Industrial Park Hukou, Hsinchu 30352 TAIWAN, REPUBLIC OF CHINA
Hsinchu TAIWAN 30352
TW

78-DD-D6 (hex) c-scape
78DDD6 (base 16) c-scape
westerkade 22
Gouda 2802 SL
NL

C0-91-32 (hex) Patriot Memory
C09132 (base 16) Patriot Memory
47027 Benicia
Fremont CA 94555
US

90-18-5E (hex) Apex Tool Group GmbH & Co OHG

90185E (base 16) Apex Tool Group GmbH & Co OHG
Industriestraße 1
Westhausen 73463
DE

F8-FE-5C (hex) Reciprocal Labs Corp
F8FE5C (base 16) Reciprocal Labs Corp
3 S. Pinckney St.
Madison WI 53703
US

90-56-82 (hex) Lenbrook
Industries Limited
905682 (base 16) Lenbrook Industries Limited
633 Granite Court
Pickering Ontario L1W 3K1
CA

F0-DA-7C (hex) RLH INDUSTRIES,INC.
F0DA7C (base 16) RLH INDUSTRIES,INC.
936 N. MAIN ST.
ORANGE CA 92867
US

AC-31-9D (hex) Shenzhen TG-NET Botone Technology Co.,Ltd.
AC319D (base 16) Shenzhen TG-NET Botone Technology Co.,Ltd.
2nd floor,Building No.6,Pengtengda industrial zone,Huarong road,Dalang Street Office,
Shenzhen Guangdong 518109
CN

E8-43-B6 (hex) QNAP Systems, Inc.
E843B6 (base 16) QNAP Systems, Inc.
2F., No.22, Zhongxing Rd., Xizhi Dist.
New Taipei City 221
TW

E0-DA-DC (hex) JVC KENWOOD Corporation
E0DADC (base 16) JVC KENWOOD Corporation
3-12, Moriyacho, Kanagawa-ku
Yokohama-shi Kanagawa 221-0022
JP

B8-9B-C9 (hex) SMC Networks Inc
B89BC9 (base 16) SMC Networks Inc
20 Mason
Irvine CA 92618
US

24-86-F4 (hex) Ctek, Inc.
2486F4 (base
16) Ctek, Inc.
34 Miraleste Plaza
Rancho Palos Verdes California 90275
US

C4-23-7A (hex) WhizNets Inc.
C4237A (base 16) WhizNets Inc.
830 Stewart Drive
Sunnyvale California 94085
US

B8-74-24 (hex) Viessmann Elektronik GmbH
B87424 (base 16) Viessmann Elektronik GmbH
Beetwiese 2
Allendorf (Eder) 35108
DE

50-FC-30 (hex) Treehouse Labs
50FC30 (base 16) Treehouse Labs
601 Great Oaks Dr.
Round Rock TX 78681
US

E4-67-BA (hex) Danish Interpretation Systems A/S
E467BA (base 16) Danish Interpretation Systems A/S
Vestre Teglgade 12
Copenhagen SV 2450
DK

B4-51-F9 (hex) NB Software
B451F9 (base 16) NB Software
Eichhalde 3
Weissach i. T. Baden-Württemberg 71554
DE

30-16-8D (hex) ProLon
30168D (base 16) ProLon
17510 rue Charles, Suite 100
Mirabel Quebec J7J 1X9
CA

F4-E6-D7 (hex) Solar Power Technologies, Inc.
F4E6D7 (base 16) Solar Power
Technologies, Inc.
3006 Bee Caves Rd.
Austin Texas 78746

US

E4-AF-A1 (hex) HES-SO
E4AFA1 (base 16) HES-SO
Case postale 2134
Sion 1950
CH

A8-87-ED (hex) ARC Wireless LLC
A887ED (base 16) ARC Wireless LLC
6330 N. Washington St.
Denver CO 80216
US

D4-D2-49 (hex) Power Ethernet
D4D249 (base 16) Power Ethernet
4th Floor, Holborn Gate
London WC2A 1AH
GB

80-42-7C (hex) Adolf Tedsen GmbH & Co. KG
80427C (base 16) Adolf Tedsen GmbH & Co. KG
Otto-Hahn-Str. 13-15
Trittau Schleswig-Holstein D-22946
DE

40-9F-C7 (hex) BAEKCHUN I&C Co., Ltd.
409FC7 (base 16) BAEKCHUN I&C Co., Ltd.
67-5, Gyesu-dong
Bucheon-si Gyeonggi-do 422-070
KR

68-F1-25 (hex) Data Controls Inc.
68F125 (base 16) Data Controls Inc.
Fukashiro Bldg, 8F
Taito-ku Tokyo 111-0052
JP

BC-76-4E (hex) Rackspace US, Inc.
BC764E (base 16) Rackspace US, Inc.
5000 Walzem Rd.
San
Antonio TX 78218
US

30-57-AC (hex) IRLAB LTD.
3057AC (base 16) IRLAB LTD.
3rd Floor, 2A Biulding, Huihao Industrial Park

Shenzhen Guang Dong 518106
CN

98-C8-45 (hex) PacketAccess
98C845 (base 16) PacketAccess
611 North Main Street
Goldfield IA 50543
US

F0-DE-B9 (hex) ShangHai Y&Y Electronics Co., Ltd
F0DEB9 (base 16) ShangHai Y&Y Electronics Co., Ltd
No.3, 588 Tianxiong Road, Shanghai International Medical Zone(SIMZ),
Shanghai 201318
CN

7C-A6-1D (hex) MHL, LLC
7CA61D (base 16) MHL, LLC
1140 East Arques Avenue
Sunnyvale CA 94085
US

00-FC-58 (hex) WebSilicon Ltd.
00FC58 (base 16) WebSilicon Ltd.
25, Habarzel St.,
Tel-Aviv 69710
IL

98-35-71 (hex) Sub10 Systems Ltd
983571 (base 16) Sub10 Systems Ltd
Ash House
Kingsteignton Devon TQ12 3RZ
GB

54-04-A6 (hex) ASUSTek COMPUTER INC.
5404A6 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd.,
Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

F8-33-76 (hex) Good Mind Innovation Co., Ltd.
F83376 (base 16) Good Mind Innovation Co., Ltd.
20, Lane 200, Cheng Hu Rd.
Kaohsiung 833
TW

A0-E2-01 (hex) AVTrace Ltd.(China)
A0E201 (base 16) AVTrace Ltd.(China)

RM704, District B1, Originality Building, No.162 KeXue Avenue Science Town,GUANGZHOU,CHINA
GUANGZHOU GUANGDONG 510611
US

9C-F6-7D (hex) Ricardo Prague, s.r.o.
9CF67D (base 16) Ricardo Prague, s.r.o.
Thamova 13
Praha 8 186 00
CZ

F8-2F-5B (hex) eGauge Systems LLC
F82F5B (base 16) eGauge Systems LLC
1644 Conestoga St, Suite 2
Boulder CO 80301
US

18-7C-81 (hex) Valeo Vision Systems
187C81 (base 16) Valeo Vision Systems
Dunmore Road
County Galway
IE

AC-CC-8E (hex) Axis Communications AB
ACCC8E (base 16) Axis Communications AB
Emdalavägen 14
LUND 22369
SE

98-90-80 (hex) Linkpower Network
System Inc Ltd.
989080 (base 16) Linkpower Network System Inc Ltd.
Room 202, Build 18, Shahe Industrial Zone
Shenzhen Guangdong 518053
CN

18-6D-99 (hex) Adanis Inc.
186D99 (base 16) Adanis Inc.
#2015-2016 Geumkang Penterium
Hakuro, Dongan-Gu, Anyang-Si Kyunggi-Do 431-060
KR

4C-02-89 (hex) LEX COMPUTECH CO., LTD
4C0289 (base 16) LEX COMPUTECH CO., LTD
3F, No.77, LI DE St. Chung Ho Dist.,
New Taipei City 23556
TW

C0-E5-4E (hex) ARIES Embedded GmbH

C0E54E (base 16) ARIES Embedded GmbH
Schöngeisinger Str. 84
Fürstenfeldbruck D-82256
DE

84-2B-50 (hex) Huria Co.,Ltd.
842B50 (base 16) Huria Co.,Ltd.
#190-28 Chungchun-2Dong
Incheon 403-032
KR

50-F6-1A (hex) Kunshan JADE Technologies co., Ltd.
50F61A (base 16) Kunshan JADE Technologies co., Ltd.
12th Floor, Southern Building, Pudong Software Park,828 Xueyuan Road, Bacheng Town
Kunshan Jiangsu 215311
CN

54-20-18
(hex) Tely Labs
542018 (base 16) Tely Labs
545 Middlefield Road
Menlo Park CA 94025
US

58-1F-EF (hex) Tuttnaer LTD
581FEF (base 16) Tuttnaer LTD
Har-Tuv B
Beith Shemesh 99000
IL

58-BD-A3 (hex) Nintendo Co., Ltd.
58BDA3 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

F8-F2-5A (hex) G-Lab GmbH
F8F25A (base 16) G-Lab GmbH
Schiffbaustrasse 10
Zurich CH 8005
CH

8C-8E-76 (hex) taskit GmbH
8C8E76 (base 16) taskit GmbH
Groß-Berliner Damm 37
Berlin 12487
DE

A0-13-3B (hex) HiTi Digital, Inc.
A0133B (base 16) HiTi Digital, Inc.
9F., No.225, Sec. 3, Beixin Rd., Xindian Dist.,
Xindian Dist. New Taipei City 231
TW

B8-BB-6D (hex) ENERES Co.,Ltd.
B8BB6D (base 16) ENERES Co.,Ltd.
1907 Tokyo Art Center
Adahci-ku Tokyo 120-0034
JP

14-37-3B (hex) PROCOM Systems
14373B (base 16) PROCOM
Systems
#1001, Kranz Techno, 5442-1
Seongnam-si Gyunggi-do 462-729
KR

18-97-FF (hex) TechFaith Wireless Technology Limited
1897FF (base 16) TechFaith Wireless Technology Limited
Building C, Jia No.5, Rongchang East Street, BDA District,
Beijing 100176
CN

4C-55-85 (hex) Hamilton Systems
4C5585 (base 16) Hamilton Systems
3143 Production Drive
Fairfield OH 45014
US

CC-C8-D7 (hex) CIAS Elettronica srl
CCC8D7 (base 16) CIAS Elettronica srl
Via Giovanni Durando 38
Milan 20158
IT

84-D3-2A (hex) IEEE 1905.1
84D32A (base 16) IEEE 1905.1
445 Hoes Lane
Piscataway NJ 08855-1331
US

58-2E-FE (hex) Lighting Science Group
582EFE (base 16) Lighting Science Group
1227 South Patrick Drive
Satellite Beach FL 32937
US

30-F9-ED (hex) Sony Corporation
30F9ED (base 16) Sony Corporation
Gotenyama Tec 5-1-2
Tokyo Shinagawa-ku 141-0001
JP

8C-94-CF (hex) Encell
Technology, Inc.
8C94CF (base 16) Encell Technology, Inc.
1412 Sachem Place, Suite 204
Charlottesville VA 22901
US

6C-A7-80 (hex) Nokia Corporation
6CA780 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

EC-EA-03 (hex) DARFON LIGHTING CORP
ECEA03 (base 16) DARFON LIGHTING CORP
167, Shanying Road
Gueishan Taoyuan 33341
TW

CC-60-BB (hex) Empower RF Systems
CC60BB (base 16) Empower RF Systems
316 W. Florence Ave
Inglewood CA 90301
US

7C-DD-20 (hex) IOXOS Technologies S.A.
7CDD20 (base 16) IOXOS Technologies S.A.
4 Chemin de Fontenailles
GLAND VAUD CH-1196
CH

EC-F2-36 (hex) NEOMONTANA ELECTRONICS
ECF236 (base 16) NEOMONTANA ELECTRONICS
Mladost-4, bl. 483, mag. 13
Sofia 1715
BG

04-18-B6 (hex) Private
0418B6 (base 16) Private

E4-A5-EF (hex) TRON LINK ELECTRONICS CO., LTD.

E4A5EF (base 16) TRON LINK ELECTRONICS CO., LTD.
FLAT
A, 20/F., BLOCK 4,ON NING GARDEN,
KOWLOON 999077
HK

70-5C-AD (hex) Konami Gaming Inc
705CAD (base 16) Konami Gaming Inc
585 Trade Center Drive
Las Vegas Nevada 89119
US

3C-6F-45 (hex) Fiberpro Inc.
3C6F45 (base 16) Fiberpro Inc.
59-4 Jang-dong, Yusong-gu
Deajeon 305-343
KR

DC-CE-41 (hex) FE GLOBAL HONG KONG LIMITED
DCCE41 (base 16) FE GLOBAL HONG KONG LIMITED
FLAT 204-205 2/F LAFORD CENTRE838 LAI CHI KOK RD CHEUNG SHA WAN KL
SHENZHEN 518057
CN

FC-6C-31 (hex) LXinstruments GmbH
FC6C31 (base 16) LXinstruments GmbH
Herrenberger Str. 130
Boeblingen 71034
DE

9C-57-11 (hex) Feitian Xunda(Beijing) Aeronautical Information Technology Co., Ltd.
9C5711 (base 16) Feitian Xunda(Beijing) Aeronautical Information Technology Co., Ltd.
Building B,Horizon International Tower,No.6 Zhichun Rd,Haidian District,
Beijing 100088
CN

88-F4-88 (hex) cellon communications
technology(shenzhen)Co.,Ltd.
88F488 (base 16) cellon communications technology(shenzhen)Co.,Ltd.
13/F C Building,Gaoxin S.Ave.,Hi-Tech Industrial Park,Nanshan,shenzhen518057,PRC
shenzhen Guangdong 518057
CN

44-8E-12 (hex) DT Research, Inc.
448E12 (base 16) DT Research, Inc.
2000 Concourse Drive
San Jose CA 95131
US

48-F7-F1 (hex) Nokia
48F7F1 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

30-71-B2 (hex) Hangzhou Prevail Optoelectronic Equipment Co.,LTD.
3071B2 (base 16) Hangzhou Prevail Optoelectronic Equipment Co.,LTD.
Industrial Development Area, Guali Town,
Hangzhou City Zhe Jiang 311241
CN

70-31-87 (hex) ACX GmbH
703187 (base 16) ACX GmbH
Äußere Zwickauer Straße 8
Zwickau 08064
DE

80-97-1B (hex) Altenergy Power System,Inc.
80971B (base 16) Altenergy Power System,Inc.
No.1 Yatai Road,
Jiaxing City, Zhejiang Province, 314050
CN

30-E4-DB
(hex) Cisco Systems, Inc
30E4DB (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E8-4E-06 (hex) EDUP INTERNATIONAL (HK) CO., LTD
E84E06 (base 16) EDUP INTERNATIONAL (HK) CO., LTD
20D Room, Block B, Modern Windows Buidling, FuTian District,
Shenzhen Guangdong 518028
CN

00-07-7D (hex) Cisco Systems, Inc
00077D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E0-C9-22 (hex) Jireh Energy Tech., Ltd.
E0C922 (base 16) Jireh Energy Tech., Ltd.
#606 Seoul Forest Hallasigmavalley, 325-2
Seoul Seongdong-Gu 133-120

KR

90-5F-8D (hex) modas GmbH
905F8D (base 16) modas GmbH
Belziger Str. 69-71
Berlin 10823
DE

58-76-75 (hex) Beijing ECHO Technologies Co.,Ltd
587675 (base 16) Beijing ECHO Technologies Co.,Ltd
NO1 Street 4 Shangdi
BeiJing 100085
CN

0C-51-F7 (hex) CHAUVIN ARNOUX
0C51F7 (base 16) CHAUVIN ARNOUX
LA
QUEUE DEVEE
REUX PONT L EVEQUE 14130
FR

0C-FC-83 (hex) Airoha Technology Corp.,
0CFC83 (base 16) Airoha Technology Corp.,
5F, No.6-5, Dushing Road , Hsinchu Science Park
Hsinchu 300
TW

00-7F-28 (hex) Actiontec Electronics, Inc
007F28 (base 16) Actiontec Electronics, Inc
3301 Olcott St.
Santa Clara CA 95054
US

80-47-31 (hex) Packet Design, Inc.
804731 (base 16) Packet Design, Inc.
2455 Augustine Drive
Santa Clara CA 95054
US

B0-9B-D4 (hex) GNH Software India Private Limited
B09BD4 (base 16) GNH Software India Private Limited
9/14 Sengani Amman Koil Street
Chennai Tamilnadu 600032
IN

F0-8B-FE (hex) COSTEL.,CO.LTD
F08BFE (base 16) COSTEL.,CO.LTD
223-39, Sangdaewon-Dong, Jungwon-Gu

Seongnam-si Kyunggi-Do 462-807
KR

3C-26-D5 (hex) Sotera Wireless
3C26D5 (base 16) Sotera Wireless
9444 Waples Street
San Diego CA 92121
US

00-8D-4E (hex) CJSC
NII STT
008D4E (base 16) CJSC NII STT
N.Leningradskaya str, 10
Smolensk 214012
RU

44-4F-5E (hex) Pan Studios Co.,Ltd.
444F5E (base 16) Pan Studios Co.,Ltd.
1F., NO.402, SEC. 2, JHONGYANG N. RD., BEITOU DISTRICT,
TAIPEI CITY 11258
TW

D0-AF-B6 (hex) Linktop Technology Co., LTD
D0AFB6 (base 16) Linktop Technology Co., LTD
2F Guangye Buliding, Torch Hi-Tech,
Xiamen Fujian 361006
CN

98-EC-65 (hex) Cosesy ApS
98EC65 (base 16) Cosesy ApS
Tyttebaervej 2
Ans Jylland DK-8643
DK

4C-98-EF (hex) Zeo
4C98EF (base 16) Zeo
320 Nevada St
Newton MA 02460
US

B4-5C-A4 (hex) Thing-talk Wireless Communication Technologies Corporation Limited
B45CA4 (base 16) Thing-talk Wireless Communication Technologies Corporation Limited
498 Guo Shou Jing Road, Suite 10402
Shanghai 201203
CN

90-8D-1D (hex) GH Technologies
908D1D (base 16) GH Technologies

5022 Binhe
Road, Block B, United Plaza
Shenzhen 518026
CN

AC-C9-35 (hex) Ness Corporation
ACC935 (base 16) Ness Corporation
4/167 Prospect Highway
Sydney NSW 2147
AU

00-A1-DE (hex) ShenZhen ShiHua Technology CO.,LTD
00A1DE (base 16) ShenZhen ShiHua Technology CO.,LTD
Room505,5/F TsingYi Building,LangShan 2ed Road,High-Tech Industrial Park,
ShenZhen GuangDong 518052
CN

98-F8-DB (hex) Marini Impianti Industriali s.r.l.
98F8DB (base 16) Marini Impianti Industriali s.r.l.
Via delle Province, 6A
Cisterna di Latina 04012
IT

CC-D9-E9 (hex) SCR Engineers Ltd.
CCD9E9 (base 16) SCR Engineers Ltd.
6 Haomanut St.
Netanya 42504
IL

34-A7-09 (hex) Trevil srl
34A709 (base 16) Trevil srl
Via Copernico 1
Pozzo d'Adda MI 20060
IT

98-29-3F (hex) Fujian Start Computer Equipment Co.,Ltd
98293F (base 16) Fujian Start Computer Equipment Co.,Ltd
No.68 Hongshangyuan Road,
Fuzhou
City, Fujian Province, 350002
CN

6C-39-1D (hex) Beijing ZhongHuaHun Network Information center
6C391D (base 16) Beijing ZhongHuaHun Network Information center
6F BeiAo Mansion,HuiXin East Street A2,
Beijing 100029
CN

80-B3-2A (hex) UK Grid Solutions Ltd
80B32A (base 16) UK Grid Solutions Ltd
Harry Kerr Drive
Stafford Staffordshire ST17 4LX
GB

B8-3D-4E (hex) Shenzhen Cultraview Digital Technology Co.,Ltd Shanghai Branch
B83D4E (base 16) Shenzhen Cultraview Digital Technology Co.,Ltd Shanghai Branch
2/F,Building#5,1690Cailun Road,Zhangjiang Hi-tech Park,
Shanghai 201203
CN

50-87-B8 (hex) Nuvyyo Inc
5087B8 (base 16) Nuvyyo Inc
1 Smythe Rd
Carleton Place Ontario K7C4J4
CA

C0-EA-E4 (hex) Sonicwall
C0EAE4 (base 16) Sonicwall
2001 Logic Drive
San Jose CA 95124-3452
US

08-38-A5 (hex) Funkwerk plettac electronic GmbH
0838A5 (base 16) Funkwerk plettac electronic
GmbH
Wuerzburger Str. 150
Fuerth Bavaria 90766
DE

80-6C-BC (hex) NET New Electronic Technology GmbH
806CBC (base 16) NET New Electronic Technology GmbH
Lerchenberg 7
Finning Bavarian 86923
DE

90-90-60 (hex) RSI VIDEO TECHNOLOGIES
909060 (base 16) RSI VIDEO TECHNOLOGIES
56, Rue Jean-Giraudoux - BAT 60
STRASBOURG Bas-Rhin 67200
FR

BC-81-99 (hex) BASIC Co.,Ltd.
BC8199 (base 16) BASIC Co.,Ltd.
Keiefu-Building 9F
Minato-ku Tokyo 108-0014
JP

58-E8-08 (hex) AUTONICS CORPORATION
58E808 (base 16) AUTONICS CORPORATION
41-5 YONGDANG-DONG
YANGSAN-SI KYEONGNAM 626-847
KR

DC-05-ED (hex) Nabtesco Corporation
DC05ED (base 16) Nabtesco Corporation
9-18, Kaigan 1-chome
Minato-ku Tokyo 105-0022
JP

E0-F2-11 (hex) Digitalwatt
E0F211 (base 16) Digitalwatt
Via Dante, 18
Renate Brianza MB 20055
IT

DC-A7-D9 (hex) Compressor Controls Corp
DCA7D9 (base
16) Compressor Controls Corp
4725 121st Street
Des Moines Iowa 50323
US

38-FE-C5 (hex) Ellips B.V.
38FEC5 (base 16) Ellips B.V.
Esp 300
Eindhoven Noord-Brabant 5633 AE
NL

C4-55-A6 (hex) Cadac Holdings Ltd
C455A6 (base 16) Cadac Holdings Ltd
1 New Street
Luton Bedfordshire LU1 5DX
GB

5C-77-57 (hex) Haivision Network Video
5C7757 (base 16) Haivision Network Video
4445 Garand
Montreal QC H4R 2H9
CA

D4-D8-98 (hex) Korea CNO Tech Co., Ltd
D4D898 (base 16) Korea CNO Tech Co., Ltd
#240-1,Uigok-Ri
Mungyeong-Si Gyeongsangbuk-do 745-853

KR

B4-AA-4D (hex) Ensequence, Inc.
B4AA4D (base 16) Ensequence, Inc.
111 SW 5th Ave Suite 1400
Portland OR 97204
US

60-F5-9C (hex) CRU-Dataport
60F59C (base 16) CRU-Dataport
1000 SE Tech Center Drive
Vancouver WA 98683
US

B0-A7-2A (hex) Ensemble Designs, Inc.
B0A72A (base 16) Ensemble Designs, Inc.
870
Gold Flat Road
Nevada City CA 95959
US

64-00-F1 (hex) Cisco Systems, Inc
6400F1 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

F8-69-71 (hex) Seibu Electric Co.,
F86971 (base 16) Seibu Electric Co.,
1458-7
Hachioji Tokyo 193-0941
JP

B8-F4-D0 (hex) Herrmann Ultraschalltechnik GmbH & Co. Kg
B8F4D0 (base 16) Herrmann Ultraschalltechnik GmbH & Co. Kg
Descostraße 3-9
Karlsbad Baden-Württemberg 76307
DE

08-AC-A5 (hex) Benu Video, Inc.
08ACA5 (base 16) Benu Video, Inc.
300 Concord Rd., Suite #110
Billerica MA 01821
US

58-6D-8F (hex) Cisco-Linksys, LLC
586D8F (base 16) Cisco-Linksys, LLC
121 Theory Drive

Irvine California 92612
US

CC-1E-FF (hex) Metrological Group BV
CC1EFF (base 16) Metrological Group BV
Mariniersweg 151
Rotterdam Zuid-Holland 3011NK
NL

18-4E-94 (hex) MESSOA TECHNOLOGIES INC.
184E94 (base 16) MESSOA
TECHNOLOGIES INC.
13611 12th St., Unit B
Chino CA 91710
US

40-55-39 (hex) Cisco Systems, Inc
405539 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

74-65-D1 (hex) Atlinks
7465D1 (base 16) Atlinks
30 Avenue Geroge V
Paris 75008
FR

44-AA-27 (hex) udworks Co., Ltd.
44AA27 (base 16) udworks Co., Ltd.
#810, Byuksan3cha Digital Valley, 212-13, Guro-dong, Guro-gu
Seoul 152-775
KR

E8-F9-28 (hex) RFTECH SRL
E8F928 (base 16) RFTECH SRL
VIA VENETO, 22
SCHIO VICENZA 36015
IT

1C-95-5D (hex) I-LAX ELECTRONICS INC.
1C955D (base 16) I-LAX ELECTRONICS INC.
2283 ARGENTIA RD.- UNIT # 10
MISSISSAUGA ON. L5N 5Z2
CA

04-0A-83 (hex) Alcatel-Lucent
040A83 (base 16) Alcatel-Lucent

Via Trento, 30
Vimenrcate MB 2059
IT

C4-56-00 (hex) Galleon Embedded Computing
C45600 (base 16) Galleon Embedded Computing
Grenseveien 97c
Oslo
Oslo N-0602
NO

10-E3-C7 (hex) Seohwa Telecom
10E3C7 (base 16) Seohwa Telecom
678 Seohwa Bldg
Gasan-Dong, Gumcheon-Gu Seoul 153-803
KR

D0-A3-11 (hex) Neuberger Gebäudeautomation GmbH
D0A311 (base 16) Neuberger Gebäudeautomation GmbH
Oberer Kaiserweg 6
Rothenburg o.d.T. Bayern 91541
DE

04-1D-10 (hex) Dream Ware Inc.
041D10 (base 16) Dream Ware Inc.
5-23-7 Masugata, Tama-ku,
Kawasaki Kanagawa 214-0032
JP

80-14-40 (hex) Sunlit System Technology Corp
801440 (base 16) Sunlit System Technology Corp
8F, No.19,Lane 120, Sec1, Neihu Rd.
Tapiei 114
TW

88-DD-79 (hex) Voltaire
88DD79 (base 16) Voltaire
13, Zarchin St
Raanana 43662
IL

58-EE-CE (hex) Icon Time Systems
58EECE (base 16) Icon Time Systems
15201 NW Greenbrier Parkway
Beaverton OR 97006
US

64-7F-DA (hex) TEKTELIC Communications Inc.

647FDA (base 16) TEKTELIC Communications Inc.
7657
10th Street NE
Calgary Alberta T2E 8X2
CA

AC-06-13 (hex) Senselogix Ltd
AC0613 (base 16) Senselogix Ltd
56 Carlton Court, Ford William Morgan
St. Asaph Debighshire LL17 0JG
GB

74-78-18 (hex) Jurumani Solutions
747818 (base 16) Jurumani Solutions
321 14th Road
Midrand 1685
ZA

18-0B-52 (hex) Nanotron Technologies GmbH
180B52 (base 16) Nanotron Technologies GmbH
Alt-Moabit 60
Berlin 10555
DE

DC-07-C1 (hex) HangZhou QiYang Technology Co.,Ltd.
DC07C1 (base 16) HangZhou QiYang Technology Co.,Ltd.
Floor 5, Building 2, Road XiYuanYi, WestLake Technology Park,
HangZhou ZheJiang 310028
CN

A8-1B-18 (hex) XTS CORP
A81B18 (base 16) XTS CORP
10125 NW 116TH WAY, SUITE 5
MEDLEY FLORIDA 33178
US

C0-A2-6D (hex) Abbott Point of Care
C0A26D (base 16) Abbott Point of Care
400 College Road East
Princeton NJ 08540
US

00-BB-8E (hex) HME Co., Ltd.
00BB8E
(base 16) HME Co., Ltd.
No.200 , Liao Bei Str.,San Min Dist.,
Kaohsiung 807
TW

D8-2A-7E (hex) Nokia Corporation
D82A7E (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

80-1F-02 (hex) Edimax Technology Co. Ltd.
801F02 (base 16) Edimax Technology Co. Ltd.
No. 278, Xinhu 1st Road
Taipei City Neihu Dist 248
TW

44-25-BB (hex) Bamboo Entertainment Corporation
4425BB (base 16) Bamboo Entertainment Corporation
179 South Street
Boston MA 02111
US

E0-0C-7F (hex) Nintendo Co., Ltd.
E00C7F (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

E4-8A-D5 (hex) RF WINDOW CO., LTD.
E48AD5 (base 16) RF WINDOW CO., LTD.
14F, Daerung Posttower3
Seoul 152-746
KR

44-37-19 (hex) 2 Save Energy Ltd
443719 (base 16) 2 Save Energy Ltd
The Annexe, Field House Barn
Sherborne St John Hampshire RG24 9LR
GB

84-EA-99
(hex) Vieworks
84EA99 (base 16) Vieworks
6F Suntechcity 2,307-2 Sangdaewon-dong, Jungwon-gu
Seongnam Gyeonggi 462-806
KR

BC-3E-13 (hex) Accordance Systems Inc.
BC3E13 (base 16) Accordance Systems Inc.
2F, No. 31, Sec. 6, Hsin Yi Road
Taipei 11085

TW

FC-F1-CD (hex) OPTEX-FA CO.,LTD.
FCF1CD (base 16) OPTEX-FA CO.,LTD.
91 Awata-cho
Kyoto 600-8815
JP

94-CD-AC (hex) Creowave Oy
94CDAC (base 16) Creowave Oy
Lentokatu 2
Oulunsalo FIN-90460
FI

7C-DA-84 (hex) Dongnian Networks Inc.
7CDA84 (base 16) Dongnian Networks Inc.
90 Wensan Road, Building 8-A303
Hangzhou Zhejiang 310012
CN

BC-C6-1A (hex) SPECTRA EMBEDDED SYSTEMS
BCC61A (base 16) SPECTRA EMBEDDED SYSTEMS
Khasra No. 24, Village Ghumman,1st Floor, Chawla Mansion,
Parwanoo Himachal Pradesh 173 220
IN

04-70-BC (hex) Globalstar Inc.
0470BC (base 16) Globalstar Inc.
461 S Milpitas
Blvd
Milpitas CA 95035
US

FC-35-98 (hex) Favite Inc.
FC3598 (base 16) Favite Inc.
No.19, Lane 78, Yanhe St.,
Jhubei City Hsinchu County 302
TW

90-D9-2C (hex) HUG-WITSCHI AG
90D92C (base 16) HUG-WITSCHI AG
Auriedstrasse 10
Boesingen Fribourg 3178
CH

98-94-49 (hex) Skyworth Wireless Technology Ltd.
989449 (base 16) Skyworth Wireless Technology Ltd.
Unit A Rm.3A01, Skyworth Bldg., Gaoxin Ave. 1.S.,

Nanshan District Shenzhen 518057
CN

2C-A1-57 (hex) acromate, Inc.
2CA157 (base 16) acromate, Inc.
#1101, JnK Digital Tower, 111
Seoul 152-848
KR

94-20-53 (hex) Nokia Corporation
942053 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

D4-E3-2C (hex) S. Siedle & Sohne
D4E32C (base 16) S. Siedle & Sohne
Bregstrasse 1
Furtwangen D-78120
DE

64-F9-87 (hex) Avvasi Inc.
64F987 (base 16) Avvasi Inc.
103 Randall Dr.
Waterloo
ON N2V 1C5
CA

90-2E-87 (hex) LabJack
902E87 (base 16) LabJack
3232 S Vance St STE 100
Lakewood CO 80227
US

7C-6A-DB (hex) SafeTone Technology Co.,Ltd
7C6ADB (base 16) SafeTone Technology Co.,Ltd
Room 323,ZhuouJi Plaza,No.16 AnDe Road,East District,
Beijing 100011
CN

A4-24-B3 (hex) FlatFrog Laboratories AB
A424B3 (base 16) FlatFrog Laboratories AB
Magistratsvägen 10
Lund Skåne 22643
SE

14-4C-1A (hex) Max Communication GmbH
144C1A (base 16) Max Communication GmbH

Siemensstrasse 47
Rellingen 25462
DE

D8-5D-84 (hex) CAx soft GmbH
D85D84 (base 16) CAx soft GmbH
Noettinger Strasse 3
Karlsbad BW 76307
DE

B8-BA-68 (hex) Xi'an Jizhong Digital Communication Co.,Ltd
B8BA68 (base 16) Xi'an Jizhong Digital Communication Co.,Ltd
10 Block NO.1 Enterprise Newly-typed Industrial Zone High-Tech Zone XiÂ¡Â¯an,China
Xi'an ShaanXi 710119
CN

B0-B3-2B (hex) Slican
Sp. z o.o.
B0B32B (base 16) Slican Sp. z o.o.
M. Konopnickiej 18
Bydgoszcz Kujawsko-Pomorskie 85-124
PL

58-42-E4 (hex) Baxter International Inc
5842E4 (base 16) Baxter International Inc
One Baxter Parkway
Deerfield IL 60015
US

CC-9E-00 (hex) Nintendo Co., Ltd.
CC9E00 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

F0-5D-89 (hex) Dycon Limited
F05D89 (base 16) Dycon Limited
Unit D
Mountain Ash Rhondda Cynon Taff CF45 4ER
GB

9C-F9-38 (hex) AREVA NP GmbH
9CF938 (base 16) AREVA NP GmbH
Seligenstaedter Str. 100
Karlstein Germany 63791
DE

8C-DB-25 (hex) ESG Solutions

8CDB25 (base 16) ESG Solutions
20 Hyperion Court
Kingston Ontario K7K 7K2
CA

58-A7-6F (hex) iD corporation
58A76F (base 16) iD corporation
goryokaku bld. 2F
hakodate hokkaido 040-0011
JP

00-06-F6 (hex) Cisco Systems,
Inc
0006F6 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

74-7D-B6 (hex) Aliwei Communications, Inc
747DB6 (base 16) Aliwei Communications, Inc
Keji 6 Road , Hi-tech Industrial Park
Shenzhen Guangdong 518057
CN

B0-65-63 (hex) Shanghai Railway Communication Factory
B06563 (base 16) Shanghai Railway Communication Factory
No.179 West Jiangchang road
Shanghai 200436
CN

AC-6F-4F (hex) Enspert Inc
AC6F4F (base 16) Enspert Inc
2F., Daehwa B/D,
Seoul 135090
KR

E8-28-77 (hex) TMY Co., Ltd.
E82877 (base 16) TMY Co., Ltd.
Attic Bldg. 3F, 1-2-10 Ise-cho,
Ashikaga-shi Tochigi 326-0053
JP

6C-2E-33 (hex) Accelink Technologies Co.,Ltd.
6C2E33 (base 16) Accelink Technologies Co.,Ltd.
88 Youkeyuan Road,
Wuhan Hubei 430074
CN

40-98-7B (hex) Aisino Corporation
40987B (base 16) Aisino Corporation
No.18 A,Xingshikou Road,Haidian District,
Beijing
100195
CN

BC-38-D2 (hex) Pandachip Limited
BC38D2 (base 16) Pandachip Limited
Unit 210, 2/F (Lakeside 1), Building 15, No. 8 Science Park West Avenue
Shatin, N.T.
HK

98-8E-34 (hex) ZHEJIANG BOXSAM ELECTRONIC CO.,LTD
988E34 (base 16) ZHEJIANG BOXSAM ELECTRONIC CO.,LTD
No.288,LONGTAN ROAD,
JINHUA CITY ZHEJIANG PROVINCE, 321017
CN

C4-71-FE (hex) Cisco Systems, Inc
C471FE (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

34-08-04 (hex) D-Link Corporation
340804 (base 16) D-Link Corporation
No.289, Sinhu 3rd Rd., Neihu District,
Taipei City 114
TW

F0-C8-8C (hex) LeddarTech Inc.
F0C88C (base 16) LeddarTech Inc.
2740 Einstein Street
Quebec City G1P 4S4
CA

40-18-D7 (hex) Smartronix, Inc.
4018D7 (base 16) Smartronix, Inc.
44150 Smartronix Way
Hollywood MD 20636
US

40-22-ED (hex) Digital Projection Ltd
4022ED
(base 16) Digital Projection Ltd
Greenside Way
Manchester Lancs M24 1XX

GB

28-85-2D (hex) Touch Networks
28852D (base 16) Touch Networks
2515 152nd Ave NE
Redmond Washington 98052
US

48-6B-91 (hex) Fleetwood Group Inc.
486B91 (base 16) Fleetwood Group Inc.
11832 James St
Holland Michigan 49424
US

40-37-AD (hex) Macro Image Technology, Inc.
4037AD (base 16) Macro Image Technology, Inc.
East Bldg., 6th Floor, IT Venture Tower,
Seoul 138-950
KR

28-ED-58 (hex) JAG Jakob AG
28ED58 (base 16) JAG Jakob AG
Industriestrasse 20
BRUEGG BE 2555
CH

B8-79-7E (hex) Secure Meters (UK) Limited
B8797E (base 16) Secure Meters (UK) Limited
Secure House
Winchester Hampshire SO23 7RX
GB

E8-75-7F (hex) FIRS Technologies(Shenzhen) Co., Ltd
E8757F (base 16) FIRS Technologies(Shenzhen) Co., Ltd
Rm 12A, Area A, Hongsong Business Building, Tairan 9th Rd, Chegongmiao,

Shenzhen Guangdong 518040
CN

F0-F7-B3 (hex) Phorm
F0F7B3 (base 16) Phorm
222 Regent Street
London W1B 5TR
GB

00-D3-8D (hex) Hotel Technology Next Generation
00D38D (base 16) Hotel Technology Next Generation
650 E. Algonquin Road

Schaumburg IL 60173
US

C8-3E-A7 (hex) KUNBUS GmbH
C83EA7 (base 16) KUNBUS GmbH
Heerweg 15C
Denkendorf BW D-73770
DE

64-34-09 (hex) BITwave Pte Ltd
643409 (base 16) BITwave Pte Ltd
2 Serangoon North Ave 5
554911
SG

74-CD-0C (hex) Smith Myers Communications Ltd.
74CD0C (base 16) Smith Myers Communications Ltd.
The Omega Centre
Biggleswade BEDS SG18 8QB
GB

CC-CE-40 (hex) Janteq Corp
CCCE40 (base 16) Janteq Corp
9272 Jeronimo Road
Irvine CA 92618
US

B8-EE-79 (hex) YWire Technologies, Inc.
B8EE79 (base 16) YWire Technologies, Inc.
1372 Overdale
Montreal QC H3G 1V3
CA

40-C2-45 (hex) Shenzhen
Hexicom Technology Co., Ltd.
40C245 (base 16) Shenzhen Hexicom Technology Co., Ltd.
1510 West Building,Nanshan Software Park, Nanshan Dist.
Shenzhen Guangdong 518053
CN

CC-55-AD (hex) RIM
CC55AD (base 16) RIM
Phillip Street
Waterloo Ontario N2L 3W8
CA

60-89-3C (hex) Thermo Fisher Scientific P.O.A.
60893C (base 16) Thermo Fisher Scientific P.O.A.

46 Jonspin Rd.
Wilmington MA 01887
US

D8-6B-F7 (hex) Nintendo Co., Ltd.
D86BF7 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

20-05-E8 (hex) OOO InProMedia
2005E8 (base 16) OOO InProMedia
pr.4806, d.6
Zelenograd Moscow 124466
RU

F0-02-48 (hex) SmarteBuilding
F00248 (base 16) SmarteBuilding
3267 Bee Cave Road
Austin TX 78746
US

4C-2C-80 (hex) Beijing Skyway Technologies Co.,Ltd
4C2C80 (base 16) Beijing Skyway Technologies Co.,Ltd
No.5 Jiangtai Road,

Beijing 100015
CN

D4-9E-6D (hex) Wuhan Zhongyuan Huadian Science & Technology Co.,
D49E6D (base 16) Wuhan Zhongyuan Huadian Science & Technology Co.,
NO.6, 6 Road, Sci. & Tech. region of HUST, East Lake Development Zone,
Wuhan Hubei 430223
CN

60-63-FD (hex) Transcend Communication Beijing Co.,Ltd.
6063FD (base 16) Transcend Communication Beijing Co.,Ltd.
A-6,Keshi plaza,28#,Information Road
Beijing 100085
CN

74-BE-08 (hex) ATEK Products, LLC
74BE08 (base 16) ATEK Products, LLC
210 NE 10th Avenue
Brainerd MN 56401
US

74-D6-75 (hex) WYMA Tecnologia

74D675 (base 16) WYMA Tecnologia
Rua Clímaco Barbosa, 171-179
São Paulo 01523-000
BR

B4-0E-DC (hex) LG-Ericsson Co.,Ltd.
B40EDC (base 16) LG-Ericsson Co.,Ltd.
533,Hogye-1dong,Dongan-gu
Anyang-shi Kyungki-do 431-749
KR

E0-EE-1B (hex) Panasonic Automotive Systems Company of America
E0EE1B (base 16) Panasonic
Automotive Systems Company of America
776 Highway 74 South
Peachtree City Georgia 30269
US

10-0C-24 (hex) pomdevices, LLC
100C24 (base 16) pomdevices, LLC
178 Colvard Park Dr
Durham NC 27713
US

58-F6-BF (hex) Kyoto University
58F6BF (base 16) Kyoto University
Yoshida-Hommachi
Kyoto 6068501
JP

84-97-B8 (hex) Memjet Inc.
8497B8 (base 16) Memjet Inc.
15920 Bernardo Center Drive
San Diego CA 92127
US

A0-DD-E5 (hex) SHARP Corporation
A0DDE5 (base 16) SHARP Corporation
22-22,Nagaike-cho
Osaka city Osaka prefecture 545-8522
JP

AC-34-CB (hex) Shanhai GBCOM Communication Technology Co. Ltd
AC34CB (base 16) Shanhai GBCOM Communication Technology Co. Ltd
Room 602, Building 6, No.555 Dongchuan Road
Shanghai 200241
CN

90-88-A2 (hex) IONICS TECHNOLOGY ME LTDA
9088A2 (base 16) IONICS TECHNOLOGY ME LTDA
RUA DEP. ANTONIO EDU VIEIRA
FLORIAN POLIS SANTA CATARINA
88040000
BR

00-33-6C (hex) SynapSense Corporation
00336C (base 16) SynapSense Corporation
2365 Iron Point Road, Suite 100
Folsom CA 95630
US

74-A4-A7 (hex) QRS Music Technologies, Inc.
74A4A7 (base 16) QRS Music Technologies, Inc.
269 Quaker Drive
Seneca PA 16346
US

40-CD-3A (hex) Z3 Technology
40CD3A (base 16) Z3 Technology
2720 Harrison St
Evanston IL 60201
US

48-2C-EA (hex) Motorola Inc Business Light Radios
482CEA (base 16) Motorola Inc Business Light Radios
8000 W Sunrise Boulevard
Plantation Florida 33324
US

D8-B6-C1 (hex) NetworkAccountant, Inc.
D8B6C1 (base 16) NetworkAccountant, Inc.
12101 Tukwila International Blvd.
Seattle Washington 98168
US

AC-61-23 (hex) Drivven, Inc.
AC6123 (base 16) Drivven, Inc.
12001 Network Boulevard
San Antonio TX 78249
US

F8-66-F2 (hex) Cisco Systems, Inc
F866F2 (base 16) Cisco Systems, Inc
80
West Tasman Drive
San Jose CA 94568

US

20-6A-FF (hex) Atlas Elektronik UK Limited
206AFF (base 16) Atlas Elektronik UK Limited
A22 Buliding, Dorset Green Tech. Park
Dorchester Dorset DT2 8ZB
GB

F4-55-E0 (hex) Niceway CNC Technology Co.,Ltd.Hunan Province
F455E0 (base 16) Niceway CNC Technology Co.,Ltd.Hunan Province
5/F,Innovation-Undertaking Center,HuanBao Industrial Park,199#,ZhenHua Road,
Changsha Hunan 410116
CN

20-FD-F1 (hex) 3COM EUROPE LTD
20FDF1 (base 16) 3COM EUROPE LTD
Peoplebuilding 2
Hemel Hempstead HERTS. HP2 4NW
GB

A4-21-8A (hex) Nortel Networks
A4218A (base 16) Nortel Networks
CARRETERA BASE AEREA # 5850
Zapopan Jalisco 44130
MX

0C-15-C5 (hex) SDTEC Co., Ltd.
0C15C5 (base 16) SDTEC Co., Ltd.
167, Churye-2Dong, Sasang-Gu,
Busan 617-716
KR

F8-FB-2F (hex) Santur Corporation
F8FB2F (base 16) Santur Corporation
40931 Encyclopedia Circle
Fremont
California 94538
US

2C-CD-43 (hex) Summit Technology Group
2CCD43 (base 16) Summit Technology Group
145 Belmont Drive
Somerset NJ 08873
US

EC-23-68 (hex) IntelliVoice Co.,Ltd.
EC2368 (base 16) IntelliVoice Co.,Ltd.
3-6 Kioicho

Chiyoda Tokyo 102-0094
JP

74-90-50 (hex) Renesas Electronics Corporation
749050 (base 16) Renesas Electronics Corporation
1753, Shimonumabe, Nakahara-Ku
Kawasaki Kanagawa 211-8668
JP

7C-EF-18 (hex) Creative Product Design Pty. Ltd.
7CEF18 (base 16) Creative Product Design Pty. Ltd.
82 Victoria Street
Sandringham Victoria 3191
AU

64-99-5D (hex) LGE
64995D (base 16) LGE
60-39 , Kasan -dong , Gumcheon-gu.
Seoul 153-801
KR

FC-7C-E7 (hex) FCI USA LLC
FC7CE7 (base 16) FCI USA LLC
825 Old Trail Road
Etters PA 17319
US

14-54-12 (hex) Entis Co., Ltd.
145412 (base 16) Entis Co., Ltd.
2-20-6, Hanaoka
Bldg, 6F
Tokyo 1030007
JP

78-EC-22 (hex) Shanghai Qihui Telecom Technology Co., LTD
78EC22 (base 16) Shanghai Qihui Telecom Technology Co., LTD
Room 501, No 2 BoYun Rd, PuDong New Area,
Shanghai 201203
CN

70-02-58 (hex) 01DB-METRAVIB
700258 (base 16) 01DB-METRAVIB
200 CHEMIN DES ORMEAUX
LIMONEST CEDEX RHONE 69578
FR

FC-75-E6 (hex) Handreamnet
FC75E6 (base 16) Handreamnet

#1209 MarioTower, 222-12, Guro-Dong, Guro-Gu
Seoul Guro-Gu 152-848
KR

24-45-97 (hex) GEMUE Gebr. Mueller Apparatebau
244597 (base 16) GEMUE Gebr. Mueller Apparatebau
Fritz-Mueller-Strasse 6-8
Ingelfingen Criesbach 74653
DE

78-81-8F (hex) Server Racks Australia Pty Ltd
78818F (base 16) Server Racks Australia Pty Ltd
4 - 6 Endurance Ave
Queanbeyan NSW 2620
AU

28-48-46 (hex) GridCentric Inc.
284846 (base 16) GridCentric Inc.
350 Bloor St. E
Toronto Ontario M4W 0A1
CA

30-69-4B
(hex) RIM
30694B (base 16) RIM
295 Phillip Street
Waterloo Ontario N2L 3W8
CA

EC-FE-7E (hex) BlueRadios, Inc.
ECFE7E (base 16) BlueRadios, Inc.
7173 S. Havana Street, Suite 600
Englewood Colorado 80112
US

E4-AD-7D (hex) SCL Elements
E4AD7D (base 16) SCL Elements
5800 St-Denis, #222
Montreal Quebec H2S3l5
CA

F0-9C-BB (hex) RaonThink Inc.
F09CBB (base 16) RaonThink Inc.
916, Byucksan Digital Valley 2-Cha, 481-10, Kasan-Dong, Kumcheon-Gu,
Seoul 153-783
KR

80-EE-73 (hex) Shuttle Inc.

80EE73 (base 16) Shuttle Inc.
No. 30 Lane 76, Rei Kuang Rd
Taipei 114
TW

FC-E2-3F (hex) CLAY PAKY SPA
FCE23F (base 16) CLAY PAKY SPA
Via Pastrengo 3/b
Seriate Bergamo 24068
IT

BC-A9-D6 (hex) Cyber-Rain, Inc.
BCA9D6 (base 16) Cyber-Rain, Inc.
5272 Evanwood Avenue
Oak Park California 91377-4809
US

3C-10-6F (hex) ALBAHITH TECHNOLOGIES
3C106F
(base 16) ALBAHITH TECHNOLOGIES
165, King Abdullah Second Street
Amman 11953
JO

D8-71-57 (hex) Lenovo Mobile Communication Technology Ltd.
D87157 (base 16) Lenovo Mobile Communication Technology Ltd.
No.999,Qishan North 2nd Road,Information&Optoelectronics Park,Torch Hi-tech Industry Development Zone,
Xiamen Fujian 361006
CN

C0-0D-7E (hex) Additech, Inc.
C00D7E (base 16) Additech, Inc.
10925 Kinghurst
Houston TX 77099
US

84-C7-A9 (hex) C3PO S.A.
84C7A9 (base 16) C3PO S.A.
Alejandro Goicoechea 6 Local 9
Sant Just Desvern Barcelona ES08960
ES

60-9A-A4 (hex) GVI SECURITY INC.
609AA4 (base 16) GVI SECURITY INC.
2801 TRADE CENTER DR STE.120
CARROLLTON TX 75007
US

64-10-84 (hex) HEXIUM Technical Development Co., Ltd.
641084 (base 16) HEXIUM Technical Development Co., Ltd.
Vaci ut 51b
BUDAPEST H-1134
HU

6C-62-6D (hex) Micro-Star INT'L CO., LTD
6C626D
(base 16) Micro-Star INT'L CO., LTD
No.69, Lide St., Jhonghe City
Taipei Conuty 235
TW

28-06-8D (hex) ITL, LLC
28068D (base 16) ITL, LLC
P.O. Box 41875
Nashville TN 37204
US

34-21-09 (hex) Jensen Scandinavia AS
342109 (base 16) Jensen Scandinavia AS
Balder Allé 3
Jessheim 2050
NO

7C-3E-9D (hex) PATECH
7C3E9D (base 16) PATECH
#23-17. WonhyoRo-2Ga
YongSan-Gu Seoul 140112
KR

58-57-0D (hex) Danfoss Solar Inverters
58570D (base 16) Danfoss Solar Inverters
Jyllandsgade 28
Sønderborg DK-6400
DK

10-CC-DB (hex) AXIMUM PRODUITS ELECTRONIQUES
10CCDB (base 16) AXIMUM PRODUITS ELECTRONIQUES
ZI DELTA INDUSTRIE
MARSEILLE CEDEX 11 13368
FR

38-C7-BA (hex) CS Services Co.,Ltd.
38C7BA (base 16) CS Services Co.,Ltd.
Imon BLDG 95 Edomachi
Kobe Hyogo 6500033
JP

8C-D6-28 (hex) Ikor Metering
8CD628 (base 16) Ikor Metering
Francisco Grandmontagne
4
San Sebastian Guipuzcoa 20008
ES

24-3C-20 (hex) Dynamode Group
243C20 (base 16) Dynamode Group
Head Office, 132a St Albans Road
Watford Herts WD24 4AE
GB

48-1B-D2 (hex) Intron Scientific co., ltd.
481BD2 (base 16) Intron Scientific co., ltd.
6F., NO. 136,Sec 2,Keelung Rd., Da-an district
Taipei 106
TW

F0-43-35 (hex) DVN(Shanghai)Ltd.
F04335 (base 16) DVN(Shanghai)Ltd.
11F,Hechuan Building,2016 Yishan Rd,
Shanghai 201103
CN

A4-79-E4 (hex) KLINFO Corp
A479E4 (base 16) KLINFO Corp
301 923 wolpyung-dong
Daejeon 302-852
KR

EC-5C-69 (hex) MITSUBISHI HEAVY INDUSTRIES MECHATRONICS SYSTEMS,LTD.
EC5C69 (base 16) MITSUBISHI HEAVY INDUSTRIES MECHATRONICS SYSTEMS,LTD.
1-16,5-CHOME,KOMATSU-DORI,
KOBE HYOGO 652-0865
JP

6C-92-BF (hex) Inspur Electronic Information Industry Co.,Ltd.
6C92BF (base 16) Inspur Electronic Information Industry Co.,Ltd.
No 224 Shanda
Road
Jinan Shandong 250013
CN

8C-54-1D (hex) LGE
8C541D (base 16) LGE
60-39 , Kasan -dong , Gumcheon-gu.

Seoul 153-801
KR

00-A2-DA (hex) INAT GmbH
00A2DA (base 16) INAT GmbH
Ostendstraße 50A
Nuremberg Bavaria 90482
DE

6C-3E-9C (hex) KE Knestel Elektronik GmbH
6C3E9C (base 16) KE Knestel Elektronik GmbH
Osterwalder Str. 12
Hopferbach Bavaria 87496
DE

44-A8-C2 (hex) SEWOO TECH CO., LTD
44A8C2 (base 16) SEWOO TECH CO., LTD
689-20 GEUMJUNG-DONG
GUNPO-SI KYUNGGI-DO 435-862
KR

D0-F0-DB (hex) Ericsson
D0F0DB (base 16) Ericsson
250 Holger Way
SAN JOSE CA 95134
US

7C-14-76 (hex) Damall Technologies SAS
7C1476 (base 16) Damall Technologies SAS
Corso della Repubblica 65
Fabriano Ancona 60044
IT

C4-82-3F (hex) Fujian Newland Auto-ID Tech. Co,.Ltd.
C4823F (base 16) Fujian Newland Auto-ID Tech. Co,.Ltd.
Newland Science & Technology
Park, No.1 Rujiang West Rd., Mawei
Fuzhou Fujian 350015
CN

E8-5B-5B (hex) LG ELECTRONICS INC
E85B5B (base 16) LG ELECTRONICS INC
19-1, CHEONGHO-RI, JINWI-MYEON
PYEONGTAEK GYEONGGI-DO 451-713
KR

00-3C-C5 (hex) WONWOO Engineering Co., Ltd
003CC5 (base 16) WONWOO Engineering Co., Ltd

7F 201, Techno-Park SsangYong III,
Bucheon City Gyeonggi-Do 421-808
KR

88-4B-39 (hex) Siemens AG, Healthcare Sector
884B39 (base 16) Siemens AG, Healthcare Sector
Henkestrasse 127
Erlangen Bavaria 91052
DE

D8-28-C9 (hex) General Electric Consumer and Industrial
D828C9 (base 16) General Electric Consumer and Industrial
AP35-1405
Louisville KY 40225
US

44-C2-33 (hex) Guangzhou Comet Technology Development Co.Ltd
44C233 (base 16) Guangzhou Comet Technology Development Co.Ltd
Rm 304,FL 3,Block G,Science and Technology Innovation Base,
Guangzhou Guangdong 510663
CN

E4-35-93 (hex) Hangzhou
GoTo technology Co.Ltd
E43593 (base 16) Hangzhou GoTo technology Co.Ltd
Room 1303,Boee buliding,3760 Nanhuan Road, Binjiang,
Hangzhou Zhejiang 310053
CN

2C-3A-28 (hex) Fagor Electrónica
2C3A28 (base 16) Fagor Electrónica
B. San Andres, s/n
Mondragón Guipuzcoa 20500
ES

7C-2C-F3 (hex) Secure Electrans Ltd
7C2CF3 (base 16) Secure Electrans Ltd
Pioneer House, Pioneer Business Park
Ellesmere Port CH65 1AD
GB

08-16-51 (hex) SHENZHEN SEA STAR TECHNOLOGY CO.,LTD
081651 (base 16) SHENZHEN SEA STAR TECHNOLOGY CO.,LTD
Seastar industrial Park, BaoLong 6th Ave
ShenZhen GuangDong 518116
CN

30-41-74 (hex) ALTEC LANSING LLC

304174 (base 16) ALTEC LANSING LLC
535 ROUTES 6 & 209
MILFORD PA 18337
US

3C-39-C3 (hex) JW Electronics Co., Ltd.
3C39C3 (base 16) JW Electronics Co., Ltd.
3A17, No. 5 Hsin-yi Rd., Sec. 5
Taipei 110
TW

3C-05-AB (hex) Product Creation Studio
3C05AB
(base 16) Product Creation Studio
425 Westlake Ave N
Seattle WA 98109
US

30-EF-D1 (hex) Alstom Strongwish (Shenzhen) Co., Ltd.
30EFD1 (base 16) Alstom Strongwish (Shenzhen) Co., Ltd.
5F,Building No.6, Keji Middle 2 Road High-Tech Industrial Park,
Shen Zhen Guangdong 518057
CN

D4-1F-0C (hex) JAI Manufacturing
D41F0C (base 16) JAI Manufacturing
2960-14 Uenojo Nishikata
Kushima Miyazaki 888-0004
JP

80-F5-93 (hex) IRCO Sistemas de Telecomunicación S.A.
80F593 (base 16) IRCO Sistemas de Telecomunicación S.A.
Via Sergia 98
Mataró Barcelona 08302
ES

EC-DE-3D (hex) Lamprey Networks, Inc.
ECDE3D (base 16) Lamprey Networks, Inc.
58 Dover Road
Durham NH 03824
US

6C-FF-BE (hex) MPB Communications Inc.
6CFFBE (base 16) MPB Communications Inc.
147 Hymus Blvd
Pointe-Claire Quebec H9R 1E9
CA

E4-97-F0 (hex) Shanghai VLC Technologies Ltd. Co.
E497F0 (base
16) Shanghai VLC Technologies Ltd. Co.
Room 901, B-Zone, East Beijing Road
Shanghai 200001
CN

B4-08-32 (hex) TC Communications
B40832 (base 16) TC Communications
17575 Cartwright Road
Irvine CA 92614
US

88-FD-15 (hex) LINEEYE CO., LTD
88FD15 (base 16) LINEEYE CO., LTD
5F Marufuku Bldg. 39-1 Karahashi
Kyoto 601-8468
JP

A8-63-DF (hex) DISPLAIRE CORPORATION
A863DF (base 16) DISPLAIRE CORPORATION
1300 Valley House Dr, Ste 100
Rohnert Park CA 94928
US

18-3B-D2 (hex) BYD Precision Manufacture Company Ltd.
183BD2 (base 16) BYD Precision Manufacture Company Ltd.
No3000 LongDong Avenue, Pudong District
Shanghai 201203
CN

4C-C6-02 (hex) Radios, Inc.
4CC602 (base 16) Radios, Inc.
31355 State Road 46
Sorrenot Floriad 32776
US

B4-58-61 (hex) CRemote, LLC
B45861 (base 16) CRemote, LLC
1195 Noel Drive
MENLO PARK CA 94025
US

B0-97-3A (hex) E-Fuel
Corporation
B0973A (base 16) E-Fuel Corporation
15466 Los Gatos Blvd. #37
Los Gatos CA 95032

US

20-4E-6B (hex) Axxana(israel) ltd
204E6B (base 16) Axxana(israel) ltd
Habarzel 38
Tel aviv 69710
IL

F0-77-D0 (hex) Xcellen
F077D0 (base 16) Xcellen
15F KINS Tower 25-1,Jeongja-dong,Bungdang-gu,
Seongnam Gyeonggi 463811
KR

80-B2-89 (hex) Forworld Electronics Ltd.
80B289 (base 16) Forworld Electronics Ltd.
No.16 Keyuan 2nd Rd., Situn District
Taichung City 886
TW

E8-3A-97 (hex) Toshiba Corporation
E83A97 (base 16) Toshiba Corporation
1-1-1, Shibaura, Minato-ku
Tokyo 00000
JP

10-56-CA (hex) Peplink International Ltd.
1056CA (base 16) Peplink International Ltd.
17/F, Park Building,
Cheung Sha Wan
HK

D4-9C-28 (hex) JayBird LLC
D49C28 (base 16) JayBird LLC
3676 California Ave
Salt Lake City UT 84104
US

48-6F-D2 (hex) StorSimple
Inc
486FD2 (base 16) StorSimple Inc
2350 Mission College Blvd
Santa Clara CA 95054
US

A0-3A-75 (hex) PSS Belgium N.V.
A03A75 (base 16) PSS Belgium N.V.
Hoogveld 50

Dendermonde 9200
BE

24-DB-AD (hex) ShopperTrak RCT Corporation
24DBAD (base 16) ShopperTrak RCT Corporation
200 W. Monroe Street
Chicago IL 60606
US

04-0E-C2 (hex) ViewSonic Mobile China Limited
040EC2 (base 16) ViewSonic Mobile China Limited
Room 601, The Gate Tower B, No.19, Zhongguancun Street, Haidian District
Beijing 100080
CN

9C-EB-E8 (hex) BizLink (Kunshan) Co.,Ltd
9CEBE8 (base 16) BizLink (Kunshan) Co.,Ltd
No.168,Nanhe Road,Economic & Technological Development Zone,
Kunshan City Jiangsu Province 215300
CN

C8-D1-D1 (hex) AGAiT Technology Corporation
C8D1D1 (base 16) AGAiT Technology Corporation
5F,No.27-8, Sec. 2, Zhongzheng E. Rd., Danshui Township
Taipei County 25170
TW

00-DB-45
(hex) THAMWAY CO.,LTD.
00DB45 (base 16) THAMWAY CO.,LTD.
3-9-2
Fuji Shizuoka 417-0001
JP

28-72-C5 (hex) Smartmatic Corp
2872C5 (base 16) Smartmatic Corp
1001 Broken Sound Pkwy NW Suite D
Boca Raton Florida 33487
US

74-F7-26 (hex) Neuron Robotics
74F726 (base 16) Neuron Robotics
91 Pearson Ave
Somerville MA 02144
US

88-98-21 (hex) TERAON
889821 (base 16) TERAON

2F Seohan Bldg., 1552-10, Seocho-Dong, Seocho-Gu,
Seoul 137-070
KR

E0-E7-51 (hex) Nintendo Co., Ltd.
E0E751 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

74-F0-7D (hex) BnCOM Co.,Ltd
74F07D (base 16) BnCOM Co.,Ltd
Room1007, Daehyun Techno World, 174
Uiwang-si Gyeonggi-do 437-753
KR

7C-6C-8F (hex) AMS NEVE LTD
7C6C8F (base 16) AMS NEVE LTD
BILLINGTON ROAD
BURNLEY LANCASHIRE BB11 5UB
GB

9C-B2-06 (hex) HMS Industrial Networks
9CB206
(base 16) HMS Industrial Networks
P O Box 4126 Halmstad Halland 300 04 SE
Halland Halmstad 300 04
SE

AC-E9-AA (hex) Hay Systems Ltd
ACE9AA (base 16) Hay Systems Ltd
Watermark
Livingston West Lothian EH54 7EG
GB

08-2A-D0 (hex) SRD Innovations Inc.
082AD0 (base 16) SRD Innovations Inc.
11525 Valley Ridge Dr. NW
Calgary AB T3B 5T4
CA

E0-8F-EC (hex) REPOTEC CO., LTD.
E08FEC (base 16) REPOTEC CO., LTD.
3F, 258.
CHUNG HO CITY, TAIPEI COUNTY 235
TW

00-3A-AF (hex) BlueBit Ltd.

003AAF (base 16) BlueBit Ltd.
Unit B, 21/F., 78 Hung To Road,
Kowloon,
HK

64-16-8D (hex) Cisco Systems, Inc
64168D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

F0-62-81 (hex) ProCurve Networking by HP
F06281 (base 16) ProCurve Networking by HP
60 Alexandra Terrace
118502
SG

C0-9C-92 (hex) COBY
C09C92 (base 16) COBY
COBY
Electronics ShenZhen R&D Center
SHENZHEN GUANGDONG 518109
CN

88-ED-1C (hex) Cudo Communication Co., Ltd.
88ED1C (base 16) Cudo Communication Co., Ltd.
10F AriangTV 1467-80, Seocho-3dong, Seocho-gu
Seoul 137-868
KR

9C-CD-82 (hex) CHENG UEI PRECISION INDUSTRY CO.,LTD
9CCD82 (base 16) CHENG UEI PRECISION INDUSTRY CO.,LTD
No.18, Chung Shan Rd., Tu-Cheng Industry Park
Tu Cheng City Taipei Hsien 23680
TW

C0-38-F9 (hex) Nokia Danmark A/S
C038F9 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

F4-63-49 (hex) Diffon Corporation
F46349 (base 16) Diffon Corporation
Digital Tower Aston 1505
Seoul 153803
KR

00-3A-9C (hex) Cisco Systems, Inc
003A9C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

64-4F-74 (hex) LENUS Co., Ltd.
644F74 (base 16) LENUS Co., Ltd.
18-5 Gwacheon-Dong
Gwacheon Gyeonggi-Do 427-060
KR

78-7F-62
(hex) GiK mbH
787F62 (base 16) GiK mbH
Goethestraße 5
Aachen 52064
DE

F8-52-DF (hex) VNL Europe AB
F852DF (base 16) VNL Europe AB
Finlandsgatan 10
Kista 164 74
SE

D8-C3-FB (hex) DETRACOM
D8C3FB (base 16) DETRACOM
41 AVENUE DE L'EUROPE
CASTELNAU D'ESTRETEFONDS 31620
FR

A8-CB-95 (hex) EAST BEST CO., LTD.
A8CB95 (base 16) EAST BEST CO., LTD.
4F,NO.98,SHING TEH ROAD
SAN CHUNG CITY TAIPEI 241
TW

F4-5F-F7 (hex) DQ Technology Inc.
F45FF7 (base 16) DQ Technology Inc.
5111 Johnson Drive
Pleasanton CA 94588
US

7C-3B-D5 (hex) Imago Group
7C3BD5 (base 16) Imago Group
Ramon Marti Alsina 2-4-6
Badalona Barcelona 08911
ES

40-15-97 (hex) Protect America, Inc.
401597 (base 16) Protect America, Inc.
5100 N IH-35
Round Rock TX 78681
US

5C-E2-23 (hex) Delphin Technology AG
5CE223 (base 16) Delphin Technology AG
Lustheide
81
Bergisch-Gladbach 51427
DE

F8-71-FE (hex) The Goldman Sachs Group, Inc.
F871FE (base 16) The Goldman Sachs Group, Inc.
Christchurch Court | 10-15 Newgate Street
London London EC1A 7HD
GB

C4-FC-E4 (hex) DishTV NZ Ltd
C4FCE4 (base 16) DishTV NZ Ltd
10 Penney Ave
Auckland 1041
NZ

2C-19-84 (hex) IDN Telecom, Inc.
2C1984 (base 16) IDN Telecom, Inc.
2669 Great Arbor Way
Union City CA 94587
US

EC-6C-9F (hex) Chengdu Volans Technology CO.,LTD
EC6C9F (base 16) Chengdu Volans Technology CO.,LTD
2nd Floor Building 4B Hi-Tech Incubation Park,Nanyan Xian,Tianfu Ave
Chengdu Sichuan 610041
CN

40-EF-4C (hex) Fihonest communication co.,Ltd
40EF4C (base 16) Fihonest communication co.,Ltd
Room902,Park road,Zhixing business-building
Dongguan Guangdong 523560
CN

00-27-1E (hex) Xagyl Communications
00271E (base 16) Xagyl Communications
1667 Marronier Crt
Cumberland

Ontario K4C 1C2
CA

00-27-1D (hex) Comba Telecom Systems (China) Ltd.
00271D (base 16) Comba Telecom Systems (China) Ltd.
10 Shenzhou Road
Guangzhou Guangdong 510663
CN

00-27-20 (hex) NEW-SOL COM
002720 (base 16) NEW-SOL COM
Bucheon Tecnopark 403-602
Bucheon city Kyoungki-do 420-734
KR

00-26-F7 (hex) Nivetti Systems Pvt. Ltd.
0026F7 (base 16) Nivetti Systems Pvt. Ltd.
#727,8th Main, JP Nagar 3rd Phase
Bangalore 560078
IN

00-26-F6 (hex) Military Communication Institute
0026F6 (base 16) Military Communication Institute
ul. Warszawska 22A
Zegrze 05-130
PL

00-26-F0 (hex) cTrixs International GmbH.
0026F0 (base 16) cTrixs International GmbH.
Lieferinger Hauptstr. 140
Salzburg Salzburg 5020
AT

00-26-EA (hex) Cheerchip Electronic Technology (ShangHai) Co., Ltd.
0026EA (base 16) Cheerchip Electronic Technology (ShangHai) Co., Ltd.
ROOM 1202, NO. 51,
7 Area, NO. 1467 CAOBAO ROAD;
SHANGHAI 201101
CN

00-27-08 (hex) Nordiag ASA
002708 (base 16) Nordiag ASA
Frysjaveien 40
Oslo 0884
NO

58-F6-7B (hex) Xia Men UnionCore Technology LTD.
58F67B (base 16) Xia Men UnionCore Technology LTD.

(224)2F Chuangye Building,Xiamen Pioneering Park for Overseas Chinese Scholars
Xia Men Fu Jian 361009
CN

00-27-02 (hex) SolarEdge Technologies
002702 (base 16) SolarEdge Technologies
1 Abba Eban St.
Herzelia 46725
IL

00-26-FA (hex) BandRich Inc.
0026FA (base 16) BandRich Inc.
7F., No.188, Baociao Road
Sindian City Taipei 23145
TW

00-26-F9 (hex) S.E.M. srl
0026F9 (base 16) S.E.M. srl
via Lecco, 61
Vimercate Monza Brianza 20059
IT

00-26-FD (hex) Interactive Intelligence
0026FD (base 16) Interactive Intelligence
7601 Interactive Way
IN 46278
US

E8-0B-13 (hex) Akib Systems Taiwan, INC
E80B13 (base 16) Akib
Systems Taiwan, INC
No.582-1, RuiGuang Rd
Taipei 114
TW

00-27-11 (hex) LanPro Inc
002711 (base 16) LanPro Inc
1880 NW 93Av
Miami Florida 33172
US

00-26-86 (hex) Quantenna Communcations, Inc.
002686 (base 16) Quantenna Communcations, Inc.
3450 W. Warren Ave.
Fremont CA 94538
US

00-26-84 (hex) KISAN SYSTEM

002684 (base 16) KISAN SYSTEM
GWANGMYEONG TECHNOPARK B-403
GWANGMYEONG GYEONGGI 423-050
KR

00-26-80 (hex) SIL3 Pty.Ltd
002680 (base 16) SIL3 Pty.Ltd
Factory 10
DANDENONG VICTORIA 3175
AU

00-26-DD (hex) Fival Science & Technology Co.,Ltd.
0026DD (base 16) Fival Science & Technology Co.,Ltd.
1/F, Building 57, No.461
Shanghai Shanghai 200233
CN

00-26-DE (hex) FDI MATELEC
0026DE (base 16) FDI MATELEC
Route de saint symphorien
Les landes Génusson 85130
FR

00-26-DA (hex) Universal Media Corporation /Slovakia/ s.r.o.
0026DA (base
16) Universal Media Corporation /Slovakia/ s.r.o.
Mickiewiczova 7104/14
Bratislava 811 07
SK

00-26-DB (hex) Ionics EMS Inc.
0026DB (base 16) Ionics EMS Inc.
Carmelray Industrial Park 2, Brgy. Tulo
Calamba Laguna 4027
PH

00-26-C9 (hex) Proventix Systems, Inc.
0026C9 (base 16) Proventix Systems, Inc.
4518 Valleydale Road
Birmingham AL 35242
US

00-26-BF (hex) ShenZhen Temobi Science&Tech Development Co.,Ltd
0026BF (base 16) ShenZhen Temobi Science&Tech Development Co.,Ltd
4FloorG, Jinrun Tower, 6019 Shennan Road
ShenZhen 518000
CN

00-26-D5 (hex) Ory Solucoes em Comercio de Informatica Ltda.
0026D5 (base 16) Ory Solucoes em Comercio de Informatica Ltda.
Av. Unisinos, 615
Sao Leopoldo RS 93022000
BR

00-26-CE (hex) Kozumi USA Corp.
0026CE (base 16) Kozumi USA Corp.
3005 Hartridge Terrace
Wellington FL 33414
US

00-26-CA (hex) Cisco Systems, Inc
0026CA
(base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-26-94 (hex) Senscient Ltd
002694 (base 16) Senscient Ltd
Unit 2, Block A, Arena Business Centre
Poole Dorset BH17 7FJ
GB

00-26-90 (hex) I DO IT
002690 (base 16) I DO IT
1308, WoolimLions2nd Doksan Station
Seoul 153-787
KR

00-26-8F (hex) MTA SpA
00268F (base 16) MTA SpA
Viale dell Industria 12
Codogno LODI 26845
IT

00-26-B4 (hex) Ford Motor Company
0026B4 (base 16) Ford Motor Company
20300 Rotunda Drive
Dearborn MI 48124
US

00-26-AC (hex) Shanghai LUSTER Teraband photonic Co., Ltd.
0026AC (base 16) Shanghai LUSTER Teraband photonic Co., Ltd.
F4, No.39 ChengZhong Rd.
Shanghai 201800
CN

00-26-A6 (hex) TRIXELL
0026A6 (base 16) TRIXELL
460, Rue du pommarin
MOIRANS 38210
FR

00-26-79 (hex) Euphonic Technologies, Inc.
002679 (base 16) Euphonic Technologies, Inc.
2-5-10
Shin-yokohama, Kouhoku-ku
Yokohama 222-0033
JP

00-26-76 (hex) COMMidt AS
002676 (base 16) COMMidt AS
Kikregata 57-59
Levanger Nord-Troendelag 7600
NO

00-26-66 (hex) EFM Networks
002666 (base 16) EFM Networks
6F, Benposra II 1197-1 Bojeong Giheung Gu
Yong In Kyunggi do 446913
KR

00-26-38 (hex) Xia Men Joyatech Co., Ltd.
002638 (base 16) Xia Men Joyatech Co., Ltd.
Room 304, 28th Building, Guanri Road, Xiamen Software Park
Xiamen Fujian Province 361008
CN

00-26-3A (hex) Digitec Systems
00263A (base 16) Digitec Systems
7,1st Street, Kasturibai Nagar
Chennai Tamil Nadu 600054
IN

00-26-35 (hex) Bluetechnix GmbH
002635 (base 16) Bluetechnix GmbH
Waidhausenstr. 3/19
Vienna 1140
AT

00-26-20 (hex) ISGUS GmbH
002620 (base 16) ISGUS GmbH
Oberdorfstraße 18 - 22
VS - Schwenningen BW 78054

DE

00-26-1D (hex) COP SECURITY SYSTEM CORP.
00261D
(base 16) COP SECURITY SYSTEM CORP.
4~7F, No.5, Lane 130, Min-Chung Rd.,
Taipei 23141
TW

00-26-17 (hex) OEM Worldwide
002617 (base 16) OEM Worldwide
2920 Kelly Ave
Watertown SD 57201
US

00-26-13 (hex) Engel Axil S.L.
002613 (base 16) Engel Axil S.L.
Puig dels Tudons, 6
Barbera del Valles Barcelona 08210
ES

00-26-0F (hex) Linn Products Ltd
00260F (base 16) Linn Products Ltd
Glasgow Road
Glasgow Scotland G76 0EQ
GB

00-26-0C (hex) Dataram
00260C (base 16) Dataram
186 Princeton Rd.
West Windsor NJ 08550
US

00-25-F6 (hex) netTALK.com, Inc.
0025F6 (base 16) netTALK.com, Inc.
1100 NW 163RD DRIVE
NORTH MIAMI BEACH FL 33169
US

00-25-F5 (hex) DVS Korea, Co., Ltd
0025F5 (base 16) DVS Korea, Co., Ltd
497-3, SangHa-Dong, Giheung-gu
Yong-In city Gyeonggi-do 446-914
KR

00-25-EB (hex) Reutech Radar Systems (PTY) Ltd
0025EB (base 16) Reutech

Radar Systems (PTY) Ltd
35 Elektron Avenue
Stellenbosch Western Cape 7600
ZA

00-25-EE (hex) Avtex Ltd
0025EE (base 16) Avtex Ltd
Unit G5 Capital Business Park
Cardiff CF3 2PX
GB

00-26-2B (hex) Wongs Electronics Co. Ltd.
00262B (base 16) Wongs Electronics Co. Ltd.
Wanfeng Ind. Esata, Shajing, Baoan,
Shenzhen Guang Dong 518104
CN

00-26-01 (hex) Cutera Inc
002601 (base 16) Cutera Inc
3240 Bayshore Blvd
Brisbane CA 94405
US

00-25-D9 (hex) DataFab Systems Inc.
0025D9 (base 16) DataFab Systems Inc.
385-3 Hongzun Road
Pingzhen City Taoyuan County 32466
TW

00-26-57 (hex) OOO NPP EKRA
002657 (base 16) OOO NPP EKRA
I.Yakovleva St., 3
Cheboksary Chuvash Republic 428003
RU

00-26-52 (hex) Cisco Systems, Inc
002652 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-25-76 (hex) NELI TECHNOLOGIES
002576 (base 16) NELI
TECHNOLOGIES
Route Nationale
LE RHEU 35650
FR

00-25-74 (hex) KUNIMI MEDIA DEVICE Co., Ltd.
002574 (base 16) KUNIMI MEDIA DEVICE Co., Ltd.
3 KITAMACHIDA YAMAZAKI
KUNIMI, DATE FUKUSHIMA 969-1771
JP

00-25-73 (hex) ST Electronics (Info-Security) Pte Ltd
002573 (base 16) ST Electronics (Info-Security) Pte Ltd
100, Jurong East Street 21, ST Electronics Jurong East Bldg
609602
SG

00-25-6F (hex) Dantherm Power
00256F (base 16) Dantherm Power
Marienlystvej 65
Skive 7800
DK

00-25-D6 (hex) The Kroger Co.
0025D6 (base 16) The Kroger Co.
11450 Grooms Road
Blue Ash OH 45242
US

00-25-D1 (hex) Eastern Asia Technology Limited
0025D1 (base 16) Eastern Asia Technology Limited
8F-1, No. 188, Baoqiao Rd., Xindian Dist.
New Taipei City 23145
TW

00-25-CD (hex) Skylane Optics
0025CD (base 16) Skylane Optics
Rue d'Arlon, 6
Windhof 8399
LU

00-25-8C
(hex) ESUS ELEKTRONIK SAN. VE DIS. TIC. LTD. STI.
00258C (base 16) ESUS ELEKTRONIK SAN. VE DIS. TIC. LTD. STI.
ESENSEHIR MAHALLESI KURKCULER CADDESI
ISTANBUL 34776
TR

00-25-87 (hex) Vitality, Inc.
002587 (base 16) Vitality, Inc.
One Broadway
Cambridge MA 02142
US

00-25-AE (hex) Microsoft Corporation
0025AE (base 16) Microsoft Corporation
One Microsoft Way
Redmond Washington 98052-6399
US

00-25-AF (hex) COMFILE Technology
0025AF (base 16) COMFILE Technology
Guro 5 dong, Guro-gu
Seoul 152-842
KR

00-25-A8 (hex) Kontron (BeiJing) Technology Co.,Ltd
0025A8 (base 16) Kontron (BeiJing) Technology Co.,Ltd
17 Building, Block #1,ABP. 188 Western South 4th Ring Road
BeiJing 100070
CN

00-25-A5 (hex) Walnut Media Network
0025A5 (base 16) Walnut Media Network
440 N Wolfe Rd
Sunnyvale CA 94085
US

00-25-7A (hex) CAMCO Produktions- und Vertriebs-GmbH für Beschallungs-
und Beleuchtungsanlagen
00257A (base 16) CAMCO Produktions- und Vertriebs-GmbH für Beschallungs- und Beleuchtungsanlagen
Fischpicke 5
Wenden NRW 57482
DE

00-25-BF (hex) Wireless Cables Inc.
0025BF (base 16) Wireless Cables Inc.
1414 Soquel Ave, Ste 212
Santa Cruz CA 95062
US

00-25-B9 (hex) Cypress Solutions Inc
0025B9 (base 16) Cypress Solutions Inc
3066 Beta Ave
BC V5G 4K4
CA

00-25-B6 (hex) Telecom FM
0025B6 (base 16) Telecom FM
895 Plymouth Road
Slough Berkshire SL1 4LP

GB

00-25-A4 (hex) EuroDesign embedded technologies GmbH
0025A4 (base 16) EuroDesign embedded technologies GmbH
Waldstratraße 4A
Kirchdorf a.d. Amper Bayern 85414
DE

00-25-C1 (hex) Nawoo Korea Corp.
0025C1 (base 16) Nawoo Korea Corp.
4Fl., Hanwon Bldg., 6-1, Sunae-dong, Bundang-gu,
Seongnam-si Gyeonggi-do 463-825
KR

00-25-0A (hex) Security Expert Co. Ltd
00250A (base
16) Security Expert Co. Ltd
8F-3, No.2, Jian 8th Rd.,
Jhonghe Taipei 235
TW

00-25-09 (hex) SHARETRONIC Group LTD
002509 (base 16) SHARETRONIC Group LTD
ShaJing,Bao'an Zone,
ShenZhen Guangdong 518104
CN

00-24-FD (hex) Accedian Networks Inc
0024FD (base 16) Accedian Networks Inc
2351 Alfred Nobel Blvd
Saint Laurent QC h4s 2A9
CA

00-25-5A (hex) Tantalus Systems Corp.
00255A (base 16) Tantalus Systems Corp.
301-3480 Gilmore Way
Burnaby BC V5G 4Y1
CA

00-25-59 (hex) Syphan Technologies Ltd
002559 (base 16) Syphan Technologies Ltd
The Watermill
Skipton North Yorkshire BD23 3AG
GB

00-25-54 (hex) Pixel8 Networks
002554 (base 16) Pixel8 Networks
22 Great Oaks Blvd, Suite 150

San Jose CA 95119
US

00-25-30 (hex) Aetas Systems Inc.
002530 (base 16) Aetas Systems Inc.
3A3, No. 1, LiHsin Road I
HsinChu Taiwan 30078
TW

00-25-2C (hex) Entourage
Systems, Inc.
00252C (base 16) Entourage Systems, Inc.
7901 Jones Branch Drive
McLean Virginia 22102
US

00-25-2F (hex) Energy, Inc.
00252F (base 16) Energy, Inc.
3297 Pacific Street
Charleston SC 29418
US

00-25-0F (hex) On-Ramp Wireless, Inc.
00250F (base 16) On-Ramp Wireless, Inc.
16885 West Bernardo Drive
San Diego CA 92127
US

00-25-05 (hex) eks Engel GmbH & Co. KG
002505 (base 16) eks Engel GmbH & Co. KG
Schuetzenstrasse 2
Wenden-Hillmicke NRW 57482
DE

00-25-40 (hex) Quasar Technologies, Inc.
002540 (base 16) Quasar Technologies, Inc.
1701 Barrett Lakes Boulevard
Kennesaw GA 30144
US

00-25-33 (hex) WITTENSTEIN AG
002533 (base 16) WITTENSTEIN AG
Walter-Wittenstein-Straße 1
Igersheim 97999
DE

00-25-23 (hex) OCP Inc.
002523 (base 16) OCP Inc.

18495 S Dixie Hwy PMB 107
Miami Florida 33157
US

00-25-1D (hex) DSA Encore, LLC
00251D
(base 16) DSA Encore, LLC
50 Pocono Rd
Brookfield CT 06804
US

00-24-F5 (hex) NDS Surgical Imaging
0024F5 (base 16) NDS Surgical Imaging
5750 Hellyer Ave.
San Jose CA. 95138
US

00-24-8B (hex) HYBUS CO., LTD.
00248B (base 16) HYBUS CO., LTD.
Rm# 701, Daerung Post Tower 1st
SEOUL 152-790
KR

00-24-92 (hex) Motorola, Broadband Solutions Group
002492 (base 16) Motorola, Broadband Solutions Group
1101 Marina Village Parkway
Alameda CA 94501
US

00-24-84 (hex) Bang and Olufsen Medicom a/s
002484 (base 16) Bang and Olufsen Medicom a/s
Gimsinglundvej 20
Struer DK DK7600
DK

00-24-D8 (hex) IlSung Precision
0024D8 (base 16) IlSung Precision
182-2, Jegi-ri, Jeongnam-myeon
Hwanseong-si Gyeonggi-do 445-964
KR

00-24-CD (hex) Willow Garage, Inc.
0024CD (base 16) Willow Garage, Inc.
68 Willow Rd.
Menlo Park CA 94025
US

00-24-D3 (hex) QUALICA

Inc.
0024D3 (base 16) QUALICA Inc.
5-29-15,Toyo,
Tokyo 135-0016
JP

00-24-CE (hex) Exeltech Inc
0024CE (base 16) Exeltech Inc
7317 Jack Newell Blvd North
Fort Worth TX 76118
US

00-24-CF (hex) Inscape Data Corporation
0024CF (base 16) Inscape Data Corporation
1611 South Main Street
Milpitas CA 95035
US

00-24-C6 (hex) Hager Electro SAS
0024C6 (base 16) Hager Electro SAS
132, boulevard d'Europe
Obernai Bas-Rhin 67215
FR

00-24-7A (hex) FU YI CHENG Technology Co., Ltd.
00247A (base 16) FU YI CHENG Technology Co., Ltd.
13F, No. 105-1, Jilin Rd., Luju Shiang,
Taoyuan 338
TW

00-24-76 (hex) TAP.tv
002476 (base 16) TAP.tv
16w361 South Frontage Road
Burr Ridge IL 60527
US

00-24-6D (hex) Weinzierl Engineering GmbH
00246D (base 16) Weinzierl Engineering GmbH
Bahnhofstrasse 6
Tyrlaching Bayern 84558
DE

00-24-B1 (hex) Coulomb Technologies
0024B1
(base 16) Coulomb Technologies
1692 Dell Ave
Campbell CA 95008
US

00-24-9C (hex) Bimeng Comunication System Co. Ltd
00249C (base 16) Bimeng Comunication System Co. Ltd
Level 16/f, Tower B,Sinotrans Plaza,No.43, Xi Zhi Men Northern Road,Hai dian District
Beijing 100044
CN

00-24-98 (hex) Cisco Systems, Inc
002498 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-24-B4 (hex) ESCATRONIC GmbH
0024B4 (base 16) ESCATRONIC GmbH
Wuerzburger Str. 8
Laatzen Lower Saxony 30880
DE

00-24-DA (hex) Innovar Systems Limited
0024DA (base 16) Innovar Systems Limited
12155 Commissioner Drive
North Jackson Ohio 44451
US

00-24-6A (hex) Solid Year Co., Ltd.
00246A (base 16) Solid Year Co., Ltd.
2F-1, No. 94, Bao-chung Road,
Hsin-tien City Taipei Hsien 23147
TW

00-24-67 (hex) AOC International (Europe) GmbH
002467 (base 16) AOC International
(Europe) GmbH
Lahnstrasse 86A
Berlin 12055
DE

00-24-53 (hex) Initra d.o.o.
002453 (base 16) Initra d.o.o.
Slomskova 33
Ljubljana 1000
SI

00-24-4C (hex) Solartron Metrology Ltd
00244C (base 16) Solartron Metrology Ltd
Steyning Way
Bognor Regis West Sussex PO20 9ST

GB

00-24-48 (hex) SpiderCloud Wireless, Inc
002448 (base 16) SpiderCloud Wireless, Inc
475 Sycamore Drive
Milpitas CA 95035
US

00-24-4B (hex) PERCEPTRON INC
00244B (base 16) PERCEPTRON INC
47827 HALYARD DR
PLYMOUTH MI 48170
US

00-23-FB (hex) IP Datatel, LLC.
0023FB (base 16) IP Datatel, LLC.
13110 Southwest Freeway
Sugar Land Texas 77478
US

00-23-FE (hex) Biodevices, SA
0023FE (base 16) Biodevices, SA
Rua 5 de Outubro, 309
Porto 4100-175
PT

00-23-F4 (hex) Masternaut
0023F4 (base 16) Masternaut
4, rue Charles Cros
Louviers 27407
FR

00-24-5E (hex) Hivision
Co.,ltd
00245E (base 16) Hivision Co.,ltd
2201-2202, COFCO Property Tower,
Shenzhen Guangdong 518101
CN

00-24-4D (hex) Hokkaido Electronics Corporation
00244D (base 16) Hokkaido Electronics Corporation
1-1 East 10 North 10
Sapporo Hokkaido 065-0010
JP

00-24-52 (hex) Silicon Software GmbH
002452 (base 16) Silicon Software GmbH
Steubenstrasse 46

Mannheim Baden-Wuerttemberg 68163
DE

00-24-16 (hex) Any Use
002416 (base 16) Any Use
LG APT 211-1805,
Yongin City Gyeong-Gi Province 448-150
KR

00-24-09 (hex) The Toro Company
002409 (base 16) The Toro Company
5825 Jasmine Street
Riverside CA 92504
US

00-24-22 (hex) Knapp Logistik Automation GmbH
002422 (base 16) Knapp Logistik Automation GmbH
Günter Knapp-Straße 5-7
Hart bei Graz Styria 8075
AT

00-24-1B (hex) iWOW Communications Pte Ltd
00241B (base 16) iWOW Communications Pte Ltd
1 Lorong
2 Toa Payoh #04-01
319637
SG

00-24-28 (hex) EnergyICT
002428 (base 16) EnergyICT
Theodoor Sevenslaan 104a
Kortrijk 8500
BE

00-24-17 (hex) Thomson Telecom Belgium
002417 (base 16) Thomson Telecom Belgium
Prins Boudewijnlaan 47
Edegem Antwerp B-2650
BE

00-24-42 (hex) Axona Limited
002442 (base 16) Axona Limited
Unit 4U St. Albans Enterprise Centre
St. Albans Herts AL3 6EN
GB

00-24-3C (hex) S.A.A.A.
00243C (base 16) S.A.A.A.

Z.A. Croix Saint Mathieu
GALLARDON Eure et Loir 28320
FR

00-24-06 (hex) Pointmobile
002406 (base 16) Pointmobile
301,World Meridian Verture Center-1 60-24
Seoul Geumcheon-gu 153781
KR

00-24-00 (hex) Nortel Networks
002400 (base 16) Nortel Networks
2221 Lakeside Blvd
Richardson TX 75081
US

00-24-2A (hex) Hittite Microwave Corporation
00242A (base 16) Hittite Microwave Corporation
20 Alpha Rd
Chelmsford
MA 01824
US

00-23-7E (hex) ELSTER GMBH
00237E (base 16) ELSTER GMBH
KUHLMANNSTRASSE 10
HAMELN 31785
DE

00-23-7C (hex) NEOTION
00237C (base 16) NEOTION
ZI les Paluds
AUBAGNE F-13400
FR

00-23-7A (hex) RIM
00237A (base 16) RIM
295 Phillip Street
Waterloo Ontario N2L 3W8
CA

00-23-CA (hex) Behind The Set, LLC
0023CA (base 16) Behind The Set, LLC
2185 Knollwood Dr.
Boulder CO 80302
US

00-23-CB (hex) Shenzhen Full-join Technology Co.,Ltd

0023CB (base 16) Shenzhen Full-join Technology Co.,Ltd
9/F,No.1,Xinrui Road,Hourui ,Xixiang Town, Bao'an District
ShenZhen GuangDong 518000
CN

00-23-D0 (hex) Uniloc USA Inc.
0023D0 (base 16) Uniloc USA Inc.
3333 Michelson Drive
Irvine CA 92612
US

00-23-DC (hex) Benein, Inc
0023DC (base 16) Benein, Inc
Hyojachonjesangga228 B9, 297,
Sengnam-si Kyunggi-do 463-818
KR

00-23-D1 (hex) TRG
0023D1
(base 16) TRG
Wisma Kosgoro 13th Floor
Jakarta Pusat 10350
ID

00-23-D3 (hex) AirLink WiFi Networking Corp.
0023D3 (base 16) AirLink WiFi Networking Corp.
19F-1 Room A , No.97, Sec 4, Chung Hsin Rd.,
San Chung City, Taipei Hsien 241
TW

00-23-AD (hex) Xmark Corporation
0023AD (base 16) Xmark Corporation
309 Legget Drive
Ottawa Ontario K2K 3A3
CA

00-23-AB (hex) Cisco Systems, Inc
0023AB (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-23-A4 (hex) New Concepts Development Corp.
0023A4 (base 16) New Concepts Development Corp.
2650 Bridge Lane
Woodstock IL 60098
US

00-23-B0 (hex) COMXION Technology Inc.
0023B0 (base 16) COMXION Technology Inc.
11F, No. 111, Sec 2, Keelung Rd., Sinyi Distric
Taipei Taiwan 110
TW

00-23-E1 (hex) Cavena Image Products AB
0023E1 (base 16) Cavena Image Products AB
Nytorpsvägen 26
Täby Stockholm
se-183 53
SE

00-23-C7 (hex) AVSystem sp. z o. o.
0023C7 (base 16) AVSystem sp. z o. o.
Radzikowskiego 47D
Kraków, ul. 31-315
PL

00-23-C3 (hex) LogMeIn, Inc.
0023C3 (base 16) LogMeIn, Inc.
500 Unicorn Park Drive
Woburn Massachusetts 01801
US

00-23-85 (hex) ANTIPODE
002385 (base 16) ANTIPODE
5 RUE DE DOUAI
PARIS ILE DE FRANCE 75009
FR

00-22-E1 (hex) ZORT Labs, LLC.
0022E1 (base 16) ZORT Labs, LLC.
44H Dover Point Road
Dover NH 03820
US

00-22-E0 (hex) Atlantic Software Technologies S.r.L.
0022E0 (base 16) Atlantic Software Technologies S.r.L.
Via Martino Bassi, 9
Milano 20148
IT

00-22-DF (hex) TAMUZ Monitors
0022DF (base 16) TAMUZ Monitors
Tiedenkamp 16
Henstedt-Ulzburg SH 24558
DE

00-22-D8 (hex) Shenzhen GST Security and Safety Technology Limited
0022D8 (base 16) Shenzhen GST Security and Safety Technology Limited
Room 502,Building
6 of Kupai Infomation Harbour,
Shenzhen Guangdong 518040
CN

00-22-DC (hex) Vigil Health Solutions Inc.
0022DC (base 16) Vigil Health Solutions Inc.
2102-4464 Markham St
Victoria BC V8Z 7X8
CA

00-22-D9 (hex) Fortex Industrial Ltd.
0022D9 (base 16) Fortex Industrial Ltd.
Flat 16, 12 /F.,Pacific Trade Centre
Kowloon Hong Kong 852
CN

00-23-72 (hex) MORE STAR INDUSTRIAL GROUP LIMITED
002372 (base 16) MORE STAR INDUSTRIAL GROUP LIMITED
Rm1221-1225, F12 Sangda Science and Technology Building ,
Shenzhen Guangdong 518057
CN

00-23-6D (hex) ResMed Ltd
00236D (base 16) ResMed Ltd
1, Elizabeth Macarthur Drive
Bella Vista NSW 2153
AU

00-23-6B (hex) Xembedded, Inc.
00236B (base 16) Xembedded, Inc.
1050 Highland Dr
Ann Arbor MI 48108
US

00-23-61 (hex) Unigen Corporation
002361 (base 16) Unigen Corporation
45388 Warm Springs Blvd
Fremont CA 94539
US

00-23-3B
(hex) C-Matic Systems Ltd
00233B (base 16) C-Matic Systems Ltd
Warren Court

Crowborough East Sussex TN6 2QX
GB

00-23-2C (hex) Senticare
00232C (base 16) Senticare
161 Worcester Rd
Framingham MA 01701
US

00-23-2B (hex) IRD A/S
00232B (base 16) IRD A/S
Kullinggade 31
Svendborg Fyn 5700
DK

00-23-03 (hex) LITE-ON IT Corporation
002303 (base 16) LITE-ON IT Corporation
14F, No. 392, Ruey Kuang Road, Neihu
Taipei City 114
TW

00-22-FE (hex) Advanced Illumination
0022FE (base 16) Advanced Illumination
440 State Garage Road
Rochester Vermont 05767
US

00-23-00 (hex) Cayee Computer Ltd.
002300 (base 16) Cayee Computer Ltd.
Units 1002-1003, 10/F, Join-In Hang Sing Centre
Kwai Chung N.T
HK

00-22-F3 (hex) SHARP Corporation
0022F3 (base 16) SHARP Corporation
22-22,Nagaike-cho
Osaka city Osaka prefecture 545-8522
JP

00-22-F6 (hex) Syracuse
Research Corporation
0022F6 (base 16) Syracuse Research Corporation
6225 Running Ridge Road
North Syracuse NY 13212
US

00-23-4C (hex) KTC AB
00234C (base 16) KTC AB

F O Petersons gata 6
Vastra Frolunda Gothenburg SE-42131
SE

00-23-43 (hex) TEM AG
002343 (base 16) TEM AG
Triststrasse 8
Chur 7007
CH

00-23-36 (hex) METEL s.r.o.
002336 (base 16) METEL s.r.o.
Zizkuv Kopec 617
Ceska Skalice Nachod 55203
CZ

00-23-38 (hex) OJ-Electronics A/S
002338 (base 16) OJ-Electronics A/S
Stenager 13B
Sønderborg 6400
DK

00-23-1A (hex) ITF Co., Ltd.
00231A (base 16) ITF Co., Ltd.
2-2-11 Nishiki-cho
Tachikawa-shi Tokyo 190-0022
JP

00-23-0D (hex) Nortel Networks
00230D (base 16) Nortel Networks
2221 Lakeside Blvd
Richardson TX 75081
US

00-23-2A (hex) eonas IT-Beratung und -Entwicklung GmbH
00232A (base 16) eonas IT-Beratung und -Entwicklung
GmbH
Greifenhagener Str. 54
Berlin 10437
DE

00-23-27 (hex) Shouyo Electronics CO., LTD
002327 (base 16) Shouyo Electronics CO., LTD
4F., No.8, Lane 345, Yang Kung St.
Taipei 11491
TW

00-23-28 (hex) ALCON TELECOMMUNICATIONS CO., LTD.

002328 (base 16) ALCON TELECOMMUNICATIONS CO., LTD.
2nd FL, NO 480-5, SEC. 6, YEN-PING N. RD.,
TAIPEI TAIWAN 111
TW

00-22-ED (hex) TSI Power Corporation
0022ED (base 16) TSI Power Corporation
1103 West Pierce Avenue
Antigo WI 54409
US

00-23-5F (hex) Silicon Micro Sensors GmbH
00235F (base 16) Silicon Micro Sensors GmbH
Grenzstrasse 28 / Gebäude 32
Dresden Saxony 01109
DE

00-22-52 (hex) ZOLL Lifecor Corporation
002252 (base 16) ZOLL Lifecor Corporation
121 Freeport Road
Pittsburgh PA 15238
US

00-22-4D (hex) MITAC INTERNATIONAL CORP.
00224D (base 16) MITAC INTERNATIONAL CORP.
6TH FL., NO187, TIDING BLVD., SEC.
2
Taipei 114
TW

00-22-4C (hex) Nintendo Co., Ltd.
00224C (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

00-22-4A (hex) RAYLASE AG
00224A (base 16) RAYLASE AG
Argelsrieder Feld 2-4
Wessling Bavaria 82234
DE

00-22-4B (hex) AIRTECH TECHNOLOGIES, INC.
00224B (base 16) AIRTECH TECHNOLOGIES, INC.
19fl-4, no.77, Hsin Tai Wu Rd., sec.1, Hsin-Chih
Taipei 221
TW

00-22-6D (hex) Shenzhen GIEC Electronics Co., Ltd.
00226D (base 16) Shenzhen GIEC Electronics Co., Ltd.
24/F, XiNian Center, ShenNan Road 6021#, Futian District
Shenzhen Guangdong Province 518040
CN

00-22-6E (hex) Gowell Electronic Limited
00226E (base 16) Gowell Electronic Limited
Room 3601 ,36 Floor,Golden Central Tower,Jintian Road,Futian Central District,
Shenzhen GuangDong 518048
CN

00-22-5D (hex) Digicable Network India Pvt. Ltd.
00225D (base 16) Digicable
Network India Pvt. Ltd.
7B, Shah Industrial Estate
Andheri - West, Mumbai. Maharashtra 400 053
IN

00-22-8C (hex) Photon Europe GmbH
00228C (base 16) Photon Europe GmbH
Jülicher Straße 376
Aachen Nordrhein-Westfalen 52070
DE

00-22-8B (hex) Kensington Computer Products Group
00228B (base 16) Kensington Computer Products Group
333 Twin Dolphin Dr.
Redwood Shores CA 94065
US

00-22-8D (hex) GBS Laboratories LLC
00228D (base 16) GBS Laboratories LLC
2325 Dulles Corner Blvd
Herndon VA 20171
US

00-22-89 (hex) Vanderlande APC inc.
002289 (base 16) Vanderlande APC inc.
1280 Lebourgneuf Blvd.
Quebec G2K 0H1
CA

00-22-C9 (hex) Lenord, Bauer & Co GmbH
0022C9 (base 16) Lenord, Bauer & Co GmbH
Dohlenstr 32
Oberhausen NRW 46145
DE

00-22-BC (hex) JDSU France SAS
0022BC (base 16) JDSU France SAS
34 rue Necker
SAINT ETIENNE LOIRE 42000
FR

00-22-7D
(hex) YE DATA INC.
00227D (base 16) YE DATA INC.
182 Shinko
Iruma Saitama 358-0055
JP

00-22-7B (hex) Apogee Labs, Inc.
00227B (base 16) Apogee Labs, Inc.
210 S. 3rd St.
North Wales PA 19454
US

00-22-9F (hex) Sensys Traffic AB
00229F (base 16) Sensys Traffic AB
Slottsgatan 14
Jonkoping Smaland 55322
SE

00-22-99 (hex) SeaMicro Inc.
002299 (base 16) SeaMicro Inc.
4677 Old Ironsides Dr.,
Santa Clara CA 95054
US

00-22-56 (hex) Cisco Systems, Inc
002256 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-22-D3 (hex) Hub-Tech
0022D3 (base 16) Hub-Tech
77, Imae-dong
Seongnam-si Gyeonggi-do 463-829
KR

00-22-D4 (hex) ComWorth Co., Ltd.
0022D4 (base 16) ComWorth Co., Ltd.
2-35-7 Nishimagome
Ohta-ku Tokyo 143-0026

JP

00-22-AA (hex) Nintendo Co., Ltd.
0022AA (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO
KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

00-22-A8 (hex) Ouman Oy
0022A8 (base 16) Ouman Oy
Voimatie 6
Kempele FIN-90440
FI

00-22-23 (hex) TimeKeeping Systems, Inc.
002223 (base 16) TimeKeeping Systems, Inc.
30700 Bainbridge Road
Solon OH 44139
US

00-22-1A (hex) Audio Precision
00221A (base 16) Audio Precision
5750 SW Arctic Drive
Beaverton OR 97005
US

00-22-13 (hex) PCI CORPORATION
002213 (base 16) PCI CORPORATION
No.25, Lane 66, Hebei 1st St., Beitun District
Taichung 406
TW

00-21-D8 (hex) Cisco Systems, Inc
0021D8 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-21-D7 (hex) Cisco Systems, Inc
0021D7 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-21-D9 (hex) SEKONIC CORPORATION
0021D9 (base 16) SEKONIC CORPORATION
7-24-14

NERIMA-KU TOKYO 178-8686
JP

00-21-DA
(hex) Automation Products Group Inc.
0021DA (base 16) Automation Products Group Inc.
1025 West 1700 North
Logan Utah 84321
US

00-22-3C (hex) RATIO Entwicklungen GmbH
00223C (base 16) RATIO Entwicklungen GmbH
Ludwig-Erhard-Strasse 22
Hamburg 20459
DE

00-21-E3 (hex) SerialTek LLC
0021E3 (base 16) SerialTek LLC
1570 Oakland Road
San Jose CA 95131
US

00-21-E7 (hex) Informatics Services Corporation
0021E7 (base 16) Informatics Services Corporation
140, Negin Bldg.,
Tehran 1549534511
IR

00-21-DC (hex) TECNOALARM S.r.l.
0021DC (base 16) TECNOALARM S.r.l.
Via Cirie'
San Mauro Torinese Torino 10099
IT

00-21-F8 (hex) Enseo, Inc.
0021F8 (base 16) Enseo, Inc.
401 International Parkway
Richardson TX 75081
US

00-21-F3 (hex) Si14 SpA
0021F3 (base 16) Si14 SpA
Via Tommaseo 77
Padova PD 35131
IT

00-21-F1 (hex) Tutus Data AB
0021F1 (base

16) Tutus Data AB
Svardvagen 11
Danderyd Stockholm 18233
SE

00-21-C4 (hex) Consilium AB
0021C4 (base 16) Consilium AB
Västra Finnbodavägen 2-4
Nacka Stockholm 13131
SE

00-21-BD (hex) Nintendo Co., Ltd.
0021BD (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

00-22-1C (hex) Private
00221C (base 16) Private

00-22-22 (hex) Schaffner Deutschland GmbH
002222 (base 16) Schaffner Deutschland GmbH
Nürtingen Branch
Nürtingen BW D-72622
DE

00-22-31 (hex) SMT&C Co., Ltd.
002231 (base 16) SMT&C Co., Ltd.
2Fr. Haksan Bldg. 110, Gwangjang-dong, Gwangjin-gu
Seoul 143-802
KR

00-22-01 (hex) Aksys Networks Inc
002201 (base 16) Aksys Networks Inc
428, 3553 - 31 Street NW
Calgary T2L 2K7
CA

00-21-93 (hex) Videofon MV
002193 (base 16) Videofon MV
6 Blackoak Mews
Newtown PA 18940
US

00-21-92 (hex) Baoding
Galaxy Electronic Technology Co.,Ltd
002192 (base 16) Baoding Galaxy Electronic Technology Co.,Ltd
NO.91 Fengfan Rd.,GaoKai District,Baoding City,Hebei Prov.China 071051

Baoding City Hebei Prov. 071051
CN

00-21-89 (hex) AppTech, Inc.
002189 (base 16) AppTech, Inc.
363 E Greyhound Pass
Carmel Indiana 46032
US

00-21-5F (hex) IHSE GmbH
00215F (base 16) IHSE GmbH
Maybachstraße 11
Oberteuringen Baden-Württemberg 88094
DE

00-21-56 (hex) Cisco Systems, Inc
002156 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-21-51 (hex) Millinet Co., Ltd.
002151 (base 16) Millinet Co., Ltd.
2F, West Building, IT Venture Tower, 78, Garakbon-Dong
Songpa-gu Seoul 138-803
US

00-21-47 (hex) Nintendo Co., Ltd.
002147 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

00-21-35 (hex) ALCATEL-LUCENT
002135
(base 16) ALCATEL-LUCENT
Ramirez de Prado 5
Madrid 28045
ES

00-21-38 (hex) Cepheid
002138 (base 16) Cepheid
904 Caribbean Drive
Sunnyvale CA 94089
US

00-21-6C (hex) ODVA
00216C (base 16) ODVA

4220 Varsity Drive
Ann Arbor MI 48108-5006
US

00-21-61 (hex) Yournet Inc.
002161 (base 16) Yournet Inc.
KT R&D Center
Seoul 137-792
KR

00-21-A7 (hex) Hantle System Co., Ltd.
0021A7 (base 16) Hantle System Co., Ltd.
481-10 Byucksan Digital Vally II, RM 1511
Seoul City Seoul 153-783
KR

00-21-9C (hex) Honeywld Technology Corp.
00219C (base 16) Honeywld Technology Corp.
No.40,Hsueh-Fu Rd.
Hsinchu 300
TW

00-21-9A (hex) Cambridge Visual Networks Ltd
00219A (base 16) Cambridge Visual Networks Ltd
61 Selwyn Road
Cambridge Cambridgeshire CB3 9EA
GB

00-21-7B (hex) Bastec AB
00217B (base 16) Bastec AB
Hästvägen 4A
Malmö SE 212 35
SE

00-21-76
(hex) YMax Telecom Ltd.
002176 (base 16) YMax Telecom Ltd.
11 Moshe Levi str.
Rishon Le Zion 75658
IL

00-21-71 (hex) Wesung TNC Co., Ltd.
002171 (base 16) Wesung TNC Co., Ltd.
102-1409, Bucheon Chunui Technopark 1st,
Bucheon-City, Gyeongggi-Do 420-857
KR

00-21-B5 (hex) Galvanic Ltd

0021B5 (base 16) Galvanic Ltd
38 Nothumberland Road
Dublin 2
IE

00-21-49 (hex) China Daheng Group ,Inc.
002149 (base 16) China Daheng Group ,Inc.
12F Daheng Science & Technology Tower ,NO.3 Suzhou Str.
Beijing 100080
CN

00-1F-F9 (hex) Advanced Knowledge Associates
001FF9 (base 16) Advanced Knowledge Associates
3350 Scott Blvd, Suite 40
Santa Clara CA 95054-3119
US

00-21-26 (hex) Shenzhen Torch Equipment Co., Ltd.
002126 (base 16) Shenzhen Torch Equipment Co., Ltd.
Floor 5, Block 3, Liming Industrial District, Zhongshanyuan Road, Nanshan,
Shenzhen Guangdong
518052
CN

00-21-1C (hex) Cisco Systems, Inc
00211C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-21-18 (hex) Athena Tech, Inc.
002118 (base 16) Athena Tech, Inc.
3721 Macintosh Dr
Warrenton VA 20187
US

00-1F-C5 (hex) Nintendo Co., Ltd.
001FC5 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

00-1F-C0 (hex) Control Express Finland Oy
001FC0 (base 16) Control Express Finland Oy
Laitaatsillantie 3
Savonlinna 57170
FI

00-21-13 (hex) Padtec S/A
002113 (base 16) Padtec S/A
Road Campinas Mogi-Mirim km 118,5
Campinas São Paulo 13086-902
BR

00-21-12 (hex) WISCOM SYSTEM CO.,LTD
002112 (base 16) WISCOM SYSTEM CO.,LTD
100 Jiangjun Road,Jiangning,
Nanjing 211100
CN

00-21-0E (hex) Orpak Systems L.T.D.
00210E (base 16) Orpak Systems L.T.D.
31 Lechi St
Bnei - Brak 51114
IL

00-1F-F4
(hex) Power Monitors, Inc.
001FF4 (base 16) Power Monitors, Inc.
800 North Main Street
Mt. Crawford Virginia 22841
US

00-1F-ED (hex) Tecan Systems Inc.
001FED (base 16) Tecan Systems Inc.
2450 Zanker Road
San Jose CA 95131
US

00-21-22 (hex) Chip-pro Ltd.
002122 (base 16) Chip-pro Ltd.
5F.-4, No.63, Siwei Rd., North District,
Hsinchu 300
TW

00-21-25 (hex) KUK JE TONG SHIN Co.,LTD
002125 (base 16) KUK JE TONG SHIN Co.,LTD
476-3
Incheon Kwangyouk-Si 407-060
KR

00-1F-E5 (hex) In-Circuit GmbH
001FE5 (base 16) In-Circuit GmbH
Königsbrücker Strasse 69
Dresden 01099
DE

00-1F-BC (hex) EVGA Corporation
001FBC (base 16) EVGA Corporation
2900 Saturn St.
Brea CA 92821
US

00-1F-BD (hex) Kyocera Wireless Corp.
001FBD (base 16) Kyocera Wireless Corp.
10300 Campus Point Drive
San Diego CA 92121
US

00-1F-B9 (hex) Paltronics
001FB9
(base 16) Paltronics
1145 Paltronics Ct
Crystal Lake IL 60014
US

00-1F-B7 (hex) WiMate Technologies Corp.
001FB7 (base 16) WiMate Technologies Corp.
14A Building 2, Guimiao Garden, Nanguanglu, Nanshan District
Shenzhen Guangdong 518054
CN

00-1F-B4 (hex) SmartShare Systems
001FB4 (base 16) SmartShare Systems
Tonsbakken 16-18
Skovlunde DK-2740
DK

00-1F-B6 (hex) Chi Lin Technology Co., Ltd.
001FB6 (base 16) Chi Lin Technology Co., Ltd.
No.18, Sheng Li 1st St., Jen Te Hsiang,
Tainan Taiwan 71758
CN

00-1F-AF (hex) NextIO, Inc.
001FAF (base 16) NextIO, Inc.
8303 N MoPac Expressway
Austin TX 78759
US

00-1F-AA (hex) Taseon, Inc.
001FAA (base 16) Taseon, Inc.
3099 N. First Street
San Jose CA 95134

US

00-1F-66 (hex) PLANAR LLC
001F66 (base 16) PLANAR LLC
32, Elkina str
Chelyabinsk SU 454091
RU

00-1F-5F (hex) Blatand GmbH
001F5F
(base 16) Blatand GmbH
Lichtenbergstrße 8
Garching Bavaria 85748
DE

00-1F-57 (hex) Phonik Innovation Co.,LTD
001F57 (base 16) Phonik Innovation Co.,LTD
29/167 Moo2, 345 Rd, Lampo,
Nonthaburi 11110
TH

00-1F-59 (hex) Kronback Tracers
001F59 (base 16) Kronback Tracers
c/o DTU, R254
Ballerup Copenhagen 2750
DK

00-1F-8D (hex) Ingenieurbuero Stark GmbH und Ko. KG
001F8D (base 16) Ingenieurbuero Stark GmbH und Ko. KG
Rudolf-Diesel-Strasse 44
Laichingen BW 89150
DE

00-1F-8F (hex) Shanghai Bellmann Digital Source Co.,Ltd.
001F8F (base 16) Shanghai Bellmann Digital Source Co.,Ltd.
404-408 Main Bd, FDUSP, No.11 Guotai Rd.
Shanghai 200433
CN

00-1F-84 (hex) Gigle Semiconductor
001F84 (base 16) Gigle Semiconductor
Barcelona Activa - Vivero Glorias
Barcelona 08018
ES

00-1F-7B (hex) TechNexion Ltd.
001F7B (base 16) TechNexion Ltd.
17F-1, No. 16, Jian Ba

Road,
Chung Ho Taipei 235
TW

00-1F-7D (hex) Embedded Wireless GmbH
001F7D (base 16) Embedded Wireless GmbH
Soeflinger Strasse 200
Ulm BW 89077
DE

00-1F-74 (hex) Eigen Development
001F74 (base 16) Eigen Development
1807 W10th Ave
Vancouver BC V6J 2A9
CA

00-1F-75 (hex) GiBahn Media
001F75 (base 16) GiBahn Media
1816 Rosedale Suseo-dong
Seoul 135-885
KR

00-1F-6E (hex) Vtech Engineering Corporation
001F6E (base 16) Vtech Engineering Corporation
20 New England Business Center
Andover MA 01810
US

00-1F-43 (hex) ENTES ELEKTRONIK
001F43 (base 16) ENTES ELEKTRONIK
Y. Dudullu Org. San. Bol. And Sanayi Sit. No.6
Istanbul Dudullu 34775
TR

00-1F-4E (hex) ConMed Linvatec
001F4E (base 16) ConMed Linvatec
11311 Concept Blvd.
Largo FL 33773
US

00-1F-4A (hex) Albentia Systems S.A.
001F4A (base 16) Albentia Systems S.A.
Albala 13
Madrid
28037
ES

00-1F-9E (hex) Cisco Systems, Inc

001F9E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1F-A0 (hex) A10 Networks
001FA0 (base 16) A10 Networks
3 West Plumeria Drive
San Jose CA 95134
US

00-1E-D8 (hex) Digital United Inc.
001ED8 (base 16) Digital United Inc.
9F, No.220, Gangcian Rd.
Taipei 11444
TW

00-1E-F7 (hex) Cisco Systems, Inc
001EF7 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1E-E6 (hex) Shenzhen Advanced Video Info-Tech Co., Ltd.
001EE6 (base 16) Shenzhen Advanced Video Info-Tech Co., Ltd.
Tianxiang 11A, Tian'an Cyber Park , Futian
Shenzhen Guangdong 518048
CN

00-1E-B3 (hex) Primex Wireless
001EB3 (base 16) Primex Wireless
965 Wells Street
Lake Geneva WI 53147
US

00-1E-B6 (hex) TAG Heuer SA
001EB6 (base 16) TAG Heuer SA
Rue Louis-Joseph Chevrolet 6A
la Chaux-de-Fonds
NE 2300
CH

00-1E-AC (hex) Armadeus Systems
001EAC (base 16) Armadeus Systems
Business Campus
MULHOUSE cedex Haut-Rhin 68058
FR

00-1E-AA (hex) E-Senza Technologies GmbH
001EAA (base 16) E-Senza Technologies GmbH
Blarerstrasse 56
Konstanz BW 78462
DE

00-1E-C6 (hex) Obvius Holdings LLC
001EC6 (base 16) Obvius Holdings LLC
20811 NW Cornell Road
Hillsboro OR 97124
US

00-1E-C4 (hex) Celio Corp
001EC4 (base 16) Celio Corp
265 E 100 S # 280
Salt Lake City UT 84111
US

00-1E-C1 (hex) 3COM EUROPE LTD
001EC1 (base 16) 3COM EUROPE LTD
Peoplebuilding 2
Hemel Hempstead HERTS. HP2 4NW
GB

00-1E-BB (hex) BLUELIGHT TECHNOLOGY INC.
001EBB (base 16) BLUELIGHT TECHNOLOGY INC.
6472 CAMDEN AVE., SUITE 102B
SAN JOSE CA 95120
US

00-1E-B5 (hex) Ever Sparkle Technologies Ltd
001EB5 (base 16) Ever Sparkle Technologies Ltd
Unit 403, Nan Fung Commercial
Centre
Kowloon Bay Kowloon
HK

00-1F-0E (hex) Japan Kyastem Co., Ltd
001F0E (base 16) Japan Kyastem Co., Ltd
1-4-4
Tachikawa Tokyo 190-0022
JP

00-1F-0B (hex) Federal State Unitary Enterprise Industrial UnionElectropribor
001F0B (base 16) Federal State Unitary Enterprise Industrial UnionElectropribor

Penza 440011
RU

00-1F-0C (hex) Intelligent Digital Services GmbH
001F0C (base 16) Intelligent Digital Services GmbH
Grevesmuehlener Strasse 8
Mallentin Mecklenburg-Vorpommern 23639
DE

00-1F-1E (hex) Astec Technology Co., Ltd
001F1E (base 16) Astec Technology Co., Ltd
12F, No.2, Jian Ba Rd.
Chung Ho Taipei Hsien 235
TW

00-1F-14 (hex) NexG
001F14 (base 16) NexG
5F Seoul Academy Bldg, Daechi-Dong, Gangnam-Gu,
Seoul 135-280
KR

00-1E-D6 (hex) Alentec & Orion AB
001ED6 (base 16) Alentec & Orion AB
Grustagsvägen 4
138 40 ÄLTA
SE

00-1F-08 (hex) RISCO
LTD
001F08 (base 16) RISCO LTD
32 Hacharoshet St
Kiriat Malachi 83101
IL

00-1E-F1 (hex) Servimat
001EF1 (base 16) Servimat
ZAET Les Haies
St Maximin Oise 60740
FR

00-1E-F4 (hex) L-3 Communications Display Systems
001EF4 (base 16) L-3 Communications Display Systems
1355 Bluegrass Lakes Parkway
Alpharetta GA 30004-8458
US

00-1E-F5 (hex) Hitek Automated Inc.
001EF5 (base 16) Hitek Automated Inc.
Room C3-901, No.383, Huamen Shijia
Hangzhou 310012

CN

00-1F-28 (hex) HPN Supply Chain
001F28 (base 16) HPN Supply Chain
8000 Foothills Blvd
Roseville CA 95747
US

00-1E-8B (hex) Infra Access Korea Co., Ltd.
001E8B (base 16) Infra Access Korea Co., Ltd.
#902, Sambo Saving Bank B/D,
Kwanak-gu, Seoul 151-830
KR

00-1E-85 (hex) Lagotek Corporation
001E85 (base 16) Lagotek Corporation
11661 SE 1st St. #208
Bellevue WA 98005
US

00-1E-77
(hex) Air2App
001E77 (base 16) Air2App
50 Old Forge Rd
Hanover MA 02339
US

00-1E-7B (hex) R.I.CO. S.r.l.
001E7B (base 16) R.I.CO. S.r.l.
via Adriatica, 17
Castelfidardo AN 60022
IT

00-1E-6E (hex) Shenzhen First Mile Communications Ltd
001E6E (base 16) Shenzhen First Mile Communications Ltd
5th Floor, Block R3-A
Shenzhen Guangdong 518057
CN

00-1E-55 (hex) COWON SYSTEMS,Inc.
001E55 (base 16) COWON SYSTEMS,Inc.
6th Fl. COWON TOWER,689-3,
Seoul 135-080
KR

00-1E-56 (hex) Bally Wulff Entertainment GmbH
001E56 (base 16) Bally Wulff Entertainment GmbH
Maybachufer 48-51

Berlin 12045
DE

00-1E-57 (hex) ALCOMA, spol. s r.o.
001E57 (base 16) ALCOMA, spol. s r.o.
Klukovice 313, Praha - 5
Praha 152 00
CZ

00-1E-50 (hex) BATTISTONI RESEARCH
001E50 (base 16) BATTISTONI RESEARCH
PARCO DONICA 56
FISCIANO SALERNO 84084
IT

00-1E-9C (hex) Fidustron
INC
001E9C (base 16) Fidustron INC
NO.770-6, Jhongiheng Rd.
Jhonghe City Taipei County 235
TW

00-1E-97 (hex) Medium Link System Technology CO., LTD,
001E97 (base 16) Medium Link System Technology CO., LTD,
11F.-2, No.7, Alley 92, Lane 77, Sec. 4, Sinhai Rd.,
Wunshan District, Taipei 11693
TW

00-1E-34 (hex) CryptoMetrics
001E34 (base 16) CryptoMetrics
160 Michael Cowpland Dr
Ottawa Ontario K2M 1P6
CA

00-1E-2D (hex) STIM
001E2D (base 16) STIM
ZAC les COUSTELLIERS
CASTRIES HERAULT 34160
FR

00-1E-3F (hex) TrellisWare Technologies, Inc.
001E3F (base 16) TrellisWare Technologies, Inc.
16516 Via Esprillo, Suite 300
San Diego CA 92127
US

00-1E-41 (hex) Microwave Communication & Component, Inc.
001E41 (base 16) Microwave Communication & Component, Inc.

#204, WOOLIM LION`S VALLEY 2, 680
Seoul 150-787
KR

00-1E-11 (hex) ELELUX INTERNATIONAL LTD
001E11
(base 16) ELELUX INTERNATIONAL LTD
3F., NO.103 CHOW TZE STREET
TAIPEI 114
TW

00-1E-6D (hex) IT R&D Center
001E6D (base 16) IT R&D Center
461-25, Jeonmin-dong,Yuseong-Gu
Daejeon 305-811
KR

00-1D-F2 (hex) Netflix, Inc.
001DF2 (base 16) Netflix, Inc.
100 Winchester Circle
Los Gatos CA 95032
US

00-1D-EF (hex) TRIMM, INC.
001DEF (base 16) TRIMM, INC.
407 RAILROAD STREET
BUTNER NC 27509
US

00-1D-F1 (hex) Intego Systems, Inc.
001DF1 (base 16) Intego Systems, Inc.
5343 Bowden Road
Jacksonville FL 32216
US

00-1D-ED (hex) Grid Net, Inc.
001DED (base 16) Grid Net, Inc.
340 Brannan Street
San Francisco CA 94107
US

00-1D-D8 (hex) Microsoft Corporation
001DD8 (base 16) Microsoft Corporation
One Microsoft Way
Redmond Washington 98052-6399
US

00-1D-C8 (hex) Navionics Research Inc., dba SCADAmetrics

001DC8 (base 16) Navionics Research Inc.,
dba SCADAmetrics
1133 Pond Road
Wildwood Missouri 63038
US

00-1D-CC (hex) Ayon Cyber Security, Inc
001DCC (base 16) Ayon Cyber Security, Inc
2350 Commerce Park Dr.
Palm Bay FL 32905
US

00-1D-C3 (hex) RIKOR TV, Ltd
001DC3 (base 16) RIKOR TV, Ltd
Kostomarovsky per.,3
Moscow 105120
RU

00-1D-B2 (hex) HOKKAIDO ELECTRIC ENGINEERING CO.,LTD.
001DB2 (base 16) HOKKAIDO ELECTRIC ENGINEERING CO.,LTD.
Nishinopporo 120-8
Ebetu-City Hokkaido 069-0832
JP

00-1D-AD (hex) Sinotech Engineering Consultants, Inc. Geotechnical Enginee
001DAD (base 16) Sinotech Engineering Consultants, Inc. Geotechnical Enginee
Basement No.7 Lane 26, Yat-Sen Rd.
Taipei 110
TW

00-1D-AB (hex) SwissQual License AG
001DAB (base 16) SwissQual License AG
Baarerstrasse 78
Zug Postfach 117
CH

00-1D-FC (hex) KSIC
001DFC (base 16) KSIC
#6F, Korea Federation of Teacher's Associations, 114-1,
TaeBong-Ro,
Seoul Seocho-Ku 137-715
KR

00-1D-92 (hex) MICRO-STAR INT'L CO.,LTD.
001D92 (base 16) MICRO-STAR INT'L CO.,LTD.
No.69,Li-De St,Jung-Ho City
Taipei Hsien 235
TW

00-1D-8A (hex) TechTrex Inc
001D8A (base 16) TechTrex Inc
6221 Highway 7, Unit 12
Woodbridge Ontalio L4H 0K8
CA

00-1D-C1 (hex) Audinate Pty L
001DC1 (base 16) Audinate Pty L
Level 1, 458 Wattle St
Ultimo NSW 2007
AU

00-1D-A0 (hex) Heng Yu Electronic Manufacturing Company Limited
001DA0 (base 16) Heng Yu Electronic Manufacturing Company Limited
Room 1503-5, Nan Fung Com'l Centre,
Kowloon
HK

00-1D-53 (hex) S&O Electronics (Malaysia) Sdn. Bhd.
001D53 (base 16) S&O Electronics (Malaysia) Sdn. Bhd.
Lot 202, Bakar Arang
08000 Sungai Petani Kedah
MY

00-1D-54 (hex) Sunnic Technology & Merchandise INC.
001D54 (base 16) Sunnic Technology & Merchandise INC.
6F, NO.74,ZHOU-Z ST.,
Taipei
114
TW

00-1D-4B (hex) Grid Connect Inc.
001D4B (base 16) Grid Connect Inc.
1630 W. Diehl Rd
Naperville IL 60563
US

00-1D-4D (hex) Adaptive Recognition Hungary, Inc
001D4D (base 16) Adaptive Recognition Hungary, Inc
Kiralyhago ter 8-9
Budapest Europe 1126
HU

00-1D-87 (hex) VigTech Labs Sdn Bhd
001D87 (base 16) VigTech Labs Sdn Bhd
45-11 The Boulevard Mid Valley City
Kuala Lumpur Selangor 59200

MY

00-1D-80 (hex) Beijing Huahuan Eletronics Co.,Ltd
001D80 (base 16) Beijing Huahuan Eletronics Co.,Ltd
No.26,Shangdi 6th St.Haidian District,
Beijing 100085
CN

00-1D-83 (hex) Emitech Corporation
001D83 (base 16) Emitech Corporation
2F,No.7-1,Industry E,Rd.9
Hsinchu 308
TW

00-1D-74 (hex) Tianjin China-Silicon Microelectronics Co., Ltd.
001D74 (base 16) Tianjin China-Silicon Microelectronics Co., Ltd.
301,3F Building 211,No.214 Hongqi Road, Nankai District, Tianjin
China
Tianjin 300190
CN

00-1D-6D (hex) Confidant International LLC
001D6D (base 16) Confidant International LLC
2530 Meridian Pkwy
Durham North Carolina 27713
US

00-1D-7C (hex) ABE Elettronica S.p.A.
001D7C (base 16) ABE Elettronica S.p.A.
Via Leonardo da Vinci, 92
CARAVAGGIO BG 24043
IT

00-1D-75 (hex) Radioscape PLC
001D75 (base 16) Radioscape PLC
1 Albany Terrace
Regent's Park London NW1 4DS
GB

00-1D-05 (hex) Cooper Lighting Solutions
001D05 (base 16) Cooper Lighting Solutions
1121 Highway 74 S
Peachtree City GA 30269
US

00-1C-FF (hex) Napera Networks Inc
001CFF (base 16) Napera Networks Inc
7683 SE 27th

Mercer Island WA 98040
US

00-1D-1D (hex) Inter-M Corporation
001D1D (base 16) Inter-M Corporation
653-5 Banghak-Dong, Dobong-Ku
Seoul 132-846
KR

00-1D-0E (hex) Agapha Technology co., Ltd.
001D0E (base 16) Agapha Technology
co., Ltd.
9F No.121, Shingde Rd.,
Sanchung City Taipei County 241
TW

00-1D-0A (hex) Davis Instruments, Inc.
001D0A (base 16) Davis Instruments, Inc.
3465 Diablo Ave.
Hayward CA 94545
US

00-1D-5F (hex) OverSpeed SARL
001D5F (base 16) OverSpeed SARL
15, allee du Bois Cailley
Le Thuit-Signol Normandie 27370
FR

00-1D-58 (hex) CQ Inc
001D58 (base 16) CQ Inc
5F, No. 43, Lane 76, Rui Guang Road
Taipei 114
TW

00-1D-2F (hex) QuantumVision Corporation
001D2F (base 16) QuantumVision Corporation
335 Plantation Way
Roswell Ga 30075
US

00-1C-E5 (hex) MBS Electronic Systems GmbH
001CE5 (base 16) MBS Electronic Systems GmbH
Ringstrasse 3
82319 Starnberg Bavaria 82319
DE

00-1C-DD (hex) COWBELL ENGINEERING CO., LTD.
001CDD (base 16) COWBELL ENGINEERING CO., LTD.

1739-1 Nagatoro
SAKU Nagano 385-0021
JP

00-1C-DC (hex) Custom Computer Services, Inc.
001CDC
(base 16) Custom Computer Services, Inc.
1020 Spring City Drive
Waukesha WI 53186
US

00-1C-64 (hex) Landis+Gyr
001C64 (base 16) Landis+Gyr
30000 Mill Creek Ave. Suite 100
Alpharetta GA 30022
US

00-1C-57 (hex) Cisco Systems, Inc
001C57 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1C-C2 (hex) Part II Research, Inc.
001CC2 (base 16) Part II Research, Inc.
4601 E. Airport Dr.
Ontario CA 91761
US

00-1C-BD (hex) Ezze Mobile Tech., Inc.
001CBD (base 16) Ezze Mobile Tech., Inc.
3F, Bubmusa Bldg., 151-31
Seoul 135-824
KR

00-1C-B8 (hex) CBC Co., Ltd
001CB8 (base 16) CBC Co., Ltd
2-15-13, Tsukishima, Chuo-ku
Tokyo 104-0052
JP

00-1C-BA (hex) VerScient, Inc.
001CBA (base 16) VerScient, Inc.
7700 Equitable Drive
Eden Prairie MN 55344
US

00-1C-B0 (hex) Cisco Systems, Inc

001CB0 (base 16) Cisco Systems,
Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1C-D1 (hex) Waves Audio LTD
001CD1 (base 16) Waves Audio LTD
Azrilei Center 3, Triangle tower
Tel Aviv Central 67023
IL

00-1C-84 (hex) STL Solution Co.,Ltd.
001C84 (base 16) STL Solution Co.,Ltd.
#710, World Meridian Venture Center I
Seoul 152781
KR

00-1C-79 (hex) Cohesive Financial Technologies LLC
001C79 (base 16) Cohesive Financial Technologies LLC
200 South Wacker Dr.
Chicago IL 60606
US

00-1C-6D (hex) KYOHRITSU ELECTRONIC INDUSTRY CO., LTD.
001C6D (base 16) KYOHRITSU ELECTRONIC INDUSTRY CO., LTD.
2-5-1, NIPPONBASHI-NISHI,
OSAKA 556-0004
JP

00-1C-ED (hex) ENVIRONNEMENT SA
001CED (base 16) ENVIRONNEMENT SA
111 bd. Robespierre
POISSY Yvelines 78300
FR

00-1C-8B (hex) MJ Innovations Ltd.
001C8B (base 16) MJ Innovations Ltd.
333 Wyecroft Road
Oakville Ontario L6K 2H2
CA

00-1C-82 (hex) Genew
Technologies
001C82 (base 16) Genew Technologies
3A3 Building B1, Cyber-tech Zone,
Shenzhen Guangdong 518057
CN

00-1C-9D (hex) Liecthi AG
001C9D (base 16) Liecthi AG
10 Unterholz Street
Kriegstetten Solothurn 4566
CH

00-1C-96 (hex) Linkwise Technology Pte Ltd
001C96 (base 16) Linkwise Technology Pte Ltd
Blk 3, Ang Mo Kio Industrial Park 2A
568050
SG

00-1C-AC (hex) Qniq Technology Corp.
001CAC (base 16) Qniq Technology Corp.
5F, No.133, Sec.4, Minsheng E. Rd.,
Taipei 105
TW

00-1C-A5 (hex) Zygo Corporation
001CA5 (base 16) Zygo Corporation
21 Laurel Brook Rd.
Middlefield CT 06455
US

00-1C-29 (hex) CORE DIGITAL ELECTRONICS CO., LTD
001C29 (base 16) CORE DIGITAL ELECTRONICS CO., LTD
1006# 102 CHUNUITECHNOPARK 200-1
BUCHEON-CITY GYUNGGI-DO 420-857
KR

00-1C-24 (hex) Formosa Wireless Systems Corp.
001C24 (base 16) Formosa Wireless Systems Corp.
No.
408, Guandong Rd.,
HsinChu City 300
TW

00-1C-20 (hex) CLB Benelux
001C20 (base 16) CLB Benelux
Ramgatseweg 17
Raamsdonksveer NBR 4941 VN
NL

00-1C-1C (hex) Center Communication Systems GmbH
001C1C (base 16) Center Communication Systems GmbH
Ignaz-Koeck-Strasse 19
Vienna A-1210

AT

00-1C-15 (hex) iPhotonix LLC
001C15 (base 16) iPhotonix LLC
2600 N Central Expressway
Richardson Texas 75080
US

00-1C-4C (hex) Petrotest Instruments
001C4C (base 16) Petrotest Instruments
Ludwig-Erhard-Ring 13
Dahlewitz BBG 15827
DE

00-1C-3C (hex) Seon Design Inc.
001C3C (base 16) Seon Design Inc.
111-3B Burbidge Street
Coquitlam BC V3K 7B2
CA

00-1C-5D (hex) Leica Microsystems
001C5D (base 16) Leica Microsystems
Lothbury House Cambridge Technopark
Cambridge CB5 8PB
GB

00-1C-5E (hex) ASTON France
001C5E (base 16) ASTON France
151 Avenue Gallieni
BAGNOLET
ile de france 93177
FR

00-1C-5B (hex) Chubb Electronic Security Systems Ltd
001C5B (base 16) Chubb Electronic Security Systems Ltd
Shadsworth Road
Blackburn Lancashire BB1 2PR
GB

00-1C-55 (hex) Shenzhen Kaifa Technology Co.
001C55 (base 16) Shenzhen Kaifa Technology Co.
7006 Caitian Road, Futian District,
Shenzhen Guangdong 518035
CN

00-1C-44 (hex) Bosch Security Systems BV
001C44 (base 16) Bosch Security Systems BV
Kapittelweg 10

4827 HG Breda Brabant 4827
NL

00-1B-D1 (hex) SOGESTMATIC
001BD1 (base 16) SOGESTMATIC
409 Route de la Gare
CHATEAUNEUF DE GADAGNE PACA 84470
FR

00-1B-D6 (hex) Kelvin Hughes Ltd
001BD6 (base 16) Kelvin Hughes Ltd
New North Road
Ilford Essex IG6 2UR
GB

00-1B-CF (hex) Dataupia Corporation
001BCF (base 16) Dataupia Corporation
One Alewife Center
Cambridge MA 02140
US

00-1B-CB (hex) PEMPEK SYSTEMS
PTY LTD
001BCB (base 16) PEMPEK SYSTEMS PTY LTD
UNIT 3 / 13 HOYLE AVENUE
CASTLE HILL NSW 2154
AU

00-1B-BD (hex) FMC Kongsberg Subsea AS
001BBD (base 16) FMC Kongsberg Subsea AS
Kirkegaardsveien 45
Kongsberg Buskerud 3601
NO

00-1B-BE (hex) ICOP Digital
001BBE (base 16) ICOP Digital
16801 W. 116th St.
Lenexa KS 66219
US

00-1B-B3 (hex) Condalo GmbH
001BB3 (base 16) Condalo GmbH
Kohlstatt 3
Lichtenau Bavaria 86706
DE

00-1B-B7 (hex) Alta Heights Technology Corp.
001BB7 (base 16) Alta Heights Technology Corp.

108 Alta Heights Court
Los Gatos California 95030
US

00-1C-07 (hex) Cwlinux Limited
001C07 (base 16) Cwlinux Limited
Unit 138, 13/F, Weswick Commercial Building,
Wan Chai
HK

00-1C-00 (hex) Entry Point, LLC
001C00 (base 16) Entry Point, LLC
735 Robins
Idaho Falls Idaho 83401
US

00-1B-FD (hex) Dignsys Inc.
001BFD (base 16) Dignsys
Inc.
14F, Digital Empire Bldg., B-1408
Suwon Gyeonggi-do 443-813
KR

00-1B-E2 (hex) AhnLab,Inc.
001BE2 (base 16) AhnLab,Inc.
6th Fl, CCMM Bldg, 12 Yeouido-dong
Seoul 150869
KR

00-1B-E0 (hex) TELENOT ELECTRONIC GmbH
001BE0 (base 16) TELENOT ELECTRONIC GmbH
Wiesentalstraße 42
Aalen Baden-Württemberg 73434
DE

00-1B-DA (hex) UTStarcom Inc
001BDA (base 16) UTStarcom Inc
1275 Harbor Bay PKWY
Alameda CA 94502
US

00-1C-31 (hex) Mobile XP Technology Co., LTD
001C31 (base 16) Mobile XP Technology Co., LTD
Room No.2506,Tri-tower C building,No.66 Zhongguancun East Road,Haidian District
Beijing 100080
CN

00-1C-34 (hex) HUEY CHIAO INTERNATIONAL CO., LTD.

001C34 (base 16) HUEY CHIAO INTERNATIONAL CO., LTD.
5F, NO. 649-1,
HSIN CHUANG CITY TAIPEI 242
TW

00-1C-36 (hex) iNEWiT NV
001C36 (base 16) iNEWiT NV
Schaliënhoevedreef 20D
Mechelen Antwerp 2800
BE

00-1B-F5
(hex) Tellink Sistemas de Telecomunicación S.L.
001BF5 (base 16) Tellink Sistemas de Telecomunicación S.L.
C/ María Tubau Nº 5 Bajo B
Madrid 28050
ES

00-1B-E6 (hex) VR AG
001BE6 (base 16) VR AG
Rütistrasse 18
Schlieren CH-8952
CH

00-1B-AC (hex) Curtiss Wright Controls Embedded Computing
001BAC (base 16) Curtiss Wright Controls Embedded Computing
10201 Wateridge Circle
San Diego CA 92121
US

00-1B-8C (hex) JMicron Technology Corp.
001B8C (base 16) JMicron Technology Corp.
1F, No.13, Innovation Road 1
Hsinchu 300
TW

00-1B-91 (hex) EFKON AG
001B91 (base 16) EFKON AG
Dietrich-Keller-Strasse 20
8074 Raaba
AT

00-1B-89 (hex) EMZA Visual Sense Ltd.
001B89 (base 16) EMZA Visual Sense Ltd.
20 Ha'ta'as St., Beith Hapamon
Kfar Saba 44425
IL

00-1B-8B (hex) NEC Platforms, Ltd.
001B8B (base 16) NEC Platforms, Ltd.
800 Shimomata
Kakegawa
Shizuoka 436-8501
JP

00-1B-82 (hex) Taiwan Semiconductor Co., Ltd.
001B82 (base 16) Taiwan Semiconductor Co., Ltd.
11F, No. 205, Sec. 3, Beishin Rd,
Shindian Taipei 231
TW

00-1B-85 (hex) MAN Energy Solutions
001B85 (base 16) MAN Energy Solutions
Teglholmsgade 41
Copenhagen 2450
DK

00-1B-7B (hex) The Tintometer Ltd
001B7B (base 16) The Tintometer Ltd
Solar Way
Amesbury Wiltshire SP4 7SZ
GB

00-1B-67 (hex) Cisco Systems Inc
001B67 (base 16) Cisco Systems Inc
The Stella Building
Swindon Wiltshire SN5 6NX
GB

00-1B-66 (hex) Sennheiser electronic GmbH & Co. KG
001B66 (base 16) Sennheiser electronic GmbH & Co. KG
Am Labor 1
Wedemark Niedersachsen 30900
DE

00-1B-60 (hex) NAVIGON AG
001B60 (base 16) NAVIGON AG
Berliner Platz 11
Wuerzburg Bavaria 97080
DE

00-1B-A3 (hex) Flexit Group GmbH
001BA3 (base 16) Flexit Group GmbH
Bräuhausstraße
14
Salzburg Salzburg 5020

AT

00-1B-9F (hex) Calyptech Pty Ltd
001B9F (base 16) Calyptech Pty Ltd
5/486 Lower Heidelberg Road
Heidelberg Victoria 3084
AU

00-1B-99 (hex) KS System GmbH
001B99 (base 16) KS System GmbH
Alexanderstraße 37
Muelheim NRW 45472
DE

00-1B-9A (hex) Apollo Fire Detectors Ltd
001B9A (base 16) Apollo Fire Detectors Ltd
36 Brookside Road
Havant Hampshire P09 1JR
GB

00-1B-49 (hex) Roberts Radio limited
001B49 (base 16) Roberts Radio limited
Swinton Works
Mexborough South Yorkshire S64 8AJ
GB

00-1B-4E (hex) Navman New Zealand
001B4E (base 16) Navman New Zealand
7-21 Kawana Street
Auckland 0627
NZ

00-1B-43 (hex) Beijing DG Telecommunications equipment Co.,Ltd
001B43 (base 16) Beijing DG Telecommunications equipment Co.,Ltd
No.5 Jiangtai Road, Chaoyang District
Beijing 100016
CN

00-1B-57 (hex) SEMINDIA SYSTEMS PRIVATE
LIMITED
001B57 (base 16) SEMINDIA SYSTEMS PRIVATE LIMITED
#1106/9,A.M.Industrial Estate,Garvebhai palya,
BANGALORE KARNATAKA 560068
IN

00-1B-55 (hex) Hurco Automation Ltd.
001B55 (base 16) Hurco Automation Ltd.
6F, No. 31, Shintai Rd.

Jubei City, Hsinchu Hsien 30244
TW

00-1B-53 (hex) Cisco Systems, Inc
001B53 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1B-3C (hex) Software Technologies Group,Inc.
001B3C (base 16) Software Technologies Group,Inc.
10330 W. Roosevelt Road
Weschester IL 60154
US

00-1B-3D (hex) EuroTel Spa
001B3D (base 16) EuroTel Spa
viale Martiri della Liberta,4
Lissone Milan 20035
IT

00-1B-31 (hex) Neural Image. Co. Ltd.
001B31 (base 16) Neural Image. Co. Ltd.
A307, CASI, Osaka Univ.
Suita city Osaka 565-0871
JP

00-1B-75 (hex) Hypermedia Systems
001B75 (base 16) Hypermedia Systems
2B Bergman
St.
Rehovot 76705
IL

00-1B-6A (hex) Powerwave Technologies Sweden AB
001B6A (base 16) Powerwave Technologies Sweden AB
164 26
Knarrarnäsgatan 7, Kista
SE

00-1A-E6 (hex) Atlanta Advanced Communications Holdings Limited
001AE6 (base 16) Atlanta Advanced Communications Holdings Limited
1900 West Oak Circle, Marietta
Atlanta Georgia 30062
US

00-1A-D9 (hex) International Broadband Electric Communications, Inc.
001AD9 (base 16) International Broadband Electric Communications, Inc.

285 Dunlop Blvd. SW
Huntsville AL 35824
US

00-1B-29 (hex) Avantis.Co.,Ltd
001B29 (base 16) Avantis.Co.,Ltd
502 SEOIL BLDG.
SEOUL 132-872
KR

00-1B-28 (hex) POLYGON, JSC
001B28 (base 16) POLYGON, JSC
37/1, Karl Marx str., floor 5
Ufa Bashkortostan 450077
RU

00-1B-2B (hex) Cisco Systems, Inc
001B2B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1B-27
(hex) Merlin CSI
001B27 (base 16) Merlin CSI
12625 Danielson Court
Poway CA 92064
US

00-1B-1B (hex) Siemens AG,
001B1B (base 16) Siemens AG,
I IA SC MF-K PE 3
76187 Karlsruhe Baden Wuerttemberg
DE

00-1B-1F (hex) FORCE Technology
001B1F (base 16) FORCE Technology
Venlighedsvej 4
Horsholm 2970
DK

00-1A-C8 (hex) ISL (Instrumentation Scientifique de Laboratoire)
001AC8 (base 16) ISL (Instrumentation Scientifique de Laboratoire)
Impasse des 4 vents
VERSON CALVADOS 14790
FR

00-1B-0E (hex) InoTec GmbH Organisationssysteme

001B0E (base 16) InoTec GmbH Organisationssysteme
Biedrichstrasse 11
Woelfersheim Hessen D-61200
DE

00-1B-04 (hex) Affinity International S.p.a
001B04 (base 16) Affinity International S.p.a
C.so Savona 51
Villastellone I10029
IT

00-1B-06 (hex) Ateliers R. LAUMONIER
001B06 (base 16) Ateliers R. LAUMONIER
Ateliers
R. LAUMONIER
Nesles-la-Vallée Val d'Oise 95690
FR

00-1A-AB (hex) eWings s.r.l.
001AAB (base 16) eWings s.r.l.
via S. Quasimodo 46
Castel Maggiore Bologna 40013
IT

00-1A-AC (hex) Corelatus AB
001AAC (base 16) Corelatus AB
Tegnergatan 37
Stockholm 11161
SE

00-1A-AF (hex) BLUSENS TECHNOLOGY
001AAF (base 16) BLUSENS TECHNOLOGY
EDIFICIO CNL,- AV.
15707 - SANTIAGO DE COMPOSTELA A Coruña
ES

00-1B-05 (hex) YMC AG
001B05 (base 16) YMC AG
Sonnenstrasse 4
Kreuzlingen Thurgau 8280
CH

00-1A-FF (hex) Wizyoung Tech.
001AFF (base 16) Wizyoung Tech.
9F, No. 25, Sec. 1, Nanjing E. Rd.
Taipei 104
TW

00-1B-00 (hex) Neopost Technologies
001B00 (base 16) Neopost Technologies
113 rue Jean-Marin Naudin
Bagneux 92220
FR

00-1B-16 (hex) Celtro Ltd.
001B16 (base 16) Celtro Ltd.
Azorim Business Park
Petach Tikva 49527
IL

00-1A-C6 (hex) Micro
Control Designs
001AC6 (base 16) Micro Control Designs
17490 Caribou Dr
Monument Co. 80132
US

00-1A-F2 (hex) Dynavisions Schweiz AG
001AF2 (base 16) Dynavisions Schweiz AG
Freisinger Landstraße 21
D-80939 Muenchen
DE

00-1A-7D (hex) cyber-blue(HK)Ltd
001A7D (base 16) cyber-blue(HK)Ltd
Room 1408 block C stars Plaza HongLiRoad,FuTian District
Shenzhen GuangDong 518028
CN

00-1A-82 (hex) PROBA Building Automation Co.,LTD
001A82 (base 16) PROBA Building Automation Co.,LTD
Penghuan Building 501, Shangdi East Road #1, Haidian District,
Beijing 100085
CN

00-1A-7C (hex) Hirschmann Multimedia B.V.
001A7C (base 16) Hirschmann Multimedia B.V.
Pampuslaan 170
Weesp Noord-Holland 1382 JS
NL

00-1A-7A (hex) Lismore Instruments Limited
001A7A (base 16) Lismore Instruments Limited
Unit 2 Tristar Centre, Star Road
Horsham West Sussex RH13 8RA
GB

00-1A-78 (hex) ubtos
001A78
(base 16) ubtos
Rn.213, Woolim Lions Valley, #680
seoul Gasan-dong 153-803
KR

00-1A-76 (hex) SDT information Technology Co.,LTD.
001A76 (base 16) SDT information Technology Co.,LTD.
Samil B/B 2F, 5-63 Hyochang-dong
Seoul 140-896
KR

00-1A-70 (hex) Cisco-Linksys, LLC
001A70 (base 16) Cisco-Linksys, LLC
121 Theory Drive
Irvine California 92612
US

00-1A-56 (hex) ViewTel Co,. Ltd.
001A56 (base 16) ViewTel Co,. Ltd.
#B-502,Bundang Techno Park 148
BunDang-Ku, SeongNam-Si GyeongGi-Do 463-760
KR

00-1A-50 (hex) PheeNet Technology Corp.
001A50 (base 16) PheeNet Technology Corp.
Rm. 3, 20F, No. 79, Sec. 1 Hsin Tai Wu Rd.
Hsi-Chih New-Taipei City 221
TW

00-1A-53 (hex) Zylaya
001A53 (base 16) Zylaya
444 N. Frederick Ave.
Gaithersburg MD 20877
US

00-1A-4C (hex) Crossbow Technology, Inc
001A4C (base 16) Crossbow Technology, Inc
4145 N. First Street
San
Jose CA 95134
US

00-1A-61 (hex) PacStar Corp.
001A61 (base 16) PacStar Corp.
15055 SW Sequoia Pkwy, Suite 100

Portland OR 97006
US

00-1A-42 (hex) Techcity Technology co., Ltd.
001A42 (base 16) Techcity Technology co., Ltd.
4F, No. 4, Alley 1, Szu Wei Lane, Chung Cheng Rd.,
Hsin Tein City Taipei Hsien 231
TW

00-1A-65 (hex) Seluxit
001A65 (base 16) Seluxit
Sofiendalsvej 74
Aalborg SV 9200
DK

00-1A-54 (hex) Hip Shing Electronics Ltd.
001A54 (base 16) Hip Shing Electronics Ltd.
Unit 1/2/3, 20/F, New Treasure Center

HK

00-1A-60 (hex) Wave Electronics Co.,Ltd.
001A60 (base 16) Wave Electronics Co.,Ltd.
3th Fl.,DaeSan Plaza B/D,Guun-Dong, 12-1,Gwonseon-Gu
Suwon-si Kyeonggi-Do 441-814
KR

00-1A-A1 (hex) Cisco Systems, Inc
001AA1 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1A-B0 (hex) Signal Networks Pvt. Ltd.,
001AB0
(base 16) Signal Networks Pvt. Ltd.,
No.12, Kalpataru Apartments,
Bangalore Karnataka 560001
IN

00-19-F8 (hex) Embedded Systems Design, Inc.
0019F8 (base 16) Embedded Systems Design, Inc.
6810 Deerpath Road
Elkridge MD 21075
US

00-19-EF (hex) SHENZHEN LINNKING ELECTRONICS CO.,LTD
0019EF (base 16) SHENZHEN LINNKING ELECTRONICS CO.,LTD

Room 901,B Block,Qinghua Information Center Hi-tec park North District,Nanshan District,Shenzhen
shenzhen guangdong 518057
CN

00-19-F3 (hex) Cetis, Inc
0019F3 (base 16) Cetis, Inc
5025 Galley Rd
Colorado Springs CO 80915
US

00-19-F5 (hex) Imagination Technologies Ltd
0019F5 (base 16) Imagination Technologies Ltd
Home Park Estate
Kings Langley Hertfordshire WD4 8LZ
GB

00-19-F7 (hex) Onset Computer Corporation
0019F7 (base 16) Onset Computer Corporation
P.O. Box 3450
Pocasset MA 02559
US

00-19-EE (hex) CARLO GAVAZZI
CONTROLS SPA-Controls Division
0019EE (base 16) CARLO GAVAZZI CONTROLS SPA-Controls Division
Via Safforze 8
BELLUNO BL I-32100
IT

00-19-EB (hex) Pyronix Ltd
0019EB (base 16) Pyronix Ltd
Braithwell Way
Rotherham South Yorkshire S66 8QY
GB

00-19-E7 (hex) Cisco Systems, Inc
0019E7 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-19-E9 (hex) S-Information Technolgy, Co., Ltd.
0019E9 (base 16) S-Information Technolgy, Co., Ltd.
Sungwoo Bldg, 717-3 Suseo-dong,
Seoul 135-884
KR

00-19-DA (hex) Welltrans O&E Technology Co. , Ltd.

0019DA (base 16) Welltrans O&E Technology Co. , Ltd.
the 3rd Floor, building C-D, Hi-tech Digital Harbor, Guandong Industrial Park
Wuhan Hubei 430074
CN

00-19-D0 (hex) Cathexis
0019D0 (base 16) Cathexis
PO Box 1091
Durban KwaZulu Natal 4320
ZA

00-19-D6 (hex) LS Cable and System Ltd.
0019D6 (base 16) LS
Cable and System Ltd.
12F LS Tower, 1026-6, Hogey-dong
Anyang-si Gyeonggi-do 431-080
KR

00-19-D7 (hex) FORTUNETEK CO., LTD
0019D7 (base 16) FORTUNETEK CO., LTD
12F, No. 75, Sec 1, Chongqing S. Rd.,
Taipei 100
TW

00-19-BF (hex) Citiway technology Co.,ltd
0019BF (base 16) Citiway technology Co.,ltd
No.2 Building,Jia 32,Beiheyan Avenue,East City
Peijing 100006
CN

00-19-B6 (hex) Euro Emme s.r.l.
0019B6 (base 16) Euro Emme s.r.l.
Via Belvedere, 24
Galliate Lombardo Varese 21020
IT

00-19-B5 (hex) Famar Fueguina S.A.
0019B5 (base 16) Famar Fueguina S.A.
Rodney 70
Buenos Aires 1427
AR

00-19-B8 (hex) Boundary Devices
0019B8 (base 16) Boundary Devices
7200 W. Oakland
Chandler AZ 85226
US

00-1A-10 (hex) LUCENT TRANS ELECTRONICS CO.,LTD
001A10 (base 16) LUCENT TRANS ELECTRONICS CO.,LTD
9F-1,No.16,Chien Pah Rd.
Chung Ho Taipei 235
TW

00-1A-0C
(hex) Swe-Dish Satellite Systems AB
001A0C (base 16) Swe-Dish Satellite Systems AB
Torggatan 15
Solna Stockholm SE-171 06
SE

00-1A-07 (hex) Arecont Vision
001A07 (base 16) Arecont Vision
2400 N. Lincoln Ave
Altadena CA 91001
US

00-1A-08 (hex) Simoco Ltd.
001A08 (base 16) Simoco Ltd.
Field House
Derby DE1 1NH
GB

00-1A-1A (hex) Gentex Corporation/Electro-Acoustic Products
001A1A (base 16) Gentex Corporation/Electro-Acoustic Products
2456 Brown Avenue
Manchester NH 03103
US

00-1A-12 (hex) Essilor
001A12 (base 16) Essilor
64 Bis Avenue Aubert
94300 Vincennes
FR

00-1A-14 (hex) Xin Hua Control Engineering Co.,Ltd.
001A14 (base 16) Xin Hua Control Engineering Co.,Ltd.
160 Wenjing Rd., Minhang
Shanghai 2000245
CN

00-19-AC (hex) GSP SYSTEMS Inc.
0019AC (base 16) GSP SYSTEMS Inc.
13FL, 101 Dong, Chunui Techno Park 1,
Bucheon-City Gyeonggi-Do

420-857
KR

00-19-C9 (hex) S&C ELECTRIC COMPANY
0019C9 (base 16) S&C ELECTRIC COMPANY
1135 ATLANTIC AVE
ALAMEDA CA 94501
US

00-1A-04 (hex) Interay Solutions BV
001A04 (base 16) Interay Solutions BV
Mr. W.M. Oppedijk van Veenweg 8
BURGUM Friesland 9251 GA
NL

00-1A-02 (hex) SECURE CARE PRODUCTS, INC
001A02 (base 16) SECURE CARE PRODUCTS, INC
39 CHENELL DRIVE
CONCORD NH 03301
US

00-19-5D (hex) ShenZhen XinHuaTong Opto Electronics Co.,Ltd
00195D (base 16) ShenZhen XinHuaTong Opto Electronics Co.,Ltd
5F,BaodaZhou,Shancheng Industrial Zone,BaoAn District
ShenZhen GuangDong 518108
CN

00-19-53 (hex) Chainleader Communications Corp.
001953 (base 16) Chainleader Communications Corp.
5F, No. 400, Sec. 2 Bade Rd.,
Taipei 105
TW

00-19-55 (hex) Cisco Systems, Inc
001955 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-19-59 (hex) Staccato
Communications Inc.
001959 (base 16) Staccato Communications Inc.
6195 Lusk Blvd.
San Diego CA 92121
US

00-19-4D (hex) Avago Technologies Sdn Bhd
00194D (base 16) Avago Technologies Sdn Bhd

Bayan Lepas Free Industrial Zone
Bayan Lepas Penang 11900
MY

00-19-4E (hex) Ultra Electronics - TCS (Tactical Communication Systems)
00194E (base 16) Ultra Electronics - TCS (Tactical Communication Systems)
5990 Cote De Liesse
TMR Quebec H4T 1V7
CA

00-19-B0 (hex) HanYang System
0019B0 (base 16) HanYang System
701Ho, Kofomo Techno Center II, 1289-5
Shihung-Shi Kyunggi-Do 429-850
KR

00-19-95 (hex) Jurong Hi-Tech (Suzhou)Co.ltd
001995 (base 16) Jurong Hi-Tech (Suzhou)Co.ltd
275,Xing Long Street, Suzhou Indudtrial Park
Suzhou Jiang Su 215021
CN

00-19-9A (hex) EDO-EVI
00199A (base 16) EDO-EVI
7065 Columbia Gateway Dr.
Columbia MD 21046
US

00-19-94 (hex) Jorjin
Technologies Inc.
001994 (base 16) Jorjin Technologies Inc.
5F, No.28, Lane141, Sing-ai Rd.
Taipei 114
TW

00-19-34 (hex) TRENDON TOUCH TECHNOLOGY CORP.
001934 (base 16) TRENDON TOUCH TECHNOLOGY CORP.
2F No.5, Alley 22, Lane 513, Rueiguang Rd., Neihu
Taipei City 114
TW

00-19-23 (hex) Phonex Korea Co., LTD.
001923 (base 16) Phonex Korea Co., LTD.
33-3, Geoyeo-Dong
Seoul Songpa-Gu 138-814
KR

00-19-1C (hex) Sensicast Systems

00191C (base 16) Sensicast Systems
200 Reservoir St
Needham MA 02494
US

00-19-A0 (hex) NIHON DATA SYSTENS, INC.
0019A0 (base 16) NIHON DATA SYSTENS, INC.
6-9, Koyo-cho naka
Kobe-shi Hyogo 658-0032
JP

00-19-91 (hex) avinfo
001991 (base 16) avinfo
Jiahuiyuan 703,Huaao Center,31# Zizhuyuan Road,
Beijing 100089
CN

00-19-8C (hex) iXSea
00198C (base 16) iXSea
55 av auguste Renoir
Marly le Roi 78160
FR

00-19-62
(hex) Commerciant, LP
001962 (base 16) Commerciant, LP
2901 Wilcrest
Houston Texas 77042
US

00-19-33 (hex) Strix Systems, Inc.
001933 (base 16) Strix Systems, Inc.
26610 Agoura Road
Calabasas CA 91302
US

00-19-7C (hex) Riedel Communications GmbH
00197C (base 16) Riedel Communications GmbH
Uellendahler Str. 353
Wuppertal NRW 42109
DE

00-19-6F (hex) SensoPart GmbH
00196F (base 16) SensoPart GmbH
Am Wiedenbach 1
Wieden Baden-Württemberg D-79695
DE

00-18-E5 (hex) Adhoco AG
0018E5 (base 16) Adhoco AG
Technopark
Winterthur ZH CH-8406
CH

00-18-DD (hex) Silicondust Engineering Ltd
0018DD (base 16) Silicondust Engineering Ltd
38 Lillington Road
Auckland
NZ

00-18-DF (hex) The Morey Corporation
0018DF (base 16) The Morey Corporation
100 Morey Drive
Woodridge IL 60517
US

00-18-E1 (hex) Verkerk Service Systemen
0018E1 (base 16) Verkerk
Service Systemen
Molenvliet 1
Zwijndrecht Zuid-Holland NL-3335LH
NL

00-18-DA (hex) Würth Elektronik eiSos GmbH & Co. KG
0018DA (base 16) Würth Elektronik eiSos GmbH & Co. KG
Max-Eyth-Straße 1
Waldenburg 74638
DE

00-18-D5 (hex) REIGNCOM
0018D5 (base 16) REIGNCOM
14F Kamco Yanjae Tower, 949-3
Seoul 135-739
KR

00-19-15 (hex) TECOM Co., Ltd.
001915 (base 16) TECOM Co., Ltd.
23 R&D Road 2 Science Based Industrial Park
Hsin-Chu 300
TW

00-19-1B (hex) Sputnik Engineering AG
00191B (base 16) Sputnik Engineering AG
Höheweg 85
Biel-Bienne BE 2502
CH

00-19-09 (hex) DEVI - Danfoss A/S
001909 (base 16) DEVI - Danfoss A/S
Ulvehavevej 61
Vejle 7100
DK

00-19-0A (hex) HASWARE INC.
00190A (base 16) HASWARE INC.
4-12-3 HIGASHI
KUNITACHI TOKYO 186-0002
JP

00-18-D4 (hex) Unified Display Interface SIG
0018D4 (base 16) Unified Display Interface
SIG
15201 SW Greenbrier Road
Beaverton Oregon 97006
US

00-18-A8 (hex) AnNeal Technology Inc.
0018A8 (base 16) AnNeal Technology Inc.
Room 106, No. 47, Science Park Rd. II
Hsinchu 300
TW

00-18-A2 (hex) XIP Technology AB
0018A2 (base 16) XIP Technology AB
PO Box 437
Jönköping Sweden SE- 551 16
SE

00-18-9C (hex) Weldex Corporation
00189C (base 16) Weldex Corporation
6751 Katella Avenue
Cypress CA 90630
US

00-18-9A (hex) HANA Micron Inc.
00189A (base 16) HANA Micron Inc.
#95-1 Wonnam-Li, Umbong-Myeon
Asan-City Chung-Nam 336-864
KR

00-18-E7 (hex) Cameo Communications, INC.
0018E7 (base 16) Cameo Communications, INC.
NO.42, Sec. 6, Mincyuan E. Rd.
Taipei 114

TW

00-18-E4 (hex) YIGUANG
0018E4 (base 16) YIGUANG
3/FL.Industry zone,Fuxinlin,Hangcheng,Xixiang,Baoan
Shenzhen Guangdong 518126
CN

00-19-28 (hex) Siemens AG, Transportation
Systems
001928 (base 16) Siemens AG, Transportation Systems
Ackerstraße 22
Braunschweig 38126
DE

00-19-0D (hex) IEEE 1394c
00190D (base 16) IEEE 1394c
c/o 1394 Trade Association
Southlake TX 76092
US

00-19-04 (hex) WB Electronics Sp. z o.o.
001904 (base 16) WB Electronics Sp. z o.o.
ul. Poznanska 129/133
Ozarow Mazowiecki Mazowieckie 05-850
PL

00-18-A9 (hex) Ethernet Direct Corporation
0018A9 (base 16) Ethernet Direct Corporation
19F,No.345 Chung Ho Road, Yung Ho City
Taipei 234
TW

00-18-A7 (hex) Yoggie Security Systems LTD.
0018A7 (base 16) Yoggie Security Systems LTD.
P.P.Box 156
Beth Halevy 42870
IL

00-18-C2 (hex) Firetide, Inc
0018C2 (base 16) Firetide, Inc
16795 Lark Av, Suite 200
Los Gatos CA 95032
US

00-18-1A (hex) AVerMedia Information Inc.
00181A (base 16) AVerMedia Information Inc.
5F., No. 135, Jian 1st Rd.,

New Taipei City
235
TW

00-18-16 (hex) Ubixon Co., Ltd.
001816 (base 16) Ubixon Co., Ltd.
Cheongdong Building 2F
Seoul 137-070
KR

00-18-06 (hex) Hokkei Industries Co., Ltd.
001806 (base 16) Hokkei Industries Co., Ltd.
Imahira 432
Hakusan Ishikawa 924-0827
JP

00-18-3E (hex) Digilent, Inc
00183E (base 16) Digilent, Inc
215 E. Main St.
Pullman WA 99163
US

00-18-42 (hex) Nokia Danmark A/S
001842 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-18-40 (hex) 3 Phoenix, Inc.
001840 (base 16) 3 Phoenix, Inc.
14585 Avion Pkway
Chantilly Virginia 20151
US

00-18-44 (hex) Heads Up Technologies, Inc.
001844 (base 16) Heads Up Technologies, Inc.
2033 Chennault Drive, Suite 100
Carrollton Texas 75006-5119
US

00-18-21 (hex) SINDORICOH
001821 (base 16) SINDORICOH
277-22, 2ga, Sungsu-dong, Sungdong-gu,
Seoul 133-120
KR

00-18-23 (hex) Delta

Electronics, Inc.
001823 (base 16) Delta Electronics, Inc.
186 Ruey Kuang Road, Neihu,
Taipei 114
TW

00-18-15 (hex) GZ Technologies, Inc.
001815 (base 16) GZ Technologies, Inc.
Room 1, 5F., No.94, Baojhong Rd.
Taipei 231
TW

00-18-18 (hex) Cisco Systems, Inc
001818 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-18-73 (hex) Cisco Systems, Inc
001873 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-18-7A (hex) Wiremold
00187A (base 16) Wiremold
60 Woodlawn St.
West Hartford CT 06110
US

00-18-6C (hex) Neonode AB
00186C (base 16) Neonode AB
Biblioteksgatan 11, 1st floor
Stockholm S-111 46
SE

00-18-57 (hex) Unilever R&D
001857 (base 16) Unilever R&D
Bldg. 50
Bedford Bedfordshire MK44 1LQ
GB

00-18-53 (hex) Atera Networks LTD.
001853 (base 16) Atera Networks LTD.
31,
Habarzel St.
Tel-Aviv 69710
IL

00-18-59 (hex) Strawberry Linux Co.,Ltd.
001859 (base 16) Strawberry Linux Co.,Ltd.
1-28-8-204 Higashiayase
Adachiku Tokyo 120-0004
JP

00-18-4F (hex) 8 Ways Technology Corp.
00184F (base 16) 8 Ways Technology Corp.
2F-1, No. 216, Sec. 3, Roosevelt Rd.
Taipei 231
TW

00-18-2B (hex) Softier
00182B (base 16) Softier
Tidhar 3
Ra'anana none 43665
IL

00-18-29 (hex) Gatsometer
001829 (base 16) Gatsometer
Claes Tillyweg 2
Haarlem Noord-Holland 2031 CW
NL

00-18-38 (hex) PanAccess Communications,Inc.
001838 (base 16) PanAccess Communications,Inc.
Floor 8,Tower B,Global Trade Center,36 Beisanhuandonglu,Dongcheng District
Beijing 100013
CN

00-18-5F (hex) TAC Inc.
00185F (base 16) TAC Inc.
66 Nishiishigatsubocho Nishinanajyo Shimogyoku
Kyoto 600-8896
JP

00-18-64 (hex) Eaton Corporation
001864 (base 16) Eaton
Corporation
730, rue Commerciale
St-Jean-Chrysostome QC G6Z 2C5
CA

00-18-66 (hex) Leutron Vision
001866 (base 16) Leutron Vision
Industriestrasse 57
Glattbrugg ZH 8152

CH

00-18-60 (hex) SIM Technology Group Shanghai Simcom Ltd.,
001860 (base 16) SIM Technology Group Shanghai Simcom Ltd.,
SIM Technology building,
Shanghai 200233
CN

00-18-81 (hex) Buyang Electronics Industrial Co., Ltd
001881 (base 16) Buyang Electronics Industrial Co., Ltd
434-140, Oryu-Dong
Incheon 404-300
KR

00-18-97 (hex) JESS-LINK PRODUCTS Co., LTD
001897 (base 16) JESS-LINK PRODUCTS Co., LTD
9F, No. 176, Jian-Yi Rd., Chung Ho City
Taipei County 235
TW

00-18-9E (hex) OMNIKEY GmbH.
00189E (base 16) OMNIKEY GmbH.
Ferihumerstrasse 13
Linz Upperaustria 4040
AT

00-17-B5 (hex) Peerless Systems Corporation
0017B5 (base 16) Peerless Systems Corporation
2381 Rosecrans Avenue, Suite
400
El Segundo CA 90245
US

00-17-AF (hex) Enermet
0017AF (base 16) Enermet
Salvesenintie
Jyskä FIN-40420
FI

00-17-AA (hex) elab-experience inc.
0017AA (base 16) elab-experience inc.
104 Anotsupia
Tsu-shi mie prefecture 514-0131
JP

00-17-AE (hex) GAI-Tronics
0017AE (base 16) GAI-Tronics
Brunel Drive

Burton Upon Trent Staffordshire DE13 0BZ
GB

00-17-8B (hex) Teledyne Technologies Incorporated
00178B (base 16) Teledyne Technologies Incorporated
12333 West Olympic Blvd
Los Angeles CA 90064
US

00-17-80 (hex) Applied Biosystems B.V.
001780 (base 16) Applied Biosystems B.V.
Blk 33, Marsiling Industrial Estate Road 3,
739256
SG

00-17-F1 (hex) Renu Electronics Pvt Ltd
0017F1 (base 16) Renu Electronics Pvt Ltd
Sr No 2/6, Baner Road,
Pune Maharashtra 411045
IN

00-17-FF (hex) PLAYLINE Co.,Ltd.
0017FF (base 16) PLAYLINE Co.,Ltd.
1-4-21
MOTOAKASAKA
TOKYO 107-0051
JP

00-17-F6 (hex) Pyramid Meriden Inc.
0017F6 (base 16) Pyramid Meriden Inc.
45 Gracey Ave.
Meriden CT 06451
US

00-17-C5 (hex) SonicWALL
0017C5 (base 16) SonicWALL
1143 Borregas Ave
Sunnyvale CA 95126
US

00-17-BE (hex) Tratec Telecom B.V.
0017BE (base 16) Tratec Telecom B.V.
De Smalle Zijde 12
Veenendaal NL0-3903 LP
NL

00-17-C0 (hex) PureTech Systems, Inc.
0017C0 (base 16) PureTech Systems, Inc.

1950 W Rose Garden Lane
Phoenix AZ 85027
US

00-17-BA (hex) SEDO CO., LTD.
0017BA (base 16) SEDO CO., LTD.
302, KT Bldg, 1ANNEX, 35-1
Seoul 150-038
KR

00-17-6D (hex) CORE CORPORATION
00176D (base 16) CORE CORPORATION
1-22-3, Sangenjaya,
Setagaya-ku Tokyo-to 154-8552
JP

00-17-73 (hex) Laketune Technologies Co. Ltd
001773 (base 16) Laketune Technologies Co. Ltd
No. 38 Zijinghua Rd. Westlake District
Hangzhou
Zhejiang 310013
CN

00-17-D4 (hex) Monsoon Multimedia, Inc
0017D4 (base 16) Monsoon Multimedia, Inc
1730 South Amphlett blvd. Suite 101
San Mateo CA 94402
US

00-17-DF (hex) Cisco Systems, Inc
0017DF (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-17-A5 (hex) Ralink Technology Corp
0017A5 (base 16) Ralink Technology Corp
Suite 215, Bldg 53. 195-61 Sec.4, Chung Hsing Rd,
Chutung Hsinchu 310
TW

00-17-A8 (hex) EDM Corporation
0017A8 (base 16) EDM Corporation
3-5-2 Itabashi
Itabashi-ku Tokyo 173-0004
JP

00-17-A9 (hex) Sentivision

0017A9 (base 16) Sentivision
Marynarska 19a
Warsaw Mazowieckie 02-674
PL

00-17-6C (hex) Pivot3, Inc.
00176C (base 16) Pivot3, Inc.
6605 Cypresswood Drive, Ste 350
Spring TX 77379-7741
US

00-17-70 (hex) Arti Industrial Electronics Ltd.
001770 (base 16) Arti Industrial Electronics Ltd.
Ger-San
Sitesi, 657. Sokak
Ankara 06370
TR

00-17-F0 (hex) SZCOM Broadband Network Technology Co.,Ltd
0017F0 (base 16) SZCOM Broadband Network Technology Co.,Ltd
Room 602 No.8 Building ,Shenzhen Software Park,
Shenzhen Guangdong 518057
CN

00-17-46 (hex) Freedom9 Inc.
001746 (base 16) Freedom9 Inc.
4140B SLADEVIEW CRE.,
MISSISSAUGA, Ontario L5L6A1
CA

00-17-4D (hex) DYNAMIC NETWORK FACTORY, INC.
00174D (base 16) DYNAMIC NETWORK FACTORY, INC.
26250 EDEN LANDING RD.
HAYWARD CA 94545
US

00-17-44 (hex) Araneo Ltd.
001744 (base 16) Araneo Ltd.
103 Medinat Hayehudim
Herzliya 46733
IL

00-17-49 (hex) HYUNDAE YONG-O-SA CO.,LTD
001749 (base 16) HYUNDAE YONG-O-SA CO.,LTD
448-10, Hyuckjae B/D Seongnae, Kangdong-gu
Seoul 134-847
KR

00-17-43 (hex) Deck Srl
001743 (base 16) Deck Srl
Via Fabio Filzi 2
Milan 20124
IT

00-17-3D (hex) Neology
00173D
(base 16) Neology
13000 Gregg Street Suite A
Poway CA 92064
US

00-17-40 (hex) Bluberi Gaming Technologies Inc
001740 (base 16) Bluberi Gaming Technologies Inc
2125, rue Letendre Suite 420
Drummondville Quebec J2C 7G1
CA

00-17-32 (hex) Science-Technical Center RISSA
001732 (base 16) Science-Technical Center RISSA
st. Abramtsevskaja, h.9
Moscow 128572
RU

00-17-3A (hex) Cloudastructure Inc
00173A (base 16) Cloudastructure Inc
585 Broadway
Redwood City CA 94063
US

00-17-2F (hex) NeuLion Incorporated
00172F (base 16) NeuLion Incorporated
1600 Old Country Road
Plainview NY 11803
US

00-17-28 (hex) Selex Communications
001728 (base 16) Selex Communications
Via Pieragostini 80
Genova 16151
IT

00-17-22 (hex) Hanazeder Electronic GmbH
001722 (base 16) Hanazeder Electronic GmbH
J.M. Dimmelstr 10
Ried i. I. Oberösterreich 4910
AT

00-16-E1
(hex) SiliconStor, Inc.
0016E1 (base 16) SiliconStor, Inc.
48430 Lakeview Blvd.
Fremont CA 94538
US

00-16-E2 (hex) American Fibertek, Inc.
0016E2 (base 16) American Fibertek, Inc.
120 Belmont Drive
Somerset New Jersey 08873-1204
US

00-17-23 (hex) Summit Data Communications
001723 (base 16) Summit Data Communications
526 South Main Street
Akron Ohio 44311
US

00-17-1F (hex) IMV Corporation
00171F (base 16) IMV Corporation
2-6-10 Takejima
Osaka 555-0011
JP

00-17-10 (hex) Casa Systems Inc.
001710 (base 16) Casa Systems Inc.
10, New England Business Center Dr.
Andover MA 01810
US

00-17-13 (hex) Tiger NetCom
001713 (base 16) Tiger NetCom
J-15 Mudan Cun, Yijing Huayuan,
Shenzhen Guangdong 518003
CN

00-16-FD (hex) Jaty Electronics
0016FD (base 16) Jaty Electronics
Jaty Bldg 10F, 1659-5 Bongchun11-Dong
Seoul 151-832
KR

00-16-EF (hex) Koko
Fitness, Inc.
0016EF (base 16) Koko Fitness, Inc.
136 Longwater Drive

Norwell MA 02061
US

00-17-57 (hex) RIX TECHNOLOGY LIMITED
001757 (base 16) RIX TECHNOLOGY LIMITED
17 DAI WANG STREET
TAI PO NEW TERRITORIES
HK

00-16-7B (hex) Haver&Boecker
00167B (base 16) Haver&Boecker
Carl-Haver-Platz 3
Oelde NRW 59302
DE

00-16-79 (hex) eOn Communications
001679 (base 16) eOn Communications
4105 Royal Drive, Suite 100
Kennesaw Georgia 30144
US

00-16-78 (hex) SHENZHEN BAOAN GAOKE ELECTRONICS CO., LTD
001678 (base 16) SHENZHEN BAOAN GAOKE ELECTRONICS CO., LTD
GAOKE INDUSTRIAL PARK, NO.8 TANGKENG ROAD, SHIYAN TOWN
SHENZHEN GUANGDONG 518108
CN

00-16-74 (hex) EuroCB (Phils.), Inc.
001674 (base 16) EuroCB (Phils.), Inc.
SFB No.2
Lapulapu City Cebu 6015
PH

00-16-70 (hex) SKNET Corporation
001670 (base 16) SKNET Corporation
Fontana Shinyokohama
Yokohama
Kanagawa 222-0033
JP

00-16-8E (hex) Vimicro corporation
00168E (base 16) Vimicro corporation
15/F,Shining Tower,No.35,xueyuan
Beijing 100083
CN

00-16-89 (hex) Pilkor Electronics Co., Ltd
001689 (base 16) Pilkor Electronics Co., Ltd

381,Wonchun-Dong,Yeoungtong-Gu
Suwon Kyung Ki-Do 442-380
KR

00-16-8A (hex) id-Confirm Inc
00168A (base 16) id-Confirm Inc
1800 Boulder St
Denver CO 80211
US

00-16-86 (hex) Karl Storz Imaging
001686 (base 16) Karl Storz Imaging
175 Cremona Dr.
Goleta CA 93117
US

00-16-7E (hex) DIBOSS.CO.,LTD
00167E (base 16) DIBOSS.CO.,LTD
126-1, Gongdan-dong
Gumi Gyeongbuk 730-902
KR

00-16-BF (hex) PaloDEx Group Oy
0016BF (base 16) PaloDEx Group Oy
P.O. Box 64
Tuusula 04301
FI

00-16-B7 (hex) Seoul Commtech
0016B7 (base 16) Seoul Commtech
448-11, Seongnae 3dong. Gangdong gu,
Seoul 134033
KR

00-16-BB (hex) Law-Chain
Computer Technology Co Ltd
0016BB (base 16) Law-Chain Computer Technology Co Ltd
7F-2, 286-4, hsin ya road, chien chen district
Kaohsiung 80673
TW

00-16-B4 (hex) Private
0016B4 (base 16) Private

00-16-A7 (hex) AWETA G&P
0016A7 (base 16) AWETA G&P
Burg. Winkellaan 3
Nootdorp 2631 HG

NL

00-16-5D (hex) AirDefense, Inc.
00165D (base 16) AirDefense, Inc.
4800 North Point Pkwy
Alpharetta GA 30022
US

00-16-5B (hex) Grip Audio
00165B (base 16) Grip Audio
6345 W. Louise Drive
Glendale Arizona 85310-4243
US

00-16-A0 (hex) Auto-Maskin
0016A0 (base 16) Auto-Maskin
Sophie Radichs Vei 7
LILLESTROM Akershus 2003
NO

00-16-8D (hex) KORWIN CO., Ltd.
00168D (base 16) KORWIN CO., Ltd.
3rd Floor, Hana Bldg, 123-7 Nonhyun-dong
Seoul 135-010
KR

00-16-CD (hex) HIJI HIGH-TECH CO., LTD.
0016CD (base 16) HIJI HIGH-TECH CO., LTD.
Ohga 8133
Hayami
Oita 879-1504
JP

00-16-67 (hex) A-TEC Subsystem INC.
001667 (base 16) A-TEC Subsystem INC.
4F, No. 86, Chung-Hsing Road, Shijr City,
221
TW

00-16-3F (hex) CReTE SYSTEMS Inc.
00163F (base 16) CReTE SYSTEMS Inc.
7F,No.250,Sec.3,Pei Shen Rd.,Shen Keng Hsiang
Taipei County 22204
TW

00-16-3D (hex) Tsinghua Tongfang Legend Silicon Tech. Co., Ltd.
00163D (base 16) Tsinghua Tongfang Legend Silicon Tech. Co., Ltd.
26F TSINGHUA TONGFANG HI-TECH PLAZA

BEIJING 100083
CN

00-16-3A (hex) YVES TECHNOLOGY CO., LTD.
00163A (base 16) YVES TECHNOLOGY CO., LTD.
No.74, Fusing 2nd Rd.
Gueishan Taoyuan 33377
TW

00-16-38 (hex) TECOM Co., Ltd.
001638 (base 16) TECOM Co., Ltd.
23 R&D Road 2 Science Based Industrial Park
Hsin-Chu 300
TW

00-16-33 (hex) Oxford Diagnostics Ltd.
001633 (base 16) Oxford Diagnostics Ltd.
Sandybrae
Oxford Oxon. OX1 5HJ
GB

00-16-2D
(hex) STNet Co., Ltd.
00162D (base 16) STNet Co., Ltd.
Shin-wha Building 4F, 954-25
Anyang-si Kyungki-do 431-060
KR

00-16-27 (hex) embedded-logic DESIGN AND MORE GmbH
001627 (base 16) embedded-logic DESIGN AND MORE GmbH
Hansestrasse 24
Muenster NRW 48153
DE

00-15-FE (hex) SCHILLING ROBOTICS LLC
0015FE (base 16) SCHILLING ROBOTICS LLC
260 COUSTEAU PL
DAVIS CA 95618
US

00-15-EC (hex) Boca Devices LLC
0015EC (base 16) Boca Devices LLC
7647 Sierra Ter
Boca Raton Florida 33433
US

00-15-EF (hex) NEC TOKIN Corporation
0015EF (base 16) NEC TOKIN Corporation

1-1,Asahi-Cho 7-chome,Shiroishi,
Miyagi 989-0223
JP

00-16-0F (hex) BADGER METER INC
00160F (base 16) BADGER METER INC
4545 W BROWN DEER RD
MILWAUKEE WI 53223
US

00-16-04 (hex) Sigpro
001604 (base 16) Sigpro
655 W Evelyn ST
Mountain View CA 94041
US

00-15-FB (hex) setex schermuly
textile computer gmbh
0015FB (base 16) setex schermuly textile computer gmbh
Hauptstraße 25
Mengerskirchen Hessen 35794
DE

00-15-E4 (hex) Zimmer Elektromedizin
0015E4 (base 16) Zimmer Elektromedizin
Junkersstrasse 9
Neu-Ulm Bayern 89231
DE

00-15-D9 (hex) PKC Electronics Oy
0015D9 (base 16) PKC Electronics Oy
Pajuniityntie 43
RAAHE 92120
FI

00-16-4F (hex) World Ethnic Broadcastin Inc.
00164F (base 16) World Ethnic Broadcastin Inc.
50 California Street, Suite 1500
San Francisco California 94111
US

00-16-4A (hex) Vibration Technology Limited
00164A (base 16) Vibration Technology Limited
Vibtech House, Central Boulevard
Larbert Scotland FK5 4RU
GB

00-16-45 (hex) Power Distribution, Inc.

001645 (base 16) Power Distribution, Inc.
4200 Oakleys Ct.
Richmond VA 23223
US

00-16-22 (hex) BBH SYSTEMS GMBH
001622 (base 16) BBH SYSTEMS GMBH
Böttgerstraße
40
Weiden i.d.OPf. Bayern 92637
DE

00-16-13 (hex) LibreStream Technologies Inc.
001613 (base 16) LibreStream Technologies Inc.
895 Waverley Street
Winnipeg Manitoba R3T 5P4
CA

00-15-DD (hex) IP Control Systems Ltd.
0015DD (base 16) IP Control Systems Ltd.
Unit 15, Hi-Tech Village,
Boldon Tyne & Wear NE35 9PE
GB

00-16-0D (hex) Be Here Corporation
00160D (base 16) Be Here Corporation
39300 Civic Center Dr., Suite 180
Fremont CA 94538
US

00-15-CD (hex) Exartech International Corp.
0015CD (base 16) Exartech International Corp.
3/F, No.62, Lane 188, Ruei Guang Rd., Neihu
Taipei 114
TW

00-15-C9 (hex) Gumstix, Inc
0015C9 (base 16) Gumstix, Inc
3130 Alpine Road
Portola Valley CA 94028
US

00-15-BA (hex) iba AG
0015BA (base 16) iba AG
Koenigswarterstrasse 44
Fuerth Bavaria 90762
DE

00-15-BB (hex) SMA Solar Technology AG
0015BB (base 16) SMA
Solar Technology AG
Sonnenallee 1
Niestetal Hessen 34266
DE

00-15-BF (hex) technicob
0015BF (base 16) technicob
4 Rue Camille Saint-Saens
LANESTER Morbihan 56602
US

00-15-65 (hex) XIAMEN YEALINK NETWORK TECHNOLOGY CO.,LTD
001565 (base 16) XIAMEN YEALINK NETWORK TECHNOLOGY CO.,LTD
7F Hualian Electronic BLDG.580 Jiahe Road,Xiamen China
Xiamen Fujian 361006
CN

00-15-69 (hex) PECO II, Inc.
001569 (base 16) PECO II, Inc.
7060 Huntley Road
Columbus OH 43229
US

00-15-63 (hex) Cisco Systems, Inc
001563 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-15-64 (hex) BEHRINGER Spezielle Studiotechnik GmbH
001564 (base 16) BEHRINGER Spezielle Studiotechnik GmbH
Hanns-Martin-Schleyer-Str. 36-38
Willich
DE

00-15-61 (hex) JJPlus Corporation
001561 (base 16) JJPlus Corporation
678 Massachusetts Ave
Cambridge MA 02139
US

00-15-7B
(hex) Leuze electronic GmbH + Co. KG
00157B (base 16) Leuze electronic GmbH + Co. KG
In der Braike 1
Owen Baden-Württemberg 73277

DE

00-15-78 (hex) Audio / Video Innovations
001578 (base 16) Audio / Video Innovations
A3-3375 North Service Road
Burlington ON L7N 3G2
CA

00-15-71 (hex) Nolan Systems
001571 (base 16) Nolan Systems
1595 Cleo Springs Dr.
San Jose Ca. 95131
US

00-15-AE (hex) kyung il
0015AE (base 16) kyung il
woar rong-myn yougate-ri 101-2
paju-city gyeong gi 413-813
KR

00-15-BC (hex) Develco
0015BC (base 16) Develco
Olof Palmes Allé 40
Aarhus N 8200
DK

00-15-BD (hex) Group 4 Technology Ltd
0015BD (base 16) Group 4 Technology Ltd
Challenge House
Tewkesbury Gloucestershire GL20 8UQ
GB

00-15-B5 (hex) CI Network Corp.
0015B5 (base 16) CI Network Corp.
2F Daini Inoue Bldg
Tokyo 107-0052
JP

00-15-9C (hex) B-KYUNG
SYSTEM Co.,Ltd.
00159C (base 16) B-KYUNG SYSTEM Co.,Ltd.
#812,WOOLIM E-BIZ CENTER,170-5
GURO-DONG GURO-GU 152-847
KR

00-15-95 (hex) Quester Tangent Corporation
001595 (base 16) Quester Tangent Corporation
201 - 9865 West Saanich Road

Sidney BC V8L 5Y8
CA

00-15-58 (hex) FOXCONN
001558 (base 16) FOXCONN
No.2,2nd DongHuan Road,10th YouSong
ShenZhen GuangDong 518109
US

00-15-4F (hex) one RF Technology
00154F (base 16) one RF Technology
1360 Route des Dolines
Valbonne Sophia-Antipolis PACA 06560
FR

00-15-45 (hex) SEECODE Co., Ltd.
001545 (base 16) SEECODE Co., Ltd.
4th Floor, Amin Bldg., 110-1, Yangjaedong, Seochogu
Seoul 137-891
KR

00-15-87 (hex) Takenaka Seisakusho Co.,Ltd
001587 (base 16) Takenaka Seisakusho Co.,Ltd
178 HISHIE
HIGASHI-OSAKA CITY OSAKA 578-0984
JP

00-15-82 (hex) Pulse Eight Limited
001582 (base 16) Pulse Eight Limited
13 The
Metro Centre
Peterbourugh PE2 7UH
GB

00-14-C8 (hex) Contemporary Research Corp
0014C8 (base 16) Contemporary Research Corp
4355 Excel Pkwy
Addison TX 75001
US

00-14-C5 (hex) Alive Technologies Pty Ltd
0014C5 (base 16) Alive Technologies Pty Ltd
11 Technology Drive
Arundel Queensland 4214
AU

00-14-BC (hex) SYNECTIC TELECOM EXPORTS PVT. LTD.
0014BC (base 16) SYNECTIC TELECOM EXPORTS PVT. LTD.

196, 1st Main, 3rd Stage, 4th Block
BANGALORE 560079
IN

00-15-01 (hex) LexBox
001501 (base 16) LexBox
3, avenue Didier Daurat
TOULOUSE 31400
FR

00-14-EF (hex) TZero Technologies, Inc.
0014EF (base 16) TZero Technologies, Inc.
455 W. Maude Avenue
Sunnyvale CA 94085
US

00-15-1A (hex) Hunter Engineering Company
00151A (base 16) Hunter Engineering Company
11250 Hunter Drive
Bridgeton Missouri 63044
US

00-15-14 (hex) Hu Zhou NAVA Networks&Electronics
Ltd.
001514 (base 16) Hu Zhou NAVA Networks&Electronics Ltd.
3/F,No.328-4,Guang Yuan Rd.
Hu Zhou Zhe Jiang 313000
CN

00-15-16 (hex) URIEL SYSTEMS INC.
001516 (base 16) URIEL SYSTEMS INC.
#204 Byucksan Digitalvalley 1st, 212-16, Guro-dong, Guro-gu
Seoul 152-050
KR

00-15-43 (hex) Aberdeen Test Center
001543 (base 16) Aberdeen Test Center
400 Colleran Road
Aberdeen Proving Grounds MD 21005-5059
US

00-15-41 (hex) StrataLight Communications, Inc.
001541 (base 16) StrataLight Communications, Inc.
2105 S. Bascom Avenue
Campbell CA 95008
US

00-14-DA (hex) Huntleigh Healthcare

0014DA (base 16) Huntleigh Healthcare
Huntleigh Healthcare - Diagnostic Products Division
Cardiff CF24 5HN
GB

00-14-D5 (hex) Datang Telecom Technology CO. , LCD,Optical Communication Br
0014D5 (base 16) Datang Telecom Technology CO. , LCD,Optical Communication Br
3rd Floor,Building 8,Hi-Tech Incubation
Park,
ChengDu SiChuan 610041
CN

00-14-CA (hex) Key Radio Systems Limited
0014CA (base 16) Key Radio Systems Limited
Venus House
Aldermaston Berkshire RG7 8DA
GB

00-15-1F (hex) Multivision Intelligent Surveillance (Hong Kong) Ltd
00151F (base 16) Multivision Intelligent Surveillance (Hong Kong) Ltd
26/F, Aitken Vanson Centre,

HK

00-15-22 (hex) Dea Security
001522 (base 16) Dea Security
Via Togliatti
Santo Stefano Magra SP 19037
IT

00-14-EE (hex) Western Digital Technologies, Inc.
0014EE (base 16) Western Digital Technologies, Inc.
20511 Lake Forest Dr.
Lake Forest Ca 92630
US

00-15-38 (hex) RFID, Inc.
001538 (base 16) RFID, Inc.
14100 East Jewell Ave.
Aurora CO 80012
US

00-15-2E (hex) PacketHop, Inc.
00152E (base 16) PacketHop, Inc.
1301 Shoreway Road
Belmont California 94002
US

00-14-D3 (hex) SEPSA
0014D3 (base 16) SEPSA
calle
Albatros, 7 y 9
PINTO Madrid 28320
ES

00-14-D8 (hex) bio-logic SA
0014D8 (base 16) bio-logic SA
1, rue de l'Europe
CLAIX 38640
FR

00-14-5C (hex) Intronics B.V.
00145C (base 16) Intronics B.V.
Koolhovenstraat 1E
Barneveld Gelderland 3772 MT
NL

00-14-5A (hex) Westermo Neratec AG
00145A (base 16) Westermo Neratec AG
Rosswiesstrasse 29
CH-8608 Bubikon ZH
CH

00-14-5B (hex) SeekerNet Inc.
00145B (base 16) SeekerNet Inc.
300 Satellite Blvd.
Suwanee Georgia 30024
US

00-14-9C (hex) HF Company
00149C (base 16) HF Company
Node Park Touraine
BP1 Tauxigny 37310
FR

00-14-A3 (hex) Vitelec BV
0014A3 (base 16) Vitelec BV
kapittelweg 18
Breda NB NL 4827 HG
NL

00-14-97 (hex) ZHIYUAN Eletronics co.,ltd.
001497 (base 16) ZHIYUAN Eletronics co.,ltd.
2 Floor, NO.3 Building, Huangzhou Industrial Estate, Chebei Road,
Guangzhou Guangdong

510660
CN

00-14-2E (hex) 77 Elektronika Kft.
00142E (base 16) 77 Elektronika Kft.
Fehervari ut 98.
Budapest H-1163
HU

00-14-30 (hex) ViPowER, Inc
001430 (base 16) ViPowER, Inc
9F., No.205-3, Sec. 3, Beisin Rd
Sindian Taipei County 231
TW

00-14-32 (hex) Tarallax Wireless, Inc.
001432 (base 16) Tarallax Wireless, Inc.
10 West 100 South,
Salt Lake City UT 84101
US

00-14-99 (hex) Helicomm Inc
001499 (base 16) Helicomm Inc
1947 Camino Vida Roble
Carlsbad CA 92008
US

00-14-92 (hex) Liteon, Mobile Media Solution SBU
001492 (base 16) Liteon, Mobile Media Solution SBU
4F, 3, Lane 768, Sec. 4,
Taipei 115
TW

00-14-94 (hex) ESU AG
001494 (base 16) ESU AG
Lukasstrasse 29
St. Gallen 9008
CH

00-14-85 (hex) Giga-Byte
001485 (base 16) Giga-Byte
No.215,Nan-Ping Road,
Pin-Jen Taoyuan 326
TW

00-14-83 (hex) eXS Inc.
001483 (base 16) eXS

Inc.
1900 Alameda de las Pulgas
San Mateo CA 94403
US

00-14-B9 (hex) MSTAR SEMICONDUCTOR
0014B9 (base 16) MSTAR SEMICONDUCTOR
11-13 rue René Jacques
Issy les Moulineaux 92130
FR

00-14-BD (hex) incNETWORKS, Inc
0014BD (base 16) incNETWORKS, Inc
198 Brighton Ave
Long Branch NJ 07740
US

00-14-B7 (hex) AR Infotek Inc.
0014B7 (base 16) AR Infotek Inc.
9F, No.185, GangQian Road
Taipei 11494
TW

00-14-B5 (hex) PHYSIOMETRIX,INC
0014B5 (base 16) PHYSIOMETRIX,INC
101 BILLERICA AVE #5
N. BILLERICA MA 01862
US

00-14-4C (hex) General Meters Corp.
00144C (base 16) General Meters Corp.
1935 Dominion Way
Colorado Springs Colorado 80918
US

00-14-43 (hex) Consultronics Europe Ltd
001443 (base 16) Consultronics Europe Ltd
Electron Way
Chandlers Ford Hants SO53 4SE
GB

00-14-49 (hex) Sichuan Changhong Electric Ltd.
001449 (base 16) Sichuan
Changhong Electric Ltd.
No.35,East MianXin Road,MianYang,Sichaun,China.
MianYang SiChuan PRC 621000
CN

00-14-71 (hex) Eastern Asia Technology Limited
001471 (base 16) Eastern Asia Technology Limited
8F-1, No. 188, Baoqiao Rd., Xindian Dist.
New Taipei City 23145
TW

00-14-60 (hex) Kyocera Wireless Corp.
001460 (base 16) Kyocera Wireless Corp.
10300 Campus Point Drive
San Diego CA 92121
US

00-14-46 (hex) SuperVision Solutions LLC
001446 (base 16) SuperVision Solutions LLC
762 Industrial Dr.
Elmhurst IL 60126
US

00-14-40 (hex) ATOMIC Corporation
001440 (base 16) ATOMIC Corporation
MAMPO BLDG
TAITO-KU TOKYO 111-0053
JP

00-14-1F (hex) SunKwang Electronics Co., Ltd
00141F (base 16) SunKwang Electronics Co., Ltd
#365(Techno-park, 301 dong, 901 ho,) Samjung-dong, Ohjung-ku,
Bucheon-shi Kyunggi-do 421-809
KR

00-14-1D (hex) KEBA Industrial Automation Germany GmbH
00141D
(base 16) KEBA Industrial Automation Germany GmbH
Gewerbestrasse 5-9
Lahnau Hessen 35633
DE

00-14-12 (hex) S-TEC electronics AG
001412 (base 16) S-TEC electronics AG
Industriestrasse 49
Zug 6300
CH

00-14-11 (hex) Deutschmann Automation GmbH & Co. KG
001411 (base 16) Deutschmann Automation GmbH & Co. KG
Carl-Zeiss-Str. 8
Bad Camberg D - 65520
DE

00-13-F5 (hex) Akimbi Systems
0013F5 (base 16) Akimbi Systems
1400 Fashion Island Blvd
San Mateo CA 94404
US

00-13-F1 (hex) AMOD Technology Co., Ltd.
0013F1 (base 16) AMOD Technology Co., Ltd.
2F., No. 16, Prosperity Road II
Hsinchu, 30078
TW

00-13-E7 (hex) Halcro
0013E7 (base 16) Halcro
Suite 1, Level 1
Wayville South Australia 5034
AU

00-13-EA (hex) Kamstrup A/S
0013EA (base 16) Kamstrup A/S
Industrivej 28
Stilling 8660
DK

00-13-E1 (hex) Iprobe AB
0013E1 (base 16) Iprobe
AB
Finlandsgatan 12
Kista SE-16474
SE

00-14-05 (hex) OpenIB, Inc.
001405 (base 16) OpenIB, Inc.
OpenFabrics, Inc., c/o QLogic Corporation
Mountain View CA 94043-4655
US

00-45-01 (hex) Midmark RTLS
004501 (base 16) Midmark RTLS
2600 Miller Creek Road
Traverse City MI 49684
US

00-13-C1 (hex) Asoka USA Corporation
0013C1 (base 16) Asoka USA Corporation
558 Pilgrim Drive
Foster City CA 94404

US

00-13-C0 (hex) Trix Tecnologia Ltda.
0013C0 (base 16) Trix Tecnologia Ltda.
Rua da Paz, 1957 - Chácara Santo Antônio
São Paulo 04713-002
BR

00-13-B3 (hex) Ecom Communications Technology Co., Ltd.
0013B3 (base 16) Ecom Communications Technology Co., Ltd.
Floor 7, Machinery Industry Building, No.22,
Beijing
CN

00-13-E3 (hex) CoVi Technologies, Inc.
0013E3 (base 16) CoVi Technologies, Inc.
6300 Bridgepoint Parkway
Austin Texas 78730
US

00-13-E4
(hex) YANGJAE SYSTEMS CORP.
0013E4 (base 16) YANGJAE SYSTEMS CORP.
1202. HANSHIN IT TOWER Guro-3Dong,
Seoul 152-848
KR

00-13-D9 (hex) Matrix Product Development, Inc.
0013D9 (base 16) Matrix Product Development, Inc.
13 North Bird Street
Sun Prairie WI 53590
US

00-14-03 (hex) Renasis, LLC
001403 (base 16) Renasis, LLC
1530 N. State St.
Lehi UT 84043
US

00-13-CC (hex) Tall Maple Systems
0013CC (base 16) Tall Maple Systems
85 Saratoga Ave Suite 139
Santa Clara CA 95051
US

00-13-B7 (hex) Scantech ID
0013B7 (base 16) Scantech ID
Vanadiumweg 22

Amersfoort Utrecht 3812 PZ
NL

00-13-6C (hex) TomTom
00136C (base 16) TomTom
Oosterdoksstraat 114
1011 DK Amsterdam
NL

00-13-64 (hex) Paradigm Technology Inc..
001364 (base 16) Paradigm Technology Inc..
3F, No. 285, Sec.2, Ti-Ding Blvd Nei-Hu,
Taipei 114
TW

00-13-6B (hex) E-TEC
00136B
(base 16) E-TEC
2-17-14-503 Hakataekimae
Fukuoka Fukuokaken 812-0011
JP

00-13-55 (hex) TOMEN Cyber-business Solutions, Inc.
001355 (base 16) TOMEN Cyber-business Solutions, Inc.
2-11-19 Kohnan
TOKYO 108-0075
JP

00-13-57 (hex) Soyal Technology Co., Ltd.
001357 (base 16) Soyal Technology Co., Ltd.
10F, No. 27, Lane 169, Kangning St., Shijr City,
Taipei 221
TW

00-13-89 (hex) Redes de Telefonía Móvil S.A.
001389 (base 16) Redes de Telefonía Móvil S.A.
C/Puerto de la Morcuera 14 B4
Leganés Madrid 28918
ES

00-13-8C (hex) Kumyoung.Co.Ltd
00138C (base 16) Kumyoung.Co.Ltd
Seoul KY building, 40-17 Hangang Ro, 3Ga, Youngsan-Gu
Seoul 140-880
KR

00-13-8E (hex) FOAB Elektronik AB
00138E (base 16) FOAB Elektronik AB

Sankt Jorgens Vag 8
Gothenburg 422 49
SE

00-13-45 (hex) Eaton Corporation
001345 (base 16) Eaton Corporation
4201 North 27th Street
Milwaukee
Wisconsin 53216
US

00-13-47 (hex) Red Lion Controls, LP
001347 (base 16) Red Lion Controls, LP
20 Willow Springs Circle
York NY 17402
US

00-13-43 (hex) Matsushita Electronic Components (Europe) GmbH
001343 (base 16) Matsushita Electronic Components (Europe) GmbH
Zeppelinstraße 19
Lueneburg Niedersachsen 21337
DE

00-13-3E (hex) MetaSwitch
00133E (base 16) MetaSwitch
1411 Harbor Bay Parkway
Alameda CA 94502
US

00-13-2E (hex) ITian Coporation
00132E (base 16) ITian Coporation
4F Youngho Bd.1605-1 Seocho-dong
Seoul 137-070
KR

00-13-39 (hex) CCV Deutschland GmbH
001339 (base 16) CCV Deutschland GmbH
Gewerbering 1
Au i. d. Hallertau Bayern 84072
DE

00-13-60 (hex) Cisco Systems, Inc
001360 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-13-5D (hex) NTTPC Communications, Inc.

00135D (base 16) NTTPC Communications,
Inc.
3-25 Kanda Jinbo-cho
Chiyoda-ku Tokyo 101-0051
JP

00-13-52 (hex) Naztec, Inc.
001352 (base 16) Naztec, Inc.
820 Park Two Dr.
Sugar Land TX 77478
US

00-13-A1 (hex) Crow Electronic Engeneering
0013A1 (base 16) Crow Electronic Engeneering
12 Kinneret st.
Airport City
IL

00-13-9C (hex) Exavera Technologies, Inc.
00139C (base 16) Exavera Technologies, Inc.
195 New Hampshire Avenue
Portsmouth NH 03801
US

00-13-94 (hex) Infohand Co.,Ltd
001394 (base 16) Infohand Co.,Ltd
Kranz-Techno #1207, 5442-1, Sangdaewon-dong, Jungwon-gu
Seongnam-si Gyeonggi-do 462-819
KR

00-13-76 (hex) Tabor Electronics Ltd.
001376 (base 16) Tabor Electronics Ltd.
9 Hatatsia St.
Tel Hanan 20302
IL

00-13-80 (hex) Cisco Systems, Inc
001380 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-13-85 (hex) Add-On Technology Co., LTD.
001385
(base 16) Add-On Technology Co., LTD.
1F, No.11, Lane 206, Da-An Road Sec. 1,
Taipei 106
TW

00-13-1B (hex) BeCell Innovations Corp.
00131B (base 16) BeCell Innovations Corp.
12F-9, No. 79, Shin-Tai 5th Rd Sec 1,
Shih-chih, Taipei 221
TW

00-13-0B (hex) Mextal B.V.
00130B (base 16) Mextal B.V.
De Tienden 48
Nuenen Noord Brabant 5674TB
NL

00-13-2B (hex) Phoenix Digital
00132B (base 16) Phoenix Digital
7650 East Evans Rd. Bldg. A
Scottsdale Az 85260
US

00-12-EC (hex) Movacolor b.v.
0012EC (base 16) Movacolor b.v.
Koperslagersstraat 31
Sneek Friesland 8601 WL
NL

00-12-EB (hex) PDH Solutions, LLC
0012EB (base 16) PDH Solutions, LLC
34154 Bennett Rd
Warren OR 97053
US

00-13-0D (hex) GALILEO AVIONICA
00130D (base 16) GALILEO AVIONICA
VIALE EUROPA
NERVIANO MILANO 20014
IT

00-13-08 (hex) Nuvera Fuel Cells
001308 (base 16) Nuvera Fuel
Cells
129 Concord Road, #1
Billerica MA 01821
US

00-13-07 (hex) Paravirtual Corporation
001307 (base 16) Paravirtual Corporation
2953 Bunker Hill Lane
Santa Clara CA 95054

US

00-12-FC (hex) PLANET System Co.,LTD
0012FC (base 16) PLANET System Co.,LTD
4th Floor, Daehan B/D, 873-29,
Seoul 137-064
KR

00-12-C2 (hex) Apex Electronics Factory
0012C2 (base 16) Apex Electronics Factory
No.3 Industrial Zone, No.4 Block,
Shen Zhen Guang Dong 518103
CN

00-12-BE (hex) Astek Corporation
0012BE (base 16) Astek Corporation
5055 Corporate Plaza Drive
Colorado Springs Colorado 80919
US

00-12-E1 (hex) Alliant Networks, Inc
0012E1 (base 16) Alliant Networks, Inc
1259 Birchwood Dr.
Sunnyvale CA 94089
US

00-12-DF (hex) Novomatic AG
0012DF (base 16) Novomatic AG
Wiener Strasse 158
Gumpoldskirchen Niederösterreich A-2352
AT

00-12-E2 (hex) ALAXALA Networks
Corporation
0012E2 (base 16) ALAXALA Networks Corporation
890 Kashimada, Saiwai-ku
Kawasaki-shi Kanagawa-ken 212-0058
JP

00-12-FE (hex) Lenovo Mobile Communication Technology Ltd.
0012FE (base 16) Lenovo Mobile Communication Technology Ltd.
Xiamen Overseas Chinese Electronic Science Park,Huoju High Technology Development Zone
XIA MEN FU JIAN 361009
CN

00-12-F7 (hex) Xiamen Xinglian Electronics Co., Ltd.
0012F7 (base 16) Xiamen Xinglian Electronics Co., Ltd.
Xinglian Electronics (Xingtel) Building,Chuangxin Road,

Xiamen Fujian 361006
CN

00-12-C5 (hex) V-Show Technology (China) Co.,Ltd
0012C5 (base 16) V-Show Technology (China) Co.,Ltd
7F, Tengda Plaza, No.168
HaiDian District, Beijing 100089
CN

00-12-A0 (hex) NeoMeridian Sdn Bhd
0012A0 (base 16) NeoMeridian Sdn Bhd
3A-1, Perdana The Place
Bandar Damansara Perdana Selangor 47820
MY

00-12-AD (hex) VIVAVIS AG
0012AD
(base 16) VIVAVIS AG
Nobelstraße, 18
Ettlingen Baden-Württemberg 76275
DE

00-12-D4 (hex) Princeton Technology, Ltd
0012D4 (base 16) Princeton Technology, Ltd
K.A.I. Bldg. 3F
Chiyodaku Tokyo 101-0032
JP

00-12-D9 (hex) Cisco Systems, Inc
0012D9 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-12-86 (hex) ENDEVCO CORP
001286 (base 16) ENDEVCO CORP
30700 RANCHO VIEJO ROAD
SAN JUAN CAPISTRANO CA 92675
US

00-12-74 (hex) NIT lab
001274 (base 16) NIT lab
Skoriny str., 65-3
Minsk Minskaya obl. 220013
BY

00-12-70 (hex) NGES Denro Systems
001270 (base 16) NGES Denro Systems

7055 Troy Hill Dr
Elkridge MD 21075
US

00-12-6E (hex) Seidel Elektronik GmbH Nfg.KG
00126E (base 16) Seidel Elektronik GmbH Nfg.KG
Frauentalerstrasse 100
Deutschlandsberg Steiermark 8530
AT

00-12-6F (hex) Rayson Technology Co., Ltd.
00126F (base
16) Rayson Technology Co., Ltd.
1F No.9 R&D Rd.II, Science-Based Industrial Park
Hsin-Chu 300
TW

00-12-2D (hex) SiNett Corporation
00122D (base 16) SiNett Corporation
640 W. California Avenue
Sunnyvale CA 94086
US

00-12-2C (hex) Soenen Controls N.V.
00122C (base 16) Soenen Controls N.V.
Wijnedalestraat 190
Roeselare W-VL 8800
BE

00-12-63 (hex) Data Voice Technologies GmbH
001263 (base 16) Data Voice Technologies GmbH
Stockholmer Allee 32b
Dortmund NRW D-44269
DE

00-12-5C (hex) Green Hills Software, Inc.
00125C (base 16) Green Hills Software, Inc.
30 West Sola Street
Santa Barbara CA 93101
US

00-12-5F (hex) AWIND Inc.
00125F (base 16) AWIND Inc.
17F., No. 886-5, Jungjeng Rd
Taipei County 235
TW

00-12-55 (hex) NetEffect Incorporated

001255 (base 16) NetEffect Incorporated
9211 Waterford Centre Blvd
Austin Texas 78758
US

00-12-4C
(hex) BBWM Corporation
00124C (base 16) BBWM Corporation
6F, No. 578, Rui Guang Road, Nei Hu
Taipei 114
TW

00-12-44 (hex) Cisco Systems, Inc
001244 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-12-53 (hex) AudioDev AB
001253 (base 16) AudioDev AB
Kabingatan 9
Malmö SE-212 39
SE

00-12-2B (hex) Virbiage Pty Ltd
00122B (base 16) Virbiage Pty Ltd
Level 4
Melbourne Victoria 3000
AU

00-12-32 (hex) LeWiz Communications Inc.
001232 (base 16) LeWiz Communications Inc.
1376 N. 4th St. #300
San Jose CA 95112
US

00-11-DE (hex) EURILOGIC
0011DE (base 16) EURILOGIC
Centrale Parc Bât 7
Chatenay Malabry 92298
FR

00-11-DF (hex) Current Energy
0011DF (base 16) Current Energy
5440 Harvest Hill, Ste 100
Dallas TX 75230
US

00-11-D7 (hex) eWerks Inc
0011D7 (base 16) eWerks Inc
420-2166 Mountain Grove Ave
Burlington
Ontario L7P4X4
CA

00-12-1A (hex) Techno Soft Systemnics Inc.
00121A (base 16) Techno Soft Systemnics Inc.
2-5-17, Ebisu-nishi, Naniwa-ku,
Osaka 556-0003
JP

00-12-1B (hex) Sound Devices, LLC
00121B (base 16) Sound Devices, LLC
300 Wengel Drive
Reedsburg WI 53959
US

00-12-04 (hex) u10 Networks, Inc.
001204 (base 16) u10 Networks, Inc.
2-2-14 Kakinokizaka
Meguro Tokyo 152-0022
JP

00-12-0A (hex) Emerson Climate Technologies GmbH
00120A (base 16) Emerson Climate Technologies GmbH
Heerstrasse 111
Waiblingen BW 71332
DE

00-12-08 (hex) Gantner Instruments GmbH
001208 (base 16) Gantner Instruments GmbH
Montafonerstrasse 8
Schruns Vorarlberg 6780
AT

00-11-C8 (hex) Powercom Co., Ltd.
0011C8 (base 16) Powercom Co., Ltd.
8F, No. 246, Lien Chen Rd.
Chung Ho Taipei 235
TW

00-11-B4 (hex) Westermo Network Technologies AB
0011B4 (base 16) Westermo
Network Technologies AB
Stora Sundby
Sweden SE-640 40

SE

00-11-B8 (hex) Liebherr - Elektronik GmbH
0011B8 (base 16) Liebherr - Elektronik GmbH
Peter - Dornier - Strasse 11
Lindau (Bodensee) Bavaria 88131
DE

00-11-E5 (hex) KCodes Corporation
0011E5 (base 16) KCodes Corporation
7F., No. 252, Sec. 1, Neihu Rd.,
Neihu Dist. Taipei City 114
TW

00-11-EE (hex) Estari, Inc.
0011EE (base 16) Estari, Inc.
1800 Paxton St
Harrisburg PA 17104
US

00-11-C1 (hex) 4P MOBILE DATA PROCESSING
0011C1 (base 16) 4P MOBILE DATA PROCESSING
VIALE REGIONE VENETO 26
PADOVA PD 35127
IT

00-11-B2 (hex) 2001 Technology Inc.
0011B2 (base 16) 2001 Technology Inc.
7F-10, 79 Hsin Tai 5th. Rd. Sec.1
Hsi Chih Taipei County 221
TW

00-11-AF (hex) Medialink-i,Inc
0011AF (base 16) Medialink-i,Inc
1-9-10 Hamamatsu-Cho
Minato-Ku Tokyo 105-0013
JP

00-12-01 (hex) Cisco
Systems, Inc
001201 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-12-00 (hex) Cisco Systems, Inc
001200 (base 16) Cisco Systems, Inc
80 West Tasman Drive

San Jose CA 94568
US

00-11-47 (hex) Secom-Industry co.LTD.
001147 (base 16) Secom-Industry co.LTD.
Fukuoka Kuramoto Ichihonki 3-3
Shiroishi Miyagi 989-0295
JP

00-11-4A (hex) KAYABA INDUSTRY Co,.Ltd.
00114A (base 16) KAYABA INDUSTRY Co,.Ltd.
World Trade Center Bldg., 4-1
Minato-ku, Tokyo Meto. 105-6111
JP

00-11-42 (hex) e-SMARTCOM INC.
001142 (base 16) e-SMARTCOM INC.
3F, 216, Imok-Dong
Suwon Kyoungki-Do 440-310
KR

00-11-39 (hex) STOEBER ANTRIEBSTECHNIK GmbH + Co. KG.
001139 (base 16) STOEBER ANTRIEBSTECHNIK GmbH + Co. KG.
Kieselbronner Str. 12
Pforzheim 75177
DE

00-11-3E (hex) JL Corporation
00113E (base 16) JL Corporation
4-4-17 SUGE
KAWASAKI-CITY KANAGAWA-KEN
214-0001
JP

00-11-38 (hex) TAISHIN CO., LTD.
001138 (base 16) TAISHIN CO., LTD.
200-7 Nakano
Nakano Nagano 383-0013
JP

00-11-36 (hex) Goodrich Sensor Systems
001136 (base 16) Goodrich Sensor Systems
14300 Judicial Road
Burnsville Minnesota 55306-4898
US

00-11-32 (hex) Synology Incorporated
001132 (base 16) Synology Incorporated

9F., No.1, Yuandong Rd., Banqiao Dist.,
New Taipei City 220632
TW

00-11-9D (hex) Diginfo Technology Corporation
00119D (base 16) Diginfo Technology Corporation
10Fl., No.82, Fu Hsing North Road
Taipei 106
TW

00-11-9A (hex) Alkeria srl
00119A (base 16) Alkeria srl
25 Via Giuntini
Navacchio (PI) I-56023
IT

00-11-9C (hex) EP&T Energy
00119C (base 16) EP&T Energy
358 Eastern Valley Way
Sydney NSW 2067
AU

00-11-8C (hex) Missouri Department of Transportation
00118C (base 16) Missouri Department of Transportation
P.O.
Box 270
Jefferson City Missouri 65102
US

00-11-93 (hex) Cisco Systems, Inc
001193 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-11-8E (hex) Halytech Mace
00118E (base 16) Halytech Mace
Unit 11, 22 Lexington Drive
Baulkham Hills NSW 2153
AU

00-11-86 (hex) Prime Systems, Inc.
001186 (base 16) Prime Systems, Inc.
16267-333
Suwa-gun Hara-mura Nagano 391-0100
JP

00-11-83 (hex) Datalogic ADC, Inc.

001183 (base 16) Datalogic ADC, Inc.
959 Terry St
Eugene OR 97402
US

00-11-7F (hex) Neotune Information Technology Corporation,.LTD
00117F (base 16) Neotune Information Technology Corporation,.LTD
1703# No.737 North of Caoxi Rd.
Shanghai 200030
CN

00-11-7D (hex) ZMD America, Inc.
00117D (base 16) ZMD America, Inc.
15373 Innovation Drive
San Dieo CA 92128
US

00-11-7C (hex) e-zy.net
00117C (base 16) e-zy.net
Smirnis
14
Veria Imathia 59100
GR

00-11-78 (hex) Chiron Technology Ltd
001178 (base 16) Chiron Technology Ltd
Wyvols Court
Reading Berkshire RG7 1WY
GB

00-11-4D (hex) Atsumi Electric Co.,LTD.
00114D (base 16) Atsumi Electric Co.,LTD.
4-2-2 Shin-Miyakoda, Kita-ku
Hamamatsu Shizuoka 431-2103
JP

00-11-4B (hex) Francotyp-Postalia GmbH
00114B (base 16) Francotyp-Postalia GmbH
Triftweg 21-26
Birkenwerder Brandenburg 16547
DE

00-11-6A (hex) Domo Ltd
00116A (base 16) Domo Ltd
Wessex House
Eastleigh Hampshire SO50 9FD
GB

00-11-29 (hex) Paradise Datacom Ltd.
001129 (base 16) Paradise Datacom Ltd.
1 Wheaton Road
Witham Essex UK CM8 1UJ
GB

00-11-30 (hex) Allied Telesis (Hong Kong) Ltd.
001130 (base 16) Allied Telesis (Hong Kong) Ltd.
Room F, 3/F, Yeung Yiu Chong (no. 8) Industrial building,

HK

00-11-5E (hex) ProMinent Dosiertechnik GmbH
00115E
(base 16) ProMinent Dosiertechnik GmbH
Im Schumachergewann 5-11
Heidelberg BW 69123
DE

00-11-57 (hex) Oki Electric Industry Co., Ltd.
001157 (base 16) Oki Electric Industry Co., Ltd.
1-7-12 Toranomon
Tokyo 105-8460
JP

00-11-18 (hex) BLX IC Design Corp., Ltd.
001118 (base 16) BLX IC Design Corp., Ltd.
Rm 1006, Quantum Plaza
Beijing 100083
CN

00-11-07 (hex) RGB Networks Inc.
001107 (base 16) RGB Networks Inc.
2929 Campus Drive
San Mateo CA 94403
US

00-11-08 (hex) Orbital Data Corporation
001108 (base 16) Orbital Data Corporation
1900 S. Norfolk St. Ste 320
San Mateo CA 94403
US

00-11-0C (hex) Atmark Techno, Inc.
00110C (base 16) Atmark Techno, Inc.
2F SD BLDG, 2-2-3-14 Atsubetsu-nishi, Atsubetsu-ku
Sapporo Hokkaido 004-0062
JP

00-0F-D9 (hex) FlexDSL Telecommunications AG
000FD9 (base 16) FlexDSL Telecommunications AG
Haus zum Engel
Altendorf
Schwyz 8852
CH

00-0F-D0 (hex) ASTRI
000FD0 (base 16) ASTRI
18/F Tower 6, Gateway, 9 Canton Rd

HK

00-0F-AE (hex) E2O Communications
000FAE (base 16) E2O Communications
52 Serangoon North Ave 4
555853
SG

00-0F-B1 (hex) Cognio Inc.
000FB1 (base 16) Cognio Inc.
101 Orchard Ridge Drive
Gaithersburg MD 20878
US

00-0F-EC (hex) ARKUS Inc.
000FEC (base 16) ARKUS Inc.
3-8 Chuo-cho
3-8 Noda, Kitaa-Ku 700-0971
JP

00-0F-ED (hex) Anam Electronics Co., Ltd
000FED (base 16) Anam Electronics Co., Ltd
645 Sungkok-dong
Ansan-city Kyungki-do 425-834
KR

00-0F-DD (hex) SORDIN AB
000FDD (base 16) SORDIN AB
Rorlaggarvagen 8
Varnamo Smaland S-331 34
SE

00-11-20 (hex) Cisco Systems, Inc
001120 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568

US

00-0F-A7 (hex) Raptor Networks Technology
000FA7 (base
16) Raptor Networks Technology
65 Enterprise Road
Aliso Viejo CA 92656
US

00-0F-9E (hex) Murrelektronik GmbH
000F9E (base 16) Murrelektronik GmbH
Falkenstraße 3
Oppenweiler Baden-Württemberg 71570
DE

00-0F-CA (hex) A-JIN TECHLINE CO, LTD
000FCA (base 16) A-JIN TECHLINE CO, LTD
327-35
Kumchun-Ku Seoul 153-802
KR

00-0F-C3 (hex) PalmPalm Technology, Inc.
000FC3 (base 16) PalmPalm Technology, Inc.
Samsung-dong 156-3, Gangnam-gu
Seoul 135-091
KR

00-11-03 (hex) kawamura electric inc.
001103 (base 16) kawamura electric inc.
3-86 akatsuki-cho
seto aichi 489-0071
JP

00-0F-F0 (hex) Sunray Co. Ltd.
000FF0 (base 16) Sunray Co. Ltd.
Osawa2-5-5 Mitaka
Tokyo 181-0015
JP

00-0F-2B (hex) GREENBELL SYSTEMS
000F2B (base 16) GREENBELL SYSTEMS
2TH Floor, Doonam Bldg, 236-11 Nonhyun-Dong, Kangnam-Ku
Seoul 135-010
KR

00-0F-28 (hex) Itronix Corporation
000F28

(base 16) Itronix Corporation
South 801 Stevens Street
Spokane WA 99204
US

00-0F-23 (hex) Cisco Systems, Inc
000F23 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0F-88 (hex) AMETEK, Inc.
000F88 (base 16) AMETEK, Inc.
150 Freeport Road
Pittsburgh PA 15238
US

00-0F-7E (hex) Ablerex Electronics Co., LTD
000F7E (base 16) Ablerex Electronics Co., LTD
1F, No.3 Lane 7, Paokao Rd.
Hsintien Taipei Hsien 23114
TW

00-0F-5C (hex) Day One Digital Media Limited
000F5C (base 16) Day One Digital Media Limited
197 Archers Rd
Auckland North Island 1310
NZ

00-0F-52 (hex) YORK Refrigeration, Marine & Controls
000F52 (base 16) YORK Refrigeration, Marine & Controls
Jens Juulsvej 28
Viby J DK 8362
DK

00-0F-39 (hex) IRIS SENSORS
000F39 (base 16) IRIS SENSORS
ZA les Ufernets
TOULAUD Ardeche F07130
FR

00-0F-3E (hex) CardioNet,
Inc
000F3E (base 16) CardioNet, Inc
1010 Second Avenue
San Diego CA 92101
US

00-0F-3F (hex) Big Bear Networks
000F3F (base 16) Big Bear Networks
345 Potrero Ave
Sunny Vale California 94085
US

00-0F-35 (hex) Cisco Systems, Inc
000F35 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0F-36 (hex) Accurate Techhnologies, Inc.
000F36 (base 16) Accurate Techhnologies, Inc.
47199 Cartier Dr.
Wixom Michigan 48393
US

00-0F-93 (hex) Landis+Gyr Ltd.
000F93 (base 16) Landis+Gyr Ltd.
Feldstrasse 1
Zug CH-6301
CH

00-0F-94 (hex) Genexis BV
000F94 (base 16) Genexis BV
Lodewijktraat 1A
5652 AC Eindhoven
SE

00-0F-8F (hex) Cisco Systems, Inc
000F8F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0F-4C (hex) Elextech INC
000F4C (base 16) Elextech INC
554-2, Gasan-Dong, Gumcheon-Gu
Seoul
153-023
KR

00-0F-42 (hex) Xalyo Systems
000F42 (base 16) Xalyo Systems
Grenier 9
Commugny VD 1291
CH

00-0F-83 (hex) Brainium Technologies Inc.
000F83 (base 16) Brainium Technologies Inc.
#201 - 11491 Kingston Street
Maple Ridge BC V2X 0Y6
CA

00-0F-84 (hex) Astute Networks, Inc.
000F84 (base 16) Astute Networks, Inc.
15015 Ave of Science
San Diego CA 92128
US

00-0F-7D (hex) Xirrus
000F7D (base 16) Xirrus
310 North Westlake Blvd.
Westlake Village CA 91362
US

00-0F-76 (hex) Digital Keystone, Inc.
000F76 (base 16) Digital Keystone, Inc.
1975 El Camino Real
Mountain View CA 94040
US

00-0F-79 (hex) Bluetooth Interest Group Inc.
000F79 (base 16) Bluetooth Interest Group Inc.
4F, No. 9, Alley 2, Lane 35, Ji-Hu Rd.
Taipei 114
TW

00-0F-6C (hex) ADDI-DATA GmbH
000F6C (base 16) ADDI-DATA GmbH
Airport Boulevard B210
RHEINMUENSTER
BW 77836
DE

00-0F-22 (hex) Helius, Inc.
000F22 (base 16) Helius, Inc.
333 South 520 West
Lindon UT 84042
US

00-0F-24 (hex) Cisco Systems, Inc
000F24 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568

US

00-0F-17 (hex) Insta Elektro GmbH
000F17 (base 16) Insta Elektro GmbH
Hohe Steinert 10
Luedenscheid NRW 58509
DE

00-0F-1E (hex) Chengdu KT Electric Co.of High & New Technology
000F1E (base 16) Chengdu KT Electric Co.of High & New Technology
No.2 Gaopeng Dong Road,High & New Development Zone
Chengdu Sichuan 610041
CN

00-0F-15 (hex) Icotera A/S
000F15 (base 16) Icotera A/S
Vibeholms Allé 16
Brøndby 2605
DK

00-0E-A5 (hex) BLIP Systems
000EA5 (base 16) BLIP Systems
Haekken 2
Vodskov Vester Hassing 9310
DK

00-0E-A0 (hex) NetKlass Technology Inc.
000EA0 (base 16) NetKlass Technology Inc.
2F-1, No.30,Tai Yuen Street,
Chupei
City, Hsinchu, 302
TW

00-0E-E4 (hex) BOE TECHNOLOGY GROUP CO.,LTD
000EE4 (base 16) BOE TECHNOLOGY GROUP CO.,LTD
No.10 Jiuxianqiao Road,Chaoyang District,Beijing,PRC
Beijing 100016
CN

00-0E-DE (hex) REMEC, Inc.
000EDE (base 16) REMEC, Inc.
2144 Franklin Drive NE
Palm Bay Florida 32905-4021
US

00-0E-CE (hex) S.I.T.T.I. S.p.A.
000ECE (base 16) S.I.T.T.I. S.p.A.
Via Cadorna 69

Vimodrone Milan I-20090
IT

00-0E-D4 (hex) CRESITT INDUSTRIE
000ED4 (base 16) CRESITT INDUSTRIE
12 rue de Blois
Orleans BP 6744 45067 cedex
FR

00-0E-D6 (hex) Cisco Systems, Inc
000ED6 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0E-D8 (hex) Positron Access Solutions Corp
000ED8 (base 16) Positron Access Solutions Corp
5101 Buchan Street
Montreal, Quebec H4P 2R9
CA

00-0E-D1 (hex) Osaka Micro Computer.
000ED1 (base 16) Osaka
Micro Computer.
Isonokamicyo 3-11-7
Kishiwada Osaka 5960001
JP

00-0F-04 (hex) cim-usa inc
000F04 (base 16) cim-usa inc
10813 nw 30th street
miami florida 33172
US

00-0E-FC (hex) JTAG Technologies B.V.
000EFC (base 16) JTAG Technologies B.V.
Boschdijk 50
Eindhoven NB 5612 AN
NL

00-0E-FE (hex) EndRun Technologies LLC
000EFE (base 16) EndRun Technologies LLC
2270 Northpoint Parkway
Santa Rosa CA 95407
US

00-0E-B8 (hex) Iiga co.,Ltd
000EB8 (base 16) Iiga co.,Ltd

3F TKBldg. 3-5-2 Sotokanda
Chiyoda-Ku Tokyo 101-0021
JP

00-0E-BB (hex) Everbee Networks
000EBB (base 16) Everbee Networks
41, Boulevard des Capucines
Paris 75002
FR

00-0E-BE (hex) B&B Electronics Manufacturing Co.
000EBE (base 16) B&B Electronics Manufacturing Co.
707 Dayton Road
Ottawa Ilinois 61350
US

00-0E-B0 (hex) Solutions Radio BV
000EB0 (base 16) Solutions Radio BV
Prinsegracht
82
The Hague ZH 2512 GC
NL

00-0E-F3 (hex) Smartlabs, Inc.
000EF3 (base 16) Smartlabs, Inc.
1621 Alton Parkway, Suite 100
Irvine CA 92606
US

00-0E-F2 (hex) Infinico Corporation
000EF2 (base 16) Infinico Corporation
4F, F-1 Bldg., 1-2-12,
Tokyo 105-0013
JP

00-0F-0D (hex) Hunt Electronic Co., Ltd.
000F0D (base 16) Hunt Electronic Co., Ltd.
6FI, NO. 57-59, Jiun H Sien Rd., Chi Tu District
Keelung Taiwan 206
TW

00-0F-08 (hex) Indagon Oy
000F08 (base 16) Indagon Oy
Nuijamiestentie 5 A
Helsinki - 00400
FI

00-0E-77 (hex) Decru, Inc.

000E77 (base 16) Decru, Inc.
275 Shoreline Dr
Redwood City CA 94065
US

00-0E-6A (hex) 3Com Ltd
000E6A (base 16) 3Com Ltd
Peoplebuilding 2
Hemel Hempstead Herts HP2 4NW
GB

00-0E-69 (hex) China Electric Power Research Institute
000E69 (base 16) China Electric Power Research Institute
No.15
Xiaoying East Road,Qinghe,Beijing,China
Beijing 100085
CN

00-0E-90 (hex) PONICO CORP.
000E90 (base 16) PONICO CORP.
602, Ace Twin Tower 1, 212-1 Guro-dong
Gurogu Seoul 152-766
KR

00-0E-8A (hex) Avara Technologies Pty. Ltd.
000E8A (base 16) Avara Technologies Pty. Ltd.
9 Business Park Drive
Notting Hill Victoria 3168
AU

00-0E-83 (hex) Cisco Systems, Inc
000E83 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0E-49 (hex) Forsway Scandinavia AB
000E49 (base 16) Forsway Scandinavia AB
Kanikegränd 3B
541 34 Skövde
SE

00-0E-42 (hex) Motic Incoporation Ltd.
000E42 (base 16) Motic Incoporation Ltd.
Room 2907-8, Windsor House
Hong Kong
CN

00-0E-3D (hex) Televic N.V.
000E3D (base 16) Televic N.V.
Leo Bekaertlaan 1
Izegem 8870
BE

00-0E-39 (hex) Cisco Systems, Inc
000E39 (base 16) Cisco Systems, Inc
80 West
Tasman Drive
San Jose CA 94568
US

00-0E-34 (hex) NexGen City, LP
000E34 (base 16) NexGen City, LP
1680 Glenville
Richardson Texas 75081
US

00-0E-81 (hex) Devicescape Software, Inc.
000E81 (base 16) Devicescape Software, Inc.
1000 Marina Blvd
Brisbane CA 94005
US

00-0E-88 (hex) VIDEOTRON CORP.
000E88 (base 16) VIDEOTRON CORP.
17-16,2-CHOME
HACHIOJI TOKYO 193-0835
JP

00-0E-86 (hex) Alcatel North America
000E86 (base 16) Alcatel North America
2301 Sugar Bush Road
Raleigh NC 27612
US

00-0E-7E (hex) ionSign Oy
000E7E (base 16) ionSign Oy
P.O.BOX 246
Rauma
FI

00-0E-61 (hex) MICROTROL LIMITED
000E61 (base 16) MICROTROL LIMITED
16 ELGAR BUSINESS CENTRE
HALLOW WORCESTER WR2 6NJ
GB

00-0E-64 (hex) Elphel, Inc
000E64 (base 16) Elphel, Inc
3200 S. Elpmer St.
Magna UT 84044
US

00-0E-5A (hex) TELEFIELD inc.
000E5A (base
16) TELEFIELD inc.
3F, Kumbo Bldg, 2-9, Seokchon-Dong
Seoul 138-190
KR

00-0E-5D (hex) Triple Play Technologies A/S
000E5D (base 16) Triple Play Technologies A/S
Herstedvang 8
Albertslund DK-2620
DK

00-0E-2D (hex) Hyundai Digital Technology Co.,Ltd.
000E2D (base 16) Hyundai Digital Technology Co.,Ltd.
223-22, Sangdaewon-1dong, Jungwon-gu
Seongnam-si Kyoungki-do 462-807
KR

00-0E-30 (hex) AERAS Networks, Inc.
000E30 (base 16) AERAS Networks, Inc.
P.O. Box 7330
Laguna Niguel CA 92607-7330
US

00-0E-29 (hex) Shester Communications Inc
000E29 (base 16) Shester Communications Inc
159 S. Lincoln
Spokane WA 99201
US

00-0E-19 (hex) LogicaCMG Pty Ltd
000E19 (base 16) LogicaCMG Pty Ltd
17-19 Orion Road
Lane Cove NSW 2066
AU

00-0E-1A (hex) JPS Communications
000E1A (base 16) JPS Communications
5800 Departure Drive
Raleigh NC 27616

US

00-0E-52 (hex) Optium
Corporation
000E52 (base 16) Optium Corporation
500 Horizon Dr
Chalfont PA 18914
US

00-0E-4D (hex) Numesa Inc.
000E4D (base 16) Numesa Inc.
4444 Westgrove Suite 300
Addison TX 75001
US

00-0E-4C (hex) Bermai Inc.
000E4C (base 16) Bermai Inc.
410 Cambridge Ave
Palo Alto CA 94306
US

00-0E-9C (hex) Benchmark Electronics
000E9C (base 16) Benchmark Electronics
3535 Technology Drive
Rochester MN 55901
US

00-0E-9A (hex) BOE TECHNOLOGY GROUP CO.,LTD
000E9A (base 16) BOE TECHNOLOGY GROUP CO.,LTD
No.10 Jiuxianqiao Road,Chaoyang District,Beijing,PRC
Beijing 100016
CN

00-0D-AA (hex) S.A.Tehnology co.,Ltd.
000DAA (base 16) S.A.Tehnology co.,Ltd.
80-12 Yangjae 1 Dong
Seoul South Korea 137-890
KR

00-0D-A6 (hex) Universal Switching Corporation
000DA6 (base 16) Universal Switching Corporation
7671 San Fernando Rd
Burbank CA 91505-1073
US

00-0D-A2
(hex) Infrant Technologies, Inc.
000DA2 (base 16) Infrant Technologies, Inc.

48820 Kato Road
Fremont CA 94538
US

00-0D-E1 (hex) Control Products, Inc.
000DE1 (base 16) Control Products, Inc.
1724 Lake Drive West
Chanhassen MN 55317
US

00-0D-D0 (hex) TetraTec Instruments GmbH
000DD0 (base 16) TetraTec Instruments GmbH
Gewerbestrasse 8
Steinenbronn BW 71144
DE

00-0D-D3 (hex) SAMWOO Telecommunication Co.,Ltd.
000DD3 (base 16) SAMWOO Telecommunication Co.,Ltd.

Gunpo Kyoung-Gi 435-831
KR

00-0D-B3 (hex) SDO Communication Corperation
000DB3 (base 16) SDO Communication Corperation
6F, No.112, Shin Min Street
Chung Ho City Taipei Hsien 235
TW

00-0D-AE (hex) SAMSUNG HEAVY INDUSTRIES CO., LTD.
000DAE (base 16) SAMSUNG HEAVY INDUSTRIES CO., LTD.
493, Banweol-Ri, Taean-Eup
Hwaseong-City Kyeonggi-Do 445-973
KR

00-0D-B2 (hex) Ammasso, Inc.
000DB2
(base 16) Ammasso, Inc.
345 Summer Street
Boston MA 02210
US

00-0E-0D (hex) Hesch Schröder GmbH
000E0D (base 16) Hesch Schröder GmbH
Boschstraße 8
Neustadt Niedersachsen 31535
DE

00-0D-FF (hex) CHENMING MOLD INDUSTRY CORP.

000DFF (base 16) CHENMING MOLD INDUSTRY CORP.
2F No. 26, Lane 513, Rei Kuang Rd.
Taipei 114
TW

00-0D-F6 (hex) Technology Thesaurus Corp.
000DF6 (base 16) Technology Thesaurus Corp.
NO. 6, East 4th St. KEPZ
KAOHSIUNG 806
TW

00-0D-C7 (hex) COSMIC ENGINEERING INC.
000DC7 (base 16) COSMIC ENGINEERING INC.
1-3-5, Nishihirayama
Hino-shi TOKYO 191-0055
JP

00-0D-C2 (hex) Private
000DC2 (base 16) Private

00-0D-BF (hex) TekTone Sound & Signal Mfg., Inc.
000DBF (base 16) TekTone Sound & Signal Mfg., Inc.
277 Industrial Park Rd.
Franklin NC 28734
US

00-0E-06 (hex) Team Simoco Ltd
000E06 (base 16) Team Simoco Ltd
Field House
Derby
Derbyshire DE1 1NH
GB

00-0D-D8 (hex) BBN
000DD8 (base 16) BBN
7F-3,NO.186, Jian Yi Rd ., Chung Ho City
Taipei 235
TW

00-0D-5C (hex) Robert Bosch GmbH, VT-ATMO
000D5C (base 16) Robert Bosch GmbH, VT-ATMO
Wernerstrasse 51
Stuttgart BW 70469
DE

00-0D-60 (hex) IBM Corp
000D60 (base 16) IBM Corp
3039 E Cornwallis Road

Research Triangle Park NC 27709-2195
US

00-0D-5F (hex) Minds Inc
000D5F (base 16) Minds Inc
1919 boul lionel bertrand
Boisbriand Quebec J7H 1N8
CA

00-0D-54 (hex) 3Com Ltd
000D54 (base 16) 3Com Ltd
Peoplebuilding 2
Hemel Hempstead Herts HP2 4NW
GB

00-0D-8C (hex) Shanghai Wedone Digital Ltd. CO.
000D8C (base 16) Shanghai Wedone Digital Ltd. CO.
893-899 Huashan Road,
Shanghai 200031
CN

00-0D-94 (hex) AFAR Communications,Inc
000D94 (base 16) AFAR Communications,Inc
81 David Love Place
Santa Barbara CA 93117
US

00-0D-8D
(hex) Prosoft Technology, Inc
000D8D (base 16) Prosoft Technology, Inc
5201 Truxtun Ave
Bakersfield CA 93300
US

00-0D-69 (hex) TMT&D Corporation
000D69 (base 16) TMT&D Corporation
2-24-1
Fuchu-si Tokyo 183-0057
JP

00-0D-68 (hex) Vinci Systems, Inc.
000D68 (base 16) Vinci Systems, Inc.
8330 Boone Boulevard
Vienna VA 22182
US

00-0D-64 (hex) COMAG Handels AG
000D64 (base 16) COMAG Handels AG

Zillenhardtstraße 41
Goeppingen Baden-Württemberg 73037
DE

00-0D-84 (hex) Makus Inc.
000D84 (base 16) Makus Inc.
4F Daedo Bldg., 748-14 Yeoksam-dong
Kangnam-gu Seoul 135-080
KR

00-0D-74 (hex) Sand Network Systems, Inc.
000D74 (base 16) Sand Network Systems, Inc.
434 Payran Street, Suite B
Petaluma CA 94952
US

00-0D-7D (hex) Afco Systems
000D7D (base 16) Afco Systems
200 Finn Court
Farmingdale NY 11735
US

00-0D-73 (hex) Technical
Support, Inc.
000D73 (base 16) Technical Support, Inc.
11253 John Galt Blvd
Omaha Nebraska 68137
US

00-0D-9C (hex) K.A. Schmersal GmbH & Co. KG
000D9C (base 16) K.A. Schmersal GmbH & Co. KG
Im Ostpark 2
Wettenberg Hessen 35435
DE

00-0D-98 (hex) S.W.A.C. Schmitt-Walter Automation Consult GmbH
000D98 (base 16) S.W.A.C. Schmitt-Walter Automation Consult GmbH
Oedenpullach 1
Oberhaching Bavaria 82041
DE

00-0D-4C (hex) Outline Electronics Ltd.
000D4C (base 16) Outline Electronics Ltd.
7/F Benson Tower
Kwun Tong Kowloon
HK

00-0D-4D (hex) Ninelanes

000D4D (base 16) Ninelanes
#405 4F Diplomatic Center
Seoul 1376-1
KR

00-0D-53 (hex) Beijing 5w Communication Corp.
000D53 (base 16) Beijing 5w Communication Corp.
NO.4,Zhong-Guan-Cun South 4 street,
Beijing 100080
CN

00-0D-34 (hex) Shell International Exploration and Production, Inc.
000D34 (base 16) Shell
International Exploration and Production, Inc.
BTC-Gasmer
Houston TX 77001
US

00-0D-32 (hex) DispenseSource, Inc.
000D32 (base 16) DispenseSource, Inc.
29801 Santa Margarita Parkway
Rancho Santa Margarita CA 92688
US

00-0D-38 (hex) NISSIN INC.
000D38 (base 16) NISSIN INC.
10-7 KAMEI-CHO
TAKARAZUKA HYOGO 665-0047
JP

00-0D-2E (hex) Matsushita Avionics Systems Corporation
000D2E (base 16) Matsushita Avionics Systems Corporation
26200 Enterprise Way
Lake Forest CA 92630
US

00-0D-28 (hex) Cisco Systems, Inc
000D28 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0D-15 (hex) Voipac s.r.o.
000D15 (base 16) Voipac s.r.o.
Ul. Janka Krala 3
Trencin 911 01
SK

00-0D-0F (hex) Finlux Ltd
000D0F (base 16) Finlux Ltd
Radiomiehenkatu 3
Turku FIN-20321
FI

00-0D-12 (hex) AXELL Corporation
000D12 (base 16) AXELL
Corporation
Akihabara UDX South Wing 10F
Chiyoda-ku Tokyo 101-8973
JP

00-0C-A6 (hex) Mintera Corporation
000CA6 (base 16) Mintera Corporation
847 Rogers Street
Lowell MA 01852
US

00-0C-94 (hex) United Electronic Industries, Inc. (EUI)
000C94 (base 16) United Electronic Industries, Inc. (EUI)
27 Renmar Ave
Walpole MA 02081
US

00-0C-9B (hex) EE Solutions, Inc
000C9B (base 16) EE Solutions, Inc
8F, No. 9, Park II Ave., Science-Based I
Hsin Chu 300
TW

00-0C-FC (hex) S2io Technologies Corp
000CFC (base 16) S2io Technologies Corp
505 March Rd
Ottawa Ontario K2K 2M5
CA

00-0C-F6 (hex) Sitecom Europe BV
000CF6 (base 16) Sitecom Europe BV
Sevillaweg 122
Rotterdam ZH 3047 AL
NL

00-0C-F2 (hex) GAMESA Eólica
000CF2 (base 16) GAMESA Eólica
Polígono Agustinos. C/ A s/n.
Pamplona NAVARRA 31013
ES

00-0C-C1 (hex) Eaton Corporation
000CC1 (base
16) Eaton Corporation
2300 Badger Drive
Waukesha WI 53188
US

00-0C-DE (hex) ABB STOTZ-KONTAKT GmbH
000CDE (base 16) ABB STOTZ-KONTAKT GmbH
Eppelheimer Straße 82
Heidelberg Baden-Württemberg 69123
DE

00-0C-C5 (hex) Nextlink Co., Ltd.
000CC5 (base 16) Nextlink Co., Ltd.
C 605, Technopark #145 Yatop-dong,
Seongnam-si Bundang-gu, Gyeonggi 463-760
KR

00-0C-C2 (hex) ControlNet (India) Private Limited
000CC2 (base 16) ControlNet (India) Private Limited
L-44, Unit - I
Verna, Salcete Goa 403 722
IN

00-0C-E1 (hex) The Open Group
000CE1 (base 16) The Open Group
Apex Plaza
Reading Berks RG1 1AX
GB

00-0C-DC (hex) BECS Technology, Inc
000CDC (base 16) BECS Technology, Inc
9487 Dielman Rock Island Industrial Driv
St. Louis MO 63132
US

00-0C-BF (hex) Holy Stone Ent. Co., Ltd.
000CBF (base 16) Holy Stone Ent. Co., Ltd.
1F, No.62, Sec.2, Huang Shan Rd.,
Taipei
114
US

00-0C-A1 (hex) SIGMACOM Co., LTD.
000CA1 (base 16) SIGMACOM Co., LTD.
DacomBldg 7F 200-12 Anyang-dong

430-817
KR

00-0D-0A (hex) Barco Projection Systems NV
000D0A (base 16) Barco Projection Systems NV
Beneluxpark 21
Kortrijk West Flanders 8500
BE

00-0C-44 (hex) Automated Interfaces, Inc.
000C44 (base 16) Automated Interfaces, Inc.
120 Confederate Lane
Greer South Carolina 29651
US

00-0C-3B (hex) Orion Electric Co., Ltd.
000C3B (base 16) Orion Electric Co., Ltd.
41-1, Iehisa-cho
Takefu-shi Fukui 915-8555
JP

00-0C-3D (hex) Glsystech Co., Ltd.
000C3D (base 16) Glsystech Co., Ltd.
Song Bo B/D 3F
Seoul
KR

00-0C-71 (hex) Wybron, Inc
000C71 (base 16) Wybron, Inc
4830 LIst Dr
Colorado Springs Colorado 80919
US

00-0C-72 (hex) Tempearl Industrial Co., Ltd.
000C72 (base 16) Tempearl Industrial Co., Ltd.
3-1-42 Ohzu
Hiroshima-shi
Hiroshima 732-0802
JP

00-0C-78 (hex) In-Tech Electronics Limited
000C78 (base 16) In-Tech Electronics Limited
Unit A, 13th Floor., Wing Tai Centre
Kwun Tong Kowloon
HK

00-0C-2F (hex) SeorimTechnology Co.,Ltd.
000C2F (base 16) SeorimTechnology Co.,Ltd.

2F DIPLOMATIC CENTER B/D 1376-1 SEOCHO2-
SEOUL 137-072
US

00-0C-31 (hex) Cisco Systems, Inc
000C31 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0C-2E (hex) Openet information technology(shenzhen) Co., Ltd.
000C2E (base 16) Openet information technology(shenzhen) Co., Ltd.
2/F,A tower,international tech-innovatio
shenzhen guangdong 518057
CN

00-0C-2C (hex) Enwiser Inc.
000C2C (base 16) Enwiser Inc.
4F, Cheongseok B/D
Seoul Seoul 135-010
KR

00-0C-8B (hex) Connect Tech Inc
000C8B (base 16) Connect Tech Inc
42 Arrow Road
Guelph Ontario N1K 1S6
CA

00-0C-90 (hex) Octasic
Inc.
000C90 (base 16) Octasic Inc.
4101 Molson St.
Montreal Quebec H1Y 3L1
CA

00-0C-8C (hex) KODICOM CO.,LTD.
000C8C (base 16) KODICOM CO.,LTD.
A-Dong 5FI.,SK Twin Tower 345-9,
Seoul 153-023
KR

00-0C-55 (hex) Microlink Communications Inc.
000C55 (base 16) Microlink Communications Inc.
8F, 31, Hsintai Road
Hsinchu 302
TW

00-0C-59 (hex) Indyme Electronics, Inc.

000C59 (base 16) Indyme Electronics, Inc.
9085 Aero Dr.
San Diego CA 92123
US

00-0C-5C (hex) GTN Systems B.V.
000C5C (base 16) GTN Systems B.V.
Postbus 12236
Amsterdam
NL

00-0C-52 (hex) Roll Systems Inc.
000C52 (base 16) Roll Systems Inc.
53 Third Avenue
Burlington MA 01803
US

00-0C-28 (hex) RIFATRON
000C28 (base 16) RIFATRON
9th FL, SHINTAEYANG BLDG
SEOUL SEOCHO-GU 137-041
KR

00-0C-21 (hex) Faculty of Science and Technology, Keio University
000C21 (base 16) Faculty
of Science and Technology, Keio University
3-14-1 Hiyoshi, Kohoku-ku
Yokohama Kanagawa 223-8522
JP

00-0C-1B (hex) ORACOM Co, Ltd.
000C1B (base 16) ORACOM Co, Ltd.
3rd Fl, A-Sung Bldg, 999-3
Seoul 135-280
KR

00-0C-74 (hex) RIVERTEC CORPORATION
000C74 (base 16) RIVERTEC CORPORATION
882-5 MIYAGASAKI
IMABARI EHIME 799-1537
JP

00-0C-67 (hex) OYO ELECTRIC CO.,LTD
000C67 (base 16) OYO ELECTRIC CO.,LTD
63-1 Nakamichi Omote
Joyo Kyoto 610-0101
JP

00-0C-53 (hex) Private
000C53 (base 16) Private

00-0C-48 (hex) QoStek Corporation
000C48 (base 16) QoStek Corporation
7F, 22, Taiyuen Street
Chupei Hsinchu Hsien 302
TW

00-0C-4D (hex) Curtiss-Wright Controls Avionics & Electronics
000C4D (base 16) Curtiss-Wright Controls Avionics & Electronics
Landscape House,
Churchtown, Dublin 14
IE

00-0C-63 (hex) Zenith Electronics Corporation
000C63 (base 16) Zenith
Electronics Corporation
2000 Millbrook Drive
Lincolnshire Illinois 60069
US

00-0B-91 (hex) Aglaia Gesellschaft für Bildverarbeitung und Kommunikation mbH
000B91 (base 16) Aglaia Gesellschaft für Bildverarbeitung und Kommunikation mbH
Tiniusstraße 12-15
Berlin D-13089
DE

00-0B-97 (hex) Matsushita Electric Industrial Co.,Ltd.
000B97 (base 16) Matsushita Electric Industrial Co.,Ltd.
3-1-1 Yagumo-Naka-Machi
Moriguchi City Osaka 570-8501
JP

00-0B-92 (hex) Ascom Danmark A/S
000B92 (base 16) Ascom Danmark A/S
Fabriksparken 42
Glostrup Denmark 2600
DK

00-0B-9A (hex) Shanghai Ulink Telecom Equipment Co. Ltd.
000B9A (base 16) Shanghai Ulink Telecom Equipment Co. Ltd.
6 Floor, Building 3
Shanghai 200083
CN

00-0B-96 (hex) Innotrac Diagnostics Oy
000B96 (base 16) Innotrac Diagnostics Oy

Kalevantie 25
Turku Åbo 20520
FI

00-0B-BC (hex) En Garde Systems, Inc.
000BBC
(base 16) En Garde Systems, Inc.
2101 White Cloud St. NE
Albuquerque NM 87112
US

00-0B-B1 (hex) Super Star Technology Co., Ltd.
000BB1 (base 16) Super Star Technology Co., Ltd.
No. 7 Lane 306,Sec. 2,Tai-Lin Rd.
Taipei Hsien 243
US

00-0B-BF (hex) Cisco Systems, Inc
000BBF (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0B-AD (hex) PC-PoS Inc.
000BAD (base 16) PC-PoS Inc.
309 Commissioners Road West
London Ontario N6J 1Y4
CA

00-0B-A0 (hex) T&L Information Inc.
000BA0 (base 16) T&L Information Inc.
898-44 Hokye-Dong, Dongan-Gu
Anyang Kyungki-Do 431-836
KR

00-0B-C2 (hex) Corinex Communication Corp.
000BC2 (base 16) Corinex Communication Corp.
#308 1168 Hamilton Street
Vancouver B.C. V6B 2S2
US

00-0B-B5 (hex) nStor Technologies, Inc.
000BB5 (base 16) nStor Technologies, Inc.
100 Technology Park
Lake Mary FL
32746
US

00-0B-B9 (hex) Imsys AB
000BB9 (base 16) Imsys AB
Johanneslundsvagen 3
Upplands Vasby SE-19461
SE

00-0B-BB (hex) Etin Systems Co., Ltd
000BBB (base 16) Etin Systems Co., Ltd
12F, IT Venture Tower,
Seoul 138-803
KR

00-0B-F7 (hex) NIDEK CO.,LTD
000BF7 (base 16) NIDEK CO.,LTD
34-14 Maehama
Gamagori Aich 443-0038
JP

00-0C-00 (hex) BEB Industrie-Elektronik AG
000C00 (base 16) BEB Industrie-Elektronik AG
Progressastrasse 31
Oberburg BE 3414
CH

00-0B-F3 (hex) BAE SYSTEMS
000BF3 (base 16) BAE SYSTEMS
6500 Tracor Lane
Austin Texas 78725
US

00-0B-ED (hex) ELM Inc.
000BED (base 16) ELM Inc.
2398 Kasedamiyahara
Minamisatsuma Kagoshima 897-1124
JP

00-0C-17 (hex) AJA Video Systems Inc
000C17 (base 16) AJA Video Systems Inc
180 Litton Drive
Grass Valley CA 95945
US

00-0C-11 (hex) NIPPON DEMPA CO.,LTD.
000C11 (base 16) NIPPON
DEMPA CO.,LTD.
1-4-8
kakegawa city shizuoka pref. 436-0028
JP

00-0C-14 (hex) Diagnostic Instruments, Inc.
000C14 (base 16) Diagnostic Instruments, Inc.
6540 Burroughs
Sterling Heights MI 48314
US

00-0B-C9 (hex) Electroline Equipment
000BC9 (base 16) Electroline Equipment
8265 boul. St-Michel
Montreal Quebec H1Z 3E4
CA

00-0B-7A (hex) L-3 Linkabit
000B7A (base 16) L-3 Linkabit
9890 Town Center Drive
San Diego CA 92121
US

00-0B-9D (hex) TwinMOS Technologies Inc.
000B9D (base 16) TwinMOS Technologies Inc.
303 No.3, Tzu Chiang Rd., Hu Kou Xiang,
Hsin Chu 303
TW

00-0B-2C (hex) Eiki Industrial Co. Ltd.
000B2C (base 16) Eiki Industrial Co. Ltd.
4-12 Manzai-cho, Kita-ku
Osaka 530
JP

00-0B-26 (hex) Wetek Corporation
000B26 (base 16) Wetek Corporation
4F, NO.17, Kuanfu N. Road
Hsin Chu Industrial Park 303
TW

00-0B-28 (hex) Quatech Inc.
000B28
(base 16) Quatech Inc.
662 Wolf Ledges Pkwy.
Akron OH 44311
US

00-0B-30 (hex) Beijing Gongye Science & Technology Co.,Ltd
000B30 (base 16) Beijing Gongye Science & Technology Co.,Ltd
Unit D.17/E,Shenlanhuating mid Road No.6
Beijing 100029

CN

00-0B-2A (hex) HOWTEL Co., Ltd.
000B2A (base 16) HOWTEL Co., Ltd.
J-COM Bd. 4F, 124-4 OJEON-DONG
UIWANG-SHI KYOUNGGI-DO 437-070
KR

00-0B-2B (hex) HOSTNET CORPORATION
000B2B (base 16) HOSTNET CORPORATION
10F-12,No. 12 Lane 609, Sec.5,Chunghsin
Sanchung Taipei Hsien 241
TW

00-0B-50 (hex) Oxygnet
000B50 (base 16) Oxygnet
402 E. Carrillo St.
Santa Barbara CA 93101
US

00-0B-52 (hex) JOYMAX ELECTRONICS CO. LTD.
000B52 (base 16) JOYMAX ELECTRONICS CO. LTD.
No.5 Dong-Yuan Road 2, Jhong-Li Industrial Park,
Tao-Yuan 32063
TW

00-0B-10 (hex) 11wave Technonlogy Co.,Ltd
000B10 (base 16) 11wave Technonlogy Co.,Ltd
10F,no.285
sec.2 ,Ti-Ding Ave,NaiHu.Taip
Taipei 114
TW

00-0B-07 (hex) Voxpath Networks
000B07 (base 16) Voxpath Networks
7600B Capital of Texas Highway - North
Austin Texas 78731
US

00-0B-04 (hex) Volktek Corporation
000B04 (base 16) Volktek Corporation
4F., No.192, Lian-Chang Road, Chang-Ho
Taipei
TW

00-0A-F9 (hex) HiConnect, Inc.
000AF9 (base 16) HiConnect, Inc.
Rm #906, Haksan Cosmostel, 110

Kwangjin-Gu Seoul 143-802
KR

00-0B-69 (hex) Franke Finland Oy
000B69 (base 16) Franke Finland Oy
Vartiokuja 1
NAARAJARVI FIN-76850
FI

00-0B-66 (hex) Teralink Communications
000B66 (base 16) Teralink Communications
Capital Tower 15F,
Daejeon 302120
KR

00-0B-56 (hex) Cybernetics
000B56 (base 16) Cybernetics
111 Cybernetics Way STE 300
Yorktown VA 23693
US

00-0B-38 (hex) Knürr GmbH
000B38 (base 16) Knürr GmbH
Mariakirchener Straße
38
Arnstorf Bavaria 94424
DE

00-0B-32 (hex) VORMETRIC, INC.
000B32 (base 16) VORMETRIC, INC.
2060 CORPORATE CT
SAN JOSE CA 95131
US

00-0B-02 (hex) Dallmeier electronic
000B02 (base 16) Dallmeier electronic
Würzburgerstraße 5
Regensburg Bavaria 93059
DE

00-0A-F2 (hex) NeoAxiom Corp.
000AF2 (base 16) NeoAxiom Corp.
1520 Montague Expressway
San Jose CA 95131
US

00-0A-F5 (hex) Airgo Networks, Inc.
000AF5 (base 16) Airgo Networks, Inc.

900 Arastradero Rd
Palo Alto CA 94304
US

00-0B-49 (hex) RF-Link System Inc.
000B49 (base 16) RF-Link System Inc.
No.6, Nan-Ke 5th Rd., Hsin-Shi,
Tainan County 744
TW

00-0B-46 (hex) Cisco Systems, Inc
000B46 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0B-84 (hex) BODET
000B84 (base 16) BODET
Route de la Tourlandry
TREMENTINES FRANCE 49340
FR

00-0B-77 (hex) Cogent
Systems, Inc.
000B77 (base 16) Cogent Systems, Inc.
209 Fair Oaks Ave.
South Pasadena CA 91030
US

00-0B-1F (hex) I CON Computer Co.
000B1F (base 16) I CON Computer Co.
3F, No. 142 , Hsin Ming Road
Neihu Taipei 114
TW

00-0B-13 (hex) ZETRON INC
000B13 (base 16) ZETRON INC
PO Box 97004
REDMOND WA 98073
US

00-0A-CC (hex) Winnow Networks, Inc.
000ACC (base 16) Winnow Networks, Inc.
701 Emerson Road
St. Louis MO 63141
US

00-0A-CF (hex) PROVIDEO Multimedia Co. Ltd.

000ACF (base 16) PROVIDEO Multimedia Co. Ltd.
5F, NO.8, ALLEY 2, TZU-WEI LANE,
HSIN TIEN CITY TAIPEI HSIEN, 231
TW

00-0A-D1 (hex) MWS
000AD1 (base 16) MWS
12, quai Papacino
NICE 06300
FR

00-0A-D3 (hex) INITECH Co., Ltd
000AD3 (base 16) INITECH Co., Ltd
3F, INITECH Bldg, 559-5,
Seoul Songpa 138-816
KR

00-0A-C8 (hex) ZPSYS CO.,LTD. (Planning&Management)
000AC8
(base 16) ZPSYS CO.,LTD. (Planning&Management)
106 Ace Techno Tower1
Seoul 152-050
KR

00-0A-C6 (hex) Overture Networks.
000AC6 (base 16) Overture Networks.
637 Davis Drive
Morrisville NC 27560
US

00-0A-F4 (hex) Cisco Systems, Inc
000AF4 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0A-F0 (hex) SHIN-OH ELECTRONICS CO., LTD. R&D
000AF0 (base 16) SHIN-OH ELECTRONICS CO., LTD. R&D
#729-5, Bonoh-Dong, Ansan-City, Kyunggi-
Ansan-City Kyunggi-Do 425-180
KR

00-0A-EE (hex) GCD Hard- & Software GmbH
000AEE (base 16) GCD Hard- & Software GmbH
Henkestraße 79
Erlangen Bayern 91052
DE

00-0A-E9 (hex) AirVast Technology Inc.
000AE9 (base 16) AirVast Technology Inc.
3F.-5, No.6, Lane 609, Sec. 5, Chongsin Rd.
Sanchong City Taipei 241
TW

00-0A-7F (hex) Teradon Industries, Inc
000A7F (base 16) Teradon Industries, Inc
7500 2nd ST NW
Albuquerque
NM 87120
US

00-0A-81 (hex) TEIMA Audiotex S.L.
000A81 (base 16) TEIMA Audiotex S.L.
C/ Tirvia, 6, local B
Madrid 28040
ES

00-0A-87 (hex) Integrated Micromachines Inc.
000A87 (base 16) Integrated Micromachines Inc.
1400 S. Shamrock Ave.
Monrovia CA 91016
US

00-0A-77 (hex) Bluewire Technologies LLC
000A77 (base 16) Bluewire Technologies LLC
420 N. O St.
Tulare Ca 93274
US

00-0A-7A (hex) Kyoritsu Electric Co., Ltd.
000A7A (base 16) Kyoritsu Electric Co., Ltd.
2-3-17
Komae-shi Tokyo 201-0005
JP

00-0A-D8 (hex) IPCserv Technology Corp.
000AD8 (base 16) IPCserv Technology Corp.
6f,No.107,Pan-Hsin Rd
Pan-Chiao Taipei 22046
TW

00-0A-CD (hex) Sunrich Technology Limited
000ACD (base 16) Sunrich Technology Limited
Unit 1301, Eastern Centre, 1065 King's R
Quarry Bay
HK

00-0A-59 (hex) HW server
000A59 (base 16) HW server
Italska
15
Prague 2 Czech Republic 120 00
KM

00-0A-54 (hex) Laguna Hills, Inc.
000A54 (base 16) Laguna Hills, Inc.
3-5-2
Chiyoda-ku Tokyo 102-0083
JP

00-0A-52 (hex) AsiaRF Ltd.
000A52 (base 16) AsiaRF Ltd.
3F, No.176, Yongzhen Road
New Taipei City Taipei 234
TW

00-0A-8C (hex) Guardware Systems Ltd.
000A8C (base 16) Guardware Systems Ltd.
Ulloi ut 102.
Budapest H-1089
HU

00-0A-96 (hex) MEWTEL TECHNOLOGY INC.
000A96 (base 16) MEWTEL TECHNOLOGY INC.
E15FL. IT VENTURE TOWER
SEOUL 138-803
KR

00-0A-82 (hex) TATSUTA SYSTEM ELECTRONICS CO.,LTD.
000A82 (base 16) TATSUTA SYSTEM ELECTRONICS CO.,LTD.
IWATATYOU2-3-1
HIGASHIOOSAKA-SHI OOSAKA-FU 578-8585
JP

00-0A-7D (hex) Valo, Inc.
000A7D (base 16) Valo, Inc.
1351 Redwood Way
Petaluma CA 94954
US

00-0A-AB (hex) Toyota Technical Development Corporation
000AAB (base 16) Toyota Technical Development Corporation
1-9,

Imae, Hanamoto-cho
Toyota Aichi 470-0334
JP

00-0A-B4 (hex) ETIC Telecommunications
000AB4 (base 16) ETIC Telecommunications
13, chemin du vieux-chene ZIRST
MEYLAN Isere 38240
FR

00-0A-75 (hex) Caterpillar, Inc
000A75 (base 16) Caterpillar, Inc
Mailstop Location AC6130
Mossville IL 61552-0610
US

00-0A-65 (hex) GentechMedia.co.,ltd.
000A65 (base 16) GentechMedia.co.,ltd.
solvit bldg 2f, 402-8, yangjae-don,
seocho-gu, seoul 137-899
KR

00-0A-9C (hex) Server Technology, Inc.
000A9C (base 16) Server Technology, Inc.
1040 Sandhill Drive
Reno Nevada 89521
US

00-0A-22 (hex) Amperion Inc
000A22 (base 16) Amperion Inc
250 Apollo Drive
Chelmsford MA 01824
US

00-0A-1C (hex) Bridge Information Co., Ltd.
000A1C (base 16) Bridge Information Co., Ltd.
No.3, Lane 106, Wu-Kung 2 Rd.,
Taipei 248
TW

00-0A-12 (hex) Azylex Technology, Inc
000A12
(base 16) Azylex Technology, Inc
7-2Fl., No. 738 Chung Cheng Road,
Chung Ho City Taipei 235
TW

00-0A-13 (hex) Honeywell Video Systems

000A13 (base 16) Honeywell Video Systems
6554 176 Street
Surrey BC V3S 4G5
CA

00-0A-09 (hex) TaraCom Integrated Products, Inc.
000A09 (base 16) TaraCom Integrated Products, Inc.
830 Stewart Dr.
Sunnyvale CA 94085
US

00-0A-41 (hex) Cisco Systems, Inc
000A41 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0A-3E (hex) EADS Telecom
000A3E (base 16) EADS Telecom
Landshuter Strasse 26
Munich Bavaria 85716
DE

00-0A-48 (hex) Albatron Technology
000A48 (base 16) Albatron Technology
6F, No 716, Chung Cheng,
Chung-Ho City Taipei Hsien
TW

00-0A-36 (hex) Synelec Telecom Multimedia
000A36 (base 16) Synelec Telecom Multimedia
Zone Industrielle
Saint Sernin sur Rance Aveyron F-12380
FR

00-0A-32
(hex) Xsido Corporation
000A32 (base 16) Xsido Corporation
3F,2-8-13,Shiba-Daimon,
Tokyo 105-0012
JP

00-09-D9 (hex) Neoscale Systems, Inc
0009D9 (base 16) Neoscale Systems, Inc
1500 Mc Candless Drive
Milpitas CA 95035
US

00-09-D0 (hex) Solacom Technologies Inc.
0009D0 (base 16) Solacom Technologies Inc.
80 Jean-Proulx
Gatineau Quebec J8Z 1W1
CA

00-09-CC (hex) Moog GmbH
0009CC (base 16) Moog GmbH
Hanns-Klemm-Str. 28
Boeblingen D-71034
DE

00-09-C8 (hex) SINAGAWA TSUSHIN KEISOU SERVICE
0009C8 (base 16) SINAGAWA TSUSHIN KEISOU SERVICE
13-5 Fuke , Sumiyoshi , Onahama
Iwaki City Fukushima Prefecture 971-8124
JP

00-0A-2B (hex) Etherstuff
000A2B (base 16) Etherstuff
208 W. Mimosa Circle
San Marcos TX 78666
US

00-0A-00 (hex) Mediatek Corp.
000A00 (base 16) Mediatek Corp.
8F, No 69-5, Sec.2, Chung Cheng East Rd.
Taipei 251
TW

00-09-F0
(hex) Shimizu Technology Inc.
0009F0 (base 16) Shimizu Technology Inc.
15-6, No.107, Chung Shan Rd., Sec.1
Hsin Chuan, Taipei 242
US

00-09-EF (hex) Vocera Communications
0009EF (base 16) Vocera Communications
525 Race St.
San Jose California 95126
US

00-0A-4F (hex) Brain Boxes Limited
000A4F (base 16) Brain Boxes Limited
Unit 3c, Wavertree Boulevard South
Liverpool Merseyside L7 9PF
GB

00-0A-42 (hex) Cisco Systems, Inc
000A42 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0A-38 (hex) Apani Networks
000A38 (base 16) Apani Networks
1800 E. Imperial Hwy
Brea CA 92821
US

00-09-E4 (hex) K Tech Infosystem Inc.
0009E4 (base 16) K Tech Infosystem Inc.
B-405, Bundang Techno-Park 148, Yatap-do
Seongnam Kyonggi-Do 464-070
KR

00-09-72 (hex) Securebase,Inc
000972 (base 16) Securebase,Inc
2nd Fl,Seungseung-Bldg,Dokok
2-Dong,Kang
Seoul 135-854
KR

00-09-78 (hex) AIJI System Co., Ltd.
000978 (base 16) AIJI System Co., Ltd.
#208 Samho-Park-Tower Bldg. 1122-10, Ing
Suwon Gyeonggi-do 442-835
KR

00-09-73 (hex) Lenten Technology Co., Ltd.
000973 (base 16) Lenten Technology Co., Ltd.
16F, No.51, Sec.2, Gungyi Road,
Taichung City 408
TW

00-09-75 (hex) fSONA Communications Corporation
000975 (base 16) fSONA Communications Corporation
#140-11120 Horseshoe Way
Richmond BC V7A 5H7
CA

00-09-77 (hex) Brunner Elektronik AG
000977 (base 16) Brunner Elektronik AG
Müllerwis 1
Hittnau Zurich 8335

CH

00-09-A4 (hex) HARTEC Corporation
0009A4 (base 16) HARTEC Corporation
KOUHOKUKU SHIN-YOKOHAMA
YOKOHAMA-SHI KANAGAWA-KEN 222-0033
JP

00-09-A6 (hex) Ignis Optics, Inc.
0009A6 (base 16) Ignis Optics, Inc.
482 W. San Carlos
San Jose California 95110
US

00-09-A7 (hex) Bang
& Olufsen A/S
0009A7 (base 16) Bang & Olufsen A/S
Peter Bangs Vej 15
Struer 7600
DK

00-09-A0 (hex) Microtechno Corporation
0009A0 (base 16) Microtechno Corporation
2-33-36 Shimoodanaka
Kawasaki Kanagawa 211-0041
JP

00-09-9B (hex) Western Telematic Inc.
00099B (base 16) Western Telematic Inc.
5 Sterling
Irvine CA 92618
US

00-09-B7 (hex) Cisco Systems, Inc
0009B7 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-09-B2 (hex) L&F Inc.
0009B2 (base 16) L&F Inc.
4-2-9
ITABASHI-KU Tokyo 175-0083
JP

00-09-A8 (hex) Eastmode Pte Ltd
0009A8 (base 16) Eastmode Pte Ltd
30 Loyang Way #07-06

508769
SG

00-09-AA (hex) Data Comm for Business, Inc.
0009AA (base 16) Data Comm for Business, Inc.
2949 County Road 1000 East
Dewey IL 61853
US

00-09-4C (hex) Communication Weaver Co.,Ltd.
00094C (base 16) Communication
Weaver Co.,Ltd.
1~3 COWEAVER B/D 446-19,
SEOUL 121-841
KR

00-09-42 (hex) Wireless Technologies, Inc
000942 (base 16) Wireless Technologies, Inc
Ohmori Mitsubishi Bldg., 7F, Sannoh 2-chome
Tokyo 143-0023
JP

00-09-45 (hex) Palmmicro Communications Inc
000945 (base 16) Palmmicro Communications Inc
630 Alder Dr
Milpitas CA 95035
US

00-09-3E (hex) C&I Technologies
00093E (base 16) C&I Technologies
#303 Kwanbo Plaza B/D, 1467-2
Anyang-Shi Kyunggi-Do 431-808
KR

00-09-C4 (hex) Medicore Co., Ltd
0009C4 (base 16) Medicore Co., Ltd
72-3 5th Fl., Luna Bldg, Chungdam-dong
Seoul 135-080
KR

00-09-69 (hex) Meret Optical Communications
000969 (base 16) Meret Optical Communications
10070 Mesa Rim Road
San Diego California 92121
US

00-09-6E (hex) GIANT ELECTRONICS LTD.
00096E (base 16) GIANT ELECTRONICS LTD.

7/F., ELITE INDUSTRIAL BUILDING,
KWUN TONG KOWLOON

HK

00-09-6C (hex) Imedia Semiconductor Corp.
00096C (base 16) Imedia Semiconductor Corp.
4988 Great America Pkwy.
Santa Clara CA 95054
US

00-09-5F (hex) Telebyte, Inc.
00095F (base 16) Telebyte, Inc.
270 Pulaski Road
Greenlawn NY 11740-1616
US

00-09-53 (hex) Linkage System Integration Co.Ltd.
000953 (base 16) Linkage System Integration Co.Ltd.
40 Gongjianfang
Nanjing Jiangsu 210006
CN

00-09-8A (hex) EqualLogic Inc
00098A (base 16) EqualLogic Inc
9 Townsend West
Nashua NH 03062
US

00-09-7F (hex) Vsecure 2000 LTD.
00097F (base 16) Vsecure 2000 LTD.
11 Moshe Levi St.
Rishon LeZion 75658
IL

00-09-80 (hex) Power Zenith Inc.
000980 (base 16) Power Zenith Inc.
Tsujido Nishikaigan 1-10-7
Fujisawa Kanagawa 251-0046
JP

00-09-90 (hex) ACKSYS Communications & systems
000990 (base 16) ACKSYS Communications & systems
ZA du Val Joyeux
VILLEPREUX
F-78450
FR

00-08-F4 (hex) Bluetake Technology Co., Ltd.
0008F4 (base 16) Bluetake Technology Co., Ltd.
6F, No. 33, Lane 155, Sec. 3, Pei Shen R
Taipei Taiwan 222
TW

00-08-F7 (hex) Hitachi Ltd, Semiconductor & Integrated Circuits Gr
0008F7 (base 16) Hitachi Ltd, Semiconductor & Integrated Circuits Gr
20-1 Josuihon-chou 5chome
Kodaira-shi Tokyo 187-8588
JP

00-08-F5 (hex) YESTECHNOLOGY Co.,Ltd.
0008F5 (base 16) YESTECHNOLOGY Co.,Ltd.
4th FL Kyung-Am B/D 157-27 Samsung-Dong,
Seoul 135-090
KR

00-08-EC (hex) Optical Zonu Corporation
0008EC (base 16) Optical Zonu Corporation
15028 Delano Street
Van Nuys CA 91411-2016
US

00-08-CF (hex) Nippon Koei Power Systems Co., Ltd.
0008CF (base 16) Nippon Koei Power Systems Co., Ltd.
2940 Shinyoshida-cho
Kohoku-ku Yokohama 223-8506
JP

00-08-CB (hex) Zeta Broadband Inc.
0008CB (base 16) Zeta Broadband Inc.
660 Vista
Way, Suite B
Milpitas CA 95035
US

00-08-D3 (hex) Hercules Technologies S.A.S.
0008D3 (base 16) Hercules Technologies S.A.S.
6,place des colombes
Rennes Bretagne 35000
FR

00-08-D0 (hex) Musashi Engineering Co., LTD.
0008D0 (base 16) Musashi Engineering Co., LTD.
3-11-7, Nishi-shimbashi
Minato-ku Tokyo 105-0003
JP

00-09-40 (hex) AGFEO GmbH & Co. KG
000940 (base 16) AGFEO GmbH & Co. KG
Postfach 140107
Bielefeld Rhine Westfalia 33621
DE

00-09-3B (hex) HYUNDAI NETWORKS INC.
00093B (base 16) HYUNDAI NETWORKS INC.
SAN 136-1 AMI-RI BUBAL_EUP
ICHON KYUNGKI-DO 467-701
KR

00-09-34 (hex) Dream-Multimedia-Tv GmbH
000934 (base 16) Dream-Multimedia-Tv GmbH
Brückstraße 29
Menden Sauerland 58706
DE

00-09-16 (hex) Listman Home Technologies, Inc.
000916 (base 16) Listman Home Technologies, Inc.
1100 Northmeadow Parkway
Roswell Georgia 30076
US

00-09-11
(hex) Cisco Systems, Inc
000911 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-09-12 (hex) Cisco Systems, Inc
000912 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-09-08 (hex) VTech Technology Corp.
000908 (base 16) VTech Technology Corp.
2F-2, No. 124, Chung Cheng Rd., Shihlin
Taipei 11141
TW

00-09-1E (hex) Firstech Technology Corp.
00091E (base 16) Firstech Technology Corp.
8fl.,No.267,section 4,Hsin-Yi Rd. ,Da-An
Taipei 106

TW

00-09-20 (hex) EpoX COMPUTER CO.,LTD.
000920 (base 16) EpoX COMPUTER CO.,LTD.
10th Floor, No.346,Chung San Rd.,Sec.2,
Chung Ho City,Taipei Hsien 235
TW

00-09-22 (hex) TST Biometrics GmbH
000922 (base 16) TST Biometrics GmbH
Moehlstraße 39
81675 Munich
DE

00-09-05 (hex) iTEC Technologies Ltd.
000905 (base 16) iTEC Technologies Ltd.
160-1, Karak-Dong, Songpa-Gu
Seoul
138-809
KR

00-08-F9 (hex) Artesyn Embedded Technologies
0008F9 (base 16) Artesyn Embedded Technologies
2900 S. Diablo Way Suite 190
Tempe AZ 85282
US

00-09-30 (hex) AeroConcierge Inc.
000930 (base 16) AeroConcierge Inc.
10256 Yonge St.
Richmond Hill Ont. L4C 3B7
CA

00-08-E6 (hex) Littlefeet
0008E6 (base 16) Littlefeet
13000 Gregg Street
Poway California 92064
US

00-08-E2 (hex) Cisco Systems, Inc
0008E2 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-09-0B (hex) MTL Instruments PLC
00090B (base 16) MTL Instruments PLC
Power Court

Luton Bedfordshire LU1 3JJ
GB

00-08-58 (hex) Novatechnology Inc.
000858 (base 16) Novatechnology Inc.
Nova Bldg. 4F 641 03
Seoul 135-080
KR

00-08-50 (hex) Arizona Instrument Corp.
000850 (base 16) Arizona Instrument Corp.
1912 W. 4th Street
Tempe AZ 85281
US

00-08-5B
(hex) Hanbit Electronics Co., Ltd.
00085B (base 16) Hanbit Electronics Co., Ltd.
414-5, Woncheon-Dong, Paldal-Gu

KR

00-08-2B (hex) Wooksung Electronics, Inc.
00082B (base 16) Wooksung Electronics, Inc.
Jaho-Bldg. 6F, Tanbang-Dong,

KR

00-08-2E (hex) Multitone Electronics PLC
00082E (base 16) Multitone Electronics PLC
Multitone House, Beggarwood Lane

GB

00-08-C8 (hex) Soneticom, Inc.
0008C8 (base 16) Soneticom, Inc.
4325 Woodland Park Drive, Suite 102
West Melbourne Florida 32904
US

00-08-C4 (hex) Hikari Co.,Ltd.
0008C4 (base 16) Hikari Co.,Ltd.
418-4 Minaminoda Chigenobu-cho
Onsen-gun Ehime 791-0297
JP

00-08-BA (hex) Erskine Systems Ltd
0008BA (base 16) Erskine Systems Ltd

Salter Road
Scarborough North Yorkshire YO11 3DU
GB

00-08-B5 (hex) TAI GUEN ENTERPRISE CO., LTD
0008B5 (base 16) TAI GUEN ENTERPRISE CO., LTD
N0.400,
10F-7 HUANPEI RD.,
CHUNG LI 320-61
TW

00-08-B7 (hex) HIT Incorporated
0008B7 (base 16) HIT Incorporated
4F, 8, Lane 235, Pao-Chiao Road,
Shin Tien Taipei 231
TW

00-08-A2 (hex) ADI Engineering, Inc.
0008A2 (base 16) ADI Engineering, Inc.
1769A Worth Park
Charlottesville VA 22911
US

00-08-98 (hex) Gigabit Optics Corporation
000898 (base 16) Gigabit Optics Corporation
1156 Aster Ave.
Sunnyvale CA 94086-6810
US

00-08-9B (hex) ICP Electronics Inc.
00089B (base 16) ICP Electronics Inc.
4F, No. 22, Chung-Hsing Rd. Shi-Chi City
Taipei 221
TW

00-08-9C (hex) Elecs Industry Co., Ltd.
00089C (base 16) Elecs Industry Co., Ltd.
1-22-23,Shinsaku,Takatsu-Ku
Kawasaki Kanagawa 213-0014
JP

00-08-9D (hex) UHD-Elektronik
00089D (base 16) UHD-Elektronik
Zuercherstrasse 12
Baden AG 5400
CH

00-08-18 (hex) Pixelworks, Inc.

000818 (base 16) Pixelworks,
Inc.
226 Airport Parkway, Suite 595
San Jose CA 95110
US

00-08-0F (hex) Proximion Fiber Optics AB
00080F (base 16) Proximion Fiber Optics AB
Isafjordsgatan 9

SE

00-08-12 (hex) GM-2 Corporation
000812 (base 16) GM-2 Corporation
Shiba-Matushira-Bldg.
Tokyo Minato-ku 105-0014
JP

00-08-0B (hex) Birka BPA Informationssystem AB
00080B (base 16) Birka BPA Informationssystem AB
Box 20100

SE

00-08-0A (hex) Espera-Werke GmbH
00080A (base 16) Espera-Werke GmbH
Moltkestrasse 17- 33

DE

00-08-8F (hex) ADVANCED DIGITAL TECHNOLOGY
00088F (base 16) ADVANCED DIGITAL TECHNOLOGY
ADT BLDG.,3-3, YANGJAE-DONG,
SEOUL
KR

00-08-8B (hex) Tropic Networks Inc.
00088B (base 16) Tropic Networks Inc.
135 Micheal Cowpland Drive
Ottawa Ontario K2M2E9
CA

00-08-86 (hex) Hansung Teliann, Inc.
000886 (base 16) Hansung Teliann, Inc.
195-1, Neungpyung-ri,
Opo-eub

KR

00-08-2A (hex) Powerwallz Network Security
00082A (base 16) Powerwallz Network Security
120-13160 Vanier Place,
V6V 2J2
CA

00-08-17 (hex) EmergeCore Networks LLC
000817 (base 16) EmergeCore Networks LLC
10542 S. Jordan Gateway
South Jordan UT 84095
US

00-08-15 (hex) CATS Co., Ltd.
000815 (base 16) CATS Co., Ltd.
751-2 Kachida-cho,
224-0034
JP

00-08-5D (hex) Mitel Corporation
00085D (base 16) Mitel Corporation
350 Legget Drive
- K2K 2W7
CA

00-08-55 (hex) NASA-Goddard Space Flight Center
000855 (base 16) NASA-Goddard Space Flight Center
Code 561
Greenbelt MD 20771
US

00-08-5A (hex) IntiGate Inc.
00085A (base 16) IntiGate Inc.
309E IT Venture Tower
Seoul 138-803
KR

00-08-A9 (hex) SangSang Technology, Inc.
0008A9 (base 16) SangSang Technology, Inc.
64-8, Nogok-ri, Docheok-myun,
Gwangju Kyonggi-do 464-882
KR

00-08-A5
(hex) Peninsula Systems Inc.
0008A5 (base 16) Peninsula Systems Inc.
6902 Verde Ridge Rd.
Rancho Palos Verdes CA 90275

US

00-08-7F (hex) SPAUN electronic GmbH & Co. KG
00087F (base 16) SPAUN electronic GmbH & Co. KG
Byk-Gulden - Str. 22

DE

00-08-6B (hex) MIPSYS
00086B (base 16) MIPSYS
19C, Avenue des Indes
LES ULIS Cedex FR-91969
FR

00-07-F0 (hex) LogiSync LLC
0007F0 (base 16) LogiSync LLC
1313 Lear Industrial Parkway
Avon OH 44011
US

00-07-E7 (hex) FreeWave Technologies
0007E7 (base 16) FreeWave Technologies
1880 S. Flaitron Ct.
Boulder CO 80301
US

00-07-E3 (hex) Navcom Technology, Inc.
0007E3 (base 16) Navcom Technology, Inc.
123 West Torrance Blvd.,
Redondo Beach CA 90277
US

00-07-E1 (hex) WIS Communications Co. Ltd.
0007E1 (base 16) WIS Communications Co. Ltd.
4/F Building 533
Shenzhen Guangdong Providence

CN

00-07-E0 (hex) Palm Inc.
0007E0 (base 16) Palm Inc.
950 West Maude Ave
Sunnyvale CA 94085-2801
US

00-07-FA (hex) ITT Co., Ltd.
0007FA (base 16) ITT Co., Ltd.
1-14-7, Mukohjyuku,

JP

00-07-F6 (hex) Qqest Software Systems
0007F6 (base 16) Qqest Software Systems
860 East 4500 South #200
Murray UT 84107
US

00-07-FB (hex) Giga Stream UMTS Technologies GmbH
0007FB (base 16) Giga Stream UMTS Technologies GmbH
Konrad-Zuse-Strabe 7

DE

00-07-ED (hex) Altera Corporation
0007ED (base 16) Altera Corporation
101 Innovation Drive
San Jose CA 95134
US

00-07-EA (hex) Massana, Inc.
0007EA (base 16) Massana, Inc.
2901 Tasman Drive
Santa Clara CA 95054
US

00-07-F1 (hex) TeraBurst Networks Inc.
0007F1 (base 16) TeraBurst Networks Inc.
985 Stewart Drive
Sunnyvale CA 94086
US

00-07-F2 (hex) IOA Corporation
0007F2 (base 16) IOA
Corporation
350 Potrero Ave.
Sunnyvale CA 94085
US

00-07-D6 (hex) Commil Ltd.
0007D6 (base 16) Commil Ltd.
P.O. Box 10050

IL

00-07-D7 (hex) Caporis Networks AG
0007D7 (base 16) Caporis Networks AG

Süggelstraße 31

DE

00-07-D4 (hex) Zhejiang Yutong Network Communication Co Ltd.
0007D4 (base 16) Zhejiang Yutong Network Communication Co Ltd.
805 HuaXing Technical Building
Zhejiang
CN

00-07-CE (hex) Cabletime Limited
0007CE (base 16) Cabletime Limited
64 Greenham Road
Newbury Berkshire RG14 7HX
GB

00-07-D3 (hex) SPGPrints B.V.
0007D3 (base 16) SPGPrints B.V.
Raamstraat 1-3, 5831 AT Boxmeer
Boxmeer
NL

00-07-D0 (hex) Automat Engenharia de Automação Ltda.
0007D0 (base 16) Automat Engenharia de Automação Ltda.
Rua Santo Antonio, 917 - Reboucas
80230-120
BR

00-07-AD (hex) Pentacon GmbH Foto-und Feinwerktechnik
0007AD (base
16) Pentacon GmbH Foto-und Feinwerktechnik
Enderstrabe 94

DE

00-07-AC (hex) Eolring
0007AC (base 16) Eolring
10 Rue Alfred Kastler

FR

00-07-AA (hex) Quantum Data Inc.
0007AA (base 16) Quantum Data Inc.
2111 Big Timber Rd.
Elgin IL 60123-1100
US

00-07-A4 (hex) GN Netcom Ltd.

0007A4 (base 16) GN Netcom Ltd.
12-13 Sedling Road, Wear Est., District
England NE38 9BZ
GB

00-07-AF (hex) Red Lion Controls, LP
0007AF (base 16) Red Lion Controls, LP
20 Willow Springs Circle
York NY 17402
US

00-07-B2 (hex) Transaccess S.A.
0007B2 (base 16) Transaccess S.A.
R. Galeno De Castro, 1445
São Paulo SP
BR

00-07-9D (hex) Musashi Co., Ltd.
00079D (base 16) Musashi Co., Ltd.
3-21-1, Shimo-ochiai,
Tokyo 161-0033
JP

00-07-9F (hex) Action Digital Inc.
00079F (base 16) Action Digital Inc.
10650 Main St.
Fairfax VA 22030
US

00-07-92
(hex) Sütron Electronic GmbH
000792 (base 16) Sütron Electronic GmbH
Kurze Straße 29

DE

00-07-90 (hex) Tri-M Technologies (s) Limited
000790 (base 16) Tri-M Technologies (s) Limited
Blk 25, Kallang Avenue #07-01/04
339416
SG

00-07-8D (hex) NetEngines Ltd.
00078D (base 16) NetEngines Ltd.
146 Walnut Tree Close
GUI 4UB
GB

00-07-8A (hex) Mentor Data System Inc.
00078A (base 16) Mentor Data System Inc.
No. 24-1, Industry East 4 Rd.,
Hsin-Chu,
TW

00-07-84 (hex) Cisco Systems, Inc
000784 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-07-76 (hex) Federal APD
000776 (base 16) Federal APD
42775 Nine Mile Rd.
Novi MI 48375
US

00-07-7A (hex) Infoware System Co., Ltd.
00077A (base 16) Infoware System Co., Ltd.
Mizorogi Daiichi Bldg 4 F
Tokyo
JP

00-07-6A (hex) NEXTEYE Co., Ltd.
00076A (base
16) NEXTEYE Co., Ltd.
Shinsegi Plaza 4F, 900-9,
Kyunggi 431-070
KR

00-04-7C (hex) Skidata AG
00047C (base 16) Skidata AG
T-697553 Untersbergstr. 40

AT

00-07-BE (hex) DataLogic SpA
0007BE (base 16) DataLogic SpA
Via Candini, 2
Bologna
IT

00-06-DC (hex) Syabas Technology (Amquest)
0006DC (base 16) Syabas Technology (Amquest)
4727 Paseo Padre Parkway
Fremont CA 94555
US

00-06-E6 (hex) DongYang Telecom Co., Ltd.
0006E6 (base 16) DongYang Telecom Co., Ltd.
642-7 Deung Chon-Dong, KangSeo-Gu
Seoul 157-841
KR

00-06-D2 (hex) Tundra Semiconductor Corp.
0006D2 (base 16) Tundra Semiconductor Corp.
603 March Road
K2K-2M5
CA

00-06-E7 (hex) Bit Blitz Communications Inc.
0006E7 (base 16) Bit Blitz Communications Inc.
830 Hillview Ct., #290
Milpitas CA 95035
US

00-06-ED (hex) Inara Networks
0006ED (base 16) Inara Networks
3031 Tisch
Way,
San Jose CA 95128
US

00-06-D8 (hex) Maple Optical Systems
0006D8 (base 16) Maple Optical Systems
3200 North First St.
San Jose CA 95134
US

00-06-CF (hex) Thales Avionics In-Flight Systems, LLC
0006CF (base 16) Thales Avionics In-Flight Systems, LLC
17481 Red Hill Avenue
Irvine CA 92614-5630
US

00-06-DB (hex) ICHIPS Co., Ltd.
0006DB (base 16) ICHIPS Co., Ltd.
3F, Samjeon Bldg., 236-3
Seoul-City 135-01
KR

00-07-67 (hex) Yuxing Electronics Company Limited
000767 (base 16) Yuxing Electronics Company Limited
Unit 1808, 18/F Tower 3,
Kowloon Bay, Kowloon

HK

00-07-5B (hex) Gibson Guitars
00075B (base 16) Gibson Guitars
309 Park Plus Blvd.
Nashville TN 37217
US

00-07-62 (hex) Group Sense Limited
000762 (base 16) Group Sense Limited
27/F, Wu Chung House,
Wanchai
HK

00-07-0C (hex) SVA-Intrusion.com Co. Ltd.
00070C (base 16) SVA-Intrusion.com
Co. Ltd.
The 4th Floor, No. 28 Building
Shanghai 20233
CN

00-07-0F (hex) Fujant, Inc.
00070F (base 16) Fujant, Inc.
6305 Carpinteria Avenue
Carpinteria CA 93013-2901
US

00-07-14 (hex) Brightcom
000714 (base 16) Brightcom
6 Hanechoshet St.,

IL

00-06-F3 (hex) AcceLight Networks
0006F3 (base 16) AcceLight Networks
70 Abele Road, Building 1200
Pittsburgh PA 15017
US

00-06-FE (hex) Ambrado, Inc
0006FE (base 16) Ambrado, Inc
11301 W. President George Bush Fwy.
Richardson TX 75080
US

00-07-27 (hex) Zi Corporation (HK) Ltd.
000727 (base 16) Zi Corporation (HK) Ltd.
30/F, China Resources Building

HK

00-07-2E (hex) North Node AB
00072E (base 16) North Node AB
Skeppsloron 42

SE

00-06-9A (hex) e & Tel
00069A (base 16) e & Tel
100 Sejong-no Chongno-gu,

KR

00-06-99 (hex) Vida Design Co.
000699
(base 16) Vida Design Co.
10F, No. 278 Ho Ping E. Rd.,

TW

00-06-8D (hex) SEPATON, Inc.
00068D (base 16) SEPATON, Inc.
400 Nickerson Rd.
Marlborough MA 01752
US

00-06-53 (hex) Cisco Systems, Inc
000653 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-06-4F (hex) PRO-NETS Technology Corporation
00064F (base 16) PRO-NETS Technology Corporation
Pao-Chung Road,
Hsin Tien Taipei,
TW

00-06-51 (hex) Aspen Networks Inc.
000651 (base 16) Aspen Networks Inc.
3777 Stevens Creek Blvd
Santa Clara CA 95051
US

00-06-5C (hex) Malachite Technologies, Inc.
00065C (base 16) Malachite Technologies, Inc.

195 New Hampshire Avenue
Portsmouth NH 03801
US

00-06-42 (hex) Genetel Systems Inc.
000642 (base 16) Genetel Systems Inc.
Mockwoo B/D, 912 Walpyoung-Dong
302-852
KR

00-06-A2 (hex) Microtune, Inc.
0006A2 (base 16) Microtune,
Inc.
6440 Lusk Blvd., Suite D205
San Diego CA 92121
US

00-06-A6 (hex) Artistic Licence Engineering Ltd
0006A6 (base 16) Artistic Licence Engineering Ltd
24 Forward Drive
Harrow Middlesex HA3 8NT
GB

00-06-AA (hex) VT Miltope
0006AA (base 16) VT Miltope
4900 Pearl East Circle
Boulder CO 80301
US

00-06-57 (hex) Market Central, Inc.
000657 (base 16) Market Central, Inc.
500 Business Center Drive
Pittsburgh PA 15205-1333
US

00-06-97 (hex) R & D Center
000697 (base 16) R & D Center
5F, Seungwon B/D, 810-9
Seoul
KR

00-06-4A (hex) Honeywell Co., Ltd. (KOREA)
00064A (base 16) Honeywell Co., Ltd. (KOREA)
56, Chaam-dong, Chonan-city

KR

00-06-3F (hex) Everex Communications Inc.

00063F (base 16) Everex Communications Inc.
5020A Brandin Ct.
Fremont CA 94538
US

00-06-3D (hex) Microwave Data Systems Inc.
00063D (base 16) Microwave
Data Systems Inc.
175 Science Parkway
Rochester NY 14620
US

00-06-39 (hex) Newtec
000639 (base 16) Newtec
Laarstraat 5

BE

00-06-2F (hex) Pivotech Systems Inc.
00062F (base 16) Pivotech Systems Inc.
200 Centennial Ave.,
Piscataway NJ 08854
US

00-06-6A (hex) InfiniCon Systems, Inc.
00066A (base 16) InfiniCon Systems, Inc.
700 American Ave.
King of Prussia PA 19406
US

00-06-61 (hex) NIA Home Technologies Corp.
000661 (base 16) NIA Home Technologies Corp.
Innovation Incubator, NTHU,
Hsinchu 30013,
TW

00-06-6B (hex) Sysmex Corporation
00066B (base 16) Sysmex Corporation
4-4-4 Takatsukadai,
651-2271
JP

00-05-5A (hex) Power Dsine Ltd.
00055A (base 16) Power Dsine Ltd.
1 Hanagar St., P.O. Box 7220

IL

00-06-7D (hex) Takasago Ltd.
00067D (base 16) Takasago Ltd.
1-24-16 Mizonokuchi Takatsu-ku

JP

00-06-71 (hex) Softing
AG
000671 (base 16) Softing AG
Richard-Reitzner-Allee 6

DE

00-06-72 (hex) Netezza
000672 (base 16) Netezza
1671 Worcester Road
Framingham MA 01701
US

00-06-B8 (hex) Bandspeed Pty Ltd
0006B8 (base 16) Bandspeed Pty Ltd
Level 9, 5000 Collins Street

AU

00-06-BB (hex) ATI Technologies Inc.
0006BB (base 16) ATI Technologies Inc.
75 Tiverton Court

CA

00-06-BD (hex) BNTECHNOLOGY Co., Ltd.
0006BD (base 16) BNTECHNOLOGY Co., Ltd.
602 Youngshin Bldg. 238-8
Seoul
KR

00-06-C3 (hex) Schindler Elevator Ltd.
0006C3 (base 16) Schindler Elevator Ltd.
R&D-CO
Ebikon CH-6030
CH

00-06-B2 (hex) Linxtek Co.
0006B2 (base 16) Linxtek Co.
2F Kum-a B/D 31-3 Karak-dong,
138-160
KR

00-06-B6 (hex) Nir-Or Israel Ltd.
0006B6 (base 16) Nir-Or Israel Ltd.
11 Amal St.

IL

00-06-A3 (hex) Bitran Corporation
0006A3
(base 16) Bitran Corporation
2213 Mochida

JP

00-06-9F (hex) Kuokoa Networks
00069F (base 16) Kuokoa Networks
2901 Tasman Dr.
Santa Clara CA 95054
US

00-06-84 (hex) Biacore AB
000684 (base 16) Biacore AB
Software, Electronics and Optics

SE

00-06-82 (hex) Convedia
000682 (base 16) Convedia
4190 Still Creek Dr.
V5C 6C6
CA

00-05-D6 (hex) L-3 Linkabit
0005D6 (base 16) L-3 Linkabit
9890 Town Center Drive
San Diego CA 92121
US

00-05-DA (hex) Apex Automationstechnik
0005DA (base 16) Apex Automationstechnik
Vossenkamp 4

DE

00-05-C7 (hex) I/F-COM A/S
0005C7 (base 16) I/F-COM A/S
Ellegaardvej 36

DK

00-05-C6 (hex) Triz Communications
0005C6 (base 16) Triz Communications
Anwon Bldg. 7th Fl.
Seoul 150-010
KR

00-05-CC (hex) Sumtel Communications, Inc.
0005CC (base 16) Sumtel Communications, Inc.
1F,
No. 173, Gung Yuan Road,
Hsinchu City 30054
TW

00-05-E3 (hex) LightSand Communications, Inc.
0005E3 (base 16) LightSand Communications, Inc.
375 Los Coches St.
Milpitas CA 94539
US

00-05-ED (hex) Technikum Joanneum GmbH
0005ED (base 16) Technikum Joanneum GmbH
Alte Poststrasse 149

AT

00-05-EF (hex) ADOIR Digital Technology
0005EF (base 16) ADOIR Digital Technology
28 Fl, ZhaoFeng World Trade Bldg.
Shanghai 200050,
CN

00-05-E9 (hex) Unicess Network, Inc.
0005E9 (base 16) Unicess Network, Inc.
870 Dorothy Dr. #708
Richardson TX 75081
US

00-06-1E (hex) Maxan Systems
00061E (base 16) Maxan Systems
1-84, Woulam-dong

KR

00-06-22 (hex) Chung Fu Chen Yeh Enterprise Corp.
000622 (base 16) Chung Fu Chen Yeh Enterprise Corp.
2F No. 666 Jing Ping Road,

Taipei Hsien
TW

00-06-12 (hex) Accusys, Inc.
000612 (base 16) Accusys, Inc.
5F,
No. 38, Taiyuan St
Hsinchu County 30265
TW

00-06-09 (hex) Crossport Systems
000609 (base 16) Crossport Systems
10940 NE 33rd Place
Bellevue WA 98005
US

00-05-BB (hex) Myspace AB
0005BB (base 16) Myspace AB
Sveavagen 33

SE

00-05-A9 (hex) Princeton Networks, Inc.
0005A9 (base 16) Princeton Networks, Inc.
100 Century Center Ct. #100
San Jose CA 95112
US

00-05-AF (hex) InnoScan Computing A/S
0005AF (base 16) InnoScan Computing A/S
Soren Frichsvej 42R

DK

00-05-A1 (hex) Zenocom
0005A1 (base 16) Zenocom
No.402, 4th floor, Wongok Bldg.
Seoul
KR

00-06-16 (hex) Tel Net Co., Ltd.
000616 (base 16) Tel Net Co., Ltd.
3F BOF Bldg 730-15 Goje Song

KR

00-06-0D (hex) Wave7 Optics
00060D (base 16) Wave7 Optics

1075 Windward Ridge Pkwy.
Alpharetta GA 30005
US

00-CB-BD (hex) Cambridge Broadband Networks Group
00CBBD
(base 16) Cambridge Broadband Networks Group
1 Hammersmith Broadway
London W6 9DL
GB

00-05-CF (hex) Thunder River Technologies, Inc.
0005CF (base 16) Thunder River Technologies, Inc.
23 Corporate Plaza Ste. 250
Newport Beach CA 92660
US

00-06-36 (hex) Jedai Broadband Networks
000636 (base 16) Jedai Broadband Networks
331 Newman Springs Rd.
Red Bank NJ 07701
US

00-06-00 (hex) Toshiba Teli Corporation
000600 (base 16) Toshiba Teli Corporation
4-7-1 Asahigaoka, Hino-Shi,
Tokyo 191-0065
JP

00-05-E6 (hex) Egenera, Inc.
0005E6 (base 16) Egenera, Inc.
165 Forest St.
Marlboro MA 01752
US

00-05-A0 (hex) MOBILINE Kft.
0005A0 (base 16) MOBILINE Kft.
Lehel Utca 14
H-1134
HU

00-05-A6 (hex) Extron Electronics
0005A6 (base 16) Extron Electronics
1230 S. Lewis
Anahiem CA 92805
US

00-05-88 (hex) Sensoria Corp.

000588 (base 16) Sensoria
Corp.
15950 Bernardo Ctr. Dr.
San Diego CA 92127
US

00-05-8D (hex) Lynx Photonic Networks, Inc.
00058D (base 16) Lynx Photonic Networks, Inc.
13 Hamelaha St.

IL

00-05-8A (hex) Netcom Co., Ltd.
00058A (base 16) Netcom Co., Ltd.
1F, No. 7, Lane 242,
Taipei
TW

00-05-91 (hex) Active Silicon Ltd
000591 (base 16) Active Silicon Ltd
Pinewood Mews
Iver SL0 0NA
GB

00-05-93 (hex) Grammar Engine Inc.
000593 (base 16) Grammar Engine Inc.
921 Eastwind Drive
Westerville OH 43081
US

00-05-3A (hex) Willowglen Services Pte Ltd
00053A (base 16) Willowglen Services Pte Ltd
151 Lorong Chuan,
556741
SG

00-05-31 (hex) Cisco Systems, Inc
000531 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-05-39 (hex) A Brand New World in Sweden AB
000539 (base 16) A Brand New World in Sweden AB
Box 1223

SE

00-05-2A
(hex) Ikegami Tsushinki Co., Ltd.
00052A (base 16) Ikegami Tsushinki Co., Ltd.
5-6-16 Ikegami Ohta-ku,
146-8567
JP

00-05-2D (hex) Zoltrix International Limited
00052D (base 16) Zoltrix International Limited
Room 701 Po Hing Centre,

HK

00-05-25 (hex) Puretek Industrial Co., Ltd.
000525 (base 16) Puretek Industrial Co., Ltd.
No. 14, 4 Flr. Lane 235

TW

00-05-41 (hex) Advanced Systems Co., Ltd.
000541 (base 16) Advanced Systems Co., Ltd.
2-9-7 Nishikicho,
190-0022
JP

00-05-45 (hex) Internet Photonics
000545 (base 16) Internet Photonics
1030 Broad St., 2nd Floor
Shrewsbury NJ 07702
US

00-05-64 (hex) Tsinghua Bitway Co., Ltd.
000564 (base 16) Tsinghua Bitway Co., Ltd.
12 Floor, Tower C, Corporate

CN

00-05-58 (hex) Synchronous, Inc.
000558 (base 16) Synchronous, Inc.
77 Las Colinas Lane
San Jose CA 95119
US

00-05-8F
(hex) CLCsoft co.
00058F (base 16) CLCsoft co.
Dept. of Electrical Engineering

KR

00-05-84 (hex) AbsoluteValue Systems, Inc.
000584 (base 16) AbsoluteValue Systems, Inc.
715-D North Dr.
Melbourne FL 32934
US

00-05-7A (hex) Overture Networks
00057A (base 16) Overture Networks
637 Davis Drive
Morrisville NC 27560
US

00-05-50 (hex) Vcomms Connect Limited
000550 (base 16) Vcomms Connect Limited
75 The Esplanade, Level 3
Wellington Mail Centre 5045 Wellington
NZ

00-04-F5 (hex) SnowShore Networks, Inc.
0004F5 (base 16) SnowShore Networks, Inc.
285 Billerica Road
Chelmsford MA 01824
US

00-04-F2 (hex) Polycom
0004F2 (base 16) Polycom
1000 West 14th Street
Canada V7P3P3
CA

00-04-F3 (hex) FS FORTH-SYSTEME GmbH
0004F3 (base 16) FS FORTH-SYSTEME GmbH
Küferstraße 8

DE

00-04-ED (hex) Billion Electric Co., Ltd.
0004ED (base 16) Billion
Electric Co., Ltd.
8F, No.192, Sec.2, Chung Hsing Rd.,
Taiwan Taiwan ROC
TW

00-04-E7 (hex) Lightpointe Communications, Inc
0004E7 (base 16) Lightpointe Communications, Inc
10140 Barnes Canyon Road

San Diego CA 92121
US

00-04-A6 (hex) SAF Tehnika Ltd.
0004A6 (base 16) SAF Tehnika Ltd.
91 Dzirnavu Str.,

LV

00-04-A8 (hex) Broadmax Technologies, Inc.
0004A8 (base 16) Broadmax Technologies, Inc.
180, Wai Yip Street,
HONG KONG
HK

00-04-A1 (hex) Pathway Connectivity
0004A1 (base 16) Pathway Connectivity
1439-17 Avenue SE
Calgary Alberta T2G 1J9
CA

00-04-A2 (hex) L.S.I. Japan Co., Ltd.
0004A2 (base 16) L.S.I. Japan Co., Ltd.
1-8-14 Sendagaya Shibuya-Ku
Tokyo 151-0051
JP

00-04-9B (hex) Cisco Systems, Inc
00049B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-04-F9 (hex) Xtera Communications, Inc.
0004F9
(base 16) Xtera Communications, Inc.
500 W Bethany Drive
Allen TX 75013
US

00-04-FA (hex) NBS Technologies Inc.
0004FA (base 16) NBS Technologies Inc.
703 Evans Avenue, Suite 400
Ontario M9C 5E9
CA

00-04-F8 (hex) QUALICABLE TV Industria E Com., Ltda
0004F8 (base 16) QUALICABLE TV Industria E Com., Ltda

Av. Joao Paulo Ablas, 308

BR

00-04-E6 (hex) Banyan Network Private Limited
0004E6 (base 16) Banyan Network Private Limited
443, 8th Floor, Guna Complex

IN

00-04-DE (hex) Cisco Systems, Inc
0004DE (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-04-E1 (hex) Infinior Microsystems
0004E1 (base 16) Infinior Microsystems
2F, Accufar Bldg, 234-10,
Seoul KOREA 138-220
KR

00-05-17 (hex) Shellcomm, Inc.
000517 (base 16) Shellcomm, Inc.
Rm #6122 ETRI TBI Center, 1,

KR

00-05-1C (hex) Xnet Technology Corp.
00051C
(base 16) Xnet Technology Corp.
9F-16, No. 12, Lane 609,

TW

00-05-12 (hex) Zebra Technologies Inc
000512 (base 16) Zebra Technologies Inc
475 Half Day Road
Lincolnshire IL 60069
US

00-04-C2 (hex) Magnipix, Inc.
0004C2 (base 16) Magnipix, Inc.
3539 St-Charles Blvd., Suite 212
CANADA H9H3C4
CA

00-05-03 (hex) ICONAG

000503 (base 16) ICONAG
AM Bahnhof 2

DE

00-04-CE (hex) Patria Ailon
0004CE (base 16) Patria Ailon
Naulakatu 3

FI

00-04-C7 (hex) NetMount
0004C7 (base 16) NetMount
P.O.B. 2325

IL

00-04-6A (hex) Navini Networks
00046A (base 16) Navini Networks
3605 E. Plano Pkwy,
Plano TX 75074
US

00-04-6B (hex) Palm Wireless, Inc.
00046B (base 16) Palm Wireless, Inc.
48933 Warm Springs Blvd.
Fremont CA 94539
US

00-04-72 (hex) Telelynx, Inc.
000472 (base 16) Telelynx, Inc.
3F-1, 66 Nankan
Rd.,
TAIWAN
TW

00-04-64 (hex) Pulse-Link Inc
000464 (base 16) Pulse-Link Inc
1934 Kellogg Avenue
Carlsbad CA 92008
US

00-04-65 (hex) i.s.t isdn-support technik GmbH
000465 (base 16) i.s.t isdn-support technik GmbH
Rhein Strasse 7E

DE

00-04-86 (hex) ITTC, University of Kansas
000486 (base 16) ITTC, University of Kansas
2335 Irving Hill Rd.
Lawrence KS 66045
US

00-04-8B (hex) Poscon Corporation
00048B (base 16) Poscon Corporation
#606 Ho-Dong, Nam Gu,
SOUTH KOREA
KR

00-04-84 (hex) Amann GmbH
000484 (base 16) Amann GmbH
Unteranger 6

DE

00-04-78 (hex) G. Star Technology Corporation
000478 (base 16) G. Star Technology Corporation
4th Floor, No. 118, Sector 2
Taipei City Taipei City TAIWAN
TW

00-04-7A (hex) AXXESSIT ASA
00047A (base 16) AXXESSIT ASA
AXXESSIT ASA HALDEN

NO

00-04-4E (hex) Cisco Systems, Inc
00044E
(base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-04-52 (hex) RocketLogix, Inc.
000452 (base 16) RocketLogix, Inc.
6504 International Parkway
Plano TX 75093
US

00-04-42 (hex) NACT
000442 (base 16) NACT
191 W. 5200 N.
Provo UT 84604
US

00-04-45 (hex) LMS Skalar Instruments GmbH
000445 (base 16) LMS Skalar Instruments GmbH
Willi-Eichler-Str 11

DE

00-03-FD (hex) Cisco Systems, Inc
0003FD (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-03-F9 (hex) Pleiades Communications, Inc.
0003F9 (base 16) Pleiades Communications, Inc.
2830 Market Loop #104
South Lake TX 76092
US

00-03-FE (hex) Cisco Systems, Inc
0003FE (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-04-99 (hex) Chino Corporation
000499 (base 16) Chino Corporation
1 Mori, Fujioka City,

Zip: 375-8505
JP

00-04-8E (hex) Ohm Tech Labs, Inc.
00048E (base 16) Ohm Tech Labs, Inc.
141 Lanza Ave., B-12
Garfield NJ 07026
US

00-04-8D (hex) Teo Technologies, Inc
00048D (base 16) Teo Technologies, Inc
11609 49th Place West
Mukilteo WA 98275
US

00-04-90 (hex) Optical Access
000490 (base 16) Optical Access
P.O. Box 114

IL

00-04-27 (hex) Cisco Systems, Inc
000427 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-04-20 (hex) Slim Devices, Inc.
000420 (base 16) Slim Devices, Inc.
12 South First St.
San Jose CA 95113
US

00-04-11 (hex) Inkra Networks, Inc.
000411 (base 16) Inkra Networks, Inc.
40971 Encyclopedia Circle
Fremont CA 94538
US

00-04-3D (hex) INDEL AG
00043D (base 16) INDEL AG
Tufiwis 26

CH

00-04-3B (hex) Lava Computer Mfg., Inc.
00043B (base 16) Lava Computer Mfg.,
Inc.
2 Vulcan St.
CANADA M9W-1L2
CA

00-04-31 (hex) GlobalStreams, Inc.
000431 (base 16) GlobalStreams, Inc.
2882 Prospect Park Drive
Rancho Cordova CA 95670
US

00-04-10 (hex) Spinnaker Networks, Inc.
000410 (base 16) Spinnaker Networks, Inc.
107 Gamma Drive
Pittsburgh PA 15238
US

00-04-12 (hex) WaveSmith Networks, Inc.
000412 (base 16) WaveSmith Networks, Inc.
40 Nagog Park

Acton MA 01720-3425
US

00-04-5E (hex) PolyTrax Information Technology AG
00045E (base 16) PolyTrax Information Technology AG
Martin-Kollar - Str. 5

DE

00-03-7B (hex) IDEC IZUMI Corporation
00037B (base 16) IDEC IZUMI Corporation
7-31, Nishimiyahara

JP

00-03-67 (hex) Jasmine Networks, Inc.
000367 (base 16) Jasmine Networks, Inc.
1940 Zanker Road
San Jose CA 95112
US

00-03-6A (hex) Mainnet, Ltd.
00036A (base 16) Mainnet, Ltd.
P.O. Box 2324

IL

00-03-6B (hex) Cisco Systems, Inc
00036B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-03-6C (hex) Cisco Systems, Inc
00036C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-03-C1 (hex) Packet Dynamics Ltd
0003C1 (base 16) Packet Dynamics Ltd
2 Buckstane Park
UK EH10 GPA
GB

00-03-C4 (hex) Tomra Systems ASA
0003C4 (base 16) Tomra Systems ASA

Drengsrudhagen 2

NO

00-03-C5 (hex) Mobotix AG
0003C5 (base 16) Mobotix AG
Wingertsweilerhof 6

DE

00-03-BF (hex) Centerpoint Broadband Technologies, Inc.
0003BF (base 16) Centerpoint Broadband Technologies, Inc.
1741 Technology Drive,
San Jose CA 95110-1310
US

00-03-B9 (hex) Hualong Telecom Co., Ltd.
0003B9 (base 16) Hualong Telecom Co., Ltd.
9 Guanghua St.
P.R.
CN

00-03-80 (hex) SSH Communications Security Corp.
000380
(base 16) SSH Communications Security Corp.
Fredrikinkatu 42

FI

00-03-82 (hex) A-One Co., Ltd.
000382 (base 16) A-One Co., Ltd.
6-9-20, Shimoichiba-cho,

JP

00-03-7A (hex) Taiyo Yuden Co., Ltd.
00037A (base 16) Taiyo Yuden Co., Ltd.
8-1 Sakae-Cho

JP

00-03-75 (hex) NetMedia, Inc.
000375 (base 16) NetMedia, Inc.
10940 N. Stallard Place
Tuscon AZ 85737
US

00-03-99 (hex) Dongju Informations & Communications Co., Ltd.

000399 (base 16) Dongju Informations & Communications Co., Ltd.
#305, Eunsuk Bldg. Samsung-dong
Republic of KOREA
KR

00-03-91 (hex) Advanced Digital Broadcast, Ltd.
000391 (base 16) Advanced Digital Broadcast, Ltd.
8F, 145 Chung Shan N. Rd. Sec. 2,
TAIWAN TAIWAN R.O.C.
TW

00-03-8F (hex) Weinschel Corporation
00038F (base 16) Weinschel Corporation
5305 Spectrum Drive
Frederick MD 21703
US

00-03-84 (hex) AETA
000384
(base 16) AETA
Kepler 6
Le Plessis Robinson 92350
FR

00-03-87 (hex) Blaze Network Products
000387 (base 16) Blaze Network Products
5180 Hacienda Drive
Dublin CA 94568
US

00-03-81 (hex) Ingenico International
000381 (base 16) Ingenico International
1/9 Apollo Street

AU

00-03-BA (hex) Oracle Corporation
0003BA (base 16) Oracle Corporation
17 Network Circle
Menlo Park CA 95025
US

00-03-AF (hex) Paragea Communications
0003AF (base 16) Paragea Communications
207 Perry Parkway
Gaithersburg MD 20877
US

00-03-AC (hex) Fronius Schweissmaschinen
0003AC (base 16) Fronius Schweissmaschinen
Günter Fronius-Straße 1

AT

00-03-DE (hex) OTC Wireless
0003DE (base 16) OTC Wireless
602 Charlot Ave.
San Jose CA 95131
US

00-03-0B (hex) Hunter Technology, Inc.
00030B (base 16) Hunter Technology, Inc.
1408, Woolim e-biz Center,
Seoul
135-270
KR

00-03-C9 (hex) TECOM Co., Ltd.
0003C9 (base 16) TECOM Co., Ltd.
23, R&D Road 2
Hsin-Chu
TW

00-03-F5 (hex) Chip2Chip
0003F5 (base 16) Chip2Chip
2249 Zanker Rd.
San Jose CA 95131
US

00-03-30 (hex) Imagenics, Co., Ltd.
000330 (base 16) Imagenics, Co., Ltd.
1-31-5 Kokuryo-Cho
182-0022
JP

00-03-28 (hex) Mace Group, Inc.
000328 (base 16) Mace Group, Inc.
5101 Commerce Dr.
Baldwin Park CA 91706
US

00-03-2B (hex) GAI Datenfunksysteme GmbH
00032B (base 16) GAI Datenfunksysteme GmbH
Riedleparkstraße 28
Friedrichshafen 88045
DE

00-03-2C (hex) ABB Switzerland Ltd
00032C (base 16) ABB Switzerland Ltd
Dept. ATEP
Austrasse
CH

00-03-23 (hex) Cornet Technology, Inc.
000323 (base 16) Cornet Technology, Inc.
6800 Versar Center, Suite 216
Springfield VA 22151-4147
US

00-03-13 (hex) Access Media SPA
000313
(base 16) Access Media SPA
Via delle Industrie, 4/g
24035 LALLIO (BG)
IT

00-03-10 (hex) E-Globaledge Corporation
000310 (base 16) E-Globaledge Corporation
7F Nakameguro GT Tower
Meduro-ku, Tokyo 153-0051
JP

00-03-0A (hex) Argus Technologies
00030A (base 16) Argus Technologies
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114
TW

00-03-04 (hex) Pacific Broadband Communications
000304 (base 16) Pacific Broadband Communications
3103 North First St.
San Jose CA 95134
US

00-03-01 (hex) EXFO
000301 (base 16) EXFO
400 Godin Avenue
Quebec G1M 2K2
CA

00-02-FD (hex) Cisco Systems, Inc
0002FD (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568

US

00-03-40 (hex) Floware Wireless Systems, Ltd.
000340 (base 16) Floware Wireless Systems, Ltd.
28 Hacharoshet Steet
60250
IL

00-01-EC (hex) Ericsson Group
0001EC (base 16) Ericsson Group
Telefonaktiebolaget

SE

00-03-33 (hex) Digitel Co., Ltd.
000333 (base 16) Digitel Co., Ltd.
835-6, Yoksam-dong

KR

00-03-38 (hex) Oak Technology
000338 (base 16) Oak Technology
139 Kifer Court
Sunnyvale CA 94086-5160
US

00-03-39 (hex) Eurologic Systems, Ltd.
000339 (base 16) Eurologic Systems, Ltd.
Clonshaugh Industrial Estate
Clonshaugh Dublin 17
IE

00-03-31 (hex) Cisco Systems, Inc
000331 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-03-00 (hex) Barracuda Networks, Inc.
000300 (base 16) Barracuda Networks, Inc.
3175 S. Winchester Blvd
Campbell CA 95008
US

00-02-F9 (hex) MIMOS Berhad
0002F9 (base 16) MIMOS Berhad
Technology Park Malaysia

Kuala Lumpur 57000
MY

00-02-F3 (hex) Media Serve Co., Ltd.
0002F3 (base 16) Media Serve Co., Ltd.
Dongsung Bldg. #17-8, Youido-dong,
Seoul
KR

00-02-EA
(hex) Focus Enhancements
0002EA (base 16) Focus Enhancements
1370 Dell Ave.
Campbell CA 95008
US

00-02-E7 (hex) CAB GmbH & Co KG
0002E7 (base 16) CAB GmbH & Co KG
Wilhelm-Schickard-Str 14

DE

00-03-1E (hex) Optranet, Inc.
00031E (base 16) Optranet, Inc.
7041 Koll Center Pkwy
Pleasanton CA 94566
US

00-03-15 (hex) Cidco Incorporated
000315 (base 16) Cidco Incorporated
220 Cochrane Circle
Morgan Hill CA 95037
US

00-03-19 (hex) Infineon AG
000319 (base 16) Infineon AG
P.O. Box 800949

DE

00-03-4F (hex) Sur-Gard Security
00034F (base 16) Sur-Gard Security
401 Magnetic Drive
Ontario M3J 3H9
CA

00-03-4A (hex) RIAS Corporation
00034A (base 16) RIAS Corporation

46600 Fremont Blvd.
Fremont CA 94538
US

00-02-DF (hex) Net Com Systems, Inc.
0002DF (base 16) Net Com Systems, Inc.
15-3, Yoido-Dong,
Seoul
KR

00-02-DB
(hex) NETSEC
0002DB (base 16) NETSEC
13505 Dulles Technology Dr., Ste. 1
Herdon VA 20171
US

00-03-5A (hex) Photron Limited
00035A (base 16) Photron Limited
1-1-8, Fujimi,
Chiyoda-ku 102-0071
JP

00-03-53 (hex) Mitac, Inc.
000353 (base 16) Mitac, Inc.
No. 2, Chung-Hsiao Street
Chitu Keelung,
TW

00-02-CF (hex) ZyGate Communications, Inc.
0002CF (base 16) ZyGate Communications, Inc.
2F, No.48, Lung-Chin Road

TW

00-02-D1 (hex) Vivotek, Inc.
0002D1 (base 16) Vivotek, Inc.
5F-1, 168-1, Lien-Chen Rd,

TW

00-02-B6 (hex) Acrosser Technology Co., Ltd.
0002B6 (base 16) Acrosser Technology Co., Ltd.
No. 116-2 Guang-Fu Rd.
Taipei Taipei R.O.C.
TW

00-02-B1 (hex) Anritsu, Ltd.

0002B1 (base 16) Anritsu, Ltd.
Rutherford Close
UNITED KINGDOM
GB

00-02-AD (hex) HOYA Corporation
0002AD (base 16) HOYA Corporation
2-7-5
Naka-Ochiai, Shinjuku-ku,
Tokyo 161-8525
JP

00-02-AE (hex) Scannex Electronics Ltd.
0002AE (base 16) Scannex Electronics Ltd.
Unit 8 English Business Park
Hove BN3 7ET
GB

00-02-A2 (hex) Hilscher GmbH
0002A2 (base 16) Hilscher GmbH
Rheinstraße 15

DE

00-02-C2 (hex) Net Vision Telecom
0002C2 (base 16) Net Vision Telecom
#206 Software Support Center
305-343 Rep. of Korea
KR

00-02-BD (hex) Bionet Co., Ltd.
0002BD (base 16) Bionet Co., Ltd.
3F, Medison Venture Tower,
KOREA
KR

00-02-BE (hex) Totsu Engineering, Inc.
0002BE (base 16) Totsu Engineering, Inc.
5-16-20 Roppongi Minato-ku
Tokyo 106-8551
JP

00-02-B9 (hex) Cisco Systems, Inc
0002B9 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-02-BA (hex) Cisco Systems, Inc
0002BA (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-02-54
(hex) WorldGate
000254 (base 16) WorldGate
3190 Tremont Avenue
Trevose PA 19053
US

00-02-4B (hex) Cisco Systems, Inc
00024B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-02-4D (hex) Mannesman Dematic Colby Pty. Ltd.
00024D (base 16) Mannesman Dematic Colby Pty. Ltd.
24 Narabang Way

AU

00-02-50 (hex) Geyser Networks, Inc.
000250 (base 16) Geyser Networks, Inc.
535 Del Rey Avenue
Sunnyvale CA 94086
US

00-02-5A (hex) Catena Networks
00025A (base 16) Catena Networks
307 Legget Drive
Canada K2K 3C8
CA

00-02-6E (hex) NeGeN Access, Inc.
00026E (base 16) NeGeN Access, Inc.
33 Boston Post Rd. West
Marlborough MA 01752
US

00-02-3B (hex) Ericsson
00023B (base 16) Ericsson
250 Holger Way
SAN JOSE CA 95134
US

00-02-39 (hex) Visicom
000239 (base 16) Visicom
10052 Mesa Ridge Ct.
San
Diego CA 92121
US

00-02-33 (hex) Mantra Communications, Inc.
000233 (base 16) Mantra Communications, Inc.
12850 Middlebrook Road
Germantown MD 20874
US

00-02-48 (hex) Pilz GmbH & Co.
000248 (base 16) Pilz GmbH & Co.
Felix-Wankel-Straße 2

DE

00-02-4C (hex) SiByte, Inc.
00024C (base 16) SiByte, Inc.
2805 Bowers Avenue
Santa Clara CA 95051-0917
US

00-02-40 (hex) Seedek Co., Ltd.
000240 (base 16) Seedek Co., Ltd.
#709, 1638-32, Sammo
KOREA
KR

00-02-70 (hex) Crewave Co., Ltd.
000270 (base 16) Crewave Co., Ltd.
F7, Pureun Bldg., 28-1
Seoul KOREA 137-030
KR

00-02-9A (hex) Storage Apps
00029A (base 16) Storage Apps
3 Princess Road
Lawrenceville NJ 08648
US

00-02-8F (hex) Globetek, Inc.
00028F (base 16) Globetek, Inc.
1607 Akron Peninsula Rd.
Akron OH 44313-5190

US

00-02-87 (hex) Adapcom
000287 (base 16) Adapcom
172-A
Component Drive
San Jose CA 95131
US

00-02-81 (hex) Madge Ltd.
000281 (base 16) Madge Ltd.
Madge House
Maindenhead Berkshire SL6 2HP
GB

00-01-8A (hex) ROI COMPUTER AG
00018A (base 16) ROI COMPUTER AG
Werner-von-Siemens-Str. 1

DE

00-01-92 (hex) Texas Digital Systems
000192 (base 16) Texas Digital Systems
400 Technology Parkway
College Station TX 77845
US

00-01-82 (hex) DICA TECHNOLOGIES AG
000182 (base 16) DICA TECHNOLOGIES AG
Rotherstr, 19

DE

00-01-89 (hex) Refraction Technology, Inc.
000189 (base 16) Refraction Technology, Inc.
2626 Lombardy Lane - Ste. #105
Dallas TX 75220
US

00-01-93 (hex) Hanbyul Telecom Co., Ltd.
000193 (base 16) Hanbyul Telecom Co., Ltd.
5th Fl. Oksan Bldg.
KOREA
KR

00-01-D9 (hex) Sigma, Inc.
0001D9 (base 16) Sigma, Inc.
32-3 Seijyo 9 Chome

JP

00-01-C5 (hex) Simpler Networks
0001C5
(base 16) Simpler Networks
555 Dr Frederick Philips
H4M 2X4
CA

00-01-C9 (hex) Cisco Systems, Inc
0001C9 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-01-C4 (hex) NeoWave, Inc.
0001C4 (base 16) NeoWave, Inc.
10th KRIHS Bldg. 1591-6
SOUTH KOREA
KR

00-02-00 (hex) Net & Sys Co., Ltd.
000200 (base 16) Net & Sys Co., Ltd.
Kuro Hitech Industrial Complex 304,
KOREA
KR

00-01-E4 (hex) Sitera, Inc.
0001E4 (base 16) Sitera, Inc.
1820 Lefthand Circle
Longmont CO 80501
US

00-01-F3 (hex) QPS, Inc.
0001F3 (base 16) QPS, Inc.
8015 E. Crystal Drive
Anaheim CA 92807
US

00-01-E3 (hex) Siemens AG
0001E3 (base 16) Siemens AG
Schlavenhorst 88

DE

00-01-EB (hex) C-COM Corporation
0001EB (base 16) C-COM Corporation

3F, No. 48, Park Ave. II SBIP
Hsinchu Taiwan Hsinchu Taiwan R.O.C.
TW

00-01-F2
(hex) Mark of the Unicorn, Inc.
0001F2 (base 16) Mark of the Unicorn, Inc.
1280 Massachusetts Ave.
Cambridge MA 02138
US

00-01-D8 (hex) Teltronics, Inc.
0001D8 (base 16) Teltronics, Inc.
4125 Keller Springs Road
Addison TX 25001
US

00-02-05 (hex) Hitachi Denshi, Ltd.
000205 (base 16) Hitachi Denshi, Ltd.
32 Miyaki-cho Kodaira-shi
JAPAN 187-8511
JP

00-01-F7 (hex) Image Display Systems, Inc.
0001F7 (base 16) Image Display Systems, Inc.
46560 Fremont Blvd.
Fremont CA 94538
US

00-01-AB (hex) Main Street Networks
0001AB (base 16) Main Street Networks
4030 Moorpark Ave.
San Jose CA 95117-1849
US

00-01-AF (hex) Artesyn Embedded Technologies
0001AF (base 16) Artesyn Embedded Technologies
2900 S. Diablo Way
Tempe AZ 85282
US

00-02-2A (hex) Asound Electronic
00022A (base 16) Asound Electronic
Xianxi Industries Zone Changan Town

CN

00-02-1B

(hex) Kollmorgen-Servotronix
00021B (base 16) Kollmorgen-Servotronix
POB 3919, Petach Tikya
49130
IL

00-02-1E (hex) SIMTEL S.R.L.
00021E (base 16) SIMTEL S.R.L.
Via Bonifacio Lupi, 25

IT

00-02-21 (hex) DSP Application, Ltd.
000221 (base 16) DSP Application, Ltd.
12F-12, No. 79, Sec. 1 Hsin Tai Wu Rd.
TAIWAN
TW

00-02-15 (hex) Cotas Computer Technology A/B
000215 (base 16) Cotas Computer Technology A/B
Paludan-Mullers Vej 82

DK

00-01-C1 (hex) Vitesse Semiconductor Corporation
0001C1 (base 16) Vitesse Semiconductor Corporation
Hoerkaer 18

DK

00-01-B6 (hex) SAEJIN T&M Co., Ltd.
0001B6 (base 16) SAEJIN T&M Co., Ltd.
2nd Fl., Saejin Bldg., 689
KOREA
KR

00-01-45 (hex) WINSYSTEMS, INC.
000145 (base 16) WINSYSTEMS, INC.
715 Stadium Drive
Arlington TX 76011
US

00-01-37 (hex) IT Farm Corporation
000137
(base 16) IT Farm Corporation
Asashiseimei Fuchu Bldg. 11F
183-0055
JP

00-01-33 (hex) KYOWA Electronic Instruments C
000133 (base 16) KYOWA Electronic Instruments C
3-5-1, Cyofugaoka
Cyofu Tokyo
JP

00-01-3C (hex) TIW SYSTEMS
00013C (base 16) TIW SYSTEMS
2211 Lawson Lane
Santa Clara CA 95054
US

00-01-4C (hex) Berkeley Process Control
00014C (base 16) Berkeley Process Control
4124 Lakeside Dr
Richmond CA 94806
US

00-30-F5 (hex) Wild Lab. Ltd.
0030F5 (base 16) Wild Lab. Ltd.
1-33-17-604 Harayama
Urawa City Saitama prif. 336-0931
JP

00-01-A3 (hex) GENESYS LOGIC, INC.
0001A3 (base 16) GENESYS LOGIC, INC.
10F, No. 11, Ln.3.,

TW

00-01-8C (hex) Mega Vision
00018C (base 16) Mega Vision
5765 Thornwood Drive
Goleta CA 93117
US

00-01-8F (hex) Kenetec, Inc.
00018F (base 16) Kenetec, Inc.
115 Hurley Road
Oxford CT 06748
US

00-01-5D
(hex) Oracle Corporation
00015D (base 16) Oracle Corporation
500 Oracle Parkway
Redwood Shores CA 94065

US

00-01-73 (hex) AMCC
000173 (base 16) AMCC
6290 Sequence Drive
San Diego CA 92121
US

00-01-6C (hex) FOXCONN
00016C (base 16) FOXCONN
105 S Puente St.
Brea CA 92821
US

00-01-75 (hex) Radiant Communications Corp.
000175 (base 16) Radiant Communications Corp.
5001 Hadley Road
South Plainfield NJ 07080
US

00-01-5C (hex) CADANT INC.
00015C (base 16) CADANT INC.
4343 Commerce Court - Ste. #207
Lisle IL 60532
US

00-01-3D (hex) RiscStation Ltd.
00013D (base 16) RiscStation Ltd.
168 Elliott Street
UNITED KINGDOM
GB

00-01-43 (hex) Cisco Systems, Inc
000143 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-01-4B (hex) Ennovate Networks, Inc.
00014B (base 16) Ennovate Networks, Inc.
60
Codman Hill Road
Boxborough MA 01719
US

00-01-20 (hex) OSCILLOQUARTZ S.A.
000120 (base 16) OSCILLOQUARTZ S.A.
Rue Des Brevards 16

2002 Neuchatel
CH

00-01-27 (hex) OPEN Networks Pty Ltd
000127 (base 16) OPEN Networks Pty Ltd
Level 5, 342 Flinders Street
Melbourne VIC 3000
AU

00-01-04 (hex) DVICO Co., Ltd.
000104 (base 16) DVICO Co., Ltd.
Kookmin Card B/D 6F 267-2
Sungnam-si Kyungki-do 463-050
KR

00-01-7B (hex) Heidelberger Druckmaschinen AG
00017B (base 16) Heidelberger Druckmaschinen AG
Kurfürsten-Anlage 52-60

DE

00-01-A5 (hex) Nextcomm, Inc.
0001A5 (base 16) Nextcomm, Inc.
12413 Willows Road NE - Ste. #210
Kirkland WA 98034
US

00-01-90 (hex) SMK-M
000190 (base 16) SMK-M
1055 Tierra Del Rey
Chula Vista CA 91910
US

00-02-9C (hex) 3COM
00029C (base 16) 3COM
405 SPRING HILL ROAD
SHARON NH 03458
US

00-B0-19
(hex) UTC CCS
00B019 (base 16) UTC CCS
791 Commerce Blvd
Boca Raton FL 33497
US

00-B0-C7 (hex) Tellabs Operations, Inc.
00B0C7 (base 16) Tellabs Operations, Inc.

One Tellabs Center
Naperville IL 60563
US

00-01-0E (hex) Bri-Link Technologies Co., Ltd
00010E (base 16) Bri-Link Technologies Co., Ltd
2F, No. 63, Chow-Tze Street
Taipei 114
TW

00-01-06 (hex) Tews Datentechnik GmbH
000106 (base 16) Tews Datentechnik GmbH
Am Bahnhof 7
25469 Halstenbek
DE

00-01-09 (hex) Nagano Japan Radio Co., Ltd.
000109 (base 16) Nagano Japan Radio Co., Ltd.
Shimohigano 1163, Inasato-machi
Nagano 381-2288
JP

00-01-69 (hex) Celestix Networks Pte Ltd.
000169 (base 16) Celestix Networks Pte Ltd.
18 Tannery Lane #05-03
SINGAPORE 347780
SG

00-01-6B (hex) LightChip, Inc.
00016B (base 16) LightChip, Inc.
5 Industrial Way
Salem NH 03079
US

00-B0-86
(hex) LocSoft Limited
00B086 (base 16) LocSoft Limited
7 Bright Street
Clitheroe Lancashire BB7 1NW
GB

00-30-A2 (hex) Lightner Engineering
0030A2 (base 16) Lightner Engineering
8551 La Jolla Shores Dr
La Jolla CA 92037
US

00-30-42 (hex) DeTeWe-Deutsche Telephonwerke

003042 (base 16) DeTeWe-Deutsche Telephonwerke
Zeughofstrasse 1
D-10997 Berlin
DE

00-30-37 (hex) Packard Bell Nec Services
003037 (base 16) Packard Bell Nec Services
299 avenue Patton, BP 645
49006 Angers Cedex 01
FR

00-30-57 (hex) QTelNet, Inc.
003057 (base 16) QTelNet, Inc.
400 - 3115 12th Street NE
Calgary Alberta T2E 7J2
CA

00-30-FC (hex) Terawave Communications, Inc.
0030FC (base 16) Terawave Communications, Inc.
30695 Huntwood Avenue
Hayward CA 94544
US

00-B0-2A (hex) ORSYS GmbH
00B02A (base 16) ORSYS GmbH
Am Stadtgraben 25
D-88677 Markdorf
DE

00-B0-69 (hex) Honewell
Oy
00B069 (base 16) Honewell Oy
P.O. Box 168, FIN-78201

FI

00-B0-C2 (hex) Cisco Systems, Inc
00B0C2 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-B0-3B (hex) HiQ Networks
00B03B (base 16) HiQ Networks
2475 Augustine Drive
Santa Clara CA 95054
US

00-30-46 (hex) Controlled Electronic Manageme
003046 (base 16) Controlled Electronic Manageme
Unit 4 Ravenhill Business Park
Belfast
IE

00-30-75 (hex) ADTECH
003075 (base 16) ADTECH
RUE DU VAL ST LAMBERT 191 / i
SERAING 4100
BE

00-30-98 (hex) Global Converging Technologies
003098 (base 16) Global Converging Technologies
1800 Preston Park Blvd.
Plano TX 75093
US

00-30-0D (hex) MMC Technology, Inc.
00300D (base 16) MMC Technology, Inc.
#1502, Seoul Venture Town, Aju Bldg
Seoul 135-080
KR

00-30-C2 (hex) COMONE
0030C2 (base 16) COMONE
Parc
De Marticot
33610 Cestas
FR

00-30-F3 (hex) At Work Computers
0030F3 (base 16) At Work Computers
P.O. Box 947
Corvallis OR 97339
US

00-30-CC (hex) Tenor Networks, Inc.
0030CC (base 16) Tenor Networks, Inc.
100 Nagog Park
Acton MA 01720-3409
US

00-30-B0 (hex) Convergenet Technologies
0030B0 (base 16) Convergenet Technologies
2222 Trade Zone Boulevard
San Jose CA 95131
US

00-30-86 (hex) Transistor Devices, Inc.
003086 (base 16) Transistor Devices, Inc.
36A Newburgh Road
Hackettstown NJ 07840
US

00-30-EB (hex) TURBONET COMMUNICATIONS, INC.
0030EB (base 16) TURBONET COMMUNICATIONS, INC.
19F-1, NO. 171, SUNG-TEH ROAD
TAIPEI
TW

00-30-A1 (hex) WEBGATE Inc.
0030A1 (base 16) WEBGATE Inc.
4F, Pika Bldg., 894-20, Hoyke 2-dong
Anyang-Si Kyunggi-Do
KR

00-30-6A (hex) PENTA MEDIA CO., LTD.
00306A (base 16) PENTA MEDIA CO., LTD.
E-504
Bundang Technopark,151
Seongnam Gyeonggi-do
KR

00-30-6F (hex) SEYEON TECH. CO., LTD.
00306F (base 16) SEYEON TECH. CO., LTD.
NAMCHEON BLDG. 6F,
KOREA 135-280
KR

00-30-3D (hex) IVA CORPORATION
00303D (base 16) IVA CORPORATION
142 NORTH RD STE R
SUDBURY MA 01776
US

00-30-53 (hex) Basler AG
003053 (base 16) Basler AG
An Der Strusbek 60-62
22926 Ahrensburg
DE

00-30-D2 (hex) WIN TECHNOLOGIES, CO., LTD.
0030D2 (base 16) WIN TECHNOLOGIES, CO., LTD.
4F-6, No. 81, Sec. 1
Taipei

TW

00-30-97 (hex) AB Regin
003097 (base 16) AB Regin
Box 366
SE-26123 Landskrona
SE

00-30-DC (hex) RIGHTECH CORPORATION
0030DC (base 16) RIGHTECH CORPORATION
4F, NO. 351, CHUNG-SHUN RD.
TAIWAN TAIWAN R.O.C.
TW

00-30-25 (hex) CHECKOUT COMPUTER SYSTEMS, LTD
003025 (base 16) CHECKOUT COMPUTER SYSTEMS, LTD
TOWNSEND FARM ROAD
UNITED KINGDOM
GB

00-30-C6
(hex) CONTROL SOLUTIONS, INC.
0030C6 (base 16) CONTROL SOLUTIONS, INC.
201 85TH AVENUE NW
MINNEAPOLIS MN 55433
US

00-30-E3 (hex) SEDONA NETWORKS CORP.
0030E3 (base 16) SEDONA NETWORKS CORP.
10A HEARST WAY
CANADA K2L 2P4
CA

00-30-BF (hex) MULTIDATA GMBH
0030BF (base 16) MULTIDATA GMBH
Dieburger Str. 96a

DE

00-30-12 (hex) DIGITAL ENGINEERING LTD.
003012 (base 16) DIGITAL ENGINEERING LTD.
2 TRENCH ROAD, MALLUSK
NORTHERN
IE

00-D0-0F (hex) SPEECH DESIGN GMBH
00D00F (base 16) SPEECH DESIGN GMBH
INDUSTRIESTR. 1

DE

00-30-58 (hex) API MOTION
003058 (base 16) API MOTION
45 HAZELWOOD DRIVE
AMHERST NY 14228
US

00-30-A6 (hex) VIANET TECHNOLOGIES, LTD.
0030A6 (base 16) VIANET TECHNOLOGIES, LTD.
8 HACHARASH STREET

IL

00-30-F4 (hex) STARDOT TECHNOLOGIES
0030F4 (base 16) STARDOT TECHNOLOGIES
6820-H ORANGE THORPE
AVE.
BUENA PARK CA 90620
US

00-30-19 (hex) Cisco Systems, Inc
003019 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-30-76 (hex) Akamba Corporation
003076 (base 16) Akamba Corporation
15595 Los Gatos Blvd.
Los Gatos CA 95032
US

00-30-EC (hex) BORGARDT
0030EC (base 16) BORGARDT
DIESELSTR. 15

DE

00-30-34 (hex) SET ENGINEERING
003034 (base 16) SET ENGINEERING
15750 VINEYARD BLVD. STE. #100
MORGAN HILL CA 95037
US

00-30-4A (hex) Fraunhofer IPMS
00304A (base 16) Fraunhofer IPMS

Maria-Reiche-Strasse 2
Dresden 01109
DE

00-30-8D (hex) Pinnacle Systems, Inc.
00308D (base 16) Pinnacle Systems, Inc.
Frankfurter Str. 3c
D-38122 Braunschweig
DE

00-30-F6 (hex) SECURELOGIX CORPORATION
0030F6 (base 16) SECURELOGIX CORPORATION
13750 SAN PEDRO
SAN ANTONIO TX 78232
US

00-30-D6 (hex) MSC VERTRIEBS GMBH
0030D6
(base 16) MSC VERTRIEBS GMBH
INDUSTRIESTR. 16

DE

00-30-41 (hex) SAEJIN T & M CO., LTD.
003041 (base 16) SAEJIN T & M CO., LTD.
2ND FL., SAEJIN BLDG. 689
135-230 KOREA
KR

00-30-8C (hex) Quantum Corporation
00308C (base 16) Quantum Corporation
10125 Federal Drive
Colorado Springs CO 80908
US

00-30-3C (hex) ONNTO CORP.
00303C (base 16) ONNTO CORP.
12F-2, NO. 161
TAIWAN TAIWAN R.O.C.
TW

00-30-24 (hex) Cisco Systems, Inc
003024 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-D0-CB (hex) DASAN CO., LTD.

00D0CB (base 16) DASAN CO., LTD.
DASAN Tower 7F, 49 Daewangpangyo-ro644beon-gil
Seonggnam-Si Gyeoenggi-do 463-4000
KR

00-D0-19 (hex) DAINIPPON SCREEN CORPORATE
00D019 (base 16) DAINIPPON SCREEN CORPORATE
REPRESENTATIVES OF AMERICA,INC
IRVINE CA 92614
US

00-30-D8 (hex) SITEK
0030D8 (base 16) SITEK
VIA
MONTE FIORINO 9

IT

00-30-16 (hex) ISHIDA CO., LTD.
003016 (base 16) ISHIDA CO., LTD.
959-1 SHIMOMAGARI

JP

00-30-5F (hex) Hasselblad
00305F (base 16) Hasselblad
Hejrevej 30
Copenhagen NV DK-2400
DK

00-D0-13 (hex) PRIMEX AEROSPACE COMPANY
00D013 (base 16) PRIMEX AEROSPACE COMPANY
P.O. BOX 97009
REDMOND WA 98073-9709
US

00-D0-A3 (hex) VOCAL DATA, INC.
00D0A3 (base 16) VOCAL DATA, INC.
1701 N GREENVILLE #304
RICHARDSON TX 75081
US

00-D0-BF (hex) PIVOTAL TECHNOLOGIES
00D0BF (base 16) PIVOTAL TECHNOLOGIES
70 S. LAKE AVENUE - STE. #900
PASADENA CA 91101
US

00-D0-2F (hex) VLSI TECHNOLOGY INC.
00D02F (base 16) VLSI TECHNOLOGY INC.
8375 S. RIVER PARKWAY
TEMPE AZ 85284
US

00-D0-16 (hex) SCM MICROSYSTEMS, INC.
00D016 (base 16) SCM MICROSYSTEMS, INC.
160 KNOWLES DRIVE
LOS GATOS CA 95032
US

00-D0-43 (hex) ZONAL
RETAIL DATA SYSTEMS
00D043 (base 16) ZONAL RETAIL DATA SYSTEMS
24 FORTH STREET
SCOTLAND
GB

00-D0-C1 (hex) HARMONIC DATA SYSTEMS, LTD.
00D0C1 (base 16) HARMONIC DATA SYSTEMS, LTD.
10 BEIT SHAMAI STREET
ISRAEL 67018
IL

00-D0-35 (hex) BEHAVIOR TECH. COMPUTER CORP.
00D035 (base 16) BEHAVIOR TECH. COMPUTER CORP.
20F-B, No.98, Sec. 1,
Sijhih City Taipei County 22102
TW

00-D0-DB (hex) MCQUAY INTERNATIONAL
00D0DB (base 16) MCQUAY INTERNATIONAL
13600 INDUSTRIAL PARK BLVD.
MINNEAPOLIS MN 55441
US

00-D0-EA (hex) NEXTONE COMMUNICATIONS, INC.
00D0EA (base 16) NEXTONE COMMUNICATIONS, INC.
9700 GREAT SENECA HGHWY
ROCKVILLE MD 20850
US

00-D0-20 (hex) AIM SYSTEM, INC.
00D020 (base 16) AIM SYSTEM, INC.
4TH FLOOR CHUNGWOO B/D 219-1
KOREA
KR

00-D0-64 (hex) MULTITEL
00D064 (base 16) MULTITEL
2905 RUE DE CELLES
CANADA CANADA G2C-1W7
CA

00-D0-5E
(hex) STRATABEAM TECHNOLOGY, INC.
00D05E (base 16) STRATABEAM TECHNOLOGY, INC.
1943 LANDINGS DRIVE
MOUNTAIN VIEW CA 94043
US

00-D0-AA (hex) CHASE COMMUNICATIONS
00D0AA (base 16) CHASE COMMUNICATIONS
ST. LEONARDS ROAD
UNITED KINGDOM
GB

00-D0-FA (hex) Thales e-Security Ltd.
00D0FA (base 16) Thales e-Security Ltd.
Meadow View House, Crendon Industrial Estate
Aylesbury Buckinghamshire HP18 9EQ
GB

00-D0-EB (hex) LIGHTERA NETWORKS, INC.
00D0EB (base 16) LIGHTERA NETWORKS, INC.
10201 BUBB ROAD
CUPERTINO CA 95014
US

00-D0-06 (hex) Cisco Systems, Inc
00D006 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-D0-2A (hex) Voxent Systems Ltd.
00D02A (base 16) Voxent Systems Ltd.
Unit 2, Rowan House
Chippenham Wiltshire SN14 0SQ
GB

00-D0-8F (hex) ARDENT TECHNOLOGIES, INC.
00D08F (base 16) ARDENT TECHNOLOGIES, INC.
250 N. WOLFE

ROAD
SUNNYVALE CA 94086
US

00-D0-68 (hex) IWILL CORPORATION
00D068 (base 16) IWILL CORPORATION
NO.10, WU-CHUAN 3 RD,
TAIWAN
TW

00-D0-70 (hex) LONG WELL ELECTRONICS CORP.
00D070 (base 16) LONG WELL ELECTRONICS CORP.
4F, NO. 59-1, TSAO DI WEI
TAIWAN 222 TAIWAN 222 R.O.C.
TW

00-D0-29 (hex) WAKEFERN FOOD CORPORATION
00D029 (base 16) WAKEFERN FOOD CORPORATION
230 RARITAN CENTER PARKWAY
EDISON NJ 08837
US

00-D0-B1 (hex) OMEGA ELECTRONICS SA
00D0B1 (base 16) OMEGA ELECTRONICS SA
ROUTE DE SOLEURE 68

CH

00-D0-C3 (hex) VIVID TECHNOLOGY PTE, LTD.
00D0C3 (base 16) VIVID TECHNOLOGY PTE, LTD.
1003 BUKIT MERAH CENTRAL

SG

00-D0-C8 (hex) Prevas A/S
00D0C8 (base 16) Prevas A/S
Lyskær 3EF
DK-2730 Herlev
DK

00-D0-5D (hex) INTELLIWORXX, INC.
00D05D (base 16) INTELLIWORXX, INC.
1819 MAIN STREET, STE #1101
SARASOTA FL 34236
US

00-D0-A1

(hex) OSKAR VIERLING GMBH + CO. KG
00D0A1 (base 16) OSKAR VIERLING GMBH + CO. KG
PRETZFELDER STR. 21

DE

00-D0-AC (hex) Commscope, Inc
00D0AC (base 16) Commscope, Inc
140 Vista Centre Drive
Forest VA 24551
US

00-D0-BC (hex) Cisco Systems, Inc
00D0BC (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-D0-7E (hex) KEYCORP LTD.
00D07E (base 16) KEYCORP LTD.
P.O. BOX 199

AU

00-50-65 (hex) TDK-Lambda Corporation
005065 (base 16) TDK-Lambda Corporation
36-1 Kasuminosato
Ami-Machi Inashiki-Gun Ibaraki, 300-0396
JP

00-50-B9 (hex) XITRON TECHNOLOGIES, INC.
0050B9 (base 16) XITRON TECHNOLOGIES, INC.
6295-D FERRIS SQUARE
SAN DIEGO CA 92121
US

00-50-6B (hex) SPX-ATEG
00506B (base 16) SPX-ATEG
802 S. MAIN STREET
WAYLAND MI 49348
US

00-50-4A (hex) ELTECO A.S.
00504A (base 16) ELTECO A.S.
ROSINSKA
CESTA P.O. BOX C-9

SK

00-50-C1 (hex) GEMFLEX NETWORKS, LTD.
0050C1 (base 16) GEMFLEX NETWORKS, LTD.
230-6651 FRASERWOOD PL.
CANADA V6W 1J3
CA

00-50-75 (hex) KESTREL SOLUTIONS
005075 (base 16) KESTREL SOLUTIONS
2370 CHARLESTON ROAD
MT. VIEW CA 94043
US

00-50-AC (hex) MAPLE COMPUTER CORPORATION
0050AC (base 16) MAPLE COMPUTER CORPORATION
2F, NO. 184, SEC. 2
Taipei
TJ

00-50-49 (hex) Arbor Networks Inc
005049 (base 16) Arbor Networks Inc
6 Omni Way
Chelmsford MA 01824
US

00-50-0D (hex) SATORI ELECTORIC CO., LTD.
00500D (base 16) SATORI ELECTORIC CO., LTD.
TIGUSADAI 38-8 MIDORI-KU
YOKOHAMA, KANAGAWA
JP

00-50-12 (hex) CBL - GMBH
005012 (base 16) CBL - GMBH
DARMSTAEDTER STR. 81
D-64839 MUENSTER
DE

00-50-F2 (hex) MICROSOFT CORP.
0050F2 (base 16) MICROSOFT CORP.
ONE MICROSOFT WAY
REDMOND WA 98052-6399
US

00-50-29
(hex) 1394 PRINTER WORKING GROUP
005029 (base 16) 1394 PRINTER WORKING GROUP
P.O. BOX 23158
SAN JOSE CA 95153

US

00-50-81 (hex) MURATA MACHINERY, LTD.
005081 (base 16) MURATA MACHINERY, LTD.
136, TAKEDA-MUKAISHIRO-CHO
FUSHIMI-KU, KYOTO 612-8686
JP

00-D0-C0 (hex) Cisco Systems, Inc
00D0C0 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-D0-76 (hex) Bank of America
00D076 (base 16) Bank of America
1100 Merrill Drive
Pennington NJ 08534
US

00-D0-51 (hex) O2 MICRO, INC.
00D051 (base 16) O2 MICRO, INC.
2901 TASMAN DRIVE, STE.#205
SANTA CLARA CA 95054
US

00-D0-BB (hex) Cisco Systems, Inc
00D0BB (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-D0-6E (hex) TRENDVIEW RECORDERS LTD.
00D06E (base 16) TRENDVIEW RECORDERS LTD.
4 AIRFIELD WAY
UNITED KINGDOM
GB

00-D0-5C (hex) KATHREIN TechnoTrend
GmbH
00D05C (base 16) KATHREIN TechnoTrend GmbH
Ing.- Anton-Kathrein Str. 2

DE

00-50-A4 (hex) IO TECH, INC.
0050A4 (base 16) IO TECH, INC.
25971 CANNON ROAD

CLEVELAND OH 44146
US

00-50-A3 (hex) TransMedia Communications, Inc.
0050A3 (base 16) TransMedia Communications, Inc.
20 GREAT OAKS BLVD., #210
SAN JOSE CA 95119
US

00-50-5C (hex) TUNDO CORPORATION
00505C (base 16) TUNDO CORPORATION
7 GIBOREI ISRAEL STREET

IL

00-50-B3 (hex) VOICEBOARD CORPORATION
0050B3 (base 16) VOICEBOARD CORPORATION
3151 WEST FIFTH STREET
OXNARD CA 93030
US

00-50-8C (hex) RSI SYSTEMS
00508C (base 16) RSI SYSTEMS
5555 W. 78TH STREET, Suite F
EDINA MN 55439
US

00-50-A1 (hex) CARLO GAVAZZI, INC.
0050A1 (base 16) CARLO GAVAZZI, INC.
222 PENNBRIGHT DR. - STE.#210
HOUSTON TX 77090
US

00-50-17 (hex) RSR S.R.L.
005017 (base 16) RSR S.R.L.
VIA
SINIGAGLIA, 38
22075
IT

00-50-ED (hex) ANDA NETWORKS
0050ED (base 16) ANDA NETWORKS
2921 COPPER ROAD
SANTA CLARA CA 95051
US

00-50-96 (hex) SALIX TECHNOLOGIES, INC.
005096 (base 16) SALIX TECHNOLOGIES, INC.

904 WIND RIVER LANE- STE. #101
GAITHERSBURG MD 20878
US

00-50-CF (hex) VANLINK COMMUNICATION TECHNOLOGY RESEARCH INSTITUTE
0050CF (base 16) VANLINK COMMUNICATION TECHNOLOGY RESEARCH INSTITUTE
210 YADI OFFICE BUILDING
BEIJING 100088
CN

00-50-24 (hex) NAVIC SYSTEMS, INC.
005024 (base 16) NAVIC SYSTEMS, INC.
74 CRESCENT STREET
NEEDHAM MA
US

00-90-BD (hex) OMNIA COMMUNICATIONS, INC.
0090BD (base 16) OMNIA COMMUNICATIONS, INC.
100 NICKERSON ROAD
MARLBOROUGH MA 01752
US

00-90-B4 (hex) WILLOWBROOK TECHNOLOGIES
0090B4 (base 16) WILLOWBROOK TECHNOLOGIES
7120 HAYVENHURST AVE.-STE.#401
VAN NUYS CA 91406
US

00-90-03 (hex) APLIO
009003
(base 16) APLIO
18 Avenue Du 8 Mai 1945

FR

00-90-31 (hex) MYSTICOM, LTD.
009031 (base 16) MYSTICOM, LTD.
P.O. 8364
NATANIA 42504
IL

00-90-9D (hex) NovaTech Process Solutions, LLC
00909D (base 16) NovaTech Process Solutions, LLC
11500 Cronridge Drive
Owings Mills MD 21117
US

00-90-DD (hex) MIHARU COMMUNICATIONS Inc

0090DD (base 16) MIHARU COMMUNICATIONS Inc

KANAGAWA
JP

00-90-28 (hex) NIPPON SIGNAL CO., LTD.
009028 (base 16) NIPPON SIGNAL CO., LTD.
11 HIRAIDE-KOGIO-DANCHI
UISUNOMIYA TOCHIGI 321-8651
JP

00-90-7D (hex) Lake Communications
00907D (base 16) Lake Communications
1 Westbrook, Milton Road

IE

00-50-E1 (hex) NS TECH ELECTRONICS SDN BHD
0050E1 (base 16) NS TECH ELECTRONICS SDN BHD
No. 37, Lorong 23, Geylang
Singapore 388371
SG

00-50-DE (hex) SIGNUM SYSTEMS CORP.
0050DE (base 16) SIGNUM SYSTEMS CORP.
1211
Flynn Rd,
Camarillo CA 93021
US

00-50-7B (hex) MERLOT COMMUNICATIONS
00507B (base 16) MERLOT COMMUNICATIONS
BERKSHIRE CORPORATE PARK
BETHEL CT 06801
US

00-50-CD (hex) DIGIANSWER A/S
0050CD (base 16) DIGIANSWER A/S
SKALHUSE 5

DK

00-50-2D (hex) ACCEL, INC.
00502D (base 16) ACCEL, INC.
1F, NO. 7, R&D 1ST ROAD
HSINCHU
TW

00-50-3A (hex) DATONG ELECTRONICS LTD.
00503A (base 16) DATONG ELECTRONICS LTD.
CLAYTON WOOD CLOSE
Leeds LS16 6QE
GB

00-50-87 (hex) TERASAKI ELECTRIC CO., LTD.
005087 (base 16) TERASAKI ELECTRIC CO., LTD.
7-2-10 HANNAN-CHO ABENO-KU
OSAKA, 545-0021
JP

00-90-26 (hex) ADVANCED SWITCHING COMMUNICATIONS, INC.
009026 (base 16) ADVANCED SWITCHING COMMUNICATIONS, INC.
8330 BOONE BOULEVARD--5TH FL.
VIENNA VA 22182
US

00-90-D3 (hex) GIESECKE & DEVRIENT GmbH
0090D3 (base 16) GIESECKE & DEVRIENT GmbH
PRINZREGENTENSTRASSE
159
D-81677 MUNCHEN
DE

00-90-67 (hex) WalkAbout Computers, Inc.
009067 (base 16) WalkAbout Computers, Inc.
2655 N. OCEAN DRIVE--STE. #510
SINGER ISLAND FL 33404
US

00-90-33 (hex) INNOVAPHONE AG
009033 (base 16) INNOVAPHONE AG
Boeblinger Str. 76
SINDELFINGEN D71065
DE

00-90-8D (hex) VICKERS ELECTRONICS SYSTEMS
00908D (base 16) VICKERS ELECTRONICS SYSTEMS
1151 W. MASON-MORROW RD.
LEBANON OH 45036
US

00-90-42 (hex) ECCS, Inc.
009042 (base 16) ECCS, Inc.
ONE SHEILA DRIVE
TINTON FALLS NJ 07724
US

00-90-51 (hex) ULTIMATE TECHNOLOGY CORP.
009051 (base 16) ULTIMATE TECHNOLOGY CORP.
100 RAWSON ROAD
VICTOR NY 14564
US

00-90-C9 (hex) DPAC Technologies
0090C9 (base 16) DPAC Technologies
7321 Lincoln Way
Garden Grove CA 92841
US

00-90-1D (hex) PEC (NZ) LTD.
00901D (base 16) PEC (NZ) LTD.
2 STATION ROAD
MARTON
NZ

00-90-97
(hex) Sycamore Networks
009097 (base 16) Sycamore Networks
220 Mill Rd
Chelmsford MA 01824
US

00-50-26 (hex) COSYSTEMS, INC.
005026 (base 16) COSYSTEMS, INC.
1263 OAKMEAD PARKWAY
SUNNYVALE CA 94086
US

00-90-2C (hex) DATA & CONTROL EQUIPMENT LTD.
00902C (base 16) DATA & CONTROL EQUIPMENT LTD.
COUNTY FARM, WENDOVER RD.
BUCKS. HP22 STA
GB

00-90-84 (hex) ATECH SYSTEM
009084 (base 16) ATECH SYSTEM
4F DAEBOONG BLDG. 1451-78
SEOUL 137-070
KR

00-90-6A (hex) TURNSTONE SYSTEMS, INC.
00906A (base 16) TURNSTONE SYSTEMS, INC.
274 Ferguson Drive
MOUNTAIN VIEW CA 94043

US

00-90-87 (hex) ITIS
009087 (base 16) ITIS
CENTRE ESPACE PERFORMANCE
35769 SAINT-GREGOIRE CEDEX
FR

00-90-4D (hex) SPEC S.A.
00904D (base 16) SPEC S.A.
CASP 172 3-B
08013 BARCELONA
ES

00-90-FD (hex) CopperCom, Inc.
0090FD (base 16) CopperCom, Inc.
3255-1
SCOTT BLVD.,--STE.#103
SANTA CLARA CA 95054
US

00-90-39 (hex) SHASTA NETWORKS
009039 (base 16) SHASTA NETWORKS
249 HUMBOLDT COURT
SUNNYVALE CA 94089-1300
US

00-90-45 (hex) Marconi Communications
009045 (base 16) Marconi Communications
1000 Fore Drive
Warrendale PA 15086-7502
US

00-90-36 (hex) ens, inc.
009036 (base 16) ens, inc.
P.O. BOX 19207
RALEIGH NC 27619
US

00-90-8B (hex) Tattile SRL
00908B (base 16) Tattile SRL
2600 Fernbrook Lane
Plymouth MN 55447
US

00-90-44 (hex) ASSURED DIGITAL, INC.
009044 (base 16) ASSURED DIGITAL, INC.
9-11 GOLDSMITH ST.

LITTLETON MA 01460
US

00-90-7C (hex) DIGITALCAST, INC.
00907C (base 16) DIGITALCAST, INC.
503, ILKWANG BLDG., 1656-2
SEOCHO-KU SEOUL
KR

00-90-8E (hex) Nortel Networks Broadband Access
00908E (base 16) Nortel Networks Broadband Access
39660 Eureka Drive
Newark CA 94560
US

00-90-09
(hex) I Controls, Inc.
009009 (base 16) I Controls, Inc.
2nd Fl, I'Park 302, 11 Jeongja-Dong,
Seongnam Gyeonggi-Do 463-859
KR

00-90-2A (hex) COMMUNICATION DEVICES, INC.
00902A (base 16) COMMUNICATION DEVICES, INC.
85 Fulton Street
Boonton NJ 07005-1912
US

00-90-72 (hex) SIMRAD AS
009072 (base 16) SIMRAD AS
P.O. BOX 111
3191 HORTEN
NO

00-90-0D (hex) Overland Storage Inc.
00900D (base 16) Overland Storage Inc.
9112 Spectrum Center Blvd
SAN DIEGO CA 92123
US

00-90-CF (hex) NORTEL
0090CF (base 16) NORTEL
250 SIDNEY STREET
Belleville Ontario K8N 5B7
CA

00-90-2F (hex) NETCORE SYSTEMS, INC.
00902F (base 16) NETCORE SYSTEMS, INC.

187 BALLARDVALE STREET
WILMINGTON MA 01887
US

00-90-98 (hex) SBC DESIGNS, INC.
009098 (base 16) SBC DESIGNS, INC.
3077-H LEEMAN FERRY ROAD
HUNTSVILLE AL 35801
US

00-90-02 (hex) ALLGON
AB
009002 (base 16) ALLGON AB
GARDATORGET 1
412 50 GOTEBORG
SE

00-90-FC (hex) NETWORK COMPUTING DEVICES
0090FC (base 16) NETWORK COMPUTING DEVICES
301 RAVENDALE DRIVE
MOUNTAIN VIEW CA 94043
US

00-90-14 (hex) ROTORK INSTRUMENTS, LTD.
009014 (base 16) ROTORK INSTRUMENTS, LTD.
CHAUL END LANE
LU4 8EZ England
GB

00-90-25 (hex) BAE Systems Australia (Electronic Systems) Pty Ltd
009025 (base 16) BAE Systems Australia (Electronic Systems) Pty Ltd
2 Second Ave
Mawson Lakes South Australia 5095
AU

00-90-4C (hex) Epigram, Inc.
00904C (base 16) Epigram, Inc.
870 West Maude Ave.
Sunnyvale CA 94086
US

00-90-91 (hex) DigitalScape, Inc.
009091 (base 16) DigitalScape, Inc.
6 MORGAN - STE.#100
IRVINE CA 92618
US

00-90-7E (hex) VETRONIX CORP.

00907E (base 16) VETRONIX CORP.
2030 ALAMEDE PADRE SERRA
SANTA BARBARA CA 93103
US

00-90-50 (hex) Teleste
Corporation
009050 (base 16) Teleste Corporation
Telestenkatu 1
LITTOINEN FI-20660
FI

00-90-D2 (hex) Artel Video Systems
0090D2 (base 16) Artel Video Systems
5B Lyberty Way
Westford MA 01886
US

00-01-FE (hex) DIGITAL EQUIPMENT CORPORATION
0001FE (base 16) DIGITAL EQUIPMENT CORPORATION
301 ROCKRIMMON BLVD, SOUTH
COLORADO SPRINGS CO 80919
US

00-90-66 (hex) Troika Networks, Inc.
009066 (base 16) Troika Networks, Inc.
2829 Townsgate Road,
Westlake Village CA 91361
US

00-90-DE (hex) CARDKEY SYSTEMS, INC.
0090DE (base 16) CARDKEY SYSTEMS, INC.
1757 TAPO CANYON ROAD
SIMI VALLEY CA 93063
US

00-90-BE (hex) IBC/INTEGRATED BUSINESS COMPUTERS
0090BE (base 16) IBC/INTEGRATED BUSINESS COMPUTERS
2685 C PARK CENTER DRIVE
SIMI VALLEY CA 93065
US

00-90-6B (hex) APPLIED RESOURCES, INC.
00906B (base 16) APPLIED RESOURCES, INC.
9821 WIDMER ROAD
LENEXA
KS 66215-1239
US

00-10-8A (hex) TeraLogic, Inc.
00108A (base 16) TeraLogic, Inc.
707 CALIFORNIA STREET
MOUNTAIN VIEW CA 94041
US

00-10-24 (hex) NAGOYA ELECTRIC WORKS CO., LTD
001024 (base 16) NAGOYA ELECTRIC WORKS CO., LTD
29-1 SHINODA, MIWA-CHO
AMA-GUN, AICHI 490-12
JP

00-10-D6 (hex) Exelis
0010D6 (base 16) Exelis
7310 Innovation Blvd., M/S 536
Ft Wayne IN 46818
US

00-10-48 (hex) HTRC AUTOMATION, INC.
001048 (base 16) HTRC AUTOMATION, INC.
285 LAVAL STREET
QUEBEC J0B 1H0
CA

00-10-97 (hex) WinNet Metropolitan Communications Systems, Inc.
001097 (base 16) WinNet Metropolitan Communications Systems, Inc.
661 EAST ARQUES AVE.
SUNNYVALE CA 94086
US

00-10-85 (hex) POLARIS COMMUNICATIONS, INC.
001085 (base 16) POLARIS COMMUNICATIONS, INC.
10200 SW ALLEN BLVD.
BEAVERTON OR 97005
US

00-10-0C (hex) ITO CO., LTD.
00100C (base 16) ITO CO.,
LTD.
8-2 MIYANOSHITA-CHO
HIRAKATA-CITY, OSAKA
JP

00-10-06 (hex) Thales Contact Solutions Ltd.
001006 (base 16) Thales Contact Solutions Ltd.
Tolbar Way
Southampton, SO30 2ZP

GB

00-10-7F (hex) CRESTRON ELECTRONICS, INC.
00107F (base 16) CRESTRON ELECTRONICS, INC.
15 Volvo Drive
Rockleigh NJ 07647
US

00-10-D4 (hex) STORAGE COMPUTER CORPORATION
0010D4 (base 16) STORAGE COMPUTER CORPORATION
11 RIVERSIDE STREET
NASHUA NH 03062
US

00-10-E2 (hex) ArrayComm, Inc.
0010E2 (base 16) ArrayComm, Inc.
3141 ZANKER ROAD
SAN JOSE CA 95134
US

00-06-29 (hex) IBM Corp
000629 (base 16) IBM Corp
3039 E Cornwallis Road
Research Triangle Park NC 27709-2195
US

00-10-A9 (hex) ADHOC TECHNOLOGIES
0010A9 (base 16) ADHOC TECHNOLOGIES
1150 FIRST STREET
SAN JOSE CA 95112
US

00-10-50 (hex) RION CO., LTD.
001050 (base 16) RION CO., LTD.
3-20-41 HIGASHIMOTOMACHI
KOKUBUNJI,
TOKYO 185
JP

00-10-CE (hex) VOLAMP, LTD.
0010CE (base 16) VOLAMP, LTD.
UNIT 3 RIVERSIDE BUSINESS PARK
FARNHAM, SURREY ENGLAND
GB

00-10-B2 (hex) COACTIVE AESTHETICS
0010B2 (base 16) COACTIVE AESTHETICS
4000 BRIDGEWAY - STE. #303

SAUSALITA CA 94965
US

00-10-6E (hex) TADIRAN COM. LTD.
00106E (base 16) TADIRAN COM. LTD.
26 HASHOFTIM ST.
HOLON 58102
IL

00-10-6F (hex) TRENTON TECHNOLOGY INC.
00106F (base 16) TRENTON TECHNOLOGY INC.
2350 CENTENNIAL DRIVE
GAINESVILLE GA 30504
US

00-10-34 (hex) GNP Computers
001034 (base 16) GNP Computers
555 E.Huntington Drive
Monrovia CA 91016
US

00-10-44 (hex) InnoLabs Corporation
001044 (base 16) InnoLabs Corporation
2F-4, NO. 16, LANE 609, CHUNG-HSIN RD.
Taipei Hsien
TW

00-10-89 (hex) WebSonic
001089 (base 16) WebSonic
3466 EDWARD AVE.
SANTA CLARA CA 95054
US

00-10-6A
(hex) DIGITAL MICROWAVE CORPORATION
00106A (base 16) DIGITAL MICROWAVE CORPORATION
170 ROSE ORCHARD WAY
SAN JOSE CA 95134
US

00-10-94 (hex) Performance Analysis Broadband, Spirent plc
001094 (base 16) Performance Analysis Broadband, Spirent plc
27349 Agoura Road
Calabasas Hills CA 91301
US

00-10-3C (hex) IC ENSEMBLE, INC.
00103C (base 16) IC ENSEMBLE, INC.

3255-2 SCOTT BLVD.--STE.#105
SANTA CLARA CA 95054
US

00-10-19 (hex) SIRONA DENTAL SYSTEMS GmbH & Co. KG
001019 (base 16) SIRONA DENTAL SYSTEMS GmbH & Co. KG
FABRIKSTRASSE 31
64625 BENSHEIM
DE

00-10-08 (hex) VIENNA SYSTEMS CORPORATION
001008 (base 16) VIENNA SYSTEMS CORPORATION
6651 FRASERWOOD PLACE
RICHMOND, B.C. V6W 1J3
CA

00-10-D1 (hex) Top Layer Networks, Inc.
0010D1 (base 16) Top Layer Networks, Inc.
4 MECHANIC ST.- STE#212
NATICK MA 01760
US

00-10-D2 (hex) NITTO TSUSHINKI CO.,
LTD
0010D2 (base 16) NITTO TSUSHINKI CO., LTD
7-27-11, TODOROKI, SETAGAYA-KU
TOKYO 151
JP

00-10-D9 (hex) IBM JAPAN, FUJISAWA MT+D
0010D9 (base 16) IBM JAPAN, FUJISAWA MT+D
KIRIHARA-CHO 1, FUJISAWA CITY
KANAGAWA 252
JP

00-10-9A (hex) NETLINE
00109A (base 16) NETLINE
7, Rue de Bievres
92140 CLAMART
FR

00-10-A1 (hex) KENDIN SEMICONDUCTOR, INC.
0010A1 (base 16) KENDIN SEMICONDUCTOR, INC.
1550 S. BASCOM AVE., STE. #250
CAMPBELL CA 95008
US

00-10-5F (hex) ZODIAC DATA SYSTEMS

00105F (base 16) ZODIAC DATA SYSTEMS
5 Av Des Andes
Les Ulis 91940
FR

00-10-3E (hex) NETSCHOOLS CORPORATION
00103E (base 16) NETSCHOOLS CORPORATION
2003 LANDINGS DRIVE
MOUNTAIN VIEW CA 94043
US

00-10-CB (hex) FACIT K.K.
0010CB (base 16) FACIT K.K.
HIMEI NIHOMBASHI BLDG. 3F
CHUO-KU, TOKYO 103
JP

00-10-38 (hex) Micro Research Ltd.
001038 (base 16) Micro
Research Ltd.
2F Minami-Shinagawa N Bldg., 2-2-10 Minami-Shinagawa
Tokyo Shinagawa-Ku 140-0004
JP

00-10-E0 (hex) Oracle Corporation
0010E0 (base 16) Oracle Corporation
500 Oracle Parkway
Redwood Shores CA 94065
US

00-10-7C (hex) P-COM, INC.
00107C (base 16) P-COM, INC.
3175 S. WINCHESTER BLVD.
CAMPBELL CA 95008
US

00-10-BD (hex) THE TELECOMMUNICATION TECHNOLOGY COMMITTEE (TTC)
0010BD (base 16) THE TELECOMMUNICATION TECHNOLOGY COMMITTEE (TTC)
1-1-12 Shiba Kouen, Minato-ku
MINATO-KU, TOKYO 105-0011
JP

00-10-3B (hex) HIPPI NETWORKING FORUM
00103B (base 16) HIPPI NETWORKING FORUM
PO BOX 10173
ALBUQUERQUE NM 87184-0173
US

00-10-A8 (hex) RELIANCE COMPUTER CORP.
0010A8 (base 16) RELIANCE COMPUTER CORP.
3032 BUNKER HILL LANE
SANTA CLARA CA 95054
US

00-E0-B4 (hex) TECHNO SCOPE CO., LTD.
00E0B4 (base 16) TECHNO SCOPE CO., LTD.
13-6-7 KISHIMATI URAWASI
SAITAMA
336
JP

00-E0-71 (hex) EPIS MICROCOMPUTER
00E071 (base 16) EPIS MICROCOMPUTER
LAUTLINGER STRASSE 147
72458 ALBSTADT
DE

00-E0-66 (hex) ProMax Systems, Inc.
00E066 (base 16) ProMax Systems, Inc.
16 TECHNOLOGY DRIVE--BLDG.#106
IRVINE CA 92656
US

00-E0-93 (hex) ACKFIN NETWORKS
00E093 (base 16) ACKFIN NETWORKS
575 N. PASTORIA AVE.
SUNNYVALE CA 94086
US

00-E0-4B (hex) JUMP INDUSTRIELLE COMPUTERTECHNIK GmbH
00E04B (base 16) JUMP INDUSTRIELLE COMPUTERTECHNIK GmbH

D94469 DEGGENDORF
DE

00-E0-F0 (hex) ABLER TECHNOLOGY, INC.
00E0F0 (base 16) ABLER TECHNOLOGY, INC.
4F, NO. 54 SEC. 4
TAIPEI
TW

00-E0-02 (hex) CROSSROADS SYSTEMS, INC.
00E002 (base 16) CROSSROADS SYSTEMS, INC.
9390 RESEARCH BLVD.
AUSTIN TX 78759
US

00-E0-D6 (hex) COMPUTER & COMMUNICATION RESEARCH LAB.
00E0D6 (base 16) COMPUTER & COMMUNICATION RESEARCH LAB.

CHUTUNG,
HSINCHU
TW

00-E0-B7 (hex) Cosworth Electronics Ltd
00E0B7 (base 16) Cosworth Electronics Ltd
The Octagon, St. James Mill Road
Northampton Northamptonshire NN5 5RA, GB
GB

00-E0-83 (hex) JATO TECHNOLOGIES, INC.
00E083 (base 16) JATO TECHNOLOGIES, INC.
505 EAST HUNTLAND DR. STE #550
AUSTIN TX 78752
US

00-E0-72 (hex) LYNK
00E072 (base 16) LYNK
RABIN BUILDING
D.N. MISGAV 201
IL

00-E0-AD (hex) EES TECHNOLOGY, LTD.
00E0AD (base 16) EES TECHNOLOGY, LTD.
25 EASTWAYS
WITHAM, ESSEX, CM8 3AL
GB

00-E0-94 (hex) OSAI SRL
00E094 (base 16) OSAI SRL
VIA TORINO
603-IVREA (TO)
IT

00-E0-32 (hex) MISYS FINANCIAL SYSTEMS, LTD.
00E032 (base 16) MISYS FINANCIAL SYSTEMS, LTD.
BUCKHOLT DRIVE,
WARNDON, WORCESTER WR49SR
GB

00-E0-C0 (hex) SEIWA ELECTRIC MFG. CO., LTD.
00E0C0 (base 16) SEIWA ELECTRIC MFG. CO., LTD.
86 TARADA SHIN-IKE,
KYOTO

PREFECTURE
JP

00-E0-27 (hex) DUX, INC.
00E027 (base 16) DUX, INC.
5-18-19, NISHIKAMATA, OTA-KU
TOKYO-TO, 144
JP

00-E0-44 (hex) LSICS CORPORATION
00E044 (base 16) LSICS CORPORATION
3-8-3 NINOMIYA, TSKUKUBA SHI
IBARAGI-KEN, 305
JP

00-E0-CA (hex) BEST DATA PRODUCTS
00E0CA (base 16) BEST DATA PRODUCTS
21800 NORDHOFF STREET
CHATSWORTH CA 91311
US

00-E0-A7 (hex) IPC INFORMATION SYSTEMS, INC.
00E0A7 (base 16) IPC INFORMATION SYSTEMS, INC.
METRO CENTER
STAMFORD CT 06907
US

00-E0-97 (hex) CARRIER ACCESS CORPORATION
00E097 (base 16) CARRIER ACCESS CORPORATION
5395 PEARL PARKWAY
BOULDER CO 80301
US

00-E0-BA (hex) BERGHOF AUTOMATIONSTECHNIK GmbH
00E0BA (base 16) BERGHOF AUTOMATIONSTECHNIK GmbH
HARRET STRASSE 1
D 72800 ENINGEN
DE

00-E0-21 (hex) FREEGATE CORP.
00E021 (base 16) FREEGATE CORP.
710 LAKEWAY STE.#230
SUNNYVALE CA
94086
US

00-E0-5B (hex) WEST END SYSTEMS CORP.
00E05B (base 16) WEST END SYSTEMS CORP.

39 WINNER'S CIRCLE DR.,
ARNPRIOR, ONTARIO K7S 3G9
CA

00-E0-62 (hex) HOST ENGINEERING
00E062 (base 16) HOST ENGINEERING
200 EAST MAIN STREET -STE.#700
JOHNSON CITY TN 37604
US

00-E0-D8 (hex) LANBit Computer, Inc.
00E0D8 (base 16) LANBit Computer, Inc.
12F, 552 CHUNG HSIAO E., RD.

TW

00-E0-1F (hex) AVIDIA Systems, Inc.
00E01F (base 16) AVIDIA Systems, Inc.
135 NORTH PLAINS INDUSTRIAL RD
WALLINGFORD CT 06492
US

00-E0-D0 (hex) NETSPEED, INC.
00E0D0 (base 16) NETSPEED, INC.
12303 TECHNOLOGY BLVD.
AUSTIN TX 78727
US

00-E0-60 (hex) SHERWOOD
00E060 (base 16) SHERWOOD
21056 FORBES STREET
HAYWARD CA 94545
US

00-E0-74 (hex) TIERNAN COMMUNICATIONS, INC.
00E074 (base 16) TIERNAN COMMUNICATIONS, INC.
11025 ROSELLE ST.
SAN DIEGO CA 92121
US

00-E0-D9
(hex) TAZMO CO., LTD.
00E0D9 (base 16) TAZMO CO., LTD.
6186 KINOKO, IBARA-SHI
OKAYAMA 715
JP

00-E0-55 (hex) INGENIERIA ELECTRONICA COMERCIAL INELCOM S.A.

00E055 (base 16) INGENIERIA ELECTRONICA COMERCIAL INELCOM S.A.
CL. PIQUER NO.3
28033 MADRID
ES

00-E0-42 (hex) Pacom Systems Ltd.
00E042 (base 16) Pacom Systems Ltd.
UNIT 22 38/46 SOUTH ST.
RYDALMERE 2116 NSW
AU

00-E0-EB (hex) DIGICOM SYSTEMS, INCORPORATED
00E0EB (base 16) DIGICOM SYSTEMS, INCORPORATED
188 TOPAZ STREET
MILPITAS CA 95035
US

00-E0-D1 (hex) TELSIS LIMITED
00E0D1 (base 16) TELSIS LIMITED
16 BARNES WALLACE ROAD
FAREHAM, HAMPSHIRE PO15 5TT ENGLAND
GB

00-E0-89 (hex) ION Networks, Inc.
00E089 (base 16) ION Networks, Inc.
1551 South Washington Ave.
Piscataway NJ 08854
US

00-E0-70 (hex) DH TECHNOLOGY
00E070 (base 16) DH TECHNOLOGY
3003 ROLLIE GATES DRIVE
PASO ROBLES
CA 93446
US

00-E0-5C (hex) PHC Corporation
00E05C (base 16) PHC Corporation
2-38-5 Nishishimbashi
Minato-ku Tokyo 105-8433
JP

00-E0-73 (hex) NATIONAL AMUSEMENT NETWORK, INC.
00E073 (base 16) NATIONAL AMUSEMENT NETWORK, INC.
401 N. MICHIGAN AVENUE
CHICAGO IL 60611
US

00-E0-6A (hex) KAPSCH AG
00E06A (base 16) KAPSCH AG
WAGENSEILGASSE 1
1120-VIENNA
AT

00-E0-01 (hex) STRAND LIGHTING LIMITED
00E001 (base 16) STRAND LIGHTING LIMITED
GRANT WAY
MIDDLESEX England TW7 5QD
GB

00-E0-CE (hex) ARN
00E0CE (base 16) ARN
51, RUE GASTON LAURIAU
F-93512 MONTREUIL CEDEX
FR

00-E0-5F (hex) e-Net, Inc.
00E05F (base 16) e-Net, Inc.
12325 HYMEADOW DRIVE
AUSTIN TX 78750
US

00-E0-E7 (hex) RAYTHEON E-SYSTEMS, INC.
00E0E7 (base 16) RAYTHEON E-SYSTEMS, INC.
1301 E. COLLINS
RICHARDSON TX 75081
US

00-60-66 (hex) LACROIX Trafic
006066 (base
16) LACROIX Trafic
1 ere Avenue, 11 eme rue
06516 CARROS
FR

00-60-F4 (hex) ADVANCED COMPUTER SOLUTIONS, Inc.
0060F4 (base 16) ADVANCED COMPUTER SOLUTIONS, Inc.
12675 DANIELSON COURT
POWAY CA 92064
US

00-60-60 (hex) Data Innovations North America
006060 (base 16) Data Innovations North America
120 Kimball Avenue Suite 100
South Burlington VT 05403
US

00-60-F7 (hex) DATAFUSION SYSTEMS
0060F7 (base 16) DATAFUSION SYSTEMS
P.O. BOX 582
STELLENBOSCH, 7599
ZA

00-60-20 (hex) PIVOTAL NETWORKING, INC.
006020 (base 16) PIVOTAL NETWORKING, INC.
7246 SHARON DR., STE
SAN JOSE CA 95129
US

00-60-C0 (hex) Nera Networks AS
0060C0 (base 16) Nera Networks AS
Kokstadveien 23
Bergen 5020
NO

00-60-0E (hex) WAVENET INTERNATIONAL, INC.
00600E (base 16) WAVENET INTERNATIONAL, INC.
5825 KENNEDY ROAD
MISSISSAUGA, ONTARIO L4Z 2G3
CA

00-60-35 (hex) DALLAS
SEMICONDUCTOR, INC.
006035 (base 16) DALLAS SEMICONDUCTOR, INC.
4401 SOUTH BELTWOOD PARKWAY
DALLAS TX 75244-3292
US

00-60-07 (hex) ACRES GAMING, INC.
006007 (base 16) ACRES GAMING, INC.
815 NW 9TH STREET
CORVALLIS OR 97330
US

00-60-58 (hex) COPPER MOUNTAIN COMMUNICATIONS, INC.
006058 (base 16) COPPER MOUNTAIN COMMUNICATIONS, INC.
6650 LUSK BLVD.-STE #B103
SAN DIEGO CA 92121
US

00-60-A0 (hex) SWITCHED NETWORK TECHNOLOGIES, INC.
0060A0 (base 16) SWITCHED NETWORK TECHNOLOGIES, INC.
13805 1ST AVENUE NORTH
PLYMOUTH MN 55441-5455

US

00-60-17 (hex) TOKIMEC INC.
006017 (base 16) TOKIMEC INC.
2-16, MINAMI-KAMATA, OHTA-KU
TOKYO 144
JP

00-60-26 (hex) VIKING Modular Solutions
006026 (base 16) VIKING Modular Solutions
11 COLUMBIA
LAGUNA HILLS CA 92656
US

00-60-19 (hex) Roche Diagnostics
006019 (base 16) Roche Diagnostics
9115 Hague Road
Indianapolis
IN 46250-0457
US

00-60-59 (hex) TECHNICAL COMMUNICATIONS CORP.
006059 (base 16) TECHNICAL COMMUNICATIONS CORP.
100 DOMINO DRIVE
CONCORD MA 01742
US

00-60-03 (hex) TERAOKA WEIGH SYSTEM PTE, LTD.
006003 (base 16) TERAOKA WEIGH SYSTEM PTE, LTD.
3A TUAS AVENUE 8
SINGAPORE 639128
SG

00-60-7A (hex) DVS GMBH
00607A (base 16) DVS GMBH
KREPENSTRASSE 8
D-30165 HANNOVER
DE

00-60-F3 (hex) Performance Analysis Broadband, Spirent plc
0060F3 (base 16) Performance Analysis Broadband, Spirent plc
27349 Agoura Road
Calabasas Hills CA 91301
US

00-60-7C (hex) WaveAccess, Ltd.
00607C (base 16) WaveAccess, Ltd.
P.O. BOX 2473

RA'ANANA 43663
IL

00-60-73 (hex) REDCREEK COMMUNICATIONS, INC.
006073 (base 16) REDCREEK COMMUNICATIONS, INC.
3900 NEWPARK MALL ROAD
NEWARK CA 94560
US

00-E0-3C (hex) AdvanSys
00E03C (base 16) AdvanSys
1150 RINGWOOD COURT
SAN
JOSE CA 95131
US

00-E0-24 (hex) GADZOOX NETWORKS
00E024 (base 16) GADZOOX NETWORKS
5850 HELLYER AVENUE
SAN JOSE CA 95138
US

00-60-5B (hex) IntraServer Technology, Inc.
00605B (base 16) IntraServer Technology, Inc.
125 HOPPING BROOK PARK
HOLLISTON MA 01746
US

00-60-D7 (hex) ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE (EPFL)
0060D7 (base 16) ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE (EPFL)
ECUBLENS
CH-1015 LAUSANNE
CH

00-60-7D (hex) SENTIENT NETWORKS INC.
00607D (base 16) SENTIENT NETWORKS INC.
2201 CANTU COURT-STE #205
SARASOTA FL 34232
US

00-60-6E (hex) DAVICOM SEMICONDUCTOR, INC.
00606E (base 16) DAVICOM SEMICONDUCTOR, INC.
2457 AUGUSTINE DRIVE
SANTA CLARA CA 95054
US

00-60-C7 (hex) AMATI COMMUNICATIONS CORP.
0060C7 (base 16) AMATI COMMUNICATIONS CORP.

2043 SAMARITAN DRIVE
SAN JOSE CA 95124
US

10-00-E8 (hex) NATIONAL SEMICONDUCTOR
1000E8
(base 16) NATIONAL SEMICONDUCTOR
2900 SEMICONDUCTOR DRIVE
SANTA CLARA CA 95051
US

00-60-FD (hex) NetICs, Inc.
0060FD (base 16) NetICs, Inc.
42 NAGOG PARK
ACTON MA 01720
US

00-60-FB (hex) PACKETEER, INC.
0060FB (base 16) PACKETEER, INC.
10201 N. DE ANZA BOULEVARD
CUPERTINO CA 95014
US

00-60-C1 (hex) WaveSpan Corporation
0060C1 (base 16) WaveSpan Corporation
500 N. BERNARDO AVE.
MOUNTAIN VIEW CA 94043
US

00-60-3C (hex) HAGIWARA SYS-COM CO., LTD.
00603C (base 16) HAGIWARA SYS-COM CO., LTD.
2-4-3 NISHIKI NAKA-KU
AICHI 460
JP

00-60-CB (hex) HITACHI ZOSEN CORPORATION
0060CB (base 16) HITACHI ZOSEN CORPORATION
3-4, SAKURAJIMA 1-CHOME
KONOHANA-KU, OSAKA 554
JP

00-60-C8 (hex) KUKA WELDING SYSTEMS & ROBOTS
0060C8 (base 16) KUKA WELDING SYSTEMS & ROBOTS
BLUECHERSTRASSE 144
D-86165 AUGSBURG
DE

00-60-23 (hex) PERICOM SEMICONDUCTOR

CORP.
006023 (base 16) PERICOM SEMICONDUCTOR CORP.
2380 BERING DRIVE
SAN JOSE CA 95131
US

00-60-63 (hex) PSION DACOM PLC.
006063 (base 16) PSION DACOM PLC.
PSION DACOM HOUSE
CROWNHILL MILTON KEYNES MK8 0EF
GB

00-60-31 (hex) HRK SYSTEMS
006031 (base 16) HRK SYSTEMS
P.O. BOX 514
WESTVILLE 3630
ZA

00-60-ED (hex) RICARDO TEST AUTOMATION LTD.
0060ED (base 16) RICARDO TEST AUTOMATION LTD.
LOWESMOOR WHARF
WORCESTER, WR12RS
GB

00-60-12 (hex) POWER COMPUTING CORPORATION
006012 (base 16) POWER COMPUTING CORPORATION
10261 BUBB ROAD
CUPERTINO CA 95014
US

00-60-4D (hex) MMC NETWORKS, INC.
00604D (base 16) MMC NETWORKS, INC.
1134 EAST ARQUES AVENUE
SUNNYVALE CA 94086-4602
US

00-60-DD (hex) MYRICOM, INC.
0060DD (base 16) MYRICOM, INC.
325B N. SANTA ANITA AVE.
ARCADIA CA 91006
US

00-A0-9A (hex) NIHON KOHDEN AMERICA
00A09A (base
16) NIHON KOHDEN AMERICA
2446 DUPONT DRIVE
IRVINE CA 92715
US

00-A0-78 (hex) Marconi Communications
00A078 (base 16) Marconi Communications
1000 Fore Drive
Warrendale PA 15086-7502
US

00-A0-BF (hex) WIRELESS DATA GROUP MOTOROLA
00A0BF (base 16) WIRELESS DATA GROUP MOTOROLA
1201 E. WILEY ROAD
SCHAUMBURG IL 60173
US

00-60-AB (hex) LARSCOM INCORPORATED
0060AB (base 16) LARSCOM INCORPORATED
1845 MCCANDLESS DRIVE
MILPITAS CA 95035
US

00-60-5A (hex) CELCORE, INC.
00605A (base 16) CELCORE, INC.
8001 CENTERVIEW PARKWAY
MEMPHIS TN 38018
US

00-60-95 (hex) ACCU-TIME SYSTEMS, INC.
006095 (base 16) ACCU-TIME SYSTEMS, INC.
420 SOMERS ROAD
ELLINGTON CT 06029
US

00-A0-56 (hex) MICROPROSS
00A056 (base 16) MICROPROSS
33, RUE GANTOIS
59000 LILLE
FR

00-A0-E1 (hex) WESTPORT RESEARCH ASSOCIATES, INC.
00A0E1 (base 16) WESTPORT RESEARCH ASSOCIATES,
INC.
6102 ARLINGTON
RAYTOWN MO 64133
US

00-60-77 (hex) PRISA NETWORKS
006077 (base 16) PRISA NETWORKS
6620 Mesa Ridge Road,
San Diego CA 92121

US

00-60-94 (hex) IBM Corp
006094 (base 16) IBM Corp
3039 E Cornwallis Road
Research Triangle Park NC 27709-2195
US

00-60-A3 (hex) CONTINUUM TECHNOLOGY CORP.
0060A3 (base 16) CONTINUUM TECHNOLOGY CORP.
220 CONTINUUM DRIVE
FLETCHER NC 28732
US

00-60-3D (hex) 3CX
00603D (base 16) 3CX
2085 HAMILTON AVE., -STE.#220
SAN JOSE CA 95125
US

00-60-8A (hex) CITADEL COMPUTER
00608A (base 16) CITADEL COMPUTER
29 ARMORY RD
MILFORD MA 03055
US

00-60-93 (hex) VARIAN
006093 (base 16) VARIAN
2700 MITCHELL DR.
WALNUT GREEK CA 94598
US

00-60-46 (hex) VMETRO, INC.
006046 (base 16) VMETRO, INC.
1880 DAIRY ASHFORD- STE #535
HOUSTON TX 77077
US

00-A0-5F (hex) BTG Electronics Design BV
00A05F
(base 16) BTG Electronics Design BV
P.O. Box 1543
BA Oud Beijerland
NL

00-A0-CD (hex) DR. JOHANNES HEIDENHAIN GmbH
00A0CD (base 16) DR. JOHANNES HEIDENHAIN GmbH
DR.-JOHANNES-HEIDENHAIN STR.

83301 TRAUNREUT
DE

00-A0-DA (hex) INTEGRATED SYSTEMS Technology, Inc.
00A0DA (base 16) INTEGRATED SYSTEMS Technology, Inc.
4601 PRESIDENTS DRIVE
LANHAM MD 20706
US

00-A0-2A (hex) TRANCELL SYSTEMS
00A02A (base 16) TRANCELL SYSTEMS
3180 DE LA CRUZ BLVD.-STE#200
SANTA CLARA CA 95054-2402
US

00-A0-3F (hex) COMPUTER SOCIETY MICROPROCESSOR & MICROPROCESSOR STANDARDS C
00A03F (base 16) COMPUTER SOCIETY MICROPROCESSOR & MICROPROCESSOR STANDARDS C
% APPLE COMPUTER, INC.
CUPERTINO CA 95014
US

00-A0-2D (hex) 1394 Trade Association
00A02D (base 16) 1394 Trade Association
3925 WEST BRAKER LANE
AUSTIN TX 78759
US

00-A0-7C (hex) TONYANG NYLON CO., LTD.
00A07C (base 16) TONYANG
NYLON CO., LTD.
ELECTRONIC RESEARCH LAB
ANYANG-CITY, KYUNGKI-DO 430-080
KR

00-A0-E6 (hex) DIALOGIC CORPORATION
00A0E6 (base 16) DIALOGIC CORPORATION
1515 ROUTE 10
PARSIPPANY NJ 07054
US

00-A0-4A (hex) NISSHIN ELECTRIC CO., LTD.
00A04A (base 16) NISSHIN ELECTRIC CO., LTD.
5, MEOTOGOSHI, MUTSUSHI,
AICHI 481
JP

00-A0-35 (hex) CYLINK CORPORATION
00A035 (base 16) CYLINK CORPORATION

3131 JAY STREET
SANTA CLARA CA 95054
US

00-A0-3D (hex) OPTO-22
00A03D (base 16) OPTO-22
43044 BUSINESS PARK DR.
TEMECULA CA 92590
US

00-A0-26 (hex) TELDAT, S.A.
00A026 (base 16) TELDAT, S.A.
PARQUE TECNOLOGICO MADRID
28760 TACS CAN TOS (MADRID)
ES

00-A0-23 (hex) APPLIED CREATIVE TECHNOLOGY, INC.
00A023 (base 16) APPLIED CREATIVE TECHNOLOGY, INC.
2626 LOMBARDY LANE--STE.#107
DALLAS TX 75220
US

00-A0-14 (hex) CSIR
00A014 (base 16) CSIR
P.O.
BOX 395
SOUTH AFRICA
ZA

00-A0-15 (hex) WYLE
00A015 (base 16) WYLE
3000 BOWERS AVENUE
SANTA CLARA CA 95051
US

00-A0-6A (hex) Verilink Corporation
00A06A (base 16) Verilink Corporation
127 Jetplex Circle
Madison AL 35758
US

00-A0-70 (hex) COASTCOM
00A070 (base 16) COASTCOM
1151 HARBOR BAY PARKWAY
ALAMEDA CA 94502-6511
US

00-A0-1C (hex) NASCENT NETWORKS CORPORATION

00A01C (base 16) NASCENT NETWORKS CORPORATION
277 MAIN STREET, 3RD FLR.
MARLBORO MA 01752
US

00-A0-8F (hex) DESKNET SYSTEMS, INC.
00A08F (base 16) DESKNET SYSTEMS, INC.
80 BUSINESS PARK DRIVE
ARMONK NY 10504
US

00-A0-CC (hex) LITE-ON COMMUNICATIONS, INC.
00A0CC (base 16) LITE-ON COMMUNICATIONS, INC.
720 S. HILLVIEW DRIVE
MILPITAS CA 95035
US

00-A0-89 (hex) XPOINT TECHNOLOGIES, INC.
00A089 (base 16) XPOINT TECHNOLOGIES, INC.
902 CLINT MOORE RD.-STE#132
BOCA RATON
FL 33487
US

00-A0-07 (hex) APEXX TECHNOLOGY, INC.
00A007 (base 16) APEXX TECHNOLOGY, INC.
506 S. 11TH
BOISE ID 83707
US

00-A0-47 (hex) INTEGRATED FITNESS CORP.
00A047 (base 16) INTEGRATED FITNESS CORP.
26 6TH STREET
STAMFORD CT 06905
US

00-A0-32 (hex) GES SINGAPORE PTE. LTD.
00A032 (base 16) GES SINGAPORE PTE. LTD.
14 SUNGEI KADUT AVENUE
SINGAPORE 2572
SG

00-A0-E3 (hex) XKL SYSTEMS CORP.
00A0E3 (base 16) XKL SYSTEMS CORP.
8420 154TH AVE. NE
REDMOND WA 98052
US

00-A0-B7 (hex) CORDANT, INC.
00A0B7 (base 16) CORDANT, INC.
11400 COMMERCE PARK DR.
RESTON VA 22091-1506
US

00-20-C0 (hex) PULSE ELECTRONICS, INC.
0020C0 (base 16) PULSE ELECTRONICS, INC.
5706 FREDERICK AVENUE
ROCKVILLE MD 20852
US

00-20-47 (hex) STEINBRECHER CORP.
002047 (base 16) STEINBRECHER CORP.
30 NORTH AVENUE
BURLINGTON MA 01803
US

00-20-D5 (hex) VIPA
GMBH
0020D5 (base 16) VIPA GMBH
WETTERKREUZ 27

DE

00-20-1A (hex) MRV Communications, Inc.
00201A (base 16) MRV Communications, Inc.
20415 Nordhoff St.
Chatsworth CA 91311
US

00-20-6F (hex) FLOWPOINT CORPORATION
00206F (base 16) FLOWPOINT CORPORATION
7291 CORONADO DRIVE, STE# 4
SAN JOSE CA 95129
US

00-20-20 (hex) MEGATRON COMPUTER INDUSTRIES PTY, LTD.
002020 (base 16) MEGATRON COMPUTER INDUSTRIES PTY, LTD.

AU

00-20-1B (hex) NORTHERN TELECOM/NETWORK
00201B (base 16) NORTHERN TELECOM/NETWORK
SYSTEMS CORPORATION
CANADA K8N 5B7
CA

00-A0-18 (hex) CREATIVE CONTROLLERS, INC.
00A018 (base 16) CREATIVE CONTROLLERS, INC.
128 KENDRICK LANE
PICAYUNE MS 39466
US

00-A0-FE (hex) BOSTON TECHNOLOGY, INC.
00A0FE (base 16) BOSTON TECHNOLOGY, INC.
100 QUANNAPOWITT PARKWAY
WAKEFIELD MA 01880
US

00-A0-D9 (hex) CONVEX COMPUTER CORPORATION
00A0D9
(base 16) CONVEX COMPUTER CORPORATION
3000 WATERVIEW PARKWAY
RICHARDSON TX 75083-3851
US

00-A0-EB (hex) Encore Networks, Inc.
00A0EB (base 16) Encore Networks, Inc.
3800 Concorde Parkway,
Chantilly, VA 20151
US

00-A0-7D (hex) SEEQ TECHNOLOGY, INC.
00A07D (base 16) SEEQ TECHNOLOGY, INC.
47131 BAYSIDE PARKWAY
FREMONT CA 94538
US

00-20-9A (hex) THE 3DO COMPANY
00209A (base 16) THE 3DO COMPANY
600 GALVESTON DRIVE
REDWOOD CITY CA 94063
US

00-20-DE (hex) JAPAN DIGITAL LABORAT'Y CO.LTD
0020DE (base 16) JAPAN DIGITAL LABORAT'Y CO.LTD
JDL KAWASAKI R & D CENTER
KANAGAWA-KEN 215
JP

00-20-0B (hex) OCTAGON SYSTEMS CORP.
00200B (base 16) OCTAGON SYSTEMS CORP.
7403 Church Ranch Blvd
Westminster CO 80021

US

00-20-94 (hex) CUBIX CORPORATION
002094 (base 16) CUBIX CORPORATION
2800 LOCKHEED WAY
CARSON CITY NV 89706
US

00-20-F7 (hex) CYBERDATA
CORPORATION
0020F7 (base 16) CYBERDATA CORPORATION
3 Justin Court
MONTEREY CA 93940
US

00-20-D7 (hex) JAPAN MINICOMPUTER SYSTEMS CO., Ltd.
0020D7 (base 16) JAPAN MINICOMPUTER SYSTEMS CO., Ltd.
3-33-18 TAKAIDOHIGASHI
TOKYO 168
JP

00-20-C3 (hex) COUNTER SOLUTIONS LTD.
0020C3 (base 16) COUNTER SOLUTIONS LTD.
263 HEAGE ROAD
RIPLEY, DERBYS DE5 3GH
GB

00-20-4E (hex) NETWORK SECURITY SYSTEMS, INC.
00204E (base 16) NETWORK SECURITY SYSTEMS, INC.
9401 WAPLES STREET,STE. #100
SAN DIEGO CA 92121
US

00-20-CA (hex) DIGITAL OCEAN
0020CA (base 16) DIGITAL OCEAN
11206 THOMPSON AVENUE
LENEXA KS 66219-2303
US

00-20-95 (hex) RIVA ELECTRONICS
002095 (base 16) RIVA ELECTRONICS
UNIT 17, BARRSFOLD RD.
LANCASHIRE ENGLAND BL5 3XW
GB

00-20-3F (hex) JUKI CORPORATION
00203F (base 16) JUKI CORPORATION
8-2-1 KOKURYO-CHO

JP

00-20-90 (hex) ADVANCED COMPRESSION
TECHNOLOGY, INC.
002090 (base 16) ADVANCED COMPRESSION TECHNOLOGY, INC.
820 FLYNN ROAD
CAMARILLO CA 93012
US

00-20-62 (hex) SCORPION LOGIC, LTD.
002062 (base 16) SCORPION LOGIC, LTD.
19 BROOKSIDE ROAD
HERTS WD1 4BW
GB

00-20-81 (hex) TITAN ELECTRONICS
002081 (base 16) TITAN ELECTRONICS
3033 SCIENCE PARK ROAD
SAN DIEGO CA 92121
US

00-20-D9 (hex) PANASONIC TECHNOLOGIES, INC./MIECO-US
0020D9 (base 16) PANASONIC TECHNOLOGIES, INC./MIECO-US
1703 N. RANDALL RD.
ELGIN IL 60123
US

00-20-7E (hex) FINECOM CO., LTD.
00207E (base 16) FINECOM CO., LTD.
1108 HWAKOK-DONG, KANGSEO-KU
SEOUL
KR

00-20-4A (hex) PRONET GMBH
00204A (base 16) PRONET GMBH
KARLSTRASSE 49

DE

00-20-FF (hex) SYMMETRICAL TECHNOLOGIES
0020FF (base 16) SYMMETRICAL TECHNOLOGIES
500 HUNTMAR PARK DRIVE
HERNDON VA 22070
US

00-20-44 (hex) GENITECH PTY LTD
002044

(base 16) GENITECH PTY LTD
P.O. BOX 196

AU

00-20-A1 (hex) DOVATRON
0020A1 (base 16) DOVATRON
PRODUCTS DIVISION
LONGMONT CO 80501
US

00-20-AD (hex) LINQ SYSTEMS
0020AD (base 16) LINQ SYSTEMS
P.O. BOX 11040
TUCSON AZ 85734
US

00-20-7D (hex) ADVANCED COMPUTER APPLICATIONS
00207D (base 16) ADVANCED COMPUTER APPLICATIONS
107 PENNS TRAIL
NEWTOWN PA 18940
US

00-20-2F (hex) ZETA COMMUNICATIONS, LTD.
00202F (base 16) ZETA COMMUNICATIONS, LTD.
ZENITH HOUSE
WREXHAM, CLWYD, LL12 8LX
GB

00-20-FB (hex) OCTEL COMMUNICATIONS CORP.
0020FB (base 16) OCTEL COMMUNICATIONS CORP.
1001 MURPHY RANCH RD
MILPITAS CA 95035
US

00-20-70 (hex) HYNET, LTD.
002070 (base 16) HYNET, LTD.
102 JABOTINSKY ST.
PETACH TIKVA 49130
IL

00-20-BE (hex) LAN ACCESS CORP.
0020BE (base 16) LAN ACCESS CORP.
2730 MONTEREY STREET, STE.#102
TORRANCE CA 90503
US

00-20-F2

(hex) Oracle Corporation
0020F2 (base 16) Oracle Corporation
500 Oracle Parkway
Redwood Shores CA 94065
US

00-20-B8 (hex) PRIME OPTION, INC.
0020B8 (base 16) PRIME OPTION, INC.
2341 W. 205TH STREET #116
TORRANCE CA 90501
US

00-20-F3 (hex) RAYNET CORPORATION
0020F3 (base 16) RAYNET CORPORATION
155 CONSTITUTION DRIVE
MENLO PARK CA 94025
US

00-20-01 (hex) DSP SOLUTIONS, INC.
002001 (base 16) DSP SOLUTIONS, INC.
2464 EMBARCADERO WAY
PALO ALTO CA 94303
US

00-20-BF (hex) AEHR TEST SYSTEMS
0020BF (base 16) AEHR TEST SYSTEMS
1667 PLYMOUTH STREET
MOUNTAIN VIEW CA 94043
US

00-20-53 (hex) HUNTSVILLE MICROSYSTEMS, INC.
002053 (base 16) HUNTSVILLE MICROSYSTEMS, INC.
P.O. BOX 12415
HUNTSVILLE AL 35815
US

00-20-A9 (hex) WHITE HORSE INDUSTRIAL
0020A9 (base 16) WHITE HORSE INDUSTRIAL
4F. NO.16, ALLEY 56, LANE 181

TW

00-20-96
(hex) Invensys
002096 (base 16) Invensys
Robershaw Industrial Products
Marysville TN 37801
US

00-20-EF (hex) USC CORPORATION
0020EF (base 16) USC CORPORATION
6-4, OSAKI 1-CHOME
141
JP

00-20-30 (hex) ANALOG & DIGITAL SYSTEMS
002030 (base 16) ANALOG & DIGITAL SYSTEMS
1/2 LAVELLE ROAD

IN

00-20-AC (hex) INTERFLEX DATENSYSTEME GMBH
0020AC (base 16) INTERFLEX DATENSYSTEME GMBH
GROBWIESENSTRASE 24
WESTGERMANY
DE

00-20-D8 (hex) Nortel Networks
0020D8 (base 16) Nortel Networks
4401 Great America Pkwy.
Santa Clara CA 94588
US

00-C0-E1 (hex) SONIC SOLUTIONS
00C0E1 (base 16) SONIC SOLUTIONS
1891 E. FRANCISCO BLVD.
SAN RAFAEL CA 94901
US

00-C0-0F (hex) QUANTUM SOFTWARE SYSTEMS LTD.
00C00F (base 16) QUANTUM SOFTWARE SYSTEMS LTD.
175 TERRENCE MATTHEWS CRESCENT
K2L 3T5
CA

00-C0-87 (hex) UUNET TECHNOLOGIES, INC.
00C087 (base
16) UUNET TECHNOLOGIES, INC.
3110 FAIRVIEW PARK DR. #570
FALLS CHURCH VA 22042
US

00-20-36 (hex) BMC SOFTWARE
002036 (base 16) BMC SOFTWARE
1600 CITY WEST BLVD., #1600
HOUSTON TX 77042

US

00-20-F8 (hex) CARRERA COMPUTERS, INC.
0020F8 (base 16) CARRERA COMPUTERS, INC.
23181 VERDUGO DRIVE-STE.#105A
LAGUNA HILLS CA 92653
US

00-C0-06 (hex) NIPPON AVIONICS CO., LTD.
00C006 (base 16) NIPPON AVIONICS CO., LTD.
INDUSTRIAL SYSTEM DIVISION

JP

00-C0-A4 (hex) UNIGRAF OY
00C0A4 (base 16) UNIGRAF OY
RUUKINTIE 18

FI

00-C0-29 (hex) Nexans Deutschland GmbH - ANS
00C029 (base 16) Nexans Deutschland GmbH - ANS
Bonnenbroicher Str. 100

DE

00-C0-FA (hex) CANARY COMMUNICATIONS, INC.
00C0FA (base 16) CANARY COMMUNICATIONS, INC.
1851 ZANKER ROAD
SAN JOSE CA 95112-4213
US

00-C0-79 (hex) FONSYS CO.,LTD.
00C079 (base 16) FONSYS CO.,LTD.
209-5,
YANGJAE, SEOCHO
KOREA
KR

00-C0-2F (hex) OKUMA CORPORATION
00C02F (base 16) OKUMA CORPORATION
OGUCHI-CHO, NIWA-GUN

JP

00-C0-1E (hex) LA FRANCAISE DES JEUX
00C01E (base 16) LA FRANCAISE DES JEUX
CENTRE DE ROUSSY/DTI

FR

00-C0-65 (hex) SCOPE COMMUNICATIONS, INC.
00C065 (base 16) SCOPE COMMUNICATIONS, INC.
100 OTIS STREET
NORTHBORO MA 01532
US

00-20-66 (hex) GENERAL MAGIC, INC.
002066 (base 16) GENERAL MAGIC, INC.
2465 LATHAM STREET
MOUNTAIN VIEW CA 94040
US

00-C0-1B (hex) SOCKET COMMUNICATIONS, INC.
00C01B (base 16) SOCKET COMMUNICATIONS, INC.
2823 WHIPPLE RD.
UNION CITY CA 94587
US

00-40-6F (hex) SYNC RESEARCH INC.
00406F (base 16) SYNC RESEARCH INC.
7 STUDEBAKER
IRVINE CA 92718
US

00-40-4F (hex) SPACE & NAVAL WARFARE SYSTEMS
00404F (base 16) SPACE & NAVAL WARFARE SYSTEMS
NUWC
NEWPORT RI 02841-5047
US

00-40-8F
(hex) WM-DATA MINFO AB
00408F (base 16) WM-DATA MINFO AB
OLOF ASKLUNDS GATA 14

SE

00-40-D7 (hex) STUDIO GEN INC.
0040D7 (base 16) STUDIO GEN INC.
3-12-8 TAKANAWA #202

JP

00-40-57 (hex) LOCKHEED - SANDERS
004057 (base 16) LOCKHEED - SANDERS

DANIEL WEBSTER HIGHWAY SOUTH
NASHUA NH 03061-0868
US

00-C0-53 (hex) Aspect Software Inc.
00C053 (base 16) Aspect Software Inc.
6 Technology Park Drive
Westford MA 01886
US

00-C0-CC (hex) TELESCIENCES CO SYSTEMS, INC.
00C0CC (base 16) TELESCIENCES CO SYSTEMS, INC.
351 NEW ALBANY RD.
MOORESTOWN NJ 08057-1177
US

00-C0-D9 (hex) QUINTE NETWORK CONFIDENTIALITY
00C0D9 (base 16) QUINTE NETWORK CONFIDENTIALITY
EQUIPMENT INC.
CANADA K8N 1C3
CA

00-C0-B1 (hex) GENIUS NET CO.
00C0B1 (base 16) GENIUS NET CO.
4F, HANSOO B/D 210-5
SOUTH KOREA
KR

00-C0-D2 (hex) SYNTELLECT, INC.
00C0D2 (base 16) SYNTELLECT,
INC.
15810 N. 28TH AVENUE
PHOENIX AZ 85023
US

00-C0-7E (hex) KUBOTA CORPORATION ELECTRONIC
00C07E (base 16) KUBOTA CORPORATION ELECTRONIC
DEVICE DEPT.
JAPAN #581
JP

00-C0-DD (hex) QLogic Corporation
00C0DD (base 16) QLogic Corporation
6321 Bury Dr.
Eden Prarie MN 55346
US

00-C0-71 (hex) AREANEX COMMUNICATIONS, INC.

00C071 (base 16) AREANEX COMMUNICATIONS, INC.
3333 OCTAVIUS DRIVE UNIT C
SANTA CLARA CA 95051
US

00-C0-C4 (hex) COMPUTER OPERATIONAL
00C0C4 (base 16) COMPUTER OPERATIONAL
REQUIREMENT ANALYSTS LTD
GU12 4LZ GU12 4LZ ENGLAND
GB

00-C0-12 (hex) NETSPAN CORPORATION
00C012 (base 16) NETSPAN CORPORATION
1411 E. CAMPBELL RD
RICHARDSON TX 75081
US

00-40-17 (hex) Silex Technology America
004017 (base 16) Silex Technology America
157 West 7065 South
Salt Lake City UT 84047
US

00-C0-40 (hex) ECCI
00C040 (base 16) ECCI
15070-B
AVENUE OF SCIENCE
SAN DIEGO CA 92128
US

00-C0-1C (hex) INTERLINK COMMUNICATIONS LTD.
00C01C (base 16) INTERLINK COMMUNICATIONS LTD.
BRUNEL ROAD,
ENGLAND
GB

00-C0-96 (hex) TAMURA CORPORATION
00C096 (base 16) TAMURA CORPORATION
COMMUNICATION SYSTEMS DIV.

JP

00-C0-44 (hex) EMCOM CORPORATION
00C044 (base 16) EMCOM CORPORATION
840 AVENUE
PLANO TX 75074
US

00-C0-E6 (hex) Verilink Corporation
00C0E6 (base 16) Verilink Corporation
127 Jetplex Circle
Madison AL 35758
US

00-C0-42 (hex) DATALUX CORP.
00C042 (base 16) DATALUX CORP.
2836 CESSNA DRIVE
WINCHESTER VA 22601
US

00-C0-3F (hex) STORES AUTOMATED SYSTEMS, INC.
00C03F (base 16) STORES AUTOMATED SYSTEMS, INC.
1360 ADAMS ROAD
BENSALEM PA 19020
US

00-C0-36 (hex) RAYTECH ELECTRONIC CORP.
00C036 (base 16) RAYTECH ELECTRONIC CORP.
2F, NO.6, LANE 497
TAIWAN R.O.C.
TW

00-C0-4E
(hex) COMTROL CORPORATION
00C04E (base 16) COMTROL CORPORATION
2675 PATTON ROAD
ST. PAUL MN 55113
US

00-C0-A2 (hex) INTERMEDIUM A/S
00C0A2 (base 16) INTERMEDIUM A/S
ODINSVEJ 19

DK

00-C0-20 (hex) ARCO ELECTRONIC, CONTROL LTD.
00C020 (base 16) ARCO ELECTRONIC, CONTROL LTD.
2750 NORTH 29TH AVE.-STE.#316
HOLLYWOOD FL 33020
US

00-C0-E7 (hex) FIBERDATA AB
00C0E7 (base 16) FIBERDATA AB
P.O. BOX 20095

SE

00-C0-5F (hex) FINE-PAL COMPANY LIMITED
00C05F (base 16) FINE-PAL COMPANY LIMITED
RM. 9, 11F, KINGSFORD IND. CTR
HONG KONG
HK

00-C0-CE (hex) CEI SYSTEMS & ENGINEERING PTE
00C0CE (base 16) CEI SYSTEMS & ENGINEERING PTE
BLK 73 #02-18 AYER RAJAH CRESC
SINGAPORE 0513
SG

00-C0-8E (hex) NETWORK INFORMATION TECHNOLOGY
00C08E (base 16) NETWORK INFORMATION TECHNOLOGY
10430 S. DE ANZA BLVD.
CUPERTINO CA 95014
US

00-C0-C7
(hex) SPARKTRUM MICROSYSTEMS, INC.
00C0C7 (base 16) SPARKTRUM MICROSYSTEMS, INC.
2860 ZANKER ROAD, STE.#210
SAN JOSE CA 95134
US

00-40-F3 (hex) NETCOR
0040F3 (base 16) NETCOR
850 AUBURN COURT
FREMONT CA 94538
US

00-40-4B (hex) MAPLE COMPUTER SYSTEMS
00404B (base 16) MAPLE COMPUTER SYSTEMS
P.O. BOX 10050
CANADA ALA 4L5
CA

00-40-F8 (hex) SYSTEMHAUS DISCOM
0040F8 (base 16) SYSTEMHAUS DISCOM
DISTRIBUTED COMPUTING GMBH

DE

00-40-24 (hex) COMPAC INC.
004024 (base 16) COMPAC INC.
16-7 NIHONBASI HAMACHO 3-CHO

JP

00-40-D2 (hex) PAGINE CORPORATION
0040D2 (base 16) PAGINE CORPORATION
1961-A CONCOURSE DRIVE
SAN JOSE CA 95131
US

00-40-E9 (hex) ACCORD SYSTEMS, INC.
0040E9 (base 16) ACCORD SYSTEMS, INC.
572 VALLEY WAY
MILPITAS CA 95035
US

00-40-33 (hex) ADDTRON TECHNOLOGY CO., LTD.
004033 (base 16) ADDTRON TECHNOLOGY CO., LTD.
46560
FREMONT BLVD. #303
FREMONT CA 94538
US

00-40-AD (hex) SMA REGELSYSTEME GMBH
0040AD (base 16) SMA REGELSYSTEME GMBH
HANNOVERSCHE STR. 1-5

DE

00-40-6D (hex) LANCO, INC.
00406D (base 16) LANCO, INC.
800 WEST AIRPORT FREEWAY
IRVING TX 75062
US

00-40-CD (hex) TERA MICROSYSTEMS, INC.
0040CD (base 16) TERA MICROSYSTEMS, INC.
2500 GREAT AMERICA PARKWAY
SANTA CLARA CA 95054
US

00-40-F5 (hex) OEM ENGINES
0040F5 (base 16) OEM ENGINES
1190 DELL AVENUE, STE.
CAMPBELL CA 95008
US

00-40-AE (hex) DELTA CONTROLS, INC.
0040AE (base 16) DELTA CONTROLS, INC.
13520 78TH AVENUE

CANADA V3W 8J6
CA

00-40-F6 (hex) KATRON COMPUTERS INC.
0040F6 (base 16) KATRON COMPUTERS INC.
4 FL. NO. 2, ALLEY 23
TAIPEI TAIPEI TAIWAN
TW

00-40-86 (hex) MICHELS & KLEBERHOFF COMPUTER
004086 (base 16) MICHELS & KLEBERHOFF COMPUTER
GATHE 117

DE

00-40-92
(hex) ASP COMPUTER PRODUCTS, INC.
004092 (base 16) ASP COMPUTER PRODUCTS, INC.
160 SAN GABRIEL DRIVE
SUNNYVALE CA 94086
US

00-40-68 (hex) EXTENDED SYSTEMS
004068 (base 16) EXTENDED SYSTEMS
6123 NORTH MEEKER AVENUE
BOISE ID 83704
US

00-40-78 (hex) WEARNES AUTOMATION PTE LTD
004078 (base 16) WEARNES AUTOMATION PTE LTD
801 LORONG 7, TOA PAYOH
SINGAPORE 1231
SG

00-40-39 (hex) OPTEC DAIICHI DENKO CO., LTD.
004039 (base 16) OPTEC DAIICHI DENKO CO., LTD.
FIBER OPTICS & TELECOM. DIV.
JAPAN

00-40-79 (hex) JUKO MANUFACTURE COMPANY, LTD.
004079 (base 16) JUKO MANUFACTURE COMPANY, LTD.
FLAT C, 3RD FLOOR, CDW BLDG.
HONG KONG
HK

00-40-59 (hex) YOSHIDA KOGYO K. K.
004059 (base 16) YOSHIDA KOGYO K. K.

TECHNICAL RESEARCH DEPT.
939
JP

00-40-B0 (hex) BYTEX CORPORATION, ENGINEERING
0040B0 (base 16) BYTEX CORPORATION, ENGINEERING
13873 PARK CENTER
ROAD
HERNDON VA 22071
US

00-80-D9 (hex) EMK Elektronik GmbH & Co. KG
0080D9 (base 16) EMK Elektronik GmbH & Co. KG
Obere Bergstrasse 28
75335 Dobel
DE

00-40-F4 (hex) CAMEO COMMUNICATIONS, INC.
0040F4 (base 16) CAMEO COMMUNICATIONS, INC.
71 SPITBROOK ROAD, STE #410
NASHUA NH 030603
US

00-40-B4 (hex) NEXTCOM K.K.
0040B4 (base 16) NEXTCOM K.K.
1-12-1 SHIBUYA

JP

00-40-B9 (hex) MACQ ELECTRONIQUE SA
0040B9 (base 16) MACQ ELECTRONIQUE SA
RUE DE L'AERONEF 2

BE

00-40-BB (hex) GOLDSTAR CABLE CO., LTD.
0040BB (base 16) GOLDSTAR CABLE CO., LTD.
555, HOGYE-DONG, ANYANG-SHI
KOREA
KR

00-40-B1 (hex) CODONICS INC.
0040B1 (base 16) CODONICS INC.
17991 ENGLEWOOD DRIVE
MIDDLEBURG HTS OH 44130
US

00-40-61 (hex) DATATECH ENTERPRISES CO., LTD.

004061 (base 16) DATATECH ENTERPRISES CO., LTD.
(LIN KOU INDUSTRIAL ZONE SEC,4
TAOYUAN COUNTY
TAIWAN R.O.C.
TW

00-00-8C (hex) Alloy Computer Products (Australia) Pty Ltd
00008C (base 16) Alloy Computer Products (Australia) Pty Ltd
Unit 4/585 Blackburn Road
Notting Hill Victoria 3168
AU

00-40-C5 (hex) MICOM COMMUNICATIONS INC.
0040C5 (base 16) MICOM COMMUNICATIONS INC.
4100 LOS ANGELES AVENUE
SIMI VALLEY CA 93063
US

00-40-20 (hex) CommScope Inc
004020 (base 16) CommScope Inc
Unit 1, Kinmel Park
Bodelwyddan RHYL LL18 5TZ
GB

00-40-7F (hex) FLIR Systems
00407F (base 16) FLIR Systems
BOX 3

SE

00-40-95 (hex) R.P.T. INTERGROUPS INT'L LTD.
004095 (base 16) R.P.T. INTERGROUPS INT'L LTD.
9F, 50 MIN CHUAN RD
TAIWAN TAIWAN R.O.C.
TW

00-40-35 (hex) OPCOM
004035 (base 16) OPCOM
1215 W. CROSBY RD.
CARROLLTON TX 75006
US

00-40-5C (hex) FUTURE SYSTEMS, INC.
00405C (base 16) FUTURE SYSTEMS, INC.
ROOM 102 DONG BANG B/D,
SEOUL 130-080
SEOUL 130-080 KOREA
KR

00-40-A0 (hex) GOLDSTAR CO., LTD.
0040A0 (base 16) GOLDSTAR CO., LTD.
6 GA 3B MUNLAE YEONGDEUNGPO
KOREA
KR

00-40-FC (hex) IBR COMPUTER TECHNIK GMBH
0040FC (base 16) IBR COMPUTER TECHNIK GMBH
FRANKFURTER STR. 114
WEST
DE

00-40-DE (hex) Elsag Datamat spa
0040DE (base 16) Elsag Datamat spa
ELSAG S.P.A.
GENOVA 16154
IT

00-40-C9 (hex) NCUBE
0040C9 (base 16) NCUBE
919 EAST HILLSDALE BLVD.
FOSTER CITY CA 94404
US

00-40-03 (hex) Emerson Process Management Power & Water Solutions, Inc.
004003 (base 16) Emerson Process Management Power & Water Solutions, Inc.
200 Beta Drive
PITTSBURGH PA 15238
US

00-40-90 (hex) ANSEL COMMUNICATIONS
004090 (base 16) ANSEL COMMUNICATIONS
1701 JUNCTION COURT
SAN JOSE CA 95112
US

00-40-7C (hex) QUME CORPORATION
00407C (base 16) QUME CORPORATION
500 YOSEMITE DRIVE, M/S-29
MILPITAS
CA 95035-5426
US

00-40-44 (hex) QNIX COMPUTER CO., LTD.
004044 (base 16) QNIX COMPUTER CO., LTD.
8,9F KOREAN TEACHER'S MUT.BLDG
SEOUL KOREA 150-010

KR

00-40-48 (hex) SMD INFORMATICA S.A.
004048 (base 16) SMD INFORMATICA S.A.
LARGO MOVIMENTO DAS FORCAS

PT

00-40-2D (hex) HARRIS ADACOM CORPORATION
00402D (base 16) HARRIS ADACOM CORPORATION
1100 VENTURE COURT
CARROLLTON TX 75006-5412
US

00-80-6F (hex) ONELAN LTD.
00806F (base 16) ONELAN LTD.
P.O. BOX 107
UNITED KINGDOM
GB

00-80-81 (hex) KENDALL SQUARE RESEARCH CORP.
008081 (base 16) KENDALL SQUARE RESEARCH CORP.
170 TRACER LANE
WALTHAM MA 02154-1379
US

00-80-9C (hex) LUXCOM, INC.
00809C (base 16) LUXCOM, INC.
3249 LAURELVIEW COURT
FREMONT CA 94538
US

00-80-65 (hex) CYBERGRAPHIC SYSTEMS PTY LTD.
008065 (base 16) CYBERGRAPHIC SYSTEMS PTY LTD.
290 BURWOOD ROAD

AU

00-80-19
(hex) DAYNA COMMUNICATIONS, INC.
008019 (base 16) DAYNA COMMUNICATIONS, INC.
50 SOUTH MAIN STREET-#530
SALT LAKE CITY UTAH 84144
US

00-80-F3 (hex) SUN ELECTRONICS CORP.
0080F3 (base 16) SUN ELECTRONICS CORP.
250 ASAHI KOCHINO-CHO

483
JP

00-80-99 (hex) Eaton Industries GmbH
008099 (base 16) Eaton Industries GmbH
Hein-Moeller - Straße 7-11

DE

00-80-8D (hex) WESTCOAST TECHNOLOGY B.V.
00808D (base 16) WESTCOAST TECHNOLOGY B.V.
P.O. BOX 3317

NL

00-80-BE (hex) ARIES RESEARCH
0080BE (base 16) ARIES RESEARCH
46791 FREMOND BLVD.
FREMONT CA 94538
US

00-80-15 (hex) SEIKO SYSTEMS, INC.
008015 (base 16) SEIKO SYSTEMS, INC.
8,Nakase 1-chome,Mihama-ku

JP

00-40-DF (hex) DIGALOG SYSTEMS, INC.
0040DF (base 16) DIGALOG SYSTEMS, INC.
3180 SOUTH 166TH STREET
NEW BERLIN WI 53151
US

00-40-09 (hex) TACHIBANA TECTRON CO., LTD.
004009
(base 16) TACHIBANA TECTRON CO., LTD.
SYSTEMATIC EQUIPMENT DIVISION

JP

00-80-D2 (hex) SHINNIHONDENKO CO., LTD.
0080D2 (base 16) SHINNIHONDENKO CO., LTD.
6-8 NISHITENMA 2 CHOME

JP

00-80-89 (hex) TECNETICS (PTY) LTD.
008089 (base 16) TECNETICS (PTY) LTD.

P.O. BOX/POSBUS 56412
SOUTH AFRICA
ZA

00-80-AF (hex) ALLUMER CO., LTD.
0080AF (base 16) ALLUMER CO., LTD.
2-8-8 CHUO-CHO, MEGURO-KU

JP

00-80-84 (hex) THE CLOUD INC.
008084 (base 16) THE CLOUD INC.
CLOUD BLDG.
KOREA
KR

00-80-50 (hex) ZIATECH CORPORATION
008050 (base 16) ZIATECH CORPORATION
3433 ROBERTO COURT
SAN LUIS OBISPO CA 93401
US

00-80-A4 (hex) LIBERTY ELECTRONICS
0080A4 (base 16) LIBERTY ELECTRONICS
332 HARBOR WAY
SOUTH SAN FRANCISCO CA 94080
US

00-80-A6 (hex) REPUBLIC TECHNOLOGY, INC.
0080A6 (base 16) REPUBLIC TECHNOLOGY, INC.
P.O. BOX 141006
AUSTIN
TX 78714
US

00-80-32 (hex) ACCESS CO., LTD.
008032 (base 16) ACCESS CO., LTD.
HIEI-KUDAN BLDG. B1

JP

00-80-CF (hex) EMBEDDED PERFORMANCE INC.
0080CF (base 16) EMBEDDED PERFORMANCE INC.
3385 SCOTT BLVD.
SANTA CLARA CA 95054-3115
US

00-80-90 (hex) MICROTEK INTERNATIONAL, INC.

008090 (base 16) MICROTEK INTERNATIONAL, INC.
3300 NW 211TH TERRACE
HILLSBOR OR 97124-7136
US

00-80-C4 (hex) DOCUMENT TECHNOLOGIES, INC.
0080C4 (base 16) DOCUMENT TECHNOLOGIES, INC.
1300 CHARLESTON ROAD
MOUNTAIN VIEW CA 94043
US

00-80-5B (hex) CONDOR SYSTEMS, INC.
00805B (base 16) CONDOR SYSTEMS, INC.
2133 SAMARILTAN DRIVE
SAN JOSE CA 95124
US

00-80-43 (hex) NETWORLD, INC.
008043 (base 16) NETWORLD, INC.
KANDA 3 AMEREX BLDG.

JP

00-80-52 (hex) TECHNICALLY ELITE CONCEPTS
008052 (base 16) TECHNICALLY ELITE CONCEPTS
2615 PACIFIC COAST HIGHWAY
HERMOSA BEACH
CA 90250
US

00-80-5D (hex) CANSTAR
00805D (base 16) CANSTAR
3900 VICTORIA PARK AVENUE
M2H 3H7
CA

00-80-4F (hex) DAIKIN INDUSTRIES, LTD.
00804F (base 16) DAIKIN INDUSTRIES, LTD.
ELECTRONICS DIVISION
JAPAN 525
JP

00-80-05 (hex) CACTUS COMPUTER INC.
008005 (base 16) CACTUS COMPUTER INC.
1120 METROCREST DRIVE
CARROLLTON TX 75006
US

00-80-6D (hex) CENTURY SYSTEMS CORP.
00806D (base 16) CENTURY SYSTEMS CORP.
2-8-12 MINAMI-CHO
185
JP

00-80-94 (hex) ALFA LAVAL AUTOMATION AB
008094 (base 16) ALFA LAVAL AUTOMATION AB
ADN

SE

00-80-02 (hex) SATELCOM (UK) LTD
008002 (base 16) SATELCOM (UK) LTD
TECHNOLOGY TRANSFER CENTRE
ENGLAND
GB

00-80-64 (hex) WYSE TECHNOLOGY LLC
008064 (base 16) WYSE TECHNOLOGY LLC
3471 NORTH FIRST STREET M/S
SAN JOSE CA 95134
US

00-80-48 (hex) COMPEX INCORPORATED
008048 (base 16) COMPEX INCORPORATED
4055
EAST LA PALMA
ANAHEIM CA 92807
US

00-80-30 (hex) NEXUS ELECTRONICS
008030 (base 16) NEXUS ELECTRONICS
39 SPRINGFIELD ROAD
UNITED KINGDOM
GB

00-00-55 (hex) COMMISSARIAT A L`ENERGIE ATOM.
000055 (base 16) COMMISSARIAT A L`ENERGIE ATOM.
31, RUE DE LA FEDERATION

FR

00-00-41 (hex) ICE CORPORATION
000041 (base 16) ICE CORPORATION
17945 SKYPARK CIRCLE
IRVINE CA 92714
US

00-00-86 (hex) MEGAHERTZ CORPORATION
000086 (base 16) MEGAHERTZ CORPORATION
605 NORTH--5600 WEST
SALT LAKE CITY UT 84116-3738
US

00-00-92 (hex) COGENT DATA TECHNOLOGIES
000092 (base 16) COGENT DATA TECHNOLOGIES
640 MULLIS STREET
FRIDAY HARBOR WA 98250
US

00-80-85 (hex) H-THREE SYSTEMS CORPORATION
008085 (base 16) H-THREE SYSTEMS CORPORATION
100 PARK DRIVE, SUITE 204
NC 27709
US

00-80-4C (hex) CONTEC CO., LTD.
00804C (base 16) CONTEC CO., LTD.
3-9-31,
HIMESATO

JP

00-80-8F (hex) C. ITOH ELECTRONICS, INC.
00808F (base 16) C. ITOH ELECTRONICS, INC.
2505 MCCABE WAY
IRVINE CA 92714
US

00-00-52 (hex) Intrusion.com, Inc.
000052 (base 16) Intrusion.com, Inc.
1101 E. ARAPAHO ROAD
RICHARDSON TX 75081

00-80-FF (hex) SOC. DE TELEINFORMATIQUE RTC
0080FF (base 16) SOC. DE TELEINFORMATIQUE RTC
P.O. BOX 955 PLACE DU PARC
CANADA H2W 2N1

00-80-EE (hex) THOMSON CSF
0080EE (base 16) THOMSON CSF
51 ESPLANADE DU GENERAL

FR

00-80-8E (hex) RADSTONE TECHNOLOGY
00808E (base 16) RADSTONE TECHNOLOGY
WATER LANE, TOWCESTER
ENGLAND
GB

00-80-96 (hex) HUMAN DESIGNED SYSTEMS, INC.
008096 (base 16) HUMAN DESIGNED SYSTEMS, INC.
421 FEHELEY DRIVE
KING OF PRUSSIA PA 19406
US

00-80-DA (hex) Hottinger Brüel & Kjær A/S
0080DA (base 16) Hottinger Brüel & Kjær A/S
Teknikerbyen 28
Virum DK-2830
DK

00-80-3E
(hex) SYNERNETICS
00803E (base 16) SYNERNETICS
85 RANGEWAY ROAD
NORTH BILLERICA MA 01862
US

00-80-0C (hex) VIDECOM LIMITED
00800C (base 16) VIDECOM LIMITED
NEWTOWN ESTATE
ENGLAND
GB

00-80-7D (hex) EQUINOX SYSTEMS INC.
00807D (base 16) EQUINOX SYSTEMS INC.
14260 SW 119TH AVENUE
MIAMI FL 33186
US

00-80-63 (hex) Hirschmann Automation and Control GmbH
008063 (base 16) Hirschmann Automation and Control GmbH
Stuttgarter Straße 45-51
Neckartenzlingen D-72654
DE

00-80-74 (hex) FISHER CONTROLS
008074 (base 16) FISHER CONTROLS
1712 CENTRE CREEK DRIVE

AUSTIN TX 78754
US

00-80-CD (hex) MICRONICS COMPUTER, INC.
0080CD (base 16) MICRONICS COMPUTER, INC.
45365 NORTHPORT LOOP WEST
FREMONT CA 94538
US

00-80-03 (hex) HYTEC ELECTRONICS LTD.
008003 (base 16) HYTEC ELECTRONICS LTD.
5 CRADOCK ROAD
ENGLAND
GB

00-80-C9 (hex) ALBERTA
MICROELECTRONIC CENTRE
0080C9 (base 16) ALBERTA MICROELECTRONIC CENTRE
318, 11315 - 87 AVENUE

CA

00-00-58 (hex) RACORE COMPUTER PRODUCTS INC.
000058 (base 16) RACORE COMPUTER PRODUCTS INC.
2355 SOUTH 1070 WEST
SALT LAKE CITY UT 84119
US

00-80-CE (hex) BROADCAST TELEVISION SYSTEMS
0080CE (base 16) BROADCAST TELEVISION SYSTEMS
P.O. BOX 30816
Utah 84130-0816
US

00-80-1A (hex) BELL ATLANTIC
00801A (base 16) BELL ATLANTIC
N92 W14612 ANTHONY AVENUE
MENOMONEE FALLS WI 53051
US

00-80-DE (hex) GIPSI S.A.
0080DE (base 16) GIPSI S.A.
2,BD VAUBAN - B.P. 268

FR

00-00-0D (hex) FIBRONICS LTD.
00000D (base 16) FIBRONICS LTD.

MATAM TECHNOLOGY CENTER

IL

00-00-0A (hex) OMRON TATEISI ELECTRONICS CO.
00000A (base 16) OMRON TATEISI ELECTRONICS CO.
SECTION NFF, SYSTEM R&D LABS.
KYOTO 617
JP

00-00-24 (hex) CONNECT AS
000024 (base 16) CONNECT
AS
HOERKAER 7-9

DK

00-00-F7 (hex) YOUTH KEEP ENTERPRISE CO LTD
0000F7 (base 16) YOUTH KEEP ENTERPRISE CO LTD
3/F NO. 712 MINTSU E. ROAD
ROC
TW

00-00-C7 (hex) ARIX CORPORATION
0000C7 (base 16) ARIX CORPORATION
ENGINEERING MAIL STOP
SUNNYVALE CA 94089
US

00-00-D1 (hex) ADAPTEC INCORPORATED
0000D1 (base 16) ADAPTEC INCORPORATED
M/S 180
MILPITAS CA 95035
US

00-00-CF (hex) HAYES MICROCOMPUTER PRODUCTS
0000CF (base 16) HAYES MICROCOMPUTER PRODUCTS
(CANADA) LTD.

CA

00-00-EF (hex) KTI
0000EF (base 16) KTI
2157 O'TOOLE AVENUE
SAN JOSE CA 95131
US

00-00-25 (hex) RAMTEK CORP.

000025 (base 16) RAMTEK CORP.
810 W. MAUDE AVENUE
SUNNYVALE CA 94086
US

00-00-76 (hex) ABEKAS VIDEO SYSTEM
000076 (base 16) ABEKAS VIDEO SYSTEM
101 GALVESTON DRIVE
REDWOOD CITY CA 94063
US

00-00-F3 (hex) GANDALF DATA LIMITED
0000F3
(base 16) GANDALF DATA LIMITED
130 COLONNADE ROAD SOUTH

CA

00-00-16 (hex) DU PONT PIXEL SYSTEMS .
000016 (base 16) DU PONT PIXEL SYSTEMS .
MEADLAKE PLACE
ENGLAND
GB

00-00-E2 (hex) ACER TECHNOLOGIES CORP.
0000E2 (base 16) ACER TECHNOLOGIES CORP.
401 CHARCOT AVE.
SAN JOSE CA 95131
US

00-00-E1 (hex) GRID SYSTEMS
0000E1 (base 16) GRID SYSTEMS
47211 LAKEVIEW BOULEVARD
FREMONT CA 94537-5003
US

00-00-67 (hex) SOFT * RITE, INC.
000067 (base 16) SOFT * RITE, INC.
15392 ASSEMBLY LANE, UNIT A
HUNTINGTON BEACH CA 92649
US

00-00-D2 (hex) SBE, INC.
0000D2 (base 16) SBE, INC.
4550 NORTH CANYON ROAD
SAN RAMON CA 94583
US

00-00-BA (hex) SIIG, INC.
0000BA (base 16) SIIG, INC.
6078 STEWART AVENUE
FREMONT CA 94538
US

00-00-81 (hex) Bay Networks
000081 (base 16) Bay Networks
PO Box 58185
Santa Clara CA 95052-8185
US

00-00-29
(hex) IMC NETWORKS CORP.
000029 (base 16) IMC NETWORKS CORP.
16931 MILLIKEN AVE.
IRVINE CA 92714-5013
US

00-00-37 (hex) OXFORD METRICS LIMITED
000037 (base 16) OXFORD METRICS LIMITED
UNIT 8, 7 WEST WAY,
UNITED KINGDOM
GB

00-00-FB (hex) RECHNER ZUR KOMMUNIKATION
0000FB (base 16) RECHNER ZUR KOMMUNIKATION
BITZENSTR. 11

DE

00-00-AF (hex) Canberra Industries, Inc.
0000AF (base 16) Canberra Industries, Inc.
800 Research Parkway
Meriden CT 06450
US

08-00-82 (hex) VERITAS SOFTWARE
080082 (base 16) VERITAS SOFTWARE
4800 GREAT AMERICA PARKWAY
SANTA CLARA CA 95054
US

08-00-80 (hex) AES DATA INC.
080080 (base 16) AES DATA INC.
1900 MINNESOTA COURT
CANADA L5N L5N 3C9
CA

08-00-7B (hex) SANYO ELECTRIC CO. LTD.
08007B (base 16) SANYO ELECTRIC CO. LTD.
1-18-13 HASHIRIDANI
OSAKA 573
JP

08-00-7C (hex) VITALINK COMMUNICATIONS
CORP.
08007C (base 16) VITALINK COMMUNICATIONS CORP.
48761 KATO ROAD
FREMONT CA 94538
US

00-00-B0 (hex) RND-RAD NETWORK DEVICES
0000B0 (base 16) RND-RAD NETWORK DEVICES
ATIDIM TECHNOL'CL BLDG. 1

IL

00-00-2A (hex) TRW - SEDD/INP
00002A (base 16) TRW - SEDD/INP
1800 GLENN CURTISS STREET
CARSON CA 90746
US

00-00-2C (hex) AUTOTOTE LIMITED
00002C (base 16) AUTOTOTE LIMITED
100 BELLEVUE ROAD
NEWARK DELAWARE 19714
US

08-00-77 (hex) TSL COMMUNICATIONS LTD.
080077 (base 16) TSL COMMUNICATIONS LTD.
THE LANDSBURY ESTATE
ENGLAND
GB

08-00-74 (hex) CASIO COMPUTER CO. LTD.
080074 (base 16) CASIO COMPUTER CO. LTD.
3-2-1 SAKAE-CHO
190-11
JP

08-00-6E (hex) MASSCOMP
08006E (base 16) MASSCOMP
ONE TECHNOLOGY PARK
WESTFORD MA 01886

US

08-00-68 (hex) RIDGE COMPUTERS
080068 (base 16) RIDGE COMPUTERS
2451 MISSION COLLEGE BLVD.
SANTA
CLARA CA 95054
US

08-00-63 (hex) PLESSEY
080063 (base 16) PLESSEY
PLESSEY - UK LIMITED
JAMAICA NY 11434
US

08-00-60 (hex) INDUSTRIAL NETWORKING INC.
080060 (base 16) INDUSTRIAL NETWORKING INC.
3990 FREEDOM CIRCLE
SANTA CLARA CA 95050
US

00-00-6C (hex) Private
00006C (base 16) Private

00-00-A9 (hex) NETWORK SYSTEMS CORP.
0000A9 (base 16) NETWORK SYSTEMS CORP.
7600 BOONE AVENUE NORTH
MINNEAPOLIS MN 55428-1099
US

08-00-8E (hex) Tandem Computers
08008E (base 16) Tandem Computers
14231 Tendem Blvd.
Austin TX 78728 - 6610
US

08-00-84 (hex) TOMEN ELECTRONICS CORP.
080084 (base 16) TOMEN ELECTRONICS CORP.
1-1 UCHISAIWAI-CHO 2CHOME

JP

08-00-85 (hex) ELXSI
080085 (base 16) ELXSI
2334 LUNDY PLACE
SAN JOSE CA 95131
US

00-00-DF (hex) BELL & HOWELL PUB SYS DIV
0000DF (base 16) BELL & HOWELL PUB SYS DIV
OLD MANSFIELD ROAD
WOOSTER
OH 44691-9050
US

00-00-F9 (hex) QUOTRON SYSTEMS INC.
0000F9 (base 16) QUOTRON SYSTEMS INC.
5454 BEETHOVEN ST.
LOS ANGELES CA 90066
US

08-00-55 (hex) STANFORD TELECOMM. INC.
080055 (base 16) STANFORD TELECOMM. INC.
1221 CROSSMAN
SUNNYVALE CA 94089
US

08-00-53 (hex) MIDDLE EAST TECH. UNIVERSITY
080053 (base 16) MIDDLE EAST TECH. UNIVERSITY
DEPARTMENT OF
ANKARA
TR

08-00-44 (hex) DAVID SYSTEMS INC.
080044 (base 16) DAVID SYSTEMS INC.
615 TASMAN DRIVE
SUNNYVALE CA 94088
US

08-00-41 (hex) RACAL-MILGO INFORMATION SYS..
080041 (base 16) RACAL-MILGO INFORMATION SYS..
400 EMBASSY ROW
ATLANTA GA 30328
US

08-00-35 (hex) MICROFIVE CORPORATION
080035 (base 16) MICROFIVE CORPORATION
3560 HYLAND AVENUE
COSTA MESA CA 92626
US

08-00-32 (hex) TIGAN INCORPORATED
080032 (base 16) TIGAN INCORPORATED
4020 FABIAN WAY
PALO ALTO CA 94303
US

08-00-30
(hex) CERN
080030 (base 16) CERN
CH-1211
GENEVE SUISSE/SWITZ 023
CH

08-00-8D (hex) XYVISION INC.
08008D (base 16) XYVISION INC.
101 EDGEWATER DRIVE
WAKEFIELD MA 01880
US

08-00-4C (hex) HYDRA COMPUTER SYSTEMS INC.
08004C (base 16) HYDRA COMPUTER SYSTEMS INC.
12 MERCER ROAD
NATICK MA 01760
US

08-00-47 (hex) SEQUENT COMPUTER SYSTEMS INC.
080047 (base 16) SEQUENT COMPUTER SYSTEMS INC.
15450 S.W. KOLL PARKWAY .
BEAVERTON OR 97006
US

08-00-4A (hex) BANYAN SYSTEMS INC.
08004A (base 16) BANYAN SYSTEMS INC.
135 FLANDERS ROAD
WESTBORO MA 01581
US

08-00-0B (hex) UNISYS CORPORATION
08000B (base 16) UNISYS CORPORATION
TOWNSHIP LINE ROAD
BLUE BELL PA 19424
US

00-DD-01 (hex) UNGERMANN-BASS INC.
00DD01 (base 16) UNGERMANN-BASS INC.
3900 FREEDOM CIRCLE
SANTA CLARA CA 95054
US

08-00-8A (hex) PerfTech, Inc.
08008A (base 16) PerfTech,
Inc.
613 NW Loop 410

SAN ANTONIO TX 78216
US

00-DD-06 (hex) UNGERMANN-BASS INC.
00DD06 (base 16) UNGERMANN-BASS INC.
3900 FREEDOM CIRCLE
SANTA CLARA CA 95054
US

02-BB-01 (hex) OCTOTHORPE CORP.
02BB01 (base 16) OCTOTHORPE CORP.
285 WEST GREEN STREET
PASADENA CA 91105
US

08-00-66 (hex) AGFA CORPORATION
080066 (base 16) AGFA CORPORATION
200 BALLARDVALE STREET
WILMINGTON MA 01887
US

00-00-00 (hex) XEROX CORPORATION
000000 (base 16) XEROX CORPORATION
M/S 105-50C
WEBSTER NY 14580
US

08-00-21 (hex) 3M COMPANY
080021 (base 16) 3M COMPANY
Telecom Division
Austin TX 78726-9000
US

02-60-86 (hex) LOGIC REPLACEMENT TECH. LTD.
026086 (base 16) LOGIC REPLACEMENT TECH. LTD.
14 ARKWRIGHT ROAD
UNITED KINGDOM
GB

F8-21-11 (hex) HMD Global Oy
F82111 (base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo 02600
FI

EC-91-61 (hex) CLOUD
NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
EC9161 (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.

B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

08-00-15 (hex) STC BUSINESS SYSTEMS
080015 (base 16) STC BUSINESS SYSTEMS
HOLBROOK HOUSE
UNITED KINGDOM
GB

08-00-42 (hex) MACNICA, Inc.
080042 (base 16) MACNICA, Inc.
1-6-3 Shin-Yokohama
Kohoku-ku Yokohama 222-8561
JP

AA-00-03 (hex) DIGITAL EQUIPMENT CORPORATION
AA0003 (base 16) DIGITAL EQUIPMENT CORPORATION
LKG 1-2/A19
LITTLETON MA 01460-1289
US

00-DD-02 (hex) UNGERMANN-BASS INC.
00DD02 (base 16) UNGERMANN-BASS INC.
3900 FREEDOM CIRCLE
SANTA CLARA CA 95054
US

00-DD-04 (hex) UNGERMANN-BASS INC.
00DD04 (base 16) UNGERMANN-BASS INC.
3900 FREEDOM CIRCLE
SANTA CLARA CA 95054
US

00-01-C8 (hex) CONRAD CORP.
0001C8 (base 16) CONRAD
CORP.

08-00-3F (hex) FRED KOSCHARA ENTERPRISES
08003F (base 16) FRED KOSCHARA ENTERPRISES

C0-D6-0A (hex) Texas Instruments

C0D60A (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

28-83-C9 (hex) Apple, Inc.
2883C9 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

18-3F-70 (hex) Apple, Inc.
183F70 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

7C-49-CF (hex) eero inc.
7C49CF (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

00-00-3E (hex) SIMPACT
00003E (base 16) SIMPACT
9210 SKY PARK COURT
SAN DIEGO CA 92123
US

E8-51-9E (hex) Guangzhou Shiyuan Electronic Technology Company Limited
E8519E (base 16) Guangzhou Shiyuan Electronic Technology Company Limited
No.6, 4th Yunpu Road, Yunpu industry District
Guangzhou Guangdong 510530
CN

DC-A0-D0 (hex) Amazon
Technologies Inc.
DCA0D0 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

F0-2F-9E (hex) Amazon Technologies Inc.
F02F9E (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

40-36-68 (hex) E&B TELECOM
403668 (base 16) E&B TELECOM
55, Heungan-daero 439beon-gil, Dongan-gu, anyang-si
Gyeonggi-do 14059
KR

A4-F6-E8 (hex) Apple, Inc.
A4F6E8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

64-41-E6 (hex) Apple, Inc.
6441E6 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

70-BB-5B (hex) Apple, Inc.
70BB5B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

74-0E-A4 (hex) Apple, Inc.
740EA4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

60-57-C8 (hex) Apple, Inc.
6057C8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D4-41-3F
(hex) Gen IV Technology LLC
D4413F (base 16) Gen IV Technology LLC
5239 Muhlhauser Road
West Chester OH 45011
US

D0-D7-BE (hex) HUAWEI TECHNOLOGIES CO.,LTD
D0D7BE (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

20-6B-F4 (hex) Huawei Device Co., Ltd.
206BF4 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

E8-2B-C5 (hex) Huawei Device Co., Ltd.
E82BC5 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

44-A0-38 (hex) Huawei Device Co., Ltd.
44A038 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

F8-6D-CC (hex) Wistron Neweb Corporation
F86DCC (base 16) Wistron Neweb Corporation
No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu R.O.C.
308
TW

58-D8-A7 (hex) Bird Home Automation GmbH
58D8A7 (base 16) Bird Home Automation GmbH
Uhlandstr. 165
Berlin Berlin 10719
DE

3C-CD-73 (hex) Nebula Electronic Technology Corporation
3CCD73 (base 16) Nebula Electronic Technology Corporation
Room 1002, No.570 ShengXia RD, Pudong district, Shanghai
Shanghai 201210
CN

08-27-6B (hex) Huawei Device Co., Ltd.
08276B (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

3C-13-BB (hex) HUAWEI TECHNOLOGIES CO.,LTD
3C13BB (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808

CN

34-5E-E7 (hex) Hangzhou ChengFengErLai Digial Technology Co.,Ltd.
345EE7 (base 16) Hangzhou ChengFengErLai Digial Technology Co.,Ltd.
9th Floor, Building 1, No. 48 Haoshantou South, Chonghua Village, Pingyao Town, Yuhang District, Hangzhou City, Zhejiang
Province
Hangzhou 311100
CN

CC-36-CF (hex) Cisco Systems, Inc
CC36CF (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

C8-9C-BB (hex) Taicang T&W Electronics
C89CBB (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

EC-B1-E0 (hex) Eltex Enterprise LTD
ECB1E0 (base 16) Eltex Enterprise LTD
Timiryazeva street, 17
Almaty 050040
KZ

B4-00-16 (hex) INGENICO TERMINALS SAS
B40016 (base 16) INGENICO TERMINALS SAS
13-17 Rue Pagès
Suresnes 92150
FR

10-1E-DA (hex) INGENICO TERMINALS SAS
101EDA (base 16) INGENICO TERMINALS SAS
13-17 Rue Pagès
Suresnes 92150
FR

44-D4-7F (hex) INGENICO TERMINALS SAS
44D47F (base 16) INGENICO TERMINALS SAS
13-17 Rue Pagès
Suresnes 92150
FR

54-B8-74 (hex) GD Midea Air-Conditioning Equipment Co.,Ltd.
54B874 (base 16) GD Midea Air-Conditioning Equipment

Co.,Ltd.
Midea Global Innovation Center,Beijiao Town,Shunde
Foshan Guangdong 528311
CN

48-63-45 (hex) Huawei Device Co., Ltd.
486345 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

64-51-F4 (hex) Huawei Device Co., Ltd.
6451F4 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C4-57-81 (hex) Wingtech Group (HongKong) Limited
C45781 (base 16) Wingtech Group (HongKong) Limited
FLAT/RM 1903 19/F PODIUM PLAZA5HANOI ROAD TSIM SHA TSUIHong Kong
Hong Kong 999077
HK

F4-DD-06 (hex) Samsung Electronics Co.,Ltd
F4DD06 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

4C-60-BA (hex) AltoBeam Inc.
4C60BA (base 16) AltoBeam Inc.
B808, Tsinghua Tongfang Hi-Tech Plaza, Haidian
Beijing Beijing 100083
CN

18-5D-6F (hex) N3com
185D6F
(base 16) N3com
18/5 Prospekt Andropova, room 13/9
Moscow 115432
RU

30-C9-22 (hex) Espressif Inc.
30C922 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

70-90-41 (hex) Mist Systems, Inc.
709041 (base 16) Mist Systems, Inc.
1601 South De Anza Blvd, Suite 248
Cupertino CA 95014
US

94-A4-B5 (hex) Mitsubishi Electric Corporation
94A4B5 (base 16) Mitsubishi Electric Corporation
2-7-3 Marunouchi, Chiyoda-ku
Tokyo 100-8310
JP

24-2D-6C (hex) eero inc.
242D6C (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

78-59-94 (hex) Alif Semiconductor, Inc.
785994 (base 16) Alif Semiconductor, Inc.
7901 Stoneridge Drive STE300
Pleasanton CA 94588
US

C4-95-5F (hex) Anhui Saida Technology Limited Liability Company
C4955F (base 16) Anhui Saida Technology Limited Liability Company
3rd
Floor, Building A4, Phase I, Zhongan Chuanggu Science and Technology Park, No. 900, Wangjiang West Road, High-tech Zone
Hefei Anhui 230000
CN

14-CB-49 (hex) Habolink Technology Co.,LTD
14CB49 (base 16) Habolink Technology Co.,LTD
Rm1304 , Block A7, Chuangzhiyuncheng Bldg, Xili Street,Nanshan District
Shenzhen Guangdong 518000
CN

CC-1B-5A (hex) Ruckus Wireless
CC1B5A (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

18-31-4F (hex) AIDIN ROBOTICS
18314F (base 16) AIDIN ROBOTICS
12-20, SIMIN-DAERO 327BEON-GIL,
ANYANG-SI GYEONGGI-DO 14055

KR

68-1D-4C (hex) eSystems MTG GmbH
681D4C (base 16) eSystems MTG GmbH
Bahnhofstraße 100
Wendlingen 73240
DE

38-90-AF (hex) zte corporation
3890AF (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

18-79-FD (hex) zte corporation
1879FD (base
16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

0C-67-43 (hex) HUAWEI TECHNOLOGIES CO.,LTD
0C6743 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F4-79-46 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F47946 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

64-A4-44 (hex) Loongson Technology Corporation Limited
64A444 (base 16) Loongson Technology Corporation Limited
Loongson Industrial Park, building 2 , Zhongguancun Environmental protection park, Haidian District
Beijing 100095
CN

70-48-B5 (hex) CTS System Co., LTD.
7048B5 (base 16) CTS System Co., LTD.
345, Bucheon-ro
Bucheon-si Kyeonggi-do 14521
KR

30-B8-51 (hex) Siemens AG
30B851 (base 16) Siemens AG
Werner-von-Siemens-Str. 50

Amberg
92224
DE

78-0B-8C (hex) Private
780B8C (base 16) Private

94-33-D8 (hex) Cisco Systems, Inc
9433D8 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

FC-D5-86 (hex) Shenzhen SuperElectron Technology Co.,Ltd.
FCD586 (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen Guangdong 518000
CN

84-0A-9E (hex) Nexapp Technologies Pvt Ltd
840A9E (base 16) Nexapp Technologies Pvt Ltd
403, 4th floor, S.NO 577/A/1 Suyog Center, Gultekadi, Pune, Maharashtra 411037, India
Pune Maharashtra Pune 411037
IN

D0-6B-78 (hex) Apple, Inc.
D06B78 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

0C-53-B7 (hex) Apple, Inc.
0C53B7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

7C-F3-4D (hex) Apple, Inc.
7CF34D (base 16) Apple,
Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-0F-2C (hex) Lantronix
000F2C (base 16) Lantronix
Bldg 1, Suite 235
Austin TX 78730

US

E8-CB-F5 (hex) Laird Connectivity
E8CBF5 (base 16) Laird Connectivity
3F.-1, No.145, Xianzheng 9th Rd.,
Zhubei 30251
TW

D8-02-C0 (hex) Extreme Networks Headquarters
D802C0 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

0C-DC-91 (hex) Amazon Technologies Inc.
0CDC91 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

54-F0-B1 (hex) Aruba, a Hewlett Packard Enterprise Company
54F0B1 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

98-1C-42 (hex) LAIIER
981C42 (base 16) LAIIER
98 Commercial Street
London E1 6LZ
GB

58-35-0F (hex) EM Microelectronic
58350F (base 16) EM Microelectronic
Rue des
Sors 3
Marin-Epagnier Neuchatel 2074
CH

70-BC-48 (hex) Cisco Systems, Inc
70BC48 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A0-BC-6F (hex) Cisco Systems, Inc
A0BC6F (base 16) Cisco Systems, Inc
80 West Tasman Drive

San Jose CA 94568
US

B0-8D-57 (hex) Cisco Systems, Inc
B08D57 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

18-93-41 (hex) Intel Corporate
189341 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

DC-45-46 (hex) Intel Corporate
DC4546 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

30-67-A1 (hex) Sagemcom Broadband SAS
3067A1 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

D0-1B-F4 (hex) Sagemcom Broadband SAS
D01BF4 (base 16) Sagemcom Broadband SAS
250, route de
l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

78-BB-C1 (hex) SERVERCOM (INDIA) PRIVATE LIMITED
78BBC1 (base 16) SERVERCOM (INDIA) PRIVATE LIMITED
E-43/1 OKHLA INDUSTRIAL AREA PHASE-II NEW DELHI SOUTH DELHI
NEW DELHI NA
IN

E4-BC-96 (hex) Versuni
E4BC96 (base 16) Versuni
Tussendiepen 4a
Drachten 9206 AD
NL

AC-A0-9D (hex) Juniper Networks
ACA09D (base 16) Juniper Networks

1133 Innovation Way
Sunnyvale CA 94089
US

E8-1C-BA (hex) Fortinet, Inc.
E81CBA (base 16) Fortinet, Inc.
899 Kifer Road
Sunnyvale 94086
US

E0-23-FF (hex) Fortinet, Inc.
E023FF (base 16) Fortinet, Inc.
899 Kifer Road
Sunnyvale 94086
US

E8-ED-D6 (hex) Fortinet, Inc.
E8EDD6 (base 16) Fortinet, Inc.
899 Kifer Road
Sunnyvale 94086
US

CC-BC-2B (hex) Huawei Device Co., Ltd.
CCBC2B (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan
Guangdong 523808
CN

94-CE-0F (hex) Huawei Device Co., Ltd.
94CE0F (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

88-3F-27 (hex) Huawei Device Co., Ltd.
883F27 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

24-E2-9D (hex) Huawei Device Co., Ltd.
24E29D (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

D0-C7-30 (hex) zte corporation

D0C730 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

C0-2B-56 (hex) CANDID OPTRONIX PRIVATE LIMITED
C02B56 (base 16) CANDID OPTRONIX PRIVATE LIMITED
C-1 to C-6, C-65 to C-71, SIGADDI GROWTH CENTRE, VILLAGE KISHAN DEVPUR, Kotdwara, Pauri Garhwal
Kotdwara Uttarakhand 246149
IN

24-59-E5 (hex) GD
Midea Air-Conditioning Equipment Co.,Ltd.
2459E5 (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
Midea Global Innovation Center,Beijiao Town,Shunde
Foshan Guangdong 528311
CN

DC-97-BA (hex) Intel Corporate
DC97BA (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

A0-D3-65 (hex) Intel Corporate
A0D365 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

2C-20-80 (hex) Huawei Device Co., Ltd.
2C2080 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

B4-02-F2 (hex) Synaptics, Inc
B402F2 (base 16) Synaptics, Inc
1251 McKay Drive
San Jose CA 95131-1709
US

20-C7-92 (hex) Wuhan Maiwe communication Co.,Ltd
20C792 (base 16) Wuhan Maiwe communication Co.,Ltd
Building 2,Area E, Phase ii, Optical valley core center, No.52, Liufang road, East Lake Hi-tech Development Zone,Wuhan,China
Wuhan Hubei 430000

CN

A0-2D-DB (hex) Sagemcom Broadband SAS
A02DDB (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

74-4D-DC (hex) Sonim Technologies, Inc
744DDC (base 16) Sonim Technologies, Inc
4445 Eastgate Mall,Suite 200
San Diego CA 92121
US

B8-A1-4A (hex) Raisecom Technology CO., LTD
B8A14A (base 16) Raisecom Technology CO., LTD
No. 11, East Area, No. 10 Block, East Xibeiwang Road
Beijing 100094
CN

3C-6D-66 (hex) NVIDIA Corporation
3C6D66 (base 16) NVIDIA Corporation
2701 San Tomas Expressway
Santa Clara CA 95050
US

74-D5-C6 (hex) Microchip Technologies Inc
74D5C6 (base 16) Microchip Technologies Inc
2355 W Chandler Blvd
Chandler 85224-6199
US

BC-09-EB (hex) TECNO MOBILE LIMITED
BC09EB (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE,
HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

84-B4-D2 (hex) Shenzhen iComm Semiconductor CO.,LTD
84B4D2 (base 16) Shenzhen iComm Semiconductor CO.,LTD
Room 601,Block B ,Digital Building,Garden City
Shenzhen No.1079 Nanhai Road,Nanshan District 518067
CN

38-A7-46 (hex) COMPAL INFORMATION (KUNSHAN) CO., LTD.
38A746 (base 16) COMPAL INFORMATION (KUNSHAN) CO., LTD.
NO. 25, THE 3RD Street KUNSHAN EXPORT PROCESSING ZON

KUNSHAN SUZHOU 215300
CN

6C-E2-D3 (hex) New H3C Technologies Co., Ltd
6CE2D3 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

5C-64-0F (hex) Sage Technologies Inc.
5C640F (base 16) Sage Technologies Inc.
Room L308-02, #238, Donglan Road, Minhang Dist.
Shanghai Shanghai 201102
CN

5C-16-7D (hex) HUAWEI TECHNOLOGIES CO.,LTD
5C167D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2
Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

50-E4-52 (hex) Chipsea Technologies (Shenzhen) Corp.
50E452 (base 16) Chipsea Technologies (Shenzhen) Corp.
3 / F, Block A, Building 2, Shenzhen Bay Innovation Technology Center, No.3156 keyuan South Road, Yuehai Street, Nanshan District, Shenzhen
Shenzhen Guangdong 518000
CN

DC-C4-9C (hex) Samsung Electronics Co.,Ltd
DCC49C (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A4-A4-90 (hex) Samsung Electronics Co.,Ltd
A4A490 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B8-A8-25 (hex) Samsung Electronics Co.,Ltd
B8A825 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F0-A8-82 (hex) shenzhen trolink Technology Co.,Ltd

F0A882 (base 16) shenzhen trolink Technology Co.,Ltd
F/5 Building -E ,Fenda
Hight Technology Park,Sanwei Hangcheng Street,Bao'an ,Shenzhen
shenzhen gangdong 518101
CN

10-32-2C (hex) Murata Manufacturing Co., Ltd.
10322C (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

CC-F9-F0 (hex) Samsung Electronics Co.,Ltd
CCF9F0 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

E4-C7-70 (hex) Raisecom Technology CO., LTD
E4C770 (base 16) Raisecom Technology CO., LTD
No. 11, East Area, No. 10 Block, East Xibeiwang Road
Beijing 100094
CN

F4-42-50 (hex) Bouffalo Lab (Nanjing) Co., Ltd.
F44250 (base 16) Bouffalo Lab (Nanjing) Co., Ltd.
5F, Gongxiang Space, No.100 Tuanjie Road, Nanjing, China
Nanjing Jiangsu 211800
CN

BC-62-CE (hex) Netis Technology Co., Ltd.
BC62CE (base 16) Netis Technology Co., Ltd.
8 Floor, Bd B, information port, Langshan RD, Nanshan district,
Shenzhen
Guangdong 518057
CN

E4-BE-ED (hex) Netis Technology Co., Ltd.
E4BEED (base 16) Netis Technology Co., Ltd.
ORIENTAL CYBERPORT,HIGHTECH 6 ROAD
Shenzhen 518057
CN

00-72-63 (hex) Netis Technology Co., Ltd.
007263 (base 16) Netis Technology Co., Ltd.
ORIENTAL CYBERPORT,HIGHTECH 6 ROAD
Shenzhen 518057
CN

E0-67-B3 (hex) Shenzhen C-Data Technology Co., Ltd.
E067B3 (base 16) Shenzhen C-Data Technology Co., Ltd.
#201, Building A4, Nanshan Zhiyuan, No.1001, Xueyuan Avenue, Changyuan Community,Taoyuan,Nanshan
Shenzhen Guangdong 518055
CN

70-A5-6A (hex) Shenzhen C-Data Technology Co., Ltd.
70A56A (base 16) Shenzhen C-Data Technology Co., Ltd.
#201, Building A4, Nanshan Zhiyuan, No.1001, Xueyuan Avenue, Changyuan Community,Taoyuan,Nanshan
Shenzhen Guangdong 518055
CN

EC-64-C9 (hex) Espressif Inc.
EC64C9 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai
Shanghai 201203
CN

F0-F5-BD (hex) Espressif Inc.
F0F5BD (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

DC-8E-8D (hex) Netis Technology Co., Ltd.
DC8E8D (base 16) Netis Technology Co., Ltd.
No.6 tongjiu road,Pingxiang Economic and Technological Development District
Pingxiang Jiangxi 337099
CN

98-D7-E1 (hex) Cisco Systems, Inc
98D7E1 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

F8-39-18 (hex) Cisco Systems, Inc
F83918 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

84-B1-E2 (hex) Microsoft Corporation
84B1E2 (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052

US

F8-42-88 (hex) Apple, Inc.
F84288 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

FC-34-E2 (hex) Shenzhen YOUHUA Technology Co., Ltd
FC34E2 (base
16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

60-0F-6B (hex) Apple, Inc.
600F6B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

4C-97-CC (hex) Apple, Inc.
4C97CC (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

88-B7-EB (hex) Apple, Inc.
88B7EB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

10-A2-D3 (hex) Apple, Inc.
10A2D3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

48-84-9D (hex) Texas Instruments
48849D (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

34-EE-16 (hex) Apple, Inc.
34EE16 (base 16) Apple, Inc.
1 Infinite Loop

Cupertino CA 95014
US

C0-3F-BB (hex) Zhongshan Zhiniu Electronics Co.,Ltd.
C03FBB (base 16) Zhongshan Zhiniu Electronics Co.,Ltd.
2nd
Floor,Building B,No.15-1,Xinggang South Road,Gangkou Town,Zhongshan City,Guangdong Province
Zhongshan 528400
CN

44-F9-71 (hex) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
44F971 (base 16) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
6th Floor, South Section, Building 23, Keyuan West, NO.1 Kezhi West Road, Science and Technology Community, Yuehai Street, Nanshan District
Shenzhen Guangdong 518057
CN

38-6B-1C (hex) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
386B1C (base 16) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
6th Floor, South Section, Building 23, Keyuan West, NO.1 Kezhi West Road, Science and Technology Community, Yuehai Street, Nanshan District
Shenzhen Guangdong 518057
CN

50-89-65 (hex) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
508965 (base 16) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
6th Floor, South Section, Building 23, Keyuan West, NO.1
Kezhi West Road, Science and Technology Community, Yuehai Street, Nanshan District
Shenzhen Guangdong 518057
CN

34-96-77 (hex) zte corporation
349677 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

24-75-FC (hex) zte corporation
2475FC (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

5C-57-9E (hex) Chiun Mai Communication System, Inc
5C579E (base 16) Chiun Mai Communication System, Inc
No.4, MingSheng St. TUCheng District New Taipei City, 23679 TW
New Taipei City 23679
TW

44-1A-84 (hex) Quectel Wireless Solutions Co.,Ltd.
441A84 (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

8C-6F-B9 (hex) Silicon Laboratories
8C6FB9 (base 16) Silicon Laboratories
400 West Cesar
Chavez
Austin TX 78701
US

14-2D-41 (hex) Silicon Laboratories
142D41 (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

04-87-27 (hex) Silicon Laboratories
048727 (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

28-76-81 (hex) Silicon Laboratories
287681 (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

30-FB-10 (hex) Silicon Laboratories
30FB10 (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

70-54-64 (hex) Silicon Laboratories
705464 (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

B4-3A-31 (hex) Silicon Laboratories
B43A31 (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701

US

4C-5B-B3 (hex) Silicon Laboratories
4C5BB3 (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

94-B2-16
(hex) Silicon Laboratories
94B216 (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

8C-65-A3 (hex) Silicon Laboratories
8C65A3 (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

28-F8-C6 (hex) IEEE Registration Authority
28F8C6 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

C8-8A-D8 (hex) CHINA DRAGON TECHNOLOGY LIMITED
C88AD8 (base 16) CHINA DRAGON TECHNOLOGY LIMITED
B4 Building,No.3 First industrial Zone,Nanpu Road,Lao Community,Xinqian Street,Baoan District,Shenzhen,City
ShenZhen 518100
CN

18-CA-A7 (hex) zte corporation
18CAA7 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

94-40-F3 (hex) HUAWEI TECHNOLOGIES CO.,LTD
9440F3 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology
Park
Dongguan 523808
CN

D0-58-AB (hex) Mara Tech LLC
D058AB (base 16) Mara Tech LLC

Unit 1200101 NE 3rd Ave,
Fort Lauderdale FL 33301
US

40-6F-27 (hex) HUAWEI TECHNOLOGIES CO.,LTD
406F27 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D4-87-CC (hex) Sivantos GmbH
D487CC (base 16) Sivantos GmbH
Henri-Dunant-Strasse 100
Erlangen Bavaria 91058
DE

00-33-58 (hex) Ruckus Wireless
003358 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

B4-4C-90 (hex) Cisco Systems, Inc
B44C90 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E0-4C-12 (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
E04C12 (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China
401120
CN

64-4E-EB (hex) Daikin Holdings Singapore Pte Ltd
644EEB (base 16) Daikin Holdings Singapore Pte Ltd
10 ANG MO KIO INDUSTRIAL PARK 2SINGAPORE
Singapore Singapore 569501
SG

24-E8-CE (hex) Qingdao Haier Technology Co.,Ltd
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Found in path(s):
* /opt/cola/permits/2034537904_1717102564.4588194/0/netaddr-netaddr-1-3-0-0-g85a7b25-tar-gz/netaddr-netaddr-1e20a33/netaddr/eui/oui.txt
No license file was found, but licenses were detected in source scan.

Here are the copyright notices applicable to the netaddr library.

---
netaddr

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* /opt/cola/permits/2034537904_1717102564.4588194/0/netaddr-netaddr-1-3-0-0-g85a7b25-tar-gz/netaddr-netaddr-1e20a33/COPYRIGHT.rst
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netaddr is written by David P. D. Moss and currently maintained by Jakub Stasiak.

It is released under the BSD License.

Many people further contributed to netaddr by reporting problems, suggesting
various improvements or submitting actual code. Here is a list of these people
(in alphabetical order). Help me keep it complete and free of errors.

Vincent Bernat <bernat AT debian.org>

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Thanks to everyone on the netaddr mailing list, those who raised bug reports
and to all those who have, directly and indirectly, guided and influenced the
development and distribution of this library.

Thanks also for the use of the following code contributions :-

a) Python Cookbook recipe 18.11: "Formatting Integers as Binary Strings"

Python Cookbook 2d ed. (O'Reilly Media 2005) ISBN 0596-00797-3
Alex Martelli, Anna Martelli Ravenscroft and David Ascher

b) ASPN Cookbook Recipe 466286: "Integer set type" by Heiko Wundram

http://code.activestate.com/recipes/466286/

And last but not least, thanks to Guido van Rossum for his encouraging words
and for giving us all Python.

Found in path(s):
* /opt/cola/permits/2034537904_1717102564.4588194/0/netaddr-netaddr-1-3-0-0-g85a7b25-tar-gz/netaddr-netaddr-1e20a33/THANKS.rst
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.. currentmodule:: netaddr

NEXT_NETADDR_VERSION

Date: not released yet

Release: 1.3.0

Date: 2024-05-28

Added:

* Add partial address expansion in :class:`IPNetwork` via the ``expand_partial`` switch,
 this enables opting into pre-1.1.0 behavior

Fixed:

* Fix running the test suite on musl systems
* Fix :class:`IPAddress` IPv6 parsing with :data:`ZEROFILL` enabled
* Fix handling of the :data:`NOHOST` flag in the :class:`IPNetwork` copy constructor

---
Release: 1.2.1

Date: 2024-02-17

Fixed:

* Fix bad version 1.2.0 upload to PyPI – now yanked. No changes to the package.

Release: 1.2.0

Date: 2024-02-17

Added:

* Add CLI tool subcommand to display :ref:`cli-network-info`.

Changed:

* Support running :ref:`interactive-shell` without IPython installed.

Fixed:

* Explicitly raise ``TypeError``
 is a non-string value is passed to :func:`valid_ipv4`
 or :func:`valid_ipv6`.

Release: 1.1.0

Date: 2024-02-15

Added:

* Add the required Python version to the package metadata (GH :issue:`365`).
* Add :func:`expand_partial_ipv4_address` to the public API.

Fixed:

* Fix ``IPNetwork(...) in IPRange(...)`` false negatives (GH :issue:`157`).
* Fix a few :class:`IPNetwork` slicing edge cases (GH :issue:`214`).
* Fix support for partial IP addresses accidentally left in :class:`IPNetwork` in 1.0.0.

When I removed the ``implicit_prefix`` switch I missed the fact that there was some
partial IPv4 address expansion triggered unconditionally.

If you need the old behavior use :func:`expand_partial_ipv4_address`.

Related GH issue: :issue:`110`.
* Fixed an incorrect license classifier in the package metadata.

Release: 1.0.0

Date: 2024-02-10

Removed:

* Drop support for Python versions lower than 3.7.
* Remove the
flag shorthands: ``N``, ``P`` and ``Z``. Use :data:`NOHOST`, :data:`INET_PTON`
and :data:`ZEROFILL` instead.
* Remove abbreviated CIDR format support in :class:`IPNetwork` (``implicit_prefix=True``),
use :func:`cidr_abbrev_to_verbose` if you need this behavior.
* Remove the ``IPAddress.is_private`` method.

There are more precise replacements for subset of the addresses that used to handled by ``is_private``:

* :meth:`IPAddress.is_link_local`
* :meth:`IPAddress.is_ipv4_private_use`
* :meth:`IPAddress.is_ipv6_unique_local`
* :meth:`IPAddress.is_global`

The following address blocks used to be handled by ``is_private`` have no dedicated
convenience methods and you'll have to handle them manually or request a method
addition:

* ``100.64.0.0/10`` – Shared Address Space
* ``192.0.0.0/24`` – IETF Protocol Assignments (watch out – there are exceptions in there)

* ``198.18.0.0/15`` – Benchmarking
* ``239.0.0.0``-``239.255.255.255`` – ``240.0.0.0/4`` is Reserved,
``239.0.0.0/8`` – unclear

Changed:

* Stop accepting leading zeros when parsing IPv4 addresses in :data:`INET_PTON` mode
(it's been allowed on some platforms).

If you need to allow and discard leading zeros use the :data:`ZEROFILL` flag.

This change will affect implicit conversions from ``str`` in all relevant contexts. If you need
to control the IPv4 parsing mode construct :class:`IPAddress` objects explicitly.
* Stop parsing IPv4 addresses permissively (``inet_aton()``-like) by default.

:data:`INET_PTON` is the default mode.

If you need to be permissive and parse using ``inet_aton()`` semantics use the
:data:`INET_ATON` flag.

This change will affect implicit conversions from ``str`` in all relevant contexts. If you
need to control the IPv4 parsing mode construct :class:`IPAddress` objects explicitly.
* Apply the two changes above to :func:`valid_ipv4` as well.
* Update the address databases to the 2024-02-10 versions.

Fixed:

* Return ``False`` instead of raising
:exc:`AddrFormatError` when an empty string is passed
to :func:`valid_ipv4` or :func:`valid_ipv6`.
* Fix handling of ``dialect`` provided to :class:`EUI` during copy-construction.

Release: 0.10.1

Date: 2024-01-02

Fixed:

* Get rid of some warnings

Deprecated:

* Deprecate the flag shorthands: ``N``, ``P`` and ``Z``. Use :data:`NOHOST`, :data:`INET_PTON`
and :data:`ZEROFILL` instead.
* Deprecate importing objects from ``netaddr`` subpackages. Only importing things from the
top-level ``netaddr`` namespace is supported, everything else is considered private.

This has already been the case but we can use a reminder.
* Deprecate permissive-by-default IPv4 parsing in :func:`valid_ipv4`. The ``inet_pton()``
semantics (with leading zeros always disallowed) will become the default. Use :data:`INET_ATON`
and/or :data:`ZEROFILL` flags if you need the legacy behavior.

Release: 0.10.0

Date: 2023-12-31

Added:

*
Add an :data:`INET_ATON` flag to explicitly request ``inet_aton()`` IPv4 parsing semantics
from :class:`IPAddress`.
* Add an :meth:`IPAddress.is_ipv4_private_use` convenience method.
* Add an :meth:`IPAddress.is_global` convenience method to allow determining if an address is
considered globally reachable.
* Add an :meth:`IPAddress.is_ipv6_unique_local` convenience method.

Fixed:

* Improve Python 3.13 compatibility, thank you John Eckersberg.

Deprecated:

* Deprecate Python 3.7 support.
* Deprecate abbreviated CIDR format support in :class:`IPNetwork`
(``implicit_prefix=True``).
* Deprecate accepting leading zeros when parsing IPv4 addresses in :data:`INET_PTON` mode
(it's been allowed on some platforms).

If you need to allow and discard leading zeros use the :data:`ZEROFILL` flag.

This change will affect implicit conversions from ``str`` in all relevant contexts. If you need
to control the IPv4 parsing mode construct :class:`IPAddress` objects explicitly.
* Deprecate
parsing IPv4 addresses permissively (``inet_aton()``-like) by default.

:data:`INET_PTON` will become the default mode.

If you need to be permissive and parse using ``inet_aton()`` semantics use the
:data:`INET_ATON` flag.

This change will affect implicit conversions from ``str`` in all relevant contexts. If you need
to control the IPv4 parsing mode construct :class:`IPAddress` objects explicitly.

* Deprecate the ``IPAddress.is_private`` method. Migration instructions in the documentation.

Other:

* Raise an exception if invalid flags are passed to ``IPAddress``, ``IPNetwork`` or ``IPRange``.
* Improve the documentation substantially.
* Update the DB files to the latest versions (2023-12-23).

Release: 0.9.0

Date: 2023-09-18

Added:

* Add hash capabilities to OUI (#225, amitmi704)

Fixed:

* **Backwards incompatible:** Handle RFC 6164 IPv6 addresses (don't reserve first IP address in point-to-point subnets) ($267, Damien Claisse)
* **Technically backwards incompatible:** Fix for is_loopback behaviour – consider ``IPNetwork('::1/128')`` to be loopback (#222, #223, niels)
* Include tutorials in source distributions (#215, Louis Sautier)
* Fix a documentation typo (#242, Wouter)
* Fix print syntax in the documentation to be Python 3 compatible (#221, François Magimel)
* Fix the Sphinx syntax in the documentation (#220, François Magimel)

Other:

* Update the databases (#266, Jakub Stasiak)
* Deprecate Python 3.6 (#263, Jakub Stasiak)
* Eliminate unnecessary evals (#228, KOLANICH)

Release: 0.8.0

Date: 3 Jul 2020

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Changes since 0.7.20
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* Fixed weak reference support in classes with ``__slots__``
* Added ``__bytes__`` to ``IPAddress`` for intuitive usage, thanks to Michael Belousov.

* Added ``format()`` function to EUI, thanks to Omer Anson.
* Added ``IPNetwork.netmask`` property setter, thanks to Naveen Nathan.
* Added support for IABs in the ``40:D8:55``
 OUI, thanks to Brian Maissy.
* Drastically optimized ``spanning_cidr()``, thanks to Brian Maissy.
* Fixed ``"x.x.x.x/x" in IPNetwork`` tests, thanks to xpac1985.
* Added support for passing iterables of ``IPRange`` to ``IPSet`` and ``cidr_merge()``, based
 on a patch by Henry Stern.

^^^

* Stopped manually replacing shebang of an included script.
* Stopped using __file__ in all code that's expected to run in environments that don't support it
(like PyOxidizer-produced binaries).
* Updated all databases included in the package.

^^^

* removed bundled pytest dependency code for "python setup.py test".

* setup.py now uses setuptools only (no more distutils) and setup_egg.py removed.

* cleaned up INSTALL docs so they accurately reflect current Python packaging.

* fixed broken parsing, generating and reading of IEEE index files when switching
 between Python 2.x and 3.x.

^^
Specific bug fixes addressed in this release
^^

FIXED
 Issue 133: https://github.com/drkjam/netaddr/issues/133
   - Splitting a single network into multiple prefixed networks

FIXED Issue 129: https://github.com/drkjam/netaddr/issues/129
   - fix IPAddress().netmask_bits to return 0 for 0.0.0.0 and [::] addresses

FIXED Issue 117: https://github.com/drkjam/netaddr/issues/117
   - (python setup.py test) failing with python3 >= 3.5

FIXED Issue 137: https://github.com/drkjam/netaddr/issues/137
   - API reference is broken on ReadTheDocs

FIXED Issue 143: https://github.com/drkjam/netaddr/issues/143
   - Please refresh the bundled IANA and IEEE databases

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Miscellanea
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- Goodbye to NYSE Euronext (good times), hello Intercontinental Exchange ...

Release: 0.7.18

Date: 4 Sep 2015

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Changes since 0.7.17
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* cidr_merge() algorithm is now O(n) and much faster.
 Thanks to Anand Buddhdev (aabdnn)
 and Stefan Nordhausen (snordhausen).

* nmap target specification now fully supported including IPv4 CIDR
 prefixes and IPv6 addresses.

^^^

FIXED Issue 109: https://github.com/drkjam/netaddr/issues/109
  - Identify registry of global IPv6 unicast allocations

FIXED Issue 108: https://github.com/drkjam/netaddr/issues/108
  - One part of docs unclear?

FIXED Issue 106: https://github.com/drkjam/netaddr/issues/106
  - Eui64 Updated (pull request for Issue 105)

FIXED Issue 105: https://github.com/drkjam/netaddr/issues/105
  - Support dialects for EUI-64 addresses

FIXED Issue 102: https://github.com/drkjam/netaddr/issues/102
  - 0.7.15 tarball is missing tests.

FIXED Issue 96: https://github.com/drkjam/netaddr/issues/96
  - Wrong hosts and broadcasts for /31 and
 /32 networks.

Release: 0.7.15

Date: 29 Jun 2015

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Changes since 0.7.14
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* Fix slowness in IPSet.__contains__. Thanks to novas0x2a for noticing.

* Normalize IPNetworks when they are added to an IPSet

* Converted test suite to py.test

^^^
Specific bug fixes addressed in this release
^^^

FIXED Issue 98: https://github.com/drkjam/netaddr/issues/98
  - Convert test suite to py.test

FIXED Issue 94: https://github.com/drkjam/netaddr/issues/94
  - IPSet.__contains__ is about 40 times slower than the equivalent IPRange

FIXED Issue 95: https://github.com/drkjam/netaddr/issues/95
  - Inconsistent Address Handling in IPSet

Release: 0.7.14

Date: 31st Mar 2015

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Changes since 0.7.13
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* Fix weird build breakage in 0.7.13 (wrong Python path, incorrect OUI DB).

*
 EUI, OUI, and IAB objects can now be compared with strings. You can do
   my_mac = EUI("11:22:33:44:55:66")
   my_mac == "11:22:33:44:55:66"
   and Python will return True on the "==" operator.

* Implement the "!=" operator for OUI and IAB under Python2. It was already
   working under Python3.

* 64 bit EUIs could only be created from strings with "-" as a separator.
   Now, ":" and no separator are supported, which already worked for 48 bit EUIs.

^^
Specific bug fixes addressed in this release
^^

FIXED Issue 80: https://github.com/drkjam/netaddr/pull/80
   - Compare L2 addresses with their representations

FIXED Issue 81: https://github.com/drkjam/netaddr/issues/81
   - OUI database tests fail in 0.7.13

FIXED Issue 84: https://github.com/drkjam/netaddr/issues/84
   - Incorrect python executable path in netaddr-0.7.13-py2.py3-none-any.whl

FIXED Issue 87: https://github.com/drkjam/netaddr/pull/87
    - Handle eui64 addresses with colon as a delimiter and without delimiter.

Release: 0.7.13

Date: 31st Dec 2014

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Changes since 0.7.12
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* IPAddress objects can now be added to/subtracted from each other

^^
Specific bug fixes addressed in this release
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FIXED Issue 73: https://github.com/drkjam/netaddr/issues/73
  - Adding IP Addresses

FIXED Issue 74: https://github.com/drkjam/netaddr/issues/74
  - compute static global ipv6 addr from the net prefix and mac address

FIXED Issue 75: https://github.com/drkjam/netaddr/issues/75
  - add classifiers for python 3.3 and 3.4 support

Release: 0.7.12

Date: 6th Jul 2014

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Changes since 0.7.11
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* Added method IPSet.iter_ipranges().

* bool(IPSet()) works now for large IPSets, e.g. IPSet(['2405:8100::/32']).

*
 IPNetwork.iter_hosts now skips the subnet-router anycast address for IPv6.

* Removed function fbsocket.inet_aton because it is unused and unnecessary

^^
Specific bug fixes addressed in this release
^^

FIXED Issue 69: https://github.com/drkjam/netaddr/issues/69
  - Add __nonzero__ method to IPSet

FIXED Pull Request 68: https://github.com/drkjam/netaddr/pull/68
  - Fixed a bug related to allowing ::0 during iter_hosts for v6

FIXED Issue 67: https://github.com/drkjam/netaddr/issues/67
  - Remove function fbsocket.inet_aton

FIXED Pull Request 66: https://github.com/drkjam/netaddr/pull/66
  - Added Function to create list of IPRange for non-contiguous IPSet

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Release: 0.7.11

Date: 19th Mar 2014

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Changes since 0.7.10
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* Performance of IPSet increased dramatically, implemented by
  Stefan Nordhausen and Martijn van
 Oosterhout. As a side effect,
  IPSet(IPNetwork("10.0.0.0/8")) is now as fast as you'd expect.

* Various performance improvements all over the place.

* netaddr is now hosted on PyPI and can be installed via pip.

* Doing "10.0.0.42" in IPNetwork("10.0.0.0/24") works now.

* IPSet has two new methods: iscontiguous() and iprange(), thanks to Louis des Landes.

* Re-added the IPAddress.netmask_bits() method that was accidentally removed.

* Networks 128.0.0.0/16, 191.255.0.0/16, and 223.255.255.0/24 are not marked as
  reserved IPv4 addresses any more. Thanks to marnickv for pointing that out.

* Various bug fixes contributed by Wilfred Hughes, 2*yo and Adam Goodman.

^^
Specific bug fixes addressed in this release
^^

FIXED Issue 58: https://github.com/drkjam/netaddr/issues/58

  - foo.bar doesn't throw AddrFormatError

FIXED Issue 57: https://github.com/drkjam/netaddr/issues/57

  - netaddr
 packages not hosted on PyPI

FIXED Issue 56: https://github.com/drkjam/netaddr/issues/56

  - Fix comparison with large IPSet()

FIXED Issue 55: https://github.com/drkjam/netaddr/pull/55

- Fix smallest_matching_cidr and all_matching_cidrs

FIXED Issue 53: https://github.com/drkjam/netaddr/issues/53

- Exclude 128.0.0.0/16 and possibly others from reserved range set?

FIXED Issue 51: https://github.com/drkjam/netaddr/issues/51

- Encoding errors in netaddr/eui/oui.txt

FIXED Issue 46: https://github.com/drkjam/netaddr/issues/46

- len(IPSet()) fails on python3

FIXED Issue 43: https://github.com/drkjam/netaddr/issues/43

- Method to check if IPSet is contiguous

FIXED Issue 38: https://github.com/drkjam/netaddr/issues/38

- netmask_bits is missing from the IPAddress

FIXED Issue 37: https://github.com/drkjam/netaddr/issues/37

- Test failures with Python 3.3

Release: 0.7.10

Date: 6th Sep 2012

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Changes
 since 0.7.9
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* A bunch of Python 3.x bug fixes. Thanks Arfrever.

* Extended nmap support to cover full target specification.

^^^
Specific bug fixes addressed in this release
^^^

FIXED Issue 36 - https://github.com/drkjam/netaddr/issues/36

- ResourceWarnings with Python >=3.2

FIXED Issue 35 - https://github.com/drkjam/netaddr/issues/35

- netaddr-0.7.9: Test failure with Python 3

FIXED Issue 34 - https://github.com/drkjam/netaddr/issues/34

- netaddr.ip.iana.SaxRecordParser.endElement() incompatible with Python 3.1

FIXED Issue 33 - https://github.com/drkjam/netaddr/issues/33

- netaddr script not installed with Python 3

FIXED Issue 23 - https://github.com/drkjam/netaddr/issues/23

- valid_nmap_range() does not validate nmap format case.

FIXED Issue 22 - https://github.com/drkjam/netaddr/issues/22

- all_matching_cidrs: documentation incorrect

Release: 0.7.9

Date:
 28th Aug 2012

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Changes since 0.7.8
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* Re-release to fix build removing Sphinx dependency.

Release: 0.7.8

Date: 28th Aug 2012

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Changes since 0.7.7
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* New SAX parser for IANA data source files (contributed by Andrew Stromnov)

* Fixed pickling failures with EUI, OUI and IAB classes.

^^^

Specific bug fixes addressed in this release
^^

FIXED Issue 31 - https://github.com/drkjam/netaddr/issues/31

- Exclude '39.0.0.0/8' network from reserved set. Thanks Andrew Stromnov

FIXED Issue 28 - https://github.com/drkjam/netaddr/issues/28

- Fix algorithm in ipv6_link_local to fully conform to rfc4291. Thanks Philipp Wollermann

FIXED Issue 25 - https://github.com/drkjam/netaddr/issues/25

- install_requires is too aggressive? Thanks Adam Lindsay and commenters.

FIXED Issue 21
- https://github.com/drkjam/netaddr/issues/21

- deepcopy for EUI fails. Thanks Ryan Nowakowski.

Release: 0.7.7

Date: 30th May 2012

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Changes since 0.7.6
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* Comprehensive documentation update! It's only taken 4 years
 to get around to using Sphinx and I can confirm it is
 TOTALLY AWESOME!

* Various bug fixes

* Refreshed IEEE OUI and IAB data

^^
Specific bug fixes addressed in this release
^^

FIXED Issue 24 - https://github.com/drkjam/netaddr/issues/24

- Fixed TypeError when comparing BaseIP instance with non-BaseIP objects. Thanks pvaret

FIXED Issue 17 - https://github.com/drkjam/netaddr/issues/17

- For large ipv6 networks the .subnet() method fails. Thanks daveyss

FIXED Issue 20 - https://github.com/drkjam/netaddr/issues/20

- Test failure with Python 3. Thanks Arfrever

Release: 0.7.6

Date:
13th Sep 2011

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Changes since 0.7.5
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* A bug fix point release

* Refreshed 3rd party data caches

* Tested against Python 3.2.x and PyPy 1.6.x

* Fixed unit tests under for Mac OSX

^^
Specific bug fixes addressed in this release
^^

FIXED Issue 15 - https://github.com/drkjam/netaddr/issues/15

- Incorrect and invalid glob produced when last octet is not *

FIXED Issue 13 - https://github.com/drkjam/netaddr/issues/13

- Added support for IPython 0.11 API changes. Thanks juliantaylor

FIXED Issue 11 - https://github.com/drkjam/netaddr/issues/11

- Calling valid_glob on cidr raises ValueError. Thanks radicand

FIXED Issue 7 - https://github.com/drkjam/netaddr/issues/7

- Unpickling Bug in IPSet. Thanks LuizOz and labeneator

FIXED Issue 2 - https://github.com/drkjam/netaddr/issues/2

- UnboundLocalError raised in IPNetwork constructor.
Thanks keesbos

^^^^^^^^^^^^
Miscellanea
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- Has a famous soft drink company started making it own NICs?

Release: 0.7.5

Date: 5th Oct 2010

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Changes since 0.7.4
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* Python 3.x is now fully supported. The paint is still drying on this so
 please help with testing and raise bug tickets when you find any issues!
 New Issue Tracker - https://github.com/drkjam/netaddr/issues

* Moved code hosting to github. History ported thanks to svn2git.
 - (https://github.com/nirvdrum/svn2git)

* All netaddr objects now use approx. 65% less memory due to the use of
 __slots__ in classes throughout the codebase. Thanks to Stefan Nordhausen
 and his Python guru for this suggestion!

* Applied many optimisations and speedups throughout the codebase.

* Fixed the behaviour of the IPNetwork constructor so it now behaves in
 a much more sensible and expected way (i.e. no longer uses inet_aton
 semantics which is just
 plain odd for network addresses).

* One minor change to behaviour in this version is that the .value property
 on IPAddress and IPNetwork objects no longer support assignment using a
 string IP address. Only integer value assignments are now valid. The impact
 of this change should be minimal for the majority of users.

^^
Specific bug fixes addressed in this release
^^

FIXED Issue 49 - http://code.google.com/p/netaddr/issues/detail?id=49

 - Incorrect IP range recognition on IPs with leading zeros

FIXED Issue 50 - http://code.google.com/p/netaddr/issues/detail?id=50

- CIDR block parsing

FIXED Issue 52 - http://code.google.com/p/netaddr/issues/detail?id=52

- ipv6 cidr matches incorrectly match ipv4 [sic]

FIXED Issue 53 - http://code.google.com/p/netaddr/issues/detail?id=53

- Error in online documentation

FIXED Issue 54 - http://code.google.com/p/netaddr/issues/detail?id=54

- IP recognition failure

FIXED Issue 55 - http://code.google.com/p/netaddr/issues/detail?id=55

- Support for Python 3.x

FIXED Issue 56 - http://code.google.com/p/netaddr/issues/detail?id=56

- checking IPAddress in IPNetwork

FIXED Issue 57 - http://code.google.com/p/netaddr/issues/detail?id=57

- netaddr objects can't pickle

FIXED Issue 58 - http://code.google.com/p/netaddr/issues/detail?id=58

- IPSet operations should accept the same arguments as IPAddress

FIXED Issue 59 - http://code.google.com/p/netaddr/issues/detail?id=59

- netaddr fails to load when imported by a PowerDNS coprocess

^^^^^^^^^^^
Miscellanea
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- Welcome back to standards.ieee.org which seems to have been down for weeks!

- Goodbye Sun Microsystems + Merrill Lynch, hello Oracle + Bank of America ...

Release: 0.7.4

Date: 2nd Dec 2009

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Changes since 0.7.3
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* Applied speed patches by S. Nordhausen

* Fixed
 an inconsistency between EUI and IPAddress interfaces. Made
 EUI.packed and EUI.bin properties (previously methods) and added a
 words() property.

Release: 0.7.3

Date: 14th Sep 2009

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Changes since 0.7.2
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* Added __add__, __radd__, __sub__, __rsub__ operators to the IPAddress class.

* Added support for validation and iteration of simple nmap style IPv4 ranges
 (raised in Issue 46).

* Removed some unused constants from fallback socket module.

^^
Specific bug fixes addressed in this release
^^

FIXED Issue 44 - http://code.google.com/p/netaddr/issues/detail?id=44

 - int/long type error

FIXED Issue 46 - http://code.google.com/p/netaddr/issues/detail?id=46

 - Question about IPv4 ranges

FIXED Issue 47 - http://code.google.com/p/netaddr/issues/detail?id=47

 - IPNetwork cannot be evaluated as a boolean when it has a large
 size

Release: 0.7.2

Date: 20th Aug 2009

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Changes since 0.7.1
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FIXED a boundary problem with the iter_iprange() generator function
 and all associated calls to it throughout the codebase, including
 unit test coverage and adjustments.

* Replaced regular expressions in cidr_merge() with pre-compiled equivalents
 for a small speed boost.

* Adjustments to README raised by John Eckersberg.

^^
Specific bug fixes addressed in this release
^^

FIXED Issue 43 - http://code.google.com/p/netaddr/issues/detail?id=43

  - IPNetwork('0.0.0.0/0') not usable in for loop

Release: 0.7.1

Date: 14th Aug 2009

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Changes since 0.7
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* Renamed the netaddr shell script from 'nash' to plain 'netaddr'. This
 is to avoid a potentially nasty clash with an important Linux tool
 with the same
 name.

 Thanks to John Eckersberg for spotting this one early!

* Updated IANA and IEEE data files with latest versions.

^^
Specific bug fixes addressed in this release
^^

FIXED Issue 42 - http://code.google.com/p/netaddr/issues/detail?id=42

  - Bug in cidr_merge() function when passed the CIDRs 0.0.0.0/0 and/or ::/0

Release: 0.7

Date: 11th Aug 2009

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Changes since 0.6.x
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Please Note - This release represents a major overhaul of netaddr. It breaks backward compatibility with previous releases. See the API documentation for full details of what is available.

Some highlights of what has changed :-

* Internal module hierarchy has been completely overhauled and redesigned. This fixes up a lot of inconsistencies and problems with interdependent imports. All public classes, objects, functions and constants are still published via the main netaddr module namespace as in previous releases.

* No more AT_* and ST_* 'constants'.

* The Addr base class is gone. This removes the link between EUI and IP functionality so the library is can now easily be split into distinct units without many interdependencies between layer 2 and layer 3 functionality.

* The use of custom descriptor classes has been completely discontinued.

* Strategy classes and singleton objects have been replaced with a group of strategy modules in their own netaddr.strategy namespace. Each IP or EUI address object now holds a reference to a module rather than a singleton object.

* Many operations that were previously static class methods are now presented as functions in the relevant modules. See the API documentation for details.

* The IP and CIDR classes have been replaced with two new classes called IPAddress and IPNetwork respectively. This name change is important as the IP part of netaddr has been completed redesigned. The notion of an individual IP address and an IP network or subnet has been made more obvious. IPAddress objects are now true scalars and do not evaluate in a list or tuple context. They also do not support any notion of a netmask or CIDR prefix; this is the primary function of an IPNetwork object.

* Arbitrary IP ranges and are still supported but a lot of their functionality has also been exposed via handy functions.

* IP globbing routines (previous known as Wildcards) have been moved into their own submodule.

* Added a new IPSet class which fully emulates mutable Python sets. This replaces a lot of half-baked experimental classes found in 0.5.x and 0.6.x such as IPRangeSet and CIDRGroup. See documentation for details.

* All methods and properties that previously used or supported the 'fmt' formatting property no longer do so. In all cases, objects are now returned to correctly support pass through calls without side effects. It is up to the user to extract
data in the right format from the objects IPAddress objects
returned as required.

* Unit tests have been completed re-written to support docstring style tests bundled into test suites. These are handy as they double up as documentation being combined with wiki syntax. Implemented code coverage checking using coverage 3.x.

* nash - a nascent shell like tool for the netaddr library (requires IPython).

* Support for RFC 1924 added ;-)

^^^

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FIXED Issue 38 - http://code.google.com/p/netaddr/issues/detail?id=38

- Feature request: Addr.__nonzero__

FIXED Issue 39 - http://code.google.com/p/netaddr/issues/detail?id=39

- CIDR.abbrev_to_verbose() not applying implicit classful netmask rules consistently

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Release: 0.6.2

Date: 13th Apr 2009

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Changes since 0.6.1
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* Refreshed IEEE and IANA data files with latest revisions from their respective URLs.

- IANA IPv4 Address Space Registry (last updated 2009-03-11)

- Internet Multicast Addresses (last updated 2009-03-17)

- IEEE OUI and IAB files (last updated 2009-04-13)

* Added get_latest_files() functions to both the netaddr.eui and netaddr.ip modules to assist in automating release builds.

^^
Specific bug fixes addressed in this release
^^

FIXED Issue 32 - http://code.google.com/p/netaddr/issues/detail?id=32

- Addr.__ne__ returns wrong answer

Release: 0.6.1

Date: 6th Apr 2009

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Changes since 0.6
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* Added COPYRIGHT file with details and attribution for all 3rd party files bundled with netaddr.

* Minimum Python version required is now 2.4.x changed from 2.3.x.

- Python 2.3 compatibility code in many sections of code have been removed.

- the @property and @staticmethod decorators are now used throughout the code along with the reversed() and sorted() builtin iterators.

- A specific version check has also been added that will raise RuntimeError exceptions if you run netaddr on a Python interpreter version < 2.4.x.

* Integer addresses passed to the IP() and EUI() constructors no longer require a mandatory second address type (AT_*) argument in most cases. This is now only really required to disambiguate between IPv4/IPv6 addresses with the same numerical value. The same behaviour applies to EUI-48/EUI-64 identifiers. A small speed boost is achieved if the 2nd address type argument is explicitly provided.

* IPv6 addresses returned by EUI.ipv6_link_local() now always have a subnet prefix of /64.

* Default sort order of aggregate classes (IPRange, CIDR and Wildcard) has been changed (again). They now sort initially by first address and then by network block size from largest to smallest which feels more natural.

* Fixed a bug in the CIDR.abbrev_to_verbose() static method where IPv4 addresses with 4 octets (i.e. non-partial addresses) were being assigned subnet prefixes using abbreviated rules. All complete IPv4 addresses should always get a /32 prefix where it is not explicitly provided.

* Abbreviated address expansion in the CIDR constructor is now optional and can be controlled by a new 'expand_abbrev' boolean argument.

* Added the new CIDR.summarize() static method which transforms lists of IP addresses and CIDRs into their most compact forms. Great for trimming down large ad hoc address lists!

* Added the previous() and next() methods to the CIDR classes which return the CIDR subnets either side of a given CIDR that are of the same size. For the CIDR 192.0.2.0/24, previous will return 192.0.1.0/24 and next will return 192.0.3.0/24. Also accepts and optional step size (default is 1).

* Added the supernet() method to the CIDR class which returns a generator

of
all the subnets that contain the current CIDR found by decrementing the
prefixlen value for each step until it reaches zero.

* Changed the way the fallback code works when the socket module is missing
important constants and functions.

* Removed the uppercase options from the Strategy constructors and internals
as this behaviour can be easily replicated using the word_fmt option
instead and requires less code (word_fmt='%X').

^^^

- netaddr.eui

Currently contains IEEE OUI and IAB classes and lookup code.

- netaddr.ip

Currently contains IANA IPv4, IPv6 and IPv4 multicast lookup code.

- netaddr.core

Currently contains only a couple of classes that are shared between code in netaddr.eui and netaddr.ip.

Please Note: This change is part of a two stage internal restructuring of netaddr. In future releases, layer-2 MAC/EUI functionality will be separated from and layer-3 IP, CIDR and Wildcard functionality. All shared code will be moved to netaddr.core. When the migration is complete
(expected in 0.7)
the netaddr.address and netaddr.strategy namespaces will be removed. Please endeavour to access everything you need via the top-level netaddr namespace from this release onwards. See netaddr.__all__ for details of constants, objects, classes and functions intended for the public interface.

* Addition of IEEE and IANA informational lookups

- the IP() and EUI() classes now have an additional info() method through which contextual information about your addresses can be accessed. This data is published by IANA and the IEEE respectively and sourced directly from text files bundled with netaddr that are available for download publicly online. Details are available in the docstring of the relevant parsing classes. Subsequent netaddr releases will endeavour to keep up-to-date with any updates to these files.

- the EUI() class has been updated with the addition of the OUI() and IAB() classes. They provide object based access
to returned via the EUI.info()
method. Please see API docs included with netaddr for details.

- added new NotRegisteredError exception that is raised when an EUI doesn't match any currently registration entries in the IEEE registry files.

* Addr() class removed from the public interface

- This class is only ever meant to be used internally and its usage may soon be deprecated in favour converting it into an abstract base class in future releases.

* Deletion of AddrRange() class

- replaced with the more specific IPRange() class. AddrRange() wasn't very useful in practice. Too much time has been spent explaining its theoretical merits over its actual practicality for every day use.

* Addition of new IPRange() class

- the new base class for CIDR() and Wildcard().

- a 'killer feature' of this new class are the new methods iprange(), cidrs() and wildcard() which allow you to use and switch between all 3 formats easily. IPRange('x', 'y').cidrs() is particularly useful returning all the intervening CIDRs between 2 arbitrary IP addresses.

- IPRange() is a great place to expose several new methods available to sub classes. They are issupernet(), issubnet(), adjacent() and overlaps().

- previous method called data_flavour() has been renamed (again) to a more suitable format().

* IP() class updates

- is_netmask() and is_hostmask() methods have been optimised and are now both approximately 4 times faster than previously!

- added wildcard() and iprange() methods that return pre-initialised objects of those classes based on the current netmask / subnet prefix.

- copy constructor methods ipv4() and ipv6() now preserve the value of the prefixlen property now also support IPv6 options for returning IPv4-mapped or IPv4-compatible IPv6 addresses.

- added new methods is_loopback(), is_private(), is_link_local(), is_ipv4_mapped() and is_ipv4_compat() which are all self explanatory.

- added a bin() method which provides an IP address in the same format as the standard Python bin() builtin type ('0bxxx') now available in Python 2.6.x and higher.

- added a packed() method which provides an IP address in packed binary string format, suitable for passing directly to Python socket calls.

* nrange() generator function updates

- by default this now returns IP() objects instead of Addr() objects.

* CIDR() class updates

- the 'strict_bitmask' option in the CIDR class constructor has been had a name change and is now just 'strict' (less typing).

- support for Cisco ACL-style (hostmask) prefixes. Also available to the IP() class. They are converted to their netmask equivalents before being applied to the base address.

- added a new subnet() generator method that returns iterators to subnet CIDRs found within the current CIDR object's boundaries e.g. a /24 CIDR can provide address with subnet prefixes
between a /25 and /32.

- added a new span() method which takes a list of IP, IPRange, CIDR and/or Wildcards returning a single CIDR that 'spans' the lowest and highest boundary addresses. An important property of this class is that only a single CIDR is returned and that it (potentially) overlaps the start and end addresses. The most important aspect of this method is that it identifies the left-most set of bits that are common to all supplied addresses. It is the plumbing that makes a lot of other features function correctly.

- although IPv6 doesn't support the concept of a broadcast address, after some pondering I've decide to add network() and broadcast() methods to the CIDR class. It is an interface quirk that users expect so it has been added for ease of use.

- the methods network(), broadcast(), hostmask() and netmask() have been wrapped in property() builtin calls to make them appear as read-only properties.

*
Many more MAC and IPv4 string address representation are now supported

- Improvements to both EUI and IP classes. They now accept many more valid address formats than previously. Thanks for all the bugs tickets raised.

* ``__repr__()`` method behaviour change

- Using ``repr()`` now assume that you have performed a ``from netaddr import *`` before you execute them. They no longer specify the originating namespace of objects which is a bit unnecessary and a lot to read on-screen.They will also be moving around within the namespace shortly anyway so its best not to think of them as being anywhere other than directly below netaddr itself.

* 'klass' property renamed to 'fmt' (format)

- now referred to as the 'format callable' property. An unfortunately but necessary change. 'klass' was a bad initial name choice as it most often doesn't even reference a class object also supporting references to Python types, builtin functions and user defined callables.

* Complete re-work and consolidation of unit tests.

- now over 100 tests covering all aspects of the API and library functionality.
- Moved all tests into a single file. Lots of additional tests have been added along with interface checks to ensure netaddr's always presents a predictable set of properties and methods across releases.

* Nascent support for Python eggs and setuptools.

- Help is need to test this as it is not something I use personally.

^^^

Date: 29th Sep 2008

^^^

class logic and made external attributes changes much
safer and less error prone. It has also made aggregate classes such as CIDR
and Wildcard effectively read-write rather than read-only which they have
been up until this release.

* Amended the way sort order is calculated for Addr and AddrRange (sub)class
instances so that the address type is taken into account as well as as the
numerical value of the address or address range. The ascending sort order
is IPv4, IPv6, EUI-48 and EUI-64. Sequences of AddrRange (sub)class
instances now sort correctly!

* Comparisons between instances of Addr and AddrRange (sub)classes now return
False, rather than raising an AttributeError.

* Added checks and workaround code for Python runtime environments that suffer
from the infamous socket module inet_aton('255.255.255.255') bug. This was
discovered recently in Python 2.4.x on PowerPC under MacOS X. The fix also
applies in cases where the socket module is not
available (e.g. on Google
App Engine).

* All general Exception raising in the strategy module has now been replaced
with more specific exceptions, mainly ValueError (these were unintentionally
missed out of the 0.4 release).

* Implemented __hash__() operations for the Addr and AddrStrategy classes. This
allows you to use IP, CIDR and Wildcard objects as keys in dictionaries and
as elements in sets. Please note - this is currently an experimental feature
which may change in future releases.

* Added __ne__() operation to Addr and AddrRange classes.

* Obeying the 'Law of Demeter', the address type of Addr and AddrRange
(sub)class instances can be accessed using the property directly :-

```
obj.addr_type  # 0.5 onwards
```

rather than having to go via the strategy object :-

```
obj.strategy.addr_type  # 0.4 and earlier
```

* Renamed the AT_DESCR lookup dictionary to AT_NAMES. Removed invalid and
duplicated imports from all modules.

Addr class changes

*

Removed the setvalue() method from the Addr class and replaced all uses of
__setattr__() replaced by custom descriptors throughout.

IP class changes

* Removed the ambiguity with masklen and prefixlen attributes in the IP class.
prefixlen now denotes the number of bits that define the netmask for an IP
address. The new method netmask_bits() returns the number of non-zero bits
in an IP object if the is_netmask() method returns True. A prefixlen value
other than /32 for an address where is_netmask() returns True is invalid
and will raise a ValueError exception.

* Removed the family() method from the IP class. It duplicates information
now provided by the prefixlen property.

* IP class has several new methods. is_multicast() and is_unicast() quickly
tell you what category of IP address you have and while ipv4() and ipv6()
act as IPv4 <-> IPv6 conversions or copy constructors depending on context.

* Reverse DNS lookup entries now contain a trailing, top-level
period (.)
character appended to them.

* Added the hostname() method to IP instances which performs a reverse DNS

* The IP class __str__() method now omits the subnet prefix is now implicit
for IPv4 addresses that are /32 and IPv6 addresses that are /128. Subnet
prefix is maintained in return value for all other values.

AddrRange class changes

* The AddrRange class no longer stores instances of Addr (sub)classes for the
first and last address in the range. The instance variables self.start_addr
and self.stop_addr have been renamed to self.first and self.last and the
methods obj.first() and obj.last() have been removed.

Instead, self.first and self.last contain integer values and a reference
to a strategy object is stored. Doing this is a lot more useful and cleaner
for implementing internal logic.

To get Addr (sub)class objects (or strings, hex etc when manipulating the
the klass property) use the index values obj[0] and obj[-1] as a substitute
for obj.first() and obj.last() respectively.

* AddrRange (sub)class instances now define the increment, __iadd__(), and
decrement, __isub__(), operators. This allows you to 'slide' CIDRs and
Wildcards upwards and downwards based on their block sizes.

* The _retval() method has now been renamed data_flavour() - yes, the UK spelling ;-) You shouldn't really care much about this as it mostly for internal use. I gave it a decent name as I didn't see any real need to hide the functionality if users wanted it.

CIDR class changes

* The strictness of the CIDR class constructor in relation to non-zero bits once the prefix bitmask has been applied can be disabled use the optional argument strict_bitmask=False. It is True (strictness enabled) by default.

* Fixed a bug in abbreviated CIDR conversion. Subnet prefix for multicast address 224.0.0.0 is now /4 instead of /8.

* The CIDR class now supports subtraction between two CIDR objects, returning a list
of the remainder. Please note that the bigger of the two CIDR objects must be on the left hand side of the the expression, otherwise an empty list is return. Sorry, you are not allowed to create negative CIDRs ;-)

* The function abbrev_to_cidr() has been renamed to and turned into the static method CIDR.abbrev_to_verbose(). No major changes to the logic have been made.

Wildcard class changes

* The Wildcard class now defines a static method Wildcard.is_valid() that allows you to perform validity tests on wildcard strings without fully instantiation a Wildcard object.

Release: 0.4

Date: 7th Aug 2008

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Changes since 0.3.x
^^^^^^^^^^^^^^^^^^^

* All general Exception raising has been replaced with more specific exceptions such as TypeError and ValueError and with the addition of two custom exception classes, AddrFormatError and AddrConversionError.

* The IP class now accepts a subnet prefix. It is *NOT* strict about non-zero
bits to the right of implied subnet mask, unlike the CIDR class (see below).

* The CIDR class is now completely strict about non-zero bits to the right of

the implied subnet netmask and raises a ValueError if they exist, with a
handy hint as to the correct CIDR to be used based on the supplied subnet
prefix.

* The CIDR class now also supports abbreviated CIDR ranges and uses older
classful network address rules to decided on a subnet prefix if one is not
explicitly provided. Supported forms now include 10, 10/8 and 192.168/16.
Currently only supports these options for IPv4 CIDR address ranges.

* __repr__() methods have been defined for all classes in the netaddr module
producing executable Python statements that can be used to re-create the
state of any object.

* CIDR and Wildcard classes now have methods that support conversions between
these two aggregate types :-

  * CIDR -> Wildcard
  * Wildcard -> CIDR

^^^^^^^^^^^^^^^^^^^^
Housekeeping
Changes
^^^^^^^^^^^^^^^^^^^^

* Massive docstring review and tidy up with the inclusino of epydoc specific
syntax to spruce up auto-generated API documentation.

* Thorough review of code using pylint.

* Netaddr module now has the special __version__ variable defined which is
also referenced by setup.py.

* Some minor changes to setup.py and MANIFEST.in.

* Constants and custom Exception classes have been moved to __init__.py from
strategy.py

* An import * friendly __all__ has been defined for the netaddr namespace
which should remove the need to delve too much into the address and strategy
submodules.

* Fixed a number of line-ending issues in several files.

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1.4319 datadog-go-libddwaf 2.4.2

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* /opt/cola/permits/2035935721_1717165429.7184455/0/gson-2-11-0-sources-1-jar/com/google/gson/internal/bind/ArrayTypeAdapter.java
* /opt/cola/permits/2035935721_1717165429.7184455/0/gson-2-11-0-sources-1-jar/com/google/gson/internal/JsonReaderInternalAccess.java
* /opt/cola/permits/2035935721_1717165429.7184455/0/gson-2-11-0-sources-1-jar/com/google/gson/internal/bind/MapTypeAdapterFactory.java
* /opt/cola/permits/2035935721_1717165429.7184455/0/gson-2-11-0-sources-1-jar/com/google/gson/TypeAdapterFactory.java
* /opt/cola/permits/2035935721_1717165429.7184455/0/gson-2-11-0-sources-1-jar/com/google/gson/internal/bind/CollectionTypeAdapterFactory.java
* /opt/cola/permits/2035935721_1717165429.7184455/0/gson-2-11-0-sources-1-jar/com/google/gson/TypeAdapter.java
* /opt/cola/permits/2035935721_1717165429.7184455/0/gson-2-11-0-sources-1-jar/com/google/gson/internal/bind/ReflectiveTypeAdapterFactory.java
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* /opt/cola/permits/2035935721_1717165429.7184455/0/gson-2-11-0-sources-1-jar/com/google/gson/internal/bind/JsonTreeWriter.java
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* /opt/cola/permits/2035935721_1717165429.7184455/0/gson-2-11-0-sources-1-jar/com/google/gson/InstanceCreator.java
* /opt/cola/permits/2035935721_1717165429.7184455/0/gson-2-11-0-sources-1-jar/com/google/gson/ExclusionStrategy.java
* /opt/cola/permits/2035935721_1717165429.7184455/0/gson-2-11-0-sources-1-jar/com/google/gson/internal/ObjectConstructor.java
* /opt/cola/permits/2035935721_1717165429.7184455/0/gson-2-11-0-sources-1-jar/com/google/gson/JsonIOException.java
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/opt/cola/permits/2035935721_1717165429.7184455/0/gson-2-11-0-sources-1-jar/com/google/gson/reflect/TypeToken.java
* /opt/cola/permits/2035935721_1717165429.7184455/0/gson-2-11-0-sources-1-jar/com/google/gson/GsonBuilder.java
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* /opt/cola/permits/2035935721_1717165429.7184455/0/gson-2-11-0-sources-1-jar/com/google/gson/stream/JsonReader.java

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 /opt/cola/permits/2035935721_1717165429.7184455/0/gson-2-11-0-sources-1-jar/com/google/gson/stream/JsonToken.java
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* /opt/cola/permits/2035935721_1717165429.7184455/0/gson-2-11-0-sources-1-jar/com/google/gson/internal/LazilyParsedNumber.java
* /opt/cola/permits/2035935721_1717165429.7184455/0/gson-2-11-0-sources-1-jar/com/google/gson/internal/package-info.java
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 /opt/cola/permits/2035935721_1717165429.7184455/0/gson-2-11-0-sources-1-jar/com/google/gson/internal/sql/SqlDateTypeAdapter.java
* /opt/cola/permits/2035935721_1717165429.7184455/0/gson-2-11-0-sources-1-jar/com/google/gson/internal/ConstructorConstructor.java
* /opt/cola/permits/2035935721_1717165429.7184455/0/gson-2-11-0-sources-1-jar/com/google/gson/internal/UnsafeAllocator.java
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* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/util/SerializationUtils.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/core/ReactiveTypeDescriptor.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/util/backoff/ExponentialBackOff.java
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* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/objenesis/instantiator/util/ClassUtils.java
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* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/core/codec/ResourceRegionEncoder.java
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* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/core/serializer/Deserializer.java
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* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/core/codec/AbstractDecoder.java
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 /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/core/ReactiveAdapter.java
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* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/core/InfrastructureProxy.java
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* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/util/xml/SimpleSaxErrorHandler.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/core/task/SyncTaskExecutor.java
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* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/asm/Handle.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-

jar/org/springframework/asm/Context.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/asm/Edge.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/asm/Constants.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/asm/CurrentFrame.java
*
/opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/asm/Frame.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/asm/Opcodes.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/asm/ModuleWriter.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/asm/ClassTooLargeException.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/asm/FieldWriter.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/asm/SymbolTable.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/asm/Attribute.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/asm/MethodVisitor.java
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/opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/asm/MethodWriter.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/asm/ConstantDynamic.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/asm/RecordComponentWriter.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/asm/ClassReader.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/asm/ModuleVisitor.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/asm/RecordComponentVisitor.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/asm/AnnotationVisitor.java
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/opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/asm/Handler.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/asm/MethodTooLargeException.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/asm/TypePath.java

* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/asm/Symbol.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/asm/Label.java
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* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/cglib/proxy/UndeclaredThrowableException.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/cglib/proxy/MethodInterceptor.java
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* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/cglib/core/ClassInfo.java
*
 /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/cglib/transform/AbstractClassFilterTransformer.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/cglib/proxy/CallbackInfo.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/cglib/core/MethodInfoTransformer.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/cglib/transform/impl/AddInitTransformer.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/cglib/proxy/CallbackHelper.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/cglib/proxy/InterfaceMaker.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/cglib/transform/impl/AbstractInterceptFieldCallback.java
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 /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/cglib/proxy/MixinEverythingEmitter.java
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* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/core/style/DefaultToStringStyler.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-

jar/org/springframework/core/ResolvableTypeProvider.java
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 /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-
jar/org/springframework/core/convert/support/StreamConverter.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-
jar/org/springframework/core/convert/support/CollectionToArrayConverter.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-
jar/org/springframework/core/convert/support/IdToEntityConverter.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-
jar/org/springframework/core/convert/support/AbstractConditionalEnumConverter.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-
jar/org/springframework/core/io/FileSystemResourceLoader.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-
jar/org/springframework/core/type/filter/AspectJTypeFilter.java
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 /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-
jar/org/springframework/util/xml/StaxResult.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-
jar/org/springframework/core/io/WritableResource.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-
jar/org/springframework/core/convert/support/ObjectToArrayConverter.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-
jar/org/springframework/core/convert/support/ConvertingPropertyEditorAdapter.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-
jar/org/springframework/core/annotation/Order.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-
jar/org/springframework/core/io/ResourceEditor.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-
jar/org/springframework/core/env/MissingRequiredPropertiesException.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-
jar/org/springframework/core/convert/ConverterNotFoundException.java
*
 /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-
jar/org/springframework/core/codec/EncodingException.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-
jar/org/springframework/core/DecoratingClassLoader.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-
jar/org/springframework/core/convert/converter/GenericConverter.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-
jar/org/springframework/core/io/support/DefaultPropertySourceFactory.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-
jar/org/springframework/util/InvalidMimeTypeException.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-
jar/org/springframework/core/style/ToStringStyler.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-
jar/org/springframework/core/codec/DecodingException.java
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/opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/core/type/ClassMetadata.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/core/convert/support/CollectionToObjectConverter.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/core/codec/CodecException.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/core/io/support/VfsPatternUtils.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/util/xml/AbstractStaxHandler.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/core/env/EnvironmentCapable.java
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* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/cglib/reflect/ConstructorDelegate.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/cglib/transform/AbstractClassTransformer.java
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/opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/cglib/proxy/FixedValue.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/cglib/core/ClassGenerator.java
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* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/cglib/transform/ClassEmitterTransformer.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/cglib/core/DuplicatesPredicate.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/cglib/core/GeneratorStrategy.java
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* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/cglib/core/ClassNameReader.java
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org.springframework.core.ReactiveAdapterRegistry$SpringCoreBlockHoundIntegration

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* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/core/io/DefaultResourceLoader.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/aot/hint/RuntimeHints.java
* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/core/type/classreading/CachingMetadataReaderFactory.java
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* /opt/cola/permits/2037440283_1717404420.6629636/0/spring-core-6-1-8-sources-jar/org/springframework/aot/hint/annotation/ReflectiveRuntimeHintsRegistrar.java

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* /opt/cola/permits/2037825831_1717425940.1592758/0/flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/exception/FlywayBlockStatementExecutionException.java
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* /opt/cola/permits/2037825831_1717425940.1592758/0/flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/util/UrlUtils.java
* /opt/cola/permits/2037825831_1717425940.1592758/0/flyway-core-10-10-0-sources-jar/org/flywaydb/core/api/migration/baseline/BaselineMigrationType.java
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* /opt/cola/permits/2037825831_1717425940.1592758/0/flyway-core-10-10-0-sources-jar/org/flywaydb/core/internal/configuration/models/ResolvedEnvironment.java
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* /opt/cola/permits/2037825831_1717425940.1592758/0/flyway-core-10-10-0-sources-jar/assets/report/upgradeTabs/dryrun.html
* /opt/cola/permits/2037825831_1717425940.1592758/0/flyway-core-10-10-0-sources-

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-- $Id: COPYING,v 1.9 2020/02/08 13:34:12 tom Exp $
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This package is used for testing builds of ncurses.

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1.4333 libheimbaseheimdal 7.7.0+dfsg-1ubuntu1.4

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AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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Thanks to: Dan Hoey for his excellent Initial and Inverse permutation
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lib/hcrypto/test_dh.c

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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D3DES (V5.09) -

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Thanks to: Dan Hoey for his excellent Initial and Inverse permutation
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AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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D3DES (V5.09) -

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Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge.
Thanks to: Dan Hoey for his excellent Initial and Inverse permutation
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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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DES core in libhcrypto

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Thanks to: Dan Hoey for his excellent Initial and Inverse permutation
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@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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DES core in libhcrypto

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Thanks to: Dan Hoey for his excellent Initial and Inverse permutation
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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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DES core in libhcrypto

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Thanks to: Dan Hoey for his excellent Initial and Inverse permutation
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Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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1.4345 jaxb-core 4.0.5

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1.4346 golang 1.22.4

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1.4347 slf4j-jdk14 2.0.13

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com.hazelcast.client.impl.protocol.util.BufferBuilder

contain code originating from the Agrona project
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The class com.hazelcast.internal.util.HashUtil contains code originating
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The class classloading.ThreadLocalLeakTestUtils contains code originating
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com.hazelcast.internal.cluster.fd.PhiAccrualFailureDetector contains code originating
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The class com.hazelcast.instance.impl.MobyNames contains code originating
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The packages:
com.hazelcast.sql
com.hazelcast.jet.sql

contain code originating from the Apache Calcite (https://github.com/apache/calcite)

The class com.hazelcast.jet.kafka.impl.ResumeTransactionUtil contains
code derived from the Apache Flink project.

The class com.hazelcast.internal.util.ConcurrentReferenceHashMap contains code written by Doug Lea
and updated within the WildFly project
(https://github.com/wildfly/wildfly).

The classes:
com.hazelcast.cp.internal.raft.impl.state.FollowerState
com.hazelcast.cp.internal.raft.impl.state.FollowerStateTest
com.hazelcast.cp.internal.raft.impl.SlowFollowerBackoffTest

contain code originating from the MicroRaft project (https://github.com/MicroRaft/MicroRaft)

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1.4349 aspect-j 1.9.22.1

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jQuery UI v1.13.2

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1.4351 x-sys 0.21.0

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1.4352 expr-lang-expr 1.16.9

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1.4354 ndpi 4.2.0

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1.4356 go-jose-go-jose 4.0.2

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1.4357 github.com/azure/azure-sdk-for-go/sdk/internal 1.8.0

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// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}
```

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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* httpd@ncsa.uiuc.edu
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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
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*/

For the expat xml parser component:

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*/
<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-
strict.dtd">
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XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
          This file is generated from xml source: DO NOT EDIT
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
    -->
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<link href="./style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No
Sidebar - Default font size" />
<link href="./style/css/manual-print.css" rel="stylesheet" media="print" type="text/css" /><link rel="stylesheet"
type="text/css" href="./style/css/prettify.css" />
<script src="./style/scripts/prettify.min.js" type="text/javascript">
</script>
```

<link
 href="./images/favicon.ico" rel="shortcut icon" /></head>
<body id="manual-page" class="no-sidebar">
Modules | Directives | <a
href="http://wiki.apache.org/httpd/FAQ">FAQ | Glossary | <a
href="./sitemap.html">Sitemap
Apache HTTP Server Version 2.4

<img title="<-" alt="<-" src="./images/left.gif" />

Apache > HTTP Server > <a
href="http://httpd.apache.org/docs/">Documentation > Version 2.4 <div id="page-
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```
<script type="text/javascript">
<!--//--><![CDATA[//><!--
var comments_shortname = 'httpd';
var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';
(function(w, d) {
  if (w.location.hostname.toLowerCase() == "httpd.apache.org") {
      d.write('<div id="comments_thread"><\/div>');
      var s = d.createElement('script');
      s.type = 'text/javascript';
      s.async = true;
      s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortname + '&page=' +
comments_identifier;
      (d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
   }
  else {
      d.write('<div id="comments_thread">Comments are disabled for this page at the moment.<\/div>');
  }
})(window, document);
//--><!]]></script></div><div id="footer">
<p class="apache">Copyright 2015 The Apache Software Foundation.<br />Licensed under the <a
href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.</p>
<p class="menu"><a href="./mod/">Modules</a> | <a href="./mod/directives.html">Directives</a> | <a
href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="./glossary.html">Glossary</a> | <a
href="./sitemap.html">Sitemap</a></p></div><script type="text/javascript">
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if (typeof(prettyPrint) !== 'undefined') {
  prettyPrint();
}
//--><!]]></script>
</body></html>
```

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1.4361 x-net 0.26.0

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1.4362 procfs 0.15.1

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* /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/crypto/impl/MACProvider.java
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 /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/JWEObjectJSON.java

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* /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/crypto/impl/AESGCM.java
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* /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/util/Base64URL.java
* /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/AlgorithmFamily.java
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* /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/JWEObject.java
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* /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/Algorithm.java
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* /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/proc/JWSKeySelector.java
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* /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/KeyLengthException.java
* /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/JOSEObjectType.java
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/opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/util/AbstractRestrictedResourceRetriever.java
* /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/crypto/PasswordBasedDecrypter.java
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/opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/jwk/source/JWKSource.java
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* /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jwt/util/DateUtils.java
* /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/PayloadTransformer.java
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* /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/jca/JCASupport.java
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/opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/util/X509CertUtils.java
* /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/proc/JWEKeySelector.java
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* /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/jca/package-info.java
* /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/proc/BadJWSException.java
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* /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/crypto/RSAEncrypter.java
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* /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/JWSProvider.java
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* /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/util/package-info.java
* /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jwt/proc/ClockSkewAware.java
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* /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/proc/JWSVerifierFactory.java
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* /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/jwk/AsymmetricJWK.java
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* /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/util/DateUtils.java
* /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/util/ByteUtils.java

* /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/proc/package-info.java
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* /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/jwk/source/JWKSetSourceWrapper.java
* /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/jwk/source/JWKSetUnavailableException.java
* /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/jwk/source/JWKSourceBuilder.java
* /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/jwk/source/RateLimitReachedException.java
* /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/jwk/source/RefreshAheadCachingJWKSetSource.java
* /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/jwk/source/package-info.java
* /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/jwk/source/URLBasedJWKSetSource.java
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* /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/jwk/source/RetryingJWKSetSource.java
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* /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/jwk/source/OutageTolerantJWKSetSource.java

* /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/jwk/source/JWKSetSource.java
* /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/jwk/source/JWKSetSourceWithHealthStatusReporting.java
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* /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/JSONSerializable.java
* /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/crypto/impl/ECDH1PU.java
*
 /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/mint/package-info.java
* /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/crypto/impl/XC20P.java
* /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/crypto/ECDH1PUX25519Encrypter.java
* /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/util/Pair.java
* /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/crypto/impl/ECDH1PUCryptoProvider.java
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```
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* /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/jwk/OctetSequenceKey.java
* /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/jwk/RSAKey.java
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* /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/jwk/ThumbprintURI.java
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* /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/jwk/gen/package-info.java
* /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/jwk/Curve.java
* /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/crypto/opts/AllowWeakRSAKey.java
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* /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-

jar/com/nimbusds/jose/IllegalHeaderException.java
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* /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/crypto/impl/CompositeKey.java
* /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/jwk/KeyUseAndOpsConsistency.java
* /opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/crypto/opts/OptionUtils.java
*
/opt/cola/permits/2046975830_1718013524.0126162/0/nimbus-jose-jwt-9-40-sources-jar/com/nimbusds/jose/util/IOUtils.java
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1.4372 libpcre16 8.45-r3

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1.4373 pcre-dev 8.45-r3

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1.4375 zipp 3.19.2

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1.4376 xmlunit-core 2.10.0

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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Built-By: stefan
Build-Jdk: 17.0.10
Specification-Title: org.xmlunit:xmlunit-core
Specification-Version: 2.10
Specification-Vendor: XMLUnit
Implementation-Title: org.xmlunit:xmlunit-core
Implementation-Version: 2.10.0
Implementation-Vendor-Id: org.xmlunit
Implementation-Vendor: XMLUnit
Implementation-URL: https://www.xmlunit.org/
Automatic-Module-Name: org.xmlunit
X-Compile-Source-JDK: 1.7
X-Compile-Target-JDK: 1.7
X-Git-Hash: 33a5d6a28712878fc1355802571aab074d2145c1 (Branch main)
build-time: 2024-04-28T14:43:22Z
Bnd-LastModified: 1714315422161
Bundle-Description: XMLUnit for Java
Bundle-DocURL: https://www.xmlunit.org/
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: org.xmlunit:xmlunit-core
Bundle-SymbolicName: org.xmlunit.xmlunit-core
Bundle-Vendor: XMLUnit
Bundle-Version: 2.10.0
Export-Package: org.xmlunit;version="2.10.0",org.xmlunit.builder;version
 ="2.10.0",org.xmlunit.builder.javax_jaxb;version="2.10.0",org.xmlunit.d
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alidation;version="2.10.0",org.xmlunit.xpath;version="2.10.0"
Import-Package: javax.xml.bind,javax.xml.bind.annotation,javax.xml.bind.
util,javax.xml.namespace,javax.xml.parsers,javax.xml.transform,javax.xm
```

l.transform.dom,javax.xml.transform.sax,javax.xml.transform.stream,java
x.xml.validation,javax.xml.xpath,org.w3c.dom,org.xml.sax,org.xml.sax.he
lpers
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-3.2.0.201605172007

Found in path(s):
* /opt/cola/permits/2050862075_1718168098.490458/0/xmlunit-core-2-10-0-jar/META-INF/MANIFEST.MF
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* /opt/cola/permits/2050862075_1718168098.490458/0/xmlunit-core-2-10-0-jar/META-INF/maven/org.xmlunit/xmlunit-core/pom.xml

1.4377 lazr-restfulclient 0.14.6

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1.4384 kustomize-api 0.17.2

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```
package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
 Plugin     string
 Option     string
 Severity   string // 'deprecated', 'removed', or 'unsupported'
```

```
 ReplacedBy string
 Additional string
 Version    string
}

func (n *Notice) ToString() string {
 s := ""
 if n.Option == "" {
  s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
 } else {
  s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
 }
 if n.Severity == SevUnsupported {
  s += "is unsupported by this migration tool in " + n.Version + "."
 } else if n.Severity == SevNewDefault {
  s += "is added as a default in " + n.Version + "."
 } else {
  s += "is " + n.Severity + " in " + n.Version + "."
 }
 if n.ReplacedBy != "" {
  s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
 }
 if n.Additional != "" {
  s += " " + n.Additional
 }
 return s
}

const (
 // The following statuses are used to indicate the state of support/deprecation in a given release.
 SevDeprecated  = "deprecated"
  // deprecated, but still completely functional
 SevIgnored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
 SevRemoved     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present
in the Corefile
 SevNewDefault  = "newdefault"  // added to the default corefile.  CoreDNS may not function properly if it is not
present in the corefile.
 SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool

 // The following statuses are used for selecting/filtering notifications
 SevAll = "all" // show all statuses
)
```

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==========
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==========
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// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL string `json:"url,omitempty"`
}
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The common/types/pb/equal.go modification of proto.Equal logic
==========
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1.4385 x-crypto 0.24.0

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1.4386 kustomize-kyaml 0.17.1

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```
package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
 Plugin     string
 Option     string
 Severity   string // 'deprecated', 'removed', or 'unsupported'
```

```
 ReplacedBy string
 Additional string
 Version    string
}

func (n *Notice) ToString() string {
 s := ""
 if n.Option == "" {
  s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
 } else {
  s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
 }
 if n.Severity == SevUnsupported {
  s += "is unsupported by this migration tool in " + n.Version + "."
 } else if n.Severity == SevNewDefault {
  s += "is added as a default in " + n.Version + "."
 } else {
  s += "is " + n.Severity + " in " + n.Version + "."
 }
 if n.ReplacedBy != "" {
  s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
 }
 if n.Additional != "" {
  s += " " + n.Additional
 }
 return s
}

const (
 // The following statuses are used to indicate the state of support/deprecation in a given release.
 SevDeprecated  = "deprecated"
  // deprecated, but still completely functional
 SevIgnored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
 SevRemoved     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present
in the Corefile
 SevNewDefault  = "newdefault"  // added to the default corefile.  CoreDNS may not function properly if it is not
present in the corefile.
 SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool

 // The following statuses are used for selecting/filtering notifications
 SevAll = "all" // show all statuses
)
```

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==========
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//
// For more information: http://goo.gl/8us55a#licenseObject
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 Name string `json:"name,omitempty"`
 URL string `json:"url,omitempty"`
}
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==========
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Multi-producer/multi-consumer bounded queue.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate
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- Path: js/js.inliner/src/org/jetbrains/kotlin/js/inline/FunctionInlineMutator.kt
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- Path: js/js.parser/src/com/google
  - License: Netscape Public License 1.1 ([license/third_party/rhino_LICENSE.txt][rhino])
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- Path: js/js.translator/qunit/qunit.js
  - License: MIT ([license/third_party/qunit_license.txt][qunit])
  - Origin: QUnit, Copyright (c) 2012 John Resig, Jrn Zaefferer,

- Path: libraries/stdlib/src/kotlin/collections
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- Path: libraries/stdlib/unsigned/src/kotlin/UnsignedUtils.kt
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- Path: libraries/stdlib/jvm/src/kotlin/util/MathJVM.kt
  - License: Boost Software License 1.0 ([license/third_party/boost_LICENSE.txt][boost])
  - Origin: Derived from boost special math functions, Copyright Eric Ford & Hubert Holin 2001.

- Path: libraries/stdlib/js/src/kotlin/collections
  - License: Apache 2 ([license/third_party/gwt_license.txt][gwt])
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- Path: libraries/stdlib/js-v1/src/js/long.js
  - License: Apache 2 ([license/third_party/closure-compiler_LICENSE.txt][closure-compiler])
  - Origin: Google Closure Library, Copyright 2009 The Closure Library Authors

- Path: libraries/stdlib/js-v1/src/js/polyfills.js
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- Path: libraries/stdlib/wasm/internal/kotlin/wasm/internal/Number2String.kt
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  - Origin: Derived from assemblyscript standard library

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- Path: wasm/ir/src/org/jetbrains/kotlin/wasm/ir/convertors
  - License: MIT ([license/third_party/asmble_license.txt][asmble])

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- Path: compiler/tests-common/tests/org/jetbrains/kotlin/codegen/ir/ComposeLikeGenerationExtension.kt
- License: Apache 2 ([license/third_party/aosp_license.txt][aosp])
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- Path: libraries/stdlib/wasm/src/kotlin/math/fdlibm/
- License: SUN ([license/third_party/sun_license.txt][sun])
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- Path: kotlin-native/runtime/src/main/cpp/Utils.cpp
- License: Boost Software License 1.0 ([license/third_party/boost_LICENSE.txt][boost])
- Origin: Derived from boost hash functions, Copyright 2005-2014 Daniel James

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- License: LGPL 2.1 ([license/third_party/testdata/findbugs_license.txt][findbugs])
- Origin: Bytecode Analysis Framework, Copyright (C) 2005 University of Maryland

- Path: third-party/java8-annotations/org/eclipse
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- Path: idea/idea-android/tests/org/jetbrains/kotlin/android/AndroidTestBase.java
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  - Origin: Spring Framework, Copyright 2002-2007 the original author or authors.

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  - Origin: Gradle, Copyright 2002-2017 Gradle, Inc.

- Path: libraries/tools/kotlin-gradle-plugin-integration-tests/target/test-classes/testProject/noArgJpa/src/javax/persistence/Entity.java
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  - Origin: javax.persistence, Copyright (c) 2008, 2017 Sun Microsystems, Oracle Corporation.

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  - Origin: javax.persistence, Copyright (c) 2008, 2017 Sun Microsystems, Oracle Corporation.

- Path: libraries/tools/kotlin-gradle-plugin/src/common/kotlin/org/jetbrains/kotlin/gradle/targets/js/nodejs/Platform.kt
  - License: Apache License 2.0 ([license/third_party/gradle-node-plugin_LICENSE.txt](third_party/gradle-node-plugin_LICENSE.txt))
  - Origin: Copyright (c) 2013 node-gradle/gradle-node-plugin

- Path: libraries/tools/kotlin-test-js-runner/karma-kotlin-reporter.js
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- Path: libraries/tools/kotlin-test-js-runner/mocha-kotlin-reporter.js
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- Path: libraries/tools/kotlin-test-js-runner/src/utils.ts
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1.4390 sshd-sftp 2.12.1

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1.4391 x-oauth2 0.21.0

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1.4392 urfave-cli 1.22.15

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1.4393 spring-web 6.1.8

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* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/web/client/HttpClientErrorException.java
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* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/web/context/request/ServletRequestAttributes.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/http/codec/cbor/Jackson2CborEncoder.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/web/accept/FixedContentNegotiationStrategy.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/web/client/UnknownHttpStatusCodeException.java
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* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/web/method/annotation/AbstractWebArgumentResolverAdapter.java

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* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/http/client/reactive/ClientHttpConnector.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/web/bind/annotation/RequestHeader.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/web/context/AbstractContextLoaderInitializer.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/http/codec/HttpMessageEncoder.java
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* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/http/HttpLogging.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/http/codec/LoggingCodecSupport.java
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* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/web/accept/ContentNegotiationStrategy.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/http/server/reactive/SslInfo.java
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* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/web/util/UriBuilderFactory.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/web/filter/CorsFilter.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/http/converter/json/AbstractJsonHttpMessageConverter.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/web/accept/ServletPathExtensionContentNegotiationStrategy.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/web/client/RestClientException.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/http/server/reactive/HttpHeadResponseDecorator.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/web/cors/reactive/UrlBasedCorsConfigurationSource.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/http/client/AbstractClientHttpRequest.java
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* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/http/codec/ResourceHttpMessageReader.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/http/client/reactive/ClientHttpRequest.java
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* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/web/context/request/WebRequest.java
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* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/http/codec/multipart/FilePart.java
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*/

Found in path(s):
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/web/util/IntrospectorCleanupListener.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/web/jsf/DelegatingPhaseListenerMulticaster.java
*
 /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/web/client/ResourceAccessException.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/http/MediaTypeEditor.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/web/context/ConfigurableWebEnvironment.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/web/bind/annotation/ValueConstants.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-

jar/org/springframework/web/bind/support/SimpleSessionStatus.java
No license file was found, but licenses were detected in source scan.

```
# This file maps Internet media types to unique file extension(s).
# Although created for httpd, this file is used by many software systems
# and has been placed in the public domain for unlimited redistribution.
#
# The table below contains both registered and (common) unregistered types.
# A type that has no unique extension can be ignored -- they are listed
# here to guide configurations toward known types and to make it easier to
# identify "new" types.  File extensions are also commonly used to indicate
# content languages and encodings, so choose them carefully.
#
# Internet media types should be registered as described in RFC 4288.
# The registry is at <https://www.iana.org/assignments/media-types/>.
#
# This file was retrieved from
https://svn.apache.org/viewvc/httpd/httpd/trunk/docs/conf/mime.types?revision=1752884&view=co
#
# MIME type (lowercased)   Extensions
# ========================================== ==========
#
 application/1d-interleaved-parityfec
# application/3gpdash-qoe-report+xml
# application/3gpp-ims+xml
# application/a2l
# application/activemessage
# application/alto-costmap+json
# application/alto-costmapfilter+json
# application/alto-directory+json
# application/alto-endpointcost+json
# application/alto-endpointcostparams+json
# application/alto-endpointprop+json
# application/alto-endpointpropparams+json
# application/alto-error+json
# application/alto-networkmap+json
# application/alto-networkmapfilter+json
# application/aml
application/andrew-inset   ez
# application/applefile
application/applixware    aw
# application/atf
# application/atfx
application/atom+xml    atom
application/atomcat+xml    atomcat
# application/atomdeleted+xml
# application/atomicmail
application/atomsvc+xml    atomsvc
```

```
# application/atxml
# application/auth-policy+xml
# application/bacnet-xdd+zip
# application/batch-smtp
# application/beep+xml
# application/calendar+json
# application/calendar+xml
#
 application/call-completion
# application/cals-1840
# application/cbor
# application/ccmp+xml
application/ccxml+xml    ccxml
# application/cdfx+xml
application/cdmi-capability   cdmia
application/cdmi-container   cdmic
application/cdmi-domain    cdmid
application/cdmi-object    cdmio
application/cdmi-queue    cdmiq
# application/cdni
# application/cea
# application/cea-2018+xml
# application/cellml+xml
# application/cfw
# application/cms
# application/cnrp+xml
# application/coap-group+json
# application/commonground
# application/conference-info+xml
# application/cpl+xml
# application/csrattrs
# application/csta+xml
# application/cstadata+xml
# application/csvm+json
application/cu-seeme    cu
# application/cybercash
# application/dash+xml
# application/dashdelta
application/davmount+xml   davmount
# application/dca-rft
# application/dcd
# application/dec-dx
# application/dialog-info+xml
# application/dicom
# application/dii
# application/dit
# application/dns
application/docbook+xml    dbk
```

```
#
 application/dskpp+xml
application/dssc+der    dssc
application/dssc+xml    xdssc
# application/dvcs
application/ecmascript    ecma
# application/edi-consent
# application/edi-x12
# application/edifact
# application/efi
# application/emergencycalldata.comment+xml
# application/emergencycalldata.deviceinfo+xml
# application/emergencycalldata.providerinfo+xml
# application/emergencycalldata.serviceinfo+xml
# application/emergencycalldata.subscriberinfo+xml
application/emma+xml    emma
# application/emotionml+xml
# application/encaprtp
# application/epp+xml
application/epub+zip    epub
# application/eshop
# application/example
application/exi     exi
# application/fastinfoset
# application/fastsoap
# application/fdt+xml
# application/fits
# application/font-sfnt
application/font-tdpfr    pfr
application/font-woff    woff
# application/framework-attributes+xml
# application/geo+json
application/gml+xml    gml
application/gpx+xml    gpx
application/gxf     gxf
# application/gzip
#
 application/h224
# application/held+xml
# application/http
application/hyperstudio    stk
# application/ibe-key-request+xml
# application/ibe-pkg-reply+xml
# application/ibe-pp-data
# application/iges
# application/im-iscomposing+xml
# application/index
# application/index.cmd
```

```
# application/index.obj
# application/index.response
# application/index.vnd
application/inkml+xml    ink inkml
# application/iotp
application/ipfix    ipfix
# application/ipp
# application/isup
# application/its+xml
application/java-archive   jar
application/java-serialized-object  ser
application/java-vm    class
application/javascript    js
# application/jose
# application/jose+json
# application/jrd+json
application/json    json
# application/json-patch+json
# application/json-seq
application/jsonml+json    jsonml
# application/jwk+json
# application/jwk-set+json
# application/jwt
# application/kpml-request+xml
# application/kpml-response+xml
# application/ld+json
# application/lgr+xml
# application/link-format
#
 application/load-control+xml
application/lost+xml    lostxml
# application/lostsync+xml
# application/lxf
application/mac-binhex40   hqx
application/mac-compactpro   cpt
# application/macwriteii
application/mads+xml    mads
application/marc    mrc
application/marcxml+xml    mrcx
application/mathematica    ma nb mb
application/mathml+xml    mathml
# application/mathml-content+xml
# application/mathml-presentation+xml
# application/mbms-associated-procedure-description+xml
# application/mbms-deregister+xml
# application/mbms-envelope+xml
# application/mbms-msk+xml
# application/mbms-msk-response+xml
```

```
# application/mbms-protection-description+xml
# application/mbms-reception-report+xml
# application/mbms-register+xml
# application/mbms-register-response+xml
# application/mbms-schedule+xml
# application/mbms-user-service-description+xml
application/mbox    mbox
# application/media-policy-dataset+xml
# application/media_control+xml
application/mediaservercontrol+xml  mscml
# application/merge-patch+json
application/metalink+xml   metalink
application/metalink4+xml   meta4
application/mets+xml    mets
#
 application/mf4
# application/mikey
application/mods+xml    mods
# application/moss-keys
# application/moss-signature
# application/mosskey-data
# application/mosskey-request
application/mp21    m21 mp21
application/mp4     mp4s
# application/mpeg4-generic
# application/mpeg4-iod
# application/mpeg4-iod-xmt
# application/mrb-consumer+xml
# application/mrb-publish+xml
# application/msc-ivr+xml
# application/msc-mixer+xml
application/msword    doc dot
application/mxf     mxf
# application/nasdata
# application/news-checkgroups
# application/news-groupinfo
# application/news-transmission
# application/nlsml+xml
# application/nss
# application/ocsp-request
# application/ocsp-response
application/octet-stream bin dms lrf mar so dist distz pkg bpk dump elc deploy
application/oda     oda
# application/odx
application/oebps-package+xml   opf
application/ogg     ogx
application/omdoc+xml    omdoc
application/onenote    onetoc
```

```
 onetoc2 onetmp onepkg
application/oxps    oxps
# application/p2p-overlay+xml
# application/parityfec
application/patch-ops-error+xml   xer
application/pdf     pdf
# application/pdx
application/pgp-encrypted   pgp
# application/pgp-keys
application/pgp-signature   asc sig
application/pics-rules    prf
# application/pidf+xml
# application/pidf-diff+xml
application/pkcs10    p10
# application/pkcs12
application/pkcs7-mime    p7m p7c
application/pkcs7-signature   p7s
application/pkcs8    p8
application/pkix-attr-cert   ac
application/pkix-cert    cer
application/pkix-crl    crl
application/pkix-pkipath   pkipath
application/pkixcmp    pki
application/pls+xml    pls
# application/poc-settings+xml
application/postscript    ai eps ps
# application/ppsp-tracker+json
# application/problem+json
# application/problem+xml
# application/provenance+xml
# application/prs.alvestrand.titrax-sheet
application/prs.cww    cww
# application/prs.hpub+zip
#
 application/prs.nprend
# application/prs.plucker
# application/prs.rdf-xml-crypt
# application/prs.xsf+xml
application/pskc+xml    pskcxml
# application/qsig
# application/raptorfec
# application/rdap+json
application/rdf+xml    rdf
application/reginfo+xml    rif
application/relax-ng-compact-syntax  rnc
# application/remote-printing
# application/reputon+json
application/resource-lists+xml   rl
```

```
application/resource-lists-diff+xml  rld
# application/rfc+xml
# application/riscos
# application/rlmi+xml
application/rls-services+xml   rs
application/rpki-ghostbusters   gbr
application/rpki-manifest   mft
application/rpki-roa    roa
# application/rpki-updown
application/rsd+xml    rsd
application/rss+xml    rss
application/rtf     rtf
# application/rtploopback
# application/rtx
# application/samlassertion+xml
# application/samlmetadata+xml
application/sbml+xml    sbml
# application/scaip+xml
# application/scim+json
application/scvp-cv-request   scq
application/scvp-cv-response   scs
application/scvp-vp-request   spq
application/scvp-vp-response   spp
application/sdp     sdp
#
 application/sep+xml
# application/sep-exi
# application/session-info
# application/set-payment
application/set-payment-initiation  setpay
# application/set-registration
application/set-registration-initiation  setreg
# application/sgml
# application/sgml-open-catalog
application/shf+xml    shf
# application/sieve
# application/simple-filter+xml
# application/simple-message-summary
# application/simplesymbolcontainer
# application/slate
# application/smil
application/smil+xml    smi smil
# application/smpte336m
# application/soap+fastinfoset
# application/soap+xml
application/sparql-query   rq
application/sparql-results+xml   srx
# application/spirits-event+xml
```

```
# application/sql
application/srgs    gram
application/srgs+xml    grxml
application/sru+xml    sru
application/ssdl+xml    ssdl
application/ssml+xml    ssml
# application/tamp-apex-update
# application/tamp-apex-update-confirm
# application/tamp-community-update
#
 application/tamp-community-update-confirm
# application/tamp-error
# application/tamp-sequence-adjust
# application/tamp-sequence-adjust-confirm
# application/tamp-status-query
# application/tamp-status-response
# application/tamp-update
# application/tamp-update-confirm
application/tei+xml    tei teicorpus
application/thraud+xml    tfi
# application/timestamp-query
# application/timestamp-reply
application/timestamped-data   tsd
# application/ttml+xml
# application/tve-trigger
# application/ulpfec
# application/urc-grpsheet+xml
# application/urc-ressheet+xml
# application/urc-targetdesc+xml
# application/urc-uisocketdesc+xml
# application/vcard+json
# application/vcard+xml
# application/vemmi
# application/vividence.scriptfile
# application/vnd.3gpp-prose+xml
# application/vnd.3gpp-prose-pc3ch+xml
# application/vnd.3gpp.access-transfer-events+xml
# application/vnd.3gpp.bsf+xml
# application/vnd.3gpp.mid-call+xml
application/vnd.3gpp.pic-bw-large  plb
application/vnd.3gpp.pic-bw-small  psb
application/vnd.3gpp.pic-bw-var   pvb
#
 application/vnd.3gpp.sms
# application/vnd.3gpp.sms+xml
# application/vnd.3gpp.srvcc-ext+xml
# application/vnd.3gpp.srvcc-info+xml
# application/vnd.3gpp.state-and-event-info+xml
```

```
# application/vnd.3gpp.ussd+xml
# application/vnd.3gpp2.bcmcsinfo+xml
# application/vnd.3gpp2.sms
application/vnd.3gpp2.tcap   tcap
# application/vnd.3lightssoftware.imagescal
application/vnd.3m.post-it-notes  pwn
application/vnd.accpac.simply.aso  aso
application/vnd.accpac.simply.imp  imp
application/vnd.acucobol   acu
application/vnd.acucorp    atc acutc
application/vnd.adobe.air-application-installer-package+zip air
# application/vnd.adobe.flash.movie
application/vnd.adobe.formscentral.fcdt  fcdt
application/vnd.adobe.fxp   fxp fxpl
# application/vnd.adobe.partial-upload
application/vnd.adobe.xdp+xml   xdp
application/vnd.adobe.xfdf   xfdf
# application/vnd.aether.imp
# application/vnd.ah-barcode
application/vnd.ahead.space   ahead
application/vnd.airzip.filesecure.azf  azf
application/vnd.airzip.filesecure.azs  azs
application/vnd.amazon.ebook   azw
#
 application/vnd.amazon.mobi8-ebook
application/vnd.americandynamics.acc  acc
application/vnd.amiga.ami   ami
# application/vnd.amundsen.maze+xml
application/vnd.android.package-archive  apk
# application/vnd.anki
application/vnd.anser-web-certificate-issue-initiation cii
application/vnd.anser-web-funds-transfer-initiation fti
application/vnd.antix.game-component  atx
# application/vnd.apache.thrift.binary
# application/vnd.apache.thrift.compact
# application/vnd.apache.thrift.json
# application/vnd.api+json
application/vnd.apple.installer+xml  mpkg
application/vnd.apple.mpegurl   m3u8
# application/vnd.arastra.swi
application/vnd.aristanetworks.swi  swi
# application/vnd.artsquare
application/vnd.astraea-software.iota  iota
application/vnd.audiograph   aep
# application/vnd.autopackage
# application/vnd.avistar+xml
# application/vnd.balsamiq.bmml+xml
# application/vnd.balsamiq.bmpr
```

```
#
 application/vnd.bekitzur-stech+json
# application/vnd.biopax.rdf+xml
application/vnd.blueice.multipass  mpm
# application/vnd.bluetooth.ep.oob
# application/vnd.bluetooth.le.oob
application/vnd.bmi    bmi
application/vnd.businessobjects   rep
# application/vnd.cab-jscript
# application/vnd.canon-cpdl
# application/vnd.canon-lips
# application/vnd.cendio.thinlinc.clientconf
# application/vnd.century-systems.tcp_stream
application/vnd.chemdraw+xml   cdxml
# application/vnd.chess-pgn
application/vnd.chipnuts.karaoke-mmd  mmd
application/vnd.cinderella   cdy
# application/vnd.cirpack.isdn-ext
# application/vnd.citationstyles.style+xml
application/vnd.claymore   cla
application/vnd.cloanto.rp9   rp9
application/vnd.clonk.c4group   c4g c4d c4f c4p c4u
application/vnd.cluetrust.cartomobile-config  c11amc
application/vnd.cluetrust.cartomobile-config-pkg c11amz
# application/vnd.coffeescript
# application/vnd.collection+json
# application/vnd.collection.doc+json
# application/vnd.collection.next+json
#
 application/vnd.comicbook+zip
# application/vnd.commerce-battelle
application/vnd.commonspace   csp
application/vnd.contact.cmsg   cdbcmsg
# application/vnd.coreos.ignition+json
application/vnd.cosmocaller   cmc
application/vnd.crick.clicker   clkx
application/vnd.crick.clicker.keyboard  clkk
application/vnd.crick.clicker.palette  clkp
application/vnd.crick.clicker.template  clkt
application/vnd.crick.clicker.wordbank  clkw
application/vnd.criticaltools.wbs+xml  wbs
application/vnd.ctc-posml   pml
# application/vnd.ctct.ws+xml
# application/vnd.cups-pdf
# application/vnd.cups-postscript
application/vnd.cups-ppd   ppd
# application/vnd.cups-raster
# application/vnd.cups-raw
```

```
# application/vnd.curl
application/vnd.curl.car   car
application/vnd.curl.pcurl   pcurl
# application/vnd.cyan.dean.root+xml
# application/vnd.cybank
application/vnd.dart    dart
application/vnd.data-vision.rdz   rdz
# application/vnd.debian.binary-package
application/vnd.dece.data   uvf uvvf
 uvd uvvd
application/vnd.dece.ttml+xml   uvt uvvt
application/vnd.dece.unspecified  uvx uvvx
application/vnd.dece.zip   uvz uvvz
application/vnd.denovo.fcselayout-link  fe_launch
# application/vnd.desmume.movie
# application/vnd.dir-bi.plate-dl-nosuffix
# application/vnd.dm.delegation+xml
application/vnd.dna    dna
# application/vnd.document+json
application/vnd.dolby.mlp   mlp
# application/vnd.dolby.mobile.1
# application/vnd.dolby.mobile.2
# application/vnd.doremir.scorecloud-binary-document
application/vnd.dpgraph    dpg
application/vnd.dreamfactory   dfac
# application/vnd.drive+json
application/vnd.ds-keypoint   kpxx
# application/vnd.dtg.local
# application/vnd.dtg.local.flash
# application/vnd.dtg.local.html
application/vnd.dvb.ait    ait
# application/vnd.dvb.dvbj
# application/vnd.dvb.esgcontainer
# application/vnd.dvb.ipdcdftnotifaccess
# application/vnd.dvb.ipdcesgaccess
# application/vnd.dvb.ipdcesgaccess2
# application/vnd.dvb.ipdcesgpdd
# application/vnd.dvb.ipdcroaming
#
 application/vnd.dvb.iptv.alfec-base
# application/vnd.dvb.iptv.alfec-enhancement
# application/vnd.dvb.notif-aggregate-root+xml
# application/vnd.dvb.notif-container+xml
# application/vnd.dvb.notif-generic+xml
# application/vnd.dvb.notif-ia-msglist+xml
# application/vnd.dvb.notif-ia-registration-request+xml
# application/vnd.dvb.notif-ia-registration-response+xml
# application/vnd.dvb.notif-init+xml
```

```
# application/vnd.dvb.pfr
application/vnd.dvb.service   svc
# application/vnd.dxr
application/vnd.dynageo    geo
# application/vnd.dzr
# application/vnd.easykaraoke.cdgdownload
# application/vnd.ecdis-update
application/vnd.ecowin.chart   mag
# application/vnd.ecowin.filerequest
# application/vnd.ecowin.fileupdate
# application/vnd.ecowin.series
# application/vnd.ecowin.seriesrequest
# application/vnd.ecowin.seriesupdate
# application/vnd.emclient.accessrequest+xml
application/vnd.enliven    nml
# application/vnd.enphase.envoy
# application/vnd.eprints.data+xml
application/vnd.epson.esf   esf
application/vnd.epson.msf   msf
application/vnd.epson.quickanime  qam
application/vnd.epson.salt   slt
application/vnd.epson.ssf   ssf
#
 application/vnd.ericsson.quickcall
application/vnd.eszigno3+xml   es3 et3
# application/vnd.etsi.aoc+xml
# application/vnd.etsi.asic-e+zip
# application/vnd.etsi.asic-s+zip
# application/vnd.etsi.cug+xml
# application/vnd.etsi.iptvcommand+xml
# application/vnd.etsi.iptvdiscovery+xml
# application/vnd.etsi.iptvprofile+xml
# application/vnd.etsi.iptvsad-bc+xml
# application/vnd.etsi.iptvsad-cod+xml
# application/vnd.etsi.iptvsad-npvr+xml
# application/vnd.etsi.iptvservice+xml
# application/vnd.etsi.iptvsync+xml
# application/vnd.etsi.iptvueprofile+xml
# application/vnd.etsi.mcid+xml
# application/vnd.etsi.mheg5
# application/vnd.etsi.overload-control-policy-dataset+xml
# application/vnd.etsi.pstn+xml
# application/vnd.etsi.sci+xml
# application/vnd.etsi.simservs+xml
# application/vnd.etsi.timestamp-token
# application/vnd.etsi.tsl+xml
# application/vnd.etsi.tsl.der
#
```

```
 application/vnd.eudora.data
application/vnd.ezpix-album   ez2
application/vnd.ezpix-package   ez3
# application/vnd.f-secure.mobile
# application/vnd.fastcopy-disk-image
application/vnd.fdf    fdf
application/vnd.fdsn.mseed   mseed
application/vnd.fdsn.seed   seed dataless
# application/vnd.ffsns
# application/vnd.filmit.zfc
# application/vnd.fints
# application/vnd.firemonkeys.cloudcell
application/vnd.flographit   gph
application/vnd.fluxtime.clip   ftc
# application/vnd.font-fontforge-sfd
application/vnd.framemaker   fm frame maker book
application/vnd.frogans.fnc   fnc
application/vnd.frogans.ltf   ltf
application/vnd.fsc.weblaunch   fsc
application/vnd.fujitsu.oasys   oas
application/vnd.fujitsu.oasys2   oa2
application/vnd.fujitsu.oasys3   oa3
application/vnd.fujitsu.oasysgp   fg5
application/vnd.fujitsu.oasysprs  bh2
# application/vnd.fujixerox.art-ex
# application/vnd.fujixerox.art4
application/vnd.fujixerox.ddd   ddd
application/vnd.fujixerox.docuworks  xdw
application/vnd.fujixerox.docuworks.binder xbd
#
 application/vnd.fujixerox.docuworks.container
# application/vnd.fujixerox.hbpl
# application/vnd.fut-misnet
application/vnd.fuzzysheet   fzs
application/vnd.genomatix.tuxedo  txd
# application/vnd.geo+json
# application/vnd.geocube+xml
application/vnd.geogebra.file   ggb
application/vnd.geogebra.tool   ggt
application/vnd.geometry-explorer  gex gre
application/vnd.geonext    gxt
application/vnd.geoplan    g2w
application/vnd.geospace   g3w
# application/vnd.gerber
# application/vnd.globalplatform.card-content-mgt
# application/vnd.globalplatform.card-content-mgt-response
application/vnd.gmx    gmx
application/vnd.google-earth.kml+xml  kml
```

```
application/vnd.google-earth.kmz  kmz
# application/vnd.gov.sk.e-form+xml
# application/vnd.gov.sk.e-form+zip
# application/vnd.gov.sk.xmldatacontainer+xml
application/vnd.grafeq    gqf gqs
# application/vnd.gridmp
application/vnd.groove-account   gac
application/vnd.groove-help   ghf
application/vnd.groove-identity-message  gim
application/vnd.groove-injector   grv
application/vnd.groove-tool-message  gtm
application/vnd.groove-tool-template  tpl
application/vnd.groove-vcard   vcg
#
 application/vnd.hal+json
application/vnd.hal+xml    hal
application/vnd.handheld-entertainment+xml zmm
application/vnd.hbci    hbci
# application/vnd.hcl-bireports
# application/vnd.hdt
# application/vnd.heroku+json
application/vnd.hhe.lesson-player  les
application/vnd.hp-hpgl    hpgl
application/vnd.hp-hpid    hpid
application/vnd.hp-hps    hps
application/vnd.hp-jlyt    jlt
application/vnd.hp-pcl    pcl
application/vnd.hp-pclxl   pclxl
# application/vnd.httphone
application/vnd.hydrostatix.sof-data  sfd-hdstx
# application/vnd.hyperdrive+json
# application/vnd.hzn-3d-crossword
# application/vnd.ibm.afplinedata
# application/vnd.ibm.electronic-media
application/vnd.ibm.minipay   mpy
application/vnd.ibm.modcap   afp listafp list3820
application/vnd.ibm.rights-management  irm
application/vnd.ibm.secure-container  sc
application/vnd.iccprofile   icc
 icm
# application/vnd.ieee.1905
application/vnd.igloader   igl
application/vnd.immervision-ivp   ivp
application/vnd.immervision-ivu   ivu
# application/vnd.ims.imsccv1p1
# application/vnd.ims.imsccv1p2
# application/vnd.ims.imsccv1p3
# application/vnd.ims.lis.v2.result+json
```

```
# application/vnd.ims.lti.v2.toolconsumerprofile+json
# application/vnd.ims.lti.v2.toolproxy+json
# application/vnd.ims.lti.v2.toolproxy.id+json
# application/vnd.ims.lti.v2.toolsettings+json
# application/vnd.ims.lti.v2.toolsettings.simple+json
# application/vnd.informedcontrol.rms+xml
# application/vnd.informix-visionary
# application/vnd.infotech.project
# application/vnd.infotech.project+xml
# application/vnd.innopath.wamp.notification
application/vnd.insors.igm   igm
application/vnd.intercon.formnet  xpw xpx
application/vnd.intergeo   i2g
# application/vnd.intertrust.digibox
# application/vnd.intertrust.nncp
application/vnd.intu.qbo   qbo
application/vnd.intu.qfx   qfx
#
 application/vnd.iptc.g2.catalogitem+xml
# application/vnd.iptc.g2.conceptitem+xml
# application/vnd.iptc.g2.knowledgeitem+xml
# application/vnd.iptc.g2.newsitem+xml
# application/vnd.iptc.g2.newsmessage+xml
# application/vnd.iptc.g2.packageitem+xml
# application/vnd.iptc.g2.planningitem+xml
application/vnd.ipunplugged.rcprofile  rcprofile
application/vnd.irepository.package+xml  irp
application/vnd.is-xpr    xpr
application/vnd.isac.fcs   fcs
application/vnd.jam    jam
# application/vnd.japannet-directory-service
# application/vnd.japannet-jpnstore-wakeup
# application/vnd.japannet-payment-wakeup
# application/vnd.japannet-registration
# application/vnd.japannet-registration-wakeup
# application/vnd.japannet-setstore-wakeup
# application/vnd.japannet-verification
# application/vnd.japannet-verification-wakeup
application/vnd.jcp.javame.midlet-rms  rms
application/vnd.jisp    jisp
application/vnd.joost.joda-archive  joda
# application/vnd.jsk.isdn-ngn
application/vnd.kahootz    ktz
 ktr
application/vnd.kde.karbon   karbon
application/vnd.kde.kchart   chrt
application/vnd.kde.kformula   kfo
application/vnd.kde.kivio   flw
```

```
application/vnd.kde.kontour   kon
application/vnd.kde.kpresenter   kpr kpt
application/vnd.kde.kspread   ksp
application/vnd.kde.kword   kwd kwt
application/vnd.kenameaapp   htke
application/vnd.kidspiration   kia
application/vnd.kinar    kne knp
application/vnd.koan    skp skd skt skm
application/vnd.kodak-descriptor  sse
application/vnd.las.las+xml   lasxml
# application/vnd.liberty-request+xml
application/vnd.llamagraphics.life-balance.desktop lbd
application/vnd.llamagraphics.life-balance.exchange+xml lbe
application/vnd.lotus-1-2-3   123
application/vnd.lotus-approach   apr
application/vnd.lotus-freelance   pre
application/vnd.lotus-notes   nsf
application/vnd.lotus-organizer   org
application/vnd.lotus-screencam   scm
application/vnd.lotus-wordpro   lwp
application/vnd.macports.portpkg  portpkg
# application/vnd.mapbox-vector-tile
# application/vnd.marlin.drm.actiontoken+xml
#
 application/vnd.marlin.drm.conftoken+xml
# application/vnd.marlin.drm.license+xml
# application/vnd.marlin.drm.mdcf
# application/vnd.mason+json
# application/vnd.maxmind.maxmind-db
application/vnd.mcd    mcd
application/vnd.medcalcdata   mc1
application/vnd.mediastation.cdkey  cdkey
# application/vnd.meridian-slingshot
application/vnd.mfer    mwf
application/vnd.mfmp    mfm
# application/vnd.micro+json
application/vnd.micrografx.flo   flo
application/vnd.micrografx.igx   igx
# application/vnd.microsoft.portable-executable
# application/vnd.miele+json
application/vnd.mif    mif
# application/vnd.minisoft-hp3000-save
# application/vnd.mitsubishi.misty-guard.trustweb
application/vnd.mobius.daf   daf
application/vnd.mobius.dis   dis
application/vnd.mobius.mbk   mbk
application/vnd.mobius.mqy   mqy
application/vnd.mobius.msl   msl
```

```
application/vnd.mobius.plc   plc
application/vnd.mobius.txf   txf
application/vnd.mophun.application  mpn
application/vnd.mophun.certificate  mpc
#
 application/vnd.motorola.flexsuite
# application/vnd.motorola.flexsuite.adsi
# application/vnd.motorola.flexsuite.fis
# application/vnd.motorola.flexsuite.gotap
# application/vnd.motorola.flexsuite.kmr
# application/vnd.motorola.flexsuite.ttc
# application/vnd.motorola.flexsuite.wem
# application/vnd.motorola.iprm
application/vnd.mozilla.xul+xml   xul
# application/vnd.ms-3mfdocument
application/vnd.ms-artgalry   cil
# application/vnd.ms-asf
application/vnd.ms-cab-compressed  cab
# application/vnd.ms-color.iccprofile
application/vnd.ms-excel   xls xlm xla xlc xlt xlw
application/vnd.ms-excel.addin.macroenabled.12  xlam
application/vnd.ms-excel.sheet.binary.macroenabled.12 xlsb
application/vnd.ms-excel.sheet.macroenabled.12  xlsm
application/vnd.ms-excel.template.macroenabled.12 xltm
application/vnd.ms-fontobject   eot
application/vnd.ms-htmlhelp   chm
application/vnd.ms-ims    ims
application/vnd.ms-lrm    lrm
# application/vnd.ms-office.activex+xml
application/vnd.ms-officetheme   thmx
#
 application/vnd.ms-opentype
# application/vnd.ms-package.obfuscated-opentype
application/vnd.ms-pki.seccat   cat
application/vnd.ms-pki.stl   stl
# application/vnd.ms-playready.initiator+xml
application/vnd.ms-powerpoint   ppt pps pot
application/vnd.ms-powerpoint.addin.macroenabled.12  ppam
application/vnd.ms-powerpoint.presentation.macroenabled.12 pptm
application/vnd.ms-powerpoint.slide.macroenabled.12  sldm
application/vnd.ms-powerpoint.slideshow.macroenabled.12  ppsm
application/vnd.ms-powerpoint.template.macroenabled.12  potm
# application/vnd.ms-printdevicecapabilities+xml
# application/vnd.ms-printing.printticket+xml
# application/vnd.ms-printschematicket+xml
application/vnd.ms-project   mpp mpt
# application/vnd.ms-tnef
# application/vnd.ms-windows.devicepairing
```

```
# application/vnd.ms-windows.nwprinting.oob
# application/vnd.ms-windows.printerpairing
# application/vnd.ms-windows.wsd.oob
# application/vnd.ms-wmdrm.lic-chlg-req
# application/vnd.ms-wmdrm.lic-resp
#
 application/vnd.ms-wmdrm.meter-chlg-req
# application/vnd.ms-wmdrm.meter-resp
application/vnd.ms-word.document.macroenabled.12 docm
application/vnd.ms-word.template.macroenabled.12 dotm
application/vnd.ms-works   wps wks wcm wdb
application/vnd.ms-wpl    wpl
application/vnd.ms-xpsdocument   xps
# application/vnd.msa-disk-image
application/vnd.mseq    mseq
# application/vnd.msign
# application/vnd.multiad.creator
# application/vnd.multiad.creator.cif
# application/vnd.music-niff
application/vnd.musician   mus
application/vnd.muvee.style   msty
application/vnd.mynfc    taglet
# application/vnd.ncd.control
# application/vnd.ncd.reference
# application/vnd.nervana
# application/vnd.netfpx
application/vnd.neurolanguage.nlu  nlu
# application/vnd.nintendo.nitro.rom
# application/vnd.nintendo.snes.rom
application/vnd.nitf    ntf nitf
application/vnd.noblenet-directory  nnd
application/vnd.noblenet-sealer   nns
application/vnd.noblenet-web   nnw
# application/vnd.nokia.catalogs
#
 application/vnd.nokia.conml+wbxml
# application/vnd.nokia.conml+xml
# application/vnd.nokia.iptv.config+xml
# application/vnd.nokia.isds-radio-presets
# application/vnd.nokia.landmark+wbxml
# application/vnd.nokia.landmark+xml
# application/vnd.nokia.landmarkcollection+xml
# application/vnd.nokia.n-gage.ac+xml
application/vnd.nokia.n-gage.data  ngdat
application/vnd.nokia.n-gage.symbian.install n-gage
# application/vnd.nokia.ncd
# application/vnd.nokia.pcd+wbxml
# application/vnd.nokia.pcd+xml
```

```
application/vnd.nokia.radio-preset  rpst
application/vnd.nokia.radio-presets  rpss
application/vnd.novadigm.edm   edm
application/vnd.novadigm.edx   edx
application/vnd.novadigm.ext   ext
# application/vnd.ntt-local.content-share
# application/vnd.ntt-local.file-transfer
# application/vnd.ntt-local.ogw_remote-access
# application/vnd.ntt-local.sip-ta_remote
# application/vnd.ntt-local.sip-ta_tcp_stream
application/vnd.oasis.opendocument.chart  odc
application/vnd.oasis.opendocument.chart-template otc
application/vnd.oasis.opendocument.database  odb
application/vnd.oasis.opendocument.formula  odf
application/vnd.oasis.opendocument.formula-template odft
application/vnd.oasis.opendocument.graphics  odg
application/vnd.oasis.opendocument.graphics-template otg
application/vnd.oasis.opendocument.image  odi
application/vnd.oasis.opendocument.image-template oti
application/vnd.oasis.opendocument.presentation  odp
application/vnd.oasis.opendocument.presentation-template otp
application/vnd.oasis.opendocument.spreadsheet  ods
application/vnd.oasis.opendocument.spreadsheet-template ots
application/vnd.oasis.opendocument.text   odt
application/vnd.oasis.opendocument.text-master  odm
application/vnd.oasis.opendocument.text-template ott
application/vnd.oasis.opendocument.text-web  oth
#
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# application/vnd.oftn.l10n+json
# application/vnd.oipf.contentaccessdownload+xml
# application/vnd.oipf.contentaccessstreaming+xml
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# application/vnd.oipf.dae.svg+xml
#
 application/vnd.oipf.dae.xhtml+xml
# application/vnd.oipf.mippvcontrolmessage+xml
# application/vnd.oipf.pae.gem
# application/vnd.oipf.spdiscovery+xml
# application/vnd.oipf.spdlist+xml
# application/vnd.oipf.ueprofile+xml
# application/vnd.oipf.userprofile+xml
application/vnd.olpc-sugar   xo
# application/vnd.oma-scws-config
# application/vnd.oma-scws-http-request
# application/vnd.oma-scws-http-response
# application/vnd.oma.bcast.associated-procedure-parameter+xml
# application/vnd.oma.bcast.drm-trigger+xml
```

```
# application/vnd.oma.bcast.imd+xml
# application/vnd.oma.bcast.ltkm
# application/vnd.oma.bcast.notification+xml
# application/vnd.oma.bcast.provisioningtrigger
# application/vnd.oma.bcast.sgboot
# application/vnd.oma.bcast.sgdd+xml
# application/vnd.oma.bcast.sgdu
# application/vnd.oma.bcast.simple-symbol-container
# application/vnd.oma.bcast.smartcard-trigger+xml
# application/vnd.oma.bcast.sprov+xml
# application/vnd.oma.bcast.stkm
# application/vnd.oma.cab-address-book+xml
#
 application/vnd.oma.cab-feature-handler+xml
# application/vnd.oma.cab-pcc+xml
# application/vnd.oma.cab-subs-invite+xml
# application/vnd.oma.cab-user-prefs+xml
# application/vnd.oma.dcd
# application/vnd.oma.dcdc
application/vnd.oma.dd2+xml   dd2
# application/vnd.oma.drm.risd+xml
# application/vnd.oma.group-usage-list+xml
# application/vnd.oma.lwm2m+json
# application/vnd.oma.lwm2m+tlv
# application/vnd.oma.pal+xml
# application/vnd.oma.poc.detailed-progress-report+xml
# application/vnd.oma.poc.final-report+xml
# application/vnd.oma.poc.groups+xml
# application/vnd.oma.poc.invocation-descriptor+xml
# application/vnd.oma.poc.optimized-progress-report+xml
# application/vnd.oma.push
# application/vnd.oma.scidm.messages+xml
# application/vnd.oma.xcap-directory+xml
# application/vnd.omads-email+xml
# application/vnd.omads-file+xml
# application/vnd.omads-folder+xml
# application/vnd.omaloc-supl-init
# application/vnd.onepager
# application/vnd.openblox.game+xml
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 application/vnd.openblox.game-binary
# application/vnd.openeye.oeb
application/vnd.openofficeorg.extension  oxt
# application/vnd.openxmlformats-officedocument.custom-properties+xml
# application/vnd.openxmlformats-officedocument.customxmlproperties+xml
# application/vnd.openxmlformats-officedocument.drawing+xml
# application/vnd.openxmlformats-officedocument.drawingml.chart+xml
# application/vnd.openxmlformats-officedocument.drawingml.chartshapes+xml
```

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application/vnd.openxmlformats-officedocument.presentationml.comments+xml
application/vnd.openxmlformats-officedocument.presentationml.handoutmaster+xml
#
application/vnd.openxmlformats-officedocument.presentationml.notesmaster+xml
application/vnd.openxmlformats-officedocument.presentationml.notesslide+xml
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application/vnd.openxmlformats-officedocument.presentationml.presentation.main+xml
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application/vnd.openxmlformats-officedocument.presentationml.slide+xml
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#
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application/vnd.openxmlformats-officedocument.presentationml.tags+xml
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application/vnd.openxmlformats-officedocument.spreadsheetml.chartsheet+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.comments+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.connections+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.dialogsheet+xml
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application/vnd.openxmlformats-officedocument.spreadsheetml.pivotcacherecords+xml
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application/vnd.openxmlformats-officedocument.spreadsheetml.querytable+xml
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application/vnd.openxmlformats-officedocument.spreadsheetml.revisionlog+xml
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application/vnd.openxmlformats-officedocument.spreadsheetml.sheet xlsx
application/vnd.openxmlformats-officedocument.spreadsheetml.sheet.main+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.sheetmetadata+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.styles+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.table+xml
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application/vnd.openxmlformats-officedocument.spreadsheetml.template xltx

```
# application/vnd.openxmlformats-officedocument.spreadsheetml.template.main+xml
#
 application/vnd.openxmlformats-officedocument.spreadsheetml.usernames+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.volatiledependencies+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.worksheet+xml
# application/vnd.openxmlformats-officedocument.theme+xml
# application/vnd.openxmlformats-officedocument.themeoverride+xml
# application/vnd.openxmlformats-officedocument.vmldrawing
# application/vnd.openxmlformats-officedocument.wordprocessingml.comments+xml
application/vnd.openxmlformats-officedocument.wordprocessingml.document docx
# application/vnd.openxmlformats-officedocument.wordprocessingml.document.glossary+xml
# application/vnd.openxmlformats-officedocument.wordprocessingml.document.main+xml
# application/vnd.openxmlformats-officedocument.wordprocessingml.endnotes+xml
# application/vnd.openxmlformats-officedocument.wordprocessingml.fonttable+xml
# application/vnd.openxmlformats-officedocument.wordprocessingml.footer+xml
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# application/vnd.openxmlformats-officedocument.wordprocessingml.numbering+xml
# application/vnd.openxmlformats-officedocument.wordprocessingml.settings+xml
# application/vnd.openxmlformats-officedocument.wordprocessingml.styles+xml
application/vnd.openxmlformats-officedocument.wordprocessingml.template dotx
# application/vnd.openxmlformats-officedocument.wordprocessingml.template.main+xml
# application/vnd.openxmlformats-officedocument.wordprocessingml.websettings+xml
# application/vnd.openxmlformats-package.core-properties+xml
# application/vnd.openxmlformats-package.digital-signature-xmlsignature+xml
# application/vnd.openxmlformats-package.relationships+xml
# application/vnd.oracle.resource+json
# application/vnd.orange.indata
# application/vnd.osa.netdeploy
application/vnd.osgeo.mapguide.package  mgp
# application/vnd.osgi.bundle
application/vnd.osgi.dp    dp
application/vnd.osgi.subsystem   esa
#
 application/vnd.otps.ct-kip+xml
# application/vnd.oxli.countgraph
# application/vnd.pagerduty+json
application/vnd.palm    pdb pqa oprc
# application/vnd.panoply
# application/vnd.paos.xml
application/vnd.pawaafile   paw
# application/vnd.pcos
application/vnd.pg.format   str
application/vnd.pg.osasli   ei6
# application/vnd.piaccess.application-licence
application/vnd.picsel    efif
application/vnd.pmi.widget   wg
# application/vnd.poc.group-advertisement+xml
```

```
application/vnd.pocketlearn   plf
application/vnd.powerbuilder6   pbd
# application/vnd.powerbuilder6-s
# application/vnd.powerbuilder7
# application/vnd.powerbuilder7-s
# application/vnd.powerbuilder75
# application/vnd.powerbuilder75-s
# application/vnd.preminet
application/vnd.previewsystems.box  box
application/vnd.proteus.magazine  mgz
application/vnd.publishare-delta-tree  qps
application/vnd.pvi.ptid1   ptid
# application/vnd.pwg-multiplexed
# application/vnd.pwg-xhtml-print+xml
# application/vnd.qualcomm.brew-app-res
#
 application/vnd.quarantainenet
application/vnd.quark.quarkxpress  qxd qxt qwd qwt qxl qxb
# application/vnd.quobject-quoxdocument
# application/vnd.radisys.moml+xml
# application/vnd.radisys.msml+xml
# application/vnd.radisys.msml-audit+xml
# application/vnd.radisys.msml-audit-conf+xml
# application/vnd.radisys.msml-audit-conn+xml
# application/vnd.radisys.msml-audit-dialog+xml
# application/vnd.radisys.msml-audit-stream+xml
# application/vnd.radisys.msml-conf+xml
# application/vnd.radisys.msml-dialog+xml
# application/vnd.radisys.msml-dialog-base+xml
# application/vnd.radisys.msml-dialog-fax-detect+xml
# application/vnd.radisys.msml-dialog-fax-sendrecv+xml
# application/vnd.radisys.msml-dialog-group+xml
# application/vnd.radisys.msml-dialog-speech+xml
# application/vnd.radisys.msml-dialog-transform+xml
# application/vnd.rainstor.data
# application/vnd.rapid
# application/vnd.rar
application/vnd.realvnc.bed   bed
application/vnd.recordare.musicxml  mxl
application/vnd.recordare.musicxml+xml  musicxml
#
 application/vnd.renlearn.rlprint
application/vnd.rig.cryptonote   cryptonote
application/vnd.rim.cod    cod
application/vnd.rn-realmedia   rm
application/vnd.rn-realmedia-vbr  rmvb
application/vnd.route66.link66+xml  link66
# application/vnd.rs-274x
```

```
# application/vnd.ruckus.download
# application/vnd.s3sms
application/vnd.sailingtracker.track  st
# application/vnd.sbm.cid
# application/vnd.sbm.mid2
# application/vnd.scribus
# application/vnd.sealed.3df
# application/vnd.sealed.csf
# application/vnd.sealed.doc
# application/vnd.sealed.eml
# application/vnd.sealed.mht
# application/vnd.sealed.net
# application/vnd.sealed.ppt
# application/vnd.sealed.tiff
# application/vnd.sealed.xls
# application/vnd.sealedmedia.softseal.html
# application/vnd.sealedmedia.softseal.pdf
application/vnd.seemail    see
application/vnd.sema    sema
application/vnd.semd    semd
application/vnd.semf    semf
application/vnd.shana.informed.formdata  ifm
application/vnd.shana.informed.formtemplate itp
application/vnd.shana.informed.interchange iif
application/vnd.shana.informed.package  ipk
application/vnd.simtech-mindmapper  twd
 twds
# application/vnd.siren+json
application/vnd.smaf    mmf
# application/vnd.smart.notebook
application/vnd.smart.teacher   teacher
# application/vnd.software602.filler.form+xml
# application/vnd.software602.filler.form-xml-zip
application/vnd.solent.sdkm+xml   sdkm sdkd
application/vnd.spotfire.dxp   dxp
application/vnd.spotfire.sfs   sfs
# application/vnd.sss-cod
# application/vnd.sss-dtf
# application/vnd.sss-ntf
application/vnd.stardivision.calc  sdc
application/vnd.stardivision.draw  sda
application/vnd.stardivision.impress  sdd
application/vnd.stardivision.math  smf
application/vnd.stardivision.writer  sdw vor
application/vnd.stardivision.writer-global sgl
application/vnd.stepmania.package  smzip
application/vnd.stepmania.stepchart  sm
# application/vnd.street-stream
```

```
# application/vnd.sun.wadl+xml
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application/vnd.sun.xml.calc.template  stc
application/vnd.sun.xml.draw   sxd
application/vnd.sun.xml.draw.template  std
application/vnd.sun.xml.impress   sxi
application/vnd.sun.xml.impress.template sti
application/vnd.sun.xml.math   sxm
application/vnd.sun.xml.writer   sxw
application/vnd.sun.xml.writer.global  sxg
application/vnd.sun.xml.writer.template  stw
application/vnd.sus-calendar   sus
 susp
application/vnd.svd    svd
# application/vnd.swiftview-ics
application/vnd.symbian.install   sis sisx
application/vnd.syncml+xml   xsm
application/vnd.syncml.dm+wbxml   bdm
application/vnd.syncml.dm+xml   xdm
# application/vnd.syncml.dm.notification
# application/vnd.syncml.dmddf+wbxml
# application/vnd.syncml.dmddf+xml
# application/vnd.syncml.dmtnds+wbxml
# application/vnd.syncml.dmtnds+xml
# application/vnd.syncml.ds.notification
application/vnd.tao.intent-module-archive tao
application/vnd.tcpdump.pcap   pcap cap dmp
# application/vnd.tmd.mediaflex.api+xml
# application/vnd.tml
application/vnd.tmobile-livetv   tmo
application/vnd.trid.tpt   tpt
application/vnd.triscape.mxs   mxs
application/vnd.trueapp    tra
#
 application/vnd.truedoc
# application/vnd.ubisoft.webplayer
application/vnd.ufdl    ufd ufdl
application/vnd.uiq.theme   utz
application/vnd.umajin    umj
application/vnd.unity    unityweb
application/vnd.uoml+xml   uoml
# application/vnd.uplanet.alert
# application/vnd.uplanet.alert-wbxml
# application/vnd.uplanet.bearer-choice
# application/vnd.uplanet.bearer-choice-wbxml
# application/vnd.uplanet.cacheop
# application/vnd.uplanet.cacheop-wbxml
# application/vnd.uplanet.channel
```

```
# application/vnd.uplanet.channel-wbxml
# application/vnd.uplanet.list
# application/vnd.uplanet.list-wbxml
# application/vnd.uplanet.listcmd
# application/vnd.uplanet.listcmd-wbxml
# application/vnd.uplanet.signal
# application/vnd.uri-map
# application/vnd.valve.source.material
application/vnd.vcx    vcx
# application/vnd.vd-study
# application/vnd.vectorworks
# application/vnd.vel+json
#
 application/vnd.verimatrix.vcas
# application/vnd.vidsoft.vidconference
application/vnd.visio    vsd vst vss vsw
application/vnd.visionary   vis
# application/vnd.vividence.scriptfile
application/vnd.vsf    vsf
# application/vnd.wap.sic
# application/vnd.wap.slc
application/vnd.wap.wbxml   wbxml
application/vnd.wap.wmlc   wmlc
application/vnd.wap.wmlscriptc   wmlsc
application/vnd.webturbo   wtb
# application/vnd.wfa.p2p
# application/vnd.wfa.wsc
# application/vnd.windows.devicepairing
# application/vnd.wmc
# application/vnd.wmf.bootstrap
# application/vnd.wolfram.mathematica
# application/vnd.wolfram.mathematica.package
application/vnd.wolfram.player   nbp
application/vnd.wordperfect   wpd
application/vnd.wqd    wqd
# application/vnd.wrq-hp3000-labelled
application/vnd.wt.stf    stf
# application/vnd.wv.csp+wbxml
# application/vnd.wv.csp+xml
# application/vnd.wv.ssp+xml
# application/vnd.xacml+json
application/vnd.xara    xar
application/vnd.xfdl    xfdl
# application/vnd.xfdl.webform
#
 application/vnd.xmi+xml
# application/vnd.xmpie.cpkg
# application/vnd.xmpie.dpkg
```

```
# application/vnd.xmpie.plan
# application/vnd.xmpie.ppkg
# application/vnd.xmpie.xlim
application/vnd.yamaha.hv-dic   hvd
application/vnd.yamaha.hv-script  hvs
application/vnd.yamaha.hv-voice   hvp
application/vnd.yamaha.openscoreformat   osf
application/vnd.yamaha.openscoreformat.osfpvg+xml osfpvg
# application/vnd.yamaha.remote-setup
application/vnd.yamaha.smaf-audio  saf
application/vnd.yamaha.smaf-phrase  spf
# application/vnd.yamaha.through-ngn
# application/vnd.yamaha.tunnel-udpencap
# application/vnd.yaoweme
application/vnd.yellowriver-custom-menu  cmp
application/vnd.zul    zir zirz
application/vnd.zzazz.deck+xml   zaz
application/voicexml+xml   vxml
# application/vq-rtcpxr
# application/watcherinfo+xml
# application/whoispp-query
# application/whoispp-response
application/widget    wgt
application/winhlp    hlp
# application/wita
# application/wordperfect5.1
application/wsdl+xml    wsdl
application/wspolicy+xml   wspolicy
application/x-7z-compressed   7z
application/x-abiword    abw
application/x-ace-compressed   ace
#
 application/x-amf
application/x-apple-diskimage   dmg
application/x-authorware-bin   aab x32 u32 vox
application/x-authorware-map   aam
application/x-authorware-seg   aas
application/x-bcpio    bcpio
application/x-bittorrent   torrent
application/x-blorb    blb blorb
application/x-bzip    bz
application/x-bzip2    bz2 boz
application/x-cbr    cbr cba cbt cbz cb7
application/x-cdlink    vcd
application/x-cfs-compressed   cfs
application/x-chat    chat
application/x-chess-pgn    pgn
# application/x-compress
```

```
application/x-conference   nsc
application/x-cpio    cpio
application/x-csh    csh
application/x-debian-package   deb udeb
application/x-dgc-compressed   dgc
application/x-director   dir dcr dxr cst cct cxt w3d fgd swa
application/x-doom    wad
application/x-dtbncx+xml   ncx
application/x-dtbook+xml   dtb
application/x-dtbresource+xml   res
application/x-dvi    dvi
application/x-envoy    evy
application/x-eva    eva
application/x-font-bdf    bdf
#
 application/x-font-dos
# application/x-font-framemaker
application/x-font-ghostscript   gsf
# application/x-font-libgrx
application/x-font-linux-psf   psf
application/x-font-otf    otf
application/x-font-pcf    pcf
application/x-font-snf    snf
# application/x-font-speedo
# application/x-font-sunos-news
application/x-font-ttf    ttf ttc
application/x-font-type1   pfa pfb pfm afm
# application/x-font-vfont
application/x-freearc    arc
application/x-futuresplash   spl
application/x-gca-compressed   gca
application/x-glulx    ulx
application/x-gnumeric    gnumeric
application/x-gramps-xml   gramps
application/x-gtar    gtar
# application/x-gzip
application/x-hdf    hdf
application/x-install-instructions  install
application/x-iso9660-image   iso
application/x-java-jnlp-file   jnlp
application/x-latex    latex
application/x-lzh-compressed   lzh lha
application/x-mie    mie
application/x-mobipocket-ebook   prc
 mobi
application/x-ms-application   application
application/x-ms-shortcut   lnk
application/x-ms-wmd    wmd
```

```
application/x-ms-wmz    wmz
application/x-ms-xbap    xbap
application/x-msaccess    mdb
application/x-msbinder    obd
application/x-mscardfile   crd
application/x-msclip    clp
application/x-msdownload   exe dll com bat msi
application/x-msmediaview   mvb m13 m14
application/x-msmetafile   wmf wmz emf emz
application/x-msmoney    mny
application/x-mspublisher   pub
application/x-msschedule   scd
application/x-msterminal   trm
application/x-mswrite    wri
application/x-netcdf    nc cdf
application/x-nzb    nzb
application/x-pkcs12    p12 pfx
application/x-pkcs7-certificates  p7b spc
application/x-pkcs7-certreqresp   p7r
application/x-rar-compressed   rar
application/x-research-info-systems  ris
application/x-sh    sh
application/x-shar    shar
application/x-shockwave-flash   swf
application/x-silverlight-app   xap
application/x-sql    sql
application/x-stuffit    sit
application/x-stuffitx    sitx
application/x-subrip    srt
application/x-sv4cpio    sv4cpio
application/x-sv4crc    sv4crc
application/x-t3vm-image   t3
application/x-tads    gam
application/x-tar    tar
application/x-tcl    tcl
application/x-tex    tex
application/x-tex-tfm    tfm
application/x-texinfo    texinfo
 texi
application/x-tgif    obj
application/x-ustar    ustar
application/x-wais-source   src
# application/x-www-form-urlencoded
application/x-x509-ca-cert   der crt
application/x-xfig    fig
application/x-xliff+xml    xlf
application/x-xpinstall    xpi
application/x-xz    xz
```

```
application/x-zmachine    z1 z2 z3 z4 z5 z6 z7 z8
# application/x400-bp
# application/xacml+xml
application/xaml+xml    xaml
# application/xcap-att+xml
# application/xcap-caps+xml
application/xcap-diff+xml   xdf
# application/xcap-el+xml
# application/xcap-error+xml
# application/xcap-ns+xml
# application/xcon-conference-info+xml
# application/xcon-conference-info-diff+xml
application/xenc+xml    xenc
application/xhtml+xml    xhtml
 xht
# application/xhtml-voice+xml
application/xml     xml xsl
application/xml-dtd    dtd
# application/xml-external-parsed-entity
# application/xml-patch+xml
# application/xmpp+xml
application/xop+xml    xop
application/xproc+xml    xpl
application/xslt+xml    xslt
application/xspf+xml    xspf
application/xv+xml    mxml xhvml xvml xvm
application/yang    yang
application/yin+xml    yin
application/zip     zip
# application/zlib
# audio/1d-interleaved-parityfec
# audio/32kadpcm
# audio/3gpp
# audio/3gpp2
# audio/ac3
audio/adpcm     adp
# audio/amr
# audio/amr-wb
# audio/amr-wb+
# audio/aptx
# audio/asc
# audio/atrac-advanced-lossless
# audio/atrac-x
# audio/atrac3
audio/basic     au snd
# audio/bv16
# audio/bv32
# audio/clearmode
```

audio/cn
audio/dat12
audio/dls
audio/dsr-es201108
audio/dsr-es202050
audio/dsr-es202211
audio/dsr-es202212
audio/dv
audio/dvi4
audio/eac3
audio/encaprtp
audio/evrc
audio/evrc-qcp
audio/evrc0
audio/evrc1
#
audio/evrcb
audio/evrcb0
audio/evrcb1
audio/evrcnw
audio/evrcnw0
audio/evrcnw1
audio/evrcwb
audio/evrcwb0
audio/evrcwb1
audio/evs
audio/example
audio/fwdred
audio/g711-0
audio/g719
audio/g722
audio/g7221
audio/g723
audio/g726-16
audio/g726-24
audio/g726-32
audio/g726-40
audio/g728
audio/g729
audio/g7291
audio/g729d
audio/g729e
audio/gsm
audio/gsm-efr
audio/gsm-hr-08
audio/ilbc
audio/ip-mr_v2.5
audio/isac

audio/l16
audio/l20
audio/l24
audio/l8
audio/lpc
audio/midi mid midi kar rmi
audio/mobile-xmf
audio/mp4 m4a mp4a
audio/mp4a-latm
audio/mpa
audio/mpa-robust
audio/mpeg mpga mp2 mp2a mp3 m2a m3a
audio/mpeg4-generic
audio/musepack
audio/ogg oga ogg spx
audio/opus
audio/parityfec
audio/pcma
audio/pcma-wb
audio/pcmu
audio/pcmu-wb
audio/prs.sid
audio/qcelp
audio/raptorfec
audio/red
audio/rtp-enc-aescm128
audio/rtp-midi
audio/rtploopback
audio/rtx
audio/s3m s3m
audio/silk sil
#
audio/smv
audio/smv-qcp
audio/smv0
audio/sp-midi
audio/speex
audio/t140c
audio/t38
audio/telephone-event
audio/tone
audio/uemclip
audio/ulpfec
audio/vdvi
audio/vmr-wb
audio/vnd.3gpp.iufp
audio/vnd.4sb
audio/vnd.audiokoz

```
# audio/vnd.celp
# audio/vnd.cisco.nse
# audio/vnd.cmles.radio-events
# audio/vnd.cns.anp1
# audio/vnd.cns.inf1
audio/vnd.dece.audio    uva uvva
audio/vnd.digital-winds    eol
# audio/vnd.dlna.adts
# audio/vnd.dolby.heaac.1
# audio/vnd.dolby.heaac.2
# audio/vnd.dolby.mlp
# audio/vnd.dolby.mps
# audio/vnd.dolby.pl2
# audio/vnd.dolby.pl2x
# audio/vnd.dolby.pl2z
# audio/vnd.dolby.pulse.1
audio/vnd.dra     dra
audio/vnd.dts     dts
audio/vnd.dts.hd    dtshd
# audio/vnd.dvb.file
# audio/vnd.everad.plj
# audio/vnd.hns.audio
audio/vnd.lucent.voice    lvp
audio/vnd.ms-playready.media.pya  pya
# audio/vnd.nokia.mobile-xmf
# audio/vnd.nortel.vbk
audio/vnd.nuera.ecelp4800   ecelp4800
audio/vnd.nuera.ecelp7470   ecelp7470
audio/vnd.nuera.ecelp9600   ecelp9600
#
 audio/vnd.octel.sbc
# audio/vnd.qcelp
# audio/vnd.rhetorex.32kadpcm
audio/vnd.rip     rip
# audio/vnd.sealedmedia.softseal.mpeg
# audio/vnd.vmx.cvsd
# audio/vorbis
# audio/vorbis-config
audio/webm     weba
audio/x-aac     aac
audio/x-aiff     aif aiff aifc
audio/x-caf     caf
audio/x-flac     flac
audio/x-matroska    mka
audio/x-mpegurl     m3u
audio/x-ms-wax     wax
audio/x-ms-wma     wma
audio/x-pn-realaudio    ram ra
```

```
audio/x-pn-realaudio-plugin   rmp
# audio/x-tta
audio/x-wav     wav
audio/xm     xm
chemical/x-cdx     cdx
chemical/x-cif     cif
chemical/x-cmdf     cmdf
chemical/x-cml     cml
chemical/x-csml     csml
# chemical/x-pdb
chemical/x-xyz     xyz
image/bmp     bmp
image/cgm     cgm
# image/dicom-rle
# image/emf
# image/example
# image/fits
image/g3fax     g3
image/gif     gif
image/ief     ief
# image/jls
# image/jp2
image/jpeg     jpeg jpg jpe
# image/jpm
# image/jpx
image/ktx     ktx
# image/naplps
image/png     png
image/prs.btif     btif
#
 image/prs.pti
# image/pwg-raster
image/sgi     sgi
image/svg+xml     svg svgz
# image/t38
image/tiff     tiff tif
# image/tiff-fx
image/vnd.adobe.photoshop   psd
# image/vnd.airzip.accelerator.azv
# image/vnd.cns.inf2
image/vnd.dece.graphic    uvi uvvi uvg uvvg
image/vnd.djvu     djvu djv
image/vnd.dvb.subtitle    sub
image/vnd.dwg     dwg
image/vnd.dxf     dxf
image/vnd.fastbidsheet    fbs
image/vnd.fpx     fpx
image/vnd.fst     fst
```

```
image/vnd.fujixerox.edmics-mmr   mmr
image/vnd.fujixerox.edmics-rlc   rlc
# image/vnd.globalgraphics.pgb
# image/vnd.microsoft.icon
# image/vnd.mix
# image/vnd.mozilla.apng
image/vnd.ms-modi    mdi
image/vnd.ms-photo    wdp
image/vnd.net-fpx    npx
# image/vnd.radiance
# image/vnd.sealed.png
# image/vnd.sealedmedia.softseal.gif
# image/vnd.sealedmedia.softseal.jpg
# image/vnd.svf
# image/vnd.tencent.tap
# image/vnd.valve.source.texture
image/vnd.wap.wbmp    wbmp
image/vnd.xiff     xif
# image/vnd.zbrush.pcx
image/webp     webp
# image/wmf
image/x-3ds     3ds
image/x-cmu-raster    ras
image/x-cmx     cmx
image/x-freehand    fh
 fhc fh4 fh5 fh7
image/x-icon     ico
image/x-mrsid-image    sid
image/x-pcx     pcx
image/x-pict     pic pct
image/x-portable-anymap    pnm
image/x-portable-bitmap    pbm
image/x-portable-graymap   pgm
image/x-portable-pixmap    ppm
image/x-rgb     rgb
image/x-tga     tga
image/x-xbitmap     xbm
image/x-xpixmap     xpm
image/x-xwindowdump    xwd
# message/cpim
# message/delivery-status
# message/disposition-notification
# message/example
# message/external-body
# message/feedback-report
# message/global
# message/global-delivery-status
# message/global-disposition-notification
```

```
# message/global-headers
# message/http
# message/imdn+xml
# message/news
# message/partial
message/rfc822	eml mime
# message/s-http
# message/sip
# message/sipfrag
# message/tracking-status
# message/vnd.si.simp
# message/vnd.wfa.wsc
# model/example
# model/gltf+json
model/iges	igs iges
model/mesh	msh mesh silo
model/vnd.collada+xml	dae
model/vnd.dwf	dwf
#
 model/vnd.flatland.3dml
model/vnd.gdl	gdl
# model/vnd.gs-gdl
# model/vnd.gs.gdl
model/vnd.gtw	gtw
# model/vnd.moml+xml
model/vnd.mts	mts
# model/vnd.opengex
# model/vnd.parasolid.transmit.binary
# model/vnd.parasolid.transmit.text
# model/vnd.rosette.annotated-data-model
# model/vnd.valve.source.compiled-map
model/vnd.vtu	vtu
model/vrml	wrl vrml
model/x3d+binary	x3db x3dbz
# model/x3d+fastinfoset
model/x3d+vrml	x3dv x3dvz
model/x3d+xml	x3d x3dz
# model/x3d-vrml
# multipart/alternative
# multipart/appledouble
# multipart/byteranges
# multipart/digest
# multipart/encrypted
# multipart/example
# multipart/form-data
# multipart/header-set
# multipart/mixed
# multipart/parallel
```

```
# multipart/related
# multipart/report
# multipart/signed
# multipart/voice-message
# multipart/x-mixed-replace
# text/1d-interleaved-parityfec
text/cache-manifest	appcache
text/calendar	ics ifb
text/css	css
text/csv	csv
# text/csv-schema
#
 text/directory
# text/dns
# text/ecmascript
# text/encaprtp
# text/enriched
# text/example
# text/fwdred
# text/grammar-ref-list
text/html	html htm
# text/javascript
# text/jcr-cnd
# text/markdown
# text/mizar
text/n3	n3
# text/parameters
# text/parityfec
text/plain	txt text conf def list log in
# text/provenance-notation
# text/prs.fallenstein.rst
text/prs.lines.tag	dsc
# text/prs.prop.logic
# text/raptorfec
# text/red
# text/rfc822-headers
text/richtext	rtx
# text/rtf
# text/rtp-enc-aescm128
# text/rtploopback
# text/rtx
text/sgml	sgml sgm
# text/t140
text/tab-separated-values	tsv
text/troff	t tr roff man me ms
text/turtle	ttl
# text/ulpfec
text/uri-list	uri uris urls
```

```
text/vcard     vcard
# text/vnd.a
# text/vnd.abc
text/vnd.curl     curl
text/vnd.curl.dcurl    dcurl
text/vnd.curl.mcurl    mcurl
text/vnd.curl.scurl    scurl
# text/vnd.debian.copyright
# text/vnd.dmclientscript
text/vnd.dvb.subtitle    sub
# text/vnd.esmertec.theme-descriptor
text/vnd.fly     fly
text/vnd.fmi.flexstor    flx
text/vnd.graphviz    gv
text/vnd.in3d.3dml    3dml
text/vnd.in3d.spot    spot
#
 text/vnd.iptc.newsml
# text/vnd.iptc.nitf
# text/vnd.latex-z
# text/vnd.motorola.reflex
# text/vnd.ms-mediapackage
# text/vnd.net2phone.commcenter.command
# text/vnd.radisys.msml-basic-layout
# text/vnd.si.uricatalogue
text/vnd.sun.j2me.app-descriptor  jad
# text/vnd.trolltech.linguist
# text/vnd.wap.si
# text/vnd.wap.sl
text/vnd.wap.wml    wml
text/vnd.wap.wmlscript    wmls
text/x-asm     s asm
text/x-c     c cc cxx cpp h hh dic
text/x-fortran     f for f77 f90
text/x-java-source    java
text/x-nfo     nfo
text/x-opml     opml
text/x-pascal     p pas
text/x-setext     etx
text/x-sfv     sfv
text/x-uuencode     uu
text/x-vcalendar    vcs
text/x-vcard     vcf
# text/xml
# text/xml-external-parsed-entity
# video/1d-interleaved-parityfec
video/3gpp     3gp
# video/3gpp-tt
```

```
video/3gpp2     3g2
# video/bmpeg
# video/bt656
# video/celb
# video/dv
# video/encaprtp
#
 video/example
video/h261     h261
video/h263     h263
# video/h263-1998
# video/h263-2000
video/h264     h264
# video/h264-rcdo
# video/h264-svc
# video/h265
# video/iso.segment
video/jpeg     jpgv
# video/jpeg2000
video/jpm     jpm jpgm
video/mj2     mj2 mjp2
# video/mp1s
# video/mp2p
# video/mp2t
video/mp4     mp4 mp4v mpg4
# video/mp4v-es
video/mpeg     mpeg mpg mpe m1v m2v
# video/mpeg4-generic
# video/mpv
# video/nv
video/ogg     ogv
# video/parityfec
# video/pointer
video/quicktime     qt mov
# video/raptorfec
# video/raw
# video/rtp-enc-aescm128
# video/rtploopback
# video/rtx
# video/smpte292m
# video/ulpfec
# video/vc1
# video/vnd.cctv
video/vnd.dece.hd    uvh uvvh
video/vnd.dece.mobile    uvm uvvm
# video/vnd.dece.mp4
video/vnd.dece.pd    uvp uvvp
video/vnd.dece.sd    uvs uvvs
```

```
video/vnd.dece.video    uvv uvvv
# video/vnd.directv.mpeg
# video/vnd.directv.mpeg-tts
# video/vnd.dlna.mpeg-tts
video/vnd.dvb.file    dvb
video/vnd.fvt     fvt
# video/vnd.hns.video
# video/vnd.iptvforum.1dparityfec-1010
#
 video/vnd.iptvforum.1dparityfec-2005
# video/vnd.iptvforum.2dparityfec-1010
# video/vnd.iptvforum.2dparityfec-2005
# video/vnd.iptvforum.ttsavc
# video/vnd.iptvforum.ttsmpeg2
# video/vnd.motorola.video
# video/vnd.motorola.videop
video/vnd.mpegurl    mxu m4u
video/vnd.ms-playready.media.pyv  pyv
# video/vnd.nokia.interleaved-multimedia
# video/vnd.nokia.videovoip
# video/vnd.objectvideo
# video/vnd.radgamettools.bink
# video/vnd.radgamettools.smacker
# video/vnd.sealed.mpeg1
# video/vnd.sealed.mpeg4
# video/vnd.sealed.swf
# video/vnd.sealedmedia.softseal.mov
video/vnd.uvvu.mp4    uvu uvvu
video/vnd.vivo     viv
# video/vp8
video/webm     webm
video/x-f4v     f4v
video/x-fli     fli
video/x-flv     flv
video/x-m4v     m4v
video/x-matroska    mkv mk3d mks
video/x-mng     mng
video/x-ms-asf     asf asx
video/x-ms-vob     vob
video/x-ms-wm     wm
video/x-ms-wmv     wmv
video/x-ms-wmx     wmx
video/x-ms-wvx     wvx
video/x-msvideo     avi
video/x-sgi-movie    movie
video/x-smv     smv
x-conference/x-cooltalk    ice
```

Found
in path(s):
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/http/mime.types
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```
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```

Found in path(s):
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/http/HttpMessage.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/web/server/WebFilter.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/web/util/HttpSessionMutexListener.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/web/filter/CommonsRequestLoggingFilter.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/web/filter/RequestContextFilter.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/web/server/WebFilterChain.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/http/converter/HttpMessageConversionException.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/web/context/request/DestructionCallbackBindingListener.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/web/bind/support/SpringWebConstraintValidatorFactory.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/web/bind/annotation/SessionAttributes.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/http/converter/HttpMessageNotWritableException.java

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* limitations under the License.
*/
/**
  * Return the web session for the current request. Always guaranteed  to
  * return an instance either matching to the session id requested by the
  * client, or with a new session id either because the client did not
  * specify one or because the underlying session had expired. Use of this
  * method
 does not automatically create a session. See {@link WebSession}
  * for more details.
  */
```

Found in path(s):
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/web/server/ServerWebExchange.java
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```
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*/
```

Found in path(s):
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/web/filter/ServletRequestPathFilter.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/http/server/reactive/ReactorUriHelper.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/http/client/AbstractClientHttpResponse.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/web/context/request/async/CallableProcessingInterceptor.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/http/client/BufferingClientHttpRequestWrapper.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/http/server/DefaultPathContainer.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/http/server/reactive/ReactorNetty2ServerHttpRequest.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/http/client/reactive/ReactorNetty2ClientHttpRequest.java
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* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/http/client/reactive/ReactorNetty2ResourceFactory.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/web/util/UrlPathHelper.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/web/bind/support/WebExchangeDataBinder.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/web/util/ServletRequestPathUtils.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/http/converter/AbstractGenericHttpMessageConverter.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/web/service/invoker/HttpClientAdapter.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/web/bind/annotation/ControllerAdvice.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/web/util/BindErrorUtils.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/http/CacheControl.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/http/converter/AbstractKotlinSerializationHttpMessageConverter.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/http/server/reactive/ReactorServerHttpRequest.java

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* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/http/server/reactive/observation/DefaultServerRequestObservationConvention.java
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* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/web/bind/support/WebRequestDataBinder.java
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* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/web/util/WebUtils.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/http/server/observation/DefaultServerRequestObservationConvention.java
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* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/http/converter/json/ProblemDetailJacksonMixin.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/http/codec/xml/Jaxb2Helper.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/web/bind/MissingPathVariableException.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/web/service/invoker/AbstractReactorHttpExchangeAdapter.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/web/cors/reactive/CorsUtils.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/http/support/JettyHeadersAdapter.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/http/server/reactive/UndertowServerHttpRequest.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/http/client/reactive/JettyResourceFactory.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/web/client/RestClientUtils.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/http/MediaType.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/http/converter/json/ProblemDetailJacksonXmlMixin.java
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* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/web/context/support/ServletContextParameterFactoryBean.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/web/bind/annotation/RestControllerAdvice.java
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* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/web/client/HttpMessageConverterExtractor.java
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* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/http/server/reactive/TomcatHttpHandlerAdapter.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/web/bind/support/ConfigurableWebBindingInitializer.java
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* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/http/client/HttpComponentsClientHttpRequest.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/web/util/OpaqueUriComponents.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/http/client/reactive/ReactorClientHttpResponse.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/http/codec/json/Jackson2Tokenizer.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/http/codec/json/Jackson2JsonDecoder.java
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* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/web/bind/WebDataBinder.java
* /opt/cola/permits/2061045367_1718748652.3076158/0/spring-web-6-1-8-sources-jar/org/springframework/web/bind/ServletRequestDataBinder.java
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org.springframework.web.server.adapter.WebHttpHandlerBuilder$SpringWebBlockHoundIntegration

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1.4394 spring-beans 6.1.8

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* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/factory/SmartInitializingSingleton.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/factory/xml/AbstractSimpleBeanDefinitionParser.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/NotReadablePropertyException.java

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*/
/**
  * Process the given {@link RegisteredBean} instance ahead-of-time and
  * return a contribution or {@code null}.
  * <p>
  * Processors are free to use any techniques they like to analyze the given
  * instance. Most typically use reflection to find fields or methods to use
  * in the contribution. Contributions
 typically generate source code or
  * resource files that can be used when the AOT optimized application runs.
  * <p>
  * If the given instance isn't relevant to the processor, it should return a
  * {@code null} contribution.
  * @param registeredBean the registered bean to process
  * @return a {@link BeanRegistrationAotContribution} or {@code null}
  */
```

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jar/org/springframework/beans/BeanUtils.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/factory/xml/DefaultBeanDefinitionDocumentReader.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/factory/support/RootBeanDefinition.java
*
/opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/factory/support/DefaultSingletonBeanRegistry.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/factory/aot/BeanDefinitionPropertiesCodeGenerator.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/factory/annotation/QualifierAnnotationAutowireCandidateResolver.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/factory/support/GenericTypeAwareAutowireCandidateResolver.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/factory/annotation/AutowiredAnnotationBeanPostProcessor.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/factory/support/MethodDescriptor.java
*
/opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/MutablePropertyValues.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/GenericTypeAwarePropertyDescriptor.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/factory/support/ConstructorResolver.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/PropertyDescriptorUtils.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/factory/groovy/GroovyBeanDefinitionReader.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/AbstractNestablePropertyAccessor.java
*
/opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/factory/support/AbstractBeanFactory.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/factory/support/DisposableBeanAdapter.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/BeanWrapperImpl.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/factory/aot/InstanceSupplierCodeGenerator.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/factory/support/AbstractAutowireCapableBeanFactory.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/factory/support/RegisteredBean.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/factory/aot/DefaultBeanRegistrationCodeFragments.java
*

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* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/factory/parsing/ReaderContext.java
*
/opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/factory/config/BeanDefinition.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/factory/support/BeanDefinitionReaderUtils.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/factory/parsing/BeanEntry.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/propertyeditors/URIEditor.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/factory/parsing/PropertyEntry.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/factory/serviceloader/ServiceListFactoryBean.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/factory/parsing/QualifierEntry.java
*
/opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/factory/FactoryBean.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/factory/annotation/Lookup.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/factory/support/ScopeNotActiveException.java
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* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-

jar/org/springframework/beans/factory/support/AutowireCandidateQualifier.java
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/opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-
jar/org/springframework/beans/factory/support/SimpleBeanDefinitionRegistry.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-
jar/org/springframework/beans/NotWritablePropertyException.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-
jar/org/springframework/beans/factory/support/MergedBeanDefinitionPostProcessor.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-
jar/org/springframework/beans/propertyeditors/CustomDateEditor.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-
jar/org/springframework/beans/PropertyMatches.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-
jar/org/springframework/beans/factory/config/PropertyOverrideConfigurer.java
*
/opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-
jar/org/springframework/beans/factory/support/ManagedArray.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-
jar/org/springframework/beans/MethodInvocationException.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-
jar/org/springframework/beans/factory/xml/AbstractBeanDefinitionParser.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-
jar/org/springframework/beans/factory/BeanNotOfRequiredTypeException.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-
jar/org/springframework/beans/Mergeable.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-
jar/org/springframework/beans/factory/config/DestructionAwareBeanPostProcessor.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-
jar/org/springframework/beans/PropertyAccessException.java
*
/opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-
jar/org/springframework/beans/factory/config/CustomEditorConfigurer.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-
jar/org/springframework/beans/InvalidPropertyException.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-
jar/org/springframework/beans/factory/BeanDefinitionStoreException.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-
jar/org/springframework/beans/PropertyAccessorFactory.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-
jar/org/springframework/beans/PropertyValues.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-
jar/org/springframework/beans/factory/NoSuchBeanDefinitionException.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-
jar/org/springframework/beans/support/PagedListHolder.java
*
/opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-
jar/org/springframework/beans/factory/config/MethodInvokingFactoryBean.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-

jar/org/springframework/beans/factory/config/FieldRetrievingFactoryBean.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-
jar/org/springframework/beans/factory/parsing/CompositeComponentDefinition.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-
jar/org/springframework/beans/factory/annotation/AnnotationBeanWiringInfoResolver.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-
jar/org/springframework/beans/factory/parsing/FailFastProblemReporter.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-
jar/org/springframework/beans/propertyeditors/CustomBooleanEditor.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-
jar/org/springframework/beans/factory/DisposableBean.java
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 /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-
jar/org/springframework/beans/factory/config/NamedBeanHolder.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-
jar/org/springframework/beans/factory/xml/DefaultDocumentLoader.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-
jar/org/springframework/beans/factory/CannotLoadBeanClassException.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-
jar/org/springframework/beans/factory/ObjectFactory.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-
jar/org/springframework/beans/factory/ObjectProvider.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-
jar/org/springframework/beans/factory/SmartFactoryBean.java
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* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/factory/xml/ParserContext.java
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* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/factory/support/BeanDefinitionReader.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/propertyeditors/LocaleEditor.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/factory/config/InstantiationAwareBeanPostProcessor.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/factory/xml/SimplePropertyNamespaceHandler.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/factory/annotation/ParameterResolutionDelegate.java
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* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/factory/config/Scope.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/factory/BeanNameAware.java
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/opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/propertyeditors/FileEditor.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/factory/xml/UtilNamespaceHandler.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/factory/config/BeanDefinitionCustomizer.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/factory/BeanInitializationException.java

* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/factory/xml/NamespaceHandlerResolver.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/factory/support/ImplicitlyAppearedSingletonException.java
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 /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/propertyeditors/InputStreamEditor.java
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* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/factory/parsing/SourceExtractor.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/factory/NamedBean.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/propertyeditors/URLEditor.java
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* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/factory/parsing/ImportDefinition.java
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* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/factory/parsing/Location.java
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* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/factory/config/ProviderCreatingFactoryBean.java
* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/BeansException.java
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*/
/**
  * Process the given {@link ConfigurableListableBeanFactory} instance
  * ahead-of-time and return a contribution or {@code null}.
  * <p>Processors are free to use any techniques they like to analyze the given
  * bean factory. Most typically use reflection to find fields or methods to
  * use in the
 contribution. Contributions typically generate source code or
  * resource files that can be used when the AOT optimized application runs.
  * <p>If the given bean factory does not contain anything that is relevant to
  * the processor, this method should return a {@code null} contribution.
  * @param beanFactory the bean factory to process
  * @return a {@link BeanFactoryInitializationAotContribution} or {@code null}
  */
```

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* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/factory/aot/BeanFactoryInitializationAotProcessor.java
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* /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/factory/aot/BeanRegistrationsCode.java
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 /opt/cola/permits/2061045361_1718748598.0502644/0/spring-beans-6-1-8-sources-jar/org/springframework/beans/factory/support/ManagedSet.java
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* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/format/FormatterRegistry.java
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* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/jndi/JndiLocatorSupport.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/support/MessageSourceAccessor.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/annotation/AdviceMode.java
*
 /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/jndi/JndiTemplate.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/scheduling/config/TaskManagementConfigUtils.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/jmx/export/assembler/AbstractReflectiveMBeanInfoAssembler.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/cache/interceptor/CacheExpressionRootObject.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/jmx/export/assembler/SimpleReflectiveMBeanInfoAssembler.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/scheduling/concurrent/ForkJoinPoolFactoryBean.java
*
 /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/jmx/export/naming/IdentityNamingStrategy.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/instrument/classloading/WeavingTransformer.java
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* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/support/GenericApplicationContextExtensions.kt
*

/opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/instrument/classloading/jboss/JBossLoadTimeWeaver.java
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* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/support/StaticApplicationContext.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/support/StaticMessageSource.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/instrument/classloading/InstrumentationLoadTimeWeaver.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/cache/interceptor/CacheProxyFactoryBean.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/annotation/AnnotationConfigApplicationContextExtensions.kt
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/opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/jndi/JndiTemplateEditor.java
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* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/annotation/Import.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/MessageSource.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/annotation/ImportBeanDefinitionRegistrar.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/cache/annotation/CacheAnnotationParser.java
*
/opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/cache/CacheManager.java
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* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/annotation/ImportAware.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/jmx/export/notification/NotificationPublisherAware.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/ApplicationEventPublisherAware.java
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```

```
/**
* Indicates that a component is only eligible for registration when all
* {@linkplain #value specified conditions} match.
*
* <p>A <em>condition</em> is any state that can be determined programmatically
* before the bean definition is due to be registered (see {@link Condition} for details).
*
*
 <p>The {@code @Conditional} annotation may be used in any of the following ways:
* <ul>
* <li>as a type-level annotation on any class directly or indirectly annotated with
* {@code @Component}, including {@link Configuration @Configuration} classes</li>
* <li>as a meta-annotation, for the purpose of composing custom stereotype
* annotations</li>
* <li>as a method-level annotation on any {@link Bean @Bean} method</li>
* </ul>
*
* <p>If a {@code @Configuration} class is marked with {@code @Conditional},
* all of the {@code @Bean} methods, {@link Import @Import} annotations, and
* {@link ComponentScan @ComponentScan} annotations associated with that
* class will be subject to the conditions.
*
* <p><strong>NOTE</strong>: Inheritance of {@code @Conditional} annotations
* is not supported; any conditions from superclasses or from overridden
* methods will not be considered. In order to enforce these semantics,
* {@code @Conditional} itself is not declared as
* {@link java.lang.annotation.Inherited
 @Inherited}; furthermore, any
* custom <em>composed annotation</em> that is meta-annotated with
* {@code @Conditional} must not be declared as {@code @Inherited}.
*
* @author Phillip Webb
* @author Sam Brannen
* @since 4.0
* @see Condition
*/
```

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* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/annotation/ScopedProxyMode.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/cache/support/AbstractValueAdaptingCache.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/annotation/DeferredImportSelector.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/annotation/FullyQualifiedAnnotationBeanNameGenerator.java
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* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/jmx/support/RegistrationPolicy.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/jmx/export/annotation/ManagedAttribute.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/annotation/ImportSelector.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/scheduling/annotation/SchedulingConfiguration.java
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* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/ejb/config/AbstractJndiLocatingBeanDefinitionParser.java
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* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/validation/beanvalidation/OptionalValidatorFactoryBean.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/annotation/FilterType.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/i18n/LocaleContext.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/scheduling/concurrent/CustomizableThreadFactory.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/i18n/TimeZoneAwareLocaleContext.java

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* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/support/ResourceBundleMessageSource.java
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* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/annotation/AnnotationScopeMetadataResolver.java
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* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/scheduling/concurrent/DefaultManagedAwareThreadFactory.java
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* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/cache/interceptor/CacheOperation.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/ResourceLoaderAware.java
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* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/scheduling/config/TaskExecutorFactoryBean.java
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*/
/**
* Abstract the invocation of a cache operation.
*
* <p>Does not provide a way to transmit checked exceptions but
* provides a special exception that should be used to wrap any
* exception that was thrown by the underlying invocation.
* Callers are expected to handle this issue type specifically.
 *
* @author Stephane Nicoll
* @since 4.1
*/
```

Found in path(s):
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/cache/interceptor/CacheOperationInvoker.java
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* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/ejb/config/JndiLookupBeanDefinitionParser.java
*

/opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/scheduling/support/DelegatingErrorHandlingRunnable.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/jmx/export/MBeanExporterListener.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/validation/beanvalidation/LocaleContextMessageInterpolator.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/event/ContextClosedEvent.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/annotation/AnnotationConfigBeanDefinitionParser.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/jmx/export/notification/UnableToSendNotificationException.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/jmx/access/InvalidInvocationException.java
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/opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/event/ContextStartedEvent.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/ApplicationContextException.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/jmx/export/metadata/JmxAttributeSource.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/annotation/ScopeMetadata.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/validation/MessageCodesResolver.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/config/ContextNamespaceHandler.java
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/opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/instrument/classloading/LoadTimeWeaver.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/scheduling/config/SchedulerBeanDefinitionParser.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/scripting/ScriptSource.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/jmx/access/MBeanInfoRetrievalException.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/jmx/access/MBeanConnectFailureException.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/scheduling/SchedulingException.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/event/ContextRefreshedEvent.java
*
/opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/ejb/config/JeeNamespaceHandler.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/jmx/MBeanServerNotFoundException.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-

jar/org/springframework/validation/BindingErrorProcessor.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/NoSuchMessageException.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/HierarchicalMessageSource.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/jmx/export/MBeanExportException.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/annotation/EnableMBeanExport.java
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 /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/jmx/access/InvocationFailureException.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/ApplicationContextAware.java
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* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/event/ContextStoppedEvent.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/jmx/export/metadata/InvalidMetadataException.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/jndi/JndiLookupFailureException.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/Phased.java
*
 /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/format/number/AbstractNumberFormatter.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/jmx/export/naming/SelfNaming.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/jmx/JmxException.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/weaving/LoadTimeWeaverAware.java
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* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/scripting/support/RefreshableScriptTargetSource.java
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*
 /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/jmx/export/assembler/MBeanInfoAssembler.java
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* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/aot/ReflectiveProcessorBeanFactoryInitializationAotProcessor.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/support/DefaultLifecycleProcessor.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/support/GenericApplicationContext.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/support/AbstractRefreshableApplicationContext.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/cache/interceptor/CacheAspectSupport.java
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* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/validation/DataBinder.java
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/opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/cache/interceptor/CacheInterceptor.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/scheduling/concurrent/ConcurrentTaskExecutor.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/annotation/EnableLoadTimeWeaving.java
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* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/format/datetime/DateFormatter.java
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* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/cache/interceptor/CacheEvaluationContext.java
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* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/cache/interceptor/VariableNotAvailableException.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/event/ApplicationListenerMethodAdapter.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/event/SimpleApplicationEventMulticaster.java
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* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/scheduling/concurrent/SimpleAsyncTaskScheduler.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/scheduling/annotation/ScheduledAnnotationBeanPostProcessor.java
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* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/annotation/Primary.java
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/opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/validation/AbstractErrors.java
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* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/scheduling/support/DefaultScheduledTaskObservationConvention.java
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* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/scheduling/support/QuartzCronField.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/validation/beanvalidation/MethodValidationInterceptor.java
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* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/scheduling/annotation/Scheduled.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/cache/interceptor/CacheOperationSourcePointcut.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/scheduling/concurrent/ConcurrentTaskScheduler.java
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* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/SmartLifecycle.java
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/opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/validation/method/ParameterErrors.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/annotation/Condition.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/scheduling/support/CronExpression.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-

jar/org/springframework/jmx/access/MBeanProxyFactoryBean.java
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* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/annotation/ConfigurationClassEnhancer.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/scheduling/support/CronField.java
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/opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/annotation/ConfigurationClass.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/validation/beanvalidation/MethodValidationAdapter.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/format/datetime/standard/InstantFormatter.java
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* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/support/ReloadableResourceBundleMessageSource.java
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* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/validation/beanvalidation/MessageSourceResourceBundleLocator.java
*
/opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/annotation/PropertySources.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/ApplicationContext.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/cache/interceptor/BasicOperation.java

* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/scheduling/config/ContextLifecycleScheduledTaskRegistrar.java
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* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/support/ClassPathXmlApplicationContext.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/jmx/export/naming/ObjectNamingStrategy.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/support/EmbeddedValueResolutionSupport.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/jndi/JndiAccessor.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/jmx/export/metadata/ManagedResource.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/instrument/classloading/tomcat/TomcatLoadTimeWeaver.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/instrument/classloading/glassfish/GlassFishLoadTimeWeaver.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/scheduling/config/Task.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/expression/EnvironmentAccessor.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/cache/interceptor/SimpleCacheErrorHandler.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/instrument/classloading/SimpleThrowawayClassLoader.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-

jar/org/springframework/context/EnvironmentAware.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/format/number/NumberFormatAnnotationFormatterFactory.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/jmx/access/ConnectorDelegate.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/scheduling/concurrent/ScheduledExecutorTask.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/config/LoadTimeWeaverBeanDefinitionParser.java
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* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/scripting/ScriptFactory.java
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* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/scheduling/config/ScheduledTaskHolder.java
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* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/validation/beanvalidation/CustomValidatorBean.java
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* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-
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* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-
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jar/org/springframework/context/weaving/DefaultContextLoadTimeWeaver.java
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* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/validation/BindException.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/annotation/AnnotationConfigApplicationContext.java
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* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/ui/context/HierarchicalThemeSource.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/jmx/export/annotation/ManagedOperation.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/cache/interceptor/LoggingCacheErrorHandler.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/ui/Model.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/annotation/ParserStrategyUtils.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/format/datetime/standard/TemporalAccessorParser.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/expression/BeanExpressionContextAccessor.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/cache/annotation/CachingConfigurerSupport.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/aot/AotApplicationContextInitializer.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/jmx/export/annotation/ManagedNotification.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/support/GenericGroovyApplicationContext.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-

jar/org/springframework/jmx/export/assembler/MethodNameBasedMBeanInfoAssembler.java
*
 /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-
jar/org/springframework/scheduling/annotation/AsyncConfigurationSelector.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-
jar/org/springframework/context/aot/CglibClassHandler.java
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*/

Found in path(s):
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-
jar/org/springframework/jmx/export/metadata/ManagedOperationParameter.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-
jar/org/springframework/jmx/export/SpringModelMBean.java
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Found in path(s):

* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/jmx/export/metadata/ManagedOperation.java
No license file was found, but licenses were detected in source scan.

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*/
```

Found in path(s):
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/cache/interceptor/KeyGenerator.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/format/support/FormatterPropertyEditorAdapter.java
*
 /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/scheduling/annotation/Schedules.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/config/PropertyOverrideBeanDefinitionParser.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/jndi/JndiLocatorDelegate.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/support/GenericXmlApplicationContext.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/annotation/ScopeMetadataResolver.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/format/datetime/standard/PeriodFormatter.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/format/datetime/standard/YearMonthFormatter.java
*
 /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/format/Printer.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/context/config/AbstractPropertyLoadingBeanDefinitionParser.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/format/datetime/standard/TemporalAccessorPrinter.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-

jar/org/springframework/scheduling/config/ScheduledTasksBeanDefinitionParser.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/jndi/JndiPropertySource.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/scripting/groovy/GroovyObjectCustomizer.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/cache/support/CompositeCacheManager.java
*
/opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/format/datetime/standard/MonthDayFormatter.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/format/datetime/standard/DurationFormatter.java
* /opt/cola/permits/2061045392_1718748670.1892974/0/spring-context-6-1-8-sources-1-jar/org/springframework/format/Parser.java

1.4401 term 0.21.0

1.4401.1 Available under license :

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1.4402 consul-api 1.26.1

1.4402.1 Available under license :

```
---
layout: api
page_title: License - Operator - HTTP API
description: |-
 The /operator/license endpoint allows for retrieving the Consul
 Enterprise License.
---

# License - Operator HTTP API

<EnterpriseAlert />

The licensing functionality described here is available only in
[Consul Enterprise](https://www.hashicorp.com/products/consul/) version 1.1.0 and later.

## Getting the Consul License

This endpoint gets information about the current license.

| Method | Path                | Produces           |
| ------ | ------------------- | ------------------ |
| `GET`  | `/operator/license` | `application/json` |

The table below shows this endpoint's support for
[blocking queries](/consul/api-docs/features/blocking),
[consistency modes](/consul/api-docs/features/consistency),
[agent caching](/consul/api-docs/features/caching), and
[required ACLs](/consul/api-docs/api-structure#authentication).

| Blocking Queries | Consistency Modes | Agent Caching | ACL Required |
| ----------------
 | ----------------- | ------------- | ------------ |
| `NO`             | `all`             | `none`        | `none`       |

The corresponding CLI command is [`consul license get`](/consul/commands/license#get).

### Query Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be retrieved.
 This will default to the datacenter of the agent serving the HTTP request.

### Sample Request
```

```shell-session
$ curl \
  http://127.0.0.1:8500/v1/operator/license
```

Sample Response

```json
{
 "Valid": true,
 "License": {
   "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
   "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
   "installation_id": "*",
   "issue_time": "2018-05-21T20:03:35.911567355Z",
   "start_time": "2018-05-21T04:00:00Z",
   "expiration_time": "2019-05-22T03:59:59.999Z",
   "product": "consul",
   "flags": {
     "package": "premium"
   },
   "features": [
     "Automated Backups",
     "Automated Upgrades",

     "Enhanced Read Scalability",
     "Network Segments",
     "Redundancy Zone",
     "Advanced Network Federation"
   ],
   "temporary": false
 },
 "Warnings": []
}
```

Updating the Consul License

-> **Deprecated** This endpoint was removed in Consul v1.10.0 along with the ability to manage the cluster's license via the API.

This endpoint updates the Consul license and returns some of the license contents as well as any warning messages regarding its validity.

Method	Path	Produces
`PUT`	`/operator/license`	`application/json`

The table below shows this endpoint's support for
[blocking queries](/consul/api-docs/features/blocking),
[consistency modes](/consul/api-docs/features/consistency),
[agent caching](/consul/api-docs/features/caching), and
[required ACLs](/consul/api-docs/api-structure#authentication).

| Blocking Queries | Consistency Modes | Agent Caching | ACL Required
|
| ---------- | ---------- | ---------- | ---------- |
| `NO` | `none` | `none` | `operator:write` |

The corresponding CLI command is [`consul license put`](/consul/commands/license#put).

Query Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be updated.
 This will default to the datacenter of the agent serving the HTTP request.

Sample Payload

The payload is the raw license blob.

Sample Request

```shell-session
$ curl \
  --request PUT \
  --data @consul.license \
  http://127.0.0.1:8500/v1/operator/license
```

Sample Response

```json
{
 "Valid": true,
 "License": {
  "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
  "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
  "installation_id": "*",
  "issue_time": "2018-05-21T20:03:35.911567355Z",
  "start_time": "2018-05-21T04:00:00Z",
  "expiration_time": "2019-05-22T03:59:59.999Z",
  "product":
 "consul",
  "flags": {
   "package": "premium"
  },
```

```
  "features": [
    "Automated Backups",
    "Automated Upgrades",
    "Enhanced Read Scalability",
    "Network Segments",
    "Redundancy Zone",
    "Advanced Network Federation"
  ],
  "temporary": false
 },
 "Warnings": []
}
```

Resetting the Consul License

-> **Deprecated** This endpoint was removed in Consul v1.10.0 along with
the ability to manage the cluster's license via the API.

This endpoint resets the Consul license to the license included in the Enterprise binary. If the included license is not valid, the replace will fail.

Method	Path	Produces
`DELETE`	`/operator/license`	`application/json`

The table below shows this endpoint's support for
[blocking queries](/consul/api-docs/features/blocking),
[consistency modes](/consul/api-docs/features/consistency),
[agent caching](/consul/api-docs/features/caching),
 and
[required ACLs](/consul/api-docs/api-structure#authentication).

Blocking Queries	Consistency Modes	Agent Caching	ACL Required
`NO`	`none`	`none`	`operator:write`

The corresponding CLI command is [`consul license reset`](/consul/commands/license#reset).

Query Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be updated.
 This will default to the datacenter of the agent serving the HTTP request.

Sample Request

```shell-session
$ curl \
```

```
  --request DELETE \
  http://127.0.0.1:8500/v1/operator/license
```

Sample Response

```json
{
 "Valid": true,
 "License": {
   "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
   "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
   "installation_id": "*",
   "issue_time": "2018-05-21T20:03:35.911567355Z",
   "start_time": "2018-05-21T04:00:00Z",
    "expiration_time": "2019-05-22T03:59:59.999Z",
   "product": "consul",
   "flags": {
     "package": "premium"
   },
   "features": [
     "Automated Backups",
     "Automated Upgrades",
     "Enhanced Read Scalability",
     "Network Segments",
     "Redundancy Zone",
     "Advanced Network Federation"
   ],
   "temporary": false
 },
 "Warnings": []
}
```
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

@import './skin';
@import './layout';
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

.consul-intention-permission-form {
 h2 {
   padding-top: 1.4em;

```
  margin-top: 0.2em;
  margin-bottom: 0.6em;
 }
 .consul-intention-permission-header-form {
  margin-top: 10px;
 }
 fieldset:nth-child(2) > div,
 .consul-intention-permission-header-form fieldset > div {
  display: grid;
  grid-template-columns: repeat(auto-fit, minmax(160px, 1fr));
  grid-gap: 12px;
 }
 fieldset:nth-child(2) > div label:last-child {
  grid-column: span 2;
 }
 .ember-basic-dropdown-trigger {
  padding: 5px;
 }
 .checkbox-group {
  flex-direction: column;
 }
}
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

@import './skin';
@import './layout';
.consul-intention-permission-list > ul > li {
 @extend %list-row-200;
}
.consul-intention-permission-list:not(.readonly) > ul > li {
 @extend %with-composite-row-intent;
}
.consul-intention-permission-list strong {
 @extend %pill-500;
}
.consul-intention-permission-list .intent-allow {
 @extend %pill-allow;
}
.consul-intention-permission-list .intent-deny {
 @extend %pill-deny;
}
```

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---
layout: docs
page_title: Enterprise License FAQ
description: >-
Review frequently asked questions (FAQs) about Consul Enterprise licenses to learn more about how licenses work, what happens when they expire, and how to get a trial license.

Frequently Asked Questions (FAQ)

This FAQ is for the license changes introduced in Consul Enterprise version 1.10.0.
Consul Enterprise automatically loads Consul licenses when the server agent starts.

Q: Can I get a quick summary of the Consul changes?

Starting with Consul Enterprise 1.10.0, the license enablement process is different.

HashiCorp Enterprise servers will no longer start without a license. Servers require licenses to be provided from either an environment variable or file.
If the license is missing, invalid, or expired, the server will immediately exit.
This check is part of the server boot-up process.

In previous versions of HashiCorp enterprise products, one server could distribute a license to other servers via the Raft protocol.
This will no longer work since each server must be able to find a valid license during the startup process.

Q: What are the upgrade requirements?

All customers on Consul Enterprise 1.8/1.9 must first upgrade their client and server agents to the latest patch release.
During the upgrade the license file must also be configured on client agents in an environment variable or file path, otherwise the Consul agents will fail to retrieve the license with a valid agent token.
The upgrade process varies if ACLs are enabled or disabled in the cluster.
Refer to the instructions on [upgrading to 1.10.x](/consul/docs/upgrading/instructions/upgrade-to-1-10-x) for details.

Q: Is there a tutorial available for the license configuration steps?

Please visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs).

Q: What resources are available?

The list below is a great starting point for learning more about the license changes introduced in Consul Enterprise 1.10.0+ent.

- [Consul Enterprise Upgrade Documentation](/consul/docs/enterprise/upgrades)

- [Consul License Documentation](/consul/docs/enterprise/license/overview)

- [License configuration values documentation](/consul/docs/enterprise/license/overview#binaries-without-built-in-licenses)

- [Install a HashiCorp Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs)

Q: Do these changes impact all customers/licenses?

The license changes introduced in 1.10.0 only affect Consul Enterprise.
This impacts customers that have an enterprise binary (trial or non-trial licenses) downloaded from https://releases.hashicorp.com.
The license changes do not impact customers with the baked-in licensed binaries. In a later release of Consul Enterprise, baked-in binaries will be deprecated.

Q: What is the product behavior change introduced by the licensing changes?

Starting with Consul Enterprise 1.10.0,
 a valid license is required on-disk (auto-loading) or as an environment variable for Consul Enterprise to successfully boot-up.
The in-storage license feature will not be supported starting with Consul Enterprise 1.10.0+ent. All Consul Enterprise clusters using 1.10.0+ent must ensure that there is a valid license on-disk (auto-loaded) or as an environment variable.

Q: What is the impact on trial licenses due to this change? ((#q-what-is-the-impact-on-evaluation-licenses-due-to-this-change))

Consul Enterprise 1.10.0+ server agents require a valid license to start.
The license can be provided on disk (auto-loaded) or as an environment variable.
There is no longer a 6-hour trial period in which Consul Enterprise server agents
can operate without a license.

Q: Is there a grace period when licenses expire?

YesConsul will continue normal operation and can be restarted after license *expiration* as defined in [`expiration_time`](/consul/api-docs/operator/license#getting-the-consul-license).
As
 license expiration is approached or passed, Consul will issue warnings in the system logs.

Consul will only cease operation after license *termination*, which occurs 10 years
after license expiration and is defined in
[`termination_time`](/consul/api-docs/operator/license#getting-the-consul-license).

~> **Starting with Consul 1.14, and patch releases 1.13.3 and 1.12.6, Consul will support non-terminating licenses**:
  Please contact your support representative for more details on non-terminating licenses.
  An expired license will not allow Consul versions released after the expiration date to run.
  It will not be possible to upgrade to a new version of Consul released after license expiration.

Q: Does this affect client agents?

There are upgrade requirements that affect Consul Enterprise clients.
Please review the [upgrade requirements](#q-what-are-the-upgrade-requirements) documentation.

Q: Does this affect snapshot agents?

Same behavior as Consul clients.
See answer for [Does this affect client agents?](#q-does-this-affect-client-agents)

Q: What is the behavior if the license is missing?

Consul server agents will detect the absence of the license and immediately exit.

Consul client agents will attempt to retrieve the license from servers if certain conditions are met:

- ACLs are enabled.
- An ACL token is provided to the client agent.
- The client agents configuration contains `retry_join` addresses.
- The retry join addresses are addresses of the Consul servers.

Consul snapshot agents will attempt to retrieve the license from servers if certain conditions are met: ACLs are enabled, a ACL token is provided to the client agent, the client agents configuration contains `retry_join` addresses, the retry join addresses are addresses of the Consul servers.

Q: Where can users get a trial license for Consul Enterprise?

Contact your [HashiCorp Support contact](https://support.hashicorp.com/) for a development license.

~> **Trial
install will cease operation 24 hours after 30-day license expiration**:
Trial licenses are not meant to be used in production.
This is unlike non-trial licenses which provide a 10 year grace period as described in
the answer for [Q: Is there a grace period when licenses expire?](#q-is-there-a-grace-period-when-licenses-expire).

Q: How can I renew a license?

Contact your organization's [HashiCorp account team](https://support.hashicorp.com/hc/en-us) for information on how to renew your organization's enterprise license.

Q: I'm an existing enterprise customer but don't have my license, how can I get it?

Contact your organization's [HashiCorp account team](https://support.hashicorp.com/hc/en-us) for information on how to renew your organization's enterprise license.

Q: Are the license files locked to a specific cluster?

The license files are not locked to a specific cluster or cluster node. The above changes apply to all nodes in a cluster.

Q: Will this
impact HCP Consul Dedicated?

This will not impact HCP Consul Dedicated.

Q: Does this need to happen every time a node restarts, or is this a one-time check?

Consul Enterprise binaries starting with 1.10.0+ent, will be subject to EULA check. Release 1.10.0+ent introduces the EULA check for trial licenses (non-trial licenses already go through EULA check during contractual agreement).

The agreement to a EULA happens only once (when the user gets their license), Consul Enterprise **will check for the presence of a valid license every time a node restarts**.

When a customer upgrades existing clusters to a 1.10.0+ent release, they need to have a valid license to successfully upgrade. This valid license must be auto-loaded.

When a customer deploys new clusters to a 1.10.0+ent release, they need to have a valid license to successfully upgrade. This valid license must be on-disk (auto-loaded).

Q: What are the scenarios that a customer must plan for because of these changes?

New
 Consul cluster deployments using 1.10.0+ent will need to have a valid license on servers to successfully deploy. This valid license must be on-disk (auto-loaded) or as an environment variable.
Please see the [upgrade requirements](/consul/docs/enterprise/license/faq#q-what-are-the-upgrade-requirements).

Q: What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?

VM

1. Run [`consul license get -signed`](/consul/commands/license#get) to extract the license from their running cluster. Store the license in a secure location on disk.
1. Set up the necessary configuration so that when Consul Enterprise reboots it will have access to the required license. This could be via the client agent configuration file or an environment variable.
1. Visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs) for detailed steps on how to install the license
 key.
1. Follow the Consul upgrade [documentation](/consul/docs/upgrading).

Kubernetes

NOTE: If you are not upgrading Consul or your Helm chart version then no action is required.

1. In order to use Consul Enterprise 1.10.0 or greater on Kubernetes you must use version 0.32.0 or greater of the Helm chart.
1. You should already have a Consul Enterprise license set as a Kubernetes secret. If you do not, refer to [how to obtain a copy of your license](/consul/docs/enterprise/license/faq#q-i-m-an-existing-enterprise-customer-but-don-t-have-my-license-how-can-i-get-it).
Once you have the license then create a Kubernetes secret containing the license as described in [Kubernetes - Consul Enterprise](/consul/docs/k8s/deployment-configurations/consul-enterprise).
1. Follow the [Kubernetes Upgrade Docs](/consul/docs/k8s/upgrade) to upgrade. No changes to your `values.yaml` file are needed to enable enterprise autoloading since this support is built in to consul-helm 0.32.0 and greater.

!>
 Warning: If you are upgrading the Helm chart but **not** upgrading the Consul version, you must set `server.enterpriseLicense.enableLicenseAutoload: false`. See [Kubernetes - Consul Enterprise](/consul/docs/k8s/deployment-configurations/consul-enterprise) for more details.

Q: What is the migration path for customers who want to migrate from their existing perpetually-licensed binaries to the license on disk flow?

VM

1. Acquire a valid Consul Enterprise license. If you are an existing HashiCorp enterprise customer you may contact your organization's [customer success manager](https://support.hashicorp.com/hc/en-us) (CSM) for information on how to get your organization's enterprise license.
1. Store the license in a secure location on disk.
1. Set up the necessary configuration so that when Consul Enterprise reboots it will have the required license. This could be via the client agent configuration file or an environment variable.
  Visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs) for detailed steps on how to install the license key.
1. Follow the Consul upgrade [documentation](/consul/docs/upgrading).

Kubernetes

1. Acquire a valid Consul Enterprise license. If you are an existing HashiCorp enterprise customer you may contact your organization's [customer success manager](https://support.hashicorp.com/hc/en-us) (CSM) for information on how to get your organization's enterprise license.
1. Set up the necessary configuration so that when Consul Enterprise reboots it will have the required license. This could be via the client agent configuration file or an environment variable.
  Visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs) for detailed steps on how to install the license key.
1. Proceed with the `helm` [upgrade instructions](/consul/docs/k8s/upgrade)

Q: Will Consul downgrades/rollbacks work?

When downgrading
 to a version of Consul before 1.10.0+ent, customers will need to follow the previous process for applying an enterprise licenses to Consul Enterprise.

Q: Are there potential pitfalls when downgrading or upgrading Consul server instances?

~> Verify that you meet the [upgrade requirements](/consul/docs/enterprise/license/faq#q-what-are-the-upgrade-requirements).

Assume a scenario where there are three Consul server nodes:

- Node A: v1.9.5
- Node B: v1.10.0 [Leader]
- Node C: v1.9.5

The command `consul license put` is issued from Node A. This will result in an error due to how Consul routes calls to the server node, Node B in this example.
Because Node A is a follower when the call `consul license put` is issued, the call will be redirected to Node B (leader).
The `consul license put` operation will fail due to being removed from 1.10.0.
This is a scenario that could occur if a customer downgrades from 1.10.0+ and the Consul leadership has not transferred back over to a node
 not running 1.10.0+.
This also has the potential of occurring when upgrading if scheduled license updates or autoscaling groups recoveries are in place.

Q: Any impacts to Consul Kubernetes?

If you are using a Consul Enterprise version prior to 1.10.0 and decide to upgrade the Helm chart to version 0.32.0 or newer, but not the Consul version.
You will need to add the following configuration.

```
server:
 enterpriseLicense:
   enableLicenseAutoload: false
```

```
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

.consul-intention-permission-header-list {
 max-height: 200px;
 overflow: auto;
}
{{!
 Copyright (c) HashiCorp, Inc.
 SPDX-License-Identifier: BUSL-1.1
}}

{{#if (gt items.length 0)}}
<ListCollection
 class="consul-intention-permission-header-list"
 @items={{items}}
 @scroll="native"
 @cellHeight={{42}}
as |item|>
 <BlockSlot @name="details">
   <dl>
     <dt>
       <Tooltip>
```

```
        Header
      </Tooltip>
    </dt>
    <dd>
      {{item.Name}} {{route-match item}}
    </dd>
  </dl>
</BlockSlot>
<BlockSlot @name="actions" as |Actions|>
  <Actions as |Action|>
    <Action data-test-delete-action @onclick={{action ondelete item}} class="dangerous">
      <BlockSlot @name="label">
        Delete
      </BlockSlot>
      <BlockSlot @name="confirmation" as |Confirmation|>
        <Confirmation class="warning">
          <BlockSlot @name="header">
            Confirm delete
          </BlockSlot>
          <BlockSlot @name="body">
            <p>
              Are you sure you want to delete this header?

 </p>
          </BlockSlot>
          <BlockSlot @name="confirm" as |Confirm|>
            <Confirm>Delete</Confirm>
          </BlockSlot>
        </Confirmation>
      </BlockSlot>
    </Action>
  </Actions>
</BlockSlot>
</ListCollection>
{{/if}}
{
 "name": "envoy.filters.http.rbac",
 "typedConfig": {
   "@type": "type.googleapis.com/envoy.extensions.filters.http.rbac.v3.RBAC",
   "rules": {
     "policies": {
       "consul-intentions-layer7-0": {
         "permissions": [
           {
             "andRules": {
               "rules": [
                 {
                   "urlPath": {
```

```
        "path": {
          "exact": "/v1/secret"
        }
      }
    },
    {
      "andRules": {
        "rules": [
          {
            "metadata": {
              "filter": "envoy.filters.http.jwt_authn",
              "path": [
                {
                  "key": "jwt_payload_auth0"
                },
                {
                  "key": "iss"
                }
              ],
              "value": {
                "stringMatch": {
                  "exact": "mytest.auth0-issuer"
                }
              }
            }
          },
          {
            "metadata": {
              "filter": "envoy.filters.http.jwt_authn",
              "path": [
                {
                  "key": "jwt_payload_auth0"
                },
                {
                  "key": "perms"
                },
                {
                  "key": "role"
                }
              ],
              "value": {
                "stringMatch": {
                  "exact": "admin"

}
              }
            }
          }
```

```
          ]
        }
      }
    ]
  }
},
{
  "andRules": {
    "rules": [
      {
        "urlPath": {
          "path": {
            "exact": "/v1/admin"
          }
        }
      },
      {
        "notRule": {
          "urlPath": {
            "path": {
              "exact": "/v1/secret"
            }
          }
        }
      }
    ]
  }
}
],
"principals": [
  {
    "andIds": {
      "ids": [
        {
          "authenticated": {
            "principalName": {

          "safeRegex": {
              "regex": "^spiffe://test.consul/ns/default/dc/[^/]+/svc/web$"
            }
          }
        }
      },
      {
        "andIds": {
          "ids": [
            {
              "metadata": {
```

```
                "filter": "envoy.filters.http.jwt_authn",
                "path": [
                  {
                    "key": "jwt_payload_okta"
                  },
                  {
                    "key": "iss"
                  }
                ],
                "value": {
                  "stringMatch": {
                    "exact": "mytest.okta-issuer"
                  }
                }
              }
            },

            {
              "metadata": {
                "filter": "envoy.filters.http.jwt_authn",
                "path": [
                  {
                    "key": "jwt_payload_okta"
                  },
                  {
                    "key": "roles"
                  }
                ],
                "value": {
                  "stringMatch": {
                    "exact": "testing"
                  }
                }
              }
            }
          ]
        }
      }
    ]
  }
}
```

```
{{!
 Copyright (c) HashiCorp, Inc.
 SPDX-License-Identifier: BUSL-1.1
}}

<div
 ...attributes
 class="consul-intention-permission-header-form"
>
 <FormGroup
   @name={{name}}
 as |group|>

   {{yield (hash
     submit=(action 'submit' changeset)
     reset=(action 'reset' changeset)

     isDirty=(and changeset.isValid changeset.isDirty)
     changeset=changeset
   )}}

   <fieldset>
     <div>
       <group.Element
         @name="HeaderType"
         @type="select"
       as |el|>
         <el.Label>Header type</el.Label>
         <PowerSelect
           @options={{headerTypes}}
           @selected={{headerType}}
           @onChange={{action 'change' 'HeaderType' changeset}} as |Type|>
             {{get headerLabels Type}}
         </PowerSelect>
       </group.Element>


       <group.Element
         @name="Name"
         @error={{changeset-get changeset 'error.Name'}}
       as |el|>
         <el.Label>Header name</el.Label>
         <el.Text

          @value={{changeset-get changeset 'Name'}}
           oninput={{action 'change' 'Name' changeset}}
         />
         <State @state={{el.state}} @matches="error">
```

```
          <el.Error>
            {{changeset-get changeset 'error.Name.validation'}}
          </el.Error>
        </State>
      </group.Element>

 {{#if shouldShowValueField}}
      <group.Element
        @name="Value"
        @error={{changeset-get changeset 'error.Value'}}
      as |el|>
        <el.Label>Header {{lowercase (get headerLabels headerType)}}</el.Label>
        <el.Text
          @value={{changeset-get changeset 'Value'}}
          oninput={{action 'change' 'Value' changeset}}
        />
        <State @state={{el.state}} @matches="error">
          <el.Error>
            {{changeset-get changeset 'error.Value.validation'}}
          </el.Error>
        </State>
      </group.Element>
 {{/if}}

    </div>
  </fieldset>
 </FormGroup>
</div>
{
 "name": "envoy.filters.http.rbac",
 "typedConfig": {
   "@type": "type.googleapis.com/envoy.extensions.filters.http.rbac.v3.RBAC",
   "rules": {
     "policies": {
       "consul-intentions-layer7-0": {
         "permissions": [
           {
             "andRules": {
               "rules": [
                 {
                   "urlPath": {
                     "path": {
                       "prefix": "/v1"
                     }
                   }
                 },
                 {
                   "notRule": {
```

```
          "urlPath": {
            "path": {
              "exact": "/v1/secret"
            }
          }
        }
      }
    ]
  }
},
{
  "andRules": {
    "rules": [
      {
        "andRules": {
          "rules": [
            {

        "urlPath": {
              "path": {
                "safeRegex": {
                  "regex": "/v[123]"
                }
              }
            }
          },
          {
            "header": {
              "name": ":method",
              "stringMatch": {
                "safeRegex": {
                  "regex": "GET|HEAD|OPTIONS"
                }
              }
            }
          }
        ]
        }
      },
      {
        "notRule": {
          "urlPath": {
            "path": {
              "exact": "/v1/secret"
            }
          }
        }
      },
```

```
{
        "notRule": {
          "andRules": {
            "rules": [
              {
                "urlPath": {
                  "path": {
                    "exact": "/v1/admin"
                  }
                }
              },
              {
                "header": {
                  "name": ":method",
                  "stringMatch": {
                    "safeRegex": {
                      "regex": "GET"
                    }
                  }
                }
              }
            ]
          }
        }
      ]
    }
  },
  {
    "andRules": {
      "rules": [
        {

"andRules": {
          "rules": [
            {
              "header": {
                "name": "x-foo",
                "presentMatch": true
              }
            },
            {
              "header": {
                "name": "x-bar",
                "stringMatch": {
                  "exact": "xyz"
                }
```

```
          }
        },
        {
          "header": {
            "name": "x-dib",
            "stringMatch": {
              "prefix": "gaz"
            }
          }
        },
        {
          "header": {
            "name": "x-gir",
            "stringMatch": {

"suffix": "zim"
            }
          }
        },
        {
          "header": {
            "name": "x-zim",
            "stringMatch": {
              "safeRegex": {
                "regex": "gi[rR]"
              }
            }
          }
        },
        {
          "header": {
            "invertMatch": true,
            "name": "z-foo",
            "presentMatch": true
          }
        },
        {
          "header": {
            "invertMatch": true,
            "name": "z-bar",
            "stringMatch": {
              "exact": "xyz"

      }
          }
        },
        {
          "header": {
```

```
          "invertMatch": true,
          "name": "z-dib",
          "stringMatch": {
            "prefix": "gaz"
          }
        }
      },
      {
        "header": {
          "invertMatch": true,
          "name": "z-gir",
          "stringMatch": {
            "suffix": "zim"
          }
        }
      },
      {
        "header": {
          "invertMatch": true,
          "name": "z-zim",
          "stringMatch": {
            "safeRegex": {

       "regex": "gi[rR]"
            }
          }
        }
      }
    ]
  }
},
{
  "notRule": {
    "urlPath": {
      "path": {
        "exact": "/v1/secret"
      }
    }
  }
},
{
  "notRule": {
    "header": {
      "name": "x-baz",
      "presentMatch": true
    }
  }
}
```

```
            ]
          }
        }
      ],
      "principals": [
        {
          "authenticated": {
            "principalName": {
              "safeRegex": {
                "regex": "^spiffe://test.consul/ns/default/dc/[^/]+/svc/web$"
              }
            }
          }
        }
      ]
    }
  }
}
}
{
 "name": "envoy.filters.network.rbac",
 "typedConfig": {
   "@type": "type.googleapis.com/envoy.extensions.filters.network.rbac.v3.RBAC",
   "rules": {},
   "statPrefix": "connect_authz"
 }
}
{
 "Valid": true,
 "License": {
   "license_id": "${fake.random.uuid()}",
   "customer_id": "${fake.random.uuid()}",
   "installation_id": "*",
   "issue_time": "2021-01-13T15:25:19.052900132Z",
   "start_time": "2021-01-13T00:00:00Z",
   "expiration_time": "${env('CONSUL_LICENSE_EXPIRATION', '2022-05-02T23:59:59.999Z')}",
   "termination_time": "${env('CONSUL_LICENSE_TERMINATION', '2022-01-13T23:59:59.999Z')}",
   "product": "consul",
   "flags": {
     "modules": [
       "global-visibility-routing-scale",
       "governance-policy"
     ]
   },
   "modules": [
     "Global Visibility, Routing and Scale",
     "Governance and Policy"
```

```
  ],
  "features": [
    "Automated Backups",
    "Automated Upgrades",
    "Enhanced Read Scalability",
    "Network Segments",
    "Redundancy Zone",
    "Advanced Network Federation",
    "Namespaces",
    "SSO",
    "Audit Logging",
    "Admin Partitions"
  ]
 },
 "Warnings": [
 ]
}
{
 "name": "envoy.filters.http.jwt_authn",
 "typedConfig": {
  "@type": "type.googleapis.com/envoy.extensions.filters.http.jwt_authn.v3.JwtAuthentication",
  "providers": {
    "okta": {
      "issuer": "test-issuer",
      "payloadInMetadata": "jwt_payload_okta",
      "remoteJwks": {
        "asyncFetch": {
          "fastListener": true
        },
        "httpUri": {
          "cluster": "jwks_cluster_okta",
          "timeout": "1s",
          "uri": "https://example-okta.com/.well-known/jwks.json"
        }
      }
    }
  },
  "rules": [
    {
      "match": {
        "prefix": "/"
      },
      "requires": {
        "requiresAny": {
          "requirements": [
            {
              "providerName": "okta"
            },
```

```
            {
              "allowMissingOrFailed": {}
            }
          ]
        }
      }
    }
  ]
 }
}
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

@import './skin';
@import './layout';
.consul-intention-permission-header-list {
 > ul > li {
   @extend %list-row-200;
 }
}
# Proprietary License

This license is temporary while a more official one is drafted. However,
this should make it clear:

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The design contents of this website are proprietary and may not be reproduced
or reused in any way other than to run the website locally. The license for
the design is owned solely by HashiCorp, Inc.
{
 "name": "envoy.filters.http.rbac",
 "typedConfig": {
   "@type": "type.googleapis.com/envoy.extensions.filters.http.rbac.v3.RBAC",
   "rules": {
     "policies": {
       "consul-intentions-layer7-0": {
         "permissions": [
           {
             "andRules": {
               "rules": [
                 {
                   "andRules": {
                     "rules": [
                       {
                         "urlPath": {
```

```
          "path": {
            "prefix": "/v1"
          }
        }
      },
      {
        "header": {
          "name": "x-foo",
          "presentMatch": true
        }
      }
    ]
  }
},
{
  "notRule": {
    "andRules": {

    "rules": [
        {
          "urlPath": {
            "path": {
              "exact": "/v1/secret"
            }
          }
        },
        {
          "header": {
            "name": "x-baz",
            "presentMatch": true
          }
        },
        {
          "header": {
            "name": "x-bar",
            "presentMatch": true
          }
        }
      ]
    }
  }
},
{
  "notRule": {
    "andRules": {
      "rules": [
        {
```

```
        "urlPath": {
                    "path": {
                      "exact": "/v1/admin"
                    }
                  }
                },
                {
                  "header": {
                    "name": "x-baz",
                    "presentMatch": true
                  }
                },
                {
                  "header": {
                    "name": "x-bar",
                    "presentMatch": true
                  }
                }
              ]
            }
          }
        }
      }
    ]
  }
        ],
        "principals": [
          {
            "authenticated": {
              "principalName": {
                "safeRegex": {
                  "regex": "^spiffe://test.consul/ns/default/dc/[^/]+/svc/web$"
                }
              }
            }
          }
        ]
      }
    }
  }
}
# License

```hbs preview-template
<figure>
 <figcaption>URI: <code>/:partition/:nspace/:dc/license</code></figcaption>
 <DataSource
```
```

```
  @src={{
    uri '/${partition}/${nspace}/${dc}/license'
    (hash
      partition='partition'
      nspace='ns'
      dc='dc-1'
    )
  }}
  @onchange={{action (mut data) value="data"}}
 />
 <pre><code>{{json-stringify data null 4}}</code></pre>
</figure>
```
---
page_title: Automated license utilization reporting
description: >-
 Learn what data HashiCorp collects to meter Enterprise license utilization. Enable or disable reporting. Review sample payloads and logs.

Automated license utilization reporting

This topic describes how to enable automated license utilization reporting in Consul Enterprise. This feature automatically sends license utilization data to HashiCorp so that you do not have to manually collect and report it. It also enables you to review your license usage with the monitoring solution you already use, such as Splunk and Datadog, as you optimize and manage your deployments.

Introduction

You can use automated license utilization report to understand how much additional networking infrastructure you can deploy under your current contract. This feature helps you protect against overutilization and budget for predicted consumption.

Automated reporting shares the minimum data required to validate license utilization
 as defined in our contracts. This data mostly consists of computed metrics, and it will never contain Personal Identifiable Information (PII) or other sensitive information. Automated reporting shares the data with HashiCorp using a secure unidirectional HTTPS API and makes an auditable record in the product logs each time it submits a report. This process is GDPR-compliant.

Requirements

Automated license utilization reporting does not support _air-gapped installations_, which are systems with no network interfaces.

The following versions of Consul Enterprise support automated license utilization reporting:

- Consul Enterprise v1.16.0 and newer.
- Patch releases of Consul Enterprise v1.15.4 and newer.

- Patch releases of Consul Enterprise v1.14.8 and newer.
- Patch releases of Consul Enterprise v1.13.9 and newer.

Download a supported release from the [Consul Versions](https://releases.hashicorp.com/consul/) page.

Enable automated reporting

Before you enable automated reporting,
 make sure that outbound network traffic is configured correctly and upgrade your enterprise product to a version that supports it. If your installation is air-gapped or network settings are not in place, automated reporting will not work.

To enable automated reporting, complete the following steps:

1. [Allow outbound HTTPS traffic on port 443](#allow-outbound-https-traffic)
1. [Check product logs](#check-product-logs)

Allow outbound HTTPS traffic on port 443

Make sure that your network allows HTTPS egress on port 443 from `https://reporting.hashicorp.services` by adding the following IP addresses to your allow-list:

- `100.20.70.12`
- `35.166.5.222`
- `23.95.85.111`
- `44.215.244.1`

Check product logs

Automatic license utilization reporting starts sending data within roughly 24 hours. Check the product logs for records that the data sent successfully.

<CodeBlockConfig hideClipboard>

```
[DEBUG] beginning snapshot export
[DEBUG] creating payload
[DEBUG] marshalling
 payload to json
[DEBUG] generating authentication headers
[DEBUG] creating request
[DEBUG] sending request
[DEBUG] performing request: method=POST url=https://census.license.hashicorp.services
[DEBUG] recording audit record
[INFO]  reporting: Report sent: auditRecord={"payload":{"payload_version":"1","license_id":"d2cdd857-4202-5a45-70a6-e4b531050c34","product":"consul","product_version":"1.16.0-dev+ent","export_timestamp":"2023-05-26T20:09:13.753921087Z","snapshots":[{"snapshot_version":1,"snapshot_id":"0001J724F90F4XWQDSAA76ZQWA","process_id":"01H1CTJPC1S8H7Q45MKTJ689ZW","timestamp":"2023-05-
```

26T20:09:13.753513962Z","schema_version":"1.0.0","service":"consul","metrics":{"consul.billable.nodes":{"key":"consul.billable.nodes","kind":"counter","mode":"write","value":2},"consul.billable.service_instances":{"key":"consul.billable.service_instances","kind":"counter","mode":"write","value":2}}}],"metadata":{}}}
[DEBUG] completed recording audit record
[DEBUG] export finished successfully"
```

</CodeBlockConfig>

If
 your installation is air-gapped or your network does not allow the correct egress, the logs show an error.

<CodeBlockConfig hideClipboard>

```
[DEBUG] reporting: beginning snapshot export
[DEBUG] reporting: creating payload
[DEBUG] reporting: marshalling payload to json
[DEBUG] reporting: generating authentication headers
[DEBUG] reporting: creating request
[DEBUG] reporting: sending request
[DEBUG] reporting: performing request: method=POST url=https://census.license.hashicorp.services
[DEBUG] reporting: error status code received: statusCode=403
```

</CodeBlockConfig>

In this case, reconfigure your network to allow egress and check the logs again in roughly 24 hours to confirm that automated reporting works correctly.

Opt out

If your installation is air-gapped or you want to manually collect and report on the same license utilization metrics, you can opt out of automated reporting.

Manually reporting these metrics can be time consuming. Opting
 out of automated reporting does not mean that you also opt out from sending license utilization metrics. Customers who opt out of automated reporting are still required to manually collect and send license utilization metrics to HashiCorp.

If you are considering opting out because you are worried about the data, we strongly recommend that you review the [example payloads](#example-payloads) before opting out. If you have concerns with any of the automatically reported data, raise these concerns with your account manager.

There are two methods for opting out of automated reporting:

- HCL configuration (recommended)
- Environment variable (requires restart)
```

We recommend opting out in your product's configuration file because it does not require a system restart. Add the following block to your `configuration.hcl` or `configuration.json` file.

```hcl
reporting {
 license {
  enabled = false
 }
}
```

When opting out using an environment variable, the system provides a startup message
 confirming that you have disabled automated reporting. Set the following environment variable to disable automated reporting:

<CodeBlockConfig>

```shell-session
$ export OPTOUT_LICENSE_REPORTING=true
```

</CodeBlockConfig>

After you set the environment variable, restart your system to complete the process for opting out.

```shell-session
$ consul reload
```

Check your product logs roughly 24 hours after opting out to make sure that the system is not trying to send reports. Keep in mind that if your configuration file and environment variable differ, the environment variable setting takes precedence.

Example payloads

HashiCorp collects the following utilization data as JSON payloads:
`exporter_version` - The version of the licensing exporter

<CodeBlockConfig hideClipboard>

```json
{
 "payload": {
   "payload_version": "1",
   "license_id": "d2cdd857-4202-5a45-70a6-e4b531050c34",
   "product": "consul",
```

```
  "product_version": "1.16.0-dev+ent",
  "export_timestamp":
 "2023-05-26T20:09:13.753921087Z",
  "snapshots": [
    {
      "snapshot_version": 1,
      "snapshot_id": "0001J724F90F4XWQDSAA76ZQWA",
      "process_id": "01H1CTJPC1S8H7Q45MKTJ689ZW",
      "timestamp": "2023-05-26T20:09:13.753513962Z",
      "schema_version": "1.0.0",
      "service": "consul",
      "metrics": {
        "consul.billable.nodes": {
          "key": "consul.billable.nodes",
          "kind": "counter",
          "mode": "write",
          "value": 2
        },
        "consul.billable.service_instances": {
          "key": "consul.billable.service_instances",
          "kind": "counter",
          "mode": "write",
          "value": 2
        }
      }
    }
  ],
  "metadata": {}
 }
}
```


</CodeBlockConfig>
---
layout: docs
page_title: Storing the Enterprise License in Vault
description: >-
 Configuring the Consul Helm chart to use an enterprise license stored in Vault.

Storing the Enterprise License in Vault

This topic describes how to configure the Consul Helm chart to use an enterprise license stored in Vault.
Overview
Complete the steps outlined in the [Data Integration](/consul/docs/k8s/deployment-configurations/vault/data-integration) section to use an enterprise license stored in Vault.

Complete the following steps once:

1. Store the secret in Vault.
1. Create a Vault policy that authorizes the desired level of access to the secret.

Repeat the following steps for each datacenter in the cluster:
1. Create Vault Kubernetes auth roles that link the policy to each Consul on Kubernetes service account that requires access.
1. Update the Consul on Kubernetes helm chart.

Prerequisites
Prior to setting up the data integration between Vault and Consul on Kubernetes,
you will need to have:
1. Read and completed the steps in the [Systems Integration](/consul/docs/k8s/deployment-configurations/vault/systems-integration) section of [Vault as a Secrets Backend](/consul/docs/k8s/deployment-configurations/vault).
2. Read the [Data Integration Overview](/consul/docs/k8s/deployment-configurations/vault/data-integration) section of [Vault as a Secrets Backend](/consul/docs/k8s/deployment-configurations/vault).

Store the Secret in Vault

First, store the enterprise license in Vault:

```shell-session
$ vault kv put consul-kv/secret/enterpriselicense key="<enterprise license>"
```

Create Vault policy

Next, you will need to create a policy that allows read access to this secret.

The path to the secret referenced in the `path` resource is the same value that you will configure in the `global.enterpriseLicense.secretName` Helm configuration (refer to [Update Consul on Kubernetes Helm chart](#update-consul-on-kubernetes-helm-chart)).

<CodeBlockConfig
filename="license-policy.hcl">

```HCL
path "consul-kv/data/secret/enterpriselicense" {
 capabilities = ["read"]
}
```

</CodeBlockConfig>

Apply the Vault policy by issuing the `vault policy write` CLI command:

```shell-session
$ vault policy write license-policy license-policy.hcl
```

```

## Create Vault Authorization Roles for Consul

Next, you will create Kubernetes auth roles for the Consul server and client:

```shell-session
$ vault write auth/kubernetes/role/consul-server \
  bound_service_account_names=<Consul server service account> \
  bound_service_account_namespaces=<Consul installation namespace> \
  policies=license-policy \
  ttl=1h
```

```shell-session
$ vault write auth/kubernetes/role/consul-client \
  bound_service_account_names=<Consul client service account> \
  bound_service_account_namespaces=<Consul installation namespace> \
  policies=license-policy \
  ttl=1h
```

To find out the service account names of the Consul server and client,
you can
 run the following `helm template` commands with your Consul on Kubernetes values file:

- Generate Consul server service account name
 ```shell-session
 $ helm template --release-name ${RELEASE_NAME} -s templates/server-serviceaccount.yaml hashicorp/consul -f values.yaml
 ```

- Generate Consul client service account name
 ```shell-session
 $ helm template --release-name ${RELEASE_NAME} -s templates/client-serviceaccount.yaml hashicorp/consul -f values.yaml
 ```

Update Consul on Kubernetes Helm chart.

Now that you have configured Vault, you can configure the Consul Helm chart to
use the enterprise enterprise license in Vault:

<CodeBlockConfig filename="values.yaml">

```yaml
global:
 image: hashicorp/consul-enterprise:1.12.0-ent
```
```

```
 secretsBackend:
   vault:
     enabled: true
     consulServerRole: consul-server
     consulClientRole: consul-client
 enterpriseLicense:
   secretName: consul-kv/data/secret/enterpriselicense
   secretKey: key
```

</CodeBlockConfig>

Note
 that `global.enterpriseLicense.secretName` is the path of the secret in Vault.
This should be the same path as the one you included in your Vault policy.
`global.enterpriseLicense.secretKey` is the key inside the secret data. This should be the same
as the key you passed when creating the enterprise license secret in Vault.

```
{{!
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}}

<Hds::Alert @type='inline' @color={{or @type "neutral"}} class='mb-2 mt-2 consul-intention-notice-custom-
resource' as |A|>
 <A.Title>Intention Custom Resource</A.Title>
 <A.Description>Some of your intentions are being managed through an Intention Custom Resource in your
Kubernetes cluster. Those managed intentions will be view only in the UI. Any intentions created in the UI will
work but will not be synced to the Custom Resource Definition (CRD) datastore.</A.Description>
 <A.Link::Standalone @href="{{env 'CONSUL_DOCS_URL'}}/k8s/crds"
                 @text='Learn more about CRDs'
                 @icon="docs-link"
                 @iconPosition="trailing"
                 @size="small" />
</Hds::Alert>
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

.consul-intention-permission-form {
 h2 {
   border-top: 1px solid var(--token-color-foreground-action);
   @extend %display-400-semibold;
 }
 button.type-submit {
   @extend %frame-blue-300;
 }
 button.type-submit:hover:not(:disabled),
```

```
 button.type-submit:focus:not(:disabled) {
   @extend %frame-blue-500;
 }
 button.type-submit:disabled {
   @extend %frame-blue-200;
 }
}

.consul-intention-view {
 h2 {
   @extend %display-400-semibold;
 }
}
```

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---
layout: docs
page_title: Consul-Terraform-Sync Enterprise License
description: >-
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Consul-Terraform-Sync Enterprise License

<EnterpriseAlert>
 Licenses are only required for Consul-Terraform-Sync (CTS) Enterprise
</EnterpriseAlert>

CTS Enterprise binaries require a [Consul Enterprise license](/consul/docs/enterprise/license/overview) to run. There is no CTS Enterprise specific license. As a result, CTS Enterprise's licensing is very similar to Consul Enterprise.

All CTS Enterprise features are available with a valid Consul Enterprise license, regardless of your Consul Enterprise packaging or pricing model.

To get a trial license for CTS, you can sign-up for the [trial license for Consul Enterprise](/consul/docs/enterprise/license/faq#q-where-can-users-get-a-trial-license-for-consul-enterprise).

Automatic License Retrieval
CTS automatically retrieves a license from Consul on startup and then attempts to retrieve a new license once a day. If the current license is reaching its expiration date, CTS attempts to retrieve a license with increased frequency, as defined by the [License Expiration Date Handling](/consul/docs/nia/enterprise/license#license-expiration-handling).

~> Enabling automatic license retrieval is recommended when using HCP Consul Dedicated, as HCP Consul Dedicated licenses expire more frequently than Consul Enterprise licenses. Without auto-retrieval enabled, you have to restart CTS every time you load a new license.

Setting the License Manually

If a license needs to be manually set, choose one of the following methods (in order of precedence) to set the license:

1. Set the `CONSUL_LICENSE` environment variable to the license string.

  ```shell-session
  ```

```
export CONSUL_LICENSE=<LICENSE_VALUE>
```

1. Set the `CONSUL_LICENSE_PATH` environment variable to the path of the file containing the license.

```shell-session
export CONSUL_LICENSE_PATH=<PATH>/<TO>/<FILE>
```

1. To
 point to the file containing the license, in the configuration file, configure the
[`license`](/consul/docs/nia/configuration#license) path option.

```hcl
license {
  path = "<PATH>/<TO>/<FILE>"
}
```

1. To point to the file containing the license, in the configuration file, configure the
[`license_path`](/consul/docs/nia/configuration#license_path) option i. **Deprecated in CTS 0.6.0 and will be removed in a future release. Use [license block](/consul/docs/nia/configuration#license) instead.**

```hcl
license_path = "<PATH>/<TO>/<FILE>"
```

~> **Note**: the [options to set the license and the order of
precedence](/consul/docs/enterprise/license/overview#binaries-without-built-in-licenses) are the same as Consul Enterprise server agents.
Visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs) for detailed steps on how to install the license key.

Updating the License Manually
To update the license
 when it expires or is near the expiration date and automatic license retrieval is disabled:

1. Update the license environment variable or configuration with the new license value or path to the new license file
1. Stop and restart CTS Enterprise

Once CTS Enterprise starts again, it will pick up the new license and run the tasks with any changes that may have occurred between the stop and restart period.

License Expiration Handling

Licenses have an expiration date and a termination date. The termination date is a time at or after the license expires. CTS Enterprise will cease to function once the termination date has passed.

The time between the expiration and termination dates is a grace period. Grace periods are generally 24-hours, but you should refer to your license agreement for complete terms of your grace period.

When approaching expiration and termination, by default, CTS Enterprise will attempt to retrieve a new license. If auto-retrieval is disabled, CTS Enterprise will
provide notifications in the system logs:

Time period	Behavior - auto-retrieval enabled (default)	Behavior - auto-retrieval disabled
30 days before expiration	License retrieval attempt every 24-hours	Warning-level log every 24-hours
7 days before expiration	License retrieval attempt every 1 hour	Warning-level log every 1 hour
1 day before expiration	License retrieval attempt every 5 minutes	Warning-level log every 5 minutes
1 hour before expiration	License retrieval attempt every 1 minute	Warning-level log every 1 minute
At or after expiration (before termination)	License retrieval attempt every 1 minute	Error-level log every 1 minute
At or after termination	Error-level log and exit	Error-level log and exit

~> **Note**: Notification frequency and [grace period](/consul/docs/enterprise/license/faq#q-is-there-a-grace-period-when-licenses-expire) behavior is the same as Consul Enterprise.

```
/*!
* clipboard.js v2.0.11
* https://clipboardjs.com/
*
* Licensed MIT  Zeno Rocha
*/

/*!
* focus-trap 6.9.4
* @license MIT, https://github.com/focus-trap/focus-trap/blob/master/LICENSE
*/

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{{#if (gt items.length 0)}}
<ListCollection
 class="consul-intention-permission-list{{if (not onclick) ' readonly'}}"
 @scroll="native"
 @items={{items}}
 @partial={{5}}
as |item|>
 <BlockSlot @name="details">
   <div onclick={{action (optional onclick) item}}>
     <strong class={{concat 'intent-' item.Action}}>{{capitalize item.Action}}</strong>
{{#if (gt item.HTTP.Methods.length 0)}}
       <dl class="permission-methods">
         <dt>
           <Tooltip>
             Methods
           </Tooltip>
         </dt>
         <dd>
{{#each item.HTTP.Methods as |item|}}
           {{item}}
{{/each}}
         </dd>
       </dl>
{{/if}}
{{#if item.HTTP.Path}}
       <dl class="permission-path">
         <dt>
           <Tooltip>
```

```
          {{item.HTTP.PathType}}
        </Tooltip>
      </dt>
      <dd>
        {{item.HTTP.Path}}
      </dd>
    </dl>
{{/if}}
{{#each item.HTTP.Header
 as |item|}}
    <dl class="permission-header">
      <dt>
        <Tooltip>
          Header
        </Tooltip>
      </dt>
      <dd>
        {{item.Name}} {{route-match item}}
      </dd>
    </dl>
{{/each}}
  </div>
 </BlockSlot>
{{#if onclick}}
 <BlockSlot @name="actions" as |Actions|>
  <Actions as |Action|>
   <Action data-test-edit-action @onclick={{action (optional onclick) item}} @close={{true}}>
    <BlockSlot @name="label">
      Edit
    </BlockSlot>
   </Action>
   <Action data-test-delete-action @onclick={{action ondelete item}} class="dangerous">
    <BlockSlot @name="label">
      Delete
    </BlockSlot>
    <BlockSlot @name="confirmation" as |Confirmation|>
      <Confirmation class="warning">
        <BlockSlot @name="header">
          Confirm delete
        </BlockSlot>
        <BlockSlot @name="body">
          <p>
            Are you sure you
 want to delete this permission?
          </p>
        </BlockSlot>
        <BlockSlot @name="confirm" as |Confirm|>
          <Confirm>Delete</Confirm>
```

```
          </BlockSlot>
        </Confirmation>
      </BlockSlot>
    </Action>
  </Actions>
 </BlockSlot>
{{/if}}
</ListCollection>
{{/if}}
{
 "name": "envoy.filters.http.rbac",
 "typedConfig": {
   "@type": "type.googleapis.com/envoy.extensions.filters.http.rbac.v3.RBAC",
   "rules": {
     "policies": {
       "consul-intentions-layer7-0": {
         "permissions": [
           {
             "andRules": {
               "rules": [
                 {
                   "andRules": {
                     "rules": [
                       {
                         "urlPath": {
                           "path": {
                             "prefix": "/v1"
                           }
                         }
                       },
                       {
                         "header": {
                           "name": "x-foo",
                           "presentMatch": true
                         }
                       }
                     ]
                   }
                 },
                 {
                   "notRule": {
                     "andRules": {

                     "rules": [
                         {
                           "urlPath": {
                             "path": {
                               "exact": "/v1/secret"
```

```
                }
              }
            },
            {
              "header": {
                "name": "x-baz",
                "presentMatch": true
              }
            },
            {
              "header": {
                "name": "x-bar",
                "presentMatch": true
              }
            }
          ]
        }
      }
    },
    {
      "notRule": {
        "andRules": {
          "rules": [
            {

"urlPath": {
                "path": {
                  "exact": "/v1/admin"
                }
              }
            },
            {
              "header": {
                "name": "x-baz",
                "presentMatch": true
              }
            },
            {
              "header": {
                "name": "x-bar",
                "presentMatch": true
              }
            }
          ]
        }
      }
    }
  ]
```

```
          }
        },
        {
          "andRules": {
            "rules": [
              {
                "andRules": {
                  "rules": [
                    {

  "urlPath": {
                      "path": {
                        "prefix": "/v2"
                      }
                    }
                  },
                  {
                    "header": {
                      "name": "x-foo",
                      "presentMatch": true
                    }
                  }
                ]
              }
            },
            {
              "notRule": {
                "andRules": {
                  "rules": [
                    {
                      "urlPath": {
                        "path": {
                          "exact": "/v2/secret"
                        }
                      }
                    },
                    {
                      "header": {
                        "name": "x-baz",
                        "presentMatch":
true
                      }
                    },
                    {
                      "header": {
                        "name": "x-bar",
                        "presentMatch": true
                      }
```

```
            }
           ]
          }
         }
        },
        {
         "notRule": {
          "andRules": {
           "rules": [
            {
             "urlPath": {
              "path": {
               "exact": "/v2/admin"
              }
             }
            },
            {
             "header": {
              "name": "x-baz",
              "presentMatch": true
             }
            },

   {
             "header": {
              "name": "x-bar",
              "presentMatch": true
             }
            }
           ]
          }
         }
        }
       ]
      }
     }
    ],
    "principals": [
     {
      "authenticated": {
       "principalName": {
        "safeRegex": {
         "regex": "^spiffe://test.consul/ns/default/dc/[^/]+/svc/web$"
        }
       }
      }
     }
    ]
```

```
      }
    }
  }
 }
}
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

.agentless-node-notice .hds-alert__title {
 display: flex;
 justify-content: space-between;
}
```

Mozilla Public License 2.0 (MPLv2.0)

```
---
layout: commands
page_title: 'Commands: License'
description: >
 The license command provides a datacenter-level view of the Consul
 Enterprise license.
---

# Consul License

Command: `consul license`

<EnterpriseAlert />

The `license` command provides a list of all datacenters that use the Consul Enterprise license applied to the current datacenter.

~> **Warning**: Consul 1.10.0 removed the ability to set and reset the license using the CLI.
See the [licensing documentation](/consul/docs/enterprise/license/overview) for more information about
Consul Enterprise license management.

If ACLs are enabled then a token with operator privileges may be required in
order to use this command. Requests are forwarded internally to the leader
if required, so this can be run from any Consul node in a cluster. See the
[ACL Guide](/consul/tutorials/security/access-control-setup-production) for more information.

```text
Usage: consul license <subcommand> [options] [args]

 This command has subcommands
 for managing the Consul Enterprise license
 Here are some simple examples, and more detailed examples are
 available in the subcommands or the documentation.
```
```

Install a new license from a file:

$ consul license put @consul.license

Install a new license from stdin:

$ consul license put -

Install a new license from a string:

$ consul license put "<license blob>"

Retrieve the current license:

$ consul license get

Inspect a license:

$ consul license inspect "<path to license file>"

Reset the current license:

$ consul license reset

For more examples, ask for subcommand help or view the documentation.

Subcommands:
  get Get the active license
  inspect Inspect a signed license
  put Puts a new license in the datacenter
  reset Resets the license in the datacenter

```

## inspect

This command inspects and validates a license. Just like a Consul agent it
can load the license from a file
 on disk or from the `CONSUL_LICENSE` and
`CONSUL_LICENSE_PATH` environment variables.

Usage: `consul license inspect [<options>] [<license file>]`

Inspect a license contained in a file:

```
$ consul license inspect consul.hclic

```

Inspect a license loaded from the environment:

```
$ consul license inspect
```

This will look at the CONSUL_LICENSE environment variable first
and if not present then we will look for the file specified
by the CONSUL_LICENSE_PATH environment variable.

The output looks like this:

```
Source: /consul/config/consul.hclic (path from the CONSUL_LICENSE_PATH environment variable)
Product: consul
License ID: 6089174b-a713-74cf-4c8d-856b86f1ce50
Customer ID: 7c020610-60a2-7ccb-c210-20d899e5f3b4
Installation ID: *
Issue Time: 2020-09-14 19:45:56.212195875 +0000 UTC
Start Time: 2020-09-14 00:00:00 +0000 UTC
Expiration Time: 2021-09-14 23:59:59.999 +0000 UTC
Termination Time: 2021-09-14 23:59:59.999 +0000 UTC
Modules:
    Global Visibility, Routing and Scale
     Governance and Policy
Features:
    Automated Backups
    Automated Upgrades
    Enhanced Read Scalability
    Network Segments
    Redundancy Zone
    Advanced Network Federation
    Namespaces
    SSO
    Audit Logging
    Admin Partitions

License is valid

```

## put

-> **Deprecated** The ability to manage the cluster's license via the CLI
was removed in Consul 1.10. While the CLI command still exists it will
always return an error. This command will be fully removed in a future release.
```

Corresponding HTTP API Endpoint: [\[PUT\] /v1/operator/license](/consul/api-docs/operator/license#updating-the-consul-license)

This command sets the Consul Enterprise license.

The table below shows this command's [required ACLs](/consul/api-docs/api-structure#authentication). Configuration of
[blocking queries](/consul/api-docs/features/blocking) and [agent caching](/consul/api-docs/features/caching) are not supported from commands, but may be
 from the corresponding HTTP endpoint.

ACL Required
`operator:write`

Usage: `consul license put [options] LICENSE`

The output looks like this:

```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
	Automated Backups
	Automated Upgrades
	Enhanced Read Scalability
	Network Segments
	Redundancy Zone
	Advanced Network Federation
```

API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

get

Corresponding HTTP API Endpoint: [\[GET\] /v1/operator/license](/consul/api-docs/operator/license#getting-the-consul-license)

This command gets the Consul Enterprise license. If the leader hasn't been updated with the newer license, the

followers
will display the outdated license in their GET output.

The table below
 shows this command's [required ACLs](/consul/api-docs/api-structure#authentication). Configuration of [blocking queries](/consul/api-docs/features/blocking) and [agent caching](/consul/api-docs/features/caching) are not supported from commands, but may be from the corresponding HTTP endpoint.

ACL Required
`none`

Usage: `consul license get [options]`

The output looks like this:

```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
    Automated Backups
    Automated Upgrades
    Enhanced Read Scalability
    Network Segments
    Redundancy Zone
    Advanced Network Federation
```

API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

reset

-> **Deprecated** The ability to manage the cluster's license via the CLI
was
 removed in Consul 1.10. While the CLI command still exists it will
always return an error. This command will be fully removed in a future release.

Corresponding HTTP API Endpoint: [\[DELETE\] /v1/operator/license](/consul/api-docs/operator/license#resetting-the-consul-license)

Resets license for the datacenter to the one builtin in Consul binary, if it is still valid.
If the builtin license is invalid, the current one stays active.

The table below shows this command's [required ACLs](/consul/api-docs/api-structure#authentication). Configuration of
[blocking queries](/consul/api-docs/features/blocking) and [agent caching](/consul/api-docs/features/caching) are not supported from commands, but may be from the corresponding HTTP endpoint.

ACL Required
`operator:write`

Usage: `consul license reset [options]`

The output looks like this:

```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires
 At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
      Automated Backups
      Automated Upgrades
      Enhanced Read Scalability
      Network Segments
      Redundancy Zone
      Advanced Network Federation
```

API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'
{
 "name": "envoy.filters.http.rbac",
 "typedConfig": {
   "@type": "type.googleapis.com/envoy.extensions.filters.http.rbac.v3.RBAC",
   "rules": {
     "policies": {
       "consul-intentions-layer7-0": {
         "permissions": [
           {
             "andRules": {

```
"rules": [
  {
    "urlPath": {
      "path": {
        "prefix": "some-path"
      }
    }
  },
  {
    "andRules": {
      "rules": [
        {
          "metadata": {
            "filter": "envoy.filters.http.jwt_authn",
            "path": [
              {
                "key": "jwt_payload_okta"
              },
              {
                "key": "iss"
              }

            ],
            "value": {
              "stringMatch": {
                "exact": "mytest.okta-issuer"
              }
            }
          }
        },
        {
          "metadata": {
            "filter": "envoy.filters.http.jwt_authn",
            "path": [
              {
                "key": "jwt_payload_okta"
              },
              {
                "key": "roles"
              }
            ],
            "value": {
              "stringMatch": {
                "exact": "testing"
              }
            }
          }
        }
```

```
        ]
                }
              }
            ]
          }
        }
        ],
        "principals": [
          {
            "authenticated": {
              "principalName": {
                "safeRegex": {
                  "regex": "^spiffe://test.consul/ns/default/dc/[^/]+/svc/web$"
                }
              }
            }
          }
        ]
      }
    }
  }
 }
}
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

section[data-route='dc.show.license'] {
 @extend %license-route;
}
%license-route .validity {
 @extend %license-validity;
}
%license-route aside {
 @extend %license-route-learn-more;
}

%license-route h2 {
 @extend %display-400-semibold;
}

%license-validity p {
 color: var(--token-color-foreground-faint);
}
%license-validity dl {
 @extend %horizontal-kv-list;
```

```
 @extend %body-300-regular;
}
%license-validity dl .expired + dd {
 @extend %visually-hidden;
}
%license-validity dl dt::before {
 content: '';
 margin-right: 0.25rem; /* 4px */
}
%license-validity dl .expired::before {
 --icon-name: icon-x-circle;
 --icon-color: var(--token-color-foreground-critical);
}
%license-validity dl .warning::before {
 --icon-name: icon-alert-circle;
 --icon-color: var(--token-color-foreground-warning);
}
%license-validity dl .valid:not(.warning)::before {
 --icon-name: icon-check-circle;
 --icon-color: var(--token-color-foreground-success);
}

%license-route-learn-more
 {
 @extend %panel;
 box-shadow: none;
 padding: var(--padding-y) var(--padding-x);
 width: 40%;
 min-width: 413px;
 margin-top: 1rem; /* 16px */
}
%license-route-learn-more header > :first-child {
 @extend %display-300-semibold;
}
%license-route-learn-more header {
 margin-bottom: 1rem; /* 16px */
}
{{!
 Copyright (c) HashiCorp, Inc.
 SPDX-License-Identifier: BUSL-1.1
}}

<Route
 @name={{routeName}}
as |route|>
 <DataLoader
   @src={{
     uri '/${partition}/${nspace}/${dc}/license'
```

```
    (hash
      partition=route.params.partition
      nspace=route.params.nspace
      dc=route.params.dc
    )
  }}
 as |loader|>

{{#let
 loader.data
as |item|}}
  <BlockSlot @name="error">
    <ErrorState
      @error={{loader.error}}
      @login={{route.model.app.login.open}}
    />
  </BlockSlot>

  <BlockSlot @name="disconnected" as |after|>
    {{#if (eq loader.error.status "404")}}
      <Hds::Toast @color='warning'
        {{notification
          sticky=true
        }} as |T|>
        <T.Title>Warning!</T.Title>
        <T.Description>This service has been deregistered and no longer exists in the catalog.</T.Description>
      </Hds::Toast>
    {{else if (eq loader.error.status "403")}}
      <Hds::Toast @color='critical'
        {{notification
          sticky=true
        }} as |T|>
        <T.Title>Error!</T.Title>
        <T.Description>You no longer have access to this service.</T.Description>
      </Hds::Toast>
    {{else}}
      <Hds::Toast @color='warning'
        {{notification
          sticky=true
        }} as |T|>
        <T.Title>Warning!</T.Title>
        <T.Description>An error was returned whilst loading this data, refresh to try again.</T.Description>
      </Hds::Toast>
    {{/if}}
  </BlockSlot>

  <BlockSlot @name="loaded">
    <div class="tab-section">
```

```
<section
  class={{class-map
    'validity'
    (array 'valid' item.Valid)
  }}
>
  <header>
    <h2>
      {{compute (fn route.t 'expiry.header')}}
    </h2>
  </header>

  <p>
    {{compute (fn route.t 'expiry.${type}.body'
      (hash
        type=(if item.Valid 'valid' 'expired')

date=(format-time item.License.expiration_time
          year='numeric'
          month='long'
          day='numeric'
        )
        time=(format-time item.License.expiration_time
          hour12=true
          hour='numeric'
          hourCycle='h12'
          minute='numeric'
          second='numeric'
          timeZoneName='short'
        )
        htmlSafe=true
      )
    )}}
  </p>

  <dl>
    <dt class={{class-map
        (array 'valid' item.Valid)
        (array 'expired' (not item.Valid))
        (array 'warning' (temporal-within item.License.expiration_time 2629800000))
      }}
    >
      {{compute (fn route.t 'expiry.${type}.header'
        (hash
          type=(if item.Valid 'valid' 'expired')
        )
      )}}
    </dt>
```

```
  <dd>
          {{temporal-format item.License.expiration_time}}
        </dd>
      </dl>

      <aside>
        <header>
          <h3>
            {{compute (fn route.t 'documentation.title')}}
          </h3>
        </header>
        <div class="flex gap-1.5 flex-col">
          <Hds::Link::Standalone
            @text={{compute (fn route.t 'documentation.links.license-expiration.text')}}
            @href='{{concat (env 'CONSUL_DOCS_URL') (compute (fn route.t 'documentation.links.license-
expiration.link'))}}'
            @icon='docs-link'
            @iconPosition='trailing'
          />
          <Hds::Link::Standalone
            @text={{compute (fn route.t 'documentation.links.renewing-license.text')}}
            @href='{{concat (env 'CONSUL_DOCS_URL') (compute (fn route.t 'documentation.links.renewing-
license.link'))}}'
            @icon='docs-link'
            @iconPosition='trailing'

        />
          <Hds::Link::Standalone
            @text={{compute (fn route.t 'documentation.links.applying-new-license.text')}}
            @href='{{concat (env 'CONSUL_DOCS_URL') (compute (fn route.t 'documentation.links.applying-new-
license.link'))}}'
            @icon='docs-link'
            @iconPosition='trailing'
          />
        </div>
      </aside>

    </section>
  </div>
  </BlockSlot>
{{/let}}
 </DataLoader>
</Route>
// Copyright (c) HashiCorp, Inc.
// SPDX-License-Identifier: MPL-2.0

package api
```

```
import (
 "io"
 "strings"
 "time"
)

type License struct {
 // The unique identifier of the license
 LicenseID string `json:"license_id"`

 // The customer ID associated with the license
 CustomerID string `json:"customer_id"`

 // If set, an identifier that should be used to lock the license to a
 // particular site, cluster, etc.
 InstallationID string `json:"installation_id"`

 // The time at which the license was issued
 IssueTime time.Time `json:"issue_time"`

 // The time at which the license starts being valid
 StartTime time.Time `json:"start_time"`

 // The time after which the license expires
 ExpirationTime time.Time `json:"expiration_time"`

 // The time at which the license ceases to function and can
 // no longer be used in any capacity
 TerminationTime time.Time `json:"termination_time"`

 // Whether the license will ignore termination
 IgnoreTermination bool `json:"ignore_termination"`

 //
 The product the license is valid for
 Product string `json:"product"`

 // License Specific Flags
 Flags map[string]interface{} `json:"flags"`

 // Modules is a list of the licensed enterprise modules
 Modules []string `json:"modules"`

 // List of features enabled by the license
 Features []string `json:"features"`
}
```

```
type LicenseReply struct {
 Valid    bool
 License  *License
 Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
 var reply LicenseReply
 if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
  return nil, err
 } else {
  return &reply, nil
 }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
 r := op.c.newRequest("GET", "/v1/operator/license")
 r.params.Set("signed", "1")
 r.setQueryOptions(q)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return "", err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
  return "", err
 }

 data, err := io.ReadAll(resp.Body)
 if
 err != nil {
  return "", err
 }

 return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license stays active.
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
 var reply LicenseReply
 r := op.c.newRequest("DELETE", "/v1/operator/license")
 r.setWriteOptions(opts)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
```

```
 return nil, err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
  return nil, err
 }
 if err := decodeBody(resp, &reply); err != nil {
  return nil, err
 }
 return &reply, nil
}

// LicensePut will configure the Consul Enterprise license for the target datacenter
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set
 via agent configuration instead of through the API
func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
 var reply LicenseReply
 r := op.c.newRequest("PUT", "/v1/operator/license")
 r.setWriteOptions(opts)
 r.body = strings.NewReader(license)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return nil, err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
  return nil, err
 }

 if err := decodeBody(resp, &reply); err != nil {
  return nil, err
 }

 return &reply, nil
}
---
layout: docs
page_title: Enterprise Licenses
description: >-
 Consul Enterprise server, client, and snapshot agents require a license on startup in order to use Enterprise features.
Learn how to apply licenses using environment variables or configuration files.
---

# Consul Enterprise License

## Licensing Overview
```

All Consul Enterprise agents must be licensed when they are started. Where that license comes from will depend on which binary is in use, whether the agent is a server, client or snapshot agent, and whether ACLs have been enabled for the cluster.

-> ** Consul Enterprise 1.10.0 removed temporary licensing.** Prior to 1.10.0, Consul Enterprise agents could start without a license and then have a license applied to them later on via the CLI or API. That functionality has been removed and replaced with the ability to load licenses from the agent's configuration or environment. Also, prior to 1.10.0, server agents would automatically propagate the license between themselves.
This no longer occurs and the license must be present on each server agent when it is started.

Consul Enterprise 1.14.0, when running on Kubernetes, removed client agents and replaced these with virtual agents.
Virtual agents are nodes that Consul service mesh services run on. HashiCorp uses virtual agents to determine license entitlements for customers on per-node licensing and pricing agreements.

-> Visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs) for detailed steps on how to install the license key.

Applying a License

For Consul Enterprise 1.10.0 or greater, a license must be available at the time the agent starts.
For server agents this means that they must either have the [`license_path`](/consul/docs/agent/config/config-files#license_path)
configuration set or have a license configured in the servers environment with the `CONSUL_LICENSE` or `CONSUL_LICENSE_PATH` environment variables. Both the configuration
item and the `CONSUL_LICENSE_PATH`
environment variable point to a file containing the license whereas the `CONSUL_LICENSE` environment variable should contain the license as the value. If multiple variables are set,
the following order of precedence applies:

1. `CONSUL_LICENSE` environment variable
2. `CONSUL_LICENSE_PATH` environment variable
3. `license_path` configuration item.

Client agents and [snapshot agents](/consul/docs/enterprise/backups)
may also be licensed in the very same manner.
However, to avoid the need to configure the license on many client agents and snapshot agents,
those agents have the capability to retrieve the license automatically under the conditions described below.

Virtual agents do not need the license to run.

Updating the license for an agent depends on the method you used to apply the license.
- **If you used the `CONSUL_LICENSE`
environment variable**: After updating the environment variable, restart the affected agents.
- **If you used the

`CONSUL_LICENSE_PATH`
 environment variable**: Update the license file first. Then, restart the affected agents.
- **If you used the `license_path` configuration item**: Update the license file first. Then, run [`consul reload`](/consul/commands/reload) for the affected agents.

Client Agent License Retrieval

When a client agent starts without a license in its configuration or environment, it will try to retrieve the license from the servers via RPCs. That RPC always requires a valid non-anonymous ACL token to authorize the request but the token doesn't need any particular permissions. As the license is required before the client actually joins the cluster, where to make those RPC requests to is inferred from the [`retry_join`](/consul/docs/agent/config/config-files#retry_join) configuration. If `retry_join` is unset or no [`agent` token](/consul/docs/agent/config/config-files#acl_tokens_agent) is set then the client agent will immediately shut itself down.

If all preliminary checks
 pass the client agent will attempt to reach out to any server on its RPC port to
request the license. These requests will be retried for up to 5 minutes and if it is unable to retrieve a license within that time frame it will shut itself down.

If ACLs are disabled then the license must be provided to the client agent through one of the three methods listed below.
Failure in providing the client agent with a licence will prevent the client agent from joining the cluster.

1. `CONSUL_LICENSE` environment variable
2. `CONSUL_LICENSE_PATH` environment variable
3. `license_path` configuration item.

Snapshot Agent License Retrieval

The snapshot agent has similar functionality to the client agent for automatically retrieving the license. However, instead of requiring a server agent to talk to, the snapshot agent can request the license from the server or client agent it would use for all other operations. It still requires an ACL token to authorize the request. Also like client agents,
 the snapshot agent will shut itself down after being unable to retrieve the license for 5
minutes.
/**
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*/

```
.consul-intention-permission-header-list {
 dt::before {
   @extend %with-glyph-icon;
   content: 'H';
 }
}
```

```
/**
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*/

.consul-intention-permission-list {
 .detail > div {
   display: flex;
   width: 100%;
 }
 strong {
   margin-right: 8px;
 }
}
/**
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*/

.consul-intention-permission-list {
 dt::before {
   @extend %with-glyph-icon;
 }
 dl.permission-methods dt::before {
   content: 'M';
 }
 dl.permission-path dt::before {
   content: 'P';
 }
 dl.permission-header dt::before {
   content: 'H';
 }
}
{{!
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}}

{{#if isVisible}}
 <Hds::Alert @type="inline" class='mb-3 mt-2 agentless-node-notice' data-test-node-agentless-notice as |A|>
   <A.Title>
     <span>{{t 'routes.dc.nodes.index.agentless.notice.header'}}</span>
     <Hds::Button
       @color='secondary'
       @text='Dismiss notice'
       {{on 'click' this.dismissAgentlessNotice}}
       @icon='x'
       @size='small'
```

```
      @isIconOnly={{true}}
    />
  </A.Title>
  <A.Description>{{t 'routes.dc.nodes.index.agentless.notice.body'}}</A.Description>
  <A.Link::Standalone @href='{{env "CONSUL_DOCS_DEVELOPER_URL"}}/connect/dataplane'
                  @text={{t 'routes.dc.nodes.index.agentless.notice.footer'}}
                  @icon='docs-link'
                  @iconPosition='trailing' />
 </Hds::Alert>
{{/if}}
/*!
* QUnit 2.19.4
* https://qunitjs.com/
*
* Copyright OpenJS Foundation and other contributors
* Released under the MIT license
* https://jquery.org/license
*/
{{!
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}}

<Hds::Alert @type="inline" class="mb-3 mt-2" as |A|>
 <A.Description>{{t "components.consul.intention.notice.permissions.body"}}</A.Description>
 <A.Link::Standalone
   @text={{t "components.consul.intention.notice.permissions.footer"}}
   @href="{{env 'CONSUL_DOCS_URL'}}/connect/intentions"
   @icon="docs-link"
   @iconPosition="trailing"
   @size="small"
 />
</Hds::Alert>
```

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```
{
 "name": "envoy.filters.http.jwt_authn",
 "typedConfig": {
   "@type": "type.googleapis.com/envoy.extensions.filters.http.jwt_authn.v3.JwtAuthentication",
   "providers": {
     "auth0": {
       "issuer": "another-issuer",
       "payloadInMetadata": "jwt_payload_auth0",
       "remoteJwks": {
         "asyncFetch": {
           "fastListener": true
         },
         "httpUri": {
           "cluster": "jwks_cluster_auth0",
           "timeout": "1s",
```

```
          "uri": "https://example-auth0.com/.well-known/jwks.json"
        }
      }
    },
    "okta": {
      "issuer": "test-issuer",
      "payloadInMetadata": "jwt_payload_okta",
      "remoteJwks": {
        "asyncFetch": {
          "fastListener": true
        },
        "httpUri": {
          "cluster": "jwks_cluster_okta",
          "timeout": "1s",
          "uri": "https://example-okta.com/.well-known/jwks.json"
        }
      }
    }
  },
  "rules": [
    {

"match": {
        "prefix": "/"
      },
      "requires": {
        "requiresAll": {
          "requirements": [
            {
              "requiresAny": {
                "requirements": [
                  {
                    "providerName": "okta"
                  },
                  {
                    "allowMissingOrFailed": {}
                  }
                ]
              }
            },
            {
              "requiresAny": {
                "requirements": [
                  {
                    "providerName": "auth0"
                  },
                  {
                    "allowMissingOrFailed": {}
```

```
                }
              ]
            }
          }
        ]
      }
    }
  }
 ]
}
}
{{!
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}}

<div
 ...attributes
 class="consul-intention-permission-form"
>
<FormGroup
 @name={{name}}
as |group|>

 {{yield (hash
   submit=(action 'submit' changeset)
   reset=(action 'reset' changeset)

   isDirty=(and changeset.isValid)
   changeset=changeset
 )}}

 <fieldset>
   <div data-property="action">
     <span class="label">
       Should this permission allow the source connect to the destination?
     </span>
     <div role="radiogroup" class={{if changeset.error.Action ' has-error'}}>
       {{#each intents as |intent|}}
         <label>
           <span>{{capitalize intent}}</span>
           <input
             type="radio"
             name="Action"
             value={{intent}}
             checked={{if (eq changeset.Action intent) 'checked'}}
             onchange={{action (changeset-set changeset 'Action') value="target.value"}}
           />
```

```
        </label>
      {{/each}}
     </div>
   </div>
 </fieldset>

 <fieldset>
   <header>
     <h2>Path</h2>
   </header>
   <div>
      <group.Element
        @name="PathType"
        @type="select"
      as |el|>
        <el.Label>
          Path type
        </el.Label>
        <PowerSelect
          @options={{pathTypes}}
          @selected={{pathType}}
          @onChange={{action 'change' 'HTTP.PathType' changeset}} as |Type|>
            {{get pathLabels Type}}
        </PowerSelect>
      </group.Element>

{{#if shouldShowPathField}}
      <group.Element
        @name="Path"
        @error={{changeset-get changeset 'error.HTTP.Path'}}
      as |el|>
        <el.Label>
          {{get pathLabels pathType}}
        </el.Label>
        <el.Text
          @value={{changeset-get changeset 'HTTP.Path'}}
          oninput={{action 'change' 'HTTP.Path' changeset}}
        />
        <State @state={{el.state}} @matches="error">
          <el.Error>

            {{#if (eq (changeset-get changeset 'HTTP.Path') 'Regex')}}
              Path Regex should not be blank
            {{else}}
              Path should begin with a '/'
            {{/if}}
          </el.Error>
        </State>
```

```
      </group.Element>
{{/if}}

  </div>
 </fieldset>

 <fieldset>
  <h2>Methods</h2>
  <div class="type-toggle">
    <span>All methods are applied by default unless specified</span>
    <group.Element
      @name="allMethods"
    as |el|>
      <el.Checkbox
        checked={{if allMethods 'checked'}}
        onchange={{action 'change' 'allMethods' changeset}}
      />
      <el.Label>
        All Methods
      </el.Label>
    </group.Element>
  </div>

{{#if shouldShowMethods}}
  <div class="checkbox-group" role="group">
    {{#each methods as |method|}}
      <label class="type-checkbox">
        <input
          type="checkbox"
          name="method"
          value={{method}}

  checked={{if (includes method changeset.HTTP.Methods) 'checked'}}
          onchange={{action 'change' 'method' changeset}}
        />
        <span>{{method}}</span>
      </label>
    {{/each}}
  </div>
{{/if}}
 </fieldset>

 <fieldset>
  <h2>Headers</h2>

  <Consul::Intention::Permission::Header::List
    @items={{changeset-get changeset 'HTTP.Header'}}
    @ondelete={{action 'delete' 'HTTP.Header' changeset}}
```

```
  as |headerList|>

  </Consul::Intention::Permission::Header::List>

  <Consul::Intention::Permission::Header::Form
    @onsubmit={{action 'add' 'HTTP.Header' changeset}}
  as |headerForm|>
    <Ref @target={{this}} @name="headerForm" @value={{headerForm}} />
  </Consul::Intention::Permission::Header::Form>

  <Hds::ButtonSet>
    <Hds::Button
      data-test-add-header
      @text='Add{{if (gt (get (changeset-get changeset 'HTTP.Header') 'length') 0) ' another' ''}} header'
      @color='primary'
      disabled={{if (not this.headerForm.isDirty)
'disabled'}}
      onclick={{action this.headerForm.submit}}
    />
    <Hds::Button
      @text='Cancel'
      @color='secondary'
      onclick={{action this.headerForm.reset}}
    />
  </Hds::ButtonSet>
 </fieldset>
 </FormGroup>
</div>
```

1.4403 jetty 9.4.54.v20240208

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

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org.eclipse.jetty.toolchain:jetty-schemas

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1.4404 jaxb-runtime 4.0.5

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  https://github.com/apache/maven-plugin-tools/tree/master/maven-plugin-annotations

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maven-settings
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*
 Project: https://maven.apache.org/wagon/
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1.4409 protobuf-java-util 3.25.3

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Manifest-Version: 1.0
Bnd-LastModified: 1708024056239
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Bundle-ManifestVersion: 2
Bundle-Name: Protocol Buffers [Util]
Bundle-SymbolicName: com.google.protobuf.util
Bundle-Version: 3.25.3
Export-Package: com.google.protobuf.util;version="3.25.3";uses:="com.goo
gle.protobuf,javax.annotation"
Import-Package: com.google.common.base;version="[32.0,33)",com.google.co
mmon.io;version="[32.0,33)",com.google.common.math;version="[32.0,33)",
com.google.common.primitives;version="[32.0,33)",com.google.gson;versio
n="[2.8,3)",com.google.gson.stream;version="[2.8,3)",com.google.protobu
f,javax.annotation;version="[3.0,4)",sun.misc;resolution:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.4.0.202211291949
Created-By:
 mergejars
```

Found in path(s):
* /opt/cola/permits/2061357659_1718779967.8242521/0/protobuf-java-util-3-25-3-jar/META-INF/MANIFEST.MF

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```
    the Mozilla Public License, v. 2.0.
<div
 ...attributes
 class="consul-intention-permission-form"
>
<FormGroup
 @name={{name}}
as |group|>

 {{yield (hash
   submit=(action 'submit' changeset)
   reset=(action 'reset' changeset)

   isDirty=(and changeset.isValid)
   changeset=changeset
 )}}

 <fieldset>
   <div data-property="action">
     <span class="label">
       Should this permission allow the source connect to the destination?
     </span>
     <div role="radiogroup" class={{if changeset.error.Action ' has-error'}}>
       {{#each intents as |intent|}}
         <label>
           <span>{{capitalize intent}}</span>
           <input
             type="radio"
             name="Action"
             value={{intent}}
             checked={{if (eq changeset.Action intent) 'checked'}}
             onchange={{action (changeset-set changeset 'Action') value="target.value"}}
           />
         </label>
       {{/each}}
     </div>
   </div>
 </fieldset>

 <fieldset>
   <header>
     <h2>Path</h2>
    </header>
   <div>
       <group.Element
         @name="PathType"
         @type="select"
       as |el|>
```

```
        <el.Label>
          Path type
        </el.Label>
        <PowerSelect
          @options={{pathTypes}}
          @selected={{pathType}}
          @onChange={{action 'change' 'HTTP.PathType' changeset}} as |Type|>
            {{get pathLabels Type}}
        </PowerSelect>
      </group.Element>

{{#if shouldShowPathField}}
      <group.Element
        @name="Path"
        @error={{changeset-get changeset 'error.HTTP.Path'}}
      as |el|>
        <el.Label>
          {{get pathLabels pathType}}
        </el.Label>
        <el.Text
          @value={{changeset-get changeset 'HTTP.Path'}}
          oninput={{action 'change' 'HTTP.Path' changeset}}
        />
        <State @state={{el.state}} @matches="error">
          <el.Error>
            {{#if (eq (changeset-get changeset 'HTTP.Path') 'Regex')}}

          Path Regex should not be blank
            {{else}}
              Path should begin with a '/'
            {{/if}}
          </el.Error>
        </State>
      </group.Element>
{{/if}}

  </div>
 </fieldset>

 <fieldset>
  <h2>Methods</h2>
  <div class="type-toggle">
    <span>All methods are applied by default unless specified</span>
    <group.Element
      @name="allMethods"
    as |el|>
      <el.Checkbox
        checked={{if allMethods 'checked'}}
```

```
        onchange={{action 'change' 'allMethods' changeset}}
      />
      <el.Label>
        All Methods
      </el.Label>
    </group.Element>
  </div>

{{#if shouldShowMethods}}
  <div class="checkbox-group" role="group">
    {{#each methods as |method|}}
      <label class="type-checkbox">
        <input
          type="checkbox"
          name="method"
          value={{method}}
          checked={{if (includes method changeset.HTTP.Methods) 'checked'}}

    onchange={{action 'change' 'method' changeset}}
        />
        <span>{{method}}</span>
      </label>
    {{/each}}
  </div>
{{/if}}
 </fieldset>

 <fieldset>
  <h2>Headers</h2>

  <Consul::Intention::Permission::Header::List
    @items={{changeset-get changeset 'HTTP.Header'}}
    @ondelete={{action 'delete' 'HTTP.Header' changeset}}
  as |headerList|>

  </Consul::Intention::Permission::Header::List>

  <Consul::Intention::Permission::Header::Form
    @onsubmit={{action 'add' 'HTTP.Header' changeset}}
  as |headerForm|>
    <Ref @target={{this}} @name="headerForm" @value={{headerForm}} />
  </Consul::Intention::Permission::Header::Form>

  <button
    data-test-add-header
    type="button"
    class="type-submit"
    disabled={{if (not this.headerForm.isDirty) 'disabled'}}
```

```
    onclick={{action this.headerForm.submit}}
  >
    Add{{#if (gt (get (changeset-get changeset 'HTTP.Header') 'length') 0)}} another{{/if}} header
  </button>
   <button
    type="button"
    class="type-cancel"
    onclick={{action this.headerForm.reset}}
  >
    Cancel
  </button>

 </fieldset>
 </FormGroup>
</div>
<div
 ...attributes
 class="consul-intention-permission-header-form"
>
 <FormGroup
   @name={{name}}
 as |group|>

   {{yield (hash
    submit=(action 'submit' changeset)
    reset=(action 'reset' changeset)

    isDirty=(and changeset.isValid changeset.isDirty)
    changeset=changeset
   )}}

   <fieldset>
    <div>
      <group.Element
        @name="HeaderType"
        @type="select"
      as |el|>
        <el.Label>Header type</el.Label>
        <PowerSelect
          @options={{headerTypes}}
          @selected={{headerType}}
          @onChange={{action 'change' 'HeaderType' changeset}} as |Type|>
            {{get headerLabels Type}}
        </PowerSelect>
      </group.Element>


      <group.Element
```

```
        @name="Name"
        @error={{changeset-get changeset 'error.Name'}}
      as |el|>
        <el.Label>Header name</el.Label>
        <el.Text
          @value={{changeset-get changeset 'Name'}}
          oninput={{action
'change' 'Name' changeset}}
        />
        <State @state={{el.state}} @matches="error">
          <el.Error>
            {{changeset-get changeset 'error.Name.validation'}}
          </el.Error>
        </State>
      </group.Element>

{{#if shouldShowValueField}}
      <group.Element
        @name="Value"
        @error={{changeset-get changeset 'error.Value'}}
      as |el|>
        <el.Label>Header {{lowercase (get headerLabels headerType)}}</el.Label>
        <el.Text
          @value={{changeset-get changeset 'Value'}}
          oninput={{action 'change' 'Value' changeset}}
        />
        <State @state={{el.state}} @matches="error">
          <el.Error>
            {{changeset-get changeset 'error.Value.validation'}}
          </el.Error>
        </State>
      </group.Element>
{{/if}}

    </div>
  </fieldset>
</FormGroup>
</div>
.consul-intention-permission-form {
 h2 {
  padding-top: 1.4em;
  margin-top: 0.2em;
  margin-bottom: 0.6em;
 }
 .consul-intention-permission-header-form {
  margin-top: 10px;
 }
 fieldset:nth-child(2) > div,
```

```
 .consul-intention-permission-header-form fieldset > div {
   display: grid;
   grid-template-columns: repeat(auto-fit, minmax(160px, 1fr));
   grid-gap: 12px;
 }
 fieldset:nth-child(2) > div label:last-child {
   grid-column: span 2;
 }
 .ember-basic-dropdown-trigger {
   padding: 5px;
 }
 .checkbox-group {
   flex-direction: column;
 }
}
<Notice
 @type="info"
as |notice|>
 <notice.Body>
   <p>
     {{t "components.consul.intention.notice.permissions.body"}}
   </p>
 </notice.Body>
 <notice.Footer>
   <p>
     <a href="{{env 'CONSUL_DOCS_URL'}}/connect/intentions" target="_blank" rel="noopener noreferrer">
       {{t "components.consul.intention.notice.permissions.footer"}}
     </a>
   </p>
 </notice.Footer>
</Notice>
```

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```
.consul-intention-permission-header-list {
 max-height: 200px;
 overflow: auto;
}
@import './skin';
@import './layout';
.consul-intention-permission-header-list {
 > ul > li {
   @extend %list-row-200;
 }
}
@import './skin';
@import './layout';
.consul-intention-permission-list > ul > li {
 @extend %list-row-200;
}
.consul-intention-permission-list:not(.readonly) > ul > li {
 @extend %with-composite-row-intent;
}
.consul-intention-permission-list strong {
 @extend %pill-500;
```

```
}
.consul-intention-permission-list .intent-allow {
 @extend %pill-allow;
}
.consul-intention-permission-list .intent-deny {
 @extend %pill-deny;
}
<div
 class="notice {{or @type 'info'}}"
 ...attributes
>
{{yield (hash
 Header=(component 'anonymous' tagName="header")
 Body=(component 'anonymous')
 Footer=(component 'anonymous' tagName="footer")
)}}
</div>
<Route
 @name={{routeName}}
as |route|>
 <DataLoader
   @src={{
     uri '/${partition}/${nspace}/${dc}/license'
     (hash
       partition=route.params.partition
       nspace=route.params.nspace
       dc=route.params.dc
     )
   }}
 as |loader|>

{{#let
 loader.data
as |item|}}
   <BlockSlot @name="error">
     <ErrorState
       @error={{loader.error}}
       @login={{route.model.app.login.open}}
     />
   </BlockSlot>

   <BlockSlot @name="disconnected" as |after|>
     {{#if (eq loader.error.status "404")}}
       <Notice
         {{notification
           sticky=true
         }}
         class="notification-update"
```

```
      @type="warning"
    as |notice|>
      <notice.Header>
        <strong>Warning!</strong>
      </notice.Header>
      <notice.Body>
        <p>
          This service has been deregistered and no longer exists in the catalog.
        </p>
      </notice.Body>
    </Notice>
  {{else if (eq
loader.error.status "403")}}
    <Notice
      {{notification
        sticky=true
      }}
      class="notification-update"
      @type="error"
    as |notice|>
      <notice.Header>
        <strong>Error!</strong>
      </notice.Header>
      <notice.Body>
        <p>
          You no longer have access to this service
        </p>
      </notice.Body>
    </Notice>
  {{else}}
    <Notice
      {{notification
        sticky=true
      }}
      class="notification-update"
      @type="warning"
    as |notice|>
      <notice.Header>
        <strong>Warning!</strong>
      </notice.Header>
      <notice.Body>
        <p>
          An error was returned whilst loading this data, refresh to try again.
        </p>
      </notice.Body>
    </Notice>
  {{/if}}
</BlockSlot>
```

```
<BlockSlot @name="loaded">
  <div class="tab-section">
    <section
      class={{class-map
       'validity'
       (array 'valid' item.Valid)
      }}
    >
      <header>
        <h2>
          {{compute (fn route.t 'expiry.header')}}
        </h2>
      </header>

      <p>
        {{compute (fn route.t 'expiry.${type}.body'
          (hash
            type=(if item.Valid 'valid' 'expired')
            date=(format-time item.License.expiration_time
              year='numeric'
              month='long'
              day='numeric'
            )
            time=(format-time item.License.expiration_time
              hour12=true
              hour='numeric'
              hourCycle='h12'
              minute='numeric'
              second='numeric'
              timeZoneName='short'
            )
            htmlSafe=true
          )
        )}}
      </p>

      <dl>
        <dt class={{class-map
            (array
'valid' item.Valid)
            (array 'expired' (not item.Valid))
            (array 'warning' (temporal-within item.License.expiration_time 2629800000))
          }}
        >
          {{compute (fn route.t 'expiry.${type}.header'
            (hash
              type=(if item.Valid 'valid' 'expired')
```

```
            )
           )}}
          </dt>
          <dd>
           {{temporal-format item.License.expiration_time}}
          </dd>
         </dl>

         <aside>
          <header>
           <h3>
            {{compute (fn route.t 'documentation.title')}}
           </h3>
          </header>
          {{compute (fn route.t 'documentation.body'
           (hash
            htmlSafe=true
           )
          )}}
         </aside>

       </section>
     </div>
   </BlockSlot>
{{/let}}
 </DataLoader>
</Route>
---
layout: docs
page_title: Consul-Terraform-Sync Enterprise License
description: >-
 Consul-Terraform-Sync Enterprise License
---

# Consul-Terraform-Sync Enterprise License

<EnterpriseAlert>
 Licenses are only required for Consul-Terraform-Sync (CTS) Enterprise
</EnterpriseAlert>

CTS Enterprise binaries require a [Consul Enterprise license](/docs/enterprise/license/overview) to run. There is no CTS Enterprise specific license. As a result, CTS Enterprise's licensing is very similar to Consul Enterprise.

All CTS Enterprise features are available with a valid Consul Enterprise license, regardless of your Consul Enterprise packaging or pricing model.

To get a trial license for CTS, you can sign-up for the [trial license for Consul Enterprise](/docs/enterprise/license/faq#q-where-can-users-get-a-trial-license-for-consul-enterprise).
```

Automatic License Retrieval

CTS automatically retrieves a license from Consul on startup and then attempts to retrieve a new license once a day. If
 the current license is reaching its expiration date, CTS attempts to retrieve a license with increased frequency, as defined by the [License Expiration Date Handling](/docs/nia/enterprise/license#license-expiration-handling).

~> Enabling automatic license retrieval is recommended when using HCP Consul, as HCP Consul licenses expire more frequently than Consul Enterprise licenses. Without auto-retrieval enabled, you have to restart CTS every time you load a new license.

Setting the License Manually

If a license needs to be manually set, choose one of the following methods (in order of precedence) to set the license:

1. Set the `CONSUL_LICENSE` environment variable to the license string.

  ```shell-session
  export CONSUL_LICENSE=<LICENSE_VALUE>
  ```

1. Set the `CONSUL_LICENSE_PATH` environment variable to the path of the file containing the license.

  ```shell-session
  export CONSUL_LICENSE_PATH=<PATH>/<TO>/<FILE>
  ```

1. To point to the file containing the license,
 in the configuration file, configure the [`license`](/docs/nia/configuration#license) path option.

  ```hcl
  license {
    path = "<PATH>/<TO>/<FILE>"
  }
  ```

1. To point to the file containing the license, in the configuration file, configure the [`license_path`](/docs/nia/configuration#license_path) option i. **Deprecated in CTS 0.6.0 and will be removed in a future release. Use [license block](/docs/nia/configuration#license) instead.**

  ```hcl
  license_path = "<PATH>/<TO>/<FILE>"
  ```

~> **Note**: the [options to set the license and the order of precedence](/docs/enterprise/license/overview#binaries-without-built-in-licenses) are the same as Consul Enterprise server agents.

Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?utm_source=docs) for detailed steps on how to install the license key.

Updating the License Manually
To update the license when it expires or is near the expiration date and automatic
license retrieval is disabled:

1. Update the license environment variable or configuration with the new license value or path to the new license file
1. Stop and restart CTS Enterprise

Once CTS Enterprise starts again, it will pick up the new license and run the tasks with any changes that may have occurred between the stop and restart period.

License Expiration Handling

Licenses have an expiration date and a termination date. The termination date is a time at or after the license expires. CTS Enterprise will cease to function once the termination date has passed.

The time between the expiration and termination dates is a grace period. Grace periods are generally 24-hours, but you should refer to your license agreement for complete terms of your grace period.

When approaching expiration and termination, by default, CTS Enterprise will attempt to retrieve a new license. If auto-retrieval is disabled, CTS Enterprise will provide notifications in the system logs:

| Time
period	Behavior - auto-retrieval enabled (default)	Behavior - auto-retrieval disabled
30 days before expiration	License retrieval attempt every 24-hours	Warning-level log every 24-hours
7 days before expiration	License retrieval attempt every 1 hour	Warning-level log every 1 hour
1 day before expiration	License retrieval attempt every 5 minutes	Warning-level log every 5 minutes
1 hour before expiration	License retrieval attempt every 1 minute	Warning-level log every 1 minute
At or after expiration (before termination)	License retrieval attempt every 1 minute	Error-level log every 1 minute
At or after termination	Error-level log and exit	Error-level
log and exit

~> **Note**: Notification frequency and [grace period](/docs/enterprise/license/faq#q-is-there-a-grace-period-when-licenses-expire) behavior is the same as Consul Enterprise.
.consul-intention-permission-list {
 .detail > div {
  display: flex;
  width: 100%;
 }
 strong {

```
  margin-right: 8px;
 }
}
{
 "Valid": true,
 "License": {
  "license_id": "${fake.random.uuid()}",
  "customer_id": "${fake.random.uuid()}",
  "installation_id": "*",
  "issue_time": "2021-01-13T15:25:19.052900132Z",
  "start_time": "2021-01-13T00:00:00Z",
  "expiration_time": "${env('CONSUL_LICENSE_EXPIRATION', '2022-05-02T23:59:59.999Z')}",
  "termination_time": "${env('CONSUL_LICENSE_TERMINATION', '2022-01-13T23:59:59.999Z')}",
  "product": "consul",
  "flags": {
    "modules": [
      "global-visibility-routing-scale",
      "governance-policy"
    ]
  },
  "modules": [
    "Global Visibility, Routing and Scale",
    "Governance and Policy"
  ],
  "features": [
    "Automated Backups",
    "Automated Upgrades",
    "Enhanced Read Scalability",
    "Network Segments",
    "Redundancy Zone",
    "Advanced Network Federation",
    "Namespaces",
    "SSO",
    "Audit Logging",
    "Admin Partitions"
  ]
 },
 "Warnings": [
 ]
}
.consul-intention-permission-header-list {
 dt::before {
  @extend %with-glyph-icon;
  content: 'H';
 }
}
---
layout: docs
```

page_title: Storing the Enterprise License in Vault
description: >-
 Configuring the Consul Helm chart to use an enterprise license stored in Vault.

Storing the Enterprise License in Vault

This topic describes how to configure the Consul Helm chart to use an enterprise license stored in Vault.
Overview
Complete the steps outlined in the [Data Integration](/docs/k8s/deployment-configurations/vault/data-integration) section to use an enterprise license stored in Vault.

Complete the following steps once:
 1. Store the secret in Vault.
 1. Create a Vault policy that authorizes the desired level of access to the secret.

Repeat the following steps for each datacenter in the cluster:
 1. Create Vault Kubernetes auth roles that link the policy to each Consul on Kubernetes service account that requires access.
 1. Update the Consul on Kubernetes helm chart.

Prerequisites
Prior to setting up the data integration between Vault and Consul on Kubernetes, you will
 need to have:
1. Read and completed the steps in the [Systems Integration](/docs/k8s/deployment-configurations/vault/systems-integration) section of [Vault as a Secrets Backend](/docs/k8s/deployment-configurations/vault).
2. Read the [Data Integration Overview](/docs/k8s/deployment-configurations/vault/data-integration) section of [Vault as a Secrets Backend](/docs/k8s/deployment-configurations/vault).

Store the Secret in Vault

First, store the enterprise license in Vault:

```shell-session
$ vault kv put secret/consul/license key="<enterprise license>"
```

Create Vault policy

Next, you will need to create a policy that allows read access to this secret.

The path to the secret referenced in the `path` resource is the same value that you will configure in the `global.enterpriseLicense.secretName` Helm configuration (refer to [Update Consul on Kubernetes Helm chart](#update-consul-on-kubernetes-helm-chart)).

<CodeBlockConfig filename="license-policy.hcl">

```HCL
```

```
path "secret/data/consul/license"
 {
 capabilities = ["read"]
}
```

</CodeBlockConfig>

Apply the Vault policy by issuing the `vault policy write` CLI command:

```shell-session
$ vault policy write license-policy license-policy.hcl
```

Create Vault Authorization Roles for Consul

Next, you will create Kubernetes auth roles for the Consul server and client:

```shell-session
$ vault write auth/kubernetes/role/consul-server \
   bound_service_account_names=<Consul server service account> \
   bound_service_account_namespaces=<Consul installation namespace> \
   policies=license-policy \
   ttl=1h
```

```shell-session
$ vault write auth/kubernetes/role/consul-client \
   bound_service_account_names=<Consul client service account> \
   bound_service_account_namespaces=<Consul installation namespace> \
   policies=license-policy \
   ttl=1h
```

To find out the service account names of the Consul server and client,
you can run the following `helm template` commands with your Consul
 on Kubernetes values file:

- Generate Consul server service account name
 ```shell-session
 $ helm template --release-name ${RELEASE_NAME} -s templates/server-serviceaccount.yaml hashicorp/consul -f values.yaml
 ```

- Generate Consul client service account name
 ```shell-session
 $ helm template --release-name ${RELEASE_NAME} -s templates/client-serviceaccount.yaml hashicorp/consul -f values.yaml
 ```

```

## Update Consul on Kubernetes Helm chart.

Now that you have configured Vault, you can configure the Consul Helm chart to
use the enterprise enterprise license in Vault:

<CodeBlockConfig filename="values.yaml">

```yaml
global:
 image: hashicorp/consul-enterprise:1.12.0-ent
 secretsBackend:
   vault:
     enabled: true
     consulServerRole: consul-server
     consulClientRole: consul-client
 enterpriseLicense:
   secretName: secret/data/consul/enterpriselicense
   secretKey: key
```

</CodeBlockConfig>

Note that `global.enterpriseLicense.secretName` is the path of the
 secret in Vault.
This should be the same path as the one you included in your Vault policy.
`global.enterpriseLicense.secretKey` is the key inside the secret data. This should be the same
as the key you passed when creating the enterprise license secret in Vault.
Proprietary License

This license is temporary while a more official one is drafted. However,
this should make it clear:

The text contents of this website are MPL 2.0 licensed.

The design contents of this website are proprietary and may not be reproduced
or reused in any way other than to run the website locally. The license for
the design is owned solely by HashiCorp, Inc.
License

```hbs preview-template
<figure>
 <figcaption>URI: <code>/:partition/:nspace/:dc/license</code></figcaption>
 <DataSource
   @src={{
     uri '/${partition}/${nspace}/${dc}/license'
     (hash
```
```

```
      partition='partition'
      nspace='ns'
      dc='dc-1'
    )
  }}
  @onchange={{action (mut data) value="data"}}
 />
 <pre><code>{{json-stringify data null 4}}</code></pre>
</figure>
```
.agentless-node-notice header {
 display: flex;
 justify-content: space-between;
}
.consul-intention-permission-list {
 dt::before {
   @extend %with-glyph-icon;
 }
 dl.permission-methods dt::before {
   content: 'M';
 }
 dl.permission-path dt::before {
   content: 'P';
 }
 dl.permission-header dt::before {
   content: 'H';
 }
}
{{#if (gt items.length 0)}}
<ListCollection
 class="consul-intention-permission-header-list"
 @items={{items}}
 @scroll="native"
 @cellHeight={{42}}
as |item|>
 <BlockSlot @name="details">
   <dl>
     <dt>
       <Tooltip>
         Header
       </Tooltip>
     </dt>
     <dd>
       {{item.Name}} {{route-match item}}
     </dd>
   </dl>
 </BlockSlot>
 <BlockSlot @name="actions" as |Actions|>
```
```

```
  <Actions as |Action|>
    <Action data-test-delete-action @onclick={{action ondelete item}} class="dangerous">
      <BlockSlot @name="label">
        Delete
      </BlockSlot>
      <BlockSlot @name="confirmation" as |Confirmation|>
        <Confirmation class="warning">
          <BlockSlot @name="header">
            Confirm delete
          </BlockSlot>
          <BlockSlot @name="body">
            <p>
              Are you sure you want to delete this header?
            </p>
          </BlockSlot>
          <BlockSlot @name="confirm" as |Confirm|>
            <Confirm>Delete</Confirm>
          </BlockSlot>
        </Confirmation>
      </BlockSlot>
    </Action>
  </Actions>
 </BlockSlot>
</ListCollection>
{{/if}}
```

Mozilla Public License 2.0 (MPLv2.0)

```
package api

import (
 "io/ioutil"
 "strings"
 "time"
)

type License struct {
 // The unique identifier of the license
 LicenseID string `json:"license_id"`

 // The customer ID associated with the license
 CustomerID string `json:"customer_id"`

 // If set, an identifier that should be used to lock the license to a
 // particular site, cluster, etc.
 InstallationID string `json:"installation_id"`

 // The time at which the license was issued
 IssueTime time.Time `json:"issue_time"`
```

```
 // The time at which the license starts being valid
 StartTime time.Time `json:"start_time"`

 // The time after which the license expires
 ExpirationTime time.Time `json:"expiration_time"`

 // The time at which the license ceases to function and can
 // no longer be used in any capacity
 TerminationTime time.Time `json:"termination_time"`

 // The product the license is valid for
 Product string `json:"product"`

 // License Specific Flags
 Flags map[string]interface{} `json:"flags"`

 // Modules is a list
 of the licensed enterprise modules
 Modules []string `json:"modules"`

 // List of features enabled by the license
 Features []string `json:"features"`
}

type LicenseReply struct {
 Valid    bool
 License  *License
 Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
 var reply LicenseReply
 if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
  return nil, err
 } else {
  return &reply, nil
 }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
 r := op.c.newRequest("GET", "/v1/operator/license")
 r.params.Set("signed", "1")
 r.setQueryOptions(q)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return "", err
 }
 defer closeResponseBody(resp)
```

```
 if err := requireOK(resp); err != nil {
  return "", err
 }

 data, err := ioutil.ReadAll(resp.Body)
 if err != nil {
  return "", err
 }

 return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If
 the builtin license is invalid, the current license stays active.
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
 var reply LicenseReply
 r := op.c.newRequest("DELETE", "/v1/operator/license")
 r.setWriteOptions(opts)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return nil, err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
  return nil, err
 }
 if err := decodeBody(resp, &reply); err != nil {
  return nil, err
 }
 return &reply, nil
}

// LicensePut will configure the Consul Enterprise license for the target datacenter
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
 var reply LicenseReply
 r
 := op.c.newRequest("PUT", "/v1/operator/license")
 r.setWriteOptions(opts)
 r.body = strings.NewReader(license)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
```

```
 return nil, err
}
defer closeResponseBody(resp)
if err := requireOK(resp); err != nil {
 return nil, err
}

if err := decodeBody(resp, &reply); err != nil {
 return nil, err
}

return &reply, nil
}
{{#if (gt items.length 0)}}
<ListCollection
 class="consul-intention-permission-list{{if (not onclick) ' readonly'}}"
 @scroll="native"
 @items={{items}}
 @partial={{5}}
as |item|>
 <BlockSlot @name="details">
   <div onclick={{action (optional onclick) item}}>
     <strong class={{concat 'intent-' item.Action}}>{{capitalize item.Action}}</strong>
{{#if (gt item.HTTP.Methods.length 0)}}
       <dl class="permission-methods">
         <dt>
           <Tooltip>
             Methods
           </Tooltip>
         </dt>
         <dd>
{{#each item.HTTP.Methods as |item|}}
           {{item}}
{{/each}}
         </dd>
       </dl>
{{/if}}
{{#if item.HTTP.Path}}
       <dl class="permission-path">
         <dt>
           <Tooltip>
             {{item.HTTP.PathType}}
           </Tooltip>
         </dt>
         <dd>
           {{item.HTTP.Path}}
         </dd>
       </dl>
```

```
{{/if}}
{{#each item.HTTP.Header as |item|}}
      <dl class="permission-header">
        <dt>
          <Tooltip>
           Header
         </Tooltip>
        </dt>
        <dd>
          {{item.Name}} {{route-match item}}
        </dd>
      </dl>
{{/each}}
  </div>
 </BlockSlot>
{{#if onclick}}
 <BlockSlot @name="actions" as |Actions|>
  <Actions as |Action|>
    <Action data-test-edit-action @onclick={{action (optional onclick) item}} @close={{true}}>
      <BlockSlot @name="label">
        Edit
      </BlockSlot>
    </Action>
    <Action data-test-delete-action @onclick={{action ondelete item}} class="dangerous">
      <BlockSlot @name="label">
        Delete
      </BlockSlot>
      <BlockSlot @name="confirmation" as |Confirmation|>
        <Confirmation class="warning">
          <BlockSlot @name="header">
            Confirm delete
          </BlockSlot>
          <BlockSlot @name="body">
            <p>
              Are you sure you want to delete this permission?
            </p>
          </BlockSlot>
           <BlockSlot @name="confirm" as |Confirm|>
            <Confirm>Delete</Confirm>
          </BlockSlot>
        </Confirmation>
      </BlockSlot>
    </Action>
  </Actions>
 </BlockSlot>
{{/if}}
</ListCollection>
{{/if}}
```

```
%notice {
 position: relative;
 padding: 0.8rem;
}
%notice header {
 margin-bottom: 0.1rem;
}
%notice header > * {
 margin-bottom: 0;
}
%notice p {
 margin-bottom: 0.3rem;
 line-height: 1.4;
}
/* this is probably skin */
%notice {
 padding-left: calc(0.8rem + 1.4rem);
}
%notice::before {
 position: absolute;
 top: 0.8rem;
 left: 0.6rem;
 font-size: 1rem;
}
```

Notice

Presentational component for informational/warning/error banners/notices.

```hbs preview-template
<Notice
 @type={{this.type}}
as |notice|>
 <notice.Header>
   <h3>Header</h3>
 </notice.Header>
 <notice.Body>
   <p>
     Body
   </p>
 </notice.Body>
 <notice.Footer>
   <p>
     <a href="">Footer link</a>
   </p>
 </notice.Footer>
</Notice>
```

```
<figure>
 <figcaption>Provide a widget to change the <code>@type</code></figcaption>

 <select
   onchange={{action (mut this.type) value="target.value"}}
 >
   <option>info</option>
   <option>success</option>
   <option>warning</option>
   <option>error</option>
 </select>

</figure>
```

Arguments

Argument/Attribute	Type	Default	Description
`type`	`String`	`info`	Type of notice [info|warning|error]

See

- [Template Source Code](./index.hbs)

---
layout: commands
page_title: 'Commands: License'
description: >
 The license command provides a datacenter-level view of the Consul
 Enterprise license.

Consul License

Command: `consul license`

<EnterpriseAlert />

The `license` command provides a list of all datacenters that use the Consul Enterprise license applied to the current datacenter.

~> **Warning**: Consul 1.10.0 removed the ability to set and reset the license using the CLI.
See the [licensing documentation](/docs/enterprise/license/overview) for more information about
Consul Enterprise license management.

If ACLs are enabled then a token with operator privileges may be required in

order to use this command. Requests are forwarded internally to the leader
if required, so this can be run from any Consul node in a cluster. See the
[ACL Guide](https://learn.hashicorp.com/tutorials/consul/access-control-setup-production) for more information.

```text
Usage: consul license <subcommand> [options] [args]

 This command
 has subcommands for managing the Consul Enterprise license
 Here are some simple examples, and more detailed examples are
 available in the subcommands or the documentation.

 Install a new license from a file:

    $ consul license put @consul.license

 Install a new license from stdin:

    $ consul license put -

 Install a new license from a string:

    $ consul license put "<license blob>"

 Retrieve the current license:

    $ consul license get

 Inspect a license:

    $ consul license inspect "<path to license file>"

 Reset the current license:

    $ consul license reset

 For more examples, ask for subcommand help or view the documentation.

Subcommands:
   get       Get the active license
   inspect   Inspect a signed license
   put       Puts a new license in the datacenter
   reset     Resets the license in the datacenter

```

inspect

This command inspects and validates a license. Just like a Consul agent it
can load the license from
 a file on disk or from the `CONSUL_LICENSE` and
`CONSUL_LICENSE_PATH` environment variables.

Usage: `consul license inspect [<options>] [<license file>]`

Inspect a license contained in a file:

```
$ consul license inspect consul.hclic
```

Inspect a license loaded from the environment:

```
$ consul license inspect
```

This will look at the CONSUL_LICENSE environment variable first
and if not present then we will look for the file specified
by the CONSUL_LICENSE_PATH environment variable.

The output looks like this:

```
Source: /consul/config/consul.hclic (path from the CONSUL_LICENSE_PATH environment variable)
Product: consul
License ID: 6089174b-a713-74cf-4c8d-856b86f1ce50
Customer ID: 7c020610-60a2-7ccb-c210-20d899e5f3b4
Installation ID: *
Issue Time: 2020-09-14 19:45:56.212195875 +0000 UTC
Start Time: 2020-09-14 00:00:00 +0000 UTC
Expiration Time: 2021-09-14 23:59:59.999 +0000 UTC
Termination Time: 2021-09-14 23:59:59.999 +0000 UTC
Modules:
      Global Visibility, Routing
 and Scale
      Governance and Policy
Features:
      Automated Backups
      Automated Upgrades
      Enhanced Read Scalability
      Network Segments
      Redundancy Zone
      Advanced Network Federation
      Namespaces
      SSO
```

Audit Logging
Admin Partitions

License is valid

```

## put

-> **Deprecated** The ability to manage the cluster's license via the CLI
was removed in Consul 1.10. While the CLI command still exists it will
always return an error. This command will be fully removed in a future release.

Corresponding HTTP API Endpoint: [\[PUT\] /v1/operator/license](/api-docs/operator/license#updating-the-consul-license)

This command sets the Consul Enterprise license.

The table below shows this command's [required ACLs](/api-docs/api-structure#authentication). Configuration of [blocking queries](/api-docs/features/blocking) and [agent caching](/api-docs/features/caching)
are not supported from commands, but may be from the corresponding
 HTTP endpoint.

| ACL Required |
| --- |
| `operator:write` |

Usage: `consul license put [options] LICENSE`

The output looks like this:

```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
    Automated Backups
    Automated Upgrades
    Enhanced Read Scalability
    Network Segments
    Redundancy Zone
    Advanced Network Federation
```

API Options
```

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

get

Corresponding HTTP API Endpoint: [\[GET\] /v1/operator/license](/api-docs/operator/license#getting-the-consul-license)

This command gets the Consul Enterprise license. If the leader hasn't been updated with the newer license, the followers
will display the outdated license in their GET output.

The table below shows this command's
 [required ACLs](/api-docs/api-structure#authentication). Configuration of
[blocking queries](/api-docs/features/blocking) and [agent caching](/api-docs/features/caching)
are not supported from commands, but may be from the corresponding HTTP endpoint.

ACL Required
`none`

Usage: `consul license get [options]`

The output looks like this:

```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
    Automated Backups
    Automated Upgrades
    Enhanced Read Scalability
    Network Segments
    Redundancy Zone
    Advanced Network Federation
```

API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

reset

-> **Deprecated** The ability to manage the cluster's license via the CLI
was removed in Consul 1.10. While the CLI command
 still exists it will
always return an error. This command will be fully removed in a future release.

Corresponding HTTP API Endpoint: [\[DELETE\] /v1/operator/license](/api-docs/operator/license#resetting-the-consul-license)

Resets license for the datacenter to the one builtin in Consul binary, if it is still valid.
If the builtin license is invalid, the current one stays active.

The table below shows this command's [required ACLs](/api-docs/api-structure#authentication). Configuration of [blocking queries](/api-docs/features/blocking) and [agent caching](/api-docs/features/caching)
are not supported from commands, but may be from the corresponding HTTP endpoint.

ACL Required
`operator:write`

Usage: `consul license reset [options]`

The output looks like this:

```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package:
 premium
Licensed Features:
	Automated Backups
	Automated Upgrades
	Enhanced Read Scalability
	Network Segments
	Redundancy Zone
	Advanced Network Federation
```

API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

---
page_title: Automated license utilization reporting
description: >-
 Learn what data HashiCorp collects to meter Enterprise license utilization. Enable or disable reporting. Review sample payloads and logs.

Automated license utilization reporting

This topic describes how to enable automated license utilization reporting in Consul Enterprise. This feature automatically sends license utilization data to HashiCorp so that you do not have to manually collect and report it. It also enables you to review your license usage with the monitoring solution you already use, such as Splunk and Datadog, as you optimize and manage your deployments.

Introduction

You can use automated license utilization report to understand how much additional networking infrastructure you can deploy under your current contract. This feature helps you protect against overutilization and budget for predicted consumption.

Automated reporting shares the minimum data required to validate license utilization
 as defined in our contracts. This data mostly consists of computed metrics, and it will never contain Personal Identifiable Information (PII) or other sensitive information. Automated reporting shares the data with HashiCorp using a secure unidirectional HTTPS API and makes an auditable record in the product logs each time it submits a report. This process is GDPR-compliant.

Requirements

Automated license utilization reporting does not support _air-gapped installations_, which are systems with no network interfaces.

The following versions of Consul Enterprise support automated license utilization reporting:

- Patch releases of Consul Enterprise 1.14.8 and newer.
- Patch releases of Consul Enterprise 1.13.9 and newer.

Download a supported release from the [Consul Versions](https://releases.hashicorp.com/consul/) page.

Enable automated reporting

Before you enable automated reporting, make sure that outbound network traffic is configured correctly and upgrade your enterprise
 product to a version that supports it. If your installation is air-gapped or network settings are not in place, automated reporting will not work.

To enable automated reporting, complete the following steps:

1. [Allow outbound HTTPS traffic on port 443](#allow-outbound-https-traffic)

1. [Check product logs](#check-product-logs)

Allow outbound HTTPS traffic on port 443

Make sure that your network allows HTTPS egress on port 443 from `https://reporting.hashicorp.services` by adding the following IP adddresses to your allow-list:

- `100.20.70.12`
- `35.166.5.222`
- `23.95.85.111`
- `44.215.244.1`

Check product logs

Automatic license utilization reporting starts sending data within roughly 24 hours. Check the product logs for records that the data sent successfully.

<CodeBlockConfig hideClipboard>

```
[DEBUG] beginning snapshot export
[DEBUG] creating payload
[DEBUG] marshalling payload to json
[DEBUG] generating authentication headers
[DEBUG] creating request
[DEBUG]
 sending request
[DEBUG] performing request: method=POST url=https://census.license.hashicorp.services
[DEBUG] recording audit record
[INFO]  reporting: Report sent: auditRecord={"payload":{"payload_version":"1","license_id":"d2cdd857-4202-5a45-70a6-e4b531050c34","product":"consul","product_version":"1.16.0-dev+ent","export_timestamp":"2023-05-26T20:09:13.753921087Z","snapshots":[{"snapshot_version":1,"snapshot_id":"0001J724F90F4XWQDSAA76ZQWA","process_id":"01H1CTJPC1S8H7Q45MKTJ689ZW","timestamp":"2023-05-26T20:09:13.753513962Z","schema_version":"1.0.0","service":"consul","metrics":{"consul.billable.nodes":{"key":"consul.billable.nodes","kind":"counter","mode":"write","value":2},"consul.billable.service_instances":{"key":"consul.billable.service_instances","kind":"counter","mode":"write","value":2}}}],"metadata":{}}}
[DEBUG] completed recording audit record
[DEBUG] export finished successfully"
```

</CodeBlockConfig>

If your installation is air-gapped or your network does not allow the
 correct egress, the logs show an error.

<CodeBlockConfig hideClipboard>

```

```

```
[DEBUG] reporting: beginning snapshot export
[DEBUG] reporting: creating payload
[DEBUG] reporting: marshalling payload to json
[DEBUG] reporting: generating authentication headers
[DEBUG] reporting: creating request
[DEBUG] reporting: sending request
[DEBUG] reporting: performing request: method=POST url=https://census.license.hashicorp.services
[DEBUG] reporting: error status code received: statusCode=403
```

</CodeBlockConfig>

In this case, reconfigure your network to allow egress and check the logs again in roughly 24 hours to confirm that automated reporting works correctly.

Opt out

If your installation is air-gapped or you want to manually collect and report on the same license utilization metrics, you can opt out of automated reporting.

Manually reporting these metrics can be time consuming. Opting out of automated reporting does not mean that you also opt out from sending license utilization
metrics. Customers who opt out of automated reporting are still required to manually collect and send license utilization metrics to HashiCorp.

If you are considering opting out because you are worried about the data, we strongly recommend that you review the [example payloads](#example-payloads) before opting out. If you have concerns with any of the automatically reported data, raise these concerns with your account manager.

There are two methods for opting out of automated reporting:

- HCL configuration (recommended)
- Environment variable (requires restart)

We recommend opting out in your product's configuration file because it does not require a system restart. Add the following block to your `configuration.hcl` or `configuration.json` file.

```hcl
reporting {
 license {
  enabled = false
 }
}
```

When opting out using an environment variable, the system provides a startup message confirming that you have disabled automated reporting. Set the following environment variable

to disable automated reporting:

<CodeBlockConfig>

```shell-session
$ export OPTOUT_LICENSE_REPORTING=true
```

</CodeBlockConfig>

After you set the environment variable, restart your system to complete the process for opting out.

```shell-session
$ consul reload
```

Check your product logs roughly 24 hours after opting out to make sure that the system is not trying to send reports. Keep in mind that if your configuration file and environment variable differ, the environment variable setting takes precedence.

Example payloads

HashiCorp collects the following utilization data as JSON payloads:
`exporter_version` - The version of the licensing exporter

<CodeBlockConfig hideClipboard>

```json
{
 "payload": {
   "payload_version": "1",
   "license_id": "d2cdd857-4202-5a45-70a6-e4b531050c34",
   "product": "consul",
   "product_version": "1.16.0-dev+ent",
   "export_timestamp": "2023-05-26T20:09:13.753921087Z",
   "snapshots": [
     {
       "snapshot_version":
 1,
       "snapshot_id": "0001J724F90F4XWQDSAA76ZQWA",
       "process_id": "01H1CTJPC1S8H7Q45MKTJ689ZW",
       "timestamp": "2023-05-26T20:09:13.753513962Z",
       "schema_version": "1.0.0",
       "service": "consul",
       "metrics": {
         "consul.billable.nodes": {
           "key": "consul.billable.nodes",
```

```
          "kind": "counter",
          "mode": "write",
          "value": 2
        },
        "consul.billable.service_instances": {
          "key": "consul.billable.service_instances",
          "kind": "counter",
          "mode": "write",
          "value": 2
        }
      }
    }
  ],
  "metadata": {}
 }
}
```


</CodeBlockConfig>
@import './skin';
@import './layout';
---
layout: docs
page_title: Enterprise License FAQ
description: >-
 Review frequently asked questions (FAQs) about Consul Enterprise licenses to learn more about how licenses work, what happens when they expire, and how to get a trial license.

Frequently Asked Questions (FAQ)

This FAQ is for the license changes introduced in Consul Enterprise version 1.10.0.
Consul Enterprise automatically loads Consul licenses when the server agent starts.

Q: Can I get a quick summary of the Consul changes?

Starting with Consul Enterprise 1.10.0, the license enablement process is different.

HashiCorp Enterprise servers will no longer start without a license. Servers require licenses to be provided from either an environment variable or file.
If the license is missing, invalid, or expired, the server will immediately exit.
This check is part of the server boot-up process.

In previous versions of HashiCorp enterprise products, one server could distribute a license to other servers via the Raft protocol.
This will no longer work since each server must be able to find a valid license during the startup process.

Q: What are the upgrade requirements?

All customers on Consul Enterprise 1.8/1.9 must first upgrade their client and server agents to the latest patch release.
During the upgrade the license file must also be configured on client agents in an environment variable or file path, otherwise the Consul agents will fail to retrieve the license with a valid agent token.
The upgrade process varies if ACLs are enabled or disabled in the cluster.
Refer to the instructions on [upgrading to 1.10.x](/docs/upgrading/instructions/upgrade-to-1-10-x) for details.

Q: Is there a tutorial available for the license configuration steps?

Please visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?utm_source=docs).

Q: What resources are available?

The list below is a great starting point for learning more about the
license changes introduced in Consul Enterprise 1.10.0+ent.

- [Consul Enterprise Upgrade Documentation](/docs/enterprise/upgrades)

- [Consul License Documentation](/docs/enterprise/license/overview)

- [License configuration values documentation](/docs/enterprise/license/overview#binaries-without-built-in-licenses)

- [Install a HashiCorp Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?utm_source=docs)

Q: Do these changes impact all customers/licenses?

The license changes introduced in 1.10.0 only affect Consul Enterprise.
This impacts customers that have an enterprise binary (trial or non-trial licenses) downloaded from https://releases.hashicorp.com.
The license changes do not impact customers with the baked-in licensed binaries. In a later release of Consul Enterprise, baked-in binaries will be deprecated.

Q: What is the product behavior change introduced by the licensing changes?

Starting with Consul Enterprise 1.10.0,
a valid license is required on-disk (auto-loading) or as an environment variable for Consul Enterprise to successfully boot-up.
The in-storage license feature will not be supported starting with Consul Enterprise 1.10.0+ent. All Consul Enterprise clusters using 1.10.0+ent must ensure that there is a valid license on-disk (auto-loaded) or as an environment variable.

Q: What is the impact on trial licenses due to this change? ((#q-what-is-the-impact-on-evaluation-licenses-due-to-this-change))

Consul Enterprise 1.10.0+ server agents require a valid license to start.
The license can be provided on disk (auto-loaded) or as an environment variable.
There is no longer a 6-hour trial period in which Consul Enterprise server agents
can operate without a license.

Q: Is there a grace period when licenses expire?

YesConsul will continue normal operation and can be restarted after license *expiration* as defined in [`expiration_time`](/api-docs/operator/license#getting-the-consul-license).
As
license expiration is approached or passed, Consul will issue warnings in the system logs.

Consul will only cease operation after license *termination*, which occurs 10 years
after license expiration and is defined in
[`termination_time`](/api-docs/operator/license#getting-the-consul-license).

~> **Starting with Consul 1.14, and patch releases 1.13.3 and 1.12.6, Consul will support non-terminating licenses**:
Please contact your support representative for more details on non-terminating licenses.
An expired license will not allow Consul versions released after the expiration date to run.
It will not be possible to upgrade to a new version of Consul released after license expiration.

Q: Does this affect client agents?

There are upgrade requirements that affect Consul Enterprise clients.
Please review the [upgrade requirements](#q-what-are-the-upgrade-requirements) documentation.

Q: Does this affect snapshot agents?

Same behavior as Consul clients. See
answer for [Does this affect client agents?](#q-does-this-affect-client-agents)

Q: What is the behavior if the license is missing?

Consul server agents will detect the absence of the license and immediately exit.

Consul client agents will attempt to retrieve the license from servers if certain conditions are met:

- ACLs are enabled.
- An ACL token is provided to the client agent.
- The client agents configuration contains `start_join/retry_join` addresses.
- The start/retry join addresses are addresses of the Consul servers.

Consul snapshot agents will attempt to retrieve the license from servers if certain conditions are met: ACLs are enabled, a ACL token is provided to the client agent, the client agents configuration contains `start_join/retry_join` addresses, the start/retry join addresses are addresses of the Consul servers.

Q: Where can users get a trial license for Consul Enterprise?

Contact your [HashiCorp Support contact](https://support.hashicorp.com/) for a development license.

~> **Trial install will cease operation 24 hours after 30-day license expiration**:
Trial licenses are not meant to be used in production.
This is unlike non-trial licenses which provide a 10 year grace period as described in the answer for [Q: Is there a grace period when licenses expire?](#q-is-there-a-grace-period-when-licenses-expire).

Q: How can I renew a license?

Contact your organization's [HashiCorp account team](https://support.hashicorp.com/hc/en-us) for information on how to renew your organization's enterprise license.

Q: I'm an existing enterprise customer but don't have my license, how can I get it?

Contact your organization's [HashiCorp account team](https://support.hashicorp.com/hc/en-us) for information on how to renew your organization's enterprise license.

Q: Are the license files locked to a specific cluster?

The license files are not locked to a specific cluster or cluster node. The above changes apply to all nodes in a cluster.

Q: Will this impact HCP Consul?

This will not impact HCP Consul.

Q: Does this need to happen every time a node restarts, or is this a one-time check?

Consul Enterprise binaries starting with 1.10.0+ent, will be subject to EULA check. Release 1.10.0+ent introduces the EULA check for trial licenses (non-trial licenses already go through EULA check during contractual agreement).

The agreement to a EULA happens only once (when the user gets their license), Consul Enterprise **will check for the presence of a valid license every time a node restarts**.

When a customer upgrades existing clusters to a 1.10.0+ent release, they need to have a valid license to successfully upgrade. This valid license must be auto-loaded.

When a customer deploys new clusters to a 1.10.0+ent release, they need to have a valid license to successfully upgrade. This valid license must be on-disk (auto-loaded).

Q: What are the scenarios that a customer must plan for because of these changes?

New Consul cluster deployments using 1.10.0+ent will need to have a valid license on servers to successfully deploy. This valid license must be on-disk (auto-loaded) or as an environment variable.

Please see the [upgrade requirements](/consul/docs/enterprise/license/faq#q-what-are-the-upgrade-requirements).

Q: What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?

VM

1. Run [`consul license get -signed`](/commands/license#get) to extract the license from their running cluster. Store the license in a secure location on disk.
1. Set up the necessary configuration so that when Consul Enterprise reboots it will have access to the required license. This could be via the client agent configuration file or an environment variable.
1. Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?utm_source=docs) for detailed steps on how to install
 the license key.
1. Follow the Consul upgrade [documentation](/docs/upgrading).

Kubernetes

NOTE: If you are not upgrading Consul or your Helm chart version then no action is required.

1. In order to use Consul Enterprise 1.10.0 or greater on Kubernetes you must use version 0.32.0 or greater of the Helm chart.
1. You should already have a Consul Enterprise license set as a Kubernetes secret. If you do not, refer to [how to obtain a copy of your license](/docs/enterprise/license/faq#q-i-m-an-existing-enterprise-customer-but-don-t-have-my-license-how-can-i-get-it).
Once you have the license then create a Kubernetes secret containing the license as described in [Kubernetes - Consul Enterprise](/docs/k8s/deployment-configurations/consul-enterprise).
1. Follow the [Kubernetes Upgrade Docs](/docs/k8s/upgrade) to upgrade. No changes to your `values.yaml` file are needed to enable enterprise autoloading since this support is built in to consul-helm 0.32.0 and greater.

!> **Warning:**
 If you are upgrading the Helm chart but **not** upgrading the Consul version, you must set `server.enterpriseLicense.enableLicenseAutoload: false`. See [Kubernetes - Consul Enterprise](/docs/k8s/deployment-configurations/consul-enterprise) for more details.

Q: What is the migration path for customers who want to migrate from their existing perpetually-licensed binaries to the license on disk flow?

VM

1. Acquire a valid Consul Enterprise license. If you are an existing HashiCorp enterprise customer you may contact your organization's [customer success manager](https://support.hashicorp.com/hc/en-us) (CSM) for information on how to get your organization's enterprise license.
1. Store the license in a secure location on disk.
1. Set up the necessary configuration so that when Consul Enterprise reboots it will have the required license. This could be via the client agent configuration file or an environment variable.
  Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?utm_source=docs)

for detailed steps on how to install the license key.
1. Follow the Consul upgrade [documentation](/docs/upgrading).

Kubernetes

1. Acquire a valid Consul Enterprise license. If you are an existing HashiCorp enterprise customer you may contact your organization's [customer success manager](https://support.hashicorp.com/hc/en-us) (CSM) for information on how to get your organization's enterprise license.
1. Set up the necessary configuration so that when Consul Enterprise reboots it will have the required license. This could be via the client agent configuration file or an environment variable.
Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?utm_source=docs) for detailed steps on how to install the license key.
1. Proceed with the `helm` [upgrade instructions](/docs/k8s/upgrade)

Q: Will Consul downgrades/rollbacks work?

When downgrading
to a version of Consul before 1.10.0+ent, customers will need to follow the previous process for applying an enterprise licenses to Consul Enterprise.

Q: Are there potential pitfalls when downgrading or upgrading Consul server instances?

~> Verify that you meet the [upgrade requirements](/consul/docs/enterprise/license/faq#q-what-are-the-upgrade-requirements).

Assume a scenario where there are three Consul server nodes:

- Node A: v1.9.5
- Node B: v1.10.0 [Leader]
- Node C: v1.9.5

The command `consul license put` is issued from Node A. This will result in an error due to how Consul routes calls to the server node, Node B in this example.
Because Node A is a follower when the call `consul license put` is issued, the call will be redirected to Node B (leader).
The `consul license put` operation will fail due to being removed from 1.10.0.
This is a scenario that could occur if a customer downgrades from 1.10.0+ and the Consul leadership has not transferred back over to a node not
running 1.10.0+.
This also has the potential of occurring when upgrading if scheduled license updates or autoscaling groups recoveries are in place.

Q: Any impacts to Consul Kubernetes?

If you are using a Consul Enterprise version prior to 1.10.0 and decide to upgrade the Helm chart to version 0.32.0 or newer, but not the Consul version.
You will need to add the following configuration.

```
server:
 enterpriseLicense:
   enableLicenseAutoload: false
```
```
section[data-route='dc.show.license'] {
 @extend %license-route;
}
%license-route .validity {
 @extend %license-validity;
}
%license-route aside {
 @extend %license-route-learn-more;
}

%license-route h2 {
 @extend %h200;
}

%license-validity p {
 color: rgb(var(--tone-gray-700));
}
%license-validity dl {
 @extend %horizontal-kv-list;
 font-size: var(--typo-size-400);
}
%license-validity dl .expired + dd {
 @extend %visually-hidden;
}
%license-validity dl dt::before {
 content: '';
 margin-right: 0.25rem; /* 4px */
}
%license-validity dl .expired::before {
 --icon-name: icon-x-circle;
 --icon-color: rgb(var(--red-500));
}
%license-validity dl .warning::before {
 --icon-name: icon-alert-circle;
 --icon-color: rgb(var(--orange-500));
}
%license-validity dl .valid:not(.warning)::before {
 --icon-name: icon-check-circle;
 --icon-color: rgb(var(--green-500));
}

%license-route-learn-more {
 @extend %panel;
```

```
 box-shadow: var(--decor-elevation-000);
 padding: var(--padding-y)
 var(--padding-x);
 width: 40%;
 min-width: 413px;
 margin-top: 1rem; /* 16px */
}
%license-route-learn-more header > :first-child {
 @extend %h300;
}
%license-route-learn-more header {
 margin-bottom: 1rem; /* 16px */
}
%license-route-learn-more li {
 margin-bottom: 0.25rem; /* 4px */
}
%license-route-learn-more a::before {
 --icon-name: icon-docs-link;
 content: '';
 margin-right: 0.375rem; /* 6px */
}
```

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This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this project, you can obtain one at http://mozilla.org/MPL/2.0/.

```
<Notice
 class="consul-intention-notice-custom-resource crd"
 ...attributes
 @type={{or @type "info"}}
as |notice|>
 <notice.Header>
   <h3>
     Intention Custom Resource
   </h3>
 </notice.Header>
 <notice.Body>
   <p>
     Some of your intentions are being managed through an Intention Custom Resource in your Kubernetes cluster. Those managed intentions will be view only in the UI. Any intentions created in the UI will work but will not be synced to the Custom Resource Definition (CRD) datastore.
   </p>
 </notice.Body>
 <notice.Footer>
   <p>
     <a href="{{env 'CONSUL_DOCS_URL'}}/k8s/crds" target="_blank" rel="noopener noreferrer">Learn more about CRDs</a>
   </p>
 </notice.Footer>
```

```
</Notice>
.consul-intention-permission-form {
 h2 {
   border-top: 1px solid rgb(var(--tone-blue-500));
   @extend %h200;
 }
 button.type-submit {
   @extend %frame-blue-300;
 }
 button.type-submit:hover:not(:disabled),
 button.type-submit:focus:not(:disabled) {
   @extend %frame-blue-500;
 }
 button.type-submit:disabled {
   @extend %frame-blue-200;
 }
}

.consul-intention-view {
 h2 {
   @extend %h200;
 }
}
---
layout: api
page_title: License - Operator - HTTP API
description: |-
 The /operator/license endpoint allows for retrieving the Consul
 Enterprise License.
---

# License - Operator HTTP API

<EnterpriseAlert />

The licensing functionality described here is available only in
[Consul Enterprise](https://www.hashicorp.com/products/consul/) version 1.1.0 and later.

## Getting the Consul License

This endpoint gets information about the current license.

| Method | Path                | Produces           |
| ------ | ------------------- | ------------------ |
| `GET`  | `/operator/license` | `application/json` |

The table below shows this endpoint's support for
[blocking queries](/api-docs/features/blocking),
```

[consistency modes](/api-docs/features/consistency),
[agent caching](/api-docs/features/caching), and
[required ACLs](/api-docs/api-structure#authentication).

Blocking Queries	Consistency Modes	Agent Caching	ACL Required
`NO`	`all`	`none`	`none`

The corresponding CLI command is [`consul license get`](/commands/license#get).

Query Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be retrieved.
 This will default to the datacenter of the agent serving the HTTP request.

Sample Request

```shell-session
$ curl \
  http://127.0.0.1:8500/v1/operator/license
```

Sample Response

```json
{
 "Valid": true,
 "License": {
  "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
  "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
  "installation_id": "*",
  "issue_time": "2018-05-21T20:03:35.911567355Z",
  "start_time": "2018-05-21T04:00:00Z",
  "expiration_time": "2019-05-22T03:59:59.999Z",
  "product": "consul",
  "flags": {
   "package": "premium"
  },
  "features": [
   "Automated Backups",
   "Automated Upgrades",
   "Enhanced Read Scalability",

   "Network Segments",
   "Redundancy Zone",
   "Advanced Network Federation"
  ],
```

```
  "temporary": false
 },
 "Warnings": []
}
```

Updating the Consul License

-> **Deprecated** This endpoint was removed in Consul v1.10.0 along with
the ability to manage the cluster's license via the API.

This endpoint updates the Consul license and returns some of the
license contents as well as any warning messages regarding its validity.

Method	Path	Produces
`PUT`	`/operator/license`	`application/json`

The table below shows this endpoint's support for
[blocking queries](/api-docs/features/blocking),
[consistency modes](/api-docs/features/consistency),
[agent caching](/api-docs/features/caching), and
[required ACLs](/api-docs/api-structure#authentication).

Blocking Queries	Consistency Modes	Agent Caching	ACL Required
`NO`	`none`	`none`	`operator:write`

The corresponding CLI command is [`consul license put`](/commands/license#put).

Query Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be updated.
 This will default to the datacenter of the agent serving the HTTP request.

Sample Payload

The payload is the raw license blob.

Sample Request

```shell-session
$ curl \
  --request PUT \
  --data @consul.license \
  http://127.0.0.1:8500/v1/operator/license
```

Sample Response

```json
{
 "Valid": true,
 "License": {
   "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
   "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
   "installation_id": "*",
   "issue_time": "2018-05-21T20:03:35.911567355Z",
   "start_time": "2018-05-21T04:00:00Z",
   "expiration_time": "2019-05-22T03:59:59.999Z",
   "product": "consul",
   "flags": {
     "package": "premium"
   },
   "features":
 [
     "Automated Backups",
     "Automated Upgrades",
     "Enhanced Read Scalability",
     "Network Segments",
     "Redundancy Zone",
     "Advanced Network Federation"
   ],
   "temporary": false
 },
 "Warnings": []
}
```

Resetting the Consul License

-> **Deprecated** This endpoint was removed in Consul v1.10.0 along with
the ability to manage the cluster's license via the API.

This endpoint resets the Consul license to the license included in the Enterprise binary. If the included license is not valid, the replace will fail.

Method	Path	Produces
`DELETE`	`/operator/license`	`application/json`

The table below shows this endpoint's support for
[blocking queries](/api-docs/features/blocking),
[consistency modes](/api-docs/features/consistency),
[agent caching](/api-docs/features/caching), and

[required ACLs](/api-docs/api-structure#authentication).

Blocking Queries	Consistency Modes	Agent Caching	ACL Required
`NO`	`none`	`none`	`operator:write`

The corresponding CLI command is [`consul license reset`](/commands/license#reset).

Query Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be updated. This will default to the datacenter of the agent serving the HTTP request.

Sample Request

```shell-session
$ curl \
   --request DELETE \
   http://127.0.0.1:8500/v1/operator/license
```

Sample Response

```json
{
 "Valid": true,
 "License": {
   "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
   "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
   "installation_id": "*",
   "issue_time": "2018-05-21T20:03:35.911567355Z",
   "start_time": "2018-05-21T04:00:00Z",
   "expiration_time": "2019-05-22T03:59:59.999Z",
   "product": "consul",
   "flags": {

     "package": "premium"
   },
   "features": [
     "Automated Backups",
     "Automated Upgrades",
     "Enhanced Read Scalability",
     "Network Segments",
     "Redundancy Zone",
     "Advanced Network Federation"
   ],
   "temporary": false
```

```
 },
 "Warnings": []
}
```
```
@import './skin';
@import './layout';

%notice {
 margin: 1em 0;
}
/**/
.notice.success {
 @extend %notice-success;
}
.notice.warning {
 @extend %notice-warning;
}
.notice.error {
 @extend %notice-error;
}
.notice.info {
 @extend %notice-info;
}
.notice.highlight {
 @extend %notice-highlight;
}
.notice.policy-management {
 @extend %notice-highlight;
}
.notice.crd::before {
 -webkit-mask-image: none;
 mask-image: none;
 background-color: transparent;
 @extend %with-logo-kubernetes-color-icon;
}
---
layout: docs
page_title: Enterprise Licenses
description: >-
 Consul Enterprise server, client, and snapshot agents require a license on startup in order to use Enterprise features. Learn how to apply licenses using environment variables or configuration files.
---

# Consul Enterprise License

## Licensing Overview

All Consul Enterprise agents must be licensed when they are started. Where that license comes from will depend
```

on which binary is in use, whether the agent is a server, client or snapshot agent, and whether ACLs have been enabled for the cluster.

-> ** Consul Enterprise 1.10.0 removed temporary licensing.** Prior to 1.10.0, Consul Enterprise agents could start without a license and then have a license applied to them later on via the CLI or API. That functionality has been removed and replaced with the ability to load licenses from the agent's configuration or environment. Also, prior to 1.10.0, server agents would automatically propagate the license between themselves.
This no longer occurs and the license must be present on each server agent when it is started.

Consul Enterprise 1.14.0, when running on Kubernetes, removed client agents and replaced these with virtual agents.
Virtual agents are nodes that Consul service mesh services run on. HashiCorp uses virtual agents to determine license entitlements for customers on per-node licensing and pricing agreements.

-> Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?utm_source=docs) for detailed steps on how to install the license key.

Applying a License

For Consul Enterprise 1.10.0 or greater, a license must be available at the time the agent starts.
For server agents this means that they must either have the [`license_path`](/docs/agent/config/config-files#license_path)
configuration set or have a license configured in the servers environment with the `CONSUL_LICENSE` or `CONSUL_LICENSE_PATH` environment variables. Both the configuration
item and the `CONSUL_LICENSE_PATH`
environment variable point to a file containing the license whereas the `CONSUL_LICENSE` environment variable should contain the license as the value. If multiple variables are set,
the following order of precedence applies:

1. `CONSUL_LICENSE` environment variable
2. `CONSUL_LICENSE_PATH` environment variable
3. `license_path` configuration item.

Client agents and [snapshot agents](/docs/enterprise/backups)
may also be licensed in the very same manner.
However, to avoid the need to configure the license on many client agents and snapshot agents,
those agents have the capability to retrieve the license automatically under the conditions described below.

Virtual agents do not need the license to run.

Updating the license for an agent depends on the method you used to apply the license.
- **If you used the `CONSUL_LICENSE`
environment variable**: After updating the environment variable, restart the affected agents.
- **If you used the
`CONSUL_LICENSE_PATH`

environment variable**: Update the license file first. Then, restart the affected agents.
- **If you used the `license_path` configuration item**: Update the license file first. Then, run [`consul reload`](/commands/reload) for the affected agents.

Client Agent License Retrieval

When a client agent starts without a license in its configuration or environment, it will try to retrieve the license from the servers via RPCs. That RPC always requires a valid non-anonymous ACL token to authorize the request but the token doesn't need any particular permissions. As the license is required before the client actually joins the cluster, where to make those RPC requests to is inferred from the [`start_join`](/docs/agent/config/config-files#start_join) or [`retry_join`](/docs/agent/config/config-files#retry_join) configurations. If those are both unset or no [`agent` token](/docs/agent/config/config-files#acl_tokens_agent) is set then the client agent will immediately shut itself down.

If all preliminary checks pass the client agent will attempt to reach out to any server on its RPC port to request the license. These requests will be retried for up to 5 minutes and if it is unable to retrieve a license within that time frame it will shut itself down.

If ACLs are disabled then the license must be provided to the client agent through one of the three methods listed below.
Failure in providing the client agent with a licence will prevent the client agent from joining the cluster.

1. `CONSUL_LICENSE` environment variable
2. `CONSUL_LICENSE_PATH` environment variable
3. `license_path` configuration item.

Snapshot Agent License Retrieval

The snapshot agent has similar functionality to the client agent for automatically retrieving the license. However, instead of requiring a server agent to talk to, the snapshot agent can request the license from the server or client agent it would use for all other operations. It still requires an ACL token to authorize the request. Also like client agents, the snapshot agent will shut itself down after being unable to retrieve the license for 5 minutes.

```
%notice {
 border-radius: var(--decor-radius-100);
 border: var(--decor-border-100);
 color: rgb(var(--tone-gray-999));
}
%notice::before {
 @extend %as-pseudo;
}
%notice header > * {
 @extend %h300;
}
%notice footer * {
 @extend %p3;
```

```
 font-weight: var(--typo-weight-bold);
}
%notice-success,
%notice-info,
%notice-highlight,
%notice-error,
%notice-warning {
 @extend %notice;
}
%notice-success {
 background-color: rgb(var(--tone-green-050));
 border-color: rgb(var(--tone-green-500));
}
%notice-success header * {
 color: rgb(var(--tone-green-800));
}
%notice-info {
 border-color: rgb(var(--tone-blue-100));
 background-color: rgb(var(--tone-blue-010));
}
%notice-info header * {
 color: rgb(var(--tone-blue-700));
}
%notice-highlight {
 background-color: rgb(var(--tone-gray-050));
 border-color: rgb(var(--tone-gray-300));
}
%notice-info header * {
 color: rgb(var(--tone-blue-700));
}
%notice-warning {
 border-color: rgb(var(--tone-yellow-100));
 background-color: rgb(var(--tone-yellow-050));
}
%notice-warning
 header * {
 color: rgb(var(--tone-yellow-800));
}
%notice-error {
 background-color: rgb(var(--tone-red-050));
 border-color: rgb(var(--tone-red-500));
}
%notice-error header * {
 color: rgb(var(--tone-red-500));
}
%notice-success::before {
 @extend %with-check-circle-fill-mask;
 color: rgb(var(--tone-green-500));
```

```
}
%notice-info::before {
 @extend %with-info-circle-fill-mask;
 color: rgb(var(--tone-blue-500));
}
%notice-highlight::before {
 @extend %with-star-fill-mask;
 color: rgb(var(--tone-yellow-500));
}
%notice-warning::before {
 @extend %with-alert-triangle-mask;
 color: rgb(var(--tone-orange-500));
}
%notice-error::before {
 @extend %with-cancel-square-fill-mask;
 color: rgb(var(--tone-red-500));
}
{{#if isVisible}}
 <Notice data-test-node-agentless-notice @type='info' class='agentless-node-notice' as |notice|>
   <notice.Header>
     <h3>
       {{t 'routes.dc.nodes.index.agentless.notice.header'}}
     </h3>
     <button type='button' aria-label='Dismiss notice' {{on 'click' this.dismissAgentlessNotice}}>
       <FlightIcon @name='x' />
     </button>
   </notice.Header>
   <notice.Body>
     <p>
       {{t 'routes.dc.nodes.index.agentless.notice.body'}}
     </p>
   </notice.Body>
   <notice.Footer>
     <p class='docs-link'>
       <a
         href='{{env "CONSUL_DOCS_DEVELOPER_URL"}}/connect/dataplane'
         target='_blank'
         rel='noopener noreferrer'
       >
         {{t 'routes.dc.nodes.index.agentless.notice.footer'}}
       </a>
     </p>
   </notice.Footer>
 </Notice>
{{/if}}
```

1.4413 netty-tcnative-boringssl-static 2.0.65.Final

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* /opt/cola/permits/2062016705_1718803905.3627763/0/logback-core-1-5-6-sources-1-jar/ch/qos/logback/core/rolling/SizeAndTimeBasedFNATP.java
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* /opt/cola/permits/2062016705_1718803905.3627763/0/logback-core-1-5-6-sources-1-jar/ch/qos/logback/core/util/SimpleInvocationGate.java
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* /opt/cola/permits/2062016705_1718803905.3627763/0/logback-core-1-5-6-sources-1-jar/ch/qos/logback/core/testUtil/EnvUtilForTests.java
* /opt/cola/permits/2062016705_1718803905.3627763/0/logback-core-1-5-6-sources-1-jar/ch/qos/logback/core/testUtil/TrivialStatusListener.java
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* /opt/cola/permits/2062016705_1718803905.3627763/0/logback-core-1-5-6-sources-1-jar/ch/qos/logback/core/joran/event/SaxEventRecorder.java
* /opt/cola/permits/2062016705_1718803905.3627763/0/logback-core-1-5-6-sources-1-jar/ch/qos/logback/core/joran/spi/JoranException.java
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* /opt/cola/permits/2062016705_1718803905.3627763/0/logback-core-1-5-6-sources-1-jar/ch/qos/logback/core/joran/spi/EventPlayer.java
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* /opt/cola/permits/2062016705_1718803905.3627763/0/logback-core-1-5-6-sources-1-jar/ch/qos/logback/core/Appender.java
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* /opt/cola/permits/2062016705_1718803905.3627763/0/logback-core-1-5-6-sources-1-jar/ch/qos/logback/core/model/processor/AppenderRefDependencyAnalyser.java
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* /opt/cola/permits/2062016705_1718803905.3627763/0/logback-core-1-5-6-sources-1-jar/ch/qos/logback/core/model/processor/conditional/ThenModelHandler.java
* /opt/cola/permits/2062016705_1718803905.3627763/0/logback-core-1-5-6-sources-1-jar/ch/qos/logback/core/model/processor/DefineModelHandler.java
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* /opt/cola/permits/2062016705_1718803905.3627763/0/logback-core-1-5-6-sources-1-jar/ch/qos/logback/core/model/ModelHandlerFactoryMethod.java
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* /opt/cola/permits/2062016705_1718803905.3627763/0/logback-core-1-5-6-sources-1-jar/ch/qos/logback/core/joran/action/BaseModelAction.java
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* /opt/cola/permits/2062016705_1718803905.3627763/0/logback-core-1-5-6-sources-1-jar/ch/qos/logback/core/model/ModelConstants.java
* /opt/cola/permits/2062016705_1718803905.3627763/0/logback-core-1-5-6-sources-1-jar/ch/qos/logback/core/model/DefineModel.java
* /opt/cola/permits/2062016705_1718803905.3627763/0/logback-core-1-5-6-sources-1-jar/ch/qos/logback/core/model/ImportModel.java
* /opt/cola/permits/2062016705_1718803905.3627763/0/logback-core-1-5-6-sources-1-jar/ch/qos/logback/core/model/processor/conditional/IfModelHandler.java

1.4415 sqlite 3.46.0

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1.4416 kubernetes-klog 2.130.1

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1.4417 kafka-clients 3.7.0

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1.4442 github.com/grafana/grafana-plugin-sdk-go 0.198.0

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1.4444 grafana-grafana-azure-sdk-go 1.11.0

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1.4445 metrics 4.2.26

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```
Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics
Build-Jdk-Spec: 17
Bundle-Description: Metrics is a Java library which gives you unparall
eled insight into what your code does in       production. Metrics p
rovides a powerful toolkit of ways to measure the behavior of critica
l       components in your production environment.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Core
Bundle-SymbolicName: io.dropwizard.metrics.core
Bundle-Version: 4.2.26
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics;uses:="org.slf4j";version="4.2.26
"
Implementation-Title: Metrics Core
Implementation-Version: 4.2.26
Import-Package: org.slf4j;version="[1.6.0,2.0.0)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316
```

Found in path(s):
* /opt/cola/permits/2072546664_1723483178.8153198/0/metrics-core-4-2-26-jar/META-INF/MANIFEST.MF

1.4446 common 0.55.0

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lib/erl/src/Makefile.am

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For the aclocal/ax_boost_base.m4 and contrib/fb303/aclocal/ax_boost_base.m4
components:

```
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```

For the lib/nodejs/lib/thrift/json_parse.js:

```
/*
   json_parse.js
   2015-05-02
   Public Domain.
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*/
```

(By Douglas Crockford <douglas@crockford.com>)

For lib/cpp/src/thrift/windows/SocketPair.cpp

```
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*/
```

For lib/py/compat/win32/stdint.h

```
// ISO C9x  compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
//  Copyright (c) 2006-2008 Alexander Chemeris
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//
//

Codegen template
in t_html_generator.h

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*
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*
* Designed and built with all the love in the world @twitter by @mdo and @fat.

For t_cl_generator.cc

* Copyright (c) 2008- Patrick Collison <patrick@collison.ie>
* Copyright (c) 2006- Facebook

1.4451 google-pprof 0.0.0-20240508145209-1db217f89380

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Found in path(s):
* /opt/cola/permits/2076829331_1736961791.7318747/0/golang-github-google-pprof-master-zip/golang-github-google-pprof-master/golang-github-google-pprof.spec

1.4452 xz 0.5.12

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```
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package main

import (
 "bufio"
 "bytes"
 "flag"
 "fmt"
 "io"
 "log"
 "os"
 "path/filepath"
 "strings"
)

const crUsageString = `xb copyright [options] <path>....

The xb copyright command adds a copyright remark to all go files below path.

 -h  prints this message and exits
`

func crUsage(w io.Writer) {
 fmt.Fprint(w, crUsageString)
}

const copyrightText = `
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`

func goComment(text string) string {
 buf := new(bytes.Buffer)
 scanner := bufio.NewScanner(strings.NewReader(text))
 var err error
 for scanner.Scan() {
  s := strings.TrimSpace(scanner.Text())
  if len(s) == 0 {
   continue
```

```
 }
 if _, err = fmt.Fprintln(buf, "//", s); err != nil {
  panic(err)
 }
}
if err
= scanner.Err(); err != nil {
 panic(err)
}
if _, err = fmt.Fprintln(buf); err != nil {
 panic(err)
}
return buf.String()
}

var goCopyright = goComment(copyrightText)

func addCopyright(path string) (err error) {
 log.Printf("adding copyright to %s", path)
 src, err := os.Open(path)
 if err != nil {
  return err
 }
 defer func() {
  cerr := src.Close()
  if cerr != nil && err == nil {
   err = cerr
  }
 }()
 newPath := path + ".new"
 dst, err := os.Create(newPath)
 if err != nil {
  return err
 }
 defer func() {
  cerr := dst.Close()
  if cerr != nil && err == nil {
   err = cerr
  }
 }()
 out := bufio.NewWriter(dst)
 fmt.Fprint(out, goCopyright)
 scanner := bufio.NewScanner(src)
 line := 0
 del := false
 for scanner.Scan() {
  line++
  txt := scanner.Text()
```

```
 if line == 1 && strings.Contains(txt, "Copyright") {
  del = true
  continue
 }
 if del {
  s := strings.TrimSpace(txt)
  if len(s) == 0 {
   del = false
  }
  continue
 }
 fmt.Fprintln(out, txt)
}
if err = scanner.Err();
err != nil {
 return err
}
if err = out.Flush(); err != nil {
 return
}
err = os.Rename(newPath, path)
return
}

func walkCopyrights(path string, info os.FileInfo, err error) error {
 if err != nil {
  return err
 }
 if info.IsDir() {
  return nil
 }
 if !strings.HasSuffix(info.Name(), ".go") {
  return nil
 }
 return addCopyright(path)
}

func copyright() {
 cmdName := os.Args[0]
 log.SetPrefix(fmt.Sprintf("%s: ", cmdName))
 log.SetFlags(0)

 flag.CommandLine = flag.NewFlagSet(cmdName, flag.ExitOnError)
 flag.Usage = func() { crUsage(os.Stderr); os.Exit(1) }

 help := flag.Bool("h", false, "")

 flag.Parse()
```

```
 if *help {
  crUsage(os.Stdout)
  os.Exit(0)
 }

 for _, path := range flag.Args() {
  fi, err := os.Stat(path)
  if err != nil {
   log.Print(err)
   continue
  }
  if !fi.IsDir() {
   log.Printf("%s is not a directory", path)
   continue
  }
  if err = filepath.Walk(path, walkCopyrights); err != nil {
   log.Fatalf("%s error %s", path, err)
  }
 }
}
```

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`

1.4453 gax-go 2.12.5

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1.4454 klauspost-compress 1.17.9

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Files: snappy/*
Files: internal/snapref/*

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1.4455 googlecloudgo 0.115.0

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.34.1
//  protoc        v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
```

```
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
```

```
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":            1,
  "WRITER":           2,
  "READER":           3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
```

```
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
```

```
 *x = Permission{}
 if protoimpl.UnsafeEnabled {
  mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission)
 ProtoReflect() protoreflect.Message {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
```

```
 return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role
 != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
 0x19, 0x67, 0x6f,
 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
 0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
 0x0b, 0x67,
 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
 0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
 0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
```

```
 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
 0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
 0x64,
 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
 0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
 0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
```

```
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
 = []interface{}{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init()
 }
func file_google_ai_generativelanguage_v1beta_permission_proto_init() {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 if !protoimpl.UnsafeEnabled {
  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v interface{}, i int)
interface{} {
   switch v := v.(*Permission); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []interface{}{}
 type x struct{}
 out := protoimpl.TypeBuilder{
```

```
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
  GoTypes:          file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
  DependencyIndexes:
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
  EnumInfos:         file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
  MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
 }.Build()
 File_google_ai_generativelanguage_v1beta_permission_proto = out.File
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.
```

```
package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
```

```
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()
```

```
 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
```

```
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.ListLicensesRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
}
it := c.List(ctx, req)
for {
 resp, err := it.Next()
 if err == iterator.Done {
  break
 }
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp

 // If you need to access the underlying RPC response,
 // you can do so by casting the `Response` as below.
 // Otherwise, remove this line. Only populated after
 // first call to Next(). Not safe for concurrent access.
 _ = it.Response.(*computepb.LicensesListResponse)
}
}

func
 ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
```

```
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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```

```
// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
```

```
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

```
import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
```

```
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 GetIamPolicy:
[]gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
  gax.WithRetry(func() gax.Retryer {
   return gax.OnHTTPCodes(gax.Backoff{
    Initial:    100 * time.Millisecond,
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 Insert: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 List: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
  gax.WithRetry(func() gax.Retryer {
   return gax.OnHTTPCodes(gax.Backoff{
    Initial:    100 * time.Millisecond,
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 SetIamPolicy: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 TestIamPermissions: []gax.CallOption{
  gax.WithTimeout(600000
* time.Millisecond),
 },
}
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
```

```
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
```

```
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
 for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
 list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}
```

```
// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use
 only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()
```

```
 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close();
 err != nil {
  return err
 }
 return nil
}
```

```
// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v",
 "project", url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
```

```
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if
err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds
```

```
 = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return
 err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
```

```
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params",
 fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "resource",
url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return
```

```
err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery
 = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}
```

```
hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if
err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
```

```
 }
 return op, nil
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req
 *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

  params := url.Values{}
  if req != nil && req.Filter != nil {
   params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
  }
  if req != nil && req.MaxResults != nil {
   params.Add("maxResults", fmt.Sprintf("%v",
req.GetMaxResults()))
  }
  if req != nil && req.OrderBy != nil {
   params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
  }
  if req != nil && req.PageToken != nil {
   params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
  }
  if req != nil && req.ReturnPartialSuccess != nil {
   params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
  }
```

```
 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := append(c.xGoogHeaders, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if
err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
```

```
  }
  it.items = append(it.items, items...)
  return nextPageToken, nil
 }

 it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
 it.pageInfo.MaxSize = int(req.GetMaxResults())
 it.pageInfo.Token = req.GetPageToken()

 return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating
 Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
```

```
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource
 is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
```

```
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx,
 hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
```

```
 }, opts...)
 if e != nil {
  return
 nil, e
 }
 return resp, nil
}
```

1.4456 aws-sdk-go 1.54.11

1.4456.1 Available under license :


```
{
 "version": "2.0",
 "service": "<p>With License Manager, you can create user-based subscriptions to utilize licensed software with a per user subscription fee on Amazon EC2 instances.</p>",
 "operations": {
   "AssociateUser": "<p>Associates the user to an EC2 instance to utilize user-based subscriptions.</p> <note> <p>Your estimated bill for charges on the number of users and related costs will take 48 hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing status) in Amazon Web Services Billing. For more information, see <a href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p> </note>",
   "DeregisterIdentityProvider": "<p>Deregisters the identity provider from providing user-based subscriptions.</p>",
   "DisassociateUser": "<p>Disassociates the user from an EC2 instance providing user-based subscriptions.</p>",
   "ListIdentityProviders":
 "<p>Lists the identity providers for user-based subscriptions.</p>",
   "ListInstances": "<p>Lists the EC2 instances providing user-based subscriptions.</p>",
   "ListProductSubscriptions": "<p>Lists the user-based subscription products available from an identity provider.</p>",
   "ListUserAssociations": "<p>Lists user associations for an identity provider.</p>",
   "RegisterIdentityProvider": "<p>Registers an identity provider for user-based subscriptions.</p>",
   "StartProductSubscription": "<p>Starts a product subscription for a user with the specified identity provider.</p> <note> <p>Your estimated bill for charges on the number of users and related costs will take 48 hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing status) in Amazon Web Services Billing. For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your monthly charges</a> in the <i>Amazon Web
 Services Billing User Guide</i>.</p> </note>",
   "StopProductSubscription": "<p>Stops a product subscription for a user with the specified identity provider.</p>",
   "UpdateIdentityProviderSettings": "<p>Updates additional product configuration settings for the registered identity provider.</p>"
 },
 "shapes": {
   "AccessDeniedException": {
     "base": "<p>You don't have sufficient access to perform this action.</p>",
     "refs": {
     }
```

```
  },
  "ActiveDirectoryIdentityProvider": {
    "base": "<p>Details about an Active Directory identity provider.</p>",
    "refs": {
      "IdentityProvider$ActiveDirectoryIdentityProvider": "<p>An object that details an Active Directory identity
provider.</p>"
    }
  },
  "AssociateUserRequest": {
    "base": null,
    "refs": {
    }
  },
  "AssociateUserResponse": {
    "base": null,
    "refs": {
    }
  },
  "BoxInteger": {
    "base": null,
    "refs": {
      "ListIdentityProvidersRequest$MaxResults":
 "<p>Maximum number of results to return in a single call.</p>",
      "ListInstancesRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",
      "ListProductSubscriptionsRequest$MaxResults": "<p>Maximum number of results to return in a single
call.</p>",
      "ListUserAssociationsRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>"
    }
  },
  "ConflictException": {
    "base": "<p>The request couldn't be completed because it conflicted with the current state of the resource.</p>",
    "refs": {
    }
  },
  "DeregisterIdentityProviderRequest": {
    "base": null,
    "refs": {
    }
  },
  "DeregisterIdentityProviderResponse": {
    "base": null,
    "refs": {
    }
  },
  "DisassociateUserRequest": {
    "base": null,
    "refs": {
    }
```

},
"DisassociateUserResponse": {
"base": null,
"refs": {
}
},
"Filter": {
"base": " A
filter name and value pair that is used to return more specific results from a describe operation. Filters can be used to match a set of resources by specific criteria, such as tags, attributes, or IDs. ",
"refs": {
"FilterList$member": null
}
},
"FilterList": {
"base": null,
"refs": {
"ListInstancesRequest$Filters": " An array of structures that you can use to filter the results to those that match one or more sets of key-value pairs that you specify. ",
"ListProductSubscriptionsRequest$Filters": " An array of structures that you can use to filter the results to those that match one or more sets of key-value pairs that you specify. ",
"ListUserAssociationsRequest$Filters": " An array of structures that you can use to filter the results to those that match one or more sets of key-value pairs that you specify. "
}
},
"IdentityProvider": {
"base": " Details about an identity provider. ",
"refs": {
"AssociateUserRequest$IdentityProvider": " The identity provider of the user. ",
"DeregisterIdentityProviderRequest$IdentityProvider": " An object that specifies details for the identity provider. ",
"DisassociateUserRequest$IdentityProvider": " An object that specifies details for the identity provider. ",
"IdentityProviderSummary$IdentityProvider": " An object that specifies details for the identity provider. ",
"InstanceUserSummary$IdentityProvider": " An object that specifies details for the identity provider. ",
"ListProductSubscriptionsRequest$IdentityProvider": " An object that specifies details for the identity provider. ",
"ListUserAssociationsRequest$IdentityProvider": " An object that specifies details for the identity provider. ",
"ProductUserSummary$IdentityProvider": " An object that specifies details for the identity provider. ",
"RegisterIdentityProviderRequest$IdentityProvider":
" An object that specifies details for the identity provider. ",
"StartProductSubscriptionRequest$IdentityProvider": " An object that specifies details for the identity provider. ",
"StopProductSubscriptionRequest$IdentityProvider": " An object that specifies details for the identity provider. ",
"UpdateIdentityProviderSettingsRequest$IdentityProvider": null

```
    }
  },
  "IdentityProviderSummary": {
    "base": "<p>Describes an identity provider.</p>",
    "refs": {
      "DeregisterIdentityProviderResponse$IdentityProviderSummary": "<p>Metadata that describes the results of an identity provider operation.</p>",
      "IdentityProviderSummaryList$member": null,
      "RegisterIdentityProviderResponse$IdentityProviderSummary": "<p>Metadata that describes the results of an identity provider operation.</p>",
      "UpdateIdentityProviderSettingsResponse$IdentityProviderSummary": null

    }
  },
  "IdentityProviderSummaryList": {
    "base": null,
    "refs": {
      "ListIdentityProvidersResponse$IdentityProviderSummaries": "<p>Metadata that describes the list identity providers operation.</p>"
    }
  },
  "InstanceSummary": {
    "base": "<p>Describes an EC2 instance providing user-based subscriptions.</p>",
    "refs": {
      "InstanceSummaryList$member": null
    }
  },
  "InstanceSummaryList": {
    "base": null,
    "refs": {
      "ListInstancesResponse$InstanceSummaries": "<p>Metadata that describes the list instances operation.</p>"
    }
  },
  "InstanceUserSummary": {
    "base": "<p>Describes users of an EC2 instance providing user-based subscriptions.</p>",
    "refs": {
      "AssociateUserResponse$InstanceUserSummary": "<p>Metadata that describes the associate user operation.</p>",
      "DisassociateUserResponse$InstanceUserSummary": "<p>Metadata that describes the associate user operation.</p>",

      "InstanceUserSummaryList$member": null
    }
  },
  "InstanceUserSummaryList": {
    "base": null,
    "refs": {
      "ListUserAssociationsResponse$InstanceUserSummaries": "<p>Metadata that describes the list user association
```

operation. "
    }
  },
  "InternalServerException": {
    "base": " An exception occurred with the service. ",
    "refs": {
    }
  },
  "ListIdentityProvidersRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListIdentityProvidersResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListInstancesRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListInstancesResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListProductSubscriptionsRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListProductSubscriptionsResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListUserAssociationsRequest": {
    "base": null,
    "refs": {
     }
  },
  "ListUserAssociationsResponse": {
    "base": null,
    "refs": {
    }
  },

"ProductUserSummary": {
"base": " The summary of the user-based subscription products for a user. ",
"refs": {
"ProductUserSummaryList$member": null,
"StartProductSubscriptionResponse$ProductUserSummary": " Metadata that describes the start product subscription operation. ",
"StopProductSubscriptionResponse$ProductUserSummary": " Metadata that describes the start product subscription operation. "
}
},
"ProductUserSummaryList": {
"base": null,
"refs": {
"ListProductSubscriptionsResponse$ProductUserSummaries": " Metadata that describes the list product subscriptions operation. "
}
},
"RegisterIdentityProviderRequest": {
"base": null,
"refs": {
}
},
"RegisterIdentityProviderResponse": {
"base": null,
"refs": {
}
},
"ResourceNotFoundException":
{
"base": " The resource couldn't be found. ",
"refs": {
}
},
"SecurityGroup": {
"base": null,
"refs": {
"Settings$SecurityGroupId": " A security group ID that allows inbound TCP port 1688 communication between resources in your VPC and the VPC endpoint for activation servers. ",
"UpdateSettings$SecurityGroupId": " A security group ID that allows inbound TCP port 1688 communication between resources in your VPC and the VPC endpoints for activation servers. "
}
},
"ServiceQuotaExceededException": {
"base": " The request failed because a service quota is exceeded. ",
"refs": {
}
},
"Settings": {

"base": " The registered identity providers product related configuration settings such as the subnets to provision VPC endpoints, and the security group ID that is associated with the VPC endpoints. The security group should permit inbound TCP port 1688 communication
from resources in the VPC. ",
"refs": {
"IdentityProviderSummary$Settings": " An object that details the registered identity providers product related configuration settings such as the subnets to provision VPC endpoints. ",
"RegisterIdentityProviderRequest$Settings": " The registered identity providers product related configuration settings such as the subnets to provision VPC endpoints. "
}
},
"SettingsSubnetsList": {
"base": null,
"refs": {
"Settings$Subnets": " The subnets defined for the registered identity provider. "
}
},
"StartProductSubscriptionRequest": {
"base": null,
"refs": {
}
},
"StartProductSubscriptionResponse": {
"base": null,
"refs": {
}
},
"StopProductSubscriptionRequest": {
"base": null,
"refs": {
}
},
"StopProductSubscriptionResponse": {
"base": null,
"refs": {
}
},
"String":
{
"base": null,
"refs": {
"AccessDeniedException$message": null,
"ActiveDirectoryIdentityProvider$DirectoryId": " The directory ID for an Active Directory identity provider. ",
"AssociateUserRequest$Domain": " The domain name of the user. ",
"AssociateUserRequest$InstanceId": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"AssociateUserRequest$Username": " The user name from the identity provider for the user. ",

"ConflictException$message": null,
"DeregisterIdentityProviderRequest$Product": " The name of the user-based subscription product. ",
"DisassociateUserRequest$Domain": " The domain name of the user. ",
"DisassociateUserRequest$InstanceId": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"DisassociateUserRequest$Username": " The user name from the identity provider for the user. ",

"Filter$Attribute": " The name of an attribute to use as a filter. ",
"Filter$Operation": " The type of search (For example, eq, geq, leq) ",
"Filter$Value": " Value of the filter. ",
"IdentityProviderSummary$FailureMessage": " The failure message associated with an identity provider. ",
"IdentityProviderSummary$Product": " The name of the user-based subscription product. ",
"IdentityProviderSummary$Status": " The status of an identity provider. ",
"InstanceSummary$InstanceId": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"InstanceSummary$LastStatusCheckDate": " The date of the last status check. ",
"InstanceSummary$Status": " The status of an EC2 instance resource. ",
"InstanceSummary$StatusMessage": " The status message for an EC2 instance. ",
"InstanceUserSummary$AssociationDate": " The date a user was associated with an EC2 instance. ",
"InstanceUserSummary$DisassociationDate": " The date a user was disassociated from an EC2 instance. ",
"InstanceUserSummary$Domain": " The domain name of the user. ",
"InstanceUserSummary$InstanceId": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"InstanceUserSummary$Status": " The status of a user associated with an EC2 instance. ",
"InstanceUserSummary$StatusMessage": " The status message for users of an EC2 instance. ",
"InstanceUserSummary$Username": " The user name from the identity provider for the user. ",
"InternalServerException$message": null,
"ListIdentityProvidersRequest$NextToken": " Token for the next set of results. ",
"ListIdentityProvidersResponse$NextToken": " Token for the next set of results. ",
"ListInstancesRequest$NextToken": " Token for the next set of results. ",
"ListInstancesResponse$NextToken": " Token for the next set of results. ",
"ListProductSubscriptionsRequest$NextToken": " Token for the next set of results. ",
"ListProductSubscriptionsRequest$Product": " The name of the user-based subscription product. ",
"ListProductSubscriptionsResponse$NextToken": " Token for the next set of results. ",
"ListUserAssociationsRequest$InstanceId": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"ListUserAssociationsRequest$NextToken": " Token for the next set of results. ",
"ListUserAssociationsResponse$NextToken": " Token for the next set of results. ",
"ProductUserSummary$Domain": " The domain name of the user. ",
"ProductUserSummary$Product": " The name of the user-based subscription product. ",
"ProductUserSummary$Status": " The status of a product for a user. ",
"ProductUserSummary$StatusMessage": " The status message for a product for a user. ",
"ProductUserSummary$SubscriptionEndDate": " The end date of a subscription. ",

"ProductUserSummary$SubscriptionStartDate": " The start date of a subscription. ",
"ProductUserSummary$Username": " The user name from the identity provider of the user. ",
"RegisterIdentityProviderRequest$Product": " The name of the user-based subscription product. ",
"ResourceNotFoundException$message": null,
"ServiceQuotaExceededException$message": null,
"StartProductSubscriptionRequest$Domain": " The domain name of the user. ",
"StartProductSubscriptionRequest$Product": " The name of the user-based subscription product. ",
"StartProductSubscriptionRequest$Username": " The user name from the identity provider of the user. ",
"StopProductSubscriptionRequest$Domain": " The domain name of the user. ",
"StopProductSubscriptionRequest$Product": " The name of the user-based subscription product. ",
"StopProductSubscriptionRequest$Username": " The user name from the identity provider for the user. ",
"StringList$member": null,
"ThrottlingException$message": null,
"UpdateIdentityProviderSettingsRequest$Product": " The name of the user-based subscription product. ",
"ValidationException$message": null
}
},
"StringList": {
"base": null,
"refs": {
"InstanceSummary$Products": " A list of provided user-based subscription products. "
}
},
"Subnet": {
"base": null,
"refs": {
"SettingsSubnetsList$member": null,
"Subnets$member": null
}
},
"Subnets": {
"base": null,
"refs": {
"UpdateSettings$AddSubnets": " The ID of one or more subnets in which License Manager will create a VPC endpoint for products that require connectivity to activation servers. ",
"UpdateSettings$RemoveSubnets": " The ID of one or more subnets to remove. "
}
},
"ThrottlingException": {
"base": " The request was denied because of request throttling. Retry the request. ",
"refs": {
}
},
"UpdateIdentityProviderSettingsRequest": {

"base": null,
"refs": {
}
},
"UpdateIdentityProviderSettingsResponse": {
"base": null,
"refs": {
}
},
"UpdateSettings": {
"base": " Updates the registered identity providers product related configuration settings such as the subnets to provision VPC endpoints. ",
"refs": {
"UpdateIdentityProviderSettingsRequest$UpdateSettings": " Updates the registered identity providers product related configuration settings. You can update any combination of settings in a single operation such as the: <ul> Subnets which you want to add to provision VPC endpoints.   Subnets which you want to remove the VPC endpoints
from.   Security group ID which permits traffic to the VPC endpoints. "
}
},
"ValidationException": {
"base": " A parameter is not valid. ",
"refs": {
}
}
}
}
{
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
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```


AWS SDK for Go

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  "output":{"shape":"GetLicenseResponse"},
  "errors":[
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    {"shape":"InvalidParameterValueException"},
    {"shape":"AuthorizationException"},
     {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ]
},
"GetLicenseConfiguration":{
  "name":"GetLicenseConfiguration",
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    "requestUri":"/"
  },
  "input":{"shape":"GetLicenseConfigurationRequest"},
  "output":{"shape":"GetLicenseConfigurationResponse"},
  "errors":[
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    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
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  "output":{"shape":"GetLicenseConversionTaskResponse"},
  "errors":[
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     {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
```

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},
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  "name":"GetLicenseManagerReportGenerator",
  "http":{
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  "output":{"shape":"GetLicenseManagerReportGeneratorResponse"},
  "errors":[
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    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"AccessDeniedException"},
    {"shape":"ResourceNotFoundException"}
  ]
},
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  "http":{
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    "requestUri":"/"
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  "input":{"shape":"GetLicenseUsageRequest"},
  "output":{"shape":"GetLicenseUsageResponse"},
  "errors":[
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    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ]
},
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  "http":{
    "method":"POST",
    "requestUri":"/"
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  "input":{"shape":"GetServiceSettingsRequest"},
  "output":{"shape":"GetServiceSettingsResponse"},
  "errors":[
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{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
]
},
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"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListAssociationsForLicenseConfigurationRequest"},
"output":{"shape":"ListAssociationsForLicenseConfigurationResponse"},
"errors":[
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{"shape":"FilterLimitExceededException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
]
},
"ListDistributedGrants":{
"name":"ListDistributedGrants",
"http":{
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"requestUri":"/"
},
"input":{"shape":"ListDistributedGrantsRequest"},
"output":{"shape":"ListDistributedGrantsResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"ResourceLimitExceededException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
]
},
"ListFailuresForLicenseConfigurationOperations":{
"name":"ListFailuresForLicenseConfigurationOperations",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListFailuresForLicenseConfigurationOperationsRequest"},
"output":{"shape":"ListFailuresForLicenseConfigurationOperationsResponse"},
"errors":[

{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
]
},
"ListLicenseConfigurations":{
"name":"ListLicenseConfigurations",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListLicenseConfigurationsRequest"},
"output":{"shape":"ListLicenseConfigurationsResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"FilterLimitExceededException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
]
},
"ListLicenseConversionTasks":{
"name":"ListLicenseConversionTasks",
"http":{
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"requestUri":"/"
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"input":{"shape":"ListLicenseConversionTasksRequest"},
"output":{"shape":"ListLicenseConversionTasksResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
]
},
"ListLicenseManagerReportGenerators":{
"name":"ListLicenseManagerReportGenerators",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListLicenseManagerReportGeneratorsRequest"},
"output":{"shape":"ListLicenseManagerReportGeneratorsResponse"},

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  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"AccessDeniedException"},
    {"shape":"ResourceNotFoundException"}
  ]
},
"ListLicenseSpecificationsForResource":{
  "name":"ListLicenseSpecificationsForResource",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseSpecificationsForResourceRequest"},
  "output":{"shape":"ListLicenseSpecificationsForResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
     {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListLicenseVersions":{
  "name":"ListLicenseVersions",
  "http":{
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    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseVersionsRequest"},
  "output":{"shape":"ListLicenseVersionsResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ]
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"ListLicenses":{
  "name":"ListLicenses",
  "http":{
    "method":"POST",
    "requestUri":"/"
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  },
  "input":{"shape":"ListLicensesRequest"},
  "output":{"shape":"ListLicensesResponse"},
  "errors":[
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    {"shape":"InvalidParameterValueException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ]
},
"ListReceivedGrants":{
  "name":"ListReceivedGrants",
  "http":{
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    "requestUri":"/"
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  "output":{"shape":"ListReceivedGrantsResponse"},
  "errors":[
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    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListReceivedGrantsForOrganization":{
  "name":"ListReceivedGrantsForOrganization",
  "http":{
    "method":"POST",
    "requestUri":"/"
   },
  "input":{"shape":"ListReceivedGrantsForOrganizationRequest"},
  "output":{"shape":"ListReceivedGrantsForOrganizationResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
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    {"shape":"ServerInternalException"},
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    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
```

},
"ListReceivedLicenses":{
 "name":"ListReceivedLicenses",
 "http":{
  "method":"POST",
  "requestUri":"/"
 },
 "input":{"shape":"ListReceivedLicensesRequest"},
 "output":{"shape":"ListReceivedLicensesResponse"},
 "errors":[
  {"shape":"ValidationException"},
  {"shape":"InvalidParameterValueException"},
  {"shape":"ResourceLimitExceededException"},
  {"shape":"ServerInternalException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"}
 ]
},
"ListReceivedLicensesForOrganization":{
 "name":"ListReceivedLicensesForOrganization",
 "http":{
  "method":"POST",
  "requestUri":"/"
 },
 "input":{"shape":"ListReceivedLicensesForOrganizationRequest"},
 "output":{"shape":"ListReceivedLicensesForOrganizationResponse"},
 "errors":[
  {"shape":"ValidationException"},
  {"shape":"InvalidParameterValueException"},
  {"shape":"ResourceLimitExceededException"},
  {"shape":"ServerInternalException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"}
 ]
},
"ListResourceInventory":{
 "name":"ListResourceInventory",
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  "method":"POST",
  "requestUri":"/"
 },
 "input":{"shape":"ListResourceInventoryRequest"},
 "output":{"shape":"ListResourceInventoryResponse"},
 "errors":[
  {"shape":"InvalidParameterValueException"},
  {"shape":"ServerInternalException"},

{"shape":"FilterLimitExceededException"},
{"shape":"FailedDependencyException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
]
},
"ListTagsForResource":{
"name":"ListTagsForResource",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListTagsForResourceRequest"},
"output":{"shape":"ListTagsForResourceResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
]
},
"ListTokens":{
"name":"ListTokens",
"http":{
"method":"POST",

"requestUri":"/"
},
"input":{"shape":"ListTokensRequest"},
"output":{"shape":"ListTokensResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"},
{"shape":"ServerInternalException"}
]
},
"ListUsageForLicenseConfiguration":{
"name":"ListUsageForLicenseConfiguration",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListUsageForLicenseConfigurationRequest"},
"output":{"shape":"ListUsageForLicenseConfigurationResponse"},

"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"FilterLimitExceededException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
]
},
"RejectGrant":{
"name":"RejectGrant",
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"requestUri":"/"
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"input":{"shape":"RejectGrantRequest"},
"output":{"shape":"RejectGrantResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"},
{"shape":"ResourceLimitExceededException"},
{"shape":"ServerInternalException"}
]
},
"TagResource":{
"name":"TagResource",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"TagResourceRequest"},
"output":{"shape":"TagResourceResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
]
},
"UntagResource":{
"name":"UntagResource",
"http":{
"method":"POST",
"requestUri":"/"

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  },
  "input":{"shape":"UntagResourceRequest"},
  "output":{"shape":"UntagResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"UpdateLicenseConfiguration":{
  "name":"UpdateLicenseConfiguration",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"UpdateLicenseConfigurationRequest"},
  "output":{"shape":"UpdateLicenseConfigurationResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
     {"shape":"RateLimitExceededException"},
    {"shape":"ResourceLimitExceededException"}
  ]
},
"UpdateLicenseManagerReportGenerator":{
  "name":"UpdateLicenseManagerReportGenerator",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"UpdateLicenseManagerReportGeneratorRequest"},
  "output":{"shape":"UpdateLicenseManagerReportGeneratorResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"ResourceLimitExceededException"}
  ]
},
"UpdateLicenseSpecificationsForResource":{
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"http":{
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"requestUri":"/"

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"output":{"shape":"UpdateLicenseSpecificationsForResourceResponse"},
"errors":[
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{"shape":"InvalidResourceStateException"},
{"shape":"LicenseUsageException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
]
},
"UpdateServiceSettings":{
"name":"UpdateServiceSettings",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"UpdateServiceSettingsRequest"},
"output":{"shape":"UpdateServiceSettingsResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
]
}
},
"shapes":{
"AcceptGrantRequest":{
"type":"structure",
"required":["GrantArn"],
"members":{
"GrantArn":{"shape":"Arn"}
}
},
"AcceptGrantResponse":{
"type":"structure",
"members":{
"GrantArn":{"shape":"Arn"},
"Status":{"shape":"GrantStatus"},

"Version":{"shape":"String"}
}
},
"AccessDeniedException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"exception":true
},
"ActivationOverrideBehavior":{
"type":"string",
"enum":[
"DISTRIBUTED_GRANTS_ONLY",
"ALL_GRANTS_PERMITTED_BY_ISSUER"
]
},
"AllowedOperation":{
"type":"string",
"enum":[
"CreateGrant",
"CheckoutLicense",
"CheckoutBorrowLicense",
"CheckInLicense",
"ExtendConsumptionLicense",
"ListPurchasedLicenses",
"CreateToken"
]
},
"AllowedOperationList":{
"type":"list",
"member":{"shape":"AllowedOperation"},
"max":7,
"min":1
},
"Arn":{
"type":"string",
"max":2048,
"pattern":"^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
},
"ArnList":{
"type":"list",
"member":{"shape":"Arn"}
},
"AuthorizationException":{
"type":"structure",
"members":{

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    "Message":{"shape":"Message"}
  },
  "exception":true
},
"AutomatedDiscoveryInformation":{
  "type":"structure",
  "members":{
    "LastRunTime":{"shape":"DateTime"}
  }
},
"Boolean":{"type":"boolean"},
"BorrowConfiguration":{
  "type":"structure",
  "required":[
    "AllowEarlyCheckIn",
    "MaxTimeToLiveInMinutes"
  ],
  "members":{
    "AllowEarlyCheckIn":{"shape":"BoxBoolean"},
    "MaxTimeToLiveInMinutes":{"shape":"BoxInteger"}
   }
},
"BoxBoolean":{"type":"boolean"},
"BoxInteger":{"type":"integer"},
"BoxLong":{"type":"long"},
"CheckInLicenseRequest":{
  "type":"structure",
  "required":["LicenseConsumptionToken"],
  "members":{
    "LicenseConsumptionToken":{"shape":"String"},
    "Beneficiary":{"shape":"String"}
  }
},
"CheckInLicenseResponse":{
  "type":"structure",
  "members":{
  }
},
"CheckoutBorrowLicenseRequest":{
  "type":"structure",
  "required":[
    "LicenseArn",
    "Entitlements",
    "DigitalSignatureMethod",
    "ClientToken"
  ],
  "members":{
    "LicenseArn":{"shape":"Arn"},
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"Entitlements":{"shape":"EntitlementDataList"},
"DigitalSignatureMethod":{"shape":"DigitalSignatureMethod"},
"NodeId":{"shape":"String"},
"CheckoutMetadata":{"shape":"MetadataList"},
"ClientToken":{"shape":"ClientToken"}
}
},

"CheckoutBorrowLicenseResponse":{
"type":"structure",
"members":{
"LicenseArn":{"shape":"Arn"},
"LicenseConsumptionToken":{"shape":"String"},
"EntitlementsAllowed":{"shape":"EntitlementDataList"},
"NodeId":{"shape":"String"},
"SignedToken":{"shape":"SignedToken"},
"IssuedAt":{"shape":"ISO8601DateTime"},
"Expiration":{"shape":"ISO8601DateTime"},
"CheckoutMetadata":{"shape":"MetadataList"}
}
},
"CheckoutLicenseRequest":{
"type":"structure",
"required":[
"ProductSKU",
"CheckoutType",
"KeyFingerprint",
"Entitlements",
"ClientToken"
],
"members":{
"ProductSKU":{"shape":"String"},
"CheckoutType":{"shape":"CheckoutType"},
"KeyFingerprint":{"shape":"String"},
"Entitlements":{"shape":"EntitlementDataList"},
"ClientToken":{"shape":"ClientToken"},
"Beneficiary":{"shape":"String"},
"NodeId":{"shape":"String"}
}
},
"CheckoutLicenseResponse":{
"type":"structure",
"members":{
"CheckoutType":{"shape":"CheckoutType"},
"LicenseConsumptionToken":{"shape":"String"},
"EntitlementsAllowed":{"shape":"EntitlementDataList"},
"SignedToken":{"shape":"SignedToken"},
"NodeId":{"shape":"String"},

"IssuedAt":{"shape":"ISO8601DateTime"},
"Expiration":{"shape":"ISO8601DateTime"},
"LicenseArn":{"shape":"String"}
}
},
"CheckoutType":{
"type":"string",
"enum":[
"PROVISIONAL",
"PERPETUAL"
]
},
"ClientRequestToken":{
"type":"string",
"max":36,
"min":1
},
"ClientToken":{
"type":"string",
"max":2048,
"pattern":"\\S+"
},
"ConflictException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"exception":true
},
"ConsumedLicenseSummary":{
"type":"structure",
"members":{
"ResourceType":{"shape":"ResourceType"},
"ConsumedLicenses":{"shape":"BoxLong"}
}
},
"ConsumedLicenseSummaryList":{
"type":"list",
"member":{"shape":"ConsumedLicenseSummary"}
},
"ConsumptionConfiguration":{
"type":"structure",
"members":{
"RenewType":{"shape":"RenewType"},
"ProvisionalConfiguration":{"shape":"ProvisionalConfiguration"},
"BorrowConfiguration":{"shape":"BorrowConfiguration"}
}
},

"CreateGrantRequest":{
  "type":"structure",
  "required":[
    "ClientToken",
    "GrantName",
    "LicenseArn",
    "Principals",
    "HomeRegion",
    "AllowedOperations"
  ],
  "members":{
    "ClientToken":{"shape":"ClientToken"},
    "GrantName":{"shape":"String"},
    "LicenseArn":{"shape":"Arn"},
    "Principals":{"shape":"PrincipalArnList"},
    "HomeRegion":{"shape":"String"},
    "AllowedOperations":{"shape":"AllowedOperationList"}
   }
},
"CreateGrantResponse":{
  "type":"structure",
  "members":{
    "GrantArn":{"shape":"Arn"},
    "Status":{"shape":"GrantStatus"},
    "Version":{"shape":"String"}
  }
},
"CreateGrantVersionRequest":{
  "type":"structure",
  "required":[
    "ClientToken",
    "GrantArn"
  ],
  "members":{
    "ClientToken":{"shape":"ClientToken"},
    "GrantArn":{"shape":"Arn"},
    "GrantName":{"shape":"String"},
    "AllowedOperations":{"shape":"AllowedOperationList"},
    "Status":{"shape":"GrantStatus"},
    "StatusReason":{"shape":"StatusReasonMessage"},
    "SourceVersion":{"shape":"String"},
    "Options":{"shape":"Options"}
  }
},
"CreateGrantVersionResponse":{
  "type":"structure",
  "members":{
    "GrantArn":{"shape":"Arn"},

"Status":{"shape":"GrantStatus"},
"Version":{"shape":"String"}
}
},
"CreateLicenseConfigurationRequest":{
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"required":[
"Name",
"LicenseCountingType"
],
"members":{
"Name":{"shape":"String"},
"Description":{"shape":"String"},
"LicenseCountingType":{"shape":"LicenseCountingType"},
"LicenseCount":{"shape":"BoxLong"},
"LicenseCountHardLimit":{"shape":"BoxBoolean"},
"LicenseRules":{"shape":"StringList"},
"Tags":{"shape":"TagList"},
"DisassociateWhenNotFound":{"shape":"BoxBoolean"},
"ProductInformationList":{"shape":"ProductInformationList"}
}
},
"CreateLicenseConfigurationResponse":{
"type":"structure",
"members":{
"LicenseConfigurationArn":{"shape":"String"}
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},
"CreateLicenseConversionTaskForResourceRequest":{
"type":"structure",
"required":[
"ResourceArn",
"SourceLicenseContext",
"DestinationLicenseContext"
],
"members":{
"ResourceArn":{"shape":"Arn"},
"SourceLicenseContext":{"shape":"LicenseConversionContext"},
"DestinationLicenseContext":{"shape":"LicenseConversionContext"}
}
},
"CreateLicenseConversionTaskForResourceResponse":{
"type":"structure",
"members":{
"LicenseConversionTaskId":{"shape":"LicenseConversionTaskId"}
}
},
"CreateLicenseManagerReportGeneratorRequest":{

"type":"structure",
"required":[
"ReportGeneratorName",
"Type",
"ReportContext",
"ReportFrequency",
"ClientToken"
],
"members":{
"ReportGeneratorName":{"shape":"ReportGeneratorName"},
"Type":{"shape":"ReportTypeList"},
"ReportContext":{"shape":"ReportContext"},
"ReportFrequency":{"shape":"ReportFrequency"},
"ClientToken":{"shape":"ClientRequestToken"},
"Description":{"shape":"String"},
"Tags":{"shape":"TagList"}
}
},
"CreateLicenseManagerReportGeneratorResponse":{
"type":"structure",
"members":{
"LicenseManagerReportGeneratorArn":{"shape":"String"}
}
},
"CreateLicenseRequest":{
"type":"structure",
"required":[
"LicenseName",
"ProductName",
"ProductSKU",
"Issuer",
"HomeRegion",
"Validity",
"Entitlements",
"Beneficiary",
"ConsumptionConfiguration",
"ClientToken"
],
"members":{
"LicenseName":{"shape":"String"},
"ProductName":{"shape":"String"},
"ProductSKU":{"shape":"String"},
"Issuer":{"shape":"Issuer"},
"HomeRegion":{"shape":"String"},
"Validity":{"shape":"DatetimeRange"},
"Entitlements":{"shape":"EntitlementList"},
"Beneficiary":{"shape":"String"},
"ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},

"LicenseMetadata":{"shape":"MetadataList"},
"ClientToken":{"shape":"ClientToken"}

}
},
"CreateLicenseResponse":{
"type":"structure",
"members":{
"LicenseArn":{"shape":"Arn"},
"Status":{"shape":"LicenseStatus"},
"Version":{"shape":"String"}
}
},
"CreateLicenseVersionRequest":{
"type":"structure",
"required":[
"LicenseArn",
"LicenseName",
"ProductName",
"Issuer",
"HomeRegion",
"Validity",
"Entitlements",
"ConsumptionConfiguration",
"Status",
"ClientToken"
],
"members":{
"LicenseArn":{"shape":"Arn"},
"LicenseName":{"shape":"String"},
"ProductName":{"shape":"String"},
"Issuer":{"shape":"Issuer"},
"HomeRegion":{"shape":"String"},
"Validity":{"shape":"DatetimeRange"},
"LicenseMetadata":{"shape":"MetadataList"},
"Entitlements":{"shape":"EntitlementList"},
"ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},
"Status":{"shape":"LicenseStatus"},
"ClientToken":{"shape":"ClientToken"},
"SourceVersion":{"shape":"String"}
}
},
"CreateLicenseVersionResponse":{
"type":"structure",
"members":{
"LicenseArn":{"shape":"Arn"},
"Version":{"shape":"String"},
"Status":{"shape":"LicenseStatus"}

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    }
  },
  "CreateTokenRequest":{
    "type":"structure",
    "required":[
      "LicenseArn",
      "ClientToken"
    ],
    "members":{
      "LicenseArn":{"shape":"Arn"},
      "RoleArns":{"shape":"ArnList"},
      "ExpirationInDays":{"shape":"Integer"},
      "TokenProperties":{"shape":"MaxSize3StringList"},
      "ClientToken":{"shape":"ClientToken"}
    }
  },
  "CreateTokenResponse":{
    "type":"structure",
    "members":{
      "TokenId":{"shape":"String"},
      "TokenType":{"shape":"TokenType"},
      "Token":{"shape":"TokenString"}
    }
  },
  "DateTime":{"type":"timestamp"},
  "DatetimeRange":{

  "type":"structure",
    "required":["Begin"],
    "members":{
      "Begin":{"shape":"ISO8601DateTime"},
      "End":{"shape":"ISO8601DateTime"}
    }
  },
  "DeleteGrantRequest":{
    "type":"structure",
    "required":[
      "GrantArn",
      "Version"
    ],
    "members":{
      "GrantArn":{"shape":"Arn"},
      "StatusReason":{"shape":"StatusReasonMessage"},
      "Version":{"shape":"String"}
    }
  },
  "DeleteGrantResponse":{
    "type":"structure",
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  "members":{
    "GrantArn":{"shape":"Arn"},
    "Status":{"shape":"GrantStatus"},
    "Version":{"shape":"String"}
  }
},
"DeleteLicenseConfigurationRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{"shape":"String"}
  }
},
"DeleteLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
  }
},
"DeleteLicenseManagerReportGeneratorRequest":{
   "type":"structure",
  "required":["LicenseManagerReportGeneratorArn"],
  "members":{
    "LicenseManagerReportGeneratorArn":{"shape":"String"}
  }
},
"DeleteLicenseManagerReportGeneratorResponse":{
  "type":"structure",
  "members":{
  }
},
"DeleteLicenseRequest":{
  "type":"structure",
  "required":[
    "LicenseArn",
    "SourceVersion"
  ],
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "SourceVersion":{"shape":"String"}
  }
},
"DeleteLicenseResponse":{
  "type":"structure",
  "members":{
    "Status":{"shape":"LicenseDeletionStatus"},
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"DeleteTokenResponse":{
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  "members":{
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"DigitalSignatureMethod":{

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"Entitlement":{
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    "Unit"
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"ExtendLicenseConsumptionResponse":{
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"FailedDependencyException":{
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"Values":{"shape":"FilterValues"}
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"exception":true
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},
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  "member":{"shape":"Filter"}
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  "members":{
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  }
},
"GetAccessTokenResponse":{
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  "members":{
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  }
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  "members":{
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    "Version":{"shape":"String"}
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"GetGrantResponse":{
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  "members":{
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"GetLicenseConfigurationRequest":{
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  "required":["LicenseConfigurationArn"],
  "members":{
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},
"GetLicenseConfigurationResponse":{
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    "LicenseConfigurationArn":{"shape":"String"},
    "Name":{"shape":"String"},
    "Description":{"shape":"String"},
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    "LicenseRules":{"shape":"StringList"},
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"DisassociateWhenNotFound":{"shape":"BoxBoolean"}
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"DestinationLicenseContext":{"shape":"LicenseConversionContext"},
"StatusMessage":{"shape":"String"},
"Status":{"shape":"LicenseConversionTaskStatus"},
"StartTime":{"shape":"DateTime"},
"LicenseConversionTime":{"shape":"DateTime"},
"EndTime":{"shape":"DateTime"}
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"GetLicenseManagerReportGeneratorResponse":{
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"GetLicenseRequest":{
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  "members":{
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    "Version":{"shape":"String"}
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"GetLicenseResponse":{
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  "members":{
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"GetLicenseUsageRequest":{
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"GetLicenseUsageResponse":{
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"GetServiceSettingsResponse":{
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    "OrganizationConfiguration":{"shape":"OrganizationConfiguration"},
    "EnableCrossAccountsDiscovery":{"shape":"BoxBoolean"},
    "LicenseManagerResourceShareArn":{"shape":"String"}
  }
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"Grant":{
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    "GrantName",
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    "LicenseArn",
    "GranteePrincipalArn",
    "HomeRegion",
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"GrantStatus",
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"GrantName":{"shape":"String"},
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"LicenseArn":{"shape":"Arn"},
"GranteePrincipalArn":{"shape":"Arn"},
"HomeRegion":{"shape":"String"},
"GrantStatus":{"shape":"GrantStatus"},
"StatusReason":{"shape":"StatusReasonMessage"},
"Version":{"shape":"String"},
"GrantedOperations":{"shape":"AllowedOperationList"},
"Options":{"shape":"Options"}
}
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"GrantList":{
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"GrantStatus":{
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"PENDING_ACCEPT",
"REJECTED",
"ACTIVE",
"FAILED_WORKFLOW",
"DELETED",
"PENDING_DELETE",
"DISABLED",
"WORKFLOW_COMPLETED"
]
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"ProductName":{"shape":"String"},
"ProductSKU":{"shape":"String"},
"Issuer":{"shape":"IssuerDetails"},
"HomeRegion":{"shape":"String"},
"Status":{"shape":"LicenseStatus"},
"Validity":{"shape":"DatetimeRange"},
"Beneficiary":{"shape":"String"},

"Entitlements":{"shape":"EntitlementList"},
"ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},

"LicenseMetadata":{"shape":"MetadataList"},
"CreateTime":{"shape":"ISO8601DateTime"},
"Version":{"shape":"String"},
"ReceivedMetadata":{"shape":"ReceivedMetadata"}
}
},
"GrantedLicenseList":{
"type":"list",
"member":{"shape":"GrantedLicense"}
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"members":{
"Message":{"shape":"Message"}
},
"exception":true
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"Condition"
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"Condition":{"shape":"InventoryFilterCondition"},
"Value":{"shape":"String"}
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"NOT_EQUALS",
"BEGINS_WITH",
"CONTAINS"
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"InventoryFilterList":{
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"SignKey":{"shape":"String"}
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"IssuerDetails":{
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"Name":{"shape":"String"},
"SignKey":{"shape":"String"},
"KeyFingerprint":{"shape":"String"}
}
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"License":{
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"LicenseName":{"shape":"String"},

"ProductName":{"shape":"String"},
"ProductSKU":{"shape":"String"},
"Issuer":{"shape":"IssuerDetails"},
"HomeRegion":{"shape":"String"},
"Status":{"shape":"LicenseStatus"},
"Validity":{"shape":"DatetimeRange"},
"Beneficiary":{"shape":"String"},
"Entitlements":{"shape":"EntitlementList"},
"ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},
"LicenseMetadata":{"shape":"MetadataList"},
"CreateTime":{"shape":"ISO8601DateTime"},
"Version":{"shape":"String"}
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    "LicenseConfigurationArn":{"shape":"String"},
    "Name":{"shape":"String"},
    "Description":{"shape":"String"},
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    "LicenseRules":{"shape":"StringList"},
    "LicenseCount":{"shape":"BoxLong"},
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    "ConsumedLicenses":{"shape":"BoxLong"},
    "Status":{"shape":"String"},
    "OwnerAccountId":{"shape":"String"},
    "ConsumedLicenseSummaryList":{"shape":"ConsumedLicenseSummaryList"},
    "ManagedResourceSummaryList":{"shape":"ManagedResourceSummaryList"},
    "ProductInformationList":{"shape":"ProductInformationList"},
    "AutomatedDiscoveryInformation":{"shape":"AutomatedDiscoveryInformation"}
  }
},
"LicenseConfigurationAssociation":{
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    "ResourceType":{"shape":"ResourceType"},
    "ResourceOwnerId":{"shape":"String"},
    "AssociationTime":{"shape":"DateTime"},
    "AmiAssociationScope":{"shape":"String"}
  }
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  "member":{"shape":"LicenseConfigurationAssociation"}
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    "DISABLED"
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"LicenseConfigurationUsage":{
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    "ResourceType":{"shape":"ResourceType"},
    "ResourceStatus":{"shape":"String"},

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    "ResourceOwnerId":{"shape":"String"},
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    "ConsumedLicenses":{"shape":"BoxLong"}
  }
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"LicenseConfigurationUsageList":{
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"LicenseConfigurations":{
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  "member":{"shape":"LicenseConfiguration"}
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"LicenseConversionContext":{
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"LicenseConversionTask":{
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    "DestinationLicenseContext":{"shape":"LicenseConversionContext"},
    "Status":{"shape":"LicenseConversionTaskStatus"},
    "StatusMessage":{"shape":"String"},
    "StartTime":{"shape":"DateTime"},
    "LicenseConversionTime":{"shape":"DateTime"},
    "EndTime":{"shape":"DateTime"}
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"LicenseConversionTaskId":{
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"LicenseConversionTaskStatus":{
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    "SUCCEEDED",
    "FAILED"
  ]
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  "enum":[
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    "Instance",
    "Core",
    "Socket"
  ]
},
"LicenseDeletionStatus":{
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    "DELETED"
  ]
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"LicenseList":{
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"LicenseOperationFailure":{
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    "ResourceType":{"shape":"ResourceType"},
    "ErrorMessage":{"shape":"String"},
    "FailureTime":{"shape":"DateTime"},
    "OperationName":{"shape":"String"},
    "ResourceOwnerId":{"shape":"String"},
    "OperationRequestedBy":{"shape":"String"},
    "MetadataList":{"shape":"MetadataList"}
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},
"LicenseOperationFailureList":{
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  "member":{"shape":"LicenseOperationFailure"}
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"LicenseSpecification":{
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  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{"shape":"String"},
    "AmiAssociationScope":{"shape":"String"}
  }
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    "DEACTIVATED",
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    "EXPIRED",
    "PENDING_DELETE",
    "DELETED"
  ]
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"LicenseUsageException":{
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  "members":{
    "Message":{"shape":"Message"}
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  "exception":true
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"ListAssociationsForLicenseConfigurationRequest":{
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  "required":["LicenseConfigurationArn"],
  "members":{
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    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"}
  }
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"ListAssociationsForLicenseConfigurationResponse":{
  "type":"structure",
   "members":{
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    "NextToken":{"shape":"String"}
  }
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"ListDistributedGrantsRequest":{
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  "members":{
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"MaxResults":{"shape":"MaxSize100"}
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"ListDistributedGrantsResponse":{
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"NextToken":{"shape":"String"}
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"ListFailuresForLicenseConfigurationOperationsRequest":{
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"NextToken":{"shape":"String"}
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"ListFailuresForLicenseConfigurationOperationsResponse":{
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"NextToken":{"shape":"String"}
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"ListLicenseConfigurationsRequest":{
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"NextToken":{"shape":"String"},
"Filters":{"shape":"Filters"}
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"NextToken":{"shape":"String"}
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"ListLicenseConversionTasksRequest":{
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"ListLicenseConversionTasksResponse":{
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"NextToken":{"shape":"String"}
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"ListLicenseManagerReportGeneratorsRequest":{
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"NextToken":{"shape":"String"},
"MaxResults":{"shape":"MaxSize100"}
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"ListLicenseManagerReportGeneratorsResponse":{
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"members":{
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"NextToken":{"shape":"String"}
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"ListLicenseSpecificationsForResourceRequest":{
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"MaxResults":{"shape":"BoxInteger"},
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"ListLicenseSpecificationsForResourceResponse":{
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"ListLicenseVersionsRequest":{
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"NextToken":{"shape":"String"}
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"ListLicensesRequest":{
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"ListLicensesResponse":{
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"ListReceivedGrantsForOrganizationRequest":{
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"MaxResults":{"shape":"MaxSize100"}
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},
"ListReceivedGrantsRequest":{
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"Filters":{"shape":"FilterList"},
"NextToken":{"shape":"String"},
"MaxResults":{"shape":"MaxSize100"}
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"ListReceivedLicensesForOrganizationRequest":{
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"members":{
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"ListReceivedLicensesForOrganizationResponse":{
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"members":{
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"Filters":{"shape":"FilterList"},
"NextToken":{"shape":"String"},
"MaxResults":{"shape":"MaxSize100"}
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"ListReceivedLicensesResponse":{
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"NextToken":{"shape":"String"}
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"ListResourceInventoryRequest":{
"type":"structure",
"members":{
"MaxResults":{"shape":"BoxInteger"},

"NextToken":{"shape":"String"},
"Filters":{"shape":"InventoryFilterList"}
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},
"ListResourceInventoryResponse":{
"type":"structure",
"members":{
"ResourceInventoryList":{"shape":"ResourceInventoryList"},
"NextToken":{"shape":"String"}
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"ListTagsForResourceRequest":{
"type":"structure",
"required":["ResourceArn"],
"members":{
"ResourceArn":{"shape":"String"}
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},
"ListTagsForResourceResponse":{
"type":"structure",
"members":{
"Tags":{"shape":"TagList"}
}
},
"ListTokensRequest":{
"type":"structure",
"members":{
"TokenIds":{"shape":"StringList"},
"Filters":{"shape":"FilterList"},
"NextToken":{"shape":"String"},
"MaxResults":{"shape":"MaxSize100"}
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"ListTokensResponse":{
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"members":{
"Tokens":{"shape":"TokenList"},
"NextToken":{"shape":"String"}
}
},
"ListUsageForLicenseConfigurationRequest":{
"type":"structure",
"required":["LicenseConfigurationArn"],
"members":{
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"MaxResults":{"shape":"BoxInteger"},
"NextToken":{"shape":"String"},
"Filters":{"shape":"Filters"}

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  }
},
"ListUsageForLicenseConfigurationResponse":{
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  "members":{
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    "NextToken":{"shape":"String"}
  }
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"ManagedResourceSummary":{
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  "members":{
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    "AssociationCount":{"shape":"BoxLong"}
  }
},
"ManagedResourceSummaryList":{
  "type":"list",
  "member":{"shape":"ManagedResourceSummary"}
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  "min":1
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"MaxSize3StringList":{
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  "member":{"shape":"String"},
  "max":3
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"Message":{"type":"string"},
"Metadata":{
  "type":"structure",
   "members":{
    "Name":{"shape":"String"},
    "Value":{"shape":"String"}
  }
},
"MetadataList":{
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  "member":{"shape":"Metadata"}
},
"NoEntitlementsAllowedException":{
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  "members":{
    "Message":{"shape":"Message"}
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  },
  "exception":true
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"Options":{
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  "members":{
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"OrganizationConfiguration":{
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  "required":["EnableIntegration"],
  "members":{
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  }
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"PrincipalArnList":{
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  "member":{"shape":"Arn"},
  "max":1,
  "min":1
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"ProductInformation":{
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  "required":[
    "ResourceType",
    "ProductInformationFilterList"
  ],
  "members":{
    "ResourceType":{"shape":"String"},
     "ProductInformationFilterList":{"shape":"ProductInformationFilterList"}
  }
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"ProductInformationFilter":{
  "type":"structure",
  "required":[
    "ProductInformationFilterName",
    "ProductInformationFilterComparator"
  ],
  "members":{
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    "ProductInformationFilterValue":{"shape":"StringList"},
    "ProductInformationFilterComparator":{"shape":"String"}
  }
},
"ProductInformationFilterList":{
  "type":"list",
  "member":{"shape":"ProductInformationFilter"}
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"ProductInformationList":{
  "type":"list",
  "member":{"shape":"ProductInformation"}
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"ProvisionalConfiguration":{
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  "required":["MaxTimeToLiveInMinutes"],
  "members":{
    "MaxTimeToLiveInMinutes":{"shape":"BoxInteger"}
  }
},
"RateLimitExceededException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
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  "exception":true
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"ReceivedMetadata":{
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  "members":{
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    "ReceivedStatusReason":{"shape":"StatusReasonMessage"},
    "AllowedOperations":{"shape":"AllowedOperationList"}
  }
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"ReceivedStatus":{
  "type":"string",
  "enum":[
    "PENDING_WORKFLOW",
    "PENDING_ACCEPT",
    "REJECTED",
    "ACTIVE",
    "FAILED_WORKFLOW",
    "DELETED",
    "DISABLED",
    "WORKFLOW_COMPLETED"
  ]
},
"RedirectException":{
  "type":"structure",
  "members":{
    "Location":{"shape":"Location"},
    "Message":{"shape":"Message"}
  },
  "exception":true
},
```

"RejectGrantRequest":{
  "type":"structure",
  "required":["GrantArn"],
  "members":{
    "GrantArn":{"shape":"Arn"}
  }
},
"RejectGrantResponse":{
  "type":"structure",
  "members":{
     "GrantArn":{"shape":"Arn"},
    "Status":{"shape":"GrantStatus"},
    "Version":{"shape":"String"}
  }
},
"RenewType":{
  "type":"string",
  "enum":[
    "None",
    "Weekly",
    "Monthly"
  ]
},
"ReportContext":{
  "type":"structure",
  "required":["licenseConfigurationArns"],
  "members":{
    "licenseConfigurationArns":{"shape":"ArnList"}
  }
},
"ReportFrequency":{
  "type":"structure",
  "members":{
    "value":{"shape":"Integer"},
    "period":{"shape":"ReportFrequencyType"}
  }
},
"ReportFrequencyType":{
  "type":"string",
  "enum":[
    "DAY",
    "WEEK",
    "MONTH"
  ]
},
"ReportGenerator":{
  "type":"structure",
  "members":{

"ReportGeneratorName":{"shape":"String"},
"ReportType":{"shape":"ReportTypeList"},
"ReportContext":{"shape":"ReportContext"},
"ReportFrequency":{"shape":"ReportFrequency"},
"LicenseManagerReportGeneratorArn":{"shape":"String"},
"LastRunStatus":{"shape":"String"},
"LastRunFailureReason":{"shape":"String"},
"LastReportGenerationTime":{"shape":"String"},
"ReportCreatorAccount":{"shape":"String"},
"Description":{"shape":"String"},
"S3Location":{"shape":"S3Location"},
"CreateTime":{"shape":"String"},
"Tags":{"shape":"TagList"}
}
},
"ReportGeneratorList":{
"type":"list",
"member":{"shape":"ReportGenerator"}
},
"ReportGeneratorName":{
"type":"string",
"max":100,
"min":1
},
"ReportType":{
"type":"string",
"enum":[
"LicenseConfigurationSummaryReport",
"LicenseConfigurationUsageReport"
]
},
"ReportTypeList":{
"type":"list",
"member":{"shape":"ReportType"}
},
"ResourceInventory":{
"type":"structure",
"members":{
"ResourceId":{"shape":"String"},
"ResourceType":{"shape":"ResourceType"},
"ResourceArn":{"shape":"String"},
"Platform":{"shape":"String"},
"PlatformVersion":{"shape":"String"},
"ResourceOwningAccountId":{"shape":"String"}
}
},
"ResourceInventoryList":{
"type":"list",

"member":{"shape":"ResourceInventory"}
},
"ResourceLimitExceededException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"exception":true
},
"ResourceNotFoundException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"exception":true
},
"ResourceType":{
"type":"string",
"enum":[
"EC2_INSTANCE",
"EC2_HOST",
"EC2_AMI",
"RDS",
"SYSTEMS_MANAGER_MANAGED_INSTANCE"
]
},
"S3Location":{
"type":"structure",
"members":{
"bucket":{"shape":"String"},
"keyPrefix":{"shape":"String"}

}
},
"ServerInternalException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"exception":true,
"fault":true
},
"SignedToken":{
"type":"string",
"min":4096
},
"StatusReasonMessage":{
"type":"string",

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  "max":400,
  "pattern":"[\\s\\S]+"
},
"String":{"type":"string"},
"StringList":{
  "type":"list",
  "member":{"shape":"String"}
},
"Tag":{
  "type":"structure",
  "members":{
    "Key":{"shape":"String"},
    "Value":{"shape":"String"}
  }
},
"TagKeyList":{
  "type":"list",
  "member":{"shape":"String"}
},
"TagList":{
  "type":"list",
  "member":{"shape":"Tag"}
},
"TagResourceRequest":{
  "type":"structure",
  "required":[
    "ResourceArn",
    "Tags"
  ],
  "members":{
    "ResourceArn":{"shape":"String"},
    "Tags":{"shape":"TagList"}
  }
},
"TagResourceResponse":{
   "type":"structure",
  "members":{
  }
},
"TokenData":{
  "type":"structure",
  "members":{
    "TokenId":{"shape":"String"},
    "TokenType":{"shape":"String"},
    "LicenseArn":{"shape":"String"},
    "ExpirationTime":{"shape":"ISO8601DateTime"},
    "TokenProperties":{"shape":"MaxSize3StringList"},
    "RoleArns":{"shape":"ArnList"},
```

```
    "Status":{"shape":"String"}
  }
},
"TokenList":{
  "type":"list",
  "member":{"shape":"TokenData"}
},
"TokenString":{
  "type":"string",
  "max":4096,
  "pattern":"\\S+"
},
"TokenType":{
  "type":"string",
  "enum":["REFRESH_TOKEN"]
},
"UnsupportedDigitalSignatureMethodException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"UntagResourceRequest":{
  "type":"structure",
  "required":[
    "ResourceArn",
    "TagKeys"
   ],
  "members":{
    "ResourceArn":{"shape":"String"},
    "TagKeys":{"shape":"TagKeyList"}
  }
},
"UntagResourceResponse":{
  "type":"structure",
  "members":{
  }
},
"UpdateLicenseConfigurationRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{"shape":"String"},
    "LicenseConfigurationStatus":{"shape":"LicenseConfigurationStatus"},
    "LicenseRules":{"shape":"StringList"},
    "LicenseCount":{"shape":"BoxLong"},
    "LicenseCountHardLimit":{"shape":"BoxBoolean"},
```

"Name":{"shape":"String"},
"Description":{"shape":"String"},
"ProductInformationList":{"shape":"ProductInformationList"},
"DisassociateWhenNotFound":{"shape":"BoxBoolean"}
}
},
"UpdateLicenseConfigurationResponse":{
"type":"structure",
"members":{
}
},
"UpdateLicenseManagerReportGeneratorRequest":{
"type":"structure",
"required":[
"LicenseManagerReportGeneratorArn",
"ReportGeneratorName",
"Type",
"ReportContext",
"ReportFrequency",
"ClientToken"
],
"members":{
"LicenseManagerReportGeneratorArn":{"shape":"String"},
"ReportGeneratorName":{"shape":"ReportGeneratorName"},
"Type":{"shape":"ReportTypeList"},
"ReportContext":{"shape":"ReportContext"},
"ReportFrequency":{"shape":"ReportFrequency"},
"ClientToken":{"shape":"ClientRequestToken"},
"Description":{"shape":"String"}
}
},
"UpdateLicenseManagerReportGeneratorResponse":{
"type":"structure",
"members":{
}
},
"UpdateLicenseSpecificationsForResourceRequest":{
"type":"structure",
"required":["ResourceArn"],
"members":{
"ResourceArn":{"shape":"String"},
"AddLicenseSpecifications":{"shape":"LicenseSpecifications"},
"RemoveLicenseSpecifications":{"shape":"LicenseSpecifications"}
}
},
"UpdateLicenseSpecificationsForResourceResponse":{
"type":"structure",
"members":{

```
      }
    },
    "UpdateServiceSettingsRequest":{
      "type":"structure",
      "members":{
        "S3BucketArn":{"shape":"String"},
        "SnsTopicArn":{"shape":"String"},
        "OrganizationConfiguration":{"shape":"OrganizationConfiguration"},
        "EnableCrossAccountsDiscovery":{"shape":"BoxBoolean"}
      }
    },
    "UpdateServiceSettingsResponse":{
      "type":"structure",
      "members":{
      }
    },
    "UsageOperation":{
      "type":"string",
      "max":50
    },
    "ValidationException":{
      "type":"structure",
      "members":{
        "Message":{"shape":"Message"}
      },
      "exception":true
    }
  }
}
{
  "version":"2.0",
  "metadata":{
    "apiVersion":"2018-05-10",
    "endpointPrefix":"license-manager-linux-subscriptions",
    "jsonVersion":"1.1",
    "protocol":"rest-json",
    "serviceFullName":"AWS License Manager Linux Subscriptions",
    "serviceId":"License Manager Linux Subscriptions",
    "signatureVersion":"v4",
    "signingName":"license-manager-linux-subscriptions",
    "uid":"license-manager-linux-subscriptions-2018-05-10"
  },
  "operations":{
    "GetServiceSettings":{
      "name":"GetServiceSettings",
      "http":{
        "method":"POST",
        "requestUri":"/subscription/GetServiceSettings",
```

"responseCode":200
},
"input":{"shape":"GetServiceSettingsRequest"},
"output":{"shape":"GetServiceSettingsResponse"},
"errors":[
{"shape":"InternalServerException"},
{"shape":"ThrottlingException"},
{"shape":"ValidationException"}
],
"idempotent":true
},
"ListLinuxSubscriptionInstances":{
"name":"ListLinuxSubscriptionInstances",
"http":{
"method":"POST",
"requestUri":"/subscription/ListLinuxSubscriptionInstances",
"responseCode":200
},
"input":{"shape":"ListLinuxSubscriptionInstancesRequest"},
"output":{"shape":"ListLinuxSubscriptionInstancesResponse"},
"errors":[
{"shape":"InternalServerException"},
{"shape":"ThrottlingException"},
{"shape":"ValidationException"}
],
"idempotent":true
},
"ListLinuxSubscriptions":{
"name":"ListLinuxSubscriptions",
"http":{
"method":"POST",
"requestUri":"/subscription/ListLinuxSubscriptions",
"responseCode":200
},
"input":{"shape":"ListLinuxSubscriptionsRequest"},
"output":{"shape":"ListLinuxSubscriptionsResponse"},
"errors":[
{"shape":"InternalServerException"},
{"shape":"ThrottlingException"},
{"shape":"ValidationException"}
],
"idempotent":true

},
"UpdateServiceSettings":{
"name":"UpdateServiceSettings",
"http":{
"method":"POST",

```
      "requestUri":"/subscription/UpdateServiceSettings",
      "responseCode":200
    },
    "input":{"shape":"UpdateServiceSettingsRequest"},
    "output":{"shape":"UpdateServiceSettingsResponse"},
    "errors":[
      {"shape":"InternalServerException"},
      {"shape":"ThrottlingException"},
      {"shape":"ValidationException"}
    ],
    "idempotent":true
  }
},
"shapes":{
  "Boolean":{
    "type":"boolean",
    "box":true
  },
  "BoxInteger":{
    "type":"integer",
    "box":true
  },
  "BoxLong":{
    "type":"long",
    "box":true
  },
  "Filter":{
    "type":"structure",
    "members":{
      "Name":{"shape":"String"},
      "Operator":{"shape":"Operator"},
      "Values":{"shape":"StringList"}
    }
  },
  "FilterList":{
    "type":"list",
    "member":{"shape":"Filter"}
  },
  "GetServiceSettingsRequest":{
     "type":"structure",
    "members":{
    }
  },
  "GetServiceSettingsResponse":{
    "type":"structure",
    "members":{
      "HomeRegions":{"shape":"StringList"},
      "LinuxSubscriptionsDiscovery":{"shape":"LinuxSubscriptionsDiscovery"},
```

"LinuxSubscriptionsDiscoverySettings":{"shape":"LinuxSubscriptionsDiscoverySettings"},
"Status":{"shape":"Status"},
"StatusMessage":{"shape":"StringMap"}
}
},
"Instance":{
"type":"structure",
"members":{
"AccountID":{"shape":"String"},
"AmiId":{"shape":"String"},
"InstanceID":{"shape":"String"},
"InstanceType":{"shape":"String"},
"LastUpdatedTime":{"shape":"String"},
"ProductCode":{"shape":"ProductCodeList"},
"Region":{"shape":"String"},
"Status":{"shape":"String"},
"SubscriptionName":{"shape":"String"},
"UsageOperation":{"shape":"String"}
}
},
"InstanceList":{

"type":"list",
"member":{"shape":"Instance"}
},
"InternalServerException":{
"type":"structure",
"members":{
"message":{"shape":"String"}
},
"exception":true,
"fault":true
},
"LinuxSubscriptionsDiscovery":{
"type":"string",
"enum":[
"Enabled",
"Disabled"
]
},
"LinuxSubscriptionsDiscoverySettings":{
"type":"structure",
"required":[
"OrganizationIntegration",
"SourceRegions"
],
"members":{
"OrganizationIntegration":{"shape":"OrganizationIntegration"},

"SourceRegions":{"shape":"StringList"}
}
},
"ListLinuxSubscriptionInstancesRequest":{
"type":"structure",
"members":{
"Filters":{"shape":"FilterList"},
"MaxResults":{"shape":"BoxInteger"},
"NextToken":{"shape":"ListLinuxSubscriptionInstancesRequestNextTokenString"}
}
},
"ListLinuxSubscriptionInstancesRequestNextTokenString":{
"type":"string",
"max":16384,
"min":1
},
"ListLinuxSubscriptionInstancesResponse":{
"type":"structure",
"members":{
"Instances":{"shape":"InstanceList"},
"NextToken":{"shape":"String"}
}
},
"ListLinuxSubscriptionsRequest":{
"type":"structure",
"members":{
"Filters":{"shape":"FilterList"},
"MaxResults":{"shape":"BoxInteger"},
"NextToken":{"shape":"ListLinuxSubscriptionsRequestNextTokenString"}
}
},
"ListLinuxSubscriptionsRequestNextTokenString":{
"type":"string",
"max":16384,
"min":1
},
"ListLinuxSubscriptionsResponse":{
"type":"structure",
"members":{
"NextToken":{"shape":"String"},
"Subscriptions":{"shape":"SubscriptionList"}
}
},
"Operator":{
"type":"string",
"enum":[
"Equal",
"NotEqual",

"Contains"
],
"max":20,
"min":1
},
"OrganizationIntegration":{
"type":"string",
"enum":[
"Enabled",
"Disabled"
]
},
"ProductCodeList":{
"type":"list",
"member":{"shape":"String"}
},
"Status":{
"type":"string",
"enum":[
"InProgress",
"Completed",
"Successful",
"Failed"
]
},
"String":{"type":"string"},
"StringList":{
"type":"list",
"member":{"shape":"StringListMemberString"},
"max":100,
"min":1
},
"StringListMemberString":{
"type":"string",
"max":100,
"min":1
},
"StringMap":{
"type":"map",
"key":{"shape":"String"},
"value":{"shape":"String"}
},
"Subscription":{
"type":"structure",
"members":{
"InstanceCount":{"shape":"BoxLong"},
"Name":{"shape":"String"},
"Type":{"shape":"String"}

```
    }
  },
  "SubscriptionList":{
    "type":"list",
    "member":{"shape":"Subscription"}
  },
  "ThrottlingException":{
     "type":"structure",
    "members":{
      "message":{"shape":"String"}
    },
    "exception":true
  },
  "UpdateServiceSettingsRequest":{
    "type":"structure",
    "required":[
      "LinuxSubscriptionsDiscovery",
      "LinuxSubscriptionsDiscoverySettings"
    ],
    "members":{
      "AllowUpdate":{"shape":"Boolean"},
      "LinuxSubscriptionsDiscovery":{"shape":"LinuxSubscriptionsDiscovery"},
      "LinuxSubscriptionsDiscoverySettings":{"shape":"LinuxSubscriptionsDiscoverySettings"}
    }
  },
  "UpdateServiceSettingsResponse":{
    "type":"structure",
    "members":{
      "HomeRegions":{"shape":"StringList"},
      "LinuxSubscriptionsDiscovery":{"shape":"LinuxSubscriptionsDiscovery"},
      "LinuxSubscriptionsDiscoverySettings":{"shape":"LinuxSubscriptionsDiscoverySettings"},
      "Status":{"shape":"Status"},
      "StatusMessage":{"shape":"StringMap"}
    }
  },
  "ValidationException":{
    "type":"structure",
     "members":{
      "message":{"shape":"String"}
    },
    "exception":true
  }
 }
}
{
 "version": "2.0",
 "service": "<p>License Manager makes it easier to manage licenses from software vendors across multiple Amazon Web Services accounts and on-premises servers.</p>",
```

"operations": {
"AcceptGrant": " Accepts the specified grant. ",
"CheckInLicense": " Checks in the specified license. Check in a license when it is no longer in use. ",
"CheckoutBorrowLicense": " Checks out the specified license for offline use. ",
"CheckoutLicense": " Checks out the specified license. <note> If the account that created the license is the same that is performing the check out, you must specify the account as the beneficiary. </note>",
"CreateGrant": " Creates a grant for the specified license. A grant shares the use of license entitlements with a specific Amazon Web Services account, an organization, or an organizational unit (OU). For more information, see Granted licenses in License Manager in the License Manager User Guide. ",
"CreateGrantVersion": " Creates a new version of the specified grant. For more information, see Granted licenses in License Manager in the License Manager User Guide. ",
"CreateLicense": " Creates a license. ",
"CreateLicenseConfiguration": " Creates a license configuration. A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, Dedicated Instance, Dedicated Host, or all of these), license affinity to host (how long a license must be associated with a host), and the number of licenses purchased and used. ",
"CreateLicenseConversionTaskForResource":
" Creates a new license conversion task. ",
"CreateLicenseManagerReportGenerator": " Creates a report generator. ",
"CreateLicenseVersion": " Creates a new version of the specified license. ",
"CreateToken": " Creates a long-lived token. A refresh token is a JWT token used to get an access token. With an access token, you can call AssumeRoleWithWebIdentity to get role credentials that you can use to call License Manager to manage the specified license. ",
"DeleteGrant": " Deletes the specified grant. ",
"DeleteLicense": " Deletes the specified license. ",
"DeleteLicenseConfiguration": " Deletes the specified license configuration. You cannot delete a license configuration that is in use. ",
"DeleteLicenseManagerReportGenerator": " Deletes the specified report generator. This action deletes the report generator, which stops it from generating future reports. The action cannot be reversed. It has no effect on the previous reports from this generator. ",
"DeleteToken": " Deletes the specified token. Must be called in the license home Region. ",
"ExtendLicenseConsumption": " Extends the expiration date for license consumption. ",
"GetAccessToken": " Gets a temporary access token to use with AssumeRoleWithWebIdentity. Access tokens are valid for one hour. ",
"GetGrant": " Gets detailed information about the specified grant. ",
"GetLicense": " Gets detailed information about the specified license. ",
"GetLicenseConfiguration": " Gets detailed information about the specified license configuration. ",
"GetLicenseConversionTask": " Gets information about the specified license type conversion task. ",
"GetLicenseManagerReportGenerator": " Gets information about the specified report generator. ",
"GetLicenseUsage": " Gets detailed information about the usage of the specified license. ",
"GetServiceSettings":
" Gets the License Manager settings for the current Region. ",
"ListAssociationsForLicenseConfiguration": " Lists the resource associations for the specified license configuration. Resource associations need not consume licenses from a license configuration. For example, an AMI or a stopped instance might not consume a license (depending on the license rules). ",

"ListDistributedGrants": " Lists the grants distributed for the specified license. ",
"ListFailuresForLicenseConfigurationOperations": " Lists the license configuration operations that failed. ",
"ListLicenseConfigurations": " Lists the license configurations for your account. ",
"ListLicenseConversionTasks": " Lists the license type conversion tasks for your account. ",
"ListLicenseManagerReportGenerators": " Lists the report generators for your account. ",
"ListLicenseSpecificationsForResource": " Describes the license configurations for the specified resource. ",
"ListLicenseVersions": " Lists all versions of the specified license. ",
"ListLicenses": " Lists the licenses for your account. ",
"ListReceivedGrants": " Lists grants that are received. Received grants are grants created while specifying the recipient as this Amazon Web Services account, your organization, or an organizational unit (OU) to which this member account belongs. ",
"ListReceivedGrantsForOrganization": " Lists the grants received for all accounts in the organization. ",
"ListReceivedLicenses": " Lists received licenses. ",
"ListReceivedLicensesForOrganization": " Lists the licenses received for all accounts in the organization. ",
"ListResourceInventory": " Lists resources managed using Systems Manager inventory. ",
"ListTagsForResource": " Lists the tags for the specified license configuration. ",
"ListTokens": " Lists your tokens. ",
"ListUsageForLicenseConfiguration": " Lists all license usage records for a license configuration, displaying license consumption details by resource at a selected point in time. Use this action to audit the current license consumption for any license inventory and configuration. ",
"RejectGrant": " Rejects the specified grant. ",
"TagResource": " Adds the specified tags to the specified license configuration. ",
"UntagResource": " Removes the specified tags from the specified license configuration. ",
"UpdateLicenseConfiguration": " Modifies the attributes of an existing license configuration. ",
"UpdateLicenseManagerReportGenerator": " Updates a report generator. After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated. ",
"UpdateLicenseSpecificationsForResource": " Adds or removes the specified license configurations for the specified Amazon Web Services resource. You can update the license specifications of AMIs, instances, and hosts. You cannot update the license specifications for launch templates and CloudFormation templates, as they send license configurations to the operation that creates the resource. ",
"UpdateServiceSettings": " Updates License Manager settings for the current Region. "
},
"shapes": {
"AcceptGrantRequest": {
"base": null,
"refs": {
}
},
"AcceptGrantResponse": {
"base": null,
"refs": {
}
},

"AccessDeniedException": {
"base": " Access to resource denied. ",
"refs": {
}
},
"ActivationOverrideBehavior": {
"base": null,
"refs": {
"Options$ActivationOverrideBehavior": " An activation option for your grant that determines the behavior of activating a grant. Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the <code>Status</code> parameter.   As a license administrator, you can optionally specify an <code>ActivationOverrideBehavior</code> when activating a grant.   As a grantor, you can optionally specify an <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee account in your organization.   As a grantee, if the grantor creating the distributed grant doesnt specify an <code>ActivationOverrideBehavior</code>, you can optionally specify one when you are activating the grant.   <dl> <dt>DISTRIBUTED_GRANTS_ONLY</dt> <dd> Use this value to activate a grant without replacing any member accounts active grants for the same product. </dd> <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt> <dd> Use this value to activate a grant and disable other active grants in any member accounts for the same product. This action will also replace their previously activated grants with this activated grant. </dd> </dl>"
}
},
"AllowedOperation": {
"base": null,
"refs": {
"AllowedOperationList$member": null
}
},
"AllowedOperationList": {
"base": null,
"refs": {
"CreateGrantRequest$AllowedOperations": " Allowed operations for the grant. ",
"CreateGrantVersionRequest$AllowedOperations": " Allowed operations for the grant. ",
"Grant$GrantedOperations": " Granted operations. ",
"ReceivedMetadata$AllowedOperations": " Allowed operations. "
}
},
"Arn": {
"base": null,
"refs": {
"AcceptGrantRequest$GrantArn": " Amazon Resource Name (ARN) of the grant. ",
"AcceptGrantResponse$GrantArn": " Grant ARN. ",
"ArnList$member": null,
"CheckoutBorrowLicenseRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. The license must use the borrow consumption configuration. ",
"CheckoutBorrowLicenseResponse$LicenseArn":

" Amazon Resource Name (ARN) of the license. ",
"CreateGrantRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"CreateGrantResponse$GrantArn": " Grant ARN. ",
"CreateGrantVersionRequest$GrantArn": " Amazon Resource Name (ARN) of the grant. ",
"CreateGrantVersionResponse$GrantArn": " Grant ARN. ",
"CreateLicenseConversionTaskForResourceRequest$ResourceArn": " Amazon Resource Name (ARN) of the resource you are converting the license type for. ",
"CreateLicenseResponse$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"CreateLicenseVersionRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"CreateLicenseVersionResponse$LicenseArn": " License ARN. ",
"CreateTokenRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the JWT token. ",
"DeleteGrantRequest$GrantArn":
" Amazon Resource Name (ARN) of the grant. ",
"DeleteGrantResponse$GrantArn": " Grant ARN. ",
"DeleteLicenseRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"GetGrantRequest$GrantArn": " Amazon Resource Name (ARN) of the grant. ",
"GetLicenseRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"GetLicenseUsageRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"Grant$GrantArn": " Amazon Resource Name (ARN) of the grant. ",
"Grant$ParentArn": " Parent ARN. ",
"Grant$LicenseArn": " License ARN. ",
"Grant$GranteePrincipalArn": " The grantee principal ARN. ",
"GrantedLicense$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"License$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"ListLicenseVersionsRequest$LicenseArn": " Amazon Resource Name (ARN) of
the license. ",
"ListReceivedGrantsForOrganizationRequest$LicenseArn": " The Amazon Resource Name (ARN) of the received license. ",
"PrincipalArnList$member": null,
"RejectGrantRequest$GrantArn": " Amazon Resource Name (ARN) of the grant. ",
"RejectGrantResponse$GrantArn": " Grant ARN. "
}
},
"ArnList": {
"base": null,
"refs": {
"CreateTokenRequest$RoleArns": " Amazon Resource Name (ARN) of the IAM roles to embed in the token. License Manager does not check whether the roles are in use. ",
"ListDistributedGrantsRequest$GrantArns": " Amazon Resource Names (ARNs) of the grants. ",
"ListLicensesRequest$LicenseArns": " Amazon Resource Names (ARNs) of the licenses. ",
"ListReceivedGrantsRequest$GrantArns": " Amazon Resource Names (ARNs) of the grants. ",
"ListReceivedLicensesRequest$LicenseArns": " Amazon Resource Names (ARNs) of the licenses. ",

"ReportContext$licenseConfigurationArns": " Amazon Resource Name (ARN) of the license configuration that this generator reports on. ",
"TokenData$RoleArns": " Amazon Resource Names (ARN) of the roles included in the token. "
}

},
"AuthorizationException": {
"base": " The Amazon Web Services user account does not have permission to perform the action. Check the IAM policy associated with this account. ",
"refs": {
}
},
"AutomatedDiscoveryInformation": {
"base": " Describes automated discovery. ",
"refs": {
"GetLicenseConfigurationResponse$AutomatedDiscoveryInformation": " Automated discovery information. ",
"LicenseConfiguration$AutomatedDiscoveryInformation": " Automated discovery information. "
}
},
"Boolean": {
"base": null,
"refs": {
"ExtendLicenseConsumptionRequest$DryRun": " Checks whether you have the required permissions for the action,
without actually making the request. Provides an error response if you do not have the required permissions. ",
"OrganizationConfiguration$EnableIntegration": " Enables Organizations integration. "
}
},
"BorrowConfiguration": {
"base": " Details about a borrow configuration. ",
"refs": {
"ConsumptionConfiguration$BorrowConfiguration": " Details about a borrow configuration. "
}
},
"BoxBoolean": {
"base": null,
"refs": {
"BorrowConfiguration$AllowEarlyCheckIn": " Indicates whether early check-ins are allowed. ",
"CreateLicenseConfigurationRequest$LicenseCountHardLimit": " Indicates whether hard or soft license enforcement is used. Exceeding a hard limit blocks the launch of new instances. ",
"CreateLicenseConfigurationRequest$DisassociateWhenNotFound": " When true, disassociates a resource when software is uninstalled. ",
"Entitlement$Overage": " Indicates
whether overages are allowed. ",
"Entitlement$AllowCheckIn": " Indicates whether check-ins are allowed. ",
"GetLicenseConfigurationResponse$LicenseCountHardLimit": " Sets the number of available licenses as a hard limit. ",
"GetLicenseConfigurationResponse$DisassociateWhenNotFound": " When true, disassociates a resource when software is uninstalled. ",
"GetServiceSettingsResponse$EnableCrossAccountsDiscovery": " Indicates whether cross-account discovery is enabled. ",
"LicenseConfiguration$LicenseCountHardLimit": " Number of available licenses as a hard limit. ",

"LicenseConfiguration$DisassociateWhenNotFound": " When true, disassociates a resource when software is uninstalled. ",
"UpdateLicenseConfigurationRequest$LicenseCountHardLimit": " New hard limit of the number of available licenses. ",
"UpdateLicenseConfigurationRequest$DisassociateWhenNotFound": " When true, disassociates a resource when software is uninstalled. ",
"UpdateServiceSettingsRequest$EnableCrossAccountsDiscovery": " Activates cross-account discovery. "
}
},
"BoxInteger": {
"base": null,
"refs": {
"BorrowConfiguration$MaxTimeToLiveInMinutes": " Maximum time for the borrow configuration, in minutes. ",
"ListAssociationsForLicenseConfigurationRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListFailuresForLicenseConfigurationOperationsRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListLicenseConfigurationsRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListLicenseConversionTasksRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListLicenseSpecificationsForResourceRequest$MaxResults": " Maximum number of results to return in a single call. ",

"ListResourceInventoryRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListUsageForLicenseConfigurationRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ProvisionalConfiguration$MaxTimeToLiveInMinutes": " Maximum time for the provisional configuration, in minutes. "
}
},
"BoxLong": {
"base": null,
"refs": {
"ConsumedLicenseSummary$ConsumedLicenses": " Number of licenses consumed by the resource. ",
"CreateLicenseConfigurationRequest$LicenseCount": " Number of licenses managed by the license configuration. ",
"GetLicenseConfigurationResponse$LicenseCount": " Number of available licenses. ",
"GetLicenseConfigurationResponse$ConsumedLicenses": " Number of licenses assigned to resources. ",
"LicenseConfiguration$LicenseCount": " Number of licenses managed by the license configuration. ",
"LicenseConfiguration$ConsumedLicenses": " Number of licenses consumed. ",
"LicenseConfigurationUsage$ConsumedLicenses": " Number of licenses consumed by the resource. ",
"ManagedResourceSummary$AssociationCount": " Number of resources associated with licenses. ",
"UpdateLicenseConfigurationRequest$LicenseCount": " New number of licenses managed by the license configuration. "

```
    }
  },
  "CheckInLicenseRequest": {
    "base": null,
    "refs": {
    }
  },
  "CheckInLicenseResponse": {
    "base": null,
    "refs": {
    }
  },
  "CheckoutBorrowLicenseRequest": {
    "base": null,
    "refs": {
    }
  },
  "CheckoutBorrowLicenseResponse": {
    "base": null,
    "refs": {
    }
  },
  "CheckoutLicenseRequest": {
    "base": null,
    "refs": {
    }
  },
  "CheckoutLicenseResponse": {
    "base": null,
    "refs": {
    }
  },
  "CheckoutType": {
    "base": null,
    "refs": {
      "CheckoutLicenseRequest$CheckoutType": "<p>Checkout type.</p>",
      "CheckoutLicenseResponse$CheckoutType": "<p>Checkout type.</p>"
    }
  },
  "ClientRequestToken": {
    "base": null,
    "refs": {
      "CreateLicenseManagerReportGeneratorRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
      "UpdateLicenseManagerReportGeneratorRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>"
    }
  },
```

"ClientToken": {
"base": null,
"refs": {
"CheckoutBorrowLicenseRequest$ClientToken": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"CheckoutLicenseRequest$ClientToken": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"CreateGrantRequest$ClientToken": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"CreateGrantVersionRequest$ClientToken": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"CreateLicenseRequest$ClientToken": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"CreateLicenseVersionRequest$ClientToken": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"CreateTokenRequest$ClientToken": " Idempotency token, valid for 10 minutes. "
}
},
"ConflictException": {
"base": " There was a conflict processing the request. Try your request again. ",
"refs": {
}
},
"ConsumedLicenseSummary": {
"base": " Details about license consumption. ",
"refs": {
"ConsumedLicenseSummaryList$member": null
}
},
"ConsumedLicenseSummaryList": {
"base": null,
"refs": {
"GetLicenseConfigurationResponse$ConsumedLicenseSummaryList": " Summaries of the licenses consumed by resources. ",
"LicenseConfiguration$ConsumedLicenseSummaryList": " Summaries for licenses consumed by various resources. "
}
},
"ConsumptionConfiguration": {
"base": " Details about a consumption configuration. ",
"refs": {
"CreateLicenseRequest$ConsumptionConfiguration": " Configuration for consumption of the license. Choose a provisional configuration for workloads running with continuous connectivity. Choose a borrow configuration for workloads with offline usage. ",
"CreateLicenseVersionRequest$ConsumptionConfiguration": " Configuration for consumption of the license. Choose a provisional configuration for workloads running with continuous connectivity. Choose a borrow configuration for workloads with offline usage. ",
"GrantedLicense$ConsumptionConfiguration":

" Configuration for consumption of the license. ",
"License$ConsumptionConfiguration": " Configuration for consumption of the license. "
}
},
"CreateGrantRequest": {
"base": null,
"refs": {
}
},
"CreateGrantResponse": {
"base": null,
"refs": {
}
},
"CreateGrantVersionRequest": {
"base": null,
"refs": {
}
},
"CreateGrantVersionResponse": {
"base": null,
"refs": {
}
},
"CreateLicenseConfigurationRequest": {
"base": null,
"refs": {
}
},
"CreateLicenseConfigurationResponse": {
"base": null,
"refs": {
}
},
"CreateLicenseConversionTaskForResourceRequest": {
"base": null,
"refs": {
}
},
"CreateLicenseConversionTaskForResourceResponse": {
"base": null,
"refs": {
}
},
"CreateLicenseManagerReportGeneratorRequest": {
"base": null,
"refs": {

```
    }
  },
  "CreateLicenseManagerReportGeneratorResponse": {
    "base": null,
    "refs": {
    }
  },
  "CreateLicenseRequest": {
    "base": null,
    "refs": {
    }
  },
  "CreateLicenseResponse": {
    "base": null,
    "refs": {
    }
  },
  "CreateLicenseVersionRequest": {
    "base": null,
    "refs": {
    }
  },
  "CreateLicenseVersionResponse": {
    "base": null,
    "refs": {
    }
  },
  "CreateTokenRequest": {
    "base": null,
    "refs": {
    }
  },
  "CreateTokenResponse": {
    "base": null,
    "refs": {
    }
  },
  "DateTime": {
    "base": null,
    "refs": {
      "AutomatedDiscoveryInformation$LastRunTime": "<p>Time that automated discovery last ran.</p>",
      "GetLicenseConversionTaskResponse$StartTime": "<p>Time at which the license type conversion task was started .</p>",
      "GetLicenseConversionTaskResponse$LicenseConversionTime": "<p>Amount of time to complete the license type conversion.</p>",
      "GetLicenseConversionTaskResponse$EndTime": "<p>Time at which the license type conversion task was completed.</p>",
      "LicenseConfigurationAssociation$AssociationTime": "<p>Time when the license configuration was associated
```

with the resource. ",
"LicenseConfigurationUsage$AssociationTime": " Time when the license configuration was initially associated with the resource. ",
"LicenseConversionTask$StartTime": " The time the conversion task was started at. ",
"LicenseConversionTask$LicenseConversionTime": " The time the usage operation value of the resource was changed. ",
"LicenseConversionTask$EndTime": " The time the conversion task was completed. ",
"LicenseOperationFailure$FailureTime": " Failure time. "
}
},
"DatetimeRange": {
"base": " Describes a time range, in ISO8601-UTC format. ",
"refs": {
"CreateLicenseRequest$Validity": " Date
and time range during which the license is valid, in ISO8601-UTC format. ",
"CreateLicenseVersionRequest$Validity": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"GrantedLicense$Validity": " Date and time range during which the granted license is valid, in ISO8601-UTC format. ",
"License$Validity": " Date and time range during which the license is valid, in ISO8601-UTC format. "
}
},
"DeleteGrantRequest": {
"base": null,
"refs": {
}
},
"DeleteGrantResponse": {
"base": null,
"refs": {
}
},
"DeleteLicenseConfigurationRequest": {
"base": null,
"refs": {
}
},
"DeleteLicenseConfigurationResponse": {
"base": null,
"refs": {
}
},
"DeleteLicenseManagerReportGeneratorRequest": {
"base": null,
"refs": {
}
},
"DeleteLicenseManagerReportGeneratorResponse": {

"base": null,
"refs": {
}
},
"DeleteLicenseRequest": {
"base": null,
"refs": {
}
},
"DeleteLicenseResponse": {
"base": null,
"refs": {
}
},
"DeleteTokenRequest": {
"base": null,
"refs": {
}
},
"DeleteTokenResponse": {
"base": null,
"refs": {
}
},
"DigitalSignatureMethod": {
"base": null,
"refs": {
"CheckoutBorrowLicenseRequest$DigitalSignatureMethod": " Digital signature method. The possible value is JSON Web Signature (JWS) algorithm PS384. For more information, see RFC 7518 Digital Signature with RSASSA-PSS. "
}
},
"Entitlement": {
"base": " Describes a resource entitled for use with a license. ",
"refs": {
"EntitlementList$member": null
}
},
"EntitlementData": {
"base": " Data associated with an entitlement resource. ",

"refs": {
"EntitlementDataList$member": null
}
},
"EntitlementDataList": {
"base": null,
"refs": {

"CheckoutBorrowLicenseRequest$Entitlements": " License entitlements. Partial checkouts are not supported. ",
"CheckoutBorrowLicenseResponse$EntitlementsAllowed": " Allowed license entitlements. ",
"CheckoutLicenseRequest$Entitlements": " License entitlements. ",
"CheckoutLicenseResponse$EntitlementsAllowed": " Allowed license entitlements. "
}
},
"EntitlementDataUnit": {
"base": null,
"refs": {
"EntitlementData$Unit": " Entitlement data unit. ",
"EntitlementUsage$Unit": " Entitlement usage unit. "
}
},
"EntitlementList": {
"base": null,
"refs": {
"CreateLicenseRequest$Entitlements": " License entitlements. ",
"CreateLicenseVersionRequest$Entitlements": " License entitlements. ",
"GrantedLicense$Entitlements": " License entitlements. ",
"License$Entitlements": " License entitlements. "
}
},
"EntitlementNotAllowedException": {
"base": " The entitlement is not allowed. ",
"refs": {
}
},
"EntitlementUnit": {
"base": null,
"refs": {
"Entitlement$Unit": " Entitlement unit. "
}
},
"EntitlementUsage": {
"base": " Usage associated with an entitlement resource. ",
"refs": {
"EntitlementUsageList$member": null
}
},
"EntitlementUsageList": {
"base": null,
"refs": {
"LicenseUsage$EntitlementUsages": " License entitlement usages. "
}
},
"ExtendLicenseConsumptionRequest": {

"base": null,
"refs": {
}
},
"ExtendLicenseConsumptionResponse": {
"base": null,
"refs": {
}
},
"FailedDependencyException": {
"base": " A dependency required to run the API is missing. ",
"refs": {
}
},
"Filter": {
"base": " A filter name and value pair that is used to return more specific results from a describe operation. Filters can be used to match a set of resources by specific criteria, such as tags, attributes, or IDs. ",
"refs": {
"FilterList$member": null,
"Filters$member": null
}
},
"FilterLimitExceededException": {
"base": " The request uses too many filters or too many filter values. ",
"refs": {
}
},
"FilterList": {
"base": null,
"refs": {
"ListDistributedGrantsRequest$Filters": " Filters to scope the results. The following filters are supported: <ul> <code>LicenseArn</code>   <code>GrantStatus</code>   <code>GranteePrincipalARN</code>   <code>ProductSKU</code>   <code>LicenseIssuerName</code> ",
"ListLicenseManagerReportGeneratorsRequest$Filters": " Filters to scope the results. The following filters are supported: <ul> <code>LicenseConfigurationArn</code> ",
"ListLicensesRequest$Filters": " Filters to scope the results. The following filters are supported: <ul> <code>Beneficiary</code>   <code>ProductSKU</code>   <code>Fingerprint</code>   <code>Status</code> ",
"ListReceivedGrantsForOrganizationRequest$Filters": " Filters to scope the results. The following filters are supported: <ul> <code>ParentArn</code>   <code>GranteePrincipalArn</code> ",
"ListReceivedGrantsRequest$Filters": " Filters to scope the results. The following filters are supported: <ul> <code>ProductSKU</code>   <code>LicenseIssuerName</code>   <code>LicenseArn</code>   <code>GrantStatus</code>   <code>GranterAccountId</code> ",
"ListReceivedLicensesForOrganizationRequest$Filters": " Filters to scope the results. The following filters

are supported: <ul> <code>Beneficiary</code>   <code>ProductSKU</code> ",
"ListReceivedLicensesRequest$Filters": " Filters to scope the results. The following filters are supported: <ul> <code>ProductSKU</code>   <code>Status</code>   <code>Fingerprint</code>   <code>IssuerName</code>   <code>Beneficiary</code> ",
"ListTokensRequest$Filters": " Filters to scope the results. The following filter is supported: <ul> <code>LicenseArns</code> "
}
},
"FilterName": {
"base": null,
"refs": {
"Filter$Name": " Name of the filter. Filter names are case-sensitive. "
}
},
"FilterValue": {
"base": null,
"refs": {
"FilterValues$member": null
}
},
"FilterValues": {
"base": null,
"refs": {
"Filter$Values": " The value of the filter, which is case-sensitive. You can only specify one value for the filter. "
}
},
"Filters": {
"base": null,
"refs": {
"ListLicenseConfigurationsRequest$Filters": " Filters to scope the results. The following filters and logical operators are supported: <ul> <code>licenseCountingType</code> - The dimension for which licenses are counted. Possible values are <code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.   <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license enforcement is used. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.   <code>usagelimitExceeded</code> - A Boolean value that indicates whether the available licenses have been exceeded. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. ",
"ListLicenseConversionTasksRequest$Filters": " Filters to scope the results. Valid filters are <code>ResourceArns</code> and <code>Status</code>. ",
"ListUsageForLicenseConfigurationRequest$Filters": " Filters to scope the results. The following filters and logical operators are supported: <ul> <code>resourceArn</code> - The ARN of the license configuration resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.   <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> |

<code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.   <code>resourceAccount</code> - The ID of the account that owns the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. "
    }
  },
  "GetAccessTokenRequest": {
    "base": null,
    "refs": {
    }
  },
  "GetAccessTokenResponse": {
    "base": null,
    "refs": {
    }
  },
  "GetGrantRequest": {
    "base": null,
    "refs": {
    }
  },
  "GetGrantResponse": {
    "base": null,
    "refs": {
    }
  },
  "GetLicenseConfigurationRequest": {
    "base": null,
    "refs": {
    }
  },
  "GetLicenseConfigurationResponse": {
    "base": null,
    "refs": {
    }
  },
  "GetLicenseConversionTaskRequest": {
    "base": null,
    "refs": {
    }
  },
  "GetLicenseConversionTaskResponse": {
    "base": null,
    "refs": {
    }
  },
  "GetLicenseManagerReportGeneratorRequest": {
    "base": null,

"refs": {
}
},
"GetLicenseManagerReportGeneratorResponse": {
"base":
null,
"refs": {
}
},
"GetLicenseRequest": {
"base": null,
"refs": {
}
},
"GetLicenseResponse": {
"base": null,
"refs": {
}
},
"GetLicenseUsageRequest": {
"base": null,
"refs": {
}
},
"GetLicenseUsageResponse": {
"base": null,
"refs": {
}
},
"GetServiceSettingsRequest": {
"base": null,
"refs": {
}
},
"GetServiceSettingsResponse": {
"base": null,
"refs": {
}
},
"Grant": {
"base": " Describes a grant. ",
"refs": {
"GetGrantResponse$Grant": " Grant details. ",
"GrantList$member": null
}
},
"GrantList": {
"base": null,

"refs": {
"ListDistributedGrantsResponse$Grants": " Distributed grant details. ",
"ListReceivedGrantsForOrganizationResponse$Grants": " Lists the grants the organization has received. ",
"ListReceivedGrantsResponse$Grants": " Received grant details. "
}
},
"GrantStatus": {
"base": null,
"refs": {
"AcceptGrantResponse$Status": " Grant status. ",
"CreateGrantResponse$Status": " Grant status. ",
"CreateGrantVersionRequest$Status": " Grant status. ",
"CreateGrantVersionResponse$Status": " Grant status. ",
"DeleteGrantResponse$Status": " Grant status. ",
"Grant$GrantStatus": " Grant status. ",
"RejectGrantResponse$Status": " Grant status. "
}
},
"GrantedLicense": {
"base": " Describes a license that is granted to a grantee. ",
"refs": {
"GrantedLicenseList$member": null
}
},
"GrantedLicenseList": {
"base": null,
"refs": {
"ListReceivedLicensesForOrganizationResponse$Licenses": " Lists the licenses the organization has received. ",
"ListReceivedLicensesResponse$Licenses": " Received license details. "
}
},
"ISO8601DateTime": {
"base": null,
"refs": {
"CheckoutBorrowLicenseResponse$IssuedAt": " Date and time at which the license checkout is issued. ",
"CheckoutBorrowLicenseResponse$Expiration": " Date and time at which the license checkout expires. ",
"CheckoutLicenseResponse$IssuedAt": " Date and time at which the license checkout is issued. ",
"CheckoutLicenseResponse$Expiration": " Date and time at which the license checkout expires. ",
"DatetimeRange$Begin": " Start of the time range. ",
"DatetimeRange$End": " End of the time range. ",
"DeleteLicenseResponse$DeletionDate": " Date when the license is deleted. ",
"ExtendLicenseConsumptionResponse$Expiration": " Date and time at which the license consumption

expires. ",
"GrantedLicense$CreateTime": " Creation time of the granted license. ",
"License$CreateTime": " License
creation time. ",
"TokenData$ExpirationTime": " Token expiration time, in ISO8601-UTC format. "
}
},
"Integer": {
"base": null,
"refs": {
"CreateTokenRequest$ExpirationInDays": " Token expiration, in days, counted from token creation. The default is 365 days. ",
"ReportFrequency$value": " Number of times within the frequency period that a report is generated. The only supported value is <code>1</code>. "
}
},
"InvalidParameterValueException": {
"base": " One or more parameter values are not valid. ",
"refs": {
}
},
"InvalidResourceStateException": {
"base": " License Manager cannot allocate a license to a resource because of its state. For example, you cannot allocate a license to an instance in the process of shutting down. ",
"refs": {
}
},
"InventoryFilter": {
"base": " An inventory filter. ",
"refs": {

"InventoryFilterList$member": null
}
},
"InventoryFilterCondition": {
"base": null,
"refs": {
"InventoryFilter$Condition": " Condition of the filter. "
}
},
"InventoryFilterList": {
"base": null,
"refs": {
"ListResourceInventoryRequest$Filters": " Filters to scope the results. The following filters and logical operators are supported: <ul> <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.   <code>application_name</code> - The name of the application. Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.

<code>license_included</code> - The type of license included. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. Possible values are <code>sql-server-enterprise</code> | <code>sql-server-standard</code> | <code>sql-server-web</code>
| <code>windows-server-datacenter</code>.   <code>platform</code> - The platform of the resource. Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.   <code>resource_id</code> - The ID of the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.   <code>tag:<key></code> - The key/value combination of a tag assigned to the resource. Logical operators are <code>EQUALS</code> (single account) or <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account). "
    }
  },
  "Issuer": {
    "base": " Details about the issuer of a license. ",
    "refs": {
      "CreateLicenseRequest$Issuer": " License issuer. ",
      "CreateLicenseVersionRequest$Issuer": " License issuer. "
    }
  },
  "IssuerDetails": {
    "base": " Details associated with the issuer of a license. ",
    "refs": {
      "GrantedLicense$Issuer": " Granted
license issuer. ",
      "License$Issuer": " License issuer. "
    }
  },
  "License": {
    "base": " Software license that is managed in License Manager. ",
    "refs": {
      "GetLicenseResponse$License": " License details. ",
      "LicenseList$member": null
    }
  },
  "LicenseConfiguration": {
    "base": " A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM must be associated with a host), and the number of licenses purchased and used. ",
    "refs": {
      "LicenseConfigurations$member": null
    }
  },
  "LicenseConfigurationAssociation": {
    "base": " Describes an association with a license configuration. ",
    "refs": {
      "LicenseConfigurationAssociations$member": null
    }
  },

"LicenseConfigurationAssociations": {
"base": null,
"refs": {
"ListAssociationsForLicenseConfigurationResponse$LicenseConfigurationAssociations": " Information about the associations for the license configuration. "
}
},
"LicenseConfigurationStatus": {
"base": null,
"refs": {
"UpdateLicenseConfigurationRequest$LicenseConfigurationStatus": " New status of the license configuration. "
}
},
"LicenseConfigurationUsage": {
"base": " Details about the usage of a resource associated with a license configuration. ",
"refs": {
"LicenseConfigurationUsageList$member": null
}
},
"LicenseConfigurationUsageList": {
"base": null,
"refs": {
"ListUsageForLicenseConfigurationResponse$LicenseConfigurationUsageList": " Information about the license configurations. "
}

},
"LicenseConfigurations": {
"base": null,
"refs": {
"ListLicenseConfigurationsResponse$LicenseConfigurations": " Information about the license configurations. "
}
},
"LicenseConversionContext": {
"base": " Information about a license type conversion task. ",
"refs": {
"CreateLicenseConversionTaskForResourceRequest$SourceLicenseContext": " Information that identifies the license type you are converting from. For the structure of the source license, see Convert a license type using the CLI in the License Manager User Guide. ",
"CreateLicenseConversionTaskForResourceRequest$DestinationLicenseContext": " Information that identifies the license type you are converting to. For the structure of the destination license, see Convert
a license type using the CLI in the License Manager User Guide. ",
"GetLicenseConversionTaskResponse$SourceLicenseContext": " Information about the license type

converted from. ",
"GetLicenseConversionTaskResponse$DestinationLicenseContext": " Information about the license type converted to. ",
"LicenseConversionTask$SourceLicenseContext": " Information about the license type this conversion task converted from. ",
"LicenseConversionTask$DestinationLicenseContext": " Information about the license type this conversion task converted to. "
}
},
"LicenseConversionTask": {
"base": " Information about a license type conversion task. ",
"refs": {
"LicenseConversionTasks$member": null
}
},
"LicenseConversionTaskId": {
"base": null,
"refs": {
"CreateLicenseConversionTaskForResourceResponse$LicenseConversionTaskId":
" The ID of the created license type conversion task. ",
"GetLicenseConversionTaskRequest$LicenseConversionTaskId": " ID of the license type conversion task to retrieve information on. ",
"GetLicenseConversionTaskResponse$LicenseConversionTaskId": " ID of the license type conversion task. ",
"LicenseConversionTask$LicenseConversionTaskId": " The ID of the license type conversion task. "
}
},
"LicenseConversionTaskStatus": {
"base": null,
"refs": {
"GetLicenseConversionTaskResponse$Status": " Status of the license type conversion task. ",
"LicenseConversionTask$Status": " The status of the conversion task. "
}
},
"LicenseConversionTasks": {
"base": null,
"refs": {
"ListLicenseConversionTasksResponse$LicenseConversionTasks": " Information about the license configuration tasks for your account. "
}
},
"LicenseCountingType":
{
"base": null,
"refs": {
"CreateLicenseConfigurationRequest$LicenseCountingType": " Dimension used to track the license inventory. ",
"GetLicenseConfigurationResponse$LicenseCountingType": " Dimension for which the licenses are

counted. ",
      "LicenseConfiguration$LicenseCountingType": " Dimension to use to track the license inventory. "
    }
  },
  "LicenseDeletionStatus": {
    "base": null,
    "refs": {
      "DeleteLicenseResponse$Status": " License status. "
    }
  },
  "LicenseList": {
    "base": null,
    "refs": {
      "ListLicenseVersionsResponse$Licenses": " License details. ",
      "ListLicensesResponse$Licenses": " License details. "
    }
  },
  "LicenseOperationFailure": {
    "base": " Describes the failure of a license operation. ",
    "refs": {
      "LicenseOperationFailureList$member": null
    }
  },
  "LicenseOperationFailureList": {
    "base":
null,
    "refs": {
      "ListFailuresForLicenseConfigurationOperationsResponse$LicenseOperationFailureList": " License
configuration operations that failed. "
    }
  },
  "LicenseSpecification": {
    "base": " Details for associating a license configuration with a resource. ",
    "refs": {
      "LicenseSpecifications$member": null
    }
  },
  "LicenseSpecifications": {
    "base": null,
    "refs": {
      "ListLicenseSpecificationsForResourceResponse$LicenseSpecifications": " License configurations
associated with a resource. ",
      "UpdateLicenseSpecificationsForResourceRequest$AddLicenseSpecifications": " ARNs of the license
configurations to add. ",
      "UpdateLicenseSpecificationsForResourceRequest$RemoveLicenseSpecifications": " ARNs of the license
configurations to remove. "
    }
  },

"LicenseStatus": {
"base": null,
"refs": {
"CreateLicenseResponse$Status": " License status. ",
"CreateLicenseVersionRequest$Status": " License status. ",
"CreateLicenseVersionResponse$Status": " License status. ",
"GrantedLicense$Status": " Granted license status. ",
"License$Status": " License status. "
}
},
"LicenseUsage": {
"base": " Describes the entitlement usage associated with a license. ",
"refs": {
"GetLicenseUsageResponse$LicenseUsage": " License usage details. "
}
},
"LicenseUsageException": {
"base": " You do not have enough licenses available to support a new resource launch. ",
"refs": {
}
},
"ListAssociationsForLicenseConfigurationRequest": {
"base": null,
"refs": {
}
},
"ListAssociationsForLicenseConfigurationResponse": {
"base": null,
"refs": {
}
},
"ListDistributedGrantsRequest": {
"base": null,
"refs": {
}
},
"ListDistributedGrantsResponse":
{
"base": null,
"refs": {
}
},
"ListFailuresForLicenseConfigurationOperationsRequest": {
"base": null,
"refs": {
}
},
"ListFailuresForLicenseConfigurationOperationsResponse": {

"base": null,
"refs": {
}
},
"ListLicenseConfigurationsRequest": {
"base": null,
"refs": {
}
},
"ListLicenseConfigurationsResponse": {
"base": null,
"refs": {
}
},
"ListLicenseConversionTasksRequest": {
"base": null,
"refs": {
}
},
"ListLicenseConversionTasksResponse": {
"base": null,
"refs": {
}
},
"ListLicenseManagerReportGeneratorsRequest": {
"base": null,
"refs": {
}
},
"ListLicenseManagerReportGeneratorsResponse": {
"base": null,
"refs": {
}
},
"ListLicenseSpecificationsForResourceRequest": {
"base": null,
"refs": {
}
},
"ListLicenseSpecificationsForResourceResponse":
{
"base": null,
"refs": {
}
},
"ListLicenseVersionsRequest": {
"base": null,
"refs": {

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  }
},
"ListLicenseVersionsResponse": {
  "base": null,
  "refs": {
  }
},
"ListLicensesRequest": {
  "base": null,
  "refs": {
  }
},
"ListLicensesResponse": {
  "base": null,
  "refs": {
  }
},
"ListReceivedGrantsForOrganizationRequest": {
  "base": null,
  "refs": {
  }
},
"ListReceivedGrantsForOrganizationResponse": {
  "base": null,
  "refs": {
  }
},
"ListReceivedGrantsRequest": {
  "base": null,
  "refs": {
  }
},
"ListReceivedGrantsResponse": {
  "base": null,
  "refs": {
  }
},
"ListReceivedLicensesForOrganizationRequest": {
  "base": null,
  "refs": {
  }
},
"ListReceivedLicensesForOrganizationResponse": {
  "base": null,
  "refs": {
  }
},
"ListReceivedLicensesRequest":
```

{
  "base": null,
  "refs": {
  }
 },
 "ListReceivedLicensesResponse": {
  "base": null,
  "refs": {
  }
 },
 "ListResourceInventoryRequest": {
  "base": null,
  "refs": {
  }
 },
 "ListResourceInventoryResponse": {
  "base": null,
  "refs": {
  }
 },
 "ListTagsForResourceRequest": {
  "base": null,
  "refs": {
  }
 },
 "ListTagsForResourceResponse": {
  "base": null,
  "refs": {
  }
 },
 "ListTokensRequest": {
  "base": null,
  "refs": {
  }
 },
 "ListTokensResponse": {
  "base": null,
  "refs": {
  }
 },
 "ListUsageForLicenseConfigurationRequest": {
  "base": null,
  "refs": {
  }
 },
 "ListUsageForLicenseConfigurationResponse": {
  "base": null,
  "refs": {

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    }
  },
  "Location": {
    "base": null,
    "refs": {
      "RedirectException$Location": null
    }
  },
  "Long":
 {
    "base": null,
    "refs": {
      "Entitlement$MaxCount": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
    }
  },
  "ManagedResourceSummary": {
    "base": "<p>Summary information about a managed resource.</p>",
    "refs": {
      "ManagedResourceSummaryList$member": null
    }
  },
  "ManagedResourceSummaryList": {
    "base": null,
    "refs": {
      "GetLicenseConfigurationResponse$ManagedResourceSummaryList": "<p>Summaries of the managed
resources.</p>",
      "LicenseConfiguration$ManagedResourceSummaryList": "<p>Summaries for managed resources.</p>"
    }
  },
  "MaxSize100": {
    "base": null,
    "refs": {
      "ListDistributedGrantsRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",
      "ListLicenseManagerReportGeneratorsRequest$MaxResults": "<p>Maximum number of results to return in a
single call.</p>",
      "ListLicenseVersionsRequest$MaxResults": "<p>Maximum
 number of results to return in a single call.</p>",
      "ListLicensesRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",
      "ListReceivedGrantsForOrganizationRequest$MaxResults": "<p>Maximum number of results to return in a
single call.</p>",
      "ListReceivedGrantsRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",
      "ListReceivedLicensesForOrganizationRequest$MaxResults": "<p>Maximum number of results to return in a
single call.</p>",
      "ListReceivedLicensesRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",
      "ListTokensRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>"
    }
  },
  "MaxSize3StringList": {
```

"base": null,
"refs": {
"CreateTokenRequest$TokenProperties": " Data specified by the caller to be included in the JWT token. The data is mapped to the amr claim of the JWT token. ",

"GetAccessTokenRequest$TokenProperties": " Token properties to validate against those present in the JWT token. ",
"TokenData$TokenProperties": " Data specified by the caller. "
}
},
"Message": {
"base": null,
"refs": {
"AccessDeniedException$Message": null,
"AuthorizationException$Message": null,
"ConflictException$Message": null,
"EntitlementNotAllowedException$Message": null,
"FailedDependencyException$Message": null,
"FilterLimitExceededException$Message": null,
"InvalidParameterValueException$Message": null,
"InvalidResourceStateException$Message": null,
"LicenseUsageException$Message": null,
"NoEntitlementsAllowedException$Message": null,
"RateLimitExceededException$Message": null,
"RedirectException$Message": null,
"ResourceLimitExceededException$Message": null,
"ResourceNotFoundException$Message": null,
"ServerInternalException$Message":
null,
"UnsupportedDigitalSignatureMethodException$Message": null,
"ValidationException$Message": null
}
},
"Metadata": {
"base": " Describes key/value pairs. ",
"refs": {
"MetadataList$member": null
}
},
"MetadataList": {
"base": null,
"refs": {
"CheckoutBorrowLicenseRequest$CheckoutMetadata": " Information about constraints. ",
"CheckoutBorrowLicenseResponse$CheckoutMetadata": " Information about constraints. ",
"CreateLicenseRequest$LicenseMetadata": " Information about the license. ",
"CreateLicenseVersionRequest$LicenseMetadata": " Information about the license. ",
"GrantedLicense$LicenseMetadata": " Granted license metadata. ",
"License$LicenseMetadata": " License metadata. ",

"LicenseOperationFailure$MetadataList": " Reserved. "
}
},
"NoEntitlementsAllowedException": {

"base": " There are no entitlements found for this license, or the entitlement maximum count is reached. ",
"refs": {
}
},
"Options": {
"base": " The options you can specify when you create a new version of a grant, such as activation override behavior. For more information, see Granted licenses in License Manager in the License Manager User Guide. ",
"refs": {
"CreateGrantVersionRequest$Options": " The options specified for the grant. ",
"Grant$Options": " The options specified for the grant. "
}
},
"OrganizationConfiguration": {
"base": " Configuration information for Organizations. ",
"refs": {
"GetServiceSettingsResponse$OrganizationConfiguration": " Indicates whether Organizations is integrated with License Manager for cross-account discovery. ",
"UpdateServiceSettingsRequest$OrganizationConfiguration": " Enables integration with Organizations for cross-account discovery. "
}
},
"PrincipalArnList": {
"base": null,
"refs": {
"CreateGrantRequest$Principals": " The grant principals. You can specify one of the following as an Amazon Resource Name (ARN): <ul> An Amazon Web Services account, which includes only the account specified.   An organizational unit (OU), which includes all accounts in the OU.   An organization, which will include all accounts across your organization. "
}
},
"ProductInformation": {
"base": " Describes product information for a license configuration. ",
"refs": {
"ProductInformationList$member": null
}
},
"ProductInformationFilter": {
"base": " Describes product information filters. ",
"refs": {
"ProductInformationFilterList$member":

null
    }
  },
  "ProductInformationFilterList": {
    "base": null,
    "refs": {
      "ProductInformation$ProductInformationFilterList": " A Product information filter consists of a <code>ProductInformationFilterComparator</code> which is a logical operator, a <code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. Accepted values for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. The following filters and are supported when the resource type is <code>SSM_MANAGED</code>: <ul> <code>Application Name</code> - The name of the application. Logical operator is <code>EQUALS</code>.   <code>Application Publisher</code> - The publisher of the application. Logical operator is <code>EQUALS</code>.   <code>Application Version</code> - The version of the application. Logical operator is <code>EQUALS</code>.   <code>Platform Name</code> - The name of the platform. Logical operator is <code>EQUALS</code>.   <code>Platform Type</code> - The platform type. Logical operator is <code>EQUALS</code>.   <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.   <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>.   <code>License Included</code> - The type of license included. Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>. Possible values are: <code>sql-server-enterprise</code> | <code>sql-server-standard</code> | <code>sql-server-web</code> | <code>windows-server-datacenter</code>.   The following filters and logical operators are supported when the resource type is <code>RDS</code>: <ul> <code>Engine Edition</code> - The edition of the database engine. Logical operator is <code>EQUALS</code>. Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>.   <code>License Pack</code> - The license pack. Logical operator is <code>EQUALS</code>. Possible values are: <code>data guard</code> | <code>diagnostic pack sqlt</code> | <code>tuning pack sqlt</code> | <code>ols</code> | <code>olap</code>. "
    }
  },
  "ProductInformationList": {
    "base": null,
    "refs": {
      "CreateLicenseConfigurationRequest$ProductInformationList": " Product information. ",
      "GetLicenseConfigurationResponse$ProductInformationList": " Product information. ",
      "LicenseConfiguration$ProductInformationList": " Product information. ",
      "UpdateLicenseConfigurationRequest$ProductInformationList": " New product information. "
    }
  },
  "ProvisionalConfiguration": {
    "base": " Details about a provisional configuration. ",

"refs": {
"ConsumptionConfiguration$ProvisionalConfiguration": " Details about a provisional configuration. "
}
},
"RateLimitExceededException": {
"base": " Too many requests have been submitted. Try again after a brief wait. ",
"refs": {
}
},
"ReceivedMetadata": {
"base": " Metadata associated with received licenses and grants. ",
"refs": {
"GrantedLicense$ReceivedMetadata": " Granted license received metadata. "
}
},
"ReceivedStatus": {
"base": null,
"refs": {
"ReceivedMetadata$ReceivedStatus": " Received status. "
}
},
"RedirectException": {
"base": " This is not the correct Region for the resource. Try again. ",
"refs": {
}
},
"RejectGrantRequest": {
"base": null,
"refs": {
}
},
"RejectGrantResponse": {
"base": null,
"refs": {
}
},
"RenewType": {
"base": null,
"refs": {
"ConsumptionConfiguration$RenewType": " Renewal frequency. "
}
},
"ReportContext": {
"base": " Details of the license configuration that this generator reports on. ",
"refs": {
"CreateLicenseManagerReportGeneratorRequest$ReportContext": " Defines the type of license configuration the report generator tracks. ",
"ReportGenerator$ReportContext": " License configuration type for this generator. ",

"UpdateLicenseManagerReportGeneratorRequest$ReportContext":
" The report context. "
}
},
"ReportFrequency": {
"base": " Details about how frequently reports are generated. ",
"refs": {
"CreateLicenseManagerReportGeneratorRequest$ReportFrequency": " Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly. ",
"ReportGenerator$ReportFrequency": " Details about how frequently reports are generated. ",
"UpdateLicenseManagerReportGeneratorRequest$ReportFrequency": " Frequency by which reports are generated. "
}
},
"ReportFrequencyType": {
"base": null,
"refs": {
"ReportFrequency$period": " Time period between each report. The period can be daily, weekly, or monthly. "
}
},
"ReportGenerator": {
"base": " Describe the details of a report generator. ",
"refs": {
"GetLicenseManagerReportGeneratorResponse$ReportGenerator":
" A report generator that creates periodic reports about your license configurations. ",
"ReportGeneratorList$member": null
}
},
"ReportGeneratorList": {
"base": null,
"refs": {
"ListLicenseManagerReportGeneratorsResponse$ReportGenerators": " A report generator that creates periodic reports about your license configurations. "
}
},
"ReportGeneratorName": {
"base": null,
"refs": {
"CreateLicenseManagerReportGeneratorRequest$ReportGeneratorName": " Name of the report generator. ",
"UpdateLicenseManagerReportGeneratorRequest$ReportGeneratorName": " Name of the report generator. "
}
},
"ReportType": {
"base": null,
"refs": {

"ReportTypeList$member": null
}
},
"ReportTypeList": {
"base": null,
"refs": {
"CreateLicenseManagerReportGeneratorRequest$Type": " Type of reports to generate. The following report types an
be generated: <ul> License configuration report - Reports the number and details of consumed licenses for a license configuration.   Resource report - Reports the tracked licenses and resource consumption for a license configuration. ",
"ReportGenerator$ReportType": " Type of reports that are generated. ",
"UpdateLicenseManagerReportGeneratorRequest$Type": " Type of reports to generate. The following report types are supported: <ul> License configuration report - Reports the number and details of consumed licenses for a license configuration.   Resource report - Reports the tracked licenses and resource consumption for a license configuration. "
}
},
"ResourceInventory": {
"base": " Details about a resource. ",
"refs": {
"ResourceInventoryList$member": null
}
},
"ResourceInventoryList": {
"base": null,
"refs": {
"ListResourceInventoryResponse$ResourceInventoryList": " Information about the resources. "
}
},
"ResourceLimitExceededException": {
"base": " Your resource limits have been exceeded. ",
"refs": {
}
},
"ResourceNotFoundException": {
"base": " The resource cannot be found. ",
"refs": {
}
},
"ResourceType": {
"base": null,
"refs": {
"ConsumedLicenseSummary$ResourceType": " Resource type of the resource consuming a license. ",
"LicenseConfigurationAssociation$ResourceType": " Type of server resource. ",
"LicenseConfigurationUsage$ResourceType": " Type of resource. ",
"LicenseOperationFailure$ResourceType": " Resource type. ",
"ManagedResourceSummary$ResourceType": " Type of resource associated with a license. ",

"ResourceInventory$ResourceType": " Type of resource. "
}
},
"S3Location": {
"base":
" Details of the S3 bucket that report generator reports are published to. ",
"refs": {
"ReportGenerator$S3Location": " Details of the S3 bucket that report generator reports are published to. "
}
},
"ServerInternalException": {
"base": " The server experienced an internal error. Try again. ",
"refs": {
}
},
"SignedToken": {
"base": null,
"refs": {
"CheckoutBorrowLicenseResponse$SignedToken": " Signed token. ",
"CheckoutLicenseResponse$SignedToken": " Signed token. "
}
},
"StatusReasonMessage": {
"base": null,
"refs": {
"CreateGrantVersionRequest$StatusReason": " Grant status reason. ",
"DeleteGrantRequest$StatusReason": " The Status reason for the delete request. ",
"Grant$StatusReason": " Grant status reason. ",
"ReceivedMetadata$ReceivedStatusReason": " Received status reason. "
}
},

"String": {
"base": null,
"refs": {
"AcceptGrantResponse$Version": " Grant version. ",
"CheckInLicenseRequest$LicenseConsumptionToken": " License consumption token. ",
"CheckInLicenseRequest$Beneficiary": " License beneficiary. ",
"CheckoutBorrowLicenseRequest$NodeId": " Node ID. ",
"CheckoutBorrowLicenseResponse$LicenseConsumptionToken": " License consumption token. ",
"CheckoutBorrowLicenseResponse$NodeId": " Node ID. ",
"CheckoutLicenseRequest$ProductSKU": " Product SKU. ",
"CheckoutLicenseRequest$KeyFingerprint": " Key fingerprint identifying the license. ",
"CheckoutLicenseRequest$Beneficiary": " License beneficiary. ",
"CheckoutLicenseRequest$NodeId": " Node ID. ",
"CheckoutLicenseResponse$LicenseConsumptionToken": " License consumption token. ",
"CheckoutLicenseResponse$NodeId": " Node ID. ",

"CheckoutLicenseResponse$LicenseArn":
" Amazon Resource Name (ARN) of the checkout license. ",
"CreateGrantRequest$GrantName": " Grant name. ",
"CreateGrantRequest$HomeRegion": " Home Region of the grant. ",
"CreateGrantResponse$Version": " Grant version. ",
"CreateGrantVersionRequest$GrantName": " Grant name. ",
"CreateGrantVersionRequest$SourceVersion": " Current version of the grant. ",
"CreateGrantVersionResponse$Version": " New version of the grant. ",
"CreateLicenseConfigurationRequest$Name": " Name of the license configuration. ",
"CreateLicenseConfigurationRequest$Description": " Description of the license configuration. ",
"CreateLicenseConfigurationResponse$LicenseConfigurationArn": " Amazon Resource Name (ARN) of the license configuration. ",
"CreateLicenseManagerReportGeneratorRequest$Description": " Description of the report generator. ",
"CreateLicenseManagerReportGeneratorResponse$LicenseManagerReportGeneratorArn":
" The Amazon Resource Name (ARN) of the new report generator. ",
"CreateLicenseRequest$LicenseName": " License name. ",
"CreateLicenseRequest$ProductName": " Product name. ",
"CreateLicenseRequest$ProductSKU": " Product SKU. ",
"CreateLicenseRequest$HomeRegion": " Home Region for the license. ",
"CreateLicenseRequest$Beneficiary": " License beneficiary. ",
"CreateLicenseResponse$Version": " License version. ",
"CreateLicenseVersionRequest$LicenseName": " License name. ",
"CreateLicenseVersionRequest$ProductName": " Product name. ",
"CreateLicenseVersionRequest$HomeRegion": " Home Region of the license. ",
"CreateLicenseVersionRequest$SourceVersion": " Current version of the license. ",
"CreateLicenseVersionResponse$Version": " New version of the license. ",
"CreateTokenResponse$TokenId":
" Token ID. ",
"DeleteGrantRequest$Version": " Current version of the grant. ",
"DeleteGrantResponse$Version": " Grant version. ",
"DeleteLicenseConfigurationRequest$LicenseConfigurationArn": " ID of the license configuration. ",
"DeleteLicenseManagerReportGeneratorRequest$LicenseManagerReportGeneratorArn": " Amazon Resource Name (ARN) of the report generator to be deleted. ",
"DeleteLicenseRequest$SourceVersion": " Current version of the license. ",
"DeleteTokenRequest$TokenId": " Token ID. ",
"Entitlement$Name": " Entitlement name. ",
"Entitlement$Value": " Entitlement resource. Use only if the unit is None. ",
"EntitlementData$Name": " Entitlement data name. ",
"EntitlementData$Value": " Entitlement data value. ",
"EntitlementUsage$Name": " Entitlement usage name. ",
"EntitlementUsage$ConsumedValue":
" Resource usage consumed. ",
"EntitlementUsage$MaxCount": " Maximum entitlement usage count. ",
"ExtendLicenseConsumptionRequest$LicenseConsumptionToken": " License consumption token. ",
"ExtendLicenseConsumptionResponse$LicenseConsumptionToken": " License consumption token. ",
"FailedDependencyException$ErrorCode": null,
"GetGrantRequest$Version": " Grant version. ",
"GetLicenseConfigurationRequest$LicenseConfigurationArn": " Amazon Resource Name (ARN) of the

license configuration. ",
"GetLicenseConfigurationResponse$LicenseConfigurationId": " Unique ID for the license configuration. ",
"GetLicenseConfigurationResponse$LicenseConfigurationArn": " Amazon Resource Name (ARN) of the license configuration. ",
"GetLicenseConfigurationResponse$Name": " Name of the license configuration. ",
"GetLicenseConfigurationResponse$Description": " Description of the license configuration. ",
"GetLicenseConfigurationResponse$Status": " License configuration status. ",
"GetLicenseConfigurationResponse$OwnerAccountId": " Account ID of the owner of the license configuration. ",
"GetLicenseConversionTaskResponse$ResourceArn": " Amazon Resource Names (ARN) of the resources the license conversion task is associated with. ",
"GetLicenseConversionTaskResponse$StatusMessage": " The status message for the conversion task. ",
"GetLicenseManagerReportGeneratorRequest$LicenseManagerReportGeneratorArn": " Amazon Resource Name (ARN) of the report generator. ",
"GetLicenseRequest$Version": " License version. ",
"GetServiceSettingsResponse$S3BucketArn": " Regional S3 bucket path for storing reports, license trail event data, discovery data, and so on. ",
"GetServiceSettingsResponse$SnsTopicArn": " SNS topic configured to receive notifications from License Manager. ",
"GetServiceSettingsResponse$LicenseManagerResourceShareArn": " Amazon Resource Name (ARN) of the resource share. The License Manager management account provides member accounts with access to this share. ",
"Grant$GrantName": " Grant name. ",
"Grant$HomeRegion": " Home Region of the grant. ",
"Grant$Version": " Grant version. ",
"GrantedLicense$LicenseName": " License name. ",
"GrantedLicense$ProductName": " Product name. ",
"GrantedLicense$ProductSKU": " Product SKU. ",
"GrantedLicense$HomeRegion": " Home Region of the granted license. ",
"GrantedLicense$Beneficiary": " Granted license beneficiary. ",
"GrantedLicense$Version": " Version of the granted license. ",
"InventoryFilter$Name": " Name of the filter. ",
"InventoryFilter$Value": " Value of the filter. ",
"Issuer$Name": " Issuer name. ",
"Issuer$SignKey": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, and support the RSASSA-PSS SHA-256 signing algorithm. ",
"IssuerDetails$Name": " Issuer name. ",
"IssuerDetails$SignKey": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, and support the RSASSA-PSS SHA-256 signing algorithm. ",
"IssuerDetails$KeyFingerprint": " Issuer key fingerprint. ",
"License$LicenseName": " License name. ",
"License$ProductName": " Product name. ",
"License$ProductSKU": " Product SKU. ",
"License$HomeRegion": " Home Region of the license. ",
"License$Beneficiary": " License beneficiary. ",

"License$Version": " License version. ",
"LicenseConfiguration$LicenseConfigurationId": " Unique ID of the license configuration. ",
"LicenseConfiguration$LicenseConfigurationArn":
" Amazon Resource Name (ARN) of the license configuration. ",
"LicenseConfiguration$Name": " Name of the license configuration. ",
"LicenseConfiguration$Description": " Description of the license configuration. ",
"LicenseConfiguration$Status": " Status of the license configuration. ",
"LicenseConfiguration$OwnerAccountId": " Account ID of the license configuration's owner. ",
"LicenseConfigurationAssociation$ResourceArn": " Amazon Resource Name (ARN) of the resource. ",
"LicenseConfigurationAssociation$ResourceOwnerId": " ID of the Amazon Web Services account that owns the resource consuming licenses. ",
"LicenseConfigurationAssociation$AmiAssociationScope": " Scope of AMI associations. The possible value is <code>cross-account</code>. ",
"LicenseConfigurationUsage$ResourceArn": " Amazon Resource Name (ARN) of the resource. ",
"LicenseConfigurationUsage$ResourceStatus":
" Status of the resource. ",
"LicenseConfigurationUsage$ResourceOwnerId": " ID of the account that owns the resource. ",
"LicenseConversionTask$ResourceArn": " The Amazon Resource Name (ARN) of the resource associated with the license type conversion task. ",
"LicenseConversionTask$StatusMessage": " The status message for the conversion task. ",
"LicenseOperationFailure$ResourceArn": " Amazon Resource Name (ARN) of the resource. ",
"LicenseOperationFailure$ErrorMessage": " Error message. ",
"LicenseOperationFailure$OperationName": " Name of the operation. ",
"LicenseOperationFailure$ResourceOwnerId": " ID of the Amazon Web Services account that owns the resource. ",
"LicenseOperationFailure$OperationRequestedBy": " The requester is \"License Manager Automated Discovery\". ",
"LicenseSpecification$LicenseConfigurationArn": " Amazon Resource Name (ARN) of the license configuration. ",
"LicenseSpecification$AmiAssociationScope": " Scope of AMI associations. The possible value is <code>cross-account</code>. ",
"ListAssociationsForLicenseConfigurationRequest$LicenseConfigurationArn": " Amazon Resource Name (ARN) of a license configuration. ",
"ListAssociationsForLicenseConfigurationRequest$NextToken": " Token for the next set of results. ",
"ListAssociationsForLicenseConfigurationResponse$NextToken": " Token for the next set of results. ",
"ListDistributedGrantsRequest$NextToken": " Token for the next set of results. ",
"ListDistributedGrantsResponse$NextToken": " Token for the next set of results. ",
"ListFailuresForLicenseConfigurationOperationsRequest$LicenseConfigurationArn": " Amazon Resource Name of the license configuration. ",
"ListFailuresForLicenseConfigurationOperationsRequest$NextToken": " Token for the next set of results. ",

"ListFailuresForLicenseConfigurationOperationsResponse$NextToken": " Token for the next set of results. ",
"ListLicenseConfigurationsRequest$NextToken": " Token for the next set of results. ",
"ListLicenseConfigurationsResponse$NextToken": " Token for the next set of results. ",
"ListLicenseConversionTasksRequest$NextToken": " Token for the next set of results. ",
"ListLicenseConversionTasksResponse$NextToken": " Token for the next set of results. ",

"ListLicenseManagerReportGeneratorsRequest$NextToken": " Token for the next set of results. ",
"ListLicenseManagerReportGeneratorsResponse$NextToken": " Token for the next set of results. ",
"ListLicenseSpecificationsForResourceRequest$ResourceArn": " Amazon Resource Name (ARN) of a resource that has an associated license configuration. ",
"ListLicenseSpecificationsForResourceRequest$NextToken": " Token for the next set of results. ",
"ListLicenseSpecificationsForResourceResponse$NextToken": " Token for the next set of results. ",
"ListLicenseVersionsRequest$NextToken": " Token for the next set of results. ",
"ListLicenseVersionsResponse$NextToken": " Token for the next set of results. ",
"ListLicensesRequest$NextToken": " Token for the next set of results. ",
"ListLicensesResponse$NextToken": " Token for the next set of results. ",
"ListReceivedGrantsForOrganizationRequest$NextToken": " Token for the next set of results. ",
"ListReceivedGrantsForOrganizationResponse$NextToken": " Token for the next set of results. ",
"ListReceivedGrantsRequest$NextToken": " Token for the next set of results. ",
"ListReceivedGrantsResponse$NextToken": " Token for the next set of results. ",
"ListReceivedLicensesForOrganizationRequest$NextToken": " Token for the next set of results. ",
"ListReceivedLicensesForOrganizationResponse$NextToken": " Token for the next set of results. ",
"ListReceivedLicensesRequest$NextToken": " Token for the next set of results. ",
"ListReceivedLicensesResponse$NextToken": " Token for the next set of results. ",
"ListResourceInventoryRequest$NextToken": " Token for the next set of results. ",
"ListResourceInventoryResponse$NextToken": " Token for the next set of results. ",
"ListTagsForResourceRequest$ResourceArn": " Amazon Resource Name (ARN) of the license configuration. ",
"ListTokensRequest$NextToken": " Token for the next set of results. ",
"ListTokensResponse$NextToken": " Token for the next set of results. ",
"ListUsageForLicenseConfigurationRequest$LicenseConfigurationArn": " Amazon Resource Name (ARN) of the license configuration. ",
"ListUsageForLicenseConfigurationRequest$NextToken": " Token for the next set of results. ",
"ListUsageForLicenseConfigurationResponse$NextToken": " Token for the next set of results. ",
"MaxSize3StringList$member": null,
"Metadata$Name": " The key name. ",
"Metadata$Value": " The value. ",
"ProductInformation$ResourceType": " Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"ProductInformationFilter$ProductInformationFilterName": " Filter name. ",
"ProductInformationFilter$ProductInformationFilterComparator": " Logical operator. ",
"RejectGrantResponse$Version": " Grant version. ",
"ReportGenerator$ReportGeneratorName": " Name of the report generator. ",
"ReportGenerator$LicenseManagerReportGeneratorArn": " Amazon Resource Name (ARN) of the report generator. ",
"ReportGenerator$LastRunStatus": " Status of the last report generation attempt. ",
"ReportGenerator$LastRunFailureReason": " Failure message for the last report generation attempt. ",
"ReportGenerator$LastReportGenerationTime": " Time the last report was generated at. ",
"ReportGenerator$ReportCreatorAccount": " The Amazon Web Services account ID used to create the report generator. ",
"ReportGenerator$Description": " Description of the report generator. ",
"ReportGenerator$CreateTime": " Time the report was created. ",

"ResourceInventory$ResourceId": " ID of the resource. ",
"ResourceInventory$ResourceArn": " Amazon Resource Name (ARN) of the resource. ",
"ResourceInventory$Platform": " Platform of the resource. ",
"ResourceInventory$PlatformVersion": " Platform version of the resource in the inventory. ",
"ResourceInventory$ResourceOwningAccountId": " ID of the account that owns the resource. ",
"S3Location$bucket": " Name of the S3 bucket reports are published to. ",

"S3Location$keyPrefix": " Prefix of the S3 bucket reports are published to. ",
"StringList$member": null,
"Tag$Key": " Tag key. ",
"Tag$Value": " Tag value. ",
"TagKeyList$member": null,
"TagResourceRequest$ResourceArn": " Amazon Resource Name (ARN) of the license configuration. ",
"TokenData$TokenId": " Token ID. ",
"TokenData$TokenType": " Type of token generated. The supported value is <code>REFRESH_TOKEN</code>. ",
"TokenData$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"TokenData$Status": " Token status. The possible values are <code>AVAILABLE</code> and <code>DELETED</code>. ",
"UntagResourceRequest$ResourceArn": " Amazon Resource Name (ARN) of the license configuration. ",
"UpdateLicenseConfigurationRequest$LicenseConfigurationArn": " Amazon Resource Name (ARN) of the license configuration. ",
"UpdateLicenseConfigurationRequest$Name": " New name of the license configuration. ",
"UpdateLicenseConfigurationRequest$Description": " New description of the license configuration. ",
"UpdateLicenseManagerReportGeneratorRequest$LicenseManagerReportGeneratorArn": " Amazon Resource Name (ARN) of the report generator to update. ",
"UpdateLicenseManagerReportGeneratorRequest$Description": " Description of the report generator. ",
"UpdateLicenseSpecificationsForResourceRequest$ResourceArn": " Amazon Resource Name (ARN) of the Amazon Web Services resource. ",
"UpdateServiceSettingsRequest$S3BucketArn": " Amazon Resource Name (ARN) of the Amazon S3 bucket where the License Manager information is stored. ",
"UpdateServiceSettingsRequest$SnsTopicArn": " Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts. "
}
},
"StringList": {
"base": null,
"refs": {
"CreateLicenseConfigurationRequest$LicenseRules": " License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules vary by dimension, as follows.   <code>Cores</code> dimension: <code>allowedTenancy</code> | <code>licenseAffinityToHost</code> | <code>maximumCores</code> | <code>minimumCores</code>   <code>Instances</code> dimension: <code>allowedTenancy</code> | <code>maximumCores</code> | <code>minimumCores</code> | <code>maximumSockets</code> | <code>minimumSockets</code> | <code>maximumVcpus</code> | <code>minimumVcpus</code>   <code>Sockets</code> dimension:

<code>allowedTenancy</code> | <code>licenseAffinityToHost</code> | <code>maximumSockets</code> | <code>minimumSockets</code>   <code>vCPUs</code> dimension: <code>allowedTenancy</code> | <code>honorVcpuOptimization</code> | <code>maximumVcpus</code> | <code>minimumVcpus</code>   The unit for <code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are <code>True</code> and <code>False</code>. ",
      "GetLicenseConfigurationResponse$LicenseRules": " License rules. ",
      "LicenseConfiguration$LicenseRules": " License rules. ",
      "ListLicenseConfigurationsRequest$LicenseConfigurationArns": " Amazon Resource Names (ARN) of the license configurations. ",
      "ListTokensRequest$TokenIds": " Token IDs. ",
      "ProductInformationFilter$ProductInformationFilterValue": " Filter value. ",
      "UpdateLicenseConfigurationRequest$LicenseRules": " New license rule. The only rule that you can add after you create a license configuration is licenseAffinityToHost. "
    }
  },
  "Tag": {
    "base": " Details about a tag for a license configuration. ",
    "refs": {
      "TagList$member": null
    }
  },
  "TagKeyList": {
    "base": null,
    "refs": {
      "UntagResourceRequest$TagKeys": " Keys identifying the tags to remove. "
    }
  },
  "TagList": {
    "base": null,
    "refs": {
      "CreateLicenseConfigurationRequest$Tags": " Tags to add to the license configuration. ",
      "CreateLicenseManagerReportGeneratorRequest$Tags": " Tags to add to the report generator. ",
      "GetLicenseConfigurationResponse$Tags": " Tags for the license configuration. ",
      "ListTagsForResourceResponse$Tags": " Information about the tags. ",
      "ReportGenerator$Tags": " Tags associated with the report generator. ",
      "TagResourceRequest$Tags": " One or more tags. "
    }
  },
  "TagResourceRequest": {
    "base": null,
    "refs": {
    }
  },
  "TagResourceResponse": {
    "base": null,

"refs": {

}
},
"TokenData": {
"base": " Describes a token. ",
"refs": {
"TokenList$member": null
}
},
"TokenList": {
"base": null,
"refs": {
"ListTokensResponse$Tokens": " Received token details. "
}
},
"TokenString": {
"base": null,
"refs": {
"CreateTokenResponse$Token": " Refresh token, encoded as a JWT token. ",
"GetAccessTokenRequest$Token": " Refresh token, encoded as a JWT token. ",
"GetAccessTokenResponse$AccessToken": " Temporary access token. "
}
},
"TokenType": {
"base": null,
"refs": {
"CreateTokenResponse$TokenType": " Token type. "
}
},
"UnsupportedDigitalSignatureMethodException": {
"base": " The digital signature method is unsupported. Try your request again. ",
"refs": {
}
},
"UntagResourceRequest": {
"base": null,
"refs": {
}
},
"UntagResourceResponse":
{
"base": null,
"refs": {
}
},
"UpdateLicenseConfigurationRequest": {
"base": null,

"refs": {
}
},
"UpdateLicenseConfigurationResponse": {
"base": null,
"refs": {
}
},
"UpdateLicenseManagerReportGeneratorRequest": {
"base": null,
"refs": {
}
},
"UpdateLicenseManagerReportGeneratorResponse": {
"base": null,
"refs": {
}
},
"UpdateLicenseSpecificationsForResourceRequest": {
"base": null,
"refs": {
}
},
"UpdateLicenseSpecificationsForResourceResponse": {
"base": null,
"refs": {
}
},
"UpdateServiceSettingsRequest": {
"base": null,
"refs": {
}
},
"UpdateServiceSettingsResponse": {
"base": null,
"refs": {
}
},
"UsageOperation": {
"base": null,
"refs": {
"LicenseConversionContext$UsageOperation": " The Usage operation value
that corresponds to the license type you are converting your resource from. For more information about which
platforms correspond to which usage operation values see <a
href=\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-info-fields.html#billing-info\">Sample
data: usage operation by platform "
}
},

"ValidationException": {
"base": " The provided input is not valid. Try your request again. ",
"refs": {
}
}
}
}
{
"version": "2.0",
"service": " With License Manager, you can discover and track your commercial Linux subscriptions on running Amazon EC2 instances. ",
"operations": {
"GetServiceSettings": " Lists the Linux subscriptions service settings. ",
"ListLinuxSubscriptionInstances": " Lists the running Amazon EC2 instances that were discovered with commercial Linux subscriptions. ",
"ListLinuxSubscriptions": " Lists the Linux subscriptions that have been discovered. If you have linked your organization, the returned results will include data aggregated across your accounts in Organizations. ",
"UpdateServiceSettings": " Updates the service settings for Linux subscriptions. "
},
"shapes": {
"Boolean": {
"base": null,
"refs": {
"UpdateServiceSettingsRequest$AllowUpdate": " Describes if updates are allowed to the service settings for Linux subscriptions. If you allow updates, you can aggregate Linux subscription data in
more than one home Region. "
}
},
"BoxInteger": {
"base": null,
"refs": {
"ListLinuxSubscriptionInstancesRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListLinuxSubscriptionsRequest$MaxResults": " Maximum number of results to return in a single call. "
}
},
"BoxLong": {
"base": null,
"refs": {
"Subscription$InstanceCount": " The total amount of running instances using this subscription. "
}
},
"Filter": {
"base": " A filter object that is used to return more specific results from a describe operation. Filters can be used to match a set of resources by specific criteria. ",
"refs": {
"FilterList$member": null
}

```
  },
  "FilterList": {
    "base": null,
    "refs": {
      "ListLinuxSubscriptionInstancesRequest$Filters": "<p>An array of structures that you can use to filter the
results to those that match one
 or more sets of key-value pairs that you specify. For example, you can filter by the name of <code>AmiID</code>
with an optional operator to see subscriptions that match, partially match, or don't match a certain Amazon Machine
Image (AMI) ID.</p> <p>The valid names for this filter are:</p> <ul> <li> <p> <code>AmiID</code> </p> </li>
<li> <p> <code>InstanceID</code> </p> </li> <li> <p> <code>AccountID</code> </p> </li> <li> <p>
<code>Status</code> </p> </li> <li> <p> <code>Region</code> </p> </li> <li> <p>
<code>UsageOperation</code> </p> </li> <li> <p> <code>ProductCode</code> </p> </li> <li> <p>
<code>InstanceType</code> </p> </li> </ul> <p>The valid Operators for this filter are:</p> <ul> <li> <p>
<code>contains</code> </p> </li> <li> <p> <code>equals</code> </p> </li> <li> <p> <code>Notequal</code>
</p> </li> </ul>",
      "ListLinuxSubscriptionsRequest$Filters": "<p>An array of structures that you can use to filter the results to
those that match one or more sets of key-value
 pairs that you specify. For example, you can filter by the name of <code>Subscription</code> with an optional
operator to see subscriptions that match, partially match, or don't match a certain subscription's name.</p> <p>The
valid names for this filter are:</p> <ul> <li> <p> <code>Subscription</code> </p> </li> </ul> <p>The valid
Operators for this filter are:</p> <ul> <li> <p> <code>contains</code> </p> </li> <li> <p> <code>equals</code>
</p> </li> <li> <p> <code>Notequal</code> </p> </li> </ul>"
    }
  },
  "GetServiceSettingsRequest": {
    "base": null,
    "refs": {
    }
  },
  "GetServiceSettingsResponse": {
    "base": null,
    "refs": {
    }
  },
  "Instance": {
    "base": "<p>Details discovered information about a running instance using Linux subscriptions.</p>",
    "refs": {
      "InstanceList$member": null
    }
  },
  "InstanceList": {
    "base": null,
    "refs": {
      "ListLinuxSubscriptionInstancesResponse$Instances":
 "<p>An array that contains instance objects.</p>"
    }
  },
  "InternalServerException": {
```

"base": " An exception occurred with the service. ",
"refs": {
}
},
"LinuxSubscriptionsDiscovery": {
"base": null,
"refs": {
"GetServiceSettingsResponse$LinuxSubscriptionsDiscovery": " Lists if discovery has been enabled for Linux subscriptions. ",
"UpdateServiceSettingsRequest$LinuxSubscriptionsDiscovery": " Describes if the discovery of Linux subscriptions is enabled. ",
"UpdateServiceSettingsResponse$LinuxSubscriptionsDiscovery": " Lists if discovery has been enabled for Linux subscriptions. "
}
},
"LinuxSubscriptionsDiscoverySettings": {
"base": " Lists the settings defined for discovering Linux subscriptions. ",
"refs": {
"GetServiceSettingsResponse$LinuxSubscriptionsDiscoverySettings": " Lists the settings defined for Linux subscriptions discovery. The settings include if Organizations integration has been enabled, and which Regions data will be aggregated from. ",
"UpdateServiceSettingsRequest$LinuxSubscriptionsDiscoverySettings": " The settings defined for Linux subscriptions discovery. The settings include if Organizations integration has been enabled, and which Regions data will be aggregated from. ",
"UpdateServiceSettingsResponse$LinuxSubscriptionsDiscoverySettings": " The settings defined for Linux subscriptions discovery. The settings include if Organizations integration has been enabled, and which Regions data will be aggregated from. "
}
},
"ListLinuxSubscriptionInstancesRequest": {
"base": " NextToken length limit is half of ddb accepted limit. Increase this limit if parameters in request increases. ",
"refs": {
}
},
"ListLinuxSubscriptionInstancesRequestNextTokenString": {
"base": null,
"refs": {
"ListLinuxSubscriptionInstancesRequest$NextToken": " Token for the next set of results. "
}
},
"ListLinuxSubscriptionInstancesResponse": {
"base": null,
"refs": {
}
},
"ListLinuxSubscriptionsRequest": {

"base": " NextToken length limit is half of ddb accepted limit. Increase this limit if parameters in request increases. ",
"refs": {
}
},
"ListLinuxSubscriptionsRequestNextTokenString": {
"base": null,
"refs": {
"ListLinuxSubscriptionsRequest$NextToken": " Token for the next set of results. "
}
},
"ListLinuxSubscriptionsResponse": {
"base": null,
"refs": {
}
},
"Operator": {
"base": null,
"refs": {
"Filter$Operator": " An operator for filtering results. "
}
},
"OrganizationIntegration": {
"base": null,
"refs": {
"LinuxSubscriptionsDiscoverySettings$OrganizationIntegration": " Details if you have enabled resource discovery across
your accounts in Organizations. "
}
},
"ProductCodeList": {
"base": null,
"refs": {
"Instance$ProductCode": " The product code for the instance. For more information, see Usage operation values in the License Manager User Guide . "
}
},
"Status": {
"base": null,
"refs": {
"GetServiceSettingsResponse$Status": " Indicates the status of Linux subscriptions settings being applied. ",
"UpdateServiceSettingsResponse$Status": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"String": {

"base": null,
"refs": {
"Filter$Name": " The type of name to filter by. ",
"Instance$AccountID": " The account ID which owns the instance. ",
"Instance$AmiId": " The AMI ID used to launch the instance. ",
"Instance$InstanceID": " The instance ID of the resource. ",
"Instance$InstanceType": " The instance type of the resource. ",
"Instance$LastUpdatedTime": " The time in which the last discovery updated the instance details. ",
"Instance$Region": " The Region the instance is running in. ",
"Instance$Status": " The status of the instance. ",
"Instance$SubscriptionName": " The name of the subscription being used by the instance. ",
"Instance$UsageOperation": " The usage operation of the instance. For more information, see For more information, see Usage operation values in the License Manager User Guide. ",
"InternalServerException$message": null,
"ListLinuxSubscriptionInstancesResponse$NextToken": " Token for the next set of results. ",
"ListLinuxSubscriptionsResponse$NextToken": " Token for the next set of results. ",
"ProductCodeList$member": null,
"StringMap$key": null,
"StringMap$value": null,
"Subscription$Name": " The name of the subscription. ",
"Subscription$Type": " The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS. ",
"ThrottlingException$message": null,
"ValidationException$message": null
}
},
"StringList": {
"base": null,
"refs": {
"Filter$Values": " One or more values for the name to filter by. ",
"GetServiceSettingsResponse$HomeRegions": " The Region in which License Manager displays the aggregated data for Linux subscriptions. ",
"LinuxSubscriptionsDiscoverySettings$SourceRegions": " The Regions in which to discover data for Linux subscriptions. ",
"UpdateServiceSettingsResponse$HomeRegions": " The Region in which License Manager displays the aggregated data for Linux subscriptions. "
}
},
"StringListMemberString": {
"base": null,
"refs": {
"StringList$member": null
}
},

"StringMap": {
"base": null,
"refs": {
"GetServiceSettingsResponse$StatusMessage": " A message which details the Linux subscriptions service settings current status. ",
"UpdateServiceSettingsResponse$StatusMessage": " A message which details the Linux subscriptions service settings current status. "
}
},
"Subscription": {
"base": " An object which details a discovered Linux subscription. ",
"refs": {
"SubscriptionList$member": null
}
},
"SubscriptionList": {
"base": null,
"refs": {

"ListLinuxSubscriptionsResponse$Subscriptions": " An array that contains subscription objects. "
}
},
"ThrottlingException": {
"base": " The request was denied due to request throttling. ",
"refs": {
}
},
"UpdateServiceSettingsRequest": {
"base": null,
"refs": {
}
},
"UpdateServiceSettingsResponse": {
"base": null,
"refs": {
}
},
"ValidationException": {
"base": " The provided input is not valid. Try your request again. ",
"refs": {
}
}
}
}
{
"testCases": [
{
"documentation": "For region af-south-1 with FIPS disabled and DualStack disabled",

```
      "expect": {
        "endpoint": {
          "url": "https://license-manager.af-south-1.amazonaws.com"
        }
      },
      "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "af-south-1"
      }
    },
    {
      "documentation": "For region ap-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-east-1.amazonaws.com"
        }
      },
      "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "ap-east-1"
      }
    },
    {
      "documentation": "For region ap-northeast-1 with FIPS disabled and DualStack disabled",

"expect": {
        "endpoint": {
          "url": "https://license-manager.ap-northeast-1.amazonaws.com"
        }
      },
      "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "ap-northeast-1"
      }
    },
    {
      "documentation": "For region ap-northeast-2 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-northeast-2.amazonaws.com"
        }
      },
      "params": {
        "UseFIPS": false,
        "UseDualStack": false,
```

"Region": "ap-northeast-2"
}
},
{
"documentation": "For region ap-northeast-3 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-northeast-3.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "ap-northeast-3"
}
},
{
"documentation": "For region ap-south-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-south-1.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "ap-south-1"
}
},
{
"documentation": "For region ap-southeast-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-southeast-1.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack":
false,
"Region": "ap-southeast-1"
}
},
{
"documentation": "For region ap-southeast-2 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-southeast-2.amazonaws.com"

```
            }
        },
        "params": {
            "UseFIPS": false,
            "UseDualStack": false,
            "Region": "ap-southeast-2"
        }
    },
    {
        "documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.ap-southeast-3.amazonaws.com"
            }
        },
        "params": {
            "UseFIPS": false,
            "UseDualStack": false,
            "Region": "ap-southeast-3"
        }
    },
    {
        "documentation":
"For region ca-central-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.ca-central-1.amazonaws.com"
            }
        },
        "params": {
            "UseFIPS": false,
            "UseDualStack": false,
            "Region": "ca-central-1"
        }
    },
    {
        "documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.eu-central-1.amazonaws.com"
            }
        },
        "params": {
            "UseFIPS": false,
            "UseDualStack": false,
            "Region": "eu-central-1"
        }
    },
```

```
    {
      "documentation": "For region eu-north-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint":
{
            "url": "https://license-manager.eu-north-1.amazonaws.com"
        }
      },
      "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "eu-north-1"
      }
    },
    {
      "documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
            "url": "https://license-manager.eu-south-1.amazonaws.com"
        }
      },
      "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "eu-south-1"
      }
    },
    {
      "documentation": "For region eu-west-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
            "url": "https://license-manager.eu-west-1.amazonaws.com"
        }
      },
      "params":
{
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "eu-west-1"
      }
    },
    {
      "documentation": "For region eu-west-2 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
            "url": "https://license-manager.eu-west-2.amazonaws.com"
        }
      },
```

```
        "params": {
          "UseFIPS": false,
          "UseDualStack": false,
          "Region": "eu-west-2"
        }
      },
      {
        "documentation": "For region eu-west-3 with FIPS disabled and DualStack disabled",
        "expect": {
          "endpoint": {
            "url": "https://license-manager.eu-west-3.amazonaws.com"
          }
        },
        "params": {
          "UseFIPS": false,
          "UseDualStack": false,
          "Region": "eu-west-3"
        }

    },
      {
        "documentation": "For region me-south-1 with FIPS disabled and DualStack disabled",
        "expect": {
          "endpoint": {
            "url": "https://license-manager.me-south-1.amazonaws.com"
          }
        },
        "params": {
          "UseFIPS": false,
          "UseDualStack": false,
          "Region": "me-south-1"
        }
      },
      {
        "documentation": "For region sa-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
          "endpoint": {
            "url": "https://license-manager.sa-east-1.amazonaws.com"
          }
        },
        "params": {
          "UseFIPS": false,
          "UseDualStack": false,
          "Region": "sa-east-1"
        }
      },
      {
        "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
```

"expect": {

"endpoint": {
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        "Endpoint": "https://example.com"
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"result_key": "InstanceSummaries"
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"result_key": "ProductUserSummaries"
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"result_key": "InstanceUserSummaries"
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"type": "String"
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"required": true,
"default": false,
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"type": "Boolean"
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                      "supportsDualStack"
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            "type": "tree",
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              {
                "conditions": [],
                "endpoint": {
                  "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                   "properties": {},
                  "headers": {}
                },
                "type": "endpoint"
              }
            ]
          },
          {
            "conditions": [],
            "error": "FIPS and DualStack are enabled, but this partition does not support one or both",
            "type": "error"
```

```
                }
            ]
        },
        {
            "conditions": [
                {
                    "fn": "booleanEquals",
                    "argv": [
                        {
                            "ref": "UseFIPS"
                        },
                        true

    ]
                }
            ],
            "type": "tree",
            "rules": [
                {
                    "conditions": [
                        {
                            "fn": "booleanEquals",
                            "argv": [
                                true,
                                {
                                    "fn": "getAttr",
                                    "argv": [
                                        {
                                            "ref": "PartitionResult"
                                        },
                                        "supportsFIPS"
                                    ]
                                }
                            ]
                        }
                    ],

  "type": "tree",
                    "rules": [
                        {
                            "conditions": [],
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fips.{Region}.{PartitionResult#dnsSuffix}",
                                "properties": {},
                                "headers": {}
                            },
                            "type": "endpoint"
```

```
                }
            ]
        },
        {
            "conditions": [],
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            "type": "error"
        }
    ]
},
{
    "conditions": [
        {

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            "argv": [
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                    "ref": "UseDualStack"
                },
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                        {
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                            "argv": [
                                {
                                    "ref": "PartitionResult"
                                },

          "supportsDualStack"
                            ]
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                    ]
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            "type": "tree",
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                {
                    "conditions": [],
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"endpoint": {
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"type": "endpoint"
}
]
},
{
"conditions": [],
"error": "DualStack is enabled but this partition does not support DualStack",
"type": "error"
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"headers": {}
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"type": "endpoint"
}
]
}
]
}
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{
 "version":"2.0",
 "metadata":{
  "apiVersion":"2018-05-10",
  "endpointPrefix":"license-manager-user-subscriptions",
  "jsonVersion":"1.1",
  "protocol":"rest-json",
  "serviceFullName":"AWS License Manager User Subscriptions",
  "serviceId":"License Manager User Subscriptions",
  "signatureVersion":"v4",
  "signingName":"license-manager-user-subscriptions",
  "uid":"license-manager-user-subscriptions-2018-05-10"
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   "http":{
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    "requestUri":"/user/AssociateUser",
    "responseCode":200
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   "input":{"shape":"AssociateUserRequest"},
   "output":{"shape":"AssociateUserResponse"},
   "errors":[
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    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerException"},
    {"shape":"ResourceNotFoundException"},
     {"shape":"AccessDeniedException"}
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   "idempotent":true
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   "http":{

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"http":{
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},
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{"shape":"ValidationException"},
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{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"},
{"shape":"AccessDeniedException"}
]
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{"shape":"ValidationException"},
{"shape":"ThrottlingException"},
{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"},
{"shape":"AccessDeniedException"}
]
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      {"shape":"AccessDeniedException"}
    ]
  },
  "StopProductSubscription":{
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    "http":{
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      "requestUri":"/user/StopProductSubscription",
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    "input":{"shape":"StopProductSubscriptionRequest"},
    "output":{"shape":"StopProductSubscriptionResponse"},
    "errors":[
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      {"shape":"ValidationException"},
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      {"shape":"InternalServerException"},
      {"shape":"ResourceNotFoundException"},

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  },
  "UpdateIdentityProviderSettings":{
    "name":"UpdateIdentityProviderSettings",
    "http":{
      "method":"POST",
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    "input":{"shape":"UpdateIdentityProviderSettingsRequest"},
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    "idempotent":true
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  "exception":true
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  "members":{
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    "InstanceId",
    "Username"
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    "IdentityProvider":{"shape":"IdentityProvider"},
    "InstanceId":{"shape":"String"},
    "Username":{"shape":"String"}
  }
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"AssociateUserResponse":{
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  "box":true
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"ConflictException":{
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  "members":{
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  "fault":true
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"DeregisterIdentityProviderRequest":{
  "type":"structure",

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  "required":[
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    "Product"
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  "members":{
    "IdentityProvider":{"shape":"IdentityProvider"},
    "Product":{"shape":"String"}
  }
 },
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  "members":{
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  }
},
"DisassociateUserRequest":{
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  "required":[
    "IdentityProvider",
    "InstanceId",
    "Username"
  ],
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    "IdentityProvider":{"shape":"IdentityProvider"},
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    "Username":{"shape":"String"}
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  "members":{
    "Attribute":{"shape":"String"},
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    "Value":{"shape":"String"}
  }
},
"FilterList":{
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    "member":{"shape":"Filter"}
  },
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    "members":{
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    },
    "union":true
  },
  "IdentityProviderSummary":{
    "type":"structure",
    "required":[
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      "Product",
      "Settings",
      "Status"
    ],
    "members":{
      "FailureMessage":{"shape":"String"},
      "IdentityProvider":{"shape":"IdentityProvider"},
      "Product":{"shape":"String"},
      "Settings":{"shape":"Settings"},
      "Status":{"shape":"String"}
    }
  },
  "IdentityProviderSummaryList":{
    "type":"list",
    "member":{"shape":"IdentityProviderSummary"}
  },
  "InstanceSummary":{
    "type":"structure",
    "required":[
      "InstanceId",
      "Products",
      "Status"
    ],
    "members":{
      "InstanceId":{"shape":"String"},
      "LastStatusCheckDate":{"shape":"String"},
       "Products":{"shape":"StringList"},
      "Status":{"shape":"String"},
      "StatusMessage":{"shape":"String"}
    }
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  },
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"InstanceUserSummary":{
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    "DisassociationDate":{"shape":"String"},
    "Domain":{"shape":"String"},
    "IdentityProvider":{"shape":"IdentityProvider"},
    "InstanceId":{"shape":"String"},
    "Status":{"shape":"String"},
    "StatusMessage":{"shape":"String"},
    "Username":{"shape":"String"}
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  "fault":true
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    "NextToken":{"shape":"String"}
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  "required":["IdentityProviderSummaries"],
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    "NextToken":{"shape":"String"}
  }
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    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"}
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"ListInstancesResponse":{
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  "members":{
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    "NextToken":{"shape":"String"}
  }
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"ListProductSubscriptionsRequest":{
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    "Product"
  ],
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    "Product":{"shape":"String"}
  }
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"ListProductSubscriptionsResponse":{
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    "ProductUserSummaries":{"shape":"ProductUserSummaryList"}
  }
},
"ListUserAssociationsRequest":{
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    "InstanceId"
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    "NextToken":{"shape":"String"}
  }
```

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  },
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  "ProductUserSummary":{
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      "Product",
      "Status",
      "Username"
    ],
    "members":{
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      "IdentityProvider":{"shape":"IdentityProvider"},
      "Product":{"shape":"String"},
      "Status":{"shape":"String"},
      "StatusMessage":{"shape":"String"},
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      "SubscriptionStartDate":{"shape":"String"},
      "Username":{"shape":"String"}
    }
  },
  "ProductUserSummaryList":{
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    "member":{"shape":"ProductUserSummary"}
  },
  "RegisterIdentityProviderRequest":{
    "type":"structure",
    "required":[
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      "Product"
    ],
    "members":{
      "IdentityProvider":{"shape":"IdentityProvider"},
       "Product":{"shape":"String"},
      "Settings":{"shape":"Settings"}
    }
  },
  "RegisterIdentityProviderResponse":{
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    "members":{
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"IdentityProviderSummary":{"shape":"IdentityProviderSummary"}
}
},
"ResourceNotFoundException":{
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"senderFault":true
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"exception":true
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"SecurityGroup":{
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"max":200,
"min":5,
"pattern":"^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
},
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},
"exception":true
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"Settings":{
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"Subnets"
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"Subnets":{"shape":"SettingsSubnetsList"}
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"SettingsSubnetsList":{
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"Product",

"Username"
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"members":{
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"IdentityProvider":{"shape":"IdentityProvider"},
"Product":{"shape":"String"},
"Username":{"shape":"String"}
}
},
"StartProductSubscriptionResponse":{
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"required":["ProductUserSummary"],
"members":{
"ProductUserSummary":{"shape":"ProductUserSummary"}
}
},
"StopProductSubscriptionRequest":{
"type":"structure",
"required":[
"IdentityProvider",
"Product",
"Username"
],
"members":{
"Domain":{"shape":"String"},
"IdentityProvider":{"shape":"IdentityProvider"},
"Product":{"shape":"String"},
"Username":{"shape":"String"}
}
},
"StopProductSubscriptionResponse":{
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}
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"String":{"type":"string"},
"StringList":{
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"member":{"shape":"String"}
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"Subnet":{
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"pattern":"subnet-[a-z0-9]{8,17}"
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    "Product",
    "UpdateSettings"
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    "UpdateSettings":{"shape":"UpdateSettings"}
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"UpdateSettings":{
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  "required":[
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    "RemoveSubnets"
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  "members":{
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    "RemoveSubnets":{"shape":"Subnets"},
    "SecurityGroupId":{"shape":"SecurityGroup"}
  }
},
"ValidationException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "exception":true
}
```

}
}

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```
{
 "pagination": {
 }
}
{
  "version": "1.0",
  "parameters": {
     "Region": {
        "builtIn": "AWS::Region",
        "required": false,
        "documentation": "The AWS region used to dispatch the request.",
        "type": "String"
     },
     "UseDualStack": {
        "builtIn": "AWS::UseDualStack",
        "required": true,
        "default": false,
        "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
        "type": "Boolean"
     },
     "UseFIPS": {
        "builtIn": "AWS::UseFIPS",
        "required": true,
        "default": false,
        "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
```

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      },
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        "documentation": "Override the endpoint used to send this request",
        "type": "String"
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            "argv": [
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              }
            ]
          }
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        "rules": [
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            "conditions": [
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                "fn": "booleanEquals",
                "argv": [
                  {
                    "ref": "UseFIPS"
                  },
                  true
                ]
              }
            ],
            "error": "Invalid Configuration: FIPS and custom
endpoint are not supported",
            "type": "error"
          },
          {
            "conditions": [],
            "type": "tree",
            "rules": [
              {
                "conditions": [
                  {
                    "fn": "booleanEquals",
```

```
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                    "ref": "UseDualStack"
                  },
                  true
                ]
              }
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            "type": "error"
          },
          {
            "conditions": [],

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      }
    ]
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              }
            ]
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                        "ref": "Region"
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                            },

true
                        ]
                    },
                    {
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                        "argv": [
                            {
                                "ref": "UseDualStack"
                            },
                            true
                        ]
                    }
                ],
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                "rules": [
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                        "conditions": [
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    true,
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                                        "fn": "getAttr",
                                        "argv": [
                                            {
                                                "ref": "PartitionResult"
                                            },
                                            "supportsFIPS"
                                        ]
```

```
                    }
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            },
            {
                "fn": "booleanEquals",
                "argv": [

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                    {
                        "fn": "getAttr",
                        "argv": [
                            {
                                "ref": "PartitionResult"
                            },
                            "supportsDualStack"
                        ]
                    }
                ]
            }
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        "rules": [
            {

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                "type": "tree",
                "rules": [
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                        "conditions": [],
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fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                            "properties": {},
                            "headers": {}
                        },
                        "type": "endpoint"
                    }
                ]

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        ]
    },
    {
        "conditions": [],
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both",
        "type": "error"
    }
```

```
                ]
            },
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                "conditions": [
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                        "fn": "booleanEquals",
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                                "argv": [
                                    true,
                                    {
                                        "fn": "getAttr",
                                        "argv": [
                                            {
                                                "ref": "PartitionResult"

},
                                            "supportsFIPS"
                                        ]
                                    }
                                ]
                            }
                        ],
                        "type": "tree",
                        "rules": [
                            {
                                "conditions": [],
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                                    {
                                        "conditions": [],
                                        "endpoint": {
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"https://license-manager-fips.{Region}.{PartitionResult#dnsSuffix}",
                                            "properties": {},
```

```
                    "headers": {}
                },
                "type": "endpoint"
            }
        ]
    }
  ]
},
{
  "conditions": [],
  "error": "FIPS is enabled but this partition does not support FIPS",
  "type": "error"
}
]

},
{
  "conditions": [
    {
      "fn": "booleanEquals",
      "argv": [
        {
          "ref": "UseDualStack"
        },
        true
      ]
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  ],
  "type": "tree",
  "rules": [
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv":
[
            true,
            {
              "fn": "getAttr",
              "argv": [
                {
                  "ref": "PartitionResult"
                },
                "supportsDualStack"
              ]
            }
          ]
        }
```

```
                    ],
                    "type": "tree",
                    "rules": [

            {
                        "conditions": [],
                        "type": "tree",
                        "rules": [
                          {
                            "conditions": [],
                            "endpoint": {
                              "url": "https://license-
manager.{Region}.{PartitionResult#dualStackDnsSuffix}",
                              "properties": {},
                              "headers": {}
                            },
                            "type": "endpoint"
                          }
                        ]

                    }
                      ]
                    },
                    {
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                },
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                         "properties": {},
                        "headers": {}
                      },
                      "type": "endpoint"
                    }
                  ]
                }
              ]
            }
          ]
```

```
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            {
                "conditions": [],
                "error": "Invalid Configuration: Missing Region",
                "type": "error"
            }
        ]
    }
  ]
}
```


1.4457 bash 5.2.15-2+b7

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lib/krb5/kdb/kdb_hdr.h
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lib/libgss/g_seal.c
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lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c

lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
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lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
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lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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```
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// +build go1.18

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package fake

import (
 "context"
 "errors"
 "fmt"
 azfake "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake/server"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
 "net/http"
 "net/url"
 "regexp"
)
```

```
// LicensesServer is a fake server for instances of the armhybridcompute.LicensesClient type.
type LicensesServer struct {
 // BeginCreateOrUpdate is the fake for method LicensesClient.BeginCreateOrUpdate
 // HTTP status codes to indicate success:
 http.StatusOK
 BeginCreateOrUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
armhybridcompute.License, options *armhybridcompute.LicensesClientBeginCreateOrUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse], errResp
azfake.ErrorResponder)

 // BeginDelete is the fake for method LicensesClient.BeginDelete
 // HTTP status codes to indicate success: http.StatusOK, http.StatusNoContent
 BeginDelete func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientBeginDeleteOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse], errResp azfake.ErrorResponder)

 // Get is the fake for method LicensesClient.Get
 // HTTP status codes to indicate success: http.StatusOK
 Get func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientGetOptions) (resp
azfake.Responder[armhybridcompute.LicensesClientGetResponse],
 errResp azfake.ErrorResponder)

 // NewListByResourceGroupPager is the fake for method LicensesClient.NewListByResourceGroupPager
 // HTTP status codes to indicate success: http.StatusOK
 NewListByResourceGroupPager func(resourceGroupName string, options
*armhybridcompute.LicensesClientListByResourceGroupOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse])

 // NewListBySubscriptionPager is the fake for method LicensesClient.NewListBySubscriptionPager
 // HTTP status codes to indicate success: http.StatusOK
 NewListBySubscriptionPager func(options *armhybridcompute.LicensesClientListBySubscriptionOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse])

 // BeginUpdate is the fake for method LicensesClient.BeginUpdate
 // HTTP status codes to indicate success: http.StatusOK
 BeginUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
 armhybridcompute.LicenseUpdate, options *armhybridcompute.LicensesClientBeginUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse], errResp azfake.ErrorResponder)

 // BeginValidateLicense is the fake for method LicensesClient.BeginValidateLicense
 // HTTP status codes to indicate success: http.StatusOK
 BeginValidateLicense func(ctx context.Context, parameters armhybridcompute.License, options
*armhybridcompute.LicensesClientBeginValidateLicenseOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse], errResp
azfake.ErrorResponder)
}
```

```
// NewLicensesServerTransport creates a new instance of LicensesServerTransport with the provided
implementation.
// The returned LicensesServerTransport instance is connected to an instance of armhybridcompute.LicensesClient
via the
// azcore.ClientOptions.Transporter field in the client's constructor parameters.
func NewLicensesServerTransport(srv *LicensesServer) *LicensesServerTransport
 {
 return &LicensesServerTransport{
  srv:                    srv,
  beginCreateOrUpdate:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]](),
  beginDelete:              newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]](),
  newListByResourceGroupPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]](),
  newListBySubscriptionPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]](),
  beginUpdate:              newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]](),
  beginValidateLicense:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse]](),
 }
}

// LicensesServerTransport connects instances of armhybridcompute.LicensesClient to instances of LicensesServer.
// Don't use this type directly, use NewLicensesServerTransport
 instead.
type LicensesServerTransport struct {
 srv                    *LicensesServer
 beginCreateOrUpdate
*tracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]]
 beginDelete              *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]]
 newListByResourceGroupPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]]
 newListBySubscriptionPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]]
 beginUpdate              *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]]
 beginValidateLicense
*tracker[azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse]]
}

// Do implements the policy.Transporter interface for LicensesServerTransport.
func (l *LicensesServerTransport) Do(req *http.Request) (*http.Response, error) {
 rawMethod := req.Context().Value(runtime.CtxAPINameKey{})
 method,
 ok := rawMethod.(string)
 if !ok {
  return nil, nonRetriableError{errors.New("unable to dispatch request, missing value for CtxAPINameKey")}
 }
```

```
 var resp *http.Response
 var err error

 switch method {
 case "LicensesClient.BeginCreateOrUpdate":
  resp, err = l.dispatchBeginCreateOrUpdate(req)
 case "LicensesClient.BeginDelete":
  resp, err = l.dispatchBeginDelete(req)
 case "LicensesClient.Get":
  resp, err = l.dispatchGet(req)
 case "LicensesClient.NewListByResourceGroupPager":
  resp, err = l.dispatchNewListByResourceGroupPager(req)
 case "LicensesClient.NewListBySubscriptionPager":
  resp, err = l.dispatchNewListBySubscriptionPager(req)
 case "LicensesClient.BeginUpdate":
  resp, err = l.dispatchBeginUpdate(req)
 case "LicensesClient.BeginValidateLicense":
  resp, err = l.dispatchBeginValidateLicense(req)
 default:
  err = fmt.Errorf("unhandled API %s", method)
 }

 if err != nil {
  return nil, err
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginCreateOrUpdate(req
 *http.Request) (*http.Response, error) {
 if l.srv.BeginCreateOrUpdate == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginCreateOrUpdate not implemented")}
 }
 beginCreateOrUpdate := l.beginCreateOrUpdate.get(req)
 if beginCreateOrUpdate == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body, err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
  if err != nil {
   return nil, err
```

```
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return
 nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginCreateOrUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body,
nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginCreateOrUpdate = &respr
  l.beginCreateOrUpdate.add(req, beginCreateOrUpdate)
 }

 resp, err := server.PollerResponderNext(beginCreateOrUpdate, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.beginCreateOrUpdate.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginCreateOrUpdate) {
  l.beginCreateOrUpdate.remove(req)
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginDelete(req *http.Request) (*http.Response, error) {
 if l.srv.BeginDelete
 == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginDelete not implemented")}
 }
 beginDelete := l.beginDelete.get(req)
 if beginDelete == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
```

```
 if matches == nil || len(matches) < 3 {
  return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
 if err != nil {
  return nil, err
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
 if err != nil {
  return nil, err
 }
 respr, errRespr := l.srv.BeginDelete(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
 if
respErr := server.GetError(errRespr, req); respErr != nil {
  return nil, respErr
 }
 beginDelete = &respr
 l.beginDelete.add(req, beginDelete)
 }

 resp, err := server.PollerResponderNext(beginDelete, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK, http.StatusNoContent}, resp.StatusCode) {
  l.beginDelete.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK,
http.StatusNoContent", resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginDelete) {
  l.beginDelete.remove(req)
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchGet(req *http.Request) (*http.Response, error) {
 if l.srv.Get == nil {
  return nil, &nonRetriableError{errors.New("fake for method Get not implemented")}
 }
 const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
 regex
 := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 3 {
```

```
 return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
 if err != nil {
  return nil, err
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
 if err != nil {
  return nil, err
 }
 respr, errRespr := l.srv.Get(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
 if respErr := server.GetError(errRespr, req); respErr != nil {
  return nil, respErr
 }
 respContent := server.GetResponseContent(respr)
 if !contains([]int{http.StatusOK}, respContent.HTTPStatus) {
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
respContent.HTTPStatus)}
 }
 resp, err := server.MarshalResponseAsJSON(respContent,
 server.GetResponse(respr).License, req)
 if err != nil {
  return nil, err
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListByResourceGroupPager(req *http.Request) (*http.Response,
error) {
 if l.srv.NewListByResourceGroupPager == nil {
  return nil, &nonRetriableError{errors.New("fake for method NewListByResourceGroupPager not implemented")}
 }
 newListByResourceGroupPager := l.newListByResourceGroupPager.get(req)
 if newListByResourceGroupPager == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 2 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if
 err != nil {
   return nil, err
  }
  resp := l.srv.NewListByResourceGroupPager(resourceGroupNameParam, nil)
```

```
  newListByResourceGroupPager = &resp
  l.newListByResourceGroupPager.add(req, newListByResourceGroupPager)
  server.PagerResponderInjectNextLinks(newListByResourceGroupPager, req, func(page
*armhybridcompute.LicensesClientListByResourceGroupResponse, createLink func() string) {
   page.NextLink = to.Ptr(createLink())
  })
 }
 resp, err := server.PagerResponderNext(newListByResourceGroupPager, req)
 if err != nil {
  return nil, err
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.newListByResourceGroupPager.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PagerResponderMore(newListByResourceGroupPager) {
  l.newListByResourceGroupPager.remove(req)
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListBySubscriptionPager(req *http.Request)
 (*http.Response, error) {
 if l.srv.NewListBySubscriptionPager == nil {
  return nil, &nonRetriableError{errors.New("fake for method NewListBySubscriptionPager not implemented")}
 }
 newListBySubscriptionPager := l.newListBySubscriptionPager.get(req)
 if newListBySubscriptionPager == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 1 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resp := l.srv.NewListBySubscriptionPager(nil)
  newListBySubscriptionPager = &resp
  l.newListBySubscriptionPager.add(req, newListBySubscriptionPager)
  server.PagerResponderInjectNextLinks(newListBySubscriptionPager, req, func(page
*armhybridcompute.LicensesClientListBySubscriptionResponse, createLink func() string) {
   page.NextLink = to.Ptr(createLink())
  })
 }
 resp,
 err := server.PagerResponderNext(newListBySubscriptionPager, req)
 if err != nil {
  return nil, err
```

```
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.newListBySubscriptionPager.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PagerResponderMore(newListBySubscriptionPager) {
  l.newListBySubscriptionPager.remove(req)
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginUpdate(req *http.Request) (*http.Response, error) {
 if l.srv.BeginUpdate == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginUpdate not implemented")}
 }
 beginUpdate := l.beginUpdate.get(req)
 if beginUpdate == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex
 := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body, err := server.UnmarshalRequestAsJSON[armhybridcompute.LicenseUpdate](req)
  if err != nil {
   return nil, err
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body, nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginUpdate = &respr
  l.beginUpdate.add(req, beginUpdate)
 }

 resp, err := server.PollerResponderNext(beginUpdate, req)
```

```
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK},
 resp.StatusCode) {
  l.beginUpdate.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginUpdate) {
  l.beginUpdate.remove(req)
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginValidateLicense(req *http.Request) (*http.Response, error) {
 if l.srv.BeginValidateLicense == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginValidateLicense not implemented")}
 }
 beginValidateLicense := l.beginValidateLicense.get(req)
 if beginValidateLicense == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/validateLicense`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 1 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body,
 err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginValidateLicense(req.Context(), body, nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginValidateLicense = &respr
  l.beginValidateLicense.add(req, beginValidateLicense)
 }

 resp, err := server.PollerResponderNext(beginValidateLicense, req)
 if err != nil {
  return nil, err
 }
```

```
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.beginValidateLicense.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginValidateLicense) {
  l.beginValidateLicense.remove(req)
 }

 return resp, nil
}
```

azwebpubsub

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```
//go:build go1.18
// +build go1.18

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```

```
// Code generated by Microsoft (R) AutoRest Code Generator. DO NOT EDIT.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.

package armhybridcompute

import (
 "context"
 "errors"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/arm"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/policy"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "net/http"
 "net/url"
 "strings"
)

// LicensesClient contains the methods for the Licenses group.
// Don't use this type directly, use NewLicensesClient() instead.
type LicensesClient struct {
 internal       *arm.Client
 subscriptionID string
}

// NewLicensesClient creates a new instance of LicensesClient with the specified values.
//   - subscriptionID - The ID of the target
 subscription.
//   - credential - used to authorize requests. Usually a credential from azidentity.
//   - options - pass nil to accept the default values.
func NewLicensesClient(subscriptionID string, credential azcore.TokenCredential, options *arm.ClientOptions)
(*LicensesClient, error) {
 cl, err := arm.NewClient(moduleName, moduleVersion, credential, options)
 if err != nil {
  return nil, err
 }
 client := &LicensesClient{
  subscriptionID: subscriptionID,
  internal:       cl,
 }
 return client, nil
}

// BeginCreateOrUpdate - The operation to create or update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
```

```
//   - parameters - Parameters supplied to the Create license operation.
//   - options - LicensesClientBeginCreateOrUpdateOptions contains the optional parameters
 for the LicensesClient.BeginCreateOrUpdate
//     method.
func (client *LicensesClient) BeginCreateOrUpdate(ctx context.Context, resourceGroupName string, licenseName
string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions)
(*runtime.Poller[LicensesClientCreateOrUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.createOrUpdate(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// CreateOrUpdate - The operation to create or update a license.
// If the
 operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
func (client *LicensesClient) createOrUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginCreateOrUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.createOrUpdateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
```

```
 }
 return httpResp, nil
}

// createOrUpdateCreateRequest creates
 the CreateOrUpdate request.
func (client *LicensesClient) createOrUpdateCreateRequest(ctx context.Context, resourceGroupName string,
licenseName string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*policy.Request,
error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx,
 http.MethodPut, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}

// BeginDelete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientBeginDeleteOptions contains the optional parameters for the
LicensesClient.BeginDelete method.
func (client *LicensesClient) BeginDelete(ctx context.Context, resourceGroupName string, licenseName string,
```

```
options *LicensesClientBeginDeleteOptions) (*runtime.Poller[LicensesClientDeleteResponse],
 error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.deleteOperation(ctx, resourceGroupName, licenseName, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientDeleteResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientDeleteResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// Delete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
func (client *LicensesClient) deleteOperation(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*http.Response, error) {
 var err error
 const
 operationName = "LicensesClient.BeginDelete"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.deleteCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK, http.StatusNoContent) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// deleteCreateRequest creates the Delete request.
```

```
func (client *LicensesClient) deleteCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientBeginDeleteOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if
 client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodDelete, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// Get - Retrieves information about the view of a license.
//
 If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientGetOptions contains the optional parameters for the LicensesClient.Get method.
func (client *LicensesClient) Get(ctx context.Context, resourceGroupName string, licenseName string, options
*LicensesClientGetOptions) (LicensesClientGetResponse, error) {
 var err error
 const operationName = "LicensesClient.Get"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.getCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return LicensesClientGetResponse{}, err
 }
```

```
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil
 {
  return LicensesClientGetResponse{}, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return LicensesClientGetResponse{}, err
 }
 resp, err := client.getHandleResponse(httpResp)
 return resp, err
}

// getCreateRequest creates the Get request.
func (client *LicensesClient) getCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientGetOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if
 licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// getHandleResponse handles the Get response.
func (client *LicensesClient) getHandleResponse(resp *http.Response) (LicensesClientGetResponse, error) {
 result := LicensesClientGetResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.License); err != nil {
  return LicensesClientGetResponse{}, err
```

```
 }
 return result, nil
}

// NewListByResourceGroupPager - The operation to get all licenses of a non-Azure machine
//
// Generated from
 API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - options - LicensesClientListByResourceGroupOptions contains the optional parameters for the
LicensesClient.NewListByResourceGroupPager
//     method.
func (client *LicensesClient) NewListByResourceGroupPager(resourceGroupName string, options
*LicensesClientListByResourceGroupOptions) *runtime.Pager[LicensesClientListByResourceGroupResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListByResourceGroupResponse]{
  More: func(page LicensesClientListByResourceGroupResponse) bool {
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
  Fetcher: func(ctx context.Context, page *LicensesClientListByResourceGroupResponse)
(LicensesClientListByResourceGroupResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListByResourceGroupPager")
   nextLink := ""
   if page != nil {
    nextLink = *page.NextLink
   }
   resp,
 err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
    return client.listByResourceGroupCreateRequest(ctx, resourceGroupName, options)
   }, nil)
   if err != nil {
    return LicensesClientListByResourceGroupResponse{}, err
   }
   return client.listByResourceGroupHandleResponse(resp)
  },
  Tracer: client.internal.Tracer(),
 })
}

// listByResourceGroupCreateRequest creates the ListByResourceGroup request.
func (client *LicensesClient) listByResourceGroupCreateRequest(ctx context.Context, resourceGroupName string,
options *LicensesClientListByResourceGroupOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es"
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
```

```
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if
 client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// listByResourceGroupHandleResponse handles the ListByResourceGroup response.
func (client *LicensesClient) listByResourceGroupHandleResponse(resp *http.Response)
(LicensesClientListByResourceGroupResponse, error) {
 result := LicensesClientListByResourceGroupResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListByResourceGroupResponse{}, err
 }
 return
 result, nil
}

// NewListBySubscriptionPager - The operation to get all licenses of a non-Azure machine
//
// Generated from API version 2023-06-20-preview
//   - options - LicensesClientListBySubscriptionOptions contains the optional parameters for the
LicensesClient.NewListBySubscriptionPager
//     method.
func (client *LicensesClient) NewListBySubscriptionPager(options *LicensesClientListBySubscriptionOptions)
*runtime.Pager[LicensesClientListBySubscriptionResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListBySubscriptionResponse]{
  More: func(page LicensesClientListBySubscriptionResponse) bool {
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
  Fetcher: func(ctx context.Context, page *LicensesClientListBySubscriptionResponse)
(LicensesClientListBySubscriptionResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListBySubscriptionPager")
   nextLink := ""
   if page != nil {
    nextLink = *page.NextLink
   }
   resp,
```

```
 err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
    return client.listBySubscriptionCreateRequest(ctx, options)
   }, nil)
   if err != nil {
    return LicensesClientListBySubscriptionResponse{}, err
   }
   return client.listBySubscriptionHandleResponse(resp)
  },
  Tracer: client.internal.Tracer(),
 })
}

// listBySubscriptionCreateRequest creates the ListBySubscription request.
func (client *LicensesClient) listBySubscriptionCreateRequest(ctx context.Context, options
*LicensesClientListBySubscriptionOptions) (*policy.Request, error) {
 urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/licenses"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet,
 runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// listBySubscriptionHandleResponse handles the ListBySubscription response.
func (client *LicensesClient) listBySubscriptionHandleResponse(resp *http.Response)
(LicensesClientListBySubscriptionResponse, error) {
 result := LicensesClientListBySubscriptionResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListBySubscriptionResponse{}, err
 }
 return result, nil
}

// BeginUpdate - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
```

```
//   - licenseName
 - The name of the license.
//   - parameters - Parameters supplied to the Update license operation.
//   - options - LicensesClientBeginUpdateOptions contains the optional parameters for the
LicensesClient.BeginUpdate method.
func (client *LicensesClient) BeginUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions)
(*runtime.Poller[LicensesClientUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.update(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientUpdateResponse]{
   Tracer:
 client.internal.Tracer(),
  })
 }
}

// Update - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
func (client *LicensesClient) update(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.updateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
```

```
 return
 nil, err
 }
 return httpResp, nil
}

// updateCreateRequest creates the Update request.
func (client *LicensesClient) updateCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}",
 url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodPatch, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}

// BeginValidateLicense - The operation to validate a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - parameters - Parameters supplied to the license validation operation.
//   - options - LicensesClientBeginValidateLicenseOptions contains the optional parameters for the
LicensesClient.BeginValidateLicense
//     method.
func (client *LicensesClient) BeginValidateLicense(ctx context.Context, parameters License, options
```

```
*LicensesClientBeginValidateLicenseOptions)
 (*runtime.Poller[LicensesClientValidateLicenseResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.validateLicense(ctx, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientValidateLicenseResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientValidateLicenseResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// ValidateLicense - The operation to validate a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
func (client *LicensesClient) validateLicense(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions)
 (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginValidateLicense"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.validateLicenseCreateRequest(ctx, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// validateLicenseCreateRequest creates the ValidateLicense request.
```

```
func (client *LicensesClient) validateLicenseCreateRequest(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions) (*policy.Request, error) {
 urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/validateLicense"
 if client.subscriptionID
 == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodPost, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}
```

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//go:build go1.18
// +build go1.18

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package armhybridcompute_test

import (
 "context"
 "log"

 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/azidentity"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
)

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_ValidateLicense.json
func ExampleLicensesClient_BeginValidateLicense() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err !=
 nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginValidateLicense(ctx, armhybridcompute.License{
  Location: to.Ptr("eastus2euap"),
  Properties: &armhybridcompute.LicenseProperties{
   LicenseDetails: &armhybridcompute.LicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors: to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
```

```
   Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
  },
  LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 },
}, nil)
if err != nil {
 log.Fatalf("failed to finish the request: %v", err)
}
res, err := poller.PollUntilDone(ctx, nil)
if err !=
nil {
 log.Fatalf("failed to pull the result: %v", err)
}
// You could use response here. We use blank identifier for just demo purposes.
_ = res
// If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
// res.License = armhybridcompute.License{
//  Name: to.Ptr("{licenseName}"),
//  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
//  ID: to.Ptr("/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/Licenses/{licenseName}"),
//  Location: to.Ptr("eastus2euap"),
//  Properties: &armhybridcompute.LicenseProperties{
//   LicenseDetails: &armhybridcompute.LicenseDetails{
//    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
//    AssignedLicenses: to.Ptr[int32](2),
//    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
//    ImmutableID: to.Ptr("<generated Guid>"),
//    Processors: to.Ptr[int32](6),
//
   State: to.Ptr(armhybridcompute.LicenseStateActivated),
//    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
//   },
//   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
//   TenantID: to.Ptr("{tenandId}"),
//  },
// }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_CreateOrUpdate.json
func ExampleLicensesClient_BeginCreateOrUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
```

```
clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
if err != nil {
 log.Fatalf("failed to create client: %v", err)
}
poller, err := clientFactory.NewLicensesClient().BeginCreateOrUpdate(ctx, "myResourceGroup",
"{licenseName}", armhybridcompute.License{
 Location: to.Ptr("eastus2euap"),
 Properties: &armhybridcompute.LicenseProperties{
  LicenseDetails: &armhybridcompute.LicenseDetails{
   Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
   Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
   Processors: to.Ptr[int32](6),
   State:      to.Ptr(armhybridcompute.LicenseStateActivated),
   Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
  },
  LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 },
}, nil)
if err != nil {
 log.Fatalf("failed to finish the request: %v", err)
}
res, err := poller.PollUntilDone(ctx, nil)
if err != nil {
 log.Fatalf("failed to pull the result: %v", err)
}
// You could use response here. We use blank identifier for just demo purposes.
_ = res
// If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values
in the output are fake values for just demo purposes.
// res.License = armhybridcompute.License{
//  Name: to.Ptr("{licenseName}"),
//  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
//  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
//  Location: to.Ptr("eastus2euap"),
//  Properties: &armhybridcompute.LicenseProperties{
//   LicenseDetails: &armhybridcompute.LicenseDetails{
//    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
//    AssignedLicenses: to.Ptr[int32](2),
//    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
//    ImmutableID: to.Ptr("<generated Guid>"),
//    Processors: to.Ptr[int32](6),
//    State: to.Ptr(armhybridcompute.LicenseStateActivated),
//    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
//   },
//   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
```

```
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated
 from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_Update.json
func ExampleLicensesClient_BeginUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginUpdate(ctx, "myResourceGroup", "{licenseName}",
armhybridcompute.LicenseUpdate{
  Properties: &armhybridcompute.LicenseUpdateProperties{
   LicenseDetails: &armhybridcompute.LicenseUpdatePropertiesLicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors:
 to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
```

```
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/lic
enses/{licenseName}"),
 //
  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](8),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_Get.json
func ExampleLicensesClient_Get() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if
 err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 res, err := clientFactory.NewLicensesClient().Get(ctx, "myResourceGroup", "{licenseName}", nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
```

```
//
 Location: to.Ptr("eastus2euap"),
//  Properties: &armhybridcompute.LicenseProperties{
//   LicenseDetails: &armhybridcompute.LicenseDetails{
//    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
//    AssignedLicenses: to.Ptr[int32](8),
//    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
//    ImmutableID: to.Ptr("<generated Guid>"),
//    Processors: to.Ptr[int32](6),
//    State: to.Ptr(armhybridcompute.LicenseStateActivated),
//    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
//   },
//   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
//   TenantID: to.Ptr("{tenandId}"),
//  },
// }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_Delete.json
func ExampleLicensesClient_BeginDelete()
 {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginDelete(ctx, "myResourceGroup", "{licenseName}", nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 _, err = poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-
preview/examples/license/License_ListByResourceGroup.json
func ExampleLicensesClient_NewListByResourceGroupPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
```

```
 if
 err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 pager := clientFactory.NewLicensesClient().NewListByResourceGroupPager("myResourceGroup", nil)
 for pager.More() {
  page, err := pager.NextPage(ctx)
  if err != nil {
   log.Fatalf("failed to advance page: %v", err)
  }
  for _, v := range page.Value {
   // You could use page here. We use blank identifier for just demo purposes.
   _ = v
  }
  // If the HTTP response code is 200 as defined in example definition, your page structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
  // page.LicensesListResult = armhybridcompute.LicensesListResult{
  //  Value: []*armhybridcompute.License{
  //   {
  //    Name: to.Ptr("{licenseName}"),
  //
   Type: to.Ptr("Microsoft.HybridCompute/licenses"),
  //    ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
  //    Location: to.Ptr("eastus2euap"),
  //    Properties: &armhybridcompute.LicenseProperties{
  //     LicenseDetails: &armhybridcompute.LicenseDetails{
  //      Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
  //      AssignedLicenses: to.Ptr[int32](8),
  //      Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
  //      ImmutableID: to.Ptr("<generated Guid>"),
  //      Processors: to.Ptr[int32](6),
  //      State: to.Ptr(armhybridcompute.LicenseStateActivated),
  //      Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
  //     },
  //     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  //     TenantID: to.Ptr("{tenandId}"),
  //    },
  //  }},
  // }
 }
}
```

```
// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-
preview/examples/license/License_ListBySubscription.json
func
 ExampleLicensesClient_NewListBySubscriptionPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 pager := clientFactory.NewLicensesClient().NewListBySubscriptionPager(nil)
 for pager.More() {
  page, err := pager.NextPage(ctx)
  if err != nil {
   log.Fatalf("failed to advance page: %v", err)
  }
  for _, v := range page.Value {
   // You could use page here. We use blank identifier for just demo purposes.
   _ = v
  }
  // If the HTTP response code is 200 as defined in example definition, your page structure would look as
 follows. Please pay attention that all the values in the output are fake values for just demo purposes.
  // page.LicensesListResult = armhybridcompute.LicensesListResult{
  //  Value: []*armhybridcompute.License{
  //   {
  //    Name: to.Ptr("{licenseName}"),
  //    Type: to.Ptr("Microsoft.HybridCompute/licenses"),
  //    ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
  //    Location: to.Ptr("eastus2euap"),
  //    Properties: &armhybridcompute.LicenseProperties{
  //     LicenseDetails: &armhybridcompute.LicenseDetails{
  //      Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
  //      AssignedLicenses: to.Ptr[int32](8),
  //      Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
  //      ImmutableID: to.Ptr("<generated Guid>"),
  //      Processors: to.Ptr[int32](6),
  //      State: to.Ptr(armhybridcompute.LicenseStateActivated),
  //      Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
  //
```

```
    },
  //     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  //     TenantID: to.Ptr("{tenandId}"),
  //    },
  //  }},
  // }
 }
}
```

1.4465 github.com/code-hex/go-generics-cache 1.5.1

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1.4466 libjitterentropy 3.5.0

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* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/reader/impl/completer/SystemCompleter.java
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* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/reader/impl/completer/AggregateCompleter.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/reader/impl/DefaultExpander.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/reader/Binding.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/reader/Macro.java

*
/opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/utils/ExecHelper.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/terminal/impl/exec/ExecPty.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/utils/Levenshtein.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/reader/Widget.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/terminal/impl/MouseSupport.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/utils/DiffHelper.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/reader/impl/UndoTree.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/terminal/Attributes.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/utils/ClosedException.java
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/opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/reader/impl/completer/NullCompleter.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/utils/ShutdownHooks.java
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/opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/utils/WCWidth.java
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* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/terminal/impl/jna/win/WindowsAnsiWriter.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/reader/Reference.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/terminal/impl/NativeSignalHandler.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/terminal/spi/Pty.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/utils/AttributedString.java
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#
class = org.jline.terminal.impl.ffm.FfmTerminalProvider

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* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/utils/StyleResolver.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/style/Styler.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/terminal/impl/ExternalTerminal.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/builtins/NfaMatcher.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/builtins/InputRC.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/terminal/impl/DumbTerminal.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/reader/impl/completer/FileNameCompleter.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/terminal/impl/PosixSysTerminal.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/utils/Colors.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/utils/Timeout.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/reader/ParsedLine.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/reader/CompletingParsedLine.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/style/StyleFactory.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/utils/NonBlocking.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/keymap/BindingReader.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/terminal/Size.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/utils/AttributedStringBuilder.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/reader/impl/KillRing.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/utils/NonBlockingInputStream.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/reader/MaskingCallback.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/utils/Curses.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/terminal/impl/LineDisciplineTerminal.java

* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/reader/History.java
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 /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/terminal/impl/PosixPtyTerminal.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/terminal/impl/jna/win/Kernel32.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/reader/Completer.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/style/StyleExpression.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/utils/NonBlockingReader.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/utils/NonBlockingReaderImpl.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/style/StyleSource.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/utils/NonBlockingInputStreamImpl.java
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#
class = org.jline.terminal.impl.jansi.JansiTerminalProvider
```

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* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/reader/impl/completer/StringsCompleter.java
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* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/reader/Candidate.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/utils/Status.java
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* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/terminal/spi/TerminalExt.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/terminal/impl/jansi/win/WindowsSupport.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/reader/EOFError.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/reader/SyntaxError.java
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* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/terminal/impl/AbstractWindowsTerminal.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/builtins/Commands.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/widget/TailTipWidgets.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/widget/Widgets.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-

jar/org/jline/console/ConsoleEngine.java
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 /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/reader/LineReader.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/reader/impl/LineReaderImpl.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/builtins/Less.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/console/impl/SystemRegistryImpl.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/builtins/SyntaxHighlighter.java
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* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/builtins/ScreenTerminal.java
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Found in path(s):
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/jansi/AnsiMode.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/jansi/AnsiColors.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/jansi/AnsiRenderer.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/jansi/AnsiType.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/jansi/io/WindowsAnsiProcessor.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/nativ/Kernel32.java
*
 /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/jansi/io/ColorsAnsiProcessor.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/jansi/io/FastBufferedOutputStream.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/jansi/AnsiPrintStream.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/jansi/Ansi.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/nativ/CLibrary.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/utils/FastBufferedOutputStream.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/jansi/AnsiMain.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/jansi/io/AnsiProcessor.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/jansi/WindowsSupport.java
*
 /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/jansi/io/Colors.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/jansi/io/AnsiOutputStream.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/terminal/impl/ffm/Kernel32.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/jansi/AnsiConsole.java
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```

auto_left_margin, bw, bw
auto_right_margin, am, am
back_color_erase, bce, ut
can_change, ccc, cc
ceol_standout_glitch, xhp, xs
col_addr_glitch, xhpa, YA
cpi_changes_res, cpix, YF
cr_cancels_micro_mode, crxm, YB
dest_tabs_magic_smso, xt, xt
eat_newline_glitch, xenl, xn
erase_overstrike, eo, eo
generic_type, gn, gn
hard_copy, hc, hc
hard_cursor, chts, HC

has_meta_key, km, km
has_print_wheel, daisy, YC
has_status_line, hs, hs
hue_lightness_saturation, hls, hl
insert_null_glitch, in, in
lpi_changes_res, lpix, YG
memory_above, da, da
memory_below, db, db
move_insert_mode, mir, mi
move_standout_mode, msgr, ms
needs_xon_xoff, nxon, nx
no_esc_ctlc, xsb, xb
no_pad_char, npc,
NP
non_dest_scroll_region, ndscr, ND
non_rev_rmcup, nrrmc, NR
over_strike, os, os
prtr_silent, mc5i, 5i
row_addr_glitch, xvpa, YD
semi_auto_right_margin, sam, YE
status_line_esc_ok, eslok, es
tilde_glitch, hz, hz
transparent_underline, ul, ul
xon_xoff, xon, xo
columns, cols, co
init_tabs, it, it
label_height, lh, lh
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magic_cookie_glitch, xmc, sg
max_attributes, ma, ma
max_colors, colors, Co
max_pairs, pairs, pa
maximum_windows, wnum, MW
no_color_video, ncv, NC
num_labels, nlab, Nl
padding_baud_rate, pb, pb
virtual_terminal, vt, vt
width_status_line, wsl, ws
bit_image_entwining, bitwin, Yo
bit_image_type, bitype, Yp
buffer_capacity, bufsz, Ya
buttons, btns, BT
dot_horz_spacing, spinh, Yc
dot_vert_spacing, spinv, Yb
max_micro_address, maddr, Yd
max_micro_jump, mjump, Ye

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micro_line_size, mls, Yg
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output_res_char, orc, Yi
output_res_horz_inch, orhi, Yk
output_res_line, orl, Yj
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orvi, Yl
print_rate, cps, Ym
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acs_chars, acsc, ac
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bell, bel, bl
carriage_return, cr, cr
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change_res_vert, cvr, ZD
change_scroll_region, csr, cs
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clear_all_tabs, tbc, ct
clear_margins, mgc, MC
clear_screen, clear, cl
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clr_eol, el, ce
clr_eos, ed, cd
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cursor_home, home, ho
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cursor_mem_address, mrcup, CM
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cursor_right, cuf1, nd
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delete_character, dch1, dc
delete_line, dl1, dl
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dis_status_line, dsl, ds
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enter_am_mode, smam,
SA
enter_blink_mode, blink, mb
enter_bold_mode, bold, md
enter_ca_mode, smcup, ti
enter_delete_mode, smdc, dm
enter_dim_mode, dim, mh
enter_doublewide_mode, swidm, ZF
enter_draft_quality, sdrfq, ZG
enter_insert_mode, smir, im
enter_italics_mode, sitm, ZH
enter_leftward_mode, slm, ZI
enter_micro_mode, smicm, ZJ
enter_near_letter_quality, snlq, ZK
enter_normal_quality, snrmq, ZL
enter_protected_mode, prot, mp
enter_reverse_mode, rev, mr
enter_secure_mode, invis, mk
enter_shadow_mode, sshm, ZM
enter_standout_mode, smso, so
enter_subscript_mode, ssubm, ZN
enter_superscript_mode, ssupm, ZO
enter_underline_mode, smul, us
enter_upward_mode, sum, ZP
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exit_am_mode, rmam, RA
exit_attribute_mode, sgr0, me
exit_ca_mode, rmcup, te
exit_delete_mode, rmdc, ed
exit_doublewide_mode, rwidm, ZQ
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exit_leftward_mode, rlm, ZS
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initialize_color, initc, Ic
initialize_pair, initp, Ip
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insert_line, il1, al
insert_padding, ip, ip
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key_refresh, krfr, &2
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key_restart, krst, &4
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key_save, ksav, &6
key_sbeg, kBEG, &9
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key_sleft, kLFT, #4
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kMSG, %a
key_smove, kMOV, %b
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key_sprint, kPRT, %f
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key_sredo, kRDO, %g
key_sreplace, kRPL, %h
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key_stab, khts, kT
key_sundo, kUND, !3
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keypad_local, rmkx, ke
keypad_xmit, smkx, ks
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lab_f1, lf1, l1
lab_f10, lf10, la
lab_f2, lf2, l2
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lab_f5, lf5, l5
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lab_f7, lf7, l7
lab_f8, lf8, l8
lab_f9, lf9, l9
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label_off, rmln, LF
label_on, smln, LO
meta_off, rmm, mo
meta_on, smm, mm
micro_column_address, mhpa, ZY
micro_down, mcud1, ZZ
micro_left, mcub1, Za
micro_right, mcuf1, Zb
micro_row_address, mvpa, Zc
micro_up, mcuu1, Zd
newline, nel, nw

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orig_colors, oc, oc
orig_pair, op, op
pad_char, pad, pc
parm_dch, dch, DC
parm_delete_line, dl, DL
parm_down_cursor, cud, DO
parm_down_micro,
mcud, Zf
parm_ich, ich, IC
parm_index, indn, SF
parm_insert_line, il, AL
parm_left_cursor, cub, LE
parm_left_micro, mcub, Zg
parm_right_cursor, cuf, RI
parm_right_micro, mcuf, Zh
parm_rindex, rin, SR
parm_up_cursor, cuu, UP
parm_up_micro, mcuu, Zi
pkey_key, pfkey, pk
pkey_local, pfloc, pl
pkey_xmit, pfx, px
plab_norm, pln, pn
print_screen, mc0, ps
prtr_non, mc5p, pO
prtr_off, mc4, pf
prtr_on, mc5, po
pulse, pulse, PU
quick_dial, qdial, QD
remove_clock, rmclk, RC
repeat_char, rep, rp
req_for_input, rfi, RF
reset_1string, rs1, r1
reset_2string, rs2, r2
reset_3string, rs3, r3
reset_file, rf, rf
restore_cursor, rc, rc
row_address, vpa, cv
save_cursor, sc, sc
scroll_forward, ind, sf
scroll_reverse, ri, sr
select_char_set, scs, Zj
set_attributes, sgr, sa
set_background, setb, Sb
set_bottom_margin, smgb, Zk
set_bottom_margin_parm, smgbp, Zl
set_clock, sclk, SC
set_color_pair, scp, sp

set_foreground, setf, Sf
set_left_margin, smgl, ML
set_left_margin_parm, smglp, Zm
set_right_margin,
smgr, MR
set_right_margin_parm, smgrp, Zn
set_tab, hts, st
set_top_margin, smgt, Zo
set_top_margin_parm, smgtp, Zp
set_window, wind, wi
start_bit_image, sbim, Zq
start_char_set_def, scsd, Zr
stop_bit_image, rbim, Zs
stop_char_set_def, rcsd, Zt
subscript_characters, subcs, Zu
superscript_characters, supcs, Zv
tab, ht, ta
these_cause_cr, docr, Zw
to_status_line, tsl, ts
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underline_char, uc, uc
up_half_line, hu, hu
user0, u0, u0
user1, u1, u1
user2, u2, u2
user3, u3, u3
user4, u4, u4
user5, u5, u5
user6, u6, u6
user7, u7, u7
user8, u8, u8
user9, u9, u9
wait_tone, wait, WA
xoff_character, xoffc, XF
xon_character, xonc, XN
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pc_term_options, pctrm, S6
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set1_des_seq, s1ds, s1
set2_des_seq, s2ds, s2
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set_a_background, setab, AB
set_a_foreground, setaf, AF
set_color_band, setcolor, Yz
set_lr_margin, smglr, ML
set_page_length, slines, YZ
set_tb_margin, smgtb, MT
enter_horizontal_hl_mode, ehhlm, Xh
enter_left_hl_mode, elhlm, Xl
enter_low_hl_mode, elohlm, Xo
enter_right_hl_mode, erhlm, Xr
enter_top_hl_mode, ethlm, Xt
enter_vertical_hl_mode, evhlm, Xv
set_a_attributes, sgr1, sA
set_pglen_inch, slength, sL

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* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/console/Printer.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-

jar/org/jline/console/impl/SystemHighlighter.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/builtins/Source.java
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* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/reader/Buffer.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-
jar/org/jline/style/NopStyleSource.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-
jar/org/jline/builtins/ssh/ShellFactoryImpl.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/style/StyleColor.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-
jar/org/jline/terminal/impl/jansi/win/JansiWinConsoleWriter.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/style/StyleResolver.java
*
 /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-
jar/org/jline/builtins/ssh/ShellCommand.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-
jar/org/jline/terminal/impl/jni/freebsd/FreeBsdNativePty.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-
jar/org/jline/utils/WriterOutputStream.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-
jar/org/jline/builtins/telnet/Telnet.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-
jar/org/jline/terminal/impl/jansi/osx/OsXNativePty.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-
jar/org/jline/terminal/impl/jna/win/JnaWinConsoleWriter.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-
jar/org/jline/style/StyleBundleInvocationHandler.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-
jar/org/jline/style/MemoryStyleSource.java
*
 /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-
jar/org/jline/terminal/impl/jansi/linux/LinuxNativePty.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/builtins/ssh/Ssh.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-
jar/org/jline/terminal/impl/jansi/solaris/SolarisNativePty.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/style/StyleBundle.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-

jar/org/jline/terminal/impl/jni/linux/LinuxNativePty.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/reader/impl/SimpleMaskingCallback.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/terminal/impl/jni/solaris/SolarisNativePty.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/reader/impl/BufferImpl.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/utils/NonBlockingPumpReader.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/utils/NonBlockingPumpInputStream.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/terminal/impl/jansi/freebsd/FreeBsdNativePty.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/terminal/impl/AbstractWindowsConsoleWriter.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/style/StyledWriter.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/terminal/impl/jni/win/NativeWinConsoleWriter.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/style/InterpolationHelper.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/utils/PumpReader.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/terminal/impl/jni/osx/OsXNativePty.java
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jar/org/jline/builtins/telnet/ConnectionListener.java
*
 /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-
jar/org/jline/builtins/telnet/ConnectionFilter.java
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#
class = org.jline.terminal.impl.jni.JniTerminalProvider

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* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/META-
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* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-
jar/org/jline/terminal/impl/ffm/WindowsAnsiWriter.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-
jar/org/jline/terminal/impl/ffm/CLibrary.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-
jar/org/jline/terminal/impl/ffm/FfmTerminalProvider.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-
jar/org/jline/terminal/impl/ffm/NativeWinSysTerminal.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-
jar/org/jline/terminal/impl/ffm/NativeWinConsoleWriter.java

* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/terminal/impl/ffm/FfmNativePty.java
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* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/utils/AnsiWriter.java
* /opt/cola/permits/2079037376_1720305076.4725325/0/jline-3-26-1-sources-jar/org/jline/terminal/impl/jni/win/WindowsAnsiWriter.java

1.4468 msgpack 1.0.8

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1.4498 glob 10.4.5

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1.4500 aws-sdk-go-v2 v1.30.1

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```
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
```

```
        ref: ${{ github.base_ref }}
    - name: Checkout this ref
      uses: actions/checkout@v2
      with:
        path: new-ref
        fetch-depth: 0
    - name: Get Diff
      run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
    - name: Get Target Files
      run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
    - name: Checkout scancode
      uses: actions/checkout@v2
      with:
        repository: nexB/scancode-toolkit
        path: scancode-toolkit
        fetch-depth: 1
    - name: Set up Python ${{ matrix.python-version }}
       uses: actions/setup-python@v2
      with:
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
CreateLicense
 Initialize stack step
  RegisterServiceMetadata
  legacyEndpointContextSetter
  SetLogger
  OperationInputValidation
 Serialize stack step
  setOperationInput
  ResolveEndpoint
  OperationSerializer
 Build stack step
  ClientRequestID
  ComputeContentLength
```

UserAgent
AddTimeOffsetMiddleware
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger
ListReceivedLicenses
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
AddTimeOffsetMiddleware
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing

Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger


```
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
      "type": "integer"
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
      "type": "long"
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
      "type": "structure",
      "members": {
        "Name": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The type of name to filter by.</p>"
          }
        },
        "Values": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
          "traits": {
            "smithy.api#documentation": "<p>One or more values for the name to filter by.</p>"
          }
        },
        "Operator": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
          "traits": {
            "smithy.api#documentation": "<p>An operator for filtering results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>A filter object that is used to return more specific results from a describe
operation.\n      Filters can be used to match a set of resources by specific criteria.</p>"
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
      "type": "list",
```

```
        "member": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
        },
        "output": {

          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the Linux subscriptions service settings.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/GetServiceSettings"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest":
{
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "LinuxSubscriptionsDiscovery": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
                "traits": {
                    "smithy.api#documentation": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
                }
            },
```

"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " Lists the settings defined for Linux subscriptions discovery. The settings include if\n Organizations integration has been enabled, and
which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation": " A message which details the Linux subscriptions service settings current status. "
}
},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Region in which License Manager displays
the aggregated data for Linux\n subscriptions. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
"type": "structure",
"members": {
"AmiId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The AMI ID used to launch the instance. "
}
},
"InstanceID": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The instance ID of the resource. "
}
},
"InstanceType": {
"target": "smithy.api#String",

"traits": {
"smithy.api#documentation": " The instance type of the resource. "
}

},
"AccountID": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The account ID which owns the instance. "
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of the instance. "
}
},
"Region": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The Region the instance is running in. "
}
},
"UsageOperation": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The usage operation of the instance. For more information, see For more information, see\n Usage\n operation values in the License Manager User Guide. "
}
},
"ProductCode": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",
"traits": {
"smithy.api#documentation": " The product code for the instance. For more information, see Usage\n operation values in the License Manager User Guide . "
}
},
"LastUpdatedTime": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The time in which the last discovery updated the instance details. "
}
},
"SubscriptionName": {

"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the subscription being used by the instance. "
}
}
},
"traits": {
"smithy.api#documentation": " Details discovered information about a running instance using Linux subscriptions. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " An exception occurred with the service. ",
"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
"type": "service",
"version": "2018-05-10",
"operations": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
}
],

"traits": {
"aws.api#service": {
"sdkId": "License Manager Linux Subscriptions",
"arnNamespace": "license-manager-linux-subscriptions",
"cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
},
"aws.auth#sigv4": {
"name": "license-manager-linux-subscriptions"
},
"aws.protocols#restJson1": {},
"smithy.api#cors": {
"additionalAllowedHeaders": [
"*",
"content-type",
"x-amz-content-sha256",
"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",
"x-api-key",
"authorization",
"x-amz-date",

"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"
]
},
"smithy.api#documentation": " With License Manager, you can discover and track your commercial Linux subscriptions on running\n Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager Linux Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {

"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",

"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}
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"fn": "isSet",
"argv": [
{
"ref": "Endpoint"
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"rules": [
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{
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},
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```
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                {

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                "type": "error"
            },
            {
                "conditions": [],

  "endpoint": {
                    "url": {
                        "ref": "Endpoint"
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                    "properties": {},
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                },
                "type": "endpoint"
            }
        ]
    }
  ]
},
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  "rules": [
    {
        "conditions": [
            {
```

"fn": "isSet",

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}
]
}
],
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],

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"supportsDualStack"
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"conditions": [],
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"url": "https://license-manager-linux-subscriptions-fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
}
]

},
{
"conditions": [],
"error": "FIPS and DualStack are enabled, but this partition does not support one or both",
"type": "error"
}
]
},
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
{

"ref": "UseFIPS"
},
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]
}
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"rules": [
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"conditions": [
{
"fn": "booleanEquals",
"argv": [
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{
"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
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"supportsFIPS"
]
}
]
}
],
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"rules": [
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"conditions": [],
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"rules": [
{
"conditions": [],
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"properties": {},
"headers": {}

},
"type": "endpoint"
}
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}
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},
{
"conditions": []
"error": "FIPS is enabled but this partition does not support FIPS",
"type": "error"
}
]

},
{
"conditions": [
{
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"argv": [
{
"ref": "UseDualStack"
},
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]
}
],

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                    "type": "tree",
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                          "argv": [
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                            {
                              "fn": "getAttr",
                              "argv": [
                                {
                                  "ref": "PartitionResult"
                                },
                                "supportsDualStack"
                              ]
                            }
                          ]
                        }
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                          "rules": [
                            {
                              "conditions": [],

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subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                "properties": {},
                                "headers": {}
                              },
                              "type": "endpoint"
                            }
                          ]
                        }
                      ]
                    },

        {
                      "conditions": [],
                      "error": "DualStack is enabled but this partition does not support DualStack",
                      "type": "error"
                    }
```

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                "conditions": [],
                "type": "tree",
                "rules": [
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                            "properties": {},
                            "headers": {}
                        },
                        "type": "endpoint"
                    }
                ]
            }
        ]
    }
  ]
},
{
  "conditions": [],
  "error": "Invalid Configuration: Missing Region",
  "type": "error"
}
]
}
]
},
"smithy.rules#endpointTests": {
  "testCases": [
    {
      "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
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"expect": {

"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
}
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"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
}
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{
"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {

"url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",

"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint":
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"url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {

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                "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
            }
        },
        "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": true,
            "UseDualStack": true
        }
    },
    {
        "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.amazonaws.com"
            }
        },
        "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": true,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
        "expect": {
            "endpoint":
{
                "url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
            }
        },
        "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": false,
            "UseDualStack": true
        }
    },
    {
        "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
            }
        },
        "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
```

```
        },
        {
          "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
          "expect": {
            "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
          },
          "params": {
            "Region": "us-iso-east-1",
            "UseFIPS": true,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
             }
          },
          "params": {
            "Region": "us-iso-east-1",
            "UseFIPS": true,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
          "expect": {
            "error": "DualStack is enabled but this partition does not support DualStack"
          },
          "params": {
            "Region": "us-iso-east-1",
            "UseFIPS": false,
            "UseDualStack": true
          }
        },
        {

"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
            }
          },
          "params": {
            "Region": "us-iso-east-1",
            "UseFIPS": false,
            "UseDualStack": false
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            }
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            "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
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            },
            "params": {

          "Region": "us-isob-east-1",
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                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
                }
            },
            "params": {
                "Region": "us-isob-east-1",
                "UseFIPS": true,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-isob-east-1 with FIPS disabled
and DualStack enabled",
            "expect": {
                "error": "DualStack is enabled but this partition does not support DualStack"
            },
            "params": {
                "Region": "us-isob-east-1",
                "UseFIPS": false,
                "UseDualStack": true
            }
        },
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            "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
                }
            },
            "params": {
                "Region": "us-isob-east-1",
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"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
"expect": {
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"url": "https://example.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",

"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,

"Endpoint": "https://example.com"
}
},
{

"documentation": "For custom endpoint with fips disabled and dualstack enabled",
"expect": {
"error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true,
"Endpoint": "https://example.com"
}
},
{
"documentation": "Missing region",
"expect": {
"error": "Invalid Configuration: Missing Region"
}

}
],
"version": "1.0"
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "Enabled",
"value": "Enabled",
"documentation": "Enabled LinuxSubscriptionsDiscovery"
},
{
"name": "Disabled",
"value": "Disabled",
"documentation": "Disabled LinuxSubscriptionsDiscovery"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
"type": "structure",
"members": {
"SourceRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Regions in which to discover data for Linux subscriptions. ",

"smithy.api#required": {}
}
},
"OrganizationIntegration": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
"traits": {
"smithy.api#documentation": " Details if you have enabled resource discovery across your accounts in Organizations. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Lists the settings defined for discovering Linux subscriptions. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the running Amazon EC2 instances that were discovered with commercial Linux\n subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/ListLinuxSubscriptionInstances"
},
"smithy.api#idempotent": {},
"smithy.api#paginated": {
"inputToken": "NextToken",

"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "Instances"
}
}
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"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest": {
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. For example, you can filter by the name of\n <code>AmiID</code> with an optional operator to see subscriptions that match, partially\n match, or don't match a certain Amazon Machine Image (AMI) ID. \n The valid names for this filter are: \n \n \n \n <code>AmiID</code>\n \n \n \n \n <code>InstanceID</code>\n \n \n \n \n <code>AccountID</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n <code>Region</code>\n \n \n \n \n <code>UsageOperation</code>\n \n \n \n \n <code>ProductCode</code>\n \n \n \n \n <code>InstanceType</code>\n \n \n \n The valid Operators for this filter are: \n \n \n \n <code>contains</code>\n \n \n \n \n <code>equals</code>\n \n \n \n \n <code>Notequal</code>\n \n \n "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "

}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. ",
"smithy.api#length": {
"min": 1,
"max": 16384
}
}
}
},
"traits": {

"smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if parameters in request increases."
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
"type": "structure",
"members": {
"Instances": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
"traits": {
"smithy.api#documentation": " An array that contains instance objects. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the Linux subscriptions that have been discovered. If you have linked your\n organization, the returned results will include data aggregated across your accounts in\n Organizations. ",
"smithy.api#http": {
"code": 200,
"method": "POST",

"uri": "/subscription/ListLinuxSubscriptions"
},
"smithy.api#idempotent": {},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "Subscriptions"
}

}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. For example, you can filter by the name of\n <code>Subscription</code> with an optional operator to see subscriptions that match,\n partially match, or don't match a certain subscription's name. \n The valid names for this filter are: \n \n \n \n <code>Subscription</code>\n \n \n \n The valid Operators for this filter are: \n \n \n \n <code>contains</code>\n \n \n \n \n <code>equals</code>\n \n \n \n \n <code>Notequal</code>\n \n \n "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. ",
"smithy.api#length": {

"min": 1,
"max": 16384
}
}
}
},
"traits": {

"smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if parameters in request increases."
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
"type": "structure",
"members": {
"Subscriptions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
"traits": {
"smithy.api#documentation": " An array that contains subscription objects. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "EQUAL",
"value": "Equal",
"documentation": "Equal operator"
},
{
"name": "NOT_EQUAL",
"value": "NotEqual",
"documentation": "Not equal operator"
},
{
"name": "CONTAINS",
"value": "Contains",
"documentation": "Contains operator"
}
],
"smithy.api#length": {
"min": 1,
"max": 20
}
}
},

"com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration": {
    "type": "string",
    "traits": {
      "smithy.api#enum": [
        {
          "name": "Enabled",
          "value": "Enabled",
          "documentation": "Enabled OrganizationIntegration"
        },
        {
          "name": "Disabled",
          "value": "Disabled",
          "documentation": "Disabled OrganizationIntegration"
        }
      ]
    }
  },
  "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
    "type": "list",
    "member": {
      "target": "smithy.api#String"
    }
  },
  "com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
    "type": "string",
    "traits": {
      "smithy.api#enum": [

{
          "name": "InProgress",
          "value": "InProgress",
          "documentation": "InProgress status"
        },
        {
          "name": "Completed",
          "value": "Completed",
          "documentation": "Completed status"
        },
        {
          "name": "Successful",
          "value": "Successful",
          "documentation": "Successful status"
        },
        {
          "name": "Failed",
          "value": "Failed",
          "documentation": "Failed status"

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            }
          ]
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
        "type": "list",
        "member": {
          "target": "smithy.api#String",
          "traits":
{
            "smithy.api#length": {
              "min": 1,
              "max": 100
            }
          }
        },
        "traits": {
          "smithy.api#length": {
            "min": 1,
            "max": 100
          },
          "smithy.api#uniqueItems": {}
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
        "type": "map",
        "key": {
          "target": "smithy.api#String"
        },
        "value": {
          "target": "smithy.api#String"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
        "type": "structure",
        "members": {
          "Name": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of the subscription.</p>"

        }
          },
          "Type": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The type of subscription. The type can be subscription-included
with Amazon EC2, Bring Your Own\n      Subscription model (BYOS), or from the Amazon Web Services
```

Marketplace. Certain subscriptions may use licensing from the\n Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS. "
}
},
"InstanceCount": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
"traits": {
"smithy.api#documentation": " The total amount of running instances using this subscription. "
}
}
},
"traits": {
"smithy.api#documentation": " An object which details a discovered Linux subscription. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request was denied due to request throttling. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
},

"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates the service settings for Linux subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/UpdateServiceSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest":
{
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Describes if the discovery of Linux subscriptions is enabled. ",
"smithy.api#required": {}
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The
settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated
from. ",

"smithy.api#required": {}
}
},
"AllowUpdate": {
"target": "smithy.api#Boolean",
"traits": {
"smithy.api#documentation": " Describes if updates are allowed to the service settings for Linux
subscriptions. If you\n allow updates, you can aggregate Linux subscription data in more than one home
Region. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {

"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},

"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation": " A message which details the Linux subscriptions service settings current status. "
}
},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Region in which License Manager displays the aggregated data for Linux\n subscriptions. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {

```
            "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",
            "smithy.api#error": "client"
          }
        }
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
//
// If the account that created the license is the same that is performing the
// check out, you must specify the account as the beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 //
 Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType
```

```
 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the checkout license.
 LicenseArn
 *string
```

```
 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack,
 options); err != nil {
  return err
 }
 if err = addClientRequestID(stack); err != nil {
  return err
 }
 if err = addComputeContentLength(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = addComputePayloadSHA256(stack); err != nil {
```

```
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addTimeOffsetBuild(stack, c); err != nil {
 return err
}
if err = addUserAgentRetryMode(stack,
options); err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
```

```
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {
```

```
// License beneficiary.
//
// This member is required.
Beneficiary *string

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
//
//
This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional
// configuration for workloads running with continuous connectivity. Choose a
// borrow configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string
```

```
 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity *types.DatetimeRange

 // Information about
 the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if
```

```
err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = addClientRequestID(stack); err != nil {
 return err
}
if err = addComputeContentLength(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addComputePayloadSHA256(stack); err != nil {
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return
err
}
if err = addTimeOffsetBuild(stack, c); err != nil {
 return err
}
if err = addUserAgentRetryMode(stack, options); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName:
 "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
```

```
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 //
 The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
```

```
err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "DisassociateLicense");
err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = addClientRequestID(stack); err != nil {
 return err
}
if err = addComputeContentLength(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addComputePayloadSHA256(stack); err != nil {
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil
```

```
 {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addTimeOffsetBuild(stack, c); err != nil {
  return err
 }
 if err = addUserAgentRetryMode(stack, options); err != nil {
  return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata
 {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "DisassociateLicense",
 }
}
CheckoutLicense
 Initialize stack step
```

RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
AddTimeOffsetMiddleware
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger
DisassociateLicense
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent

AddTimeOffsetMiddleware
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger
CheckoutBorrowLicense
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
AddTimeOffsetMiddleware
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing

Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger
AssociateLicense
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
AddTimeOffsetMiddleware
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //   - ProductSKU
 //
 //   - Status
 //
 //
   - Fingerprint
 //
 //   - IssuerName
 //
 //   - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string
```

```
 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{},
 middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = addClientRequestID(stack); err != nil {
```

```
 return err
}
if err = addComputeContentLength(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addComputePayloadSHA256(stack); err != nil {
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err
= smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addTimeOffsetBuild(stack, c); err != nil {
 return err
}
if err = addUserAgentRetryMode(stack, options); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "ListReceivedLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
```

```
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version *string

 noSmithyDocumentSerde
}

type
 GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
```

```
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = addClientRequestID(stack); err
!= nil {
 return err
}
if err = addComputeContentLength(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addComputePayloadSHA256(stack); err != nil {
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addTimeOffsetBuild(stack, c); err != nil {
 return err
}
if err = addUserAgentRetryMode(stack, options); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack);
err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
```

```
err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "GetLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. To upgrade, you must use
// ENTERPRISE for the licenseType , and pass in a valid Grafana Labs token for the
// grafanaToken . Upgrading to Grafana Enterprise incurs additional fees. For more
// information, see [Upgrade a workspace to Grafana Enterprise].
//
// [Upgrade a workspace to Grafana Enterprise]: https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html
```

```
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx,
 "AssociateLicense", params, optFns, c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // Amazon Managed Grafana workspaces no longer support Grafana Enterprise free
 // trials.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 // A token from Grafana Labs that ties your Amazon Web Services account with a
 // Grafana Labs account. For more information, see [Link your account with Grafana Labs].
 //
 // [Link your account with Grafana Labs]: https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-
Grafana-Enterprise.html#AMG-workspace-register-enterprise
 GrafanaToken *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput
 struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
```

```
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack,
 options); err != nil {
  return err
 }
 if err = addClientRequestID(stack); err != nil {
  return err
 }
 if err = addComputeContentLength(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = addComputePayloadSHA256(stack); err != nil {
  return err
 }
 if err = addRetry(stack, options); err != nil {
  return err
 }
 if err = addRawResponseToMetadata(stack); err != nil {
  return err
```

```
 }
 if err = addRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addTimeOffsetBuild(stack, c); err != nil {
  return err
 }
 if err = addUserAgentRetryMode(stack,
 options); err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}
```

```
func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "AssociateLicense",
 }
}
ListLicenses
 Initialize stack step
  RegisterServiceMetadata
  legacyEndpointContextSetter
  SetLogger
 Serialize stack step
  setOperationInput
  ResolveEndpoint
  OperationSerializer
 Build stack step
  ClientRequestID
  ComputeContentLength
  UserAgent
  AddTimeOffsetMiddleware
  RecursionDetection
 Finalize stack step
  ResolveAuthScheme
  GetIdentity
  ResolveEndpointV2
  disableHTTPS
  ComputePayloadHash
  Retry
  RetryMetricsHeader
  setLegacyContextSigningOptions
  Signing
 Deserialize stack step
  AddRawResponseToMetadata
  ErrorCloseResponseBody
  CloseResponseBody
  ResponseErrorWrapper
  RequestIDRetriever
  OperationDeserializer
  AddTimeOffsetMiddleware
  RecordResponseTiming
  RequestResponseLogger
AWS SDK for Go
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// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the license.
 //
 // This member is required.
 SourceVersion
 *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
```

```
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err !=
 nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = addClientRequestID(stack); err != nil {
  return err
 }
 if err = addComputeContentLength(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = addComputePayloadSHA256(stack); err != nil {
  return err
 }
 if err = addRetry(stack, options); err != nil {
  return err
```

```
 }
 if err = addRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = addRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addTimeOffsetBuild(stack, c); err != nil
 {
  return err
 }
 if err = addUserAgentRetryMode(stack, options); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
```

```
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "DeleteLicense",
 }
}
DeleteLicense
 Initialize stack step
  RegisterServiceMetadata
  legacyEndpointContextSetter
  SetLogger
  OperationInputValidation
 Serialize stack step
  setOperationInput
  ResolveEndpoint
  OperationSerializer
 Build stack step
  ClientRequestID
  ComputeContentLength
  UserAgent
  AddTimeOffsetMiddleware
  RecursionDetection
 Finalize stack step
  ResolveAuthScheme
  GetIdentity
  ResolveEndpointV2
  disableHTTPS
  ComputePayloadHash
  Retry
  RetryMetricsHeader
  setLegacyContextSigningOptions
  Signing
 Deserialize stack step
  AddRawResponseToMetadata
  ErrorCloseResponseBody
  CloseResponseBody
  ResponseErrorWrapper
  RequestIDRetriever
  OperationDeserializer
  AddTimeOffsetMiddleware
  RecordResponseTiming
  RequestResponseLogger
GetLicense
 Initialize stack step
```

```
  RegisterServiceMetadata
  legacyEndpointContextSetter
  SetLogger
  OperationInputValidation
 Serialize stack step
  setOperationInput
  ResolveEndpoint
  OperationSerializer
 Build stack step
  ClientRequestID
  ComputeContentLength
  UserAgent
  AddTimeOffsetMiddleware
  RecursionDetection
 Finalize stack step
  ResolveAuthScheme
  GetIdentity
  ResolveEndpointV2
  disableHTTPS
  ComputePayloadHash
  Retry
  RetryMetricsHeader
  setLegacyContextSigningOptions
  Signing
 Deserialize stack step
  AddRawResponseToMetadata
  ErrorCloseResponseBody
  CloseResponseBody
  ResponseErrorWrapper
  RequestIDRetriever
  OperationDeserializer
  AddTimeOffsetMiddleware
  RecordResponseTiming
  RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
```

```
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 //
 the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see [RFC 7518 Digital Signature with RSASSA-PSS].
 //
 // [RFC 7518 Digital Signature with RSASSA-PSS]: https://tools.ietf.org/html/rfc7518#section-3.5
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata
```

```
 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
```

```
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
if err != nil {
 return
err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutBorrowLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = addClientRequestID(stack); err != nil {
 return err
}
if err = addComputeContentLength(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addComputePayloadSHA256(stack); err != nil {
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return
err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addTimeOffsetBuild(stack, c); err != nil {
  return err
 }
 if err = addUserAgentRetryMode(stack, options); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutBorrowLicense",
 }
}
```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
```

```
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary *string

 noSmithyDocumentSerde
}

type
 CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = addClientRequestID(stack); err != nil {
  return err
 }
```

```
if
err = addComputeContentLength(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addComputePayloadSHA256(stack); err != nil {
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addTimeOffsetBuild(stack, c); err != nil {
 return err
}
if err = addUserAgentRetryMode(stack, options); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil
{
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRecursionDetection(stack); err != nil {
 return err
}
```

```
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "CheckInLicense",
 }
}
```

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```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
```

```
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //   - Beneficiary
 //
 //   - ProductSKU
 //
 //   - Fingerprint
 //
 //   - Status
 Filters
 []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
```

```
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack,
 options, "ListLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = addClientRequestID(stack); err != nil {
  return err
 }
 if err = addComputeContentLength(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
```

```
 if err = addComputePayloadSHA256(stack); err != nil {
  return err
 }
 if err = addRetry(stack, options); err != nil {
  return err
 }
 if err = addRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = addRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addTimeOffsetBuild(stack, c); err != nil {
  return err
 }
 if err = addUserAgentRetryMode(stack, options); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
```

```
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:
    ServiceID,
  OperationName: "ListLicenses",
 }
}
CheckInLicense
 Initialize stack step
  RegisterServiceMetadata
  legacyEndpointContextSetter
  SetLogger
  OperationInputValidation
 Serialize stack step
  setOperationInput
  ResolveEndpoint
  OperationSerializer
 Build stack step
  ClientRequestID
  ComputeContentLength
  UserAgent
  AddTimeOffsetMiddleware
  RecursionDetection
 Finalize stack step
  ResolveAuthScheme
  GetIdentity
  ResolveEndpointV2
  disableHTTPS
  ComputePayloadHash
  Retry
  RetryMetricsHeader
  setLegacyContextSigningOptions
  Signing
 Deserialize stack step
  AddRawResponseToMetadata
  ErrorCloseResponseBody
  CloseResponseBody
  ResponseErrorWrapper
  RequestIDRetriever
  OperationDeserializer
  AddTimeOffsetMiddleware
  RecordResponseTiming
```

RequestResponseLogger


```
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException": {
      "type": "structure",
      "members": {
        "message": {
          "target": "smithy.api#String"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>You don't have sufficient access to perform this action.</p>",
        "smithy.api#error": "client"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
      "type": "structure",
      "members": {
        "DirectoryId": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The directory ID for an Active Directory identity provider.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation":
"<p>Details about an Active Directory identity provider.</p>"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUser": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Associates the user to an EC2 instance to utilize user-based
subscriptions.</p>\n        <note>\n            <p>Your estimated bill for charges on the number of users and related
costs will take 48\n        hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing
status) in Amazon Web Services Billing. For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n
        monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n        </note>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/AssociateUser"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the
EC2 instance, which provides user-based subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
```

"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " The identity provider of the user. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse": {
"type": "structure",
"members": {
"InstanceUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#BoxInteger": {
"type": "integer"
},
"com.amazonaws.licensemanagerusersubscriptions#ConflictException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request couldn't be completed because it conflicted with the current state of the\n resource. ",
"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest"
},

```
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deregisters the identity provider from providing user-based
subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/DeregisterIdentityProvider"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest": {
        "type": "structure",
        "members": {
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Product": {
```

```
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse": {
    "type": "structure",
    "members": {
        "IdentityProviderSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
            "traits": {
                "smithy.api#documentation":
"<p>Metadata that describes the results of an identity provider operation.</p>",
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUser": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
         },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
```

```
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Disassociates the user from an EC2 instance providing user-based
subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/DisassociateUser"
            },
            "smithy.api#idempotent": {}
        }

    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation":
 "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
```

```
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse": {
        "type": "structure",
        "members": {
            "InstanceUserSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },

"com.amazonaws.licensemanagerusersubscriptions#Filter": {
        "type": "structure",
        "members": {
            "Attribute": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of an attribute to use as a filter.</p>"
                }
            },
            "Operation": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The type of search (For example, eq, geq, leq)</p>"
                }
            },
            "Value": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Value of the filter.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A filter name and value pair that is used
to return more specific results from a describe\n      operation. Filters can be used to match a set of resources by
specific criteria, such as tags,\n      attributes, or IDs.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#FilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
        }
```

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
      "type": "union",
      "members": {
        "ActiveDirectoryIdentityProvider": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
          "traits": {
            "smithy.api#documentation": "<p>An object that details an Active Directory identity provider.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation":
 "<p>Details about an identity provider.</p>"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {
      "type": "structure",
      "members": {
        "IdentityProvider": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
          "traits": {
            "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
            "smithy.api#required": {}
          }
        },
        "Settings": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
          "traits": {
            "smithy.api#documentation": "<p>An object that details the registered identity providers product
related configuration\n      settings such as the subnets to provision VPC endpoints.</p>",
            "smithy.api#required":
 {}
          }
        },
        "Product": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
            "smithy.api#required": {}
          }
        },
        "Status": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The status of an identity provider.</p>",
            "smithy.api#required": {}
          }
```

```
            },
            "FailureMessage": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The failure message associated with an identity provider.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation":
 "<p>Describes an identity provider.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary": {
        "type": "structure",
        "members": {
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status
 of an EC2 instance resource.</p>",
                    "smithy.api#required": {}
                }
            },
            "Products": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>A list of provided user-based subscription products.</p>",
                    "smithy.api#required": {}
                }
            },
            "LastStatusCheckDate": {
                "target": "smithy.api#String",
                "traits": {
```

"smithy.api#documentation": " The date of the last status check. "
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for an EC2 instance. "
}

}
},
"traits": {
"smithy.api#documentation": " Describes an EC2 instance providing user-based subscriptions. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
},
"InstanceId": {
"target": "smithy.api#String",
"traits":
{
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based
subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Status": {

"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of a user associated with an EC2 instance. ",
"smithy.api#required": {}
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for users of an EC2 instance. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"AssociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was associated with an EC2 instance. "
}
},
"DisassociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was disassociated from an EC2 instance. "
}
}

},
"traits": {
"smithy.api#documentation": " Describes users of an EC2 instance providing user-based subscriptions. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InternalServerException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"

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            }
        },
        "traits": {
            "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
            "smithy.api#error": "server"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
        "type": "service",

     "version": "2018-05-10",
        "operations": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUser"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"

},
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
            }
        ],
        "traits": {
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"aws.api#service": {
"sdkId": "License Manager User Subscriptions",
"arnNamespace": "license-manager-user-subscriptions",
"cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
},
"aws.auth#sigv4": {
"name": "license-manager-user-subscriptions"
},
"aws.protocols#restJson1": {},
"smithy.api#cors": {
"additionalAllowedHeaders": [
"*",
"content-type",
"x-amz-content-sha256",
"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",
"x-api-key",
"authorization",
"x-amz-date",
"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"

]
},
"smithy.api#documentation": " With License Manager, you can create user-based subscriptions to utilize licensed software with\n a per user subscription fee on Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager User Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,

"default": false,
"documentation": "When true, use the dual-stack
endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the
configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}

},
"rules": [
{
"conditions": [
{
"fn": "isSet",
"argv": [
{
"ref": "Endpoint"
}
]
}
],
"type": "tree",
"rules": [
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseFIPS"
},

true
]
}
],

"error": "Invalid Configuration: FIPS and custom endpoint are not supported",
"type": "error"
},
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseDualStack"
},
true
]
}
],

"error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
"type": "error"
},
{
"conditions": [],
"endpoint": {
"url": {
"ref": "Endpoint"
},
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
},
{
"conditions": [
{
"fn": "isSet",
"argv": [

{
"ref": "Region"
}
]
}
],
"type": "tree",
"rules": [
{
"conditions": [

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                    {
                        "fn": "aws.partition",
                        "argv": [
                            {
                                "ref": "Region"
                            }
                        ],
                        "assign": "PartitionResult"
                    }
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                "type": "tree",

        "rules": [
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                                "fn": "booleanEquals",
                                "argv": [
                                    {
                                        "ref": "UseFIPS"
                                    },
                                    true
                                ]
                            },
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    {
                                        "ref": "UseDualStack"

                                    },
                                    true
                                ]
                            }
                        ],
                        "type": "tree",
                        "rules": [
                            {
                                "conditions": [
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                                        "fn": "booleanEquals",
                                        "argv": [
                                            true,
                                            {
                                                "fn": "getAttr",

"argv": [
                                                {
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"ref": "PartitionResult"
},
"supportsFIPS"
]
}
]
},
{
"fn": "booleanEquals",
"argv": [
true,
{

"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},
"supportsDualStack"
]
}
]
}
],
"type": "tree",
"rules": [
{

"conditions": [],
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
},
{
"conditions": [],
"error": "FIPS and DualStack are enabled, but this partition does not support one or both",
"type": "error"
}
]
},
{

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                    "conditions": [
                        {
                            "fn": "booleanEquals",
                            "argv": [
                                {
                                    "ref": "UseFIPS"
                                },
                                true
                            ]
                        }
                    ],
                    "type": "tree",

            "rules": [
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                            "conditions": [
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                                    "fn": "booleanEquals",
                                    "argv": [
                                        true,
                                        {
                                            "fn": "getAttr",
                                            "argv": [
                                                {
                                                    "ref": "PartitionResult"
                                                },
                                                "supportsFIPS"

                                ]
                                        }
                                    ]
                                }
                            ],
                            "type": "tree",
                            "rules": [
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                                    "conditions": [],
                                    "endpoint": {
                                        "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                                        "properties": {},
                                        "headers": {}

                    },
                                    "type": "endpoint"
                                }
                            ]
                        },
```

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            {
              "conditions": [],
              "error": "FIPS is enabled but this partition does not support FIPS",
              "type": "error"
            }
          ]
        },
        {
          "conditions": [
            {
              "fn": "booleanEquals",
              "argv": [
                {
                  "ref": "UseDualStack"
                },
                true
              ]
            }
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          "rules": [
            {
              "conditions": [
                {
                  "fn": "booleanEquals",
                  "argv": [
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                    {

                      "fn": "getAttr",
                        "argv": [
                          {
                            "ref": "PartitionResult"
                          },
                          "supportsDualStack"
                        ]
                    }
                  ]
                }
              ],
              "type": "tree",
              "rules": [
                {

                  "conditions": [],
                  "endpoint": {
                    "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
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"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
},
{
"conditions": [],
"error": "DualStack is enabled but this partition does
not support DualStack",
"type": "error"
}
]
},
{
"conditions": [],
"endpoint": {
"url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
}
]
},
{
"conditions":
[],
"error": "Invalid Configuration: Missing Region",
"type": "error"
}
]
},
"smithy.rules#endpointTests": {
"testCases": [
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",

"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation":
"For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
}
},

"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with

FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
}
},

"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
}
},

"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1
with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{

"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect":
{
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack":

true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but
this partition does not support one or both"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}

},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {

"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{

"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips enabled and dualstack disabled",

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            "expect": {
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
            },
            "params": {
                "Region": "us-east-1",
                 "UseFIPS": true,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "For custom endpoint with fips disabled and dualstack enabled",
            "expect": {
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": true,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "Missing region",
            "expect": {
                 "error": "Invalid Configuration: Missing Region"
            }
        }
      ],
      "version": "1.0"
    }
  }
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {
  "type": "operation",
  "input": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
  },
  "output": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
  },
  "errors": [
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
    },
```

```
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the identity providers for user-based subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/ListIdentityProviders"
            },
            "smithy.api#paginated":
{
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "IdentityProviderSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest": {
        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
```

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    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse":
{
        "type": "structure",
        "members": {
            "IdentityProviderSummaries": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the list identity providers operation.</p>",
                    "smithy.api#required": {}
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListInstances": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest"
         },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
             },
            {
```

"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the EC2 instances providing user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/instance/ListInstances"
},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "InstanceSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest": {
"type": "structure",
"members": {
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse": {
"type": "structure",
"members": {
"InstanceSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList",

"traits": {
"smithy.api#documentation": " Metadata that describes the list instances operation. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the user-based subscription products available from an identity provider. ",
"smithy.api#http": {
"code": 200,

"method": "POST",
"uri": "/user/ListProductSubscriptions"
},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "ProductUserSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest": {
"type": "structure",
"members": {
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name
of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {

"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match
one or\n more sets of key-value pairs that you specify. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}

```
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse": {
          "type": "structure",
          "members": {
            "ProductUserSummaries": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList",
              "traits": {
                "smithy.api#documentation": "<p>Metadata that describes the list product subscriptions
operation.</p>"
              }
            },

         "NextToken": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations": {
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
              "target":
 "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
```

"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists user associations for an identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/ListUserAssociations"
},
"smithy.api#paginated":
{
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "InstanceUserSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest": {
"type": "structure",
"members": {
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based
subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity
provider. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {

"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse": {
"type": "structure",
"members": {
"InstanceUserSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list user association operation. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary": {
"type": "structure",
"members": {

"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider of the user. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}

```
            }
        },
        "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
                "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                "smithy.api#required": {}
            }

    },
        "Status": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The status of a product for a user.</p>",
                "smithy.api#required": {}
            }
        },
        "StatusMessage": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The status message for a product for a user.</p>"
            }
        },
        "Domain": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The domain name of the user.</p>"
            }
        },
        "SubscriptionStartDate": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The
start date of a subscription.</p>"
            }
        },
        "SubscriptionEndDate": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The end date of a subscription.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>The summary of the user-based subscription products for a user.</p>"
    }
  },
  "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
```

```
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
    }
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
     },
    "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
         },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Registers an identity provider for user-based subscriptions.</p>",
        "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/identity-provider/RegisterIdentityProvider"
        },
        "smithy.api#idempotent": {}
    }
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest": {
    "type": "structure",
```

"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Settings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings such as the\n subnets to provision VPC endpoints. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the results of an identity provider operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The resource couldn't be found. ",

"smithy.api#error": "client",
"smithy.api#httpError": 404
}
},
"com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
"type": "string",

"traits": {
"smithy.api#length": {
"min": 5,
"max": 200
},
"smithy.api#pattern": "^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request failed because a service quota is exceeded. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#Settings": {
"type": "structure",
"members": {
"Subnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation":
" The subnets defined for the registered identity provider. ",
"smithy.api#length": {
"min": 1
},
"smithy.api#required": {}
}
},
"SecurityGroupId": {
"target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
"traits": {
"smithy.api#documentation": " A security group ID that allows inbound TCP port 1688
communication between resources in\n your VPC and the VPC endpoint for activation servers. ",
"smithy.api#required": {}
}

}
},
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings such as the\n subnets to provision VPC endpoints, and the security group ID that
is associated with the VPC\n endpoints. The security group should permit inbound TCP port 1688 communication from resources\n in the VPC. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Starts a product subscription for a user with the specified identity provider. \n <note>\n Your estimated bill for charges on the number of users and related costs will take 48\n hours to appear for billing periods that haven't closed (marked as Pending billing status) in Amazon Web Services Billing.
For more information, see Viewing your\n monthly charges in the Amazon Web Services Billing User Guide. \n </note>",

```
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/StartProductSubscription"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                 "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse": {
        "type": "structure",
         "members": {
            "ProductUserSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the start product subscription
operation.</p>",
                    "smithy.api#required": {}
```

```
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"

  },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Stops a product subscription for a user with the specified identity
provider.</p>",
             "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/StopProductSubscription"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
        "type": "structure",
```

"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required":
{}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse": {
"type": "structure",
"members": {
"ProductUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
"traits": {
"smithy.api#documentation":
" Metadata that describes the start product subscription operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StringList": {
"type": "list",
"member": {
"target": "smithy.api#String"

```
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#Subnet": {
        "type": "string",
        "traits": {
            "smithy.api#pattern": "subnet-[a-z0-9]{8,17}"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#Subnets": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Subnet"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException": {
        "type": "structure",
        "members": {
            "message": {

             "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request was denied because of request throttling. Retry the
request.</p>",
            "smithy.api#error": "client"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
```

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates additional product configuration settings for the registered
identity\n      provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/UpdateIdentityProviderSettings"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest": {
        "type": "structure",
        "members": {
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                 "traits": {
                    "smithy.api#required": {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "UpdateSettings": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings",
                "traits": {
                    "smithy.api#documentation": "<p>Updates the registered identity providers product related
configuration settings. You can\n      update any combination of settings in a single operation such as the:</p>\n
<ul>\n            <li>\n              <p>Subnets which you want to add to provision VPC endpoints.</p>\n            </li>\n
          <li>\n              <p>Subnets which you want to remove the VPC endpoints from.</p>\n            </li>\n
<li>\n              <p>Security group ID which permits traffic to the VPC endpoints.</p>\n            </li>\n        </ul>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
        "type": "structure",
        "members": {
            "IdentityProviderSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
                "traits": {
```

"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateSettings": {
"type": "structure",
"members": {
"AddSubnets": {

"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " The ID of one or more subnets in which License Manager will create a VPC endpoint for products that\n require connectivity to activation servers. ",
"smithy.api#required": {}
}
},
"RemoveSubnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " The ID of one or more subnets to remove. ",
"smithy.api#required": {}
}
},
"SecurityGroupId": {
"target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
"traits": {
"smithy.api#documentation": " A security group ID that allows inbound TCP port 1688 communication between resources in\n your VPC and the VPC endpoints for activation servers. "
}
}
},
"traits": {
"smithy.api#documentation": " Updates the registered identity providers product related configuration settings such as\n the subnets to provision VPC endpoints. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ValidationException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " A parameter is not valid. ",
"smithy.api#error": "client"

```
            }
        }
    }
}
{
    "smithy": "2.0",
    "metadata": {
        "suppressions": [
            {
                "id": "HttpMethodSemantics",
                "namespace": "*"
            },
            {
                "id": "HttpResponseCodeSemantics",
                "namespace": "*"
            },
            {
                "id": "PaginatedTrait",
                "namespace": "*"
            },
            {
                "id": "HttpHeaderTrait",
                "namespace": "*"
            },
            {
                "id": "HttpUriConflict",
                "namespace": "*"
            },
            {
                "id": "Service",
                "namespace": "*"
            }
        ]
    },
    "shapes": {
        "com.amazonaws.licensemanager#AWSLicenseManager": {
            "type": "service",
            "version": "2018-08-01",
            "operations": [
                {
                    "target": "com.amazonaws.licensemanager#AcceptGrant"
                },

 {
                    "target": "com.amazonaws.licensemanager#CheckInLicense"
                },
                {
                    "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
```

```
    },
    {
      "target": "com.amazonaws.licensemanager#CheckoutLicense"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateGrant"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateGrantVersion"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateLicense"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
    },
    {
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"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
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          "aws.protocols#awsJson1_1": {},
          "smithy.api#documentation": "<p>License Manager makes it easier to manage licenses from software
vendors across multiple \n        Amazon Web Services accounts and on-premises servers.</p>",
          "smithy.api#title": "AWS License Manager",
          "smithy.api#xmlNamespace": {
            "uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
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                "type": "String"
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                "required": true,
                "default": false,
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                "type": "Boolean"
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                "default": false,
                "documentation": "When true, send
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endpoint, dispatching the request will return an error.",
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"supportsDualStack"
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          "type": "error"
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          "argv": [
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  "type": "error"
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      "params": {
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            "UseDualStack": false
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                "url": "https://license-manager.ap-northeast-2.amazonaws.com"
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        "params": {
            "Region": "ap-northeast-2",
            "UseFIPS": false,
            "UseDualStack": false
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        "expect": {
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                "url": "https://license-manager.ap-northeast-3.amazonaws.com"
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        "params": {
            "Region": "ap-northeast-3",
            "UseFIPS": false,
            "UseDualStack": false
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        "params": {
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            "UseFIPS": false,
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                "UseDualStack": false
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                "UseDualStack": false
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            "expect": {
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            "UseDualStack": false
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            "UseDualStack": false
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        "params": {
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"eu-south-1",
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          "UseDualStack": false
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            "UseDualStack": false
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            "UseDualStack": false
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                "UseDualStack": false
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"UseDualStack": true
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"UseDualStack": false
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}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
}

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            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": true,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
                "error": "DualStack is enabled
but this partition does not support DualStack"
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": false,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
                }
            },
            "params": {
                "Region": "us-isob-east-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },

        {
            "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
            },
            "params": {
                "Region": "us-isob-east-1",
                "UseFIPS": true,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
                "endpoint": {
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"url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
}
},

"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",

"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,

"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips disabled and dualstack enabled",
"expect": {
"error":
"Invalid Configuration: Dualstack and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true,
"Endpoint": "https://example.com"
}
},
{
"documentation": "Missing region",
"expect": {
"error": "Invalid Configuration: Missing Region"
}
}
],
"version": "1.0"
}
}
},
"com.amazonaws.licensemanager#AcceptGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#AcceptGrantRequest"

},
"output": {
"target": "com.amazonaws.licensemanager#AcceptGrantResponse"

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        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"

}
        ],
        "traits": {
            "smithy.api#documentation": "<p>Accepts the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
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"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant
ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#AccessDeniedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {

"code": "ServiceAccessDenied",
"httpResponseCode": 401
},
"smithy.api#documentation": " Access to resource denied. ",
"smithy.api#error": "client",
"smithy.api#httpError": 401
}
},
"com.amazonaws.licensemanager#ActivationOverrideBehavior": {
"type": "enum",
"members": {
"DISTRIBUTED_GRANTS_ONLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DISTRIBUTED_GRANTS_ONLY"

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            }
          },
          "ALL_GRANTS_PERMITTED_BY_ISSUER": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "ALL_GRANTS_PERMITTED_BY_ISSUER"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#AllowedOperation": {

      "type": "enum",
        "members": {
          "CREATE_GRANT": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "CreateGrant"
            }
          },
          "CHECKOUT_LICENSE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "CheckoutLicense"
            }
          },
          "CHECKOUT_BORROW_LICENSE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "CheckoutBorrowLicense"
            }
          },
          "CHECK_IN_LICENSE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "CheckInLicense"
            }
          },
          "EXTEND_CONSUMPTION_LICENSE":
{
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "ExtendConsumptionLicense"
            }
          },
          "LIST_PURCHASED_LICENSES": {
            "target": "smithy.api#Unit",
            "traits": {
```

"smithy.api#enumValue": "ListPurchasedLicenses"
}
},
"CREATE_TOKEN": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CreateToken"
}
}
}
},
"com.amazonaws.licensemanager#AllowedOperationList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#AllowedOperation"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max":
7
}
}
},
"com.amazonaws.licensemanager#Arn": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 2048
},
"smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
}
},
"com.amazonaws.licensemanager#ArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
}
},
"com.amazonaws.licensemanager#AuthorizationException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},

"traits": {
"aws.protocols#awsQueryError":
{
"code": "AuthorizationFailure",
"httpResponseCode": 403
},
"smithy.api#documentation": " The Amazon Web Services user account does not have permission to perform the action. Check the IAM\n policy associated with this account. ",
"smithy.api#error": "client",
"smithy.api#httpError": 403
}
},
"com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
"type": "structure",
"members": {
"LastRunTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time that automated discovery last ran. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes automated discovery. "
}
},

"com.amazonaws.licensemanager#Boolean": {
"type": "boolean",
"traits": {
"smithy.api#default": false
}
},
"com.amazonaws.licensemanager#BorrowConfiguration": {
"type": "structure",
"members": {
"AllowEarlyCheckIn": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether early check-ins are allowed. ",
"smithy.api#required": {}
}
},
"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the borrow configuration, in minutes. ",
"smithy.api#required": {}

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            }
          }

},
        "traits": {
          "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
        }
      },
      "com.amazonaws.licensemanager#BoxBoolean": {
        "type": "boolean"
      },
      "com.amazonaws.licensemanager#BoxInteger": {
        "type": "integer"
      },
      "com.amazonaws.licensemanager#BoxLong": {
        "type": "long"
      },
      "com.amazonaws.licensemanager#CheckInLicense": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"

       },
          {
            "target": "com.amazonaws.licensemanager#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
```

```
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks in the specified license. Check in a license when it is no longer
in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseRequest":
 {
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",
                    "smithy.api#required": {}
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License beneficiary.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicense":
 {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
        },
        "errors": [
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{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{
"target":
"com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks out the specified license for offline use. "
}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
"type": "structure",
"members":
{
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The license must
use the borrow consumption configuration. ",

"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " License entitlements. Partial checkouts are not supported. ",
"smithy.api#required": {}
}
},
"DigitalSignatureMethod": {
"target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
"traits": {
"smithy.api#documentation": " Digital signature method. The possible
value is JSON Web Signature (JWS) algorithm PS384.\n For more information, see <a
href=\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital Signature with RSASSA-PSS. ",
"smithy.api#required": {}
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about constraints. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation":
" Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
"type": "structure",
"members": {
"LicenseArn": {

"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},
"EntitlementsAllowed":
{
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " Allowed license entitlements. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"SignedToken": {
"target": "com.amazonaws.licensemanager#SignedToken",
"traits": {
"smithy.api#documentation": " Signed token. "
}
},
"IssuedAt": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout
is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout expires. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about constraints. "
}

```
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target":
"com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
```

"smithy.api#documentation": " Checks out the specified license. \n <note>\n If the account that created the license is the same that is performing the check out, you must\n specify the account as the beneficiary. \n </note>"
}
},
"com.amazonaws.licensemanager#CheckoutLicenseRequest": {
"type": "structure",
"members": {
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. ",
"smithy.api#required": {}
}
},
"CheckoutType": {
"target": "com.amazonaws.licensemanager#CheckoutType",
"traits": {
"smithy.api#documentation": " Checkout type. ",
"smithy.api#required": {}
}
},
"KeyFingerprint": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Key fingerprint identifying the license. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " License entitlements. ",

"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",

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            "traits": {
                "smithy.api#documentation": "<p>License beneficiary.</p>"
            }
        },
        "NodeId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
            }
        }
    },
    "traits": {

   "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
    "type": "structure",
    "members": {
        "CheckoutType": {
            "target": "com.amazonaws.licensemanager#CheckoutType",
            "traits": {
                "smithy.api#documentation": "<p>Checkout type.</p>"
            }
        },
        "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License consumption token.</p>"
            }
        },
        "EntitlementsAllowed": {
            "target": "com.amazonaws.licensemanager#EntitlementDataList",
            "traits": {
                "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
            }
        },
         "SignedToken": {
            "target": "com.amazonaws.licensemanager#SignedToken",
            "traits": {
                "smithy.api#documentation": "<p>Signed token.</p>"
            }
        },
        "NodeId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
            }
```

```
            },
            "IssuedAt": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
                }
            },
            "Expiration": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and
time at which the license checkout expires.</p>"
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the checkout license.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutType": {
        "type": "enum",
        "members": {
            "PROVISIONAL": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PROVISIONAL"
                }
            },
            "PERPETUAL": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PERPETUAL"
                }
             }
        }
    },
    "com.amazonaws.licensemanager#ClientRequestToken": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 1,
                "max": 36
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            }
        }
    },
    "com.amazonaws.licensemanager#ClientToken": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 2048
            },
            "smithy.api#pattern": "^\\S+$"
        }
    },
    "com.amazonaws.licensemanager#ConflictException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "ConflictException",
                "httpResponseCode":
 409
            },
            "smithy.api#documentation": "<p>There was a conflict processing the request. Try your request
again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 409
        }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummary": {
        "type": "structure",
        "members": {
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
                }
            },
            "ConsumedLicenses": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
                }
            }
        },
```

```
"traits": {
            "smithy.api#documentation": "<p>Details about license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
        }
    },
    "com.amazonaws.licensemanager#ConsumptionConfiguration": {
        "type": "structure",
        "members": {
            "RenewType": {
                "target": "com.amazonaws.licensemanager#RenewType",
                "traits": {
                    "smithy.api#documentation": "<p>Renewal frequency.</p>"
                }
            },
            "ProvisionalConfiguration": {
                "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
                 }
            },
            "BorrowConfiguration": {
                "target": "com.amazonaws.licensemanager#BorrowConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
```

```
            },
            {
                "target":
 "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a grant for the specified license. A grant shares the use of
license\n        entitlements with a specific Amazon Web Services account, an organization, or an\n
organizational unit (OU). For more
 information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-
licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantRequest": {
        "type": "structure",
        "members": {
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>",
                    "smithy.api#required": {}

    }
            },
```

```
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Principals": {
                "target": "com.amazonaws.licensemanager#PrincipalArnList",
                "traits": {
                    "smithy.api#documentation": "<p>The grant principals. You can specify one of the following as an
Amazon Resource Name\n (ARN):</p>\n <ul>\n <li>\n <p>An Amazon Web Services
account, which includes only the account specified.</p>\n </li>\n </ul>\n <ul>\n <li>\n
<p>An organizational unit (OU), which includes all accounts in the OU.</p>\n </li>\n </ul>\n
<ul>\n
<li>\n <p>An organization, which will include all accounts across your organization.</p>\n
</li>\n </ul>",
                    "smithy.api#required": {}
                }
            },
            "HomeRegion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Home Region of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "AllowedOperations": {
                "target": "com.amazonaws.licensemanager#AllowedOperationList",
                "traits": {
                    "smithy.api#documentation": "<p>Allowed operations for the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },

    "com.amazonaws.licensemanager#CreateGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
```

```
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersion":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
             },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
```

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified grant. For more information, see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersionRequest": {
        "type": "structure",
        "members": {
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",

   "smithy.api#required": {}
                }
            },
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>"
                }
            },
            "AllowedOperations": {
                "target": "com.amazonaws.licensemanager#AllowedOperationList",
                "traits": {
                    "smithy.api#documentation": "<p>Allowed operations for the grant.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                 "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "StatusReason": {
                "target": "com.amazonaws.licensemanager#StatusReasonMessage",
                "traits": {
```

"smithy.api#documentation": " Grant status reason. "
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the grant. "
}
},
"Options": {
"target": "com.amazonaws.licensemanager#Options",
"traits": {
"smithy.api#documentation": " The options specified for the grant. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateGrantVersionResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New version of the grant. "
}
}
},
"traits":
{
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicense": {

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    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a license.</p>"
    }
},
"com.amazonaws.licensemanager#CreateLicenseConfiguration": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license configuration.</p>\n        <p>A license configuration is an abstraction of a customer license agreement that can be\n        consumed and enforced by License Manager. Components include specifications for the license\n        type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n        Dedicated Instance, Dedicated Host, or all of these), license affinity  to host (how long a \n        license must be associated with a host), and the number of licenses purchased and used.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Description of the license configuration.</p>"
                }
            },
            "LicenseCountingType": {
                "target": "com.amazonaws.licensemanager#LicenseCountingType",
                "traits": {
                    "smithy.api#documentation": "<p>Dimension used to track the license inventory.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
```

"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether hard or soft license enforcement is used. Exceeding a hard limit\n blocks the launch of new instances. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules \n vary by dimension, as follows. \n \n \n \n <code>Cores</code> dimension: <code>allowedTenancy</code> |\n <code>licenseAffinityToHost</code> |\n <code>maximumCores</code> | <code>minimumCores</code>\n \n \n \n \n <code>Instances</code> dimension: <code>allowedTenancy</code> | \n <code>maximumCores</code> | <code>minimumCores</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code> |\n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n
\n <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n <code>licenseAffinityToHost</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code>\n \n \n \n \n <code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n <code>honorVcpuOptimization</code> | \n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n The unit for <code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n <code>True</code> and <code>False</code>. "
}
},

"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the license configuration. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "

```
            }
          },
          "ProductInformationList": {
            "target": "com.amazonaws.licensemanager#ProductInformationList",
            "traits": {
              "smithy.api#documentation": "<p>Product information.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse":
{
        "type": "structure",
        "members": {
          "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
           },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new license conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {

                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource you are converting
the license type for.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting
from. \n\n        For the structure of the source license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            },
            "DestinationLicenseContext":
 {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting to.
For the structure of the destination license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
```

```
    }
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
    "type": "structure",
    "members": {
        "LicenseConversionTaskId": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",

   "traits": {
                "smithy.api#documentation": "<p>The ID of the created license type conversion task.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
         },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
```

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a report generator. "
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"ReportGeneratorName":
{
"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports to generate. The following report types an be generated: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}

}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " Defines the type of license configuration the report generator tracks. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",

"traits": {
"smithy.api#documentation": " Unique,
case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the new report
generator. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseRequest": {
"type": "structure",
"members": {
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. ",
"smithy.api#required": {}
}

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            },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product
name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product SKU.</p>",
                    "smithy.api#required": {}
                }
            },
            "Issuer": {
                "target": "com.amazonaws.licensemanager#Issuer",
                "traits": {
                    "smithy.api#documentation": "<p>License issuer.</p>",
                    "smithy.api#required": {}
                }
            },
            "HomeRegion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Home Region for the license.</p>",
                    "smithy.api#required": {}

    }
            },
            "Validity": {
                "target": "com.amazonaws.licensemanager#DatetimeRange",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>",
                    "smithy.api#required": {}
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " License beneficiary. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},

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        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseVersion": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
    }
```

```
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target":
"com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "LicenseName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License name.</p>",
            "smithy.api#required": {}
          }
        },
        "ProductName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product name.</p>",
            "smithy.api#required": {}
          }
        },
        "Issuer": {
          "target": "com.amazonaws.licensemanager#Issuer",
          "traits":
{
            "smithy.api#documentation": "<p>License issuer.</p>",
            "smithy.api#required": {}
          }
        },
        "HomeRegion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Home Region of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "Validity": {
          "target": "com.amazonaws.licensemanager#DatetimeRange",
          "traits": {
            "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
            "smithy.api#required": {}
          }
```

```
            },
            "LicenseMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license.</p>"
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>",
                    "smithy.api#required": {}
                }
            },
            "ConsumptionConfiguration": {
                "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional
configuration for workloads\n         running with continuous connectivity. Choose a borrow configuration for
workloads with offline\n         usage.</p>",
                    "smithy.api#required": {}
                }
            },

   "Status": {
                "target": "com.amazonaws.licensemanager#LicenseStatus",
                "traits": {
                    "smithy.api#documentation": "<p>License status.</p>",
                    "smithy.api#required": {}
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the license.</p>"
                }
            }
        },
        "traits": {
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"smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": " License ARN. "
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": " New version of the license. "
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseStatus",
                "traits": {
                    "smithy.api#documentation": " License status. "
                }
            }
        },
        "traits": {
            "smithy.api#output":
{}
        }
    },
    "com.amazonaws.licensemanager#CreateToken": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateTokenRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateTokenResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },

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            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },

        {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a long-lived token.</p>\n        <p>A refresh token is a JWT token used to get an access token. With an access token,\n          you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n          call License Manager to manage the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateTokenRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits":
 {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n          JWT token.</p>",
                    "smithy.api#required": {}
                }
            },
            "RoleArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n        License Manager does not check whether the roles are in use.</p>"
                }
            },
            "ExpirationInDays": {
                "target": "com.amazonaws.licensemanager#Integer",
                "traits": {
                    "smithy.api#documentation": "<p>Token expiration, in days, counted from token creation. The default is 365 days.</p>"
                }
```

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            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Data specified by the caller to be included in the JWT token. The
data is mapped\n          to the amr claim of the JWT token.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Idempotency token, valid for 10 minutes.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateTokenResponse": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",

                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
            "TokenType": {
                "target": "com.amazonaws.licensemanager#TokenType",
                "traits": {
                    "smithy.api#documentation": "<p>Token type.</p>"
                }
            },
            "Token": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DateTime": {
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    "type": "timestamp"
  },
  "com.amazonaws.licensemanager#DatetimeRange": {
    "type": "structure",
    "members": {
      "Begin": {
          "target": "com.amazonaws.licensemanager#ISO8601DateTime",
        "traits": {
          "smithy.api#documentation": "<p>Start of the time range.</p>",
          "smithy.api#required": {}
        }
      },
      "End": {
        "target": "com.amazonaws.licensemanager#ISO8601DateTime",
        "traits": {
          "smithy.api#documentation": "<p>End of the time range.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC format.</p>"
    }
  },
  "com.amazonaws.licensemanager#DeleteGrant": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
     },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
      },
      {
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"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes
the specified grant. "
}
},
"com.amazonaws.licensemanager#DeleteGrantRequest": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " The Status reason for the delete request. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the
grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}

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            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
"<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"

},
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
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"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license configuration. \n You cannot delete a license configuration that is in use. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
"type": "structure",
"members":
{
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

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            "smithy.api#documentation": "<p>ID of the license configuration.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
      "type": "structure",
      "members": {},
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
       },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target": "com.amazonaws.licensemanager#ValidationException"
```

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            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified report generator.</p>\n        <p>This action deletes the report generator, which stops it from generating future reports.\n        The action cannot be reversed. It has no effect on the previous reports from this generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to be deleted.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {

 "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the license.</p>",
                    "smithy.api#required":
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{}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseResponse": {
"type": "structure",
"members": {
"Status": {
"target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"DeletionDate": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date when the license is deleted. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#DeleteToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"

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            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },

        {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteTokenRequest": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteTokenResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}

      }
    },
    "com.amazonaws.licensemanager#DigitalSignatureMethod": {
        "type": "enum",
        "members": {
            "JWT_PS384": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "JWT_PS384"
                }
```

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            }
        }
    },
    "com.amazonaws.licensemanager#Entitlement": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement name.</p>",
                    "smithy.api#required": {}
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement resource. Use only
if the unit is None.</p>"
                }
            },
            "MaxCount": {
                "target": "com.amazonaws.licensemanager#Long",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
                }
            },
            "Overage": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether overages are allowed.</p>"
                }
            },
            "Unit": {
                "target": "com.amazonaws.licensemanager#EntitlementUnit",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement unit.</p>",
                    "smithy.api#required": {}
                }
            },
            "AllowCheckIn": {
                "target":
"com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether check-ins are allowed.</p>"
                }
            }
        },
        "traits": {
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"smithy.api#documentation": " Describes a resource entitled for use with a license. "
}
},
"com.amazonaws.licensemanager#EntitlementData": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement data name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement
data value. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementDataUnit",
"traits": {
"smithy.api#documentation": " Entitlement data unit. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Data associated with an entitlement resource. "
}
},
"com.amazonaws.licensemanager#EntitlementDataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#EntitlementData"
}
},
"com.amazonaws.licensemanager#EntitlementDataUnit": {
"type": "enum",
"members": {
"COUNT": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Count"
}
},

"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"SECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Seconds"
}
},
"MICROSECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Microseconds"
}
},
"MILLISECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Milliseconds"
}
},
"BYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes"
}
},
"KILOBYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes"
}
},
"MEGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes"
}
},
"GIGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes"
}
},

"TERABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabytes"
}
},
"BITS":
{
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits"
}
},
"KILOBITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobits"
}
},
"MEGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits"
}
},
"GIGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits"
}
},
"TERABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits"

}
},
"PERCENT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Percent"
}
},
"BYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes/Second"

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            }
        },
        "KILOBYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobytes/Second"
            }
        },
        "MEGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabytes/Second"
            }
        },
        "GIGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "Gigabytes/Second"
            }
        },
        "TERABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabytes/Second"
            }
        },
        "BITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bits/Second"
            }
        },
        "KILOBITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobits/Second"
            }
        },
        "MEGABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue":
"Megabits/Second"
            }
        },
        "GIGABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
```

```
                "smithy.api#enumValue": "Gigabits/Second"
            }
        },
        "TERABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabits/Second"
            }
        },
        "COUNT_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Count/Second"
            }
        }
    }
},
"com.amazonaws.licensemanager#EntitlementList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Entitlement"
    }
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException":
{
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>The entitlement is not allowed.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#EntitlementUnit": {
    "type": "enum",
    "members": {
        "COUNT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Count"
            }
        },
        "NONE": {
            "target": "smithy.api#Unit",
```

```
            "traits": {
                "smithy.api#enumValue": "None"
            }
        },
        "SECONDS":
{
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Seconds"
            }
        },
        "MICROSECONDS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Microseconds"
            }
        },
        "MILLISECONDS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Milliseconds"
            }
        },
        "BYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bytes"
            }
        },
        "KILOBYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobytes"
             }
        },
        "MEGABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabytes"
            }
        },
        "GIGABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Gigabytes"
            }
        },
        "TERABYTES": {
```

"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabytes"
}
},
"BITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits"
}
},
"KILOBITS": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Kilobits"
}
},
"MEGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits"
}
},
"GIGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits"
}
},
"TERABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits"
}
},
"PERCENT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Percent"
}
},
"BYTES_PER_SECOND": {
"target":
"smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes/Second"
}

```
            },
            "KILOBYTES_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Kilobytes/Second"
                }
            },
            "MEGABYTES_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Megabytes/Second"
                }
            },
            "GIGABYTES_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Gigabytes/Second"
                }
            },
            "TERABYTES_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {

"smithy.api#enumValue": "Terabytes/Second"
                }
            },
            "BITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Bits/Second"
                }
            },
            "KILOBITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Kilobits/Second"
                }
            },
            "MEGABITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Megabits/Second"
                }
            },
            "GIGABITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Gigabits/Second"
```

```
            }
        },

    "TERABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabits/Second"
            }
        },
        "COUNT_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Count/Second"
            }
        }
    }
},
"com.amazonaws.licensemanager#EntitlementUsage": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage name.</p>",
                "smithy.api#required": {}
            }
        },
        "ConsumedValue": {
            "target": "com.amazonaws.licensemanager#String",

        "traits": {
                "smithy.api#documentation": "<p>Resource usage consumed.</p>",
                "smithy.api#required": {}
            }
        },
        "MaxCount": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
            }
        },
        "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
                "smithy.api#required": {}
            }
        }
```

```
        },
        "traits": {
            "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementUsageList":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#EntitlementUsage"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumption": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
```

```
        "type": "structure",
        "members": {
          "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>License consumption token.</p>",
              "smithy.api#required": {}

      }
          },
          "DryRun": {
            "target": "com.amazonaws.licensemanager#Boolean",
            "traits": {
              "smithy.api#default": false,
              "smithy.api#documentation": "<p>Checks whether you have the required permissions for the action,
without actually making the request. Provides an error response if you do not have the required permissions.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
        "type": "structure",
        "members": {
          "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>License consumption token.</p>"
            }
          },

          "Expiration": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Date and time at which the license consumption expires.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#FailedDependencyException": {
        "type": "structure",
        "members": {
          "Message": {
```

"target": "com.amazonaws.licensemanager#Message"
},
"ErrorCode": {
"target": "com.amazonaws.licensemanager#String"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "FailedDependency",
"httpResponseCode": 424
},
"smithy.api#documentation":
" A dependency required to run the API is missing. ",
"smithy.api#error": "client",
"smithy.api#httpError": 424
}
},
"com.amazonaws.licensemanager#Filter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#FilterName",
"traits": {
"smithy.api#documentation": " Name of the filter. Filter names are case-sensitive. "
}
},
"Values": {
"target": "com.amazonaws.licensemanager#FilterValues",
"traits": {
"smithy.api#documentation": " The value of the filter, which is case-sensitive. You can only
specify one value for the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter
name and value pair that is used to return more specific results from a\n describe operation. Filters can be used
to match a set of resources by specific criteria,\n such as tags, attributes, or IDs. "
}
},
"com.amazonaws.licensemanager#FilterLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {

```
        "aws.protocols#awsQueryError": {
            "code": "FilterLimitExceeded",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The request uses too many filters or too many filter values.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#FilterList": {
    "type": "list",
     "member": {
        "target": "com.amazonaws.licensemanager#Filter"
    }
},
"com.amazonaws.licensemanager#FilterName": {
    "type": "string"
},
"com.amazonaws.licensemanager#FilterValue": {
    "type": "string"
},
"com.amazonaws.licensemanager#FilterValues": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#FilterValue",
        "traits": {
            "smithy.api#xmlName": "item"
        }
    }
},
"com.amazonaws.licensemanager#Filters": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Filter",
        "traits": {
            "smithy.api#xmlName": "item"
        }
    }
},
"com.amazonaws.licensemanager#GetAccessToken": {
    "type": "operation",
    "input": {
         "target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
    },
    "errors": [
```

```
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets a temporary access token to use with
AssumeRoleWithWebIdentity. Access
 tokens\n          are valid for one hour.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenRequest": {
        "type": "structure",
        "members": {
            "Token": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>",
                    "smithy.api#required": {}
                }
            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Token properties to validate against those present in the JWT
token.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenResponse":
 {
        "type": "structure",
        "members": {
```

```
        "AccessToken": {
            "target": "com.amazonaws.licensemanager#TokenString",
            "traits": {
                "smithy.api#documentation": "<p>Temporary access token.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#GetGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"

   },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
```

```
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
        "Grant": {
            "target": "com.amazonaws.licensemanager#Grant",
            "traits": {
                "smithy.api#documentation": "<p>Grant details.</p>"
            }
        }
    },
    "traits": {

"smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#GetLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
```

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"

},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license configuration. "

```
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits":
 {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurationId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Unique ID for the license configuration.</p>"
                }
            },
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
                }
            },
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the license configuration.</p>"
                 }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Description of the license configuration.</p>"
                }
            },
            "LicenseCountingType": {
                "target": "com.amazonaws.licensemanager#LicenseCountingType",
```

```
            "traits": {
                "smithy.api#documentation": "<p>Dimension for which the licenses are counted.</p>"
            }
        },
        "LicenseRules": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>License rules.</p>"
            }
        },
        "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",

           "traits": {
                "smithy.api#documentation": "<p>Number of available licenses.</p>"
            }
        },
        "LicenseCountHardLimit": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Sets the number of available licenses as a hard limit.</p>"
            }
        },
        "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses assigned to resources.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License configuration status.</p>"
            }

    },
        "OwnerAccountId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Account ID of the owner of the license configuration.</p>"
            }
        },
        "ConsumedLicenseSummaryList": {
            "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
            "traits": {
                "smithy.api#documentation": "<p>Summaries of the licenses consumed by resources.</p>"
            }
        },
```

"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the managed resources. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags for the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When
true, disassociates a resource when software is uninstalled. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTask": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets information about the specified license type conversion task. "
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task to retrieve information on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the resources the license conversion task is associated with. "

```
            }
        },
        "SourceLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
                "smithy.api#documentation": "<p>Information
about the license type converted from.</p>"
            }
        },
        "DestinationLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
                "smithy.api#documentation": "<p>Information about the license type converted to.</p>"
            }
        },
        "StatusMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
            "traits": {
                "smithy.api#documentation": "<p>Status of the license type conversion task.</p>"
            }
        },

  "StartTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Time at which the license type conversion task was started .</p>"
            }
        },
        "LicenseConversionTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Amount of time to complete the license type conversion.</p>"
            }
        },
        "EndTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Time at which the license type conversion task was
completed.</p>"
            }
        }
    },
```

```
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

         },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets information about the specified report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. ",
"smithy.api#required":
{}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"ReportGenerator": {
"target": "com.amazonaws.licensemanager#ReportGenerator",
"traits": {
"smithy.api#documentation": " A report generator that creates periodic reports about your license configurations. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
},
"traits": {
"smithy.api#input": {}
}

```
    },
    "com.amazonaws.licensemanager#GetLicenseResponse": {
        "type": "structure",
        "members": {
            "License": {
                "target": "com.amazonaws.licensemanager#License",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },

"com.amazonaws.licensemanager#GetLicenseUsage": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {

"target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the usage of the specified license.</p>"
        }
```

```
    },
    "com.amazonaws.licensemanager#GetLicenseUsageRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#GetLicenseUsageResponse": {
      "type": "structure",
      "members": {
        "LicenseUsage": {
          "target":
"com.amazonaws.licensemanager#LicenseUsage",
          "traits": {
            "smithy.api#documentation": "<p>License usage details.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#GetServiceSettings": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets the License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsRequest": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Regional S3 bucket path for storing reports, license trail event data,
discovery data,\n        and so on.</p>"

  }
            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>SNS topic configured to receive notifications from License
Manager.</p>"
                }
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether Organizations is integrated with License
Manager for\n        cross-account discovery.</p>"
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether cross-account discovery is enabled.</p>"
                }
```

```
        },
            "LicenseManagerResourceShareArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource share. The License
Manager management account \n        provides member accounts with access to this share.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#Grant": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {

 "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ParentArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Parent ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>License ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "GranteePrincipalArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
```

"smithy.api#documentation": " The grantee principal ARN. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"GrantStatus": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. ",
"smithy.api#required": {}
}
},
"GrantedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Granted operations. ",
"smithy.api#required": {}
}
},
"Options": {
"target": "com.amazonaws.licensemanager#Options",
"traits": {
"smithy.api#documentation": " The options specified for the grant. "
}
}
},
"traits": {
"smithy.api#documentation":

" Describes a grant. "
        }
    },
    "com.amazonaws.licensemanager#GrantList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Grant"
        }
    },
    "com.amazonaws.licensemanager#GrantStatus": {
        "type": "enum",
        "members": {
            "PENDING_WORKFLOW": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_WORKFLOW"
                }
            },
            "PENDING_ACCEPT": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_ACCEPT"
                }
            },
            "REJECTED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "REJECTED"

            }
            },
            "ACTIVE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "ACTIVE"
                }
            },
            "FAILED_WORKFLOW": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "FAILED_WORKFLOW"
                }
            },
            "DELETED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DELETED"
                }

```
            },
            "PENDING_DELETE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_DELETE"
                }
            },
            "DISABLED": {
                "target": "smithy.api#Unit",
                "traits":
{
                    "smithy.api#enumValue": "DISABLED"
                }
            },
            "WORKFLOW_COMPLETED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "WORKFLOW_COMPLETED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GrantedLicense": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "LicenseName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License name.</p>"
                }

  },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product name.</p>"
                }
            },
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product SKU.</p>"
```

```
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
                "smithy.api#documentation": "<p>Granted license issuer.</p>"
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region of the granted license.</p>"

         }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>Granted license status.</p>"
            }
        },
        "Validity": {
            "target": "com.amazonaws.licensemanager#DatetimeRange",
            "traits": {
                "smithy.api#documentation": "<p>Date and time range during which the granted license is valid, in
ISO8601-UTC format.</p>"
            }
        },
        "Beneficiary": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Granted license beneficiary.</p>"
            }
        },
        "Entitlements": {
            "target": "com.amazonaws.licensemanager#EntitlementList",
             "traits": {
                "smithy.api#documentation": "<p>License entitlements.</p>"
            }
        },
        "ConsumptionConfiguration": {
            "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
            }
        },
        "LicenseMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
```

```
            "traits": {
                "smithy.api#documentation": "<p>Granted license metadata.</p>"
            }
        },
        "CreateTime": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Creation time of the granted license.</p>"

  }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Version of the granted license.</p>"
            }
        },
        "ReceivedMetadata": {
            "target": "com.amazonaws.licensemanager#ReceivedMetadata",
            "traits": {
                "smithy.api#documentation": "<p>Granted license received metadata.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes a license that is granted to a grantee.</p>"
    }
},
"com.amazonaws.licensemanager#GrantedLicenseList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#GrantedLicense"
    }
},
"com.amazonaws.licensemanager#ISO8601DateTime":
{
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 50
        },
        "smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-
1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[ 0-3]|[0-1][0-9]):[0-5][0-9])+$"
    }
},
"com.amazonaws.licensemanager#Integer": {
    "type": "integer"
```

```
    },
    "com.amazonaws.licensemanager#InvalidParameterValueException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidParameterValueProvided",
                "httpResponseCode": 400
            },
            "smithy.api#documentation":
 "<p>One or more parameter values are not valid.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#InvalidResourceStateException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidResourceState",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>License Manager cannot allocate a license to a resource because of its
state. </p>\n        <p>For example, you cannot allocate a license to an instance in the process of shutting\n
down.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },

    "com.amazonaws.licensemanager#InventoryFilter": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the filter.</p>",
                    "smithy.api#required": {}
                }
```

```
        },
        "Condition": {
            "target": "com.amazonaws.licensemanager#InventoryFilterCondition",
            "traits": {
                "smithy.api#documentation": "<p>Condition of the filter.</p>",
                "smithy.api#required": {}
            }
        },
        "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Value of the filter.</p>"
            }
        }

    },
    "traits": {
        "smithy.api#documentation": "<p>An inventory filter.</p>"
    }
  },
  "com.amazonaws.licensemanager#InventoryFilterCondition": {
    "type": "enum",
    "members": {
        "EQUALS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EQUALS"
            }
        },
        "NOT_EQUALS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "NOT_EQUALS"
            }
        },
        "BEGINS_WITH": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "BEGINS_WITH"
            }
        },
        "CONTAINS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "CONTAINS"
            }
        }
    }
```

```
    },
    "com.amazonaws.licensemanager#InventoryFilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#InventoryFilter"
        }
    },
    "com.amazonaws.licensemanager#Issuer": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Issuer name.</p>",
                    "smithy.api#required": {}
                }
            },
            "SignKey": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage
 of sign and verify, \n        and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about the issuer of a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#IssuerDetails": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Issuer name.</p>"
                }
            },
            "SignKey": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n        and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
                }
            },
            "KeyFingerprint": {
```

```
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Issuer key fingerprint.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details associated with the issuer of a license.</p>"
    }
},
"com.amazonaws.licensemanager#License": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
        },
        "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {

       "smithy.api#documentation": "<p>License name.</p>"
            }
        },
        "ProductName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product name.</p>"
            }
        },
        "ProductSKU": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product SKU.</p>"
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
                "smithy.api#documentation": "<p>License issuer.</p>"
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

"smithy.api#documentation": " Home Region of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"Entitlements": {

"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " License metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " License creation time. "
}
},

```
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Software license that is managed in License Manager.</p>"
    }
},
"com.amazonaws.licensemanager#LicenseConfiguration": {
    "type": "structure",
    "members": {
        "LicenseConfigurationId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Unique ID of the license configuration.</p>"
            }
        },
        "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
            }
        },
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Name of the license configuration.</p>"
            }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Description of the license configuration.</p>"
            }
        },
        "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
            "traits": {
                "smithy.api#documentation": "<p>Dimension to use to track the license inventory.</p>"
             }
        },
        "LicenseRules": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>License rules.</p>"
```

```
            }
        },
        "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
            }
        },
        "LicenseCountHardLimit": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Number of available licenses as a hard limit.</p>"
            }
        },
        "DisassociateWhenNotFound": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
             "traits": {
                "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
            }
        },
        "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses consumed. </p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Status of the license configuration.</p>"
            }
        },
        "OwnerAccountId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Account ID of the license configuration's owner.</p>"

        }
        },
        "ConsumedLicenseSummaryList": {
            "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
            "traits": {
                "smithy.api#documentation": "<p>Summaries for licenses consumed by various resources.</p>"
            }
        },
        "ManagedResourceSummaryList": {
            "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
```

"traits": {
"smithy.api#documentation": " Summaries for managed resources. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {

"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
}
},
"traits": {
"smithy.api#documentation": " A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
"type": "structure",
"members": {
"ResourceArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of server resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource consuming licenses. "
}

```
            },
            "AssociationTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {

    "smithy.api#documentation": "<p>Time when the license configuration was associated with the resource.</p>"
                }
            },
            "AmiAssociationScope": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-
account</code>.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes an association with a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationStatus": {
        "type": "enum",
        "members":
{
            "AVAILABLE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "AVAILABLE"
                }
            },
            "DISABLED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DISABLED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationUsage": {
        "type": "structure",
        "members": {
            "ResourceArn": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits":
{
"smithy.api#documentation": " Type of resource. "
}
},
"ResourceStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the account that owns the resource. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was initially associated with the resource. "
}
},

"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about the usage of a resource associated with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"

}
},
"com.amazonaws.licensemanager#LicenseConfigurations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfiguration"
}
},
"com.amazonaws.licensemanager#LicenseConversionContext": {

"type": "structure",
"members": {
"UsageOperation": {
"target": "com.amazonaws.licensemanager#UsageOperation",
"traits": {
"smithy.api#documentation": " The Usage operation value that corresponds to the license type you are converting your resource from. For more information about which platforms correspond to which usage operation values see Sample data: usage operation by platform\n \n "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTask": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {

"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " The ID of the license type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the resource associated with the license type\n conversion task. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted from. "

```
            }
        },
        "DestinationLicenseContext": {
            "target":
 "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
                "smithy.api#documentation": "<p>Information about the license type this conversion task converted
to.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
            "traits": {
                "smithy.api#documentation": "<p>The status of the conversion task.</p>"
            }
        },
        "StatusMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
            }
        },
        "StartTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation":
 "<p>The time the conversion task was started at.</p>"
            }
        },
        "LicenseConversionTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>The time the usage operation value of the resource was
changed.</p>"
            }
        },
        "EndTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>The time the conversion task was completed.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
    }
},
"com.amazonaws.licensemanager#LicenseConversionTaskId": {
```

```
        "type": "string",
        "traits": {

       "smithy.api#length": {
            "min": 0,
            "max": 50
          },
          "smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
        }
      },
      "com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
        "type": "enum",
        "members": {
          "IN_PROGRESS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "IN_PROGRESS"
            }
          },
          "SUCCEEDED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "SUCCEEDED"
            }
          },
          "FAILED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "FAILED"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#LicenseConversionTasks":
{
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#LicenseConversionTask"
        }
      },
      "com.amazonaws.licensemanager#LicenseCountingType": {
        "type": "enum",
        "members": {
          "VCPU": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "vCPU"
            }
```

```
        },
        "INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Instance"
            }
        },
        "CORE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Core"
            }
        },
        "SOCKET": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "Socket"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseDeletionStatus": {
    "type": "enum",
    "members": {
        "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#License"
    }
},
"com.amazonaws.licensemanager#LicenseOperationFailure": {

    "type": "structure",
    "members": {
```

"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Resource type. "
}
},
"ErrorMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Error message. "
}
},
"FailureTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {

"smithy.api#documentation": " Failure time. "
}
},
"OperationName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the operation. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource. "
}
},
"OperationRequestedBy": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The requester is \"License Manager Automated Discovery\". "
}
},
"MetadataList": {

"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {

"smithy.api#documentation": " Reserved. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the failure of a license operation. "
}
},
"com.amazonaws.licensemanager#LicenseOperationFailureList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseOperationFailure"
}
},
"com.amazonaws.licensemanager#LicenseSpecification": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",

"smithy.api#required": {}
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Details for associating a license configuration with a resource. "
}
},
"com.amazonaws.licensemanager#LicenseSpecifications": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseSpecification"
}
},
"com.amazonaws.licensemanager#LicenseStatus": {
"type": "enum",
"members": {
"AVAILABLE": {

"target": "smithy.api#Unit",

"traits": {
"smithy.api#enumValue": "AVAILABLE"
}
},
"PENDING_AVAILABLE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_AVAILABLE"
}
},
"DEACTIVATED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DEACTIVATED"
}
},
"SUSPENDED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "SUSPENDED"
}
},
"EXPIRED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "EXPIRED"
}
},

"PENDING_DELETE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_DELETE"
}
},
"DELETED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DELETED"
}
}
}
},
"com.amazonaws.licensemanager#LicenseUsage": {
"type": "structure",
"members": {

"EntitlementUsages": {
"target": "com.amazonaws.licensemanager#EntitlementUsageList",
"traits": {
"smithy.api#documentation": " License entitlement usages. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the entitlement usage associated with a license. "

}
},
"com.amazonaws.licensemanager#LicenseUsageException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "LicenseUsageFailure",
"httpResponseCode": 412
},
"smithy.api#documentation": " You do not have enough licenses available to support a new resource launch. ",
"smithy.api#error": "client",
"smithy.api#httpError": 412
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"

```
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the resource associations for the
 specified license configuration.</p>\n        <p>Resource associations need not consume licenses from a license
configuration. \n        For example, an AMI or a stopped instance might not consume a license (depending on \n
the license rules).</p>"
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results
 to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
        "type": "structure",
```

"members": {
"LicenseConfigurationAssociations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
"traits": {
"smithy.api#documentation": " Information about the associations for the license configuration. "
}
},
"NextToken": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the grants distributed for the specified license. "
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
"type": "structure",
"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranteePrincipalARN</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
"type": "structure",

"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",

"traits": {
"smithy.api#documentation": " Distributed grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license configuration operations that failed. "
}

```
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
      "type": "structure",
      "members": {
        "LicenseConfigurationArn": {
          "target": "com.amazonaws.licensemanager#String",
           "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name of the license configuration.</p>",
            "smithy.api#required": {}
          }
        },
        "MaxResults": {
          "target": "com.amazonaws.licensemanager#BoxInteger",
          "traits": {
            "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse":
{
      "type": "structure",
      "members": {
        "LicenseOperationFailureList": {
          "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
          "traits": {
            "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
```

```
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurations": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
        },

    "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configurations
 for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
configurations.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
```

"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next
set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical
operators\n are supported: \n \n \n \n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n
\n <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license
enforcement is used. \n Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>. \n
\n \n \n <code>usagelimitExceeded</code> - A Boolean value that
indicates whether the available licenses have been exceeded. \n Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
"type": "structure",
"members": {
"LicenseConfigurations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurations",
"traits": {
"smithy.api#documentation": " Information about the license configurations. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},

```
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseConversionTasks": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
    "type": "structure",
    "members": {
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {

"smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
```

```
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>\n        Filters to scope the results. Valid filters are
<code>ResourceArns</code> and <code>Status</code>.\n      </p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTasks": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTasks",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configuration tasks for your
 account.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target":
```

"com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the report generators for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest":
{
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported:
\n \n \n \n <code>LicenseConfigurationArn</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits":
{
"smithy.api#documentation": " Maximum number of results to return in a single call. "

```
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
        "type": "structure",
        "members": {
          "ReportGenerators": {
            "target": "com.amazonaws.licensemanager#ReportGeneratorList",
            "traits": {
              "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }

        }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
```

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Describes the license configurations for the specified resource. "
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a resource that has an associated license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
"type": "structure",
"members": {
"LicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " License configurations associated with a resource. "
}
},

```
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists all versions of the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
```

```
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
        "type": "structure",
        "members": {
          "Licenses": {
            "target": "com.amazonaws.licensemanager#LicenseList",
            "traits": {
              "smithy.api#documentation": "<p>License details.</p>"
            }
          },

"NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenses": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicensesRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicensesResponse"
        },
```

```
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists the licenses for your account.</p>"
        }
      },
      "com.amazonaws.licensemanager#ListLicensesRequest": {
        "type": "structure",
        "members": {
          "LicenseArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
            }
          },

      "Filters": {
            "target": "com.amazonaws.licensemanager#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n <ul>\n <li>\n <p>\n <code>Beneficiary</code>\n </p>\n
</li>\n <li>\n <p>\n <code>ProductSKU</code>\n </p>\n </li>\n
<li>\n <p>\n <code>Fingerprint</code>\n </p>\n </li>\n <li>\n
<p>\n <code>Status</code>\n </p>\n </li>\n </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token
```

for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicensesResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#LicenseList",
"traits": {
"smithy.api#documentation": " License details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists grants that are received. Received grants are grants created while specifying the\n recipient as this Amazon Web Services account, your organization, or an organizational unit\n (OU) to which this member account belongs. "
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganization": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},

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            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target":
 "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the grants received for all accounts in the organization.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the received license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n
    <ul>\n        <li>\n            <p>\n                <code>ParentArn</code>\n            </p>\n        </li>\n
<li>\n            <p>\n                <code>GranteePrincipalArn</code>\n            </p>\n        </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
```

"com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Lists the grants the organization has received. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
"type": "structure",
"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranterAccountId</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},

```
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
    "type": "structure",
    "members": {
        "Grants": {
            "target": "com.amazonaws.licensemanager#GrantList",
             "traits": {
                "smithy.api#documentation": "<p>Received grant details.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
         },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists received licenses.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {

    "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
```

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the licenses received for all accounts in the organization. "
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest": {
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>Beneficiary</code>\n \n \n \n \n <code>ProductSKU</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#GrantedLicenseList",
"traits": {
"smithy.api#documentation": " Lists the licenses the organization has received. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
"type": "structure",
"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},

"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>IssuerName</code>\n \n \n \n \n <code>Beneficiary</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
"type": "structure",

```
    "members": {
      "Licenses": {
        "target": "com.amazonaws.licensemanager#GrantedLicenseList",
        "traits": {
          "smithy.api#documentation": "<p>Received license details.</p>"
        }
      },

      "NextToken": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Token for the next set of results.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#ListResourceInventory": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#FailedDependencyException"
      },
      {
        "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
```

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListResourceInventoryRequest": {
        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                 "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#InventoryFilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>account_id</code>
- The ID of the Amazon Web Services account that owns the resource.\n                Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n
            </li>\n            <li>\n                <p>\n                    <code>application_name</code> - The name of the
application. \n                Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n
    </li>\n            <li>\n                <p>\n                    <code>license_included</code> - The type of license included. \n
            Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n                Possible values
are <code>sql-server-enterprise</code> | \n                <code>sql-server-standard</code> | \n                <code>sql-
server-web</code> |  \n                <code>windows-server-datacenter</code>.</p>\n            </li>\n            <li>\n
    <p>\n                    <code>platform</code> - The platform of the resource.\n                Logical operators are
<code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n            </li>\n            <li>\n                <p>\n
        <code>resource_id</code> - The ID of the resource. \n                Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n
      <code>tag:<key></code> - The key/value combination of a tag assigned \n                to the resource. Logical
operators are <code>EQUALS</code> (single account) or\n                <code>EQUALS</code> |
<code>NOT_EQUALS</code> (cross account).</p>\n            </li>\n        </ul>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
```

```
    "com.amazonaws.licensemanager#ListResourceInventoryResponse": {
      "type": "structure",
      "members": {
        "ResourceInventoryList": {
          "target": "com.amazonaws.licensemanager#ResourceInventoryList",
          "traits": {
            "smithy.api#documentation": "<p>Information
about the resources.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#ListTagsForResource": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
         },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Lists the tags for the specified license configuration.</p>"
```

```
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",

    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceResponse": {
        "type": "structure",
        "members": {
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the tags.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListTokens": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTokensRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTokensResponse"
        },
        "errors":
[
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists your tokens.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTokensRequest": {
        "type": "structure",
        "members": {
            "TokenIds": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {

                  "smithy.api#documentation": "<p>Token IDs.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filter is supported:</p>\n
    <ul>\n        <li>\n        <p>\n        <code>LicenseArns</code>\n        </p>\n        </li>\n
</ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation":
 "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
```

```
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListTokensResponse": {
        "type": "structure",
        "members": {
            "Tokens": {
                "target": "com.amazonaws.licensemanager#TokenList",
                "traits": {
                    "smithy.api#documentation": "<p>Received token details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying license\n consumption details by resource at a selected point in time. Use this action to audit the\n current license consumption for any license inventory and configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n are supported:</p>\n <ul>\n <li>\n <p>\n <code>resourceArn</code> - The ARN of the license configuration resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n </li>\n <li>\n <p>\n <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n </li>\n <li>\n <p>\n <code>resourceAccount</code> - The ID of the account that owns the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n </li>\n </ul>"
                }
            }
```

```
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
        "type": "structure",
        "members": {

"LicenseConfigurationUsageList": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#Location": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#Long": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#ManagedResourceSummary": {
        "type": "structure",
        "members": {
            "ResourceType":
{
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
                }
            },
            "AssociationCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
                }
            }
```

```
    },
    "traits": {
        "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
    }
},
"com.amazonaws.licensemanager#MaxSize100": {

"type": "integer",
    "traits": {
        "smithy.api#range": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#String"
    },
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 3
        }
    }
},
"com.amazonaws.licensemanager#Message": {
    "type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The key name.</p>"
            }
        },

"Value": {
            "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " The value. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes key/value pairs. "
}
},
"com.amazonaws.licensemanager#MetadataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Metadata"
}
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " There are no entitlements found for this license, or the entitlement maximum count is reached. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#Options": {
"type": "structure",
"members": {
"ActivationOverrideBehavior": {
"target": "com.amazonaws.licensemanager#ActivationOverrideBehavior",
"traits": {
"smithy.api#documentation": " An activation option for your grant that determines the behavior of activating a grant.\n Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the\n <code>Status</code> parameter. \n \n \n As a license administrator, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when activating a grant. \n \n \n As a grantor, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee\n account in your organization. \n \n \n As a grantee, if the grantor creating the distributed grant doesnt specify an\n <code>ActivationOverrideBehavior</code>, you can optionally specify one when you\n are activating the grant. \n \n \n <dl>\n <dt>DISTRIBUTED_GRANTS_ONLY</dt>\n <dd>\n Use this value to activate a grant without replacing any member accounts\n active grants for the same product. \n </dd>\n <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt>\n <dd>\n Use this value to activate a

grant and disable other active grants in any\n member accounts
for the same product. This action will also replace their\n previously activated grants with this activated grant. \n </dd>\n </dl>"
}
}
},
"traits": {
"smithy.api#documentation": " The options you can specify when you create a new version of a grant, such as activation\n override behavior. For more information, see Granted licenses in License Manager in the License Manager User Guide. "
}
},
"com.amazonaws.licensemanager#OrganizationConfiguration": {
"type": "structure",
"members": {
"EnableIntegration": {
"target": "com.amazonaws.licensemanager#Boolean",
"traits": {
"smithy.api#default": false,
"smithy.api#documentation": " Enables Organizations integration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Configuration information for Organizations. "
}
},
"com.amazonaws.licensemanager#PrincipalArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 1
}
}
},
"com.amazonaws.licensemanager#ProductInformation": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterList": {
"target": "com.amazonaws.licensemanager#ProductInformationFilterList",
"traits": {
"smithy.api#documentation": " A Product information filter consists of a <code>ProductInformationFilterComparator</code> which is a logical operator, a <code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. \n Accepted values for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. \n The following filters and are supported when the resource type \n is <code>SSM_MANAGED</code>: \n \n \n \n <code>Application Name</code> - The name of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Publisher</code> - The publisher of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Version</code> - The version of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Type</code> - The platform type.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n \n \n \n \n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n \n \n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n Possible values are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n The following filters and logical operators are supported when the resource type\n is <code>RDS</code>: \n \n \n \n <code>Engine Edition</code> - The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>. \n \n \n \n <code>License Pack</code> - The license pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n <code>diagnostic pack sqlt</code> | \n <code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n \n ",
"smithy.api#required": {}
}
}
},

```
    "traits": {
        "smithy.api#documentation": "<p>Describes product information for a license configuration.</p>"
    }
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
    "type": "structure",
    "members": {
        "ProductInformationFilterName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Filter name.</p>",
                "smithy.api#required": {}
            }
        },
        "ProductInformationFilterValue": {
            "target": "com.amazonaws.licensemanager#StringList",

      "traits": {
                "smithy.api#documentation": "<p>Filter value.</p>"
            }
        },
        "ProductInformationFilterComparator": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Logical operator.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes product information filters.</p>"
    }
},
"com.amazonaws.licensemanager#ProductInformationFilterList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformationFilter"
    }
},
"com.amazonaws.licensemanager#ProductInformationList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformation"
     }
},
"com.amazonaws.licensemanager#ProvisionalConfiguration": {
    "type": "structure",
    "members": {
```

"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the provisional configuration, in minutes. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details about a provisional configuration. "
}
},
"com.amazonaws.licensemanager#RateLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "RateLimitExceeded",
"httpResponseCode": 429
},
"smithy.api#documentation": " Too many requests have been submitted. Try again after a brief wait. ",
"smithy.api#error": "client",
"smithy.api#httpError": 429
}
},
"com.amazonaws.licensemanager#ReceivedMetadata": {
"type": "structure",
"members": {
"ReceivedStatus": {
"target": "com.amazonaws.licensemanager#ReceivedStatus",
"traits": {
"smithy.api#documentation": " Received status. "
}
},
"ReceivedStatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Received status reason. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",

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            "traits": {
                "smithy.api#documentation": "<p>Allowed operations.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Metadata associated with received licenses and grants.</p>"
    }
},
"com.amazonaws.licensemanager#ReceivedStatus": {
    "type": "enum",
    "members": {
        "PENDING_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_WORKFLOW"
            }
        },
        "PENDING_ACCEPT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue":
"PENDING_ACCEPT"
            }
        },
        "REJECTED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "REJECTED"
            }
        },
        "ACTIVE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "ACTIVE"
            }
        },
        "FAILED_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "FAILED_WORKFLOW"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
```

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        },
        "DISABLED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DISABLED"
            }
        },
        "WORKFLOW_COMPLETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "WORKFLOW_COMPLETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#RedirectException": {
    "type": "structure",
    "members": {
        "Location": {
            "target": "com.amazonaws.licensemanager#Location",
            "traits": {
                "smithy.api#httpHeader": "Location"
            }
        },
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 308
    }
},
"com.amazonaws.licensemanager#RejectGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#RejectGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#RejectGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target":
"com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#RejectGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}

  }
    },
    "com.amazonaws.licensemanager#RejectGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
```

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                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#RenewType":
{
        "type": "enum",
        "members": {
            "NONE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "None"
                }
            },
            "WEEKLY": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Weekly"
                }
            },
            "MONTHLY": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Monthly"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ReportContext": {
        "type": "structure",
        "members": {
            "licenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
```

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration that this generator reports on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details of the license configuration that this generator reports on. "
}
},
"com.amazonaws.licensemanager#ReportFrequency": {
"type": "structure",
"members": {
"value": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Number of times within the frequency period that a report is generated. \n The only supported value is <code>1</code>. "
}
},
"period": {
"target": "com.amazonaws.licensemanager#ReportFrequencyType",

"traits": {
"smithy.api#documentation": " Time period between each report. The period can be daily, weekly, or monthly. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"com.amazonaws.licensemanager#ReportFrequencyType": {
"type": "enum",
"members": {
"DAY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DAY"
}
},
"WEEK": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "WEEK"
}
},

"MONTH": {
"target": "smithy.api#Unit",
"traits":
{
"smithy.api#enumValue": "MONTH"
}
}
}
},
"com.amazonaws.licensemanager#ReportGenerator": {
"type": "structure",
"members": {
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the report generator. "
}
},
"ReportType": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports that are generated. "
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " License
configuration type for this generator. "
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. "
}
},
"LastRunStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the last report generation attempt. "
}

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            },
            "LastRunFailureReason":
 {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Failure message for the last report generation attempt.</p>"
                }
            },
            "LastReportGenerationTime": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Time the last report was generated at.</p>"
                }
            },
            "ReportCreatorAccount": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Web Services account ID used to create the report
generator.</p>"
                }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",

        "traits": {
                    "smithy.api#documentation": "<p>Description of the report generator.</p>"
                }
            },
            "S3Location": {
                "target": "com.amazonaws.licensemanager#S3Location",
                "traits": {
                    "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
                }
            },
            "CreateTime": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Time the report was created.</p>"
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Tags associated with the report generator.</p>"
                }
```

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}
    },
    "traits": {
        "smithy.api#documentation": "<p>Describe the details of a report generator.</p>"
    }
},
"com.amazonaws.licensemanager#ReportGeneratorList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ReportGenerator"
    }
},
"com.amazonaws.licensemanager#ReportGeneratorName": {
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#ReportType": {
    "type": "enum",
    "members": {
        "LICENSE_CONFIGURATION_SUMMARY_REPORT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "LicenseConfigurationSummaryReport"
            }

},
        "LICENSE_CONFIGURATION_USAGE_REPORT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "LicenseConfigurationUsageReport"
            }
        }
    }
},
"com.amazonaws.licensemanager#ReportTypeList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ReportType"
    }
},
"com.amazonaws.licensemanager#ResourceInventory": {
    "type": "structure",
    "members": {
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            "ResourceId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits":
{
                    "smithy.api#documentation": "<p>Type of resource.</p>"
                }
            },
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "Platform": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Platform of the resource.</p>"
                }
            },
            "PlatformVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Platform version of the resource in the inventory.</p>"
                }
            },
            "ResourceOwningAccountId":
{
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#ResourceInventoryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ResourceInventory"
        }
```

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},
"com.amazonaws.licensemanager#ResourceLimitExceededException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "ResourceLimitExceeded",

         "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>Your resource limits have been exceeded.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceNotFoundException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "InvalidResource.NotFound",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The resource cannot be found.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceType": {
    "type": "enum",
     "members": {
        "EC2_INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_INSTANCE"
            }
        },
        "EC2_HOST": {
            "target": "smithy.api#Unit",
            "traits": {
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"smithy.api#enumValue": "EC2_HOST"
}
},
"EC2_AMI": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "EC2_AMI"
}
},
"RDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "RDS"
}
},
"SYSTEMS_MANAGER_MANAGED_INSTANCE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
}
}
}
},
"com.amazonaws.licensemanager#S3Location": {
"type": "structure",
"members": {
"bucket": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the S3 bucket reports are published to. "
}
},
"keyPrefix": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Prefix of the S3 bucket reports are published to. "
}
}
},
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"com.amazonaws.licensemanager#ServerInternalException": {
"type": "structure",
"members": {
"Message": {

"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InternalError",
"httpResponseCode": 500
},
"smithy.api#documentation": " The server experienced an internal error. Try again. ",
"smithy.api#error": "server",
"smithy.api#httpError": 500
}
},
"com.amazonaws.licensemanager#SignedToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 4096
}
}
},
"com.amazonaws.licensemanager#StatusReasonMessage": {
"type": "string",
"traits":
{
"smithy.api#length": {
"min": 0,
"max": 400
},
"smithy.api#pattern": "^[\\s\\S]+$"
}
},
"com.amazonaws.licensemanager#String": {
"type": "string"
},
"com.amazonaws.licensemanager#StringList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#String"
}
},
"com.amazonaws.licensemanager#Tag": {
"type": "structure",
"members": {
"Key": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Tag key. "

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            }
          },
          "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation":
"<p>Tag value.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
      },
      "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#String"
        }
      },
      "com.amazonaws.licensemanager#TagList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#Tag"
        }
      },
      "com.amazonaws.licensemanager#TagResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#TagResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#TagResourceResponse"
        },
        "errors": [
          {
            "target":
"com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
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            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits":
 {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>One or more tags.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#TagResourceResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#TokenData": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
```

"TokenType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Type of token generated. The supported value is <code>REFRESH_TOKEN</code>. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"ExpirationTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Token expiration time, in ISO8601-UTC format. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller. "
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the roles included in the token. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token status. The possible values are <code>AVAILABLE</code> and <code>DELETED</code>. "
}
}
},
"traits": {

"smithy.api#documentation": " Describes a token. "
}
},
"com.amazonaws.licensemanager#TokenList": {
"type": "list",

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        "member": {
            "target": "com.amazonaws.licensemanager#TokenData"
        }
    },
    "com.amazonaws.licensemanager#TokenString": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 4096
            },
            "smithy.api#pattern": "^\\S+$"
        }
    },
    "com.amazonaws.licensemanager#TokenType": {
        "type": "enum",
        "members": {
            "REFRESH_TOKEN": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "REFRESH_TOKEN"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException":
{
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The digital signature method is unsupported. Try your request
again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#UntagResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UntagResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UntagResourceResponse"
        },
```

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        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Removes the specified tags from the specified license
configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#UntagResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "TagKeys": {
                "target": "com.amazonaws.licensemanager#TagKeyList",
                "traits": {
                    "smithy.api#documentation": "<p>Keys identifying the tags to remove.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#UntagResourceResponse": {
        "type": "structure",
        "members": {},
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"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Modifies the attributes of an existing license configuration. "
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},

"LicenseConfigurationStatus": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
"traits": {
"smithy.api#documentation": " New status of the license configuration. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {

"smithy.api#documentation": " New license rule. The only rule that you can add after you create a license\n configuration is licenseAffinityToHost. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " New number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " New hard limit of the number of available licenses. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New description of the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " New product information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",

"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
}
},
"traits":
{
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},

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            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates a report generator.</p>\n        <p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to update.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportGeneratorName": {
                "target": "com.amazonaws.licensemanager#ReportGeneratorName",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the report generator.</p>",
                    "smithy.api#required": {}
                }
            },
            "Type": {
                "target": "com.amazonaws.licensemanager#ReportTypeList",
                "traits": {
                    "smithy.api#documentation": "<p>Type of reports to generate. The following report types are supported:</p>\n        <ul>\n            <li>\n                <p>License configuration report - Reports the number and details of consumed licenses for a license configuration.</p>\n            </li>\n            <li>\n                <p>Resource report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n            </li>\n        </ul>",
                    "smithy.api#required": {}
                }
            },
            "ReportContext": {
                "target": "com.amazonaws.licensemanager#ReportContext",
                "traits": {
                    "smithy.api#documentation": "<p>The report context.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportFrequency": {
                "target": "com.amazonaws.licensemanager#ReportFrequency",
```

"traits":
{
"smithy.api#documentation": " Frequency by which reports are generated. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse":
{
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

```
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },

            {
                "target": "com.amazonaws.licensemanager#InvalidResourceStateException"
            },
            {
                "target": "com.amazonaws.licensemanager#LicenseUsageException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds or removes the specified license configurations for the specified
Amazon Web Services resource.</p>\n        <p>You can update the license specifications of AMIs, instances, and
hosts.\n        You cannot update the license specifications for launch templates and CloudFormation templates, \n
  as they send license configurations to the operation that creates the resource.</p>"
        }
    },

    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon Web Services
resource.</p>",
                    "smithy.api#required": {}
                }
            },
            "AddLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
                }
            },
            "RemoveLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation":
 "<p>ARNs of the license configurations to remove.</p>"
                }
```

```
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
    "type": "structure",
    "members": {},
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#UpdateServiceSettings": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
         },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Updates License Manager settings for the current Region.</p>"
    }
},
"com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
    "type": "structure",
    "members": {
        "S3BucketArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon S3 bucket where the License
Manager information is stored. "
}
},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {
"smithy.api#documentation": " Enables integration with Organizations for cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Activates cross-account discovery. "

}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UsageOperation": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
}
}
},
"com.amazonaws.licensemanager#ValidationException": {

"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The provided input is not valid. Try your request again. ",

"smithy.api#error": "client",
"smithy.api#httpError": 400
}
}
}
}

1.4501 jackspeak 3.4.3

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1.4502 x-crypto 0.25.0

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1.4503 cel-go 0.20.1

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1.4504 gokrb5 8.4.4

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1.4505 prometheus-client 1.19.1

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1.4509 x-net 0.27.0

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1.4510 pyasyncore 1.0.4

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1.4511 commons-compiler 3.1.12

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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Built-By: unkrig.arno
Build-Jdk: 11.0.11
Automatic-Module-Name: org.codehaus.commons.compiler
Bnd-LastModified: 1707216437998
Bundle-Description: Janino is a super-small, super-fast Java compiler.
Bundle-License: https://spdx.org/licenses/BSD-3-Clause.html
Bundle-ManifestVersion: 2
Bundle-Name: commons-compiler
Bundle-SymbolicName: org.codehaus.janino.commons-compiler;singleton:=tru
e
Bundle-Version: 3.1.12
Export-Package: org.codehaus.commons.compiler;uses:="org.codehaus.common
s.compiler.util.resource";version="3.1.12",org.codehaus.commons.compile
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Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-2.4.1.201501161923

Name: org/codehaus/commons/compiler/java8/java/util/function/Consumer.cl
ass
SHA-256-Digest: yyveVEyFFznSQYhk/ThAMZf9h4hrGi3QTjlXLTNPgwI=

Name: org/codehaus/commons/compiler/ICookable.class
SHA-256-Digest:
32vG7aPguRuIQEuUnKrVgxcWYJj6wxa0yRg8O+MeMrA=

Name: org/codehaus/commons/compiler/util/iterator/Iterables$State.class
SHA-256-Digest: cq2iXwXXF4h0cGl42a/DtDKq1OFc7Hl4lSzLWq+lH90=

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Name: org/codehaus/commons/compiler/util/iterator/DirectoryIterator$Dire
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SHA-256-Digest: o3MW3m1RDe9svXBxY5wsClrkkL/QI18PQtthruwj+00=

Name: org/codehaus/commons/compiler/util/iterator/Iterables$1.class
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SHA-256-Digest: dpA+Sj/QxfZpRmStLDLCIsHq1Je5rB4cSnutV2mQw+8=

Name: org/codehaus/commons/compiler/lang/ClassLoaders$SubresourceGetter.
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SHA-256-Digest: iNXvfqtD3mfF2+59DU3uaSg7W2xuTDzOAmJHCAOkPJ4=

Name: org/codehaus/commons/compiler/WarningHandler.class
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Name: org/codehaus/commons/compiler/util/resource/JarDirectoriesResource
Finder$1$2.class
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Name: org/codehaus/commons/compiler/util/iterator/Iterables$4.class
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SHA-256-Digest: tpVRkNN9D+lPiEvSt9Om32dvWcUDRJdEpJbDI67hjUs=

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tion.class
SHA-256-Digest: q2MReObp0oubyls2AJSVd7qcUl/wRzmAGo7iYrFRS1c=

Name: org/codehaus/commons/compiler/util/iterator/EnumerationIterator.cl
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Name: org/codehaus/commons/compiler/util/resource/ResourceCreator.class
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Name: org/codehaus/commons/compiler/util/StringUtil.class
SHA-256-Digest: 3NBN0lHWjSBoV3WhbKGDOTnKjtrLOpL9nskNv0cSub0=

Name: org/codehaus/commons/compiler/util/resource/ResourceFinders$3.clas
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Name: org/codehaus/commons/compiler/IScriptEvaluator.class
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Name: org/codehaus/commons/nullanalysis/NotNullByDefault.class
SHA-256-Digest: 3RP06upgNA3K+Po7P+UINCgiMVw2fXG6+XrH74X4/aw=

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o.class
SHA-256-Digest: 24j2YGIrnZujbyNadDNASLhAUslfS/NAyIxXr62P4vY=

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Name: org/codehaus/commons/compiler/util/iterator/DirectoryIterator.clas

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SHA-256-Digest: W8HpUGbUvlNzwtJQk4vI+2MCCHjTPNoCkG2gQJwgZqI=

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lass
SHA-256-Digest: 54LcZZdQIrSL5UIuDyUaOrDL4ydN0Qadz4seNHY9QhI=

Name: org/codehaus/commons/compiler/util/iterator/DirectoryIterator$1.cl
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SHA-256-Digest: 3ZhbusbqiYyoZeOQ4JZB+Ue4xLI2Yp/Venh6EGcE+Ic=

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SHA-256-Digest: XUgeTVaI1q2fVV4dC2yXrYqINeZowXlfsAwhLXXoZKI=

Name: org/codehaus/commons/compiler/lang/ClassLoaders.class
SHA-256-Digest: FBvOKR7DdXl3Qca3hKrJR7G6k422znxBzf3YclWrGhQ=

Name: org/codehaus/commons/compiler/util/SystemProperties.class
SHA-256-Digest: 4uVNpErKx5gvdI69PT3FFAPnQQ9Hy2pVbaDVVVTgn6U=

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Finder.class
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Name: org/codehaus/commons/compiler/samples/ShippingCost.class
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Name: org/codehaus/commons/compiler/util/reflect/package-info.class
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Name: org/codehaus/commons/compiler/util/iterator/TransformingIterator.c
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Name: org/codehaus/commons/compiler/util/iterator/MultiIterator.class
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Name: org/codehaus/commons/compiler/util/resource/LazyMultiResourceFinde
r.class
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Name: org/codehaus/commons/compiler/util/resource/MapResourceFinder$1.cl
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SHA-256-Digest: 46x2Qcs9xOpDKnNLWXtw6LnpiQV2ErmEPvowZeAodD4=

Name: org/codehaus/commons/compiler/lang/ClassLoaders$2.class
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Name: org/codehaus/commons/compiler/io/Readers$4.class
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Name: org/codehaus/commons/compiler/util/resource/DirectoryResourceFinde
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SHA-256-Digest: mmPEvjAFzmQGRMvcv3Wf8/H+xtICeFhhm7eK2UpjiHg=

Name: org/codehaus/commons/compiler/InternalCompilerException.class
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SHA-256-Digest: A2IL/oDadQcS2N/cRCsd/vixYl/UhoP+eZgntzhBXIg=

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tionDomainFactory.class
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Name: org/codehaus/commons/compiler/samples/package-info.class
SHA-256-Digest: TpFegjd0zcgyuM9fG7+wf1Sl3SBAgH0OTntXkLPdX+A=

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SHA-256-Digest: EEOUtQZVgufQcUDUzA+TRA02MDLK28ABKHn1AjBNJO4=

Name: org/codehaus/commons/compiler/util/Benchmark$Reporter.class
SHA-256-Digest: lj/jmnOX43C786kuFqlPeMLnMNv3wk93N+R7LEUQeZU=

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org/codehaus/commons/compiler/util/resource/LocatableResource.clas
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SHA-256-Digest: PUsSBL1RPUQjFDOnQqLEsBFwjUEqj36aqx4YrUqx8Gc=

Name: org/codehaus/commons/compiler/util/iterator/MultiDimensionalIterat
or.class
SHA-256-Digest: ByAMXrWz1pywojfID83/0txlEinv2iQRFZg8kp+8R24=

Name: org/codehaus/commons/compiler/util/LineAndColumnTracker.class
SHA-256-Digest:

5BW1/fnkmqU0pAYBgdSl53PGXZDbKWyPRNncXNQ2vXs=

Name: org/codehaus/commons/compiler/util/iterator/Iterables$3.class
SHA-256-Digest: ckonoGZRo9dGxsH5RgSaJC5aOl/iGKR6FsKtEjGxE48=

Name: org/codehaus/commons/compiler/IExpressionEvaluator.class
SHA-256-Digest: dUJlKL6ZflMchAZR64zPkFEWBIV8cYQRszB28tfUFOE=

Name: org/codehaus/commons/compiler/Location.class
SHA-256-Digest: ncdXUj4FBCmKQ7o+0wt0sbctEjUOR4FCCvidxLx/dYs=

Name: org/codehaus/commons/compiler/util/resource/ResourceFinders$1.clas
s
SHA-256-Digest: UjjEm4uDeVfU+KnTtoNWHjmsJ60TwhK0uWJ6uIREEuU=

Name: org/codehaus/commons/compiler/IMultiCookable.class
SHA-256-Digest: Er2fAVQ9gBdUgHPw1W+UPENWF5As8EIytfYawXNq2Uo=

Name: org/codehaus/commons/compiler/java8/java/util/package-info.class
SHA-256-Digest: fFVZJl03fcO1loQDdzsE83DpCpzuurzbgvcVemHTJHk=

Name: org/codehaus/commons/compiler/util/Producer.class
SHA-256-Digest: jvb44Ya4BrDZxty4fqsWe3noksi4iAFxvHtsFmjofWM=

Name: org/codehaus/commons/compiler/ICompiler$2.class
SHA-256-Digest: si5f3R8haA+j4Wi2uorNgKyJukPNZmiJRv81hxgm1CA=

Name:
org/codehaus/commons/compiler/package-info.class
SHA-256-Digest: 887eVzf0DbArS+JAVXdw7M7oaKNUVo50RY8WjZh8hN0=

Name: org/codehaus/commons/compiler/util/resource/PathResourceFinder$1.c
lass
SHA-256-Digest: dxPSHpVFS/57wzUbQ81tepv1JfnRiuvPpxbYDNd6y7A=

Name: org/codehaus/commons/compiler/util/resource/ListableResourceFinder
.class
SHA-256-Digest: vTesI9l+7efRN/LKdCH7DUYacEe5WE2UIYm38EKNv3s=

Name: org/codehaus/commons/compiler/samples/CompilerDemo.class
SHA-256-Digest: dqLwQNd2dK9yH9vaRHiEvucwLzhCp5NI2HiaamtQWR8=

Name: org/codehaus/commons/compiler/io/InputStreams.class
SHA-256-Digest: VkXB74W7MBSjy5Kyj4CspOfw8UuxLeNTjJ86PpOZH2w=

Name: org/codehaus/commons/compiler/util/resource/ResourceFinders$2.clas
s
SHA-256-Digest: b+T7rYzgGyJEhXhV7g1jM9p4HzGjZzMWbSlf6Mz2+RM=

Name: org/codehaus/commons/compiler/Sandbox$1.class
SHA-256-Digest: AwOwlvN5hagkaIO1JY5+j9JkLeOMJN4CL+xG/AsPRnE=

Name: org/codehaus/commons/compiler/util/resource/FileResourceFinder.cla
ss
SHA-256-Digest: lUNwSdgY461ISzd4+EqaYP+fzZg+d8mJGRqYHJW/iLA=

Name: org/codehaus/commons/compiler/io/Readers$2.class
SHA-256-Digest: L7/kQpRVycMyAG4FFNh7d2iMt5Jzpq5nTApQsbBucEk=

Name: org/codehaus/commons/compiler/AbstractCompilerFactory.class
SHA-256-Digest: xMuC5AGMazavoPychGQ50aO8zUoomAIc5/znPaUm5T8=

Name: org/codehaus/commons/compiler/util/resource/Resource.class
SHA-256-Digest: 8wWK9rWF796+mRllHfZunNGWhqaBpnJcb85Goi8l17U=

Name: org/codehaus/commons/compiler/util/reflect/ApiLog.class
SHA-256-Digest: U6pUX63nFLE/Cd1cnK7ykjFJ4pkt/4JyQTvBUA8KeEA=

Name: org/codehaus/commons/compiler/util/Benchmark.class
SHA-256-Digest: 0j71zOYfv+3Q/TL5VnCRI/mrjbasPuRtmbZsc/oN6hY=

Name: org/codehaus/commons/compiler/util/reflect/Classes.class
SHA-256-Digest: h1gDDH5c9vl8OxtW6l4VZKVn/zzPqT9YqLBkUb9YM8A=

Name: org/codehaus/commons/compiler/util/iterator/package-info.class
SHA-256-Digest: nUfKAGwAmGnRd++1P7sgHLBTZASpPtJqy2XSfLkqO6A=

Name: org/codehaus/commons/compiler/util/reflect/ByteArrayClassLoader.cl
ass
SHA-256-Digest: Qz/H3/NnWZiz9kv+vET1yu2zkigZ092Oi+qgqX0yoGM=

Name: org/codehaus/commons/compiler/lang/ClassLoaders$3.class
SHA-256-Digest: 5A6ZKvkzxjttJjC87ueediHXvSjw5J9brND7LQWwFco=

Name: org/codehaus/commons/compiler/util/resource/MapResourceCreator.cla
ss
SHA-256-Digest: Y9yO0Cz1B22XLnBLsZVSaBaM1Wt8tPTFspzSCcmT5aA=

Name: org/codehaus/commons/compiler/util/iterator/Iterables.class
SHA-256-Digest: YIBZCwwaqPcj6D4z70K0hZVWQGLJzZsjUrNpS2XxJ7E=

Name: org/codehaus/commons/compiler/util/resource/MapResourceFinder.clas
s
SHA-256-Digest: c7GR2rnbUk+f4SG+oHCp9FdAKxoqVKesN38XyFQWEbk=

Name: org/codehaus/commons/compiler/java8/java/util/Optional.class

SHA-256-Digest: W32nYlWVBYiEBja2XIsN1Iq2BnrzebjKuHTPBA7mERU=

Name: org/codehaus/commons/compiler/MultiCookable.class
SHA-256-Digest: SAKw5alTn/OI4x9ycA33I+rtJd8386T9lfORG/Puns4=

Name: org/codehaus/commons/compiler/util/resource/ResourceFinders.class
SHA-256-Digest: sp/qKLc7WHRlItLK+GeCZK0gqXYjt15SltvtPDL0KXI=

Name:
 org/codehaus/commons/compiler/util/iterator/FilterListIterator.cla
ss
SHA-256-Digest: iuxi0gtsbwHdhGcvvHXB2ZwI1i5NGS9WUv0FdVXv6T4=

Name: org/codehaus/commons/compiler/util/iterator/Iterables$5.class
SHA-256-Digest: /+thSN7/idRqf8CNwLz08cHtmAaqKpFWqCZEuTMRr0c=

Name: org/codehaus/commons/compiler/ICompiler.class
SHA-256-Digest: KmDjbsJE/ke99Nc0iUza4niHKfHJlVNchii+Q8kIP/Q=

Name: org/codehaus/commons/compiler/samples/DemoBase.class
SHA-256-Digest: ZZpcepcTatG3QHJWNzeWF1ym7VWvBLqV4n3YFemKMlg=

Name: org/codehaus/commons/compiler/ICompilerFactory.class
SHA-256-Digest: Bzf7xD7rSDoGcPMoLY/8mMcCqWHGzTopgBBmYq1APus=

Name: org/codehaus/commons/compiler/lang/package-info.class
SHA-256-Digest: EqKZiOPNP2EG/RQBp6yl+2j/MfigO0HE2+XeOSjb+cQ=

Name: org/codehaus/commons/compiler/util/iterator/IteratorCollection.cla
ss
SHA-256-Digest: Dmm/9J3q70H+ohm1oZW8T/lpxWXYka8IZl/eVTFdjpE=

Name: org/codehaus/commons/compiler/util/resource/ZipFileResourceFinder.
class
SHA-256-Digest: sOphxLr5U2orDT8VC8hnSJ5Ap4Fs157GThHNz4oClgo=

Name:
 org/codehaus/commons/compiler/util/iterator/ProducerIterator.class
SHA-256-Digest: C9LbdyBRHMiPnMOdSppWv5Wr7oa6tZ7Warw8w+c/qfc=

Name: org/codehaus/commons/compiler/AbstractJavaSourceClassLoader.class
SHA-256-Digest: AL929CU0G8T0y6Perz9FMMIjBa/RooBb8Se7HC+hG4Y=

Name: org/codehaus/commons/compiler/util/reflect/ApiLog$1.class
SHA-256-Digest: ZNuC3cywNn0vlqZQxVQzjgdrXiNatizEcZvspeJ0htM=

Name: org/codehaus/commons/compiler/util/Benchmark$1.class
SHA-256-Digest: 3EOtYw0o0CkK0PJSq5NISlxRvhY5FriwOqBZZELbstE=

Name: org/codehaus/commons/compiler/ErrorHandler.class
SHA-256-Digest: bgYLFtUx61nbqZvjuGYdIXs1P/0sftEcyreBXqGfej0=

Name: org/codehaus/commons/compiler/java8/java/util/stream/Stream.class
SHA-256-Digest: SEW5e7l++Y1k7OeDaN5S4UYt1CpzoP/8R3XKc/dB0Io=

Name: org/codehaus/commons/compiler/util/resource/ResourceFinders$4.clas
s
SHA-256-Digest: YjS7jWfLzjUBhPloJjzYluTw7l06QzgyfRT78rYAvQw=

Name: org/codehaus/commons/compiler/samples/ScriptDemo.class
SHA-256-Digest:
 g2nL2OzC6Ey05cJNjJMVyD+6EvM8yAjhJXZMNgyi/2I=

Name: org/codehaus/commons/compiler/util/resource/ZipFileResourceFinder$
1.class
SHA-256-Digest: HdsrK6I+aKU95gI2ibJTkixBpyrc/85ZZWg9BuqtPF4=

Name: org/codehaus/commons/compiler/util/resource/StringResource.class
SHA-256-Digest: R7gaVCuO0Gr4cPPlasaX89oEwdI6rWnNVvvOaFaoEBU=

Name: org/codehaus/commons/compiler/util/iterator/DirectoryIterator1St
ate.class
SHA-256-Digest: 53rHiBMyDO9kuaiMI/idefkdv+p7xDZ95TEuQNZB4t0=

Name: org/codehaus/commons/compiler/util/StringPattern.class
SHA-256-Digest: YUvjzsiZqyu0bnf1sxP5TSOyIEpVSwLydfm64OAlxtI=

Name: org/codehaus/commons/nullanalysis/NotNull.class
SHA-256-Digest: k9YrBG/+DemF1QfxI+dDJ5P0MU7CkEDFntxYMbyV3AY=

Name: org/codehaus/commons/compiler/io/Readers.class
SHA-256-Digest: go0B+M5FQNIPLHiOx+TFzp92k0xq11P2sRKagE82Swo=

Name: org/codehaus/commons/compiler/util/resource/PathResourceFinder.cla
ss
SHA-256-Digest: k/VEMCAeSL/tmIirtbZFjR5A3doIpZqQ6qn5qxd+6KA=

Name: org/codehaus/commons/compiler/util/resource/ResourceFinder.class
SHA-256-Digest:
 xZUoZD8WaeS6f5C2bSWD9AYOp2j8+TEk7CHbDnWa1jU=

Name: org/codehaus/commons/compiler/io/Readers$1.class
SHA-256-Digest: KXW85uGRvj60RDhpniO7eCpx2bRLHH5Y9wIyS6IoNcs=

Name: org/codehaus/commons/compiler/java9/java/lang/module/package-info.
class

SHA-256-Digest: k6E2eHaJkpny9dqcVEy/WMqCsFDA65Aqgqj/enWeXuE=

Name: org/codehaus/commons/compiler/util/ResourceFinderClassLoader.class
SHA-256-Digest: ildJffilEKrtjPgoRZEKDvT4uVw3I1HSjmtgyjVUi6I=

Name: org/codehaus/commons/compiler/util/iterator/MultiDimensionalIterat
or$1.class
SHA-256-Digest: vxMcroasCjCRbi5XRDHeXVZmPbmVvGr9uQRDO9wiwK4=

Name: org/codehaus/commons/compiler/util/resource/DirectoryResourceCreat
or.class
SHA-256-Digest: KcUOrZXRD61R4MBVw7Xepk25FFaE5/1Stue8JPqYSsc=

Name: org/codehaus/commons/compiler/util/LineAndColumnTracker$1.class
SHA-256-Digest: sJX8ub/Yg/MuKfSjo5EFiqdOMznnoC8t9nJ5cl6nv8Q=

Name: org/codehaus/commons/compiler/java8/java/util/function/Consumers.c
lass
SHA-256-Digest:
nphMP3BopRV+TGLfPq0bDipCLVvg2PYspEhIWHCwr/k=

Name: org/codehaus/commons/compiler/ISimpleCompiler.class
SHA-256-Digest: uOn2B3lVJsQSBUuNM3LjiixU22pRxfpqf4336eoSfTQ=

Name: org/codehaus/commons/compiler/util/resource/JarDirectoriesResource
Finder$1$1.class
SHA-256-Digest: 0JNEzu68SHOTz3VPiC1wylZXtYCt0EAikHznsbUjpwM=

Name: org/codehaus/commons/compiler/util/reflect/Proxies.class
SHA-256-Digest: kln8nCUT5BUMc7A5r3TihMeRkrgsoLd4IEbb8s5UiSw=

Name: org/codehaus/commons/compiler/java9/java/lang/module/ModuleReader.
class
SHA-256-Digest: Ug6Oowwq0uvLgpWvdJkygJfVxDFK1qnndO9WtLaedh8=

Name: org/codehaus/commons/compiler/java8/java/util/stream/package-info.
class
SHA-256-Digest: kTcAF1pQdiBpSVyMogGfsCR6e+PEbbGIm1XULCNvOi8=

Name: org/codehaus/commons/compiler/LocatedException.class
SHA-256-Digest: JeoWpqsowCKvH1RHc4W1gOyXl1VU950e5e4nMK3TKkI=

Name: org/codehaus/commons/compiler/java9/java/lang/module/ModuleFinder.
class
SHA-256-Digest: FlXVZtN+k9LalfH2u1BOYTARE9OHNEVeicIwG1mv7QY=

Name:

META-INF/maven/org.codehaus.janino/commons-compiler/pom.xml
SHA-256-Digest: 6ytRku4iUhF5relVo1mE29vgINaAYoiYszBtTdtYYt4=

Name: org/codehaus/commons/compiler/java9/java/lang/module/ModuleReferen
ce.class
SHA-256-Digest: HXbYQ2CarCiX0D6pyvM/HVPxmafZBvQIrjOcTU/6YkA=

Name: org/codehaus/commons/compiler/util/iterator/ReverseListIterator.cl
ass
SHA-256-Digest: Fx+FnOg8G9m+8sftGoAu8YOpDvIuGmAJU55VJjFiab0=

Name: org/codehaus/commons/compiler/util/package-info.class
SHA-256-Digest: C9vc+36HM1x0VojExw9PxcqqrZrGXhBb9zvaNx/tqRM=

Name: org/codehaus/commons/nullanalysis/Nullable.class
SHA-256-Digest: Mqsw7uauFjZwHuVvN/3oU6fA3JxM+ZymUsp1MUCV8c0=

Name: org/codehaus/commons/compiler/AbstractCompiler$1.class
SHA-256-Digest: OsExRpzNvgtq58frHRk7aCGjROnX2DUZf4HeJ0/xu7c=

Name: org/codehaus/commons/compiler/samples/ExpressionDemo.class
SHA-256-Digest: mP1rzusynCzmHGYn7112pk4GBd23kLmFGMeSJJ74LYc=

Found in path(s):
* /opt/cola/permits/2092972651_1720702009.267709/0/commons-compiler-3-1-12-1-jar/META-INF/MANIFEST.MF

1.4512 jackson-jaxrs-base 2.16.0

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1.4513 error_prone_annotations 2.21.1

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Manifest-Version: 1.0
Created-By: Maven JAR Plugin 3.2.2

Build-Jdk-Spec: 17
Automatic-Module-Name: com.google.errorprone.annotations
Bundle-Description: Error Prone is a static analysis tool for Java that
catches common programming mistakes at compile-time.
Bundle-DocURL: https://errorprone.info/error_prone_annotations
Bundle-License: "Apache 2.0";link="http://www.apache.org/licenses/LICENS
E-2.0.txt"
Bundle-ManifestVersion: 2
Bundle-Name: error-prone annotations
Bundle-SCM: url="https://github.com/google/error-prone/error_prone_annot
ations",connection="scm:git:https://github.com/google/error-prone.git/e
rror_prone_annotations",developer-connection="scm:git:git@github.com:go
ogle/error-prone.git/error_prone_annotations",tag=HEAD
Bundle-SymbolicName: com.google.errorprone.annotations
Bundle-Vendor: Google LLC
Bundle-Version: 2.21.1
Export-Package: com.google.errorprone.annotations;uses:="javax.lang.mode
l.element";version="2.21.1",com.google.errorprone.annotations.concurren
 t;version="2.21.1"
Import-Package: javax.lang.model.element
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"

Found in path(s):
* /opt/cola/permits/2092972302_1720701839.1699233/0/error-prone-annotations-2-21-1-3-jar/META-INF/MANIFEST.MF
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```
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 -->
```

Found in path(s):
* /opt/cola/permits/2092972302_1720701839.1699233/0/error-prone-annotations-2-21-1-3-jar/META-INF/maven/com.google.errorprone/error_prone_annotations/pom.xml

1.4514 jackson-jaxrs 2.16.0

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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It is currently developed by a community of developers, as well as supported
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Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

1.4515 node-gyp 10.2.0

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1.4519 simonpasquier-klog-gokit 0.3.0

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1.4520 xsdlib 2022.7

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* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/FractionDigitsFacet.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/StringType.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/FinalComponent.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-

jar/com/sun/msv/datatype/xsd/ConcreteType.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/WhiteSpaceProcessor.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/Base64BinaryType.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/NmtokenType.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/datetime/CalendarFormatter.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/FloatingNumberType.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/MaxExclusiveFacet.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/Proxy.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/GMonthDayType.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/TokenType.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/MaxInclusiveFacet.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/IntType.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/QnameType.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/DataTypeWithFacet.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/DatabindableDatatype.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/Discrete.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/GMonthType.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/datetime/AbstractCalendarParser.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/datetime/BigTimeDurationValueType.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/NcnameType.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/RangeFacet.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/NumberType.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/datetime/CalendarParser.java

* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/DateTimeType.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/regex/RegExpFactory.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/datetime/TimeZone.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/regex/RegExp.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/IntegerDerivedType.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/LongType.java
*
/opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/AnyURIType.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/ShortType.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/EntityType.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/QnameValueType.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/regex/JDK50Impl.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/MinExclusiveFacet.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/MaxLengthFacet.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/datetime/PreciseCalendarFormatter.java
*
/opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/datetime/BigDateTimeValueType.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/regex/XercesImpl.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/ErrorType.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/MinInclusiveFacet.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/ngimpl/DatatypeBuilderImpl.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/HexBinaryType.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/GDayType.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/NonNegativeIntegerType.java
*

/opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/NormalizedStringType.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/datetime/IDateTimeValueType.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/UnicodeUtil.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/TypeIncubator.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/TimeType.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/datetime/AbstractCalendarFormatter.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/ListType.java
*
/opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/PositiveIntegerType.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/IntegerType.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/WhiteSpaceFacet.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/DataTypeWithValueConstraintFacet.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/IntegerValueType.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/XSDatatypeImpl.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/regex/JDKImpl.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/LanguageType.java
*
/opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/IDType.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/UnsignedLongType.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/ListValueType.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/datetime/DateTimeFactory.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/datetime/ITimeDurationValueType.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/SimpleURType.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/BinaryBaseType.java
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* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/regexp/ParserForXMLSchema.java
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jar/com/sun/msv/datatype/regexp/REUtil.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-
jar/com/sun/msv/datatype/regexp/RegularExpression.java
*
 /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-
jar/com/sun/msv/datatype/regexp/ParseException.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-
jar/com/sun/msv/datatype/regexp/Token.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-
jar/com/sun/msv/datatype/regexp/BMPattern.java
* /opt/cola/permits/2096943601_1720886126.7124145/0/xsdlib-2022-7-sources-1-
jar/com/sun/msv/datatype/regexp/Op.java
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1.4521 aws-sdk-go 1.54.6

1.4521.1 Available under license :

{
 "version": "2.0",
 "service": " With License Manager, you can create user-based subscriptions to utilize licensed software with a per user subscription fee on Amazon EC2 instances. ",
 "operations": {
  "AssociateUser": " Associates the user to an EC2 instance to utilize user-based subscriptions. <note> Your estimated bill for charges on the number of users and related costs will take 48 hours to appear for billing

periods that haven't closed (marked as Pending billing status) in Amazon Web Services Billing. For more information, see Viewing your monthly charges in the Amazon Web Services Billing User Guide. </note>",
"DeregisterIdentityProvider": " Deregisters the identity provider from providing user-based subscriptions. ",
"DisassociateUser": " Disassociates the user from an EC2 instance providing user-based subscriptions. ",
"ListIdentityProviders":
" Lists the identity providers for user-based subscriptions. ",
"ListInstances": " Lists the EC2 instances providing user-based subscriptions. ",
"ListProductSubscriptions": " Lists the user-based subscription products available from an identity provider. ",
"ListUserAssociations": " Lists user associations for an identity provider. ",
"RegisterIdentityProvider": " Registers an identity provider for user-based subscriptions. ",
"StartProductSubscription": " Starts a product subscription for a user with the specified identity provider. <note> Your estimated bill for charges on the number of users and related costs will take 48 hours to appear for billing periods that haven't closed (marked as Pending billing status) in Amazon Web Services Billing. For more information, see Viewing your monthly charges in the Amazon Web
Services Billing User Guide. </note>",
"StopProductSubscription": " Stops a product subscription for a user with the specified identity provider. ",
"UpdateIdentityProviderSettings": " Updates additional product configuration settings for the registered identity provider. "
},
"shapes": {
"AccessDeniedException": {
"base": " You don't have sufficient access to perform this action. ",
"refs": {
}
},
"ActiveDirectoryIdentityProvider": {
"base": " Details about an Active Directory identity provider. ",
"refs": {
"IdentityProvider$ActiveDirectoryIdentityProvider": " An object that details an Active Directory identity provider. "
}
},
"AssociateUserRequest": {
"base": null,
"refs": {
}
},
"AssociateUserResponse": {
"base": null,
"refs": {
}
},
"BoxInteger": {

"base": null,
"refs": {
"ListIdentityProvidersRequest$MaxResults":
" Maximum number of results to return in a single call. ",
"ListInstancesRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListProductSubscriptionsRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListUserAssociationsRequest$MaxResults": " Maximum number of results to return in a single call. "
}
},
"ConflictException": {
"base": " The request couldn't be completed because it conflicted with the current state of the resource. ",
"refs": {
}
},
"DeregisterIdentityProviderRequest": {
"base": null,
"refs": {
}
},
"DeregisterIdentityProviderResponse": {
"base": null,
"refs": {
}
},
"DisassociateUserRequest": {
"base": null,
"refs": {
}
},
"DisassociateUserResponse": {
"base": null,
"refs": {
}
},
"Filter": {
"base": " A
filter name and value pair that is used to return more specific results from a describe operation. Filters can be used to match a set of resources by specific criteria, such as tags, attributes, or IDs. ",
"refs": {
"FilterList$member": null
}
},
"FilterList": {
"base": null,
"refs": {
"ListInstancesRequest$Filters": " An array of structures that you can use to filter the results to those that match one or more sets of key-value pairs that you specify. ",

"ListProductSubscriptionsRequest$Filters": " An array of structures that you can use to filter the results to those that match one or more sets of key-value pairs that you specify. ",
"ListUserAssociationsRequest$Filters": " An array of structures that you can use to filter the results to those that match one or more sets of key-value pairs that you specify. "
}
},
"IdentityProvider": {
"base": " Details about an identity provider. ",
"refs": {
"AssociateUserRequest$IdentityProvider": " The identity provider of the user. ",
"DeregisterIdentityProviderRequest$IdentityProvider": " An object that specifies details for the identity provider. ",
"DisassociateUserRequest$IdentityProvider": " An object that specifies details for the identity provider. ",
"IdentityProviderSummary$IdentityProvider": " An object that specifies details for the identity provider. ",
"InstanceUserSummary$IdentityProvider": " An object that specifies details for the identity provider. ",
"ListProductSubscriptionsRequest$IdentityProvider": " An object that specifies details for the identity provider. ",
"ListUserAssociationsRequest$IdentityProvider": " An object that specifies details for the identity provider. ",
"ProductUserSummary$IdentityProvider": " An object that specifies details for the identity provider. ",
"RegisterIdentityProviderRequest$IdentityProvider":
" An object that specifies details for the identity provider. ",
"StartProductSubscriptionRequest$IdentityProvider": " An object that specifies details for the identity provider. ",
"StopProductSubscriptionRequest$IdentityProvider": " An object that specifies details for the identity provider. ",
"UpdateIdentityProviderSettingsRequest$IdentityProvider": null
}
},
"IdentityProviderSummary": {
"base": " Describes an identity provider. ",
"refs": {
"DeregisterIdentityProviderResponse$IdentityProviderSummary": " Metadata that describes the results of an identity provider operation. ",
"IdentityProviderSummaryList$member": null,
"RegisterIdentityProviderResponse$IdentityProviderSummary": " Metadata that describes the results of an identity provider operation. ",
"UpdateIdentityProviderSettingsResponse$IdentityProviderSummary": null

}
},
"IdentityProviderSummaryList": {
"base": null,
"refs": {
"ListIdentityProvidersResponse$IdentityProviderSummaries": " Metadata that describes the list identity providers operation. "

```
    }
  },
  "InstanceSummary": {
    "base": "<p>Describes an EC2 instance providing user-based subscriptions.</p>",
    "refs": {
      "InstanceSummaryList$member": null
    }
  },
  "InstanceSummaryList": {
    "base": null,
    "refs": {
      "ListInstancesResponse$InstanceSummaries": "<p>Metadata that describes the list instances operation.</p>"
    }
  },
  "InstanceUserSummary": {
    "base": "<p>Describes users of an EC2 instance providing user-based subscriptions.</p>",
    "refs": {
      "AssociateUserResponse$InstanceUserSummary": "<p>Metadata that describes the associate user
operation.</p>",
      "DisassociateUserResponse$InstanceUserSummary": "<p>Metadata that describes the associate user
operation.</p>",

    "InstanceUserSummaryList$member": null
    }
  },
  "InstanceUserSummaryList": {
    "base": null,
    "refs": {
      "ListUserAssociationsResponse$InstanceUserSummaries": "<p>Metadata that describes the list user association
operation.</p>"
    }
  },
  "InternalServerException": {
    "base": "<p>An exception occurred with the service.</p>",
    "refs": {
    }
  },
  "ListIdentityProvidersRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListIdentityProvidersResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListInstancesRequest": {
```

"base": null,
"refs": {
}
},
"ListInstancesResponse": {
"base": null,
"refs": {
}
},
"ListProductSubscriptionsRequest": {
"base": null,
"refs": {
}
},
"ListProductSubscriptionsResponse": {
"base": null,
"refs": {
}
},
"ListUserAssociationsRequest": {
"base": null,
"refs": {
}
},
"ListUserAssociationsResponse": {
"base": null,
"refs": {
}
},
"ProductUserSummary": {
"base": " The summary of the user-based subscription products for a user. ",
"refs": {
"ProductUserSummaryList$member": null,
"StartProductSubscriptionResponse$ProductUserSummary": " Metadata that describes the start product subscription operation. ",
"StopProductSubscriptionResponse$ProductUserSummary": " Metadata that describes the start product subscription operation. "
}
},
"ProductUserSummaryList": {
"base": null,
"refs": {
"ListProductSubscriptionsResponse$ProductUserSummaries": " Metadata that describes the list product subscriptions operation. "
}
},
"RegisterIdentityProviderRequest": {
"base": null,

"refs": {
}
},
"RegisterIdentityProviderResponse": {
"base": null,
"refs": {
}
},
"ResourceNotFoundException":
{
"base": " The resource couldn't be found. ",
"refs": {
}
},
"SecurityGroup": {
"base": null,
"refs": {
"Settings$SecurityGroupId": " A security group ID that allows inbound TCP port 1688 communication between resources in your VPC and the VPC endpoint for activation servers. ",
"UpdateSettings$SecurityGroupId": " A security group ID that allows inbound TCP port 1688 communication between resources in your VPC and the VPC endpoints for activation servers. "
}
},
"ServiceQuotaExceededException": {
"base": " The request failed because a service quota is exceeded. ",
"refs": {
}
},
"Settings": {
"base": " The registered identity providers product related configuration settings such as the subnets to provision VPC endpoints, and the security group ID that is associated with the VPC endpoints. The security group should permit inbound TCP port 1688 communication
from resources in the VPC. ",
"refs": {
"IdentityProviderSummary$Settings": " An object that details the registered identity providers product related configuration settings such as the subnets to provision VPC endpoints. ",
"RegisterIdentityProviderRequest$Settings": " The registered identity providers product related configuration settings such as the subnets to provision VPC endpoints. "
}
},
"SettingsSubnetsList": {
"base": null,
"refs": {
"Settings$Subnets": " The subnets defined for the registered identity provider. "
}
},
"StartProductSubscriptionRequest": {
"base": null,

"refs": {
}
},
"StartProductSubscriptionResponse": {
"base": null,
"refs": {
}
},
"StopProductSubscriptionRequest": {
"base": null,
"refs": {
}
},
"StopProductSubscriptionResponse": {
"base": null,
"refs": {
}
},
"String":
{
"base": null,
"refs": {
"AccessDeniedException$message": null,
"ActiveDirectoryIdentityProvider$DirectoryId": " The directory ID for an Active Directory identity provider. ",
"AssociateUserRequest$Domain": " The domain name of the user. ",
"AssociateUserRequest$InstanceId": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"AssociateUserRequest$Username": " The user name from the identity provider for the user. ",
"ConflictException$message": null,
"DeregisterIdentityProviderRequest$Product": " The name of the user-based subscription product. ",
"DisassociateUserRequest$Domain": " The domain name of the user. ",
"DisassociateUserRequest$InstanceId": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"DisassociateUserRequest$Username": " The user name from the identity provider for the user. ",

"Filter$Attribute": " The name of an attribute to use as a filter. ",
"Filter$Operation": " The type of search (For example, eq, geq, leq) ",
"Filter$Value": " Value of the filter. ",
"IdentityProviderSummary$FailureMessage": " The failure message associated with an identity provider. ",
"IdentityProviderSummary$Product": " The name of the user-based subscription product. ",
"IdentityProviderSummary$Status": " The status of an identity provider. ",
"InstanceSummary$InstanceId": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"InstanceSummary$LastStatusCheckDate": " The date of the last status check. ",
"InstanceSummary$Status": " The status of an EC2 instance resource. ",
"InstanceSummary$StatusMessage": " The status message for an EC2 instance. ",

"InstanceUserSummary$AssociationDate": " The date a user was associated with an EC2 instance. ",
"InstanceUserSummary$DisassociationDate": " The date a user was disassociated from an EC2 instance. ",
"InstanceUserSummary$Domain": " The domain name of the user. ",
"InstanceUserSummary$InstanceId": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"InstanceUserSummary$Status": " The status of a user associated with an EC2 instance. ",
"InstanceUserSummary$StatusMessage": " The status message for users of an EC2 instance. ",
"InstanceUserSummary$Username": " The user name from the identity provider for the user. ",
"InternalServerException$message": null,
"ListIdentityProvidersRequest$NextToken": " Token for the next set of results. ",
"ListIdentityProvidersResponse$NextToken": " Token for the next set of results. ",
"ListInstancesRequest$NextToken": " Token for the next set of results. ",
"ListInstancesResponse$NextToken": " Token for the next set of results. ",
"ListProductSubscriptionsRequest$NextToken": " Token for the next set of results. ",
"ListProductSubscriptionsRequest$Product": " The name of the user-based subscription product. ",
"ListProductSubscriptionsResponse$NextToken": " Token for the next set of results. ",
"ListUserAssociationsRequest$InstanceId": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"ListUserAssociationsRequest$NextToken": " Token for the next set of results. ",
"ListUserAssociationsResponse$NextToken": " Token for the next set of results. ",
"ProductUserSummary$Domain": " The domain name of the user. ",
"ProductUserSummary$Product": " The name of the user-based subscription product. ",
"ProductUserSummary$Status": " The status of a product for a user. ",
"ProductUserSummary$StatusMessage": " The status message for a product for a user. ",
"ProductUserSummary$SubscriptionEndDate": " The end date of a subscription. ",
"ProductUserSummary$SubscriptionStartDate": " The start date of a subscription. ",
"ProductUserSummary$Username": " The user name from the identity provider of the user. ",
"RegisterIdentityProviderRequest$Product": " The name of the user-based subscription product. ",
"ResourceNotFoundException$message": null,
"ServiceQuotaExceededException$message": null,
"StartProductSubscriptionRequest$Domain": " The domain name of the user. ",
"StartProductSubscriptionRequest$Product": " The name of the user-based subscription product. ",
"StartProductSubscriptionRequest$Username": " The user name from the identity provider of the user. ",
"StopProductSubscriptionRequest$Domain": " The domain name of the user. ",
"StopProductSubscriptionRequest$Product": " The name of the user-based subscription product. ",
"StopProductSubscriptionRequest$Username": " The user name from the identity provider for the user. ",
"StringList$member": null,
"ThrottlingException$message": null,
"UpdateIdentityProviderSettingsRequest$Product": " The name of the user-based subscription product. ",
"ValidationException$message": null
}

```
  },
  "StringList": {
    "base": null,
    "refs": {
      "InstanceSummary$Products": "<p>A list of provided user-based subscription products.</p>"
    }
  },
  "Subnet": {
    "base": null,
    "refs": {
      "SettingsSubnetsList$member": null,
      "Subnets$member": null
    }
  },
  "Subnets": {
    "base": null,
    "refs": {
      "UpdateSettings$AddSubnets": "<p>The ID of one or more subnets in which License Manager will create a
VPC endpoint for products that require connectivity to activation servers.</p>",
      "UpdateSettings$RemoveSubnets":
 "<p>The ID of one or more subnets to remove.</p>"
    }
  },
  "ThrottlingException": {
    "base": "<p>The request was denied because of request throttling. Retry the request.</p>",
    "refs": {
    }
  },
  "UpdateIdentityProviderSettingsRequest": {
    "base": null,
    "refs": {
    }
  },
  "UpdateIdentityProviderSettingsResponse": {
    "base": null,
    "refs": {
    }
  },
  "UpdateSettings": {
    "base": "<p>Updates the registered identity providers product related configuration settings such as the subnets
to provision VPC endpoints.</p>",
    "refs": {
      "UpdateIdentityProviderSettingsRequest$UpdateSettings": "<p>Updates the registered identity providers
product related configuration settings. You can update any combination of settings in a single operation such as
the:</p> <ul> <li> <p>Subnets which you want to add to provision VPC endpoints.</p> </li> <li> <p>Subnets
which you want to remove the VPC endpoints
 from.</p> </li> <li> <p>Security group ID which permits traffic to the VPC endpoints.</p> </li> </ul>"
    }
```

```
  },
  "ValidationException": {
    "base": "<p>A parameter is not valid.</p>",
    "refs": {
    }
  }
 }
}
{
  "version": "1.0",
  "parameters": {
     "Region": {
        "builtIn": "AWS::Region",
        "required": false,
        "documentation": "The AWS region used to dispatch the request.",
        "type": "String"
     },
     "UseDualStack": {
        "builtIn": "AWS::UseDualStack",
        "required": true,
        "default": false,
        "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
        "type": "Boolean"
     },
     "UseFIPS": {
        "builtIn": "AWS::UseFIPS",
        "required": true,
        "default": false,
        "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
        "type": "Boolean"
     },
     "Endpoint": {

    "builtIn": "SDK::Endpoint",
        "required": false,
        "documentation": "Override the endpoint used to send this request",
        "type": "String"
     }
  },
  "rules": [
     {
        "conditions": [
           {
              "fn": "aws.partition",
              "argv": [
                 {
```

```
            "ref": "Region"
          }
        ],
        "assign": "PartitionResult"
      }
    ],
    "type": "tree",
    "rules": [
      {
        "conditions": [
          {
            "fn": "isSet",
            "argv": [
              {
                "ref": "Endpoint"
              }
            ]
          },
          {
            "fn": "parseURL",

           "argv": [
              {
                "ref": "Endpoint"
              }
            ],
            "assign": "url"
          }
        ],
        "type": "tree",
        "rules": [
          {
            "conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  {
                    "ref": "UseFIPS"
                  },
                  true
                ]
              }
            ],
            "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
            "type": "error"
           },
          {
            "conditions": [],
```

```
                "type": "tree",
                "rules": [
                  {
                    "conditions": [
                      {
                        "fn": "booleanEquals",
                        "argv": [
                          {
                            "ref": "UseDualStack"
                          },
                          true
                        ]
                      }
                    ],
                    "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                    "type": "error"
                  },

              {
                    "conditions": [],
                    "endpoint": {
                      "url": {
                        "ref": "Endpoint"
                      },
                      "properties": {},
                      "headers": {}
                    },
                    "type": "endpoint"
                  }
                ]
              }
            ]
          },
          {
            "conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  {
                    "ref": "UseFIPS"
                  },
                  true
                ]

        },
              {
                "fn": "booleanEquals",
                "argv": [
```

```
            {
                "ref": "UseDualStack"
            },
            true
        ]
    }
],
"type": "tree",
"rules": [
    {
        "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [
                    true,
                    {
                        "fn": "getAttr",
                        "argv": [
                            {
                                "ref": "PartitionResult"

},
                            "supportsFIPS"
                        ]
                    }
                ]
            },
            {
                "fn": "booleanEquals",
                "argv": [
                    true,
                    {
                        "fn": "getAttr",
                        "argv": [
                            {
                                "ref": "PartitionResult"
                            },
                            "supportsDualStack"
                        ]
                    }
                ]
            }

    ],
        "type": "tree",
        "rules": [
            {
                "conditions": [],
```

```
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                    "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
            }
        ]
    },
    {
        "conditions": [],
        "error": "FIPS and DualStack are enabled, but this partition does not support one or both",
        "type": "error"
    }
]
},

{
    "conditions": [
        {
            "fn": "booleanEquals",
            "argv": [
                {
                    "ref": "UseFIPS"
                },
                true
            ]
        }
    ],
    "type": "tree",
    "rules": [
        {
            "conditions": [
                {
                    "fn": "booleanEquals",
                    "argv": [
                        true,
                        {
                            "fn": "getAttr",
                            "argv": [
                                {
                                    "ref": "PartitionResult"
                                },
                                "supportsFIPS"
                            ]
                        }
                    ]
```

```
                }
            ],
            "type": "tree",
            "rules": [
                {
                    "conditions": [],
                    "endpoint": {
                        "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                        "properties": {},
                        "headers": {}
                    },
                    "type": "endpoint"
                }
            ]
        },
        {

    "conditions": [],
            "error": "FIPS is enabled but this partition does not support FIPS",
            "type": "error"
        }
    ]
    },
    {
        "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [
                    {
                        "ref": "UseDualStack"
                    },
                    true
                ]
            }
        ],
        "type": "tree",
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            true,

    {
                            "fn": "getAttr",
                            "argv": [
```

```
                    {
                        "ref": "PartitionResult"
                    },
                    "supportsDualStack"
                ]
            }
        ]
    }
],
"type": "tree",
"rules": [
    {
        "conditions": [],
        "endpoint": {
            "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
            "properties": {},

"headers": {}
        },
        "type": "endpoint"
    }
]
},
{
"conditions": [],
"error": "DualStack is enabled but this partition does not support DualStack",
"type": "error"
}
]
},
{
"conditions": [],
"endpoint": {
"url": "https://license-manager-user-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
}
]
}
{
 "version": "2.0",
 "service": "<p>With License Manager, you can discover and track your commercial Linux subscriptions on running
Amazon EC2 instances.</p>",
```

"operations": {
"DeregisterSubscriptionProvider": " Remove a third-party subscription provider from the Bring Your Own License (BYOL) subscriptions registered to your account. ",
"GetRegisteredSubscriptionProvider": " Get details for a Bring Your Own License (BYOL) subscription that's registered to your account. ",
"GetServiceSettings": " Lists the Linux subscriptions service settings for your account. ",
"ListLinuxSubscriptionInstances": " Lists the running Amazon EC2 instances that were discovered with commercial Linux subscriptions. ",
"ListLinuxSubscriptions": " Lists the Linux subscriptions that have been discovered. If you have linked your organization, the returned results will include data aggregated across your accounts in Organizations. ",
"ListRegisteredSubscriptionProviders":
" List Bring Your Own License (BYOL) subscription registration resources for your account. ",
"ListTagsForResource": " List the metadata tags that are assigned to the specified Amazon Web Services resource. ",
"RegisterSubscriptionProvider": " Register the supported third-party subscription provider for your Bring Your Own License (BYOL) subscription. ",
"TagResource": " Add metadata tags to the specified Amazon Web Services resource. ",
"UntagResource": " Remove one or more metadata tag from the specified Amazon Web Services resource. ",
"UpdateServiceSettings": " Updates the service settings for Linux subscriptions. "
},
"shapes": {
"Boolean": {
"base": null,
"refs": {
"UpdateServiceSettingsRequest$AllowUpdate": " Describes if updates are allowed to the service settings for Linux subscriptions. If you allow updates, you can aggregate Linux subscription data in more than one home Region. "
}
},
"BoxInteger": {
"base": null,
"refs": {
"ListLinuxSubscriptionInstancesRequest$MaxResults": " The maximum items to return in a request. ",
"ListLinuxSubscriptionsRequest$MaxResults": " The maximum items to return in a request. "
}
},
"BoxLong": {
"base": null,
"refs": {
"Subscription$InstanceCount": " The total amount of running instances using this subscription. "
}
},
"DeregisterSubscriptionProviderRequest": {
"base": null,
"refs": {
}
},

"DeregisterSubscriptionProviderResponse": {
"base": null,
"refs": {
}
},
"Filter": {
"base": " A filter object that is used to return more specific results from a describe operation. Filters can be used to match a set of resources by specific criteria. ",
"refs": {
"FilterList$member": null
}
},
"FilterList": {
"base": null,
"refs": {

"ListLinuxSubscriptionInstancesRequest$Filters": " An array of structures that you can use to filter the results by your specified criteria. For example, you can specify <code>Region</code> in the <code>Name</code>, with the <code>contains</code> operator to list all subscriptions that match a partial string in the <code>Value</code>, such as <code>us-west</code>. For each filter, you can specify one of the following values for the <code>Name</code> key to streamline results: <ul> <code>AccountID</code>   <code>AmiID</code>   <code>DualSubscription</code>   <code>InstanceID</code>   <code>InstanceType</code>   <code>ProductCode</code>   <code>Region</code>   <code>Status</code>   <code>UsageOperation</code>   For each filter, you can use one of the following <code>Operator</code> values to define the behavior
of the filter: <ul> <code>contains</code>   <code>equals</code>   <code>Notequal</code> ",
"ListLinuxSubscriptionsRequest$Filters": " An array of structures that you can use to filter the results to those that match one or more sets of key-value pairs that you specify. For example, you can filter by the name of <code>Subscription</code> with an optional operator to see subscriptions that match, partially match, or don't match a certain subscription's name. The valid names for this filter are: <ul> <code>Subscription</code>   The valid Operators for this filter are: <ul> <code>contains</code>   <code>equals</code>   <code>Notequal</code> "
}
},
"GetRegisteredSubscriptionProviderRequest": {
"base": null,
"refs": {
}
},
"GetRegisteredSubscriptionProviderResponse": {
"base": null,
"refs": {
}
},
"GetServiceSettingsRequest": {

"base": null,
"refs": {
}
},
"GetServiceSettingsResponse": {
"base": null,
"refs": {
}
},
"Instance": {
"base": " Details discovered information about a running instance using Linux subscriptions. ",
"refs": {
"InstanceList$member": null
}
},
"InstanceList": {
"base": null,
"refs": {
"ListLinuxSubscriptionInstancesResponse$Instances": " An array that contains instance objects. "
}
},
"InternalServerException": {
"base": " An exception occurred with the service. ",
"refs": {
}
},
"LinuxSubscriptionsDiscovery": {
"base": null,
"refs": {
"GetServiceSettingsResponse$LinuxSubscriptionsDiscovery": " Lists if discovery has been enabled for Linux subscriptions. ",
"UpdateServiceSettingsRequest$LinuxSubscriptionsDiscovery": " Describes if the discovery of Linux subscriptions is enabled. ",
"UpdateServiceSettingsResponse$LinuxSubscriptionsDiscovery": " Lists if discovery has been enabled for Linux subscriptions. "
}
},
"LinuxSubscriptionsDiscoverySettings": {
"base": " Lists the settings defined for discovering Linux subscriptions. ",
"refs": {
"GetServiceSettingsResponse$LinuxSubscriptionsDiscoverySettings": " Lists the settings defined for Linux subscriptions discovery. The settings include if Organizations integration has been enabled, and which Regions data will be aggregated from. ",
"UpdateServiceSettingsRequest$LinuxSubscriptionsDiscoverySettings": " The settings defined for Linux subscriptions discovery. The settings include if Organizations integration has been enabled, and which Regions data will be aggregated from. ",
"UpdateServiceSettingsResponse$LinuxSubscriptionsDiscoverySettings": " The settings defined

for Linux subscriptions discovery. The settings include if Organizations integration has been enabled, and which Regions data will be aggregated from. "
    }
  },
  "ListLinuxSubscriptionInstancesRequest": {
    "base": " NextToken length limit is half of ddb accepted limit. Increase this limit if parameters in request increases. ",
    "refs": {
    }
  },
  "ListLinuxSubscriptionInstancesRequestNextTokenString": {
    "base": null,
    "refs": {
      "ListLinuxSubscriptionInstancesRequest$NextToken": " A token to specify where to start paginating. This is the nextToken from a previously truncated response. "
    }
  },
  "ListLinuxSubscriptionInstancesResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListLinuxSubscriptionsRequest": {
    "base": " NextToken length limit is half of ddb accepted limit. Increase this limit if parameters in request increases. ",
    "refs": {
    }
  },
  "ListLinuxSubscriptionsRequestNextTokenString":
 {
    "base": null,
    "refs": {
      "ListLinuxSubscriptionsRequest$NextToken": " A token to specify where to start paginating. This is the nextToken from a previously truncated response. "
    }
  },
  "ListLinuxSubscriptionsResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListRegisteredSubscriptionProvidersRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListRegisteredSubscriptionProvidersRequestMaxResultsInteger": {
    "base": null,

"refs": {
"ListRegisteredSubscriptionProvidersRequest$MaxResults": " The maximum items to return in a request. "
}
},
"ListRegisteredSubscriptionProvidersResponse": {
"base": null,
"refs": {
}
},
"ListTagsForResourceRequest": {
"base": null,
"refs": {
}
},
"ListTagsForResourceResponse": {
"base": null,
"refs": {
}
},
"Operator": {
"base": null,
"refs":
{
"Filter$Operator": " An operator for filtering results. "
}
},
"OrganizationIntegration": {
"base": null,
"refs": {
"LinuxSubscriptionsDiscoverySettings$OrganizationIntegration": " Details if you have enabled resource discovery across your accounts in Organizations. "
}
},
"ProductCodeList": {
"base": null,
"refs": {
"Instance$ProductCode": " The product code for the instance. For more information, see Usage operation values in the License Manager User Guide . "
}
},
"RegisterSubscriptionProviderRequest": {
"base": null,
"refs": {
}
},
"RegisterSubscriptionProviderResponse": {

"base": null,
"refs": {
}
},
"RegisteredSubscriptionProvider": {
"base": " A third-party provider for operating system
(OS) platform software and license subscriptions, such as Red Hat. When you register a third-party Linux subscription provider, License Manager can get subscription data from the registered provider. ",
"refs": {
"RegisteredSubscriptionProviderList$member": null
}
},
"RegisteredSubscriptionProviderList": {
"base": null,
"refs": {
"ListRegisteredSubscriptionProvidersResponse$RegisteredSubscriptionProviders": " The list of BYOL registration resources that fit the criteria you specified in the request. "
}
},
"ResourceNotFoundException": {
"base": " Unable to find the requested Amazon Web Services resource. ",
"refs": {
}
},
"SecretArn": {
"base": null,
"refs": {
"GetRegisteredSubscriptionProviderResponse$SecretArn": " The Amazon Resource Name (ARN) of the third-party access secret stored in Secrets Manager for the BYOL registration resource specified in the request. ",
"RegisterSubscriptionProviderRequest$SecretArn": " The Amazon Resource Name (ARN) of the secret where you've stored your subscription provider's access token. For RHEL subscriptions managed through the Red Hat Subscription Manager (RHSM), the secret contains your Red Hat Offline token. ",
"RegisteredSubscriptionProvider$SecretArn": " The Amazon Resource Name (ARN) of the Secrets Manager secret that stores your registered Linux subscription provider access token. For RHEL account subscriptions, this is the offline token. "
}
},
"Status": {
"base": null,
"refs": {
"GetServiceSettingsResponse$Status": " Indicates the status of Linux subscriptions settings being applied. ",
"UpdateServiceSettingsResponse$Status": " Indicates the status of Linux subscriptions settings being applied. "
}
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"GetRegisteredSubscriptionProviderResponse$LastSuccessfulDataRetrievalTime": " The timestamp from the last time License Manager retrieved subscription details from your registered third-party Linux subscription provider. ",
"GetRegisteredSubscriptionProviderResponse$SubscriptionProviderStatusMessage": " The detailed message from your subscription provider token status. ",
"Instance$AccountID": " The account ID which owns the instance. ",
"Instance$AmiId": " The AMI ID used to launch the instance. ",
"Instance$DualSubscription": " Indicates that you have two different license subscriptions for the same software on your instance. ",
"Instance$InstanceID": " The instance ID of the resource. ",
"Instance$InstanceType": " The instance type of the resource. ",
"Instance$LastUpdatedTime": " The time in which the last discovery updated the instance details. ",
"Instance$OsVersion":
" The operating system software version that runs on your instance. ",
"Instance$Region": " The Region the instance is running in. ",
"Instance$RegisteredWithSubscriptionProvider": " Indicates that your instance uses a BYOL license subscription from a third-party Linux subscription provider that you've registered with License Manager. ",
"Instance$Status": " The status of the instance. ",
"Instance$SubscriptionName": " The name of the license subscription that the instance uses. ",
"Instance$SubscriptionProviderCreateTime": " The timestamp when you registered the third-party Linux subscription provider for the subscription that the instance uses. ",
"Instance$SubscriptionProviderUpdateTime": " The timestamp from the last time that the instance synced with the registered third-party Linux subscription provider. ",
"Instance$UsageOperation": " The usage operation of the instance. For more information,
see For more information, see Usage operation values in the License Manager User Guide. ",
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"ListLinuxSubscriptionsResponse$NextToken": " The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects. ",
"ListRegisteredSubscriptionProvidersRequest$NextToken": " A token to specify where to start paginating. This is the nextToken from a
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"RegisteredSubscriptionProvider$LastSuccessfulDataRetrievalTime": " The timestamp from the last time that License Manager accessed third-party subscription data for your account from your registered Linux

subscription provider. ",
"RegisteredSubscriptionProvider$SubscriptionProviderStatusMessage": " A detailed message that's associated with your BYOL subscription provider token status. ",
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"Subscription$Name": " The name of the subscription. ",
"Subscription$Type": " The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS. ",
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"LinuxSubscriptionsDiscoverySettings$SourceRegions":
" The Regions in which to discover data for Linux subscriptions. ",
"UpdateServiceSettingsResponse$HomeRegions": " The Region in which License Manager displays the aggregated data for Linux subscriptions. "
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"GetRegisteredSubscriptionProviderRequest$SubscriptionProviderArn": " The Amazon Resource Name (ARN) of the BYOL registration resource to get details for. ",
"GetRegisteredSubscriptionProviderResponse$SubscriptionProviderArn": " The Amazon Resource Name (ARN) for the BYOL registration resource specified in the request. ",
"ListTagsForResourceRequest$resourceArn": " The Amazon Resource Name (ARN) of the resource for which to list metadata tags. ",
"RegisteredSubscriptionProvider$SubscriptionProviderArn": " The Amazon Resource Name (ARN) of the Linux subscription provider resource that you registered. ",
"TagResourceRequest$resourceArn": " The Amazon Resource Name (ARN) of the Amazon Web Services resource to which to add the specified metadata tags. ",
"UntagResourceRequest$resourceArn": " The Amazon Resource Name (ARN) of the Amazon Web Services resource to remove the metadata tags from. "
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"RegisterSubscriptionProviderRequest$SubscriptionProviderSource": " The supported Linux subscription provider to register. ",
"RegisterSubscriptionProviderResponse$SubscriptionProviderSource": " The Linux subscription provider that you registered. ",
"RegisteredSubscriptionProvider$SubscriptionProviderSource": " A supported third-party Linux subscription provider. License
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"RegisterSubscriptionProviderResponse$SubscriptionProviderStatus": " Indicates the status of the registration action for the Linux subscription provider that you requested. ",
"RegisteredSubscriptionProvider$SubscriptionProviderStatus": " Indicates the status of your registered Linux subscription provider access
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AWS SDK for Go

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  },
  "input":{"shape":"GetLicenseRequest"},
  "output":{"shape":"GetLicenseResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"AuthorizationException"},
     {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ]
},
"GetLicenseConfiguration":{
  "name":"GetLicenseConfiguration",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"GetLicenseConfigurationRequest"},
  "output":{"shape":"GetLicenseConfigurationResponse"},
  "errors":[
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    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"GetLicenseConversionTask":{
  "name":"GetLicenseConversionTask",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"GetLicenseConversionTaskRequest"},
  "output":{"shape":"GetLicenseConversionTaskResponse"},
  "errors":[
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     {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"GetLicenseManagerReportGenerator":{
  "name":"GetLicenseManagerReportGenerator",
  "http":{
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    "requestUri":"/"
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  "input":{"shape":"GetLicenseManagerReportGeneratorRequest"},
  "output":{"shape":"GetLicenseManagerReportGeneratorResponse"},
  "errors":[
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    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"AccessDeniedException"},
    {"shape":"ResourceNotFoundException"}
  ]
},
"GetLicenseUsage":{
  "name":"GetLicenseUsage",
  "http":{
     "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"GetLicenseUsageRequest"},
  "output":{"shape":"GetLicenseUsageResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ]
},
"GetServiceSettings":{
  "name":"GetServiceSettings",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"GetServiceSettingsRequest"},
  "output":{"shape":"GetServiceSettingsResponse"},
  "errors":[
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
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"ListAssociationsForLicenseConfiguration":{
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"http":{
"method":"POST",
"requestUri":"/"
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"input":{"shape":"ListAssociationsForLicenseConfigurationRequest"},
"output":{"shape":"ListAssociationsForLicenseConfigurationResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"FilterLimitExceededException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
]
},
"ListDistributedGrants":{
"name":"ListDistributedGrants",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListDistributedGrantsRequest"},
"output":{"shape":"ListDistributedGrantsResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"ResourceLimitExceededException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
]
},
"ListFailuresForLicenseConfigurationOperations":{
"name":"ListFailuresForLicenseConfigurationOperations",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListFailuresForLicenseConfigurationOperationsRequest"},
"output":{"shape":"ListFailuresForLicenseConfigurationOperationsResponse"},
"errors":[
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{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},

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    {"shape":"RateLimitExceededException"}
  ]
},
"ListLicenseConfigurations":{
  "name":"ListLicenseConfigurations",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseConfigurationsRequest"},
   "output":{"shape":"ListLicenseConfigurationsResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"FilterLimitExceededException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListLicenseConversionTasks":{
  "name":"ListLicenseConversionTasks",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseConversionTasksRequest"},
  "output":{"shape":"ListLicenseConversionTasksResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListLicenseManagerReportGenerators":{
  "name":"ListLicenseManagerReportGenerators",
   "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseManagerReportGeneratorsRequest"},
  "output":{"shape":"ListLicenseManagerReportGeneratorsResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
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    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"AccessDeniedException"},
    {"shape":"ResourceNotFoundException"}
  ]
},
"ListLicenseSpecificationsForResource":{
  "name":"ListLicenseSpecificationsForResource",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseSpecificationsForResourceRequest"},
  "output":{"shape":"ListLicenseSpecificationsForResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
     {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListLicenseVersions":{
  "name":"ListLicenseVersions",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseVersionsRequest"},
  "output":{"shape":"ListLicenseVersionsResponse"},
  "errors":[
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    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ]
},
"ListLicenses":{
  "name":"ListLicenses",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicensesRequest"},
  "output":{"shape":"ListLicensesResponse"},
  "errors":[
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    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ]
},
"ListReceivedGrants":{
  "name":"ListReceivedGrants",
  "http":{
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    "requestUri":"/"
  },
  "input":{"shape":"ListReceivedGrantsRequest"},
  "output":{"shape":"ListReceivedGrantsResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListReceivedGrantsForOrganization":{
  "name":"ListReceivedGrantsForOrganization",
  "http":{
    "method":"POST",
    "requestUri":"/"
   },
  "input":{"shape":"ListReceivedGrantsForOrganizationRequest"},
  "output":{"shape":"ListReceivedGrantsForOrganizationResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
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    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListReceivedLicenses":{
  "name":"ListReceivedLicenses",
  "http":{
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    "requestUri":"/"
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  "input":{"shape":"ListReceivedLicensesRequest"},
  "output":{"shape":"ListReceivedLicensesResponse"},
  "errors":[
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    {"shape":"InvalidParameterValueException"},
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    {"shape":"AuthorizationException"},
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    {"shape":"RateLimitExceededException"}
  ]
},
"ListReceivedLicensesForOrganization":{
  "name":"ListReceivedLicensesForOrganization",
  "http":{
    "method":"POST",
    "requestUri":"/"
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  "input":{"shape":"ListReceivedLicensesForOrganizationRequest"},
  "output":{"shape":"ListReceivedLicensesForOrganizationResponse"},
  "errors":[
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    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListResourceInventory":{
  "name":"ListResourceInventory",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListResourceInventoryRequest"},
  "output":{"shape":"ListResourceInventoryResponse"},
   "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"FilterLimitExceededException"},
    {"shape":"FailedDependencyException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
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{"shape":"RateLimitExceededException"}
]
},
"ListTagsForResource":{
"name":"ListTagsForResource",
"http":{
"method":"POST",
"requestUri":"/"
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"input":{"shape":"ListTagsForResourceRequest"},
"output":{"shape":"ListTagsForResourceResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
]
},
"ListTokens":{
"name":"ListTokens",
"http":{
"method":"POST",

"requestUri":"/"
},
"input":{"shape":"ListTokensRequest"},
"output":{"shape":"ListTokensResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"},
{"shape":"ServerInternalException"}
]
},
"ListUsageForLicenseConfiguration":{
"name":"ListUsageForLicenseConfiguration",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListUsageForLicenseConfigurationRequest"},
"output":{"shape":"ListUsageForLicenseConfigurationResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"FilterLimitExceededException"},
{"shape":"ServerInternalException"},

{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
]
},
"RejectGrant":{
"name":"RejectGrant",
"http":{
"method":"POST",
"requestUri":"/"
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"input":{"shape":"RejectGrantRequest"},
"output":{"shape":"RejectGrantResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"},
{"shape":"ResourceLimitExceededException"},
{"shape":"ServerInternalException"}
]
},
"TagResource":{
"name":"TagResource",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"TagResourceRequest"},
"output":{"shape":"TagResourceResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
]
},
"UntagResource":{
"name":"UntagResource",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"UntagResourceRequest"},
"output":{"shape":"UntagResourceResponse"},
"errors":[

{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
]
},
"UpdateLicenseConfiguration":{
"name":"UpdateLicenseConfiguration",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"UpdateLicenseConfigurationRequest"},
"output":{"shape":"UpdateLicenseConfigurationResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"},
{"shape":"ResourceLimitExceededException"}
]
},
"UpdateLicenseManagerReportGenerator":{
"name":"UpdateLicenseManagerReportGenerator",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"UpdateLicenseManagerReportGeneratorRequest"},
"output":{"shape":"UpdateLicenseManagerReportGeneratorResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"RateLimitExceededException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"ResourceNotFoundException"},
{"shape":"ResourceLimitExceededException"}
]
},
"UpdateLicenseSpecificationsForResource":{
"name":"UpdateLicenseSpecificationsForResource",
"http":{
"method":"POST",
"requestUri":"/"

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  },
    "input":{"shape":"UpdateLicenseSpecificationsForResourceRequest"},
    "output":{"shape":"UpdateLicenseSpecificationsForResourceResponse"},
    "errors":[
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      {"shape":"LicenseUsageException"},
      {"shape":"ServerInternalException"},
      {"shape":"AuthorizationException"},
      {"shape":"AccessDeniedException"},
      {"shape":"RateLimitExceededException"}
    ]
  },
  "UpdateServiceSettings":{
    "name":"UpdateServiceSettings",
    "http":{
      "method":"POST",
      "requestUri":"/"
    },
    "input":{"shape":"UpdateServiceSettingsRequest"},
    "output":{"shape":"UpdateServiceSettingsResponse"},
    "errors":[
      {"shape":"InvalidParameterValueException"},
      {"shape":"ServerInternalException"},
      {"shape":"AuthorizationException"},
      {"shape":"AccessDeniedException"},
      {"shape":"RateLimitExceededException"}
     ]
  }
},
"shapes":{
  "AcceptGrantRequest":{
    "type":"structure",
    "required":["GrantArn"],
    "members":{
      "GrantArn":{"shape":"Arn"}
    }
  },
  "AcceptGrantResponse":{
    "type":"structure",
    "members":{
      "GrantArn":{"shape":"Arn"},
      "Status":{"shape":"GrantStatus"},
      "Version":{"shape":"String"}
    }
  },
  "AccessDeniedException":{
```

"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"exception":true
},
"ActivationOverrideBehavior":{
"type":"string",
"enum":[
"DISTRIBUTED_GRANTS_ONLY",
"ALL_GRANTS_PERMITTED_BY_ISSUER"
]
},
"AllowedOperation":{
"type":"string",
"enum":[
"CreateGrant",
"CheckoutLicense",
"CheckoutBorrowLicense",
"CheckInLicense",
"ExtendConsumptionLicense",
"ListPurchasedLicenses",
"CreateToken"
]
},
"AllowedOperationList":{
"type":"list",
"member":{"shape":"AllowedOperation"},
"max":7,
"min":1
},
"Arn":{
"type":"string",
"max":2048,
"pattern":"^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
},
"ArnList":{
"type":"list",
"member":{"shape":"Arn"}
},
"AuthorizationException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"exception":true
},

"AutomatedDiscoveryInformation":{
  "type":"structure",
  "members":{
    "LastRunTime":{"shape":"DateTime"}
  }
},
"Boolean":{"type":"boolean"},
"BorrowConfiguration":{
  "type":"structure",
  "required":[
    "AllowEarlyCheckIn",
    "MaxTimeToLiveInMinutes"
  ],
  "members":{
    "AllowEarlyCheckIn":{"shape":"BoxBoolean"},
    "MaxTimeToLiveInMinutes":{"shape":"BoxInteger"}
   }
},
"BoxBoolean":{"type":"boolean"},
"BoxInteger":{"type":"integer"},
"BoxLong":{"type":"long"},
"CheckInLicenseRequest":{
  "type":"structure",
  "required":["LicenseConsumptionToken"],
  "members":{
    "LicenseConsumptionToken":{"shape":"String"},
    "Beneficiary":{"shape":"String"}
  }
},
"CheckInLicenseResponse":{
  "type":"structure",
  "members":{
  }
},
"CheckoutBorrowLicenseRequest":{
  "type":"structure",
  "required":[
    "LicenseArn",
    "Entitlements",
    "DigitalSignatureMethod",
    "ClientToken"
  ],
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "Entitlements":{"shape":"EntitlementDataList"},
    "DigitalSignatureMethod":{"shape":"DigitalSignatureMethod"},
    "NodeId":{"shape":"String"},
    "CheckoutMetadata":{"shape":"MetadataList"},

```
    "ClientToken":{"shape":"ClientToken"}
  }
},

"CheckoutBorrowLicenseResponse":{
  "type":"structure",
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "LicenseConsumptionToken":{"shape":"String"},
    "EntitlementsAllowed":{"shape":"EntitlementDataList"},
    "NodeId":{"shape":"String"},
    "SignedToken":{"shape":"SignedToken"},
    "IssuedAt":{"shape":"ISO8601DateTime"},
    "Expiration":{"shape":"ISO8601DateTime"},
    "CheckoutMetadata":{"shape":"MetadataList"}
  }
},
"CheckoutLicenseRequest":{
  "type":"structure",
  "required":[
    "ProductSKU",
    "CheckoutType",
    "KeyFingerprint",
    "Entitlements",
    "ClientToken"
  ],
  "members":{
    "ProductSKU":{"shape":"String"},
    "CheckoutType":{"shape":"CheckoutType"},
    "KeyFingerprint":{"shape":"String"},
    "Entitlements":{"shape":"EntitlementDataList"},
    "ClientToken":{"shape":"ClientToken"},
    "Beneficiary":{"shape":"String"},
    "NodeId":{"shape":"String"}
   }
},
"CheckoutLicenseResponse":{
  "type":"structure",
  "members":{
    "CheckoutType":{"shape":"CheckoutType"},
    "LicenseConsumptionToken":{"shape":"String"},
    "EntitlementsAllowed":{"shape":"EntitlementDataList"},
    "SignedToken":{"shape":"SignedToken"},
    "NodeId":{"shape":"String"},
    "IssuedAt":{"shape":"ISO8601DateTime"},
    "Expiration":{"shape":"ISO8601DateTime"},
    "LicenseArn":{"shape":"String"}
  }
```

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},
"CheckoutType":{
  "type":"string",
  "enum":[
    "PROVISIONAL",
    "PERPETUAL"
  ]
},
"ClientRequestToken":{
  "type":"string",
  "max":36,
  "min":1
},
"ClientToken":{
  "type":"string",
  "max":2048,
  "pattern":"\\S+"
},
"ConflictException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"ConsumedLicenseSummary":{
  "type":"structure",
   "members":{
    "ResourceType":{"shape":"ResourceType"},
    "ConsumedLicenses":{"shape":"BoxLong"}
  }
},
"ConsumedLicenseSummaryList":{
  "type":"list",
  "member":{"shape":"ConsumedLicenseSummary"}
},
"ConsumptionConfiguration":{
  "type":"structure",
  "members":{
    "RenewType":{"shape":"RenewType"},
    "ProvisionalConfiguration":{"shape":"ProvisionalConfiguration"},
    "BorrowConfiguration":{"shape":"BorrowConfiguration"}
  }
},
"CreateGrantRequest":{
  "type":"structure",
  "required":[
    "ClientToken",
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"GrantName",
"LicenseArn",
"Principals",
"HomeRegion",
"AllowedOperations"
],
"members":{
"ClientToken":{"shape":"ClientToken"},
"GrantName":{"shape":"String"},
"LicenseArn":{"shape":"Arn"},
"Principals":{"shape":"PrincipalArnList"},
"HomeRegion":{"shape":"String"},
"AllowedOperations":{"shape":"AllowedOperationList"}
}
},
"CreateGrantResponse":{
"type":"structure",
"members":{
"GrantArn":{"shape":"Arn"},
"Status":{"shape":"GrantStatus"},
"Version":{"shape":"String"}
}
},
"CreateGrantVersionRequest":{
"type":"structure",
"required":[
"ClientToken",
"GrantArn"
],
"members":{
"ClientToken":{"shape":"ClientToken"},
"GrantArn":{"shape":"Arn"},
"GrantName":{"shape":"String"},
"AllowedOperations":{"shape":"AllowedOperationList"},
"Status":{"shape":"GrantStatus"},
"StatusReason":{"shape":"StatusReasonMessage"},
"SourceVersion":{"shape":"String"},
"Options":{"shape":"Options"}
}
},
"CreateGrantVersionResponse":{
"type":"structure",
"members":{
"GrantArn":{"shape":"Arn"},
"Status":{"shape":"GrantStatus"},
"Version":{"shape":"String"}
}
},

"CreateLicenseConfigurationRequest":{
"type":"structure",
"required":[
"Name",
"LicenseCountingType"
],
"members":{
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"Description":{"shape":"String"},
"LicenseCountingType":{"shape":"LicenseCountingType"},
"LicenseCount":{"shape":"BoxLong"},
"LicenseCountHardLimit":{"shape":"BoxBoolean"},
"LicenseRules":{"shape":"StringList"},
"Tags":{"shape":"TagList"},
"DisassociateWhenNotFound":{"shape":"BoxBoolean"},
"ProductInformationList":{"shape":"ProductInformationList"}
}
},
"CreateLicenseConfigurationResponse":{
"type":"structure",
"members":{
"LicenseConfigurationArn":{"shape":"String"}
}
},
"CreateLicenseConversionTaskForResourceRequest":{
"type":"structure",
"required":[
"ResourceArn",
"SourceLicenseContext",
"DestinationLicenseContext"
],
"members":{
"ResourceArn":{"shape":"Arn"},
"SourceLicenseContext":{"shape":"LicenseConversionContext"},
"DestinationLicenseContext":{"shape":"LicenseConversionContext"}
}
},
"CreateLicenseConversionTaskForResourceResponse":{
"type":"structure",
"members":{
"LicenseConversionTaskId":{"shape":"LicenseConversionTaskId"}
}
},
"CreateLicenseManagerReportGeneratorRequest":{
"type":"structure",
"required":[
"ReportGeneratorName",
"Type",

"ReportContext",
"ReportFrequency",
"ClientToken"
],
"members":{
"ReportGeneratorName":{"shape":"ReportGeneratorName"},
"Type":{"shape":"ReportTypeList"},
"ReportContext":{"shape":"ReportContext"},
"ReportFrequency":{"shape":"ReportFrequency"},
"ClientToken":{"shape":"ClientRequestToken"},
"Description":{"shape":"String"},
"Tags":{"shape":"TagList"}
}
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"CreateLicenseManagerReportGeneratorResponse":{
"type":"structure",
"members":{
"LicenseManagerReportGeneratorArn":{"shape":"String"}
}
},
"CreateLicenseRequest":{
"type":"structure",
"required":[
"LicenseName",
"ProductName",
"ProductSKU",
"Issuer",
"HomeRegion",
"Validity",
"Entitlements",
"Beneficiary",
"ConsumptionConfiguration",
"ClientToken"
],
"members":{
"LicenseName":{"shape":"String"},
"ProductName":{"shape":"String"},
"ProductSKU":{"shape":"String"},
"Issuer":{"shape":"Issuer"},
"HomeRegion":{"shape":"String"},
"Validity":{"shape":"DatetimeRange"},
"Entitlements":{"shape":"EntitlementList"},
"Beneficiary":{"shape":"String"},
"ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},
"LicenseMetadata":{"shape":"MetadataList"},
"ClientToken":{"shape":"ClientToken"}

```
}
 },
 "CreateLicenseResponse":{
  "type":"structure",
  "members":{
   "LicenseArn":{"shape":"Arn"},
   "Status":{"shape":"LicenseStatus"},
   "Version":{"shape":"String"}
  }
 },
 "CreateLicenseVersionRequest":{
  "type":"structure",
  "required":[
   "LicenseArn",
   "LicenseName",
   "ProductName",
   "Issuer",
   "HomeRegion",
   "Validity",
   "Entitlements",
   "ConsumptionConfiguration",
   "Status",
   "ClientToken"
  ],
  "members":{
   "LicenseArn":{"shape":"Arn"},
   "LicenseName":{"shape":"String"},
   "ProductName":{"shape":"String"},
   "Issuer":{"shape":"Issuer"},
   "HomeRegion":{"shape":"String"},
   "Validity":{"shape":"DatetimeRange"},
   "LicenseMetadata":{"shape":"MetadataList"},
   "Entitlements":{"shape":"EntitlementList"},
   "ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},
   "Status":{"shape":"LicenseStatus"},
    "ClientToken":{"shape":"ClientToken"},
   "SourceVersion":{"shape":"String"}
  }
 },
 "CreateLicenseVersionResponse":{
  "type":"structure",
  "members":{
   "LicenseArn":{"shape":"Arn"},
   "Version":{"shape":"String"},
   "Status":{"shape":"LicenseStatus"}
  }
 },
 "CreateTokenRequest":{
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"type":"structure",
"required":[
"LicenseArn",
"ClientToken"
],
"members":{
"LicenseArn":{"shape":"Arn"},
"RoleArns":{"shape":"ArnList"},
"ExpirationInDays":{"shape":"Integer"},
"TokenProperties":{"shape":"MaxSize3StringList"},
"ClientToken":{"shape":"ClientToken"}
}
},
"CreateTokenResponse":{
"type":"structure",
"members":{
"TokenId":{"shape":"String"},
"TokenType":{"shape":"TokenType"},
"Token":{"shape":"TokenString"}
}
},
"DateTime":{"type":"timestamp"},
"DatetimeRange":{

"type":"structure",
"required":["Begin"],
"members":{
"Begin":{"shape":"ISO8601DateTime"},
"End":{"shape":"ISO8601DateTime"}
}
},
"DeleteGrantRequest":{
"type":"structure",
"required":[
"GrantArn",
"Version"
],
"members":{
"GrantArn":{"shape":"Arn"},
"StatusReason":{"shape":"StatusReasonMessage"},
"Version":{"shape":"String"}
}
},
"DeleteGrantResponse":{
"type":"structure",
"members":{
"GrantArn":{"shape":"Arn"},
"Status":{"shape":"GrantStatus"},

"Version":{"shape":"String"}
}
},
"DeleteLicenseConfigurationRequest":{
"type":"structure",
"required":["LicenseConfigurationArn"],
"members":{
"LicenseConfigurationArn":{"shape":"String"}
}
},
"DeleteLicenseConfigurationResponse":{
"type":"structure",
"members":{
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},
"DeleteLicenseManagerReportGeneratorRequest":{
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"required":["LicenseManagerReportGeneratorArn"],
"members":{
"LicenseManagerReportGeneratorArn":{"shape":"String"}
}
},
"DeleteLicenseManagerReportGeneratorResponse":{
"type":"structure",
"members":{
}
},
"DeleteLicenseRequest":{
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"SourceVersion":{"shape":"String"}
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"DeleteLicenseResponse":{
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"DeletionDate":{"shape":"ISO8601DateTime"}
}
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"DeleteTokenRequest":{
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  }
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"DeleteTokenResponse":{
  "type":"structure",
  "members":{
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"DigitalSignatureMethod":{

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  "enum":["JWT_PS384"]
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    "Unit"
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    "Overage":{"shape":"BoxBoolean"},
    "Unit":{"shape":"EntitlementUnit"},
    "AllowCheckIn":{"shape":"BoxBoolean"}
  }
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    "Unit"
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    "Value":{"shape":"String"},
    "Unit":{"shape":"EntitlementDataUnit"}
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"Count/Second"
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  }
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"ExtendLicenseConsumptionResponse":{
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  "members":{
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    "Expiration":{"shape":"ISO8601DateTime"}
  }
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  },
  "exception":true
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    "Values":{"shape":"FilterValues"}
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"FilterLimitExceededException":{
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  "exception":true
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"GetAccessTokenResponse":{
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"Version":{"shape":"String"}
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"GetGrantResponse":{
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"Grant":{"shape":"Grant"}
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"GetLicenseConfigurationResponse":{
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"LicenseConfigurationArn":{"shape":"String"},
"Name":{"shape":"String"},
"Description":{"shape":"String"},
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"LicenseRules":{"shape":"StringList"},
"LicenseCount":{"shape":"BoxLong"},
"LicenseCountHardLimit":{"shape":"BoxBoolean"},
"ConsumedLicenses":{"shape":"BoxLong"},
"Status":{"shape":"String"},
"OwnerAccountId":{"shape":"String"},

"ConsumedLicenseSummaryList":{"shape":"ConsumedLicenseSummaryList"},
"ManagedResourceSummaryList":{"shape":"ManagedResourceSummaryList"},
"Tags":{"shape":"TagList"},
"ProductInformationList":{"shape":"ProductInformationList"},
"AutomatedDiscoveryInformation":{"shape":"AutomatedDiscoveryInformation"},
"DisassociateWhenNotFound":{"shape":"BoxBoolean"}
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"DestinationLicenseContext":{"shape":"LicenseConversionContext"},
"StatusMessage":{"shape":"String"},
"Status":{"shape":"LicenseConversionTaskStatus"},
"StartTime":{"shape":"DateTime"},
"LicenseConversionTime":{"shape":"DateTime"},
"EndTime":{"shape":"DateTime"}
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},
"GetLicenseManagerReportGeneratorResponse":{
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"GetLicenseRequest":{
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"members":{
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"Version":{"shape":"String"}

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"GetLicenseResponse":{
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"GetLicenseUsageRequest":{
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  "members":{
    "LicenseArn":{"shape":"Arn"}
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"GetLicenseUsageResponse":{
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  "members":{
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"GetServiceSettingsResponse":{
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    "OrganizationConfiguration":{"shape":"OrganizationConfiguration"},
    "EnableCrossAccountsDiscovery":{"shape":"BoxBoolean"},
    "LicenseManagerResourceShareArn":{"shape":"String"}
  }
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    "ParentArn",
    "LicenseArn",
    "GranteePrincipalArn",
    "HomeRegion",
    "GrantStatus",
    "Version",
    "GrantedOperations"
```

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  ],
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    "ParentArn":{"shape":"Arn"},
    "LicenseArn":{"shape":"Arn"},
    "GranteePrincipalArn":{"shape":"Arn"},
    "HomeRegion":{"shape":"String"},
    "GrantStatus":{"shape":"GrantStatus"},
    "StatusReason":{"shape":"StatusReasonMessage"},
    "Version":{"shape":"String"},
    "GrantedOperations":{"shape":"AllowedOperationList"},
     "Options":{"shape":"Options"}
  }
},
"GrantList":{
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  "member":{"shape":"Grant"}
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"GrantStatus":{
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    "PENDING_ACCEPT",
    "REJECTED",
    "ACTIVE",
    "FAILED_WORKFLOW",
    "DELETED",
    "PENDING_DELETE",
    "DISABLED",
    "WORKFLOW_COMPLETED"
  ]
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"GrantedLicense":{
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    "ProductName":{"shape":"String"},
    "ProductSKU":{"shape":"String"},
    "Issuer":{"shape":"IssuerDetails"},
    "HomeRegion":{"shape":"String"},
    "Status":{"shape":"LicenseStatus"},
    "Validity":{"shape":"DatetimeRange"},
    "Beneficiary":{"shape":"String"},
    "Entitlements":{"shape":"EntitlementList"},
    "ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},
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"LicenseMetadata":{"shape":"MetadataList"},
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"ReceivedMetadata":{"shape":"ReceivedMetadata"}
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"GrantedLicenseList":{
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"exception":true
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"InventoryFilter":{
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"Condition"
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"Condition":{"shape":"InventoryFilterCondition"},
"Value":{"shape":"String"}
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"InventoryFilterCondition":{
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"NOT_EQUALS",
"BEGINS_WITH",
"CONTAINS"
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"InventoryFilterList":{
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"SignKey":{"shape":"String"}
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"Name":{"shape":"String"},
"SignKey":{"shape":"String"},
"KeyFingerprint":{"shape":"String"}
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},
"License":{
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"ProductName":{"shape":"String"},
"ProductSKU":{"shape":"String"},
"Issuer":{"shape":"IssuerDetails"},
"HomeRegion":{"shape":"String"},
"Status":{"shape":"LicenseStatus"},
"Validity":{"shape":"DatetimeRange"},
"Beneficiary":{"shape":"String"},
"Entitlements":{"shape":"EntitlementList"},
"ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},
"LicenseMetadata":{"shape":"MetadataList"},
"CreateTime":{"shape":"ISO8601DateTime"},
"Version":{"shape":"String"}
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"LicenseRules":{"shape":"StringList"},
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"LicenseCountHardLimit":{"shape":"BoxBoolean"},
"DisassociateWhenNotFound":{"shape":"BoxBoolean"},
"ConsumedLicenses":{"shape":"BoxLong"},
"Status":{"shape":"String"},
"OwnerAccountId":{"shape":"String"},
"ConsumedLicenseSummaryList":{"shape":"ConsumedLicenseSummaryList"},
"ManagedResourceSummaryList":{"shape":"ManagedResourceSummaryList"},
"ProductInformationList":{"shape":"ProductInformationList"},
"AutomatedDiscoveryInformation":{"shape":"AutomatedDiscoveryInformation"}
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"LicenseConfigurationAssociation":{
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"ResourceType":{"shape":"ResourceType"},
"ResourceOwnerId":{"shape":"String"},
"AssociationTime":{"shape":"DateTime"},
"AmiAssociationScope":{"shape":"String"}
}
},
"LicenseConfigurationAssociations":{
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"LicenseConfigurationStatus":{
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"DISABLED"
]
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"LicenseConfigurationUsage":{
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"ResourceType":{"shape":"ResourceType"},
"ResourceStatus":{"shape":"String"},
"ResourceOwnerId":{"shape":"String"},
"AssociationTime":{"shape":"DateTime"},
"ConsumedLicenses":{"shape":"BoxLong"}

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  }
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"LicenseConfigurationUsageList":{
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"LicenseConfigurations":{
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  "member":{"shape":"LicenseConfiguration"}
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"LicenseConversionContext":{
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  "members":{
    "UsageOperation":{"shape":"UsageOperation"}
  }
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"LicenseConversionTask":{
  "type":"structure",
  "members":{
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    "SourceLicenseContext":{"shape":"LicenseConversionContext"},
    "DestinationLicenseContext":{"shape":"LicenseConversionContext"},
    "Status":{"shape":"LicenseConversionTaskStatus"},
    "StatusMessage":{"shape":"String"},
    "StartTime":{"shape":"DateTime"},
    "LicenseConversionTime":{"shape":"DateTime"},
    "EndTime":{"shape":"DateTime"}
  }
},
"LicenseConversionTaskId":{
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  "max":50,
  "pattern":"^lct-[a-zA-Z0-9]*"
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"LicenseConversionTaskStatus":{
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    "SUCCEEDED",
    "FAILED"
  ]
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"LicenseConversionTasks":{
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  "member":{"shape":"LicenseConversionTask"}
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"LicenseCountingType":{
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    "Core",
    "Socket"
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"LicenseDeletionStatus":{
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  "enum":[
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    "DELETED"
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"LicenseList":{
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  "member":{"shape":"License"}
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"LicenseOperationFailure":{
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    "ResourceType":{"shape":"ResourceType"},
    "ErrorMessage":{"shape":"String"},
    "FailureTime":{"shape":"DateTime"},
    "OperationName":{"shape":"String"},
    "ResourceOwnerId":{"shape":"String"},
    "OperationRequestedBy":{"shape":"String"},
    "MetadataList":{"shape":"MetadataList"}
  }
},
"LicenseOperationFailureList":{
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  "member":{"shape":"LicenseOperationFailure"}
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  "required":["LicenseConfigurationArn"],
  "members":{
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    "AmiAssociationScope":{"shape":"String"}
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 "LicenseSpecifications":{
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  "member":{"shape":"LicenseSpecification"}
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"DEACTIVATED",
"SUSPENDED",
"EXPIRED",
"PENDING_DELETE",
"DELETED"
]
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"LicenseUsage":{
"type":"structure",
"members":{
"EntitlementUsages":{"shape":"EntitlementUsageList"}
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},
"LicenseUsageException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"exception":true
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"ListAssociationsForLicenseConfigurationRequest":{
"type":"structure",
"required":["LicenseConfigurationArn"],
"members":{
"LicenseConfigurationArn":{"shape":"String"},
"MaxResults":{"shape":"BoxInteger"},
"NextToken":{"shape":"String"}
}
},
"ListAssociationsForLicenseConfigurationResponse":{
"type":"structure",
"members":{
"LicenseConfigurationAssociations":{"shape":"LicenseConfigurationAssociations"},
"NextToken":{"shape":"String"}
}
},
"ListDistributedGrantsRequest":{
"type":"structure",
"members":{
"GrantArns":{"shape":"ArnList"},
"Filters":{"shape":"FilterList"},
"NextToken":{"shape":"String"},
"MaxResults":{"shape":"MaxSize100"}

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  }
},
"ListDistributedGrantsResponse":{
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  "members":{
    "Grants":{"shape":"GrantList"},
    "NextToken":{"shape":"String"}
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},
"ListFailuresForLicenseConfigurationOperationsRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{"shape":"String"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"}
  }
},
"ListFailuresForLicenseConfigurationOperationsResponse":{
  "type":"structure",
   "members":{
    "LicenseOperationFailureList":{"shape":"LicenseOperationFailureList"},
    "NextToken":{"shape":"String"}
  }
},
"ListLicenseConfigurationsRequest":{
  "type":"structure",
  "members":{
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    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"},
    "Filters":{"shape":"Filters"}
  }
},
"ListLicenseConfigurationsResponse":{
  "type":"structure",
  "members":{
    "LicenseConfigurations":{"shape":"LicenseConfigurations"},
    "NextToken":{"shape":"String"}
  }
},
"ListLicenseConversionTasksRequest":{
  "type":"structure",
  "members":{
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"BoxInteger"},
    "Filters":{"shape":"Filters"}
  }
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},
"ListLicenseConversionTasksResponse":{
  "type":"structure",
  "members":{
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     "NextToken":{"shape":"String"}
  }
},
"ListLicenseManagerReportGeneratorsRequest":{
  "type":"structure",
  "members":{
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    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
},
"ListLicenseManagerReportGeneratorsResponse":{
  "type":"structure",
  "members":{
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    "NextToken":{"shape":"String"}
  }
},
"ListLicenseSpecificationsForResourceRequest":{
  "type":"structure",
  "required":["ResourceArn"],
  "members":{
    "ResourceArn":{"shape":"String"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"}
  }
},
"ListLicenseSpecificationsForResourceResponse":{
  "type":"structure",
  "members":{
    "LicenseSpecifications":{"shape":"LicenseSpecifications"},
    "NextToken":{"shape":"String"}

}
},
"ListLicenseVersionsRequest":{
  "type":"structure",
  "required":["LicenseArn"],
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
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},
"ListLicenseVersionsResponse":{
  "type":"structure",
  "members":{
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    "NextToken":{"shape":"String"}
  }
},
"ListLicensesRequest":{
  "type":"structure",
  "members":{
    "LicenseArns":{"shape":"ArnList"},
    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
},
"ListLicensesResponse":{
  "type":"structure",
  "members":{
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    "NextToken":{"shape":"String"}
  }
},
"ListReceivedGrantsForOrganizationRequest":{
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  "required":["LicenseArn"],
  "members":{
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    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
},
"ListReceivedGrantsForOrganizationResponse":{
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  "members":{
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    "NextToken":{"shape":"String"}
  }
},
"ListReceivedGrantsRequest":{
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  "members":{
    "GrantArns":{"shape":"ArnList"},
    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
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  }
},
"ListReceivedGrantsResponse":{
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  "members":{
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    "NextToken":{"shape":"String"}
  }
},
"ListReceivedLicensesForOrganizationRequest":{
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  "members":{
    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
   }
},
"ListReceivedLicensesForOrganizationResponse":{
  "type":"structure",
  "members":{
    "Licenses":{"shape":"GrantedLicenseList"},
    "NextToken":{"shape":"String"}
  }
},
"ListReceivedLicensesRequest":{
  "type":"structure",
  "members":{
    "LicenseArns":{"shape":"ArnList"},
    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
},
"ListReceivedLicensesResponse":{
  "type":"structure",
  "members":{
    "Licenses":{"shape":"GrantedLicenseList"},
    "NextToken":{"shape":"String"}
  }
},
"ListResourceInventoryRequest":{
  "type":"structure",
  "members":{
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"},
    "Filters":{"shape":"InventoryFilterList"}
  }
},
```

"ListResourceInventoryResponse":{
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  "members":{
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     "NextToken":{"shape":"String"}
  }
},
"ListTagsForResourceRequest":{
  "type":"structure",
  "required":["ResourceArn"],
  "members":{
    "ResourceArn":{"shape":"String"}
  }
},
"ListTagsForResourceResponse":{
  "type":"structure",
  "members":{
    "Tags":{"shape":"TagList"}
  }
},
"ListTokensRequest":{
  "type":"structure",
  "members":{
    "TokenIds":{"shape":"StringList"},
    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
},
"ListTokensResponse":{
  "type":"structure",
  "members":{
    "Tokens":{"shape":"TokenList"},
    "NextToken":{"shape":"String"}
  }
},
"ListUsageForLicenseConfigurationRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{"shape":"String"},
     "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"},
    "Filters":{"shape":"Filters"}
  }
},
"ListUsageForLicenseConfigurationResponse":{
  "type":"structure",

```
  "members":{
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    "NextToken":{"shape":"String"}
  }
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"Long":{"type":"long"},
"ManagedResourceSummary":{
  "type":"structure",
  "members":{
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    "AssociationCount":{"shape":"BoxLong"}
  }
},
"ManagedResourceSummaryList":{
  "type":"list",
  "member":{"shape":"ManagedResourceSummary"}
},
"MaxSize100":{
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  "min":1
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  "member":{"shape":"String"},
  "max":3
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"Message":{"type":"string"},
"Metadata":{
  "type":"structure",
   "members":{
    "Name":{"shape":"String"},
    "Value":{"shape":"String"}
  }
},
"MetadataList":{
  "type":"list",
  "member":{"shape":"Metadata"}
},
"NoEntitlementsAllowedException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"Options":{
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"ActivationOverrideBehavior":{"shape":"ActivationOverrideBehavior"}
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},
"OrganizationConfiguration":{
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"required":["EnableIntegration"],
"members":{
"EnableIntegration":{"shape":"Boolean"}
}
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"PrincipalArnList":{
"type":"list",
"member":{"shape":"Arn"},
"max":1,
"min":1
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"ProductInformation":{
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"required":[
"ResourceType",
"ProductInformationFilterList"
],
"members":{
"ResourceType":{"shape":"String"},
"ProductInformationFilterList":{"shape":"ProductInformationFilterList"}
}
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"ProductInformationFilter":{
"type":"structure",
"required":[
"ProductInformationFilterName",
"ProductInformationFilterComparator"
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"members":{
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"ProductInformationFilterValue":{"shape":"StringList"},
"ProductInformationFilterComparator":{"shape":"String"}
}
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"ProductInformationFilterList":{
"type":"list",
"member":{"shape":"ProductInformationFilter"}
},
"ProductInformationList":{
"type":"list",
"member":{"shape":"ProductInformation"}

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},
"ProvisionalConfiguration":{
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  "required":["MaxTimeToLiveInMinutes"],
  "members":{
    "MaxTimeToLiveInMinutes":{"shape":"BoxInteger"}
  }
},
"RateLimitExceededException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
   },
  "exception":true
},
"ReceivedMetadata":{
  "type":"structure",
  "members":{
    "ReceivedStatus":{"shape":"ReceivedStatus"},
    "ReceivedStatusReason":{"shape":"StatusReasonMessage"},
    "AllowedOperations":{"shape":"AllowedOperationList"}
  }
},
"ReceivedStatus":{
  "type":"string",
  "enum":[
    "PENDING_WORKFLOW",
    "PENDING_ACCEPT",
    "REJECTED",
    "ACTIVE",
    "FAILED_WORKFLOW",
    "DELETED",
    "DISABLED",
    "WORKFLOW_COMPLETED"
  ]
},
"RedirectException":{
  "type":"structure",
  "members":{
    "Location":{"shape":"Location"},
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"RejectGrantRequest":{
  "type":"structure",
  "required":["GrantArn"],
  "members":{
```

```
    "GrantArn":{"shape":"Arn"}
  }
},
"RejectGrantResponse":{
  "type":"structure",
  "members":{
     "GrantArn":{"shape":"Arn"},
    "Status":{"shape":"GrantStatus"},
    "Version":{"shape":"String"}
  }
},
"RenewType":{
  "type":"string",
  "enum":[
    "None",
    "Weekly",
    "Monthly"
  ]
},
"ReportContext":{
  "type":"structure",
  "required":["licenseConfigurationArns"],
  "members":{
    "licenseConfigurationArns":{"shape":"ArnList"}
  }
},
"ReportFrequency":{
  "type":"structure",
  "members":{
    "value":{"shape":"Integer"},
    "period":{"shape":"ReportFrequencyType"}
  }
},
"ReportFrequencyType":{
  "type":"string",
  "enum":[
    "DAY",
    "WEEK",
    "MONTH"
  ]
},
"ReportGenerator":{
  "type":"structure",
  "members":{
    "ReportGeneratorName":{"shape":"String"},
    "ReportType":{"shape":"ReportTypeList"},
    "ReportContext":{"shape":"ReportContext"},
    "ReportFrequency":{"shape":"ReportFrequency"},
```

"LicenseManagerReportGeneratorArn":{"shape":"String"},
"LastRunStatus":{"shape":"String"},
"LastRunFailureReason":{"shape":"String"},
"LastReportGenerationTime":{"shape":"String"},
"ReportCreatorAccount":{"shape":"String"},
"Description":{"shape":"String"},
"S3Location":{"shape":"S3Location"},
"CreateTime":{"shape":"String"},
"Tags":{"shape":"TagList"}
}
},
"ReportGeneratorList":{
"type":"list",
"member":{"shape":"ReportGenerator"}
},
"ReportGeneratorName":{
"type":"string",
"max":100,
"min":1
},
"ReportType":{
"type":"string",
"enum":[
"LicenseConfigurationSummaryReport",
"LicenseConfigurationUsageReport"
]
},
"ReportTypeList":{
"type":"list",
"member":{"shape":"ReportType"}
},
"ResourceInventory":{
"type":"structure",
"members":{
"ResourceId":{"shape":"String"},
"ResourceType":{"shape":"ResourceType"},
"ResourceArn":{"shape":"String"},
"Platform":{"shape":"String"},
"PlatformVersion":{"shape":"String"},
"ResourceOwningAccountId":{"shape":"String"}
}
},
"ResourceInventoryList":{
"type":"list",
"member":{"shape":"ResourceInventory"}
},
"ResourceLimitExceededException":{
"type":"structure",

```
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"ResourceNotFoundException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"ResourceType":{
  "type":"string",
  "enum":[
    "EC2_INSTANCE",
    "EC2_HOST",
    "EC2_AMI",
    "RDS",
    "SYSTEMS_MANAGER_MANAGED_INSTANCE"
  ]
},
"S3Location":{
  "type":"structure",
  "members":{
    "bucket":{"shape":"String"},
    "keyPrefix":{"shape":"String"}

}
},
"ServerInternalException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true,
  "fault":true
},
"SignedToken":{
  "type":"string",
  "min":4096
},
"StatusReasonMessage":{
  "type":"string",
  "max":400,
  "pattern":"[\\s\\S]+"
},
"String":{"type":"string"},
```

"StringList":{
  "type":"list",
  "member":{"shape":"String"}
},
"Tag":{
  "type":"structure",
  "members":{
    "Key":{"shape":"String"},
    "Value":{"shape":"String"}
  }
},
"TagKeyList":{
  "type":"list",
  "member":{"shape":"String"}
},
"TagList":{
  "type":"list",
  "member":{"shape":"Tag"}
},
"TagResourceRequest":{
  "type":"structure",
  "required":[
    "ResourceArn",
    "Tags"
  ],
  "members":{
    "ResourceArn":{"shape":"String"},
    "Tags":{"shape":"TagList"}
  }
},
"TagResourceResponse":{
   "type":"structure",
  "members":{
  }
},
"TokenData":{
  "type":"structure",
  "members":{
    "TokenId":{"shape":"String"},
    "TokenType":{"shape":"String"},
    "LicenseArn":{"shape":"String"},
    "ExpirationTime":{"shape":"ISO8601DateTime"},
    "TokenProperties":{"shape":"MaxSize3StringList"},
    "RoleArns":{"shape":"ArnList"},
    "Status":{"shape":"String"}
  }
},
"TokenList":{

```
  "type":"list",
  "member":{"shape":"TokenData"}
},
"TokenString":{
  "type":"string",
  "max":4096,
  "pattern":"\\S+"
},
"TokenType":{
  "type":"string",
  "enum":["REFRESH_TOKEN"]
},
"UnsupportedDigitalSignatureMethodException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"UntagResourceRequest":{
  "type":"structure",
  "required":[
    "ResourceArn",
    "TagKeys"
   ],
  "members":{
    "ResourceArn":{"shape":"String"},
    "TagKeys":{"shape":"TagKeyList"}
  }
},
"UntagResourceResponse":{
  "type":"structure",
  "members":{
  }
},
"UpdateLicenseConfigurationRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{"shape":"String"},
    "LicenseConfigurationStatus":{"shape":"LicenseConfigurationStatus"},
    "LicenseRules":{"shape":"StringList"},
    "LicenseCount":{"shape":"BoxLong"},
    "LicenseCountHardLimit":{"shape":"BoxBoolean"},
    "Name":{"shape":"String"},
    "Description":{"shape":"String"},
    "ProductInformationList":{"shape":"ProductInformationList"},
    "DisassociateWhenNotFound":{"shape":"BoxBoolean"}
```

```
  }
},
"UpdateLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
  }
},
"UpdateLicenseManagerReportGeneratorRequest":{
   "type":"structure",
  "required":[
    "LicenseManagerReportGeneratorArn",
    "ReportGeneratorName",
    "Type",
    "ReportContext",
    "ReportFrequency",
    "ClientToken"
  ],
  "members":{
    "LicenseManagerReportGeneratorArn":{"shape":"String"},
    "ReportGeneratorName":{"shape":"ReportGeneratorName"},
    "Type":{"shape":"ReportTypeList"},
    "ReportContext":{"shape":"ReportContext"},
    "ReportFrequency":{"shape":"ReportFrequency"},
    "ClientToken":{"shape":"ClientRequestToken"},
    "Description":{"shape":"String"}
  }
},
"UpdateLicenseManagerReportGeneratorResponse":{
  "type":"structure",
  "members":{
  }
},
"UpdateLicenseSpecificationsForResourceRequest":{
  "type":"structure",
  "required":["ResourceArn"],
  "members":{
    "ResourceArn":{"shape":"String"},
    "AddLicenseSpecifications":{"shape":"LicenseSpecifications"},
    "RemoveLicenseSpecifications":{"shape":"LicenseSpecifications"}
   }
},
"UpdateLicenseSpecificationsForResourceResponse":{
  "type":"structure",
  "members":{
  }
},
"UpdateServiceSettingsRequest":{
  "type":"structure",
```

"members":{
"S3BucketArn":{"shape":"String"},
"SnsTopicArn":{"shape":"String"},
"OrganizationConfiguration":{"shape":"OrganizationConfiguration"},
"EnableCrossAccountsDiscovery":{"shape":"BoxBoolean"}
}
},
"UpdateServiceSettingsResponse":{
"type":"structure",
"members":{
}
},
"UsageOperation":{
"type":"string",
"max":50
},
"ValidationException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"exception":true
}
}
}
{
"version": "2.0",
"service": " License Manager makes it easier to manage licenses from software vendors across multiple Amazon Web Services accounts and on-premises servers. ",
"operations": {
"AcceptGrant": " Accepts the specified grant. ",
"CheckInLicense": " Checks in the specified license. Check in a license when it is no longer in use. ",
"CheckoutBorrowLicense": " Checks out the specified license for offline use. ",
"CheckoutLicense": " Checks out the specified license. <note> If the account that created the license is the same that is performing the check out, you must specify the account as the beneficiary. </note>",
"CreateGrant": " Creates a grant for the specified license. A grant shares the use of license entitlements with a specific Amazon Web Services account, an organization, or an organizational unit (OU). For more information, see Granted licenses in License Manager in the License Manager User Guide. ",
"CreateGrantVersion": " Creates a new version of the specified grant. For more information, see Granted licenses in License Manager in the License Manager User Guide. ",
"CreateLicense": " Creates a license. ",
"CreateLicenseConfiguration": " Creates a license configuration. A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, Dedicated Instance, Dedicated Host, or all of these), license affinity to host (how long a license must be associated with a host), and the number of licenses purchased and used. ",

"CreateLicenseConversionTaskForResource":
" Creates a new license conversion task. ",
"CreateLicenseManagerReportGenerator": " Creates a report generator. ",
"CreateLicenseVersion": " Creates a new version of the specified license. ",
"CreateToken": " Creates a long-lived token. A refresh token is a JWT token used to get an access token. With an access token, you can call AssumeRoleWithWebIdentity to get role credentials that you can use to call License Manager to manage the specified license. ",
"DeleteGrant": " Deletes the specified grant. ",
"DeleteLicense": " Deletes the specified license. ",
"DeleteLicenseConfiguration": " Deletes the specified license configuration. You cannot delete a license configuration that is in use. ",
"DeleteLicenseManagerReportGenerator": " Deletes the specified report generator. This action deletes the report generator, which stops it from generating future reports. The action cannot be reversed. It has no effect on the previous reports from this generator. ",
"DeleteToken": " Deletes the specified token. Must be called in the license home Region. ",
"ExtendLicenseConsumption": " Extends the expiration date for license consumption. ",
"GetAccessToken": " Gets a temporary access token to use with AssumeRoleWithWebIdentity. Access tokens are valid for one hour. ",
"GetGrant": " Gets detailed information about the specified grant. ",
"GetLicense": " Gets detailed information about the specified license. ",
"GetLicenseConfiguration": " Gets detailed information about the specified license configuration. ",
"GetLicenseConversionTask": " Gets information about the specified license type conversion task. ",
"GetLicenseManagerReportGenerator": " Gets information about the specified report generator. ",
"GetLicenseUsage": " Gets detailed information about the usage of the specified license. ",
"GetServiceSettings":
" Gets the License Manager settings for the current Region. ",
"ListAssociationsForLicenseConfiguration": " Lists the resource associations for the specified license configuration. Resource associations need not consume licenses from a license configuration. For example, an AMI or a stopped instance might not consume a license (depending on the license rules). ",
"ListDistributedGrants": " Lists the grants distributed for the specified license. ",
"ListFailuresForLicenseConfigurationOperations": " Lists the license configuration operations that failed. ",
"ListLicenseConfigurations": " Lists the license configurations for your account. ",
"ListLicenseConversionTasks": " Lists the license type conversion tasks for your account. ",
"ListLicenseManagerReportGenerators": " Lists the report generators for your account. ",
"ListLicenseSpecificationsForResource": " Describes the license configurations for the specified resource. ",
"ListLicenseVersions": " Lists all versions of the specified license. ",
"ListLicenses": " Lists the licenses for your account. ",
"ListReceivedGrants": " Lists grants that are received. Received grants are grants created while specifying the recipient as this Amazon Web Services account, your organization, or an organizational unit (OU) to which this member account belongs. ",
"ListReceivedGrantsForOrganization": " Lists the grants received for all accounts in the organization. ",
"ListReceivedLicenses": " Lists received licenses. ",
"ListReceivedLicensesForOrganization": " Lists the licenses received for all accounts in the organization. ",
"ListResourceInventory": " Lists resources managed using Systems Manager inventory. ",
"ListTagsForResource": " Lists the tags for the specified license configuration. ",

"ListTokens": " Lists your tokens. ",
"ListUsageForLicenseConfiguration":
" Lists all license usage records for a license configuration, displaying license consumption details by resource at a selected point in time. Use this action to audit the current license consumption for any license inventory and configuration. ",
"RejectGrant": " Rejects the specified grant. ",
"TagResource": " Adds the specified tags to the specified license configuration. ",
"UntagResource": " Removes the specified tags from the specified license configuration. ",
"UpdateLicenseConfiguration": " Modifies the attributes of an existing license configuration. ",
"UpdateLicenseManagerReportGenerator": " Updates a report generator. After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated. ",
"UpdateLicenseSpecificationsForResource": " Adds or removes the specified license configurations for the specified Amazon Web Services resource. You can update the
license specifications of AMIs, instances, and hosts. You cannot update the license specifications for launch templates and CloudFormation templates, as they send license configurations to the operation that creates the resource. ",
"UpdateServiceSettings": " Updates License Manager settings for the current Region. "
},
"shapes": {
"AcceptGrantRequest": {
"base": null,
"refs": {
}
},
"AcceptGrantResponse": {
"base": null,
"refs": {
}
},
"AccessDeniedException": {
"base": " Access to resource denied. ",
"refs": {
}
},
"ActivationOverrideBehavior": {
"base": null,
"refs": {
"Options$ActivationOverrideBehavior": " An activation option for your grant that determines the behavior of activating a grant. Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code>
for the <code>Status</code> parameter.   As a license administrator, you can optionally specify an <code>ActivationOverrideBehavior</code> when activating a grant.   As a grantor, you can optionally specify an <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee account in your organization.   As a grantee, if the grantor creating the distributed grant doesnt specify an <code>ActivationOverrideBehavior</code>, you can optionally specify one when you are activating the grant.   <dl> <dt>DISTRIBUTED_GRANTS_ONLY</dt> <dd> Use this value to activate a grant without replacing any member accounts active grants for the same product. </dd>
<dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt> <dd> Use this value to activate a grant and disable

other active grants in any member accounts for the same product. This action will also replace their previously activated grants with this activated grant.
</dd> </dl>"
    }
  },
  "AllowedOperation": {
    "base": null,
    "refs": {
      "AllowedOperationList$member": null
    }
  },
  "AllowedOperationList": {
    "base": null,
    "refs": {
      "CreateGrantRequest$AllowedOperations": " Allowed operations for the grant. ",
      "CreateGrantVersionRequest$AllowedOperations": " Allowed operations for the grant. ",
      "Grant$GrantedOperations": " Granted operations. ",
      "ReceivedMetadata$AllowedOperations": " Allowed operations. "
    }
  },
  "Arn": {
    "base": null,
    "refs": {
      "AcceptGrantRequest$GrantArn": " Amazon Resource Name (ARN) of the grant. ",
      "AcceptGrantResponse$GrantArn": " Grant ARN. ",
      "ArnList$member": null,
      "CheckoutBorrowLicenseRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. The license must use the borrow consumption configuration. ",
      "CheckoutBorrowLicenseResponse$LicenseArn":
 " Amazon Resource Name (ARN) of the license. ",
      "CreateGrantRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
      "CreateGrantResponse$GrantArn": " Grant ARN. ",
      "CreateGrantVersionRequest$GrantArn": " Amazon Resource Name (ARN) of the grant. ",
      "CreateGrantVersionResponse$GrantArn": " Grant ARN. ",
      "CreateLicenseConversionTaskForResourceRequest$ResourceArn": " Amazon Resource Name (ARN) of the resource you are converting the license type for. ",
      "CreateLicenseResponse$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
      "CreateLicenseVersionRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
      "CreateLicenseVersionResponse$LicenseArn": " License ARN. ",
      "CreateTokenRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the JWT token. ",
      "DeleteGrantRequest$GrantArn":
 " Amazon Resource Name (ARN) of the grant. ",
      "DeleteGrantResponse$GrantArn": " Grant ARN. ",
      "DeleteLicenseRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
      "GetGrantRequest$GrantArn": " Amazon Resource Name (ARN) of the grant. ",
      "GetLicenseRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
      "GetLicenseUsageRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. ",

"Grant$GrantArn": " Amazon Resource Name (ARN) of the grant. ",
"Grant$ParentArn": " Parent ARN. ",
"Grant$LicenseArn": " License ARN. ",
"Grant$GranteePrincipalArn": " The grantee principal ARN. ",
"GrantedLicense$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"License$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"ListLicenseVersionsRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"ListReceivedGrantsForOrganizationRequest$LicenseArn": " The Amazon Resource Name (ARN) of the received license. ",
"PrincipalArnList$member": null,
"RejectGrantRequest$GrantArn": " Amazon Resource Name (ARN) of the grant. ",
"RejectGrantResponse$GrantArn": " Grant ARN. "
}
},
"ArnList": {
"base": null,
"refs": {
"CreateTokenRequest$RoleArns": " Amazon Resource Name (ARN) of the IAM roles to embed in the token. License Manager does not check whether the roles are in use. ",
"ListDistributedGrantsRequest$GrantArns": " Amazon Resource Names (ARNs) of the grants. ",
"ListLicensesRequest$LicenseArns": " Amazon Resource Names (ARNs) of the licenses. ",
"ListReceivedGrantsRequest$GrantArns": " Amazon Resource Names (ARNs) of the grants. ",
"ListReceivedLicensesRequest$LicenseArns": " Amazon Resource Names (ARNs) of the licenses. ",

"ReportContext$licenseConfigurationArns": " Amazon Resource Name (ARN) of the license configuration that this generator reports on. ",
"TokenData$RoleArns": " Amazon Resource Names (ARN) of the roles included in the token. "
}
},
"AuthorizationException": {
"base": " The Amazon Web Services user account does not have permission to perform the action. Check the IAM policy associated with this account. ",
"refs": {
}
},
"AutomatedDiscoveryInformation": {
"base": " Describes automated discovery. ",
"refs": {
"GetLicenseConfigurationResponse$AutomatedDiscoveryInformation": " Automated discovery information. ",
"LicenseConfiguration$AutomatedDiscoveryInformation": " Automated discovery information. "
}
},
"Boolean": {
"base": null,
"refs": {
"ExtendLicenseConsumptionRequest$DryRun": " Checks whether you have the required permissions for the

action,
without actually making the request. Provides an error response if you do not have the required permissions. ",
"OrganizationConfiguration$EnableIntegration": " Enables Organizations integration. "
}
},
"BorrowConfiguration": {
"base": " Details about a borrow configuration. ",
"refs": {
"ConsumptionConfiguration$BorrowConfiguration": " Details about a borrow configuration. "
}
},
"BoxBoolean": {
"base": null,
"refs": {
"BorrowConfiguration$AllowEarlyCheckIn": " Indicates whether early check-ins are allowed. ",
"CreateLicenseConfigurationRequest$LicenseCountHardLimit": " Indicates whether hard or soft license enforcement is used. Exceeding a hard limit blocks the launch of new instances. ",
"CreateLicenseConfigurationRequest$DisassociateWhenNotFound": " When true, disassociates a resource when software is uninstalled. ",
"Entitlement$Overage": " Indicates
whether overages are allowed. ",
"Entitlement$AllowCheckIn": " Indicates whether check-ins are allowed. ",
"GetLicenseConfigurationResponse$LicenseCountHardLimit": " Sets the number of available licenses as a hard limit. ",
"GetLicenseConfigurationResponse$DisassociateWhenNotFound": " When true, disassociates a resource when software is uninstalled. ",
"GetServiceSettingsResponse$EnableCrossAccountsDiscovery": " Indicates whether cross-account discovery is enabled. ",
"LicenseConfiguration$LicenseCountHardLimit": " Number of available licenses as a hard limit. ",
"LicenseConfiguration$DisassociateWhenNotFound": " When true, disassociates a resource when software is uninstalled. ",
"UpdateLicenseConfigurationRequest$LicenseCountHardLimit": " New hard limit of the number of available licenses. ",
"UpdateLicenseConfigurationRequest$DisassociateWhenNotFound": " When true, disassociates
a resource when software is uninstalled. ",
"UpdateServiceSettingsRequest$EnableCrossAccountsDiscovery": " Activates cross-account discovery. "
}
},
"BoxInteger": {
"base": null,
"refs": {
"BorrowConfiguration$MaxTimeToLiveInMinutes": " Maximum time for the borrow configuration, in minutes. ",
"ListAssociationsForLicenseConfigurationRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListFailuresForLicenseConfigurationOperationsRequest$MaxResults": " Maximum number of results to return in a single call. ",

"ListLicenseConfigurationsRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListLicenseConversionTasksRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListLicenseSpecificationsForResourceRequest$MaxResults": " Maximum number of results to return in a single call. ",

"ListResourceInventoryRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListUsageForLicenseConfigurationRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ProvisionalConfiguration$MaxTimeToLiveInMinutes": " Maximum time for the provisional configuration, in minutes. "
}
},
"BoxLong": {
"base": null,
"refs": {
"ConsumedLicenseSummary$ConsumedLicenses": " Number of licenses consumed by the resource. ",
"CreateLicenseConfigurationRequest$LicenseCount": " Number of licenses managed by the license configuration. ",
"GetLicenseConfigurationResponse$LicenseCount": " Number of available licenses. ",
"GetLicenseConfigurationResponse$ConsumedLicenses": " Number of licenses assigned to resources. ",
"LicenseConfiguration$LicenseCount": " Number of licenses managed by the license configuration. ",
"LicenseConfiguration$ConsumedLicenses": " Number of licenses consumed. ",
"LicenseConfigurationUsage$ConsumedLicenses": " Number of licenses consumed by the resource. ",
"ManagedResourceSummary$AssociationCount": " Number of resources associated with licenses. ",
"UpdateLicenseConfigurationRequest$LicenseCount": " New number of licenses managed by the license configuration. "
}
},
"CheckInLicenseRequest": {
"base": null,
"refs": {
}
},
"CheckInLicenseResponse": {
"base": null,
"refs": {
}
},
"CheckoutBorrowLicenseRequest": {
"base": null,
"refs": {
}
},
"CheckoutBorrowLicenseResponse": {
"base": null,

"refs": {
}
},
"CheckoutLicenseRequest": {
"base": null,
"refs": {
}
},
"CheckoutLicenseResponse": {
"base": null,
"refs": {
}
},
"CheckoutType": {
"base": null,
"refs": {
"CheckoutLicenseRequest$CheckoutType": " Checkout type. ",
"CheckoutLicenseResponse$CheckoutType": " Checkout type. "
}
},
"ClientRequestToken": {
"base": null,
"refs": {
"CreateLicenseManagerReportGeneratorRequest$ClientToken": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"UpdateLicenseManagerReportGeneratorRequest$ClientToken": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. "
}
},
"ClientToken": {
"base": null,
"refs": {
"CheckoutBorrowLicenseRequest$ClientToken": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"CheckoutLicenseRequest$ClientToken": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"CreateGrantRequest$ClientToken": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"CreateGrantVersionRequest$ClientToken": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"CreateLicenseRequest$ClientToken": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"CreateLicenseVersionRequest$ClientToken": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"CreateTokenRequest$ClientToken": " Idempotency token, valid for 10 minutes. "
}
},
"ConflictException": {

"base": " There was a conflict processing the request. Try your request again. ",
"refs": {
}
},
"ConsumedLicenseSummary": {
"base": " Details about license consumption. ",
"refs": {
"ConsumedLicenseSummaryList$member": null
}
},
"ConsumedLicenseSummaryList": {
"base": null,
"refs": {
"GetLicenseConfigurationResponse$ConsumedLicenseSummaryList": " Summaries of the licenses consumed by resources. ",
"LicenseConfiguration$ConsumedLicenseSummaryList": " Summaries for licenses consumed by various resources. "
}
},
"ConsumptionConfiguration": {
"base": " Details about a consumption configuration. ",
"refs": {
"CreateLicenseRequest$ConsumptionConfiguration": " Configuration for consumption of the license. Choose a provisional configuration for workloads running with continuous connectivity. Choose a borrow configuration for workloads with offline usage. ",
"CreateLicenseVersionRequest$ConsumptionConfiguration": " Configuration for consumption of the license. Choose a provisional configuration for workloads running with continuous connectivity. Choose a borrow configuration for workloads with offline usage. ",
"GrantedLicense$ConsumptionConfiguration": " Configuration for consumption of the license. ",
"License$ConsumptionConfiguration": " Configuration for consumption of the license. "
}
},
"CreateGrantRequest": {
"base": null,
"refs": {
}
},
"CreateGrantResponse": {
"base": null,
"refs": {
}
},
"CreateGrantVersionRequest": {
"base": null,
"refs": {
}
},

"CreateGrantVersionResponse": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseConfigurationRequest": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseConfigurationResponse": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseConversionTaskForResourceRequest": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseConversionTaskForResourceResponse": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseManagerReportGeneratorRequest": {
  "base": null,
  "refs": {

 }
},
"CreateLicenseManagerReportGeneratorResponse": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseRequest": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseResponse": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseVersionRequest": {
  "base": null,

"refs": {
}
},
"CreateLicenseVersionResponse": {
"base": null,
"refs": {
}
},
"CreateTokenRequest": {
"base": null,
"refs": {
}
},
"CreateTokenResponse": {
"base": null,
"refs": {
}
},
"DateTime": {
"base": null,
"refs": {
"AutomatedDiscoveryInformation$LastRunTime": " Time that automated discovery last ran. ",
"GetLicenseConversionTaskResponse$StartTime": " Time at which the license type conversion task was started . ",
"GetLicenseConversionTaskResponse$LicenseConversionTime": " Amount of time to complete the license type conversion. ",
"GetLicenseConversionTaskResponse$EndTime": " Time at which the license type conversion task was completed. ",
"LicenseConfigurationAssociation$AssociationTime": " Time when the license configuration was associated with the resource. ",
"LicenseConfigurationUsage$AssociationTime": " Time when the license configuration was initially associated with the resource. ",
"LicenseConversionTask$StartTime": " The time the conversion task was started at. ",
"LicenseConversionTask$LicenseConversionTime": " The time the usage operation value of the resource was changed. ",
"LicenseConversionTask$EndTime": " The time the conversion task was completed. ",
"LicenseOperationFailure$FailureTime": " Failure time. "
}
},
"DatetimeRange": {
"base": " Describes a time range, in ISO8601-UTC format. ",
"refs": {
"CreateLicenseRequest$Validity": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"CreateLicenseVersionRequest$Validity": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"GrantedLicense$Validity": " Date and time range during which the granted license is valid, in ISO8601-UTC format. ",

"License$Validity": " Date and time range during which the license is valid, in ISO8601-UTC format. "
}
},
"DeleteGrantRequest": {
"base": null,
"refs": {
}
},
"DeleteGrantResponse": {
"base": null,
"refs": {
}
},
"DeleteLicenseConfigurationRequest": {
"base": null,
"refs": {
}
},
"DeleteLicenseConfigurationResponse": {
"base": null,
"refs": {
}
},
"DeleteLicenseManagerReportGeneratorRequest": {
"base": null,
"refs": {
}
},
"DeleteLicenseManagerReportGeneratorResponse": {
"base": null,
"refs": {
}
},
"DeleteLicenseRequest": {
"base": null,
"refs": {
}
},
"DeleteLicenseResponse": {
"base": null,
"refs": {
}
},
"DeleteTokenRequest": {
"base": null,
"refs": {
}
},

"DeleteTokenResponse": {
"base": null,
"refs": {
}
},
"DigitalSignatureMethod": {
"base": null,
"refs": {
"CheckoutBorrowLicenseRequest$DigitalSignatureMethod": " Digital signature method. The possible value is JSON Web Signature (JWS) algorithm PS384. For more information, see RFC 7518 Digital Signature with RSASSA-PSS. "
}
},
"Entitlement": {
"base": " Describes a resource entitled for use with a license. ",
"refs": {
"EntitlementList$member": null
}
},
"EntitlementData": {
"base": " Data associated with an entitlement resource. ",

"refs": {
"EntitlementDataList$member": null
}
},
"EntitlementDataList": {
"base": null,
"refs": {
"CheckoutBorrowLicenseRequest$Entitlements": " License entitlements. Partial checkouts are not supported. ",
"CheckoutBorrowLicenseResponse$EntitlementsAllowed": " Allowed license entitlements. ",
"CheckoutLicenseRequest$Entitlements": " License entitlements. ",
"CheckoutLicenseResponse$EntitlementsAllowed": " Allowed license entitlements. "
}
},
"EntitlementDataUnit": {
"base": null,
"refs": {
"EntitlementData$Unit": " Entitlement data unit. ",
"EntitlementUsage$Unit": " Entitlement usage unit. "
}
},
"EntitlementList": {
"base": null,
"refs": {
"CreateLicenseRequest$Entitlements": " License entitlements. ",
"CreateLicenseVersionRequest$Entitlements": " License entitlements. ",

"GrantedLicense$Entitlements":
" License entitlements. ",
"License$Entitlements": " License entitlements. "
}
},
"EntitlementNotAllowedException": {
"base": " The entitlement is not allowed. ",
"refs": {
}
},
"EntitlementUnit": {
"base": null,
"refs": {
"Entitlement$Unit": " Entitlement unit. "
}
},
"EntitlementUsage": {
"base": " Usage associated with an entitlement resource. ",
"refs": {
"EntitlementUsageList$member": null
}
},
"EntitlementUsageList": {
"base": null,
"refs": {
"LicenseUsage$EntitlementUsages": " License entitlement usages. "
}
},
"ExtendLicenseConsumptionRequest": {
"base": null,
"refs": {
}
},
"ExtendLicenseConsumptionResponse": {
"base": null,
"refs": {
}
},
"FailedDependencyException": {
"base": " A dependency required to run the API is missing. ",
"refs": {
}
},
"Filter": {
"base": " A filter name and value pair that is used to return more specific results from a describe operation. Filters can be used to match a set of resources by specific criteria, such as tags, attributes, or IDs. ",
"refs": {
"FilterList$member": null,

"Filters$member": null
}
},
"FilterLimitExceededException": {
"base": " The request uses too many filters or too many filter values. ",
"refs": {
}
},
"FilterList": {
"base": null,
"refs": {
"ListDistributedGrantsRequest$Filters": " Filters to scope the results. The following filters are supported: <ul> <code>LicenseArn</code>   <code>GrantStatus</code>   <code>GranteePrincipalARN</code>   <code>ProductSKU</code>   <code>LicenseIssuerName</code> ",
"ListLicenseManagerReportGeneratorsRequest$Filters": " Filters to scope the results. The following filters are supported: <ul> <code>LicenseConfigurationArn</code> ",
"ListLicensesRequest$Filters": " Filters to scope the results. The following filters are supported: <ul> <code>Beneficiary</code>   <code>ProductSKU</code>   <code>Fingerprint</code>   <code>Status</code> ",
"ListReceivedGrantsForOrganizationRequest$Filters": " Filters to scope the results. The following filters are supported: <ul> <code>ParentArn</code>   <code>GranteePrincipalArn</code> ",
"ListReceivedGrantsRequest$Filters": " Filters to scope the results. The following filters are supported: <ul> <code>ProductSKU</code>   <code>LicenseIssuerName</code>   <code>LicenseArn</code>   <code>GrantStatus</code>   <code>GranterAccountId</code> ",
"ListReceivedLicensesForOrganizationRequest$Filters": " Filters to scope the results. The following filters are supported: <ul> <code>Beneficiary</code>   <code>ProductSKU</code> ",
"ListReceivedLicensesRequest$Filters": " Filters to scope the results. The following filters are supported: <ul> <code>ProductSKU</code>   <code>Status</code>   <code>Fingerprint</code>   <code>IssuerName</code>   <code>Beneficiary</code> ",
"ListTokensRequest$Filters": " Filters to scope the results. The following filter is supported: <ul> <code>LicenseArns</code> "
}
},
"FilterName": {
"base": null,
"refs": {
"Filter$Name": " Name of the filter. Filter names are case-sensitive. "
}
},
"FilterValue": {
"base": null,
"refs": {

"FilterValues$member": null
}
},
"FilterValues": {
"base": null,
"refs": {
"Filter$Values": " The value of the filter, which is case-sensitive. You can only specify one value for the filter. "
}
},
"Filters": {
"base": null,
"refs": {
"ListLicenseConfigurationsRequest$Filters": " Filters to scope the results. The following filters and logical operators are supported: <ul> <code>licenseCountingType</code> - The dimension for which licenses are counted. Possible values are <code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.   <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license enforcement is used. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.   <code>usagelimitExceeded</code> - A Boolean value that indicates whether the available licenses have been exceeded. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. ",
"ListLicenseConversionTasksRequest$Filters": " Filters to scope the results. Valid filters are <code>ResourceArns</code> and <code>Status</code>. ",
"ListUsageForLicenseConfigurationRequest$Filters": " Filters to scope the results. The following filters and logical operators are supported: <ul> <code>resourceArn</code> - The ARN of the license configuration resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.   <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.   <code>resourceAccount</code> - The ID of the account that owns the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. "
}
},
"GetAccessTokenRequest": {
"base": null,
"refs": {
}
},
"GetAccessTokenResponse": {
"base": null,
"refs": {
}
},
"GetGrantRequest": {
"base": null,
"refs": {

```
    }
  },
  "GetGrantResponse": {
    "base": null,
    "refs": {
    }
  },
  "GetLicenseConfigurationRequest": {
    "base": null,
    "refs": {
    }
  },
  "GetLicenseConfigurationResponse": {
    "base": null,
    "refs": {
    }
  },
  "GetLicenseConversionTaskRequest": {
    "base": null,
    "refs": {
    }
  },
  "GetLicenseConversionTaskResponse": {
    "base": null,
    "refs": {
    }
  },
  "GetLicenseManagerReportGeneratorRequest": {
    "base": null,
    "refs": {
    }
  },
  "GetLicenseManagerReportGeneratorResponse": {
    "base":
null,
    "refs": {
    }
  },
  "GetLicenseRequest": {
    "base": null,
    "refs": {
    }
  },
  "GetLicenseResponse": {
    "base": null,
    "refs": {
    }
  },
```

"GetLicenseUsageRequest": {
"base": null,
"refs": {
}
},
"GetLicenseUsageResponse": {
"base": null,
"refs": {
}
},
"GetServiceSettingsRequest": {
"base": null,
"refs": {
}
},
"GetServiceSettingsResponse": {
"base": null,
"refs": {
}
},
"Grant": {
"base": " Describes a grant. ",
"refs": {
"GetGrantResponse$Grant": " Grant details. ",
"GrantList$member": null
}
},
"GrantList": {
"base": null,
"refs": {
"ListDistributedGrantsResponse$Grants": " Distributed grant details. ",
"ListReceivedGrantsForOrganizationResponse$Grants": " Lists the grants the organization has received. ",
"ListReceivedGrantsResponse$Grants": " Received grant details. "
}
},
"GrantStatus": {
"base": null,
"refs": {
"AcceptGrantResponse$Status": " Grant status. ",
"CreateGrantResponse$Status": " Grant status. ",
"CreateGrantVersionRequest$Status": " Grant status. ",
"CreateGrantVersionResponse$Status": " Grant status. ",
"DeleteGrantResponse$Status": " Grant status. ",
"Grant$GrantStatus": " Grant status. ",
"RejectGrantResponse$Status": " Grant status. "
}

```
  },
  "GrantedLicense": {
    "base": "<p>Describes a license that is granted to a grantee.</p>",
    "refs": {
      "GrantedLicenseList$member": null
    }
  },
  "GrantedLicenseList": {
    "base": null,
    "refs": {
      "ListReceivedLicensesForOrganizationResponse$Licenses": "<p>Lists the licenses the organization has received.</p>",
      "ListReceivedLicensesResponse$Licenses": "<p>Received license details.</p>"
    }
  },
  "ISO8601DateTime": {
    "base": null,
    "refs": {
      "CheckoutBorrowLicenseResponse$IssuedAt": "<p>Date and time at which the license checkout is issued.</p>",
      "CheckoutBorrowLicenseResponse$Expiration": "<p>Date and time at which the license checkout expires.</p>",
      "CheckoutLicenseResponse$IssuedAt": "<p>Date and time at which the license checkout is issued.</p>",
      "CheckoutLicenseResponse$Expiration": "<p>Date and time at which the license checkout expires.</p>",
      "DatetimeRange$Begin": "<p>Start of the time range.</p>",
      "DatetimeRange$End": "<p>End of the time range.</p>",
      "DeleteLicenseResponse$DeletionDate": "<p>Date when the license is deleted.</p>",
      "ExtendLicenseConsumptionResponse$Expiration": "<p>Date and time at which the license consumption expires.</p>",
      "GrantedLicense$CreateTime": "<p>Creation time of the granted license.</p>",
      "License$CreateTime": "<p>License creation time.</p>",
      "TokenData$ExpirationTime": "<p>Token expiration time, in ISO8601-UTC format.</p>"
    }
  },
  "Integer": {
    "base": null,
    "refs": {
      "CreateTokenRequest$ExpirationInDays": "<p>Token expiration, in days, counted from token creation. The default is 365 days.</p>",
      "ReportFrequency$value": "<p>Number of times within the frequency period that a report is generated. The only supported value is <code>1</code>.</p>"
    }
  },
  "InvalidParameterValueException": {
    "base": "<p>One or more parameter values are not valid.</p>",
    "refs": {
```

```
    }
  },
  "InvalidResourceStateException": {
    "base": "<p>License Manager cannot allocate a license to a resource because of its state. </p> <p>For example, you cannot allocate a license to an instance in the process of shutting down.</p>",
    "refs": {
    }
  },
  "InventoryFilter": {
    "base": "<p>An inventory filter.</p>",
    "refs": {

    "InventoryFilterList$member": null
    }
  },
  "InventoryFilterCondition": {
    "base": null,
    "refs": {
      "InventoryFilter$Condition": "<p>Condition of the filter.</p>"
    }
  },
  "InventoryFilterList": {
    "base": null,
    "refs": {
      "ListResourceInventoryRequest$Filters": "<p>Filters to scope the results. The following filters and logical operators are supported:</p> <ul> <li> <p> <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>application_name</code> - The name of the application. Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p> </li> <li> <p> <code>license_included</code> - The type of license included. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. Possible values are <code>sql-server-enterprise</code> | <code>sql-server-standard</code> | <code>sql-server-web</code>
 | <code>windows-server-datacenter</code>.</p> </li> <li> <p> <code>platform</code> - The platform of the resource. Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p> </li> <li> <p> <code>resource_id</code> - The ID of the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>tag:&lt;key&gt;</code> - The key/value combination of a tag assigned to the resource. Logical operators are <code>EQUALS</code> (single account) or <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account).</p> </li> </ul>"
    }
  },
  "Issuer": {
    "base": "<p>Details about the issuer of a license.</p>",
    "refs": {
      "CreateLicenseRequest$Issuer": "<p>License issuer.</p>",
      "CreateLicenseVersionRequest$Issuer": "<p>License issuer.</p>"
    }
  },
  "IssuerDetails": {
```

"base": " Details associated with the issuer of a license. ",
"refs": {
"GrantedLicense$Issuer": " Granted license issuer. ",
"License$Issuer": " License issuer. "
}
},
"License": {
"base": " Software license that is managed in License Manager. ",
"refs": {
"GetLicenseResponse$License": " License details. ",
"LicenseList$member": null
}
},
"LicenseConfiguration": {
"base": " A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM must be associated with a host), and the number of licenses purchased and used. ",
"refs": {
"LicenseConfigurations$member": null
}
},
"LicenseConfigurationAssociation": {
"base": " Describes an association with a license configuration. ",
"refs": {
"LicenseConfigurationAssociations$member": null
}
},
"LicenseConfigurationAssociations": {
"base": null,
"refs": {
"ListAssociationsForLicenseConfigurationResponse$LicenseConfigurationAssociations": " Information about the associations for the license configuration. "
}
},
"LicenseConfigurationStatus": {
"base": null,
"refs": {
"UpdateLicenseConfigurationRequest$LicenseConfigurationStatus": " New status of the license configuration. "
}
},
"LicenseConfigurationUsage": {
"base": " Details about the usage of a resource associated with a license configuration. ",
"refs": {
"LicenseConfigurationUsageList$member": null
}

},
"LicenseConfigurationUsageList": {
"base": null,
"refs": {
"ListUsageForLicenseConfigurationResponse$LicenseConfigurationUsageList": " Information about the license configurations. "
}

},
"LicenseConfigurations": {
"base": null,
"refs": {
"ListLicenseConfigurationsResponse$LicenseConfigurations": " Information about the license configurations. "
}
},
"LicenseConversionContext": {
"base": " Information about a license type conversion task. ",
"refs": {
"CreateLicenseConversionTaskForResourceRequest$SourceLicenseContext": " Information that identifies the license type you are converting from. For the structure of the source license, see Convert a license type using the CLI in the License Manager User Guide. ",
"CreateLicenseConversionTaskForResourceRequest$DestinationLicenseContext": " Information that identifies the license type you are converting to. For the structure of the destination license, see Convert
a license type using the CLI in the License Manager User Guide. ",
"GetLicenseConversionTaskResponse$SourceLicenseContext": " Information about the license type converted from. ",
"GetLicenseConversionTaskResponse$DestinationLicenseContext": " Information about the license type converted to. ",
"LicenseConversionTask$SourceLicenseContext": " Information about the license type this conversion task converted from. ",
"LicenseConversionTask$DestinationLicenseContext": " Information about the license type this conversion task converted to. "
}
},
"LicenseConversionTask": {
"base": " Information about a license type conversion task. ",
"refs": {
"LicenseConversionTasks$member": null
}
},
"LicenseConversionTaskId": {
"base": null,
"refs": {
"CreateLicenseConversionTaskForResourceResponse$LicenseConversionTaskId":

" The ID of the created license type conversion task. ",
"GetLicenseConversionTaskRequest$LicenseConversionTaskId": " ID of the license type conversion task to retrieve information on. ",
"GetLicenseConversionTaskResponse$LicenseConversionTaskId": " ID of the license type conversion task. ",
"LicenseConversionTask$LicenseConversionTaskId": " The ID of the license type conversion task. "
}
},
"LicenseConversionTaskStatus": {
"base": null,
"refs": {
"GetLicenseConversionTaskResponse$Status": " Status of the license type conversion task. ",
"LicenseConversionTask$Status": " The status of the conversion task. "
}
},
"LicenseConversionTasks": {
"base": null,
"refs": {
"ListLicenseConversionTasksResponse$LicenseConversionTasks": " Information about the license configuration tasks for your account. "
}
},
"LicenseCountingType":
{
"base": null,
"refs": {
"CreateLicenseConfigurationRequest$LicenseCountingType": " Dimension used to track the license inventory. ",
"GetLicenseConfigurationResponse$LicenseCountingType": " Dimension for which the licenses are counted. ",
"LicenseConfiguration$LicenseCountingType": " Dimension to use to track the license inventory. "
}
},
"LicenseDeletionStatus": {
"base": null,
"refs": {
"DeleteLicenseResponse$Status": " License status. "
}
},
"LicenseList": {
"base": null,
"refs": {
"ListLicenseVersionsResponse$Licenses": " License details. ",
"ListLicensesResponse$Licenses": " License details. "
}
},
"LicenseOperationFailure": {
"base": " Describes the failure of a license operation. ",

"refs": {
"LicenseOperationFailureList$member": null
}
},
"LicenseOperationFailureList": {
"base":
null,
"refs": {
"ListFailuresForLicenseConfigurationOperationsResponse$LicenseOperationFailureList": " License configuration operations that failed. "
}
},
"LicenseSpecification": {
"base": " Details for associating a license configuration with a resource. ",
"refs": {
"LicenseSpecifications$member": null
}
},
"LicenseSpecifications": {
"base": null,
"refs": {
"ListLicenseSpecificationsForResourceResponse$LicenseSpecifications": " License configurations associated with a resource. ",
"UpdateLicenseSpecificationsForResourceRequest$AddLicenseSpecifications": " ARNs of the license configurations to add. ",
"UpdateLicenseSpecificationsForResourceRequest$RemoveLicenseSpecifications": " ARNs of the license configurations to remove. "
}
},
"LicenseStatus": {
"base": null,
"refs": {
"CreateLicenseResponse$Status": " License status. ",
"CreateLicenseVersionRequest$Status": " License status. ",
"CreateLicenseVersionResponse$Status": " License status. ",
"GrantedLicense$Status": " Granted license status. ",
"License$Status": " License status. "
}
},
"LicenseUsage": {
"base": " Describes the entitlement usage associated with a license. ",
"refs": {
"GetLicenseUsageResponse$LicenseUsage": " License usage details. "
}
},
"LicenseUsageException": {
"base": " You do not have enough licenses available to support a new resource launch. ",
"refs": {

```
    }
  },
  "ListAssociationsForLicenseConfigurationRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListAssociationsForLicenseConfigurationResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListDistributedGrantsRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListDistributedGrantsResponse":
{
    "base": null,
    "refs": {
    }
  },
  "ListFailuresForLicenseConfigurationOperationsRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListFailuresForLicenseConfigurationOperationsResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListLicenseConfigurationsRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListLicenseConfigurationsResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListLicenseConversionTasksRequest": {
    "base": null,
    "refs": {
    }
  },
```

"ListLicenseConversionTasksResponse": {
"base": null,
"refs": {
}
},
"ListLicenseManagerReportGeneratorsRequest": {
"base": null,
"refs": {
}
},
"ListLicenseManagerReportGeneratorsResponse": {
"base": null,
"refs": {
}
},
"ListLicenseSpecificationsForResourceRequest": {
"base": null,
"refs": {
}
},
"ListLicenseSpecificationsForResourceResponse":
{
"base": null,
"refs": {
}
},
"ListLicenseVersionsRequest": {
"base": null,
"refs": {
}
},
"ListLicenseVersionsResponse": {
"base": null,
"refs": {
}
},
"ListLicensesRequest": {
"base": null,
"refs": {
}
},
"ListLicensesResponse": {
"base": null,
"refs": {
}
},
"ListReceivedGrantsForOrganizationRequest": {
"base": null,

"refs": {
}
},
"ListReceivedGrantsForOrganizationResponse": {
"base": null,
"refs": {
}
},
"ListReceivedGrantsRequest": {
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"refs": {
}
},
"ListReceivedGrantsResponse": {
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"refs": {
}
},
"ListReceivedLicensesForOrganizationRequest": {
"base": null,
"refs": {
}
},
"ListReceivedLicensesForOrganizationResponse": {
"base": null,
"refs": {
}
},
"ListReceivedLicensesRequest":
{
"base": null,
"refs": {
}
},
"ListReceivedLicensesResponse": {
"base": null,
"refs": {
}
},
"ListResourceInventoryRequest": {
"base": null,
"refs": {
}
},
"ListResourceInventoryResponse": {
"base": null,
"refs": {
}

```
  },
  "ListTagsForResourceRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListTagsForResourceResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListTokensRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListTokensResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListUsageForLicenseConfigurationRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListUsageForLicenseConfigurationResponse": {
    "base": null,
    "refs": {
    }
  },
  "Location": {
    "base": null,
    "refs": {
      "RedirectException$Location": null
    }
  },
  "Long":
{
    "base": null,
    "refs": {
      "Entitlement$MaxCount": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
    }
  },
  "ManagedResourceSummary": {
    "base": "<p>Summary information about a managed resource.</p>",
    "refs": {
      "ManagedResourceSummaryList$member": null
```

```
    }
  },
  "ManagedResourceSummaryList": {
    "base": null,
    "refs": {
      "GetLicenseConfigurationResponse$ManagedResourceSummaryList": "<p>Summaries of the managed
resources.</p>",
      "LicenseConfiguration$ManagedResourceSummaryList": "<p>Summaries for managed resources.</p>"
    }
  },
  "MaxSize100": {
    "base": null,
    "refs": {
      "ListDistributedGrantsRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",
      "ListLicenseManagerReportGeneratorsRequest$MaxResults": "<p>Maximum number of results to return in a
single call.</p>",
      "ListLicenseVersionsRequest$MaxResults": "<p>Maximum
 number of results to return in a single call.</p>",
      "ListLicensesRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",
      "ListReceivedGrantsForOrganizationRequest$MaxResults": "<p>Maximum number of results to return in a
single call.</p>",
      "ListReceivedGrantsRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",
      "ListReceivedLicensesForOrganizationRequest$MaxResults": "<p>Maximum number of results to return in a
single call.</p>",
      "ListReceivedLicensesRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",
      "ListTokensRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>"
    }
  },
  "MaxSize3StringList": {
    "base": null,
    "refs": {
      "CreateTokenRequest$TokenProperties": "<p>Data specified by the caller to be included in the JWT token. The
data is mapped to the amr claim of the JWT token.</p>",

   "GetAccessTokenRequest$TokenProperties": "<p>Token properties to validate against those present in the JWT
token.</p>",
      "TokenData$TokenProperties": "<p>Data specified by the caller.</p>"
    }
  },
  "Message": {
    "base": null,
    "refs": {
      "AccessDeniedException$Message": null,
      "AuthorizationException$Message": null,
      "ConflictException$Message": null,
      "EntitlementNotAllowedException$Message": null,
      "FailedDependencyException$Message": null,
      "FilterLimitExceededException$Message": null,
```

"InvalidParameterValueException$Message": null,
"InvalidResourceStateException$Message": null,
"LicenseUsageException$Message": null,
"NoEntitlementsAllowedException$Message": null,
"RateLimitExceededException$Message": null,
"RedirectException$Message": null,
"ResourceLimitExceededException$Message": null,
"ResourceNotFoundException$Message": null,
"ServerInternalException$Message":
null,
"UnsupportedDigitalSignatureMethodException$Message": null,
"ValidationException$Message": null
}
},
"Metadata": {
"base": " Describes key/value pairs. ",
"refs": {
"MetadataList$member": null
}
},
"MetadataList": {
"base": null,
"refs": {
"CheckoutBorrowLicenseRequest$CheckoutMetadata": " Information about constraints. ",
"CheckoutBorrowLicenseResponse$CheckoutMetadata": " Information about constraints. ",
"CreateLicenseRequest$LicenseMetadata": " Information about the license. ",
"CreateLicenseVersionRequest$LicenseMetadata": " Information about the license. ",
"GrantedLicense$LicenseMetadata": " Granted license metadata. ",
"License$LicenseMetadata": " License metadata. ",
"LicenseOperationFailure$MetadataList": " Reserved. "
}
},
"NoEntitlementsAllowedException": {

"base": " There are no entitlements found for this license, or the entitlement maximum count is reached. ",
"refs": {
}
},
"Options": {
"base": " The options you can specify when you create a new version of a grant, such as activation override behavior. For more information, see Granted licenses in License Manager in the License Manager User Guide. ",
"refs": {
"CreateGrantVersionRequest$Options": " The options specified for the grant. ",
"Grant$Options": " The options specified for the grant. "
}
},

"OrganizationConfiguration": {
"base": " Configuration information for Organizations. ",
"refs": {
"GetServiceSettingsResponse$OrganizationConfiguration": " Indicates whether Organizations is integrated with License Manager for cross-account discovery. ",
"UpdateServiceSettingsRequest$OrganizationConfiguration": " Enables integration with Organizations for cross-account discovery. "
}
},
"PrincipalArnList": {
"base": null,
"refs": {
"CreateGrantRequest$Principals": " The grant principals. You can specify one of the following as an Amazon Resource Name (ARN): <ul> An Amazon Web Services account, which includes only the account specified.   An organizational unit (OU), which includes all accounts in the OU.   An organization, which will include all accounts across your organization. "
}
},
"ProductInformation": {
"base": " Describes product information for a license configuration. ",
"refs": {
"ProductInformationList$member": null
}
},
"ProductInformationFilter": {
"base": " Describes product information filters. ",
"refs": {
"ProductInformationFilterList$member": null
}
},
"ProductInformationFilterList": {
"base": null,
"refs": {
"ProductInformation$ProductInformationFilterList": " A Product information filter consists of a <code>ProductInformationFilterComparator</code> which is a logical operator, a <code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. Accepted values for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. The following filters and are supported when the resource type is <code>SSM_MANAGED</code>: <ul> <code>Application Name</code> - The name of the application. Logical operator is <code>EQUALS</code>.   <code>Application Publisher</code> - The publisher of the application. Logical operator is <code>EQUALS</code>.   <code>Application Version</code> - The version of the application. Logical operator is <code>EQUALS</code>.   <code>Platform Name</code> - The name of the platform. Logical operator is <code>EQUALS</code>.   <code>Platform Type</code> - The platform type. Logical operator is <code>EQUALS</code>.   <code>Tag:key</code> - The key of a tag

attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.   <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>.   <code>License Included</code> - The type of license included. Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>. Possible values are: <code>sql-server-enterprise</code> | <code>sql-server-standard</code> | <code>sql-server-web</code> | <code>windows-server-datacenter</code>.   The following filters and logical operators are supported when the resource type is <code>RDS</code>: <ul> <code>Engine Edition</code> - The edition of the database engine. Logical operator is <code>EQUALS</code>. Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>.   <code>License Pack</code> - The license pack. Logical operator is <code>EQUALS</code>. Possible values are: <code>data guard</code> | <code>diagnostic pack sqlt</code> | <code>tuning pack sqlt</code> | <code>ols</code> | <code>olap</code>. "
    }
  },
  "ProductInformationList": {
    "base": null,
    "refs": {
      "CreateLicenseConfigurationRequest$ProductInformationList":
" Product information. ",
      "GetLicenseConfigurationResponse$ProductInformationList": " Product information. ",
      "LicenseConfiguration$ProductInformationList": " Product information. ",
      "UpdateLicenseConfigurationRequest$ProductInformationList": " New product information. "
    }
  },
  "ProvisionalConfiguration": {
    "base": " Details about a provisional configuration. ",
    "refs": {
      "ConsumptionConfiguration$ProvisionalConfiguration": " Details about a provisional configuration. "
    }
  },
  "RateLimitExceededException": {
    "base": " Too many requests have been submitted. Try again after a brief wait. ",
    "refs": {
    }
  },
  "ReceivedMetadata": {
    "base": " Metadata associated with received licenses and grants. ",
    "refs": {
      "GrantedLicense$ReceivedMetadata": " Granted license received metadata. "
    }
  },
  "ReceivedStatus": {
    "base": null,
    "refs": {
      "ReceivedMetadata$ReceivedStatus": " Received status. "

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    }
  },
  "RedirectException": {
    "base": "<p>This is not the correct Region for the resource. Try again.</p>",
    "refs": {
    }
  },
  "RejectGrantRequest": {
    "base": null,
    "refs": {
    }
  },
  "RejectGrantResponse": {
    "base": null,
    "refs": {
    }
  },
  "RenewType": {
    "base": null,
    "refs": {
      "ConsumptionConfiguration$RenewType": "<p>Renewal frequency.</p>"
    }
  },
  "ReportContext": {
    "base": "<p>Details of the license configuration that this generator reports on.</p>",
    "refs": {
      "CreateLicenseManagerReportGeneratorRequest$ReportContext": "<p>Defines the type of license
configuration the report generator tracks.</p>",
      "ReportGenerator$ReportContext": "<p>License configuration type for this generator.</p>",
      "UpdateLicenseManagerReportGeneratorRequest$ReportContext":
 "<p>The report context.</p>"
    }
  },
  "ReportFrequency": {
    "base": "<p>Details about how frequently reports are generated.</p>",
    "refs": {
      "CreateLicenseManagerReportGeneratorRequest$ReportFrequency": "<p>Frequency by which reports are
generated. Reports can be generated daily, monthly, or weekly.</p>",
      "ReportGenerator$ReportFrequency": "<p>Details about how frequently reports are generated.</p>",
      "UpdateLicenseManagerReportGeneratorRequest$ReportFrequency": "<p>Frequency by which reports are
generated.</p>"
    }
  },
  "ReportFrequencyType": {
    "base": null,
    "refs": {
      "ReportFrequency$period": "<p>Time period between each report. The period can be daily, weekly, or
monthly.</p>"
```

```
    }
  },
  "ReportGenerator": {
    "base": "<p>Describe the details of a report generator.</p>",
    "refs": {
      "GetLicenseManagerReportGeneratorResponse$ReportGenerator":
 "<p>A report generator that creates periodic reports about your license configurations.</p>",
      "ReportGeneratorList$member": null
    }
  },
  "ReportGeneratorList": {
    "base": null,
    "refs": {
      "ListLicenseManagerReportGeneratorsResponse$ReportGenerators": "<p>A report generator that creates
periodic reports about your license configurations.</p>"
    }
  },
  "ReportGeneratorName": {
    "base": null,
    "refs": {
      "CreateLicenseManagerReportGeneratorRequest$ReportGeneratorName": "<p>Name of the report
generator.</p>",
      "UpdateLicenseManagerReportGeneratorRequest$ReportGeneratorName": "<p>Name of the report
generator.</p>"
    }
  },
  "ReportType": {
    "base": null,
    "refs": {
      "ReportTypeList$member": null
    }
  },
  "ReportTypeList": {
    "base": null,
    "refs": {
      "CreateLicenseManagerReportGeneratorRequest$Type": "<p>Type of reports to generate. The following report
types an
 be generated:</p> <ul> <li> <p>License configuration report - Reports the number and details of consumed
licenses for a license configuration.</p> </li> <li> <p>Resource report - Reports the tracked licenses and resource
consumption for a license configuration.</p> </li> </ul>",
      "ReportGenerator$ReportType": "<p>Type of reports that are generated.</p>",
      "UpdateLicenseManagerReportGeneratorRequest$Type": "<p>Type of reports to generate. The following
report types are supported:</p> <ul> <li> <p>License configuration report - Reports the number and details of
consumed licenses for a license configuration.</p> </li> <li> <p>Resource report - Reports the tracked licenses and
resource consumption for a license configuration.</p> </li> </ul>"
    }
  },
  "ResourceInventory": {
```

"base": " Details about a resource. ",
"refs": {
"ResourceInventoryList$member": null
}
},
"ResourceInventoryList": {
"base": null,
"refs": {
"ListResourceInventoryResponse$ResourceInventoryList": " Information about the resources. "
}
},
"ResourceLimitExceededException": {
"base": " Your resource limits have been exceeded. ",
"refs": {
}
},
"ResourceNotFoundException": {
"base": " The resource cannot be found. ",
"refs": {
}
},
"ResourceType": {
"base": null,
"refs": {
"ConsumedLicenseSummary$ResourceType": " Resource type of the resource consuming a license. ",
"LicenseConfigurationAssociation$ResourceType": " Type of server resource. ",
"LicenseConfigurationUsage$ResourceType": " Type of resource. ",
"LicenseOperationFailure$ResourceType": " Resource type. ",
"ManagedResourceSummary$ResourceType": " Type of resource associated with a license. ",
"ResourceInventory$ResourceType": " Type of resource. "
}
},
"S3Location": {
"base":
" Details of the S3 bucket that report generator reports are published to. ",
"refs": {
"ReportGenerator$S3Location": " Details of the S3 bucket that report generator reports are published
to. "
}
},
"ServerInternalException": {
"base": " The server experienced an internal error. Try again. ",
"refs": {
}
},
"SignedToken": {
"base": null,
"refs": {

"CheckoutBorrowLicenseResponse$SignedToken": " Signed token. ",
"CheckoutLicenseResponse$SignedToken": " Signed token. "
}
},
"StatusReasonMessage": {
"base": null,
"refs": {
"CreateGrantVersionRequest$StatusReason": " Grant status reason. ",
"DeleteGrantRequest$StatusReason": " The Status reason for the delete request. ",
"Grant$StatusReason": " Grant status reason. ",
"ReceivedMetadata$ReceivedStatusReason": " Received status reason. "
}
},

"String": {
"base": null,
"refs": {
"AcceptGrantResponse$Version": " Grant version. ",
"CheckInLicenseRequest$LicenseConsumptionToken": " License consumption token. ",
"CheckInLicenseRequest$Beneficiary": " License beneficiary. ",
"CheckoutBorrowLicenseRequest$NodeId": " Node ID. ",
"CheckoutBorrowLicenseResponse$LicenseConsumptionToken": " License consumption token. ",
"CheckoutBorrowLicenseResponse$NodeId": " Node ID. ",
"CheckoutLicenseRequest$ProductSKU": " Product SKU. ",
"CheckoutLicenseRequest$KeyFingerprint": " Key fingerprint identifying the license. ",
"CheckoutLicenseRequest$Beneficiary": " License beneficiary. ",
"CheckoutLicenseRequest$NodeId": " Node ID. ",
"CheckoutLicenseResponse$LicenseConsumptionToken": " License consumption token. ",
"CheckoutLicenseResponse$NodeId": " Node ID. ",
"CheckoutLicenseResponse$LicenseArn":
" Amazon Resource Name (ARN) of the checkout license. ",
"CreateGrantRequest$GrantName": " Grant name. ",
"CreateGrantRequest$HomeRegion": " Home Region of the grant. ",
"CreateGrantResponse$Version": " Grant version. ",
"CreateGrantVersionRequest$GrantName": " Grant name. ",
"CreateGrantVersionRequest$SourceVersion": " Current version of the grant. ",
"CreateGrantVersionResponse$Version": " New version of the grant. ",
"CreateLicenseConfigurationRequest$Name": " Name of the license configuration. ",
"CreateLicenseConfigurationRequest$Description": " Description of the license configuration. ",
"CreateLicenseConfigurationResponse$LicenseConfigurationArn": " Amazon Resource Name (ARN) of the license configuration. ",
"CreateLicenseManagerReportGeneratorRequest$Description": " Description of the report generator. ",
"CreateLicenseManagerReportGeneratorResponse$LicenseManagerReportGeneratorArn":
" The Amazon Resource Name (ARN) of the new report generator. ",
"CreateLicenseRequest$LicenseName": " License name. ",
"CreateLicenseRequest$ProductName": " Product name. ",
"CreateLicenseRequest$ProductSKU": " Product SKU. ",
"CreateLicenseRequest$HomeRegion": " Home Region for the license. ",

"CreateLicenseRequest$Beneficiary": " License beneficiary. ",
"CreateLicenseResponse$Version": " License version. ",
"CreateLicenseVersionRequest$LicenseName": " License name. ",
"CreateLicenseVersionRequest$ProductName": " Product name. ",
"CreateLicenseVersionRequest$HomeRegion": " Home Region of the license. ",
"CreateLicenseVersionRequest$SourceVersion": " Current version of the license. ",
"CreateLicenseVersionResponse$Version": " New version of the license. ",
"CreateTokenResponse$TokenId":
" Token ID. ",
"DeleteGrantRequest$Version": " Current version of the grant. ",
"DeleteGrantResponse$Version": " Grant version. ",
"DeleteLicenseConfigurationRequest$LicenseConfigurationArn": " ID of the license configuration. ",
"DeleteLicenseManagerReportGeneratorRequest$LicenseManagerReportGeneratorArn": " Amazon Resource Name (ARN) of the report generator to be deleted. ",
"DeleteLicenseRequest$SourceVersion": " Current version of the license. ",
"DeleteTokenRequest$TokenId": " Token ID. ",
"Entitlement$Name": " Entitlement name. ",
"Entitlement$Value": " Entitlement resource. Use only if the unit is None. ",
"EntitlementData$Name": " Entitlement data name. ",
"EntitlementData$Value": " Entitlement data value. ",
"EntitlementUsage$Name": " Entitlement usage name. ",
"EntitlementUsage$ConsumedValue":
" Resource usage consumed. ",
"EntitlementUsage$MaxCount": " Maximum entitlement usage count. ",
"ExtendLicenseConsumptionRequest$LicenseConsumptionToken": " License consumption token. ",
"ExtendLicenseConsumptionResponse$LicenseConsumptionToken": " License consumption token. ",
"FailedDependencyException$ErrorCode": null,
"GetGrantRequest$Version": " Grant version. ",
"GetLicenseConfigurationRequest$LicenseConfigurationArn": " Amazon Resource Name (ARN) of the license configuration. ",
"GetLicenseConfigurationResponse$LicenseConfigurationId": " Unique ID for the license configuration. ",
"GetLicenseConfigurationResponse$LicenseConfigurationArn": " Amazon Resource Name (ARN) of the license configuration. ",
"GetLicenseConfigurationResponse$Name": " Name of the license configuration. ",
"GetLicenseConfigurationResponse$Description": " Description of the license configuration. ",
"GetLicenseConfigurationResponse$Status": " License configuration status. ",
"GetLicenseConfigurationResponse$OwnerAccountId": " Account ID of the owner of the license configuration. ",
"GetLicenseConversionTaskResponse$ResourceArn": " Amazon Resource Names (ARN) of the resources the license conversion task is associated with. ",
"GetLicenseConversionTaskResponse$StatusMessage": " The status message for the conversion task. ",
"GetLicenseManagerReportGeneratorRequest$LicenseManagerReportGeneratorArn": " Amazon Resource Name (ARN) of the report generator. ",
"GetLicenseRequest$Version": " License version. ",
"GetServiceSettingsResponse$S3BucketArn": " Regional S3 bucket path for storing reports, license trail event data, discovery data, and so on. ",

"GetServiceSettingsResponse$SnsTopicArn": " SNS topic configured to receive notifications from License Manager. ",
"GetServiceSettingsResponse$LicenseManagerResourceShareArn": " Amazon Resource Name (ARN) of the resource share. The License Manager management account provides member accounts with access to this share. ",
"Grant$GrantName": " Grant name. ",
"Grant$HomeRegion": " Home Region of the grant. ",
"Grant$Version": " Grant version. ",
"GrantedLicense$LicenseName": " License name. ",
"GrantedLicense$ProductName": " Product name. ",
"GrantedLicense$ProductSKU": " Product SKU. ",
"GrantedLicense$HomeRegion": " Home Region of the granted license. ",
"GrantedLicense$Beneficiary": " Granted license beneficiary. ",
"GrantedLicense$Version": " Version of the granted license. ",
"InventoryFilter$Name": " Name of the filter. ",
"InventoryFilter$Value": " Value of the filter. ",
"Issuer$Name": " Issuer name. ",
"Issuer$SignKey":
" Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, and support the RSASSA-PSS SHA-256 signing algorithm. ",
"IssuerDetails$Name": " Issuer name. ",
"IssuerDetails$SignKey": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, and support the RSASSA-PSS SHA-256 signing algorithm. ",
"IssuerDetails$KeyFingerprint": " Issuer key fingerprint. ",
"License$LicenseName": " License name. ",
"License$ProductName": " Product name. ",
"License$ProductSKU": " Product SKU. ",
"License$HomeRegion": " Home Region of the license. ",
"License$Beneficiary": " License beneficiary. ",
"License$Version": " License version. ",
"LicenseConfiguration$LicenseConfigurationId": " Unique ID of the license configuration. ",
"LicenseConfiguration$LicenseConfigurationArn":
" Amazon Resource Name (ARN) of the license configuration. ",
"LicenseConfiguration$Name": " Name of the license configuration. ",
"LicenseConfiguration$Description": " Description of the license configuration. ",
"LicenseConfiguration$Status": " Status of the license configuration. ",
"LicenseConfiguration$OwnerAccountId": " Account ID of the license configuration's owner. ",
"LicenseConfigurationAssociation$ResourceArn": " Amazon Resource Name (ARN) of the resource. ",
"LicenseConfigurationAssociation$ResourceOwnerId": " ID of the Amazon Web Services account that owns the resource consuming licenses. ",
"LicenseConfigurationAssociation$AmiAssociationScope": " Scope of AMI associations. The possible value is <code>cross-account</code>. ",
"LicenseConfigurationUsage$ResourceArn": " Amazon Resource Name (ARN) of the resource. ",
"LicenseConfigurationUsage$ResourceStatus":
" Status of the resource. ",
"LicenseConfigurationUsage$ResourceOwnerId": " ID of the account that owns the resource. ",
"LicenseConversionTask$ResourceArn": " The Amazon Resource Name (ARN) of the resource associated with the license type conversion task. ",

"LicenseConversionTask$StatusMessage": " The status message for the conversion task. ",
"LicenseOperationFailure$ResourceArn": " Amazon Resource Name (ARN) of the resource. ",
"LicenseOperationFailure$ErrorMessage": " Error message. ",
"LicenseOperationFailure$OperationName": " Name of the operation. ",
"LicenseOperationFailure$ResourceOwnerId": " ID of the Amazon Web Services account that owns the resource. ",
"LicenseOperationFailure$OperationRequestedBy": " The requester is \"License Manager Automated Discovery\". ",
"LicenseSpecification$LicenseConfigurationArn": " Amazon Resource Name (ARN) of the license configuration. ",
"LicenseSpecification$AmiAssociationScope": " Scope of AMI associations. The possible value is <code>cross-account</code>. ",
"ListAssociationsForLicenseConfigurationRequest$LicenseConfigurationArn": " Amazon Resource Name (ARN) of a license configuration. ",
"ListAssociationsForLicenseConfigurationRequest$NextToken": " Token for the next set of results. ",
"ListAssociationsForLicenseConfigurationResponse$NextToken": " Token for the next set of results. ",
"ListDistributedGrantsRequest$NextToken": " Token for the next set of results. ",
"ListDistributedGrantsResponse$NextToken": " Token for the next set of results. ",
"ListFailuresForLicenseConfigurationOperationsRequest$LicenseConfigurationArn": " Amazon Resource Name of the license configuration. ",
"ListFailuresForLicenseConfigurationOperationsRequest$NextToken": " Token for the next set of results. ",

"ListFailuresForLicenseConfigurationOperationsResponse$NextToken": " Token for the next set of results. ",
"ListLicenseConfigurationsRequest$NextToken": " Token for the next set of results. ",
"ListLicenseConfigurationsResponse$NextToken": " Token for the next set of results. ",
"ListLicenseConversionTasksRequest$NextToken": " Token for the next set of results. ",
"ListLicenseConversionTasksResponse$NextToken": " Token for the next set of results. ",
"ListLicenseManagerReportGeneratorsRequest$NextToken": " Token for the next set of results. ",
"ListLicenseManagerReportGeneratorsResponse$NextToken": " Token for the next set of results. ",
"ListLicenseSpecificationsForResourceRequest$ResourceArn": " Amazon Resource Name (ARN) of a resource that has an associated license configuration. ",
"ListLicenseSpecificationsForResourceRequest$NextToken": " Token for the next set of results. ",
"ListLicenseSpecificationsForResourceResponse$NextToken": " Token for the next set of results. ",
"ListLicenseVersionsRequest$NextToken": " Token for the next set of results. ",
"ListLicenseVersionsResponse$NextToken": " Token for the next set of results. ",
"ListLicensesRequest$NextToken": " Token for the next set of results. ",
"ListLicensesResponse$NextToken": " Token for the next set of results. ",
"ListReceivedGrantsForOrganizationRequest$NextToken": " Token for the next set of results. ",
"ListReceivedGrantsForOrganizationResponse$NextToken": " Token for the next set of results. ",
"ListReceivedGrantsRequest$NextToken": " Token for the next set of results. ",
"ListReceivedGrantsResponse$NextToken": " Token for the next set of results. ",
"ListReceivedLicensesForOrganizationRequest$NextToken": " Token for the next set of results. ",
"ListReceivedLicensesForOrganizationResponse$NextToken": " Token for the next set of results. ",
"ListReceivedLicensesRequest$NextToken": " Token for the next set of results. ",
"ListReceivedLicensesResponse$NextToken": " Token for the next set of results. ",

"ListResourceInventoryRequest$NextToken": " Token for the next set of results. ",
"ListResourceInventoryResponse$NextToken": " Token for the next set of results. ",
"ListTagsForResourceRequest$ResourceArn": " Amazon Resource Name (ARN) of the license configuration. ",
"ListTokensRequest$NextToken": " Token for the next set of results. ",
"ListTokensResponse$NextToken": " Token for the next set of results. ",
"ListUsageForLicenseConfigurationRequest$LicenseConfigurationArn": " Amazon Resource Name (ARN) of the license configuration. ",
"ListUsageForLicenseConfigurationRequest$NextToken": " Token for the next set of results. ",
"ListUsageForLicenseConfigurationResponse$NextToken": " Token for the next set of results. ",
"MaxSize3StringList$member": null,
"Metadata$Name": " The key name. ",
"Metadata$Value": " The value. ",
"ProductInformation$ResourceType": " Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"ProductInformationFilter$ProductInformationFilterName": " Filter name. ",
"ProductInformationFilter$ProductInformationFilterComparator": " Logical operator. ",
"RejectGrantResponse$Version": " Grant version. ",
"ReportGenerator$ReportGeneratorName": " Name of the report generator. ",
"ReportGenerator$LicenseManagerReportGeneratorArn": " Amazon Resource Name (ARN) of the report generator. ",
"ReportGenerator$LastRunStatus": " Status of the last report generation attempt. ",
"ReportGenerator$LastRunFailureReason": " Failure message for the last report generation attempt. ",
"ReportGenerator$LastReportGenerationTime": " Time the last report was generated at. ",
"ReportGenerator$ReportCreatorAccount": " The Amazon Web Services account ID used to create the report generator. ",
"ReportGenerator$Description": " Description of the report generator. ",
"ReportGenerator$CreateTime": " Time the report was created. ",
"ResourceInventory$ResourceId": " ID of the resource. ",
"ResourceInventory$ResourceArn": " Amazon Resource Name (ARN) of the resource. ",
"ResourceInventory$Platform": " Platform of the resource. ",
"ResourceInventory$PlatformVersion": " Platform version of the resource in the inventory. ",
"ResourceInventory$ResourceOwningAccountId": " ID of the account that owns the resource. ",
"S3Location$bucket": " Name of the S3 bucket reports are published to. ",

"S3Location$keyPrefix": " Prefix of the S3 bucket reports are published to. ",
"StringList$member": null,
"Tag$Key": " Tag key. ",
"Tag$Value": " Tag value. ",
"TagKeyList$member": null,
"TagResourceRequest$ResourceArn": " Amazon Resource Name (ARN) of the license configuration. ",
"TokenData$TokenId": " Token ID. ",
"TokenData$TokenType": " Type of token generated. The supported value is <code>REFRESH_TOKEN</code>. ",
"TokenData$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"TokenData$Status": " Token status. The possible values are <code>AVAILABLE</code> and <code>DELETED</code>. ",

"UntagResourceRequest$ResourceArn": " Amazon Resource Name (ARN) of the license configuration. ",
"UpdateLicenseConfigurationRequest$LicenseConfigurationArn": " Amazon Resource Name (ARN) of the license configuration. ",
"UpdateLicenseConfigurationRequest$Name": " New name of the license configuration. ",
"UpdateLicenseConfigurationRequest$Description": " New description of the license configuration. ",
"UpdateLicenseManagerReportGeneratorRequest$LicenseManagerReportGeneratorArn": " Amazon Resource Name (ARN) of the report generator to update. ",
"UpdateLicenseManagerReportGeneratorRequest$Description": " Description of the report generator. ",
"UpdateLicenseSpecificationsForResourceRequest$ResourceArn": " Amazon Resource Name (ARN) of the Amazon Web Services resource. ",
"UpdateServiceSettingsRequest$S3BucketArn": " Amazon Resource Name (ARN) of the Amazon S3 bucket where the License Manager information is stored. ",
"UpdateServiceSettingsRequest$SnsTopicArn": " Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts. "
}
},
"StringList": {
"base": null,
"refs": {
"CreateLicenseConfigurationRequest$LicenseRules": " License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules vary by dimension, as follows.   <code>Cores</code> dimension: <code>allowedTenancy</code> | <code>licenseAffinityToHost</code> | <code>maximumCores</code> | <code>minimumCores</code>   <code>Instances</code> dimension: <code>allowedTenancy</code> | <code>maximumCores</code> | <code>minimumCores</code> | <code>maximumSockets</code> | <code>minimumSockets</code> | <code>maximumVcpus</code> | <code>minimumVcpus</code>   <code>Sockets</code> dimension: <code>allowedTenancy</code> | <code>licenseAffinityToHost</code> | <code>maximumSockets</code> | <code>minimumSockets</code>   <code>vCPUs</code> dimension: <code>allowedTenancy</code> | <code>honorVcpuOptimization</code> | <code>maximumVcpus</code> | <code>minimumVcpus</code>   The unit for <code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are <code>True</code> and <code>False</code>. ",
"GetLicenseConfigurationResponse$LicenseRules": " License rules. ",
"LicenseConfiguration$LicenseRules": " License rules. ",
"ListLicenseConfigurationsRequest$LicenseConfigurationArns": " Amazon Resource Names (ARN) of the license configurations. ",
"ListTokensRequest$TokenIds": " Token IDs. ",
"ProductInformationFilter$ProductInformationFilterValue": " Filter value. ",
"UpdateLicenseConfigurationRequest$LicenseRules": " New license rule. The only rule that you can add after you create a license configuration is licenseAffinityToHost. "
}
},
"Tag": {
"base": " Details about a tag

for a license configuration. ",
    "refs": {
      "TagList$member": null
    }
  },
  "TagKeyList": {
    "base": null,
    "refs": {
      "UntagResourceRequest$TagKeys": " Keys identifying the tags to remove. "
    }
  },
  "TagList": {
    "base": null,
    "refs": {
      "CreateLicenseConfigurationRequest$Tags": " Tags to add to the license configuration. ",
      "CreateLicenseManagerReportGeneratorRequest$Tags": " Tags to add to the report generator. ",
      "GetLicenseConfigurationResponse$Tags": " Tags for the license configuration. ",
      "ListTagsForResourceResponse$Tags": " Information about the tags. ",
      "ReportGenerator$Tags": " Tags associated with the report generator. ",
      "TagResourceRequest$Tags": " One or more tags. "
    }
  },
  "TagResourceRequest": {
    "base": null,
    "refs": {
    }
  },
  "TagResourceResponse": {
    "base": null,
    "refs": {

    }
  },
  "TokenData": {
    "base": " Describes a token. ",
    "refs": {
      "TokenList$member": null
    }
  },
  "TokenList": {
    "base": null,
    "refs": {
      "ListTokensResponse$Tokens": " Received token details. "
    }
  },
  "TokenString": {
    "base": null,
    "refs": {

"CreateTokenResponse$Token": " Refresh token, encoded as a JWT token. ",
"GetAccessTokenRequest$Token": " Refresh token, encoded as a JWT token. ",
"GetAccessTokenResponse$AccessToken": " Temporary access token. "
}
},
"TokenType": {
"base": null,
"refs": {
"CreateTokenResponse$TokenType": " Token type. "
}
},
"UnsupportedDigitalSignatureMethodException": {
"base": " The digital signature method is unsupported. Try your request again. ",
"refs": {
}
},
"UntagResourceRequest": {
"base": null,
"refs": {
}
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"UntagResourceResponse":
{
"base": null,
"refs": {
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},
"UpdateLicenseConfigurationRequest": {
"base": null,
"refs": {
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"UpdateLicenseConfigurationResponse": {
"base": null,
"refs": {
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},
"UpdateLicenseManagerReportGeneratorRequest": {
"base": null,
"refs": {
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"UpdateLicenseManagerReportGeneratorResponse": {
"base": null,
"refs": {
}
},
"UpdateLicenseSpecificationsForResourceRequest": {

"base": null,
"refs": {
}
},
"UpdateLicenseSpecificationsForResourceResponse": {
"base": null,
"refs": {
}
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"UpdateServiceSettingsRequest": {
"base": null,
"refs": {
}
},
"UpdateServiceSettingsResponse": {
"base": null,
"refs": {
}
},
"UsageOperation": {
"base": null,
"refs": {
"LicenseConversionContext$UsageOperation": " The Usage operation value
that corresponds to the license type you are converting your resource from. For more information about which
platforms correspond to which usage operation values see <a
href=\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-info-fields.html#billing-info\">Sample
data: usage operation by platform "
}
},
"ValidationException": {
"base": " The provided input is not valid. Try your request again. ",
"refs": {
}
}
}
}
{
"testCases": [
{
"documentation": "For region af-south-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.af-south-1.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,

"Region": "af-south-1"
}
},
{
"documentation": "For region ap-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-east-1.amazonaws.com"
}
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"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "ap-east-1"
}
},
{
"documentation": "For region ap-northeast-1 with FIPS disabled and DualStack disabled",

"expect": {
"endpoint": {
"url": "https://license-manager.ap-northeast-1.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "ap-northeast-1"
}
},
{
"documentation": "For region ap-northeast-2 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-northeast-2.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "ap-northeast-2"
}
},
{
"documentation": "For region ap-northeast-3 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-northeast-3.amazonaws.com"

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            }
        },
        "params": {
            "UseFIPS": false,
            "UseDualStack": false,
            "Region": "ap-northeast-3"
        }
    },
    {
        "documentation": "For region ap-south-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.ap-south-1.amazonaws.com"
            }
        },
        "params": {
            "UseFIPS": false,
            "UseDualStack": false,
            "Region": "ap-south-1"
        }
    },
    {
        "documentation": "For region ap-southeast-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.ap-southeast-1.amazonaws.com"
            }
        },
        "params": {
            "UseFIPS": false,
            "UseDualStack":
false,
            "Region": "ap-southeast-1"
        }
    },
    {
        "documentation": "For region ap-southeast-2 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.ap-southeast-2.amazonaws.com"
            }
        },
        "params": {
            "UseFIPS": false,
            "UseDualStack": false,
            "Region": "ap-southeast-2"
        }
    },
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    {
      "documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-southeast-3.amazonaws.com"
        }
      },
      "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "ap-southeast-3"
      }
    },
    {
      "documentation":
"For region ca-central-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ca-central-1.amazonaws.com"
        }
      },
      "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "ca-central-1"
      }
    },
    {
      "documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.eu-central-1.amazonaws.com"
        }
      },
      "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "eu-central-1"
      }
    },
    {
      "documentation": "For region eu-north-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint":
{
          "url": "https://license-manager.eu-north-1.amazonaws.com"
        }
      },
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"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "eu-north-1"
}
},
{
"documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-south-1.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "eu-south-1"
}
},
{
"documentation": "For region eu-west-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-west-1.amazonaws.com"
}
},
"params":
{
"UseFIPS": false,
"UseDualStack": false,
"Region": "eu-west-1"
}
},
{
"documentation": "For region eu-west-2 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-west-2.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "eu-west-2"
}
},
{
"documentation": "For region eu-west-3 with FIPS disabled and DualStack disabled",

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        "expect": {
          "endpoint": {
            "url": "https://license-manager.eu-west-3.amazonaws.com"
          }
        },
        "params": {
          "UseFIPS": false,
          "UseDualStack": false,
          "Region": "eu-west-3"
        }

    },
    {
        "documentation": "For region me-south-1 with FIPS disabled and DualStack disabled",
        "expect": {
          "endpoint": {
            "url": "https://license-manager.me-south-1.amazonaws.com"
          }
        },
        "params": {
          "UseFIPS": false,
          "UseDualStack": false,
          "Region": "me-south-1"
        }
    },
    {
        "documentation": "For region sa-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
          "endpoint": {
            "url": "https://license-manager.sa-east-1.amazonaws.com"
          }
        },
        "params": {
          "UseFIPS": false,
          "UseDualStack": false,
          "Region": "sa-east-1"
        }
    },
    {
        "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
        "expect": {

        "endpoint": {
            "url": "https://license-manager.us-east-1.amazonaws.com"
          }
        },
        "params": {
          "UseFIPS": false,
```

```
        "UseDualStack": false,
        "Region": "us-east-1"
    }
},
{
    "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-fips.us-east-1.amazonaws.com"
        }
    },
    "params": {
        "UseFIPS": true,
        "UseDualStack": false,
        "Region": "us-east-1"
    }
},
{
    "documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.us-east-2.amazonaws.com"
        }
    },

 "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "us-east-2"
    }
},
{
    "documentation": "For region us-east-2 with FIPS enabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-fips.us-east-2.amazonaws.com"
        }
    },
    "params": {
        "UseFIPS": true,
        "UseDualStack": false,
        "Region": "us-east-2"
    }
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{
    "documentation": "For region us-west-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
```

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            "url": "https://license-manager.us-west-1.amazonaws.com"
          }
        },
        "params": {
          "UseFIPS": false,
          "UseDualStack": false,
          "Region": "us-west-1"

    }
      },
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        "documentation": "For region us-west-1 with FIPS enabled and DualStack disabled",
        "expect": {
          "endpoint": {
            "url": "https://license-manager-fips.us-west-1.amazonaws.com"
          }
        },
        "params": {
          "UseFIPS": true,
          "UseDualStack": false,
          "Region": "us-west-1"
        }
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        "documentation": "For region us-west-2 with FIPS disabled and DualStack disabled",
        "expect": {
          "endpoint": {
            "url": "https://license-manager.us-west-2.amazonaws.com"
          }
        },
        "params": {
          "UseFIPS": false,
          "UseDualStack": false,
          "Region": "us-west-2"
        }
      },
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        "documentation": "For region us-west-2 with FIPS enabled and DualStack disabled",
        "expect":
  {
          "endpoint": {
            "url": "https://license-manager-fips.us-west-2.amazonaws.com"
          }
        },
        "params": {
          "UseFIPS": true,
          "UseDualStack": false,
          "Region": "us-west-2"
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    }
},
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    "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-fips.us-east-1.api.aws"
        }
    },
    "params": {
        "UseFIPS": true,
        "UseDualStack": true,
        "Region": "us-east-1"
    }
},
{
    "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.us-east-1.api.aws"
        }
    },

 "params": {
        "UseFIPS": false,
        "UseDualStack": true,
        "Region": "us-east-1"
    }
},
{
    "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.cn-north-1.amazonaws.com.cn"
        }
    },
    "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "cn-north-1"
    }
},
{
    "documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
        }
```

```
        },
        "params": {
            "UseFIPS": false,
            "UseDualStack": false,
            "Region": "cn-northwest-1"
        }
    },
    {
        "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-fips.cn-north-1.api.amazonwebservices.com.cn"
            }
        },
        "params": {
            "UseFIPS": true,
            "UseDualStack": true,
            "Region": "cn-north-1"
        }
    },
    {
        "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-fips.cn-north-1.amazonaws.com.cn"
            }
        },
        "params": {
            "UseFIPS": true,
            "UseDualStack": false,
            "Region": "cn-north-1"
        }
    },
    {
        "documentation": "For region cn-north-1 with FIPS disabled
and DualStack enabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.cn-north-1.api.amazonwebservices.com.cn"
            }
        },
        "params": {
            "UseFIPS": false,
            "UseDualStack": true,
            "Region": "cn-north-1"
        }
    },
    {
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    "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.us-gov-east-1.amazonaws.com"
      }
    },
    "params": {
      "UseFIPS": false,
      "UseDualStack": false,
      "Region": "us-gov-east-1"
    }
  },
  {
    "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
       }
    },
    "params": {
      "UseFIPS": true,
      "UseDualStack": false,
      "Region": "us-gov-east-1"
    }
  },
  {
    "documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.us-gov-west-1.amazonaws.com"
      }
    },
    "params": {
      "UseFIPS": false,
      "UseDualStack": false,
      "Region": "us-gov-west-1"
    }
  },
  {
    "documentation": "For region us-gov-west-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-fips.us-gov-west-1.amazonaws.com"
      }
    },
    "params": {
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"UseFIPS": true,
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"Region": "us-gov-west-1"
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"endpoint": {
"url": "https://license-manager-fips.us-gov-east-1.api.aws"
}
},
"params": {
"UseFIPS": true,
"UseDualStack": true,
"Region": "us-gov-east-1"
}
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"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-gov-east-1.api.aws"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": true,
"Region": "us-gov-east-1"
}

},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "us-iso-east-1"
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {

"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {
"UseFIPS": true,
"UseDualStack": true,
"Region": "us-iso-east-1"
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect": {

"endpoint": {
"url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"UseFIPS": true,
"UseDualStack": false,
"Region": "us-iso-east-1"
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"UseFIPS": false,
"UseDualStack": true,
"Region": "us-iso-east-1"
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
}
},
"params":
{
"UseFIPS": false,
"UseDualStack": false,
"Region": "us-isob-east-1"
}
},
{

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    "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
    "expect": {
        "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
    },
    "params": {
        "UseFIPS": true,
        "UseDualStack": true,
        "Region": "us-isob-east-1"
    }
},
{
    "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
        }
    },
    "params": {
        "UseFIPS": true,
        "UseDualStack": false,
        "Region": "us-isob-east-1"
    }
},
{
    "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
        "error": "DualStack is enabled but this partition does not support DualStack"
    },
    "params": {
        "UseFIPS": false,
        "UseDualStack": true,
        "Region": "us-isob-east-1"
    }
},
{
    "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
    "expect": {
        "endpoint": {
            "url": "https://example.com"
        }
    },
    "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "us-east-1",
        "Endpoint": "https://example.com"
    }
},
```

```
      {
        "documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
        "expect": {
          "endpoint": {
            "url": "https://example.com"
          }
        },
        "params": {
          "UseFIPS": false,
          "UseDualStack": false,
          "Endpoint": "https://example.com"
        }
      },
      {
        "documentation": "For custom endpoint with fips enabled and dualstack disabled",
        "expect": {
          "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
        },
        "params": {
          "UseFIPS": true,
          "UseDualStack": false,
          "Region": "us-east-1",
          "Endpoint": "https://example.com"
        }
      },
      {
        "documentation": "For custom endpoint with fips disabled and dualstack enabled",
        "expect": {
          "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
        },
        "params": {
          "UseFIPS": false,
          "UseDualStack": true,
          "Region": "us-east-1",
          "Endpoint": "https://example.com"
        }
      },
      {
        "documentation": "Missing region",
        "expect": {
          "error": "Invalid Configuration: Missing Region"
        }
      }
    ],
    "version": "1.0"
  }
  {
    "version": "1.0",
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  "parameters": {
    "Region": {
      "builtIn": "AWS::Region",
      "required": false,
      "documentation": "The AWS region used to dispatch the request.",
      "type": "String"
    },
    "UseDualStack": {
      "builtIn": "AWS::UseDualStack",
      "required": true,
      "default": false,
      "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
      "type": "Boolean"
    },
    "UseFIPS": {
      "builtIn": "AWS::UseFIPS",
      "required": true,
      "default": false,
      "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
      "type": "Boolean"
    },
    "Endpoint": {

   "builtIn": "SDK::Endpoint",
      "required": false,
      "documentation": "Override the endpoint used to send this request",
      "type": "String"
    }
  },
  "rules": [
    {
      "conditions": [
        {
          "fn": "isSet",
          "argv": [
            {
              "ref": "Endpoint"
            }
          ]
        }
      ],
      "rules": [
        {
          "conditions": [
            {
              "fn": "booleanEquals",
```

```
                "argv": [
                  {
                    "ref": "UseFIPS"
                  },
                  true
                ]
              }
            ],
            "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
             "type": "error"
          },
          {
            "conditions": [],
            "rules": [
              {
                "conditions": [
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      {
                        "ref": "UseDualStack"
                      },
                      true
                    ]
                  }
                ],
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                "type": "error"
              },
              {
                "conditions": [],
                "endpoint": {
                  "url": {

                 "ref": "Endpoint"
                  },
                  "properties": {},
                  "headers": {}
                },
                "type": "endpoint"
              }
            ],
            "type": "tree"
          }
        ],
        "type": "tree"
      },
      {
```

```
    "conditions": [],
    "rules": [
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        "conditions": [
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            "fn": "isSet",
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                "ref": "Region"
              }
            ]
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              {

"fn": "aws.partition",
                "argv": [
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                    "ref": "Region"
                  }
                ],
                "assign": "PartitionResult"
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            ],
            "rules": [
              {
                "conditions": [
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      {
                        "ref": "UseFIPS"
                      },
                      true
                    ]
                  },

            {
                    "fn": "booleanEquals",
                    "argv": [
                      {
                        "ref": "UseDualStack"
                      },
                      true
                    ]
```

```
                    }
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                        "conditions": [
                            {
                                "fn": "booleanEquals",
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                                    true,
                                    {

            "fn": "getAttr",
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                                            {
                                                "ref": "PartitionResult"
                                            },
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                                        ]
                                    }
                                ]
                            },
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                                "fn": "booleanEquals",
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                                    true,
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                                            },
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                                        ]
                                    }
                                ]
                            }
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                        "rules": [
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                                "conditions": [],
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                "conditions": [],
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fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
```

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                    "type": "tree"
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            "type": "tree"
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both",
            "type": "error"
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    ],
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},
{
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```

```
},
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                            "conditions": [],
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                            "type": "tree"
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                    "type": "error"
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                        },
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                    ]
                }
            ],
```

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                        "argv": [
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                            "argv": [
                              {
                                "ref": "PartitionResult"
                              },
                              "supportsDualStack"
                            ]
                          }
                        ]
                      }
                    ],
                    "rules": [
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                        "conditions": [],
                        "rules": [

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subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                              "properties": {},
                              "headers": {}
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                          }
                        ],
                        "type": "tree"
                      }
                    ],
                    "type": "tree"

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                  {
                    "conditions": [],
                    "error": "DualStack is enabled but this partition does not support DualStack",
                    "type": "error"
                  }
                ],
```

"type": "tree"
},
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"conditions": [],
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{
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subscriptions.{Region}.{PartitionResult#dnsSuffix}",
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"type": "tree"
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{
"conditions": [],
"error": "Invalid Configuration: Missing Region",
"type": "error"
}
],
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"pagination": {
"ListLinuxSubscriptionInstances": {
"input_token": "NextToken",
"output_token": "NextToken",
"limit_key": "MaxResults",
"result_key": "Instances"
},
"ListLinuxSubscriptions": {
"input_token": "NextToken",
"output_token": "NextToken",
"limit_key": "MaxResults",
"result_key": "Subscriptions"

```
  },
  "ListRegisteredSubscriptionProviders": {
    "input_token": "NextToken",
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    "result_key": "RegisteredSubscriptionProviders"
  }
 }
}
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 "examples": {
 }
}
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    "output_token": "NextToken",
    "limit_key": "MaxResults",
    "result_key": "IdentityProviderSummaries"
  },
  "ListInstances": {
    "input_token": "NextToken",
    "output_token": "NextToken",
    "limit_key": "MaxResults",
    "result_key": "InstanceSummaries"
  },
  "ListProductSubscriptions": {
    "input_token": "NextToken",
    "output_token": "NextToken",
    "limit_key": "MaxResults",
    "result_key": "ProductUserSummaries"
  },
  "ListUserAssociations": {
    "input_token": "NextToken",
    "output_token": "NextToken",
    "limit_key": "MaxResults",
    "result_key": "InstanceUserSummaries"
  }
 }
}
```


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{
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"metadata":{
"apiVersion":"2018-05-10",
"endpointPrefix":"license-manager-user-subscriptions",
"jsonVersion":"1.1",
"protocol":"rest-json",
"serviceFullName":"AWS License Manager User Subscriptions",
"serviceId":"License Manager User Subscriptions",
"signatureVersion":"v4",
"signingName":"license-manager-user-subscriptions",
"uid":"license-manager-user-subscriptions-2018-05-10"
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"http":{
"method":"POST",
"requestUri":"/user/AssociateUser",
"responseCode":200
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"output":{"shape":"AssociateUserResponse"},
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{"shape":"ConflictException"},

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    {"shape":"ThrottlingException"},
    {"shape":"InternalServerException"},
    {"shape":"ResourceNotFoundException"},
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  ],
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    "requestUri":"/identity-provider/DeregisterIdentityProvider",
    "responseCode":200
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    {"shape":"ConflictException"},
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    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "idempotent":true
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  "errors":[
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    {"shape":"ConflictException"},
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    {"shape":"InternalServerException"},
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    {"shape":"AccessDeniedException"}
  ],
  "idempotent":true
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  "requestUri":"/identity-provider/ListIdentityProviders",
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  {"shape":"ResourceNotFoundException"},
  {"shape":"AccessDeniedException"}
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  {"shape":"ResourceNotFoundException"},
  {"shape":"AccessDeniedException"}
 ]
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"ListProductSubscriptions":{
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  "method":"POST",
  "requestUri":"/user/ListProductSubscriptions",
  "responseCode":200
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 "input":{"shape":"ListProductSubscriptionsRequest"},
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    "errors":[
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      {"shape":"ConflictException"},
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      {"shape":"ThrottlingException"},
      {"shape":"InternalServerException"},
      {"shape":"ResourceNotFoundException"},
      {"shape":"AccessDeniedException"}
    ]
  },
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    "http":{
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      "requestUri":"/user/ListUserAssociations",
      "responseCode":200
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    "input":{"shape":"ListUserAssociationsRequest"},
    "output":{"shape":"ListUserAssociationsResponse"},
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      {"shape":"ConflictException"},
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      {"shape":"InternalServerException"},
      {"shape":"ResourceNotFoundException"},
      {"shape":"AccessDeniedException"}
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  },
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    "responseCode":200
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  "input":{"shape":"StartProductSubscriptionRequest"},

 "output":{"shape":"StartProductSubscriptionResponse"},
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    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerException"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ]
},
"StopProductSubscription":{
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  "http":{
    "method":"POST",
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    "responseCode":200
  },
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  "output":{"shape":"StopProductSubscriptionResponse"},
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   {"shape":"AccessDeniedException"}
  ]
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  "http":{
    "method":"POST",
    "requestUri":"/identity-provider/UpdateIdentityProviderSettings",
    "responseCode":200
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"message":{"shape":"String"}
},
"exception":true
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"ActiveDirectoryIdentityProvider":{
"type":"structure",
"members":{
"DirectoryId":{"shape":"String"}
}
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"AssociateUserRequest":{
"type":"structure",
"required":[
"IdentityProvider",
"InstanceId",
"Username"
],
"members":{
"Domain":{"shape":"String"},
"IdentityProvider":{"shape":"IdentityProvider"},
"InstanceId":{"shape":"String"},
"Username":{"shape":"String"}
}
},
"AssociateUserResponse":{
"type":"structure",
"required":["InstanceUserSummary"],
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"InstanceUserSummary":{"shape":"InstanceUserSummary"}
}
},
"BoxInteger":{
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  "box":true
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"ConflictException":{
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  "members":{
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  "exception":true,
  "fault":true
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"DeregisterIdentityProviderRequest":{
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  "required":[
    "IdentityProvider",
    "Product"
  ],
  "members":{
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    "Product":{"shape":"String"}
  }
 },
"DeregisterIdentityProviderResponse":{
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  "required":["IdentityProviderSummary"],
  "members":{
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  }
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"DisassociateUserRequest":{
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    "InstanceId",
    "Username"
  ],
  "members":{
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    "IdentityProvider":{"shape":"IdentityProvider"},
    "InstanceId":{"shape":"String"},
    "Username":{"shape":"String"}
  }
},
"DisassociateUserResponse":{
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  "required":["InstanceUserSummary"],
  "members":{
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  }
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"Filter":{
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  "members":{
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    "Operation":{"shape":"String"},
    "Value":{"shape":"String"}
  }
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"FilterList":{
  "type":"list",
   "member":{"shape":"Filter"}
},
"IdentityProvider":{
  "type":"structure",
  "members":{
    "ActiveDirectoryIdentityProvider":{"shape":"ActiveDirectoryIdentityProvider"}
  },
  "union":true
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"IdentityProviderSummary":{
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  "required":[
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    "Product",
    "Settings",
    "Status"
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    "Product":{"shape":"String"},
    "Settings":{"shape":"Settings"},
    "Status":{"shape":"String"}
  }
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"IdentityProviderSummaryList":{
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  "member":{"shape":"IdentityProviderSummary"}
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"InstanceSummary":{
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    "Products",
    "Status"
  ],
  "members":{
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"InstanceId":{"shape":"String"},
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"Products":{"shape":"StringList"},
"Status":{"shape":"String"},
"StatusMessage":{"shape":"String"}
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"InstanceId",
"Status",
"Username"
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"DisassociationDate":{"shape":"String"},
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"Status":{"shape":"String"},
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"Username":{"shape":"String"}
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"InternalServerException":{
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"message":{"shape":"String"}
},
"exception":true,
"fault":true
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"type":"structure",
"members":{
"MaxResults":{"shape":"BoxInteger"},
"NextToken":{"shape":"String"}

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    "NextToken":{"shape":"String"}
  }
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    "MaxResults":{"shape":"BoxInteger"},
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  }
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"ListInstancesResponse":{
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  "members":{
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    "NextToken":{"shape":"String"}
  }
},
"ListProductSubscriptionsRequest":{
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    "Product"
  ],
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    "IdentityProvider":{"shape":"IdentityProvider"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"},
    "Product":{"shape":"String"}
  }
},
"ListProductSubscriptionsResponse":{
  "type":"structure",
  "members":{
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    "ProductUserSummaries":{"shape":"ProductUserSummaryList"}
  }
},
"ListUserAssociationsRequest":{
  "type":"structure",
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"Username"
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"IdentityProvider":{"shape":"IdentityProvider"},
"Product":{"shape":"String"},
"Status":{"shape":"String"},
"StatusMessage":{"shape":"String"},
"SubscriptionEndDate":{"shape":"String"},
"SubscriptionStartDate":{"shape":"String"},
"Username":{"shape":"String"}
}
},
"ProductUserSummaryList":{
"type":"list",
"member":{"shape":"ProductUserSummary"}
},
"RegisterIdentityProviderRequest":{
"type":"structure",
"required":[
"IdentityProvider",
"Product"

```
  ],
  "members":{
    "IdentityProvider":{"shape":"IdentityProvider"},
     "Product":{"shape":"String"},
    "Settings":{"shape":"Settings"}
  }
},
"RegisterIdentityProviderResponse":{
  "type":"structure",
  "required":["IdentityProviderSummary"],
  "members":{
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  }
},
"ResourceNotFoundException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "error":{
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    "senderFault":true
  },
  "exception":true
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"SecurityGroup":{
  "type":"string",
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  "pattern":"^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
},
"ServiceQuotaExceededException":{
  "type":"structure",
  "members":{
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  },
  "exception":true
},
"Settings":{
  "type":"structure",
  "required":[
    "SecurityGroupId",
    "Subnets"
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  "members":{
    "SecurityGroupId":{"shape":"SecurityGroup"},
     "Subnets":{"shape":"SettingsSubnetsList"}
  }
```

```
},
"SettingsSubnetsList":{
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  "member":{"shape":"Subnet"},
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  "required":[
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    "Product",
    "Username"
  ],
  "members":{
    "Domain":{"shape":"String"},
    "IdentityProvider":{"shape":"IdentityProvider"},
    "Product":{"shape":"String"},
    "Username":{"shape":"String"}
  }
},
"StartProductSubscriptionResponse":{
  "type":"structure",
  "required":["ProductUserSummary"],
  "members":{
    "ProductUserSummary":{"shape":"ProductUserSummary"}
  }
},
"StopProductSubscriptionRequest":{
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  "required":[
    "IdentityProvider",
    "Product",
    "Username"
  ],
  "members":{
    "Domain":{"shape":"String"},
    "IdentityProvider":{"shape":"IdentityProvider"},
     "Product":{"shape":"String"},
    "Username":{"shape":"String"}
  }
},
"StopProductSubscriptionResponse":{
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  "required":["ProductUserSummary"],
  "members":{
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  }
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"String":{"type":"string"},
"StringList":{
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"Subnet":{
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},
"Subnets":{
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  "member":{"shape":"Subnet"}
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  "members":{
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  "exception":true
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"UpdateIdentityProviderSettingsRequest":{
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    "Product",
    "UpdateSettings"
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     "Product":{"shape":"String"},
    "UpdateSettings":{"shape":"UpdateSettings"}
  }
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"UpdateIdentityProviderSettingsResponse":{
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  "required":["IdentityProviderSummary"],
  "members":{
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  }
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"UpdateSettings":{
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  "required":[
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    "RemoveSubnets"
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    "AddSubnets":{"shape":"Subnets"},

"RemoveSubnets":{"shape":"Subnets"},
"SecurityGroupId":{"shape":"SecurityGroup"}
}
},
"ValidationException":{
"type":"structure",
"members":{
"message":{"shape":"String"}
},
"exception":true
}
}
}

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{
"version":"2.0",
"metadata":{
  "apiVersion":"2018-05-10",
  "endpointPrefix":"license-manager-linux-subscriptions",
  "jsonVersion":"1.1",
  "protocol":"rest-json",
  "protocols":["rest-json"],
  "serviceFullName":"AWS License Manager Linux Subscriptions",
  "serviceId":"License Manager Linux Subscriptions",
  "signatureVersion":"v4",
  "signingName":"license-manager-linux-subscriptions",
  "uid":"license-manager-linux-subscriptions-2018-05-10",
  "auth":["aws.auth#sigv4"]
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"operations":{
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```

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  "name":"DeregisterSubscriptionProvider",
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    "responseCode":200
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  "input":{"shape":"DeregisterSubscriptionProviderRequest"},
  "output":{"shape":"DeregisterSubscriptionProviderResponse"},
  "errors":[
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    {"shape":"ResourceNotFoundException"},
     {"shape":"ThrottlingException"},
    {"shape":"ValidationException"}
  ],
  "idempotent":true
},
"GetRegisteredSubscriptionProvider":{
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    "responseCode":200
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  "input":{"shape":"GetRegisteredSubscriptionProviderRequest"},
  "output":{"shape":"GetRegisteredSubscriptionProviderResponse"},
  "errors":[
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    {"shape":"ThrottlingException"},
    {"shape":"ValidationException"}
  ],
  "idempotent":true
},
"GetServiceSettings":{
  "name":"GetServiceSettings",
  "http":{
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    "requestUri":"/subscription/GetServiceSettings",
    "responseCode":200
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  "input":{"shape":"GetServiceSettingsRequest"},
  "output":{"shape":"GetServiceSettingsResponse"},
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    {"shape":"ThrottlingException"},
    {"shape":"ValidationException"}
  ],
  "idempotent":true
```

```
},
"ListLinuxSubscriptionInstances":{
  "name":"ListLinuxSubscriptionInstances",
  "http":{
    "method":"POST",
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    "responseCode":200
  },
  "input":{"shape":"ListLinuxSubscriptionInstancesRequest"},
  "output":{"shape":"ListLinuxSubscriptionInstancesResponse"},
  "errors":[
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    {"shape":"ThrottlingException"},
    {"shape":"ValidationException"}
  ],
  "idempotent":true
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    "responseCode":200
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   "output":{"shape":"ListLinuxSubscriptionsResponse"},
  "errors":[
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    {"shape":"ThrottlingException"},
    {"shape":"ValidationException"}
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  "idempotent":true
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    "responseCode":200
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  "output":{"shape":"ListRegisteredSubscriptionProvidersResponse"},
  "errors":[
    {"shape":"InternalServerException"},
    {"shape":"ThrottlingException"},
    {"shape":"ValidationException"}
  ],
  "idempotent":true
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```
},
"ListTagsForResource":{
  "name":"ListTagsForResource",
  "http":{
    "method":"GET",
    "requestUri":"/tags/{resourceArn}",
    "responseCode":200
   },
  "input":{"shape":"ListTagsForResourceRequest"},
  "output":{"shape":"ListTagsForResourceResponse"},
  "errors":[
    {"shape":"InternalServerException"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"ValidationException"}
  ]
},
"RegisterSubscriptionProvider":{
  "name":"RegisterSubscriptionProvider",
  "http":{
    "method":"POST",
    "requestUri":"/subscription/RegisterSubscriptionProvider",
    "responseCode":200
  },
  "input":{"shape":"RegisterSubscriptionProviderRequest"},
  "output":{"shape":"RegisterSubscriptionProviderResponse"},
  "errors":[
    {"shape":"InternalServerException"},
    {"shape":"ThrottlingException"},
    {"shape":"ValidationException"}
  ],
  "idempotent":true
},
"TagResource":{
  "name":"TagResource",
  "http":{
    "method":"PUT",
    "requestUri":"/tags/{resourceArn}",
    "responseCode":200
  },

  "input":{"shape":"TagResourceRequest"},
  "output":{"shape":"TagResourceResponse"},
  "errors":[
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    {"shape":"ResourceNotFoundException"},
    {"shape":"ValidationException"}
  ],
  "idempotent":true
```

```
  },
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    "http":{
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      "responseCode":200
    },
    "input":{"shape":"UntagResourceRequest"},
    "output":{"shape":"UntagResourceResponse"},
    "errors":[
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      {"shape":"ResourceNotFoundException"}
    ],
    "idempotent":true
  },
  "UpdateServiceSettings":{
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    "http":{
      "method":"POST",
      "requestUri":"/subscription/UpdateServiceSettings",
      "responseCode":200
    },
    "input":{"shape":"UpdateServiceSettingsRequest"},
    "output":{"shape":"UpdateServiceSettingsResponse"},
     "errors":[
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      {"shape":"ThrottlingException"},
      {"shape":"ValidationException"}
    ],
    "idempotent":true
  }
},
"shapes":{
  "Boolean":{
    "type":"boolean",
    "box":true
  },
  "BoxInteger":{
    "type":"integer",
    "box":true
  },
  "BoxLong":{
    "type":"long",
    "box":true
  },
  "DeregisterSubscriptionProviderRequest":{
    "type":"structure",
```

"required":["SubscriptionProviderArn"],
"members":{
"SubscriptionProviderArn":{"shape":"SubscriptionProviderArn"}
}
},
"DeregisterSubscriptionProviderResponse":{
"type":"structure",
"members":{
}
},
"Filter":{
"type":"structure",
"members":{
"Name":{"shape":"String"},
"Operator":{"shape":"Operator"},
"Values":{"shape":"StringList"}
}
},
"FilterList":{
"type":"list",
"member":{"shape":"Filter"}
},
"GetRegisteredSubscriptionProviderRequest":{
"type":"structure",
"required":["SubscriptionProviderArn"],
"members":{
"SubscriptionProviderArn":{"shape":"SubscriptionProviderArn"}
}
},
"GetRegisteredSubscriptionProviderResponse":{
"type":"structure",
"members":{
"LastSuccessfulDataRetrievalTime":{"shape":"String"},
"SecretArn":{"shape":"SecretArn"},
"SubscriptionProviderArn":{"shape":"SubscriptionProviderArn"},
"SubscriptionProviderSource":{"shape":"SubscriptionProviderSource"},
"SubscriptionProviderStatus":{"shape":"SubscriptionProviderStatus"},
"SubscriptionProviderStatusMessage":{"shape":"String"}
}
},
"GetServiceSettingsRequest":{
"type":"structure",
"members":{
}
},
"GetServiceSettingsResponse":{
"type":"structure",
"members":{

"HomeRegions":{"shape":"StringList"},
"LinuxSubscriptionsDiscovery":{"shape":"LinuxSubscriptionsDiscovery"},
"LinuxSubscriptionsDiscoverySettings":{"shape":"LinuxSubscriptionsDiscoverySettings"},
"Status":{"shape":"Status"},
"StatusMessage":{"shape":"StringMap"}
}
},
"Instance":{
"type":"structure",
"members":{
"AccountID":{"shape":"String"},
"AmiId":{"shape":"String"},
"DualSubscription":{"shape":"String"},
"InstanceID":{"shape":"String"},
"InstanceType":{"shape":"String"},
"LastUpdatedTime":{"shape":"String"},
"OsVersion":{"shape":"String"},
"ProductCode":{"shape":"ProductCodeList"},
"Region":{"shape":"String"},
"RegisteredWithSubscriptionProvider":{"shape":"String"},
"Status":{"shape":"String"},
"SubscriptionName":{"shape":"String"},
"SubscriptionProviderCreateTime":{"shape":"String"},
"SubscriptionProviderUpdateTime":{"shape":"String"},
"UsageOperation":{"shape":"String"}
}
},

"InstanceList":{
"type":"list",
"member":{"shape":"Instance"}
},
"InternalServerException":{
"type":"structure",
"members":{
"message":{"shape":"String"}
},
"exception":true,
"fault":true
},
"LinuxSubscriptionsDiscovery":{
"type":"string",
"enum":[
"Enabled",
"Disabled"
]
},
"LinuxSubscriptionsDiscoverySettings":{

"type":"structure",
"required":[
"OrganizationIntegration",
"SourceRegions"
],
"members":{
"OrganizationIntegration":{"shape":"OrganizationIntegration"},
"SourceRegions":{"shape":"StringList"}
}
},
"ListLinuxSubscriptionInstancesRequest":{
"type":"structure",
"members":{
"Filters":{"shape":"FilterList"},
"MaxResults":{"shape":"BoxInteger"},
"NextToken":{"shape":"ListLinuxSubscriptionInstancesRequestNextTokenString"}
}
},
"ListLinuxSubscriptionInstancesRequestNextTokenString":{
"type":"string",
"max":16384,
"min":1
},
"ListLinuxSubscriptionInstancesResponse":{
"type":"structure",
"members":{
"Instances":{"shape":"InstanceList"},
"NextToken":{"shape":"String"}
}
},
"ListLinuxSubscriptionsRequest":{
"type":"structure",
"members":{
"Filters":{"shape":"FilterList"},
"MaxResults":{"shape":"BoxInteger"},
"NextToken":{"shape":"ListLinuxSubscriptionsRequestNextTokenString"}
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"ListLinuxSubscriptionsRequestNextTokenString":{
"type":"string",
"max":16384,
"min":1
},
"ListLinuxSubscriptionsResponse":{
"type":"structure",
"members":{
"NextToken":{"shape":"String"},
"Subscriptions":{"shape":"SubscriptionList"}

```
  }
},
"ListRegisteredSubscriptionProvidersRequest":{
  "type":"structure",
  "members":{
    "MaxResults":{"shape":"ListRegisteredSubscriptionProvidersRequestMaxResultsInteger"},
     "NextToken":{"shape":"String"},
    "SubscriptionProviderSources":{"shape":"SubscriptionProviderSourceList"}
  }
},
"ListRegisteredSubscriptionProvidersRequestMaxResultsInteger":{
  "type":"integer",
  "box":true,
  "max":100,
  "min":1
},
"ListRegisteredSubscriptionProvidersResponse":{
  "type":"structure",
  "members":{
    "NextToken":{"shape":"String"},
    "RegisteredSubscriptionProviders":{"shape":"RegisteredSubscriptionProviderList"}
  }
},
"ListTagsForResourceRequest":{
  "type":"structure",
  "required":["resourceArn"],
  "members":{
    "resourceArn":{
      "shape":"SubscriptionProviderArn",
      "location":"uri",
      "locationName":"resourceArn"
    }
  }
},
"ListTagsForResourceResponse":{
  "type":"structure",
  "members":{
    "tags":{"shape":"Tags"}
  }
},
"Operator":{
  "type":"string",
   "enum":[
    "Equal",
    "NotEqual",
    "Contains"
  ],
  "max":20,
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  "min":1
},
"OrganizationIntegration":{
  "type":"string",
  "enum":[
    "Enabled",
    "Disabled"
  ]
},
"ProductCodeList":{
  "type":"list",
  "member":{"shape":"String"}
},
"RegisterSubscriptionProviderRequest":{
  "type":"structure",
  "required":[
    "SecretArn",
    "SubscriptionProviderSource"
  ],
  "members":{
    "SecretArn":{"shape":"SecretArn"},
    "SubscriptionProviderSource":{"shape":"SubscriptionProviderSource"},
    "Tags":{"shape":"Tags"}
  }
},
"RegisterSubscriptionProviderResponse":{
  "type":"structure",
  "members":{
    "SubscriptionProviderArn":{"shape":"String"},
    "SubscriptionProviderSource":{"shape":"SubscriptionProviderSource"},
    "SubscriptionProviderStatus":{"shape":"SubscriptionProviderStatus"}
  }
},
"RegisteredSubscriptionProvider":{
   "type":"structure",
  "members":{
    "LastSuccessfulDataRetrievalTime":{"shape":"String"},
    "SecretArn":{"shape":"SecretArn"},
    "SubscriptionProviderArn":{"shape":"SubscriptionProviderArn"},
    "SubscriptionProviderSource":{"shape":"SubscriptionProviderSource"},
    "SubscriptionProviderStatus":{"shape":"SubscriptionProviderStatus"},
    "SubscriptionProviderStatusMessage":{"shape":"String"}
  }
},
"RegisteredSubscriptionProviderList":{
  "type":"list",
  "member":{"shape":"RegisteredSubscriptionProvider"}
},
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"ResourceNotFoundException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "exception":true
},
"SecretArn":{
  "type":"string",
  "pattern":"^arn:[a-z0-9-\\.]{1,63}:secretsmanager:[a-z0-9-\\.]{0,63}:[a-z0-9-\\.]{0,63}:secret:[^/]{1,1023}$"
},
"Status":{
  "type":"string",
  "enum":[
    "InProgress",

"Completed",
    "Successful",
    "Failed"
  ]
},
"String":{"type":"string"},
"StringList":{
  "type":"list",
  "member":{"shape":"StringListMemberString"},
  "max":100,
  "min":1
},
"StringListMemberString":{
  "type":"string",
  "max":100,
  "min":1
},
"StringMap":{
  "type":"map",
  "key":{"shape":"String"},
  "value":{"shape":"String"}
},
"Subscription":{
  "type":"structure",
  "members":{
    "InstanceCount":{"shape":"BoxLong"},
    "Name":{"shape":"String"},
    "Type":{"shape":"String"}
  }
},
"SubscriptionList":{
  "type":"list",

"member":{"shape":"Subscription"}
},
"SubscriptionProviderArn":{
"type":"string",
"pattern":"^arn:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,510}/[a-z0-9-\\.]{1,510}$"
},
"SubscriptionProviderSource":{
"type":"string",
"enum":["RedHat"]
},
"SubscriptionProviderSourceList":{
"type":"list",
"member":{"shape":"SubscriptionProviderSource"}
},
"SubscriptionProviderStatus":{
"type":"string",
"enum":[
"ACTIVE",
"INVALID",
"PENDING"
]
},
"TagKeyList":{
"type":"list",
"member":{"shape":"String"},
"max":50,
"min":0,
"sensitive":true
},
"TagResourceRequest":{
"type":"structure",
"required":[
"resourceArn",
"tags"
],
"members":{
"resourceArn":{
"shape":"SubscriptionProviderArn",
"location":"uri",
"locationName":"resourceArn"
},
"tags":{"shape":"Tags"}
}
},
"TagResourceResponse":{
"type":"structure",
"members":{

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  }
},
"Tags":{
  "type":"map",
  "key":{"shape":"String"},
  "value":{"shape":"String"},
  "max":50,
  "min":0,
  "sensitive":true
},
"ThrottlingException":{
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  "members":{
    "message":{"shape":"String"}
  },
  "exception":true
},
"UntagResourceRequest":{
  "type":"structure",
  "required":[
    "resourceArn",
    "tagKeys"
  ],
  "members":{
    "resourceArn":{
      "shape":"SubscriptionProviderArn",
      "location":"uri",
      "locationName":"resourceArn"
    },
    "tagKeys":{
      "shape":"TagKeyList",
      "location":"querystring",
      "locationName":"tagKeys"
    }
  }
},
"UntagResourceResponse":{
  "type":"structure",
  "members":{
  }
},
"UpdateServiceSettingsRequest":{
  "type":"structure",
  "required":[
    "LinuxSubscriptionsDiscovery",
    "LinuxSubscriptionsDiscoverySettings"
  ],
  "members":{
```

"AllowUpdate":{"shape":"Boolean"},
"LinuxSubscriptionsDiscovery":{"shape":"LinuxSubscriptionsDiscovery"},
"LinuxSubscriptionsDiscoverySettings":{"shape":"LinuxSubscriptionsDiscoverySettings"}
}
},
"UpdateServiceSettingsResponse":{
"type":"structure",
"members":{
"HomeRegions":{"shape":"StringList"},
"LinuxSubscriptionsDiscovery":{"shape":"LinuxSubscriptionsDiscovery"},
"LinuxSubscriptionsDiscoverySettings":{"shape":"LinuxSubscriptionsDiscoverySettings"},
"Status":{"shape":"Status"},
"StatusMessage":{"shape":"StringMap"}
}
},
"ValidationException":{
"type":"structure",
"members":{
"message":{"shape":"String"}
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"exception":true
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"pagination": {
}
}
{
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,

"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {

"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}
},
"rules": [
{
"conditions": [
{
"fn": "isSet",
"argv": [
{
"ref": "Endpoint"
}
]
}
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"type": "tree",
"rules": [
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"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseFIPS"
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]
}
],
"error": "Invalid Configuration: FIPS and custom endpoint are not supported",
"type": "error"
},
{
"conditions": [],
"type": "tree",
"rules": [
{

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                "conditions": [
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                    "fn": "booleanEquals",
                    "argv": [
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                        "ref": "UseDualStack"
                      },
                      true
                    ]
                  }
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                "type": "error"
              },
              {
                "conditions": [],

"endpoint": {
                  "url": {
                    "ref": "Endpoint"
                  },
                  "properties": {},
                  "headers": {}
                },
                "type": "endpoint"
              }
            ]
          }
        ]
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            "conditions": [
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                "argv": [
                  {
                    "ref": "Region"
                  }
                ]
              }
            ],
            "type": "tree",
            "rules": [
              {
```

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"conditions": [
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      "fn": "aws.partition",
      "argv": [
        {
          "ref": "Region"
        }
      ],
      "assign": "PartitionResult"
    }
  ],
  "type": "tree",
  "rules": [
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        {
          "fn": "booleanEquals",
          "argv": [
            {
              "ref": "UseFIPS"
            },
```

true

```
          ]
        },
        {
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          "argv": [
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            },
            true
          ]
        }
      ],
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        {
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              "argv": [
                true,
                {
                  "fn": "getAttr",
                  "argv": [
                    {
                      "ref": "PartitionResult"
```

```
                    },
                    "supportsFIPS"
                ]
            }
        ]
    },
    {
        "fn": "booleanEquals",
        "argv": [

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            {
                "fn": "getAttr",
                "argv": [
                    {
                        "ref": "PartitionResult"
                    },
                    "supportsDualStack"
                ]
            }
        ]
    }
  ],
  "type": "tree",
  "rules": [
    {

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                "conditions": [],
                "endpoint": {
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fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                    "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
            }
        ]

}
  ]
},
{
  "conditions": [],
  "error": "FIPS and DualStack are enabled, but this partition does not support one or
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both",
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}
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},
true

]
}
],
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{
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}
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{
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"properties": {},
"headers": {}
},
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]
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},
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}
]

},
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{
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},
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]
}
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true,
{
"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},
"supportsDualStack"
]

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                ]
            }
        ],
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        "rules": [

    {
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                "type": "tree",
                "rules": [
                    {
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manager.{Region}.{PartitionResult#dualStackDnsSuffix}",
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                            "headers": {}
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                    }
                ]

        }
            ]
        },
        {
            "conditions": [],
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    ]
},
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        }
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}
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              }
            ]
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    ]
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            "url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
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        },
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          "UseDualStack": true
        }
      },
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    "expect": {
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    }
  },
  {
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```

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    }
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  {
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    }
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    },
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      "UseDualStack": false
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        }
    },
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```

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        "UseDualStack": false
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        "UseDualStack": true
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}
},
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"UseFIPS": false,
"UseDualStack": false
}
},
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"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
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"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
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            }
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    },
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        }
    }
  ],
  "version": "1.0"
}
```


1.4522 libsepol 3.5-2build1

1.4522.1 Available under license :

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Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables
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whether or not they are linked directly with the Library itself.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
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facilities. This must be distributed under
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1.4527 keyutils 1.6.3-3build1

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

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it under the terms of the GNU
General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

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with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute
it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this
is what you want to do, use the GNU Lesser General
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[Note that only a few files are distributed under this license.]

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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide

complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.
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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to

encourage the widest possible use of a certain library, so that it
becomes a de-facto standard. To achieve this, non-free programs must
be allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free
libraries. In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library,
whereas the latter must
be combined with the library in order to run.
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program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim
or with modifications and/or translated
straightforwardly into another language. (Hereinafter, translation is
included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of

its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable
sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the
scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.
^L
Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
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6. As an exception to the Sections above, you may also combine or

link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the
materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
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7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library
with a copy of the same work
based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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END OF TERMS AND CONDITIONS

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How to Apply These Terms to Your New Libraries

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library `Frob' (a library for tweaking knobs) written by James
Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

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Version 3, 29 June 2007

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An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library.
Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without
being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

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You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

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b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

5. Combined Libraries.

You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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COPYING.other -*- org -*-
#+TITLE: List of code with permissive licenses as used by GnuPG.
#+STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.4542 libsemanage-common 3.5-1build5

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1.4551 ubuntu-keyring 2023.11.28.1

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1.4553 bash 5.2.21-2ubuntu4

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the
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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany
the work with the complete corresponding
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properly with a modified version of the library, if
the user installs one, as long as the modified version is

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1.4559 libssh 0.10.6-2build2

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1.4560 libxcrypt 4.4.36-4build1

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1.4561 libffi 3.4.6-1build1

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1.4562 pam 1.5.3-5ubuntu5.1

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1.4563 libassuan 2.5.6-1build1

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly
with a modified version of the library, if
the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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1.4570 mod 0.19.0

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1.4571 commons-lang3 3.12.0

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1.4572 asm 5.1

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   * constructor</i>. Instead, they must use the
   * {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
   * version.
   *
   * @param mv
   *          the
```

```
 method visitor to which this adapter delegates calls.
   * @param access
   *          the method's access flags (see {@link Opcodes}).
   * @param name
   *          the method's name.
   * @param desc
   *          the method's descriptor (see {@link Type Type}).
   * @throws IllegalStateException
   *           If a subclass calls this constructor.
   */
```

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*/
/**
   * Constructs a new {@link ClassNode}. <i>Subclasses must not use this
```

```
    * constructor</i>. Instead, they must use the {@link #ClassNode(int)}
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    *
    * @throws IllegalStateException
    *          If a subclass calls this constructor.
     */
```

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* /opt/cola/permits/2100195891_1721121119.4439273/0/asm-all-5-1-sources-2-jar/org/objectweb/asm/TypeReference.java

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*/
/**
   * Creates a new {@link AnalyzerAdapter}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the
   * {@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
   * version.
   *
   * @param owner
   *
     the owner's class name.
   * @param access
   *          the method's access flags (see {@link Opcodes}).
   * @param name
   *          the method's name.
   * @param desc
   *          the method's descriptor (see {@link Type Type}).
   * @param mv
```

```
   *          the method visitor to which this adapter delegates calls. May
   *          be <tt>null</tt>.
   * @throws IllegalStateException
   *           If a subclass calls this constructor.
   */
```

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*

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* /opt/cola/permits/2100195891_1721121119.4439273/0/asm-all-5-1-sources-2-jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java
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* /opt/cola/permits/2100195891_1721121119.4439273/0/asm-all-5-1-sources-2-jar/org/objectweb/asm/util/ASMifiable.java

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*/
/**
   * Constructs a new {@link Textifier}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the {@link #Textifier(int)}
   * version.
   *
   * @throws IllegalStateException
   *         If a subclass calls this constructor.
    */
```

Found in path(s):
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/**
    * Creates a new JSRInliner. <i>Subclasses must not use this
    * constructor</i>. Instead, they must use the
    * {@link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
    * version.
    *
    * @param mv
    *
   the <code>MethodVisitor</code> to send the resulting inlined
    *           method code to (use <code>null</code> for none).
    * @param access
    *           the method's access flags (see {@link Opcodes}). This
    *           parameter also indicates if the method is synthetic and/or
    *           deprecated.
    * @param name
    *           the method's name.
    * @param desc
    *           the method's descriptor (see {@link Type}).
    * @param signature
    *           the method's signature. May be <tt>null</tt>.
    * @param exceptions
    *           the internal names of the method's exception classes (see
    *           {@link Type#getInternalName() getInternalName}). May be
    *           <tt>null</tt>.
    * @throws IllegalStateException
    *            If a subclass calls this constructor.
    */
```

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*/
/**
   * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
   * not use this constructor</i>. Instead, they must use the
   * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
   * version.
   *

   * @param typeRef
   *          a reference to the annotated type. See {@link TypeReference}.
   * @param typePath
   *          the path to the annotated type argument, wildcard bound, array
   *          element type, or static inner type within 'typeRef'. May be
   *          <tt>null</tt> if the annotation targets 'typeRef' as a whole.
   * @param start
   *          the fist instructions corresponding to the continuous ranges
```

```
   *          that make the scope of this local variable (inclusive).
   * @param end
   *          the last instructions corresponding to the continuous ranges
   *          that make the scope of this local variable (exclusive). This
   *          array must have the same size as the 'start' array.
   * @param index
   *          the local variable's index in each range. This array must have
   *          the same size as the 'start' array.
   * @param desc
   *          the class descriptor of
 the annotation class.
   */
```

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1.4573 zeromq 5.2.5

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1.4574 commons-lang3 3.13.0

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1.4577 reflectasm 1.11.9

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* /opt/cola/permits/2100374212_1721125185.0224085/0/reflectasm-1-11-9-sources-4-jar/com/esotericsoftware/reflectasm/AccessClassLoader.java
* /opt/cola/permits/2100374212_1721125185.0224085/0/reflectasm-1-11-9-sources-4-jar/com/esotericsoftware/reflectasm/PublicConstructorAccess.java
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1.4578 yaml 2.4.5

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1.4579 google-cloud-go 0.107.0

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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 "google.golang.org/api/iterator"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
```

```
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 //
 It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}
```

```
func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
```

```
 // TODO: Use resp.
 _
 = resp
}

func ExampleLicensesClient_Insert() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
```

```
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp
 }
}

func ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
```

```
// - It may require
specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseRequest{
 // TODO: Fill request struct fields.
 // See
https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseRequest.
}
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
```

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package compute

import (
 "bytes"
 "context"
 "fmt"
 "io/ioutil"
 "math"
 "net/http"
 "net/url"

 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"

```
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var
 newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete:            []gax.CallOption{},
  Get:               []gax.CallOption{},
  GetIamPolicy:      []gax.CallOption{},
  Insert:            []gax.CallOption{},
  List:              []gax.CallOption{},
  SetIamPolicy:      []gax.CallOption{},
  TestIamPermissions: []gax.CallOption{},
 }
}

//
 internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
```

```
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

//
 LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the
 API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
```

```
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy
 or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use
 this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution
This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating
 Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
```

```
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption)
 (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
```

```
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", versionGo()}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient)
 Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
```

```
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type",
 "application/json"))
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }
```

```
 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:
      c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
```

```
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy
 or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()
```

```
 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata,
 md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil
 {
  return nil, e
 }
```

```
 return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v", "project",
url.QueryEscape(req.GetProject())))

 headers
 := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
```

```
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return
maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial:
 true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
```

```
 req.PageToken = proto.String(pageToken)
}
if pageSize > math.MaxInt32 {
 req.MaxResults = proto.Uint32(math.MaxInt32)
} else if pageSize != 0 {
 req.MaxResults = proto.Uint32(uint32(pageSize))
}
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, "", err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.Filter != nil {
 params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
}
if req != nil && req.MaxResults != nil {
 params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
}
if req != nil && req.OrderBy != nil {
 params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
 params.Add("pageToken",
fmt.Sprintf("%v", req.GetPageToken()))
}
if req != nil && req.ReturnPartialSuccess != nil {
 params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
```

```
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil
{
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m
```

```
 := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings)
 error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
```

```
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest,
 opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true,
 DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
```

```
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
 items    []*computepb.License
 pageInfo *iterator.PageInfo
 nextFunc
 func() error

 // Response is the raw response for the current page.
 // It must be cast to the RPC response type.
 // Calling Next() or InternalFetch() updates this value.
 Response interface{}

 // InternalFetch is for use by the Google Cloud Libraries only.
```

```
 // It is not part of the stable interface of this package.
 //
 // InternalFetch returns results from a single call to the underlying RPC.
 // The number of results is no greater than pageSize.
 // If there are no more results, nextPageToken is empty and err is nil.
 InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
 return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it
 *LicenseIterator) Next() (*computepb.License, error) {
 var item *computepb.License
 if err := it.nextFunc(); err != nil {
  return item, err
 }
 item = it.items[0]
 it.items = it.items[1:]
 return item, nil
}

func (it *LicenseIterator) bufLen() int {
 return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
 b := it.items
 it.items = nil
 return b
}
// Copyright 2022 Google LLC
//
// Licensed under the Apache License, Version 2.0 (the "License");
// you may not use this file except in compliance with the License.
// You may obtain a copy of the License at
//
//     https://www.apache.org/licenses/LICENSE-2.0
//
// Unless required by applicable law or agreed to in writing, software
// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
// See the License for the specific language governing permissions and
// limitations under the License.
```

```
// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io/ioutil"
 "net/http"
 "net/url"

 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
)

var
 newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
 Get              []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
 return &LicenseCodesCallOptions{
  Get:              []gax.CallOption{},
  TestIamPermissions: []gax.CallOption{},
 }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
```

```
 (*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseCodesClient

 // The call options for this service.
 CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 return c.internalClient.Get(ctx, req, opts...)
}
```

```
// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx
 context.Context, req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licenseCodesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD

 // Points back to the CallOptions field of the containing LicenseCodesClient
 CallOptions **LicenseCodesCallOptions
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
 clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx,
 clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicenseCodesRESTCallOptions()
 c := &licenseCodesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
```

```
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go",
 versionGo()}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption)
 (*computepb.LicenseCode, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode())))
```

```
 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.LicenseCode{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(),
 nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
```

```
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq,
 err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error
 {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }
```

```
  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications
 to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
```

```
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO:
 Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
```

```
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

1.4580 swagger 2.2.22

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1.4586 libcrypt 4.4.36-4build1

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#+STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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* Regular
expression support

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Subsequently modified by:

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1993 Christopher Seiwald seiwald@vix.com
2000, 2002 Christopher Seiwald <seiwald@perforce.com>
2010 Steve Bennett <steveb@workware.net.au>
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1.4597 libsepol2 3.5-2build1

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1.4598 go-compute-metadata 0.4.0

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package compute_test
```

```
import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
```

```
 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
```

```
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
```

```
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.ListLicensesRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
}
it := c.List(ctx, req)
for {
 resp, err := it.Next()
 if err == iterator.Done {
  break
 }
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp

 // If you need to access the underlying RPC response,
 // you can do so by casting the `Response` as below.
 // Otherwise, remove this line. Only populated after
 // first call to Next(). Not safe for concurrent access.
 _ = it.Response.(*computepb.LicensesListResponse)
}
}

func
 ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
```

```
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.
```

```
package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
```

```
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
// protoc-gen-go v1.34.2
// protoc   v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

```
package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
```

```
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
```

```
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":           1,
  "WRITER":          2,
  "READER":          3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
```

```
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 if protoimpl.UnsafeEnabled {
  mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *Permission) String() string {
```

```
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission)
 ProtoReflect() protoreflect.Message {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role
 != nil {
  return *x.Role
```

```
 }
 return Permission_ROLE_UNSPECIFIED
}

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
 0x19, 0x67, 0x6f,
 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
 0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
 0x0b, 0x67,
 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
 0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
 0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
 0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
```

```
 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
 0x64,
 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
 0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
 0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
 = []any{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
```

```
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func
 file_google_ai_generativelanguage_v1beta_permission_proto_init() {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 if !protoimpl.UnsafeEnabled {
  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v any, i int) any {
   switch v := v.(*Permission); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
  GoTypes:           file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
  DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
  EnumInfos:
```

```
        file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
 MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
 }.Build()
 File_google_ai_generativelanguage_v1beta_permission_proto = out.File
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)
```

```
var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy:
 []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  Insert: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  List: []gax.CallOption{
```

```
  gax.WithTimeout(600000 * time.Millisecond),
  gax.WithRetry(func() gax.Retryer {
   return gax.OnHTTPCodes(gax.Backoff{
    Initial:    100 * time.Millisecond,
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 SetIamPolicy: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 TestIamPermissions: []gax.CallOption{
  gax.WithTimeout(600000
* time.Millisecond),
 },
}
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient
```

```
 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
 for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by
third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
```

```
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
 list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use
 only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
```

```
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
```

```
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient
 = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }
```

```
baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params",
fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "license",
url.QueryEscape(req.GetLicense()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf,
err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
```

```
 }
 op := &Operation{
  &globalOperationsHandle{
   c:       c.operationClient,
   proto:   resp,
   project: req.GetProject(),
  },
 }
 return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()),
 "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()
```

```
  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err
 := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and
 context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
```

```
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp);
 err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
```

```
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId",
 fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err !=
 nil {
   return err
  }
  defer httpRsp.Body.Close()
```

```
 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *licensesRESTClient)
 List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
```

```
 }
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, "", err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.Filter != nil {
  params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
 }
 if req != nil && req.MaxResults != nil {
  params.Add("maxResults",
fmt.Sprintf("%v", req.GetMaxResults()))
 }
 if req != nil && req.OrderBy != nil {
  params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
 }
 if req != nil && req.PageToken != nil {
  params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
 }
 if req != nil && req.ReturnPartialSuccess != nil {
  params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := append(c.xGoogHeaders, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return
err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
```

```
    return err
   }

   buf, err := io.ReadAll(httpRsp.Body)
   if err != nil {
    return err
   }

   if err := unm.Unmarshal(buf, resp); err != nil {
    return err
   }

   return nil
  }, opts...)
  if e != nil {
   return nil, "", e
  }
  it.Response = resp
  return resp.GetItems(), resp.GetNextPageToken(), nil
 }

 fetch := func(pageSize int, pageToken string) (string, error) {
  items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
  if err != nil {
   return "", err
  }
  it.items = append(it.items, items...)
  return nextPageToken, nil
 }

 it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
 it.pageInfo.MaxSize = int(req.GetMaxResults())
 it.pageInfo.Token = req.GetPageToken()

 return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only
 by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }
```

```
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
```

```
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on
 the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type",
 "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
```

```
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return
nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}
```

1.4599 google-api-go-client 0.188.0

1.4599.1 Available under license :

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* /opt/cola/permits/2102555762_1727001548.0720494/0/google-api-go-client-tar/google-api-go-client.txt

1.4600 semver 7.6.3

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1.4601 inflect 7.3.1

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1.4602 jaraco.text 3.12.1

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1.4603 jackson 2.17.2

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FastDoubleParser

This is a Java port of Daniel Lemire's fast_float project.
This project provides parsers for double, float, BigDecimal and BigInteger values.

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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1.4613 httpcore5-h 5.2.5

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1.4615 docker-credential-helpers 0.8.2

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1.4616 jetty-util-ajax 9.4.54.v20240208

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The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api

* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

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org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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* java.sun.security.ssl

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org.apache.tomcat:tomcat-juli
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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
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module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
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http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the
terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

1.4619 jetty-security 9.4.54.v20240208

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api

* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.4620 jbcrypt 0.2.15

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1.4625 github.com/shurcool/sanitized_anchor_name 1.0.0

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```
package v2_2

// OtherLicense is an Other License Information section of an
// SPDX Document for version 2.2 of the spec.
type OtherLicense struct {
 // 10.1: License Identifier: "LicenseRef-[idstring]"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseIdentifier string `json:"licenseId"`

 // 10.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a
 //              License Identifier assigned
 ExtractedText string `json:"extractedText"`

 // 10.3: License Name: single line of text or "NOASSERTION"
 // Cardinality: conditional (mandatory, one) if license is not
```

```
//            on SPDX License List
LicenseName string `json:"name,omitempty"`

// 10.4: License Cross Reference
// Cardinality: conditional (optional, one or many) if license
//            is not on SPDX License List
LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

//
10.5: License Comment
// Cardinality: optional, one
LicenseComment string `json:"comment,omitempty"`
}
```

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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 //              on SPDX License List
 LicenseIdentifier string `json:"licenseId"`

 // 6.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a
 //              License Identifier assigned
 ExtractedText string `json:"extractedText"`

 // 6.3: License Name: single line of text or "NOASSERTION"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseName string `json:"name,omitempty"`
```

```
// 6.4: License Cross Reference
// Cardinality: conditional (optional, one or many) if license
//              is not on SPDX License List
LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

// 6.5:
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// Cardinality: optional, one
LicenseComment string `json:"comment,omitempty"`
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 // 10.1: License Identifier: "LicenseRef-[idstring]"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseIdentifier string `json:"licenseId"`

 // 10.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a
 //              License Identifier assigned
 ExtractedText string `json:"extractedText"`

 // 10.3: License Name: single line of text or "NOASSERTION"
 // Cardinality: conditional (mandatory, one) if license is not
```

```
//            on SPDX License List
LicenseName string `json:"name,omitempty"`

// 10.4: License Cross Reference
// Cardinality: conditional (optional, one or many) if license
//            is not on SPDX License List
LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

// 10.5: License Comment
// Cardinality:
optional, one
LicenseComment string `json:"comment,omitempty"`
}
```

procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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github.com/pelletier/go-toml:

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localtime.go, localtime_test.go:

Originals:
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Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.
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1.4634 github.com/pelletier/go-toml/v2 2.2.2

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1.4637 prometheus-node-exporter 1.8.2

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1.4638 clientmodel 0.6.1

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1.4640 google-golang-org-grpc 1.65.0

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1.4642 apache-http-server 2.4.62-r0

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```
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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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 *
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    ===============

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

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 Mike Belshe (mbelshe@netscape.com)
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1.4651 opentest4j 1.3.0

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```

Found in path(s):
* /opt/cola/permits/2119986745_1722046376.4373112/0/opentest4j-1-3-0-sources-jar/org/opentest4j/IncompleteExecutionException.java
* /opt/cola/permits/2119986745_1722046376.4373112/0/opentest4j-1-3-0-sources-jar/org/opentest4j/TestSkippedException.java
* /opt/cola/permits/2119986745_1722046376.4373112/0/opentest4j-1-3-0-sources-jar/org/opentest4j/TestAbortedException.java
* /opt/cola/permits/2119986745_1722046376.4373112/0/opentest4j-1-3-0-sources-jar/org/opentest4j/MultipleFailuresError.java
* /opt/cola/permits/2119986745_1722046376.4373112/0/opentest4j-1-3-0-sources-jar/org/opentest4j/AssertionFailedError.java
* /opt/cola/permits/2119986745_1722046376.4373112/0/opentest4j-1-3-0-sources-jar/org/opentest4j/FileInfo.java
* /opt/cola/permits/2119986745_1722046376.4373112/0/opentest4j-1-3-0-sources-jar/org/opentest4j/ValueWrapper.java

1.4652 websocket 1.5.3

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1.4653 jsonassert 1.5.3

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*/
```

Found in path(s):

* /opt/cola/permits/2120665684_1722118374.532773/0/jsonassert-1-5-3-sources-jar/org/json/JSONString.java
* /opt/cola/permits/2120665684_1722118374.532773/0/jsonassert-1-5-3-sources-jar/org/skyscreamer/jsonassert/comparator/CustomComparator.java
* /opt/cola/permits/2120665684_1722118374.532773/0/jsonassert-1-5-3-sources-jar/org/skyscreamer/jsonassert/FieldComparisonFailure.java
* /opt/cola/permits/2120665684_1722118374.532773/0/jsonassert-1-5-3-sources-jar/org/skyscreamer/jsonassert/JSONAssert.java
* /opt/cola/permits/2120665684_1722118374.532773/0/jsonassert-1-5-3-sources-jar/org/skyscreamer/jsonassert/JSONCompareMode.java
* /opt/cola/permits/2120665684_1722118374.532773/0/jsonassert-1-5-3-sources-jar/org/skyscreamer/jsonassert/LocationAwareValueMatcher.java
* /opt/cola/permits/2120665684_1722118374.532773/0/jsonassert-1-5-3-sources-jar/org/skyscreamer/jsonassert/comparator/AbstractComparator.java
* /opt/cola/permits/2120665684_1722118374.532773/0/jsonassert-1-5-3-sources-jar/org/skyscreamer/jsonassert/comparator/DefaultComparator.java
* /opt/cola/permits/2120665684_1722118374.532773/0/jsonassert-1-5-3-sources-jar/org/skyscreamer/jsonassert/ValueMatcher.java
* /opt/cola/permits/2120665684_1722118374.532773/0/jsonassert-1-5-3-sources-jar/org/skyscreamer/jsonassert/ValueMatcherException.java
* /opt/cola/permits/2120665684_1722118374.532773/0/jsonassert-1-5-3-sources-jar/org/skyscreamer/jsonassert/JSONCompareResult.java
* /opt/cola/permits/2120665684_1722118374.532773/0/jsonassert-1-5-3-sources-jar/org/skyscreamer/jsonassert/Customization.java
* /opt/cola/permits/2120665684_1722118374.532773/0/jsonassert-1-5-3-sources-jar/org/skyscreamer/jsonassert/JSONCompare.java
* /opt/cola/permits/2120665684_1722118374.532773/0/jsonassert-1-5-3-sources-jar/org/skyscreamer/jsonassert/ArrayValueMatcher.java
* /opt/cola/permits/2120665684_1722118374.532773/0/jsonassert-1-5-3-sources-jar/org/skyscreamer/jsonassert/RegularExpressionValueMatcher.java
* /opt/cola/permits/2120665684_1722118374.532773/0/jsonassert-1-5-3-sources-jar/org/skyscreamer/jsonassert/comparator/ArraySizeComparator.java
* /opt/cola/permits/2120665684_1722118374.532773/0/jsonassert-1-5-3-sources-jar/org/skyscreamer/jsonassert/comparator/JSONComparator.java
* /opt/cola/permits/2120665684_1722118374.532773/0/jsonassert-1-5-3-sources-jar/org/skyscreamer/jsonassert/JSONParser.java
* /opt/cola/permits/2120665684_1722118374.532773/0/jsonassert-1-5-3-sources-jar/org/skyscreamer/jsonassert/comparator/JSONCompareUtil.java

1.4654 github.com/fxamacker/cbor/v2 2.7.0

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1.4655 github.com/azure/azure-sdk-for-go/sdk/azidentity 1.7.0

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1.4656 googlecloudgolongrunning 0.5.9

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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
```

```
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
```

```
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
}
resp,
err := c.Get(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetIamPolicyLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
}
resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_Insert()
```

```
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
```

```
 resp, err := it.Next()
 if err == iterator.Done {
  break
 }
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp

 // If you need to access the underlying RPC response,
 // you can do so by casting the `Response` as below.
 // Otherwise, remove this line. Only populated after
 // first call to Next(). Not safe for concurrent access.
 _ = it.Response.(*computepb.LicensesListResponse)
}
}

func
 ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically
```

```
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
```

```
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
```

```
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseCodeRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
}
resp,
err := c.TestIamPermissions(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
```

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.34.2
//  protoc        v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)
```

```
const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
```

```
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":            1,
  "WRITER":           2,
  "READER":           3,
```

```
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
```

```
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 if protoimpl.UnsafeEnabled {
  mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission)
 ProtoReflect() protoreflect.Message {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
```

```
  ms.StoreMessageInfo(mi)
 }
 return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role
 != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
```

0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
0x19, 0x67, 0x6f,
0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
0x0b, 0x67,
0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,

```
 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
 0x64,
 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
 0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
 0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
 = []any{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
```

```
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func
 file_google_ai_generativelanguage_v1beta_permission_proto_init() {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 if !protoimpl.UnsafeEnabled {
  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v any, i int) any {
   switch v := v.(*Permission); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
  GoTypes:           file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
  DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
  EnumInfos:
         file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
  MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
 }.Build()
 File_google_ai_generativelanguage_v1beta_permission_proto = out.File
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
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```

```
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// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete          []gax.CallOption
 Get             []gax.CallOption
 GetIamPolicy    []gax.CallOption
 Insert          []gax.CallOption
 List            []gax.CallOption
 SetIamPolicy    []gax.CallOption
```

```
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy:
 []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  Insert: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  List: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
```

```
  SetIamPolicy: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000
 * time.Millisecond),
  },
 }
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}
```

```
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
 for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by
third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
```

```
 list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use
 only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
```

```
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
```

```
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient
 = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params",
 fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "license",
url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
```

```
opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf,
err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}
```

```
// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()),
 "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }
```

```
  if err
 := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and
 context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
```

```
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp);
err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
```

```
 return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.RequestId != nil {
 params.Add("requestId",
fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err !=
nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }
```

```
 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *licensesRESTClient)
 List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

  params := url.Values{}
  if req != nil && req.Filter != nil {
   params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
```

```
 }
 if req != nil && req.MaxResults != nil {
  params.Add("maxResults",
fmt.Sprintf("%v", req.GetMaxResults()))
 }
 if req != nil && req.OrderBy != nil {
  params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
 }
 if req != nil && req.PageToken != nil {
  params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
 }
 if req != nil && req.ReturnPartialSuccess != nil {
  params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := append(c.xGoogHeaders, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return
err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
```

```
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only
 by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
```

```
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
```

```
// TestIamPermissions returns permissions that a caller has on
 the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type",
 "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
```

```
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return
nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}
```

1.4657 googlecloudgocomputemetadata 0.4.0

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
```

```
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
```

```
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
```

```
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp

  // If you need to access the underlying RPC response,
  // you can do so by casting the `Response` as below.
  // Otherwise, remove this line. Only populated after
  // first call to Next(). Not safe for concurrent access.
  _ = it.Response.(*computepb.LicensesListResponse)
 }
}

func
 ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
```

```
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
```

```
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.34.2
//  protoc        v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
```

```
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
```

```
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":            1,
  "WRITER":           2,
  "READER":           3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}
```

```
// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}
```

```
func (x *Permission) Reset() {
 *x = Permission{}
 if protoimpl.UnsafeEnabled {
  mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission)
 ProtoReflect() protoreflect.Message {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}
```

```
func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role
 != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
 0x19, 0x67, 0x6f,
 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
 0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
 0x0b, 0x67,
 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
 0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
 0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
```

```
 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
 0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
 0x64,
 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
 0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
 0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
```

```
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
 = []any{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func
 file_google_ai_generativelanguage_v1beta_permission_proto_init() {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 if !protoimpl.UnsafeEnabled {
  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v any, i int) any {
   switch v := v.(*Permission); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
 type x struct{}
 out := protoimpl.TypeBuilder{
```

```
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
  GoTypes:          file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
  DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
  EnumInfos:
        file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
  MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
 }.Build()
 File_google_ai_generativelanguage_v1beta_permission_proto = out.File
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
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//     https://www.apache.org/licenses/LICENSE-2.0
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// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
```

```
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete             []gax.CallOption
 Get                []gax.CallOption
 GetIamPolicy       []gax.CallOption
 Insert             []gax.CallOption
 List               []gax.CallOption
 SetIamPolicy       []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy:
 []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
```

```
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 Insert: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 List: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
  gax.WithRetry(func() gax.Retryer {
   return gax.OnHTTPCodes(gax.Backoff{
    Initial:    100 * time.Millisecond,
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 SetIamPolicy: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 TestIamPermissions: []gax.CallOption{
  gax.WithTimeout(600000
* time.Millisecond),
 },
}
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
```

```
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
```

who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
 for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
 list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use
 only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with

```
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
```

```
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient
 = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
```

```
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params",
 fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "license",
url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf,
```

```
 err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 op := &Operation{
  &globalOperationsHandle{
   c:       c.operationClient,
   proto:   resp,
   project: req.GetProject(),
  },
 }
 return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()),
 "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
```

```
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err
:= unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
```

```
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and
 context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp);
 err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
```

```
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId",
 fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
```

```
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err !=
nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

func (c *licensesRESTClient)

```
List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
it := &LicenseIterator{}
req = proto.Clone(req).(*computepb.ListLicensesRequest)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
 resp := &computepb.LicensesListResponse{}
 if pageToken != "" {
  req.PageToken = proto.String(pageToken)
 }
 if pageSize > math.MaxInt32 {
  req.MaxResults = proto.Uint32(math.MaxInt32)
 } else if pageSize != 0 {
  req.MaxResults = proto.Uint32(uint32(pageSize))
 }
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, "", err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.Filter != nil {
  params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
 }
 if req != nil && req.MaxResults != nil {
  params.Add("maxResults",
fmt.Sprintf("%v", req.GetMaxResults()))
 }
 if req != nil && req.OrderBy != nil {
  params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
 }
 if req != nil && req.PageToken != nil {
  params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
 }
 if req != nil && req.ReturnPartialSuccess != nil {
  params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := append(c.xGoogHeaders, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
```

```
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return
err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
```

```
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only
 by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
```

```
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on
 the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
```

```
 hds = append(hds, "Content-Type",
 "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return
 nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
```

1.4658 cloud.google.com/go/auth 0.7.0

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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
```

```
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
```

```
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
}
resp,
err := c.Get(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetIamPolicyLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
}
resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_Insert()
```

```
{
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.InsertLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
}
op, err := c.Insert(ctx, req)
if err != nil {
 // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
 // TODO: Handle error.
}
}

func ExampleLicensesClient_List() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template
only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.ListLicensesRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
}
it := c.List(ctx, req)
for {
```

```
 resp, err := it.Next()
 if err == iterator.Done {
  break
 }
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp

 // If you need to access the underlying RPC response,
 // you can do so by casting the `Response` as below.
 // Otherwise, remove this line. Only populated after
 // first call to Next(). Not safe for concurrent access.
 _ = it.Response.(*computepb.LicensesListResponse)
}
}

func
 ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically
```

```
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
```

```
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
```

```
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseCodeRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
}
resp,
err := c.TestIamPermissions(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
```

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```
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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.34.2
//  protoc        v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)
```

```
const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
```

```
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":            1,
  "WRITER":           2,
  "READER":           3,
```

```
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
```

```
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 if protoimpl.UnsafeEnabled {
  mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission)
 ProtoReflect() protoreflect.Message {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
```

```
  ms.StoreMessageInfo(mi)
 }
 return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role
 != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
```

0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
0x19, 0x67, 0x6f,
0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
0x0b, 0x67,
0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,

```
 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
 0x64,
 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
 0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
 0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
 = []any{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
```

```
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func
 file_google_ai_generativelanguage_v1beta_permission_proto_init() {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 if !protoimpl.UnsafeEnabled {
  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v any, i int) any {
   switch v := v.(*Permission); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
  GoTypes:           file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
  DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
  EnumInfos:
         file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
  MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
 }.Build()
 File_google_ai_generativelanguage_v1beta_permission_proto = out.File
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
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```

```
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// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete          []gax.CallOption
 Get             []gax.CallOption
 GetIamPolicy    []gax.CallOption
 Insert          []gax.CallOption
 List            []gax.CallOption
 SetIamPolicy    []gax.CallOption
```

```
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy:
 []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  Insert: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  List: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
```

```
  SetIamPolicy: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000
 * time.Millisecond),
  },
 }
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}
```

```
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
 for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by
third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
```

```
 list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use
 only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
```

```
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
```

```
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient
 = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params",
 fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "license",
url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
```

```
opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf,
err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}
```

```
// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()),
 "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }
```

```
  if err
 := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and
 context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
```

```
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp);
err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
```

```
 return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.RequestId != nil {
 params.Add("requestId",
fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err !=
nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }
```

```
 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *licensesRESTClient)
 List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

  params := url.Values{}
  if req != nil && req.Filter != nil {
   params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
```

```
 }
 if req != nil && req.MaxResults != nil {
  params.Add("maxResults",
fmt.Sprintf("%v", req.GetMaxResults()))
 }
 if req != nil && req.OrderBy != nil {
  params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
 }
 if req != nil && req.PageToken != nil {
  params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
 }
 if req != nil && req.ReturnPartialSuccess != nil {
  params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := append(c.xGoogHeaders, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return
err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
```

```
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only
 by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
```

```
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
```

```
// TestIamPermissions returns permissions that a caller has on
 the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type",
 "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
```

```
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return
nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}
```

1.4659 cloud.google.com/go/kms 1.18.2

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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
```

```
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
```

```
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
```

```
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp

  // If you need to access the underlying RPC response,
  // you can do so by casting the `Response` as below.
  // Otherwise, remove this line. Only populated after
  // first call to Next(). Not safe for concurrent access.
  _ = it.Response.(*computepb.LicensesListResponse)
 }
}

func
 ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
```

```
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
```

```
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

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```
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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.34.2
//  protoc        v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
```

```
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
```

```
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":            1,
  "WRITER":           2,
  "READER":           3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}
```

```
// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}
```

```
func (x *Permission) Reset() {
 *x = Permission{}
 if protoimpl.UnsafeEnabled {
  mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission)
 ProtoReflect() protoreflect.Message {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}
```

```
func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role
 != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
 0x19, 0x67, 0x6f,
 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
 0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
 0x0b, 0x67,
 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
 0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
 0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
```

```
 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
 0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
 0x64,
 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
 0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
 0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
```

```
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
 = []any{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func
 file_google_ai_generativelanguage_v1beta_permission_proto_init() {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 if !protoimpl.UnsafeEnabled {
  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v any, i int) any {
   switch v := v.(*Permission); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
 type x struct{}
 out := protoimpl.TypeBuilder{
```

```
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
  GoTypes:          file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
  DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
  EnumInfos:
        file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
  MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
 }.Build()
 File_google_ai_generativelanguage_v1beta_permission_proto = out.File
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
```

```
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete             []gax.CallOption
 Get                []gax.CallOption
 GetIamPolicy       []gax.CallOption
 Insert             []gax.CallOption
 List               []gax.CallOption
 SetIamPolicy       []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy:
 []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
```

```
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 Insert: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 List: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
  gax.WithRetry(func() gax.Retryer {
   return gax.OnHTTPCodes(gax.Backoff{
    Initial:    100 * time.Millisecond,
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 SetIamPolicy: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 TestIamPermissions: []gax.CallOption{
  gax.WithTimeout(600000
* time.Millisecond),
 },
}
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
```

```
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
```

who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
 for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
 list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use
 only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with

```
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
```

```
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient
 = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
```

```
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params",
 fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "license",
url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf,
```

```
 err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 op := &Operation{
  &globalOperationsHandle{
   c:       c.operationClient,
   proto:   resp,
   project: req.GetProject(),
  },
 }
 return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()),
 "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
```

```
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err
:= unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
```

```
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and
 context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp);
 err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
```

```
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId",
 fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
```

```
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err !=
nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

func (c *licensesRESTClient)

```
List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
it := &LicenseIterator{}
req = proto.Clone(req).(*computepb.ListLicensesRequest)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
 resp := &computepb.LicensesListResponse{}
 if pageToken != "" {
  req.PageToken = proto.String(pageToken)
 }
 if pageSize > math.MaxInt32 {
  req.MaxResults = proto.Uint32(math.MaxInt32)
 } else if pageSize != 0 {
  req.MaxResults = proto.Uint32(uint32(pageSize))
 }
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, "", err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.Filter != nil {
  params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
 }
 if req != nil && req.MaxResults != nil {
  params.Add("maxResults",
fmt.Sprintf("%v", req.GetMaxResults()))
 }
 if req != nil && req.OrderBy != nil {
  params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
 }
 if req != nil && req.PageToken != nil {
  params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
 }
 if req != nil && req.ReturnPartialSuccess != nil {
  params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := append(c.xGoogHeaders, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
```

```
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return
err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
```

```
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only
 by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
```

```
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on
 the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
```

```
 hds = append(hds, "Content-Type",
 "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return
 nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
```

1.4660 google-golang-org-api 0.188.0

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1.4661 googlecloudgoiam 1.1.10

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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
```

```
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
```

```
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetIamPolicyLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
}
resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_Insert()
{
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.InsertLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
}
op, err := c.Insert(ctx, req)
if err != nil {
 // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
 // TODO: Handle error.
}
```

```
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp

  // If you need to access the underlying RPC response,
  // you can do so by casting the `Response` as below.
  // Otherwise, remove this line. Only populated after
  // first call to Next(). Not safe for concurrent access.
  _ = it.Response.(*computepb.LicensesListResponse)
 }
}

func
 ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
```

```
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
```

```
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.34.2
//  protoc        v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
```

```
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
```

```
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":            1,
  "WRITER":           2,
  "READER":           3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
```

```
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}
```

```
func (x *Permission) Reset() {
 *x = Permission{}
 if protoimpl.UnsafeEnabled {
  mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission)
 ProtoReflect() protoreflect.Message {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
```

```
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role
 != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
 0x19, 0x67, 0x6f,
 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
 0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
 0x0b, 0x67,
 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
 0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
 0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
```

```
 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
 0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
 0x64,
 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
 0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
 0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
```

```
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
 = []any{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func
 file_google_ai_generativelanguage_v1beta_permission_proto_init() {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 if !protoimpl.UnsafeEnabled {
  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v any, i int) any {
   switch v := v.(*Permission); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
```

```
  GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
  RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
  NumEnums:      2,
  NumMessages:   1,
  NumExtensions: 0,
  NumServices:   0,
 },
 GoTypes:          file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
 DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
 EnumInfos:
       file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
 MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1beta_permission_proto = out.File
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
```

```
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy:
 []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
```

```
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 Insert: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 List: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
  gax.WithRetry(func() gax.Retryer {
   return gax.OnHTTPCodes(gax.Backoff{
    Initial:    100 * time.Millisecond,
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 SetIamPolicy: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 TestIamPermissions: []gax.CallOption{
  gax.WithTimeout(600000
* time.Millisecond),
 },
}
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}
```

```
// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
```

```
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
 for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by
third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
 list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use
 only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
```

```
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}
```

```
func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient
 = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
```

```
if err != nil {
 return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

params := url.Values{}
if req != nil && req.RequestId != nil {
 params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params",
fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "license",
url.QueryEscape(req.GetLicense()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf,
err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
```

```
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()),
 "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
```

```
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err
:= unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }
```

```
baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and
context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp);
err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
```

```
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId",
 fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
```

```
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err !=
nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient)
 List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
```

```
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
 resp := &computepb.LicensesListResponse{}
 if pageToken != "" {
  req.PageToken = proto.String(pageToken)
 }
 if pageSize > math.MaxInt32 {
  req.MaxResults = proto.Uint32(math.MaxInt32)
 } else if pageSize != 0 {
  req.MaxResults = proto.Uint32(uint32(pageSize))
 }
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, "", err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.Filter != nil {
  params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
 }
 if req != nil && req.MaxResults != nil {
  params.Add("maxResults",
fmt.Sprintf("%v", req.GetMaxResults()))
 }
 if req != nil && req.OrderBy != nil {
  params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
 }
 if req != nil && req.PageToken != nil {
  params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
 }
 if req != nil && req.ReturnPartialSuccess != nil {
  params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := append(c.xGoogHeaders, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
```

```
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return
err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
```

```
resource is intended for use only
 by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
```

```
  return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on
 the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type",
 "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
```

```
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return
 nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
```

1.4662 google.golang.org/genproto/googleapis/rpc

0.0.0-20240708141625-4ad9e859172b

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1.4663 github.com/cyphar/filepath-securejoin 0.3.1

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1.4664 github.com/letsencrypt/boulder 0.0.0-20240418210053-89b07f4543e0

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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localtime.go, localtime_test.go:

Originals:
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Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.4674 github.com/containers/ocicrypt 1.2.0

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1.4675 aws-sdk-go-v2 1.30.3

1.4675.1 Available under license :

```
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
     - name: Checkout scancode
       uses: actions/checkout@v2
       with:
         repository: nexB/scancode-toolkit
         path: scancode-toolkit
         fetch-depth: 1
     - name: Set up Python ${{ matrix.python-version }}
        uses: actions/setup-python@v2
       with:
         python-version: ${{ matrix.python-version }}
     # ScanCode
     - name: Self-configure scancode
       working-directory: ./scancode-toolkit
       run: ./scancode --help
     - name: Run Scan code on target
       run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
     - name: Run Scan code on pr ref
       run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
```

```
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
CreateLicense
 Initialize stack step
  RegisterServiceMetadata
  legacyEndpointContextSetter
  SetLogger
  OperationInputValidation
 Serialize stack step
  setOperationInput
  ResolveEndpoint
  OperationSerializer
 Build stack step
  ClientRequestID
  ComputeContentLength
  UserAgent
  AddTimeOffsetMiddleware
  RecursionDetection
 Finalize stack step
  ResolveAuthScheme
  GetIdentity
  ResolveEndpointV2
  disableHTTPS
  ComputePayloadHash
  Retry
  RetryMetricsHeader
  setLegacyContextSigningOptions
  Signing
 Deserialize stack step
  AddRawResponseToMetadata
  ErrorCloseResponseBody
  CloseResponseBody
  ResponseErrorWrapper
  RequestIDRetriever
  OperationDeserializer
  AddTimeOffsetMiddleware
  RecordResponseTiming
  RequestResponseLogger
ListReceivedLicenses
 Initialize stack step
  RegisterServiceMetadata
  legacyEndpointContextSetter
  SetLogger
 Serialize stack step
  setOperationInput
```

```
  ResolveEndpoint
  OperationSerializer
 Build stack step
  ClientRequestID
  ComputeContentLength
  UserAgent
  AddTimeOffsetMiddleware
  RecursionDetection
 Finalize stack step
  ResolveAuthScheme
  GetIdentity
  ResolveEndpointV2
  disableHTTPS
  ComputePayloadHash
  Retry
  RetryMetricsHeader
  setLegacyContextSigningOptions
  Signing
 Deserialize stack step
  AddRawResponseToMetadata
  ErrorCloseResponseBody
  CloseResponseBody
  ResponseErrorWrapper
  RequestIDRetriever
  OperationDeserializer
  AddTimeOffsetMiddleware
  RecordResponseTiming
  RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
//
// If the account that created the license is the same that is performing the
// check out, you must specify the account as the beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
```

```
 params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 //
 Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string
```

```
 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the checkout license.
 LicenseArn
 *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
```

```
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack,
options); err != nil {
 return err
}
if err = addClientRequestID(stack); err != nil {
 return err
}
if err = addComputeContentLength(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addComputePayloadSHA256(stack); err != nil {
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addTimeOffsetBuild(stack, c); err != nil {
 return err
}
```

```
 if err = addUserAgentRetryMode(stack,
 options); err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
```

```
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 //
 This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
 // borrow configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
```

```
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //
 // This member is required.
 LicenseName *string

 // Product name.
 //
 // This member is required.
 ProductName *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity *types.DatetimeRange

 // Information about
 the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
```

```
 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if
 err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = addClientRequestID(stack); err != nil {
  return err
 }
 if err = addComputeContentLength(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = addComputePayloadSHA256(stack); err != nil {
  return err
 }
 if err = addRetry(stack, options); err != nil {
  return err
 }
 if err = addRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = addRecordResponseTiming(stack); err != nil {
  return err
 }
```

```
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return
 err
 }
 if err = addTimeOffsetBuild(stack, c); err != nil {
  return err
 }
 if err = addUserAgentRetryMode(stack, options); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
```

```
  OperationName:
 "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 //
 The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string
```

```
 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "DisassociateLicense");
 err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = addClientRequestID(stack); err != nil {
  return err
 }
 if err = addComputeContentLength(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
```

```
 }
 if err = addComputePayloadSHA256(stack); err != nil {
  return err
 }
 if err = addRetry(stack, options); err != nil {
  return err
 }
 if err = addRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = addRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil
 {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addTimeOffsetBuild(stack, c); err != nil {
  return err
 }
 if err = addUserAgentRetryMode(stack, options); err != nil {
  return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata
 {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "DisassociateLicense",
 }
}
CheckoutLicense
 Initialize stack step
  RegisterServiceMetadata
  legacyEndpointContextSetter
  SetLogger
  OperationInputValidation
 Serialize stack step
  setOperationInput
  ResolveEndpoint
  OperationSerializer
 Build stack step
  ClientRequestID
  ComputeContentLength
  UserAgent
  AddTimeOffsetMiddleware
  RecursionDetection
 Finalize stack step
  ResolveAuthScheme
  GetIdentity
  ResolveEndpointV2
  disableHTTPS
  ComputePayloadHash
  Retry
  RetryMetricsHeader
  setLegacyContextSigningOptions
  Signing
 Deserialize stack step
  AddRawResponseToMetadata
  ErrorCloseResponseBody
  CloseResponseBody
```

ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger
DisassociateLicense
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
AddTimeOffsetMiddleware
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger
CheckoutBorrowLicense
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation

Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
AddTimeOffsetMiddleware
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger
AssociateLicense
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
AddTimeOffsetMiddleware
RecursionDetection
Finalize stack step
ResolveAuthScheme

```
  GetIdentity
  ResolveEndpointV2
  disableHTTPS
  ComputePayloadHash
  Retry
  RetryMetricsHeader
  setLegacyContextSigningOptions
  Signing
 Deserialize stack step
  AddRawResponseToMetadata
  ErrorCloseResponseBody
  CloseResponseBody
  ResponseErrorWrapper
  RequestIDRetriever
  OperationDeserializer
  AddTimeOffsetMiddleware
  RecordResponseTiming
  RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //   - ProductSKU
 //
 //   - Status
 //
 //
   - Fingerprint
 //
 //   - IssuerName
 //
 //   - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
```

```
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{},
middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = addClientRequestID(stack); err != nil {
 return err
}
if err = addComputeContentLength(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addComputePayloadSHA256(stack); err != nil {
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err
= smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addTimeOffsetBuild(stack, c); err != nil {
  return err
 }
 if err = addUserAgentRetryMode(stack, options); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "ListReceivedLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
```

```
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version *string

 noSmithyDocumentSerde
}

type
 GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = addClientRequestID(stack); err
 != nil {
  return err
 }
 if err = addComputeContentLength(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = addComputePayloadSHA256(stack); err != nil {
  return err
 }
 if err = addRetry(stack, options); err != nil {
  return err
 }
 if err = addRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = addRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addTimeOffsetBuild(stack, c); err != nil {
  return err
 }
 if err = addUserAgentRetryMode(stack, options); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack);
 err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "GetLicense",
 }
}
```

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. To upgrade, you must use
// ENTERPRISE for the licenseType , and pass in a valid Grafana Labs token for the
// grafanaToken . Upgrading to Grafana Enterprise incurs additional fees. For more
// information, see [Upgrade a workspace to Grafana Enterprise].
//
// [Upgrade a workspace to Grafana Enterprise]: https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-
Grafana-Enterprise.html
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx,
 "AssociateLicense", params, optFns, c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // Amazon Managed Grafana workspaces no longer support Grafana Enterprise free
 // trials.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
```

```
 //
 // This member is required.
 WorkspaceId *string

 // A token from Grafana Labs that ties your Amazon Web Services account with a
 // Grafana Labs account. For more information, see [Link your account with Grafana Labs].
 //
 // [Link your account with Grafana Labs]: https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-
Grafana-Enterprise.html#AMG-workspace-register-enterprise
 GrafanaToken *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput
 struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack,
```

```
options); err != nil {
 return err
}
if err = addClientRequestID(stack); err != nil {
 return err
}
if err = addComputeContentLength(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addComputePayloadSHA256(stack); err != nil {
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addTimeOffsetBuild(stack, c); err != nil {
 return err
}
if err = addUserAgentRetryMode(stack,
options); err != nil {
 return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
```

```
 return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "AssociateLicense",
 }
}
ListLicenses
 Initialize stack step
  RegisterServiceMetadata
  legacyEndpointContextSetter
  SetLogger
 Serialize stack step
  setOperationInput
  ResolveEndpoint
  OperationSerializer
 Build stack step
  ClientRequestID
  ComputeContentLength
  UserAgent
  AddTimeOffsetMiddleware
  RecursionDetection
 Finalize stack step
  ResolveAuthScheme
  GetIdentity
  ResolveEndpointV2
  disableHTTPS
```

ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger
AWS SDK for Go
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{
"smithy": "2.0",
"shapes": {
"com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
"type": "integer"
},
"com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
"type": "long"
},
"com.amazonaws.licensemanagerlinuxsubscriptions#DeregisterSubscriptionProvider": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#DeregisterSubscriptionProviderRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#DeregisterSubscriptionProviderResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ResourceNotFoundException"
},

{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Remove a third-party subscription provider from the Bring Your Own License (BYOL) subscriptions \n\t\t\tregistered to your account.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/DeregisterSubscriptionProvider"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#DeregisterSubscriptionProviderRequest": {
        "type": "structure",
        "members": {
            "SubscriptionProviderArn": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the subscription provider resource to deregister.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#DeregisterSubscriptionProviderResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The type of name to filter by.</p>"
                }
            },
            "Values": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
                "traits": {
```

"smithy.api#documentation": " One or more values for the name to filter by. "
}
},
"Operator": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
"traits": {
"smithy.api#documentation": " An operator for filtering results. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter object that is used to return more specific results from a describe operation.\n Filters can be used to match a set of resources by specific criteria. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetRegisteredSubscriptionProvider": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetRegisteredSubscriptionProviderRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetRegisteredSubscriptionProviderResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Get details for a Bring Your Own License (BYOL) subscription that's registered to your account. ",

"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/GetRegisteredSubscriptionProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetRegisteredSubscriptionProviderRequest": {
"type": "structure",
"members": {
"SubscriptionProviderArn": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
"traits": {
"smithy.api#documentation":
" The Amazon Resource Name (ARN) of the BYOL registration resource to get details for. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetRegisteredSubscriptionProviderResponse": {
"type": "structure",
"members": {
"SubscriptionProviderArn": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) for the BYOL registration
resource specified in the request. "
}
},
"SubscriptionProviderSource": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSource",

"traits": {
"smithy.api#documentation": " The subscription provider for the BYOL registration resource
specified \n\t\t\tin the request. "
}
},
"SecretArn": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SecretArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the third-party access
secret stored in Secrets Manager for the BYOL \n\t\t\tregistration resource specified in the request. "
}

```
            },
            "SubscriptionProviderStatus": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderStatus",
                "traits": {
                    "smithy.api#documentation": "<p>The status of the Linux subscription provider access token from the
last \n\t\t\tsuccessful subscription data request.</p>"
                }
            },
            "SubscriptionProviderStatusMessage": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The detailed message from your subscription provider token
status.</p>"
                }
            },
            "LastSuccessfulDataRetrievalTime": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The timestamp from the last time License Manager retrieved
subscription details \n\t\t\tfrom your registered third-party Linux subscription provider.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
        "type": "operation",
        "input": {
            "target":
 "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
```

"smithy.api#documentation": " Lists the Linux subscriptions service settings for your account. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/GetServiceSettings"

},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " Lists
the settings defined for Linux subscriptions discovery. The settings include if\n Organizations integration has been enabled, and which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation": " A message which details the Linux subscriptions service settings current status. "
}
},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",

"traits": {
"smithy.api#documentation": " The Region in which License Manager displays the aggregated data for Linux\n subscriptions. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
"type": "structure",
"members": {
"AmiId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The AMI ID used to launch the instance. "
}
},
"InstanceID": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The instance ID of the resource. "
}
},
"InstanceType": {
"target": "smithy.api#String",
"traits":
{
"smithy.api#documentation": " The instance type of the resource. "
}
},
"AccountID": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The account ID which owns the instance. "
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of the instance. "
}
},
"Region": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The Region the instance is running in. "
}
},
"UsageOperation": {

"target": "smithy.api#String",

"traits": {
"smithy.api#documentation": " The usage operation of the instance. For more information, see For more information, see\n Usage\n operation values in the License Manager User Guide. "
}
},
"ProductCode": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",
"traits": {
"smithy.api#documentation": " The product code for the instance. For more information, see Usage\n operation values in the License Manager User Guide . "
}
},
"LastUpdatedTime": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The time in which the last discovery updated the instance details. "
}
},
"SubscriptionName": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the license subscription that the instance uses. "
}
},
"OsVersion": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The operating system software version that runs on your instance. "
}
},
"SubscriptionProviderCreateTime": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The timestamp when you registered the third-party Linux subscription \n\t\t\tprovider for the subscription that the instance uses. "
}
},
"SubscriptionProviderUpdateTime": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The timestamp from the last time that the instance synced with the

registered \n\t\t\tthird-party Linux subscription provider. "
}
},
"DualSubscription": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Indicates that you have two different license subscriptions for \n\t\t\tthe same software on your instance. "
}
},
"RegisteredWithSubscriptionProvider": {
"target": "smithy.api#String",
"traits": {

"smithy.api#documentation": " Indicates that your instance uses a BYOL license subscription from \n\t\t\ta third-party Linux subscription provider that you've registered with License Manager. "
}
}
},
"traits": {
"smithy.api#documentation": " Details discovered information about a running instance using Linux subscriptions. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation":
" An exception occurred with the service. ",
"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
"type": "service",
"version": "2018-05-10",
"operations": [
{

```
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#DeregisterSubscriptionProvider"
    },
    {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetRegisteredSubscriptionProvider"
    },
    {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
    },
    {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
    },
    {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
    },
    {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListRegisteredSubscriptionProviders"
    },
    {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListTagsForResource"
    },
    {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#RegisterSubscriptionProvider"
    },
    {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#TagResource"
    },
    {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UntagResource"
    },
    {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
    }
],
"traits": {
    "aws.api#service": {
        "sdkId": "License Manager Linux Subscriptions",
        "arnNamespace": "license-manager-linux-subscriptions",
        "cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
    },
    "aws.auth#sigv4": {
        "name": "license-manager-linux-subscriptions"
    },
    "aws.protocols#restJson1": {},
    "smithy.api#cors": {
        "additionalAllowedHeaders": [
            "*",
            "content-type",
            "x-amz-content-sha256",
```

"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"
]
},
"smithy.api#documentation": " With License Manager,
you can discover and track your commercial Linux subscriptions on running\n Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager Linux Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}
},
"rules": [
{
"conditions": [

```
                {
                  "fn": "isSet",
                  "argv": [
                    {
                      "ref": "Endpoint"
                    }
                  ]
                }
              ],
              "rules": [
                {
                  "conditions": [
                    {
                      "fn": "booleanEquals",
                      "argv": [
                        {
                          "ref": "UseFIPS"
                        },
                        true
                      ]
                    }

        ],
                  "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
                  "type": "error"
                },
                {
                  "conditions": [],
                  "rules": [
                    {
                      "conditions": [
                        {
                          "fn": "booleanEquals",
                          "argv": [
                            {
                              "ref": "UseDualStack"
                            },
                            true
                          ]

}
                      ],
                      "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                      "type": "error"
                    },
                    {
                      "conditions": [],
                      "endpoint": {
```

```
                    "url": {
                        "ref": "Endpoint"
                    },
                    "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
            }
        ],
        "type": "tree"

    }
    ],
    "type": "tree"
},
{
    "conditions": [],
    "rules": [
        {
            "conditions": [
                {
                    "fn": "isSet",
                    "argv": [
                        {
                            "ref": "Region"
                        }
                    ]
                }
            ],
            "rules": [
                {
                    "conditions": [
                        {

    "fn": "aws.partition",
                            "argv": [
                                {
                                    "ref": "Region"
                                }
                            ],
                            "assign": "PartitionResult"
                        }
                    ],
                    "rules": [
                        {
                            "conditions": [
                                {
                                    "fn": "booleanEquals",
```

"argv": [
{

"ref": "UseFIPS"
},
true
]
},
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseDualStack"
},
true
]
}

],
"rules": [
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
true,
{
"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"

},
"supportsFIPS"
]
}
]
},
{
"fn": "booleanEquals",
"argv": [
true,
{
"fn": "getAttr",
"argv": [

{
"ref": "PartitionResult"

```
                                                    },
                                                    "supportsDualStack"
                                                ]
                                            }
                                        ]
                                    }
                                ],
                                "rules": [
                                    {
                                        "conditions": [],

        "rules": [
                                            {
                                                "conditions": [],
                                                "endpoint": {
                                                    "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                                    "properties": {},
                                                    "headers": {}
                                                },
                                                "type": "endpoint"
                                            }
                                        ],

                        "type": "tree"
                                    }
                                ],
                                "type": "tree"
                            },
                            {
                                "conditions": [],
                                "error": "FIPS and DualStack are enabled, but this partition does not support
one or both",
                                "type": "error"
                            }
                        ],
                        "type": "tree"
                    },
                    {

            "conditions": [
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    {
                                        "ref": "UseFIPS"
                                    },
                                    true
```

```
                    ]
                }
            ],
            "rules": [
                {
                    "conditions": [
                        {

        "fn": "booleanEquals",
                            "argv": [
                                {
                                    "fn": "getAttr",
                                    "argv": [
                                        {
                                            "ref": "PartitionResult"
                                        },
                                        "supportsFIPS"
                                    ]
                                },
                                true

                    ]
                        }
                    ],
                    "rules": [
                        {
                            "conditions": [],
                            "rules": [
                                {
                                    "conditions": [],
                                    "endpoint": {
                                        "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",

  "properties": {},
                                        "headers": {}
                                    },
                                    "type": "endpoint"
                                }
                            ],
                            "type": "tree"
                        }
                    ],
                    "type": "tree"
                },
                {
                    "conditions": [],
                    "error": "FIPS is enabled
```

but this partition does not support FIPS",
"type": "error"
}
],
"type": "tree"
},
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseDualStack"
},
true

]
}
],
"rules": [
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
true,
{
"fn": "getAttr",
"argv": [
{

"ref": "PartitionResult"
},
"supportsDualStack"
]
}
]
}
],
"rules": [
{
"conditions": [],
"rules": [

{
"conditions": [],
"endpoint": {
"url": "https://license-manager-linux-

subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
],
"type": "tree"

}
],
"type": "tree"
},
{
"conditions": [],
"error": "DualStack is enabled but this partition does not support DualStack",
"type": "error"
}
],
"type": "tree"
},
{
"conditions": [],
"rules": [
{
"conditions": [],
"endpoint": {
"url": "https://license-manager-linux-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
],
"type": "tree"
}
],
"type": "tree"
}
],
"type": "tree"
},
{
"conditions": [],
"error": "Invalid Configuration: Missing Region",
"type": "error"
}

```
            ],
            "type": "tree"
        }
    ]
},
"smithy.rules#endpointTests": {
    "testCases": [
        {
            "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"

    }
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
                }
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": false
            }
        },
        {

     "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
                }
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": true
            }
        },
```

{
"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
}

},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{

"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
}

```
      },
      "params": {
        "Region": "cn-north-1",
        "UseFIPS": false,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
        }
      },
      "params": {
        "Region": "cn-north-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {

"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
        }
      },
      "params": {
        "Region": "us-gov-east-1",
        "UseFIPS": true,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.amazonaws.com"
        }

     },
      "params": {
        "Region": "us-gov-east-1",
        "UseFIPS": true,
        "UseDualStack": false
      }
    },
```

{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{

"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {

"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",

"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack
enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS":
false,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
}
},

"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{

"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}

},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with region not set and fips disabled and dualstack

disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{

"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips disabled and dualstack enabled",
"expect": {
"error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
},
"params": {

"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true,
"Endpoint": "https://example.com"
}
},
{
"documentation": "Missing region",
"expect": {
"error": "Invalid Configuration: Missing Region"
}
}
],
"version": "1.0"
}
}

```
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
      "type": "string",
      "traits": {
        "smithy.api#enum": [
          {
            "name": "Enabled",
            "value": "Enabled",
            "documentation": "Enabled LinuxSubscriptionsDiscovery"

     },
          {
            "name": "Disabled",
            "value": "Disabled",
            "documentation": "Disabled LinuxSubscriptionsDiscovery"
          }
        ]
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
      "type": "structure",
      "members": {
        "SourceRegions": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
          "traits": {
            "smithy.api#documentation": "<p>The Regions in which to discover data for Linux
subscriptions.</p>",
            "smithy.api#required": {}
          }
        },
        "OrganizationIntegration": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
          "traits": {
            "smithy.api#documentation":
 "<p>Details if you have enabled resource discovery across your accounts in Organizations.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Lists the settings defined for discovering Linux subscriptions.</p>"
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
      },
```

"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},

{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the running Amazon EC2 instances that were discovered with commercial Linux\n subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/ListLinuxSubscriptionInstances"
},
"smithy.api#idempotent": {},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "Instances"
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest": {
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results by your specified criteria. \n \tFor example, you can specify <code>Region</code> in the <code>Name</code>, with the \n \t<code>contains</code> operator to list all subscriptions that match a partial string in the \n \t<code>Value</code>, such as <code>us-west</code>. \n For each filter, you can specify one of the following values for the <code>Name</code> key \n \tto streamline results: \n \n \n \n <code>AccountID</code>\n \n \n \n \n <code>AmiID</code>\n \n \n \n \n <code>DualSubscription</code>\n \n \n \n \n <code>InstanceID</code>\n \n \n \n \n

```
<code>InstanceType</code>\n            </p>\n          </li>\n          <li>\n            <p>\n
<code>ProductCode</code>\n            </p>\n          </li>\n          <li>\n            <p>\n
<code>Region</code>\n            </p>\n          </li>\n          <li>\n            <p>\n
<code>Status</code>\n            </p>\n          </li>\n          <li>\n            <p>\n
<code>UsageOperation</code>\n            </p>\n          </li>\n        </ul>\n        <p>For each filter, you can use
one of the following <code>Operator</code>
 values to \n  \t\tdefine the behavior of the filter:</p>\n        <ul>\n          <li>\n            <p>\n
<code>contains</code>\n            </p>\n          </li>\n          <li>\n            <p>\n
<code>equals</code>\n            </p>\n          </li>\n          <li>\n            <p>\n
<code>Notequal</code>\n            </p>\n          </li>\n        </ul>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>The maximum items to return in a request.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>A token to specify where to
 start paginating. This \n\tis the nextToken from a previously truncated response.</p>",
                    "smithy.api#length": {
                        "min": 1,
                        "max": 16384
                    }
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
        "type": "structure",
        "members": {
            "Instances": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
                "traits": {
                    "smithy.api#documentation": "<p>An array that contains instance objects.</p>"
                }
            },
            "NextToken": {

        "target": "smithy.api#String",
                "traits": {
```

"smithy.api#documentation": " The next token used for paginated responses. When this \n\tfield isn't empty, there are additional elements that the service hasn't \n\tincluded in this request. Use this token with the next request to retrieve \n\tadditional objects. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the Linux subscriptions that have been discovered. If you have linked your\n organization, the returned results will include data aggregated across your accounts in\n Organizations. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/ListLinuxSubscriptions"
},
"smithy.api#idempotent": {},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",

"items": "Subscriptions"
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
"type": "structure",
"members": {

"Filters": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. For example, you can filter by the name of\n <code>Subscription</code> with an optional operator to see subscriptions that match,\n partially match, or don't match a certain subscription's name. \n The valid names for this filter are: \n \n \n \n <code>Subscription</code>\n \n \n \n The valid Operators for this filter are: \n \n \n \n <code>contains</code>\n \n \n \n \n <code>equals</code>\n \n \n \n \n <code>Notequal</code>\n \n \n "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " The maximum items to return in a request. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " A token to specify where to start paginating. This \n\tis the nextToken from a previously truncated response. ",
"smithy.api#length": {
"min": 1,
"max": 16384
}
}
}
},
"traits": {
"smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if parameters in request increases."
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
"type": "structure",
"members": {
"Subscriptions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
"traits": {
"smithy.api#documentation": " An array that contains subscription objects. "
}
},
"NextToken": {

"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The next token used for paginated responses. When this \n\tfield isn't empty, there are additional elements that the service hasn't \n\tincluded in this request. Use this token with the next request to retrieve \n\tadditional objects. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListRegisteredSubscriptionProviders": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListRegisteredSubscriptionProvidersRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListRegisteredSubscriptionProvidersResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"

},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " List Bring Your Own License (BYOL) subscription registration resources for your account. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/ListRegisteredSubscriptionProviders"
},
"smithy.api#idempotent": {},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "RegisteredSubscriptionProviders"
}
}

```
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListRegisteredSubscriptionProvidersRequest": {
        "type": "structure",
        "members": {
            "SubscriptionProviderSources": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSourceList",
                "traits": {
                    "smithy.api#documentation": "<p>To filter your results, specify which subscription providers to
return \n\t\t\tin the list.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>The maximum items to return in a request.</p>",
                    "smithy.api#range": {
                        "min": 1,
                        "max": 100
                    }
                }

  },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>A token to specify where to start paginating. This \n\tis the
nextToken from a previously truncated response.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListRegisteredSubscriptionProvidersResponse": {
        "type": "structure",
        "members": {
            "RegisteredSubscriptionProviders": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#RegisteredSubscriptionProviderList",
                "traits": {
                    "smithy.api#documentation": "<p>The list of BYOL registration resources that fit the criteria
\n\t\t\tyou specified in the request.</p>"
                }
            },

           "NextToken": {
                "target": "smithy.api#String",
                "traits": {
```

"smithy.api#documentation": " The next token used for paginated responses. When this \n\tfield isn't empty, there are additional elements that the service hasn't \n\tincluded in this request. Use this token with the next request to retrieve \n\tadditional objects. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListTagsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListTagsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListTagsForResourceResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " List the metadata tags that are assigned to the \n\t\t\tspecified Amazon Web Services resource. ",
"smithy.api#http": {
"method": "GET",
"uri": "/tags/{resourceArn}"
},
"smithy.api#readonly": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListTagsForResourceRequest": {
"type": "structure",
"members": {
"resourceArn": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the resource for which to list metadata tags. ",

```
                "smithy.api#httpLabel": {},
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListTagsForResourceResponse": {
    "type": "structure",
    "members": {
        "tags": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Tags",
            "traits": {
                "smithy.api#documentation": "<p>The metadata tags for the requested resource.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "name": "EQUAL",
                "value": "Equal",
                "documentation": "Equal operator"
            },
            {
                "name": "NOT_EQUAL",
                "value": "NotEqual",
                "documentation": "Not equal operator"
            },
            {
                "name": "CONTAINS",
                "value": "Contains",
                "documentation": "Contains operator"
            }
        ],
        "smithy.api#length": {
            "min": 1,
            "max": 20
        }
    }
```

```
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration":
{
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "name": "Enabled",
                    "value": "Enabled",
                    "documentation": "Enabled OrganizationIntegration"
                },
                {
                    "name": "Disabled",
                    "value": "Disabled",
                    "documentation": "Disabled OrganizationIntegration"
                }
            ]
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
        "type": "list",
        "member": {
            "target": "smithy.api#String"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#RegisterSubscriptionProvider": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#RegisterSubscriptionProviderRequest"
         },
        "output": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#RegisterSubscriptionProviderResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Register the supported third-party subscription provider for your Bring
Your Own License (BYOL) subscription.</p>",
            "smithy.api#http": {
```

"code": 200,
"method": "POST",
"uri": "/subscription/RegisterSubscriptionProvider"

},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#RegisterSubscriptionProviderRequest": {
"type": "structure",
"members": {
"SubscriptionProviderSource": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSource",
"traits": {
"smithy.api#documentation": " The supported Linux subscription provider to register. ",
"smithy.api#required": {}
}
},
"SecretArn": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SecretArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the secret where you've stored your subscription provider's access token. For \n\t\t\tRHEL subscriptions managed through the Red Hat Subscription Manager (RHSM), the secret contains \n\t\t\tyour Red Hat Offline token. ",
"smithy.api#required": {}
}
},
"Tags": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Tags",
"traits": {
"smithy.api#documentation": " The metadata tags to assign to your registered Linux subscription provider \n\t\t\tresource. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#RegisterSubscriptionProviderResponse": {
"type": "structure",
"members": {
"SubscriptionProviderSource": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSource",
"traits": {
"smithy.api#documentation": " The Linux subscription provider that you registered. "
}

```
            },
            "SubscriptionProviderArn": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the Linux subscription
provider resource that you registered.</p>"
                }
            },
            "SubscriptionProviderStatus": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates the status of the registration action for the Linux
subscription provider \n\t\t\tthat you requested.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#RegisteredSubscriptionProvider":
 {
        "type": "structure",
        "members": {
            "SubscriptionProviderArn": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the Linux subscription
provider resource that you registered.</p>"
                }
            },
            "SubscriptionProviderSource": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSource",
                "traits": {
                    "smithy.api#documentation": "<p>A supported third-party Linux subscription provider. License
Manager currently supports \n\t\t\tRed Hat subscriptions.</p>"
                }
            },
            "SecretArn": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SecretArn",
                 "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the Secrets Manager secret
that stores your registered Linux subscription provider \n\t\t\taccess token. For RHEL account subscriptions, this is
the offline token.</p>"
                }
            },
            "SubscriptionProviderStatus": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderStatus",
```

"traits": {
"smithy.api#documentation": " Indicates the status of your registered Linux subscription provider access token \n\t\t\tfrom the last time License Manager retrieved subscription data. For RHEL account subscriptions, \n\t\t\tthis is the status of the offline token. "
}
},
"SubscriptionProviderStatusMessage": {
"target": "smithy.api#String",
"traits":
{
"smithy.api#documentation": " A detailed message that's associated with your BYOL subscription \n\t\t\tprovider token status. "
}
},
"LastSuccessfulDataRetrievalTime": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The timestamp from the last time that License Manager accessed third-party subscription data \n\t\t\tfor your account from your registered Linux subscription provider. "
}
}
},
"traits": {
"smithy.api#documentation": " A third-party provider for operating system (OS) platform software and license \n\t\t\tsubscriptions, such as Red Hat. When you register a third-party Linux subscription \n\t\t\tprovider, License Manager can get subscription data from the registered provider. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#RegisteredSubscriptionProviderList":
{
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#RegisteredSubscriptionProvider"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ResourceNotFoundException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " Unable to find the requested Amazon Web Services resource. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#SecretArn": {

"type": "string",
"traits": {
"smithy.api#pattern": "^arn:[a-z0-9-\\.]{1,63}:secretsmanager:[a-z0-9-\\.]{0,63}:[a-z0-9-\\.]{0,63}:secret:[^/]{1,1023}$"

}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "InProgress",
"value": "InProgress",
"documentation": "InProgress status"
},
{
"name": "Completed",
"value": "Completed",
"documentation": "Completed status"
},
{
"name": "Successful",
"value": "Successful",
"documentation": "Successful status"
},
{
"name": "Failed",
"value": "Failed",
"documentation": "Failed status"
}
]
}
},

"com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
"type": "list",
"member": {
"target": "smithy.api#String",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 100
}
}
},
"traits": {
"smithy.api#length": {

"min": 1,
"max": 100
},
"smithy.api#uniqueItems": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
"type": "map",
"key": {
"target": "smithy.api#String"
},
"value": {
"target": "smithy.api#String"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
"type": "structure",
"members": {
"Name":
{
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the subscription. "
}
},
"Type": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own\n Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the\n Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS. "
}
},
"InstanceCount": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
"traits": {
"smithy.api#documentation": " The total amount of running instances using this subscription. "
}
}
},
"traits": {
"smithy.api#documentation": " An object which details a discovered Linux subscription. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
"type": "list",

"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn": {
"type": "string",
"traits": {
"smithy.api#pattern": "^arn:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,510}/[a-z0-9-\\.]{1,510}$"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSource": {
"type": "string",
"traits": {
"smithy.api#enum": [

{
"name": "RedHat",
"value": "RedHat",
"documentation": "RedHat subscription provider namespace"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSourceList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSource"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderStatus": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "ACTIVE",
"value": "ACTIVE",
"documentation": "ACTIVE status"
},
{
"name": "INVALID",
"value": "INVALID",

"documentation": "INVALID status"
},
{
"name": "PENDING",
"value": "PENDING",

"documentation": "PENDING status"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#TagKeyList": {
"type": "list",
"member": {
"target": "smithy.api#String"
},
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#sensitive": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#TagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#TagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#TagResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Add metadata tags to the specified Amazon Web Services resource. ",
"smithy.api#http": {
"method": "PUT",
"uri": "/tags/{resourceArn}"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#TagResourceRequest": {

"type": "structure",
"members":
{
"resourceArn": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the Amazon Web Services resource to which to add the specified \n\t\t\tmetadata tags. ",
"smithy.api#httpLabel": {},
"smithy.api#required": {}
}
},
"tags": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Tags",
"traits": {
"smithy.api#documentation": " The metadata tags to assign to the Amazon Web Services resource. Tags are \n\t\t\tformatted as key value pairs. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}

},
"com.amazonaws.licensemanagerlinuxsubscriptions#TagResourceResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Tags": {
"type": "map",
"key": {
"target": "smithy.api#String"
},
"value": {
"target": "smithy.api#String"
},
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#sensitive": {}
}

```
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
      "type": "structure",
      "members": {
        "message": {
          "target": "smithy.api#String"
        }
      },
      "traits": {
        "smithy.api#documentation":
 "<p>The request was denied due to request throttling.</p>",
        "smithy.api#error": "client"
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#UntagResource": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UntagResourceRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UntagResourceResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
        },
        {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ResourceNotFoundException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Remove one or more metadata tag from the specified Amazon Web
Services resource.</p>",
         "smithy.api#http": {
          "method": "DELETE",
          "uri": "/tags/{resourceArn}"
        },
        "smithy.api#idempotent": {}
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#UntagResourceRequest": {
      "type": "structure",
      "members": {
        "resourceArn": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
          "traits": {
            "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the Amazon Web Services
resource to remove the metadata tags from.</p>",
```

"smithy.api#httpLabel": {},
"smithy.api#required": {}
}
},
"tagKeys": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#TagKeyList",
"traits": {

"smithy.api#documentation": " A list of metadata tag keys to remove from the requested \n\t\t\tresource. ",
"smithy.api#httpQuery": "tagKeys",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UntagResourceResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"

},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates the service settings for Linux subscriptions. ",

"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/UpdateServiceSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Describes if the discovery of Linux subscriptions is enabled. ",
"smithy.api#required": {}
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from. ",
"smithy.api#required": {}
}
},
"AllowUpdate": {
"target": "smithy.api#Boolean",
"traits": {
"smithy.api#documentation": " Describes if updates are allowed to the service settings for Linux subscriptions. If you\n allow updates, you can aggregate Linux subscription data in more than one home Region. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},
"LinuxSubscriptionsDiscoverySettings": {

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation": " A message which details the Linux subscriptions service settings current status. "
}

},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Region in which License Manager displays the aggregated data for Linux\n subscriptions. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The provided input is not valid. Try your request again. ",
"smithy.api#error": "client"
}
}
}
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

```
import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the license.
 //
 // This member is required.
 SourceVersion
 *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string
```

```
 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err !=
 nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = addClientRequestID(stack); err != nil {
  return err
 }
 if err = addComputeContentLength(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = addComputePayloadSHA256(stack); err != nil {
  return err
 }
 if err = addRetry(stack, options); err != nil {
  return err
 }
```

```
 if err = addRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = addRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addTimeOffsetBuild(stack, c); err != nil
 {
  return err
 }
 if err = addUserAgentRetryMode(stack, options); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
```

```
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "DeleteLicense",
 }
}
DeleteLicense
 Initialize stack step
  RegisterServiceMetadata
  legacyEndpointContextSetter
  SetLogger
  OperationInputValidation
 Serialize stack step
  setOperationInput
  ResolveEndpoint
  OperationSerializer
 Build stack step
  ClientRequestID
  ComputeContentLength
  UserAgent
  AddTimeOffsetMiddleware
  RecursionDetection
 Finalize stack step
  ResolveAuthScheme
  GetIdentity
  ResolveEndpointV2
  disableHTTPS
  ComputePayloadHash
  Retry
  RetryMetricsHeader
  setLegacyContextSigningOptions
  Signing
 Deserialize stack step
  AddRawResponseToMetadata
  ErrorCloseResponseBody
  CloseResponseBody
  ResponseErrorWrapper
  RequestIDRetriever
  OperationDeserializer
  AddTimeOffsetMiddleware
  RecordResponseTiming
  RequestResponseLogger
GetLicense
 Initialize stack step
  RegisterServiceMetadata
```

```
  legacyEndpointContextSetter
  SetLogger
  OperationInputValidation
 Serialize stack step
  setOperationInput
  ResolveEndpoint
  OperationSerializer
 Build stack step
  ClientRequestID
  ComputeContentLength
  UserAgent
  AddTimeOffsetMiddleware
  RecursionDetection
 Finalize stack step
  ResolveAuthScheme
  GetIdentity
  ResolveEndpointV2
  disableHTTPS
  ComputePayloadHash
  Retry
  RetryMetricsHeader
  setLegacyContextSigningOptions
  Signing
 Deserialize stack step
  AddRawResponseToMetadata
  ErrorCloseResponseBody
  CloseResponseBody
  ResponseErrorWrapper
  RequestIDRetriever
  OperationDeserializer
  AddTimeOffsetMiddleware
  RecordResponseTiming
  RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
```

```
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 //
 the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see [RFC 7518 Digital Signature with RSASSA-PSS].
 //
 // [RFC 7518 Digital Signature with RSASSA-PSS]: https://tools.ietf.org/html/rfc7518#section-3.5
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
```

```
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
```

```
if err != nil {
 return
err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutBorrowLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = addClientRequestID(stack); err != nil {
 return err
}
if err = addComputeContentLength(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addComputePayloadSHA256(stack); err != nil {
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return
err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
```

```
 if err = addTimeOffsetBuild(stack, c); err != nil {
  return err
 }
 if err = addUserAgentRetryMode(stack, options); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutBorrowLicense",
 }
}
```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary *string

 noSmithyDocumentSerde
}

type
 CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = addClientRequestID(stack); err != nil {
  return err
 }
 if
```

```
err = addComputeContentLength(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addComputePayloadSHA256(stack); err != nil {
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addTimeOffsetBuild(stack, c); err != nil {
 return err
}
if err = addUserAgentRetryMode(stack, options); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil
{
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "CheckInLicense",
 }
}
```

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```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //   - Beneficiary
 //
 //   - ProductSKU
 //
 //   - Fingerprint
 //
 //   - Status
 Filters
 []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}
```

```
type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack,
 options, "ListLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = addClientRequestID(stack); err != nil {
  return err
 }
 if err = addComputeContentLength(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = addComputePayloadSHA256(stack); err != nil {
```

```
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addTimeOffsetBuild(stack, c); err != nil {
 return err
}
if err = addUserAgentRetryMode(stack, options); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = addRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
 return err
```

```
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:
     ServiceID,
  OperationName: "ListLicenses",
 }
}
CheckInLicense
 Initialize stack step
  RegisterServiceMetadata
  legacyEndpointContextSetter
  SetLogger
  OperationInputValidation
 Serialize stack step
  setOperationInput
  ResolveEndpoint
  OperationSerializer
 Build stack step
  ClientRequestID
  ComputeContentLength
  UserAgent
  AddTimeOffsetMiddleware
  RecursionDetection
 Finalize stack step
  ResolveAuthScheme
  GetIdentity
  ResolveEndpointV2
  disableHTTPS
  ComputePayloadHash
  Retry
  RetryMetricsHeader
  setLegacyContextSigningOptions
  Signing
 Deserialize stack step
  AddRawResponseToMetadata
  ErrorCloseResponseBody
  CloseResponseBody
  ResponseErrorWrapper
  RequestIDRetriever
  OperationDeserializer
  AddTimeOffsetMiddleware
  RecordResponseTiming
  RequestResponseLogger
```

```
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException": {
      "type": "structure",
      "members": {
        "message": {
          "target": "smithy.api#String"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>You don't have sufficient access to perform this action.</p>",
        "smithy.api#error": "client"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
      "type": "structure",
      "members": {
        "DirectoryId": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The directory ID for an Active Directory identity provider.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation":
"<p>Details about an Active Directory identity provider.</p>"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUser": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
```

```
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Associates the user to an EC2 instance to utilize user-based
subscriptions.</p>\n        <note>\n            <p>Your estimated bill for charges on the number of users and related
costs will take 48\n        hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing
status) in Amazon Web Services Billing. For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n
        monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n        </note>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/AssociateUser"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the
 EC2 instance, which provides user-based subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
```

```
            "traits": {
                "smithy.api#documentation": "<p>The identity provider of the user.</p>",
                "smithy.api#required": {}
            }
        },
        "Domain": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The domain name of the user.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse": {
    "type": "structure",
    "members": {
        "InstanceUserSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
            "traits": {
                "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#BoxInteger": {
    "type": "integer"
},
"com.amazonaws.licensemanagerusersubscriptions#ConflictException": {
    "type": "structure",
    "members": {
        "message": {
            "target": "smithy.api#String"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>The request couldn't be completed because it conflicted with the current
state of the\n      resource.</p>",
        "smithy.api#error": "server"
    }
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider":
 {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest"
    },
    "output": {
```

"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deregisters the identity provider from providing user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/DeregisterIdentityProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",

```
            "traits": {
                "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse": {
    "type": "structure",
    "members": {
        "IdentityProviderSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
            "traits": {
                "smithy.api#documentation":
"<p>Metadata that describes the results of an identity provider operation.</p>",
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUser": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
         },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
```

"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Disassociates the user from an EC2 instance providing user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/DisassociateUser"
},
"smithy.api#idempotent": {}
}

},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
},
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse": {
        "type": "structure",
        "members": {
            "InstanceUserSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },

"com.amazonaws.licensemanagerusersubscriptions#Filter": {
        "type": "structure",
        "members": {
            "Attribute": {
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                "traits": {
                    "smithy.api#documentation": "<p>The name of an attribute to use as a filter.</p>"
                }
            },
            "Operation": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The type of search (For example, eq, geq, leq)</p>"
                }
            },
            "Value": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Value of the filter.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A filter name and value pair that is used
to return more specific results from a describe\n      operation. Filters can be used to match a set of resources by
specific criteria, such as tags,\n      attributes, or IDs.</p>"
        }
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    "com.amazonaws.licensemanagerusersubscriptions#FilterList": {
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        "member": {
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"com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
"type": "union",
"members": {
"ActiveDirectoryIdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
"traits": {
"smithy.api#documentation": " An object that details an Active Directory identity provider. "
}
}
},
"traits": {
"smithy.api#documentation":
" Details about an identity provider. "
}
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"com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Settings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
"traits": {
"smithy.api#documentation": " An object that details the registered identity providers product
related configuration\n settings such as the subnets to provision VPC endpoints. ",
"smithy.api#required":
{}
}
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"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of an identity provider. ",
"smithy.api#required": {}
}
},

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            "FailureMessage": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The failure message associated with an identity provider.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation":
 "<p>Describes an identity provider.</p>"
        }
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    "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary"
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            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status
 of an EC2 instance resource.</p>",
                    "smithy.api#required": {}
                }
            },
            "Products": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>A list of provided user-based subscription products.</p>",
                    "smithy.api#required": {}
                }
            },
            "LastStatusCheckDate": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The date of the last status check.</p>"
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```
            }
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          "StatusMessage": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The status message for an EC2 instance.</p>"
            }

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        "traits": {
          "smithy.api#documentation": "<p>Describes an EC2 instance providing user-based subscriptions.</p>"
        }
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      "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList": {
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        "member": {
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      "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary": {
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        "members": {
          "Username": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
              "smithy.api#required": {}
            }
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          "InstanceId": {
            "target": "smithy.api#String",
            "traits":
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              "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
              "smithy.api#required": {}
            }
          },
          "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
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              "smithy.api#required": {}
            }
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          "Status": {
            "target": "smithy.api#String",
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"traits": {
"smithy.api#documentation": " The status of a user associated with an EC2 instance. ",
"smithy.api#required": {}
}
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"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for users of an EC2 instance. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"AssociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was associated with an EC2 instance. "
}
},
"DisassociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was disassociated from an EC2 instance. "
}
}

},
"traits": {
"smithy.api#documentation": " Describes users of an EC2 instance providing user-based subscriptions. "
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"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
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"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
}
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"com.amazonaws.licensemanagerusersubscriptions#InternalServerException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}

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        },
        "traits": {
            "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
            "smithy.api#error": "server"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
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            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
            },
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                "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"

},
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
            },
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                "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
            }
        ],
        "traits": {
            "aws.api#service": {
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"sdkId": "License Manager User Subscriptions",
"arnNamespace": "license-manager-user-subscriptions",
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"aws.auth#sigv4": {
"name": "license-manager-user-subscriptions"
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"aws.protocols#restJson1": {},
"smithy.api#cors": {
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"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",
"x-api-key",
"authorization",
"x-amz-date",
"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"

]
},
"smithy.api#documentation": " With License Manager, you can create user-based subscriptions to utilize licensed software with\n a per user subscription fee on Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager User Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
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"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
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"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,

"documentation": "When true, use the dual-stack
endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
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"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the
configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
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"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
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"ref": "Endpoint"
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"argv": [
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},

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                    "argv": [
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                    "argv": [
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                        "argv": [
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```

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                                    "argv": [
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                                        "supportsDualStack"
                                    ]
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                            ]
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                    "rules": [
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fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                "properties": {},
                                "headers": {}
                            },
                            "type": "endpoint"
                        }
                    ]
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                {
                    "conditions": [],
                    "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
                     "type": "error"
                }
            ]
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            "conditions": [
```

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                              "argv": [
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                                  "ref": "PartitionResult"
                                },
                                "supportsFIPS"

                          ]
                            }
                          ]
                        }
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"type": "error"
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"ref": "PartitionResult"
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"supportsDualStack"
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"rules": [
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"properties": {},

"headers": {}
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"type": "endpoint"
}
]
},
{
"conditions": [],
"error": "DualStack is enabled but this partition does
not support DualStack",
"type": "error"
}
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"conditions": [],
"endpoint": {
"url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
"properties": {},
"headers": {}
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"type": "endpoint"
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"error": "Invalid Configuration: Missing Region",
"type": "error"
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"smithy.rules#endpointTests": {
"testCases": [
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
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"params": {
"Region": "us-east-1",
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"UseDualStack": true
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"documentation":
"For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {
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"params": {
"Region": "us-east-1",
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"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
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"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false
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{
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FIPS enabled and DualStack enabled",
"expect": {

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}
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"params": {
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"UseFIPS": true,
"UseDualStack": true
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"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
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}
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"params": {
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}
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"UseDualStack": true
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"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
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"endpoint": {
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},
"params": {
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"UseFIPS": true,
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"params": {
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"UseDualStack":
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                }
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                "UseDualStack": true
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              "expect": {
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                }
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              "params": {
                "Region": "us-isob-east-1",
                "UseFIPS": true,
                "UseDualStack": false
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            {
              "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
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              "params": {
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                "UseFIPS": false,
                "UseDualStack": true
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            }
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                }
            },
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                "UseFIPS": false,
                "UseDualStack": false
            }
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            "expect": {
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            "params": {
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                "UseFIPS": false,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
        },
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                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
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            "expect": {
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            },
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                "expect": {
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                }
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    }
  }
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {
  "type": "operation",
  "input": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
  },
  "output": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
  },
  "errors": [
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
```

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            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the identity providers for user-based subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/ListIdentityProviders"
            },
            "smithy.api#paginated":
{
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "IdentityProviderSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest": {
        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse":
```

```
{
        "type": "structure",
        "members": {
          "IdentityProviderSummaries": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the list identity providers operation.</p>",
              "smithy.api#required": {}
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListInstances": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest"
         },
        "output": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
           },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
          }
```

```
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the EC2 instances providing user-based subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/instance/ListInstances"
            },
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "InstanceSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest": {
        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                 "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse": {
        "type":
 "structure",
        "members": {
            "InstanceSummaries": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the list instances operation.</p>"
```

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                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
             }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the user-based subscription products available from an identity
provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/ListProductSubscriptions"
```

```
            },
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "ProductUserSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest": {
        "type": "structure",
        "members": {
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name
of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
                "traits": {

 "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those that match
one or\n      more sets of key-value pairs that you specify.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
```

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse": {
      "type": "structure",
      "members": {
        "ProductUserSummaries": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList",
          "traits": {
            "smithy.api#documentation": "<p>Metadata that describes the list product subscriptions
operation.</p>"
          }
        },

     "NextToken": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
          "target":
 "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
```

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            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists user associations for an identity provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/ListUserAssociations"
            },
            "smithy.api#paginated":
{
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "InstanceUserSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest": {
        "type": "structure",
        "members": {
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity
provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
                "traits": {
```

"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse": {
"type": "structure",
"members": {
"InstanceUserSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list user association operation. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary": {
"type": "structure",
"members": {

"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider of the user. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},

"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}

},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of a product for a user. ",
"smithy.api#required": {}
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for a product for a user. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"SubscriptionStartDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The
start date of a subscription. "
}
},
"SubscriptionEndDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The end date of a subscription. "
}
}
},
"traits": {
"smithy.api#documentation": " The summary of the user-based subscription products for a user. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
"type": "list",
"member": {

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        "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
    }
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
     },
    "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
         },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Registers an identity provider for user-based subscriptions.</p>",
        "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/identity-provider/RegisterIdentityProvider"
        },
        "smithy.api#idempotent": {}
    }
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest": {
    "type": "structure",
    "members": {
        "IdentityProvider": {
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"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Settings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings such as the\n subnets to provision VPC endpoints. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the results of an identity provider operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The resource couldn't be found. ",
"smithy.api#error": "client",
"smithy.api#httpError": 404

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        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
        "type": "string",

    "traits": {
            "smithy.api#length": {
                "min": 5,
                "max": 200
            },
            "smithy.api#pattern": "^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request failed because a service quota is exceeded.</p>",
            "smithy.api#error": "client"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#Settings": {
        "type": "structure",
        "members": {
            "Subnets": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
                "traits": {
                    "smithy.api#documentation":
 "<p>The subnets defined for the registered identity provider.</p>",
                    "smithy.api#length": {
                        "min": 1
                    },
                    "smithy.api#required": {}
                }
            },
            "SecurityGroupId": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
                "traits": {
                    "smithy.api#documentation": "<p>A security group ID that allows inbound TCP port 1688
communication between resources in\n      your VPC and the VPC endpoint for activation servers.</p>",
                    "smithy.api#required": {}
                }
            }
        },
```

"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings such as the\n subnets to provision VPC endpoints, and the security group ID that
is associated with the VPC\n endpoints. The security group should permit inbound TCP port 1688 communication from resources\n in the VPC. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Starts a product subscription for a user with the specified identity provider. \n <note>\n Your estimated bill for charges on the number of users and related costs will take 48\n hours to appear for billing periods that haven't closed (marked as Pending billing status) in Amazon Web Services Billing.
For more information, see Viewing your\n monthly charges in the Amazon Web Services Billing User Guide. \n </note>",
"smithy.api#http": {
"code": 200,

```
            "method": "POST",
            "uri": "/user/StartProductSubscription"
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
        "type": "structure",
        "members": {
          "Username": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
              "smithy.api#required": {}
            }
          },
          "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
             "traits": {
              "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
              "smithy.api#required": {}
            }
          },
          "Product": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
              "smithy.api#required": {}
            }
          },
          "Domain": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The domain name of the user.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse": {
        "type": "structure",
         "members": {
          "ProductUserSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the start product subscription
operation.</p>",
              "smithy.api#required": {}
            }
          }
```

```
            }
        },
        "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
            "type": "operation",
            "input": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"
            },
            "output": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
            },
            "errors": [
                {
                    "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"

    },
                {
                    "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
                },
                {
                    "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
                },
                {
                    "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
                },
                {
                    "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
                },
                {
                    "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
                },
                {
                    "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
                }
            ],
            "traits": {
                "smithy.api#documentation": "<p>Stops a product subscription for a user with the specified identity
provider.</p>",
                 "smithy.api#http": {
                    "code": 200,
                    "method": "POST",
                    "uri": "/user/StopProductSubscription"
                }
            }
        },
        "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
            "type": "structure",
            "members": {
                "Username": {
```

"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required":
{}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse": {
"type": "structure",
"members": {
"ProductUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
"traits": {
"smithy.api#documentation":
" Metadata that describes the start product subscription operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StringList": {
"type": "list",
"member": {
"target": "smithy.api#String"
}
},

"com.amazonaws.licensemanagerusersubscriptions#Subnet": {
"type": "string",
"traits": {
"smithy.api#pattern": "subnet-[a-z0-9]{8,17}"
}
},
"com.amazonaws.licensemanagerusersubscriptions#Subnets": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnet"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ThrottlingException": {
"type": "structure",
"members": {
"message": {

"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request was denied because of request throttling. Retry the request. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
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"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
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"errors": [
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"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
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"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
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"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
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{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
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"traits": {
"smithy.api#documentation": " Updates additional product configuration settings for the registered identity\n provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/UpdateIdentityProviderSettings"
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"smithy.api#idempotent": {}
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"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest": {
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"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#required": {}
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"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
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"UpdateSettings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings",
"traits": {
"smithy.api#documentation": " Updates the registered identity providers product related configuration settings. You can\n update any combination of settings in a single operation such as the: \n \n \n Subnets which you want to add to provision VPC endpoints. \n \n \n Subnets which you want to remove the VPC endpoints from. \n \n \n Security group ID which permits traffic to the VPC endpoints. \n \n ",
"smithy.api#required": {}
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"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
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"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#required": {}
}

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             "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
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                    "smithy.api#documentation": "<p>The ID of one or more subnets in which License Manager will
create a VPC endpoint for products that\n      require connectivity to activation servers.</p>",
                    "smithy.api#required": {}
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            "RemoveSubnets": {
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                "traits": {
                    "smithy.api#documentation": "<p>The ID of one or more subnets to remove.</p>",
                    "smithy.api#required": {}
                }
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            "SecurityGroupId": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
                "traits": {
                    "smithy.api#documentation": "<p>A security group ID
 that allows inbound TCP port 1688 communication between resources in\n      your VPC and the VPC endpoints for
activation servers.</p>"
                }
            }
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        "traits": {
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settings such as\n      the subnets to provision VPC endpoints.</p>"
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    "com.amazonaws.licensemanagerusersubscriptions#ValidationException": {
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        "members": {
            "message": {
                "target": "smithy.api#String"
            }
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        "traits": {
            "smithy.api#documentation": "<p>A parameter is not valid.</p>",
            "smithy.api#error": "client"
        }
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        "id": "HttpResponseCodeSemantics",
        "namespace": "*"
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        "id": "PaginatedTrait",
        "namespace": "*"
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        "namespace": "*"
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        "namespace": "*"
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        "namespace": "*"
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  "shapes": {
    "com.amazonaws.licensemanager#AWSLicenseManager": {
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          "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
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"target": "com.amazonaws.licensemanager#CheckoutLicense"
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"target": "com.amazonaws.licensemanager#CreateGrant"
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"target": "com.amazonaws.licensemanager#CreateLicense"
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"target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
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"target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
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"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
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"target": "com.amazonaws.licensemanager#CreateLicenseVersion"
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"target": "com.amazonaws.licensemanager#CreateToken"
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"target": "com.amazonaws.licensemanager#DeleteGrant"
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"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
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"target": "com.amazonaws.licensemanager#DeleteToken"
},
{
"target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

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"target": "com.amazonaws.licensemanager#GetAccessToken"
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"target": "com.amazonaws.licensemanager#GetGrant"
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"target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
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"target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
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"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
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"target": "com.amazonaws.licensemanager#GetLicenseUsage"
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"target": "com.amazonaws.licensemanager#GetServiceSettings"
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"target": "com.amazonaws.licensemanager#ListDistributedGrants"
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"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
},
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"target": "com.amazonaws.licensemanager#ListLicenseConfigurations"
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"target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
},
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"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
},
{
"target": "com.amazonaws.licensemanager#ListLicenses"
},
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"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
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{

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      "target": "com.amazonaws.licensemanager#ListReceivedGrants"
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      "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganization"
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      "target": "com.amazonaws.licensemanager#ListReceivedLicenses"
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      "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization"
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      "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
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      "target": "com.amazonaws.licensemanager#RejectGrant"
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    },
    {
      "target": "com.amazonaws.licensemanager#UntagResource"
    },
    {
      "target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
    },
    {
      "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
    },
    {
      "target": "com.amazonaws.licensemanager#UpdateServiceSettings"
    }
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"traits": {
"aws.api#service": {
"sdkId": "License Manager",
"arnNamespace": "license-manager",
"cloudFormationName": "LicenseManager",
"cloudTrailEventSource": "licensemanager.amazonaws.com",
"endpointPrefix": "license-manager"
},
"aws.auth#sigv4": {
"name": "license-manager"
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"aws.protocols#awsJson1_1": {},
"smithy.api#documentation": " License Manager makes it easier to manage licenses from software vendors across multiple \n Amazon Web Services accounts and on-premises servers. ",
"smithy.api#title": "AWS License Manager",
"smithy.api#xmlNamespace": {
"uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
},
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
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"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
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"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",

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                    "type": "error"
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                                },
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                        }
                    ],
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                    "type": "error"
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"UseFIPS"

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                    true
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                        ]
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                                "argv": [
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"supportsDualStack"

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                    "properties": {},
                    "headers": {}

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                "type": "endpoint"
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        "conditions": [],
        "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
        "type": "error"
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                    "argv": [
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                    "ref": "PartitionResult"
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                ]
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            ]
          }
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        "rules": [

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              "headers": {}
            },
            "type": "endpoint"
          }
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      {
        "conditions": [],
        "error": "FIPS is enabled but this
partition does not support FIPS",
        "type": "error"
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    ]
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                            "argv": [
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                                "ref": "PartitionResult"
                              },

"supportsDualStack"
                            ]
                          }
                        ]
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manager.{Region}.{PartitionResult#dualStackDnsSuffix}",
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                    "type": "error"
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    "type": "error"
}
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"smithy.rules#endpointTests": {
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            "expect": {
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                    "url": "https://license-manager.af-south-1.amazonaws.com"
                }
            },
            "params": {
                "Region": "af-south-1",
                "UseFIPS": false,
                "UseDualStack": false
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            "documentation": "For region ap-east-1 with FIPS disabled and DualStack disabled",
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            "params": {
                "Region": "ap-east-1",
                "UseFIPS": false,
                "UseDualStack": false
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            "expect": {
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            "UseDualStack": false
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        "documentation": "For region ap-northeast-2 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.ap-northeast-2.amazonaws.com"
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        "params": {
            "Region": "ap-northeast-2",
            "UseFIPS": false,
            "UseDualStack": false
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        "expect": {
            "endpoint": {
                "url": "https://license-manager.ap-northeast-3.amazonaws.com"
            }
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        "params": {
            "Region": "ap-northeast-3",
            "UseFIPS": false,
            "UseDualStack": false
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    {
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        "expect": {
            "endpoint": {
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        "params": {
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            "UseFIPS": false,
            "UseDualStack": false
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          "params": {
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            "UseDualStack": false
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          "documentation": "For region ap-southeast-2 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.ap-southeast-2.amazonaws.com"
            }
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          "params": {
            "Region": "ap-southeast-2",
            "UseFIPS": false,
            "UseDualStack": false
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        },
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"documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
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            "endpoint": {
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          "params": {
            "Region": "ap-southeast-3",
            "UseFIPS": false,
            "UseDualStack": false
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"UseDualStack": false
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disabled and DualStack disabled",
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"params": {
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"UseDualStack": false
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"url": "https://license-manager.eu-south-1.amazonaws.com"
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},
"params": {
"Region":
"eu-south-1",
"UseFIPS": false,
"UseDualStack": false
}
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            "endpoint": {
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          "params": {
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            "UseFIPS": false,
            "UseDualStack": false
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          "documentation": "For region eu-west-2 with FIPS disabled and DualStack disabled",
          "expect": {

          "endpoint": {
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          "params": {
            "Region": "eu-west-2",
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            "UseDualStack": false
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"UseDualStack": false
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"params": {
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"url": "https://license-manager.us-east-2.amazonaws.com"
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"params": {
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"UseDualStack": false
}
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"params": {
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"UseDualStack": false
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"params": {

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},
{
"documentation": "For region us-west-2 with FIPS enabled and DualStack disabled",

"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-west-2.amazonaws.com"
}
},
"params": {
"Region": "us-west-2",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,

"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",

"expect": {
"endpoint": {
"url": "https://license-manager.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url":
"https://license-manager.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-northwest-1",
"UseFIPS": false,
"UseDualStack": false

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},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",

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            "UseFIPS": true,
            "UseDualStack": true
        }
    },
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        "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-fips.cn-north-1.amazonaws.com.cn"
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        },
        "params": {
            "Region": "cn-north-1",
            "UseFIPS": true,
            "UseDualStack": false
        }
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    {
        "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.cn-north-1.api.amazonwebservices.com.cn"
            }
        },
        "params": {
            "Region": "cn-north-1",
            "UseFIPS": false,
            "UseDualStack": true
        }
    },

{
        "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.us-gov-east-1.amazonaws.com"
            }
        },
        "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
        "expect": {
            "endpoint": {
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                "url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
              }
            },
            "params": {
              "Region": "us-gov-east-1",
              "UseFIPS": true,
              "UseDualStack": false
            }
          },
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            "documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager.us-gov-west-1.amazonaws.com"
              }
            },
            "params": {
              "Region": "us-gov-west-1",
              "UseFIPS": false,
              "UseDualStack": false
            }
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"For region us-gov-west-1 with FIPS enabled and DualStack disabled",
            "expect": {
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                "url": "https://license-manager-fips.us-gov-west-1.amazonaws.com"
              }
            },
            "params": {
              "Region": "us-gov-west-1",
              "UseFIPS": true,
              "UseDualStack": false
            }
          },
          {
            "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
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                "url": "https://license-manager-fips.us-gov-east-1.api.aws"
              }
            },

      "params": {
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              "UseFIPS": true,
              "UseDualStack": true
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            }
        },
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            "expect": {
                "endpoint": {
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                }
            },
            "params": {
                "Region": "us-gov-east-1",
                "UseFIPS": false,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack
disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
                }
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": true,
                 "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
                }
            },
            "params": {
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"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled
but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},

{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
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"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
}

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                    },

            "params": {
                        "Region": "us-isob-east-1",
                        "UseFIPS": true,
                        "UseDualStack": false
                    }
                },
                {
                    "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
                    "expect": {
                        "error": "DualStack is enabled but this partition does not support DualStack"
                    },
                    "params": {
                        "Region": "us-isob-east-1",
                        "UseFIPS": false,
                        "UseDualStack": true
                    }
                },
                {
                    "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",

    "expect": {
                        "endpoint": {
                            "url": "https://example.com"
                        }
                    },
                    "params": {
                        "Region": "us-east-1",
                        "UseFIPS": false,
                        "UseDualStack": false,
                        "Endpoint": "https://example.com"
                    }
                },
                {
                    "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",
                    "expect": {
                        "endpoint": {
                            "url": "https://example.com"
                        }
                    },
                    "params": {
                        "UseFIPS": false,

        "UseDualStack": false,
                        "Endpoint": "https://example.com"
                    }
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                },
                {
                    "documentation": "For custom endpoint with fips enabled and dualstack disabled",
                    "expect": {
                        "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
                    },
                    "params": {
                        "Region": "us-east-1",
                        "UseFIPS": true,
                        "UseDualStack": false,
                        "Endpoint": "https://example.com"
                    }
                },
                {
                    "documentation": "For custom endpoint with fips disabled and dualstack enabled",
                    "expect": {
                        "error":
"Invalid Configuration: Dualstack and custom endpoint are not supported"
                    },
                    "params": {
                        "Region": "us-east-1",
                        "UseFIPS": false,
                        "UseDualStack": true,
                        "Endpoint": "https://example.com"
                    }
                },
                {
                    "documentation": "Missing region",
                    "expect": {
                        "error": "Invalid Configuration: Missing Region"
                    }
                }
            ],
            "version": "1.0"
        }
    }
},
"com.amazonaws.licensemanager#AcceptGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#AcceptGrantRequest"

},
    "output": {
        "target": "com.amazonaws.licensemanager#AcceptGrantResponse"
    },
    "errors": [
        {
```

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            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"

}
    ],
    "traits": {
        "smithy.api#documentation": "<p>Accepts the specified grant.</p>"
    }
  },
  "com.amazonaws.licensemanager#AcceptGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
  },
  "com.amazonaws.licensemanager#AcceptGrantResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant
```

ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#AccessDeniedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {

"code": "ServiceAccessDenied",
"httpResponseCode": 401
},
"smithy.api#documentation": " Access to resource denied. ",
"smithy.api#error": "client",
"smithy.api#httpError": 401
}
},
"com.amazonaws.licensemanager#ActivationOverrideBehavior": {
"type": "enum",
"members": {
"DISTRIBUTED_GRANTS_ONLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DISTRIBUTED_GRANTS_ONLY"
}
},
"ALL_GRANTS_PERMITTED_BY_ISSUER": {

"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ALL_GRANTS_PERMITTED_BY_ISSUER"
}
}
}
},
"com.amazonaws.licensemanager#AllowedOperation": {

"type": "enum",
"members": {
"CREATE_GRANT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CreateGrant"
}
},
"CHECKOUT_LICENSE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CheckoutLicense"
}
},
"CHECKOUT_BORROW_LICENSE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CheckoutBorrowLicense"
}
},
"CHECK_IN_LICENSE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CheckInLicense"
}
},
"EXTEND_CONSUMPTION_LICENSE":
{
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ExtendConsumptionLicense"
}
},
"LIST_PURCHASED_LICENSES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ListPurchasedLicenses"
}
},

"CREATE_TOKEN": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CreateToken"
}
}
}
},
"com.amazonaws.licensemanager#AllowedOperationList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#AllowedOperation"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max":
7
}
}
},
"com.amazonaws.licensemanager#Arn": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 2048
},
"smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
}
},
"com.amazonaws.licensemanager#ArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
}
},
"com.amazonaws.licensemanager#AuthorizationException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError":

{
"code": "AuthorizationFailure",
"httpResponseCode": 403
},
"smithy.api#documentation": " The Amazon Web Services user account does not have permission to perform the action. Check the IAM\n policy associated with this account. ",
"smithy.api#error": "client",
"smithy.api#httpError": 403
}
},
"com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
"type": "structure",
"members": {
"LastRunTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time that automated discovery last ran. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes automated discovery. "
}
},

"com.amazonaws.licensemanager#Boolean": {
"type": "boolean",
"traits": {
"smithy.api#default": false
}
},
"com.amazonaws.licensemanager#BorrowConfiguration": {
"type": "structure",
"members": {
"AllowEarlyCheckIn": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether early check-ins are allowed. ",
"smithy.api#required": {}
}
},
"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the borrow configuration, in minutes. ",
"smithy.api#required": {}
}
}

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},
        "traits": {
            "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#BoxBoolean": {
        "type": "boolean"
    },
    "com.amazonaws.licensemanager#BoxInteger": {
        "type": "integer"
    },
    "com.amazonaws.licensemanager#BoxLong": {
        "type": "long"
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    "com.amazonaws.licensemanager#CheckInLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"

     },
            {
                "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
```

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            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks in the specified license. Check in a license when it is no longer
in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseRequest":
{
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",
                    "smithy.api#required": {}
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License beneficiary.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicense":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {
                "target":
"com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
        "type": "structure",
        "members":
{
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The license must
use the borrow consumption configuration.</p>",
                    "smithy.api#required": {}
                }
```

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            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements. Partial checkouts are not supported.</p>",
                    "smithy.api#required": {}
                }
            },
            "DigitalSignatureMethod": {
                "target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
                "traits": {
                    "smithy.api#documentation": "<p>Digital signature method. The possible
 value is JSON Web Signature (JWS) algorithm PS384.\n        For more information, see <a
href=\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital Signature with RSASSA-PSS</a>.</p>",
                    "smithy.api#required": {}
                }
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Node ID.</p>"
                }
            },
            "CheckoutMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about constraints.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation":
 "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
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"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},
"EntitlementsAllowed":
{
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " Allowed license entitlements. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"SignedToken": {
"target": "com.amazonaws.licensemanager#SignedToken",
"traits": {
"smithy.api#documentation": " Signed token. "
}
},
"IssuedAt": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout
is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout expires. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about constraints. "
}
}
},

"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target":
"com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks out the specified license. \n <note>\n If the
account that created the license is the same that is performing the check out, you must\n specify the account

as the beneficiary. \n </note>"
  }
},
"com.amazonaws.licensemanager#CheckoutLicenseRequest": {
  "type": "structure",
  "members": {
    "ProductSKU": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": " Product
 SKU. ",
        "smithy.api#required": {}
      }
    },
    "CheckoutType": {
      "target": "com.amazonaws.licensemanager#CheckoutType",
      "traits": {
        "smithy.api#documentation": " Checkout type. ",
        "smithy.api#required": {}
      }
    },
    "KeyFingerprint": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": " Key fingerprint identifying the license. ",
        "smithy.api#required": {}
      }
    },
    "Entitlements": {
      "target": "com.amazonaws.licensemanager#EntitlementDataList",
      "traits": {
        "smithy.api#documentation": " License entitlements. ",

"smithy.api#required": {}
      }
    },
    "ClientToken": {
      "target": "com.amazonaws.licensemanager#ClientToken",
      "traits": {
        "smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request. ",
        "smithy.api#required": {}
      }
    },
    "Beneficiary": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": " License beneficiary. "

```
            }
        },
        "NodeId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
            }
        }
    },
    "traits": {

   "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
    "type": "structure",
    "members": {
        "CheckoutType": {
            "target": "com.amazonaws.licensemanager#CheckoutType",
            "traits": {
                "smithy.api#documentation": "<p>Checkout type.</p>"
            }
        },
        "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License consumption token.</p>"
            }
        },
        "EntitlementsAllowed": {
            "target": "com.amazonaws.licensemanager#EntitlementDataList",
            "traits": {
                "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
            }
        },
         "SignedToken": {
            "target": "com.amazonaws.licensemanager#SignedToken",
            "traits": {
                "smithy.api#documentation": "<p>Signed token.</p>"
            }
        },
        "NodeId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
            }
        },
        "IssuedAt": {
```

"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and
time at which the license checkout expires. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the checkout license. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutType": {
"type": "enum",
"members": {
"PROVISIONAL": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PROVISIONAL"
}
},
"PERPETUAL": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PERPETUAL"
}
}
}
},
"com.amazonaws.licensemanager#ClientRequestToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 36
}
}

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    },
    "com.amazonaws.licensemanager#ClientToken": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 2048
            },
            "smithy.api#pattern": "^\\S+$"
        }
    },
    "com.amazonaws.licensemanager#ConflictException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "ConflictException",
                "httpResponseCode":
409
            },
            "smithy.api#documentation": "<p>There was a conflict processing the request. Try your request
again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 409
        }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummary": {
        "type": "structure",
        "members": {
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
                }
            },
            "ConsumedLicenses": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
                }
            }
        },
```

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"traits": {
            "smithy.api#documentation": "<p>Details about license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
        }
    },
    "com.amazonaws.licensemanager#ConsumptionConfiguration": {
        "type": "structure",
        "members": {
            "RenewType": {
                "target": "com.amazonaws.licensemanager#RenewType",
                "traits": {
                    "smithy.api#documentation": "<p>Renewal frequency.</p>"
                }
            },
            "ProvisionalConfiguration": {
                "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
                 }
            },
            "BorrowConfiguration": {
                "target": "com.amazonaws.licensemanager#BorrowConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
```

```
            {
                "target":
 "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a grant for the specified license. A grant shares the use of
license\n        entitlements with a specific Amazon Web Services account, an organization, or an\n
organizational unit (OU). For more
 information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-
licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantRequest": {
        "type": "structure",
        "members": {
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>",
                    "smithy.api#required": {}

    }
            },
            "LicenseArn": {
```

"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Principals": {
"target": "com.amazonaws.licensemanager#PrincipalArnList",
"traits": {
"smithy.api#documentation": " The grant principals. You can specify one of the following as an Amazon Resource Name\n (ARN): \n \n \n An Amazon Web Services account, which includes only the account specified. \n \n \n \n \n An organizational unit (OU), which includes all accounts in the OU. \n \n \n \n \n An organization, which will include all accounts across your organization. \n \n ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations for the grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},

"com.amazonaws.licensemanager#CreateGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},

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            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersion":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
             },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
```

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        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified grant. For more information,
see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-
licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersionRequest": {
        "type": "structure",
        "members": {
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",

  "smithy.api#required": {}
                }
            },
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>"
                }
            },
            "AllowedOperations": {
                "target": "com.amazonaws.licensemanager#AllowedOperationList",
                "traits": {
                    "smithy.api#documentation": "<p>Allowed operations for the grant.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                 "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "StatusReason": {
                "target": "com.amazonaws.licensemanager#StatusReasonMessage",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status reason.</p>"
```

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            }
        },
        "SourceVersion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Current version of the grant.</p>"
            }
        },
        "Options": {
            "target": "com.amazonaws.licensemanager#Options",
            "traits": {
                "smithy.api#documentation": "<p>The options specified for the grant.</p>"
            }
        }
    },
     "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CreateGrantVersionResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>New version of the grant.</p>"
            }
        }
    },
    "traits":
{
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicense": {
    "type": "operation",
```

```
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a license.</p>"
    }
},
"com.amazonaws.licensemanager#CreateLicenseConfiguration": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license configuration.</p>\n        <p>A license configuration is an abstraction of a customer license agreement that can be\n        consumed and enforced by License Manager. Components include specifications for the license\n        type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n        Dedicated Instance, Dedicated Host, or all of these), license affinity  to host (how long a \n        license must be associated with a host), and the number of licenses purchased and used.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Description of the license configuration.</p>"
                }
            },
            "LicenseCountingType": {
                "target": "com.amazonaws.licensemanager#LicenseCountingType",
                "traits": {
                    "smithy.api#documentation": "<p>Dimension used to track the license inventory.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
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"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether hard or soft license enforcement is used. Exceeding a hard limit\n blocks the launch of new instances. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules \n vary by dimension, as follows. \n \n \n \n <code>Cores</code> dimension: <code>allowedTenancy</code> |\n <code>licenseAffinityToHost</code> |\n <code>maximumCores</code> | <code>minimumCores</code>\n \n \n \n \n <code>Instances</code> dimension: <code>allowedTenancy</code> | \n <code>maximumCores</code> | <code>minimumCores</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code> |\n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n
\n <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n <code>licenseAffinityToHost</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code>\n \n \n \n \n <code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n <code>honorVcpuOptimization</code> | \n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n The unit for <code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n <code>True</code> and <code>False</code>. "
}
},

"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the license configuration. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "

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            }
          },
          "ProductInformationList": {
            "target": "com.amazonaws.licensemanager#ProductInformationList",
            "traits": {
              "smithy.api#documentation": "<p>Product information.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse":
{
        "type": "structure",
        "members": {
          "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
           },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new license conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {

                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource you are converting
the license type for.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting
from. \n\n        For the structure of the source license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            },
            "DestinationLicenseContext":
 {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting to.
For the structure of the destination license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
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    }
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
    "type": "structure",
    "members": {
        "LicenseConversionTaskId": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",

   "traits": {
                "smithy.api#documentation": "<p>The ID of the created license type conversion task.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
         },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
```

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a report generator. "
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"ReportGeneratorName":
{
"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports to generate. The following report types an be generated: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}

}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " Defines the type of license configuration the report generator tracks. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",

"traits": {
"smithy.api#documentation": " Unique,
case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the new report
generator. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseRequest": {
"type": "structure",
"members": {
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. ",
"smithy.api#required": {}
}

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            },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product
name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product SKU.</p>",
                    "smithy.api#required": {}
                }
            },
            "Issuer": {
                "target": "com.amazonaws.licensemanager#Issuer",
                "traits": {
                    "smithy.api#documentation": "<p>License issuer.</p>",
                    "smithy.api#required": {}
                }
            },
            "HomeRegion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Home Region for the license.</p>",
                    "smithy.api#required": {}

    }
            },
            "Validity": {
                "target": "com.amazonaws.licensemanager#DatetimeRange",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>",
                    "smithy.api#required": {}
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " License beneficiary. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},

```
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseVersion": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
    }
```

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    },
    "com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target":
"com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "LicenseName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License name.</p>",
            "smithy.api#required": {}
          }
        },
        "ProductName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product name.</p>",
            "smithy.api#required": {}
          }
        },
        "Issuer": {
          "target": "com.amazonaws.licensemanager#Issuer",
          "traits":
{
            "smithy.api#documentation": "<p>License issuer.</p>",
            "smithy.api#required": {}
          }
        },
        "HomeRegion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Home Region of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "Validity": {
          "target": "com.amazonaws.licensemanager#DatetimeRange",
          "traits": {
            "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
            "smithy.api#required": {}
          }
```

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            },
            "LicenseMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license.</p>"
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>",
                    "smithy.api#required": {}
                }
            },
            "ConsumptionConfiguration": {
                "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional
configuration for workloads\n         running with continuous connectivity. Choose a borrow configuration for
workloads with offline\n         usage.</p>",
                    "smithy.api#required": {}
                }
            },

   "Status": {
                "target": "com.amazonaws.licensemanager#LicenseStatus",
                "traits": {
                    "smithy.api#documentation": "<p>License status.</p>",
                    "smithy.api#required": {}
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the license.</p>"
                }
            }
        },
        "traits": {
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"smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": " License ARN. "
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": " New version of the license. "
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseStatus",
                "traits": {
                    "smithy.api#documentation": " License status. "
                }
            }
        },
        "traits": {
            "smithy.api#output":
{}
        }
    },
    "com.amazonaws.licensemanager#CreateToken": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateTokenRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateTokenResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },

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            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },

        {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a long-lived token.</p>\n        <p>A refresh token is a JWT token used to get an access token. With an access token,\n          you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n          call License Manager to manage the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateTokenRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits":
 {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n          JWT token.</p>",
                    "smithy.api#required": {}
                }
            },
            "RoleArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n        License Manager does not check whether the roles are in use.</p>"
                }
            },
            "ExpirationInDays": {
                "target": "com.amazonaws.licensemanager#Integer",
                "traits": {
                    "smithy.api#documentation": "<p>Token expiration, in days, counted from token creation. The default is 365 days.</p>"
                }
```

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            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Data specified by the caller to be included in the JWT token. The
data is mapped\n          to the amr claim of the JWT token.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Idempotency token, valid for 10 minutes.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateTokenResponse": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",

                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
            "TokenType": {
                "target": "com.amazonaws.licensemanager#TokenType",
                "traits": {
                    "smithy.api#documentation": "<p>Token type.</p>"
                }
            },
            "Token": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DateTime": {
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    "type": "timestamp"
  },
  "com.amazonaws.licensemanager#DatetimeRange": {
    "type": "structure",
    "members": {
      "Begin": {
          "target": "com.amazonaws.licensemanager#ISO8601DateTime",
        "traits": {
          "smithy.api#documentation": "<p>Start of the time range.</p>",
          "smithy.api#required": {}
        }
      },
      "End": {
        "target": "com.amazonaws.licensemanager#ISO8601DateTime",
        "traits": {
          "smithy.api#documentation": "<p>End of the time range.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC format.</p>"
    }
  },
  "com.amazonaws.licensemanager#DeleteGrant": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
     },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
      },
      {
```

"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes
the specified grant. "
}
},
"com.amazonaws.licensemanager#DeleteGrantRequest": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " The Status reason for the delete request. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the
grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}

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            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
"<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"

},
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
```

"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license configuration. \n You cannot delete a license configuration that is in use. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
"type": "structure",
"members":
{
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

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            "smithy.api#documentation": "<p>ID of the license configuration.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
      "type": "structure",
      "members": {},
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
       },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target": "com.amazonaws.licensemanager#ValidationException"
```

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified report generator.</p>\n        <p>This action
deletes the report generator, which stops it from generating future reports.\n        The action cannot be reversed. It
has no effect on the previous reports from this generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to be
deleted.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {

 "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the license.</p>",
                    "smithy.api#required":
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{}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseResponse": {
"type": "structure",
"members": {
"Status": {
"target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"DeletionDate": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date when the license is deleted. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#DeleteToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"

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            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },

        {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteTokenRequest": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteTokenResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}

      }
    },
    "com.amazonaws.licensemanager#DigitalSignatureMethod": {
        "type": "enum",
        "members": {
            "JWT_PS384": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "JWT_PS384"
                }
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```
            }
        }
    },
    "com.amazonaws.licensemanager#Entitlement": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement name.</p>",
                    "smithy.api#required": {}
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement resource. Use only
if the unit is None.</p>"
                }
            },
            "MaxCount": {
                "target": "com.amazonaws.licensemanager#Long",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
                }
            },
            "Overage": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether overages are allowed.</p>"
                }
            },
            "Unit": {
                "target": "com.amazonaws.licensemanager#EntitlementUnit",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement unit.</p>",
                    "smithy.api#required": {}
                }
            },
            "AllowCheckIn": {
                "target":
"com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether check-ins are allowed.</p>"
                }
            }
        },
        "traits": {
```

"smithy.api#documentation": " Describes a resource entitled for use with a license. "
}
},
"com.amazonaws.licensemanager#EntitlementData": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement data name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement
data value. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementDataUnit",
"traits": {
"smithy.api#documentation": " Entitlement data unit. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Data associated with an entitlement resource. "
}
},
"com.amazonaws.licensemanager#EntitlementDataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#EntitlementData"
}
},
"com.amazonaws.licensemanager#EntitlementDataUnit": {
"type": "enum",
"members": {
"COUNT": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Count"
}
},

"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"SECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Seconds"
}
},
"MICROSECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Microseconds"
}
},
"MILLISECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Milliseconds"
}
},
"BYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes"
}
},
"KILOBYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes"
}
},
"MEGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes"
}
},
"GIGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes"
}
},

"TERABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabytes"
}
},
"BITS":
{
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits"
}
},
"KILOBITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobits"
}
},
"MEGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits"
}
},
"GIGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits"
}
},
"TERABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits"

}
},
"PERCENT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Percent"
}
},
"BYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes/Second"

```
            }
        },
        "KILOBYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobytes/Second"
            }
        },
        "MEGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabytes/Second"
            }
        },
        "GIGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "Gigabytes/Second"
            }
        },
        "TERABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabytes/Second"
            }
        },
        "BITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bits/Second"
            }
        },
        "KILOBITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobits/Second"
            }
        },
        "MEGABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue":
"Megabits/Second"
            }
        },
        "GIGABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
```

```
                "smithy.api#enumValue": "Gigabits/Second"
            }
        },
        "TERABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabits/Second"
            }
        },
        "COUNT_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Count/Second"
            }
        }
    }
},
"com.amazonaws.licensemanager#EntitlementList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Entitlement"
    }
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException":
{
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>The entitlement is not allowed.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#EntitlementUnit": {
    "type": "enum",
    "members": {
        "COUNT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Count"
            }
        },
        "NONE": {
            "target": "smithy.api#Unit",
```

```
            "traits": {
                "smithy.api#enumValue": "None"
            }
        },
        "SECONDS":
{
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Seconds"
            }
        },
        "MICROSECONDS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Microseconds"
            }
        },
        "MILLISECONDS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Milliseconds"
            }
        },
        "BYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bytes"
            }
        },
        "KILOBYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobytes"
             }
        },
        "MEGABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabytes"
            }
        },
        "GIGABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Gigabytes"
            }
        },
        "TERABYTES": {
```

"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabytes"
}
},
"BITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits"
}
},
"KILOBITS": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Kilobits"
}
},
"MEGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits"
}
},
"GIGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits"
}
},
"TERABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits"
}
},
"PERCENT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Percent"
}
},
"BYTES_PER_SECOND": {
"target":
"smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes/Second"
}

```
            },
            "KILOBYTES_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Kilobytes/Second"
                }
            },
            "MEGABYTES_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Megabytes/Second"
                }
            },
            "GIGABYTES_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Gigabytes/Second"
                }
            },
            "TERABYTES_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {

"smithy.api#enumValue": "Terabytes/Second"
                }
            },
            "BITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Bits/Second"
                }
            },
            "KILOBITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Kilobits/Second"
                }
            },
            "MEGABITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Megabits/Second"
                }
            },
            "GIGABITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Gigabits/Second"
```

```
            }
        },

    "TERABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabits/Second"
            }
        },
        "COUNT_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Count/Second"
            }
        }
    }
},
"com.amazonaws.licensemanager#EntitlementUsage": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage name.</p>",
                "smithy.api#required": {}
            }
        },
        "ConsumedValue": {
            "target": "com.amazonaws.licensemanager#String",

        "traits": {
                "smithy.api#documentation": "<p>Resource usage consumed.</p>",
                "smithy.api#required": {}
            }
        },
        "MaxCount": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
            }
        },
        "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
                "smithy.api#required": {}
            }
        }
```

```
        },
        "traits": {
            "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementUsageList":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#EntitlementUsage"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumption": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
```

```
        "type": "structure",
        "members": {
          "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>License consumption token.</p>",
              "smithy.api#required": {}

      }
          },
          "DryRun": {
            "target": "com.amazonaws.licensemanager#Boolean",
            "traits": {
              "smithy.api#default": false,
              "smithy.api#documentation": "<p>Checks whether you have the required permissions for the action,
without actually making the request. Provides an error response if you do not have the required permissions.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
        "type": "structure",
        "members": {
          "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>License consumption token.</p>"
            }
          },

          "Expiration": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Date and time at which the license consumption expires.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#FailedDependencyException": {
        "type": "structure",
        "members": {
          "Message": {
```

"target": "com.amazonaws.licensemanager#Message"
},
"ErrorCode": {
"target": "com.amazonaws.licensemanager#String"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "FailedDependency",
"httpResponseCode": 424
},
"smithy.api#documentation":
" A dependency required to run the API is missing. ",
"smithy.api#error": "client",
"smithy.api#httpError": 424
}
},
"com.amazonaws.licensemanager#Filter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#FilterName",
"traits": {
"smithy.api#documentation": " Name of the filter. Filter names are case-sensitive. "
}
},
"Values": {
"target": "com.amazonaws.licensemanager#FilterValues",
"traits": {
"smithy.api#documentation": " The value of the filter, which is case-sensitive. You can only
specify one value for the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter
name and value pair that is used to return more specific results from a\n describe operation. Filters can be used
to match a set of resources by specific criteria,\n such as tags, attributes, or IDs. "
}
},
"com.amazonaws.licensemanager#FilterLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {

```
        "aws.protocols#awsQueryError": {
            "code": "FilterLimitExceeded",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The request uses too many filters or too many filter values.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#FilterList": {
    "type": "list",
     "member": {
        "target": "com.amazonaws.licensemanager#Filter"
    }
},
"com.amazonaws.licensemanager#FilterName": {
    "type": "string"
},
"com.amazonaws.licensemanager#FilterValue": {
    "type": "string"
},
"com.amazonaws.licensemanager#FilterValues": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#FilterValue",
        "traits": {
            "smithy.api#xmlName": "item"
        }
    }
},
"com.amazonaws.licensemanager#Filters": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Filter",
        "traits": {
            "smithy.api#xmlName": "item"
        }
    }
},
"com.amazonaws.licensemanager#GetAccessToken": {
    "type": "operation",
    "input": {
         "target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
    },
    "errors": [
```

```
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets a temporary access token to use with
AssumeRoleWithWebIdentity. Access
 tokens\n          are valid for one hour.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenRequest": {
        "type": "structure",
        "members": {
            "Token": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>",
                    "smithy.api#required": {}
                }
            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Token properties to validate against those present in the JWT
token.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenResponse":
 {
        "type": "structure",
        "members": {
```

```
        "AccessToken": {
            "target": "com.amazonaws.licensemanager#TokenString",
            "traits": {
                "smithy.api#documentation": "<p>Temporary access token.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#GetGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"

   },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
```

```
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
        "Grant": {
            "target": "com.amazonaws.licensemanager#Grant",
            "traits": {
                "smithy.api#documentation": "<p>Grant details.</p>"
            }
        }
    },
    "traits": {

"smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#GetLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
```

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"

},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license configuration. "

```
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits":
 {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurationId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Unique ID for the license configuration.</p>"
                }
            },
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
                }
            },
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the license configuration.</p>"
                 }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Description of the license configuration.</p>"
                }
            },
            "LicenseCountingType": {
                "target": "com.amazonaws.licensemanager#LicenseCountingType",
```

```
            "traits": {
                "smithy.api#documentation": "<p>Dimension for which the licenses are counted.</p>"
            }
        },
        "LicenseRules": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>License rules.</p>"
            }
        },
        "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",

           "traits": {
                "smithy.api#documentation": "<p>Number of available licenses.</p>"
            }
        },
        "LicenseCountHardLimit": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Sets the number of available licenses as a hard limit.</p>"
            }
        },
        "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses assigned to resources.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License configuration status.</p>"
            }

    },
        "OwnerAccountId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Account ID of the owner of the license configuration.</p>"
            }
        },
        "ConsumedLicenseSummaryList": {
            "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
            "traits": {
                "smithy.api#documentation": "<p>Summaries of the licenses consumed by resources.</p>"
            }
        },
```

"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the managed resources. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags for the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When
true, disassociates a resource when software is uninstalled. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTask": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

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            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {

 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets information about the specified license type conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the license type conversion task to retrieve information
on.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the license type conversion task.</p>"
                }
            },
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the resources the license
conversion task is associated with.</p>"
```

```
            }
        },
        "SourceLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
                "smithy.api#documentation": "<p>Information
about the license type converted from.</p>"
            }
        },
        "DestinationLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
                "smithy.api#documentation": "<p>Information about the license type converted to.</p>"
            }
        },
        "StatusMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
            "traits": {
                "smithy.api#documentation": "<p>Status of the license type conversion task.</p>"
            }
        },

  "StartTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Time at which the license type conversion task was started .</p>"
            }
        },
        "LicenseConversionTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Amount of time to complete the license type conversion.</p>"
            }
        },
        "EndTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Time at which the license type conversion task was
completed.</p>"
            }
        }
    },
```

```
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

         },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets information about the specified report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. ",
"smithy.api#required":
{}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"ReportGenerator": {
"target": "com.amazonaws.licensemanager#ReportGenerator",
"traits": {
"smithy.api#documentation": " A report generator that creates periodic reports about your license configurations. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
},
"traits": {
"smithy.api#input": {}
}

```
    },
    "com.amazonaws.licensemanager#GetLicenseResponse": {
        "type": "structure",
        "members": {
            "License": {
                "target": "com.amazonaws.licensemanager#License",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },

"com.amazonaws.licensemanager#GetLicenseUsage": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {

"target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the usage of the specified license.</p>"
        }
```

```
    },
    "com.amazonaws.licensemanager#GetLicenseUsageRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#GetLicenseUsageResponse": {
      "type": "structure",
      "members": {
        "LicenseUsage": {
          "target":
"com.amazonaws.licensemanager#LicenseUsage",
          "traits": {
            "smithy.api#documentation": "<p>License usage details.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#GetServiceSettings": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets the License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsRequest": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Regional S3 bucket path for storing reports, license trail event data,
discovery data,\n        and so on.</p>"

  }
            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>SNS topic configured to receive notifications from License
Manager.</p>"
                }
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether Organizations is integrated with License
Manager for\n        cross-account discovery.</p>"
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether cross-account discovery is enabled.</p>"
                }
```

```
        },
            "LicenseManagerResourceShareArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource share. The License
Manager management account \n        provides member accounts with access to this share.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#Grant": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {

 "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ParentArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Parent ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>License ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "GranteePrincipalArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
```

"smithy.api#documentation": " The grantee principal ARN. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"GrantStatus": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. ",
"smithy.api#required": {}
}
},
"GrantedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Granted operations. ",
"smithy.api#required": {}
}
},
"Options": {
"target": "com.amazonaws.licensemanager#Options",
"traits": {
"smithy.api#documentation": " The options specified for the grant. "
}
}
},
"traits": {
"smithy.api#documentation":

" Describes a grant. "
}
},
"com.amazonaws.licensemanager#GrantList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Grant"
}
},
"com.amazonaws.licensemanager#GrantStatus": {
"type": "enum",
"members": {
"PENDING_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_WORKFLOW"
}
},
"PENDING_ACCEPT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_ACCEPT"
}
},
"REJECTED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "REJECTED"

}
},
"ACTIVE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ACTIVE"
}
},
"FAILED_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "FAILED_WORKFLOW"
}
},
"DELETED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DELETED"
}

```
            },
            "PENDING_DELETE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_DELETE"
                }
            },
            "DISABLED": {
                "target": "smithy.api#Unit",
                "traits":
{
                    "smithy.api#enumValue": "DISABLED"
                }
            },
            "WORKFLOW_COMPLETED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "WORKFLOW_COMPLETED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GrantedLicense": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "LicenseName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License name.</p>"
                }

  },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product name.</p>"
                }
            },
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product SKU.</p>"
```

```
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
                "smithy.api#documentation": "<p>Granted license issuer.</p>"
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region of the granted license.</p>"

         }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>Granted license status.</p>"
            }
        },
        "Validity": {
            "target": "com.amazonaws.licensemanager#DatetimeRange",
            "traits": {
                "smithy.api#documentation": "<p>Date and time range during which the granted license is valid, in
ISO8601-UTC format.</p>"
            }
        },
        "Beneficiary": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Granted license beneficiary.</p>"
            }
        },
        "Entitlements": {
            "target": "com.amazonaws.licensemanager#EntitlementList",
             "traits": {
                "smithy.api#documentation": "<p>License entitlements.</p>"
            }
        },
        "ConsumptionConfiguration": {
            "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
            }
        },
        "LicenseMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
```

```
            "traits": {
                "smithy.api#documentation": "<p>Granted license metadata.</p>"
            }
        },
        "CreateTime": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Creation time of the granted license.</p>"

  }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Version of the granted license.</p>"
            }
        },
        "ReceivedMetadata": {
            "target": "com.amazonaws.licensemanager#ReceivedMetadata",
            "traits": {
                "smithy.api#documentation": "<p>Granted license received metadata.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes a license that is granted to a grantee.</p>"
    }
},
"com.amazonaws.licensemanager#GrantedLicenseList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#GrantedLicense"
    }
},
"com.amazonaws.licensemanager#ISO8601DateTime":
{
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 50
        },
        "smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-
1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[ 0-3]|[0-1][0-9]):[0-5][0-9])+$"
    }
},
"com.amazonaws.licensemanager#Integer": {
    "type": "integer"
```

```
    },
    "com.amazonaws.licensemanager#InvalidParameterValueException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidParameterValueProvided",
                "httpResponseCode": 400
            },
            "smithy.api#documentation":
 "<p>One or more parameter values are not valid.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#InvalidResourceStateException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidResourceState",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>License Manager cannot allocate a license to a resource because of its
state. </p>\n        <p>For example, you cannot allocate a license to an instance in the process of shutting\n
down.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },

    "com.amazonaws.licensemanager#InventoryFilter": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the filter.</p>",
                    "smithy.api#required": {}
                }
```

```
        },
        "Condition": {
            "target": "com.amazonaws.licensemanager#InventoryFilterCondition",
            "traits": {
                "smithy.api#documentation": "<p>Condition of the filter.</p>",
                "smithy.api#required": {}
            }
        },
        "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Value of the filter.</p>"
            }
        }

    },
    "traits": {
        "smithy.api#documentation": "<p>An inventory filter.</p>"
    }
  },
  "com.amazonaws.licensemanager#InventoryFilterCondition": {
    "type": "enum",
    "members": {
        "EQUALS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EQUALS"
            }
        },
        "NOT_EQUALS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "NOT_EQUALS"
            }
        },
        "BEGINS_WITH": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "BEGINS_WITH"
            }
        },
        "CONTAINS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "CONTAINS"
            }
        }
    }
```

```
    },
    "com.amazonaws.licensemanager#InventoryFilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#InventoryFilter"
        }
    },
    "com.amazonaws.licensemanager#Issuer": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Issuer name.</p>",
                    "smithy.api#required": {}
                }
            },
            "SignKey": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage
 of sign and verify, \n        and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about the issuer of a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#IssuerDetails": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Issuer name.</p>"
                }
            },
            "SignKey": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n        and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
                }
            },
            "KeyFingerprint": {
```

```
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Issuer key fingerprint.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details associated with the issuer of a license.</p>"
    }
},
"com.amazonaws.licensemanager#License": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
        },
        "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {

       "smithy.api#documentation": "<p>License name.</p>"
            }
        },
        "ProductName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product name.</p>"
            }
        },
        "ProductSKU": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product SKU.</p>"
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
                "smithy.api#documentation": "<p>License issuer.</p>"
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

"smithy.api#documentation": " Home Region of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"Entitlements": {

"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " License metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " License creation time. "
}
},

```
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Software license that is managed in License Manager.</p>"
    }
},
"com.amazonaws.licensemanager#LicenseConfiguration": {
    "type": "structure",
    "members": {
        "LicenseConfigurationId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Unique ID of the license configuration.</p>"
            }
        },
        "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
            }
        },
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Name of the license configuration.</p>"
            }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Description of the license configuration.</p>"
            }
        },
        "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
            "traits": {
                "smithy.api#documentation": "<p>Dimension to use to track the license inventory.</p>"
             }
        },
        "LicenseRules": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>License rules.</p>"
```

```
            }
        },
        "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
            }
        },
        "LicenseCountHardLimit": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Number of available licenses as a hard limit.</p>"
            }
        },
        "DisassociateWhenNotFound": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
             "traits": {
                "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
            }
        },
        "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses consumed. </p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Status of the license configuration.</p>"
            }
        },
        "OwnerAccountId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Account ID of the license configuration's owner.</p>"

        }
        },
        "ConsumedLicenseSummaryList": {
            "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
            "traits": {
                "smithy.api#documentation": "<p>Summaries for licenses consumed by various resources.</p>"
            }
        },
        "ManagedResourceSummaryList": {
            "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
```

"traits": {
"smithy.api#documentation": " Summaries for managed resources. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {

"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
}
},
"traits": {
"smithy.api#documentation": " A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
"type": "structure",
"members": {
"ResourceArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of server resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource consuming licenses. "
}

```
            },
            "AssociationTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {

    "smithy.api#documentation": "<p>Time when the license configuration was associated with the resource.</p>"
                }
            },
            "AmiAssociationScope": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-
account</code>.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes an association with a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationStatus": {
        "type": "enum",
        "members":
{
            "AVAILABLE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "AVAILABLE"
                }
            },
            "DISABLED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DISABLED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationUsage": {
        "type": "structure",
        "members": {
            "ResourceArn": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits":
{
"smithy.api#documentation": " Type of resource. "
}
},
"ResourceStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the account that owns the resource. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was initially associated with the resource. "
}
},

"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about the usage of a resource associated with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"

```
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurations": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfiguration"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionContext": {

  "type": "structure",
        "members": {
            "UsageOperation": {
                "target": "com.amazonaws.licensemanager#UsageOperation",
                "traits": {
                    "smithy.api#documentation": "<p>The Usage operation value that corresponds to the license type you
are converting your resource from.  For more information about which platforms correspond to which usage
operation values see <a href=\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-info-
fields.html#billing-info\">Sample data: usage operation by platform\n      </a>\n         </p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTask": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {

     "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the license type conversion task.</p>"
                }
            },
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the resource associated
with the license type\n         conversion task.</p>"
                }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license type this conversion task converted
from.</p>"
```

```
            }
        },
        "DestinationLicenseContext": {
            "target":
 "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
                "smithy.api#documentation": "<p>Information about the license type this conversion task converted
to.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
            "traits": {
                "smithy.api#documentation": "<p>The status of the conversion task.</p>"
            }
        },
        "StatusMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
            }
        },
        "StartTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation":
 "<p>The time the conversion task was started at.</p>"
            }
        },
        "LicenseConversionTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>The time the usage operation value of the resource was
changed.</p>"
            }
        },
        "EndTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>The time the conversion task was completed.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
    }
},
"com.amazonaws.licensemanager#LicenseConversionTaskId": {
```

```
        "type": "string",
        "traits": {

       "smithy.api#length": {
            "min": 0,
            "max": 50
          },
          "smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
        }
      },
      "com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
        "type": "enum",
        "members": {
          "IN_PROGRESS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "IN_PROGRESS"
            }
          },
          "SUCCEEDED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "SUCCEEDED"
            }
          },
          "FAILED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "FAILED"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#LicenseConversionTasks":
{
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#LicenseConversionTask"
        }
      },
      "com.amazonaws.licensemanager#LicenseCountingType": {
        "type": "enum",
        "members": {
          "VCPU": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "vCPU"
            }
```

```
        },
        "INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Instance"
            }
        },
        "CORE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Core"
            }
        },
        "SOCKET": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "Socket"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseDeletionStatus": {
    "type": "enum",
    "members": {
        "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#License"
    }
},
"com.amazonaws.licensemanager#LicenseOperationFailure": {

    "type": "structure",
    "members": {
```

"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Resource type. "
}
},
"ErrorMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Error message. "
}
},
"FailureTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {

"smithy.api#documentation": " Failure time. "
}
},
"OperationName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the operation. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource. "
}
},
"OperationRequestedBy": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The requester is \"License Manager Automated Discovery\". "
}
},
"MetadataList": {

"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {

"smithy.api#documentation": " Reserved. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the failure of a license operation. "
}
},
"com.amazonaws.licensemanager#LicenseOperationFailureList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseOperationFailure"
}
},
"com.amazonaws.licensemanager#LicenseSpecification": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",

"smithy.api#required": {}
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Details for associating a license configuration with a resource. "
}
},
"com.amazonaws.licensemanager#LicenseSpecifications": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseSpecification"
}
},
"com.amazonaws.licensemanager#LicenseStatus": {
"type": "enum",
"members": {
"AVAILABLE": {

"target": "smithy.api#Unit",

"traits": {
"smithy.api#enumValue": "AVAILABLE"
}
},
"PENDING_AVAILABLE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_AVAILABLE"
}
},
"DEACTIVATED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DEACTIVATED"
}
},
"SUSPENDED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "SUSPENDED"
}
},
"EXPIRED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "EXPIRED"
}
},

"PENDING_DELETE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_DELETE"
}
},
"DELETED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DELETED"
}
}
}
},
"com.amazonaws.licensemanager#LicenseUsage": {
"type": "structure",
"members": {

"EntitlementUsages": {
"target": "com.amazonaws.licensemanager#EntitlementUsageList",
"traits": {
"smithy.api#documentation": " License entitlement usages. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the entitlement usage associated with a license. "

}
},
"com.amazonaws.licensemanager#LicenseUsageException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "LicenseUsageFailure",
"httpResponseCode": 412
},
"smithy.api#documentation": " You do not have enough licenses available to support a new resource launch. ",
"smithy.api#error": "client",
"smithy.api#httpError": 412
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"

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            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the resource associations for the
 specified license configuration.</p>\n        <p>Resource associations need not consume licenses from a license
configuration. \n        For example, an AMI or a stopped instance might not consume a license (depending on \n
the license rules).</p>"
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results
 to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
        "type": "structure",
```

"members": {
"LicenseConfigurationAssociations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
"traits": {
"smithy.api#documentation": " Information about the associations for the license configuration. "
}
},
"NextToken": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the grants distributed for the specified license. "
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
"type": "structure",
"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranteePrincipalARN</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
"type": "structure",

"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",

"traits": {
"smithy.api#documentation": " Distributed grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license configuration operations that failed. "
}

```
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
      "type": "structure",
      "members": {
        "LicenseConfigurationArn": {
          "target": "com.amazonaws.licensemanager#String",
           "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name of the license configuration.</p>",
            "smithy.api#required": {}
          }
        },
        "MaxResults": {
          "target": "com.amazonaws.licensemanager#BoxInteger",
          "traits": {
            "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse":
{
      "type": "structure",
      "members": {
        "LicenseOperationFailureList": {
          "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
          "traits": {
            "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
```

```
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurations": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
        },

    "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configurations
 for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
configurations.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
```

"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next
set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical
operators\n are supported: \n \n \n \n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n
\n <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license
enforcement is used. \n Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>. \n
\n \n \n <code>usagelimitExceeded</code> - A Boolean value that
indicates whether the available licenses have been exceeded. \n Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
"type": "structure",
"members": {
"LicenseConfigurations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurations",
"traits": {
"smithy.api#documentation": " Information about the license configurations. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},

```
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseConversionTasks": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
    "type": "structure",
    "members": {
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {

"smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
```

```
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>\n        Filters to scope the results. Valid filters are
<code>ResourceArns</code> and <code>Status</code>.\n      </p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTasks": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTasks",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configuration tasks for your
 account.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target":
```

"com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the report generators for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest":
{
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported:
\n \n \n \n <code>LicenseConfigurationArn</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits":
{
"smithy.api#documentation": " Maximum number of results to return in a single call. "

```
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
        "type": "structure",
        "members": {
          "ReportGenerators": {
            "target": "com.amazonaws.licensemanager#ReportGeneratorList",
            "traits": {
              "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }

        }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
```

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Describes the license configurations for the specified resource. "
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a resource that has an associated license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
"type": "structure",
"members": {
"LicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " License configurations associated with a resource. "
}
},

```
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists all versions of the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
```

```
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
        "type": "structure",
        "members": {
          "Licenses": {
            "target": "com.amazonaws.licensemanager#LicenseList",
            "traits": {
              "smithy.api#documentation": "<p>License details.</p>"
            }
          },

"NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenses": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicensesRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicensesResponse"
        },
```

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the licenses for your account. "
}
},
"com.amazonaws.licensemanager#ListLicensesRequest": {
"type": "structure",
"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},

"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>Beneficiary</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>Status</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token

for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicensesResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#LicenseList",
"traits": {
"smithy.api#documentation": " License details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists grants that are received. Received grants are grants created while specifying the\n recipient as this Amazon Web Services account, your organization, or an organizational unit\n (OU) to which this member account belongs. "
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganization": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},

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            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target":
 "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the grants received for all accounts in the organization.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the received license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n
    <ul>\n        <li>\n            <p>\n                <code>ParentArn</code>\n            </p>\n        </li>\n
<li>\n            <p>\n                <code>GranteePrincipalArn</code>\n            </p>\n        </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
```

"com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Lists the grants the organization has received. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
"type": "structure",
"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranterAccountId</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},

```
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
    "type": "structure",
    "members": {
        "Grants": {
            "target": "com.amazonaws.licensemanager#GrantList",
             "traits": {
                "smithy.api#documentation": "<p>Received grant details.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
         },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists received licenses.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {

    "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
```

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the licenses received for all accounts in the organization. "
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest": {
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>Beneficiary</code>\n \n \n \n \n <code>ProductSKU</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#GrantedLicenseList",
"traits": {
"smithy.api#documentation": " Lists the licenses the organization has received. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
"type": "structure",
"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},

"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>IssuerName</code>\n \n \n \n \n <code>Beneficiary</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
"type": "structure",

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    "members": {
      "Licenses": {
        "target": "com.amazonaws.licensemanager#GrantedLicenseList",
        "traits": {
          "smithy.api#documentation": "<p>Received license details.</p>"
        }
      },

      "NextToken": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Token for the next set of results.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#ListResourceInventory": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#FailedDependencyException"
      },
      {
        "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
```

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            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListResourceInventoryRequest": {
        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                 "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#InventoryFilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>account_id</code>
- The ID of the Amazon Web Services account that owns the resource.\n                Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n
            </li>\n            <li>\n                <p>\n                    <code>application_name</code> - The name of the
application. \n                Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n
    </li>\n            <li>\n                <p>\n                    <code>license_included</code> - The type of license included. \n
            Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n                Possible values
are <code>sql-server-enterprise</code> | \n                <code>sql-server-standard</code> | \n                <code>sql-
server-web</code> |  \n                <code>windows-server-datacenter</code>.</p>\n            </li>\n            <li>\n
    <p>\n                    <code>platform</code> - The platform of the resource.\n                Logical operators are
<code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n            </li>\n            <li>\n                <p>\n
        <code>resource_id</code> - The ID of the resource. \n                Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n
      <code>tag:<key></code> - The key/value combination of a tag assigned \n                to the resource. Logical
operators are <code>EQUALS</code> (single account) or\n                <code>EQUALS</code> |
<code>NOT_EQUALS</code> (cross account).</p>\n            </li>\n        </ul>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
```

```
    "com.amazonaws.licensemanager#ListResourceInventoryResponse": {
      "type": "structure",
      "members": {
        "ResourceInventoryList": {
          "target": "com.amazonaws.licensemanager#ResourceInventoryList",
          "traits": {
            "smithy.api#documentation": "<p>Information
about the resources.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#ListTagsForResource": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
         },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Lists the tags for the specified license configuration.</p>"
```

```
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",

    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceResponse": {
        "type": "structure",
        "members": {
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the tags.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListTokens": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTokensRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTokensResponse"
        },
        "errors":
[
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists your tokens.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTokensRequest": {
        "type": "structure",
        "members": {
            "TokenIds": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {

                  "smithy.api#documentation": "<p>Token IDs.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filter is supported:</p>\n
    <ul>\n        <li>\n        <p>\n        <code>LicenseArns</code>\n        </p>\n        </li>\n
</ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation":
 "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
```

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            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListTokensResponse": {
        "type": "structure",
        "members": {
            "Tokens": {
                "target": "com.amazonaws.licensemanager#TokenList",
                "traits": {
                    "smithy.api#documentation": "<p>Received token details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying license\n consumption details by resource at a selected point in time. Use this action to audit the\n current license consumption for any license inventory and configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n are supported:</p>\n <ul>\n <li>\n <p>\n <code>resourceArn</code> - The ARN of the license configuration resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n </li>\n <li>\n <p>\n <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n </li>\n <li>\n <p>\n <code>resourceAccount</code> - The ID of the account that owns the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n </li>\n </ul>"
                }
            }
```

```
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
        "type": "structure",
        "members": {

"LicenseConfigurationUsageList": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#Location": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#Long": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#ManagedResourceSummary": {
        "type": "structure",
        "members": {
            "ResourceType":
{
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
                }
            },
            "AssociationCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
                }
            }
```

```
    },
    "traits": {
        "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
    }
},
"com.amazonaws.licensemanager#MaxSize100": {

"type": "integer",
    "traits": {
        "smithy.api#range": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#String"
    },
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 3
        }
    }
},
"com.amazonaws.licensemanager#Message": {
    "type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The key name.</p>"
            }
        },

"Value": {
            "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " The value. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes key/value pairs. "
}
},
"com.amazonaws.licensemanager#MetadataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Metadata"
}
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " There are no entitlements found for this license, or the entitlement maximum count is reached. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#Options": {
"type": "structure",
"members": {
"ActivationOverrideBehavior": {
"target": "com.amazonaws.licensemanager#ActivationOverrideBehavior",
"traits": {
"smithy.api#documentation": " An activation option for your grant that determines the behavior of activating a grant.\n Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the\n <code>Status</code> parameter. \n \n \n As a license administrator, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when activating a grant. \n \n \n As a grantor, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee\n account in your organization. \n \n \n As a grantee, if the grantor creating the distributed grant doesnt specify an\n <code>ActivationOverrideBehavior</code>, you can optionally specify one when you\n are activating the grant. \n \n \n <dl>\n <dt>DISTRIBUTED_GRANTS_ONLY</dt>\n <dd>\n Use this value to activate a grant without replacing any member accounts\n active grants for the same product. \n </dd>\n <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt>\n <dd>\n Use this value to activate a

grant and disable other active grants in any\n member accounts
for the same product. This action will also replace their\n previously activated grants with this activated grant. \n </dd>\n </dl>"
}
}
},
"traits": {
"smithy.api#documentation": " The options you can specify when you create a new version of a grant, such as activation\n override behavior. For more information, see Granted licenses in License Manager in the License Manager User Guide. "
}
},
"com.amazonaws.licensemanager#OrganizationConfiguration": {
"type": "structure",
"members": {
"EnableIntegration": {
"target": "com.amazonaws.licensemanager#Boolean",
"traits": {
"smithy.api#default": false,
"smithy.api#documentation": " Enables Organizations integration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Configuration information for Organizations. "
}
},
"com.amazonaws.licensemanager#PrincipalArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 1
}
}
},
"com.amazonaws.licensemanager#ProductInformation": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterList": {
"target": "com.amazonaws.licensemanager#ProductInformationFilterList",
"traits": {
"smithy.api#documentation": " A Product information filter consists of a <code>ProductInformationFilterComparator</code> which is a logical operator, a <code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. \n Accepted values for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. \n The following filters and are supported when the resource type \n is <code>SSM_MANAGED</code>: \n \n \n \n <code>Application Name</code> - The name of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Publisher</code> - The publisher of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Version</code> - The version of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Type</code> - The platform type.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n \n \n \n \n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n \n \n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n Possible values are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n The following filters and logical operators are supported when the resource type\n is <code>RDS</code>: \n \n \n \n <code>Engine Edition</code> - The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>. \n \n \n \n <code>License Pack</code> - The license pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n <code>diagnostic pack sqlt</code> | \n <code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n \n ",
"smithy.api#required": {}
}
}
},

```
    "traits": {
        "smithy.api#documentation": "<p>Describes product information for a license configuration.</p>"
    }
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
    "type": "structure",
    "members": {
        "ProductInformationFilterName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Filter name.</p>",
                "smithy.api#required": {}
            }
        },
        "ProductInformationFilterValue": {
            "target": "com.amazonaws.licensemanager#StringList",

      "traits": {
                "smithy.api#documentation": "<p>Filter value.</p>"
            }
        },
        "ProductInformationFilterComparator": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Logical operator.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes product information filters.</p>"
    }
},
"com.amazonaws.licensemanager#ProductInformationFilterList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformationFilter"
    }
},
"com.amazonaws.licensemanager#ProductInformationList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformation"
     }
},
"com.amazonaws.licensemanager#ProvisionalConfiguration": {
    "type": "structure",
    "members": {
```

"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the provisional configuration, in minutes. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details about a provisional configuration. "
}
},
"com.amazonaws.licensemanager#RateLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "RateLimitExceeded",
"httpResponseCode": 429
},
"smithy.api#documentation": " Too many requests have been submitted. Try again after a brief wait. ",
"smithy.api#error": "client",
"smithy.api#httpError": 429
}
},
"com.amazonaws.licensemanager#ReceivedMetadata": {
"type": "structure",
"members": {
"ReceivedStatus": {
"target": "com.amazonaws.licensemanager#ReceivedStatus",
"traits": {
"smithy.api#documentation": " Received status. "
}
},
"ReceivedStatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Received status reason. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",

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            "traits": {
                "smithy.api#documentation": "<p>Allowed operations.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Metadata associated with received licenses and grants.</p>"
    }
},
"com.amazonaws.licensemanager#ReceivedStatus": {
    "type": "enum",
    "members": {
        "PENDING_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_WORKFLOW"
            }
        },
        "PENDING_ACCEPT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue":
"PENDING_ACCEPT"
            }
        },
        "REJECTED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "REJECTED"
            }
        },
        "ACTIVE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "ACTIVE"
            }
        },
        "FAILED_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "FAILED_WORKFLOW"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
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        },
        "DISABLED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DISABLED"
            }
        },
        "WORKFLOW_COMPLETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "WORKFLOW_COMPLETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#RedirectException": {
    "type": "structure",
    "members": {
        "Location": {
            "target": "com.amazonaws.licensemanager#Location",
            "traits": {
                "smithy.api#httpHeader": "Location"
            }
        },
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 308
    }
},
"com.amazonaws.licensemanager#RejectGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#RejectGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#RejectGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target":
"com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#RejectGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}

  }
    },
    "com.amazonaws.licensemanager#RejectGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
```

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            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#RenewType":
{
    "type": "enum",
    "members": {
        "NONE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "None"
            }
        },
        "WEEKLY": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Weekly"
            }
        },
        "MONTHLY": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Monthly"
            }
        }
    }
},
"com.amazonaws.licensemanager#ReportContext": {
    "type": "structure",
    "members": {
        "licenseConfigurationArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
            "traits": {
```

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration that this generator reports on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details of the license configuration that this generator reports on. "
}
},
"com.amazonaws.licensemanager#ReportFrequency": {
"type": "structure",
"members": {
"value": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Number of times within the frequency period that a report is generated. \n The only supported value is <code>1</code>. "
}
},
"period": {
"target": "com.amazonaws.licensemanager#ReportFrequencyType",

"traits": {
"smithy.api#documentation": " Time period between each report. The period can be daily, weekly, or monthly. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"com.amazonaws.licensemanager#ReportFrequencyType": {
"type": "enum",
"members": {
"DAY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DAY"
}
},
"WEEK": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "WEEK"
}
},

"MONTH": {
"target": "smithy.api#Unit",
"traits":
{
"smithy.api#enumValue": "MONTH"
}
}
}
},
"com.amazonaws.licensemanager#ReportGenerator": {
"type": "structure",
"members": {
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the report generator. "
}
},
"ReportType": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports that are generated. "
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " License
configuration type for this generator. "
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. "
}
},
"LastRunStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the last report generation attempt. "
}

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            },
            "LastRunFailureReason":
 {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Failure message for the last report generation attempt.</p>"
                }
            },
            "LastReportGenerationTime": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Time the last report was generated at.</p>"
                }
            },
            "ReportCreatorAccount": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Web Services account ID used to create the report
generator.</p>"
                }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",

        "traits": {
                    "smithy.api#documentation": "<p>Description of the report generator.</p>"
                }
            },
            "S3Location": {
                "target": "com.amazonaws.licensemanager#S3Location",
                "traits": {
                    "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
                }
            },
            "CreateTime": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Time the report was created.</p>"
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Tags associated with the report generator.</p>"
                }
```

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}
    },
    "traits": {
        "smithy.api#documentation": "<p>Describe the details of a report generator.</p>"
    }
},
"com.amazonaws.licensemanager#ReportGeneratorList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ReportGenerator"
    }
},
"com.amazonaws.licensemanager#ReportGeneratorName": {
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#ReportType": {
    "type": "enum",
    "members": {
        "LICENSE_CONFIGURATION_SUMMARY_REPORT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "LicenseConfigurationSummaryReport"
            }

},
        "LICENSE_CONFIGURATION_USAGE_REPORT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "LicenseConfigurationUsageReport"
            }
        }
    }
},
"com.amazonaws.licensemanager#ReportTypeList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ReportType"
    }
},
"com.amazonaws.licensemanager#ResourceInventory": {
    "type": "structure",
    "members": {
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            "ResourceId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits":
{
                    "smithy.api#documentation": "<p>Type of resource.</p>"
                }
            },
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "Platform": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Platform of the resource.</p>"
                }
            },
            "PlatformVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Platform version of the resource in the inventory.</p>"
                }
            },
            "ResourceOwningAccountId":
{
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#ResourceInventoryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ResourceInventory"
        }
```

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},
"com.amazonaws.licensemanager#ResourceLimitExceededException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "ResourceLimitExceeded",

         "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>Your resource limits have been exceeded.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceNotFoundException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "InvalidResource.NotFound",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The resource cannot be found.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceType": {
    "type": "enum",
     "members": {
        "EC2_INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_INSTANCE"
            }
        },
        "EC2_HOST": {
            "target": "smithy.api#Unit",
            "traits": {
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"smithy.api#enumValue": "EC2_HOST"
}
},
"EC2_AMI": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "EC2_AMI"
}
},
"RDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "RDS"
}
},
"SYSTEMS_MANAGER_MANAGED_INSTANCE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
}
}
}
},
"com.amazonaws.licensemanager#S3Location": {
"type": "structure",
"members": {
"bucket": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the S3 bucket reports are published to. "
}
},
"keyPrefix": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Prefix of the S3 bucket reports are published to. "
}
}
},
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"com.amazonaws.licensemanager#ServerInternalException": {
"type": "structure",
"members": {
"Message": {

"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InternalError",
"httpResponseCode": 500
},
"smithy.api#documentation": " The server experienced an internal error. Try again. ",
"smithy.api#error": "server",
"smithy.api#httpError": 500
}
},
"com.amazonaws.licensemanager#SignedToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 4096
}
}
},
"com.amazonaws.licensemanager#StatusReasonMessage": {
"type": "string",
"traits":
{
"smithy.api#length": {
"min": 0,
"max": 400
},
"smithy.api#pattern": "^[\\s\\S]+$"
}
},
"com.amazonaws.licensemanager#String": {
"type": "string"
},
"com.amazonaws.licensemanager#StringList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#String"
}
},
"com.amazonaws.licensemanager#Tag": {
"type": "structure",
"members": {
"Key": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Tag key. "

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            }
          },
          "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation":
"<p>Tag value.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
      },
      "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#String"
        }
      },
      "com.amazonaws.licensemanager#TagList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#Tag"
        }
      },
      "com.amazonaws.licensemanager#TagResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#TagResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#TagResourceResponse"
        },
        "errors": [
          {
            "target":
"com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
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            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits":
 {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>One or more tags.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#TagResourceResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#TokenData": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
```

"TokenType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Type of token generated. The supported value is <code>REFRESH_TOKEN</code>. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"ExpirationTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Token expiration time, in ISO8601-UTC format. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller. "
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the roles included in the token. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token status. The possible values are <code>AVAILABLE</code> and <code>DELETED</code>. "
}
}
},
"traits": {

"smithy.api#documentation": " Describes a token. "
}
},
"com.amazonaws.licensemanager#TokenList": {
"type": "list",

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        "member": {
            "target": "com.amazonaws.licensemanager#TokenData"
        }
    },
    "com.amazonaws.licensemanager#TokenString": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 4096
            },
            "smithy.api#pattern": "^\\S+$"
        }
    },
    "com.amazonaws.licensemanager#TokenType": {
        "type": "enum",
        "members": {
            "REFRESH_TOKEN": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "REFRESH_TOKEN"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException":
{
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The digital signature method is unsupported. Try your request
again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#UntagResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UntagResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UntagResourceResponse"
        },
```

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Removes the specified tags from the specified license configuration. "
}
},
"com.amazonaws.licensemanager#UntagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"TagKeys": {
"target": "com.amazonaws.licensemanager#TagKeyList",
"traits": {
"smithy.api#documentation": " Keys identifying the tags to remove. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UntagResourceResponse": {
"type": "structure",
"members": {},

"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Modifies the attributes of an existing license configuration. "
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},

"LicenseConfigurationStatus": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
"traits": {
"smithy.api#documentation": " New status of the license configuration. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {

"smithy.api#documentation": " New license rule. The only rule that you can add after you create a license\n configuration is licenseAffinityToHost. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " New number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " New hard limit of the number of available licenses. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New description of the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " New product information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",

"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
}
},
"traits":
{
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},

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            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates a report generator.</p>\n        <p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to update.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportGeneratorName": {
                "target": "com.amazonaws.licensemanager#ReportGeneratorName",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the report generator.</p>",
                    "smithy.api#required": {}
                }
            },
            "Type": {
                "target": "com.amazonaws.licensemanager#ReportTypeList",
                "traits": {
                    "smithy.api#documentation": "<p>Type of reports to generate. The following report types are supported:</p>\n        <ul>\n            <li>\n                <p>License configuration report - Reports the number and details of consumed licenses for a license configuration.</p>\n            </li>\n            <li>\n                <p>Resource report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n            </li>\n        </ul>",
                    "smithy.api#required": {}
                }
            },
            "ReportContext": {
                "target": "com.amazonaws.licensemanager#ReportContext",
                "traits": {
                    "smithy.api#documentation": "<p>The report context.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportFrequency": {
                "target": "com.amazonaws.licensemanager#ReportFrequency",
```

"traits":
{
"smithy.api#documentation": " Frequency by which reports are generated. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse":
{
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

```
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },

            {
                "target": "com.amazonaws.licensemanager#InvalidResourceStateException"
            },
            {
                "target": "com.amazonaws.licensemanager#LicenseUsageException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds or removes the specified license configurations for the specified
Amazon Web Services resource.</p>\n        <p>You can update the license specifications of AMIs, instances, and
hosts.\n        You cannot update the license specifications for launch templates and CloudFormation templates, \n
  as they send license configurations to the operation that creates the resource.</p>"
        }
    },

    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon Web Services
resource.</p>",
                    "smithy.api#required": {}
                }
            },
            "AddLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
                }
            },
            "RemoveLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation":
 "<p>ARNs of the license configurations to remove.</p>"
                }
```

```
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
    "type": "structure",
    "members": {},
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#UpdateServiceSettings": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
         },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Updates License Manager settings for the current Region.</p>"
    }
},
"com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
    "type": "structure",
    "members": {
        "S3BucketArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon S3 bucket where the License
Manager information is stored. "
}
},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {
"smithy.api#documentation": " Enables integration with Organizations for cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Activates cross-account discovery. "

}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UsageOperation": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
}
}
},
"com.amazonaws.licensemanager#ValidationException": {

"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The provided input is not valid. Try your request again. ",

"smithy.api#error": "client",
"smithy.api#httpError": 400
}
}
}
}

1.4676 aws-sdk-go 1.55.3

1.4676.1 Available under license :

{
"version": "2.0",
"service": " With License Manager, you can create user-based subscriptions to utilize licensed software with a per user subscription fee on Amazon EC2 instances. ",
"operations": {
"AssociateUser": " Associates the user to an EC2 instance to utilize user-based subscriptions. <note> Your estimated bill for charges on the number of users and related costs will take 48 hours to appear for billing periods that haven't closed (marked as Pending billing status) in Amazon Web Services Billing. For more information, see Viewing your monthly charges in the Amazon Web Services Billing User Guide. </note>",
"DeregisterIdentityProvider": " Deregisters the identity provider from providing user-based subscriptions. ",
"DisassociateUser": " Disassociates the user from an EC2 instance providing user-based subscriptions. ",
"ListIdentityProviders":
" Lists the identity providers for user-based subscriptions. ",
"ListInstances": " Lists the EC2 instances providing user-based subscriptions. ",
"ListProductSubscriptions": " Lists the user-based subscription products available from an identity provider. ",
"ListUserAssociations": " Lists user associations for an identity provider. ",
"RegisterIdentityProvider": " Registers an identity provider for user-based subscriptions. ",
"StartProductSubscription": " Starts a product subscription for a user with the specified identity provider. <note> Your estimated bill for charges on the number of users and related costs will take 48 hours to appear for billing periods that haven't closed (marked as Pending billing status) in Amazon Web Services Billing. For more information, see Viewing your monthly charges in the Amazon Web
Services Billing User Guide. </note>",
"StopProductSubscription": " Stops a product subscription for a user with the specified identity provider. ",

"UpdateIdentityProviderSettings": " Updates additional product configuration settings for the registered identity provider. "
},
"shapes": {
"AccessDeniedException": {
"base": " You don't have sufficient access to perform this action. ",
"refs": {
}
},
"ActiveDirectoryIdentityProvider": {
"base": " Details about an Active Directory identity provider. ",
"refs": {
"IdentityProvider$ActiveDirectoryIdentityProvider": " An object that details an Active Directory identity provider. "
}
},
"AssociateUserRequest": {
"base": null,
"refs": {
}
},
"AssociateUserResponse": {
"base": null,
"refs": {
}
},
"BoxInteger": {
"base": null,
"refs": {
"ListIdentityProvidersRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListInstancesRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListProductSubscriptionsRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListUserAssociationsRequest$MaxResults": " Maximum number of results to return in a single call. "
}
},
"ConflictException": {
"base": " The request couldn't be completed because it conflicted with the current state of the resource. ",
"refs": {
}
},
"DeregisterIdentityProviderRequest": {
"base": null,
"refs": {
}
},
"DeregisterIdentityProviderResponse": {

"base": null,
"refs": {
}
},
"DisassociateUserRequest": {
"base": null,
"refs": {
}
},
"DisassociateUserResponse": {
"base": null,
"refs": {
}
},
"Filter": {
"base": " A
filter name and value pair that is used to return more specific results from a describe operation. Filters can be used to match a set of resources by specific criteria, such as tags, attributes, or IDs. ",
"refs": {
"FilterList$member": null
}
},
"FilterList": {
"base": null,
"refs": {
"ListInstancesRequest$Filters": " An array of structures that you can use to filter the results to those that match one or more sets of key-value pairs that you specify. ",
"ListProductSubscriptionsRequest$Filters": " An array of structures that you can use to filter the results to those that match one or more sets of key-value pairs that you specify. ",
"ListUserAssociationsRequest$Filters": " An array of structures that you can use to filter the results to those that match one or more sets of key-value pairs that you specify. "
}
},
"IdentityProvider": {
"base": " Details about an identity provider. ",
"refs": {
"AssociateUserRequest$IdentityProvider": " The identity provider of the user. ",
"DeregisterIdentityProviderRequest$IdentityProvider": " An object that specifies details for the identity provider. ",
"DisassociateUserRequest$IdentityProvider": " An object that specifies details for the identity provider. ",
"IdentityProviderSummary$IdentityProvider": " An object that specifies details for the identity provider. ",
"InstanceUserSummary$IdentityProvider": " An object that specifies details for the identity provider. ",
"ListProductSubscriptionsRequest$IdentityProvider": " An object that specifies details for the identity provider. ",
"ListUserAssociationsRequest$IdentityProvider": " An object that specifies details for the identity provider. ",

"ProductUserSummary$IdentityProvider": " An object that specifies details for the identity provider. ",
"RegisterIdentityProviderRequest$IdentityProvider":
" An object that specifies details for the identity provider. ",
"StartProductSubscriptionRequest$IdentityProvider": " An object that specifies details for the identity provider. ",
"StopProductSubscriptionRequest$IdentityProvider": " An object that specifies details for the identity provider. ",
"UpdateIdentityProviderSettingsRequest$IdentityProvider": null
}
},
"IdentityProviderSummary": {
"base": " Describes an identity provider. ",
"refs": {
"DeregisterIdentityProviderResponse$IdentityProviderSummary": " Metadata that describes the results of an identity provider operation. ",
"IdentityProviderSummaryList$member": null,
"RegisterIdentityProviderResponse$IdentityProviderSummary": " Metadata that describes the results of an identity provider operation. ",
"UpdateIdentityProviderSettingsResponse$IdentityProviderSummary": null

}
},
"IdentityProviderSummaryList": {
"base": null,
"refs": {
"ListIdentityProvidersResponse$IdentityProviderSummaries": " Metadata that describes the list identity providers operation. "
}
},
"InstanceSummary": {
"base": " Describes an EC2 instance providing user-based subscriptions. ",
"refs": {
"InstanceSummaryList$member": null
}
},
"InstanceSummaryList": {
"base": null,
"refs": {
"ListInstancesResponse$InstanceSummaries": " Metadata that describes the list instances operation. "
}
},
"InstanceUserSummary": {
"base": " Describes users of an EC2 instance providing user-based subscriptions. ",
"refs": {
"AssociateUserResponse$InstanceUserSummary": " Metadata that describes the associate user operation. ",
"DisassociateUserResponse$InstanceUserSummary": " Metadata that describes the associate user operation. ",

"InstanceUserSummaryList$member": null
}
},
"InstanceUserSummaryList": {
"base": null,
"refs": {
"ListUserAssociationsResponse$InstanceUserSummaries": " Metadata that describes the list user association operation. "
}
},
"InternalServerException": {
"base": " An exception occurred with the service. ",
"refs": {
}
},
"ListIdentityProvidersRequest": {
"base": null,
"refs": {
}
},
"ListIdentityProvidersResponse": {
"base": null,
"refs": {
}
},
"ListInstancesRequest": {
"base": null,
"refs": {
}
},
"ListInstancesResponse": {
"base": null,
"refs": {
}
},
"ListProductSubscriptionsRequest": {
"base": null,
"refs": {
}
},
"ListProductSubscriptionsResponse": {
"base": null,
"refs": {
}
},
"ListUserAssociationsRequest": {
"base": null,

"refs": {
}
},
"ListUserAssociationsResponse": {
"base": null,
"refs": {
}
},
"ProductUserSummary": {
"base": " The summary of the user-based subscription products for a user. ",
"refs": {
"ProductUserSummaryList$member": null,
"StartProductSubscriptionResponse$ProductUserSummary": " Metadata that describes the start product subscription operation. ",
"StopProductSubscriptionResponse$ProductUserSummary": " Metadata that describes the start product subscription operation. "
}
},
"ProductUserSummaryList": {
"base": null,
"refs": {
"ListProductSubscriptionsResponse$ProductUserSummaries": " Metadata that describes the list product subscriptions operation. "
}
},
"RegisterIdentityProviderRequest": {
"base": null,
"refs": {
}
},
"RegisterIdentityProviderResponse": {
"base": null,
"refs": {
}
},
"ResourceNotFoundException":
{
"base": " The resource couldn't be found. ",
"refs": {
}
},
"SecurityGroup": {
"base": null,
"refs": {
"Settings$SecurityGroupId": " A security group ID that allows inbound TCP port 1688 communication between resources in your VPC and the VPC endpoint for activation servers. ",
"UpdateSettings$SecurityGroupId": " A security group ID that allows inbound TCP port 1688 communication between resources in your VPC and the VPC endpoints for activation servers. "

```
    }
  },
  "ServiceQuotaExceededException": {
    "base": "<p>The request failed because a service quota is exceeded.</p>",
    "refs": {
    }
  },
  "Settings": {
    "base": "<p>The registered identity providers product related configuration settings such as the subnets to provision VPC endpoints, and the security group ID that is associated with the VPC endpoints. The security group should permit inbound TCP port 1688 communication
 from resources in the VPC.</p>",
    "refs": {
      "IdentityProviderSummary$Settings": "<p>An object that details the registered identity providers product related configuration settings such as the subnets to provision VPC endpoints.</p>",
      "RegisterIdentityProviderRequest$Settings": "<p>The registered identity providers product related configuration settings such as the subnets to provision VPC endpoints.</p>"
    }
  },
  "SettingsSubnetsList": {
    "base": null,
    "refs": {
      "Settings$Subnets": "<p>The subnets defined for the registered identity provider.</p>"
    }
  },
  "StartProductSubscriptionRequest": {
    "base": null,
    "refs": {
    }
  },
  "StartProductSubscriptionResponse": {
    "base": null,
    "refs": {
    }
  },
  "StopProductSubscriptionRequest": {
    "base": null,
    "refs": {
    }
  },
  "StopProductSubscriptionResponse": {
    "base": null,
    "refs": {
    }
  },
  "String":
 {
    "base": null,
```

"refs": {
"AccessDeniedException$message": null,
"ActiveDirectoryIdentityProvider$DirectoryId": " The directory ID for an Active Directory identity provider. ",
"AssociateUserRequest$Domain": " The domain name of the user. ",
"AssociateUserRequest$InstanceId": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"AssociateUserRequest$Username": " The user name from the identity provider for the user. ",
"ConflictException$message": null,
"DeregisterIdentityProviderRequest$Product": " The name of the user-based subscription product. ",
"DisassociateUserRequest$Domain": " The domain name of the user. ",
"DisassociateUserRequest$InstanceId": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"DisassociateUserRequest$Username": " The user name from the identity provider for the user. ",

"Filter$Attribute": " The name of an attribute to use as a filter. ",
"Filter$Operation": " The type of search (For example, eq, geq, leq) ",
"Filter$Value": " Value of the filter. ",
"IdentityProviderSummary$FailureMessage": " The failure message associated with an identity provider. ",
"IdentityProviderSummary$Product": " The name of the user-based subscription product. ",
"IdentityProviderSummary$Status": " The status of an identity provider. ",
"InstanceSummary$InstanceId": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"InstanceSummary$LastStatusCheckDate": " The date of the last status check. ",
"InstanceSummary$Status": " The status of an EC2 instance resource. ",
"InstanceSummary$StatusMessage": " The status message for an EC2 instance. ",
"InstanceUserSummary$AssociationDate": " The date a user was associated with an EC2 instance. ",
"InstanceUserSummary$DisassociationDate": " The date a user was disassociated from an EC2 instance. ",
"InstanceUserSummary$Domain": " The domain name of the user. ",
"InstanceUserSummary$InstanceId": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"InstanceUserSummary$Status": " The status of a user associated with an EC2 instance. ",
"InstanceUserSummary$StatusMessage": " The status message for users of an EC2 instance. ",
"InstanceUserSummary$Username": " The user name from the identity provider for the user. ",
"InternalServerException$message": null,
"ListIdentityProvidersRequest$NextToken": " Token for the next set of results. ",
"ListIdentityProvidersResponse$NextToken": " Token for the next set of results. ",
"ListInstancesRequest$NextToken": " Token for the next set of results. ",
"ListInstancesResponse$NextToken": " Token for the next set of results. ",
"ListProductSubscriptionsRequest$NextToken": " Token for the next set of results. ",
"ListProductSubscriptionsRequest$Product": " The name of the user-based subscription product. ",
"ListProductSubscriptionsResponse$NextToken": " Token for the next set of results. ",
"ListUserAssociationsRequest$InstanceId": " The ID of the EC2 instance, which provides user-based subscriptions. ",

"ListUserAssociationsRequest$NextToken": " Token for the next set of results. ",
"ListUserAssociationsResponse$NextToken": " Token for the next set of results. ",
"ProductUserSummary$Domain": " The domain name of the user. ",
"ProductUserSummary$Product": " The name of the user-based subscription product. ",
"ProductUserSummary$Status": " The status of a product for a user. ",
"ProductUserSummary$StatusMessage": " The status
message for a product for a user. ",
"ProductUserSummary$SubscriptionEndDate": " The end date of a subscription. ",
"ProductUserSummary$SubscriptionStartDate": " The start date of a subscription. ",
"ProductUserSummary$Username": " The user name from the identity provider of the user. ",
"RegisterIdentityProviderRequest$Product": " The name of the user-based subscription product. ",
"ResourceNotFoundException$message": null,
"ServiceQuotaExceededException$message": null,
"StartProductSubscriptionRequest$Domain": " The domain name of the user. ",
"StartProductSubscriptionRequest$Product": " The name of the user-based subscription product. ",
"StartProductSubscriptionRequest$Username": " The user name from the identity provider of the user. ",
"StopProductSubscriptionRequest$Domain": " The domain name of the user. ",
"StopProductSubscriptionRequest$Product":
" The name of the user-based subscription product. ",
"StopProductSubscriptionRequest$Username": " The user name from the identity provider for the
user. ",
"StringList$member": null,
"ThrottlingException$message": null,
"UpdateIdentityProviderSettingsRequest$Product": " The name of the user-based subscription
product. ",
"ValidationException$message": null
}
},
"StringList": {
"base": null,
"refs": {
"InstanceSummary$Products": " A list of provided user-based subscription products. "
}
},
"Subnet": {
"base": null,
"refs": {
"SettingsSubnetsList$member": null,
"Subnets$member": null
}
},
"Subnets": {
"base": null,
"refs": {
"UpdateSettings$AddSubnets": " The ID of one or more subnets in which License Manager will create a
VPC endpoint for products that require connectivity to activation servers. ",
"UpdateSettings$RemoveSubnets":

" The ID of one or more subnets to remove. "
    }
  },
  "ThrottlingException": {
    "base": " The request was denied because of request throttling. Retry the request. ",
    "refs": {
    }
  },
  "UpdateIdentityProviderSettingsRequest": {
    "base": null,
    "refs": {
    }
  },
  "UpdateIdentityProviderSettingsResponse": {
    "base": null,
    "refs": {
    }
  },
  "UpdateSettings": {
    "base": " Updates the registered identity providers product related configuration settings such as the subnets to provision VPC endpoints. ",
    "refs": {
      "UpdateIdentityProviderSettingsRequest$UpdateSettings": " Updates the registered identity providers product related configuration settings. You can update any combination of settings in a single operation such as the: <ul> Subnets which you want to add to provision VPC endpoints.   Subnets which you want to remove the VPC endpoints
 from.   Security group ID which permits traffic to the VPC endpoints. "
    }
  },
  "ValidationException": {
    "base": " A parameter is not valid. ",
    "refs": {
    }
  }
 }
}
{
  "version": "1.0",
  "parameters": {
    "Region": {
      "builtIn": "AWS::Region",
      "required": false,
      "documentation": "The AWS region used to dispatch the request.",
      "type": "String"
    },
    "UseDualStack": {
      "builtIn": "AWS::UseDualStack",
      "required": true,

"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {

"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}
},
"rules": [
{
"conditions": [
{
"fn": "aws.partition",
"argv": [
{
"ref": "Region"
}
],
"assign": "PartitionResult"
}
],
"type": "tree",
"rules": [
{
"conditions": [
{
"fn": "isSet",
"argv": [
{
"ref": "Endpoint"
}
]
},
{
"fn": "parseURL",

```
        "argv": [
            {
                "ref": "Endpoint"
            }
        ],
        "assign": "url"
    }
],
"type": "tree",
"rules": [
    {
        "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [
                    {
                        "ref": "UseFIPS"
                    },
                    true
                ]
            }
        ],
        "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
        "type": "error"
    },
    {
        "conditions": [],
        "type": "tree",
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseDualStack"
                            },
                            true
                        ]
                    }
                ],
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                "type": "error"
            },

        {
                "conditions": [],
```

```
                "endpoint": {
                  "url": {
                    "ref": "Endpoint"
                  },
                  "properties": {},
                  "headers": {}
                },
                "type": "endpoint"
              }
            ]
          }
        ]
      },
      {
        "conditions": [
          {
            "fn": "booleanEquals",
            "argv": [
              {
                "ref": "UseFIPS"
              },
              true
            ]

},
          {
            "fn": "booleanEquals",
            "argv": [
              {
                "ref": "UseDualStack"
              },
              true
            ]
          }
        ],
        "type": "tree",
        "rules": [
          {
            "conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  true,
                  {
                    "fn": "getAttr",
                    "argv": [
                      {
                        "ref": "PartitionResult"
```

```
            },
                        "supportsFIPS"
                    ]
                }
            ]
        },
        {
            "fn": "booleanEquals",
            "argv": [
                true,
                {
                    "fn": "getAttr",
                    "argv": [
                        {
                            "ref": "PartitionResult"
                        },
                        "supportsDualStack"
                    ]
                }
            ]
        }

        ],
            "type": "tree",
            "rules": [
                {
                    "conditions": [],
                    "endpoint": {
                        "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                        "properties": {},
                        "headers": {}
                    },
                    "type": "endpoint"
                }
            ]
        },
        {
            "conditions": [],
            "error": "FIPS and DualStack are enabled, but this partition does not support one or both",
            "type": "error"
        }
    ]
},

{
    "conditions": [
```

```
            {
              "fn": "booleanEquals",
              "argv": [
                {
                  "ref": "UseFIPS"
                },
                true
              ]
            }
          ],
          "type": "tree",
          "rules": [
            {
              "conditions": [
                {
                  "fn": "booleanEquals",
                  "argv": [
                    true,
                    {
                      "fn": "getAttr",
                      "argv": [
                        {
                          "ref": "PartitionResult"
                         },
                        "supportsFIPS"
                      ]
                    }
                  ]
                }
              ],
              "type": "tree",
              "rules": [
                {
                  "conditions": [],
                  "endpoint": {
                    "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                    "properties": {},
                    "headers": {}
                  },
                  "type": "endpoint"
                }
              ]
            },
            {

        "conditions": [],
              "error": "FIPS is enabled but this partition does not support FIPS",
```

```
                "type": "error"
            }
        ]
    },
    {
        "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [
                    {
                        "ref": "UseDualStack"
                    },
                    true
                ]
            }
        ],
        "type": "tree",
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            true,

    {
                            "fn": "getAttr",
                            "argv": [
                                {
                                    "ref": "PartitionResult"
                                },
                                "supportsDualStack"
                            ]
                        }
                    ]
                }
            ],
            "type": "tree",
            "rules": [
                {
                    "conditions": [],
                    "endpoint": {
                        "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                        "properties": {},

            "headers": {}
                    },
```

"type": "endpoint"
}
]
},
{
"conditions": [],
"error": "DualStack is enabled but this partition does not support DualStack",
"type": "error"
}
]
},
{
"conditions": [],
"endpoint": {
"url": "https://license-manager-user-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
}
]
}
{
"version": "2.0",
"service": " With License Manager, you can discover and track your commercial Linux subscriptions on running Amazon EC2 instances. ",
"operations": {
"DeregisterSubscriptionProvider": " Remove a third-party subscription provider from the Bring Your Own License (BYOL) subscriptions registered to your account. ",
"GetRegisteredSubscriptionProvider": " Get details for a Bring Your Own License (BYOL) subscription that's registered to your account. ",
"GetServiceSettings": " Lists the Linux subscriptions service settings for your account. ",
"ListLinuxSubscriptionInstances": " Lists the running Amazon EC2 instances that were discovered with commercial Linux subscriptions. ",
"ListLinuxSubscriptions": " Lists the Linux subscriptions that have been discovered. If you have linked your organization, the returned results will include data aggregated across your accounts in Organizations. ",
"ListRegisteredSubscriptionProviders":
" List Bring Your Own License (BYOL) subscription registration resources for your account. ",
"ListTagsForResource": " List the metadata tags that are assigned to the specified Amazon Web Services resource. ",
"RegisterSubscriptionProvider": " Register the supported third-party subscription provider for your Bring Your Own License (BYOL) subscription. ",
"TagResource": " Add metadata tags to the specified Amazon Web Services resource. ",
"UntagResource": " Remove one or more metadata tag from the specified Amazon Web Services resource. ",
"UpdateServiceSettings": " Updates the service settings for Linux subscriptions. "

},
"shapes": {
"Boolean": {
"base": null,
"refs": {
"UpdateServiceSettingsRequest$AllowUpdate": " Describes if updates are allowed to the service settings for Linux subscriptions. If you allow updates, you can aggregate Linux subscription data in more than one home Region. "
}
},
"BoxInteger": {
"base": null,
"refs": {
"ListLinuxSubscriptionInstancesRequest$MaxResults": " The maximum items to return in a request. ",
"ListLinuxSubscriptionsRequest$MaxResults": " The maximum items to return in a request. "
}
},
"BoxLong": {
"base": null,
"refs": {
"Subscription$InstanceCount": " The total amount of running instances using this subscription. "
}
},
"DeregisterSubscriptionProviderRequest": {
"base": null,
"refs": {
}
},
"DeregisterSubscriptionProviderResponse": {
"base": null,
"refs": {
}
},
"Filter": {
"base": " A filter object that is used to return more specific results from a describe operation. Filters can be used to match a set of resources by specific criteria. ",
"refs": {
"FilterList$member": null
}
},
"FilterList": {
"base": null,
"refs": {

"ListLinuxSubscriptionInstancesRequest$Filters": " An array of structures that you can use to filter the results by your specified criteria. For example, you can specify <code>Region</code> in the <code>Name</code>, with the <code>contains</code> operator to list all subscriptions that match a partial string in the <code>Value</code>, such as <code>us-west</code>. For each filter, you can specify one of the following values for the

<code>Name</code> key to streamline results: <ul> <code>AccountID</code>   <code>AmiID</code>   <code>DualSubscription</code>   <code>InstanceID</code>   <code>InstanceType</code>   <code>ProductCode</code>   <code>Region</code>   <code>Status</code>   <code>UsageOperation</code>   For each filter, you can use one of the following <code>Operator</code> values to define the behavior
 of the filter: <ul> <code>contains</code>   <code>equals</code>   <code>Notequal</code> ",
      "ListLinuxSubscriptionsRequest$Filters": " An array of structures that you can use to filter the results to those that match one or more sets of key-value pairs that you specify. For example, you can filter by the name of <code>Subscription</code> with an optional operator to see subscriptions that match, partially match, or don't match a certain subscription's name. The valid names for this filter are: <ul> <code>Subscription</code>   The valid Operators for this filter are: <ul> <code>contains</code>   <code>equals</code>   <code>Notequal</code> "
    }
  },
  "GetRegisteredSubscriptionProviderRequest": {
    "base": null,
    "refs": {
    }
  },
  "GetRegisteredSubscriptionProviderResponse": {
    "base": null,
    "refs": {
    }
  },
  "GetServiceSettingsRequest": {
    "base": null,
    "refs": {
    }
  },
  "GetServiceSettingsResponse": {
    "base": null,
    "refs": {
    }
  },
  "Instance": {
    "base": " Details discovered information about a running instance using Linux subscriptions. ",
    "refs": {
      "InstanceList$member": null
    }
  },
  "InstanceList": {
    "base": null,
    "refs": {
      "ListLinuxSubscriptionInstancesResponse$Instances": " An array that contains instance objects. "
    }

},
"InternalServerException": {
"base": " An exception occurred with the service. ",
"refs": {
}
},
"LinuxSubscriptionsDiscovery": {
"base": null,
"refs": {
"GetServiceSettingsResponse$LinuxSubscriptionsDiscovery": " Lists if discovery has been enabled for Linux subscriptions. ",
"UpdateServiceSettingsRequest$LinuxSubscriptionsDiscovery": " Describes if the discovery of Linux subscriptions is enabled. ",
"UpdateServiceSettingsResponse$LinuxSubscriptionsDiscovery": " Lists if discovery has been enabled for Linux subscriptions. "
}
},
"LinuxSubscriptionsDiscoverySettings": {
"base": " Lists the settings defined for discovering Linux subscriptions. ",
"refs": {
"GetServiceSettingsResponse$LinuxSubscriptionsDiscoverySettings": " Lists the settings defined for Linux subscriptions discovery. The settings include if Organizations integration has been enabled, and which Regions data will be aggregated from. ",
"UpdateServiceSettingsRequest$LinuxSubscriptionsDiscoverySettings": " The settings defined for Linux subscriptions discovery. The settings include if Organizations integration has been enabled, and which Regions data will be aggregated from. ",
"UpdateServiceSettingsResponse$LinuxSubscriptionsDiscoverySettings": " The settings defined for Linux subscriptions discovery. The settings include if Organizations integration has been enabled, and which Regions data will be aggregated from. "
}
},
"ListLinuxSubscriptionInstancesRequest": {
"base": " NextToken length limit is half of ddb accepted limit. Increase this limit if parameters in request increases. ",
"refs": {
}
},
"ListLinuxSubscriptionInstancesRequestNextTokenString": {
"base": null,
"refs": {
"ListLinuxSubscriptionInstancesRequest$NextToken": " A token to specify where to start paginating. This is the nextToken from a previously truncated response. "
}
},
"ListLinuxSubscriptionInstancesResponse": {
"base": null,
"refs": {
}

},
"ListLinuxSubscriptionsRequest": {
"base": " NextToken length limit is half of ddb accepted limit. Increase this limit if parameters in request increases. ",
"refs": {
}
},
"ListLinuxSubscriptionsRequestNextTokenString":
{
"base": null,
"refs": {
"ListLinuxSubscriptionsRequest$NextToken": " A token to specify where to start paginating. This is the nextToken from a previously truncated response. "
}
},
"ListLinuxSubscriptionsResponse": {
"base": null,
"refs": {
}
},
"ListRegisteredSubscriptionProvidersRequest": {
"base": null,
"refs": {
}
},
"ListRegisteredSubscriptionProvidersRequestMaxResultsInteger": {
"base": null,
"refs": {
"ListRegisteredSubscriptionProvidersRequest$MaxResults": " The maximum items to return in a request. "
}
},
"ListRegisteredSubscriptionProvidersResponse": {
"base": null,
"refs": {
}
},
"ListTagsForResourceRequest": {
"base": null,
"refs": {
}
},
"ListTagsForResourceResponse": {
"base": null,
"refs": {
}
},
"Operator": {

"base": null,
"refs":
{
"Filter$Operator": " An operator for filtering results. "
}
},
"OrganizationIntegration": {
"base": null,
"refs": {
"LinuxSubscriptionsDiscoverySettings$OrganizationIntegration": " Details if you have enabled resource discovery across your accounts in Organizations. "
}
},
"ProductCodeList": {
"base": null,
"refs": {
"Instance$ProductCode": " The product code for the instance. For more information, see Usage operation values in the License Manager User Guide . "
}
},
"RegisterSubscriptionProviderRequest": {
"base": null,
"refs": {
}
},
"RegisterSubscriptionProviderResponse": {
"base": null,
"refs": {
}
},
"RegisteredSubscriptionProvider": {
"base": " A third-party provider for operating system (OS) platform software and license subscriptions, such as Red Hat. When you register a third-party Linux subscription provider, License Manager can get subscription data from the registered provider. ",
"refs": {
"RegisteredSubscriptionProviderList$member": null
}
},
"RegisteredSubscriptionProviderList": {
"base": null,
"refs": {
"ListRegisteredSubscriptionProvidersResponse$RegisteredSubscriptionProviders": " The list of BYOL registration resources that fit the criteria you specified in the request. "
}
},
"ResourceNotFoundException": {
"base": " Unable to find the requested Amazon Web Services resource. ",

"refs": {
}
},
"SecretArn": {
"base": null,
"refs": {
"GetRegisteredSubscriptionProviderResponse$SecretArn": " The Amazon Resource Name (ARN) of the third-party access secret stored in Secrets Manager for the BYOL registration resource specified in the request. ",
"RegisterSubscriptionProviderRequest$SecretArn": " The Amazon Resource Name (ARN) of the secret where you've stored your subscription provider's access token. For RHEL subscriptions managed through the Red Hat Subscription Manager (RHSM), the secret contains your Red Hat Offline token. ",
"RegisteredSubscriptionProvider$SecretArn": " The Amazon Resource Name (ARN) of the Secrets Manager secret that stores your registered Linux subscription provider access token. For RHEL account subscriptions, this is the offline token. "
}
},
"Status": {
"base": null,
"refs": {
"GetServiceSettingsResponse$Status": " Indicates the status of Linux subscriptions settings being applied. ",
"UpdateServiceSettingsResponse$Status": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"String": {
"base": null,
"refs": {
"Filter$Name": " The type of name to filter by. ",
"GetRegisteredSubscriptionProviderResponse$LastSuccessfulDataRetrievalTime": " The timestamp from the last time License Manager retrieved subscription details from your registered third-party Linux subscription provider. ",
"GetRegisteredSubscriptionProviderResponse$SubscriptionProviderStatusMessage": " The detailed message from your subscription provider token status. ",
"Instance$AccountID": " The account ID which owns the instance. ",
"Instance$AmiId": " The AMI ID used to launch the instance. ",
"Instance$DualSubscription": " Indicates that you have two different license subscriptions for the same software on your instance. ",
"Instance$InstanceID": " The instance ID of the resource. ",
"Instance$InstanceType": " The instance type of the resource. ",
"Instance$LastUpdatedTime": " The time in which the last discovery updated the instance details. ",
"Instance$OsVersion":
" The operating system software version that runs on your instance. ",
"Instance$Region": " The Region the instance is running in. ",
"Instance$RegisteredWithSubscriptionProvider": " Indicates that your instance uses a BYOL license subscription from a third-party Linux subscription provider that you've registered with License Manager. ",
"Instance$Status": " The status of the instance. ",

"Instance$SubscriptionName": " The name of the license subscription that the instance uses. ",
"Instance$SubscriptionProviderCreateTime": " The timestamp when you registered the third-party Linux subscription provider for the subscription that the instance uses. ",
"Instance$SubscriptionProviderUpdateTime": " The timestamp from the last time that the instance synced with the registered third-party Linux subscription provider. ",
"Instance$UsageOperation": " The usage operation of the instance. For more information, see For more information, see Usage operation values in the License Manager User Guide. ",
"InternalServerException$message": null,
"ListLinuxSubscriptionInstancesResponse$NextToken": " The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects. ",
"ListLinuxSubscriptionsResponse$NextToken": " The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects. ",
"ListRegisteredSubscriptionProvidersRequest$NextToken": " A token to specify where to start paginating. This is the nextToken from a previously truncated response. ",
"ListRegisteredSubscriptionProvidersResponse$NextToken": " The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects. ",
"ProductCodeList$member": null,
"RegisterSubscriptionProviderResponse$SubscriptionProviderArn": " The Amazon Resource Name (ARN) of the Linux subscription provider resource that you registered. ",
"RegisteredSubscriptionProvider$LastSuccessfulDataRetrievalTime": " The timestamp from the last time that License Manager accessed third-party subscription data for your account from your registered Linux subscription provider. ",
"RegisteredSubscriptionProvider$SubscriptionProviderStatusMessage": " A detailed message that's associated with your BYOL subscription provider token status. ",
"ResourceNotFoundException$message": null,
"StringMap$key": null,
"StringMap$value": null,
"Subscription$Name": " The name of the subscription. ",
"Subscription$Type": " The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS. ",
"TagKeyList$member": null,
"Tags$key": null,
"Tags$value": null,
"ThrottlingException$message": null,
"ValidationException$message": null
}
},
"StringList": {
"base": null,

"refs": {
"Filter$Values": " One or more values for the name to filter by. ",
"GetServiceSettingsResponse$HomeRegions": " The Region in which License Manager displays the aggregated data for Linux subscriptions. ",
"LinuxSubscriptionsDiscoverySettings$SourceRegions": " The Regions in which to discover data for Linux subscriptions. ",
"UpdateServiceSettingsResponse$HomeRegions": " The Region in which License Manager displays the aggregated data for Linux subscriptions. "
}
},
"StringListMemberString": {
"base": null,
"refs": {
"StringList$member": null
}
},
"StringMap": {
"base": null,
"refs": {
"GetServiceSettingsResponse$StatusMessage": " A message which details the Linux subscriptions service settings current status. ",
"UpdateServiceSettingsResponse$StatusMessage": " A message which details the Linux subscriptions service settings current status. "
}
},
"Subscription": {
"base": " An object which details a discovered Linux subscription. ",
"refs": {
"SubscriptionList$member": null
}
},
"SubscriptionList": {
"base": null,
"refs": {
"ListLinuxSubscriptionsResponse$Subscriptions": " An array that contains subscription objects. "
}
},
"SubscriptionProviderArn": {
"base": null,
"refs": {
"DeregisterSubscriptionProviderRequest$SubscriptionProviderArn": " The Amazon Resource Name (ARN) of the subscription provider resource to deregister. ",
"GetRegisteredSubscriptionProviderRequest$SubscriptionProviderArn": " The Amazon Resource Name (ARN) of the BYOL registration resource to get details for. ",
"GetRegisteredSubscriptionProviderResponse$SubscriptionProviderArn": " The Amazon Resource Name (ARN) for the BYOL registration resource specified in the request. ",
"ListTagsForResourceRequest$resourceArn": " The Amazon Resource Name (ARN) of the resource for

which to list metadata tags. ",
"RegisteredSubscriptionProvider$SubscriptionProviderArn": " The Amazon Resource Name (ARN) of the Linux subscription provider resource that you registered. ",
"TagResourceRequest$resourceArn": " The Amazon Resource Name (ARN) of the Amazon Web Services resource to which to add the specified metadata tags. ",
"UntagResourceRequest$resourceArn": " The Amazon Resource Name (ARN) of the Amazon Web Services resource to remove the metadata tags from. "
}
},
"SubscriptionProviderSource": {
"base": null,
"refs": {
"GetRegisteredSubscriptionProviderResponse$SubscriptionProviderSource": " The subscription provider for the BYOL registration resource specified in the request. ",
"RegisterSubscriptionProviderRequest$SubscriptionProviderSource": " The supported Linux subscription provider to register. ",
"RegisterSubscriptionProviderResponse$SubscriptionProviderSource": " The Linux subscription provider that you registered. ",
"RegisteredSubscriptionProvider$SubscriptionProviderSource": " A supported third-party Linux subscription provider. License
Manager currently supports Red Hat subscriptions. ",
"SubscriptionProviderSourceList$member": null
}
},
"SubscriptionProviderSourceList": {
"base": null,
"refs": {
"ListRegisteredSubscriptionProvidersRequest$SubscriptionProviderSources": " To filter your results, specify which subscription providers to return in the list. "
}
},
"SubscriptionProviderStatus": {
"base": null,
"refs": {
"GetRegisteredSubscriptionProviderResponse$SubscriptionProviderStatus": " The status of the Linux subscription provider access token from the last successful subscription data request. ",
"RegisterSubscriptionProviderResponse$SubscriptionProviderStatus": " Indicates the status of the registration action for the Linux subscription provider that you requested. ",
"RegisteredSubscriptionProvider$SubscriptionProviderStatus": " Indicates the status of your registered Linux subscription provider access
token from the last time License Manager retrieved subscription data. For RHEL account subscriptions, this is the status of the offline token. "
}
},
"TagKeyList": {
"base": null,
"refs": {
"UntagResourceRequest$tagKeys": " A list of metadata tag keys to remove from the requested

resource. "
    }
  },
  "TagResourceRequest": {
    "base": null,
    "refs": {
    }
  },
  "TagResourceResponse": {
    "base": null,
    "refs": {
    }
  },
  "Tags": {
    "base": null,
    "refs": {
      "ListTagsForResourceResponse$tags": " The metadata tags for the requested resource. ",
      "RegisterSubscriptionProviderRequest$Tags": " The metadata tags to assign to your registered Linux subscription provider resource. ",
      "TagResourceRequest$tags": " The metadata tags to assign to the Amazon Web Services resource. Tags are formatted as key value pairs. "
    }
  },
  "ThrottlingException": {
    "base": " The request was denied due to request throttling. ",
    "refs": {
    }
  },
  "UntagResourceRequest": {
    "base": null,
    "refs": {
    }
  },
  "UntagResourceResponse": {
    "base": null,
    "refs": {
    }
  },
  "UpdateServiceSettingsRequest": {
    "base": null,
    "refs": {
    }
  },
  "UpdateServiceSettingsResponse": {
    "base": null,
    "refs": {
    }
  },

"ValidationException": {
"base": " The provided input is not valid. Try your request again. ",
"refs": {
}
}
}
}
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{
"testCases": [
{
"documentation": "For region ap-south-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.ap-south-1.api.aws"
}
},
"params": {
"UseFIPS": true,
"Region": "ap-south-1",
"UseDualStack": true
}
},
{
"documentation": "For region ap-south-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.ap-south-1.amazonaws.com"
}
},
"params": {
"UseFIPS": true,
"Region": "ap-south-1",
"UseDualStack": false
}
},
{
"documentation": "For region ap-south-1 with FIPS disabled
and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.ap-south-1.api.aws"
}
},
"params": {
"UseFIPS": false,

```
        "Region": "ap-south-1",
        "UseDualStack": true
    }
},
{
    "documentation": "For region ap-south-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-user-subscriptions.ap-south-1.amazonaws.com"
        }
    },
    "params": {
        "UseFIPS": false,
        "Region": "ap-south-1",
        "UseDualStack": false
    }
},
{
    "documentation": "For region eu-south-1 with FIPS enabled and DualStack enabled",
    "expect": {
        "endpoint": {
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    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListResourceInventory":{
  "name":"ListResourceInventory",
  "http":{
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  },
  "input":{"shape":"ListResourceInventoryRequest"},
  "output":{"shape":"ListResourceInventoryResponse"},
   "errors":[
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    {"shape":"ServerInternalException"},
    {"shape":"FilterLimitExceededException"},
    {"shape":"FailedDependencyException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListTagsForResource":{
  "name":"ListTagsForResource",
  "http":{
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  "input":{"shape":"ListTagsForResourceRequest"},
  "output":{"shape":"ListTagsForResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListTokens":{
  "name":"ListTokens",
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"http":{
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"requestUri":"/"
},
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"output":{"shape":"ListTokensResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"},
{"shape":"ServerInternalException"}
]
},
"ListUsageForLicenseConfiguration":{
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"http":{
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},
"input":{"shape":"ListUsageForLicenseConfigurationRequest"},
"output":{"shape":"ListUsageForLicenseConfigurationResponse"},
"errors":[
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{"shape":"FilterLimitExceededException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
]
},
"RejectGrant":{
"name":"RejectGrant",
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"output":{"shape":"RejectGrantResponse"},
"errors":[
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{"shape":"InvalidParameterValueException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"},
{"shape":"ResourceLimitExceededException"},
{"shape":"ServerInternalException"}

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  ]
},
"TagResource":{
  "name":"TagResource",
  "http":{
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    "requestUri":"/"
  },
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  "output":{"shape":"TagResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
   ]
},
"UntagResource":{
  "name":"UntagResource",
  "http":{
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    "requestUri":"/"
  },
  "input":{"shape":"UntagResourceRequest"},
  "output":{"shape":"UntagResourceResponse"},
  "errors":[
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    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"UpdateLicenseConfiguration":{
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  "http":{
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    "requestUri":"/"
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  "input":{"shape":"UpdateLicenseConfigurationRequest"},
  "output":{"shape":"UpdateLicenseConfigurationResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
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{"shape":"RateLimitExceededException"},
{"shape":"ResourceLimitExceededException"}
]
},
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"name":"UpdateLicenseManagerReportGenerator",
"http":{
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},
"input":{"shape":"UpdateLicenseManagerReportGeneratorRequest"},
"output":{"shape":"UpdateLicenseManagerReportGeneratorResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"RateLimitExceededException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"ResourceNotFoundException"},
{"shape":"ResourceLimitExceededException"}
]
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"name":"UpdateLicenseSpecificationsForResource",
"http":{
"method":"POST",
"requestUri":"/"

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"input":{"shape":"UpdateLicenseSpecificationsForResourceRequest"},
"output":{"shape":"UpdateLicenseSpecificationsForResourceResponse"},
"errors":[
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{"shape":"InvalidResourceStateException"},
{"shape":"LicenseUsageException"},
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{"shape":"RateLimitExceededException"}
]
},
"UpdateServiceSettings":{
"name":"UpdateServiceSettings",
"http":{
"method":"POST",
"requestUri":"/"
},

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    "input":{"shape":"UpdateServiceSettingsRequest"},
    "output":{"shape":"UpdateServiceSettingsResponse"},
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      {"shape":"ServerInternalException"},
      {"shape":"AuthorizationException"},
      {"shape":"AccessDeniedException"},
      {"shape":"RateLimitExceededException"}
     ]
  }
},
"shapes":{
  "AcceptGrantRequest":{
    "type":"structure",
    "required":["GrantArn"],
    "members":{
      "GrantArn":{"shape":"Arn"}
    }
  },
  "AcceptGrantResponse":{
    "type":"structure",
    "members":{
      "GrantArn":{"shape":"Arn"},
      "Status":{"shape":"GrantStatus"},
      "Version":{"shape":"String"}
    }
  },
  "AccessDeniedException":{
    "type":"structure",
    "members":{
      "Message":{"shape":"Message"}
    },
    "exception":true
  },
  "ActivationOverrideBehavior":{
    "type":"string",
    "enum":[
      "DISTRIBUTED_GRANTS_ONLY",
      "ALL_GRANTS_PERMITTED_BY_ISSUER"
    ]
  },
  "AllowedOperation":{
    "type":"string",
    "enum":[
      "CreateGrant",
      "CheckoutLicense",
      "CheckoutBorrowLicense",
      "CheckInLicense",
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"ExtendConsumptionLicense",
"ListPurchasedLicenses",
"CreateToken"
]
},
"AllowedOperationList":{
"type":"list",
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"min":1
},
"Arn":{
"type":"string",
"max":2048,
"pattern":"^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
},
"ArnList":{
"type":"list",
"member":{"shape":"Arn"}
},
"AuthorizationException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"exception":true
},
"AutomatedDiscoveryInformation":{
"type":"structure",
"members":{
"LastRunTime":{"shape":"DateTime"}
}
},
"Boolean":{"type":"boolean"},
"BorrowConfiguration":{
"type":"structure",
"required":[
"AllowEarlyCheckIn",
"MaxTimeToLiveInMinutes"
],
"members":{
"AllowEarlyCheckIn":{"shape":"BoxBoolean"},
"MaxTimeToLiveInMinutes":{"shape":"BoxInteger"}
}
},
"BoxBoolean":{"type":"boolean"},
"BoxInteger":{"type":"integer"},

"BoxLong":{"type":"long"},
"CheckInLicenseRequest":{
"type":"structure",
"required":["LicenseConsumptionToken"],
"members":{
"LicenseConsumptionToken":{"shape":"String"},
"Beneficiary":{"shape":"String"}
}
},
"CheckInLicenseResponse":{
"type":"structure",
"members":{
}
},
"CheckoutBorrowLicenseRequest":{
"type":"structure",
"required":[
"LicenseArn",
"Entitlements",
"DigitalSignatureMethod",
"ClientToken"
],
"members":{
"LicenseArn":{"shape":"Arn"},
"Entitlements":{"shape":"EntitlementDataList"},
"DigitalSignatureMethod":{"shape":"DigitalSignatureMethod"},
"NodeId":{"shape":"String"},
"CheckoutMetadata":{"shape":"MetadataList"},
"ClientToken":{"shape":"ClientToken"}
}
},

"CheckoutBorrowLicenseResponse":{
"type":"structure",
"members":{
"LicenseArn":{"shape":"Arn"},
"LicenseConsumptionToken":{"shape":"String"},
"EntitlementsAllowed":{"shape":"EntitlementDataList"},
"NodeId":{"shape":"String"},
"SignedToken":{"shape":"SignedToken"},
"IssuedAt":{"shape":"ISO8601DateTime"},
"Expiration":{"shape":"ISO8601DateTime"},
"CheckoutMetadata":{"shape":"MetadataList"}
}
},
"CheckoutLicenseRequest":{
"type":"structure",
"required":[

"ProductSKU",
"CheckoutType",
"KeyFingerprint",
"Entitlements",
"ClientToken"
],
"members":{
"ProductSKU":{"shape":"String"},
"CheckoutType":{"shape":"CheckoutType"},
"KeyFingerprint":{"shape":"String"},
"Entitlements":{"shape":"EntitlementDataList"},
"ClientToken":{"shape":"ClientToken"},
"Beneficiary":{"shape":"String"},
"NodeId":{"shape":"String"}
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"CheckoutLicenseResponse":{
"type":"structure",
"members":{
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"LicenseConsumptionToken":{"shape":"String"},
"EntitlementsAllowed":{"shape":"EntitlementDataList"},
"SignedToken":{"shape":"SignedToken"},
"NodeId":{"shape":"String"},
"IssuedAt":{"shape":"ISO8601DateTime"},
"Expiration":{"shape":"ISO8601DateTime"},
"LicenseArn":{"shape":"String"}
}
},
"CheckoutType":{
"type":"string",
"enum":[
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"PERPETUAL"
]
},
"ClientRequestToken":{
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"max":36,
"min":1
},
"ClientToken":{
"type":"string",
"max":2048,
"pattern":"\\S+"
},
"ConflictException":{
"type":"structure",

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  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"ConsumedLicenseSummary":{
  "type":"structure",
   "members":{
    "ResourceType":{"shape":"ResourceType"},
    "ConsumedLicenses":{"shape":"BoxLong"}
  }
},
"ConsumedLicenseSummaryList":{
  "type":"list",
  "member":{"shape":"ConsumedLicenseSummary"}
},
"ConsumptionConfiguration":{
  "type":"structure",
  "members":{
    "RenewType":{"shape":"RenewType"},
    "ProvisionalConfiguration":{"shape":"ProvisionalConfiguration"},
    "BorrowConfiguration":{"shape":"BorrowConfiguration"}
  }
},
"CreateGrantRequest":{
  "type":"structure",
  "required":[
    "ClientToken",
    "GrantName",
    "LicenseArn",
    "Principals",
    "HomeRegion",
    "AllowedOperations"
  ],
  "members":{
    "ClientToken":{"shape":"ClientToken"},
    "GrantName":{"shape":"String"},
    "LicenseArn":{"shape":"Arn"},
    "Principals":{"shape":"PrincipalArnList"},
    "HomeRegion":{"shape":"String"},
    "AllowedOperations":{"shape":"AllowedOperationList"}
   }
},
"CreateGrantResponse":{
  "type":"structure",
  "members":{
    "GrantArn":{"shape":"Arn"},
    "Status":{"shape":"GrantStatus"},
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"Version":{"shape":"String"}
}
},
"CreateGrantVersionRequest":{
"type":"structure",
"required":[
"ClientToken",
"GrantArn"
],
"members":{
"ClientToken":{"shape":"ClientToken"},
"GrantArn":{"shape":"Arn"},
"GrantName":{"shape":"String"},
"AllowedOperations":{"shape":"AllowedOperationList"},
"Status":{"shape":"GrantStatus"},
"StatusReason":{"shape":"StatusReasonMessage"},
"SourceVersion":{"shape":"String"},
"Options":{"shape":"Options"}
}
},
"CreateGrantVersionResponse":{
"type":"structure",
"members":{
"GrantArn":{"shape":"Arn"},
"Status":{"shape":"GrantStatus"},
"Version":{"shape":"String"}
}
},
"CreateLicenseConfigurationRequest":{
"type":"structure",
"required":[
"Name",
"LicenseCountingType"
],
"members":{
"Name":{"shape":"String"},
"Description":{"shape":"String"},
"LicenseCountingType":{"shape":"LicenseCountingType"},
"LicenseCount":{"shape":"BoxLong"},
"LicenseCountHardLimit":{"shape":"BoxBoolean"},
"LicenseRules":{"shape":"StringList"},
"Tags":{"shape":"TagList"},
"DisassociateWhenNotFound":{"shape":"BoxBoolean"},
"ProductInformationList":{"shape":"ProductInformationList"}
}
},
"CreateLicenseConfigurationResponse":{
"type":"structure",

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  "members":{
    "LicenseConfigurationArn":{"shape":"String"}
  }
},
"CreateLicenseConversionTaskForResourceRequest":{
  "type":"structure",
  "required":[
    "ResourceArn",
    "SourceLicenseContext",
    "DestinationLicenseContext"
  ],
  "members":{
    "ResourceArn":{"shape":"Arn"},
     "SourceLicenseContext":{"shape":"LicenseConversionContext"},
    "DestinationLicenseContext":{"shape":"LicenseConversionContext"}
  }
},
"CreateLicenseConversionTaskForResourceResponse":{
  "type":"structure",
  "members":{
    "LicenseConversionTaskId":{"shape":"LicenseConversionTaskId"}
  }
},
"CreateLicenseManagerReportGeneratorRequest":{
  "type":"structure",
  "required":[
    "ReportGeneratorName",
    "Type",
    "ReportContext",
    "ReportFrequency",
    "ClientToken"
  ],
  "members":{
    "ReportGeneratorName":{"shape":"ReportGeneratorName"},
    "Type":{"shape":"ReportTypeList"},
    "ReportContext":{"shape":"ReportContext"},
    "ReportFrequency":{"shape":"ReportFrequency"},
    "ClientToken":{"shape":"ClientRequestToken"},
    "Description":{"shape":"String"},
    "Tags":{"shape":"TagList"}
  }
},
"CreateLicenseManagerReportGeneratorResponse":{
   "type":"structure",
  "members":{
    "LicenseManagerReportGeneratorArn":{"shape":"String"}
  }
},
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  "CreateLicenseRequest":{
    "type":"structure",
    "required":[
      "LicenseName",
      "ProductName",
      "ProductSKU",
      "Issuer",
      "HomeRegion",
      "Validity",
      "Entitlements",
      "Beneficiary",
      "ConsumptionConfiguration",
      "ClientToken"
    ],
    "members":{
      "LicenseName":{"shape":"String"},
      "ProductName":{"shape":"String"},
      "ProductSKU":{"shape":"String"},
      "Issuer":{"shape":"Issuer"},
      "HomeRegion":{"shape":"String"},
      "Validity":{"shape":"DatetimeRange"},
      "Entitlements":{"shape":"EntitlementList"},
      "Beneficiary":{"shape":"String"},
      "ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},
      "LicenseMetadata":{"shape":"MetadataList"},
      "ClientToken":{"shape":"ClientToken"}

}
  },
  "CreateLicenseResponse":{
    "type":"structure",
    "members":{
      "LicenseArn":{"shape":"Arn"},
      "Status":{"shape":"LicenseStatus"},
      "Version":{"shape":"String"}
    }
  },
  "CreateLicenseVersionRequest":{
    "type":"structure",
    "required":[
      "LicenseArn",
      "LicenseName",
      "ProductName",
      "Issuer",
      "HomeRegion",
      "Validity",
      "Entitlements",
      "ConsumptionConfiguration",
```

"Status",
"ClientToken"
],
"members":{
"LicenseArn":{"shape":"Arn"},
"LicenseName":{"shape":"String"},
"ProductName":{"shape":"String"},
"Issuer":{"shape":"Issuer"},
"HomeRegion":{"shape":"String"},
"Validity":{"shape":"DatetimeRange"},
"LicenseMetadata":{"shape":"MetadataList"},
"Entitlements":{"shape":"EntitlementList"},
"ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},
"Status":{"shape":"LicenseStatus"},
"ClientToken":{"shape":"ClientToken"},
"SourceVersion":{"shape":"String"}
}
},
"CreateLicenseVersionResponse":{
"type":"structure",
"members":{
"LicenseArn":{"shape":"Arn"},
"Version":{"shape":"String"},
"Status":{"shape":"LicenseStatus"}
}
},
"CreateTokenRequest":{
"type":"structure",
"required":[
"LicenseArn",
"ClientToken"
],
"members":{
"LicenseArn":{"shape":"Arn"},
"RoleArns":{"shape":"ArnList"},
"ExpirationInDays":{"shape":"Integer"},
"TokenProperties":{"shape":"MaxSize3StringList"},
"ClientToken":{"shape":"ClientToken"}
}
},
"CreateTokenResponse":{
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"TokenType":{"shape":"TokenType"},
"Token":{"shape":"TokenString"}
}
},

"DateTime":{"type":"timestamp"},
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"members":{
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"End":{"shape":"ISO8601DateTime"}
}
},
"DeleteGrantRequest":{
"type":"structure",
"required":[
"GrantArn",
"Version"
],
"members":{
"GrantArn":{"shape":"Arn"},
"StatusReason":{"shape":"StatusReasonMessage"},
"Version":{"shape":"String"}
}
},
"DeleteGrantResponse":{
"type":"structure",
"members":{
"GrantArn":{"shape":"Arn"},
"Status":{"shape":"GrantStatus"},
"Version":{"shape":"String"}
}
},
"DeleteLicenseConfigurationRequest":{
"type":"structure",
"required":["LicenseConfigurationArn"],
"members":{
"LicenseConfigurationArn":{"shape":"String"}
}
},
"DeleteLicenseConfigurationResponse":{
"type":"structure",
"members":{
}
},
"DeleteLicenseManagerReportGeneratorRequest":{
"type":"structure",
"required":["LicenseManagerReportGeneratorArn"],
"members":{
"LicenseManagerReportGeneratorArn":{"shape":"String"}
}

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},
"DeleteLicenseManagerReportGeneratorResponse":{
  "type":"structure",
  "members":{
  }
},
"DeleteLicenseRequest":{
  "type":"structure",
  "required":[
    "LicenseArn",
    "SourceVersion"
  ],
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "SourceVersion":{"shape":"String"}
  }
},
"DeleteLicenseResponse":{
  "type":"structure",
  "members":{
    "Status":{"shape":"LicenseDeletionStatus"},
    "DeletionDate":{"shape":"ISO8601DateTime"}
  }
},
"DeleteTokenRequest":{
  "type":"structure",
  "required":["TokenId"],
  "members":{
    "TokenId":{"shape":"String"}
  }
},
"DeleteTokenResponse":{
  "type":"structure",
  "members":{
  }
},
"DigitalSignatureMethod":{

  "type":"string",
  "enum":["JWT_PS384"]
},
"Entitlement":{
  "type":"structure",
  "required":[
    "Name",
    "Unit"
  ],
  "members":{
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    "Name":{"shape":"String"},
    "Value":{"shape":"String"},
    "MaxCount":{"shape":"Long"},
    "Overage":{"shape":"BoxBoolean"},
    "Unit":{"shape":"EntitlementUnit"},
    "AllowCheckIn":{"shape":"BoxBoolean"}
  }
},
"EntitlementData":{
  "type":"structure",
  "required":[
    "Name",
    "Unit"
  ],
  "members":{
    "Name":{"shape":"String"},
    "Value":{"shape":"String"},
    "Unit":{"shape":"EntitlementDataUnit"}
  }
},
"EntitlementDataList":{
  "type":"list",
  "member":{"shape":"EntitlementData"}
},
"EntitlementDataUnit":{
  "type":"string",
  "enum":[
    "Count",
    "None",
    "Seconds",
    "Microseconds",
    "Milliseconds",
    "Bytes",
    "Kilobytes",

  "Megabytes",
    "Gigabytes",
    "Terabytes",
    "Bits",
    "Kilobits",
    "Megabits",
    "Gigabits",
    "Terabits",
    "Percent",
    "Bytes/Second",
    "Kilobytes/Second",
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    "Gigabytes/Second",
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"Terabytes/Second",
"Bits/Second",
"Kilobits/Second",
"Megabits/Second",
"Gigabits/Second",
"Terabits/Second",
"Count/Second"
]
},
"EntitlementList":{
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"member":{"shape":"Entitlement"}
},
"EntitlementNotAllowedException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"exception":true
},
"EntitlementUnit":{
"type":"string",
"enum":[
"Count",
"None",
"Seconds",
"Microseconds",
"Milliseconds",
"Bytes",
"Kilobytes",
"Megabytes",
"Gigabytes",
"Terabytes",

"Bits",
"Kilobits",
"Megabits",
"Gigabits",
"Terabits",
"Percent",
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"Megabytes/Second",
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"Terabytes/Second",
"Bits/Second",
"Kilobits/Second",
"Megabits/Second",

"Gigabits/Second",
"Terabits/Second",
"Count/Second"
]
},
"EntitlementUsage":{
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"required":[
"Name",
"ConsumedValue",
"Unit"
],
"members":{
"Name":{"shape":"String"},
"ConsumedValue":{"shape":"String"},
"MaxCount":{"shape":"String"},
"Unit":{"shape":"EntitlementDataUnit"}
}
},
"EntitlementUsageList":{
"type":"list",
"member":{"shape":"EntitlementUsage"}
},
"ExtendLicenseConsumptionRequest":{
"type":"structure",
"required":["LicenseConsumptionToken"],
"members":{
"LicenseConsumptionToken":{"shape":"String"},
"DryRun":{"shape":"Boolean"}
}
},
"ExtendLicenseConsumptionResponse":{
"type":"structure",
"members":{
"LicenseConsumptionToken":{"shape":"String"},
"Expiration":{"shape":"ISO8601DateTime"}
}
},
"FailedDependencyException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"},
"ErrorCode":{"shape":"String"}
},
"exception":true
},
"Filter":{
"type":"structure",

```
  "members":{
    "Name":{"shape":"FilterName"},
    "Values":{"shape":"FilterValues"}
  }
},
"FilterLimitExceededException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"FilterList":{
  "type":"list",
  "member":{"shape":"Filter"}
},
"FilterName":{"type":"string"},
"FilterValue":{"type":"string"},
"FilterValues":{
  "type":"list",
  "member":{"shape":"FilterValue"}
 },
"Filters":{
  "type":"list",
  "member":{"shape":"Filter"}
},
"GetAccessTokenRequest":{
  "type":"structure",
  "required":["Token"],
  "members":{
    "Token":{"shape":"TokenString"},
    "TokenProperties":{"shape":"MaxSize3StringList"}
  }
},
"GetAccessTokenResponse":{
  "type":"structure",
  "members":{
    "AccessToken":{"shape":"TokenString"}
  }
},
"GetGrantRequest":{
  "type":"structure",
  "required":["GrantArn"],
  "members":{
    "GrantArn":{"shape":"Arn"},
    "Version":{"shape":"String"}
  }
},
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"GetGrantResponse":{
  "type":"structure",
  "members":{
    "Grant":{"shape":"Grant"}
  }
},
"GetLicenseConfigurationRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{"shape":"String"}
  }
},
"GetLicenseConfigurationResponse":{
   "type":"structure",
  "members":{
    "LicenseConfigurationId":{"shape":"String"},
    "LicenseConfigurationArn":{"shape":"String"},
    "Name":{"shape":"String"},
    "Description":{"shape":"String"},
    "LicenseCountingType":{"shape":"LicenseCountingType"},
    "LicenseRules":{"shape":"StringList"},
    "LicenseCount":{"shape":"BoxLong"},
    "LicenseCountHardLimit":{"shape":"BoxBoolean"},
    "ConsumedLicenses":{"shape":"BoxLong"},
    "Status":{"shape":"String"},
    "OwnerAccountId":{"shape":"String"},
    "ConsumedLicenseSummaryList":{"shape":"ConsumedLicenseSummaryList"},
    "ManagedResourceSummaryList":{"shape":"ManagedResourceSummaryList"},
    "Tags":{"shape":"TagList"},
    "ProductInformationList":{"shape":"ProductInformationList"},
    "AutomatedDiscoveryInformation":{"shape":"AutomatedDiscoveryInformation"},
    "DisassociateWhenNotFound":{"shape":"BoxBoolean"}
  }
},
"GetLicenseConversionTaskRequest":{
   "type":"structure",
  "required":["LicenseConversionTaskId"],
  "members":{
    "LicenseConversionTaskId":{"shape":"LicenseConversionTaskId"}
  }
},
"GetLicenseConversionTaskResponse":{
  "type":"structure",
  "members":{
    "LicenseConversionTaskId":{"shape":"LicenseConversionTaskId"},
    "ResourceArn":{"shape":"String"},
    "SourceLicenseContext":{"shape":"LicenseConversionContext"},

"DestinationLicenseContext":{"shape":"LicenseConversionContext"},
"StatusMessage":{"shape":"String"},
"Status":{"shape":"LicenseConversionTaskStatus"},
"StartTime":{"shape":"DateTime"},
"LicenseConversionTime":{"shape":"DateTime"},
"EndTime":{"shape":"DateTime"}
}
},
"GetLicenseManagerReportGeneratorRequest":{
"type":"structure",
"required":["LicenseManagerReportGeneratorArn"],
"members":{
"LicenseManagerReportGeneratorArn":{"shape":"String"}
}
},
"GetLicenseManagerReportGeneratorResponse":{
"type":"structure",
"members":{
"ReportGenerator":{"shape":"ReportGenerator"}
}
},
"GetLicenseRequest":{
"type":"structure",
"required":["LicenseArn"],
"members":{
"LicenseArn":{"shape":"Arn"},
"Version":{"shape":"String"}
}
},
"GetLicenseResponse":{
"type":"structure",
"members":{
"License":{"shape":"License"}
}
},
"GetLicenseUsageRequest":{
"type":"structure",
"required":["LicenseArn"],
"members":{
"LicenseArn":{"shape":"Arn"}
}
},
"GetLicenseUsageResponse":{
"type":"structure",
"members":{
"LicenseUsage":{"shape":"LicenseUsage"}
}
},

"GetServiceSettingsRequest":{
  "type":"structure",
  "members":{
  }
},
"GetServiceSettingsResponse":{
  "type":"structure",
  "members":{
    "S3BucketArn":{"shape":"String"},
     "SnsTopicArn":{"shape":"String"},
    "OrganizationConfiguration":{"shape":"OrganizationConfiguration"},
    "EnableCrossAccountsDiscovery":{"shape":"BoxBoolean"},
    "LicenseManagerResourceShareArn":{"shape":"String"}
  }
},
"Grant":{
  "type":"structure",
  "required":[
    "GrantArn",
    "GrantName",
    "ParentArn",
    "LicenseArn",
    "GranteePrincipalArn",
    "HomeRegion",
    "GrantStatus",
    "Version",
    "GrantedOperations"
  ],
  "members":{
    "GrantArn":{"shape":"Arn"},
    "GrantName":{"shape":"String"},
    "ParentArn":{"shape":"Arn"},
    "LicenseArn":{"shape":"Arn"},
    "GranteePrincipalArn":{"shape":"Arn"},
    "HomeRegion":{"shape":"String"},
    "GrantStatus":{"shape":"GrantStatus"},
    "StatusReason":{"shape":"StatusReasonMessage"},
    "Version":{"shape":"String"},
    "GrantedOperations":{"shape":"AllowedOperationList"},
     "Options":{"shape":"Options"}
  }
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"GrantList":{
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  "member":{"shape":"Grant"}
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"GrantStatus":{
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"PENDING_WORKFLOW",
"PENDING_ACCEPT",
"REJECTED",
"ACTIVE",
"FAILED_WORKFLOW",
"DELETED",
"PENDING_DELETE",
"DISABLED",
"WORKFLOW_COMPLETED"
]
},
"GrantedLicense":{
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"members":{
"LicenseArn":{"shape":"Arn"},
"LicenseName":{"shape":"String"},
"ProductName":{"shape":"String"},
"ProductSKU":{"shape":"String"},
"Issuer":{"shape":"IssuerDetails"},
"HomeRegion":{"shape":"String"},
"Status":{"shape":"LicenseStatus"},
"Validity":{"shape":"DatetimeRange"},
"Beneficiary":{"shape":"String"},
"Entitlements":{"shape":"EntitlementList"},
"ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},

"LicenseMetadata":{"shape":"MetadataList"},
"CreateTime":{"shape":"ISO8601DateTime"},
"Version":{"shape":"String"},
"ReceivedMetadata":{"shape":"ReceivedMetadata"}
}
},
"GrantedLicenseList":{
"type":"list",
"member":{"shape":"GrantedLicense"}
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"ISO8601DateTime":{
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"Integer":{"type":"integer"},
"InvalidParameterValueException":{
"type":"structure",
"members":{
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  "synthetic":true
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"InvalidResourceStateException":{
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  "members":{
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  "exception":true
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"InventoryFilter":{
  "type":"structure",
  "required":[
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    "Condition"
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  "members":{
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    "Condition":{"shape":"InventoryFilterCondition"},
    "Value":{"shape":"String"}
  }
},
"InventoryFilterCondition":{
  "type":"string",
  "enum":[
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    "NOT_EQUALS",
    "BEGINS_WITH",
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  ]
},
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  "member":{"shape":"InventoryFilter"}
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  "required":["Name"],
  "members":{
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    "SignKey":{"shape":"String"}
  }
},
"IssuerDetails":{
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    "KeyFingerprint":{"shape":"String"}
  }
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    "LicenseName":{"shape":"String"},

"ProductName":{"shape":"String"},
    "ProductSKU":{"shape":"String"},
    "Issuer":{"shape":"IssuerDetails"},
    "HomeRegion":{"shape":"String"},
    "Status":{"shape":"LicenseStatus"},
    "Validity":{"shape":"DatetimeRange"},
    "Beneficiary":{"shape":"String"},
    "Entitlements":{"shape":"EntitlementList"},
    "ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},
    "LicenseMetadata":{"shape":"MetadataList"},
    "CreateTime":{"shape":"ISO8601DateTime"},
    "Version":{"shape":"String"}
  }
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  "members":{
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    "LicenseConfigurationArn":{"shape":"String"},
    "Name":{"shape":"String"},
    "Description":{"shape":"String"},
    "LicenseCountingType":{"shape":"LicenseCountingType"},
    "LicenseRules":{"shape":"StringList"},
    "LicenseCount":{"shape":"BoxLong"},
    "LicenseCountHardLimit":{"shape":"BoxBoolean"},
     "DisassociateWhenNotFound":{"shape":"BoxBoolean"},
    "ConsumedLicenses":{"shape":"BoxLong"},
    "Status":{"shape":"String"},
    "OwnerAccountId":{"shape":"String"},
    "ConsumedLicenseSummaryList":{"shape":"ConsumedLicenseSummaryList"},
    "ManagedResourceSummaryList":{"shape":"ManagedResourceSummaryList"},
    "ProductInformationList":{"shape":"ProductInformationList"},
    "AutomatedDiscoveryInformation":{"shape":"AutomatedDiscoveryInformation"}
  }
},
"LicenseConfigurationAssociation":{
  "type":"structure",
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"AssociationTime":{"shape":"DateTime"},
"AmiAssociationScope":{"shape":"String"}
}
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"DISABLED"
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"ResourceType":{"shape":"ResourceType"},
"ResourceStatus":{"shape":"String"},
"ResourceOwnerId":{"shape":"String"},
"AssociationTime":{"shape":"DateTime"},
"ConsumedLicenses":{"shape":"BoxLong"}
}
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"LicenseConfigurationUsageList":{
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},
"LicenseConfigurations":{
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"member":{"shape":"LicenseConfiguration"}
},
"LicenseConversionContext":{
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"members":{
"UsageOperation":{"shape":"UsageOperation"}
}
},
"LicenseConversionTask":{
"type":"structure",
"members":{
"LicenseConversionTaskId":{"shape":"LicenseConversionTaskId"},

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    "ResourceArn":{"shape":"String"},
    "SourceLicenseContext":{"shape":"LicenseConversionContext"},
    "DestinationLicenseContext":{"shape":"LicenseConversionContext"},
    "Status":{"shape":"LicenseConversionTaskStatus"},
    "StatusMessage":{"shape":"String"},
    "StartTime":{"shape":"DateTime"},
    "LicenseConversionTime":{"shape":"DateTime"},
    "EndTime":{"shape":"DateTime"}
  }
},
"LicenseConversionTaskId":{
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},
"LicenseConversionTaskStatus":{
  "type":"string",
  "enum":[
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    "SUCCEEDED",
    "FAILED"
  ]
},
"LicenseConversionTasks":{
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  "member":{"shape":"LicenseConversionTask"}
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"LicenseCountingType":{
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    "Instance",
    "Core",
    "Socket"
  ]
},
"LicenseDeletionStatus":{
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  "enum":[
    "PENDING_DELETE",
    "DELETED"
  ]
},
"LicenseList":{
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  "member":{"shape":"License"}
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"LicenseOperationFailure":{
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    "ResourceType":{"shape":"ResourceType"},
    "ErrorMessage":{"shape":"String"},
    "FailureTime":{"shape":"DateTime"},
    "OperationName":{"shape":"String"},
    "ResourceOwnerId":{"shape":"String"},
    "OperationRequestedBy":{"shape":"String"},
    "MetadataList":{"shape":"MetadataList"}
  }
},
"LicenseOperationFailureList":{
  "type":"list",
  "member":{"shape":"LicenseOperationFailure"}
},
"LicenseSpecification":{
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  "required":["LicenseConfigurationArn"],
  "members":{
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    "AmiAssociationScope":{"shape":"String"}
  }
},
 "LicenseSpecifications":{
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  "member":{"shape":"LicenseSpecification"}
},
"LicenseStatus":{
  "type":"string",
  "enum":[
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    "PENDING_AVAILABLE",
    "DEACTIVATED",
    "SUSPENDED",
    "EXPIRED",
    "PENDING_DELETE",
    "DELETED"
  ]
},
"LicenseUsage":{
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  "members":{
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  }
},
"LicenseUsageException":{
  "type":"structure",
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  "members":{
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  "exception":true
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"ListAssociationsForLicenseConfigurationRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
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    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"}
  }
},
"ListAssociationsForLicenseConfigurationResponse":{
  "type":"structure",
   "members":{
    "LicenseConfigurationAssociations":{"shape":"LicenseConfigurationAssociations"},
    "NextToken":{"shape":"String"}
  }
},
"ListDistributedGrantsRequest":{
  "type":"structure",
  "members":{
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    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
},
"ListDistributedGrantsResponse":{
  "type":"structure",
  "members":{
    "Grants":{"shape":"GrantList"},
    "NextToken":{"shape":"String"}
  }
},
"ListFailuresForLicenseConfigurationOperationsRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
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    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"}
  }
},
"ListFailuresForLicenseConfigurationOperationsResponse":{
  "type":"structure",
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"NextToken":{"shape":"String"}
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"ListLicenseConfigurationsRequest":{
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"MaxResults":{"shape":"BoxInteger"},
"NextToken":{"shape":"String"},
"Filters":{"shape":"Filters"}
}
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"ListLicenseConfigurationsResponse":{
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"NextToken":{"shape":"String"}
}
},
"ListLicenseConversionTasksRequest":{
"type":"structure",
"members":{
"NextToken":{"shape":"String"},
"MaxResults":{"shape":"BoxInteger"},
"Filters":{"shape":"Filters"}
}
},
"ListLicenseConversionTasksResponse":{
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"members":{
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"NextToken":{"shape":"String"}
}
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"ListLicenseManagerReportGeneratorsRequest":{
"type":"structure",
"members":{
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"NextToken":{"shape":"String"},
"MaxResults":{"shape":"MaxSize100"}
}
},
"ListLicenseManagerReportGeneratorsResponse":{
"type":"structure",
"members":{
"ReportGenerators":{"shape":"ReportGeneratorList"},

"NextToken":{"shape":"String"}
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"ListLicenseSpecificationsForResourceRequest":{
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"MaxResults":{"shape":"BoxInteger"},
"NextToken":{"shape":"String"}
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},
"ListLicenseSpecificationsForResourceResponse":{
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"members":{
"LicenseSpecifications":{"shape":"LicenseSpecifications"},
"NextToken":{"shape":"String"}

}
},
"ListLicenseVersionsRequest":{
"type":"structure",
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"members":{
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"NextToken":{"shape":"String"},
"MaxResults":{"shape":"MaxSize100"}
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"ListLicenseVersionsResponse":{
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"NextToken":{"shape":"String"}
}
},
"ListLicensesRequest":{
"type":"structure",
"members":{
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"Filters":{"shape":"FilterList"},
"NextToken":{"shape":"String"},
"MaxResults":{"shape":"MaxSize100"}
}
},
"ListLicensesResponse":{
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"Licenses":{"shape":"LicenseList"},
"NextToken":{"shape":"String"}
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"ListReceivedGrantsForOrganizationRequest":{
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"Filters":{"shape":"FilterList"},
"NextToken":{"shape":"String"},
"MaxResults":{"shape":"MaxSize100"}
}
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"NextToken":{"shape":"String"}
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"members":{
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"Filters":{"shape":"FilterList"},
"NextToken":{"shape":"String"},
"MaxResults":{"shape":"MaxSize100"}
}
},
"ListReceivedGrantsResponse":{
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"members":{
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"NextToken":{"shape":"String"}
}
},
"ListReceivedLicensesForOrganizationRequest":{
"type":"structure",
"members":{
"Filters":{"shape":"FilterList"},
"NextToken":{"shape":"String"},
"MaxResults":{"shape":"MaxSize100"}
}
},
"ListReceivedLicensesForOrganizationResponse":{
"type":"structure",
"members":{

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    "Licenses":{"shape":"GrantedLicenseList"},
    "NextToken":{"shape":"String"}
  }
},
"ListReceivedLicensesRequest":{
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  "members":{
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    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
},
"ListReceivedLicensesResponse":{
  "type":"structure",
  "members":{
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    "NextToken":{"shape":"String"}
  }
},
"ListResourceInventoryRequest":{
  "type":"structure",
  "members":{
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    "NextToken":{"shape":"String"},
    "Filters":{"shape":"InventoryFilterList"}
  }
},
"ListResourceInventoryResponse":{
  "type":"structure",
  "members":{
    "ResourceInventoryList":{"shape":"ResourceInventoryList"},
     "NextToken":{"shape":"String"}
  }
},
"ListTagsForResourceRequest":{
  "type":"structure",
  "required":["ResourceArn"],
  "members":{
    "ResourceArn":{"shape":"String"}
  }
},
"ListTagsForResourceResponse":{
  "type":"structure",
  "members":{
    "Tags":{"shape":"TagList"}
  }
},
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"ListTokensRequest":{
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  "members":{
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    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
},
"ListTokensResponse":{
  "type":"structure",
  "members":{
    "Tokens":{"shape":"TokenList"},
    "NextToken":{"shape":"String"}
  }
},
"ListUsageForLicenseConfigurationRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
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     "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"},
    "Filters":{"shape":"Filters"}
  }
},
"ListUsageForLicenseConfigurationResponse":{
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  "members":{
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    "NextToken":{"shape":"String"}
  }
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"ManagedResourceSummary":{
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  "members":{
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    "AssociationCount":{"shape":"BoxLong"}
  }
},
"ManagedResourceSummaryList":{
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  "member":{"shape":"ManagedResourceSummary"}
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"MaxSize100":{
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  "min":1
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  "max":3
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    "Value":{"shape":"String"}
  }
},
"MetadataList":{
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  "member":{"shape":"Metadata"}
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"NoEntitlementsAllowedException":{
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  "members":{
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  "exception":true
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"Options":{
  "type":"structure",
  "members":{
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  }
},
"OrganizationConfiguration":{
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  "required":["EnableIntegration"],
  "members":{
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  }
},
"PrincipalArnList":{
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  "member":{"shape":"Arn"},
  "max":1,
  "min":1
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"ProductInformation":{
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  "required":[
    "ResourceType",
    "ProductInformationFilterList"
  ],
  "members":{
    "ResourceType":{"shape":"String"},
     "ProductInformationFilterList":{"shape":"ProductInformationFilterList"}
  }
},
"ProductInformationFilter":{
  "type":"structure",
  "required":[
    "ProductInformationFilterName",
    "ProductInformationFilterComparator"
  ],
  "members":{
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    "ProductInformationFilterValue":{"shape":"StringList"},
    "ProductInformationFilterComparator":{"shape":"String"}
  }
},
"ProductInformationFilterList":{
  "type":"list",
  "member":{"shape":"ProductInformationFilter"}
},
"ProductInformationList":{
  "type":"list",
  "member":{"shape":"ProductInformation"}
},
"ProvisionalConfiguration":{
  "type":"structure",
  "required":["MaxTimeToLiveInMinutes"],
  "members":{
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  }
},
"RateLimitExceededException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
   },
  "exception":true
},
"ReceivedMetadata":{
  "type":"structure",
  "members":{
    "ReceivedStatus":{"shape":"ReceivedStatus"},
    "ReceivedStatusReason":{"shape":"StatusReasonMessage"},
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    "AllowedOperations":{"shape":"AllowedOperationList"}
  }
},
"ReceivedStatus":{
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  "enum":[
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    "PENDING_ACCEPT",
    "REJECTED",
    "ACTIVE",
    "FAILED_WORKFLOW",
    "DELETED",
    "DISABLED",
    "WORKFLOW_COMPLETED"
  ]
},
"RedirectException":{
  "type":"structure",
  "members":{
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    "Message":{"shape":"Message"}
  },
  "exception":true
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"RejectGrantRequest":{
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  "required":["GrantArn"],
  "members":{
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  }
},
"RejectGrantResponse":{
  "type":"structure",
  "members":{
     "GrantArn":{"shape":"Arn"},
    "Status":{"shape":"GrantStatus"},
    "Version":{"shape":"String"}
  }
},
"RenewType":{
  "type":"string",
  "enum":[
    "None",
    "Weekly",
    "Monthly"
  ]
},
"ReportContext":{
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  "required":["licenseConfigurationArns"],
  "members":{
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},
"ReportFrequency":{
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  "members":{
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    "period":{"shape":"ReportFrequencyType"}
  }
},
"ReportFrequencyType":{
  "type":"string",
  "enum":[
    "DAY",
    "WEEK",
    "MONTH"
  ]
},
"ReportGenerator":{
  "type":"structure",
  "members":{
    "ReportGeneratorName":{"shape":"String"},
    "ReportType":{"shape":"ReportTypeList"},
    "ReportContext":{"shape":"ReportContext"},
    "ReportFrequency":{"shape":"ReportFrequency"},
     "LicenseManagerReportGeneratorArn":{"shape":"String"},
    "LastRunStatus":{"shape":"String"},
    "LastRunFailureReason":{"shape":"String"},
    "LastReportGenerationTime":{"shape":"String"},
    "ReportCreatorAccount":{"shape":"String"},
    "Description":{"shape":"String"},
    "S3Location":{"shape":"S3Location"},
    "CreateTime":{"shape":"String"},
    "Tags":{"shape":"TagList"}
  }
},
"ReportGeneratorList":{
  "type":"list",
  "member":{"shape":"ReportGenerator"}
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"ReportGeneratorName":{
  "type":"string",
  "max":100,
  "min":1
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"ReportType":{
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  "enum":[
    "LicenseConfigurationSummaryReport",
    "LicenseConfigurationUsageReport"
  ]
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"ReportTypeList":{
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  "member":{"shape":"ReportType"}
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"ResourceInventory":{
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  "members":{
    "ResourceId":{"shape":"String"},
     "ResourceType":{"shape":"ResourceType"},
    "ResourceArn":{"shape":"String"},
    "Platform":{"shape":"String"},
    "PlatformVersion":{"shape":"String"},
    "ResourceOwningAccountId":{"shape":"String"}
  }
},
"ResourceInventoryList":{
  "type":"list",
  "member":{"shape":"ResourceInventory"}
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"ResourceLimitExceededException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
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"ResourceNotFoundException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
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"ResourceType":{
  "type":"string",
  "enum":[
    "EC2_INSTANCE",
    "EC2_HOST",
    "EC2_AMI",
    "RDS",
    "SYSTEMS_MANAGER_MANAGED_INSTANCE"

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  ]
},
"S3Location":{
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  "members":{
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    "keyPrefix":{"shape":"String"}

}
},
"ServerInternalException":{
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  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true,
  "fault":true
},
"SignedToken":{
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  "min":4096
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"StatusReasonMessage":{
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  "max":400,
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"StringList":{
  "type":"list",
  "member":{"shape":"String"}
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"Tag":{
  "type":"structure",
  "members":{
    "Key":{"shape":"String"},
    "Value":{"shape":"String"}
  }
},
"TagKeyList":{
  "type":"list",
  "member":{"shape":"String"}
},
"TagList":{
  "type":"list",
  "member":{"shape":"Tag"}
},
"TagResourceRequest":{
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  "type":"structure",
  "required":[
    "ResourceArn",
    "Tags"
  ],
  "members":{
    "ResourceArn":{"shape":"String"},
    "Tags":{"shape":"TagList"}
  }
},
"TagResourceResponse":{
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  "members":{
  }
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"TokenData":{
  "type":"structure",
  "members":{
    "TokenId":{"shape":"String"},
    "TokenType":{"shape":"String"},
    "LicenseArn":{"shape":"String"},
    "ExpirationTime":{"shape":"ISO8601DateTime"},
    "TokenProperties":{"shape":"MaxSize3StringList"},
    "RoleArns":{"shape":"ArnList"},
    "Status":{"shape":"String"}
  }
},
"TokenList":{
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  "member":{"shape":"TokenData"}
},
"TokenString":{
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  "max":4096,
  "pattern":"\\S+"
},
"TokenType":{
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  "enum":["REFRESH_TOKEN"]
},
"UnsupportedDigitalSignatureMethodException":{
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  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"UntagResourceRequest":{
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"ResourceArn",
"TagKeys"
],
"members":{
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"TagKeys":{"shape":"TagKeyList"}
}
},
"UntagResourceResponse":{
"type":"structure",
"members":{
}
},
"UpdateLicenseConfigurationRequest":{
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"required":["LicenseConfigurationArn"],
"members":{
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"LicenseConfigurationStatus":{"shape":"LicenseConfigurationStatus"},
"LicenseRules":{"shape":"StringList"},
"LicenseCount":{"shape":"BoxLong"},
"LicenseCountHardLimit":{"shape":"BoxBoolean"},
"Name":{"shape":"String"},
"Description":{"shape":"String"},
"ProductInformationList":{"shape":"ProductInformationList"},
"DisassociateWhenNotFound":{"shape":"BoxBoolean"}
}
},
"UpdateLicenseConfigurationResponse":{
"type":"structure",
"members":{
}
},
"UpdateLicenseManagerReportGeneratorRequest":{
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"LicenseManagerReportGeneratorArn",
"ReportGeneratorName",
"Type",
"ReportContext",
"ReportFrequency",
"ClientToken"
],
"members":{
"LicenseManagerReportGeneratorArn":{"shape":"String"},
"ReportGeneratorName":{"shape":"ReportGeneratorName"},

"Type":{"shape":"ReportTypeList"},
"ReportContext":{"shape":"ReportContext"},
"ReportFrequency":{"shape":"ReportFrequency"},
"ClientToken":{"shape":"ClientRequestToken"},
"Description":{"shape":"String"}
}
},
"UpdateLicenseManagerReportGeneratorResponse":{
"type":"structure",
"members":{
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"UpdateLicenseSpecificationsForResourceRequest":{
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"required":["ResourceArn"],
"members":{
"ResourceArn":{"shape":"String"},
"AddLicenseSpecifications":{"shape":"LicenseSpecifications"},
"RemoveLicenseSpecifications":{"shape":"LicenseSpecifications"}
}
},
"UpdateLicenseSpecificationsForResourceResponse":{
"type":"structure",
"members":{
}
},
"UpdateServiceSettingsRequest":{
"type":"structure",
"members":{
"S3BucketArn":{"shape":"String"},
"SnsTopicArn":{"shape":"String"},
"OrganizationConfiguration":{"shape":"OrganizationConfiguration"},
"EnableCrossAccountsDiscovery":{"shape":"BoxBoolean"}
}
},
"UpdateServiceSettingsResponse":{
"type":"structure",
"members":{
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},
"UsageOperation":{
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"max":50
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"ValidationException":{
"type":"structure",
"members":{
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```
    },
    "exception":true
  }
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}
{
 "version": "2.0",
 "service": "<p>License Manager makes it easier to manage licenses from software vendors across multiple Amazon Web Services accounts and on-premises servers.</p>",
 "operations": {
   "AcceptGrant": "<p>Accepts the specified grant.</p>",
   "CheckInLicense": "<p>Checks in the specified license. Check in a license when it is no longer in use.</p>",
   "CheckoutBorrowLicense": "<p>Checks out the specified license for offline use.</p>",
   "CheckoutLicense": "<p>Checks out the specified license.</p> <note> <p>If the account that created the license is the same that is performing the check out, you must specify the account as the beneficiary.</p> </note>",
   "CreateGrant": "<p>Creates a grant for the specified license. A grant shares the use of license entitlements with a specific Amazon Web Services account, an organization, or an organizational unit (OU). For more information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>",
   "CreateGrantVersion": "<p>Creates a new version of the specified grant. For more information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>",
   "CreateLicense": "<p>Creates a license.</p>",
   "CreateLicenseConfiguration": "<p>Creates a license configuration.</p> <p>A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, Dedicated Instance, Dedicated Host, or all of these), license affinity to host (how long a license must be associated with a host), and the number of licenses purchased and used.</p>",
   "CreateLicenseConversionTaskForResource":
 "<p>Creates a new license conversion task.</p>",
   "CreateLicenseManagerReportGenerator": "<p>Creates a report generator.</p>",
   "CreateLicenseVersion": "<p>Creates a new version of the specified license.</p>",
   "CreateToken": "<p>Creates a long-lived token.</p> <p>A refresh token is a JWT token used to get an access token. With an access token, you can call AssumeRoleWithWebIdentity to get role credentials that you can use to call License Manager to manage the specified license.</p>",
   "DeleteGrant": "<p>Deletes the specified grant.</p>",
   "DeleteLicense": "<p>Deletes the specified license.</p>",
   "DeleteLicenseConfiguration": "<p>Deletes the specified license configuration.</p> <p>You cannot delete a license configuration that is in use.</p>",
   "DeleteLicenseManagerReportGenerator": "<p>Deletes the specified report generator.</p> <p>This action deletes the report generator, which stops it from generating future reports. The action cannot be reversed. It has no effect on the previous reports from this generator.</p>",
   "DeleteToken": "<p>Deletes the specified token. Must be called in the license home Region.</p>",
   "ExtendLicenseConsumption": "<p>Extends the expiration date for license consumption.</p>",
   "GetAccessToken": "<p>Gets a temporary access token to use with AssumeRoleWithWebIdentity. Access tokens are valid for one hour.</p>",
   "GetGrant": "<p>Gets detailed information about the specified grant.</p>",
   "GetLicense": "<p>Gets detailed information about the specified license.</p>",
```

"GetLicenseConfiguration": " Gets detailed information about the specified license configuration. ",
"GetLicenseConversionTask": " Gets information about the specified license type conversion task. ",
"GetLicenseManagerReportGenerator": " Gets information about the specified report generator. ",
"GetLicenseUsage": " Gets detailed information about the usage of the specified license. ",
"GetServiceSettings":
" Gets the License Manager settings for the current Region. ",
"ListAssociationsForLicenseConfiguration": " Lists the resource associations for the specified license configuration. Resource associations need not consume licenses from a license configuration. For example, an AMI or a stopped instance might not consume a license (depending on the license rules). ",
"ListDistributedGrants": " Lists the grants distributed for the specified license. ",
"ListFailuresForLicenseConfigurationOperations": " Lists the license configuration operations that failed. ",
"ListLicenseConfigurations": " Lists the license configurations for your account. ",
"ListLicenseConversionTasks": " Lists the license type conversion tasks for your account. ",
"ListLicenseManagerReportGenerators": " Lists the report generators for your account. ",
"ListLicenseSpecificationsForResource": " Describes the license configurations for the specified resource. ",
"ListLicenseVersions": " Lists all versions of the specified license. ",
"ListLicenses": " Lists the licenses for your account. ",
"ListReceivedGrants": " Lists grants that are received. Received grants are grants created while specifying the recipient as this Amazon Web Services account, your organization, or an organizational unit (OU) to which this member account belongs. ",
"ListReceivedGrantsForOrganization": " Lists the grants received for all accounts in the organization. ",
"ListReceivedLicenses": " Lists received licenses. ",
"ListReceivedLicensesForOrganization": " Lists the licenses received for all accounts in the organization. ",
"ListResourceInventory": " Lists resources managed using Systems Manager inventory. ",
"ListTagsForResource": " Lists the tags for the specified license configuration. ",
"ListTokens": " Lists your tokens. ",
"ListUsageForLicenseConfiguration":
" Lists all license usage records for a license configuration, displaying license consumption details by resource at a selected point in time. Use this action to audit the current license consumption for any license inventory and configuration. ",
"RejectGrant": " Rejects the specified grant. ",
"TagResource": " Adds the specified tags to the specified license configuration. ",
"UntagResource": " Removes the specified tags from the specified license configuration. ",
"UpdateLicenseConfiguration": " Modifies the attributes of an existing license configuration. ",
"UpdateLicenseManagerReportGenerator": " Updates a report generator. After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated. ",
"UpdateLicenseSpecificationsForResource": " Adds or removes the specified license configurations for the specified Amazon Web Services resource. You can update the license specifications of AMIs, instances, and hosts. You cannot update the license specifications for launch templates and CloudFormation templates, as they send license configurations to the operation that creates the resource. ",
"UpdateServiceSettings": " Updates License Manager settings for the current Region. "
},
"shapes": {
"AcceptGrantRequest": {

"base": null,
"refs": {
}
},
"AcceptGrantResponse": {
"base": null,
"refs": {
}
},
"AccessDeniedException": {
"base": " Access to resource denied. ",
"refs": {
}
},
"ActivationOverrideBehavior": {
"base": null,
"refs": {
"Options$ActivationOverrideBehavior": " An activation option for your grant that determines the behavior of activating a grant. Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the <code>Status</code> parameter.   As a license administrator, you can optionally specify an <code>ActivationOverrideBehavior</code> when activating a grant.   As a grantor, you can optionally specify an <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee account in your organization.   As a grantee, if the grantor creating the distributed grant doesnt specify an <code>ActivationOverrideBehavior</code>, you can optionally specify one when you are activating the grant.   <dl> <dt>DISTRIBUTED_GRANTS_ONLY</dt> <dd> Use this value to activate a grant without replacing any member accounts active grants for the same product. </dd> <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt> <dd> Use this value to activate a grant and disable other active grants in any member accounts for the same product. This action will also replace their previously activated grants with this activated grant. </dd> </dl>"
}
},
"AllowedOperation": {
"base": null,
"refs": {
"AllowedOperationList$member": null
}
},
"AllowedOperationList": {
"base": null,
"refs": {
"CreateGrantRequest$AllowedOperations": " Allowed operations for the grant. ",
"CreateGrantVersionRequest$AllowedOperations": " Allowed operations for the grant. ",
"Grant$GrantedOperations": " Granted operations. ",
"ReceivedMetadata$AllowedOperations": " Allowed operations. "
}
},

"Arn": {
"base": null,
"refs": {
"AcceptGrantRequest$GrantArn": " Amazon Resource Name (ARN) of the grant. ",
"AcceptGrantResponse$GrantArn": " Grant ARN. ",
"ArnList$member": null,
"CheckoutBorrowLicenseRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. The license must use the borrow consumption configuration. ",
"CheckoutBorrowLicenseResponse$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"CreateGrantRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"CreateGrantResponse$GrantArn": " Grant ARN. ",
"CreateGrantVersionRequest$GrantArn": " Amazon Resource Name (ARN) of the grant. ",
"CreateGrantVersionResponse$GrantArn": " Grant ARN. ",
"CreateLicenseConversionTaskForResourceRequest$ResourceArn": " Amazon Resource Name (ARN) of the resource you are converting the license type for. ",
"CreateLicenseResponse$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"CreateLicenseVersionRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"CreateLicenseVersionResponse$LicenseArn": " License ARN. ",
"CreateTokenRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the JWT token. ",
"DeleteGrantRequest$GrantArn": " Amazon Resource Name (ARN) of the grant. ",
"DeleteGrantResponse$GrantArn": " Grant ARN. ",
"DeleteLicenseRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"GetGrantRequest$GrantArn": " Amazon Resource Name (ARN) of the grant. ",
"GetLicenseRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"GetLicenseUsageRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"Grant$GrantArn": " Amazon Resource Name (ARN) of the grant. ",
"Grant$ParentArn": " Parent ARN. ",
"Grant$LicenseArn": " License ARN. ",
"Grant$GranteePrincipalArn": " The grantee principal ARN. ",
"GrantedLicense$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"License$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"ListLicenseVersionsRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"ListReceivedGrantsForOrganizationRequest$LicenseArn": " The Amazon Resource Name (ARN) of the received license. ",
"PrincipalArnList$member": null,
"RejectGrantRequest$GrantArn": " Amazon Resource Name (ARN) of the grant. ",
"RejectGrantResponse$GrantArn": " Grant ARN. "
}
},
"ArnList": {
"base": null,
"refs": {
"CreateTokenRequest$RoleArns": " Amazon Resource Name (ARN) of the IAM roles to embed in the token. License Manager does not check whether the roles are in use. ",

"ListDistributedGrantsRequest$GrantArns": " Amazon Resource Names (ARNs) of the grants. ",
"ListLicensesRequest$LicenseArns": " Amazon Resource Names (ARNs) of the licenses. ",
"ListReceivedGrantsRequest$GrantArns": " Amazon Resource Names (ARNs) of the grants. ",
"ListReceivedLicensesRequest$LicenseArns": " Amazon Resource Names (ARNs) of the licenses. ",

"ReportContext$licenseConfigurationArns": " Amazon Resource Name (ARN) of the license configuration that this generator reports on. ",
"TokenData$RoleArns": " Amazon Resource Names (ARN) of the roles included in the token. "
}
},
"AuthorizationException": {
"base": " The Amazon Web Services user account does not have permission to perform the action. Check the IAM policy associated with this account. ",
"refs": {
}
},
"AutomatedDiscoveryInformation": {
"base": " Describes automated discovery. ",
"refs": {
"GetLicenseConfigurationResponse$AutomatedDiscoveryInformation": " Automated discovery information. ",
"LicenseConfiguration$AutomatedDiscoveryInformation": " Automated discovery information. "
}
},
"Boolean": {
"base": null,
"refs": {
"ExtendLicenseConsumptionRequest$DryRun": " Checks whether you have the required permissions for the action,
without actually making the request. Provides an error response if you do not have the required permissions. ",
"OrganizationConfiguration$EnableIntegration": " Enables Organizations integration. "
}
},
"BorrowConfiguration": {
"base": " Details about a borrow configuration. ",
"refs": {
"ConsumptionConfiguration$BorrowConfiguration": " Details about a borrow configuration. "
}
},
"BoxBoolean": {
"base": null,
"refs": {
"BorrowConfiguration$AllowEarlyCheckIn": " Indicates whether early check-ins are allowed. ",
"CreateLicenseConfigurationRequest$LicenseCountHardLimit": " Indicates whether hard or soft license enforcement is used. Exceeding a hard limit blocks the launch of new instances. ",
"CreateLicenseConfigurationRequest$DisassociateWhenNotFound": " When true, disassociates a resource when software is uninstalled. ",
"Entitlement$Overage": " Indicates

whether overages are allowed. ",
"Entitlement$AllowCheckIn": " Indicates whether check-ins are allowed. ",
"GetLicenseConfigurationResponse$LicenseCountHardLimit": " Sets the number of available licenses as a hard limit. ",
"GetLicenseConfigurationResponse$DisassociateWhenNotFound": " When true, disassociates a resource when software is uninstalled. ",
"GetServiceSettingsResponse$EnableCrossAccountsDiscovery": " Indicates whether cross-account discovery is enabled. ",
"LicenseConfiguration$LicenseCountHardLimit": " Number of available licenses as a hard limit. ",
"LicenseConfiguration$DisassociateWhenNotFound": " When true, disassociates a resource when software is uninstalled. ",
"UpdateLicenseConfigurationRequest$LicenseCountHardLimit": " New hard limit of the number of available licenses. ",
"UpdateLicenseConfigurationRequest$DisassociateWhenNotFound": " When true, disassociates a resource when software is uninstalled. ",
"UpdateServiceSettingsRequest$EnableCrossAccountsDiscovery": " Activates cross-account discovery. "
}
},
"BoxInteger": {
"base": null,
"refs": {
"BorrowConfiguration$MaxTimeToLiveInMinutes": " Maximum time for the borrow configuration, in minutes. ",
"ListAssociationsForLicenseConfigurationRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListFailuresForLicenseConfigurationOperationsRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListLicenseConfigurationsRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListLicenseConversionTasksRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListLicenseSpecificationsForResourceRequest$MaxResults": " Maximum number of results to return in a single call. ",

"ListResourceInventoryRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListUsageForLicenseConfigurationRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ProvisionalConfiguration$MaxTimeToLiveInMinutes": " Maximum time for the provisional configuration, in minutes. "
}
},
"BoxLong": {
"base": null,
"refs": {
"ConsumedLicenseSummary$ConsumedLicenses": " Number of licenses consumed by the resource. ",
"CreateLicenseConfigurationRequest$LicenseCount": " Number of licenses managed by the license configuration. ",

"GetLicenseConfigurationResponse$LicenseCount": " Number of available licenses. ",
"GetLicenseConfigurationResponse$ConsumedLicenses": " Number of licenses assigned to resources. ",
"LicenseConfiguration$LicenseCount": " Number of licenses managed by the license configuration. ",
"LicenseConfiguration$ConsumedLicenses":
" Number of licenses consumed. ",
"LicenseConfigurationUsage$ConsumedLicenses": " Number of licenses consumed by the resource. ",
"ManagedResourceSummary$AssociationCount": " Number of resources associated with licenses. ",
"UpdateLicenseConfigurationRequest$LicenseCount": " New number of licenses managed by the license configuration. "
}
},
"CheckInLicenseRequest": {
"base": null,
"refs": {
}
},
"CheckInLicenseResponse": {
"base": null,
"refs": {
}
},
"CheckoutBorrowLicenseRequest": {
"base": null,
"refs": {
}
},
"CheckoutBorrowLicenseResponse": {
"base": null,
"refs": {
}
},
"CheckoutLicenseRequest": {
"base": null,
"refs": {
}
},
"CheckoutLicenseResponse": {
"base": null,
"refs": {
}
},
"CheckoutType": {
"base": null,
"refs": {
"CheckoutLicenseRequest$CheckoutType": " Checkout type. ",
"CheckoutLicenseResponse$CheckoutType": " Checkout type. "
}
},

"ClientRequestToken": {
"base": null,
"refs": {
"CreateLicenseManagerReportGeneratorRequest$ClientToken": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"UpdateLicenseManagerReportGeneratorRequest$ClientToken": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. "
}
},
"ClientToken": {
"base": null,
"refs": {
"CheckoutBorrowLicenseRequest$ClientToken": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"CheckoutLicenseRequest$ClientToken": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"CreateGrantRequest$ClientToken": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"CreateGrantVersionRequest$ClientToken": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"CreateLicenseRequest$ClientToken": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"CreateLicenseVersionRequest$ClientToken": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"CreateTokenRequest$ClientToken": " Idempotency token, valid for 10 minutes. "
}
},
"ConflictException": {
"base": " There was a conflict processing the request. Try your request again. ",
"refs": {
}
},
"ConsumedLicenseSummary": {
"base": " Details about license consumption. ",
"refs": {
"ConsumedLicenseSummaryList$member": null
}
},
"ConsumedLicenseSummaryList": {
"base": null,
"refs": {
"GetLicenseConfigurationResponse$ConsumedLicenseSummaryList": " Summaries of the licenses consumed by resources. ",
"LicenseConfiguration$ConsumedLicenseSummaryList": " Summaries for licenses consumed by various resources. "
}
},
"ConsumptionConfiguration": {

"base": " Details about a consumption configuration. ",
"refs": {
"CreateLicenseRequest$ConsumptionConfiguration": " Configuration for consumption of the license. Choose a provisional configuration for workloads running with continuous connectivity. Choose a borrow configuration for workloads with offline usage. ",
"CreateLicenseVersionRequest$ConsumptionConfiguration": " Configuration for consumption of the license. Choose a provisional configuration for workloads running with continuous connectivity. Choose a borrow configuration for workloads with offline usage. ",
"GrantedLicense$ConsumptionConfiguration": " Configuration for consumption of the license. ",
"License$ConsumptionConfiguration": " Configuration for consumption of the license. "
}
},
"CreateGrantRequest": {
"base": null,
"refs": {
}
},
"CreateGrantResponse": {
"base": null,
"refs": {
}
},
"CreateGrantVersionRequest": {
"base": null,
"refs": {
}
},
"CreateGrantVersionResponse": {
"base": null,
"refs": {
}
},
"CreateLicenseConfigurationRequest": {
"base": null,
"refs": {
}
},
"CreateLicenseConfigurationResponse": {
"base": null,
"refs": {
}
},
"CreateLicenseConversionTaskForResourceRequest": {
"base": null,
"refs": {
}
},

"CreateLicenseConversionTaskForResourceResponse": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseManagerReportGeneratorRequest": {
  "base": null,
  "refs": {

 }
},
"CreateLicenseManagerReportGeneratorResponse": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseRequest": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseResponse": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseVersionRequest": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseVersionResponse": {
  "base": null,
  "refs": {
  }
},
"CreateTokenRequest": {
  "base": null,
  "refs": {
  }
},
"CreateTokenResponse": {
  "base": null,
  "refs": {
  }
},
"DateTime": {
  "base": null,

"refs": {
"AutomatedDiscoveryInformation$LastRunTime": " Time that automated discovery last ran. ",
"GetLicenseConversionTaskResponse$StartTime": " Time at which the license type conversion task was started . ",
"GetLicenseConversionTaskResponse$LicenseConversionTime": " Amount of time to complete the license type conversion. ",
"GetLicenseConversionTaskResponse$EndTime": " Time at which the license type conversion task was completed. ",
"LicenseConfigurationAssociation$AssociationTime": " Time when the license configuration was associated with the resource. ",
"LicenseConfigurationUsage$AssociationTime": " Time when the license configuration was initially associated with the resource. ",
"LicenseConversionTask$StartTime": " The time the conversion task was started at. ",
"LicenseConversionTask$LicenseConversionTime": " The time the usage operation value of the resource was changed. ",
"LicenseConversionTask$EndTime": " The time the conversion task was completed. ",
"LicenseOperationFailure$FailureTime": " Failure time. "
}
},
"DatetimeRange": {
"base": " Describes a time range, in ISO8601-UTC format. ",
"refs": {
"CreateLicenseRequest$Validity": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"CreateLicenseVersionRequest$Validity": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"GrantedLicense$Validity": " Date and time range during which the granted license is valid, in ISO8601-UTC format. ",
"License$Validity": " Date and time range during which the license is valid, in ISO8601-UTC format. "
}
},
"DeleteGrantRequest": {
"base": null,
"refs": {
}
},
"DeleteGrantResponse": {
"base": null,
"refs": {
}
},
"DeleteLicenseConfigurationRequest": {
"base": null,
"refs": {
}
},
"DeleteLicenseConfigurationResponse": {
"base": null,

"refs": {
}
},
"DeleteLicenseManagerReportGeneratorRequest": {
"base": null,
"refs": {
}
},
"DeleteLicenseManagerReportGeneratorResponse": {
"base": null,
"refs": {
}
},
"DeleteLicenseRequest": {
"base": null,
"refs": {
}
},
"DeleteLicenseResponse": {
"base": null,
"refs": {
}
},
"DeleteTokenRequest": {
"base": null,
"refs": {
}
},
"DeleteTokenResponse": {
"base": null,
"refs": {
}
},
"DigitalSignatureMethod": {
"base": null,
"refs": {
"CheckoutBorrowLicenseRequest$DigitalSignatureMethod": " Digital signature method. The possible value is JSON Web Signature (JWS) algorithm PS384. For more information, see RFC 7518 Digital Signature with RSASSA-PSS. "
}
},
"Entitlement": {
"base": " Describes a resource entitled for use with a license. ",
"refs": {
"EntitlementList$member": null
}
},
"EntitlementData": {

"base": " Data associated with an entitlement resource. ",

"refs": {
"EntitlementDataList$member": null
}
},
"EntitlementDataList": {
"base": null,
"refs": {
"CheckoutBorrowLicenseRequest$Entitlements": " License entitlements. Partial checkouts are not supported. ",
"CheckoutBorrowLicenseResponse$EntitlementsAllowed": " Allowed license entitlements. ",
"CheckoutLicenseRequest$Entitlements": " License entitlements. ",
"CheckoutLicenseResponse$EntitlementsAllowed": " Allowed license entitlements. "
}
},
"EntitlementDataUnit": {
"base": null,
"refs": {
"EntitlementData$Unit": " Entitlement data unit. ",
"EntitlementUsage$Unit": " Entitlement usage unit. "
}
},
"EntitlementList": {
"base": null,
"refs": {
"CreateLicenseRequest$Entitlements": " License entitlements. ",
"CreateLicenseVersionRequest$Entitlements": " License entitlements. ",
"GrantedLicense$Entitlements": " License entitlements. ",
"License$Entitlements": " License entitlements. "
}
},
"EntitlementNotAllowedException": {
"base": " The entitlement is not allowed. ",
"refs": {
}
},
"EntitlementUnit": {
"base": null,
"refs": {
"Entitlement$Unit": " Entitlement unit. "
}
},
"EntitlementUsage": {
"base": " Usage associated with an entitlement resource. ",
"refs": {
"EntitlementUsageList$member": null

```
    }
  },
  "EntitlementUsageList": {
    "base": null,
    "refs": {
      "LicenseUsage$EntitlementUsages": "<p>License entitlement usages.</p>"
    }
  },
  "ExtendLicenseConsumptionRequest": {
    "base": null,
    "refs": {
    }
  },
  "ExtendLicenseConsumptionResponse": {
    "base": null,
    "refs": {
    }
  },
  "FailedDependencyException": {
    "base": "<p>A dependency required to run the API is missing.</p>",
     "refs": {
    }
  },
  "Filter": {
    "base": "<p>A filter name and value pair that is used to return more specific results from a describe operation. Filters can be used to match a set of resources by specific criteria, such as tags, attributes, or IDs.</p>",
    "refs": {
      "FilterList$member": null,
      "Filters$member": null
    }
  },
  "FilterLimitExceededException": {
    "base": "<p>The request uses too many filters or too many filter values.</p>",
    "refs": {
    }
  },
  "FilterList": {
    "base": null,
    "refs": {
      "ListDistributedGrantsRequest$Filters": "<p>Filters to scope the results. The following filters are supported:</p> <ul> <li> <p> <code>LicenseArn</code> </p> </li> <li> <p> <code>GrantStatus</code> </p> </li> <li> <p> <code>GranteePrincipalARN</code> </p> </li> <li> <p> <code>ProductSKU</code> </p> </li> <li> <p> <code>LicenseIssuerName</code> </p> </li> </ul>",
      "ListLicenseManagerReportGeneratorsRequest$Filters": "<p>Filters to scope the results. The following filters are supported: </p> <ul> <li> <p> <code>LicenseConfigurationArn</code> </p> </li> </ul>",
      "ListLicensesRequest$Filters": "<p>Filters to scope the results. The following filters are supported:</p> <ul> <li> <p> <code>Beneficiary</code> </p> </li> <li> <p> <code>ProductSKU</code> </p> </li> <li> <p>
```

<code>Fingerprint</code>   <code>Status</code> ",
"ListReceivedGrantsForOrganizationRequest$Filters": " Filters to scope the results. The following filters are supported: <ul> <code>ParentArn</code>   <code>GranteePrincipalArn</code> ",
"ListReceivedGrantsRequest$Filters": " Filters to scope the results. The following filters are supported: <ul> <code>ProductSKU</code>   <code>LicenseIssuerName</code>   <code>LicenseArn</code>   <code>GrantStatus</code>   <code>GranterAccountId</code> ",
"ListReceivedLicensesForOrganizationRequest$Filters": " Filters to scope the results. The following filters are supported: <ul> <code>Beneficiary</code>   <code>ProductSKU</code> ",
"ListReceivedLicensesRequest$Filters": " Filters to scope the results. The following filters are supported: <ul> <code>ProductSKU</code>   <code>Status</code>   <code>Fingerprint</code>   <code>IssuerName</code>   <code>Beneficiary</code> ",
"ListTokensRequest$Filters": " Filters to scope the results. The following filter is supported: <ul> <code>LicenseArns</code> "
}
},
"FilterName": {
"base": null,
"refs": {
"Filter$Name": " Name of the filter. Filter names are case-sensitive. "
}
},
"FilterValue": {
"base": null,
"refs": {
"FilterValues$member": null
}
},
"FilterValues": {
"base": null,
"refs": {
"Filter$Values": " The value of the filter, which is case-sensitive. You can only specify one value for the filter. "
}
},
"Filters": {
"base": null,
"refs": {
"ListLicenseConfigurationsRequest$Filters": " Filters to scope the results. The following filters and logical operators are supported: <ul> <code>licenseCountingType</code> - The dimension for which licenses are counted. Possible values are <code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.   <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license enforcement is used. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.

```
 </li> <li> <p> <code>usagelimitExceeded</code> - A Boolean value that indicates whether the available licenses have been exceeded. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> </ul>",
      "ListLicenseConversionTasksRequest$Filters": "<p> Filters to scope the results. Valid filters are <code>ResourceArns</code> and <code>Status</code>. </p>",
      "ListUsageForLicenseConfigurationRequest$Filters": "<p>Filters to scope the results. The following filters and logical operators are supported:</p> <ul> <li> <p> <code>resourceArn</code> - The ARN of the license configuration resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>resourceAccount</code> - The ID of the account that owns the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> </ul>"
    }
  },
  "GetAccessTokenRequest": {
    "base": null,
    "refs": {
    }
  },
  "GetAccessTokenResponse": {
    "base": null,
    "refs": {
    }
  },
  "GetGrantRequest": {
    "base": null,
    "refs": {
    }
  },
  "GetGrantResponse": {
    "base": null,
    "refs": {
    }
  },
  "GetLicenseConfigurationRequest": {
    "base": null,
    "refs": {
    }
  },
  "GetLicenseConfigurationResponse": {
    "base": null,
    "refs": {
    }
  },
  "GetLicenseConversionTaskRequest": {
    "base": null,
```

"refs": {
}
},
"GetLicenseConversionTaskResponse": {
"base": null,
"refs": {
}
},
"GetLicenseManagerReportGeneratorRequest": {
"base": null,
"refs": {
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},
"GetLicenseManagerReportGeneratorResponse": {
"base":
null,
"refs": {
}
},
"GetLicenseRequest": {
"base": null,
"refs": {
}
},
"GetLicenseResponse": {
"base": null,
"refs": {
}
},
"GetLicenseUsageRequest": {
"base": null,
"refs": {
}
},
"GetLicenseUsageResponse": {
"base": null,
"refs": {
}
},
"GetServiceSettingsRequest": {
"base": null,
"refs": {
}
},
"GetServiceSettingsResponse": {
"base": null,
"refs": {
}

```
  },
  "Grant": {
    "base": "<p>Describes a grant.</p>",
    "refs": {
      "GetGrantResponse$Grant": "<p>Grant details.</p>",
      "GrantList$member": null
    }
  },
  "GrantList": {
    "base": null,
    "refs": {
      "ListDistributedGrantsResponse$Grants": "<p>Distributed grant details.</p>",
      "ListReceivedGrantsForOrganizationResponse$Grants": "<p>Lists the grants the organization has
received.</p>",
      "ListReceivedGrantsResponse$Grants":
 "<p>Received grant details.</p>"
    }
  },
  "GrantStatus": {
    "base": null,
    "refs": {
      "AcceptGrantResponse$Status": "<p>Grant status.</p>",
      "CreateGrantResponse$Status": "<p>Grant status.</p>",
      "CreateGrantVersionRequest$Status": "<p>Grant status.</p>",
      "CreateGrantVersionResponse$Status": "<p>Grant status.</p>",
      "DeleteGrantResponse$Status": "<p>Grant status.</p>",
      "Grant$GrantStatus": "<p>Grant status.</p>",
      "RejectGrantResponse$Status": "<p>Grant status.</p>"
    }
  },
  "GrantedLicense": {
    "base": "<p>Describes a license that is granted to a grantee.</p>",
    "refs": {
      "GrantedLicenseList$member": null
    }
  },
  "GrantedLicenseList": {
    "base": null,
    "refs": {
      "ListReceivedLicensesForOrganizationResponse$Licenses": "<p>Lists the licenses the organization has
received.</p>",
      "ListReceivedLicensesResponse$Licenses": "<p>Received license
 details.</p>"
    }
  },
  "ISO8601DateTime": {
    "base": null,
    "refs": {
```

"CheckoutBorrowLicenseResponse$IssuedAt": " Date and time at which the license checkout is issued. ",
"CheckoutBorrowLicenseResponse$Expiration": " Date and time at which the license checkout expires. ",
"CheckoutLicenseResponse$IssuedAt": " Date and time at which the license checkout is issued. ",
"CheckoutLicenseResponse$Expiration": " Date and time at which the license checkout expires. ",
"DatetimeRange$Begin": " Start of the time range. ",
"DatetimeRange$End": " End of the time range. ",
"DeleteLicenseResponse$DeletionDate": " Date when the license is deleted. ",
"ExtendLicenseConsumptionResponse$Expiration": " Date and time at which the license consumption expires. ",
"GrantedLicense$CreateTime": " Creation time of the granted license. ",
"License$CreateTime": " License
creation time. ",
"TokenData$ExpirationTime": " Token expiration time, in ISO8601-UTC format. "
}
},
"Integer": {
"base": null,
"refs": {
"CreateTokenRequest$ExpirationInDays": " Token expiration, in days, counted from token creation. The default is 365 days. ",
"ReportFrequency$value": " Number of times within the frequency period that a report is generated. The only supported value is <code>1</code>. "
}
},
"InvalidParameterValueException": {
"base": " One or more parameter values are not valid. ",
"refs": {
}
},
"InvalidResourceStateException": {
"base": " License Manager cannot allocate a license to a resource because of its state. For example, you cannot allocate a license to an instance in the process of shutting down. ",
"refs": {
}
},
"InventoryFilter": {
"base": " An inventory filter. ",
"refs": {

"InventoryFilterList$member": null
}
},
"InventoryFilterCondition": {
"base": null,
"refs": {
"InventoryFilter$Condition": " Condition of the filter. "

```
    }
  },
  "InventoryFilterList": {
    "base": null,
    "refs": {
      "ListResourceInventoryRequest$Filters": "<p>Filters to scope the results. The following filters and logical operators are supported:</p> <ul> <li> <p> <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>application_name</code> - The name of the application. Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p> </li> <li> <p> <code>license_included</code> - The type of license included. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. Possible values are <code>sql-server-enterprise</code> | <code>sql-server-standard</code> | <code>sql-server-web</code>
 | <code>windows-server-datacenter</code>.</p> </li> <li> <p> <code>platform</code> - The platform of the resource. Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p> </li> <li> <p> <code>resource_id</code> - The ID of the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>tag:&lt;key&gt;</code> - The key/value combination of a tag assigned to the resource. Logical operators are <code>EQUALS</code> (single account) or <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account).</p> </li> </ul>"
    }
  },
  "Issuer": {
    "base": "<p>Details about the issuer of a license.</p>",
    "refs": {
      "CreateLicenseRequest$Issuer": "<p>License issuer.</p>",
      "CreateLicenseVersionRequest$Issuer": "<p>License issuer.</p>"
    }
  },
  "IssuerDetails": {
    "base": "<p>Details associated with the issuer of a license.</p>",
    "refs": {
      "GrantedLicense$Issuer": "<p>Granted
 license issuer.</p>",
      "License$Issuer": "<p>License issuer.</p>"
    }
  },
  "License": {
    "base": "<p>Software license that is managed in License Manager.</p>",
    "refs": {
      "GetLicenseResponse$License": "<p>License details.</p>",
      "LicenseList$member": null
    }
  },
  "LicenseConfiguration": {
    "base": "<p>A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM must be associated with a host), and the number of licenses purchased and used.</p>",
```

"refs": {
"LicenseConfigurations$member": null
}
},
"LicenseConfigurationAssociation": {
"base": " Describes an association with a license configuration. ",
"refs": {
"LicenseConfigurationAssociations$member": null
}
},
"LicenseConfigurationAssociations": {
"base": null,
"refs": {
"ListAssociationsForLicenseConfigurationResponse$LicenseConfigurationAssociations": " Information about the associations for the license configuration. "
}
},
"LicenseConfigurationStatus": {
"base": null,
"refs": {
"UpdateLicenseConfigurationRequest$LicenseConfigurationStatus": " New status of the license configuration. "
}
},
"LicenseConfigurationUsage": {
"base": " Details about the usage of a resource associated with a license configuration. ",
"refs": {
"LicenseConfigurationUsageList$member": null
}
},
"LicenseConfigurationUsageList": {
"base": null,
"refs": {
"ListUsageForLicenseConfigurationResponse$LicenseConfigurationUsageList": " Information about the license configurations. "
}

},
"LicenseConfigurations": {
"base": null,
"refs": {
"ListLicenseConfigurationsResponse$LicenseConfigurations": " Information about the license configurations. "
}
},
"LicenseConversionContext": {
"base": " Information about a license type conversion task. ",
"refs": {

"CreateLicenseConversionTaskForResourceRequest$SourceLicenseContext": " Information that identifies the license type you are converting from. For the structure of the source license, see Convert a license type using the CLI in the License Manager User Guide. ",
"CreateLicenseConversionTaskForResourceRequest$DestinationLicenseContext": " Information that identifies the license type you are converting to. For the structure of the destination license, see Convert
a license type using the CLI in the License Manager User Guide. ",
"GetLicenseConversionTaskResponse$SourceLicenseContext": " Information about the license type converted from. ",
"GetLicenseConversionTaskResponse$DestinationLicenseContext": " Information about the license type converted to. ",
"LicenseConversionTask$SourceLicenseContext": " Information about the license type this conversion task converted from. ",
"LicenseConversionTask$DestinationLicenseContext": " Information about the license type this conversion task converted to. "
}
},
"LicenseConversionTask": {
"base": " Information about a license type conversion task. ",
"refs": {
"LicenseConversionTasks$member": null
}
},
"LicenseConversionTaskId": {
"base": null,
"refs": {
"CreateLicenseConversionTaskForResourceResponse$LicenseConversionTaskId":
" The ID of the created license type conversion task. ",
"GetLicenseConversionTaskRequest$LicenseConversionTaskId": " ID of the license type conversion task to retrieve information on. ",
"GetLicenseConversionTaskResponse$LicenseConversionTaskId": " ID of the license type conversion task. ",
"LicenseConversionTask$LicenseConversionTaskId": " The ID of the license type conversion task. "
}
},
"LicenseConversionTaskStatus": {
"base": null,
"refs": {
"GetLicenseConversionTaskResponse$Status": " Status of the license type conversion task. ",
"LicenseConversionTask$Status": " The status of the conversion task. "
}
},
"LicenseConversionTasks": {
"base": null,
"refs": {
"ListLicenseConversionTasksResponse$LicenseConversionTasks": " Information about the license

configuration tasks for your account. "
    }
  },
  "LicenseCountingType":
 {
    "base": null,
    "refs": {
      "CreateLicenseConfigurationRequest$LicenseCountingType": " Dimension used to track the license inventory. ",
      "GetLicenseConfigurationResponse$LicenseCountingType": " Dimension for which the licenses are counted. ",
      "LicenseConfiguration$LicenseCountingType": " Dimension to use to track the license inventory. "
    }
  },
  "LicenseDeletionStatus": {
    "base": null,
    "refs": {
      "DeleteLicenseResponse$Status": " License status. "
    }
  },
  "LicenseList": {
    "base": null,
    "refs": {
      "ListLicenseVersionsResponse$Licenses": " License details. ",
      "ListLicensesResponse$Licenses": " License details. "
    }
  },
  "LicenseOperationFailure": {
    "base": " Describes the failure of a license operation. ",
    "refs": {
      "LicenseOperationFailureList$member": null
    }
  },
  "LicenseOperationFailureList": {
    "base":
 null,
    "refs": {
      "ListFailuresForLicenseConfigurationOperationsResponse$LicenseOperationFailureList": " License configuration operations that failed. "
    }
  },
  "LicenseSpecification": {
    "base": " Details for associating a license configuration with a resource. ",
    "refs": {
      "LicenseSpecifications$member": null
    }
  },
  "LicenseSpecifications": {

"base": null,
"refs": {
"ListLicenseSpecificationsForResourceResponse$LicenseSpecifications": " License configurations associated with a resource. ",
"UpdateLicenseSpecificationsForResourceRequest$AddLicenseSpecifications": " ARNs of the license configurations to add. ",
"UpdateLicenseSpecificationsForResourceRequest$RemoveLicenseSpecifications": " ARNs of the license configurations to remove. "
}
},
"LicenseStatus": {
"base": null,
"refs": {
"CreateLicenseResponse$Status": " License status. ",
"CreateLicenseVersionRequest$Status": " License status. ",
"CreateLicenseVersionResponse$Status": " License status. ",
"GrantedLicense$Status": " Granted license status. ",
"License$Status": " License status. "
}
},
"LicenseUsage": {
"base": " Describes the entitlement usage associated with a license. ",
"refs": {
"GetLicenseUsageResponse$LicenseUsage": " License usage details. "
}
},
"LicenseUsageException": {
"base": " You do not have enough licenses available to support a new resource launch. ",
"refs": {
}
},
"ListAssociationsForLicenseConfigurationRequest": {
"base": null,
"refs": {
}
},
"ListAssociationsForLicenseConfigurationResponse": {
"base": null,
"refs": {
}
},
"ListDistributedGrantsRequest": {
"base": null,
"refs": {
}
},
"ListDistributedGrantsResponse":

{
  "base": null,
  "refs": {
  }
 },
 "ListFailuresForLicenseConfigurationOperationsRequest": {
  "base": null,
  "refs": {
  }
 },
 "ListFailuresForLicenseConfigurationOperationsResponse": {
  "base": null,
  "refs": {
  }
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 "ListLicenseConfigurationsRequest": {
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  "refs": {
  }
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 "ListLicenseConfigurationsResponse": {
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  "refs": {
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 "ListLicenseConversionTasksRequest": {
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  "refs": {
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 "ListLicenseConversionTasksResponse": {
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  "refs": {
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 "ListLicenseManagerReportGeneratorsRequest": {
  "base": null,
  "refs": {
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 "ListLicenseManagerReportGeneratorsResponse": {
  "base": null,
  "refs": {
  }
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 "ListLicenseSpecificationsForResourceRequest": {
  "base": null,
  "refs": {

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    }
  },
  "ListLicenseSpecificationsForResourceResponse":
{
    "base": null,
    "refs": {
    }
  },
  "ListLicenseVersionsRequest": {
    "base": null,
    "refs": {
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  "ListLicenseVersionsResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListLicensesRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListLicensesResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListReceivedGrantsForOrganizationRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListReceivedGrantsForOrganizationResponse": {
    "base": null,
    "refs": {
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  },
  "ListReceivedGrantsRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListReceivedGrantsResponse": {
    "base": null,
    "refs": {
    }
  },
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"ListReceivedLicensesForOrganizationRequest": {
"base": null,
"refs": {
}
},
"ListReceivedLicensesForOrganizationResponse": {
"base": null,
"refs": {
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"ListReceivedLicensesRequest":
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"ListReceivedLicensesResponse": {
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},
"ListResourceInventoryRequest": {
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"ListResourceInventoryResponse": {
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"ListTagsForResourceRequest": {
"base": null,
"refs": {
}
},
"ListTagsForResourceResponse": {
"base": null,
"refs": {
}
},
"ListTokensRequest": {
"base": null,
"refs": {
}
},
"ListTokensResponse": {
"base": null,

"refs": {
}
},
"ListUsageForLicenseConfigurationRequest": {
"base": null,
"refs": {
}
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"ListUsageForLicenseConfigurationResponse": {
"base": null,
"refs": {
}
},
"Location": {
"base": null,
"refs": {
"RedirectException$Location": null
}
},
"Long":
{
"base": null,
"refs": {
"Entitlement$MaxCount": " Maximum entitlement count. Use if the unit is not None. "
}
},
"ManagedResourceSummary": {
"base": " Summary information about a managed resource. ",
"refs": {
"ManagedResourceSummaryList$member": null
}
},
"ManagedResourceSummaryList": {
"base": null,
"refs": {
"GetLicenseConfigurationResponse$ManagedResourceSummaryList": " Summaries of the managed resources. ",
"LicenseConfiguration$ManagedResourceSummaryList": " Summaries for managed resources. "
}
},
"MaxSize100": {
"base": null,
"refs": {
"ListDistributedGrantsRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListLicenseManagerReportGeneratorsRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListLicenseVersionsRequest$MaxResults": " Maximum

number of results to return in a single call. ",
"ListLicensesRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListReceivedGrantsForOrganizationRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListReceivedGrantsRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListReceivedLicensesForOrganizationRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListReceivedLicensesRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListTokensRequest$MaxResults": " Maximum number of results to return in a single call. "
}
},
"MaxSize3StringList": {
"base": null,
"refs": {
"CreateTokenRequest$TokenProperties": " Data specified by the caller to be included in the JWT token. The data is mapped to the amr claim of the JWT token. ",

"GetAccessTokenRequest$TokenProperties": " Token properties to validate against those present in the JWT token. ",
"TokenData$TokenProperties": " Data specified by the caller. "
}
},
"Message": {
"base": null,
"refs": {
"AccessDeniedException$Message": null,
"AuthorizationException$Message": null,
"ConflictException$Message": null,
"EntitlementNotAllowedException$Message": null,
"FailedDependencyException$Message": null,
"FilterLimitExceededException$Message": null,
"InvalidParameterValueException$Message": null,
"InvalidResourceStateException$Message": null,
"LicenseUsageException$Message": null,
"NoEntitlementsAllowedException$Message": null,
"RateLimitExceededException$Message": null,
"RedirectException$Message": null,
"ResourceLimitExceededException$Message": null,
"ResourceNotFoundException$Message": null,
"ServerInternalException$Message":
null,
"UnsupportedDigitalSignatureMethodException$Message": null,
"ValidationException$Message": null
}
},
"Metadata": {
"base": " Describes key/value pairs. ",
"refs": {

"MetadataList$member": null
}
},
"MetadataList": {
"base": null,
"refs": {
"CheckoutBorrowLicenseRequest$CheckoutMetadata": " Information about constraints. ",
"CheckoutBorrowLicenseResponse$CheckoutMetadata": " Information about constraints. ",
"CreateLicenseRequest$LicenseMetadata": " Information about the license. ",
"CreateLicenseVersionRequest$LicenseMetadata": " Information about the license. ",
"GrantedLicense$LicenseMetadata": " Granted license metadata. ",
"License$LicenseMetadata": " License metadata. ",
"LicenseOperationFailure$MetadataList": " Reserved. "
}
},
"NoEntitlementsAllowedException": {

"base": " There are no entitlements found for this license, or the entitlement maximum count is reached. ",
"refs": {
}
},
"Options": {
"base": " The options you can specify when you create a new version of a grant, such as activation override behavior. For more information, see Granted licenses in License Manager in the License Manager User Guide. ",
"refs": {
"CreateGrantVersionRequest$Options": " The options specified for the grant. ",
"Grant$Options": " The options specified for the grant. "
}
},
"OrganizationConfiguration": {
"base": " Configuration information for Organizations. ",
"refs": {
"GetServiceSettingsResponse$OrganizationConfiguration": " Indicates whether Organizations is integrated with License Manager for cross-account discovery. ",
"UpdateServiceSettingsRequest$OrganizationConfiguration": " Enables integration with Organizations for cross-account discovery. "
}
},
"PrincipalArnList": {
"base": null,
"refs": {
"CreateGrantRequest$Principals": " The grant principals. You can specify one of the following as an Amazon Resource Name (ARN): <ul> An Amazon Web Services account, which includes only the account specified.   An organizational unit (OU), which includes all accounts in the OU.   An organization, which will include all accounts across your organization. "

```
    }
  },
  "ProductInformation": {
    "base": "<p>Describes product information for a license configuration.</p>",
    "refs": {
      "ProductInformationList$member": null
    }
  },
  "ProductInformationFilter": {
    "base": "<p>Describes product information filters.</p>",
    "refs": {
      "ProductInformationFilterList$member":
null
    }
  },
  "ProductInformationFilterList": {
    "base": null,
    "refs": {
      "ProductInformation$ProductInformationFilterList": "<p>A Product information filter consists of a
<code>ProductInformationFilterComparator</code> which is a logical operator, a
<code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a
<code>ProductInformationFilterValue</code> that specifies the value to filter on. </p> <p>Accepted values for
<code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for
<code>ProductInformationFilterComparator</code>. </p> <p>The following filters and are supported when the
resource type is <code>SSM_MANAGED</code>:</p> <ul> <li> <p> <code>Application Name</code> - The
name of the application. Logical operator is <code>EQUALS</code>.</p> </li> <li> <p> <code>Application
Publisher</code> - The publisher of the application. Logical operator is <code>EQUALS</code>.</p>
 </li> <li> <p> <code>Application Version</code> - The version of the application. Logical operator is
<code>EQUALS</code>.</p> </li> <li> <p> <code>Platform Name</code> - The name of the platform. Logical
operator is <code>EQUALS</code>.</p> </li> <li> <p> <code>Platform Type</code> - The platform type.
Logical operator is <code>EQUALS</code>.</p> </li> <li> <p> <code>Tag:key</code> - The key of a tag
attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is
<code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the
example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you
are not using values for the key. </p> </li> <li> <p> <code>AccountId</code> - The 12-digit ID of an Amazon
Web Services account you wish to exclude from automated discovery. Logical operator is
<code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>License Included</code> -
 The type of license included. Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.
Possible values are: <code>sql-server-enterprise</code> | <code>sql-server-standard</code> | <code>sql-server-
web</code> | <code>windows-server-datacenter</code>.</p> </li> </ul> <p>The following filters and logical
operators are supported when the resource type is <code>RDS</code>:</p> <ul> <li> <p> <code>Engine
Edition</code> - The edition of the database engine. Logical operator is <code>EQUALS</code>. Possible values
are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>.</p>
</li> <li> <p> <code>License Pack</code> - The license pack. Logical operator is <code>EQUALS</code>.
Possible values are: <code>data guard</code> | <code>diagnostic pack sqlt</code> | <code>tuning pack
sqlt</code> | <code>ols</code> | <code>olap</code>.</p> </li> </ul>"
    }
  },
```

"ProductInformationList": {
"base": null,
"refs": {
"CreateLicenseConfigurationRequest$ProductInformationList":
" Product information. ",
"GetLicenseConfigurationResponse$ProductInformationList": " Product information. ",
"LicenseConfiguration$ProductInformationList": " Product information. ",
"UpdateLicenseConfigurationRequest$ProductInformationList": " New product information. "
}
},
"ProvisionalConfiguration": {
"base": " Details about a provisional configuration. ",
"refs": {
"ConsumptionConfiguration$ProvisionalConfiguration": " Details about a provisional configuration. "
}
},
"RateLimitExceededException": {
"base": " Too many requests have been submitted. Try again after a brief wait. ",
"refs": {
}
},
"ReceivedMetadata": {
"base": " Metadata associated with received licenses and grants. ",
"refs": {
"GrantedLicense$ReceivedMetadata": " Granted license received metadata. "
}
},
"ReceivedStatus": {
"base": null,
"refs": {
"ReceivedMetadata$ReceivedStatus": " Received status. "
}
},
"RedirectException": {
"base": " This is not the correct Region for the resource. Try again. ",
"refs": {
}
},
"RejectGrantRequest": {
"base": null,
"refs": {
}
},
"RejectGrantResponse": {
"base": null,
"refs": {
}
},

"RenewType": {
"base": null,
"refs": {
"ConsumptionConfiguration$RenewType": " Renewal frequency. "
}
},
"ReportContext": {
"base": " Details of the license configuration that this generator reports on. ",
"refs": {
"CreateLicenseManagerReportGeneratorRequest$ReportContext": " Defines the type of license configuration the report generator tracks. ",
"ReportGenerator$ReportContext": " License configuration type for this generator. ",
"UpdateLicenseManagerReportGeneratorRequest$ReportContext": " The report context. "
}
},
"ReportFrequency": {
"base": " Details about how frequently reports are generated. ",
"refs": {
"CreateLicenseManagerReportGeneratorRequest$ReportFrequency": " Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly. ",
"ReportGenerator$ReportFrequency": " Details about how frequently reports are generated. ",
"UpdateLicenseManagerReportGeneratorRequest$ReportFrequency": " Frequency by which reports are generated. "
}
},
"ReportFrequencyType": {
"base": null,
"refs": {
"ReportFrequency$period": " Time period between each report. The period can be daily, weekly, or monthly. "
}
},
"ReportGenerator": {
"base": " Describe the details of a report generator. ",
"refs": {
"GetLicenseManagerReportGeneratorResponse$ReportGenerator": " A report generator that creates periodic reports about your license configurations. ",
"ReportGeneratorList$member": null
}
},
"ReportGeneratorList": {
"base": null,
"refs": {
"ListLicenseManagerReportGeneratorsResponse$ReportGenerators": " A report generator that creates periodic reports about your license configurations. "
}
},

"ReportGeneratorName": {
"base": null,
"refs": {
"CreateLicenseManagerReportGeneratorRequest$ReportGeneratorName": " Name of the report generator. ",
"UpdateLicenseManagerReportGeneratorRequest$ReportGeneratorName": " Name of the report generator. "
}
},
"ReportType": {
"base": null,
"refs": {
"ReportTypeList$member": null
}
},
"ReportTypeList": {
"base": null,
"refs": {
"CreateLicenseManagerReportGeneratorRequest$Type": " Type of reports to generate. The following report types an
be generated: <ul> License configuration report - Reports the number and details of consumed licenses for a license configuration.   Resource report - Reports the tracked licenses and resource consumption for a license configuration. ",
"ReportGenerator$ReportType": " Type of reports that are generated. ",
"UpdateLicenseManagerReportGeneratorRequest$Type": " Type of reports to generate. The following report types are supported: <ul> License configuration report - Reports the number and details of consumed licenses for a license configuration.   Resource report - Reports the tracked licenses and resource consumption for a license configuration. "
}
},
"ResourceInventory": {
"base": " Details about a resource. ",
"refs": {
"ResourceInventoryList$member": null
}
},
"ResourceInventoryList": {
"base": null,
"refs": {
"ListResourceInventoryResponse$ResourceInventoryList": " Information about the resources. "
}
},
"ResourceLimitExceededException": {
"base": " Your resource limits have been exceeded. ",
"refs": {
}
},
"ResourceNotFoundException": {

"base": " The resource cannot be found. ",
"refs": {
}
},
"ResourceType": {
"base": null,
"refs": {
"ConsumedLicenseSummary$ResourceType": " Resource type of the resource consuming a license. ",
"LicenseConfigurationAssociation$ResourceType": " Type of server resource. ",
"LicenseConfigurationUsage$ResourceType": " Type of resource. ",
"LicenseOperationFailure$ResourceType": " Resource type. ",
"ManagedResourceSummary$ResourceType": " Type of resource associated with a license. ",
"ResourceInventory$ResourceType": " Type of resource. "
}
},
"S3Location": {
"base":
" Details of the S3 bucket that report generator reports are published to. ",
"refs": {
"ReportGenerator$S3Location": " Details of the S3 bucket that report generator reports are published to. "
}
},
"ServerInternalException": {
"base": " The server experienced an internal error. Try again. ",
"refs": {
}
},
"SignedToken": {
"base": null,
"refs": {
"CheckoutBorrowLicenseResponse$SignedToken": " Signed token. ",
"CheckoutLicenseResponse$SignedToken": " Signed token. "
}
},
"StatusReasonMessage": {
"base": null,
"refs": {
"CreateGrantVersionRequest$StatusReason": " Grant status reason. ",
"DeleteGrantRequest$StatusReason": " The Status reason for the delete request. ",
"Grant$StatusReason": " Grant status reason. ",
"ReceivedMetadata$ReceivedStatusReason": " Received status reason. "
}
},

"String": {
"base": null,
"refs": {

"AcceptGrantResponse$Version": " Grant version. ",
"CheckInLicenseRequest$LicenseConsumptionToken": " License consumption token. ",
"CheckInLicenseRequest$Beneficiary": " License beneficiary. ",
"CheckoutBorrowLicenseRequest$NodeId": " Node ID. ",
"CheckoutBorrowLicenseResponse$LicenseConsumptionToken": " License consumption token. ",
"CheckoutBorrowLicenseResponse$NodeId": " Node ID. ",
"CheckoutLicenseRequest$ProductSKU": " Product SKU. ",
"CheckoutLicenseRequest$KeyFingerprint": " Key fingerprint identifying the license. ",
"CheckoutLicenseRequest$Beneficiary": " License beneficiary. ",
"CheckoutLicenseRequest$NodeId": " Node ID. ",
"CheckoutLicenseResponse$LicenseConsumptionToken": " License consumption token. ",
"CheckoutLicenseResponse$NodeId": " Node ID. ",
"CheckoutLicenseResponse$LicenseArn":
" Amazon Resource Name (ARN) of the checkout license. ",
"CreateGrantRequest$GrantName": " Grant name. ",
"CreateGrantRequest$HomeRegion": " Home Region of the grant. ",
"CreateGrantResponse$Version": " Grant version. ",
"CreateGrantVersionRequest$GrantName": " Grant name. ",
"CreateGrantVersionRequest$SourceVersion": " Current version of the grant. ",
"CreateGrantVersionResponse$Version": " New version of the grant. ",
"CreateLicenseConfigurationRequest$Name": " Name of the license configuration. ",
"CreateLicenseConfigurationRequest$Description": " Description of the license configuration. ",
"CreateLicenseConfigurationResponse$LicenseConfigurationArn": " Amazon Resource Name (ARN) of the license configuration. ",
"CreateLicenseManagerReportGeneratorRequest$Description": " Description of the report generator. ",
"CreateLicenseManagerReportGeneratorResponse$LicenseManagerReportGeneratorArn":
" The Amazon Resource Name (ARN) of the new report generator. ",
"CreateLicenseRequest$LicenseName": " License name. ",
"CreateLicenseRequest$ProductName": " Product name. ",
"CreateLicenseRequest$ProductSKU": " Product SKU. ",
"CreateLicenseRequest$HomeRegion": " Home Region for the license. ",
"CreateLicenseRequest$Beneficiary": " License beneficiary. ",
"CreateLicenseResponse$Version": " License version. ",
"CreateLicenseVersionRequest$LicenseName": " License name. ",
"CreateLicenseVersionRequest$ProductName": " Product name. ",
"CreateLicenseVersionRequest$HomeRegion": " Home Region of the license. ",
"CreateLicenseVersionRequest$SourceVersion": " Current version of the license. ",
"CreateLicenseVersionResponse$Version": " New version of the license. ",
"CreateTokenResponse$TokenId":
" Token ID. ",
"DeleteGrantRequest$Version": " Current version of the grant. ",
"DeleteGrantResponse$Version": " Grant version. ",
"DeleteLicenseConfigurationRequest$LicenseConfigurationArn": " ID of the license configuration. ",
"DeleteLicenseManagerReportGeneratorRequest$LicenseManagerReportGeneratorArn": " Amazon Resource Name (ARN) of the report generator to be deleted. ",
"DeleteLicenseRequest$SourceVersion": " Current version of the license. ",
"DeleteTokenRequest$TokenId": " Token ID. ",
"Entitlement$Name": " Entitlement name. ",

"Entitlement$Value": " Entitlement resource. Use only if the unit is None. ",
"EntitlementData$Name": " Entitlement data name. ",
"EntitlementData$Value": " Entitlement data value. ",
"EntitlementUsage$Name": " Entitlement usage name. ",
"EntitlementUsage$ConsumedValue":
" Resource usage consumed. ",
"EntitlementUsage$MaxCount": " Maximum entitlement usage count. ",
"ExtendLicenseConsumptionRequest$LicenseConsumptionToken": " License consumption token. ",
"ExtendLicenseConsumptionResponse$LicenseConsumptionToken": " License consumption token. ",
"FailedDependencyException$ErrorCode": null,
"GetGrantRequest$Version": " Grant version. ",
"GetLicenseConfigurationRequest$LicenseConfigurationArn": " Amazon Resource Name (ARN) of the license configuration. ",
"GetLicenseConfigurationResponse$LicenseConfigurationId": " Unique ID for the license configuration. ",
"GetLicenseConfigurationResponse$LicenseConfigurationArn": " Amazon Resource Name (ARN) of the license configuration. ",
"GetLicenseConfigurationResponse$Name": " Name of the license configuration. ",
"GetLicenseConfigurationResponse$Description": " Description of the license
configuration. ",
"GetLicenseConfigurationResponse$Status": " License configuration status. ",
"GetLicenseConfigurationResponse$OwnerAccountId": " Account ID of the owner of the license configuration. ",
"GetLicenseConversionTaskResponse$ResourceArn": " Amazon Resource Names (ARN) of the resources the license conversion task is associated with. ",
"GetLicenseConversionTaskResponse$StatusMessage": " The status message for the conversion task. ",
"GetLicenseManagerReportGeneratorRequest$LicenseManagerReportGeneratorArn": " Amazon Resource Name (ARN) of the report generator. ",
"GetLicenseRequest$Version": " License version. ",
"GetServiceSettingsResponse$S3BucketArn": " Regional S3 bucket path for storing reports, license trail event data, discovery data, and so on. ",
"GetServiceSettingsResponse$SnsTopicArn": " SNS topic configured to receive notifications from License Manager. ",
"GetServiceSettingsResponse$LicenseManagerResourceShareArn": " Amazon Resource Name (ARN) of the resource share. The License Manager management account provides member accounts with access to this share. ",
"Grant$GrantName": " Grant name. ",
"Grant$HomeRegion": " Home Region of the grant. ",
"Grant$Version": " Grant version. ",
"GrantedLicense$LicenseName": " License name. ",
"GrantedLicense$ProductName": " Product name. ",
"GrantedLicense$ProductSKU": " Product SKU. ",
"GrantedLicense$HomeRegion": " Home Region of the granted license. ",
"GrantedLicense$Beneficiary": " Granted license beneficiary. ",
"GrantedLicense$Version": " Version of the granted license. ",
"InventoryFilter$Name": " Name of the filter. ",
"InventoryFilter$Value": " Value of the filter. ",
"Issuer$Name": " Issuer name. ",

"Issuer$SignKey":
" Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, and support the RSASSA-PSS SHA-256 signing algorithm. ",
"IssuerDetails$Name": " Issuer name. ",
"IssuerDetails$SignKey": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, and support the RSASSA-PSS SHA-256 signing algorithm. ",
"IssuerDetails$KeyFingerprint": " Issuer key fingerprint. ",
"License$LicenseName": " License name. ",
"License$ProductName": " Product name. ",
"License$ProductSKU": " Product SKU. ",
"License$HomeRegion": " Home Region of the license. ",
"License$Beneficiary": " License beneficiary. ",
"License$Version": " License version. ",
"LicenseConfiguration$LicenseConfigurationId": " Unique ID of the license configuration. ",
"LicenseConfiguration$LicenseConfigurationArn":
" Amazon Resource Name (ARN) of the license configuration. ",
"LicenseConfiguration$Name": " Name of the license configuration. ",
"LicenseConfiguration$Description": " Description of the license configuration. ",
"LicenseConfiguration$Status": " Status of the license configuration. ",
"LicenseConfiguration$OwnerAccountId": " Account ID of the license configuration's owner. ",
"LicenseConfigurationAssociation$ResourceArn": " Amazon Resource Name (ARN) of the resource. ",
"LicenseConfigurationAssociation$ResourceOwnerId": " ID of the Amazon Web Services account that owns the resource consuming licenses. ",
"LicenseConfigurationAssociation$AmiAssociationScope": " Scope of AMI associations. The possible value is <code>cross-account</code>. ",
"LicenseConfigurationUsage$ResourceArn": " Amazon Resource Name (ARN) of the resource. ",
"LicenseConfigurationUsage$ResourceStatus":
" Status of the resource. ",
"LicenseConfigurationUsage$ResourceOwnerId": " ID of the account that owns the resource. ",
"LicenseConversionTask$ResourceArn": " The Amazon Resource Name (ARN) of the resource associated with the license type conversion task. ",
"LicenseConversionTask$StatusMessage": " The status message for the conversion task. ",
"LicenseOperationFailure$ResourceArn": " Amazon Resource Name (ARN) of the resource. ",
"LicenseOperationFailure$ErrorMessage": " Error message. ",
"LicenseOperationFailure$OperationName": " Name of the operation. ",
"LicenseOperationFailure$ResourceOwnerId": " ID of the Amazon Web Services account that owns the resource. ",
"LicenseOperationFailure$OperationRequestedBy": " The requester is \"License Manager Automated Discovery\". ",
"LicenseSpecification$LicenseConfigurationArn": " Amazon Resource Name (ARN) of the license configuration. ",
"LicenseSpecification$AmiAssociationScope": " Scope of AMI associations. The possible value is <code>cross-account</code>. ",
"ListAssociationsForLicenseConfigurationRequest$LicenseConfigurationArn": " Amazon Resource Name (ARN) of a license configuration. ",
"ListAssociationsForLicenseConfigurationRequest$NextToken": " Token for the next set of results. ",
"ListAssociationsForLicenseConfigurationResponse$NextToken": " Token for the next set of results. ",
"ListDistributedGrantsRequest$NextToken": " Token for the next set of results. ",

"ListDistributedGrantsResponse$NextToken": " Token for the next set of results. ",
"ListFailuresForLicenseConfigurationOperationsRequest$LicenseConfigurationArn": " Amazon Resource Name of the license configuration. ",
"ListFailuresForLicenseConfigurationOperationsRequest$NextToken": " Token for the next set of results. ",

"ListFailuresForLicenseConfigurationOperationsResponse$NextToken": " Token for the next set of results. ",
"ListLicenseConfigurationsRequest$NextToken": " Token for the next set of results. ",
"ListLicenseConfigurationsResponse$NextToken": " Token for the next set of results. ",
"ListLicenseConversionTasksRequest$NextToken": " Token for the next set of results. ",
"ListLicenseConversionTasksResponse$NextToken": " Token for the next set of results. ",
"ListLicenseManagerReportGeneratorsRequest$NextToken": " Token for the next set of results. ",
"ListLicenseManagerReportGeneratorsResponse$NextToken": " Token for the next set of results. ",
"ListLicenseSpecificationsForResourceRequest$ResourceArn": " Amazon Resource Name (ARN) of a resource that has an associated license configuration. ",
"ListLicenseSpecificationsForResourceRequest$NextToken": " Token for the next set of results. ",
"ListLicenseSpecificationsForResourceResponse$NextToken": " Token for the next set of results. ",
"ListLicenseVersionsRequest$NextToken": " Token for the next set of results. ",
"ListLicenseVersionsResponse$NextToken": " Token for the next set of results. ",
"ListLicensesRequest$NextToken": " Token for the next set of results. ",
"ListLicensesResponse$NextToken": " Token for the next set of results. ",
"ListReceivedGrantsForOrganizationRequest$NextToken": " Token for the next set of results. ",
"ListReceivedGrantsForOrganizationResponse$NextToken": " Token for the next set of results. ",
"ListReceivedGrantsRequest$NextToken": " Token for the next set of results. ",
"ListReceivedGrantsResponse$NextToken": " Token for the next set of results. ",
"ListReceivedLicensesForOrganizationRequest$NextToken": " Token for the next set of results. ",
"ListReceivedLicensesForOrganizationResponse$NextToken": " Token for the next set of results. ",
"ListReceivedLicensesRequest$NextToken": " Token for the next set of results. ",
"ListReceivedLicensesResponse$NextToken": " Token for the next set of results. ",
"ListResourceInventoryRequest$NextToken": " Token for the next set of results. ",
"ListResourceInventoryResponse$NextToken": " Token for the next set of results. ",
"ListTagsForResourceRequest$ResourceArn": " Amazon Resource Name (ARN) of the license configuration. ",
"ListTokensRequest$NextToken": " Token for the next set of results. ",
"ListTokensResponse$NextToken": " Token for the next set of results. ",
"ListUsageForLicenseConfigurationRequest$LicenseConfigurationArn": " Amazon Resource Name (ARN) of the license configuration. ",
"ListUsageForLicenseConfigurationRequest$NextToken": " Token for the next set of results. ",
"ListUsageForLicenseConfigurationResponse$NextToken": " Token for the next set of results. ",
"MaxSize3StringList$member": null,
"Metadata$Name": " The key name. ",
"Metadata$Value": " The value. ",
"ProductInformation$ResourceType": " Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"ProductInformationFilter$ProductInformationFilterName": " Filter name. ",
"ProductInformationFilter$ProductInformationFilterComparator": " Logical operator. ",

"RejectGrantResponse$Version": " Grant version. ",
"ReportGenerator$ReportGeneratorName": " Name of the report generator. ",
"ReportGenerator$LicenseManagerReportGeneratorArn": " Amazon Resource Name (ARN) of the report generator. ",
"ReportGenerator$LastRunStatus": " Status of the last report generation attempt. ",
"ReportGenerator$LastRunFailureReason": " Failure message for the last report generation attempt. ",
"ReportGenerator$LastReportGenerationTime": " Time the last report was generated at. ",
"ReportGenerator$ReportCreatorAccount": " The Amazon Web Services account ID used to create the report generator. ",
"ReportGenerator$Description": " Description of the report generator. ",
"ReportGenerator$CreateTime": " Time the report was created. ",
"ResourceInventory$ResourceId": " ID of the resource. ",
"ResourceInventory$ResourceArn": " Amazon Resource Name (ARN) of the resource. ",
"ResourceInventory$Platform": " Platform of the resource. ",
"ResourceInventory$PlatformVersion": " Platform version of the resource in the inventory. ",
"ResourceInventory$ResourceOwningAccountId": " ID of the account that owns the resource. ",
"S3Location$bucket": " Name of the S3 bucket reports are published to. ",

"S3Location$keyPrefix": " Prefix of the S3 bucket reports are published to. ",
"StringList$member": null,
"Tag$Key": " Tag key. ",
"Tag$Value": " Tag value. ",
"TagKeyList$member": null,
"TagResourceRequest$ResourceArn": " Amazon Resource Name (ARN) of the license configuration. ",
"TokenData$TokenId": " Token ID. ",
"TokenData$TokenType": " Type of token generated. The supported value is <code>REFRESH_TOKEN</code>. ",
"TokenData$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"TokenData$Status": " Token status. The possible values are <code>AVAILABLE</code> and <code>DELETED</code>. ",
"UntagResourceRequest$ResourceArn": " Amazon Resource Name (ARN) of the license configuration. ",
"UpdateLicenseConfigurationRequest$LicenseConfigurationArn": " Amazon Resource Name (ARN) of the license configuration. ",
"UpdateLicenseConfigurationRequest$Name": " New name of the license configuration. ",
"UpdateLicenseConfigurationRequest$Description": " New description of the license configuration. ",
"UpdateLicenseManagerReportGeneratorRequest$LicenseManagerReportGeneratorArn": " Amazon Resource Name (ARN) of the report generator to update. ",
"UpdateLicenseManagerReportGeneratorRequest$Description": " Description of the report generator. ",
"UpdateLicenseSpecificationsForResourceRequest$ResourceArn": " Amazon Resource Name (ARN) of the Amazon Web Services resource. ",
"UpdateServiceSettingsRequest$S3BucketArn": " Amazon Resource Name (ARN) of the Amazon S3 bucket where the License Manager information is stored. ",
"UpdateServiceSettingsRequest$SnsTopicArn": " Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts. "
}

```
  },
  "StringList": {
    "base": null,
    "refs": {
      "CreateLicenseConfigurationRequest$LicenseRules":
 "<p>License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The
available rules vary by dimension, as follows.</p> <ul> <li> <p> <code>Cores</code> dimension:
<code>allowedTenancy</code> | <code>licenseAffinityToHost</code> | <code>maximumCores</code> |
<code>minimumCores</code> </p> </li> <li> <p> <code>Instances</code> dimension:
<code>allowedTenancy</code> | <code>maximumCores</code> | <code>minimumCores</code> |
<code>maximumSockets</code> | <code>minimumSockets</code> | <code>maximumVcpus</code> |
<code>minimumVcpus</code> </p> </li> <li> <p> <code>Sockets</code> dimension:
<code>allowedTenancy</code> | <code>licenseAffinityToHost</code> | <code>maximumSockets</code> |
<code>minimumSockets</code> </p> </li> <li> <p> <code>vCPUs</code> dimension:
<code>allowedTenancy</code> | <code>honorVcpuOptimization</code> | <code>maximumVcpus</code> |
<code>minimumVcpus</code> </p> </li> </ul> <p>The unit for <code>licenseAffinityToHost</code>
 is days and the range is 1 to 180. The possible values for <code>allowedTenancy</code> are <code>EC2-
Default</code>, <code>EC2-DedicatedHost</code>, and <code>EC2-DedicatedInstance</code>. The possible
values for <code>honorVcpuOptimization</code> are <code>True</code> and <code>False</code>.</p>",
      "GetLicenseConfigurationResponse$LicenseRules": "<p>License rules.</p>",
      "LicenseConfiguration$LicenseRules": "<p>License rules.</p>",
      "ListLicenseConfigurationsRequest$LicenseConfigurationArns": "<p>Amazon Resource Names (ARN) of the
license configurations.</p>",
      "ListTokensRequest$TokenIds": "<p>Token IDs.</p>",
      "ProductInformationFilter$ProductInformationFilterValue": "<p>Filter value.</p>",
      "UpdateLicenseConfigurationRequest$LicenseRules": "<p>New license rule. The only rule that you can add
after you create a license configuration is licenseAffinityToHost.</p>"
    }
  },
  "Tag": {
    "base": "<p>Details about a tag
 for a license configuration.</p>",
    "refs": {
      "TagList$member": null
    }
  },
  "TagKeyList": {
    "base": null,
    "refs": {
      "UntagResourceRequest$TagKeys": "<p>Keys identifying the tags to remove.</p>"
    }
  },
  "TagList": {
    "base": null,
    "refs": {
      "CreateLicenseConfigurationRequest$Tags": "<p>Tags to add to the license configuration.</p>",
      "CreateLicenseManagerReportGeneratorRequest$Tags": "<p>Tags to add to the report generator.</p>",
      "GetLicenseConfigurationResponse$Tags": "<p>Tags for the license configuration.</p>",
```

"ListTagsForResourceResponse$Tags": " Information about the tags. ",
"ReportGenerator$Tags": " Tags associated with the report generator. ",
"TagResourceRequest$Tags": " One or more tags. "
}
},
"TagResourceRequest": {
"base": null,
"refs": {
}
},
"TagResourceResponse": {
"base": null,
"refs": {

}
},
"TokenData": {
"base": " Describes a token. ",
"refs": {
"TokenList$member": null
}
},
"TokenList": {
"base": null,
"refs": {
"ListTokensResponse$Tokens": " Received token details. "
}
},
"TokenString": {
"base": null,
"refs": {
"CreateTokenResponse$Token": " Refresh token, encoded as a JWT token. ",
"GetAccessTokenRequest$Token": " Refresh token, encoded as a JWT token. ",
"GetAccessTokenResponse$AccessToken": " Temporary access token. "
}
},
"TokenType": {
"base": null,
"refs": {
"CreateTokenResponse$TokenType": " Token type. "
}
},
"UnsupportedDigitalSignatureMethodException": {
"base": " The digital signature method is unsupported. Try your request again. ",
"refs": {
}
},
"UntagResourceRequest": {

"base": null,
"refs": {
}
},
"UntagResourceResponse":
{
"base": null,
"refs": {
}
},
"UpdateLicenseConfigurationRequest": {
"base": null,
"refs": {
}
},
"UpdateLicenseConfigurationResponse": {
"base": null,
"refs": {
}
},
"UpdateLicenseManagerReportGeneratorRequest": {
"base": null,
"refs": {
}
},
"UpdateLicenseManagerReportGeneratorResponse": {
"base": null,
"refs": {
}
},
"UpdateLicenseSpecificationsForResourceRequest": {
"base": null,
"refs": {
}
},
"UpdateLicenseSpecificationsForResourceResponse": {
"base": null,
"refs": {
}
},
"UpdateServiceSettingsRequest": {
"base": null,
"refs": {
}
},
"UpdateServiceSettingsResponse": {
"base": null,
"refs": {

```
    }
  },
  "UsageOperation": {
    "base": null,
    "refs": {
      "LicenseConversionContext$UsageOperation": "<p>The Usage operation value
 that corresponds to the license type you are converting your resource from. For more information about which
platforms correspond to which usage operation values see <a
href=\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-info-fields.html#billing-info\">Sample
data: usage operation by platform </a> </p>"
    }
  },
  "ValidationException": {
    "base": "<p>The provided input is not valid. Try your request again.</p>",
    "refs": {
    }
  }
 }
}
{
  "testCases": [
    {
      "documentation": "For region af-south-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.af-south-1.amazonaws.com"
        }
      },
      "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "af-south-1"
      }
    },
    {
      "documentation": "For region ap-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-east-1.amazonaws.com"
        }
      },
      "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "ap-east-1"
      }
    },
    {
```

"documentation": "For region ap-northeast-1 with FIPS disabled and DualStack disabled",

"expect": {
"endpoint": {
"url": "https://license-manager.ap-northeast-1.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "ap-northeast-1"
}
},
{
"documentation": "For region ap-northeast-2 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-northeast-2.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "ap-northeast-2"
}
},
{
"documentation": "For region ap-northeast-3 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-northeast-3.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "ap-northeast-3"
}
},
{
"documentation": "For region ap-south-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-south-1.amazonaws.com"
}
},
"params": {
"UseFIPS": false,

"UseDualStack": false,
"Region": "ap-south-1"
}
},
{
"documentation": "For region ap-southeast-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-southeast-1.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack":
false,
"Region": "ap-southeast-1"
}
},
{
"documentation": "For region ap-southeast-2 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-southeast-2.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "ap-southeast-2"
}
},
{
"documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-southeast-3.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
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"Region": "eu-north-1"
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        }
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            "Region": "eu-west-1"
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        "expect": {
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    "expect": {

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    "params": {
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    }
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      "expect": {
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      "params": {
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        "UseDualStack": false,
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      "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
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},
"params": {

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        "UseDualStack": true,
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        "type": "String"
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        "builtIn": "AWS::UseDualStack",
        "required": true,
        "default": false,
        "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
        "type": "Boolean"
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"ref": "Endpoint"
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                        "argv": [
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                                "ref": "PartitionResult"
                            },
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                        ]
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                    "conditions": [],
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        "type": "error"
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"result_key": "InstanceUserSummaries"
}
}
}
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 "version":"2.0",
 "metadata":{
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   "jsonVersion":"1.1",
   "protocol":"rest-json",
   "serviceFullName":"AWS License Manager User Subscriptions",
   "serviceId":"License Manager User Subscriptions",
   "signatureVersion":"v4",
   "signingName":"license-manager-user-subscriptions",
   "uid":"license-manager-user-subscriptions-2018-05-10"
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       "responseCode":200
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  ]
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    "InstanceId",
    "Username"
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    "InstanceId":{"shape":"String"},
    "Username":{"shape":"String"}
  }
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"BoxInteger":{
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  "box":true
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"ConflictException":{
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  "exception":true,
  "fault":true
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"DeregisterIdentityProviderRequest":{
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  "members":{
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    "Operation":{"shape":"String"},
    "Value":{"shape":"String"}
  }
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"FilterList":{
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   "member":{"shape":"Filter"}
},
"IdentityProvider":{
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  "members":{
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  },
  "union":true
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"IdentityProviderSummary":{
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  "required":[
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    "Product",
    "Settings",
    "Status"
  ],
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    "IdentityProvider":{"shape":"IdentityProvider"},
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    "Settings":{"shape":"Settings"},
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  }
},
"IdentityProviderSummaryList":{
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    "LastStatusCheckDate":{"shape":"String"},
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    "Status":{"shape":"String"},
    "StatusMessage":{"shape":"String"}
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"InstanceSummaryList":{
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  "members":{
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    "DisassociationDate":{"shape":"String"},
    "Domain":{"shape":"String"},
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    "Status":{"shape":"String"},
    "StatusMessage":{"shape":"String"},
    "Username":{"shape":"String"}
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    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"}
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},
"ListInstancesResponse":{
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"type":"structure",
"members":{
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"NextToken":{"shape":"String"}
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    "SubscriptionStartDate":{"shape":"String"},
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  "required":[
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    "Product"
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    "Settings":{"shape":"Settings"}
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    "IdentityProvider":{"shape":"IdentityProvider"},
    "Product":{"shape":"String"},
    "Username":{"shape":"String"}
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    "IdentityProvider":{"shape":"IdentityProvider"},
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    "Username":{"shape":"String"}
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      "RemoveSubnets"
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      "RemoveSubnets":{"shape":"Subnets"},
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    }
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    "type":"structure",
    "members":{
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```


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{
"version":"2.0",
"metadata":{
"apiVersion":"2018-05-10",
"endpointPrefix":"license-manager-linux-subscriptions",
"jsonVersion":"1.1",
"protocol":"rest-json",
"protocols":["rest-json"],
"serviceFullName":"AWS License Manager Linux Subscriptions",
"serviceId":"License Manager Linux Subscriptions",
"signatureVersion":"v4",
"signingName":"license-manager-linux-subscriptions",
"uid":"license-manager-linux-subscriptions-2018-05-10",
"auth":["aws.auth#sigv4"]
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"operations":{
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    {"shape":"ThrottlingException"},
    {"shape":"ValidationException"}
  ],
  "idempotent":true
},
"GetServiceSettings":{
  "name":"GetServiceSettings",
  "http":{
    "method":"POST",
    "requestUri":"/subscription/GetServiceSettings",
    "responseCode":200
  },
  "input":{"shape":"GetServiceSettingsRequest"},
  "output":{"shape":"GetServiceSettingsResponse"},
   "errors":[
    {"shape":"InternalServerException"},
    {"shape":"ThrottlingException"},
    {"shape":"ValidationException"}
  ],
  "idempotent":true
},
"ListLinuxSubscriptionInstances":{
  "name":"ListLinuxSubscriptionInstances",
  "http":{
    "method":"POST",
    "requestUri":"/subscription/ListLinuxSubscriptionInstances",
    "responseCode":200
  },
  "input":{"shape":"ListLinuxSubscriptionInstancesRequest"},
  "output":{"shape":"ListLinuxSubscriptionInstancesResponse"},
  "errors":[
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    {"shape":"ThrottlingException"},
    {"shape":"ValidationException"}
  ],
  "idempotent":true
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"output":{"shape":"ListLinuxSubscriptionsResponse"},
"errors":[
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{"shape":"ValidationException"}
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"http":{
"method":"POST",
"requestUri":"/subscription/ListRegisteredSubscriptionProviders",
"responseCode":200
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"input":{"shape":"ListRegisteredSubscriptionProvidersRequest"},
"output":{"shape":"ListRegisteredSubscriptionProvidersResponse"},
"errors":[
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{"shape":"ThrottlingException"},
{"shape":"ValidationException"}
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"idempotent":true
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"ListTagsForResource":{
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"http":{
"method":"GET",
"requestUri":"/tags/{resourceArn}",
"responseCode":200
},
"input":{"shape":"ListTagsForResourceRequest"},
"output":{"shape":"ListTagsForResourceResponse"},
"errors":[
{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"},
{"shape":"ValidationException"}
]
},
"RegisterSubscriptionProvider":{
"name":"RegisterSubscriptionProvider",
"http":{

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    "method":"POST",
    "requestUri":"/subscription/RegisterSubscriptionProvider",
    "responseCode":200
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  "input":{"shape":"RegisterSubscriptionProviderRequest"},
  "output":{"shape":"RegisterSubscriptionProviderResponse"},
  "errors":[
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    {"shape":"ThrottlingException"},
    {"shape":"ValidationException"}
  ],
  "idempotent":true
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"TagResource":{
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  "http":{
    "method":"PUT",
    "requestUri":"/tags/{resourceArn}",
    "responseCode":200
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  "input":{"shape":"TagResourceRequest"},
  "output":{"shape":"TagResourceResponse"},
  "errors":[
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    {"shape":"ResourceNotFoundException"},
    {"shape":"ValidationException"}
  ],
  "idempotent":true
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"UntagResource":{
  "name":"UntagResource",
  "http":{
    "method":"DELETE",
    "requestUri":"/tags/{resourceArn}",
    "responseCode":200
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  "output":{"shape":"UntagResourceResponse"},
  "errors":[
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    {"shape":"ResourceNotFoundException"}
  ],
  "idempotent":true
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"UpdateServiceSettings":{
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  "http":{
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      "responseCode":200
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    "input":{"shape":"UpdateServiceSettingsRequest"},
    "output":{"shape":"UpdateServiceSettingsResponse"},
     "errors":[
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      {"shape":"ThrottlingException"},
      {"shape":"ValidationException"}
    ],
    "idempotent":true
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  "BoxInteger":{
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    "box":true
  },
  "BoxLong":{
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    "box":true
  },
  "DeregisterSubscriptionProviderRequest":{
    "type":"structure",
    "required":["SubscriptionProviderArn"],
    "members":{
      "SubscriptionProviderArn":{"shape":"SubscriptionProviderArn"}
    }
  },
  "DeregisterSubscriptionProviderResponse":{
    "type":"structure",
    "members":{
    }
  },
  "Filter":{
    "type":"structure",
    "members":{
      "Name":{"shape":"String"},
      "Operator":{"shape":"Operator"},
      "Values":{"shape":"StringList"}
    }
  },
  "FilterList":{
```

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  "type":"list",
  "member":{"shape":"Filter"}
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"GetRegisteredSubscriptionProviderRequest":{
  "type":"structure",
  "required":["SubscriptionProviderArn"],
  "members":{
    "SubscriptionProviderArn":{"shape":"SubscriptionProviderArn"}
  }
},
"GetRegisteredSubscriptionProviderResponse":{
  "type":"structure",
  "members":{
    "LastSuccessfulDataRetrievalTime":{"shape":"String"},
    "SecretArn":{"shape":"SecretArn"},
    "SubscriptionProviderArn":{"shape":"SubscriptionProviderArn"},
    "SubscriptionProviderSource":{"shape":"SubscriptionProviderSource"},
    "SubscriptionProviderStatus":{"shape":"SubscriptionProviderStatus"},
    "SubscriptionProviderStatusMessage":{"shape":"String"}
  }
},
"GetServiceSettingsRequest":{
  "type":"structure",
  "members":{
  }
},
"GetServiceSettingsResponse":{
  "type":"structure",
  "members":{
    "HomeRegions":{"shape":"StringList"},
    "LinuxSubscriptionsDiscovery":{"shape":"LinuxSubscriptionsDiscovery"},
     "LinuxSubscriptionsDiscoverySettings":{"shape":"LinuxSubscriptionsDiscoverySettings"},
    "Status":{"shape":"Status"},
    "StatusMessage":{"shape":"StringMap"}
  }
},
"Instance":{
  "type":"structure",
  "members":{
    "AccountID":{"shape":"String"},
    "AmiId":{"shape":"String"},
    "DualSubscription":{"shape":"String"},
    "InstanceID":{"shape":"String"},
    "InstanceType":{"shape":"String"},
    "LastUpdatedTime":{"shape":"String"},
    "OsVersion":{"shape":"String"},
    "ProductCode":{"shape":"ProductCodeList"},
    "Region":{"shape":"String"},
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"RegisteredWithSubscriptionProvider":{"shape":"String"},
"Status":{"shape":"String"},
"SubscriptionName":{"shape":"String"},
"SubscriptionProviderCreateTime":{"shape":"String"},
"SubscriptionProviderUpdateTime":{"shape":"String"},
"UsageOperation":{"shape":"String"}
}
},

"InstanceList":{
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"InternalServerException":{
"type":"structure",
"members":{
"message":{"shape":"String"}
},
"exception":true,
"fault":true
},
"LinuxSubscriptionsDiscovery":{
"type":"string",
"enum":[
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"Disabled"
]
},
"LinuxSubscriptionsDiscoverySettings":{
"type":"structure",
"required":[
"OrganizationIntegration",
"SourceRegions"
],
"members":{
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"SourceRegions":{"shape":"StringList"}
}
},
"ListLinuxSubscriptionInstancesRequest":{
"type":"structure",
"members":{
"Filters":{"shape":"FilterList"},
"MaxResults":{"shape":"BoxInteger"},
"NextToken":{"shape":"ListLinuxSubscriptionInstancesRequestNextTokenString"}
}
},
"ListLinuxSubscriptionInstancesRequestNextTokenString":{

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"ListLinuxSubscriptionInstancesResponse":{
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"members":{
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"NextToken":{"shape":"String"}
}
},
"ListLinuxSubscriptionsRequest":{
"type":"structure",
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"ListLinuxSubscriptionsResponse":{
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"members":{
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"Subscriptions":{"shape":"SubscriptionList"}
}
},
"ListRegisteredSubscriptionProvidersRequest":{
"type":"structure",
"members":{
"MaxResults":{"shape":"ListRegisteredSubscriptionProvidersRequestMaxResultsInteger"},
"NextToken":{"shape":"String"},
"SubscriptionProviderSources":{"shape":"SubscriptionProviderSourceList"}
}
},
"ListRegisteredSubscriptionProvidersRequestMaxResultsInteger":{
"type":"integer",
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"max":100,
"min":1
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"ListRegisteredSubscriptionProvidersResponse":{
"type":"structure",
"members":{

"NextToken":{"shape":"String"},
"RegisteredSubscriptionProviders":{"shape":"RegisteredSubscriptionProviderList"}
}
},
"ListTagsForResourceRequest":{
"type":"structure",
"required":["resourceArn"],
"members":{
"resourceArn":{
"shape":"SubscriptionProviderArn",
"location":"uri",
"locationName":"resourceArn"
}
}
},
"ListTagsForResourceResponse":{
"type":"structure",
"members":{
"tags":{"shape":"Tags"}
}
},
"Operator":{
"type":"string",
"enum":[
"Equal",
"NotEqual",
"Contains"
],
"max":20,
"min":1
},
"OrganizationIntegration":{
"type":"string",
"enum":[
"Enabled",
"Disabled"
]
},
"ProductCodeList":{
"type":"list",
"member":{"shape":"String"}
},
"RegisterSubscriptionProviderRequest":{
"type":"structure",
"required":[
"SecretArn",
"SubscriptionProviderSource"
],

```
  "members":{
    "SecretArn":{"shape":"SecretArn"},
    "SubscriptionProviderSource":{"shape":"SubscriptionProviderSource"},
    "Tags":{"shape":"Tags"}
  }
},
"RegisterSubscriptionProviderResponse":{
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  "members":{
    "SubscriptionProviderArn":{"shape":"String"},
    "SubscriptionProviderSource":{"shape":"SubscriptionProviderSource"},
    "SubscriptionProviderStatus":{"shape":"SubscriptionProviderStatus"}
  }
},
"RegisteredSubscriptionProvider":{
   "type":"structure",
  "members":{
    "LastSuccessfulDataRetrievalTime":{"shape":"String"},
    "SecretArn":{"shape":"SecretArn"},
    "SubscriptionProviderArn":{"shape":"SubscriptionProviderArn"},
    "SubscriptionProviderSource":{"shape":"SubscriptionProviderSource"},
    "SubscriptionProviderStatus":{"shape":"SubscriptionProviderStatus"},
    "SubscriptionProviderStatusMessage":{"shape":"String"}
  }
},
"RegisteredSubscriptionProviderList":{
  "type":"list",
  "member":{"shape":"RegisteredSubscriptionProvider"}
},
"ResourceNotFoundException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "exception":true
},
"SecretArn":{
  "type":"string",
  "pattern":"^arn:[a-z0-9-\\.]{1,63}:secretsmanager:[a-z0-9-\\.]{0,63}:[a-z0-9-\\.]{0,63}:secret:[^/]{1,1023}$"
},
"Status":{
  "type":"string",
  "enum":[
    "InProgress",

"Completed",
    "Successful",
    "Failed"
```

```
    ]
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  "String":{"type":"string"},
  "StringList":{
    "type":"list",
    "member":{"shape":"StringListMemberString"},
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    "min":1
  },
  "StringListMemberString":{
    "type":"string",
    "max":100,
    "min":1
  },
  "StringMap":{
    "type":"map",
    "key":{"shape":"String"},
    "value":{"shape":"String"}
  },
  "Subscription":{
    "type":"structure",
    "members":{
      "InstanceCount":{"shape":"BoxLong"},
      "Name":{"shape":"String"},
      "Type":{"shape":"String"}
    }
  },
  "SubscriptionList":{
    "type":"list",
    "member":{"shape":"Subscription"}
  },
  "SubscriptionProviderArn":{
    "type":"string",
    "pattern":"^arn:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,510}/[a-z0-9-\\.]{1,510}$"
  },
  "SubscriptionProviderSource":{
    "type":"string",
    "enum":["RedHat"]
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  "SubscriptionProviderSourceList":{
    "type":"list",
    "member":{"shape":"SubscriptionProviderSource"}
  },
  "SubscriptionProviderStatus":{
    "type":"string",
    "enum":[
      "ACTIVE",
```

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    "INVALID",
    "PENDING"
  ]
},
"TagKeyList":{
  "type":"list",
  "member":{"shape":"String"},
  "max":50,
  "min":0,
  "sensitive":true
},
"TagResourceRequest":{
  "type":"structure",
  "required":[
    "resourceArn",
    "tags"
  ],
  "members":{
    "resourceArn":{
      "shape":"SubscriptionProviderArn",
      "location":"uri",
      "locationName":"resourceArn"
    },
    "tags":{"shape":"Tags"}
  }
},
"TagResourceResponse":{
  "type":"structure",
  "members":{
  }
},
"Tags":{
  "type":"map",
  "key":{"shape":"String"},
  "value":{"shape":"String"},
  "max":50,
  "min":0,
  "sensitive":true
},
"ThrottlingException":{
   "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "exception":true
},
"UntagResourceRequest":{
  "type":"structure",
```

```
  "required":[
    "resourceArn",
    "tagKeys"
  ],
  "members":{
    "resourceArn":{
      "shape":"SubscriptionProviderArn",
      "location":"uri",
      "locationName":"resourceArn"
    },
    "tagKeys":{
      "shape":"TagKeyList",
      "location":"querystring",
      "locationName":"tagKeys"
    }
  }
},
"UntagResourceResponse":{
  "type":"structure",
  "members":{
  }
},
"UpdateServiceSettingsRequest":{
  "type":"structure",
  "required":[
    "LinuxSubscriptionsDiscovery",
    "LinuxSubscriptionsDiscoverySettings"
  ],
  "members":{
    "AllowUpdate":{"shape":"Boolean"},
    "LinuxSubscriptionsDiscovery":{"shape":"LinuxSubscriptionsDiscovery"},
    "LinuxSubscriptionsDiscoverySettings":{"shape":"LinuxSubscriptionsDiscoverySettings"}
   }
},
"UpdateServiceSettingsResponse":{
  "type":"structure",
  "members":{
    "HomeRegions":{"shape":"StringList"},
    "LinuxSubscriptionsDiscovery":{"shape":"LinuxSubscriptionsDiscovery"},
    "LinuxSubscriptionsDiscoverySettings":{"shape":"LinuxSubscriptionsDiscoverySettings"},
    "Status":{"shape":"Status"},
    "StatusMessage":{"shape":"StringMap"}
  }
},
"ValidationException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
```

```
    },
    "exception":true
  }
 }
}
{
 "pagination": {
 }
}
{
  "version": "1.0",
  "parameters": {
    "Region": {
      "builtIn": "AWS::Region",
      "required": false,
      "documentation": "The AWS region used to dispatch the request.",
      "type": "String"
    },
    "UseDualStack": {
      "builtIn": "AWS::UseDualStack",
      "required": true,
      "default": false,
      "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
      "type": "Boolean"
    },
    "UseFIPS": {
      "builtIn": "AWS::UseFIPS",
      "required": true,
      "default": false,
      "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
      "type": "Boolean"
    },
    "Endpoint": {

    "builtIn": "SDK::Endpoint",
      "required": false,
      "documentation": "Override the endpoint used to send this request",
      "type": "String"
    }
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  "rules": [
    {
      "conditions": [
        {
          "fn": "isSet",
          "argv": [
```

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                    "ref": "Endpoint"
                }
            ]
        }
    ],
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    "rules": [
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            "conditions": [
                {
                    "fn": "booleanEquals",
                    "argv": [
                        {
                            "ref": "UseFIPS"
                        },
                        true
                    ]
                }
            ],
            "error": "Invalid Configuration: FIPS and custom
endpoint are not supported",
            "type": "error"
        },
        {
            "conditions": [],
            "type": "tree",
            "rules": [
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                    "conditions": [
                        {
                            "fn": "booleanEquals",
                            "argv": [
                                {
                                    "ref": "UseDualStack"
                                },
                                true
                            ]
                        }
                    ],
                    "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                    "type": "error"
                },
                {
                    "conditions": [],

  "endpoint": {
                        "url": {
```

```
                "ref": "Endpoint"
            },
            "properties": {},
            "headers": {}
        },
        "type": "endpoint"
    }
  ]
}
]
},
{
  "conditions": [],
  "type": "tree",
  "rules": [
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      "conditions": [
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          "fn": "isSet",
          "argv": [
            {
              "ref": "Region"
            }
          ]
        }
      ],
      "type": "tree",
      "rules": [
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              "fn": "aws.partition",
              "argv": [
                {
                  "ref": "Region"
                }
              ],
              "assign": "PartitionResult"
            }
          ],
          "type": "tree",
          "rules": [
            {
              "conditions": [
                {
                  "fn": "booleanEquals",
                  "argv": [
                    {
```

```
                "ref": "UseFIPS"
            },

true
        ]
    },
    {
        "fn": "booleanEquals",
        "argv": [
            {
                "ref": "UseDualStack"
            },
            true
        ]
    }
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                "argv": [
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                    {
                        "fn": "getAttr",
                        "argv": [
                            {
                                "ref": "PartitionResult"
                            },
                            "supportsFIPS"
                        ]
                    }
                ]
            },
            {
                "fn": "booleanEquals",
                "argv": [

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                    {
                        "fn": "getAttr",
                        "argv": [
                            {
                                "ref": "PartitionResult"
                            },
                            "supportsDualStack"
                        ]
```

```
                    }
                ]
            }
        ],
        "type": "tree",
        "rules": [
            {

                "conditions": [],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [],
                        "endpoint": {
                            "url": "https://license-manager-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                            "properties": {},
                            "headers": {}
                        },
                        "type": "endpoint"
                    }
                ]

    }
        ]
    },
    {
        "conditions": [],
        "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
        "type": "error"
    }
  ]
},
{
  "conditions": [
    {
        "fn": "booleanEquals",
        "argv": [
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                "ref": "UseFIPS"
            },
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    }
  ],
  "type": "tree",
```

```
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                                        "fn": "getAttr",
                                        "argv": [
                                            {
                                                "ref": "PartitionResult"

},
                                            "supportsFIPS"
                                        ]
                                    }
                                ]
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                        "rules": [
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                                "conditions": [],
                                "type": "tree",
                                "rules": [
                                    {
                                        "conditions": [],
                                        "endpoint": {
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"https://license-manager-fips.{Region}.{PartitionResult#dnsSuffix}",
                                            "properties": {},
                                            "headers": {}
                                        },
                                        "type": "endpoint"
                                    }
                                ]
                            }
                        ]
                    },
                    {
                        "conditions": [],
                        "error": "FIPS is enabled but this partition does not support FIPS",
                        "type": "error"
                    }
                ]
```

```
},
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
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"ref": "UseDualStack"
},
true
]
}
],
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"rules": [
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{
"fn": "booleanEquals",
"argv":
[
true,
{
"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},
"supportsDualStack"
]
}
]
}
],
"type": "tree",
"rules": [

{
"conditions": [],
"type": "tree",
"rules": [
{
"conditions": [],
"endpoint": {
"url": "https://license-
manager.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},
"headers": {}
```

```
                                    },
                                    "type": "endpoint"
                                }
                            ]

                        }
                            ]
                        },
                        {
                            "conditions": [],
                            "error": "DualStack is enabled but this partition does not support DualStack",
                            "type": "error"
                        }
                    ]
                },
                {
                    "conditions": [],
                    "type": "tree",
                    "rules": [
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                            "conditions": [],
                            "endpoint": {
                                "url": "https://license-manager.{Region}.{PartitionResult#dnsSuffix}",
                                 "properties": {},
                                "headers": {}
                            },
                            "type": "endpoint"
                        }
                    ]
                }
            ]
        }
    ]
},
{
    "conditions": [],
    "error": "Invalid Configuration: Missing Region",
    "type": "error"
}
]
}
]
}
{
  "testCases": [
    {
      "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
      "expect": {
```

```
            "endpoint": {
                "url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
            }
        },
        "params": {
            "Region": "us-east-1",
            "UseFIPS": true,
            "UseDualStack": true
        }
    },
    {
        "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
            }
        },
        "params": {
            "Region": "us-east-1",
            "UseFIPS": true,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region us-east-1 with FIPS disabled and
DualStack enabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
            }
        },
        "params": {
            "Region": "us-east-1",
            "UseFIPS": false,
            "UseDualStack": true
        }
    },
    {
        "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
            }
        },
        "params": {
            "Region": "us-east-1",
            "UseFIPS": false,
            "UseDualStack": false
```

```
    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
      }
    },
    "params": {
      "Region": "cn-north-1",
      "UseFIPS": true,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
      }
    },
    "params": {
      "Region": "cn-north-1",
      "UseFIPS": true,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
      }
    },
    "params": {
      "Region": "cn-north-1",
      "UseFIPS": false,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
      }
    },
```

```
    "params": {
      "Region": "cn-north-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
      }
    },
    "params": {
      "Region": "us-gov-east-1",
       "UseFIPS": true,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.amazonaws.com"
      }
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    "params": {
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        "endpoint": {
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    }
},
{
    "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
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    "params": {
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        "UseDualStack": true
    }
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        "UseFIPS": true,
        "UseDualStack": false
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},
{
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        "Region": "us-isob-east-1",
        "UseFIPS": true,
        "UseDualStack": false
    }
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{
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"endpoint": {
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"Region": "us-isob-east-1",
"UseFIPS": false,
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"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
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}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
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"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
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}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
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"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,

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            "Endpoint": "https://example.com"
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          },
          "params": {
            "Region": "us-east-1",
            "UseFIPS": false,
            "UseDualStack": true,
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          }
        },
        {
          "documentation": "Missing region",
          "expect": {
            "error": "Invalid Configuration: Missing Region"
          }
        }
      ],
      "version": "1.0"
    }
```


1.4677 go.opentelemetry.io/proto/otlp 1.3.1

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1.4680 kerberos 1.21.3

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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c

lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mgluеP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
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1.4684 rimraf 5.0.10

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1.4689 qs 6.13.0

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1.4690 go-compute-metadata 0.5.0

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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
```

```
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
```

```
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()
```

```
 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp

  // If you need to access the underlying RPC response,
  // you can do so by casting the `Response` as below.
```

```
 // Otherwise, remove this line. Only populated after
 // first call to Next(). Not safe for concurrent access.
 _ = it.Response.(*computepb.LicensesListResponse)
 }
}

func
 ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
```

```
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()
```

```
 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
```

```
err := c.TestIamPermissions(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
```

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// versions:
//  protoc-gen-go v1.34.2
//  protoc        v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
```

```
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
```

```
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":            1,
  "WRITER":           2,
  "READER":           3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}
```

```
func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
```

```
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Permission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 if protoimpl.UnsafeEnabled {
  mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission)
 ProtoReflect() protoreflect.Message {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
```

```
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role
 != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
 0x19, 0x67, 0x6f,
 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
 0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
```

0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
0x0b, 0x67,
0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
0x64,
0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,

```
 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
 = []any{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func
 file_google_ai_generativelanguage_v1beta_permission_proto_init() {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 if !protoimpl.UnsafeEnabled {
  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v any, i int) any {
   switch v := v.(*Permission); i {
   case 0:
```

```
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
 }
file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
type x struct{}
out := protoimpl.TypeBuilder{
 File: protoimpl.DescBuilder{
  GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
  RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
  NumEnums:      2,
  NumMessages:   1,
  NumExtensions: 0,
  NumServices:   0,
 },
 GoTypes:          file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
 DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
 EnumInfos:
        file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
 MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1beta_permission_proto = out.File
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
// Copyright 2024 Google LLC
//
// Licensed under the Apache License, Version 2.0 (the "License");
// you may not use this file except in compliance with the License.
// You may obtain a copy of the License at
//
//     https://www.apache.org/licenses/LICENSE-2.0
//
// Unless required by applicable law or agreed to in writing, software
// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
// See the License for the specific language governing permissions and
// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.
```

```
package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
```

```
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 GetIamPolicy:
[]gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
  gax.WithRetry(func() gax.Retryer {
   return gax.OnHTTPCodes(gax.Backoff{
    Initial:    100 * time.Millisecond,
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 Insert: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 List: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
  gax.WithRetry(func() gax.Retryer {
   return gax.OnHTTPCodes(gax.Backoff{
    Initial:    100 * time.Millisecond,
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 SetIamPolicy: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 TestIamPermissions: []gax.CallOption{
  gax.WithTimeout(600000
* time.Millisecond),
 },
}
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
```

```
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
```

```
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
 for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
 list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
```

```
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use
 only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()
```

```
 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient
 = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
```

```
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params",
 fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "license",
url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers
```

```
 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf,
err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()),
```

```
 "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err
 := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
```

Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and
 context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp);
```

```
err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId",
 fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}
```

```
hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err !=
nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
```

```
 },
 }
 return op, nil
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *licensesRESTClient)
 List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

  params := url.Values{}
  if req != nil && req.Filter != nil {
   params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
  }
  if req != nil && req.MaxResults != nil {
   params.Add("maxResults",
fmt.Sprintf("%v", req.GetMaxResults()))
  }
  if req != nil && req.OrderBy != nil {
   params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
  }
  if req != nil && req.PageToken != nil {
   params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
  }
  if req != nil && req.ReturnPartialSuccess != nil {
   params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
  }
```

```
 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := append(c.xGoogHeaders, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return
err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
```

```
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only
 by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
```

```
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on
 the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
```

```
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type",
 "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }
```

```
 return
 nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
```

1.4691 go-auth-oauth2adapt 0.2.3

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package compute_test

import (
 "context"
```

```
 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
```

```
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
```

```
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
```

```
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp

  // If you need to access the underlying RPC response,
  // you can do so by casting the `Response` as below.
  // Otherwise, remove this line. Only populated after
  // first call to Next(). Not safe for concurrent access.
  _ = it.Response.(*computepb.LicensesListResponse)
 }
}

func
 ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
```

```
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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package compute_test
```

```
import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
```

```
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
// protoc-gen-go v1.34.2
// protoc   v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

```
import (
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)
```

```
func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
```

```
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":           1,
  "WRITER":          2,
  "READER":          3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
```

```
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 if protoimpl.UnsafeEnabled {
  mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}
```

```
func (*Permission) ProtoMessage() {}

func (x *Permission)
 ProtoReflect() protoreflect.Message {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role
 != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}
```

```
var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
 0x19, 0x67, 0x6f,
 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
 0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
 0x0b, 0x67,
 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
 0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
 0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
 0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
```

```
 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
 0x64,
 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
 0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
 0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
 = []any{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
```

```
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func
 file_google_ai_generativelanguage_v1beta_permission_proto_init() {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 if !protoimpl.UnsafeEnabled {
  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v any, i int) any {
   switch v := v.(*Permission); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
  GoTypes:          file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
  DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
  EnumInfos:
         file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
  MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
 }.Build()
```

```
 File_google_ai_generativelanguage_v1beta_permission_proto = out.File
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
// Copyright 2024 Google LLC
//
// Licensed under the Apache License, Version 2.0 (the "License");
// you may not use this file except in compliance with the License.
// You may obtain a copy of the License at
//
//     https://www.apache.org/licenses/LICENSE-2.0
//
// Unless required by applicable law or agreed to in writing, software
// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
// See the License for the specific language governing permissions and
// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook
```

```
// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy:
 []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  Insert: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  List: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
```

```
    Initial:    100 * time.Millisecond,
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 SetIamPolicy: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 TestIamPermissions: []gax.CallOption{
  gax.WithTimeout(600000
* time.Millisecond),
 },
}
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}
```

```
// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
 for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by
third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
```

party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use
 only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient

```
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
}

//
```

```
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient
 = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
```

```
hds := []string{"x-goog-request-params",
fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "license",
url.QueryEscape(req.GetLicense()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf,
err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
```

```
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()),
 "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
```

```
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err
 := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and
 context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
```

```
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp);
 err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
```

```
jsonReq, err := m.Marshal(body)
if err != nil {
 return nil, err
}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.RequestId != nil {
 params.Add("requestId",
fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err !=
nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
```

```
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient)
 List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
```

```
 return nil, "", err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.Filter != nil {
 params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
}
if req != nil && req.MaxResults != nil {
 params.Add("maxResults",
fmt.Sprintf("%v", req.GetMaxResults()))
}
if req != nil && req.OrderBy != nil {
 params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
 params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
}
if req != nil && req.ReturnPartialSuccess != nil {
 params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := append(c.xGoogHeaders, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return
err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }
```

```
  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only
 by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
```

```
 return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
```

```
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on
 the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type",
 "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
```

```
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return
 nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
```

1.4692 google-api-go-client 0.189.0

1.4692.1 Available under license :

```
# This is the official list of people who can contribute
# (and typically have contributed) code to the repository.
# The AUTHORS file lists the copyright holders; this file
# lists people.  For example, Google employees are listed here
# but not in AUTHORS, because Google holds the copyright.
#
# The submission process automatically checks to make sure
# that people submitting code are listed in this file (by email address).
#
# Names should be added to this file only after verifying that
# the individual or the individual's organization has agreed to
# the appropriate Contributor License Agreement, found here:
#
```

```
#     https://cla.developers.google.com/about/google-individual
#     https://cla.developers.google.com/about/google-corporate
#
# The CLA can be filled out on the web:
#
#     https://cla.developers.google.com/
#
# When adding J Random Contributor's name to this file,
# either J's name or J's organization's name should be
# added to the AUTHORS file, depending on whether the
#
 individual or corporate CLA was used.

# Names should be added to this file like so:
#     Name <email address>
#
# An entry with two email addresses specifies that the
# first address should be used in the submit logs and
# that the second address should be recognized as the
# same person when interacting with Rietveld.

# Please keep the list sorted.

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1.4700 jaraco-context 5.3.0

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1.4702 jaraco-text 3.12.1

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1.4703 libsodium 1.0.18-1build3

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1.4704 xorg 7.7+23ubuntu3

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1.4705 fakeroot 1.33-1

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1.4706 libglvnd 1.7.0-1build1

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Vixie Cron V3.0
December 27, 1993
[V2.2 was some time in 1992]
[V2.1 was May 29, 1991]
[V2.0 was July 5, 1990]
[V2.0-beta
was December 9, 1988]
[V1.0 was May 6, 1987]
Paul Vixie

This is a version of 'cron' that is known to run on BSD 4.[23] systems. It

is functionally based on the SysV cron, which means that each user can have
their own crontab file (all crontab files are stored in a read-protected
directory, usually /var/cron/tabs). No direct support is provided for
'at'; you can continue to run 'atrun' from the crontab as you have been
doing. If you don't have atrun (i.e., System V) you are in trouble.

A messages is logged each time a command is executed; also, the files
"allow" and "deny" in /var/cron can be used to control access to the
"crontab" command (which installs crontabs). It hasn't been tested on
SysV, although some effort has gone into making the port an easy one.

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please, don't flame me for wanting my work to see a wider distribution.

To use this: Sorry, folks, there is no cutesy 'Configure' script. You'll
have to go edit a couple of files... So, here's the checklist:

```
 Read all the FEATURES, INSTALL, and CONVERSION files
 Edit config.h
 Edit Makefile
  (both of these files have instructions inside; note that
   some things in config.h are definable in Makefile and are
   therefore surrounded by #ifndef...#endif)
 'make'
 'su' and 'make install'
  (you may have to install the man pages by hand)
 kill your existing cron process
  (actually you can run your existing cron if you want, but why?)
 build new crontabs using /usr/lib/{crontab,crontab.local}
  (either put them all in "root"'s crontab, or divide it up
   and rip out all the 'su' commands, collapse the lengthy
   lists into
 ranges with steps -- basically, this step is
   as much work as you want to make it)
 start up the new cron
  (must be done as root)
 watch it. test it with 'crontab -r' and watch the daemon track your
  changes.
 if you like it, change your /etc/{rc,rc.local} to use it instead of
  the old one.
```

$Id: README,v 2.3 1993/12/28 08:34:43 vixie Exp $

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*
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* /opt/cola/permits/2134359468_1722972136.795163/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/misc.c
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*/
```

$Id: INSTALL,v 2.5 1994/01/15 20:43:43 vixie Exp $

Read the comments at the top of the Makefile, then edit the area marked
'configurable
 stuff'.

Edit config.h. The stuff I expect you to change is down a bit from the
top of the file, but it's clearly marked. Also look at pathnames.h.

You don't have to create the /var/cron or /var/cron/tabs directories, since
both the daemon and the `crontab' program will do this the first time they
run if they don't exist. You do need to have a /var, though -- just "mkdir
/var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var"
if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you
change the Makefile. These will have to be created by hand, but if you are
a long-time Usenet user you probably have them already. /usr/local/man is
where I keep my man pages, but I have the source for `man' and you probably
do not. Therefore you may have to put the man pages into /usr/man/manl,
which will be hard since there will be name collisions. (Note that the man
command was originally written by
 Bill Joy before he left Berkeley, and it
contains no AT&T code, so it is in UUNET's archive of freely-distributable
BSD code.)

LINUX note: /usr/include/paths.h on some linux systems shows _PATH_SENDMAIL
 to be /usr/bin/sendmail even though sendmail is installed in /usr/lib.
 you should check this out.

say:
 make all

su and say:
 make install

Note that if I can get you to "su and say" something just by asking, you have
a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file

for help on this.

Use the `crontab' command to install all the little pieces you just created.
Some examples (see below before trying any of these!)

```
 crontab -u uucp -r /usr/lib/uucp/crontab.src
 crontab -u news -r /usr/lib/news/crontab.src
 crontab -u root -r /usr/adm/crontab.src
```

Notes on above examples: (1) the .src files are copied at the time the
command is issued; changing the source files later will have
 no effect until
they are reinstalled with another `crontab -r' command. (2) The crontab
command will affect the crontab of the person using the command unless `-u
USER' is given; `-u' only works for root.  When using most `su' commands
under most BSD's, `crontab' will still think of you as yourself even though
you may think of yourself as root -- so use `-u' liberally.  (3) the `-r'
option stands for `replace'; check the man page for crontab(1) for other
possibilities.

Kill your existing cron daemon -- do `ps aux' and look for /etc/cron.

Edit your /etc/rc or /etc/rc.local, looking for the line that starts up
/etc/cron. Comment it out and add a line to start the new cron daemon
-- usually /usr/local/etc/cron, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type /usr/local/etc/cron
(or whatever); no '&' is needed since the daemon forks itself and the
process you executed returns immediately.

ATT notes: for those people unfortunate enough to
 be stuck on a AT&T UNIX,
you will need the public-domain "libndir", found in the B News source and in
any comp.sources.unix archive. You will also need to hack the code some.

Found in path(s):
* /opt/cola/permits/2134359468_1722972136.795163/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/INSTALL
No license file was found, but licenses were detected in source scan.

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* Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul
*/

Found in path(s):
* /opt/cola/permits/2134359468_1722972136.795163/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/compat.h
* /opt/cola/permits/2134359468_1722972136.795163/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/externs.h
*
 /opt/cola/permits/2134359468_1722972136.795163/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/pathnames.h
No license file was found, but licenses were detected in source scan.

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*
* @(#)bitstring.h 5.2
 (Berkeley) 4/4/90
*/

Found in path(s):
* /opt/cola/permits/2134359468_1722972136.795163/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/bitstring.h

1.4708 efivar 38-3.1build1

1.4708.1 Available under license :

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Version 2.1, February 1999

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Ty Coon, President of Vice

That's all there is to it!

1.4709 sudo 1.9.15p5-3ubuntu5

1.4709.1 Available under license :

The following list of people, sorted by last name, have contributed
code or patches to this implementation of sudo since I began
maintaining it in 1993. This list is known to be incomplete--if

you believe you should be listed, send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bos, Sander
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
Cheloha, Scott
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon,
Ariel
Farrell, Brian
Fobes, Steve
Frysinger, Mike
G., Daniel Richard

Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, Yoshifuji
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irrgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jindrk, Jaroslav
Jepeway, Chris
Jorge, Joel Pele
Jover, Guillem
Juhani, Timo
Kikuchi, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Mallayya,

Sangamesh
Manner, Rbert
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Mller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Orbn, Lszl
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Pasteleurs, Frederic
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
Sato, Yuichi
Snchez, Wilfredo
Sanders, Miguel
Sasaki, Kan
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno

Schwarze, Ingo
Scott,
Dougal
Shand, Will
Sieger, Nick
Simon, Thor Lancelot
Skoll, Dianne
Slemko, Marc
Smith, Andy
Sobrado, Igor
Soulen, Steven
Spangler, Aaron
Spradling, Cloyce D.
Spradling, Michael
Stier, Matthew
Stoeckmann, Tobias
Street, Russell
Stritzky, Tilo
Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
Todd, Giles
Toft, Martin
Torek, Chris
Tucker, Darren
Uhl, Robert
Uzel, Petr
Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages as part of the Translation Project, see https://translationproject.org for more details.

Albuquerque, Pedro

Blttermann, Mario
Bogusz, Jakub
Buo-ren, Lin

Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Doghonadze, Temuri
Fontenelle, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frdric
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Keeci, Mehmet
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krznar, Tomislav
Marchal, Frdric
Margeviius, Algimantas
Maryanov, Pavel
Florentina Muat
Nurmi, Lauri
Nikoli, Miroslav
Nylander, Daniel
Pan, Yi-Jyun
Psa, Petr
Puente, Enol
Putanec, Boidar
Qun, Trn Ngc
Rasmussen, Sebastian
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<signature of Ty Coon>, 1 April 1990
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1.4713 free-type 2.13.2+dfsg-1build3

1.4713.1 Available under license :

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```
/*
* This is an OpenSSL-compatible implementation of the RSA Data Security, Inc.
* MD5 Message-Digest Algorithm (RFC 1321).
*
* Homepage:
* http://openwall.info/wiki/people/solar/software/public-domain-source-code/md5
*
* Author:
* Alexander Peslyak, better known as Solar Designer <solar at openwall.com>
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 *
* This differs from Colin Plumb's older public domain implementation in that
* no exactly 32-bit integer data type is required (any 32-bit or wider
* unsigned integer data type will do), there's no compile-time endianness
* configuration, and the function prototypes match OpenSSL's.  No code from
* Colin Plumb's implementation has been reused; this comment merely compares
* the properties of the two independent implementations.
*
* The primary goals of this implementation are portability and ease of use.
* It is meant to be fast, but not as fast as possible.  Some known
* optimizations are not included to reduce source code size and avoid
* compile-time configuration.
```

```
*/
```

Found in path(s):
* /opt/cola/permits/2134360434_1727421213.699977/0/freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/src/md5.c
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```
/*
*  This is a cheap replacement for getopt() because that routine is not
*  available on some platforms and behaves differently on other platforms.
*  This code was written from scratch without looking at any other
*  implementation.
*
*  This code is hereby expressly placed in the public domain.
*  mleisher@crl.nmsu.edu (Mark Leisher)
*  10 October 1997
*
*  Last update 2019-06-10.
*/
```

Found in path(s):
* /opt/cola/permits/2134360434_1727421213.699977/0/freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/src/mlgetopt.c
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```
/*********************************************************************
*
*  grwin32.h  graphics driver for Win32 platform (header)
*
*  This is the driver for displaying inside a window under Win32,
*  used by the graphics utility of the FreeType test suite.
*
*  Written by Antoine Leca.
*  Copyright (C) 1999-2023 by
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*
*  Borrowing liberally from the other FreeType drivers.
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*  understand and accept it fully.
*
*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/2134360434_1727421213.699977/0/freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-

2.13.2/graph/win32/grwin32.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************
*
*  grx11.c  graphics driver for X11.
*
*  This is the driver for displaying inside a window under X11,
*  used by the graphics utility of the FreeType test suite.
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*  understand and accept it fully.
*
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/2134360434_1727421213.699977/0/freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/graph/x11/grx11.c
No license file was found, but licenses were detected in source scan.

```
/*  Author:  David Turner  <david@freetype.org>
*
*  this filtering code is explicitly placed in the public domain !!
*/
```

Found in path(s):
* /opt/cola/permits/2134360434_1727421213.699977/0/freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/graph/grswizzle.c
No license file was found, but licenses were detected in source scan.

<p>License:

Found in path(s):
* /opt/cola/permits/2134360434_1727421213.699977/0/freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/src/ftinspect/maingui.cpp
No license file was found, but licenses were detected in source scan.

2023-08-25 Werner Lemberg <wl@gnu.org>

 * Version 2.13.2 released.
 ==========

Tag sources with 'VER-2-13-2'.

* README: Updated.
* meson.build: Updated.
* man/*.1: Updated.

2023-08-25 Werner Lemberg <wl@gnu.org>

Fix clang warnings.

* graph/gblblit.c (gblender_glyph_upgray), src/ftmulti.c (Render_All): Add
  cast.
* src/ftdump.c (get_english_name_entry): Initialize `name`.

2023-08-24 Werner Lemberg <wl@gnu.org>

* subprojects/*.wrap: Updated.

2023-08-17 Hugh McMaster <hugh.mcmaster@outlook.com>

ftlint.1: Instruct man(1) to run the groff `tbl` preprocessor

The latest version of groff (1.23.0) emits a warning when it detects the
use of table macros (.TS, .TE) with no .TW (table width) macro defined:

  tbl preprocessor failed, or it or soelim was not run; table(s) likely
  not rendered (TE macro called with TW register undefined).

The warning occurs because the `tbl` preprocessor
was not invoked by
the `man` command. To fix the issue, we need to instruct man(1) to
run the `tbl` preprocessor before rendering the source as text.

This issue was detected by Debian's Lintian tool.

2023-08-13 Hugh McMaster <hmc@debian.org>

* src/ftmulti.c: Miscellaneous spelling and readability fixes.

  * Update comments.
  * Fix a typo: dimentions -> dimensions.

2023-08-06 Charlie Jiang <w@chariri.moe>

[ftinspect] Fix default named instance handling.

Now the named instance selector no longer doubles the default named instance.
`FT_Get_Default_Named_Instance` is used to get the default NI index.

The default one is labeled as " (default)".

* src/ftinspect/widgets/tripletselector.cpp: Properly handle the new 1-based
  named instance indices. Label the default NI correctly.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
  Add `Engine::defualtNamedInstanceIndex`.

* src/ftinspect/engine/mmgx.cpp: Change comments.

2023-08-06 Charlie
Jiang <w@chariri.moe>

[ftinspect] Fix named instances switching.

* src/ftinspect/engine/mmgx.cpp, src/ftinspect/engine/mmgx.hpp:
  Load the default values of MMGX axes from the named instance instead of
  the global default one.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
  Switch the named instance using `FT_Set_Named_Instance` when loading
  fonts.

2023-07-28 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftbench.c (usage): Document the `-a` option.

2023-07-26 Charlie Jiang <w@chariri.moe>

[ftinspect] Fix the glyph index selector layout when the window resizes.

Fixes #26. When the window resizes, the invisible tabs don't get notified.
Therefore, when the active tab changes, we need to trigger a manual
relayouting of invisible tabs.

* src/ftinspect/widgets/glyphindexselector.hpp,
  src/ftinspect/widgets/glyphindexselector.cpp:
  Extract public method `relayoutNavigation` from `resizeEvent`.

* src/ftinspect/panels/abstracttab.hpp:
Add `relayout` virtual method.

* src/ftinspect/maingui.cpp: Call `AbstractTab::relayout` on the new tab
  when the active tab changes.

* src/ftinspect/panels/singular.cpp, src/ftinspect/panels/singular.hpp,
  src/ftinspect/panels/continuous.cpp, src/ftinspect/panels/continuous.hpp:
  Implement `relayout` method and call `relayoutNavigation` of the glyph

index selector in `relayout`.

2023-07-26 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftdump.c (Print_MM_Info): Fix signedness mismatch.

2023-07-21 Jouk Jansen <joukj@hrem.nano.tudelft.nl>

* vms_make.com: Synchronize with similar changes in the FreeType library.

2023-07-16 Hin-Tak Leung <htl10@users.sourceforge.net>

src/rsvg-port.c: Correct usage of `FT_Bool` vs `gboolean` comparison.

`TRUE` in this context is from glib headers (`glib-2.0/glib/gmacros.h`), imported indirectly from rsvg headers. It should not be used for comparison with `FT_Bool` types. Other usages of `TRUE/FALSE` in this file is okay.

2023-07-08 Hin-Tak Leung <htl10@users.sourceforge.net>

rsvg-port.c: Simplify usage of `rsvg_handle_render_*`.

* src/rsvg-port.c (rsvg_port_preset_slot): Remove usage of `rsvg_handle_render_document` (and `rsvg_handle_render_cairo`). They are functionally the same as `rsvg_handle_render_layer` (and `rsvg_handle_render_cairo_sub`) with argument id set to NULL.

2023-07-08 Hin-Tak Leung <htl10@users.sourceforge.net>

* src/ttdebug.c (RunIns): Signature fix.

A somewhat similar change to what happened in the FreeType library:

```
commit 95d635eab1b08a0051de07b6c33067d2c1984848
Author: Werner Lemberg <wl@gnu.org>
Date:   Sun May 7 08:34:32 2023 +0200

    [truetype] Signature fixes.
```

2023-06-24 Werner Lemberg <wl@gnu.org>

* Version 2.13.1 released.
==========

Tag sources with 'VER-2-13-1'.

* README: Updated.

```
* meson.build: Updated.
* man/*.1: Updated.
* subprojects/zlib.wrap: Updated.

2023-06-24  Werner Lemberg  <wl@gnu.org>

* src/rsvg-port.c
(rsvg_port_preset_slot): Fix C++ compilation warning.

2023-06-03  Hin-Tak Leung  <htl10@users.sourceforge.net>

Fix out-of-memory conditions with newer 'librsvg'.

Excerpts from `rsvg_handle_get_intrinsic_dimensions` section in
`librsvg/rsvg.h`:

```
Before librsvg 2.54.0, the `out_has_width` and `out_has_height` arguments
would be set to true or false depending on whether the SVG document actually
had `width` and `height` attributes, respectively.

However, since librsvg 2.54.0, `width` and `height` are now [geometry
properties](https://www.w3.org/TR/SVG2/geometry.html) per the SVG2
specification; they are not plain attributes.  SVG2 made it so that the
initial value of those properties is `auto`, which is equivalent to
specifying a value of `100%`.  In this sense, even SVG documents which lack
`width` or `height` attributes semantically have to make them default to
`100%`.  This is why since librsvg 2.54.0, `out_has_width` and
`out_has_heigth` are always
returned as `TRUE`, since with SVG2 all
documents *have* a default width and height of `100%`.
```

* src/rsvg-port.c (rsvg_port_preset_slot): Adjust for change of behavior of
`rsvg_handle_get_intrinsic_dimensions` in librsvg 2.53+. We avoid
`LIBRSVG_CHECK_VERSION` as it is possible to build against one version but
run against another version.

2023-06-03 Hin-Tak Leung <htl10@users.sourceforge.net>

Fix 'librsvg' deprecation warnings.

* src/rsvg-port.c (rsvg_port_preset_slot): Use `rsvg_handle_render_document`
instead of `rsvg_handle_render_cairo`, and `rsvg_handle_render_layer`
instead of `rsvg_handle_render_cairo_sub`, as suggested by the warning,
conditionally on newer librsvg 2.52+.

2023-05-22 Werner Lemberg <wl@gnu.org>
```

man/ftview.1: Improve documentation of option `-l`.

2023-05-19 Seigo Nonaka <nona@google.com>

* src/ftmulti.c (main): Make program actually handle option `-a`.

2023-05-19 Seigo Nonaka <nona@google.com>

[ftbench] New option `-a` to apply
design coordinates.

The performance of MM fonts is quite different in comparison to static
fonts. To be able to get benchmarks for the former, add a new command-line
option to pass design coordinates.

* src/ftbench.c: Include `ftmm.h`.
(MAX_MM_AXES): New macro.
(multimaster, design_pos, requested_pos, requested_cnt, used_num_axes): New
global variables.
(get_face): Load MM data if requested.
(parse_design_coords): New function.

* man/ftbench.1: Updated.

2023-05-15 Werner Lemberg <wl@gnu.org>

[ftview] New key 'Z' to flip SVG rendering.

* src/ftcommon.h (FTDemo_Handle): New field `use_svg`.
* src/ftcommon.c (FTDemo_New, FTDemo_Update_Current_Flags): Handle it.

* src/ftview.c (Process_Event): Make key 'Z' toggle SVG usage.
(event_help, write_header): Updated.

2023-05-14 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftbench] Set up cache earlier.

* src/ftbench.c (main): Run `FTC_Manager_New` and `FTC_*Cache_New`
earlier and decide the test availability accordingly.
(test_*_cache,benchmark):
Do not check if cache is set.

2023-05-12 Alexei Podtelezhnikov <apodtele@gmail.com>

*src/ftbench.c (test_stroke): Test outline glyphs only.

2023-05-12 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftbench.c (main): Assure cache setup, clean exit.

2023-05-12 Ben Wagner <bungeman@chromium.org>

Correct type of icon_span

The `icon_span` is used as a `FT_SpanFunc`. To avoid undefined behavior and a CFI sanitizer report, this function needs to called through a pointer of the same type. Fix this by making `icon_span` take the right parameter types and cast the argument in the function body.

* src/ftcommon.c (icon_span): take correct parameters and cast in function body. (FTDemo_Icon): remove cast

2023-05-12 Ben Wagner <bungeman@chromium.org>

[graph] Correct function pointer types

Building the demos with the CFI sanitizer detects a number of uses of undefined behavior in the Minimalist Graphics Subsystem where an indirect function
call is made through a pointer of a different type.
All of these cases worked in practice since the differing argument types were the same size and would have the same pointer value at runtime.

Change the functions to take the correct types and downcast inside the function.

* graph/beos/grbeos.cpp: remove casts

* graph/mac/grmac.c: correct return type of `listen_event`, remove casts

* graph/os2/gros2pm.c: correct function signatures, downcast inside functions, remove function pointer casts

* graph/win32/grwin32.c: ditto

* graph/x11/grx11.c: ditto

2023-05-12 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftbench] Use proper `face_requester`.

It is wrong to forfeit the face ownership to the cache manager. Fixes #29.

* src/ftbench.c (face_requester): Call `get face`.
(main): Never pass `face` to the cache manager.

2023-05-10 Werner Lemberg <wl@gnu.org>

subprojects/*.wrap: Updated.

2023-05-09 Jouk Jansen <joukj@hrem.nano.tudelft.nl>

vms_make.com:
Correctly handle 'libbz2'.

2023-05-08 Werner Lemberg <wl@gnu.org>

* src/ftdump.c (Print_Sfnt_Tables): Insert spaces between bytes.

2023-05-08 Werner Lemberg <wl@gnu.org>

[ftdump] Show more variation font info.

* src/ftdump.c (Print_MM_Axes): Rename to...
(Print_MM_Info): ...this.
Show Variation Font PostScript name prefix.
Show named instances.

2023-05-08 Werner Lemberg <wl@gnu.org>

[ftdump] Code cleanup.

* src/ftdump.c (Print_MM_Axes): Move code to find an English name entry
to...
(get_english_name_entry): ... this new function.

2023-05-08 Werner Lemberg <wl@gnu.org>

* src/output.c: Handle `\0` specially.

Broken or intentionally invalidated fonts might contain NULL bytes at
arbitrary places.

2023-05-05 suzuki toshiya <mpsuzuki@hiroshima-u.ac.jp>

[ftdump] Print CID-keyed font properties if available.

* src/ftdump.c

(FT_CID_MAX): New macro.

(usage): Mention the CID coverage in `-c' and `-C'
options.

(Print_UInt_Range): New function to print
2 numbers
with a separator if needed.

(Print_CIDs): New function to print the implemented
CIDs in a compressed syntax. If a case
`gid_N < gid_M && CID_N > CID_M' is found, ftdump
aborts and guide the user to file the issue.

(Print_ROS_From_Face): New function to print the
Registry, Ordering, and Supplement of the CID-keyed
fonts, if available. If `-c' or `-C' option is
given, Print_CIDs() is invoked.

(main): Invoke Print_ROS_From_Face().

2023-04-24 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftgrid.c (grid_status_rescale): Use PPEM-based scaling.

The zoom becomes well defined for the given size but the ascender and
descender lines might be offside.

2023-04-23 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftview.c (Render_{All,Fancy,Stroke}): Improve zero-width glyphs.

2023-04-23 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftview.c (Render_{All,Fancy,Stroke}): Tweak zero-width glyphs.

This helps to avoid collisions and unhides zero-width
glyphs better.

2023-04-21 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftview] Use green empty boxes instead.

* src/ftview.c (status): Store green color.
(main): Initialize it.
(Render_*): Use it.

2023-04-21 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftview.c (main): Remove unnecessary code.

2023-03-27 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftlint.c (main): Handle rendering errors differently.

2023-03-27 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftlint.c (main): Fix segfault with bad command line.

2023-03-26 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftlint] Examine the outline shape complexity.

Measured as a ratio of the outline half-perimeter to the sum of its
control box dimensions, the shape complexity is a useful metric.
For example, an `I` and an `M` would have complexities of about
1.0 and 2.0, respectively.

* src/ftlint.c (Examine): Implement the shape complexity calculation.
(main) Report the shape complexity.
* man/ftlint.1:
Add a brief explanation.

2023-03-15 Charlie Jiang <w@chariri.moe>

[ftinspect] Support gray level scaling.

See commit 746d5be5: Convert to 256 grays. Slightly tweaked code style.

* src/ftinspect/engine/rendering.cpp (RenderingEngine::convertBitmapTo8Bpp):
Implement it.

2023-03-10 Jouk Jansen <joukj@hrem.nano.tudelft.nl>

Update VMS installation support.

2023-03-03 Charlie Jiang <w@chariri.moe>

[ftinspect] Fix uninitialized memory issue and reference misuse.

Fixes issue #23.

* src/ftinspect/engine/rendering.cpp (RenderingEngine::convertBitmapTo8Bpp):
Properly initialize `FT_Bitmap` since it is a value type.
(RenderingEngine::convertBitmapToQImage): Fix the accidental overwriting of
the source bitmap when converting the bitmap format (only happens for
`FT_PIXEL_MODE_GRAY2` and `FT_PIXEL_MODE_GRAY4`) due to a misuse of a C++
reference.

* src/ftinspect/glyphcomponents/glyphcontinuous.cpp
(GlyphContinuous::drawCacheGlyph): Fix a crash when the `QImage`
was failed
to produce.

2023-03-02 Werner Lemberg <wl@gnu.org>

* graph/gblblit.c: Include `<stdlib.h>`.

This is for the `abs` function.

2023-03-02 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Handle glyphs with 4 or 16 grays.

* graph/gblblit.c (gblender_glyph_upgray): Convert to 256 grays.
(gblender_blit_init): Call it if necessary.

2023-02-27 Werner Lemberg <wl@gnu.org>

TrueType mode v38 is gone.

Synchronize with FreeType commit 'Hide Infinality.' from 2023-Feb-17.

Both macros `TT_INTERPRETER_VERSION_38` and `TT_INTERPRETER_VERSION_40` have
now the same value, leading to numerous compilation errors because we use
these two macros as (different) case labels in switch statements.

* src/ftbench.c (tt_interpreter_versions, header, usage, main): Don't use
`TT_INTERPRETER_VERSION_38`.
* src/ftcommon.c (FTDemo_Hinting_Engine_Change, FTDemo_Get_Info): Ditto.
* src/ftdiff.c (ColumnStateRec, render_state_init, render_state_draw):
Ditto.
* src/ftmulti.c
(tt_interpreter_versions, main): Ditto.
* src/ttdebug.c (tt_interpreter_versions, Usage, main): Ditto.

* src/ftinspect/engine/engine.hpp (EngineDefaultValues): Ditto.
* src/ftinspect/engine/engine.cpp (Engine::queryEngine): Ditto.
* src/ftinspect/models/customcomboboxmodels.hpp (HintingModeComboBoxModel):
Ditto.
* src/ftinspect/models/customcomboboxmodels.cpp
(HintingModeComboBoxModel::HintingModeComboBoxModel): Ditto.
* src/ftinspect/panels/settingpanel.cpp (SettingPanel::setDefaults): Ditto.

2023-02-13 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftmulti.c: Clean up loading and scaling.

2023-02-13 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftmulti.c (main, Init_Display): Clean up GUI setup.

2023-02-13 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftmulti.c: Clean up and fix MSVC warnings.

2023-02-13 Alexei Podtelezhnikov <apodtele@gmail.com>

* man/ftmulti.1: Updated.

2023-02-12 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftmulti] Enable
fill rule flag testing.

Variation fonts often relay on overlapping contours. To reveal them,
we enable turning the even-odd fill rule on and off. This flag is
always off in FreeType by default but supported by the anti-aliased
renderer.

* src/ftmulti.c (Process_Event): Reassign F3 to fill rule toggle,
assign Tab to anti-aliasing toggle.
(Render_Glyph): Tinker with the fill rule flags before rendering.

2023-02-12 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftmulti.c: Clean up and fix warnings.

2023-02-12 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftmulti.c (Process_Event): Miscellaneous tweaks.

Set default step at 1/40 which covers most preferable coordinates.
Adjust the step by doubling or halving it. Round all large-range
coordinates, not just MM. Wrap the coordinates around.

2023-02-12 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftmulti.c (Render_All, Render_Text, main): Layout tweaks.

2023-02-12 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftmulti]

Enable overlap flag testing.

Variation fonts often relay on overlapping contours, which require
oversampling to render properly. FreeType relies on FT_OUTLINE_OVERLAP
to trigger the expensive mitigation algorithm. This commit enables
tinkering with the overlap flags and, therefore, the oversampling.
Normally, the flags should be set by the font designers sparingly.

The bitmap strike toggle is no longer available, which has never
been important for the variation font testing.

* src/ftmulti.c (Process_Event): Reassign F4 to overlap toggle.
(Render_Glyph): Tinker with the overlap flags before rendering.

2023-02-11 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftmulti.c (Init_Display): Use automatic color depth.

2023-02-11 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftmulti.c (main): Synchronize options with the others.

2023-02-09 Werner Lemberg <wl@gnu.org>

* Version 2.13.0 released.
==========

Tag sources with 'VER-2-13-0'.

*
README: Updated.
* meson.build: Updated.
* man/*.1: Updated.

2023-02-09 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/win32/grwin32.c (Message_Process): Drop some sizing messages.

With the window procedure in a separate thread we only need to forward
basic WM_SIZE, which is sent frequently enough.

2023-02-08 Werner Lemberg <wl@gnu.org>

Fix various minor compiler warnings.

2023-02-08 Werner Lemberg <wl@gnu.org>

[ftgrid] Synchronize with FreeType git.

The changes are necessary due to the commit

```
Avoid reserved identifiers that are globally defined.
```

2023-02-08 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftmulti.c (Render_All): Tighten right margin.

2023-02-07 Alexei Podtelezhnikov <apodtele@gmail.com>

[builds/windows] Add ftmulti.

* builds/windows/msvc/ftmulti.vcxproj: New project.
* builds/windows/msvc/ft2demos.sln: Add it to solutions.

2023-02-07 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph/win32] Minor driver improvements.

*
graph/win32/grwin32.c: (gr_win32_device_init): Do not set icon
or background, which is covered anyway.
(Message_Process) [WM_PAINT]: Paint only updated rectangle.

2023-02-06 Werner Lemberg <wl@gnu.org>

* src/ftmulti.c (Process_Event): Simplify.

2023-02-06 Werner Lemberg <wl@gnu.org>

[ftmulti] More key reassignments.

This is a try to better harmonize with other demo programs, and to make the
selection of axes more mnemonic.

* src/ftmulti.c (MAX_MM_AXES): Set to 16.
(Process_Event): Use keys 'aA' for axis 0, 'bB' for axis 1, ..., 'pP' for
axis 16.
Use F1 for help, too.
Use 16, 256, and 4096 as the glyph index increments.
Also adjust other keys to avoid collisions.
(Help): Updated.
(main): Show mnemonic letter next to axis.
Updated.

2023-02-05 Werner Lemberg <wl@gnu.org>

[ftmulti] Display up to 15 axes.

Due to the support of the 'avar' version 2 OpenType extension it is expected
that the number of axes in many fonts will increase because adding
'virtual
axes' is cheap now.

* src/ftmulti.c (MAX_MM_AXES): Set to 15.
(Help): Updated.
(Process_Event): Handle keys '7890-=' for axes 6-8, '!@#$%^' for axes 9-11,
and '&*()_+' for axes 12-14.

2023-02-05 Werner Lemberg <wl@gnu.org>

[ftmulti] Change layout to list axes vertically.

* src/ftmulti.c (Render_All, Render_Text): Shift 'upper left corner' for
glyph display up and to the right.
(main): Emit one axis per line at the left side of the screen.

2023-02-05 Werner Lemberg <wl@gnu.org>

* graph/grevents.h (grKey): Add `grKeyHash` and `grKeyAmpersand`.

2023-02-04 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftcommon.c (my_face_requester): Recognize t1 file extension.

2023-02-04 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/win32/grwin32.c (Message_Process): Return TRUE on WM_SIZING.

2023-02-02 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph/win32] Improve error handling.

* graph/win32/grwin32.c (gr_win32_surface_resize): Change return type.
(gr_win32_surface_init):
Ditto and handle failure gracefully.

2023-02-01 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftstring.c (write_header): Change layout.

2023-01-30 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftlint.c (Analyze): Report void bitmaps.

2023-01-30 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftstring] Reduce floating point use.

* src/ftcommon.c (FTDemo_String_Load): Use signed integers, not doubles.
* src/ftstring.c (event_angle_change): Minor.

2023-01-30 Werner Lemberg <wl@gnu.org>

* subprojects/libpng.wrap: Updated.

2023-01-29 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftstring.c (write_header): Always report kerning info.

2023-01-28 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftstring] New feature: simple string editor.

It only handles printable ASCII characters and backspace to erase them.

* src/ftstring.c (Process_Event): Use Enter key to initiate this mode.
(Process_TTY): Intercept and handle relevant keys
while editing.
(Render_TTY): Special rendering mode while editing.
(main, event_help): Updated.

2023-01-28 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftstring.c (event_render_mode_change): Remove report.

2023-01-28 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/win32/grwin32.c (key_translators): Sort virtual-key codes.

2023-01-27 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftstring.c (Render_Waterfall): Avoid bitmap reloading.

This hides horrible performance of compressed PCF fonts.

2023-01-25 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftview.c (Render_Waterfall): Fill the right margin.

The waterfall looks better if the string runs over the edge.

2023-01-25 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftgrid,ftstring,ftview] Option to select charmap by index.

* src/ftcommon.c (FTDemo_Install_Font): Accept a charmap index.
(FTDemo_Make_Encoding_Tag): Fall back on a numeric value to return.

* src/ftgrid.c, src/ftstring.c, src/ftview.c
(usage): Updated.
* man/ftgrid.1, man/ftstring.1, man/ftview.1: Ditto.

2023-01-24 Alexei Podtelezhnikov <apodtele@gmail.com>

Typos.

2023-01-23 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftlint.c (Usage): Output to stderr, like others do.

2023-01-22 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftbench,ftgrid,ftmulti,ftview] Accept hexadecimal glyph indices.

This helps to use charcodes on the command line.

* src/ftbench.c (main): Use sscanf with "%i".
* src/ftgrid.c (parse_cmdline): Ditto.
* src/ftmulti.c (main): Ditto.
* src/ftview.c (parse_cmdline): Ditto.

2023-01-21 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/win32/grwin32.c (gr_win32_surface_init): Polish gray mode.

2023-01-21 Alexei Podtelezhnikov <apodtele@gmail.com>

Edit comments.

2023-01-20 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Explain the blender cache.

2023-01-18 Alexei Podtelezhnikov <apodtele@gmail.com>

Typos.

2023-01-17 Werner Lemberg <wl@gnu.org>

Update
all copyright notices.

2023-01-17 Werner Lemberg <wl@gnu.org>

* src/ftinspect/*.[ch]pp: Normalize copyright notices

This allows the use of FreeType's `update-copyright-year` script.

2023-01-17 Werner Lemberg <wl@gnu.org>

Minor comment typos.

2023-01-16 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftview.c (Process_Event): Fix -Wswitch warning.

2023-01-14 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftview] Microoptimization.

* src/ftview.c (parse_cmdline, write_header, Process_Event, parse):
Prioritize easy checks.

2023-01-14 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftview.c (Process_Event): Trigger screen updates locally.
(main, status): Cleaned up.

2023-01-14 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftview.c (Process_Event): Minor refactoring.

2023-01-13 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftview.c (Process_Event): Small harmonization.

2023-01-12 Alexei Podtelezhnikov <apodtele@gmail.com>

Typos.

2023-01-11
Alexei Podtelezhnikov <apodtele@gmail.com>

Minor comment.

2023-01-11 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftcommon.c (FTDemo_Draw_Header): Minor.

2023-01-11 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/*.c: Pair up `grRefreshSurface` and `grListenSurface` calls.

2023-01-10 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftstring.c (main, write_header): Reset custom header differently.

2023-01-10 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftstring] Fix error reporting.

* src/ftstring.c (Render_*): Do not return or overwrite errors.
(main): Updated accordingly.

2023-01-09 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftview.c: Remove obsolete comments.

2023-01-09 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftcommon.c (FTDemo_Draw_Header): Show sizing errors again.

2023-01-08 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftview, ftstring] Prevent locking on broken unsizable fonts.

* src/ftstring.c (Render_Waterfall):
Break on error.
* src/ftview.c (Render_Waterfall): Break on error.

2023-01-06 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftview.c: Fix a warning.

2023-01-05 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftlint.c (main): Decorate opening and sizing errors.

2023-01-03 Werner Lemberg <wl@gnu.org>

* src/ftcommon.c (FTDemo_Draw_Header): Handle invalid `size` objects.

2022-12-07 Werner Lemberg <wl@gnu.org>

* subprojects/zlib.wrap: Micro-update from upstream.

2022-12-01 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftbench.c (main): Sync the render mode and the load target.

2022-11-30 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftbench.c (main): Honor render mode with FT_LOAD_RENDER.

2022-11-14 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftbench.c: Relocate and undo BBox rotations.

2022-11-13 Alexei Podtelezhnikov <apodtele@gmail.com>

* man/ftbench.1: Minor updates.

2022-11-11 Alexei Podtelezhnikov <apodtele@gmail.com>

*
src/ftbench.c (test_get_bbox): Use `FT_Set_Transform`.

2022-11-11 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftbench] Fix up charmap benchmarking.

* src/ftbench.c (main): Parse and process the charmap index option.
(header): Report the active charmap index.
(usage): Document it.
(test_cmap_cache): Call `FTC_CMapCache_Lookup` with correct argument.
(test_cmap_iter): Do not count idle charmaps.

* man/ftbench.1: Document the charmap selection.

2022-10-25 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftview] Improve error tracking.

* src/ftcommon.c (FTDemo_Error_String): Spin off new function from...
(PanicZ): ... this function.
* src/ftcommon.h (FTDemo_Error_String): Declare it.
* src/ftview.c (Process_Error): Count and track persistent errors.
(Render_*): Use it.
(main): Report the persistent error code and description.

2022-10-25 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftview.c (Render_Stroke): Render bitmaps without stroking.

2022-10-24 Werner Lemberg
<wl@gnu.org>

Replace '1/50th' (and similar entries) with '1/64' in output and comments.

2022-10-20 Werner Lemberg <wl@gnu.org>

* subprojects/zlib.wrap: Update to zlib version 1.2.13.

2022-10-08 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/x11/grx11.c (gr_x11_surface_{init,done}): Use DefaultGC.

2022-10-07 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/x11/grx11.c (gr_x11_surface_init): Ignore border and colormap.

The colormap is unused. The border is set by a window manager.

2022-10-03 Charlie Jiang <w@chariri.moe>

[ftinspect] Change unclear comments.

* src/ftinspect/engine/fontinfo.hpp,
src/ftinspect/glyphcomponents/glyphcontinuous.cpp: Clearify comments.

* src/ftinspect/maingui.cpp: Actually the left widget does more than
setting the margin, so the comment line about removing the left widget and
layout is removed.

2022-10-03 Charlie Jiang <w@chariri.moe>

* src/ftinspect/engine/engine.cpp: Fix CBDT/CBLC colored fonts.

Add
`FT_LOAD_COLOR` for those fonts.

2022-10-03 Werner Lemberg <wl@gnu.org>

[ftinspect] Format `src/ftinspect/*`.

2022-10-03 Werner Lemberg <wl@gnu.org>

[ftinspect] Format `src/ftinspect/widgets/*`.

2022-10-03 Werner Lemberg <wl@gnu.org>

[ftinspect] Format `src/ftinspect/panels/*`.

2022-10-03 Werner Lemberg <wl@gnu.org>

[ftinspect] Format `src/ftinspect/models/*`.

2022-10-03 Werner Lemberg <wl@gnu.org>

[ftinspect] Format `src/ftinspect/glyphcomponents/*`.

2022-10-03 Werner Lemberg <wl@gnu.org>

[ftinspect] Format `src/ftinspect/engine/*`.

2022-10-02 Werner Lemberg <wl@gnu.org>

[ftinspect] Format build files for cmake and meson.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Do it.
Also sort entries.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Activate the color layers by default.

Don't deactivate it when color layers are absent. Also fix typo.

* src/ftinspect/panels/settingpanel.cpp: Updated.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect]
Fix memory-related crash, and refactor outline-retaining...

graphics items. Also fix some compiler warnings.

* src/ftinspect/glyphcomponents/glyphoutline.cpp,
  src/ftinspect/glyphcomponents/glyphoutline.hpp:
  Don't retain the `FT_Outline*` whose lifetime is bound to the glyph.
  Prepare the path in the ctor so the outline isn't saved.
  Add `GlyphUsingOutline` as the base class for all classes that have to
  retain a `FT_Outline` object.

* src/ftinspect/glyphcomponents/glyphpointnumbers.cpp,
  src/ftinspect/glyphcomponents/glyphpointnumbers.hpp,
  src/ftinspect/glyphcomponents/glyphpoints.cpp,
  src/ftinspect/glyphcomponents/glyphpoints.hpp: Refactored.

```
* src/ftinspect/engine/engine.hpp, src/ftinspect/panels/singular.hpp,
  src/ftinspect/engine/rendering.hpp
  Add default values to initialize member fields.

* src/ftinspect/panels/singular.cpp:
  Pass the `FT_Library` into the graphics items.

* src/ftinspect/models/fontinfomodels.cpp:
Fix warning.

2022-09-25  Charlie Jiang  <w@chariri.moe>

[ftinspect] Add transformation and scaling info to the composite glyph view.

Note: Untested since no font with non-1.0 scale subglyphs is found.

* src/ftinspect/engine/fontinfo.cpp, src/ftinspect/engine/fontinfo.hpp:
  Fetch transformation and scaling info from the font.

* src/ftinspect/models/fontinfomodels.cpp,
  src/ftinspect/models/fontinfomodels.hpp:
  Change the "Position" column to "Position and Transformation".
  Display the transformation info.

2022-09-25  Charlie Jiang  <w@chariri.moe>

[ftinspect] Improve bitmap display in the glyph details pane.

Now the ppem square is displayed as light gray, ink box as blue,
xy-axis as thin black lines.
Adding ppem square improves displaying of non-spacing glyphs.

* src/ftinspect/panels/glyphdetails.cpp:
  Pass the ppem box to the `GlyphBitmap` widget.

* src/ftinspect/glyphcomponents/glyphbitmap.cpp,
  src/ftinspect/glyphcomponents/glyphbitmap.hpp:
  Add a `placeholderRect`
to store the ppem square info. Layout the glyph
  bitmap on the basis of the ppem square.
  Draw auxiliary lines on the canvas.

2022-09-25  Charlie Jiang  <w@chariri.moe>

[ftinspect] Modify the about text and add actual version.

* src/ftinspect/maingui.cpp: As described.
```

```
 * src/ftinspect/ftinspect.cpp: Pass the actual version.

 * src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
   Add `dynamicLibraryVersion` func.

2022-09-25  Charlie Jiang  <w@chariri.moe>

 * src/ftinspect/engine/engine.cpp: Minor formatting.

2022-09-25  Charlie Jiang  <w@chariri.moe>

 [ftinspect] Fix random crash when closing fonts.

 * src/ftinspect/widgets/tripletselector.cpp: Disallow font indices below 0.
   It seems the CFF driver can't handle this properly.

2022-09-25  Charlie Jiang  <w@chariri.moe>

 [ftinspect] Add "Font Info" tab.

 * src/ftinspect/panels/info.cpp, src/ftinspect/panels/info.hpp:
   New files, add the `InfoTab` class.

 * src/ftinspect/engine/fontinfo.cpp,
 src/ftinspect/engine/fontinfo.hpp:
   Add `SFNTTableInfo`, `FontBasicInfo`, `FontTypeEntries`, `FontFixedSize`
   and `CompositeGlyphInfo`. The `SFNTTableInfo` and `CompositeGlyphInfo`
   classes retrieve info without the related FreeType API, but directly
   parse the font data.

 * src/ftinspect/models/fontinfomodels.cpp,
   src/ftinspect/models/fontinfomodels.hpp:
   New files. Add models for the tables and the tree view in the info tab to
   use.

 * src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
   Add `loadDefaults` function for the composite glyphs view to draw its
   small icon.
   Add `currentFontHasGlyphName`, `currentFontPSInfo`,
   `currentFontPSPrivateInfo` and `currentFontSFNTTableInfo` to obtain info.
   Add getters.

 * src/ftinspect/engine/fontinfonamesmapping.cpp: New file for name mapping.

 * src/ftinspect/engine/fontfilemanager.cpp,
   src/ftinspect/engine/fontfilemanager.hpp:
   Add `currentReloadDueToPeriodicUpdate` so the composite glyph
```

tree isn't
refreshed (which is a very expensive process) for the periodic updating of
symbolic font files.

* src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp:
Add the font info tab info the main window and wire events.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Updated.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Add "Comparator View".

* src/ftinspect/panels/comparator.cpp, src/ftinspect/panels/comparator.hpp:
New files, adding the `ComparatorTab`.

* src/ftinspect/panels/settingpanel.cpp,
src/ftinspect/panels/settingpanel.hpp: Add comparator mode.

* src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp:
Add comparator tab and modify `switchTab` to prevent unwanted window
resizing, and to fix the tab bar position.
Modify `applySettings` to skip applying for comparator tab.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Updated.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Add left/right click
behaviour to the continuous view.

Left clicking will open the glyph details pane, and right clicking will
switch to the singular tab.

* src/ftinspect/panels/glyphdetails.cpp,
src/ftinspect/panels/glyphdetails.hpp:
New files, add the `GlyphDetails` class.

* src/ftinspect/glyphcomponents/glyphcontinuous.cpp,
src/ftinspect/glyphcomponents/glyphcontinuous.hpp:
Add `mouseReleaseEvent` event handler which emits the new
`updateGlyphDetails` and `rightClickGlyph` signals.

* src/ftinspect/glyphcomponents/glyphbitmap.cpp,
src/ftinspect/glyphcomponents/glyphbitmap.hpp:
Add `GlyphBitmapWidget` to show the enlarged bitmap.

* src/ftinspect/panels/continuous.cpp, src/ftinspect/panels/continuous.hpp:

Add code to update the details panel, and wire up events.

* src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp:
  Add code to initialize the glyph details panel, and wire up components and
  events.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Updated.

2022-09-25
Charlie Jiang <w@chariri.moe>

[ftinspect] Add "Continuous View".

Most new features in the continuous view are included in the commit, except
the mouse left (details pane)/right (go to singular) click behaviour.

* src/ftinspect/panels/continuous.cpp, src/ftinspect/panels/continuous.hpp:
  New files, the main continuous tab.

* src/ftinspect/glyphcomponents/glyphcontinuous.cpp,
  src/ftinspect/glyphcomponents/glyphcontinuous.hpp:
  New files, adding the `GlyphContinuous` as the actual canvas for
  continuous rendering.

* src/ftinspect/engine/stringrenderer.cpp,
  src/ftinspect/engine/stringrenderer.hpp:
  New files, adding `StringRenderer` to layout the strings and produce
  glyphs for the canvas to draw.

* src/ftinspect/widgets/charmapcombobox.cpp,
  src/ftinspect/widgets/charmapcombobox.hpp:
  New files, add the `CharMapComboBox` widget.

* src/ftinspect/engine/charmap.cppsrc/ftinspect/engine/charmap.hpp:
  New files, adding `CharMapInfo` class.

*
src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
  Add necessary fields and getters for string rendering.
  Retrieve charmap when loading fonts.

* src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp:
  Add the continuous view to the main window.
  Call `ContinuousTab::highlightGlyph` when switching from singular to
  continuous view.

* src/ftinspect/panels/settingpanel.cpp: Uncomment functional code.

```
* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Updated.

2022-09-25  Charlie Jiang  <w@chariri.moe>

# This is a combination of 2 commits.
# This is the 1st commit message:

[ftinspect] Add "Continuous View".

Most new features in the continuous view are included in the commit, except
the mouse left (details pane)/right (go to singular) click behaviour.

* src/ftinspect/panels/continuous.cpp, src/ftinspect/panels/continuous.hpp:
  New files, the main continuous tab.

* src/ftinspect/glyphcomponents/glyphcontinuous.cpp,
  src/ftinspect/glyphcomponents/glyphcontinuous.hpp:

  New files, adding the `GlyphContinuous` as the actual canvas for
  continuous rendering.

* src/ftinspect/engine/stringrenderer.cpp,
  src/ftinspect/engine/stringrenderer.hpp:
  New files, adding `StringRenderer` to layout the strings and produce
  glyphs for the canvas to draw.

* src/ftinspect/widgets/charmapcombobox.cpp,
  src/ftinspect/widgets/charmapcombobox.hpp:
  New files, add the `CharMapComboBox` widget.

* src/ftinspect/engine/charmap.cppsrc/ftinspect/engine/charmap.hpp:
  New files, adding `CharMapInfo` class.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
  Add necessary fields and getters for string rendering.
  Retrieve charmap when loading fonts.

* src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp:
  Add the continuous view to the main window.
  Call `ContinuousTab::highlightGlyph` when switching from singular to
  continuous view.

* src/ftinspect/panels/settingpanel.cpp: Uncomment
functional code.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Updated.

# This is the commit message #2:
```

```
* src/ftinspect/engine/stringrenderer.cpp: Fix infinite loop.

Don't limit the glyph position and exit too early, or the loop in `render`
function won't stop forever. Also, since the string can be moved by the
mouse, there's no point to limit the line position in the canvas viewport.

2022-09-25  Charlie Jiang  <w@chariri.moe>

[ftinspect] Add SFNT `name` table retrieving.

* src/ftinspect/engine/fontinfo.cpp, src/ftinspect/engine/fontinfo.hpp:
  New files, add `SFNTName` to retrieve `name` table.
  Conversions to `QString` from mainstream encodings are supported.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
  Add `currentFontSFNTNames` and retrieve the `name` table when loading the
  font. Also pass the SFNT name table when loading palettes.

* src/ftinspect/engine/mmgx.cpp, src/ftinspect/engine/paletteinfo.cpp:
  Uncomment functional
code to make use of the `name` table.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Updated.

2022-09-25  Charlie Jiang  <w@chariri.moe>

[ftinspect] Support MM/GX.

* src/ftinspect/panels/settingpanelmmgx.cpp,
  src/ftinspect/panels/settingpanelmmgx.hpp:
  Add GUI widgets for MM/GX settings.

* src/ftinspect/engine/mmgx.cpp, src/ftinspect/engine/mmgx.hpp:
  Add `MMGXAxisInfo` to retrieve axes info. However, the SFNT name table
  isn't implemented, so the SFNT based axis names are unavailable.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
  Add `applyMMGXDesignCoords`. Add getters `currentFontMMGXState` and
  `currentFontMMGXAxes`. Info is retrieved when loading font.

* src/ftinspect/panels/settingpanel.cpp,
  src/ftinspect/panels/settingpanel.hpp: Uncomment functional code.
  Remove `checkHintingMode` and `checkStemDarkening`. Applying of delayed
  settings is taken care by the `MainGUI`. So emitting `fontReloadNeeded`

simply will do the work.
```

* src/ftinspect/maingui.cpp: Don't reset the cache so aggressively.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Updated.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Add auxiliary lines for the grid view.

The aux lines will show advance and asc/descender.

* src/ftinspect/glyphcomponents/grid.cpp,
  src/ftinspect/glyphcomponents/grid.hpp: Implement aux lines.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
  Add `currentSizeAscDescPx`.

* src/ftinspect/panels/singular.cpp, src/ftinspect/panels/singular.hpp:
  Pass parameters to the `Grid` graphics item.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Support opening files drag-dropping.

* src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp: Add related code.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Support opening files via command-line.

* src/ftinspect/engine/fontfilemanager.cpp,
  src/ftinspect/engine/fontfilemanager.hpp:

  Add `loadFromCommandLine` func.

* src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp:
  Add and call `loadCommandLine` func.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Support LCD rendering.

* src/ftinspect/engine/rendering.cpp, src/ftinspect/engine/rendering.hpp:
  Implement `convertLCDToARGB` and `convertLCDVToARGB`.
  Add `lcdUsesBGR` property.

* src/ftinspect/panels/settingpanel.cpp: Uncomment functional code.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Support color layers.

* src/ftinspect/engine/rendering.cpp:
  Add implementation of `tryDirectRenderColorLayers`.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
  Implement `loadPaletteInfos` and `loadPalette`.
  Add `currentFontHasColorLayers` and a group of getters/setters supporting
  color layer rendering.
  Also reorder fields as the number of fields grows.

* src/ftinspect/panels/settingpanel.cpp,
  src/ftinspect/panels/settingpanel.hpp:
  Implement
`populatePalettes` and reorder functions.
  Fix `checkPalette` about combo box enabling state and reset the cache when
  the palette settings change.
  Uncomment functional code.

* src/ftinspect/engine/paletteinfo.cpp,
  src/ftinspect/engine/paletteinfo.hpp: New files adding `PaletteInfo`.
  Retrieving palette names using SFNT name tables is not supported yet.

* src/ftinspect/panels/singular.cpp:
  Call `Engine::loadPalette` when drawing.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Updated.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Support stem darkening.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
  Add `setStemDarkening` func.

* src/ftinspect/panels/settingpanel.cpp: Uncomment function code.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Support tricky fonts.

For tricky fonts, we disable auto-hinter and limit the TT interpreter
version.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:

Add `currentFontTricky` function and turn off hinting forcibly when the
user turns it off in the GUI for tricky fonts.

* src/ftinspect/panels/settingpanel.cpp: As described.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Support embedded bitmap and bitmap-only fonts.

Bitmap glyphs are already supported in the new rendering engine, so we make
the option effective in the GUI. Also support bitmap-only fonts by coercing
sizes to available ones and force embedded bitmaps.

* src/ftinspect/widgets/fontsizeselector.cpp,
src/ftinspect/widgets/fontsizeselector.hpp:
Retrieve fixed sizes info from the engine and coerce to nearest available
sizes when using bitmap-only fonts.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
Add `embeddedBitmapEnabled` property and `currentFontHasEmbeddedBitmap`,
`currentFontBitmapOnly` and `currentFontFixedSizes` getters.

* src/ftinspect/panels/settingpanel.cpp: Uncomment functional code.

2022-09-25
Charlie Jiang <w@chariri.moe>

[ftinspect] Refactor `Engine` and fix the singular tab.

This comment brings the new glyph loading and bitmap rendering code.
The bitmap rendering part is in `RenderingEngine` which can be obtained
from the `Engine`. The `Engine` now supports loading the glyph by loading
with image cache and without image cache.
The `loadOutline` function is removed.

Accompanying this change, some new features are introduced as well. Most
notable the improvements in rendering: back/foreground color and gamma,
support bitmap glyphs (not enabled in the UI). Support for LCD and color
layer font is absent yet.

The singular tab is now enabled by uncommented functional code that was
commented in the last commit.

In `Engine`, a `ftFallbackFace_` is introduced for all non-rendering work,
and the old `ftSize_` is only used for rendering. This helps dealing with
non-scalable fonts since we can safely retrieve info with the fallback face.

* src/ftinspect/engine/engine.cpp,

src/ftinspect/engine/engine.hpp:
  Integrate the `RenderingEngine`.
  Change `loadFont` to update the `ftFallbackFace_` as well.
  Change all info-retrieving functions to use `ftFallbackFace_`.
  Add `loadGlyph`, `loadGlyphIntoSlotWithoutCache` and
  `loadGlyphWithoutUpdate`, and remove `loadOutline`.
  Extract code about "get a face object from the cache and do sth."
  into a new function `withFace`.
  Add property `antiAliasingEnabled` and `renderMode` for the rendering
  engine.
  Some minor changes are included.

* src/ftinspect/engine/rendering.cpp, src/ftinspect/engine/rendering.hpp:
  New files, as described.

* src/ftinspect/panels/settingpanel.cpp,
  src/ftinspect/glyphcomponents/glyphbitmap.cpp,
  src/ftinspect/panels/singular.cpp: Uncomment functional code.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Updated.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Add the `SingularTab` and related widgets.

This introduces
the new singular tab. However, because the new tab heavily
depend on the new engine structure, it's current not functional. No bitmap
or outline will be displayed. This would be fixed after the `Engine` was
refactored in the next commit.

The new singular tab has the size and glyph index selector moved out as
modular widgets to be reused.

The new scroll and shortcut behaviours are introduced in this commit, which
depend on scroll events introduced in the custom `QGraphicsViewx`.

The infinity panning of grid is implemented mainly via
`SingularTab::updateGrid` and `Grid::updateRect`.

This commit is introducing new features since it would be unfavorable to
"backport" old version of glyph components, and add those new features in
future commits - this is way too complex.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
  Add `currentFontNumberOfGlyphs` and `dpi` functions.

* src/ftinspect/widgets/fontsizeselector.cpp,

src/ftinspect/widgets/fontsizeselector.hpp:

This is the new font size selector to replace the old size/DPI/zoom boxes.
This widget is capable of handling wheel and key events delegated from other widgets.
The support for fixed sizes and bitmap-only font is not yet added.

* src/ftinspect/widgets/glyphindexselector.cpp,
src/ftinspect/widgets/glyphindexselector.hpp:
This is the new glyph index selector to replace the old navi buttons.
This selector is aware of index min/max, consists of a group of navi buttons, a text box (actually a spin box without buttons) to directly input glyph index.

* src/ftinspect/glyphcomponents/graphicsdefault.cpp,
src/ftinspect/glyphcomponents/graphicsdefault.hpp:
This struct contains all default graphical settings (mainly for singular view, e.g. the grid line color).

* src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp:
Add the new tab into the main window.

* src/ftinspect/glyphcomponents/glyphbitmap.cpp,
src/ftinspect/glyphcomponents/glyphbitmap.hpp:

This will now delegate rendering to the engine instead of doing rendering itself. However, since the rendering part of the `Engine` is not implemented, code initializing `image_` is left commented.
Also add another constructor for initializing directly from a `QImage`.

* src/ftinspect/glyphcomponents/glyphoutline.cpp,
src/ftinspect/glyphcomponents/glyphoutline.hpp,
src/ftinspect/glyphcomponents/glyphpointnumbers.cpp,
src/ftinspect/glyphcomponents/glyphpointnumbers.hpp,
src/ftinspect/glyphcomponents/glyphpoints.cpp,
src/ftinspect/glyphcomponents/glyphpoints.hpp:
Constructors of those items now accept a `FT_Glyph` instead of `FT_Outline`. The conversion is done inside the view, and the view won't be displayed if the glyph isn't outline glyph.
This simplifies the code of `SingularTab`.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Updated.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Rewrite `MainGUI`.

Note:

This commit compiles, but the main view is removed, so you will get a
blank right panel. The singular view will be added back with major changes
in the next commit.

This commit mainly introduces below changes:

1. The original `MainGUI` contains almost all GUI elements. Most of them are
   taken out to modular components. The current `MainGUI` serves only as
   a skeleton provides coordinate between components, greatly shortened.
   It also provides some auxiliary code such as calling to file chooser.
2. The left panel is moved to `SettingPanel` class. The current
   `settingpanel.[ch]pp` are directly modified from the latest code, so they
   contains some options not implemented in the `Engine`.
   Structural code that is only added accompanying later change is removed,
   such as the comparator mode. Such code will be added back with the
   related feature. However, code for unimplemented options are simply
   commented out.
3. The main part is transformed into
a tabbed view. The original code is
   removed. Refactored, it will be added back in the next commit.
4. The navigation buttons (Next/Prev Font/Face/NI) are changed into the new
   triplet-selector, which is a major UI improvement.

* src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp: As described.

* src/ftinspect/panels/abstracttab.hpp: Add `AbstractTab` which is an
  interface for all tabs listening for font reloading and repainting.

* src/ftinspect/panels/settingpanel.cpp,
  src/ftinspect/panels/settingpanel.hpp:
  As described, this is the left panel. This requires intensive reviewing
  since many bugs had rooted here.

* src/ftinspect/widgets/tripletselector.cpp,
  src/ftinspect/widgets/tripletselector.hpp:
  As described, this is the triplet (Font/Subface/NI) selector.
  This component is also responsible for repopulating triplet information
  and keep up with the font file change (i.e. the
  `FontFileManager::currentFileChanged` event is captured here).

*
src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
  Add `fontValid` and `namedInstanceName` since `TripletSelector` requires
  them. However, they'll subject to change later.

* src/ftinspect/ftinspect.cpp: Remove call to `MainGUI::setDefaults`.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Updated.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] WIP: Rewrite `MainGUI`.

Note: This commit doesn't compile. This change is splitted into 2 commits
to avoid a complicated diff.

* src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp: Old version removed.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Rename `rendering` dir to `glyphcomponents`.

All classes in `rendering` directory will be responsible for draw
glyphs, either as independent widgets or as `QGraphicsItem`. However, the
actual drawing part will be placed into `RenderingEngine`. Therefore, we
rename it to `glyphcomponents`.

* src/ftinspect/rendering/**: Renamed.

*
src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build,
  src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp: Updated.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Re-organize custom widgets.

* src/ftinspect/widgets/customwidgets.cpp,
  src/ftinspect/widgets/customwidgets.cpp: New files.
  Include `QGraphicsViewx`, `ZoomSpinBox` and `UnboundScrollArea` (for later
  use).

* src/ftinspect/widgets/qspinboxx.hpp, src/ftinspect/widgets/qspinboxx.hpp:
  Changed into `ZoomSpinBox` in `customwidgets.cpp`.

* src/ftinspect/widgets/qgraphicsviewx.cpp,
  src/ftinspect/widgets/qgraphicsviewx.hpp:
  Merged into `customwidgets.cpp`

* src/ftinspect/widgets/qcomboboxx.hpp,
  src/ftinspect/widgets/qcomboboxx.cpp: Removed. No longer needed.
  We're using custom `QAbstractListModel`'s `flags` func to disable items.

* src/ftinspect/widgets/qpushbuttonx.hpp,
  src/ftinspect/widgets/qpushbuttonx.cpp: Removed. No longer needed.
  We're using `setButtonNarrowest` in `uihelper.cpp`.

*
src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp: Updated to use new
custom widgets.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Updated.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Use custom `QAbstractListModel` instead of manually mapping.

In `maingui.cpp`, mapping between `QComboBox` indices and actual FreeType
values was done manually. The enabled statuses of individual ComboBox items
were also maintained in `maingui.cpp`.

In this commit, those code was moved to seperate custom classes
implementating `QAbstractListModel`. All mapping was done there.
Enable/Disable states was maintained in the classes as well.
By doing this, the reason why some items were disabled was made more clear
and explicit. Adding more items is easier.

The `QComboBoxx` custom widget is no longer needed since disable flag can
be provided by the custom model by overriding the `flags` function.

`SimpleComboBoxModel` is a basic class for Key-Value-DisplayName
mapping.
Other models could extend this class if no complicated mapping (e.g.
`HintingModeComboBoxModel`) is needed.

* src/ftinspect/models/customcomboboxmodels.cpp,
src/ftinspect/models/customcomboboxmodels.cpp: New files.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
`Engine` now accepts "load target" value of certain anti-aliasing mode
instead of the anti-aliasing enum value. The mapping was moved into
`AntiAliasingComboBoxModel`.

* src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp: Move all mappings
and enabled/disabled statuses to separate models.
Remove mapping `QHash`es. Use `QComboBox` instead of `QComboBoxx`.

* src/ftinspect/meson.build, src/ftinspect/CMakeLists.txt: Updated.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Rename all private member variables with an underscore suffix.

(pure mechnical commit)

* src/ftinspect/**: Renaming. Also some variables with abbreviations
were renamed.

This
will enable nicer getter/setters, as discussed in #13.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Refactor `Engine`.

This commit decouples `Engine` so it no longer depends on `MainGUI`.

Because of that, a lot of getters and setters are added to `Engine`, and
`MainGUI` call setters in its `applySettings` function, which makes applying
of the settings lazy (only happen when the glyph repaints).

In the later commits, options will be divided into two types: mostly lazy
ones, and a few eager ones which need to be immediately applied, because
they need the cache to be purged.

Some code in `MainGUI` is moved into `Engine`, as well.

Functions in the `Engine` are re-ordered. Constructor is greatly reduced to
`queryEngine`.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
  As described.

* src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp:
  As described.

* src/ftinspect/ftinspect.cpp: Remove dependency of `Engine` against
  `MainGUI`.

2022-09-25
Charlie Jiang <w@chariri.moe>

[ftinspect] Move out font file managing/watching out to a new class.

Introduce the feature that rejects invalid files.

* src/ftinspect/maingui.hpp, src/ftinspect/maingui.cpp: Move `fontList`,
  `fontWatcher`, `timer` and other code related to font file managing to
  new class `FontFileManager`.

* src/ftinspect/engine.hpp, src/ftinspect/engine.cpp:
  `Engine` class now holds `FontFileManager`.

Also, make `MainGUI` open and close fonts indirectly via `Engine`.

* src/ftinspect/fontfilemanager.hpp, src/ftinspect/fontfilemanager.cpp:
New files.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Updated.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Update build system settings.

* src/ftinspect/CMakeLists.txt: Fix MSVC-only options. Require Qt 5.15 and
enable higher warning level.

* src/ftinspect/meson.build: Set C++ version. Require Qt 5.15.

2022-09-24 Alexei Podtelezhnikov <apodtele@gmail.com>

*
graph/x11/grx11.c (gr_x11_blitter_reset): Minor improvement.

2022-09-23 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/meson.build: No macOS driver yet.

Fixes #19.

2022-09-17 Alexei Podtelezhnikov <apodtele@gmail.com>

Revert "* src/ftlint.c (Checksum): Accept negative pitch."

This reverts commit bac9a53080b24e76a2dfe8def2b15682135b8454.
The pitch is always positive in the converted bitmap.

2022-09-17 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftlint.c (Checksum): Accept negative pitch.

2022-09-16 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/gblblit.c (gblender_blit_init): Fix for negative pitch.

Reported by Anurag Thakur.

2022-09-15 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Clean up the cache clearance.

Use separate functions to clear the color and channel gradient
caches and call them conditionally instead of passing the switch
around.

* graph/gblender.c (gblender_clear): Separate out...
(gblender_clear_channels): ...
this function.
(gblender_use_channels): Removed.
* graph/gblender.h: Update their declarations.
* graph/gblgblit.c (gblender_blit_init, grSetTargetPenBrush):
Updated to call the above functions and formatted.

2022-09-13 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftdiff.c: Add const qualifier to the executable basename.

2022-09-12 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftcommon.c (FTDemo_Display_New): Handle window titles.
* src/ftcommon.h: Update its prototype.
* src/ftgamma.c, src/ftgrid.c, src/ftsdf.c, src/ftstring.c, src/ftview.c
(main): Updated accordingly.

2022-09-11 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftdiff.c (render_state_draw), src/common.d (ft_strdup): Clean up.

2022-09-08 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/*.*: Add const qualifier to the executable basename.

2022-09-08 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/grobjs.* (grAlloc): Return void pointer.

2022-09-06 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph]
Fortify channel cache.

Using signed short offsets in the channel cache will risk to overflow
if the current cache size is to increase. Here we switch to unsigned
index and express it in the cache units.

* graph/gblender.h (GBlenderChanKeyRec): Update `index`.
* graph/gblender.c (gblender_clear, gblender_lookup_channel,
gblender_reset_channel_key): Updated accordingly.

2022-09-06 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/gblender.* (GBlenderRec): Cosmetic changes to cache array.

2022-08-29 shugaley <https://gitlab.freedesktop.org/shugaley>

* src/ftpngout.c (FTDemo_Display_Print): Declare `code` volatile.

Fixes #18.

2022-08-29 Alexei Podtelezhnikov <apodtele@gmail.com>

* Makefile (FTCOMMON_OBJ): Add `graph` dependency, include `rsvg-port`.

2022-08-29 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Rework #ifdef GBLENDER_STORE_BYTES.

This also settles on tripling the number of channel keys, which is
a safe bet in all
circumstances. Quadrupling might only work on
64-bit architectures or with added key structure padding, without
GBLENDER_STORE_BYTES defined.

* graph/gblender.h (GBlenderCell): Change definition.
* graph/gblblit.c (GDST_STOREB): Updated accordingly.
* graph/gblender.c (gblender_clear, gblender_reset_key,
  gblender_lookup, gblender_lookup_channel): Ditto.

2022-08-28 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Better hash function and a fix.

* graph/gblender.c (gblender_clear): Initialize recently grown array.
(gblender_lookup_channel): Improve hash function.

2022-08-28 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/gblender.c (gblender_lookup): Quest for perfect hash function.

2022-08-28 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Minor fixes.

(gblender_clear): Initialize with black background, whereas
foreground stays invalid.
(gblender_lookup_channel): Increase cache utilization.

2022-08-26 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph]
Slight optimization of cached gradients.

This saves about 1% of `ftgrid` execution time.

* graph/gblender.c (gblender_reset_key, gblender_reset_channel_key):
Implement faster gradients, which are rounded anyway.

2022-08-25 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Rework cache management.

With more complex rendering in `ftgrid`, the old cache management
resulted in excessive clashes and slow `gblender_lookup`. It is
better to replace the clashing entries than to preserve them and
search for an available spot in the table. This saves about 10%
of execution time in `ftgrid` without much effect on the others.

* graph/gblender.c (gblender_lookup): Replace old clashing entries
and hash function.
(gblender_lookup_channel): Ditto.
* graph/gblender.h (GBlenderRec): Remove `stat_clears`.

2022-08-25 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/gblender.c (gblender_lookup*): Count clashes directly.

2022-08-23 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph]
Count the number of hash clashes.

The hash table lookups take very noticeable time when rendering is
complex like in `ftgrid`. This can help optimize the hash function.

* graph/gblender.h (GBLENDER_STATS): New field for clashes.
* graph/gblender.c (gblender_init, gblender_lookup{,_channel},
gblender_dump_stats): Initialize, collect, and report clashes.

2022-08-18 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Fix mishandling of LCDv formats.

* graph/gblblit.c (gblender_blit)init): Triple the LCDv pitch.
* graph/gblany.h (_gblender_blit_{vrgb,vbgr}_*): Updated accordingly.

2022-08-17 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/gblender.c: Minor.

2022-08-17 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/gblblit.c (grBlitGlyphToSurface): Remove redundant check.

The rare empty glyphs will be caught later in `gblender_blit_init`.

2022-08-17 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/gblender.c (gblender_set_gamma_table):
Reintroduce linear loops.

2022-08-17 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/gblender.c (gblender_set_gamma_table): Updated sRGB ramps.

When we use finite approxination it is more appropriate to use the
actual values for the linear portion instead of the standard ones.

2022-08-16 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/common.c (utf8_next): Use more efficient algorithm.

2022-08-15 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftcommon.c (FTDemo_String_Set): Refactor.

2022-08-15 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftcommon.c (FTDemo_Make_Encoding_Tag): Refactor.

2022-08-11 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/gblender.c (gblender_set_gamma_table): Minor improvements.

2022-08-11 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftcommon.c (FTDemo_Draw_Header): Show non-trivial face index.

This is a useful hint if a file contains multiple faces.

2022-08-07 Alexei Podtelezhnikov <apodtele@gmail.com>

*

src/win32/grwin32.c: Cosmetic updates.

2022-08-06 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftgrid,ftmulti,ftstring,ftview] Document optional size.

* man/ftgrid.1, man/ftmulti.1, man/ftstring.1, man/ftview.1: Update.
* src/ftgrid.c, src/ftmulti.c, src/ftstring.c, src/ftview.c: Ditto.

2022-08-05 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftgrid,ftmulti,ftstring,ftview] Make the size optional.

* src/ftgrid.c (parse_cmdline), src/ftview.c (parse_cmdline),
src/ftstring.c (parse_cmdline), src/ftmulti.c (main): Fallback on
a default size if it is missing on the command line.

2022-07-30 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftgrid.c: Sync with freetype.

2022-07-30 Werner Lemberg <wl@gnu.org>

* src/ftlint.c (main): Check number of glyphs.

Problem reported by Marc Schönefeld <marc.schoenefeld@gmx.org>.

2022-07-30 Werner Lemberg <wl@gnu.org>

[ftgrid] Fix memory-related problems.

Reported by Marc Schönefeld <marc.schoenefeld@gmx.org>.

*
src/ftgrid.c (bitmap_scale): Limit bitmap size.
(grid_status_draw_outline): Handle errors in `FT_Get_Glyph`.

2022-07-11 Charlie Jiang <w@chariri.moe>

[meson] Add option to disable librsvg dependency.

As discussed in #14.

Currently, 'librsvg' is used to render OT-SVG glyphs. However, 'librsvg' is
far from simple to build as it requires tons of transitive dependencies,
especially on Windows.

Therefore we introducee a configuration option to switch 'librsvg' on or

off. This is trivial because the source code itself already honors a
`HAVE_LIBRSVG` macro.

* meson_options.txt: Add `librsvg` option (feature), defaulting to
`enabled`.

* meson.build: Honor the option above.

2022-06-28 Charlie Jiang <w@chariri.moe>

[ftinspect] Drop QMake, add CMake.

* src/ftinspect/CMakeLists.txt: Add CMake build file for `ftinspect`.

* src/ftinspect/ftinspect.pro: Remove QMake build file.

Fixes #11

2022-06-28 Charlie Jiang <w@chariri.moe>

* /src/ftinspect/.gitignore: Ignore
Visual Studio specific files.

This is for `ftinspect`.

2022-06-28 Charlie Jiang <w@chariri.moe>

[ftinspect] Eliminate compile warnings.

* src/ftinspect/engine.hpp: Use `uintptr_t` as type for `faceCounter`
instead of `int`.

* src/ftinspect/engine.cpp: Changing all casts to use `FTC_IDType` type
(=`uintptr_t`) we defined.

Fixes #10.

2022-06-21 Hugh McMaster <hugh.mcmaster@outlook.com>

* Makefile: Append CPPFLAGS to CFLAGS so that they work in `graph`.

2022-06-06 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftcommon.c (FTDemo_Hinting_Engine_Change): Minor fix.

2022-06-05 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftbench.c (main): Minor.

2022-06-04 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftbench] Minor tweaks.

* builds/windows/msvc/ftbench.vcxproj: Do not depend on "common.c".
* src/ftbench.c: Do not include "common.h".
(main): Minor output optimization.

2022-06-03 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftdump.c (main):
Report filename.

2022-06-03 Alexei Podtelezhnikov <apodtele@gmail.com>

* subprojects/zlib.wrap: Update to zlib version 1.2.12.

2022-06-02 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftbench.c (main): Indicate memory-mapped fonts.

2022-05-26 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftbench] Create more concise and informative header.

* src/ftbench.c (header): Report face, driver, and target info.
Borrowed from `FTDemo_Get_Info`.
(main): Remove and rearrange output.

2022-05-25 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftbench.c (main): Output spaces before units.

2022-05-24 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftbench.c (main): Reformat output (cont'd).

2022-05-24 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftbench.c (main): Reformat output.

2022-05-24 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftbench.c (main): Check the number of glyphs.

Fixes #8.

2022-05-24 Alexei Podtelezhnikov <apodtele@gmail.com>

*
graph/win32/grwin32.c: Do not include <string.h>, formatting.

2022-05-23 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph/win32] Simplify icon setting further.

* graph/win32/grwin32.c (gr_win32_surface_set_icon): Use `CreateIcon`.

2022-05-23 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph/win32] Simplify icon setting.

* graph/win32/grwin32.c (gr_win32_surface_set_icon): Use basic
`CreateBitmap` for color, which seems to work.

2022-05-22 Alexei Podtelezhnikov <apodtele@gmail.com>

This reverts commit 454797135a90.

* graph/win32/grwin32.c (gr_win32_surface_refresh_rectangle): Revert
to fix the 24 bpp rectangle invalidation.

2022-05-19 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/win32/grwin32.c (gr_win32_surface_refresh_rectangle): Minor move.

2022-05-01 Werner Lemberg <wl@gnu.org>

* Version 2.12.1 released.
==========

Tag sources with 'VER-2-12-1'.

* README: Updated.
* meson.build: Updated.
* man/*.1: Updated.

2022-04-09
Charlie Jiang <w@chariri.moe>

[windows] Fix IME freezing window, don't filter messages by HWND

* graph/win32/grwin32.c (Window_ThreadProc): Remove HWND filter of GetMessage call

2022-04-08 Charlie Jiang <w@chariri.moe>

[windows] Fix some GUI keys not working

* graph/win32/grwin32.c (gr_win32_surface_listen_event, Message_Process): Switch to custom Windows messaage ID.

2022-03-31 Werner Lemberg <wl@gnu.org>

* Version 2.12.0 released.
==========

Tag sources with 'VER-2-12-0'.

* README: Updated.
* meson.build: Updated.
* man/*.1: Updated.

* Makefile (dist): Generate `ChangeLog` entries for all commits since
version 2.11.0 (when we stopped creating this file manually).

2022-03-31 Werner Lemberg <wl@gnu.org>

Fix clang++ warnings.

* src/ftsdf.c (event_font_update, write_header, draw), src/rsvg-port.c
(rsvg_port_preset_slot): Add or remove casts.

2022-03-24 Anuj Verma <anuj@womp.xyz>

[ftsdf] Fix segmentation fault.

* src/ftsdf.c (draw):
Use integer to avoid overflow while reverse
looping `j`.

2022-02-19 Werner Lemberg <wl@gnu.org>

/: Replace header macros with file names.

We already did the same some time ago in the FreeTye library.

Also remove redundant inclusion of some header macros.

2022-02-19 Ben Wagner <bungeman@chromium.org>

[ftview] Handle foreground COLR.

* src/ftview.c (Render_All): handle 0xFFFF `layer_color_idx` without

crashing.

2022-02-11 Werner Lemberg <wl@gnu.org>

[ftdump] Emit PS dictionary info for option `-n` if available.

* src/ftdump.c: Include `FT_TYPE1_TABLES_H`.
(Print_Array): New function.
(Print_FontInfo_Dictionary, Print_FontPrivate_Dictionary): New functions.
(main): Use them.
(usage): Updated.

2022-02-06 Alexei Podtelezhnikov <apodtele@gmail.com>

[builds/windows] Add `rsvg` port to project files.

* builds/windows/msvc/ftgamma.vcxproj: Updated.
* builds/windows/msvc/ftgrid.vcxproj: Updated.
* builds/windows/msvc/ftstring.vcxproj: Updated.
* builds/windows/msvc/ftview.vcxproj:
Updated.

2022-02-05 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftgrid] Minor tweaks.

* src/ftgrid.c (scale_bitmap): Take the buffer immediately.
(DO_BITMAP): Minor.
* src/ftcommon.c (FTDemo_Glyph_To_Bitmap): Clarify ownership.

2022-02-05 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftgrid.c (bitmap_scale): Implement BGRA scaling.

2022-02-05 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftgrid] Implement embedded bitmap toggle.

* src/ftgrid.c (grid_status_draw_outline): Undo the last change.
(Process_Event): Implement the embedded bitmap toggle and shift
some other toggle keys for consistency.
(event_help, main): Updated.

2022-02-01 Werner Lemberg <wl@gnu.org>

src/ftgrid.c (grid_status_draw_outline): Enable embedded bitmaps.

Previously, bitmap-only fonts were displayed but bitmap strikes were not.

2022-01-30 Werner Lemberg <wl@gnu.org>

src/ftinspect/ftinspect.pro (PKGCONFIG, LIBS): Add 'librsvg'.

2022-01-28 Werner
Lemberg <wl@gnu.org>

* meson.build: We need 'librsvg' version 2.46.0 or newer.

Older versions don't have function `rsvg_handle_get_intrinsic_dimensions`.

2022-01-26 Werner Lemberg <wl@gnu.org>

* meson.build: Fix typo.

2022-01-25 Werner Lemberg <wl@gnu.org>

Use 'librsvg' conditionally.

* src/ftcommon.c, src/rsvg-port.c: Guard SVG code with `HAVE_LIBRSVG`.

2022-01-23 Werner Lemberg <wl@gnu.org>

* src/ftcommon.c (FTDemo_New): Update to recent FreeType change.

2022-01-23 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Reshuffle some headers.

* graph/grobjs.c, graph/grobjs.h, graph/win32/grwin32.c: Updated.

2022-01-20 Moazin Khatti <moazinkhatri@gmail.com>

Prototype SVG support.

* src/rsvg-port.c, src/rsvg-port.h: New files, providing SVG rendering hooks
using the 'librsvg' library.

* src/ftcommon.c: Include `FT_OTSVG_H` and `rsvg-port.h`.
(FTDemo_New): Set SVG renderer hooks.
(FTDemo_Glyph_To_Bitmap): Also accept SVG glyph format.

* Makefile:
Update for recent FreeType changes; the library's `configure`
script now tests for 'librsvg'.
(COMPILE): Updated to use `FT_DEMO_CFLAGS` for normal compilation, and
manually adding flags for 'librsvg' otherwise.

Update all users.
(LINK_LIBS): Updated to use `FT_DEMO_LDFLAGS` for normal compilation, and
manually adding flags for 'librsvg' otherwise.
(COMMON_OBJ): Updated
(rsvg-port): New rule.

* meson.build (librsvg_dep): New dependency.
(ftcommon_lib): Add `rsvg-port.*` files and update dependencies.

2022-01-16 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph/win32] Fix up the key event handling.

* graph/win32/grwin32.c (key_translators): Do not translate the keys
that Windows translates. We used to by-pass the system.
(gr_win32_surface_listen_event): Move custom translations from here...
(Message_Process): ... to here, which reduces the message posting.

2022-01-12 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftgrid] Use lighter gridlines to improve readability.

*
src/ftgrid.c (grid_status_colors, grid_status_alt_colors): Updated.

2022-01-11 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftgrid.c (write_header): Show page with glyph number or code.

2022-01-11 Werner Lemberg <wl@gnu.org>

Update all copyright notices.

2022-01-11 Werner Lemberg <wl@gnu.org>

* subprojects/libpng.wrap, subprojects/zlip.wrap: Update from upstream.

2022-01-09 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/gblblit.c (gblender_blit_init): Remove double dereferencing.

2022-01-08 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Fix negative pitch issues.

Some cropping issues were identified by forcing unusual negative
pitch in glyphs. This fixes those issues and removes some unused
fields.

* graph/gblblit.c (GBlenderBlitRec): Remove unused fields.
* graph/gblblit.c (graph/gblblit.c): Revise negative pitch code.
* graph/gblender.h (gblender_dump_stats): Remove macro semicolon.

2022-01-07 Werner Lemberg <wl@gnu.org>

* src/ftcommon.c
(icon_span): Fix undefined left-shift behaviour.

2022-01-07 Werner Lemberg <wl@gnu.org>

graph/grobjs.c (grFindColor): Fix undefined left-shift behaviour.

2022-01-01 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph/win32] Consolidate resizing calls.

Suggested by Dmitry Timoshkov.

* graph/win32/grwin32.c (gr_win32_surface_listen_event): Purge
obsolete WM_RESIZE.

2021-12-31 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/win32/grwin32.c: Logging and formatting clean-ups.

2021-12-31 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph/win32] Implement smooth resizing.

The window creation and the message loop has to be put in a separate
thread in order to achieve smooth resizing. Othrewise, the modal
loop cannot be interrupted to redraw the canvas. The main thread
also has a loop to receive the reposted messages, to update the
canvas and send WM_PAINT back via UpdateWindow. After this update
the win32 resizing feels similar to the X11 resizing.

*
graph/win32/grwin32.c (grWin32Surface): Store the host thread id.
(gr_win32_surface_init): Spin off `CreateWindow` from here...
(Window_ThreadProc): ... to here and run the window message loop.
(Message_Process): Updated to repost messages to the host thread.
(gr_win32_surface_listen_event): Run the host thread message loop.

2021-12-31 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/win32/grwin32.c (gr_win32_surface_init): Check allocations.

2021-12-31 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftcommon.c (FTDemo_Done): Flush stdout for mintty.

2021-12-31 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph/win32] Improve surface initialization.

* graph/win32/grwin32.c (gr_win32_surface_init): Allocate bitmaps by
calling `gr_win32_surface_resize`.

2021-12-11 Ben Wagner <bungeman@chromium.org>

[ftbench] Free stroker when done.

LeakSanitizer reported that the stroker object was being leaked.
Properly free it with FT_Stroker_Done. (!14)

* src/ftbench.c
(test_stroke): Free stroker.

2021-12-02 Werner Lemberg <wl@gnu.org>

* Version 2.11.1 released.
==========

Tag sources with 'VER-2-11-1'.

* README: Updated.
* meson.build: Updated.
* man/*.1: Updated.

* ChangeLog: Renamed to ...
* ChangeLog.old: ... this.

* Makefile (version_tag, CHANGELOG_SCRIPT): New variables.
(dist): Generate `ChangeLog` file with all commits since last release.

2021-11-30 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Minor clean-ups.

* graph/gblender.c (gblender_reset_key): Remove unnecessary masks.
* graph/gblany.h (*vrgb*, *vbgr*): Remove redundant casts.

2021-11-25 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/gblblit.c (gblender_blit_init): Remove dummy fallback.

2021-11-24 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/*.*: Remove legacy blitter ghosts.

2021-11-24 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Revise function arguments.

* graph/gblblit.c (grSetTargetGamma, grSetTargetPenBrush):
Input
surface instead of bitmap as more appropriate.
* graph/graph.h (grSetTargetGamma, grSetTargetPenBrush): Update
decarations.
* graph/grdevice.c, src/ftcommon.c, src/ftdiff.c: Update callers.

2021-11-22 Werner Lemberg <wl@gnu.org>

Whitespace, typos, other minor issues.

2021-11-22 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftview] Show empty charmaps if error, including UVS.

* src/ftcommon.c (get_last_char): Call `FT_Set_Charmap` and handle
its errors effectively setting `num_indices` to 0.
* src/ftview.c (event_index_change, event_encoding_change): Updated.

2021-11-22 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftdump.c (Print_Charmaps): Do not iterate UVS charmaps.

2021-11-20 Werner Lemberg <wl@gnu.org>

* graph/*: Fix clang compilation warnings.

Add casts for signed vs. unsigned issues.

2021-11-20 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftview] Report the last shown index or charcode.

Together with the index or charcode
limit, it gives a sense of the
portion of the font under review. This is reported at the bottom-
left corner.

* src/ftview.c (main): Pass the last shown index instead of error.
(Render_*): Return the last shown index, charcode, or -1.
(write_header): Receive and display the last shown index or charcode.

2021-11-18 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftcommon.c (get_last_char): Speed up sparse convergence.

2021-11-17 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftview] Report the last available index or charcode.

* src/ftcommon.c (get_last_char): Implement the binary search for
the last charcode using `FT_Get_Next_Char`.
(FTDemo_Set_Current_Font): Set the number of indices accordingly.
* src/ftview.c (write_header): Display the last charcode or index.

2021-11-17 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Complete removal of legacy blitter.

This switches the remaing monochrome rendering of headers to the main
blender and deletes the
legacy blitter. The old blitter can handle
exotic target surfaces like monochrome or 4-bit bitmaps. Anything
beyond the alpha blender can do.

* graph/grfont.c (grWriteCellChar, grWriteCellString): Switch from
`grBlitGlyphToBitmap` to `grBlitGlyphToSurface`.
* graph/grblit.[ch]: Delete files.
* graph/graph.h, graph/grconfig.h: Remove references.
* graph/rules.mk, graph/meson.build, vms_make.com,
builds/windows/msvc/migs.vcxproj: Update build scripts.

2021-11-15 Werner Lemberg <wl@gnu.org>

* src/*: Fix clang warnings.

All of them are minor and belong to one of the following categories:

* signedness casts
* corrected `printf` signatures
* missing `static` keyword for local functions

2021-11-15 Werner Lemberg <wl@gnu.org>

[ftbench] Fix clang warnings.

* src/ftbench.c (first_index, last_index): Make these two global variables
signed, to be of the same type as `incr_index` (which can be positive or
negative).
Update all related code.

2021-11-15 Alexei Podtelezhnikov
<apodtele@gmail.com>

* graph/win32/grwin32.c (gr_win32_surface_set_icon): Add background.

2021-11-15 Alexei Podtelezhnikov <apodtele@gmail.com>

Minor.

2021-11-12 Alexei Podtelezhnikov <apodtele@gmail.com>

[builds/windows] Use `props` to share dependencies.

Merges !12 from @ubawurinna.

* builds/windows/msvc/ft2demos.props: Consolidate FreeType dependencies.
* builds/windows/msvc/*.vcxproj: Updated.

2021-10-31 Alexei Podtelezhnikov <apodtele@gmail.com>

[builds/windows] New project and solution files.

These files can be used to build selected FreeType demo programs
using Microsoft Visual C++. FreeType should be compiled in the
parallel folder with freetype.lib available in freetype\objs\
for compilation. The executables will be delivered into
freetype-demos\bin\ and expect freetype.dll there as well.

* builds/windows/msvc/ft2demos.sln: Solution file.
* builds/windows/msvc/*.vcxproj: Project files.

2021-10-26 Alexei Podtelezhnikov <apodtele@gmail.com>

*
Makefile: Remove obsolete rule.

2021-10-26 Alexei Podtelezhnikov <apodtele@gmail.com>

* Makefile: Reduce FT2_BUILD_FREETYPE usage

Public macro FT_FACE_DRIVER_NAME utilized in d01c79af9838 makes
FT2_BUILD_LIBRARY unnecassary in most cases.

* src/ftinspect/ftinspect.pro: Ditto.

2021-10-23 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/grblit.c (grBlitClean): Fix warnings.

2021-10-22 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/grblit.c (grGetSaturation, grBlitClean): Dead fixes.

2021-10-22 Alexei Podtelezhnikov <apodtele@gmail.com>

Minor.

2021-10-22 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/grblit.c (grGetSaturation): Fix return value.

2021-10-22 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Avoid unnecessary memory zeroing.

* graph/x11/grx11.c (gr_x11_surface_init): Call `malloc` explicitly.
* graph/grblit.c (grGetSaturation, grGetConversion): Call `malloc`
and `memset` explicitly even though this code is unused.

2021-10-18
Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/grdevice.c (grWriteSurface{Char,String}): Use GR_FONT_SIZE.

2021-10-18 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Do not zero a new bitmap.

The `grNewBitmap` function is mostly used to allocate and resize
canvas, which is shortly flooded with a background color. There is
no need to zero it.

* graph/grobjs.c (grNewBitmap): Always call `realloc` directly,
which does not initialize the buffer.
* graph/grobjs.c (grNewBitmap): Update description.

2021-10-13 Hugh McMaster <hugh.mcmaster@outlook.com>

graph/x11/rules.mk: Use standard pkg-config variable naming

2021-10-13 Hugh McMaster <hugh.mcmaster@outlook.com>

graph/x11/rules.mk: Use pkg-config to find the X11 headers and library

2021-10-07 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftinspect/engine/engine.cpp: Include FT_MODULE_H.

Fixes #2.

2021-10-05 Jouk Jansen <joukj@hrem.stm.tudelft.nl>

* vms_make.com: Updated to include
more demos.

2021-10-03 Alexei Podtelezhnikov <apodtele@gmail.com>

Synchronize with FreeType.

* src/ftcommon.c (FTDemo_Hinting_Engine_Change, FTDemo_Get_Info):
Use new public `FT_FACE_DRIVER_NAME` macro.
* src/ftdump.c (Print_Type): Ditto.
* src/ftdiff.c (process_event, render_state_draw): Ditto.
* src/ftinspect/engine/engine.cpp (loadFont): Ditto.

2021-10-01 Jouk Jansen <joukj@hrem.stm.tudelft.nl>

* graph/grtypes.h [__VMS]: Accomodate non-compliant C99.

2021-10-01 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/win32/grwin32.c (gr_win32_device_init): Use neutral background.

2021-09-30 Jouk Jansen <joukj@hrem.stm.tudelft.nl>

* vms_make.com, src/mlgetopt.h [VMS]: Updated.

2021-09-30 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/grtypes.h: Don't give up on <stdint.h>.

2021-09-16 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftdump.c (Print_Name): Reformat font revision.

2021-09-10 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftdump.c

(Print_Name): Ignore negative pre-epoch time.

2021-09-09 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftdump.c (Print_Name): Avoid negative pre-epoch time.

2021-09-09 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftdump.c (Print_Programs, Print_Glyfs): Handle no-data glyphs.

2021-09-09 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftdump.c (Print_Programs, Print_Glyfs): Generalize messages.

2021-08-26 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftstring] Loop through a custom string if present.

* src/ftstring.c (Sample): Use the initial pointer for a custom string.
(parse_cmdline): Assing the pointer here if any.
(event_text_change): Loop through the pointer if set.
(main): Minor tweak.

2021-07-24 Werner Lemberg <wl@gnu.org>

* meson.build: Build `ttdebug`.

Problem reported by Andreas Radke <andreas.radke@mailbox.org>.

2021-07-24 Werner Lemberg <wl@gnu.org>

* meson.build: Sort executable rules.

Found in path(s):
* /opt/cola/permits/2134360434_1727421213.699977/0/freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/ChangeLog
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************
*
*  grwin32.c  graphics driver for Win32 platform
*
*  This is the driver for displaying inside a window under Win32,
*  used by the graphics utility of the FreeType test suite.
*
*  Written by Antoine Leca.
*  Copyright (C) 1999-2023 by
*  Antoine Leca, David Turner, Robert Wilhelm, and Werner Lemberg.
```

```
*
*  Borrowing liberally from the other FreeType drivers.
*
*  This file is part of the FreeType project, and may only be used
*  modified and distributed under the terms of the FreeType project
*  license, LICENSE.TXT. By continuing to use, modify or distribute
*  this file you indicate that you have read the license and
*  understand and accept it fully.
*
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/2134360434_1727421213.699977/0/freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/graph/win32/grwin32.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************
*
*  grbatch.c  Batch processing driver.
*
*  This driver maintains the image in memory without displaying it,
*  used by the graphics utility of the FreeType test suite.
*
*  Copyright (C) 1999-2023 by
*  David Turner, Robert Wilhelm, and Werner Lemberg.
*
*  This file is part of the FreeType project, and may only be used
*  modified and distributed under the terms of the FreeType project
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*  this file you indicate that you have read the license and
*  understand and accept it fully.
*
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/2134360434_1727421213.699977/0/freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/graph/batch/grbatch.c
No license file was found, but licenses were detected in source scan.

```
/*
* This is an OpenSSL-compatible implementation of the RSA Data Security, Inc.
* MD5 Message-Digest Algorithm (RFC 1321).
*
* Homepage:
* http://openwall.info/wiki/people/solar/software/public-domain-source-code/md5
*
* Author:
* Alexander Peslyak, better known as Solar Designer <solar at openwall.com>
```

```
*
* This software was written by Alexander Peslyak in 2001.  No copyright is
* claimed, and the software is hereby placed in the public domain.
* In case this attempt to disclaim copyright and place the software in the
* public domain is deemed null and void, then the software is
* Copyright (c) 2001 Alexander Peslyak and it is hereby released to the
* general public under the following terms:
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted.
*
* There's ABSOLUTELY NO WARRANTY, express or implied.
*
* See md5.c for more information.
*/
```

Found
 in path(s):
* /opt/cola/permits/2134360434_1727421213.699977/0/freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/src/md5.h
No license file was found, but licenses were detected in source scan.

```
/*********************************************************************
*
*  grx11.h  graphics driver for X11 (header)
*
*  This is the driver for displaying inside a window under X11,
*  used by the graphics utility of the FreeType test suite.
*
*  Copyright (C) 1999-2023 by
*  Antoine Leca, David Turner, Robert Wilhelm, and Werner Lemberg.
*
*  This file is part of the FreeType project, and may only be used
*  modified and distributed under the terms of the FreeType project
*  license, LICENSE.TXT. By continuing to use, modify or distribute
*  this file you indicate that you have read the license and
*  understand and accept it fully.
*
*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/2134360434_1727421213.699977/0/freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/graph/x11/grx11.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*
* rsvg-port.h
```

```
*
*   Librsvg based hook functions for OT-SVG rendering in FreeType
*   (headers).
*
* Copyright (C) 2022-2023 by
* David Turner, Robert Wilhelm, Werner Lemberg, and Moazin Khatti.
*
* This file is part of the FreeType project, and may only be used,
* modified, and distributed under the terms of the FreeType project
* license, LICENSE.TXT.  By continuing to use, modify, or distribute
* this file you indicate that you have read the license and
* understand and accept it fully.
*
*/
```

Found in path(s):
* /opt/cola/permits/2134360434_1727421213.699977/0/freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/src/rsvg-port.h
No license file was found, but licenses were detected in source scan.

```
/*
*  This is a cheap replacement for getopt() because that routine is not
*  available on some platforms and behaves differently on other platforms.
*
*  This code is hereby expressly placed in the public domain.
*  mleisher@crl.nmsu.edu (Mark Leisher)
*  10 October 1997
*/
```

Found in path(s):
* /opt/cola/permits/2134360434_1727421213.699977/0/freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/src/mlgetopt.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*
* rsvg-port.c
*
*   Librsvg-based hook functions for OT-SVG rendering in FreeType
*   (implementation).
*
* Copyright (C) 2022-2023 by
* David Turner, Robert Wilhelm, Werner Lemberg, and Moazin Khatti.
*
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* modified, and distributed under the terms of the FreeType project
* license, LICENSE.TXT.  By continuing to use, modify, or distribute
* this file you indicate that you have read the license and
```

```
* understand and accept it fully.
*
*/
```

Found in path(s):
* /opt/cola/permits/2134360434_1727421213.699977/0/freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/src/rsvg-port.c
No license file was found, but licenses were detected in source scan.

```
/*********************************************************************
*
*  grbeos.c  graphics driver for BeOS platform.            0.1
*
*  This is the driver for displaying inside a window under BeOS,
*  used by the graphics utility of the FreeType test suite.
*
*  Written by Michael Pfeiffer.
*  Copyright (C) 2001-2023 by
*  Michael Pfeiffer
*
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*  license, LICENSE.TXT. By continuing to use, modify or distribute
*  this file you indicate that you have read the license and
*  understand and accept it fully.
*
*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/2134360434_1727421213.699977/0/freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/graph/beos/grbeos.cpp
No license file was found, but licenses were detected in source scan.

```
# and distributed under the terms of the FreeType project license,
```

Found in path(s):
* /opt/cola/permits/2134360434_1727421213.699977/0/freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/src/ftinspect/meson.build
* /opt/cola/permits/2134360434_1727421213.699977/0/freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/meson.build
* /opt/cola/permits/2134360434_1727421213.699977/0/freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/meson_options.txt
* /opt/cola/permits/2134360434_1727421213.699977/0/freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/graph/meson.build
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```
/*********************************************************************
*
```

```
*  grmac.c  graphics driver for MacOS platform.
*
*  This is the driver for displaying inside a window under MacOS,
*  used by the graphics utility of the FreeType test suite.
*
*  Largely written by Just van Rossum, but derived from grwin32.c.
*  Copyright (C) 1999-2023 by
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*  David Turner, Robert Wilhelm, and Werner Lemberg.
*
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*
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/2134360434_1727421213.699977/0/freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/graph/mac/grmac.c
No license file was found, but licenses were detected in source scan.

```
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```

**********/

Found in path(s):
* /opt/cola/permits/2134360434_1727421213.699977/0/freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/mac/getargv.c

1.4714 liblocale-gettext-perl 1.07-6ubuntu5

1.4714.1 Available under license :

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Locale::gettext
version 1.07

This is a perl5 module quickly written to gain access to
the C library functions for internatialization. They
work just like the C versions.

As of version 1.04, an object oriented interface more
suitable to native Perl programs is available.

Locale::gettext is Copyright 1996..2005 by Kim Vandry
<vandry@TZoNE.ORG>. All rights reserved.

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of either the GNU General Public License or the Artistic License, as
specified in the Perl README file.

Changes

1.07 Fix test failures caused by $LANGUAGE being set

1.06 Bugfix: #104667 Makefile.PL libaries need to be listed after .o files
 Bugfix: #104668 ensure availability of locale API, correct typo in documentation
 Add META.yml (Fixes #91921)

1.05 Bugfix: [cpan #13042] useless #ifdef should be #if
 Bugfix: [cpan #13044] make test fails when using POSIX locale

1.04 Add several
 functions provided by the GNU gettext library
 Create object oriented interface

1.03 Fix error in README file

1.02 Include a License

1.01 Changed from "gettext" to "Locale::gettext" (i.e.
 moved under Locale::) on the advice of several
 people

 Small "lint" fix from schwern@starmedia.net

1.00 Initial version

TODO

A TIEHASH interface

Here's a quick tutorial.

Note that your vendor's implementation of these functions
may be a bit different, but I think that in general these
are quite standard POSIX functions.

Kim Vandry <vandry@TZoNE.ORG>
Mlink Internet <http://www.Mlink.NET>
July 1996

INTERNATIONALIZING YOUR PROGRAM

Step 1

If you've already written your code, you need to
wrap the gettext() function around all of the
text strings. Needless to say, this is much easier if
you do it while you write.

```
# create object for oo interface
my $d = Locale::gettext->domain("my_program");

print "Welcome to my program\n";

# oo
print $d->get("Welcome
 to my program"), "\n";

# traditional
print gettext("Welcome to my program"), "\n";
```

Note that you probably don't want to include that newline

in the gettext() call, nor any formatting codes such as
HTML tags. The argument to gettext() is the text string
in the default language or locale. This is known as the
C locale and should probably be usually English.

Step 2

Do the apropriate initializations at the beginning of your
program:

```
#
use POSIX;     # for setlocale()
use Locale::gettext;
#
# The following statement initializes the locale handling
# code in the C library. Normally, it causes it to read
# in the environment variables that determine the current
# locale.
#
# The first parameter is the category you would
# like to initialize locale information for. You can use
# LC_ALL for this, which will set locale information for
# all categories, including LC_CTYPE, LC_TIME, LC_NUMERIC,
# etc..
#
# I recommend that you set only LC_MESSAGES (text strings)
# or LC_CTYPE (character
 sets) and LC_TIME (time
# conventions) too at most. You may find that if you set
# LC_NUMERIC or some other categories, you will start
# outputting decimal numbers with strange thousand separators
# and decimal points and they will be unparseable in
# other countries.
#
# The second parameter is the locale name. If it is an
# empty string, then this information will be fetched from
# environment variables.
#
# Note that setlocale() will cause every part of your
# program to start operating in the new, non default (C)
# locale, including C library functions. So don't be
# surprised if POSIX::ctime returns "Montag, 22. Juli 1996,
# 12:08:25 Uhr EDT" instead of "Mon Jul 22 12:08:25 EDT 1996"
# If you set LC_TIME or LC_ALL using setlocale().
#
setlocale(LC_MESSAGES, "");
#
```

```
# Decide on a unique identifier that will distinguish your
# program's text strings in the LC_MESSAGES database. This
# would usually be the name of your program
#
# By default, locale information is found in OS dependant
#
 system directories such as /usr/lib/locale, or any directory
# found in the $PATH-like environment variable $NLSPATH.
# I recommend that you do _not_ install files in /usr. If
# your program is installed in a directory tree such as
# /opt/my_package_name/{bin,man,lib,etc}, then you could
# use /opt/my_package_name/locale to store locale information
# specific to your program, or you could put in somewhere
# in /usr/local/lib.
#
# Wherever you put it, if it is not one of the default
# directories, you will need to call bindtextdomain() to
# tell the library where to find your files. The first
# parameter is your database's identifier that you chose
# above.
#
# oo interface:

my $d = Locale::gettext->domain("my_domain");
$d->dir("/opt/my_package_name/locale");

# traditional interface:
bindtextdomain("my_domain", "/opt/my_package_name/locale");
textdomain("my_domain");

# That's it for the initializations
```

Step 3

Test to see if your program still works after all these
 mods :-)

Step 4

TRANSLATE!

Read msgfmt(1) for details on this. Basically, for each locale
other than the default, you need to create a file like this:
(Note: I do not speak German, I'm making an attempt here :-)
Call this file with the .po extension.

```
--BEGIN
domain "my_domain"

msgid  "Welcome to my program"
msgstr "Willkommen in mein Program"

msgid  "Help"
msgstr "Hilfe"
--END
```

The "msgid" parameter must match exactly the argument to the gettext() function, and "msgstr" is the corresponding translation.

You can use the xgettext(1) utility to initially construct this file from all of the gettext() calls in your source code. It was designed for C but it works OK with perl.

Step 5

Compile the .po file

```
$ msgfmt my_file.po
```

This will create a file called my_domain.mo (default messages.mo) which you should place in the <locale>/LC_MESSAGES/my_domain.mo subdirectory of either a system default directory, a directory in $NLSPATH, or the directory argument to bindtextdomain().
Replace
 <locale> with the name of the locale for which this file is created.

For example:

```
$ mkdir -p /opt/my_package/locale/de/LC_MESSAGES
$ mkdir -p /opt/my_package/locale/fr/LC_MESSAGES
$ cd /path/to/my/source/code
$ cd de
$ msgfmt my_domain.po
$ mv my_domain.mo /opt/my_package/locale/de/LC_MESSAGES
$ cd ../fr
$ msgfmt my_domain.po
$ mv my_domain.mo /opt/my_package/locale/fr/LC_MESSAGES
```

Step 6

Test it out

```
$ my_program
Welcome to my program
$ LANG=fr my_program
Bienvenue à mon programme
$ LANG=de my_program
Willkommen in mein Program
```

(Or, set only the messages category instead of the whole locale)

```
$ LC_MESSAGES=fr
$ export LC_MESSAGES
$ my_program
Bienvenue à mon programme
```

Found in path(s):
* /opt/cola/permits/2134359543_1722972696.6335032/0/liblocale-gettext-perl-1-07-orig-1-tar-gz/Locale-gettext-1.07/README
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```
---
abstract: 'Perl bindings for POSIX i18n gettext functions'
author:
 - 'Kim Vandry <vandry.ORG>'
build_requires:
 ExtUtils::MakeMaker: 0
configure_requires:
 ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.66, CPAN::Meta::Converter version 2.120921'
license: perl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: 1.4
name: Locale-gettext
no_index:
 directory:
   - t
   - inc
requires: {}
resources:
 license: http://dev.perl.org/licenses/
 repository: https://github.com/vandry/Perl-Locale-gettext
version: 1.07
```


Found in path(s):
* /opt/cola/permits/2134359543_1722972696.6335032/0/liblocale-gettext-perl-1-07-orig-1-tar-gz/Locale-gettext-1.07/META.yml

1.4715 libpciaccess 0.17-3build1

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1.4716 libxshmfence 1.3-1build5

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1.4717 gawk 5.2.1-2build3

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1.4718 lm-sensors 3.6.0-9build1

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1.4720 cracklib 2.9.6-5.1build2

1.4720.1 Available under license :

This is the Debian GNU/Linux prepackaged version of the GNU compiler collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C, Objective-C++, and Modula-2 compilers, documentation, and support libraries. In addition, Debian provides the gm2 compiler, either in the same source package, or built from a separate same source package. Packaging is done by the Debian GCC Maintainers <debian-gcc@lists.debian.org>, with sources obtained from:

ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)
svn://gcc.gnu.org/svn/gcc/ (for prereleases)
ftp://sourceware.org/pub/newlib/ (for newlib)
git://git.savannah.gnu.org/gm2.git (for Modula-2)

The current gcc-13 source package is taken from the git gcc-13-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

Language	Compiler package	Library package	Documentation
Ada	gnat-13	libgnat-13	gnat-13-doc
C	gcc-13		gcc-13-doc
C++	g++-13	libstdc++6	libstdc++6-13-doc
D	gdc-13		

Fortran 95 gfortran-13 libgfortran5 gfortran-13-doc
Go gccgo-13 libgo0
Objective C gobjc-13 libobjc4
Objective C++ gobjc++-13
Modula-2 gm2-13 libgm2

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

Language	Sources	Development	Debugging	Position-Independent
C++			libstdc++6-13-dbg	libstdc++6-13-pic
D	libphobos-13-dev			

Additional packages include:

All languages:
libgcc1, libgcc2, libgcc4 GCC intrinsics (platform-dependent)
gcc-13-base
Base files common to all compilers
gcc-13-soft-float Software floating point (ARM only)
gcc-13-source The sources with patches

Ada:
libgnat-util13-dev, libgnat-util13 GNAT version library

C:
cpp-13, cpp-13-doc GNU C Preprocessor
libssp0-dev, libssp0 GCC stack smashing protection library
libquadmath0 Math routines for the __float128 type
fixincludes Fix non-ANSI header files

C, C++ and Fortran 95:
libgomp1-dev, libgomp1 GCC OpenMP (GOMP) support library
libitm1-dev, libitm1 GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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  gcc/tsystem.h, gcc/typeclass.h).
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- libdecnumber
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- libitm
- libssp
- libstdc++-v3
- libobjc
- libgfortran
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Developed by:

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libquadmath/math/isinfq.c:
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fmodq.c, frexpq.c, hypotq.c, ilogbq.c, isnanq.c, jnq.c, ldexpq.c,
logbq.c, modfq.c, nearbyintq.c,
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D:

gdc-13	GNU D Compiler
libphobos-13-dev	D standard runtime library

The D source package is made up of the following components.

The D front-end for GCC:

- d/*

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The DMD Compiler implementation of the D programming language:
- d/dmd/*

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The Zlib data compression library:
- d/phobos/etc/c/zlib/*

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The Phobos standard runtime library:
- d/phobos/*

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fontconfig/fc-case/CaseFolding.txt

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---

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```
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*/
```

---

fontconfig/src/fcfoundry.h

```
/*
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*/

---

fontconfig/src/fcmd5.h

```
/*
* This code implements the MD5 message-digest algorithm.
* The algorithm is due to Ron Rivest.  This code was
* written by Colin Plumb in 1993, no copyright is claimed.
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*
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* with every copy.
*
* To compute the message digest of a chunk of bytes, declare an
* MD5Context structure, pass it to MD5Init, call MD5Update
 as
* needed on buffers full of bytes, and then call MD5Final, which
* will fill a supplied 16-byte array with the digest.
*/
```

---

fontconfig/src/fcmutex.h

```
/*
* Atomic int and pointer operations.  Originally copied from HarfBuzz.
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```

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*/

---
fontconfig/src/ftglue.[ch]

/* ftglue.c: Glue code for compiling the OpenType code from
*   FreeType 1 using only the public API of FreeType 2
*
* By David Turner, The FreeType Project (www.freetype.org)
*
* This code is explicitely put in the public domain
*
* ==
*
* the OpenType
 parser codes was originally written as an extension to
* FreeType 1.x. As such, its source code was embedded within the library,
* and used many internal FreeType functions to deal with memory and
* stream i/o.
*
* When it was 'salvaged' for Pango and Qt, the code was "ported" to FreeType 2,

```
* which basically means that some macro tricks were performed in order to
* directly access FT2 _internal_ functions.
*
* these functions were never part of FT2 public API, and _did_ change between
* various releases. This created chaos for many users: when they upgraded the
* FreeType library on their system, they couldn't run Gnome anymore since
* Pango refused to link.
*
* Very fortunately, it's possible to completely avoid this problem because
* the FT_StreamRec and FT_MemoryRec structure types, which describe how
* memory and stream implementations interface with the rest of the font
* library, have always been part of the public API, and never changed.
*
* What we do
 thus is re-implement, within the OpenType parser, the few
* functions that depend on them. This only adds one or two kilobytes of
* code, and ensures that the parser can work with _any_ version
* of FreeType installed on your system. How sweet... !
*
* Note that we assume that Pango doesn't use any other internal functions
* from FreeType. It used to in old versions, but this should no longer
* be the case. (crossing my fingers).
*
*  - David Turner
*  - The FreeType Project  (www.freetype.org)
*
* PS: This "glue" code is explicitely put in the public domain
*/
```

1.4730 sbsigntool 0.9.4-3.1ubuntu7

1.4730.1 Available under license :

sbsigntool - utilities for signing UEFI binaries for use with secure boot.

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1.4731 pinentry 1.2.1-3ubuntu5

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1.4733 tcpdump 4.99.4-3ubuntu4

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```
# -*- perl -*-

$testlist = [
  # This specific test fails on OpenBSD because the .pcap file uses DLT_RAW,
  # which OpenBSD treats as DLT_LOOP.
  {
     config_unset => 'IS_OPENBSD',
     name => 'heap-overflow-1',
     input => 'heap-overflow-1.pcap',
     output => 'heap-overflow-1.out',
     args   => '-v'
  },
];

1;
```

1.4734 make 4.3-4.1build2

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[2227][2244]CANAL DE NOTICIAS
[2253][2291]La semana pasada,|Steven Johnson, de 28 aos...
[2291][2318]y Stephanie Tramer, de 30 aos...
[2318][2335]fueron encontrados apaleados|en un bosque local.
[2338][2376]El principal sospechoso y residente|local de Dunwich, Jack Cain,
[2376][2408]a quien la Polica arrest 24 horas|despus del descubrimiento...
[2408][2434]de los cuerpos, se encuentra|actualmente en la Corte.
[2434][2465]Asistiendo a una audiencia de|preparacin para el juicio.
[2465][2482]S espera que la audiencia...
[2482][2498]que sea una especie de formalidad...
[2498][2517]donde se presentaran los hechos clave...
[2517][2541]y el acusado se declarar culpable.
[2543][2573]En caso de que esa declaracin|no sea culpable, como se espera,
[2573][2596]se fijar una fecha para el juicio.
[2609][2656]De ests 16 pualadas,|5 por s solas...
[2656][2674]hubieran sido fatales.
[2683][2697]Steve Johnson...
[2704][2749]recibi 13 pualadas,|principalmente
en el pecho.
[2759][2793]Sin embargo, hubo varias abrasiones|en las palmas...
[2793][2845]de sus manos...|Lo que sugiere heridas defensivas.
[2854][2895]El golpe fatal fue una|pualada en la aorta,
[2896][2931]el vaso sanguneo grande|que sale del corazn.
[2948][2954]Su Seora...
[2962][2994]debido a la naturaleza|atroz de este crimen,
[3003][3046]y las pruebas circunstanciales|contra el seor Cain...
[3053][3079]y su falta de coartada,
[3087][3123]hay suficientes|pruebas para enjuiciar.
[3129][3145]Algo ms que aadir?
[3149][3171]No, eso es todo, Su Seora.

[3242][3254]Seor Cain.
[3265][3302]Antes de proceder, debo informarle...
[3304][3345]por segunda vez que,|dados los gravsimos cargos...
[3345][3387]lo mejor para usted es|contratar a un asesor legal...
[3387][3399]en este asunto.
[3426][3441]Me representar a m mismo,|Su Seora.
[3441][3455]No tengo nada que ocultar.
[3468][3480]Como desee.
[3492][3513]Antes de que pasemos|a una declaracin...
[3532][3557]tiene alguna
prueba|que desee presentar?
[3561][3601]Qu contradiga lo que la|Fiscala ha presentado?
[3718][3731]No en este momento.
[3741][3765]Me gustara declararme inocente.
[3796][3808]Como desee.
[3919][3956]Podran ambos abogados|acercarse al estrado, por favor?
[4111][4148]La gravedad de este|crimen es evidente.
[4182][4206]Toda la evidencia recolectada...
[4206][4268]en contra del seor Cain se obtuvo|despus de un arresto ilegal.
[4312][4325]Orden en la sala!
[4359][4394]No tengo ms remedio que pedir|que se desestime el caso.
[4404][4433]Su Seora,|no puede dejar ir a este hombre.
[4439][4456]Es un peligro para todos nosotros.
[4461][4488]Entonces, quizs la Polica|debera haberle ledo sus derechos...
[4488][4503]cuando lo arrestaron.
[4525][4563]El registro del auto del seor Cain,|su casa, las entrevistas,
[4568][4601]todo esto es ahora|inadmisible como prueba.
[4604][4623]Este caso est desestimado.
[4624][4641]- Culpable!|- Ordeno que el acusado...
[4642][4656]sea liberado de forma inmediata.
[4656][4675]Asesino!
Asesinaste a mi hijo!
[4815][4837]No le leste sus derechos.
[4838][4857]Qu cojones es esto,|la hora del aficionado?
[4857][4886]Lo persegu.|Tenamos a la Polica armada afuera.
[4888][4924]En toda la conmocin slo|comet un error, de acuerdo?
[4925][4945]Claro que cometiste un error.
[4952][4989]Y mi hijo y la hermana de este|pobre chico no vern justicia.
[4991][5022]Escoria como Cain no mantendr|su nariz limpia por mucho tiempo.
[5022][5055]Cuando se pase de la raya,|yo estar ah para derribarlo.
[5062][5079]Crees que volver a matar?
[5087][5116]No lo s, pero es capaz de hacerlo.
[5119][5136]Bueno,|ahora todos estamos en peligro.
[5145][5163]Miren,|mantendr esta ciudad a salvo.
[5174][5184]S.
[5188][5209]Como el buen trabajo que|hiciste la primera vez.
[5209][5232]- Ahora vete a la mierda, Joe.|- Escucha!
[5235][5276]Si esa basura lastima a|alguien ms, rodarn cabezas.

[5276][5292]- Mira hombre...|- Cometiste...
[5292][5319]el mayor error de tu carrera aqu,|simple y llanamente.
[5319][5342]-
Quieres mi renuncia?|- La ofreces?
[5342][5371]- Tengo otra opcin?|- Siempre hay opciones, Frank.
[5374][5395]Hacer tu trabajo es una opcin.
[5408][5431]Cul es tu trabajo, Frank?|Puedes decirme eso?
[5451][5473]Respetar la ley,|mantener la ciudad a salvo.
[5473][5497]Mantn esta ciudad a salvo,|precisamente.
[5503][5524]Todos queramos|justicia en este caso.
[5524][5542]La ley no nos ha dado eso.
[5546][5575]Significa eso que el|deber de proteger a Dunwich...
[5575][5591]se va por la ventana?
[5601][5613]No.
[5625][5654]Johnny, dime hijo,|qu significa la justicia para ti?
[5685][5724]Quiero ver a Cain sufrir por|lo que le hizo a mi hermana.
[5739][5752]Qu hay de ti, Joe?
[5752][5787]Ningn padre debera|enterrar a su propio hijo.
[5797][5809]No es natural.
[5813][5847]Y ese pedazo de mierda merece|morir por lo que ha hecho!
[5871][5883]Estoy de acuerdo.
[5934][5948]Qu ests diciendo, hombre?
[5949][5977]Bueno, todos nosotros nos conocemos|desde hace mucho tiempo, Frank.
[5978][6008]Podr
ser el Alcalde de esta ciudad,|pero tambin soy tu amigo.
[6012][6032]Los amigos deberan ayudarse|mutuamente, no crees?
[6061][6072]Si.
[6084][6116]As que, voy a ayudarte a|salvar tu trabajo, Frank.
[6124][6141]Joe, Johnny...
[6159][6173]vamos a conseguirles justicia.
[6203][6228]Y cmo te propones hacer eso?
[6303][6315]Zombis.
[6331][6343]S.
[6347][6363]Son mis sirvientes.
[6394][6419]Este asesino del alma|se lleva a los hombres...
[6419][6434]de sus tumbas...
[6444][6462]para ser sus esclavos.
[6512][6536]Son instrumentos de terror...
[6536][6558]y ahora este demonio conspira...
[6559][6579]para poseer a una mujer.
[6639][6652]S, amo?
[6687][6711]Este asesino del alma|se lleva a los hombres...
[6711][6759]de sus tumbas...|Para ser sus esclavos...
[6838][6869]y ahora este demonio conspira|para poseer a una mujer.
[6913][6927]Qu bestial.
[7233][7255]Qu cojones es esto,|una
fiesta de Noche de Brujas?
[7268][7288]Es hora de pagar por|lo que hiciste, Cain.

[7323][7336]Tienes algo que decir?
[7355][7393]Despreciame y vers a un tonto.
[7398][7423]Resptame y vers a un Dios.
[7423][7461]Mrame directamente y|te vers a ti mismo.
[7483][7495]No soy como t.
[7503][7516]Ninguno de nosotros lo es.
[7521][7539]Aprieta el gatillo y|te vuelves culpable...
[7539][7554]de lo que me acusas.
[7559][7583]La pregunta que|tienen que hacerse es,
[7587][7609]pueden vivir con quitar una vida?
[7622][7637]No slo vivir con ello,
[7643][7671]me despertar sonriendo|todos los malditos das...
[7671][7683]sabiendo que te has ido.
[7691][7707]Eso traer a tu hijo de vuelta?
[7718][7723]Vete a la mierda!
[7882][7903]Tratan de humillarme?
[7922][7934]No.
[7944][7957]Estoy tratando de matarte.
[8003][8032]Hazlo, Johnny.|Hazlo por tu hermana.
[8038][8056]Hazlo!
[8337][8356]Traigan las palas.
[8554][8583]Esto no hace falta decirlo,|pero lo voy a decir de todos modos.
[8591][8619]Nunca hablaremos
de esto con nadie,|nunca.
[8632][8661]Si alguien pregunta,|Cain se fue de la ciudad.
[8670][8685]Todos estamos de acuerdo en eso?
[8702][8714]Si.
[8721][8733]Johnny?
[8774][8786]Qu?
[8809][8834]Nunca hablaremos de esto...
[8839][8858]a nadie en la vida.
[8868][8888]De acuerdo?
[8944][8956]De acuerdo.
[9034][9051]Has estado muy callado, Frank.
[9097][9127]Promteme que nunca le|dirs a nadie sobre esto.
[9133][9147]Mientras vivas.
[9165][9179]Quiero orte decirlo.
[9265][9277]Bien.
[9281][9296]Prometo no decirle a nadie...
[9296][9325]sobre esto,|durante el resto de mi vida.
[9471][9518]UN AO MS TARDE
[9699][9717]Ya hemos pasado un|minuto de la medianoche.
[9717][9736]Y es oficialmente el|da en que el velo...
[9736][9763]entre los vivos y los muertos|est en su punto ms bajo.
[9766][9801]Aqu WKB Dunwich y yo soy|Jennifer Hollister despidindose,
[9801][9822]queridos oyentes,|con esta clsica.
[9831][9845]Feliz Noche de Brujas.
[10493][10506]Cabrn.

[10522][10536]Maldito cabrn.
[10584][10605]Mentiste,
pedazo de mierda.
[10634][10653]No pude vivir con ello.
[11177][11225]La vida es slo un|sueo para los muertos.
[11348][11372]- Hola, pap.|- Buenos das.
[11373][11385]Te ves como el demonio.
[11394][11404]Gracias, lo necesitaba.
[11412][11444]- Te cuesta dormir?|- S, qu hay de nuevo?
[11448][11466]Quieres que te|prepare algo de comer?
[11472][11498]No, estar bien.|Tomar algo de camino al trabajo.
[11505][11512]Comida rpida?
[11518][11537]Vamos, pap, te preparar unos huevos.
[11549][11568]Eres demasiado buena conmigo,|lo sabas?
[11586][11594]Pens que lo habas dejado.
[11597][11609]Lo estoy intentando.
[11612][11639]No muy en serio|por lo que parece.
[11644][11666]Supongo va de la mano con|el estrs del trabajo.
[11678][11704]Vas a ir a la fiesta|de Noche de Brujas esta noche?
[11713][11727]No creo.
[11731][11742]Tal vez deberas hacerlo.
[11751][11769]Podra ayudarte a|desestresarte un poco.
[11775][11784]Trabajars esta noche?
[11794][11806]Estoy libre.
[11814][11833]Estaba
pensando que|podra ir a la fiesta.
[11844][11856]Podra ser divertido.
[11863][11875]Recuerdas esa palabra?
[11891][11903]Diversin?
[11906][11931]Supongo que no he tenido mucho|tiempo para eso ltimamente.
[12037][12049]Hollister.
[12052][12064]Sip.
[12072][12086]Cristo.
[12093][12107]Voy enseguida.
[12125][12141]Lo siento, cario, tengo que irme.
[12146][12162]Trabajo.
[12354][12379]POLICA - NO CRUZAR
[12436][12478]- Qu ha pasado?|- Johnny Tramer, suicidio.
[12478][12496]- Jess.|- Disparo en la cabeza.
[12531][12545]Qu est pasando all?
[12559][12575]Es algo realmente extrao.
[12585][12599]Cav el hoyo?
[12603][12616]No haba seales de|una pala alrededor.
[12616][12646]As que si lo hizo,|no estoy seguro de cmo.
[12645][12663]- Sus manos?|- Lo he comprobado.
[12666][12687]Las uas estn limpias.
[12681][12704]- Extrao.|- Se vuelve an ms extrao.
[12713][12723]Qu quieres decir?

[12727][12743]Mira las huellas de las manos.
[12746][12771]No parece que alguien|fue enterrado vivo aqu...
[12771][12782]y
cavara para salir?
[12788][12819]Entrando en el espritu|de Noche de Brujas, Brodie?
[12818][12828]No!
[12829][12855]Es slo, slo lo que parece.
[12863][12889]Me parece que alguien acaba|de cavar un hoyo en un campo.
[12889][12905]Por qu, no lo s.
[12917][12938]Parece que hubo algo de|lluvia aqu, sin embargo.
[12939][12961]Manos grandes tambin,|definitivamente un hombre.
[12965][12993]Puso sus manos sobre el|lodo para salir de all.
[12997][13026]Entonces, Johnny se meti en|el hoyo para seguir cavando...
[13026][13045]luego, cuando termin,|se sac a s mismo.
[13045][13062]No...|Vers, eso pens.
[13063][13094]Pero tengo a mis hombres midiendo la|enpolladura de las manos de Johnny,
[13095][13117]y son la mitad del tamao|de esas huellas de manos.
[13125][13153]Entonces, qu ests diciendo, que alguien|ms estuvo aqu tambin?
[13156][13191]Bueno, no hay seales de una pala,|dos juegos de huellas de manos.
[13202][13223]Tal vez alguien lo mat y tena|la intencin de enterrar el cuerpo...
[13223][13247]pero,
lo interrumpieron y huyo.
[13263][13294]Tendremos que ver qu dice el informe|de balstica. Llamaste al forense?
[13296][13323]S, va a tener mucho trabajo|que hacer en este caso.
[13333][13355]- Qu quieres decir?|- Mira el cuerpo.
[13417][13442]Dios! Cunto tiempo lleva aqu?
[13454][13471]Bueno, estuvo en el trabajo ayer.
[13471][13494]As que no ms de 24 horas.
[13504][13522]Nunca he visto un|cuerpo descomponerse...
[13522][13535]en tan poco tiempo.
[13612][13624]Frank?
[13645][13657]Frank.
[13661][13673]Qu?
[13681][13705]- Ests bien?|- S, estoy bien.
[13717][13743]Ser mejor que vaya a|ver a Edie Tramer. Dios!
[13747][13767]Primero su hija el ao pasado|y ahora su hijo.
[13778][13805]- Vas a estar bien aqu?|- S, djamelo a m.
[14021][14035]Hola.
[14042][14054]Ellie.
[14059][14071]Esto se ve muy bien.
[14079][14096]Si que se han superado este ao.
[14096][14108]Gracias.
[14124][14159]As que, vas a ayudar o slo|vas a estar dando vueltas...
[14159][14178]hasta que traigamos
la ponchera?
[14196][14208]Disclpame un momento.
[14287][14306]Cmo te va, Joe?
[14304][14316]No es bueno.

[14317][14338]Johnny Tramer se suicid anoche.
[14354][14378]Dios! Qu ha pasado?
[14381][14406]Fue al lugar, ya sabes...
[14407][14424]dnde est el paquete.
[14432][14457]De todos modos,|el chico se dispar en la cabeza.
[14462][14472]l est muerto.
[14481][14493]Buen Dios.
[14498][14511]Esto est jodido.
[14512][14534]Si la Polica empieza|a husmear en esa zona,
[14534][14556]van a encontrar ms|de lo que esperaban.
[14563][14573]- Muy bien.|- Por qu ese dbil...
[14573][14586]mierdecilla tuvo que hacerlo all?
[14586][14613]Tranquilo, hablar con Frank.|Lo arreglaremos.
[14713][14742]S que este es un momento|desgarrador para ti, Edie...
[14755][14791]pero, hay algo que Johnny|haya dicho o hecho...
[14804][14822]para indicar que era un suicida?
[14835][14858]No ha sido el mismo desde|que Stephanie fue asesinada.
[14866][14881]Ninguno de nosotros lo ha hecho.
[14893][14918]Dijo algo sobre
todo ese asunto,
[14918][14937]ya sabes, Jack Cain?
[14956][14971]Saba que lo quera muerto.
[14982][14994]Todos lo queramos.
[15004][15029]Tus hombres estn ms cerca|de encontrar a esa basura?
[15052][15065]En realidad, no.
[15074][15103]Se fue de la ciudad el ao pasado.|Pudo haber ido a cualquier parte.
[15108][15124]Maldito seas por dejarlo ir.
[15127][15157]No lo dej ir, comet un error.
[15173][15191]Tengo que vivir con|ello todos los das.
[15206][15221]Pobre de ti.
[15236][15261]Tengo que vivir con perder|a Stephanie todos los das.
[15268][15284]Y ahora a mi hijo tambin.
[15297][15309]Tienes razn.
[15313][15329]No quise ser insensible.
[15342][15358]Necesito volver a la estacin.
[15358][15379]Va a venir alguien?
[15379][15398]Puedo enviar a alguien|a ofrecer apoyo.
[15398][15413]Slo quiero que me dejen en paz.
[15436][15449]Entiendo.
[15461][15474]Lo siento, Edie.
[15484][15496]De verdad que lo hago.
[15739][15759]- Hola?|- Hola, mejillas dulces.
[15765][15788]Ya sabes, los aos
'50 llamaron.
[15789][15797]Quieren que le devuelvas|el nombre de su mascota.
[15797][15814]Slo trato de ser carioso.
[15815][15833]Lo s, slo estoy bromeando.
[15839][15851]Cmo van las cosas?

[15851][15872]Bueno, encontramos a|Johnny Tramer esta maana.
[15872][15884]Se suicid.
[15894][15911]Dios, eso es horrible.
[15927][15951]Su hermana tambin muri el ao pasado.|Su madre debe estar hecha pedazos.
[15951][15968]S, tu padre est all ahora mismo.
[15968][15984]Contndole las noticias.
[15993][16007]Dios, eso es horrible.
[16023][16036]No los conoca tan bien.
[16036][16064]Pero pap sola salir|con su padre hace aos.
[16082][16101]Hablando de tu padre, no le dijiste...
[16101][16117]sobre nosotros, verdad?
[16117][16137]Brodie, eres un marica,|lo sabas?
[16137][16156]- No soy un marica.|- Lo eres.
[16171][16192]Por qu demonios ests|tan asustado de mi padre?
[16203][16221]Es el tipo ms dulce del mundo.
[16222][16252]S, en casa tal vez,|pero en el trabajo es mi jefe.
[16252][16277]Y
sabes lo incmodo que es que|te atrapen con la hija del jefe?
[16277][16294]Vamos, admtelo.
[16297][16318]El riesgo es parte de la emocin.
[16335][16371]Entonces, dime. Qu llevas puesto?
[16381][16406]Un jersey de lana grueso y|una redecilla para el cabello.
[16409][16427]Vamos Jen, en serio?
[16427][16454]- De verdad quieres hacer esto ahora?|- S, slo un minuto.
[16459][16479]Llama a uno de esos programas|de chicas de la tele...
[16479][16502]donde las chicas mueven|el culo arriba y abajo.
[16504][16528]S, cuestan cinco dlares|el minuto, esto es gratis.
[16534][16558]Eres una mierda tan descarada,|lo sabas?
[16584][16599]Vamos, dime. Qu llevas puesto?
[16609][16622]Con quin ests hablando?
[16636][16654]No es nadie.
[16661][16674]Hablando solo?
[16678][16695]Es una chica que conozco.
[16702][16718]De acuerdo, bueno, no tardes mucho.
[16718][16744]Tenemos cosas ms importantes|de las que ocuparnos hoy.
[16748][16765]Estar en mi oficina.
[16767][16779]Seor.
[16827][16848]-
Hola?|- Marica.
[16965][16979]- Dios mo!|- Qu?
[16979][16999]Bien, bien, mira esto.
[17007][17033]- Joder, qu diablos es eso?|- Es muy divertido.
[17037][17061]Una verdadera falta de estndares,|los de tu generacin.
[17063][17086]Dios mo, tenemos un chorreador.
[17087][17111]Muy bien, apgalo.|Este es un lugar de negocios.
[17119][17131]Muy bien.
[17131][17146]Tranquilo, abuelo.
[17149][17164]Sabes, cuando tena tu edad...

[17164][17183]no tenamos acceso a nada de eso.
[17188][17219]Lo que tenamos eran revistas.|Ni siquiera podamos costernoslas.
[17227][17239]Pero siempre encontrbamos,|cmo, grandes montones de ellas...
[17239][17253]en el bosque por alguna razn.
[17258][17286]Esto aade un nuevo significado|al trmino naturista.
[17289][17304]Entonces,|cul es el maldito problema?
[17304][17323]Es lo que hacen los chicos.
[17326][17339]Lo es?
[17339][17358]Dios, no me estoy perdiendo mucho.
[17358][17378]S, todo se trata de las bromas.
[17382][17407]Escucho esa palabra todo el tiempo,|bromas.
[17413][17425]Qu
significa eso?
[17426][17448]Bueno, es slo que, ya sabes,|nos necesitamos el uno al otro.
[17448][17461]Para divertirse y eso.
[17464][17489]Y t siempre ests bromeando|con tus amiguitos, no?
[17489][17504]S, s, lo hacemos.
[17513][17553]Aunque s,|a veces puede ir demasiado lejos.
[17551][17568]- S?|- S.
[17578][17606]Mira, alguna vez te he hablado|de mis vacaciones de la escuela...
[17606][17623]donde unos amigos y yo|nos fuimos a Mxico?
[17623][17635]No.
[17641][17652]Cierto.
[17658][17687]As que hay un chico llamado James,|ya sabes,
[17687][17728]y es muy credo,|demasiado confiado, arrogante.
[17722][17754]As que una noche|sale y se emborracha.
[17754][17783]Luego regresa a la villa|y se desmaya en el sof.
[17788][17805]As que tengo una idea, ya sabes,
[17810][17827]voy a bajarle los humos.
[17833][17858]As que lo que hago es|tomar un condn y lo pongo...
[17858][17877]al final de un lpiz y...
[17886][17914]se lo pongo en el chocolate|mientras est desmayado.
[17926][17941]Cmo
chocolate?
[17945][17972]S, el nudo de tu globo.
[18008][18032]Tu bolso de prisin,|tu estrella de mar de chocolate.
[18049][18062]Raja del culo.
[18063][18081]Entonces, por qu no|dijiste eso para empezar?
[18081][18106]De acuerdo, me asegurar|de mantener mi lenguaje...
[18106][18127]ms adecuado para los|pensionados en el futuro.
[18131][18156]De todos modos,|James se despierta al da siguiente...
[18156][18179]y no tiene recuerdos|de la noche anterior.
[18181][18198]Estaba tan borracho.
[18198][18218]Todo lo que sabe es que|ahora tiene un condn...
[18218][18235]colgando de su culo.
[18237][18266]Y nos pregunta: "Qu pas anoche?"
[18268][18281]Y as que se lo decimos.
[18287][18317]Yo digo: "Bueno, amigo, te vimos|charlando con este chico...

[18317][18351]en el bar y lo siguiente que|sabemos es que te has ido con l".
[18356][18385]As que James,|empez a enloquecer porque piensa...
[18385][18413]que la espada de cerdo de|un extrao se lo ha clavado.
[18432][18458]- La espada
de cerdo significa polla.|- S, s, lo s.
[18458][18477]La descripcin me dio un poco|de informacin sobre eso.
[18478][18523]Est bien, est bien. James,|est llorando y llama a su novia,
[18526][18552]y confiesa su primera|experiencia gay...
[18552][18577]y toma el siguiente|vuelo de vuelta a casa.
[18577][18611]Y no le dije la verdad|hasta seis meses despus.
[18641][18688]As que tcnicamente el nico|que hizo algo gay fuiste t.
[18694][18707]Por qu dices eso?
[18709][18742]- Le metiste un lpiz en el culo.|- S, pero eso no es gay.
[18759][18777]- Es un poco gay.|- Bueno, no, cllate.
[18783][18803]S, tienes razn,|las bromas son divertidas.
[18817][18834]De todos modos,|tengo trabajo que hacer.
[18843][18859]Muy bien, vuelvo en cinco minutos.
[18869][18885]Tengo que ir a echar una cagada.
[18914][18956]ESTACIN DE POLICA
[18966][18993]Entonces, el chico,|por qu lo hizo?
[19003][19017]Bueno, considerando dnde lo hizo.
[19017][19038]Supongo que no poda|vivir con lo que pas.
[19049][19078]-
Hablaste con su madre?|- Est destrozada.
[19087][19114]Le dijo lo que le pas a Cain?
[19115][19134]No creo que ella sepa nada.
[19154][19166]De acuerdo.
[19172][19193]Bueno, djame preguntarte|a ti, Frank.
[19199][19211]Qu hay de ti?
[19222][19234]Qu hay de m?
[19236][19271]Ya no te veo en ninguna|de estas noches sociales.
[19275][19298]Se siente como si nos|estuvieras evitando estos das.
[19298][19323]Realmente pensaste que las cosas|seguiran igual entre nosotros?
[19323][19355]Mierda como esa cambia a la gente.|Ciertamente me cambi a m.
[19369][19395]Piensas demasiado en todo,|ese es tu problema.
[19396][19428]Hicimos lo correcto.|Se hizo justicia.
[19436][19452]Lo que t digas, Milton.
[19461][19474]Ahora, si no te importa,
[19474][19492]tengo mucho papeleo que hacer.
[19753][19769]Mike, tienes la llave inglesa?
[19796][19802]Mike.
[19811][19826]Ests sordo o qu?
[20202][20214]Qu opinas?
[20255][20267]No lo s.
[20285][20304]No he visto nada como esto|desde los asesinatos de Cain.
[20325][20338]Cmo
quieres manejarlo?
[20372][20397]Esta es una semiautomtica.

[20415][20446]Slo amartilla el martillo,|inserta el cartucho...
[20446][20479]en la cmara y la|pistola estar lista...
[20479][20491]para su prximo disparo.
[20507][20531]Los cartuchos se alimentan a|travs de un cargador...
[20532][20556]que se introduce en el mango.
[20562][20584]Si quieres esta, te puedo dar...
[20584][20603]cinco cajas de cargadores,|que tienen 15 cartuchos.
[20603][20619]Que vienen en doble columna.
[20623][20652]Es una mquina muy, muy poderosa.
[20654][20672]Rpida y fcil de recargar tambin.
[20702][20749]Este es el revlver .38.
[20752][20772]El cilindro tiene capacidad|para siete cargas.
[20776][20799]Tanto las semiautomticas|como los revlveres,
[20803][20821]tienen dos estilos de|accin principales.
[20834][20846]Accin simple y doble.
[20857][20878]Esta perrita, es doble.
[20886][20918]Es pequea, lo que la hace|perfecta para ocultarla.
[20929][20952]Pero an as tiene un gran golpe.
[20972][20984]Maldita
pistola ingeniosa.
[20988][21019]Este hijo de puta es mi favorito.
[21052][21099]Esta fina arma goza|de la reputacin...
[21099][21124]de ser el estndar de oro|de la potencia de frenado.
[21141][21183]Es un tapn de un slo|disparo extremadamente fiable.
[21183][21219]No es buena para ocultar,|pero puedes hacer un agujero...
[21219][21246]a travs de un maldito oso,|con una de estas cosas.
[21257][21273]Me encanta esta pistola.
[21296][21315]De acuerdo.
[21325][21333]A algunos cerditos...
[21344][21359]les gusta ir al mercado.
[21361][21379]Algunos cerditos se quedan en casa.
[21387][21418]A algunos les gusta comer|mucha carne asada...
[21436][21452]pero t, cerdito...
[21456][21474]has venido a comprar|algunas armas dudosas.
[21474][21487]Entonces, cul vas a escoger?
[21494][21507]Vamos,|no tengo todo el maldito da.
[21531][21543]Todas ellas.
[21584][21605]Eres un cerdito codicioso, no?
[21616][21648]Siento mucho lo de Johnny.
[21649][21661]Cuando me enter,|tena que venir a
verte.
[21668][21682]Gracias.
[21691][21712]Tienes a alguien aqu|que pueda ayudarte?
[21723][21746]Mi hermano llega esta noche.
[21756][21764]Es todo lo que me queda ahora.
[21797][21808]S que esto es difcil para ti,|Edie,
[21808][21824]pero tengo que preguntar,
[21831][21858]Johnny te dijo algo|sobre Jack Cain?

[21863][21899]- Cmo dnde desapareci?|- No me dijo nada.
[21913][21925]De acuerdo.
[22079][22111]No quiero ser molesto,|pero, tienes galletas?
[22135][22147]Galletas?
[22154][22166]Si.
[22198][22209]S, creo que s.
[22216][22228]En la cocina.
[22246][22272]- Ir a buscarlas.|- Me encantara.
[22275][22288]Gracias.
[23496][23527]Muere, maldita puta!
[23553][23565]Muere!
[23652][23662]Joder.
[23691][23704]Dnde estn las galletas?
[23943][23963]Amigo, un dulce por Noche de Brujas.
[24214][24225]Hola, querido.
[24229][24241]Qu ests haciendo?
[24245][24264]Slo estoy haciendo|todas las decoraciones.
[24269][24288]Pero deberan haberse|hecho esta maana.
[24296][24313]Bueno, yo he...
[24319][24342]He
estado muy ocupada con|todos los pasteles tambin.
[24345][24372]Algunos de ellos estn un|poco quemados, as que...
[24375][24388]Qu quieres decir?
[24391][24413]Bueno...
[24428][24435]No has terminado la decoracin,
[24435][24462]has quemado la comida.|Qu has estado haciendo?
[24467][24479]Hazlos de nuevo!
[24484][24501]- Qu, ahora?|- S, hazlo!
[24505][24519]De acuerdo.
[24732][24749]Siempre tiene que ser as?
[24756][24778]Mira, me disculpo por|perder los estribos,
[24778][24793]pero esto tiene que hacerse.
[24819][24831]De acuerdo.
[25099][25154]Slo una pequea cantidad|en una copa de vino.
[25166][25182]O quizs una flor.
[25223][25239]Qudese con l, Monsieur.
[25284][25297]Qudeselo.
[25312][25338]Puede cambiar de opinin.
[25342][25357]No est muerta?
[25367][25379]Ests loco?
[25387][25394]La v morir.
[25397][25416]El doctor firm el certificado.
[25416][25428]Los v enterrarla.
[25441][25456]Cautiva en el lmite...
[25456][25478]entre
la vida y la muerte.
[25489][25518]Su cerebro se despoj|de la chispa de la vida.
[25545][25591]El zombi blanco obedece|las rdenes impas...

[25591][25609]de su amo demonio.
[25711][25748]Como criaturas sin sentido llevan|a cabo su maldita sea a voluntad...
[25808][25821]Zombis!
[26387][26402]Emergencia, emergencia.
[26928][26949]Adelante, Frank. Adelante.
[26987][26993]Si?
[26994][27012]Ven a la casa de los|Boggs en la calle Oak.
[27024][27038]Es malo, Frank.
[27044][27058]Es realmente jodidamente malo.
[27583][27614]NOCHE DE BRUJAS
[28094][28128]Parece que tenemos a un|maniaco suelto.
[28189][28201]Ests bien, Frank?
[28223][28232]Frank?
[28249][28273]S, s.
[28307][28315]Te voy a decir algo...
[28323][28343]que nunca se lo he contado a nadie.
[28347][28367]S,|algo que he estado llevando conmigo...
[28367][28384]desde hace un ao.
[28401][28413]De acuerdo.
[28417][28429]Jack Cain.
[28447][28459]Hace
un ao,
[28467][28495]yo, Boggs...
[28501][28516]Joe, y Johnny...
[28526][28542]fuimos a su cabaa.
[28557][28573]Lo llevamos al campo,
[28577][28601]el mismo en el que Johnny|fue encontrado esta maana...
[28621][28634]y lo matamos.
[28649][28667]Le disparamos a quemarropa...
[28679][28692]y luego lo enterramos.
[28711][28724]Hablas en serio, Frank?
[28731][28752]Sent que era lo correcto.
[28766][28795]Pero, me ha perseguido|desde entonces.
[28862][28893]As que estos asesinatos,|ahora hay un vnculo claro...
[28893][28906]entre las vctimas.
[28922][28953]Todo hombre involucrado en el asesinato|de Jack Cain est ahora muerto.
[28966][28987]Todos menos uno.
[28992][29018]Sabes lo que eso significa,|verdad?
[29028][29048]- Eres el siguiente.|- As es.
[29071][29091]Hay algo ms que deberas saber,|tambin.
[29094][29106]Qu sera eso?
[29129][29142]Hay un tipo...
[29151][29173]en la penitenciara de Edenfield,
[29175][29189]alguien llamado Charlie Edgar.
[29199][29226]Est cumpliendo cadena perpetua|por
el asesinato de una joven.
[29236][29252]Hace unos meses me lleg la noticia...
[29253][29276]del psiquiatra, que Edgar...

[29276][29296]haba confesado los|asesinatos de Cain.
[29303][29314]Lo entrevistaste?
[29321][29333]Lo hice, s.
[29347][29386]Y tengo que decirte, cuando|Edgar me cont cmo fue todo,
[29391][29403]le cre.
[29412][29429]Saba muchos detalles|sobre los asesinatos...
[29429][29447]que mantuvimos fuera|de los peridicos.
[29452][29465]Entonces, qu hiciste?
[29486][29499]Escrib un informe.
[29527][29541]Y luego lo enterr.
[29555][29571]Nunca se lo ense a nadie.
[29577][29601]Ya fue bastante difcil|lidiar con la idea...
[29601][29618]de matar a un supuesto culpable.
[29627][29634]Cielos, Frank.
[29642][29667]Me avergenzo de lo que he hecho.
[29687][29724]Alguien ms sabe...|Que mataste a Cain?
[29742][29768]Es posible que uno|de los otros tipos...
[29768][29783]haya hablado con alguien,|de acuerdo.
[29784][29813]Pero por qu alguien|se estara vengando...
[29813][29828]en
nombre de Jack Cain?
[29828][29845]Toda la ciudad viva|con miedo de l.
[29845][29859]Todos lo queran muerto.
[29863][29887]Podra ser un amigo de Cain,|alguien vinculado a l.
[29889][29907]S, esa es la explicacin racional.
[29915][29929]Pero hay otra teora.
[29942][29957]No es tan racional.
[29962][29974]Y esa es?
[29979][29997]Jack Cain ha vuelto de la muerte.
[30021][30032]Te sientes bien?
[30036][30061]Sabes, este es un momento|estresante y todo eso, Frank.
[30061][30081]- Ya sabes, pero...|- Y ese agujero en el suelo,
[30086][30125]dijiste que pareca que alguien haba|sacado las manos y se haba impulsado.
[30123][30135]Si.
[30143][30167]Ah es exactamente|donde enterramos a Cain.
[30176][30193]Su cuerpo ha desaparecido.
[30203][30221]Tal vez alguien que|sabe lo que pas...
[30221][30246]lo rob y quiere que pienses|que ha vuelto de la muerte.
[30248][30269]Hay un montn de cosas que|estn pasando ahora mismo...
[30269][30286]que no se pueden|explicar fcilmente.
[30289][30307]Tenemos que
ser abiertos de mente.
[30326][30346]Entonces, cul es nuestro|prximo movimiento?
[30358][30379]Tengo una llamada|importante en la estacin.
[30386][30406]Mi hija est en el Ayuntamiento...
[30406][30421]en la fiesta de Noche de Brujas.
[30427][30461]Ve a buscarla y|trela a la estacin.
[30472][30509]Bien, ya que estamos en ese tema...

[30519][30544]dado que me dijiste la verdad,|creo que es lo correcto...
[30544][30570]que yo tambin te diga la verdad.
[30615][30622]Qu es?
[30672][30684]Jennifer,
[30694][30704]nos hemos estado viendo.
[30714][30733]- Por cunto tiempo?|- Cuatro meses.
[30733][30751]Mira, siento no haber dicho nada,
[30752][30775]es slo que no quera|decir demasiado...
[30771][30787]antes de que las cosas se desarrollaran,|de lo contrario,
[30787][30798]las cosas se habran puesto incmodas.
[30798][30818]- Vas en serio con ella?|- Mucho.
[30823][30857]La amo y...|Creo que ella tambin me ama a m.
[30983][30995]Toma esto...
[31005][31032]para proteccin,|y ve a buscar a Jennifer...
[31047][31062]y
llvala a la estacin.
[31066][31078]Lo tengo.
[31242][31267]As que acordamos encontrarnos|en este bar al principio,
[31275][31302]y tom como siete gin tonics...
[31302][31321]en el espacio de una hora.
[31322][31336]El bar tender me avis...
[31336][31352]mientras el tipo estaba en el bao.
[31357][31384]Pero an as termin|yendo a otro bar con l.
[31387][31416]Pidi guacamole y se neg|a compartirlo conmigo,
[31422][31437]mientras afirmaba que iba a...
[31438][31462]lanzar a todos los|hpsters a la calle.
[31468][31484]Qu idiota.
[31496][31522]Al final fuimos a esta|cafetera toda la noche,
[31524][31551]en parte para que se pusiera sobrio,|y en parte porque...
[31551][31573]haba olvidado su nombre, y pens...
[31573][31588]que lo escribiran en su vaso.
[31597][31622]As que supongo que no hubo|una segunda cita, entonces.
[31622][31634]No.
[31638][31663]Creo que le dar un descanso|a las citas por un tiempo.
[31676][31692]Cmo van las cosas con Brodie?
[31709][31725]Todava no se
lo he|dicho a mi padre.
[31726][31742]No estoy segura de|cmo reaccionar.
[31751][31766]Estoy segura de que estar bien.
[31772][31783]No contratara a Brodie...
[31783][31803]si no creyera que es|un tipo responsable.
[31814][31826]Cierto.
[31843][31877]Le has dicho a Brodie|que ests embarazada?
[31885][31897]Qu?
[31907][31927]Cmo lo supiste?
[31925][31952]Estamos en una fiesta|y t bebes agua.
[31953][31972]Esa no es la Jennifer que conozco.
[31974][31993]Me hice la prueba hoy mismo.

[32001][32014]Enhorabuena.
[32021][32039]- Cmo te sientes?|- Slo...
[32049][32063]nerviosa, ahora mismo.
[32066][32081]No s si estoy lista.
[32081][32112]No tengo ni idea de|cmo se sentir Brodie.
[32114][32132]Es un gran paso.
[32141][32163]No te preocupes, te adora.
[32168][32181]Estar encantado.
[32181][32203]Va a ser un golpe|doble para mi padre.
[32205][32233]Descubrir que estoy viendo a|alguien que trabaja para l...
[32233][32245]y va a ser abuelo?
[32257][32269]Ya est bastante estresado.
[32269][32298]Oye,|no
hay nada de qu preocuparse.
[32309][32335]Una vez que el polvo se asiente,|estar contento.
[32356][32375]S lo difcil que fue para los dos...
[32375][32398]cuando tu madre muri.
[32406][32439]No hay otra manera de ver esto|que como un evento feliz.
[32457][32471]Gracias, Ellie.
[32522][32543]John, ese nmero de telfono,
[32548][32571]al que Cain llam cuando fue|arrestado por primera vez.
[32574][32589]Ya tienes una direccin?
[32657][32669]Si.
[32691][32702]Si.
[32728][32745]Gracias, John.
[33277][33291]Buenas noches.
[33307][33337]Sabe, un hombre que lleva un arma|no me parece tan seguro de s.
[33343][33381]De hecho,|veo a un hombre asustado ante m.
[33382][33396]Vincent Crowley?
[33401][33414]Quin quiere saber?
[33431][33443]Me llamo Hollister.
[33451][33465]Soy un Oficial de Polica.
[33469][33487]Quiero hablarte de Jack Cain.
[33505][33522]Siempre estoy abierto a conversar.
[33531][33547]Pero encuentro que es|mucho ms agradable...
[33547][33563]sin un arma apuntndome.
[33663][33675]Sintate.
[33787][33812]Qu
es lo que le gustara|saber sobre Jack Cain?
[33837][33853]Cuando fue arrestado,
[33854][33876]fuiste la primera persona|a la que llam. Por qu?
[33891][33903]Soy su amigo.
[33915][33927]Jack no tena muchos.
[33989][34011]Veo que compartes un|inters por lo oculto.
[34032][34054]Tomo lo "oculto",|como usted lo llama...
[34054][34079]como lo que es percibido negativamente|en su mundo.
[34093][34109]Si se usa para hacer|dao a la gente.
[34136][34159]Lo oculto es simplemente un|estudio de lo desconocido.

[34164][34191]Explora los lmites de|nuestras percepciones,
[34192][34215]nuestras verdades,|nuestros potenciales.
[34221][34237]No es ni bueno, ni malo.
[34261][34285]Por lo que encontramos en su casa,
[34292][34308]s que Jack Cain lo estaba usando.
[34326][34351]Jack siempre estuvo interesado|en explorar los lmites...
[34351][34375]entre la vida y la muerte.
[34374][34388]Consider la posibilidad de...
[34388][34408]que el mundo|que se nos presenta...
[34408][34426]puede
que no sea todo lo que hay.
[34436][34448]Es eso un crimen?
[34452][34464]No.
[34471][34486]Pero asesinar a dos|personas s lo es.
[34521][34548]- Crees que el asesinato es gracioso?|- No, seor Hollister.
[34548][34573]Lo que me divierte es cmo una mentira|contada durante el tiempo suficiente...
[34573][34597]puede convertirse en una verdad en|las mentes de los hombres comunes.
[34597][34609]Crees que es inocente?
[34618][34646]La noche que esos chicos fueron|asesinados, Jack estaba conmigo.
[34649][34669]Fuimos bienvenidos en|el solsticio de verano...
[34669][34695]en Sacramento Bay con|un grupo de amigos.
[34711][34731]No volvimos a casa|hasta despus de que...
[34731][34747]esos cuerpos fueran descubiertos.
[34753][34773]T y esos amigos que mencionas...
[34790][34811]por qu no hicieron una|declaracin en su defensa?
[34816][34842]No era necesario, como sabe.
[34852][34877]Pero considere esto, seor Hollister.
[34877][34897]Su sistema realmente|habra aceptado la palabra...
[34897][34905]de
gente como nosotros?
[34922][34947]Somos los parias de su sociedad.
[34952][34977]Somos los perros que dejan|a un lado de la carretera.
[34977][34997]No encajamos en sus convenciones,
[34997][35027]por lo tanto somos|excluidos y perseguidos.
[35042][35063]Bueno, no quiero entrar|en un debate sobre esto.
[35075][35089]Slo quiero saber una cosa.
[35095][35107]Estas...
[35118][35133]prcticas.
[35152][35166]Pueden hacer que|una persona sea capaz...
[35166][35196]de desafiar las leyes de, no s...
[35206][35218]la fsica?
[35226][35243]Una pregunta intrigante.
[35258][35274]Parece que su mente|se est abriendo...
[35274][35318]a las posibilidades ms all del|pensamiento convencional terrenal.
[35331][35348]Slo dime en qu crea Jack Cain.
[35361][35373]Aydame a entender.
[35389][35408]Qu es lo que quiere entender,|seor Hollister?
[35417][35448]Qu pas antes de que lo mataran,|o despus?

[35481][35526]No soy una amenaza para usted,|seor Hollister. Por favor, reljese.
[35621][35649]A lo
nico que le teme|un hombre, es a la verdad.
[35663][35681]As que si voy a|ofrecerle la verdad,
[35691][35718]- est listo para aceptarla?|- S.
[35767][35788]La ocupacin romana de|Gran Bretaa dur entre...
[35788][35816]el ao 43 d.C. y|alrededor del ao 400 d.C.
[35823][35857]Antes de que los Romanos invadieran,|el sacerdocio Druida...
[35851][35874]eran el poder|indiscutible de la tierra.
[35881][35904]La historia est escrita|por los vencedores.
[35918][35933]Cuando los Romanos|conquistaron a los Celtas...
[35933][35963]dieron descripciones poco|halagadoras de los Druidas.
[35972][36001]Algunos los describieron como|brbaros sedientos de sangre.
[36001][36022]Que ofrecan sacrificios humanos.
[36036][36076]Otros sostienen que los Druidas|eran gentiles y pacficos.
[36087][36128]Y mantuvieron su autoridad al estar|en contacto con la naturaleza.
[36149][36174]La verdad est en|algn punto intermedio.
[36183][36214]Los Druidas si hicieron|sacrificios humanos,
[36214][36237]pero eran autosacrificios.
[36252][36291]Durante
el Samhain,|especialmente el 31,
[36301][36324]cuando el velo entre|los vivos y los muertos...
[36324][36357]estaba en su punto ms delgado,|algunos de los Druidas...
[36359][36386]sacrificaron sus|vidas voluntariamente.
[36406][36422]Crean que su sangre de sacrificio...
[36423][36456]filtrada por el suelo podra|incluso tener el poder...
[36457][36474]de... Levantar a los muertos.
[36519][36525]Jack Cain lo crea?
[36549][36562]Su mente estaba abierta.
[36568][36584]- Y la suya?|- Qu quieres decir?
[36607][36625]Se cometi una injusticia.
[36635][36658]El pueblo se volvi|contra un hombre inocente...
[36658][36665]y fue ejecutado,
[36669][36689]y ahora ha vuelto para vengarse.
[36692][36726]Y con cada alma que l...|Absorbe...
[36726][36762]se vuelve ms y ms poderoso.
[36772][36796]Por supuesto que hay otra|explicacin para todo esto.
[36798][36825]- Cul es?|- T eres el que ha vuelto para vengarse.
[36841][36857]Ay, seor Hollister!
[36864][36901]Se acerc tanto a una|forma
superior de comprensin.
[36909][36925]Pero se asust...
[36932][36967]as que ha vuelto a su|perspectiva convencional terrenal.
[36971][37003]En el trabajo policial normalmente|la explicacin ms simple...
[37003][37015]suele ser la correcta.
[37019][37042]Y ahora qu? Me arrestar?
[37043][37063]Parece el siguiente paso lgico.
[37073][37085]No, seor Hollister.

[37086][37106]El siguiente paso lgico|sera pasar pgina...
[37106][37132]del libro de los Druidas|y hacer un autosacrificio...
[37132][37144]para salvar a su ciudad.
[37155][37178]Jack Cain ya no es humano.
[37181][37204]Se est volviendo ms que humano.
[37208][37238]l es su Dios ahora,|y es un Dios vengativo.
[37238][37263]Buscando castigar a los|que lo persiguieron.
[37269][37294]Slo un autosacrificio|lo apaciguar.
[37675][37701]- Es el verdadero McCoy.|- S.
[37763][37777]El padre de tu beb est aqu.
[37777][37799]Dios mo, odio esa expresin.
[37801][37834]Mejor que te acostumbres.|Tengo que ir al bao.
[37837][37854]Los dejo solos.
[37886][37907]Puedo
hablar contigo|en privado un momento?
[37987][37999]Qu sucede?
[38011][38041]- Mi padre est bien?|- Est bien, ms o menos.
[38043][38055]Qu quieres decir?
[38056][38075]Me ha pedido que te|lleve a la estacin.
[38075][38086]Por qu?
[38087][38103]Sabes que mencion que|Johnny Tramer se suicid?
[38106][38118]- S?|- Encontramos otros cuatro cuerpos.
[38127][38132]- Dios mo!|- Joe Johnson,
[38134][38153]Mike Anderson,|Milton Boggs y Vernica.
[38153][38179]- Qu pas?|- Todos asesinados.
[38186][38206]Dios mo!|Han averiguado quin lo hizo?
[38206][38218]No, todava no.
[38218][38239]Tenemos a nuestros chicos|patrullando las calles.
[38241][38257]Tu padre me ha pedido|que venga a buscarte.
[38257][38272]No deberamos quedarnos aqu?
[38272][38291]Quiero decir,|hay mucha gente alrededor.
[38297][38324]Quienquiera que haya matado a|esa gente, no va a venir aqu.
[39737][39755]Qu es lo que pasa?
[39774][39794]Dulce o truco.
[39983][39999]Vayan por ah, vayan por ah.
[40051][40063]Aljense
de l!
[40124][40155]No, por favor, no.|Qu cojones eres?
[40427][40441]Aljate de m!
[40626][40638]Oye, t!
[40678][40693]Ven y toma un poco de esto.
[40714][40726]Vamos.
[41041][41061]- No, no lo hagas.|- Est bien.
[41242][41252]No hay pulso.
[41294][41306]No est respirando.
[41404][41418]Ayuda!
[41544][41556]Ven aqu.
[41559][41571]Qu est pasando?

[41573][41591]Ven aqu, ven aqu,|ven aqu, ven aqu.
[41637][41649]Oye.
[41655][41688]Comet un terrible error,|pero voy a compensarlo.
[41724][41736]Ay, Dios mo!
[41739][41756]Pens que estabas muerto.
[41763][41775]Est bien.
[41787][41804]No, no, estoy preocupada.
[41814][41826]Brodie.
[41837][41856]Llvate a mi hija y vyanse|de aqu.
[41856][41875]Qu vas a hacer t?
[41885][41909]Slo cuida de ella.
[41966][41978]Lo har.
[42038][42057]No, pap, t vienes con nosotros.
[42061][42084]No tengo tiempo para discutir.|Vete.
[42091][42117]Pap, no me ir de aqu sin ti.
[42184][42197]De acuerdo.
[42204][42217]Vamos.
[42381][42405]No, pap!|Qu ests haciendo?
[42405][42438]No,
no!
[42433][42445]Pap!
[42565][42601]Es hora de pagar por lo|que hiciste, Hollister.
[42626][42649]Por primera vez t y|yo estamos de acuerdo.
[42662][42676]Esto termina aqu y ahora.
[42754][42776]Tal vez t y yo|encontremos la redencin.
[42787][42807]Entonces, nos veremos en el Cielo.
[42837][42858]A quin estoy engaando?
[42892][42905]Te ver en el Infierno.
[43243][43276]El 31 de octubre es|normalmente el momento...
[43276][43285]para un susto seguro.
[43288][43308]El momento en que los|nios van a pedir dulces...
[43309][43326]y los adultos ven|pelculas de terror,
[43329][43354]pero anoche los|residentes de Dunwich...
[43355][43376]experimentaron un|horror de la vida real,
[43376][43407]mientras una fiesta de Noche de Brujas|se transform en una pesadilla.
[43416][43443]El Ayuntamiento qued|envuelto en llamas...
[43444][43473]y se cree que una docena|de personas han muerto.
[43474][43497]Varias
personas estn|heridas de gravedad...
[43497][43525]y se espera que el nmero|de muertos aumente.
[43531][43559]El Departamento de Bomberos local,|an no ha confirmado...
[43559][43584]la causa del incendio,|pero varios testigos...
[43584][43611]han afirmado que|antes de la explosin...
[43612][43648]un hombre enmascarado|no identificado entr en el edificio.
[43648][43688]Con un arma, hiriendo y|matando a varios asistentes.
[43691][43717]El Departamento de Polica|se ha negado a comentar...
[43717][43733]sobre estos reportes.
[43803][43862]UN AO MS TARDE

[44043][44087]Esto es WKB y yo soy|Jennifer Hollister, despidindome.
[44093][44112]Estimados oyentes...
[44124][44144]feliz Noche de Brujas!
[44926][44975]FRANK HOLLISTER|1976 - 2018
[45423][45472]JACK CAIN|1978 - 2018
[45646][45726]The Legend of Halloween Jack (2018)|Una traduccin de|TaMaBin
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```
File::FcntlLock
===============

File::FcntlLock is a module to do file locking in an object oriented
fashion using the fcntl(2) system call. This allows locks on parts of
a file as well as on the whole file and overcomes some known problems
with flock(2), on which Perls flock() function is based per default.

Since version 0.15 there three slightly different ways this can be done
with using this package. Per default a method is used where a shared
library build creation of the package is called from the Perl code to
```

invoke the fcntl(2) system function. This method can also be used by employing the File::FcntlLock::XS module (which basically an alias for File::FcntlLock). Two further methods instead use calls of the Perl fcntl() function. In both cases at some time a C program must be run to determine the binary layout of the C flock struct used by fcntl() for locking. For the one package, File::FcntlLock::Pure, this is done
while making the package. For the other, File::FcntlLock::Inline, this happens each time the package is loaded (e.g. wih the 'use' function). Of course, for this to work a C compiler must be installed on the system!

Unfortunately, there seem to be a few 32-bit systems where the off_t type, used in the flock struct, is a 64-bit integer but which use a Perl version that hasn't 64-bit support enabled. On these systems the 'q' format for Perl's pack() and unpack() function isn't available and thus a "pure Perl" approach is thus not possible. On such systems the File::FcntlLock::Pure and File::FcntlLock::Inline modules won't get installed.

PORTABILITY

To use the module the system must support the fcntl() system call which probably will restrict its use to POSIX compliant systems.

INSTALLATION

To install this module type the following:

```
perl Makefile.PL
make
make test
make install
```

DEPENDENCIES

The module requires the following other modules:

```
POSIX, Errno, Carp,
Exporter, DynaLoader
```

To install the module(s) a C compiler must be available and the system must support the use of shared libraries (or DLLs). For File::FcntlFlock::Inline the C compiler must also be available when the module is used. The installation of the File::FcntlLock::Pure

and File::FcntlLock::Inline modules require that the Perl pack()
and unpack() function support the 'q' format if the off_t type on
the system is 64-bit wide.

ACKNOWLEDGMENTS

Thanks to Mark Jason Dominus and Benjamin Goldberg for helpful discussions, code examples and encouragement. Glenn Herteg pointed out several problems and also helped improve the documentation. Julian Moreno Patino helped correcting the documentation and pointed out problems arising on GNU Hurd (which seems to have only very rudimentary support for locking with fcntl(2), at least at that time). Niko Tyni and Guillem Jover encouraged and helped with implementing alternatives to a XS-only approach which hopefully will make the module
more useful under certain
circumstances.

AUTHOR

Jens Thoms Toerring <jt@toerring.de>

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No license file was found, but licenses were detected in source scan.

=head1 NAME

File::FcntlLock - File locking with L<fcntl(2)>

This text also documents the following sub-packages:

=over 2

=item File::FcntlLock::XS

=item File::FcntlLock::Pure

=item File::FcntlLock::Inline

=back

=head1 SYNOPSIS

```
 use File::FcntlLock;

 my $fs = new File::FcntlLock;
 $fs->l_type( F_RDLCK );
 $fs->l_whence( SEEK_CUR );
 $fs->l_start( 100 );
 $fs->l_len( 123 );

 open my $fh, '<', 'file_name' or die "Can't open file: $!\n";
 $fs->lock( $fh, F_SETLK )
     or print "Locking failed: " . $fs->error . "\n";
 $fs->l_type( F_UNLCK );
 $fs->lock( $fh, F_SETLK )
     or print "Unlocking failed: " . $fs->error . "\n";
```

=head1 DESCRIPTION

File locking in Perl is usually done using the C<flock> function.
Unfortunately, this only allows locks on whole files and is often
implemented in terms of the L<flock(2)> system function which has
some shortcomings (especially concerning locks on remotely
 mounted
file systems) and slightly different behaviour than L<fcntl(2)>.

Using this module file locking via L<fcntl(2)> can be done (obviously,
this restricts the use of the module to systems that have a L<fcntl(2)>
system call). Before a file (or parts of a file) can be locked, an
object simulating a flock structure, containing information in a
binary format to be passed to L<fcntl(2)> for locking requests, must
be created and its properties set. Afterwards, by calling the L<lock()>
method a lock can be set and removed or it can be determined if and which
process currently holds the lock.

File::FcntlLock (or its alias File::FcntlLock::XS) uses a shared library, build during installation, to call the L<fcntl(2)> system function directly. If this is unsuitable there are two alternatives, File::FcntlLock::Pure and File::FcntlLock::Inline. Both call the Perl C<fcntl> function instead and use Perl code to assemble and disassemble the structure. For this at some time the (system-dependent)
binary layout of the flock structure must
have been determined via a program written in C. The difference between File::FcntlLock::Pure and File::FcntlLock::Inline is that for the former this happened when the package is installed while for the latter it is done each time the package is loaded (e.g., with C<use>). Thus, for File::FcntlLock::Inline to work a C compiler must be available. There are some minor differences in the functionality and the behaviour on passing the method for locking invalid arguments to be described below.

=head2 Creating objects

=over 4

=item C<new()>

To create a new object, representing a flock structure, call L<new()>:

```
$fs = new File::FcntlLock;
```

The object has a number of properties, reflecting the members of the flock structure to be passed to L<fcntl(2)> (see below). Per default on object creation the L<l_type> property is set to C<F_RDLCK>, L<l_whence> to C<SEEK_SET>, and both L<l_start> and L<l_len> to 0, i.e., the settings for a read lock on
the whole file.

These defaults can be overruled by passing the L<new()> method a set of key-value pairs to initialize the objects properties, e.g. use

```
$fs = new File::FcntlLock( l_type   => F_WRLCK,
                           l_whence => SEEK_SET,
                           l_start  => 0,
                           l_len    => 100 );
```

if you intend to obtain a write lock for the first 100 bytes of a file.

=back

=head2 Object properties

Once the object simulating the flock structure has been created
the following methods allow to query and, in most cases, to also
modify its properties.

=over 4

=item C<l_type()>

If called without an argument the method returns the current setting
of the lock type, otherwise the lock type is set to the argument's value
which must be either C<F_RDLCK>, C<F_WRLCK> or C<F_UNLCK> (for read lock,
write lock or unlock).

=item C<l_whence()>

This method sets, when called with an argument, the L<l_whence>
property of the flock object, determining
if the L<l_start> value
is relative to the start of the file, to the current position in
the file or to the end of the file. These values are C<SEEK_SET>,
C<SEEK_CUR> and C<SEEK_END> (also see the man page for L<lseek(2)>).
If called with no argument the current value of the property is
returned.

=item C<l_start()>

Queries or sets the start position (offset) of the lock in the file
according to the mode selected by the L<l_whence> member. See also
the man page for L<lseek(2)>.

=item C<l_len()>

Queries or sets the length of the region (in bytes) in the file to
be locked. A value of 0 is interpreted to mean a lock, starting at
C<l_start>, to the end of the file. E.g., a lock obtained with
L<l_whence> set to C<SEEK_SET> and both L<l_start> and L<l_len> set
to 0 locks the complete file.

According to SUSv3 support for negative values for L<l_len> are
permitted, resulting in a lock ranging from C<l_start+l_len> up to
and including C<l_start-1>. But not all systems support negative
values
for L<l_len> and will return an error when you try to obtain
such a lock, so please read the L<fcntl(2)> man page of the system
carefully for details.

=item C<l_pid()>

If a call of the L<lock()> method with C<F_GETLK> indicates that another process is holding the lock (in which case the L<l_type> property will be either C<F_WRLCK> or C<F_RDLCK>) a call of the L<l_pid()> method returns the PID of the process holding the lock. This method does not accept any arguments.

=back

=head2 Locking

After having set up the object representing a flock structure one can then try to obtain a lock, release it or determine the current holder of the lock by invoking the L<lock()> method:

=over 4

=item C<lock()>

This method expects two arguments. The first one is a file handle (or typeglob). File::FcntlLock, and thus File::FcntlLock::XS (B<but neither> File::FcntlLock::Pure B<nor> File::FcntlLock::Inline), also accepts a "raw" integer file descriptor. The second argument is a flag indicating
 the action to be taken. So call it as in

 $fs->lock($fh, F_SETLK);

There are three values that can be used as the second argument:

=over 4

=item C<F_SETLK>

With C<F_SETLK> the L<lock()> method tries to obtain a lock (when L<l_type> is set to either C<F_WRLCK> or C<F_RDLCK>) or releases it (if L<l_type> is set to C<F_UNLCK>). If an attempt is made to obtain a lock but a lock is already being held by some other process the method returns C<undef> and C<errno> is set to C<EACCESS> or C<EAGAIN> (please see the the man page for L<fcntl(2)> for more details).

=item C<F_SETLKW>

is similar to C<F_SETLK>, but instead of returning an error if the lock can't be obtained immediately it puts the calling process to sleep, i.e., it blocks, until the lock is obtained at some later time. If a signal is received while waiting for the lock the

method returns C<undef> and C<errno> is set to C<EINTR>.

=item C<F_GETLK>

With C<F_GETLK> the L<lock()> method determines if and which process currently
is holding the lock. If there's no other lock the L<l_type>
property will be set to C<F_UNLCK>. Otherwise the flock structure object
is set to the values that would prevent us from obtaining a lock. There
may be several processes that keep us from getting a lock, including
some that themselves are blocked waiting to obtain a lock. C<F_GETLK>
will only make details of one of these processes visible, and one has
no control over which process this is.

=back

On success the L<lock()> method returns the string "0 but true",
i.e., a value that is true in boolean but 0 in numeric context. If
the method fails (as indicated by an C<undef> return value) you can
either immediately evaluate the error number (using $!, $ERRNO or
$OS_ERROR) or check for it via the methods discussed below at some
later time.

=back

=head2 Error handling

There are minor differences between File::FcntlLock on the one hand
and File::FcntlLock::Pure and File::FcntlLock::Inline on the other,
due to the first calling
the system function L<fcntl(2)> directly
while the latter two invoke the Perl C<fcntl> function. Perl's
C<fcntl> function already returns a Perl error on some types of
invalid arguments. In contrast File::FcntlLock passes them on to the
L<fcntl(2)> system call and then returns the systems response to the
caller.

There are three methods for obtaining information about the
reason the a call of the L<lock()> method failed:

=over 4

=item C<lock_errno()>

Returns the C<errno> error number from the latest call of L<lock()>.
If the last call did not result in an error C<undef> is returned.

=item C<error()>

Returns a short description of the error that happened during the latest call of L<lock()>. Please take the messages with a grain of salt, they represent what SUSv3 (IEEE 1003.1-2001) and the Linux, TRUE64, OpenBSD3 and Solaris8 man pages tell what the error numbers mean. There could be differences (and additional error numbers) on other systems. If there was no error the method returns C<undef>.

=item C<system_error()>

While the L<error()> method tries to return a string with some direct relevance to the locking operation (i.e., "File or segment already locked by other process(es)" instead of "Permission denied") this method returns the "normal" system error message associated with C<errno>. The method returns C<undef> if there was no error.

=back

=head2 EXPORT

The package exports the following constants:

=over 2

=item F_GETLK F_SETLK F_SETLKW

=item F_RDLCK F_WRLCK F_UNLCK

=item SEEK_SET SEEK_CUR SEEK_END

=back

=head1 INCOMPATIBILITIES

Obviously, this module requires that there's a L<fcntl(2)> system call. Note also that under certain circumstances the File::FcntlLock::Pure and File::FcntlLock::Inline modules may not have been installed. This happens on 32-bit systems that use 64-bit integers in their flock structure but where the installed Perl version doesn't support the 'q' format for its C<pack> and C<unpack> functions.

=head1 CREDITS

Thanks
 to Mark Jason Dominus and Benjamin Goldberg for helpful discussions,
code examples and encouragement. Glenn Herteg pointed out several problems
and also helped improve the documentation. Julian Moreno Patino helped
correcting the documentation and pointed out problems arising on GNU Hurd
which seems to have only very rudimentary support for locking with
L<fcntl(2)>. Niko Tyni and Guillem Jover encouraged and helped with
implementing alternatives to an XS-only approach which hopefully will
make the module more useful under certain circumstances.

=head1 AUTHOR

Jens Thoms Toerring <jt@toerring.de>

=head1 SEE ALSO

L<perl(1)>, L<fcntl(2)>, L<lseek(2)>.

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#
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Package for file locking with fcntl(2) in which the binary layout of

```
# the C flock struct is determined via compiling and running a C program
# each time the package is loaded

package File::FcntlLock::Inline;

use 5.006001;
use strict;
use warnings;
use Fcntl;
use Config;
use File::Temp;
use File::Spec;
use base qw( File::FcntlLock::Core );


our $VERSION = File::FcntlLock::Core->VERSION;

our @EXPORT = @File::FcntlLock::Core::EXPORT;


my ( $packstr, @member_list );


##############################################################

BEGIN {
 # Create a C file in the preferred directory for temporary files for
 # probing the layout of the C 'flock struct'. Since __DATA__ can't
 # be used in a BEGIN block we've got to do with
 a HEREDOC.

 my $c_file = File::Temp->new( TEMPLATE => 'File-FcntlLock-XXXXXX',
        SUFFIX   => '.c',
        DIR      => File::Spec->tmpdir( ) );

 print $c_file <<EOF;
#include <stdio.h>
#include <stddef.h>
#include <stdlib.h>
#include <string.h>
#include <fcntl.h>
#include <limits.h>


#define membersize( type, member ) ( sizeof( ( ( type * ) NULL )->member ) )
#define NUM_ELEMS( p ) ( sizeof p / sizeof *p )

typedef struct {
```

```
   const char * name;
   size_t       size;
   size_t       offset;
}  Params;


/*-------------------------------------------------*
* Called from qsort() for sorting an array of Params structures
* in ascending order of their 'offset' members
*-------------------------------------------------*/

static int
comp( const void * a,
     const void * b )
{
   if ( a == b )
       return 0;
   return ( ( Params * ) a )->offset < ( ( Params * ) b )->offset ? -1 : 1;
}


/*-------------------------------------------------*
*-------------------------------------------------*/

int
main(
 void )
{
   Params params[ ] = { { "l_type",
                          CHAR_BIT * membersize( struct flock, l_type ),
                          CHAR_BIT * offsetof( struct flock, l_type ) },
                        { "l_whence",
                          CHAR_BIT * membersize( struct flock, l_whence ),
                          CHAR_BIT * offsetof( struct flock, l_whence ) },
                        { "l_start",
                          CHAR_BIT * membersize( struct flock, l_start ),
                          CHAR_BIT * offsetof( struct flock, l_start ) },
                        { "l_len",
                          CHAR_BIT * membersize( struct flock, l_len ),
                          CHAR_BIT * offsetof( struct flock, l_len ) },
                        { "l_pid",
                          CHAR_BIT * membersize( struct flock, l_pid ),
                          CHAR_BIT * offsetof( struct flock, l_pid ) } };
   size_t size = CHAR_BIT
 * sizeof( struct flock );
   size_t i;
   size_t pos = 0;
   char packstr[ 128 ] = "";
```

```
 /* All sizes and offsets must be divisable by 8 and the sizes of the
    members must be either 8-, 16-, 32- or 64-bit values, otherwise
    there's no good way to pack them. */

 if ( size % 8 )
     exit( EXIT_FAILURE );

 size /= 8;

 for ( i = 0; i < NUM_ELEMS( params ); ++i )
 {
     if (    params[ i ].size   % 8
          || params[ i ].offset % 8
          || (    params[ i ].size   != 8
               && params[ i ].size   != 16
               && params[ i ].size   != 32
               && params[ i ].size   != 64 ) )
         exit( EXIT_FAILURE );

     params[ i ].size   /= 8;
     params[ i ].offset /= 8;
 }

 /* Sort the array of structures for the members in ascending order of
    the offset */

 qsort( params, NUM_ELEMS( params ), sizeof *params, comp );

 /* Cobble together the template string to be passed
to pack(), taking
    care of padding and also extra members we're not interested in. All
    the interesting members have signed integer types. */

 for ( i = 0; i < NUM_ELEMS( params ); ++i )
 {
if ( pos != params[ i ].offset )
 sprintf( packstr + strlen( packstr ), "x%lu",
    ( unsigned long )( params[ i ].offset - pos ) );
pos = params[ i ].offset;

     switch ( params[ i ].size )
     {
         case 1 :
  strcat( packstr, "c" );
             break;

         case 2 :
```

```
   strcat( packstr, "s" );
            break;

         case 4 :
   strcat( packstr, "l" );
            break;

         case 8 :
#if defined NO_Q_FORMAT
            exit( EXIT_FAILURE );
#endif
   strcat( packstr, "q" );
            break;

         default :
            exit( EXIT_FAILURE );
      }

  pos += params[ i ].size;
   }

  if ( pos < size )
      sprintf( packstr + strlen( packstr ), "x%lu",
               (unsigned long )
 ( size - pos ) );

  printf( "%s\\n", packstr );
  for ( i = 0; i < NUM_ELEMS( params ); ++i )
 printf( "%s\\n", params[ i ].name );

  return 0;
}
EOF

 close $c_file;

 # Try to compile and link the file.

 my $exec_file = File::Temp->new( TEMPLATE => 'File=FcntlLock-XXXXXX',
         DIR      => File::Spec->tmpdir( ) );
 close $exec_file;

  my $qflag = eval { pack 'q', 1 };
  $qflag = $@ ? '-DNO_Q_FORMAT' : '';

 die "Failed to run the C compiler '$Config{cc}'\n"
  if system "$Config{cc} $Config{ccflags} $qflag -o $exec_file $c_file";
```

```
# Run the program and read it's output, it writes out the template string
# we need for packing and unpacking the binary C struct flock required for
# fcntl() and then the members of the structures in the sequence they are
# defined in there.

open my $pipe, '-|', $exec_file
 or die "Failed to run a compiled program: $!\n";

chomp( $packstr = <$pipe> );
while ( my $line = <$pipe> ) {
 chomp $line;
 push @member_list, $line;
}

#
Make sure we got all information needed

  die   "Your Perl version does not support the 'q' format for pack() "
      . "and unpack()\n" unless defined $packstr;

die "Failed to obtain all needed data about the C struct flock\n"
 unless @member_list == 5;
}


##############################################################
# Function for doing the actual fcntl() call: assembles the binary
# structure that must be passed to fcntl() from the File::FcntlLock
# object we get passed, calls it and then modifies the File::FcntlLock
# with the data from the flock structure

sub lock {
  my ( $self, $fh, $action ) = @_;

  my $buf = $self->pack_flock( );
  my $ret = fcntl( $fh, $action, $buf );

  if ( $ret  ) {
 $self->unpack_flock( $buf );
      $self->{ errno } = $self->{ error } = undef;
  } else {
      $self->get_error( $self->{ errno } = $! + 0 );
  }

  return $ret;
}
```

```
##############################################################
# Method for packing the data from
 the 'flock_struct' into a
# binary blob to be passed to fcntl().

sub pack_flock {
   my $self = shift;
 my @args;
 push @args, $self->{ $_ } for @member_list;
   return pack $packstr, @args;
}


##############################################################
# Method for unpacking the binary blob received from a call of
# fcntl() into the 'flock_struct'.

sub unpack_flock {
 my ( $self, $data ) = @_;
 my @res = unpack $packstr, $data;
 $self->{ $_ } = shift @res for @member_list;
}


=cut


1;


# Local variables:
# tab-width: 4
# indent-tabs-mode: nil
# End:
```

Found in path(s):
* /opt/cola/permits/2134358866_1722973784.6535976/0/libfile-fcntllock-perl-0-22-orig-1-tar-gz/File-FcntlLock-0.22/Inline_build/Inline.pm.in

1.4738 liburcu 0.14.0-3.1build1

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If distribution of object code is made by offering access to copy

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That's all there is to it!
Mathieu Desnoyers
May 13th, 2009

IBM Corporation allowed LGPLv2.1+ licensing of their contribution to the
userspace RCU library in a patch submitted on May 8, 2009 from Paul E.
McKenney and reviewed by Steven L. Bennett:

https://lists.lttng.org/pipermail/lttng-dev/2009-May/012835.html

I (Mathieu Desnoyers) re-implemented ACCESS_ONCE(), likely(), unlikely() and
barrier() from scratch without reference to the original code.

commit id : 2dc5fa0f7cfbfb0a64a7a67b39626650e863f16a

Bert Wesarg <bert.wesarg@googlemail.com> approved LGPL relicensing of his
patch in an email dated May 13, 2009 :

http://lkml.org/lkml/2009/5/13/16

xchg() primitives has been rewritten from a MIT-licensed cmpxchg for Intel
and powerpc. They are MIT-licensed and therefore usable in LGPL code.
This cmpxchg code was obtained from the atomic_ops project:

http://www.hpl.hp.com/research/linux/atomic_ops/

I (Mathieu Desnoyers) wrote the remainder of the code.

The license for the library files in this project
was therefore changed to
LGPLv2.1 on May 13, 2009, as detailed in LICENSE.

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1.4740 cpp 13.2.0-7ubuntu1

1.4740.1 Available under license :

This is the Debian GNU/Linux prepackaged version of the GNU compiler
collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C,
Objective-C++, and Modula-2 compilers, documentation, and support
libraries. In addition, Debian provides the gm2 compiler, either in
the same source package, or built from a separate same source package.
Packaging is done by the Debian GCC Maintainers
<debian-gcc@lists.debian.org>, with sources obtained from:

ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)
svn://gcc.gnu.org/svn/gcc/ (for prereleases)
ftp://sourceware.org/pub/newlib/ (for newlib)
git://git.savannah.gnu.org/gm2.git (for Modula-2)

The current gcc-13 source package is taken from the git gcc-13-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

Language	Compiler package	Library package	Documentation
Ada	gnat-13	libgnat-13	gnat-13-doc
C	gcc-13		gcc-13-doc
C++	g++-13	libstdc++6	libstdc++6-13-doc
D	gdc-13		
Fortran 95	gfortran-13	libgfortran5	gfortran-13-doc
Go	gccgo-13	libgo0	
Objective C	gobjc-13	libobjc4	
Objective C++	gobjc++-13		
Modula-2	gm2-13	libgm2	

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

Language	Sources	Development	Debugging	Position-Independent
C++			libstdc++6-13-dbg	libstdc++6-13-pic
D		libphobos-13-dev		

Additional packages include:

All languages:

libgcc1, libgcc2, libgcc4	GCC intrinsics (platform-dependent)
gcc-13-base	Base files common to all compilers
gcc-13-soft-float	Software floating point (ARM only)
gcc-13-source	The sources with patches

Ada:

libgnat-util13-dev, libgnat-util13	GNAT version library

C:

cpp-13, cpp-13-doc	GNU C Preprocessor
libssp0-dev, libssp0	GCC stack smashing protection library
libquadmath0	Math routines for the __float128 type
fixincludes	Fix non-ANSI header files

C, C++ and Fortran 95:

libgomp1-dev, libgomp1 GCC OpenMP (GOMP) support library
libitm1-dev, libitm1 GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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libquadmath/math/

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copysignq.c, coshq.c, cosq.c, erfq.c, fabsq.c, finiteq.c, floorq.c,
fmodq.c, frexpq.c, hypotq.c, ilogbq.c, isnanq.c, jnq.c, ldexpq.c,
logbq.c, modfq.c, nearbyintq.c,
nextafterq.c, powq.c, remainderq.c,
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D:

gdc-13	GNU D Compiler
libphobos-13-dev	D standard runtime library

The D source package is made up of the following components.

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The Phobos standard runtime library:
- d/phobos/*

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```

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```
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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1.4742 rpcsvc-proto 1.4.2-0ubuntu7

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1.4743 vixie-cron 3.0pl1-184ubuntu2

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*/
```

$Id: INSTALL,v 2.5 1994/01/15 20:43:43 vixie Exp $

Read the comments at the top of the Makefile, then edit the area marked
'configurable
 stuff'.

Edit config.h. The stuff I expect you to change is down a bit from the
top of the file, but it's clearly marked. Also look at pathnames.h.

You don't have to create the /var/cron or /var/cron/tabs directories, since
both the daemon and the `crontab' program will do this the first time they
run if they don't exist. You do need to have a /var, though -- just "mkdir
/var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var"
if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you
change the Makefile. These will have to be created by hand, but if you are
a long-time Usenet user you probably have them already. /usr/local/man is
where I keep my man pages, but I have the source for `man' and you probably
do not. Therefore you may have to put the man pages into /usr/man/manl,
which will be hard since there will be name collisions. (Note that the man
command was originally written by
 Bill Joy before he left Berkeley, and it
contains no AT&T code, so it is in UUNET's archive of freely-distributable
BSD code.)

LINUX note: /usr/include/paths.h on some linux systems shows _PATH_SENDMAIL
 to be /usr/bin/sendmail even though sendmail is installed in /usr/lib.
 you should check this out.

say:
 make all

su and say:
 make install

Note that if I can get you to "su and say" something just by asking, you have
a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file

for help on this.

Use the `crontab' command to install all the little pieces you just created.
Some examples (see below before trying any of these!)

```
 crontab -u uucp -r /usr/lib/uucp/crontab.src
 crontab -u news -r /usr/lib/news/crontab.src
 crontab -u root -r /usr/adm/crontab.src
```

Notes on above examples: (1) the .src files are copied at the time the
command is issued; changing the source files later will have
 no effect until
they are reinstalled with another `crontab -r' command. (2) The crontab
command will affect the crontab of the person using the command unless `-u
USER' is given; `-u' only works for root.  When using most `su' commands
under most BSD's, `crontab' will still think of you as yourself even though
you may think of yourself as root -- so use `-u' liberally.  (3) the `-r'
option stands for `replace'; check the man page for crontab(1) for other
possibilities.

Kill your existing cron daemon -- do `ps aux' and look for /etc/cron.

Edit your /etc/rc or /etc/rc.local, looking for the line that starts up
/etc/cron. Comment it out and add a line to start the new cron daemon
-- usually /usr/local/etc/cron, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type /usr/local/etc/cron
(or whatever); no '&' is needed since the daemon forks itself and the
process you executed returns immediately.

ATT notes: for those people unfortunate enough to
 be stuck on a AT&T UNIX,
you will need the public-domain "libndir", found in the B News source and in
any comp.sources.unix archive. You will also need to hack the code some.

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* /opt/cola/permits/2134358648_1730201383.6588006/0/cron-3-0pl1-orig-tar/cron-3.0pl1.orig/crontab.c
* /opt/cola/permits/2134358648_1730201383.6588006/0/cron-3-0pl1-orig-tar/cron-3.0pl1.orig/config.h
*
 /opt/cola/permits/2134358648_1730201383.6588006/0/cron-3-0pl1-orig-tar/cron-3.0pl1.orig/database.c
* /opt/cola/permits/2134358648_1730201383.6588006/0/cron-3-0pl1-orig-tar/cron-3.0pl1.orig/job.c
* /opt/cola/permits/2134358648_1730201383.6588006/0/cron-3-0pl1-orig-tar/cron-3.0pl1.orig/misc.c
* /opt/cola/permits/2134358648_1730201383.6588006/0/cron-3-0pl1-orig-tar/cron-3.0pl1.orig/do_command.c
* /opt/cola/permits/2134358648_1730201383.6588006/0/cron-3-0pl1-orig-tar/cron-3.0pl1.orig/env.c
* /opt/cola/permits/2134358648_1730201383.6588006/0/cron-3-0pl1-orig-tar/cron-3.0pl1.orig/compat.c
* /opt/cola/permits/2134358648_1730201383.6588006/0/cron-3-0pl1-orig-tar/cron-3.0pl1.orig/cron.c
* /opt/cola/permits/2134358648_1730201383.6588006/0/cron-3-0pl1-orig-tar/cron-3.0pl1.orig/entry.c
* /opt/cola/permits/2134358648_1730201383.6588006/0/cron-3-0pl1-orig-tar/cron-3.0pl1.orig/cron.h
* /opt/cola/permits/2134358648_1730201383.6588006/0/cron-3-0pl1-orig-tar/cron-3.0pl1.orig/user.c
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*
* @(#)bitstring.h 5.2
 (Berkeley) 4/4/90
*/

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* /opt/cola/permits/2134358648_1730201383.6588006/0/cron-3-0pl1-orig-tar/cron-3.0pl1.orig/crontab.1
* /opt/cola/permits/2134358648_1730201383.6588006/0/cron-3-0pl1-orig-tar/cron-3.0pl1.orig/crontab.5
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*/

Vixie Cron V3.0
December 27, 1993
[V2.2 was some time in 1992]
[V2.1 was May 29, 1991]
[V2.0 was July 5, 1990]
[V2.0-beta
 was December 9, 1988]
[V1.0 was May 6, 1987]
Paul Vixie

This is a version of 'cron' that is known to run on BSD 4.[23] systems. It
is functionally based on the SysV cron, which means that each user can have

their own crontab file (all crontab files are stored in a read-protected
directory, usually /var/cron/tabs). No direct support is provided for
'at'; you can continue to run 'atrun' from the crontab as you have been
doing. If you don't have atrun (i.e., System V) you are in trouble.

A messages is logged each time a command is executed; also, the files
"allow" and "deny" in /var/cron can be used to control access to the
"crontab" command (which installs crontabs). It hasn't been tested on
SysV, although some effort has gone into making the port an easy one.

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To use this: Sorry, folks, there is no cutesy 'Configure' script. You'll
have to go edit a couple of files... So, here's the checklist:

```
 Read all the FEATURES, INSTALL, and CONVERSION files
 Edit config.h
 Edit Makefile
  (both of these files have instructions inside; note that
   some things in config.h are definable in Makefile and are
   therefore surrounded by #ifndef...#endif)
 'make'
 'su' and 'make install'
  (you may have to install the man pages by hand)
 kill your existing cron process
  (actually you can run your existing cron if you want, but why?)
 build new crontabs using /usr/lib/{crontab,crontab.local}
  (either put them all in "root"'s crontab, or divide it up
   and rip out all the 'su' commands, collapse the lengthy
   lists into
 ranges with steps -- basically, this step is
   as much work as you want to make it)
 start up the new cron
  (must be done as root)
 watch it. test it with 'crontab -r' and watch the daemon track your
  changes.
 if you like it, change your /etc/{rc,rc.local} to use it instead of
  the old one.
```

$Id: README,v 2.3 1993/12/28 08:34:43 vixie Exp $

Found in path(s):

* /opt/cola/permits/2134358648_1730201383.6588006/0/cron-3-0pl1-orig-tar/cron-3.0pl1.orig/README
No license file was found, but licenses were detected in source scan.

```
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*
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```

Found in path(s):
* /opt/cola/permits/2134358648_1730201383.6588006/0/cron-3-0pl1-orig-tar/cron-3.0pl1.orig/popen.c
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* I'll try to keep a version up to date.  I can be reached as follows:
* Paul Vixie          <paul@vix.com>          uunet!decwrl!vixie!paul
*/
```

Found in path(s):
* /opt/cola/permits/2134358648_1730201383.6588006/0/cron-3-0pl1-orig-tar/cron-3.0pl1.orig/externs.h
* /opt/cola/permits/2134358648_1730201383.6588006/0/cron-3-0pl1-orig-tar/cron-3.0pl1.orig/compat.h

*
/opt/cola/permits/2134358648_1730201383.6588006/0/cron-3-0pl1-orig-tar/cron-3.0pl1.orig/pathnames.h

1.4744 strace 6.8-0ubuntu2

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1.4750 libmspack 0.11-1.1build1

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1.4752 lsof 4.95.0-1build3

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*/
/*
* GetOpt() -- Local get option
*
* Borrowed from lsof's main.c source file.
*
* Liberally adapted from the public domain AT&T getopt() source,
* distributed at the 1985 UNIFORM conference in Dallas
*
```

```
* The modifications allow `?' to be an option character and allow
* the caller to decide that an option that may be followed by a
* value doesn't have one -- e.g., has a default instead.
*/
```

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* /opt/cola/permits/2134360459_1722972872.2498574/0/lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/tests/LTlib.c
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* /opt/cola/permits/2134360459_1722972872.2498574/0/lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/print.c
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*/
/* Extended regular expression matching and search library,
  version 0.12.
  (Implements POSIX draft P1003.2/D11.2, except for some of the
  internationalization features.)
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*/
/* Definitions for data structures and routines for the regular
  expression library, version 0.12.
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#!/usr/bin/perl
#
# idrlogin.pl    -- sample Perl 5 script to identify the network source of a
#      network (remote) login via rlogind, sshd, or telnetd
```

```
# IMPORTANT DEFINITIONS
# ======================
#
# 1.  Set the interpreter line of this script to the local path of the
#     Perl 5 executable.


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# Initialize variables.

$dev = $faddr = $tty = "";     # fd variables
$pidst = 0;       # process state
$cmd = $login = $pgrp = $pid = $ppid = "";   # process var.

# Set path to lsof.

if (($LSOF = &isexec("../lsof")) eq "") { # Try .. first
   if (($LSOF = &isexec("lsof")) eq "") { # Then try . and $PATH
 print "can't execute $LSOF\n"; exit 1
   }
}
```

```
# Open a pipe from lsof

if (! -x "$LSOF") { die "Can't execute $LSOF\n"; }
open (P, "$LSOF -R -FcDfLpPRn0|") || die "Can't pipe from $LSOF\n";

# Process the lsof output a line at a time

while (<P>) {
   chop;
   @F = split('\0', $_, 999);
   if ($F[0] =~ /^p/) {

# A process set begins with a PID field
 whose ID character is `p'.

 if ($pidst) { &save_proc }
 foreach $i (0 .. ($#F - 1)) {

     PROC: {
  if ($F[$i] =~ /^c(.*)/) { $cmd = $1; last PROC }
  if ($F[$i] =~ /^p(.*)/) { $pid = $1; last PROC }
  if ($F[$i] =~ /^R(.*)/) { $ppid = $1; last PROC }
  if ($F[$i] =~ /^L(.*)/) { $login = $1; last PROC }
     }
 }
 $pidst = 1;
 next;
   }

# A file descriptor set begins with a file descriptor field whose ID
# character is `f'.

   if ($F[0] =~ /^f/) {
 if ($faddr ne "") { next; }
 $proto = $name = "";
 foreach $i (0 .. ($#F - 1)) {

     FD: {
  if ($F[$i] =~ /^P(.*)/) { $proto = $1; last FD; }
  if ($F[$i] =~ /^n(.*)/) { $name = $1; last FD; }
  if ($F[$i] =~ /^D(.*)/) { $dev = $1; last FD; }
     }
 }
 if ($proto eq "TCP"
 &&  $faddr eq ""
 &&  (($cmd =~ /rlogind/) || ($cmd =~ /sshd/) || ($cmd =~ /telnetd/))) {
     if (($name =~ /[^:]*:[^-]*->([^:]*):.*/)) {
  $faddr = $1;
```

```
    }
 } elsif ($tty eq "" && ($cmd =~ /.*sh$/)) {
    if (($name =~ m#/dev.*ty.*#)) {
  ($tty) = ($name
 =~ m#/dev.*/(.*)#);
    } elsif (($name =~ m#/dev/(pts/\d+)#)) {
  $tty = $1;
    } elsif (($name =~ m#/dev.*pts.*#)) {
  $d = oct($dev);
  $tty = sprintf("pts/%d", $d & 0xffff);
    }
 }
 next;
   }
}

# Flush any stored file or process output.

if ($pidst) { &save_proc }

# List the shell processes that have rlogind/sshd/telnetd parents.

$hdr = 0;
foreach $pid (sort keys(%shcmd)) {
   $p = $pid;
   if (!defined($raddr{$pid})) {
       for ($ff = 0; !$ff && defined($Ppid{$p}); ) {
     $p = $Ppid{$p};
     if ($p < 2 || defined($raddr{$p})) { $ff = 1; }
       }
   } else { $ff = 2; }
   if ($ff && defined($raddr{$p})) {
 if (!$hdr) {
     printf "%-8.8s %-8.8s %6s %-10.10s %6s %-10.10s %s\n",
  "Login", "Shell", "PID", "Via", "PID", "TTY", "From";
     $hdr = 1;
 }
 printf "%-8.8s %-8.8s %6d %-10.10s %6s %-10.10s %s\n",
     $shlogin{$pid}, $shcmd{$pid}, $pid,
     ($ff == 2) ? "(direct)" : $rcmd{$p},
     ($ff == 2) ? "" : $p,
     ($shtty{$pid} eq "") ? "(unknown)" : $shtty{$pid},

    $raddr{$p};
   }
}
exit(0);
```

```
# save_proc -- save process information
#       Values are stored inelegantly in global variables.

sub save_proc {
   if (!defined($Ppid{$pid})) { $Ppid{$pid} = $ppid; }
   if ($faddr ne "") {
 $raddr{$pid} = $faddr;
 if (($cmd =~ /.*sh$/)) {
     $shcmd{$pid} = $cmd;
     $shlogin{$pid} = $login;
 } else { $rcmd{$pid} = $cmd; }
   }
   if ($tty ne "") {
 $shcmd{$pid} = $cmd;
 $shtty{$pid} = $tty;
 $shlogin{$pid} = $login;
   }

# Clear variables.

   $cmd = $dev = $faddr = $pgrp = $pid = $ppid = $tty = "";
   $pidst = 0;
}


## isexec($path) -- is $path executable
#
# $path   = absolute or relative path to file to test for executabiity.
#     Paths that begin with neither '/' nor '.' that arent't found as
#     simple references are also tested with the path prefixes of the
#     PATH environment variable.

sub
isexec {
   my ($path) = @_;
   my ($i, @P, $PATH);

   $path =~ s/^\s+|\s+$//g;
   if ($path eq "") { return(""); }
    if (($path =~ m#^[\/\.]#)) {
 if (-x $path) { return($path); }
 return("");
   }
   $PATH = $ENV{PATH};
   @P = split(":", $PATH);
   for ($i = 0; $i <= $#P; $i++) {
 if (-x "$P[$i]/$path") { return("$P[$i]/$path"); }
```

```
  }
  return("");
}
```

Found in path(s):
* /opt/cola/permits/2134360459_1722972872.2498574/0/lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/scripts/idrlogin.pl
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Notes for the distribution of lsof version 4

```
**********************************************************************
| The latest release of lsof is always available from
| https://github.com/lsof-org/lsof/releases
|
| From 4.92.1, git is introduced to manage changes.
| You can consult the details of changes with git.
**********************************************************************
```

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Dialects Supported
==========

Lsof (for LiSt Open Files) lists files opened by processes on selected Unix systems. Version 4 is a source reorganization of version 3, itself a major revision of version 2. Version 4 has been tested on:

Apple Darwin 9 and Mac OS X 10.[567]
FreeBSD 10.3, 11.0, 12.0 and 13.0 for AMD64-based systems
Solaris 9

(The pub/tools/unix/lsof/contrib directory on lsof.itap.purdue.edu contains information on other ports.)

If your favorite Unix dialect is not in the list, or if your version of it is more recent than the ones listed, please contact me at <abe@purdue.edu>.

Version 3 of lsof was tested on:

AIX 3.2.5, 4.1[.[1234]], and 4.2
BSDI BSD/OS 2.0, 2.0.1, and 2.1 for x86-based systems
DC/OSx
1.1 for Pyramid systems
Digital UNIX (DEC OSF/1) 2.0, 3.0, 3.2, and 4.0
EP/IX 2.1.1 for the CDC 4680
FreeBSD 1.1.5.1, 2.0, 2.0.5, 2.1, 2.1.5 for x86-based systems
HP-UX 8.x, 9.x, 10.01, 10.10, and 10.20
IRIX 5.2, 5.3, 6.0, 6.0.1, and 6.[124]
Linux through 2.0.27 for x86-based systems
NetBSD 1.0, 1.1, and 1.2 for x86 and SPARC-based systems
NEXTSTEP 2.1 and 3.[0123]
OpenBSD 1.2 and 2.0 for x86-based systems
Reliant UNIX 5.43 for Pyramid systems
RISC/os 4.52 for MIPS R2000-based systems
SCO OpenServer Release 1.1, 3.0, and 5.0.x for x86-based systems
SCO UnixWare 2.1 and 2.1.1 for x86-based systems
Sequent PTX 2.1.[1569], 4.0.[23], 4.1.[024], 4.2[.1], and 4.3
Solaris 2.[12345], 2.5.1, and 2.6-Beta
SunOS 4.1.x
Ultrix 4.2, 4.3, 4.4, and 4.5

Version 3 and its predecessor, version 2, may be found at:

ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/OLD

How Lsof Works
==========

Using available kernel data access methods -- getproc(), getuser(), kvm_*(),
nlist(), pstat(), read(), readx(), /proc -- lsof reads
process table entries, task table entries, user areas and file
pointers to reach the underlying structures that describe files
opened by processes.

Lsof interprets most file node structures -- advfsnodes, autonodes, cnodes, cdrnodes, devnodes, fifonodes, gnodes, hsnodes, inodes, mfsnodes, pcnodes, procnodes, rnodes, snodes, specnodes, s5inodes, tmpnodes. It understands NFS connections. It recognizes FIFOs, multiplexed files, Unix and Internet sockets. It knows about streams. It understands /proc file systems for some dialects. On many dialects it recognizes execution text and library references. It knows about AFS on some Unix dialects.

Lsof Output
==========

The lsof output describes:

* the identification number of the process (PID) that has opened the file;

* the process group identification number (PGID) of the process (optional);

* the process identification number of the parent process (PPID) (optional);

* the command the process is executing;

* the owner of the process;

* for all files in use by the process, including the executing text file and the shared libraries it is using:

  * the file descriptor number of the file, if applicable;

* the file's access mode;

* the file's lock status;

* the file's device numbers;

* the file's inode number;

* the file's size or offset;

* the name of the file system containing the file;

* any available components of the file's path name;

* the names of the file's stream components;

* the file's local and remote network addresses;

* the TLI network (typically UDP) state of the file;

* the TCP state, read queue length, and write queue length of the file;

* the file's TCP window read and write lengths (Solaris only);

* other file or dialect-specific values.

Getting Started Quickly

If you want to get started using lsof quickly, or see some examples of how lsof can be used, consult the 00QUICKSTART file of the lsof distribution.

The 00QUICKSTART file won't help you build or install lsof, but it will cut through the density of the lsof man page, giving you more readily an idea of what you can do with lsof.

For information on building and installing lsof, consult the 00README file of the lsof distribution.

Limiting, Filtering, and Selecting Lsof Output

Lsof accepts options to limit, filter, and select its output.
These are the possible criteria:

* Process ID (PID) number -- to list the open files for a given process;

* Process Group ID (PGID) -- to list the open files for all the processes of a given process group;

* User ID number or login name -- to list the open files for all the processes of a given user;

* Internet address -- to list the open files using a given Internet address (host name), protocol, or port (number or name); or to list all open Internet files;

* command name;

* file descriptor name or number;

* list all open NFS files;

* list all open Unix domain socket files;

* list all uses of a specific file;

* list all open files on a file system.

Selection options are normally ORed -- i.e., an open file meeting any of the criteria is listed. The selection options may be ANDed so that an open file will be listed only if it meets all the criteria.

In the absence of any selection criteria, lsof lists files open to all processes.

Parsing Lsof Output with Another Program

The lsof -F option directs it to produce "field" output that can easily be parsed by another program. The lsof distribution contains sample awk, perl 4, and perl 5 scripts in its scripts subdirectory that show how to post-process field output.

Repeat Mode

==========

Lsof can be directed to produce
 output, delay for a specified time,
then repeat the output, cycling until stopped by an interrupt or
quit signal. This mode is useful for monitoring the status of some
file operation -- e.g., an ftp transfer or a tape backup operation.

Repeat mode is more efficient when combined with lsof's selection
options, since they limit lsof overhead.

It's possible to use lsof's field output options to supply repeat
mode output to another process for its manipulation. The scripts
subdirectory of the lsof distribution has sample Perl scripts
showing how to consume lsof repeat mode output from a pipe.

Distribution Restrictions
==========

Lsof may be used and distributed freely, subject to these limitations:

1. Neither the author nor Purdue University is responsible for
  any consequences of the use of this software.

2. The origin of this software must not be misrepresented, either
  by explicit claim or by omission. Credit to the author and
  Purdue University must appear
 in documentation and sources.

3. Altered versions must be plainly marked as such, and must not
  be misrepresented as being the original software.

4. This notice may not be removed from or altered in the lsof source
  files.

Cautions
========

Lsof is a tool that is closely tied to the Unix operating system
version. It uses header files that describe kernel structures and
reads kernel structures that typically change from OS version to
OS version.

DON'T TRY TO USE AN LSOF BINARY, COMPILED FOR ONE UNIX OS VERSION,
ON ANOTHER.

On some Unix dialects, notably SunOS and Solaris, lsof versions may be even more restricted by architecture type. An lsof binary, compiled for SunOS 4.1.3 on a sun4c machine, for example, won't work on a sun4m machine.

AN LSOF BINARY, COMPILED FOR ONE SOLARIS 1.X ARCHITECTURE, ISN'T GUARANTEED TO WORK ON A DIFFERENT SOLARIS 1.X ARCHITECTURE.

Distribution Contents
==========

The lsof distribution is checked for completeness when it is constructed
and by the Inventory script when you run the Configure script. (See The Inventory Script section of the 00README file of this distribution.)

Lsof is organized in these parts:

* The main lsof directory, containing common sources, configuration and setup scripts and three subdirectories: dialects/, lib/, and scripts/.

  Lsof is compiled in the main lsof directory after configuration. The selected dialect sources are copied or linked from the specified subdirectory. (Symbolic linking is the standard method.)

  Common lsof definitions may be found in lsof.h; common function prototypes, proto.h; and common storage, store.c.

* The dialects/ subdirectory contains subdirectories with sources specific to UNIX dialect implementations -- e.g., the dialects/sun/ subdirectory contains sources for the SunOS (Solaris 1.x) and Solaris (2.x) implementations of lsof. The dialects subdirectories also
contain Makefiles
  and scripts for assisting dialect source configuration.

  Dialect configuration definitions may be found in dlsof.h; other dialect definitions, dlsof.h; dialect prototypes, dproto.h; and dialect storage, dstore.c.

* The lib/ subdirectory contains sources for common lsof functions. Not all dialects use the functions -- some have their own versions of them. The lib/ functions are enabled and customized with #define's in the dialect machine.h header

files.

* The scripts/ subdirectory contains sample scripts for processing lsof field (-F) output. The scripts are written in AWK, Perl 4, and Perl 5.

The 00PORTING file of the lsof distribution has more information on lsof components, configuration, and construction.

Warranty

Lsof is provided as-is without any warranty of any kind, either expressed or implied, including, but not limited to, the implied warranties of merchantability
and fitness for a particular purpose.
The entire risk as to the quality and performance of lsof is with you. Should lsof prove defective, you assume the cost of all necessary servicing, repair, or correction.

Bug Reports

Now that the obligatory disclaimer is out of the way, let me hasten to add that I accept lsof bug reports and try hard to respond to them. I will also consider and discuss requests for new features, ports to new dialects, or ports to new OS versions.

PLEASE DON'T SEND A BUG REPORT ABOUT LSOF TO THE UNIX DIALECT VENDOR.

At worst such a bug report will confuse the vendor; at best, the vendor will forward the bug report to me.

Please send all bug reports, requests, etc. to me via email at <abe@purdue.edu>.

The lsof-l Mailing List

Information about lsof, including notices about the availability of new revisions, may be found in mailings of the lsof-l listserv. For more information about it, including instructions on how
to
subscribe, read the 00LSOF-L file of the lsof distribution.

Version 3 Release Notes
==========

See 00DIST in the last lsof 3 revision 3.88, for its complete
set of release notes. Lsof revision 3.88 may be found at:

 ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/OLD

3.0 May 24, 1994
  This is the first official release of lsof 3.

...

3.88 February 17, 1997

```
  +=====================================+
  | This is the last version 3 revision. |
  +=====================================+
```

  Added documentation files -- 00.README.FIRST[_<version>]
  and 00RELEASE.SUMMARY_<version> -- to the distribution.

What's new in Version 4
==========

The main goal of version 4 was to eliminate the confusing common/
fragment source file technique. Changing the version number also
provided an opportunity to restart the numbering, which at 3.88
had risen to a large value.

The sources that appeared in the dialects/common subdirectory of
version 3 in fragment files
 have been incorporated into the version
4 liblsof.a library as *.c files. This results in significant
changes to many source files, scripts, and Makefiles of all dialect
versions. It allows elimination of some source files -- ddev.c,
dfile.c, dmnt.c -- for dialects now obtaining functions from
liblsof.a that formerly came from making dialect source files by
combining fragment files.

The version 4 liblsof.a sources are stored in the lib/ subdirectory
of the main lsof directory. The liblsof.a functions are activated
and conditioned in their source files by values #define'd in the
dialect dlsof.h and machine.h header files.

Dialects that provide a private version of a library function refrain
from #define'ing the symbol that would activate the library function
code.

Version 4 Release Notes
==========

4.0 February 24, 1997

```
+=====================================+
| This is the first lsof 4 revision. |
+=====================================+
```

Reorganized sources:
eliminated code fragment files
and created a library in their place. Modified or
deleted many dialect source and header files.
Changed documentation accordingly.

Added a warning to sgi/Makefile and 00FAQ that advises
against using the IRIX C compiler -n32 option when
compiling lsof. Thanks go to Peter Ilieve
<peter@memex.co.uk> for bringing this to my attention.

Dropped IRIX 5.2 in mid-stream, because my 5.2 test
system was upgraded to 5.3.

4.01 March 3, 1997
Added TFS support for Pyramid dialects.

Added test to Configure and to the IRIX dnode.c
for the different cnode struct that appears in
<cachefs/cachefs_fs.h> on the 6.2 IMPACT distribution.
Heddy Boubaker <boubaker@amfou.cenatls.cena.dgac.fr>
alerted me to the cnode change and helped test this
lsof adjustment.

Shut down the lsof child process before doing a -r
sleep(). A comment from Dan Mercer <dam@mmm.com>
prompted this.

4.02 March 21, 1997

Based on a report from Pasi Kaara
<Pasi.Kaara@atk.tpo.fi>,
disabled HP-UX CCIT support in lsof for HP-UX
versions 10 and above. Pasi's report also led to

changes in the HP-UX machine.h to support use of
gcc to compile lsof for HP-UX 10.20 and warnings
against using `cc -Aa` or `gcc -ansi` to compile
lsof under HP-UX 10.x.

With help from Richard Allen <ra@hp.is> taught
HP-UX 10.x lsof to name file systems better by
using the virtual file system device number. Elias
Halldor Agustsson <elias@rhi.hi.is> provided a test
system.

Changed NEXTSTEP and UNIXWARE Makefiles to use
safer quoting when generating version.h. The change
was suggested by Bob Farmer <ucs_brf@unx1.shsu.edu>.

Added SHELL=/bin/sh string to all Makefiles.

Added support for Linux 2.1.28 on a test system,
kindly provided by Jonathan Sergent <sergent@purdue.edu>.
Configure tests the Linux 2.1.x's C library lseek()
function for proper handling of kernel offsets.
If lseek() appears suspect, Configure activates
the
use of a private lseek() function. Changed
the private nlist() function to nlist_private()
and taught it to use the query_module() syscall in
place of the deprecated get_kernel_syms() one.
Added rudimentary AX.25 support for Pierfrancesco
Caci <ik5pvx@infogroup.it> who helped test it.
Updated the old get_kernel_syms() code to recognize
and skip module name entries.

Prompted by Marty Leisner <leisner@sdsp.mc.xerox.com>,
eased the requirement that service name lookup for
the -i option be accompanied by a protocol name. The
name is not needed if both TCP and UDP names yield the
same port number.

Added xusers.awk script from Dan Mercer <damercer@mmm.com>
to the distribution scripts/ subdirectory.

Changed Configure script to use LSOF_VERS for all
UNIX dialect version numbers and to pass LSOF_VERS
to the dialect Mksrc functions. Also added the
ability for a dialect stanza to declare a different
dialect Makefile source. Modified dialect Mksrc
files

-- e.g., linux and sun -- accordingly.

Added support for BSD/OS 3.0 with help from Jim Reid <jim@mpn.cp.philips.com>. Terry Kennedy <TERRY@spcvxa.spc.edu> kindly provided a test system. During the port corrected a bug that prevented proper handling of revoked files.

4.03 April 7, 1997

At the suggestion of Dan Mercer <damercer@mmm.com>, made HP-UX building of lsof aware of differences between the HP-UX bundled and unbundled C compilers.

Added the ability for the lsof builder to define the default warning message issuance state. By default the issuance of warning messages is disabled; defining WARNINGSTATE in machine.h disables it. The Customize script was updated to handle WARNINGSTATE. Dan Mercer suggested this.

Eliminated compiler complaint about improperly cast get_Nl_value() argument in ncache_load() in lib/rnch.c.

Corrected zeromem() argument error in SCO dproc.c.
Sped up parent directory cache lookup slightly.

Updated for PTX 4.4,
including additional VxFS (EFS)
file system support.

4.04 April 17, 1997

At the suggestion of Bela Lubkin <belal@sco.COM> changed device cache handling to be more tolerant of a device cache file whose [cm]times are older than the ones on /dev or /devices. The change required adding information to Solaris device cache file clone lines, so the first time lsof 4.04 is run under Solaris it will complain about a bad cached clone device in a previous device cache file, then regenerate it.

Added boot file path detection for SCO OSR 5 and above, based on information supplied by Bela.

Fixed two bugs in DEC OSF/1 lsof -- an error in reporting locks and a missing continue statement in readdev() after a failure to open a directory.
Jan Ole Suhr <josuhr@informatik.tu-clausthal.de>

reported the second bug and supplied a fix.

Fixed XFS problems with IRIX 6.2 by abandoning the idea that SGI will distribute XFS header files and defining an lsof-private xfs_inode structure. John Paul Morrison <John.Paul.Morrison@MultiActive.com> helped develop and test the 5.3 definition. John R. Vanderpool <fish@daacdev1.gsfc.nasa.gov> helped develop and test the 6.2 definition.

Remove obsolete comments about common/*.frag files.

Updated Linux lsof for Linux version 2.1.35.

4.04 April 18, 1997

Supplement Regenerated the 4.04 distribution to correct a non-device-cache #define misplacement in the Solaris and SunOS dlsof.h. Alexandre Oliva <oliva@dcc.unicamp.br> reported the problem.

4.05 April 24, 1997

Corrected an error in 00DCACHE.

Made sure SCO /etc/ps/booted.systems is closed.

Based on an observation by Bela Lubkin <belal@sco.COM> that the lsof child had needless file descriptors open, closed all but the open pipes between the lsof parent and child.

Decommissioned CDC EP/IX support; I no longer have a test system.

Based on a suggestion from Patrick Connor <connor@phreak.csd.sgi.com>, added -xansi to CFLAGS for IRIX 5.3 and 6.[234].

Also at Patrick's suggestion changed Configure to propagate exact SunOS 4.1.x version to the main and library Makefiles. This allowed the sunos413 and sunos413cc Configure abbreviations to be shortened to sunos and sunoscc.

Updated obsolete argument uses (-H changed to -n) in count_pf.perl* and watch_a_file.perl scripts.

Adjusted Solaris 2.6 lsof for Beta_Update with tips
from Casper Dik <casper@holland.Sun.COM>.

Fixed a Solaris 2.4 TCP address reporting bug.

4.06 April 30, 1997
Added a step to the Makefile clean rules that does
a make clean in the lib subdirectory; suggested by
Casper Dik <casper@holland.Sun.COM>. (Configure's
-clean argument already did this.)

Fixed an incorrect awk argument in the sunos*)
Configure stanza, reported by Alexandre Oliva
<oliva@dcc.unicamp.br>.

Added CD9660 (aka ISO) file system support to
FreeBSD, NetBSD, and OpenBSD with mods and help
from Kenneth Stailey <kstailey@disclosure.com>.
(BSDI
already had CD9660 support.) While at it,
added file descriptor system support to BSDI and
FreeBSD.

Added /kern file system support to OpenBSD. The
support wasn't extended to BSDI, FreeBSD, or NetBSD,
because it requires Kenneth Stailey's changes to
/sys/miscfs/kernfs/kernfs.h.

Updated IRIX 6.3 support after getting access to
a test system, provided by John Paul Morrison
<John.Paul.Morrison@MultiActive.com>. Improved
the handling of IRIX 5.1 and greater FIFOs.

4.07 May 12, 1997
Based on AIX problem reports from David Capshaw
<David.Capshaw@SEMATECH.Org>, changed the aix*
Configure script stanza to avoid -bnolibpath for
gcc (which the GNU loader doesn't grok) and AIX
below 4.1.4 (where -bnolibpath hasn't been tested
or is known to be unimplemented), and to refuse to
use gcc for compiling lsof in AIX versions below
4.1 (because of possible structure alignment
problems). Updated 00FAQ appropriately.

Added OpenBSD support
for EXT2FS. This support
has yet to be tested.

Tested lsof under OpenBSD 2.1.

Activated /kern file system support for NetBSD when Configure senses that /sys/miscfs/kernfs/kernfs.h defines the kern_target structure. This support has not been tested under NetBSD, although it has been tested under OpenBSD.

Made some simple changes to the BSDI machine.h, suggested by Jeffrey C. Honig <jch@bsdi.com>.

Improved handling of alternate dialect Configure abbreviations -- aix and aixgcc, hpux and hpuxgcc, solaris and solariscc, and sunos and sunoscc.

4.08 May 23, 1997

Cleaned up dialect Makefile's, staring with a suggestion from Christopher Schanzle <chris@cam.nist.gov>.

Improved Configure's -clean processing.

Corrected bugs in Solaris lock reporting.

Changed NetBSD Configure stanza to put -I/usr/include before -I/sys.

4.09 June 1, 1997

Adjusted for latest FreeBSD 3.0 release. This required adding a new kernel name cache module for reading
BSD-form hashed kernel name cache entries, rnmh.c, to the lsof library, and adding a #define to each machine.h to select it.

Activated rnmh.c for BSDI 2.1, BSDI 3.0, NetBSD 1.2, and OpenBSD 2.1.

4.10 June 8, 1997

Adjusted for Linux 2.1.x (x > 35) kernels with hashed task structure pointers. Marty Leisner <leisner@sdsp.mc.xerox.com> and Jonathan Sergent <sergent@io.com> tested the adjustment.

Replaced readdev() stat() calls with lstat() to reduce device table and cache entries with the same device number and inode values. Added code to remove all remaining duplicates. This fixes a Linux problem reported by Jonathan Sergent and

makes device node name output predictable.

Corrected a bug in UnixWare stream file handling
that prevented searching for the stream file by
its associated character device name.

Added Pyramid code to determine Reliant UNIX clone
major device number differently from that of DC/OSx.

4.11 June 12, 1997
Changed Configure
to sense that the PTX inp_[fl]addr
members of the inpcb structure of <netinet/in_pcb.h>
have a struct type and set HASINADDRSTR for use in
PTX dnode.c and dsock.c tests.

Changed PTX version 4.1.4 tests to use 4.1.3 instead.
Carson Wilson <carson@mcs.com> reported the need
to do this and tested the change.

Fixed a block device table indexing bug in lib/rdev.c,
reported by Carson Wilson. The same bug was squashed
in pyramid/ddev.c.

Added code to the Pyramid Reliant UNIX kread()
function to compensate for an address boundary
error in the kernel's /dev/kmem driver.

Verified that lsof compiles and works under AIX
4.2.1. Added an AIX test for the presence of NFS
header files, defined HAS_NFS and adjusted AIX
dialect sources accordingly.

Based on a suggestion from Gaylord Holder
<holder@phy.ucsf.EDU>, added DEC OSF/1 code to
auto-detect the booted file, whence kernel symbol
addresses are obtained.

4.12 June 24, 1997
Corrected a device
number sign extension problem
in the reading and writing of device cache file.
The problem was reported by Bela Lubkin <belal@sco.com>
and he suggested a fix.

Fixed an SCO stream device lookup problem. The
report and solution came from Bela Lubkin

Enhanced the Configure script to enable cross-
configuration of lsof, based on suggestions from
Marty Leisner <leisner@sdsp.mc.xerox.com>. A new
documentation file, 00XCONFIG, describes the process.

Made Pyramid OBJFS support conditional on the
presence of supporting header files. Corrected
the Pyramid MkKernOpts script so it generates the
necessary -D's for the Nile/Jolt architecture.
Richard Coley <rcoley@pyra.co.uk> helped.

Added another IRIX xfs_inode variant for 6.2, 32
bits, no XFS rollup patch.

Tested under UnixWare 2.1.2.

4.13 July 9, 1997
Taught Pyramid lsof to grok ttyfs vnodes with help
from Richard Coley <rcoley@pyra.co.uk>. Fixed some
minor bugs in Pyramid FIFO reporting. Eliminated
use
of the Pyramid UCB compatibility library at
Richard's suggestion.

Eliminated reporting of "strange" inode numbers
for SCO OSR 3.2v5.0.x HPPS files with help from
Bela Lubkin <belal@sco.com>

Modified port to service name lookup to use a small
number of getservbyport() calls before reading the
entire map with getservent(). Changed port reporting
to represent a zero as `*' to be consistent with
other prt number reporting tools like netstat.
Casper Dik <casper@holland.Sun.COM> suggested these
changes -- the getserv*() one to improve performance
for large NIS service name maps.

Changed all readdev() functions to make the absence
of block devices a warning instead of a fatal error
after Brian Redman <ber@ms.com> reported his IRIX
6.4 system had no block devices. (It really did
have block devices, but readdev()'s lstat() use
caused it to miss them in a directory symbolically
linked from /dev/dsk->/hw/disk.) Fixed Brian's
real problem by
changing the IRIX readdev() to use
stat() on /dev nodes if a Configure test shows /hw
is readable. Extended the potential to do the same

to all readdev() functions.

For consistency and convenience changed some Configure abbreviations and dialect subdirectory names: "decosf" abbreviation and "osf" dialect subdirectory name to "du"; "netbsd" dialect subdirectory name to "n+obsd"; "next3" abbreviation and "next" dialect subdirectory name to "ns"; "sco" abbreviation and dialect subdirectory name to "osr"; "sgi" dialect subdirectory name to "irix"; and "unixware" abbreviation and dialect subdirectory name to "uw".

Added #if/#endif clauses to the AIX rmdupdev() function to avoid clone processing for AIX versions less than 4.1.4. The problem was reported by Toralf Foerster <toralf.foerster@io-warnemuende.de>, who supplied corrective code.

Added support for new style NetBSD inode with i_ffs and i_e2fs union members.

Improved Configure and 00FAQ
information on Digital
UNIX configuration subdirectory with suggestions from Brad Krebs <brad@EECS.Berkeley.EDU>.

4.14 July 22, 1997
Reorganized the Solaris handling of the inode structure header file, ufs_inode.h, to eliminate VxFS structure definition conflicts for Solaris 2.4, based on information from Greg Earle <earle@netbsd4me.jpl.nasa.gov>.

Cleaned up some typos and confusion in Configure's help output, based on comments from Bela Lubkin <belal@sco.com>

Added a 00DIALECTS file, containing UNIX dialect version numbers, that can be used by Configure and the man page.

4.15 August 15, 1997
Aligned `Configure -help` output better. Removed Configure's 2.6 Beta test adjustments.

Added improved Solaris VxFS configuration and handling, based on information from Greg Earle

<earle@netbsd4me.jpl.nasa.gov>.

Added socket state -- TCO or TPI -- for socket
files at the suggestion of Ian Fitchet
<I.D.Fitchet@ftel.co.uk>.

4.16 September 25, 1997
Added
reporting of TCP/TPI queue lengths and window
sizes ala netstat to NAME column. Added -T option
to select or de-select TCP/TPI info reporting.
(Window sizes are only reported for Solaris.)
Fixed anomalies along the way in SIZE/OFF processing
for some dialects.

Fixed service name argument processor to allow
minus signs as part of the name. Consequently this
disallows names with embedded minus signs from
being specified as the start of a range.

Added 00FAQ entries explaining why lsof won't find
a file being edited with vi, why window sizes aren't
reported for all dialects, and what the "no more
information" message means.

Forced Pyramid CC to be /usr/ccs/bin/cc to avoid
accidental use of the BSD variant in /usr/ucb/cc.

Added support for Linux glibc2, including a Configure
test; cross-Configure support (00XCONFIG); and much
unfortunate and risky sleight-of-hand in lsof Linux
dialect header and source files, forced upon lsof
by incompatibilities
between Linux kernel and glibc2
header files.

Included in scripts/identd.perl5 a Perl 5 implementation
of an identd server, using lsof, provided by Kapil
Chowksey <kchowksey@hss.hns.com>.

Updated IRIX 6.4 xfs_inode guess.

4.17 October 14, 1997
Added -V option for verbose search result reporting.
Verbose reports are prepared for failure to locate
file names, command names, Internet addresses or
files, login names, NFS files, PIDs, PGIDs, and UIDs.

Augmented Linux NFS file test to cope with kernels
whose NFS code is in a loadable module. Need for
the test was pointed out by Jonathan Sergent
<sergent@csociety.ecn.purdue.edu>. The change
required that Linux have private dmnt.c source,

Completed a Linux 2.1.57 port on a system provided
by Jonathan Sergent.

4.18 October 25, 1997
Eliminated memory leaks in alloc_lfile(), lkup_port(),
and NEXTSTEP's process_text() function.

Added recognition of OpenBSD 2.2 in Configure,
supplied
by Kenneth Stailey <kstailey@disclosure.com>.

Consolidated print_file() functions to use the one
in lib/prtf.c. Made it configurable and changed
it to size print columns dynamically.

!!! WARNING !!!

WITH DYNAMICALLY SIZED PRINT COLUMNS LSOF 4.18
PRODUCES OUTPUT SIGNIFICANTLY DIFFERENT FROM THAT
OF PREVIOUS REVISIONS. LINES ARE GENERALLY SHORTER
AND THERE IS GENERALLY LESS BLANK SPACE BETWEEN
COLUMNS AND THE ITEMS IN THEM. THERE ARE NO LONGER
ANY SPACES BETWEEN DEVICE NUMBER ELEMENTS, ONLY
COMMAS.

!!! WARNING !!!

Added special types and print specification modifiers
for file size and offset to handle UNIX dialects
with 64 bit sizes and offsets. Paul Eggert
<eggert@twinsun.com> reported the need for this
addition.

With Paul Eggert's help picked lint from the lsof
library, the main level lsof sources, and the Sun
dialect sources.

Added documentation, including the file 00LSOF-L,
about the lsof-l LISTSERV.

Added support for Reliant

UNIX on the RM600. Bob
Passarella <rmpassar@pyramid.com> supplied the
changes. Kevin Smith <kevin@pyramid.com> helped
arrange test systems. While incorporating Bob's
changes, modified lib/rnch.c to handle kernel ncache
structs whose name is accessed via a char *, rather
than in a char array.

Changed #include order of <sys/socketvar.h> for
Solaris 2.x. W. Richard Stevens <rstevens@kohala.com>
pointed out the need to do this.

4.19 October 30, 1997
Changed Pyramid Reliant RM600 proc scan to skip
SSYS (p_flag) processes, since they don't seem to
have a readable u_cdir vnode.

Enabled Pyramid Reliant UNIX kread() work-around
for DC/OSx, too, since its read(/dev/kmem) kernel
driver seems to share the page boundary bug this
work-around circumvents.

Changed SzOffFtm_d and SzOffFtm_dv (new formats at
4.18 to print size and offset) from signed to
unsigned. Setting them signed at 4.18 was an
oversight.

Plugged a memory leak that caused the loss
of 130
bytes per repeat-mode pass. Fixed it with a simple
work-around in main(). Lionel Cons <Lionel.Cons@cern.ch>
reported the leak.

4.20 November 11, 1997
Tested under BSDI 3.1.

Added support for Reliant UNIX Mesh IPC files with
help from Billy Ho <bho@pyramid.com>.

Added support to Digital UNIX lsof that uses the
libmsfs tag_to_path() function (when it exists) to
look up AdvFS path names. The idea and sample code
came from Dean Brock <brock@cs.unca.edu>. Converted
Dean's code into more general purpose support for
private name cache lookups via the HASPRIVNMCACHE
#define in the dialect machine.h file and code
conditional on it in the printname() function.

Taught Digital UNIX lsof to recognize NFS3 file
systems. Corrected Digital UNIX lsof DEVICE column
alignment.

4.21 December 1, 1997
Squashed bug, introduced at revision 4.18, that
resulted in double reporting of each selected PID
when terse mode (-t) was specified.

Corrected minor
bug, also introduced at 4.18, that
might cause an extra print_proc() pass when one
PID has been specified.

Added -R to lsof options in scripts/idrlogin.perl*.
The option should have been there -- it was supposed
to be mandatory for PGID reporting -- but a bug,
corrected in revision 4.18, previously made -R
unnecessary.

Enabled configuring for BSDI BSD/OS 4.0 per a
suggestion from Jeff Honig <jch@bsdi.com>.

Enabled replacement of scoff_t with off64_t (scoff_t
is used to type r_size and r_localsize in the rnode
struct) for IRIX 5.3 systems that have the NFS
kernel rollup patch (1477). This compensates for
SGI's failure to distribute an updated <sys/fs/rnode.h>
with their patch.

Validated under Linux 2.0.3[12], Linux 2.1.64, and
NetBSD 1.3.

Added FreeBSD root directory reporting, courtesy
of Dan Nelson <dnelson@emsphone.com>.

4.22 December 15, 1997
Made adjustments for Linux 2.1.7[02].

Improved NAME information for Linux UNIX domain
sockets.

Added
option +|-M to control the reporting of
portmapper registration information in square
brackets after the TCP or UDP port or service name.
Kenneth Stailey <kstailey@disclosure.com> suggested
the feature and provided sample code from OpenBSD.

Reporting is disabled by default in the distribution
and may be enabled with +M; if lsof is compiled
with HASPMAPENABLED (e.g., from machine.h), reporting
will be enabled by default and can be disabled with
-M.

Changed the -w option to +|-w to match the syntax
of the +|-M option and to eliminate any options
that flip meaning when a symbol is defined at
compile time. For both +|-M and +|-w, specifying
`-' when the default state is disabled or specifying
`+' when the default state is enabled causes no
problems.

!!!WARNING The -w option has changed in lsof 4.22. WARNING!!!

Made the +|- prefix legal for most options, but
didn't document it in the man page or help panel.
Most options that disable
something -- e.g., -b,
-C, -n, -P -- now disable when the prefix is `-'
and enable when it is `+'. Since the states these
options disable are enabled by default, I chose to
avoid documentation complexity and confusion by
not mentioning that they can be used with the `+'
prefix.

Condensed the help panel.

Made sure Digital UNIX Configure stanza puts normal
include path (e.g., /usr/include) before system
include paths.

Added IPX socket information reporting to Linux
with help from Jonathan Sergent <sergent@purdue.edu>.

4.23 January 16, 1998
Fixed conflict arising from the quondam replacement
of the Sun Solaris <netdb.h> with a BIND/BSD version.

With help from Jonathan Sergent <sergent@purdue.edu>
developed a /proc file system based Linux lsof.
It needs some Linux 2.1.x release to work -- I'm
not sure which, but I tested under 2.1.72, 2.1.76,
and 2.1.79. The Configure script selects special
sources for this lsof, so the full lsof distribution
now

contains both /dev/kmem and /proc based sources
for Linux lsof. An optional kernel mod, written
by Jonathan, enhances the /proc-based lsof ability
to recognize IPX socket files. Reorganized and
augmented the Linux sections in 00FAQ to explain
the two types of Linux lsof.

Defined DOSTAT_FUNCTION for dostat() in misc.c to
select the function, stat() or lstat(), it will use.
DOSTAT_FUNCTION is normally undefined, defaults to
lstat(), and is only defined for the /proc-based
Linux lsof in its dlsof.h.

Made conditional on the presence of IRIX 6.4 XFS
rollup patch #6 an XFS node change introduced in
revision 4.16. Identified the patch with help
from John R. Vanderpool <fish@daacdev1.gsfc.nasa.gov>.

Added NFS node compensation for NetBSD 1.3. The
code and suggestion for it was supplied by Jean-Luc
Richier <richier@imag.fr>.

Added diagnostic messages to the /dev/kmem-based
Linux Mksrc script to report errors during the
construction of
the kernel name cache header file,
kncache.h. Added 00FAQ information on kncache.h.

Added a new Linux test host, running 2.0.33 and
GlibC, provided by Steve Logue <stevel@mail.cdsnet.net>.

Ported to PTX 4.1.3 and 4.4.2. Adjusted lib/rnch.c
for 4.4.2 to allow customization f additional ncache
struct element names.

4.24 January 28, 1998
Changed /proc-based Linux lsof offset test to use "/"
instead of "/etc/passwd".

To assist Jim Mintha <jim@geog.ubc.ca> with the
packaging of lsof for Debian Linux, added a
DEBIAN_LINUX_LSOF #define to trigger the activation
of special system map file location code in the
/dev/kmem-based dproc.c.

Applied modification to dialects/bsdi/dlsof.h from
Ingimar Robertson <iar@skyrr.is>, enabling lsof to
compile for BSDI BSD/OS 2.0.

Corrected a documentation error in 00DCACHE, pointed
out by Thomas Anders <anders@hmi.de>. The error was
created when the -V option was added at lsof 4.17.

Made IRIX 5.3 through 6.3 lsof
aware of IRIX SCSI
tape devices (e.g., /dev/tape). Dave Olson of SGI
and Randolph J. Herber of FNAL provided valuable
advice, and Igor Schein <ischein@air-boston.com>
helped test.

Added a machine.h symbol (NEVER_HASDCACHE) that
prevents Customize from offering to change HASDCACHE.
The symbol may appear anywhere in machine.h --
e.g., in a comment. Included the symbol in a
comment of the HASDCACHE section of the /proc-based
Linux lsof machine.h, and accompanied it with
warnings against #define'ing HASDCACHE. Did the
same thing for WARNDEVACCESS (NEVER_WARNDEVACCESS
is the suppressant.)

4.25 February 7, 1998
Corrected an IRIX mis-cast of file offset (position).
Igor Schein <ischein@air-boston.com> reported the
problem. This was offered as a patch to 4.24.
Picked some lint Igor pointed out.

At Igor's suggestion added an optional decimal
digit size argument to the -o option. This argument
specifies how many file offset decimal digits can
follow
"0t" before lsof switches to a "0x..." form.
The argument size specification doesn't count the
two characters of the "0t". A size of 0 means
unlimited. The default is OFFDECDIG (8), preserving
compatibility with existing lsof output; it can be
changed by the lsof builder. When size is specified
with -o it does not force offset display; -o without
a size still must be used to do that.

Added an IRIX 6.2, 32 bit system, XFS node patch,
courtesy of Ulrich Bernhard <rzubu@rzu.unizh.ch>.

For my own convenience enabled Configure to use
/usr/local/bin/gcc for NEXTSTEP. This allows
circumvention of a gcc 2.8.0 ranlib problem on
my test 3.1 `040 cube.

Added flags recommended by the RISC/os and Ultrix
compilers for the updated (and longer) main.c.

Updated FreeBSD cd9660_node.h Configure test.

4.26 February 17, 1998
Added shared process group processing for IRIX 5.3,
and IRIX 6.1 and above, based on investigation of
a bug report from Igor Schein
<ischein@air-boston.com>.
Igor helped test this addition.

Improved handling of file system name arguments.
It's now done in a manner similar to fuser. The
-f argument forces path names to be considered as
simple files, rather than as file system names.
The +f flag forces them to be considered as file
system names. Normally path arguments are considered
file system names when they match a mounted-on
directory in the system's mount table, or when they
match a mounted file system's block device. Igor
Schein helped test this change.

Igor also suggests that the proper compilation of
the IRIX 6.4 proc structure after patch 2536 has
been installed may need -DPIOMEMOPS. So lsof's
MkKernOpts script was updated to propagate that
option from CCOPTS in /var/sysgen/system/irix.sm,
even though patch 2536 doesn't add -DPIOMEMOPS to
it. Added a 00FAQ item on this patch.

Added a fatal warning message about names forced
to be file system names (with +f)
that have no
match in the mount table.

Improved the -V message for files and file systems
for which no open files were found. Added reporting
of /proc file and file system search failures.

Did some code reorganization to combine the multiple
ck_file_arg() functions into one. Moved the new
function from the library to the top level and put
it in arg.c; moved the usage function from arg.c
to a new top-level source file, usage.c, to balance
top-level source file size. The new usage.c depends
on version.h; arg.c no longer does.

Added flag recommended by the DU compiler for the
updated (and longer) main.c.

4.27 March 6, 1998
At the request of Igor Schein <ischein@air-boston.com>
added a conditional repeat mode option, using the
`+' prefix to the `r' option. +r operates as does
-r with the exception that it exits the first time
no open files have been listed during a cycle.
The exit code will be zero when any open files have
been listed; one,
if none were ever listed.

Ported lsof to HP-UX 11.0 with the help of Richard
Allen. This port hasn't been tested on a 64 bit
kernel; I'm sure it won't work there without more
mods. It may not work on PA 2 architectures; I've
only tested it under PA 1 and a separate, busy
tester reported PA 2 problems that I've been unable
to investigate.

In anticipation of getting access to a 64 bit HP-UX
kernel and the pending start of the Solaris 2.7
Beta test (It will have 64 bit kernel addressing.),
started adding support for 64 bit kernel pointers.
This includes: ubiquitous use of the KA_T cast
for kernel pointers; a format to print them,
KA_T_FMT_X; a function to print them, print_kptr();
and modifications to most kernel-related functions
-- e.g., process_file(), process_node(),
process_socket(), readvfs() -- to process kernel
addresses as KA_T types.

Fixed minor bug in handling path name arguments
that end with a `/'.

Removed support for RISC/os;
its test system is no
longer available.

Made modifications to insure that lsof output
doesn't contain non-printable characters. All such
characters are now printed in the printf form
"\x%02x". Several new common functions were
installed in misc.c to support "safe" printing.
This second major modification in 4.27 to common
and dialect code could have introduced bugs not

yet detected.

4.28 March 10, 1998

Refined unprintable format to use \b, \f, \r, \n, \t, and ^* (for CTRL) forms. Corrected omission of safestrprt() use for field output command name. These changes were offered as patches to 4.27.

Made space an unprintable character (\x20) in the COMMAND column; printable elsewhere, including the NAME column, field output, and error messages.

Made sure FD column is parseable as a single entity -- i.e., has no embedded space. Thus, if the access mode is unknown but there is a known lock mode, (a very rare case) the access mode will be printed as `-'.

Picked lint with gcc 2.8.0 under Solaris 2.6.

With the help of Dave Olson of SGI identified a proc struct element that should have been added to <sys/proc.h> by IRIX 6.4 patch 2536. Added a work-around for it to the lsof Configure script. Igor Schein <ischein@air-boston.com> identified that the patch caused a proc structure length complaint from lsof. Removed an obsolete 00FAQ item on the patch, installed at lsof 4.26, explaining that no solution was yet available.

Added a 00FAQ item on how BIND installs its own header files, including <netdb.h>, which may cause the rpcent struct definition to vanish. Solaris has an automatic lsof work-around, but that hasn't been (and probably can't be) propagated to all dialects supported by lsof. The 00FAQ item recommends re-installation of the vendor header files that BIND has replaced. (Others include <rpcent.h>, <sys/bitypes.h>, and <sys/ctypes.h>.)

Made AIX AFS fixes.

4.29 March 26, 1998

Corrected bug in Internet address matching. The matching formerly stopped if the foreign address matched, thus failing to check the local address

for a match. That led to a possible false "Internet address not located" warning (i.e., in response to -V) about the local address, when both foreign and local addresses were specified with -i. This correction was offered as a patch to 4.28.

Changed readmnt() usage in an attempt to defer mount readlink() and stat() delays until they are necessary.

Corrected two bugs in the Digital UNIX readdev() function. Made the correction available as a patch to 4.28 and regenerated the 4.28 DU binaries.

Added a missing argument to a print-kptr() call in the HP-UX dsock.c. The missing argument causes a fatal gcc error. The problem was reported by Eyal Shaynis <eyal.shaynis@telrad.co.il>. The fix was offered as a 4.28 patch.

Adjusted for Digital UNIX 4.0D; the spec_node structure is now defined in <sys/specdev.h>. Kris Chandrasekhar <Kris.Chandrasekhar@digital.com> identified the need for the adjustment.

Incorporated a bug fix from Brian McAllister <mcallister@mit.edu> to the DU readmnt() function. This fix was offered as a patch to 4.28.

Added "safe" printing to a SunOS clone device error message.

Corrected bug in tabling of Linux /proc-based lock info.

Corrected bug in handling of SunOS TLI streams. Dan Farmer <zen@trouble.org> reported the problem.

Added a Solaris 2.6 work-around to keep the BIND <sys/bitypes.h> from colliding with the Solaris <sys/int_types.h>.

Strengthened the Configure test for /proc-based Linux lsof, based on a report from Marty Leisner <leisner@sdsp.mc.xerox.com>.

Tested on OpenBSD 2.3.

Made AIX changes that allow use with 3.2.5. The changes were suggested and tested by Brett Hogden <hogden@rge.com>.

Added Solaris 2.6 AFS support. Disabled reporting of some node numbers for Solaris 2.5 and above open AFS files. The node number computation algorithms used for SunOS 4.1.x and Solaris less than 2.5 no longer always work under Solaris 2.5 and above.

4.30 April 9, 1998

Corrected a pid structure member naming error for UnixWare < 2.1.2. The problem was reported by Richard van Meurs <vanmeurs.anva@atriserv.nl>. He supplied the correction. This was offered as a patch to 4.29.

Had a report from Igor Schein <ischein@air-boston.com> that IRIX 6.4 patch 2839 is another SGI kernel patch, along with 2536, that changes the size of the proc structure in the kernel without changing the proc structure in <sys/proc.h>. Upon further investigation found that the effect of these patches on the proc structure is not consistent. Therefore, dropped the Configure patch test for IRIX 6.4 and made the code in irix/dproc.c slightly more tolerant of proc structure size differences for IRIX 6.4. Igor help test the change.

Corrected Solaris >= 2.5 AFS inode number generation. Craig Everhart <Craig_Everhart@transarc.com> helped find the cause of the problem. This was offered as a patch to 4.29.

Refined the Linux /dev/kmem-based glibc evasion for the timeval structure to make it work with glibc version 2.0.7. This required defining a new global symbol, TIMEVAL_LSOF, default timeval, that the /dev/kmem-based Linux lsof can set to its private glibc timeval name, distinct from the kernel timeval name.

Added support for Alpha to the /dev/kmem-based Linux lsof. Alexandre Oliva <oliva@dcc.unicamp.br> provided a test system. Added an item to 00FAQ

about lsof, the Alpha processor, and Linux.

Added a 00FAQ item about lsof year 2000 compliance.
Basically it says lsof is probably compliant,
because its only date or time computations are done
with time_t values, but I haven't done any specific
Y2K validation. I don't have plans to do any.

Added support for UnixWare 7. Chris Daniels
<chrisd@dlpco.com> provided
a test system and Don
Draper <dond@sco.COM> provided technical information.
Added BFS and SFS file system support to lsof for
UW 2.1.[12] and 7.

Updated Solaris VxFS support for VxFS 3.2.1. Greg
Earle <earle@netbsd4me.jpl.nasa.gov> reported the
need for the update. Greg and Roger Klorese
<rogerk@veritas.com> provided technical information.
Scott McClung <mcclung@primenet.com> tested.

Changed IRIX XFS patch detection in anticipation of
learning there are multiple XFS patches for IRIX 6.4
that require different versions of the lsof-invented
xfs_inode structure.

4.31 April 21, 1998
Added a VxFS #if/#endif wrap to a section of the
HP-UX dnode.c that wasn't properly protected. The
problem was reported by Peter Klosky <PKlosky@bdm.com>.
This was offered as a patch to 4.30.

Added support for Solaris 2.7 (first Beta release).
Mike Sullivan <Mike.Sullivan@Eng.Sun.COM> provided
technical advice and helped test. Charles Stephens
<cfs@jurassic.eng.Sun.COM>
also helped test.

Fixed bug in /proc-based Linux that caused it to
access /proc/mounts excessively. Marty Leisner
<leisner@sdsp.mc.xerox.com> provided a syscall
trace that identified the bug. The fix was offered
as a patch to 4.30.

Adjusted the IRIX 6.4 private structure definition
for the XFS node to accommodate patch 2970. Igor
Schein <ischein@air-boston.com> identified the
patch and the required adjustment.

4.32 May 11, 1998

Corrected Solaris 2.7 code for reporting PCFS (floppy disk) node numbers. Casper Dik <casper@holland.sun.com> supplied the fix. The fix was offered as a patch to 4.31.

Corrected a bug in conditional repeat mode handling pointed out by Igor Schein <ischein@air-boston.com>. This was offered as a patch to 4.31.

Improved reporting of AIX open(/dev/memory device) errors.

Corrected a Solaris < 2.5 KA_T declaration error, pointed out by Robert Kiessling <robert@easynet.de>. Changed KA_T from a #define to a typedef for all dialects to prevent future problems of this kind.

Changed the sample Perl 5 script big_brother.perl5 to report a four digit year from localtime().

Added support for AIX 4.3[.1]. Bill Pemberton <wfp5p@tigger.itc.virginia.edu> provided a test system. Andrew Kephart <akephart@austin.ibm.com> and Tom Weaver <tvweaver@austin.ibm.com> provided technical assistance. Niklas Edmundsson <nikke@ing.umu.se> did 4.3.1 testing.

Added -qmaxmem option to CFLAGs for an AIX compilation with an xlc version 4.x compiler.

Adjusted Linux socket handling for changes in the AX25 members of the sock struct. Richard Green <rtg@tir.com> pointed out the problem. Tested /dev/kmem-based lsof under Linux 2.0.34.

4.33 May 22, 1998

Added generic IPv6 support to common lsof sources and specific IPv6 support to AIX sources. Andrew Kephart <akephart@austin.ibm.com> supplied the additions and helped with testing. Bill Pemberton <wfp5p@tigger.itc.virginia.edu> provided a test system. The modification affected sources for every dialect, whether it supports IPv6 or not, by changing the interfaces to the common Internet

address function ent_inaddr().

Added support for the NetBSD UVM virtual memory system. Paul Kranenburg <pk@cs.few.eur.nl> supplied technical details.

Bracketed HP-UX 11 use of <sys/spinlock.h> with #if/#endif _KERNEL.

Corrected printing of PCB address in DEVICE column for IRIX.

4.34 June 26, 1998

Updated 00FAQ to discuss TCP and UDP ports private to the AIX kernel and 00README to describe how ACLs can be used to give lsof permission to read the kernel memory devices. Add information to 00FAQ and 00README about other OpenBSD architectures where lsof is reported to compile and run. Added section to 00FAQ discussing how an incorrect loader path environment variable value can prevent lsof from loading correctly.

Improved Solaris namefs and doorfs support so that it
is now possible to search for an open VDOOR file by the path name of its fattached file system object. Igor Schein <igor@txc.com> requested the ability to do such a search. Even with the change, lsof can't always identify path names for open VDOOR files.

Also at Igor's request, improved reporting of information on open Solaris VCHR files that share a common vnode, and Solaris UNIX domain socket files.

Corrected print_kptr() argument error in PTX dnode.c, reported by Mark Price <mprice@sequent.com>. Compensated for ncache element naming differences, introduced at PTX 4.4.2; Kurtis D. Rader <krader@sequent.com> reported the problem.

Changed output column title from INODE to NODE to better reflect the column's contents of node IDs for more than just inodes.

Improved Configuration and processing for Solaris

AFS. Corrected AIX AFS 3.4 afs_rwlock_t simulation.

Corrected a cast problem with two AIX knlist()
calls, thus quieting an AIX 4.2.1 compiler
argument
type warning. Jon Champlin <champlin@us.ibm.com>
reported the problem.

Added support to most dialect versions (exception:
/proc-based Linux) to warn when the identity of
the kernel where lsof was compiled doesn't match
the running identity. The warning can be suppressed
with -w. Note: determining AIX state requires
calling oslevel, a potentially slow operation.
Jon Champlin <champlin@us.ibm.com> suggested this
addition.

!!!! WARNING !!!! !!!! WARNING !!!! !!!! WARNING !!!!

Those using the lsof cross-configuration capability
(see 00XCONFIG), should be aware that the kernel
identity test feature introduces two new basic
cross configuration environment variables, LSOF_ARCH
and LSOF_VSTR.

!!!! WARNING !!!! !!!! WARNING !!!! !!!! WARNING !!!!

Identified a situation where a Solaris UNIX domain
socket name is known and can be searched for by
name; added the necessary code.

4.35 July 17, 1998
Made the kernel identity
check an option with the
HASKERNIDCK #define in machine.h. Enabled altering
of HASKERNIDCK with the Customize script. Added
a clause to the help output that indicates the
build-time HASKERNIDCK status.

Added more information to the NAME column for
Solaris UNIX domain sockets. Made them searchable
by their clone device path name. Igor Schein
<igor@txc.com> requested this.

Completed the HP-UX 11 port with support for its
optional 64 bit kernel. Rich Rauenzahn
<rrauenza@cup.hp.com> provided a test system.
Corrected errors with HP-UX 11 lock reporting and

private kernel structure and type definitions.
Added support for HP-UX NFS3 files.

Limited mount table warnings -- e.g., when -b is
used -- to one set per mount point.

Fixed some mount table scanning and usage bugs,
including one in Solaris, reported by Kjetil Torgrim
Homme <kjetilho@ifi.uio.no>.

4.36 August 4, 1998
Made corrections and additions to IPv6 support and
to AF_ROUTE socket
handling, supplied by Jean-Luc
Richier <Jean-Luc.Richier@imag.fr>. Jean-Luc's
additions provide IPv6 support for the Inria IPv6
implementations on FreeBSD and NetBSD.

Fixed two Solaris 2.5, 2.5.1, 2.6 and 2.7 TCP and
UDP host name or IP address reporting bugs, reported
by James Mathiesen <James-Mathiesen@deshaw.com>.
This fix was offered as a patch to 4.35.

Updated the Customize script to cause ENTER to use
all defaults. Amir J. Katz <amir@ndsoft.com>
suggested this and helped test the changes.

Updated Solaris ICMP and IP stream handling, based
on a report from Igor Schein <igor@txc.com>.

Fixed a bug in the Digital UNIX mount table handling,
reported by Bob Ward <bward@thehartford.com>.
While working on the bug, found and updated some
obsolete AdvFS code. This fix was offered as a
patch to 4.35.

4.37 September 15, 1998
Deactivated SGI IRIX support and archived revision
4.36 sources and binaries in pub/tools/unix/lsof/OLD.

Improved performance
of FD searching. This was
offered as a patch to 4.36.

Amir J. Katz <amir@ndsoft.com> pointed out that
ranlib isn't needed for AIX or Solaris. Made
appropriate Configure script changes.

Fixed a file offset reporting bug for HP-UX VCHR and VBLK device nodes located on a VxFS root. Doug Siebert <douglas-siebert@iowa.edu> reported the bug. The fix was offered as a patch to 4.36.

Resolved an HP-UX root device name reporting bug, partly caused by an out-dated local copy of the <sys/mount.h> mount structure, by generating a local header file with the structure that can be compiled without needing _KERNEL defined. Doug Siebert also reported this bug.

Changed some dialect source code -- Digital UNIX, Solaris, SunOS, and UnixWare -- to make more consistent with ps the user ID lsof reports in the USER column. Added a 00FAQ entry about it. Igor Schein <igor@txc.com> reported the Solaris and SunOS lsof inconsistencies with what ps(1) reports.

Ported
lsof to Pyramid ReliantUNIX 5.44.

Added brackets as comments to case, do, done, else, endif, esac, if, and while statements in Configure to assist in navigating its clauses.

Added more Linux 2.0.x glibc work-arounds.

Added support for UnixWare 7.0.1.

Ralph Forsythe <ralph@contact-paging.com> provided a new FreeBSD test system.

4.38 November 25, 1998

Added support for recent FreeBSD 3.0 distributions. A 3.0 test system was provided by David O'Brien <obrien@NUXI.com>. This was offered as a patch to 4.37.

Updated the scripts/idrlogin.perl* files to look for sshd processes in addition to rlogind and telnetd ones.

Added support for DU 5.0 Beta. Berkley Shands <berkley@cs.wustl.edu> provided a test system.

Added support for OpenBSD 2.4 with changes supplied by Kenneth Stailey <kstailey@disclosure.com>.

Changed the Solaris 2.7 tests and documentation to
Solaris 7.

Made some changes to the header files for NEXTSTEP
3.3 and added
support for OPENSTEP 4.x with help
from Michael A. Hovan III <mhovan@BLaCKSMITH.com>
and Carl Lindberg <Carl_Lindberg@BLaCKSMITH.com>.
The combined dialect subdirectory is named n+os.
One of Carl's changes propagates RC_CFLAGS to the
library Makefile. Timothy J. Luoma <luomat@peak.org>
helped test under NEXTSTEP 3.3 and OPENSTEP 4.2.

Made UW 7.x version sensitive to the presence of
ptf7038. Added peer PCB address to Unix domain
socket Name column, even when a path name has been
located. Information for these changes was supplied
by Francis Le Bourse <flebourse@intelcom.fr>. Lee
Penn <lee@dlpco.com> provided a test system.

Tested lsof under OSR 5.0.5 on a test system also
provided by Lee Penn.

Made path name argument processing more tolerant
of errors per a suggestion from Julian Gordon
<julian@cadence.com>.

Acquired a new UnixWare 2.x test system, generously
provided by Computer Classroom, Inc. -- Matthew
Thurmaier <matt@compclass.com>,
Ken Laing
<ken@compclass.com>, and Andrew Merril
<andrew@compclass.com>. Updated Configure to accept
a UnixWare version of 2.1.3.

Updated kmem-based lsof for Linux 2.0.36.

Updated NetBSD sources for a change in a UVM virtual
mapping header file.

Corrected a cache allocation bug in Sun format
kernel name cache handling. The bug only shows up
when the kernel name cache is inaccessible.

4.39 December 29, 1998
Corrected problems with large device number handling
for 64 bit Solaris 7. The problems were reported

by Steve Bellenot <bellenot@math.fsu.edu>. Steve
helped test the fixes. The fixes were offered as
two patches to lsof 4.38.

Improved FreeBSD Configure operations for header
files that must be obtained from the kernel source
tree, based on a suggestion from David O'Brien
<obrien@NUXI.com>.

For Bela Lubkin <filbo@deepthought.armory.com> made
optional with +f[cfn] the display of file structure
address, shared use count, and node structure
address.
/proc-based Linux doesn't implement this
feature, because it doesn't read kernel structures
from kernel memory. Modified the PTX -X option to
take advantage of the new file structure display
option. Added shared.perl5 to the scripts/
subdirectory to provide an example of how +f[fn]
might be used to track shared file descriptors and
files.

Added more /dev/kmem-based Linux glibc evasions,
provided by Jeff Johnson <jbj@redhat.com> and Maciej
Lesniewski <nimir@kis.p.lodz.pl>. Jeff helped test
them on various Linux architectures.

Tested on AIX 4.3.2; no changes were required.
Doug Crabill <dgc@purdue.edu> provided a test
system.

Fixed -c option to detect missing command name when
following option begins with `+'.

4.40 January 25, 1999
Added support for using the CDS compiler for Reliant
Unix 5.44 and above. Made Reliant Unix MIPC support
optional, dependent on the presence of <sys/mipc.h>.

Based on a report from Michael Schmitz
<MSchmitz@lbl.gov>
that /dev/kmem-based lsof misbehaves on a Linux
2.0.x m68k kernel without module support, made the
absence of query_module() or get_kernel_syms()
Linux kernel support a fatal error. Updated relevant
sections of 00FAQ to reflect the change.

Added the ability to force the Linux Configure

stanza to use the /proc or /dev/kmem source base
via a LINUX_BASE environment variable specification.
This is a cross-configuration assist.

Added "+D <dir>" and "+d <dir>" options for directory
searching. +D searches the entire tree, starting
at <dir>, including <dir>, its contents, and its
subdirectory branches; +d searches only <dir> and
its contents, but not its subdirectory branches.
Improved lsof's searching of the specified name
list to compensate for anticipated long lists from
+d and +D.

Made an egrep in the Solaris Configure stanza usable
by the standard and XPG4 egrep's. Kenneth Stailey
<kstailey@disclosure.com> pointed out
the improvement.

Fixed bugs in /dev/kmem-based Linux and UnixWare
Unix domain socket name searching.

Changed a Linux Alpha #include to be conditional
on the presence of its named header file, so that
lsof will compile on Red Hat 5.1 and 5.2 (Linux
kernel 2.0.35) where the header file is absent.
The problem was reported by Alexandre Oliva
<oliva@dcc.unicamp.br>.

Fixed an AIX 4.3+ bug in procinfo struct space
allocation, reported by Jeff Stewart <jws@purdue.edu>.
This was offered as a patch to 4.39.

Added an lstatsafely() function to offer the same
isolation for lstat() calls that statsafely() offers
for stat() calls. This made DOSTAT_FUNCTION no
longer necessary, so deleted it.

With help from Laurent P. Montaron <lpm@sequent.com>
ported lsof to PTX 4.4.4. Laurent did a monumental
job of identifying TCP/IP changes by their TCP
version, rather than by their PTX (With mix 'n
match PTX and TCP/IP versions, the PTX version
often has no bearing
on the TCP/IP version.), and
changed the Configure script and pre-processor
#if/#else/#endif blocks to match. He also updated
Unix domain socket handling for PTX TCP/IP versions
4.5 and above.

Updated CLIENT handle acquisition of fill_portmap()
in print.c to use the more modern RPC function
clnt_create() in place of clnttcp_create() where
possible. PTX 4.4.4 requires clnt_create().

4.41 February 27, 1999
Added FreeBSD 3.1 and and 4.0 support with help
from Sheldon Hearn <axl@iafrica.com>, David O'Brien
<obrien@NUXI.com>, and John Polstra <jdp@polstra.com>.

Corrected bungled AIX 4.3+ patch that went into
lsof 4.40.

Reorganized the Configure script to improve Makefile
construction. A specific impetus for this was to
allow FreeBSD system-wide make flags to be propagated
to the lsof Makefiles, but other goals were to make
sure that the DEBUG= make entry can over-ride
standard CFLAGS values, and to better manage the
identification of compilers
and their versions.
Two compiler-related values may now be supplied in
environment variables: 1) the compiler path in
LSOF_CC; and 2) the compiler version in LSOF_CCV.
00XCONFIG documents them.

Added support for Pyramid Reliant Unix bsdsfs,
msockfs, and sockfs file systems.

Added an optional LSOF_CINFO string to Configure,
producing a CINFO string in selected Makefiles,
producing a #define LSOF_CINFO in selected version.h
header files. The purpose of this is to allow
Configure the option to propagate information to
the lsof -v output. It is now used for Linux to
identify the code base, and for HP-UX 10.30 and
11.0 and Solaris 7 to identify the kernel bit size.

Added system information to NEXTSTEP and OPENSTEP
-v output, from the second line of hostinfo's
output.

Fixed a login name buffer overflow problem in the
processing of -u option values. This was offered
as a patch to 4.40. !!!THIS IS A SERIOUS STACK
OVERFLOW BUG; A LINUX EXPLOIT

EXISTS FOR IT THAT
OPENS A BASH SHELL WITH LSOF'S AUTHORITY -- E.G,
SETGID(KMEM) POWER!!!

Improved the Solaris mount table filter so the volume manager's fake mount point, "/vol", is ignored and doesn't supplant "/" in NAME column path assemblies. Igor Schein <igor@txc.com> reported this bug and provided important help in finding it. This was offered as a patch to 4.40.

Changed the Linux /dev/kmem-based lock ownership test to answer a problem reported by Tom Christiansen <tchrist@jhereg.perl.com>. This was offered as a patch to 4.40.

Installed an HP-UX 11 patch, suggested by Kevin Vajk <kvajk@cup.hp.com>, that adjusts a private lsof kernel header file, derived via Q4, to correspond to an HP-UX patch bundle.

Made NetBSD 1.3I sockproto structure adjustment.

4.42 March 30, 1999
Fixed a typo in the HP-UX dfile.c that caused +fF and +fN output controls to swap effect.

Enabled for OpenBSD 2.5 per notice from Kenneth Stailey <kstailey@kstailey.tzo.com>

Made
more VM accommodations for FreeBSD 4.0.

Improved file system search reporting to include path name components when they're available, instead of mindlessly reporting the file system name in the NAME column. Guy Dallaire <gdallair@geocities.com> brought the need for this change to my attention.

Updated Solaris 2.6 VxFS for Veritas Oracle Database Edition 2.0, VxFS version 3.3, and VxVm version 2.5.4, based on a report from Chris Kordish <chris.kordish@East.Sun.COM>. Chris kindly provided a test system.

Improved HP-UX ipc_s patch detection in Configure, response in .../dialects/hpux/hpux11/ipc_s.h, and documentation in 00FAQ, Kevin Vajk <kvajk@cup.hp.com>

helped test.

Added to Customize the option to suppress HASKERNIDCK
selection for specified dialects. Suppressed it
for /proc-based Linux lsof, and removed its test
and code from there. Tin Le <tin@netimages.com>
alerted me to the need for this update.

Ported to official
Digital UNIX 5.0 release.

Changed DU lsof to use the knlist(3) function when
no kernel file has been specified with -k. This
change was suggested by Erich Wimmer
<Erich.Wimmer@digital.com>.

Updated Configure for latest NetBSD (1.3I?) with
UVM support the default.

4.43 May 11, 1999
Corrected a typo in the Solaris gcc discussion in
00FAQ. Made changes to the Solaris 2.5[.1] private
tcp_s structure. Both changes were done in response
to reports from Igor Schein <igor@txc.com>, who
tested the Solaris 2.5 change.

Made more IPv6 adjustments to lsof for Tru64 UNIX
(Digital UNIX) 5.0, based on information obtained
from Compaq by Berkley Shands <berkley@cs.wustl.edu>.

Corrected HP-UX error message about HP-UX 11 q4 usage.
Amir Katz <amir@ndsoft.com> reported the correction.

Fixed a GlibC 2.1 conflict in /proc-based Linux lsof.

Fixed a man page typo reported by Vlad Harchev
<hvv@hippo.ru>.

Changed some Solaris 2.7 references to Solaris 7
in
Configure and 00XPORTING.

Added a Solaris example to the echo statements that
are the install rule in the SunOS/Solaris Makefile.

Added a field to the file structure output --
FILE-FLAG (file structure open flags, f_flag[s],
and process file flags, typically u_pofile)) --

enabled with +f[gG]. Its field output character
is 'G'.

Figured out another piece of the HP-UX 11 patched
ipc_s structure puzzle with the help of Keith Kalet
<KEITH_KALET@HP-USA-om41.om.hp.com>.

Fixed a PTX real vnode to real inode interpretation
bug.

Added link count to lsof output. Eric Dumazet
<dumazet@risgw.ris.fr> requested and helped test
it. The new +L option enables and filters it.
Its field output character is `k'.

Updated Configure script to recognize NetBSD 1.4.

Updated AFSConfig to handle default answers to
questions.

Incorporated patch from Jonathan Sergent <sergent@io.com>
that enables /proc-based Linux lsof to run on both
32 and 64 bit kernels.

Updated
Configure script with a patch from David
O'Brien <obrien@NUXI.com> that recognizes FreeBSD 3.2.

4.44 June 24, 1999
Corrected use of nlink member of hsnode for SunOS
4.1.x High Sierra File System files. John Dzubera
<zube@tlaloc.stat.colostate.edu> reported the
problem and helped test the fix. Also fixed a
SunOS segmentation fault bug. These fixes were
offered as a patch to 4.43.

Improved handling of /proc-based Linux UNIX PCB
address.

Fixed a NEXTSTEP and OPENSTEP bug that made repeat
option (-r) processing malfunction. This fix was
offered as a patch to 4.43.

Fixed Configure so it doesn't use -O in the Cflags
for the bundled HP-UX C compiler. Jim Ankenbrandt
<jankenbrandt@penton.com> reported the problem.

Corrected output ordering of parent PID and process

group ID when both -R and -g are specified.

Enhanced the pdev.c and pdvn.c library modules for
wider use. These dialect versions use the new
library modules: DEC OSF/1,
Digital UNIX, and Tru64
UNIX; Pyramid DC/OSx and Reliant UNIX; SCO OSR and
UnixWare; and Sequent PTX.

Added basic clone device support to /dev/kmem-based
HP-UX lsof for HP-UX 10.30 and higher.

Added raw socket support to /proc-based Linux lsof.

Changed NODE-ADDR column title to NODE-ID in
anticipation of using more general identification
information in the column.

Ported to UnixWare 7.1, using a test system kindly
provided by Matt Thurmaier <matt@compclass.com>
and Don Draper <dond@sco.com>.

Updated for NetBSD 1.4C VM changes, and a new
current and root working directory structure.

Made minor adjustment for latest Tru64 UNIX 5.0
Beta release.

4.45 July 30, 1999
Fixed quoting problem in DEC OSF/1, Digital Unix,
and Tru64 UNIX Makefile's install rule. The problem
was reported by Berkley Shands <berkley@cs.wustl.edu>.
Fixed bug in Tru64 UNIX 4 lsof that caused FDs to
be skipped. These fixes were offered in a patch
to 4.44.

Fixed a repeat-mode
/proc-based Linux lsof bug,
reported by Sami Farin <sfarin@ratol.fi>. This
was offered as a patch to 4.44.

Picked lint, some reported by Sami Farin.

Corrected a 00DCACHE documentation error in a sample
shell script. The problem was reported by Chad R.
Larson <chad@larsons.org>. Changed commented-out
entries in machine.h files so they require more
thought and work when the comments are removed,

based on a remark by Chad.

Compensated for the practice of Solaris 7 and above to record the dev= value in /etc/mnttab in 32 bit mode, even on 64 bit systems. This was offered as a patch to 4.44.

Added a C library test for /proc-based Linux lsof, so that the #include files can be adjusted for a non-GlibC environment. The need for this was reported by Andrew Hill <andrewh@tirin.openworld.co.uk>. This was offered as a patch to 4.44.

Added support for Auspex LFS 1.8.1 and 1.9.2 to SunOS 4.1.4 lsof. The support was requested by Quentin Fennessy <quentin@dvorak.amd.com>, who provided information and did testing.

Enabled IPv6 support code for NetBSD and OpenBSD, conditional on Configure script tests. Wolfgang Rupprecht <wolfgang@wsrcc.com> supplied the NetBSD code and tested it. The OpenBSD code I constructed has been compiled but not tested.

Updated the identd Perl 5 script, based on a report from Wendy Lin <af5@taiyang.cc.purdue.edu> that the space in its response line in front of the user name violates RFC 1413.

Added IPv6 support to /proc-based Linux lsof. Jonathan Sergent <sergent@ETLA.NET> and Andrew Thomas Sydelko <sydelko@ecn.purdue.edu> kindly provided a test system.

Updated man page description of AIX multiplexed files to indicate that they might be /dev/ptc or /dev/pts, depending on the AIX version. The correction was suggested by Onno van der Linden <onno@simplex.nl>.

Sylvain Robitaille <syl@alcor.concordia.ca> reports lsof passes his Y2K tests.

4.46 October 23, 1999

Corrected /proc-based Linux lsof to detect that an IPv6 address is a mapped IPv4 address. The problem

was reported and analyzed by Arkadiusz Miskiewicz
<misiek@misiek.eu.org>, who also tested the fix.

Added a libc5 library /dev/kmem-based Linux lsof
circumvention, supplied by Jason Lingohr
<lingman@lucid.net.au>.

Corrected a bug in -t (terse) AIX output, reported
by Wendy Lin <af5@taiyang.cc.purdue.edu>. I
introduced the bug at revision 4.43 when adding
FILE_FLAG reporting. This was offered as a patch
to 4.45.

Added a work-around for a problem in the OpenBSD
2.3 <sys/pipe.h> header file. Volker Borchert
<bt@teknon.de> provided and tested it.

Improved description of cross-building lsof for a
64 bit Solaris 7 system on a 32 bit system with
suggestions from Phillip Edwards
<Philip.Edwards@sn.wpafb.af.mil>.

Fixed a gawk POSIX-mode pattern error in the Linux
/dev/kmem-based Mksrc script, based on a tip from
Ambrose C. Li <acli@mingpaoxpress.com>.

Fixed
a bug in the Tru64 UNIX IPv6 handling, courtesy
of a report from Casper Dik <casper@holland.sun.com>.

Enabled support for OpenBSD 2.6.

Enabled support for BSDI BSD/OS 4.1, based on a
report from Jeffrey C Honig <jch@bsdi.com> that
only a Configure script change is necessary.

Enabled Configure script to use gcc for building
lsof for a 64 bit Solaris 7 and 8 kernels, if the
gcc version is 2.95 or above.

Improved -i option handling for systems with IPv6
support so that it will search for a host name in
both IPv4 and IPv6 families, when that is possible.
As a companion modification, changed -V processing
to report a single error when a multiple host name
match is requested. Casper Dik <casper@holland.Sun.COM>
helped test.

Fixed a DEC OSF/1, Digital UNIX, Tru64 UNIX repeat
mode bug, reported by Mayer Ilovitz <mayer@cooper.edu>.
Mayer helped test the fix. The fix was offered as a
patch to 4.45.

Changed Solaris socket
file recognition scheme, so it
is (nearly) the same through Solaris 8, where the
previous clone device scheme no longer works.

With significant assistance from Casper Dik, added
support for Solaris 8 Beta and Beta refresh. The
IPv6 support in Solaris 8 is still in some flux,
so there are temporary compensations for the
differences between Beta IPv6 support and Beta
refresh IPv6 support. Casper and I hope those
differences disappear by FCS.

Improved the delivery of information on Solaris
2.5.1, 2.6, 7, and 8 door files.

Fixed a repeat mode bug that surfaces when /etc/passwd
changes between cycles. The bug report and diagnostic
help were supplied by Igor Schein <igor@txc.com>.
The fix was offered as a patch to 4.45.

Added support for INRIA IPv6 to NetBSD. Jean-Luc
Richier <Jean-Luc.Richier@imag.fr> provided patches
and a test system on which to verify them.

Added support for AIX 4.3.3. Jeff W. Stewart
<jws@anaconda.cc.purdue.edu> provided
a test system.

Made adjustments for FreeBSD 4.0-current.

Improved reporting of information for AIX sockets that
lack protocol control blocks.

4.47 November 29, 1999
Based on a query from Jean-Pierre Radley <jpr@jpr.com>,
changed the lsof top-level Makefile to propagate
CFGF to the library Makefile. (DEBUG was already
being propagated.) Added osrgcc and scogcc Configure
abbreviations (to use gcc) for Jean-Pierre.

In response to a query from Igor Schein <igor@txc.com>,
improved the Configure script test for Solaris 7

and 8 that decides if the compiler can produce 64
bit executables.

Made an ugly hack, based on making a private rnode
structure definition from q4 output, to compensate
for HP-UX 10.20 and lower recent NFS3 patches. HP
didn't supply an updated <nfs/rnode.h> with the
patches. The problem was reported by Will Partain
<partain@mekb2.sps.mot.com>. Elias Halldor Agustsson
<elias@hi.is> helped identify the patches as
PHNE_18173,
PHNE_19426, PHNE_19937, and PHNE_20091,
and provided a test system.

Switched BSDI test system from 2.1 and 3.1 to 4.0.1,
courtesy of Terry Kennedy <terry@tmk.com>.

Added some more dev_t hacks for Alpha FreeBSD 4.0.

Added support for IPv6 on BSD 4.x. The support hasn't
yet been tested, just compiled.

Added support for the mnt file system (mntfs or
/etc/mnttab) on Solaris 8. Tested on Solaris 8
BETA-Refresh.

Made selection of optional fields (e.g., PPID with
-FR) in a field output specification select the
optional field, too, so that the option selector
for the field (e.g., -R) isn't also required. This
change was made in response to an inquiry from John
DuBois <spcecdt@armory.com>. This may require some
revision to scripts that parse all field output;
two scripts in the lsof distribution's scripts/
subdirectory had to be updated.

Corrected handling of Linux IPv4 addresses mapped
in IPv6 addresses.

Tested under OpenBSD 2.6.

4.48 January
14, 2000
Modified -i argument processing of colon-separated
IPv6 addresses to recognize an IPv4 address mapped
in an IPv6 address and handle it as an IPv4 address.
This was offered as a patch to 4.47.

Added a defined symbol (NOWARNBLKDEV) to control
(inhibit) the issuance of a warning when no block
devices are found. This was done anticipating its
need in FreeBSD 4.x, but that dialect version no
longer has any block devices, so HASBLKDEV was
disabled for it instead. NOWARNBLKDEV was left in
place for possible use in the future.

Enabled KAME IPv6 Configure support for FreeBSD
when <netinet6/in6.h> is found.

Disabled use of gcc to compile lsof for 64 bit
HP-UX 11.

Updated Configure to recognized FreeBSD 3.4.

Based on suggestions from Bernt Christandl
<beb@MPA-Garching.MPG.DE> improved AFS configuration
for AIX and Solaris, and updated AIX AFS 3.5 support.
Johannes Tax <tax@bluedog.oit.unc.edu>, Hung T.
Pham <hung_pham@unc.edu>, and Curt
Freeland
<curt@grumpy.cse.nd.edu> provided test systems.

Updated lsof's private rnode definition for AIX
4.3.3, since IBM still doesn't ship the
<oncplus/nfs/rnode.h> header file and the rnode
structure definition in <nfs/rnode.h> doesn't match
what the kernel uses. This was offered as a patch
to 4.47.

Weakened the test in the Linux /proc-based lsof of
the field count of data lines in /proc/net/{tcp,udp}.
It appears that recent 2.3.x Linux kernels have
added untitled fields to these files. The bug
report came from Gabor Liptak <gaborliptak@usa.net>.

Adjusted for a FreeBSD 4.0 change in the definition
of [_]KERNEL. David O'Brien <obrien@NUXI.com> reported
the problem and provided a test system.

Removed the HASPPID bracket from Fppid (the -R
option state variable) so that the field select
table will compile even when HASPPID is not defined.
This problem was introduced at revision 4.47 with
code that causes some field output characters to
set

option states. The problem was reported by
David Bacon <bacon@birch.eecs.lehigh.edu>.

4.49 April 3, 2000
Made clearer in man page that "Lxx" FDs are AIX
loader table references. Also updated the 00FAQ
discussion of the Stale Segment ID bug to include
AIX 4.3.x.

Modified support for NetBSD 1.4Q to include the
<sys/buf.h> header file to cope with an MFS change.

Added support for OpenBSD UVM virtual memory.

Added support for AIX systems with > 2GB of memory.
Chris Sylvain <csylvain@itg.ummc.umaryland.edu>
reported the problem and provided the solution.
Chris also supplied some minor code cleanup. This
was offered as a patch to 4.48.

Based on new information from Igor Schein <igor@txc.com>
made additional compensation in Configure script
for 64 bit Solaris 7 and 8 gcc.

Added some 00FAQ info on the effect ordering of
the +fg and -FG options has on output format.

Improved NetBSD IPv6 configuration, based on a
suggestion from Thomas Klausner
<wiz@danbala.ifoer.tuwien.ac.at>.
Added code to
convert IPv4-mapped-in-IPv6 addresses to IPv4
addresses.

Updated the information in 00FAQ and the HP-UX 11
binary directory README files on the HP-UX 11 ipis_s
patch with new information supplied by Eric McWhorter
<emcwhorter@xsis.xerox.com>.

Added documentation on changes to HASFSTYPE and
HASNCACHE, and the new HASPRIVPRIPP.

Adjusted Configure for FreeBSD 5.0. Made additional,
necessary changes to Configure and the BSDI sources
to eliminate load errors.

Added KAME IPv6 support to FreeBSD at the request
of Ollivier Robert <roberto@eurocontrol.fr>, who

provided a test system.

Corrected the script that generates the CHECKSUMS
files for binaries to correctly name the detached
PGP certificate. The documentation bug was reported
by Michael Hennecke <hennecke@rz.uni-karlsruhe.de>.

4.50 June 29, 2000
Added a NetBSD alpha test host, courtesy of Ray
Phillips <r.phillips@mailbox.uq.edu.au>.
An lsof
4.49 binary, built on Ray's 1.4.1 system was made
available prior to the 3.50 release.

Upgraded the system map file tests in /dev/kmem-based
Linux lsof, making the use of DEBIAN_LINUX_LSOF
unnecessary. Tested the changes on a system made
available by Vincent Kujala <kujala@geog.ubc.ca>
and Jim Mintha <jim@ic.uva.nl>.

Forced AIX to use the large-file-enabled versions
of lstat (lstat64) and stat (stat64) if <sys/stat.h>
contains stat64. This should allow lsof to stat()
AIX files > 2GB even when the builder has not
defined the "large file enabled programming
environment." Configure tests <sys/stat.h> and
puts -DHASSTAT64 in the Makefile's CFLAGS to make
this happen. Fernando A.B. Whitaker
<whitaker@cenapad.unicamp.br> reported the problem.
This was offered as a patch to 4.48.

Enabled Configure script to handle OpenBSD 2.7.
Angelos D. Keromytis <angelos@dsl.cis.upenn.edu>
reported the availability of OpenBSD 2.7 and supplied
the Configure
script patch.

Improved handling of DOOR and fattach()'d files in
Solaris.

Changed message about missing kernel symbol file
from "not yet determined" to "none found".

Updated FreeBSD, NetBSD, NEXTSTEP, OpenBSD, and
OPENSTEP support to report "no PCB" and the values
of the SO_CANTSENDMORE and SO_CANTRCVMORE state
flags when a socket structure has no inpcb pointer.
This modification was made to AIX lsof at revision

4.46. Added an entry to 00FAQ about sockets that
have no inpcb pointer.

Upgraded support for FreeBSD 5.0-CURRENT. Ben
Smithurst <ben@scientia.demon.co.uk> supplied
patches and did testing. David O'Brien <obrien@NUXI.com>
supplied a test system. The update included dropping
the Fctty part of file descriptor file system
support, conditional on a Configure script test.
I propagated those changes to BSDI, NetBSD, and
OpenBSD in anticipation of their having the
modification in the future. David also arranged
with Michael Haro
<mharo@area51.fremont.ca.us> for
a FreeBSD 3.4 test system.

In response to an lsof 3.72 bug report from Jim Mewes
<jim@corp.phone.com>, added more kernel address
filtering to the lsof function, kread(), that reads
Solaris kernel data.

In response to a report from Marc Duponcheel
<marc@offline.be>, added tests to the /proc-based
Linux lsof to ignore file systems of types "autofs"
and "pipfs".

Based on a report and information supplied by Casper
Dik <casper@holland.Sun.COM>, updated the ncache_load()
function in lib/rnch.c with new code that deals
with a post Solaris 8 change in kernel name cache
(DNLC) handling. Casper tested the update, which
should be invisible to Solaris versions without
the new DNLC code.

Added support for Solaris VxFS QIO files, based on
a report from Kieran Broadfoot <kieran.broadfoot@gs.com>.
Kieran help test the support.

Added support for PTX 4.4.6 and 4.5[.1] with help
from the usual cast of good people at Sequent.

Added
support for 64 bit file sizes and offsets on
BSDI, FreeBSD, NetBSD, and OpenBSD, based on a
report from Dan Nelson <dnelson@emsphone.com>.
Dan supplied a patch and did FreeBSD testing.

Added Configure script recognition of NetBSD 1.5,

based on a report from Andrew Brown <atatat@atatdot.net>.
Thomas Klausner <wiz@danbala.ifoer.tuwien.ac.at> updated
the NetBSD port package to use a pre-release of this
addition.

At the last minute saw a notice via deja.com's
UseNet search service that FreeBSD 3.5 had been
released and lsof didn't grok it. Added recognition
of 3.5 to lsof's Configure script, but didn't have
the opportunity to test lsof on 3.5.

4.51 August 21, 2000
Added Configure script support for the upcoming
Solaris 9 release based on suggestions from Casper
Dik <Casper.Dik@holland.sun.com>.

Changed sample Perl scripts to assume that
/usr/local/bin/perl is Perl 5 and Perl 4 may be
found in /usr/local/bin/perl4.

Updated Configure
to recognize FreeBSD 4.1 and made
a FreeBSD pre-release distribution available.

Bela Lubkin <belal@sco.COM> tested lsof on the
upcoming SCO OSR 5.0.6 release and reports that
lsof appears to work properly.

Updated the AIX compiler test in Configure to
recognize its version 5.

Updated AIX 4.3.3 support with automatic recognition
of the proper rnode structure, based on machine
bit width. Also added code to detect when processing
the -X option that lsof has been compiled with the
"other" AIX 4.3.3 user structure and to apply
compensations. When a compensation method works,
it's applied during subsequent -X processing; when
none works, further -X processing is disabled.

Added Tru64 UNIX 5.1 support. Updated Tru64 UNIX
library text file support to recognize new kernel
support for AdvFS library files. Berkley Shands
<berkley@cs.wustl.edu> and Klaus Saggerer USG
[saggerer@zk3.dec.com> helped put me in contact
with Chang Song <song@zk3.dec.com>,
the developer
of 5.1's new kernel name cache and he helped me

develop new code in lsof to access it.

Corrected reporting of PTX fattach()'d address.

Changed Configure and dlsof.h for NetBSD and OpenBSD
to use /usr/include/uvm header files when available.
Andrew Brown <atatat@atatdot.net>, Thomas Klausner
<wiz@danbala.ifoer.tuwien.ac.at>, and Wolfgang
Rupprecht <wolfgang@wsrcc.com> pointed out the need
to do this for NetBSD. Andrew provided access to
a NetBSD 1.5 system for verifying the changes.

Installed snprintf() support, including a private
version in the lsof library for those UNIX dialects
without the function. Changed all sources to use
it instead of sprintf() and strcpy().

Fixed a memory leak in the readvfs() functions of
BSDI, DEC/OSF1, Digital UNIX, FreeBSD, NetBSD,
OpenBSD, and Tru64 UNIX.

Tested on Linux 2.4.

Modified the Pyramid MkKernOpts script to compensate
for `uname -s` configuration alternatives. Robert
Dahlem <Robert.Dahlem@ffm2.siemens.de>
supplied
the modification.

Obtained access to an FCS Solaris 8 64 bit system
and built lsof on it, using Sun Workshop C 5.0 and
gcc 2.96 20000814 (experimental). Both compilers
produce a working lsof.

4.52 November 8, 2000
Completed work on an HP-UX 11.11 port that uses a
pstat(2) interface provided by HP. To distinguish
it from its predecessors for HP-UX, this lsof
version is called PSTAT-based and the predecessor
versions are now called /dev/kmem-based. I am
indebted to the far-sightedness and support of
these good people at HP for making PSTAT-based lsof
possible: Carl Davidson, Louis Huemiller, Rich
Rauenzahn, and Sailu Yallapragada. The PSTAT-based
sources are in lsof_4.52/dialects/hpux/pstat, the
/dev/kmem-based ones in lsof_4.52/dialects/hpux/kmem.

Ported to IBM Monterey for Merced|Itanium, aka AIX
5L. It configures via the Configure script's "aix"
abbreviation and has been tested on AIX 5L Beta 3.
Jay Beck,
Steve Dibbell, Loc Le, Nasser Momtaheni,
and Malcom Zung of IBM provided generous support.
Since AIX 5L is still in Beta testing, this port
can't be considered complete.

Added Configure support for OpenBSD 2.8. David
Mazieres <dm@cs.nyu.edu> provided a test system.

Based on a report from Marc Christensen
<marc@mecworks.com> added sockfs to the mount scan
exemption list for /proc-based Linux lsof.

Added large file, CDFS, and DOSFS for UnixWare 7.x.
Added UnixWare device memory mapping support. All
UnixWare changes were supplied by Eric Dumazet
<edumazet@cosmosbay.com> Eric also supplied some
miscellaneous bug fixes.

Deferred name cache loading until printname() needs
to use the name cache.

Terminated Pyramid, SunOS 4.1.x, and Ultrix support,
because test systems are no longer available.
Final Pyramid and Ultrix source code distributions
for lsof revision 4.51 may be found on lsof.itap.purdue.edu
in pub/tools/unix/lsof/OLD/src. The no
longer
supported SunOS 4.1.x source code is still distributed
with the Solaris source code.

Added code to set Solaris node address to real vnode
address, when applicable.

John Speno <speno@lopan.isc-net.upenn.edu> provided
information that enabled me to update the Tru64
AdvFS (MSFS) node definition for AdvFS version 5.

Added Tru64 5.x CFS support with help from Kris
Chandrasekhar <Kris.Chandrasekhar@compaq.com>,
Diane Lebel <lebel@zk3.dec.com>, and John Speno.
The support only provides information about cached
file attributes.

Installed a Configure patch for HP-UX 11 supplied by

Kenneth Stailey <kstailey@disclosure.com> that adds
another command to q4 input.

Tested on FreeBSD 4.2.

Will Day <willday@rom.oit.gatech.edu> and Frank
Winkler <frank.winkler@germany.sun.com> graciously
supplied Solaris 8 binaries.

Added Solaris 9 text file support, supplied by
Casper Dik <Casper.Dik@holland.sun.com>.

4.53 December 6, 2000
Added the AIX 5L j2_lock.h
to the distribution with
a Configure script step to use it when it's missing
from /usr/include/j2.

Removed SunOS 4.1.x support.

Removed Linux 2.0.x /dev/kmem support.

Fixed VBLK and VCHR special device file reporting
to handle /dev information more accurately.

Added a Apple Darwin / Mac OS X 1.2 port, provided
by Allan Nathanson <ajn@apple.com>. Allan also
arranged for a test system so I can maintain this
port. An additional test system was provided by
Dale Talcott.

Dropped claims of support for all UnixWare versions
except 7.1.0, since that is the only version on
which I can test lsof. Even though lsof 4.53 is
deprecated for UnixWare 2.1.3, installed a patch
for it with testing done by A. Channing Clark
<clark.channing@heb.com>.

Dropped claims of support for all SCO OpenServer
versions except 5.0.5, since that is the only
version on which I can test lsof.

4.54 January 19, 2001
Added compensation for a change that made the
FreeBSD
mount structure invisible. I can only test
back to 3.2 and the compensation works there, so
it's been #ifdef'd for 3.2 and above. David O'Brien

<obrien@FreeBSD.org> provided the necessary clue.

Based on a report from Valdis Kletnieks
<Valdis.Kletnieks@vt.edu>, changed all IPv6 support
to report a TYPE of IPv6 for sockets with IPv4
addresses mapped in IPv6 addresses. The previous
lsof behavior was to report their TYPE as IPv4.

Restored the Linux GlibC test to Configure, removed
at revision 4.53, based on a report from John Dzubera
<zube@cs.colostate.edu>, that RedHat Linux 6.0 still
needs the test.

Made setting of link count for Solaris more selective.

Limited Readlink() recursion to MAXSYMLINKS. The bug
was reported by Jan Dvorak <johnydog@go.cz>.

Dropped the *claim* that lsof runs on Solaris 2.5.1.
It may well do so, but I no longer have access to a
test system.

Fixed an #endif comment typo, reported by Igor Schein.

Fixed a typo
in a cast for a Tru64 UNIX 5.1 function
and updated Configure for Tru64 UNIX 5.0 and 5.1 with
information from Jesse Perry <jesse.perry@compaq.com>.

Corrected non-fatal typos in the AdvFS support in
dnode.c for Tru64 UNIX.

Added msdos file system support for NetBSD and OpenBSD.
Andrew Brown <atatat@atatdot.net> requested and helped
test it.

4.55 February 15, 2001
Based on a report from Bernd Eckenfels <ecki@lina.inka.de>
added support in lsof for files in /proc/<PID>/maps
that have been deleted.

Changed PGRP output title to PGID, conforming to
the most common current abbreviation for Process
Group ID (PGID). While some systems continue to
use *pgrp for internal kernel variable names, most
systems that support the display of PGID via ps(1)
now title it PGID. The lsof -g and -Fg options
operations are unchanged in function; only titles

and descriptions have changed. Also changed internal
variable names from *PGRP and *pgrp to *PGID and
*pgid
where possible.

Dropped the *claim* that lsof runs on HP-UX 9.x.
It may well do so, but I no longer have access to
a test system.

In response to a suggestion from Jeff Howie
<jeff.howie@federated.ca> added support for command
name selection by regular expression. A new form
of the -c option value is use to identify and
specify a regular expression.

Restore the *claim* that lsof works on UnixWare
7.0, since I re-acquired a test system.

4.56 May 3, 2001
Corrected some problems Amir Katz <Amir_Katz@bmc.com>
found with Insure++, one in lib/dvch.c, the rest
in Solaris sources. Amir's report also helped me
find an error in an snpf() call that caused (the
unsupported) Solaris 2.5.1 lsof to crash. Wally
Winzer, Jr. <wally.winzer@ChampUSA.COM> helped test.

Added support for UnixWare 7.1.1 and above in-kernel
UNIX sockets. John Hughes <john@Calva.COM> kindly
provided code and access to a test system. John
also provided a test system and advice
for adding
UnixWare 7.1.1 NonStop Cluster and CFS support.
More help with that effort came from Kurt Gollhardt
(SCO), Barbara Howe (SCO), Bela Lubkin (SCO), and
Dewan Rashid <Dewan.Rashid@ir.com>.

Archived a set of compilation hints (patches) from
Bill Melvin <Bill.Melvin@esc.edu> that make it
possible to compile the old, unsupported lsof 3.08
sources on UnixWare 1.x without NFS or CDFS support.

Installed support supplied by Allan Nathanson
<ajn@apple.com> for the Darwin "Gold Master" release,
Mac OS X 10.0 (aka Darwin 1.3 in its public source
version). Added Allan's CVS repository suggestions
to the script that gets additional header files
from an open source repository.

Tested an HP-UX 11.11 kernel patch from Sailu
Yallapragada that enables reporting of TCP/IP
information for telnetd processes that use the
telnet multiplexor. I don't yet know the kernel
patch ID.

Made the Solaris inclusion of <inet/mi.h> conditional
on the Solaris
version. (It's apparently not needed
at 2.6 and above.) Bill Watson <bill.watson@uk.sun.com>
brought this to my attention.

Added alternate Linux 2.4.x lock extent test, supplied
by Jim Mintha <jim@ic.uva.nl>.

Rearranged the lines and pre-processor tests in
regex.h, lib/regex.c, and lib/snpf.c so that unifdef
can be used to eliminate copyright and GPL statements
when the files aren't being used for a particular
dialect. (USE_LIB_* definitions in a dialect's
machine.h header file determine if one or more of
those three files are to be used.)

Added preliminary support for Solaris 8 with VxFS
3.4. This support will be refined as I get
information from Veritas about how they will
distribute the kernel header files lsof needs.
Those header files were omitted from the standard
VxFS 3.4 distribution. Technical assistance and
testing were provided by Calle Dybedahl <cdy@algonet.se>,
Gary Millen <gary.millen@veritas.com>, Rainer Orth
<ro@TechFak.Uni-Bielefeld.DE>,
Peter C. Vernam
<pvernam@draper.com>, and Donna Yobs
<Donna.Yobs@veritas.com>

Tested on FreeBSD 4.3-STABLE.

Dropped the *claim* that lsof works on UNIX dialects
where I no longer have test systems: BSDI 2.1,
3.[01] and 4.0; DEC OSF/1, Digital UNIX and True
64 UNIX 2.0 and 3.2; FreeBSD 2.1.[67], 2.2[.x],
3.[012345] and 4.[01]; HP-UX 10.20; NetBSD 1.[234];
SCO OpenServer 5.0.5; and SCO UnixWare 7.0

Tested on Solaris 9 BETA, s81_36.

4.57 July 19, 2001

Help (-h) and version (-v) output now have URLs
for the newly created and timeliest lsof FAQ
(00FAQ in the lsof distribution) at:

ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/FAQ

and the man page for the current lsof distribution
at:

ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/lsof_man

Based on a report from Steve Laubscher
<slaubs@woodward.com>, modified dlsof.h for PTX
4.6[.1] to avoid a temporary dnlc_t definition
needed at PTX 4.5.1.

Corrected test for old Linux
kernels in Configure.
Henri Karrenbeld <ishtar@cal044202.student.utwente.nl>
brought the error to my attention. Limited Linux
claims to 2.1.72 and above in the documentation.

Improved HP-UX 11 Configure stanza and stream socket
handling.

Constructed a work-around for the HP-UX 11 optional
OnlineJFS package. The work-around sadly requires
lsof to have a private version of the vx_inode
structure, since the OnlineJFS package doesn't
update <sys/fs/vx_inode.h>. Troyan Krastev
<Troyan.Krastev@ricoh-usa.com> brought the bug to
my attention and Michael Bracewell
<michael@ra.TSS.PeachNet.EDU> provided a test system
where I developed the work-around.

Added locale support to lsof's isprint() test,
based on a suggestion from Dan Mercer <damercer@mmm.com>.
Lsof will use setlocale(), when that function and
its supporting <locale.h> header file are available.

Added OpenBSD 2.9 support.

Based on a report from Aaron Rhodes <arhodes@psionic.com>
and
with testing help from Aaron, made the lsof
4.56 revision compile and work on OpenBSD 2.6.
While that OpenBSD version is no longer supported,
Aaron's report exposed a Configure script bug

affecting OpenBSD versions lsof does support.

Updated for FreeBSD 5.0-CURRENT. Szilveszter Adam <sziszi@petra.hos.u-szeged.hu> help test. The lsof FreeBSD ports packager, David O'Brien <obrien@FreeBSD.org>, assisted.

Tested on AIX 5.1. Loc Le and Nasser Momtaheni of IBM provided test systems.

4.58 September 13, 2001

Added options to safestrprt() and safestrprtn() to surround the string with "" and to suppress the printing of an ending '\n'. Use of these functions in device cache file error message reporting answers a suggestion for better error reporting from John Jackson <jrj@purdue.edu>.

Fixed a Solaris 2.6 and above problem related to searching for "large" (O_LARGEFILE) files by name; lsof was using the wrong version of [l]stat(2). The bug was reported by Daniel Trinkle <trinkle@cs.purdue.edu>.

Added AIX 4.1.4 and above XTI socket support.

Added OSR Xenix Shared Data and Semaphore file type support with modifications supplied by Bela Lubkin.

Updated OPENSTEP support with modifications from Carl E. Lindberg <lindberg@clindberg.org>. The changes enable the correct reporting of executable and library open files ("txt" type).

Limited claims of OpenServer support to the versions where I currently test, 5.0.4 and 5.0.6. (Lsof probably works on 5.0.5.)

Enabled processing of -C option for PSTAT-based HP-UX lsof.

Enabled and tested on FreeBSD 4.4.

Corrected a file system test example in 00QUICKSTART, based on a report from Jun Biao WANG <wangjunb@cn.ibm.com>.

Made available for re-distribution a user-contributed

port of lsof 4.51 to Reliant UNIX 5.45. Thomas
Mauterer <Thomas.Mauterer@philosys.de> contributed
the port.

4.59 October 20, 2001
With the closing of the Sequent Synergy Links
Lab
by IBM, terminated lsof support for PTX. The last
tested PTX lsof revision, 4.58, is available on
lsof.itap.purdue.edu in .../lsof/OLD/src.

Adjusted for FreeBSD 5.0-CURRENT NFS header file
changes, based on a report from Jos Backus
<josb@cncdsl.com>.

Corrected a bug in the way Linux lsof identifies
the owner of a process. Lionel Cons <lionel.cons@cern.ch>
reported the problem and tested the fix. Added
code to avoid stat(2) calls on regular Linux files
whenever possible. Lionel reported the need to do
this (AFS files) and tested the new code.

Added new output field for raw device number in
hex. The field is identified with 'r'. This field
is NOT selected when -F or -F0 is specified so that
its appearance won't disturb existing scripts that
process field output.

Added support for OpenUNIX 8. A test system was
provided by Larry Rosenman <ler@lerctr.org>.
Matthew Thurmaier <matt@compclass.com> and many
people from Caldera provided
technical assistance.

Added an additional UVM test to the NetBSD Configure
stanza. Andrew Brown <atatat@atatdot.net> supplied
the test; it recognizes NetBSD 1.5Y UVM changes to
the vnode structure recently committed by Chuck
Silvers.

Applied Configure and get-xnu-headers.sh script
changes suppled by Allan Nathanson <ajn@apple.com>
for Darwin 1.4.

Added for Bela Lubkin <belal@mammoth.ca.caldera.com>
OSR-specific environment variables to supply values
to the Configure script. The variables are described
in 00XCONFIG.

Added an IP version selector to the -i option
parameters.

4.60 November 9, 2001
Added special handling to and corrected bugs in
the matching of IPv4 in IPv6 addresses to -i6:<...>
selectors.

Made 00FAQ corrections and updates, based on
discussions with Igor Schein <igor@txc.com>.

Modified Configure script to detect a 64 bit capable
gcc compiler and permit it to be used to build 64
bit (PA-RISC 2) lsof for HP-UX 11.00. Tested
with
HP's gcc package, which Rich Rauenzahn of HP kindly
installed on a test system at HP. Stefan Marquardt
<stefan.marquardt@hagebau.de> helped test.

Made lsof's method of killing its child process
more robust, based on a suggestion from Bela Lubkin
<belal@caldera.com>.

Modified all dialect Makefile segments to accept
select -v #define's from the environment -- a
builder's comment, host, logname, system information
and user name. This was done for Bela Lubkin, so
he can "tune" the -v output when he packages lsof
in the upcoming Caldera OSR 5.0.7 release.

Changed Perl scripts in scripts/ to put the lsof
path consistently in $LSOF. Also added a fix from
Bela Lubkin to scripts/big_brother.perl5 that allows
it to tolerate SCO OSR "ago" clauses in open UDP
file information. Strengthened emphasis in
scripts/00README that the scripts are examples that
shouldn't be expected to run on all UNIX dialects
without modification.

At Bela Lubkin's
suggestion changed the device
cache file format examples in 00DCACHE and 00FAQ
to avoid "%U%". That's an SCCS escape sequence.

Added support for OpenBSD 3.0.

Added +DAportable to CFLAGS for 32 bit HP-UX 11.

Amir Katz <Amir_Katz@bmc.com> suggested the addition.

4.61 January 22, 2002

Updated field output example Perl scripts in the scripts/ subdirectory to discover the lsof path, starting at .. and proceeding through the PATH environment variable's directories.

Added minor OSR Configure script fixes, provided by Bela Lubkin <belal@caldera.com>.

In response to a report from Joshua Wright <Joshua.Wright@jwu.edu> modified NetBSD and OpenBSD Configure stanzas and sources so that lsof can be built when there is no system source tree (e.g., /usr/src/sys).

In response to a report from Peter Valchev <pvalchev@openbsd.org> improved the UVM test in the OpenBSD Configure stanza.

Updated Configure script to recognize FreeBSD 4.5.
Updated for FreeBSD
5.0 procfs and pseudofs changes.

Updated HP-UX stanza to see if the compiler named in the LSOF_CC environment variable is the bundled compiler. If it is, "-O" is omitted from the compiler flags.

Updated Digital UNIX 4.x and Tru64 UNIX error message related to kernel name list failures. Added an FAQ section about how a kloadsrv daemon failure can cause knlist(3) to fail. The condition was reported by Douglas B. Jones <douglas@gpc.peachnet.edu>

Based on a report from Mark W. Eichin <eichin@thok.org> made Linux lsof capable of handling and reporting file sizes greater than 32 bits.

Tested on Solaris 9 BETA-Refresh.

Corrected a bug in the matching of IPv4 addresses, mapped in IPv6 addresses, to an IPv4 parameter to an -i option.

Ported to 64 bit Power AIX 5.1 kernel with advice from David Clissold <cliss@austin.ibm.com> and Marc

Stephenson <marc@austin.ibm.com>, and on a test
system provided by Loc Le <lple@us.ibm.com>.

4.62 March 7, 2002
Updated
00README to reflect the usefulness of gcc
for building AIX lsof. Documented a report from
Brian L. Gentry <BGentry@nationsrent.com> of success
on AIX 4.3.3. I documented my success on 32 bit
Power AIX 5.1 and my lack of success on ia64 AIX
5.1 and 64 bit Power AIX 5.1.

Improved UnixWare >=7.1.1 reporting of UNIX socket
NAME field information for NonStop Cluster systems
with a patch provided by John Hughes <john@Calva.COM>.
Offered John's improvement as a patch to lsof 4.61.

Corrected bugs in handling of open files on block
devices by OSR lsof. The bugs were reported by
Bela Lubkin <filbo@deepthought.armory.com>.

Fixed bug in writing >32 bit device numbers for
block devices to the device cache file.

Added support for reporting block special nodes
not in /dev (or /devices). That required "like
device special" be changed to "like block special"
and "like character special". (00FAQ was updated.)

Based on a report from Peter Valchev
<pvalchev@openbsd.org>
improved the definition of the source for NetBSD
and OpenBSD kernel symbols (the nlist() source
file). NetBSD now defaults to getbootfile(3) if
it is available, /netbsd otherwise. OpenBSD now
defaults to /dev/ksyms if it is available, /bsd
otherwise.

Made possible compilation under BSD/OS (BSDI) 5.0
with changes to Configure, dialects/bsdi/dlsof,
dialects/bsdi/dproc.c and lib/rnmh.c. The changes
were suggested by Steven Hinkle <hinkle@bsdi.com>.
Note that these changes do not substantiate a claim
that lsof works on BSDI 5.0, because I haven't
tested it there.

Updated OpenUNIX private <sys/fs/memfs_mnode.h>,
based on a report from Larry Rosenman <ler@lerctr.org>

that it had been updated by Caldera patch OU800PK3.
Unfortunately the patch only corrects some of the
problems with the header file, so it is still
necessary to distribute a private patched version
of it with the lsof sources.

Applied a man page correction
reported by Frederic
Delanoy <max_ok@yahoo.com>.

Corrected cast bugs related to using the HP-UX
bundled C compiler on HP-UX 11.11.

4.63 April 23, 2002
Added HPUX_BOOTFILE environment variable for use
by the Configure script in determining HP-UX kernel
configuration information -- e.g., the state of
the ipis_s structure in the HP-UX 11 kernel. The
change was suggested by Marc Bejarano <beej@alum.mit.edu>.
Marc also suggested some changes to the HP-UX
section in 00FAQ that discusses Configure's use of
q4 for HP-UX 11.

Fixed a bug in the Solaris lsof file system matching
code. It was not reporting that VCHR files in
/devices were in / when /devices was in /, too.

Corrected bugs in device number, file size, file
offset, and raw device number field output generation.

Added recognition of OpenBSD 3.1 to the Configure
script with a suggestion from Peter Valchev
<pvalchev@sightly.net>. Note that this change does
not constitute a claim that lsof
works on OpenBSD
3.1, because I haven't tested it there.

Built an automated test suite. (See 00TEST and
the tests/ sub-directory of the lsof main directory).
Bela Lubkin requested it. Dale Talcott, John
Hughes, and Larry Rosenman helped me validate it
on their systems.

During the development of the test suite I discovered
the following lsof bugs or missing features, and
corrected or supplied them.

* Corrected the reporting of locks for:

o Digital UNIX 4.0d and Tru64 Unix 5.[01];
o HP-UX 10.30 and 11.00;
o OpenUNIX 8;
o UnixWare 7.1.1.

* Enabled HP-UX 10.30 and 11.00 to report open NFS file link counts.

* Corrected the reporting of UNIX domain socket names for Apple Darwin, FreeBSD 4.5 and above, NetBSD 1.4.1 and above, and for OpenBSD 3.0 and above.

* Enabled HP-UX 11.11 to stat(2) large files.

* Fixed handling of combination 32 and 64 bit device numbers in AIX 64 bit architectures.

Updated the AIX 4.3.3 NFS rnode
recognition code,
first installed at revision 4.51. It looks like
some IBM update has restored a single rnode structure
independent of the machine bit width.

Updated the NetBSD and OpenBSD sources so NetBSD
can process DTYPE_PIPE files, as OpenBSD was already
able to do.

Updated Darwin get-xnu-headers.sh script to reflect
information about a recent reorganization of the
Darwin CVS hierarchy, supplied by Allan Nathanson
<ajn@apple.com>.

Added defense against the standard I/O descriptor
attack.

4.64 June 26, 2002
Corrected some FreeBSD pre-processor directives.
David O'Brien <obrien@NUXI.com> pointed them out.

Updated lsof's main() function to: 1) close all
open file descriptors above 2 before starting; and
2) to set a non-interfering umask. Moved GET_MAX_FD
test from misc.c to proto.h, so that main() could
use it. Added multiple-include protection to
proto.h.

Moved FAQ's test suite Q's & A's to a more appropriate

section. Added
a Q&A on HASSECURITY option and
its affect on searching for open files. (That was
already in the man page.)

Updated hpux/kmem/dnode.c for HP-UX < 11 compilation
with information from John Dzubera <Zube@CS.ColoState.EDU>.
While lsof doesn't support HP-UX < 11 any more, I
try to avoid disabling it there when possible, and
a locking fix for HP-UX >= 11 in lsof 4.63
inadvertently disabled compilation of lsof for
HP-UX < 11. Fixed long-standing bug in HP-UX 10.20
lock reporting.

Removed language from the test suite programs that
requires an ANSI-C compiler. This allowed the test
suite to be validated with cc and gcc on the un-
supported HP-UX 10.20.

At the suggestion of Manuel Bouyer <bouyer@antioche.eu.org>
switched NetBSD and OpenBSD lsof from using nlist()
to using kvm_nlist(). Made the same change for
BSDI, Darwin, and FreeBSD.

Validated test suite on OPENSTEP 4.2.

In response to a suggestion from Jeff Stoner
<jstoner@blackboard.com> enhanced
support for the
FD list of the -d option to allow it to be either
an exclusion or inclusion list, using the '^' prefix
to denote exclusions.

Made adjustments for FreeBSD 4.6 and 5.0-CURRENT.
Fixed a FreeBSD /etc/make.conf CFLAGS extraction
bug, reported by Kris Kennaway <kris@obsecurity.org>,
and new a bug in the fix, reported by Eric Cronin
<ecronin@eecs.umich.edu>

Added nullfs support for FreeBSD, NetBSD, and OpenBSD
at the request of Andrew Brown <atatat@atatdot.net>.

Modified all readmnt() functions to ignore mounted-on
directory names that don't begin with '/'.

Tested on NetBSD 1.6A and OpenBSD 3.1.

Upgraded to Solaris 9 FCS with two changes to the

BETA-Refresh support: 1) an adjustment to dnode.c
for a change in the so_so (sonode) structure; and
2) addition of Solaris 9 FCS specific DNLC code.
David Comay <David.Comay@Eng.Sun.COM> sent me the
dnode.c change and Casper Dik <Casper.Dik@sun.com>
helped with the new DNLC support code.

Applied
OpenUNIX changes that permit lsof to compile
and run on the upcoming 8.0.1 release. The changes
were supplied by Robert Lipe <robertl@caldera.com>.
Larry Rosenman <ler@lerctr.org> provided a test
system.

Added Solaris fd file system support.

4.65 October 10, 2002
Adjusted for change in FreeBSD 5.0-CURRENT inode
structure, reported by David O'Brien <obrien@NUXI.com>.
Adjusted for changes in FreeBSD 5.0-CURRENT <sys/vnode.h>.
One change was reported by Anders Nordby
<anders@FreeBSD.org>. Adjusted for FreeBSD 5.0-CURRENT
on sparc64 architecture.

Enhanced the error reporting of Solaris lsof when
it detects a kvm_open() failure, and added a 00FAQ
entry on the cause, based on a report from Peter
J. Bertoncini <pjb@anl.gov>.

Enabled compiling of lsof for NetBSD 1.5 with the
NULL file system, using a patch from Andrew Brown
<atatat@atatdot.net>.

Removed a hack in the LTbigf test program that was
once needed when it was compiled on
Solaris 9 BETA-
Refresh with gcc. The hack isn't needed on Solaris
9 FCS. Janet Hempstead <jan@library.carleton.ca>
brought the need for this change to my attention.

Applied a patch, supplied by Andrew Brown
<atatat@atatdot.net>, that updates lsof for NetBSD
version 1.6F. Corrected handling of the NetBSD
nullfs.

Updated to BSDI BSD/OS 4.3 on a test system kindly
provided by Terry Kennedy <terry@tmk.com>.

Updated to FreeBSD 4.7.

Updated to Apple Darwin 1.5, 5.x and 6.x with
patches supplied by Allan Nathanson <ajn@apple.com>.
The patches include IPv6 support.

Updated Configure to use the -bnolibpath loader
option when building lsof on a PowerPC, running
AIX 5 or greater. Valdis Kletnieks
<Valdis.Kletnieks@vt.edu> informed me this was
needed. Lsof for AIX 5.x was initially developed
on the IA64, where -bnolibpath can't be used and
I didn't think to restore it to PowerPC loads when
AIX 5.x became available for that architecture.

Updated
to UnixWare 7.1.3 on a test system provided
by Larry Rosenman <ler@lerctr.org>. Removed claims
that lsof works on OpenUNIX 8.0.1, because UnixWare
7.1.3 is the release name of OpenUNIX 8.0.1.

Based on a comment that his e-mail address was
wrong in the lsof distribution from Kenneth Stailey
<kstailey@disclosure.com>, removed all e-mail
addresses from lsof documentation files except this
one, 00DIST. The addresses in 00DIST are used to
send revision release notices to those who contributed
to a revision, but the addresses in this file for
previous revisions and in other documentation files
sometimes grow stale and are never validated.

4.66 December 22, 2002
Acquired Solaris 7 and 8 test systems, courtesy of
John Dzubera <Zube@CS.ColoState.EDU>. Updated
00TEST and tests/TestDB accordingly.

Clarified FreeBSD 5.0 architecture claims at the
suggestion of David O'Brien <obrien@NUXI.com>.
Also implemented David's suggestion to change
Intel to x86.

Installed
changes to DNLC handling in OSR lsof in
preparation for handling changes in the OSR 5.0.7
DNLC cache. Information about the changes and
patches to handle them were supplied by Bela Lubkin
<filbo@deepthought.armory.com>.

Upgraded True 64 UNIX support to the 5.1B release
on a test system provided by Berkley Shands
<berkley@cse.wustl.edu> Had to used relaxed ANSI
compilation because of an error in a system header
file and other lsof source usages.

Implemented the HASNOSOCKSECURITY compile-time
option. When it and HASSECURITY are defined, lsof
will be built to list only the user's open files,
but will also list anyone else's open socket files,
provided the "-i" option selects their listing.
Updated the Customize script to ask about setting
HASNOSOCKSECURITY. Left it undefined in all dialect
machine.h header files. This change was requested
by Kenneth Stailey <kstailey@speakeasy.net> for
use with ntop.

Added support for OpenBSD
3.2 and its kernel trace
file.

Improved lsof help (-h) and version (-v) information
reporting.

Fixed a FreeBSD 4.7 and above off-by-two UNIX domain
socket path termination bug, reported by Ken Stailey
<kstailey@speakeasy.net>

4.67 March 27, 2003
Began the transition of the lsof ftp server host
name from vic.cc.purdue.edu to lsof.itap.purdue.edu.
That reflects Purdue organizational changes. This
first step makes the new name an alias to the old
one. The old name, vic.cc.purdue.edu, will remain
usable for an extended period.

Corrected a revision number reference in section
17.17 of 00FAQ on the appearance of Solaris negative
DNLC caching handing.

Updated 00FAQ discussion of compilers for 64 bit
Solaris.

Validated test suite for 64 bit Solaris 8 and gcc.

At the request of Alek O. Komarnitsky <alek@komar.org>
added the "+c <width>" option to enable optional
changing of the COMMAND column output maximum width

from the default to <width>.
The default maximum
width remains CMDL, as defined in lsof.h.

Fixed three AIX kernel bit size detection bugs,
one in the AIX Configure script stanza, the second
and third in the AIX dproc.c get_kernel_access()
function. The bugs were reported by Pierre-Yves
Fontaniere <pyf@cc.in2p3.fr>, who tested the fixes.

Added kernel event queue file support for FreeBSD,
NetBSD and OpenBSD. Andrew Brown <atatat@atatdot.net>
supplied the code.

Updated to AIX 5.2 on a test system provided by
Dale Talcott <dtalcott@purdue.edu>. Had to build
work-arounds for two missing AIX 5.2 header files,
<j2/j2_snapshot> and <proc/proc_public.h>. Corrected
an off-by-one UNIX socket addressing bug. Taught
AIX lsof to handle both jfs and jfs2 files at the
same time. Adjusted for an IBM mistake in the
sizing of the fdsinfo structure in <procinfo.h>
Toshiya Nakamura <TOSHIYAN@jp.ibm.com> helped test,

Updated to FreeBSD 4.8. Corrected another bug in
FreeBSD UNIX domain
socket name handling.

Corrected gcc build problems on HP-UX 11i, reported
by Yuliy Minchev <yuliy@mobiltel.bg>.

Updated BSDI BSD/OS support to 4.3.1.

Augmented a lock ID test on NetBSD to check if the
ID is an LWP pointer.

4.68 June 18, 2003
Enhanced Configure script's cleanup operations.

Added support for OpenBSD 3.3, based on a report
from Peter Valchev <pvalchev@sightly.net>.

Improved the description of the detached PGP
signature certificate file in the main lsof README
file, based on a suggestion from Diana Stockdale
<diana@mpl.ucsd.edu>.

Installed a work-around for FreeBSD 5.0-CURRENT on

Alpha to avoid a compiler register use complaint.

Corrected a 'c' option error message. Gnele
<blaadeleng@yahoo.com> reported the problem.

Upgraded EXT2FS and UFS support for NetBSD and
OpenBSD to handle new inode information, and the
fast UFS1 and UFS2 file systems.

With the help of Andrew Brown <atatat@atatdot.net>
determined the NetBSD snapshot
(1.6F) at which
<sys/mount.h> could be included under _KERNEL, thus
eliminating the lsof netexport.h hack. The same
change applies to OpenBSD versions 3.3 and above.

Applied a patch from Armin Gruner <ag@muc.de> that
corrects the use of the HASPROCFS definition in the
FreeBSD dialect sources.

Corrected spelling errors in 00FAQ and in the
generated 00.README.FIRST_<version> file of the
distribution archive. John Jackson <jrj@purdue.edu>
and Ray Phillips <r.phillips@jkmrc.uq.edu.au>
spotted and reported the errors.

Corrected a spelling error in a comment and incorrect
use of an alarm function in the LTsock test program.

At the suggestion of Stuart Anderson <sba@srl.caltech.edu>
added preliminary (and incomplete) SAM-FS file system
support to Solaris lsof. Completion awaits availability
of SAM-FS internals.

Fixed a Solaris device name printing bug, reported by
Ric Anderson <ric@tick.Telcom.Arizona.EDU>, only
visible when HASDCACHE is
not defined. Ric helped
test the fix.

Fixed an AIX kernel bit size handling bug related
to the NFS node (rnode) structure.

Corrected a print_kptr() function call error in the AIX
AFS code, reported by David Steiner
<david.r.steiner@Dartmouth.EDU>. Upon further reflection
and because I no longer have appropriate AIX AFS test
systems, disabled AIX AFS support in the Configure script

for AIX versions above 4.3.3.0 or AIX AFS versions above 3.5.

Added support for FreeBSD 5.1.

With advice from Allan Nathanson <ajn@apple.com> adjusted
the Darwin get-xnu-headers.sh script to access the kernel
header files needed by lsof from a new form of the Apple
open source repository.

Installed Linux and lsof library bug fixes and
improvements, supplied by Marian Jancar <mjancar@suse.cz>.
One Linux improvement handles mount strings that
have octal escapes in them, eg., \040 for embedded
blanks. Marian tested the changes.

4.69 October 16, 2003
Received and
applied an OpenBSD patch from Peter Valchev
<pvalchev@sightly.net> that replaces a ctob() call with
a sysconf() call. Peter claims sysconf() is needed for
OpenBSD on SPARC. (It is not needed for NetBSD on SPARC.)

With the upgrade of my only Solaris 7 test system
to, Solaris 8, dropped the *claim* that lsof works
on Solaris 7. That doesn't mean it won't work
there, so those who want lsof for Solaris 7 probably
should be able to build it there and it probably
will work there.

Revised lsof's DNLC handling for BSD derivatives,
including: BSDI; Darwin, DEC OSF/1, Digital UNIX
and Tru64 UNIX; FreeBSD; NetBSD; and OpenBSD. The
latest NetBSD distribution's dropping of the vnode
capability ID (v_id) required the revision.

Adjusted to the latest FreeBSD 5.1-CURRENT.

Added NetBSD support for using kvm_getproc2().

Added a patch from Andrew Brown <atatat@atatdot.net>
to handle NetBSD enum conflicts and changes in the
<miscfs/kernfs/kernfs.h> and <miscfs/procfs/procfs.h>
header
files.

Added a "#define _KERNEL" to the AIX dnode2.c source
file for compatibility with a new <j2/j2_inode.h>
AIX 5.2 header file version. The addition was

supplied by Dick Dunbar <Dick.Dunbar@Siebel.com>
and was offered as a patch to lsof 4.68/

Added support for a second type of Solaris SAMFS.
Stuart Anderson <sba@srl.caltech.edu> provided the
support. SAMFS support in lsof SOLARIS remains
scanty, because Sun won't release any details on
its kernel structures.

Dropped the *claim* that lsof works on AIX 4.3.3,
because I was unable to test it there. That doesn't
mean it won't work there, so those who want lsof
for AIX 4.3.3 probably should be able to build it
there and it probably will work there.

Updated for Solaris 10 on test systems provided by
Mike Miscevic <miscevic@hotpop.com>. Casper Dik
<casper@holland.sun.com> provided significant help.
During the Solaris 10 port found and fixed an lofs
handling bug that
prevented reporting of open lofs
file lock status.

Updated the DNLC test, LTdnlc, to provide a possible
explanation about file systems on which the test
might fail.

Modified the procedure for obtaining missing Darwin
XNU kernel header files. The new one requires more
manual intervention, but is the best that can be
done with the way Apple open sources are now
organized. 00FAQ explains the new procedures for
those not used to downloading Apple open source
files.

Added support for Apple Darwin 7.0 (Mac OS X 10.3)
with patches supplied by Allan Nathanson <ajn@apple.com>.
Dropped the *claim* that lsof builds and works on
Apple Darwin below 6.0.

Validated lsof on FreeBSD 4.9, using a test system
provided by Ben Lewis <bl@purdue.edu>.

Validated lsof on FreeBSD 5.1-CURRENT for Amd64.
David O'Brien <obrien@FreeBSD.org> provided a test
system.

Changed the NetBSD Configure stanza to do header

file searches in /usr/include by default. The
LSOF_INCLUDE
and NETBSD_SYS environment variables
may still be used to specify other search paths.
Discussions with Andrew Brown and Wolfgang S.
Rupprecht <wolfgang@wsrcc.com> led to the change.

4.70 January 16, 2004
Improved shell-portability of the linux stanza of
the Configure script with a patch from Paul Jarc
<prj@po.cwru.edu>.

Added a "silent" rule to tests/Makefile for Paul.
Updated, extended and clarified the test suite
documentation in 00FAQ and 00TEST.

Fixed Solaris 10 dlsof.h typo, reported by Mike
Miscevic <miscevic@hotpop.com>. The typo prevents lsof
from loading cleanly in Solaris 10 builds past 40.

Fixed a Solaris HSFS node number reporting bug and
added a structure definition work-around for Solaris
10.

Converted PGP signing to GPG. My previous PGP key can
be used, but the gpg "--allow-non-selfsigned-uid"
option may have to be used when it is imported into a
GPG key ring.

Added bz2 compression.

Updated for OpenBSD 3.4.

Added
a work-around for a missing header file in the
s10_44 Solaris 10 build.

Added support for FreeBSD 5.2-BETA and 5.2-CURRENT.

Updated Linux AX25 support with modifications supplied
by Lutz Poetschulat <dl9cu@db0zwi.de>.

Added raw IPv6 support to Linux lsof.

Improved handling of parameters after "-i@".

Improved file name test in LTdnlc.c.

Added loop count controls to the reading of Solaris lock chains. The change was implemented as a result of a report from Steve Gonczi <steve@relicore.com>.

Based on a report from John Jackson <jrj@purdue.edu>, enabled a Solaris 10 <sys/lgrp.h> work-around for Solaris 9, too. (Patch 112233 installs an lgrp.h on Solaris 9 that needs the work-around.)

With help from Andrew Brown <atatat@atatdot.net> and John Heasley <heas@netbsd.org> added log-structured file system (LFS) support for NetBSD and OpenBSD.

Added AMD64 to the list of FreeBSD 5.x-CURRENT supported architectures. FreeBSD.org provides a test system,
courtesy of (I believe) David O'Brien <obrien@FreeBSD.org>.

Added a cast to lseek() in the HP-UX /dev/kmem-based kread() function to make it work properly with the bundled HP C compiler.

4.71 March 11, 2004

Added text file support to Apple Darwin lsof and enabled the lsof executable portion of the LTbasic test. Added support for Darwin kernel queue, POSIX semaphore and POSIX shared memory files. Tested on Darwin 7.2 (aka Mac OS 10.3.2).

Added process_kqueue() function prototypes for FreeBSD, NetBSD and OpenBSD.

Picked some lint in AIX sources, lib/rnmh.c and tests/LTsock.c.

Added "-x [fl]" cross-over option, which enables +d and +D processing to cross over symbolic links and|or file system mount points. Discussion with Johan Lindquist <johan@smilfinken.net> and Eric Williams (aka The Ghost In The Machine) <ewill3@earthlink.net> on Linux news groups revealed the need for the option.

Updated support for UnixWare 7.1.4.

Added
support for the optional reporting of socket options, socket states and TCP flags for most currently

supported dialects. John Smith <lbalbalba@hotmail.com>
and Tristan Nefzger <tn@bhtrader.com> requested the
information. The dialects and their versions for which
this feature has become available include:

AIX 4.3.2 and 5.[12]
Apple Darwin 7.2
BSDI BSD/OS 4.3.1
Digital UNIX and Tru64 UNIX 4.0
FreeBSD 4.9 and 5.2
HP-UX 11 and 11.11 (aka 11i)
NetBSD 1.6ZH
OpenBSD 3.4
OPENSTEP 4.2
OpenUNIX 8
SCO OpenServer Release 5.0.6
Solaris 2.6, 8, 9 and 10
UnixWare 7.1.[134]

Modified the Configure stanza for HP-UX 11 with better
q4 detection. Steve Bonds <3vhmxxm02@sneakemail.com>
supplied the modification.

Applied a patch from Mike Miscevic <miscevic@hotpop.com>
to enable lsof to compile with the zone support in the
Solaris 10 s10_b51 release. Added information on lsof
zone behavior to 00FAQ.

Added
a "-z [z]" option to Solaris 10 lsof. It enables
the listing of zone name and can also be used to select
the listing of processes and their files from specified
zones.

4.72 July 13, 2004
Corrected Solaris 10 ZONE column title display bug with
a patch from Joep Vesseur <Joep.Vesseur@Sun.COM>. Joep's
fix was offered as a patch to 4.71.

Based on a report from Jean-Pierre Radley <jpr@jpr.com>
about an unexpected GNU uname Configure interaction on
OSR, and working from information received from Bela
Lubkin, changed the OSR Configure stanza to use
/bin/uname instead of uname. Added an FAQ entry about
Configure version detection problems.

Added the +m and "+m m" options in response to a dialog
with Robert T. Brown <rbrown@netmentor.com>. The

options allow the creation of a mount table supplement
file which can be used on selected dialects to get
device numbers when stat(2) and lstat(2) can't deliver
them. (That's generally the result of an
inaccessible
NFS server.) Currently the new options are supported
only on Linux.

Made cpumask_t typedef _KERNEL compensation for FreeBSD
5.2-CURRENT. Refined it for 5.2.1-RELEASE with testing
help from Scott Ellentuch <tuc@ttsg.com>.

Added support for FreeBSD 4.10. Larry Rosenman
<ler@lerctr.org> kindly provided a test system.

Added support for NetBSD 2.0 with patches supplied by
Andrew Brown <atatat@atatdot.net>. Andrew also
provided two test systems.

Made handling of Linux maps file more robust, based on
a report from Jan Blunck <J.Blunck@tu-harburg.de>. As
a side benefit, made handling of generated stat(2)
information more flexible.

As a result of a discussion with Jason Fortezzo
<fortezza@mechanicalism.net>, adjusted lsof for Solaris
to obtain the maximum user name length from ut_name of
the utmpx structure, if <utmpx.h> exists.

Tested under OpenBSD 3.5.

Updated 00README information about using gcc (via the
Configure aixgcc abbrevisiation)
to compile lsof on
AIX. Ann Janssen <ajanssen@nebook.com> made me aware
the information was out of date.

Added an AIX SIGDANGER handler and some 00FAQ sections
on lsof memory usage after a discussion with Tom Qin
<tom.qin@citigroup.com> about lsof memory usage.

Added scripts/sort_res.perl5, contributed by Fabian
Frederick <fabian.frederick@gmx.fr>. The script
displays lsof output sorted by size and path name.

Improved handling of files on Linux NFS mount points
that use the root_squash option, based on discussions
with Paul Szabo <psz@maths.usyd.edu.au>.

Updated FreeBSD 5.2-CURRENT support, based on a problem
report from Filippo Natali <filippo@widestore.net>.

Corrected improper FreeeBSD 5.x-CURRENT #if condition,
reported by Kim Culhan <kimc@kim.net>.

Added a Configure script work-around for AIX 5.2 lsof
with JFS2, compiled by gcc >= 3.3. The work-around
was supplied by Florian M. Weps <fmw@hactrn.ch>.

4.73 October 21, 2004
Added
an __XPG4_CHAR_CLASS__ #define before
#include'ing <ctype.h> on Solaris to restore lsof's
ability to display special characters such as acute-e.

Added wide-character (e.g., UTF-8) support where
possible, prompted by a request from Kyungjoon Lee
<kjoonlee@gmail.com>. Some older dialects -- e.g.,
NetBSD 1.4.1 -- don't support wide characters, so the
wide character support is enabled by definitions in
each dialect's machine.h. Dialects with wide-
character support are listed in 00FAQ.

Make a FreeBSD 5.2-CURRENT adjustment for <sys/pipe.h>,
supplied by Sergey A. Osokin <osa@FreeBSD.ORG>.

Implemented a Linux feature request made by Jakub
Jelinek <jakub@redhat.com> that enhances lsof's ability
to locate UNIX domain sockets whose paths are named as
arguments. Jakub supplied suggested code.

Dropped *claims* that lsof works on AIX below 5.1, SCO
Dropped *claims* that lsof works on AIX below 5.1, SCO
Openserver 5.0.4, Tru64 UNIX 5.0, and UnixWare
below
7.1.4. Lsof will probably build and work on those UNIX
dialect versions, but I no longer have any way to test
lsof on them.

Added support for FreeBSD 5.3 and 6.0. The FreeBSD
5.3 support hasn't been tested.

Added FD test code that will allow dialect versions to
test FD option selections. Used the new code in the
PSTAT-based HP-UX lsof to enable it to avoid scanning
the mount table when its information is not needed.

The addition was made in response to a query from
Harvey Garner <Harvey.Garner@championusa.com> about
lsof performance in a busy NFS environment.

Upgraded lsof's AIX support level to AIX 5.3, based on
a report from Dick Dunbar <Dick.Dunbar@Siebel.com>. (I
have not tested lsof under AIX 5.3.) Based on Dick's
recommendation and local testing changed the C for AIX
version 6 and higher -qmaxmem option value to -1.

Made LSOF_AR environment variable more useful and
documented it in 00XCONFIG.

Corrected the use of sum(1) to
generate signatures for
the lsof distribution and binaries to match the
documentation that claims it is sum -r output. Jin
Guojun <jin@george.lbl.gov> noticed and reported the
problem.

Tested under OpenBSD 3.6.

Added checksum and GPG certificate files for the bz2,
gz and Z lsof distribution archives. The new files
reside with the distribution archives and supplement
the signature information already inside the archives.

Validated on Solaris 10, i8xpc, build s10_63.

4.74 January 17, 2005
Fixed a Solaris segment fault bug on systems that lack
a /dev/allkmem device. Offered the fix as a patch to
lsof 4.73. The bug was reported by Donald Zoch
<donald.zoch@amd.com>.

Updated lsof for FreeBSD 6.0 and higher for a change in
<sys/vnode.h>, based on a report from Sergey A. Osokin
<osa@FreeBSD.ORG>. Made the update available in a 4.74
'A' edition pre-release.

Filed an HP bug report about missing pstat(2) CWD info
for LOFS on HP-UX 11.11 and higher.
The missing CWD
info was noticed by Ermin Borovac <e.borovac@bom.gov.au>.
Added info to 00FAQ about the problem, which can cause
the lsof test suite's LTbasic test to fail.

Updated the q4-generated tcp_s.h in the lsof

distribution and added socket option support for HP-UX
11.00. Erwin Reyns <ereyns@europarl.eu.int> helped
test.

Updated for Solaris 10, build s10_69, with a patch
supplied by Mike Miscevic <miscevic@hotpop.com>.

Added v_path support to Solaris 10 lsof. That relieves
it of having to read and decode the kernel DNLC, and
delivers full paths more reliably.

Added specialized NFS4 support to Solaris 10 lsof.

Applied Solaris 10 patches to lsof supplied by Casper
Dik <casper@holland.sun.com>.

Updated lsof for NetBSD 2.99.10 and tested it on a
system provided by Andrew Brown <atatat@atatdot.net>.

Added support for the FreeBSD 6.0-CURRENT f_vnode
pointer in the file structure.

Added BSDI, FreeBSD, NetBSD and OpenBSD support for
the
*effnlink member of the inode structure. This makes
the lsof LTnlink test run faster on all modified
dialects and correctly on OpenBSD.

Added ptyfs support for NetBSD, using modifications
provided by Andrew Brown.

Changed the netbsd Configure stanza to look by default
for system header files in both /usr/include and
/usr/src. (The NETBSD_SYS environment variable can
still be used to select an alternate for /usr/src.)

Corrects two FreeBSD 4.10 RPC/XDR type definitions.

Added an FAQ Q&A about setuid and setgid restrictions
in HP-UX 11.11. The information in the answer was
supplied by Frank Sanders <frank.sanders@siemens.com>.

Added abbreviations for AXI FCIO and FSNAPSHOT file
flags. Holger VanKoll <Holger.VanKoll@swisscom.com>
reported the missing FCIO.

Adjusted lsof's private AIX 64 bit rnode structure for
64 bit AIX 5.2 systems. (IBM doesn't distribute a

correct <nfs/rnode.h> for it.)

Corrected a Linux socket inode printing bug
reported by
Igor Schein <igor@txc.com>.

Updated for FreeBSD 4.11. The support compiles but
hasn't been tested.

Back-ported a FreeBSD 6.0-CURRENT fix to FreeBSD
5.3-RELEASE-p1. That was done to solve a compilation
problem reported by Radko Keves <rado@daemon.sk>.

4.75 May 16, 2005
Dropped the *claim* that lsof works on DEC OSF/1 and
Digital UNIX, since my last 4.0 test system has been
removed. The last tested distribution of lsof on DEC OSF/1
and Digital UNIX was revision 4.74. It has been archived
on lsof.itap.purdue.edu in pub/tools/unix/lsof/OLD/src.

Added negation forms to the values in the -g (PGID) and
-p (PID) lists. Negated PGID and PID values, like
negated UID or login name values, are applied without
ORing or ANDing and take effect before any other
selection criteria are applied.

At the request of Marcin Gozdalik <gozdal@gmail.com>
added a -X option for Linux. The option inhibits the
reading of the /proc/net/tcp* and /proc/net/udp*
files.

Based
on a report from David Gutierrez
<davegu1@hotmail.com> changed DEC OSF/1 process table
allocation to request memory in smaller increments.

Based on a report from jayjwa <jayjwa@atr2.ath.cx>
updated the Customize script to use "tail -n 1" where
possible.

Enabled support for FreeBSD 5.4.

Improved the BSDI, FreeBSD, NetBSD, OpenBSD and Solaris
kvm_open() and kvm_openfiles() error messages.

Enabled support for NetBSD 2.99.12.

Improved HP-UX Configure stanza with help from Piet

Starreveld <pstarrev@csc.com>. Picked some lint Piet found.

Enabled IPv6 support for HP-UX > 11. Piet Starreveld helped test it on 11.23, among others.

Updated for HP-UX 11.23 on the ia64 architecture.

Updated to latest FreeBSD 6.0-CURRENT, using a test system provided by Andrzej Tobola <ato@iem.pw.edu.pl>.

Added support for SCO OSR 6.0.0 and UnixWare 7.1.4 with help from Richard at SCO.

Corrected a Linux bug in NFS handling, reported by Karel Zak
<kzak@redhat.com>. Karel supplied a patch.

Improved the code for accessing an AIX 3.2 and higher sockaddr_un structure, thus eliminating a segmentation fault possibility.

Updated for AIX 5.3.

Added preliminary (DEBUG) support for the AIX SANFS file system.

Fixed a bug in the Solaris 10 processing of the vnode's v_path pointer with code supplied by Edward Jajko <ejajko@portal.com>. The fix was offered as a patch to 4.74.

Dropped support for OpenUNIX 8, since a test system is no longer available. Archived an OpenUNIX-only distribution of the last revision (4.74) tested on OpenUNIX in pub/tools/unix/lsof/OLD/src.

Tested under Openbsd 3.7.

Tested under Darwin 7.7.0.

Enabled building on amd64 Solaris 10 with hints from Marc Aurele La France <tsi@ualberta.ca>. Marc provided a test system.

Supplied a missing quote in the FreeBSD Configure stanza. Carl Cook <Info@quantum-sci.com> reported the problem.

Removed "-O" option from
tests/Makefile so that the
HP-UX bundled compiler won't complain.

4.76 August 30, 2005
Corrected an example and spelling errors in man page.

Updated for Apple Darwin 8.x with changes supplied by
Allan Nathanson <ajn@apple.com>. Allan also provided a
test system.

Completed documentation of CLRLFILEADD in all machine.h
files.

At the request of Chris Markle <cmarkle@sendmail.com>
added partial listen queue length to socket options
displayed when -Tf is specified. Partial queue length
is not reported for all dialects. (00FAQ lists the
ones where it is reported.)

Updated for FreeBSD 7.0 with information supplied by
Andrzej Tobola <ato@iem.pw.edu.pl>.

Updated Solaris VxFS support for VxFS versions 4 and
above with technical advice from Craig Harmer
<craig_harmer@symantec.com>, Gary Millen
<gary_millen@symantec.com> and Chuck Silvers
<charles_silvers@symantec.com>. Testing help was
provided by Michael Antlitz <mantlitz@prophasys.com>,
Steve
Ginsberg <steve@dhapdigital.com> and Kenneth
Stailey <kstailey@yahoo.com>.

Fixed a Solaris address space map processing bug.
Janardhan Molumuri <mjanardhan@gmail.com> reported the
bug and help me identify it. Made the fix available as
a patch to 4.75.

Added support for Solaris 10 port and CTFS files. The
CTFS support is imcomplete, because I don't know how
to get inode number, size and link count. (There's
a new 00FAQ entry about that.)

Investigated a report from Christopher J Warweg
<warwegc@GAO.GOV> that the CHECKSUMS for the lsof 4.75
binary for 64 bit Solaris 8 was incorrect. It was my
packaging error. I rebuilt and repackaged the binary.

Enabled support for Linux map file names with embedded
spaces.

4.77 April 10, 2006
Added -X option support for Solaris 10 and above. When
-X is specified lsof will report cached v_node path
names for unlinked files, followed by "(deleted)".
Improved cached vnode path name handling by adding
"(?)"
to the end of path names of questionable accuracy.
Updated 00FAQ to reflect these changes.

Updated for FreeBSD 7.0-CURRENT.

Fixed name addition spacing bug, reported by Stuart
Anderson <anderson@ligo.caltech.edu>. Also updated
Solaris 10 SAMFS support at Stuart's request.

Added missing "break;" and another HASSTATVFS test to
the NetBSD and OpenBSD dnode.c. Bill Behr
<bbehr@networkstoragecorp.com> reported those needs.

Fixed an HP-UX 11 file descriptor "chunk" size problem,
reported by Per Allansson <per@appgate.com>. Per helped
devise the fix and tested it. This fix was offered as
a patch to lsof 4.76.

Updated for FreeBSD 6.0-STABLE and FreeBSD
6.1-PRERELEASE.

Updated scripts/sort_res.perl5 with changes supplied by
Frederick Fabian <fabian.frederick@skynet.be>, the
author of the script.

Corrected +|-M man page documentation error, reported
by Roger Cornelius <rac@tenzing.org>.

Improved FreeBSD user device random seed generation in
response
to a problem report from Danny Braniss
<danny@cs.huji.ac.il>.

Eliminated three syntax error bugs and other compiler
complaints from the PSTAT-based lsof. H. Merijn Brand
<h.m.brand@xs4all.nl> reported the problems and tested
the fixes.

Eliminated compiler complaints in the test suite.

Investigated problems with the building of lsof on
PA-RISC HP-UX 11.23, based on a report from John
Orndorff <John.Orndorff@sungard.com>. Found that
neither the HP bundled C compiler nor gcc would build
lsof, but the the HP unbundled ANSI C compiler would.
Concluded that HP bundled C compiler can't handle
<gssapi/gssapi.h>. Devised a work-around to gcc's
omission of the rpcent structure definition of
<netdb.h> that allows it to compile lsof's print.c, but
the resulting binary doesn't run reliably. Documented
the situation in 00FAQ.

Changed reporting of unknown file types. The number of
an unknown type is now reported as four octets. The
change was
made in response to a Linux lsof bug report
from Karel Zak <kzak@redhat.com>.

Dropped the *claim* that lsof works on BSDI BSD/OS
since my last test system has been removed. The last
tested distribution of lsof for BSDI BSD/OS was
revision 4.76. It has been archived on
lsof.itap.purdue.edu in pub/tools/unix/lsof/OLD/src.

As a result of discussing the lsof source tar's MD5
checksum with Andrew Bell <andrew.bell.ia@gmail.com>,
changed the description of a suitable MD5 tool in the
lsof distribution's documentation to name the openssl
"dgst" command.

Enabled compilation on Solaris 10 1/06 with a fix sent
by Jason Fortezzo <fortezza@mechanicalism.net>. Made
the fix available as a patch to 4.76.

Adjusted to FreeBSD 5.5-PRERELEASE.

Corrected a bug in the lsof library's process_file()
function to enable the locating of AIX XTI sockets by
their TCP/IP address values. The bug was reported by
Michel Dubois <Dubois@sears.ca>.

Based on a bug report
from Karel Zak <kzak@redhat.com>
added command name length checking to as many dialects
as possible (Linux for Karel) for the "-c c" option.

Updated for OpenBSD 3.[89]. Tested the 3.9 update on a system provided by David Mazieres. I have not tested on OpenBSD 3.8, but David reports lsof 4.76 worked there.

Ended regression testing of lsof on 32 bit Solaris 8 with the ending of access to a test system. Lsof continues to be tested on 64 bit Solaris 8.

4.78 April 24, 2007

Added more information to the lsof FAQ about missing link counts and sizes on Linux files.

Simplified Linux stat() and lstat() usage.

Relocated #define's that prevent OpenBSD compilation on systems without a /proc file system. Pieter Bowman <bowman@math.utah.edu> reported the problem.

Added code to avoid processing Linux /proc/<PID>/maps file entries with zero device and node numbers. Some such entries now have names associated with them that are not path names -- e.g., "[heap]", "[stack]" or "[vdso]". Scott Worley <sworley@chkno.net> reported lsof's mishandling of such entries.

Added SELinux security context support, provided by James Antill <james.antill@redhat.com>. I have not tested this, but James and Karel Zak <kzak@redhat.com> have.

Added the #include of <sys/types.h> to Solaris lsof to enabled compilation on Solaris 10 6/06. Peter Harvey Peter.Harvey@Sun.COM diagnosed the problem and supplied a patch.

Added better support for JFS2 on AIX 5.2 and 5.3, based on bug reports and help from Thomas Braunbeck <BRAUNBEC@de.ibm.com> and Tom Whitty <TWHITTY@cerner.com>.

Documented that lsof supports AIX 5.3 only up through maintenance level 1 (ML1).

Enabled Solaris lsof to locate the AFS vnode operation address for OpenAFS 1.4.1. The fix was supplied by Robert Jelinek <Robert.Jelinek@MorganStanley.com>.

Enabled support for Solaris 10 ZFS. If the necessary
ZFS header files aren't found, lsof offers the option
to
drop ZFS support, to use internal, possibly
inaccurate structure definitions, or to supply a path
to the missing header files. Horst Scheuermann
<Horst.Scheuermann@uni-trier.de> provided a development
system and helped test the support.

Corrected a typo in the man page, reported by Eric S.
Raymond <esr@thyrsus.com>.

Changed the spelling of macroes to macros in lsof
source and documentations files, based on a suggestion
from Josh Soref <timeless@gmail.com> and verification
with the OED.

The following dialects are no longer supported: 32 bit
AIX 5.2, HP-UX 11, OpenStep 4.2, Solaris 2.6, Solaris
8, True Unix 64 and UnixWare 7.1.4. Lsof may work on
them, but I no longer have test systems for them.
Support for OpenBSD ends at its version 3.9 for lack of
interest in the port.

4.79 April 15, 2008

```
**************** IMPORTANT NOTE ******************
*                                    *
* Lsof support has been reduced to the following
*
* dialects: AIX, FreeBSD, Linux and Solaris, and *
* only in selected versions of those dialects.   *
* The selected versions are listed in this file  *
* and in other lsof documentation.               *
*                                    *
* I have made this move because of retirement    *
* and because I no longer have many test systems *
* available to me.                               *
*                                    *
* Vic Abell                                      *
*                                    *
****************************************************
```

Fixed a Solaris VXFS permission problem when accessing
the VXFS inode offsets. The bug was reported by
Gregory A. Ivanov <ivga@mts.ru>. Gregory tested the
fix.

Moved an #include <string.h> later in FreeBSD dlsof.h
to enable compilation on recent FreeBSD releases. The
change was supplied by Roy Marples <uberlord@gentoo.org>.

Improved
Linux /proc file stream reading speed by applying
an expanded version of a patch from Eric Dumazet
<dada1@cosmosbay.com> that allocates a page size buffer
to each stream. Improved TCP, TCP6, UDP and UDP6 hashing
by determining the hash bucket count from the /proc/net
sockstat and sockstat6 files. The improvement was
suggested by Eric and he provided sample code. Eric also
tested both improvements.

Modified Configure script to build lsof on FreeBSD
6.2. Tested it on a system provided by Larry Rosenman
<ler@lerctr.org>.

Fixed a Linux maps file processing bug that prevented path
names from having an embedded colon. James Lingard
<jchl@arastra.com> reported the bug and helped with its
fix.

Based on reports from Eric Dumazet and Samuel Thibault
<samuel.thibault@ens-lyon.org> added support for the
Linux 2.6.22 kernel's /proc/<PID>/fdinfo files -- i.e.,
file offset and flags. Samuel Thibault provided a test
system.

Fixed a Linux UNIX socket
memory leak, reported by
Philip Shin <pshin@xceedium.com>. Phillip supplied the
fix.

With generous assistance from HP added support for an HP-UX
11.23 patch that makes TLI/XTI socket address information
available.

Fixed a header file problem for FreeBSD 6.2 on the Alpha
architecture. The problem was reported by Pekka Honkanen
<phonkane@cc.hut.fi>. Pekka tested the fix.

Based on a report and using suggested fixes from Karel Zak
<kzak@redhat.com>, made these changes to Linux lsof: corrected
a getpidcon() error message; insured that inode numbers are
handled correctly for their unsigned long long type; and
improved SELinux handling. At the request of Alon Bar-Lev
<alonbl@gentoo.org> added the LINUX_HASSELINUX environment

variable to enable or inhibit SElinux support unconditionally.

Updated Configure for FreeBSD 8.0-CURRENT and tested lsof on
AMD64 there.

Added a patch provided by Oles Hnatkevych
<don_oles@able.com.ua> for FreeBSD systems where
the root
file system is on a CD9660 device.

Added compensation for the disappearance of FMARK and FDEFER
from the FreeBSD 8.0-CURRENT <sys/file.h>.

Updated FreeBSD lsof with ZFS support. Larry Rosenman
<ler@lerctr.org>, Erwin Lansing <erwin@FreeBSD.org>, Wesley
Shields <wxs@atarininja.org> and Dmitry Morozovsky
<marck@rinet.ru> provided test systems.

Fixed a socket file identification problem reported by
Pavol Rusnak <stick@gk2.sk>. Pavol also reported the
cause of the problem.

Added the ability to format the repeat mode marker line
with strftime(3), where the dialect supports the
localtime(3) and strftime(3) C library functions. The
addition was suggested by Mike Depot <mdepot@comcast.net>,
who also tested it. The addition required creating a new
main lsof source module, util.c, that contains functions
whose compilation conflicts with the general header file
tree defined by lsof.h and dlsof.h.

Based on reports from Andrei V. Lavreniyuk
<andy.lavr@reactor-xg.kiev.ua>
and Pav Lucistnik
<pav@FreeBSD.org> updated the FreeBSD 7.0 and above
file lock handling to use new locking structures. The
update requires a terrible hack to get a definition for
the lock owner structure from a kernel source module
into a local lsof header file.

4.80 May 12, 2008
Updated for a FreeBSD 7.0 and above byte level locking
change. The problem was reported by Conrad J. Sabatier
<conrads@cox.net>, who helped test the update. Wesley
Shields <wxs@FreeBSD.org> provided an 8.0-CURRENT test
system.

Propagated the FreeBSD 7.0 and above locking changes to

FreeBSD 6.x, based on a report from Edwin Groothuis
<edwin@FreeBSD.org>.

Added warnings for unsupported dialects or versions.

Added Linux support for the UDPLITE protocol. Eric
Dumazet <dada1@cosmosbay.com> supplied a patch.

Added a missing quote to the Configure script's
FreeBSD stanza.

Added a usage.o rule to the HP-UX PSTAT-based
Makefile. I mistakenly
deleted the rule at revision
4.79. The missing rule was reported by Kawaljeet Kaur
<kawaljeet.malviya@gmail.com> who tested the corrected
Makefile.

4.81 October 21, 2008
Updated the Darwin libproc sources with changes from
Allan Nathanson <ajn@apple.com>. Tested them on a iMac
mini, provided by Apple Inc.

Changed dummy declarations in library source files to
eliminate complaints about unused variables and empty
object files. This change may not work on dialects I
can no longer test; it has been tested on some versions
of AIX, Darwin, FreeBSD, Linux and Solaris.

At the request of Hal Brooks <hal@uga.edu> added support
for Linux /proc/net/packet files. Hal tested it.

Added socket file only performance enhancements to Linux
and PSTAT-based HPUX lsof.

Added htonl call around improper usage of INADDR_LOOPBACK;
report from an Apple engineer forwarded by Allan Nathanson
<ajn@apple.com>.

Adjusted for FreeBSD-8.0 change in device number
handling.
The adjustment should work for FreeBSD 5 and above, should
the 8.0 change be propagated downward. The problem was
reported by Pav Lucistnik <pav@FreeBSD.org>. An updated
test system was provided by Erwin Lansing <erwin@FreeBSD.org>.

Reduced AIX support to version 5.3, since test systems with
older versions are no longer available to me.

At the request of Marjo F. Mercado <mmercado@xceedium.com>
and Phil Shin <pshin@xceedium.com> applied some speed
improvements to lsof, particularly when the files of
interest are /Internet files -- i.e., selected with lsof's
"-i" option. Added a two new options to assist the
improvements: 1) "-c^<command>" to tell lsof to exclude the
named command(s); and 2) "-stcp|ud>:[^]state' to tell lsof
to include in its reporting or exclude ('^') from its
reporting Internet files in the named states (e.g., LISTEN,
^CLOSE_WAIT, IDLE, etc.) For the most part these changes
apply only to AIX, Darwin, FreeBSD, PSTAT-based
HP-UX, Linux
and Solaris, since those are the only places I could test
them. They are controlled by the HASTCPUDPSTATE definition
in each dialect's machine.h header file. Marjo and Phil
provided HP-UX 11.23 and 11.31 test systems.

Fixed a stat(2) problem on HP-UX 11.31 while testing the
speed improvements.

Adjusted for kernel header file changes in FreeBSD
8.0-CURRENT. Larry Rosenman <ler@lerctr.org> provided
a test system.

Added a warning for Solaris systems where VxFS node info
can't be obtained from the VxFS utility library. The
warning was requested by Tom Matthews <Tom.MATTHEWS@rbs.com>.

Corrected mishandling of file system path name arguments
that have trailing slashes, except, of course, the root
file system, "/". Allan Nathanson <ajn@apple.com> reported
the bug.

4.82 March 25, 2009
Corrected an over-zealous exclusion test that caused
lsof to report nothing when it was given no arguments
and built with HASSECURITY and HASNOSOCKSECURITY
enabled.
Joshua Kinard <kumba@gentoo.org> reported the bug and
supplied information for reproducing it.

Based on a report from Dan Trinkle <trinkle@cs.purdue.edu>
corrected use of <sys/utsname.h> for 32 bit Solaris 10
and above compilations. Simultaneously eliminated a
casting complaint in arg.c and updated Configure to use
the appropriate 64 bit compilation option (-xarch=v9 or
-m64) with the Solaris Sun C compiler.

Updated for FreeBSD 7.1-PRERELEASE with information
supplied by Larry Rosenman <ler@lerctr.org>.

Updated the Darwin libproc sources with changes from
Allan Nathanson <ajn@apple.com>. Tested them on a iMac
mini, provided by Apple Inc. Allan also provided man
page corrections.

Updated the FreeBSD Makefile to use the ${MAKE} variable
for ZFS dnode2.c module compilation, based on a suggestion
from Alexis Ballier <aballier@gentoo.org>.

Improved the Solaris VxFS library location test, based on a
suggestion from Jason Fortezzo
<fortezza@mechanicalism.net>.
Jason tested the change.

Updated Solaris 10 ZFS support for ZFS version 4 and ZFS
pool version 10, using a test system kindly provided by
Vladislav Nespor <vladislav.nespor@id.ethz.ch>. Renata
Maria Dart <renata@slac.stanford.edu> tested on ZFS
version 4, verifying that the update works there, too.
(ZFS pool version 10 is apparently the ZFS version shipped
with the 10/08 update to Solaris. The original ZFS
support targeted ZFS version 3.)

I still consider ZFS support in Solaris lsof a hack,
because it depends on a znode structure definition that
I developed using dbx. Sun is remiss in not distributing
the ZFS header files used to build the distributed kernel.

Because of the znode structure definition hack, I can't
guarantee that lsof ZFS support will work for any other
versions of ZFS.

Solaris 10: adjusted to a change in the way devices are
stored in the kernel; fixed a problem in zone handling;
and added rudimentary
sharedfs support. Carson Gaspar
<carson@taltos.org> reported the device number problem,
provided a test system, and tested the changes. Peter
Vines <psv2b@eservices.virginia.edu> reported the zone
handling problem and tested the fix.

Adapted to FreeBSD 8.0-CURRENT changes in device number
computation. Problem was reported by Erwin Lansing
<erwin@FreeBSD.org>. Larry Rosenman <ler@lerctr.org>

provided a test system.

Corrected Solaris Configure test for appropriate VxFS
library when using gcc to compile lsof.

Updated for loss of KAME IPv6 FreeBSD accommodations.

Adapted to FreeBSD 7.2. Made Configure script recognized
FreeBSD 6.3.

4.83 January 18, 2010
Converted Solaris 10 and above ZFS support to use the CTF
debugger library, libctf. Code was supplied by Robert
Byrnes <Robert.Byrnes@deshaw.com>.

Corrected a typo in the testing of the LINUX_HASSELINUX
environment variable in the Configure script. The error
was reported by Mike Frysinger
<vapier@gentoo.org>.
At Mike's request made Configure script accept LSOF_RANLIB
(ranlib command), LSOF_CFGF (additional configuration flags)
and LSOF_CFGL (additional library specifications) from the
environment.

Enabled complilation of Solaris 10 lsof after a recent Sun
patch which changed the PC file system's structure. Peter
Vernam <pvernam@draper.com> reported the problem and helped
with the fix.

Made the sort of configuration CFLAGS in the CkTestDB
script impervious to locale settings.

Ported to Solaris 11, using a test system kindly provided
by David Day <dday76@gmail.com>.

Adjusted to the disappearance of <nfs/rpcv2.h> in FreeBSD
8.0-BETA1.

Changed Solaris node type lookup to a hashed method and
added some ability for it to handle duplicate vnodeop names
in /dev/ksyms.

Updated for FreeBSD 9.0-CURRENT. Andrzej Tobola
<ato@iem.pw.edu.pl> provided a test system. Extends the
fix to FreeBSD 6.0 and above via a Configure test and
a
compile-time definition. The need for the extension was
reported by Erik Trulsson <ertr1013@student.uu.se>>

Made corrections to FAQ typographical errors, suggested
by Josh Soref <timeless@gmail.com>.

Added __UCLIBC__ test to Linux dlsof.h so lsof would compile
on an Intel ARM XScale processor. The addition was provided
by Doug Kehn <rdkehn@yahoo.com>.

Added test for <utmpx.h> to FreeBSD configuration. Improved
its use in lsof.h. The changes were supplied by Martin Wilke
<miwi@FreeBSD.org>.

4.84 July 29, 2010
Fixed a man page nroff command error with a correction
supplied by Josh Soref <timeless@gmail.com>.

Made Configure script recognize FreeBSD 7.3. Larry Rosenman
<ler@lerctr.org> provided a test system.

Improved task support, initially for Linux only, with help
provided by Jerome Marchand <jmarchan@redhat.com> and
Miklos Szeredi <mszeredi@suse.cz>. The support includes a
new compile-time definition, HASTASKS, and a new run time
option,
"-K" to select task reporting.

While adding help output support for "-K", reorganized the
printing of help columns to make it much easier to add a new
option description.

Updated the Solaris PC file system structure patch in
revision 4.83 so it will compile with gcc.

Disabled the Solaris lgrp_root work-around in the Solaris
machine.h so it won't cause compilation problems on Solaris
11. It no longer causes compilation problems on my Solaris
9 and 10 test systems, but some older Solaris 9 and 10
versions may still need it, so the work-around was left in
the Sun machine.h and a FAQ entry was created about it.

Updated for Solaris 11 b134, using a test system kindly
provided by Carson Gaspar <carson@taltos.org>. Made
provisions for the next ZFS version. Added info about
the failure of the LTnlink test on ZFS file systems.

Corrected typo in Configure script, reported by Dmitry
Berezin <dmitryb@oit.rutgers.edu>.

4.85 September 27, 2011

John Dzubera <Zube@CS.ColoState.EDU> kindly provided a patched Solaris 9 test system with the lgrp_root conflict and I was able to devise an automatic work-around for the conflict. The special note in .../dialects/sun/machine.h was removed and the 17.28.1 FAQ entry was modified to reflect the update.

Added a Solaris 11 work-around for a typedef problem with <sys/mutex.h>. Carson Gaspar <carson@taltos.org> reported the problem and supplied the work-around.

Added support for FreeBSD 7.4 and 8.2; tested on systems provided by Larry Rosenman <ler@lerctr.org>.

Added support for 32 bit Solaris 11 lsof with mods supplied by Jan Wortelboer <J.H.P.Wortelboer@uva.nl>.

Added Solaris 11 support for using an alternate genunix location. Bill Goodridge <bill@its.brooklyn.cuny.edu> reported the alternate location.

Added further Linux cross configuration support to lsof's Configure script. The additional support was supplied by Grant Erickson <erick205@umn.edu>.
See the descriptions of
the LINUX_* environmen variables in 00XCONFIG for more information. Tested lsof on Linux kernel 2.6.32 and picked some lint that surfaced during the test.

Added fixes and changes for Apple Mac OS X 10.6, provided by Allan Nathanson <ajn@apple.com>. Allan also provided a test system.

Tested on FreeBSD 6.4 i386, using a test system provided by Terry Kennedy <TERRY@tmk.com>. Updated for recent FreeBSD ZFS changes on an 8.2 amd64 test system also provided by Terry.

Changed documentation to indicate FreeBSD 7.x is no longer supported, since I no longer have a test system.

Made some changes to the lsof man page, suggested by Navid <evi1m4chine@googlemail.com>.

Added compensation for Solaris 10 systems that have patch 144488-10. The patch requires that the new header file <sys/socket_proto.h> be included while _KERNEL is defined. Brett Bartick <Brett.bartick@nomura.com> reported the problem

first, followed by Stuart Anderson
<anderson@ligo.caltech.edu>.
Michael Hocke <michael.hocke@nyu.edu> suggested a work-around
which I refined to limit it to the specific Solaris 10 instance
and then tested on a system provided by Charles Stephens
<cfs@cowlabs.com>

Added the +|-e option for Linux. It exempts file systems
named by path from function calls that might block in the
kernel -- i.e., stat(2) and lstat(2), and when the +e form
is used, readlink (2). The new packager of lsof for the
Linux Fedora and RHEL distributions, Peter Schiffer
<pschiffe@redhat.com>, asked for the feature so it could
be used with Clearcase file systems, whose implementation
can block stat(2) calls. I consider this feature very risky
and easy to misuse -- e.g., specifying the file system as
'/' would exempt all file systems. I don't intend to
propagate this option to any other UNIX dialect that lsof
currently supports.

Made FreeBSD 9 adjustment.

Fixed a Linux bug that prevented the display of paths
for
abstact UNIX sockets. Masatake Yamato <yamato@redhat.com>
reported the bug and supplied a patch.

Added compensation for the removal of RPC header files from
GlibC 2.14 for Linux. Marek Behun <kabel@blackhole.sk>
reported the problem and supplied a patch.

Added support for Linux Netlink protocol. Masatake Yamato
requested the support and supplied a patch. Peter Schiffer
<pschiffe@redhat.com> provided a test system.

Corrected Linux UDP6-lite path. The error was reported by
Masatake Yamato and he also supplied a patch.

4.86 April 10, 2012
Lsof for AIX is no longer supported on any versions of that
operating system.

Added information about the clang compiler for FreeBSD to the
FAQ.

Corrected an arg.c bug in the accumulation of +|-e option
values, reported by Peter Schiffer <pschiffe@redhat.com>.
This correction was supplied as a patch to revision 4.85.

Enabled FreeBSD 10 support and tested it there on a system provided by Larry Rosenman <ler@lerctr.org>.

Updated for latest Solaris 11 with patches supplied by Carson Gaspar <carson@taltos.org>. Carson supplied a test system.

Adjusted Linux file system search method to compensate for NFS mounts that have duplicate device numbers. The problem was reported by Peter Schiffer <pschiffe@redhat.com>, who provided a test system.

At the request of Peter Schiffer <pschiffe@redhat.com>, added support for Linux SCTP socket files. Peter provided a test system. Applied a warning patch supplied by Peter.

Added support for Mac OS X 10.7 (Lion), provided by Allan Nathanson <ajn@apple.com>. Allan also supplied a test system.

Enabled FreeBSD 8.3 support and tested it there on a system provided by Larry Rosenman <ler@lerctr.org>.

Corrected the FAQ information on ZFS with Solaris 10 after Steven Blackmon <stblackm@cisco.com> and Prasad Jampala <jampalp@cisco.com> pointed out that it was incorrect -- i.e., outdated by the libctf changes at revision 4.83.

Added code to handle a Linux NFS-mounted root. Jia He <hejianet@linux.vnet.ibm.com> reported the need for this.

4.87 January 2, 2013

Added an entry to 00FAQ about lsof behavior when the HASSECURITY and HASNOSOCKSECURITY options are defined. Carson Gaspar <carson@taltos.org> pointed out the need for this clarification.

Added a work-around for a missing definition of mach_port_t in Darwin 9 (Mac OS/X 10.5.8). The work-around was supplied by Jim Reid <jim@rfc1035.com>.

Added support for Linux anon_inodefs, provided by Masatake YAMATO <yamato@redhat.com>.

Documented a Solaris 9 and 10 portmap reporting problem

(+M) in 00FAQ. The problem was reported by Clint Roberts <Clint.Roberts@ttius.com>. I have no solution to the problem, but discuss a possible work-around in the answer to this 00FAQ question: "Why doesn't lsof report portmap registrations for some Solaris versions?"

Added FreeBSD support for the oldnfs and newnfs file system types.
Daniel Braniss <danny@cs.huji.ac.il> reported the need for the addition.

Added ICMP socket support for Linux with code provided by Masatake YAMATO <yamato@redhat.com>.

Corrected the reporting of process group ID for libproc versions of Mac OS X with a patch from Jeff Trawick <trawick@gmail.com>. The patch has not been applied to Darwin kmem versions, because of little call for them and inadequate test system access. The patch has been tested on Mac OS X 10.8 (Mountain Lion), courtesy of a test system provided by Allan Nathanson <ajn@apple.com>.

Added thread support to those FreeBSD versions that have ki_numthreads in their kinfo_proc structure. This also activates the -K option for those FreeBSD versions. Jeff Trawick reported problems with FreeBSD lsof when threads are present and this addition solves those problems.

Made changes to 00FAQ and the distribution, suggested by Warren Young <warren@etr-usa.com>. The 00FAQ changes center
on sections that discuss the -s option. The changes to the distribution include a ChangeLog file that is either a pointer to or a copy of 00DIST, the distribution notes.

Added support to FreeBSD for using the clang compiler.

Added Linux support for using the getxattr() call to obtain socket protocol identification when it is can't be obtained from the /proc/net files that lsof examines. Masatake YAMATO <yamato@redhat.com> developed the kernel patch to getxattr() and supplied the lsof patch.

4.88 October 13, 2014
Reduced to 50 the number of open file descriptors lsof attempts to close while trying to protect itself from a file descriptor exec() attack. This limits the overhead lsof incurs on systems that have large file descriptor

limits, yet provides sufficient open descriptors for the
library functions lsof calls.

Updated for changes in FreeBSD 10 with advice from Eygene
Ryabinkin <rea@freebsd.org>. Taught Configure to recognize
FreeBSD
8.4.

Herein am noting that lsof for Solaris 10 or 11 is no longer
supported. I no longer have test systems. Some support is
still available from Casper Dik <Casper.Dik@oracle.com> and a
Solaris 11 patch he provided is included in this revision.

Initialized local variables in the Linux process_id() function.
Jia He <jiakernel@gmail.com> reported the problem.

Added support for FreeBSD 11.

Updated FreeBSD ZFS Configure stanza to supply a dummy
opt_kdtrace.h when needed.

Added tmpfs file system support for FreeBSD.

Since a test system is no longer available, dropped the
claim of FreeBSD 4.9 support.

Added the +|-E options for Linux. -E displays endpoint info;
+E displays endpoint info and endpopint files. Masatake YAMATO
<yamato@redhat.com> requested this support and suggested code
to implement it.

Fixed a Linux bug handling processes whose command includes a
non-printing character, particularly a NEWLINE character, and
clarified printing
of single '\\' characters in command and
file names. Stephane Chazelas <stephane.chazelas@gmail.com>
reported the problem.

Added support for Linux RDMA and CRYPTO protocal names and UNIX
socket type with code from Masatake YAMATO <yamato@redhat.com>.

Fixed field output to insure that the field descriptor field is
always selected, since it identifies the file set. The bug was
reported by Gary Plewa <gary.m.plewa-1@lowes.com>.

4.89 July 7, 2015
Applied correction from Casper Dik <Casper.Dik@oracle.com> to
his patch for Solaris 11 that I applied incorrectly in revision

4.88.

Updated for latest version of FreeBSD 11.0-CURRENT.

Compensated for a missing FreeBSD 10.0 typedef of bool on the
i386 architecture. Allen Hewes <rallenh@hotmail.com> provided
a test system. Andrey Chernov <ache@freebsd.org> provided
useful advice.

Improved tests/Add2TestDB script with a patch from Peter
Schiffer <pschiffe@redhat.com>. Added patches from Peter to
eliminate
Linux gcc warnings. Updated Lsof.8 with improvements
supplied by Bjarni Ingi Gislason <bjarniig@rhi.hi.is>.

Changed FreeBSD global CFLAGS extraction per Terry Kennedy
<TERRY@tmk.com>. Also made sure -DNEEDS_BOOL_TYPEDEF is
#define'd when the resulting CFLAGS doesn't contain it. Terry
reported that need.

Improved Linux test for tcp.h in response to a report from
Cato Auestad <cato@cato.ninja>. Cato did the testing.

Fixed Linux UNIX socket search by name bug reported by
Stephane Chazelas <stephane.chazelas@gmail.com>.

Added Linux display of UNIX socket endpoint information with
code provided by Masatake YAMATO <yamato@redhat.com>. Peter
Schiffer <pschiffe@redhat.com> provided a test system.

Insured that type definitions from <vm/vm.h> were again made
visible to lsof on FreeBSD 11 after a system header file change
hid them.

4.90 February 14, 2018

```
!!!NOTE!!!
```

```
!   Vic Abell <abe@purdue.edu>                          !
!                                                       !
!!!NOTE!!!
```

inpcb and tcpcb structures from their respective header files.

Updated FreeBSD dmnt.c for the ino64 changes.

Inserted a patch for Solaris 12.x to avoid compilation errors from <sys/aio_req.h>, based on information provided by Jorn Clausen <joern.clausen@uni-bielefeld.de>. Jorn tested the patch.

Added performance enhancement that uses the FreeBSD closefrom() and dup2() C library functions when available. The enhancement was supplied by
Conrad Meyer <cem@freebsd.org>.

Corrected FreeBSD lsof's gathering of ZFS file device numbers.

Updated lsof test library for FreeBSD.

Updated socket optons information collection from the socket structure per changes supplied by Gleb Smirnoff <glebius@FreeBSD.org>.

Added patch to dlsof.h that avoids a _KERNEL conflict with bzero. Mateusz Guzik <mjguzik@gmail.com> supplied the patch.

Corrected test library to handle 64 bit FreeBSD device numbers.

Added #defines for FreeBSD 12, src r324225, from Gleb Smirnoff <glebius@FreeBSD.org>.

Incorporated Linux pseudoterminal endpoint processing (+|-E) provided by Masatake YAMATO <yamato@redhat.com> with access to test systems provided by Peter Schiffer <pschiffe@redhat.com>.

Corrected Linux command extraction for commands that include parentheses -- e.g., "(sd-pam)".

4.91 March 26, 2018

A bug has been reported in the PTY endpoint processing of Linux lsof 4.90 by Peter Wu <peter@lekensteyn.nl>, making it necessary
for me to release another revision of lsof.

This revision applies two fixes that correct the Linux PTY endpoint processing bug. Masatake YAMATO <yamato@redhat.com> supplied the fixes.

4.92 July 14, 2018

THIS IS A FREEBSD-ONLY DISTRIBUTION!

Fixes Configure script section that creates the FreeBSD lockf_owner.h header file; fixes <string.h> conflicts with FreeBSD kernel header files. Mateusz Gusik supplied part of the fix.

Released lsof to GitHub with Purdue releases documented in support/GitHub-release.

Vic Abell <abe@purdue.edu>
July 14, 2018

4.92.1 May 6, 2019

```
!!!NOTE!!!
```

Update the version number embedded in lsof executable.

4.94.0 November 11, 2020

(All changes in this version are ported from
lsof-org/lsof-linux repository at GitHub).

Introduced a new test harness. The harness can run
test cases specific to a dialect. It is designed for
running test cases on CI
environment like Travis-CI.
However, it is runnable locally with following command
line:
$ ./check.sh DIALECT
after making lsof executable.

[linux] Fixed a bug +|-E options output for pipe.
If two processes use the same fd number for a pipe
connecting them, the option didn't print the
information about it.

[linux] Fixed a bug +|-E options output for PTY.
If two processes use the same fd number for a PTY
connecting them, the option didn't print the
information about it.

[linux] Fixed a bug +|-E options output for PTY.
The code for detecting a slave device was incorrect.

[linux] Fixed a potential bug +|-E options output for
PTY. A structure field for the feature was not
initialized.

[linux] Added a code for decoding O_PATH flag in +fg
option.

[linux] Added a code for decoding O_CLOEXEC flag as CX
in +fg option.

[linux] Added a code for decoding O_TMPFILE flag as
TMPF in +fg option.

[linux] Added Linux display of INET socket
endpoint
information with +|-E option. The option handles
INET sockets using IPC.

[linux] Added support for POSIX MQ of Linux
implementation. A POSIX message queue (MQ) is
represented in a fd on Linux. lsof reported it as a
regular file. lsof with this change reports it as a
file with PSXMQ type if mqueue file system is mounted.

[linux] Added Linux display of POSIX message queue
endpoint information with +|-E option. mqueue file system
must be mounted to display the information.

[linux] Added Linux display of INET6 socket endpoint
information with +|-E option. The option handles
INET6 sockets using IPC.

[FreeBSD] update to include <sys/_lock.h> on recent -CURRENT
since it is no longer implicitly included via header pollution.

[linux] Added Linux display of eventfd endpoint information
with +|-E option. The option handles eventfd using IPC.

[FreeBSD] include <stdbool.h> for recent change requiring
refcount(9).

Enhanced -r option.
With `c<N>' specifier, lsof can stop itself
when the number of iterations reaches at <N>.

[linux] Fixed accessing an uninitialized local variable.
Detected by valgrind.

[linux] fix a crash when printing the endpoint for unaccepted
unix socket with +E option.

This closes the github issue #74 reported by @jolmg.

[linux] abort execution when failing in memory allocation for
socket private data.

[linux] decode the name of DCCP socket type.

[linux] decode more netlink protocol numbers (RDMA, CRYPTO, and
SMC).

[linux] print the connection state of unix domain socket
Lsof can print the state of TCP socket like:

```
nc      22247 yamato    3u  IPv4 471409      0t0        TCP localhost:38802->localhost:9999 (ESTABLISHED)
```

This change exnteds this feature to support unix domain sockets.
LISTEN, UNCONNECTED, CONNECTING, CONNECTED, DISCONNECTING,
and UNKNOWN can be taken as a state.
An example of output:

```
evince    17333  yamato    1u  unix 0x0000000054183795
  0t0  89141 type=STREAM (CONNECTED)
```

This feature is enabled by default.
To turn off printing state information, use -T option.

Don't display command usage even when a file (or directory) listed
in command line doesn't exist.
This closes the github issue #90 reported by @rowlap.

[FreeBSD] merge all the FreeBSD specific fixes from the FreeBSD sysutils/lsof port

[linux] allow reproducible builds
In a reproducible build all varied information is removed. This
change does so, by checking if the standard SOURCE_DATE_EPOCH
variable is set. If it is, we are attempting a reproducible build
and will strip varying information.
About the standard, see https://reproducible-builds.org/specs/source-date-epoch/
Provided in github pull request #93 by @T4cC0re.

[freebsd] update for r363214
- no user visible changes

Added the way to include (or exclude) all numbered file descriptors
in -d option. "fd" is a pseudo file descriptor name for the
purpose.
See the following output on Linux; lsof doesn't print cwd, rtd, txt,
and mem files.

```
# ./lsof -p $$ -a -d fd
COMMAND    PID USER   FD   TYPE DEVICE SIZE/OFF NODE NAME
bash    866421 root    0u   CHR  136,1      0t0    4 /dev/pts/1
bash    866421 root    1u   CHR  136,1      0t0    4 /dev/pts/1
bash    866421 root    2u   CHR  136,1      0t0    4 /dev/pts/1
bash    866421 root  255u   CHR  136,1      0t0    4 /dev/pts/1
```

docs: fixed minor grammatical error in instructions in Customize file
The change is provided by @hardikpnsp.

man page: improve phrasing and add examples
The change is provided by Martin D Kealey.

man page: improve explanation of -t implying -w
The change is provided by Martin D Kealey.

test cases, [linux]: fix tests for large inode-numbers (i >= 2^32)
The change is provided by Henry Peteet.

[linux] handle ffff:ffff in ipv6 addr correctly
The listen address and port of an AF_INET6 socket were not display
if
the socket listened at an ipv6 address including ffff:ffff.

Here is a command session demonstrating the bug:

```
# ip -6 addr add abcd:ef10:ffff:ffff:ffff:ffff:ffff:ff62 dev lo
# nc -6      -l  abcd:ef10:ffff:ffff:ffff:ffff:ffff:ff62 8888 &
[1] 6762
# ./lsof -p 6762 -a -d fd -P -n
COMMAND  PID   USER   FD   TYPE DEVICE SIZE/OFF    NODE NAME
nc      6762 yamato    0u   CHR  136,6      0t0       9 /dev/pts/6
```

```
nc      6762 yamato    1u   CHR  136,6      0t0       9 /dev/pts/6
nc      6762 yamato    2u   CHR  136,6      0t0       9 /dev/pts/6
nc      6762 yamato    3u  sock    0,9      0t0 5833594 protocol: TCPv6
```

The last line should be:

```
nc      6762 yamato    3u  IPv6 5833594      0t0  TCP [abcd:ef10:ffff:ffff:ffff:ffff:ffff:ff62]:8888 (LISTEN)
```

The original code decoding an ipv6 address uses UINT32_MAX constant
incorrect way.

@zhrf2020 reported this bug in #102.
@zhrf2020 provided the initial version of fix, #109.

man
page,[linux]: enumerate abbreviated flags printed with '+f g' option

Make -Fo option work
-Fo option is for printing file offset. For regular files,
the option didn't work.

Here is a command session demonstrating the fix:

```
# ./lsof -Fo -o0| grep ^o | sort | uniq -c
90586 o0t0
   87 o0t101
   84 o0t103
```

...
@JustAnotherArchivist reported this bug in #118.

man page: fix definition of the `o` field on programmatic output
The change is provided by @JustAnotherArchivist who reported
the original issue in #118.

[linux]: show the pid monitored by a pidfd
With this change, lsof prints pidfd in the following form:

```
[pidfd:%d]
```

where %d represents the pid monitored by the pidfd.

Example output:

```
# ./lsof -p 12573 -p 12710 | grep pidfd
```

```
dbus-brok 12573  jet   11u  a_inode          0,13        0     13312 [pidfd:12575]
dbus-brok 12710  jet   10u  a_inode          0,13        0     13312 [pidfd:12711]
```

fd
11 of pid 12573 monitors pid 12575.
fd 10 of pid 12710 monitors pid 12711.
This change closed #116.

Don't select the file descriptor field by default.
The version 4.88 introduced the change for selecting the file
descriptor field by default. However, the change is not
suitable for users who wants to print only PID field.
@po5857 suggests the use case and the way to improve the man page.

[linux]: enumerate fds monitored by an eventpoll fd
With this change, lsof prints an eventpoll fd in the following form:

```
[eventpoll:<fd0>,<fd1>,...,<fdn>...]
```

Here fdX is a file descriptor monitored by the eventpoll fd.
If an eventpoll fd monitors too many file descriptors, lsof
truncates the list of fds. "..." at the end of list implies
the truncation.

Example output:

```
# sudo ./lsof -p 1 -a -d 10,11,12
COMMAND PID USER   FD      TYPE DEVICE SIZE/OFF  NODE NAME
systemd   1 root   10u  a_inode   0,13        0 11624 [eventpoll:11,12]
systemd
1 root   11r      REG    0,4        0 17680 /proc/1/mountinfo
systemd   1 root   12r  a_inode   0,13        0 11624 inotify
```

systemd monitors fd 11 and fd 12 via eventpoll fd 10.

[linux]: implement "make check"
The target runs check.bash.

4.95.0 April 28, 2022

[n+obsd] fix syntax error
Corrected end of comment.
This change closes #138.
@albert-github reported this issue in #138,
and provided the fix in #140

Don't ignore failures in test/Makefile
Tobias Geerinckx-Rice <me@tobias.gr> provides the fix.

Update perl scripts for the past few decades of progress
Generally, perl is available on base systems - people who are manually
installing perl into /usr/local/bin are the exception rather than the
rule. In addition, Perl 5 was release in 1994, so Perl 4 isn't relevant
any more. We've also standardized on the .pl extension, rather than
.perl5 or whatever.
Provided by @dilinger (Andres Salomon) in #149.
A commit in the pull request includes work
of Nicholas Bamber.

Drop LSOF_CCDATE across all dialects to ensure reproducible builds
Simplify things for reproducible builds by just getting rid of
the embedded date/time string. With LSOF_CCDATE gone, keeping
SOURCE_DATE_EPOCH around doesn't make much sense, so drop that as
well. Folks doing reproducible builds should still override the
LSOF_HOST, LSOF_LOGNAME, LSOF_SYSINFO, and LSOF_USER variables (as
they were previously doing before SOURCE_DATE_EPOCH).
Provided by @dilinger (Andres Salomon) in #150.

[FreeBSD] get the ISO9660 filesystem working again
The ISO9660 filesystem broke starting with FreeBSD 7 due to the header
location changing. Fix the header search path to get it to be detected
again. Fix the header inclusion order. Also add the new way of finding
dev_t on more recent FreeBSD versions.
Provided by Damjan Jovanovic in #151.

[FreeBSD] add support for msdosfs on FreeBSD
Provided by Damjan Jovanovic in #151.

Fix FD field description.
In
811dc78 the output format was changed to not printf the `f`
field by default, however the field description in `lsof_fields.h`,
as seen in `-F?` output still included the `(always selected)` text.
Provided by @algorythmic (Grisha Levit) in #158.

Adjust alignment of buffer passed to stat().

The original code passes char[] buffer to stat(). This can be cause
a SIGBUS. #160 reported an actual crash on armv7a + glibc-2.33 platform.
See also https://sourceware.org/bugzilla/show_bug.cgi?id=27993.
Reported by @10ne1 in #160.

Clean up source code and documentats.
- remove trailing whitespace,
- fix some issues in scripts found through shellcheck, and
- fix spelling
Provided by @a1346054 in #163.

man page: fix hyphen issues
Properly use '-' and '\-' in the man page, ensuring that users
can cut & paste commandline options without issue. Original
patch from Raoul Gunnar Borenius <borenius@dfn.de>, and
submitted/expanded by @dilinger (Andres Salomon)
in #168.

[FreeBSD] update for FreeBSD 13 & 14, and various internal changes
submitted by @DmitryAndric & @emaste.

[FreeBSD] remove various old FreeBSD versions from support
submitted by @emaste

[FreeBSD] configure: suggest variable to set if FreeBSD sys not
found
submitted by @emaste

Fix broken LSOF_CFLAGS_OVERRIDE.
Provided by Fabrice Fontaine in #172.

[linux] Remove sysvlegacy function.
Provided by Fabrice Fontaine in #195.

[linux] use close_range instead of calling close repeatedly
At the starting up, lsof closes its file descriptors greater
than 2 by calling close(2) repeatedly. As reported in #186,
it can take long time. Linux 5.9 introduced close_range(2).
The new system call can close multiple file descriptors faster.
@qianzhangyl reported the original issue (#186).

Add -Q option for adjusting exit status when failed to find a
search item (#129)
In the original code, lsof returned 1 when it failed to find a
search item.
With the new option, lsof returns 0 in the case.

Document -Q option in manpage/00QUICKSTART, and adjust -h
output by @dilinger (Andres Salomon) in #129.

Improve readability of complex adverbial clause by adding a
comma.
Provided by Danny Fowler in #156.

The lsof-org team at GitHub
April 28, 2022

Found in path(s):
* /opt/cola/permits/2134360459_1722972872.2498574/0/lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/00DIST
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```
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```

```
*/
```

Found in path(s):
* /opt/cola/permits/2134360459_1722972872.2498574/0/lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/tests/LsofTest.h
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Found in path(s):
* /opt/cola/permits/2134360459_1722972872.2498574/0/lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/proto.h
* /opt/cola/permits/2134360459_1722972872.2498574/0/lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/arg.c
* /opt/cola/permits/2134360459_1722972872.2498574/0/lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/node.c
* /opt/cola/permits/2134360459_1722972872.2498574/0/lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/lsof_fields.h
* /opt/cola/permits/2134360459_1722972872.2498574/0/lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/misc.c
* /opt/cola/permits/2134360459_1722972872.2498574/0/lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/lsof.h
* /opt/cola/permits/2134360459_1722972872.2498574/0/lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/proc.c
* /opt/cola/permits/2134360459_1722972872.2498574/0/lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/store.c
No license file was found, but licenses were detected in source scan.

```
#!/usr/bin/perl
#
# list_NULf.pl    -- sample Perl 5 script to list lsof NUL-terminated
#       full field output (i.e., -F0 output)
```

```
#
# This script has been tested under perl version 5.001e.
#
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# 3. Altered versions must be plainly marked as such, and must not be
#    misrepresented as being the original software.
#
# 4. This notice may not be removed or altered.

# Initialize variables.

$fhdr = 0;       # fd hdr. flag
$fdst = 0;       # fd state
$access = $devch = $devn = $fd = $inode = $lock = $name = ""; # | file descr.
$offset = $proto = $size = $state = $stream = $type = ""; # | variables
$pidst = 0;       # process state
$cmd = $login = $pgrp = $pid = $ppid = $uid = "";  # process var.

# Process the ``lsof -F'' output a line at a time, gathering
# the variables for a process together before printing them;
# then gathering the variables for each file descriptor
# together before printing them.

while (<>) {
   chop;
   @F = split('\0', $_, 999);
   if ($F[0] =~ /^p/) {

# A process set begins with a PID field whose ID character is `p'.
```

```
 if ($pidst) { &list_proc }
 if ($fdst) { &list_fd; $fdst = 0; }
 foreach $i (0 ..
 ($#F - 1)) {

    PROC: {
  if ($F[$i] =~ /^c(.*)/) { $cmd = $1; last PROC }
  if ($F[$i] =~ /^g(.*)/) { $pgrp = $1; last PROC }
  if ($F[$i] =~ /^p(.*)/) { $pid = $1; last PROC }
  if ($F[$i] =~ /^u(.*)/) { $uid = $1; last PROC }
  if ($F[$i] =~ /^L(.*)/) { $login = $1; last PROC }
  if ($F[$i] =~ /^R(.*)/) { $ppid = $1; last PROC }
  print "ERROR: unrecognized process field: \"$F[$i]\"\n";
    }
 }
 $pidst = 1;
 next;
   }

# A file descriptor set begins with a file descriptor field whose ID
# character is `f'.

   if ($F[0] =~ /^f/) {
 if ($pidst) { &list_proc }
 if ($fdst) { &list_fd }
 foreach $i (0 .. ($#F - 1)) {

    FD: {
  if ($F[$i] =~ /^a(.*)/) { $access = $1; last FD; }
  if ($F[$i] =~ /^C(.*)/) { last FD; }
  if ($F[$i] =~ /^f(.*)/) { $fd = $1; last FD; }
  if ($F[$i] =~ /^F(.*)/) { last FD; }
  if ($F[$i] =~ /^d(.*)/) { $devch = $1; last FD; }
  if ($F[$i] =~ /^D(.*)/) { $devn = $1; last FD; }
  if ($F[$i] =~ /^G(.*)/) { last FD; }
  if ($F[$i] =~ /^i(.*)/) { $inode
 = $1; last FD; }
  if ($F[$i] =~ /^k(.*)/) { last FD; }
  if ($F[$i] =~ /^l(.*)/) { $lock = $1; last FD; }
  if ($F[$i] =~ /^N(.*)/) { last FD; }
  if ($F[$i] =~ /^o(.*)/) { $offset = $1; last FD; }
  if ($F[$i] =~ /^P(.*)/) { $proto = $1; last FD; }
  if ($F[$i] =~ /^s(.*)/) { $size = $1; last FD; }
  if ($F[$i] =~ /^S(.*)/) { $stream = $1; last FD; }
  if ($F[$i] =~ /^t(.*)/) { $type = $1; last FD; }
  if ($F[$i] =~ /^T(.*)/) {
      if ($state eq "") { $state = "(" . $1; }
```

```
      else { $state = $state . " " . $1; }
      last FD;
  }
  if ($F[$i] =~ /^n(.*)/) { $name = $1; last FD; }
  print "ERROR: unrecognized file set field: \"$F[$i]\"\n";
     }
 }
 $fdst = 1;
 next;
   }
   print "ERROR: unrecognized: \"$_\"\n";
}

# Flush any stored file or process output.

if ($fdst) { &list_fd }
if ($pidst) { &list_proc }
exit(0);


## list_fd -- list file descriptor information
#       Values are stored inelegantly in global variables.

sub list_fd {
   if ( ! $fhdr) {

   # Print header
 once.

 print "      FD   TYPE      DEVICE   SIZE/OFF      INODE  NAME\n";
 $fhdr = 1;
   }
   printf "    %4s%1.1s%1.1s %4.4s", $fd, $access, $lock, $type;
   $tmp = $devn; if ($devch ne "") { $tmp = $devch }
   printf "  %10.10s", $tmp;
   $tmp = $size; if ($offset ne "") { $tmp = $offset }
   printf " %10.10s", $tmp;
   $tmp = $inode; if ($proto ne "") { $tmp = $proto }
   printf " %10.10s", $tmp;
   $tmp = $stream; if ($name ne "") { $tmp = $name }
   print "  ", $tmp;
   if ($state ne "") { printf " %s)\n", $state; } else { print "\n"; }

# Clear variables.

   $access = $devch = $devn = $fd = $inode = $lock = "";
   $name = $offset = $proto = $size = $state = $stream = $type = "";
}
```

```
# list_proc -- list process information
#       Values are stored inelegantly in global variables.

sub list_proc {
   print "COMMAND       PID    PGRP    PPID  USER\n";
   $tmp = $uid; if ($login ne "") {$tmp = $login }
   printf "%-9.9s  %6d  %6d  %6d  %s\n", $cmd, $pid, $pgrp,
 $ppid, $tmp;

# Clear variables.

   $cmd = $login = $pgrp = $pid = $uid = "";
   $fhdr = $pidst = 0;
}
```

Found in path(s):
* /opt/cola/permits/2134360459_1722972872.2498574/0/lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/scripts/list_NULf.pl
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* /opt/cola/permits/2134360459_1722972872.2498574/0/lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/lib/ptti.c
* /opt/cola/permits/2134360459_1722972872.2498574/0/lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/lib/rnam.c
* /opt/cola/permits/2134360459_1722972872.2498574/0/lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/dialects/linux/dmnt.c
* /opt/cola/permits/2134360459_1722972872.2498574/0/lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/lib/rnmh.c
* /opt/cola/permits/2134360459_1722972872.2498574/0/lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/lib/rdev.c
* /opt/cola/permits/2134360459_1722972872.2498574/0/lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/dialects/linux/dfile.c
* /opt/cola/permits/2134360459_1722972872.2498574/0/lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/lib/dvch.c
* /opt/cola/permits/2134360459_1722972872.2498574/0/lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/dialects/linux/dnode.c
* /opt/cola/permits/2134360459_1722972872.2498574/0/lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/lib/cvfs.c
* /opt/cola/permits/2134360459_1722972872.2498574/0/lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/lib/fino.c
* /opt/cola/permits/2134360459_1722972872.2498574/0/lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/dialects/linux/dstore.c
* /opt/cola/permits/2134360459_1722972872.2498574/0/lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/lib/pdvn.c
* /opt/cola/permits/2134360459_1722972872.2498574/0/lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/dialects/linux/dlsof.h
* /opt/cola/permits/2134360459_1722972872.2498574/0/lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/lib/rnch.c
* /opt/cola/permits/2134360459_1722972872.2498574/0/lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/lib/lkud.c
* /opt/cola/permits/2134360459_1722972872.2498574/0/lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/lib/prfp.c
* /opt/cola/permits/2134360459_1722972872.2498574/0/lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/lib/isfn.c
* /opt/cola/permits/2134360459_1722972872.2498574/0/lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/dialects/linux/dsock.c
* /opt/cola/permits/2134360459_1722972872.2498574/0/lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/dialects/linux/machine.h
* /opt/cola/permits/2134360459_1722972872.2498574/0/lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/dialects/linux/dproto.h
* /opt/cola/permits/2134360459_1722972872.2498574/0/lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/dialects/linux/dproc.c
* /opt/cola/permits/2134360459_1722972872.2498574/0/lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/lib/rmnt.c
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```

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* /opt/cola/permits/2134360459_1722972872.2498574/0/lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/lib/ckkv.c
* /opt/cola/permits/2134360459_1722972872.2498574/0/lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/usage.c
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```
#!/usr/bin/perl
#
# list_fields.pl   -- sample Perl script to list lsof full field output
#        (i.e., -F output without -0)
#
# This script has been tested under perl versions 4.036 and 5.001e.
#
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#    misrepresented as being the original software.
```

```
#
# 4. This notice may not be removed or altered.

# Initialize variables.

$fhdr = 0;       # fd hdr. flag
$fdst = 0;       # fd state
$access = $devch = $devn = $fd = $inode = $lock = $name = ""; # | file descr.
$offset = $proto = $size = $state = $stream = $type = ""; # | variables
$pidst = 0;       # process state
$cmd = $login = $pgrp = $pid = $ppid = $uid = "";  # process var.

# Process the ``lsof -F'' output a line at a time, gathering
# the variables for a process together before printing them;
# then gathering the variables for each file descriptor
# together before printing them.

while (<>) {
   chop;
   if (/^p(.*)/) {

# A process set begins with a PID field whose ID character is `p'.

 $tpid = $1;
 if ($pidst) { &list_proc }
 $pidst = 1;
 $pid = $tpid;
 if ($fdst) { &list_fd; $fdst = 0; }
 next;
    }

# Save process-related values.

   if (/^g(.*)/) { $pgrp = $1; next; }
   if (/^c(.*)/) { $cmd = $1; next; }
   if (/^u(.*)/) { $uid = $1; next; }
   if (/^L(.*)/) { $login = $1; next; }
   if (/^R(.*)/) { $ppid = $1; next; }

# A file descriptor set begins with a file descriptor field whose ID
# character is `f'.

   if (/^f(.*)/) {
 $tfd = $1;
 if ($pidst) { &list_proc }
 if ($fdst) { &list_fd }
 $fd = $tfd;
 $fdst = 1;
```

```
 next;
   }

# Save file set information.

   if (/^a(.*)/) { $access = $1; next; }
   if (/^C(.*)/) { next; }
   if (/^d(.*)/) { $devch = $1; next; }
   if (/^D(.*)/) { $devn = $1; next; }
   if (/^F(.*)/) { next; }
   if (/^G(.*)/) { next; }
   if (/^i(.*)/) { $inode = $1; next; }
   if (/^k(.*)/) { next; }
   if (/^l(.*)/) { $lock = $1; next; }
   if (/^N(.*)/) { next; }
   if (/^o(.*)/) { $offset = $1; next; }
   if (/^P(.*)/) { $proto = $1; next; }
   if (/^s(.*)/) { $size = $1; next; }
   if (/^S(.*)/) { $stream = $1; next; }
   if (/^t(.*)/)
 { $type = $1; next; }
   if (/^T(.*)/) {
 if ($state eq "") { $state = "(" . $1; }
 else { $state = $state . " " . $1; }
 next;
   }
   if (/^n(.*)/) { $name = $1; next; }
   print "ERROR: unrecognized: \"$_\"\n";
}

# Flush any stored file or process output.

if ($fdst) { &list_fd }
if ($pidst) { &list_proc }
exit(0);


## list_fd -- list file descriptor information
#       Values are stored inelegantly in global variables.

sub list_fd {
   if ( ! $fhdr) {

   # Print header once.

 print "      FD   TYPE      DEVICE   SIZE/OFF      INODE  NAME\n";
 $fhdr = 1;
   }
```

```
   printf "    %4s%1.1s%1.1s %4.4s", $fd, $access, $lock, $type;
   $tmp = $devn; if ($devch ne "") { $tmp = $devch }
   printf "  %10.10s", $tmp;
   $tmp = $size; if ($offset ne "") { $tmp = $offset }
   printf " %10.10s", $tmp;
   $tmp = $inode; if ($proto ne "") { $tmp = $proto }
   printf " %10.10s", $tmp;
   $tmp = $stream; if ($name ne "") { $tmp = $name }
   print "  ", $tmp;
   if ($state
 ne "") { printf " %s)\n", $state; } else { print "\n"; }

# Clear variables.

   $access = $devch = $devn = $fd = $inode = $lock = $name = "";
   $offset = $proto = $size = $state = $stream = $type = "";
}


# list_proc -- list process information
#       Values are stored inelegantly in global variables.

sub list_proc {
   print "COMMAND       PID    PGRP    PPID  USER\n";
   $tmp = $uid; if ($login ne "") {$tmp = $login }
   printf "%-9.9s  %6d  %6d  %6d  %s\n", $cmd, $pid, $pgrp, $ppid, $tmp;

# Clear variables.

   $cmd = $login = $pgrp = $pid = $uid = "";
   $fhdr = $pidst = 0;
}
```

Found in path(s):
* /opt/cola/permits/2134360459_1722972872.2498574/0/lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/scripts/list_fields.pl
No license file was found, but licenses were detected in source scan.

```
#!/usr/bin/perl
# sort_res.pl - Script to group & sort lsof output by resource
#
# Copyright (c) 2004, 2005 - Fabian Frederick <fabian.frederick@gmx.fr>
#
# This program/include file is free software; you can redistribute it and/or
# modify it under the terms of the GNU General Public License as published
# by the Free Software Foundation; either version 2 of the License, or
# (at your option) any later version.
#
```

```
# This program/include file is distributed in the hope that it will be
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# of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
# GNU General Public License for more details.
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# distribution in the file COPYING); if not, write to the Free Software
# Foundation,Inc., 59 Temple Place, Suite 330, Boston,
 MA  02111-1307  USA
#
# Note :
# -This script uses lsof released by Victor A. Abell
# -lsof path recovery comes from standard perl scripts in there.
#
# Usage :
# perl sort_res.pl -> display used resources + size
# or perl sort_res.pl <program name>
#
# 12/2005 (FabF)
# -size reset in loop (script was broken in 4.76)
# -isexec looking in .. (like other scripts)
# -display for one or all processes
# -removing unuseful line number arg.
# -display global size

my @args = @_;

# Set path to lsof.
if (($LSOF = &isexec("../lsof")) eq "") {    # Some distros use lsof
        # out of $PATH
   if (($LSOF = &isexec("lsof")) eq "") {     # Then try . and $PATH
 if (($LSOF = &isexec("../lsof")) eq "") {    # Then try ..
     print "can't execute $LSOF\n"; exit 1
 }
   }
}

if ($ARGV[0] ne ""){
   $cmd="$LSOF -nPl -Fcns -c".$ARGV[0]."|";
}else{
   $cmd="$LSOF -nPl -Fcns|";
}

#Parse lsof output to gather command, resource name, pid and size
#Some extradata stand to keep script genericity
$i=0;
if
```

```
 (open(FILE, $cmd)){
   while (defined ($line=<FILE>)){
 $cline=$line;
 $cline =~ s"^(.)"";
 $cline =~ s/^\s+|\s+$//g;
 if($line=~m/^p/){
     $pid=$cline;
 }else{
     if($line=~/^s/){
  $size = $cline;
     }else{
  if($line=~/^c/){
      $command = $cline;
  }else{
      if($line=~/^n/){
   $name = $cline;
   $data{$i} = { command => $command, name => $name,
          pid => $pid , size => $size};
   $size=0;
   $i = $i+1;
      }
  }
     }
 }
   }
}

#Resource name sorting
sub byresname { $data{$a}{name} cmp $data{$b}{name}}
@ks=sort byresname (keys %data);

#Resource grouping
$i=0;
$cname="a";
foreach $k (@ks){
   if ($data{$k}{name} ne $cname){
 $dgroup{$i} = { name => $data{$k}{name}, size => $data{$k}{size}};
 $cname = $data{$k}{name};
 $i++;
   }
}

#Size sort on resource hash
sub bysize { $dgroup{$a}{size} <=> $dgroup{$b}{size} }
@ks=sort bysize (keys %dgroup);
$gsize=0;
printf("  -- KB --  -- Resource --\n", );
foreach $k (@ks){
```

```
 printf("%10d  %s\n", $dgroup{$k}{size}/1024,
 $dgroup{$k}{name});
 $gsize+=$dgroup{$k}{size};
}

printf("Total KB : %10d\n", $gsize/1024);
## isexec($path) -- is $path executable
#
# $path   = absolute or relative path to file to test for executabiity.
#     Paths that begin with neither '/' nor '.' that arent't found as
#     simple references are also tested with the path prefixes of the
#     PATH environment variable.

sub
isexec {
   my ($path) = @_;
   my ($i, @P, $PATH);

   $path =~ s/^\s+|\s+$//g;
   if ($path eq "") { return(""); }
   if (($path =~ m#^[\/\.]#)) {
 if (-x $path) { return($path); }
 return("");
   }
   $PATH = $ENV{PATH};
   @P = split(":", $PATH);
   for ($i = 0; $i <= $#P; $i++) {
 if (-x "$P[$i]/$path") { return("$P[$i]/$path"); }
   }
   return("");
}
```

Found in path(s):
* /opt/cola/permits/2134360459_1722972872.2498574/0/lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/scripts/sort_res.pl
No license file was found, but licenses were detected in source scan.

```
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```

```
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(Version 8.6, last updated 6/24/1998)

* End endmail LICENSE file.
*/

Found in path(s):
* /opt/cola/permits/2134360459_1722972872.2498574/0/lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/lib/snpf.c
No license file was found, but licenses were detected in source scan.

```
#!/usr/bin/perl
#
# shared.pl    -- sample Perl 5 script to list processes that share
#    file descriptors or files, using `lsof +ffn -F..."
#    output
```

```
#
# Usage: shared [fd|file]
#
# where: fd to list file descriptors (default)
#
#  file to list files
#
# This script has been tested under perl version 5.001e.


# IMPORTANT DEFINITIONS
# =====================
#
# 1.  Set the interpreter line of this script to the local path of the
#     Perl5 executable.


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#
# Written by Victor A. Abell <abe@purdue.edu>
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# Initialize variables.

$Access = $Devch = $Devn = $Fd = $Fsa = $Inode = $Lock = # file
   $Na = $Name = "";     # | descriptor
$Cmd = $Login = $Pgrp = $Pid = $Ppid = $Uid = "";  # process var.
$Fdst = 0;       # fd state
```

```
$Hdr = 0;       # header state
$Offset = $Proto = $Size = $State = $Stream = $Type = ""; # | variables
$Pidst = 0;       # process state
$Pn = "shared";

# Set path to lsof.

if (($LSOF = &isexec("../lsof")) eq "") { # Try .. first
   if (($LSOF = &isexec("lsof")) eq "")
 { # Then try . and $PATH
 print "can't execute $LSOF\n"; exit 1
   }
}

# Define print field constants.

$CmdTtl = "CMD";
$CmdW = length($CmdTtl);
$DevTtl = "DEVICE";
$DevW = length($DevTtl);
$FdTtl = "FD";
$FdW = length($FdTtl);
$InoTtl = "NODE";
$InoW = length($InoTtl);
$KeyTtl = "FILEADDR";
$KeyW = length($KeyTtl);
$PidTtl = "PID";
$PidW = length($PidTtl);
$PpidTtl = "PPID";
$PpidW = length(PpidTtl);

# Process one (optional) argument.

if ($#ARGV >= 0) {
   $err = 0;
   if ($#ARGV > 1) { $err = 1; }
   elsif ($ARGV[0] eq "fd") {
 $KeyTtl = "FILEADDR";
 $Shfd = 1;
 $Shfile = 0;
   } elsif ($ARGV[0] eq "file") {
 $KeyTtl = "NODEID";
 $Shfd = 0;
 $Shfile = 1;
   } else { $err = 1; }
   if ($err) { die "$Pn: usage [fd|file]\n"; }
   shift;
} else { $Shfd = 1; $Shfile = 0; }
```

```
$KeyW = length($KeyTtl);

# Open a pipe from lsof.

if (!open(LSOF_PIPE, "$LSOF -R +ffn -F0pcRDfFinN |")) {
   die "$Pn: can't open pipe to: $LSOF\n";
}

# Process the lsof output a line at a time, gathering
 the variables for
# processes and files.

while (<LSOF_PIPE>) {
   chop;
   @F = split('\0', $_, 999);
   if ($F[0] =~ /^p/) {

# A process set begins with a PID field whose ID character is `p'.

 if ($Fdst) { &End_fd }
 if ($Pidst) { &End_proc }
 foreach $i (0 .. ($#F - 1)) {

     PROC: {
  if ($F[$i] =~ /^c(.*)/) { $Cmd = $1; last PROC }
  if ($F[$i] =~ /^g(.*)/) { $Pgrp = $1; last PROC }
  if ($F[$i] =~ /^p(.*)/) { $Pid = $1; last PROC }
  if ($F[$i] =~ /^u(.*)/) { $Uid = $1; last PROC }
  if ($F[$i] =~ /^L(.*)/) { $Login = $1; last PROC }
  if ($F[$i] =~ /^R(.*)/) { $Ppid = $1; last PROC }
  print "ERROR: unrecognized process field: \"$F[$i]\"\n";
     }
 }
 $Pidst = 1;
 next;
   }

# A file descriptor set begins with a file descriptor field whose ID
# character is `f'.

   if ($F[0] =~ /^f/) {
 if ($Fdst) { &End_fd }
 foreach $i (0 .. ($#F - 1)) {

     FD: {
  if ($F[$i] =~ /^a(.*)/) { $Access = $1; last FD; }
  if ($F[$i] =~ /^f(.*)/) { $Fd = $1; last FD; }
  if ($F[$i]
```

```
=~ /^F(.*)/) { $Fsa = $1; last FD; }
 if ($F[$i] =~ /^l(.*)/) { $Lock = $1; last FD; }
 if ($F[$i] =~ /^t(.*)/) { $Type = $1; last FD; }
 if ($F[$i] =~ /^d(.*)/) { $Devch = $1; last FD; }
 if ($F[$i] =~ /^D(.*)/) { $Devn = $1; last FD; }
 if ($F[$i] =~ /^s(.*)/) { $Size = $1; last FD; }
 if ($F[$i] =~ /^o(.*)/) { $Offset = $1; last FD; }
 if ($F[$i] =~ /^i(.*)/) { $Inode = $1; last FD; }
 if ($F[$i] =~ /^P(.*)/) { $Proto = $1; last FD; }
 if ($F[$i] =~ /^S(.*)/) { $Stream = $1; last FD; }
 if ($F[$i] =~ /^T(.*)/) {
     if ($State eq "") { $State = "(" . $1; }
     else { $State = $State . " " . $1; }
     last FD;
 }
 if ($F[$i] =~ /^n(.*)/) { $Name = $1; last FD; }
 if ($F[$i] =~ /^N(.*)/) { $Na = $1; last FD; }
 print "ERROR: unrecognized file set field: \"$F[$i]\"\n";
    }
 }
 $Fdst = 1;
 next;
   }
   print "ERROR: unrecognized: \"$_\"\n";
}
close(LSOF_PIPE);
if ($Fdst) { &End_fd }
if ($Pidst) { &End_proc }

# List matching files or file descriptors.

for ($pass
 = 0; $pass < 2; $pass++) {
   foreach $key (sort keys(%Fds)) {
 @Praw = split(' ', $Fds{$key}, 999);
 if ($#Praw < 1) { next; }
 if ($Shfd) { @P = sort Sort_by_FD_and_PID @Praw; }
 else { @P = sort Sort_by_PID_and_FD @Praw; }

   # Accumulate and print blocks of (key, PID, FD) triplets.

 for ($i = 0; $i < $#P; $i++) {
    if ($Shfile) {
  for ($n = 0; $n <= $#P; $n++) {
     ($pid, $fd) = split(",", $P[$n], 999);
     $PrtPid[$n] = $pid;
     $PrtFd[$n] = $fd;
  }
```

```
  $i = $n;
     } else {
  ($pid, $fd) = split(",", $P[$i], 999);
  $PrtFd[0] = $fd;
  $PrtPid[0] = $pid;
  for ($n = 1; $i < $#P; $i++, $n++) {
      ($nxtpid, $nxtfd) = split(",", $P[$i + 1], 999);
      if ($fd ne $nxtfd) { last; }
      $PrtFd[$n] = $nxtfd;
      $PrtPid[$n] = $nxtpid;
  }
     }
     if ($n > 1) { &Print_block($key, $n, $pass); }
 }
   }
}
exit(0);


## End_fd() -- process end of file descriptor

sub End_fd {

   local ($key);

   if ($Fdst && $Pidst && $Pid ne "") {
 if ($Cmd ne "") { $Cmds{$Pid}
 = $Cmd; }
 if ($Ppid ne "") { $Ppids{$Pid} = $Ppid; }
 $key = $Shfd ? $Fsa : $Na;
 if ($key ne "") {
     if (!defined($Fds{$key})) { $Fds{$key} = "$Pid,$Fd"; }
     else { $Fds{$key} .= " $Pid,$Fd"; }
     if ($Name ne "" && !defined($Name{$key})) { $Name{$key} = $Name }
     if ($Inode ne "" && !defined($Inodes{$key})) {
  $Inodes{$key} = $Inode;
     }
     if ($Devn ne "" && !defined($Devns{$key})) {
  $Devns{$key} = $Devn;
     }
 }
   }

# Clear variables.

   $Access = $Devch = $Devn = $Fd = $Fsa = $Inode = $Lock = "";
   $Na = $Name = $Offset = $Proto = $Size = $State = $Stream = $Type = "";
   $Fdst = 0;
```

```
}


## End_proc() -- process end of process

sub End_proc {

# Clear variables.

   $Cmd = $Login = $Pgrp = $Pid = $Ppid = $Uid = "";
   $Fdst = $Pidst = 0;
}


## Print_block() -- print a block of entries
#
# entry:
#
# @_[0] = block's key
# @_[1] = number of entries in the block
# @_[2] = print pass status (1 == print)

sub Print_block {

   my ($key, $n, $pass)
 = @_;

   local ($fd, $i, $pid, $t, $tW);

   if ($pass) {
 if (!$Hdr) {
     printf "%${KeyW}.${KeyW}s", $KeyTtl;
     printf " %${PidW}.${PidW}s", $PidTtl;
     printf " %${PpidW}.${PpidW}s", $PpidTtl;
     printf " %-${CmdW}.${CmdW}s", $CmdTtl;
     printf " %${FdW}.${FdW}s", $FdTtl;
     printf " %${DevW}.${DevW}s", $DevTtl;
     printf " %${InoW}.${InoW}s", $InoTtl;
     printf " NAME\n";
     $Hdr = 1;
 } else { print "\n"; }
   }

# Loop through block.  During a non-print pass, caclulate maximum field widths.

   for ($i = 0; $i < $n; $i++) {
 $fd = $PrtFd[$i];
 $pid = $PrtPid[$i];
```

```
  # Process key.

if (!$pass) {
    $tW = length(sprintf("%s", $key));
    if ($tW > $KeyW) { $KeyW = $tW; }
} else { printf "%s", $key; }

  # Process PID.

if (!$pass) {
    $tW = length(sprintf(" %s", $pid));
    if ($tW > $PidW) { $PidW = $tW; }
} else { printf " %${PidW}.${PidW}s", $pid; }

  # Process parent PID.

$t = defined($Ppids{$pid}) ? $Ppids{$pid} : "";
if (!$pass)
{
    $tW = length(sprintf(" %s", $t));
    if ($tW > $PpidW) { $PpidW = $tW; }
} else { printf " %${PpidW}.${PpidW}s", $t; }

  # Process command name.

$t = defined($Cmds{$pid}) ? $Cmds{$pid} : "";
if (!$pass) {
    $tW = length(sprintf(" %s", $t));
    if ($tW > $CmdW) { $CmdW = $tW; }
} else { printf " %-${CmdW}.${CmdW}s", $t; }

  # Process file descriptor.

if (!$pass) {
    $tW = length(sprintf(" %s", $fd));
    if ($tW > $FdW) { $FdW = $tW; }
} else { printf " %${FdW}.${FdW}s", $fd; }

  # Process device number.

$t = defined($Devns{$key}) ? $Devns{$key} : "";
if (!$pass) {
    $tW = length(sprintf(" %s", $t));
    if ($tW > $DevW) { $DevW = $tW; }
} else { printf " %${DevW}.${DevW}s", $t; }

  # Process node number.
```

```
 $t = defined($Inodes{$key}) ? $Inodes{$key} : $t;
 if (!$pass) {
     $tW = length(sprintf (" %s", $t));
     if ($tW > $InoW) { $InoW = $tW; }
 } else { printf " %${InoW}.${InoW}s", $t; }

   # Print name and line terminater, if this
 is a print pass.

 if ($pass) {
     if (defined($Name{$key})) { print " $Name{$key}\n"; }
     else { print "\n"; }
 }
   }
}


## Sort_by_FD_and_PID() -- sort (PID,FD) doublets by FD first, then PID

sub Sort_by_FD_and_PID {

   local ($pida, $pidb, $fda, $fdj, $rv);

   ($pida, $fda) = split(",", $a);
   ($pidb, $fdb) = split(",", $b);
   if ($fda < $fdb) { return(-1); }
   if ($fda > $fdb) { return(1); }
   if ($pida < $pidb) { return(-1); }
   if ($pida > $pidb) { return(1); }
   return(0);
}


## Sort_by_PID_and_FD() -- sort (PID,FD) doublets by PID first, then FD

sub Sort_by_PID_and_FD {

   local ($pida, $pidb, $fda, $fdj, $rv);

   ($pida, $fda) = split(",", $a);
   ($pidb, $fdb) = split(",", $b);
   if ($pida < $pidb) { return(-1); }
   if ($pida > $pidb) { return(1); }
   if ($fda < $fdb) { return(-1); }
   return(0);
   if ($fda > $fdb) { return(1); }
}
```

```
## isexec($path) -- is $path executable
#
# $path   = absolute or relative path to file to test for
 executabiity.
#     Paths that begin with neither '/' nor '.' that arent't found as
#     simple references are also tested with the path prefixes of the
#     PATH environment variable.

sub
isexec {
   my ($path) = @_;
   my ($i, @P, $PATH);

   $path =~ s/^\s+|\s+$//g;
   if ($path eq "") { return(""); }
   if (($path =~ m#^[\/\.]#)) {
 if (-x $path) { return($path); }
 return("");
   }
   $PATH = $ENV{PATH};
   @P = split(":", $PATH);
   for ($i = 0; $i <= $#P; $i++) {
 if (-x "$P[$i]/$path") { return("$P[$i]/$path"); }
   }
   return("");
}
```

Found in path(s):
* /opt/cola/permits/2134360459_1722972872.2498574/0/lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/scripts/shared.pl
No license file was found, but licenses were detected in source scan.

Making and Installing lsof 4

```
*********************************************************************
| The latest release of lsof is always available via anonymous ftp |
| from lsof.itap.purdue.edu.  Look in pub/tools/unix/lsof.         |
*********************************************************************
```

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==========
Pre-built Lsof Binaries
==========

Avoid using pre-built lsof binaries if you can; build your own instead.

I do not support lsof binaries built and packaged by third parties nor lsof binaries built from anything but the latest lsof revision. (See the Bug Reports section for more information on the details of lsof support.)

One important reasone for those support restrictions is that when lsof is built its Configure script tunes lsof to the features available on the building system, often embodied in supporting header files and libraries. If the building system doesn't have support for a particular feature, lsof won't be built to support the feature on any system.

The Veritas VxFS file system is a good example of a feature that requires build-time support.

UNIX dialect version differences -- Solaris 8 versus 9, AIX 4.3.3 vesus 5.2, etc. -- can also render a pre-built lsof binary useless on a different version. So can kernel bit size.

There are so many potential pitfalls to using an lsof binary improperly that I strongly recommend lsof be used only where it is built.

==========
Making Lsof
==========

```
$ cd <lsof source directory>
$ ./Configure <your dialect's abbreviation>
$ make
```

(Consult the 00FAQ and 00XCONFIG files of the lsof distribution for information about using make command invocations and environment variables to override lsof default Makefile strings.)

This lsof distribution can be used with many UNIX dialects. However, it must be configured specifically for each dialect. Configuration is done in three ways: 1) by changing definitions in the machine.h header file of the UNIX dialect of interest; 2) by defining environment variable values prior to calling Configure (see the 00XCONFIG file, the Environment Variabls and Environment Variables Affecting the Configure Script sections of this file); and 3) by running the Configure shell script found in the top level of the distribution directory.

You may not need to change any machine.h definitions, but you might want to look at them anyway. Pay particular attention to the definitions that are discussed in the Security section of this file. Please read that section.

The Configure script calls three other scripts in the lsof distribution: AFSConfig; Inventory; and Customize. The AFSConfig script is called for selected dialects (AIX, HP-UX, NEXTSTEP, and Solaris) to locate AFS header files and determine the AFS version. See The AFSConfig Script section of this file for more information.

The Inventory script checks the completeness of the lsof distribution. Configure calls Inventory after it has accepted the dialect abbreviation, but before it configures the top-level directory for the dialect. See The Inventory Script section of this file for more information.

Configure calls the Customize script after it has configured the top-level lsof directory for the declared dialect. Customize helps you modify some of the important compile-time definitions of machine.h. See the The Customize Script section.

You should also think about where you will install lsof and its man page, and whom you will let execute lsof. Please read the Installing Lsof section of this file for information on installation considerations.

Once you have inspected the machine.h file for the dialect for which you want to build lsof, and made any changes you need, run the Configure script, supplying it with the abbreviation for the dialect. (See the following table.) Configure selects the appropriate options for the dialect and runs the Mksrc shell script in the dialect sub-directory to construct the appropriate source files in the top-level distribution directory.

Configure may also run the MkKernOpts script in the dialect

sub-directory to propagate kernel build options to the dialect
Makefile. This is done for only a few dialects -- e.g., DC/OSx,
and Reliant UNIX.

Configure creates a dialect-specific Makefile. You may want to
inspect or edit this Makefile to make it conform to local conventions.
If you want the Makefile to install lsof and its man page, you will
have to create an appropriate install rule.

Lsof may be configured using UNIX dialect abbreviations from the
following table. Alternative abbreviations are indicated by a
separating `|'. For example, for
SCO OpenServer you can use either
the ``osr'' or the ``sco'' abbreviation:

```
$ Configure osr
  or
$ Configure sco
```

```
Abbreviations  UNIX Dialect
-------------  ------------

  aix   IBM AIX 5.[23] and 5.3-ML1 using IBM's C Compiler
  aixgcc  IBM AIX 5.[12] and 5.3-ML1 using gcc
  darwin  Apple Darwin 7.x and 8.x for Power Macintosh systems
  decosf  DEC OSF/1, Digital UNIX, Tru64 UNIX 4.0 and 5.1
  digital_unix Digital UNIX, DEC OSF/1, Tru64 UNIX 4.0 and 5.1
  du   Digital UNIX, DEC OSF/1, Tru64 UNIX 4.0 and 5.1
  freebsd  FreeBSD 4.x, 4.1x, 5.x and [67].x
  hpux  HP-UX 11.00, 11.11 and 11.23, using HP's C
  Compiler, both /dev/kmem-based and PSTAT-based
  hpuxgcc  HP-UX 11.00, 11.11 and 11.23, using gcc, both
  /dev/kmem-based and PSTAT-based
  linux  Linux 2.1.72 and above for x86-based systems
  netbsd  NetBSD 1.[456], 2.x and 3.x
  next  NEXTSTEP 3.[13]
  nextstep  NEXTSTEP 3.[13]
  ns   NEXTSTEP 3.[13]
  nxt   NEXTSTEP 3.[13]
  openbsd  OpenBSD
 2.[89] and 3.[0-9]
  openstep  OPENSTEP 4.x
  os   OPENSTEP 4.x
  osr   SCO OpenServer Release 5.0.6, using the C compiler
  from the SCO developer's kit
  osrgcc  SCO OpenServer Release 5.0.6, using gcc
  osr6  SCO Openserver 6.0.0, using the SCO C compiler
  sco   SCO OpenServer Release 5.0.6, using the C compiler
```

from the SCO developer's kit
scogcc SCO OpenServer Release 5.0.6, using gcc
solaris Solaris 2.x, 7, 8, 9 and 10 using gcc
solariscc Solaris 2.x, 7, 8, 9 and 10 using Sun's cc
tru64 Tru64 UNIX, DEC OSF/1, Digital UNIX 4.0 and 5.1
unixware SCO|Caldera UnixWare 7.1.4
uw SCO|Caldera UnixWare 7.1.4

If you have an earlier version of a dialect not named in the above list, lsof may still work on your system. I have no way of testing that myself. Try configuring for the named dialect -- e.g., if you're using Solaris 2.1, try configuring for Solaris 2.5.1.

After you have configured lsof for your UNIX dialect and have selected options
via the Customize script (See the The Customize Script section.) , use the make command to build lsof -- e.g.,

```
$ make
```

Other Configure Script Options

There are three other useful options to the Configure script besides the dialect abbreviation:

-clean may be specified to remove all traces of a dialect configuration, including the Makefile, symbolic links, and library files.

-h
-help may be specified to obtain a list of Configure options, including dialect abbreviations.

-n may be specified to stop the Configure script from calling the Customize and Inventory scripts.

Caution: -n also suppresses the AFSConfig step.

Environment Variables

Lsof configuration, building, and execution may be affected by

environment variable settings. See the Definitions That Affect
Compilation section in the 00PORTING file, the General Environment
Variables section in the 00XCONFIG
file, the Dialect-Specific
Environment Variables section in the 00XCONFIG file, and the
Environment Variables Affecting the Configure Script section of
this file for more information.

Note in the General Environment Variables section of the 00XCONFIG
file that there are five environment variables that can be used to
pre-define values in lsof's -v output: LSOF_BLDCMT, LSOF_HOST,
LSOF_LOGNAME, LSOF_SYSINFO, and LSOF_USER.

Security
========

If the symbol HASSECURITY is defined, a security mode is enabled,
and lsof will allow only the root user to list all open files.
Non-root users may list only open files whose processes have the
same user ID as the real user ID of the lsof process (the one that
its user logged on with).

However, if HASNOSOCKSECURITY is also defined, anyone may list
anyone else's open socket files, provided their listing is enabled
with the "-i" option.

Lsof is distributed with the security mode disabled -- HASSECURITY
is not defined. (When HASSECURITY is not
defined, the definition
of HASNOSOCKSECURITY has no meaning.) You can enable the security
mode by defining HASSECURITY in the Makefile or in the machine.h
header file for the specific dialect you're using -- e.g.
dialects/aix/machine.h.

The Customize script, run by Configure when it has finished its
work, gives you the opportunity to define HASSECURITY and
HASNOSOCKSECURITY. (See the The Customize Script section.)

The lsof -h output indicates the state HASSECURITY and HASNOSOCKSECURITY
had when lsof was built, reporting:

"Only root can list all files;"
if HASSECURITY was defined and HASNOSOCKSECURITY wasn't
defined;

"Only root can list all files, but anyone can list socket files."
if HASSECURITY and HASNOSOCKSECURITY were both defined;

"Anyone can list all files;"
if HASSECURITY wasn't defined. (The definition of
HASNOSOCKSECURITY doesn't matter when HASSECURITY isn't
defined.)

You should carefully consider the implications of using the default
security mode.
When lsof is compiled in the absence of the
HASSECURITY definition, anyone who can execute lsof may be able to
see the presence of all open files. This may allow the lsof user
to observe open files -- e.g., log files used to track intrusions
-- whose presence you would rather not disclose.

As distributed, lsof writes a user-readable and user-writable device
cache file in the home directory of the real user ID executing
lsof. There are other options for constructing the device cache file
path, and they each have security implications.

The 00DCACHE file in the lsof distribution discusses device cache
file path construction in great detail. It tells how to disable
the various device cache file path options, or how to disable the
entire device cache file feature by removing the HASDCACHE definition
from the dialect's machine.h file. There is also information on
the device cache file feature in the 00FAQ file. (The 00DCACHE
and 00FAQ files are part of the lsof distribution package.)

The
Customize script, run by Configure after it has finished its
work, gives you the opportunity to change the compile-time options
related to the device cache file. (See The Customize Script
section.)

Since lsof may need setgid or setuid-root permission (See the Setgid
Lsof Dialects and Setuid-root Lsof Dialects sections.), its security
should always be viewed with skepticism. Lest the setgid and
setuid-root permissions allow lsof to read kernel name list or
memory files, declared with the -k and -m options, that the lsof
user can't normally access, lsof uses access(2) to establish its
real user's authority to read such files when it can't surrender
its power before opening them. This change was added at the
suggestion of Tim Ramsey.

Lsof surrenders setgid permission on most dialects when it has
gained access to the kernel's memory devices. There are exceptions
to this rule, and some lsof implementations need to run setuid-root.
(The Setgid Lsof Dialects and Setuid-root Lsof

Dialects sections
contains a list of lsof implementations and the permissions
recommended in the distribution's Makefiles.)

The surrendering of setgid permission is controlled by the WILLDROPGID
definition in the dialect machine.h header files.

In the end you must judge for yourself and your installation the
risks that lsof presents and restrict access to it according to
your circumstances and judgement.

Run-time Warnings

Lsof can issue warning messages when it runs -- e.g., about the
state of the device cache file, about an inability to access an
NFS file system, etc. Issuance of warnings are enabled by default
in the lsof distribution.

Issuance or warnings may be disabled by default by defining
WARNINGSTATE in the dialect's machine.h. The Customize script may
also be used to change the default warning message issuance state.
(See The Customize Script section.)

The ``-w'' option description of the ``-h'' option (help) output
will indicate the default warning
issuance state. Whatever the
state may be, it can be reversed with ``-w''.

Device Access Warnings

When lsof encounters a /dev (or /devices) directory, one of its
sub-directories, or one of their files that it cannot access with
opendir(3) or stat(2), it issues a warning message and continues.
Lsof will be more likely to issue such a warning when it has been
installed with setgid(<some group name>) permission; it won't have
trouble if it has been installed with setuid(root) permission or
is being run under the root login.

The lsof caller can inhibit or enable the warning with the -w
option, depending on the issuance state of run-time warnings. (See
the Run-time Warnings section.)

The warning messages do not appear when lsof obtains device
information from a device cache file that it has built and believes

to be current or when warning message issuance is disabled by
default. (See the "Caches -- Name and Device" section for more
information on the device
cache file.)

The lsof builder can inhibit the warning by disabling the definition
of WARNDEVACCESS in the dialect's machine.h or disable all warnings
by defining WARNINGSTATE. WARNDEVACCESS is defined by default for
most dialects. However, some dialects have some device directory
elements that are private -- e.g., HP-UX -- and it is more convenient
for the lsof user if warning messages about them are inhibited.

Output from lsof's -h option indicates the status of WARNDEVACCESS.
If it was defined when lsof was compiled, this message will appear:

```
/dev warnings = enabled
```

If WARNDEVACCESS was not defined when lsof was compiled, this
message will appear instead:

```
/dev warnings = disabled
```

The Customize script, run by Configure after it has finished its
work, gives you the opportunity to change the WARNDEVACCESS
definition. (See The Customize Script section.)

NFS Blocks

Lsof is susceptible to NFS blocks when it tries to lstat() mounted
file systems and when it does
further processing -- lstat() and
readlink() -- on its optional file and file system arguments.

Lsof tries to avoid being stopped completely by NFS blocks by doing
the lstat() and readlink() functions in a child process, which
returns the function response via a pipe. The lsof parent limits
the wait for data to arrive in the pipe with a SIGALRM, and, if
the alarm trips, terminates the child process with a SIGINT and a
SIGKILL.

This is as reliable and portable a method for breaking NFS deadlocks
as I have found, although it still fails under some combinations
of NFS version, UNIX dialect, and NFS file system mount options.
It generally succeeds when the "intr" or "soft" mount options are
used; it generally fails when the "hard" mount option is used.

When lsof cannot kill the child process, a second timeout causes it to stop waiting for the killed child to complete. While the second timeout allows lsof to complete, it may leave behind a hung child process. Unless warnings are inhibited by default or with the -w option, lsof reports the possible hung child.

NFS block handling was updated with suggestions made by Andreas Stolcke. Andreas suggested using the alternate device numbers that appear in the mount tables of some dialects when it is not possible to stat(2) the mount points.

The -b option was added to direct lsof to avoid the stat(2) and readlink(2) calls that might block on NFS mount points and always use the alternate device numbers. If warning message issuance is enabled and you don't want warning messages about what lsof is doing, use the -w option, too.

The -O option directs lsof to avoid doing the potentially blocking operations in child processes. Instead, when -O is specified, lsof does them directly. While this consumes far less system overhead, it can cause lsof to hang, so I advise you to use -O sparingly.

Caches -- Name and Device

Robert Ehrlich suggested that lsof obtain path name components for open files from the kernel's name cache. Where possible, lsof dialect implementations do that. The -C option inhibits kernel name cache examination.

Since AFS apparently does not use the kernel's name cache, where lsof supports AFS it is unable to identify AFS files with path name components.

Robert also suggested that lsof cache the information it obtains via stat(2) for nodes in /dev (or /devices) to reduce subsequent running time. Lsof does that, too.

In the default distribution the device cache file is stored in .lsof_hostname, mode 0600, in the home directory of the login of the user ID that executes lsof. The suffix, hostname, is the first component of the host's name returned by gethostname(2). If lsof is executed by a user ID whose home directory is NFS-mounted from several hosts, the user ID's home directory may collect several device cache files, one for each host from which it was executed.

Lsof senses accidental or malicious damage to the device cache file with extensive integrity
checks, including the use of a 16 bit CRC.
It also tries to sense changes in /dev (or /devices) that indicate the device cache file is out of date.

There are other options for forming the device cache file path. Methods the lsof builder can use to control and employ them are documented in the separate 00DCACHE file of the lsof distribution.

Raw Sockets

On many UNIX systems raw sockets use a separate network control block structure. Display of files for applications using raw sockets -- ping, using ICMP, for example -- need special support for displaying their information. This support is so dialect-specific and information to provide it so difficult to find that not all dialect revisions of lsof handle raw sockets completely.

Other Compile-time Definitions

The machine.h and dlsof.h header files for each dialect contains definitions that affect the compilation of lsof. Check the Definitions That Affect Compilation section of the
00PORTING file
of the lsof distribution for their descriptions. (Also see The Customize Script section.)

The AFSConfig Script

Lsof supports AFS on some combinations of UNIX dialect and AFS version. See the AFS section of this document for a list of supported combinations.

When configuring for dialects where AFS is supported, the Configure script calls the AFSConfig script to determine the location of AFS header files and the AFS version. Configure will not call AFSConfig, even for the selected dialects, unless the file /usr/vice/etc/ThisCell exists.

The AFS header file location is recorded in the AFSHeaders file;

version, AFSVersion. Once these values have been recorded, Configure can be told to skip the calling of AFSConfig by specifying its (Configure's) -n option.

The Inventory Script

The lsof distribution contains a script, called Inventory, that checks the distribution for completeness. It uses the file 00MANIFEST in the distribution
as a reference point.

After the Configure script has accepted the dialect abbreviation, it normally calls the Inventory script to make sure the distribution is complete.

After Inventory has run, it creates the file ".ck00MAN" in the top-level directory to record for itself the fact that the inventory has been check. Should Inventory be called again, it senses this file and asks the caller if another check is in order, or if the check should be skipped.

The -n option may be supplied to Configure to make it bypass the calling of the Inventory script. (The option also causes Configure to avoid calling the Customize script.)

The lsof power user may want to define (touch) the file ".neverInv". Configure avoids calling the Inventory script when ".neverInv" exists.

The Customize Script

Normally when the Configure script has finished its work, it calls another shell script in the lsof distribution called Customize. (You can tell Configure to bypass Customize
with its -n option.)

Customize leads you through the specification of these important compile-time definitions for the dialect's machine.h header file:

HASDCACHE device cache file control
HASENVDC device cache file environment variable name
HASPERSDC personal device cache file path format

HASPERSDCPATH name of environment variable that
provides an additional component
of the personal device cache file
path
HASSYSDC system-wide device cache file path
HASKERNIDCK the build-time to run-time kernel
identity check
HASSECURITY the security option
HASNOSOCKSECURITY the open socket listing option whe
HASSECURITY is defined
WARNDEVACCESS /dev (or /devices) warning message
control
WARNINGSTATE warning message issuance state

The Customize script accompanies its prompting for entry of new values for these definitions with brief descriptions of each of them. More information on these definitions may be found in this file or
in the 00DCACHE and 00FAQ files of the lsof distribution.

You don't need to run Customize after Configure. You can run it later or you can edit machine.h directly.

The -n option may be supplied to Configure to make it bypass the calling of the Customize script. (The option also causes Configure to avoid calling the Inventory script.)

The lsof power user may want to define (touch) the file ".neverCust". Configure avoids calling the Customize script when ".neverCust" exists.

Customize CAUTION: the Customize script works best when it is applied to a newly configured lsof source base -- i.e., the machine.h header file has not been previously modified by the Customize script. If you have previously configured lsof, and want to rerun the Customize script, I recommend you clean out the previous configuration and create a new one:

```
$ Configure -clean
$ Configure <dialect_abbreviation>
...
Customize in response to the Customize script prompts.
```

Cautions
========

Lsof is a tool that

is closely tied to the UNIX operating system
version. It uses header files that describe kernel structures and
reads kernel structures that typically change from OS version to
OS version, and even within a version as vendor patches are applied.

DON'T TRY TO USE AN LSOF BINARY, COMPILED FOR ONE UNIX OS VERSION,
ON ANOTHER. VENDOR PATCHES INFLUENCE THE VERSION IDENTITY.

On some UNIX dialects lsof versions may be even more restricted by
architecture type.

The bottom line is use lsof where you built it. If you intend to
use a common lsof binary on multiple systems, make sure all systems
run exactly the same OS version and have exactly the same patches.

Warranty
========

Lsof is provided as-is without any warranty of any kind, either
expressed or implied, including, but not limited to, the implied
warranties of merchantability and fitness for a particular purpose.
The entire risk as to the quality and performance of lsof is with
you. Should lsof prove defective, you assume the cost
of all
necessary servicing, repair, or correction.

License
=======

Lsof has no license. Its use and distribution are subject to these
terms and conditions, found in each lsof source file. (The copyright
year in or format of the notice may vary slightly.)

```
/*
 * Copyright 2002 Purdue Research Foundation, West Lafayette,
 * Indiana 47907.  All rights reserved.
 *
 * Written by Victor A. Abell
 *
 * This software is not subject to any license of the American
 * Telephone and Telegraph Company or the Regents of the
 * University of California.
 *
 * Permission is granted to anyone to use this software for
 * any purpose on any computer system, and to alter it and
 * redistribute it freely, subject to the following
```

```
 * restrictions:
 *
 * 1. Neither the authors nor Purdue University are responsible
 *    for any consequences of the use of this software.
 *
 * 2. The origin of this software must not be misrepresented,
 *    either by explicit claim or by omission.  Credit to the
 *    authors and Purdue University must appear in documentation
 *    and sources.
 *
 * 3. Altered versions must be plainly marked as such, and must
 *    not be misrepresented as being the original software.
 *
 * 4. This notice may not be removed or altered.
 */
```

Bug Reports
==========

Now that the obligatory disclaimer is out of the way, let me hasten to add that I accept lsof bug reports and try hard to respond to them. I will also consider and discuss requests for new features, ports to new dialects, or ports to new OS versions.

PLEASE DON'T SEND BUG REPORTS ABOUT LSOF TO THE UNIX DIALECT OR DIALECT OPTION VENDOR.

At worst such bug reports will confuse the vendor; at best, the vendor will forward the bug report to me.

PLEASE DON'T SEND BUG REPORTS ABOUT LSOF BINARIES BUILT OR DISTRIBUTED BY SOMEONE ELSE, BECAUSE I CAN'T SUPPORT THEM.

Before you send me a bug report,
please do these things:

* Make sure you try the latest lsof revision.

  + Download the latest revision from:

  ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof

  + Verify the signatures of what you have downloaded;

  + While connected to lsof.itap.purdue.edu, check for patches:

  ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/patches

+ If patches exist, install them in the latest revision
you just downloaded. Then build the latest revision and
see if it fixes your bug.

* If you're having trouble compiling lsof with gcc, try the
UNIX dialect vendor's compiler. I don't have access to gcc on
all test systems, so my support for it is hit-and-miss, and so
is my ability to respond to gcc compilation problem reports.

* Check the lsof frequently asked questions file, 00FAQ,
to see if there's a question and answer relevant to your
problem.

* Make sure you're running the lsof you think you are
by
checking the path to it with which(1). When in doubt, use an
absolute path to lsof. Make sure that lsof binary has
sufficient permissions to do what you ask, including internal
permissions given it (e.g., restrictions on what files lsof may
report for whom) during its build.

When you send a bug report, make sure you include output from your
running of lsof's Configure script. If you were able to compile a
running lsof, please also include:

* Output from which(1) that shows the absolute path to the
lsof binary in question;

* Output from running lsof with its -h and -v options at
lsof's absolute path;

* Output from "ls -l" directed to lsof's absolute path.

If you weren't able to compile a running lsof, please send me: the
compiler error output; identification of the lsof revision you're using
(contents of the lsof version.c file); identification of your system
(full uname output or output from whatever other tool
identifies the
system); and compiler identification (e.g., gcc -v output).

Either set of output will help me understand how lsof was configured
and what UNIX dialect and lsof revision is involved.

Please send all bug reports, requests, etc. to me via e-mail at
<abe@purdue.edu>. Make sure "lsof" appears in the "Subject:" line so
my e-mail filter won't classify your letter as Spam.

The 00FAQ File

The lsof distribution contains an extensive frequently asked questions file on lsof features and problems. I recommend you consult it before sending me e-mail. Use your favorite editor or pager to search 00FAQ -- e.g., supplying as a search argument some fixed text from an lsof error message.

The lsof-l Mailing List

Information about lsof, including notices about the availability of new revisions, may be found in mailings of the lsof-l listserv. For more information about it, including instructions on how to subscribe, read the 00LSOF-L file of the lsof distribution.

Field Output Example Scripts

Example AWK and Perl 4 or 5 scripts for post-processing lsof field output are locate in the scripts sub-directory of the lsof distribution. The scripts sub-directory contains a 00README file with information about the scripts.

Field Output C Library

The lsof test suite (See "Testing Lsof."), checks basic lsof operations using field output. The test suite has its own library of C functions for common test program operations, including processing of field output. The library or selections of its functions could be adapted for use by C programs that want to process lsof field output. See the library in the file LTlib.c in the tests/ sub-directory

Testing Lsof

Lsof has an automated test suite in the tests/ sub-directory that can be used to test some basic lsof features -- once lsof has been configured and made. Tests are arranged in three groups: basic

tests that
should run on all dialects; standard tests that should
run on all dialects; and optional tests that may not run on all
dialects or may need special resources to run. See 00TEST for more
information.)

CAUTION!!! Before you attempt to use the test suite make sure that
the lsof you want to test can access the necessary kernel resources
-- e.g., /dev/mem, /dev/kmem, /proc, etc. Usually you want to test
the lsof you just built, so this is an important check. (See
00TEST.)

To run the basic and standard tests, using the lsof in the parent
directory of tests/, do this:

```
$ cd tests
$ make test
  or $ make std
  or $ make standard
```

The basic and standard tests may be run as silently as possible,
using the lsof in the parent directory of tests/, with:

```
$ cd tests
$ make auto
```

This is the "automatic" test mode, designed for use by scripts that
build lsof. The caller is expected to test the make exit code to
determine if the tests succeeded. The caller should divert standard
output
and standard error to /dev/null to suppress make's error
exit message.

The optional tests may be run, using the lsof in the parent directory
of tests/, with:

```
$ cd tests
$ make opt
  or $ make optional
```

It's possible to excute individual tests, too. See the 00TEST file
of this distribution for more informaiton on the tests, what they
do, and how to run and possibly customize each test.

It's possible to run the tests, using an lsof other than the one
in the parent directory of /tests, too. See 00TEST for information
about using the LT_LSOF_PATH environment variable to do that.

==========
Dialect Notes
==========

AFS
===

Lsof recognizes AFS files on the following combinations of UNIX
dialect and AFS versions:

AIX 4.1.4 (AFS 3.4a)
Linux 1.2.13 (AFS 3.3)
NEXTSTEP 3.2 (AFS 3.3) (untested on recent lsof revisions)
Solaris 2.6 (AFS 3.4a)
Ultrix 4.2 RISC (AFS 3.2b) (no longer available)

Lsof has not been tested under other combinations -- e.g. HP-UX
10.10 and AFS 3.4a
-- and probably won't even compile there. Often
when a UNIX dialect version or AFS version changes, the new header
files come into conflict, causing compiler objections.

AIX
===

Specify the aix Configure abbreviation for AIX 4.1.[45], 4.2[.1],
4.3[.123], 5L, and 5.[123].

Specify aixgcc on AIX above 4.1 to use the gcc compiler. (Gcc can't be
used to compile lsof on AIX 4.1 and below because of kernel structure
alignment differences between it and xlc.) Gcc results sometimes
depend on the version of the gcc compiler that is used.

Compilation of lsof with gcc on AIX 4.3[.123], 5L, and 5.[123] has been
sparsely tested with varying degrees of success: it has been reported
to succeed on AIX 4.3.3 and 32 bit Power AIX 5.1; to fail on ia64 AIX
5.1 and 64 bit Power AIX 5.1; and to succeed on 32 and 64 bit Power AIX
5.2. Lsof compilation with gcc hasn't been tested on AIX 5.3.

At revision 4.61 and above lsof is configured and built to match the
bit size of the kernel of Power architecture
AIX 5.1 systems. Lsof
binaries built for 32 and 64 bit kernels are not interchangeable. See
00FAQ for more information.

The Configure script uses /usr/bin/oslevel to determine the AIX version for AIX less than 5 and ``uname -rv'' for AIX 5 and higher. If /usr/bin/oslevel isn't executable on AIX less than 5, the Configure script issues a warning message and uses ``uname -rv'' to determine the AIX version.

When Configure must use ``uname -rv'' on AIX less than 5 to determine the AIX version, the result will lack a correct third component -- e.g., the `4' of ``4.1.4''. If your AIX less than 5 system lacks lacks an executable oslevel, I suggest you edit the Configure-produced Makefile and complete the _AIXV definition in the CFGF string.

By default lsof avoids using the kernel's readx() function, causing it to be unable to report information on some text and library file references. The ``-X'' option allows the lsof user to ask for the information readx() supplies.

Lsof avoids
readx() to avoid the possibility of triggering a kernel problem, known as the Stale Segment ID kernel bug. Kevin Ruderman reported this bug to me. The bug shows up when the kernel's dir_search() function hangs, hanging the application process that called it so completely that the application process can neither be killed nor stopped. The hang is the consequence of another process (perhaps lsof) making legitimate use of the kernel's readx() function to access the kernel memory that dir_search() is examining. IBM has indicated they have no plans to fix the bug.

A fuller discussion of this bug may be found in the 00FAQ file of the lsof distribution. There you will find a description of the Stale Segment ID bug, the APAR on it, and a discussion of the sequence of events that exposes it.

I added the ``-X'' function so you can tell lsof to use readx(), but if you use ``-X'', you should be alert to its possibly serious side effects. Although readx() is normally disabled, its state
is
controlled with the HASXOPT, HASXOPT_ROOT, and HASXOPT_VALUE definitions in dialects/aix/machine.h, and you can change its default state by changing those definitions. You can also change HASXOPT_ROOT via the Customize script.

You can also compile lsof with readx() use permanently enabled or disabled -- see the comments about the definitions in the dialects/aix/machine.h header file. You may want to permanently disable lsof's use of readx() if you plan to make lsof publicly executable. You can also restrict -X to processes whose real UID is root by defining HASXOPT_ROOT.

I have never seen lsof cause the Stale Segment ID bug to occur and haven't had a report that it has, but I believe there is a possibility it could.

AFS support for AIX was added with help help from Bob Cook and Jan Tax who provided test systems.

Henry Grebler and David J. Wilson helped with lsof for AIX 4.2.

Bill Pemberton provided an AIX 4.3 test system. Andrew Kephart and Tom Weaver provided AIX 4.3 technical assistance. Niklas Edmundsson did 4.3.1 testing. Doug Crabill provided an AIX 4.3.2 test system. Jeff W. Stewart provided an AIX 4.3.3 test system.

The SMT file type for AIX 4.1.[45], 4.2[.1], and 4.3[.12] is my fabrication. See the 00FAQ file more information on it.

Loc Le and Nasser Momtaheni of IBM provided test systems for AIX 5L and 5.1. Lsof for AIX 5L and 5.1 needs setuid-root permission to process the -X option on systems whose architecture type is ia64.

Dale Talcott of Purdue provided AIX 5.1 and 5.2 test systems. Dale and John Jackson of Purdue provided an AIX 5.3 test system.

Apple Darwin

The Apple Darwin port was provided by Allan Nathanson for version 1.2. Allan also arranged for access to a test system for maintenance and regression testing. Dale Talcott provided a test system, too.

Allan supplied patches for updates to 1.4, 5.x, 6.x, 7.x and 8.x.

BSDI BSD/OS

As of lsof revision 4.77 support for BSDI BSD/OS has been discontinued.
Lsof revision 4.76 with BSDI BSD/OS support may be found on lsof.itap.purdue.edu in pub/tools/unix/lsof/src.

DEC OSF/1, Digital UNIX, Tru64 UNIX

Robert Benites, Dean Brock, Angel Li, Dwight McKay, Berkley Shands, Ron Young and Steve Wilson have kindly provided test systems. Jeffrey Mogul has provided technical assistance. Dave Morrison and Lawrence MacIntyre did Digital UNIX V3.2 testing.

Lsof supports the ADVFS/MSFS layered file system product. Lsof can locate all the open files of an ADVFS/MSFS file system when its path is specified, provided the file system is listed in /etc/fstab with an ``advfs'' type. (This /etc/fstab caveat applies only to Digital UNIX 2.0.) At Digital UNIX 4.0 and Tru64 UNIX, using code provided by David Brock, lsof 4.20 and above can locate ADVFS file paths.

Testing of lsof on DEC OSF/1 and Digital UNIX 4.0 ended with lsof revision 4.74. Hence, the lsof documentation has dropped the claim that it works there.
For a distribution of lsof 4.74 that was tested on DEC OSF/1 and Digital UNIX 4.0, check pub/tools/unix/lsof/OLD/src on the lsof ftp home, lsof.itap.purdue.edu.

Lsof revisions past 4.74 have only been tested on Tru64 UNIX 5.1.

FreeBSD

Bill Bormann of Purdue University provided access to several FreeBSD test systems. Ade Barkah, John Clear, Ralph Forsythe, Michael Haro, Kurt Jaeger, and William McVey have also provided FreeBSD test systems.

The FreeBSD distribution header files are augmented by header files in the dialects/freebsd/include directory.

Larry Rosenman maintains the lsof FreeBSD port package.

HP-UX

Lsof has two HP-UX bases: /dev/kmem for HP-UX 11.0 and earlier; and PSTAT for HP-UX 11.11 and later. The lsof Configure script will pick the appropriate base.

To use the CCITT x.25 socket support for HP-UX, you must have the x.25 header files in /etc/conf/x25

Pasi Kaara helped with the HP-UX port, especially with its CCITT
x.25 socket support.

Richard
Allen provided HP-UX 10.x and 11.x test systems, as did
Mark Bixby, and Elias Halldor Agustsson. Marc Winkler helped test
the 10.20 port. Richard J. Rauenzahn provided a 64 bit HP-UX 11
test system and an HP-UX 11.11 development system.

AFS support for HP-UX was added thanks to help from Chaskiel Moses
Grundman, who provided a test system.

The /dev/kmem-based HP-UX 11.00 support is extremely fragile. It
depends on privately developed kernel structure definitions. (See
.../dialects/hpux/hpux11 for the header files making the definitions.)
Those header files and their definitions will not be updated by
HP-UX 11.00 patches, making it likely that any patch changing a
kernel structure critical to lsof will break lsof in some way.

It's possible to build a 64 bit lsof for 64 bit HP-UX 11.00 with
gcc, but you must have a gcc compiler capable of producing 64 bit
executables. See the 00FAQ file for more information.

The PSTAT-based lsof for HP-UX 11.11 and later is much more solid.
I
am indebted to the vision of HP for providing an lsof kernel API
through the PSTAT implementation. Specifically I appreciate the
help of HP staff members Carl Davidson, Louis Huemiller, Rich
Rauenzahn, and Sailu Yallapragada that made PSTAT-based HP-UX lsof
possible.

IPv6
====

Lsof has IPv6 support that has been tested for these UNIX dialects:
AIX 4.3.x; Apple Darwin 5.[12] and 6.0; the INRIA and KAME FreeBSD IPv6
implementations; PSTAT-based HP-UX; /proc-based Linux; the INRIA and
KAME NetBSD implementations; and Solaris 8 and 9. Lsof has IPv6
support that hasn't been tested for: OpenBSD (KAME); OpenUNIX 8; Tru64
Unix 5.[01]; and UnixWare 7.1.[34].

Please let me know if your UNIX dialect has IPv6 support and I'll
see if it can be supported by lsof.

Linux
=====

Tim Korb, Steve Logue, Joseph J. Nuspl Jr., and Jonathan Sergent
have provided Linux test systems.

Michael Shields helped add and test automatic handling of ELF/COFF
form names in /System.map, Marty Leisner and Keith
Parks have helped
test many lsof revisions. Marty has provided valuable suggestions,
Linux hints, and code, too.

The 00FAQ file gives some Linux tips, including information on
coping with system map file problems.

To determine the state of the Linux 2.1.x C library lseek() function,
the lsof Configure script runs a test program that must have
permission to read /dev/kmem. The test determines if the lseek()
function properly handles kernel offsets, which appear to be negative
because their high order bit is set. If the lseek() test reveals
a faulty lseek(), Configure activates the use of a private lseek()
function for kernel offset positioning. See the Linux problems
section of the 00FAQ file of the lsof distribution for more
information.

NetBSD
======

Greg Earle and Paul Kranenburg have assisted with the NetBSD ports.
Paul has provided test systems. Ray Phillips provided a NetBSA
Alpha test system. Andrew Brown also provided a test system.

The NetBSD dialect version of lsof
is compiled using the dialect
sources it shares with OpenBSD in the n+obsd dialect sub-directory.

NEXTSTEP and OPENSTEP
=====================

Virtual memory header files that allow lsof to display text references
were derived from the contents of /usr/include/vm of NEXTSTEP 2.0.
NeXT did not ship the virtual memory header files with other NEXTSTEP
or OPENSTEP versions.

You may use the RC_FLAGS environment variable to declare compiler
options outside the Makefile. A common use of this variable is to
define the architecture types to be included in a "fat" executable.
See the comments in dialects/next/Makefile for an example.

OpenBSD

David Mazieres has provided OpenBSD test systems. The OpenBSD dialect version of lsof is compiled using the dialect sources it shares with NetBSD in the n+obsd dialect sub-directory.

Kenneth Stailey has provided OpenBSD testing and advice.

John Dzubera (Zube) reports, "lsof 4.33 compiles and runs on OpenBSD 2.3 for the pmax architecture (decstation 3100)."

I have not tested lsof on OpenBSD 3.8, but David Mazieres reports revision 4.76 worked on OpenBSD 3.8.

Pyramid DC/OSx and Reliant UNIX

As of lsof revision 4.52 support for all Pyramid dialects has been discontinued. Lsof revision 4.51 with Pyramid support may be obtained upon request. Send the request to abe@purdue.edu.

These two UNIX dialects are very similar and share dialect-specific source files from the pyramid sub-directory.

The Reliant Unix Pyramid C compiler issues warning messages that I haven't found a convenient way to suppress. You can ignore warning messages about casts and conversions that lose bits. The message "warning: undefining __STDC__" is intentionally caused by the lsof MkKernOpts configuration script to suppress warning messages about cast and conversion problems in standard system header files, such as <stdio.h> and <string.h>.

Bruce Beare and Kevin Smith provided test systems.

Caldera OpenUNIX

Larry Rosenman provided an OpenUNIX 8 test system. Matthew Thurmaier provided technical assistance, along with these people from Caldera: Jack Craig, Robert Lipe, and Bela Lubkin.

Robert Lipe supplied changes to lsof for OpenUNIX 8.0.1. Those changes were also incorporated in UnixWare 7.1.3 when it became the release name for OpenUNIX 8.0.1.

Support for lsof on OpenUNIX ended at lsof revision 4.74. The last lsof revision, 4.74, tested on OpenUNIX, may be found at the lsof "home" ftp site, lsof.itap.purdue.edu, in pub/tools/unix/lsof/OLD/src.

SCO OpenServer

Dion Johnson, Bela Lubkin, and Nathan Peterson of SCO gave me copies of SCO OpenServer and the SCO OpenServer Development System 3.0 and provided technical advice for the lsof port.

Hugh Dickins, Bela Lubkin, Craig B. Olofson, and Nathan Peterson provided version 5.0 and gave technical advice for porting lsof to it. Bela provided the 5.0.4 changes. D. Chris Daniels provided a 5.0.4 test system,
Lee Penn provided one for 5.0.5, and John
Dubois for 5.0.6.

The <netdb.h> header file was accidentally omitted from some SCO OpenServer Development System releases. The Configure script will sense its absence and substitute an equivalent from the BSD distribution. The BSD <netdb.h> and the <sys/cdefs.h> header file it includes are located in the dialects/os/include sub-directory tree.

To compile lsof from its distribution sources you must have the TCP/IP and NSF headers in /usr/include. While those are optional OpenServer packages, I have access to no system that doesn't have them, so I'm unable to build lsof for such a configuration. However, it should be possible to modify the lsof Configure script and sources so lsof would compile and work without those optional packages.

If you have an OpenServer system configured without the TCP/IP and NFS packages, and want to tackle the job of building lsof for it, contact me via e-mail at <abe@purdue.edu>. I'll identify the Configure
script, header file, and source file changes you will
need to make. (Caution: this is not a simple task, or I would have already done it.)

The optional osrgcc and scogcc Configure abbreviations construct Makefiles for compiling lsof with gcc.

The UnixWare 7.1.4 sources are used for OpenServer Release 6.0.0.
Hence there is a separate Configure abbreviation for it, "osr6".
Richard of SCO provided a test system and technical assistance.

SCO|Caldera UnixWare
==========

D. Chris Daniels, John Hughes, Ken Laing, Andrew Merril, Lee Penn, and
Matthew Thurmaier provided test systems. Bela Lubkin provided
technical assistance. Larry Rosenman provided 7.1.[34] test systems.

Solaris 2.x, 7, 8, 9 and 10
==========

SEE THE CAUTIONS SECTION OF THIS DOCUMENT.

The latest Solaris revision of lsof 4 might work under Solaris
2.[1-4] and 2.5[.1] and 7 but hasn't been tested there. I have no
test systems for those Solaris versions.

Lsof will compile with gcc and the Sun C compiler
under Solaris.
If you want to use the Sun compiler, use the solariscc Configure
abbreviation. If you use a gcc version less than 2.8 on Solaris,
make sure the gcc-specific includes have been updated for your
version of Solaris -- i.e., run the gcc fixincludes script.

Solaris 7, 8, 9 and 10 support for 64 bit kernels depends on a Sun
WorkShop or Forte C compiler version that supports the "-xarch=v9"
flag -- usually 5.0 or greater. Gcc versions 2.95 and above *may*
be configured and built for 64 bit support, but it takes some extra
work, the resulting compiler may be fragile, and the gcc developers
discourage it. I've built 64 bit capable gcc compilers for Solaris
7, 8 and 9 from gcc versions 2.95 through 3.0.1 and produced working
lsof executables with them. More information on 64 bit gcc for
Solaris may be found in the 00FAQ file.

Solaris 10 ZFS support is questionable, because Sun does not distribute
the ZFS kernel structure definition header files. The lsof Configure
script
and source code use some risky work-arounds. ZFS file system
support was made possible with help from Horst Scheuermann.

Dave Curry and Steve Kirsch provided resources for Solaris 2.x
ports. Casper Dik and Gerry Singleton consulted and provided

valuable assistance.

Henry Katz, Joseph Kowalski, Charles Stephens, Mike Sullivan, and
Mike Tracy provided technical assistance.

AFS support was added to Solaris lsof with help from Curt Freeland,
Heidi Hornstein, Michael L. Lewis, Terry McCoy, Phillip Moore, and
Sushila R. Subramanian.

Casper Dik provided valuable assistance for the Solaris 8 support.

Sun has graciously provided me access to BETA versions of Solaris
2.5, 2.6, 7, 8, and 9.

John Dzubera provided Solaris 7 and 8 test systems.

Mike Miscevic provided Solaris 10 test systems.

Ultrix
======

As of lsof revision 4.52 support for Ultrix is no longer available,
because I no longer have an Ultrix test system.

Terry Friedrichsen, Dwight McKay, and Jeffrey Mogul helped me
 with
this port.

DECnet support was added to Ultrix lsof with the help of John
Beacom, who kindly provided a test system. The Configure script
decides that DECnet support is available if /usr/lib/libdnet.a and
/usr/include/netdnet/dn.h exist and are readable.

Veritas VxFS and VxVM
=====================

Lsof supports some versions of Veritas VxFS and VxVM on some UNIX
dialects. Consult the lsof Configure script for the specific
dialect, and consult the lsof dialect-specific source files for
the UNIX dialect of interest. Veritas support will usually be
found in a source file named dnode[1-9].c.

Since Veritas rarely has a version number that can be extracted
with shell commands, lsof doesn't use it. Instead, when lsof
supports Veritas, the Configure script will form compile-time
definitions starting with HASVXFS. Check the lsof 00PORTING

documentation file for more information.

Lsof Veritas support requires that the supporting Veritas header files be installed -- e.g., in /usr/include/sys/fs.
(The location
will depend in the dialect's header file conventions.)

Some information on lsof support for Veritas extensions may be found in the lsof 00DIST file. (The ChangeLog file points to 00DIST.)

Chris Kordish and Andy Thomas have provided Solaris VxFS test systems.

==========
User-contributed Dialect Support
==========

There are some user-contributed dialect versions of lsof; more information on them can be found at:

ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/contrib

Check the 00INDEX file there for details.

==========
Dialects No Longer Supported
==========

Because I don't have access to test systems, these UNIX dialects are no longer supported by lsof:

CDC EP/IX
/dev/kmem-based Linux
MIPS RISC/os
Motorola V/88
Pyramid DC/OSx
Pyramid Reliant UNIX
Sequent DYNIX
SGI IRIX
SunOS 4.x
Ultrix
UnixWare below 7.0

Remnants of the support lsof once provided for these

dialects may
be found in:

ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/OLD/dialects

==========
Installing Lsof
==========

The distributed Makefiles do not have actions that will install lsof. I've come to the conclusion there is no standard for installing lsof or its man page, so I no longer distribute make rules for installing them. You should adjust the Makefile for your local preferences.

The Makefile does have an install rule that will cause lsof to compile by virtue of its dependency clause. Some Makefiles also have a dependency that causes the production of a man page that is ready to install. However, the actions of the install rule will not cause the lsof executable or its man page to be installed in any UNIX system-wide directory.

Instead, after the compilation and optional man page production are completed, the install rule will produce a brief description of what actions you might add to the install rule. The description will suggest the possible
modes, ownerships, permissions, and
destinations your install rule might employ to install the lsof executable and man page.

As you form your install rule, keep in mind that lsof usually needs some type of special permission to do its job. That may be permission to read memory devices such as /dev/kmem, /dev/mem, or /dev/swap, or it may be authorization to read entries in the /proc file system.

Memory device access can usually be provided by setting the modes of the lsof executable so that it's effective group identifier when it runs is the same as the group that has permission to read the memory devices -- i.e., it is setgid-group. The privileged group is usually kmem, sys, or system.

Don't overlook using ACLs -- e.g., on AIX or Solaris 8 -- to give lsof permission to access memory devices. ACLs, coupled to a separate group like kmem, can be safer than giving lsof setgid authorization to a commonly used system group.

When lsof needs to read /proc file system entries, it must be

installed
with modes that make its effective user identifier root
when it runs -- i.e., it must be setuid-root. If lsof must be
installed setuid-root (only the AIX 5L, PSTAT-based HPUX, and
/proc-based Linux, ports need such power.), then access to memory
devices is automatic (or not needed in the case of /proc-based
Linux).

Your choice of permissions for lsof may also be affected by your
desire to allow anyone to use it or your need to restrict its usage
to specific individuals. You will have to be guided by local policy
and convention in this case.

The next two sections, Setgid Lsof Dialect Versions and Setuid-root
Lsof Dialect Versions, list recommended install permissions.

The system directory where you install the lsof executable is also
open to choice. A traditional place for a tool like lsof is
/usr/local/etc, but recent changes in directory structure organization
suggest that somewhere in /opt may be more suitable.

Bear one other factor in mind when choosing a location
for the lsof
executable -- it usually is a shared executable, requiring access
to shared libraries. Thus, locations like /sbin or /usr/sbin are
probably unsuitable.

Once you've chosen a location for the executable you may find that
the location for the man page follows -- e.g., if the executable
goes in /usr/local/etc, then the man page goes in /usr/local/man.
If the executable location doesn't imply a location for the man
page, you'll have to let local custom guide you.

Setuid-root Lsof Dialect Versions
==========

These dialect versions should be installed with setuid-root
permission -- i.e., the lsof binary should be owned by root and
its setuid execution bit (04000) should be set.

AIX 5L and above for full use of the -X option
Apple Darwin 8.x for Power Macintosh systems
PSTAT-based HP-UX 11.11 and 11.23
/proc-based Linux (generally 2.1.72 and above)

Setgid Lsof Dialect Versions

==========

These dialect versions should be installed
 with setgid permission,
owned by the group that can read kernel memory devices such as
/dev/drum, /dev/kmem, /dev/ksyms, /dev/mem, /dev/swap. ACLs may
be another mechanism (e.g., under AIX or Solaris 8) you can use to
grant read permission to the kernel memory devices.

 AIX 4.1.[45], 4.2[.1], and 4.3[.123]
 Apple Darwin 7.x for Power Macintosh systems
 DEC OSF/1, Digital UNIX, Tru64 UNIX 2.0, 3.2, 4.0, and 5.[01]
 FreeBSD 2.1.6, 2.2[.x], 3.x, 4.x, 5.x, [6789].x and 1[012].x
 NetBSD 1.[456], 2.x and 3.x
 NEXTSTEP 3.[13]
 OpenBSD 2.[89] and 3.[0-9]
 OPENSTEP 4.x
 Caldera OpenUNIX 8
 SCO OpenServer 5.0.[46]
 SCO UnixWare 7.0 and 7.1.[0134]
 Solaris 2.6, 8, 9 and 10
 Ultrix 4.2 (no longer available)

==========
Porting lsof 4 to a New UNIX Dialect
==========

If you're brave enough to consider this, look at the 00PORTING
file. Please contact me before you start. I might be able to help
you or even do the port myself.

Don't overlook
 the contrib/ directory in pub/tools/unix/lsof on my
ftp server, lsof.itap.purdue.edu. It contains user-contributed ports
of lsof to dialects I don't distribute, because I can't test new
revisions of lsof on them.

==========
Quick Start to Using lsof
==========

For information on how to get started quickly using lsof, consult
the 00QUICKSTART file of the lsof distribution. It cuts past the
formal density of the lsof man page to provide quick examples of
using lsof to solve common open file display problems.

==========
Cross-configuring Lsof
==========

Using environment variables it is possible to Configure (and possibly build) lsof for one UNIX dialect on a different one -- e.g., you are running Configure on a Linux 2.3 system and you want to Configure and build lsof for Linux 2.4.

See the 00XCONFIG file of the lsof distribution for a discussion of how to do this.

==========
Environment
 Variables Affecting the Configure Script
==========

Configure script actions can be modified by introducing values to the script via environment variables. In many cases the environment variable values take the place of test operations the Configure script makes.

For more information on environment variables that can affect Configure, consult the 00XCONFIG file of the lsof distribution. See the General Environment Variables sections for descriptions of ones that affect all dialects. Consult the Dialect-Specific Environment Variables section for ones that might affect the dialect you are trying to configure.

Vic Abell <abe@purdue.edu>
February 14, 2018

Found in path(s):
* /opt/cola/permits/2134360459_1722972872.2498574/0/lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/00README
No license file was found, but licenses were detected in source scan.

Frequently Asked Questions about lsof

****
| The latest release of lsof is always available via anonymous ftp |
| from lsof.itap.purdue.edu. Look in pub/lsof.README for its |
| location. |
****

This file contains frequently asked questions about lsof and answers
to them.

Vic Abell <abe@purdue.edu>
October 13, 2014

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17.4 Why doesn't lsof work under my Solaris 2.4 system?
17.5 Where are the Solaris header files?
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17.7 Why does Solaris lsof say ``can't read proc table''?
17.8 Why
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17.9 Why doesn't Solaris make generate .o files?
17.10 Why does lsof report some Solaris 2.3 and 2.4 lock types as `N'?
17.11 Why does lsof Configure say "WARNING: no cc in ..."?
17.12 Solaris 7, 8 and 9 Problems
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17.12.2 Why does Solaris 7, 8 or 9 lsof say "FATAL: lsof was compiled
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17.12.3 How do I build lsof for a 64 bit Solaris kernel under a 32
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17.12.4 How do I install lsof for Solaris 7, 8 or 9?
17.12.5 Why does my Solaris 7, 8 or 9 system say it cannot execute
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17.15 Why does lsof say, "kvm_open(namelist=default, core=default):
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17.18.3 Why does Solaris Configure claim there is no VxFS library?
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17.24.2 Why doesn't lsof work in a Solaris 10 zone?
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17.27 Solaris 10 and above ZFS probblems
17.27.1 Why does Configure warn that ZFS support is not enabled?
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17.28.1 Why does the compiler complain about lgrp_root on Solaris 9
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18.2 How do I disable the device cache file feature or alter
it's behavior?

18.2.1 What's the risk with a perverted device cache file?
18.2.2 How do I put the full host name in a personal device cache file path?
18.2.3 How do I put the personal device cache file in /tmp?
18.3 Why doesn't lsof know about AFS files on my favorite dialect?
18.3.1 Why doesn't lsof report node numbers for all AFS volume files, or how do I reveal dynamic module addresses to lsof?

1.0 General Concepts

1.1 Lsof -- what is it?

Lsof is a UNIX-specific tool. Its name stands for LiSt Open Files, and it does just that. It lists information about files that are open by the processes running on a UNIX system.

See the lsof man page, the 00DIST file, the 00QUICKSTART file, and the 00README file of the lsof distribution for more information.

1.2 Where do I get lsof?

Lsof is available via anonymous ftp from lsof.itap.purdue.edu. Look in the pub/tools/unix/lsof sub-directory.

ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof

Bzip2'd, compressed and gzip'd tar files with GPG certificates are available.

1.2.1 Are there mirror sites?

On March 21, 2013 these sites appeared to have the lastest lsof revision:

ftp://ftp.fu-berlin.de/pub/unix/tools/lsof
ftp://sunsite.ualberta.ca/pub/Mirror/lsof
http://www.mirrorservice.org/sites/lsof.itap.purdue.edu/pub/tools/unix/lsof/
ftp://ftp.mirrorservice.org/sites/lsof.itap.purdue.edu/pub/tools/unix/lsof/
rsync://rsync.mirrorservice.org/lsof.itap.purdue.edu/pub/tools/unix/lsof/

1.2.2 Are lsof executables available?

Some lsof executables are available in the subdirectory

tree pub/tools/unix/lsof/binaries These are neither guaranteed to be current nor cover
every dialect and machine architecture.

I don't recommend you use pre-compiled lsof binaries; I recommend you obtain the sources and build your own binary. Even if you're a Sun user without a Sun C compiler, you can use gcc to compile lsof.

If you must use a binary file, please be conscious of the security and configuration implications in using an executable of unknown or different origin. The lsof binaries are accompanied by GPG certificates. Please use them!

Three additional cautions apply to executables:

1. Don't try to use an lsof executable, compiled for one version of a UNIX dialect, on another. Patches can make the dialect version different.

2. If you want to use an lsof binary on multiple systems, they must be running the same dialect OS version and have the same patches and feature support.

1.2.3 How do I check the validity of an lsof distribution?

There are two ways to check the validity of an lsof distribution:

1. Follow the
instructions in the CHECKSUMS_<revision>
file found with the lsof distribution.

   Checking with GPG is the best method.

2. Follow the instructions in the "Security" section of the README.lsof_<revision> file found inside the lsof distribution.

   Again, checking with GPG is the best method.

1.2.4 Why can't I get the sum(1) result reported in README.lsof_<revision>?

The "Security" section of the README.lsof_<revision> file found inside the lsof distribution gives md5, sum, and GPG certificate information.

The simplest, the sum(1) signature, seems to be the trickiest. That's because there are different sum(1) methods, BSD systems usually have cksum(1) instead of sum(1), and different systems compute the block size value differently.

First, the lsof sum results are computed with the old, "alternate" algorithm. On newer systems, you can use sum's "-r" option to get that computation result.

Second, on BSD systems you usually must use cksum(1) instead of
sum(1), because they have no sum(1). To tell cksum(1) to use the old, "alternate" algorithm, use its "-o1" option.

Third, the second value that sum reports, the block count, may be computed differently on different systems -- usually block size is considered to be 512 or 1,024. The lsof block counts were computed on a system with a sum(1) option that considers block size to be 512. The BSD system cksum(1) -o1 option considers block size to be 1,024. If your sum(1) or cksum(1) doesn't report a block count that matches the sum(1) signature given in README.lsof_<revision>, check its man page to see what block size it uses, then adjust its reported block count appropriately.

1.2.5 Why won't gpg accept the lsof-signing PGP public key?

An older PGP key that once signed lsof distributions is included in lsof revisions prior to 4.70. The PGP key is indeed my key, but is incompatible with GPG. It was created about ten years ago and is still acceptable to PGP versions
2.6.2
through 6.5.2.

Lsof revisions 4.70 and above are signed with a copy of my PGP key that has been made acceptable for use with GPG by importing it under GPG's "--allow-non-selfsigned-uid" option.

You can find my GPG compatible key in lsof revisions 4.70 and above and at:

ftp://lsof.itap.purdue.edu/pub/Victor_A_Abell.gpg

If you have an older lsof revision with my PGP key, there are two possible ways to use it:

* Use it with a PGP version from 2.6.2 through 6.5.2.

* Use GPG's "--allow-non-selfsigned-uid" option when you
  import my PGP key into your GPG key ring.

  $ gpg --allow-non-selfsigned-uid --import Victor_A_Abell.pgp

1.3 Where can I get more lsof documentation?

A significant set of documentation may be found in the lsof distribution (See "Where can I get lsof?). There is a manual page, copious documentation in files whose names begin with 00, and a copy of this FAQ in the file 00FAQ (perhaps slightly less recent than this file if you're reading
it via a web browser.)

Two URLs provide some documentation that appears in the lsof distribution:

FAQ: ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/FAQ

man page: ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/lsof_man

1.4 How do I report an lsof bug?

If you believe you have discovered a bug in lsof, you can report it via e-mail to <abe@purdue.edu>. Do NOT report lsof bugs to the UNIX dialect vendor. Make sure "lsof" appears in the "Subject:" line so my e-mail filter won't classify your letter as Spam.

Before you send me a bug report, please read the "Bug Reports" section of the 00README file of the lsof distribution. It lists the steps you should take before and when reporting a suspected bug.

1.5 Where can I get the lsof FAQ?

This lsof FAQ is available in the file 00FAQ in the lsof distribution and at the URL:

    ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/FAQ

1.5.1 How timely is the on-line FAQ?

The on-line FAQ is sometimes too timely. :-)

I

update it as soon as new information is available. That may include information about support that won't appear in the lsof source distribution until the next revision. If you encounter something like that, please send me e-mail at <abe@purdue.edu>. I may be able to point you at a pre-release distribution that contains the support of interest. Make sure "lsof" appears in the "Subject:" line so my e-mail filter won't classify your letter as Spam.

1.6 Is there a test suite?

Yes, as of lsof revision 4.63 there's an automated lsof test suite in the tests/ sub-directory of the lsof top-level directory.

More information on using the test suite, what it does, how to use it and how to configure it may be found in the 00TEST file of the lsof distribution. That file also explains where the test suite has been tested.

Frequently asked questions about the test suite will be asked and answered here in the FAQ. (See "Test Suite Problems.")

After lsof has been configured
with the Configure script,
lsof can be made and tested with:

```
$ make
$ cd tests
$ make
```

Under normal conditions -- i.e., unless the lsof tree has been cleaned or purged severely -- all tests or individual tests may be run by:

```
$ cd test
$ make
or
$ <run a single test> (See 00TEST.)
```

1.7 Is lsof vulnerable to the standard I/O descriptor attack?

Lsof revisions 4.63 and above are not vulnerable.

Lsof revisions 4.62 and below are vulnerable, but no damage scenarios have so far been demonstrated.

The standard I/O descriptor attack is a local programmed

assault on setuid and setgid programs that tricks them into opening a sensitive file with write access on a standard descriptor, usually stderr (2), and writing error messages to stderr. If the attacker can control the content of the error message, the attacker may gain elevated privileges.

The attack was first described in Pine Internet Advisory PINE-CERT-20020401, available at:

http://www.pine.nl/advisories/pine-cert-20020401.txt

If you are using an lsof revision below 4.63, you should remove any setuid or setgid permissions you might have given its executable. Then you should upgrade to lsof revision 4.63.

1.8 Can I alter lsof's make(1) behavior?

Yes. There are at least two ways to do that.

You can put replacements for lsof Makefile strings in your environment. If you specify the -e make option, make will give environment variable values precedence over strings from the Makefile. For example, to change the compiler string CC from the environment, you might do this with the Bourne shell:

```
$ CC=foobar; export CC
$ make -e
```

You can also replace lsof Makefile strings in the make command invocation. Here's the previous example done that way:

```
$ make CC=foobar
```

Changing the CFGF, CFGL, and DEBUG strings used in lsof Makefiles, either from the environment or from the make invocation, can significantly alter lsof make(1) behavior.
I
commonly use DEBUG to change the -O option to -g so I can build an lsof executable for debugging -- e.g.,

```
$ make DEBUG=-g
```

(Look for DEBUG in this FAQ for other examples of its use.)

Consult the Makefiles to see what CFGL, CFGL, and other
lsof Makefile strings contain, and to see what influence
their alteration might have on lsof make(1) behavior.

1.9 Is there an lsof license?

No.

The only restriction on the use or redistribution of lsof
is contained in this copyright statement, found in every
lsof source file. (The copyright year in or format of the
notice may vary slightly.)

```
/*
 * Copyright 2002 Purdue Research Foundation, West Lafayette,
 * Indiana 47907.  All rights reserved.
 *
 * Written by Victor A. Abell
 *
 * This software is not subject to any license of the American
 * Telephone and Telegraph Company or the Regents of the
 * University of California.
 *
 * Permission is granted to anyone to use this software for
 * any purpose on any
computer system, and to alter it and
 * redistribute it freely, subject to the following
 * restrictions:
 *
 * 1. Neither the authors nor Purdue University are responsible
 *    for any consequences of the use of this software.
 *
 * 2. The origin of this software must not be misrepresented,
 *    either by explicit claim or by omission.  Credit to the
 *    authors and Purdue University must appear in documentation
 *    and sources.
 *
 * 3. Altered versions must be plainly marked as such, and must
 *    not be misrepresented as being the original software.
 *
 * 4. This notice may not be removed or altered.
 */
```

1.10 Language locale support

1.10.1 Does lsof support language locales? How do I use the support?

Most UNIX dialect versions of lsof support 8 bit language

locale characters -- e.g., the ability to print 8 bit
characters that have accents and other marks over them.

See the answer to the "Does lsof support wide characters in
language locales?" question
for information on when lsof's
language locale support covers characters wider than 8 bits.

To see if lsof supports language locales for your dialect, look
in the dialect's machine.h header file for the HASSETLOCALE
definition. If it is present and not disabled, then lsof has
language locale support for the dialect.

To enable lsof's language locale support, you must specify in a
locale environment variable (e.g., LANG) a language locale
known to your system that supports the printing of marked
characters -- e.g, en_US. (On some dialects locale(1) may be
used to list the known language locales.)

Note that LANG=C and LANG=POSIX are NOT language locales that
support the printing of marked characters.

If the language locale doesn't support the printing of marked
characters, lsof's OUTPUT of them follows the rules for
non-printable characters described in the OUTPUT section of
lsof(8).

Consult your dialect's setlocale(3) man page for the names of
environment variables
other than LANG -- e.g., LC_ALL,
LC_TYPE, etc. -- which may be used to define language locales.

1.10.2 Does lsof support wide characters in language locales?

When lsof's language locale support is enabled with the
HASSETLOCALE definition, for selected dialects lsof will also
print wide characters (e.g., from UTF-8) when iswprint(3)
reports them to be printable.

Wide character support is available when HASWIDECHAR is defined
in a dialect's machine.h header file. As of this writing on
July 22, 2004, the following dialect versions have wide character
support:

AIX >= 4.3.2
Apple Darwin >= 7.3.0
FreeBSD >= 5.2
HP-UX >= 11.00

/proc-based Linux
NetBSD >= 1.6
SCO OpenServer >= 5.0.6
Solaris >= 2.6
Tru64 UNIX 5.1

1.11 Are any files in the lsof distribution copyrighted?

Yes. Most files carry the copyright of the Purdue Research Foundation and may be redistributed under the terms that accompany the copyright notice. Those terms may also be found in the answer to the question, "Is there an lsof license?")

A few files carry other copyright notices. Some are BSD notices and they explain the terms under which they are included in the lsof distribution.

Those that carry vendor copyright notices have been reproduced in their original or modified forms with permission from the copyright owners. That permission is indicated in the README files that accompany the files.

1.12 Are there other lsof-related resources?

There are other resources available, connected to lsof. Among them are FreeBSD and Linux packages whose products use lsof and two particularly interesting resources.

The two interesting resources are a Gnome Tool Kit (GTK) GUI for lsof and a Perl wrapper module.

The GTK GUI is called Glsof and was developed by Gnele. It can be found at:

http://www.sourceforge.net

The Perl wrapper module by Marc Beyer can be found at:

http://search.cpan.org/dist/Unix-Lsof/

1.13 What does the "WARNING: unsupported dialect or version" mean?

The lsof configure script issues that message for UNIX dialects or their versions where I have been unable to test the current revision of lsof. The message doesn't mean that lsof won't work, just that I have no direct evidence that it will.

If the COnfigure script succeeds, except for the warning, try
compiling) lsof. If that succeeds, try the lsof test suite.

2.0 Lsof Ports

2.1 What ports exist?

The pub/lsof.README file carries the latest port information:

AIX 5.[23] and 5.3
FreeBSD 4.9 and 6.4 for x86-based systems
FreeBSD 8.[234], 9.0, 10.0 and 11.0 for AMD64-based systems
Linux 2.1.72 and above for x86-based systems
Solaris 9, 10 and 11

In the above list the only UNIX dialects present are ones for
which I test the current lsof revision. Lsof may still support
unlisted dialect versions -- e.g., HP-UX 10.20, Solaris 7, etc.
-- but I don't have access to systems where I could test
lsof
on them, so I can't claim lsof works on them. If your dialect
isn't in the list, you should try building lsof on it anyway.

Lsof version 4 predecessors, versions 2 and 3, may support older
version of some dialects. Contact me via e-mail at <abe@purdue.edu>
if you're interested in their distributions. Make sure "lsof"
appears in the "Subject:" line so my e-mail filter won't classify
your letter as Spam.

2.2 What about a new port?

The 00PORTING file in the distribution gives hints on doing
a port. I will consider doing a port in exchange for
permanent access to a test host. I require permanent access
so I can test new lsof revisions, because I will not offer
distributions of dialect ports I cannot upgrade and test.

2.2.1 User-contributed Ports

Sometimes I receive contributions of ports of lsof to
systems where I can't test future revisions of lsof. Hence,
I don't incorporate these contributions into my lsof
distribution.

However, I do make descriptions
of these contributions
available. You can find them in the 00INDEX and README

files at:

ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/contrib

Consult the 00INDEX file in the contrib/ directory for a list of the available contributions and consult README there for information on how to obtain them.

2.3 Why isn't there an AT&T SVR4 port?

I haven't produced an AT&T SVR4 port because I haven't seen a UNIX dialect that is strictly limited to the AT&T System V, Release 4 source code. Every one I have seen is a derivative with vendor additions.

The vendor additions are significant to lsof because they affect the internal kernel structures with which lsof does business. While some vendor derivatives of SVR4 are similar, each one I have encounted so far has been different enough from its siblings to require special source code.

If you're interested in an SVR4 version of lsof, here are some existing ports you might consider:

DC/OSx (This obsolete port is only available upon special request.)
Reliant UNIX (This obsolete port is only available upon special request.)
SCO|Caldera UnixWare (This is the most likely choice.)
Solaris

2.4 Why isn't there an SGI IRIX port?

Lsof support for IRIX was terminated at lsof revision 4.36, because it had become increasingly difficult for me to obtain information on the IRIX kernel structures lsof needs to access.

At IRIX 6.5 I decided the obstacles were too large for me to overcome, and I stopped supporting lsof on IRIX. I have sources to the last revision of lsof (4.36) for IRIX, but that version of lsof does not work on IRIX 6.5 and is vulnerable to the standard I/O descriptor attack. (See the "Is lsof vulnerable to the standard I/O descriptor attack?" Q&A for more information.) Contact me to discuss obtaining those sources.

If you wish to pursue the issue, don't contact me, contact
SGI. This case was opened with SGI on the subject:

Case ID: 0982584

Category: Unix
Priority: 30-Moderate Impact

Problem Summary:
kernel structure header files needed for continued lsof
support

Problem Description:
Email In 07/17/98 19:09:23

2.5 Why does lsof's Configure script report "WARNING: unsupported
dialect or version"?

Lsof's Configure script issues this message when it encounters
a dialect or its version that lsof once supported, but no
longer does. Usually I drop support for a dialect or version
when I can no longer test lsof on it.

However, it's worth trying to compile and use lsof. Be sure to
run the test suite. (See the answer to the "Is there a test
suite? question for information on the test suite.)

If you have problems with an unsupported dialect or version,
contact me via e-mail at <abe@purdue.edu> and I may be able to help.
Make sure "lsof" appears in the "Subject:" line so my e-mail filter
won't classify your letter as Spam.

3.0 Lsof Problems

3.1 Configuration Problems

3.1.1 Why
can't Configure determine the UNIX dialect version?

The lsof Configure script uses UNIX shell commands, often in a
command pipeline, to determine the UNIX dialect version.
(Consult the dialect stanza in Configure to determine which
commands are used.) If Configure can't determine the dialect
version, probably one of the commands is not behaving as
Configure expects.

Symptoms of the failure include Configure warning messages and

incorrect version definitions in the Makefile CFLAGS.

If you suspect that the lsof Configure script is failing to determine the dialect version correctly, try running the commands from Configure stanza one at a time. That will usually reveal the source of the problem. Be particularly mindful that the PATH environment variable can cause commands to be executed from non-standard directories.

If you can't determine the source of the problem, there is a work-around. You can supply the UNIX dialect version in the LSOF_VSTR environment variable.
Use Configure as a guide to forming what it expects in LSOF_VSTR. There is also some information on LSOF_VSTR in the 00XCONFIG documentation file of the lsof distribution.

3.2 Compilation Problems

3.2.1 Why does the compiler complain about missing header files?

When you use make to build lsof, the compiler may complain that it can't find header files -- e.g.,

```
$ make
(cd lib; make DEBUG="-O" CFGF="-DAIXA=0 -DAIXV=4330 \
-DLSOF_VSTR=\"4.3.3.0\"")
gcc  -DAIXA=0 -DAIXV=4330 -DLSOF_VSTR="4.3.3.0" -O \
-c ckkv.c
In file included from ckkv.c:33: ../machine.h:70: \
sys/types.h: A file or directory in the path name \
does not exist. \
```

That type of complaint doesn't represent an lsof problem. It represents a problem with a missing system header file that probably should be found in /usr/include or in the system source tree.

As a first step try using find(1) to locate the problem header file. If it's a system header file and can't be found, here are some possible causes:

1. The file set, RPM or package containing the header files has not been installed. Instructions for doing that are specific to the UNIX dialect and beyond the scope of this document.

2. If the compiler is gcc, the private gcc header files:

* May not have been installed;

* May have been installed incorrectly;

* May not have been updated properly after the last compiler or system update;

* Ones from a previous installation may not have been removed.

A path leading to the gcc private header files can be found with `gcc -v`. Consult the gcc documentation for instructions on proper installation of the private gcc header files.

3. On some dialects -- e.g., FreeBSD, NetBSD, OpenBSD -- lsof may need to use header files that are located in the system source tree -- /sys or /usr/src/sys, for example. Make sure the system source tree has been installed.

3.2.2 Why does gcc complain about the contents of header files distributed by the system's vendor?

When you use make to build lsof and gcc to compile it, gcc may complain that it finds errors in system header files -- e.g.,

```
$ make
(cd lib; make DEBUG="-O" CFGF="-Dsolaris=80000 \
 -DHASPR_GWINDOWS -m64 -DHASIPv6 -DHAS_VSOCK \
 -DLSOF_VSTR=\"5.8\"")
 gcc -Dsolaris=80000  -DHASPR_GWINDOWS -m64 -DHASIPv6 \
 -DHAS_VSOCK -DLSOF_VSTR="5.8"  -O  -c  dvch.c
In file included from /usr/include/sys/proc.h:31, \
      from /homes/abe/gnu/gcc-3.2.1/lib/gcc-lib/sparcv9-sun-solaris2/ \
 3.2.1/include/sys/user.h:267, from /usr/include/kvm.h:13, \
 from ../dlsof.h:53, from ../lsof.h:172, from dvch.c:43: \
 /homes/abe/gnu/gcc-3.2.1/lib/gcc-lib/sparcv9-sun-solaris2/\
  3.2.1/include/sys/task.h:59: parse error before "uint_t"
```

Errors like the above are most likely not problems in the system's header files, but in the private copies of them that were created when gcc was made or installed. Note

the presense of
"../gcc-3.2.1/lib/gcc-lib/sparcv9-sun-solaris2/3.2.1/include/..."
in the paths for user.h and task.h. It indicates both
header files are gcc-specific.

To solve errors like this requires comparing the header
files in the vendor's /usr/include tree to the gcc-specific
ones in gcc's private gcc-lib/.../include tree. It may be
necessary to regenerate gcc-specific header files, correct
them or remove them. See the gcc distribution for the
appropriate tools.

A possible temporary work-around is to direct gcc to use
the vendor's header files instead of its temporary ones by
declaring -I/usr/include in the compilation flags.

3.2.3 Other header file problems

Don't overlook any vendor tools that might validate the
vendor header files installed on the system -- e.g., the
Solaris pkgchk tool can be used to check the header files
that were installed from the SUNWhea package.

For
other header file problems contact me at <abe@purdue.edu>.
Please follow the reporting guidelines in the "How do I
report an lsof bug?" section of this FAQ.

3.3 Why doesn't lsof report full path names?

Lsof reports the full path name when it is specified as a
search argument for open files that match the argument.
However, if the argument is a file system mounted-on
directory, and lsof finds additional path name components
from the kernel name cache, it will report them.

Lsof reports path name for file system types that have path
name lookup features -- e.g., some versions of AdvFS for
Digital and Tru64 UNIX. The Linux /proc-based lsof reports
full path names, because the Linux /proc file system provides
them. Lsof on recent builds of Solaris 10 also report full
path names, because those Solaris kernels record the full path
name in the vnode structure.

Otherwise, lsof uses the kernel name cache, where it exists
and can be accessed, and reports some or
all path name
components (e.g., the sys and proc.h components of

/usr/include/sys/proc.h) for these dialects:

Apple Darwin
DC/OSx
FreeBSD
HP-UX, /dev/kmem and PSTAT based
Linux, /dev/kmem-based
NetBSD
NEXTSTEP
OpenBSD
OPENSTEP
Reliant UNIX
SCO OpenServer
SCO|Caldera UnixWare
Solaris 2.x, 7, 8 and 9 (except for some VxFS versions;
see the "Why doesn't Solaris
lsof report VxFS path name
components?" section for more
information)
Solaris 10 (early builds) Tru64 UNIX

As far as I can determine, AFS path lookups don't share in kernel name cache operations, so lsof can't identify open AFS path name components. Apparently Solaris VxFS versions 4 and above don't share in kernel name cache operations, either, so lsof can't display path name components for those open files.

Since the size of the kernel name cache is limited and the cache is in constant flux, it does not always contain the names of all components in an open file's path; sometimes it contains none of them.

Lsof reports the file system directory name and whatever components of the file's path it finds in the cache, starting with the last component and working backwards through the directories that contain it. If lsof finds no path components, lsof reports the file system device name instead.

When lsof does report some path components in the NAME column, it prefixes them with the file system directory name, followed by " -- ", followed by the components -- e.g., /usr -- sys/path.h for /usr/include/sys/path.h. The " -- " is omitted when lsof finds all the path name components of a file's name.

The PSTAT-based HP-UX lsof relies on kernel name cache contents, too, even though its information comes to lsof

via pstat() function calls. Consequently, PSTAT-based HP-UX lsof won't always report full paths, but may use the " -- " partial path name notation, or may occasionally report no path name at all but just the file system mounted-on directory
and device names.

Lsof can't obtain path name components from the kernel name caches of the following dialects:

AIX

Only the Linux kernel records full path names in the structures it maintains about open files; instead, most kernels convert path names to device and node number doublets and use them for subsequent file references once files have been opened.

To convert the device and node number doublet into a complete path name, lsof would have to start at the root node (root directory) of the file system on which the node resides, and search every branch for the node, building possible path names along the way. That would be a time consuming operation and require access to the raw disk device (usually implying setuid-root permission).

If the prospect of all that local disk activity doesn't concern you, think about the cost when the device is NFS-mounted.

Try using the file system mount point and node number lsof reports as parameters to find
-- e.g.,

```
$ find <mount_point> -inum <node_number> -print
```

and you may get an appreciation of what a file system directory tree search would cost.

3.3.1 Why do lsof -r reports show different path names?

When you run lsof with its repeat (``-r'') option, you may notice that the extent to which it reports path names for the same files may vary from cycle to cycle. That happens because other processes are making kernel calls affecting the cache and causing entries to be removed from and added to it.

3.3.2 Why does lsof report the wrong path names?

Under some circumstances lsof may report an incorrect path name component, especially for files in a rapidly changing directory like /tmp.

In a rapidly changing directory, like /tmp, if the kernel doesn't clear the cache entry when it removes a file, a new file may be given the same keys and lead lsof to believe that the old cache entry with the same keys belongs to the new file.

Lsof tries to avoid this error by purging duplicate entries from its copy of the kernel name cache when they have the same device and inode number, but different names.

This error is less likely to occur in UNIX dialects where the keys to the name cache are node address and possibly a capability ID. The Apple Darwin, Digital UNIX, FreeBSD, HP-UX, NEXTSTEP, OPENSTEP, Solaris, Tru64 UNIX, and UnixWare dialects use node address. Apple Darwin, FreeBSD, NetBSD, OpenBSD, Tru64 UNIX, and also use a capability ID to further identify name cache entries.

3.3.3 Why doesn't lsof report path names for unlinked (rm'd) files?

When lsof gets path name components from the kernel's name cache, it does not report the path names of a file that has been unlinked from its parent directory -- e.g., deleted via rm, or the unlink() system call -- even when some process may still hold the file open; lsof reports only the file system's mounted-on directory and device. That's because path name components are removed from the kernel name cache when the file is unlinked.

Unlinked open files are sometimes used by applications for temporary, but invisible storage (i.e., ls won't show them, and no other process can open them.) However, they may occasionally consume disk space to excess and cause concern for a system administrator, who will be unable to locate them with find, ls, du, or other tools that rely on finding files by examining the directory tree.

By using lsof's +L option you can see the link count of open files -- in the NLINK column. An unlinked file will have an NLINK value of zero. By using the option +L1 you

can tell lsof to display only files whose link count is
less than one (i.e., zero).

There are some UNIX dialect-specific exceptions to lsof's
inability to report unlinked path names. They are described in
the answer to the "When will lsof report path names for deleted
files?" question.

3.3.4 Why doesn't lsof report the "correct" hard linked file path
name?

When lsof
reports a rightmost path name component for a
file with hard links, the component may come from the
kernel's name cache. Since the key which connects an open
file to the kernel name cache may be the same for each
differently named hard link, lsof may report only one name
for all open hard-linked files. Sometimes that will be
"correct" in the eye of the beholder; sometimes it will
not. Remember, the file identification keys significant
to the kernel are the device and node numbers, and they're
the same for all the hard linked names.

3.3.5 When will lsof report path names for deleted files?

Lsof will report path names for deleted files for two
dialects: Linux and later builds of Solaris 10.

Deleted Linux path names are reported by default and have
"(deleted)" at their ends.

The display of Solaris 10 deleted path names may be selected
with the -X option. When selected they are also reported with
"(deleted)" at their ends.

3.4 Why is lsof so slow?

Lsof may
appear to be slow if network address to host name
resolution is slow. This can happen, for example, when the
name server is unreachable, or when a Solaris PPP cache daemon
is malfunctioning.

To see if name lookup is causing lsof to be slow, turn it off
with the ``-n" option.

Port service name lookup or portmap registration lookup may
also be causes of slow-down. To suppress port service name

lookup, specify the ``-P'' option.

Lsof doesn't usually make direct portmap calls -- only when +M is specified, or when HASPMAPENABLED is defined during lsof construction. (The lsof help panel, produced with `lsof -h` will display the default portmap registration reporting state.) The quickest first step in checking if lsof is slow because of the portmapper is to use lsof's ``-M'' option.

Lsof may be slow if UID to login name lookups are slow. Suppress them with ``-l''.

On dialects where lsof uses the kernel name cache, try disabling its use with ``-C''. (You can tell if lsof uses the kernel name cache by looking for ``-C'' in lsof's ``-h'' output.) Of course, disabling kernel name cache use will mean that lsof won't report full or partial path names, just file system and character device names.

If you're just interested in the open files of one process, try using the ``-p <Process-ID>'' option to limit lsof to that process. (The ``-p'' option may also be followed with a list of Process-IDs.)

If you're interested in including or excluding certain commands, try lsof's "-c[^]cmd" option.

If you're interested in certain Internet TCP and UDP states (e.g., ESTABLISHED) or in excluding some (e.g., CLOSE_WAIT), try lsof's "-s p:s" option, available where shown on the lsof help output, obtained with -h or -?. More information on it may be found in the answer to the "How are protocol state name exclusion and inclusion used?" question.

Your UNIX dialect may not support "-s p:s" and its associated performance improvments to Internet-only file processing. You can find more information on those topics in the answer to the "Why doesn't my dialect support state name exclusion and inclusion?" question.

Older AIX lsof may be slow to start because of its oslevel identity comparison. (Newer AIX lsof uses uname(2).) See the "Why does AIX lsof start so slowly?" and "Why does lsof warn "compiled for x ... y; this is z.?" sections for more information.

3.5 Why doesn't lsof's setgid or setuid permission work?

If you install lsof on an NFS file system that has been mounted with the nosuid option, lsof may not be able to use the setgid or setuid permission you give it, complaining it can't open the kernel memory device -- e.g., /dev/kmem.

The only solution is to install lsof on a file system that doesn't inhibit setgid or setuid permission.

3.6 Does lsof have security problems?

I don't think so. However, lsof does usually start with setgid permission, and sometimes with setuid-root permission. Any program
that has setgid or setuid-root permission,
should always be regarded with suspicion.

Lsof drops setgid power, holding it only while it opens access to kernel memory devices (e.g., /dev/kmem, /dev/mem, /dev/swap). That allows lsof to bypass the weaker security of access(2) in favor of the stronger checks the kernel makes when it examines the right of the lsof process to open files declared with -k and -m. Lsof also restricts some device cache file naming options when it senses the process has setuid-root power.

On a few dialects lsof requires setuid-root permission during its full execution in order to access files in the /proc file system. These dialects include:

DC/OSx 1.1 for Pyramid systems
Reliant UNIX 5.4[34] for Pyramid systems

When lsof runs with setuid-root permission it severely restricts all file accesses it might be asked to make with its options.

The device cache file (typically .lsof_hostname in the home directory of the real user ID that
executes lsof) has 0600
modes. (The suffix, hostname, is the first component of the host's name returned by gethostname(2).) However, even when lsof runs setuid-root, it makes sure the file's ownerships are changed to that of the real user and group. In addition, lsof checks the file carefully before using it (See the question "How do I disable the device cache file feature or alter it's behavior?" for a description of

the checks.); discards the file if it fails the scrutiny;
complains about the condition of the file; then rebuilds
the file.

See the 00DCACHE file of the lsof distribution for more
information about device cache file handling and the risks
associated with the file.

3.7 Will lsof show remote hosts using files via NFS?

No. Remember, lsof displays open files for the processes
of the host on which it runs. If the host on which lsof
is running is an NFS server, the remote NFS client processes
that are accessing files on the server leave no process
records
on the server for lsof to examine.

3.8 Why doesn't lsof report locks held on NFS files?

Generally lock information held by local processes on remote
NFS files is not recorded by the UNIX dialect kernel. Hence,
lsof can't report it.

One exception is some patch levels of Solaris 2.3, and all
versions of Solaris 2.4 and above. Lsof for those dialects
does report on locks held by local processes on remotely
mounted NFS files.

3.8.1 Why does lsof report a one byte lock on byte zero as a full
file lock?

When a process has a lock of length one, starting at byte
zero, lsof can't distinguish it from a full file lock.
That's because most UNIX dialects represent both locks the
same way in their file lock (flock or eflock) structures.

3.9 Why does lsof report different values for open files on the
same file system (the automounter phenomenon)?

On UNIX dialects where file systems may be mounted by an
automounter with the ``direct'' type, lsof may sometimes
report difference
DEVICE, SIZE/OFF, INODE and NAME values
when asked to report files open on the file system.

This happens because some files open on the file system --
e.g., the current directory of a shell that changed its
directory to the file system as the file system's first

reference -- may be characterized in the kernel with
temporary automounter node information. The cd doesn't
cause the file system to be mounted.

A subsequent reference to the file system -- e.g., an ls
of any place in it -- will cause the file system to be
mounted. Processes with files open to the mounted file
system are characterized in the kernel with data that
reflects the mounted file system's parameters.

Unfortunately some kernels (e.g., some versions of Solaris
2.x) don't revisit the process that did only a change-directory
for the purpose of updating the data associated with the
open directory file. The file continues to be characterized
with temporary automounter information until it does
another
directory change, even a trivial ``cd .''.

Lsof will report on both reference types, when supplied
the file system name as an argument, but the data lsof
reports will reflect what it finds in the kernel. For the
different types lsof will display different data, including
different major and minor device numbers in the DEVICE
column, different lengths in the SIZE/OFF column, different
node numbers in the INODE column, and slightly different
file system names in the NAME column.

In contrast, fuser, where available, can only report on
one reference type when supplied the file system name as
an argument. Usually it will report on the one that is
associated with the mounted file system information. If
the only reference type is the temporary automounter one,
fuser will often be silent about it.

3.10 Why don't lsof and netstat output match?

Lsof and netstat output don't match because lsof reports
the network information it finds in open file system objects
--
e.g., socket files -- while netstat often gets its
information from separate kernel tables.

The information available to netstat may describe network
activities never or no longer associated with open files,
but necessary for proper network state machine operation.

For example, a TCP connection in the FIN_WAIT_[12] state
may no longer have an associated open file, because the

connection has been closed at the application layer and is
now being closed at the TCP/IP protocol layer.

3.10.1 Why can't lsof find accesses to some TCP and UDP ports?

Lsof stands for LiSt Open Files. If there is no open file
connected to a TCP or UDP port, lsof won't find it. That's
the most common reason why lsof doesn't find a port netstat
might report open.

One reason I've found on some UNIX dialects is that their
kernels set aside TCP and UDP ports for communicating with
support activities, running in application layer servers
-- the automounter daemons, and the NFS biod and nfsd
daemons
are examples. Netstat may report the ports are in
use, but lsof doesn't.

Another reason is that netstat may also be able to report
a port is open on a particular dialect, because it uses a
source of data different from what lsof uses -- e.g.,
netstat might examine kernel tables or use streams messages
to MIB2, while lsof relies on the information it finds in
open file structures and their descendants.

Sometimes it's possible to search the data netstat and lsof
use. For example, on Linux /proc/tcp and /proc/udp can be
examined. There might an entry there for a particular
protocol and port, but if the line on which the port appears
doesn't have an inode number that matches an inode number
of an open file, lsof won't be able to identify the process
using the port.

This is a tough question to which there is no easy answer.

3.11 Why does lsof update the device cache file?

At the end of the lsof output you may see the message:

```
    lsof: WARNING: /Homes/abe/.lsof_vic
was updated.
```

In this message /Homes/abe/.lsof_vic is the path to the
private device cache file for login abe. (See 00DCACHE.)

Lsof issues this message when it finds it necessary to
recheck the system device directory (e.g., /dev or /devices)
and rebuild the device cache file during the open file

scan. Lsof may need to do these things it finds that a device directory node has changed, or if it cannot find a device in the cache.

3.12 Why doesn't lsof report state for UDP socket files?

Lsof reports UDP TPI connection state -- TS_IDLE (Idle), TS_BOUND (Bound), etc. -- for some, but not all dialects. TPI state is stream-based TCP/IP information that isn't available in many dialects.

A fairly weak general rule is if netstat(1) reports UDP TPI state, lsof may be able to report it, too. But don't be surprised if lsof fails to report UDP TPI state for your dialect. Other factors influence lsof's ability to report UDP TPI state, including the availability of state number
data in kernel structures, and state number to state name conversion data.

3.13 I am editing a file with vi; why doesn't lsof find the file?

Classic implementations of vi usually don't keep open the file being edited. (Newer ones may do so in order to maintain an advisory lock.) Instead classic vi opens the file, makes a temporary copy (usually in /tmp or /usr/tmp), and does its work in that file. When you save the file being edited from a classic vi implementation, it reopens and rewrites the file.

During a classic vi session, except for the brief periods when vi is reading or rewriting the file, lsof won't find an open reference to the file from the vi process, because there is none.

3.14 Why doesn't lsof report TCP/TPI window and queue sizes for my dialect?

Lsof only reports TCP/TPI window sizes for Solaris, because only its netstat reports them. The intent of providing TCP/TPI information in lsof NAME column output is to make it easier to match netstat
output to lsof output.

In general lsof only reports queue sizes for both TCP and UDP (TPI) connections on BSD-derived UNIX dialects, where both sets of values appear in kernel socket queue structures. SYSV-derived UNIX dialects whose TCP/IP implementations are based on streams generally provide only TCP queue sizes,

not UDP (TPI) ones.

While you may find that netstat on some SYSV-derived UNIX dialects with streams TCP/IP may report UDP (TPI) queue sizes, you will probably also find that the sizes are always zero -- netstat supplies a constant zero for UDP (TPI) queue sizes to make its headers align the same for TCP and UDP (TPI) connections. Solaris seems to get it right -- i.e., its netstat does not report UDP (TPI) queue sizes.

When in doubt, I chose to avoid reporting UDP (TPI) queue sizes for UNIX dialects whose netstat-reported values I knew to be a constant zero or whose origin I couldn't determine. OSR is a dialect in this category.

3.14.1 Why doesn't lsof report socket options, socket states, and TCP flags and values for my dialect?

The lsof -T argument, 'f', that selects the reporting of socket options, socket states and TCP flags was implemented at lsof revision 4.71 for the following UNIX dialects, providing the indicated information:

AIX 4.3.2 and 5.1 and above
All socket options and values, socket states, and TCP flags and values described in lsof(8) are reported.

Apple Darwin 7.2 and above
All socket options and values, socket states, and TCP flags and values described in lsof(8) are reported.

Digital UNIX and Tru64 UNIX 4.0
All socket options and values, socket states, and TCP flags and values described in lsof(8) are reported.

FreeBSD 4.9 and above
All socket options and values, socket states, and TCP flags and values described in lsof(8) are reported.

HP-UX 11.00 (/dev/kmem-based lsof)
All socket options and values are reported. No socket states are reported. Only the TF_NODELAY TCP flag and the TF_MSS value are reported.

HP-UX 11.11 and iiiv2 (PSTAT-based lsof)
All socket options and values, and socket states are reported. No TCP flags or values are reported.

Linux
No socket options and values, socket states, or TCP flags and values are reported. The support for "-Tf" could not be added to Linux, because socket options,

socket states, and TCP flags and values are not
available via the /proc file system.

NetBSD 1.6G and above

All socket options and values, socket states, and TCP
flags and values described in lsof(8) are reported.

OpenBSD 3.4 and above

All socket options and values, socket states, and TCP
flags and values described in lsof(8) are reported.

OPENSTEP 4.2

All socket options and values, socket states, and TCP
flags and values described in lsof(8) are reported.

OpenUNIX 8

All socket options and values, socket states, and TCP
flags and values described in lsof(8) are reported.

SCO OpenServer Release 5.0.6

All socket options and values, socket states, and TCP
flags and values described in lsof(8) are reported.

Solaris 2.6, 8 and above

The socket option display is limited to BROADCAST,
DEBUG, DGRAM_ERRIND, DONTROUTE and OOBINLINE. Socket
values are limited to KEEPALIVE and LINGER. No socket
states are reported. The TCP DELACK, NODELAY and
SENTFIN flags are reported. The TCP MSS value is
reported.

UnixWare 7.1.[134]

All socket options and values, socket states, and TCP
flags and values described in lsof(8) are reported.

3.14.2 Why doesn't lsof report the partial listen queue connection
count for my dialect?

The reporting of partial listen queue connections was added to
-Tf processing at lsof revision 4.76. Currently it is reported
for these dialects:

AIX 4.3.2

This dialect is no longer supported, so no attempt
was made to add partial listen queue length support
for it.

AIX 5.1 and above

Partial listen
queue information is available.

Apple Darwin 7.2 and above

Partial listen queue information is available.

Digital UNIX 4.0

This dialect is no longer supported, so no attempt
was made to add partial listen queue length support

for it.
FreeBSD 4.9 and above
Partial listen queue information is available.
HP-UX 11.00 (/dev/kmem-based lsof)
No partial listen queue information is available.
HP-UX 11.11 and iiiv2 (PSTAT-based lsof)
No partial listen queue information is available.
Linux
No partial listen queue information is available.
NetBSD 1.6G and above
Partial listen queue information is available.
OpenBSD 3.4 and above
Partial listen queue information is available.
OPENSTEP 4.2
Partial listen queue information is available.
OpenUNIX 8
This dialect is no longer supported, so no attempt
was made to add partial listen queue length support
for it.
SCO OpenServer Release 5.0.6
No partial listen queue information
is available.
Solaris 2.6, 8 and above
Partial listen queue information is available.
Tru64 UNIX 5.0
This dialect is no longer supported, so no attempt
was made to add partial listen queue length support
for it.
Tru64 UNIX 5.1
Partial listen queue information is available.
UnixWare 7.1.[134]
Partial listen queue information is available.

3.15 What does "no more information" in the NAME column mean?

When lsof can find no successor structures -- a gnode, inode, socket, or vnode -- connected to the file structure of an open descriptor of a process, it reports "no more information" in the NAME column. The TYPE, DEVICE, SIZE/OFF, and INODE columns will be blank.

Because the file structure is supposed to contain a pointer to the next structure of a file's processing support, if the pointer is NUL, lsof can go no further.

Some UNIX dialects have file structures for system processes -- e.g., the sched process -- that have no successor

structure
pointers. The "no more information" NAME will
commonly appear for these processes in lsof output.

It may also be the case that lsof has read the file structure
while it is being assembled and before a successor structure
pointer value has been set. The "no more information" NAME
will again result.

Unless lsof output is filled with "no more information"
NAME column messages, the appearance of a few should be no
cause for alarm.

3.16 Why doesn't lsof find a process that ps finds?

If lsof fails to display open files for a process that ps
indicates exists, there may be several reasons for the
difference.

The process may be a "zombie" for which ps displays the
"(defunct)" state. In that case, the process has exited
and has no open file information lsof can display. It does
still have a process structure, sufficient for the needs
of ps.

Another possible explanation is that kernel tables and
structures may have been changing when lsof looked for the
process,
making lsof unable to find all relevant process
structures. Try repeating the lsof request.

3.17 Why doesn't -V report a search failure?

The usual reason that -V won't report a search failure is
that lsof located the search item, but was prevented from
listing it by an option that doesn't participate in search
failure reporting.

For example, this lsof invocation:

```
$ lsof -V -i TCP@foobar -a -d 999
```

won't report it can't find the Internet address TCP@foobar,
even if there is an open file connected to that address,
unless the open file also has a file descriptor number of
999 (the ``-a -d 999'' options).

Compile-time options can also affect -V results in much the

same way. For example, if HASSECURITY and HASNOSOCKSECURITY
are defined at compile time, this lsof invocation, run by a
non-root user:

```
$ lsof -V -c inetd
```

won't report that it can't find the inetd command, even if
there is a process running the inetd command, because the
HASSECURITY and HASNOSOCKSECURITY
options prevent the
listing of all but the socket files of another user, and
no socket file selector (e.g., "-i") was specified.

3.18 Portmap problems

3.18.1 Why isn't a name displayed for the portmap registration?

When portmap registration reporting is enabled, any time
there is a registration for a local TCP or UDP port, lsof
displays it in square brackets, following the port number
or service name -- e.g., ``:1234[name]" or ``:name[100083]".

The TCP or UDP port number or service number (what follows
the `:') is displayed under the control of the lsof -P
option. The registration identity is held by the portmapper
and may be a name or a number, depending on how the
registration's owner declared it. Lsof reports what the
port map holds and cannot derive a registration name from
a registration number.

Lsof can be compiled with registration reporting enabled
or disabled by default, under the control of the HASPMAPENABLED
#define (usually in machine.h).
The lsof help panel (`lsof
-h`) will show the default. Lsof is distributed with
reporting disabled by default.

3.18.2 How can I display only portmap registrations?

Lsof doesn't have an option that will display only TCP or
UDP ports with portmap registrations. The +M option only
enables the reporting of registration information when
Internet socket files are displayed; +M doesn't select
the displaying of Internet socket files -- the -i option
does that.

This simple lsof pipe to grep will do the job:

```
$ lsof -i +M | grep "\["
```

This works because -i selects Internet socket files, +M enables portmap registration reporting, and only output lines with opening square brackets will have registrations.

When portmap registration reporting is enabled by default, because the lsof builder constructed it that way, +M is not necessary. (The lsof help panel, produced with `lsof -h` will display the default portmapper registration reporting state.) However, specifying
+M when reporting
is already enabled is acceptable, as is specifying -M when reporting is already disabled.

Digression: lsof will accept `+' or `-' as a prefix to most options. (That isn't documented in the man page or help panel to reduce confusion and complexity.) The -i option is as acceptable as +i, so the above example could be written a little more tersely as:

```
$ lsof +Mi | grep "\["
```

But be careful to use the ``Mi'' ordering, since ``iM'' implies M is an address argument to `i'.

3.18.3 Why doesn't lsof report portmap registrations for some ports?

Lsof reports portmap registrations for local TCP and UDP ports only. It identifies local ports this way:

* The port appears in the local address section of the kernel structure that contains it.

* The port appears in the foreign address section of a kernel structure whose local and foreign Internet addresses are the same.

* The port appears in the foreign address section of a kernel address structure
whose Internet address is
INADDR_LOOPBACK (127.0.0.1).

Following these rules, lsof ignores foreign portmapped ports. That's done for reasons of efficiency and possible security prohibitions. Contacting all remote portmappers could take a long time and be blocked by network difficulties

(i.e., be inefficient). Many firewalls block portmapper access for security reasons.

Lsof may occasionally ignore portmap registration information for a legitimate local port by virtue of its local port rules. This can happen when a port appears in the foreign part of its kernel structure and the local and foreign Internet addresses don't match (perhaps because they're on different interfaces), and the foreign Internet address isn't INADDR_LOOPBACK (127.0.0.1).

3.18.4 Why doesn't lsof report portmap registrations for some Solaris versions?

In some versions of Solaris -- 9 and 10 are known to exhibit this problem -- lsof is unable to display portmap registrations.

This portmap registration reporting failure occurs when the Solaris netconfig field (in /etc or etc/inet) has its first two non-comment lines enabling tcp6 and udp6. When netconfig is configured in that fashion, lsof's attempt to read the portmap via an RPC function fails.

I don't have an explanation for the failure, but this comment in the netconfig(4) man page appears to have some bearing on the problem:

```
# The following two entries starting with udp6 and tcp6 are
# meant to be used for IPv6. If you have Ipv6 enabled on your
# machine then you can uncomment these two lines to enable
# RPC and NFS to use the Ipv6 stack.
...
#udp6  tpi_clts      v  inet6  udp  /dev/udp6  -
#tcp6  tpi_cots_ord  v  inet6  tcp  /dev/tcp6  - "
```

My interpretation of that comment is that there is a different RPC interface to the portmap when IPv6 is enabled. However, I can't find any documentation on it in the RPC man pages. If anyone has information on it, please send it to me at <abe@purdue> and put "lsof Solaris portmap" in the subject line.

A work-around may be to move the ucp6 and tcp6 lines after the udp and tcxp lines in netconfig. I don't know if that change has any unacceptable consequences, but it works for me on my Solaris 9 test system, and I have a report that it also works

on Solaris 10.

3.19 Why is `lsof | wc` bigger than my system's open file limit?

There is a strong temptation to count open files by piping lsof output to wc. If your purpose is to compare the number you get to some Unix system parameter that defines the number of open files your system can have, resist the temptation.

One reason is that lsof reports a number of "files" that don't occupy Unix file table space -- current working directories, root directories, jail directories, text files, library files, memory mapped files are some. Another reason is that lsof can report a file shared by more than one process that itself occupies only
one file table slot.

If you want to know the number of open files that occupy file table slots, use the +ff option and process the lsof output's FILE_ADDR column information with standard Unix tools like cut, grep, sed, and sort.

You might also consider using use lsof's field output with +ff, selecting the file struct address with -FF, and processing the output with an AWK or Perl script. See the list_fields.awk, list_fields.perl, and shared.perl5 scripts in the scripts/ subdirectory of the lsof distribution for hints on file struct post-processing filters.

3.20 Why doesn't lsof report file offset (position)?

Lsof won't report a file offset (position) value if the -s option (without parameters) has been specified, or if the dialect doesn't support the displaying of file offset (position). (Note that on selected dialects the help output, obtained with -h or -?, may show that the -s option can also be supplied the "p:s" parameters; for more information on that addition,
see the answer to the "How are protocol state name exclusion and inclusion used?" question.)

That lsof is reporting only file size is indicated by the fact that the appropriate column header says SIZE instead of SIZE/OFF.

If lsof doesn't support the displaying of file offset

(position) -- e.g., for Linux /proc-based lsof -- the -h
or -? output panel won't list the -o option.

Sometimes the availability of file offset information
depends on the dialect's kernel. This is particularly true
for socket file offsets.

Maintenance of offsets for pseudo-terminal devices varies
by UNIX dialect and is related to how the dialect kernel
implements pseudo-terminal support. Kernels like AIX, for
example, that short-circuit the transfer of data between
socket and pseudo devices to reduce TCP/IP daemon interrupt
rates won't advance offsets in the TCP/IP daemon socket
files. Instead they will advance offsets in the open
standard I/O files of the shell child precess where the
pseudo-terminal
devices are used.

When in doubt about the behavior of lsof in reporting file
offset information, do some carefully measured experiments,
consult the lsof sources, or contact me at <abe@purdue.edu>
to discuss the matter. Please follow the reporting guidelines
in the "How do I report an lsof bug?" section of this FAQ.

3.20.1 What does lsof report for size when the file doesn't really have
one?

When a file has no true size -- e.g., it's a socket, a
FIFO, or a pipe -- lsof tries to report the information it
finds in the kernel that describes the contents of associated
kernel buffers.

Thus, for example, size for most TCP/IP files is socket
buffer size. The size of the socket read buffer is reported
for read-only files; the size of the write buffer for
write-only files; and the sum of the buffers sizes for
read-write files.

3.21 Problems with path name arguments

3.21.1 How do I ask lsof to search a file system?

You can ask lsof to search for all open
files on a file
system by specifying its mounted path name as an lsof
argument -- e.g.,

```
$ lsof /
```

Output of the mount command will show file system mounted path names. It will also show the mounted-on device path for the file system.

If the mounted-on device is a block device (the permission field in output of `ls -l <device>` starts with a `b/), you can specify it's name, too -- e.g.,

```
$ lsof /dev/sd0a
```

If the mounted-on device isn't a block device -- for example, some UNIX dialects call a CD-ROM device a character device (ls output starts with a `c') -- you can force lsof to assume that the specified device names a file system with the +f option -- e.g.,

```
$ lsof +f -- /dev/sd0a
```

(Note: you must use ``--'' after +f or -f if a file name follows immediately, because +f and -f can be followed by characters that specify flag output selections.)

When you use +f and lsof can't match the device to a file system, lsof will issue a complaint.

The +f option may be used in some dialects to ask lsof to search for an NFS file system by its server name and server mount point. If the mount application reports an NFS file system mounted-on value that way, then this sample lsof request should work.

```
$ lsof +f -- fleet:/home/fleet/u5
```

Finally, you can use -f if you don't want a mounted file system path name to be considered a request to report all open files on the file system. This is useful when you want to know if anyone is using the file system's mounted path name. This example directs lsof to report on open access to the `/' directory, including when it's being used as a current working or root directory.

```
$ lsof -f -- /
```

The lsof -f option performs the same function as -f does in some fuser implementations. However, since the lsof -c option was chosen for another purpose before the `f' option

was added to lsof, +f was selected as the analogue to the
fuser -c option. (Sorry for the potential confusion.)

3.21.2 Why
doesn't lsof find all the open files in a file system?

Lsof may not find all the open files in a file system for
several reasons.

First, some processes with files open on the file system
may have been changing status when lsof examined the process
table, and lsof "missed" them. Remember, the kernel changes
much faster than lsof can respond to the changes.

Second, be sure you have specified the file system correctly.
Perhaps you specified a file instead. You can use lsof's
-V option to have lsof report in detail on what it couldn't
find. Make sure the report for the file system you specified
says "file system." Here's some -V output:

```
$ /lsof -V /tmp ./lsof.h ./lsof
COMMAND  PID USER   FD   TYPE DEVICE SIZE/OFF  INODE NAME
lsof    2688  abe  txt   VREG 18,1,7  1428583 226641 ./lsof
lsof    2689  abe  txt   VREG 18,1,7  1428583 226641 ./lsof
lsof: no file use located: ./lsof.h
```

You can also use lsof's +f option to force it to consider
a
path name as a file system. If lsof can't find a file
system by the specified name, it will issue a complaint --
e.g.,

```
$ lsof +f -- /usr
lsof: not a file system: /usr
```

(/usr is a directory in the / file system.)

3.21.3 Why does the lsof exit code report it didn't find open files
when some files were listed?

Sometimes lsof will list some open files, yet return a
non-zero exit code, suggesting it hasn't found all the
specified files.

The first thing you should when you suspect lsof is incorrect
is to repeat the request, adding the -V option. In the
resulting report you may find that your file system
specification really wasn't a file system specification,

just a file specification.

Finally, if you specify two files or two file systems twice, lsof will credit all matches to the first of the two and believe that there were no matches for the second. It's possible to specify a single file system twice with different path names by using both its mounted directory path name and mounted-one device name.

```
$ lsof +f -V spcuna:/sysprog /sysprog
COMMAND   PID USER   FD   TYPE DEVICE SIZE/OFF  INODE NAME
ksh     11092  abe  cwd   VDIR 39,0,1     1536 226562 /sysprog
(spcuna:/sysprog)
...
lsof: no file system use located: spcuna:/sysprog
```

All matches were credited to /sysprog; none to spcuna:/sysprog.

3.21.4 Why won't lsof find all the open files in a directory?

When you give lsof a simple directory path name argument (not a file system mounted-on name), you are asking it to search for processes that have the directory open as a file, or as a process-specific directory -- e.g., root or current working directory.

If you want to list instances of open files inside the directory, you need to specify the individual path names of those files, or use the lsof +D and +d options.

See the answer to the question "Why are the +D and +d options so slow?" before you use +D or +d casually.

See the answer to the question "Why do the +D and +d options produce warning messages?" for an explanation of some process authority limitations of +D and +d.

3.21.5 Why are the +D and +d options so slow?

The +D and +d options cause lsof to build a path name search list for a specified directory. +D causes lsof to descend the directory to its furthest subdirectory, while +d restricts it to the top level. In both cases, the specified directory itself is included in the search list. In both symbolic links are ignored.

Building such a search list can take considerable time,
especially when the specified directory contains many files
and subdirectories -- lsof must call the system readlink()
and stat() functions for each file and directory. Storing
the search list can cause lsof to use more than its normal
amount of dynamic memory -- each file recorded in the search
list consumes dynamic memory for its path name, characteristics,
and search linkages. Using the list means lsof must search
it
for every open file in the system.

Building the search list for a directory specified on some
file systems can be slow -- e.g., for an NFS directory with
many files. Some file systems have special logging features
that can introduce additional delays to the building of
the search list -- e.g., NFS logging, or logging on a
Solaris UFS file system. The bottom line is that slow
search list construction may not be so much an lsof problem
as a file system problem. (Hint: if you're using Solaris
UFS logging, consider specifying the "logging,noatime"
option pair to reduce the number of atime writes to the
UFS logging queue and disk.)

A somewhat risky way to speed up lsof's building of the
search list is to use lsof's ``-O'' option. It forces lsof
to do all system calls needed to build the search list
directly, rather than in a child process. While direct
system calls are much faster, they can block in the kernel
-- e.g., when an NFS server stops responding --
stopping
lsof until the kernel operation unblocks.

As an example of the load +D can impose, consider that an
`lsof +D /` on a lightly loaded NeXT '040 cube with a 1GB
root file system disk took 4+ minutes of real time. It
also generated several hundred error messages about files
and directories the lsof process didn't have permission to
access with stat(2).

The bottom line is that +D and +d should be used cautiously.
+D is more costly than +d for deeply nested directory trees,
because of the full directory descent it causes. So use
+d where possible. And you might need to consider the
performance of the file system that holds the directory
you name with +d or +D.

In view of these warnings, when is it appropriate to use
+D or +d? Probably the most appropriate time is when you

would specify the directory's contents to lsof with a shell
globbing construct -- e.g., `lsof *`. If that's what you
need to do, `lsof +d .` is probably more efficient than
having the shell
produce a directory list, form it into an
argument vector, and pass the vector to lsof for it to
unravel.

See the answer to the question "Why do the +D and +d options
produce warning messages?" for an explanation of some
process authority limitations of +D and +d.

3.21.6 Why do the +D and +d options produce warning messages?

+D and +d option processing is limited by the authority of
the lsof process -- i.e., lsof can only examine (with
lstat(2) and stat(2)) files the owner of the process can
access.

If the ownership, group membership, or permissions of the
specified directory, file within it, or directory within
it prevents the owner of the lsof process from using lstat(2)
or stat(2) on it, lsof will issue a warning message, naming
the path and giving the system's (lstat(2's or stat(2)'s)
reason (errno explanation text) for refusing access.

As an example, assume user abc has a subdirectory in /tmp,
owned by abc and readable, writable and searchable by only
its
owner. If user def asks lsof to search for all /tmp
references with +D or +d, lsof will be unable to lstat(2)
or stat(2) anything in abc's private subdirectory, and will
issue an appropriate warning.

Lsof warnings can usually be suppressed with the -w option.
However, using -w with +D or +d means that there will be
no indication why lsof couldn't find an open reference to
a restricted directory or something contained in it.

Hint: if you need to use +D or +d and avoid authority
warnings, and if you have super-user power, su and use lsof
with +D or +d as root.

3.22 Why can't my C compiler find the rpcent structure definition?

When you try to compile lsof your compiler may complain
that the rpcent structure is undefined. The complaints
may look like this:

```
>print.c: In function `fill_portmap':
>print.c:213: dereferencing pointer to incomplete type
>...
```

The most likely cause is that someone has allowed a BIND installation to update /usr/include/netdb.h (or perhaps /usr/include/rpc/netdb.h), removing the rpcent structure definition that lsof expects to find there.

Only Solaris has an automatic work-around. (See dlsof.h in dialects/sun.). The Solaris work-around succeeds because there is another header file, <rpc/rpcent.h>, with the rpcent structure definition, and there is a Solaris C pre-processor test that can tell when the BIND <netdb.h> is in place and hence <rpc/rpcent.h> must be included.

Doubtlessly there are similar work-arounds possible in other UNIX dialects whose header files have been "touched" by BIND, but in general I recommend restoration of the vendor's <netdb.h> and any other header files BIND might have replaced. (I think BIND replaces <resolv.h>, <sys/bitypes.h>, <sys/cdefs.h> -- and maybe others.)

3.23 Why doesn't lsof report fully on file "foo" on UNIX dialect "bar?"

Lsof sometimes won't report much information on a given file, or may even report an error message in its NAME column. That's usually because the file is of a special type -- e.g., in a file system specific to the UNIX dialect -- and I haven't used a system where the file appeared during my testing.

If you encounter such a situation, send me e-mail at <abe@purdue.edu> and we may be able to devise an addition to lsof that will report on the file in question. Please follow the reporting guidelines in the "How do I report an lsof bug?" section of this FAQ. Make sure "lsof" appears in the "Subject:" line so my e-mail filter won't classify your letter as Spam.

3.24 Why do I get a complaint when I execute lsof that some library file can't be found?

On systems where the LIBPATH (or the equivalent) environment

variable is used to record the library search path in
executable files when they are built, an incorrect value
may make it impossible for the system to find the shared
libraries needed to load lsof for execution.

This may be particularly true on systems like AIX >= 4.1.4,
where the lsof
Makefile takes the precautionary step of
using the -bnolibpath loader flag to insure that the path
to the private static lsof library is not recorded in the
lsof binary. Should LIBPATH be invalid when lsof is built,
it will be recorded in the lsof binary as the default
library path search order and lead to an inability to find
libraries when lsof is executed.

So, if you get missing library complaints when you try to
execute lsof, check LIBPATH, or whatever environment variable
is used on your system to define library search order in
executable files. Use the tools at your disposal to look
at the library paths recorded in the lsof binary -- e.g.,
chatr on HP-UX, dump on AIX, ldd on Solaris.

Make sure, too, that when the correct library search path
has been recorded in the executable file, the required
library files exist at one or more of the search paths.

3.25 Why does lsof complain it can't open files?

When lsof begins execution, unless it has been asked to
report
only help or version information, typically it will
attempt to access kernel memory and symbol files -- e.g.,
/unix, /dev/kmem. Even though lsof needs only permission
to open these files for reading, read access to them might
be restricted by ownerships and permission modes.

So the first step to diagnosing lsof problems with opening
files is to use ls(1) to examine the ownerships and permission
modes of the files that lsof wants to open. You may find
that lsof needs to be installed with some type of special
ownership or permission modes to enable it to open the
necessary files for reading. See the "Installing Lsof"
section of 00README for more information.

3.26 Why does lsof warn "compiled for x ... y; this is z."?

Unless warnings are suppressed (with -w) or the kernel

identity check symbol (HASKERNIDCK) definition has been deleted, all but one lsof dialect version (exception: /proc-based Linux lsof) compare the identity of the running kernel to that of the one for which lsof was constructed. If the identities don't match, lsof issues a warning like this:

```
lsof: WARNING: compiled for Solaris release 5.7; this is 5.6.
```

Two kernel identity differences can generate this warning -- the version number and the release number.

Build and running identity differences are usually significant, because they usually indicate kernels whose structures are different -- kernel structures commonly change at dialect version releases. Since lsof reads data from the kernel in the form of structures, it is sensitive to changes in them. The general rule is that an lsof compiled for one UNIX dialect version will not work correctly when run on a different version.

There are three work-arounds: 1) use -w to suppress the warning -- and risk missing other warnings; 2) permanently disable the identity check by deleting the definition of HASKERNIDCK in the dialect's machine.h header file -- with the same risk; or 3) rebuild lsof on the system where it is to be run. (Deleting HASKERNIDCK can be done with the Customize script or by editing machine.h.)

Generally checking kernel identity is a quick operation for lsof. However, it is potentially slow under AIX, where lsof must run /usr/bin/oslevel. To speed up lsof, use -w to suppress the /usr/bin/oslevel test. See "Why does AIX lsof start so slowly?" for more information.

3.27 How can I disable the kernel identity check?

The kernel identity check is controlled by the HASKERNIDCK definition. When it is defined, most dialects (exclusion: /proc-based Linux lsof) will compare the build-time kernel identity with the run-time one.

To disable the kernel identity check, disable the HASKERNIDCK definition in the dialect's machine.h header file. The Customize script can be used to do that in its section about the kernel identity check.

Caution: while disabling the kernel identity check may
result in smaller lsof startup overhead, it comes with the
risk of
executing an lsof that may produce warning messages,
error messages, incorrect output, or no output at all.

3.28 Why don't ps(1) and lsof agree on the owner of a process?

Generally the user ID lsof reports in its USER column is
the process effective user ID, as found in the process
structure. Sometimes that may not agree with what ps(1)
reports for the same process.

There are sundry reasons for the difference. Sometimes
ps(1) uses a different source for process information,
e.g., the /proc file system or the psinfo structure.
Sometimes the kernel is lax or confused (e.g., Solaris
2.5.1) about what ID to report as the effective user ID.
Sometimes the system carries only one user ID in its process
structure (some BSD derivatives), leaving lsof no choice.

The differences between lsof and ps(1) user identifications
should be small and normally it will be apparent that the
confusion is over a process whose application has changed
to an effective user ID different from
the real one.

3.29 Why doesn't lsof find an open socket file whose connection
state is past CLOSE_WAIT?

TCP/IP connections in states past CLOSE_WAIT -- e.g.,
FIN_WAIT_1, CLOSING, LAST_ACK, FIN_WAIT_2, and TIME_WAIT
-- don't always have open files associated with them. When
they don't, lsof can't identify them. When the connection
state advances from CLOSE_WAIT, sometimes the open file
associated with the connection is deleted.

3.30 Why don't machine.h definitions work when the surrounding
comments are removed?

The machine.h header files in dialect subdirectories have
some commented-out definitions like:

```
/* #define HASSYSDC "/your/choice/of/path */
```

You can't simply remove the comments and expect the definition
to work. That's intended to make you think about what

value you are assigning to the symbol. The assigned value might have a system-specific convention. HASSYSDC, for example, might be /var/db/lsof.dc for FreeBSD, but it might be /var/adm/lsof.dc for
Solaris.

Symbols defined in the lsof documentation are described in 00PORTING, other machine.h comments, and other lsof documentation files. HASSYSDC, for example, is discussed in 00DCACHE. When comments and documentation don't suffice, consult the source code for hints on how the symbol is used.

3.31 What do "can't read inpcb at 0x...", "no protocol control block", "no PCB, CANTSENDMORE, CANTRCVMORE", etc. mean?

Sometimes lsof will report "can't read inpcb at 0x00000000", "no protocol control block", "no PCB, CANTSENDMORE, CANTRCVMORE" or a similar message in the NAME column for open TCP socket files. These messages mean the file's socket structure lacks a pointer to the INternet Protocol Control Block (inpcb) where lsof expects to find connection addresses -- local and foreign ports, local and foreign IP addresses. The socket file has probably been submitted to the shutdown(2) function for processing.

In some implementations lsof issues the "no PCB, CANTSENDMORE, CANTRCVMORE"
message, which tries to explain the absence of a protocol control block by showing the socket state settings that have been made by the shutdown(2) function.

If a non-zero address follows the "0x" in the "can't read inpcb" message, it means lsof couldn't read inpcb contents from the indicated address in kernel memory.

3.32 What do the "unknown file system type" warnings mean?

Lsof may report a message similar to"

```
unknown file system type, v_op: 0x10472f10
```

in the NAME column for some files.

This means that lsof has encountered a vnode for the file whose operation switch address (from v_op) references a file system type for which there is no support in lsof. After lsof identifies the file system type, it uses

pre-compiled code to locate the file system specific node
for the file where lsof finds information like file size,
device number, node number, etc.

To get some idea of what the file system type might be,
use nm on your kernel symbol file
to locate the symbol name
that corresponds to the v_op address -- e.g., on Solaris
do:

```
$ nm -x /dev/ksyms | grep 0x10472f10
0x10472f10 ... |file_system_name_vnodeops
```

Where "file_system_name" is the clue to the unsupported
file system.

Lsof doesn't use the v_op address to identify file system
types on all dialects. Sometimes it uses an index number
it finds in the vnode. It will translate that symbol to
a short name in the warning message -- e.g., "nfs3" -- if
possible.

3.33 Installation

3.33.1 How do I install lsof?

There is no "standard" way to install lsof. Too much
depends on local conditions for me to be able to provide
working install rules in the lsof make files. (The skeleton
install rules you will find just give "hints.") See the
"Installing Lsof" section of 00README for a fuller explanation.

To install lsof you will need to consider these questions:

* Who should be able to use lsof? (See HASSECURITY and
  HASNOSOCKSECURITY in the
"Security" section of 00README.)

* Where should lsof be installed? This is a decision
  mostly dictated by local conditions. Somewhere in
  /usr/local -- etc/ or sbin/ -- is a common choice.

* What permissions should I give the lsof executable?
  The answer to this varies by dialect. The make files
  have install rules that give hints. The "Installing
  Lsof" section of 00README gives information, too.

* What if I want to install lsof in a shared file system

for machines that require different lsof configurations?
See the next question and answer, "How do I install a common lsof when I have machines that need differently constructed lsof binaries?"

3.33.2 How do I install a common lsof when I have machines that need differently constructed lsof binaries?

A dilemma that faces some system administrators when they install lsof in a shared file system -- e.g., NFS -- is that they must have different lsof executables for different systems.

The answer is to build an lsof wrapper script that is executed in place of lsof. The script can use system commands to determine which lsof binary should be executed.

Consider this example. You have HP-UX machines with 32 and 64 bit kernels that share the /usr/local/sbin directory where you want to install lsof. Consequently, on each system you must use a different lsof executable, built for the system's bit size. (That's because lsof reads kernel structures, sized by the kernel's bit size.)

One answer is to install three things in /usr/local/sbin: 1) a 32 bit lsof as lsof32; 2) a 64 bit lsof as lsof64; and 3) an lsof script. The script might look like this one, based on work by Amir J. Katz:

```
#!/bin/sh
x=`/usr/bin/getconf KERNEL_BITS`  # returns 32 or 64
if /usr/bin/test "X$x" = "X32"
then
  lsof32 $*
else
  if /usr/bin/test "X$x" = "X64"
  then
lsof64 $*
  else
echo "Can't determine which lsof executable to use;"
echo
"getconf KERNEL_BITS says: $x"
exit 1
  fi
fi
```

Solaris users should consult "How do I install lsof for

Solaris 7, 8 or 9?" for information on a similar trick
using the Solaris isaexec command.

Users of other dialects might be able to use a command like
uname(1) that can identify a distinguishing feature of the
system to be incorporated in pre-installed lsof executable
names. For example, use `uname -r` and install binaries
with suffixes that match `uname -r` output.

3.34 Why do lsof 4.53 and above reject device cache files built
by earlier lsof revisions?

When lsof revisions 4.53 run and encounter a device cache
file built by an earlier revision, it will reject the file
and build a new one. The rejection will be advertised with
these messages:

```
lsof: WARNING: no /dev device in <name>: 2 sections
...
lsof: WARNING: created device cache file: <name>
```

This happens because the header line of the device cache
file was changed at revision 4.53
to contain the number of
the device on which the device directory resides. The old
device cache file header line -- the "2 sections" line in
the above warning message, node reads "2 sections, dev=600".

This is not a serious problem, since lsof automatically
rebuilds the device cache file with the correct header
line.

3.35 What do "like block special" and "like character special" mean
in the NAME column?

When lsof comes across an open block or character file
whose device, raw device and inode place it somewhere other
than /dev (or /devices), lsof doesn't report the /dev (or
/devices) name in the NAME column. Instead lsof reports
the file system name and device or path name in the NAME
column and parenthetically adds "like block special <path>"
or "like character special <path>".

The value for <path> will point to a block or character
device in /dev (or /devices) whose raw device number matches
that of the open file being reported, but whose device
number or node

number (or both) don't match.

Such an open file is connected to a device node that has
been created in a directory other than /dev (or /devices.)
See mknod(8) for information on how such nodes are created.
(Generally one needs root power to create device nodes with
mknod.)

3.36 Why does an lsof make fail because of undefined symbols?

When lsof is compiled via the `make` step and the final
load step fails because of missing symbols, the problem
may not be lsof. The problem may be that ld, called by
the compiler as part of the `make` step, can't find some
library that lsof needs.

First check the last compiler line of the make operation
-- e.g., the last line with cc or gcc in it before the
undefined symbol report -- for loader arguments, i.e.,
ones beginning with "-l". Except for "-llsof" the rest
name system libraries. ("-L./lib" precedes "-llsof" to
tell the loader its location.)

Check that all the named system libraries exist. Look in
/lib and /usr/lib as a
start, but that may not be the only
place system libraries live. Consult your dialect's
documentation, e.g., the compiler and loader man pages,
for other possible locations.

If some system library doesn't exist, that may mean it was
never installed or was removed. You'll have to re-install
the missing library.

You may find that all the system libraries lsof uses exist.
Your next step might be to use nm and grep to see if any
of them contain the undefined symbols.

```
$ nm library | grep symbol
```

If the undefined symbol exists in some library named by
the lsof make step, then you might have a problem with some
environment variable that controls the load step. The most
common is LD_LIBRARY_PATH. It may have a setting that
causes ld to ignore a directory containing a library lsof
names. If this is the case, try unsetting LD_LIBRARY_PATH
in the environment of the ld process -- e.g., do:

```
$ unset LD_LIBRARY_PATH
```

or

```
% unsetenv LD_LIBRARY_PATH
```

Consult your
ld man page for other environment variables
that might affect library searching -- e.g., LIBPATH, LPATH,
SHLIB_PATH, etc.

If the undefined function doesn't exist in any libraries
lsof names, check other libraries. See if the function
has a man page that names its library. If the latter is
true, please let me know, because that is an lsof problem
I need to fix.

If none of these solutions work for you, send me some
documentation via e-mail at <abe@purdue.edu>. Include `uname
-a` output, the output of the lsof `Configure ...` and `make`
steps, and the contents of the environment in force when the
`make` step was executed -- e.g., `env` or `printenv` output.
If you've located the libraries lsof names, send me that
information, too. Make sure "lsof" appears in the "Subject:"
line so my e-mail filter won't classify your letter as Spam.

3.37 Command Regular Expressions (REs)

3.37.1 What are basic and extended regular expressions?

Lsof's ``-c'' option allows the specification
of regular
expressions (REs), enclosed in two slash ('/') characters and
followed by these modifiers:

```
b the RE is a basic RE.
i ignore case.
x the RE is an extended RE (the default).
```

Note: the characters of the regular expression may need to
be quoted to prevent their expansion by the shell.

Example: this RE is an extended RE that matches exactly
four characters, whose third may be an upper ('O') or lower
case ('o') oh:

```
-c /^..o.$/i
```

For simplicity's sake, an RE that is acceptable to egrep(1)
is usually called an extended RE.

REs suitable for the old line editor, ed(1), are often
called basic REs (and sometimes also called obsolete).

These are some ways basic REs usually differ from extended
REs. (There are other differences.)

* `|', `+', `?', '{', and '}' are ordinary characters.

* `^' is an ordinary character except at the beginning of
  the RE.

* `$' is an ordinary character except at the end of the
  RE.

* `*' is an
ordinary character if it appears at the
  beginning of the RE.

For more information on REs and the distinction between
basic and extended REs, consult your dialect's man pages
for ed(1), egrep(1), sed(1), and possibly regex(5) or
regex(7).

3.37.2 Why can't I put a slash in a command regular expression?

Since a UNIX command name is the last part of a path to
the command's executable, the lsof command regular expression
(RE) syntax uses slash ('/') to mark the beginning and end
of an RE. Slash may not appear in the RE and the `\'
back-slash escape is ineffective for "hiding" it.

More likely than not, if you try to put a slash in an lsof
command RE, you'll get this response:

```
$ lsof -s/./\// ...
lsof: invalid regexp modifier: /
```

Lsof is complaining the the first character it found after
the second slash isn't an lsof command RE modifier -- 'b',
'i', or 'x'.

3.37.3 Why does lsof say my command regular expression wasn't found?

When you use both forms of lsof's
-c option --
``-c <command>" and ``-c /RE/[m]" -- and ask that lsof
do a verbose search (``-V"), you may be surprised that

lsof will say that the regular expression wasn't found.

This can happen if the ``-c <command>'' form matches first, because then the ``-c/RE/[m]'' test will never have been applied. For example:

```
$ ./lsof -clsof -c/^..o.$/ -V -adcwd
COMMAND  PID USER   FD   TYPE DEVICE SIZE/OFF  NODE NAME
lsof    7850  abe  cwd   VDIR    6,0     2048 96442 / (/dev/sd0a)
lsof: no command found for regex: ^..o.$
```

The ``-clsof'' option matched first, so the ``-c/^..o.$/ option wasn't tested.

3.38 Why doesn't lsof report on shared memory segments?

Lsof reports on shared memory segments only if they're associated with an open file. That's consistent with lsof's mission -- to LiSt Open Files. Shared memory segments with no file associations aren't open files.

That's not to say that a report on shared memory segments and their associated processes wouldn't be useful. But it calls for a new tool, not more baggage for lsof.

3.39 Why does lsof report two instances of itself?

When you ask lsof to report all open files and it has permission to do so, you may see two lsof processes in the output. The processes are connected via pipes -- e.g., here's an HP-UX 11 example.

```
COMMAND     PID USER   FD   TYPE     DEVICE ...
...
lsof      29450  abe    7w  PIPE 0x48732408 ...
lsof      29450  abe    8r  PIPE 0x48970808 ...
...
lsof      29451  abe    6r  PIPE 0x48732408 ...
lsof      29451  abe    9w  PIPE 0x48970808 ...
```

The first process will usually be the lsof you initiated; the second, an lsof child process that is used to isolate its parent process from kernel functions that can block -- e.g., readlink() or stat().

Information to and from the kernel functions is exchanged via the two pipes. When the parent process detects that

the child process has become blocked, it attempts to
kill
the child. Depending on the UNIX dialect that may succeed
or fail, but the parent won't be blocked in any event.

See the "BLOCKS AND TIMEOUTS" and "AVOIDING KERNEL BLOCKS"
sections of the lsof man page for more information on why
the child process is used and how you can specify lsof
options to avoid it. (Caution: that may be risky.)

3.40 Why does lsof report '\n' in device cache file error messages?

Lsof revisions prior to 4.58 may report '\n' in error
messages it delivers about problems in the device cache
file -- e.g.,

```
lsof: WARNING: no ...: 4 sections\n
```

That's deliberately done to show the exact contents of the
device cache file line about which lsof is complaining,
including its terminating NL (New Line) '\n' character.
In the above example the line in the device cache file
causing the lsof complaint contains "4 sections" and ends
with a '\n'.

At revision 4.58 and above, device cache error messages
like the one in the above example have been changed
to
read:

```
lsof: WARNING: no ...: line "4 sections"
```

The terminal '\n' is no longer reported, the line contents
are enclosed in double quote marks ("'"), and the word
"line" has been added as a prefix to denote that what
follows is a line from the device cache file.

3.41 Kernel Symbol and Address Problems

3.41.1 What does "lsof: WARNING: name cache hash size length error: 0"
mean?

When run on some systems, lsof may issue this warning:

```
lsof: WARNING: name cache hash size length error: 0
```

That is an example from a FreeBSD system where lsof reads
the kernel's _nchash variable and finds its value is zero.

Similar warnings include:

```
WARNING: kernel name cache size:
WARNING: can't read kernel's name cache:
WARNING: no name cache address
WARNING: name cache hash size length error:
WARNING: unusable name cache size:
```

These warnings are issued when lsof is attempting to read the kernel's name cache information. They are usually the result
of a mis-match between the addresses for kernel symbols lsof gets via nlist(2) and the addresses in use by the kernel.

Lsof usually gets kernel symbol addresses from what it believes to be the kernel boot file. In FreeBSD, for example, that's the path returned by getbootfile(3), usually /kernel. The boot file can have other names in other UNIX dialects -- /unix, /vmunix, /bsd, /netbsd, /mach, /stand/vmunix, etc.

Lsof will get incorrect (mismatched) addresses from the boot file if it has been replaced by a newer one which hasn't yet been booted -- e.g., if this is done in FreeBSD:

```
# mv /kernel /kernel.OLD
# mv /kernel.NEW /kernel
```

Until the FreeBSD system is rebooted, the booted kernel is /kernel.OLD, but getbootfile() says it is /kernel. If symbol addresses important to lsof in /kernel.OLD and /kernel don't match, the lsof WARNING messages result.

3.41.2 Why does lsof produce "garbage" output?

Kernel name cache warnings may not be the only sign that lsof
is using incorrect symbol addresses to read kernel values. If there's no reasonable test lsof can make on what it reads from the kernel, it may issue other warnings or even report nonsensical results.

The warnings may appear on STDERR, such as:

```
lsof: can't read proc table info
```

Or the warnings may appear in the NAME column as messages
saying lsof can't read or interpret some kernel structure --
e.g.,

```
... NAME
... can't read file struct from 0x12345
```

One possible work-around is to point lsof's kernel symbol
address gathering at the proper boot file. That can be
done with lsof's -k option -- e.g.,

```
$ lsof -k /kernel.OLD
```

The best work-around is to make sure the standard boot file
is properly sited -- e.g., if you've moved a new /kernel
in place, boot it.

3.42 Why does lsof report open files when run as super user that
it doesn't report when run with lesser privileges?

The most likely cause is that the HASSECURITY option was
selected when
the lsof executable was built.

If HASSECURITY is defined when lsof is built, and lsof is
run with the privileges of a non-ROOT user, it will only
list open files belonging to the user. The same lsof
executable, when run with root user privileges, will list
all open files.

However, if HASSECURITY and HASNOSOCKSECURITY are both
defined when lsof is built, lsof will list open files
belonging to the user and will also list anyone else's open
socket files, provided their listing is selected with the
"-i" option.

So first ask yourself if the process whose open files lsof
won't list belong to a user other than the one under which
you're running lsof, and are not open socket files. If
either is true, use lsof's help (-h or -?) option and look
for a line near the bottom of the help panel that says:

```
"... can list all files..."
```

If the leading "..." says "Only root" then HASSECURITY was
defined when lsof was built. If the trailing "..." says
", but anyone can list

socket files" then HASNOSOCKSECURITY
was also defined.

Should you want an lsof not built with HASSECURITY defined,
rerun the lsof Configure script. If you let Configure do
customization, make sure you answer 'n' when it asks if
you want to enable HASSECURITY and HASNOSOCKSECURITY. If
you don't need to do customization, you can rebuild lsof
with the "-n" option to Configure. Here's an example of
such a rebuild sequence:

```
$ Configure -clean
$ Configure -n <dialect-abbreviation>
$ make
```

More information on the HASSECURITY and HASNOSOCKSECURITY
options may be found in the "Security" section of the
00README file of the lsof distribution.

3.43 Test Suite Problems

3.43.1 Errors all tests can report:

3.43.1.1 Why do tests complain "ERROR!!! can't execute ../lsof"?

All tests in the test suite expect an executable lsof file
to exist in the tests parent directory, ../lsof.

If there's none there, the tests/Makefile has a rule to
make it, but there are probably
circumstances where that
rule may fail.

The work-around is to re-Configure and re-make lsof, then
run the test suite.

3.43.1.2 Why do tests complain "ERROR!!! can't find ..." a file?

Many tests create (or use from a supplied environment
variable path) a test file and use lsof to find it. When
lsof can't file the file, the tests report the error with
messages of the form:

```
ERROR!!! can't find ... : <some file path>
```
or
```
ERROR!!! lsof couldn't find ...
```

These type of error messages mean that the lsof field output

delivered to the test didn't contain a file that the test could identify as the one it intended lsof to find. It might also mean that the process information -- command name, PID or parent PID -- didn't match what the test expected.

This could imply a bug in the test or a bug in lsof. Try using lsof to find a known file that is open. For example, while in the tests sub-directory, do this:

```
$ sleep 30 < Makefile
$ ../lsof Makefile
```

If
lsof doesn't report that Makefile is open, then the fault may be with lsof. If lsof reports the file is open, search further in the test code for the failure cause.

3.43.1.3 Why do some tests fail to compile?

If a test suite program fails to compile, it may be because I've never had an opportunity to compile the test on the particular UNIX version you are using.

See Appendix B in 00TEST for a list of the UNIX dialects where the test suite has been validate.

3.43.1.4 Why do some tests always fail?

There are several tests in the optional group that have conflicting or special requirements:

LTbigf needs a dialect and file system that support large files.

LTlock won't work if the tests/ sub-directory is on an NFS file system.

LTnfs won't work if the tests/ sub-directory is not on an NFS file system.

So for two tests in particular, LTlock and LTnfs, one will generally fail.

Some failing tests can be run successfully by supplying
to
them a path to the appropriate type of file system with the -p option.

3.43.1.5 Why does the test suite say it hasn't been validated on my dialect?

When you use the default rule of the test suite's Makefile, it may issue this complaint:

```
$ cd tests
$ make
!!!WARNING!!!

This dialect or its particular version may not have
been validated with the lsof test suite.  Consequently
some tests may fail or may not even compile.

!!!WARNING!!!
```

You are then given the opportunity to answer 'y' to have the test suite operation continue.

This message means that the tests/TestDB file in the tests sub-directory doesn't show that the test suite has been run with the combination of compiler flags found in tests/config.cflags. The tests might nor run; they may encounter compiler failures.

See 00TEST for more information on the UNIX dialects where the test suite has been validated and on the workings of TestDB and its supporting scripts.

When the tests/Makefile "auto" rule is used, the message is more terse and the condition is fatal.

```
This suite has not been validated on:

<dialect_description>
```

No opportunity to continue is offered.

The tests/Makefile "silent" rule will skip checking for the validation footprint.

3.43.1.6 Why do the tests complain they can't stat() or open() /dev/mem or /dev/kmem?

When the tests detect that lsof for the dialect reads its information from kernel memory (i.e., the LT_KMEM definition

is present in tests/config.cflags), and when the lsof
executable path is ../lsof, the tests make sure they can
stat() and open() for read access the relevant kernel memory
devices, /dev/kmem and possibly /dev/mem.

If those stat() or open() operations fail, the tests issue
an error message and quit. The message explains why the
system rejected the operation in terms of system "errno"
symbols and messages. More often than not the explanation
will be that the process lacks permission
to access the
indicated device node.

One work-around is to give the lsof executable being tested
the necessary permission -- e.g., via chgrp, chmod, etc.
-- and set its path in the LT_LSOF_PATH environment variable.
(See 00TEST.)

Another work-around is to make sure the process that runs
the tests has the necessary permissions -- e.g., run it as
root, or enable the process login to access the resources.
For example, I can run the tests on my personal work-station
because /dev/kmem and /dev/mem are readable by the "kmem"
group and my login is in that group.

3.43.2 LTbigf test issues

3.43.2.1 Why does the LTbigf test say that the dialect doesn't support large files?

Large file support is defined dialect by dialect in the
lsof source files and Configure script. If large file
support isn't defined there, it isn't defined in the LTbigf
test.

If you think that's wrong for a particular dialect, contact me
via e-mail at <abe@purdue.edu>. Make sure "lsof" appears
in the
"Subject:" line so my e-mail filter won't classify your letter
as Spam.

3.43.2.2 Why does LTbigf complain about operations on its config.LTbigf* file?

The LTbigf must be able to write a large file test (size
> 32 bits) and seek within it and the process file ulimit
size must permit the operation. If the default location

for the test file, tests/, isn't on a file system enabled
for large file operations or if the process ulimit file
block size is too small, lsof will get file operation
errors, particularly when seeking

There may be a work-around. Specify the path to a file
LTbigf can write in a file system enabled for large file
operations a the -poption. Make sure that the ulimit file
block size permits writing a large file. For example,
presuming /scratch23 is large-file-enabled, and presuming
you have permission to raise the ulimit file block size,
this shell commands will allow the LTbigf test to run on
AIX:

```
$ ./LTbigf -p /scratch23/abe/bigfile
```

(Note:
syntax for the ulimit command varies by dialect and
by shell. Discovering the proper variant is left to the
reader.)

More information on this subject can be found in the LTbigf
description in the 00TEST file. If course, the LTbigf.c
source file in tests/ is the ultimate source of information,

3.43.2.3 Why does LTbigf warn that lsof doesn't return file offsets?

On some dialects (e.g., Linux) lsof can't report file
offsets, because the data access method underlying lsof
doesn't provide them. If LTbigf knows that lsof can't
report file offsets for the dialect, it issues this warning:

```
LTbigf ... WARNING!!! lsof can't return file offsets
for this dialect, so offset tests have
been disabled.
```

LTbigf then performs the size test and skips the offset
tests.

For more information see 00TEST and the "Why doesn't
/proc-based lsof report file offsets (positions)?" Q&A of
this file.

3.43.3 Why does the LTbasic test complain "ERROR!!! lsof this ..."
and "ERROR!!!
lsof that ..."?

The LTbasic test program uses lsof to examine a running

lsof process. It looks for the lsof current working directory, executable (if possible), and kernel memory file (if applicable).

Failures to find those things result in the LTbasic error messages. More information on how LTbasic produces the error messages may be found in the LTbasic.c source file.

On HP-UX 11.11 and higher, for example, if the test's current working directory is on a loopback (LOFS) file system, LTbasic won't be able to find the current working directory of the lsof process because of a bug in the HP-UX kernel.

The solution for that HP-UX problem is to install an HP-UX patch. See the answer to the "Why doesn't PSTAT-based lsof report a CWD that is on a loopback (LOFS) file system?" question for more information on the patch.

3.43.4 NFS test issues

3.43.4.1 Why does the LTnfs test complain "couldn't find NFS file ..."?

The LTnfs test must work with an NFS test file. After it opens the file it asks lsof to find it on an NFS file system. If the file isn't on an NFS file system, lsof won't find it, and the NFS test script complains and fails.

The work-around is to use -p option to supply a path to a regular NFS file (not a directory) that is on an NFS file system that LTnfs can read. Presuming /share/bin/file is such a file and can be opened for reading by the LTnfs test, this sample shell command could be used to run the LTnfs test successfully:

```
$ ./LTnfs -p /share/bin/file
```

(If the NFS file system is enabled for large files, the NFS test will produce the error message described in the following Q&A.)

3.43.5 LTnlink test issues

3.43.5.1 Why does the LTnlink test complain that its test file is on an NFS file system?

The LTnlink test may complain:

LTnlink ... WARNING!!! test file <path> is NFS mounted.

and then issue an explanation and a hint about using the
-p option.

The LTnlist test does this because of the
way NFS file
links are managed when an NFS file is unlinked and the
unlinking process still has the file open. Unlike with
files on a local file system, when an NFS file that is
still open is unlinked, its link count is not reduced.

The file name is changed to a name of the form .nfsxxxx
and the link count is left unchanged until the process
holding the file open closes it. That's done by NFS so it
can keep proper track of the file on NFS clients and servers.

Since the link count isn't reduced when the LTnlink test
program closes the NFS test file it still has open, lsof
won't find it for LTnlink with a link count of zero.
Consequently, LTnlink disables that test section and issues
its warning.

The warning suggests that the unlink test section can be
run by giving LTnlink a path to a test file with the -p
option. That path must name a file LTnlink can write and
unlink. Presuming /scratch23/abe/nlinkfile is on a local
file system and the LTnlink test can write
to it and unlink
it, this sample shell command can be used to run the complete
LTnlink test successfully:

$ LTnlink -p /scratch23/abe/nlinkfile

3.43.5.2 Why does LTnlink delay and report "waiting for link count
update: ..."?

On some UNIX dialects and file system combinations the
updating of link count after a file has been unlinked can
be delayed. Consequently, lsof won't be able to report
the updated link count to LTnlink for a while.

When lsof doesn't report the proper link count to LTnlink,
it sleeps and repeats the lsof call, using the "waiting
for link count update: ..." message as a signal that it is
waiting for the expected lsof response. The wait cycle
duration is limited to approximately one minute.

3.43.5.3 Why does LTnlink fail because of an unlink error?

LTnlink may fail with an error similar to:

```
LTnlink ... ERROR!! unlink(<name>) failed: (Permission denied).
```

That message will be followed by a short explanation.

The error means that the
kernel support for the file system on
which the file <name> resides does not allow a process to
unlink a file while it has the file open. (When LTnlink is run
without the "-p path" option, it creates a <name> that begins
with "./config.LTnlink" and ends with the LTnlink process ID
number.)

An unlink failure of this type runs counter to original UNIX
file system behavior, but it has been observed on some file
system types, especially on the ZFS file system.

The work-around is to run LTnlink on a file system that allows
a process to unlink a file it has open. Usually /tmp has that
support. So, try running LTnlink this way:

```
$ ./LTnlink -p /tmp/<name>
```

where <name> is a unique name in /tmp of your choosing. To
be safe, create a subdirectory in /tmp, named by your login:

```
$ rm -f /tmp/<login>
$ mkdir /tmp/<login>
$ ./LTnlink -p /tmp/<login>/<name>
```

3.43.6 LTdnlc test issues

3.43.6.1 Why won't the LTdnlc test run?

Lsof is unable to access the DNLC
cache on AIX, because the
kernel symbols for the DNLC aren't exported. Contact IBM
to learn why that decision was made.

The LTdnlc test won't work on Apple Darwin because lsof
can't obtain reliable DNLC information.

The LTdnlc test may fail on other dialects. Failure causes
include: a busy system with a DNLC that is changing rapidly;
path name components too large for the DNLC; a file system

-- e.g., NFS, /tmp, loopback -- which doesn't fully
participate in the DNLC; or DNLC limitations (Many DNLC
implementations will only store path name components if
they are 31 characters or less.)

If you suspect the file system doesn't fully participate
in kernel DNLC processing, as a work-around rebuild and
test lsof on one that does.

3.43.6.2 What does the LTdnlc test mean by "... <path> found: 100.00%"?

Even when it succeeds the LTdnlc test will report:

LTdnlc ... /export/home/abe/src/lsof4/tests found: 100.00%

This message means that the LTdnlc test asked lsof to find
the
file at the indicated path five times and lsof found
the full path name in the indicated percentage of calls.
The LTdnlc test considers it a failure if the percentage
falls below 50.0%

3.43.6.3 Why does the DNLC test fail?

The DNLC test may fail when some component of the lsof
tests/ sub-directory can't be cached by the kernel DNLC.
Some kernels have a limit on the length of individual
components (typically) 32.

3.43.7 Why hasn't the test suite been qualified for 64 bit HP-UX
11 when lsof is compiled with gcc?

When I attempted to qualify lsof for HP-UX 11, compiled
with gcc 3.0, the LTsock test failed. I traced the failure
to a gcc compilation error. Because LTsock is an important
test, I didn't feel that the test suite was qualified if
it failed.

LTsock compiles and runs correctly on 64 bit HP-UX 11 when
compiled with HP's ANSI-C.

3.43.8 LTszoff test issues

3.43.8.1 Why does LTszoff warn that lsof doesn't return file offsets?

On some dialects (e.g., Linux)
lsof can't report file
offsets, because the data access method underlying lsof

doesn't provide them. If LTszoff knows that lsof can't report file offsets for the dialect, it issues this warning:

```
LTszoff ... WARNING!!!  lsof can't return file offsets
for this dialect, so offset tests have
been disabled.
```

LTszoff then performs the size test and skips the offset tests.

For more information see 00TEST and the "Why doesn't /proc-based lsof report file offsets (positions)?" Q&A of this file.

3.43.9 LTlock test issues

3.44 File descriptor list (the ``-d'' option) problems

3.44.1 Why does lsof reject a ``-d'' FD list?

Lsof rejects ``-d'' FD lists that contain both exclusions and inclusions with messages like:

```
lsof: exclude in an include list: ^1
lsof: include in an exclude list: 2
```

That's because ``-d'' FD lists are processed as ORed lists, so it makes no sense for them to contain both exclusions and inclusions.

I.e.,, if a ``-d'' FD list were to contain ``^cwd,1'', the ``^cwd'' member is useless, because the ``1'' member dominates by saying "include only FD 1". That effectively excludes ``cwd'' FD.

Note that lists may have multiple members of the same type, exclude or include. They are processed as an ORed set. If an FD isn't excluded by any member of an exclude list, it is selected. If an FD is included by any member of an include list, it is selected.

3.44.2 Why are file descriptors other than those in my FD list reported?

The FD list that follows ``-d'' excludes or includes file descriptors, but unless the ``-a'' (AND) option is specified, the FD list selections are ORed to the other selections.

For example, the following lsof command will cause all file descriptors to be listed for the lsof command, and all but the cwd descriptor for all other commands, probably not what was intended.

```
$ lsof -clsof -d^cwd
```

Hint: use ``-a'' -- e.g.,

```
$ lsof -clsof -a -d^cwd
```

3.45 How can I supply device numbers for inaccessible NFS file systems?

When lsof can't get device numbers for inaccessible NFS file systems via stat(2) or lstat(2), it attempts to get them from the mount table's dev=xxx options. Successes are reported with a warning message that indicates the source of the device number and that output might be incomplete as a consequence of the warnings.

Some system mount tables -- e.g., Linux /proc/mounts -- don't have a dev=xxx option. In that case, and provided lsof for the dialect supports them, you can use the +m option to create a mount table supplement file and the "+m m" option to use it.

First check the lsof -h (help) output to see if the +m and "+m m" options are supported. If they are, use +m to create a mount table supplement file when all mounted file systems are accessible. Use "+m m" later to make the supplement available when some mounted file systems might not be available.

Here's an example that creates a mount supplement file in $HOME/mnt-sup
and later makes it available to lsof.

```
$ rm -f $HOME/mnt-sup
$ lsof +m > $HOME/mnt-sup
...
$ lsof +m $HOME/mnt-sup <other lsof options>
```

If lsof has to get the device number from the supplement, it will issue an informative warning message. The warning can be suppressed with lsof's -w option.

Caution! Since the mount table supplement file is static, it

is its supplier's responsibility to update it as file system mounts change.

For more information, consult the lsof man page. The "ALTERNATE DEVICE NUMBERS" section has useful information on how lsof acquires device numbers when stat(2) or lstat(2) fail.

3.46 Why won't lsof find open files on over-mounted file systems?

When a file system, /xyz for example, is mounted on the same mount point as another file system, /abc for example, running lsof with an argument of the path of the first file system's mount point -- the over-mounted one, /abc -- probably will not reveal any files open
on /abc.

That's because lsof looks for open files on a file system by looking for files with the file system's device number. The two file systems usually have different device numbers and lsof determines the device number search key from the supplied name of the second file system.

A general work-around exists only for Linux. On that UNIX dialect, when you know the over-mounted file system's mount point path, you can ask lsof to report on all open files and grep that output for the path of the over-mounted file system mount point.

3.47 What can be done when lsof reports no more space?

Many lsof methods cache information in memory, using the dialects malloc() library function. When malloc() can't allocate the requested amount of memory, lsof exits with warning messages similar to this AIX message:

```
lsof: no more dev-ch space at pid 2257750: 0x82a8e600
```

Lsof then exits immediately and produces no more output.

A possible work-around is to increase the memory foot print
of the shell that runs lsof. That is often done with the ulimit(1) shell command.

3.48 What if the lsof build encounters ar and ld problems?

The lsof main and library Makefiles use the library archiver,

ar, and the system loader, ld, applications. Improperly
located, installed or configured versions of them may cause the
lsof build to encounter errors with them.

The application producing the error should identify itself in
its error messages.

The first thing to check the path of the application that is
being used. Try `which ar` or `which ld` to see if perhaps the
PATH used during the build might be causing the wrong archiver
or loader to be used.

If the problem is with the use of the wrong archiver, and it's
not possible to correct the PATH to it, try using the LSOF_AR
environment variable to specify the path to and arguments for
the correct archiver. See 00XCONFIG for more information and
note that LSOF_AR must specify the path to the archive
application
and the arguments for it, less the terminating
library and module name arguments.

If the problem is with the loader, there is no lsof work-
around. That's because lsof calls the loader via the C
compiler, so the problem must be fixed at the compiler (system)
level.

3.49 Why does lsof -i report an open socket file for a process, but
lsof -p on that process' ID report nothing?

The lsof in use was probably built with the HASSECURITY and
HASNOSOCKSECURITY options and the process in question does not
belong to the user of lsof.

The HASSECURITY option limits lsof output to processes owned
by the user invoking lsof and the HASNOSOCKSECURITY option
weakens that slightly to allow output of open socket file
information for all processes.

For example, if process PID 12345 is owned by some user other
than the one invoking lsof, and lsof has been compiled with the
HASSECURITY and HASNOSOCKSECURITY options, the following lsof
command will display the open socket files
of process 12345:

```
$ lsof -p 12345 -a -i
```

This security restriction is described in the lsof(8) manual
page.

4.0 AIX Problems

4.1 What is the Stale Segment ID bug and why is -X needed?

Kevin Ruderman reports that he has been informed by IBM
that processes using the AIX 3.2.x, 4.1[.12345]], 4.2[.1],
and 4.3.x kernel's readx() function can cause other AIX
processes to hang because of what appears to be file system
corruption.

This failure, known as the Stale Segment ID bug, is caused
by an error in the AIX kernel's journaled segment memory
handler that causes the kernel's dir_search() function
erroneously to believe directory entries contain zeroes.
The process using the readx() call need not be doing anything
wrong. Usually the system must be under such heavy load
that the segment ID being used in the readx() call has been
freed and then reallocated to another process since it was
obtained from kernel memory.

Lsof uses the readx() function to access library entry
structures,
based on the segment ID it finds in the proc
structure of a process. Since IBM probably will never fix
the kernel bug, I've added an AIX-specific option to lsof
that controls its use of the readx() function.

By default lsof readx() use is disabled; specifying the
``-X'' option enables readx() use.

If you want to change the default readx() behavior of AIX
lsof, change the HASXOPT, HASXOPT_ROOT, and HASXOPT_VALUE
definitions in dialects/aix/machine.h. You can also use
these definitions to enable or disable readx() -- consult
the comments in machine.h. You may want to disable readx()
use permanently if you plan to make lsof publicly executable.

When HASXOPT_ROOT is defined, lsof will restrict use of
the -X option to processes whose real UID is root; if
HASXOPT_ROOT isn't defined, any user may specify the -X
option. The Customize script offers the option to change
HASXOPT_ROOT when HASXOPT is defined and HASXOPT_ROOT is
named in any dialect's machine.h
header file.

I have never seen lsof cause a problem with its use of

readx(), but I believe there is some chance it could, given the right circumstances.

4.1.1 Stale Segment ID APAR

Here are the details of the Stale Segment ID bug and IBM's response, provided by Kevin Ruderman.

```
AIX V3
  APAR=ix49183
      user process hangs forever in kernel due to file
      system corruption
  STAT=closed prs  TID=tx2527 ISEV=2 SEV=2
       (A "closed prs" is one closed with a Permanent
       ReStriction.)
  RCOMP=575603001 aix v3 for rs/6 RREL=r320

AIX V4  (internal defect, no apar #)
  prefix       p
  name         175671
  abstract     KERMP: loop for ever in dir_search()
```

Problem description:

1. Some user application -- e.g., lsof -- gets the segment ID (SID) for the process private segment of a target process from the process table.

2. The target process exits, deleting the process private segment.

3. The SID is reallocated for use as a persistent segment.

4. The user application runs again and tries to read the user area structure from /dev/mem, using the SID it read from the process table.

5. The loads done by the driver for /dev/mem cause faults in the directory; new blocks are allocated; the size changed; and zero pages created.

6. The next application that looks for a file in the affected directory hangs in the kernel's dir_search() function because of the zero pages. This occurs because the kernel's dir_search() function loops through the variable length entries one at a time, moving from one to the next by adding the length of the current entry to its

address to get the address of the next entry. This
process should end when the current pointer passes the
end of the known directory length.

However, while the directory length has increased, the
entry length data has not, so when dir_search() reaches
the zero pages, it loops forever, adding a length of

zero to the current pointer, never passing the end of
the directory length. The application process is hung;
it can't be killed or stopped.

IBM closed the problem with a PRS code (Permanent ReStriction)
under AIX Version 3 and had targeted a fix for AIX 4.2. They
have recently (I became aware of it September 10, 1996)
cancelled the defect report altogether and have indicated they
are not going to fix the defect.

4.2 Gcc Work-around for AIX 4.1x

When gcc is used to compile lsof for AIX 4.1x, it doesn't
align one element of the user structure correctly. Xlc
sees the U_irss element as a type "long long" and aligns
it on an 8 byte boundary. That's because the default mode
of xlc is -qlonglong; when -qlonglong is enabled, the
_LONG_LONG symbol is also defined.

Gcc sees U_irss as a two element array of type long, because
_LONG_LONG isn't defined. Hence gcc aligns the U_irss
element array on a 4 byte boundary, rather than an 8 byte
one, making the gcc incantation
of the user structure 4
bytes shorter than xlc's.

When the length of gcc's user structure is supplied as
argument 4 to the undocumented getuser() function of the
AIX kernel, getuser() rejects it as an incorrect size and
returns EINVAL.

Lsof has a work-around for this problem. It involves a
special test in the Configure script when the "aixgcc"
Configure abbreviation is used -- e.g.,

```
$ Configure -n aixgcc
```

The test is to compile a small program with gcc and check
the alignment of U_irss. If it's not aligned on an 8 byte
boundary, the Configure script makes a special copy of

<sys/user.h> in ./dialects/aix/aix<AIX_version> whose
U_irss will align properly, and generates compile time
options to use it.

While I have tested this work-around only with 4.1.4, it
should work with earlier versions of AIX 4.1. It does not
work for AIX 4.2; a different work-around is employed there.
(See the next section.)

If you want to use this technique to compile other AIX
4.1x
programs with gcc for using getuser(), check the
Configure script.

Stuart D. Gathman identified this gcc AIX alignment problem.

4.3 Gcc and AIX 4.2[.1]

Alignment problems with gcc and AIX 4.2[.1] inside the user
structure are more severe, because there are some new 64
bit types in AIX that gcc doesn't yet (as of 2.7.x) support.
The <sys/user.h> U_irss element problem, discussed in 4.3
above, doesn't exist in 4.2[.1].

The AIX lsof machine.h header file has a work-around,
provided by Henry Grebler, that bypasses gcc alignment
problems. Later versions of gcc (e.g., 2.8.x) will probably
bypass the problems as well.

4.4 Why won't lsof's Configure allow the use of gcc for AIX
below 4.1?

Gcc can't reliably be used to compile lsof for AIX versions
below AIX 4.1 because of possible kernel structure element
alignment differences between it and xlc.

4.5 What is an AIX SMT file type?

When you run AIX X clients with the DISPLAY environment
variable set to ``:0.0'' they communicate
with the AIX X
server via files whose kernel file structure has an undefined
type (f_type == 0xf) -- at least there's no definition for
it in <sys/file.h>.

These are Shared Memory Transport (SMT) sockets, an artifact
of AIXWindows, designed for more efficient data transfers
between the X server and its clients.

Henry Grebler and David J. Wilson alerted me to the existence of these files. Mike Feldman and others helped me identify them as SMT sockets.

The curious reader can find more about SMT sockets in /usr/lpp/X11/README.SMT.

4.6 Why does AIX lsof start so slowly?

When AIX lsof starts it compares the running kernel's identity to the one for which it was built, using /usr/bin/oslevel. That comparison can sometimes take a long time to complete, depending on the system's maintenance level and how recently it was examined with oslevel.

AIX revisions 4.67 and above for AIX 5 and above don't use oslevel to determine the kernel identity. They use uname(2) instead,
and it is much faster.

You can skip the oslevel test by suppressing warning messages with lsof's -w option. Doing that carries with it the risk of missing other warning messages, however.

You can also disable the kernel identity check by disabling the definition of the HASKERNIDCK symbol by editing AIX machine.h header file or by using the Customize script to disable it.

See the "Why does lsof warn "compiled for x ... y; this is z.?" section for more information.

4.7 Why does exec complain it can't find libc.a[shr.o]?

When you try to execute lsof you may get this complaint:

```
exec(): 0509-036 Cannot load program ./lsof because of
    the following errors:
 0509-022 Cannot load library libc.a[shr.o].
 0509-026 System error: A file or directory in
the path name does not exist.
```

This is probably the result of making lsof when the LIBPATH environment variable contained a directory path that doesn't contain libc.a. You can see what LIBPATH
contained when
lsof was made by using the dump application on lsof. For

example, if LIBPATH contained /foo/bar when lsof was made,
you will see this (partial) dump output:

```
   $ dump -H lsof
   ...
 ***Import File Strings***
   INDEX  PATH                    BASE        ...
   0      /foo/bar
```

To correct the problem, revisit the lsof source directory
and remake lsof this way:

```
   $ unset LIBPATH; make  (sh or ksh)
or
   % unsetenv LIBPATH; make  (csh or tcsh)
```

4.8 What does lsof mean when it says, "no PCB, CANTSENDMORE,
CANTRCVMORE" in a socket file's NAME column?

When an AIX application calls shutdown(2) on an open socket
file, but hasn't called close(2) on the file, the file will
remain visible to lsof as an open socket file without any
extended protocol information.

Lsof reports that state in the NAME column by saying that
there is "no PCB" (Protocol Control Block) for the protocol
(e.g., TCP in the NODE column). If the open socket file
has
the state variables SO_CANTSENDMORE and SO_CANTRCVMORE
set -- i.e., from the shutdown(2) call -- lsof reports them
with the CANTSENDMORE and CANTRCVMORE notes in the NAME
column.

4.9 When the -X option is used on AIX 4.3.3, why does lsof disable
it, saying "WARNING: user struct mismatch; -X option disabled?"

The -X option causes lsof to read the loader information
of the user structure from virtual memory via the readx()
system call. It does that with the user structure definition
from <sys/user.h> that was compiled into the lsof executable.

On AIX 4.3.3 there are two different user structure
definitions in two separate <sys/user.h> header files,
distributed at different times by IBM. If lsof was compiled
with one and the kernel on which lsof is being run was
compiled with the other, lsof normally won't get correct
loader information when it calls readx().

In an attempt to compensate for that difference, lsof makes
an independent check of the loader information
by getting
the user structure's open file count via readx() and
comparing it to the open file count obtained independently
via getprocs(). When the two counts don't match, lsof
tries to read the count (and re-read the loader information)
with two offsets, based on observed differences between
the two user structures.

When one of the three attempts produces a correct open file
count, lsof uses its corresponding offset on subsequent
readings of the loader information.

When none of the three attempts produces a correct open
file count, lsof issues the WARNING message and disables
-X processing.

To eliminate this problem, obtain an lsof binary that
matches the kernel of the AIX 4.3.3 system where you want
to run lsof. Compiling lsof on the target system is the
preferred way to get a matching binary.

4.10 Why doesn't the -X option work on my AIX 5L or 5.[123] system?

If your AIX 5L or 5.[123] system uses the ia64 architecture,
lsof needs setuid-root permission to be
able to do the
processing that -X requires.

Check the output of `uname -a` to determine the architecture
type.

The work-around is to give lsof setuid-root permission.

4.11 Why doesn't /usr/bin/oslevel report the correct AIX version?

The oslevel man page says, "The oslevel command reports
the level of the operating system using a subset of all
filesets installed on your system."

You can see which fileset is below the expected level with
oslevel's -l option. For example, if you believe your
system is at AIX level 4.3.3, but oslevel reports 4.3.2,
use this oslevel command to find the filesets below 4.3.3:

```
$ /usr/bin/oslevel -l 4.3.3.0
```

If you don't know what level argument to supply to oslevel's
-l option, use oslevel's -q option first.

4.11.1 Why doesn't /usr/bin/oslevel report the correct AIX version on AIX 5.1?

The subset list for oslevel on AIX 5.1 seems to include at least two filesets, xlsmp.msg.en_US.rte and xlsmp.rte, that do not install from AIX 5.1
media with a 5.1.0.0 level.
Hence, oslevel reports 5.0.0.0 instead of the expected 5.1.0.0.

If either xlsmp.msg.en_US.rte or xlsmp.rte is installed, lsof's Configure script and run-time tests will identify the AIX version incorrectly. The run-time test will issue a complaint message of this form:

```
lsof: WARNING: compiled for AIX version xxx; this is yyy.
```

You can correct the Configure test by pre-defining the oslevel value, setting the correct value in the LSOF_VSTR environment variable before running the Configure script -- e.g., to pre-define AIX 5.1 when using ksh, do this:

```
$ LSOF_VSTR=5.1.0.0 Configure -n aix
```

You can't affect oslevel output without uninstalling xlsmp.msg.en_US.rte and xlsmp.rte. If you can't do that, you'll have to put up with the run-time complaint.

4.12 Why does lsof for AIX 5.1 or above Power architecture complain about kernel bit size?

When you run an lsof binary on an AIX 5.1 or above Power system, it might complain:

```
lsof: FATAL: compiled for a 32 bit kernel.
  The bit size of this kernel is 64.
or
   exec: 0509-036 Cannot load program ./lsof because of
    the following errors:
        0509-032 Cannot run a 64-bit program on a 32-bit
    machine.
```

Starting at lsof revision 4.61, lsof binaries for Power architecture systems running AIX 5.1 or above are closely

tied to the kernel bit size. Lsof must do that so it can read and understand kernel structures.

Lsof's Configure script tunes the lsof configuration so that the binary built in the make(1) step is adjusted to the kernel bit size.

An lsof binary knows the bit size for which it was constructed, tests the bit size of the kernel under which it is running, and objects if the two sizes don't match. To see the bit size for which lsof was constructed, run it with its -v option and look for these lines in the output:

```
   configuration info: 32 bit kernel
 or
   configuration info: 64 bit kernel
```

(Note: these lines will appear only in -v output for AIX 5.1 and above lsof binaries, built for Power architecture.)

You can see the kernel bit size test method in the aix stanza of the lsof Configure script and in the get_kernel_access() function of the lsof .../dialects/aix/dproc.c source file.

There is more information on pre-defining the kernel bit size when building lsof in Configure, 00PORTING, and 00XCONFIG.

The only work-around is to use an lsof binary built to match the running kernel bit size.

4.13 What can't gcc be used to compile lsof on the ia64 architecture for AIX 5 and above?

Gcc can't be used to compile lsof on the ia64 architecture for AIX 5 and above because I haven't had access to a system that has a working gcc compiler. The gcc compiler on my one and only ia64 AIX 5.1 test system, provided by IBM, didn't work at all.

4.14 Why does lsof get a segmentation fault when compiled with gcc for a 64 bit Power architecture AIX 5.1 kernel?

When lsof is configured with the lsof "aixgcc" Configure abbreviation, the resulting lsof executable may cause a segmentation violation when it is run. I've observed this

with gcc version 2.9-aix43-010414-7.

As far as I have been able to tell, the segmentation fault is the result of a gcc compilation, loading, or library error. Watching lsof run with gcc's companion debugger, gdb, shows no error in the lsof source code that might explain the fault.

The only work-around I know is to use the IBM C compiler in place of gcc -- i.e., use the "aix" lsof Configure abbreviation.

4.15 Why does lsof ignore AFS on my AIX system?

The lsof Configure script quits on AIX when AFS is present, the AIX version is greater than 4.3.3.0 or the AFS version is greater than 3.5. That's because I have no test systems available for those AIX and AFS version combinations.

When the lsof Configure script detects an AIX and AFS version combination that is unsupported, it will report:

```
  !!!FATAL: Lsof does not support
AFS on this combination of
     AIX and AFS versions.  To disable AFS, set the
     value of the AIX_HAS_AFS environment variable to
     "no".
```

The only work-around is to set the AIX_HAS_AFS environment variable as explained in the error message:

```
$ AIX_HAS_NSF=no; export AIX_HAS_NFS
$ ./Configure -n aix
```

4.16 Why does lsof report "system paging space is low" and exit?

When AIX paging space runs low, the AIX kernel sends a SIGDANGER signal to processes, warning them that they should reduce their memory usage.

When lsof receives that signal, it issues the following fatal error message and exits:

```
lsof: FATAL: system paging space is low.
```

A possible work-around is to limit the amount of information lsof must cache in its process memory with the "-c", "-g", "-l" and "-p" options.

Also see the answer to the "What can be done when lsof reports no more space?" question.

4.17 Why does lsof have a compilation problem on AIX 5.3 above maintenance level 1?

On some AIX 5.3 systems with maintenance levels 2 and higher installed, lsof 4.77 and below may not compile properly. The compiler complains the snapshotObject structure definition, needed by <j2/j2_inode.h>, is missing.

That problem is fixed in the 4.78 revision.

5.0 Apple Darwin Problems

5.1 What do /dev/kmem-based and libproc-based mean?

Lsof for Apple Darwin currently uses /dev/kmem to read kernel data structures from which it gathers and reports open file information. That version of lsof is called /dev/kmem-based lsof.

At an upcoming release lsof will use a library called libproc to obtain information about open files. That version of lsof wil be called libproc-based lsof.

The /dev/kmem-based lsof sources may be found in the kmem subdirectory of the dialects/darwin branch of the lsof source tree. When the supporting version of Apple Darwin is released, the libproc-based lsof sources will be found in .../dialects/darwin/libproc.

5.2 /dev/kmem-based Apple Darwin Questions

5.2.1 Why does Configure ask for a path to the Darwin XNU kernel header files?

When lsof was ported to Apple Darwin by Allan Nathanson at revision 4.53, some kernel header files needed by lsof weren't being exported by the developers. (That's still true at lsof revision 4.76.)

At first a shell script that Allan provided would get the missing header files by checking them out from the CVS

root. Although the script was updated from time to time,
eventually the re-organization of Darwin sources has made
it impossible to update the script to do an automatic
download of the missing header files.

At lsof revision 4.69 and above it is necessary for the Darwin
lsof builder to download the Darwin XNU kernel headers before
attempting to build lsof. The download my be done via a web
browser, starting at this URL:

    http://www.opensource.apple.com/darwinsource/index.html

Once there, select the link to the Mac OS X version that
matches the one on the
system where lsof is to be built.

Follow that link's "[Source]" link. Once there, select the
tar.gz link of the xnu* entry near the bottom of the page.
That entry should have a name that matches the xnu* name shown
by `uname -a` -- e.g., if uname reports:

```
$ uname -a
... root:xnu/xnu-517.7.21 ...
```

Then the appropriate xnu* entry is xnu-517.7.21. Clicking
its link should lead to an "Apple Open Source" page requesting
an Apple ID and password.

Enter them if they're available. If an Apple ID and password
are not available, get them by following the instructions on
the page -- i.e., follow the signin.apple.com link.

Once a valid Apple ID and its password have been entered,
the download will begin. Select the saving of the downloaded
xnu*.tar.gz file in an appropriate place on the Mac OS X
system.

Once the download completes, install it. Use gunzip to
decompress the download and tar to extract the archive -- e.g.,

```
$ gunzip -c xnu-517.7.21.tar.gz
| tar xf -
```

Remember the absolute path to the extracted archive. That is
its installed place. E.g., if the xnu-517.7.21.tar archive was
extracted to the lsof builder's home directory, its full
installation path will be something like:

~/xnu-517.7.21

Now run the lsof Configure script. When it asks for the path to the installed Darwin XNU kernel header files, supply the path to the gunzip'd and extracted xnu* archive -- e.g., ~/xnu-517.7.21.

The path to the Darwin XNU kernel headers may also be supplied to the Configure script in the DARWIN_XNUDIR environment variable, eliminating the need to enter it interactively -- e.g.,

```
$ DARWIN_XNUDIR=~/xnu-344.49 ./Configure -n darwin
```

5.2.1.1 Why does Configure complain that Darwin XNU kernel header files are missing?

These are some reasons why the lsof Configure script might claim that Darwin XNU header files are missing:

* The wrong path to them was specified.

* The files and directories in the path are not readable and searchable -- i.e., check the modes and ownerships.

* The downloaded archive doesn't match the Mac OS X version of the system.

If in doubt, revisit the Darwin XNU kernel header file download instructions in the answer to the question "Why does Configure ask for a path to the Darwin XNU kernel header files?"

If Configure still can't find Darwin XNU kernel header files, contact me via e-mail at <abe@purdue.edu> for help. Make sure "lsof" appears in the "Subject:" line so my e-mail filter won't classify your letter as Spam.

5.2.2 Why doesn't Apple Darwin lsof report text file information?

At the first port of lsof to Apple Darwin, revision 4.53, insufficient information was available -- logic and header files -- to permit the installation of VM space scanning for text files. As of lsof 4.70 it is sill not available.

Text file support will be added to Apple Darwin lsof after the necessary information becomes available.

5.2.3 Why
doesn't Apple Darwin lsof support IPv6?

At the first port of lsof to Apple Darwin, revision 4.53, Apple Darwin lacked IPv6 support. IPv6 became available in Apple Darwin version 1.5 and support for it was added to lsof then.

5.2.4 Why does lsof complain about a mismatch between the release for which lsof was compiled and the booted Mac OS X release?

When lsof is started on the "Gold Master" Darwin release (aka Mac OS X), it complains:

```
lsof: compiled for 1.0 release; this is 1.3.2.
```

This happens because the lsof binary released with Mac OS X was built on a system whose release number (1.0) doesn't match that of the released system -- usually 1.3.x Lsof makes this check because UNIX dialect OS changes are often accompanied by header file changes that affect lsof.

In this specific case, this error can be ignored. If you don't want to do that, get the lsof distribution and build lsof so its built-on and running-on Mac OS X release numbers match.

5.2.5 Why does
lsof for Apple Darwin 8 and higher report
"stat(...): ..." in the NAME column?

Lsof for Apple Darwin 8 may report messages like these in the NAME column:

```
stat(/private/var/run/asl_prune): No such file or directory
or
stat(/private/var/db/netinfo/local.nidb/Config): Permission denied
```

Those messages indicate that lsof was unable to collect open file information for the paths enclosed in "stat(...)" with the stat(2) function, because the function encountered the reported error.

A work-around for the "Permission denied" error is to run lsof with elevated privileges -- e.g., when logged on as the super user.

If the stat(2) error message is "No such file or directory", the file probably has been unlinked (removed) and there is no lsof work-around.

5.2.6 What are the limitations of Apple Darwin lsof link count reporting?

Lsof for Apple Darwin cannot report link count information reliably.

For Apple Darwin below 8 link count information is not always available
in the kernel node structures available to lsof.
When link count information is available, however, it includes link counts of zero. Thus, using lsof's +L1 option may result in the finding of some files whose link counts are zero.

Lsof can report only some link count information for Apple Darwin 8 and above. Link count information is only available for files where lsof can assemble the full file path and has permission to apply stat(2) to it. (See the answer to the "Why does lsof for Apple Darwin 8 and higher report "stat(...): ..." in the NAME column?" question for more information on stat(2) failures.)

Apple Darwin 8 and above files that have been unlinked and thus have a link count of zero cannot be found by stat(2) -- i.e., stat(2) returns a "No such file or directory" error. As a result lsof never displays link counts of zero and the use of lsof's +L1 option to find them always fails.

5.2.7 Why does Apple Darwin report process group IDs incorrectly?"

The
kmem version of lsof for Apple Darwin does not report process group IDs correctly when requested to do so with its ``-g" option. This is a bug that surfaced after the libproc version was released and access to kmem test systems has prevented patching the bug.

If you are using the kmem version and would like a fix for this problem, please send e-mail to me <abe@purdue.edu>. Make sure "lsof" appears in the "Subject:" line so my e-mail filter won't classify your letter as Spam.

5.3 Libproc-based Apple Darwin Questions

6.0 BSD/OS BSDI Problems

6.0.5 Statement of deprecation

As of lsof revision 4.76 support for BSDI BSD/OS has been dropped. The 4.76 distribution of lsof for BSDI BSD/OS may be found on lsof.itap.purdue.edu in pub/tools/unix/lsof/OLD/src.

7.0 DEC OSF/1, Digital UNIX, and Tru64 UNIX Problems

7.1 Why does lsof complain about non-existent /dev/fd entries?

When you run lsof for Digital UNIX 3.2, lsof may complain:

```
    lsof: can't lstat /dev/fd/xxx:
No such file or directory
    lsof: can't lstat /dev/fd/yyy: No such file or directory
```

(Or it may warn about other missing /dev/fd paths.) When you do an ``ls /dev/fd'' none of the missing paths are listed.

This is caused by a bug in the DEC library function getdirentries(). For some reason, when /dev/fd is a file system mount point, getdirentries() returns an incorrect size for it to readdir(). (Lsof calls readdir() in its ddev.c readdev() function.) Because of the incorrect size, readdir() goes past the end of the /dev/fd directory buffer, encounters random paths and returns them to lsof. Lsof then attempts to lstat(2) the random paths, gets error replies from lstat(2), and complains about the paths.

Duncan McEwan discovered this error and has reported it to DEC. Duncan also supplied an alternate readdir() function as a work-around. I've incorporated his readdir() in dialects/osf/ddev.c (as the static ReadDir() function) with some slight modifications, and enabled its use when the USELOCALREADDIR symbol is defined.

The Configure script defines USELOCALREADDIR for Digital UNIX version and 3.2. If you don't want to use Duncan's local readdir() function, edit the Makefile and remove -DUSELOCALREADDIR from the CFGF string. When DEC releases a corrected getdirentries() function, I'll modify the Configure script to stop defining USELOCALREADDIR.

7.2 Why does the Digital UNIX V3.2 ld complain about Ots* symbols?

When you compile lsof on your Digital UNIX V3.2 system, ld may complain:

```
ld:
Unresolved:
knlist
_OtsRemainder32Unsigned
_OtsDivide64Unsigned
_OtsRemainder64Unsigned
_OtsDivide32Unsigned
_OtsMove
_OtsDivide32
_OtsRemainder32
*** Exit 1
```

Chris Eleveld reports this happens on Digital UNIX V3.2 systems after the Fortran compiler has been installed.

The best work-around seems to be to remove -lmld from the CFGL string in the Makefile produced by Configure -- i.e., change:

```
CFGL=    -lmld
```

to

```
CFGL=
```

According to the V3.2 man page for nlist(3), this shouldn't work, but my testing shows that it does. Although I haven't been able to test this second work-around, you might try adding -lots to CFGL, rather than removing -lmld -- i.e., change:

```
CFGL=    -lmld
```

to

```
CFGL=    -lmld -lots
```

WARNING: my testing also shows that the V2.0 nlist(3) man page means what it says when it calls for -lmld -- lsof loaded without -mld under V2.0 can't locate the proc (process) table address.

DON'T REMOVE -lmld FROM THE DIGITAL UNIX V2.0 MAKEFILE.

If you run into this problem, please let me know what problem you encountered and how you solved it.

7.3 Why can't lsof locate named pipes (FIFOs) under V3.2?

While lsof for V3.2 can report on named pipes (FIFOs), it can't find them by name. That appears to happen because of the way the V3.2 kernel lstat(2) function reports named pipe device numbers.

The V3.2 kernel reports the device number as 0xffffffff, while the kernel structures for named pipes that lsof examines contain the device number of the file system on which the named pipe resides.

Consequently, lsof can't match the device and inode number pair it receives from applying lstat(2) to the named pipe with any device and inode number pair it finds when scanning kernel structures.

I don't have a work-around. You can, of course, ask for full lsof output and use a post-processing filer (e.g., grep) to locate the named pipe of interest.

This problem doesn't exist under V2.0.

7.4 Why does lsof use the wrong configuration header files? For example, why can't the lsof compilation find cpus.h?

DEC OSF/1, Digital UNIX, and Tru64 UNIX configuration header files describe the hardware and software environment for which your kernel boot file was constructed. For example, /sys/<name>/cpus.h defines the number of CPUs in its NCPUS #define.

Lsof searches for the configuration header file subdirectory in /sys (/usr/sys for Digital UNIX version 4.0 and Tru64 UNIX) by converting the first host name component to capital letters -- e.g., TOMIS is derived from tomis.bio.purdue.edu. If that subdirectory exists, lsof uses header files from it. (Configure reports what subdirectory is being used.)

If Configure doesn't find a host-name derived subdirectory, it prompts you for the entry of a subdirectory name. If you can't find one, quit Configure and run the kernel generation process to create a proper configuration sub-directory. If you don't identify a proper configuration subdirectory and you try to compile lsof, the compiler will complain about missing header files -- e.g., a missing

cpus.h.

Once you have located or generated a proper configuration subdirectory, rerun Configure. If you have generated a configuration subdirectory whose name is derived from the host name, Configure will find and use it. If not, you will have to specify its name to Configure.

7.5 Why does lsof indicate incomplete paths with " -- " for Tru64 UNIX 5.1 files?

When lsof can't find a component of a path in the kernel's name cache (aka DNLC), or can't determine that the left-most component has as its parent the file system root, it uses an "incomplete path" notation. That notation begins with the file system root name, followed by " -- ", followed by the consecutive path name components lsof was able to find in the DNLC -- e.g., "/ -- init".

Because the DNLC was significantly redesigned in Tru64 UNIX 5.1, lsof's handling of the cache had to be completely redone. As part of the DNLC redesign a name cache entry parameter lsof formerly used to locate the file system root of a path was removed. With help from Chang Song I've been able to implement an alternate method for detecting the root of these file system types: AdvFS (MSFS), CDFS, DVDFS, FDFS, NFS, NFS3, and UFS.

When lsof doesn't know how to identify the root for a file system type, it will resort to the " -- " incomplete path notation.

7.6 Why doesn't lsof report link count, node number, and size for some Tru64 5.x CFS files?

Lsof reports link count, node number, and size for open CFS files as recorded in their kernel node structure's cached attributes. Sometimes not all attributes are cached on the system where lsof runs, so lsof cannot report them.

7.7 Why does lsof say it can't read the kernel name list or proc table on Digital UNIX 4.x or Tru64 UNIX?

By default on Digital UNIX 4 and Tru64 UNIX lsof reads the addresses for kernel symbols with the knlist(3) function. That function can fail, for example, when the kloadsrv

daemon isn't running or is malfunctioning. When that happens, lsof may abort with one of these error messages:

```
lsof: can't read kernel name list from knlist(3): ...
or
lsof: can't read proc table info
```

The first message suggests a complete knlist(3) or kloadsrv failure; the second, a partial one.

If you know the name of the file from which the running system was booted, e.g., /vmunix, you can use lsof's -k option to direct it to read kernel symbol addresses from the name list of that file --

```
$ lsof -k /vmunix ...
```

If that works, then knlist(3) is malfunctioning and you need to fix it.

8.0 FreeBSD Problems

8.1 Why doesn't lsof report on open kernfs files?

Lsof doesn't report on open FreeBSD kernfs files because the structures lsof needs aren't defined in the kernfs.h header file in /sys/misc/kernfs.

8.2 Why doesn't lsof work on my FreeBSD system?

If lsof doesn't work on your FreeBSD system, first make sure you have the latest lsof revision. See the answer to the "Where do I get lsof?" question for information on how to get the latest lsof revision.

Once you have gotten the latest lsof revision, Configure and make it. If Configure fails -- e.g., it complains about an unknown FreeBSD version -- then lsof probably hasn't been ported to your FreeBSD version yet, and there's no need to go any further. Follow the answer to the "How do I report an lsof bug" to report the Configure complaint to me.

If you are able to Configure and make lsof, run its test suite. (See the answer to the "Is there a test suite?"

question for more information on how to use lsof's test suite.)

If lsof still fails, make sure your kernel sources, kernel header files, kernel boot file, standard header files and libraries are synchronized. They should all be built from the same CVS refresh. (Don't forget to do a "make buildworld" followed by a "make installworld".) If they aren't, then the KVM library or lsof may be using kernel structure definitions that don't match the booted kernel; or lsof may fail to compile properly because of header files in /usr/src/sys/sys and /usr/include/sys that don't match.

If you have synchronized your kernel, header files and libraries, and still can't get lsof to work, follow the steps in the answer to the "How do I report an lsof bug" question to report the problem to me.

8.3 Why doesn't lsof work on the RELEASE version of CURRENT?

Lsof tracks the CURRENT release of the current leading edge FreeBSD version, because my access to leading edge FreeBSD is limited to FreeBDSD.org reference systems, all running the CURRENT release.

Sometimes that tracking leads to changes in lsof that won't work on an earlier RELEASE version of the current leading edge version.

When that happens, please send e-mail to me <abe@purdue.edu>. Make sure "lsof" appears in the "Subject:" line so my e-mail filter won't classify your letter as Spam.

8.4 Why does kvm_open() complain it can't find some file?

If lsof issues this complaint:

```
lsof: kvm_open(execfile=/boot/kernel/kernel,
corefile=/dev/mem: No such file or directory
```

Your FreeBSD system might not have a /dev/mem device. If not, create one -- e.g., as root do:

```
# mknod /dev/mem c <major> 0
# chmod 440 /dev/mem
# chgrp kmem
```

/dev/mem

For <major> use /dev/kmem's major device number.

You may have to run kldload, too -- again as root do:

```
# kldload mem
```

8.5 FreeBSD ZFS Problems

8.5.1 Why does FreeBSD lsof report "WARNING: no ZFS support has been defined."?

Lsof issues that message when it detects a file on a ZFS file system, but has not been built with support for ZFS. Lsof's Configure script detects support can be added for ZFS when it finds this file:

/usr/src/sys/contrib/opensolaris/uts/common/fs/zfs/sys/zfs_znode.h

That header file and others in the OpenSolaris files in /usr/src enable lsof to extract information about ZFS files from the kernel structures associated with them.

8.6 Why can't Configure create lsof_owner.h for FreeBSD 6 and above?

Lsof may report:

```
   Creating ./lockf_owner.h from /usr/src/sys/kern/kern_lockf.c
   FATAL ERROR: can't read /usr/src/sys/kern/kern_lockf.c
   FATAL ERROR: ./lockf_owner.h creation failed (see 00FAQ)
or
   Creating ./lockf_owner.h
from /usr/src/sys/kern/kern_lockf.c
   FATAL ERROR: ./lockf_owner.h creation failed (see 00FAQ)
```

Those messages mean that lsof's Configure script failed to create a local header file, ./lockf_owner.h, needed to use the new kernel file locking code of some versions of FreeBSD 6 and above.

The changes that implement that new locking code alter the lockf structure in <sys/lockf.h> and introduce a new structure, lockf_entry, to that header file. When Configure detects the presence of the lockf_entry definition in <sys/lockf.h>, it tries to construct the local header file, ./lockf_owner.h.

Configure has to do that because an unfortunate side effect of

the new kernel file locking code is that <sys/lockf.h> doesn't contain the lockf_owner structure definition referenced in its own lockf structure. Lsof needs to access elements of that lockf_owner structure to determine if a lock belongs to the process that has a file open.

The missing lockf_owner structure definition is in the kernel source file, typically /usr/src/sys/kern/kern_lockf.c. Configure tries to extract the lockf_owner structure definition from kern_lockf.c into lsof's local header file, ./lockf_owner.h. If Configure can't do that, it reports:

```
FATAL ERROR: ./lockf_owner.h creation failed
```

If Configure can't even read kern_lockf.c, it first reports:

```
FATAL ERROR: can't read /usr/src/sys/kern/kern_lockf.c
```

The work-around for this problem is to update the FreeBSD kernel /usr/src tree (e.g., do a CVSup or csup) on the system where lsof is to be built and then do a "make buildworld" followed by a "make installworld".

8.6.1 Why are there lockf structure compiler errors for FreeBSD 6.0 and higher lsof?

If, when compiling lsof, the compiler complains with error messages like:

```
dnode.c: In function 'get_lock_state':
dnode.c:113: error: 'struct lockf' has no member named 'lf_flags'
dnode.c:115: error: 'struct lockf' has no member named 'lf_id'
...
```

Then lsof is being built on a system that has new kernel file locking code and lsof's Configure script failed to build a local lockf_owner.h header file with a structure definition lsof needs.

See the "Why can't Configure create lsof_owner.h for FreeBSD 6 and above?" section for more information and a work-around.

8.6.2 Why don't /usr/src/sys/sys/lockf.h and /usr/include/sys/lockf.h match?

This mismatch can cause the errors explained in the answer to

the "Why are there lockf structure compiler errors for FreeBSD 6.0 and higher lsof?" question.

If /usr/src/sys/sys/lockf.h has been updated with a CVSup or csup, the new lockf.h won't be propagated to /usr/include/sys until the "make buildworld" and "make installworld" steps have been completed.

8.7 FreeBSD and clang

As of lsof revision 4.87, lsof may be compiled with clang.

8.7.1 Why does clang complain about VOP_FSYNC?

There is an error in the Solaris ZFS compatibility vnode.h header file with use of VOP_FSYNC before it is defined. No work-around is possible that will eliminate the clang compile-time warning message about the invalid declaration of the VOP_FSYNC function.

9.0 HP-UX Problems

9.1 What do /dev/kmem-based and PSTAT-based mean?

Lsof for HP-UX 11.0 and below uses /dev/kmem to read kernel data structures from which it gathers and reports open file information. That version of lsof is called /dev/kmem-based lsof.

Starting with HP-UX 10.10, finding definitions for the necessary kernel structures became more difficult as HP no longer distributed header files in /usr/include that defined all kernel structures. So I started "inventing" structure definitions by using Q4 to display them.

By HP-UX 11, the process of invention became extremely intensive to support. Following a patch to the ipc_s structure in early 1999, my invented definition of that structure became incorrect. Although I was able to devise a work-around test for the patch with Q4, it was clear that my inventions were bound to cause more problems.

Discussion with HP about the patch led to my proposing that an lsof API in the HP-UX kernel was the proper solution. Much to my surprise, HP agreed. I believe Carl Davidson

was the prime mover behind that decision, but I know others participated, among them Louis Huemiller, Rich Rauenzahn, and Sailu Yallapragada. I am indebted to these folks and HP for their willingness to do this work.

The API was added to the PSTAT interface in a project named PEGL, Pstat Enhancements for Glance and Lsof. Louis and Sailu did the bulk of the design and implementation work and testing began in March, 2000

HP-UX 11.11 is the first version that provides PSTAT support for lsof. HP-UX versions in between 11.0 and 11.11 -- all Beta versions as far as I can determine -- have no lsof support.

See the "PSTAT-based HP-UX lsof Questions" section for questions and answers specific to PSTAT-based HP-UX lsof. The next section, "Why doesn't a /dev/kmem-based HP-UX lsof compilation use -O?" covers /dev/kmem-based HP-UX lsof.

The /dev/kmem-based lsof sources may be found in the kmem subdirectory of the dialects/hpux branch of the lsof source tree. The PSTAT-based lsof sources may be found in .../dialects/hpux/pstat.

9.2 /dev/kmem-based HP-UX lsof Questions

The sources for /dev/kmem-based lsof for HP-UX may be found in lsof_<revision>/dialects/hpux/kmem.

Lsof's Configure shell script decides to use these sources when it finds that the /usr/include/sys/pstat subdirectory doesn't exist.

Lsof can be forced to use the /dev/kmem sources by setting "/dev/kmem" in the HPUX_BASE environment variable. Consult the Configure shell script and 00XPORTING for more information.

9.2.1 Why doesn't a /dev/kmem-based HP-UX lsof compilation use -O?

If you only have the standard (bundled) HP-UX C compiler and haven't purchased and installed the optional one, then you can't use cc's -O option. The HP-UX cc(1) man page says
this:

"Options

Note that in the following list, the cc and c89 options
-A , -G , -g , -O , -p , -v , -y , +z , and +Z are
not supported by the C compiler provided as part of
the standard HP-UX operating system. They are supported
by the C compiler sold as an optional separate product."

Lsof's Configure script tries to detect what C compiler
product you have installed by examining your compiler. If
that examination reveals a standard (bundled) compiler,
lsof avoids using -O.

If the Configure compiler test fails, the C compiler will
complain that it doesn't support -O. You can suppress that
complaint with this make invocation:

```
$ make DEBUG=""
```

9.2.2 Why doesn't the /dev/kmem-based CCITT support work under 10.x?

Pasi Kaara, who originally provided the HP-UX CCITT support,
reports that it no longer works under HP-UX 10.x.
Consequently, at lsof revision 4.02 it has been disabled.

9.2.3 Why can't /dev/kmem-based lsof be compiled with
`cc -Aa` or
`gcc -ansi` under HP-UX 10.x?

Some HP-UX 10.x header files, needed by lsof, can't be
compiled properly in ANSI_C mode; structure element definition
and alignment problems result. The f_offset member of the
file structure, for example, is incorrect.

This ANSI-C obstacle extends to using the -Aa option of
the HP C compiler and the -ansi option of gcc.

9.2.4 Why does /dev/kmem-based lsof complain about no C compiler?

Lsof's Configure script looks in /bin and /usr/ccs/bin for
an HP C compiler, because it needs to know if the compiler
is the standard (bundled) one or the optional separate
product. If it finds no compiler in either place, Configure
quits after complaining:

```
No executable cc in /bin or /usr/ccs/bin
```

If you don't have a C compiler in either of these standard
places, you should consider installing it. If you have
gcc installed, you can use it by declaring the ``hpuxgcc''

abbreviation to lsof's Configure script.

If you have a C compiler
in a non-standard location, you
can use the HPUX_CCDIR[12] environment variables to name
the path to it. Consult the 00XCONFIG file of the lsof
distribution for more information.

9.2.5 Why does Configure complain about q4 for /dev/kmem-based lsof
for HP-UX 11?

When you run Configure on an HP-UX 11 system, it may complain:

```
!!!ERROR!!!    !!!ERROR!!!    !!!ERROR!!!    !!!ERROR!!!
Configure can't use /usr/contrib/bin/q4 to examine the ipis_s
structure.  You must do that yourself, report the result in
the HPUX_IPC_S_PATCH environment variable, then repeat the
Configure step.  Consult the Configure script's use of
/usr/contrib/bin/q4 and the 00XCONFIG file for information
on ipis_s testing and the setting of HPUX_IPC_S_PATCH.
!!!ERROR!!!    !!!ERROR!!!    !!!ERROR!!!    !!!ERROR!!!
```

This message states that Configure cannot use q4 from
/usr/contrib/bin to examine the kernel's boot image for
the ipis_s structure. Maybe q4 hasn't been installed,
or
perhaps Configure can't execute it.

Lsof needs to gather information about ipis_s to determine
if the ipis_s structure is defined in the kernel boot image,
if the ipis_s structure of the kernel boot image has an
ipis_msgsqueued member, and if the ipc_s structure of the
kernel boot image uses has an ipc_ipis member.

The ipis_s structure isn't described in any header file
HP-UX releases with HP-UX 11. It appears in the private
lsof header file .../dialects/hpux/kmem/hpux11/ipc_s.h.
Lsof gets local and remote connection addresses (IP and
port numbers) from ipc_s, so an incorrect ipc_s definition
may cause incorrect reporting of TCP/IP connection addresses.
It definitely will cause incorrect reporting on 32 bit
kernels. In any case lsof should be compiled with a correct
ipc_s definition no matter the kernel bit size, so the
Configure script always tests for it when the HP-UX version
is 11.

For lsof's Configure script to gather the necessary ipis_s
information q4

needs to be installed in /usr/contrib/bin
and the kernel boot image, /stand/vmunix, needs to have
been processed with pxdb. If either is untrue, lsof issues
the above error message, perhaps preceded by q4 messages.
(Note: lsof's use of q4 may also fail if q4 can't execute
nm -- e.g., it can't find /usr/bin/nm, or there is a
conflicting, private version of nm earlier in the path.)

If /stand/vmunix hasn't been processed by pxdb, the q4
messages will include:

```
   q4: (error) vmunix not pxdb'd
or
   q4: (warning) /stand/vmunix has not been processed by pxdb.
```

It's possible to make a suitable private copy of /stand/vmunix
for configuring lsof. That requires /opt/langtools/bin/pxdb
or the q4 version of pxdb from /usr/contrib/bin/q4pxdb.
The path to the result is supplied to the lsof Configure
script in the HPUX_BOOTFILE environment variable. Configure
still requires /usr/contrib/bin/q4.

The following sample Bourne shell commands make a private
copy of /stand/vmunix
in /tmp, process it with pxdb or
q4pxdb, and supply its path to lsof's Configure script in
HPUX_BOOTFILE.

```
   $ cp /stand/vmunix /tmp/vmunix.lsof

   $ /opt/langtools/bin/pxdb /tmp/vmunix.lsof
 or
   $ /usr/contrib/bin/q4pxdb /tmp/vmunix.lsof

   ... pxdb messages ...
   $ HPUX_BOOTFILE=/tmp/vmunix.lsof Configure -n hpux
```

It may also be necessary to use q4 outside the lsof Configure
script. In that case q4 can be to determine the state of
ipis_s and ipc_s with these q4 commands:

```
   $ /usr/contrib/bin/q4 /stand/vmunix
   ...
   q4> fields -c struct ipc_s
   ...
   q4> fields -c struct ipis_s
```

Look in the q4 output for the ipc_ipis member of the ipc_s

structure, and look in the q4 output for the ipis_s structure
for the ipis_msgsqueued member. If ipc_s has ipc_ipis but
ipis_s lacks ipis_msgsqueued, set HPUX_IPC_S_PATCH environment
variable to "1". If ipc_s has ipc_ipis and ipis_s has
ipis_msgsqueued, set HPUX_IPC_S_PATCH to "2" -- e.g.,

```
$ HPUX_IPC_S_PATCH=1
Configure -n hpux
```

or

```
$ HPUX_IPC_S_PATCH=2 Configure -n hpux
```

If ipc_s has no ipc_ipis member, set HPUX_IPC_S_PATCH to
"N" -- e.g., use this Configure step:

```
$ HPUX_IPC_S_PATCH=N Configure -n hpux
```

9.2.6 When compiling /dev/kmem-based lsof for HP-UX 11 what do the
"aCC runtime: ERROR..." messages mean?

When the lsof Makefile asks the HP-UX unbundled compiler
to load lsof, it may complain:

```
/bin/cc -o lsof  -DHPUXV=1100 -DHASVXFS -DHPUXKERNBITS=64 \
-I/home/abe/src/lsof4/dialects/hpux/kmem/hpux11 +DD64 \
-DHAS_IPC_S_PATCH=2 -I/home/abe/src/lsof4/dialects/hpux/kmem \
-DLSOF_VSTR=\"B.11.00\"  -g dfile.o dmnt.o dnode.o dnode1.o \
dnode2.o dproc.o dsock.o  dstore.o  arg.o main.o misc.o \
node.o print.o proc.o store.o usage.o -L./lib -llsof  -lelf \
-lnsl
aCC runtime: ERROR: Unexpected use of shared libraries
aCC runtime: ERROR: Read aCC manpage, +A option
/usr/lib/nls/loc/locales.1//is_IS.iso88591
```

This is a bug in the HP-UX national
language support.
(Notice the last message with "locales" in it?) Complain
to HP -- then use this work-around before executing make:

```
$ unset LANG
$ make
```

9.2.7 Why doesn't /dev/kmem-based lsof for HP-UX 11 report VxFS file
link counts, node numbers, and sizes correctly?

This is usually the result of running an lsof binary whose
revision number is less than 4.57 on a system that has
OnlineJFS support installed. It can also happen with lsof
4.57 binaries when the OnlineJFS support with which they

were built doesn't match the OnlineJFS status of the system
on which they are run.

The OnlineJFS status of lsof 4.57 and higher binaries can
be determined by running:

```
$ lsof -v 2>&1 | grep HASONLINEJFS
```

If that shell pipe produces output, lsof was compiled with
OnlineJFS support enabled; no output, disabled.

If OnlineJFS is installed on an HP-UX 11 system the
/sbin/fs/vxfs/subtype executable exists and outputs "vxfs3.3"
when run.

The problem occurs
because the optional OnlineJFS support
installation doesn't update <sys/fs/vx_inode.h>. Consequently
lsof can be compiled with an incorrect definition of the
vx_inode structure and look for for link counts, node
numbers, and sizes in the wrong places in the structure.

The current response I have gotten from HP is that no
<sys/fs/vx_inode.h> update will be provided for OnlineJFS.

I've addressed this problem temporarily with a work-around
(hack) in lsof revision 4.57.

9.2.8 Why can't /dev/kmem-based lsof be built with gcc for 64 bit
HP-UX 11?

When Configure is given the "hpuxgcc" abbreviation, the
HP-UX version is 11, and the kernel bit size is 64, the
lsof Configure script may abort with the messages:

```
!!!!!!!!!!!!!!!! FATAL ERROR !!!!!!!!!!!!!!!!!!

APPARENTLY GCC CANNOT BUILD 64 BIT EXECUTABLES.
A COMPILER MUST BE USED THAT CAN.  SEE 00FAQ
FOR MORE INFORMATION.
```

(This is the "more information" in 00FAQ.)

This means the Configure script compiled
a test program
with gcc the result wasn't an ELF-64 binary. Lsof tries
two gcc modes, one with no options and another with the
-mlp64 option, before it concludes gcc can't be used.

See the "How can I acquire a gcc for building lsof for 64 bit HP-UX 11?" answer for information on where you might be able to get a gcc for HP-UX 11 that can produce ELF-64 executables.

9.2.8.1 How can I acquire a gcc for building lsof for 64 bit HP-UX 11?

Check this HP URL:

http://h21007.www2.hp.com/dspp/tech/tech_TechSoftwareDetailPage_IDX/1,1703,547,00.html

(That's one very long link; be careful you cut 'n paste it all.)

In November 2001 that URL led to a web page whose title was "gcc for hp-ux 11." The page offered a link for downloading a 64 bit gcc 3.0 compiler for HP-UX 11.0 and 11i. Rich Rauenzahn of HP installed that compiler on an HP test system he allows me to use and I successfully built a 64 bit lsof with it.

The HP package may install the 64 bit capable gcc in /usr/local/pa20_64/bin/gcc, so you may have to adjust your path or set the LSOF_CC environment variable to compensate.

9.2.9 Why does /dev/kmem-based lsof for HP-UX 11 report "unknown file system type" for some open files?

The lsof binary being used probably doesn't have support for the VxFS file system.

To confirm that, check `lsof -v` output for "-DHASVXFS". If it's not present, lsof doesn't have VxFS support.

You also need to establish that lsof really is complaining about VxFS files by checking the kernel boot file for the symbol associated with the hexadecimal address reported in the "unknown file system type" message -- e.g., "v_op: 0x8711c8." Use nm(1) to do that:

```
$ nm -x /stand/vmunix | grep 8711c8
```

If nm reports the symbol associated with the address is vx_vnodeops, then lsof is complaining about an open VxFS file.

The solution in that case is to build lsof yourself (The

bundled C compiler will do it.), making sure that lsof's
Configure script detects
the presence of VxFS. Configure does
that by finding these two header files:

```
/usr/include/sys/fs/vx_hpux.h
/usr/include/sys/fs/vx_inode.h
```

If the system where you are building lsof doesn't have those
header files, but does have VxFS, you might be able to install
the header files by installing the HP JournalFS package from
the CoreOS CD -- in particular the file set JournalFS.VXFS-PRG
and its associated patch, PHKL_18543. (My thanks to Steve
Bonds for that information.)

Finally, if you find that lsof isn't complaining about VxFS
when it complains about an unknown file system type, send
e-mail to me <abe@purdue.edu> for further assistance. Make
sure "lsof" appears in the "Subject:" line so my e-mail filter
won't classify your letter as Spam.

9.2.10 Why does the ANSI-C compiler complain about comments in HP-UX
11 header files?

When compiling lsof on HP-UX 11, the HP ANSI-C compiler's
pre-processor, cpp, may complain about comments in HP-UX header
files
-- e.g.,

```
cpp: "/usr/include/sys/cdfs.h", line 232: warning 2028:
Found comment inside comment started on line 232.
cpp: "/usr/include/sys/cdnode.h", line 196: warning 2028:
Found comment inside comment started on line 196.
cpp: "/usr/include/nfs/snode.h", line 30: warning 2028:
Found comment inside comment started on line 30
```

This is not a problem with lsof. It is a problem with the
HP-UX header files; they have non-compliant ANSI-C comment
sequences in them -- e.g.,

```
<sys/cdfs.h>: 232
/* struct  cdfs *cdfs_link;  /* linked list of file systems */
```

The initial "/*" is not terminated by an ending "*/" before the
appearance of a second "/*".

9.2.11 Why does dnode1.c cause the HP-UX 11 compiler to complain that
<sys/fs/vx_inode.h> is missing or incorrect?

If CFLAGS in the lsof Makefile for an HP-UX 11 compilation includes HASONLINEJFS, indicating the system has OnlineJFS support, lsof needs the <sys/fs/vx_inode.h> header file. Sometimes it is missing
from /usr/include/sys/fs.

<sys/fs/vx_inode.h> is a header file that must be obtained from Veritas. If that proves impossible, please contact me via e-mail at <abe@purdue.edu>. Make sure "lsof" appears in the "Subject:" line so my e-mail filter won't classify your letter as Spam.

9.3 PSTAT-based HP-UX lsof Questions

The sources for PSTAT-based lsof for HP-UX may be found in lsof_<revision>/dialects/hpux/pstat.

Lsof's Configure shell script decides to use these sources when it finds that the /usr/include/sys/pstat subdirectory exists.

Lsof can be forced to use the PSTAT-based sources by setting "pstat" in the HPUX_BASE environment variable. Consult the Configure shell script and 00XPORTING for more information.

9.3.1 Why does PSTAT-based lsof complain about pst_static and other PSTAT structures?

When lsof starts it may issue one of these fatal error messages:

```
lsof: FATAL: can't determine PSTAT static size
lsof: FATAL: can't read <n> bytes of pst_static

lsof: FATAL: pst_static doesn't contain <name>_size
lsof: FATAL: <name>_size should be <n>
```

These messages indicate that lsof's tests for the proper level of PSTAT support have failed. The structure names, given in <name>, and sizes, given in <n>, identify the support deficiency more precisely.

You may need to upgrade the PSTAT support in your kernel to be able to use PSTAT-based lsof.

9.3.2 Why does PSTAT-based lsof complain it can't read pst_*

structures?

Lsof may put messages like the following in the NAME
column of its output.

```
can't read cwd pst_filedetails: Permission denied
can't read mem pst_filedetails: Permission denied
can't read rtd pst_filedetails: Permission denied
can't read txt pst_filedetails: Permission denied
can't read pst_filedetails: Permission denied
can't read 3 stream structures: Permission denied
can't read pst_socket: Permission denied
```

These messages indicate that the lsof binary lacks the
authority
to read the name structures for processes other
than ones belonging to the UID under which lsof is running.
Authority to read the structures of other processes is
limited to root processes -- i.e., lsof must have setuid-root
permission if it is to list open files for arbitrary
processes.

If you want to eliminate these errors, you must run lsof
as root or install it with setuid-root permission.

9.3.3 Why does PSTAT-based lsof rebuild the device cache file
after each reboot?

After each HP-UX rebuild, the first time a user runs lsof it
will report:

```
lsof: WARNING: device cache mismatch: /dev/tun...
lsof: WARNING: created device cache file: /<user_path>
```

This happens because the device numbers on /dev/tun* device
nodes are recalculated at each reboot. When lsof detects
a change in the device number of a /dev/tun* file, it rebuilds
its local device cache file.

9.3.4 Why doesn't PSTAT-based lsof report TCP addresses for
telnetd's open socket files?

When
lsof can't report TCP addresses for telnetd's open
socket files it is because an unpatched PSTAT kernel
interface doesn't report the addresses to lsof.

This has been addressed in PSTAT kernel patch PHKL_24047.

It is available from the HP IT Resource Center at:

http://itrc.hp.com

In the page's "maintenance / support" box select the "individual patches" link. Once at its page, select the "hp-ux" link. On that page select the "Series 800" or "Series 700" radio button and select "11.11" from the pull-down list to the right of the button. Under "search or browse the path list" select "Search by Patch IDs" from the pull down list, enter PHKL_24047 in the following text box, and select search. That should lead to information about PHKL_24047 and a link for downloading it. (You may have to log in first and you may have to create a login identity by registering before you can log in.)

Some time in March 2006 the PHKL_24047 patch was "lost" by the HP-UX networking lab. It has been "found" again in August 2006 and will be re-released as a GRO patch "some time." I don't yet know when that will be. You must contact HP to learn about the availability of the GRO patch.

9.3.5 Why does PSTAT-based lsof cause an HP-UX 11.11 kernel panic?

When PSTAT-based lsof runs on some HP-UX 11.11 kernels, the kernel may panic. Symptoms include:

Console message:
0xFBE000301100EF00 00000000 0000EF00 -
type 31 = legacy PA HEX chassis-code

/var/adm/syslog:
... vmunix: Trap Type 15 (Data page fault)
... vmunix: Instruction Address (pcsq.pcoq) = 0x...

The panic is caused by a bug in the way PSTAT's pstat_getstream() function obtains module names from streams managed by the otsam stream driver (part of OSI Transport Services). Lsof calls pstat_getstream() when it encounters an open otsam stream file. An HP-UX 11.11 system uses otsam if otsam appears in /stand/system.

HP-UX 11.11 patch PHKL_24507 (available some time after July 15, 2001) fixes the pstat_getstream() bug. See the information in the answer to the "Why doesn't PSTAT-based

lsof report TCP addresses for telnetd's open socket files?"
question for information on how to obtain the patch.

9.3.6 Why doesn't PSTAT-based lsof report a CWD that is on a loopback (LOFS) file system?

When PSTAT-based lsof reports on processes whose current working directory (CWD) is on a loopback file system, lsof can't report the open CWD file. The reason is that the HP-UX 11.11 and above kernel's loopback file system code is not passing the CWD file ID to the kernel's pstat(2) code. Hence lsof is given no information on the lofs CWD.

The problem was first reported to me by Ermin Borovac and an internal bug report was filed with the HP-UX file system group on October 26, 2004. That report has now been answered by the patch PHKL_33200 -- s700_800 11.11 lofs cumulative patch. The HP IT Resource Center (http://itrc.hp.com) is a source for the patch.

9.3.7 Why
do some swinstall packages for PSTAT-based HP-UX 11.11 packages complain about setgid and setuid bits?

First, let me explain that I do not provide lsof swinstall packages for lsof. Others provide them and they should be contacted about problems with their packages.

However, I have become aware of a problem with one package about which I have some information I can share. The problem shows up in these swinstall messages:

```
ERROR:   Unknown owner and/or group for file
  "/usr/local/bin/lsof". SUID and/or SGID bit was
  not set.
ERROR:   Failed installing fileset "lsof.lsof-RUN,r=4.73".
  Check the above output for details.
```

The swpackage SUID/SGID functionality was restricted by changes for POSIX compliance, breaking backward compatibility. The patch PHCO_27671 allows SUID/SGID for uid/gid of 0 only, as a compromise between backward compatibility and POSIX conformance.

If the setuid bit is to be set on the executable, the UID
and
GID of the executable must be 0 (zero).

9.3.8 Why won't the bundled C compiler build PSTAT-based lsof for

PA-RISC HP-UX 11.23?

A PA-RISC HP-UX 11.23 bundled C compiler dated May 2005 or later will not build PSTAT-based lsof. It will deliver error messages related to the system's <gssapi/gssapi.h> header file.

There is nothing wrong with that header file or lsof. The problem is that the bundled C compiler can't cope with the gssapi.h header file.

The work-around is to use the HP ANSI C compiler. Using gcc is not a satisfactory work-around. See the answer to the "Why won't gcc build PSTAT-based lsof for PA-RISC HP-UX 11.23?" question for more information.

9.3.9 Why won't gcc build PSTAT-based lsof for PA-RISC HP-UX 11.23?

Gcc will not even compile PSTAT-based lsof revisions below 4.77 for PA-RISC HP-UX 11.23 dated May 2005 or later. It reports errors in lsof's print.c fill_portmap() function about missing members of the rpcent structure. That happens because gcc defines _XOPEN_SOURCE_EXTENDED which disables the definition of the rpcent structure in <netdb.h>.

Using the HP bundled C compiler is not a viable work-around. That is explained in the answer to the "Why won't the bundled C compiler build PSTAT-based lsof for PA-RISC HP-UX 11.23?"

While an lsof revision 4.77 or higher can be compiled with gcc, the results are unreliable. Lsof will compile, but it occasionally produces segment faults when it runs. I have not been able to reproduce the failure reliably or locate a debugger that will work with the gcc-compiled lsof.

The only reliable work-around is to use the HP ANSI C compiler.

9.3.10 Why does PSTAT-based lsof complain, "FATAL: pst_stream_size should be: 672; is 72" on HP-UX 11.11 and above?

This message indicates a mismatch between the PSTAT header files used to build lsof (<sys/pstat.h> and those in the /usr/include/sys/pstat subdirectory), and those that built the running kernel.

Unfortunately the June

2008 patch set for HP-UX 11.23 creates
this inconsistency, because it does not contain all the patches
needed to match the kernel with the PSTAT header files. Even
more serious is that the missing patches update the kernel's
PSTAT support to provide TCP/UDP endpoint information to lsof
from TCP/TLI streams.

The patch inconsistency comes about because, while the following
patch is installed,

PHKL_36577 1.0 PM-PSTAT section 2 manpage changes

other kernel patches are not.

The PHKL_36577 patch updates the PSTAT header files and manual
pages to match kernel changes that other patches with the
following numbers (or patches that contain or supersede them)
contain:

PHNE_36575 1.0 Cumulative STREAMS Patch
PHNE_37670 1.0 cumulative ARPA Transport patch
PHNE_37851 1.0 NFS cumulative patch

Those patches implement the kernel changes that support the
delivery of information promised in patch PHKL_36577.

The work-around is to install the missing patches.

9.4 Why
won't the HP-UX depot install?

I don't distribute lsof depots, so I can't support them.

From time to time depots prepared by various sites -- e.g.,
usually HP-UX software collection sites -- will contain errors
that cause installation of the depot to fail.

Do not contact me when this happens. Instead, contact the
administrator of the site that prepared the depot.

As should be clear from the bulk of the lsof documentation, I
do not recommend you use pre-built lsof binaries in any form.
Instead, I recommend you obtain the lsof source distribution
and build lsof yourself.

10.0 Linux

10.1 What do /dev/kmem-based and /proc-based lsof mean?

At approximately Linux 2.1.72 and exactly at lsof revision 4.23 support for Linux forks. The first fork, containing the oldest lsof form is based on access to kernel memory structures, and is called /dev/kmem-based lsof. A /dev/kmem-based lsof is heavily intertwined with the Linux kernel version, its header files,
and its system map file.
Typically a /dev/kmem-based lsof needs only setgid permission to local all open file information.

After approximately Linux 2.1.72 and at revision 4.23 lsof obtains all its information from the /proc file system. That lsof is called the /proc-based lsof. A /proc-based lsof does not read kernel memory, needs neither kernel header files nor the system map file, and is less likely to be affected by Linux kernel changes. However, it does require setuid-root permission to list all open files, and it can't report file offsets (positions).

After revision 4.52 the /dev/kmem-based Linux sources for lsof are no longer distributed. Information about them may be found in the 00INDEX and README files at:

ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/OLD/src

10.2 /proc-based Linux lsof Questions

10.2.1 Why doesn't /proc-based lsof report file offsets (positions)?

/proc-based lsof revisions 4.79 and above can only report file offsets (positions)
for the files of Linux kernels 2.6.22 and above.

During its initialization /proc-based lsof tests to see if offset information can be obtained. If it cannot, lsof disables offset reporting. If the -o option was selected, lsof also issues this warning:

```
lsof: WARNING: can't report offset; disregarding -o.
```

10.2.2 Why does /proc-based lsof report "can't identify protocol" for some socket files?

/proc-based lsof may report:

```
COMMAND PID ... TYPE ... NODE NAME
pump    226 ... sock ...  309 can't identify protocol
```

This means that it can't identify the protocol (i.e., the AF_* designation) being used by the open socket file. Lsof identifies protocols by matching the node number associated with the /proc/<PID>/fd entry to the node numbers found in selected files of the /proc/net sub-directory. Currently /proc-based lsof examines these protocol files:

```
/proc/net/ax25  (untested)
/proc/net/icmp
/proc/net/ipx  (needs kernel patch)
/proc/net/netlink

/proc/net/packet
/proc/net/raw
/proc/net/raw6
/proc/net/sctp/assocs
/proc/net/sctp/eps
/proc/net/sockstat
/proc/net/sockstat6
/proc/net/tcp
/proc/net/tcp6
/proc/net/udp
/proc/net/udp6
/proc/net/udplite
/proc/net/udplite6
/proc/net/unix
```

If /proc-based lsof says it can't identify the protocol for an open socket file, you may be able to identify the protocol yourself by using grep to look for the specific node number in the files of /proc/net -- e.g.,

```
$ grep <node_number> /proc/net/*
```

You may not be able to find the desired node number, because not all kernel protocol modules fully support /proc/net information.

If you find a matching node number in a /proc/net file that is not currently being processed by lsof, contact me via e-mail at <abe@purdue.edu>. I'll discuss adding support to /proc-based lsof for the protocol of the /proc/net file with you. Make sure "lsof" appears in the "Subject:"

line so my e-mail filter
won't classify your letter as Spam.

The code that matches node numbers of open IPX protocol
socket files to those in /proc/net/ipx requires Jonathan
Sergent's Linux 2.1.79 patch to /usr/src/linux/net/ipx/af_ipx.c.
The patch, suitable for input to Larry Wall's patch program,
may be found in the lsof distribution file:

.../dialects/linux/proc/patches/net_ipx_af_ipx.c.patch

10.2.3 Why does /proc-based lsof warn about unsupported formats?

Lsof may issue the following warning:

lsof: WARNING: unsupported format: /proc/net/<file>

if the header line of the indicated <file> in /proc/net --
ax25, ipx, raw, tcp, udp, or unix -- doesn't match what
lsof expects to find.

When the header line of a /proc/net file isn't what lsof
expects, lsof probably can't parse the rest of the file
correctly and doesn't try. As a result, lsof can't report
any NAME column information (e.g., local and remote addresses)
for socket files bound to the indicated
network protocol.

If you get this warning, please send me e-mail at <abe@purdue.edu>.
Include the contents of the file lsof claims has an unsupported
format. Make sure "lsof" appears in the "Subject:" line so my
e-mail filter won't classify your letter as Spam.

10.2.4 Why does /proc-based lsof report "(deleted)" after a path name?

The "(deleted)" notation following a path name in /proc-based
lsof's NAME column comes from the /proc/<PID>/fd/<FD> entry
for the open file. It's the Linux kernel's way of indicating
the file is open but has been unlinked (rm'd).

10.2.5 Why doesn't /proc-based lsof report full open file information
for all processes?

/proc-based lsof can only report on processes whose /proc
files it has permission to read. /proc normally grants
permission to read all its files only to root or to the
owning user ID.

Without permission to read most /proc files, lsof can only
report full information for processes belonging to the user
who is running
lsof. /proc-based lsof may be able to report
some information for all processes, depending on the
permissions of their associated /proc files, but usually
/proc-based lsof won't be able to access the files in
/proc/<PID>/fd/ that describe regular open files.

If you want /proc-based lsof to report on all processes, you
must install it with setuid-root permission.

10.2.6 Why won't Customize offer to change HASDCACHE or WARNDEVACCESS
for /proc-based lsof?

/proc-based lsof doesn't read device information from /dev
or the device cache file, so it makes no sense to change
the state of device cache processing or /dev node accessibility
warnings.

10.2.7 /proc-based lsof Linux NFS questions

10.2.7.1 Why can't lsof find files on an accessible NFS file system?

On occasion lsof may be unable to identify that an open
file is on an NFS file system. This is most likely the
result of a bug in the way the Linux kernel supplies
information to the reader of /proc/mounts (lsof) --
sometimes
that pseudo-file is truncated by the kernel.

One way to see if this is the case is to search for the
NFS file system in /proc/mounts -- e.g.,

```
$ grep <NFS_file_system_mount_point> /proc/mounts
```

If you get no output or the third word of the output isn't
"nfs", then lsof won't consider the file system an NFS file
system.

A second test is to look at the end of /proc/mounts --
e.g.,

```
$ tail /proc/mounts
```

If tail reports "# truncated" then /proc/mounts is incomplete
because of a Linux kernel bug. The bug is documented at:

http://www.xss.co.at/sysinfo/mounts.html

The bug is fixed in Linux kernel 2.4.18, and possibly in some earlier Linux kernel versions.

10.2.7.2 Why can't lsof find files on an inaccessible NFS file system?

If lsof issues this message about a Linux file system, mounted from an NFS server:

lsof: WARNING: can't stat() nfs file system /xxx/yyy

Then lsof won't be able to find any open files on the file system.

That's because of an inadequacy in the Linux /proc file system. Its /proc/mounts file doesn't give the device doublet (major and minor numbers) of the file system as do many UNIX systems (e.g., Solaris). The only way lsof can get the device doublet for a Linux file system is to call stat(2) on the file system path, which fails if the NFS server isn't accessible.

When lsof doesn't know the device doublet of a file system, it can't find open files on the inaccessible file system, because it can't match the doublets of open files to the doublet of the inaccessible file system.

This topic is covered extensively in lsof(8) it its ALTERNATE DEVICE NUMBERS and BLOCKS AND TIMEOUTS sections.

10.2.8 Why doesn't /proc-based Linux lsof report socket options and values, socket state flags, and TCP options and values?

The Linux /proc file system doesn't report socket options and values, socket states, and TCP options and values to lsof.

10.2.9 Does /proc-based Linux lsof use a device cache?

No.
The Linux /proc/<PID>/fd/* entries provide device names to lsof via readlink(2). It is not necessary to enable device cache processing for /proc-based Linux lsof via the Customize script or modifications to the Linux machine.h header file.

10.2.10 Why doesn't /proc-based Linux lsof report any or all file structure

values for its +fcfgGn option?

/proc-based lsof revisions 4.79 and above can only report some file structure values for Linux kernels below 2.6.22.

When running on Linux kernels at 2.6.22 and above lsof 4.79 can report some file flag values -- i.e., in response to the +fg or +fG options. The flag values are obtained from the /proc/<PID>/fdinfo/ files introduced at Linux kernel 2.6.22.

/proc-based Linux lsof tests its availability to obtain file flag values at initialization. If values are not available, lsof disables file flag reporting. If the flags were requested with +fg or +fG, lsof displays this warning:

```
lsof: WARNING: can't report
file flags; disregarding +f.
```

As a special note, when Linux lsof can report flag bits, it will not report 'R' for a read-only file. There is no read-only flag bit O_* symbol in <fcntl.h> (or <bits/fcntl.h>) and lsof reports only bits that are set. The absence of O_RDWR and O_WRONLY flag bits implies the file is read-only.

10.3 Special Linux file types

10.3.1 Why is ``DEL'' reported as a Linux file type?

Lsof usually reports entries from the Linux /proc/<PID>/maps file with ``mem'' in the TYPE column. However, when lsof can't stat(2) a path in the process' ``maps'' file and the ``maps'' file entry contains ``(deleted)'', indicating the file was deleted after it had been opened, lsof reports the file type as ``DEL''.

10.3.2 Why is ``unknown'' reported as a Linux file type?

Lsof may report a Linux file's type as ``unknown'' in the TYPE column when lsof can't obtain complete stat(2) results for the file.

Usually the NAME column will contain a ``(stat: xxx)'' error message,
but that could have been suppressed with the lsof ``-w'' option.

10.4 Linux ``mem'' Entry Problems

10.4.1 What do ``path dev=xxx'' and ``path inode=yyy'' mean in the NAME column of Linux ``mem'' file types?

When the device or inode number in the process' ``maps'' file entry doesn't match the stat(2) results from the file path, lsof reports the inconsistent information from the stat(2) of the path parenthetically after the path in the NAME column in one of these forms:

(path dev=xxx) only the device number, ``xxx'', from a stat(2) of the ``maps'' file entry path differs from the ``maps'' file entry value reported in the DEVICE column.

(path inode=yyy) only the inode number, ``yyy'', from a stat(2) of the ``maps'' file entry path differs from the ``maps'' file entry value reported in the NODE column.

(path dev=xxx inode=yyy) Both device and inode numbers differ.

Lsof reports the ``maps'' file device number in the DEVICE column and the inode number in the NODE column.

When device and inode mismatches occur, lsof suppresses the reporting of link count and size. See the answer to the "Why is neither link count nor size reported for some Linux ``DEL'' and ``mem'' file types?" question for more information.

Device and inode inconsistencies can occur when a file at a ``maps'' path is replaced after the process has started, or when a different file system with similar path names is mounted on top of the original file system.

The device inconsistency parenthetical messages can be suppressed with lsof's ``-w'' option.

10.4.2 Why is neither link count nor size reported for some Linux ``DEL'' and ``mem'' file types?

Link count and size are not reported for some entries from the process' ``maps'' file because a stat(2) of the entry file path

failed or stat(2) delivered device or inode numbers that don't match the ones in the ``maps'' entry.

When the stat(2) device or inode numbers don't match those in the ``maps'' file entry, it is likely that the stat(2) results don't apply to the file that was originally mapped by the process and whose path appears in the ``maps'' file entry, so lsof tries to avoid reporting possibly incorrect information.

See the answer to the "What do ``path dev=xxx'' and ``path inode=yyy'' mean in the NAME column of Linux ``mem'' file types?" for more information on how mismatched stat(2) device and inode numbers are reported.

10.5 Special Linux NAME column messages

10.5.1 What does ``(stat: xxx)'' mean in the NAME column of Linux files?

When lsof tried to stat(2) the path in the NAME column, the stat(2) system call failed and produced an error message of ``xxx''.

This situation usually occurs if the lsof process lacks permission to stat(2) the path -- e.g., the lsof executable lacks root permission, or lsof is attempting to stat(2) a path on an NFS device mounted with the root_squash option.

The message can be suppressed with lsof's ``-w'' option.

10.5.2 What does ``(readlink: xxx)'' mean in the NAME column of Linux files?

When lsof tried to convert the /proc/<PID>/fd path, reported in the NAME column, to its full and more meaningful path, the readlink(2) system call used to do the conversion failed. The readlink(2) failure message is ``xxx''.

This situation usually occurs if the lsof process lacks permission to readlink(2) some part of the path -- e.g., the lsof executable lacks root permission, or lsof is attempting to stat(2) a path on an NFS device mounted with the root_squash option.

The message can be suppressed with lsof's ``-w'' option.

10.6 Why is ``NOFD'' reported as a Linux file type?

When lsof lacks permission to use opendir() on the fd/ subdirectory of a process' /proc/<PID> directory, it reports a single file of the type ``NOFD'' (for no file descriptors).

Lsof reports the the /proc/<PID>/path in the NAME column, followed
by "(opendir: xxx)", where ``xxx'' is the error
message returned by opendir().

The ``NOFD'' entry can be suppressed with lsof's ``-w'' option.

10.7 Why does Linux lsof report a NAME column value that begins with ``/proc''?

When lsof has problems processing a ``/proc/<PID>'' entry -- e.g., it can't convert the entry to a full and more meaningful path name, or it can't access the /proc/<PID>/fd subdirectory with opendir() -- it will report the /proc/<PID> path in the NAME column.

10.8 Linux /proc/net/tcp* and /proc/net/udp* issues

10.8.1 Why use the Linux -X option?

If you're not interested in TCP/IP socket information for a particular use of lsof, adding the -X option will make lsof run more quickly, because -X inhibits the reading of the /proc/net/tcp* and /proc/net/udp* files. For example, you may only be interested in knowing what process has a particular file open.

When the Linux system has a large number of open TCP/IP socket files, the time savings provided
by -X can be significant.

10.8.2 Why does lsof say ``-i is useless when -X is specified''?

If -X is specified, lsof can't report much information on open TCP/IP socket files. However, lsof's -i option requests that information. Hence, the two options conflict and can't be used together.

10.8.3 Why does lsof say ``can't identify protocol (-X specified)''?

If the Linux lsof -X option is specified and an open socket file can't be identified without accessing the /proc/net/tcp*

and /proc/net/udp* files, lsof will report that it can't identify the socket's protocol and that the failure may be caused by the -X specification

11.0 NetBSD Problems

11.1 Why doesn't lsof report on open kernfs files?

Lsof doesn't report on open NetBSD kernfs files because the structures lsof needs aren't defined in the kernfs.h header file in /sys/misc/kernfs.

11.2 Why doesn't lsof report on open files on: file descriptor file systems; /proc file systems; 9660 (CD-ROM) file systems; MS-DOS (floppy disk) file systems; or kernel file systems?

Lsof is not able to report on open files on certain file system if /usr/src/sys/msdosfs didn't exist when the lsof Configure script ran and lsof was made. /usr/src/sys/msdosfs contains header files lsof needs for collecting data on certain file system files.

You can tell if an lsof executable above) lacks support for a file system if the following test of `lsof -v` produces nothing:

```
$ lsof -v 2>&1 | grep <support_enabled_definition>
```

The <support-enabled_definition> will be:

```
File System Type Definition Note
---------------- ---------- ----
File descriptor HASFDESCFS
/proc  HASPROCFS
9660  HAS9660FS
MS-DOS  HASMSDOSFS (lsof 4.61 and above)
Kernel  HASKERNFS
```

The work-around is to install /usr/src/sys, rerun the lsof Configure script, and remake lsof.

11.3 Why does lsof produce confusing results for nullfs file systems?

Consider this report from /sbin/mount:

```
    /usr/home
on /home type null (local)
```

(According to /sbin/mount /usr/home is the mounted-on device and /home is the mounted-on directory.)

When lsof is asked to report on open files on /home, it will report them as files on /usr/home instead. That's an artifact of the NetBSD kernel's dynamic name lookup cache (DNLC) and the way the kernel handles nullfs mounted-on directories.

While lsof will report all open files on /home when given /home as a file system directory argument, even though reporting them as located on /usr/home, lsof will not find the same files when asked to report on all open files on /usr/home when given /usr/home as a file system device argument. That's because from the mount perspective /usr/home is equivalent to a device, but from the device perspective it is still a directory.

So, what this lsof command reports:

```
    $ lsof /home
    ... NAME
    ... /usr/home/...
```

Won't be duplicated by this lsof command:

```
    $ lsof /usr/home
```

Another way
to look at this confusing /home and /usr/home
example is to consider what stat(2) reports. For /home stat(2) reports a device doublet that matches what lsof finds in open file node structures, while the device doublet stat(2) reports for /usr/home won't match what lsof finds. Nor does the mode reported by stat(2) indicate a block devices, as is the expected case.

There is no simple answer to this confusion, nor is there even a simple explanation. Simply be aware that when supplying file system arguments to lsof on NetBSD, use the mounted-on directory name for a nullfs as the lsof argument, and don't be surprised when the NAME column reports the mounted-on device name.

11.4 NetBSD header file problems

11.4.1 Why can't the compiler find some NetBSD header files?

If the compiler's pre-processor complains it can't find some header files when it compiles lsof source files, /usr/include and /usr/src may not have all the header files lsof needs.

As a work-around use the NETBSD_SYS environment variable to specify to lsof the location of the additional header files -- e.g.,

```
% setenv NETBSD_SYS /my_source
% ./Configure -n netbsd
```

or

```
$ NETBSD_SYS=/mys_source ./Configure -n netbsd
```

Caution: using this work-around may cause the lsof Configure script to activate or omit different features, depending on where it finds the header files that determine the state of the features.

11.4.2 Why does NetBSD lsof produce incorrect output?

If the NetBSD system's kernel was built from header files that don't match those in /usr/include -- e.g., //usr/src has the ones from which the kernel was built -- lsof may build, but won't produce correct output.

As a possible work-around, try directing the C compiler to select header files from /usr/src before it selects them from /usr/include. That can be done with the DEBUG make string -- e.g.,

```
$ make DEBUG="-I/usr/src -I/usr/include"
```

If that work-around fails, try using the LSOF_INCLUDE and NETBSD_SYS environment variables to swap /usr/include and /usr/src when running the Configure script, then use the make DEBUG string when running make -- e.g.,

```
$ LSOF_INCLUDE=/usr/src; export LSOF_INCLUDE
$ NETBSD_SYS=/usr/include; export NETBSD_SYS
$ ./Configure -n netbsd
$ make DEBUG="-I/usr/src -I/usr/include"
```

11.5 Why isn't lsof feature xxx enabled for NetBSD?

Lsof's Configure script enables NetBSD features by locating and examining header files associated with the features, and based on what it finds, setting compile-time definitions in Makefiles. (See 00PORTING for a list of the definitions.)

When Configure doesn't find header files or doesn't find appropriate values in header files, that may mean the header file tree lsof is searching is incomplete or out of date.

Lsof normally looks for NetBSD header files in /usr/include. It can also be directed to look in other directories -- e.g., /sys -- if told to do so with the contents of the LSOF_INCLUDE
and NETBSD_SYS environment variables.

To determine what header file enables a missing feature, check the NetBSD stanza in the Configure script. Then check the locations it checks for the indicated header files and contents.

See 00XCONFIG for more information on LSOF_INCLUDE and and NETBSD_SYS.

12.0 NEXTSTEP and OPENSTEP Problems

12.1 Why can't lsof report on 3.1 lockf() or fcntl(F_SETLK) locks?

Lsof has code to test for locks defined with lockf() or fcntl(F_SETLK) under NEXTSTEP 3.1, but that code has never been tested. I couldn't test it, because my NEXTSTEP 3.1 lockf() and fcntl(F_SETLK) functions return "Invalid argument" every way I have tried to invoke them.

If your NEXTSTEP 3.1 system does allow you to use lockf() and fcntl(F_SETLK) and lsof doesn't report locks set with them, then the code in .../dialects/next/dnode.c probably isn't correct. Please contact me via e-mail at <abe@purdue.edu> and tell me how you got your lockf() and fcntl(F_SETLK) system
calls to work. Make sure "lsof" appears in the "Subject:" line so my e-mail filter won't classify your letter as Spam.

12.2 Why doesn't lsof compile for NEXTSTEP with AFS?

I no longer have a NEXTSTEP test system that has AFS.
Changes to lsof since I once had a test system have caused
me to change the AFS code in NEXTSTEP without being able
to test the changes.

If you need AFS support for NEXTSTEP and can't get it to
compile, please contact me. Perhaps we can jointly fix
the problems.

13.0 OpenBSD Problems

13.1 Why doesn't lsof support kernfs on my OpenBSD system?

Lsof supports the kernel file system on OpenBSD versions
whose /sys/miscfs/kernfs/kernfs.h (or <miscfs/kernfs/kernfs.h>
header file correctly defines the kern_target structure.
The lsof Configure script's openbsd stanza checks for the
presence of the structure's kt_name element and activates
kernfs support for the CFLAGS -DHASKERNFS definition only
when it finds kt_name.

The kernfs.h header
file is scheduled to be updated in the
OpenBSD 2.1 release, according to Kenneth Stailey, who
authored its changes.

13.2 Will lsof work on OpenBSD on non-x86-based architectures?

I've not tested lsof on an OpenBSD system that uses a
non-x86-based architecture, but I've had one report that
lsof 4.33 compiles and works on OpenBSD for the pmax
architecture (decstation 3100).

13.3 <sys/pipe.h> problems

13.3.1 Why does the compiler claim nbpg isn't defined?

When compiling lsof on some (older) OpenBSD SPARC versions,
the compiler may complain:

```
In file included from ../dlsof.h:191,
    from ../lsof.h:166,
    from fino.c:52:
/usr/include/sys/pipe.h:83: `nbpg' undeclared here
(not in a function)
/usr/include/sys/pipe.h:83: size of array `ms' has
non-integer type
```

This happens because <sys/pipe.h> uses NBPG from
<machine/param.h> to size the `ms' array, and some OpenBSD
systems define NBPG in terms of a kernel integer variable,
nbpg.

Lsof
revisions 4.46 and above have a hack to dlsof.h,
developed by Volker Borchert that avoids the compiler
problem for SPARC OpenBSD 2.3. The hack might work for
other OpenBSD SPARC versions, but hasn't been tested there.

If you want to enable the hack for your OpenBSD SPARC
version, modify this code in .../dialects/n+obsd/dlsof.h:

```
# if    defined(OPENBSDV)
#  if   OPENBSDV==2030 && defined(__sparc__)
#   if  defined(nbpg)
#undef  nbpg
#   endif       /* defined(nbpg) */
#define nbpg    4096            /* WARNING!!!  ... */
#  endif        /* OPENBSDV==2030 && defined(__sparc__) */
#include <sys/pipe.h>
#endif  /* defined(OPENBSDV) */
```

You will probably want to change the second #if test to
match your OpenBSD version. You may also want to change
what value is assigned to nbpg. See the next section,
"What value should I assign to nbpg?"

13.3.2 What value should I assign to nbpg?

If you need to enable the nbpg hack, described
in "Why does
the compiler claim nbpg isn't defined?", you may also need
to assign a value other than 4096 to nbpg. 4096 works for
the sun4c processor and should work for sun4m, but 8192
may be needed for sun4.

Check <machine/param.h> and other OpenBSD documentation to
determine the correct nbpg assignment.

13.4 Why doesn't lsof report on open MS-DOS file system (floppy
disk) files?

Lsof is not able to report on open MS-DOS file system files
if /usr/src/sys/msdosfs didn't exist when the lsof Configure
script ran and lsof was made. /usr/src/sys/msdosfs contains

header files lsof needs for collecting data on MS-DOS file system files.

You can tell if an lsof executable (revisions 4.61 and above) lacks MS-DOS file system support if the following command reports nothing:

```
$ lsof -v 2>&1 | grep HASMSDOSFS
```

The work-around is to install /usr/src/sys, rerun the lsof Configure script, and remake lsof.

13.5 Why isn't lsof feature xxx enabled for OpenBSD?

Lsof's Configure script enables OpenBSD features by locating and examining header files associated with the features, and based on what if finds, setting compile-time definitions in Makefiles. (See 00PORTING for a list of the definitions.)

When Configure doesn't find header files or doesn't find appropriate values in header files, that may mean the header file tree lsof is searching is incomplete or out of date.

Lsof normally looks for OpenBSD header files in /usr/include and /sys. It can also be directed to look in other directories if told to do so with the contents of the LSOF_INCLUDE and NETBSD_SYS environment variables.

To determine what header file enables a missing feature, check the OpenBSD stanza in the Configure script. Then check the locations it checks for the indicated header files and contents.

See 00XCONFIG for more information on LSOF_INCLUDE and and NETBSD_SYS.

14.0 Output Problems

14.1 Why do the lsof column sizes change?

Lsof dynamically sizes its output columns each time it runs to make sure that each column takes the minimum space. Column parsing -- e.g., with awk -- is possible, because each column is guaranteed to be separated from the preceding one by at lease one space, and no column except the last

(NAME) contains embedded spaces.

14.2 Why does the offset have ``0t' and ``0x'' prefixes?

The offset value that appears in the SIZE/OFF column has ``0t' and ``0x'' prefixes to distinguish it from size values that may appear in the same column.

Normally if the offset value is less than 100,000,000 (8 digits), it appears in decimal with a ``0t' prefix; over 99,999,999, in hexadecimal with a ``0x'' prefix.

A decimal offset is handy, for example, when tracking the progress of an outbound ftp transfer. When lsof reports on the ftp process, it will report the size of the file being sent with its open descriptor; it will report the progress of the transfer via the offset of the outbound open ftp data socket descriptor.

The
``-o [n]'' option may be used to specify the maximum number of decimal digits to be printed after ``0t'' before lsof switches to the hexadecimal digits after `0x''. As already noted, the default decimal digit count is 8.

14.3 What are the values printed in the FILE_FLAG column and why is 0x<value> sometimes included?

The two comma separated lists, separated by a semicolon, printed in the FILE-FLAG column (when the "+fg" option is specified), are short-hand names or hexadecimal values for the bits lsof finds in the f_flag or f_flags member of file structures for files (the first list, the one before the semicolon), and process open files flags found in various kernel structures, often named "pofile" (the second list, the one after the semicolon).

Lsof determines the short-hand names from symbols in the <fcntl.h>, <linux/fs.h>, <sys/fcntl.h>, <sys/fcntlcom.h>, o<sys/file.h>, and <sys/user.h> header files.

See the discussion of FILE-FLAG in the OUTPUT section
of
the lsof man page, and the FF_* and POF_* symbols in lsof.h for a list of the names.

Bits with no names defined for them are represented by an 0x<value> member of the comma-separated list -- a hexadecimal

integer. When "+fG" is specified (instead of "+fg"), lsof will list all flag values as two hexadecimal integers, separated by a semicolon.

When "-FG" is specified to get the flags in an output field, the format defaults to hexadecimal. You can get names instead by following "-FG" with "+fg" -- e.g.,

```
$ lsof -FG +fg ...
```

However, when you precede "-FG" with "+fg" -- e.g.,

```
$ lsof +fg -FG
```

the format will be hexadecimal; order is important.

14.3.1 Why doesn't lsof display FILE_FLAG values for my dialect?

All versions of lsof except the /proc-based Linux lsof report FILE-FLAG values. Lsof can't obtain FILE-FLAG information from the Linux /proc interface.

14.4 Network Addresses

14.4.1 Why does lsof's -n option cause IPv4 addresses, mapped to IPv6, to be displayed in IPv6 notation?

When you use the -n option to tell lsof to display numeric network addresses, and an IPv4 address has been mapped to IPv6, lsof displays the address in IPv6 format and puts "ipv4" in the TYPE column. That combination indicates the IPv4 address has been mapped to IPv6.

For example, the IPv4 address 1.2.3.4, when mapped to an IPv6 address, will be displayed by lsof as:

```
[::ffff:1.2.3.4]
```

The enclosing brackets are lsof's signal that this is an IPv6 address. Inside the brackets is a standard IPv6 address, reported by inet_ntop(). The first two colons, signifying zeroes in the first 64 bits of the IPv6 address, and the hexadecimal ffff in the next 32 bits, indicate that the last 32 bits contains a mapped IPv4 address, which is then displayed in IPv4 dot notation.

14.5 Why does lsof output \x, ^x, or \xnn for characters

sometimes?

Lsof displays only printable ASCII characters. Lsof considers a character printable if isprint(3) says it is. If isprint(3) says a character isn't printable, the lsof may page explains:

> "... Non-printable characters are printed in one of three forms: the C ``\[bfrnt]" form; the control character `^' form (e.g., ``^@"); or hexadecimal leading ``\x" form (e.g., ``\xab"). Space is non-printable in the COMMAND column (``\x20") and printable elsewhere."

14.5.1 Why is space considered a non-printable character in command names?

Space is considered an unprintable character in command names because it is sometimes possible to hide the full command name from scripts that parse ps(1) output by embedding a space in the name.

14.6 Why doesn't lsof print all the characters of a command name?

By default lsof prints the first nine characters of the names of commands associated with processes. If more characters are required, the "w" value of the "+c w" option may be used to specify a larger width.

If "w" is zero ('0') lsof will print all characters of all command names up to the limit of the number of characters supplied by the particular UNIX dialect. When reporting command names, lsof replaces non-printable characters as discussed in the answer to " Why does lsof output \x, ^x, or \xnn for characters sometimes?"

See the answer to the "Why is space considered a non-printable character in command names?" question for an explanation of why spaces are replaced by the ``\x20" representation in command names.

The number of command name characters supplied to lsof by UNIX dialects in files and structures varies by dialect. For example, Linux 2.4.27 supplies lsof the first 15 characters of command names and Solaris 9 supplies 16. Thus, even if "w" is zero ('0'), lsof can't report more characters for command names

on those two UNIX dialects than they provide lsof.

14.7 Why does lsof reject some -c command names, saying their lengths are "> what system provides (nn)"?

The command name length that a specific system provides varies from dialect to dialect. As noted in the answer to the "Why doesn't lsof print all the characters of a command name?" question, Linux and Solaris provide a limited number of command name characters.

When more characters are specified in the parameter to the -c option, lsof considers it an error and issues a fatal error message -- e.g.,

```
lsof: "-c xxxxyyyy" length (8) > what system provides (7)
```

The only work-around is to specify no more characters to -c that the system provides to lsof.

14.8 Why does lsof sometimes print TYPE numbers instead of names?

When lsof can't convert a type number to a name for printing in the TYPE column, it will report the number as four octets.

14.9 Marker line format problems

14.9.1 Why won't lsof accept a marker line format?

Lsof's Configure script must find the localtime(3) and strftime(3) functions in the dialect's C library in order to enable support for marker line formats.

Check the output of lsof's -v option for the presence of -DHAS_STRFTIME in the compiler flags. If it isn't there, Configure didn't find the necessary two C library functions.

If you think lsof should have found the functions, make a copy of the C test program in the Configure script that it uses to find the functions. Then use the copy, or a more informative modification of it, to learn why Configure can't find the functions. You can find that program by searching for strftime.

14.9.2 Why does lsof reject the NL (%n) marker line format?

When repeat mode and field output (with -F) have both been specified, lsof won't allow new line (NL) formats to be specified with ``%n''. That's because the marker line is always guaranteed to be a single line.

There is no work-around to this restriction.

14.10 How are protocol state name exclusion and inclusion used?

Protocol state name inclusion and exclusion with the ``-s p:s'' option and its arguments have some issues to consider. Note: the ``-s
p:s'' option is only available when the help output, obtained with -h or -?, shows it; it was a recent addition to lsof and is supported only on dialects where it could be tested.

First, there is the problem of determining what state names, if any, the dialect produces. Try running this lsof command to find them:

```
$ lsof -i
```

Knowing the state names of interest, the next problem is to decide on the lsof options and their parameters that will produce the desired output. Here some examples are probably the most useful.

To list only TCP socket files in LISTEN and CLOSE_WAIT states, use:

```
$ lsof -itcp -stcp:listen,close_wait
```

or

```
$ lsof -iTCP -sTCP:LISTEN,CLOSE_WAIT
```

Case isn't important to lsof in protocol and state names.

To exclude TCP socket files in CLOSE_WAIT state, use:

```
$ lsof -itcp -stcp:^close_wait
```

Note the `^' preceding close_wait; it selects exclusion. You can mix included and excluded names in a comma separated list, but you may not
include and exclude the same name for the same protocol.

To list TCP files in LISTEN state and UDP files in Idle state,

use:

```
$ lsof -i -stcp:listen -sudp:idle
```

Note: if you don't accompany the ``-s p:s'' list option and
argguments with the -i option, lsof will list all other regular
files, while applying the specified inclusion and exclusion
specifications to network files. Generally, then, you want to
use -i with -s.

14.10.1 Why doesn't my dialect support state name exclusion and inclusion?

When state name inclusion and exclusion was added, I had access
to test systems for AIX, Darwin, FreeBSD, Linux, PSTAT-based
HP-UX and Solaris.

Therefore, I was unable to add and test the support to any other
UNIX dialects.

If a dialect has the support, then the HASTCPUDPSTATE definition
in its machine.h header file will be active; if not, it will be
absent or commented out.

If your dialect doesn't have the support and you want it added,
you will have to provide me Internet
access to a test host, where
I can compile lsof and have the credentials to test the changes
the support requires. If that's possible for you, please contact
me via e-mail at <abe@purdue.edu>. Make sure "lsof" appears in
the "Subject:" line so my e-mail filter won't classify your letter
as Spam.

15.0 Pyramid Version Problems

15.0.5 Statement of deprecation

As of lsof revision 4.52 support for all Pyramid versions has
been dropped. Contact me via e-mail at <abe@purdue.edu> if you
are interested in obtaining the last lsof Pyramid distribution.
Make sure "lsof" appears in the "Subject:" line so my e-mail
filter won't classify your letter as Spam.

16.0 SCO Problems

16.1 SCO OpenServer Problems

16.1.1 How can I avoid segmentation faults when compiling lsof?

If you have an older SCO OpenServer compiler, it may get a segmentation fault when compiling some lsof modules. That appears to happen because of the -Ox optimization action requested in the lsof Makefile.

Try
changing -Ox to -O with this make invocation:

```
$ make DEBUG=-O
```

Bela Lubkin supplied this tip and Steve Williams verified it.

16.1.2 Where is libsocket.a?

If you compile lsof and the loader says it can't find the socket library, libsocket.a, called by the -lsocket option in the lsof compile flags, you probably are running an SCO OpenServer release earlier than 5.0 and don't have the TCP/IP Development System package installed.

You may have the necessary header files, because you have the TCP/IP run-time package installed, but if you don't have the TCP/IP Development System package installed, you won't have libsocket.a.

Your choices are to install the TCP/IP Development System package or upgrade to OpenServer Release 5.0. You will find libsocket.a in 5.0 -- you'll find all the libraries and header files there, in fact -- and you can use gcc to compile lsof if you don't want to install the 5.0 Development System package.

16.1.3 Why do I get "warning C4200" messages when I compile lsof?

When you compile lsof under OSR 3.2v4.2 (and perhaps under earlier versions as well), you may get many compiler warning messages of the form:

```
node.c(183) : warning C4200: previous declarator is not
compatible with default argument promotion
```

In my opinion this is a bug in the OSR compiler. Because the compiler cannot handle full ANSI-C prototypes, it assumes default types for function parameters as it encounters

untyped in a function prototype -- e.g., in this function
declaration from node.c,

```
    readrnode(ra, r)
 KA_T ra;
 struct rnode *r;
    {
    ...
```

the compiler assigns default int types to the ra and r
arguments.

Then, when the compiler encounters the fully typed parameters
after the function skeleton and sees parameters with types
that don't match the assumptions it previously made, it
whines about its own assumptions.

You can ignore these messages.

16.2 SCO|Caldera UnixWare Problems

16.2.1 Why doesn't lsof compile on my UnixWare 7.1.1 or above system?

When you Configure lsof with the "uw" abbreviation and try
to compile it for UnixWare 7.1.1, you may get compiler
error messages like this:

```
    UX:acomp: ERROR: "dproc.c", line 98:
 undefined struct/union member: p_pgidp
```

This suggest that you probably have a non-stop cluster
UnixWare 7.1.1 system. Its <sys/proc.h> header file differs
from the one on the system where I did the lsof port to
UnixWare 7.1.1. I currently don't have access to a non-stop
cluster system to be able to develop changes to lsof that
would make it compile and work there.

If you have a non-stop cluster UnixWare 7.1.1 system, want lsof
for it, and can offer me a test account on the system, please
contact me via e-mail at <abe@purdue.edu>. Make sure "lsof"
appears in the "Subject:" line so my e-mail filter won't
classify your letter as Spam.

If you have a system with nsc_cfs and can offer me a test
account on it, please contact me via e-mail

at <abe@purdue.edu>.
Make sure "lsof" appears in the "Subject:" line so my e-mail filter won't classify your letter as Spam.

16.2.2 Why does lsof complain about node_self() on my UnixWare 7.1.1 or above system?

If lsof exits immediately after issuing this message:

```
can't identify process NSC node; node_self(): <message>
```

It means that lsof has been built to run on a NonStop Cluster (NSC) UnixWare 7.1.1 or higher system and can't get the number of the node on which it is running. Lsof uses the node number to determine the path to the kernel boot file.

You can tell if lsof has been built for NSC by looking for "-DHAS_UW_NSC" in lsof's "-v" option output.

If the system on which you're trying to run lsof isn't running an NSC kernel, you will need to build a non-NSC lsof.

16.2.3 Why does UnixWare 7.1.1 or above complain about -lcluster, node_self(), or libcluster.so?

When you build, compile, and load lsof for UnixWare 7.1.1 and above, ld may complain that it can't find the -lcluster library or that the node_self symbol is undefined. When you try to run an existing lsof binary it may complain that libcluster.so can't be found.

These messages mean the tests made by Configure on your system led it to believe your system is running a NonStop Cluster (NSC) kernel, or the lsof binary you're trying to use was built on a NonStop Cluster system. If an lsof binary was built for NSC, this shell command produces output:

```
$ strings <lsof_binary> | grep HAS_UW_NSC
```

If that's not the case, and you can rebuild lsof, set the UW_HAS_NSC environment variable to "N" and do this:

```
$ Configure -n clean
$ UW_HAS_NSC=N
```

```
$ export UW_HAS_NSC
$ Configure -n uw
$ make
```

You can also edit Makefile and lib/Makefile. Remove -DHAS_UW_NSC from the CFGF strings. Remove -lcluster from the CFGL strings. Then run make again.

If you have an existing NSC lsof binary and you want one for a non-NSC system, you will have to build lsof yourself on
the system where you want to use it. (That's always a good idea anyway.)

16.2.4 Why does UnixWare 7.1.1 or above lsof complain it can't read the kernel name list?

If lsof complains:

```
can't read kernel name list from <path>
```

It means that lsof can't find the booted kernel image file at <path>. On NonStop Cluster (NSC) UnixWare 7.1.1 or higher systems lsof determines the booted file path by examining this file:

```
/stand/`node_self`/boot
```

If examining that file doesn't lead to an NSC path, lsof uses:

```
/stand/1/unix
```

On non-NSC systems lsof expects the booted kernel image to be in /stand/unix.

If your booted kernel image is in a different place, use lsof's "-k <path>" option to specify its path.

16.2.5 Why doesn't lsof report link count, node number, and size for some UnixWare 7.1.1 or above CFS files?

Lsof reports link count, node number, and size for open CFS files as recorded in their kernel node structure's cached attributes. Sometimes
not all attributes are cached
on the node where lsof runs, so lsof cannot report them.

16.2.6 Why doesn't lsof report open files on all UnixWare 7.1.1 NonStop Cluster (NSC) nodes?

Lsof can only report on files open on the node on which it runs, because the information lsof reports comes from the private kernel memory of the node. This may mean that asking lsof to find a specific open file, or use of a specific Internet address or port, may not report all open instances on nodes other than the one used to run lsof.

You can use the NSC onnode(1) command to run lsof on specific nodes, or the onall(1) command to run lsof on all nodes -- e.g.,

```
$ onall lsof [options] 2>&1 | less
```

or

```
$ onnode node-number lsof [options] 2>&1 | less
```

Note that, when lsof is run all nodes, the path name component assembly results it reports in its NAME column may vary, because the dynamic name cache from which lsof gets the components is private to the kernel of each node.

Also note the use of shell redirection in the examples to merge the standard error file information from onnode and onall with lsof's standard output file output. That will put the onnode and onall node announcements in proper sequence with lsof's output.

16.2.7 Why doesn't lsof report the UnixWare 7.1.1 NonStop Cluster (NSC) node a process is using?

To induce lsof to report the node on which a process runs would be a significant, non-standard modification to lsof. It has much wider implications than merely the printing of a number in an output column. I'm not currently (April 2001) prepared to undertake such a modification.

If you want node-specific NSC information about open files, run lsof under the control of onall(1) or onnode(1).

```
$ onall lsof [options] 2>&1 | less
```

or

```
$ onnode node-number lsof [options] 2>&1 | less
```

16.2.8 Why does the compiler complain about missing UnixWare 2.1[.x]

header files?

SCO|Caldera didn't ship the following header files
with
UnixWare 2.1 through 2.1.3:

<fs/proc/prdata.h>
<fs/procfs/prdata.h>
<sys/fs/fifonode.h>
<sys/fs/namenode.h>

Lsof needs those header files for its compilation. Contact
SCO|Caldera to get copies of those header files.

If you can't get the header files from SCO|Caldera, please
contact me via e-mail at <abe@purdue.edu>. Make sure "lsof"
appears in the "Subject:" line so my e-mail filter won't
classify your letter as Spam.

17.0 Sun Problems

17.0.5 Statement of deprecation

Lsof support for SunOS 4.1.x was last tested at revision 4.51.
Contact me via e-mail at <abe@purdue.edu> if you're interested in
obtaining it. Make sure "lsof" appears in the "Subject:" line so
my e-mail filter won't classify your letter as Spam.

17.1 My Sun gcc-compiled lsof doesn't work -- why?

Gcc can be used to build lsof successfully. However, an
improperly installed Sun gcc compiler will usually not
produce a working lsof.

If your Sun gcc-compiled lsof doesn't report
anything, or
reports ``can't read proc table," or gcc refuses to compile
lsof without error, check that the gcc step that "fixes"
Sun header files was run on the system where you're using
gcc to compile lsof. As an alternative, if you have the
SunPro C 5.0 compiler or later available, use it to compile
lsof -- e.g., use the solariscc Configure abbreviations.

17.2 How can I make lsof compile with gcc under Solaris 2.[456], 2.5.1, 7, 8 or 9?

Presuming your gcc-specific header files are wrong for

Solaris, edit the lsof Configure-generated Makefile and
lib/Makefile and make this change:

```
 CFGF=   -Dsolaris=20400 ...
to
 CFGF=   -Dsolaris=20400 -D__STDC__=0 -I/usr/include ...
```

or change:

```
 CFGF=   -Dsolaris=20500 ...
to
 CFGF=   -Dsolaris=20500 -D__STDC__=0 -I/usr/include ...
```

or change:

```
 CFGF=   -Dsolaris=20501 ...
to
 CFGF=   -Dsolaris=20501 -D__STDC__=0 -I/usr/include ...
```

This is only a temporary work-around. You really should
instruct gcc to to update your
gcc-specific header files
or install a recent gcc (e.g., 3.2), which has no need for
private copies of Solaris include files.

17.3 Why does Solaris Sun C complain about system header files?

You're probably trying to use /usr/ucb/cc if you get compiler
complaints like:

```
cc -O -Dsun -Dsolaris=20300 ...
"/usr/include/sys/machsig.h", line 81: macro BUS_OBJERR
redefines previous macro at "/usr/ucbinclude/sys/signal.h",
line 444
```

Note the reference to "/usr/ucbinclude/sys/signal.h". It
reveals that the BSD Compatibility Package C compiler is
in use. Lsof requires the ANSI C version of the Solaris
C compiler, usually found in /usr/opt/bin/cc or
/opt/SUNWspro/bin/cc.

Try adding a CC string to the lsof Makefile that points to
the Sun ANSI C version of the Sun C compiler -- e.g.,

```
CC= /usr/opt/bin/cc
```

or

```
CC= /opt/SUNWspro/bin/cc.
```

17.4 Why doesn't lsof work under my Solaris 2.4 system?

If lsof doesn't work under your Solaris 2.4 system -- e.g., it
produces no output, little output, or the output is
missing command names or file descriptors -- you may have
a pair of conflicting Sun patches installed.

Solaris patch 101945-32 installs a kernel that was built
with a <sys/auxv.h> header file whose NUM_*_VECTORS
definitions don't match the ones in the <sys/auxv.h> updated
by Solaris patch 102303-02.

NUM_*_VECTORS in the kernel of patch 101945-32 are smaller
than the ones in the <sys/auxv.h> of patch 102303-02. The
consequence is that when lsof is compiled with the <sys/auxv.h>
whose NUM_*_VECTORS definitions are larger than the ones
used to compile the patched kernel, lsof's user structure
does not align with the one that the kernel employs.

If you have these two patches installed, contact Sun and
complain about the mis-match.

You may be able to work around the problem by editing
/usr/include/sys/auxv.h to have the following NUM_*_VECTORS
definitions:

```
    #define NUM_GEN_VECTORS 4
    #define NUM_SUN_VECTORS
8
```

The Configure script issues a prominent WARNING that you should
try the work-around.

I thank Leif Hedstrom for identifying the offending patches.

17.5 Where are the Solaris header files?

If you try to compile lsof under Solaris and get a compiler
complaint that it can't find system header files, perhaps
you forgot to add the header file package, SUNWhea.

17.6 Where is the Solaris /usr/src/uts/<architecture>/sys/machparam.h?

When you try to Configure lsof for Solaris 2.[23456], 2.5.1,
and 7 -- e.g., on a `uname -m` == sun4m system -- Configure
complains:

```
  grep: /usr/src/uts/sun4m/sys/machparam.h:
No such file or directory
  grep: /usr/src/uts/sun4m/sys/machparam.h:
No such file or directory
```

And when you try to compile the configured lsof, cc or gcc complains:

```
  dproc.c:530: `KERNELBASE' undeclared (first use this function)
```

The explanation is that somehow your Solaris system doesn't have the header files in /usr/src/uts it should have. Perhaps someone
removed the directory to save space. Perhaps you're using a gcc installation, copied from another system. In any event, you will have to load the header files from the SUNWhea package of your Solaris distribution.

KERNELBASE is an important symbol to lsof -- it keeps lsof from sending an illegal kernel value to kvm_read() where a segmentation violation might result (a bug in the kvm library). Lsof can get illegal kernel values because it reads kernel values slowly with kvm_read() calls that the kernel is changing rapidly.

Lsof doesn't need KERNELBASE at Solaris 2.5 and above, because it has a KERNELBASE value whose address lsof can find with /dev/ksyms and whose value it can read with kvm_read(). Under Solaris 2.5 /usr/src/uts has moved to /usr/platform.

17.7 Why does Solaris lsof say ``can't read proc table''?

When lsof collects data on processes, using the kvm_*() functions to scan the kernel's proc structure table, it checks to make sure it has
identified a reasonable number
of them -- a minimum of three. When lsof can't identify three processes during a scan, it repeats the scan.

When five scans fail to yield three processes, lsof issues the fatal message:

```
 lsof: can't read proc table
```

and exits.

Usually lsof fails to identify three processes during a

scan because its idea of the form of the proc structure differs from that being used by the kernel. Since the proc structure is defined in <sys/proc.h> and other /usr/include header files, the root cause of a proc structure discrepancy usually can be found in the composition of /usr/include.

One common way that /usr/include header files can be incorrect is that gcc was used to compile lsof, gcc used its special (i.e., "fixed") header files instead of the ones in /usr/include, and the special gcc header files weren't updated when Solaris was. Answers to these questions:

My Sun gcc-compiled lsof doesn't work -- why?

How can I make lsof compile with gcc under Solaris 2.[456], 2.5.1, 7, 8 or 9?

Why does Solaris Sun C complain about system header files?

discuss the gcc header file problem and offer suggestions on how to fix it or work around it.

It may also be that you are trying to run a version of lsof that was compiled on an older version of Solaris. For example, an lsof executable, compiled for Solaris 2.4, will produce the ``can't read proc table'' message if you try to run it under Solaris 2.5. If you have compiled lsof under Solaris 2.5 and it still won't work, see if the header files in /usr/include have been updated to 2.5, or still represent a previous version of Solaris.

Another source of header file discrepancies to consider is the Solaris patch level and whether a binary kernel patch was not matched with a corresponding header file update. See the "Why doesn't lsof work under my Solaris 2.4 system?" question for an example of one in Solaris 2.4 -- there may be other such patch conflicts I don't know about.

17.8 Why does Solaris lsof complain about a bad cached clone device?

When lsof revisions below 4.04 have been run on a Solaris system and have been allowed to create a device cache file, the running of revisions 4.04 and above on the same systems may produce this complaint:

lsof: bad cached clone device: ...

```
lsof: WARNING: created device cache file: ...
```

This is the result of a change in the device cache file
that took place at lsof revision 4.04. The change introduced
a node number into the clone device lines of the device
cache file and was done in such a way that lsof could detect
device cache files whose clone lines don't have node numbers
(lines created by previous lsof revisions) and recognize
the need to regenerate the device cache file.

17.9 Why doesn't Solaris make generate .o files?

Solaris /usr/ccs/bin/make won't generate .o files from .c
files if /usr/share/lib/make/make.rules is missing. It
may be found in and installed
from the SUNWsport package.

17.10 Why does lsof report some Solaris 2.3 and 2.4 lock types as `N'?

For Solaris 2.3 with patch P101318 installed at level 45
or above, and for all versions of Solaris 2.4, NFS locks
are represented by a NFS-specific kernel lock structure
that sometimes lacks a read or write lock type indicator.
When lsof encounters such a lock structure, it reports the
lock type as `N'.

17.11 Why does lsof Configure say "WARNING: no cc in ..."?

When lsof's Configure script is executed with the solariscc
abbreviation it tries to make sure it's using the Sun C
compiler and not the UCB substitute from /usr/ucb/cc.
Thus, it looks for cc in the "standard" Sun compiler
location, /opt/SUNWspro/bin.

If Configure can't find cc there, it issues the warning:

```
lsof: WARNING: no cc in /opt/SUNWspro/bin;
using cc without path.
```

and uses cc for the compiler name, letting the shell find
cc with its PATH environment variable.

You can tell Configure where
to find your cc with the
SOLARIS_CCDIR cross-configuration environment variable.
(See 00XCONFIG for more information on SOLARIS_CCDIR).
For example, use this Configure shell command:

```
SOLARIS_CCDIR=/usr/special/bin Configure -n solariscc
```

(SOLARIS_CCDIR should be the full path to the directory containing your cc.)

17.12 Solaris 7, 8 and 9 Problems

17.12.1 Why does lsof say the compiler isn't adequate for Solaris 7, 8 or 9?

Solaris 7, 8 and 9 kernels come in two flavors, 32 and 64 bit. 64 bit kernels run on machines that support the SPARC v9 instruction set architecture. Separate executables for some programs, -- e.g., ones using libkvm like lsof -- must be built for 32 and 64 bit kernels.

Previous Sun (e.g., SC4.0) and earlier gcc compilers will build lsof for 32 bit kernels, but they won't build it for 64 bit kernels. Compilers that will build lsof for 64 bit Solaris 7, 8 and 9 kernels are the Sun WorkShop Compilers C 5.0 and above, and recent gcc versions, e.g., 3.2.

When given the ``-xarch=v9'' flag, the C 5.0 compiler and above, and associated loader and 64 bit libraries will build a 64 bit lsof executable; when given the "-m64" or "-mcpu=v9" (deprecated) flags, an appropriate gcc compiler will build a 64 bit lsof executable.

When the lsof Configure script detects a 64 bit kernel is in use (e.g., by executing `/bin/isainfo -kv`), and when it finds that the specified compiler is inappropriate, it complains with these messages:

For gcc:

```
"!!!WARNING!!!=========!!!WARNING!!!=========!!!WARNING!!!"
"!                                                        !"
"! LSOF NEEDS TO BE CONFIGURED FOR A 64 BIT KERNEL, BUT  !"
"! THIS GCC DOESN'T SUPPORT THE BUILDING OF 64 BIT       !"
"! SOLARIS EXECUTABLES.  LSOF WILL BE CONFIGURED FOR A   !"
"! 32 BIT echo KERNEL.                                   !"
"!                                                        !"
"!!!WARNING!!!=========!!!WARNING!!!=========!!!WARNING!!!"
```

For
Sun C:

```
!!!WARNING!!!==========!!!WARNING!!!==========!!!WARNING!!!
!                                          !
! LSOF NEEDS TO BE CONFIGURED FOR A 64 BIT KERNEL, BUT    |
! THE VERSION OF SUN C AVAILABLE DOESN'T SUPPORT THE      !
! -xarch=v9 FLAG.  LSOF WILL BE CONFIGURED FOR A 32 BIT   !
! KERNEL.                                    !
!                                          !
!!!WARNING!!!==========!!!WARNING!!!==========!!!WARNING!!!
```

17.12.2 Why does Solaris 7, 8 or 9 lsof say "FATAL: lsof was compiled for..."?

Solaris 7, 8 or 9 lsof may say:

```
lsof: FATAL: lsof was compiled for a xx bit kernel,
but this machine has booted a yy bit kernel.

Where: xx = 32 or 64
yy = 64 or 32

(xx and yy won't match.)
```

This message indicates that lsof was compiled for one size kernel and is being asked to execute on a different size one. That's not possible for programs like lsof that use libkvm.

Depending on the instruction sets for which you need Solaris 7, 8 or 9 lsof, you may need two or more versions of lsof, compiled for each kernel size, installed for use with /usr/lib/isaexec. See the "How do I install lsof for Solaris 7, 8 or 9?" section of this document for more information on that.

17.12.3 How do I build lsof for a 64 bit Solaris kernel under a 32 bit Solaris kernel?

If your Solaris system has an appropriate compiler (e.g., WorkShop Compilers C 5.0 and above, or a recent gcc like 3.2) and the 64 bit libraries have been installed, you can force lsof's Configure script to build a 64 bit version of lsof with:

```
$ SOLARIS_KERNBITS=64 Configure -n solariscc
```

The SOLARIS_KERNBITS environment variable is part of the lsof cross-configuration support, described in the 00XCONFIG

file of the lsof distribution.

17.12.4 How do I install lsof for Solaris 7, 8 or 9?

If you are installing lsof where it will be used only under the
bit size kernel for which it was built, no special
installation is required.

If, however, you are installing different versions of lsof
for different bit sizes -- e.g., for use on a 64 bit NFS
server and from its 32 bit clients -- you should read the
man page for isaexec(3C) and install lsof according to its
instructions.

The executable at the directory where lsof is to be found
should be a hard link to /usr/lib/isaexec or a copy of it.
In the directory there must be instruction architecture
subdirectories -- e.g., .../sparc/ and .../sparcv9/. The
lsof for 64 bit size kernels is installed in the .../sparcv9/
subdirectory; the one for 32 bit size kernels, in .../sparc/.

For example, if you're installing 32 and 64 bit lsof
executables in /usr/local/etc, you would:

```
# cd /usr/local/etc
# ln /usr/lib/isaexec lsof
# mkdir sparc sparcv9
# install the 32 bit lsof as sparc/lsof
# install the 64 bit lsof as sparcv9/lsof
# chmod, chown, and chgrp sparc/lsof and

sparcv9/lsof appropriately
```

Lsof permissions and ownerships are the same whether one
or more lsof executables are being installed, with or
without the /usr/lib/isaexec hard link.

17.12.5 Why does my Solaris 7, 8 or 9 system say it cannot execute
lsof?

When you attempt to execute lsof, your Solaris 7, 8 or 9
shell may complain:

```
ksh: ./lsof: cannot execute
```

If the lsof executable exists and has the proper execution
permissions, this error may be the result of trying to

execute an lsof, built for a 64 bit kernel, on a 32 bit
kernel.

This will tell you about the lsof executable:

```
$ file lsof
lsof: ELF 64-bit MSB executable SPARCV9 Version 1,
dynamically linked, not stripped
```

The "64-bit" notation indicates the binary was built for
a 64 bit kernel. To see the running kernel bit size, use
this command:

```
$ isainfo -kv
32-bit sparc kernel modules
```

The "32-bit" notation indicates a 32 bit kernel has been
booted.

The only work-around is to
obtain, or Configure and make,
an lsof for the appropriate kernel bit size. If you
Configure and make lsof on the kernel where you wish to
run it the proper compiler, the lsof Configure step will
generate Makefiles that can be used with make to build an
appropriate lsof executable.

To compile a 64 bit lsof, you must have an appropriate
compiler -- i.e., Sun WorkShop Compilers C 5.0 or higher
or a recent gcc like 3.2.

17.12.6 What gcc will produce 64 bit Solaris 7, 8 and 9 executables?
8 and 9 executables?

Properly built and installed recent gcc versions -- e.g.,
3.2 -- will build lsof for 64 bit Solaris kernels.

If you update your gcc version to 3.2 or later, make sure
the private gcc header files become current -- i.e., clear
out any private header files from a previous gcc or Solaris
installation before installing the new ones, or build to
a new --prefix root and replace the old root with it after
the build and installation are complete.

17.12.7 Why does lsof on
my Solaris 7, 8 or 9 system say, "can't
read namelist from /dev/ksyms?"

You're probably trying to use an lsof executable built for an earlier Solaris release on a 64 bit Solaris 7, 8 or 9 kernel. The output from `lsof -v` will tell you the build environment of your lsof executable. You should also have gotten a warning message that lsof is compiled for a different Solaris version than the one under which it is running -- something like this:

```
lsof: WARNING: compiled for Solaris release X; this is Y
```

You need to build lsof on the system where you want to use it. For 64 bit Solaris 7, 8 and 9 you need a compiler that can generate 64 bit Solaris executables -- e.g., the Sun Workshop 5 C compiler or later, or a recent gcc version like 3.2. See the "Why does lsof say the compiler isn't adequate for Solaris 7, 8 or 9?" section and the ones following it for a discussion of building lsof for 64 bit Solaris 7, 8 or 9.

17.13 Solaris and COMMON

17.13.1 What does COMMON mean in the NAME column for a Solaris VCHR file?

When lsof puts COMMON or (COMMON) in the NAME column of a Solaris VCHR file, it means that the file is handled by the special file system functions of the kernel through a common vnode.

17.13.2 Why does a COMMON Solaris VCHR file sometimes seem to have an incorrect minor device number?

When lsof reports on an open file in a Solaris special file system that uses a COMMON vnode, and the file is a VCHR file, lsof tries to locate the associated device node by looking for matches on the major and minor device numbers first.

If no major and minor match results, lsof then looks for a match on pseudo and clone device files. (See /devices/pseudo.) Those device nodes are matched specially by either their major or minor device numbers, but not both. Hence, when lsof finds a match under those special conditions, it may report a value in its output DEVICE column that differs from one of the major and minor numbers of the device node.

Here's an example from a sun4m Solaris 7 system:

```
$ ls -li /devices/pseudo/pm@0:pm
151261 crw-rw-rw-   1 root     sys      117,  0 ...
$ lsof /devices/pseudo/pm@0:pm
COMMAND ... DEVICE ...   NODE NAME
powerd       117,1 ... 151261 /devices/pseudo/pm@0:pm (COMMON)
Xsun    ...  117,0 ... 151261 /devices/pseudo/pm@0:pm
```

Note that the DEVICE value for the file with (COMMON) in its name field has a different minor device number (1) from what ls reports (0), while the DEVICE value for the file without (COMMON) matches the ls output exactly. Both match on the major device number, 117. The minor device number mis-match is a result of the way the Solaris kernel handles special file system common vnodes, and it's the reason lsof puts (COMMON) after the name to signal that a mis-match is possible.

17.14 Why don't lsof and Solaris pfiles reports always match?

/usr/proc/bin/pfiles for Solaris 2.6, 7, 8, and 9 also reports information on open files for processes. Sometimes the information it reports differs from what lsof reports.

There are several reasons why this might be true. First, because pfiles is a Sun product, based on Sun kernel features, its developers have a better chance of knowing exactly how open file information is organized. I sometimes have to guess at how kernel file structure linkages are constructed by gleaning hints from header files.

Second, lsof is aimed at providing information, specifically device and node numbers, that can be used to identify named file system objects -- i.e., path names. Thus, lsof tries to make sure its device and node numbers match those reported by stat(2). Pfiles doesn't always report numbers that match stat(2) -- e.g., for files using clone and pseudo devices via common vnodes like the nlist() /dev/ksyms usage.

Here's the Solaris 7 COMMON VCHR example again with additional pfiles output:

```
$ ls -li /devices/pseudo/pm@0:pm
151261 crw-rw-rw-
 1 root     sys      117,  0 ...
$ lsof /devices/pseudo/pm@0:pm
```

```
vic1: 10 = lsof /dev/pm
COMMAND ... DEVICE ...   NODE NAME
powerd  ...  117,1 ... 151261 /devices/pseudo/pm@0:pm (COMMON)
Xsun    ...  117,0 ... 151261 /devices/pseudo/pm@0:pm
$ pfiles ...
0: S_IFCHR ... dev:32,24 ino:61945 ... rdev:117,1
...
14: S_IFCHR ... dev:32,24 ino:151261 ... rdev:117,0
```

Note that the NODE number, reported by lsof, matches what ls(1) and stat(2) report, while the ino value pfiles reports doesn't. Lsof also indicates with the (COMMON) notation that the DEVICE number is a pseudo one, derived from the character device's value. The lsof DEVICE value matches the pfiles rdev value, correct behavior for a character device, but pfiles gives no sign that it's not possible to find that character device number in /devices with ls(1) or stat(2).

17.15 Why does lsof say, "kvm_open(namelist=default, core=default): Permission denied?"

Lsof needs permission to read from the /dev/kmem and /dev/mem memory devices. Access to them is opened via a call to the kvm_open() library function and it reports the indicated message.

You must give lsof permission to read the memory devices. The super user can almost always do that, but other lsof users can do it if some group -- e.g., sys -- has permission to read the memory devices, and the lsof binary is installed with the group's ownership and with the setgid permission bit enabled.

17.16 Why is lsof slow on my busy Solaris UFS file system?

Lsof may be slow on a busy Solaris UFS file system when UFS logging has been enabled with the "logging" mount option. That option can significantly increase disk operations under certain conditions -- e.g., when a lot of files are accessed quickly.

When only the "logging" option is specified to mount, all file accesses (atime updates) are logged to the UFS logging queue. Each atime update requires two writes to the disk to complete it.

If
you want to do UFS logging -- and there are reliability advantages to it -- consider using the "logging,noatime" mount options instead. That will shift atime updates from the logging queue to fewer and independent asynchronous operations, consequently making the UFS logging queue a smaller bottleneck.

Consult mount_ufs(1M) for more information on the logging and noatime options.

(My thanks to Casper Dik for this tip on improving the performance of UFS logging.)

17.17 Why is lsof so slow on my Solaris 8 or 9 system?

Solaris 8 has a post-release feature upgrade modifying kernel name cache (DNLC) handling that can slow lsof throughput dramatically. The feature, sometimes called negative DNLC caching, is standard in Solaris 9.

As best I can tell, when you install the Solaris 8 MU1 package, you get negative DNLC caching. If this pipe produces any output, your system has negative DNLC caching.

```
$ nm /dev/ksyms | grep negative_cache_vnode
```

The reason negative
DNLC caching perturbs lsof is that a
single vnode address (found in the negative_cache_vnode kernel variable) is used to mark entries in the DNLC that are not (the negative part) found on disk.

Since a single vnode address (the DNLC key lsof uses) can represent many (I've seen upwards of 30,000.) DNLC entries, their presence overloads lsof's internal DNLC hashing function. An overloaded hash function is a slow hash function, and lsof's slows to a crawl when it encounters thousands of keys that produce the same value when the lsof DNLC hash function is applied to them.

The solution is simple -- ignore negative DNLC cache keys. They don't represent path name components lsof can use. Lsof revisions 4.50 and above have an addition that ignores them and the performance of those lsof revisions improves significantly when presented with negative DNLC cache keys.

If you don't have an lsof revision at 4.51 or later, there's

a work-around. Use lsof's ``-C'' option. It disables
lsof's
DNLC caching. Of course, that also inhibits the
reporting of any path name components from the kernel DNLC.
When ``-c'' is used, lsof will continue to report file
system and character device paths.

17.18 Solaris and VxFS

17.18.1 Why doesn't lsof support VxFS 3.4 on Solaris 2.6, and above?

Lsof will not support VxFS version 3.4 on Solaris 2.6 and above
unless some files from VxFS Update 2 have been installed. VxFS
3.4 FCS and VxFS 3.4 update 1 lack the header files lsof
normally uses to obtain information from the VxFS 3.4 kernel
node structure, vx_inode. VxFS 3.4 Update 2 provides a method
whereby lsof can obtain the necessary vx_inode information from
the vxfsu_get_ioffsets() function in Veritas utility
libraries.

The utility libraries (32 bit and 64 bit versions) may be
found in /opt/VRTSvxfs/lib. An ancillary header file may
be found in /opt/VRTSvxfs/include/sys/fs/vx_libutil.h.
Documentation of the vxfsu_get_ioffsets(3) function may be
found in
/opt/VRTS/man/man3/vxfsu_get_ioffsets.3.

Those files of VxFS 3.4 Update 2 may be downloaded from:

ftp://ftp.veritas.com/pub/support/vxfs_34.i64243.tar

The vxfs_34.i64243.tar archive will unpack into an i64243
directory containing these files:

```
$ ls i64243
README
libvxfsutil.sol26.sums
libvxfsutil.sol26.tar.Z
libvxfsutil.sol27.sums
libvxfsutil.sol27.tar.Z
libvxfsutil.sol28.sums
libvxfsutil.sol28.tar.Z
```

Read README. Select the *.tar.Z file appropriate for your
Solaris version. Its contents will unpack into /opt/VRTS
and /opt/VRTSvxfs, so you will need sufficient permission
-- e.g., do it as root -- to unpack the uncompressed archive.
Once you've done that, it's a good idea to compare the

checksums of the archive you unpacked with the ones recorded
in the appropriate *.sums file. Use `sum -r` to verify
the checksums.

For example, if you want the Solaris 8 version, uncompress
and unpack libvxfsutil.sol28.tar.Z -- e.g.,

```
$ su
  ...
  # cd i6423
  # zcat libvxfsutil.sol28.tar.Z | tar xf -
```

That should create these new files and subdirectories with
the indicated checksums:

```
  File or subdirectory   sum -r

  /opt/VRTSvxfs/include/vxfsutil.h  03938
  /opt/VRTSvxfs/lib/libvxfsutil.a  51794
  /opt/VRTSvxfs/lib/sparcv9/
  /opt/VRTSvxfs/lib/sparcv9/libvxfsutil.a 07420
  /opt/VRTS/man/man3/
  /opt/VRTS/man/man3/vxfsu_get_ioffsets.3 62480
```

Once these files are in place, run lsof's Configure script
for the solaris or solariscc abbreviation. Configure will
locate the appropriate VxFS 3.4 Update 2 files and set up
for the making of an lsof that will properly display open
VxFS 3.4 file information.

17.18.2 Why does lsof report "vx_inode: vxfsu_get_ioffsets error"
for open Solaris 2.6 and above VxFS 3.4 and above files?

Even when lsof supports VxFS 3.4 and above on Solaris 2.6 and
above, it may report "vx_inode: vxfsu_get_ioffsets error" in
the NAME column for all VxFS files.

The
usual cause is that lsof doesn't have permission to
read the file at the end of the /dev/vxportal symbolic
link. If, for example, lsof has been installed setgid(sys),
then the /dev/vxportal symbolic link destination should be
owned by the sys group and readable by it.

Update 2 for VxFS 3.4 sets the modes of the /dev/vxportal
symbolic link destination to 0640 and the group ownership
to sys. But I have had a report that the modes are wrong

in a VxFS 4.0 installation.

Another cause may be that the system has more than one version of VxFS installed (Only one can be active.), and lsof's Configure script did not choose the header files and libraries for the active VxFS version. Configure opts for VxFS 4.0 and above header files and libraries (in /opt/VRTS) in preference to those for VxFS below 4.0 (in /opt/VRTSvxfs).

Look for the directories /opt/VRTS and /opt/VRTSvxfs. If you have /opt/VRTS, make sure its header and library symbolic links point to those of
the active VxFS version.

If you have both directories, look at the CFLAGS that Configure constructed for making lsof and see which directory path follows a -I option. If that doesn't match the directory path of the active VxFS version, try pointing Configure at the correct directory with the SOLARIS_VXFSINCL environment variable -- e.g.,

```
$ SOLARIS_VXFSINCL=/opt/.../include ./Configure -n solaris
```

17.18.3 Why does Solaris Configure claim there is no VxFS library?

The lsof Configure script, when configuring for Solaris, may report:

```
FATAL: no VxFS .../libvxfsutil.a
```

That fatal error message indicates lsof has found the VxFS utility library's header files, but can't find the library itself in the expected location adjacent to the header files.

One possible cause is an incorrect symbolic link from /opt/VRTS/lib/sparcv9/libvxfsutil.a to the library's real location. (Some VxFS distributions declared the link incorrectly.) Use `ls -lL` on that path to see if
it exists.
If it doesn't exist, the link may be missing an additional leading "../" component.

If the problem is a missing "../" from the library's link, you can correct the link or check with Veritas/Symantec for the patch that corrects it.

If the problem is not a missing "../", and you know the libvxfsutil.a location, you can define its path in the

SOLARIS_VXFSLIB environment variable before running the lsof
Configure script. (See 00XCONFIG for information about using
the SOLARIS_VXFSLIB environment variable.)

If you have no libvxfsutil.a, you must obtain it from
Veritas/Symantec or find it in your VxFS installation package.

17.18.4 Why doesn't Solaris lsof report VxFS path name components?

Solaris lsof will report path name components for VxFS versions
that use the common Solaris Dynamic Name Lookup Cache (DNLC) or
on some file systems of VxFS versions that support the VxFS
Reverse Name Lookup (RNL) facility.

VxFS versions 3.3 (approximately) and below use the
common
Solaris DNLC. (I haven't been able to determine exactly when
VxFS stopped using the DNLC.) For versions above that boundary,
but below 4.0, lsof can't report path name components.

At VxFS 4.0 and above, lsof can be compiled to use the VxFS RNL
facility for reporting path names. If "-DHASVXFSRNL" appears
in the compiler flags section of lsof "-v" option output, then
the lsof Configure script detected the VxFS RNL facility and
lsof has been compiled to use it.

Lsof's use of the RNL facility can fail when the VxFS file
system disk layout version is below 6. In that case, lsof can
report no path name components. For more information, see the
vxfs_inotopath(3) manual page. any of the following commands
will show the disk layout version for a VxFS file system, when
supplied the block device or mount point on which the file
system is mounted.

```
   fstyp -v <block_device>
 or
   mkfs -m <block_device>
 or
   vxupgrade <mount_point>
```

You must have permission
to read the block device -- e.g., be
the root user.

You may also be able to upgrade an older disk layout to one
that will work with the RNL. See the vxupgrade(1M) man page
for more information on that.

When lsof can't report VxFS path name components, it reports the file system mount point and the path name of device on which it is mounted. The device path name is enclosed in parentheses.

17.18.5 Why does Solaris 10 lsof report scrambled VxFS paths?

Solaris 10 lsof may report a bogus, scrambled path for an open VxFS file, when lsof obtains the path from a vnode's cached path. Veritas/Symantec reports that their Solaris 10 implementation has bugs in the way it handles the Solaris 10 vnode cached path and those bugs will be fixed in an upcoming patch some time after August 15, 2005.

When Solaris 10 lsof reports a path for an open VxFs file obtained via the VxFS Reverse Name Lookup facility, the path will be correct.

Also see the answers to the questions "Why
does Solaris 10 lsof
sometimes report the wrong path name?" and "Why doesn't Solaris lsof report VxFS path name components?"

17.19 Large file problems

17.19.1 Why does lsof complain it can't stat(2) a Solaris 2.5.1 large file?

When given an argument that is the path to a Solaris 2.5.1 file, enable for large file operations with the O_LARGEFILE open(2) option, lsof complains that it can't stat(2) the file. That's because lsof isn't using a stat(2) call and associated structure enabled for large files.

This error has been fixed, starting at lsof revision 4.58 for Solaris 2.6 and above. That fix won't work on Solaris 2.5.1 and I no longer have access to a Solaris 2.5.1 test system to develop a separate fix.

The work-around is to avoid specifying a O_LARGEFILE path as an argument to lsof on Solaris 2.5.1. Instead use a combination of lsof and grep to achieve the same results, albeit more clumsily.

17.20 Why does lsof get a segmentation fault on 64 bit Solaris 8
using NIS+?

I have received a report from Gary Craig that lsof produces a segmentation fault on his 64 bit Solaris 8 system using NIS+. Via an independent test program we have exonerated lsof and tracked the fault to the NIS+ __nis_server_name() function in the C name server library, -lnsl.

Lsof causes the __nis_server_name() NIS+ function to be called by calling getservent() to read entries of the port number to service name map.

The only Sun bug ID that appears to describe the problem is 4304244, although its text is unclear enough to leave room for doubt.

Until Sun eliminates the __nis_server_name() segmentation fault cause, a work-around for lsof is to use its "-P" option, causing lsof to avoid port to service name lookups.

17.21 Will lsof crash the Solaris kernel?

I've received and investigated one report that it has when the Sun hardware (a QME interface) was faulty. Today (May 23, 2002) I've learned that Sun has reports of kernel crashes caused by adb,
lsof, and mdb.

The Sun investigation pinpointed a problem in the /dev/kmem kernel driver and there is a Sun bug report, 4344513, about the problem. There is a fix in Solaris 9, and patches for Solaris 7 and 8 (SPARC and x86).

To see if your Solaris system is fixed, look for a /devices/pseudo/*allkmem node.

Extensive address filtering was added to lsof revision 4.50 to forestall what I then (July 2001) believed to be only the possibility that lsof might crash Solaris. However, the filtering isn't perfect, since a filtered address might become invalid after lsof has filtered it but before lsof has delivered it to /dev/kmem. That filtering work is described in .../dialects/sun/solaris_kaddr_filters, also available at:

ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/solaris_kaddr_filters

The best and safest work-around is to upgrade to Solaris 9 or install an appropriate patch or its equivalent from this list:

```
Solaris SPARC  x86
Version Patch  Patch

======= =====  =====
   7 106541-20 106542-20
   8 108528-14 108529-14
```

17.22 Why does lsof on Solaris 7, 8, or 9 report a kvm_open() failure?

When lsof is started on some Solaris 7, 8, and 9 systems it may report:

```
lsof: kvm_open(namelist=default, corefile=default): \
No such file or directory
```

Lsof revisions 4.65 and later will first report:

```
lsof: cannot stat /dev/allkmem
```

The second message, not delivered in lsof revisions below 4.65, explains the cause of the kvm_open() failure; it can't find /dev/allkmem.

/dev/allkmem is a device added to Solaris 7 and 8 in patches and in the Solaris 9 FCS. See the preceding "Will lsof crash the Solaris kernel?" section for more information on /dev/allkmem and the patches.

The kvm_open(3KVM) function in the KVM library of patched Solaris 7 and 8 systems and in Solaris 9 expects to find /dev/allkmem and exits on error when it does not.

If you have installed the patch that updated your KVM library to
a version that expects /dev/allkmem to be present
and it is not, you may need to reconfigure your system's devices with devfsadm(1M) or enter "boot -r" to the OpenBoot monitor's prompt (usually "ok").

17.23 Solaris and SAM-FS

17.23.1 Why does Solaris lsof report "(limited SAM-FS info)"?

Lsof 4.68 and above report "(limited SAM-FS info)" on Solaris in the NAME column after the path or file system name for all files it finds on SAM-FS file systems.

That's because no more information is known about the composition of the nodes that follow SAM-FS vnodes. If you can provide that information, please contact me via e-mail at <abe@purdue.edu>. Make sure "lsof" appears in the "Subject:" line so my e-mail filter won't classify your letter as Spam.

17.23.2 Why can't lsof locate named SAM-GS files?

Solaris lsof 4.68 and above can't locate files on SAM-FS file systems when the files are named as lsof arguments because lsof doesn't know how to locate open SAM-FS file device
and node number information. (See also 'Why does Solaris lsof report "(limited SAM-FS info)?')

17.24 Lsof and Solaris 10 zones

17.24.1 How can I make lsof list the Solaris zone?

Use the lsof "-z [z]" option.

17.24.2 Why doesn't lsof work in a Solaris 10 zone?

When run from within a Solaris 10 zone, lsof will usually report:

```
lsof: can't stat(/devices): No such file or directory
```

That's because a Solaris zone usually has no /devices subdirectory, a restriction of the zone implementation intended to limit the ability of zone processes to control global system resources, including physical devices.

While a zone may have a /dev subdirectory, that subdirectory usually lacks the /dev/allkmem, /dev/mem and /dev/kmem devices lsof and the KVM library it uses require.

The work-around is to run lsof in the global zone. When it is run in a global zone lsof will be able to report on processes running in any zone, including the global zone.

17.24.3 Why does lsof complain it can't stat() Solaris 10 zone file systems?

When run from the global zone on Solaris 10 lsof may complain:

```
lsof: WARNING: can't stat() 15 zone file systems;
 using dev= options
```

The warning message means lsof found the reported number of file system entries in the mount table for which it didn't have permission to get stat(2) results, but which had "zone=" and "dev=" mount table options.

That is a normal restriction of Solaris 10 zones. Since the lsof warning message indicates it was able to find "dev=" options for the file systems, lsof will probably work correctly.

One work-around is to relax the restrictions on zone mount points, so that lsof can stat() them. While that may be possible by changing directory modes or group ownerships, it is probably not a good idea, because it weakens the restrictions zones are intended to provide.

Another work-around is to suppress the warning message with lsof's "-w" option. The down side of that is that it causes the
suppression of all warning messages, leading to the possibility that some non-stat() warning messages will be suppressed.

17.25 Solaris 10 problems

17.25.1 Why does Solaris 10 lsof sometimes report the wrong path name?

When a path name component is renamed -- e.g., with mv(1) -- Solaris 10 lsof may report the old component for an open file that used the component in its path before the rename. That's because Solaris 10 lsof reports the path name cached in the open file's vnode and the Solaris 10 kernel doesn't update the open vnode's cached path name when a component of it is changed.

When an open file is deleted -- e.g., with rm(1) -- the path name by which it was opened remains cached in the vnode. Lsof can be instructed to display that path name with the -X option. The path name might be incorrect because of the rename problem described above. See the answer to the 'What does "(deleted)" mean in the NAME column of a Solaris 10 open file?' question for
more information.

Lsof is sometimes able to detect that cached path name is

incorrect. In that case lsof may report only the mounted-on directory and device of the file system or it may report that the path name is of questionable accuracy by appending a trailing "(?)" to it in the NAME column.

See the answer to the "Why does Solaris 10 lsof sometimes report only the mounted-on directory and device?" and 'What does "(?)" mean in the NAME column of a Solaris 10 open file?' questions for more information.

17.25.2 Why does Solaris 10 lsof sometimes report only the mounted-on directory and device?

For some regular open files lsof may report only the mounted-on directory and device of the file system on which the file resides. That's because lsof was able to determine that the path name cached in the open file's vnode is incorrect.

Lsof detects the cached path name is incorrect by applying stat(2) to it, provided that no error was detected when stat(2) was applied to
the file system mounted-on directory during lsof setup. If a mounted-on directory stat(2) error was detected during setup, lsof does no cached path name analysis and simply reports it.

When the application of stat(2) to the cached path name returns a no-entry reply (the ENOENT error number), lsof concludes the path no longer exists (i.e., has been unlinked) and reports the mounted-on directory and device of the file system. That behavior can be modified with the -X option in lsof revisions 4.77 and above. See the answer to the 'What does "(deleted)" mean in the NAME column of a Solaris 10 open file?' for more information.

When the application of stat(2) to the cached path name returns a permission error reply (the EACCES or EPERM error numbers), lsof reports the cached path name and adds a trailing "(?)" to indicate the reported path name is of questionable accuracy. See the answer to the question 'What does "(?)" mean in the NAME column of a Solaris 10 open file?'
for more information.

If the application of stat(2) to the cached path name yields any other error reply, lsof reports the mounted-on directory and device of the file system.

When the application of stat(2) to the cached path name

succeeds, lsof compares the reported device and node numbers to what it has obtained for the open file from kernel structures. If they match, lsof reports the cached path name. If they don't match, lsof instead reports the mounted-on directory and device of the file system.

A work-around that allows lsof to apply stat(2) successfully to cached path names is to give lsof sufficient permission to do it -- i.e., run lsof as the root user.

17.25.3 What does "(deleted)" mean in the NAME column of a Solaris 10 open file?

When the -X option is specified to Solaris 10 lsof, it will report in its NAME column the path name cached for a deleted file in its vnode. The path name will be followed by "(deleted)".

Note that the path name cached in a file's vnode is the path name by which the file was opened. It is not updated by the Solaris kernel when any path name component is changed. Hence, it may not represent the final path name the open file had.

See the answer to the "Why does Solaris 10 lsof sometimes report the wrong path name?" question for more information on how changing a path name component affects the correctness of a what lsof reports.

17.25.4 What does "(?)" mean in the NAME column of a Solaris 10 open file?

When lsof encounters a path name cached in the open file's vnode that stat(2) reports lsof lacks permission to access, lsof adds "(?)" to the path name reported in the NAME column to indicate the path name is of questionable accuracy.

See the answers to the "Why does Solaris 10 lsof sometimes report the wrong path name?" and "Why does Solaris 10 lsof sometimes report only the mounted-on directory and device?" questions for more information on why lsof may report a path name of questionable accuracy.

A work-around that allows lsof to apply stat(2) successfully to cached path names is to give lsof sufficient permission to do it -- i.e., run lsof as the root user.

17.26 Solaris contract file problems

17.26.1 Why doesn't lsof report size, link count and node number for Solaris 10 contract files?

Lsof doesn't report size, link count or node number for Solaris 10 contract files because I don't know how to obtain them from contract file kernel structures.

17.26.2 Why can't lsof locate a Solaris 10 contract file by path name?

Because lsof can't find the node number of Solaris contract files, it can't match the device and node numbers it gets from applying stat(2) to the contract file path name with what it finds in kernel data.

17.27 Solaris 10 and above ZFS probblems

17.27.1 Why does Configure warn that ZFS support is not enabled?

To provide ZFS support it is necessary that lsof have access to the definitions of ZFS structures used by the kernel.
Those
definitions are made available to lsof when it runs by the libctl library.

If lsof's Configure script finds that ZFS is indicated by the presence of the <sys/fs/zfs.h> header file, but the libctl library is not indicated via the <libctl.h> header file, the script concludes that ZFS support is not possible and issues the following warning:

```
WARNING: ZFS support not enabled; libctf.h missing.
```

Install libctf support to remedy this problem.

17.28 Problems with Solaris 9 and above

17.28.1 Why does the compiler complain about lgrp_root on Solaris 9 and above?

When compiling lsof 4.84 on later Solaris 9 and 10 systems, the compiler may report the following error:

```
/usr/include/sys/lgrp.h", line ...: identifier redeclared: lgrp_root
```

This error results from a conflict between usage of lgrp_root

in both <sys/lgrp.h> and <sys/lgrp_user.h> when _KMEMUSER or _KERNEL is #define'd before <sys/lgrp.h> is #include'd. This problem is noted in Sunsolve bug ID 5064229.

The work-around is to use lsof revision 4.85 sources.

18.0 Lsof Features

18.1 Why doesn't lsof doesn't report on /proc entries on my system?

/proc file system support is generally available only for BSD, SYSV R4 dialects, and Tru64 UNIX (Digital UNIX, DEC OSF/1). It's also available for Linux, and Pyramid DC/OSx and Reliant UNIX.

Even on some SYSV R4 dialects I encountered many problems while trying to incorporate /proc file system support. The chief problem is that some vendors don't distribute the header file that describes the /proc file system node -- usually called prdata.h.

18.2 How do I disable the device cache file feature or alter it's behavior?

To disable the device cache file feature for a dialect, remove the HASDCACHE definition from the machine.h file of the dialect's machine.h header file. You can also use HASDCACHE to change the default prefix (``.lsof'') of the device cache file.

Be sure you consider disabling the device cache file feature carefully.
Having a device cache file significantly reduces lsof startup overhead by eliminating a full scan of /dev (or /devices) once the device cache file has been created. That full scan also overloads the kernel's name cache with the names of the /dev (or /devices) nodes, reducing the opportunity for lsof to find path name components of open files.

If you're worried about the presence of mode 0600 device cache files in the home directories of the real user IDs that execute lsof, consider these checks that lsof makes on the file before using it:

1. To read the device cache file, lsof must gain permission from access(2).

2. The device cache file's modes must be 0600 (0644 if lsof is reading a system-wide device cache file) and its size non-zero.

3. There must be a correctly formatted section count line at the beginning of the file.

4. Each section must have a header line with a count that properly numbers the lines in the section. Legal sections are device, clone, pseudo-device, and CRC.

5. The lines of a section must have the proper format.

6. All lines are included in a 16 bit CRC, and it is recorded in a non-checksummed section line at the end of the file.

7. The checksum computed when the file is read must match the checksum recorded when the file was written.

8. The checksum section line must be followed by end-of-information.

9. Lsof must be able to get matching results from stat(2) on a randomly chosen entry of the device section.

For more information on the device cache file, read the 00DCACHE file of the lsof distribution.

18.2.1 What's the risk with a perverted device cache file?

Even with the checks that lsof makes on the device cache file, it's conceivable that an intruder could modify it so it would pass lsof's tests.

The only serious consequence I know of this change is the removal of a file whose major device number identifies a socket from some user ID's device cache file. When such a device has been removed from the device cache file, and when lsof doesn't detect the removal, lsof may not be able

to identify socket files when executed by the affected user
ID. Only certain dialects are at risk to this attack --
e.g., SCO OpenServer and Solaris 2.x, 7, 8, and 9.

If you're tracking a network intruder with lsof, that could
be important to you. If you suspect that someone has
corrupted the device cache file you're using, I recommend
you use lsof's -Di option to tell it to ignore it and use
the contents of /dev (or /devices) instead; or remove the
device cache file (usually .lsof_hostname, where hostname
is the first component of the host's name returned by
gethostname(2)) from the user ID's home directory and let
lsof create a new one for you.

18.2.2 How do I put the full host name in a personal device cache file
path?

Lsof constructs the personal device cache file path name
from a format
specified in the HASPERSDC #define in the
dialect's machine.h header file. As distributed HASPERSDC
declares the path to be ``.lsof_'' plus the first component
of the host name with the format ``.lsof_%L''.

If you want to change the way lsof constructs the personal
device cache file path name, you can change the HASPERSDC
#define and recompile lsof. If, for example, you #define
HASPERSDC to be ``.lsof_%l'' (note the lower case `l'),
Configure and remake lsof, then the personal device cache
file path will be ``.lsof_'' plus the host name returned
by gethostname(2).

See the 00DCACHE file of the lsof distribution for more
information on the formation of the personal device cache
file path and the use of the HASPERSDC #define.

18.2.3 How do I put the personal device cache file in /tmp?

Change the HASPERSDC definition in your dialect's machine.h
header file.

When you redefine HASPERSDC, make sure you put at least
one user identification conversion in it to keep separate
the
device cache files for each user of lsof. Also give
some thought to including the ``%0'' conversion to define
an alternate path for setuid-root and root processes.

Here's a definition that puts a personal device cache file
in /tmp with the name ``.lsof_login_hostname_pers".

```
#define HASPERSDC "/tmp/.lsof_%u_%l_pers"
```

Thus the /tmp personal device cache file path for login
"abe" on host "lsof.itap.purdue.edu" would be:

```
/tmp/.lsof_abe_lsof.itap.purdue.edu_pers
```

You can add the User ID (UID) with the "%U" conversion and
the first host name component with the ``%L" conversion.

CAUTION: be careful using absolute paths like /tmp lest
lsof processes that are setuid-root or whose real UID is
root be used to exploit some security weakness via /tmp.
Elect instead to add an alternate path for those processes
with the ``%0" conversion. Here's an extension of the
previous HASPERSDC format for /tmp that declares an alternate
path:

```
#define HASPERSDC "/tmp/.lsof_%u_%l_pers%0%h/.lsof_%L"
```

When
the lsof process is setuid-root or its real UID is
root, presuming root's home directory is `/' and the host's
name is ``lsof.itap.purdue.edu", the extended format yields:

```
/.lsof_vic
```

18.3 Why doesn't lsof know about AFS files on my favorite dialect?

Lsof currently supports AFS for these dialects:

AIX 4.1.4 (AFS 3.4a)
Linux 1.2.13 (AFS 3.3)
NEXTSTEP 3.2 (AFS 3.3)
Solaris 2.[56] (AFS 3.4a)

It may recognize AFS files on other versions of these
dialects, but I have no way to test that. Lsof may report
correct information for AFS files on other dialects, but
I can't test that either.

AFS support must be custom crafted for each UNIX dialect
and then tested. If lsof supports your favorite dialect,
but doesn't recognize its AFS files, probably I don't have
access to a test system. If you want AFS support badly

for your dialect, consider helping me do the development
and testing.

18.3.1 Why doesn't lsof report
node numbers for all AFS volume files,
or how do I reveal dynamic module addresses to lsof?

When AFS is implemented via dynamic kernel modules -- e.g.,
in NEXTSTEP -- lsof can't obtain the addresses of AFS
variables in the kernel that it uses to identify AFS vnodes.
It can guess that a vnode is assigned to an AFS file and
it can obtain other information about AFS files, but it
has trouble computing AFS volume node numbers.

To determine node numbers for AFS volumes other than the
root volume, /afs, lsof needs access to a hashed volume
structure pointer table. When it can't find the address
of that table, because AFS support is implemented via
dynamic kernel modules, lsof will return blanks in the
INODE column for AFS volume files. Lsof can identify the
root volume's node number (0), and can compute the node
numbers for all other AFS files.

If you have a name list file that contains the addresses
of the AFS dynamic modules -- e.g., you saved module symbols
when
you created a loadable module kernel with modload(8)
by specifying -sym -- lsof may be able to find the kernel
addresses it needs in that file.

Lsof looks up AFS dynamic kernel addresses for these dialects
at these default paths:

NEXTSTEP 3.2 /usr/vice/etc/afs_loadable

A different path to a name list file with AFS dynamic kernel
addresses may be specified with the -A option, when the -A
option description appears in lsof's -h or -? (help) output.

If any addresses appear in the -A name list file that also
appear in the regular kernel name list file -- e.g., /vmunix
-- they must match, or lsof will silently ignore the -A
addresses on the presumption that they are out of date.

Found in path(s):
* /opt/cola/permits/2134360459_1722972872.2498574/0/lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/00FAQ
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 2002 Purdue Research Foundation, West Lafayette, Indiana
* 47907.  All rights reserved.
*
* Written by V. Abell.
*
* This software is not subject to any license of the American Telephone
* and Telegraph Company or the Regents of the University of California.
*
* Permission is granted to anyone to use this software for any purpose on
* any computer system, and to alter it and redistribute it freely, subject
* to the following restrictions:
*
* 1. Neither the authors nor Purdue University are responsible for any
*    consequences of the use of this software.
*
* 2. The origin of this software must not be misrepresented, either by
*    explicit claim or by omission.  Credit to the authors and Purdue
*    University must appear in documentation and sources.
*
* 3. Altered versions must be plainly marked as such, and must not be
*    misrepresented as being the original software.
*
*
 4. This notice may not be removed or altered.
*/
/*
     * If this is a regular file with a non-numeric FD, it may be the
     * executable.
     */
```

Found in path(s):
* /opt/cola/permits/2134360459_1722972872.2498574/0/lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/tests/LTbasic.c
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 2008 Purdue Research Foundation, West Lafayette, Indiana
* 47907.  All rights reserved.
*
* Written by Victor A. Abell
*
* This software is not subject to any license of the American Telephone
* and Telegraph Company or the Regents of the University of California.
*
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```

```
*
* 1. Neither the authors nor Purdue University are responsible for any
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* /opt/cola/permits/2134360459_1722972872.2498574/0/lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/tests/LTsock.c

* /opt/cola/permits/2134360459_1722972872.2498574/0/lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/tests/LTunix.c
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/*
* GetOpt() -- Local get option
*
* Liberally adapted from the public domain AT&T getopt() source,
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*
* The modifications allow `?' to be an option character and allow
* the caller to decide that an option that may be followed by a
* value doesn't have one -- e.g., has a default instead.
*/
```

Found in path(s):
* /opt/cola/permits/2134360459_1722972872.2498574/0/lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/main.c

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* /opt/cola/permits/2134360459_1722972872.2498574/0/lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/scripts/list_fields.awk

1.4753 libnftnl 1.2.6-2build1

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```
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```
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```

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`show w' and `show c' should show the appropriate
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```
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1.4766 libxext 1.3.4-1build2

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Appendix: How to Apply These Terms to Your New Programs

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<signature of Ty Coon>, 1 April 1989
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1.4772 fdisk 2.39.3

1.4772.1 Available under license :

```
NR START   END SECTORS SIZE NAME UUID
1    32  7679    7648 3.7M      8f8378c0-01
2  7680 16383    8704 4.3M      8f8378c0-02
5  7936 12799    4864 2.4M
6 12544 16127    3584 1.8M
```

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properly with a modified version of the library, if
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1.4774 pkgconf 1.8.1-2build1

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1.4776 vulkan-loader 1.3.275.0-1build1

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1.4779 json-c 0.17-1build1

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1.4784 libuv 1.48.0-1.1build1

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1.4785 libalgorithm-diff-xs-perl 0.04-8build3

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* /opt/cola/permits/2134360468_1722971905.3934088/0/libalgorithm-diff-xs-perl-0-04-orig-1-tar-gz/Algorithm-Diff-XS-0.04/inc/Module/Install/Metadata.pm
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/*
---

  ppport.h -- Perl/Pollution/Portability Version 3.06_01

  Automatically created by Devel::PPPort running under
  perl 5.008008 on Wed Oct 22 22:33:39 2008.

  Do NOT edit this file directly! -- Edit PPPort_pm.PL and the
  includes in parts/inc/ instead.

  Use 'perldoc ppport.h' to view the documentation below.

```
---------------------------------------------------------------------

SKIP

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.06_01

=head1 SYNOPSIS

 perl ppport.h [options] [source files]

 Searches current directory for files if no [source files] are given

 --help                      show short help

 --patch=file                write one patch file with changes
 --copy=suffix               write changed copies with suffix
 --diff=program              use diff program and options

 --compat-version=version
    provide compatibility with Perl version
 --cplusplus                 accept C++ comments

 --quiet                     don't output anything except fatal errors
 --nodiag                    don't show diagnostics
 --nohints                   don't show hints
 --nochanges                 don't suggest changes
 --nofilter                  don't filter input files

 --list-provided             list provided API
 --list-unsupported          list unsupported API
 --api-info=name             show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl
installations back to 5.003, and has been tested up to 5.9.3.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.
```

=head2 --patch=I<file>

If this option is given, a single patch file will be created if
any changes are suggested. This requires a working diff program
to be installed on your system.

=head2 --copy=I<suffix>

If this option
is given, a copy of each file will be saved with
the given suffix that contains the suggested changes. This does
not require any external programs.

If neither C<--patch> or C<--copy> are given, the default is to
simply print the diffs for each file. This requires either
C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default
is to use C<Text::Diff>, when installed, and output unified
context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given
Perl version. The default is to check for compatibility with Perl
version 5.003. You can use this option to reduce the output
of F<ppport.h> if you intend to be backward compatible only
up to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and
replace them with C style comments for portability reasons.
Using this option instructs F<ppport.h> to leave C++
comments
untouched.

=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability
alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability
notes.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints
unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking
like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --list-provided

Lists the API elements for which compatibility is provided by
F<ppport.h>. Also lists if it must be explicitly requested,
if it has dependencies, and if there are hints for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by
F<ppport.h> and below which version of Perl they probably
won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching
I<name>.
If I<name> is surrounded by slashes, it is interpreted as a regular
expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible
across differing versions of Perl itself, certain steps need to be taken.

=over 4

=item *

Including this header is the first major one. This alone will give you
access to a large part of the Perl API that hasn't been available in
earlier Perl releases. Use

  perl ppport.h --list-provided

to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using
global Perl variables without the C<PL_> prefix is deprecated. Also,
some API functions used to have a C<perl_> prefix. Using this form is
also deprecated. You can safely use the supported API, as F<ppport.h>
will provide wrappers for older Perl versions.

=item *

If you use one of a few functions that were not present in earlier
versions of Perl, and that can't be provided using
a macro, you have
to explicitly request support for these functions by adding one or
more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions will be marked C<explicit> in the list shown by
C<--list-provided>.

Depending on whether you module has a single or multiple files that
use such functions, you want either C<static> or global variants.

For a C<static> function, use:

```
#define NEED_function
```

For a global function, use:

```
#define NEED_function_GLOBAL
```

Note that you mustn't have more than one global request for one
function in your project.

```
Function                Static Request              Global Request
----------------------------------------------------------------------------------------
eval_pv()               NEED_eval_pv                NEED_eval_pv_GLOBAL
grok_bin()              NEED_grok_bin               NEED_grok_bin_GLOBAL
grok_hex()              NEED_grok_hex               NEED_grok_hex_GLOBAL
grok_number()           NEED_grok_number            NEED_grok_number_GLOBAL
grok_numeric_radix()    NEED_grok_numeric_radix     NEED_grok_numeric_radix_GLOBAL
grok_oct()              NEED_grok_oct               NEED_grok_oct_GLOBAL
newCONSTSUB()           NEED_newCONSTSUB            NEED_newCONSTSUB_GLOBAL
newRV_noinc()           NEED_newRV_noinc            NEED_newRV_noinc_GLOBAL
sv_2pv_nolen()          NEED_sv_2pv_nolen           NEED_sv_2pv_nolen_GLOBAL
sv_2pvbyte()            NEED_sv_2pvbyte             NEED_sv_2pvbyte_GLOBAL
```

```
sv_catpvf_mg()          NEED_sv_catpvf_mg          NEED_sv_catpvf_mg_GLOBAL
sv_catpvf_mg_nocontext()  NEED_sv_catpvf_mg_nocontext  NEED_sv_catpvf_mg_nocontext_GLOBAL
sv_setpvf_mg()          NEED_sv_setpvf_mg          NEED_sv_setpvf_mg_GLOBAL
sv_setpvf_mg_nocontext()  NEED_sv_setpvf_mg_nocontext  NEED_sv_setpvf_mg_nocontext_GLOBAL
vnewSVpvf()             NEED_vnewSVpvf
NEED_vnewSVpvf_GLOBAL
```

To avoid namespace conflicts, you can change the namespace of the explicitly exported functions using the C<DPPP_NAMESPACE> macro. Just C<#define> the macro before including C<ppport.h>:

```
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
```

The default namespace is C<DPPP_>.

=back

The good thing is that most of the above can be checked by running F<ppport.h> on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether F<ppport.h> is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, F<ppport.h> can be run as a Perl script to check your source code. Simply say:

```
perl ppport.h
```

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases,
 if you're aware that it uses C++ comments,
and if you want all suggestions as a single patch file, you could use something like this:

```
perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff
```

If you only want your code to be scanned without any suggestions for changes, use:

```
perl ppport.h --nochanges
```

You can specify a different C<diff> program or options, using
the C<--diff> option:

```
perl ppport.h --diff='diff -C 10'
```

This would output context diffs with 10 lines of context.

To display portability information for the C<newSVpvn> function,
use:

```
perl ppport.h --api-info=newSVpvn
```

Since the argument to C<--api-info> can be a regular expression,
you can use

```
perl ppport.h --api-info=/_nomg$/
```

to display portability information for all C<_nomg> functions or

```
perl ppport.h --api-info=/./
```

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during
the compilation of this module, please check if
newer versions
of either this module or C<Devel::PPPort> are available on CPAN
before sending a bug report.

If F<ppport.h> was generated using the latest version of
C<Devel::PPPort> and is causing failure of this module, please
file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.

Please include the following information:

=over 4

=item 1.

The complete output from running "perl -V"

=item 2.

This file.

=item 3.

```
The name and version of the module you were trying to build.

=item 4.

A full log of the build that failed.

=item 5.

Any other information that you think could be relevant.

=back

For the latest version of this code, please get the C<Devel::PPPort>
module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2005, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or
modify it under the same terms as Perl
 itself.

=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;

my %opt = (
 quiet     => 0,
 diag      => 1,
 hints     => 1,
 changes   => 1,
 cplusplus => 0,
 filter    => 1,
);

my($ppport) = $0 =~ /([\w.]+)$/;
my $LF = '(?:\r\n|[\r\n])';   # line feed
my $HS = "[ \t]";             # horizontal whitespace
```

```
eval {
 require Getopt::Long;
 Getopt::Long::GetOptions(\%opt, qw(
   help quiet diag! filter! hints! changes! cplusplus
   patch=s copy=s diff=s compat-version=s
   list-provided list-unsupported api-info=s
 )) or usage();
};

if ($@ and grep /^-/, @ARGV) {
 usage() if "@ARGV" =~ /^--?h(?:elp)?$/;
 die "Getopt::Long not found. Please don't use any options.\n";
}

usage() if $opt{help};

if (exists $opt{'compat-version'}) {
 my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) };
 if ($@) {
   die "Invalid version number format: '$opt{'compat-version'}'\n";
 }
 die "Only Perl 5 is supported\n" if $r != 5;
 die "Invalid version number: $opt{'compat-version'}\n"
 if $v >= 1000 || $s >= 1000;
 $opt{'compat-version'} = sprintf "%d.%03d%03d", $r, $v, $s;
}
else {
 $opt{'compat-version'} = 5;
}

# Never use C comments in this file!!!!!
my $ccs  = '/'.'*';
my $cce  = '*'.'/';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

my %API = map { /^(\w+)\|([^|]*)\|([^|]*)\|(\w*)$/
            ? ( $1 => {
                ($2                 ? ( base     => $2 ) : ()),
                ($3                 ? ( todo     => $3 ) : ()),
                (index($4, 'v') >= 0 ? ( varargs  => 1  ) : ()),
                (index($4, 'p') >= 0 ? ( provided => 1  ) : ()),
                (index($4, 'n') >= 0 ? ( nothxarg => 1  ) : ()),
               } )
            : die "invalid spec: $_" } qw(
AvFILLp|5.004050||p
AvFILL|||
```

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yywarn|||
);

if
 (exists $opt{'list-unsupported'}) {
 my $f;
 for $f (sort { lc $a cmp lc $b } keys %API) {
   next unless $API{$f}{todo};
   print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
 }
 exit 0;
}

# Scan for possible replacement candidates

my(%replace, %need, %hints, %depends);
my $replace = 0;
my $hint = '';

while (<DATA>) {
 if ($hint) {
   if (m{^\s*\*\s(.*?)\s*$})
 {
     $hints{$hint} ||= '';  # suppress warning with older perls
     $hints{$hint} .= "$1\n";
   }
   else {
     $hint = '';
```

```
  }
 }
 $hint = $1 if m{^\s*$rccs\sHint:\s+(\w+)\s*$};

 $replace     = $1 if m{^\s*$rccs\s+Replace:\s+(\d+)\s+$rcce\s*$};
 $replace{$2} = $1 if $replace and m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(\w+)};
 $replace{$2} = $1 if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(\w+).*$rccs\s+Replace\s+$rcce};
 $replace{$1} = $2 if m{^\s*$rccs\s+Replace (\w+) with (\w+)\s+$rcce\s*$};

 if (m{^\s*$rccs\s+(\w+)\s+depends\s+on\s+(\w+(\s*,\s*\w+)*)\s+$rcce\s*$}) {
  push @{$depends{$1}}, map { s/\s+//g; $_ } split /,/, $2;
 }

 $need{$1} = 1 if m{^#if\s+defined\(NEED_(\w+)(?:_GLOBAL)?\)};
}

if (exists $opt{'api-info'}) {
 my $f;
 my $count = 0;
 my $match = $opt{'api-info'} =~ m!^/(.*)/$! ? $1 : "^\Q$opt{'api-info'}\E\$";
 for $f (sort { lc $a cmp lc $b } keys %API) {
  next unless $f =~ /$match/;
  print "\n=== $f ===\n\n";
  my $info
 = 0;
  if ($API{$f}{base} || $API{$f}{todo}) {
   my $base = format_version($API{$f}{base} || $API{$f}{todo});
   print "Supported at least starting from perl-$base.\n";
   $info++;
  }
  if ($API{$f}{provided}) {
   my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
   print "Support by $ppport provided back to perl-$todo.\n";
   print "Support needs to be explicitly requested by NEED_$f.\n" if exists $need{$f};
   print "Depends on: ", join(', ', @{$depends{$f}}), ".\n" if exists $depends{$f};
   print "$hints{$f}" if exists $hints{$f};
   $info++;
  }
  unless ($info) {
   print "No portability information available.\n";
  }
  $count++;
 }
 if ($count > 0) {
  print "\n";
 }
 else {
  print "Found no API matching '$opt{'api-info'}'.\n";
```

```
 }
 exit 0;
}

if (exists $opt{'list-provided'}) {
 my $f;
 for $f (sort { lc $a cmp lc $b } keys %API) {
   next unless $API{$f}{provided};
   my @flags;
   push @flags,
 'explicit' if exists $need{$f};
   push @flags, 'depend'   if exists $depends{$f};
   push @flags, 'hint'     if exists $hints{$f};
   my $flags = @flags ? '  ['.join(', ', @flags).']' : '';
   print "$f$flags\n";
 }
 exit 0;
}

my @files;
my @srcext = qw( xs c h cc cpp );
my $srcext = join '|', @srcext;

if (@ARGV) {
 my %seen;
 @files = grep { -f && !exists $seen{$_} } map { glob $_ } @ARGV;
}
else {
 eval {
   require File::Find;
   File::Find::find(sub {
     $File::Find::name =~ /\.($srcext)$/i
         and push @files, $File::Find::name;
   }, '.');
 };
 if ($@) {
   @files = map { glob "*.$_" } @srcext;
 }
}

if (!@ARGV || $opt{filter}) {
 my(@in, @out);
 my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
 for (@files) {
   my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/\.($srcext)$/i;
   push @{ $out ? \@out : \@in }, $_;
 }
 if (@ARGV && @out) {
```

```
  warning("Skipping the following files (use --nofilter to avoid this):\n| ",
 join "\n| ", @out);
 }
 @files = @in;
}

unless (@files) {
 die "No input files given!\n";
}

my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;

for $filename (@files) {
 unless (open IN, "<$filename") {
  warn "Unable to read from $filename: $!\n";
  next;
 }

 info("Scanning $filename ...");

 my $c = do { local $/; <IN> };
 close IN;

 my %file = (orig => $c, changes => 0);

 # temporarily remove C comments from the code
 my @ccom;
 $c =~ s{
  (
     [^"'/]+
    |
     (?:"[^"\\]*(?:\\.[^"\\]*)*" [^"'/]*)+
    |
     (?:'[^'\\]*(?:\\.[^'\\]*)*' [^"'/]*)+
  )
|
  (/ (?:
     \*[^*]*\*+(?:[^$ccs][^*]*\*+)* /
     |
     /[^\r\n]*
    ))
 }{
  defined $2 and push @ccom, $2;
  defined $1 ? $1 : "$ccs$#ccom$cce";
 }egsx;
```

```
$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = ($c =~ /#.*include.*\Q$ppport\E/);

my $func;

for $func (keys %API) {
  my $match = $func;
   $match .= "|$revreplace{$func}" if exists $revreplace{$func};
  if ($c =~ /\b(?:Perl_)?($match)\b/) {
    $file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
    $file{uses_Perl}{$func}++ if $c =~ /\bPerl_$func\b/;
    if (exists $API{$func}{provided}) {
      if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
        $file{uses}{$func}++;
        my @deps = rec_depend($func);
        if (@deps) {
          $file{uses_deps}{$func} = \@deps;
          for (@deps) {
            $file{uses}{$_} = 0 unless exists $file{uses}{$_};
          }
        }
        for ($func, @deps) {
          if (exists $need{$_}) {
            $file{needs}{$_} = 'static';
          }
        }
      }
    }
    if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
      if ($c =~ /\b$func\b/) {
        $file{uses_todo}{$func}++;
      }
    }
  }
}

while ($c =~
/^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
  if (exists $need{$2}) {
    $file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
  }
  else {
    warning("Possibly wrong #define $1 in $filename");
  }
}
```

```
 for (qw(uses needs uses_todo needed_global needed_static)) {
   for $func (keys %{$file{$_}}) {
     push @{$global{$_}{$func}}, $filename;
   }
 }

 $files{$filename} = \%file;
}

# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
 if (@{$global{needs}{$need}} > 1) {
   my @targets = @{$global{needs}{$need}};
   my @t = grep $files{$_}{needed_global}{$need}, @targets;
   @targets = @t if @t;
   @t = grep /\.xs$/i, @targets;
   @targets = @t if @t;
   my $target = shift @targets;
   $files{$target}{needs}{$need} = 'global';
   for (@{$global{needs}{$need}}) {
     $files{$_}{needs}{$need} = 'extern' if $_ ne $target;
   }
 }
}

for $filename (@files) {
 exists $files{$filename} or next;

 info("=== Analyzing $filename
 ===");

 my %file = %{$files{$filename}};
 my $func;
 my $c = $file{code};

 for $func (sort keys %{$file{uses_Perl}}) {
   if ($API{$func}{varargs}) {
     my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)(?!aTHX_?)(\)|[^\s)]*\))}
                         { $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_ ') . $2 }ge);
     if ($changes) {
       warning("Doesn't pass interpreter argument aTHX to Perl_$func");
       $file{changes} += $changes;
     }
   }
   else {
     warning("Uses Perl_$func instead of $func");
     $file{changes} += ($c =~ s{\bPerl_$func(\s*)\((\s*aTHX_?)?\s*}
```

```
                        {$func$1(}g);
  }
}

for $func (sort keys %{$file{uses_replace}}) {
  warning("Uses $func instead of $replace{$func}");
  $file{changes} += ($c =~ s/\b$func\b/$replace{$func}/g);
}

for $func (sort keys %{$file{uses}}) {
  next unless $file{uses}{$func};   # if it's only a dependency
  if (exists $file{uses_deps}{$func}) {
    diag("Uses $func, which
depends on ", join(', ', @{$file{uses_deps}{$func}}));
  }
  elsif (exists $replace{$func}) {
    warning("Uses $func instead of $replace{$func}");
    $file{changes} += ($c =~ s/\b$func\b/$replace{$func}/g);
  }
  else {
    diag("Uses $func");
  }
  hint($func);
}

for $func (sort keys %{$file{uses_todo}}) {
  warning("Uses $func, which may not be portable below perl ",
          format_version($API{$func}{todo}));
}

for $func (sort keys %{$file{needed_static}}) {
  my $message = '';
  if (not exists $file{uses}{$func}) {
    $message = "No need to define NEED_$func if $func is never used";
  }
  elsif (exists $file{needs}{$func} && $file{needs}{$func} ne 'static') {
    $message = "No need to define NEED_$func when already needed globally";
  }
  if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
  }
}

for $func (sort keys %{$file{needed_global}}) {
  my $message =
'';
  if (not exists $global{uses}{$func}) {
```

```
    $message = "No need to define NEED_${func}_GLOBAL if $func is never used";
  }
  elsif (exists $file{needs}{$func}) {
    if ($file{needs}{$func} eq 'extern') {
      $message = "No need to define NEED_${func}_GLOBAL when already needed globally";
    }
    elsif ($file{needs}{$func} eq 'static') {
      $message = "No need to define NEED_${func}_GLOBAL when only used in this file";
    }
  }
  if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func}_GLOBAL\b.*$LF//mg);
  }
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
  my $pp = '';

  for $func (sort keys %{$file{needs}}) {
    my $type = $file{needs}{$func};
    next if $type eq 'extern';
    my $suffix = $type eq 'global' ? '_GLOBAL' : '';
    unless (exists $file{"needed_$type"}{$func}) {
      if ($type eq 'global') {
        diag("Files [@{$global{needs}{$func}}]
need $func, adding global request");
      }
      else {
        diag("File needs $func, adding static request");
      }
      $pp .= "#define NEED_$func$suffix\n";
    }
  }

  if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m)) {
    $pp = '';
    $file{changes}++;
  }

  unless ($file{has_inc_ppport}) {
    diag("Needs to include '$ppport'");
    $pp .= qq(#include "$ppport"\n)
  }

  if ($pp) {
```

```
    $file{changes} += ($c =~ s/^($HS*#$HS*define$HS+NEED_\w+.*?)^/$1$pp/ms)
                || ($c =~ s/^(?=$HS*#$HS*include.*\Q$ppport\E)/$pp/m)
                || ($c =~ s/^($HS*#$HS*include.*XSUB.*\s*?)^/$1$pp/m)
                || ($c =~ s/^/$pp/);
  }
}
else {
  if ($file{has_inc_ppport}) {
    diag("No need to include '$ppport'");
    $file{changes} += ($c =~ s/^$HS*?#$HS*include.*\Q$ppport\E.*?$LF//m);
  }
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for
$ix (0 .. $#ccom) {
  if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
    $cppc++;
    $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
  }
  else {
    $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
  }
}

if ($cppc) {
  my $s = $cppc != 1 ? 's' : '';
  warning("Uses $cppc C++ style comment$s, which is not portable");
}

if ($file{changes}) {
  if (exists $opt{copy}) {
    my $newfile = "$filename$opt{copy}";
    if (-e $newfile) {
      error("'$newfile' already exists, refusing to write copy of '$filename'");
    }
    else {
      local *F;
      if (open F, ">$newfile") {
        info("Writing copy of '$filename' with changes to '$newfile'");
        print F $c;
        close F;
      }
      else {
        error("Cannot open '$newfile' for writing: $!");
```

```
      }
    }
  }
  elsif (exists $opt{patch} || $opt{changes}) {
    if (exists $opt{patch}) {
      unless ($patch_opened) {
        if (open PATCH, ">$opt{patch}")
 {
          $patch_opened = 1;
        }
        else {
          error("Cannot open '$opt{patch}' for writing: $!");
          delete $opt{patch};
          $opt{changes} = 1;
          goto fallback;
        }
      }
      mydiff(\*PATCH, $filename, $c);
    }
    else {
fallback:
      info("Suggested changes:");
      mydiff(\*STDOUT, $filename, $c);
    }
  }
  else {
    my $s = $file{changes} == 1 ? '' : 's';
    info("$file{changes} potentially required change$s detected");
  }
 }
 else {
  info("Looks good");
 }
}

close PATCH if $patch_opened;

exit 0;


sub mydiff
{
 local *F = shift;
 my($file, $str) = @_;
 my $diff;

 if (exists $opt{diff}) {
  $diff = run_diff($opt{diff}, $file, $str);
```

```
 }

 if (!defined $diff and can_use('Text::Diff')) {
   $diff = Text::Diff::diff($file, \$str, { STYLE => 'Unified' });
   $diff = <<HEADER . $diff;
--- $file
+++ $file.patched
HEADER
 }

 if (!defined $diff) {
   $diff =
 run_diff('diff -u', $file, $str);
 }

 if (!defined $diff) {
   $diff = run_diff('diff', $file, $str);
 }

 if (!defined $diff) {
   error("Cannot generate a diff. Please install Text::Diff or use --copy.");
   return;
 }

 print F $diff;

}

sub run_diff
{
 my($prog, $file, $str) = @_;
 my $tmp = 'dppptemp';
 my $suf = 'aaa';
 my $diff = '';
 local *F;

 while (-e "$tmp.$suf") { $suf++ }
 $tmp = "$tmp.$suf";

 if (open F, ">$tmp") {
   print F $str;
   close F;

   if (open F, "$prog $file $tmp |") {
     while (<F>) {
       s/\Q$tmp\E/$file.patched/;
       $diff .= $_;
     }
```

```
    close F;
    unlink $tmp;
    return $diff;
  }

  unlink $tmp;
 }
 else {
  error("Cannot open '$tmp' for writing: $!");
 }

 return undef;
}

sub can_use
{
 eval "use @_;";
 return $@ eq '';
}

sub rec_depend
{
 my $func = shift;
 my %seen;
 return () unless exists $depends{$func};
 grep !$seen{$_}++, map { ($_, rec_depend($_)) } @{$depends{$func}};
}

sub parse_version
{
  my $ver = shift;

 if ($ver =~ /^(\d+)\.(\d+)\.(\d+)$/) {
  return ($1, $2, $3);
 }
 elsif ($ver !~ /^\d+\.[\d_]+$/) {
  die "cannot parse version '$ver'\n";
 }

 $ver =~ s/_//g;
 $ver =~ s/$/000000/;

 my($r,$v,$s) = $ver =~ /(\d+)\.(\d{3})(\d{3})/;

 $v = int $v;
 $s = int $s;

 if ($r < 5 || ($r == 5 && $v < 6)) {
```

```
  if ($s % 10) {
    die "cannot parse version '$ver'\n";
  }
 }

 return ($r, $v, $s);
}

sub format_version
{
 my $ver = shift;

 $ver =~ s/$/000000/;
 my($r,$v,$s) = $ver =~ /(\d+)\.(\d{3})(\d{3})/;

 $v = int $v;
 $s = int $s;

 if ($r < 5 || ($r == 5 && $v < 6)) {
  if ($s % 10) {
    die "invalid version '$ver'\n";
  }
  $s /= 10;

  $ver = sprintf "%d.%03d", $r, $v;
  $s > 0 and $ver .= sprintf "_%02d", $s;

  return $ver;
 }

 return sprintf "%d.%d.%d", $r, $v, $s;
}

sub info
{
 $opt{quiet} and return;
 print @_, "\n";
}

sub diag
{
 $opt{quiet} and return;
 $opt{diag} and print @_, "\n";
}

sub warning
{
```

```
  $opt{quiet} and return;
 print "*** ", @_, "\n";
}

sub error
{
 print "*** ERROR: ", @_, "\n";
}

my %given_hints;
sub hint
{
 $opt{quiet} and return;
 $opt{hints} or return;
 my $func = shift;
 exists $hints{$func} or return;
 $given_hints{$func}++ and return;
 my $hint = $hints{$func};
 $hint =~ s/^/   /mg;
 print "   --- hint for $func ---\n", $hint;
}

sub usage
{
 my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
 my %M = ( 'I' => '*' );
 $usage =~ s/^\s*perl\s+\S+/$^X $0/;
 $usage =~ s/([A-Z])<([^>]+)>/$M{$1}$2$M{$1}/g;

 print <<ENDUSAGE;

Usage: $usage

See perldoc $0 for details.

ENDUSAGE

 exit 2;
}

__DATA__
*/
```

Found in path(s):
* /opt/cola/permits/2134360468_1722971905.3934088/0/libalgorithm-diff-xs-perl-0-04-orig-1-tar-gz/Algorithm-Diff-XS-0.04/ppport.h
No license file was found, but licenses were detected in source scan.

```
---
abstract: Algorithm::Diff with XS core loop
author: Audrey Tang <cpan@audreyt.org>
distribution_type: module
generated_by: Module::Install version 0.67
license: perl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.3.html
 version: 1.3
name: Algorithm-Diff-XS
no_index:
 directory:
   - inc
   - t
requires:
 Algorithm::Diff: 1.19
 perl: 5.6.0
version: 0.01
```

Found in path(s):
* /opt/cola/permits/2134360468_1722971905.3934088/0/libalgorithm-diff-xs-perl-0-04-orig-1-tar-gz/Algorithm-Diff-XS-0.04/META.yml
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NAME

Algorithm::Diff::XS - Algorithm::Diff with XS core loop

SYNOPSIS

```
    # Drop-in replacement to Algorithm::Diff, but "compact_diff"
    # and C<LCSidx> will run much faster for large data sets.
    use Algorithm::Diff::XS qw( compact_diff LCSidx );
```

DESCRIPTION

This module is a simple re-packaging of Joe Schaefer's excellent but not very well-known Algorithm::LCS with a drop-in interface that simply re-uses the installed version of the Algorithm::Diff module.

Note that only the "LCSidx" function is optimized in XS at the moment, which means only "compact_diff" will get significantly faster for large data sets, while "diff" and "sdiff" will run in identical speed as "Algorithm::Diff".

BENCHMARK

```
                    Rate     Algorithm::Diff Algorithm::Diff::XS
Algorithm::Diff     14.7/s                --              -98%
Algorithm::Diff::XS  806/s
        5402%                --
```

The benchmarking script is as below:

```
my @data = ([qw/a b d/ x 50], [qw/b a d c/ x 50]);
cmpthese( 500, {
   'Algorithm::Diff' => sub {
      Algorithm::Diff::compact_diff(@data)
   },
   'Algorithm::Diff::XS' => sub {
      Algorithm::Diff::XS::compact_diff(@data)
   },
});
```

SEE ALSO

Algorithm::Diff, Algorithm::LCS.

AUTHORS

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Algorithm::Diff::XS - Algorithm::Diff with XS core loop

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This module is a simple re-packaging of Joe Schaefer's excellent
but not very well-known L<Algorithm::LCS> with a drop-in interface
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=head1 SEE ALSO

L<Algorithm::Diff>, L<Algorithm::LCS>.

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1.4786 dosfs-tools 4.2-1.1build1

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.\" mode: nroff
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.\" vim: filetype=groff:
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grn preprocessor
==========

grn, written by Barry Roitblat <barry@rentonww.com> and David Slattengren <slatteng@Xinet.COM>, was part of the Berkeley device-independent troff distribution. The files contain no AT&T code

and are in the public domain. Historically, the original package could be found at <http://ftp.cs.wisc.edu/pub/misc/grn.tar.Z>.

src/preproc/grn/gprint.h
src/preproc/grn/hdb.cpp
src/preproc/grn/hgraph.cpp
src/preproc/grn/hpoint.cpp
src/preproc/grn/main.cpp

gxditview output driver
==========

gxditview is based on the X Window System (Version 11)'s "xditview" program, and is licensed under the same terms as the rest of X11R5.

src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap-X11
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c
src/devices/xditview/page.c
src/devices/xditview/parse.c
src/devices/xditview/xdit.bm
src/devices/xditview/xdit_mask.bm
src/devices/xditview/xditview.c

src/include/DviChar.h
src/include/XFontName.h

src/libs/libxutil/DviChar.c
src/libs/libxutil/XFontName.c

mdoc
 macro package
==========

mdoc uses the BSD "three-clause" license; that is, it is subject to the
advertising clause rescission.

 tmac/doc.tmac
 tmac/doc-old.tmac
 tmac/mdoc/doc-common
 tmac/mdoc/doc-ditroff
 tmac/mdoc/doc-nroff
 tmac/mdoc/doc-syms
 tmac/groff_mdoc.7.man

me
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==========

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 tmac/e.tmac
 tmac/groff_me.man
 doc/meintro.me
 doc/meintro_fr.me
 doc/meref.me

Hyphenation patterns
==========

groff's hyphenation pattern files are adapted from those used by various
TeX-related projects.

* "tmac/hyphen.cs" is renamed from "czhyphen.tex", and obtained from
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* "tmac/hyphen.den" and "tmac/hyphen.det" are renamed from
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 respectively, in the "dehyph-exptl-0.41" package.

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*
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.\" Local Variables:
.\" mode: nroff
.\" End:
.\" vim: filetype=groff:

1.4803 xmlsec 1.2.39-5build2

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1.4804 lombok 1.18.34

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1.4805 pyyaml 6.0.2

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1.4806 kubernetes-cliruntime 0.30.3

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1.4808 nats 1.36.0

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 "BSD 2-Clause with views sentence":       "BSD-2-Clause-Views",
 "BSD 2-Clause \"Simplified\" License":    "BSD-2-Clause",
 "BSD 3-Clause \"New\" or \"Revised\" License": "BSD-3-Clause",
 "BSD 3-Clause Clear License":            "BSD-3-Clause",
 "BSD 3-Clause License":                  "BSD-3-Clause",
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 "zlib License":                         "Zlib"
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```

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Dependency license verification tool

This tool allows the verification of information in
`docs/LICENSE_OF_DEPENDENCIES.md` against the linked license
information. To do so, the license reported by the user is

checked against the license classification of the downloaded
license file for each dependency.

Building

```shell
make build_tools
```

Running

The simplest way to run the verification tool is to execute

```shell
telegraf$ ./tools/license_checker/license_checker
```

using the current directory as telegraf's root directory and verifies
all licenses. Only errors will be reported by default.

There are multiple options you can use to customize the verification.
Take a look at

```shell
telegraf$ ./tools/license_checker/license_checker --help
```

to get an overview.

As the verification tool downloads each license file linked in the
dependency license document, you should be careful on not exceeding
the access limits of e.g. GitHub by running the tool too frequent.

Some
 packages change the license for newer versions. As we always
link to the latest license text the classification might not match
the actual license of our used dependency. Furthermore, some license
text might be wrongly classified, or not classified at all. In these
cases, you can use a _whitelist_ to explicitly state the license
SPDX classifier for those packages.
See the [whitelist section](#whitelist) for more details.

The recommended use in telegraf is to run

```shell
telegraf$ ./tools/license_checker/license_checker \
        -whitelist ./tools/license_checker/data/whitelist
```

using the code-versioned whitelist. This command will report all
non-matching entries with an `ERR:` prefix.

Whitelist

Whitelist entries contain explicit license information for
a set of packages to use instead of classification. Each entry
in the whitelist is a line of the form

```text
[comparison operator]<package name>[@vX.Y.Z] <license SPDX>
```

where the _comparison operator_ is one of
`>`, `>=`, `=`, `<=` or `<`
and the _license SPDX_ is a [SPDX license identifier][spdx].
In case no package version is specified, the entry matches all versions
of the library. Furthermore, the comparison operator can be omitted
which is equivalent to an exact match (`=`).

The entries are processed in order until the first match is found.

Here is an example of a whitelist. Assume that you have library
`github.com/foo/bar` which started out with the `MIT` license
until version 1.0.0 where it changed to `EFL-1.0` until it again
changed to `EFL-2.0` starting __after__ version 2.3.0. In this case
the whitelist should look like this

```text
<github.com/foo/bar@v1.0.0 MIT
<=github.com/foo/bar@v2.3.0 EFL-1.0
github.com/foo/bar EFL-2.0
```

All versions below 1.0.0 are matched by the first line and are thus
classified as `MIT`. The second line matches everything that is
above 1.0.0 (thus not matched by the first line) until (and including)
2.3.0. The last line with catch everything that was
passing the first
two lines i.e. everything after 2.3.0.

[spdx]: https://spdx.org/licenses/
package main

import (
"bufio"
"log"

```
 "os"
 "regexp"
 "strings"

 "github.com/coreos/go-semver/semver"
)

type whitelist []whitelistEntry

type whitelistEntry struct {
 Name     string
 Version  *semver.Version
 Operator string
 License  string
}

var re = regexp.MustCompile(`^([<=>]+\s*)?([-\.\/\w]+)(@v[\d\.]+)?\s+([-\.\w]+)$`)

func (w *whitelist) Parse(filename string) error {
 file, err := os.Open(filename)
 if err != nil {
  return err
 }
 defer file.Close()

 // Read file line-by-line and split by semicolon
 lineno := 0
 scanner := bufio.NewScanner(file)
 for scanner.Scan() {
  line := strings.TrimSpace(scanner.Text())
  lineno++
  if strings.HasPrefix(line, "#") {
   // Comment
   continue
  }

  groups := re.FindAllStringSubmatch(line, -1)
  if len(groups) != 1 {
   log.Printf("WARN: Ignoring not matching entry in line %d", lineno)
   continue
  }
  group := groups[0]
  if len(group) != 5 {
   // Malformed
   log.Printf("WARN: Ignoring malformed entry in line %d", lineno)
   continue
  }
```

```
 //
An entry has the form:
 // [operator]<package name>[@version] [license SPDX]
 var operator, version string
 if group[1] != "" {
  operator = strings.TrimSpace(group[1])
 }
 name := group[2]
 if group[3] != "" {
  version = strings.TrimSpace(group[3])
  version = strings.TrimLeft(version, "@v")
 }
 license := strings.TrimSpace(group[4])

 entry := whitelistEntry{Name: name, License: license, Operator: operator}
 if version != "" {
  entry.Version, err = semver.NewVersion(version)
  if err != nil {
   // Malformed
   log.Printf("Ignoring malformed version in line %d: %v", lineno, err)
   continue
  }
  if entry.Operator == "" {
   entry.Operator = "="
  }
 }
 *w = append(*w, entry)
}

 return scanner.Err()
}

func (w *whitelist) Check(pkg, version, spdx string) (ok, found bool) {
 v := strings.TrimSpace(version)
 v = strings.TrimPrefix(v, "v")
 if v == "" {
  return false, false
 }
 pkgver := *semver.New(v)

 for _, entry := range *w {
  if entry.Name
 != pkg {
   continue
  }

  var match bool
  switch entry.Operator {
```

```
  case "":
   match = true
  case "=":
   match = pkgver.Equal(*entry.Version)
  case "<":
   match = pkgver.LessThan(*entry.Version)
  case "<=":
   match = pkgver.LessThan(*entry.Version) || pkgver.Equal(*entry.Version)
  case ">":
   match = !(pkgver.LessThan(*entry.Version) || pkgver.Equal(*entry.Version))
  case ">=":
   match = !pkgver.LessThan(*entry.Version)
  }
  if match {
   return entry.License == spdx, true
  }
 }

 return false, false
}
package main

import (
 "errors"
 "fmt"
 "io"
 "net/http"
 "net/url"
 "strings"

 "github.com/google/licensecheck"
)

type packageInfo struct {
 name    string
 version string
 license string
 url     string
 spdx    string
}

func (pkg *packageInfo) ToSPDX() {
 pkg.spdx = nameToSPDX[pkg.license]
}

func (pkg *packageInfo) Classify() (float64, error) {
 // Check for a valid SPDX
 if pkg.spdx == "" {
```

```
 return 0.0, fmt.Errorf("empty SPDX for license %q", pkg.license)
}

// Download the license text
source, err := normalizeURL(pkg.url)
if err != nil {
 return 0.0, fmt.Errorf("%q is not a valid URL: %w", pkg.url, err)
}
debugf("%q downloading from %q", pkg.name, source)

response, err := http.Get(source.String())
if err != nil {
 return 0.0, fmt.Errorf("download from %q failed: %w", source, err)
}
if response.StatusCode < 200 || response.StatusCode > 299 {
 status := response.StatusCode
 return 0.0, fmt.Errorf("download from %q failed %d: %s", source, status, http.StatusText(status))
}
defer
response.Body.Close()
text, err := io.ReadAll(response.Body)
if err != nil {
 return 0.0, fmt.Errorf("reading body failed: %w", err)
}
if len(text) < 1 {
 return 0.0, errors.New("empty body")
}

// Classify the license text
coverage := licensecheck.Scan(text)
if len(coverage.Match) == 0 {
 return coverage.Percent, errors.New("no match found")
}
match := coverage.Match[0]
debugf("%q found match: %q with confidence %f%%", pkg.name, match.ID, coverage.Percent)

if match.ID != pkg.spdx {
 return coverage.Percent, fmt.Errorf("classification %q does not match", match.ID)
}
return coverage.Percent, nil
}

func normalizeURL(raw string) (*url.URL, error) {
 u, err := url.Parse(raw)
 if err != nil {
  return nil, err
 }
```

```
 switch u.Hostname() {
 case "github.com":
  u.Host = "raw.githubusercontent.com"
  var cleaned []string
  for _, p := range strings.Split(u.Path, "/") {
   // Filter out elements
   if p == "blob" {
    continue
   }
   cleaned = append(cleaned,
p)
  }
  u.Path = strings.Join(cleaned, "/")
 case "gitlab.com":
  u.Path = strings.Replace(u.Path, "/-/blob/", "/-/raw/", 1)
 case "git.octo.it":
  parts := strings.Split(u.RawQuery, ";")
  for i, p := range parts {
   if p == "a=blob" {
    parts[i] = "a=blob_plain"
    break
   }
  }
  u.RawQuery = strings.Join(parts, ";")
 }

 return u, nil
}
```

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1.4809 urfave-cli 2.27.3

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1.4810 x-crypto 0.26.0

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1.4811 x-net 0.28.0

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1.4812 x-text 0.17.0

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1.4813 x-oauth2 0.22.0

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1.4814 x-time-rate 0.6.0

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1.4815 typing-extensions 4.12.2

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now		

PSF yes

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1.4816 github.com/google/cel-go 0.20.1

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==========
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1.4817 kubernetes-apimachinery 0.30.3

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1.4818 golang-org-x-exp 0.0.0-20240719175910-8a7402abbf56

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1.4819 foreground-child 3.3.0

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1.4820 golang 1.22.6

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1.4823 gomega 1.32.0

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1.4824 golang 1.21.13

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1.4827 pkgconf 2.3.0-r0

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1.4828 jzlib 0.2.16

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1.4829 x-sys 0.23.0

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1.4830 googlecloudgocomputemetadata 0.5.0

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1.4831 cloud.google.com/go/auth/oauth2adapt 0.2.3

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
```

```
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
```

```
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
}
resp,
err := c.Get(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetIamPolicyLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
}
resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
```

```
func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
```

```
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp

  // If you need to access the underlying RPC response,
  // you can do so by casting the `Response` as below.
  // Otherwise, remove this line. Only populated after
  // first call to Next(). Not safe for concurrent access.
  _ = it.Response.(*computepb.LicensesListResponse)
 }
}

func
 ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically
```

```
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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package compute_test

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 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
```

```
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
```

```
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseCodeRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
}
resp,
err := c.TestIamPermissions(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
```

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```
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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.34.2
//  protoc        v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)
```

```
const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
```

```
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":            1,
  "WRITER":           2,
  "READER":           3,
```

```
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
```

```
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 if protoimpl.UnsafeEnabled {
  mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission)
 ProtoReflect() protoreflect.Message {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
```

```
  ms.StoreMessageInfo(mi)
 }
 return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role
 != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
```

0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
0x19, 0x67, 0x6f,
0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
0x0b, 0x67,
0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,

```
 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
 0x64,
 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
 0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
 0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
 = []any{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
```

```
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func
 file_google_ai_generativelanguage_v1beta_permission_proto_init() {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 if !protoimpl.UnsafeEnabled {
  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v any, i int) any {
   switch v := v.(*Permission); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
  GoTypes:           file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
  DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
  EnumInfos:
         file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
  MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
 }.Build()
 File_google_ai_generativelanguage_v1beta_permission_proto = out.File
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
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```

```
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// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete          []gax.CallOption
 Get             []gax.CallOption
 GetIamPolicy    []gax.CallOption
 Insert          []gax.CallOption
 List            []gax.CallOption
 SetIamPolicy    []gax.CallOption
```

```
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy:
 []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  Insert: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  List: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
```

```
  SetIamPolicy: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000
 * time.Millisecond),
  },
 }
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}
```

```
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
 for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by
third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
```

```
 list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use
 only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
```

```
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
```

```
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient
 = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params",
 fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "license",
url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
```

```
opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf,
err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}
```

```
// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()),
 "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }
```

```
  if err
 := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and
 context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
```

```
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp);
err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
```

```
 return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.RequestId != nil {
 params.Add("requestId",
fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err !=
nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }
```

```
 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *licensesRESTClient)
 List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

  params := url.Values{}
  if req != nil && req.Filter != nil {
   params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
```

```
 }
 if req != nil && req.MaxResults != nil {
  params.Add("maxResults",
fmt.Sprintf("%v", req.GetMaxResults()))
 }
 if req != nil && req.OrderBy != nil {
  params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
 }
 if req != nil && req.PageToken != nil {
  params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
 }
 if req != nil && req.ReturnPartialSuccess != nil {
  params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := append(c.xGoogHeaders, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return
err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
```

```
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only
 by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
```

```
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
```

```
// TestIamPermissions returns permissions that a caller has on
 the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type",
 "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
```

```
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return
nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}
```

1.4832 py3-setuptools-pyc 70.3.0-r0

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1.4833 stdlib go1.22.6

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1.4834 mod 0.20.0

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1.4835 go-yaml v3.0.1

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1.4836 ruamel-yaml 0.17.28

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1.4837 stdlib go1.23.0

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1.4838 kustomize-kustomize 5.4.2

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package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
 Plugin     string
 Option     string
 Severity   string // 'deprecated', 'removed', or 'unsupported'
 ReplacedBy string
 Additional string
 Version    string
}

func (n *Notice) ToString() string {
 s := ""
 if n.Option == "" {
  s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
 } else {
  s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
 }
 if n.Severity == SevUnsupported {
  s += "is unsupported by this migration tool in " + n.Version + "."
 } else if n.Severity == SevNewDefault {
  s += "is added as a default in " + n.Version + "."
 } else {
  s += "is " + n.Severity + " in " + n.Version + "."
 }
 if n.ReplacedBy != "" {
  s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
 }
 if n.Additional != "" {
  s += " " + n.Additional
 }
 return s
}

const (
 // The following statuses are used to indicate the state of support/deprecation in a given release.
 SevDeprecated  = "deprecated"
```

```
  // deprecated, but still completely functional
 SevIgnored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
 SevRemoved     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present
in the Corefile
 SevNewDefault  = "newdefault"  // added to the default corefile.  CoreDNS may not function properly if it is not
present in the corefile.
 SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool

 // The following statuses are used for selecting/filtering notifications
 SevAll = "all" // show all statuses
)
```

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==========
The common/types/pb/equal.go modification of proto.Equal logic
==========
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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL string `json:"url,omitempty"`

}
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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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==========
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==========
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```

1.4843 google-golang-org-genproto 0.0.0-20240228224816-df926f6c8641

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(1)

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1.4845 libpsl5t64 0.21.2-1.1build1

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will operate properly with a modified version of the library,
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1.4854 libxpm 3.5.17-1build2

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1.4856 argon2 0~20190702+dfsg-4build1

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1.4858 gpt-fdisk 1.0.10-1build1

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1.4860 json-c 1.2304.0-1build1

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1.4861 newt 0.52.24-2ubuntu2

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1.4862 libde 1.0.15-1build3

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```

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```
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```

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1.4867 duktape 2.7.0+tests-0ubuntu3

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// Original can be found at:
// https://bitbucket.org/lindenlab/llsd
// Modifications by Joshua Bell inexorabletash@gmail.com
// https://github.com/inexorabletash/polyfill

// ES3/ES5 implementation of the Krhonos Typed Array Specification
// Ref: http://www.khronos.org/registry/typedarray/specs/latest/
// Date: 2011-02-01
//
// Variations:
// * Allows typed_array.get/set() as alias for subscripts (typed_array[])

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GNU GPL, and only to the extent that such information is
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1.4873 mesa 21.3.9-0ubuntu2

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# LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
# OUT OF OR
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# SOFTWARE.

libfreedreno_layout = static_library(
 'freedreno_layout',
 [
   'fd5_layout.c',
   'fd6_format_table.c',
   'fd6_layout.c',
   'freedreno_layout.c',
   freedreno_xml_header_files,
 ],
 include_directories : [inc_freedreno, inc_include, inc_src, inc_mapi, inc_mesa, inc_gallium, inc_gallium_aux],
 c_args : [no_override_init_args],
 gnu_symbol_visibility : 'hidden',
 dependencies : [idep_nir_headers, idep_mesautil],
 build_by_default : false,
)

foreach major : ['5', '6']
 test(
   'fd' + major + '_layout',
   executable(
     'fd' + major + '_layout',
     [
       'fd_layout_test.c',
       'fd' + major + '_layout_test.c',
       freedreno_xml_header_files,
     ],
     link_with: libfreedreno_layout,
     dependencies : idep_mesautil,
     include_directories: [
       inc_include,
       inc_src,
       inc_mapi,
       inc_mesa,
       inc_gallium,
       inc_gallium_aux,
```

```
        inc_freedreno],
    ),
    suite : ['freedreno'],
  )
endforeach
```

abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKMLNOPQRSTUVWXYZ
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0123456789

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1.4877 libxi 1.8.1-1build1

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1.4878 mhash 0.9.9.9-9build3

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1.4880 mesa-amber 21.3.9-0ubuntu2

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# SOFTWARE.

libfreedreno_layout = static_library(
 'freedreno_layout',
 [
   'fd5_layout.c',
   'fd6_format_table.c',
```

```
  'fd6_layout.c',
  'freedreno_layout.c',
  freedreno_xml_header_files,
 ],
 include_directories : [inc_freedreno, inc_include, inc_src, inc_mapi, inc_mesa, inc_gallium, inc_gallium_aux],
 c_args : [no_override_init_args],
 gnu_symbol_visibility : 'hidden',
 dependencies : [idep_nir_headers, idep_mesautil],
 build_by_default : false,
)

foreach major : ['5', '6']
 test(
  'fd' + major + '_layout',
  executable(
   'fd' + major + '_layout',
   [
    'fd_layout_test.c',
    'fd' + major + '_layout_test.c',
    freedreno_xml_header_files,
   ],
   link_with: libfreedreno_layout,
   dependencies : idep_mesautil,
   include_directories: [
    inc_include,
    inc_src,
    inc_mapi,
    inc_mesa,
    inc_gallium,
    inc_gallium_aux,
     inc_freedreno],
  ),
  suite : ['freedreno'],
 )
endforeach
```

abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKMLNOPQRSTUVWXYZ
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1.4881 libpwquality 1.4.5-3build1

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.4882 libglu 9.0.2-1.1build1

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* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/interface/insurfeval.cc
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* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/monoPolyPart.cc
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/sampleCompRight.cc
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*

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* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/arcsorter.cc
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AC_PREREQ([2.60])
AC_INIT([glu],
      [9.0.2],
      [https://gitlab.freedesktop.org/mesa/glu/issues])
AC_CONFIG_SRCDIR([Makefile.am])
AC_CANONICAL_HOST

AM_INIT_AUTOMAKE([dist-xz foreign subdir-objects])

LT_PREREQ([2.2])
LT_INIT

dnl Check for progs
AC_PROG_CPP
AC_PROG_CC
AC_PROG_CXX

dnl Enable quiet compiles on automake 1.11.
m4_ifdef([AM_SILENT_RULES], [AM_SILENT_RULES([yes])])
```

```
AC_ARG_ENABLE(debug,
          AS_HELP_STRING([--enable-debug],
            [Enable debugging information]),
          [if test x$enableval = xyes; then
           CFLAGS="$CFLAGS -g -O0 -DDEBUG"
           CXXFLAGS="$CXXFLAGS -g -O0 -DDEBUG"; else
           CFLAGS="$CFLAGS -DNDEBUG"
           CXXFLAGS="$CXXFLAGS -DNDEBUG"; fi],
          [CFLAGS="$CFLAGS -DNDEBUG"

       CXXFLAGS="$CXXFLAGS -DNDEBUG"])

dnl Make sure the pkg-config macros are defined
m4_ifndef([PKG_PROG_PKG_CONFIG],
  [m4_fatal([Could not locate the pkg-config autoconf macros.
 These are usually located in /usr/share/aclocal/pkg.m4. If your macros
 are in a different location, try setting the environment variable
 ACLOCAL="aclocal -I/other/macro/dir" before running autoreconf.])])
PKG_PROG_PKG_CONFIG()

AC_ARG_ENABLE(libglvnd,
          AS_HELP_STRING([--enable-libglvnd],
            [Enable use of libglvnd]),
          [LIBGLVND="$enableval"],
          [LIBGLVND=no])

AC_ARG_ENABLE(osmesa,
          AS_HELP_STRING([--enable-osmesa],
            [Enable use of OSMesa instead of libGL]),
          [OSMESA="$enableval"],
          [OSMESA=no])

dnl Get the pkg-config definitions for libglvnd/OSMesa/libGL.  We include a
dnl fallback path for implementations that don't provide a .pc file
AS_IF([test "x$LIBGLVND" = "xyes"], [
  GLU_REQUIRES="libglvnd"
   PKG_CHECK_MODULES(LIBGLVND, [opengl], [], [
     AC_CHECK_HEADER([GL/gl.h],
                 [],
                 AC_MSG_ERROR([libglvnd GL not found]))
     AC_CHECK_LIB([OpenGL],
               [glBegin],
               [GL_LIBS=-lOpenGL],
               AC_MSG_ERROR([libglvnd libOpenGL required]))
  ])
], [test "x$OSMESA" = "xyes"], [
  GLU_REQUIRES="osmesa"
  PKG_CHECK_MODULES(OSMESA, [osmesa], [], [
```

```
      AC_CHECK_LIB([OSMesa],
                [glBegin],
                [OSMESA_LIBS=-lOSMesa],
                AC_MSG_ERROR([OSMesa required]))
  ])
], [
  GLU_REQUIRES="gl"
  PKG_CHECK_MODULES(GL, [gl], [], [
      AC_CHECK_HEADER([GL/gl.h],
                  [],
                  AC_MSG_ERROR([GL not found]))
      AC_CHECK_LIB([GL],
                [glBegin],
                [GL_LIBS=-lGL],
                AC_MSG_ERROR([GL required]))
  ])
])

AC_SUBST([GLU_REQUIRES])

dnl
 Set up C warning and visibility flags.
if test "x$GCC" = xyes; then
  WARNCFLAGS="-Wall"

  # Enable -fvisibility=hidden if using a gcc that supports it
  save_CFLAGS="$CFLAGS"
  AC_MSG_CHECKING([whether $CC supports -fvisibility=hidden])
  VISIBILITY_CFLAGS="-fvisibility=hidden"
  CFLAGS="$CFLAGS $VISIBILITY_CFLAGS"
  AC_LINK_IFELSE([AC_LANG_PROGRAM()], AC_MSG_RESULT([yes]),
              [VISIBILITY_CFLAGS=""; AC_MSG_RESULT([no])]);

  # Restore CFLAGS; VISIBILITY_CFLAGS are added to it where needed.
  CFLAGS=$save_CFLAGS

  if test "x$GXX" = xyes; then
      WARNCXXFLAGS="-Wall"

      # Enable -fvisibility=hidden if using a gcc that supports it
      save_CXXFLAGS="$CXXFLAGS"
      AC_MSG_CHECKING([whether $CXX supports -fvisibility=hidden])
      VISIBILITY_CXXFLAGS="-fvisibility=hidden"
      CXXFLAGS="$CXXFLAGS $VISIBILITY_CXXFLAGS"
      AC_LANG_PUSH([C++])
      AC_LINK_IFELSE([AC_LANG_PROGRAM()], AC_MSG_RESULT([yes]),
```

```
        [VISIBILITY_CXXFLAGS=""; AC_MSG_RESULT([no])]);
      AC_LANG_POP([C++])

      # Restore CXXFLAGS; VISIBILITY_CXXFLAGS are added to it where needed.
      CXXFLAGS=$save_CXXFLAGS
    fi
else
    AC_CHECK_DECL([__SUNPRO_C], [SUNCC="yes"], [SUNCC="no"])
    if test "x$SUNCC" = "xyes"; then
      WARNCFLAGS="-v"
      WARNCXXFLAGS="-v"
    fi
fi
AC_SUBST([WARNCFLAGS])
AC_SUBST([WARNCXXFLAGS])
AC_SUBST([VISIBILITY_CFLAGS])
AC_SUBST([VISIBILITY_CXXFLAGS])

AC_OUTPUT([
  Makefile
  glu.pc
])
```

Found in path(s):
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/configure.ac
No license file was found, but licenses were detected in source scan.

```
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* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/patch.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libtess/tess.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/mystdio.h
*
 /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/cachingeval.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/gridtrimvertex.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libtess/memalloc.c
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/interface/glsurfeval.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/trimvertex.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libtess/normal.c
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libtess/tessmono.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libtess/tess.c
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/arcsorter.h
*
 /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/types.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libtess/tessmono.c
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/flistsorter.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/sampledLine.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/partitionY.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/partitionX.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/uarray.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/monoTriangulation.h
*

/opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libtess/dict.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/zlassert.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/varray.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libutil/registry.c
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/dataTransform.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libutil/error.c
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/interface/mystdio.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libtess/dict.c
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libtess/mesh.h
*
/opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/include/GL/glu.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/patchlist.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libutil/project.c
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/jarcloc.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/sampleMonoPoly.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libtess/geom.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/renderhints.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/basiccrveval.h
*
/opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/defines.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/bufpool.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libtess/priorityq.c
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/curvelist.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/mystdlib.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/interface/bezierPatchMesh.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/primitiveStream.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/bezierarc.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/basicsurfeval.h
*
/opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/monoPolyPart.h

* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/rectBlock.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/searchTree.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/monotonizer.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/arc.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/sampleCompBot.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libtess/priorityq-heap.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/mesher.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/coveandtiler.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/trimvertpool.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libutil/mipmap.c
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/slicer.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/interface/glimports.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/bin.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libtess/mesh.c
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/interface/bezierEval.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/interface/mystdlib.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libtess/priorityq.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/displaymode.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/flist.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libtess/priorityq-heap.c
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/directedLine.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/hull.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/trimline.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libutil/glue.c
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libtess/memalloc.h

* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/mapdesc.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/knotvector.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/nurbsconsts.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libutil/quad.c
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/interface/glcurveval.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/gridWrap.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/mymath.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/maplist.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/interface/bezierPatch.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/sampleComp.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/polyDBG.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/gridline.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libtess/normal.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/myassert.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/sampleCompRight.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/subdivider.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libtess/render.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/polyUtil.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/nurbstess.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/trimregion.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/sampleCompTop.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/definitions.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/curve.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/sorter.h

* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/displaylist.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libtess/render.c
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/quilt.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/backend.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/gridvertex.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/pwlarc.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libutil/gluint.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libtess/dict-list.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/quicksort.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/interface/glrenderer.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/glimports.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libtess/geom.c
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/monoChain.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libtess/sweep.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/mysetjmp.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libtess/priorityq-sort.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libtess/sweep.c
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/reader.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/mystring.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/simplemath.h
* /opt/cola/permits/2148594876_1724014427.214224/0/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/arctess.h

1.4883 free-type 2.13.2+dfsg-1build3

1.4883.1 Available under license :

No license file was found, but licenses were detected in source scan.

/***
*
* rsvg-port.c

```
*
*   Librsvg-based hook functions for OT-SVG rendering in FreeType
*   (implementation).
*
* Copyright (C) 2022-2023 by
* David Turner, Robert Wilhelm, Werner Lemberg, and Moazin Khatti.
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*
*/
```

Found in path(s):
* /opt/cola/permits/2148594610_1727706026.1938062/0/freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/src/rsvg-port.c
No license file was found, but licenses were detected in source scan.

```
/*  Author:  David Turner  <david@freetype.org>
*
*  this filtering code is explicitly placed in the public domain !!
*/
```

Found in path(s):
* /opt/cola/permits/2148594610_1727706026.1938062/0/freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/graph/grswizzle.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*
*  grwin32.h  graphics driver for Win32 platform (header)
*
*  This is the driver for displaying inside a window under Win32,
*  used by the graphics utility of the FreeType test suite.
*
*  Written by Antoine Leca.
*  Copyright (C) 1999-2023 by
*  Antoine Leca, David Turner, Robert Wilhelm, and Werner Lemberg.
*
*  Borrowing liberally from the other FreeType drivers.
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```

```
*
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/2148594610_1727706026.1938062/0/freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/graph/win32/grwin32.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************
*
*  grwin32.c  graphics driver for Win32 platform
*
*  This is the driver for displaying inside a window under Win32,
*  used by the graphics utility of the FreeType test suite.
*
*  Written by Antoine Leca.
*  Copyright (C) 1999-2023 by
*  Antoine Leca, David Turner, Robert Wilhelm, and Werner Lemberg.
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*
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/2148594610_1727706026.1938062/0/freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/graph/win32/grwin32.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************
*
*  grbeos.c  graphics driver for BeOS platform.            0.1
*
*  This is the driver for displaying inside a window under BeOS,
*  used by the graphics utility of the FreeType test suite.
*
*  Written by Michael Pfeiffer.
*  Copyright (C) 2001-2023 by
*  Michael Pfeiffer
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```

```
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*
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/2148594610_1727706026.1938062/0/freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/graph/beos/grbeos.cpp
No license file was found, but licenses were detected in source scan.

```
/*
*  This is a cheap replacement for getopt() because that routine is not
*  available on some platforms and behaves differently on other platforms.
*
*  This code is hereby expressly placed in the public domain.
*  mleisher@crl.nmsu.edu (Mark Leisher)
*  10 October 1997
*/
```

Found in path(s):
* /opt/cola/permits/2148594610_1727706026.1938062/0/freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/src/mlgetopt.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************
*
*  grbatch.c  Batch processing driver.
*
*  This driver maintains the image in memory without displaying it,
*  used by the graphics utility of the FreeType test suite.
*
*  Copyright (C) 1999-2023 by
*  David Turner, Robert Wilhelm, and Werner Lemberg.
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*
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/2148594610_1727706026.1938062/0/freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/graph/batch/grbatch.c
No license file was found, but licenses were detected in source scan.

<p>License:

Found in path(s):
* /opt/cola/permits/2148594610_1727706026.1938062/0/freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/src/ftinspect/maingui.cpp
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/2148594610_1727706026.1938062/0/freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/graph/meson.build
* /opt/cola/permits/2148594610_1727706026.1938062/0/freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/meson_options.txt
* /opt/cola/permits/2148594610_1727706026.1938062/0/freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/meson.build
* /opt/cola/permits/2148594610_1727706026.1938062/0/freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/src/ftinspect/meson.build
No license file was found, but licenses were detected in source scan.

/*
* This is an OpenSSL-compatible implementation of the RSA Data Security, Inc.
* MD5 Message-Digest Algorithm (RFC 1321).
*
* Homepage:
* http://openwall.info/wiki/people/solar/software/public-domain-source-code/md5
*
* Author:
* Alexander Peslyak, better known as Solar Designer <solar at openwall.com>
*
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*
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*
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*
* See md5.c for more information.
*/

Found
 in path(s):
* /opt/cola/permits/2148594610_1727706026.1938062/0/freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/src/md5.h

No license file was found, but licenses were detected in source scan.

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**********/

Found in path(s):
* /opt/cola/permits/2148594610_1727706026.1938062/0/freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/mac/getargv.c
No license file was found, but licenses were detected in source scan.

/**********
*
* grmac.c graphics driver for MacOS platform.
*
* This is the driver for displaying inside a window under MacOS,
* used by the graphics utility of the FreeType test suite.
*
* Largely written by Just van Rossum, but derived from grwin32.c.
* Copyright (C) 1999-2023 by
* Just van Rossum, Antoine Leca,
* David Turner, Robert Wilhelm, and Werner Lemberg.
*
* Borrowing liberally from the other FreeType drivers.
*
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*
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/2148594610_1727706026.1938062/0/freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/graph/mac/grmac.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************
*
*  grx11.c  graphics driver for X11.
*
*  This is the driver for displaying inside a window under X11,
*  used by the graphics utility of the FreeType test suite.
*
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*
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/2148594610_1727706026.1938062/0/freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/graph/x11/grx11.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*
* rsvg-port.h
*
*   Librsvg based hook functions for OT-SVG rendering in FreeType
*   (headers).
*
* Copyright (C) 2022-2023 by
* David Turner, Robert Wilhelm, Werner Lemberg, and Moazin Khatti.
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```

```
* understand and accept it fully.
*
*/
```

Found in path(s):
* /opt/cola/permits/2148594610_1727706026.1938062/0/freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/src/rsvg-port.h
No license file was found, but licenses were detected in source scan.

```
/*
* This is an OpenSSL-compatible implementation of the RSA Data Security, Inc.
* MD5 Message-Digest Algorithm (RFC 1321).
*
* Homepage:
* http://openwall.info/wiki/people/solar/software/public-domain-source-code/md5
*
* Author:
* Alexander Peslyak, better known as Solar Designer <solar at openwall.com>
*
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*
* There's ABSOLUTELY NO WARRANTY, express or implied.
*
* (This is a heavily cut-down "BSD license".)
 *
* This differs from Colin Plumb's older public domain implementation in that
* no exactly 32-bit integer data type is required (any 32-bit or wider
* unsigned integer data type will do), there's no compile-time endianness
* configuration, and the function prototypes match OpenSSL's.  No code from
* Colin Plumb's implementation has been reused; this comment merely compares
* the properties of the two independent implementations.
*
* The primary goals of this implementation are portability and ease of use.
* It is meant to be fast, but not as fast as possible.  Some known
* optimizations are not included to reduce source code size and avoid
* compile-time configuration.
*/
```

Found in path(s):
* /opt/cola/permits/2148594610_1727706026.1938062/0/freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-

2.13.2/src/md5.c
No license file was found, but licenses were detected in source scan.

2023-08-25 Werner Lemberg <wl@gnu.org>

 * Version 2.13.2 released.
 ==========

 Tag sources with 'VER-2-13-2'.

 * README: Updated.
 * meson.build: Updated.
 * man/*.1: Updated.

2023-08-25 Werner Lemberg <wl@gnu.org>

 Fix clang warnings.

 * graph/gblblit.c (gblender_glyph_upgray), src/ftmulti.c (Render_All): Add
   cast.
 * src/ftdump.c (get_english_name_entry): Initialize `name`.

2023-08-24 Werner Lemberg <wl@gnu.org>

 * subprojects/*.wrap: Updated.

2023-08-17 Hugh McMaster <hugh.mcmaster@outlook.com>

 ftlint.1: Instruct man(1) to run the groff `tbl` preprocessor

 The latest version of groff (1.23.0) emits a warning when it detects the
 use of table macros (.TS, .TE) with no .TW (table width) macro defined:

   tbl preprocessor failed, or it or soelim was not run; table(s) likely
   not rendered (TE macro called with TW register undefined).

 The warning occurs because the `tbl` preprocessor
 was not invoked by
 the `man` command. To fix the issue, we need to instruct man(1) to
 run the `tbl` preprocessor before rendering the source as text.

 This issue was detected by Debian's Lintian tool.

2023-08-13 Hugh McMaster <hmc@debian.org>

 * src/ftmulti.c: Miscellaneous spelling and readability fixes.

  * Update comments.

```
  * Fix a typo: dimentions -> dimensions.

2023-08-06  Charlie Jiang  <w@chariri.moe>

 [ftinspect] Fix default named instance handling.

 Now the named instance selector no longer doubles the default named instance.
 `FT_Get_Default_Named_Instance` is used to get the default NI index.
 The default one is labeled as " (default)".

 * src/ftinspect/widgets/tripletselector.cpp: Properly handle the new 1-based
   named instance indices. Label the default NI correctly.

 * src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
   Add `Engine::defualtNamedInstanceIndex`.

 * src/ftinspect/engine/mmgx.cpp: Change comments.

2023-08-06  Charlie
 Jiang  <w@chariri.moe>

 [ftinspect] Fix named instances switching.

 * src/ftinspect/engine/mmgx.cpp, src/ftinspect/engine/mmgx.hpp:
   Load the default values of MMGX axes from the named instance instead of
   the global default one.

 * src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
   Switch the named instance using `FT_Set_Named_Instance` when loading
   fonts.

2023-07-28  Alexei Podtelezhnikov  <apodtele@gmail.com>

 * src/ftbench.c (usage): Document the `-a` option.

2023-07-26  Charlie Jiang  <w@chariri.moe>

 [ftinspect] Fix the glyph index selector layout when the window resizes.

 Fixes #26. When the window resizes, the invisible tabs don't get notified.
 Therefore, when the active tab changes, we need to trigger a manual
 relayouting of invisible tabs.

 * src/ftinspect/widgets/glyphindexselector.hpp,
   src/ftinspect/widgets/glyphindexselector.cpp:
   Extract public method `relayoutNavigation` from `resizeEvent`.

 * src/ftinspect/panels/abstracttab.hpp:
```

Add `relayout` virtual method.

* src/ftinspect/maingui.cpp: Call `AbstractTab::relayout` on the new tab
  when the active tab changes.

* src/ftinspect/panels/singular.cpp, src/ftinspect/panels/singular.hpp,
  src/ftinspect/panels/continuous.cpp, src/ftinspect/panels/continuous.hpp:
  Implement `relayout` method and call `relayoutNavigation` of the glyph
  index selector in `relayout`.

2023-07-26 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftdump.c (Print_MM_Info): Fix signedness mismatch.

2023-07-21 Jouk Jansen <joukj@hrem.nano.tudelft.nl>

* vms_make.com: Synchronize with similar changes in the FreeType library.

2023-07-16 Hin-Tak Leung <htl10@users.sourceforge.net>

src/rsvg-port.c: Correct usage of `FT_Bool` vs `gboolean` comparison.

`TRUE` in this context is from glib headers (`glib-2.0/glib/gmacros.h`),
imported indirectly from rsvg headers. It should not be used for comparison
with `FT_Bool` types. Other usages of `TRUE/FALSE` in this file is
okay.

2023-07-08 Hin-Tak Leung <htl10@users.sourceforge.net>

rsvg-port.c: Simplify usage of `rsvg_handle_render_*`.

* src/rsvg-port.c (rsvg_port_preset_slot): Remove usage of
`rsvg_handle_render_document` (and `rsvg_handle_render_cairo`). They are
functionally the same as `rsvg_handle_render_layer` (and
`rsvg_handle_render_cairo_sub`) with argument id set to NULL.

2023-07-08 Hin-Tak Leung <htl10@users.sourceforge.net>

* src/ttdebug.c (RunIns): Signature fix.

A somewhat similar change to what happened in the FreeType library:

  commit 95d635eab1b08a0051de07b6c33067d2c1984848
  Author: Werner Lemberg <wl@gnu.org>
  Date: Sun May 7 08:34:32 2023 +0200

      [truetype] Signature fixes.

2023-06-24 Werner Lemberg <wl@gnu.org>

* Version 2.13.1 released.
==========

Tag sources with 'VER-2-13-1'.

* README: Updated.
* meson.build: Updated.
* man/*.1: Updated.
* subprojects/zlib.wrap: Updated.

2023-06-24 Werner Lemberg <wl@gnu.org>

* src/rsvg-port.c
(rsvg_port_preset_slot): Fix C++ compilation warning.

2023-06-03 Hin-Tak Leung <htl10@users.sourceforge.net>

Fix out-of-memory conditions with newer 'librsvg'.

Excerpts from `rsvg_handle_get_intrinsic_dimensions` section in
`librsvg/rsvg.h`:

```
Before librsvg 2.54.0, the `out_has_width` and `out_has_height` arguments
would be set to true or false depending on whether the SVG document actually
had `width` and `height` attributes, respectively.

However, since librsvg 2.54.0, `width` and `height` are now [geometry
properties](https://www.w3.org/TR/SVG2/geometry.html) per the SVG2
specification; they are not plain attributes.  SVG2 made it so that the
initial value of those properties is `auto`, which is equivalent to
specifying a value of `100%`.  In this sense, even SVG documents which lack
`width` or `height` attributes semantically have to make them default to
`100%`.  This is why since librsvg 2.54.0, `out_has_width` and
`out_has_heigth` are always
returned as `TRUE`, since with SVG2 all
documents *have* a default width and height of `100%`.
```

* src/rsvg-port.c (rsvg_port_preset_slot): Adjust for change of behavior of
`rsvg_handle_get_intrinsic_dimensions` in librsvg 2.53+. We avoid
`LIBRSVG_CHECK_VERSION` as it is possible to build against one version but
run against another version.

2023-06-03 Hin-Tak Leung <htl10@users.sourceforge.net>

Fix 'librsvg' deprecation warnings.

* src/rsvg-port.c (rsvg_port_preset_slot): Use `rsvg_handle_render_document`
instead of `rsvg_handle_render_cairo`, and `rsvg_handle_render_layer`
instead of `rsvg_handle_render_cairo_sub`, as suggested by the warning,
conditionally on newer librsvg 2.52+.

2023-05-22 Werner Lemberg <wl@gnu.org>

man/ftview.1: Improve documentation of option `-l`.

2023-05-19 Seigo Nonaka <nona@google.com>

* src/ftmulti.c (main): Make program actually handle option `-a`.

2023-05-19 Seigo Nonaka <nona@google.com>

[ftbench] New option `-a` to apply
design coordinates.

The performance of MM fonts is quite different in comparison to static
fonts. To be able to get benchmarks for the former, add a new command-line
option to pass design coordinates.

* src/ftbench.c: Include `ftmm.h`.
(MAX_MM_AXES): New macro.
(multimaster, design_pos, requested_pos, requested_cnt, used_num_axes): New
global variables.
(get_face): Load MM data if requested.
(parse_design_coords): New function.

* man/ftbench.1: Updated.

2023-05-15 Werner Lemberg <wl@gnu.org>

[ftview] New key 'Z' to flip SVG rendering.

* src/ftcommon.h (FTDemo_Handle): New field `use_svg`.
* src/ftcommon.c (FTDemo_New, FTDemo_Update_Current_Flags): Handle it.

* src/ftview.c (Process_Event): Make key 'Z' toggle SVG usage.
(event_help, write_header): Updated.

2023-05-14 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftbench] Set up cache earlier.

* src/ftbench.c (main): Run `FTC_Manager_New` and `FTC_*Cache_New`

earlier and decide the test availability accordingly.
(test_*_cache,benchmark):
Do not check if cache is set.

2023-05-12 Alexei Podtelezhnikov <apodtele@gmail.com>

*src/ftbench.c (test_stroke): Test outline glyphs only.

2023-05-12 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftbench.c (main): Assure cache setup, clean exit.

2023-05-12 Ben Wagner <bungeman@chromium.org>

Correct type of icon_span

The `icon_span` is used as a `FT_SpanFunc`. To avoid undefined behavior and a CFI sanitizer report, this function needs to called through a pointer of the same type. Fix this by making `icon_span` take the right parameter types and cast the argument in the function body.

* src/ftcommon.c (icon_span): take correct parameters and cast in function body. (FTDemo_Icon): remove cast

2023-05-12 Ben Wagner <bungeman@chromium.org>

[graph] Correct function pointer types

Building the demos with the CFI sanitizer detects a number of uses of undefined behavior in the Minimalist Graphics Subsystem where an indirect function
call is made through a pointer of a different type.
All of these cases worked in practice since the differing argument types were the same size and would have the same pointer value at runtime.

Change the functions to take the correct types and downcast inside the function.

* graph/beos/grbeos.cpp: remove casts

* graph/mac/grmac.c: correct return type of `listen_event`, remove casts

* graph/os2/gros2pm.c: correct function signatures, downcast inside functions, remove function pointer casts

* graph/win32/grwin32.c: ditto

* graph/x11/grx11.c: ditto

2023-05-12 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftbench] Use proper `face_requester`.

It is wrong to forfeit the face ownership to the cache manager. Fixes #29.

* src/ftbench.c (face_requester): Call `get face`.
(main): Never pass `face` to the cache manager.

2023-05-10 Werner Lemberg <wl@gnu.org>

subprojects/*.wrap: Updated.

2023-05-09 Jouk Jansen <joukj@hrem.nano.tudelft.nl>

vms_make.com:
Correctly handle 'libbz2'.

2023-05-08 Werner Lemberg <wl@gnu.org>

* src/ftdump.c (Print_Sfnt_Tables): Insert spaces between bytes.

2023-05-08 Werner Lemberg <wl@gnu.org>

[ftdump] Show more variation font info.

* src/ftdump.c (Print_MM_Axes): Rename to...
(Print_MM_Info): ...this.
Show Variation Font PostScript name prefix.
Show named instances.

2023-05-08 Werner Lemberg <wl@gnu.org>

[ftdump] Code cleanup.

* src/ftdump.c (Print_MM_Axes): Move code to find an English name entry
to...
(get_english_name_entry): ... this new function.

2023-05-08 Werner Lemberg <wl@gnu.org>

* src/output.c: Handle `\0` specially.

Broken or intentionally invalidated fonts might contain NULL bytes at
arbitrary places.

2023-05-05 suzuki toshiya <mpsuzuki@hiroshima-u.ac.jp>

[ftdump] Print CID-keyed font properties if available.

* src/ftdump.c

(FT_CID_MAX): New macro.

(usage): Mention the CID coverage in `-c' and `-C'
options.

(Print_UInt_Range): New function to print
2 numbers
with a separator if needed.

(Print_CIDs): New function to print the implemented
CIDs in a compressed syntax. If a case
`gid_N < gid_M && CID_N > CID_M' is found, ftdump
aborts and guide the user to file the issue.

(Print_ROS_From_Face): New function to print the
Registry, Ordering, and Supplement of the CID-keyed
fonts, if available. If `-c' or `-C' option is
given, Print_CIDs() is invoked.

(main): Invoke Print_ROS_From_Face().

2023-04-24 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftgrid.c (grid_status_rescale): Use PPEM-based scaling.

The zoom becomes well defined for the given size but the ascender and
descender lines might be offside.

2023-04-23 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftview.c (Render_{All,Fancy,Stroke}): Improve zero-width glyphs.

2023-04-23 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftview.c (Render_{All,Fancy,Stroke}): Tweak zero-width glyphs.

This helps to avoid collisions and unhides zero-width
glyphs better.

2023-04-21 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftview] Use green empty boxes instead.

```
* src/ftview.c (status): Store green color.
(main): Initialize it.
(Render_*): Use it.

2023-04-21  Alexei Podtelezhnikov  <apodtele@gmail.com>

* src/ftview.c (main): Remove unnecessary code.

2023-03-27  Alexei Podtelezhnikov  <apodtele@gmail.com>

* src/ftlint.c (main): Handle rendering errors differently.

2023-03-27  Alexei Podtelezhnikov  <apodtele@gmail.com>

* src/ftlint.c (main): Fix segfault with bad command line.

2023-03-26  Alexei Podtelezhnikov  <apodtele@gmail.com>

[ftlint] Examine the outline shape complexity.

Measured as a ratio of the outline half-perimeter to the sum of its
control box dimensions, the shape complexity is a useful metric.
For example, an `I` and an `M` would have complexities of about
1.0 and 2.0, respectively.

* src/ftlint.c (Examine): Implement the shape complexity calculation.
(main) Report the shape complexity.
* man/ftlint.1:
Add a brief explanation.

2023-03-15  Charlie Jiang  <w@chariri.moe>

[ftinspect] Support gray level scaling.

See commit 746d5be5: Convert to 256 grays. Slightly tweaked code style.

* src/ftinspect/engine/rendering.cpp (RenderingEngine::convertBitmapTo8Bpp):
Implement it.

2023-03-10  Jouk Jansen  <joukj@hrem.nano.tudelft.nl>

Update VMS installation support.

2023-03-03  Charlie Jiang  <w@chariri.moe>

[ftinspect] Fix uninitialized memory issue and reference misuse.
```

Fixes issue #23.

* src/ftinspect/engine/rendering.cpp (RenderingEngine::convertBitmapTo8Bpp):
Properly initialize `FT_Bitmap` since it is a value type.
(RenderingEngine::convertBitmapToQImage): Fix the accidental overwriting of
the source bitmap when converting the bitmap format (only happens for
`FT_PIXEL_MODE_GRAY2` and `FT_PIXEL_MODE_GRAY4`) due to a misuse of a C++
reference.

* src/ftinspect/glyphcomponents/glyphcontinuous.cpp
(GlyphContinuous::drawCacheGlyph): Fix a crash when the `QImage`
was failed
to produce.

2023-03-02 Werner Lemberg <wl@gnu.org>

* graph/gblblit.c: Include `<stdlib.h>`.

This is for the `abs` function.

2023-03-02 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Handle glyphs with 4 or 16 grays.

* graph/gblblit.c (gblender_glyph_upgray): Convert to 256 grays.
(gblender_blit_init): Call it if necessary.

2023-02-27 Werner Lemberg <wl@gnu.org>

TrueType mode v38 is gone.

Synchronize with FreeType commit 'Hide Infinality.' from 2023-Feb-17.

Both macros `TT_INTERPRETER_VERSION_38` and `TT_INTERPRETER_VERSION_40` have
now the same value, leading to numerous compilation errors because we use
these two macros as (different) case labels in switch statements.

* src/ftbench.c (tt_interpreter_versions, header, usage, main): Don't use
`TT_INTERPRETER_VERSION_38`.
* src/ftcommon.c (FTDemo_Hinting_Engine_Change, FTDemo_Get_Info): Ditto.
* src/ftdiff.c (ColumnStateRec, render_state_init, render_state_draw):
Ditto.
* src/ftmulti.c
(tt_interpreter_versions, main): Ditto.
* src/ttdebug.c (tt_interpreter_versions, Usage, main): Ditto.

* src/ftinspect/engine/engine.hpp (EngineDefaultValues): Ditto.
* src/ftinspect/engine/engine.cpp (Engine::queryEngine): Ditto.

* src/ftinspect/models/customcomboboxmodels.hpp (HintingModeComboBoxModel):
Ditto.
* src/ftinspect/models/customcomboboxmodels.cpp
(HintingModeComboBoxModel::HintingModeComboBoxModel): Ditto.
* src/ftinspect/panels/settingpanel.cpp (SettingPanel::setDefaults): Ditto.

2023-02-13 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftmulti.c: Clean up loading and scaling.

2023-02-13 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftmulti.c (main, Init_Display): Clean up GUI setup.

2023-02-13 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftmulti.c: Clean up and fix MSVC warnings.

2023-02-13 Alexei Podtelezhnikov <apodtele@gmail.com>

* man/ftmulti.1: Updated.

2023-02-12 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftmulti] Enable
fill rule flag testing.

Variation fonts often relay on overlapping contours. To reveal them,
we enable turning the even-odd fill rule on and off. This flag is
always off in FreeType by default but supported by the anti-aliased
renderer.

* src/ftmulti.c (Process_Event): Reassign F3 to fill rule toggle,
assign Tab to anti-aliasing toggle.
(Render_Glyph): Tinker with the fill rule flags before rendering.

2023-02-12 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftmulti.c: Clean up and fix warnings.

2023-02-12 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftmulti.c (Process_Event): Miscellaneous tweaks.

Set default step at 1/40 which covers most preferable coordinates.
Adjust the step by doubling or halving it. Round all large-range
coordinates, not just MM. Wrap the coordinates around.

2023-02-12 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftmulti.c (Render_All, Render_Text, main): Layout tweaks.

2023-02-12 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftmulti]
Enable overlap flag testing.

Variation fonts often relay on overlapping contours, which require
oversampling to render properly. FreeType relies on FT_OUTLINE_OVERLAP
to trigger the expensive mitigation algorithm. This commit enables
tinkering with the overlap flags and, therefore, the oversampling.
Normally, the flags should be set by the font designers sparingly.

The bitmap strike toggle is no longer available, which has never
been important for the variation font testing.

* src/ftmulti.c (Process_Event): Reassign F4 to overlap toggle.
(Render_Glyph): Tinker with the overlap flags before rendering.

2023-02-11 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftmulti.c (Init_Display): Use automatic color depth.

2023-02-11 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftmulti.c (main): Synchronize options with the others.

2023-02-09 Werner Lemberg <wl@gnu.org>

* Version 2.13.0 released.
==========

Tag sources with 'VER-2-13-0'.

*
README: Updated.
* meson.build: Updated.
* man/*.1: Updated.

2023-02-09 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/win32/grwin32.c (Message_Process): Drop some sizing messages.

With the window procedure in a separate thread we only need to forward
basic WM_SIZE, which is sent frequently enough.

2023-02-08 Werner Lemberg <wl@gnu.org>

Fix various minor compiler warnings.

2023-02-08 Werner Lemberg <wl@gnu.org>

[ftgrid] Synchronize with FreeType git.

The changes are necessary due to the commit

```
Avoid reserved identifiers that are globally defined.
```

2023-02-08 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftmulti.c (Render_All): Tighten right margin.

2023-02-07 Alexei Podtelezhnikov <apodtele@gmail.com>

[builds/windows] Add ftmulti.

* builds/windows/msvc/ftmulti.vcxproj: New project.
* builds/windows/msvc/ft2demos.sln: Add it to solutions.

2023-02-07 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph/win32] Minor driver improvements.

* graph/win32/grwin32.c: (gr_win32_device_init): Do not set icon or background, which is covered anyway.
(Message_Process) [WM_PAINT]: Paint only updated rectangle.

2023-02-06 Werner Lemberg <wl@gnu.org>

* src/ftmulti.c (Process_Event): Simplify.

2023-02-06 Werner Lemberg <wl@gnu.org>

[ftmulti] More key reassignments.

This is a try to better harmonize with other demo programs, and to make the selection of axes more mnemonic.

* src/ftmulti.c (MAX_MM_AXES): Set to 16.
(Process_Event): Use keys 'aA' for axis 0, 'bB' for axis 1, ..., 'pP' for axis 16.

Use F1 for help, too.
Use 16, 256, and 4096 as the glyph index increments.
Also adjust other keys to avoid collisions.
(Help): Updated.
(main): Show mnemonic letter next to axis.
Updated.

2023-02-05 Werner Lemberg <wl@gnu.org>

[ftmulti] Display up to 15 axes.

Due to the support of the 'avar' version 2 OpenType extension it is expected
that the number of axes in many fonts will increase because adding
'virtual
axes' is cheap now.

* src/ftmulti.c (MAX_MM_AXES): Set to 15.
(Help): Updated.
(Process_Event): Handle keys '7890-=' for axes 6-8, '!@#$%^' for axes 9-11,
and '&*()_+' for axes 12-14.

2023-02-05 Werner Lemberg <wl@gnu.org>

[ftmulti] Change layout to list axes vertically.

* src/ftmulti.c (Render_All, Render_Text): Shift 'upper left corner' for
glyph display up and to the right.
(main): Emit one axis per line at the left side of the screen.

2023-02-05 Werner Lemberg <wl@gnu.org>

* graph/grevents.h (grKey): Add `grKeyHash` and `grKeyAmpersand`.

2023-02-04 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftcommon.c (my_face_requester): Recognize t1 file extension.

2023-02-04 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/win32/grwin32.c (Message_Process): Return TRUE on WM_SIZING.

2023-02-02 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph/win32] Improve error handling.

* graph/win32/grwin32.c (gr_win32_surface_resize): Change return type.
(gr_win32_surface_init):

Ditto and handle failure gracefully.

2023-02-01 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftstring.c (write_header): Change layout.

2023-01-30 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftlint.c (Analyze): Report void bitmaps.

2023-01-30 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftstring] Reduce floating point use.

* src/ftcommon.c (FTDemo_String_Load): Use signed integers, not doubles.
* src/ftstring.c (event_angle_change): Minor.

2023-01-30 Werner Lemberg <wl@gnu.org>

* subprojects/libpng.wrap: Updated.

2023-01-29 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftstring.c (write_header): Always report kerning info.

2023-01-28 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftstring] New feature: simple string editor.

It only handles printable ASCII characters and backspace to erase them.

* src/ftstring.c (Process_Event): Use Enter key to initiate this mode.
(Process_TTY): Intercept and handle relevant keys
while editing.
(Render_TTY): Special rendering mode while editing.
(main, event_help): Updated.

2023-01-28 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftstring.c (event_render_mode_change): Remove report.

2023-01-28 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/win32/grwin32.c (key_translators): Sort virtual-key codes.

2023-01-27 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftstring.c (Render_Waterfall): Avoid bitmap reloading.

This hides horrible performance of compressed PCF fonts.

2023-01-25 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftview.c (Render_Waterfall): Fill the right margin.

The waterfall looks better if the string runs over the edge.

2023-01-25 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftgrid,ftstring,ftview] Option to select charmap by index.

* src/ftcommon.c (FTDemo_Install_Font): Accept a charmap index.
(FTDemo_Make_Encoding_Tag): Fall back on a numeric value to return.

* src/ftgrid.c, src/ftstring.c, src/ftview.c
(usage): Updated.
* man/ftgrid.1, man/ftstring.1, man/ftview.1: Ditto.

2023-01-24 Alexei Podtelezhnikov <apodtele@gmail.com>

Typos.

2023-01-23 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftlint.c (Usage): Output to stderr, like others do.

2023-01-22 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftbench,ftgrid,ftmulti,ftview] Accept hexadecimal glyph indices.

This helps to use charcodes on the command line.

* src/ftbench.c (main): Use sscanf with "%i".
* src/ftgrid.c (parse_cmdline): Ditto.
* src/ftmulti.c (main): Ditto.
* src/ftview.c (parse_cmdline): Ditto.

2023-01-21 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/win32/grwin32.c (gr_win32_surface_init): Polish gray mode.

2023-01-21 Alexei Podtelezhnikov <apodtele@gmail.com>

Edit comments.

2023-01-20 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Explain the blender cache.

2023-01-18 Alexei Podtelezhnikov <apodtele@gmail.com>

Typos.

2023-01-17 Werner Lemberg <wl@gnu.org>

Update
all copyright notices.

2023-01-17 Werner Lemberg <wl@gnu.org>

* src/ftinspect/*.[ch]pp: Normalize copyright notices

This allows the use of FreeType's `update-copyright-year` script.

2023-01-17 Werner Lemberg <wl@gnu.org>

Minor comment typos.

2023-01-16 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftview.c (Process_Event): Fix -Wswitch warning.

2023-01-14 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftview] Microoptimization.

* src/ftview.c (parse_cmdline, write_header, Process_Event, parse):
Prioritize easy checks.

2023-01-14 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftview.c (Process_Event): Trigger screen updates locally.
(main, status): Cleaned up.

2023-01-14 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftview.c (Process_Event): Minor refactoring.

2023-01-13 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftview.c (Process_Event): Small harmonization.

2023-01-12 Alexei Podtelezhnikov <apodtele@gmail.com>

Typos.

2023-01-11
Alexei Podtelezhnikov <apodtele@gmail.com>

Minor comment.

2023-01-11 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftcommon.c (FTDemo_Draw_Header): Minor.

2023-01-11 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/*.c: Pair up `grRefreshSurface` and `grListenSurface` calls.

2023-01-10 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftstring.c (main, write_header): Reset custom header differently.

2023-01-10 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftstring] Fix error reporting.

* src/ftstring.c (Render_*): Do not return or overwrite errors.
(main): Updated accordingly.

2023-01-09 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftview.c: Remove obsolete comments.

2023-01-09 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftcommon.c (FTDemo_Draw_Header): Show sizing errors again.

2023-01-08 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftview, ftstring] Prevent locking on broken unsizable fonts.

* src/ftstring.c (Render_Waterfall):
Break on error.
* src/ftview.c (Render_Waterfall): Break on error.

2023-01-06 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftview.c: Fix a warning.

2023-01-05 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftlint.c (main): Decorate opening and sizing errors.

2023-01-03 Werner Lemberg <wl@gnu.org>

* src/ftcommon.c (FTDemo_Draw_Header): Handle invalid `size` objects.

2022-12-07 Werner Lemberg <wl@gnu.org>

* subprojects/zlib.wrap: Micro-update from upstream.

2022-12-01 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftbench.c (main): Sync the render mode and the load target.

2022-11-30 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftbench.c (main): Honor render mode with FT_LOAD_RENDER.

2022-11-14 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftbench.c: Relocate and undo BBox rotations.

2022-11-13 Alexei Podtelezhnikov <apodtele@gmail.com>

* man/ftbench.1: Minor updates.

2022-11-11 Alexei Podtelezhnikov <apodtele@gmail.com>

*
src/ftbench.c (test_get_bbox): Use `FT_Set_Transform`.

2022-11-11 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftbench] Fix up charmap benchmarking.

* src/ftbench.c (main): Parse and process the charmap index option.
(header): Report the active charmap index.
(usage): Document it.
(test_cmap_cache): Call `FTC_CMapCache_Lookup` with correct argument.
(test_cmap_iter): Do not count idle charmaps.

* man/ftbench.1: Document the charmap selection.

2022-10-25 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftview] Improve error tracking.

* src/ftcommon.c (FTDemo_Error_String): Spin off new function from...

(PanicZ): ... this function.
* src/ftcommon.h (FTDemo_Error_String): Declare it.
* src/ftview.c (Process_Error): Count and track persistent errors.
(Render_*): Use it.
(main): Report the persistent error code and description.

2022-10-25 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftview.c (Render_Stroke): Render bitmaps without stroking.

2022-10-24 Werner Lemberg
<wl@gnu.org>

Replace '1/50th' (and similar entries) with '1/64' in output and comments.

2022-10-20 Werner Lemberg <wl@gnu.org>

* subprojects/zlib.wrap: Update to zlib version 1.2.13.

2022-10-08 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/x11/grx11.c (gr_x11_surface_{init,done}): Use DefaultGC.

2022-10-07 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/x11/grx11.c (gr_x11_surface_init): Ignore border and colormap.

The colormap is unused. The border is set by a window manager.

2022-10-03 Charlie Jiang <w@chariri.moe>

[ftinspect] Change unclear comments.

* src/ftinspect/engine/fontinfo.hpp,
src/ftinspect/glyphcomponents/glyphcontinuous.cpp: Clearify comments.

* src/ftinspect/maingui.cpp: Actually the left widget does more than
setting the margin, so the comment line about removing the left widget and
layout is removed.

2022-10-03 Charlie Jiang <w@chariri.moe>

* src/ftinspect/engine/engine.cpp: Fix CBDT/CBLC colored fonts.

Add
`FT_LOAD_COLOR` for those fonts.

2022-10-03 Werner Lemberg <wl@gnu.org>

[ftinspect] Format `src/ftinspect/*`.

2022-10-03 Werner Lemberg <wl@gnu.org>

[ftinspect] Format `src/ftinspect/widgets/*`.

2022-10-03 Werner Lemberg <wl@gnu.org>

[ftinspect] Format `src/ftinspect/panels/*`.

2022-10-03 Werner Lemberg <wl@gnu.org>

[ftinspect] Format `src/ftinspect/models/*`.

2022-10-03 Werner Lemberg <wl@gnu.org>

[ftinspect] Format `src/ftinspect/glyphcomponents/*`.

2022-10-03 Werner Lemberg <wl@gnu.org>

[ftinspect] Format `src/ftinspect/engine/*`.

2022-10-02 Werner Lemberg <wl@gnu.org>

[ftinspect] Format build files for cmake and meson.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Do it.
Also sort entries.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Activate the color layers by default.

Don't deactivate it when color layers are absent. Also fix typo.

* src/ftinspect/panels/settingpanel.cpp: Updated.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect]
Fix memory-related crash, and refactor outline-retaining...

graphics items. Also fix some compiler warnings.

* src/ftinspect/glyphcomponents/glyphoutline.cpp,
  src/ftinspect/glyphcomponents/glyphoutline.hpp:
  Don't retain the `FT_Outline*` whose lifetime is bound to the glyph.

Prepare the path in the ctor so the outline isn't saved.
Add `GlyphUsingOutline` as the base class for all classes that have to
retain a `FT_Outline` object.

* src/ftinspect/glyphcomponents/glyphpointnumbers.cpp,
src/ftinspect/glyphcomponents/glyphpointnumbers.hpp,
src/ftinspect/glyphcomponents/glyphpoints.cpp,
src/ftinspect/glyphcomponents/glyphpoints.hpp: Refactored.

* src/ftinspect/engine/engine.hpp, src/ftinspect/panels/singular.hpp,
src/ftinspect/engine/rendering.hpp
Add default values to initialize member fields.

* src/ftinspect/panels/singular.cpp:
Pass the `FT_Library` into the graphics items.

* src/ftinspect/models/fontinfomodels.cpp:
Fix warning.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Add transformation and scaling info to the composite glyph view.

Note: Untested since no font with non-1.0 scale subglyphs is found.

* src/ftinspect/engine/fontinfo.cpp, src/ftinspect/engine/fontinfo.hpp:
Fetch transformation and scaling info from the font.

* src/ftinspect/models/fontinfomodels.cpp,
src/ftinspect/models/fontinfomodels.hpp:
Change the "Position" column to "Position and Transformation".
Display the transformation info.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Improve bitmap display in the glyph details pane.

Now the ppem square is displayed as light gray, ink box as blue,
xy-axis as thin black lines.
Adding ppem square improves displaying of non-spacing glyphs.

* src/ftinspect/panels/glyphdetails.cpp:
Pass the ppem box to the `GlyphBitmap` widget.

* src/ftinspect/glyphcomponents/glyphbitmap.cpp,
src/ftinspect/glyphcomponents/glyphbitmap.hpp:
Add a `placeholderRect`

to store the ppem square info. Layout the glyph
bitmap on the basis of the ppem square.
Draw auxiliary lines on the canvas.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Modify the about text and add actual version.

* src/ftinspect/maingui.cpp: As described.

* src/ftinspect/ftinspect.cpp: Pass the actual version.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
Add `dynamicLibraryVersion` func.

2022-09-25 Charlie Jiang <w@chariri.moe>

* src/ftinspect/engine/engine.cpp: Minor formatting.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Fix random crash when closing fonts.

* src/ftinspect/widgets/tripletselector.cpp: Disallow font indices below 0.
It seems the CFF driver can't handle this properly.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Add "Font Info" tab.

* src/ftinspect/panels/info.cpp, src/ftinspect/panels/info.hpp:
New files, add the `InfoTab` class.

* src/ftinspect/engine/fontinfo.cpp,
src/ftinspect/engine/fontinfo.hpp:
Add `SFNTTableInfo`, `FontBasicInfo`, `FontTypeEntries`, `FontFixedSize`
and `CompositeGlyphInfo`. The `SFNTTableInfo` and `CompositeGlyphInfo`
classes retrieve info without the related FreeType API, but directly
parse the font data.

* src/ftinspect/models/fontinfomodels.cpp,
src/ftinspect/models/fontinfomodels.hpp:
New files. Add models for the tables and the tree view in the info tab to
use.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
Add `loadDefaults` function for the composite glyphs view to draw its
small icon.

Add `currentFontHasGlyphName`, `currentFontPSInfo`,
`currentFontPSPrivateInfo` and `currentFontSFNTTableInfo` to obtain info.
Add getters.

* src/ftinspect/engine/fontinfonamesmapping.cpp: New file for name mapping.

* src/ftinspect/engine/fontfilemanager.cpp,
src/ftinspect/engine/fontfilemanager.hpp:
Add `currentReloadDueToPeriodicUpdate` so the composite glyph
tree isn't
refreshed (which is a very expensive process) for the periodic updating of
symbolic font files.

* src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp:
Add the font info tab info the main window and wire events.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Updated.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Add "Comparator View".

* src/ftinspect/panels/comparator.cpp, src/ftinspect/panels/comparator.hpp:
New files, adding the `ComparatorTab`.

* src/ftinspect/panels/settingpanel.cpp,
src/ftinspect/panels/settingpanel.hpp: Add comparator mode.

* src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp:
Add comparator tab and modify `switchTab` to prevent unwanted window
resizing, and to fix the tab bar position.
Modify `applySettings` to skip applying for comparator tab.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Updated.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Add left/right click
behaviour to the continuous view.

Left clicking will open the glyph details pane, and right clicking will
switch to the singular tab.

* src/ftinspect/panels/glyphdetails.cpp,
src/ftinspect/panels/glyphdetails.hpp:
New files, add the `GlyphDetails` class.

* src/ftinspect/glyphcomponents/glyphcontinuous.cpp,

src/ftinspect/glyphcomponents/glyphcontinuous.hpp:
Add `mouseReleaseEvent` event handler which emits the new
`updateGlyphDetails` and `rightClickGlyph` signals.

* src/ftinspect/glyphcomponents/glyphbitmap.cpp,
src/ftinspect/glyphcomponents/glyphbitmap.hpp:
Add `GlyphBitmapWidget` to show the enlarged bitmap.

* src/ftinspect/panels/continuous.cpp, src/ftinspect/panels/continuous.hpp:
Add code to update the details panel, and wire up events.

* src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp:
Add code to initialize the glyph details panel, and wire up components and
events.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Updated.

2022-09-25
Charlie Jiang <w@chariri.moe>

[ftinspect] Add "Continuous View".

Most new features in the continuous view are included in the commit, except
the mouse left (details pane)/right (go to singular) click behaviour.

* src/ftinspect/panels/continuous.cpp, src/ftinspect/panels/continuous.hpp:
New files, the main continuous tab.

* src/ftinspect/glyphcomponents/glyphcontinuous.cpp,
src/ftinspect/glyphcomponents/glyphcontinuous.hpp:
New files, adding the `GlyphContinuous` as the actual canvas for
continuous rendering.

* src/ftinspect/engine/stringrenderer.cpp,
src/ftinspect/engine/stringrenderer.hpp:
New files, adding `StringRenderer` to layout the strings and produce
glyphs for the canvas to draw.

* src/ftinspect/widgets/charmapcombobox.cpp,
src/ftinspect/widgets/charmapcombobox.hpp:
New files, add the `CharMapComboBox` widget.

* src/ftinspect/engine/charmap.cppsrc/ftinspect/engine/charmap.hpp:
New files, adding `CharMapInfo` class.

*
src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
Add necessary fields and getters for string rendering.

Retrieve charmap when loading fonts.

* src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp:
  Add the continuous view to the main window.
  Call `ContinuousTab::highlightGlyph` when switching from singular to
  continuous view.

* src/ftinspect/panels/settingpanel.cpp: Uncomment functional code.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Updated.

2022-09-25 Charlie Jiang <w@chariri.moe>

This is a combination of 2 commits.
This is the 1st commit message:

[ftinspect] Add "Continuous View".

Most new features in the continuous view are included in the commit, except
the mouse left (details pane)/right (go to singular) click behaviour.

* src/ftinspect/panels/continuous.cpp, src/ftinspect/panels/continuous.hpp:
  New files, the main continuous tab.

* src/ftinspect/glyphcomponents/glyphcontinuous.cpp,
  src/ftinspect/glyphcomponents/glyphcontinuous.hpp:

  New files, adding the `GlyphContinuous` as the actual canvas for
  continuous rendering.

* src/ftinspect/engine/stringrenderer.cpp,
  src/ftinspect/engine/stringrenderer.hpp:
  New files, adding `StringRenderer` to layout the strings and produce
  glyphs for the canvas to draw.

* src/ftinspect/widgets/charmapcombobox.cpp,
  src/ftinspect/widgets/charmapcombobox.hpp:
  New files, add the `CharMapComboBox` widget.

* src/ftinspect/engine/charmap.cppsrc/ftinspect/engine/charmap.hpp:
  New files, adding `CharMapInfo` class.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
  Add necessary fields and getters for string rendering.
  Retrieve charmap when loading fonts.

* src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp:
  Add the continuous view to the main window.

Call `ContinuousTab::highlightGlyph` when switching from singular to
continuous view.

* src/ftinspect/panels/settingpanel.cpp: Uncomment
functional code.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Updated.

This is the commit message #2:

* src/ftinspect/engine/stringrenderer.cpp: Fix infinite loop.

Don't limit the glyph position and exit too early, or the loop in `render`
function won't stop forever. Also, since the string can be moved by the
mouse, there's no point to limit the line position in the canvas viewport.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Add SFNT `name` table retrieving.

* src/ftinspect/engine/fontinfo.cpp, src/ftinspect/engine/fontinfo.hpp:
New files, add `SFNTName` to retrieve `name` table.
Conversions to `QString` from mainstream encodings are supported.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
Add `currentFontSFNTNames` and retrieve the `name` table when loading the
font. Also pass the SFNT name table when loading palettes.

* src/ftinspect/engine/mmgx.cpp, src/ftinspect/engine/paletteinfo.cpp:
Uncomment functional
code to make use of the `name` table.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Updated.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Support MM/GX.

* src/ftinspect/panels/settingpanelmmgx.cpp,
src/ftinspect/panels/settingpanelmmgx.hpp:
Add GUI widgets for MM/GX settings.

* src/ftinspect/engine/mmgx.cpp, src/ftinspect/engine/mmgx.hpp:
Add `MMGXAxisInfo` to retrieve axes info. However, the SFNT name table
isn't implemented, so the SFNT based axis names are unavailable.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
Add `applyMMGXDesignCoords`. Add getters `currentFontMMGXState` and

`currentFontMMGXAxes`. Info is retrieved when loading font.

* src/ftinspect/panels/settingpanel.cpp,
  src/ftinspect/panels/settingpanel.hpp: Uncomment functional code.
  Remove `checkHintingMode` and `checkStemDarkening`. Applying of delayed
  settings is taken care by the `MainGUI`. So emitting `fontReloadNeeded`

simply will do the work.

* src/ftinspect/maingui.cpp: Don't reset the cache so aggressively.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Updated.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Add auxiliary lines for the grid view.

The aux lines will show advance and asc/descender.

* src/ftinspect/glyphcomponents/grid.cpp,
  src/ftinspect/glyphcomponents/grid.hpp: Implement aux lines.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
  Add `currentSizeAscDescPx`.

* src/ftinspect/panels/singular.cpp, src/ftinspect/panels/singular.hpp:
  Pass parameters to the `Grid` graphics item.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Support opening files drag-dropping.

* src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp: Add related code.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Support opening files via command-line.

* src/ftinspect/engine/fontfilemanager.cpp,
  src/ftinspect/engine/fontfilemanager.hpp:

  Add `loadFromCommandLine` func.

* src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp:
  Add and call `loadCommandLine` func.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Support LCD rendering.

* src/ftinspect/engine/rendering.cpp, src/ftinspect/engine/rendering.hpp:
  Implement `convertLCDToARGB` and `convertLCDVToARGB`.
  Add `lcdUsesBGR` property.

* src/ftinspect/panels/settingpanel.cpp: Uncomment functional code.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Support color layers.

* src/ftinspect/engine/rendering.cpp:
  Add implementation of `tryDirectRenderColorLayers`.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
  Implement `loadPaletteInfos` and `loadPalette`.
  Add `currentFontHasColorLayers` and a group of getters/setters supporting
  color layer rendering.
  Also reorder fields as the number of fields grows.

* src/ftinspect/panels/settingpanel.cpp,
  src/ftinspect/panels/settingpanel.hpp:
  Implement
`populatePalettes` and reorder functions.
  Fix `checkPalette` about combo box enabling state and reset the cache when
  the palette settings change.
  Uncomment functional code.

* src/ftinspect/engine/paletteinfo.cpp,
  src/ftinspect/engine/paletteinfo.hpp: New files adding `PaletteInfo`.
  Retrieving palette names using SFNT name tables is not supported yet.

* src/ftinspect/panels/singular.cpp:
  Call `Engine::loadPalette` when drawing.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Updated.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Support stem darkening.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
  Add `setStemDarkening` func.

* src/ftinspect/panels/settingpanel.cpp: Uncomment function code.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Support tricky fonts.

For tricky fonts, we disable auto-hinter and limit the TT interpreter
version.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:

  Add `currentFontTricky` function and turn off hinting forcibly when the
  user turns it off in the GUI for tricky fonts.

* src/ftinspect/panels/settingpanel.cpp: As described.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Support embedded bitmap and bitmap-only fonts.

Bitmap glyphs are already supported in the new rendering engine, so we make
the option effective in the GUI. Also support bitmap-only fonts by coercing
sizes to available ones and force embedded bitmaps.

* src/ftinspect/widgets/fontsizeselector.cpp,
  src/ftinspect/widgets/fontsizeselector.hpp:
  Retrieve fixed sizes info from the engine and coerce to nearest available
  sizes when using bitmap-only fonts.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
  Add `embeddedBitmapEnabled` property and `currentFontHasEmbeddedBitmap`,
  `currentFontBitmapOnly` and `currentFontFixedSizes` getters.

* src/ftinspect/panels/settingpanel.cpp: Uncomment functional code.

2022-09-25
  Charlie Jiang <w@chariri.moe>

[ftinspect] Refactor `Engine` and fix the singular tab.

This comment brings the new glyph loading and bitmap rendering code.
The bitmap rendering part is in `RenderingEngine` which can be obtained
from the `Engine`. The `Engine` now supports loading the glyph by loading
with image cache and without image cache.
The `loadOutline` function is removed.

Accompanying this change, some new features are introduced as well. Most
notable the improvements in rendering: back/foreground color and gamma,
support bitmap glyphs (not enabled in the UI). Support for LCD and color
layer font is absent yet.

The singular tab is now enabled by uncommented functional code that was commented in the last commit.

In `Engine`, a `ftFallbackFace_` is introduced for all non-rendering work, and the old `ftSize_` is only used for rendering. This helps dealing with non-scalable fonts since we can safely retrieve info with the fallback face.

* src/ftinspect/engine/engine.cpp,
src/ftinspect/engine/engine.hpp:
  Integrate the `RenderingEngine`.
  Change `loadFont` to update the `ftFallbackFace_` as well.
  Change all info-retrieving functions to use `ftFallbackFace_`.
  Add `loadGlyph`, `loadGlyphIntoSlotWithoutCache` and
  `loadGlyphWithoutUpdate`, and remove `loadOutline`.
  Extract code about "get a face object from the cache and do sth."
  into a new function `withFace`.
  Add property `antiAliasingEnabled` and `renderMode` for the rendering
  engine.
  Some minor changes are included.

* src/ftinspect/engine/rendering.cpp, src/ftinspect/engine/rendering.hpp:
  New files, as described.

* src/ftinspect/panels/settingpanel.cpp,
  src/ftinspect/glyphcomponents/glyphbitmap.cpp,
  src/ftinspect/panels/singular.cpp: Uncomment functional code.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Updated.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Add the `SingularTab` and related widgets.

This introduces
the new singular tab. However, because the new tab heavily
depend on the new engine structure, it's current not functional. No bitmap
or outline will be displayed. This would be fixed after the `Engine` was
refactored in the next commit.

The new singular tab has the size and glyph index selector moved out as
modular widgets to be reused.

The new scroll and shortcut behaviours are introduced in this commit, which
depend on scroll events introduced in the custom `QGraphicsViewx`.

The infinity panning of grid is implemented mainly via
`SingularTab::updateGrid` and `Grid::updateRect`.

This commit is introducing new features since it would be unfavorable to "backport" old version of glyph components, and add those new features in future commits - this is way too complex.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
  Add `currentFontNumberOfGlyphs` and `dpi` functions.

* src/ftinspect/widgets/fontsizeselector.cpp,
  src/ftinspect/widgets/fontsizeselector.hpp:

  This is the new font size selector to replace the old size/DPI/zoom boxes.
  This widget is capable of handling wheel and key events delegated from other widgets.
  The support for fixed sizes and bitmap-only font is not yet added.

* src/ftinspect/widgets/glyphindexselector.cpp,
  src/ftinspect/widgets/glyphindexselector.hpp:
  This is the new glyph index selector to replace the old navi buttons.
  This selector is aware of index min/max, consists of a group of navi buttons, a text box (actually a spin box without buttons) to directly input glyph index.

* src/ftinspect/glyphcomponents/graphicsdefault.cpp,
  src/ftinspect/glyphcomponents/graphicsdefault.hpp:
  This struct contains all default graphical settings (mainly for singular view, e.g. the grid line color).

* src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp:
  Add the new tab into the main window.

* src/ftinspect/glyphcomponents/glyphbitmap.cpp,
  src/ftinspect/glyphcomponents/glyphbitmap.hpp:

  This will now delegate rendering to the engine instead of doing rendering itself. However, since the rendering part of the `Engine` is not implemented, code initializing `image_` is left commented.
  Also add another constructor for initializing directly from a `QImage`.

* src/ftinspect/glyphcomponents/glyphoutline.cpp,
  src/ftinspect/glyphcomponents/glyphoutline.hpp,
  src/ftinspect/glyphcomponents/glyphpointnumbers.cpp,
  src/ftinspect/glyphcomponents/glyphpointnumbers.hpp,
  src/ftinspect/glyphcomponents/glyphpoints.cpp,
  src/ftinspect/glyphcomponents/glyphpoints.hpp:
  Constructors of those items now accept a `FT_Glyph` instead of `FT_Outline`. The conversion is done inside the view, and the view won't be displayed if the glyph isn't outline glyph.
  This simplifies the code of `SingularTab`.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Updated.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Rewrite `MainGUI`.

Note:
This commit compiles, but the main view is removed, so you will get a
blank right panel. The singular view will be added back with major changes
in the next commit.

This commit mainly introduces below changes:

1. The original `MainGUI` contains almost all GUI elements. Most of them are
   taken out to modular components. The current `MainGUI` serves only as
   a skeleton provides coordinate between components, greatly shortened.
   It also provides some auxiliary code such as calling to file chooser.
2. The left panel is moved to `SettingPanel` class. The current
   `settingpanel.[ch]pp` are directly modified from the latest code, so they
   contains some options not implemented in the `Engine`.
   Structural code that is only added accompanying later change is removed,
   such as the comparator mode. Such code will be added back with the
   related feature. However, code for unimplemented options are simply
   commented out.
3. The main part is transformed into
a tabbed view. The original code is
   removed. Refactored, it will be added back in the next commit.
4. The navigation buttons (Next/Prev Font/Face/NI) are changed into the new
   triplet-selector, which is a major UI improvement.

* src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp: As described.

* src/ftinspect/panels/abstracttab.hpp: Add `AbstractTab` which is an
  interface for all tabs listening for font reloading and repainting.

* src/ftinspect/panels/settingpanel.cpp,
  src/ftinspect/panels/settingpanel.hpp:
  As described, this is the left panel. This requires intensive reviewing
  since many bugs had rooted here.

* src/ftinspect/widgets/tripletselector.cpp,
  src/ftinspect/widgets/tripletselector.hpp:
  As described, this is the triplet (Font/Subface/NI) selector.
  This component is also responsible for repopulating triplet information
  and keep up with the font file change (i.e. the
  `FontFileManager::currentFileChanged` event is captured here).

```
*
src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
  Add `fontValid` and `namedInstanceName` since `TripletSelector` requires
  them. However, they'll subject to change later.

* src/ftinspect/ftinspect.cpp: Remove call to `MainGUI::setDefaults`.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Updated.

2022-09-25  Charlie Jiang  <w@chariri.moe>

[ftinspect] WIP: Rewrite `MainGUI`.

Note: This commit doesn't compile. This change is splitted into 2 commits
to avoid a complicated diff.

* src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp: Old version removed.

2022-09-25  Charlie Jiang  <w@chariri.moe>

[ftinspect] Rename `rendering` dir to `glyphcomponents`.

All classes in `rendering` directory will be responsible for draw
glyphs, either as independent widgets or as `QGraphicsItem`. However, the
actual drawing part will be placed into `RenderingEngine`. Therefore, we
rename it to `glyphcomponents`.

* src/ftinspect/rendering/**: Renamed.

*
src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build,
  src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp: Updated.

2022-09-25  Charlie Jiang  <w@chariri.moe>

[ftinspect] Re-organize custom widgets.

* src/ftinspect/widgets/customwidgets.cpp,
  src/ftinspect/widgets/customwidgets.cpp: New files.
  Include `QGraphicsViewx`, `ZoomSpinBox` and `UnboundScrollArea` (for later
  use).

* src/ftinspect/widgets/qspinboxx.hpp, src/ftinspect/widgets/qspinboxx.hpp:
  Changed into `ZoomSpinBox` in `customwidgets.cpp`.

* src/ftinspect/widgets/qgraphicsviewx.cpp,
  src/ftinspect/widgets/qgraphicsviewx.hpp:
  Merged into `customwidgets.cpp`
```

```
* src/ftinspect/widgets/qcomboboxx.hpp,
  src/ftinspect/widgets/qcomboboxx.cpp: Removed. No longer needed.
  We're using custom `QAbstractListModel`'s `flags` func to disable items.

* src/ftinspect/widgets/qpushbuttonx.hpp,
  src/ftinspect/widgets/qpushbuttonx.cpp: Removed. No longer needed.
  We're using `setButtonNarrowest` in `uihelper.cpp`.

*
src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp: Updated to use new
  custom widgets.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Updated.

2022-09-25  Charlie Jiang  <w@chariri.moe>

[ftinspect] Use custom `QAbstractListModel` instead of manually mapping.

In `maingui.cpp`, mapping between `QComboBox` indices and actual FreeType
values was done manually. The enabled statuses of individual ComboBox items
were also maintained in `maingui.cpp`.

In this commit, those code was moved to seperate custom classes
implementating `QAbstractListModel`. All mapping was done there.
Enable/Disable states was maintained in the classes as well.
By doing this, the reason why some items were disabled was made more clear
and explicit. Adding more items is easier.

The `QComboBoxx` custom widget is no longer needed since disable flag can
be provided by the custom model by overriding the `flags` function.

`SimpleComboBoxModel` is a basic class for Key-Value-DisplayName
mapping.
Other models could extend this class if no complicated mapping (e.g.
`HintingModeComboBoxModel`) is needed.

* src/ftinspect/models/customcomboboxmodels.cpp,
  src/ftinspect/models/customcomboboxmodels.cpp: New files.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
  `Engine` now accepts "load target" value of certain anti-aliasing mode
  instead of the anti-aliasing enum value. The mapping was moved into
  `AntiAliasingComboBoxModel`.

* src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp: Move all mappings
  and enabled/disabled statuses to separate models.
  Remove mapping `QHash`es. Use `QComboBox` instead of `QComboBoxx`.
```

* src/ftinspect/meson.build, src/ftinspect/CMakeLists.txt: Updated.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Rename all private member variables with an underscore suffix.

(pure mechnical commit)

* src/ftinspect/**: Renaming. Also some variables with abbreviations
were renamed.

This
will enable nicer getter/setters, as discussed in #13.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Refactor `Engine`.

This commit decouples `Engine` so it no longer depends on `MainGUI`.

Because of that, a lot of getters and setters are added to `Engine`, and
`MainGUI` call setters in its `applySettings` function, which makes applying
of the settings lazy (only happen when the glyph repaints).

In the later commits, options will be divided into two types: mostly lazy
ones, and a few eager ones which need to be immediately applied, because
they need the cache to be purged.

Some code in `MainGUI` is moved into `Engine`, as well.

Functions in the `Engine` are re-ordered. Constructor is greatly reduced to
`queryEngine`.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
  As described.

* src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp:
  As described.

* src/ftinspect/ftinspect.cpp: Remove dependency of `Engine` against
  `MainGUI`.

2022-09-25
  Charlie Jiang <w@chariri.moe>

[ftinspect] Move out font file managing/watching out to a new class.

Introduce the feature that rejects invalid files.

* src/ftinspect/maingui.hpp, src/ftinspect/maingui.cpp: Move `fontList`,
  `fontWatcher`, `timer` and other code related to font file managing to
  new class `FontFileManager`.

* src/ftinspect/engine.hpp, src/ftinspect/engine.cpp:
  `Engine` class now holds `FontFileManager`.
  Also, make `MainGUI` open and close fonts indirectly via `Engine`.

* src/ftinspect/fontfilemanager.hpp, src/ftinspect/fontfilemanager.cpp:
  New files.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Updated.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Update build system settings.

* src/ftinspect/CMakeLists.txt: Fix MSVC-only options. Require Qt 5.15 and
  enable higher warning level.

* src/ftinspect/meson.build: Set C++ version. Require Qt 5.15.

2022-09-24 Alexei Podtelezhnikov <apodtele@gmail.com>

*
graph/x11/grx11.c (gr_x11_blitter_reset): Minor improvement.

2022-09-23 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/meson.build: No macOS driver yet.

Fixes #19.

2022-09-17 Alexei Podtelezhnikov <apodtele@gmail.com>

Revert "* src/ftlint.c (Checksum): Accept negative pitch."

This reverts commit bac9a53080b24e76a2dfe8def2b15682135b8454.
The pitch is always positive in the converted bitmap.

2022-09-17 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftlint.c (Checksum): Accept negative pitch.

2022-09-16 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/gblblit.c (gblender_blit_init): Fix for negative pitch.

Reported by Anurag Thakur.

2022-09-15 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Clean up the cache clearance.

Use separate functions to clear the color and channel gradient
caches and call them conditionally instead of passing the switch
around.

* graph/gblender.c (gblender_clear): Separate out...
(gblender_clear_channels): ...
this function.
(gblender_use_channels): Removed.
* graph/gblender.h: Update their declarations.
* graph/gblgblit.c (gblender_blit_init, grSetTargetPenBrush):
Updated to call the above functions and formatted.

2022-09-13 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftdiff.c: Add const qualifier to the executable basename.

2022-09-12 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftcommon.c (FTDemo_Display_New): Handle window titles.
* src/ftcommon.h: Update its prototype.
* src/ftgamma.c, src/ftgrid.c, src/ftsdf.c, src/ftstring.c, src/ftview.c
(main): Updated accordingly.

2022-09-11 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftdiff.c (render_state_draw), src/common.d (ft_strdup): Clean up.

2022-09-08 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/*.*: Add const qualifier to the executable basename.

2022-09-08 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/grobjs.* (grAlloc): Return void pointer.

2022-09-06 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph]
Fortify channel cache.

Using signed short offsets in the channel cache will risk to overflow
if the current cache size is to increase. Here we switch to unsigned
index and express it in the cache units.

* graph/gblender.h (GBlenderChanKeyRec): Update `index`.
* graph/gblender.c (gblender_clear, gblender_lookup_channel,
gblender_reset_channel_key): Updated accordingly.

2022-09-06 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/gblender.* (GBlenderRec): Cosmetic changes to cache array.

2022-08-29 shugaley <https://gitlab.freedesktop.org/shugaley>

* src/ftpngout.c (FTDemo_Display_Print): Declare `code` volatile.

Fixes #18.

2022-08-29 Alexei Podtelezhnikov <apodtele@gmail.com>

* Makefile (FTCOMMON_OBJ): Add `graph` dependency, include `rsvg-port`.

2022-08-29 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Rework #ifdef GBLENDER_STORE_BYTES.

This also settles on tripling the number of channel keys, which is
a safe bet in all
circumstances. Quadrupling might only work on
64-bit architectures or with added key structure padding, without
GBLENDER_STORE_BYTES defined.

* graph/gblender.h (GBlenderCell): Change definition.
* graph/gblblit.c (GDST_STOREB): Updated accordingly.
* graph/gblender.c (gblender_clear, gblender_reset_key,
  gblender_lookup, gblender_lookup_channel): Ditto.

2022-08-28 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Better hash function and a fix.

* graph/gblender.c (gblender_clear): Initialize recently grown array.
(gblender_lookup_channel): Improve hash function.

2022-08-28 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/gblender.c (gblender_lookup): Quest for perfect hash function.

2022-08-28 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Minor fixes.

(gblender_clear): Initialize with black background, whereas
foreground stays invalid.
(gblender_lookup_channel): Increase cache utilization.

2022-08-26 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph]
Slight optimization of cached gradients.

This saves about 1% of `ftgrid` execution time.

* graph/gblender.c (gblender_reset_key, gblender_reset_channel_key):
Implement faster gradients, which are rounded anyway.

2022-08-25 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Rework cache management.

With more complex rendering in `ftgrid`, the old cache management
resulted in excessive clashes and slow `gblender_lookup`. It is
better to replace the clashing entries than to preserve them and
search for an available spot in the table. This saves about 10%
of execution time in `ftgrid` without much effect on the others.

* graph/gblender.c (gblender_lookup): Replace old clashing entries
and hash function.
(gblender_lookup_channel): Ditto.
* graph/gblender.h (GBlenderRec): Remove `stat_clears`.

2022-08-25 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/gblender.c (gblender_lookup*): Count clashes directly.

2022-08-23 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph]
Count the number of hash clashes.

The hash table lookups take very noticeable time when rendering is
complex like in `ftgrid`. This can help optimize the hash function.

* graph/gblender.h (GBLENDER_STATS): New field for clashes.
* graph/gblender.c (gblender_init, gblender_lookup{,_channel},
gblender_dump_stats): Initialize, collect, and report clashes.

2022-08-18 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Fix mishandling of LCDv formats.

* graph/gblblit.c (gblender_blit)init): Triple the LCDv pitch.
* graph/gblany.h (_gblender_blit_{vrgb,vbgr}_*): Updated accordingly.

2022-08-17 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/gblender.c: Minor.

2022-08-17 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/gblblit.c (grBlitGlyphToSurface): Remove redundant check.

The rare empty glyphs will be caught later in `gblender_blit_init`.

2022-08-17 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/gblender.c (gblender_set_gamma_table):
Reintroduce linear loops.

2022-08-17 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/gblender.c (gblender_set_gamma_table): Updated sRGB ramps.

When we use finite approxination it is more appropriate to use the
actual values for the linear portion instead of the standard ones.

2022-08-16 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/common.c (utf8_next): Use more efficient algorithm.

2022-08-15 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftcommon.c (FTDemo_String_Set): Refactor.

2022-08-15 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftcommon.c (FTDemo_Make_Encoding_Tag): Refactor.

2022-08-11 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/gblender.c (gblender_set_gamma_table): Minor improvements.

2022-08-11 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftcommon.c (FTDemo_Draw_Header): Show non-trivial face index.

This is a useful hint if a file contains multiple faces.

2022-08-07 Alexei Podtelezhnikov <apodtele@gmail.com>

*
src/win32/grwin32.c: Cosmetic updates.

2022-08-06 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftgrid,ftmulti,ftstring,ftview] Document optional size.

* man/ftgrid.1, man/ftmulti.1, man/ftstring.1, man/ftview.1: Update.
* src/ftgrid.c, src/ftmulti.c, src/ftstring.c, src/ftview.c: Ditto.

2022-08-05 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftgrid,ftmulti,ftstring,ftview] Make the size optional.

* src/ftgrid.c (parse_cmdline), src/ftview.c (parse_cmdline),
src/ftstring.c (parse_cmdline), src/ftmulti.c (main): Fallback on
a default size if it is missing on the command line.

2022-07-30 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftgrid.c: Sync with freetype.

2022-07-30 Werner Lemberg <wl@gnu.org>

* src/ftlint.c (main): Check number of glyphs.

Problem reported by Marc Schönefeld <marc.schoenefeld@gmx.org>.

2022-07-30 Werner Lemberg <wl@gnu.org>

[ftgrid] Fix memory-related problems.

Reported by Marc Schönefeld <marc.schoenefeld@gmx.org>.

*
src/ftgrid.c (bitmap_scale): Limit bitmap size.
(grid_status_draw_outline): Handle errors in `FT_Get_Glyph`.

2022-07-11 Charlie Jiang <w@chariri.moe>

[meson] Add option to disable librsvg dependency.

As discussed in #14.

Currently, 'librsvg' is used to render OT-SVG glyphs. However, 'librsvg' is
far from simple to build as it requires tons of transitive dependencies,
especially on Windows.

Therefore we introducee a configuration option to switch 'librsvg' on or
off. This is trivial because the source code itself already honors a
`HAVE_LIBRSVG` macro.

* meson_options.txt: Add `librsvg` option (feature), defaulting to
`enabled`.

* meson.build: Honor the option above.

2022-06-28 Charlie Jiang <w@chariri.moe>

[ftinspect] Drop QMake, add CMake.

* src/ftinspect/CMakeLists.txt: Add CMake build file for `ftinspect`.

* src/ftinspect/ftinspect.pro: Remove QMake build file.

Fixes #11

2022-06-28 Charlie Jiang <w@chariri.moe>

* /src/ftinspect/.gitignore: Ignore
Visual Studio specific files.

This is for `ftinspect`.

2022-06-28 Charlie Jiang <w@chariri.moe>

[ftinspect] Eliminate compile warnings.

* src/ftinspect/engine.hpp: Use `uintptr_t` as type for `faceCounter`
instead of `int`.

* src/ftinspect/engine.cpp: Changing all casts to use `FTC_IDType` type
(=`uintptr_t`) we defined.

Fixes #10.

2022-06-21 Hugh McMaster <hugh.mcmaster@outlook.com>

* Makefile: Append CPPFLAGS to CFLAGS so that they work in `graph`.

2022-06-06 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftcommon.c (FTDemo_Hinting_Engine_Change): Minor fix.

2022-06-05 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftbench.c (main): Minor.

2022-06-04 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftbench] Minor tweaks.

* builds/windows/msvc/ftbench.vcxproj: Do not depend on "common.c".
* src/ftbench.c: Do not include "common.h".
(main): Minor output optimization.

2022-06-03 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftdump.c (main):
Report filename.

2022-06-03 Alexei Podtelezhnikov <apodtele@gmail.com>

* subprojects/zlib.wrap: Update to zlib version 1.2.12.

2022-06-02 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftbench.c (main): Indicate memory-mapped fonts.

2022-05-26 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftbench] Create more concise and informative header.

* src/ftbench.c (header): Report face, driver, and target info.
Borrowed from `FTDemo_Get_Info`.
(main): Remove and rearrange output.

2022-05-25 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftbench.c (main): Output spaces before units.

2022-05-24 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftbench.c (main): Reformat output (cont'd).

2022-05-24 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftbench.c (main): Reformat output.

2022-05-24 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftbench.c (main): Check the number of glyphs.

Fixes #8.

2022-05-24 Alexei Podtelezhnikov <apodtele@gmail.com>

*
graph/win32/grwin32.c: Do not include <string.h>, formatting.

2022-05-23 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph/win32] Simplify icon setting further.

* graph/win32/grwin32.c (gr_win32_surface_set_icon): Use `CreateIcon`.

2022-05-23 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph/win32] Simplify icon setting.

* graph/win32/grwin32.c (gr_win32_surface_set_icon): Use basic
`CreateBitmap` for color, which seems to work.

2022-05-22 Alexei Podtelezhnikov <apodtele@gmail.com>

This reverts commit 454797135a90.

* graph/win32/grwin32.c (gr_win32_surface_refresh_rectangle): Revert
to fix the 24 bpp rectangle invalidation.

2022-05-19 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/win32/grwin32.c (gr_win32_surface_refresh_rectangle): Minor move.

2022-05-01 Werner Lemberg <wl@gnu.org>

* Version 2.12.1 released.
==========

Tag sources with 'VER-2-12-1'.

* README: Updated.
* meson.build: Updated.
* man/*.1: Updated.

2022-04-09

Charlie Jiang <w@chariri.moe>

[windows] Fix IME freezing window, don't filter messages by HWND

* graph/win32/grwin32.c (Window_ThreadProc): Remove HWND filter of GetMessage call

2022-04-08 Charlie Jiang <w@chariri.moe>

[windows] Fix some GUI keys not working

* graph/win32/grwin32.c (gr_win32_surface_listen_event, Message_Process): Switch to custom Windows messaage ID.

2022-03-31 Werner Lemberg <wl@gnu.org>

* Version 2.12.0 released.
==========

Tag sources with 'VER-2-12-0'.

* README: Updated.
* meson.build: Updated.
* man/*.1: Updated.

* Makefile (dist): Generate `ChangeLog` entries for all commits since
version 2.11.0 (when we stopped creating this file manually).

2022-03-31 Werner Lemberg <wl@gnu.org>

Fix clang++ warnings.

* src/ftsdf.c (event_font_update, write_header, draw), src/rsvg-port.c
(rsvg_port_preset_slot): Add or remove casts.

2022-03-24 Anuj Verma <anuj@womp.xyz>

[ftsdf] Fix segmentation fault.

* src/ftsdf.c (draw):
Use integer to avoid overflow while reverse
looping `j`.

2022-02-19 Werner Lemberg <wl@gnu.org>

/: Replace header macros with file names.

We already did the same some time ago in the FreeTye library.

Also remove redundant inclusion of some header macros.

2022-02-19 Ben Wagner <bungeman@chromium.org>

[ftview] Handle foreground COLR.

* src/ftview.c (Render_All): handle 0xFFFF `layer_color_idx` without
crashing.

2022-02-11 Werner Lemberg <wl@gnu.org>

[ftdump] Emit PS dictionary info for option `-n` if available.

* src/ftdump.c: Include `FT_TYPE1_TABLES_H`.
(Print_Array): New function.
(Print_FontInfo_Dictionary, Print_FontPrivate_Dictionary): New functions.
(main): Use them.
(usage): Updated.

2022-02-06 Alexei Podtelezhnikov <apodtele@gmail.com>

[builds/windows] Add `rsvg` port to project files.

* builds/windows/msvc/ftgamma.vcxproj: Updated.
* builds/windows/msvc/ftgrid.vcxproj: Updated.
* builds/windows/msvc/ftstring.vcxproj: Updated.
* builds/windows/msvc/ftview.vcxproj:
Updated.

2022-02-05 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftgrid] Minor tweaks.

* src/ftgrid.c (scale_bitmap): Take the buffer immediately.
(DO_BITMAP): Minor.
* src/ftcommon.c (FTDemo_Glyph_To_Bitmap): Clarify ownership.

2022-02-05 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftgrid.c (bitmap_scale): Implement BGRA scaling.

2022-02-05 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftgrid] Implement embedded bitmap toggle.

* src/ftgrid.c (grid_status_draw_outline): Undo the last change.
(Process_Event): Implement the embedded bitmap toggle and shift
some other toggle keys for consistency.

(event_help, main): Updated.

2022-02-01 Werner Lemberg <wl@gnu.org>

src/ftgrid.c (grid_status_draw_outline): Enable embedded bitmaps.

Previously, bitmap-only fonts were displayed but bitmap strikes were not.

2022-01-30 Werner Lemberg <wl@gnu.org>

src/ftinspect/ftinspect.pro (PKGCONFIG, LIBS): Add 'librsvg'.

2022-01-28 Werner
Lemberg <wl@gnu.org>

* meson.build: We need 'librsvg' version 2.46.0 or newer.

Older versions don't have function `rsvg_handle_get_intrinsic_dimensions`.

2022-01-26 Werner Lemberg <wl@gnu.org>

* meson.build: Fix typo.

2022-01-25 Werner Lemberg <wl@gnu.org>

Use 'librsvg' conditionally.

* src/ftcommon.c, src/rsvg-port.c: Guard SVG code with `HAVE_LIBRSVG`.

2022-01-23 Werner Lemberg <wl@gnu.org>

* src/ftcommon.c (FTDemo_New): Update to recent FreeType change.

2022-01-23 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Reshuffle some headers.

* graph/grobjs.c, graph/grobjs.h, graph/win32/grwin32.c: Updated.

2022-01-20 Moazin Khatti <moazinkhatri@gmail.com>

Prototype SVG support.

* src/rsvg-port.c, src/rsvg-port.h: New files, providing SVG rendering hooks
using the 'librsvg' library.

* src/ftcommon.c: Include `FT_OTSVG_H` and `rsvg-port.h`.
(FTDemo_New): Set SVG renderer hooks.

(FTDemo_Glyph_To_Bitmap): Also accept SVG glyph format.

* Makefile:
Update for recent FreeType changes; the library's `configure`
script now tests for 'librsvg'.
(COMPILE): Updated to use `FT_DEMO_CFLAGS` for normal compilation, and
manually adding flags for 'librsvg' otherwise.
Update all users.
(LINK_LIBS): Updated to use `FT_DEMO_LDFLAGS` for normal compilation, and
manually adding flags for 'librsvg' otherwise.
(COMMON_OBJ): Updated
(rsvg-port): New rule.

* meson.build (librsvg_dep): New dependency.
(ftcommon_lib): Add `rsvg-port.*` files and update dependencies.

2022-01-16 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph/win32] Fix up the key event handling.

* graph/win32/grwin32.c (key_translators): Do not translate the keys
that Windows translates. We used to by-pass the system.
(gr_win32_surface_listen_event): Move custom translations from here...
(Message_Process): ... to here, which reduces the message posting.

2022-01-12 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftgrid] Use lighter gridlines to improve readability.

*
src/ftgrid.c (grid_status_colors, grid_status_alt_colors): Updated.

2022-01-11 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftgrid.c (write_header): Show page with glyph number or code.

2022-01-11 Werner Lemberg <wl@gnu.org>

Update all copyright notices.

2022-01-11 Werner Lemberg <wl@gnu.org>

* subprojects/libpng.wrap, subprojects/zlip.wrap: Update from upstream.

2022-01-09 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/gblblit.c (gblender_blit_init): Remove double dereferencing.

2022-01-08 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Fix negative pitch issues.

Some cropping issues were identified by forcing unusual negative
pitch in glyphs. This fixes those issues and removes some unused
fields.

* graph/gblblit.c (GBlenderBlitRec): Remove unused fields.
* graph/gblblit.c (graph/gblblit.c): Revise negative pitch code.
* graph/gblender.h (gblender_dump_stats): Remove macro semicolon.

2022-01-07 Werner Lemberg <wl@gnu.org>

* src/ftcommon.c
(icon_span): Fix undefined left-shift behaviour.

2022-01-07 Werner Lemberg <wl@gnu.org>

graph/grobjs.c (grFindColor): Fix undefined left-shift behaviour.

2022-01-01 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph/win32] Consolidate resizing calls.

Suggested by Dmitry Timoshkov.

* graph/win32/grwin32.c (gr_win32_surface_listen_event): Purge
obsolete WM_RESIZE.

2021-12-31 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/win32/grwin32.c: Logging and formatting clean-ups.

2021-12-31 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph/win32] Implement smooth resizing.

The window creation and the message loop has to be put in a separate
thread in order to achieve smooth resizing. Othrewise, the modal
loop cannot be interrupted to redraw the canvas. The main thread
also has a loop to receive the reposted messages, to update the
canvas and send WM_PAINT back via UpdateWindow. After this update
the win32 resizing feels similar to the X11 resizing.

*
graph/win32/grwin32.c (grWin32Surface): Store the host thread id.
(gr_win32_surface_init): Spin off `CreateWindow` from here...

(Window_ThreadProc): ... to here and run the window message loop.
(Message_Process): Updated to repost messages to the host thread.
(gr_win32_surface_listen_event): Run the host thread message loop.

2021-12-31 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/win32/grwin32.c (gr_win32_surface_init): Check allocations.

2021-12-31 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftcommon.c (FTDemo_Done): Flush stdout for mintty.

2021-12-31 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph/win32] Improve surface initialization.

* graph/win32/grwin32.c (gr_win32_surface_init): Allocate bitmaps by
calling `gr_win32_surface_resize`.

2021-12-11 Ben Wagner <bungeman@chromium.org>

[ftbench] Free stroker when done.

LeakSanitizer reported that the stroker object was being leaked.
Properly free it with FT_Stroker_Done. (!14)

* src/ftbench.c
(test_stroke): Free stroker.

2021-12-02 Werner Lemberg <wl@gnu.org>

* Version 2.11.1 released.
==========

Tag sources with 'VER-2-11-1'.

* README: Updated.
* meson.build: Updated.
* man/*.1: Updated.

* ChangeLog: Renamed to ...
* ChangeLog.old: ... this.

* Makefile (version_tag, CHANGELOG_SCRIPT): New variables.
(dist): Generate `ChangeLog` file with all commits since last release.

2021-11-30 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Minor clean-ups.

* graph/gblender.c (gblender_reset_key): Remove unnecessary masks.
* graph/gblany.h (*vrgb*, *vbgr*): Remove redundant casts.

2021-11-25 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/gblblit.c (gblender_blit_init): Remove dummy fallback.

2021-11-24 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/*.*: Remove legacy blitter ghosts.

2021-11-24 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Revise function arguments.

* graph/gblblit.c (grSetTargetGamma, grSetTargetPenBrush):
Input
surface instead of bitmap as more appropriate.
* graph/graph.h (grSetTargetGamma, grSetTargetPenBrush): Update
decarations.
* graph/grdevice.c, src/ftcommon.c, src/ftdiff.c: Update callers.

2021-11-22 Werner Lemberg <wl@gnu.org>

Whitespace, typos, other minor issues.

2021-11-22 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftview] Show empty charmaps if error, including UVS.

* src/ftcommon.c (get_last_char): Call `FT_Set_Charmap` and handle
its errors effectively setting `num_indices` to 0.
* src/ftview.c (event_index_change, event_encoding_change): Updated.

2021-11-22 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftdump.c (Print_Charmaps): Do not iterate UVS charmaps.

2021-11-20 Werner Lemberg <wl@gnu.org>

* graph/*: Fix clang compilation warnings.

Add casts for signed vs. unsigned issues.

2021-11-20 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftview] Report the last shown index or charcode.

Together with the index or charcode
limit, it gives a sense of the
portion of the font under review. This is reported at the bottom-
left corner.

* src/ftview.c (main): Pass the last shown index instead of error.
(Render_*): Return the last shown index, charcode, or -1.
(write_header): Receive and display the last shown index or charcode.

2021-11-18 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftcommon.c (get_last_char): Speed up sparse convergence.

2021-11-17 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftview] Report the last available index or charcode.

* src/ftcommon.c (get_last_char): Implement the binary search for
the last charcode using `FT_Get_Next_Char`.
(FTDemo_Set_Current_Font): Set the number of indices accordingly.
* src/ftview.c (write_header): Display the last charcode or index.

2021-11-17 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Complete removal of legacy blitter.

This switches the remaing monochrome rendering of headers to the main
blender and deletes the
legacy blitter. The old blitter can handle
exotic target surfaces like monochrome or 4-bit bitmaps. Anything
beyond the alpha blender can do.

* graph/grfont.c (grWriteCellChar, grWriteCellString): Switch from
`grBlitGlyphToBitmap` to `grBlitGlyphToSurface`.
* graph/grblit.[ch]: Delete files.
* graph/graph.h, graph/grconfig.h: Remove references.
* graph/rules.mk, graph/meson.build, vms_make.com,
builds/windows/msvc/migs.vcxproj: Update build scripts.

2021-11-15 Werner Lemberg <wl@gnu.org>

* src/*: Fix clang warnings.

All of them are minor and belong to one of the following categories:

* signedness casts

* corrected `printf` signatures
* missing `static` keyword for local functions

2021-11-15 Werner Lemberg <wl@gnu.org>

[ftbench] Fix clang warnings.

* src/ftbench.c (first_index, last_index): Make these two global variables signed, to be of the same type as `incr_index` (which can be positive or negative).
Update all related code.

2021-11-15 Alexei Podtelezhnikov
<apodtele@gmail.com>

* graph/win32/grwin32.c (gr_win32_surface_set_icon): Add background.

2021-11-15 Alexei Podtelezhnikov <apodtele@gmail.com>

Minor.

2021-11-12 Alexei Podtelezhnikov <apodtele@gmail.com>

[builds/windows] Use `props` to share dependencies.

Merges !12 from @ubawurinna.

* builds/windows/msvc/ft2demos.props: Consolidate FreeType dependencies.
* builds/windows/msvc/*.vcxproj: Updated.

2021-10-31 Alexei Podtelezhnikov <apodtele@gmail.com>

[builds/windows] New project and solution files.

These files can be used to build selected FreeType demo programs using Microsoft Visual C++. FreeType should be compiled in the parallel folder with freetype.lib available in freetype\objs\ for compilation. The executables will be delivered into freetype-demos\bin\ and expect freetype.dll there as well.

* builds/windows/msvc/ft2demos.sln: Solution file.
* builds/windows/msvc/*.vcxproj: Project files.

2021-10-26 Alexei Podtelezhnikov <apodtele@gmail.com>

*
Makefile: Remove obsolete rule.

2021-10-26 Alexei Podtelezhnikov <apodtele@gmail.com>

* Makefile: Reduce FT2_BUILD_FREETYPE usage

Public macro FT_FACE_DRIVER_NAME utilized in d01c79af9838 makes
FT2_BUILD_LIBRARY unnecassary in most cases.

* src/ftinspect/ftinspect.pro: Ditto.

2021-10-23 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/grblit.c (grBlitClean): Fix warnings.

2021-10-22 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/grblit.c (grGetSaturation, grBlitClean): Dead fixes.

2021-10-22 Alexei Podtelezhnikov <apodtele@gmail.com>

Minor.

2021-10-22 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/grblit.c (grGetSaturation): Fix return value.

2021-10-22 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Avoid unnecessary memory zeroing.

* graph/x11/grx11.c (gr_x11_surface_init): Call `malloc` explicitly.
* graph/grblit.c (grGetSaturation, grGetConversion): Call `malloc`
and `memset` explicitly even though this code is unused.

2021-10-18
Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/grdevice.c (grWriteSurface{Char,String}): Use GR_FONT_SIZE.

2021-10-18 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Do not zero a new bitmap.

The `grNewBitmap` function is mostly used to allocate and resize
canvas, which is shortly flooded with a background color. There is
no need to zero it.

* graph/grobjs.c (grNewBitmap): Always call `realloc` directly,
which does not initialize the buffer.

* graph/grobjs.c (grNewBitmap): Update description.

2021-10-13 Hugh McMaster <hugh.mcmaster@outlook.com>

graph/x11/rules.mk: Use standard pkg-config variable naming

2021-10-13 Hugh McMaster <hugh.mcmaster@outlook.com>

graph/x11/rules.mk: Use pkg-config to find the X11 headers and library

2021-10-07 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftinspect/engine/engine.cpp: Include FT_MODULE_H.

Fixes #2.

2021-10-05 Jouk Jansen <joukj@hrem.stm.tudelft.nl>

* vms_make.com: Updated to include
more demos.

2021-10-03 Alexei Podtelezhnikov <apodtele@gmail.com>

Synchronize with FreeType.

* src/ftcommon.c (FTDemo_Hinting_Engine_Change, FTDemo_Get_Info):
Use new public `FT_FACE_DRIVER_NAME` macro.
* src/ftdump.c (Print_Type): Ditto.
* src/ftdiff.c (process_event, render_state_draw): Ditto.
* src/ftinspect/engine/engine.cpp (loadFont): Ditto.

2021-10-01 Jouk Jansen <joukj@hrem.stm.tudelft.nl>

* graph/grtypes.h [__VMS]: Accomodate non-compliant C99.

2021-10-01 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/win32/grwin32.c (gr_win32_device_init): Use neutral background.

2021-09-30 Jouk Jansen <joukj@hrem.stm.tudelft.nl>

* vms_make.com, src/mlgetopt.h [VMS]: Updated.

2021-09-30 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/grtypes.h: Don't give up on <stdint.h>.

2021-09-16 Alexei Podtelezhnikov <apodtele@gmail.com>

```
 * src/ftdump.c (Print_Name): Reformat font revision.

2021-09-10  Alexei Podtelezhnikov  <apodtele@gmail.com>

 * src/ftdump.c
 (Print_Name): Ignore negative pre-epoch time.

2021-09-09  Alexei Podtelezhnikov  <apodtele@gmail.com>

 * src/ftdump.c (Print_Name): Avoid negative pre-epoch time.

2021-09-09  Alexei Podtelezhnikov  <apodtele@gmail.com>

 * src/ftdump.c (Print_Programs, Print_Glyfs): Handle no-data glyphs.

2021-09-09  Alexei Podtelezhnikov  <apodtele@gmail.com>

 * src/ftdump.c (Print_Programs, Print_Glyfs): Generalize messages.

2021-08-26  Alexei Podtelezhnikov  <apodtele@gmail.com>

 [ftstring] Loop through a custom string if present.

 * src/ftstring.c (Sample): Use the initial pointer for a custom string.
 (parse_cmdline): Assing the pointer here if any.
 (event_text_change): Loop through the pointer if set.
 (main): Minor tweak.

2021-07-24  Werner Lemberg  <wl@gnu.org>

 * meson.build: Build `ttdebug`.

 Problem reported by Andreas Radke <andreas.radke@mailbox.org>.

2021-07-24  Werner Lemberg  <wl@gnu.org>

 * meson.build: Sort executable rules.
```

Found in path(s):
* /opt/cola/permits/2148594610_1727706026.1938062/0/freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/ChangeLog
No license file was found, but licenses were detected in source scan.

```
/*********************************************************************
*
*  grx11.h  graphics driver for X11 (header)
*
```

```
*  This is the driver for displaying inside a window under X11,
*  used by the graphics utility of the FreeType test suite.
*
*  Copyright (C) 1999-2023 by
*  Antoine Leca, David Turner, Robert Wilhelm, and Werner Lemberg.
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*  understand and accept it fully.
*
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/2148594610_1727706026.1938062/0/freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/graph/x11/grx11.h
No license file was found, but licenses were detected in source scan.

```
/*
*  This is a cheap replacement for getopt() because that routine is not
*  available on some platforms and behaves differently on other platforms.
*  This code was written from scratch without looking at any other
*  implementation.
*
*  This code is hereby expressly placed in the public domain.
*  mleisher@crl.nmsu.edu (Mark Leisher)
*  10 October 1997
*
*  Last update 2019-06-10.
*/
```

Found in path(s):
* /opt/cola/permits/2148594610_1727706026.1938062/0/freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/src/mlgetopt.c

1.4884 logrus 1.8.1

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1.4887 go-systemd 22.3.2

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1.4889 go-units 0.4.0

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1.4890 x-sys 0.24.0

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1.4891 stdlib go1.21.13

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```
package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
 Plugin     string
 Option     string
 Severity   string // 'deprecated', 'removed', or 'unsupported'
 ReplacedBy string
 Additional string
 Version    string
}

func (n *Notice) ToString() string {
 s := ""
 if n.Option == "" {
  s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
 } else {
  s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
 }
 if n.Severity == SevUnsupported {
  s += "is unsupported by this migration tool in " + n.Version + "."
 } else if n.Severity == SevNewDefault {
  s += "is added as a default in " + n.Version + "."
 } else {
  s += "is " + n.Severity + " in " + n.Version + "."
 }
 if n.ReplacedBy != "" {
  s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
 }
 if n.Additional != "" {
  s += " " + n.Additional
 }
 return s
}

const (
 // The following statuses are used to indicate the state of support/deprecation in a given release.
 SevDeprecated  = "deprecated"
  // deprecated, but still completely functional
 SevIgnored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
 SevRemoved     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present
in the Corefile
 SevNewDefault  = "newdefault"  // added to the default corefile.  CoreDNS may not function properly if it is not
present in the corefile.
 SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool
```

// The following statuses are used for selecting/filtering notifications
SevAll = "all" // show all statuses
)
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package simulator

import (
 "github.com/vmware/govmomi/vim25/methods"
 "github.com/vmware/govmomi/vim25/mo"
 "github.com/vmware/govmomi/vim25/soap"
 "github.com/vmware/govmomi/vim25/types"
)

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
 LicenseKey: "00000-00000-00000-00000-00000",
 EditionKey: "eval",
 Name:       "Evaluation Mode",
 Properties: []types.KeyAnyValue{
  {
   Key: "feature",
   Value: types.KeyValue{
    Key:   "serialuri:2",
    Value: "Remote virtual Serial Port Concentrator",
   },
  },
  {
   Key: "feature",
   Value: types.KeyValue{
    Key:   "dvs",
    Value: "vSphere Distributed Switch",
   },
  },
 },
}

type LicenseManager struct {
 mo.LicenseManager
}
```

```
func (m *LicenseManager) init(r *Registry) {
 m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}

 if
 r.IsVPX() {
  am := Map.Put(&LicenseAssignmentManager{}).Reference()
  m.LicenseAssignmentManager = &am
 }
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
 body := &methods.AddLicenseBody{
  Res: &types.AddLicenseResponse{},
 }

 for _, license := range m.Licenses {
  if license.LicenseKey == req.LicenseKey {
   body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
   return body
  }
 }

 m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
  LicenseKey: req.LicenseKey,
  Labels:     req.Labels,
 })

 body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

 return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
 body := &methods.RemoveLicenseBody{
  Res: &types.RemoveLicenseResponse{},
 }

 for i, license := range m.Licenses {
  if req.LicenseKey == license.LicenseKey {
   m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...)
   return body
  }
 }
 return
 body
}
```

```
func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
 body := &methods.UpdateLicenseLabelBody{}

 for i := range m.Licenses {
  license := &m.Licenses[i]

  if req.LicenseKey != license.LicenseKey {
   continue
  }

  body.Res = new(types.UpdateLicenseLabelResponse)

  for j := range license.Labels {
   label := &license.Labels[j]

   if label.Key == req.LabelKey {
    if req.LabelValue == "" {
     license.Labels = append(license.Labels[:i], license.Labels[i+1:]...)
    } else {
     label.Value = req.LabelValue
    }
    return body
   }
  }

  license.Labels = append(license.Labels, types.KeyValue{
   Key:   req.LabelKey,
   Value: req.LabelValue,
  })

  return body
 }

 body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
 return body
}

type LicenseAssignmentManager struct {
 mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault
 {
 body := &methods.QueryAssignedLicensesBody{
  Res: &types.QueryAssignedLicensesResponse{},
 }

 // EntityId can be a HostSystem or the vCenter InstanceUuid
```

```
 if req.EntityId != "" {
  if req.EntityId != Map.content().About.InstanceUuid {
   id := types.ManagedObjectReference{
    Type:  "HostSystem",
    Value: req.EntityId,
   }

   if Map.Get(id) == nil {
    return body
   }
  }
 }

 body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
  {
   EntityId:        req.EntityId,
   AssignedLicense: EvalLicense,
  },
 }

 return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
 info := EvalLicense

 info.LicenseKey = key
 info.Labels = labels

 return info
}
```

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==========
The common/types/pb/equal.go modification of proto.Equal logic
==========
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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procfs provides functions to retrieve system, kernel and process
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==========
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==========

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>>> freebsd-base64-4.8

base64.c -- routines to encode/decode base64 data
$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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>>> unicode-5.0

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1.4904 godo 1.118.0

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1.4905 gophercloud 1.13.0

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1.4906 units 0.0.0-20240626203959-61d1e3462e30

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1.4907 free-type 2.13.3

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1.4908 libffi 0.0

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1.4909 kubernetes-csi-node-driver-registrar 2.8.0

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// License information for the exposed API.

//
// For more information: http://goo.gl/8us55a#licenseObject
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 Name string `json:"name,omitempty"`
 URL string `json:"url,omitempty"`
}
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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

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org.eclipse.jetty.toolchain:jetty-schemas

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* java.sun.security.ssl

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org.apache.tomcat:tomcat-jasper
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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
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The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.4917 websocket-common 9.4.54.v20240208

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The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
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http://openjdk.java.net/legal/gplv2+ce.html

OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.4918 string_decoder 1.3.0

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1.4919 boringssl 3.0.2 15

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```
# This file contains a list of people who've made non-trivial
# contribution to the Google C++ Testing Framework project.  People
# who commit code to the project are encouraged to add their names
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1.4920 jandex 3.2.0

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 "wxWindows"
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spdx-license-ids

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Installation

[Download JSON directly](https://raw.githubusercontent.com/jslicense/spdx-license-ids/main/index.json), or [use](https://docs.npmjs.com/cli/install) [npm](https://docs.npmjs.com/about-npm/):

```
npm install spdx-license-ids
```

[Node.js](https://nodejs.org/) API

require('spdx-license-ids')

Type: `string[]`

All license IDs except for the currently deprecated ones.

```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'ADSL', 'AFL-1.1', 'AFL-1.2', 'AFL-2.0', 'AFL-2.1', 'AFL-3.0', 'AGPL-1.0-only', ...]

ids.includes('BSD-3-Clause'); //=> true
ids.includes('CC-BY-1.0');
 //=> true

ids.includes('GPL-3.0'); //=> false
```

require('spdx-license-ids/deprecated')

Type: `string[]`

Deprecated license IDs.

```javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
//=> ['AGPL-1.0', 'AGPL-3.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', 'GPL-2.0', ...]

deprecatedIds.includes('BSD-3-Clause'); //=> false
deprecatedIds.includes('CC-BY-1.0'); //=> false

deprecatedIds.includes('GPL-3.0'); //=> true
```

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1.4923 kubernetes-client 0.31.0

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1.4925 kubernetes-component-base 0.31.0

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1.4926 kubernetes-csi-csi-lib-utils 0.19.0

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
```

}
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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////

ca-legacy(8)
==========
:doctype: manpage
:man source: ca-legacy

NAME
---
ca-legacy - Manage the system configuration for legacy CA certificates

SYNOPSIS
----
ca-legacy ['COMMAND']

DESCRIPTION
----
ca-legacy(8) is used to include or exclude a set of legacy Certificate Authority (CA) certificates in the system's list of trusted CA certificates.

The list of CA certificates and trust flags
included in the ca-certificates package
are based on the decisions made by Mozilla.org according to the Mozilla CA policy.

Occasionally, removal or distrust decisions made by Mozilla.org might be incompatible with the requirements or limitations of some applications that also use the CA certificates list in the Linux environment.

The ca-certificates package might keep some CA certificates included and trusted by default,
as long as it is seen necessary by the maintainers, despite the fact that they have
been removed by Mozilla. These certificates are called legacy CA certificates.

The general requirements to keep legacy CA certificates included and trusted might change over time,
for example if functional limitations of software packages have been resolved.
Future versions of the ca-certificates package might reduce the set of legacy CA certificates
that are included and trusted by default.

The ca-legacy(8) command can be used to override the default behaviour.

The mechanisms
to individually trust or distrust CA certificates as described in update-ca-trust(8) still apply.

COMMANDS
---
check::
The current configuration will be shown.

default::
Configure the system to use the default configuration, as recommended
by the package maintainers.

disable::
Configure the system to explicitly disable legacy CA certificates.
Using this configuration, the system will use the set of
included and trusted CA certificates as released by Mozilla.

install::
The configuration file will be read and the system configuration
will be set accordingly. This command is executed automatically during
upgrades of the ca-certificates package.

FILES

/etc/pki/ca-trust/ca-legacy.conf::
A configuration file that will be used and modified by the ca-legacy command.
The contents of the configuration file will be read on package upgrades.

AUTHOR

Written by Kai Engert.

Found in path(s):
* /opt/cola/permits/2160682333_1726669393.3738756/0/ca-certificates-2024.2.69_v8.0.303-80.0.el8_10.src.rpm-cosi-expand-archive-9L2JT0jM/ca-legacy.8.txt
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////

update-ca-trust(8)
==========
:doctype: manpage
:man source: update-ca-trust

NAME
---
update-ca-trust - manage consolidated and dynamic configuration of CA
certificates and associated trust

SYNOPSIS
---
update-ca-trust ['COMMAND']

DESCRIPTION
---
update-ca-trust(8) is used to manage a consolidated and dynamic configuration
feature of Certificate Authority (CA) certificates and
 associated trust.

The feature is available for new applications that read the

consolidated configuration files found in the /etc/pki/ca-trust/extracted directory
or that load the PKCS#11 module p11-kit-trust.so

Parts of the new feature are also provided in a way to make it useful
for legacy applications.

Many legacy applications expect CA certificates and trust configuration
in a fixed location, contained in files with particular path and name,
or by referring to a classic PKCS#11 trust module provided by the
NSS cryptographic library.

The dynamic configuration feature provides functionally compatible replacements
for classic configuration files and for the classic NSS trust module named libnssckbi.

In order to enable legacy applications, that read the classic files or
access the classic module, to make use of the new consolidated and dynamic configuration
feature, the classic filenames have been changed to symbolic links.
The symbolic links refer to dynamically created and
consolidated
output stored below the /etc/pki/ca-trust/extracted directory hierarchy.

The output is produced using the 'update-ca-trust' command (without parameters),
or using the 'update-ca-trust extract' command.
In order to produce the output, a flexible set of source configuration
is read, as described in section <<sourceconf,SOURCE CONFIGURATION>>.

In addition, the classic PKCS#11 module
is replaced with a new PKCS#11 module (p11-kit-trust.so) that dynamically
reads the same source configuration.

[[sourceconf]]
SOURCE CONFIGURATION

The dynamic configuration feature uses several source directories that
will be scanned for any number of source files. *It is important to select
the correct subdirectory for adding files, as the subdirectory defines how
contained certificates will be trusted or distrusted, and which file formats are read.*

Files in *subdirectories below the directory hierarchy /usr/share/pki/ca-trust-source/* contain CA certificates and

trust settings in the PEM file format. The trust settings found here will be
interpreted with a *low priority*.

Files in *subdirectories below the directory hierarchy /etc/pki/ca-trust/source/* contain CA certificates and
trust settings in the PEM file format. The trust settings found here will be
interpreted with a *high priority*.

.You may use the following rules of thumb to decide, whether your configuration files should be added to the /etc or rather to the /usr directory hierarchy:
* If you are manually adding a configuration file to a system, you probably
want it to override any other default configuration, and you most likely should
add it to the respective subdirectory in the /etc hierarchy.
* If you are creating a package that provides additional root CA certificates,
that is intended for distribution to several computer systems, but you still
want to allow the administrator to override your list, then your package should
add your files to the respective subdirectory in
the /usr hierarchy.
* If you are creating a package that is supposed to override the default system
trust settings, that is intended for distribution to several computer systems, then your package should install the files to the respective
subdirectory in the /etc hierarchy.

.*QUICK HELP 1*: To add a certificate in the simple PEM or DER file formats to the list of CAs trusted on the system:
* add it as a new file to directory /etc/pki/ca-trust/source/anchors/
* run 'update-ca-trust extract'

.*QUICK HELP 2*: If your certificate is in the extended BEGIN TRUSTED file format (which may contain distrust/blacklist trust flags, or trust flags for usages other than TLS) then:
* add it as a new file to directory /etc/pki/ca-trust/source/
* run 'update-ca-trust extract'

.In order to offer simplicity and flexibility, the way certificate files are treated depends on the subdirectory they are installed to.
* simple trust anchors subdirectory: /usr/share/pki/ca-trust-source/anchors/ or /etc/pki/ca-trust/source/anchors/
*
simple blacklist (distrust) subdirectory: /usr/share/pki/ca-trust-source/blacklist/ or /etc/pki/ca-trust/source/blacklist/
* extended format directory: /usr/share/pki/ca-trust-source/ or /etc/pki/ca-trust/source/

.In the main directories /usr/share/pki/ca-trust-source/ or /etc/pki/ca-trust/source/ you may install one or multiple files in the following file formats:
* certificate files that include trust flags,
in the BEGIN/END TRUSTED CERTIFICATE file format
(any file name), which have been created using the openssl x509 tool
and the -addreject -addtrust options.
Bundle files with multiple certificates are supported.
* files in the p11-kit file format using the .p11-kit file name
extension, which can (e.g.) be used to distrust certificates
based on serial number and issuer name, without having the
full certificate available.
(This is currently an undocumented format, to be extended later.
For examples of the supported formats, see the files
shipped with the ca-certificates package.)
* certificate files without trust flags in either the DER file format or in
the PEM (BEGIN/END CERTIFICATE) file format (any file name). Such files

will be added with neutral trust, neither trusted nor distrusted.
They will simply be known to the system, which might be helpful to
assist cryptographic software in constructing chains of certificates.
(If you want a CA certificate in these file formats to be trusted, you
should remove it from this directory and move it to the
./anchors subdirectory instead.)

In the anchors subdirectories /usr/share/pki/ca-trust-source/anchors/ or /etc/pki/ca-trust/source/anchors/
you may install one or multiple certificates in either the DER file
format or in the PEM (BEGIN/END CERTIFICATE) file format.
Each certificate will be treated as *trusted* for all purposes.

In the blacklist subdirectories /usr/share/pki/ca-trust-source/blacklist/ or /etc/pki/ca-trust/source/blacklist/
you may install
one or multiple certificates in either the DER file
format or in the PEM (BEGIN/END CERTIFICATE) file format.
Each certificate will be treated as *distrusted* for all purposes.

Please refer to the x509(1) manual page for the documentation of the
BEGIN/END CERTIFICATE and BEGIN/END TRUSTED CERTIFICATE file formats.

Applications that rely on a static file for a list of trusted CAs
may load one of the files found in the /etc/pki/ca-trust/extracted
directory. After modifying any file in the
/usr/share/pki/ca-trust-source/ or /etc/pki/ca-trust/source/
directories or in any of their subdirectories, or after adding a file,
it is necessary to run the 'update-ca-trust extract' command,
in order to update the consolidated files in /etc/pki/ca-trust/extracted/ .

Applications that load the classic PKCS#11 module using filename libnssckbi.so
(which has been converted into a symbolic link pointing to the new module)
and any application capable of
loading PKCS#11 modules and loading p11-kit-trust.so,
will benefit from
the dynamically merged set of certificates and trust information stored in the
/usr/share/pki/ca-trust-source/ and /etc/pki/ca-trust/source/ directories.

[[extractconf]]
EXTRACTED CONFIGURATION

The directory /etc/pki/ca-trust/extracted/ contains generated CA certificate
bundle files which are created and updated, based on the <<sourceconf,SOURCE CONFIGURATION>>
by running the 'update-ca-trust extract' command.

If your application isn't able to load the PKCS#11 module p11-kit-trust.so,
then you can use these files in your application to load a list of global
root CA certificates.

Please never manually edit the files stored in this directory,
because your changes will be lost and the files automatically overwritten,
each time the 'update-ca-trust extract' command gets executed.

In order to install new trusted or distrusted certificates,
please rather install them in the respective subdirectory below the
/usr/share/pki/ca-trust-source/
 or /etc/pki/ca-trust/source/
directories, as described in the <<sourceconf,SOURCE CONFIGURATION>> section.

The directory /etc/pki/ca-trust/extracted/java/ contains
a CA certificate bundle in the java keystore file format.
Distrust information cannot be represented in this file format,
and distrusted certificates are missing from these files.
File cacerts contains CA certificates trusted for TLS server authentication.

The directory /etc/pki/ca-trust/extracted/openssl/ contains
CA certificate bundle files in the extended BEGIN/END TRUSTED CERTIFICATE file format,
as described in the x509(1) manual page.
File ca-bundle.trust.crt contains the full set of all trusted
or distrusted certificates, including the associated trust flags.

The directory /etc/pki/ca-trust/extracted/pem/ contains
CA certificate bundle files in the simple BEGIN/END CERTIFICATE file format,
as described in the x509(1) manual page.
Distrust information cannot be represented in this file format,
and distrusted
 certificates are missing from these files.
File tls-ca-bundle.pem contains CA certificates
trusted for TLS server authentication.
File email-ca-bundle.pem contains CA certificates
trusted for E-Mail protection.
File objsign-ca-bundle.pem contains CA certificates
trusted for code signing.

The directory /etc/pki/ca-trust/extracted/edk2/ contains a CA
certificate bundle ("cacerts.bin") in the "sequence of
EFI_SIGNATURE_LISTs" format, defined in the UEFI-2.7 specification,
sections "31.4.1 Signature Database" and
"EFI_CERT_X509_GUID". Distrust information cannot be represented in
this file format, and distrusted certificates are missing from these
files. File "cacerts.bin" contains CA certificates trusted for TLS
server authentication.

COMMANDS

(absent/empty command)::
Same as the *extract* command described below. (However, the command may print fewer warnings, as this command is being run during rpm package installation, where non-fatal status output is undesired.)

extract::
Instruct update-ca-trust to scan the <<sourceconf,SOURCE CONFIGURATION>> and produce updated versions of the consolidated configuration files stored below the /etc/pki/ca-trust/extracted directory hierarchy.

FILES

/etc/pki/tls/certs/ca-bundle.crt::
Classic filename, file contains a list of CA certificates trusted for TLS server authentication usage, in the simple BEGIN/END CERTIFICATE file format, without distrust information.
This file is a symbolic link that refers to the consolidated output created by the update-ca-trust command.

/etc/pki/tls/certs/ca-bundle.trust.crt::
Classic filename, file contains a list of CA certificates in the extended BEGIN/END TRUSTED CERTIFICATE file format, which includes trust (and/or distrust) flags specific to certificate usage.
This file is a symbolic link that refers to the consolidated output created by the update-ca-trust command.

/etc/pki/java/cacerts::
Classic filename, file contains a list of CA certificates trusted for TLS server authentication usage, in the Java keystore file format, without distrust information.
This file is a symbolic link that refers to the consolidated output created by the update-ca-trust command.

/usr/share/pki/ca-trust-source::
Contains multiple, low priority source configuration files as explained in section <<sourceconf,SOURCE CONFIGURATION>>. Please pay attention to the specific meanings of the respective subdirectories.

/etc/pki/ca-trust/source::
Contains multiple, high priority source configuration files as explained in section <<sourceconf,SOURCE CONFIGURATION>>. Please pay attention to the specific meanings of the respective subdirectories.

/etc/pki/ca-trust/extracted::
Contains consolidated and automatically generated configuration files for consumption by applications, which are created using the 'update-ca-trust extract' command. Don't edit files in this directory, because they will be overwritten.
See section <<extractconf,EXTRACTED CONFIGURATION>> for additional details.

AUTHOR

Written by Kai Engert and Stef Walter.

Found in path(s):
* /opt/cola/permits/2160682333_1726669393.3738756/0/ca-certificates-2024.2.69_v8.0.303-80.0.el8_10.src.rpm-cosi-expand-archive-9L2JT0jM/update-ca-trust.8.txt
No license file was found, but licenses were detected in source scan.

License: Public Domain

Found in path(s):
* /opt/cola/permits/2160682333_1726669393.3738756/0/ca-certificates-2024.2.69_v8.0.303-80.0.el8_10.src.rpm-cosi-expand-archive-9L2JT0jM/ca-certificates.spec
No license file was found, but licenses were detected in source scan.

```
# This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 2 of the License, or
# (at your option) any later version.
# This program is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
# GNU General Public License for more details.
# You should have received a copy of the GNU General Public License
# along with this program; if not, write to the Free Software
```

Found in path(s):
* /opt/cola/permits/2160682333_1726669393.3738756/0/ca-certificates-2024.2.69_v8.0.303-80.0.el8_10.src.rpm-cosi-expand-archive-9L2JT0jM/certdata2pem.py
No license file was found, but licenses were detected in source scan.

```
#
# This Source Code Form is subject to the terms of the Mozilla Public
# License, v. 2.0. If a copy of the MPL was not distributed with this
# file, You can obtain one at http://mozilla.org/MPL/2.0/.

#
# certdata.txt
#
# This file contains the object definitions for the certs and other
# information "built into" NSS.
#
# Object definitions:
#
#    Certificates
#
#  -- Attribute --              -- type --          -- value --
#  CKA_CLASS                    CK_OBJECT_CLASS     CKO_CERTIFICATE
#  CKA_TOKEN                    CK_BBOOL            CK_TRUE
#  CKA_PRIVATE                  CK_BBOOL            CK_FALSE
#  CKA_MODIFIABLE               CK_BBOOL            CK_FALSE
```

```
# CKA_LABEL                    UTF8              (varies)
# CKA_CERTIFICATE_TYPE         CK_CERTIFICATE_TYPE CKC_X_509
# CKA_SUBJECT                  DER+base64        (varies)
# CKA_ID                       byte array        (varies)
#
  CKA_ISSUER                   DER+base64        (varies)
# CKA_SERIAL_NUMBER            DER+base64        (varies)
# CKA_VALUE                    DER+base64        (varies)
# CKA_NSS_EMAIL                ASCII7            (unused here)
# CKA_NSS_SERVER_DISTRUST_AFTER DER+base64       (varies)
# CKA_NSS_EMAIL_DISTRUST_AFTER  DER+base64       (varies)
#
#   Trust
#
# -- Attribute --             -- type --        -- value --
# CKA_CLASS                    CK_OBJECT_CLASS   CKO_TRUST
# CKA_TOKEN                    CK_BBOOL          CK_TRUE
# CKA_PRIVATE                  CK_BBOOL          CK_FALSE
# CKA_MODIFIABLE               CK_BBOOL          CK_FALSE
# CKA_LABEL                    UTF8              (varies)
# CKA_ISSUER                   DER+base64        (varies)
# CKA_SERIAL_NUMBER            DER+base64        (varies)
# CKA_CERT_HASH                binary+base64     (varies)
# CKA_EXPIRES                  CK_DATE
  (not used here)
# CKA_TRUST_DIGITAL_SIGNATURE  CK_TRUST          (varies)
# CKA_TRUST_NON_REPUDIATION    CK_TRUST          (varies)
# CKA_TRUST_KEY_ENCIPHERMENT   CK_TRUST          (varies)
# CKA_TRUST_DATA_ENCIPHERMENT  CK_TRUST          (varies)
# CKA_TRUST_KEY_AGREEMENT      CK_TRUST          (varies)
# CKA_TRUST_KEY_CERT_SIGN      CK_TRUST          (varies)
# CKA_TRUST_CRL_SIGN           CK_TRUST          (varies)
# CKA_TRUST_SERVER_AUTH        CK_TRUST          (varies)
# CKA_TRUST_CLIENT_AUTH        CK_TRUST          (varies)
# CKA_TRUST_CODE_SIGNING       CK_TRUST          (varies)
# CKA_TRUST_EMAIL_PROTECTION   CK_TRUST          (varies)
# CKA_TRUST_IPSEC_END_SYSTEM   CK_TRUST          (varies)
# CKA_TRUST_IPSEC_TUNNEL       CK_TRUST          (varies)
# CKA_TRUST_IPSEC_USER         CK_TRUST          (varies)
# CKA_TRUST_TIME_STAMPING      CK_TRUST          (varies)
# CKA_TRUST_STEP_UP_APPROVED   CK_BBOOL          (varies)
# (other
 trust attributes can be defined)
#

#
# The object to tell NSS that this is a root list and we don't
# have to go looking for others.
```

```
#
BEGINDATA
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_BUILTIN_ROOT_LIST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Mozilla Builtin Roots"

#
# Certificate "GlobalSign Root CA"
#
# Issuer: CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE
# Serial Number:04:00:00:00:00:01:15:4b:5a:c3:94
# Subject: CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Tue Sep 01 12:00:00 1998
# Not Valid After : Fri Jan 28 12:00:00 2028
# Fingerprint (SHA-256):
EB:D4:10:40:E4:BB:3E:C7:42:C9:E3:81:D3:1E:F2:A4:1A:48:B6:68:5C:96:E7:CE:F3:C1:DF:6C:D4:33:1C:99
# Fingerprint (SHA1): B1:BC:96:8B:D4:F4:9D:62:2A:A8:9A:81:F2:15:01:52:A4:1D:82:9C
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign
 Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\127\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\020\060\016\006\003
\125\004\013\023\007\122\157\157\164\040\103\101\061\033\060\031
\006\003\125\004\003\023\022\107\154\157\142\141\154\123\151\147
\156\040\122\157\157\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\127\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\020\060\016\006\003
\125\004\013\023\007\122\157\157\164\040\103\101\061\033\060\031
\006\003\125\004\003\023\022\107\154\157\142\141\154\123\151\147
\156\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\004\000\000\000\000\001\025\113\132\303\224
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\165\060\202\002\135\240\003\002\001\002\002\013\004
```

\000\000\000\000\001\025\113\132\303\224\060\015\006\011\052\206
\110\206\367\015\001\001\005\005\000\060\127\061\013\060\011\006
\003\125\004\006\023\002\102\105\061\031\060\027\006\003\125\004
\012\023\020\107\154\157\142\141\154\123\151\147\156\040\156\166
\055\163\141\061\020\060\016\006\003\125\004\013\023\007\122\157
\157\164\040\103\101\061\033\060\031\006\003\125\004\003\023\022
\107\154\157\142\141\154\123\151\147\156\040\122\157\157\164\040
\103\101\060\036\027\015\071\070\060\071\060\061\061\062\060\060
\060\060\132\027\015\062\070\060\061\062\070\061\062\060\060\060
\060\132\060\127\061\013\060\011\006\003\125\004\006\023\002\102
\105\061\031\060\027\006\003\125\004\012\023\020\107\154\157\142
\141\154\123\151\147\156\040\156\166\055\163\141\061\020\060\016
\006\003\125\004\013\023\007\122\157\157\164\040\103\101\061\033
\060\031\006\003\125\004\003\023\022\107\154\157\142\141\154\123
\151\147\156\040\122\157\157\164\040\103\101\060\202\001\042\060
\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202
\001\017\000\060\202\001\012\002\202\001\001\000\332\016\346\231
\215\316\243\343\117\212\176\373\361\213\203\045\153\352\110\037
\361\052\260\271\225\021\004\275\360\143\321\342\147\146\317\034
\335\317\033\110\053\356\215\211\216\232\257\051\200\145\253\351
\307\055\022\313\253\034\114\160\007\241\075\012\060\315\025\215
\117\370\335\324\214\120\025\034\357\120\356\304\056\367\374\351
\122\362\221\175\340\155\325\065\060\216\136\103\163\362\101\351
\325\152\343\262\211\072\126\071\070\157\006\074\210\151\133\052
\115\305\247\124\270\154\211\314\233\371\074\312\345\375\211\365
\022\074\222\170\226\326\334\164\156\223\104\141\321\215\307\106
\262\165\016\206\350\031\212\325\155\154\325\170\026\225\242\351
\310\012\070\353\362\044\023\117\163\124\223\023\205\072\033\274
\036\064\265\213\005\214\271\167\213\261\333\037\040\221\253\011
\123\156\220\316\173\067\164\271\160\107\221\042\121\143\026\171
\256\261\256\101\046\010\310\031\053\321\106\252\110\326\144\052
\327\203\064\377\054\052\301\154\031\103\112\007\205\347\323\174
\366\041\150\357\352\362\122\237\177\223\220\317\002\003\001\000
\001\243\102\060\100\060\016\006\003\125\035\017\001\001\377\004
\004\003\002\001\006\060\017\006\003\125\035\023\001\001\377\004
\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026\004
\024\140\173\146\032\105\015\227\312\211\120\057\175\004\315\064
\250\377\374\375\113\060\015\006\011\052\206\110\206\367\015\001
\001\005\005\000\003\202\001\001\000\326\163\347\174\117\166\320
\215\277\354\272\242\276\064\305\050\062\265\174\374\154\234\054
\053\275\011\236\123\277\153\136\252\021\110\266\345\010\243\263
\312\075\141\115\323\106\011\263\076\303\240\343\143\125\033\362
\272\357\255\071\341\103\271\070\243\346\057\212\046\073\357\240
\120\126\371\306\012\375\070\315\304\013\160\121\224\227\230\004
\337\303\137\224\325\025\311\024\101\234\304\135\165\144\025\015
\377\125\060\354\206\217\377\015\357\054\271\143\106\366\252\374
\337\274\151\375\056\022\110\144\232\340\225\360\246\357\051\217
\001\261\025\265\014\035\245\376\151\054\151\044\170\036\263\247

```
\034\161\142\356\312\310\227\254\027\135\212\302\370\107\206\156
\052\304\126\061\225\320\147\211\205\053\371\154\246\135\106\235
\014\252\202\344\231\121\335\160\267\333\126\075\141\344\152\341
\134\326\366\376\075\336\101\314\007\256\143\122\277\123\123\364
\053\351\307\375\266\367\202\137\205\322\101\030\333\201\263\004
\034\305\037\244\200\157\025\040\311\336\014\210\012\035\326\146
\125\342\374\110\311\051\046\151\340
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GlobalSign Root CA"
# Issuer: CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE
# Serial Number:04:00:00:00:00:01:15:4b:5a:c3:94
# Subject: CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Tue Sep 01 12:00:00 1998
#
 Not Valid After : Fri Jan 28 12:00:00 2028
# Fingerprint (SHA-256):
EB:D4:10:40:E4:BB:3E:C7:42:C9:E3:81:D3:1E:F2:A4:1A:48:B6:68:5C:96:E7:CE:F3:C1:DF:6C:D4:33:1C:99
# Fingerprint (SHA1): B1:BC:96:8B:D4:F4:9D:62:2A:A8:9A:81:F2:15:01:52:A4:1D:82:9C
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\261\274\226\213\324\364\235\142\052\250\232\201\362\025\001\122
\244\035\202\234
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\076\105\122\025\011\121\222\341\267\135\067\237\261\207\051\212
END
CKA_ISSUER MULTILINE_OCTAL
\060\127\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\020\060\016\006\003
\125\004\013\023\007\122\157\157\164\040\103\101\061\033\060\031
\006\003\125\004\003\023\022\107\154\157\142\141\154\123\151\147
\156\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\013\004\000\000\000\000\001\025\113\132\303\224
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
```

```
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Entrust.net Premium 2048 Secure Server CA"
#
# Issuer: CN=Entrust.net Certification Authority (2048),OU=(c) 1999 Entrust.net
Limited,OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.),O=Entrust.net
# Serial Number: 946069240 (0x3863def8)
# Subject: CN=Entrust.net Certification Authority (2048),OU=(c) 1999 Entrust.net
Limited,OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.),O=Entrust.net
# Not Valid Before: Fri Dec 24 17:50:51 1999
# Not Valid After : Tue Jul 24 14:15:12 2029
# Fingerprint (SHA-256):
6D:C4:71:72:E0:1C:BC:B0:BF:62:58:0D:89:5F:E2:B8:AC:9A:D4:F8:73:80:1E:0C:10:B9:C8:37:D2:1E:B1:77
# Fingerprint (SHA1):
 50:30:06:09:1D:97:D4:F5:AE:39:F7:CB:E7:92:7D:7D:65:2D:34:31
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust.net Premium 2048 Secure Server CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\264\061\024\060\022\006\003\125\004\012\023\013\105\156
\164\162\165\163\164\056\156\145\164\061\100\060\076\006\003\125
\004\013\024\067\167\167\167\056\145\156\164\162\165\163\164\056
\156\145\164\057\103\120\123\137\062\060\064\070\040\151\156\143
\157\162\160\056\040\142\171\040\162\145\146\056\040\050\154\151
\155\151\164\163\040\154\151\141\142\056\051\061\045\060\043\006
\003\125\004\013\023\034\050\143\051\040\061\071\071\071\040\105
\156\164\162\165\163\164\056\156\145\164\040\114\151\155\151\164
\145\144\061\063\060\061\006\003\125\004\003\023\052\105\156\164
\162\165\163\164\056\156\145\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
\040\050\062\060\064\070\051
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\264\061\024\060\022\006\003\125\004\012\023\013\105\156
\164\162\165\163\164\056\156\145\164\061\100\060\076\006\003\125
\004\013\024\067\167\167\167\056\145\156\164\162\165\163\164\056
\156\145\164\057\103\120\123\137\062\060\064\070\040\151\156\143
\157\162\160\056\040\142\171\040\162\145\146\056\040\050\154\151
\155\151\164\163\040\154\151\141\142\056\051\061\045\060\043\006
\003\125\004\013\023\034\050\143\051\040\061\071\071\071\040\105
```

\156\164\162\165\163\164\056\156\145\164\040\114\151\155\151\164
\145\144\061\063\060\061\006\003\125\004\003\023\052\105\156\164
\162\165\163\164\056\156\145\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
\040\050\062\060\064\070\051
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\070\143\336\370
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\052\060\202\003\022\240\003\002\001\002\002\004\070
\143\336\370\060\015\006\011\052\206\110\206\367\015\001\001\005
\005\000\060\201\264\061\024\060\022\006\003\125\004\012\023\013
\105\156\164\162\165\163\164\056\156\145\164\061\100\060\076\006
\003\125\004\013\024\067\167\167\167\056\145\156\164\162\165\163
\164\056\156\145\164\057\103\120\123\137\062\060\064\070\040\151
\156\143\157\162\160\056\040\142\171\040\162\145\146\056\040\050
\154\151\155\151\164\163\040\154\151\141\142\056\051\061\045\060
\043\006\003\125\004\013\023\034\050\143\051\040\061\071\071\071
\040\105\156\164\162\165\163\164\056\156\145\164\040\114\151\155
\151\164\145\144\061\063\060\061\006\003\125\004\003\023\052\105
\156\164\162\165\163\164\056\156\145\164\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\050\062\060\064\070\051\060\036\027\015\071\071\061
\062\062\064\061\067\065\060\065\061\132\027\015\062\071\060\067
\062\064\061\064\061\065\061\062\132\060\201\264\061\024\060\022
\006\003\125\004\012\023\013\105\156\164\162\165\163\164\056\156
\145\164\061\100\060\076\006\003\125\004\013\024\067\167\167\167
\056\145\156\164\162\165\163\164\056\156\145\164\057\103\120\123
\137\062\060\064\070\040\151\156\143\157\162\160\056\040\142\171
\040\162\145\146\056\040\050\154\151\155\151\164\163\040\154\151
\141\142\056\051\061\045\060\043\006\003\125\004\013\023\034\050
\143\051\040\061\071\071\071\040\105\156\164\162\165\163\164\056
\156\145\164\040\114\151\155\151\164\145\144\061\063\060\061\006
\003\125\004\003\023\052\105\156\164\162\165\163\164\056\156\145
\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040
\101\165\164\150\157\162\151\164\171\040\050\062\060\064\070\051
\060\202\001\042\060\015\006\011\052\206\110\206\367\015\001\001
\001\005\000\003\202\001\017\000\060\202\001\012\002\202\001\001
\000\255\115\113\251\022\206\262\352\243\040\007\025\026\144\052
\053\113\321\277\013\112\115\216\355\200\166\245\147\267\170\100
\300\163\102\310\150\300\333\123\053\335\136\270\166\230\065\223
\213\032\235\174\023\072\016\037\133\267\036\317\345\044\024\036
\261\201\251\215\175\270\314\153\113\003\361\002\014\334\253\245
\100\044\000\177\164\224\241\235\010\051\263\210\013\365\207\167
\235\125\315\344\303\176\327\152\144\253\205\024\206\225\133\227
\062\120\157\075\310\272\146\014\343\374\275\270\111\301\166\211
\111\031\375\300\250\275\211\243\147\057\306\237\274\161\031\140

\270\055\351\054\311\220\166\146\173\224\342\257\170\326\145\123
\135\074\326\234\262\317\051\003\371\057\244\120\262\324\110\316
\005\062\125\212\375\262\144\114\016\344\230\007\165\333\177\337
\271\010\125\140\205\060\051\371\173\110\244\151\206\343\065\077
\036\206\135\172\172\025\275\357\000\216\025\042\124\027\000\220
\046\223\274\016\111\150\221\277\370\107\323\235\225\102\301\016
\115\337\157\046\317\303\030\041\142\146\103\160\326\325\300\007
\341\002\003\001\000\001\243\102\060\100\060\016\006\003\125\035
\017\001\001\377\004\004\003\002\001\006\060\017\006\003\125\035
\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125
\035\016\004\026\004\024\125\344\201\321\021\200\276\330\211\271
\010\243\061\371\241\044\011\026\271\160\060\015\006\011\052\206
\110\206\367\015\001\001\005\005\000\003\202\001\001\000\073\233
\217\126\233\060\347\123\231\174\172\171\247\115\227\327\031\225
\220\373\006\037\312\063\174\106\143\217\226\146\044\372\100\033
\041\047\312\346\162\163\362\117\376\061\231\375\310\014\114\150
\123\306\200\202\023\230\372\266\255\332\135\075\361\316\156\366
\025\021\224\202\014\356\077\225\257\021\253\017\327\057\336\037
\003\217\127\054\036\311\273\232\032\104\225\353\030\117\246\037
\315\175\127\020\057\233\004\011\132\204\265\156\330\035\072\341
\326\236\321\154\171\136\171\034\024\305\343\320\114\223\073\145
\074\355\337\075\276\246\345\225\032\303\265\031\303\275\136\133
\273\377\043\357\150\031\313\022\223\047\134\003\055\157\060\320
\036\266\032\254\336\132\367\321\252\250\047\246\376\171\201\304
\171\231\063\127\272\022\260\251\340\102\154\223\312\126\336\376
\155\204\013\010\213\176\215\352\327\230\041\306\363\347\074\171
\057\136\234\321\114\025\215\341\354\042\067\314\232\103\013\227
\334\200\220\215\263\147\233\157\110\010\025\126\317\277\361\053
\174\136\232\166\351\131\220\305\174\203\065\021\145\121
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Entrust.net Premium 2048 Secure Server CA"
Issuer: CN=Entrust.net Certification Authority (2048),OU=(c) 1999 Entrust.net
Limited,OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.),O=Entrust.net
Serial Number: 946069240 (0x3863def8)
Subject: CN=Entrust.net Certification Authority (2048),OU=(c) 1999 Entrust.net
Limited,OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.),O=Entrust.net
Not Valid Before: Fri Dec 24 17:50:51 1999
Not Valid After : Tue Jul 24 14:15:12 2029
Fingerprint (SHA-256):
6D:C4:71:72:E0:1C:BC:B0:BF:62:58:0D:89:5F:E2:B8:AC:9A:D4:F8:73:80:1E:0C:10:B9:C8:37:D2:1E:B1:77
#
 Fingerprint (SHA1): 50:30:06:09:1D:97:D4:F5:AE:39:F7:CB:E7:92:7D:7D:65:2D:34:31
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

```
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust.net Premium 2048 Secure Server CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\120\060\006\011\035\227\324\365\256\071\367\313\347\222\175\175
\145\055\064\061
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\356\051\061\274\062\176\232\346\350\265\367\121\264\064\161\220
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\264\061\024\060\022\006\003\125\004\012\023\013\105\156
\164\162\165\163\164\056\156\145\164\061\100\060\076\006\003\125
\004\013\024\067\167\167\167\056\145\156\164\162\165\163\164\056
\156\145\164\057\103\120\123\137\062\060\064\070\040\151\156\143
\157\162\160\056\040\142\171\040\162\145\146\056\040\050\154\151
\155\151\164\163\040\154\151\141\142\056\051\061\045\060\043\006
\003\125\004\013\023\034\050\143\051\040\061\071\071\071\040\105
\156\164\162\165\163\164\056\156\145\164\040\114\151\155\151\164
\145\144\061\063\060\061\006\003\125\004\003\023\052\105\156\164
\162\165\163\164\056\156\145\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
\040\050\062\060\064\070\051
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\004\070\143\336\370
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Baltimore CyberTrust Root"
#
# Issuer: CN=Baltimore CyberTrust Root,OU=CyberTrust,O=Baltimore,C=IE
# Serial Number: 33554617 (0x20000b9)
# Subject: CN=Baltimore CyberTrust Root,OU=CyberTrust,O=Baltimore,C=IE
# Not Valid Before: Fri May 12 18:46:00 2000
# Not Valid After : Mon May 12 23:59:00 2025
# Fingerprint (SHA-256):
16:AF:57:A9:F6:76:B0:AB:12:60:95:AA:5E:BA:DE:F2:2A:B3:11:19:D6:44:AC:95:CD:4B:93:DB:F3:F2:6A:EB
#
 Fingerprint (SHA1): D4:DE:20:D0:5E:66:FC:53:FE:1A:50:88:2C:78:DB:28:52:CA:E4:74
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
```

CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Baltimore CyberTrust Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\111\105\061
\022\060\020\006\003\125\004\012\023\011\102\141\154\164\151\155
\157\162\145\061\023\060\021\006\003\125\004\013\023\012\103\171
\142\145\162\124\162\165\163\164\061\042\060\040\006\003\125\004
\003\023\031\102\141\154\164\151\155\157\162\145\040\103\171\142
\145\162\124\162\165\163\164\040\122\157\157\164
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\111\105\061
\022\060\020\006\003\125\004\012\023\011\102\141\154\164\151\155
\157\162\145\061\023\060\021\006\003\125\004\013\023\012\103\171
\142\145\162\124\162\165\163\164\061\042\060\040\006\003\125\004
\003\023\031\102\141\154\164\151\155\157\162\145\040\103\171\142
\145\162\124\162\165\163\164\040\122\157\157\164
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\004\002\000\000\271
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\167\060\202\002\137\240\003\002\001\002\002\004\002
\000\000\271\060\015\006\011\052\206\110\206\367\015\001\001\005
\005\000\060\132\061\013\060\011\006\003\125\004\006\023\002\111
\105\061\022\060\020\006\003\125\004\012\023\011\102\141\154\164
\151\155\157\162\145\061\023\060\021\006\003\125\004\013\023\012
\103\171\142\145\162\124\162\165\163\164\061\042\060\040\006\003
\125\004\003\023\031\102\141\154\164\151\155\157\162\145\040\103
\171\142\145\162\124\162\165\163\164\040\122\157\157\164\060\036
\027\015\060\060\060\065\061\062\061\070\064\066\060\060\132\027
\015\062\065\060\065\061\062\062\063\065\071\060\060\132\060\132
\061\013\060\011\006\003\125\004\006\023\002\111\105\061\022\060
\020\006\003\125\004\012\023\011\102\141\154\164\151\155\157\162
\145\061\023\060\021\006\003\125\004\013\023\012\103\171\142\145
\162\124\162\165\163\164\061\042\060\040\006\003\125\004\003\023
\031\102\141\154\164\151\155\157\162\145\040\103\171\142\145\162
\124\162\165\163\164\040\122\157\157\164\060\202\001\042\060\015
\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001
\017\000\060\202\001\012\002\202\001\001\000\243\004\273\042\253
\230\075\127\350\046\162\232\265\171\324\051\342\341\350\225\200
\261\260\343\133\216\053\051\232\144\337\241\135\355\260\011\005
\155\333\050\056\316\142\242\142\376\264\210\332\022\353\070\353
\041\235\300\101\053\001\122\173\210\167\323\034\217\307\272\271

\210\265\152\011\347\163\350\021\100\247\321\314\312\142\215\055
\345\217\013\246\120\322\250\120\303\050\352\365\253\045\207\212
\232\226\034\251\147\270\077\014\325\367\371\122\023\057\302\033
\325\160\160\360\217\300\022\312\006\313\232\341\331\312\063\172
\167\326\370\354\271\361\150\104\102\110\023\322\300\302\244\256
\136\140\376\266\246\005\374\264\335\007\131\002\324\131\030\230
\143\365\245\143\340\220\014\175\135\262\006\172\363\205\352\353
\324\003\256\136\204\076\137\377\025\355\151\274\371\071\066\162
\165\317\167\122\115\363\311\220\054\271\075\345\311\043\123\077
\037\044\230\041\134\007\231\051\275\306\072\354\347\156\206\072
\153\227\164\143\063\275\150\030\061\360\170\215\166\277\374\236
\216\135\052\206\247\115\220\334\047\032\071\002\003\001\000\001
\243\105\060\103\060\035\006\003\125\035\016\004\026\004\024\345
\235\131\060\202\107\130\314\254\372\010\124\066\206\173\072\265
\004\115\360\060\022\006\003\125\035\023\001\001\377\004\010\060
\006\001\001\377\002\001\003\060\016\006\003\125\035\017\001\001
\377\004\004\003\002\001\006\060\015\006\011\052\206\110\206\367
\015\001\001\005\005\000\003\202\001\001\000\205\014\135\216\344
\157\121\150\102\005\240\335\273\117\047\045\204\003\275\367\144
\375\055\327\060\343\244\020\027\353\332\051\051\266\171\077\166
\366\031\023\043\270\020\012\371\130\244\324\141\160\275\004\141
\152\022\212\027\325\012\275\305\274\060\174\326\351\014\045\215
\206\100\117\354\314\243\176\070\306\067\021\117\355\335\150\061
\216\114\322\263\001\164\356\276\165\136\007\110\032\177\160\377
\026\134\204\300\171\205\270\005\375\177\276\145\021\243\017\300
\002\264\370\122\067\071\004\325\251\061\172\030\277\240\052\364
\022\231\367\243\105\202\343\074\136\365\235\236\265\310\236\174
\056\310\244\236\116\010\024\113\155\375\160\155\153\032\143\275
\144\346\037\267\316\360\362\237\056\273\033\267\362\120\210\163
\222\302\342\343\026\215\232\062\002\253\216\030\335\351\020\021
\356\176\065\253\220\257\076\060\224\172\320\063\075\247\145\017
\365\374\216\236\142\317\107\104\054\001\135\273\035\265\062\322
\107\322\070\056\320\376\201\334\062\152\036\265\356\074\325\374
\347\201\035\031\303\044\102\352\143\071\251
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL
 CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Baltimore CyberTrust Root"
Issuer: CN=Baltimore CyberTrust Root,OU=CyberTrust,O=Baltimore,C=IE
Serial Number: 33554617 (0x20000b9)
Subject: CN=Baltimore CyberTrust Root,OU=CyberTrust,O=Baltimore,C=IE
Not Valid Before: Fri May 12 18:46:00 2000
Not Valid After : Mon May 12 23:59:00 2025
Fingerprint (SHA-256):

```
16:AF:57:A9:F6:76:B0:AB:12:60:95:AA:5E:BA:DE:F2:2A:B3:11:19:D6:44:AC:95:CD:4B:93:DB:F3:F2:6A:EB
# Fingerprint (SHA1): D4:DE:20:D0:5E:66:FC:53:FE:1A:50:88:2C:78:DB:28:52:CA:E4:74
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Baltimore CyberTrust Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\324\336\040\320\136\146\374\123\376\032\120\210\054\170\333\050
\122\312\344\164
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\254\266\224\245\234\027\340\327\221\122\233\261\227\006\246\344
END
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\111\105\061
\022\060\020\006\003\125\004\012\023\011\102\141\154\164\151\155
\157\162\145\061\023\060\021\006\003\125\004\013\023\012\103\171
\142\145\162\124\162\165\163\164\061\042\060\040\006\003\125\004
\003\023\031\102\141\154\164\151\155\157\162\145\040\103\171\142
\145\162\124\162\165\163\164\040\122\157\157\164
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\004\002\000\000\271
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Entrust Root Certification Authority"
#
# Issuer: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS is
incorporated by reference,O="Entrust, Inc.",C=US
# Serial Number: 1164660820 (0x456b5054)
# Subject: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS
 is incorporated by reference,O="Entrust, Inc.",C=US
# Not Valid Before: Mon Nov 27 20:23:42 2006
# Not Valid After : Fri Nov 27 20:53:42 2026
# Fingerprint (SHA-256):
73:C1:76:43:4F:1B:C6:D5:AD:F4:5B:0E:76:E7:27:28:7C:8D:E5:76:16:C1:E6:E6:14:1A:2B:2C:BC:7D:8E:4C
# Fingerprint (SHA1): B3:1E:B1:B7:40:E3:6C:84:02:DA:DC:37:D4:4D:F5:D4:67:49:52:F9
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "Entrust Root Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\260\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\071\060\067\006\003\125\004
\013\023\060\167\167\167\056\145\156\164\162\165\163\164\056\156
\145\164\057\103\120\123\040\151\163\040\151\156\143\157\162\160
\157\162\141\164\145\144\040\142\171\040\162\145\146\145\162\145
\156\143\145\061\037\060\035\006\003\125\004\013\023\026\050\143
\051\040\062\060\060\066\040\105\156\164\162\165\163\164\054\040
\111\156\143\056\061\055\060\053\006\003\125\004\003\023\044\105
\156\164\162\165\163\164\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\260\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\071\060\067\006\003\125\004
\013\023\060\167\167\167\056\145\156\164\162\165\163\164\056\156
\145\164\057\103\120\123\040\151\163\040\151\156\143\157\162\160
\157\162\141\164\145\144\040\142\171\040\162\145\146\145\162\145
\156\143\145\061\037\060\035\006\003\125\004\013\023\026\050\143
\051\040\062\060\060\066\040\105\156\164\162\165\163\164\054\040
\111\156\143\056\061\055\060\053\006\003\125\004\003\023\044\105
\156\164\162\165\163\164\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\004\105\153\120\124
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\221\060\202\003\171\240\003\002\001\002\002\004\105
\153\120\124\060\015\006\011\052\206\110\206\367\015\001\001\005
\005\000\060\201\260\061\013\060\011\006\003\125\004\006\023\002
\125\123\061\026\060\024\006\003\125\004\012\023\015\105\156\164
\162\165\163\164\054\040\111\156\143\056\061\071\060\067\006\003
\125\004\013\023\060\167\167\167\056\145\156\164\162\165\163\164
\056\156\145\164\057\103\120\123\040\151\163\040\151\156\143\157
\162\160\157\162\141\164\145\144\040\142\171\040\162\145\146\145
\162\145\156\143\145\061\037\060\035\006\003\125\004\013\023\026
\050\143\051\040\062\060\060\066\040\105\156\164\162\165\163\164
\054\040\111\156\143\056\061\055\060\053\006\003\125\004\003\023
```

\044\105\156\164\162\165\163\164\040\122\157\157\164\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171\060\036\027\015\060\066\061\061\062\067\062
\060\062\063\064\062\132\027\015\062\066\061\061\062\067\062\060
\065\063\064\062\132\060\201\260\061\013\060\011\006\003\125\004
\006\023\002\125\123\061\026\060\024\006\003\125\004\012\023\015
\105\156\164\162\165\163\164\054\040\111\156\143\056\061\071\060
\067\006\003\125\004\013\023\060\167\167\167\056\145\156\164\162
\165\163\164\056\156\145\164\057\103\120\123\040\151\163\040\151
\156\143\157\162\160\157\162\141\164\145\144\040\142\171\040\162
\145\146\145\162\145\156\143\145\061\037\060\035\006\003\125\004
\013\023\026\050\143\051\040\062\060\060\066\040\105\156\164\162
\165\163\164\054\040\111\156\143\056\061\055\060\053\006\003\125
\004\003\023\044\105\156\164\162\165\163\164\040\122\157\157\164
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\060\202\001\042\060\015\006\011
\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017\000
\060\202\001\012\002\202\001\001\000\266\225\266\103\102\372\306
\155\052\157\110\337\224\114\071\127\005\356\303\171\021\101\150
\066\355\354\376\232\001\217\241\070\050\374\367\020\106\146\056
\115\036\032\261\032\116\306\321\300\225\210\260\311\377\061\213
\063\003\333\267\203\173\076\040\204\136\355\262\126\050\247\370
\340\271\100\161\067\305\313\107\016\227\052\150\300\042\225\142
\025\333\107\331\365\320\053\377\202\113\311\255\076\336\114\333
\220\200\120\077\011\212\204\000\354\060\012\075\030\315\373\375
\052\131\232\043\225\027\054\105\236\037\156\103\171\155\014\134
\230\376\110\247\305\043\107\134\136\375\156\347\036\264\366\150
\105\321\206\203\133\242\212\215\261\343\051\200\376\045\161\210
\255\276\274\217\254\122\226\113\252\121\215\344\023\061\031\350
\116\115\237\333\254\263\152\325\274\071\124\161\312\172\172\177
\220\335\175\035\200\331\201\273\131\046\302\021\376\346\223\342
\367\200\344\145\373\064\067\016\051\200\160\115\257\070\206\056
\236\177\127\257\236\027\256\353\034\313\050\041\137\266\034\330
\347\242\004\042\371\323\332\330\313\002\003\001\000\001\243\201
\260\060\201\255\060\016\006\003\125\035\017\001\001\377\004\004
\003\002\001\006\060\017\006\003\125\035\023\001\001\377\004\005
\060\003\001\001\377\060\053\006\003\125\035\020\004\044\060\042
\200\017\062\060\060\066\061\061\062\067\062\060\062\063\064\062
\132\201\017\062\060\062\066\061\061\062\067\062\060\065\063\064
\062\132\060\037\006\003\125\035\043\004\030\060\026\200\024\150
\220\344\147\244\246\123\200\307\206\146\244\361\367\113\103\373
\204\275\155\060\035\006\003\125\035\016\004\026\004\024\150\220
\344\147\244\246\123\200\307\206\146\244\361\367\113\103\373\204
\275\155\060\035\006\011\052\206\110\206\366\175\007\101\000\004
\020\060\016\033\010\126\067\056\061\072\064\056\060\003\002\004
\220\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000
\003\202\001\001\000\223\324\060\260\327\003\040\052\320\371\143
\350\221\014\005\040\251\137\031\312\173\162\116\324\261\333\320

\226\373\124\132\031\054\014\010\367\262\274\205\250\235\177\155
\073\122\263\052\333\347\324\204\214\143\366\017\313\046\001\221
\120\154\364\137\024\342\223\164\300\023\236\060\072\120\343\264
\140\305\034\360\042\104\215\161\107\254\310\032\311\351\233\232
\000\140\023\377\160\176\137\021\115\111\033\263\025\122\173\311
\124\332\277\235\225\257\153\232\330\236\351\361\344\103\215\342
\021\104\072\277\257\275\203\102\163\122\213\252\273\247\051\317
\365\144\034\012\115\321\274\252\254\237\052\320\377\177\177\332
\175\352\261\355\060\045\301\204\332\064\322\133\170\203\126\354
\234\066\303\046\342\021\366\147\111\035\222\253\214\373\353\377
\172\356\205\112\247\120\200\360\247\134\112\224\056\137\005\231
\074\122\101\340\315\264\143\317\001\103\272\234\203\334\217\140
\073\363\132\264\264\173\256\332\013\220\070\165\357\201\035\146
\322\367\127\160\066\263\277\374\050\257\161\045\205\133\023\376
\036\177\132\264\074
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Entrust Root Certification Authority"
Issuer: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS is incorporated by reference,O="Entrust, Inc.",C=US
Serial Number: 1164660820 (0x456b5054)
Subject: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS is incorporated by reference,O="Entrust, Inc.",C=US
Not Valid Before: Mon Nov 27 20:23:42 2006
Not Valid After : Fri Nov 27 20:53:42 2026
Fingerprint (SHA-256):
73:C1:76:43:4F:1B:C6:D5:AD:F4:5B:0E:76:E7:27:28:7C:8D:E5:76:16:C1:E6:E6:14:1A:2B:2C:BC:7D:8E:4C
Fingerprint (SHA1): B3:1E:B1:B7:40:E3:6C:84:02:DA:DC:37:D4:4D:F5:D4:67:49:52:F9
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority"
CKA_CERT_SHA1_HASH
 MULTILINE_OCTAL
\263\036\261\267\100\343\154\204\002\332\334\067\324\115\365\324
\147\111\122\371
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\326\245\303\355\135\335\076\000\301\075\207\222\037\035\077\344
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\260\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165

```
\163\164\054\040\111\156\143\056\061\071\060\067\006\003\125\004
\013\023\060\167\167\167\056\145\156\164\162\165\163\164\056\156
\145\164\057\103\120\123\040\151\163\040\151\156\143\157\162\160
\157\162\141\164\145\144\040\142\171\040\162\145\146\145\162\145
\156\143\145\061\037\060\035\006\003\125\004\013\023\026\050\143
\051\040\062\060\060\066\040\105\156\164\162\165\163\164\054\040
\111\156\143\056\061\055\060\053\006\003\125\004\003\023\044\105
\156\164\162\165\163\164\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\004\105\153\120\124
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Certum Root CA"
#
# Issuer: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL
# Serial Number: 65568 (0x10020)
# Subject: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL
# Not Valid Before: Tue Jun 11 10:46:39 2002
# Not Valid After : Fri Jun 11 10:46:39 2027
# Fingerprint (SHA-256):
D8:E0:FE:BC:1D:B2:E3:8D:00:94:0F:37:D2:7D:41:34:4D:99:3E:73:4B:99:D5:65:6D:97:78:D4:D8:14:36:24
# Fingerprint (SHA1): 62:52:DC:40:F7:11:43:A2:2F:DE:9E:F7:34:8E:06:42:51:B1:81:18
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\076\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\033\060\031\006\003\125\004\012\023\022\125\156\151\172\145\164
\157\040\123\160\056\040\172\040\157\056\157\056\061\022\060\020
\006\003\125\004\003\023\011\103\145\162\164\165\155\040\103\101
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\076\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\033\060\031\006\003\125\004\012\023\022\125\156\151\172\145\164
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\157\040\123\160\056\040\172\040\157\056\157\056\061\022\060\020
\006\003\125\004\003\023\011\103\145\162\164\165\155\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\001\000\040
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\014\060\202\001\364\240\003\002\001\002\002\003\001
\000\040\060\015\006\011\052\206\110\206\367\015\001\001\005\005
\000\060\076\061\013\060\011\006\003\125\004\006\023\002\120\114
\061\033\060\031\006\003\125\004\012\023\022\125\156\151\172\145
\164\157\040\123\160\056\040\172\040\157\056\157\056\061\022\060
\020\006\003\125\004\003\023\011\103\145\162\164\165\155\040\103
\101\060\036\027\015\060\062\060\066\061\061\061\060\064\066\063
\071\132\027\015\062\067\060\066\061\061\061\060\064\066\063\071
\132\060\076\061\013\060\011\006\003\125\004\006\023\002\120\114
\061\033\060\031\006\003\125\004\012\023\022\125\156\151\172\145
\164\157\040\123\160\056\040\172\040\157\056\157\056\061\022\060
\020\006\003\125\004\003\023\011\103\145\162\164\165\155\040\103
\101\060\202\001\042\060\015\006\011\052\206\110\206\367\015\001
\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202\001
\001\000\316\261\301\056\323\117\174\315\045\316\030\076\117\304
\214\157\200\152\163\310\133\121\370\233\322\334\273\000\134\261
\240\374\165\003\356\201\360\210\356\043\122\351\346\025\063\215
\254\055\011\305\166\371\053\071\200\211\344\227\113\220\245\250
\170\370\163\103\173\244\141\260\330\130\314\341\154\146\176\234
\363\011\136\125\143\204\325\250\357\363\261\056\060\150\263\304
\074\330\254\156\215\231\132\220\116\064\334\066\232\217\201\210
\120\267\155\226\102\011\363\327\225\203\015\101\113\260\152\153
\370\374\017\176\142\237\147\304\355\046\137\020\046\017\010\117
\360\244\127\050\316\217\270\355\105\366\156\356\045\135\252\156
\071\276\344\223\057\331\107\240\162\353\372\246\133\257\312\123
\077\342\016\306\226\126\021\156\367\351\146\251\046\330\177\225
\123\355\012\205\210\272\117\051\245\102\214\136\266\374\205\040
\000\252\150\013\241\032\205\001\234\304\106\143\202\210\266\042
\261\356\376\252\106\131\176\317\065\054\325\266\332\135\367\110
\063\024\124\266\353\331\157\316\315\210\326\253\033\332\226\073
\035\131\002\003\001\000\001\243\023\060\021\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\015\006\011
\052\206\110\206\367\015\001\001\005\005\000\003\202\001\001\000
\270\215\316\357\347\024\272\317\356\260\104\222\154\264\071\076
\242\204\156\255\270\041\167\322\324\167\202\207\346\040\101\201
\356\342\370\021\267\143\321\027\067\276\031\166\044\034\004\032
\114\353\075\252\147\157\055\324\315\376\145\061\160\305\033\246
\002\012\272\140\173\155\130\302\232\111\376\143\062\013\153\343
\072\300\254\253\073\260\350\323\011\121\214\020\203\306\064\340
\305\053\340\032\266\140\024\047\154\062\167\214\274\262\162\230
\317\315\314\077\271\310\044\102\024\326\127\374\346\046\103\251

\035\345\200\220\316\003\124\050\076\367\077\323\370\115\355\152
\012\072\223\023\233\073\024\043\023\143\234\077\321\207\047\171
\345\114\121\343\001\255\205\135\032\073\261\325\163\020\244\323
\362\274\156\144\365\132\126\220\250\307\016\114\164\017\056\161
\073\367\310\107\364\151\157\025\362\021\136\203\036\234\174\122
\256\375\002\332\022\250\131\147\030\333\274\160\335\233\261\151
\355\200\316\211\100\110\152\016\065\312\051\146\025\041\224\054
\350\140\052\233\205\112\100\363\153\212\044\354\006\026\054\163
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Certum Root CA"
# Issuer:
 CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL
# Serial Number: 65568 (0x10020)
# Subject: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL
# Not Valid Before: Tue Jun 11 10:46:39 2002
# Not Valid After : Fri Jun 11 10:46:39 2027
# Fingerprint (SHA-256):
D8:E0:FE:BC:1D:B2:E3:8D:00:94:0F:37:D2:7D:41:34:4D:99:3E:73:4B:99:D5:65:6D:97:78:D4:D8:14:36:24
Fingerprint (SHA1): 62:52:DC:40:F7:11:43:A2:2F:DE:9E:F7:34:8E:06:42:51:B1:81:18
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\142\122\334\100\367\021\103\242\057\336\236\367\064\216\006\102
\121\261\201\030
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\054\217\237\146\035\030\220\261\107\046\235\216\206\202\214\251
END
CKA_ISSUER MULTILINE_OCTAL
\060\076\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\033\060\031\006\003\125\004\012\023\022\125\156\151\172\145\164
\157\040\123\160\056\040\172\040\157\056\157\056\061\022\060\020
\006\003\125\004\003\023\011\103\145\162\164\165\155\040\103\101
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\003\001\000\040
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

```
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Comodo AAA Services root"
#
# Issuer: CN=AAA Certificate Services,O=Comodo CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Serial Number: 1 (0x1)
# Subject: CN=AAA Certificate Services,O=Comodo CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Thu Jan 01 00:00:00 2004
# Not Valid After : Sun Dec 31 23:59:59 2028
# Fingerprint (SHA-256):
D7:A7:A0:FB:5D:7E:27:31:D7:71:E9:48:4E:BC:DE:F7:1D:5F:0C:3E:0A:29:48:78:2B:C8:3E:E0:EA:69:9E:F4
# Fingerprint (SHA1): D1:EB:23:A4:6D:17:D6:8F:D9:25:64:C2:F1:F1:60:17:64:D8:E3:49
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE
 CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Comodo AAA Services root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\173\061\013\060\011\006\003\125\004\006\023\002\107\102\061
\033\060\031\006\003\125\004\010\014\022\107\162\145\141\164\145
\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060\016
\006\003\125\004\007\014\007\123\141\154\146\157\162\144\061\032
\060\030\006\003\125\004\012\014\021\103\157\155\157\144\157\040
\103\101\040\114\151\155\151\164\145\144\061\041\060\037\006\003
\125\004\003\014\030\101\101\101\040\103\145\162\164\151\146\151
\143\141\164\145\040\123\145\162\166\151\143\145\163
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\173\061\013\060\011\006\003\125\004\006\023\002\107\102\061
\033\060\031\006\003\125\004\010\014\022\107\162\145\141\164\145
\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060\016
\006\003\125\004\007\014\007\123\141\154\146\157\162\144\061\032
\060\030\006\003\125\004\012\014\021\103\157\155\157\144\157\040
\103\101\040\114\151\155\151\164\145\144\061\041\060\037\006\003
\125\004\003\014\030\101\101\101\040\103\145\162\164\151\146\151
\143\141\164\145\040\123\145\162\166\151\143\145\163
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\062\060\202\003\032\240\003\002\001\002\002\001\001
```

\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\173\061\013\060\011\006\003\125\004\006\023\002\107\102\061\033
\060\031\006\003\125\004\010\014\022\107\162\145\141\164\145\162
\040\115\141\156\143\150\145\163\164\145\162\061\020\060\016\006
\003\125\004\007\014\007\123\141\154\146\157\162\144\061\032\060
\030\006\003\125\004\012\014\021\103\157\155\157\144\157\040\103
\101\040\114\151\155\151\164\145\144\061\041\060\037\006\003\125
\004\003\014\030\101\101\101\040\103\145\162\164\151\146\151\143
\141\164\145\040\123\145\162\166\151\143\145\163\060\036\027\015
\060\064\060\061\060\061\060\060\060\060\060\060\132\027\015\062
\070\061\062\063\061\062\063\065\071\065\071\132\060\173\061\013
\060\011\006\003\125\004\006\023\002\107\102\061\033\060\031\006
\003\125\004\010\014\022\107\162\145\141\164\145\162\040\115\141
\156\143\150\145\163\164\145\162\061\020\060\016\006\003\125\004
\007\014\007\123\141\154\146\157\162\144\061\032\060\030\006\003
\125\004\012\014\021\103\157\155\157\144\157\040\103\101\040\114
\151\155\151\164\145\144\061\041\060\037\006\003\125\004\003\014
\030\101\101\101\040\103\145\162\164\151\146\151\143\141\164\145
\040\123\145\162\166\151\143\145\163\060\202\001\042\060\015\006
\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017
\000\060\202\001\012\002\202\001\001\000\276\100\235\364\156\341
\352\166\207\034\115\105\104\216\276\106\310\203\006\235\301\052
\376\030\037\216\344\002\372\363\253\135\120\212\026\061\013\232
\006\320\305\160\042\315\111\055\124\143\314\266\156\150\106\013
\123\352\313\114\044\300\274\162\116\352\361\025\256\364\124\232
\022\012\303\172\262\063\140\342\332\211\125\363\042\130\363\336
\334\317\357\203\206\242\214\224\117\237\150\362\230\220\106\204
\047\307\166\277\343\314\065\054\213\136\007\144\145\202\300\110
\260\250\221\371\141\237\166\040\120\250\221\307\146\265\353\170
\142\003\126\360\212\032\023\352\061\243\036\240\231\375\070\366
\366\047\062\130\157\007\365\153\270\373\024\053\257\267\252\314
\326\143\137\163\214\332\005\231\250\070\250\313\027\170\066\121
\254\351\236\364\170\072\215\317\017\331\102\342\230\014\253\057
\237\016\001\336\357\237\231\111\361\055\337\254\164\115\033\230
\265\107\305\345\051\321\371\220\030\307\142\234\276\203\307\046
\173\076\212\045\307\300\335\235\346\065\150\020\040\235\217\330
\336\322\303\204\234\015\136\350\057\311\002\003\001\000\001\243
\201\300\060\201\275\060\035\006\003\125\035\016\004\026\004\024
\240\021\012\043\076\226\361\007\354\342\257\051\357\202\245\177
\320\060\244\264\060\016\006\003\125\035\017\001\001\377\004\004
\003\002\001\006\060\017\006\003\125\035\023\001\001\377\004\005
\060\003\001\001\377\060\173\006\003\125\035\037\004\164\060\162
\060\070\240\066\240\064\206\062\150\164\164\160\072\057\057\143
\162\154\056\143\157\155\157\144\157\143\141\056\143\157\155\057
\101\101\101\103\145\162\164\151\146\151\143\141\164\145\123\145
\162\166\151\143\145\163\056\143\162\154\060\066\240\064\240\062
\206\060\150\164\164\160\072\057\057\143\162\154\056\143\157\155
\157\144\157\056\156\145\164\057\101\101\101\103\145\162\164\151

\146\151\143\141\164\145\123\145\162\166\151\143\145\163\056\143
\162\154\060\015\006\011\052\206\110\206\367\015\001\001\005\005
\000\003\202\001\001\000\010\126\374\002\360\233\350\377\244\372
\326\173\306\104\200\316\117\304\305\366\000\130\314\246\266\274
\024\111\150\004\166\350\346\356\135\354\002\017\140\326\215\120
\030\117\046\116\001\343\346\260\245\356\277\274\164\124\101\277
\375\374\022\270\307\117\132\364\211\140\005\177\140\267\005\112
\363\366\361\302\277\304\271\164\206\266\055\175\153\314\322\363
\106\335\057\306\340\152\303\303\064\003\054\175\226\335\132\302
\016\247\012\231\301\005\213\253\014\057\363\134\072\317\154\067
\125\011\207\336\123\100\154\130\357\374\266\253\145\156\004\366
\033\334\074\340\132\025\306\236\331\361\131\110\060\041\145\003
\154\354\351\041\163\354\233\003\241\340\067\255\240\025\030\217
\372\272\002\316\247\054\251\020\023\054\324\345\010\046\253\042
\227\140\370\220\136\164\324\242\232\123\275\362\251\150\340\242
\156\302\327\154\261\243\017\236\277\353\150\347\126\362\256\362
\343\053\070\072\011\201\265\153\205\327\276\055\355\077\032\267
\262\143\342\365\142\054\202\324\152\000\101\120\361\071\203\237
\225\351\066\226\230\156
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Comodo AAA Services root"
Issuer: CN=AAA Certificate Services,O=Comodo CA Limited,L=Salford,ST=Greater Manchester,C=GB
Serial Number:
 1 (0x1)
Subject: CN=AAA Certificate Services,O=Comodo CA Limited,L=Salford,ST=Greater Manchester,C=GB
Not Valid Before: Thu Jan 01 00:00:00 2004
Not Valid After : Sun Dec 31 23:59:59 2028
Fingerprint (SHA-256):
D7:A7:A0:FB:5D:7E:27:31:D7:71:E9:48:4E:BC:DE:F7:1D:5F:0C:3E:0A:29:48:78:2B:C8:3E:E0:EA:69:9E:F4
Fingerprint (SHA1): D1:EB:23:A4:6D:17:D6:8F:D9:25:64:C2:F1:F1:60:17:64:D8:E3:49
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Comodo AAA Services root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\321\353\043\244\155\027\326\217\331\045\144\302\361\361\140\027
\144\330\343\111
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\111\171\004\260\353\207\031\254\107\260\274\021\121\233\164\320
END
CKA_ISSUER MULTILINE_OCTAL

```
\060\173\061\013\060\011\006\003\125\004\006\023\002\107\102\061
\033\060\031\006\003\125\004\010\014\022\107\162\145\141\164\145
\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060\016
\006\003\125\004\007\014\007\123\141\154\146\157\162\144\061\032
\060\030\006\003\125\004\012\014\021\103\157\155\157\144\157\040
\103\101\040\114\151\155\151\164\145\144\061\041\060\037\006\003
\125\004\003\014\030\101\101\101\040\103\145\162\164\151\146\151
\143\141\164\145\040\123\145\162\166\151\143\145\163
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "QuoVadis Root CA 2"
#
# Issuer: CN=QuoVadis Root CA 2,O=QuoVadis Limited,C=BM
# Serial Number: 1289 (0x509)
# Subject: CN=QuoVadis Root CA 2,O=QuoVadis Limited,C=BM
# Not Valid Before: Fri Nov 24 18:27:00 2006
# Not Valid After : Mon Nov 24 18:23:33 2031
# Fingerprint (SHA-256):
85:A0:DD:7D:D7:20:AD:B7:FF:05:F8:3D:54:2B:20:9D:C7:FF:45:28:F7:D6:77:B1:83:89:FE:A5:E5:C4:9E:86
#
 Fingerprint (SHA1): CA:3A:FB:CF:12:40:36:4B:44:B2:16:20:88:80:48:39:19:93:7C:F7
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003
\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003
```

\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\005\011
END
CKA_VALUE
MULTILINE_OCTAL
\060\202\005\267\060\202\003\237\240\003\002\001\002\002\002\005
\011\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000
\060\105\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003
\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\062\060\036\027\015\060\066\061\061\062
\064\061\070\062\067\060\060\132\027\015\063\061\061\061\062\064
\061\070\062\063\063\063\132\060\105\061\013\060\011\006\003\125
\004\006\023\002\102\115\061\031\060\027\006\003\125\004\012\023
\020\121\165\157\126\141\144\151\163\040\114\151\155\151\164\145
\144\061\033\060\031\006\003\125\004\003\023\022\121\165\157\126
\141\144\151\163\040\122\157\157\164\040\103\101\040\062\060\202
\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005
\000\003\202\002\017\000\060\202\002\012\002\202\002\001\000\232
\030\312\113\224\015\000\055\257\003\051\212\360\017\201\310\256
\114\031\205\035\010\237\253\051\104\205\363\057\201\255\062\036
\220\106\277\243\206\046\032\036\376\176\034\030\072\134\234\140
\027\052\072\164\203\063\060\175\141\124\021\313\355\253\340\346
\322\242\176\365\153\157\030\267\012\013\055\375\351\076\357\012
\306\263\020\351\334\302\106\027\370\135\375\244\332\377\236\111
\132\234\346\063\346\044\226\367\077\272\133\053\034\172\065\302
\326\147\376\253\146\120\213\155\050\140\053\357\327\140\303\307
\223\274\215\066\221\363\177\370\333\021\023\304\234\167\166\301
\256\267\002\152\201\172\251\105\203\342\005\346\271\126\301\224
\067\217\110\161\143\042\354\027\145\007\225\212\113\337\217\306
\132\012\345\260\343\137\136\153\021\253\014\371\205\353\104\351
\370\004\163\362\351\376\134\230\214\365\163\257\153\264\176\315
\324\134\002\053\114\071\341\262\225\225\055\102\207\327\325\263
\220\103\267\154\023\361\336\335\366\304\370\211\077\321\165\365
\222\303\221\325\212\210\320\220\354\334\155\336\211\302\145\161
\226\213\015\003\375\234\277\133\026\254\222\333\352\376\171\174
\255\353\257\367\026\313\333\315\045\053\345\037\373\232\237\342
\121\314\072\123\014\110\346\016\275\311\264\166\006\122\346\021
\023\205\162\143\003\004\340\004\066\053\040\031\002\350\164\247
\037\266\311\126\146\360\165\045\334\147\301\016\141\140\210\263
\076\321\250\374\243\332\035\260\321\261\043\124\337\104\166\155
\355\101\330\301\262\042\266\123\034\337\065\035\334\241\167\052
\061\344\055\365\345\345\333\310\340\377\345\200\327\013\143\240
\377\063\241\017\272\054\025\025\352\227\263\322\242\265\276\362

\214\226\036\032\217\035\154\244\141\067\271\206\163\063\327\227
\226\236\043\175\202\244\114\201\342\241\321\272\147\137\225\007
\243\047\021\356\026\020\173\274\105\112\114\262\004\322\253\357
\325\375\014\121\316\120\152\010\061\371\221\332\014\217\144\134
\003\303\072\213\040\077\156\215\147\075\072\326\376\175\133\210
\311\136\373\314\141\334\213\063\167\323\104\062\065\011\142\004
\222\026\020\330\236\047\107\373\073\041\343\370\353\035\133\002
\003\001\000\001\243\201\260\060\201\255\060\017\006\003\125\035
\023\001\001\377\004\005\060\003\001\001\377\060\013\006\003\125
\035\017\004\004\003\002\001\006\060\035\006\003\125\035\016\004
\026\004\024\032\204\142\274\110\114\063\045\004\324\356\320\366
\003\304\031\106\321\224\153\060\156\006\003\125\035\043\004\147
\060\145\200\024\032\204\142\274\110\114\063\045\004\324\356\320
\366\003\304\031\106\321\224\153\241\111\244\107\060\105\061\013
\060\011\006\003\125\004\006\023\002\102\115\061\031\060\027\006
\003\125\004\012\023\020\121\165\157\126\141\144\151\163\040\114
\151\155\151\164\145\144\061\033\060\031\006\003\125\004\003\023
\022\121\165\157\126\141\144\151\163\040\122\157\157\164\040\103
\101\040\062\202\002\005\011\060\015\006\011\052\206\110\206\367
\015\001\001\005\005\000\003\202\002\001\000\076\012\026\115\237
\006\133\250\256\161\135\057\005\057\147\346\023\105\203\304\066
\366\363\300\046\014\015\265\107\144\135\370\264\162\311\106\245
\003\030\047\125\211\170\175\166\352\226\064\200\027\040\334\347
\203\370\215\374\007\270\332\137\115\056\147\262\204\375\331\104
\374\167\120\201\346\174\264\311\015\013\162\123\370\166\007\007
\101\107\226\014\373\340\202\046\223\125\214\376\042\037\140\145
\174\137\347\046\263\367\062\220\230\120\324\067\161\125\366\222
\041\170\367\225\171\372\370\055\046\207\146\126\060\167\246\067
\170\063\122\020\130\256\077\141\216\362\152\261\357\030\176\112
\131\143\312\215\242\126\325\247\057\274\126\037\317\071\301\342
\373\012\250\025\054\175\115\172\143\306\154\227\104\074\322\157
\303\112\027\012\370\220\322\127\242\031\121\245\055\227\101\332
\007\117\251\120\332\220\215\224\106\341\076\360\224\375\020\000
\070\365\073\350\100\341\264\156\126\032\040\314\157\130\215\355
\056\105\217\326\351\223\077\347\261\054\337\072\326\042\214\334
\204\273\042\157\320\370\344\306\071\351\004\210\074\303\272\353
\125\172\155\200\231\044\365\154\001\373\370\227\260\224\133\353
\375\322\157\361\167\150\015\065\144\043\254\270\125\241\003\321
\115\102\031\334\370\165\131\126\243\371\250\111\171\370\257\016
\271\021\240\174\267\152\355\064\320\266\046\142\070\032\207\014
\370\350\375\056\323\220\177\007\221\052\035\326\176\134\205\203
\231\260\070\010\077\351\136\371\065\007\344\311\142\156\127\177
\247\120\225\367\272\310\233\346\216\242\001\305\326\146\277\171
\141\363\074\034\341\271\202\134\135\240\303\351\330\110\275\031
\242\021\024\031\156\262\206\033\150\076\110\067\032\210\267\135
\226\136\234\307\357\047\142\010\342\221\031\134\322\361\041\335
\272\027\102\202\227\161\201\123\061\251\237\366\175\142\277\162
\341\243\223\035\314\212\046\132\011\070\320\316\327\015\200\026

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\264\170\245\072\207\114\215\212\245\325\106\227\362\054\020\271
\274\124\042\300\001\120\151\103\236\364\262\357\155\370\354\332
\361\343\261\357\337\221\217\124\052\013\045\301\046\031\304\122
\020\005\145\325\202\020\352\302\061\315\056
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "QuoVadis Root CA 2"
# Issuer: CN=QuoVadis Root CA 2,O=QuoVadis Limited,C=BM
# Serial Number: 1289 (0x509)
# Subject: CN=QuoVadis Root CA 2,O=QuoVadis Limited,C=BM
# Not Valid Before: Fri Nov 24 18:27:00 2006
# Not Valid After : Mon Nov 24 18:23:33 2031
# Fingerprint (SHA-256):
85:A0:DD:7D:D7:20:AD:B7:FF:05:F8:3D:54:2B:20:9D:C7:FF:45:28:F7:D6:77:B1:83:89:FE:A5:E5:C4:9E:86
# Fingerprint (SHA1): CA:3A:FB:CF:12:40:36:4B:44:B2:16:20:88:80:48:39:19:93:7C:F7
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\312\072\373\317\022\100\066\113\104\262\026\040\210\200\110\071
\031\223\174\367
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\136\071\173\335\370\272\354\202\351\254\142\272\014\124\000\053
END
CKA_ISSUER
 MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003
\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\005\011
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
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# Certificate "QuoVadis Root CA 3"
#
# Issuer: CN=QuoVadis Root CA 3,O=QuoVadis Limited,C=BM
# Serial Number: 1478 (0x5c6)
# Subject: CN=QuoVadis Root CA 3,O=QuoVadis Limited,C=BM
# Not Valid Before: Fri Nov 24 19:11:23 2006
# Not Valid After : Mon Nov 24 19:06:44 2031
# Fingerprint (SHA-256):
18:F1:FC:7F:20:5D:F8:AD:DD:EB:7F:E0:07:DD:57:E3:AF:37:5A:9C:4D:8D:73:54:6B:F4:F1:FE:D1:E1:8D:35
# Fingerprint
 (SHA1): 1F:49:14:F7:D8:74:95:1D:DD:AE:02:C0:BE:FD:3A:2D:82:75:51:85
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003
\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003
\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\005\306
END
CKA_VALUE
 MULTILINE_OCTAL
\060\202\006\235\060\202\004\205\240\003\002\001\002\002\002\005
\306\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000
\060\105\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003
\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\063\060\036\027\015\060\066\061\061\062
\064\061\071\061\061\062\063\132\027\015\063\061\061\061\062\064
\061\071\060\066\064\064\132\060\105\061\013\060\011\006\003\125
\004\006\023\002\102\115\061\031\060\027\006\003\125\004\012\023
\020\121\165\157\126\141\144\151\163\040\114\151\155\151\164\145
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\144\061\033\060\031\006\003\125\004\003\023\022\121\165\157\126
\141\144\151\163\040\122\157\157\164\040\103\101\040\063\060\202
\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005
\000\003\202\002\017\000\060\202\002\012\002\202\002\001\000\314
\127\102\026\124\234\346\230\323\323\115\356\376\355\307\237\103
\071\112\145\263\350\026\210\064\333\015\131\221\164\317\222\270
\004\100\255\002\113\061\253\274\215\221\150\330\040\016\032\001
\342\032\173\116\027\135\342\212\267\077\231\032\315\353\141\253
\302\145\246\037\267\267\275\267\217\374\375\160\217\013\240\147
\276\001\242\131\317\161\346\017\051\166\377\261\126\171\105\053
\037\236\172\124\350\243\051\065\150\244\001\117\017\244\056\067
\357\033\277\343\217\020\250\162\253\130\127\347\124\206\310\311
\363\133\332\054\332\135\216\156\074\243\076\332\373\202\345\335
\362\134\262\005\063\157\212\066\316\320\023\116\377\277\112\014
\064\114\246\303\041\275\120\004\125\353\261\273\235\373\105\036
\144\025\336\125\001\214\002\166\265\313\241\077\102\151\274\057
\275\150\103\026\126\211\052\067\141\221\375\246\256\116\300\313
\024\145\224\067\113\222\006\357\004\320\310\234\210\333\013\173
\201\257\261\075\052\304\145\072\170\266\356\334\200\261\322\323
\231\234\072\356\153\132\153\263\215\267\325\316\234\302\276\245
\113\057\026\261\236\150\073\006\157\256\175\237\370\336\354\314
\051\247\230\243\045\103\057\357\361\137\046\341\210\115\370\136
\156\327\331\024\156\031\063\151\247\073\204\211\223\304\123\125
\023\241\121\170\100\370\270\311\242\356\173\272\122\102\203\236
\024\355\005\122\132\131\126\247\227\374\235\077\012\051\330\334
\117\221\016\023\274\336\225\244\337\213\231\276\254\233\063\210
\357\265\201\257\033\306\042\123\310\366\307\356\227\024\260\305
\174\170\122\310\360\316\156\167\140\204\246\351\052\166\040\355
\130\001\027\060\223\351\032\213\340\163\143\331\152\222\224\111
\116\264\255\112\205\304\243\042\060\374\011\355\150\042\163\246
\210\014\125\041\130\305\341\072\237\052\335\312\341\220\340\331
\163\253\154\200\270\350\013\144\223\240\234\214\031\377\263\322
\014\354\221\046\207\212\263\242\341\160\217\054\012\345\315\155
\150\121\353\332\077\005\177\213\062\346\023\134\153\376\137\100
\342\042\310\264\264\144\117\326\272\175\110\076\250\151\014\327
\273\206\161\311\163\270\077\073\235\045\113\332\377\100\353\002
\003\001\000\001\243\202\001\225\060\202\001\221\060\017\006\003
\125\035\023\001\001\377\004\005\060\003\001\001\377\060\201\341
\006\003\125\035\040\004\201\331\060\201\326\060\201\323\006\011
\053\006\001\004\001\276\130\000\003\060\201\305\060\201\223\006
\010\053\006\001\005\005\007\002\002\060\201\206\032\201\203\101
\156\171\040\165\163\145\040\157\146\040\164\150\151\163\040\103
\145\162\164\151\146\151\143\141\164\145\040\143\157\156\163\164
\151\164\165\164\145\163\040\141\143\143\145\160\164\141\156\143
\145\040\157\146\040\164\150\145\040\121\165\157\126\141\144\151
\163\040\122\157\157\164\040\103\101\040\063\040\103\145\162\164
\151\146\151\143\141\164\145\040\120\157\154\151\143\171\040\057
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\120

\162\141\143\164\151\143\145\040\123\164\141\164\145\155\145\156
\164\056\060\055\006\010\053\006\001\005\005\007\002\001\026\041
\150\164\164\160\072\057\057\167\167\167\056\161\165\157\166\141
\144\151\163\147\154\157\142\141\154\056\143\157\155\057\143\160
\163\060\013\006\003\125\035\017\004\004\003\002\001\006\060\035
\006\003\125\035\016\004\026\004\024\362\300\023\340\202\103\076
\373\356\057\147\062\226\065\134\333\270\313\002\320\060\156\006
\003\125\035\043\004\147\060\145\200\024\362\300\023\340\202\103
\076\373\356\057\147\062\226\065\134\333\270\313\002\320\241\111
\244\107\060\105\061\013\060\011\006\003\125\004\006\023\002\102
\115\061\031\060\027\006\003\125\004\012\023\020\121\165\157\126
\141\144\151\163\040\114\151\155\151\164\145\144\061\033\060\031
\006\003\125\004\003\023\022\121\165\157\126\141\144\151\163\040
\122\157\157\164\040\103\101\040\063\202\002\005\306\060\015\006
\011\052\206\110\206\367\015\001\001\005\005\000\003\202\002\001
\000\117\255\240\054\114\372\300\362\157\367\146\125\253\043\064
\356\347\051\332\303\133\266\260\203\331\320\320\342\041\373\363
\140\247\073\135\140\123\047\242\233\366\010\042\052\347\277\240
\162\345\234\044\152\061\261\220\172\047\333\204\021\211\047\246
\167\132\070\327\277\254\206\374\356\135\203\274\006\306\321\167
\153\017\155\044\057\113\172\154\247\007\226\312\343\204\237\255
\210\213\035\253\026\215\133\146\027\331\026\364\213\200\322\335
\370\262\166\303\374\070\023\252\014\336\102\151\053\156\363\074
\353\200\047\333\365\246\104\015\237\132\125\131\013\325\015\122
\110\305\256\237\362\057\200\305\352\062\120\065\022\227\056\301
\341\377\361\043\210\121\070\237\362\146\126\166\347\017\121\227
\245\122\014\115\111\121\225\066\075\277\242\113\014\020\035\206
\231\114\252\363\162\021\223\344\352\366\233\332\250\135\247\115
\267\236\002\256\163\000\310\332\043\003\350\371\352\031\164\142
\000\224\313\042\040\276\224\247\131\265\202\152\276\231\171\172
\251\362\112\044\122\367\164\375\272\116\346\250\035\002\156\261
\015\200\104\301\256\323\043\067\137\273\205\174\053\222\056\350
\176\245\213\335\231\341\277\047\157\055\135\252\173\207\376\012
\335\113\374\216\365\046\344\156\160\102\156\063\354\061\236\173
\223\301\344\311\151\032\075\300\153\116\042\155\356\253\130\115
\306\320\101\301\053\352\117\022\207\136\353\105\330\154\365\230
\002\323\240\330\125\212\006\231\031\242\240\167\321\060\236\254
\314\165\356\203\365\260\142\071\317\154\127\342\114\322\221\013
\016\165\050\033\232\277\375\032\103\361\312\167\373\073\217\141
\270\151\050\026\102\004\136\160\052\034\041\330\217\341\275\043
\133\055\164\100\222\331\143\031\015\163\335\151\274\142\107\274
\340\164\053\262\353\175\276\101\033\265\300\106\305\241\042\313
\137\116\301\050\222\336\030\272\325\052\050\273\021\213\027\223
\230\231\140\224\134\043\317\132\047\227\136\013\005\006\223\067
\036\073\151\066\353\251\236\141\035\217\062\332\216\014\326\164
\076\173\011\044\332\001\167\107\304\073\315\064\214\231\365\312
\341\045\141\063\262\131\033\342\156\327\067\127\266\015\251\022
\332

```
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER
 CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "QuoVadis Root CA 3"
# Issuer: CN=QuoVadis Root CA 3,O=QuoVadis Limited,C=BM
# Serial Number: 1478 (0x5c6)
# Subject: CN=QuoVadis Root CA 3,O=QuoVadis Limited,C=BM
# Not Valid Before: Fri Nov 24 19:11:23 2006
# Not Valid After : Mon Nov 24 19:06:44 2031
# Fingerprint (SHA-256):
18:F1:FC:7F:20:5D:F8:AD:DD:EB:7F:E0:07:DD:57:E3:AF:37:5A:9C:4D:8D:73:54:6B:F4:F1:FE:D1:E1:8D:35
# Fingerprint (SHA1): 1F:49:14:F7:D8:74:95:1D:DD:AE:02:C0:BE:FD:3A:2D:82:75:51:85
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\037\111\024\367\330\164\225\035\335\256\002\300\276\375\072\055
\202\165\121\205
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\061\205\074\142\224\227\143\271\252\375\211\116\257\157\340\317
END
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003
\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\063
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\002\005\306
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "XRamp Global CA Root"
#
# Issuer: CN=XRamp Global Certification Authority,O=XRamp Security Services
```

```
Inc,OU=www.xrampsecurity.com,C=US
# Serial Number:50:94:6c:ec:18:ea:d5:9c:4d:d5:97:ef:75:8f:a0:ad
# Subject: CN=XRamp Global Certification Authority,O=XRamp Security Services
Inc,OU=www.xrampsecurity.com,C=US
# Not Valid Before: Mon Nov 01 17:14:04 2004
# Not Valid After : Mon Jan 01 05:37:19 2035
# Fingerprint (SHA-256):
CE:CD:DC:90:50:99:D8:DA:DF:C5:B1:D2:09:B7:37:CB:E2:C1:8C:FB:2C:10:C0:FF:0B:CF:0D:32:86:FC:1A:A2
#
 Fingerprint (SHA1): B8:01:86:D1:EB:9C:86:A5:41:04:CF:30:54:F3:4C:52:B7:E5:58:C6
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "XRamp Global CA Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\036\060\034\006\003\125\004\013\023\025\167\167\167\056\170
\162\141\155\160\163\145\143\165\162\151\164\171\056\143\157\155
\061\044\060\042\006\003\125\004\012\023\033\130\122\141\155\160
\040\123\145\143\165\162\151\164\171\040\123\145\162\166\151\143
\145\163\040\111\156\143\061\055\060\053\006\003\125\004\003\023
\044\130\122\141\155\160\040\107\154\157\142\141\154\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\036\060\034\006\003\125\004\013\023\025\167\167\167\056\170
\162\141\155\160\163\145\143\165\162\151\164\171\056\143\157\155
\061\044\060\042\006\003\125\004\012\023\033\130\122\141\155\160
\040\123\145\143\165\162\151\164\171\040\123\145\162\166\151\143
\145\163\040\111\156\143\061\055\060\053\006\003\125\004\003\023
\044\130\122\141\155\160\040\107\154\157\142\141\154\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\120\224\154\354\030\352\325\234\115\325\227\357\165\217
\240\255
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\060\060\202\003\030\240\003\002\001\002\002\020\120
\224\154\354\030\352\325\234\115\325\227\357\165\217\240\255\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\201
```

\202\061\013\060\011\006\003\125\004\006\023\002\125\123\061\036
\060\034\006\003\125\004\013\023\025\167\167\167\056\170\162\141
\155\160\163\145\143\165\162\151\164\171\056\143\157\155\061\044
\060\042\006\003\125\004\012\023\033\130\122\141\155\160\040\123
\145\143\165\162\151\164\171\040\123\145\162\166\151\143\145\163
\040\111\156\143\061\055\060\053\006\003\125\004\003\023\044\130
\122\141\155\160\040\107\154\157\142\141\154\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171\060\036\027\015\060\064\061\061\060\061\061\067\061
\064\060\064\132\027\015\063\065\060\061\060\061\060\065\063\067
\061\071\132\060\201\202\061\013\060\011\006\003\125\004\006\023
\002\125\123\061\036\060\034\006\003\125\004\013\023\025\167\167
\167\056\170\162\141\155\160\163\145\143\165\162\151\164\171\056
\143\157\155\061\044\060\042\006\003\125\004\012\023\033\130\122
\141\155\160\040\123\145\143\165\162\151\164\171\040\123\145\162
\166\151\143\145\163\040\111\156\143\061\055\060\053\006\003\125
\004\003\023\044\130\122\141\155\160\040\107\154\157\142\141\154
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\060\202\001\042\060\015\006\011
\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017\000
\060\202\001\012\002\202\001\001\000\230\044\036\275\025\264\272
\337\307\214\245\047\266\070\013\151\363\266\116\250\054\056\041
\035\134\104\337\041\135\176\043\164\376\136\176\264\112\267\246
\255\037\256\340\006\026\342\233\133\331\147\164\153\135\200\217
\051\235\206\033\331\234\015\230\155\166\020\050\130\344\145\260
\177\112\230\171\237\340\303\061\176\200\053\265\214\300\100\073
\021\206\320\313\242\206\066\140\244\325\060\202\155\331\156\320
\017\022\004\063\227\137\117\141\132\360\344\371\221\253\347\035
\073\274\350\317\364\153\055\064\174\342\110\141\034\216\363\141
\104\314\157\240\112\251\224\260\115\332\347\251\064\172\162\070
\250\101\314\074\224\021\175\353\310\246\214\267\206\313\312\063
\073\331\075\067\213\373\172\076\206\054\347\163\327\012\127\254
\144\233\031\353\364\017\004\010\212\254\003\027\031\144\364\132
\045\042\215\064\054\262\366\150\035\022\155\323\212\036\024\332
\304\217\246\342\043\205\325\172\015\275\152\340\351\354\354\027
\273\102\033\147\252\045\355\105\203\041\374\301\311\174\325\142
\076\372\362\305\055\323\375\324\145\002\003\001\000\001\243\201
\237\060\201\234\060\023\006\011\053\006\001\004\001\202\067\024
\002\004\006\036\004\000\103\000\101\060\013\006\003\125\035\017
\004\004\003\002\001\206\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026
\004\024\306\117\242\075\006\143\204\011\234\316\142\344\004\254
\215\134\265\351\266\033\060\066\006\003\125\035\037\004\057\060
\055\060\053\240\051\240\047\206\045\150\164\164\160\072\057\057
\143\162\154\056\170\162\141\155\160\163\145\143\165\162\151\164
\171\056\143\157\155\057\130\107\103\101\056\143\162\154\060\020
\006\011\053\006\001\004\001\202\067\025\001\004\003\002\001\001
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\003

\202\001\001\000\221\025\071\003\001\033\147\373\112\034\371\012
\140\133\241\332\115\227\142\371\044\123\047\327\202\144\116\220
\056\303\111\033\053\232\334\374\250\170\147\065\361\035\360\021
\275\267\110\343\020\366\015\337\077\322\311\266\252\125\244\110
\272\002\333\336\131\056\025\133\073\235\026\175\107\327\067\352
\137\115\166\022\066\273\037\327\241\201\004\106\040\243\054\155
\251\236\001\176\077\051\316\000\223\337\375\311\222\163\211\211
\144\236\347\053\344\034\221\054\322\271\316\175\316\157\061\231
\323\346\276\322\036\220\360\011\024\171\134\043\253\115\322\332
\041\037\115\231\171\235\341\317\047\237\020\233\034\210\015\260
\212\144\101\061\270\016\154\220\044\244\233\134\161\217\272\273
\176\034\033\333\152\200\017\041\274\351\333\246\267\100\364\262
\213\251\261\344\357\232\032\320\075\151\231\356\250\050\243\341
\074\263\360\262\021\234\317\174\100\346\335\347\103\175\242\330
\072\265\251\215\362\064\231\304\324\020\341\006\375\011\204\020
\073\356\304\114\364\354\047\174\102\302\164\174\202\212\011\311
\264\003\045\274
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "XRamp Global CA Root"
Issuer: CN=XRamp Global Certification Authority,O=XRamp Security Services
Inc,OU=www.xrampsecurity.com,C=US
Serial Number:50:94:6c:ec:18:ea:d5:9c:4d:d5:97:ef:75:8f:a0:ad
Subject: CN=XRamp Global Certification Authority,O=XRamp Security Services
Inc,OU=www.xrampsecurity.com,C=US
Not Valid Before: Mon Nov 01 17:14:04 2004
Not Valid After : Mon Jan 01 05:37:19 2035
Fingerprint (SHA-256):
CE:CD:DC:90:50:99:D8:DA:DF:C5:B1:D2:09:B7:37:CB:E2:C1:8C:FB:2C:10:C0:FF:0B:CF:0D:32:86:FC:1A:A2
Fingerprint (SHA1): B8:01:86:D1:EB:9C:86:A5:41:04:CF:30:54:F3:4C:52:B7:E5:58:C6
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "XRamp Global CA Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\270\001\206\321\353\234\206\245\101\004\317\060\124\363\114\122
\267\345\130\306
END
CKA_CERT_MD5_HASH
 MULTILINE_OCTAL
\241\013\104\263\312\020\330\000\156\235\017\330\017\222\012\321
END
CKA_ISSUER MULTILINE_OCTAL

```
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\036\060\034\006\003\125\004\013\023\025\167\167\167\056\170
\162\141\155\160\163\145\143\165\162\151\164\171\056\143\157\155
\061\044\060\042\006\003\125\004\012\023\033\130\122\141\155\160
\040\123\145\143\165\162\151\164\171\040\123\145\162\166\151\143
\145\163\040\111\156\143\061\055\060\053\006\003\125\004\003\023
\044\130\122\141\155\160\040\107\154\157\142\141\154\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\120\224\154\354\030\352\325\234\115\325\227\357\165\217
\240\255
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING
 CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Go Daddy Class 2 CA"
#
# Issuer: OU=Go Daddy Class 2 Certification Authority,O="The Go Daddy Group, Inc.",C=US
# Serial Number: 0 (0x0)
# Subject: OU=Go Daddy Class 2 Certification Authority,O="The Go Daddy Group, Inc.",C=US
# Not Valid Before: Tue Jun 29 17:06:20 2004
# Not Valid After : Thu Jun 29 17:06:20 2034
# Fingerprint (SHA-256):
C3:84:6B:F2:4B:9E:93:CA:64:27:4C:0E:C6:7C:1E:CC:5E:02:4F:FC:AC:D2:D7:40:19:35:0E:81:FE:54:6A:E4
# Fingerprint (SHA1): 27:96:BA:E6:3F:18:01:E2:77:26:1B:A0:D7:77:70:02:8F:20:EE:E4
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Go Daddy Class 2 CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\143\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\041\060\037\006\003\125\004\012\023\030\124\150\145\040\107\157
\040\104\141\144\144\171\040\107\162\157\165\160\054\040\111\156
\143\056\061\061\060\057\006\003\125\004\013\023\050\107\157\040
\104\141\144\144\171\040\103\154\141\163\163\040\062\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END
CKA_ID
```

UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\143\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\041\060\037\006\003\125\004\012\023\030\124\150\145\040\107\157
\040\104\141\144\144\171\040\107\162\157\165\160\054\040\111\156
\143\056\061\061\060\057\006\003\125\004\013\023\050\107\157\040
\104\141\144\144\171\040\103\154\141\163\163\040\062\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\000\060\202\002\350\240\003\002\001\002\002\001\000
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\143\061\013\060\011\006\003\125\004\006\023\002\125\123\061\041
\060\037\006\003\125\004\012\023\030\124\150\145\040\107\157\040
\104\141\144\144\171\040\107\162\157\165\160\054\040\111\156\143
\056\061\061\060\057\006\003\125\004\013\023\050\107\157\040\104
\141\144\144\171\040\103\154\141\163\163\040\062\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171\060\036\027\015\060\064\060\066\062\071\061\067
\060\066\062\060\132\027\015\063\064\060\066\062\071\061\067\060
\066\062\060\132\060\143\061\013\060\011\006\003\125\004\006\023
\002\125\123\061\041\060\037\006\003\125\004\012\023\030\124\150
\145\040\107\157\040\104\141\144\144\171\040\107\162\157\165\160
\054\040\111\156\143\056\061\061\060\057\006\003\125\004\013\023
\050\107\157\040\104\141\144\144\171\040\103\154\141\163\163\040
\062\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040
\101\165\164\150\157\162\151\164\171\060\202\001\040\060\015\006
\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001\015
\000\060\202\001\010\002\202\001\001\000\336\235\327\352\127\030
\111\241\133\353\327\137\110\206\352\276\335\377\344\357\147\034
\364\145\150\263\127\161\240\136\167\273\355\233\111\351\160\200
\075\126\030\143\010\157\332\362\314\320\077\177\002\124\042\124
\020\330\262\201\324\300\165\075\113\177\307\167\303\076\170\253
\032\003\265\040\153\057\152\053\261\305\210\176\304\273\036\260
\301\330\105\047\157\252\067\130\367\207\046\327\330\055\366\251
\027\267\037\162\066\116\246\027\077\145\230\222\333\052\156\135
\242\376\210\340\013\336\177\345\215\025\341\353\313\072\325\342
\022\242\023\055\330\216\257\137\022\075\240\010\005\010\266\134
\245\145\070\004\105\231\036\243\140\140\164\305\101\245\162\142
\033\142\305\037\157\137\032\102\276\002\121\145\250\256\043\030
\152\374\170\003\251\115\177\200\303\372\253\132\374\241\100\244
\312\031\026\376\262\310\357\136\163\015\356\167\275\232\366\171
\230\274\261\007\147\242\025\015\335\240\130\306\104\173\012\076
\142\050\137\272\101\007\123\130\317\021\176\070\164\305\370\377

\265\151\220\217\204\164\352\227\033\257\002\001\003\243\201\300
\060\201\275\060\035\006\003\125\035\016\004\026\004\024\322\304
\260\322\221\324\114\021\161\263\141\313\075\241\376\335\250\152
\324\343\060\201\215\006\003\125\035\043\004\201\205\060\201\202
\200\024\322\304\260\322\221\324\114\021\161\263\141\313\075\241
\376\335\250\152\324\343\241\147\244\145\060\143\061\013\060\011
\006\003\125\004\006\023\002\125\123\061\041\060\037\006\003\125
\004\012\023\030\124\150\145\040\107\157\040\104\141\144\144\171
\040\107\162\157\165\160\054\040\111\156\143\056\061\061\060\057
\006\003\125\004\013\023\050\107\157\040\104\141\144\144\171\040
\103\154\141\163\163\040\062\040\103\145\162\164\151\146\151\143
\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\202
\001\000\060\014\006\003\125\035\023\004\005\060\003\001\001\377
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\003
\202\001\001\000\062\113\363\262\312\076\221\374\022\306\241\007
\214\216\167\240\063\006\024\134\220\036\030\367\010\246\075\012
\031\371\207\200\021\156\151\344\226\027\060\377\064\221\143\162
\070\356\314\034\001\243\035\224\050\244\061\366\172\304\124\327
\366\345\061\130\003\242\314\316\142\333\224\105\163\265\277\105
\311\044\265\325\202\002\255\043\171\151\215\270\266\115\316\317
\114\312\063\043\350\034\210\252\235\213\101\156\026\311\040\345
\211\236\315\073\332\160\367\176\231\046\040\024\124\045\253\156
\163\205\346\233\041\235\012\154\202\016\250\370\302\014\372\020
\036\154\226\357\207\015\304\017\141\213\255\356\203\053\225\370
\216\222\204\162\071\353\040\352\203\355\203\315\227\156\010\274
\353\116\046\266\163\053\344\323\366\114\376\046\161\342\141\021
\164\112\377\127\032\207\017\165\110\056\317\121\151\027\240\002
\022\141\225\325\321\100\262\020\114\356\304\254\020\103\246\245
\236\012\325\225\142\232\015\317\210\202\305\062\014\344\053\237
\105\346\015\237\050\234\261\271\052\132\127\255\067\017\257\035
\177\333\275\237
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Go Daddy Class 2 CA"
Issuer: OU=Go Daddy Class 2 Certification Authority,O="The Go Daddy Group, Inc.",C=US
Serial Number: 0 (0x0)
Subject: OU=Go Daddy Class 2 Certification Authority,O="The Go Daddy Group, Inc.",C=US
Not Valid Before: Tue Jun 29 17:06:20 2004
Not Valid After : Thu Jun 29 17:06:20 2034
Fingerprint (SHA-256):
C3:84:6B:F2:4B:9E:93:CA:64:27:4C:0E:C6:7C:1E:CC:5E:02:4F:FC:AC:D2:D7:40:19:35:0E:81:FE:54:6A:E4
Fingerprint (SHA1): 27:96:BA:E6:3F:18:01:E2:77:26:1B:A0:D7:77:70:02:8F:20:EE:E4
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE

```
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Go Daddy Class 2 CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\047\226\272\346\077\030\001\342\167\046\033\240\327\167\160\002
\217\040\356\344
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\221\336\006\045\253\332\375\062\027\014\273\045\027\052\204\147
END
CKA_ISSUER
 MULTILINE_OCTAL
\060\143\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\041\060\037\006\003\125\004\012\023\030\124\150\145\040\107\157
\040\104\141\144\144\171\040\107\162\157\165\160\054\040\111\156
\143\056\061\061\060\057\006\003\125\004\013\023\050\107\157\040
\104\141\144\144\171\040\103\154\141\163\163\040\062\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Starfield Class 2 CA"
#
# Issuer: OU=Starfield Class 2 Certification Authority,O="Starfield Technologies, Inc.",C=US
# Serial Number: 0 (0x0)
# Subject: OU=Starfield Class 2 Certification Authority,O="Starfield
 Technologies, Inc.",C=US
# Not Valid Before: Tue Jun 29 17:39:16 2004
# Not Valid After : Thu Jun 29 17:39:16 2034
# Fingerprint (SHA-256):
14:65:FA:20:53:97:B8:76:FA:A6:F0:A9:95:8E:55:90:E4:0F:CC:7F:AA:4F:B7:C2:C8:67:75:21:FB:5F:B6:58
# Fingerprint (SHA1): AD:7E:1C:28:B0:64:EF:8F:60:03:40:20:14:C3:D0:E3:37:0E:B5:8A
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Class 2 CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\150\061\013\060\011\006\003\125\004\006\023\002\125\123\061
```

\045\060\043\006\003\125\004\012\023\034\123\164\141\162\146\151
\145\154\144\040\124\145\143\150\156\157\154\157\147\151\145\163
\054\040\111\156\143\056\061\062\060\060\006\003\125\004\013\023
\051\123\164\141\162\146\151\145\154\144\040\103\154\141\163\163
\040\062\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\150\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\045\060\043\006\003\125\004\012\023\034\123\164\141\162\146\151
\145\154\144\040\124\145\143\150\156\157\154\157\147\151\145\163
\054\040\111\156\143\056\061\062\060\060\006\003\125\004\013\023
\051\123\164\141\162\146\151\145\154\144\040\103\154\141\163\163
\040\062\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\017\060\202\002\367\240\003\002\001\002\002\001\000
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\150\061\013\060\011\006\003\125\004\006\023\002\125\123\061\045
\060\043\006\003\125\004\012\023\034\123\164\141\162\146\151\145
\154\144\040\124\145\143\150\156\157\154\157\147\151\145\163\054
\040\111\156\143\056\061\062\060\060\006\003\125\004\013\023\051
\123\164\141\162\146\151\145\154\144\040\103\154\141\163\163\040
\062\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040
\101\165\164\150\157\162\151\164\171\060\036\027\015\060\064\060
\066\062\071\061\067\063\071\061\066\132\027\015\063\064\060\066
\062\071\061\067\063\071\061\066\132\060\150\061\013\060\011\006
\003\125\004\006\023\002\125\123\061\045\060\043\006\003\125\004
\012\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143
\150\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061
\062\060\060\006\003\125\004\013\023\051\123\164\141\162\146\151
\145\154\144\040\103\154\141\163\163\040\062\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171\060\202\001\040\060\015\006\011\052\206\110\206\367
\015\001\001\001\005\000\003\202\001\015\000\060\202\001\010\002
\202\001\001\000\267\062\310\376\351\161\246\004\205\255\014\021
\144\337\316\115\357\310\003\030\207\077\241\253\373\074\246\237
\360\303\241\332\324\330\156\053\123\220\373\044\244\076\204\360
\236\350\137\354\345\047\104\365\050\246\077\173\336\340\052\360
\310\257\123\057\236\312\005\001\223\036\217\146\034\071\247\115
\372\132\266\163\004\045\146\353\167\177\347\131\306\112\231\045
\024\124\353\046\307\363\177\031\325\060\160\217\257\260\106\052

\377\255\353\051\355\327\237\252\004\207\243\324\371\211\245\064
\137\333\103\221\202\066\331\146\074\261\270\271\202\375\234\072
\076\020\310\073\357\006\145\146\172\233\031\030\075\377\161\121
\074\060\056\137\276\075\167\163\262\135\006\154\303\043\126\232
\053\205\046\222\034\247\002\263\344\077\015\257\010\171\202\270
\066\075\352\234\323\065\263\274\151\312\365\314\235\350\375\144
\215\027\200\063\156\136\112\135\231\311\036\207\264\235\032\300
\325\156\023\065\043\136\337\233\137\075\357\326\367\166\302\352
\076\273\170\015\034\102\147\153\004\330\370\326\332\157\213\362
\104\240\001\253\002\001\003\243\201\305\060\201\302\060\035\006
\003\125\035\016\004\026\004\024\277\137\267\321\316\335\037\206
\364\133\125\254\334\327\020\302\016\251\210\347\060\201\222\006
\003\125\035\043\004\201\212\060\201\207\200\024\277\137\267\321
\316\335\037\206\364\133\125\254\334\327\020\302\016\251\210\347
\241\154\244\152\060\150\061\013\060\011\006\003\125\004\006\023
\002\125\123\061\045\060\043\006\003\125\004\012\023\034\123\164
\141\162\146\151\145\154\144\040\124\145\143\150\156\157\154\157
\147\151\145\163\054\040\111\156\143\056\061\062\060\060\006\003
\125\004\013\023\051\123\164\141\162\146\151\145\154\144\040\103
\154\141\163\163\040\062\040\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\202\001
\000\060\014\006\003\125\035\023\004\005\060\003\001\001\377\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\003\202
\001\001\000\005\235\077\210\235\321\311\032\125\241\254\151\363
\363\131\332\233\001\207\032\117\127\251\241\171\011\052\333\367
\057\262\036\314\307\136\152\330\203\207\241\227\357\111\065\076
\167\006\101\130\142\277\216\130\270\012\147\077\354\263\335\041
\146\037\311\124\372\162\314\075\114\100\330\201\257\167\236\203
\172\273\242\307\365\064\027\216\331\021\100\364\374\054\052\115
\025\177\247\142\135\056\045\323\000\013\040\032\035\150\371\027
\270\364\275\213\355\050\131\335\115\026\213\027\203\310\262\145
\307\055\172\245\252\274\123\206\155\335\127\244\312\370\040\101
\013\150\360\364\373\164\276\126\135\172\171\365\371\035\205\343
\055\225\276\365\161\220\103\314\215\037\232\000\012\207\051\351
\125\042\130\000\043\352\343\022\103\051\133\107\010\335\214\101
\152\145\006\250\345\041\252\101\264\225\041\225\271\175\321\064
\253\023\326\255\274\334\342\075\071\315\275\076\165\160\241\030
\131\003\311\042\264\217\234\325\136\052\327\245\266\324\012\155
\370\267\100\021\106\232\037\171\016\142\277\017\227\354\340\057
\037\027\224
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Starfield Class 2 CA"
Issuer: OU=Starfield

```
 Class 2 Certification Authority,O="Starfield Technologies, Inc.",C=US
# Serial Number: 0 (0x0)
# Subject: OU=Starfield Class 2 Certification Authority,O="Starfield Technologies, Inc.",C=US
# Not Valid Before: Tue Jun 29 17:39:16 2004
# Not Valid After : Thu Jun 29 17:39:16 2034
# Fingerprint (SHA-256):
14:65:FA:20:53:97:B8:76:FA:A6:F0:A9:95:8E:55:90:E4:0F:CC:7F:AA:4F:B7:C2:C8:67:75:21:FB:5F:B6:58
# Fingerprint (SHA1): AD:7E:1C:28:B0:64:EF:8F:60:03:40:20:14:C3:D0:E3:37:0E:B5:8A
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Class 2 CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\255\176\034\050\260\144\357\217\140\003\100\040\024\303\320\343
\067\016\265\212
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\062\112\113\273\310\143\151\233\276\164\232\306\335\035\106\044
END
CKA_ISSUER MULTILINE_OCTAL
\060\150\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\045\060\043\006\003\125\004\012\023\034\123\164\141\162\146\151
\145\154\144\040\124\145\143\150\156\157\154\157\147\151\145\163
\054\040\111\156\143\056\061\062\060\060\006\003\125\004\013\023
\051\123\164\141\162\146\151\145\154\144\040\103\154\141\163\163
\040\062\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "DigiCert Assured ID Root CA"
#
# Issuer: CN=DigiCert Assured ID Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Serial Number:0c:e7:e0:e5:17:d8:46:fe:8f:e5:60:fc:1b:f0:30:39
# Subject: CN=DigiCert Assured ID Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Fri Nov 10 00:00:00 2006
# Not Valid After : Mon Nov 10 00:00:00 2031
# Fingerprint (SHA-256):
```

3E:90:99:B5:01:5E:8F:48:6C:00:BC:EA:9D:11:1E:E7:21:FA:BA:35:5A:89:BC:F1:DF:69:56:1E:3D:C6:32:5C
Fingerprint (SHA1): 05:63:B8:63:0D:62:D7:5A:BB:C8:AB:1E:4B:DF:B5:A8:99:B2:4D:43
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\014\347\340\345\027\330\106\376\217\345\140\374\033\360
\060\071
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\267\060\202\002\237\240\003\002\001\002\002\020\014
\347\340\345\027\330\106\376\217\345\140\374\033\360\060\071\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\145
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\025\060
\023\006\003\125\004\012\023\014\104\151\147\151\103\145\162\164
\040\111\156\143\061\031\060\027\006\003\125\004\013\023\020\167
\167\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061
\044\060\042\006\003\125\004\003\023\033\104\151\147\151\103\145
\162\164\040\101\163\163\165\162\145\144\040\111\104\040\122\157
\157\164\040\103\101\060\036\027\015\060\066\061\061\061\060\060
\060\060\060\060\060\132\027\015\063\061\061\061\061\060\060\060
\060\060\060\060\132\060\145\061\013\060\011\006\003\125\004\006
\023\002\125\123\061\025\060\023\006\003\125\004\012\023\014\104
\151\147\151\103\145\162\164\040\111\156\143\061\031\060\027\006
\003\125\004\013\023\020\167\167\167\056\144\151\147\151\143\145

\162\164\056\143\157\155\061\044\060\042\006\003\125\004\003\023
\033\104\151\147\151\103\145\162\164\040\101\163\163\165\162\145
\144\040\111\104\040\122\157\157\164\040\103\101\060\202\001\042
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\001\017\000\060\202\001\012\002\202\001\001\000\255\016\025
\316\344\103\200\134\261\207\363\267\140\371\161\022\245\256\334
\046\224\210\252\364\316\365\040\071\050\130\140\014\370\200\332
\251\025\225\062\141\074\265\261\050\204\212\212\334\237\012\014
\203\027\172\217\220\254\212\347\171\123\134\061\204\052\366\017
\230\062\066\166\314\336\335\074\250\242\357\152\373\041\362\122
\141\337\237\040\327\037\342\261\331\376\030\144\322\022\133\137
\371\130\030\065\274\107\315\241\066\371\153\177\324\260\070\076
\301\033\303\214\063\331\330\057\030\376\050\017\263\247\203\326
\303\156\104\300\141\065\226\026\376\131\234\213\166\155\327\361
\242\113\015\053\377\013\162\332\236\140\320\216\220\065\306\170
\125\207\040\241\317\345\155\012\310\111\174\061\230\063\154\042
\351\207\320\062\132\242\272\023\202\021\355\071\027\235\231\072
\162\241\346\372\244\331\325\027\061\165\256\205\175\042\256\077
\001\106\206\366\050\171\310\261\332\344\127\027\304\176\034\016
\260\264\222\246\126\263\275\262\227\355\252\247\360\267\305\250
\077\225\026\320\377\241\226\353\010\137\030\167\117\002\003\001
\000\001\243\143\060\141\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\206\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026
\004\024\105\353\242\257\364\222\313\202\061\055\121\213\247\247
\041\235\363\155\310\017\060\037\006\003\125\035\043\004\030\060
\026\200\024\105\353\242\257\364\222\313\202\061\055\121\213\247
\247\041\235\363\155\310\017\060\015\006\011\052\206\110\206\367
\015\001\001\005\005\000\003\202\001\001\000\242\016\274\337\342
\355\360\343\162\163\172\144\224\277\367\162\146\330\062\344\102
\165\142\256\207\353\362\325\331\336\126\263\237\314\316\024\050
\271\015\227\140\134\022\114\130\344\323\075\203\111\105\130\227
\065\151\032\250\107\352\126\306\171\253\022\330\147\201\204\337
\177\011\074\224\346\270\046\054\040\275\075\263\050\211\367\137
\377\042\342\227\204\037\351\145\357\207\340\337\301\147\111\263
\135\353\262\011\052\353\046\355\170\276\175\077\053\363\267\046
\065\155\137\211\001\266\111\133\237\001\005\233\253\075\045\301
\314\266\177\302\361\157\206\306\372\144\150\353\201\055\224\353
\102\267\372\214\036\335\142\361\276\120\147\267\154\275\363\361
\037\153\014\066\007\026\177\067\174\251\133\155\172\361\022\106
\140\203\327\047\004\276\113\316\227\276\303\147\052\150\021\337
\200\347\014\063\146\277\023\015\024\156\363\177\037\143\020\036
\372\215\033\045\155\154\217\245\267\141\001\261\322\243\046\241
\020\161\235\255\342\303\371\303\231\121\267\053\007\010\316\056
\346\120\262\247\372\012\105\057\242\360\362
END
CKA_NSS_MOZILLA_CA_POLICY

```
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "DigiCert Assured ID Root CA"
# Issuer: CN=DigiCert Assured ID Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Serial Number:0c:e7:e0:e5:17:d8:46:fe:8f:e5:60:fc:1b:f0:30:39
# Subject: CN=DigiCert Assured ID Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Fri Nov 10 00:00:00 2006
# Not Valid After : Mon Nov 10 00:00:00 2031
# Fingerprint (SHA-256):
3E:90:99:B5:01:5E:8F:48:6C:00:BC:EA:9D:11:1E:E7:21:FA:BA:35:5A:89:BC:F1:DF:69:56:1E:3D:C6:32:5C
# Fingerprint (SHA1): 05:63:B8:63:0D:62:D7:5A:BB:C8:AB:1E:4B:DF:B5:A8:99:B2:4D:43
CKA_CLASS
 CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\005\143\270\143\015\142\327\132\273\310\253\036\113\337\265\250
\231\262\115\103
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\207\316\013\173\052\016\111\000\341\130\161\233\067\250\223\162
END
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\014\347\340\345\027\330\106\376\217\345\140\374\033\360
\060\071
END
CKA_TRUST_SERVER_AUTH
 CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "DigiCert Global Root CA"
#
```

```
# Issuer: CN=DigiCert Global Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Serial Number:08:3b:e0:56:90:42:46:b1:a1:75:6a:c9:59:91:c7:4a
# Subject: CN=DigiCert Global Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Fri Nov 10 00:00:00 2006
# Not Valid After : Mon Nov 10 00:00:00 2031
# Fingerprint (SHA-256):
43:48:A0:E9:44:4C:78:CB:26:5E:05:8D:5E:89:44:B4:D8:4F:96:62:BD:26:DB:25:7F:89:34:A4:43:C7:01:61
# Fingerprint (SHA1): A8:98:5D:3A:65:E5:E5:C4:B2:D7:D6:6D:40:C6:DD:2F:B1:9C:54:36
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE
 CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\010\073\340\126\220\102\106\261\241\165\152\311\131\221
\307\112
END
CKA_VALUE
 MULTILINE_OCTAL
\060\202\003\257\060\202\002\227\240\003\002\001\002\002\020\010
\073\340\126\220\102\106\261\241\165\152\311\131\221\307\112\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\141
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\025\060
\023\006\003\125\004\012\023\014\104\151\147\151\103\145\162\164
\040\111\156\143\061\031\060\027\006\003\125\004\013\023\020\167
\167\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061
\040\060\036\006\003\125\004\003\023\027\104\151\147\151\103\145
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\162\164\040\107\154\157\142\141\154\040\122\157\157\164\040\103
\101\060\036\027\015\060\066\061\061\061\060\060\060\060\060\060
\060\132\027\015\063\061\061\061\061\060\060\060\060\060\060\060
\132\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103
\145\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013
\023\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143
\157\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147
\151\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157
\164\040\103\101\060\202\001\042\060\015\006\011\052\206\110\206
\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012
\002\202\001\001\000\342\073\341\021\162\336\250\244\323\243\127
\252\120\242\217\013\167\220\311\242\245\356\022\316\226\133\001
\011\040\314\001\223\247\116\060\267\123\367\103\304\151\000\127
\235\342\215\042\335\207\006\100\000\201\011\316\316\033\203\277
\337\315\073\161\106\342\326\146\307\005\263\166\047\026\217\173
\236\036\225\175\356\267\110\243\010\332\326\257\172\014\071\006
\145\177\112\135\037\274\027\370\253\276\356\050\327\164\177\172
\170\231\131\205\150\156\134\043\062\113\277\116\300\350\132\155
\343\160\277\167\020\277\374\001\366\205\331\250\104\020\130\062
\251\165\030\325\321\242\276\107\342\047\152\364\232\063\370\111
\010\140\213\324\137\264\072\204\277\241\252\112\114\175\076\317
\117\137\154\166\136\240\113\067\221\236\334\042\346\155\316\024
\032\216\152\313\376\315\263\024\144\027\307\133\051\236\062\277
\362\356\372\323\013\102\324\253\267\101\062\332\014\324\357\370
\201\325\273\215\130\077\265\033\350\111\050\242\160\332\061\004
\335\367\262\026\362\114\012\116\007\250\355\112\075\136\265\177
\243\220\303\257\047\002\003\001\000\001\243\143\060\141\060\016
\006\003\125\035\017\001\001\377\004\004\003\002\001\206\060\017
\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060
\035\006\003\125\035\016\004\026\004\024\003\336\120\065\126\321
\114\273\146\360\243\342\033\033\303\227\262\075\321\125\060\037
\006\003\125\035\043\004\030\060\026\200\024\003\336\120\065\126
\321\114\273\146\360\243\342\033\033\303\227\262\075\321\125\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\003\202
\001\001\000\313\234\067\252\110\023\022\012\372\335\104\234\117
\122\260\364\337\256\004\365\171\171\010\243\044\030\374\113\053
\204\300\055\271\325\307\376\364\301\037\130\313\270\155\234\172
\164\347\230\051\253\021\265\343\160\240\241\315\114\210\231\223
\214\221\160\342\253\017\034\276\223\251\377\143\325\344\007\140
\323\243\277\235\133\011\361\325\216\343\123\364\216\143\372\077
\247\333\264\146\337\142\146\326\321\156\101\215\362\055\265\352
\167\112\237\235\130\342\053\131\300\100\043\355\055\050\202\105
\076\171\124\222\046\230\340\200\110\250\067\357\360\326\171\140
\026\336\254\350\016\315\156\254\104\027\070\057\111\332\341\105
\076\052\271\066\123\317\072\120\006\367\056\350\304\127\111\154
\141\041\030\325\004\255\170\074\054\072\200\153\247\353\257\025
\024\351\330\211\301\271\070\154\342\221\154\212\377\144\271\167

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\045\127\060\300\033\044\243\341\334\351\337\107\174\265\264\044
\010\005\060\354\055\275\013\277\105\277\120\271\251\363\353\230
\001\022\255\310\210\306\230\064\137\215\012\074\306\351\325\225
\225\155\336
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER
 CK_BBOOL CK_FALSE

# Trust for "DigiCert Global Root CA"
# Issuer: CN=DigiCert Global Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Serial Number:08:3b:e0:56:90:42:46:b1:a1:75:6a:c9:59:91:c7:4a
# Subject: CN=DigiCert Global Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Fri Nov 10 00:00:00 2006
# Not Valid After : Mon Nov 10 00:00:00 2031
# Fingerprint (SHA-256):
43:48:A0:E9:44:4C:78:CB:26:5E:05:8D:5E:89:44:B4:D8:4F:96:62:BD:26:DB:25:7F:89:34:A4:43:C7:01:61
# Fingerprint (SHA1): A8:98:5D:3A:65:E5:E5:C4:B2:D7:D6:6D:40:C6:DD:2F:B1:9C:54:36
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\250\230\135\072\145\345\345\304\262\327\326\155\100\306\335\057
\261\234\124\066
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\171\344\251\204\015\175\072\226\327\300\117\342\103\114\211\056
END
CKA_ISSUER MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\103\101
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\010\073\340\126\220\102\106\261\241\165\152\311\131\221
\307\112
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
```

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CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "DigiCert High Assurance EV Root CA"
#
# Issuer: CN=DigiCert High Assurance EV Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Serial Number:02:ac:5c:26:6a:0b:40:9b:8f:0b:79:f2:ae:46:25:77
# Subject: CN=DigiCert High Assurance EV Root CA,OU=www.digicert.com,O=DigiCert
 Inc,C=US
# Not Valid Before: Fri Nov 10 00:00:00 2006
# Not Valid After : Mon Nov 10 00:00:00 2031
# Fingerprint (SHA-256):
74:31:E5:F4:C3:C1:CE:46:90:77:4F:0B:61:E0:54:40:88:3B:A9:A0:1E:D0:0B:A6:AB:D7:80:6E:D3:B1:18:CF
# Fingerprint (SHA1): 5F:B7:EE:06:33:E2:59:DB:AD:0C:4C:9A:E6:D3:8F:1A:61:C7:DC:25
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert High Assurance EV Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\154\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\053\060\051\006\003\125\004\003\023\042\104\151\147\151
\103\145\162\164\040\110\151\147\150\040\101\163\163\165\162\141
\156\143\145\040\105\126\040\122\157\157\164\040\103\101
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\154\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\053\060\051\006\003\125\004\003\023\042\104\151\147\151
\103\145\162\164\040\110\151\147\150\040\101\163\163\165\162\141
\156\143\145\040\105\126\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\002\254\134\046\152\013\100\233\217\013\171\362\256\106
\045\167
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\305\060\202\002\255\240\003\002\001\002\002\020\002
\254\134\046\152\013\100\233\217\013\171\362\256\106\045\167\060
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\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\154
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\025\060
\023\006\003\125\004\012\023\014\104\151\147\151\103\145\162\164
\040\111\156\143\061\031\060\027\006\003\125\004\013\023\020\167
\167\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061
\053\060\051\006\003\125\004\003\023\042\104\151\147\151\103\145
\162\164\040\110\151\147\150\040\101\163\163\165\162\141\156\143
\145\040\105\126\040\122\157\157\164\040\103\101\060\036\027\015
\060\066\061\061\061\060\060\060\060\060\060\060\132\027\015\063
\061\061\061\061\060\060\060\060\060\060\060\132\060\154\061\013
\060\011\006\003\125\004\006\023\002\125\123\061\025\060\023\006
\003\125\004\012\023\014\104\151\147\151\103\145\162\164\040\111
\156\143\061\031\060\027\006\003\125\004\013\023\020\167\167\167
\056\144\151\147\151\143\145\162\164\056\143\157\155\061\053\060
\051\006\003\125\004\003\023\042\104\151\147\151\103\145\162\164
\040\110\151\147\150\040\101\163\163\165\162\141\156\143\145\040
\105\126\040\122\157\157\164\040\103\101\060\202\001\042\060\015
\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001
\017\000\060\202\001\012\002\202\001\001\000\306\314\345\163\346
\373\324\273\345\055\055\062\246\337\345\201\077\311\315\045\111
\266\161\052\303\325\224\064\147\242\012\034\260\137\151\246\100
\261\304\267\262\217\320\230\244\251\101\131\072\323\334\224\326
\074\333\164\070\244\112\314\115\045\202\367\112\245\123\022\070
\356\363\111\155\161\221\176\143\266\253\246\137\303\244\204\370
\117\142\121\276\370\305\354\333\070\222\343\006\345\010\221\014
\304\050\101\125\373\313\132\211\025\176\161\350\065\277\115\162
\011\075\276\072\070\120\133\167\061\033\215\263\307\044\105\232
\247\254\155\000\024\132\004\267\272\023\353\121\012\230\101\101
\042\116\145\141\207\201\101\120\246\171\134\211\336\031\112\127
\325\056\346\135\034\123\054\176\230\315\032\006\026\244\150\163
\320\064\004\023\134\241\161\323\132\174\125\333\136\144\341\067
\207\060\126\004\345\021\264\051\200\022\361\171\071\210\242\002
\021\174\047\146\267\210\267\170\362\312\012\250\070\253\012\144
\302\277\146\135\225\204\301\241\045\036\207\135\032\120\013\040
\022\314\101\273\156\013\121\070\270\113\313\002\003\001\000\001
\243\143\060\141\060\016\006\003\125\035\017\001\001\377\004\004
\003\002\001\206\060\017\006\003\125\035\023\001\001\377\004\005
\060\003\001\001\377\060\035\006\003\125\035\016\004\026\004\024
\261\076\303\151\003\370\277\107\001\324\230\046\032\010\002\357
\143\144\053\303\060\037\006\003\125\035\043\004\030\060\026\200
\024\261\076\303\151\003\370\277\107\001\324\230\046\032\010\002
\357\143\144\053\303\060\015\006\011\052\206\110\206\367\015\001
\001\005\005\000\003\202\001\001\000\034\032\006\227\334\327\234
\237\074\210\146\006\010\127\041\333\041\107\370\052\147\252\277
\030\062\166\100\020\127\301\212\363\172\331\021\145\216\065\372
\236\374\105\265\236\331\114\061\113\270\221\350\103\054\216\263
\170\316\333\343\123\171\161\326\345\041\224\001\332\125\207\232
\044\144\366\212\146\314\336\234\067\315\250\064\261\151\233\043

\310\236\170\042\053\160\103\343\125\107\061\141\031\357\130\305
\205\057\116\060\366\240\061\026\043\310\347\342\145\026\063\313
\277\032\033\240\075\370\312\136\213\061\213\140\010\211\055\014
\006\134\122\267\304\371\012\230\321\025\137\237\022\276\174\066
\143\070\275\104\244\177\344\046\053\012\304\227\151\015\351\214
\342\300\020\127\270\310\166\022\221\125\362\110\151\330\274\052
\002\133\017\104\324\040\061\333\364\272\160\046\135\220\140\236
\274\113\027\011\057\264\313\036\103\150\311\007\047\301\322\134
\367\352\041\271\150\022\234\074\234\277\236\374\200\134\233\143
\315\354\107\252\045\047\147\240\067\363\000\202\175\124\327\251
\370\351\056\023\243\167\350\037\112
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "DigiCert High Assurance EV Root CA"
Issuer: CN=DigiCert High Assurance EV Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
Serial Number:02:ac:5c:26:6a:0b:40:9b:8f:0b:79:f2:ae:46:25:77
Subject: CN=DigiCert High Assurance EV
 Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
Not Valid Before: Fri Nov 10 00:00:00 2006
Not Valid After : Mon Nov 10 00:00:00 2031
Fingerprint (SHA-256):
74:31:E5:F4:C3:C1:CE:46:90:77:4F:0B:61:E0:54:40:88:3B:A9:A0:1E:D0:0B:A6:AB:D7:80:6E:D3:B1:18:CF
Fingerprint (SHA1): 5F:B7:EE:06:33:E2:59:DB:AD:0C:4C:9A:E6:D3:8F:1A:61:C7:DC:25
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert High Assurance EV Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\137\267\356\006\063\342\131\333\255\014\114\232\346\323\217\032
\141\307\334\045
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\324\164\336\127\134\071\262\323\234\205\203\305\300\145\111\212
END
CKA_ISSUER MULTILINE_OCTAL
\060\154\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\053\060\051\006\003\125\004\003\023\042\104\151\147\151
\103\145\162\164\040\110\151\147\150\040\101\163\163\165\162\141
\156\143\145\040\105\126\040\122\157\157\164\040\103\101
END

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CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\002\254\134\046\152\013\100\233\217\013\171\362\256\106
\045\167
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "SwissSign Gold CA - G2"
#
# Issuer: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH
# Serial Number:00:bb:40:1c:43:f5:5e:4f:b0
# Subject: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH
# Not Valid Before: Wed Oct 25 08:30:35 2006
# Not Valid After : Sat Oct 25 08:30:35 2036
# Fingerprint (SHA-256):
62:DD:0B:E9:B9:F5:0A:16:3E:A0:F8:E7:5C:05:3B:1E:CA:57:EA:55:C8:68:8F:64:7C:68:81:F2:C8:35:7B:95
# Fingerprint (SHA1): D8:C5:38:8A:B7:30:1B:1B:6E:D4:7A:E6:45:25:3A:6F:9F:1A:27:61
CKA_CLASS
 CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Gold CA - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\037\060\035\006\003\125\004\003\023
\026\123\167\151\163\163\123\151\147\156\040\107\157\154\144\040
\103\101\040\055\040\107\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\037\060\035\006\003\125\004\003\023
\026\123\167\151\163\163\123\151\147\156\040\107\157\154\144\040
\103\101\040\055\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\273\100\034\103\365\136\117\260
END
CKA_VALUE
```

MULTILINE_OCTAL

```
\060\202\005\272\060\202\003\242\240\003\002\001\002\002\011\000
\273\100\034\103\365\136\117\260\060\015\006\011\052\206\110\206
\367\015\001\001\005\005\000\060\105\061\013\060\011\006\003\125
\004\006\023\002\103\110\061\025\060\023\006\003\125\004\012\023
\014\123\167\151\163\163\123\151\147\156\040\101\107\061\037\060
\035\006\003\125\004\003\023\026\123\167\151\163\163\123\151\147
\156\040\107\157\154\144\040\103\101\040\055\040\107\062\060\036
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\015\063\066\061\060\062\065\060\070\063\060\063\065\132\060\105
\061\013\060\011\006\003\125\004\006\023\002\103\110\061\025\060
\023\006\003\125\004\012\023\014\123\167\151\163\163\123\151\147
\156\040\101\107\061\037\060\035\006\003\125\004\003\023\026\123
\167\151\163\163\123\151\147\156\040\107\157\154\144\040\103\101
\040\055\040\107\062\060\202\002\042\060\015\006\011\052\206\110
\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202\002
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\120\055\026\104\073\222\222\134\312\270\135\204\222\102\023\052
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\357\242\320\300\037\002\044\112\023\226\217\043\023\346\050\130
\000\243\107\307\006\247\204\043\053\273\275\226\053\177\125\314
\213\301\127\037\016\142\145\017\335\075\126\212\163\332\256\176
\155\272\201\034\176\102\214\040\065\331\103\115\204\372\204\333
\122\054\363\016\047\167\013\153\277\021\057\162\170\237\056\330
\076\346\030\067\132\052\162\371\332\142\220\222\225\312\037\234
\351\263\074\053\313\363\001\023\277\132\317\301\265\012\140\275
\335\265\231\144\123\270\240\226\263\157\342\046\167\221\214\340
\142\020\002\237\064\017\244\325\222\063\121\336\276\215\272\204
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\206\313\264\257\355\104\100\305\312\132\214\332\322\053\174\250
\356\276\246\345\012\252\016\245\337\005\122\267\125\307\042\135
\062\152\227\227\143\023\333\311\333\171\066\173\205\072\112\305
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\060\067\220\052\344\236\024\063\136\026\027\125\305\133\265\313
\064\211\222\361\235\046\217\241\007\324\306\262\170\120\333\014
\014\013\174\013\214\101\327\271\351\335\214\210\367\243\115\262
\062\314\330\027\332\315\267\316\146\235\324\375\136\377\275\227
\076\051\165\347\176\247\142\130\257\045\064\245\101\307\075\274
\015\120\312\003\003\017\010\132\037\225\163\170\142\277\257\162
\024\151\016\245\345\003\016\170\216\046\050\102\360\007\013\142
\040\020\147\071\106\372\251\003\314\004\070\172\146\357\040\203
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\150\156\175\215\357\074\335\145\364\135\254\121\357\044\200\256
\252\126\227\157\371\255\175\332\141\077\230\167\074\245\221\266
\034\214\046\332\145\242\011\155\301\342\124\343\271\312\114\114
\200\217\167\173\140\232\036\337\266\362\110\036\016\272\116\124
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\001\377\060\035\006\003\125\035\016\004\026\004\024\133\045\173
\226\244\145\121\176\270\071\363\300\170\146\136\350\072\347\360
\356\060\037\006\003\125\035\043\004\030\060\026\200\024\133\045
\173\226\244\145\121\176\270\071\363\300\170\146\136\350\072\347
\360\356\060\106\006\003\125\035\040\004\077\060\075\060\073\006
\011\140\205\164\001\131\001\002\001\001\060\056\060\054\006\010
\053\006\001\005\005\007\002\001\026\040\150\164\164\160\072\057
\057\162\145\160\157\163\151\164\157\162\171\056\163\167\151\163
\163\163\151\147\156\056\143\157\155\057\060\015\006\011\052\206
\110\206\367\015\001\001\005\005\000\003\202\002\001\000\047\272
\343\224\174\361\256\300\336\027\346\345\330\325\365\124\260\203
\364\273\315\136\005\173\117\237\165\146\257\074\350\126\176\374
\162\170\070\003\331\053\142\033\000\271\370\351\140\315\314\316
\121\212\307\120\061\156\341\112\176\030\057\151\131\266\075\144
\201\053\343\203\204\346\042\207\216\175\340\356\002\231\141\270
\036\364\270\053\210\022\026\204\302\061\223\070\226\061\246\271
\073\123\077\303\044\223\126\133\151\222\354\305\301\273\070\000
\343\354\027\251\270\334\307\174\001\203\237\062\107\272\122\042
\064\035\062\172\011\126\247\174\045\066\251\075\113\332\300\202
\157\012\273\022\310\207\113\047\021\371\036\055\307\223\077\236
\333\137\046\153\122\331\056\212\361\024\306\104\215\025\251\267
\277\275\336\246\032\356\256\055\373\110\167\027\376\273\354\257
\030\365\052\121\360\071\204\227\225\154\156\033\303\053\304\164
\140\171\045\260\012\047\337\337\136\322\071\317\105\175\102\113
\337\263\054\036\305\306\135\312\125\072\240\234\151\232\217\332
\357\262\260\074\237\207\154\022\053\145\160\025\122\061\032\044
\317\157\061\043\120\037\214\117\217\043\303\164\101\143\034\125
\250\024\335\076\340\121\120\317\361\033\060\126\016\222\260\202
\205\330\203\313\042\144\274\055\270\045\325\124\242\270\006\352
\255\222\244\044\240\301\206\265\112\023\152\107\317\056\013\126
\225\124\313\316\232\333\152\264\246\262\333\101\010\206\047\167
\367\152\240\102\154\013\070\316\327\165\120\062\222\302\337\053
\060\042\110\320\325\101\070\045\135\244\351\135\237\306\224\165
\320\105\375\060\227\103\217\220\253\012\307\206\163\140\112\151
\055\336\245\170\327\006\332\152\236\113\076\167\072\040\023\042
\001\320\277\150\236\143\140\153\065\115\013\155\272\241\075\300
\223\340\177\043\263\125\255\162\045\116\106\371\322\026\357\260
\144\301\001\236\351\312\240\152\230\016\317\330\140\362\057\111
\270\344\102\341\070\065\026\364\310\156\117\367\201\126\350\272
\243\276\043\257\256\375\157\003\340\002\073\060\166\372\033\155
\101\317\001\261\351\270\311\146\364\333\046\363\072\244\164\362
\111\044\133\311\260\320\127\301\372\076\172\341\227\311
END
CKA_NSS_MOZILLA_CA_POLICY

```
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "SwissSign Gold CA - G2"
# Issuer: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH
# Serial Number:00:bb:40:1c:43:f5:5e:4f:b0
# Subject: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH
# Not Valid Before: Wed Oct 25 08:30:35 2006
# Not Valid After : Sat Oct 25 08:30:35 2036
# Fingerprint (SHA-256):
62:DD:0B:E9:B9:F5:0A:16:3E:A0:F8:E7:5C:05:3B:1E:CA:57:EA:55:C8:68:8F:64:7C:68:81:F2:C8:35:7B:95
# Fingerprint (SHA1): D8:C5:38:8A:B7:30:1B:1B:6E:D4:7A:E6:45:25:3A:6F:9F:1A:27:61
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Gold CA - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\330\305\070\212\267\060\033\033\156\324\172\346\105\045\072\157
\237\032\047\141
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\044\167\331\250\221\321\073\372\210\055\302\377\370\315\063\223
END
CKA_ISSUER
 MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\037\060\035\006\003\125\004\003\023
\026\123\167\151\163\163\123\151\147\156\040\107\157\154\144\040
\103\101\040\055\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\273\100\034\103\365\136\117\260
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "SwissSign Silver CA - G2"
#
# Issuer: CN=SwissSign Silver CA - G2,O=SwissSign AG,C=CH
# Serial Number:4f:1b:d4:2f:54:bb:2f:4b
# Subject: CN=SwissSign Silver CA - G2,O=SwissSign AG,C=CH
# Not Valid Before: Wed Oct 25 08:32:46 2006
```

```
# Not Valid After : Sat Oct 25 08:32:46 2036
# Fingerprint (SHA-256):
BE:6C:4D:A2:BB:B9:BA:59:B6:F3:93:97:68:37:42:46:C3:C0:05:99:3F:A9:8F:02:0D:1D:ED:BE:D4:8A:81:D5
#
 Fingerprint (SHA1): 9B:AA:E5:9F:56:EE:21:CB:43:5A:BE:25:93:DF:A7:F0:40:D1:1D:CB
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Silver CA - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\041\060\037\006\003\125\004\003\023
\030\123\167\151\163\163\123\151\147\156\040\123\151\154\166\145
\162\040\103\101\040\055\040\107\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\041\060\037\006\003\125\004\003\023
\030\123\167\151\163\163\123\151\147\156\040\123\151\154\166\145
\162\040\103\101\040\055\040\107\062
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\010\117\033\324\057\124\273\057\113
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\275\060\202\003\245\240\003\002\001\002\002\010\117
\033\324\057\124\273\057\113\060\015\006\011\052\206\110\206\367
\015\001\001\005\005\000\060\107\061\013\060\011\006\003\125\004
\006\023\002\103\110\061\025\060\023\006\003\125\004\012\023\014
\123\167\151\163\163\123\151\147\156\040\101\107\061\041\060\037
\006\003\125\004\003\023\030\123\167\151\163\163\123\151\147\156
\040\123\151\154\166\145\162\040\103\101\040\055\040\107\062\060
\036\027\015\060\066\061\060\062\065\060\070\063\062\064\066\132
\027\015\063\066\061\060\062\065\060\070\063\062\064\066\132\060
\107\061\013\060\011\006\003\125\004\006\023\002\103\110\061\025
\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123\151
\147\156\040\101\107\061\041\060\037\006\003\125\004\003\023\030
\123\167\151\163\163\123\151\147\156\040\123\151\154\166\145\162
\040\103\101\040\055\040\107\062\060\202\002\042\060\015\006\011
\052\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000
\060\202\002\012\002\202\002\001\000\304\361\207\177\323\170\061
\367\070\311\370\303\231\103\274\307\367\274\067\347\116\161\272
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\213\036\361\242\115\047\371\141\173\272\267\345\242\023\266\353
\141\076\320\154\321\346\373\372\136\355\035\264\236\240\065\133
\241\222\313\360\111\222\376\205\012\005\076\346\331\013\342\117
\273\334\225\067\374\221\351\062\065\042\321\037\072\116\047\205
\235\260\025\224\062\332\141\015\107\115\140\102\256\222\107\350
\203\132\120\130\351\212\213\271\135\241\334\335\231\112\037\066
\147\273\110\344\203\266\067\353\110\072\257\017\147\217\027\007
\350\004\312\357\152\061\207\324\300\266\371\224\161\173\147\144
\270\266\221\112\102\173\145\056\060\152\014\365\220\356\225\346
\362\315\202\354\331\241\112\354\366\262\113\345\105\205\346\155
\170\223\004\056\234\202\155\066\251\304\061\144\037\206\203\013
\052\364\065\012\170\311\125\317\101\260\107\351\060\237\231\276
\141\250\006\204\271\050\172\137\070\331\033\251\070\260\203\177
\163\301\303\073\110\052\202\017\041\233\270\314\250\065\303\204
\033\203\263\076\276\244\225\151\001\072\211\000\170\004\331\311
\364\231\031\253\126\176\133\213\206\071\025\221\244\020\054\011
\062\200\140\263\223\300\052\266\030\013\235\176\215\111\362\020
\112\177\371\325\106\057\031\222\243\231\247\046\254\273\214\074
\346\016\274\107\007\334\163\121\361\160\144\057\010\371\264\107
\035\060\154\104\352\051\067\205\222\150\146\274\203\070\376\173
\071\056\323\120\360\037\373\136\140\266\251\246\372\047\101\361
\233\030\162\362\365\204\164\112\311\147\304\124\256\110\144\337
\214\321\156\260\035\341\007\217\010\036\231\234\161\351\114\330
\245\367\107\022\037\164\321\121\236\206\363\302\242\043\100\013
\163\333\113\246\347\163\006\214\301\240\351\301\131\254\106\372
\346\057\370\317\161\234\106\155\271\304\025\215\070\171\003\105
\110\357\304\135\327\010\356\207\071\042\206\262\015\017\130\103
\367\161\251\110\056\375\352\326\037\002\003\001\000\001\243\201
\254\060\201\251\060\016\006\003\125\035\017\001\001\377\004\004
\003\002\001\006\060\017\006\003\125\035\023\001\001\377\004\005
\060\003\001\001\377\060\035\006\003\125\035\016\004\026\004\024
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\230\372\206\130\060\037\006\003\125\035\043\004\030\060\026\200
\024\027\240\315\301\344\101\266\072\133\073\313\105\235\275\034
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\167\151\163\163\163\151\147\156\056\143\157\155\057\060\015\006
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\000\163\306\201\340\047\322\055\017\340\225\060\342\232\101\177
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\032\202\260\142\253\136\127\022\037\337\313\335\165\240\300\135
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\042\307\204\271\033\215\043\227\077\355\045\340\317\145\273\365
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\311\155\251\014\014\170\252\140\306\126\217\001\132\014\150\274
\151\031\171\304\037\176\227\005\277\305\351\044\121\136\324\325
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\172\155\131\251\052\217\173\336\303\207\211\020\231\111\163\170
\310\075\275\121\065\164\052\325\361\176\151\033\052\273\073\275
\045\270\232\132\075\162\141\220\146\207\356\014\326\115\324\021
\164\013\152\376\013\003\374\243\125\127\211\376\112\313\256\133
\027\005\310\362\215\043\061\123\070\322\055\152\077\202\271\215
\010\152\367\136\101\164\156\303\021\176\007\254\051\140\221\077
\070\312\127\020\015\275\060\057\307\245\346\101\240\332\256\005
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\212\060\372\215\345\232\153\025\001\116\147\252\332\142\126\076
\204\010\146\322\304\066\175\247\076\020\374\210\340\324\200\345
\000\275\252\363\116\006\243\172\152\371\142\162\343\011\117\353
\233\016\001\043\361\237\273\174\334\334\154\021\227\045\262\362
\264\143\024\322\006\052\147\214\203\365\316\352\007\330\232\152
\036\354\344\012\273\052\114\353\011\140\071\316\312\142\330\056
\156
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "SwissSign Silver CA - G2"
Issuer: CN=SwissSign Silver CA - G2,O=SwissSign AG,C=CH
Serial Number:4f:1b:d4:2f:54:bb:2f:4b
Subject: CN=SwissSign Silver CA - G2,O=SwissSign AG,C=CH
Not Valid Before: Wed Oct 25 08:32:46 2006
Not Valid After : Sat Oct 25 08:32:46 2036
Fingerprint (SHA-256):
BE:6C:4D:A2:BB:B9:BA:59:B6:F3:93:97:68:37:42:46:C3:C0:05:99:3F:A9:8F:02:0D:1D:ED:BE:D4:8A:81:D5
Fingerprint (SHA1): 9B:AA:E5:9F:56:EE:21:CB:43:5A:BE:25:93:DF:A7:F0:40:D1:1D:CB
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Silver CA - G2"

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\233\252\345\237\126\356\041\313\103\132\276\045\223\337\247\360
\100\321\035\313
END
CKA_CERT_MD5_HASH
 MULTILINE_OCTAL
\340\006\241\311\175\317\311\374\015\300\126\165\226\330\142\023
END
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\041\060\037\006\003\125\004\003\023
\030\123\167\151\163\163\123\151\147\156\040\123\151\154\166\145
\162\040\103\101\040\055\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\117\033\324\057\124\273\057\113
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "SecureTrust CA"
#
# Issuer: CN=SecureTrust CA,O=SecureTrust Corporation,C=US
# Serial Number:0c:f0:8e:5c:08:16:a5:ad:42:7f:f0:eb:27:18:59:d0
# Subject: CN=SecureTrust CA,O=SecureTrust
 Corporation,C=US
# Not Valid Before: Tue Nov 07 19:31:18 2006
# Not Valid After : Mon Dec 31 19:40:55 2029
# Fingerprint (SHA-256):
F1:C1:B5:0A:E5:A2:0D:D8:03:0E:C9:F6:BC:24:82:3D:D3:67:B5:25:57:59:B4:E7:1B:61:FC:E9:F7:37:5D:73
# Fingerprint (SHA1): 87:82:C6:C3:04:35:3B:CF:D2:96:92:D2:59:3E:7D:44:D9:34:FF:11
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SecureTrust CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\040\060\036\006\003\125\004\012\023\027\123\145\143\165\162\145
\124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157
\156\061\027\060\025\006\003\125\004\003\023\016\123\145\143\165
\162\145\124\162\165\163\164\040\103\101
END
```

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\040\060\036\006\003\125\004\012\023\027\123\145\143\165\162\145
\124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157
\156\061\027\060\025\006\003\125\004\003\023\016\123\145\143\165
\162\145\124\162\165\163\164\040\103\101
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\014\360\216\134\010\026\245\255\102\177\360\353\047\030
\131\320
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\270\060\202\002\240\240\003\002\001\002\002\020\014
\360\216\134\010\026\245\255\102\177\360\353\047\030\131\320\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\110
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\040\060
\036\006\003\125\004\012\023\027\123\145\143\165\162\145\124\162
\165\163\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\027\060\025\006\003\125\004\003\023\016\123\145\143\165\162\145
\124\162\165\163\164\040\103\101\060\036\027\015\060\066\061\061
\060\067\061\071\063\061\061\070\132\027\015\062\071\061\062\063
\061\061\071\064\060\065\065\132\060\110\061\013\060\011\006\003
\125\004\006\023\002\125\123\061\040\060\036\006\003\125\004\012
\023\027\123\145\143\165\162\145\124\162\165\163\164\040\103\157
\162\160\157\162\141\164\151\157\156\061\027\060\025\006\003\125
\004\003\023\016\123\145\143\165\162\145\124\162\165\163\164\040
\103\101\060\202\001\042\060\015\006\011\052\206\110\206\367\015
\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202
\001\001\000\253\244\201\345\225\315\365\366\024\216\302\117\312
\324\342\170\225\130\234\101\341\015\231\100\044\027\071\221\063
\146\351\276\341\203\257\142\134\211\321\374\044\133\141\263\340
\021\021\101\034\035\156\360\270\273\370\336\247\201\272\246\110
\306\237\035\275\276\216\251\101\076\270\224\355\051\032\324\216
\322\003\035\003\357\155\015\147\034\127\327\006\255\312\310\365
\376\016\257\146\045\110\004\226\013\135\243\272\026\303\010\117
\321\106\370\024\134\362\310\136\001\231\155\375\210\314\206\250
\301\157\061\102\154\122\076\150\313\363\031\064\337\273\207\030
\126\200\046\304\320\334\300\157\337\336\240\302\221\026\240\144
\021\113\104\274\036\366\347\372\143\336\146\254\166\244\161\243
\354\066\224\150\172\167\244\261\347\016\057\201\172\342\265\162
\206\357\242\153\213\360\017\333\323\131\077\272\162\274\104\044
\234\343\163\263\367\257\127\057\102\046\235\251\164\272\000\122
\362\113\315\123\174\107\013\066\205\016\146\251\010\227\026\064
\127\301\146\367\200\343\355\160\124\307\223\340\056\050\025\131
\207\272\273\002\003\001\000\001\243\201\235\060\201\232\060\023
\006\011\053\006\001\004\001\202\067\024\002\004\006\036\004\000

\103\000\101\060\013\006\003\125\035\017\004\004\003\002\001\206
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001
\377\060\035\006\003\125\035\016\004\026\004\024\102\062\266\026
\372\004\375\376\135\113\172\303\375\367\114\100\035\132\103\257
\060\064\006\003\125\035\037\004\055\060\053\060\051\240\047\240
\045\206\043\150\164\164\160\072\057\057\143\162\154\056\163\145
\143\165\162\145\164\162\165\163\164\056\143\157\155\057\123\124
\103\101\056\143\162\154\060\020\006\011\053\006\001\004\001\202
\067\025\001\004\003\002\001\000\060\015\006\011\052\206\110\206
\367\015\001\001\005\005\000\003\202\001\001\000\060\355\117\112
\341\130\072\122\162\133\265\246\243\145\030\246\273\121\073\167
\351\235\352\323\237\134\340\105\145\173\015\312\133\342\160\120
\262\224\005\024\256\111\307\215\101\007\022\163\224\176\014\043
\041\375\274\020\177\140\020\132\162\365\230\016\254\354\271\177
\335\172\157\135\323\034\364\377\210\005\151\102\251\005\161\310
\267\254\046\350\056\264\214\152\377\161\334\270\261\337\231\274
\174\041\124\053\344\130\242\273\127\051\256\236\251\243\031\046
\017\231\056\010\260\357\375\151\317\231\032\011\215\343\247\237
\053\311\066\064\173\044\263\170\114\225\027\244\006\046\036\266
\144\122\066\137\140\147\331\234\305\005\164\013\347\147\043\322
\010\374\210\351\256\213\177\341\060\364\067\176\375\306\062\332
\055\236\104\060\060\154\356\007\336\322\064\374\322\377\100\366
\113\364\146\106\006\124\246\362\062\012\143\046\060\153\233\321
\334\213\107\272\341\271\325\142\320\242\240\364\147\005\170\051
\143\032\157\004\326\370\306\114\243\232\261\067\264\215\345\050
\113\035\236\054\302\270\150\274\355\002\356\061
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "SecureTrust CA"
Issuer: CN=SecureTrust CA,O=SecureTrust Corporation,C=US
Serial Number:0c:f0:8e:5c:08:16:a5:ad:42:7f:f0:eb:27:18:59:d0
Subject: CN=SecureTrust CA,O=SecureTrust Corporation,C=US
Not Valid Before: Tue Nov 07 19:31:18 2006
Not Valid After : Mon Dec 31 19:40:55 2029
Fingerprint (SHA-256):
F1:C1:B5:0A:E5:A2:0D:D8:03:0E:C9:F6:BC:24:82:3D:D3:67:B5:25:57:59:B4:E7:1B:61:FC:E9:F7:37:5D:73
Fingerprint (SHA1): 87:82:C6:C3:04:35:3B:CF:D2:96:92:D2:59:3E:7D:44:D9:34:FF:11
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL
 CK_FALSE
CKA_LABEL UTF8 "SecureTrust CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL

```
\207\202\306\303\004\065\073\317\322\226\222\322\131\076\175\104
\331\064\377\021
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\334\062\303\247\155\045\127\307\150\011\235\352\055\251\242\321
END
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\040\060\036\006\003\125\004\012\023\027\123\145\143\165\162\145
\124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157
\156\061\027\060\025\006\003\125\004\003\023\016\123\145\143\165
\162\145\124\162\165\163\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\014\360\216\134\010\026\245\255\102\177\360\353\047\030
\131\320
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Secure Global CA"
#
# Issuer: CN=Secure Global CA,O=SecureTrust
 Corporation,C=US
# Serial Number:07:56:22:a4:e8:d4:8a:89:4d:f4:13:c8:f0:f8:ea:a5
# Subject: CN=Secure Global CA,O=SecureTrust Corporation,C=US
# Not Valid Before: Tue Nov 07 19:42:28 2006
# Not Valid After : Mon Dec 31 19:52:06 2029
# Fingerprint (SHA-256):
42:00:F5:04:3A:C8:59:0E:BB:52:7D:20:9E:D1:50:30:29:FB:CB:D4:1C:A1:B5:06:EC:27:F1:5A:DE:7D:AC:69
# Fingerprint (SHA1): 3A:44:73:5A:E5:81:90:1F:24:86:61:46:1E:3B:9C:C4:5F:F5:3A:1B
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Secure Global CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\112\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\040\060\036\006\003\125\004\012\023\027\123\145\143\165\162\145
\124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157
\156\061\031\060\027\006\003\125\004\003\023\020\123\145\143\165
\162\145\040\107\154\157\142\141\154\040\103\101
END
CKA_ID
```

UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\112\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\040\060\036\006\003\125\004\012\023\027\123\145\143\165\162\145
\124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157
\156\061\031\060\027\006\003\125\004\003\023\020\123\145\143\165
\162\145\040\107\154\157\142\141\154\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\007\126\042\244\350\324\212\211\115\364\023\310\360\370
\352\245
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\274\060\202\002\244\240\003\002\001\002\002\020\007
\126\042\244\350\324\212\211\115\364\023\310\360\370\352\245\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\112
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\040\060
\036\006\003\125\004\012\023\027\123\145\143\165\162\145\124\162
\165\163\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\031\060\027\006\003\125\004\003\023\020\123\145\143\165\162\145
\040\107\154\157\142\141\154\040\103\101\060\036\027\015\060\066
\061\061\060\067\061\071\064\062\062\070\132\027\015\062\071\061
\062\063\061\061\071\065\062\060\066\132\060\112\061\013\060\011
\006\003\125\004\006\023\002\125\123\061\040\060\036\006\003\125
\004\012\023\027\123\145\143\165\162\145\124\162\165\163\164\040
\103\157\162\160\157\162\141\164\151\157\156\061\031\060\027\006
\003\125\004\003\023\020\123\145\143\165\162\145\040\107\154\157
\142\141\154\040\103\101\060\202\001\042\060\015\006\011\052\206
\110\206\367\015\001\001\001\005\000\003\202\001\017\000\060\202
\001\012\002\202\001\001\000\257\065\056\330\254\154\125\151\006
\161\345\023\150\044\263\117\330\314\041\107\370\361\140\070\211
\211\003\351\275\352\136\106\123\011\334\134\365\132\350\367\105
\052\002\353\061\141\327\051\063\114\316\307\174\012\067\176\017
\272\062\230\341\035\227\257\217\307\334\311\070\226\363\333\032
\374\121\355\150\306\320\156\244\174\044\321\256\102\310\226\120
\143\056\340\376\165\376\230\247\137\111\056\225\343\071\063\144
\216\036\244\137\220\322\147\074\262\331\376\101\271\125\247\011
\216\162\005\036\213\335\104\205\202\102\320\111\300\035\140\360
\321\027\054\225\353\366\245\301\222\243\305\302\247\010\140\015
\140\004\020\226\171\236\026\064\346\251\266\372\045\105\071\310
\036\145\371\223\365\252\361\122\334\231\230\075\245\206\032\014
\065\063\372\113\245\004\006\025\034\061\200\357\252\030\153\302
\173\327\332\316\371\063\040\325\365\275\152\063\055\201\004\373
\260\134\324\234\243\342\134\035\343\251\102\165\136\173\324\167
\357\071\124\272\311\012\030\033\022\231\111\057\210\113\375\120
\142\321\163\347\217\172\103\002\003\001\000\001\243\201\235\060
\201\232\060\023\006\011\053\006\001\004\001\202\067\024\002\004
\006\036\004\000\103\000\101\060\013\006\003\125\035\017\004\004

\003\002\001\206\060\017\006\003\125\035\023\001\001\377\004\005
\060\003\001\001\377\060\035\006\003\125\035\016\004\026\004\024
\257\104\004\302\101\176\110\203\333\116\071\002\354\354\204\172
\346\316\311\244\060\064\006\003\125\035\037\004\055\060\053\060
\051\240\047\240\045\206\043\150\164\164\160\072\057\057\143\162
\154\056\163\145\143\165\162\145\164\162\165\163\164\056\143\157
\155\057\123\107\103\101\056\143\162\154\060\020\006\011\053\006
\001\004\001\202\067\025\001\004\003\002\001\000\060\015\006\011
\052\206\110\206\367\015\001\001\005\005\000\003\202\001\001\000
\143\032\010\100\175\244\136\123\015\167\330\172\256\037\015\013
\121\026\003\357\030\174\310\343\257\152\130\223\024\140\221\262
\204\334\210\116\276\071\212\072\363\346\202\211\135\001\067\263
\253\044\244\025\016\222\065\132\112\104\136\116\127\372\165\316
\037\110\316\146\364\074\100\046\222\230\154\033\356\044\106\014
\027\263\122\245\333\245\221\221\317\067\323\157\347\047\010\072
\116\031\037\072\247\130\134\027\317\171\077\213\344\247\323\046
\043\235\046\017\130\151\374\107\176\262\320\215\213\223\277\051
\117\103\151\164\166\147\113\317\007\214\346\002\367\265\341\264
\103\265\113\055\024\237\371\334\046\015\277\246\107\164\006\330
\210\321\072\051\060\204\316\322\071\200\142\033\250\307\127\111
\274\152\125\121\147\025\112\276\065\007\344\325\165\230\067\171
\060\024\333\051\235\154\305\151\314\107\125\242\060\367\314\134
\177\302\303\230\034\153\116\026\200\353\172\170\145\105\242\000
\032\257\014\015\125\144\064\110\270\222\271\361\264\120\051\362
\117\043\037\332\154\254\037\104\341\335\043\170\121\133\307\026
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Secure Global CA"
Issuer: CN=Secure Global CA,O=SecureTrust Corporation,C=US
Serial Number:07:56:22:a4:e8:d4:8a:89:4d:f4:13:c8:f0:f8:ea:a5
Subject: CN=Secure Global CA,O=SecureTrust Corporation,C=US
Not Valid Before: Tue Nov 07 19:42:28 2006
Not Valid After : Mon Dec 31 19:52:06 2029
Fingerprint (SHA-256):
42:00:F5:04:3A:C8:59:0E:BB:52:7D:20:9E:D1:50:30:29:FB:CB:D4:1C:A1:B5:06:EC:27:F1:5A:DE:7D:AC:69
Fingerprint (SHA1): 3A:44:73:5A:E5:81:90:1F:24:86:61:46:1E:3B:9C:C4:5F:F5:3A:1B
CKA_CLASS
 CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Secure Global CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\072\104\163\132\345\201\220\037\044\206\141\106\036\073\234\304

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\137\365\072\033
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\317\364\047\015\324\355\334\145\026\111\155\075\332\277\156\336
END
CKA_ISSUER MULTILINE_OCTAL
\060\112\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\040\060\036\006\003\125\004\012\023\027\123\145\143\165\162\145
\124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157
\156\061\031\060\027\006\003\125\004\003\023\020\123\145\143\165
\162\145\040\107\154\157\142\141\154\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\007\126\042\244\350\324\212\211\115\364\023\310\360\370
\352\245
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING
 CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "COMODO Certification Authority"
#
# Issuer: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater
Manchester,C=GB
# Serial Number:4e:81:2d:8a:82:65:e0:0b:02:ee:3e:35:02:46:e5:3d
# Subject: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater
Manchester,C=GB
# Not Valid Before: Fri Dec 01 00:00:00 2006
# Not Valid After : Mon Dec 31 23:59:59 2029
# Fingerprint (SHA-256):
0C:2C:D6:3D:F7:80:6F:A3:99:ED:E8:09:11:6B:57:5B:F8:79:89:F0:65:18:F9:80:8C:86:05:03:17:8B:AF:66
# Fingerprint (SHA1): 66:31:BF:9E:F7:4F:9E:B6:C9:D5:A6:0C:BA:6A:BE:D1:F7:BD:EF:7B
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\201\061\013\060\011\006\003\125\004\006\023\002\107\102
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\040\103\101\040\114\151\155\151\164\145\144\061\047\060\045\006
```

\003\125\004\003\023\036\103\117\115\117\104\117\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\201\061\013\060\011\006\003\125\004\006\023\002\107\102
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\040\103\101\040\114\151\155\151\164\145\144\061\047\060\045\006
\003\125\004\003\023\036\103\117\115\117\104\117\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\116\201\055\212\202\145\340\013\002\356\076\065\002\106
\345\075
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\035\060\202\003\005\240\003\002\001\002\002\020\116
\201\055\212\202\145\340\013\002\356\076\065\002\106\345\075\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\201
\201\061\013\060\011\006\003\125\004\006\023\002\107\102\061\033
\060\031\006\003\125\004\010\023\022\107\162\145\141\164\145\162
\040\115\141\156\143\150\145\163\164\145\162\061\020\060\016\006
\003\125\004\007\023\007\123\141\154\146\157\162\144\061\032\060
\030\006\003\125\004\012\023\021\103\117\115\117\104\117\040\103
\101\040\114\151\155\151\164\145\144\061\047\060\045\006\003\125
\004\003\023\036\103\117\115\117\104\117\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\060\036\027\015\060\066\061\062\060\061\060\060\060\060
\060\060\132\027\015\062\071\061\062\063\061\062\063\065\071\065
\071\132\060\201\201\061\013\060\011\006\003\125\004\006\023\002
\107\102\061\033\060\031\006\003\125\004\010\023\022\107\162\145
\141\164\145\162\040\115\141\156\143\150\145\163\164\145\162\061
\020\060\016\006\003\125\004\007\023\007\123\141\154\146\157\162
\144\061\032\060\030\006\003\125\004\012\023\021\103\117\115\117
\104\117\040\103\101\040\114\151\155\151\164\145\144\061\047\060
\045\006\003\125\004\003\023\036\103\117\115\117\104\117\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164
\150\157\162\151\164\171\060\202\001\042\060\015\006\011\052\206
\110\206\367\015\001\001\001\005\000\003\202\001\017\000\060\202
\001\012\002\202\001\001\000\320\100\213\213\162\343\221\033\367
\121\301\033\124\004\230\323\251\277\301\346\212\135\073\207\373

\273\210\316\015\343\057\077\006\226\360\242\051\120\231\256\333
\073\241\127\260\164\121\161\315\355\102\221\115\101\376\251\310
\330\152\206\167\104\273\131\146\227\120\136\264\324\054\160\104
\317\332\067\225\102\151\074\060\304\161\263\122\360\041\115\241
\330\272\071\174\034\236\243\044\235\362\203\026\230\252\026\174
\103\233\025\133\267\256\064\221\376\324\142\046\030\106\232\077
\353\301\371\361\220\127\353\254\172\015\213\333\162\060\152\146
\325\340\106\243\160\334\150\331\377\004\110\211\167\336\265\351
\373\147\155\101\351\274\071\275\062\331\142\002\361\261\250\075
\156\067\234\342\057\342\323\242\046\213\306\270\125\103\210\341
\043\076\245\322\044\071\152\107\253\000\324\241\263\251\045\376
\015\077\247\035\272\323\121\301\013\244\332\254\070\357\125\120
\044\005\145\106\223\064\117\055\215\255\306\324\041\031\322\216
\312\005\141\161\007\163\107\345\212\031\022\275\004\115\316\116
\234\245\110\254\273\046\367\002\003\001\000\001\243\201\216\060
\201\213\060\035\006\003\125\035\016\004\026\004\024\013\130\345
\213\306\114\025\067\244\100\251\060\251\041\276\107\066\132\126
\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001
\006\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001
\001\377\060\111\006\003\125\035\037\004\102\060\100\060\076\240
\074\240\072\206\070\150\164\164\160\072\057\057\143\162\154\056
\143\157\155\157\144\157\143\141\056\143\157\155\057\103\117\115
\117\104\117\103\145\162\164\151\146\151\143\141\164\151\157\156
\101\165\164\150\157\162\151\164\171\056\143\162\154\060\015\006
\011\052\206\110\206\367\015\001\001\005\005\000\003\202\001\001
\000\076\230\236\233\366\033\351\327\071\267\170\256\035\162\030
\111\323\207\344\103\202\353\077\311\252\365\250\265\357\125\174
\041\122\145\371\325\015\341\154\364\076\214\223\163\221\056\002
\304\116\007\161\157\300\217\070\141\010\250\036\201\012\300\057
\040\057\101\213\221\334\110\105\274\361\306\336\272\166\153\063
\310\000\055\061\106\114\355\347\235\317\210\224\377\063\300\126
\350\044\206\046\270\330\070\070\337\052\153\335\022\314\307\077
\107\027\114\242\302\006\226\011\326\333\376\077\074\106\101\337
\130\342\126\017\074\073\301\034\223\065\331\070\122\254\356\310
\354\056\060\116\224\065\264\044\037\113\170\151\332\362\002\070
\314\225\122\223\360\160\045\131\234\040\147\304\356\371\213\127
\141\364\222\166\175\077\204\215\125\267\350\345\254\325\361\365
\031\126\246\132\373\220\034\257\223\353\345\034\324\147\227\135
\004\016\276\013\203\246\027\203\271\060\022\240\305\063\025\005
\271\015\373\307\005\166\343\330\112\215\374\064\027\243\306\041
\050\276\060\105\061\036\307\170\276\130\141\070\254\073\342\001
\145
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

```
# Trust for "COMODO Certification Authority"
# Issuer: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater
Manchester,C=GB
# Serial Number:4e:81:2d:8a:82:65:e0:0b:02:ee:3e:35:02:46:e5:3d
# Subject: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater
Manchester,C=GB
#
 Not Valid Before: Fri Dec 01 00:00:00 2006
# Not Valid After : Mon Dec 31 23:59:59 2029
# Fingerprint (SHA-256):
0C:2C:D6:3D:F7:80:6F:A3:99:ED:E8:09:11:6B:57:5B:F8:79:89:F0:65:18:F9:80:8C:86:05:03:17:8B:AF:66
# Fingerprint (SHA1): 66:31:BF:9E:F7:4F:9E:B6:C9:D5:A6:0C:BA:6A:BE:D1:F7:BD:EF:7B
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\146\061\277\236\367\117\236\266\311\325\246\014\272\152\276\321
\367\275\357\173
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\134\110\334\367\102\162\354\126\224\155\034\314\161\065\200\165
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\201\061\013\060\011\006\003\125\004\006\023\002\107\102
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\040\103\101\040\114\151\155\151\164\145\144\061\047\060\045\006
\003\125\004\003\023\036\103\117\115\117\104\117\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\116\201\055\212\202\145\340\013\002\356\076\065\002\106
\345\075
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "COMODO ECC Certification Authority"
#
```

```
# Issuer: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater
Manchester,C=GB
# Serial Number:1f:47:af:aa:62:00:70:50:54:4c:01:9e:9b:63:99:2a
# Subject: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater
Manchester,C=GB
# Not Valid Before: Thu Mar 06 00:00:00 2008
# Not Valid After : Mon Jan
 18 23:59:59 2038
# Fingerprint (SHA-256):
17:93:92:7A:06:14:54:97:89:AD:CE:2F:8F:34:F7:F0:B6:6D:0F:3A:E3:A3:B8:4D:21:EC:15:DB:BA:4F:AD:C7
# Fingerprint (SHA1): 9F:74:4E:9F:2B:4D:BA:EC:0F:31:2C:50:B6:56:3B:8E:2D:93:C3:11
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO ECC Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\205\061\013\060\011\006\003\125\004\006\023\002\107\102
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\040\103\101\040\114\151\155\151\164\145\144\061\053\060\051\006
\003\125\004\003\023\042\103\117\115\117\104\117\040\105\103\103
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\205\061\013\060\011\006\003\125\004\006\023\002\107\102
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\040\103\101\040\114\151\155\151\164\145\144\061\053\060\051\006
\003\125\004\003\023\042\103\117\115\117\104\117\040\105\103\103
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\037\107\257\252\142\000\160\120\124\114\001\236\233\143
\231\052
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\211\060\202\002\017\240\003\002\001\002\002\020\037
\107\257\252\142\000\160\120\124\114\001\236\233\143\231\052\060
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\012\006\010\052\206\110\316\075\004\003\003\060\201\205\061\013
\060\011\006\003\125\004\006\023\002\107\102\061\033\060\031\006
\003\125\004\010\023\022\107\162\145\141\164\145\162\040\115\141
\156\143\150\145\163\164\145\162\061\020\060\016\006\003\125\004
\007\023\007\123\141\154\146\157\162\144\061\032\060\030\006\003
\125\004\012\023\021\103\117\115\117\104\117\040\103\101\040\114
\151\155\151\164\145\144\061\053\060\051\006\003\125\004\003\023
\042\103\117\115\117\104\117\040\105\103\103\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171\060\036\027\015\060\070\060\063\060\066\060\060\060
\060\060\060\132\027\015\063\070\060\061\061\070\062\063\065\071
\065\071\132\060\201\205\061\013\060\011\006\003\125\004\006\023
\002\107\102\061\033\060\031\006\003\125\004\010\023\022\107\162
\145\141\164\145\162\040\115\141\156\143\150\145\163\164\145\162
\061\020\060\016\006\003\125\004\007\023\007\123\141\154\146\157
\162\144\061\032\060\030\006\003\125\004\012\023\021\103\117\115
\117\104\117\040\103\101\040\114\151\155\151\164\145\144\061\053
\060\051\006\003\125\004\003\023\042\103\117\115\117\104\117\040
\105\103\103\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\060\166\060\020\006
\007\052\206\110\316\075\002\001\006\005\053\201\004\000\042\003
\142\000\004\003\107\173\057\165\311\202\025\205\373\165\344\221
\026\324\253\142\231\365\076\122\013\006\316\101\000\177\227\341
\012\044\074\035\001\004\356\075\322\215\011\227\014\340\165\344
\372\373\167\212\052\365\003\140\113\066\213\026\043\026\255\011
\161\364\112\364\050\120\264\376\210\034\156\077\154\057\057\011
\131\133\245\133\013\063\231\342\303\075\211\371\152\054\357\262
\323\006\351\243\102\060\100\060\035\006\003\125\035\016\004\026
\004\024\165\161\247\031\110\031\274\235\235\352\101\107\337\224
\304\110\167\231\323\171\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\006\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\001\001\377\060\012\006\010\052\206\110\316\075
\004\003\003\003\150\000\060\145\002\061\000\357\003\133\172\254
\267\170\012\162\267\210\337\377\265\106\024\011\012\372\240\346
\175\010\306\032\207\275\030\250\163\275\046\312\140\014\235\316
\231\237\317\134\017\060\341\276\024\061\352\002\060\024\364\223
\074\111\247\063\172\220\106\107\263\143\175\023\233\116\267\157
\030\067\200\123\376\335\040\340\065\232\066\321\307\001\271\346
\334\335\363\377\035\054\072\026\127\331\222\071\326
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "COMODO ECC Certification Authority"
Issuer: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB

```
# Serial Number:1f:47:af:aa:62:00:70:50:54:4c:01:9e:9b:63:99:2a
# Subject: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater
Manchester,C=GB
# Not Valid Before: Thu Mar 06 00:00:00 2008
# Not Valid After : Mon Jan 18 23:59:59 2038
# Fingerprint
 (SHA-256):
17:93:92:7A:06:14:54:97:89:AD:CE:2F:8F:34:F7:F0:B6:6D:0F:3A:E3:A3:B8:4D:21:EC:15:DB:BA:4F:AD:C7
# Fingerprint (SHA1): 9F:74:4E:9F:2B:4D:BA:EC:0F:31:2C:50:B6:56:3B:8E:2D:93:C3:11
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO ECC Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\237\164\116\237\053\115\272\354\017\061\054\120\266\126\073\216
\055\223\303\021
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\174\142\377\164\235\061\123\136\150\112\325\170\252\036\277\043
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\205\061\013\060\011\006\003\125\004\006\023\002\107\102
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\040\103\101\040\114\151\155\151\164\145\144\061\053\060\051\006
\003\125\004\003\023\042\103\117\115\117\104\117\040\105\103\103
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\037\107\257\252\142\000\160\120\124\114\001\236\233\143
\231\052
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "OISTE WISeKey Global Root GA CA"
#
# Issuer: CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c)
2005,O=WISeKey,C=CH
# Serial Number:41:3d:72:c7:f4:6b:1f:81:43:7d:f1:d2:28:54:df:9a
```

```
# Subject: CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c)
2005,O=WISeKey,C=CH
# Not Valid Before: Sun Dec 11 16:03:44 2005
# Not Valid After : Fri Dec 11 16:09:51 2037
# Fingerprint (SHA-256):
41:C9:23:86:6A:B4:CA:D6:B7:AD:57:80:81:58:2E:02:07:97:A6:CB:DF:4F:FF:78:CE:83:96:B3:89:37:D7:F5
#
 Fingerprint (SHA1): 59:22:A1:E1:5A:EA:16:35:21:F8:98:39:6A:46:46:B0:44:1B:0F:A9
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WISeKey Global Root GA CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\212\061\013\060\011\006\003\125\004\006\023\002\103\110
\061\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113
\145\171\061\033\060\031\006\003\125\004\013\023\022\103\157\160
\171\162\151\147\150\164\040\050\143\051\040\062\060\060\065\061
\042\060\040\006\003\125\004\013\023\031\117\111\123\124\105\040
\106\157\165\156\144\141\164\151\157\156\040\105\156\144\157\162
\163\145\144\061\050\060\046\006\003\125\004\003\023\037\117\111
\123\124\105\040\127\111\123\145\113\145\171\040\107\154\157\142
\141\154\040\122\157\157\164\040\107\101\040\103\101
END
CKA_ID UTF8
 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\212\061\013\060\011\006\003\125\004\006\023\002\103\110
\061\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113
\145\171\061\033\060\031\006\003\125\004\013\023\022\103\157\160
\171\162\151\147\150\164\040\050\143\051\040\062\060\060\065\061
\042\060\040\006\003\125\004\013\023\031\117\111\123\124\105\040
\106\157\165\156\144\141\164\151\157\156\040\105\156\144\157\162
\163\145\144\061\050\060\046\006\003\125\004\003\023\037\117\111
\123\124\105\040\127\111\123\145\113\145\171\040\107\154\157\142
\141\154\040\122\157\157\164\040\107\101\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\101\075\162\307\364\153\037\201\103\175\361\322\050\124
\337\232
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\361\060\202\002\331\240\003\002\001\002\002\020\101
\075\162\307\364\153\037\201\103\175\361\322\050\124\337\232\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\201
\212\061\013\060\011\006\003\125\004\006\023\002\103\110\061\020
\060\016\006\003\125\004\012\023\007\127\111\123\145\113\145\171
```

\061\033\060\031\006\003\125\004\013\023\022\103\157\160\171\162
\151\147\150\164\040\050\143\051\040\062\060\060\065\061\042\060
\040\006\003\125\004\013\023\031\117\111\123\124\105\040\106\157
\165\156\144\141\164\151\157\156\040\105\156\144\157\162\163\145
\144\061\050\060\046\006\003\125\004\003\023\037\117\111\123\124
\105\040\127\111\123\145\113\145\171\040\107\154\157\142\141\154
\040\122\157\157\164\040\107\101\040\103\101\060\036\027\015\060
\065\061\062\061\061\061\066\060\063\064\064\132\027\015\063\067
\061\062\061\061\061\066\060\071\065\061\132\060\201\212\061\013
\060\011\006\003\125\004\006\023\002\103\110\061\020\060\016\006
\003\125\004\012\023\007\127\111\123\145\113\145\171\061\033\060
\031\006\003\125\004\013\023\022\103\157\160\171\162\151\147\150
\164\040\050\143\051\040\062\060\060\065\061\042\060\040\006\003
\125\004\013\023\031\117\111\123\124\105\040\106\157\165\156\144
\141\164\151\157\156\040\105\156\144\157\162\163\145\144\061\050
\060\046\006\003\125\004\003\023\037\117\111\123\124\105\040\127
\111\123\145\113\145\171\040\107\154\157\142\141\154\040\122\157
\157\164\040\107\101\040\103\101\060\202\001\042\060\015\006\011
\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017\000
\060\202\001\012\002\202\001\001\000\313\117\263\000\233\075\066
\335\371\321\111\152\153\020\111\037\354\330\053\262\306\370\062
\201\051\103\225\114\232\031\043\041\025\105\336\343\310\034\121
\125\133\256\223\350\067\377\053\153\351\324\352\276\052\335\250
\121\053\327\146\303\141\134\140\002\310\365\316\162\173\073\270
\362\116\145\010\232\315\244\152\031\301\001\273\163\246\327\366
\303\335\315\274\244\213\265\231\141\270\001\242\243\324\115\324
\005\075\221\255\370\264\010\161\144\257\160\361\034\153\176\366
\303\167\235\044\163\173\344\014\214\341\331\066\341\231\213\005
\231\013\355\105\061\011\312\302\000\333\367\162\240\226\252\225
\207\320\216\307\266\141\163\015\166\146\214\334\033\264\143\242
\237\177\223\023\060\361\241\047\333\331\377\054\125\210\221\240
\340\117\007\260\050\126\214\030\033\227\104\216\211\335\340\027
\156\347\052\357\217\071\012\061\204\202\330\100\024\111\056\172
\101\344\247\376\343\144\314\301\131\161\113\054\041\247\133\175
\340\035\321\056\201\233\303\330\150\367\275\226\033\254\160\261
\026\024\013\333\140\271\046\001\005\002\003\001\000\001\243\121
\060\117\060\013\006\003\125\035\017\004\004\003\002\001\206\060
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377
\060\035\006\003\125\035\016\004\026\004\024\263\003\176\256\066
\274\260\171\321\334\224\046\266\021\276\041\262\151\206\224\060
\020\006\011\053\006\001\004\001\202\067\025\001\004\003\002\001
\000\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000
\003\202\001\001\000\113\241\377\013\207\156\263\371\301\103\261
\110\363\050\300\035\056\311\011\101\372\224\000\034\244\244\253
\111\117\217\075\036\357\115\157\275\274\244\366\362\046\060\311
\020\312\035\210\373\164\031\037\205\105\275\260\154\121\371\066
\176\333\365\114\062\072\101\117\133\107\317\350\013\055\266\304
\031\235\164\305\107\306\073\152\017\254\024\333\074\364\163\234

\251\005\337\000\334\164\170\372\370\065\140\131\002\023\030\174
\274\373\115\260\040\155\103\273\140\060\172\147\063\134\305\231
\321\370\055\071\122\163\373\214\252\227\045\134\162\331\010\036
\253\116\074\343\201\061\237\003\246\373\300\376\051\210\125\332
\204\325\120\003\266\342\204\243\246\066\252\021\072\001\341\030
\113\326\104\150\263\075\371\123\164\204\263\106\221\106\226\000
\267\200\054\266\341\343\020\342\333\242\347\050\217\001\226\142
\026\076\000\343\034\245\066\201\030\242\114\122\166\300\021\243
\156\346\035\272\343\132\276\066\123\305\076\165\217\206\151\051
\130\123\265\234\273\157\237\134\305\030\354\335\057\341\230\311
\374\276\337\012\015
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

#
Trust for "OISTE WISeKey Global Root GA CA"
Issuer: CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c) 2005,O=WISeKey,C=CH
Serial Number:41:3d:72:c7:f4:6b:1f:81:43:7d:f1:d2:28:54:df:9a
Subject: CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c) 2005,O=WISeKey,C=CH
Not Valid Before: Sun Dec 11 16:03:44 2005
Not Valid After : Fri Dec 11 16:09:51 2037
Fingerprint (SHA-256): 41:C9:23:86:6A:B4:CA:D6:B7:AD:57:80:81:58:2E:02:07:97:A6:CB:DF:4F:FF:78:CE:83:96:B3:89:37:D7:F5
Fingerprint (SHA1): 59:22:A1:E1:5A:EA:16:35:21:F8:98:39:6A:46:46:B0:44:1B:0F:A9
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WISeKey Global Root GA CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\131\042\241\341\132\352\026\065\041\370\230\071\152\106\106\260
\104\033\017\251
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\274\154\121\063\247\351\323\146\143\124\025\162\033\041\222\223
END
CKA_ISSUER
MULTILINE_OCTAL
\060\201\212\061\013\060\011\006\003\125\004\006\023\002\103\110
\061\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113
\145\171\061\033\060\031\006\003\125\004\013\023\022\103\157\160
\171\162\151\147\150\164\040\050\143\051\040\062\060\060\065\061
\042\060\040\006\003\125\004\013\023\031\117\111\123\124\105\040

```
\106\157\165\156\144\141\164\151\157\156\040\105\156\144\157\162
\163\145\144\061\050\060\046\006\003\125\004\003\023\037\117\111
\123\124\105\040\127\111\123\145\113\145\171\040\107\154\157\142
\141\154\040\122\157\157\164\040\107\101\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\101\075\162\307\364\153\037\201\103\175\361\322\050\124
\337\232
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Certigna"
#
#
 Issuer: CN=Certigna,O=Dhimyotis,C=FR
# Serial Number:00:fe:dc:e3:01:0f:c9:48:ff
# Subject: CN=Certigna,O=Dhimyotis,C=FR
# Not Valid Before: Fri Jun 29 15:13:05 2007
# Not Valid After : Tue Jun 29 15:13:05 2027
# Fingerprint (SHA-256):
E3:B6:A2:DB:2E:D7:CE:48:84:2F:7A:C5:32:41:C7:B7:1D:54:14:4B:FB:40:C1:1F:3F:1D:0B:42:F5:EE:A1:2D
# Fingerprint (SHA1): B1:2E:13:63:45:86:A4:6F:1A:B2:60:68:37:58:2D:C4:AC:FD:94:97
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certigna"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\064\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157
\164\151\163\061\021\060\017\006\003\125\004\003\014\010\103\145
\162\164\151\147\156\141
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\064\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157
\164\151\163\061\021\060\017\006\003\125\004\003\014\010\103\145
\162\164\151\147\156\141
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\011\000\376\334\343\001\017\311\110\377
```

END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\250\060\202\002\220\240\003\002\001\002\002\011\000
\376\334\343\001\017\311\110\377\060\015\006\011\052\206\110\206
\367\015\001\001\005\005\000\060\064\061\013\060\011\006\003\125
\004\006\023\002\106\122\061\022\060\020\006\003\125\004\012\014
\011\104\150\151\155\171\157\164\151\163\061\021\060\017\006\003
\125\004\003\014\010\103\145\162\164\151\147\156\141\060\036\027
\015\060\067\060\066\062\071\061\065\061\063\060\065\132\027\015
\062\067\060\066\062\071\061\065\061\063\060\065\132\060\064\061
\013\060\011\006\003\125\004\006\023\002\106\122\061\022\060\020
\006\003\125\004\012\014\011\104\150\151\155\171\157\164\151\163
\061\021\060\017\006\003\125\004\003\014\010\103\145\162\164\151
\147\156\141\060\202\001\042\060\015\006\011\052\206\110\206\367
\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002
\202\001\001\000\310\150\361\311\326\326\263\064\165\046\202\036
\354\264\276\352\134\341\046\355\021\107\141\341\242\174\026\170
\100\041\344\140\236\132\310\143\341\304\261\226\222\377\030\155
\151\043\341\053\142\367\335\342\066\057\221\007\271\110\317\016
\354\171\266\054\347\064\113\160\010\045\243\074\207\033\031\362
\201\007\017\070\220\031\323\021\376\206\264\362\321\136\036\036
\226\315\200\154\316\073\061\223\266\362\240\320\251\225\022\175
\245\232\314\153\310\204\126\212\063\251\347\042\025\123\026\360
\314\027\354\127\137\351\242\012\230\011\336\343\137\234\157\334
\110\343\205\013\025\132\246\272\237\254\110\343\011\262\367\364
\062\336\136\064\276\034\170\135\102\133\316\016\042\217\115\220
\327\175\062\030\263\013\054\152\277\216\077\024\021\211\040\016
\167\024\265\075\224\010\207\367\045\036\325\262\140\000\354\157
\052\050\045\156\052\076\030\143\027\045\077\076\104\040\026\366
\046\310\045\256\005\112\264\347\143\054\363\214\026\123\176\134
\373\021\032\010\301\106\142\237\042\270\361\302\215\151\334\372
\072\130\006\337\002\003\001\000\001\243\201\274\060\201\271\060
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377
\060\035\006\003\125\035\016\004\026\004\024\032\355\376\101\071
\220\264\044\131\276\001\362\122\325\105\366\132\071\334\021\060
\144\006\003\125\035\043\004\135\060\133\200\024\032\355\376\101
\071\220\264\044\131\276\001\362\122\325\105\366\132\071\334\021
\241\070\244\066\060\064\061\013\060\011\006\003\125\004\006\023
\002\106\122\061\022\060\020\006\003\125\004\012\014\011\104\150
\151\155\171\157\164\151\163\061\021\060\017\006\003\125\004\003
\014\010\103\145\162\164\151\147\156\141\202\011\000\376\334\343
\001\017\311\110\377\060\016\006\003\125\035\017\001\001\377\004
\004\003\002\001\006\060\021\006\011\140\206\110\001\206\370\102
\001\001\004\004\003\002\000\007\060\015\006\011\052\206\110\206
\367\015\001\001\005\005\000\003\202\001\001\000\205\003\036\222
\161\366\102\257\341\243\141\236\353\363\300\017\362\245\324\332
\225\346\326\276\150\066\075\176\156\037\114\212\357\321\017\041
\155\136\245\122\143\316\022\370\357\052\332\157\353\067\376\023

\002\307\313\073\076\042\153\332\141\056\177\324\162\075\335\060
\341\036\114\100\031\214\017\327\234\321\203\060\173\230\131\334
\175\306\271\014\051\114\241\063\242\353\147\072\145\204\323\226
\342\355\166\105\160\217\265\053\336\371\043\326\111\156\074\024
\265\306\237\065\036\120\320\301\217\152\160\104\002\142\313\256
\035\150\101\247\252\127\350\123\252\007\322\006\366\325\024\006
\013\221\003\165\054\154\162\265\141\225\232\015\213\271\015\347
\365\337\124\315\336\346\330\326\011\010\227\143\345\301\056\260
\267\104\046\300\046\300\257\125\060\236\073\325\066\052\031\004
\364\134\036\377\317\054\267\377\320\375\207\100\021\325\021\043
\273\110\300\041\251\244\050\055\375\025\370\260\116\053\364\060
\133\041\374\021\221\064\276\101\357\173\235\227\165\377\227\225
\300\226\130\057\352\273\106\327\273\344\331\056
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Certigna"
Issuer: CN=Certigna,O=Dhimyotis,C=FR
Serial Number:00:fe:dc:e3:01:0f:c9:48:ff
Subject: CN=Certigna,O=Dhimyotis,C=FR
Not Valid Before: Fri Jun 29 15:13:05 2007
Not Valid After : Tue Jun 29 15:13:05 2027
Fingerprint (SHA-256):
E3:B6:A2:DB:2E:D7:CE:48:84:2F:7A:C5:32:41:C7:B7:1D:54:14:4B:FB:40:C1:1F:3F:1D:0B:42:F5:EE:A1:2D
Fingerprint (SHA1): B1:2E:13:63:45:86:A4:6F:1A:B2:60:68:37:58:2D:C4:AC:FD:94:97
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certigna"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\261\056\023\143\105\206\244\157\032\262\140\150\067\130\055\304
\254\375\224\227
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\253\127\246\133\175\102\202\031\265\330\130\046\050\136\375\377
END
CKA_ISSUER
MULTILINE_OCTAL
\060\064\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157
\164\151\163\061\021\060\017\006\003\125\004\003\014\010\103\145
\162\164\151\147\156\141
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\011\000\376\334\343\001\017\311\110\377
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "ePKI Root Certification Authority"
#
Issuer: OU=ePKI Root Certification Authority,O="Chunghwa Telecom Co., Ltd.",C=TW
Serial Number:15:c8:bd:65:47:5c:af:b8:97:00:5e:e4:06:d2:bc:9d
Subject: OU=ePKI Root Certification Authority,O="Chunghwa Telecom Co., Ltd.",C=TW
Not Valid Before: Mon Dec 20 02:31:27 2004
Not Valid After : Wed Dec 20 02:31:27 2034
Fingerprint (SHA-256):
C0:A6:F4:DC:63:A2:4B:FD:CF:54:EF:2A:6A:08:2A:0A:72:DE:35:80:3E:2F:F5:FF:52:7A:E5:D8:72:06:DF:D5
#
 Fingerprint (SHA1): 67:65:0D:F1:7E:8E:7E:5B:82:40:A4:F4:56:4B:CF:E2:3D:69:C6:F0
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ePKI Root Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\136\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150
\167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040
\114\164\144\056\061\052\060\050\006\003\125\004\013\014\041\145
\120\113\111\040\122\157\157\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\136\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150
\167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040
\114\164\144\056\061\052\060\050\006\003\125\004\013\014\041\145
\120\113\111\040\122\157\157\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\025\310\275\145\107\134\257\270\227\000\136\344\006\322
\274\235
END
CKA_VALUE MULTILINE_OCTAL

\060\202\005\260\060\202\003\230\240\003\002\001\002\002\020\025
\310\275\145\107\134\257\270\227\000\136\344\006\322\274\235\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\136
\061\013\060\011\006\003\125\004\006\023\002\124\127\061\043\060
\041\006\003\125\004\012\014\032\103\150\165\156\147\150\167\141
\040\124\145\154\145\143\157\155\040\103\157\056\054\040\114\164
\144\056\061\052\060\050\006\003\125\004\013\014\041\145\120\113
\111\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\060\036
\027\015\060\064\061\062\062\060\060\062\063\061\062\067\132\027
\015\063\064\061\062\062\060\060\062\063\061\062\067\132\060\136
\061\013\060\011\006\003\125\004\006\023\002\124\127\061\043\060
\041\006\003\125\004\012\014\032\103\150\165\156\147\150\167\141
\040\124\145\154\145\143\157\155\040\103\157\056\054\040\114\164
\144\056\061\052\060\050\006\003\125\004\013\014\041\145\120\113
\111\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\060\202
\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005
\000\003\202\002\017\000\060\202\002\012\002\202\002\001\000\341
\045\017\356\215\333\210\063\165\147\315\255\037\175\072\116\155
\235\323\057\024\363\143\164\313\001\041\152\067\352\204\120\007
\113\046\133\011\103\154\041\236\152\310\325\003\365\140\151\217
\314\360\042\344\037\347\367\152\042\061\267\054\025\362\340\376
\000\152\103\377\207\145\306\265\032\301\247\114\155\042\160\041
\212\061\362\227\164\211\011\022\046\034\236\312\331\022\242\225
\074\332\351\147\277\010\240\144\343\326\102\267\105\357\227\364
\366\365\327\265\112\025\002\130\175\230\130\113\140\274\315\327
\015\232\023\063\123\321\141\371\172\325\327\170\263\232\063\367
\000\206\316\035\115\224\070\257\250\354\170\121\160\212\134\020
\203\121\041\367\021\075\064\206\136\345\110\315\227\201\202\065
\114\031\354\145\366\153\305\005\241\356\107\023\326\263\041\047
\224\020\012\331\044\073\272\276\104\023\106\060\077\227\074\330
\327\327\152\356\073\070\343\053\324\227\016\271\033\347\007\111
\177\067\052\371\167\170\317\124\355\133\106\235\243\200\016\221
\103\301\326\133\137\024\272\237\246\215\044\107\100\131\277\162
\070\262\066\154\067\377\231\321\135\016\131\012\253\151\367\300
\262\004\105\172\124\000\256\276\123\366\265\347\341\370\074\243
\061\322\251\376\041\122\144\305\246\147\360\165\007\006\224\024
\201\125\306\047\344\001\217\027\301\152\161\327\276\113\373\224
\130\175\176\021\063\261\102\367\142\154\030\326\317\011\150\076
\177\154\366\036\217\142\255\245\143\333\011\247\037\042\102\101
\036\157\231\212\076\327\371\077\100\172\171\260\245\001\222\322
\235\075\010\025\245\020\001\055\263\062\166\250\225\015\263\172
\232\373\007\020\170\021\157\341\217\307\272\017\045\032\164\052
\345\034\230\101\231\337\041\207\350\225\006\152\012\263\152\107
\166\145\366\072\317\217\142\027\031\173\012\050\315\032\322\203
\036\041\307\054\277\276\377\141\150\267\147\033\273\170\115\215
\316\147\345\344\301\216\267\043\146\342\235\220\165\064\230\251

\066\053\212\232\224\271\235\354\314\212\261\370\045\211\134\132
\266\057\214\037\155\171\044\247\122\150\303\204\065\342\146\215
\143\016\045\115\325\031\262\346\171\067\247\042\235\124\061\002
\003\001\000\001\243\152\060\150\060\035\006\003\125\035\016\004
\026\004\024\036\014\367\266\147\362\341\222\046\011\105\300\125
\071\056\167\077\102\112\242\060\014\006\003\125\035\023\004\005
\060\003\001\001\377\060\071\006\004\147\052\007\000\004\061\060
\057\060\055\002\001\000\060\011\006\005\053\016\003\002\032\005
\000\060\007\006\005\147\052\003\000\000\004\024\105\260\302\307
\012\126\174\356\133\170\014\225\371\030\123\301\246\034\330\020
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\003
\202\002\001\000\011\263\203\123\131\001\076\225\111\271\361\201
\272\371\166\040\043\265\047\140\164\324\152\231\064\136\154\000
\123\331\237\362\246\261\044\007\104\152\052\306\245\216\170\022
\350\107\331\130\033\023\052\136\171\233\237\012\052\147\246\045
\077\006\151\126\163\303\212\146\110\373\051\201\127\164\006\312
\234\352\050\350\070\147\046\053\361\325\265\077\145\223\370\066
\135\216\215\215\100\040\207\031\352\357\047\300\075\264\071\017
\045\173\150\120\164\125\234\014\131\175\132\075\101\224\045\122
\010\340\107\054\025\061\031\325\277\007\125\306\273\022\265\227
\364\137\203\205\272\161\301\331\154\201\021\166\012\012\260\277
\202\227\367\352\075\372\372\354\055\251\050\224\073\126\335\322
\121\056\256\300\275\010\025\214\167\122\064\226\326\233\254\323
\035\216\141\017\065\173\233\256\071\151\013\142\140\100\040\066
\217\257\373\066\356\055\010\112\035\270\277\233\134\370\352\245
\033\240\163\246\330\370\156\340\063\004\137\150\252\047\207\355
\331\301\220\234\355\275\343\152\065\257\143\337\253\030\331\272
\346\351\112\352\120\212\017\141\223\036\342\055\031\342\060\224
\065\222\135\016\266\007\257\031\200\217\107\220\121\113\056\115
\335\205\342\322\012\122\012\027\232\374\032\260\120\002\345\001
\243\143\067\041\114\104\304\233\121\231\021\016\163\234\006\217
\124\056\247\050\136\104\071\207\126\055\067\275\205\104\224\341
\014\113\054\234\303\222\205\064\141\313\017\270\233\112\103\122
\376\064\072\175\270\351\051\334\166\251\310\060\370\024\161\200
\306\036\066\110\164\042\101\134\207\202\350\030\161\213\101\211
\104\347\176\130\133\250\270\215\023\351\247\154\303\107\355\263
\032\235\142\256\215\202\352\224\236\335\131\020\303\255\335\342
\115\343\061\325\307\354\350\362\260\376\222\036\026\012\032\374
\331\363\370\047\266\311\276\035\264\154\144\220\177\364\344\304
\133\327\067\256\102\016\335\244\032\157\174\210\124\305\026\156
\341\172\150\056\370\072\277\015\244\074\211\073\170\247\116\143
\203\004\041\010\147\215\362\202\111\320\133\375\261\315\017\203
\204\324\076\040\205\367\112\075\053\234\375\052\012\011\115\352
\201\370\021\234
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

```
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "ePKI Root Certification Authority"
# Issuer: OU=ePKI Root Certification Authority,O="Chunghwa Telecom Co., Ltd.",C=TW
# Serial Number:15:c8:bd:65:47:5c:af:b8:97:00:5e:e4:06:d2:bc:9d
# Subject: OU=ePKI Root Certification Authority,O="Chunghwa Telecom Co., Ltd.",C=TW
# Not Valid Before: Mon Dec 20 02:31:27 2004
# Not Valid After : Wed Dec 20 02:31:27 2034
# Fingerprint (SHA-256):
C0:A6:F4:DC:63:A2:4B:FD:CF:54:EF:2A:6A:08:2A:0A:72:DE:35:80:3E:2F:F5:FF:52:7A:E5:D8:72:06:DF:D5
# Fingerprint (SHA1): 67:65:0D:F1:7E:8E:7E:5B:82:40:A4:F4:56:4B:CF:E2:3D:69:C6:F0
CKA_CLASS
 CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ePKI Root Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\147\145\015\361\176\216\176\133\202\100\244\364\126\113\317\342
\075\151\306\360
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\033\056\000\312\046\006\220\075\255\376\157\025\150\323\153\263
END
CKA_ISSUER MULTILINE_OCTAL
\060\136\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150
\167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040
\114\164\144\056\061\052\060\050\006\003\125\004\013\014\041\145
\120\113\111\040\122\157\157\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\025\310\275\145\107\134\257\270\227\000\136\344\006\322
\274\235
END
CKA_TRUST_SERVER_AUTH
 CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "certSIGN ROOT CA"
#
# Issuer: OU=certSIGN ROOT CA,O=certSIGN,C=RO
# Serial Number:20:06:05:16:70:02
# Subject: OU=certSIGN ROOT CA,O=certSIGN,C=RO
```

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# Not Valid Before: Tue Jul 04 17:20:04 2006
# Not Valid After : Fri Jul 04 17:20:04 2031
# Fingerprint (SHA-256):
EA:A9:62:C4:FA:4A:6B:AF:EB:E4:15:19:6D:35:1C:CD:88:8D:4F:53:F3:FA:8A:E6:D7:C4:66:A9:4E:60:42:BB
# Fingerprint (SHA1): FA:B7:EE:36:97:26:62:FB:2D:B0:2A:F6:BF:03:FD:E8:7C:4B:2F:9B
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "certSIGN ROOT CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\073\061\013\060\011\006\003\125\004\006\023\002\122\117\061
\021\060\017\006\003\125\004\012\023\010\143\145\162\164\123\111
\107\116\061\031\060\027\006\003\125\004\013\023\020\143\145\162
\164\123\111\107\116\040\122\117\117\124\040\103\101
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\073\061\013\060\011\006\003\125\004\006\023\002\122\117\061
\021\060\017\006\003\125\004\012\023\010\143\145\162\164\123\111
\107\116\061\031\060\027\006\003\125\004\013\023\020\143\145\162
\164\123\111\107\116\040\122\117\117\124\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\006\040\006\005\026\160\002
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\070\060\202\002\040\240\003\002\001\002\002\006\040
\006\005\026\160\002\060\015\006\011\052\206\110\206\367\015\001
\001\005\005\000\060\073\061\013\060\011\006\003\125\004\006\023
\002\122\117\061\021\060\017\006\003\125\004\012\023\010\143\145
\162\164\123\111\107\116\061\031\060\027\006\003\125\004\013\023
\020\143\145\162\164\123\111\107\116\040\122\117\117\124\040\103
\101\060\036\027\015\060\066\060\067\060\064\061\067\062\060\060
\064\132\027\015\063\061\060\067\060\064\061\067\062\060\060\064
\132\060\073\061\013\060\011\006\003\125\004\006\023\002\122\117
\061\021\060\017\006\003\125\004\012\023\010\143\145\162\164\123
\111\107\116\061\031\060\027\006\003\125\004\013\023\020\143\145
\162\164\123\111\107\116\040\122\117\117\124\040\103\101\060\202
\001\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005
\000\003\202\001\017\000\060\202\001\012\002\202\001\001\000\267
\063\271\176\310\045\112\216\265\333\264\050\033\252\127\220\350
\321\042\323\144\272\323\223\350\324\254\206\141\100\152\140\127
\150\124\204\115\274\152\124\002\005\377\337\233\232\052\256\135
\007\217\112\303\050\177\357\373\053\372\171\361\307\255\360\020
\123\044\220\213\146\311\250\210\253\257\132\243\000\351\276\272
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\106\356\133\163\173\054\027\202\201\136\142\054\241\002\145\263
\275\305\053\000\176\304\374\003\063\127\015\355\342\372\316\135
\105\326\070\315\065\266\262\301\320\234\201\112\252\344\262\001
\134\035\217\137\231\304\261\255\333\210\041\353\220\010\202\200
\363\060\243\103\346\220\202\256\125\050\111\355\133\327\251\020
\070\016\376\217\114\133\233\106\352\101\365\260\010\164\303\320
\210\063\266\174\327\164\337\334\204\321\103\016\165\071\241\045
\100\050\352\170\313\016\054\056\071\235\214\213\156\026\034\057
\046\202\020\342\343\145\224\012\004\300\136\367\135\133\370\020
\342\320\272\172\113\373\336\067\000\000\032\133\050\343\322\234
\163\076\062\207\230\241\311\121\057\327\336\254\063\263\117\002
\003\001\000\001\243\102\060\100\060\017\006\003\125\035\023\001
\001\377\004\005\060\003\001\001\377\060\016\006\003\125\035\017
\001\001\377\004\004\003\002\001\306\060\035\006\003\125\035\016
\004\026\004\024\340\214\233\333\045\111\263\361\174\206\326\262
\102\207\013\320\153\240\331\344\060\015\006\011\052\206\110\206
\367\015\001\001\005\005\000\003\202\001\001\000\076\322\034\211
\056\065\374\370\165\335\346\177\145\210\364\162\114\311\054\327
\062\116\363\335\031\171\107\275\216\073\133\223\017\120\111\044
\023\153\024\006\162\357\011\323\241\241\343\100\204\311\347\030
\062\164\074\110\156\017\237\113\324\367\036\323\223\206\144\124
\227\143\162\120\325\125\317\372\040\223\002\242\233\303\043\223
\116\026\125\166\240\160\171\155\315\041\037\317\057\055\274\031
\343\210\061\370\131\032\201\011\310\227\246\164\307\140\304\133
\314\127\216\262\165\375\033\002\011\333\131\157\162\223\151\367
\061\101\326\210\070\277\207\262\275\026\171\371\252\344\276\210
\045\335\141\047\043\034\265\061\007\004\066\264\032\220\275\240
\164\161\120\211\155\274\024\343\017\206\256\361\253\076\307\240
\011\314\243\110\321\340\333\144\347\222\265\317\257\162\103\160
\213\371\303\204\074\023\252\176\222\233\127\123\223\372\160\302
\221\016\061\371\233\147\135\351\226\070\136\137\263\163\116\210
\025\147\336\236\166\020\142\040\276\125\151\225\103\000\071\115
\366\356\260\132\116\111\104\124\130\137\102\203
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL
 CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "certSIGN ROOT CA"
Issuer: OU=certSIGN ROOT CA,O=certSIGN,C=RO
Serial Number:20:06:05:16:70:02
Subject: OU=certSIGN ROOT CA,O=certSIGN,C=RO
Not Valid Before: Tue Jul 04 17:20:04 2006
Not Valid After : Fri Jul 04 17:20:04 2031
Fingerprint (SHA-256):
EA:A9:62:C4:FA:4A:6B:AF:EB:E4:15:19:6D:35:1C:CD:88:8D:4F:53:F3:FA:8A:E6:D7:C4:66:A9:4E:60:42:BB

```
# Fingerprint (SHA1): FA:B7:EE:36:97:26:62:FB:2D:B0:2A:F6:BF:03:FD:E8:7C:4B:2F:9B
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "certSIGN ROOT CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\372\267\356\066\227\046\142\373\055\260\052\366\277\003\375\350
\174\113\057\233
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\030\230\300\326\351\072\374\371\260\365\014\367\113\001\104\027
END
CKA_ISSUER MULTILINE_OCTAL
\060\073\061\013\060\011\006\003\125\004\006\023\002\122\117\061
\021\060\017\006\003\125\004\012\023\010\143\145\162\164\123\111
\107\116\061\031\060\027\006\003\125\004\013\023\020\143\145\162
\164\123\111\107\116\040\122\117\117\124\040\103\101
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\006\040\006\005\026\160\002
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "NetLock Arany (Class Gold) Ftanúsítvány"
#
# Issuer: CN=NetLock Arany (Class Gold) F..tan..s..tv..ny,OU=Tan..s..tv..nykiad..k (Certification
Services),O=NetLock Kft.,L=Budapest,C=HU
# Serial Number:49:41:2c:e4:00:10
# Subject: CN=NetLock Arany (Class Gold) F..tan..s..tv..ny,OU=Tan..s..tv..nykiad..k (Certification
Services),O=NetLock Kft.,L=Budapest,C=HU
# Not Valid Before: Thu Dec 11 15:08:21 2008
# Not Valid After : Wed Dec 06 15:08:21 2028
# Fingerprint (SHA-256):
6C:61:DA:C3:A2:DE:F0:31:50:6B:E0:36:D2:A6:FE:40:19:94:FB:D1:3D:F9:C8:D4:66:59:92:74:C4:46:EC:98
#
 Fingerprint (SHA1): 06:08:3F:59:3F:15:A1:04:A0:69:A4:6B:A9:03:D0:06:B7:97:09:91
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "NetLock Arany (Class Gold) Ftanúsítvány"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
```

CKA_SUBJECT MULTILINE_OCTAL
\060\201\247\061\013\060\011\006\003\125\004\006\023\002\110\125
\061\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160
\145\163\164\061\025\060\023\006\003\125\004\012\014\014\116\145
\164\114\157\143\153\040\113\146\164\056\061\067\060\065\006\003
\125\004\013\014\056\124\141\156\303\272\163\303\255\164\166\303
\241\156\171\153\151\141\144\303\263\153\040\050\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\123\145\162\166\151\143
\145\163\051\061\065\060\063\006\003\125\004\003\014\054\116\145
\164\114\157\143\153\040\101\162\141\156\171\040\050\103\154\141
\163\163\040\107\157\154\144\051\040\106\305\221\164\141\156\303
\272\163\303\255\164\166\303\241\156\171
END
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\247\061\013\060\011\006\003\125\004\006\023\002\110\125
\061\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160
\145\163\164\061\025\060\023\006\003\125\004\012\014\014\116\145
\164\114\157\143\153\040\113\146\164\056\061\067\060\065\006\003
\125\004\013\014\056\124\141\156\303\272\163\303\255\164\166\303
\241\156\171\153\151\141\144\303\263\153\040\050\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\123\145\162\166\151\143
\145\163\051\061\065\060\063\006\003\125\004\003\014\054\116\145
\164\114\157\143\153\040\101\162\141\156\171\040\050\103\154\141
\163\163\040\107\157\154\144\051\040\106\305\221\164\141\156\303
\272\163\303\255\164\166\303\241\156\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\006\111\101\054\344\000\020
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\025\060\202\002\375\240\003\002\001\002\002\006\111
\101\054\344\000\020\060\015\006\011\052\206\110\206\367\015\001
\001\013\005\000\060\201\247\061\013\060\011\006\003\125\004\006
\023\002\110\125\061\021\060\017\006\003\125\004\007\014\010\102
\165\144\141\160\145\163\164\061\025\060\023\006\003\125\004\012
\014\014\116\145\164\114\157\143\153\040\113\146\164\056\061\067
\060\065\006\003\125\004\013\014\056\124\141\156\303\272\163\303
\255\164\166\303\241\156\171\153\151\141\144\303\263\153\040\050
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\123\145
\162\166\151\143\145\163\051\061\065\060\063\006\003\125\004\003
\014\054\116\145\164\114\157\143\153\040\101\162\141\156\171\040
\050\103\154\141\163\163\040\107\157\154\144\051\040\106\305\221
\164\141\156\303\272\163\303\255\164\166\303\241\156\171\060\036
\027\015\060\070\061\062\061\061\061\065\060\070\062\061\132\027
\015\062\070\061\062\060\066\061\065\060\070\062\061\132\060\201
\247\061\013\060\011\006\003\125\004\006\023\002\110\125\061\021

\060\017\006\003\125\004\007\014\010\102\165\144\141\160\145\163
\164\061\025\060\023\006\003\125\004\012\014\014\116\145\164\114
\157\143\153\040\113\146\164\056\061\067\060\065\006\003\125\004
\013\014\056\124\141\156\303\272\163\303\255\164\166\303\241\156
\171\153\151\141\144\303\263\153\040\050\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\123\145\162\166\151\143\145\163
\051\061\065\060\063\006\003\125\004\003\014\054\116\145\164\114
\157\143\153\040\101\162\141\156\171\040\050\103\154\141\163\163
\040\107\157\154\144\051\040\106\305\221\164\141\156\303\272\163
\303\255\164\166\303\241\156\171\060\202\001\042\060\015\006\011
\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017\000
\060\202\001\012\002\202\001\001\000\304\044\136\163\276\113\155
\024\303\241\364\343\227\220\156\322\060\105\036\074\356\147\331
\144\340\032\212\177\312\060\312\203\343\040\301\343\364\072\323
\224\137\032\174\133\155\277\060\117\204\047\366\237\037\111\274
\306\231\012\220\362\017\365\177\103\204\067\143\121\213\172\245
\160\374\172\130\315\216\233\355\303\106\154\204\160\135\332\363
\001\220\043\374\116\060\251\176\341\047\143\347\355\144\074\240
\270\311\063\143\376\026\220\377\260\270\375\327\250\300\300\224
\103\013\266\325\131\246\236\126\320\044\037\160\171\257\333\071
\124\015\145\165\331\025\101\224\001\257\136\354\366\215\361\377
\255\144\376\040\232\327\134\353\376\246\037\010\144\243\213\166
\125\255\036\073\050\140\056\207\045\350\252\257\037\306\144\106
\040\267\160\177\074\336\110\333\226\123\267\071\167\344\032\342
\307\026\204\166\227\133\057\273\031\025\205\370\151\205\365\231
\247\251\362\064\247\251\266\246\003\374\157\206\075\124\174\166
\004\233\153\371\100\135\000\064\307\056\231\165\235\345\210\003
\252\115\370\003\322\102\166\300\033\002\003\000\250\213\243\105
\060\103\060\022\006\003\125\035\023\001\001\377\004\010\060\006
\001\001\377\002\001\004\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\006\060\035\006\003\125\035\016\004\026\004
\024\314\372\147\223\360\266\270\320\245\300\036\363\123\375\214
\123\337\203\327\226\060\015\006\011\052\206\110\206\367\015\001
\001\013\005\000\003\202\001\001\000\253\177\356\034\026\251\234
\074\121\000\240\300\021\010\005\247\231\346\157\001\210\124\141
\156\361\271\030\255\112\255\376\201\100\043\224\057\373\165\174
\057\050\113\142\044\201\202\013\365\141\361\034\156\270\141\070
\353\201\372\142\241\073\132\142\323\224\145\304\341\346\155\202
\370\057\045\160\262\041\046\301\162\121\037\214\054\303\204\220
\303\132\217\272\317\364\247\145\245\353\230\321\373\005\262\106
\165\025\043\152\157\205\143\060\200\360\325\236\037\051\034\302
\154\260\120\131\135\220\133\073\250\015\060\317\277\175\177\316
\361\235\203\275\311\106\156\040\246\371\141\121\272\041\057\173
\276\245\025\143\241\324\225\207\361\236\271\363\211\363\075\205
\270\270\333\276\265\271\051\371\332\067\005\000\111\224\003\204
\104\347\277\103\061\317\165\213\045\321\364\246\144\365\222\366
\253\005\353\075\351\245\013\066\142\332\314\006\137\066\213\266
\136\061\270\052\373\136\366\161\337\104\046\236\304\346\015\221

\264\056\165\225\200\121\152\113\060\246\260\142\241\223\361\233
\330\316\304\143\165\077\131\107\261
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "NetLock Arany (Class Gold) Ftanúsítvány"
Issuer: CN=NetLock Arany (Class Gold) F..tan..s..tv..ny,OU=Tan..s..tv..nykiad..k (Certification Services),O=NetLock Kft.,L=Budapest,C=HU
Serial Number:49:41:2c:e4:00:10
Subject: CN=NetLock Arany (Class Gold) F..tan..s..tv..ny,OU=Tan..s..tv..nykiad..k (Certification Services),O=NetLock Kft.,L=Budapest,C=HU
Not Valid Before: Thu Dec 11 15:08:21 2008
Not Valid After : Wed Dec 06 15:08:21 2028
Fingerprint (SHA-256): 6C:61:DA:C3:A2:DE:F0:31:50:6B:E0:36:D2:A6:FE:40:19:94:FB:D1:3D:F9:C8:D4:66:59:92:74:C4:46:EC:98
Fingerprint (SHA1): 06:08:3F:59:3F:15:A1:04:A0:69:A4:6B:A9:03:D0:06:B7:97:09:91
CKA_CLASS
 CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "NetLock Arany (Class Gold) Ftanúsítvány"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\006\010\077\131\077\025\241\004\240\151\244\153\251\003\320\006
\267\227\011\221
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\305\241\267\377\163\335\326\327\064\062\030\337\374\074\255\210
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\247\061\013\060\011\006\003\125\004\006\023\002\110\125
\061\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160
\145\163\164\061\025\060\023\006\003\125\004\012\014\014\116\145
\164\114\157\143\153\040\113\146\164\056\061\067\060\065\006\003
\125\004\013\014\056\124\141\156\303\272\163\303\255\164\166\303
\241\156\171\153\151\141\144\303\263\153\040\050\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\123\145\162\166\151\143
\145\163\051\061\065\060\063\006\003\125\004\003\014\054\116\145
\164\114\157\143\153\040\101\162\141\156\171\040\050\103\154\141
\163\163\040\107\157\154\144\051\040\106\305\221\164\141\156\303
\272\163\303\255\164\166\303\241\156\171
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\006\111\101\054\344\000\020

```
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "SecureSign RootCA11"
#
# Issuer: CN=SecureSign RootCA11,O="Japan Certification Services, Inc.",C=JP
# Serial Number: 1 (0x1)
# Subject: CN=SecureSign RootCA11,O="Japan Certification Services, Inc.",C=JP
# Not Valid Before: Wed Apr 08 04:56:47 2009
# Not Valid After : Sun Apr 08 04:56:47 2029
# Fingerprint (SHA-256):
BF:0F:EE:FB:9E:3A:58:1A:D5:F9:E9:DB:75:89:98:57:43:D2:61:08:5C:4D:31:4F:6F:5D:72:59:AA:42:16:12
# Fingerprint (SHA1): 3B:C4:9F:48:F8:F3:73:A0:9C:1E:BD:F8:5B:B1:C3:65:C7:D8:11:B3
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL
 CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SecureSign RootCA11"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\130\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\053\060\051\006\003\125\004\012\023\042\112\141\160\141\156\040
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\123\145
\162\166\151\143\145\163\054\040\111\156\143\056\061\034\060\032
\006\003\125\004\003\023\023\123\145\143\165\162\145\123\151\147
\156\040\122\157\157\164\103\101\061\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\130\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\053\060\051\006\003\125\004\012\023\042\112\141\160\141\156\040
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\123\145
\162\166\151\143\145\163\054\040\111\156\143\056\061\034\060\032
\006\003\125\004\003\023\023\123\145\143\165\162\145\123\151\147
\156\040\122\157\157\164\103\101\061\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE
 MULTILINE_OCTAL
\060\202\003\155\060\202\002\125\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
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\130\061\013\060\011\006\003\125\004\006\023\002\112\120\061\053
\060\051\006\003\125\004\012\023\042\112\141\160\141\156\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\123\145\162
\166\151\143\145\163\054\040\111\156\143\056\061\034\060\032\006
\003\125\004\003\023\023\123\145\143\165\162\145\123\151\147\156
\040\122\157\157\164\103\101\061\061\060\036\027\015\060\071\060
\064\060\070\060\064\065\066\064\067\132\027\015\062\071\060\064
\060\070\060\064\065\066\064\067\132\060\130\061\013\060\011\006
\003\125\004\006\023\002\112\120\061\053\060\051\006\003\125\004
\012\023\042\112\141\160\141\156\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\123\145\162\166\151\143\145\163\054
\040\111\156\143\056\061\034\060\032\006\003\125\004\003\023\023
\123\145\143\165\162\145\123\151\147\156\040\122\157\157\164\103
\101\061\061\060\202\001\042\060\015\006\011\052\206\110\206\367
\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002
\202\001\001\000\375\167\252\245\034\220\005\073\313\114\233\063
\213\132\024\105\244\347\220\026\321\337\127\322\041\020\244\027
\375\337\254\326\037\247\344\333\174\367\354\337\270\003\332\224
\130\375\135\162\174\214\077\137\001\147\164\025\226\343\002\074
\207\333\256\313\001\216\302\363\146\306\205\105\364\002\306\072
\265\142\262\257\372\234\277\244\346\324\200\060\230\363\015\266
\223\217\251\324\330\066\362\260\374\212\312\054\241\025\063\225
\061\332\300\033\362\356\142\231\206\143\077\277\335\223\052\203
\250\166\271\023\037\267\316\116\102\205\217\042\347\056\032\362
\225\011\262\005\265\104\116\167\241\040\275\251\362\116\012\175
\120\255\365\005\015\105\117\106\161\375\050\076\123\373\004\330
\055\327\145\035\112\033\372\317\073\260\061\232\065\156\310\213
\006\323\000\221\362\224\010\145\114\261\064\006\000\172\211\342
\360\307\003\131\317\325\326\350\247\062\263\346\230\100\206\305
\315\047\022\213\314\173\316\267\021\074\142\140\007\043\076\053
\100\156\224\200\011\155\266\263\157\167\157\065\010\120\373\002
\207\305\076\211\002\003\001\000\001\243\102\060\100\060\035\006
\003\125\035\016\004\026\004\024\133\370\115\117\262\245\206\324
\072\322\361\143\232\240\276\011\366\127\267\336\060\016\006\003
\125\035\017\001\001\377\004\004\003\002\001\006\060\017\006\003
\125\035\023\001\001\377\004\005\060\003\001\001\377\060\015\006
\011\052\206\110\206\367\015\001\001\005\005\000\003\202\001\001
\000\240\241\070\026\146\056\247\126\037\041\234\006\372\035\355
\271\042\305\070\046\330\116\117\354\243\177\171\336\106\041\241
\207\167\217\007\010\232\262\244\305\257\017\062\230\013\174\146
\051\266\233\175\045\122\111\103\253\114\056\053\156\172\160\257
\026\016\343\002\154\373\102\346\030\235\105\330\125\310\350\073
\335\347\341\364\056\013\034\064\134\154\130\112\373\214\210\120
\137\225\034\277\355\253\042\265\145\263\205\272\236\017\270\255
\345\172\033\212\120\072\035\275\015\274\173\124\120\013\271\102
\257\125\240\030\201\255\145\231\357\276\344\234\277\304\205\253
\101\262\124\157\334\045\315\355\170\342\216\014\215\011\111\335
\143\173\132\151\226\002\041\250\275\122\131\351\175\065\313\310

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\122\312\177\201\376\331\153\323\367\021\355\045\337\370\347\371
\244\372\162\227\204\123\015\245\320\062\030\121\166\131\024\154
\017\353\354\137\200\214\165\103\203\303\205\230\377\114\236\055
\015\344\167\203\223\116\265\226\007\213\050\023\233\214\031\215
\101\047\111\100\356\336\346\043\104\071\334\241\042\326\272\003
\362
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "SecureSign RootCA11"
# Issuer: CN=SecureSign RootCA11,O="Japan Certification Services, Inc.",C=JP
# Serial Number: 1 (0x1)
# Subject: CN=SecureSign RootCA11,O="Japan Certification Services, Inc.",C=JP
# Not Valid
 Before: Wed Apr 08 04:56:47 2009
# Not Valid After : Sun Apr 08 04:56:47 2029
# Fingerprint (SHA-256):
BF:0F:EE:FB:9E:3A:58:1A:D5:F9:E9:DB:75:89:98:57:43:D2:61:08:5C:4D:31:4F:6F:5D:72:59:AA:42:16:12
# Fingerprint (SHA1): 3B:C4:9F:48:F8:F3:73:A0:9C:1E:BD:F8:5B:B1:C3:65:C7:D8:11:B3
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SecureSign RootCA11"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\073\304\237\110\370\363\163\240\234\036\275\370\133\261\303\145
\307\330\021\263
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\267\122\164\342\222\264\200\223\362\165\344\314\327\362\352\046
END
CKA_ISSUER MULTILINE_OCTAL
\060\130\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\053\060\051\006\003\125\004\012\023\042\112\141\160\141\156\040
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\123\145
\162\166\151\143\145\163\054\040\111\156\143\056\061\034\060\032
\006\003\125\004\003\023\023\123\145\143\165\162\145\123\151\147
\156\040\122\157\157\164\103\101\061\061
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
```

```
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Microsec e-Szigno Root CA 2009"
#
# Issuer: E=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU
# Serial Number:00:c2:7e:43:04:4e:47:3f:19
# Subject: E=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU
# Not Valid Before: Tue Jun 16 11:30:18 2009
# Not Valid After : Sun Dec 30 11:30:18 2029
# Fingerprint (SHA-256):
3C:5F:81:FE:A5:FA:B8:2C:64:BF:A2:EA:EC:AF:CD:E8:E0:77:FC:86:20:A7:CA:E5:37:16:3D:F3:6E:DB:F3:78
# Fingerprint (SHA1): 89:DF:74:FE:5C:F4:0F:4A:80:F9:E3:37:7D:54:DA:91:E1:01:31:8E
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE
 CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsec e-Szigno Root CA 2009"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\110\125
\061\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160
\145\163\164\061\026\060\024\006\003\125\004\012\014\015\115\151
\143\162\157\163\145\143\040\114\164\144\056\061\047\060\045\006
\003\125\004\003\014\036\115\151\143\162\157\163\145\143\040\145
\055\123\172\151\147\156\157\040\122\157\157\164\040\103\101\040
\062\060\060\071\061\037\060\035\006\011\052\206\110\206\367\015
\001\011\001\026\020\151\156\146\157\100\145\055\163\172\151\147
\156\157\056\150\165
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\110\125
\061\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160
\145\163\164\061\026\060\024\006\003\125\004\012\014\015\115\151
\143\162\157\163\145\143\040\114\164\144\056\061\047\060\045\006
\003\125\004\003\014\036\115\151\143\162\157\163\145\143\040\145
\055\123\172\151\147\156\157\040\122\157\157\164\040\103\101\040
\062\060\060\071\061\037\060\035\006\011\052\206\110\206\367\015
\001\011\001\026\020\151\156\146\157\100\145\055\163\172\151\147
\156\157\056\150\165
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\011\000\302\176\103\004\116\107\077\031
END
```

CKA_VALUE MULTILINE_OCTAL

\060\202\004\012\060\202\002\362\240\003\002\001\002\002\011\000
\302\176\103\004\116\107\077\031\060\015\006\011\052\206\110\206
\367\015\001\001\013\005\000\060\201\202\061\013\060\011\006\003
\125\004\006\023\002\110\125\061\021\060\017\006\003\125\004\007
\014\010\102\165\144\141\160\145\163\164\061\026\060\024\006\003
\125\004\012\014\015\115\151\143\162\157\163\145\143\040\114\164
\144\056\061\047\060\045\006\003\125\004\003\014\036\115\151\143
\162\157\163\145\143\040\145\055\123\172\151\147\156\157\040\122
\157\157\164\040\103\101\040\062\060\060\071\061\037\060\035\006
\011\052\206\110\206\367\015\001\011\001\026\020\151\156\146\157
\100\145\055\163\172\151\147\156\157\056\150\165\060\036\027\015
\060\071\060\066\061\066\061\061\063\060\061\070\132\027\015\062
\071\061\062\063\060\061\061\063\060\061\070\132\060\201\202\061
\013\060\011\006\003\125\004\006\023\002\110\125\061\021\060\017
\006\003\125\004\007\014\010\102\165\144\141\160\145\163\164\061
\026\060\024\006\003\125\004\012\014\015\115\151\143\162\157\163
\145\143\040\114\164\144\056\061\047\060\045\006\003\125\004\003
\014\036\115\151\143\162\157\163\145\143\040\145\055\123\172\151
\147\156\157\040\122\157\157\164\040\103\101\040\062\060\060\071
\061\037\060\035\006\011\052\206\110\206\367\015\001\011\001\026
\020\151\156\146\157\100\145\055\163\172\151\147\156\157\056\150
\165\060\202\001\042\060\015\006\011\052\206\110\206\367\015\001
\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202\001
\001\000\351\370\217\363\143\255\332\206\330\247\340\102\373\317
\221\336\246\046\370\231\245\143\160\255\233\256\312\063\100\175
\155\226\156\241\016\104\356\341\023\235\224\102\122\232\275\165
\205\164\054\250\016\035\223\266\030\267\214\054\250\317\373\134
\161\271\332\354\376\350\176\217\344\057\035\262\250\165\207\330
\267\241\345\073\317\231\112\106\320\203\031\175\300\241\022\034
\225\155\112\364\330\307\245\115\063\056\205\071\100\165\176\024
\174\200\022\230\120\307\101\147\270\240\200\141\124\246\154\116
\037\340\235\016\007\351\311\272\063\347\376\300\125\050\054\002
\200\247\031\365\236\334\125\123\003\227\173\007\110\377\231\373
\067\212\044\304\131\314\120\020\143\216\252\251\032\260\204\032
\206\371\137\273\261\120\156\244\321\012\314\325\161\176\037\247
\033\174\365\123\156\042\137\313\053\346\324\174\135\256\326\302
\306\114\345\005\001\331\355\127\374\301\043\171\374\372\310\044
\203\225\363\265\152\121\001\320\167\326\351\022\241\371\032\203
\373\202\033\271\260\227\364\166\006\063\103\111\240\377\013\265
\372\265\002\003\001\000\001\243\201\200\060\176\060\017\006\003
\125\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006
\003\125\035\017\001\001\377\004\004\003\002\001\006\060\035\006
\003\125\035\016\004\026\004\024\313\017\306\337\102\103\314\075
\313\265\110\043\241\032\172\246\052\273\064\150\060\037\006\003
\125\035\043\004\030\060\026\200\024\313\017\306\337\102\103\314
\075\313\265\110\043\241\032\172\246\052\273\064\150\060\033\006
\003\125\035\021\004\024\060\022\201\020\151\156\146\157\100\145

\055\163\172\151\147\156\157\056\150\165\060\015\006\011\052\206
\110\206\367\015\001\001\013\005\000\003\202\001\001\000\311\321
\016\136\056\325\314\263\174\076\313\374\075\377\015\050\225\223
\004\310\277\332\315\171\270\103\220\360\244\276\357\362\357\041
\230\274\324\324\135\006\366\356\102\354\060\154\240\252\251\312
\361\257\212\372\077\013\163\152\076\352\056\100\176\037\256\124
\141\171\353\056\010\067\327\043\363\214\237\276\035\261\341\244
\165\333\240\342\124\024\261\272\034\051\244\030\366\022\272\242
\024\024\343\061\065\310\100\377\267\340\005\166\127\301\034\131
\362\370\277\344\355\045\142\134\204\360\176\176\037\263\276\371
\267\041\021\314\003\001\126\160\247\020\222\036\033\064\201\036
\255\234\032\303\004\074\355\002\141\326\036\006\363\137\072\207
\362\053\361\105\207\345\075\254\321\307\127\204\275\153\256\334
\330\371\266\033\142\160\013\075\066\311\102\362\062\327\172\141
\346\322\333\075\317\310\251\311\233\334\333\130\104\327\157\070
\257\177\170\323\243\255\032\165\272\034\301\066\174\217\036\155
\034\303\165\106\256\065\005\246\366\134\075\041\356\126\360\311
\202\042\055\172\124\253\160\303\175\042\145\202\160\226
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Microsec e-Szigno Root CA 2009"
Issuer: E=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU
Serial Number:00:c2:7e:43:04:4e:47:3f:19
Subject: E=info@e-szigno.hu,CN=Microsec
e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU
Not Valid Before: Tue Jun 16 11:30:18 2009
Not Valid After : Sun Dec 30 11:30:18 2029
Fingerprint (SHA-256):
3C:5F:81:FE:A5:FA:B8:2C:64:BF:A2:EA:EC:AF:CD:E8:E0:77:FC:86:20:A7:CA:E5:37:16:3D:F3:6E:DB:F3:78
Fingerprint (SHA1): 89:DF:74:FE:5C:F4:0F:4A:80:F9:E3:37:7D:54:DA:91:E1:01:31:8E
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsec e-Szigno Root CA 2009"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\211\337\164\376\134\364\017\112\200\371\343\067\175\124\332\221
\341\001\061\216
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\370\111\364\003\274\104\055\203\276\110\151\175\051\144\374\261
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\110\125

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\061\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160
\145\163\164\061\026\060\024\006\003\125\004\012\014\015\115\151
\143\162\157\163\145\143\040\114\164\144\056\061\047\060\045\006
\003\125\004\003\014\036\115\151\143\162\157\163\145\143\040\145
\055\123\172\151\147\156\157\040\122\157\157\164\040\103\101\040
\062\060\060\071\061\037\060\035\006\011\052\206\110\206\367\015
\001\011\001\026\020\151\156\146\157\100\145\055\163\172\151\147
\156\157\056\150\165
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\011\000\302\176\103\004\116\107\077\031
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "GlobalSign Root CA - R3"
#
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R3
# Serial Number:04:00:00:00:00:01:21:58:53:08:a2
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R3
# Not Valid Before: Wed Mar 18 10:00:00 2009
# Not Valid After : Sun Mar 18 10:00:00 2029
# Fingerprint (SHA-256):
CB:B5:22:D7:B7:F1:27:AD:6A:01:13:86:5B:DF:1C:D4:10:2E:7D:07:59:AF:63:5A:7C:F4:72:0D:C9:63:C5:3B
#
 Fingerprint (SHA1): D6:9B:56:11:48:F0:1C:77:C5:45:78:C1:09:26:DF:5B:85:69:76:AD
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA - R3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\114\061\040\060\036\006\003\125\004\013\023\027\107\154\157
\142\141\154\123\151\147\156\040\122\157\157\164\040\103\101\040
\055\040\122\063\061\023\060\021\006\003\125\004\012\023\012\107
\154\157\142\141\154\123\151\147\156\061\023\060\021\006\003\125
\004\003\023\012\107\154\157\142\141\154\123\151\147\156
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\114\061\040\060\036\006\003\125\004\013\023\027\107\154\157
\142\141\154\123\151\147\156\040\122\157\157\164\040\103\101\040
\055\040\122\063\061\023\060\021\006\003\125\004\012\023\012\107
```

\154\157\142\141\154\123\151\147\156\061\023\060\021\006\003\125
\004\003\023\012\107\154\157\142\141\154\123\151\147\156
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\013\004\000\000\000\000\001\041\130\123\010\242
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\137\060\202\002\107\240\003\002\001\002\002\013\004
\000\000\000\000\001\041\130\123\010\242\060\015\006\011\052\206
\110\206\367\015\001\001\013\005\000\060\114\061\040\060\036\006
\003\125\004\013\023\027\107\154\157\142\141\154\123\151\147\156
\040\122\157\157\164\040\103\101\040\055\040\122\063\061\023\060
\021\006\003\125\004\012\023\012\107\154\157\142\141\154\123\151
\147\156\061\023\060\021\006\003\125\004\003\023\012\107\154\157
\142\141\154\123\151\147\156\060\036\027\015\060\071\060\063\061
\070\061\060\060\060\060\060\132\027\015\062\071\060\063\061\070
\061\060\060\060\060\060\132\060\114\061\040\060\036\006\003\125
\004\013\023\027\107\154\157\142\141\154\123\151\147\156\040\122
\157\157\164\040\103\101\040\055\040\122\063\061\023\060\021\006
\003\125\004\012\023\012\107\154\157\142\141\154\123\151\147\156
\061\023\060\021\006\003\125\004\003\023\012\107\154\157\142\141
\154\123\151\147\156\060\202\001\042\060\015\006\011\052\206\110
\206\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001
\012\002\202\001\001\000\314\045\166\220\171\006\170\042\026\365
\300\203\266\204\312\050\236\375\005\166\021\305\255\210\162\374
\106\002\103\307\262\212\235\004\137\044\313\056\113\341\140\202
\106\341\122\253\014\201\107\160\154\335\144\321\353\365\054\243
\017\202\075\014\053\256\227\327\266\024\206\020\171\273\073\023
\200\167\214\010\341\111\322\152\142\057\037\136\372\226\150\337
\211\047\225\070\237\006\327\076\311\313\046\131\015\163\336\260
\310\351\046\016\203\025\306\357\133\213\322\004\140\312\111\246
\050\366\151\073\366\313\310\050\221\345\235\212\141\127\067\254
\164\024\334\164\340\072\356\162\057\056\234\373\320\273\277\365
\075\000\341\006\063\350\202\053\256\123\246\072\026\163\214\335
\101\016\040\072\300\264\247\241\351\262\117\220\056\062\140\351
\127\313\271\004\222\150\150\345\070\046\140\165\262\237\167\377
\221\024\357\256\040\111\374\255\100\025\110\321\002\061\141\031
\136\270\227\357\255\167\267\144\232\172\277\137\301\023\357\233
\142\373\015\154\340\124\151\026\251\003\332\156\351\203\223\161
\166\306\151\205\202\027\002\003\001\000\001\243\102\060\100\060
\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377
\060\035\006\003\125\035\016\004\026\004\024\217\360\113\177\250
\056\105\044\256\115\120\372\143\232\213\336\342\335\033\274\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\003\202
\001\001\000\113\100\333\300\120\252\376\310\014\357\367\226\124
\105\111\273\226\000\011\101\254\263\023\206\206\050\007\063\312

\153\346\164\271\272\000\055\256\244\012\323\365\361\361\017\212
\277\163\147\112\203\307\104\173\170\340\257\156\154\157\003\051
\216\063\071\105\303\216\344\271\127\154\252\374\022\226\354\123
\306\055\344\044\154\271\224\143\373\334\123\150\147\126\076\203
\270\317\065\041\303\311\150\376\316\332\302\123\252\314\220\212
\351\360\135\106\214\225\335\172\130\050\032\057\035\336\315\000
\067\101\217\355\104\155\327\123\050\227\176\363\147\004\036\025
\327\212\226\264\323\336\114\047\244\114\033\163\163\166\364\027
\231\302\037\172\016\343\055\010\255\012\034\054\377\074\253\125
\016\017\221\176\066\353\303\127\111\276\341\056\055\174\140\213
\303\101\121\023\043\235\316\367\062\153\224\001\250\231\347\054
\063\037\072\073\045\322\206\100\316\073\054\206\170\311\141\057
\024\272\356\333\125\157\337\204\356\005\011\115\275\050\330\162
\316\323\142\120\145\036\353\222\227\203\061\331\263\265\312\107
\130\077\137
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "GlobalSign Root CA - R3"
Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R3
Serial Number:04:00:00:00:00:01:21:58:53:08:a2
#
 Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R3
Not Valid Before: Wed Mar 18 10:00:00 2009
Not Valid After : Sun Mar 18 10:00:00 2029
Fingerprint (SHA-256):
CB:B5:22:D7:B7:F1:27:AD:6A:01:13:86:5B:DF:1C:D4:10:2E:7D:07:59:AF:63:5A:7C:F4:72:0D:C9:63:C5:3B
Fingerprint (SHA1): D6:9B:56:11:48:F0:1C:77:C5:45:78:C1:09:26:DF:5B:85:69:76:AD
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA - R3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\326\233\126\021\110\360\034\167\305\105\170\301\011\046\337\133
\205\151\166\255
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\305\337\270\111\312\005\023\125\356\055\272\032\303\076\260\050
END
CKA_ISSUER MULTILINE_OCTAL
\060\114\061\040\060\036\006\003\125\004\013\023\027\107\154\157
\142\141\154\123\151\147\156\040\122\157\157\164\040\103\101\040
\055\040\122\063\061\023\060\021\006\003\125\004\012\023\012\107
\154\157\142\141\154\123\151\147\156\061\023\060\021\006\003\125

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\004\003\023\012\107\154\157\142\141\154\123\151\147\156
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\013\004\000\000\000\000\001\041\130\123\010\242
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Izenpe.com"
#
# Issuer: CN=Izenpe.com,O=IZENPE S.A.,C=ES
# Serial Number:00:b0:b7:5a:16:48:5f:bf:e1:cb:f5:8b:d7:19:e6:7d
# Subject: CN=Izenpe.com,O=IZENPE S.A.,C=ES
# Not Valid Before: Thu Dec 13 13:08:28 2007
# Not Valid After : Sun Dec 13 08:27:25 2037
# Fingerprint (SHA-256):
25:30:CC:8E:98:32:15:02:BA:D9:6F:9B:1F:BA:1B:09:9E:2D:29:9E:0F:45:48:BB:91:4F:36:3B:C0:D4:53:1F
# Fingerprint (SHA1): 2F:78:3D:25:52:18:A7:4A:65:39:71:B5:2C:A2:9C:45:15:6F:E9:19
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL
 CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Izenpe.com"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\070\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\024\060\022\006\003\125\004\012\014\013\111\132\105\116\120\105
\040\123\056\101\056\061\023\060\021\006\003\125\004\003\014\012
\111\172\145\156\160\145\056\143\157\155
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\070\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\024\060\022\006\003\125\004\012\014\013\111\132\105\116\120\105
\040\123\056\101\056\061\023\060\021\006\003\125\004\003\014\012
\111\172\145\156\160\145\056\143\157\155
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\000\260\267\132\026\110\137\277\341\313\365\213\327\031
\346\175
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\361\060\202\003\331\240\003\002\001\002\002\020\000
```

\260\267\132\026\110\137\277\341\313\365\213\327\031\346\175\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\070
\061\013\060\011\006\003\125\004\006\023\002\105\123\061\024\060
\022\006\003\125\004\012\014\013\111\132\105\116\120\105\040\123
\056\101\056\061\023\060\021\006\003\125\004\003\014\012\111\172
\145\156\160\145\056\143\157\155\060\036\027\015\060\067\061\062
\061\063\061\063\060\070\062\070\132\027\015\063\067\061\062\061
\063\060\070\062\067\062\065\132\060\070\061\013\060\011\006\003
\125\004\006\023\002\105\123\061\024\060\022\006\003\125\004\012
\014\013\111\132\105\116\120\105\040\123\056\101\056\061\023\060
\021\006\003\125\004\003\014\012\111\172\145\156\160\145\056\143
\157\155\060\202\002\042\060\015\006\011\052\206\110\206\367\015
\001\001\001\005\000\003\202\002\017\000\060\202\002\012\002\202
\002\001\000\311\323\172\312\017\036\254\247\206\350\026\145\152
\261\302\033\105\062\161\225\331\376\020\133\314\257\347\245\171
\001\217\211\303\312\362\125\161\367\167\276\167\224\363\162\244
\054\104\330\236\222\233\024\072\241\347\044\220\012\012\126\216
\305\330\046\224\341\331\110\341\055\076\332\012\162\335\243\231
\025\332\201\242\207\364\173\156\046\167\211\130\255\326\353\014
\262\101\172\163\156\155\333\172\170\101\351\010\210\022\176\207
\056\146\021\143\154\124\373\074\235\162\300\274\056\377\302\267
\335\015\166\343\072\327\367\264\150\276\242\365\343\201\156\301
\106\157\135\215\340\115\306\124\125\211\032\063\061\012\261\127
\271\243\212\230\303\354\073\064\305\225\101\151\176\165\302\074
\040\305\141\272\121\107\240\040\220\223\241\220\113\363\116\174
\205\105\124\232\321\005\046\101\260\265\115\035\063\276\304\003
\310\045\174\301\160\333\073\364\011\055\124\047\110\254\057\341
\304\254\076\310\313\222\114\123\071\067\043\354\323\001\371\340
\011\104\115\115\144\300\341\015\132\207\042\274\255\033\243\376
\046\265\025\363\247\374\204\031\351\354\241\210\264\104\151\204
\203\363\211\321\164\006\251\314\013\326\302\336\047\205\120\046
\312\027\270\311\172\207\126\054\032\001\036\154\276\023\255\020
\254\265\044\365\070\221\241\326\113\332\361\273\322\336\107\265
\361\274\201\366\131\153\317\031\123\351\215\025\313\112\313\251
\157\104\345\033\101\317\341\206\247\312\320\152\237\274\114\215
\006\063\132\242\205\345\220\065\240\142\134\026\116\360\343\242
\372\003\032\264\054\161\263\130\054\336\173\013\333\032\017\353
\336\041\037\006\167\006\003\260\311\357\231\374\300\271\117\013
\206\050\376\322\271\352\343\332\245\303\107\151\022\340\333\360
\366\031\213\355\173\160\327\002\326\355\207\030\050\054\004\044
\114\167\344\110\212\032\306\073\232\324\017\312\372\165\322\001
\100\132\215\171\277\213\317\113\317\252\026\301\225\344\255\114
\212\076\027\221\324\261\142\345\202\345\200\004\244\003\176\215
\277\332\177\242\017\227\117\014\323\015\373\327\321\345\162\176
\034\310\167\377\133\232\017\267\256\005\106\345\361\250\026\354
\107\244\027\002\003\001\000\001\243\201\366\060\201\363\060\201
\260\006\003\125\035\021\004\201\250\060\201\245\201\017\151\156
\146\157\100\151\172\145\156\160\145\056\143\157\155\244\201\221

\060\201\216\061\107\060\105\006\003\125\004\012\014\076\111\132
\105\116\120\105\040\123\056\101\056\040\055\040\103\111\106\040
\101\060\061\063\063\067\062\066\060\055\122\115\145\162\143\056
\126\151\164\157\162\151\141\055\107\141\163\164\145\151\172\040
\124\061\060\065\065\040\106\066\062\040\123\070\061\103\060\101
\006\003\125\004\011\014\072\101\166\144\141\040\144\145\154\040
\115\145\144\151\164\145\162\162\141\156\145\157\040\105\164\157
\162\142\151\144\145\141\040\061\064\040\055\040\060\061\060\061
\060\040\126\151\164\157\162\151\141\055\107\141\163\164\145\151
\172\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001
\001\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002
\001\006\060\035\006\003\125\035\016\004\026\004\024\035\034\145
\016\250\362\045\173\264\221\317\344\261\261\346\275\125\164\154
\005\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000
\003\202\002\001\000\170\246\014\026\112\237\114\210\072\300\313
\016\245\026\175\237\271\110\137\030\217\015\142\066\366\315\031
\153\254\253\325\366\221\175\256\161\363\077\263\016\170\205\233
\225\244\047\041\107\102\112\174\110\072\365\105\174\263\014\216
\121\170\254\225\023\336\306\375\175\270\032\220\114\253\222\003
\307\355\102\001\316\017\330\261\372\242\222\341\140\155\256\172
\153\011\252\306\051\356\150\111\147\060\200\044\172\061\026\071
\133\176\361\034\056\335\154\011\255\362\061\301\202\116\271\273
\371\276\277\052\205\077\300\100\243\072\131\374\131\113\074\050
\044\333\264\025\165\256\015\210\272\056\163\300\275\130\207\345
\102\362\353\136\356\036\060\042\231\313\067\321\304\041\154\201
\354\276\155\046\346\034\344\102\040\236\107\260\254\203\131\160
\054\065\326\257\066\064\264\315\073\370\062\250\357\343\170\211
\373\215\105\054\332\234\270\176\100\034\141\347\076\242\222\054
\113\362\315\372\230\266\051\377\363\362\173\251\037\056\240\223
\127\053\336\205\003\371\151\067\313\236\170\152\005\264\305\061
\170\211\354\172\247\205\341\271\173\074\336\276\036\171\204\316
\237\160\016\131\302\065\056\220\052\061\331\344\105\172\101\244
\056\023\233\064\016\146\173\111\253\144\227\320\106\303\171\235
\162\120\143\246\230\133\006\275\110\155\330\071\203\160\350\065
\360\005\321\252\274\343\333\310\002\352\174\375\202\332\302\133
\122\065\256\230\072\255\272\065\223\043\247\037\110\335\065\106
\230\262\020\150\344\245\061\302\012\130\056\031\201\020\311\120
\165\374\352\132\026\316\021\327\356\357\120\210\055\141\377\077
\102\163\005\224\103\325\216\074\116\001\072\031\245\037\106\116
\167\320\135\345\201\042\041\207\376\224\175\204\330\223\255\326
\150\103\110\262\333\353\163\044\347\221\177\124\244\266\200\076
\235\243\074\114\162\302\127\304\240\324\314\070\047\316\325\006
\236\242\110\331\351\237\316\202\160\066\223\232\073\337\226\041
\343\131\267\014\332\221\067\360\375\131\132\263\231\310\151\154
\103\046\001\065\143\140\125\211\003\072\165\330\272\112\331\124
\377\356\336\200\330\055\321\070\325\136\055\013\230\175\076\154
\333\374\046\210\307
END

```
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Izenpe.com"
# Issuer: CN=Izenpe.com,O=IZENPE S.A.,C=ES
# Serial Number:00:b0:b7:5a:16:48:5f:bf:e1:cb:f5:8b:d7:19:e6:7d
# Subject: CN=Izenpe.com,O=IZENPE S.A.,C=ES
# Not Valid Before: Thu Dec 13 13:08:28 2007
# Not Valid After : Sun Dec 13 08:27:25 2037
# Fingerprint (SHA-256):
25:30:CC:8E:98:32:15:02:BA:D9:6F:9B:1F:BA:1B:09:9E:2D:29:9E:0F:45:48:BB:91:4F:36:3B:C0:D4:53:1F
# Fingerprint (SHA1): 2F:78:3D:25:52:18:A7:4A:65:39:71:B5:2C:A2:9C:45:15:6F:E9:19
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Izenpe.com"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\057\170\075\045\122\030\247\112\145\071\161\265\054\242\234\105
\025\157\351\031
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\246\260\315\205\200\332\134\120\064\243\071\220\057\125\147\163
END
CKA_ISSUER
 MULTILINE_OCTAL
\060\070\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\024\060\022\006\003\125\004\012\014\013\111\132\105\116\120\105
\040\123\056\101\056\061\023\060\021\006\003\125\004\003\014\012
\111\172\145\156\160\145\056\143\157\155
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\000\260\267\132\026\110\137\277\341\313\365\213\327\031
\346\175
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Go Daddy Root Certificate Authority - G2"
#
# Issuer: CN=Go Daddy Root Certificate Authority - G2,O="GoDaddy.com, Inc.",L=Scottsdale,ST=Arizona,C=US
# Serial Number: 0 (0x0)
# Subject: CN=Go Daddy Root Certificate Authority - G2,O="GoDaddy.com,
```

```
Inc.",L=Scottsdale,ST=Arizona,C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After : Thu Dec 31 23:59:59 2037
# Fingerprint
 (SHA-256):
45:14:0B:32:47:EB:9C:C8:C5:B4:F0:D7:B5:30:91:F7:32:92:08:9E:6E:5A:63:E2:74:9D:D3:AC:A9:19:8E:DA
# Fingerprint (SHA1): 47:BE:AB:C9:22:EA:E8:0E:78:78:34:62:A7:9F:45:C2:54:FD:E6:8B
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Go Daddy Root Certificate Authority - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\203\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\032\060\030\006\003\125\004\012
\023\021\107\157\104\141\144\144\171\056\143\157\155\054\040\111
\156\143\056\061\061\060\057\006\003\125\004\003\023\050\107\157
\040\104\141\144\144\171\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164
\171\040\055\040\107\062
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\203\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\032\060\030\006\003\125\004\012
\023\021\107\157\104\141\144\144\171\056\143\157\155\054\040\111
\156\143\056\061\061\060\057\006\003\125\004\003\023\050\107\157
\040\104\141\144\144\171\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164
\171\040\055\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\305\060\202\002\255\240\003\002\001\002\002\001\000
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\201\203\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157\156
\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157\164
\164\163\144\141\154\145\061\032\060\030\006\003\125\004\012\023
\021\107\157\104\141\144\144\171\056\143\157\155\054\040\111\156
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\143\056\061\061\060\057\006\003\125\004\003\023\050\107\157\040
\104\141\144\144\171\040\122\157\157\164\040\103\145\162\164\151
\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164\171
\040\055\040\107\062\060\036\027\015\060\071\060\071\060\061\060
\060\060\060\060\060\132\027\015\063\067\061\062\063\061\062\063
\065\071\065\071\132\060\201\203\061\013\060\011\006\003\125\004
\006\023\002\125\123\061\020\060\016\006\003\125\004\010\023\007
\101\162\151\172\157\156\141\061\023\060\021\006\003\125\004\007
\023\012\123\143\157\164\164\163\144\141\154\145\061\032\060\030
\006\003\125\004\012\023\021\107\157\104\141\144\144\171\056\143
\157\155\054\040\111\156\143\056\061\061\060\057\006\003\125\004
\003\023\050\107\157\040\104\141\144\144\171\040\122\157\157\164
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\040\055\040\107\062\060\202\001\042\060
\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202
\001\017\000\060\202\001\012\002\202\001\001\000\277\161\142\010
\361\372\131\064\367\033\311\030\243\367\200\111\130\351\042\203
\023\246\305\040\103\001\073\204\361\346\205\111\237\047\352\366
\204\033\116\240\264\333\160\230\307\062\001\261\005\076\007\116
\356\364\372\117\057\131\060\042\347\253\031\126\153\342\200\007
\374\363\026\165\200\071\121\173\345\371\065\266\164\116\251\215
\202\023\344\266\077\251\003\203\372\242\276\212\025\152\177\336
\013\303\266\031\024\005\312\352\303\250\004\224\073\106\174\062
\015\363\000\146\042\310\215\151\155\066\214\021\030\267\323\262
\034\140\264\070\372\002\214\316\323\335\106\007\336\012\076\353
\135\174\310\174\373\260\053\123\244\222\142\151\121\045\005\141
\032\104\201\214\054\251\103\226\043\337\254\072\201\232\016\051
\305\034\251\351\135\036\266\236\236\060\012\071\316\361\210\200
\373\113\135\314\062\354\205\142\103\045\064\002\126\047\001\221
\264\073\160\052\077\156\261\350\234\210\001\175\237\324\371\333
\123\155\140\235\277\054\347\130\253\270\137\106\374\316\304\033
\003\074\011\353\111\061\134\151\106\263\340\107\002\003\001\000
\001\243\102\060\100\060\017\006\003\125\035\023\001\001\377\004
\005\060\003\001\001\377\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\006\060\035\006\003\125\035\016\004\026\004
\024\072\232\205\007\020\147\050\266\357\366\275\005\101\156\040
\301\224\332\017\336\060\015\006\011\052\206\110\206\367\015\001
\001\013\005\000\003\202\001\001\000\231\333\135\171\325\371\227
\131\147\003\141\361\176\073\006\061\165\055\241\040\216\117\145
\207\264\367\246\234\274\330\351\057\320\333\132\356\317\164\214
\163\264\070\102\332\005\173\370\002\165\270\375\245\261\327\256
\366\327\336\023\313\123\020\176\212\106\321\227\372\267\056\053
\021\253\220\260\047\200\371\350\237\132\351\067\237\253\344\337
\154\263\205\027\235\075\331\044\117\171\221\065\326\137\004\353
\200\203\253\232\002\055\265\020\364\330\220\307\004\163\100\355
\162\045\240\251\237\354\236\253\150\022\231\127\306\217\022\072
\011\244\275\104\375\006\025\067\301\233\344\062\243\355\070\350
\330\144\363\054\176\024\374\002\352\237\315\377\007\150\027\333

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\042\220\070\055\172\215\321\124\361\151\343\137\063\312\172\075
\173\012\343\312\177\137\071\345\342\165\272\305\166\030\063\316
\054\360\057\114\255\367\261\347\316\117\250\304\233\112\124\006
\305\177\175\325\010\017\342\034\376\176\027\270\254\136\366\324
\026\262\103\011\014\115\366\247\153\264\231\204\145\312\172\210
\342\342\104\276\134\367\352\034\365
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Go Daddy Root Certificate Authority - G2"
# Issuer: CN=Go Daddy Root Certificate Authority - G2,O="GoDaddy.com, Inc.",L=Scottsdale,ST=Arizona,C=US
# Serial Number: 0 (0x0)
# Subject: CN=Go Daddy Root Certificate Authority - G2,O="GoDaddy.com,
 Inc.",L=Scottsdale,ST=Arizona,C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After : Thu Dec 31 23:59:59 2037
# Fingerprint (SHA-256):
45:14:0B:32:47:EB:9C:C8:C5:B4:F0:D7:B5:30:91:F7:32:92:08:9E:6E:5A:63:E2:74:9D:D3:AC:A9:19:8E:DA
# Fingerprint (SHA1): 47:BE:AB:C9:22:EA:E8:0E:78:78:34:62:A7:9F:45:C2:54:FD:E6:8B
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Go Daddy Root Certificate Authority - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\107\276\253\311\042\352\350\016\170\170\064\142\247\237\105\302
\124\375\346\213
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\200\072\274\042\301\346\373\215\233\073\047\112\062\033\232\001
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\203\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\032\060\030\006\003\125\004\012
\023\021\107\157\104\141\144\144\171\056\143\157\155\054\040\111
\156\143\056\061\061\060\057\006\003\125\004\003\023\050\107\157
\040\104\141\144\144\171\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164
\171\040\055\040\107\062
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\001\000
```

```
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Starfield Root Certificate Authority - G2"
#
# Issuer: CN=Starfield Root Certificate Authority - G2,O="Starfield Technologies,
Inc.",L=Scottsdale,ST=Arizona,C=US
# Serial Number: 0 (0x0)
# Subject: CN=Starfield Root Certificate Authority - G2,O="Starfield Technologies,
Inc.",L=Scottsdale,ST=Arizona,C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After : Thu Dec
 31 23:59:59 2037
# Fingerprint (SHA-256):
2C:E1:CB:0B:F9:D2:F9:E1:02:99:3F:BE:21:51:52:C3:B2:DD:0C:AB:DE:1C:68:E5:31:9B:83:91:54:DB:B7:F5
# Fingerprint (SHA1): B5:1C:06:7C:EE:2B:0C:3D:F8:55:AB:2D:92:F4:FE:39:D4:E7:0F:0E
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Root Certificate Authority - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\217\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012
\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\062
\060\060\006\003\125\004\003\023\051\123\164\141\162\146\151\145
\154\144\040\122\157\157\164\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171\040\055\040
\107\062
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\217\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012
\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\062
\060\060\006\003\125\004\003\023\051\123\164\141\162\146\151\145
```

\154\144\040\122\157\157\164\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171\040\055\040
\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\335\060\202\002\305\240\003\002\001\002\002\001\000
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\201\217\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157\156
\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157\164
\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012\023
\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150\156
\157\154\157\147\151\145\163\054\040\111\156\143\056\061\062\060
\060\006\003\125\004\003\023\051\123\164\141\162\146\151\145\154
\144\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141
\164\145\040\101\165\164\150\157\162\151\164\171\040\055\040\107
\062\060\036\027\015\060\071\060\071\060\061\060\060\060\060\060
\060\132\027\015\063\067\061\062\063\061\062\063\065\071\065\071
\132\060\201\217\061\013\060\011\006\003\125\004\006\023\002\125
\123\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172
\157\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143
\157\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004
\012\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143
\150\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061
\062\060\060\006\003\125\004\003\023\051\123\164\141\162\146\151
\145\154\144\040\122\157\157\164\040\103\145\162\164\151\146\151
\143\141\164\145\040\101\165\164\150\157\162\151\164\171\040\055
\040\107\062\060\202\001\042\060\015\006\011\052\206\110\206\367
\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002
\202\001\001\000\275\355\301\003\374\366\217\374\002\261\157\133
\237\110\331\235\171\342\242\267\003\141\126\030\303\107\266\327
\312\075\065\056\211\103\367\241\151\233\336\212\032\375\023\040
\234\264\111\167\062\051\126\375\271\354\214\335\042\372\162\334
\047\141\227\356\366\132\204\354\156\031\271\211\054\334\204\133
\325\164\373\153\137\305\211\245\020\122\211\106\125\364\270\165
\034\346\177\344\124\256\113\370\125\162\127\002\031\370\027\161
\131\353\036\050\007\164\305\235\110\276\154\264\364\244\260\363
\144\067\171\222\300\354\106\136\177\341\155\123\114\142\257\315
\037\013\143\273\072\235\373\374\171\000\230\141\164\317\046\202
\100\143\363\262\162\152\031\015\231\312\324\016\165\314\067\373
\213\211\301\131\361\142\177\137\263\137\145\060\370\247\267\115
\166\132\036\166\136\064\300\350\226\126\231\212\263\360\177\244
\315\275\334\062\061\174\221\317\340\137\021\370\153\252\111\134
\321\231\224\321\242\343\143\133\011\166\265\126\142\341\113\164
\035\226\324\046\324\010\004\131\320\230\016\016\346\336\374\303

\354\037\220\361\002\003\001\000\001\243\102\060\100\060\017\006
\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060\016
\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060\035
\006\003\125\035\016\004\026\004\024\174\014\062\037\247\331\060
\177\304\175\150\243\142\250\241\316\253\007\133\047\060\015\006
\011\052\206\110\206\367\015\001\001\013\005\000\003\202\001\001
\000\021\131\372\045\117\003\157\224\231\073\232\037\202\205\071
\324\166\005\224\136\341\050\223\155\142\135\011\302\240\250\324
\260\165\070\361\064\152\235\344\237\212\206\046\121\346\054\321
\306\055\156\225\040\112\222\001\354\270\212\147\173\061\342\147
\056\214\225\003\046\056\103\235\112\061\366\016\265\014\273\267
\342\067\177\042\272\000\243\016\173\122\373\153\273\073\304\323
\171\121\116\315\220\364\147\007\031\310\074\106\172\015\001\175
\305\130\347\155\346\205\060\027\232\044\304\020\340\004\367\340
\362\177\324\252\012\377\102\035\067\355\224\345\144\131\022\040
\167\070\323\062\076\070\201\165\226\163\372\150\217\261\313\316
\037\305\354\372\234\176\317\176\261\361\007\055\266\374\277\312
\244\277\320\227\005\112\274\352\030\050\002\220\275\124\170\011
\041\161\323\321\175\035\331\026\260\251\141\075\320\012\000\042
\374\307\173\313\011\144\105\013\073\100\201\367\175\174\062\365
\230\312\130\216\175\052\356\220\131\163\144\371\066\164\136\045
\241\365\146\005\056\177\071\025\251\052\373\120\213\216\205\151
\364
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Starfield
Root Certificate Authority - G2"
Issuer: CN=Starfield Root Certificate Authority - G2,O="Starfield Technologies,
Inc.",L=Scottsdale,ST=Arizona,C=US
Serial Number: 0 (0x0)
Subject: CN=Starfield Root Certificate Authority - G2,O="Starfield Technologies,
Inc.",L=Scottsdale,ST=Arizona,C=US
Not Valid Before: Tue Sep 01 00:00:00 2009
Not Valid After : Thu Dec 31 23:59:59 2037
Fingerprint (SHA-256):
2C:E1:CB:0B:F9:D2:F9:E1:02:99:3F:BE:21:51:52:C3:B2:DD:0C:AB:DE:1C:68:E5:31:9B:83:91:54:DB:B7:F5
Fingerprint (SHA1): B5:1C:06:7C:EE:2B:0C:3D:F8:55:AB:2D:92:F4:FE:39:D4:E7:0F:0E
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Root Certificate Authority - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\265\034\006\174\356\053\014\075\370\125\253\055\222\364\376\071

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\324\347\017\016
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\326\071\201\306\122\176\226\151\374\374\312\146\355\005\362\226
END
CKA_ISSUER
 MULTILINE_OCTAL
\060\201\217\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012
\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\062
\060\060\006\003\125\004\003\023\051\123\164\141\162\146\151\145
\154\144\040\122\157\157\164\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171\040\055\040
\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Starfield Services Root Certificate Authority - G2"
#
# Issuer: CN=Starfield
 Services Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US
# Serial Number: 0 (0x0)
# Subject: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies,
Inc.",L=Scottsdale,ST=Arizona,C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After : Thu Dec 31 23:59:59 2037
# Fingerprint (SHA-256):
56:8D:69:05:A2:C8:87:08:A4:B3:02:51:90:ED:CF:ED:B1:97:4A:60:6A:13:C6:E5:29:0F:CB:2A:E6:3E:DA:B5
# Fingerprint (SHA1): 92:5A:8F:8D:2C:6D:04:E0:66:5F:59:6A:FF:22:D8:63:E8:25:6F:3F
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Services Root Certificate Authority - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\230\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
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\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012
\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\073
\060\071\006\003\125\004\003\023\062\123\164\141\162\146\151\145
\154\144\040\123\145\162\166\151\143\145\163\040\122\157\157\164
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\040\055\040\107\062
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\230\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012
\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\073
\060\071\006\003\125\004\003\023\062\123\164\141\162\146\151\145
\154\144\040\123\145\162\166\151\143\145\163\040\122\157\157\164
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\040\055\040\107\062
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\357\060\202\002\327\240\003\002\001\002\002\001\000
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\201\230\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157\156
\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157\164
\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012\023
\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150\156
\157\154\157\147\151\145\163\054\040\111\156\143\056\061\073\060
\071\006\003\125\004\003\023\062\123\164\141\162\146\151\145\154
\144\040\123\145\162\166\151\143\145\163\040\122\157\157\164\040
\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150
\157\162\151\164\171\040\055\040\107\062\060\036\027\015\060\071
\060\071\060\061\060\060\060\060\060\060\132\027\015\063\067\061
\062\063\061\062\063\065\071\065\071\132\060\201\230\061\013\060
\011\006\003\125\004\006\023\002\125\123\061\020\060\016\006\003
\125\004\010\023\007\101\162\151\172\157\156\141\061\023\060\021
\006\003\125\004\007\023\012\123\143\157\164\164\163\144\141\154
\145\061\045\060\043\006\003\125\004\012\023\034\123\164\141\162
\146\151\145\154\144\040\124\145\143\150\156\157\154\157\147\151
\145\163\054\040\111\156\143\056\061\073\060\071\006\003\125\004

\003\023\062\123\164\141\162\146\151\145\154\144\040\123\145\162
\166\151\143\145\163\040\122\157\157\164\040\103\145\162\164\151
\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164\171
\040\055\040\107\062\060\202\001\042\060\015\006\011\052\206\110
\206\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001
\012\002\202\001\001\000\325\014\072\304\052\371\116\342\365\276
\031\227\137\216\210\123\261\037\077\313\317\237\040\023\155\051
\072\310\017\175\074\367\153\166\070\143\331\066\140\250\233\136
\134\000\200\262\057\131\177\366\207\371\045\103\206\347\151\033
\122\232\220\341\161\343\330\055\015\116\157\366\310\111\331\266
\363\032\126\256\053\266\164\024\353\317\373\046\343\032\272\035
\226\056\152\073\130\224\211\107\126\377\045\240\223\160\123\203
\332\204\164\024\303\147\236\004\150\072\337\216\100\132\035\112
\116\317\103\221\073\347\126\326\000\160\313\122\356\173\175\256
\072\347\274\061\371\105\366\302\140\317\023\131\002\053\200\314
\064\107\337\271\336\220\145\155\002\317\054\221\246\246\347\336
\205\030\111\174\146\116\243\072\155\251\265\356\064\056\272\015
\003\270\063\337\107\353\261\153\215\045\331\233\316\201\321\105
\106\062\226\160\207\336\002\016\111\103\205\266\154\163\273\144
\352\141\101\254\311\324\124\337\207\057\307\042\262\046\314\237
\131\124\150\237\374\276\052\057\304\125\034\165\100\140\027\205
\002\125\071\213\177\005\002\003\001\000\001\243\102\060\100\060
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377
\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006
\060\035\006\003\125\035\016\004\026\004\024\234\137\000\337\252
\001\327\060\053\070\210\242\270\155\112\234\362\021\221\203\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\003\202
\001\001\000\113\066\246\204\167\151\335\073\031\237\147\043\010
\157\016\141\311\375\204\334\137\330\066\201\315\330\033\101\055
\237\140\335\307\032\150\331\321\156\206\341\210\043\317\023\336
\103\317\342\064\263\004\235\037\051\325\277\370\136\310\325\301
\275\356\222\157\062\164\362\221\202\057\275\202\102\172\255\052
\267\040\175\115\274\172\125\022\302\025\352\275\367\152\225\056
\154\164\237\317\034\264\362\305\001\243\205\320\162\076\255\163
\253\013\233\165\014\155\105\267\216\224\254\226\067\265\240\320
\217\025\107\016\343\350\203\335\217\375\357\101\001\167\314\047
\251\142\205\063\362\067\010\357\161\317\167\006\336\310\031\035
\210\100\317\175\106\035\377\036\307\341\316\377\043\333\306\372
\215\125\116\251\002\347\107\021\106\076\364\375\275\173\051\046
\273\251\141\142\067\050\266\055\052\366\020\206\144\311\160\247
\322\255\267\051\160\171\352\074\332\143\045\237\375\150\267\060
\354\160\373\165\212\267\155\140\147\262\036\310\271\351\330\250
\157\002\213\147\015\115\046\127\161\332\040\374\301\112\120\215
\261\050\272
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

```
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Starfield Services Root Certificate Authority - G2"
# Issuer: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies,
Inc.",L=Scottsdale,ST=Arizona,C=US
# Serial Number: 0 (0x0)
# Subject: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies,
Inc.",L=Scottsdale,ST=Arizona,C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After : Thu Dec 31 23:59:59 2037
# Fingerprint (SHA-256):
56:8D:69:05:A2:C8:87:08:A4:B3:02:51:90:ED:CF:ED:B1:97:4A:60:6A:13:C6:E5:29:0F:CB:2A:E6:3E:DA:B5
#
 Fingerprint (SHA1): 92:5A:8F:8D:2C:6D:04:E0:66:5F:59:6A:FF:22:D8:63:E8:25:6F:3F
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Services Root Certificate Authority - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\222\132\217\215\054\155\004\340\146\137\131\152\377\042\330\143
\350\045\157\077
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\027\065\164\257\173\141\034\353\364\371\074\342\356\100\371\242
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\230\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012
\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\073
\060\071\006\003\125\004\003\023\062\123\164\141\162\146\151\145
\154\144\040\123\145\162\166\151\143\145\163\040\122\157\157\164
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\040\055\040\107\062
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
```

```
# Certificate "AffirmTrust Commercial"
#
# Issuer: CN=AffirmTrust Commercial,O=AffirmTrust,C=US
# Serial Number:77:77:06:27:26:a9:b1:7c
# Subject: CN=AffirmTrust Commercial,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:06:06 2010
# Not Valid After : Tue Dec 31 14:06:06 2030
# Fingerprint (SHA-256):
03:76:AB:1D:54:C5:F9:80:3C:E4:B2:E2:01:A0:EE:7E:EF:7B:57:B6:36:E8:A9:3C:9B:8D:48:60:C9:6F:5F:A7
# Fingerprint (SHA1): F9:B5:B6:32:45:5F:9C:BE:EC:57:5F:80:DC:E9:6E:2C:C7:B2:78:B7
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN
 CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Commercial"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\037\060\035\006\003\125\004\003\014\026
\101\146\146\151\162\155\124\162\165\163\164\040\103\157\155\155
\145\162\143\151\141\154
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\037\060\035\006\003\125\004\003\014\026
\101\146\146\151\162\155\124\162\165\163\164\040\103\157\155\155
\145\162\143\151\141\154
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\167\167\006\047\046\251\261\174
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\114\060\202\002\064\240\003\002\001\002\002\010\167
\167\006\047\046\251\261\174\060\015\006\011\052\206\110\206\367
\015\001\001\013\005\000\060\104\061\013\060\011\006\003\125\004
\006\023\002\125\123\061\024\060\022\006\003\125\004\012\014\013
\101\146\146\151\162\155\124\162\165\163\164\061\037\060\035\006
\003\125\004\003\014\026\101\146\146\151\162\155\124\162\165\163
\164\040\103\157\155\155\145\162\143\151\141\154\060\036\027\015
\061\060\060\061\062\071\061\064\060\066\060\066\132\027\015\063
\060\061\062\063\061\061\064\060\066\060\066\132\060\104\061\013
\060\011\006\003\125\004\006\023\002\125\123\061\024\060\022\006
\003\125\004\012\014\013\101\146\146\151\162\155\124\162\165\163
\164\061\037\060\035\006\003\125\004\003\014\026\101\146\146\151
```

\162\155\124\162\165\163\164\040\103\157\155\155\145\162\143\151
\141\154\060\202\001\042\060\015\006\011\052\206\110\206\367\015
\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202
\001\001\000\366\033\117\147\007\053\241\025\365\006\042\313\037
\001\262\343\163\105\006\104\111\054\273\111\045\024\326\316\303
\267\253\054\117\306\101\062\224\127\372\022\247\133\016\342\217
\037\036\206\031\247\252\265\055\271\137\015\212\302\257\205\065
\171\062\055\273\034\142\067\362\261\133\112\075\312\315\161\137
\351\102\276\224\350\310\336\371\042\110\144\306\345\253\306\053
\155\255\005\360\372\325\013\317\232\345\360\120\244\213\073\107
\245\043\133\172\172\370\063\077\270\357\231\227\343\040\301\326
\050\211\317\224\373\271\105\355\343\100\027\021\324\164\360\013
\061\342\053\046\152\233\114\127\256\254\040\076\272\105\172\005
\363\275\233\151\025\256\175\116\040\143\304\065\166\072\007\002
\311\067\375\307\107\356\350\361\166\035\163\025\362\227\244\265
\310\172\171\331\102\252\053\177\134\376\316\046\117\243\146\201
\065\257\104\272\124\036\034\060\062\145\235\346\074\223\136\120
\116\172\343\072\324\156\314\032\373\371\322\067\256\044\052\253
\127\003\042\050\015\111\165\177\267\050\332\165\277\216\343\334
\016\171\061\002\003\001\000\001\243\102\060\100\060\035\006\003
\125\035\016\004\026\004\024\235\223\306\123\213\136\312\257\077
\237\036\017\345\231\225\274\044\366\224\217\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006\003
\125\035\017\001\001\377\004\004\003\002\001\006\060\015\006\011
\052\206\110\206\367\015\001\001\013\005\000\003\202\001\001\000
\130\254\364\004\016\315\300\015\377\012\375\324\272\026\137\051
\275\173\150\231\130\111\322\264\035\067\115\177\047\175\106\006
\135\103\306\206\056\076\163\262\046\175\117\223\251\266\304\052
\232\253\041\227\024\261\336\214\323\253\211\025\330\153\044\324
\361\026\256\330\244\134\324\177\121\216\355\030\001\261\223\143
\275\274\370\141\200\232\236\261\316\102\160\342\251\175\006\045
\175\047\241\376\157\354\263\036\044\332\343\113\125\032\000\073
\065\264\073\331\327\135\060\375\201\023\211\362\302\006\053\355
\147\304\216\311\103\262\134\153\025\211\002\274\142\374\116\362
\265\063\252\262\157\323\012\242\120\343\366\073\350\056\104\302
\333\146\070\251\063\126\110\361\155\033\063\215\015\214\077\140
\067\235\323\312\155\176\064\176\015\237\162\166\213\033\237\162
\375\122\065\101\105\002\226\057\034\262\232\163\111\041\261\111
\107\105\107\264\357\152\064\021\311\115\232\314\131\267\326\002
\236\132\116\145\265\224\256\033\337\051\260\026\361\277\000\236
\007\072\027\144\265\004\265\043\041\231\012\225\073\227\174\357
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "AffirmTrust Commercial"

```
# Issuer: CN=AffirmTrust Commercial,O=AffirmTrust,C=US
# Serial Number:77:77:06:27:26:a9:b1:7c
# Subject: CN=AffirmTrust Commercial,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:06:06 2010
# Not Valid After : Tue Dec 31 14:06:06 2030
# Fingerprint (SHA-256):
03:76:AB:1D:54:C5:F9:80:3C:E4:B2:E2:01:A0:EE:7E:EF:7B:57:B6:36:E8:A9:3C:9B:8D:48:60:C9:6F:5F:A7
# Fingerprint (SHA1): F9:B5:B6:32:45:5F:9C:BE:EC:57:5F:80:DC:E9:6E:2C:C7:B2:78:B7
CKA_CLASS
 CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Commercial"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\371\265\266\062\105\137\234\276\354\127\137\200\334\351\156\054
\307\262\170\267
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\202\222\272\133\357\315\212\157\246\075\125\371\204\366\326\267
END
CKA_ISSUER MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\037\060\035\006\003\125\004\003\014\026
\101\146\146\151\162\155\124\162\165\163\164\040\103\157\155\155
\145\162\143\151\141\154
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\167\167\006\047\046\251\261\174
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
#
 Certificate "AffirmTrust Networking"
#
# Issuer: CN=AffirmTrust Networking,O=AffirmTrust,C=US
# Serial Number:7c:4f:04:39:1c:d4:99:2d
# Subject: CN=AffirmTrust Networking,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:08:24 2010
# Not Valid After : Tue Dec 31 14:08:24 2030
# Fingerprint (SHA-256):
0A:81:EC:5A:92:97:77:F1:45:90:4A:F3:8D:5D:50:9F:66:B5:E2:C5:8F:CD:B5:31:05:8B:0E:17:F3:F0:B4:1B
# Fingerprint (SHA1): 29:36:21:02:8B:20:ED:02:F5:66:C5:32:D1:D6:ED:90:9F:45:00:2F
```

```
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Networking"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\037\060\035\006\003\125\004\003\014\026
\101\146\146\151\162\155\124\162\165\163\164\040\116\145\164\167
\157\162\153\151\156\147
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\037\060\035\006\003\125\004\003\014\026
\101\146\146\151\162\155\124\162\165\163\164\040\116\145\164\167
\157\162\153\151\156\147
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\174\117\004\071\034\324\231\055
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\114\060\202\002\064\240\003\002\001\002\002\010\174
\117\004\071\034\324\231\055\060\015\006\011\052\206\110\206\367
\015\001\001\005\005\000\060\104\061\013\060\011\006\003\125\004
\006\023\002\125\123\061\024\060\022\006\003\125\004\012\014\013
\101\146\146\151\162\155\124\162\165\163\164\061\037\060\035\006
\003\125\004\003\014\026\101\146\146\151\162\155\124\162\165\163
\164\040\116\145\164\167\157\162\153\151\156\147\060\036\027\015
\061\060\060\061\062\071\061\064\060\070\062\064\132\027\015\063
\060\061\062\063\061\061\064\060\070\062\064\132\060\104\061\013
\060\011\006\003\125\004\006\023\002\125\123\061\024\060\022\006
\003\125\004\012\014\013\101\146\146\151\162\155\124\162\165\163
\164\061\037\060\035\006\003\125\004\003\014\026\101\146\146\151
\162\155\124\162\165\163\164\040\116\145\164\167\157\162\153\151
\156\147\060\202\001\042\060\015\006\011\052\206\110\206\367\015
\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202
\001\001\000\264\204\314\063\027\056\153\224\154\153\141\122\240
\353\243\317\171\224\114\345\224\200\231\313\125\144\104\145\217
\147\144\342\006\343\134\067\111\366\057\233\204\204\036\055\362
\140\235\060\116\314\204\205\342\054\317\036\236\376\066\253\063
\167\065\104\330\065\226\032\075\066\350\172\016\330\325\107\241
\152\151\213\331\374\273\072\256\171\132\325\364\326\161\273\232
\220\043\153\232\267\210\164\207\014\036\137\271\236\055\372\253
```

\123\053\334\273\166\076\223\114\010\010\214\036\242\043\034\324
\152\255\042\272\231\001\056\155\145\313\276\044\146\125\044\113
\100\104\261\033\327\341\302\205\300\336\020\077\075\355\270\374
\361\361\043\123\334\277\145\227\157\331\371\100\161\215\175\275
\225\324\316\276\240\136\047\043\336\375\246\320\046\016\000\051
\353\074\106\360\075\140\277\077\120\322\334\046\101\121\236\024
\067\102\004\243\160\127\250\033\207\355\055\372\173\356\214\012
\343\251\146\211\031\313\101\371\335\104\066\141\317\342\167\106
\310\175\366\364\222\201\066\375\333\064\361\162\176\363\014\026
\275\264\025\002\003\001\000\001\243\102\060\100\060\035\006\003
\125\035\016\004\026\004\024\007\037\322\347\234\332\302\156\242
\100\264\260\172\120\020\120\164\304\310\275\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006\003
\125\035\017\001\001\377\004\004\003\002\001\006\060\015\006\011
\052\206\110\206\367\015\001\001\005\005\000\003\202\001\001\000
\211\127\262\026\172\250\302\375\326\331\233\233\064\302\234\264
\062\024\115\247\244\337\354\276\247\276\370\103\333\221\067\316
\264\062\056\120\125\032\065\116\166\103\161\040\357\223\167\116
\025\160\056\207\303\301\035\155\334\313\265\047\324\054\126\321
\122\123\072\104\322\163\310\304\033\005\145\132\142\222\234\356
\101\215\061\333\347\064\352\131\041\325\001\172\327\144\270\144
\071\315\311\355\257\355\113\003\110\247\240\231\001\200\334\145
\243\066\256\145\131\110\117\202\113\310\145\361\127\035\345\131
\056\012\077\154\330\321\365\345\011\264\154\124\000\012\340\025
\115\207\165\155\267\130\226\132\335\155\322\000\240\364\233\110
\276\303\067\244\272\066\340\174\207\205\227\032\025\242\336\056
\242\133\275\257\030\371\220\120\315\160\131\370\047\147\107\313
\307\240\007\072\175\321\054\135\154\031\072\146\265\175\375\221
\157\202\261\276\010\223\333\024\107\361\242\067\307\105\236\074
\307\167\257\144\250\223\337\366\151\203\202\140\362\111\102\064
\355\132\000\124\205\034\026\066\222\014\134\372\246\255\277\333
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL
CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "AffirmTrust Networking"
Issuer: CN=AffirmTrust Networking,O=AffirmTrust,C=US
Serial Number:7c:4f:04:39:1c:d4:99:2d
Subject: CN=AffirmTrust Networking,O=AffirmTrust,C=US
Not Valid Before: Fri Jan 29 14:08:24 2010
Not Valid After : Tue Dec 31 14:08:24 2030
Fingerprint (SHA-256):
0A:81:EC:5A:92:97:77:F1:45:90:4A:F3:8D:5D:50:9F:66:B5:E2:C5:8F:CD:B5:31:05:8B:0E:17:F3:F0:B4:1B
Fingerprint (SHA1): 29:36:21:02:8B:20:ED:02:F5:66:C5:32:D1:D6:ED:90:9F:45:00:2F
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

```
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Networking"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\051\066\041\002\213\040\355\002\365\146\305\062\321\326\355\220
\237\105\000\057
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\102\145\312\276\001\232\232\114\251\214\101\111\315\300\325\177
END
CKA_ISSUER MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\037\060\035\006\003\125\004\003\014\026
\101\146\146\151\162\155\124\162\165\163\164\040\116\145\164\167
\157\162\153\151\156\147
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\010\174\117\004\071\034\324\231\055
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "AffirmTrust Premium"
#
# Issuer: CN=AffirmTrust Premium,O=AffirmTrust,C=US
# Serial Number:6d:8c:14:46:b1:a6:0a:ee
# Subject: CN=AffirmTrust Premium,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:10:36 2010
# Not Valid After : Mon Dec 31 14:10:36 2040
# Fingerprint (SHA-256):
70:A7:3F:7F:37:6B:60:07:42:48:90:45:34:B1:14:82:D5:BF:0E:69:8E:CC:49:8D:F5:25:77:EB:F2:E9:3B:9A
# Fingerprint (SHA1): D8:A6:33:2C:E0:03:6F:B1:85:F6:63:4F:7D:6A:06:65:26:32:28:27
CKA_CLASS
 CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Premium"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\101\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
```

\124\162\165\163\164\061\034\060\032\006\003\125\004\003\014\023
\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155
\151\165\155
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\101\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\034\060\032\006\003\125\004\003\014\023
\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155
\151\165\155
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\155\214\024\106\261\246\012\356
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\106\060\202\003\056\240\003\002\001\002\002\010\155
\214\024\106\261\246\012\356\060\015\006\011\052\206\110\206\367
\015\001\001\014\005\000\060\101\061\013\060\011\006\003\125\004
\006\023\002\125\123\061\024\060\022\006\003\125\004\012\014\013
\101\146\146\151\162\155\124\162\165\163\164\061\034\060\032\006
\003\125\004\003\014\023\101\146\146\151\162\155\124\162\165\163
\164\040\120\162\145\155\151\165\155\060\036\027\015\061\060\060
\061\062\071\061\064\061\060\063\066\132\027\015\064\060\061\062
\063\061\061\064\061\060\063\066\132\060\101\061\013\060\011\006
\003\125\004\006\023\002\125\123\061\024\060\022\006\003\125\004
\012\014\013\101\146\146\151\162\155\124\162\165\163\164\061\034
\060\032\006\003\125\004\003\014\023\101\146\146\151\162\155\124
\162\165\163\164\040\120\162\145\155\151\165\155\060\202\002\042
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\002\017\000\060\202\002\012\002\202\002\001\000\304\022\337
\251\137\376\101\335\335\365\237\212\343\366\254\341\074\170\232
\274\330\360\177\172\240\063\052\334\215\040\133\256\055\157\347
\223\331\066\160\152\150\317\216\121\243\205\133\147\004\240\020
\044\157\135\050\202\301\227\127\330\110\051\023\266\341\276\221
\115\337\205\014\123\030\232\036\044\242\117\217\360\242\205\013
\313\364\051\177\322\244\130\356\046\115\311\252\250\173\232\331
\372\070\336\104\127\025\345\370\214\310\331\110\342\015\026\047
\035\036\310\203\205\045\267\272\252\125\101\314\003\042\113\055
\221\215\213\346\211\257\146\307\351\377\053\351\074\254\332\322
\263\303\341\150\234\211\370\172\000\126\336\364\125\225\154\373
\272\144\335\142\213\337\013\167\062\353\142\314\046\232\233\273
\252\142\203\114\264\006\172\060\310\051\277\355\006\115\227\271
\034\304\061\053\325\137\274\123\022\027\234\231\127\051\146\167
\141\041\061\007\056\045\111\235\030\362\356\363\053\161\214\265
\272\071\007\111\167\374\357\056\222\220\005\215\055\057\167\173
\357\103\277\065\273\232\330\371\163\247\054\362\320\127\356\050
\116\046\137\217\220\150\011\057\270\370\334\006\351\056\232\076

\121\247\321\042\304\012\247\070\110\154\263\371\377\175\253\206
\127\343\272\326\205\170\167\272\103\352\110\177\366\330\276\043
\155\036\277\321\066\154\130\134\361\356\244\031\124\032\365\003
\322\166\346\341\214\275\074\263\323\110\113\342\310\370\177\222
\250\166\106\234\102\145\076\244\036\301\007\003\132\106\055\270
\227\363\267\325\262\125\041\357\272\334\114\000\227\373\024\225
\047\063\277\350\103\107\106\322\010\231\026\140\073\232\176\322
\346\355\070\352\354\001\036\074\110\126\111\011\307\114\067\000
\236\210\016\300\163\341\157\146\351\162\107\060\076\020\345\013
\003\311\232\102\000\154\305\224\176\141\304\212\337\177\202\032
\013\131\304\131\062\167\263\274\140\151\126\071\375\264\006\173
\054\326\144\066\331\275\110\355\204\037\176\245\042\217\052\270
\102\364\202\267\324\123\220\170\116\055\032\375\201\157\104\327
\073\001\164\226\102\340\000\342\056\153\352\305\356\162\254\273
\277\376\352\252\250\370\334\366\262\171\212\266\147\002\003\001
\000\001\243\102\060\100\060\035\006\003\125\035\016\004\026\004
\024\235\300\147\246\014\042\331\046\365\105\253\246\145\122\021
\047\330\105\254\143\060\017\006\003\125\035\023\001\001\377\004
\005\060\003\001\001\377\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\006\060\015\006\011\052\206\110\206\367\015
\001\001\014\005\000\003\202\002\001\000\263\127\115\020\142\116
\072\344\254\352\270\034\257\062\043\310\263\111\132\121\234\166
\050\215\171\252\127\106\027\325\365\122\366\267\104\350\010\104
\277\030\204\322\013\200\315\305\022\375\000\125\005\141\207\101
\334\265\044\236\074\304\330\310\373\160\236\057\170\226\203\040
\066\336\174\017\151\023\210\245\165\066\230\010\246\306\337\254
\316\343\130\326\267\076\336\272\363\353\064\100\330\242\201\365
\170\077\057\325\245\374\331\242\324\136\004\016\027\255\376\101
\360\345\262\162\372\104\202\063\102\350\055\130\367\126\214\142
\077\272\102\260\234\014\134\176\056\145\046\134\123\117\000\262
\170\176\241\015\231\055\215\270\035\216\242\304\260\375\140\320
\060\244\216\310\004\142\251\304\355\065\336\172\227\355\016\070
\136\222\057\223\160\245\251\234\157\247\175\023\035\176\306\010
\110\261\136\147\353\121\010\045\351\346\045\153\122\051\221\234
\322\071\163\010\127\336\231\006\264\133\235\020\006\341\302\000
\250\270\034\112\002\012\024\320\301\101\312\373\214\065\041\175
\202\070\362\251\124\221\031\065\223\224\155\152\072\305\262\320
\273\211\206\223\350\233\311\017\072\247\172\270\241\360\170\106
\372\374\067\057\345\212\204\363\337\376\004\331\241\150\240\057
\044\342\011\225\006\325\225\312\341\044\226\353\174\366\223\005
\273\355\163\351\055\321\165\071\327\347\044\333\330\116\137\103
\217\236\320\024\071\277\125\160\110\231\127\061\264\234\356\112
\230\003\226\060\037\140\006\356\033\043\376\201\140\043\032\107
\142\205\245\314\031\064\200\157\263\254\032\343\237\360\173\110
\255\325\001\331\147\266\251\162\223\352\055\146\265\262\270\344
\075\074\262\357\114\214\352\353\007\277\253\065\232\125\206\274
\030\246\265\250\136\264\203\154\153\151\100\323\237\334\361\303
\151\153\271\341\155\011\364\361\252\120\166\012\172\175\172\027

\241\125\226\102\231\061\011\335\140\021\215\005\060\176\346\216
\106\321\235\024\332\307\027\344\005\226\214\304\044\265\033\317
\024\007\262\100\370\243\236\101\206\274\004\320\153\226\310\052
\200\064\375\277\357\006\243\335\130\305\205\075\076\217\376\236
\051\340\266\270\011\150\031\034\030\103
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "AffirmTrust Premium"
Issuer: CN=AffirmTrust Premium,O=AffirmTrust,C=US
Serial Number:6d:8c:14:46:b1:a6:0a:ee
Subject: CN=AffirmTrust Premium,O=AffirmTrust,C=US
Not Valid Before: Fri Jan 29 14:10:36 2010
Not Valid After : Mon Dec 31 14:10:36 2040
Fingerprint (SHA-256):
70:A7:3F:7F:37:6B:60:07:42:48:90:45:34:B1:14:82:D5:BF:0E:69:8E:CC:49:8D:F5:25:77:EB:F2:E9:3B:9A
#
Fingerprint (SHA1): D8:A6:33:2C:E0:03:6F:B1:85:F6:63:4F:7D:6A:06:65:26:32:28:27
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Premium"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\330\246\063\054\340\003\157\261\205\366\143\117\175\152\006\145
\046\062\050\047
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\304\135\016\110\266\254\050\060\116\012\274\371\070\026\207\127
END
CKA_ISSUER MULTILINE_OCTAL
\060\101\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\034\060\032\006\003\125\004\003\014\023
\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155
\151\165\155
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\155\214\024\106\261\246\012\356
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING
CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

```
#
# Certificate "AffirmTrust Premium ECC"
#
# Issuer: CN=AffirmTrust Premium ECC,O=AffirmTrust,C=US
# Serial Number:74:97:25:8a:c7:3f:7a:54
# Subject: CN=AffirmTrust Premium ECC,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:20:24 2010
# Not Valid After : Mon Dec 31 14:20:24 2040
# Fingerprint (SHA-256):
BD:71:FD:F6:DA:97:E4:CF:62:D1:64:7A:DD:25:81:B0:7D:79:AD:F8:39:7E:B4:EC:BA:9C:5E:84:88:82:14:23
# Fingerprint (SHA1): B8:23:6B:00:2F:1D:16:86:53:01:55:6C:11:A4:37:CA:EB:FF:C3:BB
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Premium ECC"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\040\060\036\006\003\125\004\003\014\027
\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155
\151\165\155\040\105\103\103
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\040\060\036\006\003\125\004\003\014\027
\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155
\151\165\155\040\105\103\103
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\164\227\045\212\307\077\172\124
END
CKA_VALUE MULTILINE_OCTAL
\060\202\001\376\060\202\001\205\240\003\002\001\002\002\010\164
\227\045\212\307\077\172\124\060\012\006\010\052\206\110\316\075
\004\003\003\060\105\061\013\060\011\006\003\125\004\006\023\002
\125\123\061\024\060\022\006\003\125\004\012\014\013\101\146\146
\151\162\155\124\162\165\163\164\061\040\060\036\006\003\125\004
\003\014\027\101\146\146\151\162\155\124\162\165\163\164\040\120
\162\145\155\151\165\155\040\105\103\103\060\036\027\015\061\060
\060\061\062\071\061\064\062\060\062\064\132\027\015\064\060\061
\062\063\061\061\064\062\060\062\064\132\060\105\061\013\060\011
\006\003\125\004\006\023\002\125\123\061\024\060\022\006\003\125
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\004\012\014\013\101\146\146\151\162\155\124\162\165\163\164\061
\040\060\036\006\003\125\004\003\014\027\101\146\146\151\162\155
\124\162\165\163\164\040\120\162\145\155\151\165\155\040\105\103
\103\060\166\060\020\006\007\052\206\110\316\075\002\001\006\005
\053\201\004\000\042\003\142\000\004\015\060\136\033\025\235\003
\320\241\171\065\267\072\074\222\172\312\025\034\315\142\363\234
\046\134\007\075\345\124\372\243\326\314\022\352\364\024\137\350
\216\031\253\057\056\110\346\254\030\103\170\254\320\067\303\275
\262\315\054\346\107\342\032\346\143\270\075\056\057\170\304\117
\333\364\017\244\150\114\125\162\153\225\035\116\030\102\225\170
\314\067\074\221\342\233\145\053\051\243\102\060\100\060\035\006
\003\125\035\016\004\026\004\024\232\257\051\172\300\021\065\065
\046\121\060\000\303\152\376\100\325\256\326\074\060\017\006\003
\125\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006
\003\125\035\017\001\001\377\004\004\003\002\001\006\060\012\006
\010\052\206\110\316\075\004\003\003\003\147\000\060\144\002\060
\027\011\363\207\210\120\132\257\310\300\102\277\107\137\365\154
\152\206\340\304\047\164\344\070\123\327\005\177\033\064\343\306
\057\263\312\011\074\067\235\327\347\270\106\361\375\241\342\161
\002\060\102\131\207\103\324\121\337\272\323\011\062\132\316\210
\176\127\075\234\137\102\153\365\007\055\265\360\202\223\371\131
\157\256\144\372\130\345\213\036\343\143\276\265\201\315\157\002
\214\171
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "AffirmTrust Premium ECC"
Issuer: CN=AffirmTrust Premium ECC,O=AffirmTrust,C=US
Serial Number:74:97:25:8a:c7:3f:7a:54
Subject: CN=AffirmTrust Premium ECC,O=AffirmTrust,C=US
Not Valid
 Before: Fri Jan 29 14:20:24 2010
Not Valid After : Mon Dec 31 14:20:24 2040
Fingerprint (SHA-256):
BD:71:FD:F6:DA:97:E4:CF:62:D1:64:7A:DD:25:81:B0:7D:79:AD:F8:39:7E:B4:EC:BA:9C:5E:84:88:82:14:23
Fingerprint (SHA1): B8:23:6B:00:2F:1D:16:86:53:01:55:6C:11:A4:37:CA:EB:FF:C3:BB
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Premium ECC"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\270\043\153\000\057\035\026\206\123\001\125\154\021\244\067\312
\353\377\303\273
END

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CKA_CERT_MD5_HASH MULTILINE_OCTAL
\144\260\011\125\317\261\325\231\342\276\023\253\246\135\352\115
END
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\040\060\036\006\003\125\004\003\014\027
\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155
\151\165\155\040\105\103\103
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\010\164\227\045\212\307\077\172\124
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Certum Trusted Network CA"
#
# Issuer: CN=Certum Trusted Network CA,OU=Certum Certification Authority,O=Unizeto Technologies
S.A.,C=PL
# Serial Number: 279744 (0x444c0)
# Subject: CN=Certum Trusted Network CA,OU=Certum Certification Authority,O=Unizeto Technologies
S.A.,C=PL
# Not Valid Before: Wed Oct 22 12:07:37 2008
# Not Valid After : Mon Dec 31 12:07:37 2029
# Fingerprint (SHA-256):
5C:58:46:8D:55:F5:8E:49:7E:74:39:82:D2:B5:00:10:B6:D1:65:37:4A:CF:83:A7:D4:A3:2D:B7:68:C4:40:8E
# Fingerprint (SHA1): 07:E0:32:E0:20:B7:2C:3F:19:2F:06:28:A2:59:3A:19:A7:0F:06:9E
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE
 CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Network CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\176\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145\164
\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040\123
\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145
\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\061\042\060\040
\006\003\125\004\003\023\031\103\145\162\164\165\155\040\124\162
\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103\101
```

END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\176\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145\164
\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040\123
\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145
\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\061\042\060\040
\006\003\125\004\003\023\031\103\145\162\164\165\155\040\124\162
\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103\101
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\003\004\104\300
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\273\060\202\002\243\240\003\002\001\002\002\003\004
\104\300\060\015\006\011\052\206\110\206\367\015\001\001\005\005
\000\060\176\061\013\060\011\006\003\125\004\006\023\002\120\114
\061\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145
\164\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040
\123\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103
\145\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\061\042\060
\040\006\003\125\004\003\023\031\103\145\162\164\165\155\040\124
\162\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103
\101\060\036\027\015\060\070\061\060\062\062\061\062\060\067\063
\067\132\027\015\062\071\061\062\063\061\061\062\060\067\063\067
\132\060\176\061\013\060\011\006\003\125\004\006\023\002\120\114
\061\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145
\164\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040
\123\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103
\145\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\061\042\060
\040\006\003\125\004\003\023\031\103\145\162\164\165\155\040\124
\162\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103
\101\060\202\001\042\060\015\006\011\052\206\110\206\367\015\001
\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202\001
\001\000\343\373\175\243\162\272\302\360\311\024\207\365\153\001
\116\341\156\100\007\272\155\047\135\177\367\133\055\263\132\307
\121\137\253\244\062\246\141\207\266\156\017\206\322\060\002\227
\370\327\151\127\241\030\071\135\152\144\171\306\001\131\254\074
\061\112\070\174\322\004\322\113\050\350\040\137\073\007\242\314
\115\163\333\363\256\117\307\126\325\132\247\226\211\372\363\253
\150\324\043\206\131\047\317\011\047\274\254\156\162\203\034\060
\162\337\340\242\351\322\341\164\165\031\275\052\236\173\025\124
\004\033\327\103\071\255\125\050\305\342\032\273\364\300\344\256

\070\111\063\314\166\205\237\071\105\322\244\236\362\022\214\121
\370\174\344\055\177\365\254\137\353\026\237\261\055\321\272\314
\221\102\167\114\045\311\220\070\157\333\360\314\373\216\036\227
\131\076\325\140\116\346\005\050\355\111\171\023\113\272\110\333
\057\371\162\323\071\312\376\037\330\064\162\365\264\100\317\061
\001\303\354\336\021\055\027\135\037\270\120\321\136\031\247\151
\336\007\063\050\312\120\225\371\247\124\313\124\206\120\105\251
\371\111\002\003\001\000\001\243\102\060\100\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003
\125\035\016\004\026\004\024\010\166\315\313\007\377\044\366\305
\315\355\273\220\274\342\204\067\106\165\367\060\016\006\003\125
\035\017\001\001\377\004\004\003\002\001\006\060\015\006\011\052
\206\110\206\367\015\001\001\005\005\000\003\202\001\001\000\246
\250\255\042\316\001\075\246\243\377\142\320\110\235\213\136\162
\260\170\104\343\334\034\257\011\375\043\110\372\275\052\304\271
\125\004\265\020\243\215\047\336\013\202\143\320\356\336\014\067
\171\101\133\042\262\260\232\101\134\246\160\340\324\320\167\313
\043\323\000\340\154\126\057\341\151\015\015\331\252\277\041\201
\120\331\006\245\250\377\225\067\320\252\376\342\263\365\231\055
\105\204\212\345\102\011\327\164\002\057\367\211\330\231\351\274
\047\324\107\215\272\015\106\034\167\317\024\244\034\271\244\061
\304\234\050\164\003\064\377\063\031\046\245\351\015\164\267\076
\227\306\166\350\047\226\243\146\335\341\256\362\101\133\312\230
\126\203\163\160\344\206\032\322\061\101\272\057\276\055\023\132
\166\157\116\350\116\201\016\077\133\003\042\240\022\276\146\130
\021\112\313\003\304\264\052\052\055\226\027\340\071\124\274\110
\323\166\047\235\232\055\006\246\311\354\071\322\253\333\237\232
\013\047\002\065\051\261\100\225\347\371\350\234\125\210\031\106
\326\267\064\365\176\316\071\232\331\070\361\121\367\117\054
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Certum Trusted Network CA"
Issuer: CN=Certum Trusted Network CA,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
Serial Number: 279744 (0x444c0)
Subject: CN=Certum Trusted Network CA,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
Not Valid Before: Wed Oct 22 12:07:37 2008
Not Valid After : Mon Dec 31 12:07:37 2029
Fingerprint (SHA-256):
5C:58:46:8D:55:F5:8E:49:7E:74:39:82:D2:B5:00:10:B6:D1:65:37:4A:CF:83:A7:D4:A3:2D:B7:68:C4:40:8E
Fingerprint (SHA1): 07:E0:32:E0:20:B7:2C:3F:19:2F:06:28:A2:59:3A:19:A7:0F:06:9E
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE

```
CKA_PRIVATE
 CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Network CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\007\340\062\340\040\267\054\077\031\057\006\050\242\131\072\031
\247\017\006\236
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\325\351\201\100\305\030\151\374\106\054\211\165\142\017\252\170
END
CKA_ISSUER MULTILINE_OCTAL
\060\176\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145\164
\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040\123
\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145
\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\061\042\060\040
\006\003\125\004\003\023\031\103\145\162\164\165\155\040\124\162
\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\004\104\300
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION
 CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "TWCA Root Certification Authority"
#
# Issuer: CN=TWCA Root Certification Authority,OU=Root CA,O=TAIWAN-CA,C=TW
# Serial Number: 1 (0x1)
# Subject: CN=TWCA Root Certification Authority,OU=Root CA,O=TAIWAN-CA,C=TW
# Not Valid Before: Thu Aug 28 07:24:33 2008
# Not Valid After : Tue Dec 31 15:59:59 2030
# Fingerprint (SHA-256):
BF:D8:8F:E1:10:1C:41:AE:3E:80:1B:F8:BE:56:35:0E:E9:BA:D1:A6:B9:BD:51:5E:DC:5C:6D:5B:87:11:AC:44
# Fingerprint (SHA1): CF:9E:87:6D:D3:EB:FC:42:26:97:A3:B5:A3:7A:A0:76:A9:06:23:48
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TWCA Root Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
```

\060\137\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\022\060\020\006\003\125\004\012\014\011\124\101\111\127\101\116
\055\103\101\061\020\060\016\006\003\125\004\013\014\007\122\157
\157\164\040\103\101\061\052\060\050\006\003\125\004\003\014\041
\124\127\103\101\040\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\137\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\022\060\020\006\003\125\004\012\014\011\124\101\111\127\101\116
\055\103\101\061\020\060\016\006\003\125\004\013\014\007\122\157
\157\164\040\103\101\061\052\060\050\006\003\125\004\003\014\041
\124\127\103\101\040\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\173\060\202\002\143\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\137\061\013\060\011\006\003\125\004\006\023\002\124\127\061\022
\060\020\006\003\125\004\012\014\011\124\101\111\127\101\116\055
\103\101\061\020\060\016\006\003\125\004\013\014\007\122\157\157
\164\040\103\101\061\052\060\050\006\003\125\004\003\014\041\124
\127\103\101\040\122\157\157\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
\060\036\027\015\060\070\060\070\062\070\060\067\062\064\063\063
\132\027\015\063\060\061\062\063\061\061\065\065\071\065\071\132
\060\137\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\022\060\020\006\003\125\004\012\014\011\124\101\111\127\101\116
\055\103\101\061\020\060\016\006\003\125\004\013\014\007\122\157
\157\164\040\103\101\061\052\060\050\006\003\125\004\003\014\041
\124\127\103\101\040\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171\060\202\001\042\060\015\006\011\052\206\110\206\367\015\001
\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202\001
\001\000\260\176\162\270\244\003\224\346\247\336\011\070\221\112
\021\100\207\247\174\131\144\024\173\265\021\020\335\376\277\325
\300\273\126\342\205\045\364\065\162\017\370\123\320\101\341\104
\001\302\264\034\303\061\102\026\107\205\063\042\166\262\012\157
\017\345\045\120\117\205\206\276\277\230\056\020\147\036\276\021
\005\206\005\220\304\131\320\174\170\020\260\200\134\267\341\307
\053\165\313\174\237\256\265\321\235\043\067\143\247\334\102\242

\055\222\004\033\120\301\173\270\076\033\311\126\004\213\057\122
\233\255\251\126\351\301\377\255\251\130\207\060\266\201\367\227
\105\374\031\127\073\053\157\344\107\364\231\105\376\035\361\370
\227\243\210\035\067\034\134\217\340\166\045\232\120\370\240\124
\377\104\220\166\043\322\062\306\303\253\006\277\374\373\277\363
\255\175\222\142\002\133\051\323\065\243\223\232\103\144\140\135
\262\372\062\377\073\004\257\115\100\152\371\307\343\357\043\375
\153\313\345\017\213\070\015\356\012\374\376\017\230\237\060\061
\335\154\122\145\371\213\201\276\042\341\034\130\003\272\221\033
\211\007\002\003\001\000\001\243\102\060\100\060\016\006\003\125
\035\017\001\001\377\004\004\003\002\001\006\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003
\125\035\016\004\026\004\024\152\070\133\046\215\336\213\132\362
\117\172\124\203\031\030\343\010\065\246\272\060\015\006\011\052
\206\110\206\367\015\001\001\005\005\000\003\202\001\001\000\074
\325\167\075\332\337\211\272\207\014\010\124\152\040\120\222\276
\260\101\075\271\046\144\203\012\057\350\100\300\227\050\047\202
\060\112\311\223\377\152\347\246\000\177\211\102\232\326\021\345
\123\316\057\314\362\332\005\304\376\342\120\304\072\206\175\314
\332\176\020\011\073\222\065\052\123\262\376\353\053\005\331\154
\135\346\320\357\323\152\146\236\025\050\205\172\350\202\000\254
\036\247\011\151\126\102\323\150\121\030\276\124\232\277\104\101
\272\111\276\040\272\151\134\356\270\167\315\316\154\037\255\203
\226\030\175\016\265\024\071\204\361\050\351\055\243\236\173\036
\172\162\132\203\263\171\157\357\264\374\320\012\245\130\117\106
\337\373\155\171\131\362\204\042\122\256\017\314\373\174\073\347
\152\312\107\141\303\172\370\323\222\004\037\270\040\204\341\066
\124\026\307\100\336\073\212\163\334\337\306\011\114\337\354\332
\377\324\123\102\241\311\362\142\035\042\203\074\227\305\371\031
\142\047\254\145\042\327\323\074\306\345\216\262\123\314\111\316
\274\060\376\173\016\063\220\373\355\322\024\221\037\007\257
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "TWCA Root Certification Authority"
Issuer: CN=TWCA Root Certification Authority,OU=Root CA,O=TAIWAN-CA,C=TW
Serial Number: 1 (0x1)
Subject: CN=TWCA Root Certification Authority,OU=Root CA,O=TAIWAN-CA,C=TW
Not Valid Before: Thu Aug 28 07:24:33 2008
Not Valid After : Tue Dec 31 15:59:59 2030
Fingerprint (SHA-256):
BF:D8:8F:E1:10:1C:41:AE:3E:80:1B:F8:BE:56:35:0E:E9:BA:D1:A6:B9:BD:51:5E:DC:5C:6D:5B:87:11:AC:44
#
Fingerprint (SHA1): CF:9E:87:6D:D3:EB:FC:42:26:97:A3:B5:A3:7A:A0:76:A9:06:23:48
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

```
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TWCA Root Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\317\236\207\155\323\353\374\102\046\227\243\265\243\172\240\166
\251\006\043\110
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\252\010\217\366\371\173\267\362\261\247\036\233\352\352\275\171
END
CKA_ISSUER MULTILINE_OCTAL
\060\137\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\022\060\020\006\003\125\004\012\014\011\124\101\111\127\101\116
\055\103\101\061\020\060\016\006\003\125\004\013\014\007\122\157
\157\164\040\103\101\061\052\060\050\006\003\125\004\003\014\041
\124\127\103\101\040\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Explicitly Distrust DigiNotar Root CA"
#
# Issuer: E=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL
# Serial Number:0f:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff
# Subject: E=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL
# Not Valid Before: Fri Jul 27 17:19:37 2007
# Not Valid After : Mon Mar 31 18:19:22 2025
# Fingerprint (MD5): 0A:A4:D5:CC:BA:B4:FB:A3:59:E3:E6:01:DD:53:D9:4E
# Fingerprint (SHA1): C1:77:CB:4B:E0:B4:26:8E:F5:C7:CF:45:99:22:B9:B0:CE:BA:21:2F
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Explicitly Distrust DigiNotar Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT
 MULTILINE_OCTAL
\060\137\061\013\060\011\006\003\125\004\006\023\002\116\114\061
```

\022\060\020\006\003\125\004\012\023\011\104\151\147\151\116\157
\164\141\162\061\032\060\030\006\003\125\004\003\023\021\104\151
\147\151\116\157\164\141\162\040\122\157\157\164\040\103\101\061
\040\060\036\006\011\052\206\110\206\367\015\001\011\001\026\021
\151\156\146\157\100\144\151\147\151\156\157\164\141\162\056\156
\154
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\137\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\022\060\020\006\003\125\004\012\023\011\104\151\147\151\116\157
\164\141\162\061\032\060\030\006\003\125\004\003\023\021\104\151
\147\151\116\157\164\141\162\040\122\157\157\164\040\103\101\061
\040\060\036\006\011\052\206\110\206\367\015\001\011\001\026\021
\151\156\146\157\100\144\151\147\151\156\157\164\141\162\056\156
\154
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\017\377\377\377\377\377\377\377\377\377\377\377\377\377
\377\377
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\212\060\202\003\162\240\003\002\001\002\002\020\017
\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\137
\061\013\060\011\006\003\125\004\006\023\002\116\114\061\022\060
\020\006\003\125\004\012\023\011\104\151\147\151\116\157\164\141
\162\061\032\060\030\006\003\125\004\003\023\021\104\151\147\151
\116\157\164\141\162\040\122\157\157\164\040\103\101\061\040\060
\036\006\011\052\206\110\206\367\015\001\011\001\026\021\151\156
\146\157\100\144\151\147\151\156\157\164\141\162\056\156\154\060
\036\027\015\060\067\060\067\062\067\061\067\061\071\063\067\132
\027\015\062\065\060\063\063\061\061\070\061\071\062\062\132\060
\137\061\013\060\011\006\003\125\004\006\023\002\116\114\061\022
\060\020\006\003\125\004\012\023\011\104\151\147\151\116\157\164
\141\162\061\032\060\030\006\003\125\004\003\023\021\104\151\147
\151\116\157\164\141\162\040\122\157\157\164\040\103\101\061\040
\060\036\006\011\052\206\110\206\367\015\001\011\001\026\021\151
\156\146\157\100\144\151\147\151\156\157\164\141\162\056\156\154
\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001
\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001
\000\254\260\130\301\000\275\330\041\010\013\053\232\376\156\126
\060\005\237\033\167\220\020\101\134\303\015\207\021\167\216\201
\361\312\174\351\214\152\355\070\164\065\273\332\337\371\273\300
\011\067\264\226\163\201\175\063\032\230\071\367\223\157\225\177
\075\271\261\165\207\272\121\110\350\213\160\076\225\004\305\330
\266\303\026\331\210\260\261\207\035\160\332\206\264\017\024\213
\172\317\020\321\164\066\242\022\173\167\206\112\171\346\173\337

\002\021\150\245\116\206\256\064\130\233\044\023\170\126\042\045
\036\001\213\113\121\161\373\202\314\131\226\151\210\132\150\123
\305\271\015\002\067\313\113\274\146\112\220\176\052\013\005\007
\355\026\137\125\220\165\330\106\311\033\203\342\010\276\361\043
\314\231\035\326\052\017\203\040\025\130\047\202\056\372\342\042
\302\111\261\271\001\201\152\235\155\235\100\167\150\166\116\041
\052\155\204\100\205\116\166\231\174\202\363\363\267\002\131\324
\046\001\033\216\337\255\123\006\321\256\030\335\342\262\072\313
\327\210\070\216\254\133\051\271\031\323\230\371\030\003\317\110
\202\206\146\013\033\151\017\311\353\070\210\172\046\032\005\114
\222\327\044\324\226\362\254\122\055\243\107\325\122\366\077\376
\316\204\006\160\246\252\076\242\362\266\126\064\030\127\242\344
\201\155\347\312\360\152\323\307\221\153\002\203\101\174\025\357
\153\232\144\136\343\320\074\345\261\353\173\135\206\373\313\346
\167\111\315\243\145\334\367\271\234\270\344\013\137\223\317\314
\060\032\062\034\316\034\143\225\245\371\352\341\164\213\236\351
\053\251\060\173\240\030\037\016\030\013\345\133\251\323\321\154
\036\007\147\217\221\113\251\212\274\322\146\252\223\001\210\262
\221\372\061\134\325\246\301\122\010\011\315\012\143\242\323\042
\246\350\241\331\071\006\227\365\156\215\002\220\214\024\173\077
\200\315\033\234\272\304\130\162\043\257\266\126\237\306\172\102
\063\051\007\077\202\311\346\037\005\015\315\114\050\066\213\323
\310\076\034\306\210\357\136\356\211\144\351\035\353\332\211\176
\062\246\151\321\335\314\210\237\321\320\311\146\041\334\006\147
\305\224\172\232\155\142\114\175\314\340\144\200\262\236\107\216
\243\002\003\001\000\001\243\102\060\100\060\017\006\003\125\035
\023\001\001\377\004\005\060\003\001\001\377\060\016\006\003\125
\035\017\001\001\377\004\004\003\002\001\006\060\035\006\003\125
\035\016\004\026\004\024\210\150\277\340\216\065\304\073\070\153
\142\367\050\073\204\201\310\014\327\115\060\015\006\011\052\206
\110\206\367\015\001\001\005\005\000\003\202\002\001\000\073\002
\215\313\074\060\350\156\240\255\362\163\263\137\236\045\023\004
\005\323\366\343\213\273\013\171\316\123\336\344\226\305\321\257
\163\274\325\303\320\100\125\174\100\177\315\033\137\011\325\362
\174\237\150\035\273\135\316\172\071\302\214\326\230\173\305\203
\125\250\325\175\100\312\340\036\367\211\136\143\135\241\023\302
\135\212\266\212\174\000\363\043\303\355\205\137\161\166\360\150
\143\252\105\041\071\110\141\170\066\334\361\103\223\324\045\307
\362\200\145\341\123\002\165\121\374\172\072\357\067\253\204\050
\127\014\330\324\324\231\126\154\343\242\376\131\204\264\061\350
\063\370\144\224\224\121\227\253\071\305\113\355\332\335\200\013
\157\174\051\015\304\216\212\162\015\347\123\024\262\140\101\075
\204\221\061\150\075\047\104\333\345\336\364\372\143\105\310\114
\076\230\365\077\101\272\116\313\067\015\272\146\230\361\335\313
\237\134\367\124\066\202\153\054\274\023\141\227\102\370\170\273
\314\310\242\237\312\360\150\275\153\035\262\337\215\157\007\235
\332\216\147\307\107\036\312\271\277\052\102\221\267\143\123\146
\361\102\243\341\364\132\115\130\153\265\344\244\063\255\134\160

\035\334\340\362\353\163\024\221\232\003\301\352\000\145\274\007
\374\317\022\021\042\054\256\240\275\072\340\242\052\330\131\351
\051\323\030\065\244\254\021\137\031\265\265\033\377\042\112\134
\306\172\344\027\357\040\251\247\364\077\255\212\247\232\004\045
\235\016\312\067\346\120\375\214\102\051\004\232\354\271\317\113
\162\275\342\010\066\257\043\057\142\345\312\001\323\160\333\174
\202\043\054\026\061\014\306\066\007\220\172\261\037\147\130\304
\073\130\131\211\260\214\214\120\263\330\206\313\150\243\304\012
\347\151\113\040\316\301\036\126\113\225\251\043\150\330\060\330
\303\353\260\125\121\315\345\375\053\270\365\273\021\237\123\124
\366\064\031\214\171\011\066\312\141\027\045\027\013\202\230\163
\014\167\164\303\325\015\307\250\022\114\307\247\124\161\107\056
\054\032\175\311\343\053\073\110\336\047\204\247\143\066\263\175
\217\240\144\071\044\015\075\173\207\257\146\134\164\033\113\163
\262\345\214\360\206\231\270\345\305\337\204\301\267\353
END

#
 Trust for Certificate "Explicitly Distrust DigiNotar Root CA"
# Issuer: E=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL
# Serial Number:0f:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff
# Subject:
 E=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL
# Not Valid Before: Fri Jul 27 17:19:37 2007
# Not Valid After : Mon Mar 31 18:19:22 2025
# Fingerprint (MD5): 0A:A4:D5:CC:BA:B4:FB:A3:59:E3:E6:01:DD:53:D9:4E
# Fingerprint (SHA1): C1:77:CB:4B:E0:B4:26:8E:F5:C7:CF:45:99:22:B9:B0:CE:BA:21:2F
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Explicitly Distrust DigiNotar Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\301\167\313\113\340\264\046\216\365\307\317\105\231\042\271\260
\316\272\041\057
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\012\244\325\314\272\264\373\243\131\343\346\001\335\123\331\116
END
CKA_ISSUER MULTILINE_OCTAL
\060\137\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\022\060\020\006\003\125\004\012\023\011\104\151\147\151\116\157
\164\141\162\061\032\060\030\006\003\125\004\003\023\021\104\151
\147\151\116\157\164\141\162\040\122\157\157\164\040\103\101\061
\040\060\036\006\011\052\206\110\206\367\015\001\011\001\026\021
\151\156\146\157\100\144\151\147\151\156\157\164\141\162\056\156
\154
END

```
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\017\377\377\377\377\377\377\377\377\377\377\377\377\377
\377\377
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Security Communication RootCA2"
#
# Issuer: OU=Security Communication RootCA2,O="SECOM Trust Systems CO.,LTD.",C=JP
# Serial Number: 0 (0x0)
# Subject: OU=Security Communication RootCA2,O="SECOM Trust Systems CO.,LTD.",C=JP
# Not Valid Before: Fri May 29 05:00:39 2009
# Not Valid After : Tue May 29 05:00:39 2029
# Fingerprint (SHA-256):
51:3B:2C:EC:B8:10:D4:CD:E5:DD:85:39:1A:DF:C6:C2:DD:60:D8:7B:B7:36:D2:B5:21:48:4A:A4:7A:0E:BE:F6
# Fingerprint (SHA1): 5F:3B:8C:F2:F8:10:B3:7D:78:B4:CE:EC:19:19:C3:73:34:B9:C7:74
CKA_CLASS CK_OBJECT_CLASS
 CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Security Communication RootCA2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\135\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\045\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040
\124\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117
\056\054\114\124\104\056\061\047\060\045\006\003\125\004\013\023
\036\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156
\151\143\141\164\151\157\156\040\122\157\157\164\103\101\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\135\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\045\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040
\124\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117
\056\054\114\124\104\056\061\047\060\045\006\003\125\004\013\023
\036\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156
\151\143\141\164\151\157\156\040\122\157\157\164\103\101\062
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\001\000
```

END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\167\060\202\002\137\240\003\002\001\002\002\001\000
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\135\061\013\060\011\006\003\125\004\006\023\002\112\120\061\045
\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040\124
\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117\056
\054\114\124\104\056\061\047\060\045\006\003\125\004\013\023\036
\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156\151
\143\141\164\151\157\156\040\122\157\157\164\103\101\062\060\036
\027\015\060\071\060\065\062\071\060\065\060\060\063\071\132\027
\015\062\071\060\065\062\071\060\065\060\060\063\071\132\060\135
\061\013\060\011\006\003\125\004\006\023\002\112\120\061\045\060
\043\006\003\125\004\012\023\034\123\105\103\117\115\040\124\162
\165\163\164\040\123\171\163\164\145\155\163\040\103\117\056\054
\114\124\104\056\061\047\060\045\006\003\125\004\013\023\036\123
\145\143\165\162\151\164\171\040\103\157\155\155\165\156\151\143
\141\164\151\157\156\040\122\157\157\164\103\101\062\060\202\001
\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000
\003\202\001\017\000\060\202\001\012\002\202\001\001\000\320\025
\071\122\261\122\263\272\305\131\202\304\135\122\256\072\103\145
\200\113\307\362\226\274\333\066\227\326\246\144\214\250\136\360
\343\012\034\367\337\227\075\113\256\366\135\354\041\265\101\253
\315\271\176\166\237\276\371\076\066\064\240\073\301\366\061\021
\105\164\223\075\127\200\305\371\211\231\312\345\253\152\324\265
\332\101\220\020\301\326\326\102\211\302\277\364\070\022\225\114
\124\005\367\066\344\105\203\173\024\145\326\334\014\115\321\336
\176\014\253\073\304\025\276\072\126\246\132\157\166\151\122\251
\172\271\310\353\152\232\135\122\320\055\012\153\065\026\011\020
\204\320\152\312\072\006\000\067\107\344\176\127\117\077\213\353
\147\270\210\252\305\276\123\125\262\221\304\175\271\260\205\031
\006\170\056\333\141\032\372\205\365\112\221\241\347\026\325\216
\242\071\337\224\270\160\037\050\077\213\374\100\136\143\203\074
\203\052\032\231\153\317\336\131\152\073\374\157\026\327\037\375
\112\020\353\116\202\026\072\254\047\014\123\361\255\325\044\260
\153\003\120\301\055\074\026\335\104\064\047\032\165\373\002\003
\001\000\001\243\102\060\100\060\035\006\003\125\035\016\004\026
\004\024\012\205\251\167\145\005\230\174\100\201\370\017\227\054
\070\361\012\354\074\317\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\006\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\001\001\377\060\015\006\011\052\206\110\206\367
\015\001\001\013\005\000\003\202\001\001\000\114\072\243\104\254
\271\105\261\307\223\176\310\013\012\102\337\144\352\034\356\131
\154\010\272\211\137\152\312\112\225\236\172\217\007\305\332\105
\162\202\161\016\072\322\314\157\247\264\241\043\273\366\044\237
\313\027\376\214\246\316\302\322\333\314\215\374\161\374\003\051
\301\154\135\063\137\144\266\145\073\211\157\030\166\170\365\334
\242\110\037\031\077\216\223\353\361\372\027\356\315\116\343\004

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\022\125\326\345\344\335\373\076\005\174\342\035\136\306\247\274
\227\117\150\072\365\351\056\012\103\266\257\127\134\142\150\174
\267\375\243\212\204\240\254\142\276\053\011\207\064\360\152\001
\273\233\051\126\074\376\000\067\317\043\154\361\116\252\266\164
\106\022\154\221\356\064\325\354\232\221\347\104\276\220\061\162
\325\111\002\366\002\345\364\037\353\174\331\226\125\251\377\354
\212\371\231\107\377\065\132\002\252\004\313\212\133\207\161\051
\221\275\244\264\172\015\275\232\365\127\043\000\007\041\027\077
\112\071\321\005\111\013\247\266\067\201\245\135\214\252\063\136
\201\050\174\247\175\047\353\000\256\215\067
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Security Communication RootCA2"
# Issuer: OU=Security Communication RootCA2,O="SECOM
 Trust Systems CO.,LTD.",C=JP
# Serial Number: 0 (0x0)
# Subject: OU=Security Communication RootCA2,O="SECOM Trust Systems CO.,LTD.",C=JP
# Not Valid Before: Fri May 29 05:00:39 2009
# Not Valid After : Tue May 29 05:00:39 2029
# Fingerprint (SHA-256):
51:3B:2C:EC:B8:10:D4:CD:E5:DD:85:39:1A:DF:C6:C2:DD:60:D8:7B:B7:36:D2:B5:21:48:4A:A4:7A:0E:BE:F6
# Fingerprint (SHA1): 5F:3B:8C:F2:F8:10:B3:7D:78:B4:CE:EC:19:19:C3:73:34:B9:C7:74
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Security Communication RootCA2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\137\073\214\362\370\020\263\175\170\264\316\354\031\031\303\163
\064\271\307\164
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\154\071\175\244\016\125\131\262\077\326\101\261\022\120\336\103
END
CKA_ISSUER MULTILINE_OCTAL
\060\135\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\045\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040
\124\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117
\056\054\114\124\104\056\061\047\060\045\006\003\125\004\013\023
\036\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156
\151\143\141\164\151\157\156\040\122\157\157\164\103\101\062
END
CKA_SERIAL_NUMBER
```

```
 MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Actalis Authentication Root CA"
#
# Issuer: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=Milan,C=IT
# Serial Number:57:0a:11:97:42:c4:e3:cc
# Subject: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=Milan,C=IT
# Not Valid Before: Thu Sep 22 11:22:02 2011
# Not Valid After : Sun Sep 22 11:22:02 2030
# Fingerprint (SHA-256):
55:92:60:84:EC:96:3A:64:B9:6E:2A:BE:01:CE:0B:A8:6A:64:FB:FE:BC:C7:AA:B5:AF:C1:55:B3:7F:D7:60:66
#
 Fingerprint (SHA1): F3:73:B3:87:06:5A:28:84:8A:F2:F3:4A:CE:19:2B:DD:C7:8E:9C:AC
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Actalis Authentication Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\153\061\013\060\011\006\003\125\004\006\023\002\111\124\061
\016\060\014\006\003\125\004\007\014\005\115\151\154\141\156\061
\043\060\041\006\003\125\004\012\014\032\101\143\164\141\154\151
\163\040\123\056\160\056\101\056\057\060\063\063\065\070\065\062
\060\071\066\067\061\047\060\045\006\003\125\004\003\014\036\101
\143\164\141\154\151\163\040\101\165\164\150\145\156\164\151\143
\141\164\151\157\156\040\122\157\157\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\153\061\013\060\011\006\003\125\004\006\023\002\111\124\061
\016\060\014\006\003\125\004\007\014\005\115\151\154\141\156\061
\043\060\041\006\003\125\004\012\014\032\101\143\164\141\154\151
\163\040\123\056\160\056\101\056\057\060\063\063\065\070\065\062
\060\071\066\067\061\047\060\045\006\003\125\004\003\014\036\101
\143\164\141\154\151\163\040\101\165\164\150\145\156\164\151\143
\141\164\151\157\156\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\010\127\012\021\227\102\304\343\314
```

END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\273\060\202\003\243\240\003\002\001\002\002\010\127
\012\021\227\102\304\343\314\060\015\006\011\052\206\110\206\367
\015\001\001\013\005\000\060\153\061\013\060\011\006\003\125\004
\006\023\002\111\124\061\016\060\014\006\003\125\004\007\014\005
\115\151\154\141\156\061\043\060\041\006\003\125\004\012\014\032
\101\143\164\141\154\151\163\040\123\056\160\056\101\056\057\060
\063\063\065\070\065\062\060\071\066\067\061\047\060\045\006\003
\125\004\003\014\036\101\143\164\141\154\151\163\040\101\165\164
\150\145\156\164\151\143\141\164\151\157\156\040\122\157\157\164
\040\103\101\060\036\027\015\061\061\060\071\062\062\061\061\062
\062\060\062\132\027\015\063\060\060\071\062\062\061\061\062\062
\060\062\132\060\153\061\013\060\011\006\003\125\004\006\023\002
\111\124\061\016\060\014\006\003\125\004\007\014\005\115\151\154
\141\156\061\043\060\041\006\003\125\004\012\014\032\101\143\164
\141\154\151\163\040\123\056\160\056\101\056\057\060\063\063\065
\070\065\062\060\071\066\067\061\047\060\045\006\003\125\004\003
\014\036\101\143\164\141\154\151\163\040\101\165\164\150\145\156
\164\151\143\141\164\151\157\156\040\122\157\157\164\040\103\101
\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001
\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001
\000\247\306\304\245\051\244\054\357\345\030\305\260\120\243\157
\121\073\237\012\132\311\302\110\070\012\302\034\240\030\177\221
\265\207\271\100\077\335\035\150\037\010\203\325\055\036\210\240
\370\217\126\217\155\231\002\222\220\026\325\137\010\154\211\327
\341\254\274\040\302\261\340\203\121\212\151\115\000\226\132\157
\057\300\104\176\243\016\344\221\315\130\356\334\373\307\036\105
\107\335\047\271\010\001\237\246\041\035\365\101\055\057\114\375
\050\255\340\212\255\042\264\126\145\216\206\124\217\223\103\051
\336\071\106\170\243\060\043\272\315\360\175\023\127\300\135\322
\203\153\110\114\304\253\237\200\132\133\072\275\311\247\042\077
\200\047\063\133\016\267\212\014\135\007\067\010\313\154\322\172
\107\042\104\065\305\314\314\056\216\335\052\355\267\175\146\015
\137\141\121\042\125\033\343\106\343\343\075\320\065\142\232\333
\257\024\310\133\241\314\211\033\341\060\046\374\240\233\037\201
\247\107\037\004\353\243\071\222\006\237\231\323\277\323\352\117
\120\234\031\376\226\207\036\074\145\366\243\030\044\203\206\020
\347\124\076\250\072\166\044\117\201\041\305\343\017\002\370\223
\224\107\040\273\376\324\016\323\150\271\335\304\172\204\202\343
\123\124\171\335\333\234\322\362\007\233\056\266\274\076\355\205
\155\357\045\021\362\227\032\102\141\367\112\227\350\213\261\020
\007\372\145\201\262\242\071\317\367\074\377\030\373\306\361\132
\213\131\342\002\254\173\222\320\116\024\117\131\105\366\014\136
\050\137\260\350\077\105\317\317\257\233\157\373\204\323\167\132
\225\157\254\224\204\236\356\274\300\112\217\112\223\370\104\041
\342\061\105\141\120\116\020\330\343\065\174\114\031\264\336\005
\277\243\006\237\310\265\315\344\037\327\027\006\015\172\225\164

\125\015\150\032\374\020\033\142\144\235\155\340\225\240\303\224
\007\127\015\024\346\275\005\373\270\237\346\337\213\342\306\347
\176\226\366\123\305\200\064\120\050\130\360\022\120\161\027\060
\272\346\170\143\274\364\262\255\233\053\262\376\341\071\214\136
\272\013\040\224\336\173\203\270\377\343\126\215\267\021\351\073
\214\362\261\301\135\235\244\013\114\053\331\262\030\365\265\237
\113\002\003\001\000\001\243\143\060\141\060\035\006\003\125\035
\016\004\026\004\024\122\330\210\072\310\237\170\146\355\211\363
\173\070\160\224\311\002\002\066\320\060\017\006\003\125\035\023
\001\001\377\004\005\060\003\001\001\377\060\037\006\003\125\035
\043\004\030\060\026\200\024\122\330\210\072\310\237\170\146\355
\211\363\173\070\160\224\311\002\002\066\320\060\016\006\003\125
\035\017\001\001\377\004\004\003\002\001\006\060\015\006\011\052
\206\110\206\367\015\001\001\013\005\000\003\202\002\001\000\013
\173\162\207\300\140\246\111\114\210\130\346\035\210\367\024\144
\110\246\330\130\012\016\117\023\065\337\065\035\324\355\006\061
\310\201\076\152\325\335\073\032\062\356\220\075\021\322\056\364
\216\303\143\056\043\146\260\147\276\157\266\300\023\071\140\252
\242\064\045\223\165\122\336\247\235\255\016\207\211\122\161\152
\026\074\031\035\203\370\232\051\145\276\364\077\232\331\360\363
\132\207\041\161\200\115\313\340\070\233\077\273\372\340\060\115
\317\206\323\145\020\031\030\321\227\002\261\053\162\102\150\254
\240\275\116\132\332\030\277\153\230\201\320\375\232\276\136\025
\110\315\021\025\271\300\051\134\264\350\210\367\076\066\256\267
\142\375\036\142\336\160\170\020\034\110\133\332\274\244\070\272
\147\355\125\076\136\127\337\324\003\100\114\201\244\322\117\143
\247\011\102\011\024\374\000\251\302\200\163\117\056\300\100\331
\021\173\110\352\172\002\300\323\353\050\001\046\130\164\301\300
\163\042\155\223\225\375\071\175\273\052\343\366\202\343\054\227
\137\116\037\221\224\372\376\054\243\330\166\032\270\115\262\070
\117\233\372\035\110\140\171\046\342\363\375\251\320\232\350\160
\217\111\172\326\345\275\012\016\333\055\363\215\277\353\343\244
\175\313\307\225\161\350\332\243\174\305\302\370\164\222\004\033
\206\254\244\042\123\100\266\254\376\114\166\317\373\224\062\300
\065\237\166\077\156\345\220\156\240\246\046\242\270\054\276\321
\053\205\375\247\150\310\272\001\053\261\154\164\035\270\163\225
\347\356\267\307\045\360\000\114\000\262\176\266\013\213\034\363
\300\120\236\045\271\340\010\336\066\146\377\067\245\321\273\124
\144\054\311\047\265\113\222\176\145\377\323\055\341\271\116\274
\177\244\101\041\220\101\167\246\071\037\352\236\343\237\320\146
\157\005\354\252\166\176\277\153\026\240\353\265\307\374\222\124
\057\053\021\047\045\067\170\114\121\152\260\363\314\130\135\024
\361\152\110\025\377\302\007\266\261\215\017\216\134\120\106\263
\075\277\001\230\117\262\131\124\107\076\064\173\170\155\126\223
\056\163\352\146\050\170\315\035\024\277\240\217\057\056\270\056
\216\362\024\212\314\351\265\174\373\154\235\014\245\341\226
END
CKA_NSS_MOZILLA_CA_POLICY

```
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Actalis Authentication Root CA"
# Issuer: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=Milan,C=IT
# Serial Number:57:0a:11:97:42:c4:e3:cc
# Subject: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=Milan,C=IT
# Not Valid Before: Thu Sep 22 11:22:02 2011
# Not Valid After : Sun Sep 22 11:22:02 2030
# Fingerprint (SHA-256):
55:92:60:84:EC:96:3A:64:B9:6E:2A:BE:01:CE:0B:A8:6A:64:FB:FE:BC:C7:AA:B5:AF:C1:55:B3:7F:D7:60:66
# Fingerprint (SHA1):
 F3:73:B3:87:06:5A:28:84:8A:F2:F3:4A:CE:19:2B:DD:C7:8E:9C:AC
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Actalis Authentication Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\363\163\263\207\006\132\050\204\212\362\363\112\316\031\053\335
\307\216\234\254
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\151\301\015\117\007\243\033\303\376\126\075\004\274\021\366\246
END
CKA_ISSUER MULTILINE_OCTAL
\060\153\061\013\060\011\006\003\125\004\006\023\002\111\124\061
\016\060\014\006\003\125\004\007\014\005\115\151\154\141\156\061
\043\060\041\006\003\125\004\012\014\032\101\143\164\141\154\151
\163\040\123\056\160\056\101\056\057\060\063\063\065\070\065\062
\060\071\066\067\061\047\060\045\006\003\125\004\003\014\036\101
\143\164\141\154\151\163\040\101\165\164\150\145\156\164\151\143
\141\164\151\157\156\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\127\012\021\227\102\304\343\314
END
CKA_TRUST_SERVER_AUTH
 CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Buypass Class 2 Root CA"
#
# Issuer: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
```

```
# Serial Number: 2 (0x2)
# Subject: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
# Not Valid Before: Tue Oct 26 08:38:03 2010
# Not Valid After : Fri Oct 26 08:38:03 2040
# Fingerprint (SHA-256):
9A:11:40:25:19:7C:5B:B9:5D:94:E6:3D:55:CD:43:79:08:47:B6:46:B2:3C:DF:11:AD:A4:A0:0E:FF:15:FB:48
# Fingerprint (SHA1): 49:0A:75:74:DE:87:0A:47:FE:58:EE:F6:C7:6B:EB:C6:0B:12:40:99
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Buypass Class 2 Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061
\035\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163
\163\040\101\123\055\071\070\063\061\066\063\063\062\067\061\040
\060\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163
\040\103\154\141\163\163\040\062\040\122\157\157\164\040\103\101
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061
\035\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163
\163\040\101\123\055\071\070\063\061\066\063\063\062\067\061\040
\060\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163
\040\103\154\141\163\163\040\062\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\002
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\131\060\202\003\101\240\003\002\001\002\002\001\002
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061\035
\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163\163
\040\101\123\055\071\070\063\061\066\063\063\062\067\061\040\060
\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163\040
\103\154\141\163\163\040\062\040\122\157\157\164\040\103\101\060
\036\027\015\061\060\061\060\062\066\060\070\063\070\060\063\132
\027\015\064\060\061\060\062\066\060\070\063\070\060\063\132\060
\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061\035
\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163\163
\040\101\123\055\071\070\063\061\066\063\063\062\067\061\040\060
\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163\040
\103\154\141\163\163\040\062\040\122\157\157\164\040\103\101\060
\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001
```

\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001\000
\327\307\136\367\301\007\324\167\373\103\041\364\364\365\151\344
\356\062\001\333\243\206\037\344\131\015\272\347\165\203\122\353
\352\034\141\025\110\273\035\007\312\214\256\260\334\226\235\352
\303\140\222\206\202\050\163\234\126\006\377\113\144\360\014\052
\067\111\265\345\317\014\174\356\361\112\273\163\060\145\363\325
\057\203\266\176\343\347\365\236\253\140\371\323\361\235\222\164
\212\344\034\226\254\133\200\351\265\364\061\207\243\121\374\307
\176\241\157\216\123\167\324\227\301\125\063\222\076\030\057\165
\324\255\206\111\313\225\257\124\006\154\330\006\023\215\133\377
\341\046\031\131\300\044\272\201\161\171\220\104\120\150\044\224
\137\270\263\021\361\051\101\141\243\101\313\043\066\325\301\361
\062\120\020\116\177\364\206\223\354\204\323\216\274\113\277\134
\001\116\007\075\334\024\212\224\012\244\352\163\373\013\121\350
\023\007\030\372\016\361\053\321\124\025\175\074\341\367\264\031
\102\147\142\136\167\340\242\125\354\266\331\151\027\325\072\257
\104\355\112\305\236\344\172\047\174\345\165\327\252\313\045\347
\337\153\012\333\017\115\223\116\250\240\315\173\056\362\131\001
\152\267\015\270\007\201\176\213\070\033\070\346\012\127\231\075
\356\041\350\243\365\014\026\335\213\354\064\216\234\052\034\000
\025\027\215\150\203\322\160\237\030\010\315\021\150\325\311\153
\122\315\304\106\217\334\265\363\330\127\163\036\351\224\071\004
\277\323\336\070\336\264\123\354\151\034\242\176\304\217\344\033
\160\255\362\242\371\373\367\026\144\146\151\237\111\121\242\342
\025\030\147\006\112\177\325\154\265\115\263\063\340\141\353\135
\276\351\230\017\062\327\035\113\074\056\132\001\122\221\011\362
\337\352\215\330\006\100\143\252\021\344\376\303\067\236\024\122
\077\364\342\314\362\141\223\321\375\147\153\327\122\256\277\150
\253\100\103\240\127\065\123\170\360\123\370\141\102\007\144\306
\327\157\233\114\070\015\143\254\142\257\066\213\242\163\012\015
\365\041\275\164\252\115\352\162\003\111\333\307\137\035\142\143
\307\375\335\221\354\063\356\365\155\264\156\060\150\336\310\326
\046\260\165\136\173\264\007\040\230\241\166\062\270\115\154\117
\002\003\001\000\001\243\102\060\100\060\017\006\003\125\035\023
\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125\035
\016\004\026\004\024\311\200\167\340\142\222\202\365\106\234\363
\272\367\114\303\336\270\243\255\071\060\016\006\003\125\035\017
\001\001\377\004\004\003\002\001\006\060\015\006\011\052\206\110
\206\367\015\001\001\013\005\000\003\202\002\001\000\123\137\041
\365\272\260\072\122\071\054\222\260\154\000\311\357\316\040\357
\006\362\226\236\351\244\164\177\172\026\374\267\365\266\373\025
\033\077\253\246\300\162\135\020\261\161\356\274\117\343\255\254
\003\155\056\161\056\257\304\343\255\243\275\014\021\247\264\377
\112\262\173\020\020\037\247\127\101\262\300\256\364\054\131\326
\107\020\210\363\041\121\051\060\312\140\206\257\106\253\035\355
\072\133\260\224\336\104\343\101\010\242\301\354\035\326\375\117
\266\326\107\320\024\013\312\346\312\265\173\167\176\101\037\136
\203\307\266\214\071\226\260\077\226\201\101\157\140\220\342\350

\371\373\042\161\331\175\263\075\106\277\264\204\257\220\034\017
\217\022\152\257\357\356\036\172\256\002\112\212\027\053\166\376
\254\124\211\044\054\117\077\266\262\247\116\214\250\221\227\373
\051\306\173\134\055\271\313\146\266\267\250\133\022\121\205\265
\011\176\142\170\160\376\251\152\140\266\035\016\171\014\375\312
\352\044\200\162\303\227\077\362\167\253\103\042\012\307\353\266
\014\204\202\054\200\153\101\212\010\300\353\245\153\337\231\022
\313\212\325\136\200\014\221\340\046\010\066\110\305\372\070\021
\065\377\045\203\055\362\172\277\332\375\216\376\245\313\105\054
\037\304\210\123\256\167\016\331\232\166\305\216\054\035\243\272
\325\354\062\256\300\252\254\367\321\172\115\353\324\007\342\110
\367\042\216\260\244\237\152\316\216\262\262\140\364\243\042\320
\043\353\224\132\172\151\335\017\277\100\127\254\153\131\120\331
\243\231\341\156\376\215\001\171\047\043\025\336\222\235\173\011
\115\132\347\113\110\060\132\030\346\012\155\346\217\340\322\273
\346\337\174\156\041\202\301\150\071\115\264\230\130\146\142\314
\112\220\136\303\372\047\004\261\171\025\164\231\314\276\255\040
\336\046\140\034\353\126\121\246\243\352\344\243\077\247\377\141
\334\361\132\115\154\062\043\103\356\254\250\356\356\112\022\011
\074\135\161\302\276\171\372\302\207\150\035\013\375\134\151\314
\006\320\232\175\124\231\052\311\071\032\031\257\113\052\103\363
\143\135\132\130\342\057\343\035\344\251\326\320\012\320\236\277
\327\201\011\361\311\307\046\015\254\230\026\126\240
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Buypass Class 2 Root CA"
Issuer: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
Serial Number: 2 (0x2)
Subject: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
Not Valid Before: Tue Oct 26 08:38:03 2010
Not Valid After : Fri Oct 26 08:38:03 2040
Fingerprint (SHA-256):
9A:11:40:25:19:7C:5B:B9:5D:94:E6:3D:55:CD:43:79:08:47:B6:46:B2:3C:DF:11:AD:A4:A0:0E:FF:15:FB:48
Fingerprint (SHA1): 49:0A:75:74:DE:87:0A:47:FE:58:EE:F6:C7:6B:EB:C6:0B:12:40:99
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN
 CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Buypass Class 2 Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\111\012\165\164\336\207\012\107\376\130\356\366\307\153\353\306
\013\022\100\231
END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\106\247\322\376\105\373\144\132\250\131\220\233\170\104\233\051
END
CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061
\035\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163
\163\040\101\123\055\071\070\063\061\066\063\063\062\067\061\040
\060\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163
\040\103\154\141\163\163\040\062\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\002
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate
 "Buypass Class 3 Root CA"
#
# Issuer: CN=Buypass Class 3 Root CA,O=Buypass AS-983163327,C=NO
# Serial Number: 2 (0x2)
# Subject: CN=Buypass Class 3 Root CA,O=Buypass AS-983163327,C=NO
# Not Valid Before: Tue Oct 26 08:28:58 2010
# Not Valid After : Fri Oct 26 08:28:58 2040
# Fingerprint (SHA-256):
ED:F7:EB:BC:A2:7A:2A:38:4D:38:7B:7D:40:10:C6:66:E2:ED:B4:84:3E:4C:29:B4:AE:1D:5B:93:32:E6:B2:4D
# Fingerprint (SHA1): DA:FA:F7:FA:66:84:EC:06:8F:14:50:BD:C7:C2:81:A5:BC:A9:64:57
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Buypass Class 3 Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061
\035\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163
\163\040\101\123\055\071\070\063\061\066\063\063\062\067\061\040
\060\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163
\040\103\154\141\163\163\040\063\040\122\157\157\164\040\103\101
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061
\035\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163
```

\163\040\101\123\055\071\070\063\061\066\063\063\062\067\061\040
\060\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163
\040\103\154\141\163\163\040\063\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\002
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\131\060\202\003\101\240\003\002\001\002\002\001\002
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061\035
\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163\163
\040\101\123\055\071\070\063\061\066\063\063\062\067\061\040\060
\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163\040
\103\154\141\163\163\040\063\040\122\157\157\164\040\103\101\060
\036\027\015\061\060\061\060\062\066\060\070\062\070\065\070\132
\027\015\064\060\061\060\062\066\060\070\062\070\065\070\132\060
\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061\035
\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163\163
\040\101\123\055\071\070\063\061\066\063\063\062\067\061\040\060
\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163\040
\103\154\141\163\163\040\063\040\122\157\157\164\040\103\101\060
\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001
\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001\000
\245\332\012\225\026\120\343\225\362\136\235\166\061\006\062\172
\233\361\020\166\270\000\232\265\122\066\315\044\107\260\237\030
\144\274\232\366\372\325\171\330\220\142\114\042\057\336\070\075
\326\340\250\351\034\054\333\170\021\351\216\150\121\025\162\307
\363\063\207\344\240\135\013\134\340\127\007\052\060\365\315\304
\067\167\050\115\030\221\346\277\325\122\375\161\055\160\076\347
\306\304\212\343\360\050\013\364\166\230\241\213\207\125\262\072
\023\374\267\076\047\067\216\042\343\250\117\052\357\140\273\075
\267\071\303\016\001\107\231\135\022\117\333\103\372\127\241\355
\371\235\276\021\107\046\133\023\230\253\135\026\212\260\067\034
\127\235\105\377\210\226\066\277\273\312\007\173\157\207\143\327
\320\062\152\326\135\154\014\361\263\156\071\342\153\061\056\071
\000\047\024\336\070\300\354\031\146\206\022\350\235\162\026\023
\144\122\307\251\067\034\375\202\060\355\204\030\035\364\256\134
\377\160\023\000\353\261\365\063\172\113\326\125\370\005\215\113
\151\260\365\263\050\066\134\024\304\121\163\115\153\013\361\064
\007\333\027\071\327\334\050\173\153\365\237\363\056\301\117\027
\052\020\363\314\312\350\353\375\153\253\056\232\237\055\202\156
\004\324\122\001\223\055\075\206\374\176\374\337\357\102\035\246
\153\357\271\040\306\367\275\240\247\225\375\247\346\211\044\330
\314\214\064\154\342\043\057\331\022\032\041\271\125\221\157\013
\221\171\031\014\255\100\210\013\160\342\172\322\016\330\150\110
\273\202\023\071\020\130\351\330\052\007\306\022\333\130\333\322
\073\125\020\107\005\025\147\142\176\030\143\246\106\077\011\016

\124\062\136\277\015\142\172\047\357\200\350\333\331\113\006\132
\067\132\045\320\010\022\167\324\157\011\120\227\075\310\035\303
\337\214\105\060\126\306\323\144\253\146\363\300\136\226\234\303
\304\357\303\174\153\213\072\171\177\263\111\317\075\342\211\237
\240\060\113\205\271\234\224\044\171\217\175\153\251\105\150\017
\053\320\361\332\034\313\151\270\312\111\142\155\310\320\143\142
\335\140\017\130\252\217\241\274\005\245\146\242\317\033\166\262
\204\144\261\114\071\122\300\060\272\360\214\113\002\260\266\267
\002\003\001\000\001\243\102\060\100\060\017\006\003\125\035\023
\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125\035
\016\004\026\004\024\107\270\315\377\345\157\356\370\262\354\057
\116\016\371\045\260\216\074\153\303\060\016\006\003\125\035\017
\001\001\377\004\004\003\002\001\006\060\015\006\011\052\206\110
\206\367\015\001\001\013\005\000\003\202\002\001\000\000\040\043
\101\065\004\220\302\100\142\140\357\342\065\114\327\077\254\342
\064\220\270\241\157\166\372\026\026\244\110\067\054\351\220\302
\362\074\370\012\237\330\201\345\273\133\332\045\054\244\247\125
\161\044\062\366\310\013\362\274\152\370\223\254\262\007\302\137
\237\333\314\310\212\252\276\152\157\341\111\020\314\061\327\200
\273\273\310\330\242\016\144\127\352\242\365\302\251\061\025\322
\040\152\354\374\042\001\050\317\206\270\200\036\251\314\021\245
\074\362\026\263\107\235\374\322\200\041\304\313\320\107\160\101
\241\312\203\031\010\054\155\362\135\167\234\212\024\023\324\066
\034\222\360\345\006\067\334\246\346\220\233\070\217\134\153\033
\106\206\103\102\137\076\001\007\123\124\135\145\175\367\212\163
\241\232\124\132\037\051\103\024\047\302\205\017\265\210\173\032
\073\224\267\035\140\247\265\234\347\051\151\127\132\233\223\172
\103\060\033\003\327\142\310\100\246\252\374\144\344\112\327\221
\123\001\250\040\210\156\234\137\104\271\313\140\201\064\354\157
\323\175\332\110\137\353\264\220\274\055\251\034\013\254\034\325
\242\150\040\200\004\326\374\261\217\057\273\112\061\015\112\206
\034\353\342\066\051\046\365\332\330\304\362\165\141\317\176\256
\166\143\112\172\100\145\223\207\370\036\200\214\206\345\206\326
\217\016\374\123\054\140\350\026\141\032\242\076\103\173\315\071
\140\124\152\365\362\211\046\001\150\203\110\242\063\350\311\004
\221\262\021\064\021\076\352\320\103\031\037\003\223\220\014\377
\121\075\127\364\101\156\341\313\240\276\353\311\143\315\155\314
\344\370\066\252\150\235\355\275\135\227\160\104\015\266\016\065
\334\341\014\135\273\240\121\224\313\176\026\353\021\057\243\222
\105\310\114\161\331\274\311\231\122\127\106\057\120\317\275\065
\151\364\075\025\316\006\245\054\017\076\366\201\272\224\273\303
\273\277\145\170\322\206\171\377\111\073\032\203\014\360\336\170
\354\310\362\115\114\032\336\202\051\370\301\132\332\355\356\346
\047\136\350\105\320\235\034\121\250\150\253\104\343\320\213\152
\343\370\073\273\334\115\327\144\362\121\276\346\252\253\132\351
\061\356\006\274\163\277\023\142\012\237\307\271\227
END
CKA_NSS_MOZILLA_CA_POLICY

```
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Buypass Class 3 Root CA"
# Issuer: CN=Buypass Class 3 Root CA,O=Buypass AS-983163327,C=NO
# Serial Number: 2 (0x2)
# Subject: CN=Buypass Class 3 Root CA,O=Buypass AS-983163327,C=NO
# Not Valid Before: Tue Oct 26 08:28:58 2010
# Not Valid After : Fri Oct 26 08:28:58 2040
# Fingerprint (SHA-256):
ED:F7:EB:BC:A2:7A:2A:38:4D:38:7B:7D:40:10:C6:66:E2:ED:B4:84:3E:4C:29:B4:AE:1D:5B:93:32:E6:B2:4D
# Fingerprint (SHA1): DA:FA:F7:FA:66:84:EC:06:8F:14:50:BD:C7:C2:81:A5:BC:A9:64:57
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Buypass Class 3 Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\332\372\367\372\146\204\354\006\217\024\120\275\307\302\201\245
\274\251\144\127
END
CKA_CERT_MD5_HASH
 MULTILINE_OCTAL
\075\073\030\236\054\144\132\350\325\210\316\016\371\067\302\354
END
CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061
\035\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163
\163\040\101\123\055\071\070\063\061\066\063\063\062\067\061\040
\060\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163
\040\103\154\141\163\163\040\063\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\002
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "T-TeleSec GlobalRoot Class 3"
#
# Issuer: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services
GmbH,C=DE
# Serial Number: 1 (0x1)
# Subject: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems
```

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 Enterprise Services GmbH,C=DE
# Not Valid Before: Wed Oct 01 10:29:56 2008
# Not Valid After : Sat Oct 01 23:59:59 2033
# Fingerprint (SHA-256):
FD:73:DA:D3:1C:64:4F:F1:B4:3B:EF:0C:CD:DA:96:71:0B:9C:D9:87:5E:CA:7E:31:70:7A:F3:E9:6D:52:2B:BD
# Fingerprint (SHA1): 55:A6:72:3E:CB:F2:EC:CD:C3:23:74:70:19:9D:2A:BE:11:E3:81:D1
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "T-TeleSec GlobalRoot Class 3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\053\060\051\006\003\125\004\012\014\042\124\055\123\171\163
\164\145\155\163\040\105\156\164\145\162\160\162\151\163\145\040
\123\145\162\166\151\143\145\163\040\107\155\142\110\061\037\060
\035\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155
\163\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045
\060\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123
\145\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154
\141\163\163\040\063
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\053\060\051\006\003\125\004\012\014\042\124\055\123\171\163
\164\145\155\163\040\105\156\164\145\162\160\162\151\163\145\040
\123\145\162\166\151\143\145\163\040\107\155\142\110\061\037\060
\035\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155
\163\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045
\060\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123
\145\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154
\141\163\163\040\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\303\060\202\002\253\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\201\202\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\053\060\051\006\003\125\004\012\014\042\124\055\123\171\163\164
\145\155\163\040\105\156\164\145\162\160\162\151\163\145\040\123
\145\162\166\151\143\145\163\040\107\155\142\110\061\037\060\035
\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155\163
\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045\060
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\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123\145
\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154\141
\163\163\040\063\060\036\027\015\060\070\061\060\060\061\061\060
\062\071\065\066\132\027\015\063\063\061\060\060\061\062\063\065
\071\065\071\132\060\201\202\061\013\060\011\006\003\125\004\006
\023\002\104\105\061\053\060\051\006\003\125\004\012\014\042\124
\055\123\171\163\164\145\155\163\040\105\156\164\145\162\160\162
\151\163\145\040\123\145\162\166\151\143\145\163\040\107\155\142
\110\061\037\060\035\006\003\125\004\013\014\026\124\055\123\171
\163\164\145\155\163\040\124\162\165\163\164\040\103\145\156\164
\145\162\061\045\060\043\006\003\125\004\003\014\034\124\055\124
\145\154\145\123\145\143\040\107\154\157\142\141\154\122\157\157
\164\040\103\154\141\163\163\040\063\060\202\001\042\060\015\006
\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017
\000\060\202\001\012\002\202\001\001\000\275\165\223\360\142\042
\157\044\256\340\172\166\254\175\275\331\044\325\270\267\374\315
\360\102\340\353\170\210\126\136\233\232\124\035\115\014\212\366
\323\317\160\364\122\265\330\223\004\343\106\206\161\101\112\053
\360\052\054\125\003\326\110\303\340\071\070\355\362\134\074\077
\104\274\223\075\141\253\116\315\015\276\360\040\047\130\016\104
\177\004\032\207\245\327\226\024\066\220\320\111\173\241\165\373
\032\153\163\261\370\316\251\011\054\362\123\325\303\024\104\270
\206\245\366\213\053\071\332\243\063\124\331\372\162\032\367\042
\025\034\210\221\153\177\146\345\303\152\200\260\044\363\337\206
\105\210\375\031\177\165\207\037\037\261\033\012\163\044\133\271
\145\340\054\124\310\140\323\146\027\077\341\314\124\063\163\221
\002\072\246\177\173\166\071\242\037\226\266\070\256\265\310\223
\164\035\236\271\264\345\140\235\057\126\321\340\353\136\133\114
\022\160\014\154\104\040\253\021\330\364\031\366\322\234\122\067
\347\372\266\302\061\073\112\324\024\231\255\307\032\365\135\137
\372\007\270\174\015\037\326\203\036\263\002\003\001\000\001\243
\102\060\100\060\017\006\003\125\035\023\001\001\377\004\005\060
\003\001\001\377\060\016\006\003\125\035\017\001\001\377\004\004
\003\002\001\006\060\035\006\003\125\035\016\004\026\004\024\265
\003\367\166\073\141\202\152\022\252\030\123\353\003\041\224\277
\376\316\312\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\003\202\001\001\000\126\075\357\224\325\275\332\163\262
\130\276\256\220\255\230\047\227\376\001\261\260\122\000\270\115
\344\033\041\164\033\176\300\356\136\151\052\045\257\134\326\035
\332\322\171\311\363\227\051\340\206\207\336\004\131\017\361\131
\324\144\205\113\231\257\045\004\036\311\106\251\227\336\202\262
\033\160\237\234\366\257\161\061\335\173\005\245\054\323\271\312
\107\366\312\362\366\347\255\271\110\077\274\026\267\301\155\364
\352\011\257\354\363\265\347\005\236\246\036\212\123\121\326\223
\201\314\164\223\366\271\332\246\045\005\164\171\132\176\100\076
\202\113\046\021\060\156\341\077\101\307\107\000\065\325\365\323
\367\124\076\201\075\332\111\152\232\263\357\020\075\346\353\157
\321\310\042\107\313\314\317\001\061\222\331\030\343\042\276\011

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\036\032\076\132\262\344\153\014\124\172\175\103\116\270\211\245
\173\327\242\075\226\206\314\362\046\064\055\152\222\235\232\032
\320\060\342\135\116\004\260\137\213\040\176\167\301\075\225\202
\321\106\232\073\074\170\270\157\241\320\015\144\242\170\036\051
\116\223\303\244\124\024\133
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "T-TeleSec GlobalRoot Class 3"
# Issuer: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems
 Enterprise Services GmbH,C=DE
# Serial Number: 1 (0x1)
# Subject: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services
GmbH,C=DE
# Not Valid Before: Wed Oct 01 10:29:56 2008
# Not Valid After : Sat Oct 01 23:59:59 2033
# Fingerprint (SHA-256):
FD:73:DA:D3:1C:64:4F:F1:B4:3B:EF:0C:CD:DA:96:71:0B:9C:D9:87:5E:CA:7E:31:70:7A:F3:E9:6D:52:2B:BD
# Fingerprint (SHA1): 55:A6:72:3E:CB:F2:EC:CD:C3:23:74:70:19:9D:2A:BE:11:E3:81:D1
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "T-TeleSec GlobalRoot Class 3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\125\246\162\076\313\362\354\315\303\043\164\160\031\235\052\276
\021\343\201\321
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\312\373\100\250\116\071\222\212\035\376\216\057\304\047\352\357
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\053\060\051\006\003\125\004\012\014\042\124\055\123\171\163
\164\145\155\163\040\105\156\164\145\162\160\162\151\163\145\040
\123\145\162\166\151\143\145\163\040\107\155\142\110\061\037\060
\035\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155
\163\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045
\060\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123
\145\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154
\141\163\163\040\063
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\001\001
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END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "D-TRUST Root Class 3 CA 2 2009"
#
# Issuer: CN=D-TRUST Root Class 3 CA 2 2009,O=D-Trust GmbH,C=DE
# Serial Number: 623603 (0x983f3)
# Subject: CN=D-TRUST Root Class 3 CA 2 2009,O=D-Trust GmbH,C=DE
# Not Valid Before: Thu Nov 05 08:35:58 2009
# Not Valid After : Mon Nov 05 08:35:58
 2029
# Fingerprint (SHA-256):
49:E7:A4:42:AC:F0:EA:62:87:05:00:54:B5:25:64:B6:50:E4:F4:9E:42:E3:48:D6:AA:38:E0:39:E9:57:B1:C1
# Fingerprint (SHA1): 58:E8:AB:B0:36:15:33:FB:80:F7:9B:1B:6D:29:D3:FF:8D:5F:00:F0
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root Class 3 CA 2 2009"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\047\060\045\006\003\125\004\003\014
\036\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\063\040\103\101\040\062\040\062\060\060\071
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\047\060\045\006\003\125\004\003\014
\036\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\063\040\103\101\040\062\040\062\060\060\071
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\003\011\203\363
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\063\060\202\003\033\240\003\002\001\002\002\003\011
\203\363\060\015\006\011\052\206\110\206\367\015\001\001\013\005
\000\060\115\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165
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\163\164\040\107\155\142\110\061\047\060\045\006\003\125\004\003
\014\036\104\055\124\122\125\123\124\040\122\157\157\164\040\103
\154\141\163\163\040\063\040\103\101\040\062\040\062\060\060\071
\060\036\027\015\060\071\061\061\060\065\060\070\063\065\065\070
\132\027\015\062\071\061\061\060\065\060\070\063\065\065\070\132
\060\115\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\047\060\045\006\003\125\004\003\014
\036\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\063\040\103\101\040\062\040\062\060\060\071\060
\202\001\042\060\015\006\011\052\206\110\206\367\015\001\001\001
\005\000\003\202\001\017\000\060\202\001\012\002\202\001\001\000
\323\262\112\317\172\107\357\165\233\043\372\072\057\326\120\105
\211\065\072\306\153\333\376\333\000\150\250\340\003\021\035\067
\120\010\237\115\112\150\224\065\263\123\321\224\143\247\040\126
\257\336\121\170\354\052\075\363\110\110\120\076\012\337\106\125
\213\047\155\303\020\115\015\221\122\103\330\207\340\135\116\066
\265\041\312\137\071\100\004\137\133\176\314\243\306\053\251\100
\036\331\066\204\326\110\363\222\036\064\106\040\044\301\244\121
\216\112\032\357\120\077\151\135\031\177\105\303\307\001\217\121
\311\043\350\162\256\264\274\126\011\177\022\313\034\261\257\051
\220\012\311\125\314\017\323\264\032\355\107\065\132\112\355\234
\163\004\041\320\252\275\014\023\265\000\312\046\154\304\153\014
\224\132\225\224\332\120\232\361\377\245\053\146\061\244\311\070
\240\337\035\037\270\011\056\363\247\350\147\122\253\225\037\340
\106\076\330\244\303\312\132\305\061\200\350\110\232\237\224\151
\376\031\335\330\163\174\201\312\226\336\216\355\263\062\005\145
\204\064\346\346\375\127\020\265\137\166\277\057\260\020\015\305
\002\003\001\000\001\243\202\001\032\060\202\001\026\060\017\006
\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060\035
\006\003\125\035\016\004\026\004\024\375\332\024\304\237\060\336
\041\275\036\102\071\374\253\143\043\111\340\361\204\060\016\006
\003\125\035\017\001\001\377\004\004\003\002\001\006\060\201\323
\006\003\125\035\037\004\201\313\060\201\310\060\201\200\240\176
\240\174\206\172\154\144\141\160\072\057\057\144\151\162\145\143
\164\157\162\171\056\144\055\164\162\165\163\164\056\156\145\164
\057\103\116\075\104\055\124\122\125\123\124\045\062\060\122\157
\157\164\045\062\060\103\154\141\163\163\045\062\060\063\045\062
\060\103\101\045\062\060\062\045\062\060\062\060\060\071\054\117
\075\104\055\124\162\165\163\164\045\062\060\107\155\142\110\054
\103\075\104\105\077\143\145\162\164\151\146\151\143\141\164\145
\162\145\166\157\143\141\164\151\157\156\154\151\163\164\060\103
\240\101\240\077\206\075\150\164\164\160\072\057\057\167\167\167
\056\144\055\164\162\165\163\164\056\156\145\164\057\143\162\154
\057\144\055\164\162\165\163\164\137\162\157\157\164\137\143\154
\141\163\163\137\063\137\143\141\137\062\137\062\060\060\071\056
\143\162\154\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\003\202\001\001\000\177\227\333\060\310\337\244\234\175

\041\172\200\160\316\024\022\151\210\024\225\140\104\001\254\262
\351\060\117\233\120\302\146\330\176\215\060\265\160\061\351\342
\151\307\363\160\333\040\025\206\320\015\360\276\254\001\165\204
\316\176\237\115\277\267\140\073\234\363\312\035\342\136\150\330
\243\235\227\345\100\140\322\066\041\376\320\264\270\027\332\164
\243\177\324\337\260\230\002\254\157\153\153\054\045\044\162\241
\145\356\045\132\345\346\062\347\362\337\253\111\372\363\220\151
\043\333\004\331\347\134\130\374\145\324\227\276\314\374\056\012
\314\045\052\065\004\370\140\221\025\165\075\101\377\043\037\031
\310\154\353\202\123\004\246\344\114\042\115\215\214\272\316\133
\163\354\144\124\120\155\321\234\125\373\151\303\066\303\214\274
\074\205\246\153\012\046\015\340\223\230\140\256\176\306\044\227
\212\141\137\221\216\146\222\011\207\066\315\213\233\055\076\366
\121\324\120\324\131\050\275\203\362\314\050\173\123\206\155\330
\046\210\160\327\352\221\315\076\271\312\300\220\156\132\306\136
\164\145\327\134\376\243\342
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "D-TRUST Root Class 3 CA 2 2009"
Issuer: CN=D-TRUST Root Class 3 CA 2 2009,O=D-Trust GmbH,C=DE
Serial Number: 623603 (0x983f3)
Subject: CN=D-TRUST Root Class 3 CA 2 2009,O=D-Trust GmbH,C=DE
Not Valid Before:
Thu Nov 05 08:35:58 2009
Not Valid After : Mon Nov 05 08:35:58 2029
Fingerprint (SHA-256):
49:E7:A4:42:AC:F0:EA:62:87:05:00:54:B5:25:64:B6:50:E4:F4:9E:42:E3:48:D6:AA:38:E0:39:E9:57:B1:C1
Fingerprint (SHA1): 58:E8:AB:B0:36:15:33:FB:80:F7:9B:1B:6D:29:D3:FF:8D:5F:00:F0
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root Class 3 CA 2 2009"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\130\350\253\260\066\025\063\373\200\367\233\033\155\051\323\377
\215\137\000\360
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\315\340\045\151\215\107\254\234\211\065\220\367\375\121\075\057
END
CKA_ISSUER MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\047\060\045\006\003\125\004\003\014

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\036\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\063\040\103\101\040\062\040\062\060\060\071
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\003\011\203\363
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "D-TRUST Root Class 3 CA 2 EV 2009"
#
# Issuer: CN=D-TRUST Root Class 3 CA 2 EV 2009,O=D-Trust GmbH,C=DE
# Serial Number: 623604 (0x983f4)
# Subject: CN=D-TRUST Root Class 3 CA 2 EV 2009,O=D-Trust GmbH,C=DE
# Not Valid Before: Thu Nov 05 08:50:46 2009
# Not Valid After : Mon Nov 05 08:50:46 2029
# Fingerprint (SHA-256):
EE:C5:49:6B:98:8C:E9:86:25:B9:34:09:2E:EC:29:08:BE:D0:B0:F3:16:C2:D4:73:0C:84:EA:F1:F3:D3:48:81
# Fingerprint (SHA1): 96:C9:1B:0B:95:B4:10:98:42:FA:D0:D8:22:79:FE:60:FA:B9:16:83
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root Class 3 CA
 2 EV 2009"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\120\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\052\060\050\006\003\125\004\003\014
\041\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\063\040\103\101\040\062\040\105\126\040\062\060
\060\071
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\120\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\052\060\050\006\003\125\004\003\014
\041\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\063\040\103\101\040\062\040\105\126\040\062\060
\060\071
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
```

\002\003\011\203\364
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\103\060\202\003\053\240\003\002\001\002\002\003\011
\203\364\060\015\006\011\052\206\110\206\367\015\001\001\013\005
\000\060\120\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165
\163\164\040\107\155\142\110\061\052\060\050\006\003\125\004\003
\014\041\104\055\124\122\125\123\124\040\122\157\157\164\040\103
\154\141\163\163\040\063\040\103\101\040\062\040\105\126\040\062
\060\060\071\060\036\027\015\060\071\061\061\060\065\060\070\065
\060\064\066\132\027\015\062\071\061\061\060\065\060\070\065\060
\064\066\132\060\120\061\013\060\011\006\003\125\004\006\023\002
\104\105\061\025\060\023\006\003\125\004\012\014\014\104\055\124
\162\165\163\164\040\107\155\142\110\061\052\060\050\006\003\125
\004\003\014\041\104\055\124\122\125\123\124\040\122\157\157\164
\040\103\154\141\163\163\040\063\040\103\101\040\062\040\105\126
\040\062\060\060\071\060\202\001\042\060\015\006\011\052\206\110
\206\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001
\012\002\202\001\001\000\231\361\204\064\160\272\057\267\060\240
\216\275\174\004\317\276\142\274\231\375\202\227\322\172\012\147
\226\070\011\366\020\116\225\042\163\231\215\332\025\055\347\005
\374\031\163\042\267\216\230\000\274\074\075\254\241\154\373\326
\171\045\113\255\360\314\144\332\210\076\051\270\017\011\323\064
\335\063\365\142\321\341\315\031\351\356\030\117\114\130\256\342
\036\326\014\133\025\132\330\072\270\304\030\144\036\343\063\262
\265\211\167\116\014\277\331\224\153\023\227\157\022\243\376\231
\251\004\314\025\354\140\150\066\355\010\173\267\365\277\223\355
\146\061\203\214\306\161\064\207\116\027\352\257\213\221\215\034
\126\101\256\042\067\136\067\362\035\331\321\055\015\057\151\121
\247\276\146\246\212\072\052\275\307\032\261\341\024\360\276\072
\035\271\317\133\261\152\376\264\261\106\040\242\373\036\073\160
\357\223\230\175\214\163\226\362\305\357\205\160\255\051\046\374
\036\004\076\034\240\330\017\313\122\203\142\174\356\213\123\225
\220\251\127\242\352\141\005\330\371\115\304\047\372\156\255\355
\371\327\121\367\153\245\002\003\001\000\001\243\202\001\044\060
\202\001\040\060\017\006\003\125\035\023\001\001\377\004\005\060
\003\001\001\377\060\035\006\003\125\035\016\004\026\004\024\323
\224\212\114\142\023\052\031\056\314\257\162\212\175\066\327\232
\034\334\147\060\016\006\003\125\035\017\001\001\377\004\004\003
\002\001\006\060\201\335\006\003\125\035\037\004\201\325\060\201
\322\060\201\207\240\201\204\240\201\201\206\177\154\144\141\160
\072\057\057\144\151\162\145\143\164\157\162\171\056\144\055\164
\162\165\163\164\056\156\145\164\057\103\116\075\104\055\124\122
\125\123\124\045\062\060\122\157\157\164\045\062\060\103\154\141
\163\163\045\062\060\063\045\062\060\103\101\045\062\060\062\045
\062\060\105\126\045\062\060\062\060\060\071\054\117\075\104\055
\124\162\165\163\164\045\062\060\107\155\142\110\054\103\075\104

\105\077\143\145\162\164\151\146\151\143\141\164\145\162\145\166
\157\143\141\164\151\157\156\154\151\163\164\060\106\240\104\240
\102\206\100\150\164\164\160\072\057\057\167\167\167\056\144\055
\164\162\165\163\164\056\156\145\164\057\143\162\154\057\144\055
\164\162\165\163\164\137\162\157\157\164\137\143\154\141\163\163
\137\063\137\143\141\137\062\137\145\166\137\062\060\060\071\056
\143\162\154\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\003\202\001\001\000\064\355\173\132\074\244\224\210\357
\032\021\165\007\057\263\376\074\372\036\121\046\353\207\366\051
\336\340\361\324\306\044\011\351\301\317\125\033\264\060\331\316
\032\376\006\121\246\025\244\055\357\262\113\277\040\050\045\111
\321\246\066\167\064\350\144\337\122\261\021\307\163\172\315\071
\236\302\255\214\161\041\362\132\153\257\337\074\116\125\257\262
\204\145\024\211\271\167\313\052\061\276\317\243\155\317\157\110
\224\062\106\157\347\161\214\240\246\204\031\067\007\362\003\105
\011\053\206\165\174\337\137\151\127\000\333\156\330\246\162\042
\113\120\324\165\230\126\337\267\030\377\103\103\120\256\172\104
\173\360\171\121\327\103\075\247\323\201\323\360\311\117\271\332
\306\227\206\320\202\303\344\102\155\376\260\342\144\116\016\046
\347\100\064\046\265\010\211\327\010\143\143\070\047\165\036\063
\352\156\250\335\237\231\117\164\115\201\211\200\113\335\232\227
\051\134\057\276\201\101\271\214\377\352\175\140\006\236\315\327
\075\323\056\243\025\274\250\346\046\345\157\303\334\270\003\041
\352\237\026\361\054\124\265
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "D-TRUST Root Class 3 CA 2 EV 2009"
Issuer: CN=D-TRUST Root Class 3 CA 2 EV 2009,O=D-Trust GmbH,C=DE
Serial Number: 623604 (0x983f4)
Subject: CN=D-TRUST Root Class 3 CA 2 EV 2009,O=D-Trust GmbH,C=DE
Not Valid Before: Thu Nov 05 08:50:46 2009
Not Valid After : Mon Nov 05 08:50:46 2029
Fingerprint (SHA-256):
EE:C5:49:6B:98:8C:E9:86:25:B9:34:09:2E:EC:29:08:BE:D0:B0:F3:16:C2:D4:73:0C:84:EA:F1:F3:D3:48:81
Fingerprint (SHA1): 96:C9:1B:0B:95:B4:10:98:42:FA:D0:D8:22:79:FE:60:FA:B9:16:83
CKA_CLASS
 CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root Class 3 CA 2 EV 2009"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\226\311\033\013\225\264\020\230\102\372\320\330\042\171\376\140
\372\271\026\203

```
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\252\306\103\054\136\055\315\304\064\300\120\117\021\002\117\266
END
CKA_ISSUER MULTILINE_OCTAL
\060\120\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\052\060\050\006\003\125\004\003\014
\041\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\063\040\103\101\040\062\040\105\126\040\062\060
\060\071
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\011\203\364
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED
 CK_BBOOL CK_FALSE

#
# Certificate "CA Disig Root R2"
#
# Issuer: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK
# Serial Number:00:92:b8:88:db:b0:8a:c1:63
# Subject: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK
# Not Valid Before: Thu Jul 19 09:15:30 2012
# Not Valid After : Sat Jul 19 09:15:30 2042
# Fingerprint (SHA-256):
E2:3D:4A:03:6D:7B:70:E9:F5:95:B1:42:20:79:D2:B9:1E:DF:BB:1F:B6:51:A0:63:3E:AA:8A:9D:C5:F8:07:03
# Fingerprint (SHA1): B5:61:EB:EA:A4:DE:E4:25:4B:69:1A:98:A5:57:47:C2:34:C7:D9:71
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CA Disig Root R2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\122\061\013\060\011\006\003\125\004\006\023\002\123\113\061
\023\060\021\006\003\125\004\007\023\012\102\162\141\164\151\163
\154\141\166\141\061\023\060\021\006\003\125\004\012\023\012\104
\151\163\151\147\040\141\056\163\056\061\031\060\027\006\003\125
\004\003\023\020\103\101\040\104\151\163\151\147\040\122\157\157
\164\040\122\062
END
CKA_ID
```

UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\122\061\013\060\011\006\003\125\004\006\023\002\123\113\061
\023\060\021\006\003\125\004\007\023\012\102\162\141\164\151\163
\154\141\166\141\061\023\060\021\006\003\125\004\012\023\012\104
\151\163\151\147\040\141\056\163\056\061\031\060\027\006\003\125
\004\003\023\020\103\101\040\104\151\163\151\147\040\122\157\157
\164\040\122\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\222\270\210\333\260\212\301\143
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\151\060\202\003\121\240\003\002\001\002\002\011\000
\222\270\210\333\260\212\301\143\060\015\006\011\052\206\110\206
\367\015\001\001\013\005\000\060\122\061\013\060\011\006\003\125
\004\006\023\002\123\113\061\023\060\021\006\003\125\004\007\023
\012\102\162\141\164\151\163\154\141\166\141\061\023\060\021\006
\003\125\004\012\023\012\104\151\163\151\147\040\141\056\163\056
\061\031\060\027\006\003\125\004\003\023\020\103\101\040\104\151
\163\151\147\040\122\157\157\164\040\122\062\060\036\027\015\061
\062\060\067\061\071\060\071\061\065\063\060\132\027\015\064\062
\060\067\061\071\060\071\061\065\063\060\132\060\122\061\013\060
\011\006\003\125\004\006\023\002\123\113\061\023\060\021\006\003
\125\004\007\023\012\102\162\141\164\151\163\154\141\166\141\061
\023\060\021\006\003\125\004\012\023\012\104\151\163\151\147\040
\141\056\163\056\061\031\060\027\006\003\125\004\003\023\020\103
\101\040\104\151\163\151\147\040\122\157\157\164\040\122\062\060
\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001
\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001\000
\242\243\304\000\011\326\205\135\055\155\024\366\302\303\163\236
\065\302\161\125\176\201\373\253\106\120\340\301\174\111\170\346
\253\171\130\074\332\377\174\034\237\330\227\002\170\076\153\101
\004\351\101\275\276\003\054\105\366\057\144\324\253\135\243\107
\075\144\233\351\150\232\306\314\033\077\272\276\262\213\064\002
\056\230\125\031\374\214\157\252\137\332\114\316\115\003\041\243
\330\322\064\223\126\226\313\114\014\000\026\074\137\032\315\310
\307\154\246\255\323\061\247\274\350\345\341\146\326\322\373\003
\264\101\145\311\020\256\016\005\143\306\200\152\151\060\375\322
\356\220\357\015\047\337\237\225\163\364\341\045\332\154\026\336
\101\070\064\352\213\374\321\350\004\024\141\055\101\176\254\307
\167\116\313\121\124\373\136\222\030\033\004\132\150\306\311\304
\372\267\023\240\230\267\021\053\267\326\127\314\174\236\027\321
\313\045\376\206\116\044\056\126\014\170\115\236\001\022\246\053
\247\001\145\156\174\142\035\204\204\337\352\300\153\265\245\052
\225\203\303\123\021\014\163\035\013\262\106\220\321\102\072\316
\100\156\225\255\377\306\224\255\156\227\204\216\175\157\236\212
\200\015\111\155\163\342\173\222\036\303\363\301\363\353\056\005

\157\331\033\317\067\166\004\310\264\132\344\027\247\313\335\166
\037\320\031\166\350\054\005\263\326\234\064\330\226\334\141\207
\221\005\344\104\010\063\301\332\271\010\145\324\256\262\066\015
\353\272\070\272\014\345\233\236\353\215\146\335\231\317\326\211
\101\366\004\222\212\051\051\155\153\072\034\347\165\175\002\161
\016\363\300\347\275\313\031\335\235\140\262\302\146\140\266\261
\004\356\311\346\206\271\232\146\100\250\347\021\355\201\105\003
\213\366\147\131\350\301\006\021\275\335\317\200\002\117\145\100
\170\134\107\120\310\233\346\037\201\173\344\104\250\133\205\232
\342\336\132\325\307\371\072\104\146\113\344\062\124\174\344\154
\234\263\016\075\027\242\262\064\022\326\176\262\250\111\273\321
\172\050\100\276\242\026\037\337\344\067\037\021\163\373\220\012
\145\103\242\015\174\370\006\001\125\063\175\260\015\270\364\365
\256\245\102\127\174\066\021\214\173\136\304\003\235\214\171\235
\002\003\001\000\001\243\102\060\100\060\017\006\003\125\035\023
\001\001\377\004\005\060\003\001\001\377\060\016\006\003\125\035
\017\001\001\377\004\004\003\002\001\006\060\035\006\003\125\035
\016\004\026\004\024\265\231\370\257\260\224\365\343\040\326\012
\255\316\116\126\244\056\156\102\355\060\015\006\011\052\206\110
\206\367\015\001\001\013\005\000\003\202\002\001\000\046\006\136
\160\347\145\063\310\202\156\331\234\027\072\033\172\146\262\001
\366\170\073\151\136\057\352\377\116\371\050\303\230\052\141\114
\264\044\022\212\175\155\021\024\367\234\265\312\346\274\236\047
\216\114\031\310\251\275\172\300\327\066\016\155\205\162\156\250
\306\242\155\366\372\163\143\177\274\156\171\010\034\235\212\237
\032\212\123\246\330\273\331\065\125\261\021\305\251\003\263\126
\073\271\204\223\042\136\176\301\366\022\122\213\352\054\147\274
\376\066\114\365\270\317\321\263\111\222\073\323\051\016\231\033
\226\367\141\270\073\304\053\266\170\154\264\043\157\360\375\323
\262\136\165\037\231\225\250\254\366\332\341\305\061\173\373\321
\106\263\322\274\147\264\142\124\272\011\367\143\260\223\242\232
\371\351\122\056\213\140\022\253\374\365\140\126\357\020\134\213
\304\032\102\334\203\133\144\016\313\265\274\326\117\301\174\074
\156\215\023\155\373\173\353\060\320\334\115\257\305\325\266\245
\114\133\161\311\350\061\276\350\070\006\110\241\032\342\352\322
\336\022\071\130\032\377\200\016\202\165\346\267\311\007\154\016
\357\377\070\361\230\161\304\267\177\016\025\320\045\151\275\042
\235\053\355\005\366\106\107\254\355\300\360\324\073\342\354\356
\226\133\220\023\116\036\126\072\353\260\357\226\273\226\043\021
\272\362\103\206\164\144\225\310\050\165\337\035\065\272\322\067
\203\070\123\070\066\073\317\154\351\371\153\016\320\373\004\350
\117\167\327\145\001\170\206\014\172\076\041\142\361\177\143\161
\014\311\237\104\333\250\047\242\165\276\156\201\076\327\300\353
\033\230\017\160\134\064\262\212\314\300\205\030\353\156\172\263
\367\132\241\007\277\251\102\222\363\140\042\227\344\024\241\007
\233\116\166\300\216\175\375\244\045\307\107\355\377\037\163\254
\314\303\245\351\157\012\216\233\145\302\120\205\265\243\240\123
\022\314\125\207\141\363\201\256\020\106\141\275\104\041\270\302

\075\164\317\176\044\065\372\034\007\016\233\075\042\312\357\061
\057\214\254\022\275\357\100\050\374\051\147\237\262\023\117\146
\044\304\123\031\351\036\051\025\357\346\155\260\177\055\147\375
\363\154\033\165\106\243\345\112\027\351\244\327\013
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "CA Disig Root R2"
Issuer: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK
Serial Number:00:92:b8:88:db:b0:8a:c1:63
Subject: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK
Not Valid Before: Thu Jul 19 09:15:30 2012
Not Valid After : Sat Jul 19 09:15:30 2042
Fingerprint (SHA-256):
E2:3D:4A:03:6D:7B:70:E9:F5:95:B1:42:20:79:D2:B9:1E:DF:BB:1F:B6:51:A0:63:3E:AA:8A:9D:C5:F8:07:03
Fingerprint (SHA1): B5:61:EB:EA:A4:DE:E4:25:4B:69:1A:98:A5:57:47:C2:34:C7:D9:71
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE
CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CA Disig Root R2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\265\141\353\352\244\336\344\045\113\151\032\230\245\127\107\302
\064\307\331\161
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\046\001\373\330\047\247\027\232\105\124\070\032\103\001\073\003
END
CKA_ISSUER MULTILINE_OCTAL
\060\122\061\013\060\011\006\003\125\004\006\023\002\123\113\061
\023\060\021\006\003\125\004\007\023\012\102\162\141\164\151\163
\154\141\166\141\061\023\060\021\006\003\125\004\012\023\012\104
\151\163\151\147\040\141\056\163\056\061\031\060\027\006\003\125
\004\003\023\020\103\101\040\104\151\163\151\147\040\122\157\157
\164\040\122\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\222\270\210\333\260\212\301\143
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

```
#
# Certificate "ACCVRAIZ1"
#
#
 Issuer: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
# Serial Number:5e:c3:b7:a6:43:7f:a4:e0
# Subject: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
# Not Valid Before: Thu May 05 09:37:37 2011
# Not Valid After : Tue Dec 31 09:37:37 2030
# Fingerprint (SHA-256):
9A:6E:C0:12:E1:A7:DA:9D:BE:34:19:4D:47:8A:D7:C0:DB:18:22:FB:07:1D:F1:29:81:49:6E:D1:04:38:41:13
# Fingerprint (SHA1): 93:05:7A:88:15:C6:4F:CE:88:2F:FA:91:16:52:28:78:BC:53:64:17
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ACCVRAIZ1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\102\061\022\060\020\006\003\125\004\003\014\011\101\103\103
\126\122\101\111\132\061\061\020\060\016\006\003\125\004\013\014
\007\120\113\111\101\103\103\126\061\015\060\013\006\003\125\004
\012\014\004\101\103\103\126\061\013\060\011\006\003\125\004\006
\023\002\105\123
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\102\061\022\060\020\006\003\125\004\003\014\011\101\103\103
\126\122\101\111\132\061\061\020\060\016\006\003\125\004\013\014
\007\120\113\111\101\103\103\126\061\015\060\013\006\003\125\004
\012\014\004\101\103\103\126\061\013\060\011\006\003\125\004\006
\023\002\105\123
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\010\136\303\267\246\103\177\244\340
END
CKA_VALUE MULTILINE_OCTAL
\060\202\007\323\060\202\005\273\240\003\002\001\002\002\010\136
\303\267\246\103\177\244\340\060\015\006\011\052\206\110\206\367
\015\001\001\005\005\000\060\102\061\022\060\020\006\003\125\004
\003\014\011\101\103\103\126\122\101\111\132\061\061\020\060\016
\006\003\125\004\013\014\007\120\113\111\101\103\103\126\061\015
\060\013\006\003\125\004\012\014\004\101\103\103\126\061\013\060
\011\006\003\125\004\006\023\002\105\123\060\036\027\015\061\061
\060\065\060\065\060\071\063\067\063\067\132\027\015\063\060\061
\062\063\061\060\071\063\067\063\067\132\060\102\061\022\060\020
\006\003\125\004\003\014\011\101\103\103\126\122\101\111\132\061
```

\061\020\060\016\006\003\125\004\013\014\007\120\113\111\101\103
\103\126\061\015\060\013\006\003\125\004\012\014\004\101\103\103
\126\061\013\060\011\006\003\125\004\006\023\002\105\123\060\202
\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005
\000\003\202\002\017\000\060\202\002\012\002\202\002\001\000\233
\251\253\277\141\112\227\257\057\227\146\232\164\137\320\331\226
\375\317\342\344\146\357\037\037\107\063\302\104\243\337\232\336
\037\265\124\335\025\174\151\065\021\157\273\310\014\216\152\030
\036\330\217\331\026\274\020\110\066\134\360\143\263\220\132\134
\044\067\327\243\326\313\011\161\271\361\001\162\204\260\175\333
\115\200\315\374\323\157\311\370\332\266\016\202\322\105\205\250
\033\150\250\075\350\364\104\154\275\241\302\313\003\276\214\076
\023\000\204\337\112\110\300\343\042\012\350\351\067\247\030\114
\261\011\015\043\126\177\004\115\331\027\204\030\245\310\332\100
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\053\006\001\005\005\007\001\001\004\161\060\157\060\114\006\010
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\112\227\115\265\333\220\340\005\056\016\306\171\320\362\227\151
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\323\074\060\223\365\215\241\250\374\006\215\104\364\312\026\225
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\000\317\304\051\163\021\066\336\206\031\076\235\356\031\212\033
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\266\176\255\237\124\060\042\003\301\036\161\144\376\371\070\012
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\111\016\326\063\045\326\204\120\102\154\040\022\035\052\325\276
\274\362\160\201\244\160\140\276\005\265\233\236\004\104\276\141
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\317\015\204\344\027\267\242\174\245\336\125\045\006\356\314\300
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\315\172\203\001\162\356\207\346\137\035\256\265\205\306\046\337
\346\301\232\351\036\002\107\237\052\250\155\251\133\317\354\105
\167\177\230\047\232\062\135\052\343\204\356\305\230\146\057\226
\040\035\335\330\303\047\327\260\371\376\331\175\315\320\237\217
\013\024\130\121\237\057\213\303\070\055\336\350\217\326\215\207
\244\365\126\103\026\231\054\364\244\126\264\064\270\141\067\311
\302\130\200\033\240\227\241\374\131\215\351\021\366\321\017\113
\125\064\106\052\213\206\073
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "ACCVRAIZ1"
Issuer: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
Serial Number:5e:c3:b7:a6:43:7f:a4:e0
Subject: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
Not Valid Before: Thu May 05 09:37:37 2011
Not Valid After : Tue Dec 31 09:37:37 2030
Fingerprint (SHA-256):
9A:6E:C0:12:E1:A7:DA:9D:BE:34:19:4D:47:8A:D7:C0:DB:18:22:FB:07:1D:F1:29:81:49:6E:D1:04:38:41:13
#
Fingerprint (SHA1): 93:05:7A:88:15:C6:4F:CE:88:2F:FA:91:16:52:28:78:BC:53:64:17
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ACCVRAIZ1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\223\005\172\210\025\306\117\316\210\057\372\221\026\122\050\170
\274\123\144\027
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\320\240\132\356\005\266\011\224\041\241\175\361\262\051\202\002
END

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CKA_ISSUER MULTILINE_OCTAL
\060\102\061\022\060\020\006\003\125\004\003\014\011\101\103\103
\126\122\101\111\132\061\061\020\060\016\006\003\125\004\013\014
\007\120\113\111\101\103\103\126\061\015\060\013\006\003\125\004
\012\014\004\101\103\103\126\061\013\060\011\006\003\125\004\006
\023\002\105\123
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\136\303\267\246\103\177\244\340
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING
 CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "TWCA Global Root CA"
#
# Issuer: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW
# Serial Number: 3262 (0xcbe)
# Subject: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW
# Not Valid Before: Wed Jun 27 06:28:33 2012
# Not Valid After : Tue Dec 31 15:59:59 2030
# Fingerprint (SHA-256):
59:76:90:07:F7:68:5D:0F:CD:50:87:2F:9F:95:D5:75:5A:5B:2B:45:7D:81:F3:69:2B:61:0A:98:67:2F:0E:1B
# Fingerprint (SHA1): 9C:BB:48:53:F6:A4:F6:D3:52:A4:E8:32:52:55:60:13:F5:AD:AF:65
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TWCA Global Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\022\060\020\006\003\125\004\012\023\011\124\101\111\127\101\116
\055\103\101\061\020\060\016\006\003\125\004\013\023\007\122\157
\157\164\040\103\101\061\034\060\032\006\003\125\004\003\023\023
\124\127\103\101\040\107\154\157\142\141\154\040\122\157\157\164
\040\103\101
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\022\060\020\006\003\125\004\012\023\011\124\101\111\127\101\116
\055\103\101\061\020\060\016\006\003\125\004\013\023\007\122\157
\157\164\040\103\101\061\034\060\032\006\003\125\004\003\023\023
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\124\127\103\101\040\107\154\157\142\141\154\040\122\157\157\164
\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\014\276
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\101\060\202\003\051\240\003\002\001\002\002\002\014
\276\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000
\060\121\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\022\060\020\006\003\125\004\012\023\011\124\101\111\127\101\116
\055\103\101\061\020\060\016\006\003\125\004\013\023\007\122\157
\157\164\040\103\101\061\034\060\032\006\003\125\004\003\023\023
\124\127\103\101\040\107\154\157\142\141\154\040\122\157\157\164
\040\103\101\060\036\027\015\061\062\060\066\062\067\060\066\062
\070\063\063\132\027\015\063\060\061\062\063\061\061\065\065\071
\065\071\132\060\121\061\013\060\011\006\003\125\004\006\023\002
\124\127\061\022\060\020\006\003\125\004\012\023\011\124\101\111
\127\101\116\055\103\101\061\020\060\016\006\003\125\004\013\023
\007\122\157\157\164\040\103\101\061\034\060\032\006\003\125\004
\003\023\023\124\127\103\101\040\107\154\157\142\141\154\040\122
\157\157\164\040\103\101\060\202\002\042\060\015\006\011\052\206
\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202
\002\012\002\202\002\001\000\260\005\333\310\353\214\304\156\212
\041\357\216\115\234\161\012\037\122\160\355\155\202\234\227\305
\327\114\116\105\111\313\100\102\265\022\064\154\031\302\164\244
\061\137\205\002\227\354\103\063\012\123\322\234\214\216\267\270
\171\333\053\325\152\362\216\146\304\356\053\001\007\222\324\263
\320\002\337\120\366\125\257\146\016\313\340\107\140\057\053\062
\071\065\122\072\050\203\370\173\026\306\030\270\142\326\107\045
\221\316\360\031\022\115\255\143\365\323\077\165\137\051\360\241
\060\034\052\240\230\246\025\275\356\375\031\066\360\342\221\103
\217\372\312\326\020\047\111\114\357\335\301\361\205\160\233\312
\352\250\132\103\374\155\206\157\163\351\067\105\251\360\066\307
\314\210\165\036\273\154\006\377\233\153\076\027\354\141\252\161
\174\306\035\242\367\111\351\025\265\074\326\241\141\365\021\367
\005\157\035\375\021\276\320\060\007\302\051\260\011\116\046\334
\343\242\250\221\152\037\302\221\105\210\134\345\230\270\161\245
\025\031\311\174\165\021\314\160\164\117\055\233\035\221\104\375
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\310\253\042\331\163\017\245\364\132\002\211\077\117\236\042\202
\356\242\164\123\052\075\123\047\151\035\154\216\062\054\144\000
\046\143\141\066\116\243\106\267\077\175\263\055\254\155\220\242
\225\242\316\317\332\202\347\007\064\031\226\351\270\041\252\051
\176\246\070\276\216\051\112\041\146\171\037\263\303\265\011\147
\336\326\324\007\106\363\052\332\346\042\067\140\313\201\266\017
\240\017\351\310\225\177\277\125\221\005\172\317\075\025\300\157
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\267\322\354\222\310\276\011\277\054\051\005\157\002\153\236\357
\274\277\052\274\133\300\120\217\101\160\161\207\262\115\267\004
\251\204\243\062\257\256\356\153\027\213\262\261\376\154\341\220
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\261\036\036\167\057\216\240\346\222\016\006\374\005\042\322\046
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\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001
\377\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000
\003\202\002\001\000\137\064\201\166\357\226\035\325\345\265\331
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\056\032\115\201\277\204\324\160\036\255\107\376\375\112\235\063
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\037\253\317\064\354\077\050\376\014\361\127\206\116\311\125\367
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\140\243\002\356\053\354\324\143\222\013\136\276\057\166\153\243
\266\046\274\217\003\330\012\362\114\144\106\275\071\142\345\226
\353\064\143\021\050\314\225\361\255\357\357\334\200\130\110\351
\113\270\352\145\254\351\374\200\265\265\310\105\371\254\301\237
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\150\141\320\106\046\251\041\122\151\055\353\056\307\353\167\316
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\053\006\320\004\315
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

```
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "TWCA Global Root CA"
# Issuer: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW
# Serial Number: 3262 (0xcbe)
# Subject: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW
# Not Valid Before: Wed Jun 27 06:28:33 2012
# Not Valid After : Tue Dec 31 15:59:59 2030
# Fingerprint (SHA-256):
59:76:90:07:F7:68:5D:0F:CD:50:87:2F:9F:95:D5:75:5A:5B:2B:45:7D:81:F3:69:2B:61:0A:98:67:2F:0E:1B
# Fingerprint (SHA1): 9C:BB:48:53:F6:A4:F6:D3:52:A4:E8:32:52:55:60:13:F5:AD:AF:65
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TWCA Global Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\234\273\110\123\366\244\366\323\122\244\350\062\122\125\140\023
\365\255\257\145
END
CKA_CERT_MD5_HASH
 MULTILINE_OCTAL
\371\003\176\317\346\236\074\163\172\052\220\007\151\377\053\226
END
CKA_ISSUER MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\022\060\020\006\003\125\004\012\023\011\124\101\111\127\101\116
\055\103\101\061\020\060\016\006\003\125\004\013\023\007\122\157
\157\164\040\103\101\061\034\060\032\006\003\125\004\003\023\023
\124\127\103\101\040\107\154\157\142\141\154\040\122\157\157\164
\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\014\276
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "TeliaSonera Root CA v1"
#
# Issuer: CN=TeliaSonera Root CA v1,O=TeliaSonera
# Serial Number:00:95:be:16:a0:f7:2e:46:f1:7b:39:82:72:fa:8b:cd:96
# Subject: CN=TeliaSonera Root CA v1,O=TeliaSonera
#
```

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 Not Valid Before: Thu Oct 18 12:00:50 2007
# Not Valid After : Mon Oct 18 12:00:50 2032
# Fingerprint (SHA-256):
DD:69:36:FE:21:F8:F0:77:C1:23:A1:A5:21:C1:22:24:F7:22:55:B7:3E:03:A7:26:06:93:E8:A2:4B:0F:A3:89
# Fingerprint (SHA1): 43:13:BB:96:F1:D5:86:9B:C1:4E:6A:92:F6:CF:F6:34:69:87:82:37
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TeliaSonera Root CA v1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\067\061\024\060\022\006\003\125\004\012\014\013\124\145\154
\151\141\123\157\156\145\162\141\061\037\060\035\006\003\125\004
\003\014\026\124\145\154\151\141\123\157\156\145\162\141\040\122
\157\157\164\040\103\101\040\166\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\067\061\024\060\022\006\003\125\004\012\014\013\124\145\154
\151\141\123\157\156\145\162\141\061\037\060\035\006\003\125\004
\003\014\026\124\145\154\151\141\123\157\156\145\162\141\040\122
\157\157\164\040\103\101\040\166\061
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\021\000\225\276\026\240\367\056\106\361\173\071\202\162\372
\213\315\226
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\070\060\202\003\040\240\003\002\001\002\002\021\000
\225\276\026\240\367\056\106\361\173\071\202\162\372\213\315\226
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\067\061\024\060\022\006\003\125\004\012\014\013\124\145\154\151
\141\123\157\156\145\162\141\061\037\060\035\006\003\125\004\003
\014\026\124\145\154\151\141\123\157\156\145\162\141\040\122\157
\157\164\040\103\101\040\166\061\060\036\027\015\060\067\061\060
\061\070\061\062\060\060\065\060\132\027\015\063\062\061\060\061
\070\061\062\060\060\065\060\132\060\067\061\024\060\022\006\003
\125\004\012\014\013\124\145\154\151\141\123\157\156\145\162\141
\061\037\060\035\006\003\125\004\003\014\026\124\145\154\151\141
\123\157\156\145\162\141\040\122\157\157\164\040\103\101\040\166
\061\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001
\001\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002
\001\000\302\276\353\047\360\041\243\363\151\046\125\176\235\305
\125\026\221\134\375\357\041\277\123\200\172\055\322\221\214\143
\061\360\354\044\360\303\245\322\162\174\020\155\364\067\267\345
\346\174\171\352\214\265\202\213\256\110\266\254\000\334\145\165
```

\354\052\115\137\301\207\365\040\145\053\201\250\107\076\211\043
\225\060\026\220\177\350\127\007\110\347\031\256\277\105\147\261
\067\033\006\052\376\336\371\254\175\203\373\136\272\344\217\227
\147\276\113\216\215\144\007\127\070\125\151\064\066\075\023\110
\357\117\342\323\146\036\244\317\032\267\136\066\063\324\264\006
\275\030\001\375\167\204\120\000\105\365\214\135\350\043\274\176
\376\065\341\355\120\173\251\060\215\031\323\011\216\150\147\135
\277\074\227\030\123\273\051\142\305\312\136\162\301\307\226\324
\333\055\240\264\037\151\003\354\352\342\120\361\014\074\360\254
\363\123\055\360\034\365\355\154\071\071\163\200\026\310\122\260
\043\315\340\076\334\335\074\107\240\273\065\212\342\230\150\213
\276\345\277\162\356\322\372\245\355\022\355\374\230\030\251\046
\166\334\050\113\020\040\034\323\177\026\167\055\355\157\200\367
\111\273\123\005\273\135\150\307\324\310\165\026\077\211\132\213
\367\027\107\324\114\361\322\211\171\076\115\075\230\250\141\336
\072\036\322\370\136\003\340\301\311\034\214\323\215\115\323\225
\066\263\067\137\143\143\233\063\024\360\055\046\153\123\174\211
\214\062\302\156\354\075\041\000\071\311\241\150\342\120\203\056
\260\072\053\363\066\240\254\057\344\157\141\302\121\011\071\076
\213\123\271\273\147\332\334\123\271\166\131\066\235\103\345\040
\340\075\062\140\205\042\121\267\307\063\273\335\025\057\244\170
\246\007\173\201\106\066\004\206\335\171\065\307\225\054\073\260
\243\027\065\345\163\037\264\134\131\357\332\352\020\145\173\172
\320\177\237\263\264\052\067\073\160\213\233\133\271\053\267\354
\262\121\022\227\123\051\132\324\360\022\020\334\117\002\273\022
\222\057\142\324\077\151\103\174\015\326\374\130\165\001\210\235
\130\026\113\336\272\220\377\107\001\211\006\152\366\137\262\220
\152\263\002\246\002\210\277\263\107\176\052\331\325\372\150\170
\065\115\002\003\001\000\001\243\077\060\075\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\013\006\003
\125\035\017\004\004\003\002\001\006\060\035\006\003\125\035\016
\004\026\004\024\360\217\131\070\000\263\365\217\232\226\014\325
\353\372\173\252\027\350\023\022\060\015\006\011\052\206\110\206
\367\015\001\001\005\005\000\003\202\002\001\000\276\344\134\142
\116\044\364\014\010\377\360\323\014\150\344\223\111\042\077\104
\047\157\273\155\336\203\146\316\250\314\015\374\365\232\006\345
\167\024\221\353\235\101\173\231\052\204\345\377\374\041\301\135
\360\344\037\127\267\165\251\241\137\002\046\377\327\307\367\116
\336\117\370\367\034\106\300\172\117\100\054\042\065\360\031\261
\320\153\147\054\260\250\340\300\100\067\065\366\204\134\134\343
\257\102\170\376\247\311\015\120\352\015\204\166\366\121\357\203
\123\306\172\377\016\126\111\056\217\172\326\014\346\047\124\343
\115\012\140\162\142\315\221\007\326\245\277\310\231\153\355\304
\031\346\253\114\021\070\305\157\061\342\156\111\310\077\166\200
\046\003\046\051\340\066\366\366\040\123\343\027\160\064\027\235
\143\150\036\153\354\303\115\206\270\023\060\057\135\106\015\107
\103\325\033\252\131\016\271\134\215\006\110\255\164\207\137\307
\374\061\124\101\023\342\307\041\016\236\340\036\015\341\300\173

\103\205\220\305\212\130\306\145\012\170\127\362\306\043\017\001
\331\040\113\336\017\373\222\205\165\052\134\163\215\155\173\045
\221\312\356\105\256\006\113\000\314\323\261\131\120\332\072\210
\073\051\103\106\136\227\053\124\316\123\157\215\112\347\226\372
\277\161\016\102\213\174\375\050\240\320\110\312\332\304\201\114
\273\242\163\223\046\310\353\014\326\046\210\266\300\044\317\273
\275\133\353\165\175\351\010\216\206\063\054\171\167\011\151\245
\211\374\263\160\220\207\166\217\323\042\273\102\316\275\163\013
\040\046\052\320\233\075\160\036\044\154\315\207\166\251\027\226
\267\317\015\222\373\216\030\251\230\111\321\236\376\140\104\162
\041\271\031\355\302\365\061\361\071\110\210\220\044\165\124\026
\255\316\364\370\151\024\144\071\373\243\270\272\160\100\307\047
\034\277\304\126\123\372\143\145\320\363\034\016\026\365\153\206
\130\115\030\324\344\015\216\245\235\133\221\334\166\044\120\077
\306\052\373\331\267\234\265\326\346\320\331\350\031\213\025\161
\110\255\267\352\330\131\210\324\220\277\026\263\331\351\254\131
\141\124\310\034\272\312\301\312\341\271\040\114\217\072\223\211
\245\240\314\277\323\366\165\244\165\226\155\126
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "TeliaSonera Root CA v1"
Issuer: CN=TeliaSonera Root CA v1,O=TeliaSonera
Serial Number:00:95:be:16:a0:f7:2e:46:f1:7b:39:82:72:fa:8b:cd:96
Subject: CN=TeliaSonera Root CA v1,O=TeliaSonera
#
Not Valid Before: Thu Oct 18 12:00:50 2007
Not Valid After : Mon Oct 18 12:00:50 2032
Fingerprint (SHA-256):
DD:69:36:FE:21:F8:F0:77:C1:23:A1:A5:21:C1:22:24:F7:22:55:B7:3E:03:A7:26:06:93:E8:A2:4B:0F:A3:89
Fingerprint (SHA1): 43:13:BB:96:F1:D5:86:9B:C1:4E:6A:92:F6:CF:F6:34:69:87:82:37
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TeliaSonera Root CA v1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\103\023\273\226\361\325\206\233\301\116\152\222\366\317\366\064
\151\207\202\067
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\067\101\111\033\030\126\232\046\365\255\302\146\373\100\245\114
END
CKA_ISSUER MULTILINE_OCTAL
\060\067\061\024\060\022\006\003\125\004\012\014\013\124\145\154

\151\141\123\157\156\145\162\141\061\037\060\035\006\003\125\004
\003\014\026\124\145\154\151\141\123\157\156\145\162\141\040\122
\157\157\164\040\103\101\040\166\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\225\276\026\240\367\056\106\361\173\071\202\162\372
\213\315\226
END
CKA_TRUST_SERVER_AUTH
 CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "T-TeleSec GlobalRoot Class 2"
#
Issuer: CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE
Serial Number: 1 (0x1)
Subject: CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE
Not Valid Before: Wed Oct 01 10:40:14 2008
Not Valid After : Sat Oct 01 23:59:59 2033
Fingerprint (SHA-256):
91:E2:F5:78:8D:58:10:EB:A7:BA:58:73:7D:E1:54:8A:8E:CA:CD:01:45:98:BC:0B:14:3E:04:1B:17:05:25:52
Fingerprint (SHA1): 59:0D:2D:7D:88:4F:40:2E:61:7E:A5:62:32:17:65:CF:17:D8:94:E9
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL
 CK_FALSE
CKA_LABEL UTF8 "T-TeleSec GlobalRoot Class 2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\053\060\051\006\003\125\004\012\014\042\124\055\123\171\163
\164\145\155\163\040\105\156\164\145\162\160\162\151\163\145\040
\123\145\162\166\151\143\145\163\040\107\155\142\110\061\037\060
\035\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155
\163\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045
\060\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123
\145\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154
\141\163\163\040\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\104\105

\061\053\060\051\006\003\125\004\012\014\042\124\055\123\171\163
\164\145\155\163\040\105\156\164\145\162\160\162\151\163\145\040
\123\145\162\166\151\143\145\163\040\107\155\142\110\061\037\060
\035\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155
\163\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045
\060\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123
\145\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154
\141\163\163\040\062
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\303\060\202\002\253\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\201\202\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\053\060\051\006\003\125\004\012\014\042\124\055\123\171\163\164
\145\155\163\040\105\156\164\145\162\160\162\151\163\145\040\123
\145\162\166\151\143\145\163\040\107\155\142\110\061\037\060\035
\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155\163
\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045\060
\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123\145
\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154\141
\163\163\040\062\060\036\027\015\060\070\061\060\060\061\061\060
\064\060\061\064\132\027\015\063\063\061\060\060\061\062\063\065
\071\065\071\132\060\201\202\061\013\060\011\006\003\125\004\006
\023\002\104\105\061\053\060\051\006\003\125\004\012\014\042\124
\055\123\171\163\164\145\155\163\040\105\156\164\145\162\160\162
\151\163\145\040\123\145\162\166\151\143\145\163\040\107\155\142
\110\061\037\060\035\006\003\125\004\013\014\026\124\055\123\171
\163\164\145\155\163\040\124\162\165\163\164\040\103\145\156\164
\145\162\061\045\060\043\006\003\125\004\003\014\034\124\055\124
\145\154\145\123\145\143\040\107\154\157\142\141\154\122\157\157
\164\040\103\154\141\163\163\040\062\060\202\001\042\060\015\006
\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017
\000\060\202\001\012\002\202\001\001\000\252\137\332\033\137\350
\163\221\345\332\134\364\242\346\107\345\363\150\125\140\005\035
\002\244\263\233\131\363\036\212\257\064\255\374\015\302\331\110
\031\356\151\217\311\040\374\041\252\007\031\355\260\134\254\145
\307\137\355\002\174\173\174\055\033\326\272\271\200\302\030\202
\026\204\372\146\260\010\306\124\043\201\344\315\271\111\077\366
\117\156\067\110\050\070\017\305\276\347\150\160\375\071\227\115
\322\307\230\221\120\252\304\104\263\043\175\071\107\351\122\142
\326\022\223\136\267\061\226\102\005\373\166\247\036\243\365\302
\374\351\172\305\154\251\161\117\352\313\170\274\140\257\307\336
\364\331\313\276\176\063\245\156\224\203\360\064\372\041\253\352
\216\162\240\077\244\336\060\133\357\206\115\152\225\133\103\104

\250\020\025\034\345\001\127\305\230\361\346\006\050\221\252\040
\305\267\123\046\121\103\262\013\021\225\130\341\300\017\166\331
\300\215\174\201\363\162\160\236\157\376\032\216\331\137\065\306
\262\157\064\174\276\110\117\342\132\071\327\330\235\170\236\237
\206\076\003\136\031\213\104\242\325\307\002\003\001\000\001\243
\102\060\100\060\017\006\003\125\035\023\001\001\377\004\005\060
\003\001\001\377\060\016\006\003\125\035\017\001\001\377\004\004
\003\002\001\006\060\035\006\003\125\035\016\004\026\004\024\277
\131\040\066\000\171\240\240\042\153\214\325\362\141\322\270\054
\313\202\112\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\003\202\001\001\000\061\003\242\141\013\037\164\350\162
\066\306\155\371\115\236\372\042\250\341\201\126\317\315\273\237
\352\253\221\031\070\257\252\174\025\115\363\266\243\215\245\364
\216\366\104\251\247\350\041\225\255\076\000\142\026\210\360\002
\272\374\141\043\346\063\233\060\172\153\066\142\173\255\004\043
\204\130\145\342\333\053\212\347\045\123\067\142\123\137\274\332
\001\142\051\242\246\047\161\346\072\042\176\301\157\035\225\160
\040\112\007\064\337\352\377\025\200\345\272\327\172\330\133\165
\174\005\172\051\107\176\100\250\061\023\167\315\100\073\264\121
\107\172\056\021\343\107\021\336\235\146\320\213\325\124\146\372
\203\125\352\174\302\051\211\033\351\157\263\316\342\005\204\311
\057\076\170\205\142\156\311\137\301\170\143\164\130\300\110\030
\014\231\071\353\244\314\032\265\171\132\215\025\234\330\024\015
\366\172\007\127\307\042\203\005\055\074\233\045\046\075\030\263
\251\103\174\310\310\253\144\217\016\243\277\234\033\235\060\333
\332\320\031\056\252\074\361\373\063\200\166\344\315\255\031\117
\005\047\216\023\241\156\302
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "T-TeleSec GlobalRoot Class 2"
Issuer: CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE
Serial Number: 1 (0x1)
Subject: CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE
Not Valid Before: Wed Oct 01 10:40:14 2008
Not Valid After : Sat Oct 01 23:59:59 2033
Fingerprint (SHA-256):
91:E2:F5:78:8D:58:10:EB:A7:BA:58:73:7D:E1:54:8A:8E:CA:CD:01:45:98:BC:0B:14:3E:04:1B:17:05:25:52
Fingerprint (SHA1): 59:0D:2D:7D:88:4F:40:2E:61:7E:A5:62:32:17:65:CF:17:D8:94:E9
CKA_CLASS
 CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "T-TeleSec GlobalRoot Class 2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\131\015\055\175\210\117\100\056\141\176\245\142\062\027\145\317
\027\330\224\351
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\053\233\236\344\173\154\037\000\162\032\314\301\167\171\337\152
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\053\060\051\006\003\125\004\012\014\042\124\055\123\171\163
\164\145\155\163\040\105\156\164\145\162\160\162\151\163\145\040
\123\145\162\166\151\143\145\163\040\107\155\142\110\061\037\060
\035\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155
\163\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045
\060\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123
\145\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154
\141\163\163\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH
 CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Atos TrustedRoot 2011"
#
# Issuer: C=DE,O=Atos,CN=Atos TrustedRoot 2011
# Serial Number:5c:33:cb:62:2c:5f:b3:32
# Subject: C=DE,O=Atos,CN=Atos TrustedRoot 2011
# Not Valid Before: Thu Jul 07 14:58:30 2011
# Not Valid After : Tue Dec 31 23:59:59 2030
# Fingerprint (SHA-256):
F3:56:BE:A2:44:B7:A9:1E:B3:5D:53:CA:9A:D7:86:4A:CE:01:8E:2D:35:D5:F8:F9:6D:DF:68:A6:F4:1A:A4:74
# Fingerprint (SHA1): 2B:B1:F5:3E:55:0C:1D:C5:F1:D4:E6:B7:6A:46:4B:55:06:02:AC:21
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Atos TrustedRoot 2011"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\074\061\036\060\034\006\003\125\004\003\014\025\101\164\157
```

\163\040\124\162\165\163\164\145\144\122\157\157\164\040\062\060
\061\061\061\015\060\013\006\003\125\004\012\014\004\101\164\157
\163\061\013\060\011\006\003\125\004\006\023\002\104\105
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\074\061\036\060\034\006\003\125\004\003\014\025\101\164\157
\163\040\124\162\165\163\164\145\144\122\157\157\164\040\062\060
\061\061\061\015\060\013\006\003\125\004\012\014\004\101\164\157
\163\061\013\060\011\006\003\125\004\006\023\002\104\105
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\134\063\313\142\054\137\263\062
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\167\060\202\002\137\240\003\002\001\002\002\010\134
\063\313\142\054\137\263\062\060\015\006\011\052\206\110\206\367
\015\001\001\013\005\000\060\074\061\036\060\034\006\003\125\004
\003\014\025\101\164\157\163\040\124\162\165\163\164\145\144\122
\157\157\164\040\062\060\061\061\061\015\060\013\006\003\125\004
\012\014\004\101\164\157\163\061\013\060\011\006\003\125\004\006
\023\002\104\105\060\036\027\015\061\061\060\067\060\067\061\064
\065\070\063\060\132\027\015\063\060\061\062\063\061\062\063\065
\071\065\071\132\060\074\061\036\060\034\006\003\125\004\003\014
\025\101\164\157\163\040\124\162\165\163\164\145\144\122\157\157
\164\040\062\060\061\061\061\015\060\013\006\003\125\004\012\014
\004\101\164\157\163\061\013\060\011\006\003\125\004\006\023\002
\104\105\060\202\001\042\060\015\006\011\052\206\110\206\367\015
\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202
\001\001\000\225\205\073\227\157\052\073\056\073\317\246\363\051
\065\276\317\030\254\076\252\331\370\115\240\076\032\107\271\274
\232\337\362\376\314\076\107\350\172\226\302\044\216\065\364\251
\014\374\202\375\155\301\162\142\047\275\352\153\353\347\212\314
\124\076\220\120\317\200\324\225\373\350\265\202\324\024\305\266
\251\125\045\127\333\261\120\366\260\140\144\131\172\151\317\003
\267\157\015\276\312\076\157\164\162\352\252\060\052\163\142\276
\111\221\141\310\021\376\016\003\052\367\152\040\334\002\025\015
\136\025\152\374\343\202\301\265\305\235\144\011\154\243\131\230
\007\047\307\033\226\053\141\164\161\154\103\361\367\065\211\020
\340\236\354\125\241\067\042\242\207\004\005\054\107\175\264\034
\271\142\051\146\050\312\267\341\223\365\244\224\003\231\271\160
\205\265\346\110\352\215\120\374\331\336\314\157\007\016\335\013
\162\235\200\060\026\007\225\077\050\016\375\305\165\117\123\326
\164\232\264\044\056\216\002\221\317\166\305\233\036\125\164\234
\170\041\261\360\055\361\013\237\302\325\226\030\037\360\124\042
\172\214\007\002\003\001\000\001\243\175\060\173\060\035\006\003
\125\035\016\004\026\004\024\247\245\006\261\054\246\011\140\356

\321\227\351\160\256\274\073\031\154\333\041\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\037\006\003
\125\035\043\004\030\060\026\200\024\247\245\006\261\054\246\011
\140\356\321\227\351\160\256\274\073\031\154\333\041\060\030\006
\003\125\035\040\004\021\060\017\060\015\006\013\053\006\001\004
\001\260\055\003\004\001\001\060\016\006\003\125\035\017\001\001
\377\004\004\003\002\001\206\060\015\006\011\052\206\110\206\367
\015\001\001\013\005\000\003\202\001\001\000\046\167\064\333\224
\110\206\052\101\235\054\076\006\220\140\304\214\254\013\124\270
\037\271\173\323\007\071\344\372\076\173\262\075\116\355\237\043
\275\227\363\153\134\357\356\375\100\246\337\241\223\241\012\206
\254\357\040\320\171\001\275\170\367\031\330\044\061\064\004\001
\246\272\025\232\303\047\334\330\117\017\314\030\143\377\231\017
\016\221\153\165\026\341\041\374\330\046\307\107\267\246\317\130
\162\161\176\272\341\115\225\107\073\311\257\155\241\264\301\354
\211\366\264\017\070\265\342\144\334\045\317\246\333\353\232\134
\231\241\305\010\336\375\346\332\325\326\132\105\014\304\267\302
\265\024\357\264\021\377\016\025\265\365\365\333\306\275\353\132
\247\360\126\042\251\074\145\124\306\025\250\275\206\236\315\203
\226\150\172\161\201\211\341\013\341\352\021\033\150\010\314\151
\236\354\236\101\236\104\062\046\172\342\207\012\161\075\353\344
\132\244\322\333\305\315\306\336\140\177\271\363\117\104\222\357
\052\267\030\076\247\031\331\013\175\261\067\101\102\260\272\140
\035\362\376\011\021\260\360\207\173\247\235
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Atos TrustedRoot 2011"
Issuer: C=DE,O=Atos,CN=Atos TrustedRoot 2011
Serial Number:5c:33:cb:62:2c:5f:b3:32
Subject: C=DE,O=Atos,CN=Atos TrustedRoot 2011
Not Valid Before: Thu Jul 07 14:58:30 2011
Not Valid After : Tue Dec 31 23:59:59 2030
Fingerprint (SHA-256):
F3:56:BE:A2:44:B7:A9:1E:B3:5D:53:CA:9A:D7:86:4A:CE:01:8E:2D:35:D5:F8:F9:6D:DF:68:A6:F4:1A:A4:74
Fingerprint (SHA1): 2B:B1:F5:3E:55:0C:1D:C5:F1:D4:E6:B7:6A:46:4B:55:06:02:AC:21
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8
 "Atos TrustedRoot 2011"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\053\261\365\076\125\014\035\305\361\324\346\267\152\106\113\125
\006\002\254\041

```
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\256\271\304\062\113\254\177\135\146\314\167\224\273\052\167\126
END
CKA_ISSUER MULTILINE_OCTAL
\060\074\061\036\060\034\006\003\125\004\003\014\025\101\164\157
\163\040\124\162\165\163\164\145\144\122\157\157\164\040\062\060
\061\061\061\015\060\013\006\003\125\004\012\014\004\101\164\157
\163\061\013\060\011\006\003\125\004\006\023\002\104\105
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\134\063\313\142\054\137\263\062
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "QuoVadis Root CA 1 G3"
#
# Issuer: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
# Serial Number:78:58:5f:2e:ad:2c:19:4b:e3:37:07:35:34:13:28:b5:96:d4:65:93
#
 Subject: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 17:27:44 2012
# Not Valid After : Sun Jan 12 17:27:44 2042
# Fingerprint (SHA-256):
8A:86:6F:D1:B2:76:B5:7E:57:8E:92:1C:65:82:8A:2B:ED:58:E9:F2:F2:88:05:41:34:B7:F1:F4:BF:C9:CC:74
# Fingerprint (SHA1): 1B:8E:EA:57:96:29:1A:C9:39:EA:B8:0A:81:1A:73:73:C0:93:79:67
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 1 G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\061\040\107\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
```

\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\061\040\107\063
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\024\170\130\137\056\255\054\031\113\343\067\007\065\064\023
\050\265\226\324\145\223
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\140\060\202\003\110\240\003\002\001\002\002\024\170
\130\137\056\255\054\031\113\343\067\007\065\064\023\050\265\226
\324\145\223\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\060\110\061\013\060\011\006\003\125\004\006\023\002\102
\115\061\031\060\027\006\003\125\004\012\023\020\121\165\157\126
\141\144\151\163\040\114\151\155\151\164\145\144\061\036\060\034
\006\003\125\004\003\023\025\121\165\157\126\141\144\151\163\040
\122\157\157\164\040\103\101\040\061\040\107\063\060\036\027\015
\061\062\060\061\061\062\061\067\062\067\064\064\132\027\015\064
\062\060\061\061\062\061\067\062\067\064\064\132\060\110\061\013
\060\011\006\003\125\004\006\023\002\102\115\061\031\060\027\006
\003\125\004\012\023\020\121\165\157\126\141\144\151\163\040\114
\151\155\151\164\145\144\061\036\060\034\006\003\125\004\003\023
\025\121\165\157\126\141\144\151\163\040\122\157\157\164\040\103
\101\040\061\040\107\063\060\202\002\042\060\015\006\011\052\206
\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202
\002\012\002\202\002\001\000\240\276\120\020\216\351\362\154\100
\264\004\234\205\271\061\312\334\055\344\021\251\004\074\033\125
\301\347\130\060\035\044\264\303\357\205\336\214\054\341\301\075
\337\202\346\117\255\107\207\154\354\133\111\301\112\325\273\217
\354\207\254\177\202\232\206\354\075\003\231\122\001\322\065\236
\254\332\360\123\311\146\074\324\254\002\001\332\044\323\073\250
\002\106\257\244\034\343\370\163\130\166\267\366\016\220\015\265
\360\317\314\372\371\306\114\345\303\206\060\012\215\027\176\065
\353\305\337\273\016\234\300\215\207\343\210\070\205\147\372\076
\307\253\340\023\234\005\030\230\317\223\365\261\222\264\374\043
\323\317\325\304\047\111\340\236\074\233\010\243\213\135\052\041
\340\374\071\252\123\332\175\176\317\032\011\123\274\135\005\004
\317\241\112\217\213\166\202\015\241\370\322\307\024\167\133\220
\066\007\201\233\076\006\372\122\136\143\305\246\000\376\245\351
\122\033\122\265\222\071\162\003\011\142\275\260\140\026\156\246
\335\045\302\003\146\335\363\004\321\100\342\116\213\206\364\157
\345\203\240\047\204\136\004\301\365\220\275\060\075\304\357\250
\151\274\070\233\244\244\226\321\142\332\151\300\001\226\256\313
\304\121\064\352\014\252\377\041\216\131\217\112\134\344\141\232
\247\322\351\052\170\215\121\075\072\025\356\242\131\216\251\134
\336\305\371\220\042\345\210\105\161\335\221\231\154\172\237\075
\075\230\174\136\366\276\026\150\240\136\256\013\043\374\132\017
\252\042\166\055\311\241\020\035\344\323\104\043\220\210\237\306

\052\346\327\365\232\263\130\036\057\060\211\010\033\124\242\265
\230\043\354\010\167\034\225\135\141\321\313\211\234\137\242\112
\221\232\357\041\252\111\026\010\250\275\141\050\061\311\164\255
\205\366\331\305\261\213\321\345\020\062\115\137\213\040\072\074
\111\037\063\205\131\015\333\313\011\165\103\151\163\373\153\161
\175\360\337\304\114\175\306\243\056\310\225\171\313\163\242\216
\116\115\044\373\136\344\004\276\162\033\246\047\055\111\132\231
\172\327\134\011\040\267\177\224\271\117\361\015\034\136\210\102
\033\021\267\347\221\333\236\154\364\152\337\214\006\230\003\255
\314\050\357\245\107\363\123\002\003\001\000\001\243\102\060\100
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001
\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001
\006\060\035\006\003\125\035\016\004\026\004\024\243\227\326\363
\136\242\020\341\253\105\237\074\027\144\074\356\001\160\234\314
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\003
\202\002\001\000\030\372\133\165\374\076\172\307\137\167\307\312
\337\317\137\303\022\304\100\135\324\062\252\270\152\327\325\025
\025\106\230\043\245\346\220\133\030\231\114\343\255\102\243\202
\061\066\210\315\351\373\304\004\226\110\213\001\307\215\001\317
\133\063\006\226\106\146\164\035\117\355\301\266\271\264\015\141
\314\143\176\327\056\167\214\226\034\052\043\150\153\205\127\166
\160\063\023\376\341\117\246\043\167\030\372\032\214\350\275\145
\311\317\077\364\311\027\334\353\307\274\300\004\056\055\106\057
\151\146\303\033\217\376\354\076\323\312\224\277\166\012\045\015
\251\173\002\034\251\320\073\137\013\300\201\072\075\144\341\277
\247\055\116\275\115\304\330\051\306\042\030\320\305\254\162\002
\202\077\252\072\242\072\042\227\061\335\010\143\303\165\024\271
\140\050\055\133\150\340\026\251\146\202\043\121\365\353\123\330
\061\233\173\351\267\235\113\353\210\026\317\371\135\070\212\111
\060\217\355\361\353\031\364\167\032\061\030\115\147\124\154\057
\157\145\371\333\075\354\041\354\136\364\364\213\312\140\145\124
\321\161\144\364\371\246\243\201\063\066\063\161\360\244\170\137
\116\255\203\041\336\064\111\215\350\131\254\235\362\166\132\066
\362\023\364\257\340\011\307\141\052\154\367\340\235\256\273\206
\112\050\157\056\356\264\171\315\220\063\303\263\166\372\365\360
\154\235\001\220\372\236\220\366\234\162\317\107\332\303\037\344
\065\040\123\362\124\321\337\141\203\246\002\342\045\070\336\205
\062\055\136\163\220\122\135\102\304\316\075\113\341\371\031\204
\035\325\242\120\314\101\373\101\024\303\275\326\311\132\243\143
\146\002\200\275\005\072\073\107\234\354\000\046\114\365\210\121
\277\250\043\177\030\007\260\013\355\213\046\241\144\323\141\112
\353\134\237\336\263\257\147\003\263\037\335\155\135\151\150\151
\253\136\072\354\174\151\274\307\073\205\116\236\025\271\264\025
\117\303\225\172\130\327\311\154\351\154\271\363\051\143\136\264
\054\360\055\075\355\132\145\340\251\133\100\302\110\231\201\155
\236\037\006\052\074\022\264\213\017\233\242\044\360\246\215\326
\172\340\113\266\144\226\143\225\204\302\112\315\034\056\044\207
\063\140\345\303

```
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "QuoVadis Root CA 1 G3"
# Issuer: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
# Serial Number:78:58:5f:2e:ad:2c:19:4b:e3:37:07:35:34:13:28:b5:96:d4:65:93
# Subject: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 17:27:44 2012
# Not Valid After : Sun Jan 12 17:27:44 2042
# Fingerprint (SHA-256):
8A:86:6F:D1:B2:76:B5:7E:57:8E:92:1C:65:82:8A:2B:ED:58:E9:F2:F2:88:05:41:34:B7:F1:F4:BF:C9:CC:74
# Fingerprint (SHA1): 1B:8E:EA:57:96:29:1A:C9:39:EA:B8:0A:81:1A:73:73:C0:93:79:67
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 1 G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\033\216\352\127\226\051\032\311\071\352\270\012\201\032\163\163
\300\223\171\147
END
CKA_CERT_MD5_HASH
 MULTILINE_OCTAL
\244\274\133\077\376\067\232\372\144\360\342\372\005\075\013\253
END
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\061\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\170\130\137\056\255\054\031\113\343\067\007\065\064\023
\050\265\226\324\145\223
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "QuoVadis Root CA 2 G3"
#
# Issuer: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM
```

```
# Serial Number:44:57:34:24:5b:81:89:9b:35:f2:ce:b8:2b:3b:5b:a7:26:f0:75:28
# Subject: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM
#
 Not Valid Before: Thu Jan 12 18:59:32 2012
# Not Valid After : Sun Jan 12 18:59:32 2042
# Fingerprint (SHA-256):
8F:E4:FB:0A:F9:3A:4D:0D:67:DB:0B:EB:B2:3E:37:C7:1B:F3:25:DC:BC:DD:24:0E:A0:4D:AF:58:B4:7E:18:40
# Fingerprint (SHA1): 09:3C:61:F3:8B:8B:DC:7D:55:DF:75:38:02:05:00:E1:25:F5:C8:36
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 2 G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\062\040\107\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\062\040\107\063
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\024\104\127\064\044\133\201\211\233\065\362\316\270\053\073
\133\247\046\360\165\050
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\140\060\202\003\110\240\003\002\001\002\002\024\104
\127\064\044\133\201\211\233\065\362\316\270\053\073\133\247\046
\360\165\050\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\060\110\061\013\060\011\006\003\125\004\006\023\002\102
\115\061\031\060\027\006\003\125\004\012\023\020\121\165\157\126
\141\144\151\163\040\114\151\155\151\164\145\144\061\036\060\034
\006\003\125\004\003\023\025\121\165\157\126\141\144\151\163\040
\122\157\157\164\040\103\101\040\062\040\107\063\060\036\027\015
\061\062\060\061\061\062\061\070\065\071\063\062\132\027\015\064
\062\060\061\061\062\061\070\065\071\063\062\132\060\110\061\013
\060\011\006\003\125\004\006\023\002\102\115\061\031\060\027\006
\003\125\004\012\023\020\121\165\157\126\141\144\151\163\040\114
\151\155\151\164\145\144\061\036\060\034\006\003\125\004\003\023
```

\025\121\165\157\126\141\144\151\163\040\122\157\157\164\040\103
\101\040\062\040\107\063\060\202\002\042\060\015\006\011\052\206
\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202
\002\012\002\202\002\001\000\241\256\045\262\001\030\334\127\210
\077\106\353\371\257\342\353\043\161\342\232\321\141\146\041\137
\252\257\047\121\345\156\033\026\324\055\175\120\260\123\167\275
\170\072\140\342\144\002\233\174\206\233\326\032\216\255\377\037
\025\177\325\225\036\022\313\346\024\204\004\301\337\066\263\026
\237\212\343\311\333\230\064\316\330\063\027\050\106\374\247\311
\360\322\264\325\115\011\162\111\371\362\207\343\251\332\175\241
\175\153\262\072\045\251\155\122\104\254\370\276\156\373\334\246
\163\221\220\141\246\003\024\040\362\347\207\243\210\255\255\240
\214\377\246\013\045\122\045\347\026\001\325\313\270\065\201\014
\243\073\360\341\341\374\132\135\316\200\161\155\370\111\253\076
\073\272\270\327\200\001\373\245\353\133\263\305\136\140\052\061
\240\257\067\350\040\072\237\250\062\054\014\314\011\035\323\236
\216\135\274\114\230\356\305\032\150\173\354\123\246\351\024\065
\243\337\315\200\237\014\110\373\034\364\361\277\112\270\372\325
\214\161\112\307\037\255\376\101\232\263\203\135\362\204\126\357
\245\127\103\316\051\255\214\253\125\277\304\373\133\001\335\043
\041\241\130\000\216\303\320\152\023\355\023\343\022\053\200\334
\147\346\225\262\315\036\042\156\052\370\101\324\362\312\024\007
\215\212\125\022\306\151\365\270\206\150\057\123\136\260\322\252
\041\301\230\346\060\343\147\125\307\233\156\254\031\250\125\246
\105\006\320\043\072\333\353\145\135\052\021\021\360\073\117\312
\155\364\064\304\161\344\377\000\132\366\134\256\043\140\205\163
\361\344\020\261\045\256\325\222\273\023\301\014\340\071\332\264
\071\127\265\253\065\252\162\041\073\203\065\347\061\337\172\041
\156\270\062\010\175\035\062\221\025\112\142\162\317\343\167\241
\274\325\021\033\166\001\147\010\340\101\013\303\353\025\156\370
\244\031\331\242\253\257\342\047\122\126\053\002\212\054\024\044
\371\277\102\002\277\046\310\306\217\340\156\070\175\123\055\345
\355\230\263\225\143\150\177\371\065\364\337\210\305\140\065\222
\300\174\151\034\141\225\026\320\353\336\013\257\076\004\020\105
\145\130\120\070\257\110\362\131\266\026\362\074\015\220\002\306
\160\056\001\255\074\025\327\002\003\001\000\001\243\102\060\100
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001
\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001
\006\060\035\006\003\125\035\016\004\026\004\024\355\347\157\166
\132\277\140\354\111\133\306\245\167\273\162\026\161\233\304\075
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\003
\202\002\001\000\221\337\200\077\103\011\176\161\302\367\353\263
\210\217\341\121\262\274\075\165\371\050\135\310\274\231\233\173
\135\252\345\312\341\012\367\350\262\323\237\335\147\061\176\272
\001\252\307\152\101\073\220\324\010\134\262\140\152\220\360\310
\316\003\142\371\213\355\373\156\052\334\006\115\074\051\017\211
\026\212\130\114\110\017\350\204\141\352\074\162\246\167\344\102
\256\210\243\103\130\171\176\256\312\245\123\015\251\075\160\275

\040\031\141\244\154\070\374\103\062\341\301\107\377\370\354\361
\021\042\062\226\234\302\366\133\151\226\173\040\014\103\101\232
\133\366\131\031\210\336\125\210\067\121\013\170\134\012\036\243
\102\375\307\235\210\017\300\362\170\002\044\124\223\257\211\207
\210\311\112\200\035\352\320\156\076\141\056\066\273\065\016\047
\226\375\146\064\073\141\162\163\361\026\134\107\006\124\111\000
\172\130\022\260\012\357\205\375\261\270\063\165\152\223\034\022
\346\140\136\157\035\177\311\037\043\313\204\141\237\036\202\104
\371\137\255\142\125\044\232\122\230\355\121\347\241\176\227\072
\346\057\037\021\332\123\200\054\205\236\253\065\020\333\042\137
\152\305\136\227\123\362\062\002\011\060\243\130\360\015\001\325
\162\306\261\174\151\173\303\365\066\105\314\141\156\136\114\224
\305\136\256\350\016\136\213\277\367\315\340\355\241\016\033\063
\356\124\030\376\017\276\357\176\204\153\103\343\160\230\333\135
\165\262\015\131\007\205\025\043\071\326\361\337\251\046\017\326
\110\307\263\246\042\365\063\067\132\225\107\237\173\272\030\025
\157\377\326\024\144\203\111\322\012\147\041\333\017\065\143\140
\050\042\343\261\225\203\315\205\246\335\057\017\347\147\122\156
\273\057\205\174\365\112\163\347\305\076\300\275\041\022\005\077
\374\267\003\111\002\133\310\045\346\342\124\070\365\171\207\214
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\345\167\122\364\003\034\110\246\120\137\210\040\060\156\362\202
\103\253\075\227\204\347\123\373\041\301\117\017\042\232\206\270
\131\052\366\107\075\031\210\055\350\205\341\236\354\205\010\152
\261\154\064\311\035\354\110\053\073\170\355\146\304\216\171\151
\203\336\177\214
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL
 CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "QuoVadis Root CA 2 G3"
Issuer: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM
Serial Number:44:57:34:24:5b:81:89:9b:35:f2:ce:b8:2b:3b:5b:a7:26:f0:75:28
Subject: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM
Not Valid Before: Thu Jan 12 18:59:32 2012
Not Valid After : Sun Jan 12 18:59:32 2042
Fingerprint (SHA-256):
8F:E4:FB:0A:F9:3A:4D:0D:67:DB:0B:EB:B2:3E:37:C7:1B:F3:25:DC:BC:DD:24:0E:A0:4D:AF:58:B4:7E:18:40
Fingerprint (SHA1): 09:3C:61:F3:8B:8B:DC:7D:55:DF:75:38:02:05:00:E1:25:F5:C8:36
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 2 G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL

```
\011\074\141\363\213\213\334\175\125\337\165\070\002\005\000\341
\045\365\310\066
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\257\014\206\156\277\100\055\177\013\076\022\120\272\022\075\006
END
CKA_ISSUER
 MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\062\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\104\127\064\044\133\201\211\233\065\362\316\270\053\073
\133\247\046\360\165\050
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "QuoVadis Root CA 3 G3"
#
# Issuer: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
# Serial Number:2e:f5:9b:02:28:a7:db:7a:ff:d5:a3:a9:ee:bd:03:a0:cf:12:6a:1d
# Subject: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 20:26:32 2012
# Not Valid
 After : Sun Jan 12 20:26:32 2042
# Fingerprint (SHA-256):
88:EF:81:DE:20:2E:B0:18:45:2E:43:F8:64:72:5C:EA:5F:BD:1F:C2:D9:D2:05:73:07:09:C5:D8:B8:69:0F:46
# Fingerprint (SHA1): 48:12:BD:92:3C:A8:C4:39:06:E7:30:6D:27:96:E6:A4:CF:22:2E:7D
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 3 G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\063\040\107\063
END
```

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\063\040\107\063
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\024\056\365\233\002\050\247\333\172\377\325\243\251\356\275
\003\240\317\022\152\035
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\140\060\202\003\110\240\003\002\001\002\002\024\056
\365\233\002\050\247\333\172\377\325\243\251\356\275\003\240\317
\022\152\035\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\060\110\061\013\060\011\006\003\125\004\006\023\002\102
\115\061\031\060\027\006\003\125\004\012\023\020\121\165\157\126
\141\144\151\163\040\114\151\155\151\164\145\144\061\036\060\034
\006\003\125\004\003\023\025\121\165\157\126\141\144\151\163\040
\122\157\157\164\040\103\101\040\063\040\107\063\060\036\027\015
\061\062\060\061\061\062\062\060\062\066\063\062\132\027\015\064
\062\060\061\061\062\062\060\062\066\063\062\132\060\110\061\013
\060\011\006\003\125\004\006\023\002\102\115\061\031\060\027\006
\003\125\004\012\023\020\121\165\157\126\141\144\151\163\040\114
\151\155\151\164\145\144\061\036\060\034\006\003\125\004\003\023
\025\121\165\157\126\141\144\151\163\040\122\157\157\164\040\103
\101\040\063\040\107\063\060\202\002\042\060\015\006\011\052\206
\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202
\002\012\002\202\002\001\000\263\313\016\020\147\216\352\024\227
\247\062\052\012\126\066\177\150\114\307\263\157\072\043\024\221
\377\031\177\245\312\254\356\263\166\235\172\351\213\033\253\153
\061\333\372\013\123\114\257\305\245\032\171\074\212\114\377\254
\337\045\336\116\331\202\062\013\104\336\312\333\214\254\243\156
\026\203\073\246\144\113\062\211\373\026\026\070\176\353\103\342
\323\164\112\302\142\012\163\012\335\111\263\127\322\260\012\205
\235\161\074\336\243\313\300\062\363\001\071\040\103\033\065\321
\123\263\261\356\305\223\151\202\076\026\265\050\106\241\336\352
\211\011\355\103\270\005\106\212\206\365\131\107\276\033\157\001
\041\020\271\375\251\322\050\312\020\071\011\312\023\066\317\234
\255\255\100\164\171\053\002\077\064\377\372\040\151\175\323\356
\141\365\272\263\347\060\320\067\043\206\162\141\105\051\110\131
\150\157\167\246\056\201\276\007\115\157\257\316\304\105\023\221
\024\160\006\217\037\237\370\207\151\261\016\357\303\211\031\353
\352\034\141\374\172\154\212\334\326\003\013\236\046\272\022\335
\324\124\071\253\046\243\063\352\165\201\332\055\315\017\117\344
\003\321\357\025\227\033\153\220\305\002\220\223\146\002\041\261

\107\336\213\232\112\200\271\125\217\265\242\057\300\326\063\147
\332\176\304\247\264\004\104\353\107\373\346\130\271\367\014\360
\173\053\261\300\160\051\303\100\142\055\073\110\151\334\043\074
\110\353\173\011\171\251\155\332\250\060\230\317\200\162\003\210
\246\133\106\256\162\171\174\010\003\041\145\256\267\341\034\245
\261\052\242\061\336\146\004\367\300\164\350\161\336\377\075\131
\314\226\046\022\213\205\225\127\032\253\153\165\013\104\075\021
\050\074\173\141\267\342\217\147\117\345\354\074\114\140\200\151
\127\070\036\001\133\215\125\350\307\337\300\314\167\043\064\111
\165\174\366\230\021\353\055\336\355\101\056\024\005\002\177\340
\376\040\353\065\347\021\254\042\316\127\075\336\311\060\155\020
\003\205\315\361\377\214\026\265\301\262\076\210\154\140\177\220
\117\225\367\366\055\255\001\071\007\004\372\165\200\175\277\111
\120\355\357\311\304\174\034\353\200\176\333\266\320\335\023\376
\311\323\234\327\262\227\251\002\003\001\000\001\243\102\060\100
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001
\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001
\006\060\035\006\003\125\035\016\004\026\004\024\306\027\320\274
\250\352\002\103\362\033\006\231\135\053\220\040\271\327\234\344
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\003
\202\002\001\000\064\141\331\126\265\022\207\125\115\335\243\065
\061\106\273\244\007\162\274\137\141\142\350\245\373\013\067\261
\074\266\263\372\051\235\177\002\365\244\311\250\223\267\172\161
\050\151\217\163\341\122\220\332\325\276\072\345\267\166\152\126
\200\041\337\135\346\351\072\236\345\076\366\242\151\307\052\012
\260\030\107\334\040\160\175\122\243\076\131\174\301\272\311\310
\025\100\141\312\162\326\160\254\322\267\360\034\344\206\051\360
\316\357\150\143\320\265\040\212\025\141\232\176\206\230\264\311
\302\166\373\314\272\060\026\314\243\141\306\164\023\345\153\357
\243\025\352\003\376\023\213\144\344\323\301\322\350\204\373\111
\321\020\115\171\146\353\252\375\364\215\061\036\160\024\255\334
\336\147\023\114\201\025\141\274\267\331\221\167\161\031\201\140
\273\360\130\245\265\234\013\367\217\042\125\047\300\113\001\155
\073\231\015\324\035\233\143\147\057\320\356\015\312\146\274\224
\117\246\255\355\374\356\143\254\127\077\145\045\317\262\206\217
\320\010\377\270\166\024\156\336\345\047\354\253\170\265\123\271
\266\077\350\040\371\322\250\276\141\106\312\207\214\204\363\371
\361\240\150\233\042\036\201\046\233\020\004\221\161\300\006\037
\334\240\323\271\126\247\343\230\055\177\203\235\337\214\053\234
\062\216\062\224\360\001\074\042\052\237\103\302\056\303\230\071
\007\070\173\374\136\000\102\037\363\062\046\171\203\204\366\345
\360\301\121\022\300\013\036\004\043\014\124\245\114\057\111\305
\112\321\266\156\140\015\153\374\153\213\205\044\144\267\211\016
\253\045\107\133\074\317\176\111\275\307\351\012\306\332\367\176
\016\027\010\323\110\227\320\161\222\360\017\071\076\064\152\034
\175\330\362\042\256\273\151\364\063\264\246\110\125\321\017\016
\046\350\354\266\013\055\247\205\065\315\375\131\310\237\321\315
\076\132\051\064\271\075\204\316\261\145\324\131\221\221\126\165

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\041\301\167\236\371\172\341\140\235\323\255\004\030\364\174\353
\136\223\217\123\112\042\051\370\110\053\076\115\206\254\133\177
\313\006\231\131\140\330\130\145\225\215\104\321\367\177\176\047
\177\175\256\200\365\007\114\266\076\234\161\124\231\004\113\375
\130\371\230\364
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER
 CK_BBOOL CK_FALSE

# Trust for "QuoVadis Root CA 3 G3"
# Issuer: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
# Serial Number:2e:f5:9b:02:28:a7:db:7a:ff:d5:a3:a9:ee:bd:03:a0:cf:12:6a:1d
# Subject: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 20:26:32 2012
# Not Valid After : Sun Jan 12 20:26:32 2042
# Fingerprint (SHA-256):
88:EF:81:DE:20:2E:B0:18:45:2E:43:F8:64:72:5C:EA:5F:BD:1F:C2:D9:D2:05:73:07:09:C5:D8:B8:69:0F:46
# Fingerprint (SHA1): 48:12:BD:92:3C:A8:C4:39:06:E7:30:6D:27:96:E6:A4:CF:22:2E:7D
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 3 G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\110\022\275\222\074\250\304\071\006\347\060\155\047\226\346\244
\317\042\056\175
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\337\175\271\255\124\157\150\241\337\211\127\003\227\103\260\327
END
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\063\040\107\063
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\024\056\365\233\002\050\247\333\172\377\325\243\251\356\275
\003\240\317\022\152\035
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
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CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "DigiCert Assured ID Root G2"
#
# Issuer: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Serial Number:0b:93:1c:3a:d6:39:67:ea:67:23:bf:c3:af:9a:f4:4b
# Subject: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00
 2038
# Fingerprint (SHA-256):
7D:05:EB:B6:82:33:9F:8C:94:51:EE:09:4E:EB:FE:FA:79:53:A1:14:ED:B2:F4:49:49:45:2F:AB:7D:2F:C1:85
# Fingerprint (SHA1): A1:4B:48:D9:43:EE:0A:0E:40:90:4F:3C:E0:A4:C0:91:93:51:5D:3F
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\107\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\107\062
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\013\223\034\072\326\071\147\352\147\043\277\303\257\232
\364\113
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\226\060\202\002\176\240\003\002\001\002\002\020\013
\223\034\072\326\071\147\352\147\043\277\303\257\232\364\113\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\145
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\061\013\060\011\006\003\125\004\006\023\002\125\123\061\025\060
\023\006\003\125\004\012\023\014\104\151\147\151\103\145\162\164
\040\111\156\143\061\031\060\027\006\003\125\004\013\023\020\167
\167\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061
\044\060\042\006\003\125\004\003\023\033\104\151\147\151\103\145
\162\164\040\101\163\163\165\162\145\144\040\111\104\040\122\157
\157\164\040\107\062\060\036\027\015\061\063\060\070\060\061\061
\062\060\060\060\060\132\027\015\063\070\060\061\061\065\061\062
\060\060\060\060\132\060\145\061\013\060\011\006\003\125\004\006
\023\002\125\123\061\025\060\023\006\003\125\004\012\023\014\104
\151\147\151\103\145\162\164\040\111\156\143\061\031\060\027\006
\003\125\004\013\023\020\167\167\167\056\144\151\147\151\143\145
\162\164\056\143\157\155\061\044\060\042\006\003\125\004\003\023
\033\104\151\147\151\103\145\162\164\040\101\163\163\165\162\145
\144\040\111\104\040\122\157\157\164\040\107\062\060\202\001\042
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\001\017\000\060\202\001\012\002\202\001\001\000\331\347\050
\057\122\077\066\162\111\210\223\064\363\370\152\036\061\124\200
\237\255\124\101\265\107\337\226\250\324\257\200\055\271\012\317
\165\375\211\245\175\044\372\343\042\014\053\274\225\027\013\063
\277\031\115\101\006\220\000\275\014\115\020\376\007\265\347\034
\156\042\125\061\145\227\275\323\027\322\036\142\363\333\352\154
\120\214\077\204\014\226\317\267\313\003\340\312\155\241\024\114
\033\211\335\355\000\260\122\174\257\221\154\261\070\023\321\351
\022\010\300\000\260\034\053\021\332\167\160\066\233\256\316\171
\207\334\202\160\346\011\164\160\125\151\257\243\150\237\277\335
\266\171\263\362\235\160\051\125\364\253\377\225\141\363\311\100
\157\035\321\276\223\273\323\210\052\273\235\277\162\132\126\161
\073\077\324\363\321\012\376\050\357\243\356\331\231\257\003\323
\217\140\267\362\222\241\261\275\211\211\037\060\315\303\246\056
\142\063\256\026\002\167\104\132\347\201\012\074\247\104\056\171
\270\077\004\274\134\240\207\341\033\257\121\216\315\354\054\372
\370\376\155\360\072\174\252\213\344\147\225\061\215\002\003\001
\000\001\243\102\060\100\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\001\001\377\060\016\006\003\125\035\017\001\001
\377\004\004\003\002\001\206\060\035\006\003\125\035\016\004\026
\004\024\316\303\112\271\231\125\362\270\333\140\277\251\176\275
\126\265\227\066\247\326\060\015\006\011\052\206\110\206\367\015
\001\001\013\005\000\003\202\001\001\000\312\245\125\214\343\310
\101\156\151\047\247\165\021\357\074\206\066\157\322\235\306\170
\070\035\151\226\242\222\151\056\070\154\233\175\004\324\211\245
\261\061\067\212\311\041\314\253\154\315\213\034\232\326\277\110
\322\062\146\301\212\300\363\057\072\357\300\343\324\221\206\321
\120\343\003\333\163\167\157\112\071\123\355\336\046\307\265\175
\257\053\102\321\165\142\343\112\053\002\307\120\113\340\151\342
\226\154\016\104\146\020\104\217\255\005\353\370\171\254\246\033
\350\067\064\235\123\311\141\252\242\122\257\112\160\026\206\302
\072\310\261\023\160\066\330\317\356\364\012\064\325\133\114\375

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\007\234\242\272\331\001\162\134\363\115\301\335\016\261\034\015
\304\143\276\255\364\024\373\211\354\242\101\016\114\314\310\127
\100\320\156\003\252\315\014\216\211\231\231\154\360\074\060\257
\070\337\157\274\243\276\051\040\047\253\164\377\023\042\170\336
\227\122\125\036\203\265\124\040\003\356\256\300\117\126\336\067
\314\303\177\252\004\047\273\323\167\270\142\333\027\174\234\050
\042\023\163\154\317\046\365\212\051\347
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "DigiCert Assured ID Root G2"
# Issuer: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Serial Number:0b:93:1c:3a:d6:39:67:ea:67:23:bf:c3:af:9a:f4:4b
# Subject: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):
7D:05:EB:B6:82:33:9F:8C:94:51:EE:09:4E:EB:FE:FA:79:53:A1:14:ED:B2:F4:49:49:45:2F:AB:7D:2F:C1:85
# Fingerprint (SHA1): A1:4B:48:D9:43:EE:0A:0E:40:90:4F:3C:E0:A4:C0:91:93:51:5D:3F
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL
 CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\241\113\110\331\103\356\012\016\100\220\117\074\340\244\300\221
\223\121\135\077
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\222\070\271\370\143\044\202\145\054\127\063\346\376\201\217\235
END
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\013\223\034\072\326\071\147\352\147\043\277\303\257\232
\364\113
END
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CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST
 CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "DigiCert Assured ID Root G3"
#
# Issuer: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Serial Number:0b:a1:5a:fa:1d:df:a0:b5:49:44:af:cd:24:a0:6c:ec
# Subject: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):
7E:37:CB:8B:4C:47:09:0C:AB:36:55:1B:A6:F4:5D:B8:40:68:0F:BA:16:6A:95:2D:B1:00:71:7F:43:05:3F:C2
# Fingerprint (SHA1): F5:17:A2:4F:9A:48:C6:C9:F8:A2:00:26:9F:DC:0F:48:2C:AB:30:89
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\107\063
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\013\241\132\372\035\337\240\265\111\104\257\315\044\240
\154\354
END
CKA_VALUE MULTILINE_OCTAL
```

\060\202\002\106\060\202\001\315\240\003\002\001\002\002\020\013
\241\132\372\035\337\240\265\111\104\257\315\044\240\154\354\060
\012\006\010\052\206\110\316\075\004\003\003\060\145\061\013\060
\011\006\003\125\004\006\023\002\125\123\061\025\060\023\006\003
\125\004\012\023\014\104\151\147\151\103\145\162\164\040\111\156
\143\061\031\060\027\006\003\125\004\013\023\020\167\167\167\056
\144\151\147\151\143\145\162\164\056\143\157\155\061\044\060\042
\006\003\125\004\003\023\033\104\151\147\151\103\145\162\164\040
\101\163\163\165\162\145\144\040\111\104\040\122\157\157\164\040
\107\063\060\036\027\015\061\063\060\070\060\061\061\062\060\060
\060\060\132\027\015\063\070\060\061\061\065\061\062\060\060\060
\060\132\060\145\061\013\060\011\006\003\125\004\006\023\002\125
\123\061\025\060\023\006\003\125\004\012\023\014\104\151\147\151
\103\145\162\164\040\111\156\143\061\031\060\027\006\003\125\004
\013\023\020\167\167\167\056\144\151\147\151\143\145\162\164\056
\143\157\155\061\044\060\042\006\003\125\004\003\023\033\104\151
\147\151\103\145\162\164\040\101\163\163\165\162\145\144\040\111
\104\040\122\157\157\164\040\107\063\060\166\060\020\006\007\052
\206\110\316\075\002\001\006\005\053\201\004\000\042\003\142\000
\004\031\347\274\254\104\145\355\315\270\077\130\373\215\261\127
\251\104\055\005\025\362\357\013\377\020\164\237\265\142\122\137
\146\176\037\345\334\033\105\171\013\314\306\123\012\235\215\135
\002\331\251\131\336\002\132\366\225\052\016\215\070\112\212\111
\306\274\306\003\070\007\137\125\332\176\011\156\342\177\136\320
\105\040\017\131\166\020\326\240\044\360\055\336\066\362\154\051
\071\243\102\060\100\060\017\006\003\125\035\023\001\001\377\004
\005\060\003\001\001\377\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\206\060\035\006\003\125\035\016\004\026\004
\024\313\320\275\251\341\230\005\121\241\115\067\242\203\171\316
\215\035\052\344\204\060\012\006\010\052\206\110\316\075\004\003
\003\003\147\000\060\144\002\060\045\244\201\105\002\153\022\113
\165\164\117\310\043\343\160\362\165\162\336\174\211\360\317\221
\162\141\236\136\020\222\131\126\271\203\307\020\347\070\351\130
\046\066\175\325\344\064\206\071\002\060\174\066\123\360\060\345
\142\143\072\231\342\266\243\073\233\064\372\036\332\020\222\161
\136\221\023\247\335\244\156\222\314\062\326\365\041\146\307\057
\352\226\143\152\145\105\222\225\001\264
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "DigiCert Assured ID Root G3"
Issuer: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
Serial Number:0b:a1:5a:fa:1d:df:a0:b5:49:44:af:cd:24:a0:6c:ec
Subject: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
Not Valid Before: Thu Aug 01 12:00:00 2013

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# Not Valid After : Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):
7E:37:CB:8B:4C:47:09:0C:AB:36:55:1B:A6:F4:5D:B8:40:68:0F:BA:16:6A:95:2D:B1:00:71:7F:43:05:3F:C2
# Fingerprint
 (SHA1): F5:17:A2:4F:9A:48:C6:C9:F8:A2:00:26:9F:DC:0F:48:2C:AB:30:89
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\365\027\242\117\232\110\306\311\370\242\000\046\237\334\017\110
\054\253\060\211
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\174\177\145\061\014\201\337\215\272\076\231\342\134\255\156\373
END
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\013\241\132\372\035\337\240\265\111\104\257\315\044\240
\154\354
END
CKA_TRUST_SERVER_AUTH
 CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "DigiCert Global Root G2"
#
# Issuer: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Serial Number:03:3a:f1:e6:a7:11:a9:a0:bb:28:64:b1:1d:09:fa:e5
# Subject: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):
CB:3C:CB:B7:60:31:E5:E0:13:8F:8D:D3:9A:23:F9:DE:47:FF:C3:5E:43:C1:14:4C:EA:27:D4:6A:5A:B1:CB:5F
# Fingerprint (SHA1): DF:3C:24:F9:BF:D6:66:76:1B:26:80:73:FE:06:D1:CC:8D:4F:82:A4
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
```

CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root G2"
CKA_CERTIFICATE_TYPE
 CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\107\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\003\072\361\346\247\021\251\240\273\050\144\261\035\011
\372\345
END
CKA_VALUE
 MULTILINE_OCTAL
\060\202\003\216\060\202\002\166\240\003\002\001\002\002\020\003
\072\361\346\247\021\251\240\273\050\144\261\035\011\372\345\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\141
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\025\060
\023\006\003\125\004\012\023\014\104\151\147\151\103\145\162\164
\040\111\156\143\061\031\060\027\006\003\125\004\013\023\020\167
\167\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061
\040\060\036\006\003\125\004\003\023\027\104\151\147\151\103\145
\162\164\040\107\154\157\142\141\154\040\122\157\157\164\040\107
\062\060\036\027\015\061\063\060\070\060\061\061\062\060\060\060
\060\132\027\015\063\070\060\061\061\065\061\062\060\060\060\060
\132\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103
\145\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013
\023\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143
\157\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147
\151\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157

\164\040\107\062\060\202\001\042\060\015\006\011\052\206\110\206
\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012
\002\202\001\001\000\273\067\315\064\334\173\153\311\262\150\220
\255\112\165\377\106\272\041\012\010\215\365\031\124\311\373\210
\333\363\256\362\072\211\221\074\172\346\253\006\032\153\317\254
\055\350\136\011\044\104\272\142\232\176\326\243\250\176\340\124
\165\040\005\254\120\267\234\143\032\154\060\334\332\037\031\261
\327\036\336\375\327\340\313\224\203\067\256\354\037\103\116\335
\173\054\322\275\056\245\057\344\251\270\255\072\324\231\244\266
\045\351\233\153\000\140\222\140\377\117\041\111\030\367\147\220
\253\141\006\234\217\362\272\351\264\351\222\062\153\265\363\127
\350\135\033\315\214\035\253\225\004\225\111\363\065\055\226\343
\111\155\335\167\343\373\111\113\264\254\125\007\251\217\225\263
\264\043\273\114\155\105\360\366\251\262\225\060\264\375\114\125
\214\047\112\127\024\174\202\235\315\163\222\323\026\112\006\014
\214\120\321\217\036\011\276\027\241\346\041\312\375\203\345\020
\274\203\245\012\304\147\050\366\163\024\024\075\106\166\303\207
\024\211\041\064\115\257\017\105\014\246\111\241\272\273\234\305
\261\063\203\051\205\002\003\001\000\001\243\102\060\100\060\017
\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060
\016\006\003\125\035\017\001\001\377\004\004\003\002\001\206\060
\035\006\003\125\035\016\004\026\004\024\116\042\124\040\030\225
\346\343\156\346\017\372\372\271\022\355\006\027\217\071\060\015
\006\011\052\206\110\206\367\015\001\001\013\005\000\003\202\001
\001\000\140\147\050\224\157\016\110\143\353\061\335\352\147\030
\325\211\175\074\305\213\112\177\351\276\333\053\027\337\260\137
\163\167\052\062\023\071\201\147\102\204\043\362\105\147\065\354
\210\277\370\217\260\141\014\064\244\256\040\114\204\306\333\370
\065\341\166\331\337\246\102\273\307\104\010\206\177\066\164\044
\132\332\154\015\024\131\065\275\362\111\335\266\037\311\263\015
\107\052\075\231\057\273\134\273\265\324\040\341\231\137\123\106
\025\333\150\233\360\363\060\325\076\061\342\215\204\236\343\212
\332\332\226\076\065\023\245\137\360\371\160\120\160\107\101\021
\127\031\116\300\217\256\006\304\225\023\027\057\033\045\237\165
\362\261\216\231\241\157\023\261\101\161\376\210\052\310\117\020
\040\125\327\363\024\105\345\340\104\364\352\207\225\062\223\016
\376\123\106\372\054\235\377\213\042\271\113\331\011\105\244\336
\244\270\232\130\335\033\175\122\237\216\131\103\210\201\244\236
\046\325\157\255\335\015\306\067\175\355\003\222\033\345\167\137
\166\356\074\215\304\135\126\133\242\331\146\156\263\065\067\345
\062\266
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "DigiCert Global Root G2"

```
# Issuer: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert
 Inc,C=US
# Serial Number:03:3a:f1:e6:a7:11:a9:a0:bb:28:64:b1:1d:09:fa:e5
# Subject: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):
CB:3C:CB:B7:60:31:E5:E0:13:8F:8D:D3:9A:23:F9:DE:47:FF:C3:5E:43:C1:14:4C:EA:27:D4:6A:5A:B1:CB:5F
# Fingerprint (SHA1): DF:3C:24:F9:BF:D6:66:76:1B:26:80:73:FE:06:D1:CC:8D:4F:82:A4
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\337\074\044\371\277\326\146\166\033\046\200\163\376\006\321\314
\215\117\202\244
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\344\246\212\310\124\254\122\102\106\012\375\162\110\033\052\104
END
CKA_ISSUER MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\107\062
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\003\072\361\346\247\021\251\240\273\050\144\261\035\011
\372\345
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "DigiCert Global Root G3"
#
# Issuer: CN=DigiCert Global Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Serial Number:05:55:56:bc:f2:5e:a4:35:35:c3:a4:0f:d5:ab:45:72
# Subject: CN=DigiCert Global Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
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```
# Fingerprint (SHA-256):
 31:AD:66:48:F8:10:41:38:C7:38:F3:9E:A4:32:01:33:39:3E:3A:18:CC:02:29:6E:F9:7C:2A:C9:EF:67:31:D0
# Fingerprint (SHA1): 7E:04:DE:89:6A:3E:66:6D:00:E6:87:D3:3F:FA:D9:3B:E8:3D:34:9E
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\107\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\107\063
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\005\125\126\274\362\136\244\065\065\303\244\017\325\253
\105\162
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\077\060\202\001\305\240\003\002\001\002\002\020\005
\125\126\274\362\136\244\065\065\303\244\017\325\253\105\162\060
\012\006\010\052\206\110\316\075\004\003\003\060\141\061\013\060
\011\006\003\125\004\006\023\002\125\123\061\025\060\023\006\003
\125\004\012\023\014\104\151\147\151\103\145\162\164\040\111\156
\143\061\031\060\027\006\003\125\004\013\023\020\167\167\167\056
\144\151\147\151\143\145\162\164\056\143\157\155\061\040\060\036
\006\003\125\004\003\023\027\104\151\147\151\103\145\162\164\040
\107\154\157\142\141\154\040\122\157\157\164\040\107\063\060\036
\027\015\061\063\060\070\060\061\061\062\060\060\060\060\132\027
\015\063\070\060\061\061\065\061\062\060\060\060\060\132\060\141
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\025\060
\023\006\003\125\004\012\023\014\104\151\147\151\103\145\162\164
\040\111\156\143\061\031\060\027\006\003\125\004\013\023\020\167
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\167\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061
\040\060\036\006\003\125\004\003\023\027\104\151\147\151\103\145
\162\164\040\107\154\157\142\141\154\040\122\157\157\164\040\107
\063\060\166\060\020\006\007\052\206\110\316\075\002\001\006\005
\053\201\004\000\042\003\142\000\004\335\247\331\273\212\270\013
\373\013\177\041\322\360\276\276\163\363\063\135\032\274\064\352
\336\306\233\274\320\225\366\360\314\320\013\272\141\133\121\106
\176\236\055\237\356\216\143\014\027\354\007\160\365\317\204\056
\100\203\234\350\077\101\155\073\255\323\244\024\131\066\170\235
\003\103\356\020\023\154\162\336\256\210\247\241\153\265\103\316
\147\334\043\377\003\034\243\342\076\243\102\060\100\060\017\006
\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060\016
\006\003\125\035\017\001\001\377\004\004\003\002\001\206\060\035
\006\003\125\035\016\004\026\004\024\263\333\110\244\371\241\305
\330\256\066\101\314\021\143\151\142\051\274\113\306\060\012\006
\010\052\206\110\316\075\004\003\003\003\150\000\060\145\002\061
\000\255\274\362\154\077\022\112\321\055\071\303\012\011\227\163
\364\210\066\214\210\047\273\346\210\215\120\205\247\143\371\236
\062\336\146\223\017\361\314\261\011\217\335\154\253\372\153\177
\240\002\060\071\146\133\302\144\215\270\236\120\334\250\325\111
\242\355\307\334\321\111\177\027\001\270\310\206\217\116\214\210
\053\250\232\251\212\305\321\000\275\370\124\342\232\345\133\174
\263\047\027
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "DigiCert Global Root G3"
Issuer: CN=DigiCert Global Root G3,OU=www.digicert.com,O=DigiCert
 Inc,C=US
Serial Number:05:55:56:bc:f2:5e:a4:35:35:c3:a4:0f:d5:ab:45:72
Subject: CN=DigiCert Global Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
Not Valid Before: Thu Aug 01 12:00:00 2013
Not Valid After : Fri Jan 15 12:00:00 2038
Fingerprint (SHA-256):
31:AD:66:48:F8:10:41:38:C7:38:F3:9E:A4:32:01:33:39:3E:3A:18:CC:02:29:6E:F9:7C:2A:C9:EF:67:31:D0
Fingerprint (SHA1): 7E:04:DE:89:6A:3E:66:6D:00:E6:87:D3:3F:FA:D9:3B:E8:3D:34:9E
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\176\004\336\211\152\076\146\155\000\346\207\323\077\372\331\073
\350\075\064\236
END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\365\135\244\120\245\373\050\176\036\017\015\314\226\127\126\312
END
CKA_ISSUER MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\107\063
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\005\125\126\274\362\136\244\065\065\303\244\017\325\253
\105\162
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "DigiCert Trusted Root G4"
#
# Issuer: CN=DigiCert Trusted Root G4,OU=www.digicert.com,O=DigiCert Inc,C=US
# Serial Number:05:9b:1b:57:9e:8e:21:32:e2:39:07:bd:a7:77:75:5c
# Subject: CN=DigiCert Trusted Root G4,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
# Fingerprint
 (SHA-256):
55:2F:7B:DC:F1:A7:AF:9E:6C:E6:72:01:7F:4F:12:AB:F7:72:40:C7:8E:76:1A:C2:03:D1:D9:D2:0A:C8:99:88
# Fingerprint (SHA1): DD:FB:16:CD:49:31:C9:73:A2:03:7D:3F:C8:3A:4D:7D:77:5D:05:E4
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Trusted Root G4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\142\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\041\060\037\006\003\125\004\003\023\030\104\151\147\151
\103\145\162\164\040\124\162\165\163\164\145\144\040\122\157\157
\164\040\107\064
```

END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\142\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\041\060\037\006\003\125\004\003\023\030\104\151\147\151
\103\145\162\164\040\124\162\165\163\164\145\144\040\122\157\157
\164\040\107\064
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\005\233\033\127\236\216\041\062\342\071\007\275\247\167
\165\134
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\220\060\202\003\170\240\003\002\001\002\002\020\005
\233\033\127\236\216\041\062\342\071\007\275\247\167\165\134\060
\015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\142
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\025\060
\023\006\003\125\004\012\023\014\104\151\147\151\103\145\162\164
\040\111\156\143\061\031\060\027\006\003\125\004\013\023\020\167
\167\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061
\041\060\037\006\003\125\004\003\023\030\104\151\147\151\103\145
\162\164\040\124\162\165\163\164\145\144\040\122\157\157\164\040
\107\064\060\036\027\015\061\063\060\070\060\061\061\062\060\060
\060\060\132\027\015\063\070\060\061\061\065\061\062\060\060\060
\060\132\060\142\061\013\060\011\006\003\125\004\006\023\002\125
\123\061\025\060\023\006\003\125\004\012\023\014\104\151\147\151
\103\145\162\164\040\111\156\143\061\031\060\027\006\003\125\004
\013\023\020\167\167\167\056\144\151\147\151\143\145\162\164\056
\143\157\155\061\041\060\037\006\003\125\004\003\023\030\104\151
\147\151\103\145\162\164\040\124\162\165\163\164\145\144\040\122
\157\157\164\040\107\064\060\202\002\042\060\015\006\011\052\206
\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202
\002\012\002\202\002\001\000\277\346\220\163\150\336\273\344\135
\112\074\060\042\060\151\063\354\302\247\045\056\311\041\075\362
\212\330\131\302\341\051\247\075\130\253\166\232\315\256\173\033
\204\015\304\060\037\363\033\244\070\026\353\126\306\227\155\035
\253\262\171\362\312\021\322\344\137\326\005\074\122\017\122\037
\306\236\025\245\176\276\237\251\127\026\131\125\162\257\150\223
\160\302\262\272\165\231\152\163\062\224\321\020\104\020\056\337
\202\363\007\204\346\164\073\155\161\342\055\014\033\356\040\325
\311\040\035\143\051\055\316\354\136\116\310\223\370\041\141\233
\064\353\005\306\136\354\133\032\274\353\311\317\315\254\064\100
\137\261\172\146\356\167\310\110\250\146\127\127\237\124\130\216
\014\053\267\117\247\060\331\126\356\312\173\135\343\255\311\117

\136\345\065\347\061\313\332\223\136\334\216\217\200\332\266\221
\230\100\220\171\303\170\307\266\261\304\265\152\030\070\003\020
\215\330\324\067\244\056\005\175\210\365\202\076\020\221\160\253
\125\202\101\062\327\333\004\163\052\156\221\001\174\041\114\324
\274\256\033\003\165\135\170\146\331\072\061\104\232\063\100\277
\010\327\132\111\244\302\346\251\240\147\335\244\047\274\241\117
\071\265\021\130\027\367\044\134\106\217\144\367\301\151\210\166
\230\166\075\131\135\102\166\207\211\227\151\172\110\360\340\242
\022\033\146\232\164\312\336\113\036\347\016\143\256\346\324\357
\222\222\072\236\075\334\000\344\105\045\211\266\232\104\031\053
\176\300\224\264\322\141\155\353\063\331\305\337\113\004\000\314
\175\034\225\303\217\367\041\262\262\021\267\273\177\362\325\214
\160\054\101\140\252\261\143\030\104\225\032\166\142\176\366\200
\260\373\350\144\246\063\321\211\007\341\275\267\346\103\244\030
\270\246\167\001\341\017\224\014\041\035\262\124\051\045\211\154
\345\016\122\121\107\164\276\046\254\266\101\165\336\172\254\137
\215\077\311\274\323\101\021\022\133\345\020\120\353\061\305\312
\162\026\042\011\337\174\114\165\077\143\354\041\137\304\040\121
\153\157\261\253\206\213\117\302\326\105\137\235\040\374\241\036
\305\300\217\242\261\176\012\046\231\365\344\151\057\230\035\055
\365\331\251\262\035\345\033\002\003\001\000\001\243\102\060\100
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001
\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001
\206\060\035\006\003\125\035\016\004\026\004\024\354\327\343\202
\322\161\135\144\114\337\056\147\077\347\272\230\256\034\017\117
\060\015\006\011\052\206\110\206\367\015\001\001\014\005\000\003
\202\002\001\000\273\141\331\175\251\154\276\027\304\221\033\303
\241\242\000\215\343\144\150\017\126\317\167\256\160\371\375\232
\112\231\271\311\170\134\014\014\137\344\346\024\051\126\013\066
\111\135\104\143\340\255\234\226\030\146\033\043\015\075\171\351
\155\153\326\124\370\322\074\301\103\100\256\035\120\365\122\374
\220\073\273\230\231\151\153\307\301\247\250\150\244\047\334\235
\371\047\256\060\205\271\366\147\115\072\076\217\131\071\042\123
\104\353\310\135\003\312\355\120\172\175\142\041\012\200\310\163
\146\321\240\005\140\137\350\245\264\247\257\250\367\155\065\234
\174\132\212\326\242\070\231\363\170\213\364\115\322\040\013\336
\004\356\214\233\107\201\162\015\300\024\062\357\060\131\056\256
\340\161\362\126\344\152\227\157\222\120\155\226\215\150\172\232
\262\066\024\172\006\362\044\271\011\021\120\327\010\261\270\211
\172\204\043\141\102\051\345\243\315\242\040\101\327\321\234\144
\331\352\046\241\213\024\327\114\031\262\120\101\161\075\077\115
\160\043\206\014\112\334\201\322\314\062\224\204\015\010\011\227
\034\117\300\356\153\040\164\060\322\340\071\064\020\205\041\025
\001\010\350\125\062\336\161\111\331\050\027\120\115\346\276\115
\321\165\254\320\312\373\101\270\103\245\252\323\303\005\104\117
\054\066\233\342\372\342\105\270\043\123\154\006\157\147\125\177
\106\265\114\077\156\050\132\171\046\322\244\250\142\227\322\036
\342\355\112\213\274\033\375\107\112\015\337\147\146\176\262\133

\101\320\073\344\364\073\364\004\143\351\357\302\124\000\121\240
\212\052\311\316\170\314\325\352\207\004\030\263\316\257\111\210
\257\363\222\231\266\263\346\141\017\322\205\000\347\120\032\344
\033\225\235\031\241\271\234\261\233\261\000\036\357\320\017\117
\102\154\311\012\274\356\103\372\072\161\245\310\115\046\245\065
\375\211\135\274\205\142\035\062\322\240\053\124\355\232\127\301
\333\372\020\317\031\267\213\112\033\217\001\266\047\225\123\350
\266\211\155\133\274\150\324\043\350\213\121\242\126\371\360\246
\200\240\326\036\263\274\017\017\123\165\051\252\352\023\167\344
\336\214\201\041\255\007\020\107\021\255\207\075\007\321\165\274
\317\363\146\176
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "DigiCert Trusted Root G4"
Issuer: CN=DigiCert Trusted Root G4,OU=www.digicert.com,O=DigiCert Inc,C=US
Serial Number:05:9b:1b:57:9e:8e:21:32:e2:39:07:bd:a7:77:75:5c
Subject: CN=DigiCert Trusted Root G4,OU=www.digicert.com,O=DigiCert Inc,C=US
Not Valid Before: Thu Aug 01 12:00:00 2013
Not Valid After : Fri Jan 15 12:00:00 2038
Fingerprint (SHA-256):
55:2F:7B:DC:F1:A7:AF:9E:6C:E6:72:01:7F:4F:12:AB:F7:72:40:C7:8E:76:1A:C2:03:D1:D9:D2:0A:C8:99:88
Fingerprint (SHA1): DD:FB:16:CD:49:31:C9:73:A2:03:7D:3F:C8:3A:4D:7D:77:5D:05:E4
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN
CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Trusted Root G4"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\335\373\026\315\111\061\311\163\242\003\175\077\310\072\115\175
\167\135\005\344
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\170\362\374\252\140\037\057\264\353\311\067\272\123\056\165\111
END
CKA_ISSUER MULTILINE_OCTAL
\060\142\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\041\060\037\006\003\125\004\003\023\030\104\151\147\151
\103\145\162\164\040\124\162\165\163\164\145\144\040\122\157\157
\164\040\107\064
END

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CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\005\233\033\127\236\216\041\062\342\071\007\275\247\167
\165\134
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING
 CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "COMODO RSA Certification Authority"
#
# Issuer: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater
Manchester,C=GB
# Serial Number:4c:aa:f9:ca:db:63:6f:e0:1f:f7:4e:d8:5b:03:86:9d
# Subject: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater
Manchester,C=GB
# Not Valid Before: Tue Jan 19 00:00:00 2010
# Not Valid After : Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):
52:F0:E1:C4:E5:8E:C6:29:29:1B:60:31:7F:07:46:71:B8:5D:7E:A8:0D:5B:07:27:34:63:53:4B:32:B4:02:34
# Fingerprint (SHA1): AF:E5:D2:44:A8:D1:19:42:30:FF:47:9F:E2:F8:97:BB:CD:7A:8C:B4
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO RSA Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\205\061\013\060\011\006\003\125\004\006\023\002\107\102
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\040\103\101\040\114\151\155\151\164\145\144\061\053\060\051\006
\003\125\004\003\023\042\103\117\115\117\104\117\040\122\123\101
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\205\061\013\060\011\006\003\125\004\006\023\002\107\102
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117
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\040\103\101\040\114\151\155\151\164\145\144\061\053\060\051\006
\003\125\004\003\023\042\103\117\115\117\104\117\040\122\123\101
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\114\252\371\312\333\143\157\340\037\367\116\330\133\003
\206\235
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\330\060\202\003\300\240\003\002\001\002\002\020\114
\252\371\312\333\143\157\340\037\367\116\330\133\003\206\235\060
\015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\201
\205\061\013\060\011\006\003\125\004\006\023\002\107\102\061\033
\060\031\006\003\125\004\010\023\022\107\162\145\141\164\145\162
\040\115\141\156\143\150\145\163\164\145\162\061\020\060\016\006
\003\125\004\007\023\007\123\141\154\146\157\162\144\061\032\060
\030\006\003\125\004\012\023\021\103\117\115\117\104\117\040\103
\101\040\114\151\155\151\164\145\144\061\053\060\051\006\003\125
\004\003\023\042\103\117\115\117\104\117\040\122\123\101\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164
\150\157\162\151\164\171\060\036\027\015\061\060\060\061\061\071
\060\060\060\060\060\060\132\027\015\063\070\060\061\061\070\062
\063\065\071\065\071\132\060\201\205\061\013\060\011\006\003\125
\004\006\023\002\107\102\061\033\060\031\006\003\125\004\010\023
\022\107\162\145\141\164\145\162\040\115\141\156\143\150\145\163
\164\145\162\061\020\060\016\006\003\125\004\007\023\007\123\141
\154\146\157\162\144\061\032\060\030\006\003\125\004\012\023\021
\103\117\115\117\104\117\040\103\101\040\114\151\155\151\164\145
\144\061\053\060\051\006\003\125\004\003\023\042\103\117\115\117
\104\117\040\122\123\101\040\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\060\202
\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005
\000\003\202\002\017\000\060\202\002\012\002\202\002\001\000\221
\350\124\222\322\012\126\261\254\015\044\335\305\317\104\147\164
\231\053\067\243\175\043\160\000\161\274\123\337\304\372\052\022
\217\113\177\020\126\275\237\160\162\267\141\177\311\113\017\027
\247\075\343\260\004\141\356\377\021\227\307\364\206\076\012\372
\076\134\371\223\346\064\172\331\024\153\347\234\263\205\240\202
\172\166\257\161\220\327\354\375\015\372\234\154\372\337\260\202
\364\024\176\371\276\304\246\057\117\177\231\177\265\374\147\103
\162\275\014\000\326\211\353\153\054\323\355\217\230\034\024\253
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\375\352\301\274\154\266\213\363\016\215\232\344\233\154\151\231
\370\170\110\060\105\325\255\341\015\074\105\140\374\062\226\121
\047\274\147\303\312\056\266\153\352\106\307\307\040\240\261\037
\145\336\110\010\272\244\116\251\362\203\106\067\204\353\350\314

\201\110\103\147\116\162\052\233\134\275\114\033\050\212\134\042
\173\264\253\230\331\356\340\121\203\303\011\106\116\155\076\231
\372\225\027\332\174\063\127\101\074\215\121\355\013\266\134\257
\054\143\032\337\127\310\077\274\351\135\304\233\257\105\231\342
\243\132\044\264\272\251\126\075\317\157\252\377\111\130\276\360
\250\377\364\270\255\351\067\373\272\270\364\013\072\371\350\103
\102\036\211\330\204\313\023\361\331\273\341\211\140\270\214\050
\126\254\024\035\234\012\347\161\353\317\016\335\075\251\226\241
\110\275\074\367\257\265\015\042\114\300\021\201\354\126\073\366
\323\242\342\133\267\262\004\042\122\225\200\223\151\350\216\114
\145\361\221\003\055\160\164\002\352\213\147\025\051\151\122\002
\273\327\337\120\152\125\106\277\240\243\050\141\177\160\320\303
\242\252\054\041\252\107\316\050\234\006\105\166\277\202\030\047
\264\325\256\264\313\120\346\153\364\114\206\161\060\351\246\337
\026\206\340\330\377\100\335\373\320\102\210\177\243\063\072\056
\134\036\101\021\201\143\316\030\161\153\053\354\246\212\267\061
\134\072\152\107\340\303\171\131\326\040\032\257\362\152\230\252
\162\274\127\112\322\113\235\273\020\374\260\114\101\345\355\035
\075\136\050\235\234\314\277\263\121\332\247\107\345\204\123\002
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\026\004\024\273\257\176\002\075\372\246\361\074\204\216\255\356
\070\230\354\331\062\062\324\060\016\006\003\125\035\017\001\001
\377\004\004\003\002\001\006\060\017\006\003\125\035\023\001\001
\377\004\005\060\003\001\001\377\060\015\006\011\052\206\110\206
\367\015\001\001\014\005\000\003\202\002\001\000\012\361\325\106
\204\267\256\121\273\154\262\115\101\024\000\223\114\234\313\345
\300\124\317\240\045\216\002\371\375\260\242\015\365\040\230\074
\023\055\254\126\242\260\326\176\021\222\351\056\272\236\056\232
\162\261\275\031\104\154\141\065\242\232\264\026\022\151\132\214
\341\327\076\244\032\350\057\003\364\256\141\035\020\033\052\244
\213\172\305\376\005\246\341\300\326\310\376\236\256\217\053\272
\075\231\370\330\163\011\130\106\156\246\234\364\327\047\323\225
\332\067\203\162\034\323\163\340\242\107\231\003\070\135\325\111
\171\000\051\034\307\354\233\040\034\007\044\151\127\170\262\071
\374\072\204\240\265\234\174\215\277\056\223\142\047\267\071\332
\027\030\256\275\074\011\150\377\204\233\074\325\326\013\003\343
\127\236\024\367\321\353\117\310\275\207\043\267\266\111\103\171
\205\134\272\353\222\013\241\306\350\150\250\114\026\261\032\231
\012\350\123\054\222\273\241\011\030\165\014\145\250\173\313\043
\267\032\302\050\205\303\033\377\320\053\142\357\244\173\011\221
\230\147\214\024\001\315\150\006\152\143\041\165\003\200\210\212
\156\201\306\205\362\251\244\055\347\364\245\044\020\107\203\312
\315\364\215\171\130\261\006\233\347\032\052\331\235\001\327\224
\175\355\003\112\312\360\333\350\251\001\076\365\126\231\311\036
\216\111\075\273\345\011\271\340\117\111\222\075\026\202\100\314
\314\131\306\346\072\355\022\056\151\074\154\225\261\375\252\035
\173\177\206\276\036\016\062\106\373\373\023\217\165\177\114\213
\113\106\143\376\000\064\100\160\301\303\271\241\335\246\160\342

\004\263\101\274\351\200\221\352\144\234\172\341\042\003\251\234
\156\157\016\145\117\154\207\207\136\363\156\240\371\165\245\233
\100\350\123\262\047\235\112\271\300\167\041\215\377\207\362\336
\274\214\357\027\337\267\111\013\321\362\156\060\013\032\016\116
\166\355\021\374\365\351\126\262\175\277\307\155\012\223\214\245
\320\300\266\035\276\072\116\224\242\327\156\154\013\302\212\174
\372\040\363\304\344\345\315\015\250\313\221\222\261\174\205\354
\265\024\151\146\016\202\347\315\316\310\055\246\121\177\041\301
\065\123\205\006\112\135\237\255\273\033\137\164
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "COMODO RSA Certification Authority"
Issuer: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
Serial Number:4c:aa:f9:ca:db:63:6f:e0:1f:f7:4e:d8:5b:03:86:9d
Subject: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
Not Valid Before: Tue Jan 19 00:00:00 2010
Not Valid After : Mon Jan 18 23:59:59 2038
Fingerprint (SHA-256): 52:F0:E1:C4:E5:8E:C6:29:29:1B:60:31:7F:07:46:71:B8:5D:7E:A8:0D:5B:07:27:34:63:53:4B:32:B4:02:34
Fingerprint (SHA1): AF:E5:D2:44:A8:D1:19:42:30:FF:47:9F:E2:F8:97:BB:CD:7A:8C:B4

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO RSA Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\257\345\322\104\250\321\031\102\060\377\107\237\342\370\227\273
\315\172\214\264
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\033\061\260\161\100\066\314\024\066\221\255\304\076\375\354\030
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\205\061\013\060\011\006\003\125\004\006\023\002\107\102
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\040\103\101\040\114\151\155\151\164\145\144\061\053\060\051\006
\003\125\004\003\023\042\103\117\115\117\104\117\040\122\123\101
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101

\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\114\252\371\312\333\143\157\340\037\367\116\330\133\003
\206\235
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "USERTrust RSA Certification Authority"
#
Issuer: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
Serial Number:01:fd:6d:30:fc:a3:ca:51:a8:1b:bc:64:0e:35:03:2d
Subject: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
Not Valid Before: Mon Feb 01 00:00:00 2010
Not Valid After : Mon Jan 18 23:59:59 2038
Fingerprint (SHA-256):
E7:93:C9:B0:2F:D8:AA:13:E2:1C:31:22:8A:CC:B0:81:19:64:3B:74:9C:89:89:64:B1:74:6D:46:C3:D4:CB:D2
#
Fingerprint (SHA1): 2B:8F:1B:57:33:0D:BB:A2:D0:7A:6C:51:F7:0E:E9:0D:DA:B9:AD:8E
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "USERTrust RSA Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\010\023\012\116\145\167\040\112
\145\162\163\145\171\061\024\060\022\006\003\125\004\007\023\013
\112\145\162\163\145\171\040\103\151\164\171\061\036\060\034\006
\003\125\004\012\023\025\124\150\145\040\125\123\105\122\124\122
\125\123\124\040\116\145\164\167\157\162\153\061\056\060\054\006
\003\125\004\003\023\045\125\123\105\122\124\162\165\163\164\040
\122\123\101\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\010\023\012\116\145\167\040\112
\145\162\163\145\171\061\024\060\022\006\003\125\004\007\023\013

\112\145\162\163\145\171\040\103\151\164\171\061\036\060\034\006
\003\125\004\012\023\025\124\150\145\040\125\123\105\122\124\122
\125\123\124\040\116\145\164\167\157\162\153\061\056\060\054\006
\003\125\004\003\023\045\125\123\105\122\124\162\165\163\164\040
\122\123\101\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\001\375\155\060\374\243\312\121\250\033\274\144\016\065
\003\055
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\336\060\202\003\306\240\003\002\001\002\002\020\001
\375\155\060\374\243\312\121\250\033\274\144\016\065\003\055\060
\015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\201
\210\061\013\060\011\006\003\125\004\006\023\002\125\123\061\023
\060\021\006\003\125\004\010\023\012\116\145\167\040\112\145\162
\163\145\171\061\024\060\022\006\003\125\004\007\023\013\112\145
\162\163\145\171\040\103\151\164\171\061\036\060\034\006\003\125
\004\012\023\025\124\150\145\040\125\123\105\122\124\122\125\123
\124\040\116\145\164\167\157\162\153\061\056\060\054\006\003\125
\004\003\023\045\125\123\105\122\124\162\165\163\164\040\122\123
\101\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040
\101\165\164\150\157\162\151\164\171\060\036\027\015\061\060\060
\062\060\061\060\060\060\060\060\060\132\027\015\063\070\060\061
\061\070\062\063\065\071\065\071\132\060\201\210\061\013\060\011
\006\003\125\004\006\023\002\125\123\061\023\060\021\006\003\125
\004\010\023\012\116\145\167\040\112\145\162\163\145\171\061\024
\060\022\006\003\125\004\007\023\013\112\145\162\163\145\171\040
\103\151\164\171\061\036\060\034\006\003\125\004\012\023\025\124
\150\145\040\125\123\105\122\124\122\125\123\124\040\116\145\164
\167\157\162\153\061\056\060\054\006\003\125\004\003\023\045\125
\123\105\122\124\162\165\163\164\040\122\123\101\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171\060\202\002\042\060\015\006\011\052\206\110\206
\367\015\001\001\001\005\000\003\202\002\017\000\060\202\002\012
\002\202\002\001\000\200\022\145\027\066\016\303\333\010\263\320
\254\127\015\166\355\315\047\323\114\255\120\203\141\342\252\040
\115\011\055\144\011\334\316\211\237\314\075\251\354\366\317\301
\334\361\323\261\326\173\067\050\021\053\107\332\071\306\274\072
\031\264\137\246\275\175\235\243\143\102\266\166\362\251\073\053
\221\370\342\157\320\354\026\040\220\011\076\342\350\164\311\030
\264\221\324\142\144\333\177\243\006\361\210\030\152\220\042\074
\274\376\023\360\207\024\173\366\344\037\216\324\344\121\306\021
\147\106\010\121\313\206\024\124\077\274\063\376\176\154\234\377
\026\235\030\275\121\216\065\246\247\146\310\162\147\333\041\146
\261\324\233\170\003\300\120\072\350\314\360\334\274\236\114\376

\257\005\226\065\037\127\132\267\377\316\371\075\267\054\266\366
\124\335\310\347\022\072\115\256\114\212\267\134\232\264\267\040
\075\312\177\042\064\256\176\073\150\146\001\104\347\001\116\106
\123\233\063\140\367\224\276\123\067\220\163\103\363\062\303\123
\357\333\252\376\164\116\151\307\153\214\140\223\336\304\307\014
\337\341\062\256\314\223\073\121\170\225\147\213\356\075\126\376
\014\320\151\017\033\017\363\045\046\153\063\155\367\156\107\372
\163\103\345\176\016\245\146\261\051\174\062\204\143\125\211\304
\015\301\223\124\060\031\023\254\323\175\067\247\353\135\072\154
\065\134\333\101\327\022\332\251\111\013\337\330\200\212\011\223
\142\216\265\146\317\045\210\315\204\270\261\077\244\071\017\331
\002\236\353\022\114\225\174\363\153\005\251\136\026\203\314\270
\147\342\350\023\235\314\133\202\323\114\263\355\133\377\336\345
\163\254\043\073\055\000\277\065\125\164\011\111\330\111\130\032
\177\222\066\346\121\222\016\363\046\175\034\115\027\274\311\354
\103\046\320\277\101\137\100\251\104\104\364\231\347\127\207\236
\120\037\127\124\250\076\375\164\143\057\261\120\145\011\346\130
\102\056\103\032\114\264\360\045\107\131\372\004\036\223\324\046
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\355\357\057\202\017\002\003\001\000\001\243\102\060\100\060\035
\006\003\125\035\016\004\026\004\024\123\171\277\132\252\053\112
\317\124\200\341\330\233\300\235\362\262\003\146\313\060\016\006
\003\125\035\017\001\001\377\004\004\003\002\001\006\060\017\006
\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060\015
\006\011\052\206\110\206\367\015\001\001\014\005\000\003\202\002
\001\000\134\324\174\015\317\367\001\175\101\231\145\014\163\305
\122\237\313\370\317\231\006\177\033\332\103\025\237\236\002\125
\127\226\024\361\122\074\047\207\224\050\355\037\072\001\067\242
\166\374\123\120\300\204\233\306\153\116\272\214\041\117\242\216
\125\142\221\363\151\025\330\274\210\343\304\252\013\375\357\250
\351\113\125\052\006\040\155\125\170\051\031\356\137\060\134\113
\044\021\125\377\044\232\156\136\052\053\356\013\115\237\177\367
\001\070\224\024\225\103\007\011\373\140\251\356\034\253\022\214
\240\232\136\247\230\152\131\155\213\077\010\373\310\321\105\257
\030\025\144\220\022\017\163\050\056\305\342\044\116\374\130\354
\360\364\105\376\042\263\353\057\216\322\331\105\141\005\301\227
\157\250\166\162\217\213\214\066\257\277\015\005\316\161\215\346
\246\157\037\154\246\161\142\305\330\320\203\162\014\361\147\021
\211\014\234\023\114\162\064\337\274\325\161\337\252\161\335\341
\271\154\214\074\022\135\145\332\275\127\022\266\103\153\377\345
\336\115\146\021\121\317\231\256\354\027\266\350\161\221\214\336
\111\376\335\065\161\242\025\047\224\034\317\141\343\046\273\157
\243\147\045\041\135\346\335\035\013\056\150\033\073\202\257\354
\203\147\205\324\230\121\164\261\271\231\200\211\377\177\170\031
\134\171\112\140\056\222\100\256\114\067\052\054\311\307\142\310
\016\135\367\066\133\312\340\045\045\001\264\335\032\007\234\167

\000\077\320\334\325\354\075\324\372\273\077\314\205\326\157\177
\251\055\337\271\002\367\365\227\232\265\065\332\303\147\260\207
\112\251\050\236\043\216\377\134\047\153\341\260\117\363\007\356
\000\056\324\131\207\313\122\101\225\352\364\107\327\356\144\101
\125\174\215\131\002\225\335\142\235\302\271\356\132\050\164\204
\245\233\267\220\307\014\007\337\365\211\066\164\062\326\050\301
\260\260\013\340\234\114\303\034\326\374\343\151\265\107\106\201
\057\242\202\253\323\143\104\160\304\215\377\055\063\272\255\217
\173\265\160\210\256\076\031\317\100\050\330\374\310\220\273\135
\231\042\365\122\346\130\305\037\210\061\103\356\210\035\327\306
\216\074\103\152\035\247\030\336\175\075\026\361\142\371\312\220
\250\375
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "USERTrust RSA Certification
Authority"
Issuer: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New
Jersey,C=US
Serial Number:01:fd:6d:30:fc:a3:ca:51:a8:1b:bc:64:0e:35:03:2d
Subject: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New
Jersey,C=US
Not Valid Before: Mon Feb 01 00:00:00 2010
Not Valid After : Mon Jan 18 23:59:59 2038
Fingerprint (SHA-256):
E7:93:C9:B0:2F:D8:AA:13:E2:1C:31:22:8A:CC:B0:81:19:64:3B:74:9C:89:89:64:B1:74:6D:46:C3:D4:CB:D2
Fingerprint (SHA1): 2B:8F:1B:57:33:0D:BB:A2:D0:7A:6C:51:F7:0E:E9:0D:DA:B9:AD:8E
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "USERTrust RSA Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\053\217\033\127\063\015\273\242\320\172\154\121\367\016\351\015
\332\271\255\216
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\033\376\151\321\221\267\031\063\243\162\250\017\341\125\345\265
END
CKA_ISSUER
MULTILINE_OCTAL
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\010\023\012\116\145\167\040\112
\145\162\163\145\171\061\024\060\022\006\003\125\004\007\023\013
\112\145\162\163\145\171\040\103\151\164\171\061\036\060\034\006

\003\125\004\012\023\025\124\150\145\040\125\123\105\122\124\122
\125\123\124\040\116\145\164\167\157\162\153\061\056\060\054\006
\003\125\004\003\023\045\125\123\105\122\124\162\165\163\164\040
\122\123\101\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\001\375\155\060\374\243\312\121\250\033\274\144\016\065
\003\055
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "USERTrust ECC Certification Authority"
#
Issuer: CN=USERTrust
 ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
Serial Number:5c:8b:99:c5:5a:94:c5:d2:71:56:de:cd:89:80:cc:26
Subject: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New
Jersey,C=US
Not Valid Before: Mon Feb 01 00:00:00 2010
Not Valid After : Mon Jan 18 23:59:59 2038
Fingerprint (SHA-256):
4F:F4:60:D5:4B:9C:86:DA:BF:BC:FC:57:12:E0:40:0D:2B:ED:3F:BC:4D:4F:BD:AA:86:E0:6A:DC:D2:A9:AD:7A
Fingerprint (SHA1): D1:CB:CA:5D:B2:D5:2A:7F:69:3B:67:4D:E5:F0:5A:1D:0C:95:7D:F0
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "USERTrust ECC Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\010\023\012\116\145\167\040\112
\145\162\163\145\171\061\024\060\022\006\003\125\004\007\023\013
\112\145\162\163\145\171\040\103\151\164\171\061\036\060\034\006
\003\125\004\012\023\025\124\150\145\040\125\123\105\122\124\122
\125\123\124\040\116\145\164\167\157\162\153\061\056\060\054\006
\003\125\004\003\023\045\125\123\105\122\124\162\165\163\164\040
\105\103\103\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL

\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\010\023\012\116\145\167\040\112
\145\162\163\145\171\061\024\060\022\006\003\125\004\007\023\013
\112\145\162\163\145\171\040\103\151\164\171\061\036\060\034\006
\003\125\004\012\023\025\124\150\145\040\125\123\105\122\124\122
\125\123\124\040\116\145\164\167\157\162\153\061\056\060\054\006
\003\125\004\003\023\045\125\123\105\122\124\162\165\163\164\040
\105\103\103\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\134\213\231\305\132\224\305\322\161\126\336\315\211\200
\314\046
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\217\060\202\002\025\240\003\002\001\002\002\020\134
\213\231\305\132\224\305\322\161\126\336\315\211\200\314\046\060
\012\006\010\052\206\110\316\075\004\003\003\060\201\210\061\013
\060\011\006\003\125\004\006\023\002\125\123\061\023\060\021\006
\003\125\004\010\023\012\116\145\167\040\112\145\162\163\145\171
\061\024\060\022\006\003\125\004\007\023\013\112\145\162\163\145
\171\040\103\151\164\171\061\036\060\034\006\003\125\004\012\023
\025\124\150\145\040\125\123\105\122\124\122\125\123\124\040\116
\145\164\167\157\162\153\061\056\060\054\006\003\125\004\003\023
\045\125\123\105\122\124\162\165\163\164\040\105\103\103\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164
\150\157\162\151\164\171\060\036\027\015\061\060\060\062\060\061
\060\060\060\060\060\060\132\027\015\063\070\060\061\061\070\062
\063\065\071\065\071\132\060\201\210\061\013\060\011\006\003\125
\004\006\023\002\125\123\061\023\060\021\006\003\125\004\010\023
\012\116\145\167\040\112\145\162\163\145\171\061\024\060\022\006
\003\125\004\007\023\013\112\145\162\163\145\171\040\103\151\164
\171\061\036\060\034\006\003\125\004\012\023\025\124\150\145\040
\125\123\105\122\124\122\125\123\124\040\116\145\164\167\157\162
\153\061\056\060\054\006\003\125\004\003\023\045\125\123\105\122
\124\162\165\163\164\040\105\103\103\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171\060\166\060\020\006\007\052\206\110\316\075\002\001\006\005
\053\201\004\000\042\003\142\000\004\032\254\124\132\251\371\150
\043\347\172\325\044\157\123\306\132\330\113\253\306\325\266\321
\346\163\161\256\335\234\326\014\141\375\333\240\211\003\270\005
\024\354\127\316\356\135\077\342\041\263\316\367\324\212\171\340
\243\203\176\055\227\320\141\304\361\231\334\045\221\143\253\177
\060\243\264\160\342\307\241\063\234\363\277\056\134\123\261\137
\263\175\062\177\212\064\343\171\171\243\102\060\100\060\035\006
\003\125\035\016\004\026\004\024\072\341\011\206\324\317\031\302
\226\166\164\111\166\334\340\065\306\143\143\232\060\016\006\003

\125\035\017\001\001\377\004\004\003\002\001\006\060\017\006\003
\125\035\023\001\001\377\004\005\060\003\001\001\377\060\012\006
\010\052\206\110\316\075\004\003\003\003\150\000\060\145\002\060
\066\147\241\026\010\334\344\227\000\101\035\116\276\341\143\001
\317\073\252\102\021\144\240\235\224\071\002\021\171\134\173\035
\372\144\271\356\026\102\263\277\212\302\011\304\354\344\261\115
\002\061\000\351\052\141\107\214\122\112\113\116\030\160\366\326
\104\326\156\365\203\272\155\130\275\044\331\126\110\352\357\304
\242\106\201\210\152\072\106\321\251\233\115\311\141\332\321\135
\127\152\030
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "USERTrust ECC Certification
Authority"
Issuer: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New
Jersey,C=US
Serial Number:5c:8b:99:c5:5a:94:c5:d2:71:56:de:cd:89:80:cc:26
Subject: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New
Jersey,C=US
Not Valid Before: Mon Feb 01 00:00:00 2010
Not Valid After : Mon Jan 18 23:59:59 2038
Fingerprint (SHA-256):
4F:F4:60:D5:4B:9C:86:DA:BF:BC:FC:57:12:E0:40:0D:2B:ED:3F:BC:4D:4F:BD:AA:86:E0:6A:DC:D2:A9:AD:7A
Fingerprint (SHA1): D1:CB:CA:5D:B2:D5:2A:7F:69:3B:67:4D:E5:F0:5A:1D:0C:95:7D:F0
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "USERTrust ECC Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\321\313\312\135\262\325\052\177\151\073\147\115\345\360\132\035
\014\225\175\360
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\372\150\274\331\265\177\255\375\311\035\006\203\050\314\044\301
END
CKA_ISSUER
MULTILINE_OCTAL
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\010\023\012\116\145\167\040\112
\145\162\163\145\171\061\024\060\022\006\003\125\004\007\023\013
\112\145\162\163\145\171\040\103\151\164\171\061\036\060\034\006
\003\125\004\012\023\025\124\150\145\040\125\123\105\122\124\122
\125\123\124\040\116\145\164\167\157\162\153\061\056\060\054\006

```
\003\125\004\003\023\045\125\123\105\122\124\162\165\163\164\040
\105\103\103\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\134\213\231\305\132\224\305\322\161\126\336\315\211\200
\314\046
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "GlobalSign ECC Root CA - R5"
#
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign
 ECC Root CA - R5
# Serial Number:60:59:49:e0:26:2e:bb:55:f9:0a:77:8a:71:f9:4a:d8:6c
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5
# Not Valid Before: Tue Nov 13 00:00:00 2012
# Not Valid After : Tue Jan 19 03:14:07 2038
# Fingerprint (SHA-256):
17:9F:BC:14:8A:3D:D0:0F:D2:4E:A1:34:58:CC:43:BF:A7:F5:9C:81:82:D7:83:A5:13:F6:EB:EC:10:0C:89:24
# Fingerprint (SHA1): 1F:24:C6:30:CD:A4:18:EF:20:69:FF:AD:4F:DD:5F:46:3A:1B:69:AA
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign ECC Root CA - R5"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\120\061\044\060\042\006\003\125\004\013\023\033\107\154\157
\142\141\154\123\151\147\156\040\105\103\103\040\122\157\157\164
\040\103\101\040\055\040\122\065\061\023\060\021\006\003\125\004
\012\023\012\107\154\157\142\141\154\123\151\147\156\061\023\060
\021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151
\147\156
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\120\061\044\060\042\006\003\125\004\013\023\033\107\154\157
\142\141\154\123\151\147\156\040\105\103\103\040\122\157\157\164
\040\103\101\040\055\040\122\065\061\023\060\021\006\003\125\004
\012\023\012\107\154\157\142\141\154\123\151\147\156\061\023\060
\021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151
\147\156
```

END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\140\131\111\340\046\056\273\125\371\012\167\212\161\371
\112\330\154
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\036\060\202\001\244\240\003\002\001\002\002\021\140
\131\111\340\046\056\273\125\371\012\167\212\161\371\112\330\154
\060\012\006\010\052\206\110\316\075\004\003\003\060\120\061\044
\060\042\006\003\125\004\013\023\033\107\154\157\142\141\154\123
\151\147\156\040\105\103\103\040\122\157\157\164\040\103\101\040
\055\040\122\065\061\023\060\021\006\003\125\004\012\023\012\107
\154\157\142\141\154\123\151\147\156\061\023\060\021\006\003\125
\004\003\023\012\107\154\157\142\141\154\123\151\147\156\060\036
\027\015\061\062\061\061\061\063\060\060\060\060\060\060\132\027
\015\063\070\060\061\061\071\060\063\061\064\060\067\132\060\120
\061\044\060\042\006\003\125\004\013\023\033\107\154\157\142\141
\154\123\151\147\156\040\105\103\103\040\122\157\157\164\040\103
\101\040\055\040\122\065\061\023\060\021\006\003\125\004\012\023
\012\107\154\157\142\141\154\123\151\147\156\061\023\060\021\006
\003\125\004\003\023\012\107\154\157\142\141\154\123\151\147\156
\060\166\060\020\006\007\052\206\110\316\075\002\001\006\005\053
\201\004\000\042\003\142\000\004\107\105\016\226\373\175\135\277
\351\071\321\041\370\237\013\266\325\173\036\222\072\110\131\034
\360\142\061\055\300\172\050\376\032\247\134\263\266\314\227\347
\105\324\130\372\321\167\155\103\242\300\207\145\064\012\037\172
\335\353\074\063\241\305\235\115\244\157\101\225\070\177\311\036
\204\353\321\236\111\222\207\224\207\014\072\205\112\146\237\235
\131\223\115\227\141\006\206\112\243\102\060\100\060\016\006\003
\125\035\017\001\001\377\004\004\003\002\001\006\060\017\006\003
\125\035\023\001\001\377\004\005\060\003\001\001\377\060\035\006
\003\125\035\016\004\026\004\024\075\346\051\110\233\352\007\312
\041\104\112\046\336\156\336\322\203\320\237\131\060\012\006\010
\052\206\110\316\075\004\003\003\003\150\000\060\145\002\061\000
\345\151\022\311\156\333\306\061\272\011\101\341\227\370\373\375
\232\342\175\022\311\355\174\144\323\313\005\045\213\126\331\240
\347\136\135\116\013\203\234\133\166\051\240\011\046\041\152\142
\002\060\161\322\265\217\134\352\073\341\170\011\205\250\165\222
\073\310\134\375\110\357\015\164\042\250\010\342\156\305\111\316
\307\014\274\247\141\151\361\367\073\341\052\313\371\053\363\146
\220\067
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "GlobalSign ECC Root CA - R5"

```
#
 Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5
# Serial Number:60:59:49:e0:26:2e:bb:55:f9:0a:77:8a:71:f9:4a:d8:6c
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5
# Not Valid Before: Tue Nov 13 00:00:00 2012
# Not Valid After : Tue Jan 19 03:14:07 2038
# Fingerprint (SHA-256):
17:9F:BC:14:8A:3D:D0:0F:D2:4E:A1:34:58:CC:43:BF:A7:F5:9C:81:82:D7:83:A5:13:F6:EB:EC:10:0C:89:24
# Fingerprint (SHA1): 1F:24:C6:30:CD:A4:18:EF:20:69:FF:AD:4F:DD:5F:46:3A:1B:69:AA
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign ECC Root CA - R5"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\037\044\306\060\315\244\030\357\040\151\377\255\117\335\137\106
\072\033\151\252
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\237\255\073\034\002\036\212\272\027\164\070\201\014\242\274\010
END
CKA_ISSUER MULTILINE_OCTAL
\060\120\061\044\060\042\006\003\125\004\013\023\033\107\154\157
\142\141\154\123\151\147\156\040\105\103\103\040\122\157\157\164
\040\103\101\040\055\040\122\065\061\023\060\021\006\003\125\004
\012\023\012\107\154\157\142\141\154\123\151\147\156\061\023\060
\021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151
\147\156
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\021\140\131\111\340\046\056\273\125\371\012\167\212\161\371
\112\330\154
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Staat der Nederlanden Root CA - G3"
#
# Issuer: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL
# Serial Number: 10003001 (0x98a239)
# Subject: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL
# Not Valid Before: Thu Nov 14 11:28:42 2013
# Not Valid After : Mon Nov 13 23:00:00 2028
# Fingerprint (SHA-256):
```

3C:4F:B0:B9:5A:B8:B3:00:32:F4:32:B8:6F:53:5F:E1:72:C1:85:D0:FD:39:86:58:37:CF:36:18:7F:A6:F4:28
#
Fingerprint (SHA1): D8:EB:6B:41:51:92:59:E0:F3:E7:85:00:C0:3D:B6:88:97:C9:EE:FC
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Staat der Nederlanden Root CA - G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\036\060\034\006\003\125\004\012\014\025\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061
\053\060\051\006\003\125\004\003\014\042\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040
\122\157\157\164\040\103\101\040\055\040\107\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\036\060\034\006\003\125\004\012\014\025\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061
\053\060\051\006\003\125\004\003\014\042\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040
\122\157\157\164\040\103\101\040\055\040\107\063
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\004\000\230\242\071
END
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\060\202\005\164\060\202\003\134\240\003\002\001\002\002\004\000
\230\242\071\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\060\132\061\013\060\011\006\003\125\004\006\023\002\116
\114\061\036\060\034\006\003\125\004\012\014\025\123\164\141\141
\164\040\144\145\162\040\116\145\144\145\162\154\141\156\144\145
\156\061\053\060\051\006\003\125\004\003\014\042\123\164\141\141
\164\040\144\145\162\040\116\145\144\145\162\154\141\156\144\145
\156\040\122\157\157\164\040\103\101\040\055\040\107\063\060\036
\027\015\061\063\061\061\061\064\061\061\062\070\064\062\132\027
\015\062\070\061\061\061\063\062\063\060\060\060\060\132\060\132
\061\013\060\011\006\003\125\004\006\023\002\116\114\061\036\060
\034\006\003\125\004\012\014\025\123\164\141\141\164\040\144\145
\162\040\116\145\144\145\162\154\141\156\144\145\156\061\053\060
\051\006\003\125\004\003\014\042\123\164\141\141\164\040\144\145
\162\040\116\145\144\145\162\154\141\156\144\145\156\040\122\157
\157\164\040\103\101\040\055\040\107\063\060\202\002\042\060\015
\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\002

\017\000\060\202\002\012\002\202\002\001\000\276\062\242\124\017
\160\373\054\134\131\353\154\304\244\121\350\205\052\263\314\112
\064\362\260\137\363\016\307\034\075\123\036\210\010\150\330\157
\075\255\302\236\314\202\147\007\047\207\150\161\072\237\165\226
\042\106\005\260\355\255\307\133\236\052\336\234\374\072\306\225
\247\365\027\147\030\347\057\111\010\014\134\317\346\314\064\355
\170\373\120\261\334\153\062\360\242\376\266\074\344\354\132\227
\307\077\036\160\010\060\240\334\305\263\155\157\320\202\162\021
\253\322\201\150\131\202\027\267\170\222\140\372\314\336\077\204
\353\215\070\063\220\012\162\043\372\065\314\046\161\061\321\162
\050\222\331\133\043\155\146\265\155\007\102\353\246\063\316\222
\333\300\366\154\143\170\315\312\116\075\265\345\122\233\361\276
\073\346\124\140\260\146\036\011\253\007\376\124\211\021\102\321
\367\044\272\140\170\032\230\367\311\021\375\026\301\065\032\124
\165\357\103\323\345\256\116\316\347\173\303\306\116\141\121\113
\253\232\105\113\241\037\101\275\110\123\025\161\144\013\206\263
\345\056\276\316\244\033\301\051\204\242\265\313\010\043\166\103
\042\044\037\027\004\324\156\234\306\374\177\053\146\032\354\212
\345\326\317\115\365\143\011\267\025\071\326\173\254\353\343\174
\351\116\374\165\102\310\355\130\225\014\006\102\242\234\367\344
\160\263\337\162\157\132\067\100\211\330\205\244\327\361\013\336
\103\031\324\112\130\054\214\212\071\236\277\204\207\361\026\073
\066\014\351\323\264\312\154\031\101\122\011\241\035\260\152\277
\202\357\160\121\041\062\334\005\166\214\313\367\144\344\003\120
\257\214\221\147\253\305\362\356\130\330\336\276\367\347\061\317
\154\311\073\161\301\325\210\265\145\274\300\350\027\027\007\022
\265\134\322\253\040\223\264\346\202\203\160\066\305\315\243\215
\255\213\354\243\301\103\207\346\103\342\064\276\225\213\065\355
\007\071\332\250\035\172\237\066\236\022\260\014\145\022\220\025
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\016\132\107\266\357\227\141\165\117\331\376\307\262\035\324\355
\135\111\263\251\152\313\146\204\023\325\134\240\334\337\156\167
\006\321\161\165\310\127\157\257\017\167\133\002\003\001\000\001
\243\102\060\100\060\017\006\003\125\035\023\001\001\377\004\005
\060\003\001\001\377\060\016\006\003\125\035\017\001\001\377\004
\004\003\002\001\006\060\035\006\003\125\035\016\004\026\004\024
\124\255\372\307\222\127\256\312\065\234\056\022\373\344\272\135
\040\334\224\127\060\015\006\011\052\206\110\206\367\015\001\001
\013\005\000\003\202\002\001\000\060\231\235\005\062\310\136\016
\073\230\001\072\212\244\347\007\367\172\370\347\232\337\120\103
\123\227\052\075\312\074\107\230\056\341\025\173\361\222\363\141
\332\220\045\026\145\300\237\124\135\016\003\073\133\167\002\234
\204\266\015\230\137\064\335\073\143\302\303\050\201\302\234\051
\056\051\342\310\303\001\362\063\352\052\252\314\011\010\367\145
\147\306\315\337\323\266\053\247\275\314\321\016\160\137\270\043
\321\313\221\116\012\364\310\172\345\331\143\066\301\324\337\374
\042\227\367\140\135\352\051\057\130\262\275\130\275\215\226\117
\020\165\277\110\173\075\121\207\241\074\164\042\302\374\007\177

\200\334\304\254\376\152\301\160\060\260\351\216\151\342\054\151
\201\224\011\272\335\376\115\300\203\214\224\130\300\106\040\257
\234\037\002\370\065\125\111\057\106\324\300\360\240\226\002\017
\063\305\161\363\236\043\175\224\267\375\072\323\011\203\006\041
\375\140\075\256\062\300\322\356\215\246\360\347\264\202\174\012
\314\160\311\171\200\370\376\114\367\065\204\031\212\061\373\012
\331\327\177\233\360\242\232\153\303\005\112\355\101\140\024\060
\321\252\021\102\156\323\043\002\004\013\306\145\335\335\122\167
\332\201\153\262\250\372\001\070\271\226\352\052\154\147\227\211
\224\236\274\341\124\325\344\152\170\357\112\275\053\232\075\100
\176\306\300\165\322\156\373\150\060\354\354\213\235\371\111\065
\232\032\054\331\263\225\071\325\036\222\367\246\271\145\057\345
\075\155\072\110\114\010\334\344\050\022\050\276\175\065\134\352
\340\026\176\023\033\152\327\076\327\236\374\055\165\262\301\024
\325\043\003\333\133\157\013\076\170\057\015\336\063\215\026\267
\110\347\203\232\201\017\173\301\103\115\125\004\027\070\112\121
\325\131\242\211\164\323\237\276\036\113\327\306\155\267\210\044
\157\140\221\244\202\205\133\126\101\274\320\104\253\152\023\276
\321\054\130\267\022\063\130\262\067\143\334\023\365\224\035\077
\100\121\365\117\365\072\355\310\305\353\302\036\035\026\225\172
\307\176\102\161\223\156\113\025\267\060\337\252\355\127\205\110
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\367\200\173\041\147\047\060\131
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Staat der Nederlanden Root CA - G3"
Issuer: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL
Serial Number: 10003001 (0x98a239)
Subject: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL
Not Valid Before: Thu Nov 14 11:28:42 2013
Not Valid After : Mon Nov 13 23:00:00 2028
Fingerprint (SHA-256):
3C:4F:B0:B9:5A:B8:B3:00:32:F4:32:B8:6F:53:5F:E1:72:C1:85:D0:FD:39:86:58:37:CF:36:18:7F:A6:F4:28
Fingerprint (SHA1): D8:EB:6B:41:51:92:59:E0:F3:E7:85:00:C0:3D:B6:88:97:C9:EE:FC
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Staat der Nederlanden Root CA - G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\330\353\153\101\121\222\131\340\363\347\205\000\300\075\266\210
\227\311\356\374
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL

\013\106\147\007\333\020\057\031\214\065\120\140\321\013\364\067
END
CKA_ISSUER
 MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\036\060\034\006\003\125\004\012\014\025\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061
\053\060\051\006\003\125\004\003\014\042\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040
\122\157\157\164\040\103\101\040\055\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\000\230\242\071
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "IdenTrust Commercial Root CA 1"
#
Issuer: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US
Serial Number:0a:01:42:80:00:00:01:45:23:c8:44:b5:00:00:00:02
Subject: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US
Not Valid
 Before: Thu Jan 16 18:12:23 2014
Not Valid After : Mon Jan 16 18:12:23 2034
Fingerprint (SHA-256):
5D:56:49:9B:E4:D2:E0:8B:CF:CA:D0:8A:3E:38:72:3D:50:50:3B:DE:70:69:48:E4:2F:55:60:30:19:E5:28:AE
Fingerprint (SHA1): DF:71:7E:AA:4A:D9:4E:C9:55:84:99:60:2D:48:DE:5F:BC:F0:3A:25
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "IdenTrust Commercial Root CA 1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\112\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\111\144\145\156\124\162
\165\163\164\061\047\060\045\006\003\125\004\003\023\036\111\144
\145\156\124\162\165\163\164\040\103\157\155\155\145\162\143\151
\141\154\040\122\157\157\164\040\103\101\040\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
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\165\163\164\061\047\060\045\006\003\125\004\003\023\036\111\144
\145\156\124\162\165\163\164\040\103\157\155\155\145\162\143\151
\141\154\040\122\157\157\164\040\103\101\040\061
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
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CKA_VALUE MULTILINE_OCTAL
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\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\112
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\022\060
\020\006\003\125\004\012\023\011\111\144\145\156\124\162\165\163
\164\061\047\060\045\006\003\125\004\003\023\036\111\144\145\156
\124\162\165\163\164\040\103\157\155\155\145\162\143\151\141\154
\040\122\157\157\164\040\103\101\040\061\060\036\027\015\061\064
\060\061\061\066\061\070\061\062\062\063\132\027\015\063\064\060
\061\061\066\061\070\061\062\062\063\132\060\112\061\013\060\011
\006\003\125\004\006\023\002\125\123\061\022\060\020\006\003\125
\004\012\023\011\111\144\145\156\124\162\165\163\164\061\047\060
\045\006\003\125\004\003\023\036\111\144\145\156\124\162\165\163
\164\040\103\157\155\155\145\162\143\151\141\154\040\122\157\157
\164\040\103\101\040\061\060\202\002\042\060\015\006\011\052\206
\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202
\002\012\002\202\002\001\000\247\120\031\336\077\231\075\324\063
\106\361\157\121\141\202\262\251\117\217\147\211\135\204\331\123
\335\014\050\331\327\360\377\256\225\103\162\231\371\265\135\174
\212\301\102\341\061\120\164\321\201\015\174\315\233\041\253\103
\342\254\255\136\206\156\363\011\212\037\132\062\275\242\353\224
\371\350\134\012\354\377\230\322\257\161\263\264\123\237\116\207
\357\222\274\275\354\117\062\060\210\113\027\136\127\304\123\302
\366\002\227\215\331\142\053\277\044\037\142\215\337\303\270\051
\113\111\170\074\223\140\210\042\374\231\332\066\310\302\242\324
\054\124\000\147\065\156\163\277\002\130\360\244\335\345\260\242
\046\172\312\340\066\245\031\026\365\375\267\357\256\077\100\365
\155\132\004\375\316\064\312\044\334\164\043\033\135\063\023\022
\135\304\001\045\366\060\335\002\135\237\340\325\107\275\264\353
\033\241\273\111\111\330\237\133\002\363\212\344\044\220\344\142
\117\117\301\257\213\016\164\027\250\321\162\210\152\172\001\111
\314\264\106\171\306\027\261\332\230\036\007\131\372\165\041\205
\145\335\220\126\316\373\253\245\140\235\304\235\371\122\260\213
\275\207\371\217\053\043\012\043\166\073\367\063\341\311\000\363
\151\371\113\242\340\116\274\176\223\071\204\007\367\104\160\176
\376\007\132\345\261\254\321\030\314\362\065\345\111\111\010\312
\126\311\075\373\017\030\175\213\073\301\023\302\115\217\311\117
\016\067\351\037\241\016\152\337\142\056\313\065\006\121\171\054

\310\045\070\364\372\113\247\211\134\234\322\343\015\071\206\112
\164\174\325\131\207\302\077\116\014\134\122\364\075\367\122\202
\361\352\243\254\375\111\064\032\050\363\101\210\072\023\356\350
\336\377\231\035\137\272\313\350\036\362\271\120\140\300\061\323
\163\345\357\276\240\355\063\013\164\276\040\040\304\147\154\360
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\011\341\063\144\053\143\327\062\136\237\371\300\173\017\170\157
\227\274\223\232\371\234\022\220\170\172\200\207\025\327\162\164
\234\125\164\170\261\272\341\156\160\004\272\117\240\272\150\303
\173\377\061\360\163\075\075\224\052\261\013\101\016\240\376\115
\210\145\153\171\063\264\327\002\003\001\000\001\243\102\060\100
\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001
\377\060\035\006\003\125\035\016\004\026\004\024\355\104\031\300
\323\360\006\213\356\244\173\276\102\347\046\124\310\216\066\166
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\003
\202\002\001\000\015\256\220\062\366\246\113\174\104\166\031\141
\036\047\050\315\136\124\357\045\274\343\010\220\371\051\327\256
\150\010\341\224\000\130\357\056\056\176\123\122\214\266\134\007
\352\210\272\231\213\120\224\327\202\200\337\141\011\000\223\255
\015\024\346\316\301\362\067\224\170\260\137\234\263\242\163\270
\217\005\223\070\315\215\076\260\270\373\300\317\261\362\354\055
\055\033\314\354\252\232\263\252\140\202\033\055\073\303\204\075
\127\212\226\036\234\165\270\323\060\315\140\010\203\220\323\216
\124\361\115\146\300\135\164\003\100\243\356\205\176\302\037\167
\234\006\350\301\247\030\135\122\225\355\311\335\045\236\155\372
\251\355\243\072\064\320\131\173\332\355\120\363\065\277\355\353
\024\115\061\307\140\364\332\361\207\234\342\110\342\306\305\067
\373\006\020\372\165\131\146\061\107\051\332\166\232\034\351\202
\256\357\232\271\121\367\210\043\232\151\225\142\074\345\125\200
\066\327\124\002\377\361\271\135\316\324\043\157\330\105\204\112
\133\145\357\211\014\335\024\247\040\313\030\245\045\264\015\371
\001\360\242\322\364\000\310\164\216\241\052\110\216\145\333\023
\304\342\045\027\175\353\276\207\133\027\040\124\121\223\112\123
\003\013\354\135\312\063\355\142\375\105\307\057\133\334\130\240
\200\071\346\372\327\376\023\024\246\355\075\224\112\102\164\324
\303\167\131\163\315\217\106\276\125\070\357\372\350\221\062\352
\227\130\004\042\336\070\303\314\274\155\311\063\072\152\012\151
\077\240\310\352\162\217\214\143\206\043\275\155\074\226\236\225
\340\111\114\252\242\271\052\033\234\066\201\170\355\303\350\106
\342\046\131\104\165\036\331\165\211\121\315\020\204\235\141\140
\313\135\371\227\042\115\216\230\346\343\177\366\133\273\256\315
\312\112\201\153\136\013\363\121\341\164\053\351\176\047\247\331
\231\111\116\370\245\200\333\045\017\034\143\142\212\311\063\147
\153\074\020\203\306\255\336\250\315\026\216\215\360\007\067\161
\237\362\253\374\101\365\301\213\354\000\067\135\011\345\116\200
\357\372\261\134\070\006\245\033\112\341\334\070\055\074\334\253
\037\220\032\325\112\234\356\321\160\154\314\356\364\127\370\030

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\272\204\156\207
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER
 CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "IdenTrust Commercial Root CA 1"
# Issuer: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US
# Serial Number:0a:01:42:80:00:00:01:45:23:c8:44:b5:00:00:00:02
# Subject: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US
# Not Valid Before: Thu Jan 16 18:12:23 2014
# Not Valid After : Mon Jan 16 18:12:23 2034
# Fingerprint (SHA-256):
5D:56:49:9B:E4:D2:E0:8B:CF:CA:D0:8A:3E:38:72:3D:50:50:3B:DE:70:69:48:E4:2F:55:60:30:19:E5:28:AE
# Fingerprint (SHA1): DF:71:7E:AA:4A:D9:4E:C9:55:84:99:60:2D:48:DE:5F:BC:F0:3A:25
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "IdenTrust Commercial Root CA 1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\337\161\176\252\112\331\116\311\125\204\231\140\055\110\336\137
\274\360\072\045
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\263\076\167\163\165\356\240\323\343\176\111\143\111\131\273\307
END
CKA_ISSUER
 MULTILINE_OCTAL
\060\112\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\111\144\145\156\124\162
\165\163\164\061\047\060\045\006\003\125\004\003\023\036\111\144
\145\156\124\162\165\163\164\040\103\157\155\155\145\162\143\151
\141\154\040\122\157\157\164\040\103\101\040\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\012\001\102\200\000\000\001\105\043\310\104\265\000\000
\000\002
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "IdenTrust Public Sector Root CA 1"
```

```
#
# Issuer: CN=IdenTrust Public Sector Root CA 1,O=IdenTrust,C=US
# Serial Number:0a:01:42:80:00:00:01:45:23:cf:46:7c:00:00:00:02
# Subject: CN=IdenTrust Public Sector Root CA 1,O=IdenTrust,C=US
# Not Valid Before: Thu Jan 16 17:53:32 2014
# Not Valid
 After : Mon Jan 16 17:53:32 2034
# Fingerprint (SHA-256):
30:D0:89:5A:9A:44:8A:26:20:91:63:55:22:D1:F5:20:10:B5:86:7A:CA:E1:2C:78:EF:95:8F:D4:F4:38:9F:2F
# Fingerprint (SHA1): BA:29:41:60:77:98:3F:F4:F3:EF:F2:31:05:3B:2E:EA:6D:4D:45:FD
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "IdenTrust Public Sector Root CA 1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\111\144\145\156\124\162
\165\163\164\061\052\060\050\006\003\125\004\003\023\041\111\144
\145\156\124\162\165\163\164\040\120\165\142\154\151\143\040\123
\145\143\164\157\162\040\122\157\157\164\040\103\101\040\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\111\144\145\156\124\162
\165\163\164\061\052\060\050\006\003\125\004\003\023\041\111\144
\145\156\124\162\165\163\164\040\120\165\142\154\151\143\040\123
\145\143\164\157\162\040\122\157\157\164\040\103\101\040\061
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\012\001\102\200\000\000\001\105\043\317\106\174\000\000
\000\002
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\146\060\202\003\116\240\003\002\001\002\002\020\012
\001\102\200\000\000\001\105\043\317\106\174\000\000\000\002\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\115
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\022\060
\020\006\003\125\004\012\023\011\111\144\145\156\124\162\165\163
\164\061\052\060\050\006\003\125\004\003\023\041\111\144\145\156
\124\162\165\163\164\040\120\165\142\154\151\143\040\123\145\143
\164\157\162\040\122\157\157\164\040\103\101\040\061\060\036\027
\015\061\064\060\061\061\066\061\067\065\063\063\062\132\027\015
\063\064\060\061\061\066\061\067\065\063\063\062\132\060\115\061
\013\060\011\006\003\125\004\006\023\002\125\123\061\022\060\020
```

\006\003\125\004\012\023\011\111\144\145\156\124\162\165\163\164
\061\052\060\050\006\003\125\004\003\023\041\111\144\145\156\124
\162\165\163\164\040\120\165\142\154\151\143\040\123\145\143\164
\157\162\040\122\157\157\164\040\103\101\040\061\060\202\002\042
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\002\017\000\060\202\002\012\002\202\002\001\000\266\042\224
\374\244\110\257\350\107\153\012\373\047\166\344\362\077\212\073
\172\112\054\061\052\214\215\260\251\303\061\153\250\167\166\204
\046\266\254\201\102\015\010\353\125\130\273\172\370\274\145\175
\362\240\155\213\250\107\351\142\166\036\021\356\010\024\321\262
\104\026\364\352\320\372\036\057\136\333\313\163\101\256\274\000
\260\112\053\100\262\254\341\073\113\302\055\235\344\241\233\354
\032\072\036\360\010\263\320\344\044\065\007\237\234\264\311\122
\155\333\007\312\217\265\133\360\203\363\117\307\055\245\310\255
\313\225\040\244\061\050\127\130\132\344\215\033\232\253\236\015
\014\362\012\063\071\042\071\012\227\056\363\123\167\271\104\105
\375\204\313\066\040\201\131\055\232\157\155\110\110\141\312\114
\337\123\321\257\122\274\104\237\253\057\153\203\162\357\165\200
\332\006\063\033\135\310\332\143\306\115\315\254\146\061\315\321
\336\076\207\020\066\341\271\244\172\357\140\120\262\313\312\246
\126\340\067\257\253\064\023\071\045\350\071\146\344\230\172\252
\022\230\234\131\146\206\076\255\361\260\312\076\006\017\173\360
\021\113\067\240\104\155\173\313\250\214\161\364\325\265\221\066
\314\360\025\306\053\336\121\027\261\227\114\120\075\261\225\131
\174\005\175\055\041\325\000\277\001\147\242\136\173\246\134\362
\367\042\361\220\015\223\333\252\104\121\146\314\175\166\003\353
\152\250\052\070\031\227\166\015\153\212\141\371\274\366\356\166
\375\160\053\335\051\074\370\012\036\133\102\034\213\126\057\125
\033\034\241\056\265\307\026\346\370\252\074\222\216\151\266\001
\301\265\206\235\211\017\013\070\224\124\350\352\334\236\075\045
\274\123\046\355\325\253\071\252\305\100\114\124\253\262\264\331
\331\370\327\162\333\034\274\155\275\145\137\357\210\065\052\146
\057\356\366\263\145\360\063\215\174\230\101\151\106\017\103\034
\151\372\233\265\320\141\152\315\312\113\331\114\220\106\253\025
\131\241\107\124\051\056\203\050\137\034\302\242\253\162\027\000
\006\216\105\354\213\342\063\075\177\332\031\104\344\142\162\303
\337\042\306\362\126\324\335\137\225\162\355\155\137\367\110\003
\133\375\305\052\240\366\163\043\204\020\033\001\347\002\003\001
\000\001\243\102\060\100\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\006\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026
\004\024\343\161\340\236\330\247\102\331\333\161\221\153\224\223
\353\303\243\321\024\243\060\015\006\011\052\206\110\206\367\015
\001\001\013\005\000\003\202\002\001\000\107\372\335\012\260\021
\221\070\255\115\135\367\345\016\227\124\031\202\110\207\124\214
\252\144\231\330\132\376\210\001\305\130\245\231\261\043\124\043
\267\152\035\040\127\345\001\142\101\027\323\011\333\165\313\156
\124\220\165\376\032\237\201\012\302\335\327\367\011\320\133\162

\025\344\036\011\152\075\063\363\041\232\346\025\176\255\121\325
\015\020\355\175\102\300\217\356\300\232\010\325\101\326\134\016
\041\151\156\200\141\016\025\300\270\317\305\111\022\122\314\276
\072\314\324\056\070\005\336\065\375\037\157\270\200\150\230\075
\115\240\312\100\145\322\163\174\365\213\331\012\225\077\330\077
\043\155\032\321\052\044\031\331\205\263\027\357\170\156\251\130
\321\043\323\307\023\355\162\045\177\135\261\163\160\320\177\006
\227\011\204\051\200\141\035\372\136\377\163\254\240\343\211\270
\034\161\025\306\336\061\177\022\334\341\155\233\257\347\350\237
\165\170\114\253\106\073\232\316\277\005\030\135\115\025\074\026
\232\031\120\004\232\262\232\157\145\213\122\137\074\130\004\050
\045\300\146\141\061\176\271\340\165\271\032\250\201\326\162\027
\263\305\003\061\065\021\170\170\242\340\351\060\214\177\200\337
\130\337\074\272\047\226\342\200\064\155\343\230\323\144\047\254
\110\176\050\167\134\306\045\141\045\370\205\014\145\372\304\062
\057\245\230\005\344\370\013\147\026\026\306\202\270\062\031\371
\371\271\171\334\037\315\353\257\253\016\335\033\333\105\344\172
\347\002\342\225\135\374\151\360\123\151\141\225\165\171\013\136
\125\346\070\034\224\251\131\063\236\310\161\164\171\177\121\211
\266\310\152\270\060\310\152\070\303\156\236\341\067\026\352\005
\142\114\133\022\107\355\247\264\263\130\126\307\111\363\177\022
\150\011\061\161\360\155\370\116\107\373\326\205\356\305\130\100
\031\244\035\247\371\113\103\067\334\150\132\117\317\353\302\144
\164\336\264\025\331\364\124\124\032\057\034\327\227\161\124\220
\216\331\040\235\123\053\177\253\217\342\352\060\274\120\067\357
\361\107\265\175\174\054\004\354\150\235\264\111\104\020\364\162
\113\034\144\347\374\346\153\220\335\151\175\151\375\000\126\245
\267\254\266\255\267\312\076\001\357\234
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL
 CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "IdenTrust Public Sector Root CA 1"
Issuer: CN=IdenTrust Public Sector Root CA 1,O=IdenTrust,C=US
Serial Number:0a:01:42:80:00:00:01:45:23:cf:46:7c:00:00:00:02
Subject: CN=IdenTrust Public Sector Root CA 1,O=IdenTrust,C=US
Not Valid Before: Thu Jan 16 17:53:32 2014
Not Valid After : Mon Jan 16 17:53:32 2034
Fingerprint (SHA-256):
30:D0:89:5A:9A:44:8A:26:20:91:63:55:22:D1:F5:20:10:B5:86:7A:CA:E1:2C:78:EF:95:8F:D4:F4:38:9F:2F
Fingerprint (SHA1): BA:29:41:60:77:98:3F:F4:F3:EF:F2:31:05:3B:2E:EA:6D:4D:45:FD
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE

```
CKA_LABEL UTF8 "IdenTrust Public Sector Root CA 1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\272\051\101\140\167\230\077\364\363\357\362\061\005\073\056\352
\155\115\105\375
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\067\006\245\260\374\211\235\272\364\153\214\032\144\315\325\272
END
CKA_ISSUER
 MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\111\144\145\156\124\162
\165\163\164\061\052\060\050\006\003\125\004\003\023\041\111\144
\145\156\124\162\165\163\164\040\120\165\142\154\151\143\040\123
\145\143\164\157\162\040\122\157\157\164\040\103\101\040\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\012\001\102\200\000\000\001\105\043\317\106\174\000\000
\000\002
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Entrust Root Certification Authority - G2"
#
# Issuer: CN=Entrust Root Certification Authority - G2,OU="(c) 2009 Entrust, Inc. - for authorized use
only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Serial Number: 1246989352 (0x4a538c28)
#
 Subject: CN=Entrust Root Certification Authority - G2,OU="(c) 2009 Entrust, Inc. - for authorized use
only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Not Valid Before: Tue Jul 07 17:25:54 2009
# Not Valid After : Sat Dec 07 17:55:54 2030
# Fingerprint (SHA-256):
43:DF:57:74:B0:3E:7F:EF:5F:E4:0D:93:1A:7B:ED:F1:BB:2E:6B:42:73:8C:4E:6D:38:41:10:3D:3A:A7:F3:39
# Fingerprint (SHA1): 8C:F4:27:FD:79:0C:3A:D1:66:06:8D:E8:1E:57:EF:BB:93:22:72:D4
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\276\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
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\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162
\155\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051
\040\062\060\060\071\040\105\156\164\162\165\163\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060
\060\006\003\125\004\003\023\051\105\156\164\162\165\163\164\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107
\062
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\276\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162
\155\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051
\040\062\060\060\071\040\105\156\164\162\165\163\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060
\060\006\003\125\004\003\023\051\105\156\164\162\165\163\164\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107
\062
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\004\112\123\214\050
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\076\060\202\003\046\240\003\002\001\002\002\004\112
\123\214\050\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\060\201\276\061\013\060\011\006\003\125\004\006\023\002
\125\123\061\026\060\024\006\003\125\004\012\023\015\105\156\164
\162\165\163\164\054\040\111\156\143\056\061\050\060\046\006\003
\125\004\013\023\037\123\145\145\040\167\167\167\056\145\156\164
\162\165\163\164\056\156\145\164\057\154\145\147\141\154\055\164
\145\162\155\163\061\071\060\067\006\003\125\004\013\023\060\050
\143\051\040\062\060\060\071\040\105\156\164\162\165\163\164\054
\040\111\156\143\056\040\055\040\146\157\162\040\141\165\164\150
\157\162\151\172\145\144\040\165\163\145\040\157\156\154\171\061
\062\060\060\006\003\125\004\003\023\051\105\156\164\162\165\163
\164\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\055

\040\107\062\060\036\027\015\060\071\060\067\060\067\061\067\062
\065\065\064\132\027\015\063\060\061\062\060\067\061\067\065\065
\065\064\132\060\201\276\061\013\060\011\006\003\125\004\006\023
\002\125\123\061\026\060\024\006\003\125\004\012\023\015\105\156
\164\162\165\163\164\054\040\111\156\143\056\061\050\060\046\006
\003\125\004\013\023\037\123\145\145\040\167\167\167\056\145\156
\164\162\165\163\164\056\156\145\164\057\154\145\147\141\154\055
\164\145\162\155\163\061\071\060\067\006\003\125\004\013\023\060
\050\143\051\040\062\060\060\071\040\105\156\164\162\165\163\164
\054\040\111\156\143\056\040\055\040\146\157\162\040\141\165\164
\150\157\162\151\172\145\144\040\165\163\145\040\157\156\154\171
\061\062\060\060\006\003\125\004\003\023\051\105\156\164\162\165
\163\164\040\122\157\157\164\040\103\145\162\164\151\146\151\143
\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040
\055\040\107\062\060\202\001\042\060\015\006\011\052\206\110\206
\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012
\002\202\001\001\000\272\204\266\162\333\236\014\153\342\231\351
\060\001\247\166\352\062\270\225\101\032\311\332\141\116\130\162
\317\376\366\202\171\277\163\141\006\012\245\047\330\263\137\323
\105\116\034\162\326\116\062\362\162\212\017\367\203\031\320\152
\200\200\000\105\036\260\307\347\232\277\022\127\047\034\243\150
\057\012\207\275\152\153\016\136\145\363\034\167\325\324\205\215
\160\041\264\263\062\347\213\242\325\206\071\002\261\270\322\107
\316\344\311\111\304\073\247\336\373\124\175\127\276\360\350\156
\302\171\262\072\013\125\342\120\230\026\062\023\134\057\170\126
\301\302\224\263\362\132\344\047\232\237\044\327\306\354\320\233
\045\202\343\314\302\304\105\305\214\227\172\006\153\052\021\237
\251\012\156\110\073\157\333\324\021\031\102\367\217\007\277\365
\123\137\234\076\364\027\054\346\151\254\116\062\114\142\167\352
\267\350\345\273\064\274\031\213\256\234\121\347\267\176\265\123
\261\063\042\345\155\317\160\074\032\372\342\233\147\266\203\364
\215\245\257\142\114\115\340\130\254\144\064\022\003\370\266\215
\224\143\044\244\161\002\003\001\000\001\243\102\060\100\060\016
\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060\017
\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060
\035\006\003\125\035\016\004\026\004\024\152\162\046\172\320\036
\357\175\347\073\151\121\324\154\215\237\220\022\146\253\060\015
\006\011\052\206\110\206\367\015\001\001\013\005\000\003\202\001
\001\000\171\237\035\226\306\266\171\077\042\215\207\323\207\003
\004\140\152\153\232\056\131\211\163\021\254\103\321\365\023\377
\215\071\053\300\362\275\117\160\214\251\057\352\027\304\013\124
\236\324\033\226\230\063\074\250\255\142\242\000\166\253\131\151
\156\006\035\176\304\271\104\215\230\257\022\324\141\333\012\031
\106\107\363\353\367\143\301\100\005\100\245\322\267\364\265\232
\066\277\251\210\166\210\004\125\004\053\234\207\177\032\067\074
\176\055\245\032\330\324\211\136\312\275\254\075\154\330\155\257
\325\363\166\017\315\073\210\070\042\235\154\223\232\304\075\277
\202\033\145\077\246\017\135\252\374\345\262\025\312\265\255\306

```
\274\075\320\204\350\352\006\162\260\115\071\062\170\277\076\021
\234\013\244\235\232\041\363\360\233\013\060\170\333\301\334\207
\103\376\274\143\232\312\305\302\034\311\307\215\377\073\022\130
\010\346\266\075\354\172\054\116\373\203\226\316\014\074\151\207
\124\163\244\163\302\223\377\121\020\254\025\124\001\330\374\005
\261\211\241\177\164\203\232\111\327\334\116\173\212\110\157\213
\105\366
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL
 CK_FALSE

# Trust for "Entrust Root Certification Authority - G2"
# Issuer: CN=Entrust Root Certification Authority - G2,OU="(c) 2009 Entrust, Inc. - for authorized use
only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Serial Number: 1246989352 (0x4a538c28)
# Subject: CN=Entrust Root Certification Authority - G2,OU="(c) 2009 Entrust, Inc. - for authorized use
only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Not Valid Before: Tue Jul 07 17:25:54 2009
# Not Valid After : Sat Dec 07 17:55:54 2030
# Fingerprint (SHA-256):
43:DF:57:74:B0:3E:7F:EF:5F:E4:0D:93:1A:7B:ED:F1:BB:2E:6B:42:73:8C:4E:6D:38:41:10:3D:3A:A7:F3:39
# Fingerprint (SHA1): 8C:F4:27:FD:79:0C:3A:D1:66:06:8D:E8:1E:57:EF:BB:93:22:72:D4
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\214\364\047\375\171\014\072\321\146\006\215\350\036\127\357\273
\223\042\162\324
END
CKA_CERT_MD5_HASH
 MULTILINE_OCTAL
\113\342\311\221\226\145\014\364\016\132\223\222\240\012\376\262
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\276\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162
\155\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051
\040\062\060\060\071\040\105\156\164\162\165\163\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060
```

\060\006\003\125\004\003\023\051\105\156\164\162\165\163\164\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107
\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\112\123\214\050
END
CKA_TRUST_SERVER_AUTH
 CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Entrust Root Certification Authority - EC1"
#
Issuer: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
Serial Number:00:a6:8b:79:29:00:00:00:00:50:d0:91:f9
Subject: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
Not Valid Before: Tue Dec 18 15:25:36 2012
Not Valid After : Fri Dec 18 15:55:36 2037
Fingerprint (SHA-256):
02:ED:0E:B2:8C:14:DA:45:16:5C:56:67:91:70:0D:64:51:D7:FB:56:F0:B2:AB:1D:3B:8E:B0:70:E5:6E:DF:F5
Fingerprint (SHA1): 20:D8:06:40:DF:9B:25:F5:12:25:3A:11:EA:F7:59:8A:EB:14:B5:47
CKA_CLASS
 CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - EC1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\277\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162
\155\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051
\040\062\060\061\062\040\105\156\164\162\165\163\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\063\060
\061\006\003\125\004\003\023\052\105\156\164\162\165\163\164\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\105
\103\061

END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\277\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162
\155\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051
\040\062\060\061\062\040\105\156\164\162\165\163\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\063\060
\061\006\003\125\004\003\023\052\105\156\164\162\165\163\164\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\105
\103\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\000\246\213\171\051\000\000\000\000\120\320\221\371
END
CKA_VALUE
 MULTILINE_OCTAL
\060\202\002\371\060\202\002\200\240\003\002\001\002\002\015\000
\246\213\171\051\000\000\000\000\120\320\221\371\060\012\006\010
\052\206\110\316\075\004\003\003\060\201\277\061\013\060\011\006
\003\125\004\006\023\002\125\123\061\026\060\024\006\003\125\004
\012\023\015\105\156\164\162\165\163\164\054\040\111\156\143\056
\061\050\060\046\006\003\125\004\013\023\037\123\145\145\040\167
\167\167\056\145\156\164\162\165\163\164\056\156\145\164\057\154
\145\147\141\154\055\164\145\162\155\163\061\071\060\067\006\003
\125\004\013\023\060\050\143\051\040\062\060\061\062\040\105\156
\164\162\165\163\164\054\040\111\156\143\056\040\055\040\146\157
\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163\145
\040\157\156\154\171\061\063\060\061\006\003\125\004\003\023\052
\105\156\164\162\165\163\164\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171\040\055\040\105\103\061\060\036\027\015\061\062
\061\062\061\070\061\065\062\065\063\066\132\027\015\063\067\061
\062\061\070\061\065\065\065\063\066\132\060\201\277\061\013\060
\011\006\003\125\004\006\023\002\125\123\061\026\060\024\006\003
\125\004\012\023\015\105\156\164\162\165\163\164\054\040\111\156
\143\056\061\050\060\046\006\003\125\004\013\023\037\123\145\145
\040\167\167\167\056\145\156\164\162\165\163\164\056\156\145\164
\057\154\145\147\141\154\055\164\145\162\155\163\061\071\060\067
\006\003\125\004\013\023\060\050\143\051\040\062\060\061\062\040
\105\156\164\162\165\163\164\054\040\111\156\143\056\040\055\040
\146\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165

\163\145\040\157\156\154\171\061\063\060\061\006\003\125\004\003
\023\052\105\156\164\162\165\163\164\040\122\157\157\164\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164
\150\157\162\151\164\171\040\055\040\105\103\061\060\166\060\020
\006\007\052\206\110\316\075\002\001\006\005\053\201\004\000\042
\003\142\000\004\204\023\311\320\272\155\101\173\342\154\320\353
\125\137\146\002\032\044\364\133\211\151\107\343\270\302\175\361
\362\002\305\237\240\366\133\325\213\006\031\206\117\123\020\155
\007\044\047\241\240\370\325\107\031\141\114\175\312\223\047\352
\164\014\357\157\226\011\376\143\354\160\135\066\255\147\167\256
\311\235\174\125\104\072\242\143\121\037\365\343\142\324\251\107
\007\076\314\040\243\102\060\100\060\016\006\003\125\035\017\001
\001\377\004\004\003\002\001\006\060\017\006\003\125\035\023\001
\001\377\004\005\060\003\001\001\377\060\035\006\003\125\035\016
\004\026\004\024\267\143\347\032\335\215\351\010\246\125\203\244
\340\152\120\101\145\021\102\111\060\012\006\010\052\206\110\316
\075\004\003\003\003\147\000\060\144\002\060\141\171\330\345\102
\107\337\034\256\123\231\027\266\157\034\175\341\277\021\224\321
\003\210\165\344\215\211\244\212\167\106\336\155\141\357\002\365
\373\265\337\314\376\116\377\376\251\346\247\002\060\133\231\327
\205\067\006\265\173\010\375\353\047\213\112\224\371\341\372\247
\216\046\010\350\174\222\150\155\163\330\157\046\254\041\002\270
\231\267\046\101\133\045\140\256\320\110\032\356\006
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Entrust Root Certification Authority - EC1"
Issuer: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
Serial Number:00:a6:8b:79:29:00:00:00:00:50:d0:91:f9
Subject: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
Not Valid Before: Tue Dec 18 15:25:36 2012
Not Valid After : Fri Dec 18 15:55:36 2037
Fingerprint (SHA-256):
02:ED:0E:B2:8C:14:DA:45:16:5C:56:67:91:70:0D:64:51:D7:FB:56:F0:B2:AB:1D:3B:8E:B0:70:E5:6E:DF:F5
Fingerprint (SHA1): 20:D8:06:40:DF:9B:25:F5:12:25:3A:11:EA:F7:59:8A:EB:14:B5:47
CKA_CLASS
CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - EC1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\040\330\006\100\337\233\045\365\022\045\072\021\352\367\131\212

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\353\024\265\107
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\266\176\035\360\130\305\111\154\044\073\075\355\230\030\355\274
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\277\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162
\155\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051
\040\062\060\061\062\040\105\156\164\162\165\163\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\063\060
\061\006\003\125\004\003\023\052\105\156\164\162\165\163\164\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\105
\103\061
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\015\000\246\213\171\051\000\000\000\000\120\320\221\371
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "CFCA EV ROOT"
#
# Issuer: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN
# Serial Number: 407555286 (0x184accd6)
# Subject: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN
# Not Valid Before: Wed Aug 08 03:07:01 2012
# Not Valid After : Mon Dec 31 03:07:01 2029
# Fingerprint (SHA-256):
5C:C3:D7:8E:4E:1D:5E:45:54:7A:04:E6:87:3E:64:F9:0C:F9:53:6D:1C:CC:2E:F8:00:F3:55:C4:C5:FD:70:FD
#
 Fingerprint (SHA1): E2:B8:29:4B:55:84:AB:6B:58:C2:90:46:6C:AC:3F:B8:39:8F:84:83
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CFCA EV ROOT"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
```

\060\126\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\060\060\056\006\003\125\004\012\014\047\103\150\151\156\141\040
\106\151\156\141\156\143\151\141\154\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171\061\025\060\023\006\003\125\004\003\014\014\103\106\103\101
\040\105\126\040\122\117\117\124
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\126\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\060\060\056\006\003\125\004\012\014\047\103\150\151\156\141\040
\106\151\156\141\156\143\151\141\154\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171\061\025\060\023\006\003\125\004\003\014\014\103\106\103\101
\040\105\126\040\122\117\117\124
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\004\030\112\314\326
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\215\060\202\003\165\240\003\002\001\002\002\004\030
\112\314\326\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\060\126\061\013\060\011\006\003\125\004\006\023\002\103
\116\061\060\060\056\006\003\125\004\012\014\047\103\150\151\156
\141\040\106\151\156\141\156\143\151\141\154\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171\061\025\060\023\006\003\125\004\003\014\014\103\106
\103\101\040\105\126\040\122\117\117\124\060\036\027\015\061\062
\060\070\060\070\060\063\060\067\060\061\132\027\015\062\071\061
\062\063\061\060\063\060\067\060\061\132\060\126\061\013\060\011
\006\003\125\004\006\023\002\103\116\061\060\060\056\006\003\125
\004\012\014\047\103\150\151\156\141\040\106\151\156\141\156\143
\151\141\154\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\061\025\060\023\006
\003\125\004\003\014\014\103\106\103\101\040\105\126\040\122\117
\117\124\060\202\002\042\060\015\006\011\052\206\110\206\367\015
\001\001\001\005\000\003\202\002\017\000\060\202\002\012\002\202
\002\001\000\327\135\153\315\020\077\037\005\131\325\005\115\067
\261\016\354\230\053\216\025\035\372\223\113\027\202\041\161\020
\122\327\121\144\160\026\302\125\151\115\216\025\155\237\277\014
\033\302\340\243\147\326\014\254\317\042\256\257\167\124\052\113
\114\212\123\122\172\303\356\056\336\263\161\045\301\351\135\075
\356\241\057\243\367\052\074\311\043\035\152\253\035\241\247\361
\363\354\240\325\104\317\025\317\162\057\035\143\227\350\231\371
\375\223\244\124\200\114\122\324\122\253\056\111\337\220\315\270
\137\276\077\336\241\312\115\040\324\045\350\204\051\123\267\261
\210\037\377\372\332\220\237\012\251\055\101\077\261\361\030\051

\356\026\131\054\064\111\032\250\006\327\250\210\322\003\162\172
\062\342\352\150\115\156\054\226\145\173\312\131\372\362\342\335
\356\060\054\373\314\106\254\304\143\353\157\177\066\053\064\163
\022\224\177\337\314\046\236\361\162\135\120\145\131\217\151\263
\207\136\062\157\303\030\212\265\225\217\260\172\067\336\132\105
\073\307\066\341\357\147\321\071\323\227\133\163\142\031\110\055
\207\034\006\373\164\230\040\111\163\360\005\322\033\261\240\243
\267\033\160\323\210\151\271\132\326\070\364\142\334\045\213\170
\277\370\350\176\270\134\311\225\117\137\247\055\271\040\153\317
\153\335\365\015\364\202\267\364\262\146\056\020\050\366\227\132
\173\226\026\217\001\031\055\154\156\177\071\130\006\144\203\001
\203\203\303\115\222\335\062\306\207\244\067\351\026\316\252\055
\150\257\012\201\145\072\160\301\233\255\115\155\124\312\052\055
\113\205\033\263\200\346\160\105\015\153\136\065\360\177\073\270
\234\344\004\160\211\022\045\223\332\012\231\042\140\152\143\140
\116\166\006\230\116\275\203\255\035\130\212\045\205\322\307\145
\036\055\216\306\337\266\306\341\177\212\004\041\025\051\164\360
\076\234\220\235\014\056\361\212\076\132\252\014\011\036\307\325
\074\243\355\227\303\036\064\372\070\371\010\016\343\300\135\053
\203\321\126\152\311\266\250\124\123\056\170\062\147\075\202\177
\164\320\373\341\266\005\140\271\160\333\216\013\371\023\130\157
\161\140\020\122\020\271\301\101\011\357\162\037\147\061\170\377
\226\005\215\002\003\001\000\001\243\143\060\141\060\037\006\003
\125\035\043\004\030\060\026\200\024\343\376\055\375\050\320\013
\265\272\266\242\304\277\006\252\005\214\223\373\057\060\017\006
\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060\016
\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060\035
\006\003\125\035\016\004\026\004\024\343\376\055\375\050\320\013
\265\272\266\242\304\277\006\252\005\214\223\373\057\060\015\006
\011\052\206\110\206\367\015\001\001\013\005\000\003\202\002\001
\000\045\306\272\153\353\207\313\336\202\071\226\075\360\104\247
\153\204\163\003\336\235\053\117\272\040\177\274\170\262\317\227
\260\033\234\363\327\171\056\365\110\266\322\373\027\210\346\323
\172\077\355\123\023\320\342\057\152\171\313\000\043\050\346\036
\067\127\065\211\204\302\166\117\064\066\255\147\303\316\101\006
\210\305\367\356\330\032\270\326\013\177\120\377\223\252\027\113
\214\354\355\122\140\262\244\006\352\116\353\364\153\031\375\353
\365\032\340\045\052\232\334\307\101\066\367\310\164\005\204\071
\225\071\326\013\073\244\047\372\010\330\134\036\370\004\140\122
\021\050\050\003\377\357\123\146\000\245\112\064\026\146\174\375
\011\244\256\236\147\032\157\101\013\153\006\023\233\217\206\161
\005\264\057\215\211\146\063\051\166\124\232\021\370\047\372\262
\077\221\340\316\015\033\363\060\032\255\277\042\135\033\323\277
\045\005\115\341\222\032\177\231\237\074\104\223\312\324\100\111
\154\200\207\327\004\072\303\062\122\065\016\126\370\245\335\175
\304\213\015\021\037\123\313\036\262\027\266\150\167\132\340\324
\313\310\007\256\365\072\056\216\067\267\320\001\113\103\051\167
\214\071\227\217\202\132\370\121\345\211\240\030\347\150\177\135

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\012\056\373\243\107\016\075\246\043\172\306\001\307\217\310\136
\277\155\200\126\276\212\044\272\063\352\237\341\062\021\236\361
\322\117\200\366\033\100\257\070\236\021\120\171\163\022\022\315
\346\154\235\054\210\162\074\060\201\006\221\042\352\131\255\332
\031\056\042\302\215\271\214\207\340\146\274\163\043\137\041\144
\143\200\110\365\240\074\030\075\224\310\110\101\035\100\272\136
\376\376\126\071\241\310\317\136\236\031\144\106\020\332\027\221
\267\005\200\254\213\231\222\175\347\242\330\007\013\066\047\347
\110\171\140\212\303\327\023\134\370\162\100\337\112\313\317\231
\000\012\000\013\021\225\332\126\105\003\210\012\237\147\320\325
\171\261\250\215\100\155\015\302\172\100\372\363\137\144\107\222
\313\123\271\273\131\316\117\375\320\025\123\001\330\337\353\331
\346\166\357\320\043\273\073\251\171\263\325\002\051\315\211\243
\226\017\112\065\347\116\102\300\165\315\007\317\346\054\353\173
\056
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "CFCA EV ROOT"
# Issuer: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN
# Serial Number: 407555286 (0x184accd6)
# Subject: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN
# Not Valid Before: Wed Aug 08 03:07:01 2012
# Not Valid After : Mon Dec 31 03:07:01 2029
# Fingerprint (SHA-256):
5C:C3:D7:8E:4E:1D:5E:45:54:7A:04:E6:87:3E:64:F9:0C:F9:53:6D:1C:CC:2E:F8:00:F3:55:C4:C5:FD:70:FD
# Fingerprint (SHA1): E2:B8:29:4B:55:84:AB:6B:58:C2:90:46:6C:AC:3F:B8:39:8F:84:83
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CFCA EV ROOT"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\342\270\051\113\125\204\253\153\130\302\220\106\154\254\077\270
\071\217\204\203
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\164\341\266\355\046\172\172\104\060\063\224\253\173\047\201\060
END
CKA_ISSUER
 MULTILINE_OCTAL
\060\126\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\060\060\056\006\003\125\004\012\014\047\103\150\151\156\141\040
\106\151\156\141\156\143\151\141\154\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
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\171\061\025\060\023\006\003\125\004\003\014\014\103\106\103\101
\040\105\126\040\122\117\117\124
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\030\112\314\326
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "OISTE WISeKey Global Root GB CA"
#
Issuer: CN=OISTE WISeKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
Serial Number:76:b1:20:52:74:f0:85:87:46:b3:f8:23:1a:f6:c2:c0
Subject: CN=OISTE WISeKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
Not Valid Before:
 Mon Dec 01 15:00:32 2014
Not Valid After : Thu Dec 01 15:10:31 2039
Fingerprint (SHA-256):
6B:9C:08:E8:6E:B0:F7:67:CF:AD:65:CD:98:B6:21:49:E5:49:4A:67:F5:84:5E:7B:D1:ED:01:9F:27:B8:6B:D6
Fingerprint (SHA1): 0F:F9:40:76:18:D3:D7:6A:4B:98:F0:A8:35:9E:0C:FD:27:AC:CC:ED
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WISeKey Global Root GB CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\155\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113\145
\171\061\042\060\040\006\003\125\004\013\023\031\117\111\123\124
\105\040\106\157\165\156\144\141\164\151\157\156\040\105\156\144
\157\162\163\145\144\061\050\060\046\006\003\125\004\003\023\037
\117\111\123\124\105\040\127\111\123\145\113\145\171\040\107\154
\157\142\141\154\040\122\157\157\164\040\107\102\040\103\101
END
CKA_ID UTF8
 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\155\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113\145
\171\061\042\060\040\006\003\125\004\013\023\031\117\111\123\124
\105\040\106\157\165\156\144\141\164\151\157\156\040\105\156\144
\157\162\163\145\144\061\050\060\046\006\003\125\004\003\023\037
\117\111\123\124\105\040\127\111\123\145\113\145\171\040\107\154
\157\142\141\154\040\122\157\157\164\040\107\102\040\103\101

END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\166\261\040\122\164\360\205\207\106\263\370\043\032\366
\302\300
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\265\060\202\002\235\240\003\002\001\002\002\020\166
\261\040\122\164\360\205\207\106\263\370\043\032\366\302\300\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\155
\061\013\060\011\006\003\125\004\006\023\002\103\110\061\020\060
\016\006\003\125\004\012\023\007\127\111\123\145\113\145\171\061
\042\060\040\006\003\125\004\013\023\031\117\111\123\124\105\040
\106\157\165\156\144\141\164\151\157\156\040\105\156\144\157\162
\163\145\144\061\050\060\046\006\003\125\004\003\023\037\117\111
\123\124\105\040\127\111\123\145\113\145\171\040\107\154\157\142
\141\154\040\122\157\157\164\040\107\102\040\103\101\060\036\027
\015\061\064\061\062\060\061\061\065\060\060\063\062\132\027\015
\063\071\061\062\060\061\061\065\061\060\063\061\132\060\155\061
\013\060\011\006\003\125\004\006\023\002\103\110\061\020\060\016
\006\003\125\004\012\023\007\127\111\123\145\113\145\171\061\042
\060\040\006\003\125\004\013\023\031\117\111\123\124\105\040\106
\157\165\156\144\141\164\151\157\156\040\105\156\144\157\162\163
\145\144\061\050\060\046\006\003\125\004\003\023\037\117\111\123
\124\105\040\127\111\123\145\113\145\171\040\107\154\157\142\141
\154\040\122\157\157\164\040\107\102\040\103\101\060\202\001\042
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\001\017\000\060\202\001\012\002\202\001\001\000\330\027\267
\034\112\044\052\326\227\261\312\342\036\373\175\070\357\230\365
\262\071\230\116\047\270\021\135\173\322\045\224\210\202\025\046
\152\033\061\273\250\133\041\041\053\330\017\116\237\132\361\261
\132\344\171\326\062\043\053\341\123\314\231\105\134\173\117\255
\274\277\207\112\013\113\227\132\250\366\110\354\175\173\015\315
\041\006\337\236\025\375\101\212\110\267\040\364\241\172\033\127
\324\135\120\377\272\147\330\043\231\037\310\077\343\336\377\157
\133\167\261\153\156\270\311\144\367\341\312\101\106\016\051\161
\320\271\043\374\311\201\137\116\367\157\337\277\204\255\163\144
\273\267\102\216\151\366\324\166\035\176\235\247\270\127\212\121
\147\162\327\324\250\270\225\124\100\163\003\366\352\364\353\376
\050\102\167\077\235\043\033\262\266\075\200\024\007\114\056\117
\367\325\012\026\015\275\146\103\067\176\043\103\171\303\100\206
\365\114\051\332\216\232\255\015\245\004\207\210\036\205\343\351
\123\325\233\310\213\003\143\170\353\340\031\112\156\273\057\153
\063\144\130\223\255\151\277\217\033\357\202\110\307\002\003\001
\000\001\243\121\060\117\060\013\006\003\125\035\017\004\004\003
\002\001\206\060\017\006\003\125\035\023\001\001\377\004\005\060
\003\001\001\377\060\035\006\003\125\035\016\004\026\004\024\065
\017\310\066\143\136\342\243\354\371\073\146\025\316\121\122\343
\221\232\075\060\020\006\011\053\006\001\004\001\202\067\025\001

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\004\003\002\001\000\060\015\006\011\052\206\110\206\367\015\001
\001\013\005\000\003\202\001\001\000\100\114\373\207\262\231\201
\220\176\235\305\260\260\046\315\210\173\053\062\215\156\270\041
\161\130\227\175\256\067\024\257\076\347\367\232\342\175\366\161
\230\231\004\252\103\164\170\243\343\111\141\076\163\214\115\224
\340\371\161\304\266\026\016\123\170\037\326\242\207\057\002\071
\201\051\074\257\025\230\041\060\376\050\220\000\214\321\341\313
\372\136\310\375\370\020\106\073\242\170\102\221\027\164\125\012
\336\120\147\115\146\321\247\377\375\331\300\265\250\243\212\316
\146\365\017\103\315\247\053\127\173\143\106\152\252\056\122\330
\364\355\341\155\255\051\220\170\110\272\341\043\252\243\211\354
\265\253\226\300\264\113\242\035\227\236\172\362\156\100\161\337
\150\361\145\115\316\174\005\337\123\145\251\245\360\261\227\004
\160\025\106\003\230\324\322\277\124\264\240\130\175\122\157\332
\126\046\142\324\330\333\211\061\157\034\360\042\302\323\142\034
\065\315\114\151\025\124\032\220\230\336\353\036\137\312\167\307
\313\216\075\103\151\234\232\130\320\044\073\337\033\100\226\176
\065\255\201\307\116\161\272\210\023
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "OISTE WISeKey Global Root GB CA"
# Issuer: CN=OISTE WISeKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Serial Number:76:b1:20:52:74:f0:85:87:46:b3:f8:23:1a:f6:c2:c0
# Subject: CN=OISTE WISeKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Not Valid Before: Mon Dec 01 15:00:32 2014
# Not Valid After : Thu Dec
 01 15:10:31 2039
# Fingerprint (SHA-256):
6B:9C:08:E8:6E:B0:F7:67:CF:AD:65:CD:98:B6:21:49:E5:49:4A:67:F5:84:5E:7B:D1:ED:01:9F:27:B8:6B:D6
# Fingerprint (SHA1): 0F:F9:40:76:18:D3:D7:6A:4B:98:F0:A8:35:9E:0C:FD:27:AC:CC:ED
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WISeKey Global Root GB CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\017\371\100\166\030\323\327\152\113\230\360\250\065\236\014\375
\047\254\314\355
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\244\353\271\141\050\056\267\057\230\260\065\046\220\231\121\035
END
CKA_ISSUER MULTILINE_OCTAL
\060\155\061\013\060\011\006\003\125\004\006\023\002\103\110\061
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\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113\145
\171\061\042\060\040\006\003\125\004\013\023\031\117\111\123\124
\105\040\106\157\165\156\144\141\164\151\157\156\040\105\156\144
\157\162\163\145\144\061\050\060\046\006\003\125\004\003\023\037
\117\111\123\124\105\040\127\111\123\145\113\145\171\040\107\154
\157\142\141\154\040\122\157\157\164\040\107\102\040\103\101
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\166\261\040\122\164\360\205\207\106\263\370\043\032\366
\302\300
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "SZAFIR ROOT CA2"
#
# Issuer: CN=SZAFIR ROOT CA2,O=Krajowa Izba Rozliczeniowa S.A.,C=PL
# Serial Number:3e:8a:5d:07:ec:55:d2:32:d5:b7:e3:b6:5f:01:eb:2d:dc:e4:d6:e4
# Subject: CN=SZAFIR ROOT CA2,O=Krajowa Izba Rozliczeniowa S.A.,C=PL
# Not Valid Before: Mon Oct 19 07:43:30 2015
# Not Valid After : Fri Oct 19 07:43:30 2035
# Fingerprint (SHA-256):
A1:33:9D:33:28:1A:0B:56:E5:57:D3:D3:2B:1C:E7:F9:36:7E:B0:94:BD:5F:A7:2A:7E:50:04:C8:DE:D7:CA:FE
# Fingerprint (SHA1): E2:52:FA:95:3F:ED:DB:24:60:BD:6E:28:F3:9C:CC:CF:5E:B3:3F:DE
CKA_CLASS CK_OBJECT_CLASS
 CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SZAFIR ROOT CA2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\050\060\046\006\003\125\004\012\014\037\113\162\141\152\157\167
\141\040\111\172\142\141\040\122\157\172\154\151\143\172\145\156
\151\157\167\141\040\123\056\101\056\061\030\060\026\006\003\125
\004\003\014\017\123\132\101\106\111\122\040\122\117\117\124\040
\103\101\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\050\060\046\006\003\125\004\012\014\037\113\162\141\152\157\167
\141\040\111\172\142\141\040\122\157\172\154\151\143\172\145\156
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\151\157\167\141\040\123\056\101\056\061\030\060\026\006\003\125
\004\003\014\017\123\132\101\106\111\122\040\122\117\117\124\040
\103\101\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\076\212\135\007\354\125\322\062\325\267\343\266\137\001
\353\055\334\344\326\344
END
CKA_VALUE
MULTILINE_OCTAL
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\212\135\007\354\125\322\062\325\267\343\266\137\001\353\055\334
\344\326\344\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\060\121\061\013\060\011\006\003\125\004\006\023\002\120
\114\061\050\060\046\006\003\125\004\012\014\037\113\162\141\152
\157\167\141\040\111\172\142\141\040\122\157\172\154\151\143\172
\145\156\151\157\167\141\040\123\056\101\056\061\030\060\026\006
\003\125\004\003\014\017\123\132\101\106\111\122\040\122\117\117
\124\040\103\101\062\060\036\027\015\061\065\061\060\061\071\060
\067\064\063\063\060\132\027\015\063\065\061\060\061\071\060\067
\064\063\063\060\132\060\121\061\013\060\011\006\003\125\004\006
\023\002\120\114\061\050\060\046\006\003\125\004\012\014\037\113
\162\141\152\157\167\141\040\111\172\142\141\040\122\157\172\154
\151\143\172\145\156\151\157\167\141\040\123\056\101\056\061\030
\060\026\006\003\125\004\003\014\017\123\132\101\106\111\122\040
\122\117\117\124\040\103\101\062\060\202\001\042\060\015\006\011
\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017\000
\060\202\001\012\002\202\001\001\000\267\274\076\120\250\113\315
\100\265\316\141\347\226\312\264\241\332\014\042\260\372\265\173
\166\000\167\214\013\317\175\250\206\314\046\121\344\040\075\205
\014\326\130\343\347\364\052\030\235\332\321\256\046\356\353\123
\334\364\220\326\023\112\014\220\074\303\364\332\322\216\015\222
\072\334\261\261\377\070\336\303\272\055\137\200\271\002\275\112
\235\033\017\264\303\302\301\147\003\335\334\033\234\075\263\260
\336\000\036\250\064\107\273\232\353\376\013\024\275\066\204\332
\015\040\277\372\133\313\251\026\040\255\071\140\356\057\165\266
\347\227\234\371\076\375\176\115\157\115\057\357\210\015\152\372
\335\361\075\156\040\245\240\022\264\115\160\271\316\327\162\073
\211\223\247\200\204\034\047\111\162\111\265\377\073\225\236\301
\314\310\001\354\350\016\212\012\226\347\263\246\207\345\326\371
\005\053\015\227\100\160\074\272\254\165\132\234\325\115\235\002
\012\322\113\233\146\113\106\007\027\145\255\237\154\210\000\334
\042\211\340\341\144\324\147\274\061\171\141\074\273\312\101\315
\134\152\000\310\074\070\216\130\257\002\003\001\000\001\243\102
\060\100\060\017\006\003\125\035\023\001\001\377\004\005\060\003
\001\001\377\060\016\006\003\125\035\017\001\001\377\004\004\003
\002\001\006\060\035\006\003\125\035\016\004\026\004\024\056\026
\251\112\030\265\313\314\365\157\120\363\043\137\370\135\347\254

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\000\003\202\001\001\000\265\163\370\003\334\131\133\035\166\351
\243\052\173\220\050\262\115\300\063\117\252\232\261\324\270\344
\047\377\251\226\231\316\106\340\155\174\114\242\070\244\006\160
\360\364\101\021\354\077\107\215\077\162\207\371\073\375\244\157
\053\123\000\340\377\071\271\152\007\016\353\035\034\366\242\162
\220\313\202\075\021\202\213\322\273\237\052\257\041\346\143\206
\235\171\031\357\367\273\014\065\220\303\212\355\117\017\365\314
\022\331\244\076\273\240\374\040\225\137\117\046\057\021\043\203
\116\165\007\017\277\233\321\264\035\351\020\004\376\312\140\217
\242\114\270\255\317\341\220\017\315\256\012\307\135\173\267\120
\322\324\141\372\325\025\333\327\237\207\121\124\353\245\343\353
\311\205\240\045\040\067\373\216\316\014\064\204\341\074\201\262
\167\116\103\245\210\137\206\147\241\075\346\264\134\141\266\076
\333\376\267\050\305\242\007\256\265\312\312\215\052\022\357\227
\355\302\060\244\311\052\172\373\363\115\043\033\231\063\064\240
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\326\040\036\343\163\267
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "SZAFIR ROOT CA2"
Issuer: CN=SZAFIR ROOT CA2,O=Krajowa Izba Rozliczeniowa S.A.,C=PL
Serial Number:3e:8a:5d:07:ec:55:d2:32:d5:b7:e3:b6:5f:01:eb:2d:dc:e4:d6:e4
#
 Subject: CN=SZAFIR ROOT CA2,O=Krajowa Izba Rozliczeniowa S.A.,C=PL
Not Valid Before: Mon Oct 19 07:43:30 2015
Not Valid After : Fri Oct 19 07:43:30 2035
Fingerprint (SHA-256):
A1:33:9D:33:28:1A:0B:56:E5:57:D3:D3:2B:1C:E7:F9:36:7E:B0:94:BD:5F:A7:2A:7E:50:04:C8:DE:D7:CA:FE
Fingerprint (SHA1): E2:52:FA:95:3F:ED:DB:24:60:BD:6E:28:F3:9C:CC:CF:5E:B3:3F:DE
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SZAFIR ROOT CA2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\342\122\372\225\077\355\333\044\140\275\156\050\363\234\314\317
\136\263\077\336
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\021\144\301\211\260\044\261\214\261\007\176\211\236\121\236\231
END
CKA_ISSUER MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\120\114\061

\050\060\046\006\003\125\004\012\014\037\113\162\141\152\157\167
\141\040\111\172\142\141\040\122\157\172\154\151\143\172\145\156
\151\157\167\141\040\123\056\101\056\061\030\060\026\006\003\125
\004\003\014\017\123\132\101\106\111\122\040\122\117\117\124\040
\103\101\062
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\024\076\212\135\007\354\125\322\062\325\267\343\266\137\001
\353\055\334\344\326\344
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Certum Trusted Network CA 2"
#
Issuer: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
Serial Number:21:d6:d0:4a:4f:25:0f:c9:32:37:fc:aa:5e:12:8d:e9
Subject: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
Not Valid Before: Thu Oct 06 08:39:56 2011
Not Valid After : Sat Oct 06 08:39:56 2046
Fingerprint (SHA-256):
B6:76:F2:ED:DA:E8:77:5C:D3:6C:B0:F6:3C:D1:D4:60:39:61:F4:9E:62:65:BA:01:3A:2F:03:07:B6:D0:B8:04
#
Fingerprint (SHA1): D3:DD:48:3E:2B:BF:4C:05:E8:AF:10:F5:FA:76:26:CF:D3:DC:30:92
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Network CA 2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\200\061\013\060\011\006\003\125\004\006\023\002\120\114
\061\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145
\164\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040
\123\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103
\145\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\061\044\060
\042\006\003\125\004\003\023\033\103\145\162\164\165\155\040\124
\162\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103
\101\040\062
END
CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\201\200\061\013\060\011\006\003\125\004\006\023\002\120\114
\061\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145
\164\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040
\123\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103
\145\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\061\044\060
\042\006\003\125\004\003\023\033\103\145\162\164\165\155\040\124
\162\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103
\101\040\062
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\041\326\320\112\117\045\017\311\062\067\374\252\136\022
\215\351
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CKA_VALUE MULTILINE_OCTAL
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\015\006\011\052\206\110\206\367\015\001\001\015\005\000\060\201
\200\061\013\060\011\006\003\125\004\006\023\002\120\114\061\042
\060\040\006\003\125\004\012\023\031\125\156\151\172\145\164\157
\040\124\145\143\150\156\157\154\157\147\151\145\163\040\123\056
\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145\162
\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\061\044\060\042\006
\003\125\004\003\023\033\103\145\162\164\165\155\040\124\162\165
\163\164\145\144\040\116\145\164\167\157\162\153\040\103\101\040
\062\060\042\030\017\062\060\061\061\061\060\060\066\060\070\063
\071\065\066\132\030\017\062\060\064\066\061\060\060\066\060\070
\063\071\065\066\132\060\201\200\061\013\060\011\006\003\125\004
\006\023\002\120\114\061\042\060\040\006\003\125\004\012\023\031
\125\156\151\172\145\164\157\040\124\145\143\150\156\157\154\157
\147\151\145\163\040\123\056\101\056\061\047\060\045\006\003\125
\004\013\023\036\103\145\162\164\165\155\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\061\044\060\042\006\003\125\004\003\023\033\103\145\162
\164\165\155\040\124\162\165\163\164\145\144\040\116\145\164\167
\157\162\153\040\103\101\040\062\060\202\002\042\060\015\006\011
\052\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000
\060\202\002\012\002\202\002\001\000\275\371\170\370\346\325\200
\014\144\235\206\033\226\144\147\077\042\072\036\165\001\175\357
\373\134\147\214\311\314\134\153\251\221\346\271\102\345\040\113
\233\332\233\173\271\231\135\331\233\200\113\327\204\100\053\047
\323\350\272\060\273\076\011\032\247\111\225\357\053\100\044\302
\227\307\247\356\233\045\357\250\012\000\227\205\132\252\235\334
\051\311\342\065\007\353\160\115\112\326\301\263\126\270\241\101
\070\233\321\373\061\177\217\340\137\341\261\077\017\216\026\111

\140\327\006\215\030\371\252\046\020\253\052\323\320\321\147\215
\033\106\276\107\060\325\056\162\321\305\143\332\347\143\171\104
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\342\221\050\211\271\300\133\371\035\331\347\047\255\377\232\002
\227\301\306\120\222\233\002\054\275\251\271\064\131\012\277\204
\112\377\337\376\263\237\353\331\236\340\230\043\354\246\153\167
\026\052\333\314\255\073\034\244\207\334\106\163\136\031\142\150
\105\127\344\220\202\102\273\102\326\360\141\340\301\243\075\146
\243\135\364\030\356\210\311\215\027\105\051\231\062\165\002\061
\356\051\046\310\153\002\346\265\142\105\177\067\025\132\043\150
\211\324\076\336\116\047\260\360\100\014\274\115\027\313\115\242
\263\036\320\006\132\335\366\223\317\127\165\231\365\372\206\032
\147\170\263\277\226\376\064\334\275\347\122\126\345\263\345\165
\173\327\101\221\005\334\135\151\343\225\015\103\271\374\203\226
\071\225\173\154\200\132\117\023\162\306\327\175\051\172\104\272
\122\244\052\325\101\106\011\040\376\042\240\266\133\060\215\274
\211\014\325\327\160\370\207\122\375\332\357\254\121\056\007\263
\116\376\320\011\332\160\357\230\372\126\346\155\333\265\127\113
\334\345\054\045\025\310\236\056\170\116\370\332\234\236\206\054
\312\127\363\032\345\310\222\213\032\202\226\172\303\274\120\022
\151\330\016\132\106\213\072\353\046\372\043\311\266\260\201\276
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\001\001\377\060\035\006\003\125\035\016\004\026\004\024\266\241
\124\071\002\303\240\077\216\212\274\372\324\370\034\246\321\072
\016\375\060\016\006\003\125\035\017\001\001\377\004\004\003\002
\001\006\060\015\006\011\052\206\110\206\367\015\001\001\015\005
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\160\326\002\136\071\240\367\217\253\226\265\245\023\134\201\024
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\011\131\364\133\167\013\067\351\213\040\306\370\012\116\056\130
\034\353\063\320\317\206\140\311\332\373\200\057\236\114\140\204
\170\075\041\144\326\373\101\037\030\017\347\311\165\161\275\275
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\057\336\232\035\132\271\126\316\065\072\260\137\160\115\136\343
\051\361\043\050\162\131\266\253\302\214\146\046\034\167\054\046
\166\065\213\050\247\151\240\371\073\365\043\335\205\020\164\311
\220\003\126\221\347\257\272\107\324\022\227\021\042\343\242\111
\224\154\347\267\224\113\272\055\244\332\063\213\114\246\104\377
\132\074\306\035\144\330\265\061\344\246\074\172\250\127\013\333
\355\141\032\313\361\316\163\167\143\244\207\157\114\121\070\326
\344\137\307\237\266\201\052\344\205\110\171\130\136\073\370\333
\002\202\147\301\071\333\303\164\113\075\066\036\371\051\223\210

\150\133\250\104\031\041\360\247\350\201\015\054\350\223\066\264
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\077\373\243\232\376\163\062\161\302\236\306\162\341\212\150\047
\361\344\017\264\304\114\245\141\223\370\227\020\007\052\060\045
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\157\266\272\154\203\103\167\315\212\222\027\241\236\133\170\026
\075\105\342\063\162\335\341\146\312\231\323\311\305\046\375\015
\150\004\106\256\266\331\233\214\276\031\276\261\306\362\031\343
\134\002\312\054\330\157\112\007\331\311\065\332\100\165\362\304
\247\031\157\236\102\020\230\165\346\225\213\140\274\355\305\022
\327\212\316\325\230\134\126\226\003\305\356\167\006\065\377\317
\344\356\077\023\141\356\333\332\055\205\360\315\256\235\262\030
\011\105\303\222\241\162\027\374\107\266\240\013\054\361\304\336
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\016\265\271\276\044\217
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Certum Trusted Network CA 2"
Issuer: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
Serial Number:21:d6:d0:4a:4f:25:0f:c9:32:37:fc:aa:5e:12:8d:e9
Subject: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
Not Valid Before: Thu Oct 06 08:39:56 2011
Not Valid After : Sat Oct 06 08:39:56 2046
Fingerprint (SHA-256): B6:76:F2:ED:DA:E8:77:5C:D3:6C:B0:F6:3C:D1:D4:60:39:61:F4:9E:62:65:BA:01:3A:2F:03:07:B6:D0:B8:04
Fingerprint (SHA1): D3:DD:48:3E:2B:BF:4C:05:E8:AF:10:F5:FA:76:26:CF:D3:DC:30:92
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Network CA 2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\323\335\110\076\053\277\114\005\350\257\020\365\372\166\046\317
\323\334\060\222
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\155\106\236\331\045\155\010\043\133\136\164\175\036\047\333\362
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\200\061\013\060\011\006\003\125\004\006\023\002\120\114
\061\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145

\164\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040
\123\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103
\145\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\061\044\060
\042\006\003\125\004\003\023\033\103\145\162\164\165\155\040\124
\162\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103
\101\040\062
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\041\326\320\112\117\045\017\311\062\067\374\252\136\022
\215\351
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Hellenic Academic and Research Institutions RootCA 2015"
#
Issuer: CN=Hellenic Academic and Research Institutions RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
Serial Number: 0 (0x0)
#
Subject: CN=Hellenic Academic and Research Institutions RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
Not Valid Before: Tue Jul 07 10:11:21 2015
Not Valid After : Sat Jun 30 10:11:21 2040
Fingerprint (SHA-256):
A0:40:92:9A:02:CE:53:B4:AC:F4:F2:FF:C6:98:1C:E4:49:6F:75:5E:6D:45:FE:0B:2A:69:2B:CD:52:52:3F:36
Fingerprint (SHA1): 01:0C:06:95:A6:98:19:14:FF:BF:5F:C6:B0:B6:95:EA:29:E9:12:A6
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions RootCA 2015"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\246\061\013\060\011\006\003\125\004\006\023\002\107\122
\061\017\060\015\006\003\125\004\007\023\006\101\164\150\145\156
\163\061\104\060\102\006\003\125\004\012\023\073\110\145\154\154
\145\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156
\144\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151
\164\165\164\151\157\156\163\040\103\145\162\164\056\040\101\165
\164\150\157\162\151\164\171\061\100\060\076\006\003\125\004\003
\023\067\110\145\154\154\145\156\151\143\040\101\143\141\144\145
\155\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150

\040\111\156\163\164\151\164\165\164\151\157\156\163\040\122\157
\157\164\103\101\040\062\060\061\065
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\246\061\013\060\011\006\003\125\004\006\023\002\107\122
\061\017\060\015\006\003\125\004\007\023\006\101\164\150\145\156
\163\061\104\060\102\006\003\125\004\012\023\073\110\145\154\154
\145\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156
\144\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151
\164\165\164\151\157\156\163\040\103\145\162\164\056\040\101\165
\164\150\157\162\151\164\171\061\100\060\076\006\003\125\004\003
\023\067\110\145\154\154\145\156\151\143\040\101\143\141\144\145
\155\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150
\040\111\156\163\164\151\164\165\164\151\157\156\163\040\122\157
\157\164\103\101\040\062\060\061\065
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\013\060\202\003\363\240\003\002\001\002\002\001\000
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\201\246\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\017\060\015\006\003\125\004\007\023\006\101\164\150\145\156\163
\061\104\060\102\006\003\125\004\012\023\073\110\145\154\154\145
\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144
\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164
\165\164\151\157\156\163\040\103\145\162\164\056\040\101\165\164
\150\157\162\151\164\171\061\100\060\076\006\003\125\004\003\023
\067\110\145\154\154\145\156\151\143\040\101\143\141\144\145\155
\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150\040
\111\156\163\164\151\164\165\164\151\157\156\163\040\122\157\157
\164\103\101\040\062\060\061\065\060\036\027\015\061\065\060\067
\060\067\061\060\061\061\062\061\132\027\015\064\060\060\066\063
\060\061\060\061\061\062\061\132\060\201\246\061\013\060\011\006
\003\125\004\006\023\002\107\122\061\017\060\015\006\003\125\004
\007\023\006\101\164\150\145\156\163\061\104\060\102\006\003\125
\004\012\023\073\110\145\154\154\145\156\151\143\040\101\143\141
\144\145\155\151\143\040\141\156\144\040\122\145\163\145\141\162
\143\150\040\111\156\163\164\151\164\165\164\151\157\156\163\040
\103\145\162\164\056\040\101\165\164\150\157\162\151\164\171\061
\100\060\076\006\003\125\004\003\023\067\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\122\157\157\164\103\101\040\062\060\061

\065\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001
\001\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002
\001\000\302\370\251\077\033\211\374\074\074\004\135\075\220\066
\260\221\072\171\074\146\132\357\155\071\001\111\032\264\267\317
\177\115\043\123\267\220\000\343\023\052\050\246\061\361\221\000
\343\050\354\256\041\101\316\037\332\375\175\022\133\001\203\017
\271\260\137\231\341\362\022\203\200\115\006\076\337\254\257\347
\241\210\153\061\257\360\213\320\030\063\270\333\105\152\064\364
\002\200\044\050\012\002\025\225\136\166\052\015\231\072\024\133
\366\313\313\123\274\023\115\001\210\067\224\045\033\102\274\042
\330\216\243\226\136\072\331\062\333\076\350\360\020\145\355\164
\341\057\247\174\257\047\064\273\051\175\233\266\317\011\310\345
\323\012\374\210\145\145\164\012\334\163\034\134\315\100\261\034
\324\266\204\214\114\120\317\150\216\250\131\256\302\047\116\202
\242\065\335\024\364\037\377\262\167\325\207\057\252\156\175\044
\047\347\306\313\046\346\345\376\147\007\143\330\105\015\335\072
\131\145\071\130\172\222\231\162\075\234\204\136\210\041\270\325
\364\054\374\331\160\122\117\170\270\275\074\053\213\225\230\365
\263\321\150\317\040\024\176\114\134\137\347\213\345\365\065\201
\031\067\327\021\010\267\146\276\323\112\316\203\127\000\072\303
\201\370\027\313\222\066\135\321\243\330\165\033\341\213\047\352
\172\110\101\375\105\031\006\255\047\231\116\301\160\107\335\265
\237\201\123\022\345\261\214\110\135\061\103\027\343\214\306\172
\143\226\113\051\060\116\204\116\142\031\136\074\316\227\220\245
\177\001\353\235\340\370\213\211\335\045\230\075\222\266\176\357
\331\361\121\121\175\055\046\310\151\131\141\340\254\152\270\052
\066\021\004\172\120\275\062\204\276\057\334\162\325\327\035\026
\107\344\107\146\040\077\364\226\305\257\216\001\172\245\017\172
\144\365\015\030\207\331\256\210\325\372\204\301\072\300\151\050
\055\362\015\150\121\252\343\245\167\306\244\220\016\241\067\213
\061\043\107\301\011\010\353\156\367\170\233\327\202\374\204\040
\231\111\031\266\022\106\261\373\105\125\026\251\243\145\254\234
\007\017\352\153\334\037\056\006\162\354\206\210\022\344\055\333
\137\005\057\344\360\003\323\046\063\347\200\302\315\102\241\027
\064\013\002\003\001\000\001\243\102\060\100\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006\003
\125\035\017\001\001\377\004\004\003\002\001\006\060\035\006\003
\125\035\016\004\026\004\024\161\025\147\310\310\311\275\165\135
\162\320\070\030\152\235\363\161\044\124\013\060\015\006\011\052
\206\110\206\367\015\001\001\013\005\000\003\202\002\001\000\165
\273\155\124\113\252\020\130\106\064\362\142\327\026\066\135\010
\136\325\154\310\207\275\264\056\106\362\061\370\174\352\102\265
\223\026\125\334\241\014\022\240\332\141\176\017\130\130\163\144
\162\307\350\105\216\334\251\362\046\077\306\171\214\261\123\010
\063\201\260\126\023\276\346\121\134\330\233\012\117\113\234\126
\123\002\351\117\366\015\140\352\115\102\125\350\174\033\041\041
\323\033\072\314\167\362\270\220\361\150\307\371\132\376\372\055
\364\277\311\365\105\033\316\070\020\052\067\212\171\243\264\343

\011\154\205\206\223\377\211\226\047\170\201\217\147\343\106\164
\124\216\331\015\151\342\112\364\115\164\003\377\262\167\355\225
\147\227\344\261\305\253\277\152\043\350\324\224\342\104\050\142
\304\113\342\360\330\342\051\153\032\160\176\044\141\223\173\117
\003\062\045\015\105\044\053\226\264\106\152\277\112\013\367\232
\217\301\254\032\305\147\363\157\064\322\372\163\143\214\357\026
\260\250\244\106\052\370\353\022\354\162\264\357\370\053\176\214
\122\300\213\204\124\371\057\076\343\125\250\334\146\261\331\341
\137\330\263\214\131\064\131\244\253\117\154\273\037\030\333\165
\253\330\313\222\315\224\070\141\016\007\006\037\113\106\020\361
\025\276\215\205\134\073\112\053\201\171\017\264\151\237\111\120
\227\115\367\016\126\135\300\225\152\302\066\303\033\150\311\365
\052\334\107\232\276\262\316\305\045\350\372\003\271\332\371\026
\156\221\204\365\034\050\310\374\046\314\327\034\220\126\247\137
\157\072\004\274\315\170\211\013\216\017\057\243\252\117\242\033
\022\075\026\010\100\017\361\106\114\327\252\173\010\301\012\365
\155\047\336\002\217\312\303\265\053\312\351\353\310\041\123\070
\245\314\073\330\167\067\060\242\117\331\157\321\362\100\255\101
\172\027\305\326\112\065\211\267\101\325\174\206\177\125\115\203
\112\245\163\040\300\072\257\220\361\232\044\216\331\216\161\312
\173\270\206\332\262\217\231\076\035\023\015\022\021\356\324\253
\360\351\025\166\002\344\340\337\252\040\036\133\141\205\144\100
\251\220\227\015\255\123\322\132\035\207\152\000\227\145\142\264
\276\157\152\247\365\054\102\355\062\255\266\041\236\276\274
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Hellenic Academic and Research Institutions RootCA 2015"
Issuer: CN=Hellenic Academic and Research Institutions RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
Serial Number: 0 (0x0)
Subject: CN=Hellenic Academic and Research Institutions RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
Not Valid Before: Tue Jul 07 10:11:21 2015
Not Valid After : Sat Jun 30 10:11:21 2040
Fingerprint (SHA-256): A0:40:92:9A:02:CE:53:B4:AC:F4:F2:FF:C6:98:1C:E4:49:6F:75:5E:6D:45:FE:0B:2A:69:2B:CD:52:52:3F:36
Fingerprint (SHA1): 01:0C:06:95:A6:98:19:14:FF:BF:5F:C6:B0:B6:95:EA:29:E9:12:A6
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions RootCA 2015"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\001\014\006\225\246\230\031\024\377\277\137\306\260\266\225\352

\051\351\022\246
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\312\377\342\333\003\331\313\113\351\017\255\204\375\173\030\316
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\246\061\013\060\011\006\003\125\004\006\023\002\107\122
\061\017\060\015\006\003\125\004\007\023\006\101\164\150\145\156
\163\061\104\060\102\006\003\125\004\012\023\073\110\145\154\154
\145\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156
\144\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151
\164\165\164\151\157\156\163\040\103\145\162\164\056\040\101\165
\164\150\157\162\151\164\171\061\100\060\076\006\003\125\004\003
\023\067\110\145\154\154\145\156\151\143\040\101\143\141\144\145
\155\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150
\040\111\156\163\164\151\164\165\164\151\157\156\163\040\122\157
\157\164\103\101\040\062\060\061\065
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Hellenic Academic and Research Institutions ECC RootCA 2015"
#
Issuer: CN=Hellenic Academic and Research Institutions ECC RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
#
Serial Number: 0 (0x0)
Subject: CN=Hellenic Academic and Research Institutions ECC RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
Not Valid Before: Tue Jul 07 10:37:12 2015
Not Valid After : Sat Jun 30 10:37:12 2040
Fingerprint (SHA-256):
44:B5:45:AA:8A:25:E6:5A:73:CA:15:DC:27:FC:36:D2:4C:1C:B9:95:3A:06:65:39:B1:15:82:DC:48:7B:48:33
Fingerprint (SHA1): 9F:F1:71:8D:92:D5:9A:F3:7D:74:97:B4:BC:6F:84:68:0B:BA:B6:66
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions ECC RootCA 2015"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

\060\201\252\061\013\060\011\006\003\125\004\006\023\002\107\122
\061\017\060\015\006\003\125\004\007\023\006\101\164\150\145\156
\163\061\104\060\102\006\003\125\004\012\023\073\110\145\154\154
\145\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156
\144\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151
\164\165\164\151\157\156\163\040\103\145\162\164\056\040\101\165
\164\150\157\162\151\164\171\061\104\060\102\006\003\125\004\003
\023\073\110\145\154\154\145\156\151\143\040\101\143\141\144\145
\155\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150
\040\111\156\163\164\151\164\165\164\151\157\156\163\040\105\103
\103\040\122\157\157\164\103\101\040\062\060\061\065
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\252\061\013\060\011\006\003\125\004\006\023\002\107\122
\061\017\060\015\006\003\125\004\007\023\006\101\164\150\145\156
\163\061\104\060\102\006\003\125\004\012\023\073\110\145\154\154
\145\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156
\144\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151
\164\165\164\151\157\156\163\040\103\145\162\164\056\040\101\165
\164\150\157\162\151\164\171\061\104\060\102\006\003\125\004\003
\023\073\110\145\154\154\145\156\151\143\040\101\143\141\144\145
\155\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150
\040\111\156\163\164\151\164\165\164\151\157\156\163\040\105\103
\103\040\122\157\157\164\103\101\040\062\060\061\065
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\303\060\202\002\112\240\003\002\001\002\002\001\000
\060\012\006\010\052\206\110\316\075\004\003\002\060\201\252\061
\013\060\011\006\003\125\004\006\023\002\107\122\061\017\060\015
\006\003\125\004\007\023\006\101\164\150\145\156\163\061\104\060
\102\006\003\125\004\012\023\073\110\145\154\154\145\156\151\143
\040\101\143\141\144\145\155\151\143\040\141\156\144\040\122\145
\163\145\141\162\143\150\040\111\156\163\164\151\164\165\164\151
\157\156\163\040\103\145\162\164\056\040\101\165\164\150\157\162
\151\164\171\061\104\060\102\006\003\125\004\003\023\073\110\145
\154\154\145\156\151\143\040\101\143\141\144\145\155\151\143\040
\141\156\144\040\122\145\163\145\141\162\143\150\040\111\156\163
\164\151\164\165\164\151\157\156\163\040\105\103\103\040\122\157
\157\164\103\101\040\062\060\061\065\060\036\027\015\061\065\060
\067\060\067\061\060\063\067\061\062\132\027\015\064\060\060\066
\063\060\061\060\063\067\061\062\132\060\201\252\061\013\060\011
\006\003\125\004\006\023\002\107\122\061\017\060\015\006\003\125

\004\007\023\006\101\164\150\145\156\163\061\104\060\102\006\003
\125\004\012\023\073\110\145\154\154\145\156\151\143\040\101\143
\141\144\145\155\151\143\040\141\156\144\040\122\145\163\145\141
\162\143\150\040\111\156\163\164\151\164\165\164\151\157\156\163
\040\103\145\162\164\056\040\101\165\164\150\157\162\151\164\171
\061\104\060\102\006\003\125\004\003\023\073\110\145\154\154\145
\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144
\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164
\165\164\151\157\156\163\040\105\103\103\040\122\157\157\164\103
\101\040\062\060\061\065\060\166\060\020\006\007\052\206\110\316
\075\002\001\006\005\053\201\004\000\042\003\142\000\004\222\240
\101\350\113\202\204\134\342\370\061\021\231\206\144\116\011\045
\057\235\101\057\012\256\065\117\164\225\262\121\144\153\215\153
\346\077\160\225\360\005\104\107\246\162\070\120\166\225\002\132
\216\256\050\236\371\055\116\231\357\054\110\157\114\045\051\350
\321\161\133\337\035\301\165\067\264\327\372\173\172\102\234\152
\012\126\132\174\151\013\252\200\011\044\154\176\301\106\243\102
\060\100\060\017\006\003\125\035\023\001\001\377\004\005\060\003
\001\001\377\060\016\006\003\125\035\017\001\001\377\004\004\003
\002\001\006\060\035\006\003\125\035\016\004\026\004\024\264\042
\013\202\231\044\001\016\234\273\344\016\375\277\373\227\040\223
\231\052\060\012\006\010\052\206\110\316\075\004\003\002\003\147
\000\060\144\002\060\147\316\026\142\070\242\254\142\105\247\251
\225\044\300\032\047\234\062\073\300\300\325\272\251\347\370\004
\103\123\205\356\122\041\336\235\365\045\203\076\236\130\113\057
\327\147\023\016\041\002\060\005\341\165\001\336\150\355\052\037
\115\114\011\010\015\354\113\255\144\027\050\347\165\316\105\145
\162\041\027\313\042\101\016\214\023\230\070\232\124\155\233\312
\342\174\352\002\130\042\221
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Hellenic Academic and Research Institutions ECC RootCA 2015"
Issuer: CN=Hellenic Academic and Research Institutions ECC RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
Serial Number: 0 (0x0)
Subject: CN=Hellenic Academic and Research Institutions ECC RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
Not Valid Before: Tue Jul 07 10:37:12 2015
Not Valid After : Sat Jun 30 10:37:12 2040
Fingerprint (SHA-256):
44:B5:45:AA:8A:25:E6:5A:73:CA:15:DC:27:FC:36:D2:4C:1C:B9:95:3A:06:65:39:B1:15:82:DC:48:7B:48:33
Fingerprint (SHA1): 9F:F1:71:8D:92:D5:9A:F3:7D:74:97:B4:BC:6F:84:68:0B:BA:B6:66
CKA_CLASS

```
 CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions ECC RootCA 2015"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\237\361\161\215\222\325\232\363\175\164\227\264\274\157\204\150
\013\272\266\146
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\201\345\264\027\353\302\365\341\113\015\101\173\111\222\376\357
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\252\061\013\060\011\006\003\125\004\006\023\002\107\122
\061\017\060\015\006\003\125\004\007\023\006\101\164\150\145\156
\163\061\104\060\102\006\003\125\004\012\023\073\110\145\154\154
\145\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156
\144\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151
\164\165\164\151\157\156\163\040\103\145\162\164\056\040\101\165
\164\150\157\162\151\164\171\061\104\060\102\006\003\125\004\003
\023\073\110\145\154\154\145\156\151\143\040\101\143\141\144\145
\155\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150
\040\111\156\163\164\151\164\165\164\151\157\156\163\040\105\103
\103\040\122\157\157\164\103\101\040\062\060\061\065
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "ISRG Root X1"
#
# Issuer: CN=ISRG Root X1,O=Internet Security Research Group,C=US
# Serial Number:00:82:10:cf:b0:d2:40:e3:59:44:63:e0:bb:63:82:8b:00
# Subject: CN=ISRG Root X1,O=Internet Security Research Group,C=US
# Not Valid Before: Thu Jun 04 11:04:38 2015
# Not Valid After : Mon Jun 04 11:04:38 2035
# Fingerprint (SHA-256):
96:BC:EC:06:26:49:76:F3:74:60:77:9A:CF:28:C5:A7:CF:E8:A3:C0:AA:E1:1A:8F:FC:EE:05:C0:BD:DF:08:C6
# Fingerprint (SHA1): CA:BD:2A:79:A1:07:6A:31:F2:1D:25:36:35:CB:03:9D:43:29:A5:E8
CKA_CLASS CK_OBJECT_CLASS
 CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
```

CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ISRG Root X1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156
\145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145
\141\162\143\150\040\107\162\157\165\160\061\025\060\023\006\003
\125\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130
\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156
\145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145
\141\162\143\150\040\107\162\157\165\160\061\025\060\023\006\003
\125\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130
\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\202\020\317\260\322\100\343\131\104\143\340\273\143
\202\213\000
END
CKA_VALUE
MULTILINE_OCTAL
\060\202\005\153\060\202\003\123\240\003\002\001\002\002\021\000
\202\020\317\260\322\100\343\131\104\143\340\273\143\202\213\000
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061\051
\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156\145
\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145\141
\162\143\150\040\107\162\157\165\160\061\025\060\023\006\003\125
\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130\061
\060\036\027\015\061\065\060\066\060\064\061\061\060\064\063\070
\132\027\015\063\065\060\066\060\064\061\061\060\064\063\070\132
\060\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156
\145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145
\141\162\143\150\040\107\162\157\165\160\061\025\060\023\006\003
\125\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130
\061\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001
\001\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002
\001\000\255\350\044\163\364\024\067\363\233\236\053\127\050\034
\207\276\334\267\337\070\220\214\156\074\346\127\240\170\367\165
\302\242\376\365\152\156\366\000\117\050\333\336\150\206\154\104
\223\266\261\143\375\024\022\153\277\037\322\352\061\233\041\176

\321\063\074\272\110\365\335\171\337\263\270\377\022\361\041\232
\113\301\212\206\161\151\112\146\146\154\217\176\074\160\277\255
\051\042\006\363\344\300\346\200\256\342\113\217\267\231\176\224
\003\237\323\107\227\174\231\110\043\123\350\070\256\117\012\157
\203\056\321\111\127\214\200\164\266\332\057\320\070\215\173\003
\160\041\033\165\362\060\074\372\217\256\335\332\143\253\353\026
\117\302\216\021\113\176\317\013\350\377\265\167\056\364\262\173
\112\340\114\022\045\014\160\215\003\051\240\341\123\044\354\023
\331\356\031\277\020\263\112\214\077\211\243\141\121\336\254\207
\007\224\364\143\161\354\056\342\157\133\230\201\341\211\134\064
\171\154\166\357\073\220\142\171\346\333\244\232\057\046\305\320
\020\341\016\336\331\020\216\026\373\267\367\250\367\307\345\002
\007\230\217\066\010\225\347\342\067\226\015\066\165\236\373\016
\162\261\035\233\274\003\371\111\005\330\201\335\005\264\052\326
\101\351\254\001\166\225\012\017\330\337\325\275\022\037\065\057
\050\027\154\322\230\301\250\011\144\167\156\107\067\272\316\254
\131\136\150\235\177\162\326\211\305\006\101\051\076\131\076\335
\046\365\044\311\021\247\132\243\114\100\037\106\241\231\265\247
\072\121\156\206\073\236\175\162\247\022\005\170\131\355\076\121
\170\025\013\003\217\215\320\057\005\262\076\173\112\034\113\163
\005\022\374\306\352\340\120\023\174\103\223\164\263\312\164\347
\216\037\001\010\320\060\324\133\161\066\264\007\272\301\060\060
\134\110\267\202\073\230\246\175\140\212\242\243\051\202\314\272
\275\203\004\033\242\203\003\101\241\326\005\361\033\302\266\360
\250\174\206\073\106\250\110\052\210\334\166\232\166\277\037\152
\245\075\031\217\353\070\363\144\336\310\053\015\012\050\377\367
\333\342\025\102\324\042\320\047\135\341\171\376\030\347\160\210
\255\116\346\331\213\072\306\335\047\121\156\377\274\144\365\063
\103\117\002\003\001\000\001\243\102\060\100\060\016\006\003\125
\035\017\001\001\377\004\004\003\002\001\006\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003
\125\035\016\004\026\004\024\171\264\131\346\173\266\345\344\001
\163\200\010\210\310\032\130\366\351\233\156\060\015\006\011\052
\206\110\206\367\015\001\001\013\005\000\003\202\002\001\000\125
\037\130\251\274\262\250\120\320\014\261\330\032\151\040\047\051
\010\254\141\165\134\212\156\370\202\345\151\057\325\366\126\113
\271\270\163\020\131\323\041\227\176\347\114\161\373\262\322\140
\255\071\250\013\352\027\041\126\205\361\120\016\131\353\316\340
\131\351\272\311\025\357\206\235\217\204\200\366\344\351\221\220
\334\027\233\142\033\105\360\146\225\322\174\157\302\352\073\357
\037\317\313\326\256\047\361\251\260\310\256\375\175\176\232\372
\042\004\353\377\331\177\352\221\053\042\261\027\016\217\362\212
\064\133\130\330\374\001\311\124\271\270\046\314\212\210\063\211
\114\055\204\074\202\337\356\226\127\005\272\054\273\367\304\267
\307\116\073\202\276\061\310\042\163\163\222\321\302\200\244\071
\071\020\063\043\202\114\074\237\206\262\125\230\035\276\051\206
\214\042\233\236\342\153\073\127\072\202\160\115\334\011\307\211
\313\012\007\115\154\350\135\216\311\357\316\253\307\273\265\053

\116\105\326\112\320\046\314\345\162\312\010\152\245\225\343\025
\241\367\244\355\311\054\137\245\373\377\254\050\002\056\276\327
\173\273\343\161\173\220\026\323\007\136\106\123\174\067\007\102
\214\323\304\226\234\325\231\265\052\340\225\032\200\110\256\114
\071\007\316\314\107\244\122\225\053\272\270\373\255\322\063\123
\175\345\035\115\155\325\241\261\307\102\157\346\100\047\065\134
\243\050\267\007\215\347\215\063\220\347\043\237\373\120\234\171
\154\106\325\264\025\263\226\156\176\233\014\226\072\270\122\055
\077\326\133\341\373\010\302\204\376\044\250\243\211\332\254\152
\341\030\052\261\250\103\141\133\323\037\334\073\215\166\362\055
\350\215\165\337\027\063\154\075\123\373\173\313\101\137\377\334
\242\320\141\070\341\226\270\254\135\213\067\327\165\325\063\300
\231\021\256\235\101\301\162\165\204\276\002\101\102\137\147\044
\110\224\321\233\047\276\007\077\271\270\117\201\164\121\341\172
\267\355\235\043\342\276\340\325\050\004\023\074\061\003\236\335
\172\154\217\306\007\030\306\177\336\107\216\077\050\236\004\006
\317\245\124\064\167\275\354\211\233\351\027\103\337\133\333\137
\376\216\036\127\242\315\100\235\176\142\042\332\336\030\047
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "ISRG Root X1"
Issuer: CN=ISRG Root X1,O=Internet Security Research Group,C=US
Serial Number:00:82:10:cf:b0:d2:40:e3:59:44:63:e0:bb:63:82:8b:00
#
Subject: CN=ISRG Root X1,O=Internet Security Research Group,C=US
Not Valid Before: Thu Jun 04 11:04:38 2015
Not Valid After : Mon Jun 04 11:04:38 2035
Fingerprint (SHA-256):
96:BC:EC:06:26:49:76:F3:74:60:77:9A:CF:28:C5:A7:CF:E8:A3:C0:AA:E1:1A:8F:FC:EE:05:C0:BD:DF:08:C6
Fingerprint (SHA1): CA:BD:2A:79:A1:07:6A:31:F2:1D:25:36:35:CB:03:9D:43:29:A5:E8
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ISRG Root X1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\312\275\052\171\241\007\152\061\362\035\045\066\065\313\003\235
\103\051\245\350
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\014\322\371\340\332\027\163\351\355\206\115\245\343\160\347\116
END
CKA_ISSUER MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061

```
\051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156
\145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145
\141\162\143\150\040\107\162\157\165\160\061\025\060\023\006\003
\125\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130
\061
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\021\000\202\020\317\260\322\100\343\131\104\143\340\273\143
\202\213\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "AC RAIZ FNMT-RCM"
#
# Issuer: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
# Serial Number:5d:93:8d:30:67:36:c8:06:1d:1a:c7:54:84:69:07
# Subject: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
# Not Valid Before: Wed Oct 29 15:59:56 2008
# Not Valid After : Tue Jan 01 00:00:00 2030
# Fingerprint (SHA-256):
EB:C5:57:0C:29:01:8C:4D:67:B1:AA:12:7B:AF:12:F7:03:B4:61:1E:BC:17:B7:DA:B5:57:38:94:17:9B:93:FA
# Fingerprint (SHA1): EC:50:35:07:B2:15:C4:95:62:19:E2:A8:9A:5B:42:99:2C:4C:2C:20
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN
 CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AC RAIZ FNMT-RCM"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\073\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\021\060\017\006\003\125\004\012\014\010\106\116\115\124\055\122
\103\115\061\031\060\027\006\003\125\004\013\014\020\101\103\040
\122\101\111\132\040\106\116\115\124\055\122\103\115
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\073\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\021\060\017\006\003\125\004\012\014\010\106\116\115\124\055\122
\103\115\061\031\060\027\006\003\125\004\013\014\020\101\103\040
\122\101\111\132\040\106\116\115\124\055\122\103\115
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
```

\002\017\135\223\215\060\147\066\310\006\035\032\307\124\204\151
\007
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\203\060\202\003\153\240\003\002\001\002\002\017\135
\223\215\060\147\066\310\006\035\032\307\124\204\151\007\060\015
\006\011\052\206\110\206\367\015\001\001\013\005\000\060\073\061
\013\060\011\006\003\125\004\006\023\002\105\123\061\021\060\017
\006\003\125\004\012\014\010\106\116\115\124\055\122\103\115\061
\031\060\027\006\003\125\004\013\014\020\101\103\040\122\101\111
\132\040\106\116\115\124\055\122\103\115\060\036\027\015\060\070
\061\060\062\071\061\065\065\071\065\066\132\027\015\063\060\060
\061\060\061\060\060\060\060\060\060\132\060\073\061\013\060\011
\006\003\125\004\006\023\002\105\123\061\021\060\017\006\003\125
\004\012\014\010\106\116\115\124\055\122\103\115\061\031\060\027
\006\003\125\004\013\014\020\101\103\040\122\101\111\132\040\106
\116\115\124\055\122\103\115\060\202\002\042\060\015\006\011\052
\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060
\202\002\012\002\202\002\001\000\272\161\200\172\114\206\156\177
\310\023\155\300\306\175\034\000\227\217\054\014\043\273\020\232
\100\251\032\267\207\210\370\233\126\152\373\346\173\216\213\222
\216\247\045\135\131\021\333\066\056\267\121\027\037\251\010\037
\004\027\044\130\252\067\112\030\337\345\071\324\127\375\327\301
\054\221\001\221\342\042\324\003\300\130\374\167\107\354\217\076
\164\103\272\254\064\215\115\070\166\147\216\260\310\157\060\063
\130\161\134\264\365\153\156\324\001\120\270\023\176\154\112\243
\111\321\040\031\356\274\300\051\030\145\247\336\376\357\335\012
\220\041\347\032\147\222\102\020\230\137\117\060\274\076\034\105
\264\020\327\150\100\024\300\100\372\347\167\027\172\346\013\217
\145\133\074\331\232\122\333\265\275\236\106\317\075\353\221\005
\002\300\226\262\166\114\115\020\226\073\222\372\234\177\017\231
\337\276\043\065\105\036\002\134\376\265\250\233\231\045\332\136
\363\042\303\071\365\344\052\056\323\306\037\304\154\252\305\034
\152\001\005\112\057\322\305\301\250\064\046\135\146\245\322\002
\041\371\030\267\006\365\116\231\157\250\253\114\121\350\317\120
\030\305\167\310\071\011\054\111\222\062\231\250\273\027\027\171
\260\132\305\346\243\304\131\145\107\065\203\136\251\350\065\013
\231\273\344\315\040\306\233\112\006\071\265\150\374\042\272\356
\125\214\053\116\352\363\261\343\374\266\231\232\325\102\372\161
\115\010\317\207\036\152\161\175\371\323\264\351\245\161\201\173
\302\116\107\226\245\366\166\205\243\050\217\351\200\156\201\123
\245\155\137\270\110\371\302\371\066\246\056\111\377\270\226\302
\214\007\263\233\210\130\374\353\033\034\336\055\160\342\227\222
\060\241\211\343\274\125\250\047\326\113\355\220\255\213\372\143
\045\131\055\250\065\335\312\227\063\274\345\315\307\235\321\354
\357\136\016\112\220\006\046\143\255\271\331\065\055\007\272\166
\145\054\254\127\217\175\364\007\224\327\201\002\226\135\243\007
\111\325\172\320\127\371\033\347\123\106\165\252\260\171\102\313

\150\161\010\351\140\275\071\151\316\364\257\303\126\100\307\255
\122\242\011\344\157\206\107\212\037\353\050\047\135\203\040\257
\004\311\154\126\232\213\106\365\002\003\001\000\001\243\201\203
\060\201\200\060\017\006\003\125\035\023\001\001\377\004\005\060
\003\001\001\377\060\016\006\003\125\035\017\001\001\377\004\004
\003\002\001\006\060\035\006\003\125\035\016\004\026\004\024\367
\175\305\375\304\350\232\033\167\144\247\365\035\240\314\277\207
\140\232\155\060\076\006\003\125\035\040\004\067\060\065\060\063
\006\004\125\035\040\000\060\053\060\051\006\010\053\006\001\005
\005\007\002\001\026\035\150\164\164\160\072\057\057\167\167\167
\056\143\145\162\164\056\146\156\155\164\056\145\163\057\144\160
\143\163\057\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\003\202\002\001\000\007\220\112\337\363\043\116\360\303
\234\121\145\233\234\042\242\212\014\205\363\163\051\153\115\376
\001\342\251\014\143\001\277\004\147\245\235\230\137\375\001\023
\372\354\232\142\351\206\376\266\142\322\156\114\224\373\300\165
\105\174\145\014\370\262\067\317\254\017\317\215\157\371\031\367
\217\354\036\362\160\236\360\312\270\357\267\377\166\067\166\133
\366\156\210\363\257\142\062\042\223\015\072\152\216\024\146\014
\055\123\164\127\145\036\325\262\335\043\201\073\245\146\043\047
\147\011\217\341\167\252\103\315\145\121\010\355\121\130\376\346
\071\371\313\107\204\244\025\361\166\273\244\356\244\073\304\137
\357\262\063\226\021\030\267\311\145\276\030\341\243\244\334\372
\030\371\323\274\023\233\071\172\064\272\323\101\373\372\062\212
\052\267\053\206\013\151\203\070\276\315\212\056\013\160\255\215
\046\222\356\036\365\001\053\012\331\326\227\233\156\340\250\031
\034\072\041\213\014\036\100\255\003\347\335\146\176\365\271\040
\015\003\350\226\371\202\105\324\071\340\240\000\135\327\230\346
\175\236\147\163\303\232\052\367\253\213\241\072\024\357\064\274
\122\016\211\230\232\004\100\204\035\176\105\151\223\127\316\353
\316\370\120\174\117\034\156\004\103\233\371\326\073\043\030\351
\352\216\321\115\106\215\361\073\344\152\312\272\373\043\267\233
\372\231\001\051\132\130\132\055\343\371\324\155\016\046\255\301
\156\064\274\062\370\014\005\372\145\243\333\073\067\203\042\351
\326\334\162\063\375\135\362\040\275\166\074\043\332\050\367\371
\033\353\131\144\325\334\137\162\176\040\374\315\211\265\220\147
\115\142\172\077\116\255\035\303\071\376\172\364\050\026\337\101
\366\110\200\005\327\017\121\171\254\020\253\324\354\003\146\346
\152\260\272\061\222\102\100\152\276\072\323\162\341\152\067\125
\274\254\035\225\267\151\141\362\103\221\164\346\240\323\012\044
\106\241\010\257\326\332\105\031\226\324\123\035\133\204\171\360
\300\367\107\357\213\217\305\006\256\235\114\142\235\377\106\004
\370\323\311\266\020\045\100\165\376\026\252\311\112\140\206\057
\272\357\060\167\344\124\342\270\204\231\130\200\252\023\213\121
\072\117\110\366\213\266\263
END
CKA_NSS_MOZILLA_CA_POLICY

```
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "AC RAIZ FNMT-RCM"
# Issuer: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
# Serial Number:5d:93:8d:30:67:36:c8:06:1d:1a:c7:54:84:69:07
# Subject: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
# Not Valid Before: Wed Oct 29 15:59:56 2008
#
 Not Valid After : Tue Jan 01 00:00:00 2030
# Fingerprint (SHA-256):
EB:C5:57:0C:29:01:8C:4D:67:B1:AA:12:7B:AF:12:F7:03:B4:61:1E:BC:17:B7:DA:B5:57:38:94:17:9B:93:FA
# Fingerprint (SHA1): EC:50:35:07:B2:15:C4:95:62:19:E2:A8:9A:5B:42:99:2C:4C:2C:20
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AC RAIZ FNMT-RCM"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\354\120\065\007\262\025\304\225\142\031\342\250\232\133\102\231
\054\114\054\040
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\342\011\004\264\323\275\321\240\024\375\032\322\107\304\127\035
END
CKA_ISSUER MULTILINE_OCTAL
\060\073\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\021\060\017\006\003\125\004\012\014\010\106\116\115\124\055\122
\103\115\061\031\060\027\006\003\125\004\013\014\020\101\103\040
\122\101\111\132\040\106\116\115\124\055\122\103\115
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\017\135\223\215\060\147\066\310\006\035\032\307\124\204\151
\007
END
CKA_TRUST_SERVER_AUTH
 CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Amazon Root CA 1"
#
# Issuer: CN=Amazon Root CA 1,O=Amazon,C=US
# Serial Number:06:6c:9f:cf:99:bf:8c:0a:39:e2:f0:78:8a:43:e6:96:36:5b:ca
# Subject: CN=Amazon Root CA 1,O=Amazon,C=US
```

```
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sun Jan 17 00:00:00 2038
# Fingerprint (SHA-256):
8E:CD:E6:88:4F:3D:87:B1:12:5B:A3:1A:C3:FC:B1:3D:70:16:DE:7F:57:CC:90:4F:E1:CB:97:C6:AE:98:19:6E
# Fingerprint (SHA1): 8D:A7:F9:65:EC:5E:FC:37:91:0F:1C:6E:59:FD:C1:CC:6A:6E:DE:16
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\061
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\317\231\277\214\012\071\342\360\170\212\103
\346\226\066\133\312
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\101\060\202\002\051\240\003\002\001\002\002\023\006
\154\237\317\231\277\214\012\071\342\360\170\212\103\346\226\066
\133\312\060\015\006\011\052\206\110\206\367\015\001\001\013\005
\000\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157
\156\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172
\157\156\040\122\157\157\164\040\103\101\040\061\060\036\027\015
\061\065\060\065\062\066\060\060\060\060\060\060\132\027\015\063
\070\060\061\061\067\060\060\060\060\060\060\132\060\071\061\013
\060\011\006\003\125\004\006\023\002\125\123\061\017\060\015\006
\003\125\004\012\023\006\101\155\141\172\157\156\061\031\060\027
\006\003\125\004\003\023\020\101\155\141\172\157\156\040\122\157
\157\164\040\103\101\040\061\060\202\001\042\060\015\006\011\052
\206\110\206\367\015\001\001\001\005\000\003\202\001\017\000\060
\202\001\012\002\202\001\001\000\262\170\200\161\312\170\325\343
\161\257\107\200\120\164\175\156\330\327\210\166\364\231\150\367
\130\041\140\371\164\204\001\057\254\002\055\206\323\240\103\172
\116\262\244\320\066\272\001\276\215\333\110\310\007\027\066\114
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\364\356\210\043\307\076\353\067\365\265\031\370\111\150\260\336
\327\271\166\070\035\141\236\244\376\202\066\245\345\112\126\344
\105\341\371\375\264\026\372\164\332\234\233\065\071\057\372\260
\040\120\006\154\172\320\200\262\246\371\257\354\107\031\217\120
\070\007\334\242\207\071\130\370\272\325\251\371\110\147\060\226
\356\224\170\136\157\211\243\121\300\060\206\146\241\105\146\272
\124\353\243\303\221\371\110\334\377\321\350\060\055\175\055\164
\160\065\327\210\044\367\236\304\131\156\273\163\207\027\362\062
\106\050\270\103\372\267\035\252\312\264\362\237\044\016\055\113
\367\161\134\136\151\377\352\225\002\313\070\212\256\120\070\157
\333\373\055\142\033\305\307\036\124\341\167\340\147\310\017\234
\207\043\326\077\100\040\177\040\200\304\200\114\076\073\044\046
\216\004\256\154\232\310\252\015\002\003\001\000\001\243\102\060
\100\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001
\001\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002
\001\206\060\035\006\003\125\035\016\004\026\004\024\204\030\314
\205\064\354\274\014\224\224\056\010\131\234\307\262\020\116\012
\010\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000
\003\202\001\001\000\230\362\067\132\101\220\241\032\305\166\121
\050\040\066\043\016\256\346\050\273\252\370\224\256\110\244\060
\177\033\374\044\215\113\264\310\241\227\366\266\361\172\160\310
\123\223\314\010\050\343\230\045\317\043\244\371\336\041\323\174
\205\011\255\116\232\165\072\302\013\152\211\170\166\104\107\030
\145\154\215\101\216\073\177\232\313\364\265\247\120\327\005\054
\067\350\003\113\255\351\141\240\002\156\365\362\360\305\262\355
\133\267\334\372\224\134\167\236\023\245\177\122\255\225\362\370
\223\073\336\213\134\133\312\132\122\133\140\257\024\367\113\357
\243\373\237\100\225\155\061\124\374\102\323\307\106\037\043\255
\331\017\110\160\232\331\165\170\161\321\162\103\064\165\156\127
\131\302\002\134\046\140\051\317\043\031\026\216\210\103\245\324
\344\313\010\373\043\021\103\350\103\051\162\142\241\251\135\136
\010\324\220\256\270\330\316\024\302\320\125\362\206\366\304\223
\103\167\146\141\300\271\350\101\327\227\170\140\003\156\112\162
\256\245\321\175\272\020\236\206\154\033\212\271\131\063\370\353
\304\220\276\361\271
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Amazon Root CA 1"
Issuer: CN=Amazon Root CA 1,O=Amazon,C=US
Serial Number:06:6c:9f:cf:99:bf:8c:0a:39:e2:f0:78:8a:43:e6:96:36:5b:ca
Subject: CN=Amazon Root CA 1,O=Amazon,C=US
Not Valid Before: Tue May 26 00:00:00 2015
Not Valid After : Sun Jan 17 00:00:00 2038
Fingerprint (SHA-256):

8E:CD:E6:88:4F:3D:87:B1:12:5B:A3:1A:C3:FC:B1:3D:70:16:DE:7F:57:CC:90:4F:E1:CB:97:C6:AE:98:19:6E
Fingerprint (SHA1): 8D:A7:F9:65:EC:5E:FC:37:91:0F:1C:6E:59:FD:C1:CC:6A:6E:DE:16
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\215\247\371\145\354\136\374\067\221\017\034\156\131\375\301\314
\152\156\336\026
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\103\306\277\256\354\376\255\057\030\306\210\150\060\374\310\346
END
CKA_ISSUER
MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\317\231\277\214\012\071\342\360\170\212\103
\346\226\066\133\312
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Amazon Root CA 2"
#
Issuer: CN=Amazon Root CA 2,O=Amazon,C=US
Serial Number:06:6c:9f:d2:96:35:86:9f:0a:0f:e5:86:78:f8:5b:26:bb:8a:37
Subject: CN=Amazon Root CA 2,O=Amazon,C=US
Not Valid Before: Tue May 26 00:00:00 2015
Not Valid After : Sat May 26 00:00:00 2040
Fingerprint
(SHA-256):
1B:A5:B2:AA:8C:65:40:1A:82:96:01:18:F8:0B:EC:4F:62:30:4D:83:CE:C4:71:3A:19:C3:9C:01:1E:A4:6D:B4
Fingerprint (SHA1): 5A:8C:EF:45:D7:A6:98:59:76:7A:8C:8B:44:96:B5:78:CF:47:4B:1A
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\322\226\065\206\237\012\017\345\206\170\370
\133\046\273\212\067
END
CKA_VALUE
MULTILINE_OCTAL
\060\202\005\101\060\202\003\051\240\003\002\001\002\002\023\006
\154\237\322\226\065\206\237\012\017\345\206\170\370\133\046\273
\212\067\060\015\006\011\052\206\110\206\367\015\001\001\014\005
\000\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157
\156\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172
\157\156\040\122\157\157\164\040\103\101\040\062\060\036\027\015
\061\065\060\065\062\066\060\060\060\060\060\060\132\027\015\064
\060\060\065\062\066\060\060\060\060\060\060\132\060\071\061\013
\060\011\006\003\125\004\006\023\002\125\123\061\017\060\015\006
\003\125\004\012\023\006\101\155\141\172\157\156\061\031\060\027
\006\003\125\004\003\023\020\101\155\141\172\157\156\040\122\157
\157\164\040\103\101\040\062\060\202\002\042\060\015\006\011\052
\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060
\202\002\012\002\202\002\001\000\255\226\237\055\234\112\114\112
\201\171\121\231\354\212\313\153\140\121\023\274\115\155\006\374
\260\010\215\335\031\020\152\307\046\014\065\330\300\157\040\204
\351\224\261\233\205\003\303\133\333\112\350\310\370\220\166\331
\133\117\343\114\350\006\066\115\314\232\254\075\014\220\053\222
\324\006\031\140\254\067\104\171\205\201\202\255\132\067\340\015
\314\235\246\114\122\166\352\103\235\267\004\321\120\366\125\340
\325\322\246\111\205\351\067\351\312\176\256\134\225\115\110\232
\077\256\040\132\155\210\225\331\064\270\122\032\103\220\260\277
\154\005\271\266\170\267\352\320\344\072\074\022\123\142\377\112
\362\173\276\065\005\251\022\064\343\363\144\164\142\054\075\000
\111\132\050\376\062\104\273\207\335\145\047\002\161\073\332\112
\367\037\332\315\367\041\125\220\117\017\354\256\202\341\237\153
\331\105\323\273\360\137\207\355\074\054\071\206\332\077\336\354
\162\125\353\171\243\255\333\335\174\260\272\034\316\374\336\117

\065\166\317\017\370\170\037\152\066\121\106\047\141\133\351\236
\317\360\242\125\175\174\045\212\157\057\264\305\317\204\056\053
\375\015\121\020\154\373\137\033\274\033\176\305\256\073\230\001
\061\222\377\013\127\364\232\262\271\127\351\253\357\015\166\321
\360\356\364\316\206\247\340\156\351\264\151\241\337\151\366\063
\306\151\056\227\023\236\245\207\260\127\020\201\067\311\123\263
\273\177\366\222\321\234\320\030\364\222\156\332\203\117\246\143
\231\114\245\373\136\357\041\144\172\040\137\154\144\205\025\313
\067\351\142\014\013\052\026\334\001\056\062\332\076\113\365\236
\072\366\027\100\224\357\236\221\010\206\372\276\143\250\132\063
\354\313\164\103\225\371\154\151\122\066\307\051\157\374\125\003
\134\037\373\237\275\107\353\347\111\107\225\013\116\211\042\011
\111\340\365\141\036\361\277\056\212\162\156\200\131\377\127\072
\371\165\062\243\116\137\354\355\050\142\331\115\163\362\314\201
\027\140\355\315\353\334\333\247\312\305\176\002\275\362\124\010
\124\375\264\055\011\054\027\124\112\230\321\124\341\121\147\010
\322\355\156\176\157\077\322\055\201\131\051\146\313\220\071\225
\021\036\164\047\376\335\353\257\002\003\001\000\001\243\102\060
\100\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001
\001\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002
\001\206\060\035\006\003\125\035\016\004\026\004\024\260\014\360
\114\060\364\005\130\002\110\375\063\345\122\257\113\204\343\146
\122\060\015\006\011\052\206\110\206\367\015\001\001\014\005\000
\003\202\002\001\000\252\250\200\217\016\170\243\340\242\324\315
\346\365\230\172\073\352\000\003\260\227\016\223\274\132\250\366
\054\214\162\207\251\261\374\177\163\375\143\161\170\245\207\131
\317\060\341\015\020\262\023\132\155\202\365\152\346\200\237\240
\005\013\150\344\107\153\307\152\337\266\375\167\062\162\345\030
\372\011\364\240\223\054\135\322\214\165\205\166\145\220\014\003
\171\267\061\043\143\255\170\203\011\206\150\204\312\377\371\317
\046\232\222\171\347\315\113\305\347\141\247\027\313\363\251\022
\223\223\153\247\350\057\123\222\304\140\130\260\314\002\121\030
\133\205\215\142\131\143\266\255\264\336\232\373\046\367\000\047
\300\135\125\067\164\231\311\120\177\343\131\056\104\343\054\045
\356\354\114\062\167\264\237\032\351\113\135\040\305\332\375\034
\207\026\306\103\350\324\273\046\232\105\160\136\251\013\067\123
\342\106\173\047\375\340\106\362\211\267\314\102\266\313\050\046
\156\331\245\311\072\310\101\023\140\367\120\214\025\256\262\155
\032\025\032\127\170\346\222\052\331\145\220\202\077\154\002\257
\256\022\072\047\226\066\004\327\035\242\200\143\251\233\361\345
\272\264\174\024\260\116\311\261\037\164\137\070\366\121\352\233
\372\054\242\021\324\251\055\047\032\105\261\257\262\116\161\015
\300\130\106\326\151\006\313\123\313\263\376\153\101\315\101\176
\175\114\017\174\162\171\172\131\315\136\112\016\254\233\251\230
\163\171\174\264\364\314\271\270\007\014\262\164\134\270\307\157
\210\241\220\247\364\252\371\277\147\072\364\032\025\142\036\267
\237\276\075\261\051\257\147\241\022\362\130\020\031\123\003\060
\033\270\032\211\366\234\275\227\003\216\243\011\363\035\213\041

\361\264\337\344\034\321\237\145\002\006\352\134\326\023\263\204
\357\242\245\134\214\167\051\247\150\300\153\256\100\322\250\264
\352\315\360\215\113\070\234\031\232\033\050\124\270\211\220\357
\312\165\201\076\036\362\144\044\307\030\257\116\377\107\236\007
\366\065\145\244\323\012\126\377\365\027\144\154\357\250\042\045
\111\223\266\337\000\027\332\130\176\135\356\305\033\260\321\321
\137\041\020\307\371\363\272\002\012\047\007\305\361\326\307\323
\340\373\011\140\154
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Amazon Root CA 2"
Issuer: CN=Amazon Root CA 2,O=Amazon,C=US
Serial Number:06:6c:9f:d2:96:35:86:9f:0a:0f:e5:86:78:f8:5b:26:bb:8a:37
Subject: CN=Amazon Root CA 2,O=Amazon,C=US
Not Valid Before: Tue May 26 00:00:00 2015
Not Valid After :
Sat May 26 00:00:00 2040
Fingerprint (SHA-256):
1B:A5:B2:AA:8C:65:40:1A:82:96:01:18:F8:0B:EC:4F:62:30:4D:83:CE:C4:71:3A:19:C3:9C:01:1E:A4:6D:B4
Fingerprint (SHA1): 5A:8C:EF:45:D7:A6:98:59:76:7A:8C:8B:44:96:B5:78:CF:47:4B:1A
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\132\214\357\105\327\246\230\131\166\172\214\213\104\226\265\170
\317\107\113\032
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\310\345\215\316\250\102\342\172\300\052\134\174\236\046\277\146
END
CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\322\226\065\206\237\012\017\345\206\170\370
\133\046\273\212\067
END
CKA_TRUST_SERVER_AUTH

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 CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Amazon Root CA 3"
#
# Issuer: CN=Amazon Root CA 3,O=Amazon,C=US
# Serial Number:06:6c:9f:d5:74:97:36:66:3f:3b:0b:9a:d9:e8:9e:76:03:f2:4a
# Subject: CN=Amazon Root CA 3,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sat May 26 00:00:00 2040
# Fingerprint (SHA-256):
18:CE:6C:FE:7B:F1:4E:60:B2:E3:47:B8:DF:E8:68:CB:31:D0:2E:BB:3A:DA:27:15:69:F5:03:43:B4:6D:B3:A4
# Fingerprint (SHA1): 0D:44:DD:8C:3C:8C:1A:1A:58:75:64:81:E9:0F:2E:2A:FF:B3:D2:6E
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\063
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\325\164\227\066\146\077\073\013\232\331\350
\236\166\003\362\112
END
CKA_VALUE MULTILINE_OCTAL
\060\202\001\266\060\202\001\133\240\003\002\001\002\002\023\006
\154\237\325\164\227\066\146\077\073\013\232\331\350\236\166\003
\362\112\060\012\006\010\052\206\110\316\075\004\003\002\060\071
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\017\060
\015\006\003\125\004\012\023\006\101\155\141\172\157\156\061\031
\060\027\006\003\125\004\003\023\020\101\155\141\172\157\156\040
\122\157\157\164\040\103\101\040\063\060\036\027\015\061\065\060
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\065\062\066\060\060\060\060\060\060\132\027\015\064\060\060\065
\062\066\060\060\060\060\060\060\132\060\071\061\013\060\011\006
\003\125\004\006\023\002\125\123\061\017\060\015\006\003\125\004
\012\023\006\101\155\141\172\157\156\061\031\060\027\006\003\125
\004\003\023\020\101\155\141\172\157\156\040\122\157\157\164\040
\103\101\040\063\060\131\060\023\006\007\052\206\110\316\075\002
\001\006\010\052\206\110\316\075\003\001\007\003\102\000\004\051
\227\247\306\101\177\300\015\233\350\001\033\126\306\362\122\245
\272\055\262\022\350\322\056\327\372\311\305\330\252\155\037\163
\201\073\073\230\153\071\174\063\245\305\116\206\216\200\027\150
\142\105\127\175\104\130\035\263\067\345\147\010\353\146\336\243
\102\060\100\060\017\006\003\125\035\023\001\001\377\004\005\060
\003\001\001\377\060\016\006\003\125\035\017\001\001\377\004\004
\003\002\001\206\060\035\006\003\125\035\016\004\026\004\024\253
\266\333\327\006\236\067\254\060\206\007\221\160\307\234\304\031
\261\170\300\060\012\006\010\052\206\110\316\075\004\003\002\003
\111\000\060\106\002\041\000\340\205\222\243\027\267\215\371\053
\006\245\223\254\032\230\150\141\162\372\341\241\320\373\034\170
\140\246\103\231\305\270\304\002\041\000\234\002\357\361\224\234
\263\226\371\353\306\052\370\266\054\376\072\220\024\026\327\214
\143\044\110\034\337\060\175\325\150\073
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Amazon Root CA 3"
Issuer: CN=Amazon Root CA 3,O=Amazon,C=US
Serial Number:06:6c:9f:d5:74:97:36:66:3f:3b:0b:9a:d9:e8:9e:76:03:f2:4a
Subject: CN=Amazon Root CA 3,O=Amazon,C=US
Not Valid Before: Tue May 26 00:00:00 2015
Not Valid After : Sat May 26 00:00:00 2040
Fingerprint (SHA-256):
18:CE:6C:FE:7B:F1:4E:60:B2:E3:47:B8:DF:E8:68:CB:31:D0:2E:BB:3A:DA:27:15:69:F5:03:43:B4:6D:B3:A4
Fingerprint
(SHA1): 0D:44:DD:8C:3C:8C:1A:1A:58:75:64:81:E9:0F:2E:2A:FF:B3:D2:6E
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\015\104\335\214\074\214\032\032\130\165\144\201\351\017\056\052
\377\263\322\156
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\240\324\357\013\367\265\330\111\225\052\354\365\304\374\201\207

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END
CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\325\164\227\066\146\077\073\013\232\331\350
\236\166\003\362\112
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING
 CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Amazon Root CA 4"
#
# Issuer: CN=Amazon Root CA 4,O=Amazon,C=US
# Serial Number:06:6c:9f:d7:c1:bb:10:4c:29:43:e5:71:7b:7b:2c:c8:1a:c1:0e
# Subject: CN=Amazon Root CA 4,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sat May 26 00:00:00 2040
# Fingerprint (SHA-256):
E3:5D:28:41:9E:D0:20:25:CF:A6:90:38:CD:62:39:62:45:8D:A5:C6:95:FB:DE:A3:C2:2B:0B:FB:25:89:70:92
# Fingerprint (SHA1): F6:10:84:07:D6:F8:BB:67:98:0C:C2:E2:44:C2:EB:AE:1C:EF:63:BE
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\064
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\064
END
```

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CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\327\301\273\020\114\051\103\345\161\173\173
\054\310\032\301\016
END
CKA_VALUE MULTILINE_OCTAL
\060\202\001\362\060\202\001\170\240\003\002\001\002\002\023\006
\154\237\327\301\273\020\114\051\103\345\161\173\173\054\310\032
\301\016\060\012\006\010\052\206\110\316\075\004\003\003\060\071
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\017\060
\015\006\003\125\004\012\023\006\101\155\141\172\157\156\061\031
\060\027\006\003\125\004\003\023\020\101\155\141\172\157\156\040
\122\157\157\164\040\103\101\040\064\060\036\027\015\061\065\060
\065\062\066\060\060\060\060\060\060\132\027\015\064\060\060\065
\062\066\060\060\060\060\060\060\132\060\071\061\013\060\011\006
\003\125\004\006\023\002\125\123\061\017\060\015\006\003\125\004
\012\023\006\101\155\141\172\157\156\061\031\060\027\006\003\125
\004\003\023\020\101\155\141\172\157\156\040\122\157\157\164\040
\103\101\040\064\060\166\060\020\006\007\052\206\110\316\075\002
\001\006\005\053\201\004\000\042\003\142\000\004\322\253\212\067
\117\243\123\015\376\301\212\173\113\250\173\106\113\143\260\142
\366\055\033\333\010\161\041\322\000\350\143\275\232\047\373\360
\071\156\135\352\075\245\311\201\252\243\133\040\230\105\135\026
\333\375\350\020\155\343\234\340\343\275\137\204\142\363\160\144
\063\240\313\044\057\160\272\210\241\052\240\165\370\201\256\142
\006\304\201\333\071\156\051\260\036\372\056\134\243\102\060\100
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001
\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001
\206\060\035\006\003\125\035\016\004\026\004\024\323\354\307\072
\145\156\314\341\332\166\232\126\373\234\363\206\155\127\345\201
\060\012\006\010\052\206\110\316\075\004\003\003\003\150\000\060
\145\002\060\072\213\041\361\275\176\021\255\320\357\130\226\057
\326\353\235\176\220\215\053\317\146\125\303\054\343\050\251\160
\012\107\016\360\067\131\022\377\055\231\224\050\116\052\117\065
\115\063\132\002\061\000\352\165\000\116\073\304\072\224\022\221
\311\130\106\235\041\023\162\247\210\234\212\344\114\112\333\226
\324\254\213\153\153\111\022\123\063\255\327\344\276\044\374\265
\012\166\324\245\274\020
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Amazon Root CA 4"
# Issuer: CN=Amazon Root CA 4,O=Amazon,C=US
# Serial Number:06:6c:9f:d7:c1:bb:10:4c:29:43:e5:71:7b:7b:2c:c8:1a:c1:0e
# Subject: CN=Amazon Root CA 4,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
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# Not Valid After : Sat May 26 00:00:00 2040
# Fingerprint (SHA-256):
E3:5D:28:41:9E:D0:20:25:CF:A6:90:38:CD:62:39:62:45:8D:A5:C6:95:FB:DE:A3:C2:2B:0B:FB:25:89:70:92
#
 Fingerprint (SHA1): F6:10:84:07:D6:F8:BB:67:98:0C:C2:E2:44:C2:EB:AE:1C:EF:63:BE
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 4"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\366\020\204\007\326\370\273\147\230\014\302\342\104\302\353\256
\034\357\143\276
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\211\274\047\325\353\027\215\006\152\151\325\375\211\107\264\315
END
CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\064
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\327\301\273\020\114\051\103\345\161\173\173
\054\310\032\301\016
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION
 CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "D-TRUST Root CA 3 2013"
#
# Issuer: CN=D-TRUST Root CA 3 2013,O=D-Trust GmbH,C=DE
# Serial Number: 1039788 (0xfddac)
# Subject: CN=D-TRUST Root CA 3 2013,O=D-Trust GmbH,C=DE
# Not Valid Before: Fri Sep 20 08:25:51 2013
# Not Valid After : Wed Sep 20 08:25:51 2028
# Fingerprint (SHA-256):
A1:A8:6D:04:12:1E:B8:7F:02:7C:66:F5:33:03:C2:8E:57:39:F9:43:FC:84:B3:8A:D6:AF:00:90:35:DD:94:57
# Fingerprint (SHA1): 6C:7C:CC:E7:D4:AE:51:5F:99:08:CD:3F:F6:E8:C3:78:DF:6F:EF:97
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

CKA_LABEL UTF8 "D-TRUST Root CA 3 2013"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\037\060\035\006\003\125\004\003\014
\026\104\055\124\122\125\123\124\040\122\157\157\164\040\103\101
\040\063\040\062\060\061\063
END
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\037\060\035\006\003\125\004\003\014
\026\104\055\124\122\125\123\124\040\122\157\157\164\040\103\101
\040\063\040\062\060\061\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\017\335\254
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\016\060\202\002\366\240\003\002\001\002\002\003\017
\335\254\060\015\006\011\052\206\110\206\367\015\001\001\013\005
\000\060\105\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165
\163\164\040\107\155\142\110\061\037\060\035\006\003\125\004\003
\014\026\104\055\124\122\125\123\124\040\122\157\157\164\040\103
\101\040\063\040\062\060\061\063\060\036\027\015\061\063\060\071
\062\060\060\070\062\065\065\061\132\027\015\062\070\060\071\062
\060\060\070\062\065\065\061\132\060\105\061\013\060\011\006\003
\125\004\006\023\002\104\105\061\025\060\023\006\003\125\004\012
\014\014\104\055\124\162\165\163\164\040\107\155\142\110\061\037
\060\035\006\003\125\004\003\014\026\104\055\124\122\125\123\124
\040\122\157\157\164\040\103\101\040\063\040\062\060\061\063\060
\202\001\042\060\015\006\011\052\206\110\206\367\015\001\001\001
\005\000\003\202\001\017\000\060\202\001\012\002\202\001\001\000
\304\173\102\222\202\037\354\355\124\230\216\022\300\312\011\337
\223\156\072\223\134\033\344\020\167\236\116\151\210\154\366\341
\151\362\366\233\242\141\261\275\007\040\164\230\145\361\214\046
\010\315\250\065\312\200\066\321\143\155\350\104\172\202\303\154
\136\336\273\350\066\322\304\150\066\214\237\062\275\204\042\340
\334\302\356\020\106\071\155\257\223\071\256\207\346\303\274\011
\311\054\153\147\133\331\233\166\165\114\013\340\273\305\327\274
\076\171\362\137\276\321\220\127\371\256\366\146\137\061\277\323
\155\217\247\272\112\363\043\145\273\267\357\243\045\327\012\352
\130\266\357\210\372\372\171\262\122\130\325\360\254\214\241\121
\164\051\225\252\121\073\220\062\003\237\034\162\164\220\336\075

\355\141\322\345\343\375\144\107\345\271\267\112\251\367\037\256
\226\206\004\254\057\343\244\201\167\267\132\026\377\330\017\077
\366\267\170\314\244\257\372\133\074\022\133\250\122\211\162\357
\210\363\325\104\201\206\225\043\237\173\335\274\331\064\357\174
\224\074\252\300\101\302\343\235\120\032\300\344\031\042\374\263
\002\003\001\000\001\243\202\001\005\060\202\001\001\060\017\006
\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060\035
\006\003\125\035\016\004\026\004\024\077\220\310\175\307\025\157
\363\044\217\251\303\057\113\242\017\041\262\057\347\060\016\006
\003\125\035\017\001\001\377\004\004\003\002\001\006\060\201\276
\006\003\125\035\037\004\201\266\060\201\263\060\164\240\162\240
\160\206\156\154\144\141\160\072\057\057\144\151\162\145\143\164
\157\162\171\056\144\055\164\162\165\163\164\056\156\145\164\057
\103\116\075\104\055\124\122\125\123\124\045\062\060\122\157\157
\164\045\062\060\103\101\045\062\060\063\045\062\060\062\060\061
\063\054\117\075\104\055\124\162\165\163\164\045\062\060\107\155
\142\110\054\103\075\104\105\077\143\145\162\164\151\146\151\143
\141\164\145\162\145\166\157\143\141\164\151\157\156\154\151\163
\164\060\073\240\071\240\067\206\065\150\164\164\160\072\057\057
\143\162\154\056\144\055\164\162\165\163\164\056\156\145\164\057
\143\162\154\057\144\055\164\162\165\163\164\137\162\157\157\164
\137\143\141\137\063\137\062\060\061\063\056\143\162\154\060\015
\006\011\052\206\110\206\367\015\001\001\013\005\000\003\202\001
\001\000\016\131\016\130\344\164\110\043\104\317\064\041\265\234
\024\032\255\232\113\267\263\210\155\134\251\027\160\360\052\237
\215\173\371\173\205\372\307\071\350\020\010\260\065\053\137\317
\002\322\323\234\310\013\036\356\005\124\256\067\223\004\011\175
\154\217\302\164\274\370\034\224\276\061\001\100\055\363\044\040
\267\204\125\054\134\310\365\164\112\020\031\213\243\307\355\065
\326\011\110\323\016\300\272\071\250\260\106\002\260\333\306\210
\131\302\276\374\173\261\053\317\176\142\207\125\226\314\001\157
\233\147\041\225\065\213\370\020\374\161\033\267\113\067\151\246
\073\326\354\213\356\301\260\363\045\311\217\222\175\241\352\303
\312\104\277\046\245\164\222\234\343\164\353\235\164\331\313\115
\207\330\374\264\151\154\213\240\103\007\140\170\227\351\331\223
\174\302\106\274\233\067\122\243\355\212\074\023\251\173\123\113
\111\232\021\005\054\013\156\126\254\037\056\202\154\340\151\147
\265\016\155\055\331\344\300\025\361\077\372\030\162\341\025\155
\047\133\055\060\050\053\237\110\232\144\053\231\357\362\165\111
\137\134
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

#

```
 Trust for "D-TRUST Root CA 3 2013"
# Issuer: CN=D-TRUST Root CA 3 2013,O=D-Trust GmbH,C=DE
# Serial Number: 1039788 (0xfddac)
# Subject: CN=D-TRUST Root CA 3 2013,O=D-Trust GmbH,C=DE
# Not Valid Before: Fri Sep 20 08:25:51 2013
# Not Valid After : Wed Sep 20 08:25:51 2028
# Fingerprint (SHA-256):
A1:A8:6D:04:12:1E:B8:7F:02:7C:66:F5:33:03:C2:8E:57:39:F9:43:FC:84:B3:8A:D6:AF:00:90:35:DD:94:57
# Fingerprint (SHA1): 6C:7C:CC:E7:D4:AE:51:5F:99:08:CD:3F:F6:E8:C3:78:DF:6F:EF:97
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root CA 3 2013"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\154\174\314\347\324\256\121\137\231\010\315\077\366\350\303\170
\337\157\357\227
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\267\042\146\230\176\326\003\340\301\161\346\165\315\126\105\277
END
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\037\060\035\006\003\125\004\003\014
\026\104\055\124\122\125\123\124\040\122\157\157\164\040\103\101
\040\063\040\062\060\061\063
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\003\017\335\254
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1"
#
# Issuer: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1,OU=Kamu Sertifikasyon Merkezi - Kamu
SM,O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK,L=Gebze - Kocaeli,C=TR
# Serial Number: 1 (0x1)
# Subject: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1,OU=Kamu Sertifikasyon Merkezi - Kamu
SM,O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK,L=Gebze - Kocaeli,C=TR
# Not Valid Before: Mon Nov 25 08:25:55 2013
# Not Valid After : Sun
```

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 Oct 25 08:25:55 2043
# Fingerprint (SHA-256):
46:ED:C3:68:90:46:D5:3A:45:3F:B3:10:4A:B8:0D:CA:EC:65:8B:26:60:EA:16:29:DD:7E:86:79:90:64:87:16
# Fingerprint (SHA1): 31:43:64:9B:EC:CE:27:EC:ED:3A:3F:0B:8F:0D:E4:E8:91:DD:EE:CA
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\322\061\013\060\011\006\003\125\004\006\023\002\124\122
\061\030\060\026\006\003\125\004\007\023\017\107\145\142\172\145
\040\055\040\113\157\143\141\145\154\151\061\102\060\100\006\003
\125\004\012\023\071\124\165\162\153\151\171\145\040\102\151\154
\151\155\163\145\154\040\166\145\040\124\145\153\156\157\154\157
\152\151\153\040\101\162\141\163\164\151\162\155\141\040\113\165
\162\165\155\165\040\055\040\124\125\102\111\124\101\113\061\055
\060\053\006\003\125\004\013\023\044\113\141\155\165\040\123\145
\162\164\151\146\151\153\141\163\171\157\156\040\115\145\162\153
\145\172\151\040\055\040\113\141\155\165\040\123\115\061\066\060
\064\006\003\125\004\003\023\055\124\125\102\111\124\101\113\040
\113\141\155\165\040\123\115\040\123\123\114\040\113\157\153\040
\123\145\162\164\151\146\151\153\141\163\151\040\055\040\123\165
\162\165\155\040\061
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\322\061\013\060\011\006\003\125\004\006\023\002\124\122
\061\030\060\026\006\003\125\004\007\023\017\107\145\142\172\145
\040\055\040\113\157\143\141\145\154\151\061\102\060\100\006\003
\125\004\012\023\071\124\165\162\153\151\171\145\040\102\151\154
\151\155\163\145\154\040\166\145\040\124\145\153\156\157\154\157
\152\151\153\040\101\162\141\163\164\151\162\155\141\040\113\165
\162\165\155\165\040\055\040\124\125\102\111\124\101\113\061\055
\060\053\006\003\125\004\013\023\044\113\141\155\165\040\123\145
\162\164\151\146\151\153\141\163\171\157\156\040\115\145\162\153
\145\172\151\040\055\040\113\141\155\165\040\123\115\061\066\060
\064\006\003\125\004\003\023\055\124\125\102\111\124\101\113\040
\113\141\155\165\040\123\115\040\123\123\114\040\113\157\153\040
\123\145\162\164\151\146\151\153\141\163\151\040\055\040\123\165
\162\165\155\040\061
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\001\001
END
```

CKA_VALUE MULTILINE_OCTAL

\060\202\004\143\060\202\003\113\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\201\322\061\013\060\011\006\003\125\004\006\023\002\124\122\061
\030\060\026\006\003\125\004\007\023\017\107\145\142\172\145\040
\055\040\113\157\143\141\145\154\151\061\102\060\100\006\003\125
\004\012\023\071\124\165\162\153\151\171\145\040\102\151\154\151
\155\163\145\154\040\166\145\040\124\145\153\156\157\154\157\152
\151\153\040\101\162\141\163\164\151\162\155\141\040\113\165\162
\165\155\165\040\055\040\124\125\102\111\124\101\113\061\055\060
\053\006\003\125\004\013\023\044\113\141\155\165\040\123\145\162
\164\151\146\151\153\141\163\171\157\156\040\115\145\162\153\145
\172\151\040\055\040\113\141\155\165\040\123\115\061\066\060\064
\006\003\125\004\003\023\055\124\125\102\111\124\101\113\040\113
\141\155\165\040\123\115\040\123\123\114\040\113\157\153\040\123
\145\162\164\151\146\151\153\141\163\151\040\055\040\123\165\162
\165\155\040\061\060\036\027\015\061\063\061\061\062\065\060\070
\062\065\065\065\132\027\015\064\063\061\060\062\065\060\070\062
\065\065\065\132\060\201\322\061\013\060\011\006\003\125\004\006
\023\002\124\122\061\030\060\026\006\003\125\004\007\023\017\107
\145\142\172\145\040\055\040\113\157\143\141\145\154\151\061\102
\060\100\006\003\125\004\012\023\071\124\165\162\153\151\171\145
\040\102\151\154\151\155\163\145\154\040\166\145\040\124\145\153
\156\157\154\157\152\151\153\040\101\162\141\163\164\151\162\155
\141\040\113\165\162\165\155\165\040\055\040\124\125\102\111\124
\101\113\061\055\060\053\006\003\125\004\013\023\044\113\141\155
\165\040\123\145\162\164\151\146\151\153\141\163\171\157\156\040
\115\145\162\153\145\172\151\040\055\040\113\141\155\165\040\123
\115\061\066\060\064\006\003\125\004\003\023\055\124\125\102\111
\124\101\113\040\113\141\155\165\040\123\115\040\123\123\114\040
\113\157\153\040\123\145\162\164\151\146\151\153\141\163\151\040
\055\040\123\165\162\165\155\040\061\060\202\001\042\060\015\006
\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017
\000\060\202\001\012\002\202\001\001\000\257\165\060\063\252\273
\153\323\231\054\022\067\204\331\215\173\227\200\323\156\347\377
\233\120\225\076\220\225\126\102\327\031\174\046\204\215\222\372
\001\035\072\017\342\144\070\267\214\274\350\210\371\213\044\253
\056\243\365\067\344\100\216\030\045\171\203\165\037\073\377\154
\250\305\306\126\370\264\355\212\104\243\253\154\114\374\035\320
\334\357\150\275\317\344\252\316\360\125\367\242\064\324\203\153
\067\174\034\302\376\265\003\354\127\316\274\264\265\305\355\000
\017\123\067\052\115\364\117\014\203\373\206\317\313\376\214\116
\275\207\371\247\213\041\127\234\172\337\003\147\211\054\235\227
\141\247\020\270\125\220\177\016\055\047\070\164\337\347\375\332
\116\022\343\115\025\042\002\310\340\340\374\017\255\212\327\311
\124\120\314\073\017\312\026\200\204\320\121\126\303\216\126\177
\211\042\063\057\346\205\012\275\245\250\033\066\336\323\334\054
\155\073\307\023\275\131\043\054\346\345\244\367\330\013\355\352

\220\100\104\250\225\273\223\325\320\200\064\266\106\170\016\037
\000\223\106\341\356\351\371\354\117\027\002\003\001\000\001\243
\102\060\100\060\035\006\003\125\035\016\004\026\004\024\145\077
\307\212\206\306\074\335\074\124\134\065\370\072\355\122\014\107
\127\310\060\016\006\003\125\035\017\001\001\377\004\004\003\002
\001\006\060\017\006\003\125\035\023\001\001\377\004\005\060\003
\001\001\377\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\003\202\001\001\000\052\077\341\361\062\216\256\341\230
\134\113\136\317\153\036\152\011\322\042\251\022\307\136\127\175
\163\126\144\200\204\172\223\344\011\271\020\315\237\052\047\341
\000\167\276\110\310\065\250\201\237\344\270\054\311\177\016\260
\322\113\067\135\352\271\325\013\136\064\275\364\163\051\303\355
\046\025\234\176\010\123\212\130\215\320\113\050\337\301\263\337
\040\363\371\343\343\072\337\314\234\224\330\116\117\303\153\027
\267\367\162\350\255\146\063\265\045\123\253\340\370\114\251\235
\375\362\015\272\256\271\331\252\306\153\371\223\273\256\253\270
\227\074\003\032\272\103\306\226\271\105\162\070\263\247\241\226
\075\221\173\176\300\041\123\114\207\355\362\013\124\225\121\223
\325\042\245\015\212\361\223\016\076\124\016\260\330\311\116\334
\362\061\062\126\352\144\371\352\265\235\026\146\102\162\363\177
\323\261\061\103\374\244\216\027\361\155\043\253\224\146\370\255
\373\017\010\156\046\055\177\027\007\011\262\214\373\120\300\237
\226\215\317\266\375\000\235\132\024\232\277\002\104\365\301\302
\237\042\136\242\017\241\343
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER
CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1"
Issuer: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1,OU=Kamu Sertifikasyon Merkezi - Kamu SM,O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK,L=Gebze - Kocaeli,C=TR
Serial Number: 1 (0x1)
Subject: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1,OU=Kamu Sertifikasyon Merkezi - Kamu SM,O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK,L=Gebze - Kocaeli,C=TR
Not Valid Before: Mon Nov 25 08:25:55 2013
Not Valid After : Sun Oct 25 08:25:55 2043
Fingerprint (SHA-256):
46:ED:C3:68:90:46:D5:3A:45:3F:B3:10:4A:B8:0D:CA:EC:65:8B:26:60:EA:16:29:DD:7E:86:79:90:64:87:16
Fingerprint (SHA1): 31:43:64:9B:EC:CE:27:EC:ED:3A:3F:0B:8F:0D:E4:E8:91:DD:EE:CA
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TUBITAK Kamu SM SSL Kok Sertifikasi

```
 - Surum 1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\061\103\144\233\354\316\047\354\355\072\077\013\217\015\344\350
\221\335\356\312
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\334\000\201\334\151\057\076\057\260\073\366\075\132\221\216\111
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\322\061\013\060\011\006\003\125\004\006\023\002\124\122
\061\030\060\026\006\003\125\004\007\023\017\107\145\142\172\145
\040\055\040\113\157\143\141\145\154\151\061\102\060\100\006\003
\125\004\012\023\071\124\165\162\153\151\171\145\040\102\151\154
\151\155\163\145\154\040\166\145\040\124\145\153\156\157\154\157
\152\151\153\040\101\162\141\163\164\151\162\155\141\040\113\165
\162\165\155\165\040\055\040\124\125\102\111\124\101\113\061\055
\060\053\006\003\125\004\013\023\044\113\141\155\165\040\123\145
\162\164\151\146\151\153\141\163\171\157\156\040\115\145\162\153
\145\172\151\040\055\040\113\141\155\165\040\123\115\061\066\060
\064\006\003\125\004\003\023\055\124\125\102\111\124\101\113\040
\113\141\155\165\040\123\115\040\123\123\114\040\113\157\153\040
\123\145\162\164\151\146\151\153\141\163\151\040\055\040\123\165
\162\165\155\040\061
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "GDCA TrustAUTH R5 ROOT"
#
# Issuer: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY
CO.,LTD.",C=CN
# Serial Number:7d:09:97:fe:f0:47:ea:7a
# Subject: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY
CO.,LTD.",C=CN
# Not Valid Before: Wed Nov 26 05:13:15 2014
# Not Valid After : Mon Dec 31 15:59:59 2040
# Fingerprint (SHA-256):
BF:FF:8F:D0:44:33:48:7D:6A:8A:A6:0C:1A:29:76:7A:9F:C2:BB:B0:5E:42:0F:71:3A:13:B9:92:89:1D:38:93
# Fingerprint (SHA1): 0F:36:38:5B:81:1A:25:C3:9B:31:4E:83:CA:E9:34:66:70:CC:74:B4
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN
```

CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GDCA TrustAUTH R5 ROOT"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\142\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\062\060\060\006\003\125\004\012\014\051\107\125\101\116\107\040
\104\117\116\107\040\103\105\122\124\111\106\111\103\101\124\105
\040\101\125\124\110\117\122\111\124\131\040\103\117\056\054\114
\124\104\056\061\037\060\035\006\003\125\004\003\014\026\107\104
\103\101\040\124\162\165\163\164\101\125\124\110\040\122\065\040
\122\117\117\124
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\142\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\062\060\060\006\003\125\004\012\014\051\107\125\101\116\107\040
\104\117\116\107\040\103\105\122\124\111\106\111\103\101\124\105
\040\101\125\124\110\117\122\111\124\131\040\103\117\056\054\114
\124\104\056\061\037\060\035\006\003\125\004\003\014\026\107\104
\103\101\040\124\162\165\163\164\101\125\124\110\040\122\065\040
\122\117\117\124
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\010\175\011\227\376\360\107\352\172
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\210\060\202\003\160\240\003\002\001\002\002\010\175
\011\227\376\360\107\352\172\060\015\006\011\052\206\110\206\367
\015\001\001\013\005\000\060\142\061\013\060\011\006\003\125\004
\006\023\002\103\116\061\062\060\060\006\003\125\004\012\014\051
\107\125\101\116\107\040\104\117\116\107\040\103\105\122\124\111
\106\111\103\101\124\105\040\101\125\124\110\117\122\111\124\131
\040\103\117\056\054\114\124\104\056\061\037\060\035\006\003\125
\004\003\014\026\107\104\103\101\040\124\162\165\163\164\101\125
\124\110\040\122\065\040\122\117\117\124\060\036\027\015\061\064
\061\061\062\066\060\065\061\063\061\065\132\027\015\064\060\061
\062\063\061\061\065\065\071\065\071\132\060\142\061\013\060\011
\006\003\125\004\006\023\002\103\116\061\062\060\060\006\003\125
\004\012\014\051\107\125\101\116\107\040\104\117\116\107\040\103
\105\122\124\111\106\111\103\101\124\105\040\101\125\124\110\117
\122\111\124\131\040\103\117\056\054\114\124\104\056\061\037\060
\035\006\003\125\004\003\014\026\107\104\103\101\040\124\162\165
\163\164\101\125\124\110\040\122\065\040\122\117\117\124\060\202
\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005
\000\003\202\002\017\000\060\202\002\012\002\202\002\001\000\331

\243\026\360\310\164\164\167\233\357\063\015\073\006\176\125\374
\265\140\217\166\206\022\102\175\126\146\076\210\202\355\162\143
\016\236\213\335\064\054\002\121\121\303\031\375\131\124\204\311
\361\153\263\114\260\351\350\106\135\070\306\242\247\056\021\127
\272\202\025\242\234\217\155\260\231\112\012\362\353\211\160\143
\116\171\304\267\133\275\242\135\261\362\101\002\053\255\251\072
\243\354\171\012\354\137\072\343\375\357\200\074\255\064\233\032
\253\210\046\173\126\242\202\206\037\353\065\211\203\177\137\256
\051\116\075\266\156\354\256\301\360\047\233\256\343\364\354\357
\256\177\367\206\075\162\172\353\245\373\131\116\247\353\225\214
\042\071\171\341\055\010\217\314\274\221\270\101\367\024\301\043
\251\303\255\232\105\104\263\262\327\054\315\306\051\342\120\020
\256\134\313\202\216\027\030\066\175\227\346\210\232\260\115\064
\011\364\054\271\132\146\052\260\027\233\236\036\166\235\112\146
\061\101\337\077\373\305\006\357\033\266\176\032\106\066\367\144
\143\073\343\071\030\043\347\147\165\024\325\165\127\222\067\275
\276\152\033\046\120\362\066\046\006\220\305\160\001\144\155\166
\146\341\221\333\156\007\300\141\200\056\262\056\057\214\160\247
\321\073\074\263\221\344\156\266\304\073\160\362\154\222\227\011
\315\107\175\030\300\363\273\236\017\326\213\256\007\266\132\017
\316\013\014\107\247\345\076\270\275\175\307\233\065\240\141\227
\072\101\165\027\314\053\226\167\052\222\041\036\331\225\166\040
\147\150\317\015\275\337\326\037\011\152\232\342\314\163\161\244
\057\175\022\200\267\123\060\106\136\113\124\231\017\147\311\245
\310\362\040\301\202\354\235\021\337\302\002\373\032\073\321\355
\040\232\357\145\144\222\020\015\052\342\336\160\361\030\147\202
\214\141\336\270\274\321\057\234\373\017\320\053\355\033\166\271
\344\071\125\370\370\241\035\270\252\200\000\114\202\347\262\177
\011\270\274\060\240\057\015\365\122\236\216\367\222\263\012\000
\035\000\124\227\006\340\261\007\331\307\017\134\145\175\074\155
\131\127\344\355\245\215\351\100\123\237\025\113\240\161\366\032
\041\343\332\160\006\041\130\024\207\205\167\171\252\202\171\002
\003\001\000\001\243\102\060\100\060\035\006\003\125\035\016\004
\026\004\024\342\311\100\237\115\316\350\232\241\174\317\016\077
\145\305\051\210\152\031\121\060\017\006\003\125\035\023\001\001
\377\004\005\060\003\001\001\377\060\016\006\003\125\035\017\001
\001\377\004\004\003\002\001\206\060\015\006\011\052\206\110\206
\367\015\001\001\013\005\000\003\202\002\001\000\321\111\127\340
\247\314\150\130\272\001\017\053\031\315\215\260\141\105\254\021
\355\143\120\151\370\037\177\276\026\217\375\235\353\013\252\062
\107\166\322\147\044\355\275\174\063\062\227\052\307\005\206\146
\015\027\175\024\025\033\324\353\375\037\232\366\136\227\151\267
\032\045\244\012\263\221\077\137\066\254\213\354\127\250\076\347
\201\212\030\127\071\205\164\032\102\307\351\133\023\137\217\371
\010\351\222\164\215\365\107\322\253\073\326\373\170\146\116\066
\175\371\351\222\351\004\336\375\111\143\374\155\373\024\161\223
\147\057\107\112\267\271\377\036\052\163\160\106\060\277\132\362
\057\171\245\341\215\014\331\371\262\143\067\214\067\145\205\160

\152\134\133\011\162\271\255\143\074\261\335\370\374\062\277\067
\206\344\273\216\230\047\176\272\037\026\341\160\021\362\003\337
\045\142\062\047\046\030\062\204\237\377\000\072\023\272\232\115
\364\117\270\024\160\042\261\312\053\220\316\051\301\160\364\057
\235\177\362\220\036\326\132\337\267\106\374\346\206\372\313\340
\040\166\172\272\246\313\365\174\336\142\245\261\213\356\336\202
\146\212\116\072\060\037\077\200\313\255\047\272\014\136\327\320
\261\126\312\167\161\262\265\165\241\120\251\100\103\027\302\050
\331\317\122\213\133\310\143\324\102\076\240\063\172\106\056\367
\012\040\106\124\176\152\117\061\361\201\176\102\164\070\145\163
\047\356\306\174\270\216\327\245\072\327\230\241\234\214\020\125
\323\333\113\354\100\220\362\315\156\127\322\142\016\174\127\223
\261\247\155\315\235\203\273\052\347\345\266\073\161\130\255\375
\321\105\274\132\221\356\123\025\157\323\105\011\165\156\272\220
\135\036\004\317\067\337\036\250\146\261\214\346\040\152\357\374
\110\116\164\230\102\257\051\157\056\152\307\373\175\321\146\061
\042\314\206\000\176\146\203\014\102\364\275\064\222\303\032\352
\117\312\176\162\115\013\160\214\246\110\273\246\241\024\366\373
\130\104\231\024\256\252\013\223\151\240\051\045\112\245\313\053
\335\212\146\007\026\170\025\127\161\033\354\365\107\204\363\236
\061\067\172\325\177\044\255\344\274\375\375\314\156\203\350\014
\250\267\101\154\007\335\275\074\206\227\057\322
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER
 CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "GDCA TrustAUTH R5 ROOT"
Issuer: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY
CO.,LTD.",C=CN
Serial Number:7d:09:97:fe:f0:47:ea:7a
Subject: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY
CO.,LTD.",C=CN
Not Valid Before: Wed Nov 26 05:13:15 2014
Not Valid After : Mon Dec 31 15:59:59 2040
Fingerprint (SHA-256):
BF:FF:8F:D0:44:33:48:7D:6A:8A:A6:0C:1A:29:76:7A:9F:C2:BB:B0:5E:42:0F:71:3A:13:B9:92:89:1D:38:93
Fingerprint (SHA1): 0F:36:38:5B:81:1A:25:C3:9B:31:4E:83:CA:E9:34:66:70:CC:74:B4
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GDCA TrustAUTH R5 ROOT"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\017\066\070\133\201\032\045\303\233\061\116\203\312\351\064\146
\160\314\164\264

```
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\143\314\331\075\064\065\134\157\123\243\342\010\160\110\037\264
END
CKA_ISSUER
 MULTILINE_OCTAL
\060\142\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\062\060\060\006\003\125\004\012\014\051\107\125\101\116\107\040
\104\117\116\107\040\103\105\122\124\111\106\111\103\101\124\105
\040\101\125\124\110\117\122\111\124\131\040\103\117\056\054\114
\124\104\056\061\037\060\035\006\003\125\004\003\014\026\107\104
\103\101\040\124\162\165\163\164\101\125\124\110\040\122\065\040
\122\117\117\124
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\175\011\227\376\360\107\352\172
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "SSL.com Root Certification Authority RSA"
#
# Issuer: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number:7b:2c:9b:d3:16:80:32:99
# Subject: CN=SSL.com Root Certification
 Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid Before: Fri Feb 12 17:39:39 2016
# Not Valid After : Tue Feb 12 17:39:39 2041
# Fingerprint (SHA-256):
85:66:6A:56:2E:E0:BE:5C:E9:25:C1:D8:89:0A:6F:76:A8:7E:C1:6D:4D:7D:5F:29:EA:74:19:CF:20:12:3B:69
# Fingerprint (SHA1): B7:AB:33:08:D1:EA:44:77:BA:14:80:12:5A:6F:BD:A9:36:49:0C:BB
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com Root Certification Authority RSA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\174\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057\006
\003\125\004\003\014\050\123\123\114\056\143\157\155\040\122\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156
```

\040\101\165\164\150\157\162\151\164\171\040\122\123\101
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\174\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057\006
\003\125\004\003\014\050\123\123\114\056\143\157\155\040\122\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\040\122\123\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\173\054\233\323\026\200\062\231
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\335\060\202\003\305\240\003\002\001\002\002\010\173
\054\233\323\026\200\062\231\060\015\006\011\052\206\110\206\367
\015\001\001\013\005\000\060\174\061\013\060\011\006\003\125\004
\006\023\002\125\123\061\016\060\014\006\003\125\004\010\014\005
\124\145\170\141\163\061\020\060\016\006\003\125\004\007\014\007
\110\157\165\163\164\157\156\061\030\060\026\006\003\125\004\012
\014\017\123\123\114\040\103\157\162\160\157\162\141\164\151\157
\156\061\061\060\057\006\003\125\004\003\014\050\123\123\114\056
\143\157\155\040\122\157\157\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
\040\122\123\101\060\036\027\015\061\066\060\062\061\062\061\067
\063\071\063\071\132\027\015\064\061\060\062\061\062\061\067\063
\071\063\071\132\060\174\061\013\060\011\006\003\125\004\006\023
\002\125\123\061\016\060\014\006\003\125\004\010\014\005\124\145
\170\141\163\061\020\060\016\006\003\125\004\007\014\007\110\157
\165\163\164\157\156\061\030\060\026\006\003\125\004\012\014\017
\123\123\114\040\103\157\162\160\157\162\141\164\151\157\156\061
\061\060\057\006\003\125\004\003\014\050\123\123\114\056\143\157
\155\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\122
\123\101\060\202\002\042\060\015\006\011\052\206\110\206\367\015
\001\001\001\005\000\003\202\002\017\000\060\202\002\012\002\202
\002\001\000\371\017\335\243\053\175\313\320\052\376\354\147\205
\246\347\056\033\272\167\341\343\365\257\244\354\372\112\135\221
\304\127\107\153\030\167\153\166\362\375\223\344\075\017\302\026
\236\013\146\303\126\224\236\027\203\205\316\126\357\362\026\375
\000\142\365\042\011\124\350\145\027\116\101\271\340\117\106\227
\252\033\310\270\156\142\136\151\261\137\333\052\002\176\374\154
\312\363\101\330\355\320\350\374\077\141\110\355\260\003\024\035
\020\016\113\031\340\273\116\354\206\145\377\066\363\136\147\002

\013\235\206\125\141\375\172\070\355\376\342\031\000\267\157\241
\120\142\165\164\074\240\372\310\045\222\264\156\172\042\307\370
\036\241\343\262\335\221\061\253\053\035\004\377\245\112\004\067
\351\205\244\063\053\375\342\326\125\064\174\031\244\112\150\307
\262\250\323\267\312\241\223\210\353\301\227\274\214\371\035\331
\042\204\044\164\307\004\075\152\251\051\223\314\353\270\133\341
\376\137\045\252\064\130\310\301\043\124\235\033\230\021\303\070
\234\176\075\206\154\245\017\100\206\174\002\364\134\002\117\050
\313\256\161\237\017\072\310\063\376\021\045\065\352\374\272\305
\140\075\331\174\030\325\262\251\323\165\170\003\162\042\312\072
\303\037\357\054\345\056\251\372\236\054\266\121\106\375\257\003
\326\352\140\150\352\205\026\066\153\205\351\036\300\263\335\304
\044\334\200\052\201\101\155\224\076\310\340\311\201\101\000\236
\136\277\177\305\010\230\242\030\054\102\100\263\371\157\070\047
\113\116\200\364\075\201\107\340\210\174\352\034\316\265\165\134
\121\056\034\053\177\032\162\050\347\000\265\321\164\306\327\344
\237\255\007\223\266\123\065\065\374\067\344\303\366\135\026\276
\041\163\336\222\012\370\240\143\152\274\226\222\152\076\370\274
\145\125\233\336\365\015\211\046\004\374\045\032\246\045\151\313
\302\155\312\174\342\131\137\227\254\353\357\056\310\274\327\033
\131\074\053\314\362\031\310\223\153\047\143\031\317\374\351\046
\370\312\161\233\177\223\376\064\147\204\116\231\353\374\263\170
\011\063\160\272\146\246\166\355\033\163\353\032\245\015\304\042
\023\040\224\126\012\116\054\154\116\261\375\317\234\011\272\242
\063\355\207\002\003\001\000\001\243\143\060\141\060\035\006\003
\125\035\016\004\026\004\024\335\004\011\007\242\365\172\175\122
\123\022\222\225\356\070\200\045\015\246\131\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\037\006\003
\125\035\043\004\030\060\026\200\024\335\004\011\007\242\365\172
\175\122\123\022\222\225\356\070\200\045\015\246\131\060\016\006
\003\125\035\017\001\001\377\004\004\003\002\001\206\060\015\006
\011\052\206\110\206\367\015\001\001\013\005\000\003\202\002\001
\000\040\030\021\224\051\373\046\235\034\036\036\160\141\361\225
\162\223\161\044\255\150\223\130\216\062\257\033\263\160\003\374
\045\053\164\205\220\075\170\152\364\271\213\245\227\073\265\030
\221\273\036\247\371\100\133\221\371\125\231\257\036\021\320\134
\035\247\146\343\261\224\007\014\062\071\246\352\033\260\171\330
\035\234\160\104\343\212\335\304\371\225\037\212\070\103\077\001
\205\245\107\247\075\106\262\274\345\042\150\367\173\234\330\054
\076\012\041\310\055\063\254\277\305\201\231\061\164\301\165\161
\305\276\261\360\043\105\364\235\153\374\031\143\235\243\274\004
\306\030\013\045\273\123\211\017\263\200\120\336\105\356\104\177
\253\224\170\144\230\323\366\050\335\207\330\160\145\164\373\016
\271\023\353\247\017\141\251\062\226\314\336\273\355\143\114\030
\273\251\100\367\240\124\156\040\210\161\165\030\352\172\264\064
\162\340\043\047\167\134\266\220\352\206\045\100\253\357\063\017
\313\237\202\276\242\040\373\366\265\055\032\346\302\205\261\164
\017\373\310\145\002\244\122\001\107\335\111\042\301\277\330\353

\153\254\176\336\354\143\063\025\267\043\010\217\306\017\215\101
\132\335\216\305\271\217\345\105\077\170\333\272\322\033\100\261
\376\161\115\077\340\201\242\272\136\264\354\025\340\223\335\010
\037\176\341\125\231\013\041\336\223\236\012\373\346\243\111\275
\066\060\376\347\167\262\240\165\227\265\055\201\210\027\145\040
\367\332\220\000\237\311\122\314\062\312\065\174\365\075\017\330
\053\327\365\046\154\311\006\064\226\026\352\160\131\032\062\171
\171\013\266\210\177\017\122\110\075\277\154\330\242\104\056\321
\116\267\162\130\323\211\023\225\376\104\253\370\327\213\033\156
\234\274\054\240\133\325\152\000\257\137\067\341\325\372\020\013
\230\234\206\347\046\217\316\360\354\156\212\127\013\200\343\116
\262\300\240\143\141\220\272\125\150\067\164\152\266\222\333\237
\241\206\042\266\145\047\016\354\266\237\102\140\344\147\302\265
\332\101\013\304\323\213\141\033\274\372\037\221\053\327\104\007
\136\272\051\254\331\305\351\357\123\110\132\353\200\361\050\130
\041\315\260\006\125\373\047\077\123\220\160\251\004\036\127\047
\271
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER
 CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "SSL.com Root Certification Authority RSA"
Issuer: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
Serial Number:7b:2c:9b:d3:16:80:32:99
Subject: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
Not Valid Before: Fri Feb 12 17:39:39 2016
Not Valid After : Tue Feb 12 17:39:39 2041
Fingerprint (SHA-256):
85:66:6A:56:2E:E0:BE:5C:E9:25:C1:D8:89:0A:6F:76:A8:7E:C1:6D:4D:7D:5F:29:EA:74:19:CF:20:12:3B:69
Fingerprint (SHA1): B7:AB:33:08:D1:EA:44:77:BA:14:80:12:5A:6F:BD:A9:36:49:0C:BB
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com Root Certification Authority RSA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\267\253\063\010\321\352\104\167\272\024\200\022\132\157\275\251
\066\111\014\273
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\206\151\022\300\160\361\354\254\254\302\325\274\245\133\241\051
END
CKA_ISSUER
 MULTILINE_OCTAL
\060\174\061\013\060\011\006\003\125\004\006\023\002\125\123\061

\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057\006
\003\125\004\003\014\050\123\123\114\056\143\157\155\040\122\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\040\122\123\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\173\054\233\323\026\200\062\231
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "SSL.com Root Certification Authority ECC"
#
Issuer: CN=SSL.com Root Certification
 Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
Serial Number:75:e6:df:cb:c1:68:5b:a8
Subject: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
Not Valid Before: Fri Feb 12 18:14:03 2016
Not Valid After : Tue Feb 12 18:14:03 2041
Fingerprint (SHA-256):
34:17:BB:06:CC:60:07:DA:1B:96:1C:92:0B:8A:B4:CE:3F:AD:82:0E:4A:A3:0B:9A:CB:C4:A7:4E:BD:CE:BC:65
Fingerprint (SHA1): C3:19:7C:39:24:E6:54:AF:1B:C4:AB:20:95:7A:E2:C3:0E:13:02:6A
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com Root Certification Authority ECC"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\174\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057\006
\003\125\004\003\014\050\123\123\114\056\143\157\155\040\122\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\040\105\103\103
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\174\061\013\060\011\006\003\125\004\006\023\002\125\123\061

\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057\006
\003\125\004\003\014\050\123\123\114\056\143\157\155\040\122\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\040\105\103\103
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\165\346\337\313\301\150\133\250
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\215\060\202\002\024\240\003\002\001\002\002\010\165
\346\337\313\301\150\133\250\060\012\006\010\052\206\110\316\075
\004\003\002\060\174\061\013\060\011\006\003\125\004\006\023\002
\125\123\061\016\060\014\006\003\125\004\010\014\005\124\145\170
\141\163\061\020\060\016\006\003\125\004\007\014\007\110\157\165
\163\164\157\156\061\030\060\026\006\003\125\004\012\014\017\123
\123\114\040\103\157\162\160\157\162\141\164\151\157\156\061\061
\060\057\006\003\125\004\003\014\050\123\123\114\056\143\157\155
\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\040\105\103
\103\060\036\027\015\061\066\060\062\061\062\061\070\061\064\060
\063\132\027\015\064\061\060\062\061\062\061\070\061\064\060\063
\132\060\174\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163
\061\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164
\157\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114
\040\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057
\006\003\125\004\003\014\050\123\123\114\056\143\157\155\040\122
\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\040\105\103\103\060
\166\060\020\006\007\052\206\110\316\075\002\001\006\005\053\201
\004\000\042\003\142\000\004\105\156\251\120\304\246\043\066\236
\137\050\215\027\313\226\042\144\077\334\172\216\035\314\010\263
\242\161\044\272\216\111\271\004\033\107\226\130\253\055\225\310
\355\236\010\065\310\047\353\211\214\123\130\353\142\212\376\360
\133\017\153\061\122\143\101\073\211\315\354\354\266\215\031\323
\064\007\334\273\306\006\177\302\105\225\354\313\177\250\043\340
\011\351\201\372\363\107\323\243\143\060\141\060\035\006\003\125
\035\016\004\026\004\024\202\321\205\163\060\347\065\004\323\216
\002\222\373\345\244\321\304\041\350\315\060\017\006\003\125\035
\023\001\001\377\004\005\060\003\001\001\377\060\037\006\003\125
\035\043\004\030\060\026\200\024\202\321\205\163\060\347\065\004
\323\216\002\222\373\345\244\321\304\041\350\315\060\016\006\003
\125\035\017\001\001\377\004\004\003\002\001\206\060\012\006\010
\052\206\110\316\075\004\003\002\003\147\000\060\144\002\060\157
\347\353\131\021\244\140\317\141\260\226\173\355\005\371\057\023

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\221\334\355\345\374\120\153\021\106\106\263\034\041\000\142\273
\276\303\347\350\315\007\231\371\015\013\135\162\076\304\252\002
\060\037\274\272\013\342\060\044\373\174\155\200\125\012\231\076
\200\015\063\345\146\243\263\243\273\245\325\213\217\011\054\246
\135\176\342\360\007\010\150\155\322\174\151\156\137\337\345\152
\145
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "SSL.com Root Certification Authority ECC"
# Issuer: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number:75:e6:df:cb:c1:68:5b:a8
# Subject: CN=SSL.com Root Certification Authority ECC,O=SSL
 Corporation,L=Houston,ST=Texas,C=US
# Not Valid Before: Fri Feb 12 18:14:03 2016
# Not Valid After : Tue Feb 12 18:14:03 2041
# Fingerprint (SHA-256):
34:17:BB:06:CC:60:07:DA:1B:96:1C:92:0B:8A:B4:CE:3F:AD:82:0E:4A:A3:0B:9A:CB:C4:A7:4E:BD:CE:BC:65
# Fingerprint (SHA1): C3:19:7C:39:24:E6:54:AF:1B:C4:AB:20:95:7A:E2:C3:0E:13:02:6A
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com Root Certification Authority ECC"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\303\031\174\071\044\346\124\257\033\304\253\040\225\172\342\303
\016\023\002\152
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\056\332\344\071\177\234\217\067\321\160\237\046\027\121\072\216
END
CKA_ISSUER MULTILINE_OCTAL
\060\174\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057\006
\003\125\004\003\014\050\123\123\114\056\143\157\155\040\122\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\040\105\103\103
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\010\165\346\337\313\301\150\133\250
END
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CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "SSL.com EV Root Certification Authority RSA R2"
#
# Issuer: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number:56:b6:29:cd:34:bc:78:f6
# Subject: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL
Corporation,L=Houston,ST=Texas,C=US
# Not Valid Before: Wed May 31 18:14:37 2017
# Not Valid After : Fri May 30 18:14:37 2042
# Fingerprint
 (SHA-256):
2E:7B:F1:6C:C2:24:85:A7:BB:E2:AA:86:96:75:07:61:B0:AE:39:BE:3B:2F:E9:D0:CC:6D:4E:F7:34:91:42:5C
# Fingerprint (SHA1): 74:3A:F0:52:9B:D0:32:A0:F4:4A:83:CD:D4:BA:A9:7B:7C:2E:C4:9A
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com EV Root Certification Authority RSA R2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163
\061\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164
\157\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114
\040\103\157\162\160\157\162\141\164\151\157\156\061\067\060\065
\006\003\125\004\003\014\056\123\123\114\056\143\157\155\040\105
\126\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\122
\123\101\040\122\062
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163
\061\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164
\157\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114
\040\103\157\162\160\157\162\141\164\151\157\156\061\067\060\065
\006\003\125\004\003\014\056\123\123\114\056\143\157\155\040\105
\126\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\122
\123\101\040\122\062
END
```

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\126\266\051\315\064\274\170\366
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\353\060\202\003\323\240\003\002\001\002\002\010\126
\266\051\315\064\274\170\366\060\015\006\011\052\206\110\206\367
\015\001\001\013\005\000\060\201\202\061\013\060\011\006\003\125
\004\006\023\002\125\123\061\016\060\014\006\003\125\004\010\014
\005\124\145\170\141\163\061\020\060\016\006\003\125\004\007\014
\007\110\157\165\163\164\157\156\061\030\060\026\006\003\125\004
\012\014\017\123\123\114\040\103\157\162\160\157\162\141\164\151
\157\156\061\067\060\065\006\003\125\004\003\014\056\123\123\114
\056\143\157\155\040\105\126\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171\040\122\123\101\040\122\062\060\036\027\015\061
\067\060\065\063\061\061\070\061\064\063\067\132\027\015\064\062
\060\065\063\060\061\070\061\064\063\067\132\060\201\202\061\013
\060\011\006\003\125\004\006\023\002\125\123\061\016\060\014\006
\003\125\004\010\014\005\124\145\170\141\163\061\020\060\016\006
\003\125\004\007\014\007\110\157\165\163\164\157\156\061\030\060
\026\006\003\125\004\012\014\017\123\123\114\040\103\157\162\160
\157\162\141\164\151\157\156\061\067\060\065\006\003\125\004\003
\014\056\123\123\114\056\143\157\155\040\105\126\040\122\157\157
\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040
\101\165\164\150\157\162\151\164\171\040\122\123\101\040\122\062
\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001
\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001
\000\217\066\145\100\341\326\115\300\327\264\351\106\332\153\352
\063\107\315\114\371\175\175\276\275\055\075\360\333\170\341\206
\245\331\272\011\127\150\355\127\076\240\320\010\101\203\347\050
\101\044\037\343\162\025\320\001\032\373\136\160\043\262\313\237
\071\343\317\305\116\306\222\155\046\306\173\273\263\332\047\235
\012\206\351\201\067\005\376\360\161\161\354\303\034\351\143\242
\027\024\235\357\033\147\323\205\125\002\002\326\111\311\314\132
\341\261\367\157\062\237\311\324\073\210\101\250\234\275\313\253
\333\155\173\011\037\242\114\162\220\332\053\010\374\317\074\124
\316\147\017\250\317\135\226\031\013\304\343\162\353\255\321\175
\035\047\357\222\353\020\277\133\353\073\257\317\200\335\301\322
\226\004\133\172\176\244\251\074\070\166\244\142\216\240\071\136
\352\167\317\135\000\131\217\146\054\076\007\242\243\005\046\021
\151\227\352\205\267\017\226\013\113\310\100\341\120\272\056\212
\313\367\017\232\042\347\177\232\067\023\315\362\115\023\153\041
\321\300\314\042\362\241\106\366\104\151\234\312\141\065\007\000
\157\326\141\010\021\352\272\270\366\351\263\140\345\115\271\354
\237\024\146\311\127\130\333\315\207\151\370\212\206\022\003\107
\277\146\023\166\254\167\175\064\044\205\203\315\327\252\234\220
\032\237\041\054\177\170\267\144\270\330\350\246\364\170\263\125
\313\204\322\062\304\170\256\243\217\141\335\316\010\123\255\354

\210\374\025\344\232\015\346\237\032\167\316\114\217\270\024\025
\075\142\234\206\070\006\000\146\022\344\131\166\132\123\300\002
\230\242\020\053\150\104\173\216\171\316\063\112\166\252\133\201
\026\033\265\212\330\320\000\173\136\142\264\011\326\206\143\016
\246\005\225\111\272\050\213\210\223\262\064\034\330\244\125\156
\267\034\320\336\231\125\073\043\364\042\340\371\051\146\046\354
\040\120\167\333\112\013\217\276\345\002\140\160\101\136\324\256
\120\071\042\024\046\313\262\073\163\164\125\107\007\171\201\071
\250\060\023\104\345\004\212\256\226\023\045\102\017\271\123\304
\233\374\315\344\034\336\074\372\253\326\006\112\037\147\246\230
\060\034\335\054\333\334\030\225\127\146\306\377\134\213\126\365
\167\002\003\001\000\001\243\143\060\141\060\017\006\003\125\035
\023\001\001\377\004\005\060\003\001\001\377\060\037\006\003\125
\035\043\004\030\060\026\200\024\371\140\273\324\343\325\064\366
\270\365\006\200\045\247\163\333\106\151\250\236\060\035\006\003
\125\035\016\004\026\004\024\371\140\273\324\343\325\064\366\270
\365\006\200\045\247\163\333\106\151\250\236\060\016\006\003\125
\035\017\001\001\377\004\004\003\002\001\206\060\015\006\011\052
\206\110\206\367\015\001\001\013\005\000\003\202\002\001\000\126
\263\216\313\012\235\111\216\277\244\304\221\273\146\027\005\121
\230\165\373\345\120\054\172\236\361\024\372\253\323\212\076\377
\221\051\217\143\213\330\264\251\124\001\015\276\223\206\057\371
\112\155\307\136\365\127\371\312\125\034\022\276\107\017\066\305
\337\152\267\333\165\302\107\045\177\271\361\143\370\150\055\125
\004\321\362\215\260\244\317\274\074\136\037\170\347\245\240\040
\160\260\004\305\267\367\162\247\336\042\015\275\063\045\106\214
\144\222\046\343\076\056\143\226\332\233\214\075\370\030\011\327
\003\314\175\206\202\340\312\004\007\121\120\327\377\222\325\014
\357\332\206\237\231\327\353\267\257\150\342\071\046\224\272\150
\267\277\203\323\352\172\147\075\142\147\256\045\345\162\350\342
\344\354\256\022\366\113\053\074\237\351\260\100\363\070\124\263
\375\267\150\310\332\306\217\121\074\262\373\221\334\034\347\233
\235\341\267\015\162\217\342\244\304\251\170\371\353\024\254\306
\103\005\302\145\071\050\030\002\303\202\262\235\005\276\145\355
\226\137\145\164\074\373\011\065\056\173\234\023\375\033\017\135
\307\155\201\072\126\017\314\073\341\257\002\057\042\254\106\312
\106\074\240\034\114\326\104\264\136\056\134\025\146\011\341\046
\051\376\306\122\141\272\261\163\377\303\014\234\345\154\152\224
\077\024\312\100\026\225\204\363\131\251\254\137\114\141\223\155
\321\073\314\242\225\014\042\246\147\147\104\056\271\331\322\212
\101\263\146\013\132\373\175\043\245\362\032\260\377\336\233\203
\224\056\321\077\337\222\267\221\257\005\073\145\307\240\154\261
\315\142\022\303\220\033\343\045\316\064\274\157\167\166\261\020
\303\367\005\032\300\326\257\164\142\110\027\167\222\151\220\141
\034\336\225\200\164\124\217\030\034\303\363\003\320\277\244\103
\165\206\123\030\172\012\056\011\034\066\237\221\375\202\212\042
\113\321\016\120\045\335\313\003\014\027\311\203\000\010\116\065
\115\212\213\355\360\002\224\146\054\104\177\313\225\047\226\027

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\255\011\060\254\266\161\027\156\213\027\366\034\011\324\055\073
\230\245\161\323\124\023\331\140\363\365\113\146\117\372\361\356
\040\022\215\264\254\127\261\105\143\241\254\166\251\302\373
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER
 CK_BBOOL CK_FALSE

# Trust for "SSL.com EV Root Certification Authority RSA R2"
# Issuer: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number:56:b6:29:cd:34:bc:78:f6
# Subject: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL
Corporation,L=Houston,ST=Texas,C=US
# Not Valid Before: Wed May 31 18:14:37 2017
# Not Valid After : Fri May 30 18:14:37 2042
# Fingerprint (SHA-256):
2E:7B:F1:6C:C2:24:85:A7:BB:E2:AA:86:96:75:07:61:B0:AE:39:BE:3B:2F:E9:D0:CC:6D:4E:F7:34:91:42:5C
# Fingerprint (SHA1): 74:3A:F0:52:9B:D0:32:A0:F4:4A:83:CD:D4:BA:A9:7B:7C:2E:C4:9A
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com EV Root Certification Authority RSA R2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\164\072\360\122\233\320\062\240\364\112\203\315\324\272\251\173
\174\056\304\232
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\341\036\061\130\032\256\124\123\002\366\027\152\021\173\115\225
END
CKA_ISSUER
 MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163
\061\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164
\157\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114
\040\103\157\162\160\157\162\141\164\151\157\156\061\067\060\065
\006\003\125\004\003\014\056\123\123\114\056\143\157\155\040\105
\126\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\122
\123\101\040\122\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\126\266\051\315\064\274\170\366
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
```

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CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "SSL.com EV Root Certification Authority ECC"
#
# Issuer: CN=SSL.com
 EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number:2c:29:9c:5b:16:ed:05:95
# Subject: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid Before: Fri Feb 12 18:15:23 2016
# Not Valid After : Tue Feb 12 18:15:23 2041
# Fingerprint (SHA-256):
22:A2:C1:F7:BD:ED:70:4C:C1:E7:01:B5:F4:08:C3:10:88:0F:E9:56:B5:DE:2A:4A:44:F9:9C:87:3A:25:A7:C8
# Fingerprint (SHA1): 4C:DD:51:A3:D1:F5:20:32:14:B0:C6:C5:32:23:03:91:C7:46:42:6D
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com EV Root Certification Authority ECC"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\177\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\064\060\062\006
\003\125\004\003\014\053\123\123\114\056\143\157\155\040\105\126
\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\040\105\103
\103
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\177\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\064\060\062\006
\003\125\004\003\014\053\123\123\114\056\143\157\155\040\105\126
\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\040\105\103
\103
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\054\051\234\133\026\355\005\225
```

END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\224\060\202\002\032\240\003\002\001\002\002\010\054
\051\234\133\026\355\005\225\060\012\006\010\052\206\110\316\075
\004\003\002\060\177\061\013\060\011\006\003\125\004\006\023\002
\125\123\061\016\060\014\006\003\125\004\010\014\005\124\145\170
\141\163\061\020\060\016\006\003\125\004\007\014\007\110\157\165
\163\164\157\156\061\030\060\026\006\003\125\004\012\014\017\123
\123\114\040\103\157\162\160\157\162\141\164\151\157\156\061\064
\060\062\006\003\125\004\003\014\053\123\123\114\056\143\157\155
\040\105\126\040\122\157\157\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
\040\105\103\103\060\036\027\015\061\066\060\062\061\062\061\070
\061\065\062\063\132\027\015\064\061\060\062\061\062\061\070\061
\065\062\063\132\060\177\061\013\060\011\006\003\125\004\006\023
\002\125\123\061\016\060\014\006\003\125\004\010\014\005\124\145
\170\141\163\061\020\060\016\006\003\125\004\007\014\007\110\157
\165\163\164\157\156\061\030\060\026\006\003\125\004\012\014\017
\123\123\114\040\103\157\162\160\157\162\141\164\151\157\156\061
\064\060\062\006\003\125\004\003\014\053\123\123\114\056\143\157
\155\040\105\126\040\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171\040\105\103\103\060\166\060\020\006\007\052\206\110\316\075
\002\001\006\005\053\201\004\000\042\003\142\000\004\252\022\107
\220\230\033\373\357\303\100\007\203\040\116\361\060\202\242\006
\321\362\222\206\141\362\366\041\150\312\000\304\307\352\103\000
\124\206\334\375\037\337\000\270\101\142\134\334\160\026\062\336
\037\231\324\314\305\007\310\010\037\141\026\007\121\075\175\134
\007\123\343\065\070\214\337\315\237\331\056\015\112\266\031\056
\132\160\132\006\355\276\360\241\260\312\320\011\051\243\143\060
\141\060\035\006\003\125\035\016\004\026\004\024\133\312\136\345
\336\322\201\252\315\250\055\144\121\266\331\162\233\227\346\117
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001
\377\060\037\006\003\125\035\043\004\030\060\026\200\024\133\312
\136\345\336\322\201\252\315\250\055\144\121\266\331\162\233\227
\346\117\060\016\006\003\125\035\017\001\001\377\004\004\003\002
\001\206\060\012\006\010\052\206\110\316\075\004\003\002\003\150
\000\060\145\002\061\000\212\346\100\211\067\353\351\325\023\331
\312\324\153\044\363\260\075\207\106\130\032\354\261\337\157\373
\126\272\160\153\307\070\314\350\261\214\117\017\367\361\147\166
\016\203\320\036\121\217\002\060\075\366\043\050\046\114\306\140
\207\223\046\233\262\065\036\272\326\367\074\321\034\316\372\045
\074\246\032\201\025\133\363\022\017\154\356\145\212\311\207\250
\371\007\340\142\232\214\134\112
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

```
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "SSL.com EV Root Certification Authority ECC"
# Issuer: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number:2c:29:9c:5b:16:ed:05:95
#
 Subject: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid Before: Fri Feb 12 18:15:23 2016
# Not Valid After : Tue Feb 12 18:15:23 2041
# Fingerprint (SHA-256):
22:A2:C1:F7:BD:ED:70:4C:C1:E7:01:B5:F4:08:C3:10:88:0F:E9:56:B5:DE:2A:4A:44:F9:9C:87:3A:25:A7:C8
# Fingerprint (SHA1): 4C:DD:51:A3:D1:F5:20:32:14:B0:C6:C5:32:23:03:91:C7:46:42:6D
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com EV Root Certification Authority ECC"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\114\335\121\243\321\365\040\062\024\260\306\305\062\043\003\221
\307\106\102\155
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\131\123\042\145\203\102\001\124\300\316\102\271\132\174\362\220
END
CKA_ISSUER MULTILINE_OCTAL
\060\177\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\064\060\062\006
\003\125\004\003\014\053\123\123\114\056\143\157\155\040\105\126
\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\040\105\103
\103
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\010\054\051\234\133\026\355\005\225
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "GlobalSign Root CA - R6"
#
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6
```

```
# Serial Number:45:e6:bb:03:83:33:c3:85:65:48:e6:ff:45:51
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6
# Not Valid Before: Wed Dec 10 00:00:00 2014
# Not Valid After : Sun Dec 10
 00:00:00 2034
# Fingerprint (SHA-256):
2C:AB:EA:FE:37:D0:6C:A2:2A:BA:73:91:C0:03:3D:25:98:29:52:C4:53:64:73:49:76:3A:3A:B5:AD:6C:CF:69
# Fingerprint (SHA1): 80:94:64:0E:B5:A7:A1:CA:11:9C:1F:DD:D5:9F:81:02:63:A7:FB:D1
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA - R6"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\114\061\040\060\036\006\003\125\004\013\023\027\107\154\157
\142\141\154\123\151\147\156\040\122\157\157\164\040\103\101\040
\055\040\122\066\061\023\060\021\006\003\125\004\012\023\012\107
\154\157\142\141\154\123\151\147\156\061\023\060\021\006\003\125
\004\003\023\012\107\154\157\142\141\154\123\151\147\156
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\114\061\040\060\036\006\003\125\004\013\023\027\107\154\157
\142\141\154\123\151\147\156\040\122\157\157\164\040\103\101\040
\055\040\122\066\061\023\060\021\006\003\125\004\012\023\012\107
\154\157\142\141\154\123\151\147\156\061\023\060\021\006\003\125
\004\003\023\012\107\154\157\142\141\154\123\151\147\156
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\016\105\346\273\003\203\063\303\205\145\110\346\377\105\121
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\203\060\202\003\153\240\003\002\001\002\002\016\105
\346\273\003\203\063\303\205\145\110\346\377\105\121\060\015\006
\011\052\206\110\206\367\015\001\001\014\005\000\060\114\061\040
\060\036\006\003\125\004\013\023\027\107\154\157\142\141\154\123
\151\147\156\040\122\157\157\164\040\103\101\040\055\040\122\066
\061\023\060\021\006\003\125\004\012\023\012\107\154\157\142\141
\154\123\151\147\156\061\023\060\021\006\003\125\004\003\023\012
\107\154\157\142\141\154\123\151\147\156\060\036\027\015\061\064
\061\062\061\060\060\060\060\060\060\060\132\027\015\063\064\061
\062\061\060\060\060\060\060\060\060\060\132\060\114\061\040\060\036
\006\003\125\004\013\023\027\107\154\157\142\141\154\123\151\147
\156\040\122\157\157\164\040\103\101\040\055\040\122\066\061\023
\060\021\006\003\125\004\012\023\012\107\154\157\142\141\154\123
\151\147\156\061\023\060\021\006\003\125\004\003\023\012\107\154
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\157\142\141\154\123\151\147\156\060\202\002\042\060\015\006\011
\052\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000
\060\202\002\012\002\202\002\001\000\225\007\350\163\312\146\371
\354\024\312\173\074\367\015\010\361\264\105\013\054\202\264\110
\306\353\133\074\256\203\270\101\222\063\024\244\157\177\351\052
\314\306\260\210\153\305\266\211\321\306\262\377\024\316\121\024
\041\354\112\335\033\132\306\326\207\356\115\072\025\006\355\144
\146\013\222\200\312\104\336\163\224\116\363\247\211\177\117\170
\143\010\310\022\120\155\102\146\057\115\271\171\050\115\122\032
\212\032\200\267\031\201\016\176\304\212\274\144\114\041\034\103
\150\327\075\074\212\305\262\146\325\220\232\267\061\006\305\276
\342\155\062\006\246\036\371\271\353\252\243\270\277\276\202\143
\120\320\360\030\211\337\344\017\171\365\352\242\037\052\322\160
\056\173\347\274\223\273\155\123\342\110\174\214\020\007\070\377
\146\262\167\141\176\340\352\214\074\252\264\244\366\363\225\112
\022\007\155\375\214\262\211\317\320\240\141\167\310\130\164\260
\324\043\072\367\135\072\312\242\333\235\011\336\135\104\055\220
\361\201\315\127\222\372\176\274\120\004\143\064\337\153\223\030
\276\153\066\262\071\344\254\044\066\267\360\357\266\034\023\127
\223\266\336\262\370\342\205\267\163\242\270\065\252\105\362\340
\235\066\241\157\124\212\361\162\126\156\056\210\305\121\102\104
\025\224\356\243\305\070\226\233\116\116\132\013\107\363\006\066
\111\167\060\274\161\067\345\246\354\041\010\165\374\346\141\026
\077\167\325\331\221\227\204\012\154\324\002\115\164\300\024\355
\375\071\373\203\362\136\024\241\004\260\013\351\376\356\217\341
\156\013\262\010\263\141\146\011\152\261\006\072\145\226\131\300
\360\065\375\311\332\050\215\032\021\207\160\201\012\250\232\165
\035\236\072\206\005\000\236\333\200\326\045\371\334\005\236\047
\131\114\166\071\133\352\371\245\241\330\203\017\321\377\337\060
\021\371\205\317\063\110\365\312\155\144\024\054\172\130\117\323
\113\010\111\305\225\144\032\143\016\171\075\365\263\214\312\130
\255\234\102\105\171\156\016\207\031\134\124\261\145\266\277\214
\233\334\023\351\015\157\270\056\334\147\156\311\213\021\265\204
\024\212\000\031\160\203\171\221\227\221\324\032\047\277\067\036
\062\007\330\024\143\074\050\114\257\002\003\001\000\001\243\143
\060\141\060\016\006\003\125\035\017\001\001\377\004\004\003\002
\001\006\060\017\006\003\125\035\023\001\001\377\004\005\060\003
\001\001\377\060\035\006\003\125\035\016\004\026\004\024\256\154
\005\243\223\023\342\242\347\342\327\034\326\307\360\177\310\147
\123\240\060\037\006\003\125\035\043\004\030\060\026\200\024\256
\154\005\243\223\023\342\242\347\342\327\034\326\307\360\177\310
\147\123\240\060\015\006\011\052\206\110\206\367\015\001\001\014
\005\000\003\202\002\001\000\203\045\355\350\321\375\225\122\315
\236\300\004\240\221\151\346\134\320\204\336\334\255\242\117\350
\107\170\326\145\230\251\133\250\074\207\174\002\212\321\156\267
\026\163\346\137\300\124\230\325\164\276\301\315\342\021\221\255
\043\030\075\335\341\162\104\226\264\225\136\300\173\216\231\170
\026\103\023\126\127\263\242\263\073\265\167\334\100\162\254\243

\353\233\065\076\261\010\041\241\347\304\103\067\171\062\276\265
\347\234\054\114\274\103\051\231\216\060\323\254\041\340\343\035
\372\330\007\063\166\124\000\042\052\271\115\040\056\160\150\332
\345\123\374\203\134\323\235\362\377\104\014\104\146\362\322\343
\275\106\000\032\155\002\272\045\135\215\241\061\121\335\124\106
\034\115\333\231\226\357\032\034\004\134\246\025\357\170\340\171
\376\135\333\076\252\114\125\375\232\025\251\157\341\246\373\337
\160\060\351\303\356\102\106\355\302\223\005\211\372\175\143\173
\077\320\161\201\174\000\350\230\256\016\170\064\303\045\373\257
\012\237\040\153\335\073\023\217\022\214\342\101\032\110\172\163
\240\167\151\307\266\134\177\202\310\036\376\130\033\050\053\250
\154\255\136\155\300\005\322\173\267\353\200\376\045\067\376\002
\233\150\254\102\135\303\356\365\314\334\360\120\165\322\066\151
\234\346\173\004\337\156\006\151\266\336\012\011\110\131\207\353
\173\024\140\172\144\252\151\103\357\221\307\114\354\030\335\154
\357\123\055\214\231\341\136\362\162\076\317\124\310\275\147\354
\244\017\114\105\377\323\271\060\043\007\114\217\020\277\206\226
\331\231\132\264\231\127\034\244\314\273\025\211\123\272\054\005
\017\344\304\236\031\261\030\064\325\114\235\272\355\367\037\257
\044\225\004\170\250\003\273\356\201\345\332\137\174\213\112\241
\220\164\045\247\263\076\113\310\054\126\275\307\310\357\070\342
\134\222\360\171\367\234\204\272\164\055\141\001\040\176\176\321
\362\117\007\131\137\213\055\103\122\353\106\014\224\341\365\146
\107\171\167\325\124\133\037\255\044\067\313\105\132\116\240\104
\110\310\330\260\231\305\025\204\011\366\326\111\111\300\145\270
\346\032\161\156\240\250\361\202\350\105\076\154\326\002\327\012
\147\203\005\132\311\244\020
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "GlobalSign Root CA - R6"
Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6
Serial Number:45:e6:bb:03:83:33:c3:85:65:48:e6:ff:45:51
Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6
Not Valid Before: Wed Dec 10 00:00:00 2014
Not Valid After : Sun Dec 10 00:00:00 2034
Fingerprint (SHA-256):
2C:AB:EA:FE:37:D0:6C:A2:2A:BA:73:91:C0:03:3D:25:98:29:52:C4:53:64:73:49:76:3A:3A:B5:AD:6C:CF:69
Fingerprint (SHA1): 80:94:64:0E:B5:A7:A1:CA:11:9C:1F:DD:D5:9F:81:02:63:A7:FB:D1
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA - R6"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL

```
\200\224\144\016\265\247\241\312\021\234\037\335\325\237\201\002
\143\247\373\321
END
CKA_CERT_MD5_HASH
 MULTILINE_OCTAL
\117\335\007\344\324\042\144\071\036\014\067\102\352\321\306\256
END
CKA_ISSUER MULTILINE_OCTAL
\060\114\061\040\060\036\006\003\125\004\013\023\027\107\154\157
\142\141\154\123\151\147\156\040\122\157\157\164\040\103\101\040
\055\040\122\066\061\023\060\021\006\003\125\004\012\023\012\107
\154\157\142\141\154\123\151\147\156\061\023\060\021\006\003\125
\004\003\023\012\107\154\157\142\141\154\123\151\147\156
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\016\105\346\273\003\203\063\303\205\145\110\346\377\105\121
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "OISTE WISeKey Global Root GC CA"
#
# Issuer: CN=OISTE WISeKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Serial Number:21:2a:56:0c:ae:da:0c:ab:40:45:bf:2b:a2:2d:3a:ea
# Subject: CN=OISTE WISeKey Global
 Root GC CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Not Valid Before: Tue May 09 09:48:34 2017
# Not Valid After : Fri May 09 09:58:33 2042
# Fingerprint (SHA-256):
85:60:F9:1C:36:24:DA:BA:95:70:B5:FE:A0:DB:E3:6F:F1:1A:83:23:BE:94:86:85:4F:B3:F3:4A:55:71:19:8D
# Fingerprint (SHA1): E0:11:84:5E:34:DE:BE:88:81:B9:9C:F6:16:26:D1:96:1F:C3:B9:31
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WISeKey Global Root GC CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\155\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113\145
\171\061\042\060\040\006\003\125\004\013\023\031\117\111\123\124
\105\040\106\157\165\156\144\141\164\151\157\156\040\105\156\144
\157\162\163\145\144\061\050\060\046\006\003\125\004\003\023\037
\117\111\123\124\105\040\127\111\123\145\113\145\171\040\107\154
\157\142\141\154\040\122\157\157\164\040\107\103\040\103\101
```

END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\155\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113\145
\171\061\042\060\040\006\003\125\004\013\023\031\117\111\123\124
\105\040\106\157\165\156\144\141\164\151\157\156\040\105\156\144
\157\162\163\145\144\061\050\060\046\006\003\125\004\003\023\037
\117\111\123\124\105\040\127\111\123\145\113\145\171\040\107\154
\157\142\141\154\040\122\157\157\164\040\107\103\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\041\052\126\014\256\332\014\253\100\105\277\053\242\055
\072\352
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\151\060\202\001\357\240\003\002\001\002\002\020\041
\052\126\014\256\332\014\253\100\105\277\053\242\055\072\352\060
\012\006\010\052\206\110\316\075\004\003\003\060\155\061\013\060
\011\006\003\125\004\006\023\002\103\110\061\020\060\016\006\003
\125\004\012\023\007\127\111\123\145\113\145\171\061\042\060\040
\006\003\125\004\013\023\031\117\111\123\124\105\040\106\157\165
\156\144\141\164\151\157\156\040\105\156\144\157\162\163\145\144
\061\050\060\046\006\003\125\004\003\023\037\117\111\123\124\105
\040\127\111\123\145\113\145\171\040\107\154\157\142\141\154\040
\122\157\157\164\040\107\103\040\103\101\060\036\027\015\061\067
\060\065\060\071\060\071\064\070\063\064\132\027\015\064\062\060
\065\060\071\060\071\065\070\063\063\132\060\155\061\013\060\011
\006\003\125\004\006\023\002\103\110\061\020\060\016\006\003\125
\004\012\023\007\127\111\123\145\113\145\171\061\042\060\040\006
\003\125\004\013\023\031\117\111\123\124\105\040\106\157\165\156
\144\141\164\151\157\156\040\105\156\144\157\162\163\145\144\061
\050\060\046\006\003\125\004\003\023\037\117\111\123\124\105\040
\127\111\123\145\113\145\171\040\107\154\157\142\141\154\040\122
\157\157\164\040\107\103\040\103\101\060\166\060\020\006\007\052
\206\110\316\075\002\001\006\005\053\201\004\000\042\003\142\000
\004\114\351\120\300\306\017\162\030\274\330\361\272\263\211\342
\171\112\243\026\247\153\124\044\333\121\377\352\364\011\044\303
\013\042\237\313\152\047\202\201\015\322\300\257\061\344\164\202
\156\312\045\331\214\165\235\361\333\320\232\242\113\041\176\026
\247\143\220\322\071\324\261\207\170\137\030\226\017\120\033\065
\067\017\152\306\334\331\023\115\244\216\220\067\346\275\133\061
\221\243\124\060\122\060\016\006\003\125\035\017\001\001\377\004
\004\003\002\001\006\060\017\006\003\125\035\023\001\001\377\004
\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026\004
\024\110\207\024\254\343\303\236\220\140\072\327\312\211\356\323
\255\214\264\120\146\060\020\006\011\053\006\001\004\001\202\067

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\025\001\004\003\002\001\000\060\012\006\010\052\206\110\316\075
\004\003\003\003\150\000\060\145\002\060\046\307\151\133\334\325
\347\262\347\310\014\214\214\303\335\171\214\033\143\325\311\122
\224\116\115\202\112\163\036\262\200\204\251\045\300\114\132\155
\111\051\140\170\023\342\176\110\353\144\002\061\000\333\064\040
\062\010\377\232\111\002\266\210\336\024\257\135\154\231\161\215
\032\077\213\327\340\242\066\206\034\007\202\072\166\123\375\302
\242\355\357\173\260\200\117\130\017\113\123\071\275
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "OISTE WISeKey Global Root GC CA"
# Issuer: CN=OISTE WISeKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Serial Number:21:2a:56:0c:ae:da:0c:ab:40:45:bf:2b:a2:2d:3a:ea
# Subject: CN=OISTE WISeKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Not Valid Before: Tue May 09 09:48:34 2017
# Not Valid After : Fri May 09 09:58:33 2042
# Fingerprint (SHA-256):
85:60:F9:1C:36:24:DA:BA:95:70:B5:FE:A0:DB:E3:6F:F1:1A:83:23:BE:94:86:85:4F:B3:F3:4A:55:71:19:8D
# Fingerprint (SHA1): E0:11:84:5E:34:DE:BE:88:81:B9:9C:F6:16:26:D1:96:1F:C3:B9:31
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN
 CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WISeKey Global Root GC CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\340\021\204\136\064\336\276\210\201\271\234\366\026\046\321\226
\037\303\271\061
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\251\326\271\055\057\223\144\370\245\151\312\221\351\150\007\043
END
CKA_ISSUER MULTILINE_OCTAL
\060\155\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113\145
\171\061\042\060\040\006\003\125\004\013\023\031\117\111\123\124
\105\040\106\157\165\156\144\141\164\151\157\156\040\105\156\144
\157\162\163\145\144\061\050\060\046\006\003\125\004\003\023\037
\117\111\123\124\105\040\127\111\123\145\113\145\171\040\107\154
\157\142\141\154\040\122\157\157\164\040\107\103\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\041\052\126\014\256\332\014\253\100\105\277\053\242\055
\072\352
```

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END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION
 CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "UCA Global G2 Root"
#
# Issuer: CN=UCA Global G2 Root,O=UniTrust,C=CN
# Serial Number:5d:df:b1:da:5a:a3:ed:5d:be:5a:65:20:65:03:90:ef
# Subject: CN=UCA Global G2 Root,O=UniTrust,C=CN
# Not Valid Before: Fri Mar 11 00:00:00 2016
# Not Valid After : Mon Dec 31 00:00:00 2040
# Fingerprint (SHA-256):
9B:EA:11:C9:76:FE:01:47:64:C1:BE:56:A6:F9:14:B5:A5:60:31:7A:BD:99:88:39:33:82:E5:16:1A:A0:49:3C
# Fingerprint (SHA1): 28:F9:78:16:19:7A:FF:18:25:18:AA:44:FE:C1:A0:CE:5C:B6:4C:8A
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "UCA Global G2 Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\075\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\021\060\017\006\003\125\004\012\014\010\125\156\151\124\162\165
\163\164\061\033\060\031\006\003\125\004\003\014\022\125\103\101
\040\107\154\157\142\141\154\040\107\062\040\122\157\157\164
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\075\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\021\060\017\006\003\125\004\012\014\010\125\156\151\124\162\165
\163\164\061\033\060\031\006\003\125\004\003\014\022\125\103\101
\040\107\154\157\142\141\154\040\107\062\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\135\337\261\332\132\243\355\135\276\132\145\040\145\003
\220\357
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\106\060\202\003\056\240\003\002\001\002\002\020\135
\337\261\332\132\243\355\135\276\132\145\040\145\003\220\357\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\075
\061\013\060\011\006\003\125\004\006\023\002\103\116\061\021\060
\017\006\003\125\004\012\014\010\125\156\151\124\162\165\163\164
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\061\033\060\031\006\003\125\004\003\014\022\125\103\101\040\107
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\222\153\240\243\015\242\176\312\223\263\246\321\214\065\325\165
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\124\172\224\300\052\025\360\311\215\260\172\073\044\341\327\150
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\013\365\144\303\316\103\274\155\161\271\322\336\047\133\212\350
\330\306\256\341\131\175\317\050\055\065\270\225\126\032\361\262
\130\113\267\022\067\310\174\263\355\113\200\341\215\372\062\043
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\077\107\354\357\132\277\113\172\301\255\073\027\120\134\142\330
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\067\062\241\310\145\266\256\070\075\065\033\076\274\073\266\004
\320\274\371\111\365\233\367\205\305\066\266\313\274\370\310\071
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\326\251\315\335\357\166\230\215\000\016\315\033\372\003\267\216
\200\130\016\047\077\122\373\224\242\312\136\145\311\326\204\332
\271\065\161\363\046\300\117\167\346\201\047\322\167\073\232\024
\157\171\364\366\320\341\323\224\272\320\127\121\275\047\005\015
\301\375\310\022\060\356\157\215\021\053\010\235\324\324\277\200
\105\024\232\210\104\332\060\352\264\247\343\356\357\133\202\325
\076\326\255\170\222\333\134\074\363\330\255\372\270\153\177\304
\066\050\266\002\025\212\124\054\234\260\027\163\216\320\067\243
\024\074\230\225\000\014\051\005\133\236\111\111\261\137\307\343
\313\317\047\145\216\065\027\267\127\310\060\331\101\133\271\024
\266\350\302\017\224\061\247\224\230\314\152\353\265\341\047\365
\020\250\001\350\216\022\142\350\210\314\265\177\106\227\300\233
\020\146\070\032\066\106\137\042\150\075\337\311\306\023\047\253
\123\006\254\242\074\206\006\145\157\261\176\261\051\104\232\243
\272\111\151\050\151\217\327\345\137\255\004\206\144\157\032\240
\014\305\010\142\316\200\243\320\363\354\150\336\276\063\307\027
\133\177\200\304\114\114\261\246\204\212\303\073\270\011\315\024
\201\272\030\343\124\127\066\376\333\057\174\107\241\072\063\310
\371\130\073\104\117\261\312\002\211\004\226\050\150\305\113\270
\046\211\273\326\063\057\120\325\376\232\211\272\030\062\222\124
\306\133\340\235\371\136\345\015\042\233\366\332\342\310\041\262
\142\041\252\206\100\262\056\144\323\137\310\343\176\021\147\105
\037\005\376\343\242\357\263\250\263\363\175\217\370\014\037\042
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\120\037\212\373\006\365\302\031\360\320
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "UCA Global G2 Root"
Issuer: CN=UCA Global G2 Root,O=UniTrust,C=CN
Serial Number:5d:df:b1:da:5a:a3:ed:5d:be:5a:65:20:65:03:90:ef
Subject: CN=UCA Global G2 Root,O=UniTrust,C=CN
Not Valid Before: Fri Mar 11 00:00:00 2016
Not Valid After : Mon Dec 31 00:00:00 2040
Fingerprint (SHA-256):
9B:EA:11:C9:76:FE:01:47:64:C1:BE:56:A6:F9:14:B5:A5:60:31:7A:BD:99:88:39:33:82:E5:16:1A:A0:49:3C
Fingerprint (SHA1): 28:F9:78:16:19:7A:FF:18:25:18:AA:44:FE:C1:A0:CE:5C:B6:4C:8A
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

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CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "UCA Global G2 Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\050\371\170\026\031\172\377\030\045\030\252\104\376\301\240\316
\134\266\114\212
END
CKA_CERT_MD5_HASH
 MULTILINE_OCTAL
\200\376\360\304\112\360\134\142\062\237\034\272\170\251\120\370
END
CKA_ISSUER MULTILINE_OCTAL
\060\075\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\021\060\017\006\003\125\004\012\014\010\125\156\151\124\162\165
\163\164\061\033\060\031\006\003\125\004\003\014\022\125\103\101
\040\107\154\157\142\141\154\040\107\062\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\135\337\261\332\132\243\355\135\276\132\145\040\145\003
\220\357
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "UCA Extended Validation Root"
#
# Issuer: CN=UCA Extended Validation Root,O=UniTrust,C=CN
# Serial Number:4f:d2:2b:8f:f5:64:c8:33:9e:4f:34:58:66:23:70:60
# Subject: CN=UCA Extended Validation Root,O=UniTrust,C=CN
# Not Valid Before:
 Fri Mar 13 00:00:00 2015
# Not Valid After : Fri Dec 31 00:00:00 2038
# Fingerprint (SHA-256):
D4:3A:F9:B3:54:73:75:5C:96:84:FC:06:D7:D8:CB:70:EE:5C:28:E7:73:FB:29:4E:B4:1E:E7:17:22:92:4D:24
# Fingerprint (SHA1): A3:A1:B0:6F:24:61:23:4A:E3:36:A5:C2:37:FC:A6:FF:DD:F0:D7:3A
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "UCA Extended Validation Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\021\060\017\006\003\125\004\012\014\010\125\156\151\124\162\165
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\163\164\061\045\060\043\006\003\125\004\003\014\034\125\103\101
\040\105\170\164\145\156\144\145\144\040\126\141\154\151\144\141
\164\151\157\156\040\122\157\157\164
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\021\060\017\006\003\125\004\012\014\010\125\156\151\124\162\165
\163\164\061\045\060\043\006\003\125\004\003\014\034\125\103\101
\040\105\170\164\145\156\144\145\144\040\126\141\154\151\144\141
\164\151\157\156\040\122\157\157\164
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\117\322\053\217\365\144\310\063\236\117\064\130\146\043
\160\140
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\132\060\202\003\102\240\003\002\001\002\002\020\117
\322\053\217\365\144\310\063\236\117\064\130\146\043\160\140\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\107
\061\013\060\011\006\003\125\004\006\023\002\103\116\061\021\060
\017\006\003\125\004\012\014\010\125\156\151\124\162\165\163\164
\061\045\060\043\006\003\125\004\003\014\034\125\103\101\040\105
\170\164\145\156\144\145\144\040\126\141\154\151\144\141\164\151
\157\156\040\122\157\157\164\060\036\027\015\061\065\060\063\061
\063\060\060\060\060\060\060\132\027\015\063\070\061\062\063\061
\060\060\060\060\060\060\132\060\107\061\013\060\011\006\003\125
\004\006\023\002\103\116\061\021\060\017\006\003\125\004\012\014
\010\125\156\151\124\162\165\163\164\061\045\060\043\006\003\125
\004\003\014\034\125\103\101\040\105\170\164\145\156\144\145\144
\040\126\141\154\151\144\141\164\151\157\156\040\122\157\157\164
\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001
\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001
\000\251\011\007\050\023\002\260\231\340\144\252\036\103\026\172
\163\261\221\240\165\076\250\372\343\070\000\172\354\211\152\040
\017\213\305\260\233\063\003\132\206\306\130\206\325\301\205\273
\117\306\234\100\115\312\276\356\151\226\270\255\201\060\232\174
\222\005\353\005\053\232\110\320\270\166\076\226\310\040\273\322
\260\361\217\330\254\105\106\377\252\147\140\264\167\176\152\037
\074\032\122\172\004\075\007\074\205\015\204\320\037\166\012\367
\152\024\337\162\343\064\174\127\116\126\001\076\171\361\252\051
\073\154\372\370\217\155\115\310\065\337\256\353\334\044\356\171
\105\247\205\266\005\210\336\210\135\045\174\227\144\147\011\331
\277\132\025\005\206\363\011\036\354\130\062\063\021\363\167\144
\260\166\037\344\020\065\027\033\362\016\261\154\244\052\243\163
\374\011\037\036\062\031\123\021\347\331\263\054\056\166\056\241
\243\336\176\152\210\011\350\362\007\212\370\262\315\020\347\342

\163\100\223\273\010\321\077\341\374\013\224\263\045\357\174\246
\327\321\257\237\377\226\232\365\221\173\230\013\167\324\176\350
\007\322\142\265\225\071\343\363\361\155\017\016\145\204\212\143
\124\305\200\266\340\236\113\175\107\046\247\001\010\135\321\210
\236\327\303\062\104\372\202\112\012\150\124\177\070\123\003\314
\244\000\063\144\121\131\013\243\202\221\172\136\354\026\302\363
\052\346\142\332\052\333\131\142\020\045\112\052\201\013\107\007
\103\006\160\207\322\372\223\021\051\172\110\115\353\224\307\160
\115\257\147\325\121\261\200\040\001\001\264\172\010\246\220\177
\116\340\357\007\101\207\257\152\245\136\213\373\317\120\262\232
\124\257\303\211\272\130\055\365\060\230\261\066\162\071\176\111
\004\375\051\247\114\171\344\005\127\333\224\271\026\123\215\106
\263\035\225\141\127\126\177\257\360\026\133\141\130\157\066\120
\021\013\330\254\053\225\026\032\016\037\010\315\066\064\145\020
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\327\351\157\053\322\112\005\223\374\236\157\153\147\377\210\361
\116\245\151\112\122\067\005\352\306\026\215\322\304\231\321\202
\053\073\272\065\165\367\121\121\130\363\310\007\335\344\264\003
\177\002\003\001\000\001\243\102\060\100\060\035\006\003\125\035
\016\004\026\004\024\331\164\072\344\060\075\015\367\022\334\176
\132\005\237\036\064\232\367\341\024\060\017\006\003\125\035\023
\001\001\377\004\005\060\003\001\001\377\060\016\006\003\125\035
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\273\301\036\052\201\365\026\113\162\221\310\242\061\271\252\332
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\175\221\013\216\354\220\124\216\274\157\241\114\253\374\164\144
\375\161\232\370\101\007\241\315\221\344\074\232\340\233\062\071
\163\253\052\325\151\310\170\221\046\061\175\342\307\060\361\374
\024\170\167\022\016\023\364\335\026\224\277\113\147\173\160\123
\205\312\260\273\363\070\115\054\220\071\300\015\302\135\153\351
\342\345\325\210\215\326\054\277\253\033\276\265\050\207\022\027
\164\156\374\175\374\217\320\207\046\260\033\373\271\154\253\342
\236\075\025\301\073\056\147\002\130\221\237\357\370\102\037\054
\267\150\365\165\255\317\265\366\377\021\175\302\360\044\245\255
\323\372\240\074\251\372\135\334\245\240\357\104\244\276\326\350
\345\344\023\226\027\173\006\076\062\355\307\267\102\274\166\243
\330\145\070\053\070\065\121\041\016\016\157\056\064\023\100\341
\053\147\014\155\112\101\060\030\043\132\062\125\231\311\027\340
\074\336\366\354\171\255\053\130\031\242\255\054\042\032\225\216
\276\226\220\135\102\127\304\371\024\003\065\053\034\055\121\127
\010\247\072\336\077\344\310\264\003\163\302\301\046\200\273\013
\102\037\255\015\257\046\162\332\314\276\263\243\203\130\015\202

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\305\037\106\121\343\234\030\314\215\233\215\354\111\353\165\120
\325\214\050\131\312\164\064\332\214\013\041\253\036\352\033\345
\307\375\025\076\300\027\252\373\043\156\046\106\313\372\371\261
\162\153\151\317\042\204\013\142\017\254\331\031\000\224\242\166
\074\324\055\232\355\004\236\055\006\142\020\067\122\034\205\162
\033\047\345\314\306\061\354\067\354\143\131\233\013\035\166\314
\176\062\232\210\225\010\066\122\273\336\166\137\166\111\111\255
\177\275\145\040\262\311\301\053\166\030\166\237\126\261
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER
 CK_BBOOL CK_FALSE

# Trust for "UCA Extended Validation Root"
# Issuer: CN=UCA Extended Validation Root,O=UniTrust,C=CN
# Serial Number:4f:d2:2b:8f:f5:64:c8:33:9e:4f:34:58:66:23:70:60
# Subject: CN=UCA Extended Validation Root,O=UniTrust,C=CN
# Not Valid Before: Fri Mar 13 00:00:00 2015
# Not Valid After : Fri Dec 31 00:00:00 2038
# Fingerprint (SHA-256):
D4:3A:F9:B3:54:73:75:5C:96:84:FC:06:D7:D8:CB:70:EE:5C:28:E7:73:FB:29:4E:B4:1E:E7:17:22:92:4D:24
# Fingerprint (SHA1): A3:A1:B0:6F:24:61:23:4A:E3:36:A5:C2:37:FC:A6:FF:DD:F0:D7:3A
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "UCA Extended Validation Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\243\241\260\157\044\141\043\112\343\066\245\302\067\374\246\377
\335\360\327\072
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\241\363\137\103\306\064\233\332\277\214\176\005\123\255\226\342
END
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\021\060\017\006\003\125\004\012\014\010\125\156\151\124\162\165
\163\164\061\045\060\043\006\003\125\004\003\014\034\125\103\101
\040\105\170\164\145\156\144\145\144\040\126\141\154\151\144\141
\164\151\157\156\040\122\157\157\164
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\117\322\053\217\365\144\310\063\236\117\064\130\146\043
\160\140
END
```

```
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Certigna Root CA"
#
# Issuer: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
# Serial Number:00:ca:e9:1b:89:f1:55:03:0d:a3:e6:41:6d:c4:e3:a6:e1
# Subject: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
# Not Valid Before: Tue Oct 01 08:32:27 2013
# Not Valid After : Sat Oct 01 08:32:27 2033
# Fingerprint (SHA-256):
D4:8D:3D:23:EE:DB:50:A4:59:E5:51:97:60:1C:27:77:4B:9D:7B:18:C9:4D:5A:05:95:11:A1:02:50:B9:31:68
#
 Fingerprint (SHA1): 2D:0D:52:14:FF:9E:AD:99:24:01:74:20:47:6E:6C:85:27:27:F5:43
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certigna Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157
\164\151\163\061\034\060\032\006\003\125\004\013\014\023\060\060
\060\062\040\064\070\061\064\066\063\060\070\061\060\060\060\063
\066\061\031\060\027\006\003\125\004\003\014\020\103\145\162\164
\151\147\156\141\040\122\157\157\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157
\164\151\163\061\034\060\032\006\003\125\004\013\014\023\060\060
\060\062\040\064\070\061\064\066\063\060\070\061\060\060\060\063
\066\061\031\060\027\006\003\125\004\003\014\020\103\145\162\164
\151\147\156\141\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\021\000\312\351\033\211\361\125\003\015\243\346\101\155\304
\343\246\341
END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\133\060\202\004\103\240\003\002\001\002\002\021\000
\312\351\033\211\361\125\003\015\243\346\101\155\304\343\246\341
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\132\061\013\060\011\006\003\125\004\006\023\002\106\122\061\022
\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157\164
\151\163\061\034\060\032\006\003\125\004\013\014\023\060\060\060
\062\040\064\070\061\064\066\063\060\070\061\060\060\060\063\066
\061\031\060\027\006\003\125\004\003\014\020\103\145\162\164\151
\147\156\141\040\122\157\157\164\040\103\101\060\036\027\015\061
\063\061\060\060\061\060\070\063\062\062\067\132\027\015\063\063
\061\060\060\061\060\070\063\062\062\067\132\060\132\061\013\060
\011\006\003\125\004\006\023\002\106\122\061\022\060\020\006\003
\125\004\012\014\011\104\150\151\155\171\157\164\151\163\061\034
\060\032\006\003\125\004\013\014\023\060\060\060\062\040\064\070
\061\064\066\063\060\070\061\060\060\060\063\066\061\031\060\027
\006\003\125\004\003\014\020\103\145\162\164\151\147\156\141\040
\122\157\157\164\040\103\101\060\202\002\042\060\015\006\011\052
\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060
\202\002\012\002\202\002\001\000\315\030\071\145\032\131\261\352
\144\026\016\214\224\044\225\174\203\323\305\071\046\334\014\357
\026\127\215\327\330\254\243\102\177\202\312\355\315\133\333\016
\267\055\355\105\010\027\262\331\263\313\326\027\122\162\050\333
\216\116\236\212\266\013\371\236\204\232\115\166\336\042\051\134
\322\263\322\006\076\060\071\251\164\243\222\126\034\241\157\114
\012\040\155\237\043\172\264\306\332\054\344\035\054\334\263\050
\320\023\362\114\116\002\111\241\124\100\236\346\345\005\240\055
\204\310\377\230\154\320\353\212\032\204\010\036\267\150\043\356
\043\325\160\316\155\121\151\020\356\241\172\302\321\042\061\302
\202\205\322\362\125\166\120\174\045\172\311\204\134\013\254\335
\102\116\053\347\202\242\044\211\313\220\262\320\356\043\272\146
\114\273\142\244\371\123\132\144\173\174\230\372\243\110\236\017
\225\256\247\030\364\152\354\056\003\105\257\360\164\370\052\315
\172\135\321\276\104\046\062\051\361\361\365\154\314\176\002\041
\013\237\157\244\077\276\235\123\342\317\175\251\054\174\130\032
\227\341\075\067\067\030\146\050\322\100\305\121\212\214\303\055
\316\123\210\044\130\144\060\026\305\252\340\326\012\246\100\337
\170\366\365\004\174\151\023\204\274\321\321\247\006\317\001\367
\150\300\250\127\273\072\141\255\004\214\223\343\255\374\360\333
\104\155\131\334\111\131\256\254\232\231\066\060\101\173\166\063
\042\207\243\302\222\206\156\371\160\356\256\207\207\225\033\304
\172\275\061\363\324\322\345\231\377\276\110\354\165\365\170\026
\035\246\160\301\177\074\033\241\222\373\317\310\074\326\305\223
\012\217\365\125\072\166\225\316\131\230\212\011\225\167\062\232
\203\272\054\004\072\227\275\324\057\276\327\154\233\242\312\175
\155\046\311\125\325\317\303\171\122\010\011\231\007\044\055\144
\045\153\246\041\151\233\152\335\164\115\153\227\172\101\275\253
\027\371\220\027\110\217\066\371\055\325\305\333\356\252\205\105
\101\372\315\072\105\261\150\346\066\114\233\220\127\354\043\271
\207\010\302\304\011\361\227\206\052\050\115\342\164\300\332\304
\214\333\337\342\241\027\131\316\044\131\164\061\332\177\375\060

\155\331\334\341\152\341\374\137\002\003\001\000\001\243\202\001
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\005\060\003\001\001\377\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\006\060\035\006\003\125\035\016\004\026\004
\024\030\207\126\340\156\167\356\044\065\074\116\163\232\037\326
\341\342\171\176\053\060\037\006\003\125\035\043\004\030\060\026
\200\024\030\207\126\340\156\167\356\044\065\074\116\163\232\037
\326\341\342\171\176\053\060\104\006\003\125\035\040\004\075\060
\073\060\071\006\004\125\035\040\000\060\061\060\057\006\010\053
\006\001\005\005\007\002\001\026\043\150\164\164\160\163\072\057
\057\167\167\167\167\056\143\145\162\164\151\147\156\141\056\146
\162\057\141\165\164\157\162\151\164\145\163\057\060\155\006\003
\125\035\037\004\146\060\144\060\057\240\055\240\053\206\051\150
\164\164\160\072\057\057\143\162\154\056\143\145\162\164\151\147
\156\141\056\146\162\057\143\145\162\164\151\147\156\141\162\157
\157\164\143\141\056\143\162\154\060\061\240\057\240\055\206\053
\150\164\164\160\072\057\057\143\162\154\056\144\150\151\155\171
\157\164\151\163\056\143\157\155\057\143\145\162\164\151\147\156
\141\162\157\157\164\143\141\056\143\162\154\060\015\006\011\052
\206\110\206\367\015\001\001\013\005\000\003\202\002\001\000\224
\270\236\117\360\343\225\010\042\347\315\150\101\367\034\125\325
\174\000\342\055\072\211\135\150\070\057\121\042\013\112\215\313
\351\273\135\076\273\134\075\261\050\376\344\123\125\023\317\241
\220\033\002\035\137\146\106\011\063\050\341\015\044\227\160\323
\020\037\352\144\127\226\273\135\332\347\304\214\117\114\144\106
\035\134\207\343\131\336\102\321\233\250\176\246\211\335\217\034
\311\060\202\355\073\234\315\300\351\031\340\152\330\002\165\067
\253\367\064\050\050\221\362\004\012\117\065\343\140\046\001\372
\320\021\214\371\021\152\356\257\075\303\120\323\217\137\063\171
\074\206\250\163\105\220\214\040\266\162\163\027\043\276\007\145
\345\170\222\015\272\001\300\353\214\034\146\277\254\206\167\001
\224\015\234\346\351\071\215\037\246\121\214\231\014\071\167\341
\264\233\372\034\147\127\157\152\152\216\251\053\114\127\171\172
\127\042\317\315\137\143\106\215\134\131\072\206\370\062\107\142
\243\147\015\030\221\334\373\246\153\365\110\141\163\043\131\216
\002\247\274\104\352\364\111\235\361\124\130\371\140\257\332\030
\244\057\050\105\334\172\240\210\206\135\363\073\347\377\051\065
\200\374\144\103\224\346\343\034\157\276\255\016\052\143\231\053
\311\176\205\366\161\350\006\003\225\376\336\217\110\034\132\324
\222\350\053\356\347\061\333\272\004\152\207\230\347\305\137\357
\175\247\042\367\001\330\115\371\211\320\016\232\005\131\244\236
\230\331\157\053\312\160\276\144\302\125\243\364\351\257\303\222
\051\334\210\026\044\231\074\215\046\230\266\133\267\314\316\267
\067\007\375\046\331\230\205\044\377\131\043\003\232\355\235\235
\250\344\136\070\316\327\122\015\157\322\077\155\261\005\153\111
\316\212\221\106\163\364\366\057\360\250\163\167\016\145\254\241
\215\146\122\151\176\113\150\014\307\036\067\047\203\245\214\307
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\045\124\377\242\332\117\212\141\071\136\256\075\112\214\275
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Certigna Root CA"
# Issuer: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
# Serial Number:00:ca:e9:1b:89:f1:55:03:0d:a3:e6:41:6d:c4:e3:a6:e1
# Subject: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
# Not Valid Before: Tue Oct 01 08:32:27 2013
# Not Valid After : Sat Oct 01 08:32:27 2033
# Fingerprint (SHA-256):
D4:8D:3D:23:EE:DB:50:A4:59:E5:51:97:60:1C:27:77:4B:9D:7B:18:C9:4D:5A:05:95:11:A1:02:50:B9:31:68
# Fingerprint (SHA1): 2D:0D:52:14:FF:9E:AD:99:24:01:74:20:47:6E:6C:85:27:27:F5:43
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certigna Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\055\015\122\024\377\236\255\231\044\001\164\040\107\156\154\205
\047\047\365\103
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\016\134\060\142\047\353\133\274\327\256\142\272\351\325\337\167
END
CKA_ISSUER
 MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157
\164\151\163\061\034\060\032\006\003\125\004\013\014\023\060\060
\060\062\040\064\070\061\064\066\063\060\070\061\060\060\060\063
\066\061\031\060\027\006\003\125\004\003\014\020\103\145\162\164
\151\147\156\141\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\312\351\033\211\361\125\003\015\243\346\101\155\304
\343\246\341
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
```

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#
# Certificate "emSign Root CA - G1"
#
# Issuer: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Serial Number:31:f5:e4:62:0c:6c:58:ed:d6:d8
# Subject: CN=emSign Root CA - G1,O=eMudhra Technologies
 Limited,OU=emSign PKI,C=IN
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):
40:F6:AF:03:46:A9:9A:A1:CD:1D:55:5A:4E:9C:CE:62:C7:F9:63:46:03:EE:40:66:15:83:3D:C8:C8:D0:03:67
# Fingerprint (SHA1): 8A:C7:AD:8F:73:AC:4E:C1:B5:75:4D:A5:40:F4:FC:CF:7C:B5:8E:8C
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign Root CA - G1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\147\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\045\060\043\006\003\125\004\012\023\034\145
\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147
\151\145\163\040\114\151\155\151\164\145\144\061\034\060\032\006
\003\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157
\164\040\103\101\040\055\040\107\061
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\147\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\045\060\043\006\003\125\004\012\023\034\145
\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147
\151\145\163\040\114\151\155\151\164\145\144\061\034\060\032\006
\003\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157
\164\040\103\101\040\055\040\107\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\012\061\365\344\142\014\154\130\355\326\330
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\224\060\202\002\174\240\003\002\001\002\002\012\061
\365\344\142\014\154\130\355\326\330\060\015\006\011\052\206\110
\206\367\015\001\001\013\005\000\060\147\061\013\060\011\006\003
\125\004\006\023\002\111\116\061\023\060\021\006\003\125\004\013
\023\012\145\155\123\151\147\156\040\120\113\111\061\045\060\043
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\006\003\125\004\012\023\034\145\115\165\144\150\162\141\040\124
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\164\145\144\061\034\060\032\006\003\125\004\003\023\023\145\155
\123\151\147\156\040\122\157\157\164\040\103\101\040\055\040\107
\061\060\036\027\015\061\070\060\062\061\070\061\070\063\060\060
\060\132\027\015\064\063\060\062\061\070\061\070\063\060\060\060
\132\060\147\061\013\060\011\006\003\125\004\006\023\002\111\116
\061\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147
\156\040\120\113\111\061\045\060\043\006\003\125\004\012\023\034
\145\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157
\147\151\145\163\040\114\151\155\151\164\145\144\061\034\060\032
\006\003\125\004\003\023\023\145\155\123\151\147\156\040\122\157
\157\164\040\103\101\040\055\040\107\061\060\202\001\042\060\015
\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001
\017\000\060\202\001\012\002\202\001\001\000\223\113\273\351\146
\212\356\235\133\325\064\223\320\033\036\303\347\236\270\144\063
\177\143\170\150\264\315\056\161\165\327\233\040\306\115\051\274
\266\150\140\212\367\041\232\126\065\132\363\166\275\330\315\232
\377\223\126\113\245\131\006\241\223\064\051\335\026\064\165\116
\362\201\264\307\226\116\255\031\025\122\112\376\074\160\165\160
\315\257\053\253\025\232\063\074\252\263\213\252\315\103\375\365
\352\160\377\355\317\021\073\224\316\116\062\026\323\043\100\052
\167\263\257\074\001\054\154\355\231\054\213\331\116\151\230\262
\367\217\101\260\062\170\141\326\015\137\303\372\242\100\222\035
\134\027\346\160\076\065\347\242\267\302\142\342\253\244\070\114
\265\071\065\157\352\003\151\372\072\124\150\205\155\326\362\057
\103\125\036\221\015\016\330\325\152\244\226\321\023\074\054\170
\120\350\072\222\322\027\126\345\065\032\100\034\076\215\054\355
\071\337\102\340\203\101\164\337\243\315\302\206\140\110\150\343
\151\013\124\000\213\344\166\151\041\015\171\116\064\010\136\024
\302\314\261\267\255\327\174\160\212\307\205\002\003\001\000\001
\243\102\060\100\060\035\006\003\125\035\016\004\026\004\024\373
\357\015\206\236\260\343\335\251\271\361\041\027\177\076\374\360
\167\053\032\060\016\006\003\125\035\017\001\001\377\004\004\003
\002\001\006\060\017\006\003\125\035\023\001\001\377\004\005\060
\003\001\001\377\060\015\006\011\052\206\110\206\367\015\001\001
\013\005\000\003\202\001\001\000\131\377\362\214\365\207\175\161
\075\243\237\033\133\321\332\370\323\234\153\066\275\233\251\141
\353\336\026\054\164\075\236\346\165\332\327\272\247\274\102\027
\347\075\221\353\345\175\335\076\234\361\317\222\254\154\110\314
\302\042\077\151\073\305\266\025\057\243\065\306\150\052\034\127
\257\071\357\215\320\065\303\030\014\173\000\126\034\315\213\031
\164\336\276\017\022\340\320\252\241\077\002\064\261\160\316\235
\030\326\010\003\011\106\356\140\340\176\266\304\111\004\121\175
\160\140\274\252\262\377\171\162\172\246\035\075\137\052\370\312
\342\375\071\267\107\271\353\176\337\004\043\257\372\234\006\007
\351\373\143\223\200\100\265\306\154\012\061\050\316\014\237\317
\263\043\065\200\101\215\154\304\067\173\201\057\200\241\100\102

```
\205\351\331\070\215\350\241\123\315\001\277\151\350\132\006\362
\105\013\220\372\256\341\277\235\362\256\127\074\245\256\262\126
\364\213\145\100\351\375\061\201\054\364\071\011\330\356\153\247
\264\246\035\025\245\230\367\001\201\330\205\175\363\121\134\161
\210\336\272\314\037\200\176\112
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "emSign Root CA - G1"
# Issuer: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Serial Number:31:f5:e4:62:0c:6c:58:ed:d6:d8
# Subject: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):
40:F6:AF:03:46:A9:9A:A1:CD:1D:55:5A:4E:9C:CE:62:C7:F9:63:46:03:EE:40:66:15:83:3D:C8:C8:D0:03:67
# Fingerprint (SHA1): 8A:C7:AD:8F:73:AC:4E:C1:B5:75:4D:A5:40:F4:FC:CF:7C:B5:8E:8C
CKA_CLASS
 CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign Root CA - G1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\212\307\255\217\163\254\116\301\265\165\115\245\100\364\374\317
\174\265\216\214
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\234\102\204\127\335\313\013\247\056\225\255\266\363\332\274\254
END
CKA_ISSUER MULTILINE_OCTAL
\060\147\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\045\060\043\006\003\125\004\012\023\034\145
\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147
\151\145\163\040\114\151\155\151\164\145\144\061\034\060\032\006
\003\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157
\164\040\103\101\040\055\040\107\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\012\061\365\344\142\014\154\130\355\326\330
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION
```

```
 CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "emSign ECC Root CA - G3"
#
# Issuer: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Serial Number:3c:f6:07:a9:68:70:0e:da:8b:84
# Subject: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):
86:A1:EC:BA:08:9C:4A:8D:3B:BE:27:34:C6:12:BA:34:1D:81:3E:04:3C:F9:E8:A8:62:CD:5C:57:A3:6B:BE:6B
# Fingerprint (SHA1): 30:43:FA:4F:F2:57:DC:A0:C3:80:EE:2E:58:EA:78:B2:3F:E6:BB:C1
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign ECC Root CA - G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\153\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\045\060\043\006\003\125\004\012\023\034\145
\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147
\151\145\163\040\114\151\155\151\164\145\144\061\040\060\036\006
\003\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103
\040\122\157\157\164\040\103\101\040\055\040\107\063
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\153\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\045\060\043\006\003\125\004\012\023\034\145
\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147
\151\145\163\040\114\151\155\151\164\145\144\061\040\060\036\006
\003\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103
\040\122\157\157\164\040\103\101\040\055\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\012\074\366\007\251\150\160\016\332\213\204
END
CKA_VALUE
 MULTILINE_OCTAL
\060\202\002\116\060\202\001\323\240\003\002\001\002\002\012\074
\366\007\251\150\160\016\332\213\204\060\012\006\010\052\206\110
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\316\075\004\003\003\060\153\061\013\060\011\006\003\125\004\006
\023\002\111\116\061\023\060\021\006\003\125\004\013\023\012\145
\155\123\151\147\156\040\120\113\111\061\045\060\043\006\003\125
\004\012\023\034\145\115\165\144\150\162\141\040\124\145\143\150
\156\157\154\157\147\151\145\163\040\114\151\155\151\164\145\144
\061\040\060\036\006\003\125\004\003\023\027\145\155\123\151\147
\156\040\105\103\103\040\122\157\157\164\040\103\101\040\055\040
\107\063\060\036\027\015\061\070\060\062\061\070\061\070\063\060
\060\060\132\027\015\064\063\060\062\061\070\061\070\063\060\060
\060\132\060\153\061\013\060\011\006\003\125\004\006\023\002\111
\116\061\023\060\021\006\003\125\004\013\023\012\145\155\123\151
\147\156\040\120\113\111\061\045\060\043\006\003\125\004\012\023
\034\145\115\165\144\150\162\141\040\124\145\143\150\156\157\154
\157\147\151\145\163\040\114\151\155\151\164\145\144\061\040\060
\036\006\003\125\004\003\023\027\145\155\123\151\147\156\040\105
\103\103\040\122\157\157\164\040\103\101\040\055\040\107\063\060
\166\060\020\006\007\052\206\110\316\075\002\001\006\005\053\201
\004\000\042\003\142\000\004\043\245\014\270\055\022\365\050\363
\261\262\335\342\002\022\200\236\071\137\111\115\237\311\045\064
\131\164\354\273\006\034\347\300\162\257\350\256\057\341\101\124
\207\024\250\112\262\350\174\202\346\133\152\265\334\263\165\316
\213\006\320\206\043\277\106\325\216\017\077\004\364\327\034\222
\176\366\245\143\302\365\137\216\056\117\241\030\031\002\053\062
\012\202\144\175\026\223\321\243\102\060\100\060\035\006\003\125
\035\016\004\026\004\024\174\135\002\204\023\324\314\212\233\201
\316\027\034\056\051\036\234\110\143\102\060\016\006\003\125\035
\017\001\001\377\004\004\003\002\001\006\060\017\006\003\125\035
\023\001\001\377\004\005\060\003\001\001\377\060\012\006\010\052
\206\110\316\075\004\003\003\003\151\000\060\146\002\061\000\276
\363\141\317\002\020\035\144\225\007\270\030\156\210\205\005\057
\203\010\027\220\312\037\212\114\350\015\033\172\261\255\325\201
\011\107\357\073\254\010\004\174\134\231\261\355\107\007\322\002
\061\000\235\272\125\374\251\112\350\355\355\346\166\001\102\173
\310\370\140\331\215\121\213\125\073\373\214\173\353\145\011\303
\370\226\315\107\250\202\362\026\125\167\044\176\022\020\225\004
\054\243
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "emSign ECC Root CA - G3"
Issuer: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
Serial Number:3c:f6:07:a9:68:70:0e:da:8b:84
Subject: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
Not Valid Before: Sun Feb 18 18:30:00 2018
Not Valid After : Wed Feb 18 18:30:00 2043

```
# Fingerprint (SHA-256):
86:A1:EC:BA:08:9C:4A:8D:3B:BE:27:34:C6:12:BA:34:1D:81:3E:04:3C:F9:E8:A8:62:CD:5C:57:A3:6B:BE:6B
#
 Fingerprint (SHA1): 30:43:FA:4F:F2:57:DC:A0:C3:80:EE:2E:58:EA:78:B2:3F:E6:BB:C1
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign ECC Root CA - G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\060\103\372\117\362\127\334\240\303\200\356\056\130\352\170\262
\077\346\273\301
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\316\013\162\321\237\210\216\320\120\003\350\343\270\213\147\100
END
CKA_ISSUER MULTILINE_OCTAL
\060\153\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\045\060\043\006\003\125\004\012\023\034\145
\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147
\151\145\163\040\114\151\155\151\164\145\144\061\040\060\036\006
\003\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103
\040\122\157\157\164\040\103\101\040\055\040\107\063
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\012\074\366\007\251\150\160\016\332\213\204
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "emSign Root CA - C1"
#
# Issuer: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
# Serial Number:00:ae:cf:00:ba:c4:cf:32:f8:43:b2
# Subject: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):
12:56:09:AA:30:1D:A0:A2:49:B9:7A:82:39:CB:6A:34:21:6F:44:DC:AC:9F:39:54:B1:42:92:F2:E8:C8:60:8F
# Fingerprint (SHA1): E7:2E:F1:DF:FC:B2:09:28:CF:5D:D4:D5:67:37:B1:51:CB:86:4F:01
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
```

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign Root CA -
 C1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\126\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013\145
\115\165\144\150\162\141\040\111\156\143\061\034\060\032\006\003
\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157\164
\040\103\101\040\055\040\103\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\126\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013\145
\115\165\144\150\162\141\040\111\156\143\061\034\060\032\006\003
\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157\164
\040\103\101\040\055\040\103\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\000\256\317\000\272\304\317\062\370\103\262
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\163\060\202\002\133\240\003\002\001\002\002\013\000
\256\317\000\272\304\317\062\370\103\262\060\015\006\011\052\206
\110\206\367\015\001\001\013\005\000\060\126\061\013\060\011\006
\003\125\004\006\023\002\125\123\061\023\060\021\006\003\125\004
\013\023\012\145\155\123\151\147\156\040\120\113\111\061\024\060
\022\006\003\125\004\012\023\013\145\115\165\144\150\162\141\040
\111\156\143\061\034\060\032\006\003\125\004\003\023\023\145\155
\123\151\147\156\040\122\157\157\164\040\103\101\040\055\040\103
\061\060\036\027\015\061\070\060\062\061\070\061\070\063\060\060
\060\132\027\015\064\063\060\062\061\070\061\070\063\060\060\060
\132\060\126\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147
\156\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013
\145\115\165\144\150\162\141\040\111\156\143\061\034\060\032\006
\003\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157
\164\040\103\101\040\055\040\103\061\060\202\001\042\060\015\006
\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017
\000\060\202\001\012\002\202\001\001\000\317\353\251\271\361\231
\005\314\330\050\041\112\363\163\064\121\204\126\020\365\240\117
\054\022\343\372\023\232\047\320\317\371\171\032\164\137\035\171
\071\374\133\370\160\216\340\222\122\367\344\045\371\124\203\331
\035\323\310\132\205\077\136\307\266\007\356\076\300\316\232\257
\254\126\102\052\071\045\160\326\277\265\173\066\255\254\366\163
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\334\315\327\035\212\203\245\373\053\220\025\067\153\034\046\107
\334\073\051\126\223\152\263\301\152\072\235\075\365\301\227\070
\130\005\213\034\021\343\344\264\270\135\205\035\203\376\170\137
\013\105\150\030\110\245\106\163\064\073\376\017\310\166\273\307
\030\363\005\321\206\363\205\355\347\271\331\062\255\125\210\316
\246\266\221\260\117\254\176\025\043\226\366\077\360\040\064\026
\336\012\306\304\004\105\171\177\247\375\276\322\251\245\257\234
\305\043\052\367\074\041\154\275\257\217\116\305\072\262\363\064
\022\374\337\200\032\111\244\324\251\225\367\236\211\136\242\211
\254\224\313\250\150\233\257\212\145\047\315\211\356\335\214\265
\153\051\160\103\240\151\013\344\271\017\002\003\001\000\001\243
\102\060\100\060\035\006\003\125\035\016\004\026\004\024\376\241
\340\160\036\052\003\071\122\132\102\276\134\221\205\172\030\252
\115\265\060\016\006\003\125\035\017\001\001\377\004\004\003\002
\001\006\060\017\006\003\125\035\023\001\001\377\004\005\060\003
\001\001\377\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\003\202\001\001\000\302\112\126\372\025\041\173\050\242
\351\345\035\373\370\055\304\071\226\101\114\073\047\054\304\154
\030\025\200\306\254\257\107\131\057\046\013\343\066\260\357\073
\376\103\227\111\062\231\022\025\133\337\021\051\377\253\123\370
\273\301\170\017\254\234\123\257\127\275\150\214\075\151\063\360
\243\240\043\143\073\144\147\042\104\255\325\161\313\126\052\170
\222\243\117\022\061\066\066\342\336\376\000\304\243\140\017\047
\255\240\260\212\265\066\172\122\241\275\047\364\040\047\142\350
\115\224\044\023\344\012\004\351\074\253\056\310\103\011\112\306
\141\004\345\111\064\176\323\304\310\365\017\300\252\351\272\124
\136\363\143\053\117\117\120\324\376\271\173\231\214\075\300\056
\274\002\053\323\304\100\344\212\007\061\036\233\316\046\231\023
\373\021\352\232\042\014\021\031\307\136\033\201\120\060\310\226
\022\156\347\313\101\177\221\073\242\107\267\124\200\033\334\000
\314\232\220\352\303\303\120\006\142\014\060\300\025\110\247\250
\131\174\341\256\042\242\342\012\172\017\372\142\253\122\114\341
\361\337\312\276\203\015\102
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "emSign Root CA - C1"
Issuer: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
Serial Number:00:ae:cf:00:ba:c4:cf:32:f8:43:b2
Subject: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
Not Valid Before: Sun Feb 18 18:30:00 2018
Not Valid After : Wed Feb
18 18:30:00 2043
Fingerprint (SHA-256):
12:56:09:AA:30:1D:A0:A2:49:B9:7A:82:39:CB:6A:34:21:6F:44:DC:AC:9F:39:54:B1:42:92:F2:E8:C8:60:8F

```
# Fingerprint (SHA1): E7:2E:F1:DF:FC:B2:09:28:CF:5D:D4:D5:67:37:B1:51:CB:86:4F:01
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign Root CA - C1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\347\056\361\337\374\262\011\050\317\135\324\325\147\067\261\121
\313\206\117\001
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\330\343\135\001\041\372\170\132\260\337\272\322\356\052\137\150
END
CKA_ISSUER MULTILINE_OCTAL
\060\126\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013\145
\115\165\144\150\162\141\040\111\156\143\061\034\060\032\006\003
\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157\164
\040\103\101\040\055\040\103\061
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\013\000\256\317\000\272\304\317\062\370\103\262
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "emSign ECC Root CA - C3"
#
# Issuer: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
# Serial Number:7b:71:b6:82:56:b8:12:7c:9c:a8
# Subject: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):
BC:4D:80:9B:15:18:9D:78:DB:3E:1D:8C:F4:F9:72:6A:79:5D:A1:64:3C:A5:F1:35:8E:1D:DB:0E:DC:0D:7E:B3
# Fingerprint (SHA1): B6:AF:43:C2:9B:81:53:7D:F6:EF:6B:C3:1F:1F:60:15:0C:EE:48:66
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign ECC
 Root CA - C3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
```

CKA_SUBJECT MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013\145
\115\165\144\150\162\141\040\111\156\143\061\040\060\036\006\003
\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103\040
\122\157\157\164\040\103\101\040\055\040\103\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013\145
\115\165\144\150\162\141\040\111\156\143\061\040\060\036\006\003
\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103\040
\122\157\157\164\040\103\101\040\055\040\103\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\012\173\161\266\202\126\270\022\174\234\250
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\053\060\202\001\261\240\003\002\001\002\002\012\173
\161\266\202\126\270\022\174\234\250\060\012\006\010\052\206\110
\316\075\004\003\003\060\132\061\013\060\011\006\003\125\004\006
\023\002\125\123\061\023\060\021\006\003\125\004\013\023\012\145
\155\123\151\147\156\040\120\113\111\061\024\060\022\006\003\125
\004\012\023\013\145\115\165\144\150\162\141\040\111\156\143\061
\040\060\036\006\003\125\004\003\023\027\145\155\123\151\147\156
\040\105\103\103\040\122\157\157\164\040\103\101\040\055\040\103
\063\060\036\027\015\061\070\060\062\061\070\061\070\063\060\060
\060\132\027\015\064\063\060\062\061\070\061\070\063\060\060\060
\132\060\132\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147
\156\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013
\145\115\165\144\150\162\141\040\111\156\143\061\040\060\036\006
\003\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103
\040\122\157\157\164\040\103\101\040\055\040\103\063\060\166\060
\020\006\007\052\206\110\316\075\002\001\006\005\053\201\004\000
\042\003\142\000\004\375\245\141\256\173\046\020\035\351\267\042
\060\256\006\364\201\263\261\102\161\225\071\274\323\122\343\257
\257\371\362\227\065\222\066\106\016\207\225\215\271\071\132\351
\273\337\320\376\310\007\101\074\273\125\157\203\243\152\373\142
\260\201\211\002\160\175\110\305\112\343\351\042\124\042\115\223
\273\102\014\257\167\234\043\246\175\327\141\021\316\145\307\370
\177\376\365\362\251\243\102\060\100\060\035\006\003\125\035\016
\004\026\004\024\373\132\110\320\200\040\100\362\250\351\000\007
\151\031\167\247\346\303\364\317\060\016\006\003\125\035\017\001
\001\377\004\004\003\002\001\006\060\017\006\003\125\035\023\001

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\001\377\004\005\060\003\001\001\377\060\012\006\010\052\206\110
\316\075\004\003\003\003\150\000\060\145\002\061\000\264\330\057
\002\211\375\266\114\142\272\103\116\023\204\162\265\256\335\034
\336\326\265\334\126\217\130\100\132\055\336\040\114\042\203\312
\223\250\176\356\022\100\307\326\207\117\370\337\205\002\060\034
\024\144\344\174\226\203\021\234\260\321\132\141\113\246\017\111
\323\000\374\241\374\344\245\377\177\255\327\060\320\307\167\177
\276\201\007\125\060\120\040\024\365\127\070\012\250\061\121
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "emSign ECC Root CA - C3"
# Issuer: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
# Serial Number:7b:71:b6:82:56:b8:12:7c:9c:a8
# Subject: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):
BC:4D:80:9B:15:18:9D:78:DB:3E:1D:8C:F4:F9:72:6A:79:5D:A1:64:3C:A5:F1:35:8E:1D:DB:0E:DC:0D:7E:B3
# Fingerprint (SHA1): B6:AF:43:C2:9B:81:53:7D:F6:EF:6B:C3:1F:1F:60:15:0C:EE:48:66
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE
 CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign ECC Root CA - C3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\266\257\103\302\233\201\123\175\366\357\153\303\037\037\140\025
\014\356\110\146
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\076\123\263\243\201\356\327\020\370\323\260\035\027\222\365\325
END
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013\145
\115\165\144\150\162\141\040\111\156\143\061\040\060\036\006\003
\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103\040
\122\157\157\164\040\103\101\040\055\040\103\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\012\173\161\266\202\126\270\022\174\234\250
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
```

```
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED
 CK_BBOOL CK_FALSE

#
# Certificate "Hongkong Post Root CA 3"
#
# Issuer: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK
# Serial Number:08:16:5f:8a:4c:a5:ec:00:c9:93:40:df:c4:c6:ae:23:b8:1c:5a:a4
# Subject: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK
# Not Valid Before: Sat Jun 03 02:29:46 2017
# Not Valid After : Tue Jun 03 02:29:46 2042
# Fingerprint (SHA-256):
5A:2F:C0:3F:0C:83:B0:90:BB:FA:40:60:4B:09:88:44:6C:76:36:18:3D:F9:84:6E:17:10:1A:44:7F:B8:EF:D6
# Fingerprint (SHA1): 58:A2:D0:EC:20:52:81:5B:C1:F3:F8:64:02:24:4E:C2:8E:02:4B:02
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hongkong Post Root CA 3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\157\061\013\060\011\006\003\125\004\006\023\002\110\113\061
\022\060\020\006\003\125\004\010\023\011\110\157\156\147\040\113
\157\156\147\061\022\060\020\006\003\125\004\007\023\011\110\157
\156\147\040\113\157\156\147\061\026\060\024\006\003\125\004\012
\023\015\110\157\156\147\153\157\156\147\040\120\157\163\164\061
\040\060\036\006\003\125\004\003\023\027\110\157\156\147\153\157
\156\147\040\120\157\163\164\040\122\157\157\164\040\103\101\040
\063
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\157\061\013\060\011\006\003\125\004\006\023\002\110\113\061
\022\060\020\006\003\125\004\010\023\011\110\157\156\147\040\113
\157\156\147\061\022\060\020\006\003\125\004\007\023\011\110\157
\156\147\040\113\157\156\147\061\026\060\024\006\003\125\004\012
\023\015\110\157\156\147\153\157\156\147\040\120\157\163\164\061
\040\060\036\006\003\125\004\003\023\027\110\157\156\147\153\157
\156\147\040\120\157\163\164\040\122\157\157\164\040\103\101\040
\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\010\026\137\212\114\245\354\000\311\223\100\337\304\306
\256\043\270\034\132\244
END
```

CKA_VALUE MULTILINE_OCTAL

\060\202\005\317\060\202\003\267\240\003\002\001\002\002\024\010
\026\137\212\114\245\354\000\311\223\100\337\304\306\256\043\270
\034\132\244\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\060\157\061\013\060\011\006\003\125\004\006\023\002\110
\113\061\022\060\020\006\003\125\004\010\023\011\110\157\156\147
\040\113\157\156\147\061\022\060\020\006\003\125\004\007\023\011
\110\157\156\147\040\113\157\156\147\061\026\060\024\006\003\125
\004\012\023\015\110\157\156\147\153\157\156\147\040\120\157\163
\164\061\040\060\036\006\003\125\004\003\023\027\110\157\156\147
\153\157\156\147\040\120\157\163\164\040\122\157\157\164\040\103
\101\040\063\060\036\027\015\061\067\060\066\060\063\060\062\062
\071\064\066\132\027\015\064\062\060\066\060\063\060\062\062\071
\064\066\132\060\157\061\013\060\011\006\003\125\004\006\023\002
\110\113\061\022\060\020\006\003\125\004\010\023\011\110\157\156
\147\040\113\157\156\147\061\022\060\020\006\003\125\004\007\023
\011\110\157\156\147\040\113\157\156\147\061\026\060\024\006\003
\125\004\012\023\015\110\157\156\147\153\157\156\147\040\120\157
\163\164\061\040\060\036\006\003\125\004\003\023\027\110\157\156
\147\153\157\156\147\040\120\157\163\164\040\122\157\157\164\040
\103\101\040\063\060\202\002\042\060\015\006\011\052\206\110\206
\367\015\001\001\001\005\000\003\202\002\017\000\060\202\002\012
\002\202\002\001\000\263\210\327\352\316\017\040\116\276\346\326
\003\155\356\131\374\302\127\337\051\150\241\203\016\076\150\307
\150\130\234\034\140\113\211\103\014\271\324\025\262\356\301\116
\165\351\265\247\357\345\351\065\231\344\314\034\347\113\137\215
\063\060\040\063\123\331\246\273\325\076\023\216\351\037\207\111
\255\120\055\120\312\030\276\001\130\242\023\160\226\273\211\210
\126\200\134\370\275\054\074\341\114\127\210\273\323\271\225\357
\313\307\366\332\061\164\050\246\346\124\211\365\101\061\312\345
\046\032\315\202\340\160\332\073\051\273\325\003\365\231\272\125
\365\144\321\140\016\263\211\111\270\212\057\005\322\204\105\050
\174\217\150\120\022\170\374\013\265\123\313\302\230\034\204\243
\236\260\276\043\244\332\334\310\053\036\332\156\105\036\211\230
\332\371\000\056\006\351\014\073\160\325\120\045\210\231\313\315
\163\140\367\325\377\065\147\305\241\274\136\253\315\112\270\105
\353\310\150\036\015\015\024\106\022\343\322\144\142\212\102\230
\274\264\306\010\010\370\375\250\114\144\234\166\001\275\057\251
\154\063\017\330\077\050\270\074\151\001\102\206\176\151\301\311
\006\312\345\172\106\145\351\302\326\120\101\056\077\267\344\355
\154\327\277\046\001\021\242\026\051\112\153\064\006\220\354\023
\322\266\373\152\166\322\074\355\360\326\055\335\341\025\354\243
\233\057\054\311\076\053\344\151\073\377\162\045\261\066\206\133
\307\177\153\213\125\033\112\305\040\141\075\256\313\120\341\010
\072\276\260\217\143\101\123\060\010\131\074\230\035\167\272\143
\221\172\312\020\120\140\277\360\327\274\225\207\217\227\305\376
\227\152\001\224\243\174\133\205\035\052\071\072\320\124\241\321
\071\161\235\375\041\371\265\173\360\342\340\002\217\156\226\044

\045\054\240\036\054\250\304\211\247\357\355\231\006\057\266\012
\114\117\333\242\314\067\032\257\107\205\055\212\137\304\064\064
\114\000\375\030\223\147\023\321\067\346\110\264\213\006\305\127
\173\031\206\012\171\313\000\311\122\257\102\377\067\217\341\243
\036\172\075\120\253\143\006\347\025\265\077\266\105\067\224\067
\261\176\362\110\303\177\305\165\376\227\215\105\217\032\247\032
\162\050\032\100\017\002\003\001\000\001\243\143\060\141\060\017
\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060
\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060
\037\006\003\125\035\043\004\030\060\026\200\024\027\235\315\036
\213\326\071\053\160\323\134\324\240\270\037\260\000\374\305\141
\060\035\006\003\125\035\016\004\026\004\024\027\235\315\036\213
\326\071\053\160\323\134\324\240\270\037\260\000\374\305\141\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\003\202
\002\001\000\126\325\173\156\346\042\001\322\102\233\030\325\016
\327\146\043\134\343\376\240\307\222\322\351\224\255\113\242\306
\354\022\174\164\325\110\322\131\024\231\300\353\271\321\353\364
\110\060\133\255\247\127\163\231\251\323\345\267\321\056\131\044
\130\334\150\056\056\142\330\152\344\160\013\055\040\120\040\244
\062\225\321\000\230\273\323\375\367\062\362\111\256\306\172\340
\107\276\156\316\313\243\162\072\055\151\135\313\310\350\105\071
\324\372\102\301\021\114\167\135\222\373\152\377\130\104\345\353
\201\236\257\240\231\255\276\251\001\146\313\070\035\074\337\103
\037\364\115\156\264\272\027\106\374\175\375\207\201\171\152\015
\063\017\372\057\370\024\271\200\263\135\115\252\227\341\371\344
\030\305\370\325\070\214\046\074\375\362\050\342\356\132\111\210
\054\337\171\075\216\236\220\074\275\101\112\072\335\133\366\232
\264\316\077\045\060\177\062\175\242\003\224\320\334\172\241\122
\336\156\223\215\030\046\375\125\254\275\217\233\322\317\257\347
\206\054\313\037\011\157\243\157\251\204\324\163\277\115\241\164
\033\116\043\140\362\314\016\252\177\244\234\114\045\250\262\146
\073\070\377\331\224\060\366\162\204\276\150\125\020\017\306\163
\054\026\151\223\007\376\261\105\355\273\242\125\152\260\332\265
\112\002\045\047\205\327\267\267\206\104\026\211\154\200\053\076
\227\251\234\325\176\125\114\306\336\105\020\034\352\351\073\237
\003\123\356\356\172\001\002\026\170\324\350\302\276\106\166\210
\023\077\042\273\110\022\035\122\000\264\002\176\041\032\036\234
\045\364\363\075\136\036\322\034\371\263\055\266\367\067\134\306
\313\041\116\260\367\231\107\030\205\301\053\272\125\256\006\352
\320\007\262\334\253\320\202\226\165\316\322\120\376\231\347\317
\057\237\347\166\321\141\052\373\041\273\061\320\252\237\107\244
\262\042\312\026\072\120\127\304\133\103\147\305\145\142\003\111
\001\353\103\331\330\370\236\255\317\261\143\016\105\364\240\132
\054\233\055\305\246\300\255\250\107\364\047\114\070\015\056\033
\111\073\122\364\350\210\203\053\124\050\324\362\065\122\264\062
\203\142\151\144\014\221\234\237\227\352\164\026\375\037\021\006
\232\233\364
END

```
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Hongkong Post Root CA 3"
# Issuer: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK
# Serial Number:08:16:5f:8a:4c:a5:ec:00:c9:93:40:df:c4:c6:ae:23:b8:1c:5a:a4
# Subject: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK
# Not Valid Before: Sat Jun 03 02:29:46 2017
# Not Valid After : Tue Jun 03 02:29:46 2042
# Fingerprint (SHA-256):
5A:2F:C0:3F:0C:83:B0:90:BB:FA:40:60:4B:09:88:44:6C:76:36:18:3D:F9:84:6E:17:10:1A:44:7F:B8:EF:D6
# Fingerprint (SHA1): 58:A2:D0:EC:20:52:81:5B:C1:F3:F8:64:02:24:4E:C2:8E:02:4B:02
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hongkong Post Root CA 3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\130\242\320\354\040\122\201\133\301\363\370\144\002\044\116\302
\216\002\113\002
END
CKA_CERT_MD5_HASH
 MULTILINE_OCTAL
\021\374\237\275\163\060\002\212\375\077\363\130\271\313\040\360
END
CKA_ISSUER MULTILINE_OCTAL
\060\157\061\013\060\011\006\003\125\004\006\023\002\110\113\061
\022\060\020\006\003\125\004\010\023\011\110\157\156\147\040\113
\157\156\147\061\022\060\020\006\003\125\004\007\023\011\110\157
\156\147\040\113\157\156\147\061\026\060\024\006\003\125\004\012
\023\015\110\157\156\147\153\157\156\147\040\120\157\163\164\061
\040\060\036\006\003\125\004\003\023\027\110\157\156\147\153\157
\156\147\040\120\157\163\164\040\122\157\157\164\040\103\101\040
\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\010\026\137\212\114\245\354\000\311\223\100\337\304\306
\256\043\270\034\132\244
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL
 CK_FALSE

#
```

```
# Certificate "Entrust Root Certification Authority - G4"
#
# Issuer: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use
only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Serial Number:00:d9:b5:43:7f:af:a9:39:0f:00:00:00:00:55:65:ad:58
# Subject: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use
only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Not Valid Before: Wed May 27 11:11:16 2015
# Not Valid After : Sun Dec 27 11:41:16 2037
# Fingerprint (SHA-256):
DB:35:17:D1:F6:73:2A:2D:5A:B9:7C:53:3E:C7:07:79:EE:32:70:A6:2F:B4:AC:42:38:37:24:60:E6:F0:1E:88
# Fingerprint (SHA1): 14:88:4E:86:26:37:B0:26:AF:59:62:5C:40:77:EC:35:29:BA:96:01
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - G4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE
 CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\276\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162
\155\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051
\040\062\060\061\065\040\105\156\164\162\165\163\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060
\060\006\003\125\004\003\023\051\105\156\164\162\165\163\164\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107
\064
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\276\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162
\155\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051
\040\062\060\061\065\040\105\156\164\162\165\163\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060
\060\006\003\125\004\003\023\051\105\156\164\162\165\163\164\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107
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\064
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
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\145\255\130
END
CKA_VALUE MULTILINE_OCTAL
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\331\265\103\177\257\251\071\017\000\000\000\000\125\145\255\130
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\201\276\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165\163
\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004\013
\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165\163
\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162\155
\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051\040
\062\060\061\065\040\105\156\164\162\165\163\164\054\040\111\156
\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162\151
\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060\060
\006\003\125\004\003\023\051\105\156\164\162\165\163\164\040\122
\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107\064
\060\036\027\015\061\065\060\065\062\067\061\061\061\061\061\066
\132\027\015\063\067\061\062\062\067\061\061\064\061\061\066\132
\060\201\276\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162
\155\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051
\040\062\060\061\065\040\105\156\164\162\165\163\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060
\060\006\003\125\004\003\023\051\105\156\164\162\165\163\164\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107
\064\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001
\001\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002
\001\000\261\354\054\102\356\342\321\060\377\245\222\107\342\055
\303\272\144\227\155\312\367\015\265\131\301\263\313\250\150\031
\330\257\204\155\060\160\135\176\363\056\322\123\231\341\376\037
\136\331\110\257\135\023\215\333\377\143\063\115\323\000\002\274
\304\370\321\006\010\224\171\130\212\025\336\051\263\375\375\304
\117\350\252\342\240\073\171\315\277\153\103\062\335\331\164\020
\271\367\364\150\324\273\320\207\325\252\113\212\052\157\052\004
\265\262\246\307\240\172\346\110\253\322\321\131\314\326\176\043
\346\227\154\360\102\345\334\121\113\025\101\355\111\112\311\336

\020\227\326\166\301\357\245\265\066\024\227\065\330\170\042\065
\122\357\103\275\333\047\333\141\126\202\064\334\313\210\140\014
\013\132\345\054\001\306\124\257\327\252\301\020\173\322\005\132
\270\100\236\206\247\303\220\206\002\126\122\011\172\234\322\047
\202\123\112\145\122\152\365\074\347\250\362\234\257\213\275\323
\016\324\324\136\156\207\236\152\075\105\035\321\135\033\364\351
\012\254\140\231\373\211\264\377\230\054\317\174\035\351\002\252
\004\232\036\270\334\210\156\045\263\154\146\367\074\220\363\127
\301\263\057\365\155\362\373\312\241\370\051\235\106\213\263\152
\366\346\147\007\276\054\147\012\052\037\132\262\076\127\304\323
\041\041\143\145\122\221\033\261\231\216\171\176\346\353\215\000
\331\132\252\352\163\350\244\202\002\107\226\376\133\216\124\141
\243\353\057\113\060\260\213\043\165\162\174\041\074\310\366\361
\164\324\034\173\243\005\125\356\273\115\073\062\276\232\167\146
\236\254\151\220\042\007\037\141\072\226\276\345\232\117\314\005
\074\050\131\323\301\014\124\250\131\141\275\310\162\114\350\334
\237\207\177\275\234\110\066\136\225\243\016\271\070\044\125\374
\165\146\353\002\343\010\064\051\112\306\343\053\057\063\240\332
\243\206\245\022\227\375\200\053\332\024\102\343\222\275\076\362
\135\136\147\164\056\034\210\107\051\064\137\342\062\250\234\045
\067\214\272\230\000\227\213\111\226\036\375\045\212\254\334\332
\330\135\164\156\146\260\377\104\337\241\030\306\276\110\057\067
\224\170\370\225\112\077\177\023\136\135\131\375\164\206\103\143
\163\111\002\003\001\000\001\243\102\060\100\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006\003
\125\035\017\001\001\377\004\004\003\002\001\006\060\035\006\003
\125\035\016\004\026\004\024\237\070\304\126\043\303\071\350\240
\161\154\350\124\114\344\350\072\261\277\147\060\015\006\011\052
\206\110\206\367\015\001\001\013\005\000\003\202\002\001\000\022
\345\102\246\173\213\017\014\344\106\245\266\140\100\207\214\045
\176\255\270\150\056\133\306\100\166\074\003\370\311\131\364\363
\253\142\316\020\215\264\132\144\214\150\300\260\162\103\064\322
\033\013\366\054\123\322\312\220\113\206\146\374\252\203\042\364
\213\032\157\046\110\254\166\167\010\277\305\230\134\364\046\211
\236\173\303\271\144\062\001\177\323\303\335\130\155\354\261\253
\204\125\164\167\204\004\047\122\153\206\114\316\335\271\145\377
\326\306\136\237\232\020\231\113\165\152\376\152\351\227\040\344
\344\166\172\306\320\044\252\220\315\040\220\272\107\144\373\177
\007\263\123\170\265\012\142\362\163\103\316\101\053\201\152\056
\205\026\224\123\324\153\137\162\042\253\121\055\102\325\000\234
\231\277\336\273\224\073\127\375\232\365\206\313\126\073\133\210
\001\345\174\050\113\003\371\111\203\174\262\177\174\343\355\216
\241\177\140\123\216\125\235\120\064\022\017\267\227\173\154\207
\112\104\347\365\155\354\200\067\360\130\031\156\112\150\166\360
\037\222\344\352\265\222\323\141\121\020\013\255\247\331\137\307
\137\334\037\243\134\214\241\176\233\267\236\323\126\157\146\136
\007\226\040\355\013\164\373\146\116\213\021\025\351\201\111\176
\157\260\324\120\177\042\327\137\145\002\015\246\364\205\036\330

\256\006\113\112\247\322\061\146\302\370\316\345\010\246\244\002
\226\104\150\127\304\325\063\317\031\057\024\304\224\034\173\244
\331\360\237\016\261\200\342\321\236\021\144\251\210\021\072\166
\202\345\142\302\200\330\244\203\355\223\357\174\057\220\260\062
\114\226\025\150\110\122\324\231\010\300\044\350\034\343\263\245
\041\016\222\300\220\037\317\040\137\312\073\070\307\267\155\072
\363\346\104\270\016\061\153\210\216\160\353\234\027\122\250\101
\224\056\207\266\347\246\022\305\165\337\133\300\012\156\173\244
\344\136\206\371\066\224\337\167\303\351\015\300\071\361\171\273
\106\216\253\103\131\047\267\040\273\043\351\126\100\041\354\061
\075\145\252\103\362\075\337\160\104\341\272\115\046\020\073\230
\237\363\310\216\033\070\126\041\152\121\223\323\221\312\106\332
\211\267\075\123\203\054\010\037\213\217\123\335\377\254\037
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE

Trust for "Entrust Root Certification Authority - G4"
Issuer: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
Serial Number:00:d9:b5:43:7f:af:a9:39:0f:00:00:00:00:55:65:ad:58
Subject: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
Not Valid Before: Wed May 27 11:11:16 2015
Not Valid After : Sun Dec 27 11:41:16 2037
Fingerprint (SHA-256): DB:35:17:D1:F6:73:2A:2D:5A:B9:7C:53:3E:C7:07:79:EE:32:70:A6:2F:B4:AC:42:38:37:24:60:E6:F0:1E:88
Fingerprint (SHA1): 14:88:4E:86:26:37:B0:26:AF:59:62:5C:40:77:EC:35:29:BA:96:01
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - G4"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\024\210\116\206\046\067\260\046\257\131\142\134\100\167\354\065
\051\272\226\001
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\211\123\361\203\043\267\174\216\005\361\214\161\070\116\037\210
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\276\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162
\155\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051

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\040\062\060\061\065\040\105\156\164\162\165\163\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060
\060\006\003\125\004\003\023\051\105\156\164\162\165\163\164\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107
\064
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\021\000\331\265\103\177\257\251\071\017\000\000\000\000\125
\145\255\130
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Microsoft ECC Root Certificate Authority 2017"
#
# Issuer: CN=Microsoft ECC Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Serial Number:66:f2:3d:af:87:de:8b:b1:4a:ea:0c:57:31:01:c2:ec
# Subject: CN=Microsoft ECC Root Certificate Authority
 2017,O=Microsoft Corporation,C=US
# Not Valid Before: Wed Dec 18 23:06:45 2019
# Not Valid After : Fri Jul 18 23:16:04 2042
# Fingerprint (SHA-256):
35:8D:F3:9D:76:4A:F9:E1:B7:66:E9:C9:72:DF:35:2E:E1:5C:FA:C2:27:AF:6A:D1:D7:0E:8E:4A:6E:DC:BA:02
# Fingerprint (SHA1): 99:9A:64:C3:7F:F4:7D:9F:AB:95:F1:47:69:89:14:60:EE:C4:C3:C5
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft ECC Root Certificate Authority 2017"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\036\060\034\006\003\125\004\012\023\025\115\151\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\066\060\064\006\003\125\004\003\023\055\115\151\143\162\157\163
\157\146\164\040\105\103\103\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171\040\062\060\061\067
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
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\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\036\060\034\006\003\125\004\012\023\025\115\151\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\066\060\064\006\003\125\004\003\023\055\115\151\143\162\157\163
\157\146\164\040\105\103\103\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171\040\062\060\061\067
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\146\362\075\257\207\336\213\261\112\352\014\127\061\001
\302\354
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\131\060\202\001\337\240\003\002\001\002\002\020\146
\362\075\257\207\336\213\261\112\352\014\127\061\001\302\354\060
\012\006\010\052\206\110\316\075\004\003\003\060\145\061\013\060
\011\006\003\125\004\006\023\002\125\123\061\036\060\034\006\003
\125\004\012\023\025\115\151\143\162\157\163\157\146\164\040\103
\157\162\160\157\162\141\164\151\157\156\061\066\060\064\006\003
\125\004\003\023\055\115\151\143\162\157\163\157\146\164\040\105
\103\103\040\122\157\157\164\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171\040\062\060
\061\067\060\036\027\015\061\071\061\062\061\070\062\063\060\066
\064\065\132\027\015\064\062\060\067\061\070\062\063\061\066\060
\064\132\060\145\061\013\060\011\006\003\125\004\006\023\002\125
\123\061\036\060\034\006\003\125\004\012\023\025\115\151\143\162
\157\163\157\146\164\040\103\157\162\160\157\162\141\164\151\157
\156\061\066\060\064\006\003\125\004\003\023\055\115\151\143\162
\157\163\157\146\164\040\105\103\103\040\122\157\157\164\040\103
\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157
\162\151\164\171\040\062\060\061\067\060\166\060\020\006\007\052
\206\110\316\075\002\001\006\005\053\201\004\000\042\003\142\000
\004\324\274\075\002\102\165\101\023\043\315\200\004\206\002\121
\057\152\250\201\142\013\145\314\366\312\235\036\157\112\146\121
\242\003\331\235\221\372\266\026\261\214\156\336\174\315\333\171
\246\057\316\273\316\161\057\345\245\253\050\354\143\004\146\231
\370\372\362\223\020\005\341\201\050\102\343\306\150\364\346\033
\204\140\112\211\257\355\171\017\073\316\361\366\104\365\001\170
\300\243\124\060\122\060\016\006\003\125\035\017\001\001\377\004
\004\003\002\001\206\060\017\006\003\125\035\023\001\001\377\004
\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026\004
\024\310\313\231\162\160\122\014\370\346\276\262\004\127\051\052
\317\102\020\355\065\060\020\006\011\053\006\001\004\001\202\067
\025\001\004\003\002\001\000\060\012\006\010\052\206\110\316\075
\004\003\003\003\150\000\060\145\002\060\130\362\115\352\014\371
\137\136\356\140\051\313\072\362\333\326\062\204\031\077\174\325
\057\302\261\314\223\256\120\273\011\062\306\306\355\176\311\066
\224\022\344\150\205\006\242\033\320\057\002\061\000\231\351\026

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\264\016\372\126\110\324\244\060\026\221\170\333\124\214\145\001
\212\347\120\146\302\061\267\071\272\270\032\042\007\116\374\153
\124\026\040\377\053\265\347\114\014\115\246\117\163
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Microsoft ECC Root Certificate Authority 2017"
# Issuer: CN=Microsoft ECC Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Serial Number:66:f2:3d:af:87:de:8b:b1:4a:ea:0c:57:31:01:c2:ec
# Subject: CN=Microsoft ECC Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Not Valid Before: Wed Dec 18 23:06:45 2019
# Not Valid After : Fri Jul 18 23:16:04 2042
# Fingerprint (SHA-256):
35:8D:F3:9D:76:4A:F9:E1:B7:66:E9:C9:72:DF:35:2E:E1:5C:FA:C2:27:AF:6A:D1:D7:0E:8E:4A:6E:DC:BA:02
# Fingerprint (SHA1): 99:9A:64:C3:7F:F4:7D:9F:AB:95:F1:47:69:89:14:60:EE:C4:C3:C5
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft ECC Root Certificate
 Authority 2017"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\231\232\144\303\177\364\175\237\253\225\361\107\151\211\024\140
\356\304\303\305
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\335\241\003\346\112\223\020\321\277\360\031\102\313\376\355\147
END
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\036\060\034\006\003\125\004\012\023\025\115\151\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\066\060\064\006\003\125\004\003\023\055\115\151\143\162\157\163
\157\146\164\040\105\103\103\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171\040\062\060\061\067
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\146\362\075\257\207\336\213\261\112\352\014\127\061\001
\302\354
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED
```

```
 CK_BBOOL CK_FALSE

#
# Certificate "Microsoft RSA Root Certificate Authority 2017"
#
# Issuer: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Serial Number:1e:d3:97:09:5f:d8:b4:b3:47:70:1e:aa:be:7f:45:b3
# Subject: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Not Valid Before: Wed Dec 18 22:51:22 2019
# Not Valid After : Fri Jul 18 23:00:23 2042
# Fingerprint (SHA-256):
C7:41:F7:0F:4B:2A:8D:88:BF:2E:71:C1:41:22:EF:53:EF:10:EB:A0:CF:A5:E6:4C:FA:20:F4:18:85:30:73:E0
# Fingerprint (SHA1): 73:A5:E6:4A:3B:FF:83:16:FF:0E:DC:CC:61:8A:90:6E:4E:AE:4D:74
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft RSA Root Certificate Authority 2017"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\036\060\034\006\003\125\004\012\023\025\115\151\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\066\060\064\006\003\125\004\003\023\055\115\151\143\162\157\163
\157\146\164\040\122\123\101\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171\040\062\060\061\067
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\036\060\034\006\003\125\004\012\023\025\115\151\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\066\060\064\006\003\125\004\003\023\055\115\151\143\162\157\163
\157\146\164\040\122\123\101\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171\040\062\060\061\067
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\036\323\227\011\137\330\264\263\107\160\036\252\276\177
\105\263
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\250\060\202\003\220\240\003\002\001\002\002\020\036
\323\227\011\137\330\264\263\107\160\036\252\276\177\105\263\060
\015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\145
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\036\060
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\034\006\003\125\004\012\023\025\115\151\143\162\157\163\157\146
\164\040\103\157\162\160\157\162\141\164\151\157\156\061\066\060
\064\006\003\125\004\003\023\055\115\151\143\162\157\163\157\146
\164\040\122\123\101\040\122\157\157\164\040\103\145\162\164\151
\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164\171
\040\062\060\061\067\060\036\027\015\061\071\061\062\061\070\062
\062\065\061\062\062\132\027\015\064\062\060\067\061\070\062\063
\060\060\062\063\132\060\145\061\013\060\011\006\003\125\004\006
\023\002\125\123\061\036\060\034\006\003\125\004\012\023\025\115
\151\143\162\157\163\157\146\164\040\103\157\162\160\157\162\141
\164\151\157\156\061\066\060\064\006\003\125\004\003\023\055\115
\151\143\162\157\163\157\146\164\040\122\123\101\040\122\157\157
\164\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165
\164\150\157\162\151\164\171\040\062\060\061\067\060\202\002\042
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\002\017\000\060\202\002\012\002\202\002\001\000\312\133\276
\224\063\214\051\225\221\026\012\225\275\107\142\301\211\363\231
\066\337\106\220\311\245\355\170\152\157\107\221\150\370\047\147
\120\063\035\241\246\373\340\345\103\243\204\002\127\001\135\234
\110\100\202\123\020\274\277\307\073\150\220\266\202\055\345\364
\145\320\314\155\031\314\225\371\173\254\112\224\255\016\336\113
\103\035\207\007\222\023\220\200\203\144\065\071\004\374\345\351
\154\263\266\037\120\224\070\145\120\134\027\106\271\266\205\265
\034\265\027\350\326\105\235\330\262\046\260\312\304\160\112\256
\140\244\335\263\331\354\374\073\325\127\162\274\077\310\311\262
\336\113\153\370\043\154\003\300\005\275\225\307\315\163\073\146
\200\144\343\032\254\056\371\107\005\362\006\266\233\163\365\170
\063\133\307\241\373\047\052\241\264\232\221\214\221\323\072\202
\076\166\100\264\315\122\141\121\160\050\077\305\305\132\362\311
\214\111\273\024\133\115\310\377\147\115\114\022\226\255\365\376
\170\250\227\207\327\375\136\040\200\334\241\113\042\373\324\211
\255\272\316\107\227\107\125\173\217\105\310\147\050\204\225\034
\150\060\357\357\111\340\065\173\144\347\230\260\224\332\115\205
\073\076\125\304\050\257\127\363\236\023\333\106\047\237\036\242
\136\104\203\244\245\312\325\023\263\113\077\304\343\302\346\206
\141\244\122\060\271\172\040\117\157\017\070\123\313\063\014\023
\053\217\326\232\275\052\310\055\261\034\175\113\121\312\107\321
\110\047\162\135\207\353\325\105\346\110\145\235\257\122\220\272
\133\242\030\145\127\022\237\150\271\324\025\153\224\304\151\042
\230\364\063\340\355\371\121\216\101\120\311\064\117\166\220\254
\374\070\301\330\341\173\271\343\343\224\341\106\151\313\016\012
\120\153\023\272\254\017\067\132\267\022\265\220\201\036\126\256
\127\042\206\331\311\322\321\327\121\343\253\073\306\125\375\036
\016\323\164\012\321\332\252\352\151\270\227\050\217\110\304\007
\370\122\103\072\364\312\125\065\054\260\246\152\300\234\371\362
\201\341\022\152\300\105\331\147\263\316\377\043\242\211\012\124
\324\024\271\052\250\327\354\371\253\315\045\130\062\171\217\220
\133\230\071\304\010\006\301\254\177\016\075\000\245\002\003\001

\000\001\243\124\060\122\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\206\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026
\004\024\011\313\131\177\206\262\160\217\032\303\071\343\300\331
\351\277\273\115\262\043\060\020\006\011\053\006\001\004\001\202
\067\025\001\004\003\002\001\000\060\015\006\011\052\206\110\206
\367\015\001\001\014\005\000\003\202\002\001\000\254\257\076\135
\302\021\226\211\216\243\347\222\326\227\025\270\023\242\246\102
\056\002\315\026\005\131\047\312\040\350\272\270\350\032\354\115
\250\227\126\256\145\103\261\217\000\233\122\315\125\315\123\071
\155\142\114\213\015\133\174\056\104\277\203\020\217\363\123\202
\200\303\117\072\307\156\021\077\346\343\026\221\204\373\155\204
\177\064\164\255\211\247\316\271\327\327\237\204\144\222\276\225
\241\255\011\123\063\335\356\012\352\112\121\216\157\125\253\272
\265\224\106\256\214\177\330\242\120\045\145\140\200\106\333\063
\004\256\154\265\230\164\124\045\334\223\344\370\343\125\025\075
\270\155\303\012\244\022\301\151\205\156\337\144\361\123\231\341
\112\165\040\235\225\017\344\326\334\003\361\131\030\350\107\211
\262\127\132\224\266\251\330\027\053\027\111\345\166\313\301\126
\231\072\067\261\377\151\054\221\221\223\341\337\114\243\067\166
\115\241\237\370\155\036\035\323\372\354\373\364\105\035\023\155
\317\367\131\345\042\047\162\053\206\363\127\273\060\355\044\115
\334\175\126\273\243\263\370\064\171\211\301\340\362\002\141\367
\246\374\017\273\034\027\013\256\101\331\174\275\047\243\375\056
\072\321\223\224\261\163\035\044\213\257\133\040\211\255\267\147
\146\171\365\072\306\246\226\063\376\123\222\310\106\261\021\221
\306\231\177\217\311\326\146\061\040\101\020\207\055\014\326\301
\257\064\230\312\144\203\373\023\127\321\301\360\074\172\214\245
\301\375\225\041\240\161\301\223\147\161\022\352\217\210\012\151
\031\144\231\043\126\373\254\052\056\160\276\146\304\014\204\357
\345\213\363\223\001\370\152\220\223\147\113\262\150\243\265\142
\217\351\077\214\172\073\136\017\347\214\270\306\174\357\067\375
\164\342\310\117\063\162\341\224\071\155\275\022\257\276\014\116
\160\174\033\157\215\263\062\223\163\104\026\155\350\364\367\340
\225\200\217\226\135\070\244\364\253\336\012\060\207\223\330\115
\000\161\142\105\047\113\072\102\204\133\177\145\267\147\064\122
\055\234\026\153\252\250\330\173\243\102\114\161\307\014\312\076
\203\344\246\357\267\001\060\136\121\243\171\365\160\151\246\101
\104\017\206\260\054\221\306\075\352\256\017\204
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Microsoft RSA
Root Certificate Authority 2017"
Issuer: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US

```
# Serial Number:1e:d3:97:09:5f:d8:b4:b3:47:70:1e:aa:be:7f:45:b3
# Subject: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Not Valid Before: Wed Dec 18 22:51:22 2019
# Not Valid After : Fri Jul 18 23:00:23 2042
# Fingerprint (SHA-256):
C7:41:F7:0F:4B:2A:8D:88:BF:2E:71:C1:41:22:EF:53:EF:10:EB:A0:CF:A5:E6:4C:FA:20:F4:18:85:30:73:E0
# Fingerprint (SHA1): 73:A5:E6:4A:3B:FF:83:16:FF:0E:DC:CC:61:8A:90:6E:4E:AE:4D:74
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft RSA Root Certificate Authority 2017"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\163\245\346\112\073\377\203\026\377\016\334\314\141\212\220\156
\116\256\115\164
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\020\377\000\377\317\311\370\307\172\300\356\065\216\311\017\107
END
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\036\060\034\006\003\125\004\012\023\025\115\151\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\066\060\064\006\003\125\004\003\023\055\115\151\143\162\157\163
\157\146\164\040\122\123\101\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171\040\062\060\061\067
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\036\323\227\011\137\330\264\263\107\160\036\252\276\177
\105\263
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "e-Szigno Root CA 2017"
#
# Issuer: CN=e-Szigno Root CA 2017,OID.2.5.4.97=VATHU-23584497,O=Microsec Ltd.,L=Budapest,C=HU
# Serial Number:01:54:48:ef:21:fd:97:59:0d:f5:04:0a
# Subject: CN=e-Szigno Root CA 2017,OID.2.5.4.97=VATHU-23584497,O=Microsec
 Ltd.,L=Budapest,C=HU
# Not Valid Before: Tue Aug 22 12:07:06 2017
# Not Valid After : Fri Aug 22 12:07:06 2042
# Fingerprint (SHA-256):
```

BE:B0:0B:30:83:9B:9B:C3:2C:32:E4:44:79:05:95:06:41:F2:64:21:B1:5E:D0:89:19:8B:51:8A:E2:EA:1B:99
Fingerprint (SHA1): 89:D4:83:03:4F:9E:9A:48:80:5F:72:37:D4:A9:A6:EF:CB:7C:1F:D1
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "e-Szigno Root CA 2017"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\161\061\013\060\011\006\003\125\004\006\023\002\110\125\061
\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160\145
\163\164\061\026\060\024\006\003\125\004\012\014\015\115\151\143
\162\157\163\145\143\040\114\164\144\056\061\027\060\025\006\003
\125\004\141\014\016\126\101\124\110\125\055\062\063\065\070\064
\064\071\067\061\036\060\034\006\003\125\004\003\014\025\145\055
\123\172\151\147\156\157\040\122\157\157\164\040\103\101\040\062
\060\061\067
END
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\161\061\013\060\011\006\003\125\004\006\023\002\110\125\061
\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160\145
\163\164\061\026\060\024\006\003\125\004\012\014\015\115\151\143
\162\157\163\145\143\040\114\164\144\056\061\027\060\025\006\003
\125\004\141\014\016\126\101\124\110\125\055\062\063\065\070\064
\064\071\067\061\036\060\034\006\003\125\004\003\014\025\145\055
\123\172\151\147\156\157\040\122\157\157\164\040\103\101\040\062
\060\061\067
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\014\001\124\110\357\041\375\227\131\015\365\004\012
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\100\060\202\001\345\240\003\002\001\002\002\014\001
\124\110\357\041\375\227\131\015\365\004\012\060\012\006\010\052
\206\110\316\075\004\003\002\060\161\061\013\060\011\006\003\125
\004\006\023\002\110\125\061\021\060\017\006\003\125\004\007\014
\010\102\165\144\141\160\145\163\164\061\026\060\024\006\003\125
\004\012\014\015\115\151\143\162\157\163\145\143\040\114\164\144
\056\061\027\060\025\006\003\125\004\141\014\016\126\101\124\110
\125\055\062\063\065\070\064\064\071\067\061\036\060\034\006\003
\125\004\003\014\025\145\055\123\172\151\147\156\157\040\122\157
\157\164\040\103\101\040\062\060\061\067\060\036\027\015\061\067
\060\070\062\062\061\062\060\067\060\066\132\027\015\064\062\060
\070\062\062\061\062\060\067\060\066\132\060\161\061\013\060\011
\006\003\125\004\006\023\002\110\125\061\021\060\017\006\003\125
\004\007\014\010\102\165\144\141\160\145\163\164\061\026\060\024

\006\003\125\004\012\014\015\115\151\143\162\157\163\145\143\040
\114\164\144\056\061\027\060\025\006\003\125\004\141\014\016\126
\101\124\110\125\055\062\063\065\070\064\064\071\067\061\036\060
\034\006\003\125\004\003\014\025\145\055\123\172\151\147\156\157
\040\122\157\157\164\040\103\101\040\062\060\061\067\060\131\060
\023\006\007\052\206\110\316\075\002\001\006\010\052\206\110\316
\075\003\001\007\003\102\000\004\226\334\075\212\330\260\173\157
\306\047\276\104\220\261\263\126\025\173\216\103\044\175\032\204
\131\356\143\150\262\306\136\207\320\025\110\036\250\220\255\275
\123\242\332\336\072\220\246\140\137\150\062\265\206\101\337\207
\133\054\173\305\376\174\172\332\243\143\060\141\060\017\006\003
\125\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006
\003\125\035\017\001\001\377\004\004\003\002\001\006\060\035\006
\003\125\035\016\004\026\004\024\207\021\025\010\321\252\301\170
\014\261\257\316\306\311\220\357\277\060\004\300\060\037\006\003
\125\035\043\004\030\060\026\200\024\207\021\025\010\321\252\301
\170\014\261\257\316\306\311\220\357\277\060\004\300\060\012\006
\010\052\206\110\316\075\004\003\002\003\111\000\060\106\002\041
\000\265\127\335\327\212\125\013\066\341\206\104\372\324\331\150
\215\270\334\043\212\212\015\324\057\175\352\163\354\277\115\154
\250\002\041\000\313\245\264\022\372\347\265\350\317\176\223\374
\363\065\217\157\116\132\174\264\274\116\262\374\162\252\133\131
\371\347\334\061
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "e-Szigno Root CA 2017"
Issuer: CN=e-Szigno Root CA 2017,OID.2.5.4.97=VATHU-23584497,O=Microsec Ltd.,L=Budapest,C=HU
Serial Number:01:54:48:ef:21:fd:97:59:0d:f5:04:0a
Subject: CN=e-Szigno Root CA 2017,OID.2.5.4.97=VATHU-23584497,O=Microsec Ltd.,L=Budapest,C=HU
Not Valid Before: Tue Aug 22 12:07:06 2017
Not Valid After : Fri Aug 22 12:07:06 2042
Fingerprint (SHA-256):
BE:B0:0B:30:83:9B:9B:C3:2C:32:E4:44:79:05:95:06:41:F2:64:21:B1:5E:D0:89:19:8B:51:8A:E2:EA:1B:99
Fingerprint (SHA1): 89:D4:83:03:4F:9E:9A:48:80:5F:72:37:D4:A9:A6:EF:CB:7C:1F:D1
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "e-Szigno Root CA 2017"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\211\324\203\003\117\236\232\110\200\137\162\067\324\251\246\357
\313\174\037\321
END
CKA_CERT_MD5_HASH

```
 MULTILINE_OCTAL
\336\037\366\236\204\256\247\264\041\316\036\130\175\321\204\230
END
CKA_ISSUER MULTILINE_OCTAL
\060\161\061\013\060\011\006\003\125\004\006\023\002\110\125\061
\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160\145
\163\164\061\026\060\024\006\003\125\004\012\014\015\115\151\143
\162\157\163\145\143\040\114\164\144\056\061\027\060\025\006\003
\125\004\141\014\016\126\101\124\110\125\055\062\063\065\070\064
\064\071\067\061\036\060\034\006\003\125\004\003\014\025\145\055
\123\172\151\147\156\157\040\122\157\157\164\040\103\101\040\062
\060\061\067
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\014\001\124\110\357\041\375\227\131\015\365\004\012
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate
 "certSIGN Root CA G2"
#
# Issuer: OU=certSIGN ROOT CA G2,O=CERTSIGN SA,C=RO
# Serial Number:11:00:34:b6:4e:c6:36:2d:36
# Subject: OU=certSIGN ROOT CA G2,O=CERTSIGN SA,C=RO
# Not Valid Before: Mon Feb 06 09:27:35 2017
# Not Valid After : Thu Feb 06 09:27:35 2042
# Fingerprint (SHA-256):
65:7C:FE:2F:A7:3F:AA:38:46:25:71:F3:32:A2:36:3A:46:FC:E7:02:09:51:71:07:02:CD:FB:B6:EE:DA:33:05
# Fingerprint (SHA1): 26:F9:93:B4:ED:3D:28:27:B0:B9:4B:A7:E9:15:1D:A3:8D:92:E5:32
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "certSIGN Root CA G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\101\061\013\060\011\006\003\125\004\006\023\002\122\117\061
\024\060\022\006\003\125\004\012\023\013\103\105\122\124\123\111
\107\116\040\123\101\061\034\060\032\006\003\125\004\013\023\023
\143\145\162\164\123\111\107\116\040\122\117\117\124\040\103\101
\040\107\062
END
CKA_ID
```

UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\101\061\013\060\011\006\003\125\004\006\023\002\122\117\061
\024\060\022\006\003\125\004\012\023\013\103\105\122\124\123\111
\107\116\040\123\101\061\034\060\032\006\003\125\004\013\023\023
\143\145\162\164\123\111\107\116\040\122\117\117\124\040\103\101
\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\021\000\064\266\116\306\066\055\066
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\107\060\202\003\057\240\003\002\001\002\002\011\021
\000\064\266\116\306\066\055\066\060\015\006\011\052\206\110\206
\367\015\001\001\013\005\000\060\101\061\013\060\011\006\003\125
\004\006\023\002\122\117\061\024\060\022\006\003\125\004\012\023
\013\103\105\122\124\123\111\107\116\040\123\101\061\034\060\032
\006\003\125\004\013\023\023\143\145\162\164\123\111\107\116\040
\122\117\117\124\040\103\101\040\107\062\060\036\027\015\061\067
\060\062\060\066\060\071\062\067\063\065\132\027\015\064\062\060
\062\060\066\060\071\062\067\063\065\132\060\101\061\013\060\011
\006\003\125\004\006\023\002\122\117\061\024\060\022\006\003\125
\004\012\023\013\103\105\122\124\123\111\107\116\040\123\101\061
\034\060\032\006\003\125\004\013\023\023\143\145\162\164\123\111
\107\116\040\122\117\117\124\040\103\101\040\107\062\060\202\002
\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000
\003\202\002\017\000\060\202\002\012\002\202\002\001\000\300\305
\165\031\221\175\104\164\164\207\376\016\073\226\334\330\001\026
\314\356\143\221\347\013\157\316\073\012\151\032\174\302\343\257
\202\216\206\327\136\217\127\353\323\041\131\375\071\067\102\060
\276\120\352\266\017\251\210\330\056\055\151\041\347\321\067\030
\116\175\221\325\026\137\153\133\000\302\071\103\015\066\205\122
\271\123\145\017\035\102\345\217\317\005\323\356\334\014\032\331
\270\213\170\042\147\344\151\260\150\305\074\344\154\132\106\347
\315\307\372\357\304\354\113\275\152\244\254\375\314\050\121\357
\222\264\051\253\253\065\232\114\344\304\010\306\046\314\370\151
\237\344\234\360\051\323\134\371\306\026\045\236\043\303\040\301
\075\017\077\070\100\260\376\202\104\070\252\132\032\212\153\143
\130\070\264\025\323\266\021\151\173\036\124\356\214\032\042\254
\162\227\077\043\131\233\311\042\204\301\007\117\314\177\342\127
\312\022\160\273\246\145\363\151\165\143\275\225\373\033\227\315
\344\250\257\366\321\116\250\331\212\161\044\315\066\075\274\226
\304\361\154\251\256\345\317\015\156\050\015\260\016\265\312\121
\173\170\024\303\040\057\177\373\024\125\341\021\231\375\325\012
\241\236\002\343\142\137\353\065\113\054\270\162\350\076\075\117
\254\054\273\056\206\342\243\166\217\345\223\052\317\245\253\310
\134\215\113\006\377\022\106\254\170\313\024\007\065\340\251\337
\213\351\257\025\117\026\211\133\275\366\215\306\131\256\210\205

\016\301\211\353\037\147\305\105\216\377\155\067\066\053\170\146
\203\221\121\053\075\377\121\167\166\142\241\354\147\076\076\201
\203\340\126\251\120\037\037\172\231\253\143\277\204\027\167\361
\015\073\337\367\234\141\263\065\230\212\072\262\354\074\032\067
\077\176\217\222\317\331\022\024\144\332\020\002\025\101\377\117
\304\353\034\243\311\372\231\367\106\351\341\030\331\261\270\062
\055\313\024\014\120\330\203\145\203\356\271\134\317\313\005\132
\114\372\031\227\153\326\135\023\323\302\134\124\274\062\163\240
\170\365\361\155\036\313\237\245\246\237\042\334\321\121\236\202
\171\144\140\051\023\076\243\375\117\162\152\253\342\324\345\270
\044\125\054\104\113\212\210\104\234\312\204\323\052\073\002\003
\001\000\001\243\102\060\100\060\017\006\003\125\035\023\001\001
\377\004\005\060\003\001\001\377\060\016\006\003\125\035\017\001
\001\377\004\004\003\002\001\006\060\035\006\003\125\035\016\004
\026\004\024\202\041\055\146\306\327\240\340\025\353\316\114\011
\167\304\140\236\124\156\003\060\015\006\011\052\206\110\206\367
\015\001\001\013\005\000\003\202\002\001\000\140\336\032\270\347
\362\140\202\325\003\063\201\313\006\212\361\042\111\351\350\352
\221\177\306\063\136\150\031\003\206\073\103\001\317\007\160\344
\010\036\145\205\221\346\021\042\267\365\002\043\216\256\271\036
\175\037\176\154\346\275\045\325\225\032\362\005\246\257\205\002
\157\256\370\326\061\377\045\311\112\310\307\212\251\331\237\113
\111\233\021\127\231\222\103\021\336\266\063\244\314\327\215\144
\175\324\315\074\050\054\264\232\226\352\115\365\304\104\304\045
\252\040\200\330\051\125\367\340\101\374\006\046\377\271\066\365
\103\024\003\146\170\341\021\261\332\040\137\106\000\170\000\041
\245\036\000\050\141\170\157\250\001\001\217\235\064\232\377\364
\070\220\373\270\321\263\162\006\311\161\346\201\305\171\355\013
\246\171\362\023\013\234\367\135\016\173\044\223\264\110\333\206
\137\336\120\206\170\347\100\346\061\250\220\166\160\141\257\234
\067\054\021\265\202\267\252\256\044\064\133\162\014\151\015\315
\131\237\366\161\257\234\013\321\012\070\371\006\042\203\123\045
\014\374\121\304\346\276\342\071\225\013\044\255\257\321\225\344
\226\327\164\144\153\161\116\002\074\252\205\363\040\243\103\071
\166\133\154\120\376\232\234\024\036\145\024\212\025\275\243\202
\105\132\111\126\152\322\234\261\143\062\345\141\340\123\042\016
\247\012\111\352\313\176\037\250\342\142\200\366\020\105\122\230
\006\030\336\245\315\057\177\252\324\351\076\010\162\354\043\003
\002\074\246\252\330\274\147\164\075\024\027\373\124\113\027\343
\323\171\075\155\153\111\311\050\016\056\164\120\277\014\331\106
\072\020\206\311\247\077\351\240\354\177\353\245\167\130\151\161
\346\203\012\067\362\206\111\152\276\171\010\220\366\002\026\144
\076\345\332\114\176\014\064\311\371\137\266\263\050\121\247\247
\053\252\111\372\215\145\051\116\343\153\023\247\224\243\055\121
\155\170\014\104\313\337\336\010\157\316\243\144\253\323\225\204
\324\271\122\124\162\173\226\045\314\274\151\343\110\156\015\320
\307\235\047\232\252\370\023\222\335\036\337\143\237\065\251\026
\066\354\214\270\203\364\075\211\217\315\264\027\136\327\263\027

```
\101\020\135\047\163\140\205\127\111\042\007
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER
 CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "certSIGN Root CA G2"
# Issuer: OU=certSIGN ROOT CA G2,O=CERTSIGN SA,C=RO
# Serial Number:11:00:34:b6:4e:c6:36:2d:36
# Subject: OU=certSIGN ROOT CA G2,O=CERTSIGN SA,C=RO
# Not Valid Before: Mon Feb 06 09:27:35 2017
# Not Valid After : Thu Feb 06 09:27:35 2042
# Fingerprint (SHA-256):
65:7C:FE:2F:A7:3F:AA:38:46:25:71:F3:32:A2:36:3A:46:FC:E7:02:09:51:71:07:02:CD:FB:B6:EE:DA:33:05
# Fingerprint (SHA1): 26:F9:93:B4:ED:3D:28:27:B0:B9:4B:A7:E9:15:1D:A3:8D:92:E5:32
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "certSIGN Root CA G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\046\371\223\264\355\075\050\047\260\271\113\247\351\025\035\243
\215\222\345\062
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\214\361\165\212\306\031\317\224\267\367\145\040\207\303\227\307
END
CKA_ISSUER MULTILINE_OCTAL
\060\101\061\013\060\011\006\003\125\004\006\023\002\122\117\061
\024\060\022\006\003\125\004\012\023\013\103\105\122\124\123\111
\107\116\040\123\101\061\034\060\032\006\003\125\004\013\023\023
\143\145\162\164\123\111\107\116\040\122\117\117\124\040\103\101
\040\107\062
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\011\021\000\064\266\116\306\066\055\066
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Trustwave Global Certification Authority"
#
```

```
# Issuer: CN=Trustwave Global Certification Authority,O="Trustwave Holdings,
Inc.",L=Chicago,ST=Illinois,C=US
# Serial Number:05:f7:0e:86:da:49:f3:46:35:2e:ba:b2
# Subject: CN=Trustwave Global Certification Authority,O="Trustwave Holdings,
Inc.",L=Chicago,ST=Illinois,C=US
# Not Valid Before: Wed Aug 23 19:34:12 2017
# Not Valid After : Sat Aug 23 19:34:12 2042
# Fingerprint (SHA-256):
97:55:20:15:F5:DD:FC:3C:87:88:C0:06:94:45:55:40:88:94:45:00:84:F1:00:86:70:86:BC:1A:2B:B5:8D:C8
#
 Fingerprint (SHA1): 2F:8F:36:4F:E1:58:97:44:21:59:87:A5:2A:9A:D0:69:95:26:7F:B5
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Trustwave Global Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\021\060\017\006\003\125\004\010\014\010\111\154\154\151\156
\157\151\163\061\020\060\016\006\003\125\004\007\014\007\103\150
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\014\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\061\060\057\006\003\125\004
\003\014\050\124\162\165\163\164\167\141\166\145\040\107\154\157
\142\141\154\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\021\060\017\006\003\125\004\010\014\010\111\154\154\151\156
\157\151\163\061\020\060\016\006\003\125\004\007\014\007\103\150
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\014\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\061\060\057\006\003\125\004
\003\014\050\124\162\165\163\164\167\141\166\145\040\107\154\157
\142\141\154\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\014\005\367\016\206\332\111\363\106\065\056\272\262
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\332\060\202\003\302\240\003\002\001\002\002\014\005
\367\016\206\332\111\363\106\065\056\272\262\060\015\006\011\052
\206\110\206\367\015\001\001\013\005\000\060\201\210\061\013\060
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\011\006\003\125\004\006\023\002\125\123\061\021\060\017\006\003
\125\004\010\014\010\111\154\154\151\156\157\151\163\061\020\060
\016\006\003\125\004\007\014\007\103\150\151\143\141\147\157\061
\041\060\037\006\003\125\004\012\014\030\124\162\165\163\164\167
\141\166\145\040\110\157\154\144\151\156\147\163\054\040\111\156
\143\056\061\061\060\057\006\003\125\004\003\014\050\124\162\165
\163\164\167\141\166\145\040\107\154\157\142\141\154\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171\060\036\027\015\061\067\060\070\062\063\061
\071\063\064\061\062\132\027\015\064\062\060\070\062\063\061\071
\063\064\061\062\132\060\201\210\061\013\060\011\006\003\125\004
\006\023\002\125\123\061\021\060\017\006\003\125\004\010\014\010
\111\154\154\151\156\157\151\163\061\020\060\016\006\003\125\004
\007\014\007\103\150\151\143\141\147\157\061\041\060\037\006\003
\125\004\012\014\030\124\162\165\163\164\167\141\166\145\040\110
\157\154\144\151\156\147\163\054\040\111\156\143\056\061\061\060
\057\006\003\125\004\003\014\050\124\162\165\163\164\167\141\166
\145\040\107\154\157\142\141\154\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001
\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001
\000\271\135\121\050\113\074\067\222\321\202\316\275\035\275\315
\335\270\253\317\012\076\341\135\345\334\252\011\271\127\002\076
\346\143\141\337\362\017\202\143\256\243\367\254\163\321\174\347
\263\013\257\010\000\011\131\177\315\051\052\210\223\207\027\030
\200\355\210\262\264\266\020\037\055\326\137\125\242\023\135\321
\306\353\006\126\211\210\376\254\062\235\375\134\303\005\307\156
\356\206\211\272\210\003\235\162\041\206\220\256\217\003\245\334
\237\210\050\313\243\222\111\017\354\320\017\342\155\104\117\200
\152\262\324\347\240\012\123\001\272\216\227\221\166\156\274\374
\325\153\066\346\100\210\326\173\057\137\005\350\054\155\021\363
\347\262\276\222\104\114\322\227\244\376\322\162\201\103\007\234
\351\021\076\365\213\032\131\175\037\150\130\335\004\000\054\226
\363\103\263\176\230\031\164\331\234\163\331\030\276\101\307\064
\171\331\364\142\302\103\271\263\047\260\042\313\371\075\122\307
\060\107\263\311\076\270\152\342\347\350\201\160\136\102\213\117
\046\245\376\072\302\040\156\273\370\026\216\315\014\251\264\033
\154\166\020\341\130\171\106\076\124\316\200\250\127\011\067\051
\033\231\023\217\014\310\326\054\034\373\005\350\010\225\075\145
\106\334\356\315\151\342\115\217\207\050\116\064\013\076\317\024
\331\273\335\266\120\232\255\167\324\031\326\332\032\210\310\116
\033\047\165\330\262\010\361\256\203\060\271\021\016\315\207\360
\204\215\025\162\174\241\357\314\362\210\141\272\364\151\273\014
\214\013\165\127\004\270\116\052\024\056\075\017\034\036\062\246
\142\066\356\146\342\042\270\005\100\143\020\042\363\063\035\164
\162\212\054\365\071\051\240\323\347\033\200\204\055\305\075\343
\115\261\375\032\157\272\145\007\073\130\354\102\105\046\373\330
\332\045\162\304\366\000\261\042\171\275\343\174\131\142\112\234

\005\157\075\316\346\326\107\143\231\306\044\157\162\022\310\254
\177\220\264\013\221\160\350\267\346\026\020\161\027\316\336\006
\117\110\101\175\065\112\243\211\362\311\113\173\101\021\155\147
\267\010\230\114\345\021\031\256\102\200\334\373\220\005\324\370
\120\312\276\344\255\307\302\224\327\026\235\346\027\217\257\066
\373\002\003\001\000\001\243\102\060\100\060\017\006\003\125\035
\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125
\035\016\004\026\004\024\231\340\031\147\015\142\333\166\263\332
\075\270\133\350\375\102\322\061\016\207\060\016\006\003\125\035
\017\001\001\377\004\004\003\002\001\006\060\015\006\011\052\206
\110\206\367\015\001\001\013\005\000\003\202\002\001\000\230\163
\160\342\260\323\355\071\354\114\140\331\251\022\206\027\036\226
\320\350\124\050\073\144\055\041\246\370\235\126\023\152\110\075
\117\307\076\051\333\155\130\203\124\075\207\175\043\005\324\344
\034\334\350\070\145\206\305\165\247\132\333\065\005\275\167\336
\273\051\067\100\005\007\303\224\122\237\312\144\335\361\033\053
\334\106\012\020\002\061\375\112\150\015\007\144\220\346\036\365
\052\241\250\273\074\135\371\243\010\013\021\014\361\077\055\020
\224\157\376\342\064\207\203\326\317\345\033\065\155\322\003\341
\260\015\250\240\252\106\047\202\066\247\025\266\010\246\102\124
\127\266\231\132\342\013\171\220\327\127\022\121\065\031\210\101
\150\045\324\067\027\204\025\373\001\162\334\225\336\122\046\040
\230\046\342\166\365\047\157\372\000\073\112\141\331\015\313\121
\223\052\375\026\006\226\247\043\232\043\110\376\121\275\266\304
\260\261\124\316\336\154\101\255\026\147\176\333\375\070\315\271
\070\116\262\301\140\313\235\027\337\130\236\172\142\262\046\217
\164\225\233\344\133\035\322\017\335\230\034\233\131\271\043\323
\061\240\246\377\070\335\317\040\117\351\130\126\072\147\303\321
\366\231\231\235\272\066\266\200\057\210\107\117\206\277\104\072
\200\344\067\034\246\272\352\227\230\021\320\204\142\107\144\036
\252\356\100\277\064\261\234\217\116\341\362\222\117\037\216\363
\236\227\336\363\246\171\152\211\161\117\113\047\027\110\376\354
\364\120\017\117\111\175\314\105\343\275\172\100\305\101\334\141
\126\047\006\151\345\162\101\201\323\266\001\211\240\057\072\162
\171\376\072\060\277\101\354\307\142\076\221\113\307\331\061\166
\102\371\367\074\143\354\046\214\163\014\175\032\035\352\250\174
\207\250\302\047\174\341\063\101\017\317\317\374\000\240\042\200
\236\112\247\157\000\260\101\105\267\042\312\150\110\305\102\242
\256\335\035\362\340\156\116\005\130\261\300\220\026\052\244\075
\020\100\276\217\142\143\203\251\234\202\175\055\002\351\203\060
\174\313\047\311\375\036\146\000\260\056\323\041\057\216\063\026
\154\230\355\020\250\007\326\314\223\317\333\321\151\034\344\312
\311\340\266\234\351\316\161\161\336\154\077\026\244\171
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

```
# Trust for
 "Trustwave Global Certification Authority"
# Issuer: CN=Trustwave Global Certification Authority,O="Trustwave Holdings,
Inc.",L=Chicago,ST=Illinois,C=US
# Serial Number:05:f7:0e:86:da:49:f3:46:35:2e:ba:b2
# Subject: CN=Trustwave Global Certification Authority,O="Trustwave Holdings,
Inc.",L=Chicago,ST=Illinois,C=US
# Not Valid Before: Wed Aug 23 19:34:12 2017
# Not Valid After : Sat Aug 23 19:34:12 2042
# Fingerprint (SHA-256):
97:55:20:15:F5:DD:FC:3C:87:88:C0:06:94:45:55:40:88:94:45:00:84:F1:00:86:70:86:BC:1A:2B:B5:8D:C8
# Fingerprint (SHA1): 2F:8F:36:4F:E1:58:97:44:21:59:87:A5:2A:9A:D0:69:95:26:7F:B5
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Trustwave Global Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\057\217\066\117\341\130\227\104\041\131\207\245\052\232\320\151
\225\046\177\265
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\370\034\030\055\057\272\137\155\241\154\274\307\253\221\307\016
END
CKA_ISSUER
 MULTILINE_OCTAL
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\021\060\017\006\003\125\004\010\014\010\111\154\154\151\156
\157\151\163\061\020\060\016\006\003\125\004\007\014\007\103\150
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\014\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\061\060\057\006\003\125\004
\003\014\050\124\162\165\163\164\167\141\166\145\040\107\154\157
\142\141\154\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\014\005\367\016\206\332\111\363\106\065\056\272\262
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Trustwave Global ECC P256 Certification Authority"
#
```

```
#
 Issuer: CN=Trustwave Global ECC P256 Certification Authority,O="Trustwave Holdings,
Inc.",L=Chicago,ST=Illinois,C=US
# Serial Number:0d:6a:5f:08:3f:28:5c:3e:51:95:df:5d
# Subject: CN=Trustwave Global ECC P256 Certification Authority,O="Trustwave Holdings,
Inc.",L=Chicago,ST=Illinois,C=US
# Not Valid Before: Wed Aug 23 19:35:10 2017
# Not Valid After : Sat Aug 23 19:35:10 2042
# Fingerprint (SHA-256):
94:5B:BC:82:5E:A5:54:F4:89:D1:FD:51:A7:3D:DF:2E:A6:24:AC:70:19:A0:52:05:22:5C:22:A7:8C:CF:A8:B4
# Fingerprint (SHA1): B4:90:82:DD:45:0C:BE:8B:5B:B1:66:D3:E2:A4:08:26:CD:ED:42:CF
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Trustwave Global ECC P256 Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\221\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\021\060\017\006\003\125\004\010\023\010\111\154\154\151\156
\157\151\163\061\020\060\016\006\003\125\004\007\023\007\103\150
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\023\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\072\060\070\006\003\125\004
\003\023\061\124\162\165\163\164\167\141\166\145\040\107\154\157
\142\141\154\040\105\103\103\040\120\062\065\066\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\221\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\021\060\017\006\003\125\004\010\023\010\111\154\154\151\156
\157\151\163\061\020\060\016\006\003\125\004\007\023\007\103\150
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\023\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\072\060\070\006\003\125\004
\003\023\061\124\162\165\163\164\167\141\166\145\040\107\154\157
\142\141\154\040\105\103\103\040\120\062\065\066\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\014\015\152\137\010\077\050\134\076\121\225\337\135
END
CKA_VALUE MULTILINE_OCTAL
```

\060\202\002\140\060\202\002\007\240\003\002\001\002\002\014\015
\152\137\010\077\050\134\076\121\225\337\135\060\012\006\010\052
\206\110\316\075\004\003\002\060\201\221\061\013\060\011\006\003
\125\004\006\023\002\125\123\061\021\060\017\006\003\125\004\010
\023\010\111\154\154\151\156\157\151\163\061\020\060\016\006\003
\125\004\007\023\007\103\150\151\143\141\147\157\061\041\060\037
\006\003\125\004\012\023\030\124\162\165\163\164\167\141\166\145
\040\110\157\154\144\151\156\147\163\054\040\111\156\143\056\061
\072\060\070\006\003\125\004\003\023\061\124\162\165\163\164\167
\141\166\145\040\107\154\157\142\141\154\040\105\103\103\040\120
\062\065\066\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\060\036\027\015\061
\067\060\070\062\063\061\071\063\065\061\060\132\027\015\064\062
\060\070\062\063\061\071\063\065\061\060\132\060\201\221\061\013
\060\011\006\003\125\004\006\023\002\125\123\061\021\060\017\006
\003\125\004\010\023\010\111\154\154\151\156\157\151\163\061\020
\060\016\006\003\125\004\007\023\007\103\150\151\143\141\147\157
\061\041\060\037\006\003\125\004\012\023\030\124\162\165\163\164
\167\141\166\145\040\110\157\154\144\151\156\147\163\054\040\111
\156\143\056\061\072\060\070\006\003\125\004\003\023\061\124\162
\165\163\164\167\141\166\145\040\107\154\157\142\141\154\040\105
\103\103\040\120\062\065\066\040\103\145\162\164\151\146\151\143
\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\060
\131\060\023\006\007\052\206\110\316\075\002\001\006\010\052\206
\110\316\075\003\001\007\003\102\000\004\176\373\154\346\043\343
\163\062\010\312\140\346\123\234\272\164\215\030\260\170\220\122
\200\335\070\300\112\035\321\250\314\223\244\227\006\070\312\015
\025\142\306\216\001\052\145\235\252\337\064\221\056\201\301\344
\063\222\061\304\375\011\072\246\077\255\243\103\060\101\060\017
\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060
\017\006\003\125\035\017\001\001\377\004\005\003\003\007\006\000
\060\035\006\003\125\035\016\004\026\004\024\243\101\006\254\220
\155\321\112\353\165\245\112\020\231\263\261\241\213\112\367\060
\012\006\010\052\206\110\316\075\004\003\002\003\107\000\060\104
\002\040\007\346\124\332\016\240\132\262\256\021\237\207\305\266
\377\151\336\045\276\370\240\267\010\363\104\316\052\337\010\041
\014\067\002\040\055\046\003\240\005\275\153\321\366\134\370\145
\314\206\155\263\234\064\110\143\204\011\305\215\167\032\342\314
\234\341\164\173
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Trustwave Global ECC P256 Certification Authority"
Issuer: CN=Trustwave Global ECC P256 Certification Authority,O="Trustwave

```
 Holdings, Inc.",L=Chicago,ST=Illinois,C=US
# Serial Number:0d:6a:5f:08:3f:28:5c:3e:51:95:df:5d
# Subject: CN=Trustwave Global ECC P256 Certification Authority,O="Trustwave Holdings,
Inc.",L=Chicago,ST=Illinois,C=US
# Not Valid Before: Wed Aug 23 19:35:10 2017
# Not Valid After : Sat Aug 23 19:35:10 2042
# Fingerprint (SHA-256):
94:5B:BC:82:5E:A5:54:F4:89:D1:FD:51:A7:3D:DF:2E:A6:24:AC:70:19:A0:52:05:22:5C:22:A7:8C:CF:A8:B4
# Fingerprint (SHA1): B4:90:82:DD:45:0C:BE:8B:5B:B1:66:D3:E2:A4:08:26:CD:ED:42:CF
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Trustwave Global ECC P256 Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\264\220\202\335\105\014\276\213\133\261\146\323\342\244\010\046
\315\355\102\317
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\133\104\343\215\135\066\206\046\350\015\005\322\131\247\203\124
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\221\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\021\060\017\006\003\125\004\010\023\010\111\154\154\151\156
\157\151\163\061\020\060\016\006\003\125\004\007\023\007\103\150
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\023\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\072\060\070\006\003\125\004
\003\023\061\124\162\165\163\164\167\141\166\145\040\107\154\157
\142\141\154\040\105\103\103\040\120\062\065\066\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\014\015\152\137\010\077\050\134\076\121\225\337\135
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Trustwave Global ECC P384 Certification Authority"
#
# Issuer: CN=Trustwave Global ECC
 P384 Certification Authority,O="Trustwave Holdings, Inc.",L=Chicago,ST=Illinois,C=US
# Serial Number:08:bd:85:97:6c:99:27:a4:80:68:47:3b
```

```
# Subject: CN=Trustwave Global ECC P384 Certification Authority,O="Trustwave Holdings,
Inc.",L=Chicago,ST=Illinois,C=US
# Not Valid Before: Wed Aug 23 19:36:43 2017
# Not Valid After : Sat Aug 23 19:36:43 2042
# Fingerprint (SHA-256):
55:90:38:59:C8:C0:C3:EB:B8:75:9E:CE:4E:25:57:22:5F:F5:75:8B:BD:38:EB:D4:82:76:60:1E:1B:D5:80:97
# Fingerprint (SHA1): E7:F3:A3:C8:CF:6F:C3:04:2E:6D:0E:67:32:C5:9E:68:95:0D:5E:D2
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Trustwave Global ECC P384 Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\221\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\021\060\017\006\003\125\004\010\023\010\111\154\154\151\156
\157\151\163\061\020\060\016\006\003\125\004\007\023\007\103\150
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\023\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\072\060\070\006\003\125\004
\003\023\061\124\162\165\163\164\167\141\166\145\040\107\154\157
\142\141\154\040\105\103\103\040\120\063\070\064\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\221\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\021\060\017\006\003\125\004\010\023\010\111\154\154\151\156
\157\151\163\061\020\060\016\006\003\125\004\007\023\007\103\150
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\023\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\072\060\070\006\003\125\004
\003\023\061\124\162\165\163\164\167\141\166\145\040\107\154\157
\142\141\154\040\105\103\103\040\120\063\070\064\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\014\010\275\205\227\154\231\047\244\200\150\107\073
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\235\060\202\002\044\240\003\002\001\002\002\014\010
\275\205\227\154\231\047\244\200\150\107\073\060\012\006\010\052
\206\110\316\075\004\003\003\060\201\221\061\013\060\011\006\003
\125\004\006\023\002\125\123\061\021\060\017\006\003\125\004\010
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\023\010\111\154\154\151\156\157\151\163\061\020\060\016\006\003
\125\004\007\023\007\103\150\151\143\141\147\157\061\041\060\037
\006\003\125\004\012\023\030\124\162\165\163\164\167\141\166\145
\040\110\157\154\144\151\156\147\163\054\040\111\156\143\056\061
\072\060\070\006\003\125\004\003\023\061\124\162\165\163\164\167
\141\166\145\040\107\154\157\142\141\154\040\105\103\103\040\120
\063\070\064\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\060\036\027\015\061
\067\060\070\062\063\061\071\063\066\064\063\132\027\015\064\062
\060\070\062\063\061\071\063\066\064\063\132\060\201\221\061\013
\060\011\006\003\125\004\006\023\002\125\123\061\021\060\017\006
\003\125\004\010\023\010\111\154\154\151\156\157\151\163\061\020
\060\016\006\003\125\004\007\023\007\103\150\151\143\141\147\157
\061\041\060\037\006\003\125\004\012\023\030\124\162\165\163\164
\167\141\166\145\040\110\157\154\144\151\156\147\163\054\040\111
\156\143\056\061\072\060\070\006\003\125\004\003\023\061\124\162
\165\163\164\167\141\166\145\040\107\154\157\142\141\154\040\105
\103\103\040\120\063\070\064\040\103\145\162\164\151\146\151\143
\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\060
\166\060\020\006\007\052\206\110\316\075\002\001\006\005\053\201
\004\000\042\003\142\000\004\153\332\015\165\065\010\061\107\005
\256\105\231\125\361\021\023\056\112\370\020\061\043\243\176\203
\323\177\050\010\072\046\032\072\317\227\202\037\200\267\047\011
\217\321\216\060\304\012\233\016\254\130\004\253\367\066\175\224
\043\244\233\012\212\213\253\353\375\071\045\146\361\136\376\214
\256\215\101\171\235\011\140\316\050\251\323\212\155\363\326\105
\324\362\230\204\070\145\240\243\103\060\101\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\017\006\003
\125\035\017\001\001\377\004\005\003\003\007\006\000\060\035\006
\003\125\035\016\004\026\004\024\125\251\204\211\322\301\062\275
\030\313\154\246\007\116\310\347\235\276\202\220\060\012\006\010
\052\206\110\316\075\004\003\003\003\147\000\060\144\002\060\067
\001\222\227\105\022\176\240\363\076\255\031\072\162\335\364\120
\223\003\022\276\104\322\117\101\244\214\234\235\037\243\366\302
\222\347\110\024\376\116\233\245\221\127\256\306\067\162\273\002
\060\147\045\012\261\014\136\356\251\143\222\157\345\220\013\376
\146\042\312\107\375\212\061\367\203\376\172\277\020\276\030\053
\036\217\366\051\036\224\131\357\216\041\067\313\121\230\245\156
\113
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER
 CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Trustwave Global ECC P384 Certification Authority"
Issuer: CN=Trustwave Global ECC P384 Certification Authority,O="Trustwave Holdings,

```
Inc.",L=Chicago,ST=Illinois,C=US
# Serial Number:08:bd:85:97:6c:99:27:a4:80:68:47:3b
# Subject: CN=Trustwave Global ECC P384 Certification Authority,O="Trustwave Holdings,
Inc.",L=Chicago,ST=Illinois,C=US
# Not Valid Before: Wed Aug 23 19:36:43 2017
# Not Valid After : Sat Aug 23 19:36:43 2042
# Fingerprint (SHA-256):
55:90:38:59:C8:C0:C3:EB:B8:75:9E:CE:4E:25:57:22:5F:F5:75:8B:BD:38:EB:D4:82:76:60:1E:1B:D5:80:97
# Fingerprint (SHA1): E7:F3:A3:C8:CF:6F:C3:04:2E:6D:0E:67:32:C5:9E:68:95:0D:5E:D2
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Trustwave Global ECC P384 Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\347\363\243\310\317\157\303\004\056\155\016\147\062\305\236\150
\225\015\136\322
END
CKA_CERT_MD5_HASH
 MULTILINE_OCTAL
\352\317\140\304\073\271\025\051\100\241\227\355\170\047\223\326
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\221\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\021\060\017\006\003\125\004\010\023\010\111\154\154\151\156
\157\151\163\061\020\060\016\006\003\125\004\007\023\007\103\150
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\023\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\072\060\070\006\003\125\004
\003\023\061\124\162\165\163\164\167\141\166\145\040\107\154\157
\142\141\154\040\105\103\103\040\120\063\070\064\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\014\010\275\205\227\154\231\047\244\200\150\107\073
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING
 CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "NAVER Global Root Certification Authority"
#
# Issuer: CN=NAVER Global Root Certification Authority,O=NAVER BUSINESS PLATFORM Corp.,C=KR
# Serial Number:01:94:30:1e:a2:0b:dd:f5:c5:33:2a:b1:43:44:71:f8:d6:50:4d:0d
```

```
# Subject: CN=NAVER Global Root Certification Authority,O=NAVER BUSINESS PLATFORM Corp.,C=KR
# Not Valid Before: Fri Aug 18 08:58:42 2017
# Not Valid After : Tue Aug 18 23:59:59 2037
# Fingerprint (SHA-256):
88:F4:38:DC:F8:FF:D1:FA:8F:42:91:15:FF:E5:F8:2A:E1:E0:6E:0C:70:C3:75:FA:AD:71:7B:34:A4:9E:72:65
# Fingerprint (SHA1): 8F:6B:F2:A9:27:4A:DA:14:A0:C4:F4:8E:61:27:F9:C0:1E:78:5D:D1
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "NAVER Global Root Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\151\061\013\060\011\006\003\125\004\006\023\002\113\122\061
\046\060\044\006\003\125\004\012\014\035\116\101\126\105\122\040
\102\125\123\111\116\105\123\123\040\120\114\101\124\106\117\122
\115\040\103\157\162\160\056\061\062\060\060\006\003\125\004\003
\014\051\116\101\126\105\122\040\107\154\157\142\141\154\040\122
\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\151\061\013\060\011\006\003\125\004\006\023\002\113\122\061
\046\060\044\006\003\125\004\012\014\035\116\101\126\105\122\040
\102\125\123\111\116\105\123\123\040\120\114\101\124\106\117\122
\115\040\103\157\162\160\056\061\062\060\060\006\003\125\004\003
\014\051\116\101\126\105\122\040\107\154\157\142\141\154\040\122
\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\001\224\060\036\242\013\335\365\305\063\052\261\103\104
\161\370\326\120\115\015
END
CKA_VALUE
 MULTILINE_OCTAL
\060\202\005\242\060\202\003\212\240\003\002\001\002\002\024\001
\224\060\036\242\013\335\365\305\063\052\261\103\104\161\370\326
\120\115\015\060\015\006\011\052\206\110\206\367\015\001\001\014
\005\000\060\151\061\013\060\011\006\003\125\004\006\023\002\113
\122\061\046\060\044\006\003\125\004\012\014\035\116\101\126\105
\122\040\102\125\123\111\116\105\123\123\040\120\114\101\124\106
\117\122\115\040\103\157\162\160\056\061\062\060\060\006\003\125
\004\003\014\051\116\101\126\105\122\040\107\154\157\142\141\154
\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\060\036\027
```

\015\061\067\060\070\061\070\060\070\065\070\064\062\132\027\015
\063\067\060\070\061\070\062\063\065\071\065\071\132\060\151\061
\013\060\011\006\003\125\004\006\023\002\113\122\061\046\060\044
\006\003\125\004\012\014\035\116\101\126\105\122\040\102\125\123
\111\116\105\123\123\040\120\114\101\124\106\117\122\115\040\103
\157\162\160\056\061\062\060\060\006\003\125\004\003\014\051\116
\101\126\105\122\040\107\154\157\142\141\154\040\122\157\157\164
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\060\202\002\042\060\015\006\011
\052\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000
\060\202\002\012\002\202\002\001\000\266\324\361\223\134\265\100
\211\012\253\015\220\133\120\143\256\220\224\164\027\105\162\326
\173\145\132\051\113\247\126\240\113\270\057\102\165\351\331\173
\044\132\061\145\253\027\027\321\063\072\331\021\334\100\066\207
\337\307\152\351\046\136\131\212\167\343\350\110\234\061\026\372
\076\221\261\312\311\243\342\237\316\041\123\243\002\066\060\313
\122\002\345\332\062\135\303\305\346\371\356\021\307\213\311\104
\036\204\223\030\112\264\237\345\022\144\151\320\046\205\142\001
\266\311\002\035\276\203\121\273\134\332\370\255\025\152\231\367
\222\124\367\064\133\351\277\352\051\201\022\324\123\221\226\263
\221\132\335\376\220\163\050\373\060\106\265\312\010\007\307\161
\162\311\146\323\064\227\366\214\364\030\112\341\320\075\132\105
\266\151\247\051\373\043\316\210\330\022\234\000\110\250\246\017
\263\073\222\215\161\016\164\305\213\310\114\371\364\233\216\270
\074\151\355\157\073\120\057\130\355\304\260\320\034\033\152\014
\342\274\104\252\330\315\024\135\224\170\141\277\016\156\332\052
\274\057\014\013\161\246\263\026\077\234\346\371\314\237\123\065
\342\003\240\240\030\277\273\361\276\364\326\214\207\015\102\367
\006\271\361\155\355\004\224\250\376\266\323\006\306\100\141\337
\235\235\363\124\166\316\123\072\001\246\222\101\354\004\243\217
\015\242\325\011\312\326\313\232\361\357\103\135\300\253\245\101
\317\134\123\160\160\311\210\246\055\324\153\141\163\120\046\206
\141\016\137\033\302\053\342\214\325\273\235\301\003\102\272\224
\332\137\251\260\312\314\115\012\357\107\151\003\057\042\373\361
\050\316\277\135\120\145\250\220\155\263\164\260\010\307\254\250
\321\353\076\234\374\135\032\203\056\053\313\265\363\104\235\072
\247\027\141\226\242\161\323\160\226\025\115\267\114\163\356\031
\134\305\133\076\101\376\254\165\140\073\033\143\316\000\335\332
\010\220\142\264\345\055\356\110\247\153\027\231\124\276\207\112
\343\251\136\004\114\353\020\155\124\326\357\361\350\362\142\026
\313\200\153\355\075\355\365\037\060\245\256\113\311\023\355\212
\001\001\311\270\121\130\300\146\072\261\146\113\304\325\061\002
\142\351\164\204\014\333\115\106\055\002\003\001\000\001\243\102
\060\100\060\035\006\003\125\035\016\004\026\004\024\322\237\210
\337\241\315\054\275\354\365\073\001\001\223\063\047\262\353\140
\113\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001
\006\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001
\001\377\060\015\006\011\052\206\110\206\367\015\001\001\014\005

\000\003\202\002\001\000\062\312\200\263\235\075\124\006\335\322
\322\056\360\244\001\041\013\147\110\312\155\216\340\310\252\015
\252\215\041\127\217\306\076\172\312\333\121\324\122\263\324\226
\204\245\130\140\177\345\013\216\037\365\334\012\025\201\345\073
\266\267\042\057\011\234\023\026\261\154\014\065\010\155\253\143
\162\355\334\276\354\307\127\346\060\040\161\326\327\020\301\023
\125\001\214\052\103\344\101\361\317\072\172\123\222\316\242\003
\005\015\070\337\002\273\020\056\331\073\322\233\172\300\241\246
\370\265\061\346\364\165\311\271\123\231\165\107\042\132\024\025
\307\170\033\266\235\351\014\370\033\166\361\205\204\336\241\332
\022\357\244\342\020\227\172\170\336\014\121\227\250\041\100\213
\206\275\015\360\136\116\113\066\273\073\040\037\212\102\126\341
\013\032\277\173\320\042\103\054\104\214\373\345\052\264\154\034
\034\272\224\340\023\176\041\346\232\302\313\305\102\144\264\036
\224\173\010\045\310\161\314\207\105\127\205\323\237\051\142\042
\203\121\227\000\030\227\167\152\230\222\311\174\140\154\337\154
\175\112\344\160\114\302\236\270\035\367\320\064\307\017\314\373
\247\377\003\276\255\160\220\332\013\335\310\155\227\137\232\177
\011\062\101\375\315\242\314\132\155\114\362\252\111\376\146\370
\351\330\065\353\016\050\036\356\110\057\072\320\171\011\070\174
\246\042\202\223\225\320\003\276\276\002\240\005\335\040\042\343
\157\035\210\064\140\306\346\012\271\011\165\013\360\007\350\151
\226\065\307\373\043\201\216\070\071\270\105\053\103\170\242\321
\054\024\377\015\050\162\162\225\233\136\011\333\211\104\230\252
\241\111\273\161\122\362\277\366\377\047\241\066\257\270\266\167
\210\335\072\244\155\233\064\220\334\024\135\060\277\267\353\027
\344\207\267\161\320\241\327\167\025\324\102\327\362\363\061\231
\135\233\335\026\155\077\352\006\043\370\106\242\042\355\223\366
\335\232\346\052\207\261\230\124\361\042\367\153\105\343\342\216
\166\035\232\215\304\006\215\066\267\024\363\235\124\151\267\216
\074\325\244\155\223\201\267\255\366\275\144\173\302\311\150\071
\240\222\234\315\064\206\221\220\372\144\121\235\376\376\353\245
\365\165\336\211\367\162
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER
 CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "NAVER Global Root Certification Authority"
Issuer: CN=NAVER Global Root Certification Authority,O=NAVER BUSINESS PLATFORM Corp.,C=KR
Serial Number:01:94:30:1e:a2:0b:dd:f5:c5:33:2a:b1:43:44:71:f8:d6:50:4d:0d
Subject: CN=NAVER Global Root Certification Authority,O=NAVER BUSINESS PLATFORM Corp.,C=KR
Not Valid Before: Fri Aug 18 08:58:42 2017
Not Valid After : Tue Aug 18 23:59:59 2037
Fingerprint (SHA-256):
88:F4:38:DC:F8:FF:D1:FA:8F:42:91:15:FF:E5:F8:2A:E1:E0:6E:0C:70:C3:75:FA:AD:71:7B:34:A4:9E:72:65

```
# Fingerprint (SHA1): 8F:6B:F2:A9:27:4A:DA:14:A0:C4:F4:8E:61:27:F9:C0:1E:78:5D:D1
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "NAVER Global Root Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\217\153\362\251\047\112\332\024\240\304\364\216\141\047\371\300
\036\170\135\321
END
CKA_CERT_MD5_HASH
 MULTILINE_OCTAL
\310\176\101\366\045\073\365\011\263\027\350\106\075\277\320\233
END
CKA_ISSUER MULTILINE_OCTAL
\060\151\061\013\060\011\006\003\125\004\006\023\002\113\122\061
\046\060\044\006\003\125\004\012\014\035\116\101\126\105\122\040
\102\125\123\111\116\105\123\123\040\120\114\101\124\106\117\122
\115\040\103\157\162\160\056\061\062\060\060\006\003\125\004\003
\014\051\116\101\126\105\122\040\107\154\157\142\141\154\040\122
\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\001\224\060\036\242\013\335\365\305\063\052\261\103\104
\161\370\326\120\115\015
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "AC RAIZ FNMT-RCM SERVIDORES SEGUROS"
#
# Issuer: CN=AC RAIZ FNMT-RCM
 SERVIDORES SEGUROS,OID.2.5.4.97=VATES-Q2826004J,OU=Ceres,O=FNMT-RCM,C=ES
# Serial Number:62:f6:32:6c:e5:c4:e3:68:5c:1b:62:dd:9c:2e:9d:95
# Subject: CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS,OID.2.5.4.97=VATES-
Q2826004J,OU=Ceres,O=FNMT-RCM,C=ES
# Not Valid Before: Thu Dec 20 09:37:33 2018
# Not Valid After : Sun Dec 20 09:37:33 2043
# Fingerprint (SHA-256):
55:41:53:B1:3D:2C:F9:DD:B7:53:BF:BE:1A:4E:0A:E0:8D:0A:A4:18:70:58:FE:60:A2:B8:62:B2:E4:B8:7B:CB
# Fingerprint (SHA1): 62:FF:D9:9E:C0:65:0D:03:CE:75:93:D2:ED:3F:2D:32:C9:E3:E5:4A
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
```

CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AC RAIZ FNMT-RCM SERVIDORES SEGUROS"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\170\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\021\060\017\006\003\125\004\012\014\010\106\116\115\124\055\122
\103\115\061\016\060\014\006\003\125\004\013\014\005\103\145\162
\145\163\061\030\060\026\006\003\125\004\141\014\017\126\101\124
\105\123\055\121\062\070\062\066\060\060\064\112\061\054\060\052
\006\003\125\004\003\014\043\101\103\040\122\101\111\132\040\106
\116\115\124\055\122\103\115\040\123\105\122\126\111\104\117\122
\105\123\040\123\105\107\125\122\117\123
END
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\170\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\021\060\017\006\003\125\004\012\014\010\106\116\115\124\055\122
\103\115\061\016\060\014\006\003\125\004\013\014\005\103\145\162
\145\163\061\030\060\026\006\003\125\004\141\014\017\126\101\124
\105\123\055\121\062\070\062\066\060\060\064\112\061\054\060\052
\006\003\125\004\003\014\043\101\103\040\122\101\111\132\040\106
\116\115\124\055\122\103\115\040\123\105\122\126\111\104\117\122
\105\123\040\123\105\107\125\122\117\123
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\142\366\062\154\345\304\343\150\134\033\142\335\234\056
\235\225
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\156\060\202\001\363\240\003\002\001\002\002\020\142
\366\062\154\345\304\343\150\134\033\142\335\234\056\235\225\060
\012\006\010\052\206\110\316\075\004\003\003\060\170\061\013\060
\011\006\003\125\004\006\023\002\105\123\061\021\060\017\006\003
\125\004\012\014\010\106\116\115\124\055\122\103\115\061\016\060
\014\006\003\125\004\013\014\005\103\145\162\145\163\061\030\060
\026\006\003\125\004\141\014\017\126\101\124\105\123\055\121\062
\070\062\066\060\060\064\112\061\054\060\052\006\003\125\004\003
\014\043\101\103\040\122\101\111\132\040\106\116\115\124\055\122
\103\115\040\123\105\122\126\111\104\117\122\105\123\040\123\105
\107\125\122\117\123\060\036\027\015\061\070\061\062\062\060\060
\071\063\067\063\063\132\027\015\064\063\061\062\062\060\060\071
\063\067\063\063\132\060\170\061\013\060\011\006\003\125\004\006
\023\002\105\123\061\021\060\017\006\003\125\004\012\014\010\106
\116\115\124\055\122\103\115\061\016\060\014\006\003\125\004\013
\014\005\103\145\162\145\163\061\030\060\026\006\003\125\004\141
\014\017\126\101\124\105\123\055\121\062\070\062\066\060\060\064
\112\061\054\060\052\006\003\125\004\003\014\043\101\103\040\122

\101\111\132\040\106\116\115\124\055\122\103\115\040\123\105\122
\126\111\104\117\122\105\123\040\123\105\107\125\122\117\123\060
\166\060\020\006\007\052\206\110\316\075\002\001\006\005\053\201
\004\000\042\003\142\000\004\366\272\127\123\310\312\253\337\066
\112\122\041\344\227\322\203\147\236\360\145\121\320\136\207\307
\107\261\131\362\127\107\233\000\002\223\104\027\151\333\102\307
\261\262\072\030\016\264\135\214\263\146\135\241\064\371\066\054
\111\333\363\106\374\263\104\151\104\023\146\375\327\305\375\257
\066\115\316\003\115\007\161\317\257\152\005\322\242\103\132\012
\122\157\001\003\116\216\213\243\102\060\100\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006\003
\125\035\017\001\001\377\004\004\003\002\001\006\060\035\006\003
\125\035\016\004\026\004\024\001\271\057\357\277\021\206\140\362
\117\320\101\156\253\163\037\347\322\156\111\060\012\006\010\052
\206\110\316\075\004\003\003\003\151\000\060\146\002\061\000\256
\112\343\053\100\303\164\021\362\225\255\026\043\336\116\014\032
\346\135\245\044\136\153\104\173\374\070\342\117\313\234\105\027
\021\114\024\047\046\125\071\165\112\003\314\023\220\237\222\002
\061\000\372\112\154\140\210\163\363\356\270\230\142\251\316\053
\302\331\212\246\160\061\035\257\260\224\114\353\117\306\343\321
\363\142\247\074\377\223\056\007\134\111\001\147\151\022\002\162
\277\347
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "AC RAIZ FNMT-RCM SERVIDORES SEGUROS"
Issuer: CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS,OID.2.5.4.97=VATES-Q2826004J,OU=Ceres,O=FNMT-RCM,C=ES
Serial Number:62:f6:32:6c:e5:c4:e3:68:5c:1b:62:dd:9c:2e:9d:95
Subject: CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS,OID.2.5.4.97=VATES-Q2826004J,OU=Ceres,O=FNMT-RCM,C=ES
Not
Valid Before: Thu Dec 20 09:37:33 2018
Not Valid After : Sun Dec 20 09:37:33 2043
Fingerprint (SHA-256):
55:41:53:B1:3D:2C:F9:DD:B7:53:BF:BE:1A:4E:0A:E0:8D:0A:A4:18:70:58:FE:60:A2:B8:62:B2:E4:B8:7B:CB
Fingerprint (SHA1): 62:FF:D9:9E:C0:65:0D:03:CE:75:93:D2:ED:3F:2D:32:C9:E3:E5:4A
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AC RAIZ FNMT-RCM SERVIDORES SEGUROS"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\142\377\331\236\300\145\015\003\316\165\223\322\355\077\055\062
\311\343\345\112

```
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\031\066\234\122\003\057\322\321\273\043\314\335\036\022\125\273
END
CKA_ISSUER MULTILINE_OCTAL
\060\170\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\021\060\017\006\003\125\004\012\014\010\106\116\115\124\055\122
\103\115\061\016\060\014\006\003\125\004\013\014\005\103\145\162
\145\163\061\030\060\026\006\003\125\004\141\014\017\126\101\124
\105\123\055\121\062\070\062\066\060\060\064\112\061\054\060\052
\006\003\125\004\003\014\043\101\103\040\122\101\111\132\040\106
\116\115\124\055\122\103\115\040\123\105\122\126\111\104\117\122
\105\123\040\123\105\107\125\122\117\123
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\142\366\062\154\345\304\343\150\134\033\142\335\234\056
\235\225
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "GlobalSign Secure Mail Root R45"
#
# Issuer: CN=GlobalSign Secure Mail Root R45,O=GlobalSign nv-sa,C=BE
# Serial Number:76:53:fe:a8:4c:50:ab:9f:8d:32:b5:1d:03:8f:57:dc
# Subject: CN=GlobalSign Secure Mail Root R45,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 18 00:00:00 2020
# Not Valid After : Sat Mar 18 00:00:00 2045
# Fingerprint (SHA-256):
31:9A:F0:A7:72:9E:6F:89:26:9C:13:1E:A6:A3:A1:6F:CD:86:38:9F:DC:AB:3C:47:A4:A6:75:C1:61:A3:F9:74
#
 Fingerprint (SHA1): 76:18:D1:F3:80:24:3D:52:40:C6:11:6A:AD:57:77:09:7D:81:30:A0
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Secure Mail Root R45"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\122\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\050\060\046\006\003
\125\004\003\023\037\107\154\157\142\141\154\123\151\147\156\040
\123\145\143\165\162\145\040\115\141\151\154\040\122\157\157\164
```

\040\122\064\065
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\122\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\050\060\046\006\003
\125\004\003\023\037\107\154\157\142\141\154\123\151\147\156\040
\123\145\143\165\162\145\040\115\141\151\154\040\122\157\157\164
\040\122\064\065
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\166\123\376\250\114\120\253\237\215\062\265\035\003\217
\127\334
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\160\060\202\003\130\240\003\002\001\002\002\020\166
\123\376\250\114\120\253\237\215\062\265\035\003\217\127\334\060
\015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\122
\061\013\060\011\006\003\125\004\006\023\002\102\105\061\031\060
\027\006\003\125\004\012\023\020\107\154\157\142\141\154\123\151
\147\156\040\156\166\055\163\141\061\050\060\046\006\003\125\004
\003\023\037\107\154\157\142\141\154\123\151\147\156\040\123\145
\143\165\162\145\040\115\141\151\154\040\122\157\157\164\040\122
\064\065\060\036\027\015\062\060\060\063\061\070\060\060\060\060
\060\060\132\027\015\064\065\060\063\061\070\060\060\060\060\060
\060\132\060\122\061\013\060\011\006\003\125\004\006\023\002\102
\105\061\031\060\027\006\003\125\004\012\023\020\107\154\157\142
\141\154\123\151\147\156\040\156\166\055\163\141\061\050\060\046
\006\003\125\004\003\023\037\107\154\157\142\141\154\123\151\147
\156\040\123\145\143\165\162\145\040\115\141\151\154\040\122\157
\157\164\040\122\064\065\060\202\002\042\060\015\006\011\052\206
\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202
\002\012\002\202\002\001\000\334\171\314\155\006\371\155\273\340
\126\004\154\177\340\165\314\055\005\111\350\113\334\124\354\133
\167\225\162\277\177\142\235\205\251\212\044\120\137\123\345\333
\164\157\244\051\133\023\052\011\255\232\305\057\302\367\166\073
\241\105\106\252\103\346\044\376\053\260\157\062\160\031\106\132
\171\046\057\374\075\175\137\144\313\127\314\141\141\250\331\225
\156\343\225\240\156\177\107\022\030\326\357\003\311\373\212\372
\232\275\202\025\251\125\167\113\021\117\131\340\153\303\161\363
\014\330\124\325\201\150\076\023\271\025\056\207\212\074\104\047
\066\142\044\156\370\054\005\162\060\141\275\102\221\043\304\235
\045\247\331\124\232\024\243\061\255\200\171\014\247\143\154\230
\243\254\127\107\063\037\145\226\341\320\322\065\332\371\161\367
\241\246\045\265\101\135\337\076\140\330\321\366\237\245\362\270
\314\023\252\217\371\262\156\341\203\055\223\335\076\205\032\335

\350\261\134\046\001\313\111\205\374\374\322\324\177\205\142\206
\164\371\313\354\065\042\242\014\060\217\073\253\171\353\126\362
\372\102\363\355\371\037\105\211\100\051\255\352\222\164\352\122
\375\126\264\053\332\242\355\165\302\156\253\316\122\220\113\366
\336\360\111\217\232\110\324\210\031\155\105\346\314\214\271\335
\144\140\140\002\100\370\271\317\274\130\353\075\205\271\306\012
\323\234\007\146\217\307\030\071\043\106\341\074\036\243\057\120
\141\222\013\075\053\154\361\243\107\070\127\221\253\015\217\306
\235\115\004\322\046\122\134\345\245\375\052\055\026\052\001\151
\347\251\175\341\066\267\261\052\305\331\261\215\275\271\213\316
\314\213\241\076\013\110\315\120\225\064\304\330\010\131\330\153
\046\364\276\365\324\042\027\000\127\311\256\233\004\060\063\237
\013\373\337\126\242\311\156\124\166\332\261\227\142\047\131\017
\021\212\042\033\144\226\077\250\361\267\044\112\215\074\123\174
\155\203\166\075\262\046\110\163\365\104\026\001\055\011\052\216
\026\226\120\320\163\006\135\273\042\110\202\114\012\106\132\077
\200\377\134\362\362\232\254\054\010\340\326\352\360\022\070\201
\117\246\020\355\106\253\314\026\234\013\317\144\246\231\002\205
\104\147\106\255\375\115\347\002\003\001\000\001\243\102\060\100
\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\206
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001
\377\060\035\006\003\125\035\016\004\026\004\024\240\223\025\050
\156\356\217\010\262\065\306\236\142\171\164\247\261\016\053\173
\060\015\006\011\052\206\110\206\367\015\001\001\014\005\000\003
\202\002\001\000\105\012\370\321\134\254\142\201\320\004\327\266
\377\127\121\211\013\014\313\336\044\145\067\373\253\236\355\146
\364\352\014\031\151\211\270\031\261\060\126\264\331\366\367\276
\306\256\227\313\105\366\021\214\072\060\144\114\301\237\131\300
\106\102\010\006\107\144\027\170\340\225\007\006\326\214\242\254
\251\331\077\323\173\126\117\374\304\207\050\337\266\053\026\043
\300\237\037\133\343\326\104\136\042\117\043\004\214\065\026\265
\171\007\206\134\057\227\342\366\010\144\246\334\333\250\212\343
\244\173\167\015\321\051\223\050\040\264\123\243\113\116\137\336
\301\366\165\043\374\037\074\170\117\160\061\170\057\242\065\124
\161\004\254\310\304\155\303\366\221\261\376\315\356\104\156\201
\366\100\305\076\052\001\277\253\114\261\003\077\015\021\344\017
\322\044\343\042\210\233\237\137\107\075\121\111\340\011\067\176
\027\041\061\166\267\147\161\110\050\113\045\327\020\350\237\141
\131\026\305\076\062\116\037\014\316\243\314\017\344\307\021\007
\042\057\070\010\335\133\227\353\102\154\131\232\232\356\172\320
\235\337\305\333\011\103\056\012\252\031\075\153\350\152\060\172
\127\346\277\263\152\071\251\217\343\361\117\145\150\266\275\237
\050\217\241\026\132\011\120\072\062\056\035\057\104\021\102\246
\000\346\061\230\377\055\241\017\346\244\140\126\317\171\327\262
\116\327\260\372\156\014\127\043\307\316\037\245\261\114\155\031
\111\236\016\177\160\217\161\077\130\050\237\165\335\141\340\072
\267\071\266\356\227\324\065\121\373\213\111\140\310\074\146\256
\227\356\215\046\131\127\273\170\360\172\120\060\011\260\140\252

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\237\116\334\311\076\036\072\334\142\223\063\260\072\124\164\157
\054\061\105\321\153\021\062\152\150\166\366\075\366\152\023\136
\044\230\347\352\035\232\317\170\202\007\140\367\115\020\323\201
\232\105\215\236\257\233\334\200\307\103\262\225\150\244\303\016
\350\012\107\025\277\124\063\334\001\347\325\246\036\163\330\172
\262\277\057\255\343\125\060\236\337\016\101\274\340\021\365\241
\014\250\042\341\343\000\243\116\160\174\222\343\004\321\172\102
\212\165\220\131\343\233\321\114\242\144\275\163\171\233\157\362
\263\301\366\074
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER
 CK_BBOOL CK_FALSE

# Trust for "GlobalSign Secure Mail Root R45"
# Issuer: CN=GlobalSign Secure Mail Root R45,O=GlobalSign nv-sa,C=BE
# Serial Number:76:53:fe:a8:4c:50:ab:9f:8d:32:b5:1d:03:8f:57:dc
# Subject: CN=GlobalSign Secure Mail Root R45,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 18 00:00:00 2020
# Not Valid After : Sat Mar 18 00:00:00 2045
# Fingerprint (SHA-256):
31:9A:F0:A7:72:9E:6F:89:26:9C:13:1E:A6:A3:A1:6F:CD:86:38:9F:DC:AB:3C:47:A4:A6:75:C1:61:A3:F9:74
# Fingerprint (SHA1): 76:18:D1:F3:80:24:3D:52:40:C6:11:6A:AD:57:77:09:7D:81:30:A0
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Secure Mail Root R45"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\166\030\321\363\200\044\075\122\100\306\021\152\255\127\167\011
\175\201\060\240
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\223\304\173\263\016\124\107\034\103\054\213\276\160\205\142\051
END
CKA_ISSUER
 MULTILINE_OCTAL
\060\122\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\050\060\046\006\003
\125\004\003\023\037\107\154\157\142\141\154\123\151\147\156\040
\123\145\143\165\162\145\040\115\141\151\154\040\122\157\157\164
\040\122\064\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\166\123\376\250\114\120\253\237\215\062\265\035\003\217
```

\127\334
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "GlobalSign Secure Mail Root E45"
#
Issuer: CN=GlobalSign Secure Mail Root E45,O=GlobalSign nv-sa,C=BE
Serial Number:76:53:fe:aa:27:1d:95:46:5d:d6:f1:9e:e5:b8:90:0a
Subject: CN=GlobalSign Secure Mail Root E45,O=GlobalSign nv-sa,C=BE
Not Valid Before: Wed Mar 18 00:00:00
 2020
Not Valid After : Sat Mar 18 00:00:00 2045
Fingerprint (SHA-256):
5C:BF:6F:B8:1F:D4:17:EA:41:28:CD:6F:81:72:A3:C9:40:20:94:F7:4A:B2:ED:3A:06:B4:40:5D:04:F3:0B:19
Fingerprint (SHA1): 18:2E:1F:32:4F:89:DF:BE:FE:88:89:F0:93:C2:C4:A0:2B:67:75:21
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Secure Mail Root E45"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\122\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\050\060\046\006\003
\125\004\003\023\037\107\154\157\142\141\154\123\151\147\156\040
\123\145\143\165\162\145\040\115\141\151\154\040\122\157\157\164
\040\105\064\065
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\122\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\050\060\046\006\003
\125\004\003\023\037\107\154\157\142\141\154\123\151\147\156\040
\123\145\143\165\162\145\040\115\141\151\154\040\122\157\157\164
\040\105\064\065
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\166\123\376\252\047\035\225\106\135\326\361\236\345\270
\220\012
END
CKA_VALUE MULTILINE_OCTAL

\060\202\002\041\060\202\001\247\240\003\002\001\002\002\020\166
\123\376\252\047\035\225\106\135\326\361\236\345\270\220\012\060
\012\006\010\052\206\110\316\075\004\003\003\060\122\061\013\060
\011\006\003\125\004\006\023\002\102\105\061\031\060\027\006\003
\125\004\012\023\020\107\154\157\142\141\154\123\151\147\156\040
\156\166\055\163\141\061\050\060\046\006\003\125\004\003\023\037
\107\154\157\142\141\154\123\151\147\156\040\123\145\143\165\162
\145\040\115\141\151\154\040\122\157\157\164\040\105\064\065\060
\036\027\015\062\060\060\063\061\070\060\060\060\060\060\060\132
\027\015\064\065\060\063\061\070\060\060\060\060\060\060\132\060
\122\061\013\060\011\006\003\125\004\006\023\002\102\105\061\031
\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154\123
\151\147\156\040\156\166\055\163\141\061\050\060\046\006\003\125
\004\003\023\037\107\154\157\142\141\154\123\151\147\156\040\123
\145\143\165\162\145\040\115\141\151\154\040\122\157\157\164\040
\105\064\065\060\166\060\020\006\007\052\206\110\316\075\002\001
\006\005\053\201\004\000\042\003\142\000\004\371\171\213\201\107
\067\211\226\077\105\111\120\177\032\046\013\223\062\176\056\300
\300\247\010\232\303\156\217\233\076\013\042\354\067\123\267\157
\212\260\274\047\067\113\155\251\106\073\331\037\377\245\241\104
\273\055\163\277\236\101\007\134\123\233\121\010\072\132\273\157
\070\307\026\221\170\302\112\023\151\035\202\337\132\057\000\210
\226\242\056\034\164\371\235\176\146\067\212\243\102\060\100\060
\016\006\003\125\035\017\001\001\377\004\004\003\002\001\206\060
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377
\060\035\006\003\125\035\016\004\026\004\024\337\023\136\213\137
\302\100\002\375\126\267\224\114\266\036\325\246\261\024\226\060
\012\006\010\052\206\110\316\075\004\003\003\003\150\000\060\145
\002\060\023\260\276\327\161\040\076\344\253\234\316\066\022\175
\137\114\037\052\265\151\105\063\137\323\055\132\262\344\210\307
\336\012\066\102\062\171\235\246\153\272\341\371\104\052\173\212
\303\022\002\061\000\240\146\034\116\207\235\207\311\355\231\114
\033\012\356\055\140\303\067\307\035\315\265\162\260\331\306\357
\274\362\377\077\360\122\335\010\347\252\144\171\303\344\151\127
\221\057\244\313\174
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "GlobalSign Secure Mail Root E45"
Issuer: CN=GlobalSign Secure Mail Root E45,O=GlobalSign nv-sa,C=BE
Serial Number:76:53:fe:aa:27:1d:95:46:5d:d6:f1:9e:e5:b8:90:0a
Subject: CN=GlobalSign Secure Mail Root E45,O=GlobalSign nv-sa,C=BE
#
 Not Valid Before: Wed Mar 18 00:00:00 2020
Not Valid After : Sat Mar 18 00:00:00 2045

```
# Fingerprint (SHA-256):
5C:BF:6F:B8:1F:D4:17:EA:41:28:CD:6F:81:72:A3:C9:40:20:94:F7:4A:B2:ED:3A:06:B4:40:5D:04:F3:0B:19
# Fingerprint (SHA1): 18:2E:1F:32:4F:89:DF:BE:FE:88:89:F0:93:C2:C4:A0:2B:67:75:21
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Secure Mail Root E45"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\030\056\037\062\117\211\337\276\376\210\211\360\223\302\304\240
\053\147\165\041
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\305\374\306\056\237\364\122\055\052\250\244\272\373\147\062\377
END
CKA_ISSUER MULTILINE_OCTAL
\060\122\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\050\060\046\006\003
\125\004\003\023\037\107\154\157\142\141\154\123\151\147\156\040
\123\145\143\165\162\145\040\115\141\151\154\040\122\157\157\164
\040\105\064\065
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\166\123\376\252\047\035\225\106\135\326\361\236\345\270
\220\012
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "GlobalSign Root R46"
#
# Issuer: CN=GlobalSign Root R46,O=GlobalSign nv-sa,C=BE
# Serial Number:11:d2:bb:b9:d7:23:18:9e:40:5f:0a:9d:2d:d0:df:25:67:d1
# Subject: CN=GlobalSign Root R46,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 20 00:00:00 2019
# Not Valid After : Tue Mar 20 00:00:00 2046
# Fingerprint (SHA-256):
4F:A3:12:6D:8D:3A:11:D1:C4:85:5A:4F:80:7C:BA:D6:CF:91:9D:3A:5A:88:B0:3B:EA:2C:63:72:D9:3C:40:C9
# Fingerprint (SHA1): 53:A2:B0:4B:CA:6B:D6:45:E6:39:8A:8E:C4:0D:D2:BF:77:C3:A2:90
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE
```

CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root R46"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\106\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\034\060\032\006\003
\125\004\003\023\023\107\154\157\142\141\154\123\151\147\156\040
\122\157\157\164\040\122\064\066
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\106\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\034\060\032\006\003
\125\004\003\023\023\107\154\157\142\141\154\123\151\147\156\040
\122\157\157\164\040\122\064\066
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\022\021\322\273\271\327\043\030\236\100\137\012\235\055\320
\337\045\147\321
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\132\060\202\003\102\240\003\002\001\002\002\022\021
\322\273\271\327\043\030\236\100\137\012\235\055\320\337\045\147
\321\060\015\006\011\052\206\110\206\367\015\001\001\014\005\000
\060\106\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\034\060\032\006\003
\125\004\003\023\023\107\154\157\142\141\154\123\151\147\156\040
\122\157\157\164\040\122\064\066\060\036\027\015\061\071\060\063
\062\060\060\060\060\060\060\060\132\027\015\064\066\060\063\062
\060\060\060\060\060\060\060\132\060\106\061\013\060\011\006\003
\125\004\006\023\002\102\105\061\031\060\027\006\003\125\004\012
\023\020\107\154\157\142\141\154\123\151\147\156\040\156\166\055
\163\141\061\034\060\032\006\003\125\004\003\023\023\107\154\157
\142\141\154\123\151\147\156\040\122\157\157\164\040\122\064\066
\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001
\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001
\000\254\254\164\062\350\263\145\345\272\355\103\046\035\246\211
\015\105\272\051\210\262\244\035\143\335\323\301\054\011\127\211
\071\241\125\351\147\064\167\014\156\344\125\035\122\045\322\023
\153\136\341\035\251\267\175\211\062\137\015\236\237\054\172\143
\140\100\037\246\260\266\170\217\231\124\226\010\130\256\344\006
\274\142\005\002\026\277\257\250\043\003\266\224\017\274\156\154
\302\313\325\246\273\014\351\366\301\002\373\041\336\146\335\027
\253\164\102\357\360\164\057\045\364\352\153\125\133\220\333\235

\337\136\207\012\100\373\255\031\153\373\367\312\140\210\336\332
\301\217\326\256\325\177\324\074\203\356\327\026\114\203\105\063
\153\047\320\206\320\034\055\153\363\253\175\361\205\251\365\050
\322\255\357\363\204\113\034\207\374\023\243\072\162\242\132\021
\053\326\047\161\047\355\201\055\155\146\201\222\207\264\033\130
\172\314\077\012\372\106\117\115\170\134\370\053\110\343\004\204
\313\135\366\264\152\263\145\374\102\236\121\046\043\040\313\075
\024\371\201\355\145\026\000\117\032\144\227\146\010\317\214\173
\343\053\300\235\371\024\362\033\361\126\152\026\277\054\205\205
\315\170\070\232\353\102\152\002\064\030\203\027\116\224\126\370
\266\202\265\363\226\335\075\363\276\177\040\167\076\173\031\043
\153\054\324\162\163\103\127\175\340\370\327\151\117\027\066\004
\371\300\220\140\067\105\336\346\014\330\164\215\256\234\242\155
\164\135\102\276\006\365\331\144\156\002\020\254\211\260\114\073
\007\115\100\176\044\305\212\230\202\171\216\244\247\202\040\215
\043\372\047\161\311\337\306\101\164\240\115\366\221\026\334\106
\214\137\051\143\061\131\161\014\330\157\302\266\062\175\373\346
\135\123\246\176\025\374\273\165\174\135\354\370\366\027\034\354
\307\153\031\313\363\173\360\053\007\245\331\154\171\124\166\154
\235\034\246\156\016\351\171\014\250\043\152\243\337\033\060\061
\237\261\124\173\376\152\313\146\252\334\145\320\242\236\112\232
\007\041\153\201\217\333\304\131\372\336\042\300\004\234\343\252
\133\066\223\350\075\275\172\241\235\013\166\261\013\307\235\375
\317\230\250\006\302\370\052\243\241\203\240\267\045\162\245\002
\343\002\003\001\000\001\243\102\060\100\060\016\006\003\125\035
\017\001\001\377\004\004\003\002\001\206\060\017\006\003\125\035
\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125
\035\016\004\026\004\024\003\134\253\163\201\207\250\314\260\246
\325\224\342\066\226\111\377\005\231\054\060\015\006\011\052\206
\110\206\367\015\001\001\014\005\000\003\202\002\001\000\174\170
\354\366\002\054\273\133\176\222\053\135\071\334\276\330\035\242
\102\063\115\371\357\244\052\073\104\151\036\254\331\105\243\116
\074\247\330\044\121\262\124\034\223\116\304\357\173\223\205\140
\046\352\011\110\340\365\273\307\351\150\322\273\152\061\161\314
\171\256\021\250\360\231\375\345\037\274\057\250\314\127\353\166
\304\041\246\107\123\125\115\150\277\005\244\356\327\046\253\142
\332\103\067\113\342\306\265\345\262\203\031\072\307\323\333\115
\236\010\172\363\356\317\076\142\373\254\350\140\314\321\307\241
\134\203\105\304\105\314\363\027\153\024\311\004\002\076\322\044
\246\171\351\036\316\242\347\301\131\025\237\035\342\113\232\076
\237\166\010\055\153\330\272\127\024\332\203\352\376\214\125\351
\320\116\251\314\167\061\261\104\021\172\134\261\076\323\024\105
\025\030\142\044\023\322\313\115\316\134\203\301\066\362\020\265
\016\210\155\270\341\126\237\211\336\226\146\071\107\144\054\156
\115\256\142\173\277\140\164\031\270\126\254\222\254\026\062\355
\255\150\125\376\230\272\323\064\336\364\311\141\303\016\206\366
\113\204\140\356\015\173\265\062\130\171\221\125\054\201\103\263
\164\037\172\252\045\236\035\327\241\213\271\315\102\056\004\244

\146\203\115\211\065\266\154\250\066\112\171\041\170\042\320\102
\274\321\100\061\220\241\276\004\317\312\147\355\365\360\200\323
\140\311\203\052\042\005\320\007\073\122\277\014\236\252\053\371
\273\346\037\217\045\272\205\215\027\036\002\376\135\120\004\127
\317\376\055\274\357\134\300\032\253\266\237\044\306\337\163\150
\110\220\054\024\364\077\122\032\344\322\313\024\303\141\151\317
\342\371\030\305\272\063\237\024\243\004\135\271\161\367\265\224
\330\366\063\301\132\301\064\213\174\233\335\223\072\347\023\242
\160\141\237\257\217\353\330\305\165\370\063\146\324\164\147\072
\067\167\234\347\335\244\017\166\103\146\212\103\362\237\373\014
\102\170\143\321\342\017\157\173\324\241\075\164\227\205\267\110
\071\101\326\040\374\320\072\263\372\350\157\304\212\272\161\067
\276\213\227\261\170\061\117\263\347\266\003\023\316\124\235\256
\045\131\314\177\065\137\010\367\100\105\061\170\052\172
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "GlobalSign Root R46"
Issuer: CN=GlobalSign Root R46,O=GlobalSign nv-sa,C=BE
Serial Number:11:d2:bb:b9:d7:23:18:9e:40:5f:0a:9d:2d:d0:df:25:67:d1
Subject: CN=GlobalSign Root R46,O=GlobalSign nv-sa,C=BE
Not Valid Before: Wed Mar 20 00:00:00 2019
Not Valid After : Tue Mar 20 00:00:00 2046
Fingerprint
(SHA-256):
4F:A3:12:6D:8D:3A:11:D1:C4:85:5A:4F:80:7C:BA:D6:CF:91:9D:3A:5A:88:B0:3B:EA:2C:63:72:D9:3C:40:C9
Fingerprint (SHA1): 53:A2:B0:4B:CA:6B:D6:45:E6:39:8A:8E:C4:0D:D2:BF:77:C3:A2:90
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root R46"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\123\242\260\113\312\153\326\105\346\071\212\216\304\015\322\277
\167\303\242\220
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\304\024\060\344\372\146\103\224\052\152\033\044\137\031\320\357
END
CKA_ISSUER MULTILINE_OCTAL
\060\106\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\034\060\032\006\003
\125\004\003\023\023\107\154\157\142\141\154\123\151\147\156\040
\122\157\157\164\040\122\064\066

```
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\022\021\322\273\271\327\043\030\236\100\137\012\235\055\320
\337\045\147\321
END
CKA_TRUST_SERVER_AUTH
 CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "GlobalSign Root E46"
#
# Issuer: CN=GlobalSign Root E46,O=GlobalSign nv-sa,C=BE
# Serial Number:11:d2:bb:ba:33:6e:d4:bc:e6:24:68:c5:0d:84:1d:98:e8:43
# Subject: CN=GlobalSign Root E46,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 20 00:00:00 2019
# Not Valid After : Tue Mar 20 00:00:00 2046
# Fingerprint (SHA-256):
CB:B9:C4:4D:84:B8:04:3E:10:50:EA:31:A6:9F:51:49:55:D7:BF:D2:E2:C6:B4:93:01:01:9A:D6:1D:9F:50:58
# Fingerprint (SHA1): 39:B4:6C:D5:FE:80:06:EB:E2:2F:4A:BB:08:33:A0:AF:DB:B9:DD:84
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root E46"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT
 MULTILINE_OCTAL
\060\106\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\034\060\032\006\003
\125\004\003\023\023\107\154\157\142\141\154\123\151\147\156\040
\122\157\157\164\040\105\064\066
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\106\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\034\060\032\006\003
\125\004\003\023\023\107\154\157\142\141\154\123\151\147\156\040
\122\157\157\164\040\105\064\066
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\022\021\322\273\272\063\156\324\274\346\044\150\305\015\204
\035\230\350\103
END
```

```
CKA_VALUE MULTILINE_OCTAL
\060\202\002\013\060\202\001\221\240\003\002\001\002\002\022\021
\322\273\272\063\156\324\274\346\044\150\305\015\204\035\230\350
\103\060\012\006\010\052\206\110\316\075\004\003\003\060\106\061
\013\060\011\006\003\125\004\006\023\002\102\105\061\031\060\027
\006\003\125\004\012\023\020\107\154\157\142\141\154\123\151\147
\156\040\156\166\055\163\141\061\034\060\032\006\003\125\004\003
\023\023\107\154\157\142\141\154\123\151\147\156\040\122\157\157
\164\040\105\064\066\060\036\027\015\061\071\060\063\062\060\060
\060\060\060\060\060\132\027\015\064\066\060\063\062\060\060\060
\060\060\060\060\132\060\106\061\013\060\011\006\003\125\004\006
\023\002\102\105\061\031\060\027\006\003\125\004\012\023\020\107
\154\157\142\141\154\123\151\147\156\040\156\166\055\163\141\061
\034\060\032\006\003\125\004\003\023\023\107\154\157\142\141\154
\123\151\147\156\040\122\157\157\164\040\105\064\066\060\166\060
\020\006\007\052\206\110\316\075\002\001\006\005\053\201\004\000
\042\003\142\000\004\234\016\261\317\267\350\236\122\167\165\064
\372\245\106\247\255\062\031\062\264\007\251\047\312\224\273\014
\322\012\020\307\332\211\260\227\014\160\023\011\001\216\330\352
\107\352\276\262\200\053\315\374\050\015\333\254\274\244\206\067
\355\160\010\000\165\352\223\013\173\056\122\234\043\150\043\006
\103\354\222\057\123\204\333\373\107\024\007\350\137\224\147\135
\311\172\201\074\040\243\102\060\100\060\016\006\003\125\035\017
\001\001\377\004\004\003\002\001\206\060\017\006\003\125\035\023
\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125\035
\016\004\026\004\024\061\012\220\217\266\306\235\322\104\113\200
\265\242\346\037\261\022\117\033\225\060\012\006\010\052\206\110
\316\075\004\003\003\003\150\000\060\145\002\061\000\337\124\220
\355\233\357\213\224\002\223\027\202\231\276\263\236\054\366\013
\221\214\237\112\024\261\366\144\274\273\150\121\023\014\003\367
\025\213\204\140\271\213\377\122\216\347\214\274\034\002\060\074
\371\021\324\214\116\300\301\141\302\025\114\252\253\035\013\061
\137\073\034\342\000\227\104\061\346\376\163\226\057\332\226\323
\376\010\007\263\064\211\274\005\237\367\036\206\356\213\160
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER
 CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GlobalSign Root E46"
# Issuer: CN=GlobalSign Root E46,O=GlobalSign nv-sa,C=BE
# Serial Number:11:d2:bb:ba:33:6e:d4:bc:e6:24:68:c5:0d:84:1d:98:e8:43
# Subject: CN=GlobalSign Root E46,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 20 00:00:00 2019
# Not Valid After : Tue Mar 20 00:00:00 2046
# Fingerprint (SHA-256):
```

```
CB:B9:C4:4D:84:B8:04:3E:10:50:EA:31:A6:9F:51:49:55:D7:BF:D2:E2:C6:B4:93:01:01:9A:D6:1D:9F:50:58
# Fingerprint (SHA1): 39:B4:6C:D5:FE:80:06:EB:E2:2F:4A:BB:08:33:A0:AF:DB:B9:DD:84
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root E46"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\071\264\154\325\376\200\006\353\342\057\112\273\010\063\240\257
\333\271\335\204
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\265\270\146\355\336\010\203\343\311\342\001\064\006\254\121\157
END
CKA_ISSUER
 MULTILINE_OCTAL
\060\106\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\034\060\032\006\003
\125\004\003\023\023\107\154\157\142\141\154\123\151\147\156\040
\122\157\157\164\040\105\064\066
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\022\021\322\273\272\063\156\324\274\346\044\150\305\015\204
\035\230\350\103
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "GLOBALTRUST 2020"
#
# Issuer: CN=GLOBALTRUST 2020,O=e-commerce monitoring GmbH,C=AT
# Serial Number:5a:4b:bd:5a:fb:4f:8a:5b:fa:65:e5
# Subject: CN=GLOBALTRUST 2020,O=e-commerce monitoring GmbH,C=AT
# Not Valid Before: Mon Feb 10 00:00:00 2020
# Not Valid After : Sun Jun 10 00:00:00 2040
# Fingerprint (SHA-256):
9A:29:6A:51:82:D1:D4:51:A2:E3:7F:43:9B:74:DA:AF:A2:67:52:33:29:F9:0F:9A:0D:20:07:C3:34:E2:3C:9A
#
 Fingerprint (SHA1): D0:67:C1:13:51:01:0C:AA:D0:C7:6A:65:37:31:16:26:4F:53:71:A2
# For Server Distrust After: Sun Jun 30 00:00:00 2024
# For Email Distrust After: Sun Jun 30 00:00:00 2024
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
```

CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GLOBALTRUST 2020"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\101\124\061
\043\060\041\006\003\125\004\012\023\032\145\055\143\157\155\155
\145\162\143\145\040\155\157\156\151\164\157\162\151\156\147\040
\107\155\142\110\061\031\060\027\006\003\125\004\003\023\020\107
\114\117\102\101\114\124\122\125\123\124\040\062\060\062\060
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\101\124\061
\043\060\041\006\003\125\004\012\023\032\145\055\143\157\155\155
\145\162\143\145\040\155\157\156\151\164\157\162\151\156\147\040
\107\155\142\110\061\031\060\027\006\003\125\004\003\023\020\107
\114\117\102\101\114\124\122\125\123\124\040\062\060\062\060
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\013\132\113\275\132\373\117\212\133\372\145\345
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\202\060\202\003\152\240\003\002\001\002\002\013\132
\113\275\132\373\117\212\133\372\145\345\060\015\006\011\052\206
\110\206\367\015\001\001\013\005\000\060\115\061\013\060\011\006
\003\125\004\006\023\002\101\124\061\043\060\041\006\003\125\004
\012\023\032\145\055\143\157\155\155\145\162\143\145\040\155\157
\156\151\164\157\162\151\156\147\040\107\155\142\110\061\031\060
\027\006\003\125\004\003\023\020\107\114\117\102\101\114\124\122
\125\123\124\040\062\060\062\060\060\036\027\015\062\060\060\062
\061\060\060\060\060\060\060\060\132\027\015\064\060\060\066\061
\060\060\060\060\060\060\060\060\132\060\115\061\013\060\011\006\003
\125\004\006\023\002\101\124\061\043\060\041\006\003\125\004\012
\023\032\145\055\143\157\155\155\145\162\143\145\040\155\157\156
\151\164\157\162\151\156\147\040\107\155\142\110\061\031\060\027
\006\003\125\004\003\023\020\107\114\117\102\101\114\124\122\125
\123\124\040\062\060\062\060\060\202\002\042\060\015\006\011\052
\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060
\202\002\012\002\202\002\001\000\256\056\126\255\033\034\357\366
\225\217\240\167\033\053\323\143\217\204\115\105\242\017\237\133
\105\253\131\173\121\064\371\354\213\212\170\305\335\153\257\275
\304\337\223\105\036\277\221\070\013\256\016\026\347\101\163\370
\333\273\321\270\121\340\313\203\073\163\070\156\167\212\017\131
\143\046\315\247\052\316\124\373\270\342\300\174\107\316\140\174
\077\262\163\362\300\031\266\212\222\207\065\015\220\050\242\344
\025\004\143\076\272\257\356\174\136\314\246\213\120\262\070\367
\101\143\312\316\377\151\217\150\016\225\066\345\314\271\214\011

\312\113\335\061\220\226\310\314\037\375\126\226\064\333\216\034
\352\054\276\205\056\143\335\252\251\225\323\375\051\225\023\360
\310\230\223\331\055\026\107\220\021\203\242\072\042\242\050\127
\242\353\376\300\214\050\240\246\175\347\052\102\073\202\200\143
\245\143\037\031\314\174\262\146\250\302\323\155\067\157\342\176
\006\121\331\105\204\037\022\316\044\122\144\205\013\110\200\116
\207\261\042\042\060\252\353\256\276\340\002\340\100\350\260\102
\200\003\121\252\264\176\252\104\327\103\141\363\242\153\026\211
\111\244\243\244\053\212\002\304\170\364\150\212\301\344\172\066
\261\157\033\226\033\167\111\215\324\311\006\162\217\317\123\343
\334\027\205\040\112\334\230\047\323\221\046\053\107\036\151\007
\257\336\242\344\344\324\153\013\263\136\174\324\044\200\107\051
\151\073\156\350\254\375\100\353\330\355\161\161\053\362\350\130
\035\353\101\227\042\305\037\324\071\320\047\217\207\343\030\364
\340\251\106\015\365\164\072\202\056\320\156\054\221\243\061\134
\073\106\352\173\004\020\126\136\200\035\365\245\145\350\202\374
\342\007\214\142\105\365\040\336\106\160\206\241\274\223\323\036
\164\246\154\260\054\367\003\014\210\014\313\324\162\123\206\274
\140\106\363\230\152\302\361\277\103\371\160\040\167\312\067\101
\171\125\122\143\215\133\022\237\305\150\304\210\235\254\362\060
\253\267\243\061\227\147\255\217\027\017\154\307\163\355\044\224
\153\310\203\232\320\232\067\111\004\253\261\026\310\154\111\111
\055\253\241\320\214\222\362\101\112\171\041\045\333\143\327\266
\234\247\176\102\151\373\072\143\002\003\001\000\001\243\143\060
\141\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001
\001\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002
\001\006\060\035\006\003\125\035\016\004\026\004\024\334\056\037
\321\141\067\171\344\253\325\325\263\022\161\150\075\152\150\234
\042\060\037\006\003\125\035\043\004\030\060\026\200\024\334\056
\037\321\141\067\171\344\253\325\325\263\022\161\150\075\152\150
\234\042\060\015\006\011\052\206\110\206\367\015\001\001\013\005
\000\003\202\002\001\000\221\360\102\002\150\100\356\303\150\300
\124\057\337\354\142\303\303\236\212\240\061\050\252\203\216\244
\126\226\022\020\206\126\272\227\162\322\124\060\174\255\031\325
\035\150\157\373\024\102\330\215\016\363\265\321\245\343\002\102
\136\334\350\106\130\007\065\002\060\340\274\164\112\301\103\052
\377\333\032\320\260\257\154\303\375\313\263\365\177\155\003\056
\131\126\235\055\055\065\214\262\326\103\027\054\222\012\313\135
\350\214\017\113\160\103\320\202\377\250\314\277\244\224\300\276
\207\275\212\343\223\173\306\217\233\026\235\047\145\274\172\305
\102\202\154\134\007\320\251\301\210\140\104\351\230\205\026\137
\370\217\312\001\020\316\045\303\371\140\033\240\305\227\303\323
\054\210\061\242\275\060\354\320\320\300\022\361\301\071\343\345
\365\370\326\112\335\064\315\373\157\301\117\343\000\213\126\342
\222\367\050\262\102\167\162\043\147\307\077\021\025\262\304\003
\005\276\273\021\173\012\277\250\156\347\377\130\103\317\233\147
\240\200\007\266\035\312\255\155\352\101\021\176\055\164\223\373
\302\274\276\121\104\305\357\150\045\047\200\343\310\240\324\022

\354\331\245\067\035\067\174\264\221\312\332\324\261\226\201\357
\150\134\166\020\111\257\176\245\067\200\261\034\122\275\063\201
\114\217\371\335\145\331\024\315\212\045\130\364\342\305\203\245
\011\220\324\154\024\143\265\100\337\353\300\374\304\130\176\015
\024\026\207\124\047\156\126\344\160\204\270\154\062\022\176\202
\061\103\276\327\335\174\241\255\256\326\253\040\022\357\012\303
\020\214\111\226\065\334\013\165\136\261\117\325\117\064\016\021
\040\007\165\103\105\351\243\021\332\254\243\231\302\266\171\047
\342\271\357\310\342\366\065\051\172\164\372\305\177\202\005\142
\246\012\352\150\262\171\107\006\156\362\127\250\025\063\306\367
\170\112\075\102\173\153\176\376\367\106\352\321\353\216\357\210
\150\133\350\301\331\161\176\375\144\357\377\147\107\210\130\045
\057\076\206\007\275\373\250\345\202\250\254\245\323\151\103\315
\061\210\111\204\123\222\300\261\071\033\071\203\001\060\304\362
\251\372\320\003\275\162\067\140\126\037\066\174\275\071\221\365
\155\015\277\173\327\222
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER MULTILINE_OCTAL
\062\064\060\066\063\060\060\060\060\060\060\060\132
END
CKA_NSS_EMAIL_DISTRUST_AFTER MULTILINE_OCTAL
\062\064\060\066\063\060\060\060\060\060\060\060\132
END

Trust for "GLOBALTRUST 2020"
Issuer: CN=GLOBALTRUST 2020,O=e-commerce monitoring GmbH,C=AT
Serial Number:5a:4b:bd:5a:fb:4f:8a:5b:fa:65:e5
Subject: CN=GLOBALTRUST 2020,O=e-commerce monitoring GmbH,C=AT
Not Valid Before: Mon Feb 10 00:00:00 2020
Not Valid After : Sun Jun 10 00:00:00 2040
Fingerprint (SHA-256):
9A:29:6A:51:82:D1:D4:51:A2:E3:7F:43:9B:74:DA:AF:A2:67:52:33:29:F9:0F:9A:0D:20:07:C3:34:E2:3C:9A
Fingerprint (SHA1): D0:67:C1:13:51:01:0C:AA:D0:C7:6A:65:37:31:16:26:4F:53:71:A2
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GLOBALTRUST 2020"
CKA_CERT_SHA1_HASH
 MULTILINE_OCTAL
\320\147\301\023\121\001\014\252\320\307\152\145\067\061\026\046
\117\123\161\242
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\212\307\157\313\155\343\314\242\361\174\203\372\016\170\327\350
END

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CKA_ISSUER MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\101\124\061
\043\060\041\006\003\125\004\012\023\032\145\055\143\157\155\155
\145\162\143\145\040\155\157\156\151\164\157\162\151\156\147\040
\107\155\142\110\061\031\060\027\006\003\125\004\003\023\020\107
\114\117\102\101\114\124\122\125\123\124\040\062\060\062\060
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\132\113\275\132\373\117\212\133\372\145\345
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "ANF Secure Server Root CA"
#
# Issuer: CN=ANF Secure Server Root CA,OU=ANF CA Raiz,O=ANF Autoridad
 de Certificacion,C=ES,serialNumber=G63287510
# Serial Number:0d:d3:e3:bc:6c:f9:6b:b1
# Subject: CN=ANF Secure Server Root CA,OU=ANF CA Raiz,O=ANF Autoridad de
Certificacion,C=ES,serialNumber=G63287510
# Not Valid Before: Wed Sep 04 10:00:38 2019
# Not Valid After : Tue Aug 30 10:00:38 2039
# Fingerprint (SHA-256):
FB:8F:EC:75:91:69:B9:10:6B:1E:51:16:44:C6:18:C5:13:04:37:3F:6C:06:43:08:8D:8B:EF:FD:1B:99:75:99
# Fingerprint (SHA1): 5B:6E:68:D0:CC:15:B6:A0:5F:1E:C1:5F:AE:02:FC:6B:2F:5D:6F:74
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ANF Secure Server Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\204\061\022\060\020\006\003\125\004\005\023\011\107\066
\063\062\070\067\065\061\060\061\013\060\011\006\003\125\004\006
\023\002\105\123\061\047\060\045\006\003\125\004\012\023\036\101
\116\106\040\101\165\164\157\162\151\144\141\144\040\144\145\040
\103\145\162\164\151\146\151\143\141\143\151\157\156\061\024\060
\022\006\003\125\004\013\023\013\101\116\106\040\103\101\040\122
\141\151\172\061\042\060\040\006\003\125\004\003\023\031\101\116
\106\040\123\145\143\165\162\145\040\123\145\162\166\145\162\040
\122\157\157\164\040\103\101
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
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\060\201\204\061\022\060\020\006\003\125\004\005\023\011\107\066
\063\062\070\067\065\061\060\061\013\060\011\006\003\125\004\006
\023\002\105\123\061\047\060\045\006\003\125\004\012\023\036\101
\116\106\040\101\165\164\157\162\151\144\141\144\040\144\145\040
\103\145\162\164\151\146\151\143\141\143\151\157\156\061\024\060
\022\006\003\125\004\013\023\013\101\116\106\040\103\101\040\122
\141\151\172\061\042\060\040\006\003\125\004\003\023\031\101\116
\106\040\123\145\143\165\162\145\040\123\145\162\166\145\162\040
\122\157\157\164\040\103\101
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CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\015\323\343\274\154\371\153\261
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\323\343\274\154\371\153\261\060\015\006\011\052\206\110\206\367
\015\001\001\013\005\000\060\201\204\061\022\060\020\006\003\125
\004\005\023\011\107\066\063\062\070\067\065\061\060\061\013\060
\011\006\003\125\004\006\023\002\105\123\061\047\060\045\006\003
\125\004\012\023\036\101\116\106\040\101\165\164\157\162\151\144
\141\144\040\144\145\040\103\145\162\164\151\146\151\143\141\143
\151\157\156\061\024\060\022\006\003\125\004\013\023\013\101\116
\106\040\103\101\040\122\141\151\172\061\042\060\040\006\003\125
\004\003\023\031\101\116\106\040\123\145\143\165\162\145\040\123
\145\162\166\145\162\040\122\157\157\164\040\103\101\060\036\027
\015\061\071\060\071\060\064\061\060\060\060\063\070\132\027\015
\063\071\060\070\063\060\061\060\060\060\063\070\132\060\201\204
\061\022\060\020\006\003\125\004\005\023\011\107\066\063\062\070
\067\065\061\060\061\013\060\011\006\003\125\004\006\023\002\105
\123\061\047\060\045\006\003\125\004\012\023\036\101\116\106\040
\101\165\164\157\162\151\144\141\144\040\144\145\040\103\145\162
\164\151\146\151\143\141\143\151\157\156\061\024\060\022\006\003
\125\004\013\023\013\101\116\106\040\103\101\040\122\141\151\172
\061\042\060\040\006\003\125\004\003\023\031\101\116\106\040\123
\145\143\165\162\145\040\123\145\162\166\145\162\040\122\157\157
\164\040\103\101\060\202\002\042\060\015\006\011\052\206\110\206
\367\015\001\001\001\005\000\003\202\002\017\000\060\202\002\012
\002\202\002\001\000\333\353\153\053\346\144\124\225\202\220\243
\162\244\031\001\235\234\013\201\137\163\111\272\247\254\363\004
\116\173\226\013\354\021\340\133\246\034\316\033\322\015\203\034
\053\270\236\035\176\105\062\140\017\007\351\167\130\176\237\152
\310\141\116\266\046\301\114\215\377\114\357\064\262\037\145\330
\271\170\365\255\251\161\271\357\117\130\035\245\336\164\040\227
\241\355\150\114\336\222\027\113\274\253\377\145\232\236\373\107
\331\127\162\363\011\241\256\166\104\023\156\234\055\104\071\274
\371\307\073\244\130\075\101\275\264\302\111\243\310\015\322\227
\057\007\145\122\000\247\156\310\257\150\354\364\024\226\266\127
\037\126\303\071\237\053\155\344\363\076\366\065\144\332\014\034

\241\204\113\057\113\113\342\054\044\235\155\223\100\353\265\043
\216\062\312\157\105\323\250\211\173\036\317\036\372\133\103\213
\315\315\250\017\152\312\014\136\271\236\107\217\360\331\266\012
\013\130\145\027\063\271\043\344\167\031\175\313\112\056\222\173
\117\057\020\167\261\215\057\150\234\142\314\340\120\370\354\221
\247\124\114\127\011\325\166\143\305\350\145\036\356\155\152\317
\011\235\372\174\117\255\140\010\375\126\231\017\025\054\173\251
\200\253\214\141\217\112\007\166\102\336\075\364\335\262\044\063
\133\270\265\243\104\311\254\177\167\074\035\043\354\202\251\246
\342\310\006\114\002\376\254\134\231\231\013\057\020\212\246\364
\177\325\207\164\015\131\111\105\366\360\161\134\071\051\326\277
\112\043\213\365\137\001\143\322\207\163\050\265\113\012\365\370
\253\202\054\176\163\045\062\035\013\143\012\027\201\000\377\266
\166\136\347\264\261\100\312\041\273\325\200\121\345\110\122\147
\054\322\141\211\007\015\017\316\102\167\300\104\163\234\104\120
\240\333\020\012\055\225\034\201\257\344\034\345\024\036\361\066
\101\001\002\057\175\163\247\336\102\314\114\351\211\015\126\367
\237\221\324\003\306\154\311\217\333\330\034\340\100\230\135\146
\231\230\200\156\055\377\001\305\316\313\106\037\254\002\306\103
\346\256\242\204\074\305\116\036\075\155\311\024\114\343\056\101
\273\312\071\277\066\074\052\031\252\101\207\116\245\316\113\062
\171\335\220\111\177\002\003\001\000\001\243\143\060\141\060\037
\006\003\125\035\043\004\030\060\026\200\024\234\137\320\154\143
\243\137\223\312\223\230\010\255\214\207\245\054\134\301\067\060
\035\006\003\125\035\016\004\026\004\024\234\137\320\154\143\243
\137\223\312\223\230\010\255\214\207\245\054\134\301\067\060\016
\006\003\125\035\017\001\001\377\004\004\003\002\001\206\060\017
\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\003\202
\002\001\000\116\036\271\212\306\240\230\077\156\303\151\300\152
\134\111\122\254\313\053\135\170\070\301\325\124\204\237\223\360
\207\031\075\054\146\211\353\015\102\374\314\360\165\205\077\213
\364\200\135\171\345\027\147\275\065\202\342\362\074\216\175\133
\066\313\132\200\000\051\362\316\053\054\361\217\252\155\005\223
\154\162\307\126\353\337\120\043\050\345\105\020\075\350\147\243
\257\016\125\017\220\011\142\357\113\131\242\366\123\361\300\065
\344\057\301\044\275\171\057\116\040\042\073\375\032\040\260\244
\016\054\160\355\164\077\270\023\225\006\121\310\350\207\046\312
\244\133\152\026\041\222\335\163\140\236\020\030\336\074\201\352
\350\030\303\174\211\362\213\120\076\275\021\342\025\003\250\066
\175\063\001\154\110\025\327\210\220\231\004\305\314\346\007\364
\274\364\220\355\023\342\352\213\303\217\243\063\017\301\051\114
\023\116\332\025\126\161\163\162\202\120\366\232\063\174\242\261
\250\032\064\164\145\134\316\321\353\253\123\340\032\200\330\352
\072\111\344\046\060\233\345\034\212\250\251\025\062\206\231\222
\012\020\043\126\022\340\366\316\114\342\273\276\333\215\222\163
\001\146\057\142\076\262\162\047\105\066\355\115\126\343\227\231
\377\072\065\076\245\124\112\122\131\113\140\333\356\376\170\021

\177\112\334\024\171\140\266\153\144\003\333\025\203\341\242\276
\366\043\227\120\360\011\063\066\247\161\226\045\363\271\102\175
\333\070\077\054\130\254\350\102\341\016\330\323\073\114\056\202
\351\203\056\153\061\331\335\107\206\117\155\227\221\056\117\342
\050\161\065\026\321\362\163\376\045\053\007\107\044\143\047\310
\370\366\331\153\374\022\061\126\010\300\123\102\257\234\320\063
\176\374\006\360\061\104\003\024\361\130\352\362\152\015\251\021
\262\203\276\305\032\277\007\352\131\334\243\210\065\357\234\166
\062\074\115\006\042\316\025\345\335\236\330\217\332\336\322\304
\071\345\027\201\317\070\107\353\177\210\155\131\033\337\237\102
\024\256\176\317\250\260\146\145\332\067\257\237\252\075\352\050
\266\336\325\061\130\026\202\133\352\273\031\165\002\163\032\312
\110\032\041\223\220\012\216\223\204\247\175\073\043\030\222\211
\240\215\254
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "ANF Secure Server Root CA"
Issuer: CN=ANF Secure Server Root CA,OU=ANF CA Raiz,O=ANF Autoridad de
Certificacion,C=ES,serialNumber=G63287510
Serial Number:0d:d3:e3:bc:6c:f9:6b:b1
Subject: CN=ANF Secure Server Root CA,OU=ANF CA Raiz,O=ANF Autoridad de
Certificacion,C=ES,serialNumber=G63287510
Not Valid Before: Wed Sep 04 10:00:38 2019
Not Valid After : Tue Aug 30 10:00:38 2039
Fingerprint (SHA-256):
FB:8F:EC:75:91:69:B9:10:6B:1E:51:16:44:C6:18:C5:13:04:37:3F:6C:06:43:08:8D:8B:EF:FD:1B:99:75:99
Fingerprint (SHA1): 5B:6E:68:D0:CC:15:B6:A0:5F:1E:C1:5F:AE:02:FC:6B:2F:5D:6F:74
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE
 CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ANF Secure Server Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\133\156\150\320\314\025\266\240\137\036\301\137\256\002\374\153
\057\135\157\164
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\046\246\104\132\331\257\116\057\262\035\266\145\260\116\350\226
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\204\061\022\060\020\006\003\125\004\005\023\011\107\066
\063\062\070\067\065\061\060\061\013\060\011\006\003\125\004\006
\023\002\105\123\061\047\060\045\006\003\125\004\012\023\036\101

\116\106\040\101\165\164\157\162\151\144\141\144\040\144\145\040
\103\145\162\164\151\146\151\143\141\143\151\157\156\061\024\060
\022\006\003\125\004\013\023\013\101\116\106\040\103\101\040\122
\141\151\172\061\042\060\040\006\003\125\004\003\023\031\101\116
\106\040\123\145\143\165\162\145\040\123\145\162\166\145\162\040
\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\015\323\343\274\154\371\153\261
END
CKA_TRUST_SERVER_AUTH
 CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Certum EC-384 CA"
#
Issuer: CN=Certum EC-384 CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
Serial Number:78:8f:27:5c:81:12:52:20:a5:04:d0:2d:dd:ba:73:f4
Subject: CN=Certum EC-384 CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
Not Valid Before: Mon Mar 26 07:24:54 2018
Not Valid After : Thu Mar 26 07:24:54 2043
Fingerprint (SHA-256):
6B:32:80:85:62:53:18:AA:50:D1:73:C9:8D:8B:DA:09:D5:7E:27:41:3D:11:4C:F7:87:A0:F5:D0:6C:03:0C:F6
Fingerprint (SHA1): F3:3E:78:3C:AC:DF:F4:A2:CC:AC:67:55:69:56:D7:E5:16:3C:E1:ED
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum EC-384 CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE
 CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\164\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\041\060\037\006\003\125\004\012\023\030\101\163\163\145\143\157
\040\104\141\164\141\040\123\171\163\164\145\155\163\040\123\056
\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145\162
\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\061\031\060\027\006
\003\125\004\003\023\020\103\145\162\164\165\155\040\105\103\055
\063\070\064\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\164\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\041\060\037\006\003\125\004\012\023\030\101\163\163\145\143\157

\040\104\141\164\141\040\123\171\163\164\145\155\163\040\123\056
\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145\162
\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\061\031\060\027\006
\003\125\004\003\023\020\103\145\162\164\165\155\040\105\103\055
\063\070\064\040\103\101
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\170\217\047\134\201\022\122\040\245\004\320\055\335\272
\163\364
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\145\060\202\001\353\240\003\002\001\002\002\020\170
\217\047\134\201\022\122\040\245\004\320\055\335\272\163\364\060
\012\006\010\052\206\110\316\075\004\003\003\060\164\061\013\060
\011\006\003\125\004\006\023\002\120\114\061\041\060\037\006\003
\125\004\012\023\030\101\163\163\145\143\157\040\104\141\164\141
\040\123\171\163\164\145\155\163\040\123\056\101\056\061\047\060
\045\006\003\125\004\013\023\036\103\145\162\164\165\155\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164
\150\157\162\151\164\171\061\031\060\027\006\003\125\004\003\023
\020\103\145\162\164\165\155\040\105\103\055\063\070\064\040\103
\101\060\036\027\015\061\070\060\063\062\066\060\067\062\064\065
\064\132\027\015\064\063\060\063\062\066\060\067\062\064\065\064
\132\060\164\061\013\060\011\006\003\125\004\006\023\002\120\114
\061\041\060\037\006\003\125\004\012\023\030\101\163\163\145\143
\157\040\104\141\164\141\040\123\171\163\164\145\155\163\040\123
\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145
\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\061\031\060\027
\006\003\125\004\003\023\020\103\145\162\164\165\155\040\105\103
\055\063\070\064\040\103\101\060\166\060\020\006\007\052\206\110
\316\075\002\001\006\005\053\201\004\000\042\003\142\000\004\304
\050\216\253\030\133\152\276\156\144\067\143\344\315\354\253\072
\367\314\241\270\016\202\111\327\206\051\237\241\224\362\343\140
\170\230\201\170\006\115\362\354\232\016\127\140\203\237\264\346
\027\057\032\263\135\002\133\211\043\074\302\021\005\052\247\210
\023\030\363\120\204\327\275\064\054\047\211\125\377\316\114\347
\337\246\037\050\304\360\124\303\271\174\267\123\255\353\302\243
\102\060\100\060\017\006\003\125\035\023\001\001\377\004\005\060
\003\001\001\377\060\035\006\003\125\035\016\004\026\004\024\215
\006\146\164\044\166\072\363\211\367\274\326\275\107\175\057\274
\020\137\113\060\016\006\003\125\035\017\001\001\377\004\004\003
\002\001\006\060\012\006\010\052\206\110\316\075\004\003\003\003
\150\000\060\145\002\060\003\125\055\246\346\030\304\174\357\311
\120\156\301\047\017\234\207\257\156\325\033\010\030\275\222\051
\301\357\224\221\170\322\072\034\125\211\142\345\033\011\036\272

\144\153\361\166\264\324\002\061\000\264\102\204\231\377\253\347
\236\373\221\227\047\135\334\260\133\060\161\316\136\070\032\152
\331\045\347\352\367\141\222\126\370\352\332\066\302\207\145\226
\056\162\045\057\177\337\303\023\311
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Certum EC-384 CA"
Issuer: CN=Certum EC-384 CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
Serial Number:78:8f:27:5c:81:12:52:20:a5:04:d0:2d:dd:ba:73:f4
#
Subject: CN=Certum EC-384 CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
Not Valid Before: Mon Mar 26 07:24:54 2018
Not Valid After : Thu Mar 26 07:24:54 2043
Fingerprint (SHA-256):
6B:32:80:85:62:53:18:AA:50:D1:73:C9:8D:8B:DA:09:D5:7E:27:41:3D:11:4C:F7:87:A0:F5:D0:6C:03:0C:F6
Fingerprint (SHA1): F3:3E:78:3C:AC:DF:F4:A2:CC:AC:67:55:69:56:D7:E5:16:3C:E1:ED
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum EC-384 CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\363\076\170\074\254\337\364\242\314\254\147\125\151\126\327\345
\026\074\341\355
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\266\145\263\226\140\227\022\241\354\116\341\075\243\306\311\361
END
CKA_ISSUER MULTILINE_OCTAL
\060\164\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\041\060\037\006\003\125\004\012\023\030\101\163\163\145\143\157
\040\104\141\164\141\040\123\171\163\164\145\155\163\040\123\056
\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145\162
\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\061\031\060\027\006
\003\125\004\003\023\020\103\145\162\164\165\155\040\105\103\055
\063\070\064\040\103\101
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\170\217\047\134\201\022\122\040\245\004\320\055\335\272
\163\364
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

```
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Certum Trusted Root CA"
#
# Issuer: CN=Certum Trusted Root CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Serial Number:1e:bf:59:50:b8:c9:80:37:4c:06:f7:eb:55:4f:b5:ed
# Subject: CN=Certum Trusted Root CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Not Valid Before: Fri Mar
 16 12:10:13 2018
# Not Valid After : Mon Mar 16 12:10:13 2043
# Fingerprint (SHA-256):
FE:76:96:57:38:55:77:3E:37:A9:5E:7A:D4:D9:CC:96:C3:01:57:C1:5D:31:76:5B:A9:B1:57:04:E1:AE:78:FD
# Fingerprint (SHA1): C8:83:44:C0:18:AE:9F:CC:F1:87:B7:8F:22:D1:C5:D7:45:84:BA:E5
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\172\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\041\060\037\006\003\125\004\012\023\030\101\163\163\145\143\157
\040\104\141\164\141\040\123\171\163\164\145\155\163\040\123\056
\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145\162
\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\061\037\060\035\006
\003\125\004\003\023\026\103\145\162\164\165\155\040\124\162\165
\163\164\145\144\040\122\157\157\164\040\103\101
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\172\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\041\060\037\006\003\125\004\012\023\030\101\163\163\145\143\157
\040\104\141\164\141\040\123\171\163\164\145\155\163\040\123\056
\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145\162
\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\061\037\060\035\006
\003\125\004\003\023\026\103\145\162\164\165\155\040\124\162\165
\163\164\145\144\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\036\277\131\120\270\311\200\067\114\006\367\353\125\117
\265\355
END
```

CKA_VALUE MULTILINE_OCTAL

\060\202\005\300\060\202\003\250\240\003\002\001\002\002\020\036
\277\131\120\270\311\200\067\114\006\367\353\125\117\265\355\060
\015\006\011\052\206\110\206\367\015\001\001\015\005\000\060\172
\061\013\060\011\006\003\125\004\006\023\002\120\114\061\041\060
\037\006\003\125\004\012\023\030\101\163\163\145\143\157\040\104
\141\164\141\040\123\171\163\164\145\155\163\040\123\056\101\056
\061\047\060\045\006\003\125\004\013\023\036\103\145\162\164\165
\155\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040
\101\165\164\150\157\162\151\164\171\061\037\060\035\006\003\125
\004\003\023\026\103\145\162\164\165\155\040\124\162\165\163\164
\145\144\040\122\157\157\164\040\103\101\060\036\027\015\061\070
\060\063\061\066\061\062\061\060\061\063\132\027\015\064\063\060
\063\061\066\061\062\061\060\061\063\132\060\172\061\013\060\011
\006\003\125\004\006\023\002\120\114\061\041\060\037\006\003\125
\004\012\023\030\101\163\163\145\143\157\040\104\141\164\141\040
\123\171\163\164\145\155\163\040\123\056\101\056\061\047\060\045
\006\003\125\004\013\023\036\103\145\162\164\165\155\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171\061\037\060\035\006\003\125\004\003\023\026
\103\145\162\164\165\155\040\124\162\165\163\164\145\144\040\122
\157\157\164\040\103\101\060\202\002\042\060\015\006\011\052\206
\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202
\002\012\002\202\002\001\000\321\055\216\273\267\066\352\155\067
\221\237\116\223\247\005\344\051\003\045\316\034\202\367\174\231
\237\101\006\315\355\243\272\300\333\011\054\301\174\337\051\176
\113\145\057\223\247\324\001\153\003\050\030\243\330\235\005\301
\052\330\105\361\221\336\337\073\320\200\002\214\317\070\017\352
\247\134\170\021\244\301\310\205\134\045\323\323\262\347\045\317
\021\124\227\253\065\300\036\166\034\357\000\123\237\071\334\024
\245\054\042\045\263\162\162\374\215\263\345\076\010\036\024\052
\067\013\210\074\312\260\364\310\302\241\256\274\301\276\051\147
\125\342\374\255\131\134\376\275\127\054\260\220\215\302\355\067
\266\174\231\210\265\325\003\232\075\025\015\075\072\250\250\105
\360\225\116\045\131\035\315\230\151\273\323\314\062\311\215\357
\201\376\255\175\211\273\272\140\023\312\145\225\147\240\363\031
\366\003\126\324\152\323\047\342\241\255\203\360\112\022\042\167
\034\005\163\342\031\161\102\300\354\165\106\232\220\130\340\152
\216\053\245\106\060\004\216\031\262\027\343\276\251\272\177\126
\361\044\003\327\262\041\050\166\016\066\060\114\171\325\101\232
\232\250\270\065\272\014\072\362\104\033\040\210\367\305\045\327
\075\306\343\076\103\335\207\376\304\352\365\123\076\114\145\377
\073\112\313\170\132\153\027\137\015\307\303\117\116\232\052\242
\355\127\115\042\342\106\232\077\017\221\064\044\175\125\343\214
\225\067\323\032\360\011\053\054\322\311\215\264\015\000\253\147
\051\050\330\001\365\031\004\266\035\276\166\376\162\134\304\205
\312\322\200\101\337\005\250\243\325\204\220\117\013\363\340\077
\233\031\322\067\211\077\362\173\122\034\214\366\341\367\074\007

\227\214\016\242\131\201\014\262\220\075\323\343\131\106\355\017
\251\247\336\200\153\132\252\007\266\031\313\274\127\363\227\041
\172\014\261\053\164\076\353\332\247\147\055\114\304\230\236\066
\011\166\146\146\374\032\077\352\110\124\034\276\060\275\200\120
\277\174\265\316\000\366\014\141\331\347\044\003\340\343\001\201
\016\275\330\205\064\210\275\262\066\250\173\134\010\345\104\200
\214\157\370\057\325\041\312\035\034\320\373\304\265\207\321\072
\116\307\166\265\065\110\265\002\003\001\000\001\243\102\060\100
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001
\377\060\035\006\003\125\035\016\004\026\004\024\214\373\034\165
\274\002\323\237\116\056\110\331\371\140\124\252\304\263\117\372
\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006
\060\015\006\011\052\206\110\206\367\015\001\001\015\005\000\003
\202\002\001\000\110\242\325\000\013\056\320\077\274\034\325\265
\124\111\036\132\153\364\344\362\340\100\067\340\314\024\173\271
\311\372\065\265\165\027\223\152\005\151\205\234\315\117\031\170
\133\031\201\363\143\076\303\316\133\217\365\057\136\001\166\023
\077\054\000\271\315\226\122\071\111\155\004\116\305\351\017\206
\015\341\372\263\137\202\022\361\072\316\146\006\044\064\053\350
\314\312\347\151\334\207\235\302\064\327\171\321\323\167\270\252
\131\130\376\235\046\372\070\206\076\235\212\207\144\127\345\027
\072\342\371\215\271\343\063\170\301\220\330\270\335\267\203\121
\344\304\314\043\325\006\174\346\121\323\315\064\061\300\366\106
\273\013\255\374\075\020\005\052\073\112\221\045\356\214\324\204
\207\200\052\274\011\214\252\072\023\137\350\064\171\120\301\020
\031\371\323\050\036\324\321\121\060\051\263\256\220\147\326\037
\012\143\261\305\251\306\102\061\143\027\224\357\151\313\057\372
\214\024\175\304\103\030\211\331\360\062\100\346\200\342\106\137
\345\343\301\000\131\250\371\350\040\274\211\054\016\107\064\013
\352\127\302\123\066\374\247\324\257\061\315\376\002\345\165\372
\271\047\011\371\363\365\073\312\175\237\251\042\313\210\311\252
\321\107\075\066\167\250\131\144\153\047\317\357\047\301\343\044
\265\206\367\256\176\062\115\260\171\150\321\071\350\220\130\303
\203\274\017\054\326\227\353\316\014\341\040\307\332\267\076\303
\077\277\057\334\064\244\373\053\041\315\147\217\113\364\343\352
\324\077\347\117\272\271\245\223\105\034\146\037\041\372\144\136
\157\340\166\224\062\313\165\365\156\345\366\217\307\270\244\314
\250\226\175\144\373\044\132\112\003\154\153\070\306\350\003\103
\232\367\127\271\263\051\151\223\070\364\003\362\273\373\202\153
\007\040\321\122\037\232\144\002\173\230\146\333\134\115\132\017
\320\204\225\240\074\024\103\006\312\312\333\270\101\066\332\152
\104\147\207\257\257\343\105\021\025\151\010\262\276\026\071\227
\044\157\022\105\321\147\135\011\250\311\025\332\372\322\246\137
\023\141\037\277\205\254\264\255\255\005\224\010\203\036\165\027
\323\161\073\223\120\043\131\240\355\074\221\124\235\166\000\305
\303\270\070\333
END
CKA_NSS_MOZILLA_CA_POLICY

```
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Certum Trusted Root CA"
# Issuer: CN=Certum Trusted Root CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Serial
 Number:1e:bf:59:50:b8:c9:80:37:4c:06:f7:eb:55:4f:b5:ed
# Subject: CN=Certum Trusted Root CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Not Valid Before: Fri Mar 16 12:10:13 2018
# Not Valid After : Mon Mar 16 12:10:13 2043
# Fingerprint (SHA-256):
FE:76:96:57:38:55:77:3E:37:A9:5E:7A:D4:D9:CC:96:C3:01:57:C1:5D:31:76:5B:A9:B1:57:04:E1:AE:78:FD
# Fingerprint (SHA1): C8:83:44:C0:18:AE:9F:CC:F1:87:B7:8F:22:D1:C5:D7:45:84:BA:E5
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\310\203\104\300\030\256\237\314\361\207\267\217\042\321\305\327
\105\204\272\345
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\121\341\302\347\376\114\204\257\131\016\057\364\124\157\352\051
END
CKA_ISSUER MULTILINE_OCTAL
\060\172\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\041\060\037\006\003\125\004\012\023\030\101\163\163\145\143\157
\040\104\141\164\141\040\123\171\163\164\145\155\163\040\123\056
\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145\162
\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\061\037\060\035\006
\003\125\004\003\023\026\103\145\162\164\165\155\040\124\162\165
\163\164\145\144\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\036\277\131\120\270\311\200\067\114\006\367\353\125\117
\265\355
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "TunTrust Root CA"
```

```
#
# Issuer: CN=TunTrust Root CA,O=Agence Nationale de Certification Electronique,C=TN
# Serial Number:13:02:d5:e2:40:4c:92:46:86:16:67:5d:b4:bb:bb:b2:6b:3e:fc:13
# Subject: CN=TunTrust Root CA,O=Agence Nationale de Certification Electronique,C=TN
#
 Not Valid Before: Fri Apr 26 08:57:56 2019
# Not Valid After : Tue Apr 26 08:57:56 2044
# Fingerprint (SHA-256):
2E:44:10:2A:B5:8C:B8:54:19:45:1C:8E:19:D9:AC:F3:66:2C:AF:BC:61:4B:6A:53:96:0A:30:F7:D0:E2:EB:41
# Fingerprint (SHA1): CF:E9:70:84:0F:E0:73:0F:9D:F6:0C:7F:2C:4B:EE:20:46:34:9C:BB
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TunTrust Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\124\116\061
\067\060\065\006\003\125\004\012\014\056\101\147\145\156\143\145
\040\116\141\164\151\157\156\141\154\145\040\144\145\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\105\154\145\143
\164\162\157\156\151\161\165\145\061\031\060\027\006\003\125\004
\003\014\020\124\165\156\124\162\165\163\164\040\122\157\157\164
\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\124\116\061
\067\060\065\006\003\125\004\012\014\056\101\147\145\156\143\145
\040\116\141\164\151\157\156\141\154\145\040\144\145\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\105\154\145\143
\164\162\157\156\151\161\165\145\061\031\060\027\006\003\125\004
\003\014\020\124\165\156\124\162\165\163\164\040\122\157\157\164
\040\103\101
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\024\023\002\325\342\100\114\222\106\206\026\147\135\264\273
\273\262\153\076\374\023
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\263\060\202\003\233\240\003\002\001\002\002\024\023
\002\325\342\100\114\222\106\206\026\147\135\264\273\273\262\153
\076\374\023\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\060\141\061\013\060\011\006\003\125\004\006\023\002\124
\116\061\067\060\065\006\003\125\004\012\014\056\101\147\145\156
\143\145\040\116\141\164\151\157\156\141\154\145\040\144\145\040
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\105\154
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\145\143\164\162\157\156\151\161\165\145\061\031\060\027\006\003
\125\004\003\014\020\124\165\156\124\162\165\163\164\040\122\157
\157\164\040\103\101\060\036\027\015\061\071\060\064\062\066\060
\070\065\067\065\066\132\027\015\064\064\060\064\062\066\060\070
\065\067\065\066\132\060\141\061\013\060\011\006\003\125\004\006
\023\002\124\116\061\067\060\065\006\003\125\004\012\014\056\101
\147\145\156\143\145\040\116\141\164\151\157\156\141\154\145\040
\144\145\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\105\154\145\143\164\162\157\156\151\161\165\145\061\031\060
\027\006\003\125\004\003\014\020\124\165\156\124\162\165\163\164
\040\122\157\157\164\040\103\101\060\202\002\042\060\015\006\011
\052\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000
\060\202\002\012\002\202\002\001\000\303\315\323\374\275\004\123
\335\014\040\072\325\210\056\005\113\101\365\203\202\176\367\131
\237\236\236\143\350\163\332\366\006\251\117\037\264\371\013\037
\071\214\232\040\320\176\006\324\354\064\331\206\274\165\133\207
\210\360\322\331\324\243\012\262\154\033\353\111\054\076\254\135
\330\224\003\240\354\064\345\060\304\065\175\373\046\115\033\156
\060\124\330\365\200\105\234\071\255\234\311\045\004\115\232\220
\076\116\100\156\212\153\315\051\147\306\314\055\340\164\350\005
\127\012\110\120\372\172\103\332\176\354\133\232\016\142\166\376
\352\235\035\205\162\354\021\273\065\350\037\047\277\301\241\307
\273\110\026\335\126\327\314\116\240\341\271\254\333\325\203\031
\032\205\321\224\227\327\312\243\145\013\363\070\371\002\256\335
\366\147\317\311\077\365\212\054\107\032\231\157\005\015\375\320
\035\202\061\374\051\314\000\130\227\221\114\200\000\034\063\205
\226\057\313\101\302\213\020\204\303\011\044\211\037\265\017\331
\331\167\107\030\222\224\140\134\307\231\003\074\376\367\225\247
\175\120\241\200\302\251\203\255\130\226\125\041\333\206\131\324
\257\306\274\335\201\156\007\333\140\142\376\354\020\156\332\150
\001\364\203\033\251\076\242\133\043\327\144\306\337\334\242\175
\330\113\272\202\322\121\370\146\277\006\106\344\171\052\046\066
\171\217\037\116\231\035\262\217\014\016\034\377\311\135\300\375
\220\020\246\261\067\363\315\072\044\156\264\205\220\277\200\271
\014\214\325\233\326\310\361\126\077\032\200\211\172\251\342\033
\062\121\054\076\362\337\173\366\135\172\051\031\216\345\310\275
\066\161\213\135\114\302\035\077\255\130\242\317\075\160\115\246
\120\230\045\334\043\371\270\130\101\010\161\277\117\270\204\240
\217\000\124\025\374\221\155\130\247\226\073\353\113\226\047\315
\153\242\241\206\254\015\174\124\346\146\114\146\137\220\276\041
\232\002\106\055\344\203\302\200\271\317\113\076\350\177\074\001
\354\217\136\315\177\322\050\102\001\225\212\342\227\075\020\041
\175\366\235\034\305\064\241\354\054\016\012\122\054\022\125\160
\044\075\313\302\024\065\103\135\047\116\276\300\275\252\174\226
\347\374\236\141\255\104\323\000\227\002\003\001\000\001\243\143
\060\141\060\035\006\003\125\035\016\004\026\004\024\006\232\233
\037\123\175\361\365\244\310\323\206\076\241\163\131\264\367\104
\041\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001

\001\377\060\037\006\003\125\035\043\004\030\060\026\200\024\006
\232\233\037\123\175\361\365\244\310\323\206\076\241\163\131\264
\367\104\041\060\016\006\003\125\035\017\001\001\377\004\004\003
\002\001\006\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\003\202\002\001\000\252\005\156\266\335\025\311\277\263
\306\040\366\006\107\260\206\223\045\323\215\271\310\000\077\227
\365\122\047\210\161\311\164\375\353\312\144\333\133\357\036\135
\272\277\321\353\356\134\151\272\026\310\363\271\217\323\066\056
\100\111\007\015\131\336\213\020\260\111\005\342\377\221\077\113
\267\335\002\216\370\201\050\134\314\334\155\257\137\024\234\175
\130\170\015\366\200\011\271\351\016\227\051\031\270\267\353\370
\026\313\125\022\344\306\175\273\304\354\370\265\034\116\076\147
\277\305\137\033\155\155\107\050\252\004\130\141\326\166\277\042
\177\320\007\152\247\144\123\360\227\215\235\200\077\273\301\007
\333\145\257\346\233\062\232\303\124\223\304\034\010\303\104\373
\173\143\021\103\321\152\032\141\152\171\155\220\117\051\216\107
\005\301\022\151\151\326\306\066\061\341\374\372\200\272\134\117
\304\353\267\062\254\370\165\141\027\327\020\031\271\361\322\011
\357\172\102\235\133\132\013\324\306\225\116\052\316\377\007\327
\117\176\030\006\210\361\031\265\331\230\273\256\161\304\034\347
\164\131\130\357\014\211\317\213\037\165\223\032\004\024\222\110
\120\251\353\127\051\000\026\343\066\034\310\370\277\360\063\325
\101\017\304\314\074\335\351\063\103\001\221\020\053\036\321\271
\135\315\062\031\213\217\214\040\167\327\042\304\102\334\204\026
\233\045\155\350\264\125\161\177\260\174\263\323\161\111\271\317
\122\244\004\077\334\075\240\273\257\063\236\012\060\140\216\333
\235\135\224\250\275\140\347\142\200\166\201\203\014\214\314\060
\106\111\342\014\322\250\257\353\141\161\357\347\042\142\251\367
\134\144\154\237\026\214\147\066\047\105\365\011\173\277\366\020
\012\361\260\215\124\103\214\004\272\243\077\357\342\065\307\371
\164\340\157\064\101\320\277\163\145\127\040\371\233\147\172\146
\150\044\116\200\145\275\020\231\006\131\362\145\257\270\306\107
\273\375\220\170\213\101\163\056\257\125\037\334\073\222\162\156
\204\323\320\141\114\015\314\166\127\342\055\205\042\025\066\015
\353\001\235\353\330\353\304\204\231\373\300\014\314\062\350\343
\167\332\203\104\213\236\125\050\300\213\130\323\220\076\116\033
\000\361\025\255\203\053\232
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "TunTrust Root CA"
Issuer: CN=TunTrust Root CA,O=Agence Nationale de Certification Electronique,C=TN
Serial Number:13:02:d5:e2:40:4c:92:46:86:16:67:5d:b4:bb:bb:b2:6b:3e:fc:13
Subject: CN=TunTrust Root CA,O=Agence Nationale de Certification Electronique,C=TN
Not Valid Before: Fri Apr 26 08:57:56 2019

```
# Not Valid After : Tue Apr 26 08:57:56 2044
#
 Fingerprint (SHA-256):
2E:44:10:2A:B5:8C:B8:54:19:45:1C:8E:19:D9:AC:F3:66:2C:AF:BC:61:4B:6A:53:96:0A:30:F7:D0:E2:EB:41
# Fingerprint (SHA1): CF:E9:70:84:0F:E0:73:0F:9D:F6:0C:7F:2C:4B:EE:20:46:34:9C:BB
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TunTrust Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\317\351\160\204\017\340\163\017\235\366\014\177\054\113\356\040
\106\064\234\273
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\205\023\271\220\133\066\134\266\136\270\132\370\340\061\127\264
END
CKA_ISSUER MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\124\116\061
\067\060\065\006\003\125\004\012\014\056\101\147\145\156\143\145
\040\116\141\164\151\157\156\141\154\145\040\144\145\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\105\154\145\143
\164\162\157\156\151\161\165\145\061\031\060\027\006\003\125\004
\003\014\020\124\165\156\124\162\165\163\164\040\122\157\157\164
\040\103\101
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\024\023\002\325\342\100\114\222\106\206\026\147\135\264\273
\273\262\153\076\374\023
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "HARICA TLS RSA Root CA 2021"
#
# Issuer: CN=HARICA TLS RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Serial Number:39:ca:93:1c:ef:43:f3:c6:8e:93:c7:f4:64:89:38:7e
# Subject: CN=HARICA TLS RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 10:55:38 2021
# Not Valid After : Mon Feb 13 10:55:37 2045
# Fingerprint (SHA-256):
D9:5D:0E:8E:DA:79:52:5B:F9:BE:B1:1B:14:D2:10:0D:32:94:98:5F:0C:62:D9:FA:BD:9C:D9:99:EC:CB:7B:1D
# Fingerprint (SHA1): 02:2D:05:82:FA:88:CE:14:0C:06:79:DE:7F:14:10:E9:45:D7:A5:6D
CKA_CLASS CK_OBJECT_CLASS
```

CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA TLS RSA Root CA 2021"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\154\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\044\060\042\006\003\125\004
\003\014\033\110\101\122\111\103\101\040\124\114\123\040\122\123
\101\040\122\157\157\164\040\103\101\040\062\060\062\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\154\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\044\060\042\006\003\125\004
\003\014\033\110\101\122\111\103\101\040\124\114\123\040\122\123
\101\040\122\157\157\164\040\103\101\040\062\060\062\061
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\071\312\223\034\357\103\363\306\216\223\307\364\144\211
\070\176
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\244\060\202\003\214\240\003\002\001\002\002\020\071
\312\223\034\357\103\363\306\216\223\307\364\144\211\070\176\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\154
\061\013\060\011\006\003\125\004\006\023\002\107\122\061\067\060
\065\006\003\125\004\012\014\056\110\145\154\154\145\156\151\143
\040\101\143\141\144\145\155\151\143\040\141\156\144\040\122\145
\163\145\141\162\143\150\040\111\156\163\164\151\164\165\164\151
\157\156\163\040\103\101\061\044\060\042\006\003\125\004\003\014
\033\110\101\122\111\103\101\040\124\114\123\040\122\123\101\040
\122\157\157\164\040\103\101\040\062\060\062\061\060\036\027\015
\062\061\060\062\061\071\061\060\065\065\063\070\132\027\015\064
\065\060\062\061\063\061\060\065\065\063\067\132\060\154\061\013
\060\011\006\003\125\004\006\023\002\107\122\061\067\060\065\006
\003\125\004\012\014\056\110\145\154\154\145\156\151\143\040\101
\143\141\144\145\155\151\143\040\141\156\144\040\122\145\163\145
\141\162\143\150\040\111\156\163\164\151\164\165\164\151\157\156
\163\040\103\101\061\044\060\042\006\003\125\004\003\014\033\110

\101\122\111\103\101\040\124\114\123\040\122\123\101\040\122\157
\157\164\040\103\101\040\062\060\062\061\060\202\002\042\060\015
\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\002
\017\000\060\202\002\012\002\202\002\001\000\213\302\347\257\145
\233\005\147\226\311\015\044\271\320\016\144\374\316\342\044\030
\054\204\177\167\121\313\004\021\066\270\136\355\151\161\247\236
\344\045\011\227\147\301\107\302\317\221\026\066\142\075\070\004
\341\121\202\377\254\322\264\151\335\056\354\021\243\105\356\153
\153\073\114\277\214\215\244\036\235\021\271\351\070\371\172\016
\014\230\342\043\035\321\116\143\324\347\270\101\104\373\153\257
\153\332\037\323\305\221\210\133\244\211\222\321\201\346\214\071
\130\240\326\151\103\251\255\230\122\130\156\333\012\373\153\317
\150\372\343\244\136\072\105\163\230\007\352\137\002\162\336\014
\245\263\237\256\251\035\267\035\263\374\212\131\347\156\162\145
\255\365\060\224\043\007\363\202\026\113\065\230\234\123\273\057
\312\344\132\331\307\215\035\374\230\231\373\054\244\202\153\360
\052\037\216\013\137\161\134\134\256\102\173\051\211\201\313\003
\243\231\312\210\236\013\100\011\101\063\333\346\130\172\375\256
\231\160\300\132\017\326\023\206\161\057\166\151\374\220\335\333
\055\156\321\362\233\365\032\153\236\157\025\214\172\360\113\050
\240\042\070\200\044\154\066\244\073\362\060\221\363\170\023\317
\301\077\065\253\361\035\021\043\265\103\042\236\001\222\267\030
\002\345\021\321\202\333\025\000\314\141\067\301\052\174\232\341
\320\272\263\120\106\356\202\254\235\061\370\373\043\342\003\000
\110\160\243\011\046\171\025\123\140\363\070\134\255\070\352\201
\000\143\024\271\063\136\335\013\333\240\105\007\032\063\011\370
\115\264\247\002\246\151\364\302\131\005\210\145\205\126\256\113
\313\340\336\074\175\055\032\310\351\373\037\243\141\112\326\052
\023\255\167\114\032\030\233\221\017\130\330\006\124\305\227\370
\252\077\040\212\246\205\246\167\366\246\374\034\342\356\156\224
\063\052\203\120\204\012\345\117\206\370\120\105\170\000\201\353
\133\150\343\046\215\314\173\134\121\364\024\054\100\276\032\140
\035\172\162\141\035\037\143\055\210\252\316\242\105\220\010\374
\153\276\263\120\052\132\375\250\110\030\106\326\220\100\222\220
\012\204\136\150\061\370\353\355\015\323\035\306\175\231\030\125
\126\047\145\056\215\105\305\044\354\316\343\002\003\001\000\001
\243\102\060\100\060\017\006\003\125\035\023\001\001\377\004\005
\060\003\001\001\377\060\035\006\003\125\035\016\004\026\004\024
\012\110\043\246\140\244\222\012\063\352\223\133\305\127\352\045
\115\275\022\356\060\016\006\003\125\035\017\001\001\377\004\004
\003\002\001\206\060\015\006\011\052\206\110\206\367\015\001\001
\013\005\000\003\202\002\001\000\076\220\110\252\156\142\025\045
\146\173\014\325\214\213\211\235\327\355\116\007\357\234\320\024
\137\136\120\275\150\226\220\244\024\021\252\150\155\011\065\071
\100\011\332\364\011\054\064\245\173\131\204\111\051\227\164\310
\007\036\107\155\362\316\034\120\046\343\236\075\100\123\077\367
\177\226\166\020\305\106\245\320\040\113\120\364\065\073\030\364
\125\152\101\033\107\006\150\074\273\011\010\142\331\137\125\102

\252\254\123\205\254\225\126\066\126\253\344\005\214\305\250\332
\037\243\151\275\123\017\304\377\334\312\343\176\362\114\210\206
\107\106\032\363\000\365\200\221\242\334\103\102\224\233\040\360
\321\315\262\353\054\123\302\123\170\112\117\004\224\101\232\217
\047\062\301\345\111\031\277\361\362\302\213\250\012\071\061\050
\264\175\142\066\054\115\354\037\063\266\176\167\155\176\120\360
\237\016\327\021\217\317\030\305\343\047\376\046\357\005\235\317
\317\067\305\320\173\332\073\260\026\204\014\072\223\326\276\027
\333\017\076\016\031\170\011\307\251\002\162\042\113\367\067\166
\272\165\304\205\003\132\143\325\261\165\005\302\271\275\224\255
\214\025\231\247\223\175\366\305\363\252\164\317\004\205\224\230
\000\364\342\371\312\044\145\277\340\142\257\310\305\372\262\311
\236\126\110\332\171\375\226\166\025\276\243\216\126\304\263\064
\374\276\107\364\301\264\250\374\325\060\210\150\356\313\256\311
\143\304\166\276\254\070\030\341\136\134\317\256\072\042\121\353
\321\213\263\363\053\063\007\124\207\372\264\262\023\173\272\123
\004\142\001\235\361\300\117\356\341\072\324\213\040\020\372\002
\127\346\357\301\013\267\220\106\234\031\051\214\334\157\240\112
\151\151\224\267\044\145\240\377\254\077\316\001\373\041\056\375
\150\370\233\362\245\317\061\070\134\025\252\346\227\000\301\337
\132\245\247\071\252\351\204\177\074\121\250\072\331\224\133\214
\277\117\010\161\345\333\250\134\324\322\246\376\000\243\306\026
\307\017\350\200\316\034\050\144\164\031\010\323\102\343\316\000
\135\177\261\334\023\260\341\005\313\321\040\252\206\164\236\071
\347\221\375\377\133\326\367\255\246\057\003\013\155\343\127\124
\353\166\123\030\215\021\230\272
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "HARICA TLS RSA Root CA 2021"
Issuer: CN=HARICA TLS RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
Serial Number:39:ca:93:1c:ef:43:f3:c6:8e:93:c7:f4:64:89:38:7e
Subject: CN=HARICA TLS RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
Not Valid Before: Fri Feb 19 10:55:38 2021
Not Valid After : Mon Feb 13 10:55:37 2045
Fingerprint (SHA-256):
D9:5D:0E:8E:DA:79:52:5B:F9:BE:B1:1B:14:D2:10:0D:32:94:98:5F:0C:62:D9:FA:BD:9C:D9:99:EC:CB:7B:1D
Fingerprint (SHA1): 02:2D:05:82:FA:88:CE:14:0C:06:79:DE:7F:14:10:E9:45:D7:A5:6D
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE
 CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA TLS RSA Root CA 2021"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL

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\002\055\005\202\372\210\316\024\014\006\171\336\177\024\020\351
\105\327\245\155
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\145\107\233\130\206\335\054\360\374\242\204\037\036\226\304\221
END
CKA_ISSUER MULTILINE_OCTAL
\060\154\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\044\060\042\006\003\125\004
\003\014\033\110\101\122\111\103\101\040\124\114\123\040\122\123
\101\040\122\157\157\164\040\103\101\040\062\060\062\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\071\312\223\034\357\103\363\306\216\223\307\364\144\211
\070\176
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION
 CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "HARICA TLS ECC Root CA 2021"
#
# Issuer: CN=HARICA TLS ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Serial Number:67:74:9d:8d:77:d8:3b:6a:db:22:f4:ff:59:e2:bf:ce
# Subject: CN=HARICA TLS ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 11:01:10 2021
# Not Valid After : Mon Feb 13 11:01:09 2045
# Fingerprint (SHA-256):
3F:99:CC:47:4A:CF:CE:4D:FE:D5:87:94:66:5E:47:8D:15:47:73:9F:2E:78:0F:1B:B4:CA:9B:13:30:97:D4:01
# Fingerprint (SHA1): BC:B0:C1:9D:E9:98:92:70:19:38:57:E9:8D:A7:B4:5D:6E:EE:01:48
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA TLS ECC Root CA 2021"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\154\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\044\060\042\006\003\125\004
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\003\014\033\110\101\122\111\103\101\040\124\114\123\040\105\103
\103\040\122\157\157\164\040\103\101\040\062\060\062\061
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\154\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\044\060\042\006\003\125\004
\003\014\033\110\101\122\111\103\101\040\124\114\123\040\105\103
\103\040\122\157\157\164\040\103\101\040\062\060\062\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\147\164\235\215\167\330\073\152\333\042\364\377\131\342
\277\316
END
CKA_VALUE
 MULTILINE_OCTAL
\060\202\002\124\060\202\001\333\240\003\002\001\002\002\020\147
\164\235\215\167\330\073\152\333\042\364\377\131\342\277\316\060
\012\006\010\052\206\110\316\075\004\003\003\060\154\061\013\060
\011\006\003\125\004\006\023\002\107\122\061\067\060\065\006\003
\125\004\012\014\056\110\145\154\154\145\156\151\143\040\101\143
\141\144\145\155\151\143\040\141\156\144\040\122\145\163\145\141
\162\143\150\040\111\156\163\164\151\164\165\164\151\157\156\163
\040\103\101\061\044\060\042\006\003\125\004\003\014\033\110\101
\122\111\103\101\040\124\114\123\040\105\103\103\040\122\157\157
\164\040\103\101\040\062\060\062\061\060\036\027\015\062\061\060
\062\061\071\061\061\060\061\061\060\132\027\015\064\065\060\062
\061\063\061\061\060\061\060\071\132\060\154\061\013\060\011\006
\003\125\004\006\023\002\107\122\061\067\060\065\006\003\125\004
\012\014\056\110\145\154\154\145\156\151\143\040\101\143\141\144
\145\155\151\143\040\141\156\144\040\122\145\163\145\141\162\143
\150\040\111\156\163\164\151\164\165\164\151\157\156\163\040\103
\101\061\044\060\042\006\003\125\004\003\014\033\110\101\122\111
\103\101\040\124\114\123\040\105\103\103\040\122\157\157\164\040
\103\101\040\062\060\062\061\060\166\060\020\006\007\052\206\110
\316\075\002\001\006\005\053\201\004\000\042\003\142\000\004\070
\010\376\261\240\226\322\172\254\257\111\072\320\300\340\303\073
\050\252\361\162\155\145\000\107\210\204\374\232\046\153\252\113
\272\154\004\012\210\136\027\362\125\207\374\060\260\064\342\064
\130\127\032\204\123\351\060\331\251\362\226\164\303\121\037\130
\111\061\314\230\116\140\021\207\165\323\162\224\220\117\233\020
\045\052\250\170\055\276\220\101\130\220\025\162\247\241\267\243
\102\060\100\060\017\006\003\125\035\023\001\001\377\004\005\060
\003\001\001\377\060\035\006\003\125\035\016\004\026\004\024\311

\033\123\201\022\376\004\325\026\321\252\274\232\157\267\240\225
\031\156\312\060\016\006\003\125\035\017\001\001\377\004\004\003
\002\001\206\060\012\006\010\052\206\110\316\075\004\003\003\003
\147\000\060\144\002\060\021\336\256\370\334\116\210\260\251\360
\042\255\302\121\100\357\140\161\055\356\217\002\304\135\003\160
\111\244\222\352\305\024\210\160\246\323\015\260\252\312\054\100
\234\373\351\202\156\232\002\060\053\107\232\007\306\321\302\201
\174\312\013\226\030\101\033\243\364\060\011\236\265\043\050\015
\237\024\266\074\123\242\114\006\151\175\372\154\221\306\052\111
\105\346\354\267\023\341\072\154
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "HARICA TLS ECC Root CA 2021"
Issuer: CN=HARICA TLS ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
Serial Number:67:74:9d:8d:77:d8:3b:6a:db:22:f4:ff:59:e2:bf:ce
Subject: CN=HARICA TLS ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
Not Valid Before: Fri Feb 19 11:01:10 2021
#
Not Valid After : Mon Feb 13 11:01:09 2045
Fingerprint (SHA-256):
3F:99:CC:47:4A:CF:CE:4D:FE:D5:87:94:66:5E:47:8D:15:47:73:9F:2E:78:0F:1B:B4:CA:9B:13:30:97:D4:01
Fingerprint (SHA1): BC:B0:C1:9D:E9:98:92:70:19:38:57:E9:8D:A7:B4:5D:6E:EE:01:48
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA TLS ECC Root CA 2021"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\274\260\301\235\351\230\222\160\031\070\127\351\215\247\264\135
\156\356\001\110
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\256\367\114\345\146\065\321\267\233\214\042\223\164\323\113\260
END
CKA_ISSUER MULTILINE_OCTAL
\060\154\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\044\060\042\006\003\125\004
\003\014\033\110\101\122\111\103\101\040\124\114\123\040\105\103
\103\040\122\157\157\164\040\103\101\040\062\060\062\061
END
CKA_SERIAL_NUMBER

```
 MULTILINE_OCTAL
\002\020\147\164\235\215\167\330\073\152\333\042\364\377\131\342
\277\316
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "HARICA Client RSA Root CA 2021"
#
# Issuer: CN=HARICA Client RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Serial Number:55:52:f8:1e:db:1b:24:2c:9e:bb:96:18:cd:02:28:3e
# Subject: CN=HARICA Client RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 10:58:46 2021
# Not Valid After : Mon Feb 13 10:58:45 2045
# Fingerprint (SHA-256):
1B:E7:AB:E3:06:86:B1:63:48:AF:D1:C6:1B:68:66:A0:EA:7F:48:21:E6:7D:5E:8A:F9:37:CF:80:11:BC:75:0D
# Fingerprint (SHA1):
 46:C6:90:0A:77:3A:B6:BC:F4:65:AD:AC:FC:E3:F7:07:00:6E:DE:6E
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA Client RSA Root CA 2021"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\157\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\047\060\045\006\003\125\004
\003\014\036\110\101\122\111\103\101\040\103\154\151\145\156\164
\040\122\123\101\040\122\157\157\164\040\103\101\040\062\060\062
\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\157\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\047\060\045\006\003\125\004
\003\014\036\110\101\122\111\103\101\040\103\154\151\145\156\164
\040\122\123\101\040\122\157\157\164\040\103\101\040\062\060\062
\061
END
```

CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\125\122\370\036\333\033\044\054\236\273\226\030\315\002
\050\076
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\252\060\202\003\222\240\003\002\001\002\002\020\125
\122\370\036\333\033\044\054\236\273\226\030\315\002\050\076\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\157
\061\013\060\011\006\003\125\004\006\023\002\107\122\061\067\060
\065\006\003\125\004\012\014\056\110\145\154\154\145\156\151\143
\040\101\143\141\144\145\155\151\143\040\141\156\144\040\122\145
\163\145\141\162\143\150\040\111\156\163\164\151\164\165\164\151
\157\156\163\040\103\101\061\047\060\045\006\003\125\004\003\014
\036\110\101\122\111\103\101\040\103\154\151\145\156\164\040\122
\123\101\040\122\157\157\164\040\103\101\040\062\060\062\061\060
\036\027\015\062\061\060\062\061\071\061\060\065\070\064\066\132
\027\015\064\065\060\062\061\063\061\060\065\070\064\065\132\060
\157\061\013\060\011\006\003\125\004\006\023\002\107\122\061\067
\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156\151
\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040\122
\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165\164
\151\157\156\163\040\103\101\061\047\060\045\006\003\125\004\003
\014\036\110\101\122\111\103\101\040\103\154\151\145\156\164\040
\122\123\101\040\122\157\157\164\040\103\101\040\062\060\062\061
\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001
\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001
\000\201\333\127\102\220\054\164\065\364\370\270\164\031\115\253
\011\132\167\105\201\163\142\260\065\237\370\320\267\063\000\207
\023\266\226\253\016\124\022\060\007\274\233\267\110\327\321\031
\203\256\216\330\251\361\251\000\204\260\214\136\236\350\014\217
\124\151\277\366\324\010\117\046\160\376\030\101\143\032\263\062
\213\100\370\007\253\127\061\360\306\026\166\147\232\264\335\057
\362\321\153\305\320\222\204\221\161\156\017\056\143\351\037\123
\244\335\122\023\314\011\203\051\201\014\305\123\165\104\261\016
\147\123\030\320\303\037\210\113\237\224\044\264\051\274\273\350
\116\375\157\322\025\035\111\334\215\160\362\021\032\040\121\125
\021\272\210\157\304\367\120\171\326\252\061\342\204\075\136\062
\310\167\052\120\161\345\013\057\351\266\352\357\253\012\063\071
\016\375\217\245\147\103\202\216\230\151\011\011\033\100\315\070
\147\107\352\311\354\227\161\022\336\044\365\162\074\321\367\103
\114\046\367\220\262\211\351\105\113\125\075\061\005\172\101\342
\225\272\103\300\027\305\266\205\075\031\215\144\160\363\133\254
\315\237\323\051\165\207\113\225\147\152\246\370\321\335\274\220
\206\211\103\051\251\067\133\365\135\260\046\132\123\102\166\220
\053\317\236\126\154\053\124\317\134\232\145\337\133\213\110\140
\070\174\373\305\013\317\166\004\143\002\063\052\175\365\203\147
\347\372\306\103\375\053\017\324\046\057\167\244\062\301\044\352

\144\235\277\263\070\161\061\104\362\107\270\242\146\101\241\373
\233\173\274\307\106\152\165\277\132\242\214\350\152\104\301\270
\226\265\300\062\010\055\173\164\065\163\262\312\306\376\257\021
\162\030\366\347\310\302\317\245\052\352\173\326\131\350\174\240
\262\152\100\011\151\016\245\226\333\321\000\271\361\210\156\066
\360\210\262\235\361\122\362\303\174\277\060\211\074\012\151\371
\042\244\145\341\233\340\164\306\261\205\227\226\054\256\224\217
\120\246\071\022\037\276\107\362\201\170\323\165\066\236\175\132
\040\227\342\122\256\231\237\306\174\233\146\363\376\330\317\356
\275\227\006\035\055\205\334\076\066\123\226\173\040\272\350\310
\341\255\226\142\076\021\174\263\000\204\236\247\114\161\253\112
\067\002\003\001\000\001\243\102\060\100\060\017\006\003\125\035
\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125
\035\016\004\026\004\024\240\326\007\075\136\044\367\173\240\104
\056\044\122\015\031\252\053\004\221\247\060\016\006\003\125\035
\017\001\001\377\004\004\003\002\001\206\060\015\006\011\052\206
\110\206\367\015\001\001\013\005\000\003\202\002\001\000\015\107
\371\011\146\061\122\354\171\356\302\250\362\150\076\355\226\105
\313\072\246\230\143\077\352\053\115\116\003\320\034\202\341\313
\323\345\326\253\133\147\050\274\235\376\014\231\012\200\125\247
\316\033\043\141\015\260\127\360\376\340\312\276\346\220\333\203
\054\276\203\216\364\171\266\376\320\015\102\247\130\037\151\352
\201\365\005\245\376\106\150\353\154\170\311\340\352\347\346\336
\061\305\322\325\054\202\143\050\235\135\250\032\176\210\346\347
\053\361\054\325\320\005\236\334\055\275\067\146\324\004\242\247
\255\277\072\302\250\073\255\377\215\235\063\340\271\232\204\241
\207\037\166\364\202\164\327\016\371\060\110\076\133\210\076\252
\134\153\326\057\014\350\216\163\302\030\221\203\071\266\146\132
\320\037\140\047\135\115\343\366\072\015\146\120\234\170\173\253
\363\023\020\256\017\057\253\350\144\263\030\040\235\106\065\144
\045\163\352\233\020\134\130\065\211\261\106\110\247\364\254\324
\035\236\133\314\251\245\032\023\117\044\120\252\331\033\155\261
\100\373\235\335\130\164\304\302\157\024\162\354\333\065\237\270
\124\165\105\303\246\310\032\050\065\072\256\145\362\251\230\316
\257\133\311\070\214\061\073\177\314\334\226\375\342\133\326\320
\131\364\166\272\013\313\117\203\020\307\100\320\035\140\351\052
\345\110\130\167\014\105\151\276\031\161\004\044\342\343\044\037
\112\310\301\076\231\365\226\230\070\110\045\241\025\260\033\327
\342\204\030\133\366\161\065\232\150\173\100\314\030\134\014\044
\235\324\225\365\231\252\106\352\256\254\277\364\024\031\044\350
\214\354\343\365\274\006\150\212\052\014\005\137\012\227\165\247
\334\176\300\375\327\172\030\337\060\321\070\113\037\260\230\160
\277\314\174\163\360\156\304\061\245\244\227\035\254\277\316\154
\041\112\276\047\043\147\363\006\126\201\012\221\216\266\341\003
\005\063\054\332\064\010\115\116\120\043\255\037\245\305\324\172
\376\352\011\354\247\050\140\213\106\174\265\352\233\335\117\371
\347\153\025\306\210\317\103\333\345\047\334\004\126\156\157\106
\025\361\126\055\350\134\014\163\303\043\201\070\040\313\311\014

```
\151\317\054\253\073\204\140\063\031\122\375\151\024\063
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "HARICA Client RSA Root CA 2021"
# Issuer: CN=HARICA Client RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Serial Number:55:52:f8:1e:db:1b:24:2c:9e:bb:96:18:cd:02:28:3e
# Subject: CN=HARICA Client RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 10:58:46 2021
# Not Valid After : Mon Feb 13 10:58:45 2045
# Fingerprint (SHA-256):
1B:E7:AB:E3:06:86:B1:63:48:AF:D1:C6:1B:68:66:A0:EA:7F:48:21:E6:7D:5E:8A:F9:37:CF:80:11:BC:75:0D
#
 Fingerprint (SHA1): 46:C6:90:0A:77:3A:B6:BC:F4:65:AD:AC:FC:E3:F7:07:00:6E:DE:6E
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA Client RSA Root CA 2021"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\106\306\220\012\167\072\266\274\364\145\255\254\374\343\367\007
\000\156\336\156
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\157\355\134\327\210\314\070\251\334\351\335\331\135\333\330\355
END
CKA_ISSUER MULTILINE_OCTAL
\060\157\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\047\060\045\006\003\125\004
\003\014\036\110\101\122\111\103\101\040\103\154\151\145\156\164
\040\122\123\101\040\122\157\157\164\040\103\101\040\062\060\062
\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\125\122\370\036\333\033\044\054\236\273\226\030\315\002
\050\076
END
CKA_TRUST_SERVER_AUTH
 CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
```

```
#
# Certificate "HARICA Client ECC Root CA 2021"
#
# Issuer: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Serial Number:31:68:d9:d8:e1:62:57:1e:d2:19:44:88:e6:10:7d:f0
# Subject: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 11:03:34 2021
# Not Valid After : Mon Feb 13 11:03:33 2045
# Fingerprint (SHA-256):
8D:D4:B5:37:3C:B0:DE:36:76:9C:12:33:92:80:D8:27:46:B3:AA:6C:D4:26:E7:97:A3:1B:AB:E4:27:9C:F0:0B
# Fingerprint (SHA1): BE:64:D3:DA:14:4B:D2:6B:CD:AF:8F:DB:A6:A6:72:F8:DE:26:F9:00
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL
 CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA Client ECC Root CA 2021"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\157\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\047\060\045\006\003\125\004
\003\014\036\110\101\122\111\103\101\040\103\154\151\145\156\164
\040\105\103\103\040\122\157\157\164\040\103\101\040\062\060\062
\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\157\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\047\060\045\006\003\125\004
\003\014\036\110\101\122\111\103\101\040\103\154\151\145\156\164
\040\105\103\103\040\122\157\157\164\040\103\101\040\062\060\062
\061
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\061\150\331\330\341\142\127\036\322\031\104\210\346\020
\175\360
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\132\060\202\001\341\240\003\002\001\002\002\020\061
\150\331\330\341\142\127\036\322\031\104\210\346\020\175\360\060
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\012\006\010\052\206\110\316\075\004\003\003\060\157\061\013\060
\011\006\003\125\004\006\023\002\107\122\061\067\060\065\006\003
\125\004\012\014\056\110\145\154\154\145\156\151\143\040\101\143
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\162\143\150\040\111\156\163\164\151\164\165\164\151\157\156\163
\040\103\101\061\047\060\045\006\003\125\004\003\014\036\110\101
\122\111\103\101\040\103\154\151\145\156\164\040\105\103\103\040
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\062\061\060\062\061\071\061\061\060\063\063\064\132\027\015\064
\065\060\062\061\063\061\061\060\063\063\063\132\060\157\061\013
\060\011\006\003\125\004\006\023\002\107\122\061\067\060\065\006
\003\125\004\012\014\056\110\145\154\154\145\156\151\143\040\101
\143\141\144\145\155\151\143\040\141\156\144\040\122\145\163\145
\141\162\143\150\040\111\156\163\164\151\164\165\164\151\157\156
\163\040\103\101\061\047\060\045\006\003\125\004\003\014\036\110
\101\122\111\103\101\040\103\154\151\145\156\164\040\105\103\103
\040\122\157\157\164\040\103\101\040\062\060\062\061\060\166\060
\020\006\007\052\206\110\316\075\002\001\006\005\053\201\004\000
\042\003\142\000\004\007\030\255\225\226\224\320\134\017\202\367
\052\100\372\002\311\311\075\066\246\243\004\152\301\155\225\001
\210\140\022\124\154\134\242\053\156\023\072\210\225\014\034\046
\206\066\112\211\031\267\030\336\073\350\250\120\037\312\337\133
\277\111\200\025\333\343\060\341\035\132\307\052\212\001\007\376
\155\054\064\357\050\050\227\274\301\371\127\206\225\213\065\317
\236\132\321\150\225\243\102\060\100\060\017\006\003\125\035\023
\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125\035
\016\004\026\004\024\122\010\322\276\062\201\045\375\365\032\227
\354\116\137\032\273\123\315\220\255\060\016\006\003\125\035\017
\001\001\377\004\004\003\002\001\206\060\012\006\010\052\206\110
\316\075\004\003\003\003\147\000\060\144\002\060\114\061\105\106
\117\250\346\276\303\167\262\032\030\113\055\210\173\130\346\253
\224\153\104\003\260\027\377\337\202\163\104\121\054\375\223\035
\006\173\024\322\211\354\100\014\357\041\001\056\002\060\057\311
\056\132\154\054\035\331\225\340\236\260\271\134\122\174\366\370
\070\312\056\361\324\035\362\242\111\242\225\370\301\130\136\117
\376\163\012\357\061\260\253\043\130\023\214\213\336\073
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "HARICA Client ECC Root CA 2021"
Issuer: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and
 Research Institutions CA,C=GR
Serial Number:31:68:d9:d8:e1:62:57:1e:d2:19:44:88:e6:10:7d:f0
Subject: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
Not Valid Before: Fri Feb 19 11:03:34 2021

```
# Not Valid After : Mon Feb 13 11:03:33 2045
# Fingerprint (SHA-256):
8D:D4:B5:37:3C:B0:DE:36:76:9C:12:33:92:80:D8:27:46:B3:AA:6C:D4:26:E7:97:A3:1B:AB:E4:27:9C:F0:0B
# Fingerprint (SHA1): BE:64:D3:DA:14:4B:D2:6B:CD:AF:8F:DB:A6:A6:72:F8:DE:26:F9:00
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA Client ECC Root CA 2021"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\276\144\323\332\024\113\322\153\315\257\217\333\246\246\162\370
\336\046\371\000
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\255\270\120\246\251\202\172\154\075\032\252\244\322\143\244\104
END
CKA_ISSUER MULTILINE_OCTAL
\060\157\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\047\060\045\006\003\125\004
\003\014\036\110\101\122\111\103\101\040\103\154\151\145\156\164
\040\105\103\103\040\122\157\157\164\040\103\101\040\062\060\062
\061
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\061\150\331\330\341\142\127\036\322\031\104\210\346\020
\175\360
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Autoridad de Certificacion Firmaprofesional CIF A62634068"
#
# Issuer: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Serial Number:1b:70:e9:d2:ff:ae:6c:71
# Subject: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Not Valid Before:
 Tue Sep 23 15:22:07 2014
# Not Valid After : Mon May 05 15:22:07 2036
# Fingerprint (SHA-256):
57:DE:05:83:EF:D2:B2:6E:03:61:DA:99:DA:9D:F4:64:8D:EF:7E:E8:44:1C:3B:72:8A:FA:9B:CD:E0:F9:B2:6A
# Fingerprint (SHA1): 0B:BE:C2:27:22:49:CB:39:AA:DB:35:5C:53:E3:8C:AE:78:FF:B6:FE
```

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridad de Certificacion Firmaprofesional CIF A62634068"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\102\060\100\006\003\125\004\003\014\071\101\165\164\157\162\151
\144\141\144\040\144\145\040\103\145\162\164\151\146\151\143\141
\143\151\157\156\040\106\151\162\155\141\160\162\157\146\145\163
\151\157\156\141\154\040\103\111\106\040\101\066\062\066\063\064
\060\066\070
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\102\060\100\006\003\125\004\003\014\071\101\165\164\157\162\151
\144\141\144\040\144\145\040\103\145\162\164\151\146\151\143\141
\143\151\157\156\040\106\151\162\155\141\160\162\157\146\145\163
\151\157\156\141\154\040\103\111\106\040\101\066\062\066\063\064
\060\066\070
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\010\033\160\351\322\377\256\154\161
END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\024\060\202\003\374\240\003\002\001\002\002\010\033
\160\351\322\377\256\154\161\060\015\006\011\052\206\110\206\367
\015\001\001\013\005\000\060\121\061\013\060\011\006\003\125\004
\006\023\002\105\123\061\102\060\100\006\003\125\004\003\014\071
\101\165\164\157\162\151\144\141\144\040\144\145\040\103\145\162
\164\151\146\151\143\141\143\151\157\156\040\106\151\162\155\141
\160\162\157\146\145\163\151\157\156\141\154\040\103\111\106\040
\101\066\062\066\063\064\060\066\070\060\036\027\015\061\064\060
\071\062\063\061\065\062\062\060\067\132\027\015\063\066\060\065
\060\065\061\065\062\062\060\067\132\060\121\061\013\060\011\006
\003\125\004\006\023\002\105\123\061\102\060\100\006\003\125\004
\003\014\071\101\165\164\157\162\151\144\141\144\040\144\145\040
\103\145\162\164\151\146\151\143\141\143\151\157\156\040\106\151
\162\155\141\160\162\157\146\145\163\151\157\156\141\154\040\103
\111\106\040\101\066\062\066\063\064\060\066\070\060\202\002\042
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\002\017\000\060\202\002\012\002\202\002\001\000\312\226\153
\216\352\370\373\361\242\065\340\177\114\332\340\303\122\327\175
\266\020\310\002\136\263\103\052\304\117\152\262\312\034\135\050
\232\170\021\032\151\131\127\257\265\040\102\344\213\017\346\337

\133\246\003\222\057\365\021\344\142\327\062\161\070\331\004\014
\161\253\075\121\176\017\007\337\143\005\134\351\277\224\157\301
\051\202\300\264\332\121\260\301\074\273\255\067\112\134\312\361
\113\066\016\044\253\277\303\204\167\375\250\120\364\261\347\306
\057\322\055\131\215\172\012\116\226\151\122\002\252\066\230\354
\374\372\024\203\014\067\037\311\222\067\177\327\201\055\345\304
\271\340\076\064\376\147\364\076\146\321\323\364\100\317\136\142
\064\017\160\006\076\040\030\132\316\367\162\033\045\154\223\164
\024\223\243\163\261\016\252\207\020\043\131\137\040\005\031\107
\355\150\216\222\022\312\135\374\326\053\262\222\074\040\317\341
\137\257\040\276\240\166\177\166\345\354\032\206\141\063\076\347
\173\264\077\240\017\216\242\271\152\157\271\207\046\157\101\154
\210\246\120\375\152\143\013\365\223\026\033\031\217\262\355\233
\233\311\220\365\001\014\337\031\075\017\076\070\043\311\057\217
\014\321\002\376\033\125\326\116\320\215\074\257\117\244\363\376
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\147\364\030\026\223\072\374\107\330\321\170\226\061\037\272\053
\014\137\135\231\255\143\211\132\044\040\166\330\337\375\253\116
\246\042\252\235\136\346\047\212\175\150\051\243\347\212\270\332
\021\273\027\055\231\235\023\044\106\367\305\342\330\237\216\177
\307\217\164\155\132\262\350\162\365\254\356\044\020\255\057\024
\332\377\055\232\106\161\107\276\102\337\273\001\333\364\177\323
\050\217\061\131\133\323\311\002\246\264\122\312\156\227\373\103
\305\010\046\157\212\364\273\375\237\050\252\015\325\105\363\023
\072\035\330\300\170\217\101\147\074\036\224\144\256\173\013\305
\350\331\001\210\071\032\227\206\144\101\325\073\207\014\156\372
\017\306\275\110\024\277\071\115\324\236\101\266\217\226\035\143
\226\223\331\225\006\170\061\150\236\067\006\073\200\211\105\141
\071\043\307\033\104\243\025\345\034\370\222\060\273\002\003\001
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\026\004\024\145\315\353\253\065\036\000\076\176\325\164\300\034
\264\163\107\016\032\144\057\060\022\006\003\125\035\023\001\001
\377\004\010\060\006\001\001\377\002\001\001\060\201\246\006\003
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\040\000\060\201\217\060\057\006\010\053\006\001\005\005\007\002
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\211\144\355\217\164\056\106\034\273\250\370\370\013\035\203\266
\072\247\350\105\212\007\267\340\076\040\313\341\010\333\023\010

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\030\054\175\226\370\335\242\145\103\160\223\220\025\272\220\337
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\172\362\367\240\340\304\217\213\170\265\073\130\245\043\216\117
\125\376\066\073\340\014\267\312\052\060\101\040\264\200\315\256
\374\166\146\163\250\256\156\341\174\332\003\350\224\040\346\042
\243\320\037\220\135\040\123\024\046\127\332\124\227\337\026\104
\020\001\036\210\146\217\162\070\223\335\040\267\064\276\327\361
\356\143\216\107\171\050\006\374\363\131\105\045\140\042\063\033
\243\137\250\272\052\332\032\075\315\100\352\214\356\005\025\225
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\217\102\332\121\325\234\345\023\150\161\105\103\213\236\013\041
\074\113\134\005\334\032\237\230\216\332\275\042\236\162\315\255
\012\313\314\243\147\233\050\164\304\233\327\032\074\004\130\246
\202\235\255\307\173\157\377\200\226\351\370\215\152\275\030\220
\035\377\111\032\220\122\067\223\057\074\002\135\202\166\013\121
\347\026\307\127\370\070\371\247\315\233\042\124\357\143\260\025
\155\123\145\003\112\136\112\240\262\247\216\111\000\131\070\325
\307\364\200\144\365\156\225\120\270\021\176\025\160\070\112\260
\177\320\304\062\160\300\031\377\311\070\055\024\054\146\364\102
\104\346\125\166\033\200\025\127\377\300\247\247\252\071\252\330
\323\160\320\056\272\353\224\152\372\137\064\206\347\142\265\375
\212\360\060\205\224\311\257\044\002\057\157\326\335\147\376\343
\260\125\117\004\230\117\244\101\126\342\223\320\152\350\326\363
\373\145\340\316\165\304\061\131\014\356\202\310\014\140\063\112
\031\272\204\147\047\017\274\102\135\275\044\124\015\354\035\160
\006\137\244\274\372\040\174\125
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Autoridad de Certificacion Firmaprofesional CIF A62634068"
Issuer: CN=Autoridad de Certificacion Firmaprofesional
CIF A62634068,C=ES
Serial Number:1b:70:e9:d2:ff:ae:6c:71
Subject: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
Not Valid Before: Tue Sep 23 15:22:07 2014
Not Valid After : Mon May 05 15:22:07 2036
Fingerprint (SHA-256):
57:DE:05:83:EF:D2:B2:6E:03:61:DA:99:DA:9D:F4:64:8D:EF:7E:E8:44:1C:3B:72:8A:FA:9B:CD:E0:F9:B2:6A
Fingerprint (SHA1): 0B:BE:C2:27:22:49:CB:39:AA:DB:35:5C:53:E3:8C:AE:78:FF:B6:FE
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE

```
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridad de Certificacion Firmaprofesional CIF A62634068"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\013\276\302\047\042\111\313\071\252\333\065\134\123\343\214\256
\170\377\266\376
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\116\156\233\124\114\312\267\372\110\344\220\261\025\113\034\243
END
CKA_ISSUER MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\102\060\100\006\003\125\004\003\014\071\101\165\164\157\162\151
\144\141\144\040\144\145\040\103\145\162\164\151\146\151\143\141
\143\151\157\156\040\106\151\162\155\141\160\162\157\146\145\163
\151\157\156\141\154\040\103\111\106\040\101\066\062\066\063\064
\060\066\070
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\010\033\160\351\322\377\256\154\161
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "vTrus ECC Root CA"
#
# Issuer: CN=vTrus ECC Root CA,O="iTrusChina Co.,Ltd.",C=CN
# Serial Number:6e:6a:bc:59:aa:53:be:98:39:67:a2:d2:6b:a4:3b:e6:6d:1c:d6:da
# Subject: CN=vTrus ECC Root CA,O="iTrusChina Co.,Ltd.",C=CN
# Not Valid Before: Tue Jul 31 07:26:44 2018
# Not Valid After : Fri Jul 31 07:26:44 2043
# Fingerprint (SHA-256):
30:FB:BA:2C:32:23:8E:2A:98:54:7A:F9:79:31:E5:50:42:8B:9B:3F:1C:8E:EB:66:33:DC:FA:86:C5:B2:7D:D3
# Fingerprint (SHA1):
 F6:9C:DB:B0:FC:F6:02:13:B6:52:32:A6:A3:91:3F:16:70:DA:C3:E1
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "vTrus ECC Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\034\060\032\006\003\125\004\012\023\023\151\124\162\165\163\103
```

\150\151\156\141\040\103\157\056\054\114\164\144\056\061\032\060
\030\006\003\125\004\003\023\021\166\124\162\165\163\040\105\103
\103\040\122\157\157\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\034\060\032\006\003\125\004\012\023\023\151\124\162\165\163\103
\150\151\156\141\040\103\157\056\054\114\164\144\056\061\032\060
\030\006\003\125\004\003\023\021\166\124\162\165\163\040\105\103
\103\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\156\152\274\131\252\123\276\230\071\147\242\322\153\244
\073\346\155\034\326\332
END
CKA_VALUE
MULTILINE_OCTAL
\060\202\002\017\060\202\001\225\240\003\002\001\002\002\024\156
\152\274\131\252\123\276\230\071\147\242\322\153\244\073\346\155
\034\326\332\060\012\006\010\052\206\110\316\075\004\003\003\060
\107\061\013\060\011\006\003\125\004\006\023\002\103\116\061\034
\060\032\006\003\125\004\012\023\023\151\124\162\165\163\103\150
\151\156\141\040\103\157\056\054\114\164\144\056\061\032\060\030
\006\003\125\004\003\023\021\166\124\162\165\163\040\105\103\103
\040\122\157\157\164\040\103\101\060\036\027\015\061\070\060\067
\063\061\060\067\062\066\064\064\132\027\015\064\063\060\067\063
\061\060\067\062\066\064\064\132\060\107\061\013\060\011\006\003
\125\004\006\023\002\103\116\061\034\060\032\006\003\125\004\012
\023\023\151\124\162\165\163\103\150\151\156\141\040\103\157\056
\054\114\164\144\056\061\032\060\030\006\003\125\004\003\023\021
\166\124\162\165\163\040\105\103\103\040\122\157\157\164\040\103
\101\060\166\060\020\006\007\052\206\110\316\075\002\001\006\005
\053\201\004\000\042\003\142\000\004\145\120\112\256\214\171\226
\112\252\034\010\303\243\242\315\376\131\126\101\167\375\046\224
\102\273\035\315\010\333\163\262\133\165\363\317\234\116\202\364
\277\370\141\046\205\154\326\205\133\162\160\322\375\333\142\264
\337\123\213\275\261\104\130\142\102\011\307\372\177\133\020\347
\376\100\375\300\330\303\053\062\347\160\246\267\246\040\125\035
\173\200\135\113\217\147\114\361\020\243\102\060\100\060\035\006
\003\125\035\016\004\026\004\024\230\071\315\276\330\262\214\367
\262\253\341\255\044\257\173\174\241\333\037\317\060\017\006\003
\125\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006
\003\125\035\017\001\001\377\004\004\003\002\001\006\060\012\006
\010\052\206\110\316\075\004\003\003\003\150\000\060\145\002\060
\127\235\335\126\361\307\343\351\270\111\120\153\233\151\303\157
\354\303\175\045\344\127\225\023\100\233\122\323\073\363\100\031
\274\046\307\055\006\236\265\173\066\237\365\045\324\143\153\000

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\002\061\000\351\323\306\236\126\232\052\314\241\332\077\310\146
\053\323\130\234\040\205\372\253\221\212\160\160\021\070\140\144
\013\142\011\221\130\000\371\115\373\064\150\332\011\255\041\006
\030\224\316
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "vTrus ECC Root CA"
# Issuer: CN=vTrus ECC Root CA,O="iTrusChina Co.,Ltd.",C=CN
# Serial Number:6e:6a:bc:59:aa:53:be:98:39:67:a2:d2:6b:a4:3b:e6:6d:1c:d6:da
# Subject: CN=vTrus ECC Root CA,O="iTrusChina Co.,Ltd.",C=CN
# Not Valid Before: Tue Jul 31 07:26:44 2018
# Not Valid After : Fri Jul 31 07:26:44 2043
# Fingerprint (SHA-256):
30:FB:BA:2C:32:23:8E:2A:98:54:7A:F9:79:31:E5:50:42:8B:9B:3F:1C:8E:EB:66:33:DC:FA:86:C5:B2:7D:D3
# Fingerprint (SHA1): F6:9C:DB:B0:FC:F6:02:13:B6:52:32:A6:A3:91:3F:16:70:DA:C3:E1
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE
 CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "vTrus ECC Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\366\234\333\260\374\366\002\023\266\122\062\246\243\221\077\026
\160\332\303\341
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\336\113\301\365\122\214\233\103\341\076\217\125\124\027\215\205
END
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\034\060\032\006\003\125\004\012\023\023\151\124\162\165\163\103
\150\151\156\141\040\103\157\056\054\114\164\144\056\061\032\060
\030\006\003\125\004\003\023\021\166\124\162\165\163\040\105\103
\103\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\156\152\274\131\252\123\276\230\071\147\242\322\153\244
\073\346\155\034\326\332
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
```

```
#
#
 Certificate "vTrus Root CA"
#
# Issuer: CN=vTrus Root CA,O="iTrusChina Co.,Ltd.",C=CN
# Serial Number:43:e3:71:13:d8:b3:59:14:5d:b7:ce:8c:fd:35:fd:6f:bc:05:8d:45
# Subject: CN=vTrus Root CA,O="iTrusChina Co.,Ltd.",C=CN
# Not Valid Before: Tue Jul 31 07:24:05 2018
# Not Valid After : Fri Jul 31 07:24:05 2043
# Fingerprint (SHA-256):
8A:71:DE:65:59:33:6F:42:6C:26:E5:38:80:D0:0D:88:A1:8D:A4:C6:A9:1F:0D:CB:61:94:E2:06:C5:C9:63:87
# Fingerprint (SHA1): 84:1A:69:FB:F5:CD:1A:25:34:13:3D:E3:F8:FC:B8:99:D0:C9:14:B7
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "vTrus Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\103\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\034\060\032\006\003\125\004\012\023\023\151\124\162\165\163\103
\150\151\156\141\040\103\157\056\054\114\164\144\056\061\026\060
\024\006\003\125\004\003\023\015\166\124\162\165\163\040\122\157
\157\164\040\103\101
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\103\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\034\060\032\006\003\125\004\012\023\023\151\124\162\165\163\103
\150\151\156\141\040\103\157\056\054\114\164\144\056\061\026\060
\024\006\003\125\004\003\023\015\166\124\162\165\163\040\122\157
\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\103\343\161\023\330\263\131\024\135\267\316\214\375\065
\375\157\274\005\215\105
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\126\060\202\003\076\240\003\002\001\002\002\024\103
\343\161\023\330\263\131\024\135\267\316\214\375\065\375\157\274
\005\215\105\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\060\103\061\013\060\011\006\003\125\004\006\023\002\103
\116\061\034\060\032\006\003\125\004\012\023\023\151\124\162\165
\163\103\150\151\156\141\040\103\157\056\054\114\164\144\056\061
\026\060\024\006\003\125\004\003\023\015\166\124\162\165\163\040
\122\157\157\164\040\103\101\060\036\027\015\061\070\060\067\063
\061\060\067\062\064\060\065\132\027\015\064\063\060\067\063\061
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\060\067\062\064\060\065\132\060\103\061\013\060\011\006\003\125
\004\006\023\002\103\116\061\034\060\032\006\003\125\004\012\023
\023\151\124\162\165\163\103\150\151\156\141\040\103\157\056\054
\114\164\144\056\061\026\060\024\006\003\125\004\003\023\015\166
\124\162\165\163\040\122\157\157\164\040\103\101\060\202\002\042
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\002\017\000\060\202\002\012\002\202\002\001\000\275\125\174
\141\323\270\035\004\142\005\240\256\154\267\160\264\101\352\113
\003\136\020\077\220\132\034\213\073\260\146\213\154\110\246\034
\042\272\325\100\222\356\063\262\043\131\311\216\274\130\332\213
\236\320\031\362\057\131\306\214\143\132\272\237\243\013\260\263
\232\134\272\021\270\022\351\014\273\317\156\154\200\207\051\024
\003\054\215\044\232\310\144\203\265\152\254\023\054\063\361\237
\334\054\141\074\032\077\160\125\233\255\000\122\177\317\004\271
\376\066\372\234\300\026\256\142\376\226\114\103\176\125\024\276
\032\263\322\155\302\257\166\146\225\153\052\260\224\167\205\136
\004\017\142\035\143\165\367\153\347\313\133\232\160\354\076\147
\005\360\376\007\010\200\317\050\333\005\306\024\047\057\206\175
\360\047\336\377\346\176\063\110\347\013\036\130\321\047\053\123
\016\127\112\145\327\373\242\200\140\374\114\274\065\123\001\152
\227\162\202\257\361\035\160\350\234\365\357\136\302\154\307\107
\176\132\224\205\046\115\073\272\353\114\350\260\011\302\145\302
\235\235\011\233\116\265\227\005\254\365\006\240\367\066\005\176
\364\220\262\153\304\264\371\144\352\351\032\012\310\015\250\355
\047\311\324\347\263\271\253\202\042\220\047\075\052\350\174\220
\357\274\117\375\342\012\044\247\336\145\044\244\135\352\300\166
\060\323\167\120\370\015\004\233\224\066\001\163\312\006\130\246
\323\073\334\372\004\106\023\125\212\311\104\107\270\121\071\032
\056\350\064\342\171\313\131\112\012\177\274\246\357\037\003\147
\152\131\053\045\142\223\331\123\031\146\074\047\142\051\206\115
\244\153\356\377\324\116\272\325\264\342\216\110\132\000\031\011
\361\005\331\316\221\261\367\353\351\071\117\366\157\004\103\232
\125\365\076\005\024\275\277\263\131\264\330\216\063\204\243\220
\122\252\263\002\225\140\371\014\114\150\371\356\325\027\015\370
\161\127\265\045\344\051\356\145\135\257\321\356\074\027\013\132
\103\305\245\206\352\044\236\342\005\007\334\064\102\022\221\326
\071\164\256\114\101\202\333\362\246\110\321\263\233\363\063\252
\363\246\300\305\116\365\364\235\166\143\346\002\306\042\113\301
\225\077\120\144\054\124\345\266\360\074\051\317\127\002\003\001
\000\001\243\102\060\100\060\035\006\003\125\035\016\004\026\004
\024\124\142\160\143\361\165\204\103\130\216\321\026\040\261\306
\254\032\274\366\211\060\017\006\003\125\035\023\001\001\377\004
\005\060\003\001\001\377\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\006\060\015\006\011\052\206\110\206\367\015
\001\001\013\005\000\003\202\002\001\000\051\272\222\111\247\255
\360\361\160\303\344\227\360\237\251\045\325\153\236\064\376\346
\032\144\366\072\153\122\262\020\170\032\237\114\332\212\332\354
\034\067\122\340\102\113\373\154\166\312\044\013\071\022\025\235

\237\021\055\374\171\144\334\340\340\365\335\340\127\311\245\262
\166\160\120\244\376\267\012\160\325\240\064\361\165\327\115\111
\272\021\321\263\330\354\202\377\353\016\304\277\144\055\175\143
\156\027\170\354\135\174\210\310\353\216\127\166\331\131\004\372
\274\122\037\105\254\360\172\200\354\354\157\166\256\221\333\020
\216\004\334\222\337\240\366\346\256\111\323\301\154\022\033\314
\051\252\371\010\245\342\067\024\312\261\270\146\357\032\202\344
\360\370\361\247\026\151\267\333\251\141\074\237\365\061\313\344
\000\106\302\057\164\261\261\327\201\356\250\046\225\274\210\257
\114\065\007\052\002\312\170\024\155\107\053\100\126\351\313\052
\140\241\147\003\240\316\214\274\260\162\147\304\061\316\333\064
\345\045\003\140\045\173\161\230\344\300\033\053\137\164\102\322
\113\305\131\010\007\207\276\305\303\177\347\226\331\341\334\050
\227\326\217\005\343\365\233\116\312\035\120\107\005\123\260\312
\071\347\205\240\211\301\005\073\001\067\323\077\111\342\167\353
\043\310\210\146\073\075\071\166\041\106\361\354\137\043\270\353
\242\146\165\164\301\100\367\330\150\232\223\342\055\251\056\275
\034\243\036\310\164\306\244\055\172\040\253\073\270\260\106\375
\157\335\137\122\125\165\142\360\227\240\174\327\070\375\045\337
\315\240\233\020\317\213\270\070\136\136\305\264\246\002\066\241
\036\137\034\317\342\226\235\051\252\375\230\256\122\341\363\101
\122\373\251\056\162\226\237\047\343\252\163\175\370\032\043\146
\173\073\253\145\260\062\001\113\025\076\075\242\117\014\053\065
\242\306\331\147\022\065\060\315\166\056\026\263\231\236\115\117
\116\055\073\064\103\341\232\016\015\244\146\227\272\322\034\112
\114\054\052\213\213\201\117\161\032\251\335\134\173\173\010\305
\000\015\067\100\343\174\173\124\137\057\205\137\166\366\367\247
\260\034\127\126\301\162\350\255\242\257\215\063\111\272\037\212
\334\346\164\174\140\206\157\207\227\173
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "vTrus Root CA"
Issuer: CN=vTrus Root CA,O="iTrusChina Co.,Ltd.",C=CN
Serial Number:43:e3:71:13:d8:b3:59:14:5d:b7:ce:8c:fd:35:fd:6f:bc:05:8d:45
Subject: CN=vTrus Root CA,O="iTrusChina Co.,Ltd.",C=CN
Not Valid Before: Tue Jul 31 07:24:05 2018
Not Valid After : Fri Jul 31 07:24:05 2043
Fingerprint (SHA-256):
8A:71:DE:65:59:33:6F:42:6C:26:E5:38:80:D0:0D:88:A1:8D:A4:C6:A9:1F:0D:CB:61:94:E2:06:C5:C9:63:87
Fingerprint (SHA1): 84:1A:69:FB:F5:CD:1A:25:34:13:3D:E3:F8:FC:B8:99:D0:C9:14:B7
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE

```
CKA_LABEL UTF8 "vTrus Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\204\032\151\373\365\315\032\045\064\023\075\343\370\374\270\231
\320\311\024\267
END
CKA_CERT_MD5_HASH
 MULTILINE_OCTAL
\270\311\067\337\372\153\061\204\144\305\352\021\152\033\165\374
END
CKA_ISSUER MULTILINE_OCTAL
\060\103\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\034\060\032\006\003\125\004\012\023\023\151\124\162\165\163\103
\150\151\156\141\040\103\157\056\054\114\164\144\056\061\026\060
\024\006\003\125\004\003\023\015\166\124\162\165\163\040\122\157
\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\103\343\161\023\330\263\131\024\135\267\316\214\375\065
\375\157\274\005\215\105
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "ISRG Root X2"
#
# Issuer: CN=ISRG Root X2,O=Internet Security Research Group,C=US
# Serial Number:41:d2:9d:d1:72:ea:ee:a7:80:c1:2c:6c:e9:2f:87:52
# Subject: CN=ISRG Root X2,O=Internet Security
 Research Group,C=US
# Not Valid Before: Fri Sep 04 00:00:00 2020
# Not Valid After : Mon Sep 17 16:00:00 2040
# Fingerprint (SHA-256):
69:72:9B:8E:15:A8:6E:FC:17:7A:57:AF:B7:17:1D:FC:64:AD:D2:8C:2F:CA:8C:F1:50:7E:34:45:3C:CB:14:70
# Fingerprint (SHA1): BD:B1:B9:3C:D5:97:8D:45:C6:26:14:55:F8:DB:95:C7:5A:D1:53:AF
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ISRG Root X2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156
\145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145
\141\162\143\150\040\107\162\157\165\160\061\025\060\023\006\003
```

\125\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130
\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156
\145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145
\141\162\143\150\040\107\162\157\165\160\061\025\060\023\006\003
\125\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130
\062
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\101\322\235\321\162\352\356\247\200\301\054\154\351\057
\207\122
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\033\060\202\001\241\240\003\002\001\002\002\020\101
\322\235\321\162\352\356\247\200\301\054\154\351\057\207\122\060
\012\006\010\052\206\110\316\075\004\003\003\060\117\061\013\060
\011\006\003\125\004\006\023\002\125\123\061\051\060\047\006\003
\125\004\012\023\040\111\156\164\145\162\156\145\164\040\123\145
\143\165\162\151\164\171\040\122\145\163\145\141\162\143\150\040
\107\162\157\165\160\061\025\060\023\006\003\125\004\003\023\014
\111\123\122\107\040\122\157\157\164\040\130\062\060\036\027\015
\062\060\060\071\060\064\060\060\060\060\060\060\132\027\015\064
\060\060\071\061\067\061\066\060\060\060\060\132\060\117\061\013
\060\011\006\003\125\004\006\023\002\125\123\061\051\060\047\006
\003\125\004\012\023\040\111\156\164\145\162\156\145\164\040\123
\145\143\165\162\151\164\171\040\122\145\163\145\141\162\143\150
\040\107\162\157\165\160\061\025\060\023\006\003\125\004\003\023
\014\111\123\122\107\040\122\157\157\164\040\130\062\060\166\060
\020\006\007\052\206\110\316\075\002\001\006\005\053\201\004\000
\042\003\142\000\004\315\233\325\237\200\203\012\354\011\112\363
\026\112\076\134\317\167\254\336\147\005\015\035\007\266\334\026
\373\132\213\024\333\342\161\140\304\272\105\225\021\211\216\352
\006\337\367\052\026\034\244\271\305\305\062\340\003\340\036\202
\030\070\213\327\105\330\012\152\156\346\000\167\373\002\121\175
\042\330\012\156\232\133\167\337\360\372\101\354\071\334\165\312
\150\007\014\037\352\243\102\060\100\060\016\006\003\125\035\017
\001\001\377\004\004\003\002\001\006\060\017\006\003\125\035\023
\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125\035
\016\004\026\004\024\174\102\226\256\336\113\110\073\372\222\370
\236\214\317\155\213\251\162\067\225\060\012\006\010\052\206\110
\316\075\004\003\003\003\150\000\060\145\002\060\173\171\116\106
\120\204\302\104\207\106\033\105\160\377\130\231\336\364\375\244
\322\125\246\040\055\164\326\064\274\101\243\120\137\001\047\126

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\264\276\047\165\006\257\022\056\165\230\215\374\002\061\000\213
\365\167\154\324\310\145\252\340\013\054\356\024\235\047\067\244
\371\123\245\121\344\051\203\327\370\220\061\133\102\237\012\365
\376\256\000\150\347\214\111\017\266\157\133\133\025\362\347
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "ISRG Root X2"
# Issuer: CN=ISRG Root X2,O=Internet Security Research Group,C=US
# Serial Number:41:d2:9d:d1:72:ea:ee:a7:80:c1:2c:6c:e9:2f:87:52
# Subject: CN=ISRG Root X2,O=Internet Security Research Group,C=US
# Not Valid Before: Fri
 Sep 04 00:00:00 2020
# Not Valid After : Mon Sep 17 16:00:00 2040
# Fingerprint (SHA-256):
69:72:9B:8E:15:A8:6E:FC:17:7A:57:AF:B7:17:1D:FC:64:AD:D2:8C:2F:CA:8C:F1:50:7E:34:45:3C:CB:14:70
# Fingerprint (SHA1): BD:B1:B9:3C:D5:97:8D:45:C6:26:14:55:F8:DB:95:C7:5A:D1:53:AF
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ISRG Root X2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\275\261\271\074\325\227\215\105\306\046\024\125\370\333\225\307
\132\321\123\257
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\323\236\304\036\043\074\246\337\317\243\176\155\340\024\346\345
END
CKA_ISSUER MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156
\145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145
\141\162\143\150\040\107\162\157\165\160\061\025\060\023\006\003
\125\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130
\062
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\101\322\235\321\162\352\356\247\200\301\054\154\351\057
\207\122
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
```

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CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "HiPKI Root CA - G1"
#
# Issuer: CN=HiPKI Root CA - G1,O="Chunghwa Telecom Co., Ltd.",C=TW
# Serial Number:2d:dd:ac:ce:62:97:94:a1:43:e8:b0:cd:76:6a:5e:60
# Subject: CN=HiPKI Root CA - G1,O="Chunghwa Telecom Co., Ltd.",C=TW
# Not Valid Before: Fri Feb 22 09:46:04 2019
# Not Valid After : Thu Dec 31 15:59:59 2037
# Fingerprint (SHA-256):
F0:15:CE:3C:C2:39:BF:EF:06:4B:E9:F1:D2:C4:17:E1:A0:26:4A:0A:94:BE:1F:0C:8D:12:18:64:EB:69:49:CC
# Fingerprint (SHA1): 6A:92:E4:A8:EE:1B:EC:96:45:37:E3:29:57:49:CD:96:E3:E5:D2:60
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL
 CK_FALSE
CKA_LABEL UTF8 "HiPKI Root CA - G1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150
\167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040
\114\164\144\056\061\033\060\031\006\003\125\004\003\014\022\110
\151\120\113\111\040\122\157\157\164\040\103\101\040\055\040\107
\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150
\167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040
\114\164\144\056\061\033\060\031\006\003\125\004\003\014\022\110
\151\120\113\111\040\122\157\157\164\040\103\101\040\055\040\107
\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\055\335\254\316\142\227\224\241\103\350\260\315\166\152
\136\140
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\152\060\202\003\122\240\003\002\001\002\002\020\055
\335\254\316\142\227\224\241\103\350\260\315\166\152\136\140\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\117
\061\013\060\011\006\003\125\004\006\023\002\124\127\061\043\060
\041\006\003\125\004\012\014\032\103\150\165\156\147\150\167\141
\040\124\145\154\145\143\157\155\040\103\157\056\054\040\114\164
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\144\056\061\033\060\031\006\003\125\004\003\014\022\110\151\120
\113\111\040\122\157\157\164\040\103\101\040\055\040\107\061\060
\036\027\015\061\071\060\062\062\062\060\071\064\066\060\064\132
\027\015\063\067\061\062\063\061\061\065\065\071\065\071\132\060
\117\061\013\060\011\006\003\125\004\006\023\002\124\127\061\043
\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150\167
\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040\114
\164\144\056\061\033\060\031\006\003\125\004\003\014\022\110\151
\120\113\111\040\122\157\157\164\040\103\101\040\055\040\107\061
\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001
\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001
\000\364\036\177\122\163\062\014\163\344\275\023\164\243\324\060
\250\320\256\113\330\266\337\165\107\146\364\174\347\071\004\036
\152\160\040\322\132\107\162\147\125\364\245\350\235\325\036\041
\241\360\147\272\314\041\150\276\104\123\277\215\371\342\334\057
\125\310\067\077\037\244\300\234\263\344\167\134\240\106\376\167
\372\032\240\070\352\355\232\162\336\053\275\224\127\072\272\354
\171\347\137\175\102\144\071\172\046\066\367\044\360\325\057\272
\225\230\021\146\255\227\065\326\165\001\200\340\257\364\204\141
\214\015\036\137\174\207\226\136\101\257\353\207\352\370\135\361
\056\210\005\076\114\042\273\332\037\052\335\122\106\144\071\363
\102\316\331\236\014\263\260\167\227\144\234\300\364\243\056\037
\225\007\260\027\337\060\333\000\030\226\114\241\201\113\335\004
\155\123\243\075\374\007\254\324\305\067\202\353\344\225\010\031
\050\202\322\102\072\243\330\123\354\171\211\140\110\140\310\162
\222\120\334\003\217\203\077\262\102\127\132\333\152\351\021\227
\335\205\050\274\060\114\253\343\302\261\105\104\107\037\340\212
\026\007\226\322\041\017\123\300\355\251\176\324\116\354\233\011
\354\257\102\254\060\326\277\321\020\105\340\246\026\262\245\305
\323\117\163\224\063\161\002\241\152\243\326\063\227\117\041\143
\036\133\217\331\301\136\105\161\167\017\201\135\137\041\232\255
\203\314\372\136\326\215\043\137\033\075\101\257\040\165\146\132
\112\366\237\373\253\030\367\161\300\266\035\061\354\073\040\353
\313\342\270\365\256\222\262\367\341\204\113\362\242\362\223\232
\042\236\323\024\157\066\124\275\037\136\131\025\271\163\250\301
\174\157\173\142\351\026\154\107\132\145\363\016\021\233\106\331
\375\155\334\326\234\300\264\175\245\260\335\077\126\157\241\371
\366\344\022\110\375\006\177\022\127\266\251\043\117\133\003\303
\340\161\052\043\267\367\260\261\073\274\230\275\326\230\250\014
\153\366\216\022\147\246\362\262\130\344\002\011\023\074\251\273
\020\264\322\060\105\361\354\367\000\021\337\145\370\334\053\103
\125\277\026\227\304\017\325\054\141\204\252\162\206\376\346\072
\176\302\077\175\356\374\057\024\076\346\205\335\120\157\267\111
\355\002\003\001\000\001\243\102\060\100\060\017\006\003\125\035
\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125
\035\016\004\026\004\024\362\167\027\372\136\250\376\366\075\161
\325\150\272\311\106\014\070\330\257\260\060\016\006\003\125\035
\017\001\001\377\004\004\003\002\001\206\060\015\006\011\052\206

\110\206\367\015\001\001\013\005\000\003\202\002\001\000\120\121
\360\165\334\160\004\343\377\252\165\324\161\242\313\236\217\250
\251\323\257\165\307\124\317\072\034\004\231\042\254\304\021\342
\357\063\112\246\043\035\016\015\107\330\067\307\157\257\064\177
\117\201\153\065\117\351\162\245\061\342\170\347\367\116\224\030
\133\100\175\317\153\041\124\206\346\225\172\373\306\312\352\234
\110\116\127\011\135\057\254\364\245\264\227\063\130\325\254\171
\251\314\137\371\205\372\122\305\215\370\221\024\353\072\015\027
\320\122\302\173\343\302\163\216\106\170\006\070\054\350\134\332
\146\304\364\244\360\126\031\063\051\132\145\222\005\107\106\112
\253\204\303\036\047\241\037\021\222\231\047\165\223\017\274\066
\073\227\127\217\046\133\014\273\234\017\324\156\060\007\324\334
\137\066\150\146\071\203\226\047\046\212\310\304\071\376\232\041
\157\325\162\206\351\177\142\345\227\116\320\044\320\100\260\320
\165\010\216\275\150\356\010\327\156\174\020\160\106\033\174\340
\210\262\236\162\206\231\001\343\277\237\111\031\264\045\276\126
\145\256\027\143\345\036\337\350\377\107\245\277\341\046\005\204
\344\260\300\257\347\010\231\250\014\136\046\200\105\324\370\150
\057\226\217\256\342\112\034\234\026\014\023\157\070\207\366\273
\310\064\137\222\003\121\171\160\246\337\313\365\231\115\171\315
\116\274\127\237\103\116\153\056\053\030\370\152\163\214\272\305
\065\357\071\152\101\036\317\161\250\242\262\206\007\133\072\311
\341\357\077\145\004\200\107\062\104\160\225\116\061\147\152\164
\133\020\105\165\352\260\237\320\346\065\376\116\237\213\314\053
\222\105\133\156\045\140\205\106\315\321\252\260\166\146\223\167
\226\276\203\276\070\266\044\116\046\013\314\355\172\126\032\340
\351\132\306\144\255\114\172\000\110\104\057\271\100\273\023\076
\276\025\170\235\205\201\112\052\127\336\325\031\103\332\333\312
\133\107\206\203\013\077\266\015\166\170\163\171\042\136\261\200
\037\317\276\321\077\126\020\230\053\225\207\241\037\235\144\024
\140\071\054\263\000\125\056\344\365\263\016\127\304\221\101\000
\234\077\350\245\337\352\366\377\310\360\255\155\122\250\027\253
\233\141\374\022\121\065\344\045\375\257\252\152\206\071
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "HiPKI Root CA - G1"
Issuer: CN=HiPKI Root CA - G1,O="Chunghwa Telecom Co., Ltd.",C=TW
Serial Number:2d:dd:ac:ce:62:97:94:a1:43:e8:b0:cd:76:6a:5e:60
Subject: CN=HiPKI Root CA - G1,O="Chunghwa Telecom Co., Ltd.",C=TW
#
Not Valid Before: Fri Feb 22 09:46:04 2019
Not Valid After : Thu Dec 31 15:59:59 2037
Fingerprint (SHA-256):
F0:15:CE:3C:C2:39:BF:EF:06:4B:E9:F1:D2:C4:17:E1:A0:26:4A:0A:94:BE:1F:0C:8D:12:18:64:EB:69:49:CC

```
# Fingerprint (SHA1): 6A:92:E4:A8:EE:1B:EC:96:45:37:E3:29:57:49:CD:96:E3:E5:D2:60
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HiPKI Root CA - G1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\152\222\344\250\356\033\354\226\105\067\343\051\127\111\315\226
\343\345\322\140
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\151\105\337\026\145\113\350\150\232\217\166\137\377\200\236\323
END
CKA_ISSUER MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150
\167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040
\114\164\144\056\061\033\060\031\006\003\125\004\003\014\022\110
\151\120\113\111\040\122\157\157\164\040\103\101\040\055\040\107
\061
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\055\335\254\316\142\227\224\241\103\350\260\315\166\152
\136\140
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "GlobalSign ECC Root CA - R4"
#
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
# Serial Number:02:03:e5:7e:f5:3f:93:fd:a5:09:21:b2:a6
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
# Not Valid Before: Tue Nov 13 00:00:00 2012
# Not Valid After : Tue Jan 19 03:14:07 2038
# Fingerprint (SHA-256):
B0:85:D7:0B:96:4F:19:1A:73:E4:AF:0D:54:AE:7A:0E:07:AA:FD:AF:9B:71:DD:08:62:13:8A:B7:32:5A:24:A2
# Fingerprint (SHA1): 6B:A0:B0:98:E1:71:EF:5A:AD:FE:48:15:80:77:10:F4:BD:6F:0B:28
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL
 CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign ECC Root CA - R4"
```

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\120\061\044\060\042\006\003\125\004\013\023\033\107\154\157
\142\141\154\123\151\147\156\040\105\103\103\040\122\157\157\164
\040\103\101\040\055\040\122\064\061\023\060\021\006\003\125\004
\012\023\012\107\154\157\142\141\154\123\151\147\156\061\023\060
\021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151
\147\156
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\120\061\044\060\042\006\003\125\004\013\023\033\107\154\157
\142\141\154\123\151\147\156\040\105\103\103\040\122\157\157\164
\040\103\101\040\055\040\122\064\061\023\060\021\006\003\125\004
\012\023\012\107\154\157\142\141\154\123\151\147\156\061\023\060
\021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151
\147\156
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\003\345\176\365\077\223\375\245\011\041\262\246
END
CKA_VALUE MULTILINE_OCTAL
\060\202\001\334\060\202\001\203\240\003\002\001\002\002\015\002
\003\345\176\365\077\223\375\245\011\041\262\246\060\012\006\010
\052\206\110\316\075\004\003\002\060\120\061\044\060\042\006\003
\125\004\013\023\033\107\154\157\142\141\154\123\151\147\156\040
\105\103\103\040\122\157\157\164\040\103\101\040\055\040\122\064
\061\023\060\021\006\003\125\004\012\023\012\107\154\157\142\141
\154\123\151\147\156\061\023\060\021\006\003\125\004\003\023\012
\107\154\157\142\141\154\123\151\147\156\060\036\027\015\061\062
\061\061\061\063\060\060\060\060\060\060\132\027\015\063\070\060
\061\061\071\060\063\061\064\060\067\132\060\120\061\044\060\042
\006\003\125\004\013\023\033\107\154\157\142\141\154\123\151\147
\156\040\105\103\103\040\122\157\157\164\040\103\101\040\055\040
\122\064\061\023\060\021\006\003\125\004\012\023\012\107\154\157
\142\141\154\123\151\147\156\061\023\060\021\006\003\125\004\003
\023\012\107\154\157\142\141\154\123\151\147\156\060\131\060\023
\006\007\052\206\110\316\075\002\001\006\010\052\206\110\316\075
\003\001\007\003\102\000\004\270\306\171\323\217\154\045\016\237
\056\071\031\034\003\244\256\232\345\071\007\011\026\312\143\261
\271\206\370\212\127\301\127\316\102\372\163\241\367\145\102\377
\036\301\000\262\156\163\016\377\307\041\345\030\244\252\331\161
\077\250\324\271\316\214\035\243\102\060\100\060\016\006\003\125
\035\017\001\001\377\004\004\003\002\001\206\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003
\125\035\016\004\026\004\024\124\260\173\255\105\270\342\100\177
\373\012\156\373\276\063\311\074\243\204\325\060\012\006\010\052
\206\110\316\075\004\003\002\003\107\000\060\104\002\040\042\117

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\164\162\271\140\257\361\346\234\240\026\005\120\137\303\136\073
\156\141\164\357\276\001\304\276\030\110\131\141\202\062\002\040
\046\235\124\143\100\336\067\140\120\317\310\330\355\235\202\256
\067\230\274\243\217\114\114\251\064\053\154\357\373\225\233\046
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL
 CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GlobalSign ECC Root CA - R4"
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
# Serial Number:02:03:e5:7e:f5:3f:93:fd:a5:09:21:b2:a6
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
# Not Valid Before: Tue Nov 13 00:00:00 2012
# Not Valid After : Tue Jan 19 03:14:07 2038
# Fingerprint (SHA-256):
B0:85:D7:0B:96:4F:19:1A:73:E4:AF:0D:54:AE:7A:0E:07:AA:FD:AF:9B:71:DD:08:62:13:8A:B7:32:5A:24:A2
# Fingerprint (SHA1): 6B:A0:B0:98:E1:71:EF:5A:AD:FE:48:15:80:77:10:F4:BD:6F:0B:28
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign ECC Root CA - R4"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\153\240\260\230\341\161\357\132\255\376\110\025\200\167\020\364
\275\157\013\050
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\046\051\370\155\341\210\277\242\145\177\252\304\315\017\177\374
END
CKA_ISSUER
 MULTILINE_OCTAL
\060\120\061\044\060\042\006\003\125\004\013\023\033\107\154\157
\142\141\154\123\151\147\156\040\105\103\103\040\122\157\157\164
\040\103\101\040\055\040\122\064\061\023\060\021\006\003\125\004
\012\023\012\107\154\157\142\141\154\123\151\147\156\061\023\060
\021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151
\147\156
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\003\345\176\365\077\223\375\245\011\041\262\246
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
```

```
#
# Certificate "GTS Root R1"
#
# Issuer: CN=GTS Root R1,O=Google Trust Services LLC,C=US
# Serial Number:02:03:e5:93:6f:31:b0:13:49:88:6b:a2:17
# Subject: CN=GTS Root R1,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After : Sun Jun 22
 00:00:00 2036
# Fingerprint (SHA-256):
D9:47:43:2A:BD:E7:B7:FA:90:FC:2E:6B:59:10:1B:12:80:E0:E1:C7:E4:E4:0F:A3:C6:88:7F:FF:57:A7:F4:CF
# Fingerprint (SHA1): E5:8C:1C:C4:91:3B:38:63:4B:E9:10:6E:E3:AD:8E:6B:9D:D9:81:4A
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\061
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\015\002\003\345\223\157\061\260\023\111\210\153\242\027
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\127\060\202\003\077\240\003\002\001\002\002\015\002
\003\345\223\157\061\260\023\111\210\153\242\027\060\015\006\011
\052\206\110\206\367\015\001\001\014\005\000\060\107\061\013\060
\011\006\003\125\004\006\023\002\125\123\061\042\060\040\006\003
\125\004\012\023\031\107\157\157\147\154\145\040\124\162\165\163
\164\040\123\145\162\166\151\143\145\163\040\114\114\103\061\024
\060\022\006\003\125\004\003\023\013\107\124\123\040\122\157\157
\164\040\122\061\060\036\027\015\061\066\060\066\062\062\060\060
\060\060\060\060\132\027\015\063\066\060\066\062\062\060\060\060
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\060\060\060\132\060\107\061\013\060\011\006\003\125\004\006\023
\002\125\123\061\042\060\040\006\003\125\004\012\023\031\107\157
\157\147\154\145\040\124\162\165\163\164\040\123\145\162\166\151
\143\145\163\040\114\114\103\061\024\060\022\006\003\125\004\003
\023\013\107\124\123\040\122\157\157\164\040\122\061\060\202\002
\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000
\003\202\002\017\000\060\202\002\012\002\202\002\001\000\266\021
\002\213\036\343\241\167\233\073\334\277\224\076\267\225\247\100
\074\241\375\202\371\175\062\006\202\161\366\366\214\177\373\350
\333\274\152\056\227\227\243\214\113\371\053\366\261\371\316\204
\035\261\371\305\227\336\357\271\362\243\351\274\022\211\136\247
\252\122\253\370\043\047\313\244\261\234\143\333\327\231\176\360
\012\136\353\150\246\364\306\132\107\015\115\020\063\343\116\261
\023\243\310\030\154\113\354\374\011\220\337\235\144\051\045\043
\007\241\264\322\075\056\140\340\317\322\011\207\273\315\110\360
\115\302\302\172\210\212\273\272\317\131\031\326\257\217\260\007
\260\236\061\361\202\301\300\337\056\246\155\154\031\016\265\330
\176\046\032\105\003\075\260\171\244\224\050\255\017\177\046\345
\250\010\376\226\350\074\150\224\123\356\203\072\210\053\025\226
\011\262\340\172\214\056\165\326\234\353\247\126\144\217\226\117
\150\256\075\227\302\204\217\300\274\100\300\013\134\275\366\207
\263\065\154\254\030\120\177\204\340\114\315\222\323\040\351\063
\274\122\231\257\062\265\051\263\045\052\264\110\371\162\341\312
\144\367\346\202\020\215\350\235\302\212\210\372\070\146\212\374
\143\371\001\371\170\375\173\134\167\372\166\207\372\354\337\261
\016\171\225\127\264\275\046\357\326\001\321\353\026\012\273\216
\013\265\305\305\212\125\253\323\254\352\221\113\051\314\031\244
\062\045\116\052\361\145\104\320\002\316\252\316\111\264\352\237
\174\203\260\100\173\347\103\253\247\154\243\217\175\211\201\372
\114\245\377\325\216\303\316\113\340\265\330\263\216\105\317\166
\300\355\100\053\375\123\017\260\247\325\073\015\261\212\242\003
\336\061\255\314\167\352\157\173\076\326\337\221\042\022\346\276
\372\330\062\374\020\143\024\121\162\336\135\326\026\223\275\051
\150\063\357\072\146\354\007\212\046\337\023\327\127\145\170\047
\336\136\111\024\000\242\000\177\232\250\041\266\251\261\225\260
\245\271\015\026\021\332\307\154\110\074\100\340\176\015\132\315
\126\074\321\227\005\271\313\113\355\071\113\234\304\077\322\125
\023\156\044\260\326\161\372\364\301\272\314\355\033\365\376\201
\101\330\000\230\075\072\310\256\172\230\067\030\005\225\002\003
\001\000\001\243\102\060\100\060\016\006\003\125\035\017\001\001
\377\004\004\003\002\001\206\060\017\006\003\125\035\023\001\001
\377\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004
\026\004\024\344\257\053\046\161\032\053\110\047\205\057\122\146
\054\357\360\211\023\161\076\060\015\006\011\052\206\110\206\367
\015\001\001\014\005\000\003\202\002\001\000\237\252\102\046\333
\013\233\276\377\036\226\222\056\076\242\145\112\152\230\272\042
\313\175\301\072\330\202\012\006\306\366\245\336\300\116\207\146
\171\241\371\246\130\234\252\371\265\346\140\347\340\350\261\036

\102\101\063\013\067\075\316\211\160\025\312\265\044\250\317\153
\265\322\100\041\230\317\042\064\317\073\305\042\204\340\305\016
\212\174\135\210\344\065\044\316\233\076\032\124\036\156\333\262
\207\247\374\363\372\201\125\024\142\012\131\251\042\005\061\076
\202\326\356\333\127\064\274\063\225\323\027\033\350\047\242\213
\173\116\046\032\172\132\144\266\321\254\067\361\375\240\363\070
\354\162\360\021\165\235\313\064\122\215\346\166\153\027\306\337
\206\253\047\216\111\053\165\146\201\020\041\246\352\076\364\256
\045\377\174\025\336\316\214\045\077\312\142\160\012\367\057\011
\146\007\310\077\034\374\360\333\105\060\337\142\210\301\265\017
\235\303\237\112\336\131\131\107\305\207\042\066\346\202\247\355
\012\271\342\007\240\215\173\172\112\074\161\322\342\003\241\037
\062\007\335\033\344\102\316\014\000\105\141\200\265\013\040\131
\051\170\275\371\125\313\143\305\074\114\364\266\377\333\152\137
\061\153\231\236\054\301\153\120\244\327\346\030\024\275\205\077
\147\253\106\237\240\377\102\247\072\177\134\313\135\260\160\035
\053\064\365\324\166\011\014\353\170\114\131\005\363\063\102\303
\141\025\020\033\167\115\316\042\214\324\205\362\105\175\267\123
\352\357\100\132\224\012\134\040\137\116\100\135\142\042\166\337
\377\316\141\275\214\043\170\322\067\002\340\216\336\321\021\067
\211\366\277\355\111\007\142\256\222\354\100\032\257\024\011\331
\320\116\262\242\367\276\356\356\330\377\334\032\055\336\270\066
\161\342\374\171\267\224\045\321\110\163\133\241\065\347\263\231
\147\165\301\031\072\053\107\116\323\102\216\375\061\310\026\146
\332\322\014\074\333\263\216\311\241\015\200\017\173\026\167\024
\277\377\333\011\224\262\223\274\040\130\025\351\333\161\103\363
\336\020\303\000\334\250\052\225\266\302\326\077\220\153\166\333
\154\376\214\274\362\160\065\014\334\231\031\065\334\327\310\106
\143\325\066\161\256\127\373\267\202\155\334
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "GTS Root R1"
Issuer: CN=GTS Root R1,O=Google
 Trust Services LLC,C=US
Serial Number:02:03:e5:93:6f:31:b0:13:49:88:6b:a2:17
Subject: CN=GTS Root R1,O=Google Trust Services LLC,C=US
Not Valid Before: Wed Jun 22 00:00:00 2016
Not Valid After : Sun Jun 22 00:00:00 2036
Fingerprint (SHA-256):
D9:47:43:2A:BD:E7:B7:FA:90:FC:2E:6B:59:10:1B:12:80:E0:E1:C7:E4:E4:0F:A3:C6:88:7F:FF:57:A7:F4:CF
Fingerprint (SHA1): E5:8C:1C:C4:91:3B:38:63:4B:E9:10:6E:E3:AD:8E:6B:9D:D9:81:4A
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE

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CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\345\214\034\304\221\073\070\143\113\351\020\156\343\255\216\153
\235\331\201\112
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\005\376\320\277\161\250\243\166\143\332\001\340\330\122\334\100
END
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\061
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\015\002\003\345\223\157\061\260\023\111\210\153\242\027
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "GTS Root R2"
#
# Issuer: CN=GTS Root R2,O=Google Trust Services LLC,C=US
# Serial Number:02:03:e5:ae:c5:8d:04:25:1a:ab:11:25:aa
# Subject: CN=GTS Root R2,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After : Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):
8D:25:CD:97:22:9D:BF:70:35:6B:DA:4E:B3:CC:73:40:31:E2:4C:F0:0F:AF:CF:D3:2D:C7:6E:B5:84:1C:7E:A8
# Fingerprint (SHA1): 9A:44:49:76:32:DB:DE:FA:D0:BC:FB:5A:7B:17:BD:9E:56:09:24:94
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN
 CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
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\123\040\122\157\157\164\040\122\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\003\345\256\305\215\004\045\032\253\021\045\252
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\127\060\202\003\077\240\003\002\001\002\002\015\002
\003\345\256\305\215\004\045\032\253\021\045\252\060\015\006\011
\052\206\110\206\367\015\001\001\014\005\000\060\107\061\013\060
\011\006\003\125\004\006\023\002\125\123\061\042\060\040\006\003
\125\004\012\023\031\107\157\157\147\154\145\040\124\162\165\163
\164\040\123\145\162\166\151\143\145\163\040\114\114\103\061\024
\060\022\006\003\125\004\003\023\013\107\124\123\040\122\157\157
\164\040\122\062\060\036\027\015\061\066\060\066\062\062\060\060
\060\060\060\060\132\027\015\063\066\060\066\062\062\060\060\060
\060\060\060\132\060\107\061\013\060\011\006\003\125\004\006\023
\002\125\123\061\042\060\040\006\003\125\004\012\023\031\107\157
\157\147\154\145\040\124\162\165\163\164\040\123\145\162\166\151
\143\145\163\040\114\114\103\061\024\060\022\006\003\125\004\003
\023\013\107\124\123\040\122\157\157\164\040\122\062\060\202\002
\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000
\003\202\002\017\000\060\202\002\012\002\202\002\001\000\316\336
\375\246\373\354\354\024\064\074\007\006\132\154\131\367\031\065
\335\367\301\235\125\252\323\315\073\244\223\162\357\012\372\155
\235\366\360\205\200\133\241\110\122\237\071\305\267\356\050\254
\357\313\166\150\024\271\337\255\001\154\231\037\304\042\035\237
\376\162\167\340\054\133\257\344\004\277\117\162\240\032\064\230
\350\071\150\354\225\045\173\166\241\346\151\271\205\031\275\211
\214\376\255\355\066\352\163\274\377\203\342\313\175\301\322\316
\112\263\215\005\236\213\111\223\337\301\133\320\156\136\360\056
\060\056\202\374\372\274\264\027\012\110\345\210\233\305\233\153
\336\260\312\264\003\360\332\364\220\270\145\144\367\134\114\255
\350\176\146\136\231\327\270\302\076\310\320\023\235\255\356\344
\105\173\211\125\367\212\037\142\122\204\022\263\302\100\227\343
\212\037\107\221\246\164\132\322\370\261\143\050\020\270\263\011
\270\126\167\100\242\046\230\171\306\376\337\045\356\076\345\240
\177\324\141\017\121\113\074\077\214\332\341\160\164\330\302\150
\241\371\301\014\351\241\342\177\273\125\074\166\006\356\152\116
\314\222\210\060\115\232\275\117\013\110\232\204\265\230\243\325
\373\163\301\127\141\335\050\126\165\023\256\207\216\347\014\121

\011\020\165\210\114\274\215\371\173\074\324\042\110\037\052\334
\353\153\273\104\261\313\063\161\062\106\257\255\112\361\214\350
\164\072\254\347\032\042\163\200\322\060\367\045\102\307\042\073
\073\022\255\226\056\306\303\166\007\252\040\267\065\111\127\351
\222\111\350\166\026\162\061\147\053\226\176\212\243\307\224\126
\042\277\152\113\176\001\041\262\043\062\337\344\232\104\155\131
\133\135\365\000\240\034\233\306\170\227\215\220\377\233\310\252
\264\257\021\121\071\136\331\373\147\255\325\133\021\235\062\232
\033\275\325\272\133\245\311\313\045\151\123\125\047\134\340\312
\066\313\210\141\373\036\267\320\313\356\026\373\323\246\114\336
\222\245\324\342\337\365\006\124\336\056\235\113\264\223\060\252
\201\316\335\032\334\121\163\015\117\160\351\345\266\026\041\031
\171\262\346\211\013\165\144\312\325\253\274\011\301\030\241\377
\324\124\241\205\074\375\024\044\003\262\207\323\244\267\002\003
\001\000\001\243\102\060\100\060\016\006\003\125\035\017\001\001
\377\004\004\003\002\001\206\060\017\006\003\125\035\023\001\001
\377\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004
\026\004\024\273\377\312\216\043\237\117\231\312\333\342\150\246
\245\025\047\027\036\331\016\060\015\006\011\052\206\110\206\367
\015\001\001\014\005\000\003\202\002\001\000\037\312\316\335\307
\276\241\237\331\047\114\013\334\027\230\021\152\210\336\075\346
\161\126\162\262\236\032\116\234\325\053\230\044\135\233\153\173
\260\063\202\011\275\337\045\106\352\230\236\266\033\376\203\074
\322\142\141\301\004\355\316\340\305\311\310\023\023\125\347\250
\143\255\214\173\001\376\167\060\341\316\150\233\005\370\022\356
\171\061\240\101\105\065\050\012\161\244\044\117\214\334\074\202
\007\137\146\334\175\020\376\014\141\263\005\225\356\341\256\201
\017\250\370\307\217\115\250\043\002\046\153\035\203\122\125\316
\265\057\000\312\200\100\340\341\164\254\140\365\207\200\235\256
\066\144\221\135\260\150\030\352\212\141\311\167\250\227\304\311
\307\245\374\125\113\363\360\177\271\145\075\047\150\320\314\153
\372\123\235\341\221\032\311\135\032\226\155\062\207\355\003\040
\310\002\316\132\276\331\352\375\262\115\304\057\033\337\137\172
\365\370\213\306\356\061\072\045\121\125\147\215\144\062\173\351
\236\303\202\272\052\055\351\036\264\340\110\006\242\374\147\257
\037\042\002\163\373\040\012\257\235\124\113\241\315\377\140\107
\260\077\135\357\033\126\275\227\041\226\055\012\321\136\235\070
\002\107\154\271\364\366\043\045\270\240\152\232\053\167\010\372
\304\261\050\220\046\130\010\074\342\176\252\327\075\157\272\061
\210\012\005\353\047\265\241\111\356\240\105\124\173\346\047\145
\231\040\041\250\243\274\373\030\226\273\122\157\014\355\203\121
\114\351\131\342\040\140\305\302\145\222\202\214\363\020\037\016
\212\227\276\167\202\155\077\217\035\135\274\111\047\275\314\117
\017\341\316\166\206\004\043\305\300\214\022\133\375\333\204\240
\044\361\110\377\144\174\320\276\134\026\321\357\231\255\300\037
\373\313\256\274\070\042\006\046\144\332\332\227\016\077\050\025
\104\250\117\000\312\360\232\314\317\164\152\264\076\074\353\225
\354\265\323\132\330\201\231\351\103\030\067\353\263\273\321\130

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\142\101\363\146\322\217\252\170\225\124\040\303\132\056\164\053
\325\321\276\030\151\300\254\325\244\317\071\272\121\204\003\145
\351\142\300\142\376\330\115\125\226\342\320\021\372\110\064\021
\354\236\355\005\035\344\310\326\035\206\313
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GTS Root R2"
# Issuer: CN=GTS Root R2,O=Google Trust Services LLC,C=US
# Serial Number:02:03:e5:ae:c5:8d:04:25:1a:ab:11:25:aa
# Subject: CN=GTS Root R2,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After : Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):
8D:25:CD:97:22:9D:BF:70:35:6B:DA:4E:B3:CC:73:40:31:E2:4C:F0:0F:AF:CF:D3:2D:C7:6E:B5:84:1C:7E:A8
#
 Fingerprint (SHA1): 9A:44:49:76:32:DB:DE:FA:D0:BC:FB:5A:7B:17:BD:9E:56:09:24:94
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\232\104\111\166\062\333\336\372\320\274\373\132\173\027\275\236
\126\011\044\224
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\036\071\300\123\346\036\051\202\013\312\122\125\066\135\127\334
END
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\003\345\256\305\215\004\045\032\253\021\045\252
END
CKA_TRUST_SERVER_AUTH
 CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
```

```
#
# Certificate "GTS Root R3"
#
# Issuer: CN=GTS Root R3,O=Google Trust Services LLC,C=US
# Serial Number:02:03:e5:b8:82:eb:20:f8:25:27:6d:3d:66
# Subject: CN=GTS Root R3,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After : Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):
34:D8:A7:3E:E2:08:D9:BC:DB:0D:95:65:20:93:4B:4E:40:E6:94:82:59:6E:8B:6F:73:C8:42:6B:01:0A:6F:48
# Fingerprint (SHA1): ED:E5:71:80:2B:C8:92:B9:5B:83:3C:D2:32:68:3F:09:CD:A0:1E:46
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\063
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\003\345\270\202\353\040\370\045\047\155\075\146
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\011\060\202\001\216\240\003\002\001\002\002\015\002
\003\345\270\202\353\040\370\045\047\155\075\146\060\012\006\010
\052\206\110\316\075\004\003\003\060\107\061\013\060\011\006\003
\125\004\006\023\002\125\123\061\042\060\040\006\003\125\004\012
\023\031\107\157\157\147\154\145\040\124\162\165\163\164\040\123
\145\162\166\151\143\145\163\040\114\114\103\061\024\060\022\006
\003\125\004\003\023\013\107\124\123\040\122\157\157\164\040\122
\063\060\036\027\015\061\066\060\066\062\062\060\060\060\060\060
\060\132\027\015\063\066\060\066\062\062\060\060\060\060\060\060
\132\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154
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\145\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163
\040\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107
\124\123\040\122\157\157\164\040\122\063\060\166\060\020\006\007
\052\206\110\316\075\002\001\006\005\053\201\004\000\042\003\142
\000\004\037\117\063\207\063\051\212\241\204\336\313\307\041\130
\101\211\352\126\235\053\113\205\306\035\114\047\274\177\046\121
\162\157\342\237\326\243\312\314\105\024\106\213\255\357\176\206
\214\354\261\176\057\377\251\161\235\030\204\105\004\101\125\156
\053\352\046\177\273\220\001\343\113\031\272\344\124\226\105\011
\261\325\154\221\104\255\204\023\216\232\214\015\200\014\062\366
\340\047\243\102\060\100\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\206\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026
\004\024\301\361\046\272\240\055\256\205\201\317\323\361\052\022
\275\270\012\147\375\274\060\012\006\010\052\206\110\316\075\004
\003\003\003\151\000\060\146\002\061\000\366\341\040\225\024\173
\124\243\220\026\021\277\204\310\352\157\153\027\236\036\106\230
\040\233\237\323\015\331\254\323\057\315\174\370\133\056\125\273
\277\335\222\367\244\014\334\061\341\242\002\061\000\374\227\146
\146\345\103\026\023\203\335\307\337\057\276\024\070\355\001\316
\261\027\032\021\165\351\275\003\217\046\176\204\345\311\140\246
\225\327\124\131\267\347\021\054\211\324\271\356\027
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust
 for "GTS Root R3"
Issuer: CN=GTS Root R3,O=Google Trust Services LLC,C=US
Serial Number:02:03:e5:b8:82:eb:20:f8:25:27:6d:3d:66
Subject: CN=GTS Root R3,O=Google Trust Services LLC,C=US
Not Valid Before: Wed Jun 22 00:00:00 2016
Not Valid After : Sun Jun 22 00:00:00 2036
Fingerprint (SHA-256):
34:D8:A7:3E:E2:08:D9:BC:DB:0D:95:65:20:93:4B:4E:40:E6:94:82:59:6E:8B:6F:73:C8:42:6B:01:0A:6F:48
Fingerprint (SHA1): ED:E5:71:80:2B:C8:92:B9:5B:83:3C:D2:32:68:3F:09:CD:A0:1E:46
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\355\345\161\200\053\310\222\271\133\203\074\322\062\150\077\011
\315\240\036\106
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL

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\076\347\235\130\002\224\106\121\224\345\340\042\112\213\347\163
END
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\063
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\015\002\003\345\270\202\353\040\370\045\047\155\075\146
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "GTS Root R4"
#
# Issuer: CN=GTS Root R4,O=Google Trust Services LLC,C=US
# Serial Number:02:03:e5:c0:68:ef:63:1a:9c:72:90:50:52
# Subject: CN=GTS Root R4,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After : Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):
34:9D:FA:40:58:C5:E2:63:12:3B:39:8A:E7:95:57:3C:4E:13:13:C8:3F:E6:8F:93:55:6C:D5:E8:03:1B:3C:7D
# Fingerprint (SHA1): 77:D3:03:67:B5:E0:0C:15:F6:0C:38:61:DF:7C:E1:3B:92:46:4D:47
CKA_CLASS
 CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\064
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
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\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\064
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\003\345\300\150\357\143\032\234\162\220\120\122
END
CKA_VALUE
MULTILINE_OCTAL
\060\202\002\011\060\202\001\216\240\003\002\001\002\002\015\002
\003\345\300\150\357\143\032\234\162\220\120\122\060\012\006\010
\052\206\110\316\075\004\003\003\060\107\061\013\060\011\006\003
\125\004\006\023\002\125\123\061\042\060\040\006\003\125\004\012
\023\031\107\157\157\147\154\145\040\124\162\165\163\164\040\123
\145\162\166\151\143\145\163\040\114\114\103\061\024\060\022\006
\003\125\004\003\023\013\107\124\123\040\122\157\157\164\040\122
\064\060\036\027\015\061\066\060\066\062\062\060\060\060\060\060
\060\132\027\015\063\066\060\066\062\062\060\060\060\060\060\060
\132\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154
\145\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163
\040\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107
\124\123\040\122\157\157\164\040\122\064\060\166\060\020\006\007
\052\206\110\316\075\002\001\006\005\053\201\004\000\042\003\142
\000\004\363\164\163\247\150\213\140\256\103\270\065\305\201\060
\173\113\111\235\373\301\141\316\346\336\106\275\153\325\141\030
\065\256\100\335\163\367\211\221\060\132\353\074\356\205\174\242
\100\166\073\251\306\270\107\330\052\347\222\221\152\163\351\261
\162\071\237\051\237\242\230\323\137\136\130\206\145\017\241\204
\145\006\321\334\213\311\307\163\310\214\152\057\345\304\253\321
\035\212\243\102\060\100\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\206\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026
\004\024\200\114\326\353\164\377\111\066\243\325\330\374\265\076
\305\152\360\224\035\214\060\012\006\010\052\206\110\316\075\004
\003\003\003\151\000\060\146\002\061\000\350\100\377\203\336\003
\364\237\256\035\172\247\056\271\257\117\366\203\035\016\055\205
\001\035\321\331\152\354\017\302\257\307\136\126\136\134\325\034
\130\042\050\013\367\060\266\057\261\174\002\061\000\360\141\074
\247\364\240\202\343\041\325\204\035\163\206\234\055\257\312\064
\233\361\237\271\043\066\342\274\140\003\235\200\263\232\126\310
\341\342\273\024\171\312\315\041\324\224\265\111\103
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "GTS Root R4"

```
# Issuer: CN=GTS Root R4,O=Google Trust Services LLC,C=US
# Serial Number:02:03:e5:c0:68:ef:63:1a:9c:72:90:50:52
# Subject: CN=GTS Root R4,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After : Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):
34:9D:FA:40:58:C5:E2:63:12:3B:39:8A:E7:95:57:3C:4E:13:13:C8:3F:E6:8F:93:55:6C:D5:E8:03:1B:3C:7D
# Fingerprint (SHA1): 77:D3:03:67:B5:E0:0C:15:F6:0C:38:61:DF:7C:E1:3B:92:46:4D:47
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R4"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\167\323\003\147\265\340\014\025\366\014\070\141\337\174\341\073
\222\106\115\107
END
CKA_CERT_MD5_HASH
 MULTILINE_OCTAL
\103\226\203\167\031\115\166\263\235\145\122\344\035\042\245\350
END
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\064
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\003\345\300\150\357\143\032\234\162\220\120\122
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Telia Root CA v2"
#
# Issuer: CN=Telia Root CA v2,O=Telia Finland Oyj,C=FI
# Serial Number:01:67:5f:27:d6:fe:7a:e3:e4:ac:be:09:5b:05:9e
# Subject: CN=Telia Root
 CA v2,O=Telia Finland Oyj,C=FI
# Not Valid Before: Thu Nov 29 11:55:54 2018
# Not Valid After : Sun Nov 29 11:55:54 2043
# Fingerprint (SHA-256):
24:2B:69:74:2F:CB:1E:5B:2A:BF:98:89:8B:94:57:21:87:54:4E:5B:4D:99:11:78:65:73:62:1F:6A:74:B8:2C
# Fingerprint (SHA1): B9:99:CD:D1:73:50:8A:C4:47:05:08:9C:8C:88:FB:BE:A0:2B:40:CD
```

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Telia Root CA v2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\106\111\061
\032\060\030\006\003\125\004\012\014\021\124\145\154\151\141\040
\106\151\156\154\141\156\144\040\117\171\152\061\031\060\027\006
\003\125\004\003\014\020\124\145\154\151\141\040\122\157\157\164
\040\103\101\040\166\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\106\111\061
\032\060\030\006\003\125\004\012\014\021\124\145\154\151\141\040
\106\151\156\154\141\156\144\040\117\171\152\061\031\060\027\006
\003\125\004\003\014\020\124\145\154\151\141\040\122\157\157\164
\040\103\101\040\166\062
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\017\001\147\137\047\326\376\172\343\344\254\276\011\133\005
\236
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\164\060\202\003\134\240\003\002\001\002\002\017\001
\147\137\047\326\376\172\343\344\254\276\011\133\005\236\060\015
\006\011\052\206\110\206\367\015\001\001\013\005\000\060\104\061
\013\060\011\006\003\125\004\006\023\002\106\111\061\032\060\030
\006\003\125\004\012\014\021\124\145\154\151\141\040\106\151\156
\154\141\156\144\040\117\171\152\061\031\060\027\006\003\125\004
\003\014\020\124\145\154\151\141\040\122\157\157\164\040\103\101
\040\166\062\060\036\027\015\061\070\061\061\062\071\061\061\065
\065\065\064\132\027\015\064\063\061\061\062\071\061\061\065\065
\065\064\132\060\104\061\013\060\011\006\003\125\004\006\023\002
\106\111\061\032\060\030\006\003\125\004\012\014\021\124\145\154
\151\141\040\106\151\156\154\141\156\144\040\117\171\152\061\031
\060\027\006\003\125\004\003\014\020\124\145\154\151\141\040\122
\157\157\164\040\103\101\040\166\062\060\202\002\042\060\015\006
\011\052\206\110\206\367\015\001\001\001\005\000\003\202\002\017
\000\060\202\002\012\002\202\002\001\000\262\320\077\007\274\342
\173\320\153\231\370\342\167\151\347\316\235\244\003\274\202\155
\241\376\201\145\037\114\047\254\216\000\272\026\173\353\060\152
\000\300\263\164\150\176\262\257\307\325\142\263\172\077\120\312
\214\066\104\044\143\322\066\351\014\205\366\103\166\325\114\241
\140\162\147\342\050\063\245\313\061\270\072\042\043\064\270\175

\275\126\042\100\235\352\364\173\003\255\150\374\262\201\117\230
\320\164\352\215\345\175\315\143\303\243\366\336\222\302\130\031
\340\226\273\305\304\251\075\245\164\226\376\257\371\211\252\275
\225\027\124\330\170\104\361\014\167\025\222\340\230\102\247\244
\326\252\040\222\315\301\240\263\226\262\072\204\102\215\175\325
\225\344\326\333\351\142\304\130\263\171\305\214\323\065\063\203
\237\165\241\122\047\141\070\361\131\075\216\120\340\275\171\074
\347\154\226\376\136\331\002\145\264\216\134\320\021\064\337\135
\277\122\247\201\000\303\177\231\105\231\025\325\027\310\012\123
\354\143\363\231\175\314\151\022\206\302\027\360\001\236\277\204
\274\321\122\313\033\222\146\316\244\123\345\241\277\304\333\011
\326\346\211\126\053\310\343\174\336\343\377\211\345\065\156\050
\350\154\013\043\121\251\045\005\353\110\370\335\261\312\372\154
\010\121\357\267\030\154\104\312\046\341\163\306\211\006\201\345
\212\254\260\342\051\306\271\044\263\153\104\021\364\245\103\302
\114\103\345\160\066\214\266\063\127\172\225\056\202\240\364\134
\020\263\141\203\366\002\005\206\056\174\055\154\334\003\106\156
\065\223\325\172\225\057\336\040\330\133\176\224\220\004\152\272
\131\075\004\005\165\235\067\242\016\056\075\353\301\244\122\203
\376\320\153\324\146\216\334\306\351\022\116\035\052\127\252\020
\274\174\136\202\175\246\246\311\362\055\271\365\027\047\255\321
\016\211\124\053\225\372\300\255\035\230\024\170\063\102\206\012
\251\163\265\373\164\015\267\033\060\031\304\132\016\034\047\267
\332\030\320\377\212\310\005\272\361\252\034\242\067\267\346\110
\244\106\054\224\352\250\166\142\107\213\020\123\007\110\127\154
\342\222\115\266\256\005\313\334\301\112\136\217\254\075\031\116
\302\355\140\165\053\333\301\312\102\325\002\003\001\000\001\243
\143\060\141\060\037\006\003\125\035\043\004\030\060\026\200\024
\162\254\344\063\171\252\105\207\366\375\254\035\236\326\307\057
\206\330\044\071\060\035\006\003\125\035\016\004\026\004\024\162
\254\344\063\171\252\105\207\366\375\254\035\236\326\307\057\206
\330\044\071\060\016\006\003\125\035\017\001\001\377\004\004\003
\002\001\006\060\017\006\003\125\035\023\001\001\377\004\005\060
\003\001\001\377\060\015\006\011\052\206\110\206\367\015\001\001
\013\005\000\003\202\002\001\000\240\073\131\247\011\224\076\066
\204\322\176\057\071\245\226\227\372\021\255\374\147\363\161\011
\362\262\211\204\147\104\257\271\357\355\226\354\234\144\333\062
\060\157\147\232\254\176\137\262\253\001\066\176\201\372\344\204
\136\322\254\066\340\153\142\305\175\113\016\202\155\322\166\142
\321\376\227\370\237\060\174\030\371\264\122\167\202\035\166\333
\323\035\251\360\301\232\000\275\155\165\330\175\347\372\307\070
\243\234\160\350\106\171\003\257\056\164\333\165\370\156\123\014
\003\310\231\032\211\065\031\074\323\311\124\174\250\360\054\346
\156\007\171\157\152\341\346\352\221\202\151\012\035\303\176\131
\242\236\153\106\025\230\133\323\257\106\035\142\310\316\200\122
\111\021\077\311\004\022\303\023\174\077\073\212\226\333\074\240
\036\012\264\213\124\262\044\147\015\357\202\313\276\074\175\321
\342\177\256\026\326\126\130\271\332\040\261\203\025\241\357\212

\115\062\157\101\057\023\122\202\224\327\032\301\170\242\121\335
\053\160\155\267\032\371\367\260\340\147\227\126\333\174\141\123
\011\003\050\002\100\307\263\330\375\234\160\152\306\050\303\205
\351\342\355\032\223\240\336\113\230\242\204\076\005\167\001\226
\075\373\264\040\017\234\162\002\172\022\057\325\243\272\121\170
\257\052\053\104\145\116\265\375\012\350\301\315\171\207\141\053
\336\200\127\105\277\147\361\233\221\136\245\244\354\131\110\020
\015\070\307\260\372\303\104\155\004\365\170\120\034\222\226\133
\332\365\270\056\272\133\317\345\360\152\235\113\057\130\163\055
\117\055\304\034\076\364\263\077\253\025\016\073\031\101\212\244
\301\127\022\146\161\114\372\123\343\127\353\142\225\011\236\124
\335\321\302\074\127\074\275\070\255\230\144\267\270\003\232\123
\126\140\135\263\330\102\033\134\113\022\212\034\353\353\175\306
\172\151\307\047\177\244\370\213\362\344\224\146\207\113\351\224
\007\011\022\171\212\262\353\164\004\334\316\364\104\131\340\026
\312\305\054\130\327\074\173\317\142\206\152\120\175\065\066\146
\247\373\067\347\050\307\330\320\255\245\151\224\217\350\301\337
\044\370\033\007\061\207\201\330\135\366\350\050\330\112\122\200
\254\023\356\120\024\036\230\307
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Telia Root CA v2"
Issuer: CN=Telia Root CA v2,O=Telia Finland Oyj,C=FI
Serial Number:01:67:5f:27:d6:fe:7a:e3:e4:ac:be:09:5b:05:9e
Subject: CN=Telia Root CA v2,O=Telia Finland Oyj,C=FI
Not Valid Before: Thu Nov 29 11:55:54 2018
Not Valid After : Sun Nov 29 11:55:54 2043
Fingerprint (SHA-256):
24:2B:69:74:2F:CB:1E:5B:2A:BF:98:89:8B:94:57:21:87:54:4E:5B:4D:99:11:78:65:73:62:1F:6A:74:B8:2C
Fingerprint (SHA1): B9:99:CD:D1:73:50:8A:C4:47:05:08:9C:8C:88:FB:BE:A0:2B:40:CD
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Telia Root CA v2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\271\231\315\321\163\120\212\304\107\005\010\234\214\210\373\276
\240\053\100\315
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\016\217\254\252\202\337\205\261\364\334\020\034\374\231\331\110
END
CKA_ISSUER

```
 MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\106\111\061
\032\060\030\006\003\125\004\012\014\021\124\145\154\151\141\040
\106\151\156\154\141\156\144\040\117\171\152\061\031\060\027\006
\003\125\004\003\014\020\124\145\154\151\141\040\122\157\157\164
\040\103\101\040\166\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\017\001\147\137\047\326\376\172\343\344\254\276\011\133\005
\236
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "D-TRUST BR Root CA 1 2020"
#
# Issuer: CN=D-TRUST BR Root CA 1 2020,O=D-Trust GmbH,C=DE
# Serial Number:7c:c9:8f:2b:84:d7:df:ea:0f:c9:65:9a:d3:4b:4d:96
# Subject: CN=D-TRUST BR Root CA 1 2020,O=D-Trust GmbH,C=DE
# Not Valid Before: Tue Feb 11 09:45:00 2020
# Not Valid After : Sun Feb 11 09:44:59
 2035
# Fingerprint (SHA-256):
E5:9A:AA:81:60:09:C2:2B:FF:5B:25:BA:D3:7D:F3:06:F0:49:79:7C:1F:81:D8:5A:B0:89:E6:57:BD:8F:00:44
# Fingerprint (SHA1): 1F:5B:98:F0:E3:B5:F7:74:3C:ED:E6:B0:36:7D:32:CD:F4:09:41:67
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST BR Root CA 1 2020"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\023\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\042\060\040\006\003\125\004\003\023
\031\104\055\124\122\125\123\124\040\102\122\040\122\157\157\164
\040\103\101\040\061\040\062\060\062\060
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\023\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\042\060\040\006\003\125\004\003\023
\031\104\055\124\122\125\123\124\040\102\122\040\122\157\157\164
\040\103\101\040\061\040\062\060\062\060
```

END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\174\311\217\053\204\327\337\352\017\311\145\232\323\113
\115\226
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\333\060\202\002\140\240\003\002\001\002\002\020\174
\311\217\053\204\327\337\352\017\311\145\232\323\113\115\226\060
\012\006\010\052\206\110\316\075\004\003\003\060\110\061\013\060
\011\006\003\125\004\006\023\002\104\105\061\025\060\023\006\003
\125\004\012\023\014\104\055\124\162\165\163\164\040\107\155\142
\110\061\042\060\040\006\003\125\004\003\023\031\104\055\124\122
\125\123\124\040\102\122\040\122\157\157\164\040\103\101\040\061
\040\062\060\062\060\060\036\027\015\062\060\060\062\061\061\060
\071\064\065\060\060\132\027\015\063\065\060\062\061\061\060\071
\064\064\065\071\132\060\110\061\013\060\011\006\003\125\004\006
\023\002\104\105\061\025\060\023\006\003\125\004\012\023\014\104
\055\124\162\165\163\164\040\107\155\142\110\061\042\060\040\006
\003\125\004\003\023\031\104\055\124\122\125\123\124\040\102\122
\040\122\157\157\164\040\103\101\040\061\040\062\060\062\060\060
\166\060\020\006\007\052\206\110\316\075\002\001\006\005\053\201
\004\000\042\003\142\000\004\306\313\307\050\321\373\204\365\232
\357\102\024\040\341\103\153\156\165\255\374\053\003\204\324\166
\223\045\327\131\073\101\145\153\036\346\064\052\273\164\366\022
\316\350\155\347\253\344\074\116\077\104\010\213\315\026\161\313
\277\222\231\364\244\327\074\120\124\122\220\205\203\170\224\147
\147\243\034\011\031\075\165\064\205\336\355\140\175\307\014\264
\101\122\271\156\345\356\102\243\202\001\015\060\202\001\011\060
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377
\060\035\006\003\125\035\016\004\026\004\024\163\221\020\253\377
\125\263\132\174\011\045\325\262\272\010\240\153\253\037\155\060
\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060
\201\306\006\003\125\035\037\004\201\276\060\201\273\060\076\240
\074\240\072\206\070\150\164\164\160\072\057\057\143\162\154\056
\144\055\164\162\165\163\164\056\156\145\164\057\143\162\154\057
\144\055\164\162\165\163\164\137\142\162\137\162\157\157\164\137
\143\141\137\061\137\062\060\062\060\056\143\162\154\060\171\240
\167\240\165\206\163\154\144\141\160\072\057\057\144\151\162\145
\143\164\157\162\171\056\144\055\164\162\165\163\164\056\156\145
\164\057\103\116\075\104\055\124\122\125\123\124\045\062\060\102
\122\045\062\060\122\157\157\164\045\062\060\103\101\045\062\060
\061\045\062\060\062\060\062\060\054\117\075\104\055\124\162\165
\163\164\045\062\060\107\155\142\110\054\103\075\104\105\077\143
\145\162\164\151\146\151\143\141\164\145\162\145\166\157\143\141
\164\151\157\156\154\151\163\164\060\012\006\010\052\206\110\316
\075\004\003\003\003\151\000\060\146\002\061\000\224\220\055\023
\372\341\143\370\141\143\350\255\205\170\124\221\234\270\223\070

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\076\032\101\332\100\026\123\102\010\312\057\216\361\076\201\126
\300\252\330\355\030\304\260\256\364\076\372\046\002\061\000\363
\050\342\306\333\053\231\373\267\121\270\044\243\244\224\172\032
\077\346\066\342\003\127\063\212\060\313\202\307\326\024\021\325
\165\143\133\024\225\234\037\001\317\330\325\162\247\017\073
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "D-TRUST BR Root CA 1 2020"
# Issuer: CN=D-TRUST BR Root CA 1 2020,O=D-Trust GmbH,C=DE
# Serial Number:7c:c9:8f:2b:84:d7:df:ea:0f:c9:65:9a:d3:4b:4d:96
# Subject: CN=D-TRUST BR Root CA 1 2020,O=D-Trust GmbH,C=DE
# Not Valid Before: Tue Feb 11 09:45:00 2020
# Not Valid After : Sun Feb 11 09:44:59 2035
# Fingerprint (SHA-256):
E5:9A:AA:81:60:09:C2:2B:FF:5B:25:BA:D3:7D:F3:06:F0:49:79:7C:1F:81:D8:5A:B0:89:E6:57:BD:8F:00:44
# Fingerprint (SHA1): 1F:5B:98:F0:E3:B5:F7:74:3C:ED:E6:B0:36:7D:32:CD:F4:09:41:67
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE
 CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST BR Root CA 1 2020"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\037\133\230\360\343\265\367\164\074\355\346\260\066\175\062\315
\364\011\101\147
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\265\252\113\325\355\367\343\125\056\217\162\012\363\165\270\355
END
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\023\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\042\060\040\006\003\125\004\003\023
\031\104\055\124\122\125\123\124\040\102\122\040\122\157\157\164
\040\103\101\040\061\040\062\060\062\060
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\174\311\217\053\204\327\337\352\017\311\145\232\323\113
\115\226
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
```

```
#
# Certificate "D-TRUST EV Root CA 1
 2020"
#
# Issuer: CN=D-TRUST EV Root CA 1 2020,O=D-Trust GmbH,C=DE
# Serial Number:5f:02:41:d7:7a:87:7c:4c:03:a3:ac:96:8d:fb:ff:d0
# Subject: CN=D-TRUST EV Root CA 1 2020,O=D-Trust GmbH,C=DE
# Not Valid Before: Tue Feb 11 10:00:00 2020
# Not Valid After : Sun Feb 11 09:59:59 2035
# Fingerprint (SHA-256):
08:17:0D:1A:A3:64:53:90:1A:2F:95:92:45:E3:47:DB:0C:8D:37:AB:AA:BC:56:B8:1A:A1:00:DC:95:89:70:DB
# Fingerprint (SHA1): 61:DB:8C:21:59:69:03:90:D8:7C:9C:12:86:54:CF:9D:3D:F4:DD:07
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST EV Root CA 1 2020"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\023\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\042\060\040\006\003\125\004\003\023
\031\104\055\124\122\125\123\124\040\105\126\040\122\157\157\164
\040\103\101\040\061\040\062\060\062\060
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\023\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\042\060\040\006\003\125\004\003\023
\031\104\055\124\122\125\123\124\040\105\126\040\122\157\157\164
\040\103\101\040\061\040\062\060\062\060
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\137\002\101\327\172\207\174\114\003\243\254\226\215\373
\377\320
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\333\060\202\002\140\240\003\002\001\002\002\020\137
\002\101\327\172\207\174\114\003\243\254\226\215\373\377\320\060
\012\006\010\052\206\110\316\075\004\003\003\060\110\061\013\060
\011\006\003\125\004\006\023\002\104\105\061\025\060\023\006\003
\125\004\012\023\014\104\055\124\162\165\163\164\040\107\155\142
\110\061\042\060\040\006\003\125\004\003\023\031\104\055\124\122
\125\123\124\040\105\126\040\122\157\157\164\040\103\101\040\061
\040\062\060\062\060\060\036\027\015\062\060\060\062\061\061\061
```

\060\060\060\060\060\132\027\015\063\065\060\062\061\061\060\071
\065\071\065\071\132\060\110\061\013\060\011\006\003\125\004\006
\023\002\104\105\061\025\060\023\006\003\125\004\012\023\014\104
\055\124\162\165\163\164\040\107\155\142\110\061\042\060\040\006
\003\125\004\003\023\031\104\055\124\122\125\123\124\040\105\126
\040\122\157\157\164\040\103\101\040\061\040\062\060\062\060\060
\166\060\020\006\007\052\206\110\316\075\002\001\006\005\053\201
\004\000\042\003\142\000\004\361\013\335\206\103\040\031\337\227
\205\350\042\112\233\317\235\230\277\264\005\046\311\313\343\246
\322\217\305\236\170\173\061\211\251\211\255\047\074\145\020\202
\374\337\303\235\116\360\063\043\304\322\062\365\034\260\337\063
\027\135\305\360\261\212\371\357\271\267\024\312\051\112\302\017
\251\177\165\145\111\052\060\147\364\144\367\326\032\167\332\303
\302\227\141\102\173\111\255\243\202\001\015\060\202\001\011\060
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377
\060\035\006\003\125\035\016\004\026\004\024\177\020\001\026\067
\072\244\050\344\120\370\244\367\354\153\062\266\376\351\213\060
\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060
\201\306\006\003\125\035\037\004\201\276\060\201\273\060\076\240
\074\240\072\206\070\150\164\164\160\072\057\057\143\162\154\056
\144\055\164\162\165\163\164\056\156\145\164\057\143\162\154\057
\144\055\164\162\165\163\164\137\145\166\137\162\157\157\164\137
\143\141\137\061\137\062\060\062\060\056\143\162\154\060\171\240
\167\240\165\206\163\154\144\141\160\072\057\057\144\151\162\145
\143\164\157\162\171\056\144\055\164\162\165\163\164\056\156\145
\164\057\103\116\075\104\055\124\122\125\123\124\045\062\060\105
\126\045\062\060\122\157\157\164\045\062\060\103\101\045\062\060
\061\045\062\060\062\060\062\060\054\117\075\104\055\124\162\165
\163\164\045\062\060\107\155\142\110\054\103\075\104\105\077\143
\145\162\164\151\146\151\143\141\164\145\162\145\166\157\143\141
\164\151\157\156\154\151\163\164\060\012\006\010\052\206\110\316
\075\004\003\003\003\151\000\060\146\002\061\000\312\074\306\052
\165\302\136\165\142\071\066\000\140\132\213\301\223\231\314\331
\333\101\073\073\207\231\027\073\325\314\117\312\042\367\240\200
\313\371\264\261\033\126\365\162\322\374\031\321\002\061\000\221
\367\060\223\077\020\106\053\161\244\320\073\104\233\300\051\002
\005\262\101\167\121\363\171\132\236\216\024\240\116\102\322\133
\201\363\064\152\003\347\042\070\120\133\355\031\117\103\026
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "D-TRUST EV Root CA 1 2020"
Issuer: CN=D-TRUST EV Root CA 1 2020,O=D-Trust GmbH,C=DE
Serial Number:5f:02:41:d7:7a:87:7c:4c:03:a3:ac:96:8d:fb:ff:d0
Subject: CN=D-TRUST EV Root CA 1 2020,O=D-Trust GmbH,C=DE

```
# Not Valid Before: Tue Feb 11 10:00:00 2020
# Not Valid After : Sun Feb 11 09:59:59 2035
# Fingerprint (SHA-256):
08:17:0D:1A:A3:64:53:90:1A:2F:95:92:45:E3:47:DB:0C:8D:37:AB:AA:BC:56:B8:1A:A1:00:DC:95:89:70:DB
#
 Fingerprint (SHA1): 61:DB:8C:21:59:69:03:90:D8:7C:9C:12:86:54:CF:9D:3D:F4:DD:07
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST EV Root CA 1 2020"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\141\333\214\041\131\151\003\220\330\174\234\022\206\124\317\235
\075\364\335\007
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\214\055\235\160\237\110\231\021\006\021\373\351\313\060\300\156
END
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\023\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\042\060\040\006\003\125\004\003\023
\031\104\055\124\122\125\123\124\040\105\126\040\122\157\157\164
\040\103\101\040\061\040\062\060\062\060
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\137\002\101\327\172\207\174\114\003\243\254\226\215\373
\377\320
END
CKA_TRUST_SERVER_AUTH
 CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "DigiCert TLS ECC P384 Root G5"
#
# Issuer: CN=DigiCert TLS ECC P384 Root G5,O="DigiCert, Inc.",C=US
# Serial Number:09:e0:93:65:ac:f7:d9:c8:b9:3e:1c:0b:04:2a:2e:f3
# Subject: CN=DigiCert TLS ECC P384 Root G5,O="DigiCert, Inc.",C=US
# Not Valid Before: Fri Jan 15 00:00:00 2021
# Not Valid After : Sun Jan 14 23:59:59 2046
# Fingerprint (SHA-256):
01:8E:13:F0:77:25:32:CF:80:9B:D1:B1:72:81:86:72:83:FC:48:C6:E1:3B:E9:C6:98:12:85:4A:49:0C:1B:05
# Fingerprint (SHA1): 17:F3:DE:5E:9F:0F:19:E9:8E:F6:1F:32:26:6E:20:C4:07:AE:30:EE
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
```

CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert TLS ECC P384 Root G5"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE
 CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\046\060\044\006\003\125\004
\003\023\035\104\151\147\151\103\145\162\164\040\124\114\123\040
\105\103\103\040\120\063\070\064\040\122\157\157\164\040\107\065
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\046\060\044\006\003\125\004
\003\023\035\104\151\147\151\103\145\162\164\040\124\114\123\040
\105\103\103\040\120\063\070\064\040\122\157\157\164\040\107\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\011\340\223\145\254\367\331\310\271\076\034\013\004\052
\056\363
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\031\060\202\001\237\240\003\002\001\002\002\020\011
\340\223\145\254\367\331\310\271\076\034\013\004\052\056\363\060
\012\006\010\052\206\110\316\075\004\003\003\060\116\061\013\060
\011\006\003\125\004\006\023\002\125\123\061\027\060\025\006\003
\125\004\012\023\016\104\151\147\151\103\145\162\164\054\040\111
\156\143\056\061\046\060\044\006\003\125\004\003\023\035\104\151
\147\151\103\145\162\164\040\124\114\123\040\105\103\103\040\120
\063\070\064\040\122\157\157\164\040\107\065\060\036\027\015\062
\061\060\061\061\065\060\060\060\060\060\060\132\027\015\064\066
\060\061\061\064\062\063\065\071\065\071\132\060\116\061\013\060
\011\006\003\125\004\006\023\002\125\123\061\027\060\025\006\003
\125\004\012\023\016\104\151\147\151\103\145\162\164\054\040\111
\156\143\056\061\046\060\044\006\003\125\004\003\023\035\104\151
\147\151\103\145\162\164\040\124\114\123\040\105\103\103\040\120
\063\070\064\040\122\157\157\164\040\107\065\060\166\060\020\006
\007\052\206\110\316\075\002\001\006\005\053\201\004\000\042\003
\142\000\004\301\104\241\317\021\227\120\232\336\043\202\065\007
\315\320\313\030\235\322\361\177\167\065\117\073\335\224\162\122
\355\302\073\370\354\372\173\153\130\040\354\231\256\311\374\150
\263\165\271\333\011\354\310\023\365\116\306\012\035\146\060\114
\273\037\107\012\074\141\020\102\051\174\245\010\016\340\042\351
\323\065\150\316\233\143\237\204\265\231\115\130\240\216\365\124
\347\225\311\243\102\060\100\060\035\006\003\125\035\016\004\026

\004\024\301\121\105\120\131\253\076\347\054\132\372\040\042\022
\007\200\210\174\021\152\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\206\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\001\001\377\060\012\006\010\052\206\110\316\075
\004\003\003\003\150\000\060\145\002\061\000\211\152\215\107\347
\354\374\156\125\003\331\147\154\046\116\203\306\375\311\373\053
\023\274\267\172\214\264\145\322\151\151\143\023\143\073\046\120
\056\001\241\171\006\221\235\110\277\302\276\002\060\107\303\025
\173\261\240\221\231\111\223\250\074\174\350\106\006\213\054\362
\061\000\224\235\142\310\211\275\031\204\024\351\245\373\001\270
\015\166\103\214\056\123\313\174\337\014\027\226\120
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "DigiCert TLS ECC P384 Root G5"
Issuer: CN=DigiCert TLS ECC P384 Root G5,O="DigiCert, Inc.",C=US
Serial Number:09:e0:93:65:ac:f7:d9:c8:b9:3e:1c:0b:04:2a:2e:f3
Subject: CN=DigiCert TLS ECC P384 Root G5,O="DigiCert, Inc.",C=US
Not Valid Before: Fri Jan 15 00:00:00 2021
Not Valid After : Sun Jan 14 23:59:59 2046
Fingerprint (SHA-256):
01:8E:13:F0:77:25:32:CF:80:9B:D1:B1:72:81:86:72:83:FC:48:C6:E1:3B:E9:C6:98:12:85:4A:49:0C:1B:05
Fingerprint (SHA1): 17:F3:DE:5E:9F:0F:19:E9:8E:F6:1F:32:26:6E:20:C4:07:AE:30:EE
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert TLS ECC P384 Root G5"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\027\363\336\136\237\017\031\351\216\366\037\062\046\156\040\304
\007\256\060\356
END
CKA_CERT_MD5_HASH
MULTILINE_OCTAL
\323\161\004\152\103\034\333\246\131\341\250\243\252\305\161\355
END
CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\046\060\044\006\003\125\004
\003\023\035\104\151\147\151\103\145\162\164\040\124\114\123\040
\105\103\103\040\120\063\070\064\040\122\157\157\164\040\107\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\011\340\223\145\254\367\331\310\271\076\034\013\004\052

\056\363
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "DigiCert TLS RSA4096 Root G5"
#
Issuer: CN=DigiCert TLS RSA4096 Root G5,O="DigiCert, Inc.",C=US
Serial Number:08:f9:b4:78:a8:fa:7e:da:6a:33:37:89:de:7c:cf:8a
#
 Subject: CN=DigiCert TLS RSA4096 Root G5,O="DigiCert, Inc.",C=US
Not Valid Before: Fri Jan 15 00:00:00 2021
Not Valid After : Sun Jan 14 23:59:59 2046
Fingerprint (SHA-256):
37:1A:00:DC:05:33:B3:72:1A:7E:EB:40:E8:41:9E:70:79:9D:2B:0A:0F:2C:1D:80:69:31:65:F7:CE:C4:AD:75
Fingerprint (SHA1): A7:88:49:DC:5D:7C:75:8C:8C:DE:39:98:56:B3:AA:D0:B2:A5:71:35
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert TLS RSA4096 Root G5"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\045\060\043\006\003\125\004
\003\023\034\104\151\147\151\103\145\162\164\040\124\114\123\040
\122\123\101\064\060\071\066\040\122\157\157\164\040\107\065
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\045\060\043\006\003\125\004
\003\023\034\104\151\147\151\103\145\162\164\040\124\114\123\040
\122\123\101\064\060\071\066\040\122\157\157\164\040\107\065
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\010\371\264\170\250\372\176\332\152\063\067\211\336\174
\317\212
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\146\060\202\003\116\240\003\002\001\002\002\020\010
\371\264\170\250\372\176\332\152\063\067\211\336\174\317\212\060

\015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\115
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\027\060
\025\006\003\125\004\012\023\016\104\151\147\151\103\145\162\164
\054\040\111\156\143\056\061\045\060\043\006\003\125\004\003\023
\034\104\151\147\151\103\145\162\164\040\124\114\123\040\122\123
\101\064\060\071\066\040\122\157\157\164\040\107\065\060\036\027
\015\062\061\060\061\061\065\060\060\060\060\060\060\132\027\015
\064\066\060\061\061\064\062\063\065\071\065\071\132\060\115\061
\013\060\011\006\003\125\004\006\023\002\125\123\061\027\060\025
\006\003\125\004\012\023\016\104\151\147\151\103\145\162\164\054
\040\111\156\143\056\061\045\060\043\006\003\125\004\003\023\034
\104\151\147\151\103\145\162\164\040\124\114\123\040\122\123\101
\064\060\071\066\040\122\157\157\164\040\107\065\060\202\002\042
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\002\017\000\060\202\002\012\002\202\002\001\000\263\320\364
\311\171\021\235\375\374\146\201\347\314\325\344\274\354\201\076
\152\065\216\056\267\347\336\257\371\007\115\317\060\235\352\011
\013\231\275\154\127\332\030\112\270\170\254\072\071\250\246\110
\254\056\162\345\275\353\361\032\315\347\244\003\251\077\021\264
\330\057\211\026\373\224\001\075\273\057\370\023\005\241\170\034
\216\050\340\105\340\203\364\131\033\225\263\256\176\003\105\345
\276\302\102\376\356\362\074\266\205\023\230\062\235\026\250\051
\302\013\034\070\334\237\061\167\134\277\047\243\374\047\254\267
\053\275\164\233\027\055\362\201\332\135\260\341\043\027\076\210
\112\022\043\320\352\317\235\336\003\027\261\102\112\240\026\114
\244\155\223\351\077\072\356\072\174\235\130\235\364\116\217\374
\073\043\310\155\270\342\005\332\314\353\354\303\061\364\327\247
\051\124\200\317\104\133\114\157\060\236\363\314\335\037\224\103
\235\115\177\160\160\015\324\072\321\067\360\154\235\233\300\024
\223\130\357\315\101\070\165\274\023\003\225\174\177\343\134\351
\325\015\325\342\174\020\142\252\153\360\075\166\363\077\243\350
\260\301\375\357\252\127\115\254\206\247\030\264\051\301\054\016
\277\144\276\051\214\330\002\055\315\134\057\362\177\357\025\364
\014\025\254\012\260\361\323\015\117\152\115\167\227\001\240\361
\146\267\267\316\357\316\354\354\245\165\312\254\343\341\143\367
\270\241\004\310\274\173\077\135\055\026\042\126\355\110\111\376
\247\057\171\060\045\233\272\153\055\077\235\073\304\027\347\035
\056\373\362\317\246\374\343\024\054\226\230\041\214\264\221\351
\031\140\203\362\060\053\006\163\120\325\230\073\006\351\307\212
\014\140\214\050\370\122\233\156\341\366\115\273\006\044\233\327
\053\046\077\375\052\057\161\365\326\044\276\177\061\236\017\155
\350\217\117\115\243\077\377\065\352\337\111\136\101\217\206\371
\361\167\171\113\033\264\243\136\057\373\106\002\320\146\023\136
\136\205\117\316\330\160\210\173\316\001\265\226\227\327\315\175
\375\202\370\302\044\301\312\001\071\117\215\242\301\024\100\037
\234\146\325\014\011\106\326\362\320\321\110\166\126\072\103\313
\266\012\021\071\272\214\023\154\006\265\236\317\353\002\003\001
\000\001\243\102\060\100\060\035\006\003\125\035\016\004\026\004

\024\121\063\034\355\066\100\257\027\323\045\315\151\150\362\257
\116\043\076\263\101\060\016\006\003\125\035\017\001\001\377\004
\004\003\002\001\206\060\017\006\003\125\035\023\001\001\377\004
\005\060\003\001\001\377\060\015\006\011\052\206\110\206\367\015
\001\001\014\005\000\003\202\002\001\000\140\246\257\133\137\127
\332\211\333\113\120\251\304\043\065\041\377\320\141\060\204\221
\267\077\020\317\045\216\311\277\106\064\331\301\041\046\034\160
\031\162\036\243\311\207\376\251\103\144\226\072\310\123\004\012
\266\101\273\304\107\000\331\237\030\030\073\262\016\363\064\352
\044\367\335\257\040\140\256\222\050\137\066\347\135\344\336\307
\074\333\120\071\255\273\075\050\115\226\174\166\306\133\364\301
\333\024\245\253\031\142\007\030\100\137\227\221\334\234\307\253
\265\121\015\346\151\123\125\314\071\175\332\305\021\125\162\305
\073\213\211\370\064\055\244\027\345\027\346\231\175\060\210\041
\067\315\060\027\075\270\362\274\250\165\240\103\334\076\211\113
\220\256\155\003\340\034\243\240\226\011\273\175\243\267\052\020
\104\113\106\007\064\143\355\061\271\004\356\243\233\232\256\346
\061\170\364\352\044\141\073\253\130\144\377\273\207\047\142\045
\201\337\334\241\057\366\355\247\377\172\217\121\056\060\370\244
\001\322\205\071\137\001\231\226\157\132\133\160\031\106\376\206
\140\076\255\200\020\011\335\071\045\057\130\177\273\322\164\360
\367\106\037\106\071\112\330\123\320\363\056\073\161\245\324\157
\374\363\147\344\007\217\335\046\031\341\215\133\372\243\223\021
\233\351\310\072\303\125\150\232\222\341\122\166\070\350\341\272
\275\373\117\325\357\263\347\110\203\061\360\202\041\343\266\276
\247\253\157\357\237\337\114\317\001\270\142\152\043\075\347\011
\115\200\033\173\060\244\303\335\007\177\064\276\244\046\262\366
\101\350\011\035\343\040\230\252\067\117\377\367\361\342\051\160
\061\107\077\164\320\024\026\372\041\212\002\325\212\011\224\167
\056\362\131\050\213\174\120\222\012\146\170\070\203\165\304\265
\132\250\021\306\345\301\235\146\125\317\123\304\257\327\165\205
\251\102\023\126\354\041\167\201\223\132\014\352\226\331\111\312
\241\010\362\227\073\155\233\004\030\044\104\216\174\001\362\334
\045\330\136\206\232\261\071\333\365\221\062\152\321\246\160\212
\242\367\336\244\105\205\046\250\036\214\135\051\133\310\113\330
\232\152\003\136\160\362\205\117\154\113\150\057\312\124\366\214
\332\062\376\303\153\203\077\070\306\176
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "DigiCert TLS RSA4096 Root G5"
Issuer: CN=DigiCert TLS RSA4096 Root G5,O="DigiCert, Inc.",C=US
Serial Number:08:f9:b4:78:a8:fa:7e:da:6a:33:37:89:de:7c:cf:8a
Subject: CN=DigiCert TLS RSA4096 Root G5,O="DigiCert, Inc.",C=US
Not Valid Before: Fri Jan 15 00:00:00 2021

```
# Not Valid After : Sun Jan 14 23:59:59 2046
# Fingerprint (SHA-256):
37:1A:00:DC:05:33:B3:72:1A:7E:EB:40:E8:41:9E:70:79:9D:2B:0A:0F:2C:1D:80:69:31:65:F7:CE:C4:AD:75
# Fingerprint (SHA1): A7:88:49:DC:5D:7C:75:8C:8C:DE:39:98:56:B3:AA:D0:B2:A5:71:35
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert TLS RSA4096 Root G5"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\247\210\111\334\135\174\165\214\214\336\071\230\126\263\252\320
\262\245\161\065
END
CKA_CERT_MD5_HASH
 MULTILINE_OCTAL
\254\376\367\064\226\251\362\263\264\022\113\344\047\101\157\341
END
CKA_ISSUER MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\045\060\043\006\003\125\004
\003\023\034\104\151\147\151\103\145\162\164\040\124\114\123\040
\122\123\101\064\060\071\066\040\122\157\157\164\040\107\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\010\371\264\170\250\372\176\332\152\063\067\211\336\174
\317\212
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "DigiCert SMIME ECC P384 Root G5"
#
# Issuer: CN=DigiCert SMIME ECC P384 Root G5,O="DigiCert, Inc.",C=US
# Serial Number:05:3f:6e:a0:06:01:72:7d:ed:3f:c3:a3:b6:a3:d6:ef
#
 Subject: CN=DigiCert SMIME ECC P384 Root G5,O="DigiCert, Inc.",C=US
# Not Valid Before: Fri Jan 15 00:00:00 2021
# Not Valid After : Sun Jan 14 23:59:59 2046
# Fingerprint (SHA-256):
E8:E8:17:65:36:A6:0C:C2:C4:E1:01:87:C3:BE:FC:A2:0E:F2:63:49:70:18:F5:66:D5:BE:A0:F9:4D:0C:11:1B
# Fingerprint (SHA1): 1C:B8:A7:08:C9:0D:20:79:01:A0:B2:36:7F:F0:95:65:E4:53:24:FE
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
```

CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert SMIME ECC P384 Root G5"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\120\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\003\023\037\104\151\147\151\103\145\162\164\040\123\115\111\115
\105\040\105\103\103\040\120\063\070\064\040\122\157\157\164\040
\107\065
END
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\120\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\003\023\037\104\151\147\151\103\145\162\164\040\123\115\111\115
\105\040\105\103\103\040\120\063\070\064\040\122\157\157\164\040
\107\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\005\077\156\240\006\001\162\175\355\077\303\243\266\243
\326\357
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\034\060\202\001\243\240\003\002\001\002\002\020\005
\077\156\240\006\001\162\175\355\077\303\243\266\243\326\357\060
\012\006\010\052\206\110\316\075\004\003\003\060\120\061\013\060
\011\006\003\125\004\006\023\002\125\123\061\027\060\025\006\003
\125\004\012\023\016\104\151\147\151\103\145\162\164\054\040\111
\156\143\056\061\050\060\046\006\003\125\004\003\023\037\104\151
\147\151\103\145\162\164\040\123\115\111\115\105\040\105\103\103
\040\120\063\070\064\040\122\157\157\164\040\107\065\060\036\027
\015\062\061\060\061\061\065\060\060\060\060\060\060\132\027\015
\064\066\060\061\061\064\062\063\065\071\065\071\132\060\120\061
\013\060\011\006\003\125\004\006\023\002\125\123\061\027\060\025
\006\003\125\004\012\023\016\104\151\147\151\103\145\162\164\054
\040\111\156\143\056\061\050\060\046\006\003\125\004\003\023\037
\104\151\147\151\103\145\162\164\040\123\115\111\115\105\040\105
\103\103\040\120\063\070\064\040\122\157\157\164\040\107\065\060
\166\060\020\006\007\052\206\110\316\075\002\001\006\005\053\201
\004\000\042\003\142\000\004\026\235\125\345\266\324\373\373\147
\153\032\324\241\252\322\167\225\076\210\345\007\237\266\160\146
\040\050\244\210\354\160\065\257\263\062\377\067\023\112\236\274
\001\003\336\204\301\270\306\346\145\107\211\362\023\125\277\315
\245\036\010\140\177\255\177\350\141\222\051\317\011\107\136\013
\034\300\037\244\277\362\133\274\230\357\231\114\314\160\153\266

\272\320\050\035\277\276\004\243\102\060\100\060\035\006\003\125
\035\016\004\026\004\024\163\172\153\226\333\102\007\213\122\146
\302\144\062\027\376\340\147\220\056\255\060\016\006\003\125\035
\017\001\001\377\004\004\003\002\001\206\060\017\006\003\125\035
\023\001\001\377\004\005\060\003\001\001\377\060\012\006\010\052
\206\110\316\075\004\003\003\003\147\000\060\144\002\060\067\104
\365\062\200\343\161\353\364\155\317\174\314\221\232\303\156\161
\330\322\043\135\222\115\202\102\155\134\141\225\366\221\365\247
\010\366\152\227\351\234\224\055\230\160\375\063\266\011\002\060
\007\074\057\271\130\202\136\017\243\142\250\223\147\360\040\303
\151\277\003\054\073\120\247\073\257\101\070\311\122\110\221\326
\016\373\274\140\060\174\144\077\022\036\105\177\121\076\364\246
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "DigiCert SMIME ECC P384 Root G5"
Issuer: CN=DigiCert SMIME ECC P384 Root G5,O="DigiCert, Inc.",C=US
#
Serial Number:05:3f:6e:a0:06:01:72:7d:ed:3f:c3:a3:b6:a3:d6:ef
Subject: CN=DigiCert SMIME ECC P384 Root G5,O="DigiCert, Inc.",C=US
Not Valid Before: Fri Jan 15 00:00:00 2021
Not Valid After : Sun Jan 14 23:59:59 2046
Fingerprint (SHA-256):
E8:E8:17:65:36:A6:0C:C2:C4:E1:01:87:C3:BE:FC:A2:0E:F2:63:49:70:18:F5:66:D5:BE:A0:F9:4D:0C:11:1B
Fingerprint (SHA1): 1C:B8:A7:08:C9:0D:20:79:01:A0:B2:36:7F:F0:95:65:E4:53:24:FE
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert SMIME ECC P384 Root G5"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\034\270\247\010\311\015\040\171\001\240\262\066\177\360\225\145
\344\123\044\376
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\246\376\364\122\066\104\330\356\015\267\003\013\357\164\263\003
END
CKA_ISSUER MULTILINE_OCTAL
\060\120\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\003\023\037\104\151\147\151\103\145\162\164\040\123\115\111\115
\105\040\105\103\103\040\120\063\070\064\040\122\157\157\164\040
\107\065
END

```
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\005\077\156\240\006\001\162\175\355\077\303\243\266\243
\326\357
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "DigiCert SMIME RSA4096 Root G5"
#
# Issuer: CN=DigiCert SMIME RSA4096 Root G5,O="DigiCert, Inc.",C=US
# Serial Number:05:f6:ba:04:23:83:46:cb:7d:5c:e6:b9:5b:ba:1c:55
# Subject: CN=DigiCert SMIME RSA4096 Root G5,O="DigiCert, Inc.",C=US
# Not Valid Before: Fri Jan 15 00:00:00 2021
# Not Valid After : Sun Jan 14 23:59:59 2046
# Fingerprint (SHA-256):
90:37:0D:3E:FA:88:BF:58:C3:01:05:BA:25:10:4A:35:84:60:A7:FA:52:DF:C2:01:1D:F2:33:A0:F4:17:91:2A
# Fingerprint
 (SHA1): 5B:C5:AD:E2:9A:A7:54:DA:84:89:53:A5:FE:D7:5B:46:86:D0:57:08
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert SMIME RSA4096 Root G5"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\047\060\045\006\003\125\004
\003\023\036\104\151\147\151\103\145\162\164\040\123\115\111\115
\105\040\122\123\101\064\060\071\066\040\122\157\157\164\040\107
\065
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\047\060\045\006\003\125\004
\003\023\036\104\151\147\151\103\145\162\164\040\123\115\111\115
\105\040\122\123\101\064\060\071\066\040\122\157\157\164\040\107
\065
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\005\366\272\004\043\203\106\313\175\134\346\271\133\272
```

\034\125
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\152\060\202\003\122\240\003\002\001\002\002\020\005
\366\272\004\043\203\106\313\175\134\346\271\133\272\034\125\060
\015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\117
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\027\060
\025\006\003\125\004\012\023\016\104\151\147\151\103\145\162\164
\054\040\111\156\143\056\061\047\060\045\006\003\125\004\003\023
\036\104\151\147\151\103\145\162\164\040\123\115\111\115\105\040
\122\123\101\064\060\071\066\040\122\157\157\164\040\107\065\060
\036\027\015\062\061\060\061\061\065\060\060\060\060\060\060\132
\027\015\064\066\060\061\061\064\062\063\065\071\065\071\132\060
\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061\027
\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145\162
\164\054\040\111\156\143\056\061\047\060\045\006\003\125\004\003
\023\036\104\151\147\151\103\145\162\164\040\123\115\111\115\105
\040\122\123\101\064\060\071\066\040\122\157\157\164\040\107\065
\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001
\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001
\000\340\152\133\331\370\371\175\354\265\173\357\137\335\134\064
\330\332\135\321\313\145\165\253\041\174\133\000\324\202\157\105
\205\101\212\251\022\002\162\062\360\024\365\003\165\273\143\227
\111\017\100\231\013\032\036\126\247\322\320\341\253\335\345\004
\033\343\037\024\022\002\210\365\240\200\011\366\047\232\120\360
\272\343\242\340\254\152\024\221\265\153\070\020\172\242\061\341
\221\033\267\271\360\053\133\310\167\011\166\267\121\304\066\012
\231\123\124\104\045\267\011\065\206\027\005\126\223\075\101\267
\002\327\142\037\212\222\021\207\352\021\155\352\010\021\334\261
\170\110\111\222\366\264\121\200\170\043\330\376\341\126\032\072
\220\023\126\064\211\325\342\225\213\137\336\262\314\373\077\070
\267\205\367\352\236\277\056\241\056\057\115\175\152\021\056\066
\240\377\021\010\004\225\125\340\033\073\147\223\251\224\125\352
\062\355\006\072\177\302\177\343\255\023\047\321\064\101\263\060
\303\277\264\210\370\003\202\244\337\076\253\170\167\240\131\223
\161\347\335\353\000\004\173\314\110\071\050\340\036\243\025\151
\310\066\262\241\013\227\337\125\326\357\221\234\244\366\026\367
\121\012\356\003\043\221\334\004\377\340\335\070\366\042\003\000
\302\007\161\032\022\311\327\106\052\224\033\315\326\273\033\356
\277\276\115\120\130\260\013\315\060\166\051\365\317\345\266\152
\057\166\260\260\151\152\320\155\145\030\065\176\223\274\162\027
\301\125\102\315\057\302\045\273\364\375\035\241\144\042\124\135
\342\236\162\101\204\156\161\226\352\105\007\266\136\172\112\206
\235\163\144\167\070\003\322\017\123\245\125\040\304\115\377\150
\157\125\251\352\335\161\344\117\331\205\243\174\116\051\002\236
\013\011\362\032\123\314\000\246\335\321\064\366\015\301\060\261
\234\002\144\254\065\355\245\260\051\261\322\225\063\017\322\040
\063\275\354\043\113\362\031\371\332\230\144\344\054\061\037\056

\341\215\034\004\225\050\115\214\130\315\113\345\163\202\206\214
\354\250\326\171\134\373\144\273\334\014\114\050\366\027\257\342
\150\326\026\206\230\333\374\001\334\061\272\370\234\016\371\050
\106\112\341\375\226\006\105\171\021\150\027\145\134\213\046\207
\133\002\003\001\000\001\243\102\060\100\060\035\006\003\125\035
\016\004\026\004\024\321\243\324\127\035\117\125\333\165\114\134
\102\236\143\026\316\264\306\073\037\060\016\006\003\125\035\017
\001\001\377\004\004\003\002\001\206\060\017\006\003\125\035\023
\001\001\377\004\005\060\003\001\001\377\060\015\006\011\052\206
\110\206\367\015\001\001\014\005\000\003\202\002\001\000\007\247
\012\336\123\273\232\353\160\277\262\066\220\315\344\247\270\361
\014\344\135\132\035\170\145\374\311\270\036\043\021\127\174\151
\065\155\001\377\123\120\277\007\016\272\307\001\077\130\052\224
\165\003\253\034\013\043\334\033\212\036\067\075\035\130\217\163
\331\263\052\157\337\020\240\133\014\247\312\260\177\271\044\242
\001\065\062\345\136\106\101\353\330\177\163\347\102\351\244\121
\046\167\201\012\250\353\017\012\120\235\176\212\040\147\374\013
\216\072\021\323\305\214\140\030\331\113\261\374\324\361\264\111
\116\256\207\341\321\373\166\241\137\363\006\317\227\226\014\351
\236\165\201\134\123\015\042\374\066\346\111\156\164\333\000\205
\215\174\042\240\216\373\020\114\324\142\023\133\357\113\162\046
\213\374\116\212\217\376\227\020\123\305\170\213\102\144\033\137
\340\211\375\273\011\177\120\340\124\205\046\021\152\035\145\371
\111\051\334\174\066\337\373\075\367\322\254\356\062\215\156\246
\175\071\234\105\304\312\015\365\073\264\171\123\245\057\126\307
\121\305\212\114\144\135\220\103\043\216\153\114\027\170\314\350
\277\365\073\344\250\110\317\255\233\014\337\062\112\323\331\022
\216\043\170\015\055\257\237\257\236\074\011\302\227\000\355\072
\151\034\161\077\071\337\323\217\304\146\365\357\066\224\017\363
\335\222\266\226\137\220\246\335\163\252\246\040\224\224\045\152
\011\014\162\344\023\043\140\114\243\312\027\056\173\147\000\333
\320\315\352\172\037\071\046\127\211\060\167\313\116\345\225\105
\117\137\373\066\134\075\371\040\265\072\020\045\117\223\062\132
\356\301\226\350\351\126\004\260\111\141\115\354\170\250\235\030
\301\377\330\352\057\126\357\225\053\173\004\136\147\343\125\100
\355\071\004\371\013\171\365\152\214\134\017\211\232\220\307\315
\213\336\333\046\065\241\156\315\263\102\362\242\017\073\014\216
\223\377\024\317\374\367\223\367\344\101\010\156\031\122\021\017
\123\031\163\170\014\317\330\205\201\370\255\125\310\260\236\106
\143\257\234\122\356\134\277\360\300\133\067\036\011\040\322\076
\043\306\241\025\112\016\066\176\060\305\171\152\274\042\210\331
\014\122\100\037\335\116\017\147\046\026\322\255\027\034
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

```
# Trust for "DigiCert SMIME
 RSA4096 Root G5"
# Issuer: CN=DigiCert SMIME RSA4096 Root G5,O="DigiCert, Inc.",C=US
# Serial Number:05:f6:ba:04:23:83:46:cb:7d:5c:e6:b9:5b:ba:1c:55
# Subject: CN=DigiCert SMIME RSA4096 Root G5,O="DigiCert, Inc.",C=US
# Not Valid Before: Fri Jan 15 00:00:00 2021
# Not Valid After : Sun Jan 14 23:59:59 2046
# Fingerprint (SHA-256):
90:37:0D:3E:FA:88:BF:58:C3:01:05:BA:25:10:4A:35:84:60:A7:FA:52:DF:C2:01:1D:F2:33:A0:F4:17:91:2A
# Fingerprint (SHA1): 5B:C5:AD:E2:9A:A7:54:DA:84:89:53:A5:FE:D7:5B:46:86:D0:57:08
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert SMIME RSA4096 Root G5"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\133\305\255\342\232\247\124\332\204\211\123\245\376\327\133\106
\206\320\127\010
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\321\173\340\265\077\065\162\237\175\276\013\245\244\035\251\156
END
CKA_ISSUER MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\047\060\045\006\003\125\004
\003\023\036\104\151\147\151\103\145\162\164\040\123\115\111\115
\105\040\122\123\101\064\060\071\066\040\122\157\157\164\040\107
\065
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\005\366\272\004\043\203\106\313\175\134\346\271\133\272
\034\125
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Certainly Root R1"
#
# Issuer: CN=Certainly Root R1,O=Certainly,C=US
# Serial Number:00:8e:0f:f9:4b:90:71:68:65:33:54:f4:d4:44:39:b7:e0
# Subject: CN=Certainly Root R1,O=Certainly,C=US
# Not Valid Before: Thu Apr 01 00:00:00 2021
# Not Valid After : Sun Apr 01 00:00:00 2046
```

Fingerprint (SHA-256):
77:B8:2C:D8:64:4C:43:05:F7:AC:C5:CB:15:6B:45:67:50:04:03:3D:51:C6:0C:62:02:A8:E0:C3:34:67:D3:A0
#
Fingerprint (SHA1): A0:50:EE:0F:28:71:F4:27:B2:12:6D:6F:50:96:25:BA:CC:86:42:AF
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certainly Root R1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\075\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\103\145\162\164\141\151
\156\154\171\061\032\060\030\006\003\125\004\003\023\021\103\145
\162\164\141\151\156\154\171\040\122\157\157\164\040\122\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\075\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\103\145\162\164\141\151
\156\154\171\061\032\060\030\006\003\125\004\003\023\021\103\145
\162\164\141\151\156\154\171\040\122\157\157\164\040\122\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\216\017\371\113\220\161\150\145\063\124\364\324\104
\071\267\340
END
CKA_VALUE
MULTILINE_OCTAL
\060\202\005\107\060\202\003\057\240\003\002\001\002\002\021\000
\216\017\371\113\220\161\150\145\063\124\364\324\104\071\267\340
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\075\061\013\060\011\006\003\125\004\006\023\002\125\123\061\022
\060\020\006\003\125\004\012\023\011\103\145\162\164\141\151\156
\154\171\061\032\060\030\006\003\125\004\003\023\021\103\145\162
\164\141\151\156\154\171\040\122\157\157\164\040\122\061\060\036
\027\015\062\061\060\064\060\061\060\060\060\060\060\060\132\027
\015\064\066\060\064\060\061\060\060\060\060\060\060\132\060\075
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\022\060
\020\006\003\125\004\012\023\011\103\145\162\164\141\151\156\154
\171\061\032\060\030\006\003\125\004\003\023\021\103\145\162\164
\141\151\156\154\171\040\122\157\157\164\040\122\061\060\202\002
\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000
\003\202\002\017\000\060\202\002\012\002\202\002\001\000\320\066
\324\037\352\335\253\344\321\266\346\373\042\300\335\023\015\152
\173\042\023\034\227\074\150\143\146\062\234\003\265\215\244\201
\203\332\170\060\021\317\334\262\053\276\222\277\216\344\304\023
\276\244\150\114\332\002\150\026\164\276\262\335\004\344\153\052

\335\067\037\140\054\333\365\367\241\174\225\267\014\160\206\056
\361\072\357\122\367\314\323\233\371\213\276\016\337\061\267\235
\150\134\222\246\365\345\363\012\064\265\377\173\242\344\207\241
\306\257\027\000\357\003\221\355\251\034\116\161\075\322\213\154
\211\364\170\206\346\152\111\240\316\265\322\260\253\233\366\364
\324\056\343\162\371\066\306\353\025\267\045\214\072\374\045\015
\263\042\163\041\164\310\112\226\141\222\365\057\013\030\245\364
\255\342\356\101\275\001\171\372\226\214\215\027\002\060\264\371
\257\170\032\214\264\066\020\020\007\005\160\320\364\061\220\212
\121\305\206\046\171\262\021\210\136\305\360\012\124\315\111\246
\277\002\234\322\104\247\355\343\170\357\106\136\155\161\321\171
\160\034\106\137\121\351\311\067\334\137\176\151\173\101\337\064
\105\340\073\204\364\241\212\012\066\236\067\314\142\122\341\211
\015\050\371\172\043\261\015\075\075\232\375\235\201\357\054\220
\300\173\104\116\273\111\340\016\112\126\222\274\313\265\335\171
\027\211\221\336\141\211\164\222\250\343\062\205\276\116\205\244
\113\131\313\053\305\170\216\161\124\320\002\067\231\214\345\111
\352\340\124\162\244\021\006\057\013\214\301\133\276\265\241\260
\123\156\234\270\140\221\037\131\153\371\055\364\224\012\227\265
\354\305\166\003\124\033\145\122\272\114\222\126\121\065\240\100
\330\051\333\256\122\166\073\055\060\100\233\212\320\102\126\264
\267\210\001\244\207\073\123\226\315\243\026\217\363\146\252\027
\261\307\140\340\301\103\005\014\356\233\133\140\157\006\134\207
\133\047\371\100\021\236\234\063\301\267\345\065\127\005\177\047
\316\027\040\214\034\374\361\373\332\061\051\111\355\365\013\204
\247\117\301\366\116\302\050\234\372\356\340\257\007\373\063\021
\172\041\117\013\041\020\266\100\072\253\042\072\004\234\213\233
\204\206\162\232\322\247\245\304\264\165\221\251\053\043\002\003
\001\000\001\243\102\060\100\060\016\006\003\125\035\017\001\001
\377\004\004\003\002\001\006\060\017\006\003\125\035\023\001\001
\377\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004
\026\004\024\340\252\077\045\215\237\104\134\301\072\350\056\256
\167\114\204\076\147\014\364\060\015\006\011\052\206\110\206\367
\015\001\001\013\005\000\003\202\002\001\000\271\127\257\270\022
\332\127\203\217\150\013\063\035\003\123\125\364\225\160\344\053
\075\260\071\353\372\211\142\375\367\326\030\004\057\041\064\335
\361\150\360\325\226\132\336\302\200\243\301\215\306\152\367\131
\167\256\025\144\317\133\171\005\167\146\352\214\323\153\015\335
\361\131\054\301\063\245\060\200\025\105\007\105\032\061\042\266
\222\000\253\231\115\072\217\167\257\251\042\312\057\143\312\025
\326\307\306\360\075\154\374\034\015\230\020\141\236\021\242\042
\327\012\362\221\172\153\071\016\057\060\303\066\111\237\340\351
\017\002\104\120\067\224\125\175\352\237\366\073\272\224\245\114
\351\274\076\121\264\350\312\222\066\124\155\134\045\050\332\335
\255\024\375\323\356\342\042\005\353\320\362\267\150\022\327\132
\212\101\032\306\222\245\132\073\143\105\117\277\341\072\167\042
\057\134\277\106\371\132\003\205\023\102\137\312\336\123\327\142
\265\246\065\004\302\107\377\231\375\204\337\134\316\351\136\200

\050\101\362\175\347\036\220\330\117\166\076\202\074\015\374\245
\003\372\173\032\331\105\036\140\332\304\216\371\374\053\311\173
\225\305\052\377\252\211\337\202\061\017\162\377\014\047\327\012
\036\126\000\120\036\014\220\301\226\265\330\024\205\273\247\015
\026\301\370\007\044\033\272\205\241\032\005\011\200\272\225\143
\311\072\354\045\237\177\235\272\244\107\025\233\104\160\361\152
\113\326\070\136\103\363\030\176\120\156\351\132\050\346\145\346
\167\033\072\375\035\276\003\046\243\333\324\341\273\176\226\047
\053\035\356\244\373\332\045\124\023\003\336\071\306\303\037\115
\220\354\217\033\112\322\034\355\205\225\070\120\171\106\326\301
\220\120\061\251\134\232\156\035\365\063\126\213\247\231\322\362
\310\054\063\223\222\060\307\116\214\145\063\020\144\027\375\044
\027\226\321\215\302\072\152\053\353\023\213\104\362\041\363\112
\032\267\167\137\327\355\210\244\162\345\071\037\225\235\276\147
\301\160\021\075\273\364\370\111\267\343\046\227\072\237\322\137
\174\373\300\231\174\071\051\340\173\035\277\015\247\217\322\051
\064\156\044\025\313\336\220\136\277\032\304\146\352\302\346\272
\071\137\212\231\251\101\131\007\260\054\257
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Certainly Root R1"
Issuer: CN=Certainly Root R1,O=Certainly,C=US
Serial Number:00:8e:0f:f9:4b:90:71:68:65:33:54:f4:d4:44:39:b7:e0
Subject: CN=Certainly Root R1,O=Certainly,C=US
Not Valid Before: Thu Apr 01 00:00:00 2021
Not Valid After : Sun Apr 01 00:00:00 2046
Fingerprint
(SHA-256):
77:B8:2C:D8:64:4C:43:05:F7:AC:C5:CB:15:6B:45:67:50:04:03:3D:51:C6:0C:62:02:A8:E0:C3:34:67:D3:A0
Fingerprint (SHA1): A0:50:EE:0F:28:71:F4:27:B2:12:6D:6F:50:96:25:BA:CC:86:42:AF
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certainly Root R1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\240\120\356\017\050\161\364\047\262\022\155\157\120\226\045\272
\314\206\102\257
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\007\160\324\076\202\207\240\372\063\066\023\364\372\063\347\022
END
CKA_ISSUER MULTILINE_OCTAL
\060\075\061\013\060\011\006\003\125\004\006\023\002\125\123\061

```
\022\060\020\006\003\125\004\012\023\011\103\145\162\164\141\151
\156\154\171\061\032\060\030\006\003\125\004\003\023\021\103\145
\162\164\141\151\156\154\171\040\122\157\157\164\040\122\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\216\017\371\113\220\161\150\145\063\124\364\324\104
\071\267\340
END
CKA_TRUST_SERVER_AUTH
 CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Certainly Root E1"
#
# Issuer: CN=Certainly Root E1,O=Certainly,C=US
# Serial Number:06:25:33:b1:47:03:33:27:5c:f9:8d:9a:b9:bf:cc:f8
# Subject: CN=Certainly Root E1,O=Certainly,C=US
# Not Valid Before: Thu Apr 01 00:00:00 2021
# Not Valid After : Sun Apr 01 00:00:00 2046
# Fingerprint (SHA-256):
B4:58:5F:22:E4:AC:75:6A:4E:86:12:A1:36:1C:5D:9D:03:1A:93:FD:84:FE:BB:77:8F:A3:06:8B:0F:C4:2D:C2
# Fingerprint (SHA1): F9:E1:6D:DC:01:89:CF:D5:82:45:63:3E:C5:37:7D:C2:EB:93:6F:2B
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certainly Root E1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\075\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\103\145\162\164\141\151
\156\154\171\061\032\060\030\006\003\125\004\003\023\021\103\145
\162\164\141\151\156\154\171\040\122\157\157\164\040\105\061
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\075\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\103\145\162\164\141\151
\156\154\171\061\032\060\030\006\003\125\004\003\023\021\103\145
\162\164\141\151\156\154\171\040\122\157\157\164\040\105\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\006\045\063\261\107\003\063\047\134\371\215\232\271\277
\314\370
```

```
END
CKA_VALUE MULTILINE_OCTAL
\060\202\001\367\060\202\001\175\240\003\002\001\002\002\020\006
\045\063\261\107\003\063\047\134\371\215\232\271\277\314\370\060
\012\006\010\052\206\110\316\075\004\003\003\060\075\061\013\060
\011\006\003\125\004\006\023\002\125\123\061\022\060\020\006\003
\125\004\012\023\011\103\145\162\164\141\151\156\154\171\061\032
\060\030\006\003\125\004\003\023\021\103\145\162\164\141\151\156
\154\171\040\122\157\157\164\040\105\061\060\036\027\015\062\061
\060\064\060\061\060\060\060\060\060\060\132\027\015\064\066\060
\064\060\061\060\060\060\060\060\060\132\060\075\061\013\060\011
\006\003\125\004\006\023\002\125\123\061\022\060\020\006\003\125
\004\012\023\011\103\145\162\164\141\151\156\154\171\061\032\060
\030\006\003\125\004\003\023\021\103\145\162\164\141\151\156\154
\171\040\122\157\157\164\040\105\061\060\166\060\020\006\007\052
\206\110\316\075\002\001\006\005\053\201\004\000\042\003\142\000
\004\336\157\370\177\034\337\355\371\107\207\206\261\244\300\212
\370\202\227\200\352\217\310\112\136\052\175\210\150\247\001\142
\024\221\044\172\134\236\243\027\175\212\206\041\064\030\120\033
\020\336\320\067\113\046\307\031\140\200\351\064\275\140\031\066
\100\326\051\207\011\074\221\172\366\274\023\043\335\131\116\004
\136\317\310\002\034\030\123\301\061\330\332\040\351\104\215\344
\166\243\102\060\100\060\016\006\003\125\035\017\001\001\377\004
\004\003\002\001\006\060\017\006\003\125\035\023\001\001\377\004
\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026\004
\024\363\050\030\313\144\165\356\051\052\353\355\256\043\130\070
\205\353\310\042\007\060\012\006\010\052\206\110\316\075\004\003
\003\003\150\000\060\145\002\061\000\261\216\132\040\303\262\031
\142\115\336\260\117\337\156\322\160\212\361\237\176\152\214\346
\272\336\203\151\312\151\263\251\005\265\226\222\027\207\302\322
\352\320\173\316\330\101\133\174\256\002\060\106\336\352\313\135
\232\354\062\302\145\026\260\114\060\134\060\363\332\116\163\206
\006\330\316\211\004\110\067\067\370\335\063\121\235\160\257\173
\125\330\001\056\175\005\144\016\206\270\221
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Certainly Root E1"
# Issuer: CN=Certainly Root E1,O=Certainly,C=US
# Serial Number:06:25:33:b1:47:03:33:27:5c:f9:8d:9a:b9:bf:cc:f8
# Subject:
 CN=Certainly Root E1,O=Certainly,C=US
# Not Valid Before: Thu Apr 01 00:00:00 2021
# Not Valid After : Sun Apr 01 00:00:00 2046
# Fingerprint (SHA-256):
```

```
B4:58:5F:22:E4:AC:75:6A:4E:86:12:A1:36:1C:5D:9D:03:1A:93:FD:84:FE:BB:77:8F:A3:06:8B:0F:C4:2D:C2
# Fingerprint (SHA1): F9:E1:6D:DC:01:89:CF:D5:82:45:63:3E:C5:37:7D:C2:EB:93:6F:2B
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certainly Root E1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\371\341\155\334\001\211\317\325\202\105\143\076\305\067\175\302
\353\223\157\053
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\012\236\312\315\076\122\120\306\066\363\113\243\355\247\123\351
END
CKA_ISSUER MULTILINE_OCTAL
\060\075\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\103\145\162\164\141\151
\156\154\171\061\032\060\030\006\003\125\004\003\023\021\103\145
\162\164\141\151\156\154\171\040\122\157\157\164\040\105\061
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\006\045\063\261\107\003\063\047\134\371\215\232\271\277
\314\370
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "DIGITALSIGN GLOBAL ROOT RSA CA"
#
# Issuer: CN=DIGITALSIGN GLOBAL ROOT RSA CA,O=DigitalSign Certificadora Digital,C=PT
# Serial Number:5d:59:c8:ca:ab:09:57:f5:e6:b5:da:29:94:04:6a:ff:c5:d4:95:87
# Subject: CN=DIGITALSIGN GLOBAL ROOT RSA CA,O=DigitalSign Certificadora Digital,C=PT
# Not Valid Before: Thu Jan 21 10:50:34 2021
# Not Valid After : Mon Jan 15 10:50:34 2046
# Fingerprint (SHA-256):
82:BD:5D:85:1A:CF:7F:6E:1B:A7:BF:CB:C5:30:30:D0:E7:BC:3C:21:DF:77:2D:85:8C:AB:41:D1:99:BD:F5:95
# Fingerprint (SHA1): B9:82:07:97:AE:52:A5:68:6F:46:07:DF:FD:03:72:3D:92:86:88:2D
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL
 CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DIGITALSIGN GLOBAL ROOT RSA CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
```

CKA_SUBJECT MULTILINE_OCTAL
\060\142\061\013\060\011\006\003\125\004\006\023\002\120\124\061
\052\060\050\006\003\125\004\012\014\041\104\151\147\151\164\141
\154\123\151\147\156\040\103\145\162\164\151\146\151\143\141\144
\157\162\141\040\104\151\147\151\164\141\154\061\047\060\045\006
\003\125\004\003\014\036\104\111\107\111\124\101\114\123\111\107
\116\040\107\114\117\102\101\114\040\122\117\117\124\040\122\123
\101\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\142\061\013\060\011\006\003\125\004\006\023\002\120\124\061
\052\060\050\006\003\125\004\012\014\041\104\151\147\151\164\141
\154\123\151\147\156\040\103\145\162\164\151\146\151\143\141\144
\157\162\141\040\104\151\147\151\164\141\154\061\047\060\045\006
\003\125\004\003\014\036\104\111\107\111\124\101\114\123\111\107
\116\040\107\114\117\102\101\114\040\122\117\117\124\040\122\123
\101\040\103\101
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\024\135\131\310\312\253\011\127\365\346\265\332\051\224\004
\152\377\305\324\225\207
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\265\060\202\003\235\240\003\002\001\002\002\024\135
\131\310\312\253\011\127\365\346\265\332\051\224\004\152\377\305
\324\225\207\060\015\006\011\052\206\110\206\367\015\001\001\015
\005\000\060\142\061\013\060\011\006\003\125\004\006\023\002\120
\124\061\052\060\050\006\003\125\004\012\014\041\104\151\147\151
\164\141\154\123\151\147\156\040\103\145\162\164\151\146\151\143
\141\144\157\162\141\040\104\151\147\151\164\141\154\061\047\060
\045\006\003\125\004\003\014\036\104\111\107\111\124\101\114\123
\111\107\116\040\107\114\117\102\101\114\040\122\117\117\124\040
\122\123\101\040\103\101\060\036\027\015\062\061\060\061\062\061
\061\060\065\060\063\064\132\027\015\064\066\060\061\061\065\061
\060\065\060\063\064\132\060\142\061\013\060\011\006\003\125\004
\006\023\002\120\124\061\052\060\050\006\003\125\004\012\014\041
\104\151\147\151\164\141\154\123\151\147\156\040\103\145\162\164
\151\146\151\143\141\144\157\162\141\040\104\151\147\151\164\141
\154\061\047\060\045\006\003\125\004\003\014\036\104\111\107\111
\124\101\114\123\111\107\116\040\107\114\117\102\101\114\040\122
\117\117\124\040\122\123\101\040\103\101\060\202\002\042\060\015
\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\002
\017\000\060\202\002\012\002\202\002\001\000\310\207\266\070\323
\034\360\336\022\370\203\307\304\212\342\211\270\264\042\172\170
\370\014\146\121\150\166\067\012\325\117\302\132\010\270\026\134
\367\162\001\011\067\204\201\052\124\153\327\222\320\154\372\250

\247\103\022\064\353\016\333\067\017\051\376\212\061\121\102\350
\113\234\220\250\310\054\021\323\375\240\051\176\316\336\224\366
\202\340\130\264\116\105\045\361\042\362\075\323\017\173\124\032
\334\062\266\326\121\116\176\101\264\127\270\054\306\271\016\056
\312\127\361\325\310\323\130\347\245\351\102\021\256\323\040\045
\224\151\327\217\312\242\015\303\323\237\007\150\077\025\322\147
\056\123\375\166\202\233\013\163\251\051\015\236\021\223\024\010
\230\354\236\124\022\112\126\242\006\025\354\153\154\056\222\140
\056\206\015\256\202\037\121\115\343\262\007\327\020\031\127\042
\366\251\151\104\204\363\331\075\240\006\277\314\210\176\177\365
\316\133\245\302\052\152\164\102\352\157\246\377\371\150\261\320
\137\275\221\322\125\157\063\127\114\036\235\344\342\213\301\205
\145\240\340\152\234\000\000\210\222\335\130\010\026\362\160\061
\250\034\341\336\275\116\161\351\326\276\176\265\241\132\303\115
\367\277\233\275\224\244\375\365\252\123\223\106\311\046\001\004
\160\304\240\161\272\316\045\146\373\221\176\125\160\356\111\012
\115\142\177\302\120\232\162\362\030\147\235\351\105\250\064\204
\350\370\201\366\321\132\042\036\007\117\073\263\177\335\021\245
\163\334\276\251\031\072\151\251\155\033\062\342\211\252\245\047
\013\132\176\164\342\017\144\071\135\176\134\271\301\027\374\307
\215\136\311\354\044\355\322\362\077\172\204\105\067\002\276\076
\153\131\304\346\133\026\155\300\252\236\252\265\131\056\054\160
\125\234\314\231\226\230\044\124\321\216\332\312\264\021\264\267
\160\103\037\157\220\013\040\240\250\166\023\145\333\333\043\132
\165\113\241\013\061\167\012\356\175\150\141\032\023\214\352\121
\176\134\126\243\127\114\135\241\353\023\145\277\124\024\314\363
\356\334\327\354\074\227\362\170\126\270\337\162\134\160\374\316
\006\335\237\322\007\061\357\347\122\221\236\315\272\327\300\030
\104\007\061\145\111\062\151\023\112\353\217\002\003\001\000\001
\243\143\060\141\060\017\006\003\125\035\023\001\001\377\004\005
\060\003\001\001\377\060\037\006\003\125\035\043\004\030\060\026
\200\024\265\066\274\074\214\032\253\054\366\131\031\055\203\024
\332\223\045\025\326\206\060\035\006\003\125\035\016\004\026\004
\024\265\066\274\074\214\032\253\054\366\131\031\055\203\024\332
\223\045\025\326\206\060\016\006\003\125\035\017\001\001\377\004
\004\003\002\001\006\060\015\006\011\052\206\110\206\367\015\001
\001\015\005\000\003\202\002\001\000\024\373\061\045\070\061\370
\312\010\262\043\166\070\255\370\323\131\365\314\264\127\045\341
\104\276\176\374\026\354\256\372\046\237\117\147\026\112\126\360
\375\355\307\031\001\064\216\220\132\055\326\200\134\354\161\322
\201\045\202\036\000\161\337\232\321\325\035\042\273\321\245\363
\142\017\264\353\334\044\163\376\246\126\315\232\024\305\004\065
\026\061\242\007\353\245\000\342\266\370\137\162\375\077\141\111
\216\336\176\115\070\327\172\036\164\067\154\121\334\276\000\004
\270\070\024\363\040\301\355\233\247\043\375\015\102\204\035\177
\362\163\303\320\170\143\361\237\354\327\133\351\361\276\154\240
\113\003\236\215\151\341\024\332\210\020\201\043\123\377\332\124
\053\013\306\271\226\225\004\030\106\363\173\250\227\330\133\150

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\244\344\070\034\016\105\345\230\323\011\256\232\136\354\263\171
\015\071\162\362\364\224\235\016\236\140\042\346\250\366\114\205
\315\007\202\072\150\071\315\075\137\343\070\364\266\257\073\153
\112\237\140\121\105\242\100\002\345\252\014\343\076\321\170\324
\242\164\234\046\272\005\232\050\160\112\076\246\013\320\035\111
\360\272\370\256\101\020\176\244\007\022\275\250\317\051\075\127
\273\307\361\103\107\000\076\256\160\030\132\040\173\011\313\072
\072\160\200\345\114\140\230\301\025\301\035\112\367\310\360\233
\341\162\255\347\135\150\130\013\004\261\214\274\237\267\373\156
\213\133\004\125\373\353\043\125\327\170\120\332\045\313\276\047
\066\273\044\032\171\034\121\321\376\023\273\377\170\054\334\244
\276\057\366\305\113\123\317\247\114\231\136\160\254\131\210\004
\256\144\004\277\173\246\172\115\323\350\167\275\241\176\120\025
\363\357\111\060\205\115\041\127\252\333\054\165\227\255\201\001
\207\242\261\160\235\036\006\132\003\140\261\077\246\155\202\054
\324\024\261\201\245\350\075\210\035\264\162\054\130\067\212\216
\070\224\270\163\335\251\340\270\366\167\242\263\174\130\336\256
\151\072\265\213\245\032\273\362\330\164\006\234\375\142\163\040
\041\166\261\176\160\236\031\324\353\027\142\031\070\231\315\066
\053\107\376\061\313\337\271\344\254\010\323\330\246\353\324\236
\176\113\144\244\125\135\053\027\311
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "DIGITALSIGN GLOBAL ROOT RSA CA"
# Issuer: CN=DIGITALSIGN GLOBAL ROOT RSA CA,O=DigitalSign Certificadora Digital,C=PT
# Serial Number:5d:59:c8:ca:ab:09:57:f5:e6:b5:da:29:94:04:6a:ff:c5:d4:95:87
# Subject: CN=DIGITALSIGN GLOBAL ROOT RSA CA,O=DigitalSign Certificadora Digital,C=PT
# Not Valid Before: Thu Jan 21 10:50:34 2021
# Not Valid After : Mon Jan 15 10:50:34 2046
# Fingerprint (SHA-256):
82:BD:5D:85:1A:CF:7F:6E:1B:A7:BF:CB:C5:30:30:D0:E7:BC:3C:21:DF:77:2D:85:8C:AB:41:D1:99:BD:F5:95
# Fingerprint (SHA1): B9:82:07:97:AE:52:A5:68:6F:46:07:DF:FD:03:72:3D:92:86:88:2D
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE
 CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DIGITALSIGN GLOBAL ROOT RSA CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\271\202\007\227\256\122\245\150\157\106\007\337\375\003\162\075
\222\206\210\055
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\033\032\275\032\171\306\333\264\355\263\207\314\251\323\116\170
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END
CKA_ISSUER MULTILINE_OCTAL
\060\142\061\013\060\011\006\003\125\004\006\023\002\120\124\061
\052\060\050\006\003\125\004\012\014\041\104\151\147\151\164\141
\154\123\151\147\156\040\103\145\162\164\151\146\151\143\141\144
\157\162\141\040\104\151\147\151\164\141\154\061\047\060\045\006
\003\125\004\003\014\036\104\111\107\111\124\101\114\123\111\107
\116\040\107\114\117\102\101\114\040\122\117\117\124\040\122\123
\101\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\135\131\310\312\253\011\127\365\346\265\332\051\224\004
\152\377\305\324\225\207
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING
 CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "DIGITALSIGN GLOBAL ROOT ECDSA CA"
#
# Issuer: CN=DIGITALSIGN GLOBAL ROOT ECDSA CA,O=DigitalSign Certificadora Digital,C=PT
# Serial Number:36:2d:8f:72:88:a2:28:27:e4:00:ff:24:c6:2d:e4:eb:fa:9d:b6:e1
# Subject: CN=DIGITALSIGN GLOBAL ROOT ECDSA CA,O=DigitalSign Certificadora Digital,C=PT
# Not Valid Before: Thu Jan 21 11:07:50 2021
# Not Valid After : Mon Jan 15 11:07:50 2046
# Fingerprint (SHA-256):
26:1D:71:14:AE:5F:8F:F2:D8:C7:20:9A:9D:E4:28:9E:6A:FC:9D:71:70:23:D8:54:50:90:91:99:F1:85:7C:FE
# Fingerprint (SHA1): 67:A8:08:EB:8F:88:F5:80:6C:05:45:1B:17:F3:D7:00:2F:D2:4A:8A
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DIGITALSIGN GLOBAL ROOT ECDSA CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\144\061\013\060\011\006\003\125\004\006\023\002\120\124\061
\052\060\050\006\003\125\004\012\014\041\104\151\147\151\164\141
\154\123\151\147\156\040\103\145\162\164\151\146\151\143\141\144
\157\162\141\040\104\151\147\151\164\141\154\061\051\060\047\006
\003\125\004\003\014\040\104\111\107\111\124\101\114\123\111\107
\116\040\107\114\117\102\101\114\040\122\117\117\124\040\105\103
\104\123\101\040\103\101
END
CKA_ID
```

UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\144\061\013\060\011\006\003\125\004\006\023\002\120\124\061
\052\060\050\006\003\125\004\012\014\041\104\151\147\151\164\141
\154\123\151\147\156\040\103\145\162\164\151\146\151\143\141\144
\157\162\141\040\104\151\147\151\164\141\154\061\051\060\047\006
\003\125\004\003\014\040\104\111\107\111\124\101\114\123\111\107
\116\040\107\114\117\102\101\114\040\122\117\117\124\040\105\103
\104\123\101\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\066\055\217\162\210\242\050\047\344\000\377\044\306\055
\344\353\372\235\266\341
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\152\060\202\001\360\240\003\002\001\002\002\024\066
\055\217\162\210\242\050\047\344\000\377\044\306\055\344\353\372
\235\266\341\060\012\006\010\052\206\110\316\075\004\003\003\060
\144\061\013\060\011\006\003\125\004\006\023\002\120\124\061\052
\060\050\006\003\125\004\012\014\041\104\151\147\151\164\141\154
\123\151\147\156\040\103\145\162\164\151\146\151\143\141\144\157
\162\141\040\104\151\147\151\164\141\154\061\051\060\047\006\003
\125\004\003\014\040\104\111\107\111\124\101\114\123\111\107\116
\040\107\114\117\102\101\114\040\122\117\117\124\040\105\103\104
\123\101\040\103\101\060\036\027\015\062\061\060\061\062\061\061
\061\060\067\065\060\132\027\015\064\066\060\061\061\065\061\061
\060\067\065\060\132\060\144\061\013\060\011\006\003\125\004\006
\023\002\120\124\061\052\060\050\006\003\125\004\012\014\041\104
\151\147\151\164\141\154\123\151\147\156\040\103\145\162\164\151
\146\151\143\141\144\157\162\141\040\104\151\147\151\164\141\154
\061\051\060\047\006\003\125\004\003\014\040\104\111\107\111\124
\101\114\123\111\107\116\040\107\114\117\102\101\114\040\122\117
\117\124\040\105\103\104\123\101\040\103\101\060\166\060\020\006
\007\052\206\110\316\075\002\001\006\005\053\201\004\000\042\003
\142\000\004\156\013\243\253\063\115\034\352\112\350\374\004\215
\024\240\175\360\010\054\137\203\253\223\321\322\173\272\327\111
\175\217\354\022\120\137\324\271\313\345\360\371\063\143\037\311
\127\354\100\330\021\013\227\350\122\026\314\051\216\364\006\206
\036\070\334\075\127\304\356\252\275\310\124\004\046\132\047\023
\121\107\075\037\037\032\216\250\225\244\063\320\314\107\314\155
\270\374\110\243\143\060\141\060\017\006\003\125\035\023\001\001
\377\004\005\060\003\001\001\377\060\037\006\003\125\035\043\004
\030\060\026\200\024\316\257\112\213\032\165\342\361\070\347\002
\360\026\255\136\352\144\325\173\264\060\035\006\003\125\035\016
\004\026\004\024\316\257\112\213\032\165\342\361\070\347\002\360
\026\255\136\352\144\325\173\264\060\016\006\003\125\035\017\001
\001\377\004\004\003\002\001\006\060\012\006\010\052\206\110\316
\075\004\003\003\003\150\000\060\145\002\060\012\210\304\161\234

\104\003\115\215\264\307\274\250\256\331\060\047\065\152\153\026
\143\327\374\347\131\341\247\211\033\114\061\232\043\125\104\346
\363\103\041\325\107\047\157\155\127\001\252\002\061\000\373\262
\352\342\227\177\121\265\237\110\353\274\157\065\211\250\144\160
\253\127\166\315\300\306\024\140\312\177\342\202\000\163\367\314
\065\352\216\044\233\345\010\131\307\004\214\163\170\376
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "DIGITALSIGN GLOBAL ROOT ECDSA CA"
Issuer: CN=DIGITALSIGN GLOBAL ROOT ECDSA CA,O=DigitalSign Certificadora Digital,C=PT
Serial Number:36:2d:8f:72:88:a2:28:27:e4:00:ff:24:c6:2d:e4:eb:fa:9d:b6:e1
Subject: CN=DIGITALSIGN GLOBAL ROOT ECDSA CA,O=DigitalSign Certificadora Digital,C=PT
Not Valid Before: Thu Jan 21 11:07:50 2021
Not
Valid After : Mon Jan 15 11:07:50 2046
Fingerprint (SHA-256):
26:1D:71:14:AE:5F:8F:F2:D8:C7:20:9A:9D:E4:28:9E:6A:FC:9D:71:70:23:D8:54:50:90:91:99:F1:85:7C:FE
Fingerprint (SHA1): 67:A8:08:EB:8F:88:F5:80:6C:05:45:1B:17:F3:D7:00:2F:D2:4A:8A
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DIGITALSIGN GLOBAL ROOT ECDSA CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\147\250\010\353\217\210\365\200\154\005\105\033\027\363\327\000
\057\322\112\212
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\252\055\241\316\377\041\302\210\313\132\036\214\341\311\222\217
END
CKA_ISSUER MULTILINE_OCTAL
\060\144\061\013\060\011\006\003\125\004\006\023\002\120\124\061
\052\060\050\006\003\125\004\012\014\041\104\151\147\151\164\141
\154\123\151\147\156\040\103\145\162\164\151\146\151\143\141\144
\157\162\141\040\104\151\147\151\164\141\154\061\051\060\047\006
\003\125\004\003\014\040\104\111\107\111\124\101\114\123\111\107
\116\040\107\114\117\102\101\114\040\122\117\117\124\040\105\103
\104\123\101\040\103\101
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\024\066\055\217\162\210\242\050\047\344\000\377\044\306\055
\344\353\372\235\266\341
END

```
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Security Communication RootCA3"
#
# Issuer: CN=Security Communication RootCA3,O="SECOM Trust Systems CO.,LTD.",C=JP
# Serial Number:00:e1:7c:37:40:fd:1b:fe:67
# Subject: CN=Security Communication RootCA3,O="SECOM Trust Systems CO.,LTD.",C=JP
# Not Valid Before: Thu Jun 16 06:17:16 2016
# Not Valid After : Mon Jan 18 06:17:16 2038
# Fingerprint (SHA-256):
24:A5:5C:2A:B0:51:44:2D:06:17:76:65:41:23:9A:4A:D0:32:D7:C5:51:75:AA:34:FF:DE:2F:BC:4F:5C:52:94
# Fingerprint (SHA1): C3:03:C8:22:74:92:E5:61:A2:9C:5F:79:91:2B:1E:44:13:91:30:3A
CKA_CLASS
 CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Security Communication RootCA3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\135\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\045\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040
\124\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117
\056\054\114\124\104\056\061\047\060\045\006\003\125\004\003\023
\036\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156
\151\143\141\164\151\157\156\040\122\157\157\164\103\101\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\135\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\045\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040
\124\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117
\056\054\114\124\104\056\061\047\060\045\006\003\125\004\003\023
\036\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156
\151\143\141\164\151\157\156\040\122\157\157\164\103\101\063
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\011\000\341\174\067\100\375\033\376\147
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\177\060\202\003\147\240\003\002\001\002\002\011\000
\341\174\067\100\375\033\376\147\060\015\006\011\052\206\110\206
\367\015\001\001\014\005\000\060\135\061\013\060\011\006\003\125
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\004\006\023\002\112\120\061\045\060\043\006\003\125\004\012\023
\034\123\105\103\117\115\040\124\162\165\163\164\040\123\171\163
\164\145\155\163\040\103\117\056\054\114\124\104\056\061\047\060
\045\006\003\125\004\003\023\036\123\145\143\165\162\151\164\171
\040\103\157\155\155\165\156\151\143\141\164\151\157\156\040\122
\157\157\164\103\101\063\060\036\027\015\061\066\060\066\061\066
\060\066\061\067\061\066\132\027\015\063\070\060\061\061\070\060
\066\061\067\061\066\132\060\135\061\013\060\011\006\003\125\004
\006\023\002\112\120\061\045\060\043\006\003\125\004\012\023\034
\123\105\103\117\115\040\124\162\165\163\164\040\123\171\163\164
\145\155\163\040\103\117\056\054\114\124\104\056\061\047\060\045
\006\003\125\004\003\023\036\123\145\143\165\162\151\164\171\040
\103\157\155\155\165\156\151\143\141\164\151\157\156\040\122\157
\157\164\103\101\063\060\202\002\042\060\015\006\011\052\206\110
\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202\002
\012\002\202\002\001\000\343\311\162\111\367\060\336\011\174\251
\100\201\130\323\264\072\335\272\141\017\223\120\156\151\074\065
\302\356\133\163\220\033\147\114\041\354\137\065\273\071\076\053
\012\140\357\273\155\053\206\373\161\242\310\254\344\126\224\371
\311\257\261\162\324\040\254\164\322\270\025\255\121\376\205\164
\241\271\020\376\005\200\371\122\223\263\100\075\165\020\254\300
\226\267\247\176\166\274\343\033\122\031\316\021\037\013\004\064
\365\330\365\151\074\167\363\144\364\015\252\205\336\340\011\120
\004\027\226\204\267\310\212\274\115\162\374\034\273\317\363\006
\115\371\237\144\367\176\246\146\206\065\161\310\021\200\114\301
\161\100\130\036\276\240\163\366\374\076\120\341\340\057\046\075
\176\134\043\265\171\160\336\372\340\321\245\326\014\101\161\173
\367\352\214\034\210\307\354\213\365\321\057\125\226\106\174\132
\073\130\073\373\272\330\055\265\045\332\172\116\317\104\256\041
\246\236\230\312\040\156\174\273\210\205\133\373\300\020\142\273
\362\371\047\107\357\321\211\071\103\304\337\336\341\101\277\124
\163\040\227\055\154\332\363\324\007\243\346\271\330\157\256\374
\214\031\056\323\147\147\053\225\333\130\134\265\152\002\363\270
\203\136\264\153\276\101\176\127\011\165\104\120\125\315\132\021
\141\041\012\141\302\251\210\375\023\274\055\211\057\315\141\340
\225\276\312\265\173\341\173\064\147\013\037\266\014\307\174\036
\031\123\312\247\261\112\025\040\126\024\160\075\053\202\054\017
\235\025\035\107\200\107\377\170\231\016\061\257\157\076\217\355
\206\151\036\173\030\210\024\262\302\374\202\063\056\234\113\055
\373\160\073\161\252\053\173\046\047\363\032\302\334\373\027\270
\241\352\313\240\264\256\323\224\176\172\320\253\303\354\070\055
\021\056\210\277\324\077\255\022\073\102\254\217\002\156\175\314
\321\137\141\276\241\274\072\152\110\352\046\125\042\026\135\137
\015\377\047\063\237\030\003\164\212\133\122\040\107\153\105\115
\042\167\214\125\047\360\257\036\214\311\203\042\124\267\232\320
\117\331\316\374\331\056\034\226\050\261\002\323\003\275\045\122
\034\064\146\117\043\253\364\167\202\226\035\321\127\060\010\021
\005\375\127\321\331\307\002\003\001\000\001\243\102\060\100\060

\035\006\003\125\035\016\004\026\004\024\144\024\174\374\130\162
\026\246\012\051\064\025\157\052\313\274\374\257\250\253\060\016
\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060\017
\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060
\015\006\011\052\206\110\206\367\015\001\001\014\005\000\003\202
\002\001\000\334\002\043\010\342\357\041\072\307\015\267\046\322
\142\223\247\245\043\162\007\040\202\140\337\030\327\124\255\151
\045\222\236\331\024\317\231\271\122\201\317\256\154\212\073\132
\071\310\154\001\103\302\042\155\002\360\142\315\116\143\103\300
\024\332\364\143\360\352\364\161\356\116\207\343\161\251\364\311
\127\345\056\137\034\171\273\043\252\207\104\127\351\275\065\115
\101\273\113\050\243\230\262\033\331\013\027\007\345\367\352\235
\365\166\327\277\304\266\201\130\377\310\377\144\151\142\171\255
\156\016\037\177\356\035\151\345\267\162\161\263\376\245\001\065
\224\124\053\300\122\155\217\125\304\311\322\270\313\312\064\010
\121\205\240\365\274\264\027\130\352\012\134\172\275\143\306\072
\057\377\226\111\031\204\352\147\330\004\261\141\364\000\133\112
\267\234\161\067\031\205\171\277\201\260\307\023\016\166\161\076
\072\200\006\256\006\026\247\215\265\302\304\313\377\100\245\134
\215\245\311\072\355\162\201\312\134\230\074\322\064\003\167\010
\375\360\051\131\135\041\010\307\140\277\244\161\173\270\331\036
\202\276\011\257\145\157\050\253\277\113\265\356\076\010\107\047
\240\017\157\017\213\077\254\225\030\363\271\016\334\147\125\156
\142\236\106\016\321\004\170\312\162\256\166\331\245\370\262\337
\210\011\141\213\357\044\116\321\131\077\132\324\075\311\223\074
\053\144\365\201\015\026\226\367\222\303\376\061\157\350\052\062
\164\016\364\114\230\112\030\016\060\124\325\305\353\274\305\025
\236\350\231\041\353\047\053\011\012\333\361\346\160\030\126\273
\014\344\276\371\350\020\244\023\222\270\034\340\333\147\035\123
\003\244\042\247\334\135\222\020\074\352\377\374\033\020\032\303
\330\320\234\235\145\313\320\053\047\061\003\036\066\341\075\166
\165\014\377\105\046\271\335\121\274\043\307\137\330\330\207\020
\100\022\015\075\070\067\347\104\074\030\300\123\011\144\217\377
\325\232\246\174\160\056\163\125\041\350\337\377\203\271\035\076
\062\036\326\246\175\054\361\146\351\134\035\247\243\316\136\045
\062\053\343\225\254\052\007\316\264\050\170\206\074\055\246\235
\115\322\164\060\335\144\121\025\333\203\203\121\327\257\375\063
\235\115\146
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL
 CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Security Communication RootCA3"
Issuer: CN=Security Communication RootCA3,O="SECOM Trust Systems CO.,LTD.",C=JP
Serial Number:00:e1:7c:37:40:fd:1b:fe:67

```
# Subject: CN=Security Communication RootCA3,O="SECOM Trust Systems CO.,LTD.",C=JP
# Not Valid Before: Thu Jun 16 06:17:16 2016
# Not Valid After : Mon Jan 18 06:17:16 2038
# Fingerprint (SHA-256):
24:A5:5C:2A:B0:51:44:2D:06:17:76:65:41:23:9A:4A:D0:32:D7:C5:51:75:AA:34:FF:DE:2F:BC:4F:5C:52:94
# Fingerprint (SHA1): C3:03:C8:22:74:92:E5:61:A2:9C:5F:79:91:2B:1E:44:13:91:30:3A
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Security Communication RootCA3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\303\003\310\042\164\222\345\141\242\234\137\171\221\053\036\104
\023\221\060\072
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\034\232\026\377\236\134\340\115\212\024\001\364\065\135\051\046
END
CKA_ISSUER
 MULTILINE_OCTAL
\060\135\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\045\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040
\124\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117
\056\054\114\124\104\056\061\047\060\045\006\003\125\004\003\023
\036\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156
\151\143\141\164\151\157\156\040\122\157\157\164\103\101\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\341\174\067\100\375\033\376\147
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Security Communication ECC RootCA1"
#
# Issuer: CN=Security Communication ECC RootCA1,O="SECOM Trust Systems CO.,LTD.",C=JP
# Serial Number:00:d6:5d:9b:b3:78:81:2e:eb
# Subject: CN=Security Communication ECC RootCA1,O="SECOM Trust Systems CO.,LTD.",C=JP
#
 Not Valid Before: Thu Jun 16 05:15:28 2016
# Not Valid After : Mon Jan 18 05:15:28 2038
# Fingerprint (SHA-256):
E7:4F:BD:A5:5B:D5:64:C4:73:A3:6B:44:1A:A7:99:C8:A6:8E:07:74:40:E8:28:8B:9F:A1:E5:0E:4B:BA:CA:11
# Fingerprint (SHA1): B8:0E:26:A9:BF:D2:B2:3B:C0:EF:46:C9:BA:C7:BB:F6:1D:0D:41:41
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
```

CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Security Communication ECC RootCA1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\045\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040
\124\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117
\056\054\114\124\104\056\061\053\060\051\006\003\125\004\003\023
\042\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156
\151\143\141\164\151\157\156\040\105\103\103\040\122\157\157\164
\103\101\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\045\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040
\124\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117
\056\054\114\124\104\056\061\053\060\051\006\003\125\004\003\023
\042\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156
\151\143\141\164\151\157\156\040\105\103\103\040\122\157\157\164
\103\101\061
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\011\000\326\135\233\263\170\201\056\353
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\070\060\202\001\276\240\003\002\001\002\002\011\000
\326\135\233\263\170\201\056\353\060\012\006\010\052\206\110\316
\075\004\003\003\060\141\061\013\060\011\006\003\125\004\006\023
\002\112\120\061\045\060\043\006\003\125\004\012\023\034\123\105
\103\117\115\040\124\162\165\163\164\040\123\171\163\164\145\155
\163\040\103\117\056\054\114\124\104\056\061\053\060\051\006\003
\125\004\003\023\042\123\145\143\165\162\151\164\171\040\103\157
\155\155\165\156\151\143\141\164\151\157\156\040\105\103\103\040
\122\157\157\164\103\101\061\060\036\027\015\061\066\060\066\061
\066\060\065\061\065\062\070\132\027\015\063\070\060\061\061\070
\060\065\061\065\062\070\132\060\141\061\013\060\011\006\003\125
\004\006\023\002\112\120\061\045\060\043\006\003\125\004\012\023
\034\123\105\103\117\115\040\124\162\165\163\164\040\123\171\163
\164\145\155\163\040\103\117\056\054\114\124\104\056\061\053\060
\051\006\003\125\004\003\023\042\123\145\143\165\162\151\164\171
\040\103\157\155\155\165\156\151\143\141\164\151\157\156\040\105
\103\103\040\122\157\157\164\103\101\061\060\166\060\020\006\007
\052\206\110\316\075\002\001\006\005\053\201\004\000\042\003\142
\000\004\244\245\157\140\003\003\303\275\061\364\323\027\234\053

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\204\165\254\345\375\075\127\156\327\143\277\346\004\211\222\216
\201\234\343\351\107\156\312\220\022\310\023\340\247\235\367\145
\164\037\154\020\262\350\344\351\357\155\205\062\231\104\261\136
\375\314\166\020\330\133\275\242\306\371\326\102\344\127\166\334
\220\302\065\251\113\210\074\022\107\155\134\377\111\117\032\112
\120\261\243\102\060\100\060\035\006\003\125\035\016\004\026\004
\024\206\034\347\376\055\245\112\213\010\376\050\021\372\276\243
\146\370\140\131\057\060\016\006\003\125\035\017\001\001\377\004
\004\003\002\001\006\060\017\006\003\125\035\023\001\001\377\004
\005\060\003\001\001\377\060\012\006\010\052\206\110\316\075\004
\003\003\003\150\000\060\145\002\060\025\135\102\075\374\266\356
\367\073\261\066\350\236\366\304\106\050\111\063\320\130\103\052
\143\051\314\115\261\264\172\242\271\015\070\245\135\110\052\375
\313\262\163\135\243\210\010\307\014\002\061\000\300\253\055\016
\155\355\030\242\333\123\351\045\333\125\010\340\120\314\337\104
\141\026\202\253\111\260\262\201\354\163\207\170\264\114\262\142
\033\022\372\026\115\045\113\143\275\036\067\331
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust
 for "Security Communication ECC RootCA1"
# Issuer: CN=Security Communication ECC RootCA1,O="SECOM Trust Systems CO.,LTD.",C=JP
# Serial Number:00:d6:5d:9b:b3:78:81:2e:eb
# Subject: CN=Security Communication ECC RootCA1,O="SECOM Trust Systems CO.,LTD.",C=JP
# Not Valid Before: Thu Jun 16 05:15:28 2016
# Not Valid After : Mon Jan 18 05:15:28 2038
# Fingerprint (SHA-256):
E7:4F:BD:A5:5B:D5:64:C4:73:A3:6B:44:1A:A7:99:C8:A6:8E:07:74:40:E8:28:8B:9F:A1:E5:0E:4B:BA:CA:11
# Fingerprint (SHA1): B8:0E:26:A9:BF:D2:B2:3B:C0:EF:46:C9:BA:C7:BB:F6:1D:0D:41:41
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Security Communication ECC RootCA1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\270\016\046\251\277\322\262\073\300\357\106\311\272\307\273\366
\035\015\101\101
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\176\103\260\222\150\354\005\103\114\230\253\135\065\056\176\206
END
CKA_ISSUER MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\045\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040
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\124\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117
\056\054\114\124\104\056\061\053\060\051\006\003\125\004\003\023
\042\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156
\151\143\141\164\151\157\156\040\105\103\103\040\122\157\157\164
\103\101\061
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\011\000\326\135\233\263\170\201\056\353
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "BJCA Global Root CA1"
#
Issuer: CN=BJCA Global Root CA1,O=BEIJING CERTIFICATE AUTHORITY,C=CN
Serial Number:55:6f:65:e3:b4:d9:90:6a:1b:09:d1:6c:3e:c0:6c:20
Subject: CN=BJCA Global Root CA1,O=BEIJING CERTIFICATE AUTHORITY,C=CN
Not Valid Before: Thu Dec 19 03:16:17 2019
Not Valid
After : Mon Dec 12 03:16:17 2044
Fingerprint (SHA-256):
F3:89:6F:88:FE:7C:0A:88:27:66:A7:FA:6A:D2:74:9F:B5:7A:7F:3E:98:FB:76:9C:1F:A7:B0:9C:2C:44:D5:AE
Fingerprint (SHA1): D5:EC:8D:7B:4C:BA:79:F4:E7:E8:CB:9D:6B:AE:77:83:10:03:21:6A
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "BJCA Global Root CA1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\124\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\046\060\044\006\003\125\004\012\014\035\102\105\111\112\111\116
\107\040\103\105\122\124\111\106\111\103\101\124\105\040\101\125
\124\110\117\122\111\124\131\061\035\060\033\006\003\125\004\003
\014\024\102\112\103\101\040\107\154\157\142\141\154\040\122\157
\157\164\040\103\101\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\124\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\046\060\044\006\003\125\004\012\014\035\102\105\111\112\111\116
\107\040\103\105\122\124\111\106\111\103\101\124\105\040\101\125
\124\110\117\122\111\124\131\061\035\060\033\006\003\125\004\003
\014\024\102\112\103\101\040\107\154\157\142\141\154\040\122\157

\157\164\040\103\101\061
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\125\157\145\343\264\331\220\152\033\011\321\154\076\300
\154\040
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\164\060\202\003\134\240\003\002\001\002\002\020\125
\157\145\343\264\331\220\152\033\011\321\154\076\300\154\040\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\124
\061\013\060\011\006\003\125\004\006\023\002\103\116\061\046\060
\044\006\003\125\004\012\014\035\102\105\111\112\111\116\107\040
\103\105\122\124\111\106\111\103\101\124\105\040\101\125\124\110
\117\122\111\124\131\061\035\060\033\006\003\125\004\003\014\024
\102\112\103\101\040\107\154\157\142\141\154\040\122\157\157\164
\040\103\101\061\060\036\027\015\061\071\061\062\061\071\060\063
\061\066\061\067\132\027\015\064\064\061\062\061\062\060\063\061
\066\061\067\132\060\124\061\013\060\011\006\003\125\004\006\023
\002\103\116\061\046\060\044\006\003\125\004\012\014\035\102\105
\111\112\111\116\107\040\103\105\122\124\111\106\111\103\101\124
\105\040\101\125\124\110\117\122\111\124\131\061\035\060\033\006
\003\125\004\003\014\024\102\112\103\101\040\107\154\157\142\141
\154\040\122\157\157\164\040\103\101\061\060\202\002\042\060\015
\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\002
\017\000\060\202\002\012\002\202\002\001\000\361\146\010\275\331
\305\025\141\313\204\004\101\245\151\067\167\035\301\260\173\372
\303\167\110\220\023\162\144\321\270\174\220\065\235\030\171\210
\343\227\001\074\107\201\362\016\242\230\015\236\077\067\340\031
\262\220\362\106\034\222\261\072\141\316\372\267\106\236\003\206
\327\063\156\355\367\105\214\166\067\336\156\226\221\367\327\176
\053\207\027\325\213\065\356\204\221\162\127\334\140\303\303\271
\347\307\147\044\043\117\143\012\143\366\146\175\113\125\247\077
\170\144\111\151\022\227\340\114\015\323\011\240\062\060\072\372
\237\300\362\234\305\022\052\056\034\265\004\063\332\244\070\021
\152\336\306\030\366\107\072\042\101\207\042\374\304\211\050\124
\330\214\245\060\012\370\027\026\312\254\067\375\171\247\221\027
\170\070\231\255\130\355\262\336\314\211\175\003\234\263\211\145
\347\343\073\261\042\206\217\006\155\170\007\375\221\022\177\260
\153\034\211\015\371\270\313\164\133\007\302\310\364\065\321\144
\143\172\351\156\232\050\326\060\275\346\033\335\025\257\204\352
\234\307\312\365\016\352\362\135\051\207\217\151\163\071\276\056
\044\157\105\041\254\305\324\151\045\006\203\255\172\110\205\023
\054\015\006\270\154\171\126\374\243\147\062\201\365\127\245\312
\127\102\151\351\134\044\141\357\342\060\030\116\104\230\125\157
\172\302\223\330\031\266\336\174\107\212\021\116\111\107\333\050
\224\002\013\224\112\054\371\022\320\117\350\061\176\154\172\277
\246\077\233\071\075\002\026\243\030\263\147\254\133\077\054\203

\053\147\071\201\134\271\176\224\325\144\335\236\217\156\256\350
\174\133\264\327\152\107\110\327\176\263\324\055\216\126\166\116
\317\151\361\156\104\154\324\044\352\215\044\241\030\277\275\127
\376\251\231\065\265\333\020\167\270\075\110\272\326\301\347\361
\043\076\327\337\205\235\047\074\324\100\275\012\014\275\365\347
\215\045\326\201\164\207\106\324\051\165\242\102\154\367\163\211
\347\175\277\172\112\037\323\042\311\025\125\317\337\157\174\125
\320\244\213\007\021\067\137\203\246\046\127\246\001\133\176\376
\130\150\007\251\351\172\331\271\350\377\120\037\253\302\264\300
\316\350\352\375\017\275\215\115\270\274\161\002\003\001\000\001
\243\102\060\100\060\035\006\003\125\035\016\004\026\004\024\305
\357\355\314\330\215\041\306\110\344\343\327\024\056\247\026\223
\345\230\001\060\017\006\003\125\035\023\001\001\377\004\005\060
\003\001\001\377\060\016\006\003\125\035\017\001\001\377\004\004
\003\002\001\006\060\015\006\011\052\206\110\206\367\015\001\001
\013\005\000\003\202\002\001\000\122\202\254\041\064\037\043\362
\242\330\371\270\257\067\066\040\211\321\067\003\326\151\237\270
\141\020\272\242\061\230\131\107\350\321\015\045\036\025\101\014
\340\052\125\325\127\122\313\370\344\307\151\243\035\115\161\002
\136\137\041\105\140\110\134\011\216\111\020\301\004\334\251\142
\153\002\360\103\310\116\235\070\111\164\311\062\160\124\155\301
\107\374\216\264\066\236\324\234\275\335\040\326\123\311\030\251
\265\126\271\166\213\225\147\146\356\275\230\376\256\357\276\156
\373\140\366\375\131\306\052\033\077\043\112\224\044\060\047\310
\211\274\353\104\044\232\313\075\276\117\325\172\316\216\027\313
\142\301\331\336\036\016\172\377\103\206\064\122\274\141\077\074
\137\273\331\166\264\123\274\227\263\376\212\114\022\056\053\363
\327\316\341\242\377\335\173\160\373\073\241\115\244\143\002\375
\070\227\225\077\005\160\240\153\337\142\201\103\213\264\131\015
\112\214\124\234\305\273\201\237\315\175\245\357\013\045\036\072
\040\333\034\374\037\230\147\002\012\324\163\104\023\333\121\204
\032\125\003\126\340\000\176\164\006\377\070\304\162\035\323\250
\077\150\061\135\323\011\307\056\214\133\143\340\350\334\036\322
\354\141\036\362\336\345\357\366\231\166\140\055\036\224\162\161
\306\013\052\062\307\222\116\325\106\327\035\371\251\031\012\310
\372\225\316\155\043\230\252\013\070\255\232\126\015\157\215\361
\061\000\210\301\027\234\315\031\066\065\376\125\123\240\340\074
\063\137\226\136\342\062\351\337\063\273\006\112\251\330\204\163
\316\167\322\306\254\161\341\134\243\035\014\273\012\337\137\342
\243\161\330\332\067\132\240\170\053\364\324\175\353\166\355\362
\141\160\245\145\232\323\211\064\030\253\373\162\076\327\264\075
\171\134\330\037\241\063\173\331\202\120\014\223\027\252\154\334
\302\202\273\002\127\066\257\230\047\052\071\120\341\260\211\365
\045\227\176\107\150\020\264\354\163\312\263\227\321\044\334\366
\142\240\050\323\265\243\270\144\267\210\142\102\317\235\123\315
\231\276\144\150\217\117\036\022\110\367\322\051\303\230\050\312
\362\062\013\223\214\051\117\074\140\062\315\005\226\141\354\362
\257\376\263\160\054\056\246\362

```
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "BJCA Global Root CA1"
# Issuer: CN=BJCA Global Root CA1,O=BEIJING CERTIFICATE AUTHORITY,C=CN
# Serial Number:55:6f:65:e3:b4:d9:90:6a:1b:09:d1:6c:3e:c0:6c:20
# Subject: CN=BJCA Global Root CA1,O=BEIJING CERTIFICATE AUTHORITY,C=CN
# Not Valid Before: Thu Dec 19 03:16:17 2019
# Not Valid After : Mon Dec 12 03:16:17 2044
# Fingerprint (SHA-256):
F3:89:6F:88:FE:7C:0A:88:27:66:A7:FA:6A:D2:74:9F:B5:7A:7F:3E:98:FB:76:9C:1F:A7:B0:9C:2C:44:D5:AE
# Fingerprint (SHA1): D5:EC:8D:7B:4C:BA:79:F4:E7:E8:CB:9D:6B:AE:77:83:10:03:21:6A
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "BJCA Global Root CA1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\325\354\215\173\114\272\171\364\347\350\313\235\153\256\167\203
\020\003\041\152
END
CKA_CERT_MD5_HASH
 MULTILINE_OCTAL
\102\062\231\166\103\063\066\044\065\007\202\233\050\371\320\220
END
CKA_ISSUER MULTILINE_OCTAL
\060\124\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\046\060\044\006\003\125\004\012\014\035\102\105\111\112\111\116
\107\040\103\105\122\124\111\106\111\103\101\124\105\040\101\125
\124\110\117\122\111\124\131\061\035\060\033\006\003\125\004\003
\014\024\102\112\103\101\040\107\154\157\142\141\154\040\122\157
\157\164\040\103\101\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\125\157\145\343\264\331\220\152\033\011\321\154\076\300
\154\040
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "BJCA Global Root CA2"
#
```

```
# Issuer: CN=BJCA Global Root CA2,O=BEIJING CERTIFICATE AUTHORITY,C=CN
# Serial Number:2c:17:08:7d:64:2a:c0:fe:85:18:59:06:cf:b4:4a:eb
#
 Subject: CN=BJCA Global Root CA2,O=BEIJING CERTIFICATE AUTHORITY,C=CN
# Not Valid Before: Thu Dec 19 03:18:21 2019
# Not Valid After : Mon Dec 12 03:18:21 2044
# Fingerprint (SHA-256):
57:4D:F6:93:1E:27:80:39:66:7B:72:0A:FD:C1:60:0F:C2:7E:B6:6D:D3:09:29:79:FB:73:85:64:87:21:28:82
# Fingerprint (SHA1): F4:27:86:EB:6E:B8:6D:88:31:67:02:FB:BA:66:A4:53:00:AA:7A:A6
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "BJCA Global Root CA2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\124\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\046\060\044\006\003\125\004\012\014\035\102\105\111\112\111\116
\107\040\103\105\122\124\111\106\111\103\101\124\105\040\101\125
\124\110\117\122\111\124\131\061\035\060\033\006\003\125\004\003
\014\024\102\112\103\101\040\107\154\157\142\141\154\040\122\157
\157\164\040\103\101\062
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\124\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\046\060\044\006\003\125\004\012\014\035\102\105\111\112\111\116
\107\040\103\105\122\124\111\106\111\103\101\124\105\040\101\125
\124\110\117\122\111\124\131\061\035\060\033\006\003\125\004\003
\014\024\102\112\103\101\040\107\154\157\142\141\154\040\122\157
\157\164\040\103\101\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\054\027\010\175\144\052\300\376\205\030\131\006\317\264
\112\353
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\045\060\202\001\253\240\003\002\001\002\002\020\054
\027\010\175\144\052\300\376\205\030\131\006\317\264\112\353\060
\012\006\010\052\206\110\316\075\004\003\003\060\124\061\013\060
\011\006\003\125\004\006\023\002\103\116\061\046\060\044\006\003
\125\004\012\014\035\102\105\111\112\111\116\107\040\103\105\122
\124\111\106\111\103\101\124\105\040\101\125\124\110\117\122\111
\124\131\061\035\060\033\006\003\125\004\003\014\024\102\112\103
\101\040\107\154\157\142\141\154\040\122\157\157\164\040\103\101
\062\060\036\027\015\061\071\061\062\061\071\060\063\061\070\062
\061\132\027\015\064\064\061\062\061\062\060\063\061\070\062\061
```

\132\060\124\061\013\060\011\006\003\125\004\006\023\002\103\116
\061\046\060\044\006\003\125\004\012\014\035\102\105\111\112\111
\116\107\040\103\105\122\124\111\106\111\103\101\124\105\040\101
\125\124\110\117\122\111\124\131\061\035\060\033\006\003\125\004
\003\014\024\102\112\103\101\040\107\154\157\142\141\154\040\122
\157\157\164\040\103\101\062\060\166\060\020\006\007\052\206\110
\316\075\002\001\006\005\053\201\004\000\042\003\142\000\004\235
\313\200\221\215\123\147\265\271\120\261\003\370\345\111\037\101
\042\011\260\121\122\130\326\053\064\217\305\022\106\024\305\213
\057\054\204\377\054\156\250\325\361\011\343\003\041\024\304\103
\075\174\301\054\304\113\152\112\315\351\207\340\175\366\042\276
\372\112\121\270\060\212\375\341\336\030\022\012\366\107\267\347
\027\277\047\212\324\101\114\226\074\140\226\301\375\025\034\243
\102\060\100\060\035\006\003\125\035\016\004\026\004\024\322\112
\261\121\177\006\360\321\202\037\116\156\137\253\203\374\110\324
\260\221\060\017\006\003\125\035\023\001\001\377\004\005\060\003
\001\001\377\060\016\006\003\125\035\017\001\001\377\004\004\003
\002\001\006\060\012\006\010\052\206\110\316\075\004\003\003\003
\150\000\060\145\002\060\032\274\133\327\376\251\322\124\016\112
\135\322\155\261\100\334\364\103\325\322\112\231\031\022\126\200
\367\203\064\341\065\116\110\155\004\017\127\061\060\060\055\261
\252\235\003\070\333\006\002\061\000\313\314\207\123\313\172\337
\040\121\163\220\300\250\133\141\320\305\120\071\375\205\376\301
\343\170\370\246\326\113\275\233\207\217\017\345\326\123\226\253
\074\310\100\332\141\367\123\243\367
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "BJCA Global Root CA2"
Issuer: CN=BJCA Global Root CA2,O=BEIJING CERTIFICATE
AUTHORITY,C=CN
Serial Number:2c:17:08:7d:64:2a:c0:fe:85:18:59:06:cf:b4:4a:eb
Subject: CN=BJCA Global Root CA2,O=BEIJING CERTIFICATE AUTHORITY,C=CN
Not Valid Before: Thu Dec 19 03:18:21 2019
Not Valid After : Mon Dec 12 03:18:21 2044
Fingerprint (SHA-256):
57:4D:F6:93:1E:27:80:39:66:7B:72:0A:FD:C1:60:0F:C2:7E:B6:6D:D3:09:29:79:FB:73:85:64:87:21:28:82
Fingerprint (SHA1): F4:27:86:EB:6E:B8:6D:88:31:67:02:FB:BA:66:A4:53:00:AA:7A:A6
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "BJCA Global Root CA2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\364\047\206\353\156\270\155\210\061\147\002\373\272\146\244\123

```
\000\252\172\246
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\136\012\366\107\137\246\024\350\021\001\225\077\115\001\353\074
END
CKA_ISSUER MULTILINE_OCTAL
\060\124\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\046\060\044\006\003\125\004\012\014\035\102\105\111\112\111\116
\107\040\103\105\122\124\111\106\111\103\101\124\105\040\101\125
\124\110\117\122\111\124\131\061\035\060\033\006\003\125\004\003
\014\024\102\112\103\101\040\107\154\157\142\141\154\040\122\157
\157\164\040\103\101\062
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\054\027\010\175\144\052\300\376\205\030\131\006\317\264
\112\353
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "LAWtrust Root CA2 (4096)"
#
# Issuer: CN=LAWtrust Root CA2 (4096),O=LAWtrust,C=ZA
# Serial Number: 1427795633 (0x551a6eb1)
# Subject: CN=LAWtrust Root CA2 (4096),O=LAWtrust,C=ZA
# Not Valid Before: Tue Feb 14 09:19:38 2023
# Not Valid After : Fri Feb 14 09:49:38 2053
# Fingerprint (SHA-256):
48:E1:CF:9E:43:B6:88:A5:10:44:16:0F:46:D7:73:B8:27:7F:E4:5B:EA:AD:0E:4D:F9:0D:19:74:38:2F:EA:99
# Fingerprint (SHA1): EC:A2:D5:30:A9:AB:2C:7D:0E:75:61:64:4E:0A:E0:16:A1:54:38:7D
CKA_CLASS
 CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "LAWtrust Root CA2 (4096)"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\103\061\013\060\011\006\003\125\004\006\023\002\132\101\061
\021\060\017\006\003\125\004\012\023\010\114\101\127\164\162\165
\163\164\061\041\060\037\006\003\125\004\003\023\030\114\101\127
\164\162\165\163\164\040\122\157\157\164\040\103\101\062\040\050
\064\060\071\066\051
END
```

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\103\061\013\060\011\006\003\125\004\006\023\002\132\101\061
\021\060\017\006\003\125\004\012\023\010\114\101\127\164\162\165
\163\164\061\041\060\037\006\003\125\004\003\023\030\114\101\127
\164\162\165\163\164\040\122\157\157\164\040\103\101\062\040\050
\064\060\071\066\051
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\125\032\156\261
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\230\060\202\003\200\240\003\002\001\002\002\004\125
\032\156\261\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\060\103\061\013\060\011\006\003\125\004\006\023\002\132
\101\061\021\060\017\006\003\125\004\012\023\010\114\101\127\164
\162\165\163\164\061\041\060\037\006\003\125\004\003\023\030\114
\101\127\164\162\165\163\164\040\122\157\157\164\040\103\101\062
\040\050\064\060\071\066\051\060\040\027\015\062\063\060\062\061
\064\060\071\061\071\063\070\132\030\017\062\060\065\063\060\062
\061\064\060\071\064\071\063\070\132\060\103\061\013\060\011\006
\003\125\004\006\023\002\132\101\061\021\060\017\006\003\125\004
\012\023\010\114\101\127\164\162\165\163\164\061\041\060\037\006
\003\125\004\003\023\030\114\101\127\164\162\165\163\164\040\122
\157\157\164\040\103\101\062\040\050\064\060\071\066\051\060\202
\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005
\000\003\202\002\017\000\060\202\002\012\002\202\002\001\000\314
\027\313\053\103\272\154\371\311\223\212\145\015\022\114\354\047
\024\267\023\171\340\324\325\055\030\126\361\371\352\052\020\026
\116\154\104\307\152\145\106\363\232\211\065\321\207\370\063\211
\057\210\011\032\222\020\221\220\301\153\237\016\156\177\046\212
\023\135\030\254\150\001\015\020\170\145\160\330\216\217\204\132
\227\060\030\320\021\016\112\215\122\020\245\201\053\121\050\365
\143\304\266\354\100\263\001\345\255\167\275\345\070\357\274\215
\263\335\031\240\173\015\215\264\333\152\373\045\063\132\372\221
\257\304\161\105\060\370\210\051\173\313\277\325\272\047\004\216
\335\262\000\367\312\134\231\065\024\352\375\165\006\025\010\273
\312\127\150\373\077\373\264\064\163\143\321\325\343\310\070\132
\151\175\152\172\104\014\015\212\116\355\222\035\020\217\073\042
\054\266\337\355\305\306\360\211\171\124\145\136\137\033\275\217
\175\337\271\267\355\353\344\305\007\321\147\074\225\073\221\376
\102\172\122\100\200\004\322\071\127\113\364\222\175\377\233\357
\345\235\311\011\262\221\022\070\246\051\010\073\256\353\312\314
\355\115\347\116\041\001\007\374\157\062\316\151\214\204\122\306
\167\352\047\060\012\336\245\257\060\053\150\037\254\324\354\041
\255\042\111\166\316\017\302\362\007\052\371\152\022\203\232\073
\004\256\031\172\376\241\206\044\372\101\136\045\174\100\254\047
\266\343\051\066\157\065\342\127\320\031\130\337\377\144\366\303

\001\111\166\333\053\276\274\271\117\024\012\325\033\130\041\366
\034\056\000\174\370\224\265\313\067\032\024\344\062\271\026\324
\140\354\005\252\137\062\372\152\043\022\254\324\020\273\322\242
\202\264\113\016\213\160\047\252\326\007\301\147\210\372\204\303
\010\311\212\204\310\322\067\162\201\017\215\026\112\344\327\065
\121\245\070\017\214\204\113\225\066\300\365\327\235\340\135\217
\253\221\356\000\010\271\235\122\037\354\370\231\273\171\126\261
\111\332\322\345\330\141\213\133\257\360\253\067\305\173\032\216
\206\276\176\305\173\025\036\141\150\350\013\207\213\163\111\241
\027\163\176\051\170\216\312\340\101\057\165\163\164\242\227\072
\177\367\056\164\011\270\114\140\213\106\066\031\020\055\235\002
\003\001\000\001\243\201\221\060\201\216\060\017\006\003\125\035
\023\001\001\377\004\005\060\003\001\001\377\060\016\006\003\125
\035\017\001\001\377\004\004\003\002\001\006\060\053\006\003\125
\035\020\004\044\060\042\200\017\062\060\062\063\060\062\061\064
\060\071\061\071\063\070\132\201\017\062\060\065\063\060\062\061
\064\060\071\064\071\063\070\132\060\037\006\003\125\035\043\004
\030\060\026\200\024\327\326\126\142\134\077\027\201\346\163\104
\051\365\121\005\357\013\140\067\254\060\035\006\003\125\035\016
\004\026\004\024\327\326\126\142\134\077\027\201\346\163\104\051
\365\121\005\357\013\140\067\254\060\015\006\011\052\206\110\206
\367\015\001\001\013\005\000\003\202\002\001\000\111\234\051\376
\075\354\236\105\177\253\076\074\376\043\157\067\076\167\247\123
\377\170\237\374\111\104\200\127\146\234\156\332\171\377\315\105
\255\114\223\277\265\131\306\351\020\267\345\370\214\373\207\305
\036\213\330\263\077\002\226\012\273\212\216\357\327\264\300\203
\040\070\227\131\105\144\374\366\167\023\362\011\327\241\310\070
\164\010\352\371\110\114\372\037\004\234\264\377\354\156\126\066
\162\223\154\225\076\054\137\336\017\013\253\311\314\025\076\026
\217\146\374\262\020\270\241\321\264\336\300\143\031\314\357\123
\252\165\066\042\213\045\037\277\233\310\327\301\137\354\246\067
\011\252\173\142\274\366\042\055\361\326\130\335\214\273\122\364
\013\247\166\251\172\173\032\215\334\255\232\201\142\056\206\005
\220\162\107\057\241\311\147\204\260\015\154\260\270\233\026\267
\320\231\024\057\234\022\233\043\250\215\246\103\036\351\345\055
\345\170\247\037\144\224\144\266\167\262\250\134\373\011\253\051
\353\036\155\165\321\366\320\305\245\303\035\237\036\363\032\055
\262\310\037\345\050\012\156\363\137\375\332\346\043\241\166\220
\134\113\230\001\202\054\356\107\055\002\032\137\177\064\305\151
\265\162\255\076\363\317\236\155\370\051\350\021\047\053\340\131
\013\033\141\353\112\312\151\245\244\325\315\121\033\224\216\171
\315\337\366\256\164\135\261\054\033\206\123\376\321\060\006\101
\064\007\142\202\114\364\176\307\207\164\016\260\041\036\011\040
\200\301\263\025\075\106\155\323\361\006\222\077\357\240\225\212
\034\156\167\061\266\353\170\051\014\173\356\202\245\117\176\244
\051\136\236\252\055\370\216\300\363\374\015\006\205\233\116\334
\367\342\011\174\320\024\121\036\172\263\043\257\372\321\141\052
\145\265\001\331\270\343\007\312\044\166\322\360\112\276\357\206

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\004\200\102\025\160\021\150\176\327\307\273\376\347\116\233\234
\225\245\034\112\244\311\320\011\214\252\316\110\322\036\222\227
\327\021\351\355\146\314\067\334\365\327\033\164\233\246\352\102
\254\135\062\340\130\364\201\107\377\322\022\342\176\034\334\111
\166\226\303\035\237\113\312\134\052\067\133\075\212\321\070\233
\041\332\343\277\105\103\323\340\130\167\037\050
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "LAWtrust
 Root CA2 (4096)"
# Issuer: CN=LAWtrust Root CA2 (4096),O=LAWtrust,C=ZA
# Serial Number: 1427795633 (0x551a6eb1)
# Subject: CN=LAWtrust Root CA2 (4096),O=LAWtrust,C=ZA
# Not Valid Before: Tue Feb 14 09:19:38 2023
# Not Valid After : Fri Feb 14 09:49:38 2053
# Fingerprint (SHA-256):
48:E1:CF:9E:43:B6:88:A5:10:44:16:0F:46:D7:73:B8:27:7F:E4:5B:EA:AD:0E:4D:F9:0D:19:74:38:2F:EA:99
# Fingerprint (SHA1): EC:A2:D5:30:A9:AB:2C:7D:0E:75:61:64:4E:0A:E0:16:A1:54:38:7D
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "LAWtrust Root CA2 (4096)"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\354\242\325\060\251\253\054\175\016\165\141\144\116\012\340\026
\241\124\070\175
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\257\035\306\323\105\305\353\365\246\141\043\060\075\056\021\261
END
CKA_ISSUER MULTILINE_OCTAL
\060\103\061\013\060\011\006\003\125\004\006\023\002\132\101\061
\021\060\017\006\003\125\004\012\023\010\114\101\127\164\162\165
\163\164\061\041\060\037\006\003\125\004\003\023\030\114\101\127
\164\162\165\163\164\040\122\157\157\164\040\103\101\062\040\050
\064\060\071\066\051
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\004\125\032\156\261
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
```

CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Sectigo Public Email Protection Root E46"
#
Issuer: CN=Sectigo Public Email Protection Root E46,O=Sectigo Limited,C=GB
Serial Number:6e:f5:d3:a7:41:8e:a0:59:40:a7:30:6b:d2:40:65:56
Subject: CN=Sectigo Public Email Protection Root E46,O=Sectigo Limited,C=GB
Not Valid Before: Mon Mar 22 00:00:00 2021
Not Valid After : Wed Mar 21 23:59:59 2046
Fingerprint (SHA-256):
22:D9:59:92:34:D6:0F:1D:4B:C7:C7:E9:6F:43:FA:55:5B:07:30:1F:D4:75:17:50:89:DA:FB:8C:25:E4:77:B3
Fingerprint (SHA1): 3A:C5:C3:78:34:5B:E1:82:92:46:ED:17:86:B3:93:91:7B:51:F2:14
CKA_CLASS
 CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Sectigo Public Email Protection Root E46"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\107\102\061
\030\060\026\006\003\125\004\012\023\017\123\145\143\164\151\147
\157\040\114\151\155\151\164\145\144\061\061\060\057\006\003\125
\004\003\023\050\123\145\143\164\151\147\157\040\120\165\142\154
\151\143\040\105\155\141\151\154\040\120\162\157\164\145\143\164
\151\157\156\040\122\157\157\164\040\105\064\066
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\107\102\061
\030\060\026\006\003\125\004\012\023\017\123\145\143\164\151\147
\157\040\114\151\155\151\164\145\144\061\061\060\057\006\003\125
\004\003\023\050\123\145\143\164\151\147\157\040\120\165\142\154
\151\143\040\105\155\141\151\154\040\120\162\157\164\145\143\164
\151\157\156\040\122\157\157\164\040\105\064\066
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\156\365\323\247\101\216\240\131\100\247\060\153\322\100
\145\126
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\061\060\202\001\267\240\003\002\001\002\002\020\156
\365\323\247\101\216\240\131\100\247\060\153\322\100\145\126\060
\012\006\010\052\206\110\316\075\004\003\003\060\132\061\013\060
\011\006\003\125\004\006\023\002\107\102\061\030\060\026\006\003
\125\004\012\023\017\123\145\143\164\151\147\157\040\114\151\155

\151\164\145\144\061\061\060\057\006\003\125\004\003\023\050\123
\145\143\164\151\147\157\040\120\165\142\154\151\143\040\105\155
\141\151\154\040\120\162\157\164\145\143\164\151\157\156\040\122
\157\157\164\040\105\064\066\060\036\027\015\062\061\060\063\062
\062\060\060\060\060\060\060\132\027\015\064\066\060\063\062\061
\062\063\065\071\065\071\132\060\132\061\013\060\011\006\003\125
\004\006\023\002\107\102\061\030\060\026\006\003\125\004\012\023
\017\123\145\143\164\151\147\157\040\114\151\155\151\164\145\144
\061\061\060\057\006\003\125\004\003\023\050\123\145\143\164\151
\147\157\040\120\165\142\154\151\143\040\105\155\141\151\154\040
\120\162\157\164\145\143\164\151\157\156\040\122\157\157\164\040
\105\064\066\060\166\060\020\006\007\052\206\110\316\075\002\001
\006\005\053\201\004\000\042\003\142\000\004\270\247\122\224\365
\076\005\260\033\366\037\261\323\176\271\344\005\146\124\200\316
\154\245\150\175\344\123\122\333\202\372\304\206\337\103\170\367
\310\255\026\274\077\170\062\313\153\323\111\326\104\345\263\176
\237\173\246\306\054\362\342\266\323\211\260\232\074\113\316\211
\113\306\306\313\072\111\140\017\106\274\155\116\172\234\311\233
\205\173\012\266\260\107\302\210\343\324\321\243\102\060\100\060
\035\006\003\125\035\016\004\026\004\024\055\116\214\247\302\043
\262\127\251\006\153\076\153\053\211\363\303\136\107\316\060\016
\006\003\125\035\017\001\001\377\004\004\003\002\001\206\060\017
\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060
\012\006\010\052\206\110\316\075\004\003\003\003\150\000\060\145
\002\061\000\222\235\032\131\143\105\130\216\033\026\344\175\172
\154\066\110\060\037\053\162\347\220\063\064\375\044\242\306\006
\214\157\073\062\127\132\370\376\306\111\022\123\232\331\020\262
\231\121\162\002\060\005\045\052\063\041\374\223\346\042\242\314
\160\125\050\065\126\242\007\304\041\204\043\032\114\114\231\120
\231\222\024\313\112\334\126\373\365\323\217\152\054\365\161\072
\370\213\073\003\236
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Sectigo Public Email Protection Root E46"
Issuer: CN=Sectigo Public Email Protection Root E46,O=Sectigo Limited,C=GB
Serial Number:6e:f5:d3:a7:41:8e:a0:59:40:a7:30:6b:d2:40:65:56
Subject: CN=Sectigo Public Email Protection Root E46,O=Sectigo Limited,C=GB
Not Valid Before: Mon Mar 22 00:00:00 2021
Not
Valid After : Wed Mar 21 23:59:59 2046
Fingerprint (SHA-256):
22:D9:59:92:34:D6:0F:1D:4B:C7:C7:E9:6F:43:FA:55:5B:07:30:1F:D4:75:17:50:89:DA:FB:8C:25:E4:77:B3
Fingerprint (SHA1): 3A:C5:C3:78:34:5B:E1:82:92:46:ED:17:86:B3:93:91:7B:51:F2:14
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

```
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Sectigo Public Email Protection Root E46"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\072\305\303\170\064\133\341\202\222\106\355\027\206\263\223\221
\173\121\362\024
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\271\032\257\054\211\226\100\140\047\006\073\241\177\335\211\323
END
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\107\102\061
\030\060\026\006\003\125\004\012\023\017\123\145\143\164\151\147
\157\040\114\151\155\151\164\145\144\061\061\060\057\006\003\125
\004\003\023\050\123\145\143\164\151\147\157\040\120\165\142\154
\151\143\040\105\155\141\151\154\040\120\162\157\164\145\143\164
\151\157\156\040\122\157\157\164\040\105\064\066
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\156\365\323\247\101\216\240\131\100\247\060\153\322\100
\145\126
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Sectigo Public Email Protection Root R46"
#
# Issuer: CN=Sectigo Public Email Protection Root R46,O=Sectigo Limited,C=GB
# Serial Number:1d:44:9e:b9:0d:83:91:74:ae:dd:f2:eb:88:b7:a6:a3
# Subject: CN=Sectigo Public Email Protection Root R46,O=Sectigo Limited,C=GB
# Not Valid Before: Mon Mar 22 00:00:00 2021
# Not Valid After : Wed Mar 21 23:59:59 2046
# Fingerprint (SHA-256):
D5:91:7A:77:91:EB:7C:F2:0A:2E:57:EB:98:28:4A:67:B2:8A:57:E8:91:82:DA:53:D5:46:67:8C:9F:DE:2B:4F
# Fingerprint (SHA1): D3:7B:8B:0A:E8:42:44:FB:6B:80:38:EE:AE:91:80:26:1A:48:70:66
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN
 CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Sectigo Public Email Protection Root R46"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
```

\060\132\061\013\060\011\006\003\125\004\006\023\002\107\102\061
\030\060\026\006\003\125\004\012\023\017\123\145\143\164\151\147
\157\040\114\151\155\151\164\145\144\061\061\060\057\006\003\125
\004\003\023\050\123\145\143\164\151\147\157\040\120\165\142\154
\151\143\040\105\155\141\151\154\040\120\162\157\164\145\143\164
\151\157\156\040\122\157\157\164\040\122\064\066
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\107\102\061
\030\060\026\006\003\125\004\012\023\017\123\145\143\164\151\147
\157\040\114\151\155\151\164\145\144\061\061\060\057\006\003\125
\004\003\023\050\123\145\143\164\151\147\157\040\120\165\142\154
\151\143\040\105\155\141\151\154\040\120\162\157\164\145\143\164
\151\157\156\040\122\157\157\164\040\122\064\066
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\035\104\236\271\015\203\221\164\256\335\362\353\210\267
\246\243
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\200\060\202\003\150\240\003\002\001\002\002\020\035
\104\236\271\015\203\221\164\256\335\362\353\210\267\246\243\060
\015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\132
\061\013\060\011\006\003\125\004\006\023\002\107\102\061\030\060
\026\006\003\125\004\012\023\017\123\145\143\164\151\147\157\040
\114\151\155\151\164\145\144\061\061\060\057\006\003\125\004\003
\023\050\123\145\143\164\151\147\157\040\120\165\142\154\151\143
\040\105\155\141\151\154\040\120\162\157\164\145\143\164\151\157
\156\040\122\157\157\164\040\122\064\066\060\036\027\015\062\061
\060\063\062\062\060\060\060\060\060\060\132\027\015\064\066\060
\063\062\061\062\063\065\071\065\071\132\060\132\061\013\060\011
\006\003\125\004\006\023\002\107\102\061\030\060\026\006\003\125
\004\012\023\017\123\145\143\164\151\147\157\040\114\151\155\151
\164\145\144\061\061\060\057\006\003\125\004\003\023\050\123\145
\143\164\151\147\157\040\120\165\142\154\151\143\040\105\155\141
\151\154\040\120\162\157\164\145\143\164\151\157\156\040\122\157
\157\164\040\122\064\066\060\202\002\042\060\015\006\011\052\206
\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202
\002\012\002\202\002\001\000\221\345\033\372\252\155\067\053\165
\307\056\137\024\245\333\054\227\266\054\106\217\151\331\354\226
\055\363\035\132\276\323\035\043\346\150\011\377\112\021\163\032
\256\147\237\166\232\322\347\354\270\331\137\053\371\046\126\121
\257\166\235\251\374\027\357\062\012\320\043\074\272\054\117\107
\203\354\235\005\150\102\136\006\340\325\350\053\150\110\227\262
\372\363\244\161\065\175\064\233\027\213\177\115\015\333\334\117
\005\114\224\142\277\065\372\057\310\247\034\146\331\161\137\345

\346\132\125\312\253\364\270\167\031\105\120\105\116\112\253\333
\236\146\301\031\267\067\102\310\126\245\100\022\371\063\350\070
\105\072\306\204\243\002\216\057\044\260\303\101\205\007\111\234
\317\334\321\362\046\157\355\063\034\063\147\052\105\067\331\205
\145\042\032\261\265\020\122\011\153\003\306\037\160\075\221\304
\175\220\075\355\146\370\220\377\045\340\355\222\242\213\061\051
\255\234\022\146\170\143\235\127\354\373\013\336\216\334\213\313
\072\251\167\364\272\345\354\070\214\213\346\023\146\247\151\130
\303\202\032\032\315\361\237\330\123\222\116\111\175\251\105\347
\361\103\041\132\267\076\100\315\143\211\317\331\277\307\120\013
\341\274\347\210\226\255\236\324\027\332\135\317\340\221\375\246
\020\324\271\003\201\233\151\254\373\204\250\201\065\353\033\353
\150\154\174\140\076\303\337\311\264\256\164\035\110\255\335\156
\021\206\341\052\152\066\026\256\310\316\274\333\130\374\100\223
\100\330\216\123\227\302\254\042\070\345\210\061\263\056\241\357
\354\340\102\015\352\377\223\126\112\006\244\233\114\002\150\144
\217\126\120\301\201\005\375\313\333\305\327\025\362\153\265\166
\303\243\371\062\316\312\265\112\251\033\175\031\334\177\307\152
\176\225\354\266\270\215\375\225\112\234\243\053\155\213\361\160
\345\107\053\000\134\344\271\236\324\370\331\130\051\320\313\340
\050\142\154\256\234\142\342\314\274\066\223\101\365\357\376\106
\142\225\260\127\112\164\054\107\122\051\235\335\242\241\117\102
\302\222\316\055\120\122\136\214\012\241\367\330\235\305\370\375
\066\207\116\127\375\150\241\137\231\203\034\360\265\335\350\222
\323\145\100\125\312\226\205\002\003\001\000\001\243\102\060\100
\060\035\006\003\125\035\016\004\026\004\024\247\327\225\167\353
\112\303\047\315\223\276\067\114\046\204\041\024\175\135\230\060
\016\006\003\125\035\017\001\001\377\004\004\003\002\001\206\060
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377
\060\015\006\011\052\206\110\206\367\015\001\001\014\005\000\003
\202\002\001\000\064\322\361\025\363\223\001\324\162\213\360\253
\010\037\023\074\163\264\260\253\350\170\331\154\272\232\257\046
\354\020\200\345\015\123\061\335\343\372\214\121\042\044\063\067
\270\030\176\072\372\130\350\064\345\214\340\241\037\011\101\322
\067\077\314\313\011\065\102\210\351\374\021\327\317\102\252\244
\160\266\161\301\123\275\305\164\257\304\042\044\143\317\142\202
\175\311\313\121\301\210\220\155\133\134\276\373\231\250\272\266
\206\260\351\146\013\345\033\153\257\352\053\206\247\337\250\043
\114\226\077\117\127\102\030\025\203\103\361\206\046\267\052\003
\316\013\235\350\245\150\036\214\157\275\205\343\033\121\217\347
\027\057\053\320\326\170\302\055\335\162\210\324\145\236\372\231
\324\176\347\227\012\222\001\232\245\251\204\072\014\052\164\075
\063\030\310\207\367\350\244\365\206\102\071\375\153\165\051\374
\000\006\254\242\245\032\124\216\351\120\111\027\146\257\113\004
\055\233\224\200\245\124\253\214\127\027\104\237\017\326\150\144
\162\264\113\036\001\307\331\233\224\331\203\231\257\022\005\021
\243\230\042\322\362\127\312\044\371\272\070\025\022\110\272\143
\073\374\213\225\170\326\162\007\126\314\315\374\235\034\320\305

\144\073\143\064\317\004\231\212\267\060\171\172\266\362\306\325
\331\124\172\207\013\176\116\367\204\354\024\363\210\026\022\361
\325\256\012\032\011\356\206\255\345\253\375\256\303\051\171\164
\303\001\137\021\233\337\165\231\306\112\367\233\217\154\111\354
\041\057\264\002\131\263\055\320\162\220\272\013\024\164\170\113
\317\301\137\125\162\216\124\053\023\316\372\130\014\323\273\054
\331\251\221\141\370\370\361\266\173\336\274\251\314\222\004\314
\113\153\137\163\200\266\041\355\120\117\327\166\207\156\316\337
\322\267\275\142\241\175\130\142\150\105\122\266\077\336\022\333
\355\004\151\236\166\210\252\001\155\332\206\307\140\033\303\122
\254\067\354\120\161\200\162\052\041\105\012\123\107\074\031\353
\215\322\131\004\336\045\260\353\037\065\157\140\175\327\265\306
\273\013\047\215\340\115\124\345\317\035\046\001\156\073\065\310
\040\022\211\203\360\322\355\130\073\064\235\273\061\365\062\375
\061\363\126\032
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER
 CK_BBOOL CK_FALSE

Trust for "Sectigo Public Email Protection Root R46"
Issuer: CN=Sectigo Public Email Protection Root R46,O=Sectigo Limited,C=GB
Serial Number:1d:44:9e:b9:0d:83:91:74:ae:dd:f2:eb:88:b7:a6:a3
Subject: CN=Sectigo Public Email Protection Root R46,O=Sectigo Limited,C=GB
Not Valid Before: Mon Mar 22 00:00:00 2021
Not Valid After : Wed Mar 21 23:59:59 2046
Fingerprint (SHA-256):
D5:91:7A:77:91:EB:7C:F2:0A:2E:57:EB:98:28:4A:67:B2:8A:57:E8:91:82:DA:53:D5:46:67:8C:9F:DE:2B:4F
Fingerprint (SHA1): D3:7B:8B:0A:E8:42:44:FB:6B:80:38:EE:AE:91:80:26:1A:48:70:66
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Sectigo Public Email Protection Root R46"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\323\173\213\012\350\102\104\373\153\200\070\356\256\221\200\046
\032\110\160\146
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\102\047\005\220\034\246\300\373\242\015\375\337\142\211\335\133
END
CKA_ISSUER
 MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\107\102\061
\030\060\026\006\003\125\004\012\023\017\123\145\143\164\151\147
\157\040\114\151\155\151\164\145\144\061\061\060\057\006\003\125

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\004\003\023\050\123\145\143\164\151\147\157\040\120\165\142\154
\151\143\040\105\155\141\151\154\040\120\162\157\164\145\143\164
\151\157\156\040\122\157\157\164\040\122\064\066
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\035\104\236\271\015\203\221\164\256\335\362\353\210\267
\246\243
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Sectigo Public Server Authentication Root E46"
#
# Issuer: CN=Sectigo Public Server Authentication Root E46,O=Sectigo Limited,C=GB
# Serial Number:42:f2:cc:da:1b:69:37:44:5f:15:fe:75:28:10:b8:f4
# Subject: CN=Sectigo
 Public Server Authentication Root E46,O=Sectigo Limited,C=GB
# Not Valid Before: Mon Mar 22 00:00:00 2021
# Not Valid After : Wed Mar 21 23:59:59 2046
# Fingerprint (SHA-256):
C9:0F:26:F0:FB:1B:40:18:B2:22:27:51:9B:5C:A2:B5:3E:2C:A5:B3:BE:5C:F1:8E:FE:1B:EF:47:38:0C:53:83
# Fingerprint (SHA1): EC:8A:39:6C:40:F0:2E:BC:42:75:D4:9F:AB:1C:1A:5B:67:BE:D2:9A
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Sectigo Public Server Authentication Root E46"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\137\061\013\060\011\006\003\125\004\006\023\002\107\102\061
\030\060\026\006\003\125\004\012\023\017\123\145\143\164\151\147
\157\040\114\151\155\151\164\145\144\061\066\060\064\006\003\125
\004\003\023\055\123\145\143\164\151\147\157\040\120\165\142\154
\151\143\040\123\145\162\166\145\162\040\101\165\164\150\145\156
\164\151\143\141\164\151\157\156\040\122\157\157\164\040\105\064
\066
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\137\061\013\060\011\006\003\125\004\006\023\002\107\102\061
\030\060\026\006\003\125\004\012\023\017\123\145\143\164\151\147
\157\040\114\151\155\151\164\145\144\061\066\060\064\006\003\125
\004\003\023\055\123\145\143\164\151\147\157\040\120\165\142\154
\151\143\040\123\145\162\166\145\162\040\101\165\164\150\145\156
```

\164\151\143\141\164\151\157\156\040\122\157\157\164\040\105\064
\066
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\102\362\314\332\033\151\067\104\137\025\376\165\050\020
\270\364
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\072\060\202\001\301\240\003\002\001\002\002\020\102
\362\314\332\033\151\067\104\137\025\376\165\050\020\270\364\060
\012\006\010\052\206\110\316\075\004\003\003\060\137\061\013\060
\011\006\003\125\004\006\023\002\107\102\061\030\060\026\006\003
\125\004\012\023\017\123\145\143\164\151\147\157\040\114\151\155
\151\164\145\144\061\066\060\064\006\003\125\004\003\023\055\123
\145\143\164\151\147\157\040\120\165\142\154\151\143\040\123\145
\162\166\145\162\040\101\165\164\150\145\156\164\151\143\141\164
\151\157\156\040\122\157\157\164\040\105\064\066\060\036\027\015
\062\061\060\063\062\062\060\060\060\060\060\060\132\027\015\064
\066\060\063\062\061\062\063\065\071\065\071\132\060\137\061\013
\060\011\006\003\125\004\006\023\002\107\102\061\030\060\026\006
\003\125\004\012\023\017\123\145\143\164\151\147\157\040\114\151
\155\151\164\145\144\061\066\060\064\006\003\125\004\003\023\055
\123\145\143\164\151\147\157\040\120\165\142\154\151\143\040\123
\145\162\166\145\162\040\101\165\164\150\145\156\164\151\143\141
\164\151\157\156\040\122\157\157\164\040\105\064\066\060\166\060
\020\006\007\052\206\110\316\075\002\001\006\005\053\201\004\000
\042\003\142\000\004\166\372\231\251\156\040\355\371\327\167\343
\007\073\250\333\075\137\070\350\253\125\246\126\117\326\110\352
\354\177\055\252\303\262\305\171\354\231\141\177\020\171\307\002
\132\371\004\067\365\064\065\053\167\316\177\040\217\122\243\000
\211\354\325\247\242\155\133\343\113\222\223\240\200\365\001\224
\334\360\150\007\036\315\356\376\045\122\265\040\103\034\033\376
\353\031\316\103\243\243\102\060\100\060\035\006\003\125\035\016
\004\026\004\024\321\042\332\114\131\361\113\137\046\070\252\235
\326\356\353\015\303\373\251\141\060\016\006\003\125\035\017\001
\001\377\004\004\003\002\001\206\060\017\006\003\125\035\023\001
\001\377\004\005\060\003\001\001\377\060\012\006\010\052\206\110
\316\075\004\003\003\003\147\000\060\144\002\060\047\356\244\132
\250\041\273\351\107\227\224\211\245\164\040\155\171\117\310\275
\223\136\130\030\373\055\032\000\152\311\270\075\320\244\117\104
\107\224\001\126\242\370\063\045\014\102\337\252\002\060\035\352
\341\056\210\056\341\371\247\035\002\062\116\362\237\154\125\164
\343\256\256\373\245\032\356\355\322\374\302\003\021\353\105\134
\140\020\075\134\177\231\003\133\155\124\110\001\212\163
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER

```
 CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Sectigo Public Server Authentication Root E46"
# Issuer: CN=Sectigo Public Server Authentication Root E46,O=Sectigo Limited,C=GB
# Serial Number:42:f2:cc:da:1b:69:37:44:5f:15:fe:75:28:10:b8:f4
# Subject: CN=Sectigo Public Server Authentication Root E46,O=Sectigo Limited,C=GB
# Not Valid Before: Mon Mar 22 00:00:00 2021
# Not Valid After : Wed Mar 21 23:59:59 2046
# Fingerprint (SHA-256):
C9:0F:26:F0:FB:1B:40:18:B2:22:27:51:9B:5C:A2:B5:3E:2C:A5:B3:BE:5C:F1:8E:FE:1B:EF:47:38:0C:53:83
# Fingerprint (SHA1): EC:8A:39:6C:40:F0:2E:BC:42:75:D4:9F:AB:1C:1A:5B:67:BE:D2:9A
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Sectigo Public Server Authentication Root E46"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\354\212\071\154\100\360\056\274\102\165\324\237\253\034\032\133
\147\276\322\232
END
CKA_CERT_MD5_HASH
 MULTILINE_OCTAL
\050\043\370\262\230\134\067\026\073\076\106\023\116\260\263\001
END
CKA_ISSUER MULTILINE_OCTAL
\060\137\061\013\060\011\006\003\125\004\006\023\002\107\102\061
\030\060\026\006\003\125\004\012\023\017\123\145\143\164\151\147
\157\040\114\151\155\151\164\145\144\061\066\060\064\006\003\125
\004\003\023\055\123\145\143\164\151\147\157\040\120\165\142\154
\151\143\040\123\145\162\166\145\162\040\101\165\164\150\145\156
\164\151\143\141\164\151\157\156\040\122\157\157\164\040\105\064
\066
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\102\362\314\332\033\151\067\104\137\025\376\165\050\020
\270\364
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Sectigo Public Server Authentication Root R46"
#
# Issuer: CN=Sectigo Public Server Authentication Root R46,O=Sectigo Limited,C=GB
# Serial
```

```
 Number:75:8d:fd:8b:ae:7c:07:00:fa:a9:25:a7:e1:c7:ad:14
# Subject: CN=Sectigo Public Server Authentication Root R46,O=Sectigo Limited,C=GB
# Not Valid Before: Mon Mar 22 00:00:00 2021
# Not Valid After : Wed Mar 21 23:59:59 2046
# Fingerprint (SHA-256):
7B:B6:47:A6:2A:EE:AC:88:BF:25:7A:A5:22:D0:1F:FE:A3:95:E0:AB:45:C7:3F:93:F6:56:54:EC:38:F2:5A:06
# Fingerprint (SHA1): AD:98:F9:F3:E4:7D:75:3B:65:D4:82:B3:A4:52:17:BB:6E:F5:E4:38
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Sectigo Public Server Authentication Root R46"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\137\061\013\060\011\006\003\125\004\006\023\002\107\102\061
\030\060\026\006\003\125\004\012\023\017\123\145\143\164\151\147
\157\040\114\151\155\151\164\145\144\061\066\060\064\006\003\125
\004\003\023\055\123\145\143\164\151\147\157\040\120\165\142\154
\151\143\040\123\145\162\166\145\162\040\101\165\164\150\145\156
\164\151\143\141\164\151\157\156\040\122\157\157\164\040\122\064
\066
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\137\061\013\060\011\006\003\125\004\006\023\002\107\102\061
\030\060\026\006\003\125\004\012\023\017\123\145\143\164\151\147
\157\040\114\151\155\151\164\145\144\061\066\060\064\006\003\125
\004\003\023\055\123\145\143\164\151\147\157\040\120\165\142\154
\151\143\040\123\145\162\166\145\162\040\101\165\164\150\145\156
\164\151\143\141\164\151\157\156\040\122\157\157\164\040\122\064
\066
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\165\215\375\213\256\174\007\000\372\251\045\247\341\307
\255\024
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\212\060\202\003\162\240\003\002\001\002\002\020\165
\215\375\213\256\174\007\000\372\251\045\247\341\307\255\024\060
\015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\137
\061\013\060\011\006\003\125\004\006\023\002\107\102\061\030\060
\026\006\003\125\004\012\023\017\123\145\143\164\151\147\157\040
\114\151\155\151\164\145\144\061\066\060\064\006\003\125\004\003
\023\055\123\145\143\164\151\147\157\040\120\165\142\154\151\143
\040\123\145\162\166\145\162\040\101\165\164\150\145\156\164\151
\143\141\164\151\157\156\040\122\157\157\164\040\122\064\066\060
\036\027\015\062\061\060\063\062\062\060\060\060\060\060\060\132
```

\027\015\064\066\060\063\062\061\062\063\065\071\065\071\132\060
\137\061\013\060\011\006\003\125\004\006\023\002\107\102\061\030
\060\026\006\003\125\004\012\023\017\123\145\143\164\151\147\157
\040\114\151\155\151\164\145\144\061\066\060\064\006\003\125\004
\003\023\055\123\145\143\164\151\147\157\040\120\165\142\154\151
\143\040\123\145\162\166\145\162\040\101\165\164\150\145\156\164
\151\143\141\164\151\157\156\040\122\157\157\164\040\122\064\066
\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001
\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001
\000\223\276\325\066\122\165\330\001\043\240\034\107\102\111\356
\143\266\267\041\375\304\225\325\110\053\046\174\024\123\020\332
\171\375\053\267\055\244\324\054\372\352\062\335\111\302\271\275
\017\110\075\173\132\230\124\257\236\135\061\164\117\007\374\120
\041\335\244\317\150\117\033\022\143\155\045\231\114\052\231\363
\110\060\141\372\201\174\036\247\010\112\334\076\053\034\037\030
\114\161\252\065\214\255\370\156\350\073\112\331\345\224\002\326
\211\204\023\252\155\310\117\063\314\120\226\067\222\063\334\137
\210\347\237\124\331\110\360\230\103\326\146\375\237\027\070\103
\305\001\121\013\327\343\043\017\024\135\133\024\347\113\276\335
\364\310\332\003\067\321\326\071\241\041\121\060\203\260\155\327
\060\116\226\133\221\360\160\044\253\277\105\201\144\103\015\275
\041\072\057\074\351\236\015\313\040\265\102\047\314\332\157\233
\356\144\060\220\071\315\223\145\201\041\061\265\043\120\063\067
\042\343\070\355\370\061\060\314\105\376\142\371\321\135\062\171
\102\207\337\152\314\126\031\100\115\316\252\273\371\265\166\111
\224\361\047\370\221\245\203\345\006\263\143\016\200\334\340\022
\125\200\246\073\146\264\071\207\055\310\360\320\321\024\351\344
\015\115\016\366\135\127\162\305\073\034\107\126\235\342\325\373
\201\141\214\314\115\200\220\064\133\267\327\024\165\334\330\004
\110\237\300\301\050\210\264\351\034\312\247\261\361\126\267\173
\111\114\131\345\040\025\250\204\002\051\372\070\224\151\232\111
\006\217\315\037\171\024\027\022\014\203\172\336\037\261\227\356
\371\227\170\050\244\310\104\222\351\175\046\005\246\130\162\233
\171\023\330\021\137\256\305\070\142\064\150\262\206\060\216\370
\220\141\236\062\154\365\007\066\315\242\114\156\354\212\066\355
\362\346\231\025\104\160\303\174\274\234\071\300\264\341\153\367
\203\045\043\127\331\022\200\345\111\360\165\017\357\215\353\034
\233\124\050\264\041\074\374\174\012\377\357\173\153\165\377\213
\035\240\031\005\253\372\370\053\201\102\350\070\272\273\373\252
\375\075\340\363\312\337\116\227\227\051\355\363\030\126\351\245
\226\254\275\303\220\230\262\340\371\242\324\246\107\103\174\155
\317\002\003\001\000\001\243\102\060\100\060\035\006\003\125\035
\016\004\026\004\024\126\163\130\144\225\371\222\032\260\022\052
\004\142\171\241\100\025\210\041\111\060\016\006\003\125\035\017
\001\001\377\004\004\003\002\001\206\060\017\006\003\125\035\023
\001\001\377\004\005\060\003\001\001\377\060\015\006\011\052\206
\110\206\367\015\001\001\014\005\000\003\202\002\001\000\057\134
\231\074\374\006\136\214\224\056\160\352\322\062\061\215\264\360

\121\325\274\012\363\144\237\007\136\325\301\163\150\144\172\242
\271\016\350\371\135\205\055\250\067\105\252\050\364\226\005\120
\140\251\111\176\237\342\231\066\051\023\104\107\152\235\125\040
\074\330\233\361\003\062\272\332\100\241\163\352\203\241\267\104
\246\016\231\001\233\344\274\177\276\023\224\176\312\246\036\166
\200\066\075\204\006\213\063\046\145\155\312\176\236\376\037\214
\130\070\173\032\203\261\017\274\027\021\273\346\006\314\143\372
\201\362\201\114\332\013\020\153\241\372\325\050\245\317\006\100
\026\377\173\175\030\136\071\022\244\123\236\176\062\102\020\246
\041\221\251\034\116\027\174\204\274\237\214\321\350\337\346\121
\271\066\107\077\220\271\307\274\002\334\133\034\117\016\110\301
\045\203\234\012\077\236\261\003\063\022\032\047\254\367\042\154
\044\321\001\101\370\130\003\376\045\150\042\037\232\132\074\174
\154\236\165\110\363\201\361\146\147\156\114\202\300\356\272\127
\016\030\357\056\232\367\022\330\240\153\351\005\245\241\351\150
\370\274\114\077\022\036\105\350\122\300\243\277\022\047\171\271
\314\061\074\303\366\072\042\026\003\240\311\217\146\244\133\242
\115\326\201\045\006\351\166\244\000\012\076\313\315\065\233\340
\341\070\313\140\123\206\050\102\101\034\104\127\350\250\255\253
\105\343\045\020\274\333\076\145\101\373\033\246\227\017\353\271
\164\171\371\036\274\035\127\015\107\257\303\057\237\207\106\247
\353\046\132\017\126\143\265\142\140\156\000\373\343\047\021\042
\347\376\231\217\064\365\271\350\303\221\162\275\330\303\036\271
\056\362\221\104\121\320\127\315\014\064\325\110\041\277\333\023
\361\146\045\103\122\322\160\042\066\315\237\304\034\165\040\255
\143\162\143\006\017\016\047\316\322\152\015\274\265\071\032\351
\321\166\172\321\134\344\347\111\111\055\125\067\150\360\032\072
\230\076\124\027\207\124\351\246\047\120\211\173\040\057\077\377
\277\241\213\112\107\230\377\053\173\111\076\303\051\106\140\030
\102\253\063\051\272\300\051\271\023\211\323\210\212\071\101\073
\311\375\246\355\037\364\140\143\337\322\055\125\001\213
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Sectigo Public Server Authentication Root R46"
Issuer: CN=Sectigo Public Server Authentication Root R46,O=Sectigo Limited,C=GB
Serial Number:75:8d:fd:8b:ae:7c:07:00:fa:a9:25:a7:e1:c7:ad:14
Subject: CN=Sectigo Public Server Authentication Root R46,O=Sectigo Limited,C=GB
Not Valid Before: Mon Mar 22 00:00:00 2021
Not Valid After : Wed Mar 21 23:59:59 2046
Fingerprint
(SHA-256):
7B:B6:47:A6:2A:EE:AC:88:BF:25:7A:A5:22:D0:1F:FE:A3:95:E0:AB:45:C7:3F:93:F6:56:54:EC:38:F2:5A:06
Fingerprint (SHA1): AD:98:F9:F3:E4:7D:75:3B:65:D4:82:B3:A4:52:17:BB:6E:F5:E4:38
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

```
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Sectigo Public Server Authentication Root R46"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\255\230\371\363\344\175\165\073\145\324\202\263\244\122\027\273
\156\365\344\070
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\062\020\011\122\000\325\176\154\103\337\025\300\261\026\223\345
END
CKA_ISSUER MULTILINE_OCTAL
\060\137\061\013\060\011\006\003\125\004\006\023\002\107\102\061
\030\060\026\006\003\125\004\012\023\017\123\145\143\164\151\147
\157\040\114\151\155\151\164\145\144\061\066\060\064\006\003\125
\004\003\023\055\123\145\143\164\151\147\157\040\120\165\142\154
\151\143\040\123\145\162\166\145\162\040\101\165\164\150\145\156
\164\151\143\141\164\151\157\156\040\122\157\157\164\040\122\064
\066
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\165\215\375\213\256\174\007\000\372\251\045\247\341\307
\255\024
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "SSL.com TLS RSA Root CA 2022"
#
# Issuer: CN=SSL.com TLS RSA Root CA 2022,O=SSL Corporation,C=US
# Serial Number:6f:be:da:ad:73:bd:08:40:e2:8b:4d:be:d4:f7:5b:91
# Subject: CN=SSL.com TLS RSA Root CA 2022,O=SSL Corporation,C=US
# Not Valid Before: Thu Aug 25 16:34:22 2022
# Not Valid After : Sun Aug 19 16:34:21 2046
# Fingerprint (SHA-256):
8F:AF:7D:2E:2C:B4:70:9B:B8:E0:B3:36:66:BF:75:A5:DD:45:B5:DE:48:0F:8E:A8:D4:BF:E6:BE:BC:17:F2:ED
# Fingerprint (SHA1): EC:2C:83:40:72:AF:26:95:10:FF:0E:F2:03:EE:31:70:F6:78:9D:CA
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE
 CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com TLS RSA Root CA 2022"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
```

CKA_SUBJECT MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\030\060\026\006\003\125\004\012\014\017\123\123\114\040\103\157
\162\160\157\162\141\164\151\157\156\061\045\060\043\006\003\125
\004\003\014\034\123\123\114\056\143\157\155\040\124\114\123\040
\122\123\101\040\122\157\157\164\040\103\101\040\062\060\062\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\030\060\026\006\003\125\004\012\014\017\123\123\114\040\103\157
\162\160\157\162\141\164\151\157\156\061\045\060\043\006\003\125
\004\003\014\034\123\123\114\056\143\157\155\040\124\114\123\040
\122\123\101\040\122\157\157\164\040\103\101\040\062\060\062\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\157\276\332\255\163\275\010\100\342\213\115\276\324\367
\133\221
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\211\060\202\003\161\240\003\002\001\002\002\020\157
\276\332\255\163\275\010\100\342\213\115\276\324\367\133\221\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\116
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\030\060
\026\006\003\125\004\012\014\017\123\123\114\040\103\157\162\160
\157\162\141\164\151\157\156\061\045\060\043\006\003\125\004\003
\014\034\123\123\114\056\143\157\155\040\124\114\123\040\122\123
\101\040\122\157\157\164\040\103\101\040\062\060\062\062\060\036
\027\015\062\062\060\070\062\065\061\066\063\064\062\062\132\027
\015\064\066\060\070\061\071\061\066\063\064\062\061\132\060\116
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\030\060
\026\006\003\125\004\012\014\017\123\123\114\040\103\157\162\160
\157\162\141\164\151\157\156\061\045\060\043\006\003\125\004\003
\014\034\123\123\114\056\143\157\155\040\124\114\123\040\122\123
\101\040\122\157\157\164\040\103\101\040\062\060\062\062\060\202
\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005
\000\003\202\002\017\000\060\202\002\012\002\202\002\001\000\320
\244\011\162\117\100\210\022\141\076\065\043\236\356\366\164\317
\057\173\130\075\316\074\015\020\050\220\057\227\367\214\110\330
\240\330\045\261\114\260\021\114\027\163\120\320\042\112\143\273
\201\323\051\156\325\265\011\076\046\030\177\262\022\177\223\230
\267\257\360\066\277\362\356\030\236\234\073\122\305\107\031\135
\164\363\144\146\325\135\307\150\264\277\033\034\006\243\274\217
\100\043\266\036\306\204\275\121\304\033\071\301\225\322\051\354
\113\256\173\055\277\071\375\264\142\336\226\173\101\306\234\240
\340\006\162\373\360\007\227\011\071\201\164\257\367\064\131\021
\127\012\302\133\301\044\364\061\163\060\202\306\235\272\002\367
\076\174\104\137\203\015\363\361\335\040\151\026\011\120\342\324

\125\266\340\200\162\166\156\114\107\267\165\125\131\264\123\164
\331\224\306\101\255\130\212\061\146\017\036\242\033\051\100\116
\057\337\173\346\026\054\055\374\277\354\363\264\372\276\030\366
\233\111\324\356\005\156\331\064\363\234\361\354\001\213\321\040
\306\017\240\265\274\027\116\110\173\121\302\374\351\134\151\067
\107\146\263\150\370\025\050\360\271\323\244\025\314\132\117\272
\122\160\243\022\105\335\306\272\116\373\302\320\367\250\122\047
\155\156\171\265\214\374\173\214\301\026\114\356\200\177\276\360
\166\276\101\123\022\063\256\132\070\102\253\327\017\076\101\215
\166\007\062\325\253\211\366\116\147\331\261\102\165\043\156\363
\315\102\262\374\125\365\123\207\027\073\300\063\130\361\122\322
\371\200\244\360\350\360\073\213\070\314\244\306\220\177\017\234
\375\213\321\243\317\332\203\247\151\311\120\066\325\134\005\322
\012\101\164\333\143\021\067\301\245\240\226\113\036\214\026\022
\167\256\224\064\173\036\177\302\146\000\344\252\203\352\212\220
\255\316\066\104\115\321\121\351\274\037\363\152\005\375\300\164
\037\045\031\100\121\156\352\202\121\100\337\233\271\010\052\006
\002\325\043\034\023\326\351\333\333\306\260\172\313\173\047\233
\373\340\325\106\044\355\020\113\143\113\245\005\217\272\270\035
\053\246\372\221\342\222\122\275\354\353\147\227\155\232\055\237
\201\062\005\147\062\373\110\010\077\331\045\270\004\045\057\002
\003\001\000\001\243\143\060\141\060\017\006\003\125\035\023\001
\001\377\004\005\060\003\001\001\377\060\037\006\003\125\035\043
\004\030\060\026\200\024\373\056\067\356\343\204\172\047\056\315
\031\065\261\063\174\377\324\104\102\271\060\035\006\003\125\035
\016\004\026\004\024\373\056\067\356\343\204\172\047\056\315\031
\065\261\063\174\377\324\104\102\271\060\016\006\003\125\035\017
\001\001\377\004\004\003\002\001\206\060\015\006\011\052\206\110
\206\367\015\001\001\013\005\000\003\202\002\001\000\215\211\155
\204\105\030\361\117\263\240\357\150\244\300\035\254\060\274\147
\146\260\232\315\266\253\042\031\146\323\073\101\265\020\235\020
\272\162\156\051\044\040\034\001\231\142\323\226\340\342\373\014
\102\327\341\132\304\226\115\124\315\217\312\103\123\375\052\270
\352\370\145\312\001\302\255\140\150\006\237\071\032\121\331\340
\215\046\371\013\116\245\123\045\172\043\244\034\316\010\033\337
\107\210\262\255\076\340\047\207\213\111\214\037\251\107\130\173
\226\362\210\035\030\256\263\321\246\012\224\372\333\323\345\070
\012\153\171\022\063\373\112\131\067\026\100\016\273\336\365\211
\014\361\154\323\367\121\153\136\065\365\333\300\046\352\022\163
\116\251\221\220\246\027\303\154\057\070\324\243\162\224\103\054
\142\341\116\134\062\075\275\114\175\031\107\242\303\111\347\226
\077\217\232\323\073\344\021\330\213\003\334\366\266\140\125\030
\246\201\121\363\341\250\025\152\353\340\013\360\024\061\326\271
\214\105\072\250\020\330\360\271\047\353\367\313\172\357\005\162
\226\265\304\217\226\163\304\350\126\163\234\274\151\121\143\274
\357\147\034\103\032\137\167\031\037\030\370\034\045\051\371\111
\231\051\266\222\075\242\203\067\261\040\221\250\233\060\351\152
\154\264\043\223\145\004\253\021\363\016\035\123\044\111\123\035

\241\077\235\110\222\021\342\175\015\117\365\327\275\242\130\076
\170\235\036\037\053\376\041\273\032\023\266\261\050\144\375\260
\002\000\307\154\200\242\275\026\120\040\017\162\201\137\314\224
\377\273\231\346\272\220\313\352\371\306\014\302\256\305\031\316
\063\241\153\134\273\176\174\064\127\027\255\360\077\256\315\352
\257\231\354\054\124\176\214\316\056\022\126\110\357\027\073\077
\112\136\140\322\334\164\066\274\245\103\143\313\017\133\243\002
\126\011\236\044\054\341\206\201\214\376\253\027\054\372\310\342
\062\032\072\377\205\010\311\203\237\362\112\110\020\124\167\067
\355\242\274\100\276\344\020\164\367\344\133\273\271\363\211\371
\217\101\330\307\344\120\220\065\200\076\034\270\115\220\323\324
\367\303\260\241\176\204\312\167\222\061\054\270\220\261\202\172
\164\116\233\023\046\264\325\120\146\124\170\256\140
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "SSL.com TLS RSA Root CA 2022"
Issuer: CN=SSL.com TLS RSA Root CA 2022,O=SSL
Corporation,C=US
Serial Number:6f:be:da:ad:73:bd:08:40:e2:8b:4d:be:d4:f7:5b:91
Subject: CN=SSL.com TLS RSA Root CA 2022,O=SSL Corporation,C=US
Not Valid Before: Thu Aug 25 16:34:22 2022
Not Valid After : Sun Aug 19 16:34:21 2046
Fingerprint (SHA-256):
8F:AF:7D:2E:2C:B4:70:9B:B8:E0:B3:36:66:BF:75:A5:DD:45:B5:DE:48:0F:8E:A8:D4:BF:E6:BE:BC:17:F2:ED
Fingerprint (SHA1): EC:2C:83:40:72:AF:26:95:10:FF:0E:F2:03:EE:31:70:F6:78:9D:CA
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com TLS RSA Root CA 2022"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\354\054\203\100\162\257\046\225\020\377\016\362\003\356\061\160
\366\170\235\312
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\330\116\306\131\060\330\376\240\326\172\132\054\054\151\170\332
END
CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\030\060\026\006\003\125\004\012\014\017\123\123\114\040\103\157
\162\160\157\162\141\164\151\157\156\061\045\060\043\006\003\125
\004\003\014\034\123\123\114\056\143\157\155\040\124\114\123\040
\122\123\101\040\122\157\157\164\040\103\101\040\062\060\062\062
END

```
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\157\276\332\255\163\275\010\100\342\213\115\276\324\367
\133\221
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "SSL.com TLS ECC Root CA 2022"
#
# Issuer: CN=SSL.com TLS ECC Root CA 2022,O=SSL Corporation,C=US
# Serial Number:14:03:f5:ab:fb:37:8b:17:40:5b:e2:43:b2:a5:d1:c4
# Subject: CN=SSL.com TLS ECC Root CA 2022,O=SSL Corporation,C=US
# Not Valid Before: Thu Aug 25 16:33:48 2022
# Not Valid After : Sun Aug 19 16:33:47 2046
# Fingerprint (SHA-256):
C3:2F:FD:9F:46:F9:36:D1:6C:36:73:99:09:59:43:4B:9A:D6:0A:AF:BB:9E:7C:F3:36:54:F1:44:CC:1B:A1:43
# Fingerprint
 (SHA1): 9F:5F:D9:1A:54:6D:F5:0C:71:F0:EE:7A:BD:17:49:98:84:73:E2:39
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com TLS ECC Root CA 2022"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\030\060\026\006\003\125\004\012\014\017\123\123\114\040\103\157
\162\160\157\162\141\164\151\157\156\061\045\060\043\006\003\125
\004\003\014\034\123\123\114\056\143\157\155\040\124\114\123\040
\105\103\103\040\122\157\157\164\040\103\101\040\062\060\062\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\030\060\026\006\003\125\004\012\014\017\123\123\114\040\103\157
\162\160\157\162\141\164\151\157\156\061\045\060\043\006\003\125
\004\003\014\034\123\123\114\056\143\157\155\040\124\114\123\040
\105\103\103\040\122\157\157\164\040\103\101\040\062\060\062\062
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\024\003\365\253\373\067\213\027\100\133\342\103\262\245
\321\304
END
```

```
CKA_VALUE MULTILINE_OCTAL
\060\202\002\072\060\202\001\300\240\003\002\001\002\002\020\024
\003\365\253\373\067\213\027\100\133\342\103\262\245\321\304\060
\012\006\010\052\206\110\316\075\004\003\003\060\116\061\013\060
\011\006\003\125\004\006\023\002\125\123\061\030\060\026\006\003
\125\004\012\014\017\123\123\114\040\103\157\162\160\157\162\141
\164\151\157\156\061\045\060\043\006\003\125\004\003\014\034\123
\123\114\056\143\157\155\040\124\114\123\040\105\103\103\040\122
\157\157\164\040\103\101\040\062\060\062\062\060\036\027\015\062
\062\060\070\062\065\061\066\063\063\064\070\132\027\015\064\066
\060\070\061\071\061\066\063\063\064\067\132\060\116\061\013\060
\011\006\003\125\004\006\023\002\125\123\061\030\060\026\006\003
\125\004\012\014\017\123\123\114\040\103\157\162\160\157\162\141
\164\151\157\156\061\045\060\043\006\003\125\004\003\014\034\123
\123\114\056\143\157\155\040\124\114\123\040\105\103\103\040\122
\157\157\164\040\103\101\040\062\060\062\062\060\166\060\020\006
\007\052\206\110\316\075\002\001\006\005\053\201\004\000\042\003
\142\000\004\105\051\065\163\372\302\270\043\316\024\175\250\261
\115\240\133\066\356\052\054\123\303\140\011\065\262\044\146\046
\151\300\263\225\326\135\222\100\031\016\306\245\023\160\364\357
\022\121\050\135\347\314\275\371\074\205\301\317\224\220\311\053
\316\222\102\130\131\147\375\224\047\020\144\214\117\004\261\115
\111\344\173\117\233\365\347\010\370\003\210\367\247\303\222\113
\031\124\201\243\143\060\141\060\017\006\003\125\035\023\001\001
\377\004\005\060\003\001\001\377\060\037\006\003\125\035\043\004
\030\060\026\200\024\211\217\057\243\350\053\240\024\124\173\363
\126\270\046\137\147\070\013\234\320\060\035\006\003\125\035\016
\004\026\004\024\211\217\057\243\350\053\240\024\124\173\363\126
\270\046\137\147\070\013\234\320\060\016\006\003\125\035\017\001
\001\377\004\004\003\002\001\206\060\012\006\010\052\206\110\316
\075\004\003\003\003\150\000\060\145\002\060\125\343\042\126\351
\327\222\044\130\117\036\224\062\017\014\002\066\302\375\254\164
\062\116\341\373\034\200\210\243\314\373\327\353\053\377\067\175
\360\355\327\236\165\152\065\166\122\105\340\002\061\000\307\215
\157\102\040\217\276\266\115\131\355\167\115\051\304\040\040\105
\144\206\072\120\306\304\255\055\223\365\030\175\162\355\251\317
\304\254\127\066\050\010\145\337\074\171\146\176\240\352
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "SSL.com TLS ECC Root CA 2022"
# Issuer: CN=SSL.com TLS ECC Root CA 2022,O=SSL Corporation,C=US
# Serial Number:14:03:f5:ab:fb:37:8b:17:40:5b:e2:43:b2:a5:d1:c4
# Subject: CN=SSL.com TLS ECC Root CA 2022,O=SSL Corporation,C=US
# Not Valid Before: Thu Aug 25 16:33:48 2022
```

```
# Not Valid After : Sun Aug 19 16:33:47 2046
# Fingerprint (SHA-256):
 C3:2F:FD:9F:46:F9:36:D1:6C:36:73:99:09:59:43:4B:9A:D6:0A:AF:BB:9E:7C:F3:36:54:F1:44:CC:1B:A1:43
# Fingerprint (SHA1): 9F:5F:D9:1A:54:6D:F5:0C:71:F0:EE:7A:BD:17:49:98:84:73:E2:39
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com TLS ECC Root CA 2022"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\237\137\331\032\124\155\365\014\161\360\356\172\275\027\111\230
\204\163\342\071
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\231\327\134\361\121\066\314\351\316\331\031\056\167\161\126\305
END
CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\030\060\026\006\003\125\004\012\014\017\123\123\114\040\103\157
\162\160\157\162\141\164\151\157\156\061\045\060\043\006\003\125
\004\003\014\034\123\123\114\056\143\157\155\040\124\114\123\040
\105\103\103\040\122\157\157\164\040\103\101\040\062\060\062\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\024\003\365\253\373\067\213\027\100\133\342\103\262\245
\321\304
END
CKA_TRUST_SERVER_AUTH
 CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "SSL.com Client ECC Root CA 2022"
#
# Issuer: CN=SSL.com Client ECC Root CA 2022,O=SSL Corporation,C=US
# Serial Number:76:f8:48:1e:ae:f0:3c:70:1f:e0:3f:25:54:01:83:d5
# Subject: CN=SSL.com Client ECC Root CA 2022,O=SSL Corporation,C=US
# Not Valid Before: Thu Aug 25 16:30:32 2022
# Not Valid After : Sun Aug 19 16:30:31 2046
# Fingerprint (SHA-256):
AD:7D:D5:8D:03:AE:DB:22:A3:0B:50:84:39:49:20:CE:12:23:0C:2D:80:17:AD:9B:81:AB:04:07:9B:DD:02:6B
# Fingerprint (SHA1): 80:7B:1D:9D:65:72:3D:C7:56:F9:EC:C5:00:83:49:F6:F2:AC:F4:86
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "SSL.com Client ECC Root CA 2022"
CKA_CERTIFICATE_TYPE
 CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\030\060\026\006\003\125\004\012\014\017\123\123\114\040\103\157
\162\160\157\162\141\164\151\157\156\061\050\060\046\006\003\125
\004\003\014\037\123\123\114\056\143\157\155\040\103\154\151\145
\156\164\040\105\103\103\040\122\157\157\164\040\103\101\040\062
\060\062\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\030\060\026\006\003\125\004\012\014\017\123\123\114\040\103\157
\162\160\157\162\141\164\151\157\156\061\050\060\046\006\003\125
\004\003\014\037\123\123\114\056\143\157\155\040\103\154\151\145
\156\164\040\105\103\103\040\122\157\157\164\040\103\101\040\062
\060\062\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\166\370\110\036\256\360\074\160\037\340\077\045\124\001
\203\325
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\100\060\202\001\306\240\003\002\001\002\002\020\166
\370\110\036\256\360\074\160\037\340\077\045\124\001\203\325\060
\012\006\010\052\206\110\316\075\004\003\003\060\121\061\013\060
\011\006\003\125\004\006\023\002\125\123\061\030\060\026\006\003
\125\004\012\014\017\123\123\114\040\103\157\162\160\157\162\141
\164\151\157\156\061\050\060\046\006\003\125\004\003\014\037\123
\123\114\056\143\157\155\040\103\154\151\145\156\164\040\105\103
\103\040\122\157\157\164\040\103\101\040\062\060\062\062\060\036
\027\015\062\062\060\070\062\065\061\066\063\060\063\062\132\027
\015\064\066\060\070\061\071\061\066\063\060\063\061\132\060\121
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\030\060
\026\006\003\125\004\012\014\017\123\123\114\040\103\157\162\160
\157\162\141\164\151\157\156\061\050\060\046\006\003\125\004\003
\014\037\123\123\114\056\143\157\155\040\103\154\151\145\156\164
\040\105\103\103\040\122\157\157\164\040\103\101\040\062\060\062
\062\060\166\060\020\006\007\052\206\110\316\075\002\001\006\005
\053\201\004\000\042\003\142\000\004\055\123\176\237\213\076\263
\066\272\120\342\314\353\334\272\046\212\323\214\006\077\147\017
\357\365\027\345\324\256\232\106\052\101\001\007\151\347\147\161
\361\302\003\066\306\360\053\122\216\317\024\222\150\244\076\160
\121\022\151\215\170\242\202\312\051\024\300\344\224\042\262\104
\222\140\157\310\004\244\147\325\242\320\363\320\327\352\216\074
\017\272\322\100\107\220\064\356\175\243\143\060\141\060\017\006
```

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\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060\037
\006\003\125\035\043\004\030\060\026\200\024\267\376\055\142\305
\201\123\315\122\032\057\135\140\240\303\135\373\262\034\034\060
\035\006\003\125\035\016\004\026\004\024\267\376\055\142\305\201
\123\315\122\032\057\135\140\240\303\135\373\262\034\034\060\016
\006\003\125\035\017\001\001\377\004\004\003\002\001\206\060\012
\006\010\052\206\110\316\075\004\003\003\003\150\000\060\145\002
\060\115\007\021\055\021\373\271\046\303\041\335\162\341\027\374
\301\317\024\352\111\316\161\207\216\326\123\334\021\315\135\124
\212\257\331\055\364\214\121\352\274\146\107\342\177\225\203\140
\145\002\061\000\214\041\114\117\273\345\260\120\337\220\142\111
\346\314\221\333\370\077\135\161\221\010\216\117\222\311\177\246
\134\352\023\176\355\155\304\350\303\052\157\134\021\341\245\363
\152\132\232\115
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "SSL.com Client ECC Root CA 2022"
# Issuer: CN=SSL.com Client ECC Root CA 2022,O=SSL Corporation,C=US
# Serial Number:76:f8:48:1e:ae:f0:3c:70:1f:e0:3f:25:54:01:83:d5
# Subject: CN=SSL.com Client ECC Root CA 2022,O=SSL Corporation,C=US
# Not Valid Before: Thu Aug 25 16:30:32 2022
# Not Valid After : Sun Aug 19 16:30:31 2046
# Fingerprint (SHA-256):
AD:7D:D5:8D:03:AE:DB:22:A3:0B:50:84:39:49:20:CE:12:23:0C:2D:80:17:AD:9B:81:AB:04:07:9B:DD:02:6B
# Fingerprint (SHA1): 80:7B:1D:9D:65:72:3D:C7:56:F9:EC:C5:00:83:49:F6:F2:AC:F4:86
CKA_CLASS CK_OBJECT_CLASS
 CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com Client ECC Root CA 2022"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\200\173\035\235\145\162\075\307\126\371\354\305\000\203\111\366
\362\254\364\206
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\063\271\151\231\022\166\125\274\337\257\101\334\042\213\167\200
END
CKA_ISSUER MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\030\060\026\006\003\125\004\012\014\017\123\123\114\040\103\157
\162\160\157\162\141\164\151\157\156\061\050\060\046\006\003\125
\004\003\014\037\123\123\114\056\143\157\155\040\103\154\151\145
\156\164\040\105\103\103\040\122\157\157\164\040\103\101\040\062
```

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\060\062\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\166\370\110\036\256\360\074\160\037\340\077\045\124\001
\203\325
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING
 CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "SSL.com Client RSA Root CA 2022"
#
# Issuer: CN=SSL.com Client RSA Root CA 2022,O=SSL Corporation,C=US
# Serial Number:76:af:ee:88:93:15:45:b6:50:53:9b:80:9c:a4:df:9a
# Subject: CN=SSL.com Client RSA Root CA 2022,O=SSL Corporation,C=US
# Not Valid Before: Thu Aug 25 16:31:07 2022
# Not Valid After : Sun Aug 19 16:31:06 2046
# Fingerprint (SHA-256):
1D:4C:A4:A2:AB:21:D0:09:36:59:80:4F:C0:EB:21:75:A6:17:27:9B:56:A2:47:52:45:C9:51:7A:FE:B5:91:53
# Fingerprint (SHA1): AA:59:70:E5:20:32:9F:CB:D0:D5:79:9F:FB:1B:82:1D:FD:1F:79:65
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com Client RSA Root CA 2022"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\030\060\026\006\003\125\004\012\014\017\123\123\114\040\103\157
\162\160\157\162\141\164\151\157\156\061\050\060\046\006\003\125
\004\003\014\037\123\123\114\056\143\157\155\040\103\154\151\145
\156\164\040\122\123\101\040\122\157\157\164\040\103\101\040\062
\060\062\062
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\030\060\026\006\003\125\004\012\014\017\123\123\114\040\103\157
\162\160\157\162\141\164\151\157\156\061\050\060\046\006\003\125
\004\003\014\037\123\123\114\056\143\157\155\040\103\154\151\145
\156\164\040\122\123\101\040\122\157\157\164\040\103\101\040\062
\060\062\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
```

\002\020\166\257\356\210\223\025\105\266\120\123\233\200\234\244
\337\232
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\217\060\202\003\167\240\003\002\001\002\002\020\166
\257\356\210\223\025\105\266\120\123\233\200\234\244\337\232\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\121
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\030\060
\026\006\003\125\004\012\014\017\123\123\114\040\103\157\162\160
\157\162\141\164\151\157\156\061\050\060\046\006\003\125\004\003
\014\037\123\123\114\056\143\157\155\040\103\154\151\145\156\164
\040\122\123\101\040\122\157\157\164\040\103\101\040\062\060\062
\062\060\036\027\015\062\062\060\070\062\065\061\066\063\061\060
\067\132\027\015\064\066\060\070\061\071\061\066\063\061\060\066
\132\060\121\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040\103
\157\162\160\157\162\141\164\151\157\156\061\050\060\046\006\003
\125\004\003\014\037\123\123\114\056\143\157\155\040\103\154\151
\145\156\164\040\122\123\101\040\122\157\157\164\040\103\101\040
\062\060\062\062\060\202\002\042\060\015\006\011\052\206\110\206
\367\015\001\001\001\005\000\003\202\002\017\000\060\202\002\012
\002\202\002\001\000\270\130\333\106\060\373\311\077\343\310\360
\001\063\064\342\332\110\250\030\351\040\156\232\327\001\341\325
\051\217\060\264\043\152\344\313\142\260\276\342\237\040\275\076
\124\240\071\150\307\206\067\146\164\006\006\357\164\053\332\334
\237\204\251\122\057\220\322\356\176\174\373\245\042\255\157\160
\106\147\226\075\051\324\243\273\126\173\024\004\131\301\041\143
\104\036\262\037\022\134\220\207\145\015\210\366\036\210\042\342
\143\124\273\363\066\370\326\177\334\332\377\051\065\251\306\156
\016\151\133\077\330\276\202\207\025\160\135\260\307\134\022\017
\143\246\070\315\317\163\271\303\016\211\046\067\033\077\142\034
\062\151\321\233\331\377\125\220\061\336\261\143\335\317\305\164
\167\374\357\210\041\123\277\000\061\032\046\054\000\060\245\137
\154\343\344\366\000\212\312\230\207\234\164\003\172\213\146\354
\176\375\243\217\065\045\134\170\245\263\244\373\075\155\251\212
\360\154\210\202\213\375\112\320\157\344\327\243\264\216\064\111
\070\276\316\105\345\322\034\312\136\302\067\024\213\315\146\126
\063\067\235\345\153\354\103\222\144\240\102\332\165\157\300\025
\354\371\151\275\064\271\212\173\372\026\373\125\376\122\040\350
\004\004\126\126\145\365\067\104\230\310\212\106\351\267\254\270
\350\276\142\216\124\066\133\367\073\160\277\135\356\055\272\137
\336\102\031\206\360\177\213\353\010\313\330\276\352\016\102\102
\240\066\163\127\027\355\062\352\320\215\350\007\033\233\231\350
\304\232\142\004\016\110\367\074\022\272\367\130\301\232\214\351
\307\260\043\066\126\064\035\313\154\332\272\007\204\035\375\321
\254\237\346\302\211\357\303\271\154\030\263\151\207\127\137\265
\014\070\133\247\041\044\052\073\247\064\221\236\264\124\352\050
\117\323\301\243\213\344\346\053\325\362\235\277\233\141\000\042

\335\326\113\104\037\077\135\126\376\336\234\170\314\231\133\252
\344\275\272\333\103\113\255\114\046\114\243\115\064\212\154\164
\066\023\333\142\374\233\262\005\201\377\256\077\014\315\366\033
\242\364\071\347\312\365\114\134\373\124\167\065\200\132\300\022
\241\023\001\063\147\075\235\201\241\251\365\205\044\130\210\170
\347\364\343\150\125\002\003\001\000\001\243\143\060\141\060\017
\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060
\037\006\003\125\035\043\004\030\060\026\200\024\360\070\102\224
\064\251\074\000\177\122\356\071\245\367\113\015\274\152\175\043
\060\035\006\003\125\035\016\004\026\004\024\360\070\102\224\064
\251\074\000\177\122\356\071\245\367\113\015\274\152\175\043\060
\016\006\003\125\035\017\001\001\377\004\004\003\002\001\206\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\003\202
\002\001\000\231\117\333\360\352\326\021\372\052\375\310\253\155
\344\016\163\142\322\102\237\025\376\174\160\122\077\144\207\202
\061\077\105\100\056\341\042\237\006\146\051\374\226\323\055\215
\266\070\307\331\363\047\301\131\051\240\214\366\163\044\017\050
\042\327\116\141\335\023\335\333\237\062\122\223\373\117\314\352
\070\074\230\152\003\253\026\257\041\321\102\256\175\105\053\352
\304\317\212\131\237\202\160\166\072\370\142\046\311\020\227\130
\100\044\244\055\271\057\051\200\047\341\211\153\162\312\111\010
\161\067\123\005\361\200\316\323\102\002\322\374\302\321\224\006
\356\007\342\366\203\342\177\237\347\273\126\303\133\277\335\225
\223\011\036\044\301\317\046\315\255\244\256\302\264\151\347\252
\265\355\067\224\351\335\321\143\205\153\232\172\112\126\166\334
\031\205\050\324\344\306\244\330\270\226\101\167\320\264\131\361
\106\005\207\207\002\037\151\271\202\030\320\103\331\046\332\032
\147\250\326\165\166\352\362\155\016\102\377\210\046\242\156\204
\376\176\142\033\360\306\075\355\300\034\152\307\221\326\270\000
\067\111\233\271\204\005\241\315\156\061\326\104\352\123\213\272
\123\230\035\241\220\212\351\205\370\033\362\223\130\303\310\334
\232\046\117\076\040\317\117\103\363\020\214\177\020\141\172\066
\312\252\013\175\314\237\107\104\131\256\245\225\306\231\123\343
\007\153\075\111\020\260\030\377\135\016\205\103\024\113\347\153
\323\112\265\262\140\141\334\151\111\002\043\135\350\222\161\303
\234\237\105\147\171\036\334\062\206\272\252\125\074\144\157\062
\265\020\100\025\336\162\100\170\340\156\160\273\156\353\011\350
\071\331\254\272\222\165\335\103\312\272\001\225\255\032\201\053
\072\360\343\305\057\014\030\115\020\306\256\300\355\376\005\122
\177\031\005\313\251\257\065\010\014\070\042\344\376\126\345\123
\076\277\344\326\263\331\010\303\075\325\063\062\201\044\305\251
\341\145\021\270\062\063\060\161\030\111\035\032\105\306\232\024
\212\130\071\050\156\363\313\121\271\111\046\144\170\003\307\221
\021\203\251\271\220\064\266\157\252\005\236\205\050\127\231\276
\177\047\006\111\142\115\241\374\011\341\053\106\011\114\024\233
\126\217\105
END
CKA_NSS_MOZILLA_CA_POLICY

```
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "SSL.com Client RSA Root CA 2022"
# Issuer: CN=SSL.com Client RSA Root CA 2022,O=SSL Corporation,C=US
# Serial Number:76:af:ee:88:93:15:45:b6:50:53:9b:80:9c:a4:df:9a
# Subject: CN=SSL.com Client RSA Root CA 2022,O=SSL Corporation,C=US
# Not Valid Before: Thu Aug 25 16:31:07 2022
# Not Valid
 After : Sun Aug 19 16:31:06 2046
# Fingerprint (SHA-256):
1D:4C:A4:A2:AB:21:D0:09:36:59:80:4F:C0:EB:21:75:A6:17:27:9B:56:A2:47:52:45:C9:51:7A:FE:B5:91:53
# Fingerprint (SHA1): AA:59:70:E5:20:32:9F:CB:D0:D5:79:9F:FB:1B:82:1D:FD:1F:79:65
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com Client RSA Root CA 2022"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\252\131\160\345\040\062\237\313\320\325\171\237\373\033\202\035
\375\037\171\145
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\011\215\322\312\256\154\024\276\276\014\224\157\067\027\040\316
END
CKA_ISSUER MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\030\060\026\006\003\125\004\012\014\017\123\123\114\040\103\157
\162\160\157\162\141\164\151\157\156\061\050\060\046\006\003\125
\004\003\014\037\123\123\114\056\143\157\155\040\103\154\151\145
\156\164\040\122\123\101\040\122\157\157\164\040\103\101\040\062
\060\062\062
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\166\257\356\210\223\025\105\266\120\123\233\200\234\244
\337\232
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Atos TrustedRoot Root CA ECC G2 2020"
#
# Issuer: CN=Atos TrustedRoot Root CA ECC G2 2020,O=Atos,C=DE
```

```
# Serial Number:0b:73:28:11:18:74:30:1c:ef:6f:08:84
# Subject: CN=Atos TrustedRoot Root CA ECC G2 2020,O=Atos,C=DE
# Not Valid Before: Tue Dec 15 08:39:10 2020
# Not Valid After : Mon Dec 10 08:39:09 2040
# Fingerprint (SHA-256):
E3:86:55:F4:B0:19:0C:84:D3:B3:89:3D:84:0A:68:7E:19:0A:25:6D:98:05:2F:15:9E:6D:4A:39:F5:89:A6:EB
# Fingerprint (SHA1): 61:25:56:DA:62:94:E5:AE:B3:3C:F8:11:BD:B1:DC:F8:A5:D8:B3:E4
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL
 UTF8 "Atos TrustedRoot Root CA ECC G2 2020"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\113\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\015\060\013\006\003\125\004\012\014\004\101\164\157\163\061\055
\060\053\006\003\125\004\003\014\044\101\164\157\163\040\124\162
\165\163\164\145\144\122\157\157\164\040\122\157\157\164\040\103
\101\040\105\103\103\040\107\062\040\062\060\062\060
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\113\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\015\060\013\006\003\125\004\012\014\004\101\164\157\163\061\055
\060\053\006\003\125\004\003\014\044\101\164\157\163\040\124\162
\165\163\164\145\144\122\157\157\164\040\122\157\157\164\040\103
\101\040\105\103\103\040\107\062\040\062\060\062\060
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\014\013\163\050\021\030\164\060\034\357\157\010\204
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\061\060\202\001\266\240\003\002\001\002\002\014\013
\163\050\021\030\164\060\034\357\157\010\204\060\012\006\010\052
\206\110\316\075\004\003\003\060\113\061\013\060\011\006\003\125
\004\006\023\002\104\105\061\015\060\013\006\003\125\004\012\014
\004\101\164\157\163\061\055\060\053\006\003\125\004\003\014\044
\101\164\157\163\040\124\162\165\163\164\145\144\122\157\157\164
\040\122\157\157\164\040\103\101\040\105\103\103\040\107\062\040
\062\060\062\060\060\036\027\015\062\060\061\062\061\065\060\070
\063\071\061\060\132\027\015\064\060\061\062\061\060\060\070\063
\071\060\071\132\060\113\061\013\060\011\006\003\125\004\006\023
\002\104\105\061\015\060\013\006\003\125\004\012\014\004\101\164
\157\163\061\055\060\053\006\003\125\004\003\014\044\101\164\157
\163\040\124\162\165\163\164\145\144\122\157\157\164\040\122\157
\157\164\040\103\101\040\105\103\103\040\107\062\040\062\060\062
\060\060\166\060\020\006\007\052\206\110\316\075\002\001\006\005
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\053\201\004\000\042\003\142\000\004\310\134\200\312\116\302\050
\037\127\277\070\346\141\043\374\320\251\133\226\026\026\303\014
\136\025\245\220\011\377\070\050\264\172\036\012\326\123\052\301
\273\220\100\164\067\351\201\350\215\057\150\001\065\174\122\056
\330\364\130\263\021\034\133\331\207\030\223\221\055\354\235\332
\154\236\155\204\110\374\302\211\005\353\230\023\002\001\154\123
\036\016\111\143\130\107\261\257\302\243\143\060\141\060\017\006
\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060\037
\006\003\125\035\043\004\030\060\026\200\024\133\037\304\161\154
\262\033\237\276\134\037\214\375\263\266\373\263\016\011\207\060
\035\006\003\125\035\016\004\026\004\024\133\037\304\161\154\262
\033\237\276\134\037\214\375\263\266\373\263\016\011\207\060\016
\006\003\125\035\017\001\001\377\004\004\003\002\001\206\060\012
\006\010\052\206\110\316\075\004\003\003\003\151\000\060\146\002
\061\000\354\340\231\375\335\344\124\301\313\037\350\076\050\327
\025\131\112\202\312\123\060\354\353\066\245\271\310\316\223\107
\126\310\141\246\341\155\222\123\225\217\366\343\125\123\360\335
\172\347\002\061\000\260\207\325\033\263\140\374\221\215\200\312
\242\033\121\113\070\124\313\252\036\173\327\345\104\225\026\057
\074\104\170\056\045\272\352\220\344\354\122\356\127\354\003\204
\363\136\333\026\015
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Atos TrustedRoot Root CA ECC G2 2020"
Issuer: CN=Atos TrustedRoot Root CA ECC G2 2020,O=Atos,C=DE
Serial Number:0b:73:28:11:18:74:30:1c:ef:6f:08:84
Subject: CN=Atos TrustedRoot Root CA ECC G2 2020,O=Atos,C=DE
Not Valid Before: Tue Dec 15 08:39:10 2020
Not Valid After : Mon Dec 10 08:39:09 2040
Fingerprint (SHA-256):
E3:86:55:F4:B0:19:0C:84:D3:B3:89:3D:84:0A:68:7E:19:0A:25:6D:98:05:2F:15:9E:6D:4A:39:F5:89:A6:EB
Fingerprint (SHA1): 61:25:56:DA:62:94:E5:AE:B3:3C:F8:11:BD:B1:DC:F8:A5:D8:B3:E4
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE
 CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Atos TrustedRoot Root CA ECC G2 2020"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\141\045\126\332\142\224\345\256\263\074\370\021\275\261\334\370
\245\330\263\344
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\225\320\233\116\332\275\252\035\225\265\242\302\135\337\210\214

```
END
CKA_ISSUER MULTILINE_OCTAL
\060\113\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\015\060\013\006\003\125\004\012\014\004\101\164\157\163\061\055
\060\053\006\003\125\004\003\014\044\101\164\157\163\040\124\162
\165\163\164\145\144\122\157\157\164\040\122\157\157\164\040\103
\101\040\105\103\103\040\107\062\040\062\060\062\060
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\014\013\163\050\021\030\164\060\034\357\157\010\204
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Atos TrustedRoot
 Root CA RSA G2 2020"
#
# Issuer: CN=Atos TrustedRoot Root CA RSA G2 2020,O=Atos,C=DE
# Serial Number:47:ba:29:46:55:3e:16:92:97:b0:ab:40
# Subject: CN=Atos TrustedRoot Root CA RSA G2 2020,O=Atos,C=DE
# Not Valid Before: Tue Dec 15 08:41:23 2020
# Not Valid After : Mon Dec 10 08:41:22 2040
# Fingerprint (SHA-256):
78:83:3A:78:3B:B2:98:6C:25:4B:93:70:D3:C2:0E:5E:BA:8F:A7:84:0C:BF:63:FE:17:29:7A:0B:01:19:68:5E
# Fingerprint (SHA1): 32:D1:27:FA:93:B1:C1:4C:99:E2:4A:40:BC:7F:94:41:1B:5A:AC:A4
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Atos TrustedRoot Root CA RSA G2 2020"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\113\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\015\060\013\006\003\125\004\012\014\004\101\164\157\163\061\055
\060\053\006\003\125\004\003\014\044\101\164\157\163\040\124\162
\165\163\164\145\144\122\157\157\164\040\122\157\157\164\040\103
\101\040\122\123\101\040\107\062\040\062\060\062\060
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\113\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\015\060\013\006\003\125\004\012\014\004\101\164\157\163\061\055
\060\053\006\003\125\004\003\014\044\101\164\157\163\040\124\162
\165\163\164\145\144\122\157\157\164\040\122\157\157\164\040\103
```

\101\040\122\123\101\040\107\062\040\062\060\062\060
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\014\107\272\051\106\125\076\026\222\227\260\253\100
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\177\060\202\003\147\240\003\002\001\002\002\014\107
\272\051\106\125\076\026\222\227\260\253\100\060\015\006\011\052
\206\110\206\367\015\001\001\014\005\000\060\113\061\013\060\011
\006\003\125\004\006\023\002\104\105\061\015\060\013\006\003\125
\004\012\014\004\101\164\157\163\061\055\060\053\006\003\125\004
\003\014\044\101\164\157\163\040\124\162\165\163\164\145\144\122
\157\157\164\040\122\157\157\164\040\103\101\040\122\123\101\040
\107\062\040\062\060\062\060\060\036\027\015\062\060\061\062\061
\065\060\070\064\061\062\063\132\027\015\064\060\061\062\061\060
\060\070\064\061\062\062\132\060\113\061\013\060\011\006\003\125
\004\006\023\002\104\105\061\015\060\013\006\003\125\004\012\014
\004\101\164\157\163\061\055\060\053\006\003\125\004\003\014\044
\101\164\157\163\040\124\162\165\163\164\145\144\122\157\157\164
\040\122\157\157\164\040\103\101\040\122\123\101\040\107\062\040
\062\060\062\060\060\202\002\042\060\015\006\011\052\206\110\206
\367\015\001\001\001\005\000\003\202\002\017\000\060\202\002\012
\002\202\002\001\000\226\061\205\112\252\017\062\376\171\341\103
\207\234\373\043\267\216\177\015\124\275\307\142\223\167\344\034
\065\004\166\243\003\213\042\356\304\204\335\245\223\156\156\262
\216\011\003\353\121\026\061\027\252\151\025\030\016\147\164\043
\136\352\232\175\265\071\076\075\202\251\153\341\376\251\034\260
\255\132\115\114\170\203\101\213\317\362\035\142\232\230\004\234
\143\351\253\145\376\110\035\044\145\007\107\076\271\221\056\351
\235\233\177\032\065\251\064\260\267\345\160\063\357\112\162\121
\266\007\277\140\077\052\237\235\124\337\363\327\224\111\121\003
\132\100\251\150\335\021\131\134\370\166\246\274\120\122\020\355
\254\354\225\340\324\203\153\111\332\012\117\231\203\336\062\203
\110\203\147\225\262\176\347\201\205\075\315\202\367\312\002\355
\155\210\135\010\215\270\065\277\052\151\060\231\273\113\321\101
\333\105\240\223\231\121\201\220\066\010\252\212\266\350\217\263
\313\356\345\106\015\162\165\365\111\154\341\242\177\057\274\355
\204\246\067\356\336\302\117\071\116\366\236\360\311\321\233\060
\235\111\155\341\332\377\022\020\214\326\345\231\173\005\266\175
\260\011\307\244\370\262\034\071\225\071\063\364\065\316\045\142
\173\260\137\040\363\313\155\370\154\122\024\144\104\217\323\310
\251\166\007\345\257\161\231\055\055\004\045\110\166\257\303\347
\314\103\362\007\274\112\044\044\067\335\372\156\224\011\157\114
\136\001\264\376\124\354\043\226\245\136\335\206\377\351\106\052
\361\350\334\354\245\075\257\157\252\016\017\264\165\372\076\010
\271\046\105\117\146\206\114\274\031\270\341\325\065\356\202\204
\310\323\253\022\347\315\163\063\142\167\364\027\313\275\064\166
\052\005\316\225\345\170\171\113\236\260\215\371\074\130\070\221

\352\136\207\070\300\267\102\375\252\114\207\043\255\004\040\261
\176\166\102\332\273\266\026\272\127\310\216\023\372\165\325\010
\114\257\070\221\252\357\217\372\237\111\056\124\174\012\126\261
\172\372\304\116\057\324\243\372\026\212\320\225\345\227\246\377
\303\374\174\016\107\130\363\177\007\173\022\334\127\077\055\343
\241\115\133\122\114\063\207\231\250\011\173\154\176\016\362\317
\126\102\236\353\005\002\003\001\000\001\243\143\060\141\060\017
\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060
\037\006\003\125\035\043\004\030\060\026\200\024\040\045\363\007
\375\247\157\361\226\356\221\020\151\314\232\357\175\310\150\170
\060\035\006\003\125\035\016\004\026\004\024\040\045\363\007\375
\247\157\361\226\356\221\020\151\314\232\357\175\310\150\170\060
\016\006\003\125\035\017\001\001\377\004\004\003\002\001\206\060
\015\006\011\052\206\110\206\367\015\001\001\014\005\000\003\202
\002\001\000\044\053\116\230\362\035\027\355\331\166\046\266\060
\063\350\151\105\241\121\113\122\330\172\072\060\266\344\022\352
\277\237\114\340\004\244\366\065\306\376\241\060\367\123\205\222
\255\124\005\127\137\222\345\052\336\066\047\236\173\023\107\311
\152\165\257\374\363\067\347\014\365\075\001\163\265\151\121\370
\275\131\321\272\013\370\272\272\144\047\103\263\174\203\225\212
\347\236\023\226\327\157\112\226\101\111\213\016\040\255\026\306
\367\246\207\133\210\022\211\213\211\312\022\322\126\257\042\001
\041\106\351\253\230\077\247\210\336\344\313\052\232\165\031\372
\071\136\011\005\327\003\062\032\270\027\121\010\307\000\100\175
\364\276\370\014\131\364\151\166\156\323\244\130\133\136\046\163
\344\102\125\006\136\170\100\017\323\070\237\357\046\121\160\164
\221\361\167\142\001\350\331\313\353\241\337\071\062\035\273\153
\375\161\376\353\317\245\346\024\375\000\200\023\306\232\000\110
\260\231\005\351\256\200\110\373\011\077\121\024\265\271\347\140
\115\115\312\057\201\041\356\122\014\145\172\334\365\211\111\114
\060\222\064\130\200\062\131\261\015\377\044\141\017\347\012\102
\320\173\274\370\216\047\107\077\160\235\047\331\266\006\075\245
\273\313\136\217\256\016\123\307\234\152\157\073\114\017\243\100
\160\250\232\007\316\324\156\133\007\242\322\342\124\266\275\157
\063\162\143\255\121\230\341\217\166\361\152\007\070\045\376\366
\142\316\137\333\143\302\156\231\357\006\334\271\336\031\032\350
\124\075\175\322\166\165\331\136\076\062\110\247\214\362\236\162
\014\370\270\130\270\027\043\245\024\207\165\130\172\000\201\007
\042\071\152\114\224\240\265\242\333\247\054\301\260\361\243\233
\300\114\367\155\160\352\061\237\361\256\175\076\163\050\331\241
\337\372\223\360\233\260\360\342\315\045\040\165\357\342\175\062
\005\311\233\166\356\313\275\061\036\371\224\230\113\044\130\126
\110\300\336\006\114\275\246\064\135\355\026\141\143\163\373\031
\342\372\133\330\227\165\324\155\236\140\071\136\224\213\002\054
\353\231\316\140\052\156\033\214\247\113\274\375\066\346\230\037
\145\362\177\361\343\217\114\200\106\066\130\266\241\145\313\316
\034\104\165
END

```
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Atos TrustedRoot Root CA RSA G2 2020"
# Issuer: CN=Atos TrustedRoot Root CA RSA G2 2020,O=Atos,C=DE
# Serial Number:47:ba:29:46:55:3e:16:92:97:b0:ab:40
# Subject: CN=Atos TrustedRoot Root CA RSA G2 2020,O=Atos,C=DE
# Not Valid Before: Tue Dec 15 08:41:23 2020
# Not Valid After : Mon Dec 10 08:41:22 2040
# Fingerprint (SHA-256):
78:83:3A:78:3B:B2:98:6C:25:4B:93:70:D3:C2:0E:5E:BA:8F:A7:84:0C:BF:63:FE:17:29:7A:0B:01:19:68:5E
# Fingerprint (SHA1): 32:D1:27:FA:93:B1:C1:4C:99:E2:4A:40:BC:7F:94:41:1B:5A:AC:A4
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN
 CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Atos TrustedRoot Root CA RSA G2 2020"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\062\321\047\372\223\261\301\114\231\342\112\100\274\177\224\101
\033\132\254\244
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\333\077\351\043\365\264\214\335\350\263\076\250\265\137\146\066
END
CKA_ISSUER MULTILINE_OCTAL
\060\113\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\015\060\013\006\003\125\004\012\014\004\101\164\157\163\061\055
\060\053\006\003\125\004\003\014\044\101\164\157\163\040\124\162
\165\163\164\145\144\122\157\157\164\040\122\157\157\164\040\103
\101\040\122\123\101\040\107\062\040\062\060\062\060
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\014\107\272\051\106\125\076\026\222\227\260\253\100
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED
 CK_BBOOL CK_FALSE

#
# Certificate "Atos TrustedRoot Root CA ECC TLS 2021"
#
# Issuer: C=DE,O=Atos,CN=Atos TrustedRoot Root CA ECC TLS 2021
# Serial Number:3d:98:3b:a6:66:3d:90:63:f7:7e:26:57:38:04:ef:00
```

```
# Subject: C=DE,O=Atos,CN=Atos TrustedRoot Root CA ECC TLS 2021
# Not Valid Before: Thu Apr 22 09:26:23 2021
# Not Valid After : Wed Apr 17 09:26:22 2041
# Fingerprint (SHA-256):
B2:FA:E5:3E:14:CC:D7:AB:92:12:06:47:01:AE:27:9C:1D:89:88:FA:CB:77:5F:A8:A0:08:91:4E:66:39:88:A8
# Fingerprint (SHA1): 9E:BC:75:10:42:B3:02:F3:81:F4:F7:30:62:D4:8F:C3:A7:51:B2:DD
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Atos TrustedRoot Root CA ECC TLS 2021"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\114\061\056\060\054\006\003\125\004\003\014\045\101\164\157
\163\040\124\162\165\163\164\145\144\122\157\157\164\040\122\157
\157\164\040\103\101\040\105\103\103\040\124\114\123\040\062\060
\062\061\061\015\060\013\006\003\125\004\012\014\004\101\164\157
\163\061\013\060\011\006\003\125\004\006\023\002\104\105
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\114\061\056\060\054\006\003\125\004\003\014\045\101\164\157
\163\040\124\162\165\163\164\145\144\122\157\157\164\040\122\157
\157\164\040\103\101\040\105\103\103\040\124\114\123\040\062\060
\062\061\061\015\060\013\006\003\125\004\012\014\004\101\164\157
\163\061\013\060\011\006\003\125\004\006\023\002\104\105
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\075\230\073\246\146\075\220\143\367\176\046\127\070\004
\357\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\025\060\202\001\233\240\003\002\001\002\002\020\075
\230\073\246\146\075\220\143\367\176\046\127\070\004\357\000\060
\012\006\010\052\206\110\316\075\004\003\003\060\114\061\056\060
\054\006\003\125\004\003\014\045\101\164\157\163\040\124\162\165
\163\164\145\144\122\157\157\164\040\122\157\157\164\040\103\101
\040\105\103\103\040\124\114\123\040\062\060\062\061\061\015\060
\013\006\003\125\004\012\014\004\101\164\157\163\061\013\060\011
\006\003\125\004\006\023\002\104\105\060\036\027\015\062\061\060
\064\062\062\060\071\062\066\062\063\132\027\015\064\061\060\064
\061\067\060\071\062\066\062\062\132\060\114\061\056\060\054\006
\003\125\004\003\014\045\101\164\157\163\040\124\162\165\163\164
\145\144\122\157\157\164\040\122\157\157\164\040\103\101\040\105
\103\103\040\124\114\123\040\062\060\062\061\061\015\060\013\006
\003\125\004\012\014\004\101\164\157\163\061\013\060\011\006\003
\125\004\006\023\002\104\105\060\166\060\020\006\007\052\206\110
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\316\075\002\001\006\005\053\201\004\000\042\003\142\000\004\226
\206\130\050\067\012\147\320\240\336\044\031\031\341\344\005\007
\037\227\355\350\144\202\271\366\304\161\120\316\212\014\377\327
\265\166\273\241\154\223\154\203\242\150\156\245\331\276\054\210
\225\101\315\135\335\261\312\203\143\203\314\300\276\164\331\340
\235\244\356\112\116\126\340\230\051\101\223\122\020\325\044\070
\002\062\147\361\224\022\157\357\327\305\336\056\375\031\200\243
\102\060\100\060\017\006\003\125\035\023\001\001\377\004\005\060
\003\001\001\377\060\035\006\003\125\035\016\004\026\004\024\166
\050\045\326\175\340\146\232\172\011\262\152\073\216\063\327\066
\323\117\242\060\016\006\003\125\035\017\001\001\377\004\004\003
\002\001\206\060\012\006\010\052\206\110\316\075\004\003\003\003
\150\000\060\145\002\060\133\231\051\363\234\061\266\211\153\154
\326\275\167\341\174\347\121\176\270\072\315\243\066\137\174\367
\074\167\076\344\120\255\250\347\322\131\014\046\216\060\073\156
\010\052\302\247\132\310\002\061\000\231\343\014\347\243\303\257
\323\111\056\106\202\043\146\135\311\000\024\022\375\070\364\341
\230\153\167\051\172\333\044\317\145\100\277\322\334\214\021\350
\364\175\177\040\204\251\102\344\050
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Atos TrustedRoot
Root CA ECC TLS 2021"
Issuer: C=DE,O=Atos,CN=Atos TrustedRoot Root CA ECC TLS 2021
Serial Number:3d:98:3b:a6:66:3d:90:63:f7:7e:26:57:38:04:ef:00
Subject: C=DE,O=Atos,CN=Atos TrustedRoot Root CA ECC TLS 2021
Not Valid Before: Thu Apr 22 09:26:23 2021
Not Valid After : Wed Apr 17 09:26:22 2041
Fingerprint (SHA-256):
B2:FA:E5:3E:14:CC:D7:AB:92:12:06:47:01:AE:27:9C:1D:89:88:FA:CB:77:5F:A8:A0:08:91:4E:66:39:88:A8
Fingerprint (SHA1): 9E:BC:75:10:42:B3:02:F3:81:F4:F7:30:62:D4:8F:C3:A7:51:B2:DD
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Atos TrustedRoot Root CA ECC TLS 2021"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\236\274\165\020\102\263\002\363\201\364\367\060\142\324\217\303
\247\121\262\335
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\026\237\255\361\160\255\171\326\355\051\264\321\305\171\160\250
END
CKA_ISSUER MULTILINE_OCTAL

\060\114\061\056\060\054\006\003\125\004\003\014\045\101\164\157
\163\040\124\162\165\163\164\145\144\122\157\157\164\040\122\157
\157\164\040\103\101\040\105\103\103\040\124\114\123\040\062\060
\062\061\061\015\060\013\006\003\125\004\012\014\004\101\164\157
\163\061\013\060\011\006\003\125\004\006\023\002\104\105
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\075\230\073\246\146\075\220\143\367\176\046\127\070\004
\357\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Atos TrustedRoot Root CA RSA TLS 2021"
#
Issuer: C=DE,O=Atos,CN=Atos TrustedRoot Root CA RSA TLS 2021
Serial Number:53:d5:cf:e6:19:93:0b:fb:2b:05:12:d8:c2:2a:a2:a4
Subject: C=DE,O=Atos,CN=Atos TrustedRoot Root CA RSA TLS 2021
Not Valid Before: Thu Apr 22 09:21:10 2021
Not Valid After : Wed Apr 17 09:21:09 2041
Fingerprint (SHA-256):
81:A9:08:8E:A5:9F:B3:64:C5:48:A6:F8:55:59:09:9B:6F:04:05:EF:BF:18:E5:32:4E:C9:F4:57:BA:00:11:2F
#
Fingerprint (SHA1): 18:52:3B:0D:06:37:E4:D6:3A:DF:23:E4:98:FB:5B:16:FB:86:74:48
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Atos TrustedRoot Root CA RSA TLS 2021"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\114\061\056\060\054\006\003\125\004\003\014\045\101\164\157
\163\040\124\162\165\163\164\145\144\122\157\157\164\040\122\157
\157\164\040\103\101\040\122\123\101\040\124\114\123\040\062\060
\062\061\061\015\060\013\006\003\125\004\012\014\004\101\164\157
\163\061\013\060\011\006\003\125\004\006\023\002\104\105
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\114\061\056\060\054\006\003\125\004\003\014\045\101\164\157
\163\040\124\162\165\163\164\145\144\122\157\157\164\040\122\157
\157\164\040\103\101\040\122\123\101\040\124\114\123\040\062\060
\062\061\061\015\060\013\006\003\125\004\012\014\004\101\164\157
\163\061\013\060\011\006\003\125\004\006\023\002\104\105

END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\123\325\317\346\031\223\013\373\053\005\022\330\302\052
\242\244
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\144\060\202\003\114\240\003\002\001\002\002\020\123
\325\317\346\031\223\013\373\053\005\022\330\302\052\242\244\060
\015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\114
\061\056\060\054\006\003\125\004\003\014\045\101\164\157\163\040
\124\162\165\163\164\145\144\122\157\157\164\040\122\157\157\164
\040\103\101\040\122\123\101\040\124\114\123\040\062\060\062\061
\061\015\060\013\006\003\125\004\012\014\004\101\164\157\163\061
\013\060\011\006\003\125\004\006\023\002\104\105\060\036\027\015
\062\061\060\064\062\062\060\071\062\061\061\060\132\027\015\064
\061\060\064\061\067\060\071\062\061\060\071\132\060\114\061\056
\060\054\006\003\125\004\003\014\045\101\164\157\163\040\124\162
\165\163\164\145\144\122\157\157\164\040\122\157\157\164\040\103
\101\040\122\123\101\040\124\114\123\040\062\060\062\061\061\015
\060\013\006\003\125\004\012\014\004\101\164\157\163\061\013\060
\011\006\003\125\004\006\023\002\104\105\060\202\002\042\060\015
\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\002
\017\000\060\202\002\012\002\202\002\001\000\266\200\016\304\171
\275\005\214\175\260\243\235\115\042\115\313\360\101\227\115\131
\340\321\376\126\214\227\362\327\275\217\154\267\043\217\137\325
\304\330\101\313\362\002\036\161\345\351\366\136\313\010\052\136
\060\362\055\146\307\204\033\144\127\070\235\165\055\126\306\057
\141\357\226\374\040\106\275\353\324\173\077\077\174\107\070\004
\251\033\252\122\337\023\067\323\025\025\116\275\137\174\257\255
\143\307\171\334\010\173\325\240\345\367\133\165\254\200\125\231
\222\141\233\315\052\027\175\333\217\364\265\152\352\027\112\144
\050\146\025\051\154\002\361\153\325\272\243\063\334\132\147\247
\005\342\277\145\266\026\260\020\355\315\120\063\311\160\120\354
\031\216\260\307\362\164\133\153\104\306\175\226\271\230\010\131
\146\336\051\001\233\364\052\155\323\025\072\220\152\147\361\264
\153\146\331\041\353\312\331\142\174\106\020\134\336\165\111\147
\236\102\371\376\165\251\243\255\377\166\012\147\100\343\305\367
\215\307\205\232\131\236\142\232\152\355\105\207\230\147\262\325
\112\074\327\264\073\000\015\300\217\037\341\100\304\256\154\041
\334\111\176\176\312\262\215\155\266\277\223\057\241\134\076\217
\312\355\200\216\130\341\333\127\317\205\066\070\262\161\244\011
\214\222\211\010\210\110\361\100\143\030\262\133\214\132\343\303
\323\027\252\253\031\243\054\033\344\325\306\342\146\172\327\202
\031\246\073\026\054\057\161\207\137\105\236\225\163\223\302\102
\201\041\023\226\327\235\273\223\150\025\372\235\244\035\214\362
\201\340\130\006\275\311\266\343\366\211\135\211\371\254\104\241
\313\153\372\026\361\307\120\075\044\332\367\303\344\207\325\126

\361\117\220\060\372\105\011\131\332\064\316\340\023\034\004\174
\000\324\233\206\244\100\274\331\334\114\127\176\256\267\063\266
\136\166\341\145\213\146\337\215\312\327\230\257\316\066\230\214
\234\203\231\003\160\363\257\164\355\306\016\066\347\275\354\301
\163\247\224\132\313\222\144\202\246\000\301\160\241\156\054\051
\341\130\127\354\132\174\231\153\045\244\220\072\200\364\040\235
\232\316\307\055\371\262\113\051\225\203\351\065\215\247\111\110
\247\017\114\031\221\320\365\277\020\340\161\002\003\001\000\001
\243\102\060\100\060\017\006\003\125\035\023\001\001\377\004\005
\060\003\001\001\377\060\035\006\003\125\035\016\004\026\004\024
\164\111\231\321\377\264\172\150\105\165\303\176\264\334\314\316
\071\063\332\010\060\016\006\003\125\035\017\001\001\377\004\004
\003\002\001\206\060\015\006\011\052\206\110\206\367\015\001\001
\014\005\000\003\202\002\001\000\043\103\123\044\142\134\155\375
\076\302\317\125\000\154\305\126\210\271\016\335\072\342\045\015
\225\112\227\312\200\211\356\052\315\145\370\333\026\340\011\222
\340\030\307\170\230\273\363\354\102\122\373\251\244\202\327\115
\330\212\374\344\116\375\253\220\304\070\165\062\204\237\377\263
\260\053\002\063\066\300\020\220\157\035\234\257\341\151\223\354
\243\105\057\024\237\365\114\052\145\103\162\014\367\303\370\225
\213\024\363\205\040\142\335\124\123\335\054\334\030\225\151\117
\203\107\160\100\063\130\167\022\014\242\353\122\061\036\114\311
\250\316\305\357\303\321\255\340\153\003\000\064\046\264\124\041
\065\227\001\334\137\033\361\174\347\125\372\055\150\167\173\323
\151\314\323\016\153\272\115\166\104\326\302\025\232\046\354\260
\305\365\273\321\172\164\302\154\315\305\265\136\366\114\346\133
\055\201\333\263\267\072\227\236\355\317\106\262\120\075\204\140
\231\161\265\063\265\127\105\346\102\107\165\152\016\260\010\014
\256\275\336\367\273\017\130\075\217\003\061\350\075\202\120\312
\057\136\014\135\264\227\276\040\064\007\364\304\022\341\356\327
\260\331\131\055\151\367\061\004\364\362\371\253\371\023\061\370
\001\167\016\075\102\043\046\314\232\162\147\121\041\172\314\074
\205\250\352\041\152\073\333\132\074\245\064\236\232\300\054\337
\200\234\051\340\337\167\224\321\242\200\102\377\152\114\133\021
\320\365\315\242\276\256\314\121\134\303\325\124\173\014\256\326
\271\006\167\200\342\357\007\032\150\314\131\121\255\176\134\147
\153\271\333\342\007\102\133\270\001\005\130\071\115\344\273\230
\243\261\062\354\331\243\326\157\224\043\377\073\267\051\145\346
\007\351\357\266\031\352\347\302\070\035\062\210\220\074\023\053
\156\314\357\253\167\006\064\167\204\117\162\344\201\204\371\271
\164\064\336\166\117\222\052\123\261\045\071\333\074\377\345\076
\246\016\345\153\236\377\333\354\057\164\203\337\216\264\263\251
\336\024\115\377\061\243\105\163\044\372\225\051\314\022\227\004
\242\070\266\215\260\360\067\374\310\041\177\077\263\044\033\075
\213\156\314\115\260\026\015\226\035\203\037\106\300\233\275\103
\231\347\304\226\056\316\137\311
END
CKA_NSS_MOZILLA_CA_POLICY

```
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

#
 Trust for "Atos TrustedRoot Root CA RSA TLS 2021"
# Issuer: C=DE,O=Atos,CN=Atos TrustedRoot Root CA RSA TLS 2021
# Serial Number:53:d5:cf:e6:19:93:0b:fb:2b:05:12:d8:c2:2a:a2:a4
# Subject: C=DE,O=Atos,CN=Atos TrustedRoot Root CA RSA TLS 2021
# Not Valid Before: Thu Apr 22 09:21:10 2021
# Not Valid After : Wed Apr 17 09:21:09 2041
# Fingerprint (SHA-256):
81:A9:08:8E:A5:9F:B3:64:C5:48:A6:F8:55:59:09:9B:6F:04:05:EF:BF:18:E5:32:4E:C9:F4:57:BA:00:11:2F
# Fingerprint (SHA1): 18:52:3B:0D:06:37:E4:D6:3A:DF:23:E4:98:FB:5B:16:FB:86:74:48
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Atos TrustedRoot Root CA RSA TLS 2021"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\030\122\073\015\006\067\344\326\072\337\043\344\230\373\133\026
\373\206\164\110
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\324\323\106\270\232\300\234\166\135\236\072\303\271\231\061\322
END
CKA_ISSUER MULTILINE_OCTAL
\060\114\061\056\060\054\006\003\125\004\003\014\045\101\164\157
\163\040\124\162\165\163\164\145\144\122\157\157\164\040\122\157
\157\164\040\103\101\040\122\123\101\040\124\114\123\040\062\060
\062\061\061\015\060\013\006\003\125\004\012\014\004\101\164\157
\163\061\013\060\011\006\003\125\004\006\023\002\104\105
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\123\325\317\346\031\223\013\373\053\005\022\330\302\052
\242\244
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "TrustAsia Global Root CA G3"
#
# Issuer: CN=TrustAsia Global Root CA G3,O="TrustAsia Technologies, Inc.",C=CN
# Serial Number:64:f6:0e:65:77:61:6a:ab:3b:b4:ea:85:84:bb:b1:89:b8:71:93:0f
```

```
# Subject: CN=TrustAsia Global Root CA G3,O="TrustAsia Technologies, Inc.",C=CN
# Not Valid Before: Thu May 20 02:10:19 2021
# Not Valid After : Sat May 19 02:10:19
 2046
# Fingerprint (SHA-256):
E0:D3:22:6A:EB:11:63:C2:E4:8F:F9:BE:3B:50:B4:C6:43:1B:E7:BB:1E:AC:C5:C3:6B:5D:5E:C5:09:03:9A:08
# Fingerprint (SHA1): 63:CF:B6:C1:27:2B:56:E4:88:8E:1C:23:9A:B6:2E:81:47:24:C3:C7
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustAsia Global Root CA G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\045\060\043\006\003\125\004\012\014\034\124\162\165\163\164\101
\163\151\141\040\124\145\143\150\156\157\154\157\147\151\145\163
\054\040\111\156\143\056\061\044\060\042\006\003\125\004\003\014
\033\124\162\165\163\164\101\163\151\141\040\107\154\157\142\141
\154\040\122\157\157\164\040\103\101\040\107\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\045\060\043\006\003\125\004\012\014\034\124\162\165\163\164\101
\163\151\141\040\124\145\143\150\156\157\154\157\147\151\145\163
\054\040\111\156\143\056\061\044\060\042\006\003\125\004\003\014
\033\124\162\165\163\164\101\163\151\141\040\107\154\157\142\141
\154\040\122\157\157\164\040\103\101\040\107\063
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\024\144\366\016\145\167\141\152\253\073\264\352\205\204\273
\261\211\270\161\223\017
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\245\060\202\003\215\240\003\002\001\002\002\024\144
\366\016\145\167\141\152\253\073\264\352\205\204\273\261\211\270
\161\223\017\060\015\006\011\052\206\110\206\367\015\001\001\014
\005\000\060\132\061\013\060\011\006\003\125\004\006\023\002\103
\116\061\045\060\043\006\003\125\004\012\014\034\124\162\165\163
\164\101\163\151\141\040\124\145\143\150\156\157\154\157\147\151
\145\163\054\040\111\156\143\056\061\044\060\042\006\003\125\004
\003\014\033\124\162\165\163\164\101\163\151\141\040\107\154\157
\142\141\154\040\122\157\157\164\040\103\101\040\107\063\060\036
\027\015\062\061\060\065\062\060\060\062\061\060\061\071\132\027
\015\064\066\060\065\061\071\060\062\061\060\061\071\132\060\132
\061\013\060\011\006\003\125\004\006\023\002\103\116\061\045\060
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\043\006\003\125\004\012\014\034\124\162\165\163\164\101\163\151
\141\040\124\145\143\150\156\157\154\157\147\151\145\163\054\040
\111\156\143\056\061\044\060\042\006\003\125\004\003\014\033\124
\162\165\163\164\101\163\151\141\040\107\154\157\142\141\154\040
\122\157\157\164\040\103\101\040\107\063\060\202\002\042\060\015
\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\002
\017\000\060\202\002\012\002\202\002\001\000\300\061\202\141\222
\344\224\033\012\052\145\320\276\006\251\207\073\121\022\352\160
\101\256\342\373\164\352\012\215\271\263\114\334\217\267\023\122
\117\124\030\341\054\163\225\221\305\146\073\152\317\254\143\155
\207\123\360\367\361\071\267\240\103\143\260\304\003\135\127\251
\347\104\316\304\241\203\145\366\120\076\261\176\026\270\072\212
\002\320\226\037\000\315\005\041\357\006\155\335\041\234\031\103
\105\241\305\350\200\312\302\255\100\142\027\006\306\252\274\363
\326\346\374\120\176\146\102\037\074\213\246\171\171\206\100\065
\237\040\357\077\353\213\107\037\217\216\305\324\216\266\054\311
\104\004\343\324\103\165\077\325\077\257\034\314\176\106\137\254
\337\144\020\212\357\106\360\220\360\017\055\364\210\013\261\051
\252\257\205\252\111\130\250\277\143\240\070\221\346\263\346\167
\150\304\371\052\031\204\273\016\341\365\257\211\354\245\057\120
\040\164\036\022\101\163\036\044\331\312\316\054\241\131\065\300
\310\035\106\047\141\132\217\371\115\323\162\171\146\036\237\025
\220\041\055\375\355\213\126\160\003\112\111\076\177\151\061\022
\151\307\036\134\312\172\023\213\350\346\365\140\017\314\223\054
\204\177\361\374\152\374\233\107\235\333\255\210\075\363\166\165
\063\327\113\244\310\213\371\365\103\130\117\313\310\003\124\217
\245\205\170\004\032\363\163\362\327\207\035\101\237\347\330\027
\316\032\234\017\112\374\334\104\150\124\150\342\101\074\376\054
\204\206\067\074\315\077\057\242\333\347\367\124\003\137\131\323
\367\221\170\307\213\167\152\026\345\111\205\220\105\162\160\057
\221\135\370\076\145\100\013\031\231\311\046\040\132\150\301\065
\277\117\247\121\361\330\021\053\133\340\232\236\050\073\012\072
\012\037\301\201\345\056\360\246\271\151\245\210\224\346\153\023
\177\321\144\077\075\234\160\106\345\242\205\173\130\204\047\334
\304\200\076\147\232\232\307\232\061\016\060\354\346\027\100\225
\331\105\355\001\226\252\277\014\363\113\321\143\367\023\130\300
\270\363\372\147\335\233\175\155\112\377\062\114\265\045\073\377
\034\147\017\205\042\131\005\221\221\101\167\201\320\205\114\207
\020\161\377\236\103\033\256\225\165\055\201\002\003\001\000\001
\243\143\060\141\060\017\006\003\125\035\023\001\001\377\004\005
\060\003\001\001\377\060\037\006\003\125\035\043\004\030\060\026
\200\024\100\344\344\362\043\357\070\312\260\256\127\177\362\041
\060\026\064\333\274\222\060\035\006\003\125\035\016\004\026\004
\024\100\344\344\362\043\357\070\312\260\256\127\177\362\041\060
\026\064\333\274\222\060\016\006\003\125\035\017\001\001\377\004
\004\003\002\001\006\060\015\006\011\052\206\110\206\367\015\001
\001\014\005\000\003\202\002\001\000\046\073\121\341\115\070\363
\062\030\264\264\136\341\145\136\304\224\117\324\247\141\243\370

\300\317\063\001\002\351\303\252\065\017\361\224\023\167\167\065
\236\055\126\121\104\156\341\306\056\050\036\377\332\354\107\315
\227\104\027\367\340\114\302\341\174\174\062\172\146\310\132\266
\134\123\105\127\132\105\324\005\231\057\056\043\125\356\143\150
\337\323\033\170\247\022\224\006\000\165\015\162\204\351\056\274
\132\152\325\336\057\131\307\243\354\322\207\146\333\267\124\265
\044\253\364\103\170\333\113\004\304\157\335\346\076\146\076\051
\362\113\150\161\042\207\240\370\261\063\143\166\343\015\205\162
\104\042\125\077\034\174\351\374\270\025\350\122\372\252\076\243
\041\071\065\164\211\246\152\302\071\372\170\317\266\254\347\347
\326\126\377\043\222\056\120\013\251\265\007\063\364\070\137\244
\111\246\313\145\160\166\350\012\205\200\113\066\075\063\367\225
\124\165\045\332\254\304\163\202\145\351\122\365\134\375\070\225
\002\152\151\060\305\034\012\127\007\256\042\244\054\371\305\101
\267\270\354\237\117\110\000\371\001\004\125\314\254\371\062\061
\304\165\225\006\240\177\321\215\047\335\263\251\244\162\207\376
\131\213\232\172\164\026\335\026\245\142\051\353\072\226\334\213
\247\150\131\323\353\167\221\071\370\327\313\331\217\137\132\047
\001\175\135\150\031\142\330\310\315\364\267\162\107\276\133\227
\316\362\255\242\231\223\255\224\313\223\366\022\011\225\266\253
\327\073\320\077\021\313\060\026\056\171\200\344\147\201\055\135
\355\160\170\266\140\131\254\341\135\105\143\217\310\337\162\150
\133\352\035\270\001\361\176\373\347\212\263\343\124\240\070\011
\340\074\336\102\362\302\355\056\233\363\037\065\266\066\330\343
\200\241\213\315\231\144\017\302\252\253\261\312\365\157\236\103
\215\204\124\231\263\156\300\022\146\330\160\020\361\006\065\063
\103\250\234\056\272\024\061\316\020\177\034\206\343\217\322\325
\370\167\354\233\253\361\057\143\331\102\137\340\147\201\144\221
\361\227\057\374\156\046\366\063\370\323\265\370\304\142\253\061
\121\045\002\172\370\335\153\145\325\155\115\060\310\145\272\150
\024\145\254\047\013\164\212\362\207
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "TrustAsia Global Root CA G3"
Issuer: CN=TrustAsia Global Root CA G3,O="TrustAsia Technologies, Inc.",C=CN
Serial Number:64:f6:0e:65:77:61:6a:ab:3b:b4:ea:85:84:bb:b1:89:b8:71:93:0f
Subject: CN=TrustAsia Global Root CA G3,O="TrustAsia Technologies, Inc.",C=CN
Not Valid Before: Thu May 20 02:10:19 2021
Not Valid After : Sat May 19 02:10:19 2046
Fingerprint (SHA-256):
E0:D3:22:6A:EB:11:63:C2:E4:8F:F9:BE:3B:50:B4:C6:43:1B:E7:BB:1E:AC:C5:C3:6B:5D:5E:C5:09:03:9A:08
Fingerprint (SHA1): 63:CF:B6:C1:27:2B:56:E4:88:8E:1C:23:9A:B6:2E:81:47:24:C3:C7
CKA_CLASS

```
 CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustAsia Global Root CA G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\143\317\266\301\047\053\126\344\210\216\034\043\232\266\056\201
\107\044\303\307
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\060\102\033\267\273\201\165\065\344\026\117\123\322\224\336\004
END
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\045\060\043\006\003\125\004\012\014\034\124\162\165\163\164\101
\163\151\141\040\124\145\143\150\156\157\154\157\147\151\145\163
\054\040\111\156\143\056\061\044\060\042\006\003\125\004\003\014
\033\124\162\165\163\164\101\163\151\141\040\107\154\157\142\141
\154\040\122\157\157\164\040\103\101\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\144\366\016\145\167\141\152\253\073\264\352\205\204\273
\261\211\270\161\223\017
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION
 CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "TrustAsia Global Root CA G4"
#
# Issuer: CN=TrustAsia Global Root CA G4,O="TrustAsia Technologies, Inc.",C=CN
# Serial Number:4f:23:64:b8:8e:97:63:9e:c6:53:81:c1:76:4e:cb:2a:74:15:d6:d7
# Subject: CN=TrustAsia Global Root CA G4,O="TrustAsia Technologies, Inc.",C=CN
# Not Valid Before: Thu May 20 02:10:22 2021
# Not Valid After : Sat May 19 02:10:22 2046
# Fingerprint (SHA-256):
BE:4B:56:CB:50:56:C0:13:6A:52:6D:F4:44:50:8D:AA:36:A0:B5:4F:42:E4:AC:38:F7:2A:F4:70:E4:79:65:4C
# Fingerprint (SHA1): 57:73:A5:61:5D:80:B2:E6:AC:38:82:FC:68:07:31:AC:9F:B5:92:5A
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustAsia Global Root CA G4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
```

\060\132\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\045\060\043\006\003\125\004\012\014\034\124\162\165\163\164\101
\163\151\141\040\124\145\143\150\156\157\154\157\147\151\145\163
\054\040\111\156\143\056\061\044\060\042\006\003\125\004\003\014
\033\124\162\165\163\164\101\163\151\141\040\107\154\157\142\141
\154\040\122\157\157\164\040\103\101\040\107\064
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\045\060\043\006\003\125\004\012\014\034\124\162\165\163\164\101
\163\151\141\040\124\145\143\150\156\157\154\157\147\151\145\163
\054\040\111\156\143\056\061\044\060\042\006\003\125\004\003\014
\033\124\162\165\163\164\101\163\151\141\040\107\154\157\142\141
\154\040\122\157\157\164\040\103\101\040\107\064
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\117\043\144\270\216\227\143\236\306\123\201\301\166\116
\313\052\164\025\326\327
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\125\060\202\001\334\240\003\002\001\002\002\024\117
\043\144\270\216\227\143\236\306\123\201\301\166\116\313\052\164
\025\326\327\060\012\006\010\052\206\110\316\075\004\003\003\060
\132\061\013\060\011\006\003\125\004\006\023\002\103\116\061\045
\060\043\006\003\125\004\012\014\034\124\162\165\163\164\101\163
\151\141\040\124\145\143\150\156\157\154\157\147\151\145\163\054
\040\111\156\143\056\061\044\060\042\006\003\125\004\003\014\033
\124\162\165\163\164\101\163\151\141\040\107\154\157\142\141\154
\040\122\157\157\164\040\103\101\040\107\064\060\036\027\015\062
\061\060\065\062\060\060\062\061\060\062\062\132\027\015\064\066
\060\065\061\071\060\062\061\060\062\062\132\060\132\061\013\060
\011\006\003\125\004\006\023\002\103\116\061\045\060\043\006\003
\125\004\012\014\034\124\162\165\163\164\101\163\151\141\040\124
\145\143\150\156\157\154\157\147\151\145\163\054\040\111\156\143
\056\061\044\060\042\006\003\125\004\003\014\033\124\162\165\163
\164\101\163\151\141\040\107\154\157\142\141\154\040\122\157\157
\164\040\103\101\040\107\064\060\166\060\020\006\007\052\206\110
\316\075\002\001\006\005\053\201\004\000\042\003\142\000\004\361
\263\315\070\344\045\103\345\336\031\011\273\201\171\242\025\137
\025\143\001\336\302\253\335\263\246\033\147\113\200\203\257\231
\313\254\027\333\053\226\312\174\122\125\342\032\341\075\126\360
\057\026\010\372\025\274\233\273\107\346\077\356\250\341\114\214
\365\323\066\371\070\135\253\160\232\107\015\342\201\101\006\353
\111\371\260\051\335\063\354\120\245\177\171\051\270\040\230\243
\143\060\141\060\017\006\003\125\035\023\001\001\377\004\005\060
\003\001\001\377\060\037\006\003\125\035\043\004\030\060\026\200

\024\245\273\112\227\316\263\053\177\244\061\336\227\203\131\203
\246\157\161\313\336\060\035\006\003\125\035\016\004\026\004\024
\245\273\112\227\316\263\053\177\244\061\336\227\203\131\203\246
\157\161\313\336\060\016\006\003\125\035\017\001\001\377\004\004
\003\002\001\006\060\012\006\010\052\206\110\316\075\004\003\003
\003\147\000\060\144\002\060\136\362\353\006\314\111\061\237\100
\000\155\267\176\066\360\115\021\117\363\313\211\072\054\170\221
\120\243\133\300\312\165\046\362\277\220\135\013\202\214\140\050
\237\306\160\232\150\344\361\002\060\134\130\016\126\166\317\130
\303\327\020\214\272\216\256\343\274\144\165\107\305\125\220\343
\375\272\125\353\007\304\123\253\067\251\356\041\262\041\133\140
\217\075\062\361\325\043\224\326\130
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "TrustAsia Global Root CA G4"
Issuer: CN=TrustAsia Global Root CA G4,O="TrustAsia Technologies, Inc.",C=CN
Serial Number:4f:23:64:b8:8e:97:63:9e:c6:53:81:c1:76:4e:cb:2a:74:15:d6:d7
Subject: CN=TrustAsia Global Root CA G4,O="TrustAsia Technologies, Inc.",C=CN
Not Valid Before: Thu May 20 02:10:22 2021
Not Valid After : Sat May 19 02:10:22 2046
Fingerprint (SHA-256):
BE:4B:56:CB:50:56:C0:13:6A:52:6D:F4:44:50:8D:AA:36:A0:B5:4F:42:E4:AC:38:F7:2A:F4:70:E4:79:65:4C
#
Fingerprint (SHA1): 57:73:A5:61:5D:80:B2:E6:AC:38:82:FC:68:07:31:AC:9F:B5:92:5A
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustAsia Global Root CA G4"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\127\163\245\141\135\200\262\346\254\070\202\374\150\007\061\254
\237\265\222\132
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\124\335\262\327\137\330\076\355\174\340\013\056\314\355\353\353
END
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\045\060\043\006\003\125\004\012\014\034\124\162\165\163\164\101
\163\151\141\040\124\145\143\150\156\157\154\157\147\151\145\163
\054\040\111\156\143\056\061\044\060\042\006\003\125\004\003\014
\033\124\162\165\163\164\101\163\151\141\040\107\154\157\142\141
\154\040\122\157\157\164\040\103\101\040\107\064
END

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CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\117\043\144\270\216\227\143\236\306\123\201\301\166\116
\313\052\164\025\326\327
END
CKA_TRUST_SERVER_AUTH
 CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "CommScope Public Trust ECC Root-01"
#
# Issuer: CN=CommScope Public Trust ECC Root-01,O=CommScope,C=US
# Serial Number:43:70:82:77:cf:4d:5d:34:f1:ca:ae:32:2f:37:f7:f4:7f:75:a0:9e
# Subject: CN=CommScope Public Trust ECC Root-01,O=CommScope,C=US
# Not Valid Before: Wed Apr 28 17:35:43 2021
# Not Valid After : Sat Apr 28 17:35:42 2046
# Fingerprint (SHA-256):
11:43:7C:DA:7B:B4:5E:41:36:5F:45:B3:9A:38:98:6B:0D:E0:0D:EF:34:8E:0C:7B:B0:87:36:33:80:0B:C3:8B
# Fingerprint (SHA1): 07:86:C0:D8:DD:8E:C0:80:98:06:98:D0:58:7A:EF:DE:A6:CC:A2:5D
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CommScope Public Trust ECC Root-01"
CKA_CERTIFICATE_TYPE
 CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\014\011\103\157\155\155\123\143
\157\160\145\061\053\060\051\006\003\125\004\003\014\042\103\157
\155\155\123\143\157\160\145\040\120\165\142\154\151\143\040\124
\162\165\163\164\040\105\103\103\040\122\157\157\164\055\060\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\014\011\103\157\155\155\123\143
\157\160\145\061\053\060\051\006\003\125\004\003\014\042\103\157
\155\155\123\143\157\160\145\040\120\165\142\154\151\143\040\124
\162\165\163\164\040\105\103\103\040\122\157\157\164\055\060\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\103\160\202\167\317\115\135\064\361\312\256\062\057\067
\367\364\177\165\240\236
END
CKA_VALUE MULTILINE_OCTAL
```

\060\202\002\035\060\202\001\243\240\003\002\001\002\002\024\103
\160\202\167\317\115\135\064\361\312\256\062\057\067\367\364\177
\165\240\236\060\012\006\010\052\206\110\316\075\004\003\003\060
\116\061\013\060\011\006\003\125\004\006\023\002\125\123\061\022
\060\020\006\003\125\004\012\014\011\103\157\155\155\123\143\157
\160\145\061\053\060\051\006\003\125\004\003\014\042\103\157\155
\155\123\143\157\160\145\040\120\165\142\154\151\143\040\124\162
\165\163\164\040\105\103\103\040\122\157\157\164\055\060\061\060
\036\027\015\062\061\060\064\062\070\061\067\063\065\064\063\132
\027\015\064\066\060\064\062\070\061\067\063\065\064\062\132\060
\116\061\013\060\011\006\003\125\004\006\023\002\125\123\061\022
\060\020\006\003\125\004\012\014\011\103\157\155\155\123\143\157
\160\145\061\053\060\051\006\003\125\004\003\014\042\103\157\155
\155\123\143\157\160\145\040\120\165\142\154\151\143\040\124\162
\165\163\164\040\105\103\103\040\122\157\157\164\055\060\061\060
\166\060\020\006\007\052\206\110\316\075\002\001\006\005\053\201
\004\000\042\003\142\000\004\113\066\351\256\127\136\250\160\327
\320\217\164\142\167\303\136\172\252\345\266\242\361\170\375\002
\176\127\335\221\171\234\154\271\122\210\124\274\057\004\276\270
\315\366\020\321\051\354\265\320\240\303\360\211\160\031\273\121
\145\305\103\234\303\233\143\235\040\203\076\006\013\246\102\104
\205\021\247\112\072\055\351\326\150\057\110\116\123\053\007\077
\115\275\271\254\167\071\127\243\102\060\100\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006\003
\125\035\017\001\001\377\004\004\003\002\001\006\060\035\006\003
\125\035\016\004\026\004\024\216\007\142\300\120\335\306\031\006
\000\106\164\004\367\363\256\175\165\115\060\060\012\006\010\052
\206\110\316\075\004\003\003\003\150\000\060\145\002\061\000\234
\063\337\101\343\043\250\102\066\046\227\065\134\173\353\333\113
\370\252\213\163\125\025\134\254\170\051\017\272\041\330\304\240
\330\321\003\335\155\321\071\075\304\223\140\322\343\162\262\002
\060\174\305\176\210\323\120\365\036\045\350\372\116\165\346\130
\226\244\065\137\033\145\352\141\232\160\043\265\015\243\233\222
\122\157\151\240\214\215\112\320\356\213\016\313\107\216\320\215
\021
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "CommScope Public Trust ECC Root-01"
Issuer: CN=CommScope Public Trust ECC Root-01,O=CommScope,C=US
Serial Number:43:70:82:77:cf:4d:5d:34:f1:ca:ae:32:2f:37:f7:f4:7f:75:a0:9e
Subject: CN=CommScope Public Trust ECC Root-01,O=CommScope,C=US
Not Valid Before: Wed Apr 28 17:35:43 2021
Not Valid After : Sat Apr 28 17:35:42 2046
Fingerprint (SHA-256):

```
11:43:7C:DA:7B:B4:5E:41:36:5F:45:B3:9A:38:98:6B:0D:E0:0D:EF:34:8E:0C:7B:B0:87:36:33:80:0B:C3:8B
# Fingerprint (SHA1): 07:86:C0:D8:DD:8E:C0:80:98:06:98:D0:58:7A:EF:DE:A6:CC:A2:5D
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CommScope
 Public Trust ECC Root-01"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\007\206\300\330\335\216\300\200\230\006\230\320\130\172\357\336
\246\314\242\135
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\072\100\247\374\003\214\234\070\171\057\072\242\154\266\012\026
END
CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\014\011\103\157\155\155\123\143
\157\160\145\061\053\060\051\006\003\125\004\003\014\042\103\157
\155\155\123\143\157\160\145\040\120\165\142\154\151\143\040\124
\162\165\163\164\040\105\103\103\040\122\157\157\164\055\060\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\103\160\202\167\317\115\135\064\361\312\256\062\057\067
\367\364\177\165\240\236
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "CommScope Public Trust
 ECC Root-02"
#
# Issuer: CN=CommScope Public Trust ECC Root-02,O=CommScope,C=US
# Serial Number:28:fd:99:60:41:47:a6:01:3a:ca:14:7b:1f:ef:f9:68:08:83:5d:7d
# Subject: CN=CommScope Public Trust ECC Root-02,O=CommScope,C=US
# Not Valid Before: Wed Apr 28 17:44:54 2021
# Not Valid After : Sat Apr 28 17:44:53 2046
# Fingerprint (SHA-256):
2F:FB:7F:81:3B:BB:B3:C8:9A:B4:E8:16:2D:0F:16:D7:15:09:A8:30:CC:9D:73:C2:62:E5:14:08:75:D1:AD:4A
# Fingerprint (SHA1): 3C:3F:EF:57:0F:FE:65:93:86:9E:A0:FE:B0:F6:ED:8E:D1:13:C7:E5
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CommScope Public Trust ECC Root-02"
```

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\014\011\103\157\155\155\123\143
\157\160\145\061\053\060\051\006\003\125\004\003\014\042\103\157
\155\155\123\143\157\160\145\040\120\165\142\154\151\143\040\124
\162\165\163\164\040\105\103\103\040\122\157\157\164\055\060\062
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\014\011\103\157\155\155\123\143
\157\160\145\061\053\060\051\006\003\125\004\003\014\042\103\157
\155\155\123\143\157\160\145\040\120\165\142\154\151\143\040\124
\162\165\163\164\040\105\103\103\040\122\157\157\164\055\060\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\050\375\231\140\101\107\246\001\072\312\024\173\037\357
\371\150\010\203\135\175
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\034\060\202\001\243\240\003\002\001\002\002\024\050
\375\231\140\101\107\246\001\072\312\024\173\037\357\371\150\010
\203\135\175\060\012\006\010\052\206\110\316\075\004\003\003\060
\116\061\013\060\011\006\003\125\004\006\023\002\125\123\061\022
\060\020\006\003\125\004\012\014\011\103\157\155\155\123\143\157
\160\145\061\053\060\051\006\003\125\004\003\014\042\103\157\155
\155\123\143\157\160\145\040\120\165\142\154\151\143\040\124\162
\165\163\164\040\105\103\103\040\122\157\157\164\055\060\062\060
\036\027\015\062\061\060\064\062\070\061\067\064\064\065\064\132
\027\015\064\066\060\064\062\070\061\067\064\064\065\063\132\060
\116\061\013\060\011\006\003\125\004\006\023\002\125\123\061\022
\060\020\006\003\125\004\012\014\011\103\157\155\155\123\143\157
\160\145\061\053\060\051\006\003\125\004\003\014\042\103\157\155
\155\123\143\157\160\145\040\120\165\142\154\151\143\040\124\162
\165\163\164\040\105\103\103\040\122\157\157\164\055\060\062\060
\166\060\020\006\007\052\206\110\316\075\002\001\006\005\053\201
\004\000\042\003\142\000\004\170\060\201\350\143\036\345\353\161
\121\017\367\007\007\312\071\231\174\116\325\017\314\060\060\013
\217\146\223\076\317\275\305\206\275\371\261\267\264\076\264\007
\310\363\226\061\363\355\244\117\370\243\116\215\051\025\130\270
\325\157\177\356\154\042\265\260\257\110\105\012\275\250\111\224
\277\204\103\260\333\204\112\003\043\031\147\152\157\301\156\274
\006\071\067\321\210\042\367\243\102\060\100\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006\003
\125\035\017\001\001\377\004\004\003\002\001\006\060\035\006\003
\125\035\016\004\026\004\024\346\030\165\377\357\140\336\204\244

\365\106\307\336\112\125\343\062\066\171\365\060\012\006\010\052
\206\110\316\075\004\003\003\003\147\000\060\144\002\060\046\163
\111\172\266\253\346\111\364\175\122\077\324\101\004\256\200\103
\203\145\165\271\205\200\070\073\326\157\344\223\206\253\217\347
\211\310\177\233\176\153\012\022\125\141\252\021\340\171\002\060
\167\350\061\161\254\074\161\003\326\204\046\036\024\270\363\073
\073\336\355\131\374\153\114\060\177\131\316\105\351\163\140\025
\232\114\360\346\136\045\042\025\155\302\207\131\320\262\216\152
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for
 "CommScope Public Trust ECC Root-02"
Issuer: CN=CommScope Public Trust ECC Root-02,O=CommScope,C=US
Serial Number:28:fd:99:60:41:47:a6:01:3a:ca:14:7b:1f:ef:f9:68:08:83:5d:7d
Subject: CN=CommScope Public Trust ECC Root-02,O=CommScope,C=US
Not Valid Before: Wed Apr 28 17:44:54 2021
Not Valid After : Sat Apr 28 17:44:53 2046
Fingerprint (SHA-256):
2F:FB:7F:81:3B:BB:B3:C8:9A:B4:E8:16:2D:0F:16:D7:15:09:A8:30:CC:9D:73:C2:62:E5:14:08:75:D1:AD:4A
Fingerprint (SHA1): 3C:3F:EF:57:0F:FE:65:93:86:9E:A0:FE:B0:F6:ED:8E:D1:13:C7:E5
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CommScope Public Trust ECC Root-02"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\074\077\357\127\017\376\145\223\206\236\240\376\260\366\355\216
\321\023\307\345
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\131\260\104\325\145\115\270\134\125\031\222\002\266\321\224\262
END
CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\014\011\103\157\155\155\123\143
\157\160\145\061\053\060\051\006\003\125\004\003\014\042\103\157
\155\155\123\143\157\160\145\040\120\165\142\154\151\143\040\124
\162\165\163\164\040\105\103\103\040\122\157\157\164\055\060\062
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\024\050\375\231\140\101\107\246\001\072\312\024\173\037\357
\371\150\010\203\135\175
END

```
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "CommScope Public Trust RSA Root-01"
#
# Issuer: CN=CommScope Public Trust RSA Root-01,O=CommScope,C=US
# Serial Number:3e:03:49:81:75:16:74:31:8e:4c:ab:d5:c5:90:29:96:c5:39:10:dd
# Subject: CN=CommScope Public Trust RSA Root-01,O=CommScope,C=US
# Not Valid Before: Wed Apr 28 16:45:54 2021
# Not Valid After : Sat Apr 28 16:45:53 2046
#
 Fingerprint (SHA-256):
02:BD:F9:6E:2A:45:DD:9B:F1:8F:C7:E1:DB:DF:21:A0:37:9B:A3:C9:C2:61:03:44:CF:D8:D6:06:FE:C1:ED:81
# Fingerprint (SHA1): 6D:0A:5F:F7:B4:23:06:B4:85:B3:B7:97:64:FC:AC:75:F5:33:F2:93
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CommScope Public Trust RSA Root-01"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\014\011\103\157\155\155\123\143
\157\160\145\061\053\060\051\006\003\125\004\003\014\042\103\157
\155\155\123\143\157\160\145\040\120\165\142\154\151\143\040\124
\162\165\163\164\040\122\123\101\040\122\157\157\164\055\060\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\014\011\103\157\155\155\123\143
\157\160\145\061\053\060\051\006\003\125\004\003\014\042\103\157
\155\155\123\143\157\160\145\040\120\165\142\154\151\143\040\124
\162\165\163\164\040\122\123\101\040\122\157\157\164\055\060\061
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\024\076\003\111\201\165\026\164\061\216\114\253\325\305\220
\051\226\305\071\020\335
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\154\060\202\003\124\240\003\002\001\002\002\024\076
\003\111\201\165\026\164\061\216\114\253\325\305\220\051\226\305
\071\020\335\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\060\116\061\013\060\011\006\003\125\004\006\023\002\125
```

\123\061\022\060\020\006\003\125\004\012\014\011\103\157\155\155
\123\143\157\160\145\061\053\060\051\006\003\125\004\003\014\042
\103\157\155\155\123\143\157\160\145\040\120\165\142\154\151\143
\040\124\162\165\163\164\040\122\123\101\040\122\157\157\164\055
\060\061\060\036\027\015\062\061\060\064\062\070\061\066\064\065
\065\064\132\027\015\064\066\060\064\062\070\061\066\064\065\065
\063\132\060\116\061\013\060\011\006\003\125\004\006\023\002\125
\123\061\022\060\020\006\003\125\004\012\014\011\103\157\155\155
\123\143\157\160\145\061\053\060\051\006\003\125\004\003\014\042
\103\157\155\155\123\143\157\160\145\040\120\165\142\154\151\143
\040\124\162\165\163\164\040\122\123\101\040\122\157\157\164\055
\060\061\060\202\002\042\060\015\006\011\052\206\110\206\367\015
\001\001\001\005\000\003\202\002\017\000\060\202\002\012\002\202
\002\001\000\260\110\145\243\015\035\102\343\221\155\235\204\244
\141\226\022\302\355\303\332\043\064\031\166\366\352\375\125\132
\366\125\001\123\017\362\314\214\227\117\271\120\313\263\001\104
\126\226\375\233\050\354\173\164\013\347\102\153\125\316\311\141
\262\350\255\100\074\272\271\101\012\005\117\033\046\205\217\103
\265\100\265\205\321\324\161\334\203\101\363\366\105\307\200\242
\204\120\227\106\316\240\014\304\140\126\004\035\007\133\106\245
\016\262\113\244\016\245\174\356\370\324\142\003\271\223\152\212
\024\270\160\370\056\202\106\070\043\016\164\307\153\101\267\320
\051\243\235\200\260\176\167\223\143\102\373\064\203\073\163\243
\132\041\066\353\107\372\030\027\331\272\146\302\223\244\217\374
\135\244\255\374\120\152\225\254\274\044\063\321\275\210\177\206
\365\365\262\163\052\217\174\257\010\362\032\230\077\251\201\145
\077\301\214\211\305\226\060\232\012\317\364\324\310\064\355\235
\057\274\215\070\206\123\356\227\237\251\262\143\224\027\215\017
\334\146\052\174\122\121\165\313\231\216\350\075\134\277\236\073
\050\215\203\002\017\251\237\162\342\054\053\263\334\146\227\000
\100\320\244\124\216\233\135\173\105\066\046\326\162\103\353\317
\300\352\015\334\316\022\346\175\070\237\005\047\250\227\076\351
\121\306\154\005\050\301\002\017\351\030\155\354\275\234\006\324
\247\111\364\124\005\153\154\060\361\353\003\325\352\075\152\166
\302\313\032\050\111\115\177\144\340\372\053\332\163\203\201\377
\221\003\275\224\273\344\270\216\234\062\143\315\237\273\150\201
\261\204\133\257\066\277\167\356\035\177\367\111\233\122\354\322
\167\132\175\221\235\115\302\071\055\344\272\202\370\157\362\116
\036\017\116\346\077\131\245\043\334\075\207\250\050\130\050\321
\361\033\066\333\117\304\377\341\214\133\162\214\307\046\003\047
\243\071\012\001\252\300\262\061\140\203\042\241\117\022\011\001
\021\257\064\324\317\327\256\142\323\005\007\264\061\165\340\015
\155\127\117\151\207\371\127\251\272\025\366\310\122\155\241\313
\234\037\345\374\170\250\065\232\237\101\024\316\245\264\316\224
\010\034\011\255\126\345\332\266\111\232\112\352\143\030\123\234
\054\056\303\002\003\001\000\001\243\102\060\100\060\017\006\003
\125\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006
\003\125\035\017\001\001\377\004\004\003\002\001\006\060\035\006

\003\125\035\016\004\026\004\024\067\135\246\232\164\062\302\302
\371\307\246\025\020\131\270\344\375\345\270\155\060\015\006\011
\052\206\110\206\367\015\001\001\013\005\000\003\202\002\001\000
\257\247\317\336\377\340\275\102\215\115\345\042\226\337\150\352
\175\115\052\175\320\255\075\026\134\103\347\175\300\206\350\172
\065\143\361\314\201\310\306\013\350\056\122\065\244\246\111\220
\143\121\254\064\254\005\073\127\000\351\323\142\323\331\051\325
\124\276\034\020\221\234\262\155\376\131\375\171\367\352\126\320
\236\150\124\102\217\046\122\342\114\337\057\227\246\057\322\007
\230\250\363\140\135\113\232\130\127\210\357\202\345\372\257\154
\201\113\222\217\100\232\223\106\131\313\137\170\026\261\147\076
\102\013\337\050\331\260\255\230\040\276\103\174\321\136\032\011
\027\044\215\173\135\225\351\253\301\140\253\133\030\144\200\373
\255\340\006\175\035\312\131\270\363\170\051\147\306\126\035\257
\266\265\164\052\166\241\077\373\165\060\237\224\136\073\245\140
\363\313\134\014\342\016\311\140\370\311\037\026\212\046\335\347
\047\177\353\045\246\212\275\270\055\066\020\232\261\130\115\232
\150\117\140\124\345\366\106\023\216\210\254\274\041\102\022\255
\306\112\211\175\233\301\330\055\351\226\003\364\242\164\014\274
\000\035\277\326\067\045\147\264\162\213\257\205\275\352\052\003
\217\314\373\074\104\044\202\342\001\245\013\131\266\064\215\062
\013\022\015\353\047\302\375\101\327\100\074\162\106\051\300\214
\352\272\017\361\006\223\056\367\234\250\364\140\076\243\361\070
\136\216\023\301\263\072\227\207\077\222\312\170\251\034\257\320
\260\033\046\036\276\160\354\172\365\063\230\352\134\377\053\013
\004\116\103\335\143\176\016\247\116\170\003\225\076\324\055\060
\225\021\020\050\056\277\240\002\076\377\136\131\323\005\016\225
\137\123\105\357\153\207\325\110\315\026\246\226\203\341\337\263
\006\363\301\024\333\247\354\034\213\135\220\220\015\162\121\347
\141\371\024\312\257\203\217\277\257\261\012\131\135\334\134\327
\344\226\255\133\140\035\332\256\227\262\071\331\006\365\166\000
\023\370\150\114\041\260\065\304\334\125\262\311\301\101\132\034
\211\300\214\157\164\240\153\063\115\265\001\050\375\255\255\211
\027\073\246\232\204\274\353\214\352\304\161\044\250\272\051\371
\010\262\047\126\065\062\137\352\071\373\061\232\325\031\314\360
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "CommScope Public Trust RSA Root-01"
Issuer: CN=CommScope Public Trust RSA Root-01,O=CommScope,C=US
Serial Number:3e:03:49:81:75:16:74:31:8e:4c:ab:d5:c5:90:29:96:c5:39:10:dd
Subject: CN=CommScope Public Trust RSA Root-01,O=CommScope,C=US
Not Valid Before: Wed Apr 28 16:45:54 2021
Not Valid After : Sat Apr 28 16:45:53 2046
Fingerprint (SHA-256):

```
02:BD:F9:6E:2A:45:DD:9B:F1:8F:C7:E1:DB:DF:21:A0:37:9B:A3:C9:C2:61:03:44:CF:D8:D6:06:FE:C1:ED:81
# Fingerprint (SHA1): 6D:0A:5F:F7:B4:23:06:B4:85:B3:B7:97:64:FC:AC:75:F5:33:F2:93
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CommScope Public Trust RSA Root-01"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\155\012\137\367\264\043\006\264\205\263\267\227\144\374\254\165
\365\063\362\223
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\016\264\025\274\207\143\135\135\002\163\324\046\070\150\163\330
END
CKA_ISSUER
 MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\014\011\103\157\155\155\123\143
\157\160\145\061\053\060\051\006\003\125\004\003\014\042\103\157
\155\155\123\143\157\160\145\040\120\165\142\154\151\143\040\124
\162\165\163\164\040\122\123\101\040\122\157\157\164\055\060\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\076\003\111\201\165\026\164\061\216\114\253\325\305\220
\051\226\305\071\020\335
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "CommScope Public Trust RSA Root-02"
#
# Issuer: CN=CommScope Public Trust RSA Root-02,O=CommScope,C=US
# Serial Number:54:16:bf:3b:7e:39:95:71:8d:d1:aa:00:a5:86:0d:2b:8f:7a:05:4e
# Subject: CN=CommScope
 Public Trust RSA Root-02,O=CommScope,C=US
# Not Valid Before: Wed Apr 28 17:16:43 2021
# Not Valid After : Sat Apr 28 17:16:42 2046
# Fingerprint (SHA-256):
FF:E9:43:D7:93:42:4B:4F:7C:44:0C:1C:3D:64:8D:53:63:F3:4B:82:DC:87:AA:7A:9F:11:8F:C5:DE:E1:01:F1
# Fingerprint (SHA1): EA:B0:E2:52:1B:89:93:4C:11:68:F2:D8:9A:AC:22:4C:A3:8A:57:AE
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CommScope Public Trust RSA Root-02"
```

```
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\014\011\103\157\155\155\123\143
\157\160\145\061\053\060\051\006\003\125\004\003\014\042\103\157
\155\155\123\143\157\160\145\040\120\165\142\154\151\143\040\124
\162\165\163\164\040\122\123\101\040\122\157\157\164\055\060\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\014\011\103\157\155\155\123\143
\157\160\145\061\053\060\051\006\003\125\004\003\014\042\103\157
\155\155\123\143\157\160\145\040\120\165\142\154\151\143\040\124
\162\165\163\164\040\122\123\101\040\122\157\157\164\055\060\062
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\024\124\026\277\073\176\071\225\161\215\321\252\000\245\206
\015\053\217\172\005\116
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\154\060\202\003\124\240\003\002\001\002\002\024\124
\026\277\073\176\071\225\161\215\321\252\000\245\206\015\053\217
\172\005\116\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\060\116\061\013\060\011\006\003\125\004\006\023\002\125
\123\061\022\060\020\006\003\125\004\012\014\011\103\157\155\155
\123\143\157\160\145\061\053\060\051\006\003\125\004\003\014\042
\103\157\155\155\123\143\157\160\145\040\120\165\142\154\151\143
\040\124\162\165\163\164\040\122\123\101\040\122\157\157\164\055
\060\062\060\036\027\015\062\061\060\064\062\070\061\067\061\066
\064\063\132\027\015\064\066\060\064\062\070\061\067\061\066\064
\062\132\060\116\061\013\060\011\006\003\125\004\006\023\002\125
\123\061\022\060\020\006\003\125\004\012\014\011\103\157\155\155
\123\143\157\160\145\061\053\060\051\006\003\125\004\003\014\042
\103\157\155\155\123\143\157\160\145\040\120\165\142\154\151\143
\040\124\162\165\163\164\040\122\123\101\040\122\157\157\164\055
\060\062\060\202\002\042\060\015\006\011\052\206\110\206\367\015
\001\001\001\005\000\003\202\002\017\000\060\202\002\012\002\202
\002\001\000\341\372\016\373\150\000\022\310\115\325\254\042\304
\065\001\073\305\124\345\131\166\143\245\177\353\301\304\152\230
\275\062\215\027\200\353\135\272\321\142\075\045\043\031\065\024
\351\177\211\247\033\142\074\326\120\347\064\225\003\062\261\264
\223\042\075\247\342\261\355\346\173\116\056\207\233\015\063\165
\012\336\252\065\347\176\345\066\230\242\256\045\236\225\263\062
\226\244\053\130\036\357\077\376\142\064\110\121\321\264\215\102
\255\140\332\111\152\225\160\335\322\000\342\314\127\143\002\173
\226\335\111\227\133\222\116\225\323\371\313\051\037\030\112\370
```

\001\052\322\143\011\156\044\351\211\322\345\307\042\114\334\163
\206\107\000\252\015\210\216\256\205\175\112\351\273\063\117\016
\122\160\235\225\343\174\155\226\133\055\075\137\241\203\106\135
\266\343\045\270\174\247\031\200\034\352\145\103\334\221\171\066
\054\164\174\362\147\006\311\211\311\333\277\332\150\277\043\355
\334\153\255\050\203\171\057\354\070\245\015\067\001\147\047\232
\351\063\331\063\137\067\241\305\360\253\075\372\170\260\347\054
\237\366\076\237\140\340\357\110\351\220\105\036\005\121\170\032
\054\022\054\134\050\254\015\242\043\236\064\217\005\346\242\063
\316\021\167\023\324\016\244\036\102\037\206\315\160\376\331\056
\025\075\035\273\270\362\123\127\333\314\306\164\051\234\030\263
\066\165\070\056\017\124\241\370\222\037\211\226\117\273\324\356
\235\351\073\066\102\265\012\073\052\324\144\171\066\020\341\371
\221\003\053\173\040\124\315\015\031\032\310\101\062\064\321\260
\231\341\220\036\001\100\066\265\267\372\251\345\167\165\244\042
\201\135\260\213\344\047\022\017\124\210\306\333\205\164\346\267
\300\327\246\051\372\333\336\363\223\227\047\004\125\057\012\157
\067\305\075\023\257\012\000\251\054\213\034\201\050\327\357\206
\061\251\256\362\156\270\312\152\054\124\107\330\052\210\056\257
\301\007\020\170\254\021\242\057\102\360\067\305\362\270\126\335
\016\142\055\316\055\126\176\125\362\247\104\366\053\062\364\043
\250\107\350\324\052\001\170\317\152\303\067\250\236\145\322\054
\345\372\272\063\301\006\104\366\346\317\245\015\247\146\010\064
\212\054\363\002\003\001\000\001\243\102\060\100\060\017\006\003
\125\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006
\003\125\035\017\001\001\377\004\004\003\002\001\006\060\035\006
\003\125\035\016\004\026\004\024\107\320\347\261\042\377\235\054
\365\331\127\140\263\261\261\160\225\357\141\172\060\015\006\011
\052\206\110\206\367\015\001\001\013\005\000\003\202\002\001\000
\206\151\261\115\057\351\237\117\042\223\150\216\344\041\231\243
\316\105\123\033\163\104\123\000\201\141\315\061\343\010\272\201
\050\050\172\222\271\266\250\310\103\236\307\023\046\115\302\330
\345\125\234\222\135\120\330\302\053\333\376\346\250\227\317\122
\072\044\303\145\144\134\107\061\243\145\065\023\303\223\271\367
\371\121\227\273\244\360\142\207\305\326\006\323\227\203\040\251
\176\273\266\041\302\245\015\204\000\341\362\047\020\203\272\335
\003\201\325\335\150\303\146\020\310\321\166\264\263\157\051\236
\000\371\302\051\365\261\223\031\122\151\032\054\114\240\213\340
\025\232\061\057\323\210\225\131\156\345\304\263\120\310\024\010
\112\233\213\023\203\261\244\162\262\073\166\063\101\334\334\252
\246\007\157\035\044\022\237\310\166\275\057\331\216\364\054\356
\267\322\070\020\044\066\121\057\343\134\135\201\041\247\332\273
\116\377\346\007\250\376\271\015\047\154\273\160\132\125\172\023
\351\361\052\111\151\307\137\207\127\114\103\171\155\072\145\351
\060\134\101\356\353\167\245\163\022\210\350\277\175\256\345\304
\250\037\015\216\034\155\120\002\117\046\030\103\336\217\125\205
\261\013\067\005\140\311\125\071\022\004\241\052\317\161\026\237
\066\121\111\277\160\073\236\147\234\373\173\171\311\071\034\170

\254\167\221\124\232\270\165\012\201\122\227\343\146\141\153\355
\076\070\036\226\141\125\341\221\124\214\355\214\044\037\201\311
\020\232\163\231\053\026\116\162\000\077\124\033\370\215\272\213
\347\024\326\266\105\117\140\354\226\256\303\057\002\116\135\235
\226\111\162\000\262\253\165\134\017\150\133\035\145\302\137\063
\017\036\017\360\073\206\365\260\116\273\234\367\352\045\005\334
\255\242\233\113\027\001\276\102\337\065\041\035\255\253\256\364
\277\256\037\033\323\342\073\374\263\162\163\034\233\050\220\211
\023\075\035\301\000\107\011\226\232\070\033\335\261\317\015\302
\264\104\363\226\225\316\062\072\217\064\234\340\027\307\136\316
\256\015\333\207\070\345\077\133\375\233\031\341\061\101\172\160
\252\043\153\001\341\105\114\315\224\316\073\236\055\347\210\002
\042\364\156\350\310\354\326\074\363\271\262\327\167\172\254\173
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "CommScope Public Trust RSA Root-02"
Issuer: CN=CommScope Public Trust RSA Root-02,O=CommScope,C=US
Serial Number:54:16:bf:3b:7e:39:95:71:8d:d1:aa:00:a5:86:0d:2b:8f:7a:05:4e
Subject: CN=CommScope Public Trust RSA Root-02,O=CommScope,C=US
Not Valid Before: Wed Apr 28 17:16:43 2021
Not Valid After : Sat Apr 28 17:16:42 2046
Fingerprint (SHA-256):
FF:E9:43:D7:93:42:4B:4F:7C:44:0C:1C:3D:64:8D:53:63:F3:4B:82:DC:87:AA:7A:9F:11:8F:C5:DE:E1:01:F1
Fingerprint (SHA1): EA:B0:E2:52:1B:89:93:4C:11:68:F2:D8:9A:AC:22:4C:A3:8A:57:AE
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CommScope Public Trust RSA Root-02"
CKA_CERT_SHA1_HASH
 MULTILINE_OCTAL
\352\260\342\122\033\211\223\114\021\150\362\330\232\254\042\114
\243\212\127\256
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\341\051\371\142\173\166\342\226\155\363\324\327\017\256\037\252
END
CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\014\011\103\157\155\155\123\143
\157\160\145\061\053\060\051\006\003\125\004\003\014\042\103\157
\155\155\123\143\157\160\145\040\120\165\142\154\151\143\040\124
\162\165\163\164\040\122\123\101\040\122\157\157\164\055\060\062
END

```
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\124\026\277\073\176\071\225\161\215\321\252\000\245\206
\015\053\217\172\005\116
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "D-Trust SBR Root CA 1 2022"
#
# Issuer: CN=D-Trust SBR Root CA 1 2022,O=D-Trust
 GmbH,C=DE
# Serial Number:52:cf:e4:8c:6d:a0:4a:f7:3f:82:97:0c:80:09:8c:95
# Subject: CN=D-Trust SBR Root CA 1 2022,O=D-Trust GmbH,C=DE
# Not Valid Before: Wed Jul 06 11:30:00 2022
# Not Valid After : Mon Jul 06 11:29:59 2037
# Fingerprint (SHA-256):
D9:2C:17:1F:5C:F8:90:BA:42:80:19:29:29:27:FE:22:F3:20:7F:D2:B5:44:49:CB:6F:67:5A:F4:92:21:46:E2
# Fingerprint (SHA1): 0F:52:3A:6B:4E:7D:1D:18:05:A5:48:F9:4D:CD:E4:C3:1E:1B:E9:E6
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-Trust SBR Root CA 1 2022"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\111\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\023\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\043\060\041\006\003\125\004\003\023
\032\104\055\124\162\165\163\164\040\123\102\122\040\122\157\157
\164\040\103\101\040\061\040\062\060\062\062
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\111\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\023\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\043\060\041\006\003\125\004\003\023
\032\104\055\124\162\165\163\164\040\123\102\122\040\122\157\157
\164\040\103\101\040\061\040\062\060\062\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\122\317\344\214\155\240\112\367\077\202\227\014\200\011
\214\225
END
CKA_VALUE MULTILINE_OCTAL
```

\060\202\002\136\060\202\001\343\240\003\002\001\002\002\020\122
\317\344\214\155\240\112\367\077\202\227\014\200\011\214\225\060
\012\006\010\052\206\110\316\075\004\003\003\060\111\061\013\060
\011\006\003\125\004\006\023\002\104\105\061\025\060\023\006\003
\125\004\012\023\014\104\055\124\162\165\163\164\040\107\155\142
\110\061\043\060\041\006\003\125\004\003\023\032\104\055\124\162
\165\163\164\040\123\102\122\040\122\157\157\164\040\103\101\040
\061\040\062\060\062\062\060\036\027\015\062\062\060\067\060\066
\061\061\063\060\060\060\132\027\015\063\067\060\067\060\066\061
\061\062\071\065\071\132\060\111\061\013\060\011\006\003\125\004
\006\023\002\104\105\061\025\060\023\006\003\125\004\012\023\014
\104\055\124\162\165\163\164\040\107\155\142\110\061\043\060\041
\006\003\125\004\003\023\032\104\055\124\162\165\163\164\040\123
\102\122\040\122\157\157\164\040\103\101\040\061\040\062\060\062
\062\060\166\060\020\006\007\052\206\110\316\075\002\001\006\005
\053\201\004\000\042\003\142\000\004\131\223\071\366\214\111\146
\050\327\141\014\310\253\177\014\243\055\337\242\244\174\222\053
\150\325\056\176\036\100\313\264\150\111\177\022\241\253\177\127
\237\031\056\143\056\133\376\146\161\014\063\017\271\336\153\304
\210\303\261\357\354\071\100\343\226\253\333\345\173\256\037\334
\371\257\106\232\152\106\006\057\307\067\144\213\027\142\376\226
\303\242\356\204\340\260\227\071\274\243\201\217\060\201\214\060
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377
\060\035\006\003\125\035\016\004\026\004\024\361\051\243\036\001
\022\035\075\165\126\115\307\120\174\305\031\252\017\030\267\060
\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060
\112\006\003\125\035\037\004\103\060\101\060\077\240\075\240\073
\206\071\150\164\164\160\072\057\057\143\162\154\056\144\055\164
\162\165\163\164\056\156\145\164\057\143\162\154\057\144\055\164
\162\165\163\164\137\163\142\162\137\162\157\157\164\137\143\141
\137\061\137\062\060\062\062\056\143\162\154\060\012\006\010\052
\206\110\316\075\004\003\003\003\151\000\060\146\002\061\000\227
\371\336\256\113\217\230\265\036\100\177\062\175\115\124\103\332
\211\315\302\252\222\074\321\202\036\163\317\372\114\222\040\373
\143\047\305\365\163\075\011\075\367\247\141\206\214\363\152\002
\061\000\347\057\174\270\365\045\214\073\071\037\066\253\215\365
\206\242\056\341\172\144\332\147\071\002\376\376\063\077\331\163
\266\130\133\072\374\262\244\331\140\170\167\314\171\247\246\256
\125\275
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "D-Trust SBR Root CA 1 2022"
Issuer: CN=D-Trust SBR Root CA 1 2022,O=D-Trust GmbH,C=DE
Serial Number:52:cf:e4:8c:6d:a0:4a:f7:3f:82:97:0c:80:09:8c:95

```
# Subject: CN=D-Trust SBR Root CA 1 2022,O=D-Trust GmbH,C=DE
# Not Valid Before: Wed Jul 06 11:30:00 2022
# Not Valid After : Mon Jul 06 11:29:59 2037
# Fingerprint (SHA-256):
D9:2C:17:1F:5C:F8:90:BA:42:80:19:29:29:27:FE:22:F3:20:7F:D2:B5:44:49:CB:6F:67:5A:F4:92:21:46:E2
# Fingerprint (SHA1): 0F:52:3A:6B:4E:7D:1D:18:05:A5:48:F9:4D:CD:E4:C3:1E:1B:E9:E6
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-Trust SBR Root CA 1 2022"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\017\122\072\153\116\175\035\030\005\245\110\371\115\315\344\303
\036\033\351\346
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\023\074\033\202\352\156\352\355\144\142\351\132\171\005\151\004
END
CKA_ISSUER
 MULTILINE_OCTAL
\060\111\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\023\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\043\060\041\006\003\125\004\003\023
\032\104\055\124\162\165\163\164\040\123\102\122\040\122\157\157
\164\040\103\101\040\061\040\062\060\062\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\122\317\344\214\155\240\112\367\077\202\227\014\200\011
\214\225
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "D-Trust SBR Root CA 2 2022"
#
# Issuer: CN=D-Trust SBR Root CA 2 2022,O=D-Trust GmbH,C=DE
# Serial Number:54:d5:a3:95:1e:3d:95:ba:72:1b:9a:d0:31:21:4a:ba
# Subject: CN=D-Trust SBR Root CA 2 2022,O=D-Trust GmbH,C=DE
# Not Valid Before: Thu Jul 07 07:30:00 2022
# Not Valid After
 : Tue Jul 07 07:29:59 2037
# Fingerprint (SHA-256):
DB:A8:4D:D7:EF:62:2D:48:54:63:A9:01:37:EA:4D:57:4D:F8:55:09:28:F6:AF:A0:3B:4D:8B:11:41:E6:36:CC
# Fingerprint (SHA1): 27:FF:63:B9:EF:34:29:31:03:38:1A:D8:60:60:DA:CC:60:28:35:E1
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
```

CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-Trust SBR Root CA 2 2022"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\111\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\023\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\043\060\041\006\003\125\004\003\023
\032\104\055\124\162\165\163\164\040\123\102\122\040\122\157\157
\164\040\103\101\040\062\040\062\060\062\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\111\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\023\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\043\060\041\006\003\125\004\003\023
\032\104\055\124\162\165\163\164\040\123\102\122\040\122\157\157
\164\040\103\101\040\062\040\062\060\062\062
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\124\325\243\225\036\075\225\272\162\033\232\320\061\041
\112\272
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\254\060\202\003\224\240\003\002\001\002\002\020\124
\325\243\225\036\075\225\272\162\033\232\320\061\041\112\272\060
\015\006\011\052\206\110\206\367\015\001\001\015\005\000\060\111
\061\013\060\011\006\003\125\004\006\023\002\104\105\061\025\060
\023\006\003\125\004\012\023\014\104\055\124\162\165\163\164\040
\107\155\142\110\061\043\060\041\006\003\125\004\003\023\032\104
\055\124\162\165\163\164\040\123\102\122\040\122\157\157\164\040
\103\101\040\062\040\062\060\062\062\060\036\027\015\062\062\060
\067\060\067\060\067\063\060\060\060\132\027\015\063\067\060\067
\060\067\060\067\062\071\065\071\132\060\111\061\013\060\011\006
\003\125\004\006\023\002\104\105\061\025\060\023\006\003\125\004
\012\023\014\104\055\124\162\165\163\164\040\107\155\142\110\061
\043\060\041\006\003\125\004\003\023\032\104\055\124\162\165\163
\164\040\123\102\122\040\122\157\157\164\040\103\101\040\062\040
\062\060\062\062\060\202\002\042\060\015\006\011\052\206\110\206
\367\015\001\001\001\005\000\003\202\002\017\000\060\202\002\012
\002\202\002\001\000\257\054\274\216\066\214\353\144\257\121\152
\326\156\074\136\221\072\352\232\303\312\154\373\252\047\236\144
\042\251\100\337\271\050\105\132\354\123\141\026\050\230\302\212
\244\165\170\120\204\335\372\040\110\222\007\145\101\065\146\121
\022\164\141\235\007\006\205\071\061\127\173\050\077\325\234\245
\354\132\351\034\113\047\237\316\047\006\363\067\365\122\330\021

\063\026\101\072\037\365\143\170\145\143\206\311\277\310\001\004
\037\156\356\342\354\254\014\356\202\222\342\366\032\015\077\071
\371\235\145\223\255\370\271\005\301\075\370\067\201\126\303\240
\376\005\354\340\224\026\072\043\026\004\332\246\012\223\205\162
\155\141\073\241\215\105\326\343\177\276\025\275\066\204\010\366
\013\203\153\046\252\242\275\340\260\347\252\340\256\147\304\323
\202\245\014\251\244\360\063\171\015\120\077\360\357\220\075\044
\271\177\322\040\154\352\227\363\277\234\334\107\336\011\141\275
\224\171\225\132\002\166\065\140\304\107\042\015\367\166\143\003
\323\306\373\203\306\135\253\255\355\151\045\053\003\133\115\045
\000\101\343\214\207\027\122\250\340\005\053\103\115\024\023\312
\347\077\103\042\274\067\244\165\361\366\277\072\357\062\036\256
\356\130\206\220\162\272\004\254\100\110\357\134\304\170\247\251
\217\047\132\313\172\354\130\362\302\010\130\220\155\115\003\205
\171\161\025\005\016\116\076\371\337\017\005\367\137\024\110\126
\041\015\063\222\261\254\214\345\030\376\277\017\356\340\004\252
\275\041\362\130\266\134\211\012\213\030\011\042\032\263\065\306
\146\302\365\063\025\231\200\340\010\371\226\057\023\214\356\332
\267\210\304\351\067\265\327\152\327\072\204\115\253\160\214\323
\116\024\125\240\242\020\374\144\332\147\350\361\313\063\335\311
\232\212\217\226\057\130\201\331\370\232\000\103\314\220\373\125
\166\373\206\343\067\001\050\014\157\364\351\131\115\025\167\121
\102\112\314\064\270\200\103\120\201\357\127\245\023\333\247\224
\171\017\113\312\176\027\175\257\243\041\144\350\161\125\126\217
\006\260\107\354\131\017\135\160\133\054\026\102\360\206\236\165
\336\153\115\110\230\204\342\127\030\266\234\202\231\145\072\213
\200\170\127\014\111\002\003\001\000\001\243\201\217\060\201\214
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001
\377\060\035\006\003\125\035\016\004\026\004\024\135\263\200\224
\033\345\206\277\150\272\024\064\244\366\356\155\362\335\337\347
\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006
\060\112\006\003\125\035\037\004\103\060\101\060\077\240\075\240
\073\206\071\150\164\164\160\072\057\057\143\162\154\056\144\055
\164\162\165\163\164\056\156\145\164\057\143\162\154\057\144\055
\164\162\165\163\164\137\163\142\162\137\162\157\157\164\137\143
\141\137\062\137\062\060\062\062\056\143\162\154\060\015\006\011
\052\206\110\206\367\015\001\001\015\005\000\003\202\002\001\000
\064\124\056\130\030\126\315\112\275\227\323\365\175\053\334\257
\017\121\341\115\274\041\113\223\364\000\104\023\007\020\013\045
\030\076\110\131\226\367\241\341\223\220\170\146\032\075\043\353
\042\253\001\246\216\014\121\063\346\155\214\061\356\254\244\001
\160\071\110\336\307\146\054\153\015\313\163\237\207\222\351\076
\107\037\270\357\057\356\267\126\214\110\211\360\070\247\025\071
\262\356\300\077\027\244\163\002\010\234\274\006\212\244\302\267
\141\141\371\303\333\304\320\172\174\141\336\261\130\221\365\335
\145\114\057\013\370\353\075\265\355\212\276\167\034\272\131\002
\022\146\161\345\230\047\316\016\075\257\121\242\105\371\202\373
\132\245\224\160\367\213\204\303\114\145\045\233\173\342\037\060

\160\263\100\216\072\356\275\364\347\150\305\235\311\051\107\161
\016\223\310\265\110\116\365\146\273\007\210\161\151\153\173\110
\216\157\360\021\304\264\311\160\024\230\040\275\355\247\352\001
\332\156\245\233\022\376\076\104\060\263\360\353\165\122\300\364
\303\372\167\046\244\167\202\055\157\363\050\036\116\225\360\060
\367\211\370\054\242\120\133\362\276\062\176\154\124\333\162\311
\052\132\340\034\266\013\330\122\232\131\241\343\260\001\047\305
\240\026\120\146\334\353\256\155\364\233\133\075\204\155\133\207
\347\251\211\273\156\270\340\233\123\211\300\377\056\100\032\211
\104\056\030\103\147\070\344\174\162\137\331\243\051\045\101\101
\075\034\167\033\144\250\303\125\356\143\161\146\142\203\364\177
\046\231\240\124\073\241\022\155\160\142\316\323\371\270\275\042
\374\324\232\324\273\342\070\026\057\267\175\071\302\260\251\003
\351\234\317\176\030\215\166\334\137\021\273\353\102\354\120\011
\076\134\354\220\061\330\032\162\272\077\151\007\356\230\064\302
\064\244\326\332\023\326\251\204\362\000\206\300\124\272\036\021
\260\342\271\304\007\264\221\347\252\346\061\126\157\261\104\304
\052\142\274\311\260\145\234\064\374\014\032\123\337\041\027\273
\302\155\241\012\346\361\260\252\104\011\120\111\070\172\135\161
\342\061\056\031\260\337\225\102\004\175\204\210\316\012\043\147
\153\070\235\026\336\006\376\050\160\070\245\132\256\374\203\355
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "D-Trust SBR Root CA 2 2022"
Issuer: CN=D-Trust SBR Root CA 2 2022,O=D-Trust GmbH,C=DE
Serial Number:54:d5:a3:95:1e:3d:95:ba:72:1b:9a:d0:31:21:4a:ba
Subject: CN=D-Trust SBR Root CA 2 2022,O=D-Trust GmbH,C=DE
Not Valid Before: Thu Jul 07 07:30:00 2022
Not Valid After : Tue Jul 07 07:29:59 2037
Fingerprint (SHA-256):
DB:A8:4D:D7:EF:62:2D:48:54:63:A9:01:37:EA:4D:57:4D:F8:55:09:28:F6:AF:A0:3B:4D:8B:11:41:E6:36:CC
Fingerprint (SHA1): 27:FF:63:B9:EF:34:29:31:03:38:1A:D8:60:60:DA:CC:60:28:35:E1
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL
 UTF8 "D-Trust SBR Root CA 2 2022"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\047\377\143\271\357\064\051\061\003\070\032\330\140\140\332\314
\140\050\065\341
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\220\361\364\053\074\247\312\112\210\073\005\053\010\124\205\336

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END
CKA_ISSUER MULTILINE_OCTAL
\060\111\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\023\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\043\060\041\006\003\125\004\003\023
\032\104\055\124\162\165\163\164\040\123\102\122\040\122\157\157
\164\040\103\101\040\062\040\062\060\062\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\124\325\243\225\036\075\225\272\162\033\232\320\061\041
\112\272
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Telekom Security SMIME ECC Root 2021"
#
# Issuer: CN=Telekom
 Security SMIME ECC Root 2021,O=Deutsche Telekom Security GmbH,C=DE
# Serial Number:15:2a:dd:14:c9:18:d1:a4:56:40:86:a6:25:af:07:5f
# Subject: CN=Telekom Security SMIME ECC Root 2021,O=Deutsche Telekom Security GmbH,C=DE
# Not Valid Before: Thu Mar 18 11:08:30 2021
# Not Valid After : Sat Mar 17 23:59:59 2046
# Fingerprint (SHA-256):
3A:E6:DF:7E:0D:63:7A:65:A8:C8:16:12:EC:6F:9A:14:2F:85:A1:68:34:C1:02:80:D8:8E:70:70:28:51:87:55
# Fingerprint (SHA1): B7:F9:1D:98:EC:25:93:F3:50:14:84:9A:A8:7E:22:10:3C:C4:39:27
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Telekom Security SMIME ECC Root 2021"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\047\060\045\006\003\125\004\012\014\036\104\145\165\164\163\143
\150\145\040\124\145\154\145\153\157\155\040\123\145\143\165\162
\151\164\171\040\107\155\142\110\061\055\060\053\006\003\125\004
\003\014\044\124\145\154\145\153\157\155\040\123\145\143\165\162
\151\164\171\040\123\115\111\115\105\040\105\103\103\040\122\157
\157\164\040\062\060\062\061
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\104\105\061
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\047\060\045\006\003\125\004\012\014\036\104\145\165\164\163\143
\150\145\040\124\145\154\145\153\157\155\040\123\145\143\165\162
\151\164\171\040\107\155\142\110\061\055\060\053\006\003\125\004
\003\014\044\124\145\154\145\153\157\155\040\123\145\143\165\162
\151\164\171\040\123\115\111\115\105\040\105\103\103\040\122\157
\157\164\040\062\060\062\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\025\052\335\024\311\030\321\244\126\100\206\246\045\257
\007\137
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\107\060\202\001\315\240\003\002\001\002\002\020\025
\052\335\024\311\030\321\244\126\100\206\246\045\257\007\137\060
\012\006\010\052\206\110\316\075\004\003\003\060\145\061\013\060
\011\006\003\125\004\006\023\002\104\105\061\047\060\045\006\003
\125\004\012\014\036\104\145\165\164\163\143\150\145\040\124\145
\154\145\153\157\155\040\123\145\143\165\162\151\164\171\040\107
\155\142\110\061\055\060\053\006\003\125\004\003\014\044\124\145
\154\145\153\157\155\040\123\145\143\165\162\151\164\171\040\123
\115\111\115\105\040\105\103\103\040\122\157\157\164\040\062\060
\062\061\060\036\027\015\062\061\060\063\061\070\061\061\060\070
\063\060\132\027\015\064\066\060\063\061\067\062\063\065\071\065
\071\132\060\145\061\013\060\011\006\003\125\004\006\023\002\104
\105\061\047\060\045\006\003\125\004\012\014\036\104\145\165\164
\163\143\150\145\040\124\145\154\145\153\157\155\040\123\145\143
\165\162\151\164\171\040\107\155\142\110\061\055\060\053\006\003
\125\004\003\014\044\124\145\154\145\153\157\155\040\123\145\143
\165\162\151\164\171\040\123\115\111\115\105\040\105\103\103\040
\122\157\157\164\040\062\060\062\061\060\166\060\020\006\007\052
\206\110\316\075\002\001\006\005\053\201\004\000\042\003\142\000
\004\260\031\217\242\153\265\307\315\017\060\231\067\014\303\140
\133\361\361\047\040\125\075\300\222\213\253\127\241\157\163\203
\041\302\103\023\014\136\211\252\307\005\065\171\223\142\220\326
\135\023\037\321\172\240\274\236\020\247\146\174\106\012\260\127
\154\277\346\124\071\070\041\154\022\134\161\314\323\132\137\155
\267\247\206\337\263\337\356\302\347\211\101\226\065\366\057\112
\265\243\102\060\100\060\035\006\003\125\035\016\004\026\004\024
\053\313\001\014\143\303\123\022\245\250\127\257\320\234\203\373
\275\220\072\113\060\017\006\003\125\035\023\001\001\377\004\005
\060\003\001\001\377\060\016\006\003\125\035\017\001\001\377\004
\004\003\002\001\006\060\012\006\010\052\206\110\316\075\004\003
\003\003\150\000\060\145\002\061\000\326\274\110\222\207\107\003
\307\160\073\045\266\037\256\106\147\163\164\000\047\113\344\245
\004\242\003\337\136\050\255\156\136\003\310\335\150\234\266\277
\224\020\110\225\057\017\377\030\213\002\060\001\100\063\236\227
\227\115\005\362\164\124\014\315\071\375\152\153\011\301\044\077
\141\216\070\241\267\350\327\104\025\021\142\377\016\141\067\107

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\113\100\177\112\137\262\147\132\163\165\302
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Telekom Security SMIME ECC Root 2021"
# Issuer: CN=Telekom Security SMIME ECC Root 2021,O=Deutsche Telekom Security GmbH,C=DE
# Serial Number:15:2a:dd:14:c9:18:d1:a4:56:40:86:a6:25:af:07:5f
# Subject: CN=Telekom Security SMIME ECC Root 2021,O=Deutsche Telekom Security GmbH,C=DE
# Not Valid Before: Thu Mar 18 11:08:30 2021
# Not Valid After : Sat Mar 17 23:59:59 2046
# Fingerprint (SHA-256):
3A:E6:DF:7E:0D:63:7A:65:A8:C8:16:12:EC:6F:9A:14:2F:85:A1:68:34:C1:02:80:D8:8E:70:70:28:51:87:55
# Fingerprint (SHA1): B7:F9:1D:98:EC:25:93:F3:50:14:84:9A:A8:7E:22:10:3C:C4:39:27
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE
 CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Telekom Security SMIME ECC Root 2021"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\267\371\035\230\354\045\223\363\120\024\204\232\250\176\042\020
\074\304\071\047
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\165\275\136\355\174\015\146\076\007\244\233\274\002\007\330\264
END
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\047\060\045\006\003\125\004\012\014\036\104\145\165\164\163\143
\150\145\040\124\145\154\145\153\157\155\040\123\145\143\165\162
\151\164\171\040\107\155\142\110\061\055\060\053\006\003\125\004
\003\014\044\124\145\154\145\153\157\155\040\123\145\143\165\162
\151\164\171\040\123\115\111\115\105\040\105\103\103\040\122\157
\157\164\040\062\060\062\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\025\052\335\024\311\030\321\244\126\100\206\246\045\257
\007\137
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING
 CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
```

```
#
# Certificate "Telekom Security TLS ECC Root 2020"
#
# Issuer: CN=Telekom Security TLS ECC Root 2020,O=Deutsche Telekom Security GmbH,C=DE
# Serial Number:36:3a:96:8c:c9:5c:b2:58:cd:d0:01:5d:c5:e5:57:00
# Subject: CN=Telekom Security TLS ECC Root 2020,O=Deutsche Telekom Security GmbH,C=DE
# Not Valid Before: Tue Aug 25 07:48:20 2020
# Not Valid After : Fri Aug 25 23:59:59 2045
# Fingerprint (SHA-256):
57:8A:F4:DE:D0:85:3F:4E:59:98:DB:4A:EA:F9:CB:EA:8D:94:5F:60:B6:20:A3:8D:1A:3C:13:B2:BC:7B:A8:E1
# Fingerprint (SHA1): C0:F8:96:C5:A9:3B:01:06:21:07:DA:18:42:48:BC:E9:9D:88:D5:EC
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Telekom Security TLS ECC Root 2020"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\143\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\047\060\045\006\003\125\004\012\014\036\104\145\165\164\163\143
\150\145\040\124\145\154\145\153\157\155\040\123\145\143\165\162
\151\164\171\040\107\155\142\110\061\053\060\051\006\003\125\004
\003\014\042\124\145\154\145\153\157\155\040\123\145\143\165\162
\151\164\171\040\124\114\123\040\105\103\103\040\122\157\157\164
\040\062\060\062\060
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\143\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\047\060\045\006\003\125\004\012\014\036\104\145\165\164\163\143
\150\145\040\124\145\154\145\153\157\155\040\123\145\143\165\162
\151\164\171\040\107\155\142\110\061\053\060\051\006\003\125\004
\003\014\042\124\145\154\145\153\157\155\040\123\145\143\165\162
\151\164\171\040\124\114\123\040\105\103\103\040\122\157\157\164
\040\062\060\062\060
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\066\072\226\214\311\134\262\130\315\320\001\135\305\345
\127\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\102\060\202\001\311\240\003\002\001\002\002\020\066
\072\226\214\311\134\262\130\315\320\001\135\305\345\127\000\060
\012\006\010\052\206\110\316\075\004\003\003\060\143\061\013\060
\011\006\003\125\004\006\023\002\104\105\061\047\060\045\006\003
\125\004\012\014\036\104\145\165\164\163\143\150\145\040\124\145
\154\145\153\157\155\040\123\145\143\165\162\151\164\171\040\107
```

\155\142\110\061\053\060\051\006\003\125\004\003\014\042\124\145
\154\145\153\157\155\040\123\145\143\165\162\151\164\171\040\124
\114\123\040\105\103\103\040\122\157\157\164\040\062\060\062\060
\060\036\027\015\062\060\060\070\062\065\060\067\064\070\062\060
\132\027\015\064\065\060\070\062\065\062\063\065\071\065\071\132
\060\143\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\047\060\045\006\003\125\004\012\014\036\104\145\165\164\163\143
\150\145\040\124\145\154\145\153\157\155\040\123\145\143\165\162
\151\164\171\040\107\155\142\110\061\053\060\051\006\003\125\004
\003\014\042\124\145\154\145\153\157\155\040\123\145\143\165\162
\151\164\171\040\124\114\123\040\105\103\103\040\122\157\157\164
\040\062\060\062\060\060\166\060\020\006\007\052\206\110\316\075
\002\001\006\005\053\201\004\000\042\003\142\000\004\316\277\376
\127\250\277\325\252\367\020\232\315\274\321\021\242\275\147\102
\314\220\353\025\030\220\331\242\315\014\052\045\353\076\117\316
\265\322\217\017\363\065\332\103\213\002\200\276\157\121\044\035
\017\153\053\312\237\302\157\120\062\345\067\040\266\040\377\210
\015\017\155\111\273\333\006\244\207\220\222\224\364\011\320\317
\177\310\200\013\301\227\263\273\065\047\311\302\033\243\102\060
\100\060\035\006\003\125\035\016\004\026\004\024\343\162\314\156
\225\231\107\261\346\263\141\114\321\313\253\343\272\315\336\237
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001
\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001
\006\060\012\006\010\052\206\110\316\075\004\003\003\003\147\000
\060\144\002\060\165\122\213\267\244\020\117\256\112\020\213\262
\204\133\102\341\346\052\066\002\332\240\156\031\077\045\277\332
\131\062\216\344\373\220\334\223\144\316\255\264\101\107\140\342
\317\247\313\036\002\060\067\101\214\146\337\101\153\326\203\000
\101\375\057\132\367\120\264\147\321\054\250\161\327\103\312\234
\047\044\221\203\110\015\317\315\367\124\201\257\354\177\344\147
\333\270\220\356\335\045
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Telekom Security TLS ECC Root 2020"
Issuer: CN=Telekom Security TLS ECC Root 2020,O=Deutsche Telekom Security GmbH,C=DE
Serial Number:36:3a:96:8c:c9:5c:b2:58:cd:d0:01:5d:c5:e5:57:00
Subject: CN=Telekom Security TLS ECC Root 2020,O=Deutsche Telekom Security GmbH,C=DE
Not Valid Before: Tue Aug 25 07:48:20 2020
Not Valid After : Fri Aug 25 23:59:59 2045
Fingerprint (SHA-256):
57:8A:F4:DE:D0:85:3F:4E:59:98:DB:4A:EA:F9:CB:EA:8D:94:5F:60:B6:20:A3:8D:1A:3C:13:B2:BC:7B:A8:E1
Fingerprint (SHA1):
C0:F8:96:C5:A9:3B:01:06:21:07:DA:18:42:48:BC:E9:9D:88:D5:EC
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

```
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Telekom Security TLS ECC Root 2020"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\300\370\226\305\251\073\001\006\041\007\332\030\102\110\274\351
\235\210\325\354
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\301\253\376\152\020\054\003\215\274\034\042\062\300\205\247\375
END
CKA_ISSUER MULTILINE_OCTAL
\060\143\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\047\060\045\006\003\125\004\012\014\036\104\145\165\164\163\143
\150\145\040\124\145\154\145\153\157\155\040\123\145\143\165\162
\151\164\171\040\107\155\142\110\061\053\060\051\006\003\125\004
\003\014\042\124\145\154\145\153\157\155\040\123\145\143\165\162
\151\164\171\040\124\114\123\040\105\103\103\040\122\157\157\164
\040\062\060\062\060
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\066\072\226\214\311\134\262\130\315\320\001\135\305\345
\127\000
END
CKA_TRUST_SERVER_AUTH
 CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Telekom Security SMIME RSA Root 2023"
#
# Issuer: CN=Telekom Security SMIME RSA Root 2023,O=Deutsche Telekom Security GmbH,C=DE
# Serial Number:0c:7e:62:f5:79:73:3b:9d:43:8e:8b:63:ed:91:95:b8
# Subject: CN=Telekom Security SMIME RSA Root 2023,O=Deutsche Telekom Security GmbH,C=DE
# Not Valid Before: Tue Mar 28 12:09:22 2023
# Not Valid After : Fri Mar 27 23:59:59 2048
# Fingerprint (SHA-256):
78:A6:56:34:4F:94:7E:9C:C0:F7:34:D9:05:3D:32:F6:74:20:86:B6:B9:CD:2C:AE:4F:AE:1A:2E:4E:FD:E0:48
# Fingerprint (SHA1): 89:3F:6F:1C:E2:4D:7F:FB:C3:D3:14:7A:05:80:A7:DE:E1:0A:5E:4D
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Telekom Security
 SMIME RSA Root 2023"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
```

CKA_SUBJECT MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\047\060\045\006\003\125\004\012\014\036\104\145\165\164\163\143
\150\145\040\124\145\154\145\153\157\155\040\123\145\143\165\162
\151\164\171\040\107\155\142\110\061\055\060\053\006\003\125\004
\003\014\044\124\145\154\145\153\157\155\040\123\145\143\165\162
\151\164\171\040\123\115\111\115\105\040\122\123\101\040\122\157
\157\164\040\062\060\062\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\047\060\045\006\003\125\004\012\014\036\104\145\165\164\163\143
\150\145\040\124\145\154\145\153\157\155\040\123\145\143\165\162
\151\164\171\040\107\155\142\110\061\055\060\053\006\003\125\004
\003\014\044\124\145\154\145\153\157\155\040\123\145\143\165\162
\151\164\171\040\123\115\111\115\105\040\122\123\101\040\122\157
\157\164\040\062\060\062\063
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\014\176\142\365\171\163\073\235\103\216\213\143\355\221
\225\270
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\267\060\202\003\237\240\003\002\001\002\002\020\014
\176\142\365\171\163\073\235\103\216\213\143\355\221\225\270\060
\015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\145
\061\013\060\011\006\003\125\004\006\023\002\104\105\061\047\060
\045\006\003\125\004\012\014\036\104\145\165\164\163\143\150\145
\040\124\145\154\145\153\157\155\040\123\145\143\165\162\151\164
\171\040\107\155\142\110\061\055\060\053\006\003\125\004\003\014
\044\124\145\154\145\153\157\155\040\123\145\143\165\162\151\164
\171\040\123\115\111\115\105\040\122\123\101\040\122\157\157\164
\040\062\060\062\063\060\036\027\015\062\063\060\063\062\070\061
\062\060\071\062\062\132\027\015\064\070\060\063\062\067\062\063
\065\071\065\071\132\060\145\061\013\060\011\006\003\125\004\006
\023\002\104\105\061\047\060\045\006\003\125\004\012\014\036\104
\145\165\164\163\143\150\145\040\124\145\154\145\153\157\155\040
\123\145\143\165\162\151\164\171\040\107\155\142\110\061\055\060
\053\006\003\125\004\003\014\044\124\145\154\145\153\157\155\040
\123\145\143\165\162\151\164\171\040\123\115\111\115\105\040\122
\123\101\040\122\157\157\164\040\062\060\062\063\060\202\002\042
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\002\017\000\060\202\002\012\002\202\002\001\000\357\305\016
\213\276\062\322\147\107\377\012\114\147\263\052\277\310\303\305
\221\353\265\307\036\221\341\146\250\210\213\125\040\200\037\121
\136\167\227\236\031\012\134\307\153\067\041\174\003\066\001\364

\210\045\331\250\056\101\252\374\330\046\340\226\100\142\171\256
\127\236\003\070\032\034\262\167\024\076\351\241\162\320\344\340
\067\321\027\106\355\120\134\172\130\305\370\053\367\165\057\317
\201\236\132\054\267\072\254\240\131\230\004\121\014\377\111\305
\120\375\036\323\107\205\113\063\117\242\067\265\257\004\232\047
\062\235\126\325\077\125\141\343\213\157\256\121\376\227\376\151
\007\372\142\133\046\346\024\171\025\245\023\070\256\137\067\276
\224\112\326\015\200\026\151\244\221\262\072\111\230\165\235\106
\020\212\134\172\177\204\245\350\257\036\307\253\263\132\106\265
\243\113\365\246\043\066\000\106\261\333\005\266\033\316\236\172
\062\134\232\325\162\303\235\206\115\053\204\323\036\265\210\332
\020\170\234\042\303\073\043\265\353\023\007\275\157\123\354\233
\354\233\323\145\365\007\011\343\135\247\231\265\176\206\216\325
\002\377\267\205\011\343\107\024\335\226\146\030\064\336\010\325
\337\313\030\231\142\013\053\354\000\135\122\104\323\306\226\374
\062\126\045\221\317\315\031\073\225\071\076\002\207\231\143\266
\325\076\064\172\017\021\165\201\274\175\004\312\140\264\050\165
\327\002\121\335\122\000\056\307\375\211\361\134\363\313\244\047
\022\070\217\273\373\211\360\344\304\070\054\276\202\240\161\141
\142\221\217\110\014\057\053\251\260\361\313\020\004\347\164\277
\067\220\357\117\052\103\065\227\022\306\052\160\015\336\054\125
\107\171\143\051\365\312\037\152\006\122\034\256\055\044\042\203
\042\257\320\252\060\267\052\037\377\145\043\130\145\223\310\216
\175\100\020\061\206\170\331\125\313\074\060\360\336\121\052\000
\066\322\047\105\137\330\350\241\041\075\176\106\126\073\051\105
\361\035\005\011\316\266\103\060\334\105\220\020\060\114\244\153
\206\213\077\075\057\061\221\161\357\046\271\366\276\235\260\154
\337\021\356\130\077\103\171\206\071\200\361\046\027\007\230\360
\231\252\060\054\103\131\024\316\355\342\100\023\205\002\003\001
\000\001\243\143\060\141\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\006\060\035\006\003\125\035\016\004\026\004
\024\232\316\254\052\354\001\372\145\160\336\227\235\361\322\000
\214\245\243\144\273\060\017\006\003\125\035\023\001\001\377\004
\005\060\003\001\001\377\060\037\006\003\125\035\043\004\030\060
\026\200\024\232\316\254\052\354\001\372\145\160\336\227\235\361
\322\000\214\245\243\144\273\060\015\006\011\052\206\110\206\367
\015\001\001\014\005\000\003\202\002\001\000\343\120\375\365\100
\026\042\011\226\072\015\251\357\201\347\056\062\360\241\361\111
\136\173\210\015\004\162\327\276\147\250\272\035\356\120\273\162
\156\172\321\273\014\162\060\106\310\325\327\002\022\026\231\116
\036\337\132\226\356\217\221\276\256\206\370\020\167\245\304\156
\107\141\300\362\046\331\117\141\150\005\110\165\010\025\245\241
\173\325\270\263\211\171\346\355\361\363\141\000\206\173\056\061
\376\243\134\370\171\075\264\133\210\173\340\043\273\015\241\027
\372\313\150\015\230\167\161\010\342\155\103\164\153\304\066\305
\224\101\244\000\326\127\055\231\212\213\040\022\025\002\062\016
\322\111\354\201\110\305\152\047\122\327\262\163\125\123\226\074
\236\117\114\265\240\320\117\127\320\147\050\110\144\276\306\270

\272\354\144\317\310\173\305\152\347\052\346\131\127\266\326\324
\326\300\147\134\331\236\050\011\100\277\363\251\065\061\145\140
\003\313\031\154\202\225\003\036\137\077\341\275\352\111\161\345
\133\267\013\107\026\033\040\211\155\224\231\014\176\210\154\035
\015\364\267\041\032\131\227\254\313\350\276\027\037\225\174\123
\233\257\120\122\252\215\013\056\257\132\327\140\362\052\151\052
\271\356\124\160\030\252\275\365\241\077\322\335\241\143\031\000
\370\247\014\353\243\171\362\160\131\243\370\242\022\003\354\023
\377\344\002\206\066\327\301\303\244\265\324\244\302\067\105\266
\224\160\075\305\275\353\243\025\035\343\066\172\025\151\052\126
\064\071\317\245\232\066\252\310\355\171\274\317\366\316\004\123
\013\332\262\120\043\174\274\076\046\255\360\016\103\273\046\313
\256\302\100\336\067\037\012\240\121\315\143\235\266\117\330\306
\107\174\274\330\264\355\236\213\363\021\342\250\265\076\354\256
\160\076\176\042\273\065\110\027\140\142\024\221\060\243\166\075
\246\121\066\213\037\015\335\152\061\034\245\355\335\226\243\156
\162\017\023\115\252\247\251\134\170\371\003\022\030\223\067\105
\022\211\075\370\276\312\275\331\276\014\331\030\144\247\310\101
\076\165\202\041\070\175\145\364\240\324\023\113\007\170\051\371
\235\176\314\207\077\304\332\056\210\335\343\013\334\132\121\132
\351\331\022\117\236\002\333\367\005\045\121
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Telekom Security SMIME RSA Root 2023"
Issuer: CN=Telekom Security SMIME RSA Root 2023,O=Deutsche Telekom Security GmbH,C=DE
Serial Number:0c:7e:62:f5:79:73:3b:9d:43:8e:8b:63:ed:91:95:b8
Subject: CN=Telekom Security SMIME RSA Root 2023,O=Deutsche Telekom Security GmbH,C=DE
Not Valid Before: Tue Mar 28 12:09:22 2023
Not Valid After : Fri Mar 27 23:59:59 2048
Fingerprint (SHA-256):
78:A6:56:34:4F:94:7E:9C:C0:F7:34:D9:05:3D:32:F6:74:20:86:B6:B9:CD:2C:AE:4F:AE:1A:2E:4E:FD:E0:48
Fingerprint (SHA1): 89:3F:6F:1C:E2:4D:7F:FB:C3:D3:14:7A:05:80:A7:DE:E1:0A:5E:4D
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Telekom Security SMIME RSA Root 2023"
CKA_CERT_SHA1_HASH
 MULTILINE_OCTAL
\211\077\157\034\342\115\177\373\303\323\024\172\005\200\247\336
\341\012\136\115
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\353\335\044\371\050\017\243\302\303\156\012\077\320\303\015\033

```
END
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\047\060\045\006\003\125\004\012\014\036\104\145\165\164\163\143
\150\145\040\124\145\154\145\153\157\155\040\123\145\143\165\162
\151\164\171\040\107\155\142\110\061\055\060\053\006\003\125\004
\003\014\044\124\145\154\145\153\157\155\040\123\145\143\165\162
\151\164\171\040\123\115\111\115\105\040\122\123\101\040\122\157
\157\164\040\062\060\062\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\014\176\142\365\171\163\073\235\103\216\213\143\355\221
\225\270
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL
 CK_FALSE

#
# Certificate "Telekom Security TLS RSA Root 2023"
#
# Issuer: CN=Telekom Security TLS RSA Root 2023,O=Deutsche Telekom Security GmbH,C=DE
# Serial Number:21:9c:54:2d:e8:f6:ec:71:77:fa:4e:e8:c3:70:57:97
# Subject: CN=Telekom Security TLS RSA Root 2023,O=Deutsche Telekom Security GmbH,C=DE
# Not Valid Before: Tue Mar 28 12:16:45 2023
# Not Valid After : Fri Mar 27 23:59:59 2048
# Fingerprint (SHA-256):
EF:C6:5C:AD:BB:59:AD:B6:EF:E8:4D:A2:23:11:B3:56:24:B7:1B:3B:1E:A0:DA:8B:66:55:17:4E:C8:97:86:46
# Fingerprint (SHA1): 54:D3:AC:B3:BD:57:56:F6:85:9D:CE:E5:C3:21:E2:D4:AD:83:D0:93
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Telekom Security TLS RSA Root 2023"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\143\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\047\060\045\006\003\125\004\012\014\036\104\145\165\164\163\143
\150\145\040\124\145\154\145\153\157\155\040\123\145\143\165\162
\151\164\171\040\107\155\142\110\061\053\060\051\006\003\125\004
\003\014\042\124\145\154\145\153\157\155\040\123\145\143\165\162
\151\164\171\040\124\114\123\040\122\123\101\040\122\157\157\164
\040\062\060\062\063
END
CKA_ID
```

UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\143\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\047\060\045\006\003\125\004\012\014\036\104\145\165\164\163\143
\150\145\040\124\145\154\145\153\157\155\040\123\145\143\165\162
\151\164\171\040\107\155\142\110\061\053\060\051\006\003\125\004
\003\014\042\124\145\154\145\153\157\155\040\123\145\143\165\162
\151\164\171\040\124\114\123\040\122\123\101\040\122\157\157\164
\040\062\060\062\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\041\234\124\055\350\366\354\161\167\372\116\350\303\160
\127\227
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\263\060\202\003\233\240\003\002\001\002\002\020\041
\234\124\055\350\366\354\161\167\372\116\350\303\160\127\227\060
\015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\143
\061\013\060\011\006\003\125\004\006\023\002\104\105\061\047\060
\045\006\003\125\004\012\014\036\104\145\165\164\163\143\150\145
\040\124\145\154\145\153\157\155\040\123\145\143\165\162\151\164
\171\040\107\155\142\110\061\053\060\051\006\003\125\004\003\014
\042\124\145\154\145\153\157\155\040\123\145\143\165\162\151\164
\171\040\124\114\123\040\122\123\101\040\122\157\157\164\040\062
\060\062\063\060\036\027\015\062\063\060\063\062\070\061\062\061
\066\064\065\132\027\015\064\070\060\063\062\067\062\063\065\071
\065\071\132\060\143\061\013\060\011\006\003\125\004\006\023\002
\104\105\061\047\060\045\006\003\125\004\012\014\036\104\145\165
\164\163\143\150\145\040\124\145\154\145\153\157\155\040\123\145
\143\165\162\151\164\171\040\107\155\142\110\061\053\060\051\006
\003\125\004\003\014\042\124\145\154\145\153\157\155\040\123\145
\143\165\162\151\164\171\040\124\114\123\040\122\123\101\040\122
\157\157\164\040\062\060\062\063\060\202\002\042\060\015\006\011
\052\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000
\060\202\002\012\002\202\002\001\000\355\065\241\201\200\363\313
\112\151\133\302\373\121\203\256\046\375\341\156\363\201\022\175
\161\100\377\207\165\102\051\041\355\201\122\054\337\022\301\031
\204\211\301\275\305\050\325\325\113\154\104\326\114\333\007\226
\112\125\172\312\066\202\004\066\250\245\374\047\366\111\361\325
\162\236\221\371\043\326\160\173\273\365\233\301\354\223\317\031
\352\145\176\210\160\240\163\374\366\377\265\126\142\341\163\152
\064\230\076\202\270\254\225\123\364\001\240\047\007\162\243\000
\123\240\344\262\253\203\070\127\063\045\224\237\276\110\035\230
\341\243\272\236\134\315\004\161\121\175\165\170\253\363\131\252
\304\340\140\276\217\203\122\270\165\032\101\065\355\274\363\072
\143\351\251\024\105\327\346\122\321\156\322\336\274\343\365\013
\073\346\340\304\275\103\144\023\246\316\364\230\067\154\212\225
\250\227\310\107\017\360\136\020\213\347\035\034\376\261\073\240

\005\063\150\005\101\202\301\003\053\001\310\347\217\115\253\350
\265\366\315\153\104\265\347\335\213\354\352\045\264\000\042\127
\115\260\261\262\061\301\026\316\377\375\024\204\267\107\372\262
\361\160\336\333\213\154\066\130\244\174\263\021\321\303\167\177
\137\266\045\340\015\305\322\263\371\270\270\167\333\067\161\161
\107\343\140\030\117\044\266\165\067\170\271\243\142\257\275\311
\162\216\057\314\273\256\333\344\025\122\031\007\063\373\152\267
\055\113\220\050\202\163\376\030\213\065\215\333\247\004\152\276
\352\301\115\066\073\026\066\221\062\357\266\100\211\221\103\340
\362\242\253\004\056\346\362\114\016\026\064\040\254\207\301\055
\176\311\146\107\027\024\021\244\363\367\241\044\211\253\330\032
\310\241\134\261\243\367\214\155\310\001\311\117\311\354\304\374
\254\121\063\321\310\203\321\311\237\035\324\107\064\051\076\313
\260\016\372\203\013\050\130\345\051\334\077\174\250\237\311\266
\012\273\246\350\106\026\017\226\345\173\344\152\172\110\155\166
\230\005\245\334\155\036\102\036\102\332\032\340\122\367\265\203
\300\032\173\170\065\054\070\365\037\375\111\243\056\322\131\143
\277\200\260\214\223\163\313\065\246\231\225\042\141\145\003\140
\373\057\223\113\372\232\234\200\073\002\003\001\000\001\243\143
\060\141\060\016\006\003\125\035\017\001\001\377\004\004\003\002
\001\006\060\035\006\003\125\035\016\004\026\004\024\266\247\227
\202\075\164\205\233\367\074\237\223\232\225\171\165\122\214\155
\107\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001
\001\377\060\037\006\003\125\035\043\004\030\060\026\200\024\266
\247\227\202\075\164\205\233\367\074\237\223\232\225\171\165\122
\214\155\107\060\015\006\011\052\206\110\206\367\015\001\001\014
\005\000\003\202\002\001\000\250\314\141\246\276\165\236\025\120
\244\153\373\250\160\105\174\272\176\261\132\374\133\043\372\012
\167\370\230\161\202\014\155\340\136\106\252\223\364\036\240\303
\341\223\333\113\255\262\246\135\253\260\324\142\313\136\273\146
\365\055\356\227\100\074\142\353\136\326\024\326\214\342\226\213
\101\151\223\065\346\271\231\153\142\264\241\027\146\064\246\153
\143\306\271\116\362\042\351\130\015\126\101\321\372\014\112\360
\063\315\073\273\155\041\072\256\216\162\265\303\112\373\351\175
\345\261\233\206\356\342\340\175\264\367\062\375\042\204\361\205
\311\067\171\351\265\077\277\134\344\164\262\217\021\142\000\335
\030\146\241\331\173\043\137\361\216\325\147\350\124\332\133\072
\153\066\157\371\201\261\063\107\063\167\100\371\122\252\335\324
\203\317\205\170\231\232\223\271\163\147\102\106\021\041\352\376
\012\251\033\032\145\151\263\217\256\026\266\366\113\126\262\055
\371\245\310\354\073\142\243\355\153\320\116\325\100\011\244\037
\230\327\072\245\222\131\040\344\260\175\315\133\163\150\275\155
\304\242\023\016\147\031\270\215\102\176\154\014\232\156\240\044
\055\325\105\033\334\304\002\024\376\205\133\145\227\312\116\220
\120\010\172\102\065\371\352\302\146\324\370\001\256\036\264\276
\303\250\357\376\166\232\242\246\037\106\366\204\355\374\333\316
\304\002\316\167\110\054\214\262\354\303\000\243\354\054\125\030
\301\176\031\356\341\057\362\255\203\233\236\253\031\337\306\212

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\057\214\167\345\267\005\354\073\301\354\276\206\263\206\274\300
\367\334\347\352\133\256\262\314\265\065\206\113\320\342\077\266
\330\370\016\000\356\135\343\367\215\130\377\317\213\067\351\143
\137\156\367\011\161\066\302\022\135\127\362\310\264\315\363\356
\002\337\021\334\152\271\127\204\035\131\115\214\316\310\016\043
\302\267\046\232\020\024\161\376\223\262\212\270\200\360\016\020
\236\323\250\120\014\067\202\057\352\340\212\235\341\054\071\377
\265\264\163\000\344\367\110\246\163\254\277\262\336\167\004\207
\264\243\315\233\065\044\067\372\220\223\023\201\102\306\230\046
\165\067\146\101\020\254\273\365\224\343\302\061\053\255\347\043
\126\314\065\045\222\263\120
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Telekom Security TLS RSA Root
 2023"
# Issuer: CN=Telekom Security TLS RSA Root 2023,O=Deutsche Telekom Security GmbH,C=DE
# Serial Number:21:9c:54:2d:e8:f6:ec:71:77:fa:4e:e8:c3:70:57:97
# Subject: CN=Telekom Security TLS RSA Root 2023,O=Deutsche Telekom Security GmbH,C=DE
# Not Valid Before: Tue Mar 28 12:16:45 2023
# Not Valid After : Fri Mar 27 23:59:59 2048
# Fingerprint (SHA-256):
EF:C6:5C:AD:BB:59:AD:B6:EF:E8:4D:A2:23:11:B3:56:24:B7:1B:3B:1E:A0:DA:8B:66:55:17:4E:C8:97:86:46
# Fingerprint (SHA1): 54:D3:AC:B3:BD:57:56:F6:85:9D:CE:E5:C3:21:E2:D4:AD:83:D0:93
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Telekom Security TLS RSA Root 2023"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\124\323\254\263\275\127\126\366\205\235\316\345\303\041\342\324
\255\203\320\223
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\277\133\353\124\100\315\110\161\304\040\215\175\336\012\102\362
END
CKA_ISSUER MULTILINE_OCTAL
\060\143\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\047\060\045\006\003\125\004\012\014\036\104\145\165\164\163\143
\150\145\040\124\145\154\145\153\157\155\040\123\145\143\165\162
\151\164\171\040\107\155\142\110\061\053\060\051\006\003\125\004
\003\014\042\124\145\154\145\153\157\155\040\123\145\143\165\162
\151\164\171\040\124\114\123\040\122\123\101\040\122\157\157\164
\040\062\060\062\063
END
```

CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\041\234\124\055\350\366\354\161\167\372\116\350\303\160
\127\227
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "FIRMAPROFESIONAL CA ROOT-A WEB"
#
Issuer: CN=FIRMAPROFESIONAL CA ROOT-A WEB,OID.2.5.4.97=VATES-A62634068,O=Firmaprofesional SA,C=ES
Serial Number:31:97:21:ed:af:89:42:7f:35:41:87:a1:67:56:4c:6d
Subject: CN=FIRMAPROFESIONAL CA ROOT-A WEB,OID.2.5.4.97=VATES-A62634068,O=Firmaprofesional
SA,C=ES
Not Valid Before: Wed Apr 06 09:01:36 2022
Not Valid After : Sun Mar 31 09:01:36 2047
Fingerprint (SHA-256):
BE:F2:56:DA:F2:6E:9C:69:BD:EC:16:02:35:97:98:F3:CA:F7:18:21:A0:3E:01:82:57:C5:3C:65:61:7F:3D:4A
Fingerprint (SHA1): A8:31:11:74:A6:14:15:0D:CA:77:DD:0E:E4:0C:5D:58:FC:A0:72:A5
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "FIRMAPROFESIONAL CA ROOT-A WEB"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\156\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\034\060\032\006\003\125\004\012\014\023\106\151\162\155\141\160
\162\157\146\145\163\151\157\156\141\154\040\123\101\061\030\060
\026\006\003\125\004\141\014\017\126\101\124\105\123\055\101\066
\062\066\063\064\060\066\070\061\047\060\045\006\003\125\004\003
\014\036\106\111\122\115\101\120\122\117\106\105\123\111\117\116
\101\114\040\103\101\040\122\117\117\124\055\101\040\127\105\102
END
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\156\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\034\060\032\006\003\125\004\012\014\023\106\151\162\155\141\160
\162\157\146\145\163\151\157\156\141\154\040\123\101\061\030\060
\026\006\003\125\004\141\014\017\126\101\124\105\123\055\101\066
\062\066\063\064\060\066\070\061\047\060\045\006\003\125\004\003
\014\036\106\111\122\115\101\120\122\117\106\105\123\111\117\116

\101\114\040\103\101\040\122\117\117\124\055\101\040\127\105\102
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\061\227\041\355\257\211\102\177\065\101\207\241\147\126
\114\155
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\172\060\202\002\000\240\003\002\001\002\002\020\061
\227\041\355\257\211\102\177\065\101\207\241\147\126\114\155\060
\012\006\010\052\206\110\316\075\004\003\003\060\156\061\013\060
\011\006\003\125\004\006\023\002\105\123\061\034\060\032\006\003
\125\004\012\014\023\106\151\162\155\141\160\162\157\146\145\163
\151\157\156\141\154\040\123\101\061\030\060\026\006\003\125\004
\141\014\017\126\101\124\105\123\055\101\066\062\066\063\064\060
\066\070\061\047\060\045\006\003\125\004\003\014\036\106\111\122
\115\101\120\122\117\106\105\123\111\117\116\101\114\040\103\101
\040\122\117\117\124\055\101\040\127\105\102\060\036\027\015\062
\062\060\064\060\066\060\071\060\061\063\066\132\027\015\064\067
\060\063\063\061\060\071\060\061\063\066\132\060\156\061\013\060
\011\006\003\125\004\006\023\002\105\123\061\034\060\032\006\003
\125\004\012\014\023\106\151\162\155\141\160\162\157\146\145\163
\151\157\156\141\154\040\123\101\061\030\060\026\006\003\125\004
\141\014\017\126\101\124\105\123\055\101\066\062\066\063\064\060
\066\070\061\047\060\045\006\003\125\004\003\014\036\106\111\122
\115\101\120\122\117\106\105\123\111\117\116\101\114\040\103\101
\040\122\117\117\124\055\101\040\127\105\102\060\166\060\020\006
\007\052\206\110\316\075\002\001\006\005\053\201\004\000\042\003
\142\000\004\107\123\352\054\021\244\167\307\052\352\363\326\137
\173\323\004\221\134\372\210\306\042\271\203\020\142\167\204\063
\055\351\003\210\324\340\063\367\355\167\054\112\140\352\344\157
\255\155\264\370\114\212\244\344\037\312\352\117\070\112\056\202
\163\053\307\146\233\012\214\100\234\174\212\366\362\071\140\262
\336\313\354\270\344\157\352\233\135\267\123\220\030\062\125\305
\040\267\224\243\143\060\141\060\017\006\003\125\035\023\001\001
\377\004\005\060\003\001\001\377\060\037\006\003\125\035\043\004
\030\060\026\200\024\223\341\103\143\134\074\235\326\047\363\122
\354\027\262\251\257\054\367\166\370\060\035\006\003\125\035\016
\004\026\004\024\223\341\103\143\134\074\235\326\047\363\122\354
\027\262\251\257\054\367\166\370\060\016\006\003\125\035\017\001
\001\377\004\004\003\002\001\006\060\012\006\010\052\206\110\316
\075\004\003\003\003\150\000\060\145\002\060\035\174\244\173\303
\211\165\063\341\073\251\105\277\106\351\351\241\335\311\042\026
\267\107\021\013\330\232\272\361\310\013\160\120\123\002\221\160
\205\131\251\036\244\346\352\043\061\240\000\002\061\000\375\342
\370\263\257\026\271\036\163\304\226\343\301\060\031\330\176\346
\303\227\336\034\117\270\211\057\063\353\110\017\031\367\207\106
\135\046\220\245\205\305\271\172\224\076\207\250\275\000
END

```
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "FIRMAPROFESIONAL CA ROOT-A WEB"
# Issuer: CN=FIRMAPROFESIONAL CA ROOT-A WEB,OID.2.5.4.97=VATES-A62634068,O=Firmaprofesional
SA,C=ES
# Serial Number:31:97:21:ed:af:89:42:7f:35:41:87:a1:67:56:4c:6d
# Subject: CN=FIRMAPROFESIONAL CA ROOT-A WEB,OID.2.5.4.97=VATES-
A62634068,O=Firmaprofesional SA,C=ES
# Not Valid Before: Wed Apr 06 09:01:36 2022
# Not Valid After : Sun Mar 31 09:01:36 2047
# Fingerprint (SHA-256):
BE:F2:56:DA:F2:6E:9C:69:BD:EC:16:02:35:97:98:F3:CA:F7:18:21:A0:3E:01:82:57:C5:3C:65:61:7F:3D:4A
# Fingerprint (SHA1): A8:31:11:74:A6:14:15:0D:CA:77:DD:0E:E4:0C:5D:58:FC:A0:72:A5
CKA_CLASS
 CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "FIRMAPROFESIONAL CA ROOT-A WEB"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\250\061\021\164\246\024\025\015\312\167\335\016\344\014\135\130
\374\240\162\245
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\202\262\255\105\000\202\260\146\143\370\137\303\147\116\316\243
END
CKA_ISSUER MULTILINE_OCTAL
\060\156\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\034\060\032\006\003\125\004\012\014\023\106\151\162\155\141\160
\162\157\146\145\163\151\157\156\141\154\040\123\101\061\030\060
\026\006\003\125\004\141\014\017\126\101\124\105\123\055\101\066
\062\066\063\064\060\066\070\061\047\060\045\006\003\125\004\003
\014\036\106\111\122\115\101\120\122\117\106\105\123\111\117\116
\101\114\040\103\101\040\122\117\117\124\055\101\040\127\105\102
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\061\227\041\355\257\211\102\177\065\101\207\241\147\126
\114\155
END
CKA_TRUST_SERVER_AUTH
 CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
```

```
# Microsoft Code Signing Only Certificate
# Certificate "CAEDICOM Root"
# Issuer: C=ES,O=EDICOM,CN=CAEDICOM Root
# Serial Number:fb:71:26:58:ad:99:e5
# Subject: C=ES,O=EDICOM,CN=CAEDICOM Root
# Not Valid Before: Wed May 21 11:06:35 2014
# Not Valid After: Sun May 21 10:20:00 2034
# Fingerprint (MD5): cd:d5:a1:fe:28:31:9c:13:be:d5:c1:e8:cf:56:f0:76
# Fingerprint (SHA1): 55:9b:ba:7b:0f:fe:80:d6:d3:82:9b:1f:d0:7a:a4:d3:22:19:47:90
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CAEDICOM Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\066\061\026\060\024\006\003\125\004\003\014\015\103\101\105
\104\111\103\117\115\040\122\157\157\164\061\017\060\015\006\003
\125\004\012\014\006\105\104\111\103\117\115\061\013\060\011\006
\003\125\004\006\023\002\105\123
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\066\061\026\060\024\006\003\125\004\003\014\015\103\101\105
\104\111\103\117\115\040\122\157\157\164\061\017\060\015\006\003
\125\004\012\014\006\105\104\111\103\117\115\061\013\060\011\006
\003\125\004\006\023\002\105\123
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\000\373\161\046\130\255\231\345
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\121\060\202\003\071\240\003\002\001\002\002\010\000
\373\161\046\130\255\231\345\060\015\006\011\052\206\110\206\367
\015\001\001\013\005\000\060\066\061\026\060\024\006\003\125\004
\003\014\015\103\101\105\104\111\103\117\115\040\122\157\157\164
\061\017\060\015\006\003\125\004\012\014\006\105\104\111\103\117
\115\061\013\060\011\006\003\125\004\006\023\002\105\123\060\036
\027\015\061\064\060\065\062\061\061\061\060\066\063\065\132\027
\015\063\064\060\065\062\061\061\060\062\060\060\060\132\060\066
\061\026\060\024\006\003\125\004\003\014\015\103\101\105\104\111
\103\117\115\040\122\157\157\164\061\017\060\015\006\003\125\004
\012\014\006\105\104\111\103\117\115\061\013\060\011\006\003\125
\004\006\023\002\105\123\060\202\002\042\060\015\006\011\052\206
\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202
\002\012\002\202\002\001\000\333\200\312\350\111\164\307\323\070
\056\361\305\043\142\374\066\214\057\036\176\071\013\351\006\364
```

\125\233\245\230\051\224\355\206\107\062\203\363\305\222\172\005
\327\051\002\076\026\303\050\177\065\144\051\172\171\273\241\342
\036\141\024\215\347\000\320\334\242\124\145\212\337\151\271\161
\107\177\070\070\026\106\247\151\061\021\065\114\341\052\177\377
\155\117\225\075\343\135\110\115\031\123\010\132\153\041\325\022
\060\151\227\220\257\055\301\365\177\101\137\111\066\217\115\270
\036\032\225\137\332\017\157\134\025\065\304\021\274\137\205\233
\275\255\073\125\136\273\337\316\273\257\134\231\140\335\037\151
\032\111\110\041\371\011\012\317\162\247\360\362\336\345\170\031
\276\022\335\315\207\171\101\316\057\105\327\013\221\020\021\004
\036\022\235\362\070\003\137\026\151\256\240\012\332\300\371\353
\240\015\030\017\171\136\221\235\344\037\024\234\064\023\031\002
\104\272\121\303\356\171\262\140\024\243\257\274\110\055\050\070
\150\001\103\144\312\016\206\203\142\320\212\031\246\047\361\053
\173\113\051\041\133\232\314\150\102\020\310\113\117\017\043\262
\210\174\304\134\156\027\160\305\167\257\225\300\045\244\042\012
\323\174\371\330\162\310\320\055\275\247\350\322\055\213\114\241
\156\012\374\264\100\063\273\232\153\374\244\352\311\376\340\064
\210\103\314\306\274\077\165\322\245\251\257\372\227\271\076\267
\316\124\240\115\300\135\056\301\050\330\143\124\162\270\254\132
\365\072\373\040\141\006\072\364\240\053\070\253\314\203\014\111
\324\156\076\155\017\076\163\057\066\346\363\117\263\300\000\321
\105\111\133\214\366\243\230\035\204\177\231\012\303\352\012\074
\303\323\044\170\110\147\365\033\073\016\035\016\103\261\004\165
\301\240\071\166\213\366\331\002\245\035\341\236\133\007\273\066
\127\112\041\115\371\211\151\264\154\017\327\257\240\025\044\231
\347\370\327\123\224\354\022\277\244\245\327\355\356\216\065\167
\167\334\246\177\040\124\222\326\143\326\162\236\115\052\266\217
\163\363\031\241\304\260\037\346\064\243\013\000\076\227\111\047
\141\252\252\004\101\063\070\265\120\121\314\066\025\333\037\377
\275\312\110\203\110\247\263\002\003\001\000\001\243\143\060\141
\060\035\006\003\125\035\016\004\026\004\024\024\315\052\131\170
\143\253\141\031\350\270\075\241\340\132\300\165\347\371\313\060
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377
\060\037\006\003\125\035\043\004\030\060\026\200\024\024\315\052
\131\170\143\253\141\031\350\270\075\241\340\132\300\165\347\371
\313\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001
\006\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000
\003\202\002\001\000\075\011\031\000\266\221\002\154\354\016\367
\341\342\142\260\277\063\015\375\125\022\364\010\232\367\053\055
\256\367\234\107\330\037\006\001\023\265\216\347\262\202\013\075
\204\131\103\324\007\330\053\134\020\172\044\054\312\215\350\325
\243\071\234\061\314\353\340\072\341\325\277\317\307\207\173\140
\377\107\071\327\243\104\326\010\046\133\317\132\124\354\210\323
\216\017\171\074\310\243\117\246\302\216\047\360\336\022\256\136
\031\255\347\042\126\212\130\062\340\371\006\320\251\052\264\065
\233\014\206\046\121\000\224\107\120\374\245\304\045\141\371\130
\360\105\160\056\111\166\177\021\326\157\265\371\051\005\341\015

\303\116\130\037\257\035\354\067\320\112\371\006\006\201\323\333
\240\226\270\016\221\060\171\346\120\337\210\270\013\251\134\324
\007\364\311\250\314\175\217\223\143\011\144\000\005\052\150\146
\103\273\242\273\376\225\256\371\304\245\012\210\142\110\170\045
\174\052\077\021\144\246\323\042\040\107\235\062\326\362\343\310
\244\141\164\347\202\302\104\272\240\321\135\137\274\361\104\016
\203\117\034\120\205\304\351\347\154\374\346\270\125\341\242\032
\200\267\220\104\247\204\042\227\107\042\336\253\070\067\317\265
\362\034\076\102\160\273\165\266\145\050\153\313\177\202\065\252
\366\363\040\170\050\163\007\226\060\160\245\052\161\134\241\171
\244\026\271\106\075\136\264\000\111\205\211\323\016\337\201\256
\130\215\130\326\341\305\104\170\056\034\040\273\242\107\227\277
\166\024\073\251\050\217\237\013\165\322\241\074\355\053\307\216
\220\241\172\242\231\060\142\374\205\035\065\163\073\363\265\131
\042\033\315\010\261\014\235\165\152\333\205\073\016\207\237\062
\117\222\000\001\001\114\111\150\202\200\101\154\371\375\161\275
\213\364\170\012\140\243\236\261\122\035\300\212\343\236\305\277
\053\031\152\230\247\261\336\025\120\237\252\224\045\217\251\200
\202\247\162\272\111\144\011\047\141\053\156\274\043\050\063\135
\236\156\360\271\275\040\062\214\335\240\013\231\273\264\204\004
\044\165\051\226\367\247\245\027\270\121\005\353\164\255\121\171
\226\374\273\373\337\011\055\010\222\104\316\300\322\263\030\307
\024\042\277\041\361
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "CAEDICOM Root"
Issuer: C=ES,O=EDICOM,CN=CAEDICOM Root
Serial Number:fb:71:26:58:ad:99:e5
Subject: C=ES,O=EDICOM,CN=CAEDICOM Root
Not Valid Before: Wed May 21 11:06:35 2014
Not Valid After: Sun May 21 10:20:00 2034
Fingerprint (MD5): cd:d5:a1:fe:28:31:9c:13:be:d5:c1:e8:cf:56:f0:76
Fingerprint (SHA1): 55:9b:ba:7b:0f:fe:80:d6:d3:82:9b:1f:d0:7a:a4:d3:22:19:47:90
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CAEDICOM Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\125\233\272\173\017\376\200\326\323\202\233\037\320\172\244\323
\042\031\107\220
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL

\315\325\241\376\050\061\234\023\276\325\301\350\317\126\360\166
END
CKA_ISSUER
MULTILINE_OCTAL
\060\066\061\026\060\024\006\003\125\004\003\014\015\103\101\105
\104\111\103\117\115\040\122\157\157\164\061\017\060\015\006\003
\125\004\012\014\006\105\104\111\103\117\115\061\013\060\011\006
\003\125\004\006\023\002\105\123
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\000\373\161\046\130\255\231\345
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Symantec Enterprise Mobile Root for Microsoft"
Issuer: CN=Symantec Enterprise Mobile Root for Microsoft,O=Symantec Corporation,C=US
Serial Number:0f:6b:55:2f:9e:bf:90:7b:0f:66:29:a9:bd:f4:d8:ce
Subject: CN=Symantec Enterprise Mobile Root for Microsoft,O=Symantec Corporation,C=US
Not Valid Before: Thu Mar 15 00:00:00 2012
Not Valid
After: Sun Mar 14 23:59:59 2032
Fingerprint (MD5): 71:d0:a5:ff:2d:59:74:16:94:be:e3:7d:1e:5c:86:0b
Fingerprint (SHA1): 92:b4:6c:76:e1:30:54:e1:04:f2:30:51:7e:6e:50:4d:43:ab:10:b5
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Symantec Enterprise Mobile Root for Microsoft"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\144\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\035\060\033\006\003\125\004\012\023\024\123\171\155\141\156\164
\145\143\040\103\157\162\160\157\162\141\164\151\157\156\061\066
\060\064\006\003\125\004\003\023\055\123\171\155\141\156\164\145
\143\040\105\156\164\145\162\160\162\151\163\145\040\115\157\142
\151\154\145\040\122\157\157\164\040\146\157\162\040\115\151\143
\162\157\163\157\146\164
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\144\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\035\060\033\006\003\125\004\012\023\024\123\171\155\141\156\164
\145\143\040\103\157\162\160\157\162\141\164\151\157\156\061\066
\060\064\006\003\125\004\003\023\055\123\171\155\141\156\164\145

\143\040\105\156\164\145\162\160\162\151\163\145\040\115\157\142
\151\154\145\040\122\157\157\164\040\146\157\162\040\115\151\143
\162\157\163\157\146\164
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\017\153\125\057\236\277\220\173\017\146\051\251\275\364
\330\316
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\275\060\202\002\245\240\003\002\001\002\002\020\017
\153\125\057\236\277\220\173\017\146\051\251\275\364\330\316\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\144
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\035\060
\033\006\003\125\004\012\023\024\123\171\155\141\156\164\145\143
\040\103\157\162\160\157\162\141\164\151\157\156\061\066\060\064
\006\003\125\004\003\023\055\123\171\155\141\156\164\145\143\040
\105\156\164\145\162\160\162\151\163\145\040\115\157\142\151\154
\145\040\122\157\157\164\040\146\157\162\040\115\151\143\162\157
\163\157\146\164\060\036\027\015\061\062\060\063\061\065\060\060
\060\060\060\060\132\027\015\063\062\060\063\061\064\062\063\065
\071\065\071\132\060\144\061\013\060\011\006\003\125\004\006\023
\002\125\123\061\035\060\033\006\003\125\004\012\023\024\123\171
\155\141\156\164\145\143\040\103\157\162\160\157\162\141\164\151
\157\156\061\066\060\064\006\003\125\004\003\023\055\123\171\155
\141\156\164\145\143\040\105\156\164\145\162\160\162\151\163\145
\040\115\157\142\151\154\145\040\122\157\157\164\040\146\157\162
\040\115\151\143\162\157\163\157\146\164\060\202\001\042\060\015
\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001
\017\000\060\202\001\012\002\202\001\001\000\265\075\260\162\356
\221\351\245\151\234\021\115\172\371\263\372\075\362\224\233\043
\267\246\003\354\142\030\374\205\022\042\376\301\161\175\124\223
\271\221\175\142\366\312\250\070\025\145\370\167\075\345\202\040
\072\324\265\321\156\215\006\111\275\337\202\016\044\205\347\357
\170\055\030\362\340\013\150\106\076\044\020\310\127\356\016\155
\161\246\323\261\126\034\327\051\325\262\352\124\005\012\250\074
\241\270\045\122\007\005\240\337\347\334\356\134\073\101\265\253
\134\063\062\322\316\353\351\226\370\100\364\012\272\063\035\370
\126\003\011\202\365\147\007\304\300\064\301\135\374\105\273\352
\074\232\325\164\161\155\325\206\323\302\374\205\274\124\353\243
\325\362\117\325\105\257\127\274\360\042\300\217\242\105\310\165
\064\167\336\241\155\067\162\263\163\215\014\153\123\272\131\341
\250\076\200\127\322\137\131\356\150\165\317\201\234\243\312\105
\214\067\333\005\162\064\034\062\002\370\325\371\054\015\332\130
\236\304\027\264\233\311\220\304\210\131\077\161\221\220\104\030
\276\042\213\171\222\056\102\260\213\227\133\002\003\001\000\001
\243\153\060\151\060\017\006\003\125\035\023\001\001\377\004\005
\060\003\001\001\377\060\016\006\003\125\035\017\001\001\377\004

\004\003\002\001\006\060\047\006\003\125\035\021\004\040\060\036
\244\034\060\032\061\030\060\026\006\003\125\004\003\023\017\115
\120\113\111\055\062\060\064\070\055\061\055\061\061\061\060\035
\006\003\125\035\016\004\026\004\024\115\354\337\046\006\334\044
\020\300\266\231\364\327\071\307\157\031\370\046\050\060\015\006
\011\052\206\110\206\367\015\001\001\013\005\000\003\202\001\001
\000\251\127\131\320\001\124\024\106\257\307\171\124\014\152\052
\133\330\072\035\201\344\210\243\061\264\361\363\065\361\106\163
\134\103\311\376\274\242\152\031\300\275\057\137\313\070\243\155
\156\350\024\136\362\170\176\105\172\341\273\364\056\233\105\353
\340\035\120\034\064\133\177\230\212\206\017\207\332\344\144\046
\167\374\011\337\043\101\117\016\237\372\016\372\104\205\360\051
\227\244\224\342\364\100\055\221\034\166\364\250\140\336\161\246
\260\005\342\117\151\331\031\013\211\072\340\372\253\053\372\361
\263\062\355\374\174\160\145\136\320\173\021\173\235\350\133\032
\112\166\244\173\121\071\254\175\251\014\164\070\350\273\125\337
\304\316\300\247\041\132\270\033\237\001\305\247\020\376\175\371
\152\010\231\001\321\366\065\120\070\344\366\103\344\030\330\200
\114\354\307\004\342\141\214\175\111\355\317\264\245\361\362\220
\222\011\010\065\163\240\043\062\312\351\234\236\034\276\013\007
\054\167\136\027\114\332\234\202\341\200\033\245\363\332\367\210
\277\277\071\047\370\044\376\261\113\310\227\355\344\022\024\045
\210
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Symantec Enterprise Mobile Root for Microsoft"
Issuer: CN=Symantec Enterprise Mobile Root for Microsoft,O=Symantec Corporation,C=US
Serial Number:0f:6b:55:2f:9e:bf:90:7b:0f:66:29:a9:bd:f4:d8:ce
Subject: CN=Symantec Enterprise Mobile Root for Microsoft,O=Symantec Corporation,C=US
Not Valid Before: Thu Mar 15 00:00:00 2012
Not Valid After: Sun Mar 14 23:59:59 2032
Fingerprint (MD5): 71:d0:a5:ff:2d:59:74:16:94:be:e3:7d:1e:5c:86:0b
#
Fingerprint (SHA1): 92:b4:6c:76:e1:30:54:e1:04:f2:30:51:7e:6e:50:4d:43:ab:10:b5
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Symantec Enterprise Mobile Root for Microsoft"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\222\264\154\166\341\060\124\341\004\362\060\121\176\156\120\115
\103\253\020\265
END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\161\320\245\377\055\131\164\026\224\276\343\175\036\134\206\013
END
CKA_ISSUER MULTILINE_OCTAL
\060\144\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\035\060\033\006\003\125\004\012\023\024\123\171\155\141\156\164
\145\143\040\103\157\162\160\157\162\141\164\151\157\156\061\066
\060\064\006\003\125\004\003\023\055\123\171\155\141\156\164\145
\143\040\105\156\164\145\162\160\162\151\163\145\040\115\157\142
\151\154\145\040\122\157\157\164\040\146\157\162\040\115\151\143
\162\157\163\157\146\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\017\153\125\057\236\277\220\173\017\146\051\251\275\364
\330\316
END
CKA_TRUST_SERVER_AUTH
 CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "I.CA Root CA/RSA"
# Issuer: 2.5.4.5=NTRCZ-26439395,CN=I.CA Root CA/RSA,O=První certifikaní autorita\, a.s.,C=CZ
# Serial Number:05:f5:e1:00
# Subject: 2.5.4.5=NTRCZ-26439395,CN=I.CA Root CA/RSA,O=První certifikaní autorita\, a.s.,C=CZ
# Not Valid Before: Wed May 27 12:20:00 2015
# Not Valid After: Sun May 27 12:20:00 2040
# Fingerprint (MD5): 34:ba:8d:c4:33:9a:b5:27:ee:bd:5b:7c:7d:82:97:7f
# Fingerprint (SHA1): 9b:09:59:89:81:54:08:1b:f6:a9:0e:9b:9e:58:a4:69:0c:9b:a1:04
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "I.CA Root CA/RSA"
CKA_CERTIFICATE_TYPE
 CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\160\061\013\060\011\006\003\125\004\006\023\002\103\132\061
\055\060\053\006\003\125\004\012\014\044\120\162\166\156\303\255
\040\143\145\162\164\151\146\151\153\141\304\215\156\303\255\040
\141\165\164\157\162\151\164\141\054\040\141\056\163\056\061\031
\060\027\006\003\125\004\003\014\020\111\056\103\101\040\122\157
\157\164\040\103\101\057\122\123\101\061\027\060\025\006\003\125
\004\005\023\016\116\124\122\103\132\055\062\066\064\063\071\063
\071\065
END
```

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\160\061\013\060\011\006\003\125\004\006\023\002\103\132\061
\055\060\053\006\003\125\004\012\014\044\120\162\166\156\303\255
\040\143\145\162\164\151\146\151\153\141\304\215\156\303\255\040
\141\165\164\157\162\151\164\141\054\040\141\056\163\056\061\031
\060\027\006\003\125\004\003\014\020\111\056\103\101\040\122\157
\157\164\040\103\101\057\122\123\101\061\027\060\025\006\003\125
\004\005\023\016\116\124\122\103\132\055\062\066\064\063\071\063
\071\065
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\004\005\365\341\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\176\060\202\004\146\240\003\002\001\002\002\004\005
\365\341\000\060\015\006\011\052\206\110\206\367\015\001\001\015
\005\000\060\160\061\013\060\011\006\003\125\004\006\023\002\103
\132\061\055\060\053\006\003\125\004\012\014\044\120\162\166\156
\303\255\040\143\145\162\164\151\146\151\153\141\304\215\156\303
\255\040\141\165\164\157\162\151\164\141\054\040\141\056\163\056
\061\031\060\027\006\003\125\004\003\014\020\111\056\103\101\040
\122\157\157\164\040\103\101\057\122\123\101\061\027\060\025\006
\003\125\004\005\023\016\116\124\122\103\132\055\062\066\064\063
\071\063\071\065\060\036\027\015\061\065\060\065\062\067\061\062
\062\060\060\060\132\027\015\064\060\060\065\062\067\061\062\062
\060\060\060\132\060\160\061\013\060\011\006\003\125\004\006\023
\002\103\132\061\055\060\053\006\003\125\004\012\014\044\120\162
\166\156\303\255\040\143\145\162\164\151\146\151\153\141\304\215
\156\303\255\040\141\165\164\157\162\151\164\141\054\040\141\056
\163\056\061\031\060\027\006\003\125\004\003\014\020\111\056\103
\101\040\122\157\157\164\040\103\101\057\122\123\101\061\027\060
\025\006\003\125\004\005\023\016\116\124\122\103\132\055\062\066
\064\063\071\063\071\065\060\202\002\042\060\015\006\011\052\206
\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202
\002\012\002\202\002\001\000\252\077\125\265\211\257\166\024\006
\052\144\046\224\070\017\137\366\334\004\157\061\105\365\012\375
\073\177\233\162\157\370\100\174\376\135\375\064\231\005\070\224
\111\272\261\360\275\370\231\134\300\121\372\252\015\373\346\161
\025\205\143\021\052\167\006\221\222\006\210\263\374\024\341\231
\106\264\051\202\256\204\203\356\265\046\207\156\370\213\125\104
\235\100\330\377\052\132\252\350\177\322\145\341\024\107\302\174
\061\375\165\141\012\033\214\200\112\236\264\342\056\024\107\061
\356\274\005\121\256\246\176\317\021\270\305\110\275\005\124\302
\204\344\247\150\153\370\270\372\176\050\311\271\317\344\041\117
\145\311\210\150\240\070\331\165\245\021\073\114\034\156\113\036
\324\206\154\301\255\005\107\323\054\224\015\314\207\055\032\055

\303\326\314\336\204\376\354\153\300\341\043\023\241\323\234\030
\176\340\162\327\134\125\274\114\263\100\061\033\234\100\315\232
\353\200\016\161\256\327\142\156\132\026\117\037\366\145\105\321
\237\172\205\101\031\302\172\072\316\041\222\344\224\160\114\273
\250\101\306\304\273\065\315\365\072\236\143\251\215\240\152\321
\040\104\252\052\266\110\245\162\303\316\236\344\130\110\107\011
\177\002\101\363\015\034\155\011\170\360\327\024\321\240\125\374
\021\326\132\032\000\171\345\073\346\010\313\122\236\244\011\253
\153\347\154\234\052\057\042\175\373\271\120\262\336\120\323\057
\014\162\271\326\263\267\263\010\346\353\173\254\364\264\305\366
\301\062\037\247\031\041\365\334\136\067\252\307\037\123\233\103
\076\346\236\237\332\015\327\126\242\017\123\151\055\125\277\353
\206\170\021\277\246\327\132\115\363\016\223\163\352\377\016\320
\347\217\361\310\263\360\330\030\163\154\245\162\210\361\160\114
\107\124\266\233\132\321\274\046\067\215\030\337\233\153\056\333
\013\045\263\212\262\343\255\006\134\155\273\175\027\003\007\001
\212\060\227\211\164\155\112\224\167\056\353\356\317\260\036\265
\352\166\364\265\024\070\225\327\325\331\057\077\262\244\046\314
\115\243\134\215\011\363\136\014\205\062\316\126\154\002\010\361
\113\243\253\277\310\124\240\005\205\164\344\165\035\172\274\234
\073\140\075\152\375\031\221\002\003\001\000\001\243\202\001\036
\060\202\001\032\060\016\006\003\125\035\017\001\001\377\004\004
\003\002\001\006\060\017\006\003\125\035\023\001\001\377\004\005
\060\003\001\001\377\060\035\006\003\125\035\016\004\026\004\024
\166\271\003\110\373\325\030\241\241\067\240\355\314\150\202\114
\122\064\066\015\060\201\327\006\003\125\035\040\004\201\317\060
\201\314\060\201\311\006\004\125\035\040\000\060\201\300\060\201
\275\006\010\053\006\001\005\005\007\002\002\060\201\260\032\201
\255\124\145\156\164\157\040\153\166\141\154\151\146\151\153\157
\166\141\156\171\040\163\171\163\164\145\155\157\166\171\040\143
\145\162\164\151\146\151\153\141\164\040\142\171\154\040\166\171
\144\141\156\040\160\157\144\154\145\040\172\141\153\157\156\141
\040\062\062\067\057\062\060\060\060\040\123\142\056\040\166\040
\160\154\141\164\156\145\155\040\172\156\145\156\151\057\124\150
\151\163\040\161\165\141\154\151\146\151\145\144\040\163\171\163
\164\145\155\040\143\145\162\164\151\146\151\143\141\164\145\040
\167\141\163\040\151\163\163\165\145\144\040\141\143\143\157\162
\144\151\156\147\040\164\157\040\101\143\164\040\116\157\056\040
\062\062\067\057\062\060\060\060\040\103\157\154\154\056\060\015
\006\011\052\206\110\206\367\015\001\001\015\005\000\003\202\002
\001\000\031\124\002\045\203\333\042\226\213\035\225\236\231\333
\064\316\223\320\037\056\173\134\140\044\152\014\327\205\104\170
\037\034\111\362\024\370\203\124\031\246\235\062\146\270\043\246
\073\206\052\237\066\374\027\374\120\017\140\306\067\375\044\250
\367\171\247\216\277\330\007\025\124\136\122\014\276\370\246\330
\310\101\104\361\366\023\334\203\031\133\257\335\144\367\063\026
\207\017\025\132\361\144\274\324\347\125\077\062\070\211\232\363
\314\110\305\154\061\161\222\232\046\027\302\174\107\002\155\065

\047\237\363\032\341\252\035\015\164\021\251\223\174\101\250\157
\273\216\234\305\001\344\163\366\272\120\056\346\020\324\274\157
\023\232\070\271\151\106\245\006\326\362\114\154\067\253\074\370
\333\032\306\125\360\310\370\035\041\156\057\000\152\261\342\155
\132\004\055\175\335\011\117\366\357\024\057\300\022\352\011\031
\053\032\312\240\161\233\261\072\062\274\377\103\030\363\175\057
\365\056\210\351\121\266\361\111\220\114\377\046\307\303\131\335
\164\137\301\120\135\070\134\235\150\125\151\152\264\100\167\311
\137\062\051\110\124\223\301\263\041\043\166\241\125\060\151\043
\077\061\111\304\241\315\073\166\131\225\132\202\264\255\161\265
\276\246\221\314\200\025\112\057\316\224\256\030\125\111\165\040
\104\270\363\001\233\301\170\054\216\020\114\247\144\255\255\072
\353\114\035\126\056\177\224\324\036\320\012\325\311\124\201\016
\036\376\367\224\371\141\072\077\065\356\323\140\311\373\110\262
\156\302\331\276\172\156\230\005\160\000\243\321\027\307\306\064
\257\154\365\115\217\135\122\014\335\200\233\172\155\347\230\343
\071\205\134\077\213\314\104\242\100\066\062\223\022\126\220\002
\236\076\131\150\002\037\126\210\036\257\301\376\017\173\125\215
\227\331\273\246\223\107\272\174\370\107\266\071\327\214\362\100
\154\207\234\014\376\055\335\334\161\374\016\221\010\244\103\075
\212\127\335\335\007\353\247\227\121\320\272\204\231\255\213\171
\376\311\004\220\203\023\053\351\227\015\145\211\362\021\055\067
\216\113\270\273\322\172\071\052\305\334\320\135\015\335\004\047
\230\237\130\375\216\206\273\005\177\360\355\067\222\220\335\234
\275\374
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL
 CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "I.CA Root CA/RSA"
Issuer: 2.5.4.5=NTRCZ-26439395,CN=I.CA Root CA/RSA,O=První certifikaní autorita\, a.s.,C=CZ
Serial Number:05:f5:e1:00
Subject: 2.5.4.5=NTRCZ-26439395,CN=I.CA Root CA/RSA,O=První certifikaní autorita\, a.s.,C=CZ
Not Valid Before: Wed May 27 12:20:00 2015
Not Valid After: Sun May 27 12:20:00 2040
Fingerprint (MD5): 34:ba:8d:c4:33:9a:b5:27:ee:bd:5b:7c:7d:82:97:7f
Fingerprint (SHA1): 9b:09:59:89:81:54:08:1b:f6:a9:0e:9b:9e:58:a4:69:0c:9b:a1:04
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "I.CA Root CA/RSA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\233\011\131\211\201\124\010\033\366\251\016\233\236\130\244\151

\014\233\241\004
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\064\272\215\304\063\232\265\047\356\275\133\174\175\202\227\177
END
CKA_ISSUER MULTILINE_OCTAL
\060\160\061\013\060\011\006\003\125\004\006\023\002\103\132\061
\055\060\053\006\003\125\004\012\014\044\120\162\166\156\303\255
\040\143\145\162\164\151\146\151\153\141\304\215\156\303\255\040
\141\165\164\157\162\151\164\141\054\040\141\056\163\056\061\031
\060\027\006\003\125\004\003\014\020\111\056\103\101\040\122\157
\157\164\040\103\101\057\122\123\101\061\027\060\025\006\003\125
\004\005\023\016\116\124\122\103\132\055\062\066\064\063\071\063
\071\065
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\004\005\365\341\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "MULTICERT Root Certification Authority 01"
Issuer: CN=MULTICERT Root Certification Authority 01,O=MULTICERT - Serviços de Certificação Electrónica S.A.,C=PT
Serial Number:54:4d:a5:bc:40:35:56:5a
#
Subject: CN=MULTICERT Root Certification Authority 01,O=MULTICERT - Serviços de Certificação Electrónica S.A.,C=PT
Not Valid Before: Fri Apr 04 08:59:47 2014
Not Valid After: Mon Apr 04 08:59:47 2039
Fingerprint (MD5): 30:b4:c2:a5:23:02:1d:2e:1b:c0:59:f2:ca:23:99:20
Fingerprint (SHA1): 46:af:7a:31:b5:99:46:0d:46:9d:60:41:14:5b:13:65:1d:f9:17:0a
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "MULTICERT Root Certification Authority 01"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\205\061\013\060\011\006\003\125\004\006\023\002\120\124
\061\102\060\100\006\003\125\004\012\014\071\115\125\114\124\111
\103\105\122\124\040\055\040\123\145\162\166\151\303\247\157\163
\040\144\145\040\103\145\162\164\151\146\151\143\141\303\247\303
\243\157\040\105\154\145\143\164\162\303\263\156\151\143\141\040

\123\056\101\056\061\062\060\060\006\003\125\004\003\014\051\115
\125\114\124\111\103\105\122\124\040\122\157\157\164\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171\040\060\061
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\205\061\013\060\011\006\003\125\004\006\023\002\120\124
\061\102\060\100\006\003\125\004\012\014\071\115\125\114\124\111
\103\105\122\124\040\055\040\123\145\162\166\151\303\247\157\163
\040\144\145\040\103\145\162\164\151\146\151\143\141\303\247\303
\243\157\040\105\154\145\143\164\162\303\263\156\151\143\141\040
\123\056\101\056\061\062\060\060\006\003\125\004\003\014\051\115
\125\114\124\111\103\105\122\124\040\122\157\157\164\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171\040\060\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\124\115\245\274\100\065\126\132
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\361\060\202\003\331\240\003\002\001\002\002\010\124
\115\245\274\100\065\126\132\060\015\006\011\052\206\110\206\367
\015\001\001\013\005\000\060\201\205\061\013\060\011\006\003\125
\004\006\023\002\120\124\061\102\060\100\006\003\125\004\012\014
\071\115\125\114\124\111\103\105\122\124\040\055\040\123\145\162
\166\151\303\247\157\163\040\144\145\040\103\145\162\164\151\146
\151\143\141\303\247\303\243\157\040\105\154\145\143\164\162\303
\263\156\151\143\141\040\123\056\101\056\061\062\060\060\006\003
\125\004\003\014\051\115\125\114\124\111\103\105\122\124\040\122
\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\040\060\061\060\036
\027\015\061\064\060\064\060\064\060\070\065\071\064\067\132\027
\015\063\071\060\064\060\064\060\070\065\071\064\067\132\060\201
\205\061\013\060\011\006\003\125\004\006\023\002\120\124\061\102
\060\100\006\003\125\004\012\014\071\115\125\114\124\111\103\105
\122\124\040\055\040\123\145\162\166\151\303\247\157\163\040\144
\145\040\103\145\162\164\151\146\151\143\141\303\247\303\243\157
\040\105\154\145\143\164\162\303\263\156\151\143\141\040\123\056
\101\056\061\062\060\060\006\003\125\004\003\014\051\115\125\114
\124\111\103\105\122\124\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171\040\060\061\060\202\002\042\060\015\006\011\052\206
\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202
\002\012\002\202\002\001\000\316\334\077\364\031\156\273\025\151
\206\364\344\315\347\072\160\073\307\232\213\073\203\000\201\133
\373\040\026\132\276\277\130\000\137\051\346\127\157\176\212\054

\025\007\134\032\143\214\102\137\026\335\332\211\204\105\127\027
\226\240\234\241\165\042\101\032\072\375\305\027\221\023\366\276
\142\012\274\156\045\055\133\300\214\020\146\367\342\326\373\334
\110\061\243\032\250\345\115\110\311\242\034\163\376\217\146\100
\143\167\131\007\074\075\024\237\324\367\205\221\320\303\102\365
\033\141\263\167\200\200\052\155\022\002\226\213\121\331\301\157
\047\013\032\007\064\000\377\322\131\114\051\350\327\031\143\330
\221\264\077\374\216\016\045\362\241\022\007\145\312\065\336\253
\376\026\243\010\214\257\177\176\022\364\131\026\005\037\350\255
\164\171\062\367\170\002\266\264\314\253\333\036\070\141\004\031
\172\101\100\332\132\021\144\165\002\375\144\321\326\224\102\017
\042\347\145\315\257\220\016\014\133\061\001\231\121\357\105\214
\175\245\070\332\236\174\113\344\246\350\263\244\202\326\003\064
\056\117\267\121\253\167\070\011\365\006\376\334\146\033\017\077
\372\175\357\214\125\276\340\015\206\225\241\334\275\304\303\010
\321\105\036\362\275\276\160\361\346\046\306\273\010\261\050\245
\302\245\355\210\326\241\300\373\043\361\047\071\314\341\204\007
\031\274\176\366\314\070\377\156\020\273\106\351\043\211\044\201
\377\000\342\121\000\334\122\120\175\023\120\175\026\075\100\215
\323\277\371\212\145\330\142\022\051\167\302\272\302\111\064\117
\212\171\151\311\113\025\363\064\336\317\257\206\342\345\310\251
\126\141\114\006\124\132\305\154\031\352\363\310\104\315\044\032
\166\321\161\000\131\153\331\165\233\316\375\020\376\261\203\242
\245\267\222\206\166\233\112\367\035\334\214\205\246\130\255\212
\246\150\151\027\311\155\033\246\317\047\113\051\054\335\161\102
\032\211\020\345\325\233\022\137\111\213\204\274\330\010\134\373
\317\070\102\257\276\321\156\173\221\252\146\100\305\005\176\053
\320\146\266\307\337\122\376\364\105\155\043\222\041\236\022\001
\220\163\203\342\245\011\015\327\300\370\205\225\036\143\321\077
\065\332\224\321\067\331\365\002\003\001\000\001\243\143\060\141
\060\035\006\003\125\035\016\004\026\004\024\325\071\034\234\133
\157\004\252\242\225\114\357\040\335\051\164\244\305\105\161\060
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377
\060\037\006\003\125\035\043\004\030\060\026\200\024\325\071\034
\234\133\157\004\252\242\225\114\357\040\335\051\164\244\305\105
\161\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001
\006\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000
\003\202\002\001\000\077\347\137\363\042\026\336\203\236\040\344
\202\347\345\236\167\311\373\053\260\164\015\337\033\164\042\017
\163\020\241\260\027\354\114\014\324\050\160\152\146\162\104\151
\020\223\166\065\317\057\370\217\074\253\031\174\161\222\225\161
\033\067\025\302\033\050\172\357\156\170\070\337\373\217\233\001
\040\334\257\366\326\215\011\146\332\304\106\251\374\225\252\104
\043\022\337\107\300\260\025\354\265\261\236\154\017\221\252\246
\072\345\301\015\140\154\120\100\160\134\134\310\316\263\314\353
\355\252\210\031\126\245\244\310\014\172\345\166\100\147\063\264
\075\226\334\167\313\043\170\371\123\133\317\215\336\261\247\216
\132\172\242\062\143\243\210\327\045\141\132\135\111\072\162\346

\317\252\224\206\154\156\367\202\340\216\147\223\050\305\250\015
\115\357\070\255\171\112\146\215\204\001\010\004\171\363\122\306
\101\347\232\142\006\263\365\022\036\354\331\000\103\323\353\226
\167\164\341\171\371\024\224\204\155\272\124\202\005\214\337\001
\362\060\210\201\254\172\057\213\103\054\166\064\316\065\347\207
\216\116\013\012\245\032\127\261\123\132\277\153\330\276\000\176
\306\371\356\146\061\010\261\337\224\063\204\234\167\117\173\144
\057\357\216\017\131\050\042\313\360\134\076\053\375\065\326\225
\377\003\354\145\122\176\276\362\031\370\173\325\122\054\122\167
\232\221\146\101\160\215\325\111\347\013\110\177\212\256\336\105
\075\335\376\346\322\344\222\303\173\316\060\240\111\156\067\255
\250\323\054\266\075\236\041\333\006\127\342\360\256\006\373\331
\305\021\067\241\173\333\035\021\174\150\166\040\076\365\274\245
\331\146\265\041\255\105\046\306\135\036\002\243\101\304\324\175
\201\031\313\027\227\006\017\346\354\164\000\106\304\165\335\075
\360\103\064\257\246\274\374\366\202\373\317\305\372\263\017\045
\245\077\146\020\326\236\202\245\333\072\023\171\336\215\251\327
\246\215\206\322\057\331\151\015\342\165\170\176\111\137\042\253
\206\160\050\121\263\172\266\240\171\372\324\345\203\247\260\167
\312\333\001\202\357\342\276\115\057\323\300\115\320\343\151\156
\174\046\233\353\246\373\105\357\261\004\212\057\252\041\006\366
\346\324\274\101\043
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "MULTICERT Root Certification Authority 01"
Issuer: CN=MULTICERT Root Certification Authority 01,O=MULTICERT - Serviços de Certificação Electrónica S.A.,C=PT
Serial Number:54:4d:a5:bc:40:35:56:5a
Subject: CN=MULTICERT Root Certification Authority 01,O=MULTICERT - Serviços de Certificação Electrónica S.A.,C=PT
Not Valid Before: Fri Apr 04 08:59:47 2014
Not Valid After: Mon Apr 04 08:59:47 2039
Fingerprint (MD5): 30:b4:c2:a5:23:02:1d:2e:1b:c0:59:f2:ca:23:99:20
Fingerprint (SHA1): 46:af:7a:31:b5:99:46:0d:46:9d:60:41:14:5b:13:65:1d:f9:17:0a
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL
 UTF8 "MULTICERT Root Certification Authority 01"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\106\257\172\061\265\231\106\015\106\235\140\101\024\133\023\145
\035\371\027\012

```
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\060\264\302\245\043\002\035\056\033\300\131\362\312\043\231\040
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\205\061\013\060\011\006\003\125\004\006\023\002\120\124
\061\102\060\100\006\003\125\004\012\014\071\115\125\114\124\111
\103\105\122\124\040\055\040\123\145\162\166\151\303\247\157\163
\040\144\145\040\103\145\162\164\151\146\151\143\141\303\247\303
\243\157\040\105\154\145\143\164\162\303\263\156\151\143\141\040
\123\056\101\056\061\062\060\060\006\003\125\004\003\014\051\115
\125\114\124\111\103\105\122\124\040\122\157\157\164\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171\040\060\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\124\115\245\274\100\065\126\132
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION
 CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Certification Authority of WoSign G2"
# Issuer: CN=Certification Authority of WoSign G2,O=WoSign CA Limited,C=CN
# Serial Number:6b:25:da:8a:88:9d:7c:bc:0f:05:b3:b1:7a:61:45:44
# Subject: CN=Certification Authority of WoSign G2,O=WoSign CA Limited,C=CN
# Not Valid Before: Sat Nov 08 00:58:58 2014
# Not Valid After: Tue Nov 08 00:58:58 2044
# Fingerprint (MD5): c8:1c:7d:19:aa:cb:71:93:f2:50:f8:52:a8:1e:ba:60
# Fingerprint (SHA1): fb:ed:dc:90:65:b7:27:20:37:bc:55:0c:9c:56:de:bb:f2:78:94:e1
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certification Authority of WoSign G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\130\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\032\060\030\006\003\125\004\012\023\021\127\157\123\151\147\156
\040\103\101\040\114\151\155\151\164\145\144\061\055\060\053\006
\003\125\004\003\023\044\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\040\157\146
\040\127\157\123\151\147\156\040\107\062
END
CKA_ID
```

UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\130\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\032\060\030\006\003\125\004\012\023\021\127\157\123\151\147\156
\040\103\101\040\114\151\155\151\164\145\144\061\055\060\053\006
\003\125\004\003\023\044\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\040\157\146
\040\127\157\123\151\147\156\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\153\045\332\212\210\235\174\274\017\005\263\261\172\141
\105\104
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\174\060\202\002\144\240\003\002\001\002\002\020\153
\045\332\212\210\235\174\274\017\005\263\261\172\141\105\104\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\130
\061\013\060\011\006\003\125\004\006\023\002\103\116\061\032\060
\030\006\003\125\004\012\023\021\127\157\123\151\147\156\040\103
\101\040\114\151\155\151\164\145\144\061\055\060\053\006\003\125
\004\003\023\044\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\040\157\146\040\127
\157\123\151\147\156\040\107\062\060\036\027\015\061\064\061\061
\060\070\060\060\065\070\065\070\132\027\015\064\064\061\061\060
\070\060\060\065\070\065\070\132\060\130\061\013\060\011\006\003
\125\004\006\023\002\103\116\061\032\060\030\006\003\125\004\012
\023\021\127\157\123\151\147\156\040\103\101\040\114\151\155\151
\164\145\144\061\055\060\053\006\003\125\004\003\023\044\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171\040\157\146\040\127\157\123\151\147\156\040
\107\062\060\202\001\042\060\015\006\011\052\206\110\206\367\015
\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202
\001\001\000\276\305\304\240\042\200\111\117\277\331\207\021\306
\123\341\273\017\275\140\177\257\366\202\016\037\334\260\216\075
\227\340\120\074\217\072\357\146\073\105\007\233\040\370\343\327
\045\206\065\220\026\242\135\157\060\031\010\207\013\177\006\262
\235\142\217\336\257\222\245\140\324\053\200\232\122\077\365\232
\203\351\064\132\313\331\325\142\134\346\016\340\337\006\230\016
\200\174\312\264\035\023\210\153\016\250\044\167\003\320\356\133
\363\312\151\221\065\071\126\305\155\343\367\075\117\136\223\070
\044\312\030\351\044\313\222\003\335\314\034\075\011\160\344\040
\344\361\256\254\273\163\151\243\143\072\017\105\017\241\112\232
\302\321\143\254\313\020\370\075\346\116\050\267\353\304\225\261
\254\375\136\253\372\101\313\135\235\113\334\364\174\166\357\147
\177\000\172\215\322\240\032\134\115\042\341\265\332\335\166\263
\324\166\337\136\270\213\230\310\024\124\314\153\027\222\267\340
\112\277\111\224\141\013\070\220\217\135\044\154\045\173\073\171
\331\342\176\235\255\237\230\241\006\374\170\024\140\127\370\356

\200\167\261\002\003\001\000\001\243\102\060\100\060\016\006\003
\125\035\017\001\001\377\004\004\003\002\001\006\060\017\006\003
\125\035\023\001\001\377\004\005\060\003\001\001\377\060\035\006
\003\125\035\016\004\026\004\024\372\140\251\353\145\305\335\026
\024\010\116\014\017\215\233\340\367\144\257\147\060\015\006\011
\052\206\110\206\367\015\001\001\013\005\000\003\202\001\001\000
\127\303\172\066\202\234\215\230\342\253\100\252\107\217\307\247
\133\355\174\347\075\146\132\073\061\273\337\363\026\063\221\374
\174\173\245\302\246\146\343\252\260\267\047\230\077\111\327\140
\147\147\077\066\117\112\313\361\024\372\132\207\050\034\355\217
\101\062\306\225\371\175\332\275\173\133\302\260\041\343\217\106
\334\041\070\103\164\114\373\060\370\027\162\301\062\374\310\221
\027\304\314\130\067\116\013\314\132\367\041\065\050\203\154\140
\055\104\353\122\214\120\075\265\154\022\327\372\011\273\154\262
\112\261\305\211\344\374\323\122\330\141\027\376\172\224\204\217
\171\266\063\131\272\017\304\013\342\160\240\113\170\056\372\310
\237\375\257\221\145\012\170\070\025\345\227\027\024\335\371\340
\054\064\370\070\320\204\042\000\300\024\121\030\053\002\334\060
\132\360\350\001\174\065\072\043\257\010\344\257\252\216\050\102
\111\056\360\365\231\064\276\355\017\113\030\341\322\044\074\273
\135\107\267\041\362\215\321\012\231\216\343\156\076\255\160\340
\217\271\312\314\156\201\061\366\173\234\172\171\344\147\161\030
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Certification Authority of WoSign G2"
Issuer: CN=Certification Authority of WoSign G2,O=WoSign CA Limited,C=CN
Serial Number:6b:25:da:8a:88:9d:7c:bc:0f:05:b3:b1:7a:61:45:44
Subject: CN=Certification Authority of WoSign G2,O=WoSign CA Limited,C=CN
Not Valid
Before: Sat Nov 08 00:58:58 2014
Not Valid After: Tue Nov 08 00:58:58 2044
Fingerprint (MD5): c8:1c:7d:19:aa:cb:71:93:f2:50:f8:52:a8:1e:ba:60
Fingerprint (SHA1): fb:ed:dc:90:65:b7:27:20:37:bc:55:0c:9c:56:de:bb:f2:78:94:e1
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certification Authority of WoSign G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\373\355\334\220\145\267\047\040\067\274\125\014\234\126\336\273
\362\170\224\341
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL

```
\310\034\175\031\252\313\161\223\362\120\370\122\250\036\272\140
END
CKA_ISSUER MULTILINE_OCTAL
\060\130\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\032\060\030\006\003\125\004\012\023\021\127\157\123\151\147\156
\040\103\101\040\114\151\155\151\164\145\144\061\055\060\053\006
\003\125\004\003\023\044\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\040\157\146
\040\127\157\123\151\147\156\040\107\062
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\153\045\332\212\210\235\174\274\017\005\263\261\172\141
\105\104
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "CA WoSign ECC Root"
# Issuer: CN=CA WoSign ECC Root,O=WoSign CA Limited,C=CN
# Serial Number:68:4a:58:70:80:6b:f0:8f:02:fa:f6:de:e8:b0:90:90
# Subject: CN=CA WoSign ECC Root,O=WoSign CA Limited,C=CN
# Not Valid Before: Sat Nov 08 00:58:58 2014
# Not Valid After: Tue Nov 08 00:58:58 2044
# Fingerprint (MD5): 80:c6:53:ee:61:82:28:72:f0:ff:21:b9:17:ca:b2:20
# Fingerprint (SHA1): d2:7a:d2:be:ed:94:c0:a1:3c:c7:25:21:ea:5d:71:be:81:19:f3:2b
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL
 UTF8 "CA WoSign ECC Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\106\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\032\060\030\006\003\125\004\012\023\021\127\157\123\151\147\156
\040\103\101\040\114\151\155\151\164\145\144\061\033\060\031\006
\003\125\004\003\023\022\103\101\040\127\157\123\151\147\156\040
\105\103\103\040\122\157\157\164
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\106\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\032\060\030\006\003\125\004\012\023\021\127\157\123\151\147\156
\040\103\101\040\114\151\155\151\164\145\144\061\033\060\031\006
```

\003\125\004\003\023\022\103\101\040\127\157\123\151\147\156\040
\105\103\103\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\150\112\130\160\200\153\360\217\002\372\366\336\350\260
\220\220
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\011\060\202\001\217\240\003\002\001\002\002\020\150
\112\130\160\200\153\360\217\002\372\366\336\350\260\220\220\060
\012\006\010\052\206\110\316\075\004\003\003\060\106\061\013\060
\011\006\003\125\004\006\023\002\103\116\061\032\060\030\006\003
\125\004\012\023\021\127\157\123\151\147\156\040\103\101\040\114
\151\155\151\164\145\144\061\033\060\031\006\003\125\004\003\023
\022\103\101\040\127\157\123\151\147\156\040\105\103\103\040\122
\157\157\164\060\036\027\015\061\064\061\061\060\070\060\060\065
\070\065\070\132\027\015\064\064\061\061\060\070\060\060\065\070
\065\070\132\060\106\061\013\060\011\006\003\125\004\006\023\002
\103\116\061\032\060\030\006\003\125\004\012\023\021\127\157\123
\151\147\156\040\103\101\040\114\151\155\151\164\145\144\061\033
\060\031\006\003\125\004\003\023\022\103\101\040\127\157\123\151
\147\156\040\105\103\103\040\122\157\157\164\060\166\060\020\006
\007\052\206\110\316\075\002\001\006\005\053\201\004\000\042\003
\142\000\004\341\375\216\270\103\044\253\226\173\205\302\272\013
\255\215\340\072\343\044\271\322\261\276\210\072\312\277\112\270
\371\357\054\057\257\121\120\074\107\165\154\370\224\267\233\374
\050\036\305\124\314\143\235\026\113\123\301\347\040\253\315\254
\045\322\177\217\302\301\132\202\136\060\213\172\124\316\003\265
\221\177\252\224\320\321\212\110\314\202\005\046\241\325\121\022
\326\173\066\243\102\060\100\060\016\006\003\125\035\017\001\001
\377\004\004\003\002\001\006\060\017\006\003\125\035\023\001\001
\377\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004
\026\004\024\252\375\325\132\243\366\207\213\062\205\375\321\062
\133\200\105\223\363\003\270\060\012\006\010\052\206\110\316\075
\004\003\003\003\150\000\060\145\002\061\000\344\244\204\260\201
\325\075\260\164\254\224\244\350\016\075\000\164\114\241\227\153
\371\015\121\074\241\331\073\364\015\253\251\237\276\116\162\312
\205\324\331\354\265\062\105\030\157\253\255\002\060\175\307\367
\151\143\057\241\341\230\357\023\020\321\171\077\321\376\352\073
\177\336\126\364\220\261\025\021\330\262\042\025\320\057\303\046
\056\153\361\221\262\220\145\364\232\346\220\356\112
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate

```
# Trust for "CA WoSign ECC Root"
# Issuer: CN=CA WoSign ECC Root,O=WoSign CA Limited,C=CN
# Serial Number:68:4a:58:70:80:6b:f0:8f:02:fa:f6:de:e8:b0:90:90
# Subject: CN=CA WoSign ECC Root,O=WoSign CA Limited,C=CN
# Not Valid Before: Sat Nov 08 00:58:58 2014
# Not Valid After: Tue Nov 08 00:58:58 2044
# Fingerprint (MD5): 80:c6:53:ee:61:82:28:72:f0:ff:21:b9:17:ca:b2:20
# Fingerprint (SHA1): d2:7a:d2:be:ed:94:c0:a1:3c:c7:25:21:ea:5d:71:be:81:19:f3:2b
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CA WoSign ECC Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\322\172\322\276\355\224\300\241\074\307\045\041\352\135\161\276
\201\031\363\053
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\200\306\123\356\141\202\050\162\360\377\041\271\027\312\262\040
END
CKA_ISSUER
 MULTILINE_OCTAL
\060\106\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\032\060\030\006\003\125\004\012\023\021\127\157\123\151\147\156
\040\103\101\040\114\151\155\151\164\145\144\061\033\060\031\006
\003\125\004\003\023\022\103\101\040\127\157\123\151\147\156\040
\105\103\103\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\150\112\130\160\200\153\360\217\002\372\366\336\350\260
\220\220
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "CCA India 2015 SPL"
# Issuer: CN=CCA India 2015 SPL,O=India PKI,C=IN
# Serial Number: 10165 (0x27b5)
# Subject: CN=CCA India 2015 SPL,O=India PKI,C=IN
# Not Valid Before: Thu Jan 29 11:36:43 2015
# Not Valid After: Wed Jan 29 11:36:43 2025
#
 Fingerprint (MD5): 16:da:3e:ac:1d:0a:57:a9:b4:e2:de:d0:93:96:dc:d4
# Fingerprint (SHA1): 3b:c6:dc:e0:03:07:bd:67:60:41:eb:d8:59:70:c6:2f:8f:da:51:09
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
```

CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CCA India 2015 SPL"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\076\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\022\060\020\006\003\125\004\012\023\011\111\156\144\151\141\040
\120\113\111\061\033\060\031\006\003\125\004\003\023\022\103\103
\101\040\111\156\144\151\141\040\062\060\061\065\040\123\120\114
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\076\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\022\060\020\006\003\125\004\012\023\011\111\156\144\151\141\040
\120\113\111\061\033\060\031\006\003\125\004\003\023\022\103\103
\101\040\111\156\144\151\141\040\062\060\061\065\040\123\120\114
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\047\265
END
CKA_VALUE
MULTILINE_OCTAL
\060\202\003\053\060\202\002\023\240\003\002\001\002\002\002\047
\265\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000
\060\076\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\022\060\020\006\003\125\004\012\023\011\111\156\144\151\141\040
\120\113\111\061\033\060\031\006\003\125\004\003\023\022\103\103
\101\040\111\156\144\151\141\040\062\060\061\065\040\123\120\114
\060\036\027\015\061\065\060\061\062\071\061\061\063\066\064\063
\132\027\015\062\065\060\061\062\071\061\061\063\066\064\063\132
\060\076\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\022\060\020\006\003\125\004\012\023\011\111\156\144\151\141\040
\120\113\111\061\033\060\031\006\003\125\004\003\023\022\103\103
\101\040\111\156\144\151\141\040\062\060\061\065\040\123\120\114
\060\202\001\042\060\015\006\011\052\206\110\206\367\015\001\001
\001\005\000\003\202\001\017\000\060\202\001\012\002\202\001\001
\000\227\327\066\211\075\067\101\016\221\077\153\040\137\374\072
\176\073\132\135\057\303\014\207\123\074\030\242\310\141\163\015
\010\016\126\036\322\156\140\245\127\145\334\376\317\120\206\017
\132\116\253\142\213\004\312\126\357\341\321\236\256\164\255\252
\372\077\101\130\321\125\160\160\076\105\311\033\200\163\374\010
\210\344\213\162\250\012\265\051\127\260\255\012\221\101\032\234
\137\120\175\254\027\032\045\133\041\360\225\053\347\337\067\254
\064\363\007\260\361\035\301\023\357\173\056\072\305\251\141\220
\262\170\137\124\120\074\263\132\125\143\266\313\020\243\157\373
\015\364\266\357\346\010\336\242\020\277\166\227\177\352\331\226
\321\324\303\163\002\161\264\251\260\254\254\037\027\040\245\107

\106\326\104\002\070\231\276\313\024\170\376\346\137\304\177\335
\157\351\252\107\024\220\021\330\035\200\300\025\324\214\240\231
\343\031\016\012\017\314\032\010\234\324\123\007\000\340\037\111
\277\202\202\114\317\233\330\156\323\324\021\000\022\154\017\175
\140\147\112\214\120\333\362\057\340\271\171\207\203\303\134\302
\071\002\003\001\000\001\243\063\060\061\060\017\006\003\125\035
\023\001\001\377\004\005\060\003\001\001\377\060\021\006\003\125
\035\016\004\012\004\010\114\021\160\252\217\335\037\007\060\013
\006\003\125\035\017\004\004\003\002\001\006\060\015\006\011\052
\206\110\206\367\015\001\001\013\005\000\003\202\001\001\000\055
\274\214\025\312\064\355\114\050\042\273\341\123\045\113\072\227
\251\355\046\242\244\253\115\373\012\022\156\347\065\346\147\016
\030\201\142\066\245\314\302\337\032\345\150\001\201\116\263\231
\324\107\025\022\235\166\351\241\246\023\035\260\377\175\273\127
\343\357\131\233\310\073\120\151\306\143\072\254\240\301\345\220
\350\144\051\134\110\101\151\067\254\073\273\335\343\125\306\327
\222\015\225\203\260\050\127\302\243\251\226\247\312\336\114\036
\232\377\076\245\056\047\136\333\146\147\047\205\357\253\212\134
\163\174\210\315\107\146\360\235\203\314\204\217\342\051\364\037
\101\157\267\365\041\015\365\224\126\121\343\374\377\023\130\267
\237\003\356\051\237\322\001\260\142\236\224\275\031\206\132\103
\372\152\211\201\260\352\134\030\207\312\200\225\373\355\001\277
\021\032\337\225\024\256\056\342\257\315\221\220\272\263\047\303
\157\020\330\331\016\264\245\164\154\201\267\137\031\314\376\047
\116\263\105\230\130\030\234\127\304\222\162\022\317\247\202\071
\325\341\020\227\012\206\060\105\205\143\250\153\115\232\374
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "CCA India 2015 SPL"
Issuer: CN=CCA India 2015 SPL,O=India PKI,C=IN
Serial Number: 10165 (0x27b5)
Subject: CN=CCA India 2015 SPL,O=India PKI,C=IN
Not Valid Before: Thu Jan 29 11:36:43 2015
Not Valid After: Wed Jan 29 11:36:43 2025
Fingerprint (MD5): 16:da:3e:ac:1d:0a:57:a9:b4:e2:de:d0:93:96:dc:d4
Fingerprint (SHA1): 3b:c6:dc:e0:03:07:bd:67:60:41:eb:d8:59:70:c6:2f:8f:da:51:09
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN
 CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CCA India 2015 SPL"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL

```
\073\306\334\340\003\007\275\147\140\101\353\330\131\160\306\057
\217\332\121\011
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\026\332\076\254\035\012\127\251\264\342\336\320\223\226\334\324
END
CKA_ISSUER MULTILINE_OCTAL
\060\076\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\022\060\020\006\003\125\004\012\023\011\111\156\144\151\141\040
\120\113\111\061\033\060\031\006\003\125\004\003\023\022\103\103
\101\040\111\156\144\151\141\040\062\060\061\065\040\123\120\114
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\047\265
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Swedish Government Root Authority
 v3"
# Issuer: CN=Swedish Government Root Authority v3,O=Swedish Social Insurance Agency,C=SE
# Serial Number:32:69:a2:bf:40:6b:8d:b4:47:83:64:3c:8b:0d:c9:43
# Subject: CN=Swedish Government Root Authority v3,O=Swedish Social Insurance Agency,C=SE
# Not Valid Before: Tue Sep 29 11:32:32 2015
# Not Valid After: Sat Sep 29 11:42:09 2040
# Fingerprint (MD5): 63:e2:fd:ea:a2:55:6a:70:54:fb:3a:22:e3:34:b1:17
# Fingerprint (SHA1): 74:6f:88:f9:ac:16:3c:53:00:9e:ef:92:0c:40:67:75:6a:15:71:7e
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Swedish Government Root Authority v3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\146\061\013\060\011\006\003\125\004\006\023\002\123\105\061
\050\060\046\006\003\125\004\012\023\037\123\167\145\144\151\163
\150\040\123\157\143\151\141\154\040\111\156\163\165\162\141\156
\143\145\040\101\147\145\156\143\171\061\055\060\053\006\003\125
\004\003\023\044\123\167\145\144\151\163\150\040\107\157\166\145
\162\156\155\145\156\164\040\122\157\157\164\040\101\165\164\150
\157\162\151\164\171\040\166\063
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
```

\060\146\061\013\060\011\006\003\125\004\006\023\002\123\105\061
\050\060\046\006\003\125\004\012\023\037\123\167\145\144\151\163
\150\040\123\157\143\151\141\154\040\111\156\163\165\162\141\156
\143\145\040\101\147\145\156\143\171\061\055\060\053\006\003\125
\004\003\023\044\123\167\145\144\151\163\150\040\107\157\166\145
\162\156\155\145\156\164\040\122\157\157\164\040\101\165\164\150
\157\162\151\164\171\040\166\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\062\151\242\277\100\153\215\264\107\203\144\074\213\015
\311\103
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\252\060\202\003\222\240\003\002\001\002\002\020\062
\151\242\277\100\153\215\264\107\203\144\074\213\015\311\103\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\146
\061\013\060\011\006\003\125\004\006\023\002\123\105\061\050\060
\046\006\003\125\004\012\023\037\123\167\145\144\151\163\150\040
\123\157\143\151\141\154\040\111\156\163\165\162\141\156\143\145
\040\101\147\145\156\143\171\061\055\060\053\006\003\125\004\003
\023\044\123\167\145\144\151\163\150\040\107\157\166\145\162\156
\155\145\156\164\040\122\157\157\164\040\101\165\164\150\157\162
\151\164\171\040\166\063\060\036\027\015\061\065\060\071\062\071
\061\061\063\062\063\062\132\027\015\064\060\060\071\062\071\061
\061\064\062\060\071\132\060\146\061\013\060\011\006\003\125\004
\006\023\002\123\105\061\050\060\046\006\003\125\004\012\023\037
\123\167\145\144\151\163\150\040\123\157\143\151\141\154\040\111
\156\163\165\162\141\156\143\145\040\101\147\145\156\143\171\061
\055\060\053\006\003\125\004\003\023\044\123\167\145\144\151\163
\150\040\107\157\166\145\162\156\155\145\156\164\040\122\157\157
\164\040\101\165\164\150\157\162\151\164\171\040\166\063\060\202
\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005
\000\003\202\002\017\000\060\202\002\012\002\202\002\001\000\272
\036\242\151\033\150\117\134\217\272\364\043\307\136\146\005\170
\205\066\130\243\242\177\147\357\242\014\026\222\244\112\213\340
\240\222\207\125\067\013\304\321\304\320\100\103\227\062\120\117
\354\225\107\267\077\257\103\005\345\204\227\011\357\126\124\347
\103\063\107\375\255\361\072\233\230\244\341\344\121\243\271\254
\214\013\356\045\006\011\362\323\272\065\147\141\214\302\275\046
\313\327\143\314\327\203\063\331\114\342\357\371\033\237\250\313
\015\166\001\055\162\311\042\273\150\221\336\220\017\073\075\264
\102\275\031\175\237\204\134\074\176\102\067\206\261\140\302\110
\207\122\116\134\127\376\316\222\256\312\076\126\267\263\236\225
\232\224\370\057\241\320\242\056\302\124\132\154\314\314\326\255
\113\107\320\056\207\202\063\250\173\120\071\247\052\054\261\133
\047\012\237\255\365\024\353\374\215\123\262\163\053\124\043\364
\214\227\231\227\373\065\334\314\265\372\063\024\046\215\165\247
\044\246\350\024\056\055\246\200\050\203\232\077\270\312\073\307

\365\030\340\375\354\216\171\373\252\102\154\112\113\026\176\363
\202\003\156\272\347\021\006\245\237\204\053\322\140\155\351\106
\356\101\132\226\271\024\375\034\077\206\022\361\124\046\046\375
\147\200\057\345\250\055\050\056\103\267\144\302\357\344\267\176
\226\334\204\213\047\331\166\075\230\201\123\024\334\102\105\241
\124\147\371\332\030\146\220\012\264\107\220\074\001\345\053\243
\146\357\157\373\062\203\361\063\175\062\041\154\245\105\025\077
\057\363\125\221\110\223\237\045\317\055\074\071\073\122\015\032
\257\307\337\253\157\200\330\220\313\236\161\162\152\102\151\223
\352\222\000\075\111\004\331\243\134\272\105\373\002\020\377\255
\151\164\122\245\070\143\232\146\210\004\262\021\272\023\252\071
\325\203\137\355\145\133\123\310\235\134\262\205\240\170\160\065
\115\134\044\020\244\366\061\052\222\125\101\331\363\027\154\231
\023\130\372\335\050\320\154\023\275\133\207\215\223\203\255\130
\051\126\025\264\130\047\112\233\021\154\240\246\147\105\072\316
\320\330\316\377\220\063\354\132\061\115\017\122\022\373\255\366
\141\137\344\057\157\015\146\060\345\240\117\317\317\375\137\002
\003\001\000\001\243\124\060\122\060\016\006\003\125\035\017\001
\001\377\004\004\003\002\001\006\060\017\006\003\125\035\023\001
\001\377\004\005\060\003\001\001\377\060\035\006\003\125\035\016
\004\026\004\024\234\274\001\347\253\144\065\365\061\233\215\265
\373\027\231\210\002\313\233\362\060\020\006\011\053\006\001\004
\001\202\067\025\001\004\003\002\001\000\060\015\006\011\052\206
\110\206\367\015\001\001\013\005\000\003\202\002\001\000\207\253
\152\344\347\153\044\122\075\366\042\203\117\123\004\105\062\234
\141\132\026\134\234\104\265\243\321\226\320\100\376\317\146\025
\136\176\100\000\040\025\375\247\252\144\332\247\141\146\150\302
\335\122\161\045\240\152\271\335\300\315\316\206\010\324\074\065
\021\057\175\364\157\322\332\014\227\003\145\227\203\264\076\072
\313\011\164\215\353\005\312\172\351\200\260\267\121\055\042\223
\343\232\031\356\355\227\010\041\203\255\307\012\221\137\304\312
\333\136\257\270\347\214\272\072\111\322\125\003\065\031\031\120
\112\342\206\247\273\170\075\225\375\261\037\106\362\117\146\362
\373\277\205\144\266\012\043\030\222\011\236\111\105\061\266\326
\024\127\236\374\211\105\164\177\071\314\300\152\150\310\317\107
\320\341\036\307\323\057\055\371\054\044\073\374\152\272\224\023
\336\314\162\362\242\035\313\037\237\325\203\167\046\136\176\233
\240\257\151\237\170\333\245\301\156\161\134\110\102\116\053\330
\170\270\325\017\245\077\154\313\217\220\315\107\330\220\031\111
\205\326\154\374\342\253\252\102\277\313\023\227\277\151\104\165
\143\065\055\332\240\307\375\141\367\312\101\075\124\234\364\066
\300\344\156\041\110\237\135\161\142\201\323\362\045\346\131\214
\131\101\046\110\247\343\353\147\152\323\354\064\267\230\367\314
\312\243\066\006\225\347\310\060\131\367\377\311\241\321\344\171
\274\337\023\037\056\331\263\165\321\004\267\043\011\041\314\035
\041\034\047\234\016\053\372\301\207\030\311\372\371\111\203\214
\022\026\373\305\022\316\073\017\102\372\360\005\145\176\250\307
\353\122\112\371\230\136\161\243\254\022\307\050\161\032\132\165

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\317\207\312\037\067\050\034\024\235\220\120\157\306\277\112\314
\307\045\317\061\335\133\221\116\166\250\021\325\166\146\331\277
\200\163\142\260\354\303\376\104\274\315\131\023\013\014\055\330
\241\314\252\142\115\124\105\136\244\122\243\214\127\074\024\061
\223\124\316\245\026\124\136\055\102\263\356\145\251\266\235\077
\154\316\141\331\126\313\336\352\240\126\336\155\206\003\372\267
\201\152\214\322\330\363\327\266\300\254\051\204\131\043\016\233
\227\152\346\240\316\325\052\124\030\357\120\230\171\040
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Trust for "Swedish Government Root Authority v3"
# Issuer: CN=Swedish Government Root Authority v3,O=Swedish Social
 Insurance Agency,C=SE
# Serial Number:32:69:a2:bf:40:6b:8d:b4:47:83:64:3c:8b:0d:c9:43
# Subject: CN=Swedish Government Root Authority v3,O=Swedish Social Insurance Agency,C=SE
# Not Valid Before: Tue Sep 29 11:32:32 2015
# Not Valid After: Sat Sep 29 11:42:09 2040
# Fingerprint (MD5): 63:e2:fd:ea:a2:55:6a:70:54:fb:3a:22:e3:34:b1:17
# Fingerprint (SHA1): 74:6f:88:f9:ac:16:3c:53:00:9e:ef:92:0c:40:67:75:6a:15:71:7e
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Swedish Government Root Authority v3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\164\157\210\371\254\026\074\123\000\236\357\222\014\100\147\165
\152\025\161\176
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\143\342\375\352\242\125\152\160\124\373\072\042\343\064\261\027
END
CKA_ISSUER MULTILINE_OCTAL
\060\146\061\013\060\011\006\003\125\004\006\023\002\123\105\061
\050\060\046\006\003\125\004\012\023\037\123\167\145\144\151\163
\150\040\123\157\143\151\141\154\040\111\156\163\165\162\141\156
\143\145\040\101\147\145\156\143\171\061\055\060\053\006\003\125
\004\003\023\044\123\167\145\144\151\163\150\040\107\157\166\145
\162\156\155\145\156\164\040\122\157\157\164\040\101\165\164\150
\157\162\151\164\171\040\166\063
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\062\151\242\277\100\153\215\264\107\203\144\074\213\015
```

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\311\103
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Swedish Government Root Authority v2"
# Issuer: CN=Swedish Government Root Authority v2,O=Swedish Social Insurance Agency,C=SE
# Serial Number:54:12:15:9f:ab:8a:75:93:44:94:ca:77:40:56:2e:ef
# Subject: CN=Swedish Government Root Authority v2,O=Swedish Social Insurance Agency,C=SE
# Not Valid Before: Tue May 05 11:15:23 2015
#
 Not Valid After: Sat May 05 11:24:19 2040
# Fingerprint (MD5): 33:85:e1:95:66:4b:83:50:73:42:c2:e0:da:a0:40:92
# Fingerprint (SHA1): 32:f4:42:09:3b:36:d7:03:1b:75:ca:4d:ad:dc:b3:27:fa:a0:2b:9c
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Swedish Government Root Authority v2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\146\061\013\060\011\006\003\125\004\006\023\002\123\105\061
\050\060\046\006\003\125\004\012\023\037\123\167\145\144\151\163
\150\040\123\157\143\151\141\154\040\111\156\163\165\162\141\156
\143\145\040\101\147\145\156\143\171\061\055\060\053\006\003\125
\004\003\023\044\123\167\145\144\151\163\150\040\107\157\166\145
\162\156\155\145\156\164\040\122\157\157\164\040\101\165\164\150
\157\162\151\164\171\040\166\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\146\061\013\060\011\006\003\125\004\006\023\002\123\105\061
\050\060\046\006\003\125\004\012\023\037\123\167\145\144\151\163
\150\040\123\157\143\151\141\154\040\111\156\163\165\162\141\156
\143\145\040\101\147\145\156\143\171\061\055\060\053\006\003\125
\004\003\023\044\123\167\145\144\151\163\150\040\107\157\166\145
\162\156\155\145\156\164\040\122\157\157\164\040\101\165\164\150
\157\162\151\164\171\040\166\062
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\124\022\025\237\253\212\165\223\104\224\312\167\100\126
\056\357
END
CKA_VALUE MULTILINE_OCTAL
```

\060\202\006\013\060\202\003\363\240\003\002\001\002\002\020\124
\022\025\237\253\212\165\223\104\224\312\167\100\126\056\357\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\146
\061\013\060\011\006\003\125\004\006\023\002\123\105\061\050\060
\046\006\003\125\004\012\023\037\123\167\145\144\151\163\150\040
\123\157\143\151\141\154\040\111\156\163\165\162\141\156\143\145
\040\101\147\145\156\143\171\061\055\060\053\006\003\125\004\003
\023\044\123\167\145\144\151\163\150\040\107\157\166\145\162\156
\155\145\156\164\040\122\157\157\164\040\101\165\164\150\157\162
\151\164\171\040\166\062\060\036\027\015\061\065\060\065\060\065
\061\061\061\065\062\063\132\027\015\064\060\060\065\060\065\061
\061\062\064\061\071\132\060\146\061\013\060\011\006\003\125\004
\006\023\002\123\105\061\050\060\046\006\003\125\004\012\023\037
\123\167\145\144\151\163\150\040\123\157\143\151\141\154\040\111
\156\163\165\162\141\156\143\145\040\101\147\145\156\143\171\061
\055\060\053\006\003\125\004\003\023\044\123\167\145\144\151\163
\150\040\107\157\166\145\162\156\155\145\156\164\040\122\157\157
\164\040\101\165\164\150\157\162\151\164\171\040\166\062\060\202
\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005
\000\003\202\002\017\000\060\202\002\012\002\202\002\001\000\310
\256\265\103\274\102\105\113\065\143\077\002\113\305\377\333\066
\327\047\305\302\256\105\146\243\161\207\026\115\211\117\141\224
\340\126\106\270\320\104\023\346\163\220\360\141\170\101\212\340
\032\176\067\254\002\051\276\350\377\002\046\306\032\174\012\261
\217\144\051\242\332\007\212\325\044\205\150\031\222\062\337\237
\051\140\130\155\052\205\200\021\066\311\266\302\323\236\204\014
\272\121\021\314\124\351\253\006\060\022\217\040\167\005\300\306
\215\232\233\131\310\266\205\350\160\007\002\261\036\377\327\151
\317\026\106\213\141\057\102\315\122\246\330\016\172\057\207\055
\306\057\074\042\103\261\223\176\303\026\166\331\314\327\213\354
\021\033\320\311\161\024\302\211\111\176\361\244\020\252\065\074
\250\033\273\377\354\062\100\345\275\052\363\246\001\023\310\214
\227\031\220\316\143\371\260\153\175\367\371\212\316\156\340\205
\347\333\224\325\172\040\045\240\065\360\251\367\257\132\050\132
\014\310\363\164\071\213\061\073\042\314\111\045\311\157\270\134
\172\056\054\226\343\057\243\076\312\171\167\151\221\132\370\360
\305\123\067\116\123\155\111\047\126\142\312\345\371\163\140\251
\027\073\133\242\045\257\055\173\311\267\333\317\031\021\072\063
\161\071\131\132\003\351\347\054\014\377\155\234\162\143\143\200
\005\130\123\206\334\050\165\026\302\345\360\023\131\241\201\377
\005\014\231\250\266\074\154\056\305\016\000\230\201\351\203\167
\146\103\073\132\216\205\105\114\262\317\271\075\344\234\066\223
\100\172\123\025\051\324\021\220\272\241\140\212\235\253\364\112
\112\152\335\207\252\301\355\005\332\236\133\126\341\210\117\052
\153\225\050\206\146\120\241\357\332\112\262\220\012\066\067\111
\205\227\102\170\007\147\346\233\040\241\014\154\311\317\317\376
\167\225\204\132\172\073\027\260\357\114\367\055\221\252\317\031
\157\306\371\022\050\347\036\012\246\226\315\041\260\003\142\120

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\005\270\267\003\053\013\254\164\165\123\044\341\166\270\117\045
\166\135\357\321\232\363\156\112\270\174\113\370\212\300\031\002
\003\001\000\001\243\201\264\060\201\261\060\016\006\003\125\035
\017\001\001\377\004\004\003\002\001\006\060\022\006\003\125\035
\023\001\001\377\004\010\060\006\001\001\377\002\001\001\060\035
\006\003\125\035\016\004\026\004\024\143\153\102\140\123\127\021
\273\310\044\211\045\002\146\104\164\241\015\045\156\060\020\006
\011\053\006\001\004\001\202\067\025\001\004\003\002\001\000\060
\021\006\003\125\035\040\004\012\060\010\060\006\006\004\125\035
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\006\001\005\005\007\003\001\006\010\053\006\001\005\005\007\003
\002\006\010\053\006\001\005\005\007\003\004\006\012\053\006\001
\004\001\202\067\012\003\014\006\010\053\006\001\005\005\007\003
\003\006\010\053\006\001\005\005\007\003\010\060\015\006\011\052
\206\110\206\367\015\001\001\013\005\000\003\202\002\001\000\043
\056\252\205\227\113\244\134\020\257\332\370\075\275\223\130\057
\170\373\031\167\003\071\026\107\111\162\125\314\207\350\275\244
\177\322\253\044\254\347\324\120\356\235\330\203\306\231\040\373
\026\057\210\306\027\067\312\213\036\253\320\342\154\007\130\270
\144\221\241\020\241\151\067\165\136\376\332\163\024\346\212\153
\276\302\140\041\057\300\371\243\004\110\066\133\067\276\332\154
\375\351\226\216\236\361\123\174\217\145\104\247\125\175\013\224
\116\124\366\377\062\275\057\175\234\245\136\102\304\114\051\343
\020\144\057\346\317\132\073\064\125\050\141\321\047\022\273\156
\124\233\201\130\254\325\136\235\127\003\240\115\321\377\067\164
\246\215\363\371\225\375\052\211\165\172\171\067\375\046\171\057
\047\163\177\251\031\040\345\320\137\230\350\226\005\217\230\171
\351\171\020\101\051\001\103\365\151\067\314\120\020\150\265\330
\104\116\016\362\231\343\047\054\152\216\137\273\175\273\153\161
\113\006\212\335\052\330\012\077\133\310\162\056\130\141\012\017
\201\150\036\107\307\351\055\272\357\215\334\016\243\043\303\262
\055\265\107\261\213\264\076\047\110\347\334\010\142\014\124\376
\103\327\225\112\277\007\057\112\100\176\006\245\121\207\046\211
\005\335\074\312\117\376\034\047\351\333\210\036\300\262\376\343
\357\037\176\261\350\131\225\240\117\253\012\211\000\340\163\262
\347\034\301\027\120\200\207\114\322\103\031\131\225\322\133\024
\133\012\133\300\174\211\161\172\265\012\300\212\105\057\356\304
\300\376\124\055\347\225\044\167\005\056\356\164\306\240\220\261
\163\334\102\326\240\165\311\130\131\005\242\336\021\277\131\351
\015\247\046\302\156\300\106\212\306\036\323\365\352\017\175\075
\162\315\031\225\114\272\340\150\227\215\130\300\152\357\171\367
\262\150\152\270\162\066\303\044\014\350\062\355\275\361\237\310
\357\336\165\322\333\166\251\224\047\070\364\001\141\277\146\070
\217\152\075\334\000\133\263\374\104\337\003\113\371\361\166\045
\065\377\122\037\010\035\320\245\024\351\213\006\053\170\203\054
\161\134\117\221\207\143\326\014\016\005\210\074\224\240\261\132

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\124\026\337\335\121\303\250\066\056\054\202\174\271\232\260
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Trust for "Swedish
 Government Root Authority v2"
# Issuer: CN=Swedish Government Root Authority v2,O=Swedish Social Insurance Agency,C=SE
# Serial Number:54:12:15:9f:ab:8a:75:93:44:94:ca:77:40:56:2e:ef
# Subject: CN=Swedish Government Root Authority v2,O=Swedish Social Insurance Agency,C=SE
# Not Valid Before: Tue May 05 11:15:23 2015
# Not Valid After: Sat May 05 11:24:19 2040
# Fingerprint (MD5): 33:85:e1:95:66:4b:83:50:73:42:c2:e0:da:a0:40:92
# Fingerprint (SHA1): 32:f4:42:09:3b:36:d7:03:1b:75:ca:4d:ad:dc:b3:27:fa:a0:2b:9c
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Swedish Government Root Authority v2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\062\364\102\011\073\066\327\003\033\165\312\115\255\334\263\047
\372\240\053\234
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\063\205\341\225\146\113\203\120\163\102\302\340\332\240\100\222
END
CKA_ISSUER MULTILINE_OCTAL
\060\146\061\013\060\011\006\003\125\004\006\023\002\123\105\061
\050\060\046\006\003\125\004\012\023\037\123\167\145\144\151\163
\150\040\123\157\143\151\141\154\040\111\156\163\165\162\141\156
\143\145\040\101\147\145\156\143\171\061\055\060\053\006\003\125
\004\003\023\044\123\167\145\144\151\163\150\040\107\157\166\145
\162\156\155\145\156\164\040\122\157\157\164\040\101\165\164\150
\157\162\151\164\171\040\166\062
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\124\022\025\237\253\212\165\223\104\224\312\167\100\126
\056\357
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
```

```
# Microsoft Code Signing Only Certificate
# Certificate "Tunisian Root Certificate Authority - TunRootCA2"
# Issuer: O=National Digital Certification Agency,CN=Tunisian Root Certificate Authority - TunRootCA2,C=TN
# Serial Number:21:66:15:05:05:27:05:05:bc:8a:b0:1d:af:0a:be:c4
# Subject:
 O=National Digital Certification Agency,CN=Tunisian Root Certificate Authority - TunRootCA2,C=TN
# Not Valid Before: Tue May 05 08:57:01 2015
# Not Valid After: Wed May 05 08:57:01 2027
# Fingerprint (MD5): 03:d1:25:b1:f0:55:ad:ca:dd:7c:59:93:50:ef:17:21
# Fingerprint (SHA1): 96:38:63:3c:90:56:ae:88:14:a0:65:d2:3b:dc:60:a0:ee:70:2f:a7
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Tunisian Root Certificate Authority - TunRootCA2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\170\061\013\060\011\006\003\125\004\006\023\002\124\116\061
\071\060\067\006\003\125\004\003\023\060\124\165\156\151\163\151
\141\156\040\122\157\157\164\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171\040\055\040
\124\165\156\122\157\157\164\103\101\062\061\056\060\054\006\003
\125\004\012\023\045\116\141\164\151\157\156\141\154\040\104\151
\147\151\164\141\154\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\147\145\156\143\171
END
CKA_ID
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\071\060\067\006\003\125\004\003\023\060\124\165\156\151\163\151
\141\156\040\122\157\157\164\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171\040\055\040
\124\165\156\122\157\157\164\103\101\062\061\056\060\054\006\003
\125\004\012\023\045\116\141\164\151\157\156\141\154\040\104\151
\147\151\164\141\154\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\147\145\156\143\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\041\146\025\005\005\047\005\005\274\212\260\035\257\012
\276\304
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\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\170
\061\013\060\011\006\003\125\004\006\023\002\124\116\061\071\060
\067\006\003\125\004\003\023\060\124\165\156\151\163\151\141\156
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\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164
\145\040\101\165\164\150\157\162\151\164\171\040\055\040\124\165
\156\122\157\157\164\103\101\062\061\056\060\054\006\003\125\004
\012\023\045\116\141\164\151\157\156\141\154\040\104\151\147\151
\164\141\154\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\147\145\156\143\171\060\036\027\015\061\065\060\065
\060\065\060\070\065\067\060\061\132\027\015\062\067\060\065\060
\065\060\070\065\067\060\061\132\060\170\061\013\060\011\006\003
\125\004\006\023\002\124\116\061\071\060\067\006\003\125\004\003
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\157\162\151\164\171\040\055\040\124\165\156\122\157\157\164\103
\101\062\061\056\060\054\006\003\125\004\012\023\045\116\141\164
\151\157\156\141\154\040\104\151\147\151\164\141\154\040\103\145
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\143\171\060\202\002\042\060\015\006\011\052\206\110\206\367\015
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\156\014\251\047\124\036\353\251\044\253\147\217\217\234\141\017
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\236\362\037\136\155\043\135\263\130\037\215\241\300\155\165\205
\012\260\023\116\133\126\106\213\071\275\013\202\273\072\103\233
\010\272\106\356\371\027\353\315\310\327\343\165\023\336\256\121
\110\012\316\040\225\106\237\002\354\125\214\164\252\132\374\374
\352\011\063\065\156\243\107\006\307\335\176\204\150\016\307\022
\312\224\303\355\346\154\002\155\336\002\211\065\263\004\313\105
\370\174\107\244\323\037\337\345\134\043\342\363\042\173\271\113
\242\375\027\065\135\110\351\277\365\263\045\143\213\347\170\353
\374\165\047\275\210\134\246\205\077\101\337\225\174\335\172\106
\217\376\036\332\261\253\330\323\216\315\006\214\311\330\122\102
\021\122\242\203\217\134\203\173\344\047\266\217\037\240\136\075
\322\165\175\171\123\223\006\227\343\003\307\226\054\332\001\074
\171\305\073\120\350\260\323\241\244\342\323\203\175\104\370\020
\317\240\032\052\362\145\200\275\167\301\230\145\166\256\022\041
\142\312\072\276\276\265\231\303\133\304\321\277\233\300\012\312
\130\036\025\246\327\041\136\261\115\012\345\160\170\232\150\346
\164\146\062\024\052\036\021\276\210\367\006\366\125\243\303\037
\156\027\220\125\321\212\100\211\126\103\325\117\346\242\311\210
\144\000\005\121\077\127\264\074\266\276\152\221\161\100\361\242
\134\361\327\355\234\266\127\366\131\324\052\021\345\324\345\277
\273\036\321\310\327\137\104\005\233\273\211\072\255\247\103\167
\176\025\140\174\210\135\233\354\245\134\322\106\255\014\213\124
\105\324\224\121\125\105\122\252\134\330\021\254\370\126\042\154
\331\322\024\351\267\116\102\205\124\106\370\001\306\075\046\006
\167\350\262\065\033\360\235\102\311\177\376\200\047\001\120\313
\177\305\254\124\372\153\155\226\214\101\244\241\322\347\265\221
\110\157\167\034\213\302\053\164\376\074\134\304\135\224\316\253
\361\040\226\153\301\014\132\137\371\345\065\271\154\243\020\147

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\215\240\330\124\301\012\165\266\043\077\246\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006\003
\125\035\017\001\001\377\004\004\003\002\001\006\060\015\006\011
\052\206\110\206\367\015\001\001\013\005\000\003\202\002\001\000
\056\362\207\110\355\231\236\237\001\014\074\311\012\170\123\174
\030\065\336\266\345\154\364\000\200\341\233\213\331\372\373\252
\373\145\267\322\311\365\327\247\313\176\311\261\242\161\130\155
\131\067\326\340\063\020\312\265\331\162\333\116\045\067\252\246
\335\035\030\275\365\311\212\234\172\210\356\037\002\304\055\222
\124\175\127\342\134\031\030\043\002\172\134\111\225\266\230\347
\302\140\101\145\100\273\354\132\267\161\234\120\362\163\166\373
\137\015\357\065\317\264\151\215\205\350\114\220\027\003\013\311
\263\056\040\067\143\021\142\246\117\343\064\340\373\171\125\347
\306\302\256\102\376\260\064\154\111\043\016\162\007\173\146\005
\125\110\373\022\017\240\300\372\116\321\373\075\314\376\375\026
\113\126\120\315\021\054\247\233\367\261\012\317\246\353\357\335
\216\270\256\102\010\174\244\214\224\352\206\307\103\343\367\074
\212\337\107\322\060\100\310\055\123\365\157\021\111\314\041\214
\226\103\117\020\240\107\241\126\215\037\034\133\330\126\133\353
\064\166\341\065\072\161\324\314\041\057\236\065\050\362\132\336
\236\344\356\107\152\020\350\070\275\112\264\175\004\177\005\256
\110\012\264\003\277\056\263\012\033\237\313\255\335\115\320\207
\041\267\107\166\202\203\055\307\127\276\232\025\243\033\060\030
\154\243\072\161\157\144\107\050\222\333\021\141\040\232\167\145
\055\371\254\126\023\154\113\243\137\377\233\244\350\357\347\130
\350\173\236\073\177\152\247\276\071\012\023\224\311\110\116\146
\144\330\123\114\354\101\153\375\374\066\056\327\016\337\141\013
\173\265\100\254\335\102\111\155\236\200\277\140\225\360\351\300
\077\173\273\030\351\070\265\126\116\247\176\212\142\357\230\036
\370\170\100\251\273\330\351\345\264\264\371\343\147\234\354\123
\317\270\102\264\057\223\201\065\240\154\366\272\040\212\150\075
\367\155\377\177\323\114\367\172\224\150\003\167\103\073\065\121
\252\123\022\076\107\023\024\071\254\326\145\217\250\106\377\074
\041\364\322\277\320\110\244\176\247\121\233\227\022\365\231\064
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\103\044\012\111\177\375\016\324\220\360\253\103\041\142\234\217
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Tunisian Root Certificate

```
 Authority - TunRootCA2"
# Issuer: O=National Digital Certification Agency,CN=Tunisian Root Certificate Authority - TunRootCA2,C=TN
# Serial Number:21:66:15:05:05:27:05:05:bc:8a:b0:1d:af:0a:be:c4
# Subject: O=National Digital Certification Agency,CN=Tunisian Root Certificate Authority - TunRootCA2,C=TN
# Not Valid Before: Tue May 05 08:57:01 2015
# Not Valid After: Wed May 05 08:57:01 2027
# Fingerprint (MD5): 03:d1:25:b1:f0:55:ad:ca:dd:7c:59:93:50:ef:17:21
# Fingerprint (SHA1): 96:38:63:3c:90:56:ae:88:14:a0:65:d2:3b:dc:60:a0:ee:70:2f:a7
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Tunisian Root Certificate Authority - TunRootCA2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\226\070\143\074\220\126\256\210\024\240\145\322\073\334\140\240
\356\160\057\247
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\003\321\045\261\360\125\255\312\335\174\131\223\120\357\027\041
END
CKA_ISSUER MULTILINE_OCTAL
\060\170\061\013\060\011\006\003\125\004\006\023\002\124\116\061
\071\060\067\006\003\125\004\003\023\060\124\165\156\151\163\151
\141\156\040\122\157\157\164\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171\040\055\040
\124\165\156\122\157\157\164\103\101\062\061\056\060\054\006\003
\125\004\012\023\045\116\141\164\151\157\156\141\154\040\104\151
\147\151\164\141\154\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\147\145\156\143\171
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\041\146\025\005\005\047\005\005\274\212\260\035\257\012
\276\304
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "OpenTrust Root CA G2"
# Issuer: CN=OpenTrust Root CA G2,O=OpenTrust,C=FR
# Serial Number:11:20:a1:69:1b:bf:bd:b9:bd:52:96:8f:23:e8:48:bf:26:11
#
 Subject: CN=OpenTrust Root CA G2,O=OpenTrust,C=FR
# Not Valid Before: Mon May 26 00:00:00 2014
# Not Valid After: Fri Jan 15 00:00:00 2038
```

```
# Fingerprint (MD5): 57:24:b6:59:24:6b:ae:c8:fe:1c:0c:20:f2:c0:4e:eb
# Fingerprint (SHA1): 79:5f:88:60:c5:ab:7c:3d:92:e6:cb:f4:8d:e1:45:cd:11:ef:60:0b
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OpenTrust Root CA G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\100\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\117\160\145\156\124\162
\165\163\164\061\035\060\033\006\003\125\004\003\014\024\117\160
\145\156\124\162\165\163\164\040\122\157\157\164\040\103\101\040
\107\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\100\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\117\160\145\156\124\162
\165\163\164\061\035\060\033\006\003\125\004\003\014\024\117\160
\145\156\124\162\165\163\164\040\122\157\157\164\040\103\101\040
\107\062
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\022\021\040\241\151\033\277\275\271\275\122\226\217\043\350
\110\277\046\021
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\157\060\202\003\127\240\003\002\001\002\002\022\021
\040\241\151\033\277\275\271\275\122\226\217\043\350\110\277\046
\021\060\015\006\011\052\206\110\206\367\015\001\001\015\005\000
\060\100\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\117\160\145\156\124\162
\165\163\164\061\035\060\033\006\003\125\004\003\014\024\117\160
\145\156\124\162\165\163\164\040\122\157\157\164\040\103\101\040
\107\062\060\036\027\015\061\064\060\065\062\066\060\060\060\060
\060\060\132\027\015\063\070\060\061\061\065\060\060\060\060\060
\060\132\060\100\061\013\060\011\006\003\125\004\006\023\002\106
\122\061\022\060\020\006\003\125\004\012\014\011\117\160\145\156
\124\162\165\163\164\061\035\060\033\006\003\125\004\003\014\024
\117\160\145\156\124\162\165\163\164\040\122\157\157\164\040\103
\101\040\107\062\060\202\002\042\060\015\006\011\052\206\110\206
\367\015\001\001\001\005\000\003\202\002\017\000\060\202\002\012
\002\202\002\001\000\314\266\127\245\063\224\020\201\062\123\337
\141\176\017\166\071\317\134\302\123\165\035\111\172\226\070\335
\242\163\152\361\157\336\136\242\132\271\161\041\276\066\331\241
\374\274\356\154\250\174\064\032\161\032\350\032\330\137\016\104
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\072\112\335\340\232\260\304\202\105\263\376\311\253\134\174\076
\311\353\027\057\014\175\156\256\245\217\310\254\045\012\157\372
\325\105\230\322\065\011\366\003\103\224\376\331\277\040\225\171
\200\230\212\331\211\065\273\121\033\244\067\175\374\231\073\253
\377\277\254\015\217\103\261\231\173\026\020\176\035\157\107\304
\025\217\004\226\010\006\102\004\370\204\326\035\274\221\246\102
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\335\065\065\130\333\264\217\044\210\344\213\337\334\153\124\322
\201\053\262\316\222\113\034\037\106\372\035\330\222\313\166\147
\265\011\231\011\345\254\027\024\125\160\306\074\240\126\012\003
\263\334\142\031\337\310\265\060\177\365\074\046\165\021\275\327
\033\263\207\236\007\257\145\161\345\240\317\032\247\011\020\035
\223\211\146\133\350\074\142\062\265\265\072\156\351\205\001\213
\236\103\214\147\163\050\131\133\353\343\334\054\314\245\046\162
\142\022\264\346\234\203\104\366\121\244\342\300\172\044\127\312
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\050\133\227\031\047\222\376\172\222\124\316\223\071\012\026\207
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\104\373\277\047\050\266\060\225\135\022\050\271\225\276\217\123
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\267\366\320\131\134\211\367\302\325\265\224\164\321\325\376\033
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\202\036\317\123\177\264\353\054\333\135\366\152\175\100\044\005
\162\211\070\001\223\313\161\302\071\135\006\021\366\157\170\370
\067\015\071\204\047\002\003\001\000\001\243\143\060\141\060\016
\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060\017
\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060
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\033\375\242\371\336\016\042\267\075\063\131\154\324\336\365\225
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\040\144\226\077\137\105\135\210\265\212\332\002\240\133\105\124
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\133\276\070\103\267\050\312\213\063\252\032\045\272\045\134\051
\057\133\112\156\214\352\055\234\052\366\005\166\340\167\227\200
\210\335\147\023\157\035\150\044\213\117\267\164\201\345\364\140
\237\172\125\327\076\067\332\026\153\076\167\254\256\030\160\225
\010\171\051\003\212\376\301\073\263\077\032\017\244\073\136\037
\130\241\225\311\253\057\163\112\320\055\156\232\131\017\125\030
\170\055\074\121\246\227\213\346\273\262\160\252\114\021\336\377
\174\053\067\324\172\321\167\064\217\347\371\102\367\074\201\014
\113\122\012
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL
 CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "OpenTrust Root CA G2"
Issuer: CN=OpenTrust Root CA G2,O=OpenTrust,C=FR
Serial Number:11:20:a1:69:1b:bf:bd:b9:bd:52:96:8f:23:e8:48:bf:26:11
Subject: CN=OpenTrust Root CA G2,O=OpenTrust,C=FR
Not Valid Before: Mon May 26 00:00:00 2014
Not Valid After: Fri Jan 15 00:00:00 2038
Fingerprint (MD5): 57:24:b6:59:24:6b:ae:c8:fe:1c:0c:20:f2:c0:4e:eb
Fingerprint (SHA1): 79:5f:88:60:c5:ab:7c:3d:92:e6:cb:f4:8d:e1:45:cd:11:ef:60:0b
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OpenTrust Root CA G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\171\137\210\140\305\253\174\075\222\346\313\364\215\341\105\315
\021\357\140\013
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\127\044\266\131\044\153\256\310\376\034\014\040\362\300\116\353

```
END
CKA_ISSUER
 MULTILINE_OCTAL
\060\100\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\117\160\145\156\124\162
\165\163\164\061\035\060\033\006\003\125\004\003\014\024\117\160
\145\156\124\162\165\163\164\040\122\157\157\164\040\103\101\040
\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\022\021\040\241\151\033\277\275\271\275\122\226\217\043\350
\110\277\046\021
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "OpenTrust Root CA G3"
# Issuer: CN=OpenTrust Root CA G3,O=OpenTrust,C=FR
# Serial Number:11:20:e6:f8:4c:fc:24:b0:be:05:40:ac:da:83:1b:34:60:3f
# Subject: CN=OpenTrust Root CA G3,O=OpenTrust,C=FR
# Not Valid Before: Mon May 26 00:00:00 2014
# Not Valid After: Fri Jan 15 00:00:00 2038
# Fingerprint (MD5):
 21:37:b4:17:16:92:7b:67:46:70:a9:96:d7:a8:13:24
# Fingerprint (SHA1): 6e:26:64:f3:56:bf:34:55:bf:d1:93:3f:7c:01:de:d8:13:da:8a:a6
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OpenTrust Root CA G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\100\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\117\160\145\156\124\162
\165\163\164\061\035\060\033\006\003\125\004\003\014\024\117\160
\145\156\124\162\165\163\164\040\122\157\157\164\040\103\101\040
\107\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\100\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\117\160\145\156\124\162
\165\163\164\061\035\060\033\006\003\125\004\003\014\024\117\160
\145\156\124\162\165\163\164\040\122\157\157\164\040\103\101\040
\107\063
```

END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\022\021\040\346\370\114\374\044\260\276\005\100\254\332\203
\033\064\140\077
END
CKA_VALUE
MULTILINE_OCTAL
\060\202\002\041\060\202\001\246\240\003\002\001\002\002\022\021
\040\346\370\114\374\044\260\276\005\100\254\332\203\033\064\140
\077\060\012\006\010\052\206\110\316\075\004\003\003\060\100\061
\013\060\011\006\003\125\004\006\023\002\106\122\061\022\060\020
\006\003\125\004\012\014\011\117\160\145\156\124\162\165\163\164
\061\035\060\033\006\003\125\004\003\014\024\117\160\145\156\124
\162\165\163\164\040\122\157\157\164\040\103\101\040\107\063\060
\036\027\015\061\064\060\065\062\066\060\060\060\060\060\060\132
\027\015\063\070\060\061\061\065\060\060\060\060\060\060\132\060
\100\061\013\060\011\006\003\125\004\006\023\002\106\122\061\022
\060\020\006\003\125\004\012\014\011\117\160\145\156\124\162\165
\163\164\061\035\060\033\006\003\125\004\003\014\024\117\160\145
\156\124\162\165\163\164\040\122\157\157\164\040\103\101\040\107
\063\060\166\060\020\006\007\052\206\110\316\075\002\001\006\005
\053\201\004\000\042\003\142\000\004\112\356\130\256\115\312\146
\336\006\072\243\021\374\340\030\360\156\034\272\055\060\014\211
\331\326\356\233\163\203\251\043\025\214\057\131\212\132\335\024
\352\235\131\053\103\267\006\354\062\266\272\356\101\265\255\135
\241\205\314\352\035\024\146\243\147\176\106\342\224\363\347\266
\126\241\025\131\241\117\067\227\271\042\036\275\021\353\364\262
\037\136\303\024\232\345\331\227\231\243\143\060\141\060\016\006
\003\125\035\017\001\001\377\004\004\003\002\001\006\060\017\006
\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060\035
\006\003\125\035\016\004\026\004\024\107\167\303\024\213\142\071
\014\311\157\341\120\115\320\020\130\334\225\210\155\060\037\006
\003\125\035\043\004\030\060\026\200\024\107\167\303\024\213\142
\071\014\311\157\341\120\115\320\020\130\334\225\210\155\060\012
\006\010\052\206\110\316\075\004\003\003\003\151\000\060\146\002
\061\000\217\250\334\235\272\014\004\027\372\025\351\075\057\051
\001\227\277\201\026\063\100\223\154\374\371\355\200\160\157\252
\217\333\204\302\213\365\065\312\006\334\144\157\150\026\341\217
\221\271\002\061\000\330\113\245\313\302\320\010\154\351\030\373
\132\335\115\137\044\013\260\000\041\045\357\217\247\004\046\161
\342\174\151\345\135\232\370\101\037\073\071\223\223\235\125\352
\315\215\361\373\301
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

```
# Microsoft Code Signing Only Certificate
# Trust for "OpenTrust Root CA G3"
# Issuer: CN=OpenTrust Root CA G3,O=OpenTrust,C=FR
# Serial Number:11:20:e6:f8:4c:fc:24:b0:be:05:40:ac:da:83:1b:34:60:3f
# Subject: CN=OpenTrust Root CA G3,O=OpenTrust,C=FR
# Not Valid Before: Mon May 26 00:00:00 2014
# Not Valid After: Fri Jan 15 00:00:00 2038
# Fingerprint (MD5): 21:37:b4:17:16:92:7b:67:46:70:a9:96:d7:a8:13:24
# Fingerprint (SHA1): 6e:26:64:f3:56:bf:34:55:bf:d1:93:3f:7c:01:de:d8:13:da:8a:a6
CKA_CLASS CK_OBJECT_CLASS
 CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OpenTrust Root CA G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\156\046\144\363\126\277\064\125\277\321\223\077\174\001\336\330
\023\332\212\246
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\041\067\264\027\026\222\173\147\106\160\251\226\327\250\023\044
END
CKA_ISSUER MULTILINE_OCTAL
\060\100\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\117\160\145\156\124\162
\165\163\164\061\035\060\033\006\003\125\004\003\014\024\117\160
\145\156\124\162\165\163\164\040\122\157\157\164\040\103\101\040
\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\022\021\040\346\370\114\374\044\260\276\005\100\254\332\203
\033\064\140\077
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL
 CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Certplus Root CA G1"
# Issuer: CN=Certplus Root CA G1,O=Certplus,C=FR
# Serial Number:11:20:55:83:e4:2d:3e:54:56:85:2d:83:37:b7:2c:dc:46:11
# Subject: CN=Certplus Root CA G1,O=Certplus,C=FR
# Not Valid Before: Mon May 26 00:00:00 2014
# Not Valid After: Fri Jan 15 00:00:00 2038
# Fingerprint (MD5): 7f:09:9c:f7:d9:b9:5c:69:69:56:d5:37:3e:14:0d:42
# Fingerprint (SHA1): 22:fd:d0:b7:fd:a2:4e:0d:ac:49:2c:a0:ac:a6:7b:6a:1f:e3:f7:66
```

```
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certplus Root CA G1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\076\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\021\060\017\006\003\125\004\012\014\010\103\145\162\164\160\154
\165\163\061\034\060\032\006\003\125\004\003\014\023\103\145\162
\164\160\154\165\163\040\122\157\157\164\040\103\101\040\107\061
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\076\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\021\060\017\006\003\125\004\012\014\010\103\145\162\164\160\154
\165\163\061\034\060\032\006\003\125\004\003\014\023\103\145\162
\164\160\154\165\163\040\122\157\157\164\040\103\101\040\107\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\022\021\040\125\203\344\055\076\124\126\205\055\203\067\267
\054\334\106\021
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\153\060\202\003\123\240\003\002\001\002\002\022\021
\040\125\203\344\055\076\124\126\205\055\203\067\267\054\334\106
\021\060\015\006\011\052\206\110\206\367\015\001\001\015\005\000
\060\076\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\021\060\017\006\003\125\004\012\014\010\103\145\162\164\160\154
\165\163\061\034\060\032\006\003\125\004\003\014\023\103\145\162
\164\160\154\165\163\040\122\157\157\164\040\103\101\040\107\061
\060\036\027\015\061\064\060\065\062\066\060\060\060\060\060\060
\132\027\015\063\070\060\061\061\065\060\060\060\060\060\060\132
\060\076\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\021\060\017\006\003\125\004\012\014\010\103\145\162\164\160\154
\165\163\061\034\060\032\006\003\125\004\003\014\023\103\145\162
\164\160\154\165\163\040\122\157\157\164\040\103\101\040\107\061
\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001
\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001
\000\332\120\207\266\332\270\251\076\235\144\372\126\063\232\126
\075\026\345\003\225\262\064\034\232\155\142\005\324\330\217\347
\211\144\237\272\333\144\213\144\346\171\052\141\315\257\217\132
\211\221\145\271\130\374\264\003\137\221\077\055\020\025\340\176
\317\274\374\177\103\147\250\255\136\066\043\330\230\263\115\363
\103\236\071\174\052\374\354\210\325\210\356\160\275\205\026\055
\352\113\211\074\243\161\102\376\034\375\323\034\055\020\270\206
\124\352\103\270\333\306\207\332\250\256\200\045\317\172\046\035
```

\252\221\260\110\157\256\265\336\236\330\327\372\000\375\306\217
\320\121\273\142\175\244\261\214\262\377\040\021\272\065\143\005
\206\107\140\103\063\220\366\107\242\003\117\226\115\235\117\301
\352\352\234\242\376\064\056\336\267\312\033\166\244\267\255\237
\351\250\324\170\077\170\376\362\070\011\066\035\322\026\002\310
\354\052\150\257\365\216\224\357\055\023\172\036\102\112\035\025
\061\256\014\004\127\374\141\163\363\061\126\206\061\200\240\304
\021\156\060\166\343\224\360\137\004\304\254\207\162\211\230\305
\235\314\127\010\232\364\014\374\175\172\005\072\372\107\200\071
\266\317\204\023\167\157\047\352\377\226\147\027\010\155\351\015
\326\043\120\060\260\025\164\023\076\345\057\377\016\315\304\013
\112\135\360\330\000\063\111\146\353\241\030\174\131\056\075\050
\271\141\161\313\265\245\272\270\352\334\342\160\157\010\152\334
\207\147\064\357\337\060\162\335\363\311\077\043\377\065\341\276
\041\051\040\060\201\344\031\245\040\351\045\312\163\061\164\051
\276\342\102\325\363\262\046\146\307\150\375\031\263\347\040\223
\231\350\135\340\136\207\347\106\350\045\234\012\051\044\324\315
\130\206\122\100\044\262\173\017\230\022\040\044\366\220\154\107
\310\015\273\030\040\056\331\375\374\213\362\051\352\207\164\225
\340\102\120\170\204\004\101\141\260\364\041\043\217\055\313\050
\041\362\152\154\364\032\246\305\024\264\067\145\117\225\375\200
\310\370\162\345\045\153\304\140\261\173\155\216\112\212\163\316
\131\373\160\172\163\006\023\331\323\164\067\044\101\012\021\157
\227\334\347\344\176\241\275\025\362\272\207\017\075\150\212\026
\007\002\003\001\000\001\243\143\060\141\060\016\006\003\125\035
\017\001\001\377\004\004\003\002\001\006\060\017\006\003\125\035
\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125
\035\016\004\026\004\024\250\301\300\233\221\250\103\025\174\135
\006\047\264\052\121\330\227\013\201\261\060\037\006\003\125\035
\043\004\030\060\026\200\024\250\301\300\233\221\250\103\025\174
\135\006\047\264\052\121\330\227\013\201\261\060\015\006\011\052
\206\110\206\367\015\001\001\015\005\000\003\202\002\001\000\234
\126\157\001\176\321\275\114\365\212\306\360\046\037\344\340\070
\030\314\062\303\051\073\235\101\051\064\141\306\327\360\000\241
\353\244\162\217\224\027\274\023\054\165\264\127\356\012\174\011
\172\334\325\312\241\320\064\023\370\167\253\237\345\376\330\036
\164\212\205\007\217\177\314\171\172\312\226\315\315\375\117\373
\375\043\015\220\365\364\136\323\306\141\175\236\021\340\002\356
\011\004\331\007\335\246\212\267\014\203\044\273\203\120\222\376
\140\165\021\076\330\235\260\212\172\265\340\235\233\313\220\122
\113\260\223\052\324\076\026\063\345\236\306\145\025\076\144\073
\004\077\333\014\217\137\134\035\151\037\257\363\351\041\214\363
\357\227\366\232\267\031\266\204\164\234\243\124\265\160\116\143
\330\127\135\123\041\233\100\222\103\372\326\167\125\063\117\144
\325\373\320\054\152\216\155\045\246\357\205\350\002\304\123\076
\271\236\207\274\314\065\032\336\241\351\212\143\207\145\036\021
\052\333\143\167\227\024\276\232\024\231\021\262\300\356\260\117
\370\024\041\062\103\117\237\253\242\313\250\017\252\073\006\125

\306\022\051\127\010\324\067\327\207\047\255\111\131\247\221\253
\104\172\136\215\160\333\227\316\110\120\261\163\223\366\360\203
\140\371\315\361\341\061\375\133\174\161\041\143\024\024\252\257
\305\336\223\176\150\261\354\042\242\252\220\165\236\265\103\162
\352\144\243\204\113\375\014\250\046\153\161\227\356\126\143\146
\350\102\124\371\307\035\337\320\217\133\337\310\060\157\210\376
\015\304\063\034\123\250\243\375\110\020\362\344\012\116\341\025
\127\374\156\144\060\302\125\021\334\352\251\315\112\124\254\051
\143\104\317\112\100\240\326\150\131\033\063\371\357\072\213\333
\040\222\334\102\204\277\001\253\207\300\325\040\202\333\306\271
\203\205\102\134\017\103\073\152\111\065\325\230\364\025\277\372
\141\201\014\011\040\030\322\320\027\014\313\110\000\120\351\166
\202\214\144\327\072\240\007\125\314\036\061\300\357\072\264\145
\373\343\277\102\153\236\017\250\275\153\230\334\330\333\313\213
\244\335\327\131\364\156\335\376\252\303\221\320\056\102\007\300
\014\115\123\315\044\261\114\133\036\121\364\337\351\222\372
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Certplus Root CA G1"
Issuer: CN=Certplus Root CA G1,O=Certplus,C=FR
Serial Number:11:20:55:83:e4:2d:3e:54:56:85:2d:83:37:b7:2c:dc:46:11
Subject: CN=Certplus Root CA G1,O=Certplus,C=FR
Not Valid Before: Mon May 26 00:00:00 2014
Not Valid After: Fri Jan 15 00:00:00 2038
Fingerprint (MD5): 7f:09:9c:f7:d9:b9:5c:69:69:56:d5:37:3e:14:0d:42
Fingerprint (SHA1): 22:fd:d0:b7:fd:a2:4e:0d:ac:49:2c:a0:ac:a6:7b:6a:1f:e3:f7:66
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certplus Root CA G1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\042\375\320\267\375\242\116\015\254\111\054\240\254\246\173\152
\037\343\367\146
END
CKA_CERT_MD5_HASH
 MULTILINE_OCTAL
\177\011\234\367\331\271\134\151\151\126\325\067\076\024\015\102
END
CKA_ISSUER MULTILINE_OCTAL
\060\076\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\021\060\017\006\003\125\004\012\014\010\103\145\162\164\160\154
\165\163\061\034\060\032\006\003\125\004\003\014\023\103\145\162

```
\164\160\154\165\163\040\122\157\157\164\040\103\101\040\107\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\022\021\040\125\203\344\055\076\124\126\205\055\203\067\267
\054\334\106\021
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Certplus Root CA G2"
# Issuer: CN=Certplus Root CA G2,O=Certplus,C=FR
# Serial Number:11:20:d9:91:ce:ae:a3:e8:c5:e7:ff:e9:02:af:cf:73:bc:55
# Subject: CN=Certplus Root CA G2,O=Certplus,C=FR
#
 Not Valid Before: Mon May 26 00:00:00 2014
# Not Valid After: Fri Jan 15 00:00:00 2038
# Fingerprint (MD5): a7:ee:c4:78:2d:1b:ee:2d:b9:29:ce:d6:a7:96:32:31
# Fingerprint (SHA1): 4f:65:8e:1f:e9:06:d8:28:02:e9:54:47:41:c9:54:25:5d:69:cc:1a
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certplus Root CA G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\076\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\021\060\017\006\003\125\004\012\014\010\103\145\162\164\160\154
\165\163\061\034\060\032\006\003\125\004\003\014\023\103\145\162
\164\160\154\165\163\040\122\157\157\164\040\103\101\040\107\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\076\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\021\060\017\006\003\125\004\012\014\010\103\145\162\164\160\154
\165\163\061\034\060\032\006\003\125\004\003\014\023\103\145\162
\164\160\154\165\163\040\122\157\157\164\040\103\101\040\107\062
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\022\021\040\331\221\316\256\243\350\305\347\377\351\002\257
\317\163\274\125
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\034\060\202\001\242\240\003\002\001\002\002\022\021
\040\331\221\316\256\243\350\305\347\377\351\002\257\317\163\274
```

\125\060\012\006\010\052\206\110\316\075\004\003\003\060\076\061
\013\060\011\006\003\125\004\006\023\002\106\122\061\021\060\017
\006\003\125\004\012\014\010\103\145\162\164\160\154\165\163\061
\034\060\032\006\003\125\004\003\014\023\103\145\162\164\160\154
\165\163\040\122\157\157\164\040\103\101\040\107\062\060\036\027
\015\061\064\060\065\062\066\060\060\060\060\060\060\132\027\015
\063\070\060\061\061\065\060\060\060\060\060\060\132\060\076\061
\013\060\011\006\003\125\004\006\023\002\106\122\061\021\060\017
\006\003\125\004\012\014\010\103\145\162\164\160\154\165\163\061
\034\060\032\006\003\125\004\003\014\023\103\145\162\164\160\154
\165\163\040\122\157\157\164\040\103\101\040\107\062\060\166\060
\020\006\007\052\206\110\316\075\002\001\006\005\053\201\004\000
\042\003\142\000\004\315\017\133\126\202\337\360\105\032\326\255
\367\171\360\035\311\254\226\326\236\116\234\037\264\102\021\312
\206\277\155\373\205\243\305\345\031\134\327\356\246\077\151\147
\330\170\342\246\311\304\333\055\171\056\347\213\215\002\157\061
\042\115\006\343\140\162\105\235\016\102\167\236\316\317\345\177
\205\233\030\344\374\314\056\162\323\026\223\116\312\231\143\134
\241\005\052\154\006\243\143\060\141\060\016\006\003\125\035\017
\001\001\377\004\004\003\002\001\006\060\017\006\003\125\035\023
\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125\035
\016\004\026\004\024\332\203\143\002\171\216\332\114\306\074\043
\024\330\217\303\040\253\050\140\131\060\037\006\003\125\035\043
\004\030\060\026\200\024\332\203\143\002\171\216\332\114\306\074
\043\024\330\217\303\040\253\050\140\131\060\012\006\010\052\206
\110\316\075\004\003\003\003\150\000\060\145\002\060\160\376\260
\013\331\367\203\227\354\363\125\035\324\334\263\006\016\376\063
\230\235\213\071\220\153\224\041\355\266\327\135\326\114\327\041
\247\347\277\041\017\053\315\367\052\334\205\007\235\002\061\000
\206\024\026\345\334\260\145\302\300\216\024\237\277\044\026\150
\345\274\371\171\151\334\255\105\053\367\266\061\163\314\006\245
\123\223\221\032\223\256\160\152\147\272\327\236\345\141\032\137
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Certplus Root CA G2"
Issuer: CN=Certplus Root CA G2,O=Certplus,C=FR
Serial Number:11:20:d9:91:ce:ae:a3:e8:c5:e7:ff:e9:02:af:cf:73:bc:55
Subject: CN=Certplus Root CA G2,O=Certplus,C=FR
Not Valid Before: Mon May 26 00:00:00 2014
Not Valid After: Fri Jan 15 00:00:00 2038
Fingerprint (MD5): a7:ee:c4:78:2d:1b:ee:2d:b9:29:ce:d6:a7:96:32:31
Fingerprint (SHA1):

```
 4f:65:8e:1f:e9:06:d8:28:02:e9:54:47:41:c9:54:25:5d:69:cc:1a
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certplus Root CA G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\117\145\216\037\351\006\330\050\002\351\124\107\101\311\124\045
\135\151\314\032
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\247\356\304\170\055\033\356\055\271\051\316\326\247\226\062\061
END
CKA_ISSUER MULTILINE_OCTAL
\060\076\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\021\060\017\006\003\125\004\012\014\010\103\145\162\164\160\154
\165\163\061\034\060\032\006\003\125\004\003\014\023\103\145\162
\164\160\154\165\163\040\122\157\157\164\040\103\101\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\022\021\040\331\221\316\256\243\350\305\347\377\351\002\257
\317\163\274\125
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING
 CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Government Root Certification Authority"
# Issuer: O=Government Root Certification Authority,C=TW
# Serial Number:b6:4b:88:07:e2:23:ee:c8:5c:12:ad:a6:0e:06:a1:f2
# Subject: O=Government Root Certification Authority,C=TW
# Not Valid Before: Fri Sep 28 08:58:51 2012
# Not Valid After: Thu Dec 31 15:59:59 2037
# Fingerprint (MD5): 2f:d4:2d:cd:86:7f:36:b0:5f:1c:e0:53:8d:b6:a2:5b
# Fingerprint (SHA1): b0:91:aa:91:38:47:f3:13:d7:27:bc:ef:c8:17:9f:08:6f:3a:8c:0f
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Government Root Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\077\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\060\060\056\006\003\125\004\012\014\047\107\157\166\145\162\156
\155\145\156\164\040\122\157\157\164\040\103\145\162\164\151\146
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\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\077\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\060\060\056\006\003\125\004\012\014\047\107\157\166\145\162\156
\155\145\156\164\040\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\266\113\210\007\342\043\356\310\134\022\255\246\016
\006\241\362
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\113\060\202\003\063\240\003\002\001\002\002\021\000
\266\113\210\007\342\043\356\310\134\022\255\246\016\006\241\362
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\077\061\013\060\011\006\003\125\004\006\023\002\124\127\061\060
\060\056\006\003\125\004\012\014\047\107\157\166\145\162\156\155
\145\156\164\040\122\157\157\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
\060\036\027\015\061\062\060\071\062\070\060\070\065\070\065\061
\132\027\015\063\067\061\062\063\061\061\065\065\071\065\071\132
\060\077\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\060\060\056\006\003\125\004\012\014\047\107\157\166\145\162\156
\155\145\156\164\040\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001
\001\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002
\001\000\266\377\227\074\201\276\001\130\044\047\257\216\001\053
\326\162\222\060\062\033\137\233\174\324\324\177\350\241\140\163
\060\127\020\000\372\120\226\044\376\120\346\214\072\225\321\127
\171\204\325\147\123\014\052\202\076\030\134\270\060\046\032\326
\136\306\055\262\004\121\016\357\337\014\143\107\353\304\022\010
\121\053\231\161\136\325\151\173\341\135\311\167\035\040\354\126
\216\345\141\140\055\374\351\034\200\337\372\152\203\273\005\265
\036\043\022\234\202\312\012\363\024\035\040\344\006\217\103\044
\231\237\266\012\223\132\163\033\026\071\276\005\266\361\214\245
\144\222\217\005\344\134\166\367\071\303\317\055\275\016\330\313
\250\016\061\233\311\106\017\147\123\103\004\217\310\262\310\203
\200\137\272\362\017\253\201\065\242\040\041\227\316\017\211\064
\170\017\317\037\116\351\373\214\050\074\336\064\347\355\237\322
\146\365\305\312\061\170\322\316\120\321\140\202\143\235\340\114
\367\007\256\203\064\235\111\111\103\324\176\275\055\342\352\307
\161\145\200\010\344\066\236\171\160\012\074\207\051\351\344\222

\224\352\006\222\051\047\170\346\255\327\075\351\012\013\136\364
\340\326\206\235\055\162\313\213\144\126\346\364\256\170\245\240
\071\063\130\074\334\250\217\215\264\152\055\375\210\163\351\225
\120\163\004\337\021\210\076\102\326\002\164\373\054\304\157\274
\154\326\340\200\157\321\206\245\062\127\003\326\115\364\116\012
\231\042\166\176\112\100\202\370\311\344\116\313\123\055\307\261
\266\342\323\302\165\047\156\271\016\161\262\064\374\277\034\116
\302\075\370\066\351\012\314\130\232\241\030\206\116\342\341\252
\263\163\131\156\136\235\264\302\010\257\257\134\375\244\002\157
\377\270\015\273\325\253\327\156\237\032\117\221\100\360\037\106
\125\155\240\222\303\211\315\267\261\377\034\263\313\243\234\012
\343\376\315\252\274\001\354\335\124\312\221\335\117\023\207\244
\366\230\357\375\111\326\127\052\074\246\134\366\140\067\277\330
\076\176\116\150\052\043\062\072\276\156\344\042\075\007\044\317
\212\313\233\135\121\263\060\322\161\155\316\106\212\155\174\112
\063\104\332\022\057\066\113\362\351\361\121\011\155\333\152\227
\016\027\002\003\001\000\001\243\102\060\100\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003
\125\035\016\004\026\004\024\325\147\035\340\234\172\054\234\313
\305\230\347\035\007\046\052\206\354\164\315\060\016\006\003\125
\035\017\001\001\377\004\004\003\002\001\006\060\015\006\011\052
\206\110\206\367\015\001\001\013\005\000\003\202\002\001\000\220
\073\345\302\123\102\050\352\365\061\116\216\075\221\236\115\011
\363\330\261\122\346\117\254\014\061\041\273\361\352\231\314\203
\374\266\050\344\354\204\007\016\017\116\227\273\157\150\106\217
\016\121\025\225\370\072\073\037\137\202\016\014\161\016\274\221
\117\256\063\056\043\101\364\046\153\117\023\207\372\170\366\056
\302\017\221\005\227\252\152\301\152\237\274\204\236\010\052\047
\335\332\207\027\206\341\263\312\135\355\070\251\051\156\204\336
\106\153\374\047\031\120\245\022\172\214\175\142\374\332\347\314
\274\237\111\257\006\270\047\047\362\211\367\026\075\030\346\275
\336\365\214\022\221\237\343\004\215\376\007\024\032\132\254\071
\202\033\361\070\031\341\143\343\257\154\266\246\121\027\353\372
\113\353\213\042\366\227\376\020\072\137\224\240\113\123\161\077
\132\341\020\370\162\217\226\200\335\215\002\230\000\141\075\215
\274\055\261\107\314\332\135\341\040\247\214\061\134\361\343\332
\271\012\206\107\310\241\075\007\243\074\246\163\156\224\221\355
\156\044\072\371\311\060\321\007\250\201\175\046\175\175\204\337
\206\311\213\345\256\015\036\276\211\110\121\025\203\230\226\057
\112\353\163\064\327\164\315\311\157\320\302\272\053\366\232\376
\231\335\140\024\216\033\371\234\071\074\177\103\211\123\350\345
\302\253\276\042\255\047\070\233\167\050\267\243\143\143\247\201
\347\251\151\105\353\216\170\126\314\005\204\307\373\255\266\060
\174\143\005\237\055\214\044\177\113\213\222\374\070\036\237\240
\245\127\263\156\235\330\144\270\160\232\140\122\160\310\251\320
\377\306\234\355\020\141\136\315\203\016\156\350\115\002\101\112
\342\166\004\171\326\124\077\212\230\062\024\240\335\055\234\347
\272\202\161\243\206\125\051\231\322\051\333\165\072\367\333\103

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\377\266\133\373\267\176\065\200\216\015\154\256\171\267\066\055
\227\122\241\260\007\234\007\345\053\066\315\003\227\224\275\055
\016\064\006\374\300\026\211\374\067\124\344\326\317\075\023\004
\362\221\331\311\066\056\076\305\132\320\245\114\202\303\377\056
\174\046\166\367\363\375\105\242\245\156\125\256\056\314\317\054
\211\064\332\366\015\347\221\250\020\352\027\235\362\366\354
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Trust for "Government Root Certification Authority"
# Issuer: O=Government Root Certification Authority,C=TW
# Serial Number:b6:4b:88:07:e2:23:ee:c8:5c:12:ad:a6:0e:06:a1:f2
# Subject: O=Government Root Certification Authority,C=TW
# Not Valid Before: Fri Sep 28 08:58:51 2012
# Not Valid After: Thu Dec 31 15:59:59 2037
# Fingerprint (MD5): 2f:d4:2d:cd:86:7f:36:b0:5f:1c:e0:53:8d:b6:a2:5b
# Fingerprint (SHA1): b0:91:aa:91:38:47:f3:13:d7:27:bc:ef:c8:17:9f:08:6f:3a:8c:0f
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Government Root Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\260\221\252\221\070\107\363\023\327\047\274\357\310\027\237\010
\157\072\214\017
END
CKA_CERT_MD5_HASH
 MULTILINE_OCTAL
\057\324\055\315\206\177\066\260\137\034\340\123\215\266\242\133
END
CKA_ISSUER MULTILINE_OCTAL
\060\077\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\060\060\056\006\003\125\004\012\014\047\107\157\166\145\162\156
\155\145\156\164\040\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\266\113\210\007\342\043\356\310\134\022\255\246\016
\006\241\362
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
```

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CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "A-Trust-Root-05"
# Issuer: CN=A-Trust-Root-05,OU=A-Trust-Root-05,O=A-Trust Ges. f. Sicherheitssysteme im elektr. Datenverkehr
 GmbH,C=AT
# Serial Number: 1035700 (0xfcdb4)
# Subject: CN=A-Trust-Root-05,OU=A-Trust-Root-05,O=A-Trust Ges. f. Sicherheitssysteme im elektr.
Datenverkehr GmbH,C=AT
# Not Valid Before: Mon Sep 23 13:24:11 2013
# Not Valid After: Wed Sep 20 11:24:11 2023
# Fingerprint (MD5): f4:6f:96:17:87:40:f4:cf:37:d3:18:29:89:76:e6:0a
# Fingerprint (SHA1): 2e:66:c9:84:11:81:c0:8f:b1:df:ab:d4:ff:8d:5c:c7:2b:e0:8f:02
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "A-Trust-Root-05"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\213\061\013\060\011\006\003\125\004\006\023\002\101\124
\061\110\060\106\006\003\125\004\012\014\077\101\055\124\162\165
\163\164\040\107\145\163\056\040\146\056\040\123\151\143\150\145
\162\150\145\151\164\163\163\171\163\164\145\155\145\040\151\155
\040\145\154\145\153\164\162\056\040\104\141\164\145\156\166\145
\162\153\145\150\162\040\107\155\142\110\061\030\060\026\006\003
\125\004\013\014\017\101\055\124\162\165\163\164\055\122\157\157
\164\055\060\065\061\030\060\026\006\003\125\004\003\014\017\101
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END
CKA_ID
 UTF8 "0"
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\061\110\060\106\006\003\125\004\012\014\077\101\055\124\162\165
\163\164\040\107\145\163\056\040\146\056\040\123\151\143\150\145
\162\150\145\151\164\163\163\171\163\164\145\155\145\040\151\155
\040\145\154\145\153\164\162\056\040\104\141\164\145\156\166\145
\162\153\145\150\162\040\107\155\142\110\061\030\060\026\006\003
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\164\055\060\065\061\030\060\026\006\003\125\004\003\014\017\101
\055\124\162\165\163\164\055\122\157\157\164\055\060\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\017\315\264
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\311\060\202\003\261\240\003\002\001\002\002\003\017
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\165\163\164\040\107\145\163\056\040\146\056\040\123\151\143\150
\145\162\150\145\151\164\163\163\171\163\164\145\155\145\040\151
\155\040\145\154\145\153\164\162\056\040\104\141\164\145\156\166
\145\162\153\145\150\162\040\107\155\142\110\061\030\060\026\006
\003\125\004\013\014\017\101\055\124\162\165\163\164\055\122\157
\157\164\055\060\065\061\030\060\026\006\003\125\004\003\014\017
\101\055\124\162\165\163\164\055\122\157\157\164\055\060\065\060
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\201\213\061\013\060\011\006\003\125\004\006\023\002\101\124\061
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\315\167\047\070\304\155\134\031\352\353\176\023\206\001\240\020
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\165\214\352\067\226\211\235\131\351\164\062\057\030\060\030\072
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\211\021\121\242\136\211\274\035\314\127\145\113\111\114\023\020
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\003\243\066\060\064\060\017\006\003\125\035\023\001\001\377\004
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\163\074\252\153\065\263\154\025\053\221\061\033\344\176\222\347
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\224\243\055\252\257\267\215\322\073\055\174\202\020\324\152\112
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\217\232\266\170\111\356\274\371\036\167\140\002\044\334\336\336
\351\245\373\221\246\034\172\262\111\340\367\277\035\007\256\206
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\214\311\122\254\047\313\140\263\066\054\111\251\004\336\270\047
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\330\267\316\235\105\303\033\110\057\321\263\060\367\176\134\251
\133\061\077\345\005\233\341\166\251\327\365\051\206\163\127\034
\275\057\333\327\031\026\364\045\064\361\203\026\264\062\130\013
\261\131\116\343\213\320\243\053\213\033\100\302\367\343\122\250
\116\112\356\165\351\355\143\231\033\006\373\060\215\374\036\127
\231\354\316\024\050\343\240\215\055\353\357\007\036\014\002\216
\214\110\314\210\332\246\255\171\224\264\254\351\014\060\266\377
\006\073\024\161\225\205\373\260\172\313\213\110\131\162\333\120
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\035\137\047\151\216\314\333\357\252\127\032\253\204
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

```
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Trust for "A-Trust-Root-05"
# Issuer: CN=A-Trust-Root-05,OU=A-Trust-Root-05,O=A-Trust Ges. f. Sicherheitssysteme im elektr. Datenverkehr
GmbH,C=AT
# Serial Number: 1035700 (0xfcdb4)
# Subject: CN=A-Trust-Root-05,OU=A-Trust-Root-05,O=A-Trust Ges. f. Sicherheitssysteme im elektr.
Datenverkehr GmbH,C=AT
# Not Valid Before: Mon Sep 23 13:24:11 2013
# Not Valid After: Wed Sep 20 11:24:11 2023
# Fingerprint (MD5): f4:6f:96:17:87:40:f4:cf:37:d3:18:29:89:76:e6:0a
# Fingerprint (SHA1): 2e:66:c9:84:11:81:c0:8f:b1:df:ab:d4:ff:8d:5c:c7:2b:e0:8f:02
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "A-Trust-Root-05"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\056\146\311\204\021\201\300\217\261\337\253\324\377\215\134\307
\053\340\217\002
END
CKA_CERT_MD5_HASH
 MULTILINE_OCTAL
\364\157\226\027\207\100\364\317\067\323\030\051\211\166\346\012
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\213\061\013\060\011\006\003\125\004\006\023\002\101\124
\061\110\060\106\006\003\125\004\012\014\077\101\055\124\162\165
\163\164\040\107\145\163\056\040\146\056\040\123\151\143\150\145
\162\150\145\151\164\163\163\171\163\164\145\155\145\040\151\155
\040\145\154\145\153\164\162\056\040\104\141\164\145\156\166\145
\162\153\145\150\162\040\107\155\142\110\061\030\060\026\006\003
\125\004\013\014\017\101\055\124\162\165\163\164\055\122\157\157
\164\055\060\065\061\030\060\026\006\003\125\004\003\014\017\101
\055\124\162\165\163\164\055\122\157\157\164\055\060\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\017\315\264
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code
 Signing Only Certificate
# Certificate "A-Trust-Qual-02"
```

```
# Issuer: CN=A-Trust-Qual-02,OU=A-Trust-Qual-02,O=A-Trust Ges. f. Sicherheitssysteme im elektr. Datenverkehr
GmbH,C=AT
# Serial Number:14:4d:e4
# Subject: CN=A-Trust-Qual-02,OU=A-Trust-Qual-02,O=A-Trust Ges. f. Sicherheitssysteme im elektr.
Datenverkehr GmbH,C=AT
# Not Valid Before: Tue Jul 01 11:23:33 2014
# Not Valid After: Mon Jul 01 09:23:33 2024
# Fingerprint (MD5): 4b:d4:35:43:a8:b2:43:6d:d7:78:e2:89:a2:a9:39:ab
# Fingerprint (SHA1): cd:78:7a:3d:5c:ba:82:07:08:28:48:36:5e:9a:cd:e9:68:33:64:d8
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "A-Trust-Qual-02"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\213\061\013\060\011\006\003\125\004\006\023\002\101\124
\061\110\060\106\006\003\125\004\012\014\077\101\055\124\162\165
\163\164\040\107\145\163\056\040\146\056\040\123\151\143\150\145
\162\150\145\151\164\163\163\171\163\164\145\155\145\040\151\155
\040\145\154\145\153\164\162\056\040\104\141\164\145\156\166\145
\162\153\145\150\162\040\107\155\142\110\061\030\060\026\006\003
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\154\055\060\062\061\030\060\026\006\003\125\004\003\014\017\101
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END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
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\061\110\060\106\006\003\125\004\012\014\077\101\055\124\162\165
\163\164\040\107\145\163\056\040\146\056\040\123\151\143\150\145
\162\150\145\151\164\163\163\171\163\164\145\155\145\040\151\155
\040\145\154\145\153\164\162\056\040\104\141\164\145\156\166\145
\162\153\145\150\162\040\107\155\142\110\061\030\060\026\006\003
\125\004\013\014\017\101\055\124\162\165\163\164\055\121\165\141
\154\055\060\062\061\030\060\026\006\003\125\004\003\014\017\101
\055\124\162\165\163\164\055\121\165\141\154\055\060\062
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\003\024\115\344
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\313\060\202\002\263\240\003\002\001\002\002\003\024
\115\344\060\015\006\011\052\206\110\206\367\015\001\001\005\005
\000\060\201\213\061\013\060\011\006\003\125\004\006\023\002\101
\124\061\110\060\106\006\003\125\004\012\014\077\101\055\124\162
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\155\040\145\154\145\153\164\162\056\040\104\141\164\145\156\166
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\141\154\055\060\062\061\030\060\026\006\003\125\004\003\014\017
\101\055\124\162\165\163\164\055\121\165\141\154\055\060\062\060
\036\027\015\061\064\060\067\060\061\061\061\062\063\063\063\132
\027\015\062\064\060\067\060\061\060\071\062\063\063\063\132\060
\201\213\061\013\060\011\006\003\125\004\006\023\002\101\124\061
\110\060\106\006\003\125\004\012\014\077\101\055\124\162\165\163
\164\040\107\145\163\056\040\146\056\040\123\151\143\150\145\162
\150\145\151\164\163\163\171\163\164\145\155\145\040\151\155\040
\145\154\145\153\164\162\056\040\104\141\164\145\156\166\145\162
\153\145\150\162\040\107\155\142\110\061\030\060\026\006\003\125
\004\013\014\017\101\055\124\162\165\163\164\055\121\165\141\154
\055\060\062\061\030\060\026\006\003\125\004\003\014\017\101\055
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\014\226\153\217\056\111\110\330\351\344\044\202\341\330\272\314
\353\336\007\134\110\306\031\202\001\107\102\011\341\174\271\237
\256\217\366\356\136\153\250\250\126\210\070\126\263\346\376\311
\235\117\064\070\121\074\234\276\363\254\234\034\310\075\134\232
\204\256\367\224\054\024\262\144\067\140\216\024\260\073\052\315
\211\265\042\257\367\344\177\356\054\053\063\371\216\074\255\114
\242\127\017\373\202\305\216\037\001\337\123\214\301\025\244\335
\356\232\222\022\322\050\351\142\027\045\140\061\357\317\061\224
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\161\111\327\034\310\240\355\143\232\175\343\217\050\335\140\371
\330\346\026\253\046\321\320\057\275\347\015\011\337\156\324\354
\345\070\123\364\144\013\272\132\314\200\265\070\131\354\200\131
\145\204\061\152\137\125\221\114\044\345\044\232\203\204\172\276
\200\361\356\137\040\007\252\167\027\154\013\342\125\252\226\170
\010\002\236\227\360\053\256\130\365\200\120\077\376\073\002\003
\001\000\001\243\066\060\064\060\017\006\003\125\035\023\001\001
\377\004\005\060\003\001\001\377\060\021\006\003\125\035\016\004
\012\004\010\102\075\053\044\246\301\105\316\060\016\006\003\125
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\206\110\206\367\015\001\001\005\005\000\003\202\001\001\000\141
\061\363\210\065\011\270\136\234\305\350\071\244\072\146\377\002
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\263\255\104\312\374\321\076\231\332\346\327\224\137\166\333\073
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\004\016\156\122\123\033\247\234\347\154\073\145\307\001\177\346

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\364\017\232\207\102\052\303\204\217\177\320\152\065\022\036\325
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\331\323\046\210\304\073\200\150\126\137\325\372\201\142\335
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "A-Trust-Qual-02"
Issuer: CN=A-Trust-Qual-02,OU=A-Trust-Qual-02,O=A-Trust Ges. f. Sicherheitssysteme im elektr. Datenverkehr GmbH,C=AT
Serial Number:14:4d:e4
Subject: CN=A-Trust-Qual-02,OU=A-Trust-Qual-02,O=A-Trust Ges. f. Sicherheitssysteme im elektr. Datenverkehr GmbH,C=AT
Not Valid Before: Tue Jul 01 11:23:33 2014
Not Valid After: Mon Jul 01 09:23:33 2024
Fingerprint (MD5): 4b:d4:35:43:a8:b2:43:6d:d7:78:e2:89:a2:a9:39:ab
Fingerprint (SHA1): cd:78:7a:3d:5c:ba:82:07:08:28:48:36:5e:9a:cd:e9:68:33:64:d8
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "A-Trust-Qual-02"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\315\170\172\075\134\272\202\007\010\050\110\066\136\232\315\351
\150\063\144\330
END
CKA_CERT_MD5_HASH
 MULTILINE_OCTAL
\113\324\065\103\250\262\103\155\327\170\342\211\242\251\071\253
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\213\061\013\060\011\006\003\125\004\006\023\002\101\124
\061\110\060\106\006\003\125\004\012\014\077\101\055\124\162\165
\163\164\040\107\145\163\056\040\146\056\040\123\151\143\150\145
\162\150\145\151\164\163\163\171\163\164\145\155\145\040\151\155
\040\145\154\145\153\164\162\056\040\104\141\164\145\156\166\145
\162\153\145\150\162\040\107\155\142\110\061\030\060\026\006\003
\125\004\013\014\017\101\055\124\162\165\163\164\055\121\165\141
\154\055\060\062\061\030\060\026\006\003\125\004\003\014\017\101

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\055\124\162\165\163\164\055\121\165\141\154\055\060\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\024\115\344
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED
 CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Thailand National Root Certification Authority - G1"
# Issuer: CN=Thailand National Root Certification Authority - G1,OU=Thailand National Root Certification
Authority,O=Electronic Transactions Development Agency (Public Organization),C=TH
# Serial Number:51:52:c5:8c
# Subject: CN=Thailand National Root Certification Authority - G1,OU=Thailand National Root Certification
Authority,O=Electronic Transactions Development Agency (Public Organization),C=TH
# Not Valid Before: Wed Mar 27 09:40:22 2013
# Not Valid After: Thu Mar 27 10:10:22 2036
# Fingerprint (MD5): da:9d:b6:26:4a:e5:22:a0:bb:8d:a4:f7:bc:0d:25:cc
# Fingerprint (SHA1): 66:f2:dc:fb:3f:81:4d:de:e9:b3:20:6f:11:de:fe:1b:fb:df:e1:32
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Thailand National Root Certification Authority
 - G1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\317\061\013\060\011\006\003\125\004\006\023\002\124\110
\061\111\060\107\006\003\125\004\012\014\100\105\154\145\143\164
\162\157\156\151\143\040\124\162\141\156\163\141\143\164\151\157
\156\163\040\104\145\166\145\154\157\160\155\145\156\164\040\101
\147\145\156\143\171\040\050\120\165\142\154\151\143\040\117\162
\147\141\156\151\172\141\164\151\157\156\051\061\067\060\065\006
\003\125\004\013\014\056\124\150\141\151\154\141\156\144\040\116
\141\164\151\157\156\141\154\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171\061\074\060\072\006\003\125\004\003\014\063\124
\150\141\151\154\141\156\144\040\116\141\164\151\157\156\141\154
\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040
\107\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\317\061\013\060\011\006\003\125\004\006\023\002\124\110
```

\061\111\060\107\006\003\125\004\012\014\100\105\154\145\143\164
\162\157\156\151\143\040\124\162\141\156\163\141\143\164\151\157
\156\163\040\104\145\166\145\154\157\160\155\145\156\164\040\101
\147\145\156\143\171\040\050\120\165\142\154\151\143\040\117\162
\147\141\156\151\172\141\164\151\157\156\051\061\067\060\065\006
\003\125\004\013\014\056\124\150\141\151\154\141\156\144\040\116
\141\164\151\157\156\141\154\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171\061\074\060\072\006\003\125\004\003\014\063\124
\150\141\151\154\141\156\144\040\116\141\164\151\157\156\141\154
\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040
\107\061
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\004\121\122\305\214
END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\201\060\202\004\151\240\003\002\001\002\002\004\121
\122\305\214\060\015\006\011\052\206\110\206\367\015\001\001\015
\005\000\060\201\317\061\013\060\011\006\003\125\004\006\023\002
\124\110\061\111\060\107\006\003\125\004\012\014\100\105\154\145
\143\164\162\157\156\151\143\040\124\162\141\156\163\141\143\164
\151\157\156\163\040\104\145\166\145\154\157\160\155\145\156\164
\040\101\147\145\156\143\171\040\050\120\165\142\154\151\143\040
\117\162\147\141\156\151\172\141\164\151\157\156\051\061\067\060
\065\006\003\125\004\013\014\056\124\150\141\151\154\141\156\144
\040\116\141\164\151\157\156\141\154\040\122\157\157\164\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164
\150\157\162\151\164\171\061\074\060\072\006\003\125\004\003\014
\063\124\150\141\151\154\141\156\144\040\116\141\164\151\157\156
\141\154\040\122\157\157\164\040\103\145\162\164\151\146\151\143
\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040
\055\040\107\061\060\036\027\015\061\063\060\063\062\067\060\071
\064\060\062\062\132\027\015\063\066\060\063\062\067\061\060\061
\060\062\062\132\060\201\317\061\013\060\011\006\003\125\004\006
\023\002\124\110\061\111\060\107\006\003\125\004\012\014\100\105
\154\145\143\164\162\157\156\151\143\040\124\162\141\156\163\141
\143\164\151\157\156\163\040\104\145\166\145\154\157\160\155\145
\156\164\040\101\147\145\156\143\171\040\050\120\165\142\154\151
\143\040\117\162\147\141\156\151\172\141\164\151\157\156\051\061
\067\060\065\006\003\125\004\013\014\056\124\150\141\151\154\141
\156\144\040\116\141\164\151\157\156\141\154\040\122\157\157\164
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\061\074\060\072\006\003\125\004
\003\014\063\124\150\141\151\154\141\156\144\040\116\141\164\151
\157\156\141\154\040\122\157\157\164\040\103\145\162\164\151\146

\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171\040\055\040\107\061\060\202\002\042\060\015\006\011\052\206
\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202
\002\012\002\202\002\001\000\326\272\112\344\214\361\232\056\211
\027\302\100\363\202\000\061\376\023\002\172\145\312\010\330\253
\042\261\002\232\161\064\112\144\131\202\345\102\106\353\043\366
\213\132\042\261\317\066\347\163\155\024\155\367\111\224\136\357
\347\064\131\147\366\250\317\126\131\043\204\125\342\373\032\021
\312\243\371\212\253\147\036\202\023\320\213\071\232\277\017\302
\017\074\326\141\330\352\233\317\025\016\276\324\360\314\077\163
\234\004\364\242\161\163\175\200\260\235\061\361\006\371\260\023
\345\210\111\060\366\026\175\210\127\051\072\054\242\214\220\230
\316\021\026\316\115\121\017\374\307\262\314\362\146\030\041\200
\005\210\255\271\320\305\013\170\001\376\116\322\010\213\066\361
\126\317\156\272\163\046\013\326\367\245\106\152\151\116\226\266
\247\006\126\314\346\056\061\237\156\213\355\234\000\125\107\364
\173\246\172\266\337\001\035\110\004\013\253\102\302\160\112\224
\275\374\254\121\362\253\077\326\353\140\337\010\377\365\022\262
\211\052\172\271\105\231\045\175\174\357\317\025\320\110\054\020
\326\324\274\010\047\265\206\051\324\343\323\304\052\220\022\366
\242\052\371\213\257\026\377\002\363\172\156\317\242\313\152\264
\340\162\013\373\076\205\177\342\207\340\057\103\043\370\205\311
\231\352\326\100\336\240\373\347\336\166\377\217\200\071\353\147
\022\023\246\373\345\243\374\046\200\131\143\362\322\043\353\037
\306\110\163\121\235\267\263\240\133\253\152\210\371\277\373\161
\121\334\156\266\166\357\260\133\362\313\210\060\272\006\333\033
\101\323\125\264\255\264\352\040\041\374\324\167\266\075\133\241
\014\055\045\041\122\043\122\327\064\123\155\026\004\122\146\370
\325\352\361\054\130\362\073\261\361\176\103\265\334\202\270\136
\343\207\341\243\244\137\347\211\016\274\234\351\051\072\045\247
\330\117\152\207\324\226\104\227\030\026\207\302\161\122\205\316
\172\214\255\036\147\276\272\055\277\243\041\047\305\347\060\351
\006\231\033\260\014\343\276\122\145\223\115\141\113\362\070\346
\217\030\361\002\122\230\056\246\016\035\005\317\046\354\001\043
\007\066\366\340\023\067\251\107\210\003\207\107\313\335\262\001
\037\137\144\033\004\233\305\002\003\001\000\001\243\143\060\141
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001
\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001
\006\060\037\006\003\125\035\043\004\030\060\026\200\024\177\043
\166\267\203\052\161\367\054\321\210\017\335\114\137\062\012\150
\273\177\060\035\006\003\125\035\016\004\026\004\024\177\043\166
\267\203\052\161\367\054\321\210\017\335\114\137\062\012\150\273
\177\060\015\006\011\052\206\110\206\367\015\001\001\015\005\000
\003\202\002\001\000\015\145\034\132\007\251\236\254\114\311\137
\117\335\061\154\331\342\123\035\077\221\215\132\263\214\275\064
\236\056\115\312\130\323\257\131\142\111\066\163\260\141\166\021
\276\213\066\307\224\252\370\066\151\007\040\337\134\057\013\366
\216\002\026\357\122\006\070\335\355\064\140\252\207\136\027\316

\070\155\120\115\345\337\345\121\276\035\004\226\364\334\352\345
\331\352\216\336\237\164\313\202\224\123\201\154\373\136\054\325
\241\165\226\115\373\060\134\315\141\240\236\241\314\202\271\122
\162\013\207\143\141\173\141\064\164\266\056\335\342\341\207\265
\111\024\141\025\107\112\113\076\167\271\010\322\066\117\130\147
\102\211\200\170\132\022\043\355\105\073\335\277\040\046\124\374
\133\077\140\001\030\101\343\147\165\023\267\052\025\160\314\313
\171\322\024\370\363\302\340\052\020\367\371\102\330\334\332\012
\323\001\005\333\127\230\311\266\353\014\231\012\312\214\175\357
\073\026\050\300\367\137\341\107\121\323\370\006\105\007\360\013
\272\302\234\230\354\322\177\115\176\375\006\374\163\302\302\125
\022\142\320\043\104\337\042\344\370\171\347\245\020\116\076\311
\216\252\203\351\066\352\253\171\306\005\204\315\226\150\174\164
\254\077\062\377\256\311\100\354\217\120\277\120\250\267\116\325
\255\066\152\327\047\063\372\347\330\055\331\067\230\205\033\246
\014\352\173\020\023\160\036\236\210\305\334\076\216\271\015\125
\337\001\316\320\111\166\121\333\020\142\170\101\255\151\143\245
\225\011\267\030\006\157\375\004\147\324\020\017\116\333\073\137
\014\143\174\353\144\275\156\113\000\250\201\372\222\062\206\060
\214\011\277\175\130\077\145\015\251\067\321\105\343\146\151\304
\150\364\142\251\250\036\067\331\056\231\111\240\260\006\214\100
\177\205\261\365\361\114\113\070\240\010\314\052\331\226\300\354
\300\015\074\056\105\127\303\357\225\332\266\313\356\133\145\250
\053\062\257\311\047\371\025\123\067\165\130\037\113\352\227\242
\042\134\147\126\342\240\314\065\304\254\303\061\100\271\234\003
\172\275\311\110\016\352\152\025\332\234\274\170\157\311\025\347
\144\003\331\111\023\146\105\113\055\364\204\231\263\352\247\022
\225\345\223\056\374
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Thailand National Root Certification Authority - G1"
Issuer: CN=Thailand National Root
Certification Authority - G1,OU=Thailand National Root Certification Authority,O=Electronic Transactions
Development Agency (Public Organization),C=TH
Serial Number:51:52:c5:8c
Subject: CN=Thailand National Root Certification Authority - G1,OU=Thailand National Root Certification
Authority,O=Electronic Transactions Development Agency (Public Organization),C=TH
Not Valid Before: Wed Mar 27 09:40:22 2013
Not Valid After: Thu Mar 27 10:10:22 2036
Fingerprint (MD5): da:9d:b6:26:4a:e5:22:a0:bb:8d:a4:f7:bc:0d:25:cc
Fingerprint (SHA1): 66:f2:dc:fb:3f:81:4d:de:e9:b3:20:6f:11:de:fe:1b:fb:df:e1:32
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE

```
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Thailand National Root Certification Authority - G1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\146\362\334\373\077\201\115\336\351\263\040\157\021\336\376\033
\373\337\341\062
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\332\235\266\046\112\345\042\240\273\215\244\367\274\015\045\314
END
CKA_ISSUER
 MULTILINE_OCTAL
\060\201\317\061\013\060\011\006\003\125\004\006\023\002\124\110
\061\111\060\107\006\003\125\004\012\014\100\105\154\145\143\164
\162\157\156\151\143\040\124\162\141\156\163\141\143\164\151\157
\156\163\040\104\145\166\145\154\157\160\155\145\156\164\040\101
\147\145\156\143\171\040\050\120\165\142\154\151\143\040\117\162
\147\141\156\151\172\141\164\151\157\156\051\061\067\060\065\006
\003\125\004\013\014\056\124\150\141\151\154\141\156\144\040\116
\141\164\151\157\156\141\154\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171\061\074\060\072\006\003\125\004\003\014\063\124
\150\141\151\154\141\156\144\040\116\141\164\151\157\156\141\154
\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040
\107\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\121\122\305\214
END
CKA_TRUST_SERVER_AUTH
 CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Certification Authority of WoSign"
# Issuer: CN=Certification Authority of WoSign,O=WoSign CA Limited,C=CN
# Serial Number:5e:68:d6:11:71:94:63:50:56:00:68:f3:3e:c9:c5:91
# Subject: CN=Certification Authority of WoSign,O=WoSign CA Limited,C=CN
# Not Valid Before: Sat Aug 08 01:00:01 2009
# Not Valid After: Mon Aug 08 01:00:01 2039
# Fingerprint (MD5): a1:f2:f9:b5:d2:c8:7a:74:b8:f3:05:f1:d7:e1:84:8d
# Fingerprint (SHA1): b9:42:94:bf:91:ea:8f:b6:4b:e6:10:97:c7:fb:00:13:59:b6:76:cb
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
```

CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certification Authority of WoSign"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\125\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\032\060\030\006\003\125\004\012\023\021\127\157\123\151\147\156
\040\103\101\040\114\151\155\151\164\145\144\061\052\060\050\006
\003\125\004\003\023\041\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\040\157\146
\040\127\157\123\151\147\156
END
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\125\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\032\060\030\006\003\125\004\012\023\021\127\157\123\151\147\156
\040\103\101\040\114\151\155\151\164\145\144\061\052\060\050\006
\003\125\004\003\023\041\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\040\157\146
\040\127\157\123\151\147\156
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\136\150\326\021\161\224\143\120\126\000\150\363\076\311
\305\221
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\166\060\202\003\136\240\003\002\001\002\002\020\136
\150\326\021\161\224\143\120\126\000\150\363\076\311\305\221\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\125
\061\013\060\011\006\003\125\004\006\023\002\103\116\061\032\060
\030\006\003\125\004\012\023\021\127\157\123\151\147\156\040\103
\101\040\114\151\155\151\164\145\144\061\052\060\050\006\003\125
\004\003\023\041\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\040\157\146\040\127
\157\123\151\147\156\060\036\027\015\060\071\060\070\060\070\060
\061\060\060\060\061\132\027\015\063\071\060\070\060\070\060\061
\060\060\060\061\132\060\125\061\013\060\011\006\003\125\004\006
\023\002\103\116\061\032\060\030\006\003\125\004\012\023\021\127
\157\123\151\147\156\040\103\101\040\114\151\155\151\164\145\144
\061\052\060\050\006\003\125\004\003\023\041\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\157\146\040\127\157\123\151\147\156\060\202\002\042
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\002\017\000\060\202\002\012\002\202\002\001\000\275\312\215
\254\270\221\025\126\227\173\153\134\172\302\336\153\331\241\260
\303\020\043\372\247\241\262\314\061\372\076\331\246\051\157\026
\075\340\153\370\270\100\137\333\071\250\000\172\213\240\115\124
\175\302\042\170\374\216\011\270\250\205\327\314\225\227\113\164

\330\236\176\360\000\344\016\211\256\111\050\104\032\020\231\062
\017\045\210\123\244\015\263\017\022\010\026\013\003\161\047\034
\177\341\333\322\375\147\150\304\005\135\012\016\135\160\327\330
\227\240\274\123\101\232\221\215\364\236\066\146\172\176\126\301
\220\137\346\261\150\040\066\244\214\044\054\054\107\013\131\166
\146\060\265\276\336\355\217\370\235\323\273\001\060\346\362\363
\016\340\054\222\200\363\205\371\050\212\264\124\056\232\355\367
\166\374\025\150\026\353\112\154\353\056\022\217\324\317\376\014
\307\134\035\013\176\005\062\276\136\260\011\052\102\325\311\116
\220\263\131\015\273\172\176\315\325\010\132\264\177\330\034\151
\021\371\047\017\173\006\257\124\203\030\173\341\335\124\172\121
\150\156\167\374\306\277\122\112\146\106\241\262\147\032\273\243
\117\167\240\276\135\377\374\126\013\103\162\167\220\312\236\371
\362\071\365\015\251\364\352\327\347\263\020\057\060\102\067\041
\314\060\160\311\206\230\017\314\130\115\203\273\175\345\032\245
\067\215\266\254\062\227\000\072\143\161\044\036\236\067\304\377
\164\324\067\300\342\376\210\106\140\021\335\010\077\120\066\253
\270\172\244\225\142\152\156\260\312\152\041\132\151\363\363\373
\035\160\071\225\363\247\156\246\201\211\241\210\305\073\161\312
\243\122\356\203\273\375\240\167\364\344\157\347\102\333\155\112
\231\212\064\110\274\027\334\344\200\010\042\266\362\061\300\077
\004\076\353\237\040\171\326\270\006\144\144\002\061\327\251\315
\122\373\204\105\151\011\000\052\334\125\213\304\006\106\113\300
\112\035\011\133\071\050\375\251\253\316\000\371\056\110\113\046
\346\060\114\245\130\312\264\104\202\117\347\221\036\063\303\260
\223\377\021\374\201\322\312\037\161\051\335\166\117\222\045\257
\035\201\267\017\057\214\303\006\314\057\047\243\112\344\016\231
\272\174\036\105\037\177\252\031\105\226\375\374\075\002\003\001
\000\001\243\102\060\100\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\006\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026
\004\024\341\146\317\016\321\361\263\113\267\006\040\024\376\207
\022\325\366\376\373\076\060\015\006\011\052\206\110\206\367\015
\001\001\005\005\000\003\202\002\001\000\250\313\162\100\262\166
\301\176\173\374\255\144\343\062\173\314\074\266\135\106\323\365
\054\342\160\135\310\056\330\006\175\230\321\013\041\240\211\131
\044\001\235\371\257\011\175\012\043\202\064\325\374\174\162\231
\271\243\327\124\364\352\122\160\016\305\365\326\073\341\072\011
\062\346\041\071\223\275\263\025\352\117\152\364\365\213\077\057
\174\215\130\056\305\341\071\240\076\307\075\112\163\236\100\172
\300\053\141\251\147\311\363\044\271\263\155\125\054\132\035\236
\045\162\316\013\255\252\307\125\142\013\276\373\143\263\141\104
\043\243\313\341\032\016\367\232\006\115\336\324\043\116\041\226
\133\071\133\127\035\057\135\010\136\011\171\377\174\227\265\115
\203\256\015\326\346\243\171\340\063\320\231\226\002\060\247\076
\377\322\243\103\077\005\132\006\352\104\002\332\174\370\110\320
\063\251\371\007\307\225\341\365\076\365\135\161\272\362\225\251
\164\210\141\131\343\277\312\132\023\272\162\264\214\135\066\207

\351\246\305\074\023\277\336\320\104\046\356\267\354\056\160\372
\327\235\267\254\345\305\100\132\346\327\154\173\054\303\126\233
\107\315\013\316\372\033\264\041\327\267\146\270\364\045\060\213
\134\015\271\352\147\262\364\155\256\325\241\236\117\330\237\351
\047\002\260\035\006\326\217\343\373\110\022\237\177\021\241\020
\076\114\121\072\226\260\321\023\361\307\330\046\256\072\312\221
\304\151\235\337\001\051\144\121\157\150\332\024\354\010\101\227
\220\215\320\262\200\362\317\302\075\277\221\150\305\200\147\036
\304\140\023\125\325\141\231\127\174\272\225\017\141\111\072\312
\165\274\311\012\223\077\147\016\022\362\050\342\061\033\300\127
\026\337\010\174\031\301\176\017\037\205\036\012\066\174\133\176
\047\274\172\277\340\333\364\332\122\275\336\014\124\160\061\221
\103\225\310\274\360\076\335\011\176\060\144\120\355\177\001\244
\063\147\115\150\117\276\025\357\260\366\002\021\242\033\023\045
\072\334\302\131\361\343\134\106\273\147\054\002\106\352\036\110
\246\346\133\331\265\274\121\242\222\226\333\252\306\067\042\246
\376\314\040\164\243\055\251\056\153\313\300\202\021\041\265\223
\171\356\104\206\276\327\036\344\036\373
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Certification Authority of WoSign"
Issuer: CN=Certification Authority of WoSign,O=WoSign CA Limited,C=CN
Serial Number:5e:68:d6:11:71:94:63:50:56:00:68:f3:3e:c9:c5:91
Subject: CN=Certification Authority
 of WoSign,O=WoSign CA Limited,C=CN
Not Valid Before: Sat Aug 08 01:00:01 2009
Not Valid After: Mon Aug 08 01:00:01 2039
Fingerprint (MD5): a1:f2:f9:b5:d2:c8:7a:74:b8:f3:05:f1:d7:e1:84:8d
Fingerprint (SHA1): b9:42:94:bf:91:ea:8f:b6:4b:e6:10:97:c7:fb:00:13:59:b6:76:cb
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certification Authority of WoSign"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\271\102\224\277\221\352\217\266\113\346\020\227\307\373\000\023
\131\266\166\313
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\241\362\371\265\322\310\172\164\270\363\005\361\327\341\204\215
END
CKA_ISSUER MULTILINE_OCTAL
\060\125\061\013\060\011\006\003\125\004\006\023\002\103\116\061

```
\032\060\030\006\003\125\004\012\023\021\127\157\123\151\147\156
\040\103\101\040\114\151\155\151\164\145\144\061\052\060\050\006
\003\125\004\003\023\041\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\040\157\146
\040\127\157\123\151\147\156
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\136\150\326\021\161\224\143\120\126\000\150\363\076\311
\305\221
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "CA "
# Issuer: CN=CA ,O=WoSign CA Limited,C=CN
# Serial Number:50:70:6b:cd:d8:13:fc:1b:4e:3b:33:72:d2:11:48:8d
# Subject: CN=CA ,O=WoSign CA Limited,C=CN
# Not Valid Before: Sat Aug 08 01:00:01 2009
# Not Valid After: Mon Aug 08 01:00:01 2039
# Fingerprint (MD5): 78:83:5b:52:16:76:c4:24:3b:83:78:e8:ac:da:9a:93
# Fingerprint (SHA1): 16:32:47:8d:89:f9:21:3a:92:00:85:63:f5:a4:a7:d3:12:40:8a:d6
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL
 UTF8 "CA "
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\106\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\032\060\030\006\003\125\004\012\023\021\127\157\123\151\147\156
\040\103\101\040\114\151\155\151\164\145\144\061\033\060\031\006
\003\125\004\003\014\022\103\101\040\346\262\203\351\200\232\346
\240\271\350\257\201\344\271\246
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\106\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\032\060\030\006\003\125\004\012\023\021\127\157\123\151\147\156
\040\103\101\040\114\151\155\151\164\145\144\061\033\060\031\006
\003\125\004\003\014\022\103\101\040\346\262\203\351\200\232\346
\240\271\350\257\201\344\271\246
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
```

\002\020\120\160\153\315\330\023\374\033\116\073\063\162\322\021
\110\215
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\130\060\202\003\100\240\003\002\001\002\002\020\120
\160\153\315\330\023\374\033\116\073\063\162\322\021\110\215\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\106
\061\013\060\011\006\003\125\004\006\023\002\103\116\061\032\060
\030\006\003\125\004\012\023\021\127\157\123\151\147\156\040\103
\101\040\114\151\155\151\164\145\144\061\033\060\031\006\003\125
\004\003\014\022\103\101\040\346\262\203\351\200\232\346\240\271
\350\257\201\344\271\246\060\036\027\015\060\071\060\070\060\070
\060\061\060\060\060\061\132\027\015\063\071\060\070\060\070\060
\061\060\060\060\061\132\060\106\061\013\060\011\006\003\125\004
\006\023\002\103\116\061\032\060\030\006\003\125\004\012\023\021
\127\157\123\151\147\156\040\103\101\040\114\151\155\151\164\145
\144\061\033\060\031\006\003\125\004\003\014\022\103\101\040\346
\262\203\351\200\232\346\240\271\350\257\201\344\271\246\060\202
\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005
\000\003\202\002\017\000\060\202\002\012\002\202\002\001\000\320
\111\041\036\045\374\207\301\052\302\254\333\166\206\006\116\347
\320\164\064\334\355\145\065\374\120\326\210\077\244\360\177\353
\017\137\171\057\211\261\375\274\143\130\067\223\233\070\370\267
\133\251\372\330\161\307\264\274\200\227\215\154\113\361\120\325
\052\051\252\250\031\172\226\346\225\216\164\355\227\012\127\165
\364\005\333\155\013\071\271\001\177\252\366\326\332\154\346\005
\340\244\115\122\374\333\320\164\267\021\214\173\215\117\377\207
\203\256\377\005\003\023\127\120\067\376\214\226\122\020\114\137
\277\224\161\151\331\226\076\014\103\117\276\060\300\237\071\164
\117\006\105\135\243\326\126\071\150\007\314\207\117\120\167\223
\161\331\104\010\261\212\064\351\211\254\333\233\116\341\331\344
\122\105\214\056\024\037\221\153\031\035\150\051\054\126\304\342
\036\023\127\144\360\141\343\271\021\337\260\341\127\240\033\255
\327\137\321\257\333\053\055\077\320\150\216\017\352\237\017\213
\065\130\033\023\034\364\336\065\241\012\135\326\352\337\022\157
\300\373\151\007\106\162\334\201\366\004\043\027\340\115\165\341
\162\157\260\050\353\233\341\341\203\241\237\112\135\257\314\233
\372\002\040\266\030\142\167\221\073\243\325\145\255\334\174\220
\167\034\104\101\244\112\213\353\225\162\351\366\011\144\334\250
\055\237\164\170\350\301\242\011\143\234\357\240\333\117\235\225
\253\040\117\267\260\367\207\134\246\240\344\067\070\307\134\343
\065\017\054\255\243\200\242\354\056\135\300\317\355\213\005\302
\346\163\156\366\211\325\365\322\106\216\352\155\143\033\036\212
\311\175\246\370\234\353\345\325\143\205\115\163\146\151\021\376
\310\016\364\301\307\146\111\123\176\344\031\153\361\351\172\131
\243\155\176\305\027\346\047\306\357\033\333\157\374\015\115\006
\001\264\016\134\060\106\125\140\257\070\145\072\312\107\272\254
\054\314\106\037\262\106\226\077\363\355\046\005\356\167\241\152

\153\176\055\155\130\134\112\324\216\147\270\361\332\325\106\212
\047\371\021\362\311\102\376\116\336\337\037\134\304\244\206\207
\026\063\241\247\027\030\245\015\344\005\345\053\302\053\013\242
\225\220\271\375\140\074\116\211\076\347\234\356\037\273\001\002
\003\001\000\001\243\102\060\100\060\016\006\003\125\035\017\001
\001\377\004\004\003\002\001\006\060\017\006\003\125\035\023\001
\001\377\004\005\060\003\001\001\377\060\035\006\003\125\035\016
\004\026\004\024\340\115\277\334\233\101\135\023\350\144\360\247
\351\025\244\341\201\301\272\061\060\015\006\011\052\206\110\206
\367\015\001\001\013\005\000\003\202\002\001\000\152\212\160\070
\131\266\332\213\030\310\276\052\323\266\031\325\146\051\172\135
\315\133\057\163\034\046\116\243\175\157\253\267\051\115\246\351
\245\021\203\247\071\163\257\020\104\222\346\045\135\117\141\372
\310\006\276\116\113\357\376\363\061\376\306\174\160\012\101\130
\332\350\231\113\226\311\170\274\230\174\002\051\355\011\200\346
\012\072\202\002\052\342\311\057\310\126\031\046\356\170\034\043
\375\367\223\145\116\347\363\230\230\257\315\335\331\236\100\210
\061\050\072\253\056\013\260\254\014\044\372\172\046\230\363\022
\141\020\364\135\027\367\176\342\170\227\124\342\214\350\051\272
\214\020\062\275\335\063\153\070\206\176\071\075\016\003\162\247
\135\171\217\105\212\131\256\133\041\156\061\106\325\131\215\317
\025\137\335\061\045\317\333\140\326\201\104\162\051\002\127\366
\226\324\326\377\352\051\333\071\305\270\054\212\032\215\316\313
\347\102\061\206\005\150\016\236\024\335\000\220\272\151\105\010
\333\156\220\201\206\247\052\005\077\346\204\071\370\267\371\127
\137\114\244\171\132\020\014\136\325\153\377\065\137\005\121\036
\154\243\165\251\317\120\203\323\174\364\146\367\202\215\075\014
\175\350\337\173\250\016\033\054\234\256\100\160\207\332\355\247
\026\202\132\276\065\154\040\116\042\141\331\274\121\172\315\172
\141\334\113\021\371\376\147\064\317\056\004\146\141\134\127\227
\043\214\363\206\033\110\337\052\257\247\301\377\330\216\076\003
\273\330\052\260\372\024\045\262\121\153\206\103\205\056\007\043
\026\200\215\114\373\264\143\073\314\303\164\355\033\243\036\376
\065\017\137\174\035\026\206\365\016\303\225\361\057\257\135\045
\073\121\346\327\166\101\070\321\113\003\071\050\245\036\221\162
\324\175\253\227\063\304\323\076\340\151\266\050\171\240\011\215
\034\321\377\101\162\110\006\374\232\056\347\040\371\233\242\336
\211\355\256\074\011\257\312\127\263\222\211\160\100\344\057\117
\302\160\203\100\327\044\054\153\347\011\037\323\325\307\301\010
\364\333\016\073\034\007\013\103\021\204\041\206\351\200\324\165
\330\253\361\002\142\301\261\176\125\141\317\023\327\046\260\327
\234\313\051\213\070\112\013\016\220\215\272\241
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

```
# Microsoft Code Signing Only Certificate
# Trust for "CA "
# Issuer: CN=CA ,O=WoSign CA Limited,C=CN
# Serial Number:50:70:6b:cd:d8:13:fc:1b:4e:3b:33:72:d2:11:48:8d
# Subject: CN=CA ,O=WoSign CA Limited,C=CN
# Not Valid Before: Sat Aug 08 01:00:01 2009
# Not Valid After: Mon Aug 08 01:00:01 2039
# Fingerprint (MD5): 78:83:5b:52:16:76:c4:24:3b:83:78:e8:ac:da:9a:93
# Fingerprint
 (SHA1): 16:32:47:8d:89:f9:21:3a:92:00:85:63:f5:a4:a7:d3:12:40:8a:d6
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CA "
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\026\062\107\215\211\371\041\072\222\000\205\143\365\244\247\323
\022\100\212\326
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\170\203\133\122\026\166\304\044\073\203\170\350\254\332\232\223
END
CKA_ISSUER MULTILINE_OCTAL
\060\106\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\032\060\030\006\003\125\004\012\023\021\127\157\123\151\147\156
\040\103\101\040\114\151\155\151\164\145\144\061\033\060\031\006
\003\125\004\003\014\022\103\101\040\346\262\203\351\200\232\346
\240\271\350\257\201\344\271\246
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\120\160\153\315\330\023\374\033\116\073\063\162\322\021
\110\215
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING
 CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "SSC GDL CA Root B"
# Issuer: CN=SSC GDL CA Root B,OU=CA ROOT Services,O=Skaitmeninio sertifikavimo centras,C=LT
# Serial Number:3e:8c:4f:bc:e4:29:83:82:4d:84:55:8e:d5:35:80:cf
# Subject: CN=SSC GDL CA Root B,OU=CA ROOT Services,O=Skaitmeninio sertifikavimo centras,C=LT
# Not Valid Before: Tue Jun 04 14:20:15 2013
# Not Valid After: Sat Jun 04 14:21:55 2033
# Fingerprint (MD5): ca:b5:ab:b2:55:7b:93:36:32:53:23:ed:79:27:30:4a
# Fingerprint (SHA1): c8:60:a3:18:fc:f5:b7:13:0b:10:07:ad:7f:61:4a:40:ff:ff:18:5f
```

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSC GDL CA Root B"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\161\061\013\060\011\006\003\125\004\006\023\002\114\124\061
\053\060\051\006\003\125\004\012\023\042\123\153\141\151\164\155
\145\156\151\156\151\157\040\163\145\162\164\151\146\151\153\141
\166\151\155\157\040\143\145\156\164\162\141\163\061\031\060\027
\006\003\125\004\013\023\020\103\101\040\122\117\117\124\040\123
\145\162\166\151\143\145\163\061\032\060\030\006\003\125\004\003
\023\021\123\123\103\040\107\104\114\040\103\101\040\122\157\157
\164\040\102
END
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\161\061\013\060\011\006\003\125\004\006\023\002\114\124\061
\053\060\051\006\003\125\004\012\023\042\123\153\141\151\164\155
\145\156\151\156\151\157\040\163\145\162\164\151\146\151\153\141
\166\151\155\157\040\143\145\156\164\162\141\163\061\031\060\027
\006\003\125\004\013\023\020\103\101\040\122\117\117\124\040\123
\145\162\166\151\143\145\163\061\032\060\030\006\003\125\004\003
\023\021\123\123\103\040\107\104\114\040\103\101\040\122\157\157
\164\040\102
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\076\214\117\274\344\051\203\202\115\204\125\216\325\065
\200\317
END
CKA_VALUE
MULTILINE_OCTAL
\060\202\005\256\060\202\003\226\240\003\002\001\002\002\020\076
\214\117\274\344\051\203\202\115\204\125\216\325\065\200\317\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\161
\061\013\060\011\006\003\125\004\006\023\002\114\124\061\053\060
\051\006\003\125\004\012\023\042\123\153\141\151\164\155\145\156
\151\156\151\157\040\163\145\162\164\151\146\151\153\141\166\151
\155\157\040\143\145\156\164\162\141\163\061\031\060\027\006\003
\125\004\013\023\020\103\101\040\122\117\117\124\040\123\145\162
\166\151\143\145\163\061\032\060\030\006\003\125\004\003\023\021
\123\123\103\040\107\104\114\040\103\101\040\122\157\157\164\040
\102\060\036\027\015\061\063\060\066\060\064\061\064\062\060\061
\065\132\027\015\063\063\060\066\060\064\061\064\062\061\065\065
\132\060\161\061\013\060\011\006\003\125\004\006\023\002\114\124
\061\053\060\051\006\003\125\004\012\023\042\123\153\141\151\164

\155\145\156\151\156\151\157\040\163\145\162\164\151\146\151\153
\141\166\151\155\157\040\143\145\156\164\162\141\163\061\031\060
\027\006\003\125\004\013\023\020\103\101\040\122\117\117\124\040
\123\145\162\166\151\143\145\163\061\032\060\030\006\003\125\004
\003\023\021\123\123\103\040\107\104\114\040\103\101\040\122\157
\157\164\040\102\060\202\002\042\060\015\006\011\052\206\110\206
\367\015\001\001\001\005\000\003\202\002\017\000\060\202\002\012
\002\202\002\001\000\217\225\351\322\353\301\163\045\307\070\147
\360\203\216\123\274\266\313\316\272\163\333\117\047\366\042\220
\077\102\277\041\326\336\142\202\264\157\004\005\111\011\073\167
\001\327\113\137\122\322\331\031\307\155\174\014\251\072\011\142
\344\052\030\151\214\240\335\353\254\023\266\016\071\021\200\151
\116\143\137\334\074\015\372\331\214\142\276\144\205\062\062\131
\227\120\223\211\337\373\377\324\330\145\161\307\106\125\242\033
\231\141\037\334\120\000\310\027\171\350\120\260\014\136\346\376
\166\246\001\116\011\310\160\154\372\220\263\136\334\075\007\315
\111\243\116\126\136\022\117\144\101\177\176\014\025\303\240\336
\263\243\051\006\111\104\241\137\157\077\201\240\104\115\360\173
\012\070\050\355\022\356\143\227\303\173\135\214\117\161\335\225
\072\332\056\250\001\106\012\363\154\350\265\361\037\010\000\361
\100\222\033\046\000\061\165\071\106\111\046\271\244\324\161\167
\021\244\117\063\314\011\333\331\321\041\113\222\104\254\316\170
\142\202\027\373\372\022\264\175\325\362\206\355\364\176\226\024
\346\215\003\122\257\315\027\242\325\034\245\376\201\246\232\355
\175\344\331\016\062\146\020\217\333\331\063\061\201\176\051\127
\357\314\262\241\140\356\212\133\271\145\333\177\033\232\054\217
\047\061\211\212\050\265\257\261\126\324\003\042\356\045\117\330
\232\275\322\154\127\274\203\246\110\037\054\125\007\011\064\053
\271\171\054\002\245\240\137\174\166\237\044\062\074\055\222\337
\353\110\127\207\241\366\376\043\372\064\253\211\365\150\033\216
\037\252\156\016\245\322\041\322\357\271\321\261\111\127\065\132
\204\323\036\342\002\155\122\020\177\342\214\115\041\333\062\062
\034\175\314\226\042\003\055\152\247\006\102\155\156\220\207\372
\034\134\260\117\320\003\101\023\372\013\123\346\301\020\002\110
\013\167\143\364\245\234\121\173\230\146\327\305\166\062\345\157
\135\024\141\175\014\273\155\225\100\332\251\046\307\367\251\313
\322\376\047\301\053\366\261\150\206\376\343\142\122\231\120\216
\053\336\101\041\007\033\207\365\100\035\160\255\317\375\302\103
\250\065\126\021\102\305\313\136\146\241\310\250\150\367\376\114
\127\141\066\122\201\002\003\001\000\001\243\102\060\100\060\016
\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060\017
\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060
\035\006\003\125\035\016\004\026\004\024\162\003\106\207\141\366
\035\263\324\225\143\271\120\167\156\015\253\230\376\057\060\015
\006\011\052\206\110\206\367\015\001\001\013\005\000\003\202\002
\001\000\010\333\212\062\201\164\063\161\026\354\041\205\123\110
\012\157\037\162\343\343\004\370\056\267\077\363\044\225\117\234
\355\023\341\210\202\002\366\146\367\267\261\055\200\047\255\256

\270\155\376\043\007\021\010\253\164\141\214\050\022\371\366\020
\064\360\317\266\174\243\165\055\022\324\224\337\164\356\261\230
\253\261\356\042\142\113\131\037\177\376\032\145\255\115\342\244
\021\077\023\041\264\330\065\213\166\100\246\137\275\063\021\337
\230\343\041\136\035\243\273\170\066\002\073\330\375\144\204\332
\067\315\131\355\374\014\320\164\244\153\161\074\066\022\104\236
\176\156\117\012\041\034\145\037\113\022\154\277\216\162\326\335
\076\000\160\230\001\105\053\354\225\220\343\323\151\070\347\053
\235\176\145\131\133\341\333\205\312\143\376\253\277\344\320\375
\344\122\272\032\346\376\306\220\272\173\316\361\244\142\305\107
\276\044\307\240\172\345\041\341\306\010\340\014\211\203\217\200
\151\375\356\240\337\172\114\072\323\110\052\026\277\256\246\225
\265\335\150\037\373\016\265\005\214\321\262\104\174\140\060\126
\166\027\265\065\117\250\325\012\353\302\265\156\002\356\234\137
\016\243\261\001\250\345\123\157\176\203\101\037\025\330\377\341
\302\266\032\361\106\234\144\240\032\340\112\312\270\246\264\211
\044\356\173\225\231\142\324\342\100\273\316\243\232\175\035\162
\363\033\201\101\167\000\136\354\074\242\060\005\074\315\174\110
\066\023\310\062\260\153\157\237\070\050\070\151\134\173\346\342
\255\203\273\155\023\321\056\267\321\166\157\135\060\136\271\120
\105\110\326\110\200\223\121\311\026\251\020\135\147\306\313\176
\147\175\005\117\364\040\357\044\045\136\355\147\103\306\373\156
\171\373\262\362\310\311\316\101\174\005\340\255\213\315\012\105
\056\342\142\237\227\221\364\371\143\354\362\302\140\212\334\033
\377\041\250\377\043\207\214\163\215\260\072\314\037\217\061\162
\012\375\226\241\337\032\123\323\066\266\260\167\106\336\003\366
\302\200\056\157\227\043\341\021\314\121\230\077\356\100\377\364
\075\233\210\177\214\273\341\131\206\275\011\064\047\134\236\012
\223\062\073\125\052\251\136\013\015\017\251\246\121\004\342\233
\052\021
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL
 CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "SSC GDL CA Root B"
Issuer: CN=SSC GDL CA Root B,OU=CA ROOT Services,O=Skaitmeninio sertifikavimo centras,C=LT
Serial Number:3e:8c:4f:bc:e4:29:83:82:4d:84:55:8e:d5:35:80:cf
Subject: CN=SSC GDL CA Root B,OU=CA ROOT Services,O=Skaitmeninio sertifikavimo centras,C=LT
Not Valid Before: Tue Jun 04 14:20:15 2013
Not Valid After: Sat Jun 04 14:21:55 2033
Fingerprint (MD5): ca:b5:ab:b2:55:7b:93:36:32:53:23:ed:79:27:30:4a
Fingerprint (SHA1): c8:60:a3:18:fc:f5:b7:13:0b:10:07:ad:7f:61:4a:40:ff:ff:18:5f
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE

```
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSC GDL CA Root B"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\310\140\243\030\374\365\267\023\013\020\007\255\177\141\112\100
\377\377\030\137
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\312\265\253\262\125\173\223\066\062\123\043\355\171\047\060\112
END
CKA_ISSUER
 MULTILINE_OCTAL
\060\161\061\013\060\011\006\003\125\004\006\023\002\114\124\061
\053\060\051\006\003\125\004\012\023\042\123\153\141\151\164\155
\145\156\151\156\151\157\040\163\145\162\164\151\146\151\153\141
\166\151\155\157\040\143\145\156\164\162\141\163\061\031\060\027
\006\003\125\004\013\023\020\103\101\040\122\117\117\124\040\123
\145\162\166\151\143\145\163\061\032\060\030\006\003\125\004\003
\023\021\123\123\103\040\107\104\114\040\103\101\040\122\157\157
\164\040\102
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\076\214\117\274\344\051\203\202\115\204\125\216\325\065
\200\317
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "SAPO Class 2 Root CA"
# Issuer: 1.2.840.113549.1.9.1=pkiadmin@trustcentre.co.za,CN=SAPO
 Class 2 Root CA,OU=SAPO Trust Centre,O=South African Post Office Limited,L=Somerset West,ST=Western
Cape,C=ZA
# Serial Number: 1 (0x1)
# Subject: 1.2.840.113549.1.9.1=pkiadmin@trustcentre.co.za,CN=SAPO Class 2 Root CA,OU=SAPO Trust
Centre,O=South African Post Office Limited,L=Somerset West,ST=Western Cape,C=ZA
# Not Valid Before: Wed Sep 15 00:00:00 2010
# Not Valid After: Sat Sep 14 00:00:00 2030
# Fingerprint (MD5): 0a:7b:e7:df:15:44:93:ed:92:72:42:1a:28:4b:0c:ee
# Fingerprint (SHA1): e4:55:01:60:8a:a1:ef:89:e2:7b:8c:d3:c3:b3:4c:03:b0:38:e6:d7
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SAPO Class 2 Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
```

CKA_SUBJECT MULTILINE_OCTAL
\060\201\316\061\013\060\011\006\003\125\004\006\023\002\132\101
\061\025\060\023\006\003\125\004\010\023\014\127\145\163\164\145
\162\156\040\103\141\160\145\061\026\060\024\006\003\125\004\007
\023\015\123\157\155\145\162\163\145\164\040\127\145\163\164\061
\052\060\050\006\003\125\004\012\023\041\123\157\165\164\150\040
\101\146\162\151\143\141\156\040\120\157\163\164\040\117\146\146
\151\143\145\040\114\151\155\151\164\145\144\061\032\060\030\006
\003\125\004\013\023\021\123\101\120\117\040\124\162\165\163\164
\040\103\145\156\164\162\145\061\035\060\033\006\003\125\004\003
\023\024\123\101\120\117\040\103\154\141\163\163\040\062\040\122
\157\157\164\040\103\101\061\051\060\047\006\011\052\206\110\206
\367\015\001\011\001\026\032\160\153\151\141\144\155\151\156\100
\164\162\165\163\164\143\145\156\164\162\145\056\143\157\056\172
\141
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\316\061\013\060\011\006\003\125\004\006\023\002\132\101
\061\025\060\023\006\003\125\004\010\023\014\127\145\163\164\145
\162\156\040\103\141\160\145\061\026\060\024\006\003\125\004\007
\023\015\123\157\155\145\162\163\145\164\040\127\145\163\164\061
\052\060\050\006\003\125\004\012\023\041\123\157\165\164\150\040
\101\146\162\151\143\141\156\040\120\157\163\164\040\117\146\146
\151\143\145\040\114\151\155\151\164\145\144\061\032\060\030\006
\003\125\004\013\023\021\123\101\120\117\040\124\162\165\163\164
\040\103\145\156\164\162\145\061\035\060\033\006\003\125\004\003
\023\024\123\101\120\117\040\103\154\141\163\163\040\062\040\122
\157\157\164\040\103\101\061\051\060\047\006\011\052\206\110\206
\367\015\001\011\001\026\032\160\153\151\141\144\155\151\156\100
\164\162\165\163\164\143\145\156\164\162\145\056\143\157\056\172
\141
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\130\060\202\003\100\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\201\316\061\013\060\011\006\003\125\004\006\023\002\132\101\061
\025\060\023\006\003\125\004\010\023\014\127\145\163\164\145\162
\156\040\103\141\160\145\061\026\060\024\006\003\125\004\007\023
\015\123\157\155\145\162\163\145\164\040\127\145\163\164\061\052
\060\050\006\003\125\004\012\023\041\123\157\165\164\150\040\101
\146\162\151\143\141\156\040\120\157\163\164\040\117\146\146\151
\143\145\040\114\151\155\151\164\145\144\061\032\060\030\006\003

\125\004\013\023\021\123\101\120\117\040\124\162\165\163\164\040
\103\145\156\164\162\145\061\035\060\033\006\003\125\004\003\023
\024\123\101\120\117\040\103\154\141\163\163\040\062\040\122\157
\157\164\040\103\101\061\051\060\047\006\011\052\206\110\206\367
\015\001\011\001\026\032\160\153\151\141\144\155\151\156\100\164
\162\165\163\164\143\145\156\164\162\145\056\143\157\056\172\141
\060\036\027\015\061\060\060\071\061\065\060\060\060\060\060\060
\132\027\015\063\060\060\071\061\064\060\060\060\060\060\060\132
\060\201\316\061\013\060\011\006\003\125\004\006\023\002\132\101
\061\025\060\023\006\003\125\004\010\023\014\127\145\163\164\145
\162\156\040\103\141\160\145\061\026\060\024\006\003\125\004\007
\023\015\123\157\155\145\162\163\145\164\040\127\145\163\164\061
\052\060\050\006\003\125\004\012\023\041\123\157\165\164\150\040
\101\146\162\151\143\141\156\040\120\157\163\164\040\117\146\146
\151\143\145\040\114\151\155\151\164\145\144\061\032\060\030\006
\003\125\004\013\023\021\123\101\120\117\040\124\162\165\163\164
\040\103\145\156\164\162\145\061\035\060\033\006\003\125\004\003
\023\024\123\101\120\117\040\103\154\141\163\163\040\062\040\122
\157\157\164\040\103\101\061\051\060\047\006\011\052\206\110\206
\367\015\001\011\001\026\032\160\153\151\141\144\155\151\156\100
\164\162\165\163\164\143\145\156\164\162\145\056\143\157\056\172
\141\060\202\001\042\060\015\006\011\052\206\110\206\367\015\001
\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202\001
\001\000\267\174\151\174\140\365\154\046\364\252\034\027\177\135
\324\021\113\347\363\332\347\163\247\372\244\102\111\150\077\332
\245\100\134\006\150\137\116\314\275\276\201\070\044\055\314\046
\240\104\155\003\313\043\340\273\336\205\123\113\224\137\137\173
\252\310\032\227\376\327\043\223\355\260\152\275\330\374\000\076
\263\222\004\340\113\276\117\073\230\247\235\355\315\143\360\201
\347\154\230\324\154\140\125\000\345\271\074\346\064\225\135\340
\375\161\207\351\377\201\356\345\167\157\030\377\363\311\174\245
\225\335\202\334\024\331\242\341\276\315\047\163\273\105\133\077
\164\261\142\170\146\020\042\054\365\150\363\027\210\026\073\232
\033\035\373\024\256\015\272\362\220\125\242\325\060\326\053\225
\062\307\071\156\173\145\322\167\070\316\156\126\245\331\043\253
\070\262\073\121\205\300\035\033\267\021\057\005\151\107\330\002
\312\222\250\341\063\336\205\010\233\355\220\325\330\041\231\161
\277\266\365\163\357\147\010\230\144\322\362\052\172\113\041\026
\341\037\130\141\336\221\107\037\041\237\037\376\214\043\206\203
\030\047\002\003\001\000\001\243\077\060\075\060\016\006\003\125
\035\017\001\001\377\004\004\003\002\001\006\060\014\006\003\125
\035\023\004\005\060\003\001\001\377\060\035\006\003\125\035\016
\004\026\004\024\253\235\043\223\375\037\063\112\062\055\252\044
\132\362\055\144\251\001\232\101\060\015\006\011\052\206\110\206
\367\015\001\001\005\005\000\003\202\001\001\000\126\122\121\271
\017\002\341\366\056\234\261\061\132\246\370\316\274\356\002\204
\025\011\361\050\122\137\347\341\054\275\333\171\012\172\277\353
\142\236\325\206\107\051\356\164\060\354\114\165\265\036\343\252

\063\357\255\341\152\114\277\067\001\276\125\203\114\251\122\330
\067\230\120\157\150\335\107\101\267\054\060\310\156\114\007\054
\306\323\111\271\265\134\322\313\314\324\066\306\007\015\030\117
\077\143\000\304\354\266\210\373\001\144\143\255\321\367\167\174
\144\124\053\022\075\064\025\205\360\240\272\171\051\137\230\233
\102\352\256\301\250\237\023\211\212\155\351\270\070\311\141\355
\140\354\367\052\130\005\233\241\140\170\203\027\341\176\137\350
\375\170\340\153\126\052\206\166\256\133\302\136\353\105\344\060
\270\061\355\144\261\135\056\300\075\200\015\307\047\023\323\166
\342\206\373\334\333\200\012\201\341\375\010\371\013\304\061\264
\143\133\347\214\063\345\006\266\122\152\263\327\351\153\343\062
\170\062\146\224\116\335\215\167\155\323\044\050\133\124\141\167
\002\147\165\224\113\127\113\346\154\305\071\157
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "SAPO Class 2 Root CA"
Issuer: 1.2.840.113549.1.9.1=pkiadmin@trustcentre.co.za,CN=SAPO Class 2 Root CA,OU=SAPO Trust Centre,O=South African Post Office Limited,L=Somerset West,ST=Western Cape,C=ZA
Serial Number: 1 (0x1)
Subject: 1.2.840.113549.1.9.1=pkiadmin@trustcentre.co.za,CN=SAPO Class 2 Root CA,OU=SAPO Trust Centre,O=South African Post Office Limited,L=Somerset West,ST=Western Cape,C=ZA
Not Valid Before: Wed Sep 15 00:00:00 2010
Not Valid After: Sat Sep 14 00:00:00 2030
Fingerprint (MD5): 0a:7b:e7:df:15:44:93:ed:92:72:42:1a:28:4b:0c:ee
Fingerprint (SHA1): e4:55:01:60:8a:a1:ef:89:e2:7b:8c:d3:c3:b3:4c:03:b0:38:e6:d7
CKA_CLASS
 CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SAPO Class 2 Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\344\125\001\140\212\241\357\211\342\173\214\323\303\263\114\003
\260\070\346\327
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\012\173\347\337\025\104\223\355\222\162\102\032\050\113\014\356
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\316\061\013\060\011\006\003\125\004\006\023\002\132\101
\061\025\060\023\006\003\125\004\010\023\014\127\145\163\164\145
\162\156\040\103\141\160\145\061\026\060\024\006\003\125\004\007
\023\015\123\157\155\145\162\163\145\164\040\127\145\163\164\061

\052\060\050\006\003\125\004\012\023\041\123\157\165\164\150\040
\101\146\162\151\143\141\156\040\120\157\163\164\040\117\146\146
\151\143\145\040\114\151\155\151\164\145\144\061\032\060\030\006
\003\125\004\013\023\021\123\101\120\117\040\124\162\165\163\164
\040\103\145\156\164\162\145\061\035\060\033\006\003\125\004\003
\023\024\123\101\120\117\040\103\154\141\163\163\040\062\040\122
\157\157\164\040\103\101\061\051\060\047\006\011\052\206\110\206
\367\015\001\011\001\026\032\160\153\151\141\144\155\151\156\100
\164\162\165\163\164\143\145\156\164\162\145\056\143\157\056\172
\141
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "SAPO Class 3 Root CA"
Issuer: 1.2.840.113549.1.9.1=pkiadmin@trustcentre.co.za,CN=SAPO Class 3 Root CA,OU=SAPO Trust Centre,O=South African Post Office Limited,L=Somerset West,ST=Western Cape,C=ZA
Serial Number: 2 (0x2)
Subject: 1.2.840.113549.1.9.1=pkiadmin@trustcentre.co.za,CN=SAPO Class 3 Root CA,OU=SAPO Trust Centre,O=South African Post
Office Limited,L=Somerset West,ST=Western Cape,C=ZA
Not Valid Before: Wed Sep 15 00:00:00 2010
Not Valid After: Sat Sep 14 00:00:00 2030
Fingerprint (MD5): 54:e5:eb:35:d1:75:05:3c:7c:df:30:d6:bf:f3:ff:53
Fingerprint (SHA1): 38:dd:76:59:c7:35:10:0b:00:a2:37:e4:91:b7:bc:0f:fc:d2:31:6c
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SAPO Class 3 Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\316\061\013\060\011\006\003\125\004\006\023\002\132\101
\061\025\060\023\006\003\125\004\010\023\014\127\145\163\164\145
\162\156\040\103\141\160\145\061\026\060\024\006\003\125\004\007
\023\015\123\157\155\145\162\163\145\164\040\127\145\163\164\061
\052\060\050\006\003\125\004\012\023\041\123\157\165\164\150\040
\101\146\162\151\143\141\156\040\120\157\163\164\040\117\146\146
\151\143\145\040\114\151\155\151\164\145\144\061\032\060\030\006
\003\125\004\013\023\021\123\101\120\117\040\124\162\165\163\164
\040\103\145\156\164\162\145\061\035\060\033\006\003\125\004\003

\023\024\123\101\120\117\040\103\154\141\163\163\040\063\040\122
\157\157\164\040\103\101\061\051\060\047\006\011\052\206\110\206
\367\015\001\011\001\026\032\160\153\151\141\144\155\151\156\100
\164\162\165\163\164\143\145\156\164\162\145\056\143\157\056\172
\141
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\316\061\013\060\011\006\003\125\004\006\023\002\132\101
\061\025\060\023\006\003\125\004\010\023\014\127\145\163\164\145
\162\156\040\103\141\160\145\061\026\060\024\006\003\125\004\007
\023\015\123\157\155\145\162\163\145\164\040\127\145\163\164\061
\052\060\050\006\003\125\004\012\023\041\123\157\165\164\150\040
\101\146\162\151\143\141\156\040\120\157\163\164\040\117\146\146
\151\143\145\040\114\151\155\151\164\145\144\061\032\060\030\006
\003\125\004\013\023\021\123\101\120\117\040\124\162\165\163\164
\040\103\145\156\164\162\145\061\035\060\033\006\003\125\004\003
\023\024\123\101\120\117\040\103\154\141\163\163\040\063\040\122
\157\157\164\040\103\101\061\051\060\047\006\011\052\206\110\206
\367\015\001\011\001\026\032\160\153\151\141\144\155\151\156\100
\164\162\165\163\164\143\145\156\164\162\145\056\143\157\056\172
\141
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\001\002
END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\130\060\202\004\100\240\003\002\001\002\002\001\002
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\201\316\061\013\060\011\006\003\125\004\006\023\002\132\101\061
\025\060\023\006\003\125\004\010\023\014\127\145\163\164\145\162
\156\040\103\141\160\145\061\026\060\024\006\003\125\004\007\023
\015\123\157\155\145\162\163\145\164\040\127\145\163\164\061\052
\060\050\006\003\125\004\012\023\041\123\157\165\164\150\040\101
\146\162\151\143\141\156\040\120\157\163\164\040\117\146\146\151
\143\145\040\114\151\155\151\164\145\144\061\032\060\030\006\003
\125\004\013\023\021\123\101\120\117\040\124\162\165\163\164\040
\103\145\156\164\162\145\061\035\060\033\006\003\125\004\003\023
\024\123\101\120\117\040\103\154\141\163\163\040\063\040\122\157
\157\164\040\103\101\061\051\060\047\006\011\052\206\110\206\367
\015\001\011\001\026\032\160\153\151\141\144\155\151\156\100\164
\162\165\163\164\143\145\156\164\162\145\056\143\157\056\172\141
\060\036\027\015\061\060\060\071\061\065\060\060\060\060\060\060
\132\027\015\063\060\060\071\061\064\060\060\060\060\060\060\132
\060\201\316\061\013\060\011\006\003\125\004\006\023\002\132\101
\061\025\060\023\006\003\125\004\010\023\014\127\145\163\164\145

\162\156\040\103\141\160\145\061\026\060\024\006\003\125\004\007
\023\015\123\157\155\145\162\163\145\164\040\127\145\163\164\061
\052\060\050\006\003\125\004\012\023\041\123\157\165\164\150\040
\101\146\162\151\143\141\156\040\120\157\163\164\040\117\146\146
\151\143\145\040\114\151\155\151\164\145\144\061\032\060\030\006
\003\125\004\013\023\021\123\101\120\117\040\124\162\165\163\164
\040\103\145\156\164\162\145\061\035\060\033\006\003\125\004\003
\023\024\123\101\120\117\040\103\154\141\163\163\040\063\040\122
\157\157\164\040\103\101\061\051\060\047\006\011\052\206\110\206
\367\015\001\011\001\026\032\160\153\151\141\144\155\151\156\100
\164\162\165\163\164\143\145\156\164\162\145\056\143\157\056\172
\141\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001
\001\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002
\001\000\312\170\032\007\274\366\373\264\267\211\274\320\031\126
\070\052\131\235\007\352\032\371\370\370\150\147\136\217\357\312
\367\365\152\211\346\243\225\177\251\333\051\044\034\065\320\070
\226\154\076\126\044\377\136\142\121\220\056\207\350\234\307\332
\274\063\361\236\241\157\013\216\012\044\364\370\115\220\246\262
\315\136\021\323\302\227\114\365\137\100\035\046\044\115\215\011
\020\013\377\273\040\033\223\046\031\014\103\077\351\216\274\061
\067\020\156\221\312\110\202\126\106\307\274\271\072\236\106\201
\146\317\331\350\134\020\317\071\236\145\303\236\305\132\364\113
\314\104\231\146\206\364\162\033\243\123\111\352\256\107\315\062
\015\160\346\240\240\166\007\235\377\130\357\344\074\221\300\265
\344\334\270\001\014\323\376\263\102\240\073\141\002\324\067\133
\327\114\105\225\322\165\135\365\156\060\137\127\121\213\262\377
\176\310\213\234\252\243\101\067\014\020\221\250\246\205\134\271
\307\217\005\121\262\320\170\322\342\113\111\351\324\032\247\073
\254\252\063\346\232\052\003\100\230\157\164\122\023\061\224\321
\022\301\264\313\060\371\377\104\270\222\133\122\326\060\331\063
\321\165\343\031\245\026\025\267\124\127\361\126\120\316\116\276
\003\073\057\354\266\060\356\024\140\136\137\172\065\364\116\144
\007\021\352\245\007\146\033\156\223\342\260\117\136\326\340\104
\340\263\334\256\357\270\375\250\263\354\354\345\071\210\104\264
\241\273\024\140\144\217\326\222\223\313\363\314\120\335\351\007
\310\147\147\371\360\207\204\221\262\000\142\351\277\112\025\164
\305\277\004\114\005\106\135\012\313\345\352\141\000\341\157\101
\261\064\216\246\000\242\174\246\245\246\372\154\114\103\345\250
\046\232\064\230\036\207\230\347\114\170\321\217\237\005\125\135
\212\113\311\317\240\013\175\006\220\234\030\222\262\304\262\327
\343\105\331\153\163\303\227\071\277\051\036\006\011\125\100\272
\274\332\110\165\103\355\376\104\176\075\054\346\142\221\003\375
\075\211\357\176\364\135\044\217\245\013\053\263\076\172\051\050
\274\273\077\277\353\167\205\004\046\213\224\262\220\365\353\215
\117\242\104\042\120\250\234\052\104\110\000\170\031\253\235\010
\226\025\002\003\001\000\001\243\077\060\075\060\016\006\003\125
\035\017\001\001\377\004\004\003\002\001\006\060\014\006\003\125
\035\023\004\005\060\003\001\001\377\060\035\006\003\125\035\016

\004\026\004\024\141\263\171\122\235\112\225\222\121\216\202\044
\160\323\216\100\310\305\146\320\060\015\006\011\052\206\110\206
\367\015\001\001\005\005\000\003\202\002\001\000\177\306\263\044
\204\120\067\371\304\260\305\060\074\026\351\120\015\172\272\264
\073\322\043\345\351\211\170\152\345\343\033\005\036\221\034\316
\006\227\215\146\026\007\104\357\201\271\010\176\243\307\071\064
\270\277\232\155\215\260\301\040\102\056\015\367\013\006\003\117
\156\313\274\267\260\057\031\161\215\216\257\012\115\130\061\213
\104\231\052\050\146\205\307\200\046\146\260\107\302\071\262\372
\117\076\125\275\334\211\047\113\163\063\004\376\173\107\220\311
\005\300\055\063\370\267\010\202\051\101\103\375\046\123\346\372
\037\067\126\215\117\027\272\330\375\072\204\160\330\076\360\063
\256\304\005\110\124\241\271\325\041\077\352\076\307\251\061\107
\367\233\256\112\142\230\321\147\040\145\336\171\341\261\062\036
\153\337\373\200\153\107\134\071\307\016\010\252\307\243\356\051
\351\064\342\233\371\165\270\046\353\210\235\264\071\021\056\160
\375\121\004\062\273\017\171\204\120\041\105\174\057\344\331\377
\045\070\006\043\253\116\261\016\334\073\061\012\255\332\113\000
\151\153\056\342\303\014\311\005\001\105\146\341\245\211\141\034
\144\231\215\013\230\220\263\176\146\073\013\330\253\350\165\016
\331\177\232\156\175\311\203\047\311\274\350\064\070\302\132\207
\062\162\007\014\376\325\224\321\360\300\170\362\200\250\106\365
\153\232\354\342\331\026\216\212\372\204\366\321\122\311\234\262
\041\126\140\103\246\020\367\177\111\277\276\007\323\120\144\155
\002\272\052\125\054\317\331\302\156\257\174\013\110\320\361\341
\247\302\255\164\217\206\344\355\252\372\134\203\175\102\350\175
\007\035\007\125\314\053\151\062\271\167\202\150\306\167\362\042
\151\246\311\012\135\207\231\345\161\236\175\057\023\036\322\364
\375\011\171\047\130\053\012\207\201\052\373\152\043\055\113\044
\205\164\026\107\030\017\011\305\376\251\110\044\343\254\320\151
\075\137\123\230\062\275\354\340\121\301\123\112\261\366\073\360
\064\110\365\232\336\334\321\340\343\275\045\263\104\350\072\163
\311\171\320\254\321\355\342\000\012\137\241\035\146\131\112\163
\150\324\005\162\063\070\247\153\257\221\333\015\307\214\100\350
\236\220\210\311\373\376\044\327\201\254\363\336
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "SAPO Class 3 Root CA"
Issuer: 1.2.840.113549.1.9.1=pkiadmin@trustcentre.co.za,CN=SAPO Class 3 Root CA,OU=SAPO Trust Centre,O=South African Post Office Limited,L=Somerset West,ST=Western Cape,C=ZA
Serial Number: 2 (0x2)
Subject: 1.2.840.113549.1.9.1=pkiadmin@trustcentre.co.za,CN=SAPO Class 3 Root CA,OU=SAPO Trust Centre,O=South African Post Office Limited,L=Somerset West,ST=Western Cape,C=ZA

```
# Not Valid Before: Wed Sep 15 00:00:00 2010
# Not Valid After: Sat Sep 14 00:00:00 2030
# Fingerprint (MD5): 54:e5:eb:35:d1:75:05:3c:7c:df:30:d6:bf:f3:ff:53
# Fingerprint (SHA1): 38:dd:76:59:c7:35:10:0b:00:a2:37:e4:91:b7:bc:0f:fc:d2:31:6c
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SAPO Class 3 Root CA"
CKA_CERT_SHA1_HASH
 MULTILINE_OCTAL
\070\335\166\131\307\065\020\013\000\242\067\344\221\267\274\017
\374\322\061\154
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\124\345\353\065\321\165\005\074\174\337\060\326\277\363\377\123
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\316\061\013\060\011\006\003\125\004\006\023\002\132\101
\061\025\060\023\006\003\125\004\010\023\014\127\145\163\164\145
\162\156\040\103\141\160\145\061\026\060\024\006\003\125\004\007
\023\015\123\157\155\145\162\163\145\164\040\127\145\163\164\061
\052\060\050\006\003\125\004\012\023\041\123\157\165\164\150\040
\101\146\162\151\143\141\156\040\120\157\163\164\040\117\146\146
\151\143\145\040\114\151\155\151\164\145\144\061\032\060\030\006
\003\125\004\013\023\021\123\101\120\117\040\124\162\165\163\164
\040\103\145\156\164\162\145\061\035\060\033\006\003\125\004\003
\023\024\123\101\120\117\040\103\154\141\163\163\040\063\040\122
\157\157\164\040\103\101\061\051\060\047\006\011\052\206\110\206
\367\015\001\011\001\026\032\160\153\151\141\144\155\151\156\100
\164\162\165\163\164\143\145\156\164\162\145\056\143\157\056\172
\141
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\001\002
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "SAPO Class 4 Root CA"
# Issuer: 1.2.840.113549.1.9.1=pkiadmin@trustcentre.co.za,CN=SAPO Class 4 Root CA,OU=SAPO Trust
Centre,O=South African Post Office Limited,L=Somerset West,ST=Western Cape,C=ZA
# Serial Number: 3 (0x3)
# Subject: 1.2.840.113549.1.9.1=pkiadmin@trustcentre.co.za,CN=SAPO Class 4 Root CA,OU=SAPO Trust
```

```
Centre,O=South African Post Office Limited,L=Somerset West,ST=Western Cape,C=ZA
# Not Valid Before: Wed Sep 15 00:00:00 2010
# Not Valid After: Sat Sep 14 00:00:00 2030
# Fingerprint (MD5): f8:a7:f6:89:94:8c:61:f7:43:98:36:df:22:82:9b:3b
# Fingerprint (SHA1):
 20:a8:f5:ff:c4:3a:f4:a9:bc:89:88:1e:bf:99:20:ff:91:e9:fd:0a
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SAPO Class 4 Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\316\061\013\060\011\006\003\125\004\006\023\002\132\101
\061\025\060\023\006\003\125\004\010\023\014\127\145\163\164\145
\162\156\040\103\141\160\145\061\026\060\024\006\003\125\004\007
\023\015\123\157\155\145\162\163\145\164\040\127\145\163\164\061
\052\060\050\006\003\125\004\012\023\041\123\157\165\164\150\040
\101\146\162\151\143\141\156\040\120\157\163\164\040\117\146\146
\151\143\145\040\114\151\155\151\164\145\144\061\032\060\030\006
\003\125\004\013\023\021\123\101\120\117\040\124\162\165\163\164
\040\103\145\156\164\162\145\061\035\060\033\006\003\125\004\003
\023\024\123\101\120\117\040\103\154\141\163\163\040\064\040\122
\157\157\164\040\103\101\061\051\060\047\006\011\052\206\110\206
\367\015\001\011\001\026\032\160\153\151\141\144\155\151\156\100
\164\162\165\163\164\143\145\156\164\162\145\056\143\157\056\172
\141
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\316\061\013\060\011\006\003\125\004\006\023\002\132\101
\061\025\060\023\006\003\125\004\010\023\014\127\145\163\164\145
\162\156\040\103\141\160\145\061\026\060\024\006\003\125\004\007
\023\015\123\157\155\145\162\163\145\164\040\127\145\163\164\061
\052\060\050\006\003\125\004\012\023\041\123\157\165\164\150\040
\101\146\162\151\143\141\156\040\120\157\163\164\040\117\146\146
\151\143\145\040\114\151\155\151\164\145\144\061\032\060\030\006
\003\125\004\013\023\021\123\101\120\117\040\124\162\165\163\164
\040\103\145\156\164\162\145\061\035\060\033\006\003\125\004\003
\023\024\123\101\120\117\040\103\154\141\163\163\040\064\040\122
\157\157\164\040\103\101\061\051\060\047\006\011\052\206\110\206
\367\015\001\011\001\026\032\160\153\151\141\144\155\151\156\100
\164\162\165\163\164\143\145\156\164\162\145\056\143\157\056\172
\141
END
CKA_SERIAL_NUMBER
```

MULTILINE_OCTAL
\002\001\003
END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\130\060\202\004\100\240\003\002\001\002\002\001\003
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\201\316\061\013\060\011\006\003\125\004\006\023\002\132\101\061
\025\060\023\006\003\125\004\010\023\014\127\145\163\164\145\162
\156\040\103\141\160\145\061\026\060\024\006\003\125\004\007\023
\015\123\157\155\145\162\163\145\164\040\127\145\163\164\061\052
\060\050\006\003\125\004\012\023\041\123\157\165\164\150\040\101
\146\162\151\143\141\156\040\120\157\163\164\040\117\146\146\151
\143\145\040\114\151\155\151\164\145\144\061\032\060\030\006\003
\125\004\013\023\021\123\101\120\117\040\124\162\165\163\164\040
\103\145\156\164\162\145\061\035\060\033\006\003\125\004\003\023
\024\123\101\120\117\040\103\154\141\163\163\040\064\040\122\157
\157\164\040\103\101\061\051\060\047\006\011\052\206\110\206\367
\015\001\011\001\026\032\160\153\151\141\144\155\151\156\100\164
\162\165\163\164\143\145\156\164\162\145\056\143\157\056\172\141
\060\036\027\015\061\060\060\071\061\065\060\060\060\060\060\060
\132\027\015\063\060\060\071\061\064\060\060\060\060\060\060\132
\060\201\316\061\013\060\011\006\003\125\004\006\023\002\132\101
\061\025\060\023\006\003\125\004\010\023\014\127\145\163\164\145
\162\156\040\103\141\160\145\061\026\060\024\006\003\125\004\007
\023\015\123\157\155\145\162\163\145\164\040\127\145\163\164\061
\052\060\050\006\003\125\004\012\023\041\123\157\165\164\150\040
\101\146\162\151\143\141\156\040\120\157\163\164\040\117\146\146
\151\143\145\040\114\151\155\151\164\145\144\061\032\060\030\006
\003\125\004\013\023\021\123\101\120\117\040\124\162\165\163\164
\040\103\145\156\164\162\145\061\035\060\033\006\003\125\004\003
\023\024\123\101\120\117\040\103\154\141\163\163\040\064\040\122
\157\157\164\040\103\101\061\051\060\047\006\011\052\206\110\206
\367\015\001\011\001\026\032\160\153\151\141\144\155\151\156\100
\164\162\165\163\164\143\145\156\164\162\145\056\143\157\056\172
\141\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001
\001\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002
\001\000\333\334\355\110\232\240\243\237\340\021\216\331\310\222
\165\072\125\301\121\042\312\013\172\244\065\015\305\346\127\055
\203\360\052\157\042\070\067\061\155\174\205\044\242\006\057\103
\202\075\105\060\100\045\034\356\130\107\101\346\360\236\000\036
\370\364\057\021\273\222\262\230\105\055\323\037\200\311\166\024
\023\303\314\100\346\255\353\071\140\374\317\310\337\052\375\214
\022\121\357\317\014\144\306\127\350\043\121\135\347\146\122\352
\146\275\223\177\235\172\050\361\031\160\156\204\237\060\107\267
\260\071\153\023\054\353\113\115\056\257\077\277\375\002\023\112
\071\347\076\063\305\020\221\121\276\017\107\235\115\122\374\054
\363\343\023\242\000\202\341\024\014\315\322\236\263\362\340\201
\332\276\231\222\123\343\175\231\167\103\341\341\110\051\201\236

\326\005\127\072\161\334\076\230\255\130\160\157\106\273\176\062
\003\342\203\233\131\127\367\370\263\315\124\026\354\266\255\241
\034\032\222\321\324\051\236\217\315\263\350\175\120\361\302\202
\254\272\275\264\165\126\240\365\105\135\030\175\054\214\361\173
\101\314\206\261\232\204\113\012\052\135\233\226\341\315\372\253
\026\047\101\347\225\065\246\313\212\247\226\363\245\314\121\371
\055\175\036\103\373\334\155\265\271\070\275\005\373\130\372\056
\323\354\136\144\055\257\130\001\112\174\042\106\323\101\313\075
\344\226\136\111\103\070\273\211\353\364\234\151\071\022\003\134
\204\273\345\214\036\352\340\146\273\300\277\214\376\236\012\115
\075\150\077\100\166\326\062\251\352\105\270\152\007\122\216\315
\121\361\135\050\143\014\323\131\070\374\311\375\202\311\105\040
\274\346\350\314\242\014\313\173\144\071\111\106\105\365\163\034
\152\227\040\353\041\102\367\264\040\122\267\112\375\165\274\313
\017\014\147\021\127\037\367\060\361\253\220\314\135\074\226\005
\142\323\312\125\001\113\106\305\200\207\034\162\320\163\124\041
\352\327\243\234\323\256\177\324\123\331\050\374\127\336\345\077
\122\112\273\310\046\044\107\123\034\163\272\317\306\264\060\315
\136\161\307\126\274\111\070\045\346\305\020\011\170\331\324\035
\134\315\156\355\333\221\134\241\123\024\126\252\215\047\251\246
\216\033\002\003\001\000\001\243\077\060\075\060\016\006\003\125
\035\017\001\001\377\004\004\003\002\001\006\060\014\006\003\125
\035\023\004\005\060\003\001\001\377\060\035\006\003\125\035\016
\004\026\004\024\026\204\055\373\033\347\264\036\150\230\323\102
\040\032\156\176\117\221\127\002\060\015\006\011\052\206\110\206
\367\015\001\001\005\005\000\003\202\002\001\000\173\343\015\143
\072\144\040\155\314\374\054\270\351\326\253\333\327\253\046\051
\107\242\014\126\355\165\314\225\231\122\066\313\040\373\021\064
\027\102\116\165\005\260\330\344\270\260\204\057\230\031\271\373
\320\071\154\162\006\030\311\134\212\172\164\010\067\110\151\375
\042\241\135\305\327\170\023\360\050\102\101\303\311\303\071\011
\007\324\241\370\067\042\151\344\337\062\125\157\302\174\271\223
\361\262\067\165\314\256\322\063\226\214\066\367\001\355\343\144
\351\013\150\133\020\252\001\066\231\174\317\232\224\135\375\032
\131\141\242\145\025\175\236\027\144\324\237\123\230\001\375\161
\127\320\135\100\021\026\077\077\104\322\257\311\374\010\062\175
\166\370\325\103\350\334\066\150\007\303\116\303\226\227\127\306
\175\066\136\333\160\255\376\256\324\210\235\265\244\140\326\243
\142\276\174\371\064\036\374\273\364\112\162\305\203\036\106\150
\303\016\227\203\030\075\323\016\012\021\065\174\151\225\305\253
\052\365\310\071\020\115\014\211\060\051\211\111\033\104\227\221
\364\352\145\041\033\077\012\103\162\202\034\155\021\135\340\042
\105\137\141\114\242\246\372\337\243\106\272\341\201\140\154\062
\264\374\344\334\066\005\344\063\367\353\217\167\111\252\215\012
\357\110\212\346\101\227\176\073\253\103\207\362\010\140\013\157
\327\131\146\375\053\273\057\316\063\117\162\340\266\327\263\123
\127\211\360\073\274\156\342\020\277\163\076\142\217\245\010\351
\123\147\301\116\301\056\102\103\247\262\244\371\026\213\102\356

\334\064\177\110\263\220\333\044\342\310\344\123\065\123\234\352
\067\205\317\277\230\006\065\107\046\327\256\155\335\204\251\143
\130\046\101\365\165\062\056\141\236\117\223\122\122\366\132\043
\353\301\240\163\046\045\042\102\221\221\221\200\117\377\210\316
\136\163\347\226\302\355\011\022\367\166\226\251\171\142\220\111
\201\203\237\014\062\062\342\133\312\335\110\064\254\207\216\161
\225\256\114\344\174\170\035\247\121\303\275\021\372\002\321\225
\211\163\010\106\042\211\151\000\317\117\200\301\115\133\224\304
\312\231\121\230\057\015\275\175\124\144\324\012\332\047\131\247
\067\273\126\014\320\006\242\162\271\022\271\133
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "SAPO Class 4 Root CA"
Issuer: 1.2.840.113549.1.9.1=pkiadmin@trustcentre.co.za,CN=SAPO Class 4 Root CA,OU=SAPO Trust Centre,O=South African Post Office Limited,L=Somerset West,ST=Western Cape,C=ZA
Serial Number: 3 (0x3)
Subject: 1.2.840.113549.1.9.1=pkiadmin@trustcentre.co.za,CN=SAPO Class 4 Root CA,OU=SAPO Trust Centre,O=South African Post Office Limited,L=Somerset West,ST=Western Cape,C=ZA
Not Valid Before: Wed Sep 15 00:00:00 2010
Not Valid After: Sat Sep 14 00:00:00 2030
Fingerprint (MD5): f8:a7:f6:89:94:8c:61:f7:43:98:36:df:22:82:9b:3b
Fingerprint (SHA1): 20:a8:f5:ff:c4:3a:f4:a9:bc:89:88:1e:bf:99:20:ff:91:e9:fd:0a

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SAPO Class 4 Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\040\250\365\377\304\072\364\251\274\211\210\036\277\231\040\377
\221\351\375\012
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\370\247\366\211\224\214\141\367\103\230\066\337\042\202\233\073
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\316\061\013\060\011\006\003\125\004\006\023\002\132\101
\061\025\060\023\006\003\125\004\010\023\014\127\145\163\164\145
\162\156\040\103\141\160\145\061\026\060\024\006\003\125\004\007
\023\015\123\157\155\145\162\163\145\164\040\127\145\163\164\061
\052\060\050\006\003\125\004\012\023\041\123\157\165\164\150\040
\101\146\162\151\143\141\156\040\120\157\163\164\040\117\146\146
\151\143\145\040\114\151\155\151\164\145\144\061\032\060\030\006

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\003\125\004\013\023\021\123\101\120\117\040\124\162\165\163\164
\040\103\145\156\164\162\145\061\035\060\033\006\003\125\004\003
\023\024\123\101\120\117\040\103\154\141\163\163\040\064\040\122
\157\157\164\040\103\101\061\051\060\047\006\011\052\206\110\206
\367\015\001\011\001\026\032\160\153\151\141\144\155\151\156\100
\164\162\165\163\164\143\145\156\164\162\145\056\143\157\056\172
\141
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\001\003
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION
 CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "CA Disig Root R1"
# Issuer: CN=CA Disig Root R1,O=Disig a.s.,L=Bratislava,C=SK
# Serial Number:c3:03:9a:ee:50:90:6e:28
# Subject: CN=CA Disig Root R1,O=Disig a.s.,L=Bratislava,C=SK
# Not Valid Before: Thu Jul 19 09:06:56 2012
# Not Valid After: Sat Jul 19 09:06:56 2042
# Fingerprint (MD5): be:ec:11:93:9a:f5:69:21:bc:d7:c1:c0:67:89:cc:2a
# Fingerprint (SHA1): 8e:1c:74:f8:a6:20:b9:e5:8a:f4:61:fa:ec:2b:47:56:51:1a:52:c6
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CA Disig Root R1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\122\061\013\060\011\006\003\125\004\006\023\002\123\113\061
\023\060\021\006\003\125\004\007\023\012\102\162\141\164\151\163
\154\141\166\141\061\023\060\021\006\003\125\004\012\023\012\104
\151\163\151\147\040\141\056\163\056\061\031\060\027\006\003\125
\004\003\023\020\103\101\040\104\151\163\151\147\040\122\157\157
\164\040\122\061
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\122\061\013\060\011\006\003\125\004\006\023\002\123\113\061
\023\060\021\006\003\125\004\007\023\012\102\162\141\164\151\163
\154\141\166\141\061\023\060\021\006\003\125\004\012\023\012\104
\151\163\151\147\040\141\056\163\056\061\031\060\027\006\003\125
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\004\003\023\020\103\101\040\104\151\163\151\147\040\122\157\157
\164\040\122\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\303\003\232\356\120\220\156\050
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\151\060\202\003\121\240\003\002\001\002\002\011\000
\303\003\232\356\120\220\156\050\060\015\006\011\052\206\110\206
\367\015\001\001\005\005\000\060\122\061\013\060\011\006\003\125
\004\006\023\002\123\113\061\023\060\021\006\003\125\004\007\023
\012\102\162\141\164\151\163\154\141\166\141\061\023\060\021\006
\003\125\004\012\023\012\104\151\163\151\147\040\141\056\163\056
\061\031\060\027\006\003\125\004\003\023\020\103\101\040\104\151
\163\151\147\040\122\157\157\164\040\122\061\060\036\027\015\061
\062\060\067\061\071\060\071\060\066\065\066\132\027\015\064\062
\060\067\061\071\060\071\060\066\065\066\132\060\122\061\013\060
\011\006\003\125\004\006\023\002\123\113\061\023\060\021\006\003
\125\004\007\023\012\102\162\141\164\151\163\154\141\166\141\061
\023\060\021\006\003\125\004\012\023\012\104\151\163\151\147\040
\141\056\163\056\061\031\060\027\006\003\125\004\003\023\020\103
\101\040\104\151\163\151\147\040\122\157\157\164\040\122\061\060
\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001
\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001\000
\252\303\170\367\334\230\243\247\132\136\167\030\262\335\004\144
\017\143\375\233\226\011\200\325\350\252\245\342\234\046\224\072
\350\231\163\214\235\337\327\337\203\363\170\117\100\341\177\322
\247\322\345\312\023\223\347\355\306\167\137\066\265\224\257\350
\070\216\333\233\345\174\273\314\215\353\165\163\341\044\315\346
\247\055\031\056\330\326\212\153\024\353\010\142\012\330\334\263
\000\115\303\043\174\137\103\010\043\062\022\334\355\014\255\300
\175\017\245\172\102\331\132\160\331\277\247\327\001\034\366\233
\253\216\267\112\206\170\240\036\126\061\256\357\202\012\200\101
\367\033\311\256\253\062\046\324\054\153\355\175\153\344\342\136
\042\012\105\313\204\061\115\254\376\333\321\107\272\371\140\227
\071\261\145\307\336\373\231\344\012\042\261\055\115\345\110\046
\151\253\342\252\363\373\374\222\051\062\351\263\076\115\037\047
\241\315\216\271\027\373\045\076\311\156\363\167\332\015\022\366
\135\307\273\066\020\325\124\326\363\340\342\107\110\346\336\024
\332\141\122\257\046\264\365\161\117\311\327\322\006\337\143\312
\377\041\350\131\006\340\010\325\204\025\123\367\103\345\174\305
\240\211\230\153\163\306\150\316\145\336\275\177\005\367\261\356
\366\127\241\140\225\305\314\352\223\072\276\231\256\233\002\243
\255\311\026\265\316\335\136\231\170\176\032\071\176\262\300\005
\244\300\202\245\243\107\236\214\352\134\266\274\147\333\346\052
\115\322\004\334\243\256\105\367\274\213\234\034\247\326\325\003
\334\010\313\056\026\312\134\100\063\350\147\303\056\347\246\104
\352\021\105\034\065\145\055\036\105\141\044\033\202\056\245\235

\063\135\145\370\101\371\056\313\224\077\037\243\014\061\044\104
\355\307\136\255\120\272\306\101\233\254\360\027\145\300\370\135
\157\133\240\012\064\074\356\327\352\210\237\230\371\257\116\044
\372\227\262\144\166\332\253\364\355\343\303\140\357\325\371\002
\310\055\237\203\257\147\151\006\247\061\125\325\317\113\157\377
\004\005\307\130\254\137\026\033\345\322\243\353\061\333\037\063
\025\115\320\362\245\123\365\313\341\075\116\150\055\330\022\335
\252\362\346\115\233\111\345\305\050\241\272\260\132\306\240\265
\002\003\001\000\001\243\102\060\100\060\017\006\003\125\035\023
\001\001\377\004\005\060\003\001\001\377\060\016\006\003\125\035
\017\001\001\377\004\004\003\002\001\006\060\035\006\003\125\035
\016\004\026\004\024\211\012\264\070\223\032\346\253\356\233\221
\030\371\365\074\076\065\320\323\202\060\015\006\011\052\206\110
\206\367\015\001\001\005\005\000\003\202\002\001\000\062\213\366
\235\112\311\276\024\345\214\254\070\312\072\011\324\033\316\206
\263\335\353\324\272\050\276\022\256\105\054\004\164\254\023\121
\305\130\030\146\115\202\332\325\334\223\300\047\341\276\174\237
\122\236\022\126\366\325\234\251\364\165\234\372\067\022\217\034
\223\354\127\376\007\017\253\325\022\367\017\256\141\136\126\200
\111\365\374\060\365\233\117\037\101\057\034\204\323\211\307\342
\332\002\166\355\011\317\154\301\270\034\203\034\026\372\224\315
\175\240\310\030\322\310\235\156\365\275\151\324\155\075\065\350
\036\242\117\140\327\007\051\374\262\243\244\235\156\025\222\126
\031\114\012\260\351\174\322\031\115\102\106\354\275\375\366\127
\133\335\230\176\244\115\314\162\003\203\130\135\357\223\072\101
\172\143\252\174\072\250\365\254\244\321\335\242\055\266\052\374
\237\001\216\342\020\261\304\312\344\147\333\125\045\031\077\375
\350\066\176\263\341\341\201\257\021\026\213\120\227\140\031\202
\000\300\153\115\163\270\321\023\007\076\352\266\061\117\360\102
\232\155\342\021\164\345\224\254\215\204\225\074\041\257\305\332
\107\310\337\071\142\142\313\133\120\013\327\201\100\005\234\233
\355\272\266\213\036\004\157\226\040\071\355\244\175\051\333\110
\316\202\334\324\002\215\035\004\061\132\307\113\360\154\141\122
\327\264\121\302\201\154\315\341\373\247\241\322\222\166\317\261
\017\067\130\244\362\122\161\147\077\014\210\170\200\211\301\310
\265\037\222\143\276\247\172\212\126\054\032\250\246\234\265\135
\263\143\320\023\040\241\353\221\154\320\215\175\257\337\013\344
\027\271\206\236\070\261\224\014\130\214\340\125\252\073\143\155
\232\211\140\270\144\052\222\306\067\364\176\103\103\267\163\350
\001\347\177\227\017\327\362\173\031\375\032\327\217\311\372\205
\153\172\235\236\211\266\246\050\231\223\210\100\367\076\315\121
\243\312\352\357\171\107\041\265\376\062\342\307\303\121\157\276
\200\164\360\244\303\072\362\117\351\137\337\031\012\362\073\023
\103\254\061\244\263\347\353\374\030\326\001\251\363\052\217\066
\016\353\264\261\274\267\114\311\153\277\241\363\331\364\355\342
\360\343\355\144\236\075\057\226\122\117\200\123\213
END
CKA_NSS_MOZILLA_CA_POLICY

```
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Trust for "CA Disig Root R1"
# Issuer: CN=CA Disig Root R1,O=Disig a.s.,L=Bratislava,C=SK
# Serial Number:c3:03:9a:ee:50:90:6e:28
# Subject: CN=CA Disig Root R1,O=Disig a.s.,L=Bratislava,C=SK
# Not Valid Before: Thu Jul 19 09:06:56 2012
# Not Valid After: Sat Jul 19 09:06:56 2042
# Fingerprint (MD5): be:ec:11:93:9a:f5:69:21:bc:d7:c1:c0:67:89:cc:2a
# Fingerprint (SHA1): 8e:1c:74:f8:a6:20:b9:e5:8a:f4:61:fa:ec:2b:47:56:51:1a:52:c6
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN
 CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CA Disig Root R1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\216\034\164\370\246\040\271\345\212\364\141\372\354\053\107\126
\121\032\122\306
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\276\354\021\223\232\365\151\041\274\327\301\300\147\211\314\052
END
CKA_ISSUER MULTILINE_OCTAL
\060\122\061\013\060\011\006\003\125\004\006\023\002\123\113\061
\023\060\021\006\003\125\004\007\023\012\102\162\141\164\151\163
\154\141\166\141\061\023\060\021\006\003\125\004\012\023\012\104
\151\163\151\147\040\141\056\163\056\061\031\060\027\006\003\125
\004\003\023\020\103\101\040\104\151\163\151\147\040\122\157\157
\164\040\122\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\303\003\232\356\120\220\156\050
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED
 CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Autoridad Certificadora Raíz Nacional de Uruguay"
# Issuer: C=UY,O=AGESIC,CN=Autoridad Certificadora Raíz Nacional de Uruguay
# Serial Number:02:ee:00:9b:66:d8:6a:1d:67:fe:da:8a:25:6f:21:5a:75:1b
# Subject: C=UY,O=AGESIC,CN=Autoridad Certificadora Raíz Nacional de Uruguay
```

```
# Not Valid Before: Thu Nov 03 15:02:49 2011
# Not Valid After: Wed Oct 29 15:02:49 2031
# Fingerprint (MD5): 7b:b7:e7:2e:64:18:e4:11:0c:f7:42:78:3e:65:a2:ae
# Fingerprint (SHA1): 7a:1c:dd:e3:d2:19:7e:71:37:43:3d:3f:99:c0:b3:69:f7:06:c7:49
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridad Certificadora Raíz Nacional de Uruguay"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\132\061\072\060\070\006\003\125\004\003\014\061\101\165\164
\157\162\151\144\141\144\040\103\145\162\164\151\146\151\143\141
\144\157\162\141\040\122\141\303\255\172\040\116\141\143\151\157
\156\141\154\040\144\145\040\125\162\165\147\165\141\171\061\017
\060\015\006\003\125\004\012\023\006\101\107\105\123\111\103\061
\013\060\011\006\003\125\004\006\023\002\125\131
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\072\060\070\006\003\125\004\003\014\061\101\165\164
\157\162\151\144\141\144\040\103\145\162\164\151\146\151\143\141
\144\157\162\141\040\122\141\303\255\172\040\116\141\143\151\157
\156\141\154\040\144\145\040\125\162\165\147\165\141\171\061\017
\060\015\006\003\125\004\012\023\006\101\107\105\123\111\103\061
\013\060\011\006\003\125\004\006\023\002\125\131
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\022\002\356\000\233\146\330\152\035\147\376\332\212\045\157
\041\132\165\033
END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\235\060\202\004\205\240\003\002\001\002\002\022\002
\356\000\233\146\330\152\035\147\376\332\212\045\157\041\132\165
\033\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000
\060\132\061\072\060\070\006\003\125\004\003\014\061\101\165\164
\157\162\151\144\141\144\040\103\145\162\164\151\146\151\143\141
\144\157\162\141\040\122\141\303\255\172\040\116\141\143\151\157
\156\141\154\040\144\145\040\125\162\165\147\165\141\171\061\017
\060\015\006\003\125\004\012\023\006\101\107\105\123\111\103\061
\013\060\011\006\003\125\004\006\023\002\125\131\060\036\027\015
\061\061\061\061\060\063\061\065\060\062\064\071\132\027\015\063
\061\061\060\062\071\061\065\060\062\064\071\132\060\132\061\072
\060\070\006\003\125\004\003\014\061\101\165\164\157\162\151\144
\141\144\040\103\145\162\164\151\146\151\143\141\144\157\162\141
\040\122\141\303\255\172\040\116\141\143\151\157\156\141\154\040
\144\145\040\125\162\165\147\165\141\171\061\017\060\015\006\003
```

\125\004\012\023\006\101\107\105\123\111\103\061\013\060\011\006
\003\125\004\006\023\002\125\131\060\202\002\040\060\015\006\011
\052\206\110\206\367\015\001\001\001\005\000\003\202\002\015\000
\060\202\002\010\002\202\002\001\000\227\304\037\052\104\241\201
\113\110\221\165\335\353\332\217\312\033\213\362\264\074\054\306
\345\364\301\036\321\270\060\023\157\134\237\345\121\226\177\032
\244\026\376\322\324\035\045\366\320\346\067\140\137\000\243\031
\251\354\047\277\120\055\005\240\134\136\223\353\343\150\375\233
\075\271\024\066\055\347\045\025\020\220\032\222\311\021\261\051
\227\223\126\125\142\255\107\254\177\325\014\167\226\322\223\150
\152\061\335\124\357\223\362\012\117\240\137\002\132\357\266\104
\076\347\231\262\216\105\336\240\367\300\350\110\260\107\354\336
\102\024\333\065\173\240\151\374\036\300\001\051\026\332\063\241
\041\241\062\062\020\166\175\250\307\300\056\163\203\144\374\132
\367\233\066\214\151\355\040\125\043\171\315\363\363\154\153\140
\134\170\215\374\075\205\054\274\251\367\160\350\245\312\115\330
\174\230\357\206\166\030\204\325\100\051\020\047\062\347\357\003
\104\013\117\311\052\361\266\264\053\240\325\003\224\204\041\323
\164\363\051\155\170\360\005\152\256\001\017\141\037\306\245\360
\307\202\025\331\073\373\335\213\164\151\356\344\307\307\364\021
\334\024\121\301\204\032\045\126\023\153\133\316\137\054\375\213
\033\055\017\310\300\125\252\030\117\230\234\317\242\167\010\264
\065\225\330\271\213\234\111\016\264\020\013\374\374\107\115\324
\232\127\371\237\172\275\351\127\273\264\017\137\025\220\330\150
\154\325\205\045\203\055\206\014\107\142\227\263\171\115\271\145
\010\167\122\157\112\343\156\200\300\254\243\325\274\352\111\342
\145\342\114\131\152\202\336\053\365\252\076\376\145\350\121\160
\115\067\204\006\004\077\222\203\324\126\050\343\045\325\124\312
\205\356\126\300\056\316\371\160\020\022\137\135\236\306\274\113
\020\035\126\155\312\162\301\123\011\052\023\075\330\265\371\034
\073\105\306\207\024\320\070\176\236\041\137\374\166\035\377\013
\051\102\333\241\304\171\071\341\115\325\206\120\343\362\340\263
\327\131\233\336\077\036\032\003\363\324\151\206\113\107\034\062
\177\074\007\011\023\020\247\233\007\060\167\063\274\151\021\321
\064\075\174\020\052\270\036\216\275\107\336\371\262\171\125\146
\041\002\007\373\071\054\012\027\241\002\001\003\243\202\001\135
\060\202\001\131\060\016\006\003\125\035\017\001\001\377\004\004
\003\002\001\006\060\017\006\003\125\035\023\001\001\377\004\005
\060\003\001\001\377\060\142\006\003\125\035\037\004\133\060\131
\060\054\240\052\240\050\206\046\150\164\164\160\072\057\057\167
\167\167\056\141\147\145\163\151\143\056\147\165\142\056\165\171
\057\141\143\162\156\057\141\143\162\156\056\143\162\154\060\051
\240\047\240\045\206\043\150\164\164\160\072\057\057\167\167\167
\056\165\143\145\056\147\165\142\056\165\171\057\141\143\162\156
\057\141\143\162\156\056\143\162\154\060\201\262\006\003\125\035
\040\004\201\252\060\201\247\060\134\006\013\140\206\132\204\342
\256\035\204\210\005\000\060\115\060\113\006\010\053\006\001\005
\005\007\002\001\026\077\150\164\164\160\072\057\057\167\167\167

\056\165\143\145\056\147\165\142\056\165\171\057\151\156\146\157
\162\155\141\143\151\157\156\055\164\145\143\156\151\143\141\057
\160\157\154\151\164\151\143\141\163\057\143\160\137\141\143\162
\156\056\160\144\146\060\107\006\013\140\206\132\204\342\256\035
\204\210\005\001\060\070\060\066\006\010\053\006\001\005\005\007
\002\001\026\052\150\164\164\160\072\057\057\167\167\167\056\141
\147\145\163\151\143\056\147\165\142\056\165\171\057\141\143\162
\156\057\143\160\163\137\141\143\162\156\056\160\144\146\060\035
\006\003\125\035\016\004\026\004\024\222\236\221\270\125\050\075
\167\102\054\063\245\230\137\320\311\254\215\265\243\060\015\006
\011\052\206\110\206\367\015\001\001\013\005\000\003\202\002\001
\000\135\347\253\131\352\111\334\277\106\103\375\224\273\230\160
\224\024\372\316\003\135\361\175\061\023\222\116\205\044\060\024
\153\154\323\347\316\346\171\325\333\116\125\116\027\053\327\223
\105\337\023\014\047\147\035\307\102\220\124\060\306\361\250\151
\050\264\116\246\155\245\065\246\120\226\150\111\243\356\057\013
\253\374\003\002\120\150\361\225\051\076\161\054\334\332\345\055
\331\166\056\356\126\063\176\027\241\047\002\341\241\047\050\041
\212\277\001\347\142\307\273\262\045\004\332\033\246\043\214\174
\223\272\311\213\353\012\371\067\267\224\071\375\115\217\176\242
\334\201\157\033\255\024\017\133\040\003\170\101\163\147\236\322
\227\027\220\052\212\124\113\247\171\177\044\022\221\237\073\054
\307\067\244\014\134\162\152\023\236\062\011\047\353\103\062\165
\137\327\107\303\052\105\123\025\126\166\117\273\011\350\204\140
\021\357\163\325\347\120\156\151\050\375\353\306\313\312\116\023
\143\015\016\067\054\061\037\333\247\130\240\262\375\015\027\207
\263\222\256\033\050\200\037\266\222\176\206\021\341\366\114\230
\177\146\213\037\023\111\003\102\374\373\230\234\356\206\226\251
\056\005\176\160\034\301\167\310\351\135\202\270\016\316\133\144
\005\143\356\077\006\055\066\014\351\037\162\133\036\254\335\046
\365\034\070\156\375\214\075\115\206\353\047\313\312\003\215\100
\363\052\321\212\330\064\016\302\255\265\210\355\207\232\212\205
\242\207\357\351\271\070\347\150\226\243\001\317\202\075\034\113
\050\235\047\365\371\231\226\173\110\375\254\320\360\062\367\070
\004\335\115\231\256\016\222\202\303\372\074\033\023\307\150\267
\135\340\223\106\270\270\270\244\014\304\033\306\272\106\226\335
\236\125\017\107\235\366\201\245\254\145\131\330\335\256\006\154
\340\103\202\306\147\330\160\002\065\365\066\004\343\112\071\251
\165\002\036\346\077\106\317\234\054\036\204\210\027\252\046\251
\246\103\200\340\300\133\243\144\203\233\232\355\153\001\145\266
\301\075\030\354\223\031\146\224\250\323\021\120\231\172\210\175
\257\076\177\224\220\073\012\303\152\267\215\137\322\247\121\321
\062\037\271\362\062\175\167\223\155\103\354\101\151\253\317\311
\141
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Autoridad Certificadora Raíz Nacional de Uruguay"
Issuer: C=UY,O=AGESIC,CN=Autoridad
Certificadora Raíz Nacional de Uruguay
Serial Number:02:ee:00:9b:66:d8:6a:1d:67:fe:da:8a:25:6f:21:5a:75:1b
Subject: C=UY,O=AGESIC,CN=Autoridad Certificadora Raíz Nacional de Uruguay
Not Valid Before: Thu Nov 03 15:02:49 2011
Not Valid After: Wed Oct 29 15:02:49 2031
Fingerprint (MD5): 7b:b7:e7:2e:64:18:e4:11:0c:f7:42:78:3e:65:a2:ae
Fingerprint (SHA1): 7a:1c:dd:e3:d2:19:7e:71:37:43:3d:3f:99:c0:b3:69:f7:06:c7:49
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridad Certificadora Raíz Nacional de Uruguay"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\172\034\335\343\322\031\176\161\067\103\075\077\231\300\263\151
\367\006\307\111
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\173\267\347\056\144\030\344\021\014\367\102\170\076\145\242\256
END
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\072\060\070\006\003\125\004\003\014\061\101\165\164
\157\162\151\144\141\144\040\103\145\162\164\151\146\151\143\141
\144\157\162\141\040\122\141\303\255\172\040\116\141\143\151\157
\156\141\154\040\144\145\040\125\162\165\147\165\141\171\061\017
\060\015\006\003\125\004\012\023\006\101\107\105\123\111\103\061
\013\060\011\006\003\125\004\006\023\002\125\131
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\022\002\356\000\233\146\330\152\035\147\376\332\212\045\157
\041\132\165\033
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "E-Tugra Certification Authority"
Issuer: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tura EBG Biliim
Teknolojileri ve Hizmetleri A..,L=Ankara,C=TR
Serial Number:6a:68:3e:9c:51:9b:cb:53
Subject: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tura EBG Biliim

```
Teknolojileri ve
 Hizmetleri A..,L=Ankara,C=TR
# Not Valid Before: Tue Mar 05 12:09:48 2013
# Not Valid After: Fri Mar 03 12:09:48 2023
# Fingerprint (MD5): b8:a1:03:63:b0:bd:21:71:70:8a:6f:13:3a:bb:79:49
# Fingerprint (SHA1): 51:c6:e7:08:49:06:6e:f3:92:d4:5c:a0:0d:6d:a3:62:8f:c3:52:39
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "E-Tugra Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\262\061\013\060\011\006\003\125\004\006\023\002\124\122
\061\017\060\015\006\003\125\004\007\014\006\101\156\153\141\162
\141\061\100\060\076\006\003\125\004\012\014\067\105\055\124\165
\304\237\162\141\040\105\102\107\040\102\151\154\151\305\237\151
\155\040\124\145\153\156\157\154\157\152\151\154\145\162\151\040
\166\145\040\110\151\172\155\145\164\154\145\162\151\040\101\056
\305\236\056\061\046\060\044\006\003\125\004\013\014\035\105\055
\124\165\147\162\141\040\123\145\162\164\151\146\151\153\141\163
\171\157\156\040\115\145\162\153\145\172\151\061\050\060\046\006
\003\125\004\003\014\037\105\055\124\165\147\162\141\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\262\061\013\060\011\006\003\125\004\006\023\002\124\122
\061\017\060\015\006\003\125\004\007\014\006\101\156\153\141\162
\141\061\100\060\076\006\003\125\004\012\014\067\105\055\124\165
\304\237\162\141\040\105\102\107\040\102\151\154\151\305\237\151
\155\040\124\145\153\156\157\154\157\152\151\154\145\162\151\040
\166\145\040\110\151\172\155\145\164\154\145\162\151\040\101\056
\305\236\056\061\046\060\044\006\003\125\004\013\014\035\105\055
\124\165\147\162\141\040\123\145\162\164\151\146\151\153\141\163
\171\157\156\040\115\145\162\153\145\172\151\061\050\060\046\006
\003\125\004\003\014\037\105\055\124\165\147\162\141\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\010\152\150\076\234\121\233\313\123
END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\113\060\202\004\063\240\003\002\001\002\002\010\152
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\150\076\234\121\233\313\123\060\015\006\011\052\206\110\206\367
\015\001\001\013\005\000\060\201\262\061\013\060\011\006\003\125
\004\006\023\002\124\122\061\017\060\015\006\003\125\004\007\014
\006\101\156\153\141\162\141\061\100\060\076\006\003\125\004\012
\014\067\105\055\124\165\304\237\162\141\040\105\102\107\040\102
\151\154\151\305\237\151\155\040\124\145\153\156\157\154\157\152
\151\154\145\162\151\040\166\145\040\110\151\172\155\145\164\154
\145\162\151\040\101\056\305\236\056\061\046\060\044\006\003\125
\004\013\014\035\105\055\124\165\147\162\141\040\123\145\162\164
\151\146\151\153\141\163\171\157\156\040\115\145\162\153\145\172
\151\061\050\060\046\006\003\125\004\003\014\037\105\055\124\165
\147\162\141\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\060\036\027\015\061
\063\060\063\060\065\061\062\060\071\064\070\132\027\015\062\063
\060\063\060\063\061\062\060\071\064\070\132\060\201\262\061\013
\060\011\006\003\125\004\006\023\002\124\122\061\017\060\015\006
\003\125\004\007\014\006\101\156\153\141\162\141\061\100\060\076
\006\003\125\004\012\014\067\105\055\124\165\304\237\162\141\040
\105\102\107\040\102\151\154\151\305\237\151\155\040\124\145\153
\156\157\154\157\152\151\154\145\162\151\040\166\145\040\110\151
\172\155\145\164\154\145\162\151\040\101\056\305\236\056\061\046
\060\044\006\003\125\004\013\014\035\105\055\124\165\147\162\141
\040\123\145\162\164\151\146\151\153\141\163\171\157\156\040\115
\145\162\153\145\172\151\061\050\060\046\006\003\125\004\003\014
\037\105\055\124\165\147\162\141\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001
\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001
\000\342\365\077\223\005\121\036\205\142\124\136\172\013\365\030
\007\203\256\176\257\174\367\324\212\153\245\143\103\071\271\113
\367\303\306\144\211\075\224\056\124\200\122\071\071\007\113\113
\335\205\007\166\207\314\277\057\225\114\314\175\247\075\274\107
\017\230\160\370\214\205\036\164\216\222\155\033\100\321\231\015
\273\165\156\310\251\153\232\300\204\061\257\312\103\313\353\053
\064\350\217\227\153\001\233\325\016\112\010\252\133\222\164\205
\103\323\200\256\241\210\133\256\263\352\136\313\026\232\167\104
\310\241\366\124\150\316\336\217\227\053\272\133\100\002\014\144
\027\300\265\223\315\341\361\023\146\316\014\171\357\321\221\050
\253\137\240\022\122\060\163\031\216\217\341\214\007\242\303\273
\112\360\352\037\025\250\356\045\314\244\106\370\033\042\357\263
\016\103\272\054\044\270\305\054\134\324\034\370\135\144\275\303
\223\136\050\247\077\047\361\216\036\323\052\120\005\243\125\331
\313\347\071\123\300\230\236\214\124\142\213\046\260\367\175\215
\174\344\306\236\146\102\125\202\107\347\262\130\215\146\367\007
\174\056\066\346\120\034\077\333\103\044\305\277\206\107\171\263
\171\034\367\132\364\023\354\154\370\077\342\131\037\225\356\102
\076\271\255\250\062\205\111\227\106\376\113\061\217\132\313\255
\164\107\037\351\221\267\337\050\004\042\240\324\017\135\342\171

\117\352\154\205\206\275\250\246\316\344\372\303\341\263\256\336
\074\121\356\313\023\174\001\177\204\016\135\121\224\236\023\014
\266\056\245\114\371\071\160\066\157\226\312\056\014\104\125\305
\312\372\135\002\243\337\326\144\214\132\263\001\012\251\265\012
\107\027\377\357\221\100\052\216\241\106\072\061\230\345\021\374
\314\273\111\126\212\374\271\320\141\232\157\145\154\346\303\313
\076\165\111\376\217\247\342\211\305\147\327\235\106\023\116\061
\166\073\044\263\236\021\145\206\253\177\357\035\324\370\274\347
\254\132\134\267\132\107\134\125\316\125\264\042\161\133\133\013
\360\317\334\240\141\144\352\251\327\150\012\143\247\340\015\077
\240\257\323\252\322\176\357\121\240\346\121\053\125\222\025\027
\123\313\267\146\016\146\114\370\371\165\114\220\347\022\160\307
\105\002\003\001\000\001\243\143\060\141\060\035\006\003\125\035
\016\004\026\004\024\056\343\333\262\111\320\234\124\171\134\372
\047\052\376\314\116\322\350\116\124\060\017\006\003\125\035\023
\001\001\377\004\005\060\003\001\001\377\060\037\006\003\125\035
\043\004\030\060\026\200\024\056\343\333\262\111\320\234\124\171
\134\372\047\052\376\314\116\322\350\116\124\060\016\006\003\125
\035\017\001\001\377\004\004\003\002\001\006\060\015\006\011\052
\206\110\206\367\015\001\001\013\005\000\003\202\002\001\000\005
\067\072\364\115\267\105\342\105\165\044\217\266\167\122\350\034
\330\020\223\145\363\362\131\006\244\076\036\051\354\135\321\320
\253\174\340\012\220\110\170\355\116\230\003\231\376\050\140\221
\035\060\035\270\143\174\250\346\065\265\372\323\141\166\346\326
\007\113\312\151\232\262\204\172\167\223\105\027\025\237\044\320
\230\023\022\377\273\240\056\375\116\114\207\370\316\134\252\230
\033\005\340\000\106\112\202\200\245\063\213\050\334\355\070\323
\337\345\076\351\376\373\131\335\141\204\117\322\124\226\023\141
\023\076\217\200\151\276\223\107\265\065\103\322\132\273\075\134
\357\263\102\107\315\073\125\023\006\260\011\333\375\143\366\072
\210\012\231\157\176\341\316\033\123\152\104\146\043\121\010\173
\274\133\122\242\375\006\067\070\100\141\217\112\226\270\220\067
\370\146\307\170\220\000\025\056\213\255\121\065\123\007\250\153
\150\256\371\116\074\007\046\315\010\005\160\314\071\077\166\275
\245\323\147\046\001\206\246\123\322\140\073\174\103\177\125\212
\274\225\032\301\050\071\114\037\103\322\221\364\162\131\212\271
\126\374\077\264\235\332\160\234\166\132\214\103\120\356\216\060
\162\115\337\377\111\367\306\251\147\331\155\254\002\021\342\072
\026\045\247\130\010\313\157\123\101\234\110\070\107\150\063\321
\327\307\217\324\164\041\324\303\005\220\172\377\316\226\210\261
\025\051\135\043\253\320\140\241\022\117\336\364\027\315\062\345
\311\277\310\103\255\375\056\216\361\257\342\364\230\372\022\037
\040\330\300\247\014\205\305\220\364\073\055\226\046\261\054\276
\114\253\353\261\322\212\311\333\170\023\017\036\011\235\155\217
\000\237\002\332\301\372\037\172\172\011\304\112\346\210\052\227
\237\211\213\375\067\137\137\072\316\070\131\206\113\257\161\013
\264\330\362\160\117\237\062\023\343\260\247\127\345\332\332\103
\313\204\064\362\050\304\352\155\364\052\357\301\153\166\332\373

\176\273\205\074\322\123\302\115\276\161\341\105\321\375\043\147
\015\023\165\373\317\145\147\042\235\256\260\011\321\011\377\035
\064\277\376\043\227\067\322\071\372\075\015\006\013\264\333\073
\243\253\157\134\035\266\176\350\263\202\064\355\006\134\044
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "E-Tugra Certification Authority"
Issuer: CN=E-Tugra Certification Authority,OU=E-Tugra
Sertifikasyon Merkezi,O=E-Tura EBG Biliim Teknolojileri ve Hizmetleri A..,L=Ankara,C=TR
Serial Number:6a:68:3e:9c:51:9b:cb:53
Subject: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tura EBG Biliim
Teknolojileri ve Hizmetleri A..,L=Ankara,C=TR
Not Valid Before: Tue Mar 05 12:09:48 2013
Not Valid After: Fri Mar 03 12:09:48 2023
Fingerprint (MD5): b8:a1:03:63:b0:bd:21:71:70:8a:6f:13:3a:bb:79:49
Fingerprint (SHA1): 51:c6:e7:08:49:06:6e:f3:92:d4:5c:a0:0d:6d:a3:62:8f:c3:52:39
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "E-Tugra Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\121\306\347\010\111\006\156\363\222\324\134\240\015\155\243\142
\217\303\122\071
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\270\241\003\143\260\275\041\161\160\212\157\023\072\273\171\111
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\262\061\013\060\011\006\003\125\004\006\023\002\124\122
\061\017\060\015\006\003\125\004\007\014\006\101\156\153\141\162
\141\061\100\060\076\006\003\125\004\012\014\067\105\055\124\165
\304\237\162\141\040\105\102\107\040\102\151\154\151\305\237\151
\155\040\124\145\153\156\157\154\157\152\151\154\145\162\151\040
\166\145\040\110\151\172\155\145\164\154\145\162\151\040\101\056
\305\236\056\061\046\060\044\006\003\125\004\013\014\035\105\055
\124\165\147\162\141\040\123\145\162\164\151\146\151\153\141\163
\171\157\156\040\115\145\162\153\145\172\151\061\050\060\046\006
\003\125\004\003\014\037\105\055\124\165\147\162\141\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END
CKA_SERIAL_NUMBER

```
 MULTILINE_OCTAL
\002\010\152\150\076\234\121\233\313\123
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
 Microsoft Code Signing Only Certificate
# Certificate "ApplicationCA2 Root"
# Issuer: CN=ApplicationCA2 Root,OU=GPKI,O=Japanese Government,C=JP
# Serial Number:31:32:35:33:37:32:38:32:38:32:38
# Subject: CN=ApplicationCA2 Root,OU=GPKI,O=Japanese Government,C=JP
# Not Valid Before: Tue Mar 12 15:00:00 2013
# Not Valid After: Sat Mar 12 15:00:00 2033
# Fingerprint (MD5): 7b:4c:15:74:3b:54:96:07:aa:95:3b:60:10:23:cf:f3
# Fingerprint (SHA1): f0:0f:c3:7d:6a:1c:92:61:fb:6b:c1:c2:18:49:8c:5a:a4:dc:51:fb
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ApplicationCA2 Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\130\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\034\060\032\006\003\125\004\012\023\023\112\141\160\141\156\145
\163\145\040\107\157\166\145\162\156\155\145\156\164\061\015\060
\013\006\003\125\004\013\023\004\107\120\113\111\061\034\060\032
\006\003\125\004\003\023\023\101\160\160\154\151\143\141\164\151
\157\156\103\101\062\040\122\157\157\164
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\130\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\034\060\032\006\003\125\004\012\023\023\112\141\160\141\156\145
\163\145\040\107\157\166\145\162\156\155\145\156\164\061\015\060
\013\006\003\125\004\013\023\004\107\120\113\111\061\034\060\032
\006\003\125\004\003\023\023\101\160\160\154\151\143\141\164\151
\157\156\103\101\062\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\061\062\065\063\067\062\070\062\070\062\070
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\367\060\202\002\337\240\003\002\001\002\002\013\061
\062\065\063\067\062\070\062\070\062\070\060\015\006\011\052\206
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\110\206\367\015\001\001\013\005\000\060\130\061\013\060\011\006
\003\125\004\006\023\002\112\120\061\034\060\032\006\003\125\004
\012\023\023\112\141\160\141\156\145\163\145\040\107\157\166\145
\162\156\155\145\156\164\061\015\060\013\006\003\125\004\013\023
\004\107\120\113\111\061\034\060\032\006\003\125\004\003\023\023
\101\160\160\154\151\143\141\164\151\157\156\103\101\062\040\122
\157\157\164\060\036\027\015\061\063\060\063\061\062\061\065\060
\060\060\060\132\027\015\063\063\060\063\061\062\061\065\060\060
\060\060\132\060\130\061\013\060\011\006\003\125\004\006\023\002
\112\120\061\034\060\032\006\003\125\004\012\023\023\112\141\160
\141\156\145\163\145\040\107\157\166\145\162\156\155\145\156\164
\061\015\060\013\006\003\125\004\013\023\004\107\120\113\111\061
\034\060\032\006\003\125\004\003\023\023\101\160\160\154\151\143
\141\164\151\157\156\103\101\062\040\122\157\157\164\060\202\001
\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000
\003\202\001\017\000\060\202\001\012\002\202\001\001\000\246\252
\255\045\145\326\000\021\326\350\172\166\252\364\346\264\113\363
\314\303\122\264\215\254\246\117\265\222\161\157\106\265\325\255
\213\022\042\027\045\316\105\350\024\172\205\232\344\043\020\250
\372\261\147\120\345\155\107\340\152\211\023\343\256\256\065\361
\364\102\305\005\367\115\227\176\074\050\374\260\046\221\036\214
\036\070\032\226\334\130\104\227\142\343\062\310\321\025\101\115
\165\230\170\276\253\150\251\136\355\107\276\244\272\216\241\002
\227\336\223\164\231\155\147\264\005\045\356\224\310\355\252\244
\272\062\154\102\021\353\276\313\027\006\220\341\223\205\310\144
\050\316\037\107\307\300\135\140\356\166\066\334\063\073\121\353
\173\317\162\330\017\170\250\031\202\010\220\076\032\230\215\216
\264\317\025\066\246\156\335\267\342\115\100\040\123\331\166\052
\320\170\254\211\360\117\213\062\155\104\352\056\272\260\251\353
\211\335\267\157\171\017\253\201\156\270\346\213\051\013\131\257
\266\111\015\121\054\251\375\235\050\143\146\270\160\225\163\232
\330\372\073\063\274\102\102\033\062\254\261\062\373\075\002\003
\001\000\001\243\201\301\060\201\276\060\035\006\003\125\035\016
\004\026\004\024\126\247\254\252\002\035\262\254\075\220\016\240
\157\056\101\306\166\347\173\332\060\016\006\003\125\035\017\001
\001\377\004\004\003\002\001\006\060\174\006\003\125\035\021\004
\165\060\163\244\161\060\157\061\013\060\011\006\003\125\004\006
\023\002\112\120\061\030\060\026\006\003\125\004\012\014\017\346
\227\245\346\234\254\345\233\275\346\224\277\345\272\234\061\033
\060\031\006\003\125\004\013\014\022\346\224\277\345\272\234\350
\252\215\350\250\274\345\237\272\347\233\244\061\051\060\047\006
\003\125\004\003\014\040\343\202\242\343\203\227\343\203\252\343
\202\261\343\203\274\343\202\267\343\203\247\343\203\263\103\101
\062\040\122\157\157\164\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\001\001\377\060\015\006\011\052\206\110\206\367
\015\001\001\013\005\000\003\202\001\001\000\177\232\011\165\254
\007\321\162\164\056\167\127\060\302\004\234\324\200\246\203\347
\245\240\033\237\376\253\363\200\275\325\112\243\241\217\266\114

\140\021\347\312\341\140\201\327\110\301\040\131\245\141\062\213
\235\236\227\323\146\203\332\145\056\130\076\333\345\057\245\315
\214\163\246\121\276\130\050\240\171\134\151\057\103\337\143\262
\211\107\312\273\336\271\064\021\143\240\016\045\027\345\207\364
\035\260\260\245\317\101\250\164\306\350\123\325\102\364\202\055
\123\011\021\150\046\161\224\165\023\115\252\166\210\074\164\261
\326\343\114\117\142\303\111\114\116\155\361\160\176\303\177\246
\005\314\170\233\351\201\333\250\310\307\134\236\374\222\222\055
\246\227\362\070\265\156\163\225\014\300\077\316\246\224\060\265
\372\005\267\336\236\040\252\374\023\144\311\212\272\144\357\342
\143\344\330\230\256\153\265\076\246\125\270\063\076\054\162\373
\054\021\000\373\133\026\057\204\322\023\236\372\005\305\301\313
\162\116\042\335\204\312\113\274\322\055\206\032\004\166\131\037
\111\102\142\073\023\037\026\350\272\327\375
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "ApplicationCA2
Root"
Issuer: CN=ApplicationCA2 Root,OU=GPKI,O=Japanese Government,C=JP
Serial Number:31:32:35:33:37:32:38:32:38:32:38
Subject: CN=ApplicationCA2 Root,OU=GPKI,O=Japanese Government,C=JP
Not Valid Before: Tue Mar 12 15:00:00 2013
Not Valid After: Sat Mar 12 15:00:00 2033
Fingerprint (MD5): 7b:4c:15:74:3b:54:96:07:aa:95:3b:60:10:23:cf:f3
Fingerprint (SHA1): f0:0f:c3:7d:6a:1c:92:61:fb:6b:c1:c2:18:49:8c:5a:a4:dc:51:fb
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ApplicationCA2 Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\360\017\303\175\152\034\222\141\373\153\301\302\030\111\214\132
\244\334\121\373
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\173\114\025\164\073\124\226\007\252\225\073\140\020\043\317\363
END
CKA_ISSUER MULTILINE_OCTAL
\060\130\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\034\060\032\006\003\125\004\012\023\023\112\141\160\141\156\145
\163\145\040\107\157\166\145\162\156\155\145\156\164\061\015\060
\013\006\003\125\004\013\023\004\107\120\113\111\061\034\060\032
\006\003\125\004\003\023\023\101\160\160\154\151\143\141\164\151

\157\156\103\101\062\040\122\157\157\164
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\013\061\062\065\063\067\062\070\062\070\062\070
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "ADOCA02"
Issuer: CN=ADOCA02,OU=CAs,OU=PKI,OU=DoD,O=GOV,C=AU
Serial Number: 1813 (0x715)
Subject: CN=ADOCA02,OU=CAs,OU=PKI,OU=DoD,O=GOV,C=AU
Not Valid Before: Thu Sep 01 04:26:07 2011
Not Valid After: Sun Jan 27 02:31:24 2019
Fingerprint (MD5): c4:4f:6a:cd:50:fd:44:c4:36:e0:b3:38:d3:7c:c0:97
Fingerprint (SHA1): 84:42:9d:9f:e2:e7:3a:0d:c8:aa:0a:e0:a9:02:f2:74:99:33:fe:02
CKA_CLASS CK_OBJECT_CLASS
 CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ADOCA02"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\127\061\013\060\011\006\003\125\004\006\023\002\101\125\061
\014\060\012\006\003\125\004\012\023\003\107\117\126\061\014\060
\012\006\003\125\004\013\023\003\104\157\104\061\014\060\012\006
\003\125\004\013\023\003\120\113\111\061\014\060\012\006\003\125
\004\013\023\003\103\101\163\061\020\060\016\006\003\125\004\003
\023\007\101\104\117\103\101\060\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\127\061\013\060\011\006\003\125\004\006\023\002\101\125\061
\014\060\012\006\003\125\004\012\023\003\107\117\126\061\014\060
\012\006\003\125\004\013\023\003\104\157\104\061\014\060\012\006
\003\125\004\013\023\003\120\113\111\061\014\060\012\006\003\125
\004\013\023\003\103\101\163\061\020\060\016\006\003\125\004\003
\023\007\101\104\117\103\101\060\062
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\002\007\025
END

CKA_VALUE MULTILINE_OCTAL

\060\202\003\331\060\202\002\301\240\003\002\001\002\002\002\007
\025\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000
\060\127\061\013\060\011\006\003\125\004\006\023\002\101\125\061
\014\060\012\006\003\125\004\012\023\003\107\117\126\061\014\060
\012\006\003\125\004\013\023\003\104\157\104\061\014\060\012\006
\003\125\004\013\023\003\120\113\111\061\014\060\012\006\003\125
\004\013\023\003\103\101\163\061\020\060\016\006\003\125\004\003
\023\007\101\104\117\103\101\060\062\060\036\027\015\061\061\060
\071\060\061\060\064\062\066\060\067\132\027\015\061\071\060\061
\062\067\060\062\063\061\062\064\132\060\127\061\013\060\011\006
\003\125\004\006\023\002\101\125\061\014\060\012\006\003\125\004
\012\023\003\107\117\126\061\014\060\012\006\003\125\004\013\023
\003\104\157\104\061\014\060\012\006\003\125\004\013\023\003\120
\113\111\061\014\060\012\006\003\125\004\013\023\003\103\101\163
\061\020\060\016\006\003\125\004\003\023\007\101\104\117\103\101
\060\062\060\202\001\042\060\015\006\011\052\206\110\206\367\015
\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202
\001\001\000\344\120\205\110\167\217\276\377\111\321\273\165\256
\207\040\012\226\101\045\053\274\106\007\335\313\004\206\225\054
\111\056\275\106\014\016\367\130\240\140\026\205\332\135\073\343
\165\136\102\175\144\154\217\301\135\051\144\101\262\205\267\033
\106\275\205\332\327\072\035\262\264\361\112\075\376\036\332\310
\356\206\235\243\152\121\013\344\105\230\257\330\033\110\274\074
\024\042\355\053\237\073\177\157\063\074\326\175\254\340\171\117
\277\145\223\313\027\052\157\274\172\017\351\133\137\341\014\052
\373\100\122\066\112\135\145\070\313\131\301\110\263\244\221\205
\026\135\170\175\302\317\055\063\356\131\112\310\346\141\263\206
\037\204\310\270\032\154\236\321\140\264\202\065\353\275\043\250
\057\223\124\120\316\044\136\061\256\323\152\064\054\141\207\067
\106\036\103\211\306\200\313\042\003\323\311\205\056\037\233\261
\254\071\113\115\140\362\212\141\033\377\203\261\054\163\217\210
\102\300\055\261\312\236\300\225\147\164\173\226\344\152\172\216
\101\105\240\064\363\316\270\347\342\217\363\120\125\144\157\271
\040\053\223\002\003\001\000\001\243\201\256\060\201\253\060\014
\006\003\125\035\023\004\005\060\003\001\001\377\060\113\006\003
\125\035\040\004\104\060\102\060\070\006\011\052\044\001\202\116
\001\001\001\001\060\053\060\051\006\010\053\006\001\005\005\007
\002\001\026\035\150\164\164\160\072\057\057\167\167\167\056\144
\145\146\145\156\143\145\056\147\157\166\056\141\165\057\160\153
\151\060\006\006\004\125\035\040\000\060\016\006\003\125\035\017
\001\001\377\004\004\003\002\001\306\060\037\006\003\125\035\043
\004\030\060\026\200\024\351\347\235\353\065\275\270\262\053\111
\130\364\274\222\175\213\161\212\021\132\060\035\006\003\125\035
\016\004\026\004\024\351\347\235\353\065\275\270\262\053\111\130
\364\274\222\175\213\161\212\021\132\060\015\006\011\052\206\110
\206\367\015\001\001\005\005\000\003\202\001\001\000\126\320\250
\310\154\311\264\254\361\073\201\165\053\021\304\366\126\264\127

\256\302\222\031\134\226\163\012\355\056\103\234\144\052\131\170
\023\265\120\214\116\152\220\124\363\031\076\026\030\317\103\023
\311\062\163\370\125\340\312\320\222\031\076\145\243\336\200\022
\034\121\245\030\054\300\151\335\267\206\062\257\360\255\317\340
\303\043\304\345\374\266\077\013\005\327\226\072\144\136\167\214
\204\316\361\334\315\004\012\334\227\361\041\034\307\175\060\045
\135\327\040\065\225\303\207\035\266\077\333\123\342\052\244\370
\031\027\072\014\025\356\263\005\070\061\356\105\161\335\227\373
\170\161\206\002\364\237\064\031\163\111\020\053\240\177\361\311
\372\240\362\130\043\061\026\370\020\120\202\273\135\322\352\357
\151\335\147\166\125\070\307\250\016\003\200\070\117\000\040\153
\337\053\145\223\333\010\257\140\154\064\040\250\255\110\077\020
\176\246\303\224\001\225\341\201\054\240\355\214\256\124\116\072
\113\303\322\302\317\176\002\174\357\052\054\273\354\332\336\305
\001\257\224\111\355\017\302\277\016\220\151\055\153
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "ADOCA02"
Issuer: CN=ADOCA02,OU=CAs,OU=PKI,OU=DoD,O=GOV,C=AU
Serial Number: 1813 (0x715)
Subject: CN=ADOCA02,OU=CAs,OU=PKI,OU=DoD,O=GOV,C=AU
Not Valid Before: Thu Sep 01 04:26:07 2011
Not Valid After: Sun Jan 27 02:31:24 2019
Fingerprint (MD5): c4:4f:6a:cd:50:fd:44:c4:36:e0:b3:38:d3:7c:c0:97
Fingerprint (SHA1): 84:42:9d:9f:e2:e7:3a:0d:c8:aa:0a:e0:a9:02:f2:74:99:33:fe:02
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ADOCA02"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\204\102\235\237\342\347\072\015\310\252\012\340\251\002\362\164
\231\063\376\002
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\304\117\152\315\120\375\104\304\066\340\263\070\323\174\300\227
END
CKA_ISSUER
 MULTILINE_OCTAL
\060\127\061\013\060\011\006\003\125\004\006\023\002\101\125\061
\014\060\012\006\003\125\004\012\023\003\107\117\126\061\014\060
\012\006\003\125\004\013\023\003\104\157\104\061\014\060\012\006
\003\125\004\013\023\003\120\113\111\061\014\060\012\006\003\125

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\004\013\023\003\103\101\163\061\020\060\016\006\003\125\004\003
\023\007\101\104\117\103\101\060\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\007\025
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "StartCom Certification Authority G2"
# Issuer: CN=StartCom Certification Authority G2,O=StartCom Ltd.,C=IL
# Serial Number: 59 (0x3b)
# Subject: CN=StartCom Certification Authority G2,O=StartCom Ltd.,C=IL
# Not Valid
 Before: Fri Jan 01 01:00:01 2010
# Not Valid After: Sat Dec 31 23:59:01 2039
# Fingerprint (MD5): 78:4b:fb:9e:64:82:0a:d3:b8:4c:62:f3:64:f2:90:64
# Fingerprint (SHA1): 31:f1:fd:68:22:63:20:ee:c6:3b:3f:9d:ea:4a:3e:53:7c:7c:39:17
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "StartCom Certification Authority G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\123\061\013\060\011\006\003\125\004\006\023\002\111\114\061
\026\060\024\006\003\125\004\012\023\015\123\164\141\162\164\103
\157\155\040\114\164\144\056\061\054\060\052\006\003\125\004\003
\023\043\123\164\141\162\164\103\157\155\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\107\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\123\061\013\060\011\006\003\125\004\006\023\002\111\114\061
\026\060\024\006\003\125\004\012\023\015\123\164\141\162\164\103
\157\155\040\114\164\144\056\061\054\060\052\006\003\125\004\003
\023\043\123\164\141\162\164\103\157\155\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\107\062
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\001\073
END
```

CKA_VALUE MULTILINE_OCTAL

\060\202\005\143\060\202\003\113\240\003\002\001\002\002\001\073
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\123\061\013\060\011\006\003\125\004\006\023\002\111\114\061\026
\060\024\006\003\125\004\012\023\015\123\164\141\162\164\103\157
\155\040\114\164\144\056\061\054\060\052\006\003\125\004\003\023
\043\123\164\141\162\164\103\157\155\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171\040\107\062\060\036\027\015\061\060\060\061\060\061\060\061
\060\060\060\061\132\027\015\063\071\061\062\063\061\062\063\065
\071\060\061\132\060\123\061\013\060\011\006\003\125\004\006\023
\002\111\114\061\026\060\024\006\003\125\004\012\023\015\123\164
\141\162\164\103\157\155\040\114\164\144\056\061\054\060\052\006
\003\125\004\003\023\043\123\164\141\162\164\103\157\155\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164
\150\157\162\151\164\171\040\107\062\060\202\002\042\060\015\006
\011\052\206\110\206\367\015\001\001\001\005\000\003\202\002\017
\000\060\202\002\012\002\202\002\001\000\266\211\066\133\007\267
\040\066\275\202\273\341\026\040\003\225\172\257\016\243\125\311
\045\231\112\305\320\126\101\207\220\115\041\140\244\024\207\073
\315\375\262\076\264\147\003\152\355\341\017\113\300\221\205\160
\105\340\102\236\336\051\043\324\001\015\240\020\171\270\333\003
\275\363\251\057\321\306\340\017\313\236\212\024\012\270\275\366
\126\142\361\305\162\266\062\045\331\262\363\275\145\305\015\054
\156\325\222\157\030\213\000\101\024\202\157\100\040\046\172\050
\017\365\036\177\047\367\224\261\067\075\267\307\221\367\342\001
\354\375\224\211\341\314\156\323\066\326\012\031\171\256\327\064
\202\145\377\174\102\273\266\335\013\246\064\257\113\140\376\177
\103\111\006\213\214\103\270\126\362\331\177\041\103\027\352\247
\110\225\001\165\165\352\053\245\103\225\352\025\204\235\010\215
\046\156\125\233\253\334\322\071\322\061\035\140\342\254\314\126
\105\044\365\034\124\253\356\206\335\226\062\205\370\114\117\350
\225\166\266\005\335\066\043\147\274\377\025\342\312\073\346\246
\354\073\354\046\021\064\110\215\366\200\053\032\043\002\353\212
\034\072\166\052\173\126\026\034\162\052\263\252\343\140\245\000
\237\004\233\342\157\036\024\130\133\245\154\213\130\074\303\272
\116\072\134\367\341\226\053\076\357\007\274\244\345\135\314\115
\237\015\341\334\252\273\341\156\032\354\217\341\266\114\115\171
\162\135\027\065\013\035\327\301\107\332\226\044\340\320\162\250
\132\137\146\055\020\334\057\052\023\256\046\376\012\034\031\314
\320\076\013\234\310\011\056\371\133\226\172\107\234\351\172\363
\005\120\164\225\163\236\060\011\363\227\202\136\346\217\071\010
\036\131\345\065\024\102\023\377\000\234\367\276\252\120\317\342
\121\110\327\270\157\257\370\116\176\063\230\222\024\142\072\165
\143\317\173\372\336\202\073\251\273\071\342\304\275\054\000\016
\310\027\254\023\357\115\045\216\330\263\220\057\251\332\051\175
\035\257\164\072\262\047\300\301\036\076\165\243\026\251\257\172
\042\135\237\023\032\317\247\240\353\343\206\012\323\375\346\226

\225\327\043\310\067\335\304\174\252\066\254\230\032\022\261\340
\116\350\261\073\365\326\157\361\060\327\002\003\001\000\001\243
\102\060\100\060\017\006\003\125\035\023\001\001\377\004\005\060
\003\001\001\377\060\016\006\003\125\035\017\001\001\377\004\004
\003\002\001\006\060\035\006\003\125\035\016\004\026\004\024\113
\305\264\100\153\255\034\263\245\034\145\156\106\066\211\207\005
\014\016\266\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\003\202\002\001\000\163\127\077\054\325\225\062\176\067
\333\226\222\353\031\136\176\123\347\101\354\021\266\107\357\265
\336\355\164\134\305\361\216\111\340\374\156\231\023\315\237\212
\332\315\072\012\330\072\132\011\077\137\064\320\057\003\322\146
\035\032\275\234\220\067\310\014\216\007\132\224\105\106\052\346
\276\172\332\241\251\244\151\022\222\260\175\066\324\104\207\327
\121\361\051\143\326\165\315\026\344\047\211\035\370\302\062\110
\375\333\231\320\217\137\124\164\314\254\147\064\021\142\331\014
\012\067\207\321\243\027\110\216\322\027\035\366\327\375\333\145
\353\375\250\324\365\326\117\244\133\165\350\305\322\140\262\333
\011\176\045\213\173\272\122\222\236\076\350\305\167\241\074\340
\112\163\153\141\317\206\334\103\377\377\041\376\043\135\044\112
\365\323\155\017\142\004\005\127\202\332\156\244\063\045\171\113
\056\124\031\213\314\054\075\060\351\321\006\377\350\062\106\276
\265\063\166\167\250\001\135\226\301\301\325\276\256\045\300\311
\036\012\011\040\210\241\016\311\363\157\115\202\124\000\040\247
\322\217\344\071\124\027\056\215\036\270\033\273\033\275\232\116
\073\020\064\334\234\210\123\357\242\061\133\130\117\221\142\310
\302\232\232\315\025\135\070\251\326\276\370\023\265\237\022\151
\362\120\142\254\373\027\067\364\356\270\165\147\140\020\373\203
\120\371\104\265\165\234\100\027\262\376\375\171\135\156\130\130
\137\060\374\000\256\257\063\301\016\116\154\272\247\246\241\177
\062\333\070\340\261\162\027\012\053\221\354\152\143\046\355\211
\324\170\314\164\036\005\370\153\376\214\152\166\071\051\256\145
\043\022\225\010\042\034\227\316\133\006\356\014\342\273\274\037
\104\223\366\330\070\105\005\041\355\344\255\253\022\266\003\244
\102\056\055\304\011\072\003\147\151\204\232\341\131\220\212\050
\205\325\135\164\261\321\016\040\130\233\023\245\260\143\246\355
\173\107\375\105\125\060\244\356\232\324\346\342\207\357\230\311
\062\202\021\051\042\274\000\012\061\136\055\017\300\216\351\153
\262\217\056\006\330\321\221\307\306\022\364\114\375\060\027\303
\301\332\070\133\343\251\352\346\241\272\171\357\163\330\266\123
\127\055\366\320\341\327\110
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER
 CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate

```
# Trust for "StartCom Certification Authority G2"
# Issuer: CN=StartCom Certification Authority G2,O=StartCom Ltd.,C=IL
# Serial Number: 59 (0x3b)
# Subject: CN=StartCom Certification Authority G2,O=StartCom Ltd.,C=IL
# Not Valid Before: Fri Jan 01 01:00:01 2010
# Not Valid After: Sat Dec 31 23:59:01 2039
# Fingerprint (MD5): 78:4b:fb:9e:64:82:0a:d3:b8:4c:62:f3:64:f2:90:64
# Fingerprint (SHA1): 31:f1:fd:68:22:63:20:ee:c6:3b:3f:9d:ea:4a:3e:53:7c:7c:39:17
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "StartCom Certification Authority G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\061\361\375\150\042\143\040\356\306\073\077\235\352\112\076\123
\174\174\071\027
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\170\113\373\236\144\202\012\323\270\114\142\363\144\362\220\144
END
CKA_ISSUER MULTILINE_OCTAL
\060\123\061\013\060\011\006\003\125\004\006\023\002\111\114\061
\026\060\024\006\003\125\004\012\023\015\123\164\141\162\164\103
\157\155\040\114\164\144\056\061\054\060\052\006\003\125\004\003
\023\043\123\164\141\162\164\103\157\155\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\107\062
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\001\073
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Symantec Class 3 Public Primary Certification Authority - G6"
# Issuer: CN=Symantec Class 3 Public Primary Certification Authority - G6,OU=Symantec Trust
Network,O=Symantec Corporation,C=US
# Serial Number:65:63:71:85:d3:6f:45:c6:8f:7f:31:f9:09:87:92:82
# Subject: CN=Symantec Class 3 Public Primary Certification
 Authority - G6,OU=Symantec Trust Network,O=Symantec Corporation,C=US
# Not Valid Before: Thu Oct 18 00:00:00 2012
# Not Valid After: Tue Dec 01 23:59:59 2037
# Fingerprint (MD5): 8d:d1:96:24:c4:4c:8f:5d:26:f4:6c:8d:52:41:1a:c6
# Fingerprint (SHA1): 26:a1:6c:23:5a:24:72:22:9b:23:62:80:25:bc:80:97:c8:85:24:a1
```

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Symantec Class 3 Public Primary Certification Authority - G6"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\224\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\035\060\033\006\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\103\157\162\160\157\162\141\164\151\157\156\061
\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\164
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\103\006\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\063\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\066
END
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\224\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\035\060\033\006\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\103\157\162\160\157\162\141\164\151\157\156\061
\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\164
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\103\006\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\063\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\066
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\145\143\161\205\323\157\105\306\217\177\061\371\011\207
\222\202
END
CKA_VALUE
MULTILINE_OCTAL
\060\202\005\366\060\202\003\336\240\003\002\001\002\002\020\145
\143\161\205\323\157\105\306\217\177\061\371\011\207\222\202\060
\015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\201
\224\061\013\060\011\006\003\125\004\006\023\002\125\123\061\035
\060\033\006\003\125\004\012\023\024\123\171\155\141\156\164\145
\143\040\103\157\162\160\157\162\141\164\151\157\156\061\037\060
\035\006\003\125\004\013\023\026\123\171\155\141\156\164\145\143
\040\124\162\165\163\164\040\116\145\164\167\157\162\153\061\105
\060\103\006\003\125\004\003\023\074\123\171\155\141\156\164\145
\143\040\103\154\141\163\163\040\063\040\120\165\142\154\151\143

\040\120\162\151\155\141\162\171\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
\040\055\040\107\066\060\036\027\015\061\062\061\060\061\070\060
\060\060\060\060\060\132\027\015\063\067\061\062\060\061\062\063
\065\071\065\071\132\060\201\224\061\013\060\011\006\003\125\004
\006\023\002\125\123\061\035\060\033\006\003\125\004\012\023\024
\123\171\155\141\156\164\145\143\040\103\157\162\160\157\162\141
\164\151\157\156\061\037\060\035\006\003\125\004\013\023\026\123
\171\155\141\156\164\145\143\040\124\162\165\163\164\040\116\145
\164\167\157\162\153\061\105\060\103\006\003\125\004\003\023\074
\123\171\155\141\156\164\145\143\040\103\154\141\163\163\040\063
\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171\040
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165
\164\150\157\162\151\164\171\040\055\040\107\066\060\202\002\042
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\002\017\000\060\202\002\012\002\202\002\001\000\267\016\262
\372\115\274\232\162\025\373\167\133\333\375\103\017\313\013\367
\140\056\263\053\176\014\273\123\362\314\116\145\363\031\273\377
\065\035\367\323\251\273\100\055\265\335\170\324\246\371\067\352
\205\005\173\155\267\346\023\113\006\174\373\166\143\217\040\035
\055\070\053\004\205\362\350\260\321\137\115\112\041\311\152\330
\224\352\036\002\120\246\252\220\007\240\107\041\352\146\371\004
\240\346\203\360\304\365\136\226\342\047\115\141\303\263\301\214
\042\266\146\241\000\321\126\051\373\355\301\177\044\312\075\372
\132\224\260\204\303\307\272\103\034\375\144\016\361\050\373\107
\131\362\046\341\061\271\104\371\253\335\373\276\276\054\067\343
\254\013\030\323\374\001\242\361\244\012\065\202\107\114\253\275
\212\136\337\023\205\374\040\314\110\131\257\257\101\157\313\043
\315\312\223\247\335\325\137\310\144\073\377\001\003\240\012\117
\055\156\075\204\276\257\310\062\262\123\051\220\025\367\260\005
\232\012\074\366\271\006\220\311\245\341\135\240\073\260\376\250
\266\277\365\211\050\127\044\072\041\206\161\344\334\212\213\101
\125\354\036\060\044\131\321\300\131\270\170\257\252\132\164\336
\045\200\060\230\355\060\104\157\041\160\034\333\022\123\016\326
\246\050\146\223\054\037\314\117\074\033\201\305\271\366\170\157
\320\062\072\010\162\333\153\016\106\027\205\224\363\274\357\274
\367\244\136\216\351\351\265\144\345\267\113\105\022\054\114\067
\267\140\103\012\115\161\006\000\224\046\065\164\037\273\172\071
\134\116\073\346\270\003\342\307\223\213\204\054\045\111\105\335
\177\043\224\140\037\313\351\315\366\253\227\367\141\347\373\177
\142\201\310\334\012\060\134\030\174\346\316\357\307\156\036\207
\174\263\351\312\310\173\152\364\150\374\203\245\014\126\264\272
\262\215\112\012\307\227\227\305\210\060\025\075\020\010\124\025
\162\162\147\063\063\364\174\267\316\000\047\123\145\316\044\361
\132\144\347\066\057\362\056\002\302\227\337\162\350\002\036\240
\367\075\265\373\150\140\003\372\063\251\346\022\155\006\341\251
\250\135\116\074\376\331\347\000\145\254\266\031\115\173\203\177
\064\107\352\341\030\155\261\213\034\171\253\347\235\002\003\001

\000\001\243\102\060\100\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\006\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026
\004\024\071\161\010\000\076\336\310\206\347\220\377\344\375\041
\017\316\044\031\026\366\060\015\006\011\052\206\110\206\367\015
\001\001\014\005\000\003\202\002\001\000\120\153\210\115\140\110
\316\132\343\042\316\147\174\204\247\315\034\375\351\014\003\214
\066\257\012\207\016\152\256\127\256\001\320\066\273\362\375\271
\163\301\137\265\250\256\114\242\372\111\313\007\106\026\066\275
\343\310\127\070\176\070\344\277\045\063\140\306\334\067\234\143
\273\136\230\036\032\262\202\360\256\246\167\021\200\104\107\241
\051\305\360\263\072\316\230\360\270\354\323\016\200\006\167\043
\060\114\377\171\144\143\042\133\167\223\103\113\165\263\333\073
\156\073\112\335\361\310\256\265\067\212\225\210\072\020\150\160
\070\271\133\160\176\325\103\311\374\137\117\345\346\173\066\356
\360\040\355\107\127\023\046\020\136\024\006\015\173\166\007\302
\306\055\026\364\256\247\154\017\274\210\017\117\054\002\266\243
\327\042\346\231\107\065\330\215\245\117\201\022\072\021\175\263
\314\013\165\363\036\160\243\033\003\352\372\232\350\346\056\066
\071\314\231\316\072\077\014\267\256\370\103\231\260\223\156\157
\252\331\017\152\061\221\273\234\323\264\050\373\203\114\172\163
\202\120\147\322\016\254\355\140\305\262\135\065\230\317\207\176
\036\131\035\044\274\126\272\332\244\132\330\314\346\274\036\020
\217\033\214\216\363\301\333\267\276\324\260\133\145\217\026\150
\363\126\305\052\031\026\115\017\270\145\207\155\044\203\270\142
\334\340\107\141\032\210\173\316\116\177\375\334\306\015\132\232
\244\363\265\114\366\335\061\246\350\035\021\041\063\060\004\141
\175\034\340\076\117\215\077\265\213\022\000\132\175\251\241\000
\324\203\353\160\273\030\370\244\322\034\201\055\267\010\021\310
\046\173\266\324\345\017\003\106\162\324\045\100\036\276\111\135
\155\223\361\134\262\073\165\124\151\072\240\356\114\042\272\254
\232\342\010\255\105\143\005\112\122\065\166\304\064\365\136\007
\062\255\334\174\046\321\133\217\255\344\346\252\033\165\237\353
\135\264\350\300\251\025\174\116\112\007\162\337\106\311\324\221
\222\165\126\260\341\356\067\066\145\050\305\025\310\053\166\314
\155\157\031\203\364\375\332\025\342\101\347\063\171\106\203\127
\371\361\245\266\155\323\274\327\123\347\356\161\155\170\251\227
\247\356\040\234\031\025\162\025\075\004
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Symantec Class 3 Public Primary Certification Authority - G6"
Issuer: CN=Symantec Class 3 Public Primary Certification Authority - G6,OU=Symantec Trust Network,O=Symantec Corporation,C=US

```
# Serial Number:65:63:71:85:d3:6f:45:c6:8f:7f:31:f9:09:87:92:82
# Subject: CN=Symantec Class 3 Public Primary Certification Authority - G6,OU=Symantec Trust
Network,O=Symantec Corporation,C=US
# Not Valid Before: Thu Oct 18 00:00:00 2012
# Not Valid After: Tue Dec 01 23:59:59 2037
# Fingerprint (MD5): 8d:d1:96:24:c4:4c:8f:5d:26:f4:6c:8d:52:41:1a:c6
# Fingerprint (SHA1): 26:a1:6c:23:5a:24:72:22:9b:23:62:80:25:bc:80:97:c8:85:24:a1
CKA_CLASS
 CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Symantec Class 3 Public Primary Certification Authority - G6"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\046\241\154\043\132\044\162\042\233\043\142\200\045\274\200\227
\310\205\044\241
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\215\321\226\044\304\114\217\135\046\364\154\215\122\101\032\306
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\224\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\035\060\033\006\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\103\157\162\160\157\162\141\164\151\157\156\061
\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\164
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\103\006\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\063\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\066
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\145\143\161\205\323\157\105\306\217\177\061\371\011\207
\222\202
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Symantec Class 3 Public Primary Certification Authority - G4"
# Issuer: CN=Symantec Class 3 Public Primary Certification Authority - G4,OU=Symantec Trust
Network,O=Symantec Corporation,C=US
# Serial Number:4c:79:b5:9a:28:9c:76:31:64:f5:89:44:d0:91:02:de
# Subject: CN=Symantec Class 3 Public Primary Certification Authority - G4,OU=Symantec Trust
```

```
Network,O=Symantec Corporation,C=US
# Not Valid Before: Thu Oct 18 00:00:00 2012
# Not Valid After: Tue Dec 01 23:59:59 2037
#
 Fingerprint (MD5): 36:c9:b7:4b:6c:b0:21:4c:c7:11:17:b1:18:fe:2b:4d
# Fingerprint (SHA1): 58:d5:2d:b9:33:01:a4:fd:29:1a:8c:96:45:a0:8f:ee:7f:52:92:82
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Symantec Class 3 Public Primary Certification Authority - G4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\224\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\035\060\033\006\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\103\157\162\160\157\162\141\164\151\157\156\061
\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\164
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\103\006\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\063\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\064
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\224\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\035\060\033\006\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\103\157\162\160\157\162\141\164\151\157\156\061
\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\164
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\103\006\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\063\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\064
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\114\171\265\232\050\234\166\061\144\365\211\104\320\221
\002\336
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\247\060\202\002\055\240\003\002\001\002\002\020\114
\171\265\232\050\234\166\061\144\365\211\104\320\221\002\336\060
\012\006\010\052\206\110\316\075\004\003\003\060\201\224\061\013
\060\011\006\003\125\004\006\023\002\125\123\061\035\060\033\006
\003\125\004\012\023\024\123\171\155\141\156\164\145\143\040\103
```

\157\162\160\157\162\141\164\151\157\156\061\037\060\035\006\003
\125\004\013\023\026\123\171\155\141\156\164\145\143\040\124\162
\165\163\164\040\116\145\164\167\157\162\153\061\105\060\103\006
\003\125\004\003\023\074\123\171\155\141\156\164\145\143\040\103
\154\141\163\163\040\063\040\120\165\142\154\151\143\040\120\162
\151\155\141\162\171\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040
\107\064\060\036\027\015\061\062\061\060\061\070\060\060\060\060
\060\060\132\027\015\063\067\061\062\060\061\062\063\065\071\065
\071\132\060\201\224\061\013\060\011\006\003\125\004\006\023\002
\125\123\061\035\060\033\006\003\125\004\012\023\024\123\171\155
\141\156\164\145\143\040\103\157\162\160\157\162\141\164\151\157
\156\061\037\060\035\006\003\125\004\013\023\026\123\171\155\141
\156\164\145\143\040\124\162\165\163\164\040\116\145\164\167\157
\162\153\061\105\060\103\006\003\125\004\003\023\074\123\171\155
\141\156\164\145\143\040\103\154\141\163\163\040\063\040\120\165
\142\154\151\143\040\120\162\151\155\141\162\171\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171\040\055\040\107\064\060\166\060\020\006\007\052
\206\110\316\075\002\001\006\005\053\201\004\000\042\003\142\000
\004\127\317\352\263\071\115\077\241\041\340\156\057\070\162\306
\207\227\363\205\013\107\347\017\121\310\321\364\231\233\312\131
\145\377\114\371\352\013\267\045\325\322\366\354\061\055\062\142
\022\327\166\206\247\372\070\311\145\324\376\163\342\204\071\370
\114\111\142\023\335\272\325\210\240\137\075\310\117\260\077\217
\241\120\021\344\223\106\255\303\137\313\361\244\152\225\126\350
\300\243\102\060\100\060\016\006\003\125\035\017\001\001\377\004
\004\003\002\001\006\060\017\006\003\125\035\023\001\001\377\004
\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026\004
\024\044\235\274\322\161\367\035\302\045\276\042\361\211\245\054
\025\073\064\036\136\060\012\006\010\052\206\110\316\075\004\003
\003\003\150\000\060\145\002\061\000\271\146\150\145\333\005\320
\070\175\016\363\310\165\141\270\320\050\304\261\112\063\121\130
\373\362\074\020\310\256\107\170\166\312\146\044\027\206\076\120
\126\156\245\055\231\210\270\275\044\002\060\003\352\247\347\250
\074\352\235\142\306\137\124\332\230\364\167\275\117\217\030\234
\221\134\107\153\100\115\020\035\263\341\211\312\013\042\310\032
\305\305\376\213\335\301\337\157\170\237\221
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Symantec Class 3 Public Primary Certification Authority - G4"
Issuer: CN=Symantec Class 3 Public Primary Certification Authority - G4,OU=Symantec Trust Network,O=Symantec

```
 Corporation,C=US
# Serial Number:4c:79:b5:9a:28:9c:76:31:64:f5:89:44:d0:91:02:de
# Subject: CN=Symantec Class 3 Public Primary Certification Authority - G4,OU=Symantec Trust
Network,O=Symantec Corporation,C=US
# Not Valid Before: Thu Oct 18 00:00:00 2012
# Not Valid After: Tue Dec 01 23:59:59 2037
# Fingerprint (MD5): 36:c9:b7:4b:6c:b0:21:4c:c7:11:17:b1:18:fe:2b:4d
# Fingerprint (SHA1): 58:d5:2d:b9:33:01:a4:fd:29:1a:8c:96:45:a0:8f:ee:7f:52:92:82
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Symantec Class 3 Public Primary Certification Authority - G4"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\130\325\055\271\063\001\244\375\051\032\214\226\105\240\217\356
\177\122\222\202
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\066\311\267\113\154\260\041\114\307\021\027\261\030\376\053\115
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\224\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\035\060\033\006\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\103\157\162\160\157\162\141\164\151\157\156\061
\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\164
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\103\006\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\063\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\064
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\114\171\265\232\050\234\166\061\144\365\211\104\320\221
\002\336
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Hellenic Academic and Research Institutions RootCA 2011"
# Issuer: CN=Hellenic
 Academic and Research Institutions RootCA 2011,O=Hellenic Academic and Research Institutions Cert.
Authority,C=GR
# Serial Number: 0 (0x0)
```

Subject: CN=Hellenic Academic and Research Institutions RootCA 2011,O=Hellenic Academic and Research Institutions Cert. Authority,C=GR
Not Valid Before: Tue Dec 06 13:49:52 2011
Not Valid After: Mon Dec 01 13:49:52 2031
Fingerprint (MD5): 73:9f:4c:4b:73:5b:79:e9:fa:ba:1c:ef:6e:cb:d5:c9
Fingerprint (SHA1): fe:45:65:9b:79:03:5b:98:a1:61:b5:51:2e:ac:da:58:09:48:22:4d
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions RootCA 2011"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\225\061\013\060\011\006\003\125\004\006\023\002\107\122
\061\104\060\102\006\003\125\004\012\023\073\110\145\154\154\145
\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144
\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164
\165\164\151\157\156\163\040\103\145\162\164\056\040\101\165\164
\150\157\162\151\164\171\061\100\060\076\006\003\125\004\003\023
\067\110\145\154\154\145\156\151\143\040\101\143\141\144\145\155
\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150\040
\111\156\163\164\151\164\165\164\151\157\156\163\040\122\157\157
\164\103\101\040\062\060\061\061
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\225\061\013\060\011\006\003\125\004\006\023\002\107\122
\061\104\060\102\006\003\125\004\012\023\073\110\145\154\154\145
\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144
\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164
\165\164\151\157\156\163\040\103\145\162\164\056\040\101\165\164
\150\157\162\151\164\171\061\100\060\076\006\003\125\004\003\023
\067\110\145\154\154\145\156\151\143\040\101\143\141\144\145\155
\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150\040
\111\156\163\164\151\164\165\164\151\157\156\163\040\122\157\157
\164\103\101\040\062\060\061\061
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\061\060\202\003\031\240\003\002\001\002\002\001\000
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\201\225\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\104\060\102\006\003\125\004\012\023\073\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040

\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\145\162\164\056\040\101\165\164\150
\157\162\151\164\171\061\100\060\076\006\003\125\004\003\023\067
\110\145\154\154\145\156\151\143\040\101\143\141\144\145\155\151
\143\040\141\156\144\040\122\145\163\145\141\162\143\150\040\111
\156\163\164\151\164\165\164\151\157\156\163\040\122\157\157\164
\103\101\040\062\060\061\061\060\036\027\015\061\061\061\062\060
\066\061\063\064\071\065\062\132\027\015\063\061\061\062\060\061
\061\063\064\071\065\062\132\060\201\225\061\013\060\011\006\003
\125\004\006\023\002\107\122\061\104\060\102\006\003\125\004\012
\023\073\110\145\154\154\145\156\151\143\040\101\143\141\144\145
\155\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150
\040\111\156\163\164\151\164\165\164\151\157\156\163\040\103\145
\162\164\056\040\101\165\164\150\157\162\151\164\171\061\100\060
\076\006\003\125\004\003\023\067\110\145\154\154\145\156\151\143
\040\101\143\141\144\145\155\151\143\040\141\156\144\040\122\145
\163\145\141\162\143\150\040\111\156\163\164\151\164\165\164\151
\157\156\163\040\122\157\157\164\103\101\040\062\060\061\061\060
\202\001\042\060\015\006\011\052\206\110\206\367\015\001\001\001
\005\000\003\202\001\017\000\060\202\001\012\002\202\001\001\000
\251\123\000\343\056\246\366\216\372\140\330\055\225\076\370\054
\052\124\116\315\271\204\141\224\130\117\217\075\213\344\103\363
\165\211\215\121\344\303\067\322\212\210\115\171\036\267\022\335
\103\170\112\212\222\346\327\110\325\017\244\072\051\104\065\270
\007\366\150\035\125\315\070\121\360\214\044\061\205\257\203\311
\175\351\167\257\355\032\173\235\027\371\263\235\070\120\017\246
\132\171\221\200\257\067\256\246\323\061\373\265\046\011\235\074
\132\357\121\305\053\337\226\135\353\062\036\002\332\160\111\354
\156\014\310\232\067\215\367\361\066\140\113\046\054\202\236\320
\170\363\015\017\143\244\121\060\341\371\053\047\022\007\330\352
\275\030\142\230\260\131\067\175\276\356\363\040\121\102\132\203
\357\223\272\151\025\361\142\235\237\231\071\202\241\267\164\056
\213\324\305\013\173\057\360\310\012\332\075\171\012\232\223\034
\245\050\162\163\221\103\232\247\321\115\205\204\271\251\164\217
\024\100\307\334\336\254\101\144\154\264\031\233\002\143\155\044
\144\217\104\262\045\352\316\135\164\014\143\062\134\215\207\345
\002\003\001\000\001\243\201\211\060\201\206\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\013\006\003
\125\035\017\004\004\003\002\001\006\060\035\006\003\125\035\016
\004\026\004\024\246\221\102\375\023\141\112\043\236\010\244\051
\345\330\023\004\043\356\101\045\060\107\006\003\125\035\036\004
\100\060\076\240\074\060\005\202\003\056\147\162\060\005\202\003
\056\145\165\060\006\202\004\056\145\144\165\060\006\202\004\056
\157\162\147\060\005\201\003\056\147\162\060\005\201\003\056\145
\165\060\006\201\004\056\145\144\165\060\006\201\004\056\157\162
\147\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000
\003\202\001\001\000\037\357\171\101\341\173\156\077\262\214\206
\067\102\112\116\034\067\036\215\146\272\044\201\311\117\022\017

\041\300\003\227\206\045\155\135\323\042\051\250\154\242\015\251
\353\075\006\133\231\072\307\314\303\232\064\177\253\016\310\116
\034\341\372\344\334\315\015\276\277\044\376\154\347\153\302\015
\310\006\236\116\215\141\050\246\152\375\345\366\142\352\030\074
\116\240\123\235\262\072\234\353\245\234\221\026\266\115\202\340
\014\005\110\251\154\365\314\370\313\235\111\264\360\002\245\375
\160\003\355\212\041\245\256\023\206\111\303\063\163\276\207\073
\164\213\027\105\046\114\026\221\203\376\147\175\315\115\143\147
\372\363\003\022\226\170\006\215\261\147\355\216\077\276\237\117
\002\365\263\011\057\363\114\207\337\052\313\225\174\001\314\254
\066\172\277\242\163\172\367\217\301\265\232\241\024\262\217\063
\237\015\357\042\334\146\173\204\275\105\027\006\075\074\312\271
\167\064\217\312\352\317\077\061\076\343\210\343\200\111\045\310
\227\265\235\232\231\115\260\074\370\112\000\233\144\335\237\071
\113\321\047\327\270
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Hellenic Academic and Research Institutions RootCA 2011"
Issuer: CN=Hellenic Academic and Research Institutions RootCA 2011,O=Hellenic Academic and Research Institutions Cert. Authority,C=GR
Serial Number: 0 (0x0)
Subject: CN=Hellenic Academic and Research
Institutions RootCA 2011,O=Hellenic Academic and Research Institutions Cert. Authority,C=GR
Not Valid Before: Tue Dec 06 13:49:52 2011
Not Valid After: Mon Dec 01 13:49:52 2031
Fingerprint (MD5): 73:9f:4c:4b:73:5b:79:e9:fa:ba:1c:ef:6e:cb:d5:c9
Fingerprint (SHA1): fe:45:65:9b:79:03:5b:98:a1:61:b5:51:2e:ac:da:58:09:48:22:4d
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions RootCA 2011"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\376\105\145\233\171\003\133\230\241\141\265\121\056\254\332\130
\011\110\042\115
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\163\237\114\113\163\133\171\351\372\272\034\357\156\313\325\311
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\225\061\013\060\011\006\003\125\004\006\023\002\107\122
\061\104\060\102\006\003\125\004\012\023\073\110\145\154\154\145
\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144

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\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164
\165\164\151\157\156\163\040\103\145\162\164\056\040\101\165\164
\150\157\162\151\164\171\061\100\060\076\006\003\125\004\003\023
\067\110\145\154\154\145\156\151\143\040\101\143\141\144\145\155
\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150\040
\111\156\163\164\151\164\165\164\151\157\156\163\040\122\157\157
\164\103\101\040\062\060\061\061
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "ATHEX Root CA"
# Issuer: CN=ATHEX Root CA,O=Athens Exchange S.A.,C=GR
# Serial Number: 10012 (0x271c)
# Subject: CN=ATHEX Root CA,O=Athens Exchange S.A.,C=GR
# Not Valid Before: Mon Oct 18 15:56:03 2010
# Not Valid After: Thu Oct 17 21:00:00 2030
# Fingerprint
 (MD5): af:2b:7a:55:2d:3a:35:02:a4:92:40:16:0c:fa:98:26
# Fingerprint (SHA1): db:2b:7b:43:4d:fb:7f:c1:cb:59:26:ec:5d:95:21:fe:35:0f:f2:79
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ATHEX Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\035\060\033\006\003\125\004\012\023\024\101\164\150\145\156\163
\040\105\170\143\150\141\156\147\145\040\123\056\101\056\061\026
\060\024\006\003\125\004\003\023\015\101\124\110\105\130\040\122
\157\157\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\035\060\033\006\003\125\004\012\023\024\101\164\150\145\156\163
\040\105\170\143\150\141\156\147\145\040\123\056\101\056\061\026
\060\024\006\003\125\004\003\023\015\101\124\110\105\130\040\122
\157\157\164\040\103\101
END
```

CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\002\047\034
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\067\060\202\002\037\240\003\002\001\002\002\002\047
\034\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000
\060\104\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\035\060\033\006\003\125\004\012\023\024\101\164\150\145\156\163
\040\105\170\143\150\141\156\147\145\040\123\056\101\056\061\026
\060\024\006\003\125\004\003\023\015\101\124\110\105\130\040\122
\157\157\164\040\103\101\060\036\027\015\061\060\061\060\061\070
\061\065\065\066\060\063\132\027\015\063\060\061\060\061\067\062
\061\060\060\060\060\132\060\104\061\013\060\011\006\003\125\004
\006\023\002\107\122\061\035\060\033\006\003\125\004\012\023\024
\101\164\150\145\156\163\040\105\170\143\150\141\156\147\145\040
\123\056\101\056\061\026\060\024\006\003\125\004\003\023\015\101
\124\110\105\130\040\122\157\157\164\040\103\101\060\202\001\042
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\001\017\000\060\202\001\012\002\202\001\001\000\315\032\075
\060\265\263\070\262\277\172\273\256\241\326\327\205\360\042\072
\244\211\151\304\341\142\004\311\160\323\074\063\022\342\346\070
\345\167\244\044\104\144\015\267\256\114\132\335\341\030\006\076
\355\233\132\005\365\341\336\022\355\066\052\334\107\331\221\121
\231\355\261\277\152\163\241\012\010\044\250\212\215\034\013\131
\323\277\160\043\125\104\240\214\060\305\316\155\117\260\354\276
\363\214\061\337\012\132\334\323\127\134\005\240\063\225\073\227
\217\124\013\270\365\153\175\307\305\254\265\171\216\006\070\361
\250\051\125\075\232\066\320\047\137\064\152\022\170\027\050\331
\230\111\354\331\132\122\332\046\072\372\356\114\246\046\216\250
\076\125\037\262\037\341\265\233\371\072\065\366\355\221\034\375
\013\020\044\375\037\371\323\343\000\045\261\013\045\300\267\175
\232\074\007\072\200\013\326\250\376\221\105\350\301\322\305\042
\157\323\345\161\037\266\054\066\264\130\240\355\315\112\150\344
\152\127\364\241\165\354\327\000\231\325\366\231\134\353\116\311
\273\327\032\243\105\131\000\017\214\073\333\164\065\002\003\001
\000\001\243\063\060\061\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\001\001\377\060\021\006\003\125\035\016\004\012
\004\010\103\342\200\350\273\322\267\301\060\013\006\003\125\035
\017\004\004\003\002\001\006\060\015\006\011\052\206\110\206\367
\015\001\001\005\005\000\003\202\001\001\000\077\001\143\165\007
\062\053\137\165\377\166\216\323\251\270\157\314\120\075\204\127
\117\050\203\350\174\243\156\242\274\367\302\272\256\072\253\116
\320\017\222\050\270\335\133\054\333\345\326\037\072\223\341\221
\016\327\252\137\001\141\054\076\141\117\336\225\025\115\314\075
\352\062\342\243\376\370\026\251\362\274\051\374\051\236\175\162
\245\135\241\153\002\325\137\110\364\240\073\313\030\106\360\075
\027\125\203\320\051\141\221\273\232\101\111\321\023\276\101\224

\362\076\303\044\253\237\307\153\102\220\102\171\176\132\121\373
\074\136\013\041\037\313\331\110\023\025\261\152\177\003\304\321
\272\121\322\160\211\252\010\112\207\034\366\172\230\261\324\121
\005\125\306\220\027\157\303\340\004\300\172\364\057\030\242\126
\102\163\056\266\262\233\321\071\276\011\302\002\112\044\027\371
\367\254\275\161\007\277\225\342\227\345\241\204\010\215\262\342
\104\241\334\211\060\073\250\014\005\172\135\166\000\117\036\157
\161\177\053\071\332\105\102\071\061\322\251\062\100\324\070\143
\023\226\067\232\111\135\331\307\375\270\114
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "ATHEX Root CA"
Issuer: CN=ATHEX Root CA,O=Athens Exchange S.A.,C=GR
Serial Number: 10012 (0x271c)
Subject: CN=ATHEX Root CA,O=Athens Exchange S.A.,C=GR
Not Valid Before: Mon Oct 18 15:56:03 2010
Not Valid After: Thu Oct 17 21:00:00 2030
Fingerprint (MD5): af:2b:7a:55:2d:3a:35:02:a4:92:40:16:0c:fa:98:26
Fingerprint (SHA1): db:2b:7b:43:4d:fb:7f:c1:cb:59:26:ec:5d:95:21:fe:35:0f:f2:79
CKA_CLASS
 CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ATHEX Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\333\053\173\103\115\373\177\301\313\131\046\354\135\225\041\376
\065\017\362\171
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\257\053\172\125\055\072\065\002\244\222\100\026\014\372\230\046
END
CKA_ISSUER MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\035\060\033\006\003\125\004\012\023\024\101\164\150\145\156\163
\040\105\170\143\150\141\156\147\145\040\123\056\101\056\061\026
\060\024\006\003\125\004\003\023\015\101\124\110\105\130\040\122
\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\047\034
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

```
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED
 CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Halcom Root CA"
# Issuer: CN=Halcom Root CA,O=Halcom,C=SI
# Serial Number: 504275 (0x7b1d3)
# Subject: CN=Halcom Root CA,O=Halcom,C=SI
# Not Valid Before: Wed Feb 08 09:55:41 2012
# Not Valid After: Sun Feb 08 09:55:41 2032
# Fingerprint (MD5): c3:8b:d2:53:ac:00:ec:d1:db:97:61:a5:38:d9:7d:87
# Fingerprint (SHA1): 53:5b:00:16:72:ab:bf:7b:6c:c2:54:05:ae:4d:24:fe:03:3f:d1:cc
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Halcom Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\067\061\013\060\011\006\003\125\004\006\023\002\123\111\061
\017\060\015\006\003\125\004\012\023\006\110\141\154\143\157\155
\061\027\060\025\006\003\125\004\003\023\016\110\141\154\143\157
\155\040\122\157\157\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\067\061\013\060\011\006\003\125\004\006\023\002\123\111\061
\017\060\015\006\003\125\004\012\023\006\110\141\154\143\157\155
\061\027\060\025\006\003\125\004\003\023\016\110\141\154\143\157
\155\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\003\007\261\323
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\036\060\202\002\006\240\003\002\001\002\002\003\007
\261\323\060\015\006\011\052\206\110\206\367\015\001\001\015\005
\000\060\067\061\013\060\011\006\003\125\004\006\023\002\123\111
\061\017\060\015\006\003\125\004\012\023\006\110\141\154\143\157
\155\061\027\060\025\006\003\125\004\003\023\016\110\141\154\143
\157\155\040\122\157\157\164\040\103\101\060\036\027\015\061\062
\060\062\060\070\060\071\065\065\064\061\132\027\015\063\062\060
\062\060\070\060\071\065\065\064\061\132\060\067\061\013\060\011
\006\003\125\004\006\023\002\123\111\061\017\060\015\006\003\125
\004\012\023\006\110\141\154\143\157\155\061\027\060\025\006\003
```

\125\004\003\023\016\110\141\154\143\157\155\040\122\157\157\164
\040\103\101\060\202\001\042\060\015\006\011\052\206\110\206\367
\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002
\202\001\001\000\211\271\205\312\376\364\165\175\177\354\235\102
\067\272\272\215\274\354\075\027\003\375\331\105\145\326\315\311
\116\137\214\110\134\227\010\127\024\213\055\234\074\220\111\231
\317\151\257\111\215\333\034\001\260\156\351\364\352\221\147\135
\312\263\151\117\330\314\301\015\075\356\252\003\166\340\311\160
\242\237\376\353\233\320\266\311\226\323\360\373\133\320\360\007
\253\114\136\115\244\342\107\136\005\150\164\246\216\042\107\356
\176\323\147\204\124\067\222\107\016\363\243\354\025\032\363\155
\173\277\031\065\041\217\202\113\254\124\234\011\315\156\266\301
\127\275\320\111\075\157\237\163\216\261\154\176\275\376\326\273
\075\003\350\346\114\032\264\356\257\264\203\116\062\220\124\366
\116\033\341\057\316\245\064\032\216\243\040\371\331\076\042\153
\157\156\343\372\331\063\134\010\240\367\025\000\075\234\020\222
\112\125\315\200\262\006\252\375\327\217\267\132\222\047\044\017
\063\074\050\272\361\037\150\265\167\051\136\256\302\332\215\066
\160\342\172\062\033\043\246\336\305\141\015\232\245\022\040\265
\363\226\131\265\002\003\001\000\001\243\063\060\061\060\017\006
\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060\021
\006\003\125\035\016\004\012\004\010\116\224\330\212\143\302\317
\171\060\013\006\003\125\035\017\004\004\003\002\001\006\060\015
\006\011\052\206\110\206\367\015\001\001\015\005\000\003\202\001
\001\000\051\276\347\261\344\372\003\242\017\257\166\131\235\370
\116\123\115\074\004\203\237\241\342\214\366\224\331\264\256\150
\052\126\153\062\123\050\203\007\162\114\260\116\250\035\201\203
\041\147\003\067\321\214\306\301\116\204\351\064\073\323\365\365
\047\266\215\043\005\122\270\114\062\362\056\332\321\052\175\076
\203\003\052\322\261\343\232\351\212\203\102\360\054\012\241\123
\017\300\053\342\217\032\116\225\271\105\274\113\147\072\275\062
\363\255\245\217\217\303\056\352\366\364\173\142\320\156\156\305
\141\061\023\146\346\147\111\231\073\057\200\117\172\174\163\212
\003\015\137\365\263\062\050\012\212\300\341\371\270\243\046\356
\334\033\127\317\166\032\117\123\276\366\112\213\127\027\053\057
\231\206\252\336\214\332\266\250\154\337\150\066\326\141\213\156
\300\163\116\267\071\105\364\175\316\111\304\363\035\371\251\167
\154\357\357\222\025\023\047\231\106\350\237\251\212\033\237\051
\057\242\035\076\326\053\307\344\125\020\072\030\367\263\173\117
\056\307\000\042\355\344\061\320\347\270\344\124\117\301\200\105
\045\156
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate

```
# Trust for "Halcom Root CA"
# Issuer: CN=Halcom Root CA,O=Halcom,C=SI
# Serial Number: 504275 (0x7b1d3)
# Subject: CN=Halcom Root CA,O=Halcom,C=SI
# Not Valid Before: Wed Feb 08 09:55:41 2012
# Not Valid After: Sun Feb 08 09:55:41 2032
# Fingerprint (MD5): c3:8b:d2:53:ac:00:ec:d1:db:97:61:a5:38:d9:7d:87
#
 Fingerprint (SHA1): 53:5b:00:16:72:ab:bf:7b:6c:c2:54:05:ae:4d:24:fe:03:3f:d1:cc
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Halcom Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\123\133\000\026\162\253\277\173\154\302\124\005\256\115\044\376
\003\077\321\314
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\303\213\322\123\254\000\354\321\333\227\141\245\070\331\175\207
END
CKA_ISSUER MULTILINE_OCTAL
\060\067\061\013\060\011\006\003\125\004\006\023\002\123\111\061
\017\060\015\006\003\125\004\012\023\006\110\141\154\143\157\155
\061\027\060\025\006\003\125\004\003\023\016\110\141\154\143\157
\155\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\007\261\323
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED
 CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Swisscom Root EV CA 2"
# Issuer: CN=Swisscom Root EV CA 2,OU=Digital Certificate Services,O=Swisscom,C=ch
# Serial Number:f2:fa:64:e2:74:63:d3:8d:fd:10:1d:04:1f:76:ca:58
# Subject: CN=Swisscom Root EV CA 2,OU=Digital Certificate Services,O=Swisscom,C=ch
# Not Valid Before: Fri Jun 24 09:45:08 2011
# Not Valid After: Wed Jun 25 08:45:08 2031
# Fingerprint (MD5): 7b:30:34:9f:dd:0a:4b:6b:35:ca:31:51:28:5d:ae:ec
# Fingerprint (SHA1): e7:a1:90:29:d3:d5:52:dc:0d:0f:c6:92:d3:ea:88:0d:15:2e:1a:6b
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
```

CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Swisscom Root EV CA 2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\147\061\013\060\011\006\003\125\004\006\023\002\143\150\061
\021\060\017\006\003\125\004\012\023\010\123\167\151\163\163\143
\157\155\061\045\060\043\006\003\125\004\013\023\034\104\151\147
\151\164\141\154\040\103\145\162\164\151\146\151\143\141\164\145
\040\123\145\162\166\151\143\145\163\061\036\060\034\006\003\125
\004\003\023\025\123\167\151\163\163\143\157\155\040\122\157\157
\164\040\105\126\040\103\101\040\062
END
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\147\061\013\060\011\006\003\125\004\006\023\002\143\150\061
\021\060\017\006\003\125\004\012\023\010\123\167\151\163\163\143
\157\155\061\045\060\043\006\003\125\004\013\023\034\104\151\147
\151\164\141\154\040\103\145\162\164\151\146\151\143\141\164\145
\040\123\145\162\166\151\143\145\163\061\036\060\034\006\003\125
\004\003\023\025\123\167\151\163\163\143\157\155\040\122\157\157
\164\040\105\126\040\103\101\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\362\372\144\342\164\143\323\215\375\020\035\004\037
\166\312\130
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\340\060\202\003\310\240\003\002\001\002\002\021\000
\362\372\144\342\164\143\323\215\375\020\035\004\037\166\312\130
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\147\061\013\060\011\006\003\125\004\006\023\002\143\150\061\021
\060\017\006\003\125\004\012\023\010\123\167\151\163\163\143\157
\155\061\045\060\043\006\003\125\004\013\023\034\104\151\147\151
\164\141\154\040\103\145\162\164\151\146\151\143\141\164\145\040
\123\145\162\166\151\143\145\163\061\036\060\034\006\003\125\004
\003\023\025\123\167\151\163\163\143\157\155\040\122\157\157\164
\040\105\126\040\103\101\040\062\060\036\027\015\061\061\060\066
\062\064\060\071\064\065\060\070\132\027\015\063\061\060\066\062
\065\060\070\064\065\060\070\132\060\147\061\013\060\011\006\003
\125\004\006\023\002\143\150\061\021\060\017\006\003\125\004\012
\023\010\123\167\151\163\163\143\157\155\061\045\060\043\006\003
\125\004\013\023\034\104\151\147\151\164\141\154\040\103\145\162
\164\151\146\151\143\141\164\145\040\123\145\162\166\151\143\145
\163\061\036\060\034\006\003\125\004\003\023\025\123\167\151\163
\163\143\157\155\040\122\157\157\164\040\105\126\040\103\101\040
\062\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001
\001\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002

\001\000\304\367\035\057\127\352\127\154\367\160\135\143\260\161
\122\011\140\104\050\063\243\172\116\012\372\330\352\154\213\121
\026\032\125\256\124\046\304\314\105\007\101\117\020\171\177\161
\322\172\116\077\070\116\263\000\306\225\312\133\315\301\052\203
\327\047\037\061\016\043\026\267\045\313\034\264\271\200\062\136
\032\235\223\361\350\074\140\054\247\136\127\031\130\121\136\274
\054\126\013\270\330\357\213\202\264\074\270\302\044\250\023\307
\240\041\066\033\172\127\051\050\247\056\277\161\045\220\363\104
\203\151\120\244\344\341\033\142\031\224\011\243\363\303\274\357
\364\275\354\333\023\235\317\235\110\011\122\147\300\067\051\021
\036\373\322\021\247\205\030\164\171\344\117\205\024\353\122\067
\342\261\105\330\314\015\103\177\256\023\322\153\053\077\247\302
\342\250\155\166\133\103\237\276\264\235\263\046\206\073\037\177
\345\362\350\146\050\026\045\320\113\227\070\247\344\317\011\321
\066\303\013\276\332\073\104\130\215\276\361\236\011\153\076\363
\062\307\053\207\306\354\136\234\366\207\145\255\063\051\304\057
\211\331\271\313\311\003\235\373\154\224\121\227\020\033\206\013
\032\033\077\366\002\176\173\324\305\121\144\050\235\365\323\254
\203\201\210\323\164\264\131\235\301\353\141\063\132\105\321\313
\071\320\006\152\123\140\035\257\366\373\151\274\152\334\001\317
\275\371\217\331\275\133\301\072\137\216\332\017\113\251\233\235
\052\050\153\032\012\174\074\253\042\013\345\167\055\161\366\202
\065\201\256\370\173\201\346\352\376\254\364\032\233\164\134\350
\217\044\366\135\235\106\304\054\322\036\053\041\152\203\047\147
\125\112\244\343\310\062\227\146\220\162\332\343\324\144\056\137
\343\241\152\366\140\324\347\065\315\312\304\150\215\327\161\310
\323\044\063\163\261\154\371\152\341\050\333\137\306\075\350\276
\125\346\067\033\355\044\331\017\031\217\137\143\030\130\120\201
\121\145\157\362\237\176\152\004\347\064\044\161\272\166\113\130
\036\031\275\025\140\105\252\014\022\100\001\235\020\342\307\070
\007\162\012\145\300\266\273\045\051\332\026\236\213\065\213\141
\355\345\161\127\203\265\074\161\237\343\117\277\176\036\201\237
\101\227\002\003\001\000\001\243\201\206\060\201\203\060\016\006
\003\125\035\017\001\001\377\004\004\003\002\001\206\060\035\006
\003\125\035\041\004\026\060\024\060\022\006\007\140\205\164\001
\123\002\002\006\007\140\205\164\001\123\002\002\060\022\006\003
\125\035\023\001\001\377\004\010\060\006\001\001\377\002\001\003
\060\035\006\003\125\035\016\004\026\004\024\105\331\245\201\156
\075\210\115\215\161\322\106\301\156\105\036\363\304\200\235\060
\037\006\003\125\035\043\004\030\060\026\200\024\105\331\245\201
\156\075\210\115\215\161\322\106\301\156\105\036\363\304\200\235
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\003
\202\002\001\000\224\072\163\006\237\122\113\060\134\324\376\261
\134\045\371\327\216\157\365\207\144\237\355\024\216\270\004\216
\050\113\217\252\173\216\071\264\331\130\366\173\241\065\012\241
\235\212\367\143\345\353\275\071\202\324\343\172\055\157\337\023
\074\272\376\176\126\230\013\363\124\237\315\104\116\156\074\341
\076\025\277\006\046\235\344\360\220\266\324\302\236\060\056\037

\357\307\172\304\120\307\352\173\332\120\313\172\046\313\000\264
\132\253\265\223\037\200\211\204\004\225\215\215\177\011\223\277
\324\250\250\344\143\155\331\144\344\270\051\132\010\277\120\341
\204\017\125\173\137\010\042\033\365\275\231\036\024\366\316\364
\130\020\202\263\012\075\031\301\277\133\253\252\231\330\362\061
\275\345\070\146\334\130\005\307\355\143\032\056\012\227\174\207
\223\053\262\212\343\361\354\030\345\165\266\051\207\347\334\213
\032\176\264\330\311\323\212\027\154\175\051\104\276\212\252\365
\176\072\056\150\061\223\271\152\332\232\340\333\351\056\245\204
\315\034\012\270\112\010\371\234\361\141\046\230\223\267\173\146
\354\221\136\335\121\077\333\163\017\255\004\130\011\335\004\002
\225\012\076\323\166\337\246\020\036\200\075\350\315\244\144\321
\063\307\222\307\342\116\104\343\011\311\116\302\135\207\016\022
\236\277\017\311\005\020\336\172\243\261\074\362\077\245\252\047
\171\255\061\175\037\375\374\031\151\305\335\271\077\174\315\306
\264\302\060\036\176\156\222\327\177\141\166\132\217\353\225\115
\274\021\156\041\174\131\067\231\320\006\274\371\006\155\062\026
\245\331\151\250\341\334\074\200\036\140\121\334\327\124\041\036
\312\142\167\117\372\330\217\263\053\072\015\170\162\311\150\101
\132\107\112\302\243\353\032\327\012\253\074\062\125\310\012\021
\234\337\164\326\360\100\025\035\310\271\217\265\066\305\257\370
\042\270\312\035\363\326\266\031\017\237\141\145\152\352\164\310
\174\217\303\117\135\145\202\037\331\015\211\332\165\162\373\357
\361\107\147\023\263\310\321\031\210\047\046\232\231\171\177\036
\344\054\077\173\356\361\336\115\213\226\227\303\325\077\174\033
\043\355\244\263\035\026\162\103\113\040\341\131\176\302\350\255
\046\277\242\367
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Swisscom Root EV CA 2"
Issuer: CN=Swisscom Root EV CA 2,OU=Digital Certificate Services,O=Swisscom,C=ch
Serial Number:f2:fa:64:e2:74:63:d3:8d:fd:10:1d:04:1f:76:ca:58
Subject: CN=Swisscom Root EV CA 2,OU=Digital Certificate Services,O=Swisscom,C=ch
Not Valid Before: Fri Jun 24 09:45:08 2011
Not Valid After: Wed Jun 25 08:45:08 2031
Fingerprint (MD5): 7b:30:34:9f:dd:0a:4b:6b:35:ca:31:51:28:5d:ae:ec
Fingerprint (SHA1): e7:a1:90:29:d3:d5:52:dc:0d:0f:c6:92:d3:ea:88:0d:15:2e:1a:6b
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Swisscom Root EV CA 2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL

```
\347\241\220\051\323\325\122\334\015\017\306\222\323\352\210\015
\025\056\032\153
END
CKA_CERT_MD5_HASH
 MULTILINE_OCTAL
\173\060\064\237\335\012\113\153\065\312\061\121\050\135\256\354
END
CKA_ISSUER MULTILINE_OCTAL
\060\147\061\013\060\011\006\003\125\004\006\023\002\143\150\061
\021\060\017\006\003\125\004\012\023\010\123\167\151\163\163\143
\157\155\061\045\060\043\006\003\125\004\013\023\034\104\151\147
\151\164\141\154\040\103\145\162\164\151\146\151\143\141\164\145
\040\123\145\162\166\151\143\145\163\061\036\060\034\006\003\125
\004\003\023\025\123\167\151\163\163\143\157\155\040\122\157\157
\164\040\105\126\040\103\101\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\362\372\144\342\164\143\323\215\375\020\035\004\037
\166\312\130
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "CFCA GT CA"
# Issuer: O=CFCA
 GT CA,C=CN
# Serial Number:19:99:3c:3f
# Subject: O=CFCA GT CA,C=CN
# Not Valid Before: Mon Jun 13 08:15:09 2011
# Not Valid After: Tue Jun 09 08:15:09 2026
# Fingerprint (MD5): 2c:cd:f3:c5:59:a6:84:64:a0:67:50:ff:4b:4c:d6:14
# Fingerprint (SHA1): ea:bd:a2:40:44:0a:bb:d6:94:93:0a:01:d0:97:64:c6:c2:d7:79:66
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CFCA GT CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\042\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\023\060\021\006\003\125\004\012\023\012\103\106\103\101\040\107
\124\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
```

\060\042\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\023\060\021\006\003\125\004\012\023\012\103\106\103\101\040\107
\124\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\031\231\074\077
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\037\060\202\002\007\240\003\002\001\002\002\004\031
\231\074\077\060\015\006\011\052\206\110\206\367\015\001\001\005
\005\000\060\042\061\013\060\011\006\003\125\004\006\023\002\103
\116\061\023\060\021\006\003\125\004\012\023\012\103\106\103\101
\040\107\124\040\103\101\060\036\027\015\061\061\060\066\061\063
\060\070\061\065\060\071\132\027\015\062\066\060\066\060\071\060
\070\061\065\060\071\132\060\042\061\013\060\011\006\003\125\004
\006\023\002\103\116\061\023\060\021\006\003\125\004\012\023\012
\103\106\103\101\040\107\124\040\103\101\060\202\001\042\060\015
\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001
\017\000\060\202\001\012\002\202\001\001\000\277\163\306\132\053
\214\170\366\130\267\374\322\027\220\245\053\164\354\201\054\223
\315\122\314\156\344\052\313\044\241\061\344\255\060\156\343\230
\042\061\327\041\233\237\325\017\067\057\132\273\070\242\267\171
\046\147\326\015\305\027\052\234\271\124\004\341\015\165\206\156
\330\314\305\200\147\033\310\214\055\000\046\206\074\172\171\076
\266\251\302\116\040\260\067\227\306\205\166\022\202\012\347\124
\273\213\376\075\256\343\354\153\130\103\366\245\067\353\130\242
\275\220\304\345\373\312\153\312\060\154\267\173\211\366\061\322
\214\377\117\302\226\045\103\251\161\065\045\013\030\341\254\310
\243\044\266\161\223\214\361\135\374\234\020\005\173\377\300\133
\340\261\227\255\037\330\376\105\365\300\037\235\133\107\071\034
\006\372\333\146\205\333\044\043\352\173\322\071\040\370\353\052
\262\032\121\363\224\132\050\002\116\247\134\107\156\317\374\331
\350\346\141\132\026\047\307\025\015\230\331\350\323\003\065\220
\051\337\262\057\215\020\167\043\310\270\172\323\021\141\152\363
\377\201\222\245\354\102\113\150\116\200\327\002\003\001\000\001
\243\135\060\133\060\037\006\003\125\035\043\004\030\060\026\200
\024\214\166\120\316\045\323\171\053\074\364\155\235\232\341\236
\005\117\350\075\045\060\014\006\003\125\035\023\004\005\060\003
\001\001\377\060\013\006\003\125\035\017\004\004\003\002\001\306
\060\035\006\003\125\035\016\004\026\004\024\214\166\120\316\045
\323\171\053\074\364\155\235\232\341\236\005\117\350\075\045\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\003\202
\001\001\000\276\273\226\130\324\335\211\211\017\054\315\372\143
\105\166\015\071\200\232\215\372\250\105\141\075\041\125\350\316
\150\307\031\351\302\261\007\302\213\073\057\317\141\205\220\247
\122\027\062\072\257\012\005\025\310\306\316\335\216\224\046\006
\370\320\140\356\263\156\324\015\272\132\335\253\240\174\120\162
\246\325\220\223\126\327\131\071\333\350\177\263\225\170\123\201

\122\122\137\364\222\201\002\301\373\042\271\321\003\127\247\176
\313\373\300\106\274\023\164\114\050\053\166\222\151\037\301\120
\221\021\305\114\336\013\224\214\027\203\214\257\067\207\264\352
\153\157\242\132\065\101\141\205\057\234\027\300\373\271\016\242
\141\006\107\166\274\220\011\230\164\015\322\010\057\275\344\015
\162\361\246\137\303\174\300\175\352\274\323\253\040\221\313\134
\005\214\235\250\065\372\066\126\273\011\363\204\135\326\361\342
\054\236\331\176\361\202\240\341\267\057\176\355\371\173\240\000
\270\262\336\035\171\341\201\363\122\131\232\024\135\347\302\021
\363\232\303\072\170\043\276\116\146\336\244\071\151\362\230\072
\054\012\000
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "CFCA GT CA"
Issuer: O=CFCA GT CA,C=CN
Serial Number:19:99:3c:3f
Subject: O=CFCA GT CA,C=CN
Not Valid Before: Mon Jun 13 08:15:09 2011
Not Valid After: Tue Jun 09 08:15:09 2026
Fingerprint (MD5): 2c:cd:f3:c5:59:a6:84:64:a0:67:50:ff:4b:4c:d6:14
Fingerprint (SHA1): ea:bd:a2:40:44:0a:bb:d6:94:93:0a:01:d0:97:64:c6:c2:d7:79:66
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CFCA GT CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\352\275\242\100\104\012\273\326\224\223\012\001\320\227\144\306
\302\327\171\146
END
CKA_CERT_MD5_HASH
 MULTILINE_OCTAL
\054\315\363\305\131\246\204\144\240\147\120\377\113\114\326\024
END
CKA_ISSUER MULTILINE_OCTAL
\060\042\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\023\060\021\006\003\125\004\012\023\012\103\106\103\101\040\107
\124\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\031\231\074\077
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Digidentity L3 Root CA - G2"
Issuer: CN=Digidentity L3 Root CA - G2,O=Digidentity B.V.,C=NL
Serial Number: 1 (0x1)
Subject: CN=Digidentity L3 Root CA - G2,O=Digidentity B.V.,C=NL
Not Valid Before: Fri Apr 29 10:44:19 2011
Not Valid After: Mon Nov 10 10:44:19 2031
Fingerprint (MD5): 26:8f:5b:c8:b6:3f:88:8c:4c:49:08:2e:18:c1:02:10
#
 Fingerprint (SHA1): f1:38:a3:30:a4:ea:98:6b:eb:52:0b:b1:10:35:87:6e:fb:9d:7f:1c
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Digidentity L3 Root CA - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\031\060\027\006\003\125\004\012\023\020\104\151\147\151\144\145
\156\164\151\164\171\040\102\056\126\056\061\044\060\042\006\003
\125\004\003\023\033\104\151\147\151\144\145\156\164\151\164\171
\040\114\063\040\122\157\157\164\040\103\101\040\055\040\107\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\031\060\027\006\003\125\004\012\023\020\104\151\147\151\144\145
\156\164\151\164\171\040\102\056\126\056\061\044\060\042\006\003
\125\004\003\023\033\104\151\147\151\144\145\156\164\151\164\171
\040\114\063\040\122\157\157\164\040\103\101\040\055\040\107\062
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\241\060\202\003\211\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\116\061\013\060\011\006\003\125\004\006\023\002\116\114\061\031
\060\027\006\003\125\004\012\023\020\104\151\147\151\144\145\156
\164\151\164\171\040\102\056\126\056\061\044\060\042\006\003\125
\004\003\023\033\104\151\147\151\144\145\156\164\151\164\171\040
\114\063\040\122\157\157\164\040\103\101\040\055\040\107\062\060
\036\027\015\061\061\060\064\062\071\061\060\064\064\061\071\132

\027\015\063\061\061\061\061\060\061\060\064\064\061\071\132\060
\116\061\013\060\011\006\003\125\004\006\023\002\116\114\061\031
\060\027\006\003\125\004\012\023\020\104\151\147\151\144\145\156
\164\151\164\171\040\102\056\126\056\061\044\060\042\006\003\125
\004\003\023\033\104\151\147\151\144\145\156\164\151\164\171\040
\114\063\040\122\157\157\164\040\103\101\040\055\040\107\062\060
\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001
\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001\000
\270\021\243\105\336\001\107\126\015\142\270\216\272\130\146\134
\372\062\306\153\200\156\270\177\370\123\337\176\337\142\250\301
\127\117\232\105\045\310\112\105\055\123\070\044\263\040\254\117
\352\255\377\232\020\257\177\342\016\312\264\016\044\045\221\316
\166\216\020\251\057\231\123\247\220\113\004\213\155\172\271\101
\033\323\001\171\214\237\101\153\271\220\327\201\022\032\007\226
\320\011\257\351\344\152\041\123\200\270\206\236\142\150\103\255
\263\152\025\372\366\155\003\062\152\065\261\120\023\110\307\172
\265\041\023\234\004\234\332\223\371\152\053\301\247\030\375\366
\300\176\131\366\373\347\016\021\265\334\043\352\034\357\147\005
\127\316\027\351\361\173\261\321\062\044\214\317\145\347\324\274
\066\031\160\174\242\047\041\326\200\322\055\025\117\112\265\340
\125\220\225\121\223\041\200\363\234\104\037\377\035\125\125\344
\342\020\021\224\026\123\320\376\257\363\357\227\272\106\342\167
\133\313\326\242\131\021\210\246\347\125\101\303\222\145\035\043
\024\142\024\177\045\162\040\366\244\207\051\157\007\374\376\340
\320\030\322\227\371\024\216\066\306\350\014\030\227\361\166\034
\364\044\332\343\112\371\267\114\022\031\147\363\360\341\123\373
\135\344\300\164\143\137\045\221\012\331\076\364\063\254\344\013
\165\137\316\346\230\274\124\015\235\242\061\305\025\124\135\042
\034\213\072\124\246\015\321\327\043\072\254\076\252\112\027\144
\166\055\015\373\124\345\353\202\074\071\101\103\235\341\256\171
\140\317\146\356\307\161\203\173\014\153\011\333\236\242\115\116
\106\223\150\267\372\147\341\332\277\337\221\200\332\243\242\211
\255\136\154\314\113\167\165\144\157\215\044\343\210\210\013\343
\077\351\277\247\345\126\142\015\203\177\275\152\141\310\220\211
\170\133\014\257\022\052\342\223\255\144\347\331\105\056\366\260
\310\253\105\356\160\070\157\273\065\076\026\376\253\236\303\146
\057\363\276\011\140\325\157\200\275\115\333\257\215\376\014\140
\063\153\017\350\235\153\304\060\167\237\054\120\070\320\230\151
\354\067\350\236\017\344\142\352\372\377\021\104\124\331\357\315
\223\165\221\114\341\211\145\246\224\271\123\371\371\111\143\305
\002\003\001\000\001\243\201\211\060\201\206\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006\003
\125\035\017\001\001\377\004\004\003\002\001\006\060\035\006\003
\125\035\016\004\026\004\024\053\043\040\140\275\055\212\210\107
\254\255\053\276\002\071\272\230\324\354\230\060\104\006\003\125
\035\040\004\075\060\073\060\071\006\004\125\035\040\000\060\061
\060\057\006\010\053\006\001\005\005\007\002\001\026\043\150\164
\164\160\072\057\057\160\153\151\056\144\151\147\151\144\145\156

\164\151\164\171\056\145\165\057\166\141\154\151\144\141\164\151
\145\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000
\003\202\002\001\000\251\375\357\272\217\033\176\062\022\147\035
\101\015\055\246\213\317\362\364\255\126\170\176\012\230\330\233
\250\321\264\113\054\046\254\344\322\177\147\067\275\011\215\345
\271\163\021\072\156\011\307\127\144\007\041\064\370\016\135\052
\330\221\174\361\124\121\274\234\360\014\152\102\364\074\001\116
\223\105\101\075\254\363\230\113\036\161\036\063\131\062\377\174
\060\360\134\344\341\276\055\056\265\352\335\142\041\016\075\264
\015\225\374\311\270\331\272\240\367\142\247\355\303\003\256\010
\054\101\325\357\103\161\070\267\024\162\256\077\364\024\164\107
\330\336\214\121\171\316\357\261\124\254\160\107\226\176\055\056
\335\233\356\241\001\056\031\357\276\130\140\161\055\255\227\133
\132\140\060\313\062\202\142\116\126\345\147\152\264\322\061\124
\162\077\002\320\274\060\071\217\267\103\011\052\037\046\073\014
\307\174\035\233\200\140\204\016\351\056\322\371\025\273\133\340
\212\244\000\351\343\051\373\050\133\275\066\105\140\041\103\061
\377\160\241\137\134\203\133\227\174\015\267\123\131\354\230\265
\116\342\051\261\324\174\106\343\350\343\103\352\072\226\065\037
\123\361\004\026\045\343\054\363\150\241\246\221\337\025\373\275
\237\346\116\236\302\124\153\176\042\127\343\244\234\134\042\045
\037\201\257\231\310\337\021\025\110\103\370\263\063\251\043\177
\016\063\217\274\106\035\103\264\073\140\365\227\205\031\242\026
\260\125\334\032\160\051\145\332\331\176\011\027\064\353\211\272
\351\141\222\330\336\064\143\074\112\125\152\277\332\206\355\316
\063\336\273\123\157\317\034\332\224\117\166\124\254\145\125\020
\123\232\310\270\153\334\006\346\272\345\121\325\101\177\037\304
\300\101\241\140\221\064\363\023\202\321\241\167\323\367\114\344
\031\377\327\104\232\260\265\274\334\312\136\217\334\316\361\240
\151\066\340\104\222\056\231\372\274\257\263\307\170\072\125\146
\307\153\245\344\151\046\351\064\035\037\052\227\012\351\167\251
\167\133\163\110\062\201\277\377\321\354\203\305\160\203\151\236
\230\033\303\127\337\221\225\034\200\374\215\350\226\203\005\323
\237\172\210\173\372\350\127\361\301\204\050\275\315\326\034\314
\245\342\111\012\163
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Digidentity L3 Root CA - G2"
Issuer: CN=Digidentity L3 Root CA - G2,O=Digidentity B.V.,C=NL
Serial Number: 1 (0x1)
Subject: CN=Digidentity L3 Root CA - G2,O=Digidentity B.V.,C=NL
Not Valid Before: Fri Apr 29 10:44:19 2011
Not Valid After: Mon Nov 10 10:44:19 2031

```
# Fingerprint (MD5): 26:8f:5b:c8:b6:3f:88:8c:4c:49:08:2e:18:c1:02:10
# Fingerprint (SHA1): f1:38:a3:30:a4:ea:98:6b:eb:52:0b:b1:10:35:87:6e:fb:9d:7f:1c
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Digidentity L3 Root CA - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\361\070\243\060\244\352\230\153\353\122\013\261\020\065\207\156
\373\235\177\034
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\046\217\133\310\266\077\210\214\114\111\010\056\030\301\002\020
END
CKA_ISSUER
 MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\031\060\027\006\003\125\004\012\023\020\104\151\147\151\144\145
\156\164\151\164\171\040\102\056\126\056\061\044\060\042\006\003
\125\004\003\023\033\104\151\147\151\144\145\156\164\151\164\171
\040\114\063\040\122\157\157\164\040\103\101\040\055\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "SITHS Root CA v1"
# Issuer: CN=SITHS Root CA v1,O=Inera AB,C=SE
# Serial Number:90:66:61:a8:62:3d:65:44:77:04:3f:71:9a:c3:97:0c
# Subject: CN=SITHS Root CA v1,O=Inera AB,C=SE
# Not Valid Before: Thu Mar 29 07:54:49 2012
# Not Valid After: Mon Mar 29 07:54:49 2032
# Fingerprint
 (MD5): 7f:7b:02:6c:68:9f:32:03:c7:af:04:9d:ec:23:df:f3
# Fingerprint (SHA1): 58:5f:78:75:be:e7:43:3e:b0:79:ea:ab:7d:05:bb:0f:7a:f2:bc:cc
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SITHS Root CA v1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\073\061\013\060\011\006\003\125\004\006\023\002\123\105\061
```

\021\060\017\006\003\125\004\012\014\010\111\156\145\162\141\040
\101\102\061\031\060\027\006\003\125\004\003\014\020\123\111\124
\110\123\040\122\157\157\164\040\103\101\040\166\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\073\061\013\060\011\006\003\125\004\006\023\002\123\105\061
\021\060\017\006\003\125\004\012\014\010\111\156\145\162\141\040
\101\102\061\031\060\027\006\003\125\004\003\014\020\123\111\124
\110\123\040\122\157\157\164\040\103\101\040\166\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\220\146\141\250\142\075\145\104\167\004\077\161\232
\303\227\014
END
CKA_VALUE
 MULTILINE_OCTAL
\060\202\005\223\060\202\003\173\240\003\002\001\002\002\021\000
\220\146\141\250\142\075\145\104\167\004\077\161\232\303\227\014
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\073\061\013\060\011\006\003\125\004\006\023\002\123\105\061\021
\060\017\006\003\125\004\012\014\010\111\156\145\162\141\040\101
\102\061\031\060\027\006\003\125\004\003\014\020\123\111\124\110
\123\040\122\157\157\164\040\103\101\040\166\061\060\036\027\015
\061\062\060\063\062\071\060\067\065\064\064\071\132\027\015\063
\062\060\063\062\071\060\067\065\064\064\071\132\060\073\061\013
\060\011\006\003\125\004\006\023\002\123\105\061\021\060\017\006
\003\125\004\012\014\010\111\156\145\162\141\040\101\102\061\031
\060\027\006\003\125\004\003\014\020\123\111\124\110\123\040\122
\157\157\164\040\103\101\040\166\061\060\202\002\042\060\015\006
\011\052\206\110\206\367\015\001\001\001\005\000\003\202\002\017
\000\060\202\002\012\002\202\002\001\000\300\355\346\236\250\254
\250\377\330\065\271\374\373\360\225\117\077\075\107\043\321\222
\311\311\370\360\342\037\206\255\210\077\340\000\317\117\021\225
\141\075\245\326\040\031\321\210\322\302\126\011\105\040\241\052
\352\042\303\352\272\314\102\151\236\270\205\237\160\300\154\247
\276\157\243\134\335\103\210\007\315\312\051\337\151\172\037\055
\237\126\152\033\142\040\041\141\306\120\113\145\165\111\106\277
\134\327\051\036\302\036\205\102\341\016\070\115\303\066\161\102
\104\121\072\321\130\314\311\264\252\154\100\307\203\361\307\011
\237\112\363\153\363\007\026\065\364\202\216\136\213\204\334\161
\171\271\373\156\127\105\267\305\160\072\377\102\002\321\064\277
\205\160\155\117\217\347\037\031\041\367\325\064\274\356\131\346
\056\042\363\161\202\142\031\237\005\144\174\073\042\161\030\245
\055\301\170\130\231\321\257\336\224\100\006\031\166\023\120\207
\043\313\107\127\256\154\305\023\352\232\205\122\303\312\127\046
\037\336\026\155\255\161\176\362\330\141\375\346\066\116\161\032
\235\323\040\065\255\022\041\130\165\066\213\211\026\244\067\050

\317\240\203\072\100\243\312\021\357\264\345\220\033\343\145\222
\147\230\157\016\051\345\147\030\327\210\372\215\266\307\172\245
\240\177\221\036\253\266\371\164\230\166\122\140\057\132\067\231
\250\333\321\076\326\204\152\157\122\323\264\332\032\307\270\262
\321\224\021\037\305\210\211\351\133\251\243\224\346\242\175\115
\247\062\211\241\336\046\153\315\325\243\362\062\033\332\065\023
\211\021\111\115\277\106\061\273\351\055\023\370\016\000\245\376
\003\365\126\106\074\217\023\053\340\345\307\036\003\337\212\352
\106\205\105\206\331\355\136\013\270\144\223\364\320\130\056\051
\215\105\127\115\211\165\220\145\314\152\073\301\234\200\271\264
\200\065\003\216\337\156\052\223\276\246\276\012\001\104\157\100
\163\252\052\202\034\204\166\177\151\335\261\273\222\130\350\100
\121\162\134\367\076\071\104\372\245\231\240\177\215\213\260\101
\130\167\255\042\305\240\300\272\375\061\231\065\152\331\311\040
\032\136\363\275\274\010\177\335\111\055\057\235\221\020\015\133
\250\077\317\264\127\163\073\133\340\147\002\003\001\000\001\243
\201\221\060\201\216\060\017\006\003\125\035\023\001\001\377\004
\005\060\003\001\001\377\060\114\006\003\125\035\040\004\105\060
\103\060\101\006\011\052\205\160\112\010\001\002\001\001\060\064
\060\062\006\010\053\006\001\005\005\007\002\001\026\046\150\164
\164\160\072\057\057\143\160\163\056\163\151\164\150\163\056\163
\145\057\163\151\164\150\163\162\157\157\164\143\141\166\061\056
\150\164\155\154\060\016\006\003\125\035\017\001\001\377\004\004
\003\002\001\006\060\035\006\003\125\035\016\004\026\004\024\062
\371\235\117\151\351\230\215\240\326\214\175\371\035\316\243\074
\272\166\025\060\015\006\011\052\206\110\206\367\015\001\001\005
\005\000\003\202\002\001\000\037\077\343\170\130\310\012\312\064
\042\011\330\262\005\213\321\145\234\341\327\327\175\012\300\034
\230\245\044\122\070\063\332\144\042\043\200\256\376\075\200\276
\117\217\335\203\366\015\114\063\132\325\243\073\120\212\122\132
\046\024\163\121\224\344\122\227\143\333\267\006\250\357\217\255
\342\355\336\243\277\040\321\106\333\055\170\350\054\047\104\234
\074\354\267\027\374\211\227\363\243\242\136\302\131\123\340\317
\344\265\001\073\143\123\050\323\257\146\113\064\071\257\141\016
\076\233\356\263\211\326\223\240\073\001\304\263\043\124\020\074
\115\327\252\260\332\331\154\312\060\104\055\335\262\050\142\212
\101\140\362\100\023\154\260\174\076\101\340\213\246\064\361\347
\256\121\207\003\216\231\177\331\150\242\366\234\015\171\202\262
\237\337\044\310\146\140\350\266\110\104\047\310\153\126\267\104
\205\316\002\267\323\212\161\134\127\121\127\041\214\352\302\121
\017\120\077\200\253\004\115\311\122\335\344\245\362\056\037\155
\165\272\207\035\220\013\356\030\204\200\163\273\213\225\204\212
\141\015\116\135\142\237\343\146\014\373\066\016\047\323\110\370
\006\210\006\245\137\356\176\134\335\255\012\035\075\034\252\100
\171\230\171\270\120\214\066\215\013\012\066\013\325\076\347\135
\201\335\154\334\155\261\157\015\164\236\054\057\302\005\362\104
\021\262\063\372\201\305\112\155\076\105\326\054\342\153\137\056
\344\103\225\121\033\231\061\005\337\045\033\163\321\173\234\304

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\163\111\373\142\140\331\151\143\335\321\076\145\155\107\372\144
\114\003\130\120\331\246\276\345\052\150\353\077\213\020\361\346
\273\042\006\050\232\240\244\230\151\157\066\264\324\015\016\014
\175\300\051\061\273\054\003\047\341\147\247\275\321\213\056\266
\207\304\012\340\011\013\202\241\346\117\130\235\373\330\370\141
\341\312\227\304\270\267\120\071\314\061\116\375\055\034\032\366
\107\343\154\354\033\005\350\177\027\065\020\204\332\063\347\064
\346\265\244\353\304\042\007\112\366\233\130\330\017\234\100\373
\261\213\137\242\375\231\352\242\173\131\142\321\136\256\321\112
\162\030\053\113\066\071\162\007\232\132\360\143\072\317\033\371
\317\335\110\163\131\160\344
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER
 CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Trust for "SITHS Root CA v1"
# Issuer: CN=SITHS Root CA v1,O=Inera AB,C=SE
# Serial Number:90:66:61:a8:62:3d:65:44:77:04:3f:71:9a:c3:97:0c
# Subject: CN=SITHS Root CA v1,O=Inera AB,C=SE
# Not Valid Before: Thu Mar 29 07:54:49 2012
# Not Valid After: Mon Mar 29 07:54:49 2032
# Fingerprint (MD5): 7f:7b:02:6c:68:9f:32:03:c7:af:04:9d:ec:23:df:f3
# Fingerprint (SHA1): 58:5f:78:75:be:e7:43:3e:b0:79:ea:ab:7d:05:bb:0f:7a:f2:bc:cc
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SITHS Root CA v1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\130\137\170\165\276\347\103\076\260\171\352\253\175\005\273\017
\172\362\274\314
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\177\173\002\154\150\237\062\003\307\257\004\235\354\043\337\363
END
CKA_ISSUER MULTILINE_OCTAL
\060\073\061\013\060\011\006\003\125\004\006\023\002\123\105\061
\021\060\017\006\003\125\004\012\014\010\111\156\145\162\141\040
\101\102\061\031\060\027\006\003\125\004\003\014\020\123\111\124
\110\123\040\122\157\157\164\040\103\101\040\166\061
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\021\000\220\146\141\250\142\075\145\104\167\004\077\161\232
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\303\227\014
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Macao Post eSignTrust Root Certification Authority (G02)"
# Issuer: CN=Macao Post eSignTrust Root Certification Authority (G02),O=Macao Post,C=MO
# Serial Number:52:ac:be:07:11:49:97:bb:1f:bf:87:1b:25:17:bf:a4
# Subject: CN=Macao Post eSignTrust Root Certification Authority (G02),O=Macao Post,C=MO
# Not Valid Before: Wed Jan 06 00:00:00 2010
# Not Valid After: Sun Jan 05 23:59:59 2020
# Fingerprint (MD5): a1:2d:ed:eb:8a:3b:88:2f:fa:38:f3:86:a4:fb:bc:f2
#
 Fingerprint (SHA1): 06:14:31:51:e0:2b:45:dd:ba:dd:5d:8e:56:53:0d:aa:e3:28:cf:90
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Macao Post eSignTrust Root Certification Authority (G02)"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\115\117\061
\023\060\021\006\003\125\004\012\023\012\115\141\143\141\157\040
\120\157\163\164\061\101\060\077\006\003\125\004\003\023\070\115
\141\143\141\157\040\120\157\163\164\040\145\123\151\147\156\124
\162\165\163\164\040\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171\040\050\107\060\062\051
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\115\117\061
\023\060\021\006\003\125\004\012\023\012\115\141\143\141\157\040
\120\157\163\164\061\101\060\077\006\003\125\004\003\023\070\115
\141\143\141\157\040\120\157\163\164\040\145\123\151\147\156\124
\162\165\163\164\040\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171\040\050\107\060\062\051
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\122\254\276\007\021\111\227\273\037\277\207\033\045\027
\277\244
END
CKA_VALUE MULTILINE_OCTAL
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\060\202\005\226\060\202\003\176\240\003\002\001\002\002\020\122
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\375\250\274\017\171\322\263\346\323\146
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

```
# Microsoft Code Signing Only Certificate
# Trust for "Macao Post eSignTrust Root Certification Authority (G02)"
# Issuer: CN=Macao Post eSignTrust Root Certification Authority (G02),O=Macao Post,C=MO
# Serial Number:52:ac:be:07:11:49:97:bb:1f:bf:87:1b:25:17:bf:a4
# Subject: CN=Macao Post eSignTrust Root Certification Authority (G02),O=Macao Post,C=MO
# Not Valid Before: Wed Jan 06 00:00:00 2010
# Not Valid After: Sun Jan 05 23:59:59 2020
# Fingerprint (MD5): a1:2d:ed:eb:8a:3b:88:2f:fa:38:f3:86:a4:fb:bc:f2
# Fingerprint (SHA1): 06:14:31:51:e0:2b:45:dd:ba:dd:5d:8e:56:53:0d:aa:e3:28:cf:90
CKA_CLASS CK_OBJECT_CLASS
 CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Macao Post eSignTrust Root Certification Authority (G02)"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\006\024\061\121\340\053\105\335\272\335\135\216\126\123\015\252
\343\050\317\220
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\241\055\355\353\212\073\210\057\372\070\363\206\244\373\274\362
END
CKA_ISSUER MULTILINE_OCTAL
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\023\060\021\006\003\125\004\012\023\012\115\141\143\141\157\040
\120\157\163\164\061\101\060\077\006\003\125\004\003\023\070\115
\141\143\141\157\040\120\157\163\164\040\145\123\151\147\156\124
\162\165\163\164\040\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171\040\050\107\060\062\051
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\122\254\276\007\021\111\227\273\037\277\207\033\045\027
\277\244
END
CKA_TRUST_SERVER_AUTH CK_TRUST
 CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Autoridade Certificadora Raiz Brasileira v2"
# Issuer: CN=Autoridade Certificadora Raiz Brasileira v2,OU=Instituto Nacional de Tecnologia da Informacao -
ITI,O=ICP-Brasil,C=BR
# Serial Number: 1 (0x1)
# Subject: CN=Autoridade Certificadora Raiz Brasileira v2,OU=Instituto Nacional de Tecnologia da Informacao -
ITI,O=ICP-Brasil,C=BR
```

```
# Not Valid Before: Mon Jun 21 19:04:57 2010
# Not Valid After: Wed Jun 21 19:04:57 2023
# Fingerprint (MD5): 00:11:ae:73:15:fb:2d:6d:88:d8:43:bd:b4:b6:4c:5f
# Fingerprint (SHA1): a9:82:2e:6c:69:33:c6:3c:14:8c:2d:ca:a4:4a:5c:f1:aa:d2:c4:2e
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridade Certificadora Raiz
 Brasileira v2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\227\061\013\060\011\006\003\125\004\006\023\002\102\122
\061\023\060\021\006\003\125\004\012\023\012\111\103\120\055\102
\162\141\163\151\154\061\075\060\073\006\003\125\004\013\023\064
\111\156\163\164\151\164\165\164\157\040\116\141\143\151\157\156
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\040\144\141\040\111\156\146\157\162\155\141\143\141\157\040\055
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END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
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\061\023\060\021\006\003\125\004\012\023\012\111\103\120\055\102
\162\141\163\151\154\061\075\060\073\006\003\125\004\013\023\064
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\040\111\124\111\061\064\060\062\006\003\125\004\003\023\053\101
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END
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\133\147\307\352\324\373\321\302\135\352\016\227\163\230\256\051
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\011\356\363\246\203\063\133\157\107\171\117\110\265\374\270\046
\023\253\252\263\364\141\021\373\105\147\363\035\076\156\376\052
\113\046\104\032\237\261\242\340\074\332\340\344\005\072\170\254
\373\250\241\115\277\135\054\167\051\220\315\023\035\357\006\050
\330\267\024\363\133\310\311\236\247\176\061\022\212\170\142\304
\321\005\274\006\002\143\004\053\015\211\335\344\134\133\062\200
\104\324\102\354\052\363\362\100\207\061\325\076\342\012\062\014
\024\215\325\162\155\013\346\375\215\344\250\363\005\215\165\027
\167\233\012\271\372\220\222\231\145\210\062\147\103\005\216\055
\013\025\273\065\361\141\350\331\147\167\355\026\345\350\001\055
\153\064\077\216\203\263\367\352\017\112\036\076\065\204\235\214
\200\064\077\251\225\350\303\255\304\315\236\312\024\026\054\031
\236\344\066\213\271\271\243\102\045\007\076\303\345\325\150\117
\240\146\034\246\263\266\163\034\220\032\077\100\271\032\126\102
\160\207\377\157\055\017\021\375\036\377\367\205\060\025\016\343

\027\061\356\047\225\314\311\351\231\036\227\307\155\133\007\265
\005\152\075\362\105\337\272\202\171\044\160\056\233\202\037\146
\251\245\155\047\314\366\052\242\321\137\205\157\340\106\235\252
\322\245\116\125\016
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Autoridade Certificadora Raiz Brasileira v2"
Issuer: CN=Autoridade Certificadora Raiz Brasileira v2,OU=Instituto Nacional de Tecnologia da Informacao - ITI,O=ICP-Brasil,C=BR
Serial Number: 1 (0x1)
Subject: CN=Autoridade Certificadora Raiz Brasileira v2,OU=Instituto Nacional de Tecnologia da Informacao - ITI,O=ICP-Brasil,C=BR
Not Valid Before: Mon Jun 21 19:04:57 2010
Not Valid After: Wed Jun 21 19:04:57
2023
Fingerprint (MD5): 00:11:ae:73:15:fb:2d:6d:88:d8:43:bd:b4:b6:4c:5f
Fingerprint (SHA1): a9:82:2e:6c:69:33:c6:3c:14:8c:2d:ca:a4:4a:5c:f1:aa:d2:c4:2e
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridade Certificadora Raiz Brasileira v2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\251\202\056\154\151\063\306\074\024\214\055\312\244\112\134\361
\252\322\304\056
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\000\021\256\163\025\373\055\155\210\330\103\275\264\266\114\137
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\227\061\013\060\011\006\003\125\004\006\023\002\102\122
\061\023\060\021\006\003\125\004\012\023\012\111\103\120\055\102
\162\141\163\151\154\061\075\060\073\006\003\125\004\013\023\064
\111\156\163\164\151\164\165\164\157\040\116\141\143\151\157\156
\141\154\040\144\145\040\124\145\143\156\157\154\157\147\151\141
\040\144\141\040\111\156\146\157\162\155\141\143\141\157\040\055
\040\111\124\111\061\064\060\062\006\003\125\004\003\023\053\101
\165\164\157\162\151\144\141\144\145\040\103\145\162\164\151\146
\151\143\141\144\157\162\141\040\122\141\151\172\040\102\162\141
\163\151\154\145\151\162\141\040\166\062
END
CKA_SERIAL_NUMBER

```
 MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Swisscom Root CA 2"
# Issuer: CN=Swisscom Root CA 2,OU=Digital Certificate Services,O=Swisscom,C=ch
# Serial Number:1e:9e:28:e8:48:f2:e5:ef:c3:7c:4a:1e:5a:18:67:b6
# Subject: CN=Swisscom Root CA 2,OU=Digital Certificate Services,O=Swisscom,C=ch
# Not Valid Before: Fri Jun 24 08:38:14 2011
# Not Valid After: Wed Jun 25 07:38:14 2031
# Fingerprint (MD5): 5b:04:69:ec:a5:83:94:63:18:a7:86:d0:e4:f2:6e:19
# Fingerprint (SHA1): 77:47:4f:c6:30:e4:0f:4c:47:64:3f:84:ba:b8:c6:95:4a:8a:41:ec
CKA_CLASS
 CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Swisscom Root CA 2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\144\061\013\060\011\006\003\125\004\006\023\002\143\150\061
\021\060\017\006\003\125\004\012\023\010\123\167\151\163\163\143
\157\155\061\045\060\043\006\003\125\004\013\023\034\104\151\147
\151\164\141\154\040\103\145\162\164\151\146\151\143\141\164\145
\040\123\145\162\166\151\143\145\163\061\033\060\031\006\003\125
\004\003\023\022\123\167\151\163\163\143\157\155\040\122\157\157
\164\040\103\101\040\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\144\061\013\060\011\006\003\125\004\006\023\002\143\150\061
\021\060\017\006\003\125\004\012\023\010\123\167\151\163\163\143
\157\155\061\045\060\043\006\003\125\004\013\023\034\104\151\147
\151\164\141\154\040\103\145\162\164\151\146\151\143\141\164\145
\040\123\145\162\166\151\143\145\163\061\033\060\031\006\003\125
\004\003\023\022\123\167\151\163\163\143\157\155\040\122\157\157
\164\040\103\101\040\062
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\036\236\050\350\110\362\345\357\303\174\112\036\132\030
\147\266
END
```

CKA_VALUE MULTILINE_OCTAL

\060\202\005\331\060\202\003\301\240\003\002\001\002\002\020\036
\236\050\350\110\362\345\357\303\174\112\036\132\030\147\266\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\144
\061\013\060\011\006\003\125\004\006\023\002\143\150\061\021\060
\017\006\003\125\004\012\023\010\123\167\151\163\163\143\157\155
\061\045\060\043\006\003\125\004\013\023\034\104\151\147\151\164
\141\154\040\103\145\162\164\151\146\151\143\141\164\145\040\123
\145\162\166\151\143\145\163\061\033\060\031\006\003\125\004\003
\023\022\123\167\151\163\163\143\157\155\040\122\157\157\164\040
\103\101\040\062\060\036\027\015\061\061\060\066\062\064\060\070
\063\070\061\064\132\027\015\063\061\060\066\062\065\060\067\063
\070\061\064\132\060\144\061\013\060\011\006\003\125\004\006\023
\002\143\150\061\021\060\017\006\003\125\004\012\023\010\123\167
\151\163\163\143\157\155\061\045\060\043\006\003\125\004\013\023
\034\104\151\147\151\164\141\154\040\103\145\162\164\151\146\151
\143\141\164\145\040\123\145\162\166\151\143\145\163\061\033\060
\031\006\003\125\004\003\023\022\123\167\151\163\163\143\157\155
\040\122\157\157\164\040\103\101\040\062\060\202\002\042\060\015
\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\002
\017\000\060\202\002\012\002\202\002\001\000\225\102\116\204\235
\121\346\323\011\350\162\132\043\151\333\170\160\216\026\361\053
\217\015\003\316\223\314\056\000\010\173\253\063\214\364\351\100
\346\027\114\253\236\270\107\024\062\167\062\335\050\014\336\030
\113\137\166\237\370\071\073\374\116\211\330\174\305\147\357\253
\322\271\064\137\153\072\363\144\066\316\302\260\317\023\150\312
\310\313\353\265\342\075\056\041\337\352\054\324\340\371\160\226
\114\377\152\130\230\267\027\344\033\122\345\176\007\000\035\137
\332\346\076\225\004\267\151\210\071\241\101\140\045\141\113\225
\071\150\142\034\261\013\005\211\300\066\202\024\041\077\256\333
\241\375\274\157\034\140\206\266\123\224\111\271\053\106\305\117
\000\053\277\241\273\313\077\340\307\127\034\127\350\326\151\370
\301\044\122\235\210\125\335\302\207\056\164\043\320\024\375\052
\107\132\273\246\235\375\224\344\321\212\245\137\206\143\166\205
\313\257\377\111\050\374\200\355\114\171\322\273\344\300\357\001
\356\120\101\010\065\043\160\053\251\026\264\214\156\205\351\266
\021\317\061\335\123\046\033\337\055\132\112\002\100\374\304\300
\266\351\061\032\010\050\345\140\303\037\304\220\216\020\142\140
\104\015\354\012\276\125\030\161\054\245\364\262\274\025\142\377
\034\343\276\035\332\036\127\263\074\176\315\202\035\221\343\113
\353\054\122\064\260\212\375\022\116\226\260\353\160\177\236\071
\367\146\102\261\253\254\122\332\166\100\127\173\052\275\350\156
\003\262\013\200\205\210\235\014\307\302\167\260\232\232\127\364
\270\372\023\134\150\223\072\147\244\227\320\033\231\267\206\062
\113\140\330\316\357\320\014\177\225\237\157\207\117\207\212\216
\137\010\174\252\133\374\132\276\241\221\237\125\175\116\260\013
\151\314\260\224\250\247\207\362\323\112\120\334\137\162\260\026
\165\036\313\264\030\142\232\260\247\071\252\233\237\146\330\215

\246\154\226\025\343\346\362\370\361\203\142\154\273\125\351\141
\223\243\075\365\261\127\213\117\043\260\233\345\224\152\057\337
\214\337\225\121\051\140\241\013\051\344\134\125\130\267\250\374
\231\356\045\115\114\016\263\323\114\217\204\350\051\017\375\020
\124\002\205\310\371\345\303\213\317\347\017\002\003\001\000\001
\243\201\206\060\201\203\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\206\060\035\006\003\125\035\041\004\026\060
\024\060\022\006\007\140\205\164\001\123\002\001\006\007\140\205
\164\001\123\002\001\060\022\006\003\125\035\023\001\001\377\004
\010\060\006\001\001\377\002\001\007\060\035\006\003\125\035\016
\004\026\004\024\115\046\040\042\211\113\323\325\244\012\241\157
\336\342\022\201\305\361\074\056\060\037\006\003\125\035\043\004
\030\060\026\200\024\115\046\040\042\211\113\323\325\244\012\241
\157\336\342\022\201\305\361\074\056\060\015\006\011\052\206\110
\206\367\015\001\001\013\005\000\003\202\002\001\000\062\012\262
\244\033\313\175\276\202\127\211\271\152\177\363\364\301\056\021
\175\270\031\076\171\267\250\250\162\067\146\233\032\355\254\023
\073\016\277\142\360\234\337\236\173\241\123\110\016\101\172\312
\040\247\027\033\266\170\354\100\221\363\102\255\020\303\134\357
\377\140\131\177\315\205\243\213\075\110\034\045\002\074\147\175
\365\062\351\057\060\345\175\245\172\070\320\363\146\052\146\036
\215\063\203\212\157\174\156\250\132\165\232\270\327\332\130\110
\104\107\250\114\372\114\111\012\112\302\022\067\250\100\014\303
\310\341\320\127\015\227\062\225\307\072\237\227\323\127\370\013
\336\345\162\363\243\333\377\265\330\131\262\163\335\115\052\161
\262\272\111\365\313\034\325\365\171\310\231\263\374\301\114\164
\343\264\275\051\067\025\004\050\036\336\105\106\160\354\257\272
\170\016\212\052\316\000\171\334\300\137\031\147\054\153\113\357
\150\150\013\103\343\254\301\142\011\357\246\335\145\141\240\257
\204\125\110\221\122\034\306\045\221\052\320\301\042\043\141\131
\257\105\021\205\035\001\044\064\217\317\263\377\027\162\040\023
\302\200\252\041\054\161\071\016\320\217\134\301\323\321\216\042
\162\106\114\035\226\256\117\161\261\341\005\051\226\131\364\273
\236\165\075\317\015\067\015\142\333\046\214\143\251\043\337\147
\006\074\174\072\332\064\102\341\146\264\106\004\336\306\226\230
\017\113\110\172\044\062\165\221\237\254\367\150\351\052\271\125
\145\316\135\141\323\047\160\330\067\376\237\271\257\240\056\126
\267\243\145\121\355\073\253\024\277\114\121\003\350\137\212\005
\233\356\212\156\234\357\277\150\372\310\332\013\343\102\311\320
\027\024\234\267\112\340\257\223\047\041\125\046\265\144\057\215
\361\377\246\100\005\205\005\134\312\007\031\134\013\023\050\114
\130\177\302\245\357\105\332\140\323\256\145\141\235\123\203\164
\302\256\362\134\302\026\355\222\076\204\076\163\140\210\274\166
\364\054\317\320\175\175\323\270\136\321\221\022\020\351\315\335
\312\045\343\325\355\231\057\276\165\201\113\044\371\105\106\224
\311\051\041\123\234\046\105\252\023\027\344\347\315\170\342\071
\301\053\022\236\246\236\033\305\346\016\331\061\331
END

```
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Trust for "Swisscom Root CA 2"
# Issuer: CN=Swisscom Root CA 2,OU=Digital Certificate Services,O=Swisscom,C=ch
# Serial Number:1e:9e:28:e8:48:f2:e5:ef:c3:7c:4a:1e:5a:18:67:b6
# Subject: CN=Swisscom Root CA 2,OU=Digital Certificate Services,O=Swisscom,C=ch
# Not Valid Before: Fri Jun 24 08:38:14 2011
# Not Valid After: Wed Jun 25 07:38:14 2031
# Fingerprint (MD5): 5b:04:69:ec:a5:83:94:63:18:a7:86:d0:e4:f2:6e:19
#
 Fingerprint (SHA1): 77:47:4f:c6:30:e4:0f:4c:47:64:3f:84:ba:b8:c6:95:4a:8a:41:ec
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Swisscom Root CA 2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\167\107\117\306\060\344\017\114\107\144\077\204\272\270\306\225
\112\212\101\354
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\133\004\151\354\245\203\224\143\030\247\206\320\344\362\156\031
END
CKA_ISSUER MULTILINE_OCTAL
\060\144\061\013\060\011\006\003\125\004\006\023\002\143\150\061
\021\060\017\006\003\125\004\012\023\010\123\167\151\163\163\143
\157\155\061\045\060\043\006\003\125\004\013\023\034\104\151\147
\151\164\141\154\040\103\145\162\164\151\146\151\143\141\164\145
\040\123\145\162\166\151\143\145\163\061\033\060\031\006\003\125
\004\003\023\022\123\167\151\163\163\143\157\155\040\122\157\157
\164\040\103\101\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\036\236\050\350\110\362\345\357\303\174\112\036\132\030
\147\266
END
CKA_TRUST_SERVER_AUTH
 CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "IGC/A AC racine Etat francais"
```

```
# Issuer: CN=IGC/A AC racine Etat francais,OU=0002 130007669,O=ANSSI,C=FR
# Serial Number:11:21:85:0c:b3:9c:6a:32:fa:be:67:1b:81:3f:a4:86:15:8f
# Subject: CN=IGC/A AC racine Etat francais,OU=0002 130007669,O=ANSSI,C=FR
# Not Valid Before: Fri Jul 08 09:00:00 2011
# Not Valid After: Sat Apr 15 09:00:00 2028
# Fingerprint (MD5): f4:f5:81:33:de:2e:15:b5:70:3a:57:3c:26:0a:72:8d
# Fingerprint (SHA1): 1a:c9:2f:09:ea:89:e2:8b:12:6d:fa:c5:1e:3a:f7:ea:90:95:a3:ee
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "IGC/A AC racine Etat francais"
CKA_CERTIFICATE_TYPE
 CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\136\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\016\060\014\006\003\125\004\012\023\005\101\116\123\123\111\061
\027\060\025\006\003\125\004\013\023\016\060\060\060\062\040\061
\063\060\060\060\067\066\066\071\061\046\060\044\006\003\125\004
\003\023\035\111\107\103\057\101\040\101\103\040\162\141\143\151
\156\145\040\105\164\141\164\040\146\162\141\156\143\141\151\163
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\136\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\016\060\014\006\003\125\004\012\023\005\101\116\123\123\111\061
\027\060\025\006\003\125\004\013\023\016\060\060\060\062\040\061
\063\060\060\060\067\066\066\071\061\046\060\044\006\003\125\004
\003\023\035\111\107\103\057\101\040\101\103\040\162\141\143\151
\156\145\040\105\164\141\164\040\146\162\141\156\143\141\151\163
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\022\021\041\205\014\263\234\152\062\372\276\147\033\201\077
\244\206\025\217
END
CKA_VALUE
 MULTILINE_OCTAL
\060\202\005\303\060\202\003\253\240\003\002\001\002\002\022\021
\041\205\014\263\234\152\062\372\276\147\033\201\077\244\206\025
\217\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000
\060\136\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\016\060\014\006\003\125\004\012\023\005\101\116\123\123\111\061
\027\060\025\006\003\125\004\013\023\016\060\060\060\062\040\061
\063\060\060\060\067\066\066\071\061\046\060\044\006\003\125\004
\003\023\035\111\107\103\057\101\040\101\103\040\162\141\143\151
\156\145\040\105\164\141\164\040\146\162\141\156\143\141\151\163
\060\036\027\015\061\061\060\067\060\070\060\071\060\060\060\060
\132\027\015\062\070\060\064\061\065\060\071\060\060\060\060\132
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 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "IGC/A AC racine Etat francais"
Issuer: CN=IGC/A AC racine Etat francais,OU=0002 130007669,O=ANSSI,C=FR
Serial Number:11:21:85:0c:b3:9c:6a:32:fa:be:67:1b:81:3f:a4:86:15:8f
Subject: CN=IGC/A AC racine Etat francais,OU=0002 130007669,O=ANSSI,C=FR
Not Valid Before: Fri Jul 08 09:00:00 2011
Not Valid After: Sat Apr 15 09:00:00 2028
Fingerprint (MD5): f4:f5:81:33:de:2e:15:b5:70:3a:57:3c:26:0a:72:8d

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# Fingerprint (SHA1): 1a:c9:2f:09:ea:89:e2:8b:12:6d:fa:c5:1e:3a:f7:ea:90:95:a3:ee
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "IGC/A AC racine Etat francais"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\032\311\057\011\352\211\342\213\022\155\372\305\036\072\367\352
\220\225\243\356
END
CKA_CERT_MD5_HASH
 MULTILINE_OCTAL
\364\365\201\063\336\056\025\265\160\072\127\074\046\012\162\215
END
CKA_ISSUER MULTILINE_OCTAL
\060\136\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\016\060\014\006\003\125\004\012\023\005\101\116\123\123\111\061
\027\060\025\006\003\125\004\013\023\016\060\060\060\062\040\061
\063\060\060\060\067\066\066\071\061\046\060\044\006\003\125\004
\003\023\035\111\107\103\057\101\040\101\103\040\162\141\143\151
\156\145\040\105\164\141\164\040\146\162\141\156\143\141\151\163
END
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\244\206\025\217
END
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CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "PersonalID Trustworthy RootCA 2011"
#
 Issuer: CN=PersonalID Trustworthy RootCA 2011,OU=Certificate Services,O=PersonalID Ltd.,C=IL
# Serial Number:58:cb:f9:64:96:71:74:95:40:f4:ad:08:ac:64:e4:e3
# Subject: CN=PersonalID Trustworthy RootCA 2011,OU=Certificate Services,O=PersonalID Ltd.,C=IL
# Not Valid Before: Thu Sep 01 08:35:21 2011
# Not Valid After: Sun Sep 01 08:45:16 2041
# Fingerprint (MD5): 20:3c:23:dc:f6:7a:97:14:0e:5f:48:b4:7d:ad:ac:c8
# Fingerprint (SHA1): 43:94:ce:31:26:ff:1a:22:4c:dd:4d:ee:b4:f4:ec:1d:a3:68:ef:6a
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "PersonalID Trustworthy RootCA 2011"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
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\060\163\061\013\060\011\006\003\125\004\006\023\002\111\114\061
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\141\154\111\104\040\114\164\144\056\061\035\060\033\006\003\125
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 UTF8 "0"
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CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "PersonalID Trustworthy RootCA 2011"
Issuer: CN=PersonalID Trustworthy RootCA 2011,OU=Certificate Services,O=PersonalID Ltd.,C=IL
Serial Number:58:cb:f9:64:96:71:74:95:40:f4:ad:08:ac:64:e4:e3
Subject: CN=PersonalID Trustworthy RootCA 2011,OU=Certificate Services,O=PersonalID Ltd.,C=IL
Not Valid Before: Thu Sep 01 08:35:21 2011
Not Valid After: Sun Sep 01 08:45:16 2041
Fingerprint (MD5): 20:3c:23:dc:f6:7a:97:14:0e:5f:48:b4:7d:ad:ac:c8
#
 Fingerprint (SHA1): 43:94:ce:31:26:ff:1a:22:4c:dd:4d:ee:b4:f4:ec:1d:a3:68:ef:6a
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "PersonalID Trustworthy RootCA 2011"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\103\224\316\061\046\377\032\042\114\335\115\356\264\364\354\035
\243\150\357\152
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\040\074\043\334\366\172\227\024\016\137\110\264\175\255\254\310
END
CKA_ISSUER MULTILINE_OCTAL
\060\163\061\013\060\011\006\003\125\004\006\023\002\111\114\061
\030\060\026\006\003\125\004\012\014\017\120\145\162\163\157\156
\141\154\111\104\040\114\164\144\056\061\035\060\033\006\003\125
\004\013\014\024\103\145\162\164\151\146\151\143\141\164\145\040
\123\145\162\166\151\143\145\163\061\053\060\051\006\003\125\004
\003\014\042\120\145\162\163\157\156\141\154\111\104\040\124\162
\165\163\164\167\157\162\164\150\171\040\122\157\157\164\103\101
\040\062\060\061\061
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\130\313\371\144\226\161\164\225\100\364\255\010\254\144
\344\343
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Swiss Government Root CA II"
Issuer: CN=Swiss Government Root CA II,OU=Certification Authorities,OU=Services,O=The Federal Authorities of the Swiss Confederation,C=CH
Serial Number:0e:9f:17:99:a5:b1:3d:9c:cb:ec:06:eb:a3:f0:0e:69
Subject: CN=Swiss Government Root CA II,OU=Certification Authorities,OU=Services,O=The Federal Authorities of the Swiss Confederation,C=CH
Not Valid Before: Wed Feb 16 09:00:00 2011
Not Valid After: Fri Feb 16 08:59:59 2035
Fingerprint (MD5): 30:b0:e4:cf:bf:f5:89:dc:bf:52:2d:88:1c:cb:aa:b3
Fingerprint (SHA1): c7:f7:cb:e2:02:36:66:f9:86:02:5d:4a:3e:31:3f:29:eb:0c:5b:38
CKA_CLASS
CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Swiss Government Root CA II"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\201\247\061\013\060\011\006\003\125\004\006\023\002\103\110
\061\073\060\071\006\003\125\004\012\023\062\124\150\145\040\106
\145\144\145\162\141\154\040\101\165\164\150\157\162\151\164\151
\145\163\040\157\146\040\164\150\145\040\123\167\151\163\163\040
\103\157\156\146\145\144\145\162\141\164\151\157\156\061\021\060
\017\006\003\125\004\013\023\010\123\145\162\166\151\143\145\163
\061\042\060\040\006\003\125\004\013\023\031\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\151\145\163\061\044\060\042\006\003\125\004\003\023\033\123
\167\151\163\163\040\107\157\166\145\162\156\155\145\156\164\040
\122\157\157\164\040\103\101\040\111\111
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\247\061\013\060\011\006\003\125\004\006\023\002\103\110
\061\073\060\071\006\003\125\004\012\023\062\124\150\145\040\106
\145\144\145\162\141\154\040\101\165\164\150\157\162\151\164\151
\145\163\040\157\146\040\164\150\145\040\123\167\151\163\163\040
\103\157\156\146\145\144\145\162\141\164\151\157\156\061\021\060
\017\006\003\125\004\013\023\010\123\145\162\166\151\143\145\163
\061\042\060\040\006\003\125\004\013\023\031\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\151\145\163\061\044\060\042\006\003\125\004\003\023\033\123
\167\151\163\163\040\107\157\166\145\162\156\155\145\156\164\040
\122\157\157\164\040\103\101\040\111\111
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\016\237\027\231\245\261\075\234\313\354\006\353\243\360
\016\151
END
CKA_VALUE MULTILINE_OCTAL
\060\202\010\070\060\202\006\040\240\003\002\001\002\002\020\016
\237\027\231\245\261\075\234\313\354\006\353\243\360\016\151\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\201
\247\061\013\060\011\006\003\125\004\006\023\002\103\110\061\073
\060\071\006\003\125\004\012\023\062\124\150\145\040\106\145\144
\145\162\141\154\040\101\165\164\150\157\162\151\164\151\145\163
\040\157\146\040\164\150\145\040\123\167\151\163\163\040\103\157
\156\146\145\144\145\162\141\164\151\157\156\061\021\060\017\006
\003\125\004\013\023\010\123\145\162\166\151\143\145\163\061\042
\060\040\006\003\125\004\013\023\031\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\151
\145\163\061\044\060\042\006\003\125\004\003\023\033\123\167\151
\163\163\040\107\157\166\145\162\156\155\145\156\164\040\122\157
\157\164\040\103\101\040\111\111\060\036\027\015\061\061\060\062
\061\066\060\071\060\060\060\060\132\027\015\063\065\060\062\061

\066\060\070\065\071\065\071\132\060\201\247\061\013\060\011\006
\003\125\004\006\023\002\103\110\061\073\060\071\006\003\125\004
\012\023\062\124\150\145\040\106\145\144\145\162\141\154\040\101
\165\164\150\157\162\151\164\151\145\163\040\157\146\040\164\150
\145\040\123\167\151\163\163\040\103\157\156\146\145\144\145\162
\141\164\151\157\156\061\021\060\017\006\003\125\004\013\023\010
\123\145\162\166\151\143\145\163\061\042\060\040\006\003\125\004
\013\023\031\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\151\145\163\061\044\060\042
\006\003\125\004\003\023\033\123\167\151\163\163\040\107\157\166
\145\162\156\155\145\156\164\040\122\157\157\164\040\103\101\040
\111\111\060\202\002\042\060\015\006\011\052\206\110\206\367\015
\001\001\001\005\000\003\202\002\017\000\060\202\002\012\002\202
\002\001\000\251\054\022\355\277\300\042\351\206\350\034\067\202
\203\233\150\005\157\026\343\210\250\001\017\313\161\236\177\107
\220\113\314\045\167\310\360\327\151\056\221\150\127\041\262\262
\007\041\063\356\114\244\067\045\230\114\264\106\062\116\326\371
\153\213\121\212\357\054\067\362\230\325\365\324\264\267\347\000
\312\357\301\023\136\224\253\156\273\234\275\372\153\217\253\370
\036\066\126\151\070\146\072\320\364\063\015\000\071\002\250\305
\034\013\041\267\134\040\014\141\320\255\256\316\216\136\331\072
\351\336\377\107\174\170\127\016\034\161\364\140\034\335\333\232
\030\051\257\331\200\243\237\205\204\143\063\221\357\275\164\356
\335\003\172\310\372\340\204\346\331\275\116\176\372\156\117\166
\321\135\076\250\350\207\105\220\171\363\255\256\365\302\135\021
\115\051\367\210\023\311\325\223\163\001\253\335\355\375\257\167
\373\151\116\357\217\122\034\317\365\054\132\154\354\376\202\233
\333\174\071\253\165\043\176\070\220\117\224\216\055\142\130\236
\367\347\162\374\224\133\162\126\305\235\243\256\253\265\266\300
\327\166\120\000\074\077\107\210\222\132\140\324\277\062\033\246
\224\100\015\166\171\351\074\316\344\263\035\307\214\365\350\206
\061\271\330\053\120\112\200\022\211\327\054\120\200\346\147\057
\266\223\234\255\254\005\122\042\123\040\231\016\275\227\306\341
\332\163\251\035\211\362\304\131\346\207\346\126\053\016\225\002
\032\207\306\171\376\231\152\351\164\354\360\022\371\024\050\040
\225\226\072\057\135\127\265\157\377\223\274\266\050\152\054\244
\050\170\106\141\257\101\044\244\363\372\004\216\361\212\031\242
\221\163\342\167\217\264\247\371\234\377\156\121\354\275\037\226
\023\350\143\221\136\207\150\157\353\330\174\056\020\117\120\030
\220\307\267\164\357\063\300\201\337\063\343\032\223\053\125\004
\054\174\322\053\267\143\014\376\255\173\275\266\072\227\271\075
\003\043\164\163\003\246\054\131\000\154\325\325\350\354\257\102
\314\323\177\160\213\140\140\347\262\240\266\212\122\114\376\012
\226\313\317\072\260\130\010\356\034\102\311\206\167\102\156\077
\264\254\220\000\130\102\034\100\304\156\270\105\310\274\063\066
\337\275\047\002\003\001\000\001\243\202\002\134\060\202\002\130
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001
\377\060\201\235\006\003\125\035\040\004\201\225\060\201\222\060

\201\217\006\010\140\205\164\001\021\003\025\001\060\201\202\060
\104\006\010\053\006\001\005\005\007\002\001\026\070\150\164\164
\160\072\057\057\167\167\167\056\160\153\151\056\141\144\155\151
\156\056\143\150\057\143\160\163\057\103\120\123\137\062\137\061
\066\137\067\065\066\137\061\137\061\067\137\063\137\062\061\137
\061\056\160\144\146\060\072\006\010\053\006\001\005\005\007\002
\002\060\056\032\054\124\150\151\163\040\151\163\040\164\150\145
\040\123\167\151\163\163\040\107\157\166\145\162\156\155\145\156
\164\040\122\157\157\164\040\103\101\040\111\111\040\103\120\123
\056\060\201\217\006\003\125\035\037\004\201\207\060\201\204\060
\201\201\240\177\240\175\206\173\154\144\141\160\072\057\057\141
\144\155\151\156\144\151\162\056\141\144\155\151\156\056\143\150
\072\063\070\071\057\143\156\075\123\167\151\163\163\045\062\060
\107\157\166\145\162\156\155\145\156\164\045\062\060\122\157\157
\164\045\062\060\103\101\045\062\060\111\111\054\157\165\075\103
\145\162\164\151\146\151\143\141\164\151\157\156\045\062\060\101
\165\164\150\157\162\151\164\151\145\163\054\157\165\075\123\145
\162\166\151\143\145\163\054\157\075\101\144\155\151\156\054\143
\075\103\110\060\035\006\003\125\035\016\004\026\004\024\345\204
\157\211\151\075\166\000\027\177\301\253\275\256\137\301\175\272
\341\142\060\016\006\003\125\035\017\001\001\377\004\004\003\002
\001\006\060\201\343\006\003\125\035\043\004\201\333\060\201\330
\200\024\345\204\157\211\151\075\166\000\027\177\301\253\275\256
\137\301\175\272\341\142\241\201\255\244\201\252\060\201\247\061
\013\060\011\006\003\125\004\006\023\002\103\110\061\073\060\071
\006\003\125\004\012\023\062\124\150\145\040\106\145\144\145\162
\141\154\040\101\165\164\150\157\162\151\164\151\145\163\040\157
\146\040\164\150\145\040\123\167\151\163\163\040\103\157\156\146
\145\144\145\162\141\164\151\157\156\061\021\060\017\006\003\125
\004\013\023\010\123\145\162\166\151\143\145\163\061\042\060\040
\006\003\125\004\013\023\031\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\151\145\163
\061\044\060\042\006\003\125\004\003\023\033\123\167\151\163\163
\040\107\157\166\145\162\156\155\145\156\164\040\122\157\157\164
\040\103\101\040\111\111\202\020\016\237\027\231\245\261\075\234
\313\354\006\353\243\360\016\151\060\015\006\011\052\206\110\206
\367\015\001\001\013\005\000\003\202\002\001\000\203\067\127\165
\311\070\120\277\101\006\226\160\302\331\307\327\260\132\000\315
\243\100\117\323\322\371\212\207\221\262\211\313\135\244\274\157
\117\076\124\366\312\074\263\304\114\213\307\076\364\331\304\142
\335\307\125\236\321\371\322\104\347\036\117\317\350\356\053\034
\250\001\360\063\007\373\341\073\024\323\317\120\221\136\330\352
\102\306\171\130\205\252\373\334\333\160\312\225\371\364\016\142
\002\160\151\104\055\150\117\321\160\352\050\122\146\267\161\336
\045\350\241\247\157\260\241\046\307\327\312\040\144\334\300\163
\074\020\242\024\036\364\255\301\076\024\220\071\066\143\210\157
\050\340\140\245\221\367\142\344\232\317\322\265\161\236\135\073
\366\231\054\355\221\072\010\234\264\204\205\111\343\341\272\246

\266\150\263\266\266\117\113\134\123\012\127\154\241\007\222\366
\142\236\250\372\212\326\363\153\247\017\262\053\146\275\257\102
\107\010\117\350\327\174\237\206\017\372\132\203\276\055\157\000
\004\265\166\207\026\257\335\117\072\226\264\064\127\267\342\377
\101\377\336\102\034\146\305\205\353\302\162\037\270\034\116\356
\027\362\142\357\012\004\254\233\253\241\362\356\356\242\100\044
\034\107\336\102\213\030\264\251\127\263\117\074\142\062\034\255
\154\104\255\274\325\034\143\070\075\311\063\246\373\274\050\067
\104\106\343\172\142\372\200\110\065\342\236\033\210\031\114\263
\101\375\356\167\340\131\200\032\141\036\065\244\101\172\263\301
\215\104\351\305\041\131\351\254\323\104\312\166\205\066\024\106
\012\036\026\064\246\304\064\167\303\202\070\110\041\002\376\022
\154\332\327\352\260\354\366\315\054\314\363\233\012\143\200\323
\365\013\175\004\055\204\015\302\331\114\053\227\361\325\124\367
\217\263\012\342\275\130\074\231\362\257\071\033\220\371\073\347
\267\105\347\132\152\175\301\237\024\157\060\127\230\031\240\007
\103\353\356\321\010\206\327\111\234\022\012\000\073\017\247\101
\261\112\253\220\263\324\275\011\347\210\017\236\044\016\053\373
\141\075\125\231\323\130\344\270\307\175\364\025\115\145\016\030
\171\101\311\273\351\232\301\131\030\104\064\142\325\350\070\173
\312\205\030\230\206\171\315\175\272\107\333\225
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Swiss Government Root CA II"
Issuer: CN=Swiss Government Root CA II,OU=Certification Authorities,OU=Services,O=The Federal Authorities of the Swiss Confederation,C=CH
Serial Number:0e:9f:17:99:a5:b1:3d:9c:cb:ec:06:eb:a3:f0:0e:69
Subject: CN=Swiss Government Root CA II,OU=Certification Authorities,OU=Services,O=The Federal Authorities of the Swiss Confederation,C=CH
Not Valid Before: Wed
Feb 16 09:00:00 2011
Not Valid After: Fri Feb 16 08:59:59 2035
Fingerprint (MD5): 30:b0:e4:cf:bf:f5:89:dc:bf:52:2d:88:1c:cb:aa:b3
Fingerprint (SHA1): c7:f7:cb:e2:02:36:66:f9:86:02:5d:4a:3e:31:3f:29:eb:0c:5b:38
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Swiss Government Root CA II"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\307\367\313\342\002\066\146\371\206\002\135\112\076\061\077\051
\353\014\133\070
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\060\260\344\317\277\365\211\334\277\122\055\210\034\313\252\263
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\247\061\013\060\011\006\003\125\004\006\023\002\103\110
\061\073\060\071\006\003\125\004\012\023\062\124\150\145\040\106
\145\144\145\162\141\154\040\101\165\164\150\157\162\151\164\151
\145\163\040\157\146\040\164\150\145\040\123\167\151\163\163\040
\103\157\156\146\145\144\145\162\141\164\151\157\156\061\021\060
\017\006\003\125\004\013\023\010\123\145\162\166\151\143\145\163
\061\042\060\040\006\003\125\004\013\023\031\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\151\145\163\061\044\060\042\006\003\125\004\003\023\033\123
\167\151\163\163\040\107\157\166\145\162\156\155\145\156\164\040
\122\157\157\164\040\103\101\040\111\111
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\016\237\027\231\245\261\075\234\313\354\006\353\243\360
\016\151
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Swiss Government Root CA I"
Issuer: CN=Swiss Government Root CA I,OU=Certification Authorities,OU=Services,O=The Federal Authorities of the Swiss Confederation,C=CH
Serial Number:fd:75:04:8d:7a:60:86:93:69:4c:aa:00:3c:65:d3:3d
Subject: CN=Swiss Government Root CA
I,OU=Certification Authorities,OU=Services,O=The Federal Authorities of the Swiss Confederation,C=CH
Not Valid Before: Tue Feb 15 09:00:00 2011
Not Valid After: Thu Feb 15 08:59:59 2035
Fingerprint (MD5): c7:c9:da:9b:76:e1:ac:86:6b:34:bd:03:3f:e3:cf:d2
Fingerprint (SHA1): a1:58:51:87:15:65:86:ce:f9:c4:54:e2:2a:b1:5c:58:74:56:07:b4
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Swiss Government Root CA I"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\246\061\013\060\011\006\003\125\004\006\023\002\103\110
\061\073\060\071\006\003\125\004\012\023\062\124\150\145\040\106
\145\144\145\162\141\154\040\101\165\164\150\157\162\151\164\151
\145\163\040\157\146\040\164\150\145\040\123\167\151\163\163\040

\103\157\156\146\145\144\145\162\141\164\151\157\156\061\021\060
\017\006\003\125\004\013\023\010\123\145\162\166\151\143\145\163
\061\042\060\040\006\003\125\004\013\023\031\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\151\145\163\061\043\060\041\006\003\125\004\003\023\032\123
\167\151\163\163\040\107\157\166\145\162\156\155\145\156\164\040
\122\157\157\164\040\103\101\040\111
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\246\061\013\060\011\006\003\125\004\006\023\002\103\110
\061\073\060\071\006\003\125\004\012\023\062\124\150\145\040\106
\145\144\145\162\141\154\040\101\165\164\150\157\162\151\164\151
\145\163\040\157\146\040\164\150\145\040\123\167\151\163\163\040
\103\157\156\146\145\144\145\162\141\164\151\157\156\061\021\060
\017\006\003\125\004\013\023\010\123\145\162\166\151\143\145\163
\061\042\060\040\006\003\125\004\013\023\031\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\151\145\163\061\043\060\041\006\003\125\004\003\023\032\123
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\122\157\157\164\040\103\101\040\111
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
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\145\323\075
END
CKA_VALUE MULTILINE_OCTAL
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\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\201\246\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\073\060\071\006\003\125\004\012\023\062\124\150\145\040\106\145
\144\145\162\141\154\040\101\165\164\150\157\162\151\164\151\145
\163\040\157\146\040\164\150\145\040\123\167\151\163\163\040\103
\157\156\146\145\144\145\162\141\164\151\157\156\061\021\060\017
\006\003\125\004\013\023\010\123\145\162\166\151\143\145\163\061
\042\060\040\006\003\125\004\013\023\031\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\151\145\163\061\043\060\041\006\003\125\004\003\023\032\123\167
\151\163\163\040\107\157\166\145\162\156\155\145\156\164\040\122
\157\157\164\040\103\101\040\111\060\036\027\015\061\061\060\062
\061\065\060\071\060\060\060\060\132\027\015\063\065\060\062\061
\065\060\070\065\071\065\071\132\060\201\246\061\013\060\011\006
\003\125\004\006\023\002\103\110\061\073\060\071\006\003\125\004
\012\023\062\124\150\145\040\106\145\144\145\162\141\154\040\101
\165\164\150\157\162\151\164\151\145\163\040\157\146\040\164\150

\145\040\123\167\151\163\163\040\103\157\156\146\145\144\145\162
\141\164\151\157\156\061\021\060\017\006\003\125\004\013\023\010
\123\145\162\166\151\143\145\163\061\042\060\040\006\003\125\004
\013\023\031\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\151\145\163\061\043\060\041
\006\003\125\004\003\023\032\123\167\151\163\163\040\107\157\166
\145\162\156\155\145\156\164\040\122\157\157\164\040\103\101\040
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\144\146\061\215\054\275\216\102\012\237\306\312\251\220\054\332
\274\205\060\003\331\062\226\226\360\276\240\042\015\044\154\324
\306\177\132\114\121\044\055\124\162\010\174\063\351\314\050\307
\146\145\043\151\153\225\264\353\276\343\207\347\143\327\344\373
\007\255\022\222\353\347\344\012\103\262\251\337\307\220\274\046
\133\221\371\243\267\207\234\224\271\020\215\210\305\130\134\062
\274\026\354\016\127\117\376\247\223\170\217\340\305\071\273\007
\210\140\301\124\145\353\207\276\237\061\227\161\074\372\213\310
\203\154\122\226\340\254\300\357\313\151\010\225\133\340\340\273
\257\047\244\302\027\361\121\237\204\166\141\330\044\342\376\141
\155\144\065\111\352\071\304\041\142\275\314\342\002\377\110\153
\070\257\151\307\271\222\055\202\021\215\275\013\211\205\052\352
\267\264\262\315\113\353\321\372\252\360\340\114\011\074\115\337
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\116\077\002\362\120\245\027\340\147\033\162\014\101\061\037\001
\242\226\076\074\333\002\266\235\224\346\002\116\363\360\031\202
\262\010\043\023\353\221\315\121\323\252\106\302\163\230\230\077
\272\303\356\232\374\372\315\257\162\012\067\023\217\371\240\120
\263\352\373\077\054\274\372\143\125\065\364\322\274\270\161\322
\221\353\351\312\312\134\354\121\146\250\236\131\005\042\057\243
\032\333\117\340\105\142\043\074\135\125\373\060\225\053\064\242
\317\247\264\113\300\063\311\064\121\235\323\263\053\337\305\352
\054\054\307\337\104\037\266\215\271\376\363\134\315\067\057\260
\154\234\112\010\275\350\365\326\372\160\345\151\062\067\134\137
\013\313\077\344\210\002\314\312\263\170\057\175\277\110\263\041
\260\037\210\171\233\132\212\161\330\041\204\051\017\112\004\061
\052\275\015\041\104\316\164\235\046\323\111\035\370\206\250\345
\022\167\305\300\163\014\120\203\152\220\153\241\312\370\320\225
\331\065\206\307\021\243\073\024\307\313\206\130\126\015\373\203
\367\001\002\003\001\000\001\243\202\002\131\060\202\002\125\060
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377
\060\201\233\006\003\125\035\040\004\201\223\060\201\220\060\201
\215\006\010\140\205\164\001\021\003\001\000\060\201\200\060\103
\006\010\053\006\001\005\005\007\002\001\026\067\150\164\164\160
\072\057\057\167\167\167\056\160\153\151\056\141\144\155\151\156
\056\143\150\057\143\160\163\057\103\120\123\137\062\137\061\066

\137\067\065\066\137\061\137\061\067\137\063\137\061\137\060\056
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\167\151\163\163\040\107\157\166\145\162\156\155\145\156\164\040
\122\157\157\164\040\103\101\040\111\040\103\120\123\056\060\201
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\156\144\151\162\056\141\144\155\151\156\056\143\150\072\063\070
\071\057\143\156\075\123\167\151\163\163\045\062\060\107\157\166
\145\162\156\155\145\156\164\045\062\060\122\157\157\164\045\062
\060\103\101\045\062\060\111\054\157\165\075\103\145\162\164\151
\146\151\143\141\164\151\157\156\045\062\060\101\165\164\150\157
\162\151\164\151\145\163\054\157\165\075\123\145\162\166\151\143
\145\163\054\157\075\101\144\155\151\156\054\143\075\103\110\060
\035\006\003\125\035\016\004\026\004\024\265\033\203\273\073\117
\262\322\373\345\003\216\324\141\135\321\032\216\260\242\060\016
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\343\006\003\125\035\043\004\201\333\060\201\330\200\024\265\033
\203\273\073\117\262\322\373\345\003\216\324\141\135\321\032\216
\260\242\241\201\254\244\201\251\060\201\246\061\013\060\011\006
\003\125\004\006\023\002\103\110\061\073\060\071\006\003\125\004
\012\023\062\124\150\145\040\106\145\144\145\162\141\154\040\101
\165\164\150\157\162\151\164\151\145\163\040\157\146\040\164\150
\145\040\123\167\151\163\163\040\103\157\156\146\145\144\145\162
\141\164\151\157\156\061\021\060\017\006\003\125\004\013\023\010
\123\145\162\166\151\143\145\163\061\042\060\040\006\003\125\004
\013\023\031\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\151\145\163\061\043\060\041
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\145\162\156\155\145\156\164\040\122\157\157\164\040\103\101\040
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\013\005\000\003\202\002\001\000\045\332\337\170\260\046\334\237
\231\353\063\234\311\105\272\134\143\122\215\156\003\163\252\164
\110\305\015\013\322\027\014\054\013\322\306\045\203\324\124\315
\007\201\124\057\147\166\045\247\351\327\177\226\107\167\244\035
\233\105\377\361\330\366\236\107\016\164\214\023\304\362\276\326
\007\050\030\074\230\165\301\333\353\222\210\046\346\006\144\216
\371\322\375\342\231\065\201\321\330\165\027\265\163\352\335\350
\030\042\225\026\031\012\131\052\042\334\206\132\103\117\045\150
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\121\304\176\330\122\356\260\215\212\210\161\245\327\050\247\364
\334\006\130\045\136\304\125\030\010\225\164\174\270\001\347\116
\330\326\366\174\040\103\110\015\243\340\336\124\304\250\137\000
\111\103\323\105\073\202\145\156\356\213\243\001\042\126\232\361
\316\051\345\014\304\153\355\347\116\370\261\125\201\255\161\377
\204\373\010\127\346\107\312\255\207\370\106\370\372\360\065\204
\355\264\330\210\227\042\167\244\217\026\310\074\147\321\341\156

\004\254\173\217\066\315\336\245\010\254\052\215\365\247\035\237
\307\303\221\041\102\243\206\201\271\052\330\261\351\070\035\124
\010\230\071\012\021\312\062\016\063\315\364\114\352\250\112\006
\351\030\076\101\306\317\240\366\340\053\153\040\216\247\040\002
\353\060\101\201\260\350\344\256\244\030\211\053\337\024\360\022
\051\155\170\372\115\104\373\262\064\345\257\363\216\065\367\303
\316\054\013\030\264\320\171\217\023\277\003\213\146\270\265\141
\324\254\016\375\170\075\011\255\265\322\054\117\126\101\231\210
\104\014\176\147\343\144\237\372\132\052\130\167\121\151\261\315
\054\232\247\064\020\005\164\372\156\105\143\313\213\122\255\107
\221\242\022\310\242\046\004\305\320\042\036\003\263\262\222\067
\124\127\375\211\203\165\003\155\055\073\263\361\244\242\020\174
\234\223\215\243\120\204\071\213\225\131\101\366\002\166\006\212
\274\016\220\347\331\072\353\255\046\136\127\123\321\157\310\165
\340\253\221\173\153\241\177\371\033\120\250\334\376\115\006\341
\025\212\244\020\353\036\006\317\124\110\025\226\050\266\043\037
\032\343\174\245\217\372\067\127
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Swiss Government Root CA I"
Issuer: CN=Swiss Government Root CA I,OU=Certification Authorities,OU=Services,O=The
Federal Authorities of the Swiss Confederation,C=CH
Serial Number:fd:75:04:8d:7a:60:86:93:69:4c:aa:00:3c:65:d3:3d
Subject: CN=Swiss Government Root CA I,OU=Certification Authorities,OU=Services,O=The Federal
Authorities of the Swiss Confederation,C=CH
Not Valid Before: Tue Feb 15 09:00:00 2011
Not Valid After: Thu Feb 15 08:59:59 2035
Fingerprint (MD5): c7:c9:da:9b:76:e1:ac:86:6b:34:bd:03:3f:e3:cf:d2
Fingerprint (SHA1): a1:58:51:87:15:65:86:ce:f9:c4:54:e2:2a:b1:5c:58:74:56:07:b4
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Swiss Government Root CA I"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\241\130\121\207\025\145\206\316\371\304\124\342\052\261\134\130
\164\126\007\264
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\307\311\332\233\166\341\254\206\153\064\275\003\077\343\317\322
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\246\061\013\060\011\006\003\125\004\006\023\002\103\110

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\061\073\060\071\006\003\125\004\012\023\062\124\150\145\040\106
\145\144\145\162\141\154\040\101\165\164\150\157\162\151\164\151
\145\163\040\157\146\040\164\150\145\040\123\167\151\163\163\040
\103\157\156\146\145\144\145\162\141\164\151\157\156\061\021\060
\017\006\003\125\004\013\023\010\123\145\162\166\151\143\145\163
\061\042\060\040\006\003\125\004\013\023\031\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\151\145\163\061\043\060\041\006\003\125\004\003\023\032\123
\167\151\163\163\040\107\157\166\145\162\156\155\145\156\164\040
\122\157\157\164\040\103\101\040\111
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\021\000\375\165\004\215\172\140\206\223\151\114\252\000\074
\145\323\075
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing
 Only Certificate
# Certificate "Network Solutions Certificate Authority"
# Issuer: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US
# Serial Number:1c:a0:2d:c1:52:3b:6a:6d:8b:5c:1f:95:4a:ed:ac:30
# Subject: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US
# Not Valid Before: Sat Jan 01 00:00:00 2011
# Not Valid After: Tue Dec 31 23:59:59 2030
# Fingerprint (MD5): bd:a4:1d:36:de:c2:7a:8a:04:37:cb:f2:00:a6:65:54
# Fingerprint (SHA1): 71:89:9a:67:bf:33:af:31:be:fd:c0:71:f8:f7:33:b1:83:85:63:32
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Network Solutions Certificate Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\142\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\041\060\037\006\003\125\004\012\023\030\116\145\164\167\157\162
\153\040\123\157\154\165\164\151\157\156\163\040\114\056\114\056
\103\056\061\060\060\056\006\003\125\004\003\023\047\116\145\164
\167\157\162\153\040\123\157\154\165\164\151\157\156\163\040\103
\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157
\162\151\164\171
END
CKA_ID
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UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
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\153\040\123\157\154\165\164\151\157\156\163\040\114\056\114\056
\103\056\061\060\060\056\006\003\125\004\003\023\047\116\145\164
\167\157\162\153\040\123\157\154\165\164\151\157\156\163\040\103
\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157
\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
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\254\060
END
CKA_VALUE MULTILINE_OCTAL
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\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\142
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\041\060
\037\006\003\125\004\012\023\030\116\145\164\167\157\162\153\040
\123\157\154\165\164\151\157\156\163\040\114\056\114\056\103\056
\061\060\060\056\006\003\125\004\003\023\047\116\145\164\167\157
\162\153\040\123\157\154\165\164\151\157\156\163\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171\060\036\027\015\061\061\060\061\060\061\060\060\060\060
\060\060\132\027\015\063\060\061\062\063\061\062\063\065\071\065
\071\132\060\142\061\013\060\011\006\003\125\004\006\023\002\125
\123\061\041\060\037\006\003\125\004\012\023\030\116\145\164\167
\157\162\153\040\123\157\154\165\164\151\157\156\163\040\114\056
\114\056\103\056\061\060\060\056\006\003\125\004\003\023\047\116
\145\164\167\157\162\153\040\123\157\154\165\164\151\157\156\163
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\060\202\001\042\060\015\006\011\052\206
\110\206\367\015\001\001\001\005\000\003\202\001\017\000\060\202
\001\012\002\202\001\001\000\344\274\176\222\060\155\306\330\216
\053\013\274\106\316\340\047\226\336\336\371\372\022\323\074\063
\163\263\004\057\274\161\214\345\237\266\042\140\076\137\135\316
\011\377\202\014\033\232\121\120\032\046\211\335\325\141\135\031
\334\022\017\055\012\242\103\135\027\320\064\222\040\352\163\317
\070\054\006\046\011\172\162\367\372\120\062\370\302\223\323\151
\242\043\316\101\261\314\344\325\037\066\321\212\072\370\214\143
\342\024\131\151\355\015\323\177\153\350\270\003\345\117\152\345
\230\143\151\110\005\276\056\377\063\266\351\227\131\151\370\147
\031\256\223\141\226\104\025\323\162\260\077\274\152\175\354\110
\177\215\303\253\252\161\053\123\151\101\123\064\265\260\271\305
\006\012\304\260\105\365\101\135\156\211\105\173\075\073\046\214
\164\302\345\322\321\175\262\021\324\373\130\062\042\232\200\311
\334\375\014\351\177\136\003\227\316\073\000\024\207\047\160\070

\251\216\156\263\047\166\230\121\340\005\343\041\253\032\325\205
\042\074\051\265\232\026\305\200\250\364\273\153\060\217\057\106
\002\242\261\014\042\340\323\002\003\001\000\001\243\102\060\100
\060\035\006\003\125\035\016\004\026\004\024\041\060\311\373\000
\327\116\230\332\207\252\052\320\247\056\261\100\061\247\114\060
\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\003
\202\001\001\000\302\211\204\240\350\214\146\375\377\023\005\033
\303\072\216\230\111\212\370\252\000\134\046\375\162\152\243\176
\022\033\224\256\124\370\041\217\247\223\117\367\026\357\271\271
\263\062\300\045\041\061\146\067\054\011\260\376\062\260\067\354
\074\270\316\217\010\252\010\220\007\134\165\325\341\116\054\313
\002\044\351\242\136\351\365\170\065\042\006\034\362\037\210\261
\341\134\314\226\124\372\157\111\314\215\361\126\003\355\317\054
\237\047\336\345\312\203\104\276\106\100\371\127\056\322\177\061
\055\316\203\334\376\160\153\204\320\243\237\377\227\320\250\327
\002\354\261\054\360\357\163\070\075\231\254\304\117\001\277\325
\152\352\306\056\062\051\027\012\313\346\151\236\321\112\265\366
\337\216\031\370\225\351\105\251\016\315\155\101\131\040\236\163
\306\154\161\034\234\324\115\060\250\163\011\240\025\363\240\105
\046\303\133\375\273\271\330\055\327\037\365\005\060\031\366\256
\017\216\142\217\337\310\117\206\331\035\141\026\263\311\360\273
\373\307\365\257\001\042\107\354\330\332\317\034\363\123\146\272
\123\011\001\371
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Network Solutions Certificate Authority"
Issuer: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US
Serial Number:1c:a0:2d:c1:52:3b:6a:6d:8b:5c:1f:95:4a:ed:ac:30
Subject: CN=Network Solutions Certificate Authority,O=Network Solutions
 L.L.C.,C=US
Not Valid Before: Sat Jan 01 00:00:00 2011
Not Valid After: Tue Dec 31 23:59:59 2030
Fingerprint (MD5): bd:a4:1d:36:de:c2:7a:8a:04:37:cb:f2:00:a6:65:54
Fingerprint (SHA1): 71:89:9a:67:bf:33:af:31:be:fd:c0:71:f8:f7:33:b1:83:85:63:32
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Network Solutions Certificate Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\161\211\232\147\277\063\257\061\276\375\300\161\370\367\063\261

```
\203\205\143\062
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\275\244\035\066\336\302\172\212\004\067\313\362\000\246\145\124
END
CKA_ISSUER MULTILINE_OCTAL
\060\142\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\041\060\037\006\003\125\004\012\023\030\116\145\164\167\157\162
\153\040\123\157\154\165\164\151\157\156\163\040\114\056\114\056
\103\056\061\060\060\056\006\003\125\004\003\023\047\116\145\164
\167\157\162\153\040\123\157\154\165\164\151\157\156\163\040\103
\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157
\162\151\164\171
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\034\240\055\301\122\073\152\155\213\134\037\225\112\355
\254\060
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "LuxTrust Global Root"
# Issuer: CN=LuxTrust Global Root,O=LuxTrust s.a.,C=LU
# Serial Number: 3000 (0xbb8)
# Subject: CN=LuxTrust Global Root,O=LuxTrust s.a.,C=LU
# Not Valid Before: Thu Mar 17 09:51:37 2011
# Not Valid After: Wed Mar 17 09:51:37 2021
# Fingerprint (MD5): 42:a5:21:7a:4c:af:c7:bf:fd:a7:f5:b2:10:4c:3e:be
# Fingerprint (SHA1): c9:3c:34:ea:90:d9:13:0c:0f:03:00:4b:98:bd:8b:35:70:91:56:11
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE
 CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "LuxTrust Global Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\114\125\061
\026\060\024\006\003\125\004\012\023\015\114\165\170\124\162\165
\163\164\040\163\056\141\056\061\035\060\033\006\003\125\004\003
\023\024\114\165\170\124\162\165\163\164\040\107\154\157\142\141
\154\040\122\157\157\164
END
CKA_ID UTF8 "0"
```

CKA_ISSUER MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\114\125\061
\026\060\024\006\003\125\004\012\023\015\114\165\170\124\162\165
\163\164\040\163\056\141\056\061\035\060\033\006\003\125\004\003
\023\024\114\165\170\124\162\165\163\164\040\107\154\157\142\141
\154\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\013\270
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\144\060\202\002\114\240\003\002\001\002\002\002\013
\270\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000
\060\104\061\013\060\011\006\003\125\004\006\023\002\114\125\061
\026\060\024\006\003\125\004\012\023\015\114\165\170\124\162\165
\163\164\040\163\056\141\056\061\035\060\033\006\003\125\004\003
\023\024\114\165\170\124\162\165\163\164\040\107\154\157\142\141
\154\040\122\157\157\164\060\036\027\015\061\061\060\063\061\067
\060\071\065\061\063\067\132\027\015\062\061\060\063\061\067\060
\071\065\061\063\067\132\060\104\061\013\060\011\006\003\125\004
\006\023\002\114\125\061\026\060\024\006\003\125\004\012\023\015
\114\165\170\124\162\165\163\164\040\163\056\141\056\061\035\060
\033\006\003\125\004\003\023\024\114\165\170\124\162\165\163\164
\040\107\154\157\142\141\154\040\122\157\157\164\060\202\001\042
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\001\017\000\060\202\001\012\002\202\001\001\000\262\177\247
\100\360\042\312\014\366\353\261\361\313\016\225\127\100\165\257
\240\077\076\316\354\252\062\127\346\031\261\147\103\230\132\153
\174\263\270\372\170\234\252\246\204\262\140\033\200\101\316\143
\315\037\027\010\231\244\365\357\076\022\307\114\260\127\232\134
\170\100\170\374\105\215\332\221\147\334\072\121\271\155\163\346
\267\071\216\166\072\264\037\005\365\151\125\371\223\317\170\210
\112\276\252\233\327\173\107\133\106\004\114\202\026\246\065\366
\374\164\337\326\264\257\330\342\265\047\021\164\131\242\302\146
\054\150\012\341\230\210\210\074\212\005\165\024\343\270\256\363
\010\204\233\152\301\077\061\030\257\047\245\113\233\244\375\171
\061\336\230\075\016\141\312\207\230\301\370\212\060\234\372\076
\063\325\245\304\003\007\341\367\226\164\030\000\047\070\047\321
\053\252\252\341\101\105\213\157\361\045\302\334\242\227\225\307
\102\024\063\135\171\204\043\152\347\145\300\127\240\330\135\251
\143\001\347\260\344\213\350\370\305\143\270\345\154\164\220\075
\307\167\374\053\272\171\351\244\306\022\170\247\377\002\003\001
\000\001\243\140\060\136\060\014\006\003\125\035\023\004\005\060
\003\001\001\377\060\016\006\003\125\035\017\001\001\377\004\004
\003\002\001\006\060\037\006\003\125\035\043\004\030\060\026\200
\024\027\025\205\211\011\057\044\207\157\077\035\033\344\362\226
\171\203\110\023\316\060\035\006\003\125\035\016\004\026\004\024
\027\025\205\211\011\057\044\207\157\077\035\033\344\362\226\171

\203\110\023\316\060\015\006\011\052\206\110\206\367\015\001\001
\013\005\000\003\202\001\001\000\132\360\034\320\324\120\317\101
\176\346\270\235\175\303\160\320\136\066\377\156\216\172\057\336
\110\021\325\064\056\074\267\105\302\124\045\247\341\301\036\067
\203\266\224\256\266\105\110\003\352\225\276\353\234\152\264\067
\134\037\056\323\153\202\201\103\133\012\077\021\125\143\254\372
\174\010\002\067\240\074\071\004\063\376\227\062\310\122\345\331
\045\115\260\306\356\150\037\160\252\163\316\127\003\334\175\012
\015\063\362\322\132\337\012\154\073\314\021\121\227\032\244\041
\242\205\065\002\327\200\042\322\204\262\370\300\252\150\277\325
\353\252\303\013\253\241\174\053\367\365\073\207\341\124\127\354
\005\044\357\171\102\116\363\213\150\237\344\156\313\202\231\311
\314\052\334\123\302\037\160\203\253\041\017\126\264\110\377\337
\007\042\263\214\371\035\246\004\337\055\003\066\271\335\157\376
\061\210\146\377\154\155\104\064\257\010\167\076\046\322\162\364
\273\107\126\223\074\230\143\341\063\273\231\043\222\265\203\171
\350\035\237\147\255\142\326\211\326\366\374\047\336\062\047\313
\204\332\167\205\041\241\022\041
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "LuxTrust Global Root"
Issuer: CN=LuxTrust Global Root,O=LuxTrust s.a.,C=LU
Serial Number: 3000 (0xbb8)
Subject: CN=LuxTrust Global Root,O=LuxTrust s.a.,C=LU
Not Valid Before: Thu Mar 17 09:51:37 2011
Not Valid After: Wed Mar 17 09:51:37 2021
Fingerprint (MD5): 42:a5:21:7a:4c:af:c7:bf:fd:a7:f5:b2:10:4c:3e:be
Fingerprint (SHA1): c9:3c:34:ea:90:d9:13:0c:0f:03:00:4b:98:bd:8b:35:70:91:56:11
CKA_CLASS
 CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "LuxTrust Global Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\311\074\064\352\220\331\023\014\017\003\000\113\230\275\213\065
\160\221\126\021
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\102\245\041\172\114\257\307\277\375\247\365\262\020\114\076\276
END
CKA_ISSUER MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\114\125\061

\026\060\024\006\003\125\004\012\023\015\114\165\170\124\162\165
\163\164\040\163\056\141\056\061\035\060\033\006\003\125\004\003
\023\024\114\165\170\124\162\165\163\164\040\107\154\157\142\141
\154\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\013\270
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code
Signing Only Certificate
Certificate "AC1 RAIZ MTIN"
Issuer: C=ES,L=MADRID,O=MINISTERIO DE TRABAJO E INMIGRACION,OU=SUBDIRECCION
GENERAL DE PROCESO DE DATOS,OU=PRESTADOR DE SERVICIOS DE CERTIFICACION
MTIN,2.5.4.5=S2819001E,CN=AC1 RAIZ MTIN
Serial Number:05:0b:41:5e:82:7b
Subject: C=ES,L=MADRID,O=MINISTERIO DE TRABAJO E INMIGRACION,OU=SUBDIRECCION
GENERAL DE PROCESO DE DATOS,OU=PRESTADOR DE SERVICIOS DE CERTIFICACION
MTIN,2.5.4.5=S2819001E,CN=AC1 RAIZ MTIN
Not Valid Before: Thu Nov 05 16:17:45 2009
Not Valid After: Sun Nov 03 16:17:45 2019
Fingerprint (MD5): 27:13:d5:2c:70:06:3e:15:7b:d3:62:59:32:ea:01:05
Fingerprint (SHA1): 6a:d2:3b:9d:c4:8e:37:5f:85:9a:d9:ca:b5:85:32:5c:23:89:40:71
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AC1 RAIZ MTIN"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\342\061\026\060\024\006\003\125\004\003\023\015\101\103
\061\040\122\101\111\132\040\115\124\111\116\061\022\060\020\006
\003\125\004\005\023\011\123\062\070\061\071\060\060\061\105\061
\065\060\063\006\003\125\004\013\023\054\120\122\105\123\124\101
\104\117\122\040\104\105\040\123\105\122\126\111\103\111\117\123
\040\104\105\040\103\105\122\124\111\106\111\103\101\103\111\117
\116\040\115\124\111\116\061\061\060\057\006\003\125\004\013\023
\050\123\125\102\104\111\122\105\103\103\111\117\116\040\107\105
\116\105\122\101\114\040\104\105\040\120\122\117\103\105\123\117
\040\104\105\040\104\101\124\117\123\061\054\060\052\006\003\125
\004\012\023\043\115\111\116\111\123\124\105\122\111\117\040\104
\105\040\124\122\101\102\101\112\117\040\105\040\111\116\115\111
\107\122\101\103\111\117\116\061\017\060\015\006\003\125\004\007
\023\006\115\101\104\122\111\104\061\013\060\011\006\003\125\004

\006\023\002\105\123
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\342\061\026\060\024\006\003\125\004\003\023\015\101\103
\061\040\122\101\111\132\040\115\124\111\116\061\022\060\020\006
\003\125\004\005\023\011\123\062\070\061\071\060\060\061\105\061
\065\060\063\006\003\125\004\013\023\054\120\122\105\123\124\101
\104\117\122\040\104\105\040\123\105\122\126\111\103\111\117\123
\040\104\105\040\103\105\122\124\111\106\111\103\101\103\111\117
\116\040\115\124\111\116\061\061\060\057\006\003\125\004\013\023
\050\123\125\102\104\111\122\105\103\103\111\117\116\040\107\105
\116\105\122\101\114\040\104\105\040\120\122\117\103\105\123\117
\040\104\105\040\104\101\124\117\123\061\054\060\052\006\003\125
\004\012\023\043\115\111\116\111\123\124\105\122\111\117\040\104
\105\040\124\122\101\102\101\112\117\040\105\040\111\116\115\111
\107\122\101\103\111\117\116\061\017\060\015\006\003\125\004\007
\023\006\115\101\104\122\111\104\061\013\060\011\006\003\125\004
\006\023\002\105\123
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\006\005\013\101\136\202\173
END
CKA_VALUE MULTILINE_OCTAL
\060\202\011\111\060\202\007\061\240\003\002\001\002\002\006\005
\013\101\136\202\173\060\015\006\011\052\206\110\206\367\015\001
\001\005\005\000\060\201\342\061\026\060\024\006\003\125\004\003
\023\015\101\103\061\040\122\101\111\132\040\115\124\111\116\061
\022\060\020\006\003\125\004\005\023\011\123\062\070\061\071\060
\060\061\105\061\065\060\063\006\003\125\004\013\023\054\120\122
\105\123\124\101\104\117\122\040\104\105\040\123\105\122\126\111
\103\111\117\123\040\104\105\040\103\105\122\124\111\106\111\103
\101\103\111\117\116\040\115\124\111\116\061\061\060\057\006\003
\125\004\013\023\050\123\125\102\104\111\122\105\103\103\111\117
\116\040\107\105\116\105\122\101\114\040\104\105\040\120\122\117
\103\105\123\117\040\104\105\040\104\101\124\117\123\061\054\060
\052\006\003\125\004\012\023\043\115\111\116\111\123\124\105\122
\111\117\040\104\105\040\124\122\101\102\101\112\117\040\105\040
\111\116\115\111\107\122\101\103\111\117\116\061\017\060\015\006
\003\125\004\007\023\006\115\101\104\122\111\104\061\013\060\011
\006\003\125\004\006\023\002\105\123\060\036\027\015\060\071\061
\061\060\065\061\066\061\067\064\065\132\027\015\061\071\061\061
\060\063\061\066\061\067\064\065\132\060\201\342\061\026\060\024
\006\003\125\004\003\023\015\101\103\061\040\122\101\111\132\040
\115\124\111\116\061\022\060\020\006\003\125\004\005\023\011\123
\062\070\061\071\060\060\061\105\061\065\060\063\006\003\125\004

\013\023\054\120\122\105\123\124\101\104\117\122\040\104\105\040
\123\105\122\126\111\103\111\117\123\040\104\105\040\103\105\122
\124\111\106\111\103\101\103\111\117\116\040\115\124\111\116\061
\061\060\057\006\003\125\004\013\023\050\123\125\102\104\111\122
\105\103\103\111\117\116\040\107\105\116\105\122\101\114\040\104
\105\040\120\122\117\103\105\123\117\040\104\105\040\104\101\124
\117\123\061\054\060\052\006\003\125\004\012\023\043\115\111\116
\111\123\124\105\122\111\117\040\104\105\040\124\122\101\102\101
\112\117\040\105\040\111\116\115\111\107\122\101\103\111\117\116
\061\017\060\015\006\003\125\004\007\023\006\115\101\104\122\111
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\315\315\261\277\336\045\365\377\034\063\163\231\074\033\241\155
\365\240\304\175\233\070\146\215\011\337\003\154\127\065\264\023
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\307\331\116\377\063\064\247\062\100\062\223\127\376\201\257\045
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\045\200\346\252\206\142\100\347\117\020\141\051\111\046\253\115
\174\241\253\133\141\061\201\006\152\144\224\115\047\370\113\036
\321\325\103\342\327\261\155\366\366\377\264\160\125\366\010\231
\267\164\001\340\363\236\265\174\344\004\210\010\120\131\170\037
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\320\074\046\166\175\162\176\254\166\067\301\212\165\040\134\100
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\173\127\163\357\371\135\250\017\165\237\357\021\140\031\204\260
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\064\133\210\110\316\272\335\315\233\335\210\343\001\066\350\254
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\202\337\130\145\042\203\110\326\007\320\034\146\374\146\050\072
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\202\004\256\004\202\326\365\002\051\161\341\222\161\164\216\333
\252\161\035\304\073\306\142\046\154\206\074\043\125\353\051\321
\037\253\312\036\143\347\263\163\264\247\270\052\072\366\037\373
\207\145\210\374\363\237\376\277\353\325\035\266\250\003\351\145
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\060\035\006\003\125\035\016\004\026\004\024\063\103\030\263\304
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\143\166\253\361\354\044\247\040\370\036\350\317\161\202\003\335
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\130\161\262\114\246\032\011\043\064\120\161\025\153\107\333\373
\276\032\155\302\214\224\057\007\147\040\042\147\143\267\253\306
\031\234\226\015\142\352\010\244\032\160\357\251\271\357\116\305
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\143\276\144\077\226\116\113\217\375\055\246\164\300\337\111\072
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\327\373\244\001\065\132\315\247\353\024\157\264\267\140\042\010
\305\161\310\223\342\276\045\137\365\014\372\130\121\075\173\310
\057\067\371\223\034\052\011\340\147\375\226\211\102\312\353\066
\260\326\033\246\120\017\132\235\166\377\244\117\306\354\015\304
\341\320\347\130\076\326\171\300\167\115\014\325\263\344\230\115
\335\106\056\122\260\342\017\015\102\066\245\020\044\122\050\276
\142\065\102\071\311\172\226\037\356\346\113\131\077\044\163\213
\277\042\113\146\362\333\017\065\361\067\235\240\044
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "AC1 RAIZ MTIN"
Issuer: C=ES,L=MADRID,O=MINISTERIO DE TRABAJO E INMIGRACION,OU=SUBDIRECCION GENERAL DE PROCESO DE DATOS,OU=PRESTADOR DE SERVICIOS DE CERTIFICACION MTIN,2.5.4.5=S2819001E,CN=AC1
RAIZ MTIN
Serial Number:05:0b:41:5e:82:7b
Subject: C=ES,L=MADRID,O=MINISTERIO DE TRABAJO E INMIGRACION,OU=SUBDIRECCION GENERAL DE PROCESO DE DATOS,OU=PRESTADOR DE SERVICIOS DE CERTIFICACION MTIN,2.5.4.5=S2819001E,CN=AC1 RAIZ MTIN
Not Valid Before: Thu Nov 05 16:17:45 2009

```
# Not Valid After: Sun Nov 03 16:17:45 2019
# Fingerprint (MD5): 27:13:d5:2c:70:06:3e:15:7b:d3:62:59:32:ea:01:05
# Fingerprint (SHA1): 6a:d2:3b:9d:c4:8e:37:5f:85:9a:d9:ca:b5:85:32:5c:23:89:40:71
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AC1 RAIZ MTIN"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\152\322\073\235\304\216\067\137\205\232\331\312\265\205\062\134
\043\211\100\161
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\047\023\325\054\160\006\076\025\173\323\142\131\062\352\001\005
END
CKA_ISSUER MULTILINE_OCTAL
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\061\040\122\101\111\132\040\115\124\111\116\061\022\060\020\006
\003\125\004\005\023\011\123\062\070\061\071\060\060\061\105\061
\065\060\063\006\003\125\004\013\023\054\120\122\105\123\124\101
\104\117\122\040\104\105\040\123\105\122\126\111\103\111\117\123
\040\104\105\040\103\105\122\124\111\106\111\103\101\103\111\117
\116\040\115\124\111\116\061\061\060\057\006\003\125\004\013\023
\050\123\125\102\104\111\122\105\103\103\111\117\116\040\107\105
\116\105\122\101\114\040\104\105\040\120\122\117\103\105\123\117
\040\104\105\040\104\101\124\117\123\061\054\060\052\006\003\125
\004\012\023\043\115\111\116\111\123\124\105\122\111\117\040\104
\105\040\124\122\101\102\101\112\117\040\105\040\111\116\115\111
\107\122\101\103\111\117\116\061\017\060\015\006\003\125\004\007
\023\006\115\101\104\122\111\104\061\013\060\011\006\003\125\004
\006\023\002\105\123
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\006\005\013\101\136\202\173
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION
 CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Microsoft Root Certificate Authority 2011"
# Issuer: CN=Microsoft Root Certificate Authority 2011,O=Microsoft
Corporation,L=Redmond,ST=Washington,C=US
# Serial Number:3f:8b:c8:b5:fc:9f:b2:96:43:b5:69:d6:6c:42:e1:44
# Subject: CN=Microsoft Root Certificate Authority 2011,O=Microsoft
```

```
Corporation,L=Redmond,ST=Washington,C=US
# Not Valid Before: Tue Mar 22 22:05:28 2011
# Not Valid After: Sat Mar 22 22:13:04 2036
# Fingerprint (MD5): ce:04:90:d5:e5:6c:34:a5:ae:0b:e9:8b:e5:81:18:5d
# Fingerprint (SHA1): 8f:43:28:8a:d2:72:f3:10:3b:6f:b1:42:84:85:ea:30:14:c0:bc:fe
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft Root Certificate Authority 2011"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT
 MULTILINE_OCTAL
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\010\023\012\127\141\163\150\151
\156\147\164\157\156\061\020\060\016\006\003\125\004\007\023\007
\122\145\144\155\157\156\144\061\036\060\034\006\003\125\004\012
\023\025\115\151\143\162\157\163\157\146\164\040\103\157\162\160
\157\162\141\164\151\157\156\061\062\060\060\006\003\125\004\003
\023\051\115\151\143\162\157\163\157\146\164\040\122\157\157\164
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\040\062\060\061\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\010\023\012\127\141\163\150\151
\156\147\164\157\156\061\020\060\016\006\003\125\004\007\023\007
\122\145\144\155\157\156\144\061\036\060\034\006\003\125\004\012
\023\025\115\151\143\162\157\163\157\146\164\040\103\157\162\160
\157\162\141\164\151\157\156\061\062\060\060\006\003\125\004\003
\023\051\115\151\143\162\157\163\157\146\164\040\122\157\157\164
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\040\062\060\061\061
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\077\213\310\265\374\237\262\226\103\265\151\326\154\102
\341\104
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\355\060\202\003\325\240\003\002\001\002\002\020\077
\213\310\265\374\237\262\226\103\265\151\326\154\102\341\104\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\201
\210\061\013\060\011\006\003\125\004\006\023\002\125\123\061\023
\060\021\006\003\125\004\010\023\012\127\141\163\150\151\156\147
\164\157\156\061\020\060\016\006\003\125\004\007\023\007\122\145
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\162\151\164\171\040\062\060\061\061\060\036\027\015\061\061\060
\063\062\062\062\062\060\065\062\070\132\027\015\063\066\060\063
\062\062\062\062\061\063\060\064\132\060\201\210\061\013\060\011
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\014\051\207\321\157\200\134\217\104\177\135\220\001\122\130\254
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\235\312\375\014\013\242\233\167\140\113\003\224\244\060\151\022
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\051\065\367\110\026\002\065\217\325\171\174\115\002\317\137\353
\212\203\117\105\161\210\371\251\015\116\162\351\302\234\007\317
\111\033\116\004\016\143\121\214\136\330\000\301\125\054\266\306
\340\302\145\116\311\064\071\365\234\263\304\176\350\141\156\023
\137\025\304\137\331\176\355\035\316\356\104\354\313\056\206\261
\354\070\366\160\355\253\134\023\301\331\017\015\307\200\262\125

\355\064\367\254\233\344\303\332\347\107\074\246\265\217\061\337
\305\113\257\353\361\002\003\001\000\001\243\121\060\117\060\013
\006\003\125\035\017\004\004\003\002\001\206\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003
\125\035\016\004\026\004\024\162\055\072\002\061\220\103\271\024
\005\116\341\352\247\307\061\321\043\211\064\060\020\006\011\053
\006\001\004\001\202\067\025\001\004\003\002\001\000\060\015\006
\011\052\206\110\206\367\015\001\001\013\005\000\003\202\002\001
\000\177\162\317\017\267\305\025\333\233\300\111\312\046\133\376
\236\023\346\323\360\322\333\227\137\362\113\077\115\263\256\031
\256\355\327\227\240\254\357\251\072\243\302\101\260\345\270\221
\236\023\201\044\003\346\011\375\077\127\100\071\041\044\126\321
\020\057\113\100\251\066\206\113\264\123\127\232\373\361\176\211
\217\021\376\030\154\121\252\350\355\011\225\265\345\161\311\241
\351\207\165\246\025\177\311\176\067\124\136\164\223\305\303\147
\314\015\117\153\250\027\014\155\010\222\176\213\335\201\252\055
\160\041\303\075\006\024\273\277\044\136\247\204\327\077\017\041
\042\275\113\000\006\333\227\034\330\136\324\305\013\134\207\156
\120\244\350\303\070\244\373\313\054\305\222\146\233\205\136\313
\172\154\223\174\200\051\130\133\127\265\100\151\272\010\171\246
\144\142\025\235\207\226\105\265\146\043\040\003\213\034\163\240
\323\242\171\063\340\120\131\206\333\057\345\002\045\352\163\052
\237\000\024\310\066\307\222\073\351\116\000\354\330\126\011\271
\063\111\022\322\124\013\001\253\254\107\266\221\051\175\114\264
\165\200\122\001\350\312\202\366\237\314\254\234\217\027\352\057
\046\260\253\162\254\013\376\236\121\036\307\103\125\147\117\121
\263\127\326\266\354\356\122\267\072\351\116\341\327\201\210\274
\117\216\165\273\113\250\360\065\252\046\324\147\147\111\262\160
\114\073\223\334\035\337\170\220\206\162\262\070\244\321\334\222
\115\311\130\353\053\022\134\324\073\256\214\153\260\203\345\001
\077\370\011\062\366\223\065\064\042\257\335\067\015\167\011\200
\053\315\110\000\361\214\231\031\107\005\001\351\321\277\321\116
\320\346\050\103\067\231\244\012\112\010\331\232\161\163\322\252
\315\061\023\143\166\241\067\157\222\070\036\175\022\074\146\062
\347\313\155\341\374\122\211\335\312\326\146\005\232\226\141\276
\242\050\307\034\243\247\066\120\074\072\244\337\112\156\346\207
\073\316\353\360\340\201\067\235\023\074\122\216\275\271\035\064
\306\035\325\012\152\075\230\051\160\214\211\052\321\253\202\020
\110\037\334\364\357\245\305\273\125\032\070\143\204\116\267\154
\255\225\124\354\145\042\020\111\027\270\300\036\307\017\254\124
\107
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate

```
# Trust for "Microsoft Root Certificate Authority 2011"
# Issuer: CN=Microsoft Root Certificate Authority 2011,O=Microsoft
Corporation,L=Redmond,ST=Washington,C=US
# Serial Number:3f:8b:c8:b5:fc:9f:b2:96:43:b5:69:d6:6c:42:e1:44
# Subject: CN=Microsoft Root Certificate Authority 2011,O=Microsoft
 Corporation,L=Redmond,ST=Washington,C=US
# Not Valid Before: Tue Mar 22 22:05:28 2011
# Not Valid After: Sat Mar 22 22:13:04 2036
# Fingerprint (MD5): ce:04:90:d5:e5:6c:34:a5:ae:0b:e9:8b:e5:81:18:5d
# Fingerprint (SHA1): 8f:43:28:8a:d2:72:f3:10:3b:6f:b1:42:84:85:ea:30:14:c0:bc:fe
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft Root Certificate Authority 2011"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\217\103\050\212\322\162\363\020\073\157\261\102\204\205\352\060
\024\300\274\376
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\316\004\220\325\345\154\064\245\256\013\351\213\345\201\030\135
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\010\023\012\127\141\163\150\151
\156\147\164\157\156\061\020\060\016\006\003\125\004\007\023\007
\122\145\144\155\157\156\144\061\036\060\034\006\003\125\004\012
\023\025\115\151\143\162\157\163\157\146\164\040\103\157\162\160
\157\162\141\164\151\157\156\061\062\060\060\006\003\125\004\003
\023\051\115\151\143\162\157\163\157\146\164\040\122\157\157\164
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\040\062\060\061\061
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\077\213\310\265\374\237\262\226\103\265\151\326\154\102
\341\104
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "CCA India 2011"
# Issuer: CN=CCA India 2011,O=India PKI,C=IN
# Serial Number: 10126 (0x278e)
# Subject: CN=CCA India 2011,O=India PKI,C=IN
```

```
# Not Valid Before: Fri Mar 11 06:48:52 2011
# Not Valid After: Fri Mar 11 06:48:52 2016
# Fingerprint (MD5): 6e:3e:bc:f1:11:03:dc:4f:58:d5:2c:b0:74:f4:18:c8
# Fingerprint
 (SHA1): be:d5:25:d1:ac:63:a7:fc:6a:66:0b:a7:a8:95:81:8d:5e:8d:d5:64
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CCA India 2011"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\072\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\022\060\020\006\003\125\004\012\023\011\111\156\144\151\141\040
\120\113\111\061\027\060\025\006\003\125\004\003\023\016\103\103
\101\040\111\156\144\151\141\040\062\060\061\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\072\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\022\060\020\006\003\125\004\012\023\011\111\156\144\151\141\040
\120\113\111\061\027\060\025\006\003\125\004\003\023\016\103\103
\101\040\111\156\144\151\141\040\062\060\061\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\047\216
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\043\060\202\002\013\240\003\002\001\002\002\002\047
\216\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000
\060\072\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\022\060\020\006\003\125\004\012\023\011\111\156\144\151\141\040
\120\113\111\061\027\060\025\006\003\125\004\003\023\016\103\103
\101\040\111\156\144\151\141\040\062\060\061\061\060\036\027\015
\061\061\060\063\061\061\060\066\064\070\065\062\132\027\015\061
\066\060\063\061\061\060\066\064\070\065\062\132\060\072\061\013
\060\011\006\003\125\004\006\023\002\111\116\061\022\060\020\006
\003\125\004\012\023\011\111\156\144\151\141\040\120\113\111\061
\027\060\025\006\003\125\004\003\023\016\103\103\101\040\111\156
\144\151\141\040\062\060\061\061\060\202\001\042\060\015\006\011
\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017\000
\060\202\001\012\002\202\001\001\000\207\012\036\016\271\240\250
\040\230\032\270\172\025\366\107\361\277\322\306\047\344\022\152
\226\004\147\165\315\214\306\343\364\335\312\325\304\034\065\356
\115\351\344\042\324\227\070\327\254\143\151\110\300\174\171\142
\277\307\042\111\133\106\301\361\030\024\116\030\035\054\245\132
\222\270\205\025\257\027\126\023\216\237\026\016\042\226\201\204
\171\043\102\354\117\336\257\366\277\211\117\000\136\346\327\010
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\322\225\224\232\023\054\004\021\203\357\221\217\010\125\254\172
\126\104\233\305\364\324\027\353\344\167\115\224\341\101\130\021
\351\242\252\011\206\055\046\041\040\365\300\314\303\025\314\114
\011\273\335\334\365\122\003\171\140\217\074\171\072\045\064\043
\207\110\165\362\101\160\115\032\060\010\206\165\316\130\031\250
\327\025\176\043\362\347\111\276\377\376\127\122\170\102\363\046
\167\335\172\367\142\345\313\135\226\063\224\223\273\304\032\026
\257\010\127\353\234\345\367\043\164\215\351\035\013\261\212\224
\163\231\021\221\305\150\240\361\212\015\201\255\264\121\150\156
\111\206\000\006\122\116\051\103\347\002\003\001\000\001\243\063
\060\061\060\017\006\003\125\035\023\001\001\377\004\005\060\003
\001\001\377\060\021\006\003\125\035\016\004\012\004\010\115\007
\250\143\362\333\034\337\060\013\006\003\125\035\017\004\004\003
\002\001\006\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\003\202\001\001\000\156\024\332\040\362\110\153\144\377
\052\164\315\126\265\305\071\017\176\141\037\065\131\033\035\050
\155\043\164\235\170\277\253\255\211\000\271\160\205\365\350\024
\076\344\354\237\226\144\134\322\261\042\040\243\010\234\350\014
\113\150\050\216\125\005\277\076\340\116\332\330\234\320\156\040
\354\376\172\073\302\066\107\227\330\053\010\263\256\302\321\346
\010\077\112\350\072\077\126\365\340\345\077\362\151\266\171\022
\340\360\071\267\030\354\322\351\204\016\030\070\026\212\111\073
\157\127\325\071\073\277\023\360\300\247\315\362\075\036\154\221
\247\167\143\274\253\331\126\070\017\112\271\031\300\053\214\373
\227\037\306\247\354\206\316\323\215\343\321\373\165\321\361\367
\246\143\304\317\350\261\244\222\105\150\362\350\214\261\255\176
\055\040\373\270\245\124\355\312\015\217\062\035\150\246\061\156
\260\310\236\325\372\277\006\233\157\051\175\172\003\111\277\053
\173\131\223\024\305\352\313\361\114\051\202\016\051\356\212\124
\174\074\315\125\202\045\162\016\161\116\045\170\115\323\116\131
\100\312\316\363\231\321\242
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "CCA India 2011"
Issuer: CN=CCA India 2011,O=India PKI,C=IN
Serial Number: 10126 (0x278e)
Subject: CN=CCA India 2011,O=India PKI,C=IN
Not Valid Before: Fri Mar 11 06:48:52 2011
Not Valid After: Fri Mar 11 06:48:52 2016
Fingerprint (MD5): 6e:3e:bc:f1:11:03:dc:4f:58:d5:2c:b0:74:f4:18:c8
Fingerprint (SHA1): be:d5:25:d1:ac:63:a7:fc:6a:66:0b:a7:a8:95:81:8d:5e:8d:d5:64
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE

```
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CCA India 2011"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\276\325\045\321\254\143\247\374\152\146\013\247\250\225\201\215
\136\215\325\144
END
CKA_CERT_MD5_HASH
 MULTILINE_OCTAL
\156\076\274\361\021\003\334\117\130\325\054\260\164\364\030\310
END
CKA_ISSUER MULTILINE_OCTAL
\060\072\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\022\060\020\006\003\125\004\012\023\011\111\156\144\151\141\040
\120\113\111\061\027\060\025\006\003\125\004\003\023\016\103\103
\101\040\111\156\144\151\141\040\062\060\061\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\047\216
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "ANCERT Certificados Notariales V2"
# Issuer: CN=ANCERT Certificados Notariales V2,O=Agencia Notarial de Certificacion S.L.U. - CIF
B83395988,C=ES
# Serial Number:09:bd:56:05:2a:13:16:f4:68:4f:74:0e:a9:7d:1c:48
#
 Subject: CN=ANCERT Certificados Notariales V2,O=Agencia Notarial de Certificacion S.L.U. - CIF
B83395988,C=ES
# Not Valid Before: Tue May 25 16:56:14 2010
# Not Valid After: Sat May 25 16:56:14 2030
# Fingerprint (MD5): 75:70:cb:6e:6b:d6:9b:7d:90:bb:69:5e:59:f0:62:b4
# Fingerprint (SHA1): 6f:62:de:b8:6c:85:58:5a:e4:2e:47:8d:b4:d7:6d:b3:67:58:5a:e6
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ANCERT Certificados Notariales V2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\174\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\101\060\077\006\003\125\004\012\023\070\101\147\145\156\143\151
\141\040\116\157\164\141\162\151\141\154\040\144\145\040\103\145
\162\164\151\146\151\143\141\143\151\157\156\040\123\056\114\056
```

\125\056\040\055\040\103\111\106\040\102\070\063\063\071\065\071
\070\070\061\052\060\050\006\003\125\004\003\023\041\101\116\103
\105\122\124\040\103\145\162\164\151\146\151\143\141\144\157\163
\040\116\157\164\141\162\151\141\154\145\163\040\126\062
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\174\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\101\060\077\006\003\125\004\012\023\070\101\147\145\156\143\151
\141\040\116\157\164\141\162\151\141\154\040\144\145\040\103\145
\162\164\151\146\151\143\141\143\151\157\156\040\123\056\114\056
\125\056\040\055\040\103\111\106\040\102\070\063\063\071\065\071
\070\070\061\052\060\050\006\003\125\004\003\023\041\101\116\103
\105\122\124\040\103\145\162\164\151\146\151\143\141\144\157\163
\040\116\157\164\141\162\151\141\154\145\163\040\126\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\011\275\126\005\052\023\026\364\150\117\164\016\251\175
\034\110
END
CKA_VALUE MULTILINE_OCTAL
\060\202\007\022\060\202\004\372\240\003\002\001\002\002\020\011
\275\126\005\052\023\026\364\150\117\164\016\251\175\034\110\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\174
\061\013\060\011\006\003\125\004\006\023\002\105\123\061\101\060
\077\006\003\125\004\012\023\070\101\147\145\156\143\151\141\040
\116\157\164\141\162\151\141\154\040\144\145\040\103\145\162\164
\151\146\151\143\141\143\151\157\156\040\123\056\114\056\125\056
\040\055\040\103\111\106\040\102\070\063\063\071\065\071\070\070
\061\052\060\050\006\003\125\004\003\023\041\101\116\103\105\122
\124\040\103\145\162\164\151\146\151\143\141\144\157\163\040\116
\157\164\141\162\151\141\154\145\163\040\126\062\060\036\027\015
\061\060\060\065\062\065\061\066\065\066\061\064\132\027\015\063
\060\060\065\062\065\061\066\065\066\061\064\132\060\174\061\013
\060\011\006\003\125\004\006\023\002\105\123\061\101\060\077\006
\003\125\004\012\023\070\101\147\145\156\143\151\141\040\116\157
\164\141\162\151\141\154\040\144\145\040\103\145\162\164\151\146
\151\143\141\143\151\157\156\040\123\056\114\056\125\056\040\055
\040\103\111\106\040\102\070\063\063\071\065\071\070\070\061\052
\060\050\006\003\125\004\003\023\041\101\116\103\105\122\124\040
\103\145\162\164\151\146\151\143\141\144\157\163\040\116\157\164
\141\162\151\141\154\145\163\040\126\062\060\202\002\042\060\015
\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\002
\017\000\060\202\002\012\002\202\002\001\000\262\346\271\306\035
\152\052\055\111\305\374\374\324\144\100\320\340\024\056\367\240
\302\377\222\363\101\246\264\077\332\276\031\024\221\224\166\323
\025\314\136\177\170\120\172\333\332\305\105\252\313\034\043\171

\163\220\250\273\147\001\163\216\316\100\371\032\251\252\207\344
\223\222\017\134\150\134\136\360\006\140\053\130\334\074\155\074
\307\172\060\153\005\252\222\206\163\052\322\362\032\210\304\333
\345\132\146\216\165\311\102\077\233\210\050\100\036\365\251\134
\036\372\310\101\241\060\253\013\234\356\026\242\301\055\245\205
\372\355\240\014\350\177\226\112\173\275\217\232\242\030\166\322
\257\335\267\075\020\253\122\020\210\256\035\353\270\062\164\226
\364\267\252\047\367\245\007\015\343\224\127\152\124\040\167\315
\035\274\171\055\344\234\264\336\121\210\376\126\326\075\213\241
\317\372\122\036\214\005\163\167\326\005\317\143\000\121\207\141
\343\120\276\231\227\341\374\036\021\171\153\116\152\317\234\205
\012\034\226\052\300\040\066\024\305\011\027\142\073\364\255\352
\325\327\375\320\071\052\170\323\320\242\317\310\163\060\011\107
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\135\114\353\067\040\343\360\365\163\063\073\302\374\216\121\205
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\115\126\277\177\135\004\325\255\050\133\115\275\363\303\017\025
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\252\224\120\272\275\000\060\120\365\335\244\116\011\172\224\061
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\337\242\114\355\366\017\036\246\111\260\015\121\263\061\261\121
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\340\122\074\073\160\270\000\323\067\250\076\133\036\166\010\132
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\341\277\320\066\224\057\074\301\122\323\151\352\032\140\067\214
\200\333\115\155\306\232\135\215\240\141\121\273\075\015\346\022
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\216\204\037\332\041\014\111\210\103\323\245\365\202\015\166\206
\303\054\314\220\273\263\270\253\306\313\256\300\027\121\236\323
\200\367\044\332\034\354\316\022\203\316\116\066\060\071\165\370
\164\166\220\202\236\076\100\114\014\024\271\032\036\110\152\260
\061\352\210\177\200\101\100\123\173\070\113\207\220\140\172\113
\316\147\106\150\165\167\216\000\135\040\260\344\223\067\155\003
\337\130\071\350\232\305\244\353\354\141\063\010\205\044\153\117
\006\351\255\220\245\066\142\154\343\335\175\011\037\063\277\267
\273\367\311\165\005\367\133\253\372\207\131\257\032\147\020\176
\204\334\214\160\326\104\351\020\301\330\233\056\321\306\100\152
\352\346\132\017\020\175\154\373\125\207\272\115\265\161\003\236
\027\217\170\332\125\075\127\136\042\012\152\230\360\215\010\315
\335\226\102\132\033\315\272\157\047\270\164\047\250\077\345\240
\326\163\307\136\057\041
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "ANCERT Certificados Notariales V2"

```
# Issuer: CN=ANCERT Certificados Notariales V2,O=Agencia Notarial de Certificacion S.L.U. - CIF
B83395988,C=ES
# Serial Number:09:bd:56:05:2a:13:16:f4:68:4f:74:0e:a9:7d:1c:48
# Subject: CN=ANCERT Certificados Notariales V2,O=Agencia Notarial de Certificacion S.L.U. - CIF
B83395988,C=ES
# Not Valid Before: Tue May 25 16:56:14 2010
# Not Valid After: Sat May 25 16:56:14 2030
# Fingerprint (MD5): 75:70:cb:6e:6b:d6:9b:7d:90:bb:69:5e:59:f0:62:b4
# Fingerprint (SHA1): 6f:62:de:b8:6c:85:58:5a:e4:2e:47:8d:b4:d7:6d:b3:67:58:5a:e6
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN
 CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ANCERT Certificados Notariales V2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\157\142\336\270\154\205\130\132\344\056\107\215\264\327\155\263
\147\130\132\346
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\165\160\313\156\153\326\233\175\220\273\151\136\131\360\142\264
END
CKA_ISSUER MULTILINE_OCTAL
\060\174\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\101\060\077\006\003\125\004\012\023\070\101\147\145\156\143\151
\141\040\116\157\164\141\162\151\141\154\040\144\145\040\103\145
\162\164\151\146\151\143\141\143\151\157\156\040\123\056\114\056
\125\056\040\055\040\103\111\106\040\102\070\063\063\071\065\071
\070\070\061\052\060\050\006\003\125\004\003\023\041\101\116\103
\105\122\124\040\103\145\162\164\151\146\151\143\141\144\157\163
\040\116\157\164\141\162\151\141\154\145\163\040\126\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\011\275\126\005\052\023\026\364\150\117\164\016\251\175
\034\110
END
CKA_TRUST_SERVER_AUTH
 CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "ANCERT Certificados CGN V2"
# Issuer: CN=ANCERT Certificados CGN V2,O=Agencia Notarial de Certificacion S.L.U. - CIF B83395988,C=ES
# Serial Number:0f:38:8c:70:fe:a6:95:5d:e9:5d:9c:87:af:79:04:99
# Subject: CN=ANCERT Certificados CGN V2,O=Agencia Notarial de Certificacion S.L.U. - CIF
B83395988,C=ES
```

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# Not Valid Before: Tue May 25 16:31:22 2010
# Not Valid After: Sat May 25 16:31:23 2030
# Fingerprint (MD5): 92:45:af:c3:89:71:e6:87:1d:8e:5a:20:a6:33:0e:93
# Fingerprint (SHA1): 7e:b1:a0:42:9b:e5:f4:28:ac:2b:93:97:1d:7c:84:48:a5:36:07:0c
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ANCERT Certificados
 CGN V2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\165\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\101\060\077\006\003\125\004\012\023\070\101\147\145\156\143\151
\141\040\116\157\164\141\162\151\141\154\040\144\145\040\103\145
\162\164\151\146\151\143\141\143\151\157\156\040\123\056\114\056
\125\056\040\055\040\103\111\106\040\102\070\063\063\071\065\071
\070\070\061\043\060\041\006\003\125\004\003\023\032\101\116\103
\105\122\124\040\103\145\162\164\151\146\151\143\141\144\157\163
\040\103\107\116\040\126\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\165\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\101\060\077\006\003\125\004\012\023\070\101\147\145\156\143\151
\141\040\116\157\164\141\162\151\141\154\040\144\145\040\103\145
\162\164\151\146\151\143\141\143\151\157\156\040\123\056\114\056
\125\056\040\055\040\103\111\106\040\102\070\063\063\071\065\071
\070\070\061\043\060\041\006\003\125\004\003\023\032\101\116\103
\105\122\124\040\103\145\162\164\151\146\151\143\141\144\157\163
\040\103\107\116\040\126\062
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
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\004\231
END
CKA_VALUE MULTILINE_OCTAL
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\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\165
\061\013\060\011\006\003\125\004\006\023\002\105\123\061\101\060
\077\006\003\125\004\012\023\070\101\147\145\156\143\151\141\040
\116\157\164\141\162\151\141\154\040\144\145\040\103\145\162\164
\151\146\151\143\141\143\151\157\156\040\123\056\114\056\125\056
\040\055\040\103\111\106\040\102\070\063\063\071\065\071\070\070
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\040\123\056\114\056\125\056\040\055\040\103\111\106\040\102\070
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\032\016\312\313\363\144\145\053\054\231\243\227\213\213\165\060
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\112\274\365\166\371\177\052\031\110\353\335\016\317\231\126\105
\270\175\326\011\216\016\316\263\204\150\111\204\124\065\113\344
\231\033\257\363\250\024\363\124\230\012\200\176\117\274\362\146
\055\046\377\060\215\247\366\275\333\232\217\345\341\337\273\267
\062\016\371\222\157\151\343\344\166\323\000\066\361\055\136\307
\023\137\325\331\152\055\350\321\033\153\166\313\030\156\016\005

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\020\365\132\362\111\033\131\264\205\352\312\031\164\314\273\122
\342\067\214\302\152\002\045\302\322\161\244\222\333\216\311\326
\251\156\320\205\050\155\134\155\010\170\002\260\171\014\127\157
\013\132\001\343\204\204\002\366\317\362\253\143\353\002\152\271
\313\112\030\325\071\042\074\126\112\252\225\210\346\060\000\037
\215\041\041\311\127\356\271\267\104\051\210\117\266\053\247\024
\356\216\356\157\276\026\320\023
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Trust for "ANCERT Certificados CGN V2"
# Issuer: CN=ANCERT Certificados CGN V2,O=Agencia Notarial de Certificacion S.L.U. - CIF B83395988,C=ES
# Serial Number:0f:38:8c:70:fe:a6:95:5d:e9:5d:9c:87:af:79:04:99
# Subject: CN=ANCERT Certificados CGN V2,O=Agencia
 Notarial de Certificacion S.L.U. - CIF B83395988,C=ES
# Not Valid Before: Tue May 25 16:31:22 2010
# Not Valid After: Sat May 25 16:31:23 2030
# Fingerprint (MD5): 92:45:af:c3:89:71:e6:87:1d:8e:5a:20:a6:33:0e:93
# Fingerprint (SHA1): 7e:b1:a0:42:9b:e5:f4:28:ac:2b:93:97:1d:7c:84:48:a5:36:07:0c
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ANCERT Certificados CGN V2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\176\261\240\102\233\345\364\050\254\053\223\227\035\174\204\110
\245\066\007\014
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\222\105\257\303\211\161\346\207\035\216\132\040\246\063\016\223
END
CKA_ISSUER MULTILINE_OCTAL
\060\165\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\101\060\077\006\003\125\004\012\023\070\101\147\145\156\143\151
\141\040\116\157\164\141\162\151\141\154\040\144\145\040\103\145
\162\164\151\146\151\143\141\143\151\157\156\040\123\056\114\056
\125\056\040\055\040\103\111\106\040\102\070\063\063\071\065\071
\070\070\061\043\060\041\006\003\125\004\003\023\032\101\116\103
\105\122\124\040\103\145\162\164\151\146\151\143\141\144\157\163
\040\103\107\116\040\126\062
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\017\070\214\160\376\246\225\135\351\135\234\207\257\171
```

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\004\231
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "EE Certification Centre Root CA"
# Issuer: 1.2.840.113549.1.9.1=pki@sk.ee,CN=EE Certification Centre Root CA,O=AS
Sertifitseerimiskeskus,C=EE
# Serial Number:54:80:f9:a0:73:ed:3f:00:4c:ca:89:d8:e3:71:e6:4a
# Subject: 1.2.840.113549.1.9.1=pki@sk.ee,CN=EE Certification Centre Root CA,O=AS
Sertifitseerimiskeskus,C=EE
# Not Valid Before: Sat Oct 30 10:10:30 2010
# Not Valid After: Tue Dec 17
 23:59:59 2030
# Fingerprint (MD5): 43:5e:88:d4:7d:1a:4a:7e:fd:84:2e:52:eb:01:d4:6f
# Fingerprint (SHA1): c9:a8:b9:e7:55:80:5e:58:e3:53:77:a7:25:eb:af:c3:7b:27:cc:d7
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "EE Certification Centre Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\165\061\013\060\011\006\003\125\004\006\023\002\105\105\061
\042\060\040\006\003\125\004\012\014\031\101\123\040\123\145\162
\164\151\146\151\164\163\145\145\162\151\155\151\163\153\145\163
\153\165\163\061\050\060\046\006\003\125\004\003\014\037\105\105
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\103
\145\156\164\162\145\040\122\157\157\164\040\103\101\061\030\060
\026\006\011\052\206\110\206\367\015\001\011\001\026\011\160\153
\151\100\163\153\056\145\145
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\165\061\013\060\011\006\003\125\004\006\023\002\105\105\061
\042\060\040\006\003\125\004\012\014\031\101\123\040\123\145\162
\164\151\146\151\164\163\145\145\162\151\155\151\163\153\145\163
\153\165\163\061\050\060\046\006\003\125\004\003\014\037\105\105
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\103
\145\156\164\162\145\040\122\157\157\164\040\103\101\061\030\060
\026\006\011\052\206\110\206\367\015\001\011\001\026\011\160\153
\151\100\163\153\056\145\145
END
CKA_SERIAL_NUMBER
```

MULTILINE_OCTAL
\002\020\124\200\371\240\163\355\077\000\114\312\211\330\343\161
\346\112
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\003\060\202\002\353\240\003\002\001\002\002\020\124
\200\371\240\163\355\077\000\114\312\211\330\343\161\346\112\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\165
\061\013\060\011\006\003\125\004\006\023\002\105\105\061\042\060
\040\006\003\125\004\012\014\031\101\123\040\123\145\162\164\151
\146\151\164\163\145\145\162\151\155\151\163\153\145\163\153\165
\163\061\050\060\046\006\003\125\004\003\014\037\105\105\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\103\145\156
\164\162\145\040\122\157\157\164\040\103\101\061\030\060\026\006
\011\052\206\110\206\367\015\001\011\001\026\011\160\153\151\100
\163\153\056\145\145\060\042\030\017\062\060\061\060\061\060\063
\060\061\060\061\060\063\060\132\030\017\062\060\063\060\061\062
\061\067\062\063\065\071\065\071\132\060\165\061\013\060\011\006
\003\125\004\006\023\002\105\105\061\042\060\040\006\003\125\004
\012\014\031\101\123\040\123\145\162\164\151\146\151\164\163\145
\145\162\151\155\151\163\153\145\163\153\165\163\061\050\060\046
\006\003\125\004\003\014\037\105\105\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\103\145\156\164\162\145\040\122
\157\157\164\040\103\101\061\030\060\026\006\011\052\206\110\206
\367\015\001\011\001\026\011\160\153\151\100\163\153\056\145\145
\060\202\001\042\060\015\006\011\052\206\110\206\367\015\001\001
\001\005\000\003\202\001\017\000\060\202\001\012\002\202\001\001
\000\310\040\300\354\340\305\113\253\007\170\225\363\104\356\373
\013\014\377\164\216\141\273\261\142\352\043\330\253\241\145\062
\172\353\216\027\117\226\330\012\173\221\242\143\154\307\214\114
\056\171\277\251\005\374\151\134\225\215\142\371\271\160\355\303
\121\175\320\223\346\154\353\060\113\341\274\175\277\122\233\316
\156\173\145\362\070\261\300\242\062\357\142\262\150\340\141\123
\301\066\225\377\354\224\272\066\256\234\034\247\062\017\345\174
\264\306\157\164\375\173\030\350\254\127\355\006\040\113\062\060
\130\133\375\315\250\346\241\374\160\274\216\222\163\333\227\247
\174\041\256\075\301\365\110\207\154\047\275\237\045\164\201\125
\260\367\165\366\075\244\144\153\326\117\347\316\100\255\017\335
\062\323\274\212\022\123\230\311\211\373\020\035\115\176\315\176
\037\126\015\041\160\205\366\040\203\037\366\272\037\004\217\352
\167\210\065\304\377\352\116\241\213\115\077\143\033\104\303\104
\324\045\166\312\267\215\327\036\112\146\144\315\134\305\234\203
\341\302\010\210\232\354\116\243\361\076\034\054\331\154\035\241
\113\002\003\001\000\001\243\201\212\060\201\207\060\017\006\003
\125\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006
\003\125\035\017\001\001\377\004\004\003\002\001\006\060\035\006
\003\125\035\016\004\026\004\024\022\362\132\076\352\126\034\277
\315\006\254\361\361\045\311\251\113\324\024\231\060\105\006\003

\125\035\045\004\076\060\074\006\010\053\006\001\005\005\007\003
\002\006\010\053\006\001\005\005\007\003\001\006\010\053\006\001
\005\005\007\003\003\006\010\053\006\001\005\005\007\003\004\006
\010\053\006\001\005\005\007\003\010\006\010\053\006\001\005\005
\007\003\011\060\015\006\011\052\206\110\206\367\015\001\001\005
\005\000\003\202\001\001\000\173\366\344\300\015\252\031\107\267
\115\127\243\376\255\273\261\152\325\017\236\333\344\143\305\216
\241\120\126\223\226\270\070\300\044\042\146\274\123\024\141\225
\277\320\307\052\226\071\077\175\050\263\020\100\041\152\304\257
\260\122\167\030\341\226\330\126\135\343\335\066\136\035\247\120
\124\240\305\052\344\252\214\224\212\117\235\065\377\166\244\006
\023\221\242\242\175\000\104\077\125\323\202\074\032\325\133\274
\126\114\042\056\106\103\212\044\100\055\363\022\270\073\160\032
\244\226\271\032\257\207\101\032\152\030\015\006\117\307\076\156
\271\051\115\015\111\211\021\207\062\133\346\113\004\310\344\134
\346\164\163\224\135\026\230\023\225\376\373\333\261\104\345\072
\160\254\067\153\346\263\063\162\050\311\263\127\240\366\002\026
\210\006\013\266\246\113\040\050\324\336\075\213\255\067\005\123
\164\376\156\314\274\103\027\161\136\371\305\314\032\251\141\356
\367\166\014\363\162\364\162\255\317\162\002\066\007\107\317\357
\031\120\211\140\314\351\044\225\017\302\313\035\362\157\166\220
\307\314\165\301\226\305\235
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "EE Certification Centre Root CA"
#
Issuer: 1.2.840.113549.1.9.1=pki@sk.ee,CN=EE Certification Centre Root CA,O=AS Sertifitseerimiskeskus,C=EE
Serial Number:54:80:f9:a0:73:ed:3f:00:4c:ca:89:d8:e3:71:e6:4a
Subject: 1.2.840.113549.1.9.1=pki@sk.ee,CN=EE Certification Centre Root CA,O=AS
Sertifitseerimiskeskus,C=EE
Not Valid Before: Sat Oct 30 10:10:30 2010
Not Valid After: Tue Dec 17 23:59:59 2030
Fingerprint (MD5): 43:5e:88:d4:7d:1a:4a:7e:fd:84:2e:52:eb:01:d4:6f
Fingerprint (SHA1): c9:a8:b9:e7:55:80:5e:58:e3:53:77:a7:25:eb:af:c3:7b:27:cc:d7
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "EE Certification Centre Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\311\250\271\347\125\200\136\130\343\123\167\247\045\353\257\303
\173\047\314\327
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\103\136\210\324\175\032\112\176\375\204\056\122\353\001\324\157
END
CKA_ISSUER MULTILINE_OCTAL
\060\165\061\013\060\011\006\003\125\004\006\023\002\105\105\061
\042\060\040\006\003\125\004\012\014\031\101\123\040\123\145\162
\164\151\146\151\164\163\145\145\162\151\155\151\163\153\145\163
\153\165\163\061\050\060\046\006\003\125\004\003\014\037\105\105
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\103
\145\156\164\162\145\040\122\157\157\164\040\103\101\061\030\060
\026\006\011\052\206\110\206\367\015\001\011\001\026\011\160\153
\151\100\163\153\056\145\145
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\124\200\371\240\163\355\077\000\114\312\211\330\343\161
\346\112
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Autoridad de Certificacion Raiz del Estado Venezolano"
Issuer: 1.2.840.113549.1.9.1=acraiz@suscerte.gob.ve,OU=Superintendencia de Servicios de Certificacion Electronica,O=Sistema
Nacional de Certificacion Electronica,ST=Distrito Capital,L=Caracas,C=VE,CN=Autoridad de Certificacion Raiz del Estado Venezolano
Serial Number: 10 (0xa)
Subject: 1.2.840.113549.1.9.1=acraiz@suscerte.gob.ve,OU=Superintendencia de Servicios de Certificacion Electronica,O=Sistema Nacional de Certificacion Electronica,ST=Distrito Capital,L=Caracas,C=VE,CN=Autoridad de Certificacion Raiz del Estado Venezolano
Not Valid Before: Tue Dec 28 16:41:36 2010
Not Valid After: Mon Dec 23 23:59:59 2030
Fingerprint (MD5): 96:14:69:08:a8:36:59:d7:a0:35:14:89:58:50:5b:ab
Fingerprint (SHA1): 39:8e:be:9c:0f:46:c0:79:c3:c7:af:e0:7a:2f:dd:9f:ae:5f:8a:5c
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridad de Certificacion Raiz del Estado Venezolano"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\202\001\036\061\076\060\074\006\003\125\004\003\023\065\101
\165\164\157\162\151\144\141\144\040\144\145\040\103\145\162\164
\151\146\151\143\141\143\151\157\156\040\122\141\151\172\040\144
\145\154\040\105\163\164\141\144\157\040\126\145\156\145\172\157

\154\141\156\157\061\013\060\011\006\003\125\004\006\023\002\126
\105\061\020\060\016\006\003\125\004\007\023\007\103\141\162\141
\143\141\163\061\031\060\027\006\003\125\004\010\023\020\104\151
\163\164\162\151\164\157\040\103\141\160\151\164\141\154\061\066
\060\064\006\003\125\004\012\023\055\123\151\163\164\145\155\141
\040\116\141\143\151\157\156\141\154\040\144\145\040\103\145\162
\164\151\146\151\143\141\143\151\157\156\040\105\154\145\143\164
\162\157\156\151\143\141\061\103\060\101\006\003\125\004\013\023
\072\123\165\160\145\162\151\156\164\145\156\144\145\156\143\151
\141\040\144\145\040\123\145\162\166\151\143\151\157\163\040\144
\145\040\103\145\162\164\151\146\151\143\141\143\151\157\156\040
\105\154\145\143\164\162\157\156\151\143\141\061\045\060\043\006
\011\052\206\110\206\367\015\001\011\001\026\026\141\143\162\141
\151\172\100\163\165\163\143\145\162\164\145\056\147\157\142\056
\166\145
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\202\001\036\061\076\060\074\006\003\125\004\003\023\065\101
\165\164\157\162\151\144\141\144\040\144\145\040\103\145\162\164
\151\146\151\143\141\143\151\157\156\040\122\141\151\172\040\144
\145\154\040\105\163\164\141\144\157\040\126\145\156\145\172\157
\154\141\156\157\061\013\060\011\006\003\125\004\006\023\002\126
\105\061\020\060\016\006\003\125\004\007\023\007\103\141\162\141
\143\141\163\061\031\060\027\006\003\125\004\010\023\020\104\151
\163\164\162\151\164\157\040\103\141\160\151\164\141\154\061\066
\060\064\006\003\125\004\012\023\055\123\151\163\164\145\155\141
\040\116\141\143\151\157\156\141\154\040\144\145\040\103\145\162
\164\151\146\151\143\141\143\151\157\156\040\105\154\145\143\164
\162\157\156\151\143\141\061\103\060\101\006\003\125\004\013\023
\072\123\165\160\145\162\151\156\164\145\156\144\145\156\143\151
\141\040\144\145\040\123\145\162\166\151\143\151\157\163\040\144
\145\040\103\145\162\164\151\146\151\143\141\143\151\157\156\040
\105\154\145\143\164\162\157\156\151\143\141\061\045\060\043\006
\011\052\206\110\206\367\015\001\011\001\026\026\141\143\162\141
\151\172\100\163\165\163\143\145\162\164\145\056\147\157\142\056
\166\145
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\001\012
END
CKA_VALUE MULTILINE_OCTAL
\060\202\011\230\060\202\007\200\240\003\002\001\002\002\001\012
\060\015\006\011\052\206\110\206\367\015\001\001\014\005\000\060
\202\001\036\061\076\060\074\006\003\125\004\003\023\065\101\165
\164\157\162\151\144\141\144\040\144\145\040\103\145\162\164\151

\146\151\143\141\143\151\157\156\040\122\141\151\172\040\144\145
\154\040\105\163\164\141\144\157\040\126\145\156\145\172\157\154
\141\156\157\061\013\060\011\006\003\125\004\006\023\002\126\105
\061\020\060\016\006\003\125\004\007\023\007\103\141\162\141\143
\141\163\061\031\060\027\006\003\125\004\010\023\020\104\151\163
\164\162\151\164\157\040\103\141\160\151\164\141\154\061\066\060
\064\006\003\125\004\012\023\055\123\151\163\164\145\155\141\040
\116\141\143\151\157\156\141\154\040\144\145\040\103\145\162\164
\151\146\151\143\141\143\151\157\156\040\105\154\145\143\164\162
\157\156\151\143\141\061\103\060\101\006\003\125\004\013\023\072
\123\165\160\145\162\151\156\164\145\156\144\145\156\143\151\141
\040\144\145\040\123\145\162\166\151\143\151\157\163\040\144\145
\040\103\145\162\164\151\146\151\143\141\143\151\157\156\040\105
\154\145\143\164\162\157\156\151\143\141\061\045\060\043\006\011
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END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Autoridad de Certificacion Raiz del Estado Venezolano"
Issuer: 1.2.840.113549.1.9.1=acraiz@suscerte.gob.ve,OU=Superintendencia de Servicios de Certificacion Electronica,O=Sistema Nacional de Certificacion Electronica,ST=Distrito Capital,L=Caracas,C=VE,CN=Autoridad de Certificacion Raiz del Estado Venezolano
Serial Number: 10 (0xa)
Subject: 1.2.840.113549.1.9.1=acraiz@suscerte.gob.ve,OU=Superintendencia de Servicios de Certificacion Electronica,O=Sistema Nacional de Certificacion Electronica,ST=Distrito Capital,L=Caracas,C=VE,CN=Autoridad de Certificacion Raiz del Estado Venezolano
Not Valid Before: Tue Dec 28 16:41:36 2010
Not Valid After: Mon Dec 23 23:59:59 2030
Fingerprint (MD5): 96:14:69:08:a8:36:59:d7:a0:35:14:89:58:50:5b:ab
Fingerprint (SHA1): 39:8e:be:9c:0f:46:c0:79:c3:c7:af:e0:7a:2f:dd:9f:ae:5f:8a:5c
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridad de Certificacion Raiz del Estado Venezolano"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\071\216\276\234\017\106\300\171\303\307\257\340\172\057\335\237
\256\137\212\134
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\226\024\151\010\250\066\131\327\240\065\024\211\130\120\133\253
END
CKA_ISSUER MULTILINE_OCTAL
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\151\146\151\143\141\143\151\157\156\040\122\141\151\172\040\144
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\143\141\163\061\031\060\027\006\003\125\004\010\023\020\104\151
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\060\064\006\003\125\004\012\023\055\123\151\163\164\145\155\141
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\011\052\206\110\206\367\015\001\011\001\026\026\141\143\162\141
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\166\145
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\001\012
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "China Internet Network Information Center EV Certificates Root"
# Issuer: CN=China Internet Network Information Center EV Certificates Root,O=China Internet Network
Information Center,C=CN
# Serial Number:48:9f:00:01
# Subject: CN=China Internet Network Information Center EV Certificates Root,O=China Internet Network
Information Center,C=CN
# Not Valid Before: Tue Aug 31 07:11:25 2010
# Not Valid After: Sat Aug 31 07:11:25 2030
# Fingerprint (MD5): 55:5d:63:00:97:bd:6a:97:f5:67:ab:4b:fb:6e:63:15
# Fingerprint (SHA1): 4f:99:aa:93:fb:2b:d1:37:26:a1:99:4a:ce:7f:f0:05:f2:93:5d:1e
CKA_CLASS
 CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "China Internet Network Information Center EV Certificates Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\212\061\013\060\011\006\003\125\004\006\023\002\103\116
\061\062\060\060\006\003\125\004\012\014\051\103\150\151\156\141
\040\111\156\164\145\162\156\145\164\040\116\145\164\167\157\162
\153\040\111\156\146\157\162\155\141\164\151\157\156\040\103\145
\156\164\145\162\061\107\060\105\006\003\125\004\003\014\076\103
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\164\167\157\162\153\040\111\156\146\157\162\155\141\164\151\157
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END
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CKA_ID UTF8 "0"
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\061\062\060\060\006\003\125\004\012\014\051\103\150\151\156\141
\040\111\156\164\145\162\156\145\164\040\116\145\164\167\157\162
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\156\164\145\162\061\107\060\105\006\003\125\004\003\014\076\103
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END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\004\110\237\000\001
END
CKA_VALUE MULTILINE_OCTAL
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\005\000\060\201\212\061\013\060\011\006\003\125\004\006\023\002
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\027\015\063\060\060\070\063\061\060\067\061\061\062\065\132\060
\201\212\061\013\060\011\006\003\125\004\006\023\002\103\116\061
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\233\372\164\353\150\271\040\225\367\306\017\215\107\254\132\006
\335\141\253\342\354\330\237\027\055\234\312\074\065\227\125\161
\315\103\205\261\107\026\365\054\123\200\166\317\323\000\144\275

\100\231\335\314\330\333\304\237\326\023\137\101\203\213\371\015
\207\222\126\064\154\032\020\013\027\325\132\034\227\130\204\074
\204\032\056\134\221\064\156\031\137\177\027\151\305\145\357\153
\041\306\325\120\072\277\141\271\005\215\357\157\064\072\262\157
\024\143\277\026\073\233\251\052\375\267\053\070\146\006\305\054
\342\252\147\036\105\247\215\004\146\102\366\217\053\357\210\040
\151\217\062\214\024\163\332\053\206\221\143\042\232\362\247\333
\316\211\213\253\135\307\024\301\133\060\152\037\261\267\236\056
\201\001\002\355\317\226\136\143\333\250\346\070\267\002\003\001
\000\001\243\143\060\141\060\037\006\003\125\035\043\004\030\060
\026\200\024\174\162\113\071\307\300\333\142\245\117\233\252\030
\064\222\242\312\203\202\131\060\017\006\003\125\035\023\001\001
\377\004\005\060\003\001\001\377\060\016\006\003\125\035\017\001
\001\377\004\004\003\002\001\006\060\035\006\003\125\035\016\004
\026\004\024\174\162\113\071\307\300\333\142\245\117\233\252\030
\064\222\242\312\203\202\131\060\015\006\011\052\206\110\206\367
\015\001\001\005\005\000\003\202\001\001\000\052\303\307\103\067
\217\335\255\244\262\014\356\334\024\155\217\050\244\230\111\313
\014\200\352\363\355\043\146\165\175\305\323\041\147\171\321\163
\305\265\003\267\130\254\014\124\057\306\126\023\017\061\332\006
\347\145\073\035\157\066\333\310\035\371\375\200\006\312\243\075
\146\026\250\235\114\026\175\300\225\106\265\121\344\342\037\327
\352\006\115\143\215\226\214\357\347\063\127\102\072\353\214\301
\171\310\115\166\175\336\366\261\267\201\340\240\371\241\170\106
\027\032\126\230\360\116\075\253\034\355\354\071\334\007\110\367
\143\376\006\256\302\244\134\152\133\062\210\305\307\063\205\254
\146\102\107\302\130\044\231\341\345\076\345\165\054\216\103\326
\135\074\170\036\250\225\202\051\120\321\321\026\272\357\301\276
\172\331\264\330\314\036\114\106\341\167\261\061\253\275\052\310
\316\217\156\241\135\177\003\165\064\344\255\211\105\124\136\276
\256\050\245\273\077\170\171\353\163\263\012\015\375\276\311\367
\126\254\366\267\355\057\233\041\051\307\070\266\225\304\004\362
\303\055\375\024\052\220\231\271\007\314\237
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Trust for "China Internet Network Information Center EV Certificates Root"
# Issuer:
CN=China Internet Network Information Center EV Certificates Root,O=China Internet Network Information Center,C=CN
# Serial Number:48:9f:00:01
# Subject: CN=China Internet Network Information Center EV Certificates Root,O=China Internet Network Information Center,C=CN
# Not Valid Before: Tue Aug 31 07:11:25 2010

```
# Not Valid After: Sat Aug 31 07:11:25 2030
# Fingerprint (MD5): 55:5d:63:00:97:bd:6a:97:f5:67:ab:4b:fb:6e:63:15
# Fingerprint (SHA1): 4f:99:aa:93:fb:2b:d1:37:26:a1:99:4a:ce:7f:f0:05:f2:93:5d:1e
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "China Internet Network Information Center EV Certificates Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\117\231\252\223\373\053\321\067\046\241\231\112\316\177\360\005
\362\223\135\036
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\125\135\143\000\227\275\152\227\365\147\253\113\373\156\143\025
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\212\061\013\060\011\006\003\125\004\006\023\002\103\116
\061\062\060\060\006\003\125\004\012\014\051\103\150\151\156\141
\040\111\156\164\145\162\156\145\164\040\116\145\164\167\157\162
\153\040\111\156\146\157\162\155\141\164\151\157\156\040\103\145
\156\164\145\162\061\107\060\105\006\003\125\004\003\014\076\103
\150\151\156\141\040\111\156\164\145\162\156\145\164\040\116\145
\164\167\157\162\153\040\111\156\146\157\162\155\141\164\151\157
\156\040\103\145\156\164\145\162\040\105\126\040\103\145\162\164
\151\146\151\143\141\164\145\163\040\122\157\157\164
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\004\110\237\000\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Verizon Global Root CA"
# Issuer: CN=Verizon Global Root CA,OU=OmniRoot,O=Verizon Business,C=US
# Serial Number:
 1 (0x1)
# Subject: CN=Verizon Global Root CA,OU=OmniRoot,O=Verizon Business,C=US
# Not Valid Before: Thu Jul 30 14:27:04 2009
# Not Valid After: Sun Jul 30 14:27:04 2034
# Fingerprint (MD5): f4:c3:f3:e9:53:c2:94:65:27:3d:52:89:f1:8e:5b:1c
# Fingerprint (SHA1): 91:21:98:ee:f2:3d:ca:c4:09:39:31:2f:ee:97:dd:56:0b:ae:49:b1
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
```

CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Verizon Global Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\134\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\031\060\027\006\003\125\004\012\014\020\126\145\162\151\172\157
\156\040\102\165\163\151\156\145\163\163\061\021\060\017\006\003
\125\004\013\014\010\117\155\156\151\122\157\157\164\061\037\060
\035\006\003\125\004\003\014\026\126\145\162\151\172\157\156\040
\107\154\157\142\141\154\040\122\157\157\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\134\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\031\060\027\006\003\125\004\012\014\020\126\145\162\151\172\157
\156\040\102\165\163\151\156\145\163\163\061\021\060\017\006\003
\125\004\013\014\010\117\155\156\151\122\157\157\164\061\037\060
\035\006\003\125\004\003\014\026\126\145\162\151\172\157\156\040
\107\154\157\142\141\154\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\165\060\202\002\135\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\134\061\013\060\011\006\003\125\004\006\023\002\125\123\061\031
\060\027\006\003\125\004\012\014\020\126\145\162\151\172\157\156
\040\102\165\163\151\156\145\163\163\061\021\060\017\006\003\125
\004\013\014\010\117\155\156\151\122\157\157\164\061\037\060\035
\006\003\125\004\003\014\026\126\145\162\151\172\157\156\040\107
\154\157\142\141\154\040\122\157\157\164\040\103\101\060\036\027
\015\060\071\060\067\063\060\061\064\062\067\060\064\132\027\015
\063\064\060\067\063\060\061\064\062\067\060\064\132\060\134\061
\013\060\011\006\003\125\004\006\023\002\125\123\061\031\060\027
\006\003\125\004\012\014\020\126\145\162\151\172\157\156\040\102
\165\163\151\156\145\163\163\061\021\060\017\006\003\125\004\013
\014\010\117\155\156\151\122\157\157\164\061\037\060\035\006\003
\125\004\003\014\026\126\145\162\151\172\157\156\040\107\154\157
\142\141\154\040\122\157\157\164\040\103\101\060\202\001\042\060
\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202
\001\017\000\060\202\001\012\002\202\001\001\000\212\000\014\160
\035\277\353\064\206\303\231\105\065\036\177\103\367\253\157\044
\055\315\031\302\020\273\260\312\051\133\251\040\253\253\162\054
\304\342\002\071\155\202\270\305\021\352\370\373\263\236\142\370
\063\036\260\037\311\343\366\067\333\004\310\073\143\117\066\342
\205\244\045\035\307\151\037\004\275\150\105\023\226\007\037\224

\120\365\076\305\047\124\236\300\111\127\104\216\007\143\324\246
\256\355\042\231\314\115\226\151\004\023\156\166\211\237\164\026
\224\371\035\124\275\242\271\322\203\001\042\014\115\104\200\252
\376\065\211\047\045\247\206\211\306\325\032\222\343\217\305\225
\240\024\162\232\350\126\305\002\125\034\227\371\040\056\320\365
\074\023\031\132\366\341\371\013\003\202\151\247\214\267\326\157
\234\126\076\235\350\052\011\140\155\113\346\373\213\231\024\367
\064\117\145\131\200\215\271\127\310\242\065\041\330\210\161\126
\135\356\202\127\055\046\220\030\237\232\234\234\217\357\324\305
\143\247\124\175\107\221\207\175\032\022\250\033\030\157\251\157
\261\047\272\344\004\164\316\067\036\177\146\305\002\003\001\000
\001\243\102\060\100\060\017\006\003\125\035\023\001\001\377\004
\005\060\003\001\001\377\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\006\060\035\006\003\125\035\016\004\026\004
\024\114\070\021\270\230\000\133\132\053\160\076\252\170\344\325
\147\147\147\247\176\060\015\006\011\052\206\110\206\367\015\001
\001\013\005\000\003\202\001\001\000\001\137\240\261\006\001\364
\171\327\145\030\140\076\317\171\240\272\302\043\117\043\337\207
\226\137\201\016\070\025\056\134\310\002\150\051\040\374\213\356
\245\212\030\201\144\134\230\065\176\071\060\202\244\202\212\120
\265\272\303\350\132\326\250\236\342\303\027\333\333\304\353\260
\012\040\015\351\236\343\377\140\124\107\361\073\235\324\050\074
\242\256\243\373\252\213\202\042\052\065\207\220\270\034\131\107
\220\325\235\056\372\111\343\145\250\066\353\307\344\034\150\334
\263\061\154\253\116\316\044\200\025\310\020\131\020\021\162\115
\172\234\230\234\304\374\141\340\263\262\235\116\240\306\302\131
\253\030\326\242\125\105\354\051\252\045\067\326\116\112\075\013
\100\301\344\223\344\374\315\221\013\370\346\253\314\263\166\304
\142\277\031\355\206\266\171\303\051\124\124\274\231\175\106\127
\317\246\317\364\124\052\232\003\145\107\001\241\102\052\313\045
\107\156\174\136\000\113\221\331\371\033\020\006\160\371\102\025
\246\137\252\327\100\036\375\311\110\235\227\201\352\134\150\302
\240\347\211\241\123\115\277\307\343
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Verizon Global Root CA"
Issuer: CN=Verizon Global Root CA,OU=OmniRoot,O=Verizon Business,C=US
Serial Number: 1 (0x1)
Subject: CN=Verizon Global Root CA,OU=OmniRoot,O=Verizon Business,C=US
Not Valid Before: Thu Jul 30 14:27:04 2009
Not Valid After: Sun Jul 30 14:27:04 2034
Fingerprint (MD5): f4:c3:f3:e9:53:c2:94:65:27:3d:52:89:f1:8e:5b:1c
Fingerprint (SHA1): 91:21:98:ee:f2:3d:ca:c4:09:39:31:2f:ee:97:dd:56:0b:ae:49:b1

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CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Verizon Global Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\221\041\230\356\362\075\312\304\011\071\061\057\356\227\335\126
\013\256\111\261
END
CKA_CERT_MD5_HASH
 MULTILINE_OCTAL
\364\303\363\351\123\302\224\145\047\075\122\211\361\216\133\034
END
CKA_ISSUER MULTILINE_OCTAL
\060\134\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\031\060\027\006\003\125\004\012\014\020\126\145\162\151\172\157
\156\040\102\165\163\151\156\145\163\163\061\021\060\017\006\003
\125\004\013\014\010\117\155\156\151\122\157\157\164\061\037\060
\035\006\003\125\004\003\014\026\126\145\162\151\172\157\156\040
\107\154\157\142\141\154\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "SwissSign Silver Root CA - G3"
# Issuer: CN=SwissSign Silver Root CA - G3,O=SwissSign AG,C=CH
# Serial Number:aa:88:b0:5a:0b:b1:76:9b
# Subject: CN=SwissSign
 Silver Root CA - G3,O=SwissSign AG,C=CH
# Not Valid Before: Tue Aug 04 13:19:14 2009
# Not Valid After: Tue Aug 04 13:19:14 2037
# Fingerprint (MD5): 40:e4:e0:25:6e:96:e0:01:a1:c8:4c:43:4c:f9:dc:33
# Fingerprint (SHA1): 8d:08:fc:43:c0:77:0c:a8:4f:4d:cc:b2:d4:1a:5d:95:6d:78:6d:c4
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Silver Root CA - G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\114\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
```

\151\147\156\040\101\107\061\046\060\044\006\003\125\004\003\023
\035\123\167\151\163\163\123\151\147\156\040\123\151\154\166\145
\162\040\122\157\157\164\040\103\101\040\055\040\107\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\114\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\046\060\044\006\003\125\004\003\023
\035\123\167\151\163\163\123\151\147\156\040\123\151\154\166\145
\162\040\122\157\157\164\040\103\101\040\055\040\107\063
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\011\000\252\210\260\132\013\261\166\233
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\176\060\202\003\146\240\003\002\001\002\002\011\000
\252\210\260\132\013\261\166\233\060\015\006\011\052\206\110\206
\367\015\001\001\013\005\000\060\114\061\013\060\011\006\003\125
\004\006\023\002\103\110\061\025\060\023\006\003\125\004\012\023
\014\123\167\151\163\163\123\151\147\156\040\101\107\061\046\060
\044\006\003\125\004\003\023\035\123\167\151\163\163\123\151\147
\156\040\123\151\154\166\145\162\040\122\157\157\164\040\103\101
\040\055\040\107\063\060\036\027\015\060\071\060\070\060\064\061
\063\061\071\061\064\132\027\015\063\067\060\070\060\064\061\063
\061\071\061\064\132\060\114\061\013\060\011\006\003\125\004\006
\023\002\103\110\061\025\060\023\006\003\125\004\012\023\014\123
\167\151\163\163\123\151\147\156\040\101\107\061\046\060\044\006
\003\125\004\003\023\035\123\167\151\163\163\123\151\147\156\040
\123\151\154\166\145\162\040\122\157\157\164\040\103\101\040\055
\040\107\063\060\202\002\042\060\015\006\011\052\206\110\206\367
\015\001\001\001\005\000\003\202\002\017\000\060\202\002\012\002
\202\002\001\000\276\207\233\005\346\161\174\122\157\155\354\067
\251\351\263\334\314\137\177\323\120\352\041\233\004\360\075\277
\276\216\311\245\024\026\062\020\317\231\374\354\160\255\110\066
\147\044\014\027\062\326\051\345\112\071\261\067\353\246\170\014
\154\157\031\312\116\367\121\332\032\350\372\041\070\154\225\234
\057\326\213\314\073\002\233\277\046\233\021\105\266\270\064\132
\035\246\124\110\122\310\235\170\161\316\110\112\314\247\170\203
\334\150\253\146\036\167\007\323\066\030\010\327\324\155\140\370
\360\171\323\063\066\011\222\143\267\004\232\365\247\226\332\105
\257\164\032\374\202\343\250\133\016\072\077\122\127\230\176\274
\234\214\301\300\262\132\337\304\176\376\014\246\124\166\203\176
\272\335\347\052\364\112\066\117\207\145\056\245\272\071\215\131
\141\051\363\323\216\044\160\214\123\233\021\245\107\007\262\165
\005\134\015\204\331\104\331\315\311\046\104\127\156\002\175\225
\001\324\253\044\206\356\075\160\373\127\372\260\051\024\320\235

\362\305\227\313\011\312\361\362\075\347\330\113\226\351\210\057
\236\107\121\212\124\145\230\110\322\022\344\124\167\014\007\346
\276\133\234\361\335\003\176\215\204\374\276\311\142\325\374\311
\072\350\211\265\137\302\005\122\141\360\234\076\354\056\115\214
\162\221\216\310\103\301\242\050\136\365\200\044\334\342\057\207
\073\123\000\345\313\360\262\174\215\171\031\240\210\315\170\370
\305\212\132\167\345\006\254\335\112\336\346\160\156\276\257\276
\365\261\253\016\010\260\333\240\077\224\305\276\022\271\274\173
\047\171\265\062\051\135\256\305\040\043\222\003\173\124\071\260
\211\042\124\155\022\343\303\170\352\072\100\375\244\223\254\351
\055\210\074\333\246\107\146\114\337\330\027\355\026\336\032\326
\327\101\146\277\035\200\361\244\340\144\021\051\136\014\047\005
\142\353\345\304\004\142\321\304\237\014\152\125\326\130\070\234
\146\017\235\373\253\124\200\231\234\354\111\326\202\237\332\105
\326\077\123\006\003\267\375\037\354\206\175\164\340\244\264\350
\062\266\252\007\043\370\357\044\101\236\143\060\170\364\124\335
\216\360\132\070\216\022\177\170\307\157\002\126\041\063\316\270
\270\255\151\125\002\003\001\000\001\243\143\060\141\060\016\006
\003\125\035\017\001\001\377\004\004\003\002\001\006\060\017\006
\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060\035
\006\003\125\035\016\004\026\004\024\241\214\105\223\012\022\143
\013\247\127\137\062\112\175\341\041\347\267\076\146\060\037\006
\003\125\035\043\004\030\060\026\200\024\241\214\105\223\012\022
\143\013\247\127\137\062\112\175\341\041\347\267\076\146\060\015
\006\011\052\206\110\206\367\015\001\001\013\005\000\003\202\002
\001\000\207\256\141\155\110\070\052\306\034\334\112\056\204\170
\111\300\043\052\105\270\065\115\321\005\372\271\005\063\304\144
\275\333\255\124\026\052\260\076\015\132\050\332\246\032\200\163
\014\304\101\157\257\270\064\266\167\324\133\216\035\013\213\106
\220\104\265\263\356\111\030\211\301\113\064\263\207\065\164\242
\236\105\147\355\105\161\146\266\271\241\045\163\327\302\254\210
\373\322\035\247\153\332\300\132\346\330\131\144\064\227\145\040
\061\063\003\117\316\255\011\236\256\351\302\076\030\165\264\063
\045\022\273\005\354\120\272\161\100\342\275\336\210\106\005\041
\204\213\243\053\036\353\060\060\211\277\021\365\134\104\370\221
\213\113\131\105\013\060\015\312\014\117\157\143\276\004\376\301
\355\340\207\376\310\315\126\277\345\334\216\172\324\326\051\116
\200\333\253\233\077\216\145\007\042\367\104\315\226\037\055\307
\365\011\266\230\160\377\070\334\120\025\021\204\073\177\251\360
\330\044\124\310\027\214\053\023\111\326\231\177\105\321\017\216
\277\151\162\067\123\007\364\346\256\375\133\076\171\271\006\315
\270\201\170\264\115\240\320\065\272\344\256\377\323\111\274\065
\355\143\306\263\374\343\253\141\132\005\266\013\344\377\251\052
\276\337\124\116\302\113\134\150\332\243\062\242\311\115\127\030
\123\064\131\074\146\231\327\074\002\170\247\114\161\320\277\333
\361\304\074\347\001\346\004\362\104\366\110\046\060\063\311\261
\001\031\353\002\361\314\041\372\072\002\060\027\235\310\137\200
\077\335\045\254\002\233\343\027\336\275\312\222\024\322\122\201

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\123\346\352\374\060\147\062\251\142\366\223\027\025\007\061\136
\017\033\151\365\364\251\267\174\055\263\355\204\104\062\107\050
\007\073\206\151\105\251\307\066\226\220\162\164\330\022\246\163
\043\321\116\271\266\172\072\304\051\241\120\006\021\271\331\364
\046\156\142\010\022\040\026\360\001\127\027\324\005\066\147\227
\353\121\371\377\063\044\014\005\017\126\277\357\075\034\122\216
\212\336\151\017\132\037\360\325\003\061\104\263\222\306\352\165
\250\256\273\307\140\003\210\230\377\307\004\204\122\220\206\341
\264\223\251\120\057\350\353\322\066\254\060\140\247\320\003\023
\265\012
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Trust for "SwissSign Silver Root CA - G3"
# Issuer: CN=SwissSign Silver Root CA - G3,O=SwissSign AG,C=CH
# Serial Number:aa:88:b0:5a:0b:b1:76:9b
# Subject: CN=SwissSign Silver Root CA - G3,O=SwissSign AG,C=CH
# Not Valid Before: Tue Aug 04 13:19:14 2009
# Not Valid After: Tue Aug 04 13:19:14 2037
# Fingerprint (MD5): 40:e4:e0:25:6e:96:e0:01:a1:c8:4c:43:4c:f9:dc:33
# Fingerprint (SHA1): 8d:08:fc:43:c0:77:0c:a8:4f:4d:cc:b2:d4:1a:5d:95:6d:78:6d:c4
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Silver Root CA - G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\215\010\374\103\300\167\014\250\117\115\314\262\324\032\135\225
\155\170\155\304
END
CKA_CERT_MD5_HASH
 MULTILINE_OCTAL
\100\344\340\045\156\226\340\001\241\310\114\103\114\371\334\063
END
CKA_ISSUER MULTILINE_OCTAL
\060\114\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\046\060\044\006\003\125\004\003\023
\035\123\167\151\163\163\123\151\147\156\040\123\151\154\166\145
\162\040\122\157\157\164\040\103\101\040\055\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\252\210\260\132\013\261\166\233
END
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CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "SwissSign Platinum Root CA - G3"
# Issuer: CN=SwissSign Platinum Root CA - G3,O=SwissSign AG,C=CH
# Serial Number:22:3f:a9:17:20:de:81:94
# Subject: CN=SwissSign Platinum Root CA
 - G3,O=SwissSign AG,C=CH
# Not Valid Before: Tue Aug 04 13:34:04 2009
# Not Valid After: Tue Aug 04 13:34:04 2037
# Fingerprint (MD5): 20:de:12:0b:a8:6e:d9:34:a8:4e:b2:0d:1e:a6:43:39
# Fingerprint (SHA1): a1:e7:c6:00:aa:41:70:e5:b7:4b:c9:4f:9b:97:03:ed:c2:61:b4:b9
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Platinum Root CA - G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\050\060\046\006\003\125\004\003\023
\037\123\167\151\163\163\123\151\147\156\040\120\154\141\164\151
\156\165\155\040\122\157\157\164\040\103\101\040\055\040\107\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\050\060\046\006\003\125\004\003\023
\037\123\167\151\163\163\123\151\147\156\040\120\154\141\164\151
\156\165\155\040\122\157\157\164\040\103\101\040\055\040\107\063
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\010\042\077\251\027\040\336\201\224
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\201\060\202\003\151\240\003\002\001\002\002\010\042
\077\251\027\040\336\201\224\060\015\006\011\052\206\110\206\367
\015\001\001\013\005\000\060\116\061\013\060\011\006\003\125\004
\006\023\002\103\110\061\025\060\023\006\003\125\004\012\023\014
\123\167\151\163\163\123\151\147\156\040\101\107\061\050\060\046
\006\003\125\004\003\023\037\123\167\151\163\163\123\151\147\156
\040\120\154\141\164\151\156\165\155\040\122\157\157\164\040\103
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\101\040\055\040\107\063\060\036\027\015\060\071\060\070\060\064
\061\063\063\064\060\064\132\027\015\063\067\060\070\060\064\061
\063\063\064\060\064\132\060\116\061\013\060\011\006\003\125\004
\006\023\002\103\110\061\025\060\023\006\003\125\004\012\023\014
\123\167\151\163\163\123\151\147\156\040\101\107\061\050\060\046
\006\003\125\004\003\023\037\123\167\151\163\163\123\151\147\156
\040\120\154\141\164\151\156\165\155\040\122\157\157\164\040\103
\101\040\055\040\107\063\060\202\002\042\060\015\006\011\052\206
\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202
\002\012\002\202\002\001\000\224\240\357\023\033\237\104\040\033
\315\305\252\042\273\331\362\122\076\172\132\130\167\346\215\241
\053\311\334\244\363\344\263\023\224\000\142\233\034\362\103\120
\103\201\176\257\060\066\111\254\030\211\014\030\105\270\076\307
\124\155\343\330\232\131\153\212\032\045\251\266\265\015\267\175
\043\360\137\175\250\007\251\367\076\206\056\310\001\115\334\346
\066\355\035\345\067\007\151\022\113\343\203\321\004\034\044\360
\037\160\161\347\031\355\163\110\156\225\053\025\266\126\346\002
\337\126\351\233\372\352\246\356\340\302\303\272\340\314\306\310
\173\327\157\072\225\233\072\217\276\133\054\322\251\240\070\076
\326\210\341\261\142\023\216\334\253\060\147\315\250\152\246\143
\053\202\260\313\307\075\116\355\162\366\175\253\062\116\145\002
\353\017\231\164\370\034\032\050\214\016\105\000\223\054\024\237
\155\307\033\236\366\212\334\173\170\343\264\224\107\035\115\005
\155\204\172\220\124\262\236\213\165\302\200\337\207\071\077\237
\373\110\124\007\215\240\051\365\371\140\137\132\162\350\273\233
\240\102\340\010\000\064\243\025\074\023\343\326\032\153\002\262
\224\041\243\235\101\274\052\153\116\063\073\246\224\070\374\075
\307\053\063\263\056\053\006\164\254\233\020\157\305\116\105\367
\135\241\126\003\054\015\137\172\275\036\336\035\167\220\153\332
\245\055\212\114\351\337\101\364\347\113\354\175\225\102\237\114
\251\011\017\103\210\077\075\223\347\053\364\172\110\332\150\304
\335\022\200\061\032\135\044\124\046\246\044\041\263\114\255\332
\027\010\066\002\127\306\234\206\160\311\165\311\236\174\141\330
\170\346\271\350\024\151\371\034\020\050\022\135\113\165\120\272
\074\320\147\160\125\125\126\113\373\075\034\330\333\171\115\227
\337\270\236\333\027\054\325\065\007\270\120\251\367\216\367\126
\377\172\147\103\117\040\331\312\146\326\070\140\113\356\224\061
\326\015\242\110\233\377\064\151\224\306\065\365\226\210\357\252
\146\314\201\246\353\114\123\377\062\164\247\266\235\230\127\264
\272\046\251\361\063\063\142\176\072\260\003\021\127\377\334\157
\021\043\255\076\306\012\320\314\124\267\055\302\223\035\345\302
\246\214\307\330\357\123\367\002\003\001\000\001\243\143\060\141
\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001
\377\060\035\006\003\125\035\016\004\026\004\024\126\052\077\220
\130\364\027\132\024\262\327\010\033\205\133\124\152\124\032\050
\060\037\006\003\125\035\043\004\030\060\026\200\024\126\052\077
\220\130\364\027\132\024\262\327\010\033\205\133\124\152\124\032

\050\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000
\003\202\002\001\000\154\355\212\347\103\250\171\047\233\270\317
\207\076\144\070\030\214\021\102\222\206\067\340\130\303\033\356
\004\056\367\204\354\203\020\150\014\177\170\055\234\302\227\216
\066\116\026\330\016\352\153\110\255\117\236\135\015\314\015\251
\076\030\205\176\314\150\231\071\065\326\330\237\206\301\062\373
\115\145\263\042\024\113\310\205\146\332\027\377\161\221\254\234
\126\127\336\161\054\126\102\277\370\315\016\360\242\323\377\322
\042\025\373\320\170\012\176\341\260\132\316\216\067\333\251\236
\347\225\317\143\362\054\015\322\372\157\363\310\325\373\000\267
\367\065\147\020\323\173\122\354\020\062\370\277\335\136\311\246
\202\244\361\260\277\035\056\335\045\344\275\115\360\065\251\221
\001\107\370\020\002\224\133\353\076\353\015\272\325\035\143\054
\245\056\253\347\343\036\243\356\113\252\137\261\146\001\264\202
\132\371\106\113\307\361\370\337\054\276\375\165\335\226\070\232
\067\072\156\245\346\062\025\156\263\220\300\071\212\164\245\225
\240\276\015\056\211\171\315\051\126\216\303\136\127\121\304\005
\157\004\125\217\201\351\114\275\131\106\313\052\274\115\311\035
\362\306\117\005\344\310\004\015\367\156\117\332\303\072\234\322
\302\365\351\306\044\172\024\076\034\102\060\250\002\105\061\251
\374\120\251\334\334\206\070\017\133\223\077\177\010\116\152\015
\047\072\020\171\126\303\025\270\076\006\206\366\331\160\147\257
\165\172\213\342\130\314\306\165\117\062\125\305\154\024\011\050
\073\362\225\344\152\336\054\050\007\255\240\175\007\050\335\324
\132\243\351\246\174\023\214\231\013\122\170\333\331\321\337\076
\132\103\166\177\106\140\123\302\315\347\166\107\174\125\315\264
\071\144\020\133\225\113\065\135\104\203\044\325\340\056\044\014
\301\200\156\151\000\200\006\167\012\146\202\020\014\121\157\067
\211\127\333\363\114\345\270\271\356\043\146\227\140\267\122\335
\331\226\373\272\212\073\240\115\316\136\360\104\114\220\314\041
\117\033\072\230\153\216\061\203\371\203\010\122\313\031\301\065
\153\356\241\025\133\210\077\155\254\362\064\222\123\246\060\052
\023\327\346\206\250\135\331\102\322\307\235\251\172\213\313\337
\356\242\061\302\345
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "SwissSign Platinum Root CA - G3"
Issuer: CN=SwissSign Platinum Root CA - G3,O=SwissSign AG,C=CH
Serial Number:22:3f:a9:17:20:de:81:94
Subject: CN=SwissSign Platinum Root CA - G3,O=SwissSign AG,C=CH
Not Valid Before: Tue Aug 04 13:34:04 2009
Not Valid After: Tue Aug 04 13:34:04 2037
Fingerprint (MD5): 20:de:12:0b:a8:6e:d9:34:a8:4e:b2:0d:1e:a6:43:39

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# Fingerprint (SHA1): a1:e7:c6:00:aa:41:70:e5:b7:4b:c9:4f:9b:97:03:ed:c2:61:b4:b9
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Platinum Root CA - G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\241\347\306\000\252\101\160\345\267\113\311\117\233\227\003\355
\302\141\264\271
END
CKA_CERT_MD5_HASH
 MULTILINE_OCTAL
\040\336\022\013\250\156\331\064\250\116\262\015\036\246\103\071
END
CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\050\060\046\006\003\125\004\003\023
\037\123\167\151\163\163\123\151\147\156\040\120\154\141\164\151
\156\165\155\040\122\157\157\164\040\103\101\040\055\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\042\077\251\027\040\336\201\224
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "SwissSign Gold Root CA - G3"
# Issuer: CN=SwissSign Gold Root CA - G3,O=SwissSign AG,C=CH
# Serial Number:de:c4:f2:44:f3:1d:a6:fc
# Subject: CN=SwissSign Gold Root CA
 - G3,O=SwissSign AG,C=CH
# Not Valid Before: Tue Aug 04 13:31:47 2009
# Not Valid After: Tue Aug 04 13:31:47 2037
# Fingerprint (MD5): c2:64:4c:e2:7d:eb:6c:7b:ec:36:e0:39:df:68:9c:67
# Fingerprint (SHA1): 0b:71:99:a1:c7:f3:ad:df:7b:a7:ea:b8:eb:57:4a:e8:0d:60:dd:de
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Gold Root CA - G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\112\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
```

\151\147\156\040\101\107\061\044\060\042\006\003\125\004\003\023
\033\123\167\151\163\163\123\151\147\156\040\107\157\154\144\040
\122\157\157\164\040\103\101\040\055\040\107\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\112\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\044\060\042\006\003\125\004\003\023
\033\123\167\151\163\163\123\151\147\156\040\107\157\154\144\040
\122\157\157\164\040\103\101\040\055\040\107\063
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\011\000\336\304\362\104\363\035\246\374
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\172\060\202\003\142\240\003\002\001\002\002\011\000
\336\304\362\104\363\035\246\374\060\015\006\011\052\206\110\206
\367\015\001\001\013\005\000\060\112\061\013\060\011\006\003\125
\004\006\023\002\103\110\061\025\060\023\006\003\125\004\012\023
\014\123\167\151\163\163\123\151\147\156\040\101\107\061\044\060
\042\006\003\125\004\003\023\033\123\167\151\163\163\123\151\147
\156\040\107\157\154\144\040\122\157\157\164\040\103\101\040\055
\040\107\063\060\036\027\015\060\071\060\070\060\064\061\063\063
\061\064\067\132\027\015\063\067\060\070\060\064\061\063\063\061
\064\067\132\060\112\061\013\060\011\006\003\125\004\006\023\002
\103\110\061\025\060\023\006\003\125\004\012\023\014\123\167\151
\163\163\123\151\147\156\040\101\107\061\044\060\042\006\003\125
\004\003\023\033\123\167\151\163\163\123\151\147\156\040\107\157
\154\144\040\122\157\157\164\040\103\101\040\055\040\107\063\060
\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001
\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001\000
\303\350\237\310\145\132\235\147\033\301\105\227\264\264\207\103
\133\141\140\200\236\362\177\136\371\147\104\335\104\372\253\265
\253\167\377\052\031\114\316\157\304\217\101\237\340\342\315\162
\340\321\324\122\141\101\011\012\277\012\160\373\340\203\151\141
\051\312\333\042\232\133\245\346\335\027\225\260\157\204\216\072
\076\144\132\101\373\033\130\374\375\053\076\262\244\346\254\311
\202\274\316\366\225\370\227\167\355\046\366\130\256\236\047\342
\017\203\354\305\066\130\310\173\317\325\207\241\251\207\032\023
\147\141\001\155\246\151\234\342\220\361\053\150\145\363\350\260
\174\374\202\075\336\255\330\012\000\011\104\171\023\234\360\376
\156\165\173\302\274\263\131\001\013\174\305\325\055\360\277\377
\155\127\322\111\201\353\264\263\120\254\133\371\013\025\025\214
\151\377\243\071\001\355\374\334\334\047\227\216\173\213\325\152
\246\326\340\035\137\315\001\221\346\365\042\230\272\056\011\030
\070\157\023\250\201\322\373\041\067\347\055\264\142\347\201\220

\260\306\171\131\267\147\165\376\276\217\073\372\066\354\257\255
\322\117\164\066\001\345\127\253\043\004\314\112\136\227\317\176
\306\357\214\314\225\043\151\215\313\070\307\031\366\326\212\000
\024\036\064\075\157\332\014\013\303\272\227\374\021\113\122\141
\076\277\063\147\123\020\277\170\033\011\302\107\272\036\257\130
\365\165\201\177\275\126\361\353\126\327\331\151\014\007\351\067
\061\260\022\034\062\357\126\331\276\172\053\174\275\323\075\274
\152\063\115\072\074\120\020\207\047\307\172\012\147\123\333\177
\200\233\350\236\043\372\371\010\072\213\241\216\064\132\110\063
\137\144\323\227\206\007\031\175\210\224\316\052\174\305\152\337
\257\274\251\237\315\072\246\272\273\124\371\177\217\337\317\016
\132\304\255\232\274\263\072\167\163\203\114\223\074\220\150\265
\174\120\225\021\310\202\136\224\161\320\101\030\373\311\306\145
\354\316\211\266\316\042\263\021\133\077\340\235\076\033\030\150
\015\252\003\241\147\131\277\153\235\274\370\362\145\057\232\101
\072\105\330\136\320\066\154\157\073\036\143\264\216\230\114\023
\333\041\016\237\173\355\352\240\252\161\303\353\243\240\322\045
\002\003\001\000\001\243\143\060\141\060\016\006\003\125\035\017
\001\001\377\004\004\003\002\001\006\060\017\006\003\125\035\023
\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125\035
\016\004\026\004\024\134\227\006\106\064\253\337\060\305\174\305
\015\125\161\146\060\265\140\217\236\060\037\006\003\125\035\043
\004\030\060\026\200\024\134\227\006\106\064\253\337\060\305\174
\305\015\125\161\146\060\265\140\217\236\060\015\006\011\052\206
\110\206\367\015\001\001\013\005\000\003\202\002\001\000\167\113
\115\336\352\205\112\253\054\047\326\105\307\361\137\040\301\133
\140\355\007\313\242\063\334\066\317\307\224\361\006\307\325\332
\317\315\255\204\076\377\022\110\177\101\350\245\146\127\060\304
\035\344\247\032\057\055\102\301\357\106\163\262\325\365\132\375
\016\172\153\322\310\061\243\015\110\226\127\145\143\125\030\300
\374\344\212\314\230\206\133\253\014\212\047\067\372\043\150\131
\134\046\327\241\301\302\271\116\054\377\051\136\346\224\013\276
\315\162\117\225\350\217\366\367\270\076\136\316\317\236\021\311
\254\003\051\110\212\251\266\246\064\271\254\100\377\304\266\163
\067\261\307\177\251\121\333\113\052\107\137\100\044\007\210\006
\267\044\263\373\177\367\260\213\063\372\277\043\165\243\134\376
\252\145\032\302\276\361\175\201\167\003\201\261\215\327\225\015
\172\074\102\230\267\217\251\175\120\341\337\122\006\232\240\122
\124\170\203\007\141\122\011\067\136\212\234\247\306\121\321\134
\143\321\204\334\302\333\322\372\133\030\066\175\146\274\324\050
\227\057\165\226\034\204\007\254\213\216\123\021\276\044\041\252
\147\362\301\255\210\234\323\260\170\147\170\365\323\130\003\040
\012\135\040\361\265\347\145\314\016\040\343\325\337\346\057\031
\053\205\150\301\004\046\317\217\355\005\123\241\335\007\016\353
\101\046\307\264\251\054\133\343\151\075\146\300\142\033\300\252
\206\300\067\303\061\004\206\160\071\276\153\137\041\100\101\240
\177\345\331\017\070\113\160\137\111\370\205\270\053\056\252\037
\223\101\103\370\373\262\164\074\037\113\127\133\267\324\121\241

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\222\112\316\276\020\242\356\330\024\042\173\271\101\275\215\351
\210\251\321\217\003\032\140\377\077\207\211\240\231\047\042\146
\260\076\150\236\162\210\121\070\235\023\076\105\155\005\345\106
\265\163\355\103\206\261\024\012\036\274\332\015\277\036\044\134
\146\217\016\276\241\375\306\353\151\274\103\171\327\003\166\371
\334\207\231\270\230\304\315\177\155\020\371\020\276\054\102\376
\234\051\115\203\153\012\275\265\216\304\110\212\375\041\007\246
\200\175\037\233\351\253\275\202\141\104\012\161\047\137\155\233
\220\236\256\377\066\044\263\150\003\326\225\214\153\163
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Trust for "SwissSign Gold Root CA - G3"
# Issuer: CN=SwissSign Gold Root CA - G3,O=SwissSign AG,C=CH
# Serial Number:de:c4:f2:44:f3:1d:a6:fc
# Subject: CN=SwissSign Gold Root CA - G3,O=SwissSign AG,C=CH
# Not Valid Before: Tue Aug 04 13:31:47 2009
# Not Valid After: Tue Aug 04 13:31:47 2037
# Fingerprint (MD5): c2:64:4c:e2:7d:eb:6c:7b:ec:36:e0:39:df:68:9c:67
# Fingerprint (SHA1): 0b:71:99:a1:c7:f3:ad:df:7b:a7:ea:b8:eb:57:4a:e8:0d:60:dd:de
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Gold Root CA - G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\013\161\231\241\307\363\255\337\173\247\352\270\353\127\112\350
\015\140\335\336
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\302\144\114\342\175\353\154\173\354\066\340\071\337\150\234\147
END
CKA_ISSUER
 MULTILINE_OCTAL
\060\112\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\044\060\042\006\003\125\004\003\023
\033\123\167\151\163\163\123\151\147\156\040\107\157\154\144\040
\122\157\157\164\040\103\101\040\055\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\336\304\362\104\363\035\246\374
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
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CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "SITHS CA v3"
# Issuer: CN=SITHS CA v3,O=Carelink,C=SE
# Serial Number:1b:d4:0e:d4:34:d1:da:15:a6:00:30:15:02:4d:a4:6c
# Subject: CN=SITHS CA v3,O=Carelink,C=SE
# Not Valid Before: Mon Nov 28 10:27:50 2005
# Not Valid After: Sat Nov 28 06:02:38 2015
# Fingerprint
 (MD5): 51:c6:bb:37:df:2c:7b:55:0f:84:d4:f3:68:5a:be:eb
# Fingerprint (SHA1): 16:d8:66:35:af:13:41:cd:34:79:94:45:eb:60:3e:27:37:02:96:5d
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SITHS CA v3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\066\061\013\060\011\006\003\125\004\006\023\002\123\105\061
\021\060\017\006\003\125\004\012\014\010\103\141\162\145\154\151
\156\153\061\024\060\022\006\003\125\004\003\014\013\123\111\124
\110\123\040\103\101\040\166\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\066\061\013\060\011\006\003\125\004\006\023\002\123\105\061
\021\060\017\006\003\125\004\012\014\010\103\141\162\145\154\151
\156\153\061\024\060\022\006\003\125\004\003\014\013\123\111\124
\110\123\040\103\101\040\166\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\033\324\016\324\064\321\332\025\246\000\060\025\002\115
\244\154
END
CKA_VALUE
 MULTILINE_OCTAL
\060\202\003\141\060\202\002\111\240\003\002\001\002\002\020\033
\324\016\324\064\321\332\025\246\000\060\025\002\115\244\154\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\066
\061\013\060\011\006\003\125\004\006\023\002\123\105\061\021\060
\017\006\003\125\004\012\014\010\103\141\162\145\154\151\156\153
\061\024\060\022\006\003\125\004\003\014\013\123\111\124\110\123
\040\103\101\040\166\063\060\036\027\015\060\065\061\061\062\070
\061\060\062\067\065\060\132\027\015\061\065\061\061\062\070\060
\066\060\062\063\070\132\060\066\061\013\060\011\006\003\125\004
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\006\023\002\123\105\061\021\060\017\006\003\125\004\012\014\010
\103\141\162\145\154\151\156\153\061\024\060\022\006\003\125\004
\003\014\013\123\111\124\110\123\040\103\101\040\166\063\060\202
\001\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005
\000\003\202\001\017\000\060\202\001\012\002\202\001\001\000\305
\331\133\321\324\053\177\100\147\356\241\133\135\321\332\152\271
\031\061\362\360\046\111\001\145\374\101\124\361\226\221\354\052
\356\004\104\044\036\100\234\347\027\120\077\352\034\174\356\270
\067\071\374\307\323\257\233\156\135\337\076\276\005\374\352\312
\331\371\105\126\341\225\234\261\320\132\217\376\310\052\246\327
\152\154\340\155\135\354\134\166\376\341\231\107\232\251\173\247
\352\346\157\124\002\047\115\121\116\050\075\254\006\072\201\202
\246\034\275\113\244\355\122\022\334\212\052\353\047\364\301\042
\112\020\204\132\165\265\200\042\126\145\353\314\200\362\245\341
\144\276\174\336\017\275\047\007\114\051\133\252\261\357\264\173
\377\207\064\350\243\223\102\313\075\140\273\167\323\302\057\136
\024\370\163\157\244\177\240\234\001\325\325\251\273\014\127\217
\314\300\073\221\170\236\222\071\171\062\114\104\177\307\013\175
\336\372\314\176\332\314\336\015\324\146\266\142\246\063\277\154
\371\325\335\107\122\160\224\313\145\340\105\267\015\327\257\225
\110\327\101\243\073\040\120\015\074\024\125\223\314\352\015\002
\003\001\000\001\243\153\060\151\060\022\006\003\125\035\023\001
\001\377\004\010\060\006\001\001\377\002\001\000\060\021\006\011
\140\206\110\001\206\370\102\001\001\004\004\003\002\002\004\060
\024\006\003\125\035\040\004\015\060\013\060\011\006\007\052\205
\160\112\001\001\003\060\013\006\003\125\035\017\004\004\003\002
\001\006\060\035\006\003\125\035\016\004\026\004\024\174\056\071
\043\062\104\350\017\116\146\362\015\050\376\100\276\302\266\342
\240\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000
\003\202\001\001\000\010\123\132\210\051\015\365\124\330\253\261
\203\271\047\151\132\252\137\053\130\111\324\271\337\157\353\307
\006\353\375\207\232\277\312\022\337\172\236\001\042\045\143\122
\205\157\247\057\016\227\164\140\214\340\110\200\163\335\102\215
\041\355\017\162\177\164\006\156\120\126\073\055\207\354\201\130
\213\066\307\312\000\373\244\004\266\057\070\130\216\167\361\006
\304\055\054\047\055\030\202\013\212\137\042\224\024\025\143\070
\306\245\261\272\340\254\276\076\046\077\221\273\034\203\374\016
\312\311\067\276\067\327\360\173\363\214\330\274\220\013\364\000
\277\124\274\152\112\130\347\312\133\014\031\123\102\007\225\127
\065\270\117\226\123\232\250\230\335\116\175\125\264\234\343\272
\300\066\271\267\334\002\230\370\366\345\060\276\054\167\262\363
\311\342\002\243\346\367\104\174\326\152\177\320\170\276\071\163
\370\013\302\037\122\000\016\115\173\306\012\356\142\313\011\325
\017\012\060\207\202\223\274\312\021\244\037\011\372\372\067\120
\354\073\342\074\044\240\200\050\314\373\246\335\357\067\232\251
\061\335\337\352\121
END
CKA_NSS_MOZILLA_CA_POLICY

```
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Trust for "SITHS CA v3"
# Issuer: CN=SITHS CA v3,O=Carelink,C=SE
# Serial Number:1b:d4:0e:d4:34:d1:da:15:a6:00:30:15:02:4d:a4:6c
# Subject: CN=SITHS CA v3,O=Carelink,C=SE
# Not Valid Before: Mon Nov 28 10:27:50 2005
# Not Valid After: Sat Nov 28 06:02:38
 2015
# Fingerprint (MD5): 51:c6:bb:37:df:2c:7b:55:0f:84:d4:f3:68:5a:be:eb
# Fingerprint (SHA1): 16:d8:66:35:af:13:41:cd:34:79:94:45:eb:60:3e:27:37:02:96:5d
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SITHS CA v3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\026\330\146\065\257\023\101\315\064\171\224\105\353\140\076\047
\067\002\226\135
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\121\306\273\067\337\054\173\125\017\204\324\363\150\132\276\353
END
CKA_ISSUER MULTILINE_OCTAL
\060\066\061\013\060\011\006\003\125\004\006\023\002\123\105\061
\021\060\017\006\003\125\004\012\014\010\103\141\162\145\154\151
\156\153\061\024\060\022\006\003\125\004\003\014\013\123\111\124
\110\123\040\103\101\040\166\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\033\324\016\324\064\321\332\025\246\000\060\025\002\115
\244\154
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST
 CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Certinomis - Autorité Racine"
# Issuer: CN=Certinomis - Autorité Racine,OU=0002 433998903,O=Certinomis,C=FR
# Serial Number: 1 (0x1)
# Subject: CN=Certinomis - Autorité Racine,OU=0002 433998903,O=Certinomis,C=FR
# Not Valid Before: Wed Sep 17 08:28:59 2008
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# Not Valid After: Sun Sep 17 08:28:59 2028
# Fingerprint (MD5): 7f:30:78:8c:03:e3:ca:c9:0a:e2:c9:ea:1e:aa:55:1a
# Fingerprint (SHA1): 2e:14:da:ec:28:f0:fa:1e:8e:38:9a:4e:ab:eb:26:c0:0a:d3:83:c3
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certinomis - Autorité Racine"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\143\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\023\060\021\006\003\125\004\012\023\012\103\145\162\164\151\156
\157\155\151\163\061\027\060\025\006\003\125\004\013\023\016\060
\060\060\062\040\064\063\063\071\071\070\071\060\063\061\046\060
\044\006\003\125\004\003\014\035\103\145\162\164\151\156\157\155
\151\163\040\055\040\101\165\164\157\162\151\164\303\251\040\122
\141\143\151\156\145
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\143\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\023\060\021\006\003\125\004\012\023\012\103\145\162\164\151\156
\157\155\151\163\061\027\060\025\006\003\125\004\013\023\016\060
\060\060\062\040\064\063\063\071\071\070\071\060\063\061\046\060
\044\006\003\125\004\003\014\035\103\145\162\164\151\156\157\155
\151\163\040\055\040\101\165\164\157\162\151\164\303\251\040\122
\141\143\151\156\145
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\234\060\202\003\204\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\143\061\013\060\011\006\003\125\004\006\023\002\106\122\061\023
\060\021\006\003\125\004\012\023\012\103\145\162\164\151\156\157
\155\151\163\061\027\060\025\006\003\125\004\013\023\016\060\060
\060\062\040\064\063\063\071\071\070\071\060\063\061\046\060\044
\006\003\125\004\003\014\035\103\145\162\164\151\156\157\155\151
\163\040\055\040\101\165\164\157\162\151\164\303\251\040\122\141
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CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Certinomis - Autorité Racine"
Issuer: CN=Certinomis - Autorité Racine,OU=0002 433998903,O=Certinomis,C=FR
#
 Serial Number: 1 (0x1)
Subject: CN=Certinomis - Autorité Racine,OU=0002 433998903,O=Certinomis,C=FR
Not Valid Before: Wed Sep 17 08:28:59 2008
Not Valid After: Sun Sep 17 08:28:59 2028
Fingerprint (MD5): 7f:30:78:8c:03:e3:ca:c9:0a:e2:c9:ea:1e:aa:55:1a
Fingerprint (SHA1): 2e:14:da:ec:28:f0:fa:1e:8e:38:9a:4e:ab:eb:26:c0:0a:d3:83:c3
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certinomis - Autorité Racine"

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\012\323\203\303
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
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END
CKA_ISSUER MULTILINE_OCTAL
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\023\060\021\006\003\125\004\012\023\012\103\145\162\164\151\156
\157\155\151\163\061\027\060\025\006\003\125\004\013\023\016\060
\060\060\062\040\064\063\063\071\071\070\071\060\063\061\046\060
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CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
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END
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CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "ANF Server CA"
# Issuer: CN=ANF Server CA,2.5.4.5=G63287510,OU=ANF Clase 1 CA,O=ANF Autoridad de
Certificación,L=Barcelona (see current address at https://www.anf.es/address/),ST=Barcelona,C=ES
# Serial Number: 78923 (0x1344b)
# Subject: CN=ANF Server CA,2.5.4.5=G63287510,OU=ANF Clase 1 CA,O=ANF Autoridad de
Certificación,L=Barcelona (see current address at https://www.anf.es/address/),ST=Barcelona,C=ES
# Not Valid Before: Mon Nov 30 23:00:00 2009
# Not Valid After: Tue
 Nov 30 23:00:00 2021
# Fingerprint (MD5): 8c:18:ed:28:bf:45:19:e6:49:98:e1:35:22:2f:54:c6
# Fingerprint (SHA1): ce:a9:89:0d:85:d8:07:53:a6:26:28:6c:da:d7:8c:b5:66:d7:0c:f2
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ANF Server CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
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\154\157\156\141\061\107\060\105\006\003\125\004\007\014\076\102
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\106\123\145\162\166\145\162\103\101\056\143\162\154\060\026\006
\003\125\035\022\004\017\060\015\201\013\151\156\146\157\100\141
\156\146\056\145\163\060\026\006\003\125\035\021\004\017\060\015
\201\013\151\156\146\157\100\141\156\146\056\145\163\060\015\006
\011\052\206\110\206\367\015\001\001\005\005\000\003\202\001\001
\000\265\306\307\274\106\372\102\134\023\301\224\165\063\126\277
\057\247\007\163\354\067\343\103\164\352\371\146\117\136\215\177
\360\346\171\303\115\365\331\070\245\314\312\103\364\123\200\206
\277\274\320\021\135\220\304\302\100\107\353\305\207\223\301\266
\170\136\232\256\207\365\142\020\131\114\114\155\006\276\231\023
\025\263\263\372\034\162\176\340\042\041\001\130\065\070\150\242
\344\370\341\360\360\066\120\221\340\264\167\334\143\204\063\222
\140\270\313\026\362\322\143\073\114\134\065\072\347\254\002\123
\305\034\201\001\167\307\034\021\037\124\060\357\124\217\045\372
\211\047\224\064\243\017\024\117\157\351\163\331\030\142\347\356
\010\350\311\203\173\310\063\233\174\104\232\174\032\220\265\322
\161\211\337\075\364\034\117\116\121\340\311\153\266\252\013\036
\331\060\017\323\143\325\355\160\364\301\203\355\006\105\232\250
\352\264\211\067\375\132\067\107\357\221\171\247\065\377\360\334
\060\355\015\024\147\333\174\132\340\217\155\063\376\074\236\025
\063\303\303\055\016\135\252\174\015\216\061\226\115\213\377\005
\325
END
CKA_NSS_MOZILLA_CA_POLICY

```
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Trust for "ANF Server CA"
# Issuer: CN=ANF Server CA,2.5.4.5=G63287510,OU=ANF Clase 1 CA,O=ANF Autoridad de
Certificación,L=Barcelona (see current address at https://www.anf.es/address/),ST=Barcelona,C=ES
# Serial Number: 78923 (0x1344b)
# Subject: CN=ANF Server CA,2.5.4.5=G63287510,OU=ANF Clase 1 CA,O=ANF Autoridad de
Certificación,L=Barcelona (see current address at https://www.anf.es/address/),ST=Barcelona,C=ES
# Not Valid Before: Mon Nov 30 23:00:00 2009
# Not Valid After: Tue Nov 30 23:00:00 2021
# Fingerprint (MD5): 8c:18:ed:28:bf:45:19:e6:49:98:e1:35:22:2f:54:c6
#
 Fingerprint (SHA1): ce:a9:89:0d:85:d8:07:53:a6:26:28:6c:da:d7:8c:b5:66:d7:0c:f2
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ANF Server CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\316\251\211\015\205\330\007\123\246\046\050\154\332\327\214\265
\146\327\014\362
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\214\030\355\050\277\105\031\346\111\230\341\065\042\057\124\306
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\331\061\013\060\011\006\003\125\004\006\023\002\105\123
\061\022\060\020\006\003\125\004\010\014\011\102\141\162\143\145
\154\157\156\141\061\107\060\105\006\003\125\004\007\014\076\102
\141\162\143\145\154\157\156\141\040\050\163\145\145\040\143\165
\162\162\145\156\164\040\141\144\144\162\145\163\163\040\141\164
\040\150\164\164\160\163\072\057\057\167\167\167\056\141\156\146
\056\145\163\057\141\144\144\162\145\163\163\057\051\061\050\060
\046\006\003\125\004\012\014\037\101\116\106\040\101\165\164\157
\162\151\144\141\144\040\144\145\040\103\145\162\164\151\146\151
\143\141\143\151\303\263\156\061\027\060\025\006\003\125\004\013
\014\016\101\116\106\040\103\154\141\163\145\040\061\040\103\101
\061\022\060\020\006\003\125\004\005\023\011\107\066\063\062\070
\067\065\061\060\061\026\060\024\006\003\125\004\003\014\015\101
\116\106\040\123\145\162\166\145\162\040\103\101
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\003\001\064\113
END
```

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CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "KEYNECTIS ROOT CA"
# Issuer: CN=KEYNECTIS ROOT CA,OU=ROOT,O=KEYNECTIS,C=FR
# Serial Number:11:21:bc:27:6c:55:47:af:58:4e:ef:d4:ce:d6:29:b2:a2:85
# Subject: CN=KEYNECTIS ROOT CA,OU=ROOT,O=KEYNECTIS,C=FR
# Not Valid Before: Tue May 26 00:00:00 2009
# Not Valid After: Tue
 May 26 00:00:00 2020
# Fingerprint (MD5): cc:4d:ae:fb:30:6b:d8:38:fe:50:eb:86:61:4b:d2:26
# Fingerprint (SHA1): 9c:61:5c:4d:4d:85:10:3a:53:26:c2:4d:ba:ea:e4:a2:d2:d5:cc:97
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "KEYNECTIS ROOT CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\114\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\023\011\113\105\131\116\105\103
\124\111\123\061\015\060\013\006\003\125\004\013\023\004\122\117
\117\124\061\032\060\030\006\003\125\004\003\023\021\113\105\131
\116\105\103\124\111\123\040\122\117\117\124\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\114\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\023\011\113\105\131\116\105\103
\124\111\123\061\015\060\013\006\003\125\004\013\023\004\122\117
\117\124\061\032\060\030\006\003\125\004\003\023\021\113\105\131
\116\105\103\124\111\123\040\122\117\117\124\040\103\101
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\022\021\041\274\047\154\125\107\257\130\116\357\324\316\326
\051\262\242\205
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\345\060\202\002\315\240\003\002\001\002\002\022\021
\041\274\047\154\125\107\257\130\116\357\324\316\326\051\262\242
\205\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000
\060\114\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\023\011\113\105\131\116\105\103
\124\111\123\061\015\060\013\006\003\125\004\013\023\004\122\117
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\117\124\061\032\060\030\006\003\125\004\003\023\021\113\105\131
\116\105\103\124\111\123\040\122\117\117\124\040\103\101\060\036
\027\015\060\071\060\065\062\066\060\060\060\060\060\060\132\027
\015\062\060\060\065\062\066\060\060\060\060\060\060\132\060\114
\061\013\060\011\006\003\125\004\006\023\002\106\122\061\022\060
\020\006\003\125\004\012\023\011\113\105\131\116\105\103\124\111
\123\061\015\060\013\006\003\125\004\013\023\004\122\117\117\124
\061\032\060\030\006\003\125\004\003\023\021\113\105\131\116\105
\103\124\111\123\040\122\117\117\124\040\103\101\060\202\001\042
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\001\017\000\060\202\001\012\002\202\001\001\000\306\375\263
\027\205\241\255\046\033\225\151\065\041\075\244\210\372\336\333
\140\066\100\027\151\302\024\143\373\270\331\302\164\025\067\056
\234\320\040\315\151\215\204\062\242\205\114\024\264\233\362\045
\263\124\052\203\077\055\276\017\363\073\144\321\377\240\120\357
\167\117\073\116\341\077\013\144\205\232\272\130\176\322\303\142
\323\144\045\242\324\262\227\074\167\135\143\052\063\222\374\315
\202\015\233\124\225\207\365\265\353\214\315\133\321\312\060\057
\311\210\106\265\315\015\021\264\030\217\356\321\241\076\135\025
\350\050\317\337\303\220\233\154\314\321\014\105\167\263\072\353
\212\220\035\351\257\144\152\211\173\251\075\103\164\372\344\147
\042\241\373\334\115\304\365\142\311\312\045\264\311\200\140\063
\251\335\173\240\002\277\226\045\012\136\311\137\051\173\264\027
\201\213\155\201\031\320\331\203\134\005\217\101\151\032\151\103
\200\237\250\257\340\351\214\221\213\047\053\242\046\140\315\017
\362\244\243\002\203\216\030\201\302\027\212\103\025\371\155\363
\035\020\244\132\234\104\141\043\041\172\330\373\321\002\003\001
\000\001\243\201\300\060\201\275\060\022\006\003\125\035\023\001
\001\377\004\010\060\006\001\001\377\002\001\004\060\016\006\003
\125\035\017\001\001\377\004\004\003\002\001\006\060\127\006\003
\125\035\037\004\120\060\116\060\114\240\112\240\110\206\106\150
\164\164\160\072\057\057\164\162\165\163\164\143\145\156\164\145
\162\055\143\162\154\056\143\145\162\164\151\146\151\143\141\164
\062\056\143\157\155\057\113\145\171\156\145\143\164\151\163\057
\113\105\131\116\105\103\124\111\123\137\122\117\117\124\137\103
\101\056\143\162\154\060\035\006\003\125\035\016\004\026\004\024
\357\267\043\227\320\250\221\177\246\317\246\041\300\064\237\314
\167\101\341\320\060\037\006\003\125\035\043\004\030\060\026\200
\024\357\267\043\227\320\250\221\177\246\317\246\041\300\064\237
\314\167\101\341\320\060\015\006\011\052\206\110\206\367\015\001
\001\013\005\000\003\202\001\001\000\032\061\151\231\102\302\345
\100\205\242\237\222\303\143\324\217\041\071\250\031\041\376\172
\374\303\115\100\363\053\350\113\254\133\114\131\223\306\334\176
\013\257\174\137\225\205\153\275\307\157\272\301\276\370\306\072
\147\113\223\306\005\151\076\044\055\360\033\221\306\076\077\354
\102\030\223\154\003\044\212\156\371\040\147\053\174\155\253\064
\311\052\042\063\015\327\175\217\356\322\066\144\102\310\065\232
\156\031\141\313\215\147\360\150\247\320\044\005\346\303\027\272

\105\256\174\103\265\200\170\003\115\040\163\005\374\103\020\235
\065\151\102\165\224\045\202\053\246\073\220\030\336\301\251\257
\363\055\225\277\225\247\317\030\227\341\131\342\242\257\032\026
\141\015\367\023\161\123\223\067\375\074\257\000\035\154\213\024
\257\106\226\214\266\122\174\314\055\116\315\341\351\113\012\356
\232\376\172\230\347\051\272\033\332\034\272\334\153\315\004\016
\046\100\251\353\163\074\376\120\250\021\047\125\275\333\216\113
\357\117\030\355\025\377\275\206\230\146\356\232\045\161\064\154
\120\361\262\121\313\146\235\115\051
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "KEYNECTIS ROOT CA"
Issuer: CN=KEYNECTIS ROOT CA,OU=ROOT,O=KEYNECTIS,C=FR
Serial Number:11:21:bc:27:6c:55:47:af:58:4e:ef:d4:ce:d6:29:b2:a2:85
Subject: CN=KEYNECTIS ROOT CA,OU=ROOT,O=KEYNECTIS,C=FR
Not Valid Before: Tue May 26 00:00:00 2009
Not Valid After: Tue May 26 00:00:00 2020
Fingerprint (MD5): cc:4d:ae:fb:30:6b:d8:38:fe:50:eb:86:61:4b:d2:26
Fingerprint (SHA1): 9c:61:5c:4d:4d:85:10:3a:53:26:c2:4d:ba:ea:e4:a2:d2:d5:cc:97
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN
 CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "KEYNECTIS ROOT CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\234\141\134\115\115\205\020\072\123\046\302\115\272\352\344\242
\322\325\314\227
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\314\115\256\373\060\153\330\070\376\120\353\206\141\113\322\046
END
CKA_ISSUER MULTILINE_OCTAL
\060\114\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\023\011\113\105\131\116\105\103
\124\111\123\061\015\060\013\006\003\125\004\013\023\004\122\117
\117\124\061\032\060\030\006\003\125\004\003\023\021\113\105\131
\116\105\103\124\111\123\040\122\117\117\124\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\022\021\041\274\047\154\125\107\257\130\116\357\324\316\326
\051\262\242\205
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED
CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "I.CA - Standard Certification Authority, 09/2009"
Issuer: OU=I.CA - Provider of Certification Services,O=První certifikaní autorita\, a.s.,CN=I.CA - Standard Certification Authority\, 09/2009,C=CZ
Serial Number:16:e3:60
Subject: OU=I.CA - Provider of Certification Services,O=První certifikaní autorita\, a.s.,CN=I.CA - Standard Certification Authority\, 09/2009,C=CZ
Not Valid Before: Tue Sep 01 00:00:00 2009
Not Valid After: Sun Sep 01 00:00:00 2019
Fingerprint (MD5): 86:ef:8e:31:9d:9f:85:69:a2:a4:1a:12:71:68:ba:1b
Fingerprint (SHA1): 90:de:ce:77:f8:c8:25:34:0e:62:eb:d6:35:e1:be:20:cf:73:27:dd
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "I.CA - Standard Certification Authority, 09/2009"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\253\061\013\060\011\006\003\125\004\006\023\002\103\132
\061\071\060\067\006\003\125\004\003\014\060\111\056\103\101\040
\055\040\123\164\141\156\144\141\162\144\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\054\040\060\071\057\062\060\060\071\061\055\060\053\006
\003\125\004\012\014\044\120\162\166\156\303\255\040\143\145\162
\164\151\146\151\153\141\304\215\156\303\255\040\141\165\164\157
\162\151\164\141\054\040\141\056\163\056\061\062\060\060\006\003
\125\004\013\014\051\111\056\103\101\040\055\040\120\162\157\166
\151\144\145\162\040\157\146\040\103\145\162\164\151\146\151\143
\141\164\151\157\156\040\123\145\162\166\151\143\145\163
END
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\253\061\013\060\011\006\003\125\004\006\023\002\103\132
\061\071\060\067\006\003\125\004\003\014\060\111\056\103\101\040
\055\040\123\164\141\156\144\141\162\144\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\054\040\060\071\057\062\060\060\071\061\055\060\053\006
\003\125\004\012\014\044\120\162\166\156\303\255\040\143\145\162
\164\151\146\151\153\141\304\215\156\303\255\040\141\165\164\157
\162\151\164\141\054\040\141\056\163\056\061\062\060\060\006\003
\125\004\013\014\051\111\056\103\101\040\055\040\120\162\157\166

\151\144\145\162\040\157\146\040\103\145\162\164\151\146\151\143
\141\164\151\157\156\040\123\145\162\166\151\143\145\163
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\003\026\343\140
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\052\060\202\003\022\240\003\002\001\002\002\003\026
\343\140\060\015\006\011\052\206\110\206\367\015\001\001\013\005
\000\060\201\253\061\013\060\011\006\003\125\004\006\023\002\103
\132\061\071\060\067\006\003\125\004\003\014\060\111\056\103\101
\040\055\040\123\164\141\156\144\141\162\144\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171\054\040\060\071\057\062\060\060\071\061\055\060\053
\006\003\125\004\012\014\044\120\162\166\156\303\255\040\143\145
\162\164\151\146\151\153\141\304\215\156\303\255\040\141\165\164
\157\162\151\164\141\054\040\141\056\163\056\061\062\060\060\006
\003\125\004\013\014\051\111\056\103\101\040\055\040\120\162\157
\166\151\144\145\162\040\157\146\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\123\145\162\166\151\143\145\163\060
\036\027\015\060\071\060\071\060\061\060\060\060\060\060\060\132
\027\015\061\071\060\071\060\061\060\060\060\060\060\060\132\060
\201\253\061\013\060\011\006\003\125\004\006\023\002\103\132\061
\071\060\067\006\003\125\004\003\014\060\111\056\103\101\040\055
\040\123\164\141\156\144\141\162\144\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171\054\040\060\071\057\062\060\060\071\061\055\060\053\006\003
\125\004\012\014\044\120\162\166\156\303\255\040\143\145\162\164
\151\146\151\153\141\304\215\156\303\255\040\141\165\164\157\162
\151\164\141\054\040\141\056\163\056\061\062\060\060\006\003\125
\004\013\014\051\111\056\103\101\040\055\040\120\162\157\166\151
\144\145\162\040\157\146\040\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\123\145\162\166\151\143\145\163\060\202\001
\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000
\003\202\001\017\000\060\202\001\012\002\202\001\001\000\250\010
\126\022\077\373\224\203\251\140\166\275\105\203\176\226\064\074
\317\111\116\326\317\374\040\341\341\261\002\024\155\255\312\176
\120\162\051\251\375\234\167\046\070\144\367\103\101\077\024\202
\004\242\101\220\002\347\231\367\203\142\170\104\205\350\235\005
\160\324\376\170\241\164\064\307\254\073\205\002\335\356\121\133
\106\073\123\063\326\147\354\354\024\056\343\304\345\263\164\203
\000\314\306\226\346\034\203\332\334\030\120\151\372\335\103\321
\216\100\375\026\244\267\214\145\207\340\276\254\227\037\260\161
\353\000\145\127\026\316\154\207\257\227\210\360\135\367\207\115
\072\021\012\242\302\104\024\300\026\362\117\365\333\225\102\257
\051\263\051\240\203\121\156\376\074\121\127\223\060\045\046\272
\073\152\206\310\366\013\321\161\077\234\267\072\310\316\147\011

\214\372\100\033\172\154\336\310\034\240\306\134\273\141\030\210
\077\056\131\035\126\374\172\105\234\246\331\070\331\305\140\314
\271\101\125\267\312\274\115\356\264\247\304\366\240\016\274\211
\305\001\225\261\134\337\117\360\314\302\315\102\273\137\002\003
\001\000\001\243\125\060\123\060\017\006\003\125\035\023\001\001
\377\004\005\060\003\001\001\377\060\016\006\003\125\035\017\001
\001\377\004\004\003\002\001\006\060\021\006\003\125\035\040\004
\012\060\010\060\006\006\004\125\035\040\000\060\035\006\003\125
\035\016\004\026\004\024\301\114\070\224\325\200\206\110\331\042
\220\054\323\356\031\020\333\147\107\207\060\015\006\011\052\206
\110\206\367\015\001\001\013\005\000\003\202\001\001\000\243\313
\321\175\164\373\065\170\007\222\350\356\150\351\344\122\136\360
\330\143\221\224\237\150\373\276\133\272\251\341\143\167\253\120
\166\306\351\126\107\124\120\231\264\045\213\350\301\031\162\066
\132\011\276\347\326\372\302\266\062\075\107\303\120\116\231\156
\223\066\305\212\121\167\143\340\111\063\253\074\037\212\351\073
\331\206\265\050\307\302\165\161\133\146\152\215\130\016\363\165
\220\265\255\054\201\030\315\234\330\303\315\117\361\373\151\040
\227\300\110\317\023\105\022\265\034\366\076\203\342\116\136\335
\131\306\153\112\340\110\316\331\052\235\145\072\275\057\360\360
\114\274\011\172\313\067\000\244\077\073\014\043\335\343\373\306
\102\242\264\266\346\322\162\205\114\337\263\336\026\247\176\035
\347\324\317\255\253\263\120\344\160\214\337\260\160\220\311\206
\236\356\174\204\213\144\034\153\341\150\025\176\311\245\164\340
\116\367\132\352\335\022\061\253\221\100\205\161\013\316\051\050
\371\156\070\024\134\035\376\354\021\277\115\103\176\236\137\070
\277\327\352\236\223\057\320\035\164\265\005\011\323\042
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER
CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "I.CA - Standard Certification Authority, 09/2009"
Issuer: OU=I.CA - Provider of Certification Services,O=První certifikaní autorita\, a.s.,CN=I.CA - Standard Certification Authority\, 09/2009,C=CZ
Serial Number:16:e3:60
Subject: OU=I.CA - Provider of Certification Services,O=První certifikaní autorita\, a.s.,CN=I.CA - Standard Certification Authority\, 09/2009,C=CZ
Not Valid Before: Tue Sep 01 00:00:00 2009
Not Valid After: Sun Sep 01 00:00:00 2019
Fingerprint (MD5): 86:ef:8e:31:9d:9f:85:69:a2:a4:1a:12:71:68:ba:1b
Fingerprint (SHA1): 90:de:ce:77:f8:c8:25:34:0e:62:eb:d6:35:e1:be:20:cf:73:27:dd
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "I.CA - Standard Certification Authority, 09/2009"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\220\336\316\167\370\310\045\064\016\142\353\326\065\341\276\040
\317\163\047\335
END
CKA_CERT_MD5_HASH
MULTILINE_OCTAL
\206\357\216\061\235\237\205\151\242\244\032\022\161\150\272\033
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\253\061\013\060\011\006\003\125\004\006\023\002\103\132
\061\071\060\067\006\003\125\004\003\014\060\111\056\103\101\040
\055\040\123\164\141\156\144\141\162\144\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\054\040\060\071\057\062\060\060\071\061\055\060\053\006
\003\125\004\012\014\044\120\162\166\156\303\255\040\143\145\162
\164\151\146\151\153\141\304\215\156\303\255\040\141\165\164\157
\162\151\164\141\054\040\141\056\163\056\061\062\060\060\006\003
\125\004\013\014\051\111\056\103\101\040\055\040\120\162\157\166
\151\144\145\162\040\157\146\040\103\145\162\164\151\146\151\143
\141\164\151\157\156\040\123\145\162\166\151\143\145\163
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\026\343\140
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION
CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "I.CA - Qualified Certification Authority, 09/2009"
Issuer: OU=I.CA - Accredited Provider of Certification Services,O=První certifikaní autorita\, a.s.,CN=I.CA - Qualified Certification Authority\, 09/2009,C=CZ
Serial Number:a0:37:a0
Subject: OU=I.CA - Accredited Provider of Certification Services,O=První certifikaní autorita\, a.s.,CN=I.CA - Qualified Certification Authority\, 09/2009,C=CZ
Not Valid Before: Tue Sep 01 00:00:00 2009
Not Valid After: Sun Sep 01 00:00:00 2019
Fingerprint (MD5): 8d:63:9b:56:c1:14:e4:ee:9a:12:85:86:11:90:82:a3
Fingerprint (SHA1): d2:44:1a:a8:c2:03:ae:ca:a9:6e:50:1f:12:4d:52:b6:8f:e4:c3:75
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "I.CA - Qualified

Certification Authority, 09/2009"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\267\061\013\060\011\006\003\125\004\006\023\002\103\132
\061\072\060\070\006\003\125\004\003\014\061\111\056\103\101\040
\055\040\121\165\141\154\151\146\151\145\144\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171\054\040\060\071\057\062\060\060\071\061\055\060\053
\006\003\125\004\012\014\044\120\162\166\156\303\255\040\143\145
\162\164\151\146\151\153\141\304\215\156\303\255\040\141\165\164
\157\162\151\164\141\054\040\141\056\163\056\061\075\060\073\006
\003\125\004\013\014\064\111\056\103\101\040\055\040\101\143\143
\162\145\144\151\164\145\144\040\120\162\157\166\151\144\145\162
\040\157\146\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\123\145\162\166\151\143\145\163
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\267\061\013\060\011\006\003\125\004\006\023\002\103\132
\061\072\060\070\006\003\125\004\003\014\061\111\056\103\101\040
\055\040\121\165\141\154\151\146\151\145\144\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171\054\040\060\071\057\062\060\060\071\061\055\060\053
\006\003\125\004\012\014\044\120\162\166\156\303\255\040\143\145
\162\164\151\146\151\153\141\304\215\156\303\255\040\141\165\164
\157\162\151\164\141\054\040\141\056\163\056\061\075\060\073\006
\003\125\004\013\014\064\111\056\103\101\040\055\040\101\143\143
\162\145\144\151\164\145\144\040\120\162\157\166\151\144\145\162
\040\157\146\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\123\145\162\166\151\143\145\163
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\004\000\240\067\240
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\036\060\202\004\006\240\003\002\001\002\002\004\000
\240\067\240\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\060\201\267\061\013\060\011\006\003\125\004\006\023\002
\103\132\061\072\060\070\006\003\125\004\003\014\061\111\056\103
\101\040\055\040\121\165\141\154\151\146\151\145\144\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171\054\040\060\071\057\062\060\060\071\061\055
\060\053\006\003\125\004\012\014\044\120\162\166\156\303\255\040
\143\145\162\164\151\146\151\153\141\304\215\156\303\255\040\141
\165\164\157\162\151\164\141\054\040\141\056\163\056\061\075\060
\073\006\003\125\004\013\014\064\111\056\103\101\040\055\040\101
\143\143\162\145\144\151\164\145\144\040\120\162\157\166\151\144

\145\162\040\157\146\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\123\145\162\166\151\143\145\163\060\036\027\015
\060\071\060\071\060\061\060\060\060\060\060\060\132\027\015\061
\071\060\071\060\061\060\060\060\060\060\060\132\060\201\267\061
\013\060\011\006\003\125\004\006\023\002\103\132\061\072\060\070
\006\003\125\004\003\014\061\111\056\103\101\040\055\040\121\165
\141\154\151\146\151\145\144\040\103\145\162\164\151\146\151\143
\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\054
\040\060\071\057\062\060\060\071\061\055\060\053\006\003\125\004
\012\014\044\120\162\166\156\303\255\040\143\145\162\164\151\146
\151\153\141\304\215\156\303\255\040\141\165\164\157\162\151\164
\141\054\040\141\056\163\056\061\075\060\073\006\003\125\004\013
\014\064\111\056\103\101\040\055\040\101\143\143\162\145\144\151
\164\145\144\040\120\162\157\166\151\144\145\162\040\157\146\040
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\123\145
\162\166\151\143\145\163\060\202\001\042\060\015\006\011\052\206
\110\206\367\015\001\001\001\005\000\003\202\001\017\000\060\202
\001\012\002\202\001\001\000\265\066\204\313\102\202\360\317\145
\342\124\232\130\163\054\343\353\025\127\122\360\317\042\130\210
\204\015\170\052\357\324\161\346\375\212\106\041\326\077\147\256
\064\161\346\247\222\064\057\041\176\346\333\160\112\340\344\202
\350\243\274\221\226\000\337\072\051\073\076\206\024\043\212\127
\143\357\056\351\033\163\347\066\212\141\172\220\261\304\277\252
\215\003\305\261\204\366\321\337\022\260\224\160\360\007\154\241
\133\072\073\127\164\025\200\064\106\363\173\056\202\244\047\264
\246\002\334\271\345\114\146\311\244\323\376\003\076\366\202\223
\275\000\165\047\374\200\141\026\116\044\261\317\045\141\055\213
\364\140\262\364\053\046\164\244\201\077\277\051\367\017\013\307
\273\303\056\251\003\202\335\177\314\032\334\121\151\222\111\276
\300\023\360\117\021\343\053\311\005\165\041\322\072\236\121\247
\006\025\244\134\346\037\350\144\235\153\042\160\363\246\355\273
\020\273\276\040\312\066\266\351\343\201\343\101\026\222\306\172
\172\073\167\255\243\134\170\015\370\230\167\017\330\154\221\136
\354\110\344\305\044\001\313\002\003\001\000\001\243\202\001\056
\060\202\001\052\060\017\006\003\125\035\023\001\001\377\004\005
\060\003\001\001\377\060\016\006\003\125\035\017\001\001\377\004
\004\003\002\001\006\060\201\347\006\003\125\035\040\004\201\337
\060\201\334\060\201\331\006\004\125\035\040\000\060\201\320\060
\201\315\006\010\053\006\001\005\005\007\002\002\060\201\300\032
\201\275\124\145\156\164\157\040\143\145\162\164\151\146\151\153
\141\164\040\152\145\040\166\171\144\141\156\040\152\141\153\157
\040\153\166\141\154\151\146\151\153\157\166\141\156\171\040\163
\171\163\164\145\155\157\166\171\040\143\145\162\164\151\146\151
\153\141\164\040\160\157\144\154\145\040\172\141\153\157\156\141
\040\143\056\040\062\062\067\057\062\060\060\060\040\123\142\056
\040\166\040\160\154\141\164\156\145\155\040\172\156\145\156\151
\057\124\150\151\163\040\151\163\040\161\165\141\154\151\146\151
\145\144\040\163\171\163\164\145\155\040\143\145\162\164\151\146

\151\143\141\164\145\040\141\143\143\157\162\144\151\156\147\040
\164\157\040\103\172\145\143\150\040\101\143\164\040\116\157\056
\040\062\062\067\057\062\060\060\060\040\103\157\154\154\056\060
\035\006\003\125\035\016\004\026\004\024\171\313\320\043\351\072
\147\160\221\164\117\323\121\342\340\040\375\341\050\373\060\015
\006\011\052\206\110\206\367\015\001\001\013\005\000\003\202\001
\001\000\175\225\245\066\327\210\130\150\021\317\145\373\133\015
\057\366\164\201\213\131\331\235\111\270\365\071\226\311\360\262
\017\004\314\130\214\372\004\062\254\300\107\276\055\303\336\223
\213\246\226\105\256\126\164\345\232\113\242\077\252\046\304\050
\126\141\044\005\127\137\231\244\307\147\260\030\122\311\373\101
\250\371\344\361\236\062\316\236\025\105\331\135\254\373\236\333
\233\307\074\217\257\333\113\242\043\350\073\051\160\161\030\245
\370\343\207\256\041\023\152\364\151\052\131\016\061\263\050\123
\072\142\232\254\010\223\174\251\207\266\137\132\246\030\302\320
\302\363\135\214\157\247\077\060\211\070\353\224\023\052\110\132
\336\171\345\220\313\136\244\271\027\266\143\006\071\137\310\066
\143\021\364\266\022\317\110\166\211\074\152\127\371\353\163\042
\367\372\076\005\256\072\300\306\016\222\115\317\324\211\124\321
\032\202\152\067\133\226\050\250\000\042\203\316\320\052\271\263
\215\123\130\056\145\134\325\362\333\214\001\045\163\154\227\213
\374\140\001\354\100\223\301\355\121\270\252\313\142\330\045\060
\242\075
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "I.CA - Qualified Certification Authority, 09/2009"
Issuer: OU=I.CA - Accredited Provider of Certification Services,O=První certifikaní autorita\, a.s.,CN=I.CA - Qualified Certification Authority\, 09/2009,C=CZ
Serial Number:a0:37:a0
Subject: OU=I.CA - Accredited Provider of Certification Services,O=První certifikaní autorita\, a.s.,CN=I.CA - Qualified Certification Authority\, 09/2009,C=CZ
Not Valid Before: Tue Sep 01 00:00:00 2009
Not Valid After: Sun Sep 01 00:00:00 2019
Fingerprint (MD5): 8d:63:9b:56:c1:14:e4:ee:9a:12:85:86:11:90:82:a3
Fingerprint (SHA1): d2:44:1a:a8:c2:03:ae:ca:a9:6e:50:1f:12:4d:52:b6:8f:e4:c3:75
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL
 CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "I.CA - Qualified Certification Authority, 09/2009"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\322\104\032\250\302\003\256\312\251\156\120\037\022\115\122\266

\217\344\303\165
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\215\143\233\126\301\024\344\356\232\022\205\206\021\220\202\243
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\267\061\013\060\011\006\003\125\004\006\023\002\103\132
\061\072\060\070\006\003\125\004\003\014\061\111\056\103\101\040
\055\040\121\165\141\154\151\146\151\145\144\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171\054\040\060\071\057\062\060\060\071\061\055\060\053
\006\003\125\004\012\014\044\120\162\166\156\303\255\040\143\145
\162\164\151\146\151\153\141\304\215\156\303\255\040\141\165\164
\157\162\151\164\141\054\040\141\056\163\056\061\075\060\073\006
\003\125\004\013\014\064\111\056\103\101\040\055\040\101\143\143
\162\145\144\151\164\145\144\040\120\162\157\166\151\144\145\162
\040\157\146\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\123\145\162\166\151\143\145\163
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\004\000\240\067\240
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "VI Registru Centras RCSC (RootCA)"
Issuer: CN=VI Registru Centras RCSC (RootCA),OU=Registru Centro Sertifikavimo Centras,O=VI Registru Centras - I.k. 124110246,C=LT
Serial Number:03:a3:a4:57:b5:f0:f3:86:4a:11:63:e8:98:ff:16:9c
Subject: CN=VI Registru Centras RCSC (RootCA),OU=Registru Centro Sertifikavimo Centras,O=VI Registru Centras - I.k. 124110246,C=LT
Not Valid Before: Mon Jul 21 11:47:46 2008
Not Valid After: Sun Jul 21 11:47:46 2024
Fingerprint (MD5): 41:5b:95:78:0d:d1:c3:a7:dc:d9:ba:fe:e7:27:b6:14
#
Fingerprint (SHA1): 97:1d:34:86:fc:1e:8e:63:15:f7:c6:f2:e1:29:67:c7:24:34:22:14
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "VI Registru Centras RCSC (RootCA)"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\230\061\013\060\011\006\003\125\004\006\023\002\114\124

\061\055\060\053\006\003\125\004\012\023\044\126\111\040\122\145
\147\151\163\164\162\165\040\103\145\156\164\162\141\163\040\055
\040\111\056\153\056\040\061\062\064\061\061\060\062\064\066\061
\056\060\054\006\003\125\004\013\023\045\122\145\147\151\163\164
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\040\111\056\153\056\040\061\062\064\061\061\060\062\064\066\061
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\164\162\165\040\103\145\156\164\162\141\163\040\122\103\123\103
\040\050\122\157\157\164\103\101\051\060\036\027\015\060\070\060
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\162\145\160\157\163\151\164\157\162\171\060\015\006\011\052\206
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\370\234\165\244\100\066\225\113\042\117\306\266\175\162\121\274
\343\302\150\315\315\345\213\276\300\302\117\233\156\145\316\026
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\244\102\055\343\152\017\107\107\260\123\246\326\205\120\227\060
\327\214\056\137\106\042\320\254\316\074\136\234\036\162\203\375
\014\247\370\027\062\273\141\336\343\117\057\030\216\202\265\207
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CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "VI Registru Centras RCSC (RootCA)"
Issuer: CN=VI Registru Centras RCSC (RootCA),OU=Registru Centro Sertifikavimo Centras,O=VI Registru Centras - I.k. 124110246,C=LT

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# Serial
 Number:03:a3:a4:57:b5:f0:f3:86:4a:11:63:e8:98:ff:16:9c
# Subject: CN=VI Registru Centras RCSC (RootCA),OU=Registru Centro Sertifikavimo Centras,O=VI Registru
Centras - I.k. 124110246,C=LT
# Not Valid Before: Mon Jul 21 11:47:46 2008
# Not Valid After: Sun Jul 21 11:47:46 2024
# Fingerprint (MD5): 41:5b:95:78:0d:d1:c3:a7:dc:d9:ba:fe:e7:27:b6:14
# Fingerprint (SHA1): 97:1d:34:86:fc:1e:8e:63:15:f7:c6:f2:e1:29:67:c7:24:34:22:14
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "VI Registru Centras RCSC (RootCA)"
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\227\035\064\206\374\036\216\143\025\367\306\362\341\051\147\307
\044\064\042\024
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CKA_CERT_MD5_HASH MULTILINE_OCTAL
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END
CKA_ISSUER MULTILINE_OCTAL
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\147\151\163\164\162\165\040\103\145\156\164\162\141\163\040\055
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END
CKA_SERIAL_NUMBER
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\026\234
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Autoridade Certificadora Raiz Brasileira v1"
# Issuer: CN=Autoridade Certificadora Raiz Brasileira v1,OU=Instituto
 Nacional de Tecnologia da Informacao - ITI,O=ICP-Brasil,C=BR
# Serial Number: 1 (0x1)
# Subject: CN=Autoridade Certificadora Raiz Brasileira v1,OU=Instituto Nacional de Tecnologia da Informacao -
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ITI,O=ICP-Brasil,C=BR
# Not Valid Before: Tue Jul 29 19:17:10 2008
# Not Valid After: Thu Jul 29 19:17:10 2021
# Fingerprint (MD5): 93:f1:ad:34:0b:2b:e7:a8:54:60:e2:73:8c:a4:94:31
# Fingerprint (SHA1): 70:5d:2b:45:65:c7:04:7a:54:06:94:a7:9a:f7:ab:b8:42:bd:c1:61
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridade Certificadora Raiz Brasileira v1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
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\162\141\163\151\154\061\075\060\073\006\003\125\004\013\023\064
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\040\144\141\040\111\156\146\157\162\155\141\143\141\157\040\055
\040\111\124\111\061\064\060\062\006\003\125\004\003\023\053\101
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END
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\164\157\162\151\144\141\144\145\040\103\145\162\164\151\146\151
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\151\154\145\151\162\141\040\166\061\060\036\027\015\060\070\060
\067\062\071\061\071\061\067\061\060\132\027\015\062\061\060\067
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\162\057\104\120\103\141\143\162\141\151\172\056\160\144\146\060
\077\006\003\125\035\037\004\070\060\066\060\064\240\062\240\060
\206\056\150\164\164\160\072\057\057\141\143\162\141\151\172\056
\151\143\160\142\162\141\163\151\154\056\147\157\166\056\142\162
\057\114\103\122\141\143\162\141\151\172\166\061\056\143\162\154
\060\035\006\003\125\035\016\004\026\004\024\102\262\054\134\164
\001\007\276\233\377\125\063\073\356\051\273\135\221\277\006\060
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377

\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\003
\202\001\001\000\131\154\212\166\351\031\161\127\203\376\247\364
\172\017\236\201\320\317\007\034\014\043\351\044\015\121\313\063
\350\052\011\303\172\377\016\243\200\206\140\301\160\227\340\300
\012\125\335\244\145\114\217\247\107\260\127\267\363\253\304\303
\031\343\230\354\015\260\033\121\221\311\331\011\326\351\152\263
\347\014\260\262\222\207\373\216\115\025\354\022\024\031\170\014
\142\352\024\071\030\012\305\125\333\123\205\334\173\050\372\025
\161\243\312\164\045\202\017\147\047\064\327\256\122\023\002\373
\305\357\232\200\045\245\122\236\071\016\355\072\364\170\007\137
\325\050\172\012\112\365\320\303\147\367\214\130\027\157\012\000
\243\046\020\264\140\042\072\112\110\245\332\340\251\204\336\103
\333\237\103\247\077\050\004\107\222\057\367\347\144\165\041\322
\117\201\316\252\076\144\016\343\016\255\125\232\176\224\233\064
\301\320\256\151\116\036\243\331\263\207\127\332\160\302\132\175
\207\315\371\277\067\336\355\126\065\367\267\042\016\117\222\270
\077\010\337\234\236\230\136\362\157\271\372\233\054\370\315\105
\330\162\262\040
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
#
Trust for "Autoridade Certificadora Raiz Brasileira v1"
Issuer: CN=Autoridade Certificadora Raiz Brasileira v1,OU=Instituto Nacional de Tecnologia da Informacao - ITI,O=ICP-Brasil,C=BR
Serial Number: 1 (0x1)
Subject: CN=Autoridade Certificadora Raiz Brasileira v1,OU=Instituto Nacional de Tecnologia da Informacao - ITI,O=ICP-Brasil,C=BR
Not Valid Before: Tue Jul 29 19:17:10 2008
Not Valid After: Thu Jul 29 19:17:10 2021
Fingerprint (MD5): 93:f1:ad:34:0b:2b:e7:a8:54:60:e2:73:8c:a4:94:31
Fingerprint (SHA1): 70:5d:2b:45:65:c7:04:7a:54:06:94:a7:9a:f7:ab:b8:42:bd:c1:61
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridade Certificadora Raiz Brasileira v1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\160\135\053\105\145\307\004\172\124\006\224\247\232\367\253\270
\102\275\301\141
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\223\361\255\064\013\053\347\250\124\140\342\163\214\244\224\061

```
END
CKA_ISSUER
 MULTILINE_OCTAL
\060\201\227\061\013\060\011\006\003\125\004\006\023\002\102\122
\061\023\060\021\006\003\125\004\012\023\012\111\103\120\055\102
\162\141\163\151\154\061\075\060\073\006\003\125\004\013\023\064
\111\156\163\164\151\164\165\164\157\040\116\141\143\151\157\156
\141\154\040\144\145\040\124\145\143\156\157\154\157\147\151\141
\040\144\141\040\111\156\146\157\162\155\141\143\141\157\040\055
\040\111\124\111\061\064\060\062\006\003\125\004\003\023\053\101
\165\164\157\162\151\144\141\144\145\040\103\145\162\164\151\146
\151\143\141\144\157\162\141\040\122\141\151\172\040\102\162\141
\163\151\154\145\151\162\141\040\166\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Actalis Authentication
 CA G1"
# Issuer: CN=Actalis Authentication CA G1,O=Actalis S.p.A./03358520967,L=Milano,C=IT
# Serial Number: 1 (0x1)
# Subject: CN=Actalis Authentication CA G1,O=Actalis S.p.A./03358520967,L=Milano,C=IT
# Not Valid Before: Tue Jun 23 14:06:00 2009
# Not Valid After: Sat Jun 25 14:06:00 2022
# Fingerprint (MD5): c2:2a:59:ab:cf:15:2f:4c:f7:e6:31:a3:16:ae:84:0c
# Fingerprint (SHA1): 91:58:c5:ef:98:73:01:a8:90:3c:fd:ab:03:d7:2d:a1:d8:89:09:c9
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Actalis Authentication CA G1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\152\061\013\060\011\006\003\125\004\006\023\002\111\124\061
\017\060\015\006\003\125\004\007\014\006\115\151\154\141\156\157
\061\043\060\041\006\003\125\004\012\014\032\101\143\164\141\154
\151\163\040\123\056\160\056\101\056\057\060\063\063\065\070\065
\062\060\071\066\067\061\045\060\043\006\003\125\004\003\014\034
\101\143\164\141\154\151\163\040\101\165\164\150\145\156\164\151
\143\141\164\151\157\156\040\103\101\040\107\061
END
CKA_ID
```

UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\152\061\013\060\011\006\003\125\004\006\023\002\111\124\061
\017\060\015\006\003\125\004\007\014\006\115\151\154\141\156\157
\061\043\060\041\006\003\125\004\012\014\032\101\143\164\141\154
\151\163\040\123\056\160\056\101\056\057\060\063\063\065\070\065
\062\060\071\066\067\061\045\060\043\006\003\125\004\003\014\034
\101\143\164\141\154\151\163\040\101\165\164\150\145\156\164\151
\143\141\164\151\157\156\040\103\101\040\107\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\224\060\202\002\174\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\152\061\013\060\011\006\003\125\004\006\023\002\111\124\061\017
\060\015\006\003\125\004\007\014\006\115\151\154\141\156\157\061
\043\060\041\006\003\125\004\012\014\032\101\143\164\141\154\151
\163\040\123\056\160\056\101\056\057\060\063\063\065\070\065\062
\060\071\066\067\061\045\060\043\006\003\125\004\003\014\034\101
\143\164\141\154\151\163\040\101\165\164\150\145\156\164\151\143
\141\164\151\157\156\040\103\101\040\107\061\060\036\027\015\060
\071\060\066\062\063\061\064\060\066\060\060\132\027\015\062\062
\060\066\062\065\061\064\060\066\060\060\132\060\152\061\013\060
\011\006\003\125\004\006\023\002\111\124\061\017\060\015\006\003
\125\004\007\014\006\115\151\154\141\156\157\061\043\060\041\006
\003\125\004\012\014\032\101\143\164\141\154\151\163\040\123\056
\160\056\101\056\057\060\063\063\065\070\065\062\060\071\066\067
\061\045\060\043\006\003\125\004\003\014\034\101\143\164\141\154
\151\163\040\101\165\164\150\145\156\164\151\143\141\164\151\157
\156\040\103\101\040\107\061\060\202\001\042\060\015\006\011\052
\206\110\206\367\015\001\001\001\005\000\003\202\001\017\000\060
\202\001\012\002\202\001\001\000\303\034\206\064\077\047\122\102
\140\272\053\140\320\041\053\311\327\351\100\165\072\154\130\017
\043\073\317\206\076\324\144\253\156\332\352\310\052\330\225\105
\337\311\034\322\045\222\236\020\230\132\213\161\151\300\225\351
\366\153\150\334\367\266\304\015\376\156\365\160\073\301\244\250
\117\040\242\047\013\237\361\022\165\174\317\256\177\136\313\170
\002\130\050\327\057\252\333\240\256\164\075\176\253\366\351\162
\241\052\317\326\220\140\337\340\240\065\312\300\333\004\304\007
\126\374\146\165\214\216\172\023\241\074\006\153\032\346\177\071
\234\210\344\204\157\242\342\177\153\237\354\001\252\322\304\313
\262\354\232\075\270\027\030\254\037\140\231\063\346\353\005\335
\314\362\151\147\260\016\276\050\044\103\313\055\271\107\204\031
\371\352\344\361\365\150\364\237\307\173\120\121\257\242\374\157
\167\210\061\277\222\333\177\234\305\265\254\241\010\230\347\152
\063\376\321\273\000\341\267\005\010\257\363\246\126\210\066\075

\343\212\112\342\015\235\200\206\146\237\324\302\243\120\272\034
\022\327\207\212\061\112\270\025\002\003\001\000\001\243\105\060
\103\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001
\006\060\022\006\003\125\035\023\001\001\377\004\010\060\006\001
\001\377\002\001\000\060\035\006\003\125\035\016\004\026\004\024
\001\273\326\233\126\264\176\346\305\130\335\054\230\364\312\162
\366\137\063\206\060\015\006\011\052\206\110\206\367\015\001\001
\005\005\000\003\202\001\001\000\241\040\326\313\242\064\155\074
\156\341\125\322\112\320\331\272\262\067\121\210\167\047\356\002
\110\223\105\101\342\165\121\362\031\224\011\240\363\270\175\272
\003\200\043\240\045\357\001\031\265\331\032\172\055\343\102\212
\261\206\061\017\226\354\146\204\362\316\043\022\106\226\153\061
\136\006\272\257\243\122\252\102\040\250\321\256\252\233\337\304
\027\236\123\160\001\264\251\032\332\150\310\143\017\266\132\163
\123\321\151\021\006\023\122\347\153\250\005\061\267\260\374\207
\106\305\165\210\201\361\137\170\002\347\237\255\234\273\124\355
\137\231\152\067\325\353\125\263\052\300\103\140\121\334\264\161
\222\046\243\017\314\172\075\334\300\102\211\027\051\010\147\124
\144\305\371\250\104\274\204\161\130\226\075\147\127\177\273\254
\220\263\161\042\277\076\272\254\146\046\105\020\263\360\037\072
\072\150\245\120\065\312\264\027\221\006\001\054\367\015\260\160
\262\133\126\165\271\167\231\300\331\225\205\002\055\163\146\007
\311\117\231\021\356\133\053\250\343\150\043\005\250\363\004\017
\006\273\037\011\216\306\133\035
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Actalis Authentication CA G1"
Issuer: CN=Actalis Authentication CA G1,O=Actalis S.p.A./03358520967,L=Milano,C=IT
Serial Number: 1 (0x1)
Subject: CN=Actalis Authentication CA G1,O=Actalis S.p.A./03358520967,L=Milano,C=IT
Not Valid Before: Tue Jun 23 14:06:00 2009
Not Valid After: Sat Jun 25 14:06:00 2022
Fingerprint (MD5): c2:2a:59:ab:cf:15:2f:4c:f7:e6:31:a3:16:ae:84:0c
#
Fingerprint (SHA1): 91:58:c5:ef:98:73:01:a8:90:3c:fd:ab:03:d7:2d:a1:d8:89:09:c9
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Actalis Authentication CA G1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\221\130\305\357\230\163\001\250\220\074\375\253\003\327\055\241
\330\211\011\311

```
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\302\052\131\253\317\025\057\114\367\346\061\243\026\256\204\014
END
CKA_ISSUER MULTILINE_OCTAL
\060\152\061\013\060\011\006\003\125\004\006\023\002\111\124\061
\017\060\015\006\003\125\004\007\014\006\115\151\154\141\156\157
\061\043\060\041\006\003\125\004\012\014\032\101\143\164\141\154
\151\163\040\123\056\160\056\101\056\057\060\063\063\065\070\065
\062\060\071\066\067\061\045\060\043\006\003\125\004\003\014\034
\101\143\164\141\154\151\163\040\101\165\164\150\145\156\164\151
\143\141\164\151\157\156\040\103\101\040\107\061
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "A-Trust-Qual-03"
# Issuer: CN=A-Trust-Qual-03,OU=A-Trust-Qual-03,O=A-Trust Ges. f. Sicherheitssysteme im elektr. Datenverkehr
GmbH,C=AT
# Serial Number: 255636 (0x3e694)
# Subject: CN=A-Trust-Qual-03,OU=A-Trust-Qual-03,O=A-Trust Ges. f. Sicherheitssysteme im elektr.
Datenverkehr GmbH,C=AT
# Not Valid Before: Thu Apr 24 22:00:00 2008
# Not Valid After: Tue Apr 24 22:00:00 2018
# Fingerprint (MD5): d8:7e:32:ef:69:f8:bf:72:03:1d:40:82:e8:a7:75:af
# Fingerprint (SHA1): 42:ef:dd:e6:bf:f3:5e:d0:ba:e6:ac:dd:20:4c:50:ae:86:c4:f4:fa
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "A-Trust-Qual-03"
CKA_CERTIFICATE_TYPE
 CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\213\061\013\060\011\006\003\125\004\006\023\002\101\124
\061\110\060\106\006\003\125\004\012\014\077\101\055\124\162\165
\163\164\040\107\145\163\056\040\146\056\040\123\151\143\150\145
\162\150\145\151\164\163\163\171\163\164\145\155\145\040\151\155
\040\145\154\145\153\164\162\056\040\104\141\164\145\156\166\145
\162\153\145\150\162\040\107\155\142\110\061\030\060\026\006\003
\125\004\013\014\017\101\055\124\162\165\163\164\055\121\165\141
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\154\055\060\063\061\030\060\026\006\003\125\004\003\014\017\101
\055\124\162\165\163\164\055\121\165\141\154\055\060\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\213\061\013\060\011\006\003\125\004\006\023\002\101\124
\061\110\060\106\006\003\125\004\012\014\077\101\055\124\162\165
\163\164\040\107\145\163\056\040\146\056\040\123\151\143\150\145
\162\150\145\151\164\163\163\171\163\164\145\155\145\040\151\155
\040\145\154\145\153\164\162\056\040\104\141\164\145\156\166\145
\162\153\145\150\162\040\107\155\142\110\061\030\060\026\006\003
\125\004\013\014\017\101\055\124\162\165\163\164\055\121\165\141
\154\055\060\063\061\030\060\026\006\003\125\004\003\014\017\101
\055\124\162\165\163\164\055\121\165\141\154\055\060\063
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\003\003\346\224
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\313\060\202\002\263\240\003\002\001\002\002\003\003
\346\224\060\015\006\011\052\206\110\206\367\015\001\001\005\005
\000\060\201\213\061\013\060\011\006\003\125\004\006\023\002\101
\124\061\110\060\106\006\003\125\004\012\014\077\101\055\124\162
\165\163\164\040\107\145\163\056\040\146\056\040\123\151\143\150
\145\162\150\145\151\164\163\163\171\163\164\145\155\145\040\151
\155\040\145\154\145\153\164\162\056\040\104\141\164\145\156\166
\145\162\153\145\150\162\040\107\155\142\110\061\030\060\026\006
\003\125\004\013\014\017\101\055\124\162\165\163\164\055\121\165
\141\154\055\060\063\061\030\060\026\006\003\125\004\003\014\017
\101\055\124\162\165\163\164\055\121\165\141\154\055\060\063\060
\036\027\015\060\070\060\064\062\064\062\062\060\060\060\060\132
\027\015\061\070\060\064\062\064\062\062\060\060\060\060\132\060
\201\213\061\013\060\011\006\003\125\004\006\023\002\101\124\061
\110\060\106\006\003\125\004\012\014\077\101\055\124\162\165\163
\164\040\107\145\163\056\040\146\056\040\123\151\143\150\145\162
\150\145\151\164\163\163\171\163\164\145\155\145\040\151\155\040
\145\154\145\153\164\162\056\040\104\141\164\145\156\166\145\162
\153\145\150\162\040\107\155\142\110\061\030\060\026\006\003\125
\004\013\014\017\101\055\124\162\165\163\164\055\121\165\141\154
\055\060\063\061\030\060\026\006\003\125\004\003\014\017\101\055
\124\162\165\163\164\055\121\165\141\154\055\060\063\060\202\001
\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000
\003\202\001\017\000\060\202\001\012\002\202\001\001\000\263\236
\044\210\034\322\317\100\003\110\152\252\245\240\053\275\226\365
\174\012\237\237\253\120\220\333\101\316\126\200\171\052\300\375
\223\123\172\234\133\363\131\141\044\210\143\243\325\030\356\233
\204\164\204\234\354\214\075\332\301\206\172\157\066\056\046\353

\176\075\311\076\255\347\256\113\164\167\050\053\044\040\377\052
\056\302\225\144\020\366\176\173\303\267\332\021\175\236\253\355
\057\214\031\242\034\235\214\314\063\160\165\011\007\376\136\373
\100\244\045\214\057\375\265\121\147\072\250\053\114\237\326\150
\235\140\233\244\305\143\260\356\160\315\050\077\112\164\352\131
\371\165\305\000\006\156\037\260\143\301\052\252\023\135\374\313
\322\145\033\071\061\042\132\302\171\042\135\031\361\113\302\276
\316\034\210\001\164\361\046\101\167\062\071\306\214\120\150\317
\123\205\103\212\017\240\217\356\216\013\222\243\000\100\276\300
\242\131\136\054\241\104\270\376\037\042\323\014\272\320\350\357
\051\344\162\067\112\213\370\026\354\042\062\007\052\043\054\363
\243\327\315\312\251\247\117\162\277\274\021\216\250\033\002\003
\001\000\001\243\066\060\064\060\017\006\003\125\035\023\001\001
\377\004\005\060\003\001\001\377\060\021\006\003\125\035\016\004
\012\004\010\106\006\337\067\362\302\067\020\060\016\006\003\125
\035\017\001\001\377\004\004\003\002\001\006\060\015\006\011\052
\206\110\206\367\015\001\001\005\005\000\003\202\001\001\000\161
\010\324\046\104\276\200\342\153\102\265\052\120\375\135\350\214
\140\363\234\266\222\201\162\070\262\157\251\076\201\362\303\064
\044\123\241\121\122\310\245\211\323\274\334\333\022\271\333\251
\260\130\357\300\010\146\062\142\343\341\363\243\130\243\167\156
\356\344\241\273\127\021\150\167\063\010\364\315\131\270\352\135
\033\011\306\254\314\215\013\272\315\337\326\232\276\253\166\000
\255\175\026\113\144\134\337\230\076\153\155\136\054\174\071\025
\131\102\067\040\074\237\303\334\177\365\123\066\267\342\307\244
\042\214\172\276\161\275\115\263\150\310\270\251\211\377\161\060
\213\317\221\155\362\205\056\245\112\042\176\162\336\324\256\261
\355\014\357\374\105\175\055\334\044\255\355\171\007\345\255\117
\262\351\122\164\111\270\214\122\372\275\022\344\031\303\374\121
\215\026\343\153\150\156\071\232\337\051\071\245\273\261\241\027
\301\027\343\165\152\374\175\261\162\074\337\301\352\345\243\034
\324\235\131\033\032\164\037\151\052\203\124\044\030\323\356\345
\340\203\127\276\033\342\320\037\255\154\065\276\215\272\137
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "A-Trust-Qual-03"
Issuer: CN=A-Trust-Qual-03,OU=A-Trust-Qual-03,O=A-Trust Ges. f. Sicherheitssysteme im elektr. Datenverkehr GmbH,C=AT
Serial Number: 255636 (0x3e694)
Subject: CN=A-Trust-Qual-03,OU=A-Trust-Qual-03,O=A-Trust Ges. f. Sicherheitssysteme im elektr. Datenverkehr GmbH,C=AT
Not Valid Before: Thu Apr 24 22:00:00 2008
Not Valid After: Tue Apr 24 22:00:00 2018

```
# Fingerprint (MD5): d8:7e:32:ef:69:f8:bf:72:03:1d:40:82:e8:a7:75:af
# Fingerprint
 (SHA1): 42:ef:dd:e6:bf:f3:5e:d0:ba:e6:ac:dd:20:4c:50:ae:86:c4:f4:fa
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "A-Trust-Qual-03"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\102\357\335\346\277\363\136\320\272\346\254\335\040\114\120\256
\206\304\364\372
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\330\176\062\357\151\370\277\162\003\035\100\202\350\247\165\257
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\213\061\013\060\011\006\003\125\004\006\023\002\101\124
\061\110\060\106\006\003\125\004\012\014\077\101\055\124\162\165
\163\164\040\107\145\163\056\040\146\056\040\123\151\143\150\145
\162\150\145\151\164\163\163\171\163\164\145\155\145\040\151\155
\040\145\154\145\153\164\162\056\040\104\141\164\145\156\166\145
\162\153\145\150\162\040\107\155\142\110\061\030\060\026\006\003
\125\004\013\014\017\101\055\124\162\165\163\164\055\121\165\141
\154\055\060\063\061\030\060\026\006\003\125\004\003\014\017\101
\055\124\162\165\163\164\055\121\165\141\154\055\060\063
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\003\003\346\224
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "AddTrust External CA Root"
# Issuer: CN=AddTrust External CA Root,OU=AddTrust External TTP Network,O=AddTrust AB,C=SE
# Serial Number: 1 (0x1)
# Subject: CN=AddTrust External CA Root,OU=AddTrust External TTP Network,O=AddTrust AB,C=SE
# Not Valid Before: Tue May 30 10:48:38 2000
# Not Valid After: Sat May 30 10:48:38 2020
# Fingerprint (MD5): 1d:35:54:04:85:78:b0:3f:42:42:4d:bf:20:73:0a:3f
# Fingerprint (SHA1): 02:fa:f3:e2:91:43:54:68:60:78:57:69:4d:f5:e4:5b:68:85:18:68
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL
```

CK_FALSE
CKA_LABEL UTF8 "AddTrust External CA Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\157\061\013\060\011\006\003\125\004\006\023\002\123\105\061
\024\060\022\006\003\125\004\012\023\013\101\144\144\124\162\165
\163\164\040\101\102\061\046\060\044\006\003\125\004\013\023\035
\101\144\144\124\162\165\163\164\040\105\170\164\145\162\156\141
\154\040\124\124\120\040\116\145\164\167\157\162\153\061\042\060
\040\006\003\125\004\003\023\031\101\144\144\124\162\165\163\164
\040\105\170\164\145\162\156\141\154\040\103\101\040\122\157\157
\164
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\157\061\013\060\011\006\003\125\004\006\023\002\123\105\061
\024\060\022\006\003\125\004\012\023\013\101\144\144\124\162\165
\163\164\040\101\102\061\046\060\044\006\003\125\004\013\023\035
\101\144\144\124\162\165\163\164\040\105\170\164\145\162\156\141
\154\040\124\124\120\040\116\145\164\167\157\162\153\061\042\060
\040\006\003\125\004\003\023\031\101\144\144\124\162\165\163\164
\040\105\170\164\145\162\156\141\154\040\103\101\040\122\157\157
\164
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\066\060\202\003\036\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\157\061\013\060\011\006\003\125\004\006\023\002\123\105\061\024
\060\022\006\003\125\004\012\023\013\101\144\144\124\162\165\163
\164\040\101\102\061\046\060\044\006\003\125\004\013\023\035\101
\144\144\124\162\165\163\164\040\105\170\164\145\162\156\141\154
\040\124\124\120\040\116\145\164\167\157\162\153\061\042\060\040
\006\003\125\004\003\023\031\101\144\144\124\162\165\163\164\040
\105\170\164\145\162\156\141\154\040\103\101\040\122\157\157\164
\060\036\027\015\060\060\060\065\063\060\061\060\064\070\063\070
\132\027\015\062\060\060\065\063\060\061\060\064\070\063\070\132
\060\157\061\013\060\011\006\003\125\004\006\023\002\123\105\061
\024\060\022\006\003\125\004\012\023\013\101\144\144\124\162\165
\163\164\040\101\102\061\046\060\044\006\003\125\004\013\023\035
\101\144\144\124\162\165\163\164\040\105\170\164\145\162\156\141
\154\040\124\124\120\040\116\145\164\167\157\162\153\061\042\060
\040\006\003\125\004\003\023\031\101\144\144\124\162\165\163\164
\040\105\170\164\145\162\156\141\154\040\103\101\040\122\157\157
\164\060\202\001\042\060\015\006\011\052\206\110\206\367\015\001

\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202\001
\001\000\267\367\032\063\346\362\000\004\055\071\340\116\133\355
\037\274\154\017\315\265\372\043\266\316\336\233\021\063\227\244
\051\114\175\223\237\275\112\274\223\355\003\032\343\217\317\345
\155\120\132\326\227\051\224\132\200\260\111\172\333\056\225\375
\270\312\277\067\070\055\036\076\221\101\255\160\126\307\360\117
\077\350\062\236\164\312\310\220\124\351\306\137\017\170\235\232
\100\074\016\254\141\252\136\024\217\236\207\241\152\120\334\327
\232\116\257\005\263\246\161\224\234\161\263\120\140\012\307\023
\235\070\007\206\002\250\351\250\151\046\030\220\253\114\260\117
\043\253\072\117\204\330\337\316\237\341\151\157\273\327\102\327
\153\104\344\307\255\356\155\101\137\162\132\161\010\067\263\171
\145\244\131\240\224\067\367\000\057\015\302\222\162\332\320\070
\162\333\024\250\105\304\135\052\175\267\264\326\304\356\254\315
\023\104\267\311\053\335\103\000\045\372\141\271\151\152\130\043
\021\267\247\063\217\126\165\131\365\315\051\327\106\267\012\053
\145\266\323\102\157\025\262\270\173\373\357\351\135\123\325\064
\132\047\002\003\001\000\001\243\201\334\060\201\331\060\035\006
\003\125\035\016\004\026\004\024\255\275\230\172\064\264\046\367
\372\304\046\124\357\003\275\340\044\313\124\032\060\013\006\003
\125\035\017\004\004\003\002\001\006\060\017\006\003\125\035\023
\001\001\377\004\005\060\003\001\001\377\060\201\231\006\003\125
\035\043\004\201\221\060\201\216\200\024\255\275\230\172\064\264
\046\367\372\304\046\124\357\003\275\340\044\313\124\032\241\163
\244\161\060\157\061\013\060\011\006\003\125\004\006\023\002\123
\105\061\024\060\022\006\003\125\004\012\023\013\101\144\144\124
\162\165\163\164\040\101\102\061\046\060\044\006\003\125\004\013
\023\035\101\144\144\124\162\165\163\164\040\105\170\164\145\162
\156\141\154\040\124\124\120\040\116\145\164\167\157\162\153\061
\042\060\040\006\003\125\004\003\023\031\101\144\144\124\162\165
\163\164\040\105\170\164\145\162\156\141\154\040\103\101\040\122
\157\157\164\202\001\001\060\015\006\011\052\206\110\206\367\015
\001\001\005\005\000\003\202\001\001\000\260\233\340\205\045\302
\326\043\342\017\226\006\222\235\101\230\234\331\204\171\201\331
\036\133\024\007\043\066\145\217\260\330\167\273\254\101\154\107
\140\203\121\260\371\062\075\347\374\366\046\023\307\200\026\245
\277\132\374\207\317\170\171\211\041\232\342\114\007\012\206\065
\274\362\336\121\304\322\226\267\334\176\116\356\160\375\034\071
\353\014\002\121\024\055\216\275\026\340\301\337\106\165\347\044
\255\354\364\102\264\205\223\160\020\147\272\235\006\065\112\030
\323\053\172\314\121\102\241\172\143\321\346\273\241\305\053\302
\066\276\023\015\346\275\143\176\171\173\247\011\015\100\253\152
\335\217\212\303\366\366\214\032\102\005\121\324\105\365\237\247
\142\041\150\025\040\103\074\231\347\174\275\044\330\251\221\027
\163\210\077\126\033\061\070\030\264\161\017\232\315\310\016\236
\216\056\033\341\214\230\203\313\037\061\361\104\114\306\004\163
\111\166\140\017\307\370\275\027\200\153\056\351\314\114\016\132
\232\171\017\040\012\056\325\236\143\046\036\125\222\224\330\202

```
\027\132\173\320\274\307\217\116\206\004
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Trust for "AddTrust External CA Root"
# Issuer: CN=AddTrust External CA Root,OU=AddTrust External TTP Network,O=AddTrust AB,C=SE
# Serial Number: 1 (0x1)
# Subject: CN=AddTrust External CA Root,OU=AddTrust External TTP Network,O=AddTrust
 AB,C=SE
# Not Valid Before: Tue May 30 10:48:38 2000
# Not Valid After: Sat May 30 10:48:38 2020
# Fingerprint (MD5): 1d:35:54:04:85:78:b0:3f:42:42:4d:bf:20:73:0a:3f
# Fingerprint (SHA1): 02:fa:f3:e2:91:43:54:68:60:78:57:69:4d:f5:e4:5b:68:85:18:68
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AddTrust External CA Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\002\372\363\342\221\103\124\150\140\170\127\151\115\365\344\133
\150\205\030\150
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\035\065\124\004\205\170\260\077\102\102\115\277\040\163\012\077
END
CKA_ISSUER MULTILINE_OCTAL
\060\157\061\013\060\011\006\003\125\004\006\023\002\123\105\061
\024\060\022\006\003\125\004\012\023\013\101\144\144\124\162\165
\163\164\040\101\102\061\046\060\044\006\003\125\004\013\023\035
\101\144\144\124\162\165\163\164\040\105\170\164\145\162\156\141
\154\040\124\124\120\040\116\145\164\167\157\162\153\061\042\060
\040\006\003\125\004\003\023\031\101\144\144\124\162\165\163\164
\040\105\170\164\145\162\156\141\154\040\103\101\040\122\157\157
\164
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
```

```
# Microsoft Code Signing Only Certificate
# Certificate "ECRaizEstado"
# Issuer: CN=ECRaizEstado,O=SCEE,C=PT
# Serial Number:42:ea:5b:0a:51:11:26:7c:d8:27:74:b7:df:7f:71
# Subject: CN=ECRaizEstado,O=SCEE,C=PT
# Not Valid Before: Fri Jun 23 13:41:27 2006
# Not Valid After: Sun Jun 23 13:41:27 2030
# Fingerprint (MD5): c2:db:ab:8e:96:52:c5:ee:ae:f2:55:00:89:6d:55:95
# Fingerprint (SHA1): 39:13:85:3e:45:c4:39:a2:da:71:8c:df:b6:f3:e0:33:e0:4f:ee:71
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL
 UTF8 "ECRaizEstado"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\063\061\013\060\011\006\003\125\004\006\023\002\120\124\061
\015\060\013\006\003\125\004\012\014\004\123\103\105\105\061\025
\060\023\006\003\125\004\003\014\014\105\103\122\141\151\172\105
\163\164\141\144\157
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\063\061\013\060\011\006\003\125\004\006\023\002\120\124\061
\015\060\013\006\003\125\004\012\014\004\123\103\105\105\061\025
\060\023\006\003\125\004\003\014\014\105\103\122\141\151\172\105
\163\164\141\144\157
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\017\102\352\133\012\121\021\046\174\330\047\164\267\337\177
\161
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\156\060\202\003\126\240\003\002\001\002\002\017\102
\352\133\012\121\021\046\174\330\047\164\267\337\177\161\060\015
\006\011\052\206\110\206\367\015\001\001\005\005\000\060\063\061
\013\060\011\006\003\125\004\006\023\002\120\124\061\015\060\013
\006\003\125\004\012\014\004\123\103\105\105\061\025\060\023\006
\003\125\004\003\014\014\105\103\122\141\151\172\105\163\164\141
\144\157\060\036\027\015\060\066\060\066\062\063\061\063\064\061
\062\067\132\027\015\063\060\060\066\062\063\061\063\064\061\062
\067\132\060\063\061\013\060\011\006\003\125\004\006\023\002\120
\124\061\015\060\013\006\003\125\004\012\014\004\123\103\105\105
\061\025\060\023\006\003\125\004\003\014\014\105\103\122\141\151
\172\105\163\164\141\144\157\060\202\002\042\060\015\006\011\052
\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060
\202\002\012\002\202\002\001\000\333\357\242\103\156\310\251\375
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\156\327\337\254\242\222\204\241\310\131\240\014\232\123\376\357
\256\314\031\015\162\212\244\302\063\043\357\347\006\162\352\155
\113\072\101\122\017\311\110\016\055\347\272\144\356\242\072\114
\143\134\146\051\213\337\251\210\305\275\350\361\367\216\113\374
\001\074\104\022\071\052\160\242\300\333\305\242\337\137\307\113
\306\250\334\075\141\174\112\130\301\104\062\223\336\160\231\241
\043\046\126\077\243\341\352\137\060\106\330\170\365\060\243\226
\011\211\260\075\361\206\223\005\266\022\152\030\215\360\245\144
\073\053\207\144\136\075\027\216\013\156\346\230\314\227\070\070
\040\214\160\132\151\053\275\145\215\315\067\131\134\154\321\162
\164\131\006\116\310\267\001\327\167\277\360\110\206\250\263\032
\135\101\324\067\027\021\020\137\112\156\215\165\305\003\100\175
\041\256\000\360\333\374\237\154\072\146\244\337\367\312\337\200
\146\132\331\330\177\024\242\046\031\364\256\013\041\340\312\076
\005\335\026\330\176\131\332\241\260\151\303\235\064\023\372\145
\111\071\207\356\166\057\215\275\074\047\031\003\116\255\016\013
\053\054\306\056\161\023\065\051\127\351\160\334\033\121\352\315
\227\361\225\215\262\206\372\046\006\057\200\032\225\361\230\073
\356\366\345\206\245\316\033\001\345\364\351\063\312\017\125\104
\137\150\212\054\307\133\146\050\335\226\113\203\235\136\035\176
\030\325\376\262\140\373\232\121\150\303\226\214\037\150\113\120
\122\013\066\346\061\047\344\327\051\014\033\332\033\057\341\004
\123\270\324\171\111\260\073\201\136\010\210\042\167\342\051\300
\256\162\252\253\264\162\122\275\154\273\365\272\170\331\234\270
\040\157\060\215\112\235\062\371\364\001\346\142\171\230\102\100
\005\172\157\034\052\077\265\373\337\315\030\100\216\345\020\304
\071\133\126\361\074\127\005\253\322\071\115\077\370\213\043\307
\153\271\100\261\342\376\377\263\034\012\151\037\233\214\017\264
\037\340\012\336\110\375\215\137\217\231\365\001\166\005\066\135
\216\334\063\216\121\156\021\342\101\375\314\267\215\052\137\076
\222\345\362\261\340\244\043\342\242\267\306\215\030\233\051\112
\321\106\177\364\144\040\030\335\002\003\001\000\001\243\177\060
\175\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001
\001\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002
\001\006\060\035\006\003\125\035\016\004\026\004\024\161\177\065
\336\365\167\161\155\035\022\234\341\220\244\272\360\251\203\217
\200\060\073\006\003\125\035\040\004\064\060\062\060\060\006\004
\125\035\040\000\060\050\060\046\006\010\053\006\001\005\005\007
\002\001\026\032\150\164\164\160\072\057\057\167\167\167\056\145
\143\145\145\056\147\157\166\056\160\164\057\144\160\143\060\015
\006\011\052\206\110\206\367\015\001\001\005\005\000\003\202\002
\001\000\214\255\234\162\245\265\147\166\147\070\207\351\072\214
\376\235\131\065\276\220\361\003\000\240\130\330\230\321\277\374
\374\363\120\334\264\145\325\332\272\360\214\056\174\015\346\011
\221\137\115\243\366\135\170\234\130\135\152\160\224\243\257\333
\057\000\311\003\100\153\337\121\003\026\031\214\053\274\231\066
\366\300\255\222\030\023\214\247\355\035\322\337\003\220\005\354
\260\223\230\233\367\115\132\023\370\347\233\367\066\166\336\174

\046\370\021\070\117\111\116\263\163\037\137\047\133\341\236\062
\036\366\300\230\033\331\040\054\134\226\215\206\311\013\105\327
\222\255\212\275\352\127\242\243\126\266\040\074\354\262\307\071
\176\260\200\376\275\121\053\052\264\303\162\151\303\371\107\056
\156\377\234\207\355\334\165\313\020\210\340\264\316\056\016\123
\035\013\350\156\036\102\114\320\276\071\170\165\311\024\336\047
\221\163\252\354\152\200\360\360\027\226\142\117\276\004\313\342
\247\345\135\017\223\105\313\131\110\046\023\336\335\261\365\012
\332\026\261\250\035\217\176\130\033\267\325\011\336\210\153\316
\204\076\250\276\122\142\312\322\241\241\307\313\074\026\340\166
\126\060\077\346\017\153\006\167\376\144\235\132\152\163\174\356
\336\041\351\232\111\227\067\266\204\177\242\221\076\105\373\327
\132\006\305\207\065\334\272\110\114\206\001\010\107\066\266\070
\120\225\021\231\163\321\067\111\012\372\102\117\057\020\124\323
\101\220\372\310\334\273\021\334\015\314\175\174\233\334\016\221
\161\206\115\270\362\025\232\053\070\027\021\241\362\236\250\154
\234\343\316\256\342\346\113\213\362\212\006\073\007\167\002\021
\356\203\352\235\146\206\312\360\142\251\325\127\203\244\025\361
\105\024\376\032\165\177\245\017\334\122\164\131\165\012\370\373
\125\101\251\134\215\061\104\335\315\224\116\063\321\033\101\252
\333\327\241\074\360\305\110\155\105\101\065\265\171\203\346\371
\115\361\126\070\327\277\100\042\373\040\200\343\034\302\131\106
\007\143\002\141\000\073\233\120\273\103\303\260\351\012\232\270
\166\364\107\141\125\144\160\117\067\331\234\021\243\023\262\341
\335\100\102\273\230\327\240\006\213\346\150\127\113\016\070\150
\177\272
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "ECRaizEstado"
Issuer: CN=ECRaizEstado,O=SCEE,C=PT
Serial Number:42:ea:5b:0a:51:11:26:7c:d8:27:74:b7:df:7f:71
Subject: CN=ECRaizEstado,O=SCEE,C=PT
Not Valid Before: Fri Jun 23 13:41:27 2006
Not Valid After: Sun Jun 23 13:41:27 2030
Fingerprint (MD5): c2:db:ab:8e:96:52:c5:ee:ae:f2:55:00:89:6d:55:95
Fingerprint (SHA1): 39:13:85:3e:45:c4:39:a2:da:71:8c:df:b6:f3:e0:33:e0:4f:ee:71
CKA_CLASS CK_OBJECT_CLASS
 CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ECRaizEstado"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL

```
\071\023\205\076\105\304\071\242\332\161\214\337\266\363\340\063
\340\117\356\161
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\302\333\253\216\226\122\305\356\256\362\125\000\211\155\125\225
END
CKA_ISSUER MULTILINE_OCTAL
\060\063\061\013\060\011\006\003\125\004\006\023\002\120\124\061
\015\060\013\006\003\125\004\012\014\004\123\103\105\105\061\025
\060\023\006\003\125\004\003\014\014\105\103\122\141\151\172\105
\163\164\141\144\157
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\017\102\352\133\012\121\021\046\174\330\047\164\267\337\177
\161
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Configuration"
#
 Issuer: CN=Posta CA Root,CN=AIA,CN=Public Key
Services,CN=Services,CN=Configuration,DC=ca,DC=posta,DC=rs
# Serial Number:48:fc:7e:f5
# Subject: CN=Posta CA Root,CN=AIA,CN=Public Key
Services,CN=Services,CN=Configuration,DC=ca,DC=posta,DC=rs
# Not Valid Before: Mon Oct 20 12:22:08 2008
# Not Valid After: Fri Oct 20 12:52:08 2028
# Fingerprint (MD5): 18:02:b0:01:27:03:6a:19:1b:32:3b:83:de:9a:a9:85
# Fingerprint (SHA1): d6:bf:79:94:f4:2b:e5:fa:29:da:0b:d7:58:7b:59:1f:47:a4:4f:22
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Configuration"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\256\061\022\060\020\006\012\011\222\046\211\223\362\054
\144\001\031\026\002\162\163\061\025\060\023\006\012\011\222\046
\211\223\362\054\144\001\031\026\005\160\157\163\164\141\061\022
\060\020\006\012\011\222\046\211\223\362\054\144\001\031\026\002
\143\141\061\026\060\024\006\003\125\004\003\023\015\103\157\156
\146\151\147\165\162\141\164\151\157\156\061\021\060\017\006\003
\125\004\003\023\010\123\145\162\166\151\143\145\163\061\034\060
\032\006\003\125\004\003\023\023\120\165\142\154\151\143\040\113
```

\145\171\040\123\145\162\166\151\143\145\163\061\014\060\012\006
\003\125\004\003\023\003\101\111\101\061\026\060\024\006\003\125
\004\003\023\015\120\157\163\164\141\040\103\101\040\122\157\157
\164
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\256\061\022\060\020\006\012\011\222\046\211\223\362\054
\144\001\031\026\002\162\163\061\025\060\023\006\012\011\222\046
\211\223\362\054\144\001\031\026\005\160\157\163\164\141\061\022
\060\020\006\012\011\222\046\211\223\362\054\144\001\031\026\002
\143\141\061\026\060\024\006\003\125\004\003\023\015\103\157\156
\146\151\147\165\162\141\164\151\157\156\061\021\060\017\006\003
\125\004\003\023\010\123\145\162\166\151\143\145\163\061\034\060
\032\006\003\125\004\003\023\023\120\165\142\154\151\143\040\113
\145\171\040\123\145\162\166\151\143\145\163\061\014\060\012\006
\003\125\004\003\023\003\101\111\101\061\026\060\024\006\003\125
\004\003\023\015\120\157\163\164\141\040\103\101\040\122\157\157
\164
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\004\110\374\176\365
END
CKA_VALUE MULTILINE_OCTAL
\060\202\007\037\060\202\006\007\240\003\002\001\002\002\004\110
\374\176\365\060\015\006\011\052\206\110\206\367\015\001\001\005
\005\000\060\201\256\061\022\060\020\006\012\011\222\046\211\223
\362\054\144\001\031\026\002\162\163\061\025\060\023\006\012\011
\222\046\211\223\362\054\144\001\031\026\005\160\157\163\164\141
\061\022\060\020\006\012\011\222\046\211\223\362\054\144\001\031
\026\002\143\141\061\026\060\024\006\003\125\004\003\023\015\103
\157\156\146\151\147\165\162\141\164\151\157\156\061\021\060\017
\006\003\125\004\003\023\010\123\145\162\166\151\143\145\163\061
\034\060\032\006\003\125\004\003\023\023\120\165\142\154\151\143
\040\113\145\171\040\123\145\162\166\151\143\145\163\061\014\060
\012\006\003\125\004\003\023\003\101\111\101\061\026\060\024\006
\003\125\004\003\023\015\120\157\163\164\141\040\103\101\040\122
\157\157\164\060\036\027\015\060\070\061\060\062\060\061\062\062
\062\060\070\132\027\015\062\070\061\060\062\060\061\062\065\062
\060\070\132\060\201\256\061\022\060\020\006\012\011\222\046\211
\223\362\054\144\001\031\026\002\162\163\061\025\060\023\006\012
\011\222\046\211\223\362\054\144\001\031\026\005\160\157\163\164
\141\061\022\060\020\006\012\011\222\046\211\223\362\054\144\001
\031\026\002\143\141\061\026\060\024\006\003\125\004\003\023\015
\103\157\156\146\151\147\165\162\141\164\151\157\156\061\021\060
\017\006\003\125\004\003\023\010\123\145\162\166\151\143\145\163

\061\034\060\032\006\003\125\004\003\023\023\120\165\142\154\151
\143\040\113\145\171\040\123\145\162\166\151\143\145\163\061\014
\060\012\006\003\125\004\003\023\003\101\111\101\061\026\060\024
\006\003\125\004\003\023\015\120\157\163\164\141\040\103\101\040
\122\157\157\164\060\202\001\042\060\015\006\011\052\206\110\206
\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012
\002\202\001\001\000\250\362\275\210\276\300\257\104\276\233\112
\242\143\034\326\126\253\035\051\262\034\252\025\036\105\321\254
\235\240\141\325\065\371\344\132\203\066\143\103\336\070\127\025
\374\360\224\142\364\007\200\127\203\127\250\263\025\274\373\115
\043\170\137\332\366\307\201\026\276\253\337\347\334\203\123\163
\053\266\335\143\210\215\105\363\015\335\175\277\350\210\260\146
\301\103\135\067\322\155\241\234\232\106\303\263\077\320\302\240
\212\224\056\203\246\074\303\140\275\054\314\036\213\143\202\166
\101\050\344\025\153\134\014\141\071\125\070\101\312\310\146\350
\307\270\227\122\020\046\160\267\007\267\011\036\246\023\136\256
\231\132\046\157\144\075\354\304\323\245\271\134\166\144\255\143
\175\210\203\342\113\314\015\336\324\306\323\010\102\365\133\027
\365\161\341\221\055\003\237\236\034\334\213\162\244\350\107\144
\020\207\144\060\163\330\362\264\361\127\046\223\127\313\266\307
\015\210\213\035\317\005\060\135\004\326\166\067\350\040\062\127
\277\017\234\063\306\010\214\366\264\302\251\006\260\133\060\241
\036\055\022\272\077\002\003\001\000\001\243\202\003\101\060\202
\003\075\060\017\006\003\125\035\023\001\001\377\004\005\060\003
\001\001\377\060\016\006\003\125\035\017\001\001\377\004\004\003
\002\001\006\060\201\272\006\003\125\035\040\004\201\262\060\201
\257\060\201\254\006\013\053\006\001\004\001\372\070\012\012\001
\001\060\201\234\060\060\006\010\053\006\001\005\005\007\002\001
\026\044\150\164\164\160\072\057\057\167\167\167\056\143\141\056
\160\157\163\164\141\056\162\163\057\144\157\153\165\155\145\156
\164\141\143\151\152\141\060\150\006\010\053\006\001\005\005\007
\002\002\060\134\032\132\117\166\157\040\152\145\040\145\154\145
\153\164\162\157\156\163\153\151\040\163\145\162\164\151\146\151
\153\141\164\040\122\117\117\124\040\103\101\040\163\145\162\166
\145\162\141\040\123\145\162\164\151\146\151\153\141\143\151\157
\156\157\147\040\164\145\154\141\040\120\157\163\164\145\072\040
\042\120\157\163\164\141\040\103\101\040\122\157\157\164\042\056
\060\021\006\011\140\206\110\001\206\370\102\001\001\004\004\003
\002\000\007\060\202\001\274\006\003\125\035\037\004\202\001\263
\060\202\001\257\060\201\311\240\201\306\240\201\303\244\201\300
\060\201\275\061\022\060\020\006\012\011\222\046\211\223\362\054
\144\001\031\026\002\162\163\061\025\060\023\006\012\011\222\046
\211\223\362\054\144\001\031\026\005\160\157\163\164\141\061\022
\060\020\006\012\011\222\046\211\223\362\054\144\001\031\026\002
\143\141\061\026\060\024\006\003\125\004\003\023\015\103\157\156
\146\151\147\165\162\141\164\151\157\156\061\021\060\017\006\003
\125\004\003\023\010\123\145\162\166\151\143\145\163\061\034\060
\032\006\003\125\004\003\023\023\120\165\142\154\151\143\040\113

\145\171\040\123\145\162\166\151\143\145\163\061\014\060\012\006
\003\125\004\003\023\003\101\111\101\061\026\060\024\006\003\125
\004\003\023\015\120\157\163\164\141\040\103\101\040\122\157\157
\164\061\015\060\013\006\003\125\004\003\023\004\103\122\114\061
\060\201\340\240\201\335\240\201\332\206\201\243\154\144\141\160
\072\057\057\154\144\141\160\056\143\141\056\160\157\163\164\141
\056\162\163\057\143\156\075\120\157\163\164\141\045\062\060\103
\101\045\062\060\122\157\157\164\054\143\156\075\101\111\101\054
\143\156\075\120\165\142\154\151\143\045\062\060\113\145\171\045
\062\060\123\145\162\166\151\143\145\163\054\143\156\075\123\145
\162\166\151\143\145\163\054\143\156\075\103\157\156\146\151\147
\165\162\141\164\151\157\156\054\144\143\075\143\141\054\144\143
\075\160\157\163\164\141\054\144\143\075\162\163\077\143\145\162
\164\151\146\151\143\141\164\145\122\145\166\157\143\141\164\151
\157\156\114\151\163\164\045\063\102\142\151\156\141\162\171\206
\062\150\164\164\160\072\057\057\163\145\162\164\151\146\151\153
\141\164\151\056\143\141\056\160\157\163\164\141\056\162\163\057
\143\162\154\057\120\157\163\164\141\103\101\122\157\157\164\056
\143\162\154\060\053\006\003\125\035\020\004\044\060\042\200\017
\062\060\060\070\061\060\062\060\061\062\062\062\060\070\132\201
\017\062\060\062\070\061\060\062\060\061\062\065\062\060\070\132
\060\037\006\003\125\035\043\004\030\060\026\200\024\362\313\215
\342\065\357\020\103\304\332\173\312\372\353\211\003\241\042\257
\270\060\035\006\003\125\035\016\004\026\004\024\362\313\215\342
\065\357\020\103\304\332\173\312\372\353\211\003\241\042\257\270
\060\035\006\011\052\206\110\206\366\175\007\101\000\004\020\060
\016\033\010\126\067\056\061\072\064\056\060\003\002\004\220\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\003\202
\001\001\000\160\106\241\310\344\027\005\146\017\235\342\103\061
\110\035\222\220\031\304\205\001\205\026\156\370\222\316\173\256
\122\026\304\227\215\012\050\175\325\313\154\343\325\345\016\062
\117\310\150\055\064\010\075\163\250\223\102\051\063\106\014\104
\147\361\320\232\234\151\001\345\221\361\015\311\151\074\063\113
\116\031\223\143\063\005\051\041\241\330\377\076\124\253\236\366
\241\172\002\327\334\377\245\076\124\170\371\323\301\312\022\225
\371\211\236\024\342\362\241\104\262\313\351\055\165\065\314\226
\125\273\070\013\210\046\332\326\254\357\323\122\242\013\113\072
\123\332\113\042\123\314\312\052\044\232\142\252\304\062\232\176
\334\314\301\262\154\315\217\331\264\300\317\365\002\300\214\053
\204\133\033\100\274\020\320\120\341\141\326\146\126\232\004\221
\245\343\325\275\240\056\042\201\261\331\070\332\344\250\207\137
\074\106\004\226\336\311\232\073\277\255\170\154\035\111\111\264
\151\271\160\017\005\222\126\266\375\257\256\370\040\055\107\043
\317\266\034\315\304\233\200\116\371\277\061\300\124\276\273\061
\177\363\076
END
CKA_NSS_MOZILLA_CA_POLICY

```
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Trust for "Configuration"
# Issuer: CN=Posta CA Root,CN=AIA,CN=Public Key
 Services,CN=Services,CN=Configuration,DC=ca,DC=posta,DC=rs
# Serial Number:48:fc:7e:f5
# Subject: CN=Posta CA Root,CN=AIA,CN=Public Key
Services,CN=Services,CN=Configuration,DC=ca,DC=posta,DC=rs
# Not Valid Before: Mon Oct 20 12:22:08 2008
# Not Valid After: Fri Oct 20 12:52:08 2028
# Fingerprint (MD5): 18:02:b0:01:27:03:6a:19:1b:32:3b:83:de:9a:a9:85
# Fingerprint (SHA1): d6:bf:79:94:f4:2b:e5:fa:29:da:0b:d7:58:7b:59:1f:47:a4:4f:22
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Configuration"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\326\277\171\224\364\053\345\372\051\332\013\327\130\173\131\037
\107\244\117\042
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\030\002\260\001\047\003\152\031\033\062\073\203\336\232\251\205
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\256\061\022\060\020\006\012\011\222\046\211\223\362\054
\144\001\031\026\002\162\163\061\025\060\023\006\012\011\222\046
\211\223\362\054\144\001\031\026\005\160\157\163\164\141\061\022
\060\020\006\012\011\222\046\211\223\362\054\144\001\031\026\002
\143\141\061\026\060\024\006\003\125\004\003\023\015\103\157\156
\146\151\147\165\162\141\164\151\157\156\061\021\060\017\006\003
\125\004\003\023\010\123\145\162\166\151\143\145\163\061\034\060
\032\006\003\125\004\003\023\023\120\165\142\154\151\143\040\113
\145\171\040\123\145\162\166\151\143\145\163\061\014\060\012\006
\003\125\004\003\023\003\101\111\101\061\026\060\024\006\003\125
\004\003\023\015\120\157\163\164\141\040\103\101\040\122\157\157
\164
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\004\110\374\176\365
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
```

```
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "StartCom Certification Authority"
# Issuer: CN=StartCom Certification Authority,OU=Secure
 Digital Certificate Signing,O=StartCom Ltd.,C=IL
# Serial Number: 1 (0x1)
# Subject: CN=StartCom Certification Authority,OU=Secure Digital Certificate Signing,O=StartCom Ltd.,C=IL
# Not Valid Before: Sun Sep 17 19:46:36 2006
# Not Valid After: Wed Sep 17 19:46:36 2036
# Fingerprint (MD5): 22:4d:8f:8a:fc:f7:35:c2:bb:57:34:90:7b:8b:22:16
# Fingerprint (SHA1): 3e:2b:f7:f2:03:1b:96:f3:8c:e6:c4:d8:a8:5d:3e:2d:58:47:6a:0f
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "StartCom Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\175\061\013\060\011\006\003\125\004\006\023\002\111\114\061
\026\060\024\006\003\125\004\012\023\015\123\164\141\162\164\103
\157\155\040\114\164\144\056\061\053\060\051\006\003\125\004\013
\023\042\123\145\143\165\162\145\040\104\151\147\151\164\141\154
\040\103\145\162\164\151\146\151\143\141\164\145\040\123\151\147
\156\151\156\147\061\051\060\047\006\003\125\004\003\023\040\123
\164\141\162\164\103\157\155\040\103\145\162\164\151\146\151\143
\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\175\061\013\060\011\006\003\125\004\006\023\002\111\114\061
\026\060\024\006\003\125\004\012\023\015\123\164\141\162\164\103
\157\155\040\114\164\144\056\061\053\060\051\006\003\125\004\013
\023\042\123\145\143\165\162\145\040\104\151\147\151\164\141\154
\040\103\145\162\164\151\146\151\143\141\164\145\040\123\151\147
\156\151\156\147\061\051\060\047\006\003\125\004\003\023\040\123
\164\141\162\164\103\157\155\040\103\145\162\164\151\146\151\143
\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\007\311\060\202\005\261\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\175\061\013\060\011\006\003\125\004\006\023\002\111\114\061\026
\060\024\006\003\125\004\012\023\015\123\164\141\162\164\103\157
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\103\145\162\164\151\146\151\143\141\164\145\040\123\151\147\156
\151\156\147\061\051\060\047\006\003\125\004\003\023\040\123\164
\141\162\164\103\157\155\040\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\060\036
\027\015\060\066\060\071\061\067\061\071\064\066\063\066\132\027
\015\063\066\060\071\061\067\061\071\064\066\063\066\132\060\175
\061\013\060\011\006\003\125\004\006\023\002\111\114\061\026\060
\024\006\003\125\004\012\023\015\123\164\141\162\164\103\157\155
\040\114\164\144\056\061\053\060\051\006\003\125\004\013\023\042
\123\145\143\165\162\145\040\104\151\147\151\164\141\154\040\103
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\156\147\061\051\060\047\006\003\125\004\003\023\040\123\164\141
\162\164\103\157\155\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\060\202\002
\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000
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\333\011\274\154\106\174\170\237\225\173\265\063\220\362\162\142
\326\301\066\040\042\044\136\316\351\167\362\103\012\242\006\144
\244\314\216\066\370\070\346\043\360\156\155\261\074\335\162\243
\205\034\241\323\075\264\063\053\323\057\257\376\352\260\101\131
\147\266\304\006\175\012\236\164\205\326\171\114\200\067\172\337
\071\005\122\131\367\364\033\106\103\244\322\205\205\322\303\161
\363\165\142\064\272\054\212\177\036\217\356\355\064\320\021\307
\226\315\122\075\272\063\326\335\115\336\013\073\112\113\237\302
\046\057\372\265\026\034\162\065\167\312\074\135\346\312\341\046
\213\032\066\166\134\001\333\164\024\045\376\355\265\240\210\017
\335\170\312\055\037\007\227\060\001\055\162\171\372\106\326\023
\052\250\271\246\253\203\111\035\345\362\357\335\344\001\216\030
\012\217\143\123\026\205\142\251\016\031\072\314\265\146\246\302
\153\164\007\344\053\341\166\076\264\155\330\366\104\341\163\142
\037\073\304\276\240\123\126\045\154\121\011\367\252\253\312\277
\166\375\155\233\363\235\333\277\075\146\274\014\126\252\257\230
\110\225\072\113\337\247\130\120\331\070\165\251\133\352\103\014
\002\377\231\353\350\154\115\160\133\051\145\234\335\252\135\314
\257\001\061\354\014\353\322\215\350\352\234\173\346\156\367\047
\146\014\032\110\327\156\102\343\077\336\041\076\173\341\015\160
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\006\013\053\006\001\004\001\201\265\067\001\001\001\060\202\001
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\144\146\060\065\006\010\053\006\001\005\005\007\002\001\026\051
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\144\151\141\164\145\056\160\144\146\060\201\320\006\010\053\006
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\362\225\020\123\062\335\200\204\146\165\331\265\150\050\373\141
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\335\245\200\071\224\140\300\064\311\226\160\054\243\022\365\037
\110\173\275\034\176\153\267\235\220\364\042\073\256\370\374\052
\312\372\202\122\240\357\257\113\125\223\353\301\265\360\042\213
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\270\014\144\300\066\322\311\057\206\022\214\043\011\301\033\202
\073\163\111\243\152\127\207\224\345\326\170\305\231\103\143\343
\115\340\167\055\341\145\231\162\151\004\032\107\011\346\017\001
\126\044\373\037\277\016\171\251\130\056\271\304\011\001\176\225
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\165\277\227\002\305\011\033\010\334\125\067\342\201\373\067\204
\103\142\040\312\347\126\113\145\352\376\154\301\044\223\044\241
\064\353\005\377\232\042\256\233\175\077\361\145\121\012\246\060
\152\263\364\210\034\200\015\374\162\212\350\203\136
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL
 CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "StartCom Certification Authority"
Issuer: CN=StartCom Certification Authority,OU=Secure Digital Certificate Signing,O=StartCom Ltd.,C=IL
Serial Number: 1 (0x1)
Subject: CN=StartCom Certification Authority,OU=Secure Digital Certificate Signing,O=StartCom Ltd.,C=IL
Not Valid Before: Sun Sep 17 19:46:36 2006
Not Valid After: Wed Sep 17 19:46:36 2036
Fingerprint (MD5): 22:4d:8f:8a:fc:f7:35:c2:bb:57:34:90:7b:8b:22:16
Fingerprint (SHA1): 3e:2b:f7:f2:03:1b:96:f3:8c:e6:c4:d8:a8:5d:3e:2d:58:47:6a:0f
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "StartCom Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\076\053\367\362\003\033\226\363\214\346\304\330\250\135\076\055

\130\107\152\017
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\042\115\217\212\374\367\065\302\273\127\064\220\173\213\042\026
END
CKA_ISSUER
 MULTILINE_OCTAL
\060\175\061\013\060\011\006\003\125\004\006\023\002\111\114\061
\026\060\024\006\003\125\004\012\023\015\123\164\141\162\164\103
\157\155\040\114\164\144\056\061\053\060\051\006\003\125\004\013
\023\042\123\145\143\165\162\145\040\104\151\147\151\164\141\154
\040\103\145\162\164\151\146\151\143\141\164\145\040\123\151\147
\156\151\156\147\061\051\060\047\006\003\125\004\003\023\040\123
\164\141\162\164\103\157\155\040\103\145\162\164\151\146\151\143
\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "VeriSign Class 3 Public Primary Certification Authority
 - G4"
Issuer: CN=VeriSign Class 3 Public Primary Certification Authority - G4,OU=(c) 2007 VeriSign\, Inc. - For
authorized use only,OU=VeriSign Trust Network,O=VeriSign\, Inc.,C=US
Serial Number:2f:80:fe:23:8c:0e:22:0f:48:67:12:28:91:87:ac:b3
Subject: CN=VeriSign Class 3 Public Primary Certification Authority - G4,OU=(c) 2007 VeriSign\, Inc. - For
authorized use only,OU=VeriSign Trust Network,O=VeriSign\, Inc.,C=US
Not Valid Before: Mon Nov 05 00:00:00 2007
Not Valid After: Mon Jan 18 23:59:59 2038
Fingerprint (MD5): 3a:52:e1:e7:fd:6f:3a:e3:6f:f3:6f:99:1b:f9:22:41
Fingerprint (SHA1): 22:d5:d8:df:8f:02:31:d1:8d:f7:9d:b7:cf:8a:2d:64:c9:3f:6c:3a
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "VeriSign Class 3 Public Primary Certification Authority - G4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\312\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\027\060\025\006\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003

\125\004\013\023\061\050\143\051\040\062\060\060\067\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040
\063\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\064
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\312\061\013\060\011\006\003\125\004\006\023\002\125\123
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\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\061\050\143\051\040\062\060\060\067\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040
\063\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\064
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
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\254\263
END
CKA_VALUE MULTILINE_OCTAL
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\012\006\010\052\206\110\316\075\004\003\003\060\201\312\061\013
\060\011\006\003\125\004\006\023\002\125\123\061\027\060\025\006
\003\125\004\012\023\016\126\145\162\151\123\151\147\156\054\040
\111\156\143\056\061\037\060\035\006\003\125\004\013\023\026\126
\145\162\151\123\151\147\156\040\124\162\165\163\164\040\116\145
\164\167\157\162\153\061\072\060\070\006\003\125\004\013\023\061
\050\143\051\040\062\060\060\067\040\126\145\162\151\123\151\147
\156\054\040\111\156\143\056\040\055\040\106\157\162\040\141\165
\164\150\157\162\151\172\145\144\040\165\163\145\040\157\156\154
\171\061\105\060\103\006\003\125\004\003\023\074\126\145\162\151
\123\151\147\156\040\103\154\141\163\163\040\063\040\120\165\142
\154\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171\040\055\040\107\064\060\036\027\015\060\067\061\061

\060\065\060\060\060\060\060\060\132\027\015\063\070\060\061\061
\070\062\063\065\071\065\071\132\060\201\312\061\013\060\011\006
\003\125\004\006\023\002\125\123\061\027\060\025\006\003\125\004
\012\023\016\126\145\162\151\123\151\147\156\054\040\111\156\143
\056\061\037\060\035\006\003\125\004\013\023\026\126\145\162\151
\123\151\147\156\040\124\162\165\163\164\040\116\145\164\167\157
\162\153\061\072\060\070\006\003\125\004\013\023\061\050\143\051
\040\062\060\060\067\040\126\145\162\151\123\151\147\156\054\040
\111\156\143\056\040\055\040\106\157\162\040\141\165\164\150\157
\162\151\172\145\144\040\165\163\145\040\157\156\154\171\061\105
\060\103\006\003\125\004\003\023\074\126\145\162\151\123\151\147
\156\040\103\154\141\163\163\040\063\040\120\165\142\154\151\143
\040\120\162\151\155\141\162\171\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
\040\055\040\107\064\060\166\060\020\006\007\052\206\110\316\075
\002\001\006\005\053\201\004\000\042\003\142\000\004\247\126\172
\174\122\332\144\233\016\055\134\330\136\254\222\075\376\001\346
\031\112\075\024\003\113\372\140\047\040\331\203\211\151\372\124
\306\232\030\136\125\052\144\336\006\366\215\112\073\255\020\074
\145\075\220\210\004\211\340\060\141\263\256\135\001\247\173\336
\174\262\276\312\145\141\000\206\256\332\217\173\320\211\255\115
\035\131\232\101\261\274\107\200\334\236\142\303\371\243\201\262
\060\201\257\060\017\006\003\125\035\023\001\001\377\004\005\060
\003\001\001\377\060\016\006\003\125\035\017\001\001\377\004\004
\003\002\001\006\060\155\006\010\053\006\001\005\005\007\001\014
\004\141\060\137\241\135\240\133\060\131\060\127\060\125\026\011
\151\155\141\147\145\057\147\151\146\060\041\060\037\060\007\006
\005\053\016\003\002\032\004\024\217\345\323\032\206\254\215\216
\153\303\317\200\152\324\110\030\054\173\031\056\060\045\026\043
\150\164\164\160\072\057\057\154\157\147\157\056\166\145\162\151
\163\151\147\156\056\143\157\155\057\166\163\154\157\147\157\056
\147\151\146\060\035\006\003\125\035\016\004\026\004\024\263\026
\221\375\356\246\156\344\265\056\111\217\207\170\201\200\354\345
\261\265\060\012\006\010\052\206\110\316\075\004\003\003\003\150
\000\060\145\002\060\146\041\014\030\046\140\132\070\173\126\102
\340\247\374\066\204\121\221\040\054\166\115\103\075\304\035\204
\043\320\254\326\174\065\006\316\315\151\275\220\015\333\154\110
\102\035\016\252\102\002\061\000\234\075\110\071\043\071\130\032
\025\022\131\152\236\357\325\131\262\035\122\054\231\161\315\307
\051\337\033\052\141\173\161\321\336\363\300\345\015\072\112\252
\055\247\330\206\052\335\056\020
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate

```
# Trust for "VeriSign Class 3 Public Primary Certification Authority - G4"
# Issuer: CN=VeriSign Class 3 Public Primary Certification Authority - G4,OU=(c) 2007 VeriSign\, Inc. - For
authorized use only,OU=VeriSign Trust Network,O=VeriSign\, Inc.,C=US
# Serial Number:2f:80:fe:23:8c:0e:22:0f:48:67:12:28:91:87:ac:b3
# Subject:
 CN=VeriSign Class 3 Public Primary Certification Authority - G4,OU=(c) 2007 VeriSign\, Inc. - For authorized
use only,OU=VeriSign Trust Network,O=VeriSign\, Inc.,C=US
# Not Valid Before: Mon Nov 05 00:00:00 2007
# Not Valid After: Mon Jan 18 23:59:59 2038
# Fingerprint (MD5): 3a:52:e1:e7:fd:6f:3a:e3:6f:f3:6f:99:1b:f9:22:41
# Fingerprint (SHA1): 22:d5:d8:df:8f:02:31:d1:8d:f7:9d:b7:cf:8a:2d:64:c9:3f:6c:3a
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "VeriSign Class 3 Public Primary Certification Authority - G4"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\042\325\330\337\217\002\061\321\215\367\235\267\317\212\055\144
\311\077\154\072
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\072\122\341\347\375\157\072\343\157\363\157\231\033\371\042\101
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\312\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\027\060\025\006\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\061\050\143\051\040\062\060\060\067\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040
\063\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\064
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\057\200\376\043\214\016\042\017\110\147\022\050\221\207
\254\263
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED
```

```
 CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "thawte Primary Root CA - G2"
# Issuer: CN=thawte Primary Root CA - G2,OU=(c) 2007 thawte\, Inc. - For authorized use only,O=thawte\,
Inc.,C=US
# Serial Number:35:fc:26:5c:d9:84:4f:c9:3d:26:3d:57:9b:ae:d7:56
# Subject: CN=thawte Primary Root CA - G2,OU=(c) 2007 thawte\, Inc. - For authorized use only,O=thawte\,
Inc.,C=US
# Not Valid Before: Mon Nov 05 00:00:00 2007
# Not Valid After: Mon Jan 18 23:59:59 2038
# Fingerprint (MD5): 74:9d:ea:60:24:c4:fd:22:53:3e:cc:3a:72:d9:29:4f
# Fingerprint (SHA1): aa:db:bc:22:23:8f:c4:01:a1:27:bb:38:dd:f4:1d:db:08:9e:f0:12
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "thawte Primary Root CA - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\204\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\025\060\023\006\003\125\004\012\023\014\164\150\141\167\164
\145\054\040\111\156\143\056\061\070\060\066\006\003\125\004\013
\023\057\050\143\051\040\062\060\060\067\040\164\150\141\167\164
\145\054\040\111\156\143\056\040\055\040\106\157\162\040\141\165
\164\150\157\162\151\172\145\144\040\165\163\145\040\157\156\154
\171\061\044\060\042\006\003\125\004\003\023\033\164\150\141\167
\164\145\040\120\162\151\155\141\162\171\040\122\157\157\164\040
\103\101\040\055\040\107\062
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\204\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\025\060\023\006\003\125\004\012\023\014\164\150\141\167\164
\145\054\040\111\156\143\056\061\070\060\066\006\003\125\004\013
\023\057\050\143\051\040\062\060\060\067\040\164\150\141\167\164
\145\054\040\111\156\143\056\040\055\040\106\157\162\040\141\165
\164\150\157\162\151\172\145\144\040\165\163\145\040\157\156\154
\171\061\044\060\042\006\003\125\004\003\023\033\164\150\141\167
\164\145\040\120\162\151\155\141\162\171\040\122\157\157\164\040
\103\101\040\055\040\107\062
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\065\374\046\134\331\204\117\311\075\046\075\127\233\256
\327\126
END
```

CKA_VALUE MULTILINE_OCTAL
\060\202\002\210\060\202\002\015\240\003\002\001\002\002\020\065
\374\046\134\331\204\117\311\075\046\075\127\233\256\327\126\060
\012\006\010\052\206\110\316\075\004\003\003\060\201\204\061\013
\060\011\006\003\125\004\006\023\002\125\123\061\025\060\023\006
\003\125\004\012\023\014\164\150\141\167\164\145\054\040\111\156
\143\056\061\070\060\066\006\003\125\004\013\023\057\050\143\051
\040\062\060\060\067\040\164\150\141\167\164\145\054\040\111\156
\143\056\040\055\040\106\157\162\040\141\165\164\150\157\162\151
\172\145\144\040\165\163\145\040\157\156\154\171\061\044\060\042
\006\003\125\004\003\023\033\164\150\141\167\164\145\040\120\162
\151\155\141\162\171\040\122\157\157\164\040\103\101\040\055\040
\107\062\060\036\027\015\060\067\061\061\060\065\060\060\060\060
\060\060\132\027\015\063\070\060\061\061\070\062\063\065\071\065
\071\132\060\201\204\061\013\060\011\006\003\125\004\006\023\002
\125\123\061\025\060\023\006\003\125\004\012\023\014\164\150\141
\167\164\145\054\040\111\156\143\056\061\070\060\066\006\003\125
\004\013\023\057\050\143\051\040\062\060\060\067\040\164\150\141
\167\164\145\054\040\111\156\143\056\040\055\040\106\157\162\040
\141\165\164\150\157\162\151\172\145\144\040\165\163\145\040\157
\156\154\171\061\044\060\042\006\003\125\004\003\023\033\164\150
\141\167\164\145\040\120\162\151\155\141\162\171\040\122\157\157
\164\040\103\101\040\055\040\107\062\060\166\060\020\006\007\052
\206\110\316\075\002\001\006\005\053\201\004\000\042\003\142\000
\004\242\325\234\202\173\225\235\361\122\170\207\376\212\026\277
\005\346\337\243\002\117\015\007\306\000\121\272\014\002\122\055
\042\244\102\071\304\376\217\352\311\301\276\324\115\377\237\172
\236\342\261\174\232\255\247\206\011\163\207\321\347\232\343\172
\245\252\156\373\272\263\160\300\147\210\242\065\324\243\232\261
\375\255\302\357\061\372\250\271\363\373\010\306\221\321\373\051
\225\243\102\060\100\060\017\006\003\125\035\023\001\001\377\004
\005\060\003\001\001\377\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\006\060\035\006\003\125\035\016\004\026\004
\024\232\330\000\060\000\347\153\177\205\030\356\213\266\316\212
\014\370\021\341\273\060\012\006\010\052\206\110\316\075\004\003
\003\003\151\000\060\146\002\061\000\335\370\340\127\107\133\247
\346\012\303\275\365\200\212\227\065\015\033\211\074\124\206\167
\050\312\241\364\171\336\265\346\070\260\360\145\160\214\177\002
\124\302\277\377\330\241\076\331\317\002\061\000\304\215\224\374
\334\123\322\334\235\170\026\037\025\063\043\123\122\343\132\061
\135\235\312\256\275\023\051\104\015\047\133\250\347\150\234\022
\367\130\077\056\162\002\127\243\217\241\024\056
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

```
# Microsoft
 Code Signing Only Certificate
# Trust for "thawte Primary Root CA - G2"
# Issuer: CN=thawte Primary Root CA - G2,OU=(c) 2007 thawte\, Inc. - For authorized use only,O=thawte\,
Inc.,C=US
# Serial Number:35:fc:26:5c:d9:84:4f:c9:3d:26:3d:57:9b:ae:d7:56
# Subject: CN=thawte Primary Root CA - G2,OU=(c) 2007 thawte\, Inc. - For authorized use only,O=thawte\,
Inc.,C=US
# Not Valid Before: Mon Nov 05 00:00:00 2007
# Not Valid After: Mon Jan 18 23:59:59 2038
# Fingerprint (MD5): 74:9d:ea:60:24:c4:fd:22:53:3e:cc:3a:72:d9:29:4f
# Fingerprint (SHA1): aa:db:bc:22:23:8f:c4:01:a1:27:bb:38:dd:f4:1d:db:08:9e:f0:12
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "thawte Primary Root CA - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\252\333\274\042\043\217\304\001\241\047\273\070\335\364\035\333
\010\236\360\022
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\164\235\352\140\044\304\375\042\123\076\314\072\162\331\051\117
END
CKA_ISSUER
 MULTILINE_OCTAL
\060\201\204\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\025\060\023\006\003\125\004\012\023\014\164\150\141\167\164
\145\054\040\111\156\143\056\061\070\060\066\006\003\125\004\013
\023\057\050\143\051\040\062\060\060\067\040\164\150\141\167\164
\145\054\040\111\156\143\056\040\055\040\106\157\162\040\141\165
\164\150\157\162\151\172\145\144\040\165\163\145\040\157\156\154
\171\061\044\060\042\006\003\125\004\003\023\033\164\150\141\167
\164\145\040\120\162\151\155\141\162\171\040\122\157\157\164\040
\103\101\040\055\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\065\374\046\134\331\204\117\311\075\046\075\127\233\256
\327\126
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "GeoTrust Primary
```

```
 Certification Authority - G2"
# Issuer: CN=GeoTrust Primary Certification Authority - G2,OU=(c) 2007 GeoTrust Inc. - For authorized use
only,O=GeoTrust Inc.,C=US
# Serial Number:3c:b2:f4:48:0a:00:e2:fe:eb:24:3b:5e:60:3e:c3:6b
# Subject: CN=GeoTrust Primary Certification Authority - G2,OU=(c) 2007 GeoTrust Inc. - For authorized use
only,O=GeoTrust Inc.,C=US
# Not Valid Before: Mon Nov 05 00:00:00 2007
# Not Valid After: Mon Jan 18 23:59:59 2038
# Fingerprint (MD5): 01:5e:d8:6b:bd:6f:3d:8e:a1:31:f8:12:e0:98:73:6a
# Fingerprint (SHA1): 8d:17:84:d5:37:f3:03:7d:ec:70:fe:57:8b:51:9a:99:e6:10:d7:b0
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Primary Certification Authority - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\230\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162
\165\163\164\040\111\156\143\056\061\071\060\067\006\003\125\004
\013\023\060\050\143\051\040\062\060\060\067\040\107\145\157\124
\162\165\163\164\040\111\156\143\056\040\055\040\106\157\162\040
\141\165\164\150\157\162\151\172\145\144\040\165\163\145\040\157
\156\154\171\061\066\060\064\006\003\125\004\003\023\055\107\145
\157\124\162\165\163\164\040\120\162\151\155\141\162\171\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164
\150\157\162\151\164\171\040\055\040\107\062
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\230\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162
\165\163\164\040\111\156\143\056\061\071\060\067\006\003\125\004
\013\023\060\050\143\051\040\062\060\060\067\040\107\145\157\124
\162\165\163\164\040\111\156\143\056\040\055\040\106\157\162\040
\141\165\164\150\157\162\151\172\145\144\040\165\163\145\040\157
\156\154\171\061\066\060\064\006\003\125\004\003\023\055\107\145
\157\124\162\165\163\164\040\120\162\151\155\141\162\171\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164
\150\157\162\151\164\171\040\055\040\107\062
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\074\262\364\110\012\000\342\376\353\044\073\136\140\076
\303\153
END
CKA_VALUE MULTILINE_OCTAL
```

\060\202\002\256\060\202\002\065\240\003\002\001\002\002\020\074
\262\364\110\012\000\342\376\353\044\073\136\140\076\303\153\060
\012\006\010\052\206\110\316\075\004\003\003\060\201\230\061\013
\060\011\006\003\125\004\006\023\002\125\123\061\026\060\024\006
\003\125\004\012\023\015\107\145\157\124\162\165\163\164\040\111
\156\143\056\061\071\060\067\006\003\125\004\013\023\060\050\143
\051\040\062\060\060\067\040\107\145\157\124\162\165\163\164\040
\111\156\143\056\040\055\040\106\157\162\040\141\165\164\150\157
\162\151\172\145\144\040\165\163\145\040\157\156\154\171\061\066
\060\064\006\003\125\004\003\023\055\107\145\157\124\162\165\163
\164\040\120\162\151\155\141\162\171\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171\040\055\040\107\062\060\036\027\015\060\067\061\061\060\065
\060\060\060\060\060\060\132\027\015\063\070\060\061\061\070\062
\063\065\071\065\071\132\060\201\230\061\013\060\011\006\003\125
\004\006\023\002\125\123\061\026\060\024\006\003\125\004\012\023
\015\107\145\157\124\162\165\163\164\040\111\156\143\056\061\071
\060\067\006\003\125\004\013\023\060\050\143\051\040\062\060\060
\067\040\107\145\157\124\162\165\163\164\040\111\156\143\056\040
\055\040\106\157\162\040\141\165\164\150\157\162\151\172\145\144
\040\165\163\145\040\157\156\154\171\061\066\060\064\006\003\125
\004\003\023\055\107\145\157\124\162\165\163\164\040\120\162\151
\155\141\162\171\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107
\062\060\166\060\020\006\007\052\206\110\316\075\002\001\006\005
\053\201\004\000\042\003\142\000\004\025\261\350\375\003\025\103
\345\254\353\207\067\021\142\357\322\203\066\122\175\105\127\013
\112\215\173\124\073\072\156\137\025\002\300\120\246\317\045\057
\175\312\110\270\307\120\143\034\052\041\010\174\232\066\330\013
\376\321\046\305\130\061\060\050\045\363\135\135\243\270\266\245
\264\222\355\154\054\237\353\335\103\211\242\074\113\110\221\035
\120\354\046\337\326\140\056\275\041\243\102\060\100\060\017\006
\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060\016
\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060\035
\006\003\125\035\016\004\026\004\024\025\137\065\127\121\125\373
\045\262\255\003\151\374\001\243\372\276\021\125\325\060\012\006
\010\052\206\110\316\075\004\003\003\003\147\000\060\144\002\060
\144\226\131\246\350\011\336\213\272\372\132\210\210\360\037\221
\323\106\250\362\112\114\002\143\373\154\137\070\333\056\101\223
\251\016\346\235\334\061\034\262\240\247\030\034\171\341\307\066
\002\060\072\126\257\232\164\154\366\373\203\340\063\323\010\137
\241\234\302\133\237\106\326\266\313\221\006\143\242\006\347\063
\254\076\250\201\022\320\313\272\320\222\013\266\236\226\252\004
\017\212
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

```
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Trust for "GeoTrust Primary Certification Authority - G2"
# Issuer: CN=GeoTrust Primary Certification Authority - G2,OU=(c) 2007 GeoTrust Inc. - For authorized use
only,O=GeoTrust Inc.,C=US
# Serial Number:3c:b2:f4:48:0a:00:e2:fe:eb:24:3b:5e:60:3e:c3:6b
# Subject: CN=GeoTrust Primary Certification Authority - G2,OU=(c) 2007 GeoTrust Inc. - For authorized use
only,O=GeoTrust Inc.,C=US
# Not Valid Before: Mon Nov 05 00:00:00 2007
# Not Valid After: Mon Jan 18 23:59:59 2038
# Fingerprint (MD5): 01:5e:d8:6b:bd:6f:3d:8e:a1:31:f8:12:e0:98:73:6a
# Fingerprint (SHA1): 8d:17:84:d5:37:f3:03:7d:ec:70:fe:57:8b:51:9a:99:e6:10:d7:b0
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL
 CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Primary Certification Authority - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\215\027\204\325\067\363\003\175\354\160\376\127\213\121\232\231
\346\020\327\260
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\001\136\330\153\275\157\075\216\241\061\370\022\340\230\163\152
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\230\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162
\165\163\164\040\111\156\143\056\061\071\060\067\006\003\125\004
\013\023\060\050\143\051\040\062\060\060\067\040\107\145\157\124
\162\165\163\164\040\111\156\143\056\040\055\040\106\157\162\040
\141\165\164\150\157\162\151\172\145\144\040\165\163\145\040\157
\156\154\171\061\066\060\064\006\003\125\004\003\023\055\107\145
\157\124\162\165\163\164\040\120\162\151\155\141\162\171\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164
\150\157\162\151\164\171\040\055\040\107\062
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\074\262\364\110\012\000\342\376\353\044\073\136\140\076
\303\153
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
```

```
# Microsoft Code Signing Only Certificate
# Certificate "VeriSign Universal Root Certification Authority"
# Issuer: CN=VeriSign Universal Root Certification Authority,OU=(c) 2008 VeriSign\, Inc. - For authorized use
only,OU=VeriSign Trust Network,O=VeriSign\, Inc.,C=US
# Serial Number:40:1a:c4:64:21:b3:13:21:03:0e:bb:e4:12:1a:c5:1d
# Subject: CN=VeriSign Universal Root Certification Authority,OU=(c) 2008 VeriSign\, Inc. - For authorized use
only,OU=VeriSign Trust Network,O=VeriSign\, Inc.,C=US
# Not Valid Before: Wed Apr 02 00:00:00 2008
# Not Valid After: Tue Dec 01 23:59:59 2037
# Fingerprint (MD5): 8e:ad:b5:01:aa:4d:81:e4:8c:1d:d1:e1:14:00:95:19
#
 Fingerprint (SHA1): 36:79:ca:35:66:87:72:30:4d:30:a5:fb:87:3b:0f:a7:7b:b7:0d:54
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "VeriSign Universal Root Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\275\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\027\060\025\006\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\061\050\143\051\040\062\060\060\070\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\070\060\066\006\003\125\004\003\023
\057\126\145\162\151\123\151\147\156\040\125\156\151\166\145\162
\163\141\154\040\122\157\157\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\275\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\027\060\025\006\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\061\050\143\051\040\062\060\060\070\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\070\060\066\006\003\125\004\003\023
\057\126\145\162\151\123\151\147\156\040\125\156\151\166\145\162
\163\141\154\040\122\157\157\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
END
```

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\100\032\304\144\041\263\023\041\003\016\273\344\022\032
\305\035
END
CKA_VALUE
MULTILINE_OCTAL
\060\202\004\271\060\202\003\241\240\003\002\001\002\002\020\100
\032\304\144\041\263\023\041\003\016\273\344\022\032\305\035\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\201
\275\061\013\060\011\006\003\125\004\006\023\002\125\123\061\027
\060\025\006\003\125\004\012\023\016\126\145\162\151\123\151\147
\156\054\040\111\156\143\056\061\037\060\035\006\003\125\004\013
\023\026\126\145\162\151\123\151\147\156\040\124\162\165\163\164
\040\116\145\164\167\157\162\153\061\072\060\070\006\003\125\004
\013\023\061\050\143\051\040\062\060\060\070\040\126\145\162\151
\123\151\147\156\054\040\111\156\143\056\040\055\040\106\157\162
\040\141\165\164\150\157\162\151\172\145\144\040\165\163\145\040
\157\156\154\171\061\070\060\066\006\003\125\004\003\023\057\126
\145\162\151\123\151\147\156\040\125\156\151\166\145\162\163\141
\154\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\060\036
\027\015\060\070\060\064\060\062\060\060\060\060\060\060\132\027
\015\063\067\061\062\060\061\062\063\065\071\065\071\132\060\201
\275\061\013\060\011\006\003\125\004\006\023\002\125\123\061\027
\060\025\006\003\125\004\012\023\016\126\145\162\151\123\151\147
\156\054\040\111\156\143\056\061\037\060\035\006\003\125\004\013
\023\026\126\145\162\151\123\151\147\156\040\124\162\165\163\164
\040\116\145\164\167\157\162\153\061\072\060\070\006\003\125\004
\013\023\061\050\143\051\040\062\060\060\070\040\126\145\162\151
\123\151\147\156\054\040\111\156\143\056\040\055\040\106\157\162
\040\141\165\164\150\157\162\151\172\145\144\040\165\163\145\040
\157\156\154\171\061\070\060\066\006\003\125\004\003\023\057\126
\145\162\151\123\151\147\156\040\125\156\151\166\145\162\163\141
\154\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\060\202
\001\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005
\000\003\202\001\017\000\060\202\001\012\002\202\001\001\000\307
\141\067\136\261\001\064\333\142\327\025\233\377\130\132\214\043
\043\326\140\216\221\327\220\230\203\172\346\130\031\070\214\305
\366\345\144\205\264\242\161\373\355\275\271\332\315\115\000\264
\310\055\163\245\307\151\161\225\037\071\074\262\104\007\234\350
\016\372\115\112\304\041\337\051\141\217\062\042\141\202\305\207
\037\156\214\174\137\026\040\121\104\321\160\117\127\352\343\034
\343\314\171\356\130\330\016\302\263\105\223\300\054\347\232\027
\053\173\000\067\172\101\063\170\341\063\342\363\020\032\177\207
\054\276\366\365\367\102\342\345\277\207\142\211\137\000\113\337
\305\335\344\165\104\062\101\072\036\161\156\151\313\013\165\106
\010\321\312\322\053\225\320\317\373\271\100\153\144\214\127\115

\374\023\021\171\204\355\136\124\366\064\237\010\001\363\020\045
\006\027\112\332\361\035\172\146\153\230\140\146\244\331\357\322
\056\202\361\360\357\011\352\104\311\025\152\342\003\156\063\323
\254\237\125\000\307\366\010\152\224\271\137\334\340\063\361\204
\140\371\133\047\021\264\374\026\362\273\126\152\200\045\215\002
\003\001\000\001\243\201\262\060\201\257\060\017\006\003\125\035
\023\001\001\377\004\005\060\003\001\001\377\060\016\006\003\125
\035\017\001\001\377\004\004\003\002\001\006\060\155\006\010\053
\006\001\005\005\007\001\014\004\141\060\137\241\135\240\133\060
\131\060\127\060\125\026\011\151\155\141\147\145\057\147\151\146
\060\041\060\037\060\007\006\005\053\016\003\002\032\004\024\217
\345\323\032\206\254\215\216\153\303\317\200\152\324\110\030\054
\173\031\056\060\045\026\043\150\164\164\160\072\057\057\154\157
\147\157\056\166\145\162\151\163\151\147\156\056\143\157\155\057
\166\163\154\157\147\157\056\147\151\146\060\035\006\003\125\035
\016\004\026\004\024\266\167\372\151\110\107\237\123\022\325\302
\352\007\062\166\007\321\227\007\031\060\015\006\011\052\206\110
\206\367\015\001\001\013\005\000\003\202\001\001\000\112\370\370
\260\003\346\054\147\173\344\224\167\143\314\156\114\371\175\016
\015\334\310\271\065\271\160\117\143\372\044\372\154\203\214\107
\235\073\143\363\232\371\166\062\225\221\261\167\274\254\232\276
\261\344\061\041\306\201\225\126\132\016\261\302\324\261\246\131
\254\361\143\313\270\114\035\131\220\112\357\220\026\050\037\132
\256\020\373\201\120\070\014\154\314\361\075\303\365\143\343\263
\343\041\311\044\071\351\375\025\146\106\364\033\021\320\115\163
\243\175\106\371\075\355\250\137\142\324\361\077\370\340\164\127
\053\030\235\201\264\304\050\332\224\227\245\160\353\254\035\276
\007\021\360\325\333\335\345\214\360\325\062\260\203\346\127\342
\217\277\276\241\252\277\075\035\265\324\070\352\327\260\134\072
\117\152\077\217\300\146\154\143\252\351\331\244\026\364\201\321
\225\024\016\175\315\225\064\331\322\217\160\163\201\173\234\176
\275\230\141\330\105\207\230\220\305\353\206\060\306\065\277\360
\377\303\125\210\203\113\357\005\222\006\161\362\270\230\223\267
\354\315\202\141\361\070\346\117\227\230\052\132\215
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "VeriSign Universal Root Certification Authority"
Issuer: CN=VeriSign Universal Root Certification Authority,OU=(c) 2008 VeriSign\, Inc. - For authorized use only,OU=VeriSign Trust Network,O=VeriSign\, Inc.,C=US
Serial Number:40:1a:c4:64:21:b3:13:21:03:0e:bb:e4:12:1a:c5:1d
Subject: CN=VeriSign Universal Root Certification Authority,OU=(c) 2008 VeriSign\, Inc. - For authorized use only,OU=VeriSign Trust Network,O=VeriSign\, Inc.,C=US
Not Valid Before: Wed Apr 02 00:00:00 2008

```
# Not Valid After: Tue Dec 01 23:59:59 2037
# Fingerprint (MD5): 8e:ad:b5:01:aa:4d:81:e4:8c:1d:d1:e1:14:00:95:19
# Fingerprint (SHA1): 36:79:ca:35:66:87:72:30:4d:30:a5:fb:87:3b:0f:a7:7b:b7:0d:54
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE
 CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "VeriSign Universal Root Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\066\171\312\065\146\207\162\060\115\060\245\373\207\073\017\247
\173\267\015\124
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\216\255\265\001\252\115\201\344\214\035\321\341\024\000\225\031
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\275\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\027\060\025\006\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\061\050\143\051\040\062\060\060\070\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\070\060\066\006\003\125\004\003\023
\057\126\145\162\151\123\151\147\156\040\125\156\151\166\145\162
\163\141\154\040\122\157\157\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\100\032\304\144\041\263\023\041\003\016\273\344\022\032
\305\035
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "thawte Primary Root CA - G3"
# Issuer: CN=thawte Primary Root CA - G3,OU=(c) 2008 thawte\, Inc. - For authorized use only,OU=Certification
Services Division,O=thawte\, Inc.,C=US
# Serial Number:60:01:97:b7:46:a7:ea:b4:b4:9a:d6:4b:2f:f7:90:fb
# Subject: CN=thawte Primary Root CA - G3,OU=(c) 2008 thawte\, Inc. - For authorized use only,OU=Certification
Services Division,O=thawte\, Inc.,C=US
# Not Valid Before: Wed Apr 02 00:00:00 2008
```

```
# Not Valid After:
 Tue Dec 01 23:59:59 2037
# Fingerprint (MD5): fb:1b:5d:43:8a:94:cd:44:c6:76:f2:43:4b:47:e7:31
# Fingerprint (SHA1): f1:8b:53:8d:1b:e9:03:b6:a6:f0:56:43:5b:17:15:89:ca:f3:6b:f2
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "thawte Primary Root CA - G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\256\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\025\060\023\006\003\125\004\012\023\014\164\150\141\167\164
\145\054\040\111\156\143\056\061\050\060\046\006\003\125\004\013
\023\037\103\145\162\164\151\146\151\143\141\164\151\157\156\040
\123\145\162\166\151\143\145\163\040\104\151\166\151\163\151\157
\156\061\070\060\066\006\003\125\004\013\023\057\050\143\051\040
\062\060\060\070\040\164\150\141\167\164\145\054\040\111\156\143
\056\040\055\040\106\157\162\040\141\165\164\150\157\162\151\172
\145\144\040\165\163\145\040\157\156\154\171\061\044\060\042\006
\003\125\004\003\023\033\164\150\141\167\164\145\040\120\162\151
\155\141\162\171\040\122\157\157\164\040\103\101\040\055\040\107
\063
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\256\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\025\060\023\006\003\125\004\012\023\014\164\150\141\167\164
\145\054\040\111\156\143\056\061\050\060\046\006\003\125\004\013
\023\037\103\145\162\164\151\146\151\143\141\164\151\157\156\040
\123\145\162\166\151\143\145\163\040\104\151\166\151\163\151\157
\156\061\070\060\066\006\003\125\004\013\023\057\050\143\051\040
\062\060\060\070\040\164\150\141\167\164\145\054\040\111\156\143
\056\040\055\040\106\157\162\040\141\165\164\150\157\162\151\172
\145\144\040\165\163\145\040\157\156\154\171\061\044\060\042\006
\003\125\004\003\023\033\164\150\141\167\164\145\040\120\162\151
\155\141\162\171\040\122\157\157\164\040\103\101\040\055\040\107
\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\140\001\227\267\106\247\352\264\264\232\326\113\057\367
\220\373
END
CKA_VALUE
 MULTILINE_OCTAL
\060\202\004\052\060\202\003\022\240\003\002\001\002\002\020\140
\001\227\267\106\247\352\264\264\232\326\113\057\367\220\373\060
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\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\201
\256\061\013\060\011\006\003\125\004\006\023\002\125\123\061\025
\060\023\006\003\125\004\012\023\014\164\150\141\167\164\145\054
\040\111\156\143\056\061\050\060\046\006\003\125\004\013\023\037
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\123\145
\162\166\151\143\145\163\040\104\151\166\151\163\151\157\156\061
\070\060\066\006\003\125\004\013\023\057\050\143\051\040\062\060
\060\070\040\164\150\141\167\164\145\054\040\111\156\143\056\040
\055\040\106\157\162\040\141\165\164\150\157\162\151\172\145\144
\040\165\163\145\040\157\156\154\171\061\044\060\042\006\003\125
\004\003\023\033\164\150\141\167\164\145\040\120\162\151\155\141
\162\171\040\122\157\157\164\040\103\101\040\055\040\107\063\060
\036\027\015\060\070\060\064\060\062\060\060\060\060\060\060\132
\027\015\063\067\061\062\060\061\062\063\065\071\065\071\132\060
\201\256\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\164\150\141\167\164\145
\054\040\111\156\143\056\061\050\060\046\006\003\125\004\013\023
\037\103\145\162\164\151\146\151\143\141\164\151\157\156\040\123
\145\162\166\151\143\145\163\040\104\151\166\151\163\151\157\156
\061\070\060\066\006\003\125\004\013\023\057\050\143\051\040\062
\060\060\070\040\164\150\141\167\164\145\054\040\111\156\143\056
\040\055\040\106\157\162\040\141\165\164\150\157\162\151\172\145
\144\040\165\163\145\040\157\156\154\171\061\044\060\042\006\003
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\141\162\171\040\122\157\157\164\040\103\101\040\055\040\107\063
\060\202\001\042\060\015\006\011\052\206\110\206\367\015\001\001
\001\005\000\003\202\001\017\000\060\202\001\012\002\202\001\001
\000\262\277\047\054\373\333\330\133\335\170\173\033\236\167\146
\201\313\076\274\174\256\363\246\047\232\064\243\150\061\161\070
\063\142\344\363\161\146\171\261\251\145\243\245\213\325\217\140
\055\077\102\314\252\153\062\300\043\313\054\101\335\344\337\374
\141\234\342\163\262\042\225\021\103\030\137\304\266\037\127\154
\012\005\130\042\310\066\114\072\174\245\321\317\206\257\210\247
\104\002\023\164\161\163\012\102\131\002\370\033\024\153\102\337
\157\137\272\153\202\242\235\133\347\112\275\036\001\162\333\113
\164\350\073\177\177\175\037\004\264\046\233\340\264\132\254\107
\075\125\270\327\260\046\122\050\001\061\100\146\330\331\044\275
\366\052\330\354\041\111\134\233\366\172\351\177\125\065\176\226
\153\215\223\223\047\313\222\273\352\254\100\300\237\302\370\200
\317\135\364\132\334\316\164\206\246\076\154\013\123\312\275\222
\316\031\006\162\346\014\134\070\151\307\004\326\274\154\316\133
\366\367\150\234\334\045\025\110\210\241\351\251\370\230\234\340
\363\325\061\050\141\021\154\147\226\215\071\231\313\302\105\044
\071\002\003\001\000\001\243\102\060\100\060\017\006\003\125\035
\023\001\001\377\004\005\060\003\001\001\377\060\016\006\003\125
\035\017\001\001\377\004\004\003\002\001\006\060\035\006\003\125
\035\016\004\026\004\024\255\154\252\224\140\234\355\344\377\372
\076\012\164\053\143\003\367\266\131\277\060\015\006\011\052\206

\110\206\367\015\001\001\013\005\000\003\202\001\001\000\032\100
\330\225\145\254\011\222\211\306\071\364\020\345\251\016\146\123
\135\170\336\372\044\221\273\347\104\121\337\306\026\064\012\357
\152\104\121\352\053\007\212\003\172\303\353\077\012\054\122\026
\240\053\103\271\045\220\077\160\251\063\045\155\105\032\050\073
\047\317\252\303\051\102\033\337\073\114\300\063\064\133\101\210
\277\153\053\145\257\050\357\262\365\303\252\146\316\173\126\356
\267\310\313\147\301\311\234\032\030\270\304\303\111\003\361\140
\016\120\315\106\305\363\167\171\367\266\025\340\070\333\307\057
\050\240\014\077\167\046\164\331\045\022\332\061\332\032\036\334
\051\101\221\042\074\151\247\273\002\362\266\134\047\003\211\364
\006\352\233\344\162\202\343\241\011\301\351\000\031\323\076\324
\160\153\272\161\246\252\130\256\364\273\351\154\266\357\207\314
\233\273\377\071\346\126\141\323\012\247\304\134\114\140\173\005
\167\046\172\277\330\007\122\054\142\367\160\143\331\071\274\157
\034\302\171\334\166\051\257\316\305\054\144\004\136\210\066\156
\061\324\100\032\142\064\066\077\065\001\256\254\143\240
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "thawte Primary Root CA - G3"
Issuer: CN=thawte Primary Root CA - G3,OU=(c) 2008 thawte\, Inc. - For authorized use only,OU=Certification Services Division,O=thawte\, Inc.,C=US
Serial Number:60:01:97:b7:46:a7:ea:b4:b4:9a:d6:4b:2f:f7:90:fb
Subject: CN=thawte Primary Root CA - G3,OU=(c) 2008 thawte\, Inc. - For authorized use only,OU=Certification Services Division,O=thawte\, Inc.,C=US
#
Not Valid Before: Wed Apr 02 00:00:00 2008
Not Valid After: Tue Dec 01 23:59:59 2037
Fingerprint (MD5): fb:1b:5d:43:8a:94:cd:44:c6:76:f2:43:4b:47:e7:31
Fingerprint (SHA1): f1:8b:53:8d:1b:e9:03:b6:a6:f0:56:43:5b:17:15:89:ca:f3:6b:f2
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "thawte Primary Root CA - G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\361\213\123\215\033\351\003\266\246\360\126\103\133\027\025\211
\312\363\153\362
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\373\033\135\103\212\224\315\104\306\166\362\103\113\107\347\061
END
CKA_ISSUER MULTILINE_OCTAL

\060\201\256\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\025\060\023\006\003\125\004\012\023\014\164\150\141\167\164
\145\054\040\111\156\143\056\061\050\060\046\006\003\125\004\013
\023\037\103\145\162\164\151\146\151\143\141\164\151\157\156\040
\123\145\162\166\151\143\145\163\040\104\151\166\151\163\151\157
\156\061\070\060\066\006\003\125\004\013\023\057\050\143\051\040
\062\060\060\070\040\164\150\141\167\164\145\054\040\111\156\143
\056\040\055\040\106\157\162\040\141\165\164\150\157\162\151\172
\145\144\040\165\163\145\040\157\156\154\171\061\044\060\042\006
\003\125\004\003\023\033\164\150\141\167\164\145\040\120\162\151
\155\141\162\171\040\122\157\157\164\040\103\101\040\055\040\107
\063
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\140\001\227\267\106\247\352\264\264\232\326\113\057\367
\220\373
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "GeoTrust Primary Certification Authority - G3"
Issuer: CN=GeoTrust Primary Certification Authority - G3,OU=(c) 2008 GeoTrust Inc. - For authorized use only,O=GeoTrust Inc.,C=US
Serial Number:15:ac:6e:94:19:b2:79:4b:41:f6:27:a9:c3:18:0f:1f
#
Subject: CN=GeoTrust Primary Certification Authority - G3,OU=(c) 2008 GeoTrust Inc. - For authorized use only,O=GeoTrust Inc.,C=US
Not Valid Before: Wed Apr 02 00:00:00 2008
Not Valid After: Tue Dec 01 23:59:59 2037
Fingerprint (MD5): b5:e8:34:36:c9:10:44:58:48:70:6d:2e:83:d4:b8:05
Fingerprint (SHA1): 03:9e:ed:b8:0b:e7:a0:3c:69:53:89:3b:20:d2:d9:32:3a:4c:2a:fd
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Primary Certification Authority - G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\230\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162
\165\163\164\040\111\156\143\056\061\071\060\067\006\003\125\004
\013\023\060\050\143\051\040\062\060\060\070\040\107\145\157\124
\162\165\163\164\040\111\156\143\056\040\055\040\106\157\162\040
\141\165\164\150\157\162\151\172\145\144\040\165\163\145\040\157

\156\154\171\061\066\060\064\006\003\125\004\003\023\055\107\145
\157\124\162\165\163\164\040\120\162\151\155\141\162\171\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164
\150\157\162\151\164\171\040\055\040\107\063
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\230\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162
\165\163\164\040\111\156\143\056\061\071\060\067\006\003\125\004
\013\023\060\050\143\051\040\062\060\060\070\040\107\145\157\124
\162\165\163\164\040\111\156\143\056\040\055\040\106\157\162\040
\141\165\164\150\157\162\151\172\145\144\040\165\163\145\040\157
\156\154\171\061\066\060\064\006\003\125\004\003\023\055\107\145
\157\124\162\165\163\164\040\120\162\151\155\141\162\171\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164
\150\157\162\151\164\171\040\055\040\107\063
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\025\254\156\224\031\262\171\113\101\366\047\251\303\030
\017\037
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\376\060\202\002\346\240\003\002\001\002\002\020\025
\254\156\224\031\262\171\113\101\366\047\251\303\030\017\037\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\201
\230\061\013\060\011\006\003\125\004\006\023\002\125\123\061\026
\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165\163
\164\040\111\156\143\056\061\071\060\067\006\003\125\004\013\023
\060\050\143\051\040\062\060\060\070\040\107\145\157\124\162\165
\163\164\040\111\156\143\056\040\055\040\106\157\162\040\141\165
\164\150\157\162\151\172\145\144\040\165\163\145\040\157\156\154
\171\061\066\060\064\006\003\125\004\003\023\055\107\145\157\124
\162\165\163\164\040\120\162\151\155\141\162\171\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171\040\055\040\107\063\060\036\027\015\060\070\060
\064\060\062\060\060\060\060\060\060\132\027\015\063\067\061\062
\060\061\062\063\065\071\065\071\132\060\201\230\061\013\060\011
\006\003\125\004\006\023\002\125\123\061\026\060\024\006\003\125
\004\012\023\015\107\145\157\124\162\165\163\164\040\111\156\143
\056\061\071\060\067\006\003\125\004\013\023\060\050\143\051\040
\062\060\060\070\040\107\145\157\124\162\165\163\164\040\111\156
\143\056\040\055\040\106\157\162\040\141\165\164\150\157\162\151
\172\145\144\040\165\163\145\040\157\156\154\171\061\066\060\064
\006\003\125\004\003\023\055\107\145\157\124\162\165\163\164\040
\120\162\151\155\141\162\171\040\103\145\162\164\151\146\151\143

\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040
\055\040\107\063\060\202\001\042\060\015\006\011\052\206\110\206
\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012
\002\202\001\001\000\334\342\136\142\130\035\063\127\071\062\063
\372\353\313\207\214\247\324\112\335\006\210\352\144\216\061\230
\245\070\220\036\230\317\056\143\053\360\106\274\104\262\211\241
\300\050\014\111\160\041\225\237\144\300\246\223\022\002\145\046
\206\306\245\211\360\372\327\204\240\160\257\117\032\227\077\006
\104\325\311\353\162\020\175\344\061\050\373\034\141\346\050\007
\104\163\222\042\151\247\003\210\154\235\143\310\122\332\230\047
\347\010\114\160\076\264\311\022\301\305\147\203\135\063\363\003
\021\354\152\320\123\342\321\272\066\140\224\200\273\141\143\154
\133\027\176\337\100\224\036\253\015\302\041\050\160\210\377\326
\046\154\154\140\004\045\116\125\176\175\357\277\224\110\336\267
\035\335\160\215\005\137\210\245\233\362\302\356\352\321\100\101
\155\142\070\035\126\006\305\003\107\121\040\031\374\173\020\013
\016\142\256\166\125\277\137\167\276\076\111\001\123\075\230\045
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\206\343\245\325\107\002\003\001\000\001\243\102\060\100\060\017
\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060
\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060
\035\006\003\125\035\016\004\026\004\024\304\171\312\216\241\116
\003\035\034\334\153\333\061\133\224\076\077\060\177\055\060\015
\006\011\052\206\110\206\367\015\001\001\013\005\000\003\202\001
\001\000\055\305\023\317\126\200\173\172\170\275\237\256\054\231
\347\357\332\337\224\136\011\151\247\347\156\150\214\275\162\276
\107\251\016\227\022\270\112\361\144\323\071\337\045\064\324\301
\315\116\201\360\017\004\304\044\263\064\226\306\246\252\060\337
\150\141\163\327\371\216\205\211\357\016\136\225\050\112\052\047
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\222\375\375\263\026\066\372\021\015\035\214\016\007\211\152\051
\126\367\162\364\335\025\234\167\065\146\127\253\023\123\330\216
\301\100\305\327\023\026\132\162\307\267\151\001\304\172\261\203
\001\150\175\215\101\241\224\030\301\045\134\374\360\376\203\002
\207\174\015\015\317\056\010\134\112\100\015\076\354\201\141\346
\044\333\312\340\016\055\007\262\076\126\334\215\365\101\205\007
\110\233\014\013\313\111\077\175\354\267\375\313\215\147\211\032
\253\355\273\036\243\000\010\010\027\052\202\134\061\135\106\212
\055\017\206\233\164\331\105\373\324\100\261\172\252\150\055\206
\262\231\042\341\301\053\307\234\370\363\137\250\202\022\353\031
\021\055
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

```
# Microsoft Code Signing Only Certificate
# Trust for "GeoTrust Primary Certification Authority - G3"
# Issuer: CN=GeoTrust Primary Certification Authority - G3,OU=(c) 2008 GeoTrust Inc. - For authorized use
only,O=GeoTrust Inc.,C=US
# Serial Number:15:ac:6e:94:19:b2:79:4b:41:f6:27:a9:c3:18:0f:1f
# Subject: CN=GeoTrust Primary Certification Authority - G3,OU=(c) 2008 GeoTrust Inc. - For authorized use
only,O=GeoTrust Inc.,C=US
# Not Valid Before: Wed Apr 02 00:00:00 2008
# Not Valid After: Tue Dec 01 23:59:59 2037
# Fingerprint (MD5): b5:e8:34:36:c9:10:44:58:48:70:6d:2e:83:d4:b8:05
#
 Fingerprint (SHA1): 03:9e:ed:b8:0b:e7:a0:3c:69:53:89:3b:20:d2:d9:32:3a:4c:2a:fd
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Primary Certification Authority - G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\003\236\355\270\013\347\240\074\151\123\211\073\040\322\331\062
\072\114\052\375
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\265\350\064\066\311\020\104\130\110\160\155\056\203\324\270\005
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\230\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162
\165\163\164\040\111\156\143\056\061\071\060\067\006\003\125\004
\013\023\060\050\143\051\040\062\060\060\070\040\107\145\157\124
\162\165\163\164\040\111\156\143\056\040\055\040\106\157\162\040
\141\165\164\150\157\162\151\172\145\144\040\165\163\145\040\157
\156\154\171\061\066\060\064\006\003\125\004\003\023\055\107\145
\157\124\162\165\163\164\040\120\162\151\155\141\162\171\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164
\150\157\162\151\164\171\040\055\040\107\063
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\025\254\156\224\031\262\171\113\101\366\047\251\303\030
\017\037
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "E-ME SSI (RCA)"
```

```
# Issuer: CN=E-ME SSI (RCA),OU=Sertifikacijas pakalpojumu dala,C=LV
# Serial Number:2e:ef:db:fb:d8:89:3d:8f:49:1c:93:72:fe:45:df:ed
# Subject: CN=E-ME SSI (RCA),OU=Sertifikacijas pakalpojumu dala,C=LV
# Not Valid Before: Tue May 19 08:45:56 2009
# Not Valid After: Wed May 19 08:48:15 2027
# Fingerprint (MD5): cb:bd:c3:68:2d:b3:cb:18:59:d3:29:52:e8:c6:64:89
# Fingerprint (SHA1): c9:32:1d:e6:b5:a8:26:66:cf:69:71:a1:8a:56:f2:d3:a8:67:56:02
CKA_CLASS
 CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "E-ME SSI (RCA)"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\120\061\013\060\011\006\003\125\004\006\023\002\114\126\061
\050\060\046\006\003\125\004\013\023\037\123\145\162\164\151\146
\151\153\141\143\151\152\141\163\040\160\141\153\141\154\160\157
\152\165\155\165\040\144\141\154\141\061\027\060\025\006\003\125
\004\003\023\016\105\055\115\105\040\123\123\111\040\050\122\103
\101\051
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\120\061\013\060\011\006\003\125\004\006\023\002\114\126\061
\050\060\046\006\003\125\004\013\023\037\123\145\162\164\151\146
\151\153\141\143\151\152\141\163\040\160\141\153\141\154\160\157
\152\165\155\165\040\144\141\154\141\061\027\060\025\006\003\125
\004\003\023\016\105\055\115\105\040\123\123\111\040\050\122\103
\101\051
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\056\357\333\373\330\211\075\217\111\034\223\162\376\105
\337\355
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\340\060\202\003\310\240\003\002\001\002\002\020\056
\357\333\373\330\211\075\217\111\034\223\162\376\105\337\355\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\120
\061\013\060\011\006\003\125\004\006\023\002\114\126\061\050\060
\046\006\003\125\004\013\023\037\123\145\162\164\151\146\151\153
\141\143\151\152\141\163\040\160\141\153\141\154\160\157\152\165
\155\165\040\144\141\154\141\061\027\060\025\006\003\125\004\003
\023\016\105\055\115\105\040\123\123\111\040\050\122\103\101\051
\060\036\027\015\060\071\060\065\061\071\060\070\064\065\065\066
\132\027\015\062\067\060\065\061\071\060\070\064\070\061\065\132
\060\120\061\013\060\011\006\003\125\004\006\023\002\114\126\061
```

\050\060\046\006\003\125\004\013\023\037\123\145\162\164\151\146
\151\153\141\143\151\152\141\163\040\160\141\153\141\154\160\157
\152\165\155\165\040\144\141\154\141\061\027\060\025\006\003\125
\004\003\023\016\105\055\115\105\040\123\123\111\040\050\122\103
\101\051\060\202\002\042\060\015\006\011\052\206\110\206\367\015
\001\001\001\005\000\003\202\002\017\000\060\202\002\012\002\202
\002\001\000\304\004\153\000\303\260\340\056\073\350\123\005\005
\010\276\310\204\047\125\326\035\212\022\342\027\042\132\154\377
\263\335\266\231\303\312\301\352\371\330\045\265\337\072\235\235
\077\122\305\351\362\254\277\211\164\212\124\256\116\317\156\362
\136\256\332\275\022\007\231\225\317\144\253\376\231\221\144\131
\214\311\276\104\152\061\233\230\352\272\352\321\041\016\050\013
\071\233\343\326\212\246\367\002\272\077\075\331\131\364\171\231
\336\323\044\233\213\160\033\052\204\326\345\011\017\046\046\044
\130\217\045\136\363\305\235\164\211\245\066\305\345\122\262\353
\350\206\223\107\156\247\051\207\244\176\334\264\243\313\062\126
\367\105\200\332\134\307\057\240\247\327\357\365\374\265\250\315
\204\225\142\370\251\053\043\073\155\323\267\222\310\352\301\274
\024\115\350\153\234\026\172\323\354\007\373\007\045\020\117\024
\207\173\222\066\316\126\202\145\113\023\046\006\330\243\243\246
\337\302\172\373\173\065\005\242\023\075\076\166\274\034\127\203
\003\121\307\064\336\132\365\074\275\066\045\234\026\017\115\316
\350\015\032\313\135\103\242\024\157\272\174\140\324\002\205\166
\305\153\052\270\105\261\134\167\107\021\255\240\045\251\146\221
\214\121\027\155\141\125\012\031\077\233\002\377\304\365\326\322
\263\351\045\123\341\004\075\217\042\320\242\145\345\256\247\264
\340\035\221\152\302\206\222\367\072\135\023\247\172\114\102\337
\132\263\112\210\104\054\357\107\272\251\257\326\317\142\163\212
\006\042\026\054\302\354\037\006\250\323\107\120\131\062\022\345
\271\235\142\065\236\312\136\012\264\235\043\210\302\323\117\054
\054\311\223\350\176\270\011\354\246\331\335\143\341\311\250\152
\150\334\204\121\254\132\022\347\073\246\265\007\012\261\252\116
\263\264\242\127\337\067\154\026\116\253\231\062\172\360\234\043
\045\213\312\232\250\214\340\070\041\264\316\367\154\141\310\342
\014\022\131\006\201\046\066\132\017\065\163\324\026\105\375\336
\225\336\326\113\134\237\163\331\276\031\275\347\277\344\125\152
\310\153\104\367\307\270\063\210\171\031\015\006\144\350\257\013
\241\165\014\122\145\272\012\043\225\161\367\143\374\176\345\214
\217\314\321\002\003\001\000\001\243\201\265\060\201\262\060\016
\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060\030
\006\010\053\006\001\005\005\007\001\003\004\014\060\012\060\010
\006\006\004\000\216\106\001\001\060\017\006\003\125\035\023\001
\001\377\004\005\060\003\001\001\377\060\035\006\003\125\035\016
\004\026\004\024\073\046\003\272\317\343\131\106\102\120\255\024
\234\277\003\073\357\326\076\061\060\020\006\011\053\006\001\004
\001\202\067\025\001\004\003\002\001\000\060\104\006\003\125\035
\040\004\075\060\073\060\071\006\013\053\006\001\004\001\201\372
\075\001\001\001\060\052\060\050\006\010\053\006\001\005\005\007

\002\001\026\034\150\164\164\160\072\057\057\167\167\167\056\145
\155\145\056\154\166\057\162\145\160\157\163\151\164\157\162\171
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\003
\202\002\001\000\205\346\246\224\344\331\106\137\235\277\223\273
\371\153\166\144\050\256\277\074\105\052\212\223\171\154\323\113
\210\206\040\153\042\046\070\075\034\023\252\353\141\227\154\056
\076\127\234\154\103\242\336\155\100\304\061\362\155\272\106\026
\263\055\306\273\246\334\345\057\261\330\301\325\221\036\021\177
\373\137\241\334\035\141\370\155\233\141\360\342\077\053\161\325
\015\313\336\337\145\077\240\157\225\233\172\313\333\065\067\051
\135\136\235\271\124\261\254\140\022\345\143\331\315\257\122\033
\005\226\023\174\332\044\165\001\255\324\236\245\313\301\022\105
\117\127\257\043\277\051\274\352\216\255\170\370\207\043\350\110
\313\100\250\276\135\063\326\354\306\006\103\302\147\052\350\343
\205\056\140\236\104\057\053\117\061\261\007\235\225\041\325\052
\222\257\200\221\323\307\051\275\315\361\025\014\237\001\356\370
\055\073\244\007\160\111\171\044\355\274\241\323\226\121\202\237
\302\310\274\336\043\232\307\120\053\232\266\170\122\252\316\225
\366\140\073\242\231\371\046\146\364\107\054\101\045\274\101\372
\326\213\177\275\137\202\174\323\105\205\264\114\330\354\263\027
\357\104\072\365\050\145\357\365\236\161\314\041\336\350\326\121
\034\020\373\100\374\111\345\134\204\027\257\252\031\136\242\355
\116\036\242\373\312\107\034\034\144\076\024\221\242\071\031\064
\210\177\221\313\073\235\031\160\352\050\373\374\120\017\314\275
\075\136\002\003\153\171\065\104\101\166\356\266\055\164\204\341
\202\161\323\045\260\323\303\231\104\253\077\342\014\245\356\275
\246\374\244\021\000\356\234\275\067\321\326\142\304\060\024\055
\020\012\227\212\210\365\045\074\226\276\106\100\032\212\300\205
\166\304\240\111\340\111\245\347\031\265\011\363\314\115\355\026
\136\232\324\323\310\151\320\330\212\067\205\153\116\344\252\007
\222\134\324\161\161\201\110\323\170\365\126\140\376\314\002\324
\000\223\037\114\222\100\227\276\162\123\171\056\046\122\276\246
\243\164\261\224\331\024\143\072\156\133\321\074\222\047\122\220
\062\132\222\322\017\116\133\013\006\072\142\345\326\047\014\001
\366\045\002\270\213\020\051\102\251\367\151\312\334\353\012\222
\113\050\061\206
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "E-ME SSI (RCA)"
Issuer: CN=E-ME SSI (RCA),OU=Sertifikacijas pakalpojumu dala,C=LV
Serial Number:2e:ef:db:fb:d8:89:3d:8f:49:1c:93:72:fe:45:df:ed
Subject: CN=E-ME SSI (RCA),OU=Sertifikacijas pakalpojumu dala,C=LV
Not Valid Before: Tue May 19 08:45:56 2009

```
# Not Valid After: Wed May 19 08:48:15 2027
# Fingerprint (MD5): cb:bd:c3:68:2d:b3:cb:18:59:d3:29:52:e8:c6:64:89
# Fingerprint (SHA1): c9:32:1d:e6:b5:a8:26:66:cf:69:71:a1:8a:56:f2:d3:a8:67:56:02
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL
 CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "E-ME SSI (RCA)"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\311\062\035\346\265\250\046\146\317\151\161\241\212\126\362\323
\250\147\126\002
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\313\275\303\150\055\263\313\030\131\323\051\122\350\306\144\211
END
CKA_ISSUER MULTILINE_OCTAL
\060\120\061\013\060\011\006\003\125\004\006\023\002\114\126\061
\050\060\046\006\003\125\004\013\023\037\123\145\162\164\151\146
\151\153\141\143\151\152\141\163\040\160\141\153\141\154\160\157
\152\165\155\165\040\144\141\154\141\061\027\060\025\006\003\125
\004\003\023\016\105\055\115\105\040\123\123\111\040\050\122\103
\101\051
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\056\357\333\373\330\211\075\217\111\034\223\162\376\105
\337\355
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
 Microsoft Code Signing Only Certificate
# Certificate "ACEDICOM Root"
# Issuer: C=ES,O=EDICOM,OU=PKI,CN=ACEDICOM Root
# Serial Number:61:8d:c7:86:3b:01:82:05
# Subject: C=ES,O=EDICOM,OU=PKI,CN=ACEDICOM Root
# Not Valid Before: Fri Apr 18 16:24:22 2008
# Not Valid After: Thu Apr 13 16:24:22 2028
# Fingerprint (MD5): 42:81:a0:e2:1c:e3:55:10:de:55:89:42:65:96:22:e6
# Fingerprint (SHA1): e0:b4:32:2e:b2:f6:a5:68:b6:54:53:84:48:18:4a:50:36:87:43:84
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ACEDICOM Root"
```

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\104\061\026\060\024\006\003\125\004\003\014\015\101\103\105
\104\111\103\117\115\040\122\157\157\164\061\014\060\012\006\003
\125\004\013\014\003\120\113\111\061\017\060\015\006\003\125\004
\012\014\006\105\104\111\103\117\115\061\013\060\011\006\003\125
\004\006\023\002\105\123
END
CKA_ID UTF8 "0"
CKA_ISSUER
 MULTILINE_OCTAL
\060\104\061\026\060\024\006\003\125\004\003\014\015\101\103\105
\104\111\103\117\115\040\122\157\157\164\061\014\060\012\006\003
\125\004\013\014\003\120\113\111\061\017\060\015\006\003\125\004
\012\014\006\105\104\111\103\117\115\061\013\060\011\006\003\125
\004\006\023\002\105\123
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\141\215\307\206\073\001\202\005
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\265\060\202\003\235\240\003\002\001\002\002\010\141
\215\307\206\073\001\202\005\060\015\006\011\052\206\110\206\367
\015\001\001\005\005\000\060\104\061\026\060\024\006\003\125\004
\003\014\015\101\103\105\104\111\103\117\115\040\122\157\157\164
\061\014\060\012\006\003\125\004\013\014\003\120\113\111\061\017
\060\015\006\003\125\004\012\014\006\105\104\111\103\117\115\061
\013\060\011\006\003\125\004\006\023\002\105\123\060\036\027\015
\060\070\060\064\061\070\061\066\062\064\062\062\132\027\015\062
\070\060\064\061\063\061\066\062\064\062\062\132\060\104\061\026
\060\024\006\003\125\004\003\014\015\101\103\105\104\111\103\117
\115\040\122\157\157\164\061\014\060\012\006\003\125\004\013\014
\003\120\113\111\061\017\060\015\006\003\125\004\012\014\006\105
\104\111\103\117\115\061\013\060\011\006\003\125\004\006\023\002
\105\123\060\202\002\042\060\015\006\011\052\206\110\206\367\015
\001\001\001\005\000\003\202\002\017\000\060\202\002\012\002\202
\002\001\000\377\222\225\341\150\006\166\264\054\310\130\110\312
\375\200\124\051\125\143\044\377\220\145\233\020\165\173\303\152
\333\142\002\001\362\030\206\265\174\132\070\261\344\130\271\373
\323\330\055\237\275\062\067\277\054\025\155\276\265\364\041\322
\023\221\331\007\255\001\005\326\363\275\167\316\137\102\201\012
\371\152\343\203\000\250\053\056\125\023\143\201\312\107\034\173
\134\026\127\172\033\203\140\004\072\076\145\303\315\001\336\336
\244\326\014\272\216\336\331\004\356\027\126\042\233\217\143\375
\115\026\013\267\173\167\214\371\045\265\321\155\231\022\056\117
\032\270\346\352\004\222\256\075\021\271\121\102\075\207\260\061
\205\257\171\132\234\376\347\116\136\222\117\103\374\253\072\255
\245\022\046\146\271\342\014\327\230\316\324\130\245\225\100\012

\267\104\235\023\164\053\302\245\353\042\025\230\020\330\213\305
\004\237\035\217\140\345\006\033\233\317\271\171\240\075\242\043
\077\102\077\153\372\034\003\173\060\215\316\154\300\277\346\033
\137\277\147\270\204\031\325\025\357\173\313\220\066\061\142\311
\274\002\253\106\137\233\376\032\150\224\064\075\220\216\255\366
\344\035\011\177\112\210\070\077\276\147\375\064\226\365\035\274
\060\164\313\070\356\325\154\253\324\374\364\000\267\000\133\205
\062\026\166\063\351\330\243\231\235\005\000\252\026\346\363\201
\175\157\175\252\206\155\255\025\164\323\304\242\161\252\364\024
\175\347\062\270\037\274\325\361\116\275\157\027\002\071\327\016
\225\102\072\307\000\076\351\046\143\021\352\013\321\112\377\030
\235\262\327\173\057\072\331\226\373\350\036\222\256\023\125\310
\331\047\366\334\110\033\260\044\301\205\343\167\235\232\244\363
\014\021\035\015\310\264\024\356\265\202\127\011\277\040\130\177
\057\042\043\330\160\313\171\154\311\113\362\251\052\310\374\207
\053\327\032\120\370\047\350\057\103\343\072\275\330\127\161\375
\316\246\122\133\371\335\115\355\345\366\157\211\355\273\223\234
\166\041\165\360\222\114\051\367\057\234\001\056\376\120\106\236
\144\014\024\263\007\133\305\302\163\154\361\007\134\105\044\024
\065\256\203\361\152\115\211\172\372\263\330\055\146\360\066\207
\365\053\123\002\003\001\000\001\243\201\252\060\201\247\060\017
\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060
\037\006\003\125\035\043\004\030\060\026\200\024\246\263\341\053
\053\111\266\327\163\241\252\224\365\001\347\163\145\114\254\120
\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\206
\060\035\006\003\125\035\016\004\026\004\024\246\263\341\053\053
\111\266\327\163\241\252\224\365\001\347\163\145\114\254\120\060
\104\006\003\125\035\040\004\075\060\073\060\071\006\004\125\035
\040\000\060\061\060\057\006\010\053\006\001\005\005\007\002\001
\026\043\150\164\164\160\072\057\057\141\143\145\144\151\143\157
\155\056\145\144\151\143\157\155\147\162\157\165\160\056\143\157
\155\057\144\157\143\060\015\006\011\052\206\110\206\367\015\001
\001\005\005\000\003\202\002\001\000\316\054\013\122\121\142\046
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\163\062\021\123\104\262\104\313\235\354\017\171\102\263\020\246
\307\015\235\313\266\372\077\072\174\352\277\210\123\033\074\367
\202\372\005\065\063\341\065\250\127\300\347\375\215\117\077\223
\062\117\170\146\003\167\007\130\351\225\310\176\076\320\171\000
\214\362\033\121\063\233\274\224\351\072\173\156\122\055\062\236
\043\244\105\373\266\056\023\260\213\030\261\335\316\325\035\247
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\344\002\356\164\021\177\114\377\170\035\065\332\346\002\064\353
\030\022\141\167\006\011\026\143\352\030\255\242\207\037\362\307
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\212\226\173\112\105\351\354\131\305\276\153\203\346\341\350\254
\265\060\036\376\005\007\200\371\341\043\015\120\217\005\230\377
\054\137\350\073\266\255\317\201\265\041\207\312\010\052\043\047

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\353\145\173\132\001\143\326\220\133\117\027\146\075\177\013\031
\243\223\143\020\122\052\237\024\026\130\342\334\245\364\241\026
\213\016\221\213\201\312\233\131\372\330\153\221\007\145\125\137
\122\037\257\072\373\220\335\151\245\133\234\155\016\054\266\372
\316\254\245\174\062\112\147\100\334\060\064\043\335\327\004\043
\146\360\374\125\200\247\373\146\031\202\065\147\142\160\071\136
\157\307\352\220\100\104\010\036\270\262\326\333\356\131\247\015
\030\171\064\274\124\030\136\123\312\064\121\355\105\012\346\216
\307\202\066\076\247\070\143\251\060\054\027\020\140\222\237\125
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\032\310\151\005\351\272\372\003\263\174\344\340\116\302\316\235
\350\266\106\015\156\176\127\072\147\224\302\313\037\234\167\112
\147\116\151\206\103\223\070\373\266\333\117\203\221\324\140\176
\113\076\053\070\007\125\230\136\244
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Trust for "ACEDICOM Root"
# Issuer: C=ES,O=EDICOM,OU=PKI,CN=ACEDICOM Root
# Serial Number:61:8d:c7:86:3b:01:82:05
# Subject: C=ES,O=EDICOM,OU=PKI,CN=ACEDICOM Root
# Not Valid Before: Fri Apr 18 16:24:22 2008
# Not Valid After: Thu Apr 13 16:24:22 2028
# Fingerprint (MD5): 42:81:a0:e2:1c:e3:55:10:de:55:89:42:65:96:22:e6
# Fingerprint (SHA1): e0:b4:32:2e:b2:f6:a5:68:b6:54:53:84:48:18:4a:50:36:87:43:84
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN
 CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ACEDICOM Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\340\264\062\056\262\366\245\150\266\124\123\204\110\030\112\120
\066\207\103\204
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\102\201\240\342\034\343\125\020\336\125\211\102\145\226\042\346
END
CKA_ISSUER MULTILINE_OCTAL
\060\104\061\026\060\024\006\003\125\004\003\014\015\101\103\105
\104\111\103\117\115\040\122\157\157\164\061\014\060\012\006\003
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\125\004\013\014\003\120\113\111\061\017\060\015\006\003\125\004
\012\014\006\105\104\111\103\117\115\061\013\060\011\006\003\125
\004\006\023\002\105\123
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\141\215\307\206\073\001\202\005
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
#
 Certificate "Autoridad Certificadora Raiz de la Secretaria de Economia"
Issuer: 1.2.840.113549.1.9.1=acrse@economia.gob.mx,O=Secretaria de Economia,OU=Direccion General de Normatividad Mercantil,CN=Autoridad Certificadora Raiz de la Secretaria de Economia,STREET=Insurgentes Sur 1940,2.5.4.17=01030,C=MX,ST=Distrito Federal,L=Alvaro Obregon
Serial Number: 1 (0x1)
Subject: 1.2.840.113549.1.9.1=acrse@economia.gob.mx,O=Secretaria de Economia,OU=Direccion General de Normatividad Mercantil,CN=Autoridad Certificadora Raiz de la Secretaria de Economia,STREET=Insurgentes Sur 1940,2.5.4.17=01030,C=MX,ST=Distrito Federal,L=Alvaro Obregon
Not Valid Before: Sun May 08 00:00:00 2005
Not Valid After: Thu May 08 00:00:00 2025
Fingerprint (MD5): 07:61:92:04:7e:a6:b9:cd:5e:6b:00:7a:e3:bf:1d:04
Fingerprint (SHA1): 34:d4:99:42:6f:9f:c2:bb:27:b0:75:ba:b6:82:aa:e5:ef:fc:ba:74
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE
 CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridad Certificadora Raiz de la Secretaria de Economia"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\202\001\061\061\027\060\025\006\003\125\004\007\023\016\101
\154\166\141\162\157\040\117\142\162\145\147\157\156\061\031\060
\027\006\003\125\004\010\023\020\104\151\163\164\162\151\164\157
\040\106\145\144\145\162\141\154\061\013\060\011\006\003\125\004
\006\023\002\115\130\061\016\060\014\006\003\125\004\021\023\005
\060\061\060\063\060\061\035\060\033\006\003\125\004\011\023\024
\111\156\163\165\162\147\145\156\164\145\163\040\123\165\162\040
\061\071\064\060\061\102\060\100\006\003\125\004\003\023\071\101
\165\164\157\162\151\144\141\144\040\103\145\162\164\151\146\151
\143\141\144\157\162\141\040\122\141\151\172\040\144\145\040\154
\141\040\123\145\143\162\145\164\141\162\151\141\040\144\145\040
\105\143\157\156\157\155\151\141\061\064\060\062\006\003\125\004
\013\023\053\104\151\162\145\143\143\151\157\156\040\107\145\156
\145\162\141\154\040\144\145\040\116\157\162\155\141\164\151\166

\151\144\141\144\040\115\145\162\143\141\156\164\151\154\061\037
\060\035\006\003\125\004\012\023\026\123\145\143\162\145\164\141
\162\151\141\040\144\145\040\105\143\157\156\157\155\151\141\061
\044\060\042\006\011\052\206\110\206\367\015\001\011\001\026\025
\141\143\162\163\145\100\145\143\157\156\157\155\151\141\056\147
\157\142\056\155\170
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\202\001\061\061\027\060\025\006\003\125\004\007\023\016\101
\154\166\141\162\157\040\117\142\162\145\147\157\156\061\031\060
\027\006\003\125\004\010\023\020\104\151\163\164\162\151\164\157
\040\106\145\144\145\162\141\154\061\013\060\011\006\003\125\004
\006\023\002\115\130\061\016\060\014\006\003\125\004\021\023\005
\060\061\060\063\060\061\035\060\033\006\003\125\004\011\023\024
\111\156\163\165\162\147\145\156\164\145\163\040\123\165\162\040
\061\071\064\060\061\102\060\100\006\003\125\004\003\023\071\101
\165\164\157\162\151\144\141\144\040\103\145\162\164\151\146\151
\143\141\144\157\162\141\040\122\141\151\172\040\144\145\040\154
\141\040\123\145\143\162\145\164\141\162\151\141\040\144\145\040
\105\143\157\156\157\155\151\141\061\064\060\062\006\003\125\004
\013\023\053\104\151\162\145\143\143\151\157\156\040\107\145\156
\145\162\141\154\040\144\145\040\116\157\162\155\141\164\151\166
\151\144\141\144\040\115\145\162\143\141\156\164\151\154\061\037
\060\035\006\003\125\004\012\023\026\123\145\143\162\145\164\141
\162\151\141\040\144\145\040\105\143\157\156\157\155\151\141\061
\044\060\042\006\011\052\206\110\206\367\015\001\011\001\026\025
\141\143\162\163\145\100\145\143\157\156\157\155\151\141\056\147
\157\142\056\155\170
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
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\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\202\001\061\061\027\060\025\006\003\125\004\007\023\016\101\154
\166\141\162\157\040\117\142\162\145\147\157\156\061\031\060\027
\006\003\125\004\010\023\020\104\151\163\164\162\151\164\157\040
\106\145\144\145\162\141\154\061\013\060\011\006\003\125\004\006
\023\002\115\130\061\016\060\014\006\003\125\004\021\023\005\060
\061\060\063\060\061\035\060\033\006\003\125\004\011\023\024\111
\156\163\165\162\147\145\156\164\145\163\040\123\165\162\040\061
\071\064\060\061\102\060\100\006\003\125\004\003\023\071\101\165
\164\157\162\151\144\141\144\040\103\145\162\164\151\146\151\143
\141\144\157\162\141\040\122\141\151\172\040\144\145\040\154\141

\040\123\145\143\162\145\164\141\162\151\141\040\144\145\040\105
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\023\053\104\151\162\145\143\143\151\157\156\040\107\145\156\145
\162\141\154\040\144\145\040\116\157\162\155\141\164\151\166\151
\144\141\144\040\115\145\162\143\141\156\164\151\154\061\037\060
\035\006\003\125\004\012\023\026\123\145\143\162\145\164\141\162
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\060\042\006\011\052\206\110\206\367\015\001\011\001\026\025\141
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\060\060\060\060\132\027\015\062\065\060\065\060\070\060\060\060
\060\060\060\132\060\202\001\061\061\027\060\025\006\003\125\004
\007\023\016\101\154\166\141\162\157\040\117\142\162\145\147\157
\156\061\031\060\027\006\003\125\004\010\023\020\104\151\163\164
\162\151\164\157\040\106\145\144\145\162\141\154\061\013\060\011
\006\003\125\004\006\023\002\115\130\061\016\060\014\006\003\125
\004\021\023\005\060\061\060\063\060\061\035\060\033\006\003\125
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\123\165\162\040\061\071\064\060\061\102\060\100\006\003\125\004
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\164\151\146\151\143\141\144\157\162\141\040\122\141\151\172\040
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\040\144\145\040\105\143\157\156\157\155\151\141\061\064\060\062
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\151\154\061\037\060\035\006\003\125\004\012\023\026\123\145\143
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\265\321\062\062\227\147\100\200\235\356\040\077\016\124\373\102
\007\373\167\032\231\330\206\364\034\052\210\045\363\351\104\243
\116\376\007\276\261\310\357\074\215\207\340\036\312\111\020\073
\050\357\044\121\241\374\210\027\112\347\034\310\124\147\143\350
\152\061\346\103\154\366\100\021\206\304\126\356\275\311\035\246
\106\074\036\106\302\202\215\056\251\350\356\166\012\103\340\162
\115\214\364\305\006\372\054\001\000\063\140\316\070\160\064\153
\027\032\353\172\144\141\247\223\244\145\152\327\043\307\166\172
\224\121\013\354\236\250\317\073\242\120\062\034\102\275\143\341
\207\313\271\205\110\016\300\325\130\266\366\316\113\362\007\317
\343\004\325\037\302\326\243\156\243\273\266\267\156\304\361\242
\037\026\274\266\055\260\357\364\132\233\051\215\274\341\374\007
\133\036\011\063\202\170\314\100\155\161\263\143\023\057\323\114

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\060\050\240\046\240\044\206\042\150\164\164\160\072\057\057\141
\143\056\145\143\157\156\157\155\151\141\056\147\157\142\056\155
\170\057\154\141\163\164\056\143\162\154\060\107\006\003\125\035
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\001\060\060\060\056\006\010\053\006\001\005\005\007\002\001\026
\042\150\164\164\160\072\057\057\141\143\056\145\143\157\156\157
\155\151\141\056\147\157\142\056\155\170\057\143\160\163\056\150
\164\155\154\060\017\006\003\125\035\023\001\001\377\004\005\060
\003\001\001\377\060\013\006\003\125\035\017\004\004\003\002\001
\006\060\021\006\011\140\206\110\001\206\370\102\001\001\004\004
\003\002\000\007\060\015\006\011\052\206\110\206\367\015\001\001
\005\005\000\003\202\001\001\000\114\052\170\123\004\226\163\140
\253\065\254\300\304\343\347\310\160\245\051\057\207\030\345\250
\202\336\007\325\010\364\317\236\075\236\374\112\054\026\174\237
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\314\302\124\330\225\074\146\327\153\006\272\257\251\340\155\010
\357\244\266\220\075\014\156\040\027\247\226\247\174\150\112\234
\230\304\007\157\301\002\142\221\070\233\235\343\212\171\123\235
\237\044\166\045\366\255\050\126\006\252\357\007\254\272\366\154
\344\045\061\175\210\200\072\170\106\370\171\341\070\340\023\347
\141\051\107\363\313\024\000\323\332\342\335\355\163\337\113\362
\143\344\046\330\165\320\115\103\024\220\026\224\107\001\377\241
\131\113\344\166\233\131\003\336\326\027\366\173\327\134\370\351
\343\157\310\116\340\107\046\261\342\234\174\112\061\345\144\021
\340\260\137\332\221\066\110\037\372\011\212\145\150\365\016\302
\237\357\270\152\317\167\376\022\355\066\332\021\066\255\031\152
\302\324\216\122\327\150\357\061
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Autoridad Certificadora Raiz de la Secretaria de Economia"
Issuer: 1.2.840.113549.1.9.1=acrse@economia.gob.mx,O=Secretaria de Economia,OU=Direccion General de Normatividad
Mercantil,CN=Autoridad Certificadora Raiz de la Secretaria de Economia,STREET=Insurgentes Sur 1940,2.5.4.17=01030,C=MX,ST=Distrito Federal,L=Alvaro Obregon
Serial Number: 1 (0x1)
Subject: 1.2.840.113549.1.9.1=acrse@economia.gob.mx,O=Secretaria de Economia,OU=Direccion General de Normatividad Mercantil,CN=Autoridad Certificadora Raiz de la Secretaria de Economia,STREET=Insurgentes Sur 1940,2.5.4.17=01030,C=MX,ST=Distrito Federal,L=Alvaro Obregon
Not Valid Before: Sun May 08 00:00:00 2005
Not Valid After: Thu May 08 00:00:00 2025

```
# Fingerprint (MD5): 07:61:92:04:7e:a6:b9:cd:5e:6b:00:7a:e3:bf:1d:04
# Fingerprint (SHA1): 34:d4:99:42:6f:9f:c2:bb:27:b0:75:ba:b6:82:aa:e5:ef:fc:ba:74
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridad Certificadora Raiz de la Secretaria de Economia"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\064\324\231\102\157\237\302\273\047\260\165\272\266\202\252\345
\357\374\272\164
END
CKA_CERT_MD5_HASH
 MULTILINE_OCTAL
\007\141\222\004\176\246\271\315\136\153\000\172\343\277\035\004
END
CKA_ISSUER MULTILINE_OCTAL
\060\202\001\061\061\027\060\025\006\003\125\004\007\023\016\101
\154\166\141\162\157\040\117\142\162\145\147\157\156\061\031\060
\027\006\003\125\004\010\023\020\104\151\163\164\162\151\164\157
\040\106\145\144\145\162\141\154\061\013\060\011\006\003\125\004
\006\023\002\115\130\061\016\060\014\006\003\125\004\021\023\005
\060\061\060\063\060\061\035\060\033\006\003\125\004\011\023\024
\111\156\163\165\162\147\145\156\164\145\163\040\123\165\162\040
\061\071\064\060\061\102\060\100\006\003\125\004\003\023\071\101
\165\164\157\162\151\144\141\144\040\103\145\162\164\151\146\151
\143\141\144\157\162\141\040\122\141\151\172\040\144\145\040\154
\141\040\123\145\143\162\145\164\141\162\151\141\040\144\145\040
\105\143\157\156\157\155\151\141\061\064\060\062\006\003\125\004
\013\023\053\104\151\162\145\143\143\151\157\156\040\107\145\156
\145\162\141\154\040\144\145\040\116\157\162\155\141\164\151\166
\151\144\141\144\040\115\145\162\143\141\156\164\151\154\061\037
\060\035\006\003\125\004\012\023\026\123\145\143\162\145\164\141
\162\151\141\040\144\145\040\105\143\157\156\157\155\151\141\061
\044\060\042\006\011\052\206\110\206\367\015\001\011\001\026\025
\141\143\162\163\145\100\145\143\157\156\157\155\151\141\056\147
\157\142\056\155\170
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Correo Uruguayo - Root CA"
```

```
# Issuer: CN=Correo Uruguayo - Root CA,OU=SERVICIOS ELECTRONICOS,O=ADMINISTRACION
NACIONAL DE CORREOS,C=UY
# Serial Number:ca:22:79:08:23:2a:f0:f5:82:b8:85:d3:63:dd:f1
# Subject: CN=Correo Uruguayo - Root CA,OU=SERVICIOS ELECTRONICOS,O=ADMINISTRACION
 NACIONAL DE CORREOS,C=UY
# Not Valid Before: Mon Jul 14 16:52:15 2008
# Not Valid After: Tue Dec 31 02:59:59 2030
# Fingerprint (MD5): 24:6d:ab:d2:f2:ea:4a:66:ae:5b:bc:ae:50:ad:6e:56
# Fingerprint (SHA1): f9:dd:19:26:6b:20:43:f1:fe:4b:3d:cb:01:90:af:f1:1f:31:a6:9d
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Correo Uruguayo - Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\177\061\013\060\011\006\003\125\004\006\023\002\125\131\061
\053\060\051\006\003\125\004\012\014\042\101\104\115\111\116\111
\123\124\122\101\103\111\117\116\040\116\101\103\111\117\116\101
\114\040\104\105\040\103\117\122\122\105\117\123\061\037\060\035
\006\003\125\004\013\014\026\123\105\122\126\111\103\111\117\123
\040\105\114\105\103\124\122\117\116\111\103\117\123\061\042\060
\040\006\003\125\004\003\014\031\103\157\162\162\145\157\040\125
\162\165\147\165\141\171\157\040\055\040\122\157\157\164\040\103
\101
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\177\061\013\060\011\006\003\125\004\006\023\002\125\131\061
\053\060\051\006\003\125\004\012\014\042\101\104\115\111\116\111
\123\124\122\101\103\111\117\116\040\116\101\103\111\117\116\101
\114\040\104\105\040\103\117\122\122\105\117\123\061\037\060\035
\006\003\125\004\013\014\026\123\105\122\126\111\103\111\117\123
\040\105\114\105\103\124\122\117\116\111\103\117\123\061\042\060
\040\006\003\125\004\003\014\031\103\157\162\162\145\157\040\125
\162\165\147\165\141\171\157\040\055\040\122\157\157\164\040\103
\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\000\312\042\171\010\043\052\360\365\202\270\205\323\143
\335\361
END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\032\060\202\004\002\240\003\002\001\002\002\020\000
\312\042\171\010\043\052\360\365\202\270\205\323\143\335\361\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\177
\061\013\060\011\006\003\125\004\006\023\002\125\131\061\053\060
```

\051\006\003\125\004\012\014\042\101\104\115\111\116\111\123\124
\122\101\103\111\117\116\040\116\101\103\111\117\116\101\114\040
\104\105\040\103\117\122\122\105\117\123\061\037\060\035\006\003
\125\004\013\014\026\123\105\122\126\111\103\111\117\123\040\105
\114\105\103\124\122\117\116\111\103\117\123\061\042\060\040\006
\003\125\004\003\014\031\103\157\162\162\145\157\040\125\162\165
\147\165\141\171\157\040\055\040\122\157\157\164\040\103\101\060
\036\027\015\060\070\060\067\061\064\061\066\065\062\061\065\132
\027\015\063\060\061\062\063\061\060\062\065\071\065\071\132\060
\177\061\013\060\011\006\003\125\004\006\023\002\125\131\061\053
\060\051\006\003\125\004\012\014\042\101\104\115\111\116\111\123
\124\122\101\103\111\117\116\040\116\101\103\111\117\116\101\114
\040\104\105\040\103\117\122\122\105\117\123\061\037\060\035\006
\003\125\004\013\014\026\123\105\122\126\111\103\111\117\123\040
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\006\003\125\004\003\014\031\103\157\162\162\145\157\040\125\162
\165\147\165\141\171\157\040\055\040\122\157\157\164\040\103\101
\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001
\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001
\000\261\075\322\247\045\160\227\203\170\016\327\062\311\146\016
\170\043\344\052\033\354\303\357\123\205\203\273\312\317\176\352
\123\231\155\047\125\310\321\070\041\100\156\111\115\303\075\366
\011\053\006\031\103\251\230\311\001\116\364\252\200\060\007\125
\363\365\267\175\231\267\163\205\325\034\145\126\154\015\062\233
\010\016\064\141\052\100\011\204\067\303\146\355\015\114\234\014
\170\100\072\354\355\253\314\244\204\362\165\061\225\100\250\252
\273\223\265\167\230\154\362\310\340\041\132\043\344\102\247\223
\310\250\035\070\316\244\032\100\100\277\074\223\220\233\137\326
\224\301\042\133\106\327\305\000\025\325\217\306\367\336\013\257
\156\213\005\217\133\200\225\016\243\275\223\314\220\362\175\343
\110\176\262\315\007\075\033\355\024\220\164\363\335\064\037\174
\344\003\131\361\055\315\340\243\240\073\041\056\134\256\254\010
\006\120\025\061\065\356\137\371\037\015\064\245\200\156\142\162
\117\343\041\272\070\100\135\137\333\150\052\134\064\306\010\073
\366\174\056\250\215\304\267\246\255\331\233\277\031\101\016\110
\071\011\146\156\015\064\001\305\273\007\021\043\244\332\376\140
\226\050\107\334\217\147\233\023\257\175\171\016\170\315\300\214
\057\273\041\054\374\164\026\036\336\300\062\235\372\170\072\206
\272\076\311\170\012\000\321\344\340\311\022\342\133\334\353\273
\200\232\062\065\253\360\060\303\016\110\204\057\215\010\012\366
\054\214\115\062\200\105\125\010\333\315\015\250\277\010\172\270
\347\150\135\232\224\211\225\274\374\232\216\270\177\072\330\154
\325\364\030\254\151\342\244\301\013\263\037\243\202\237\363\212
\074\205\100\070\011\372\302\005\076\341\234\211\372\303\005\154
\010\217\135\121\364\177\273\304\363\154\001\275\075\117\304\031
\213\071\331\312\314\351\171\210\004\125\253\155\270\332\026\105
\145\071\025\005\030\373\013\054\163\001\355\224\122\345\175\014
\001\073\011\240\115\361\075\010\201\146\064\066\027\104\360\147

\363\133\362\005\266\041\230\130\331\364\241\067\331\157\346\357
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\116\352\207\103\232\150\135\210\243\221\106\050\053\277\071\025
\025\002\003\001\000\001\243\201\221\060\201\216\060\017\006\003
\125\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006
\003\125\035\017\001\001\377\004\004\003\002\001\006\060\035\006
\003\125\035\016\004\026\004\024\175\273\151\353\210\141\341\100
\317\107\043\144\000\206\242\146\153\334\204\225\060\114\006\003
\125\035\040\004\105\060\103\060\101\006\004\125\035\040\000\060
\071\060\067\006\010\053\006\001\005\005\007\002\001\026\053\150
\164\164\160\072\057\057\167\167\167\056\143\157\162\162\145\157
\056\143\157\155\056\165\171\057\143\157\162\162\145\157\143\145
\162\164\057\143\160\163\056\160\144\146\060\015\006\011\052\206
\110\206\367\015\001\001\005\005\000\003\202\002\001\000\126\337
\023\211\276\142\267\016\201\041\163\244\324\067\312\355\267\057
\225\164\327\211\370\113\107\201\356\147\355\270\051\337\041\240
\374\124\147\147\310\127\054\133\241\012\165\170\041\041\312\240
\250\337\153\234\331\066\002\215\270\001\301\157\216\173\154\311
\244\262\305\106\251\312\114\002\201\372\243\173\235\075\110\346
\312\100\146\322\104\235\166\340\125\271\246\234\247\321\103\330
\365\240\264\235\370\367\345\246\246\102\363\002\062\131\106\162
\053\024\354\136\145\325\121\201\170\316\252\057\215\226\211\171
\152\373\017\310\133\317\264\256\220\266\137\343\174\142\154\267
\246\377\220\201\265\230\221\163\022\060\257\307\350\201\002\150
\163\051\273\130\165\075\267\326\103\325\256\115\362\102\271\360
\337\332\061\000\023\332\341\263\266\006\213\133\375\311\230\270
\242\023\321\272\217\301\212\032\236\017\377\202\276\004\202\345
\053\223\076\036\265\242\014\033\306\032\260\163\211\166\203\274
\216\073\273\027\155\024\303\213\276\175\025\046\265\251\234\027
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\326\216\064\133\254\036\207\140\153\230\307\207\217\323\234\262
\150\005\111\007\371\251\061\146\234\376\277\247\131\350\054\360
\066\324\362\250\031\202\300\236\247\071\371\261\230\064\243\037
\372\315\311\031\055\170\336\267\375\142\360\223\243\376\000\133
\326\012\344\363\176\174\227\050\341\005\354\005\064\105\023\377
\051\023\141\212\047\117\333\270\322\222\041\047\265\210\167\147
\250\176\317\044\074\207\010\004\063\163\217\013\266\206\370\317
\357\262\246\044\036\013\221\221\000\120\026\062\022\330\011\045
\332\143\116\335\333\055\327\347\004\153\343\143\037\251\376\251
\001\143\304\312\114\024\150\203\274\005\254\131\026\373\156\241
\007\157\273\113\276\155\230\110\166\045\173\112\021\226\124\010
\254\251\363\067\253\203\303\321\315\201\230\300\345\100\065\270
\237\221\347\157\346\113\040\026\212\123\173\254\072\321\230\065
\124\320\324\277\256\176\232\113\036\351\165\243\045\260\073\347
\145\277\117\225\364\035\275\304\272\311\115\201\121\302\077\132
\331\022\364\041\033\326\225\352\075\220\376\251\223\342
END
CKA_NSS_MOZILLA_CA_POLICY

```
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Trust for "Correo Uruguayo - Root CA"
# Issuer: CN=Correo Uruguayo - Root CA,OU=SERVICIOS ELECTRONICOS,O=ADMINISTRACION
NACIONAL DE CORREOS,C=UY
# Serial Number:ca:22:79:08:23:2a:f0:f5:82:b8:85:d3:63:dd:f1
# Subject: CN=Correo Uruguayo - Root CA,OU=SERVICIOS ELECTRONICOS,O=ADMINISTRACION
NACIONAL DE CORREOS,C=UY
# Not Valid Before: Mon Jul 14 16:52:15 2008
# Not Valid After: Tue Dec 31 02:59:59 2030
# Fingerprint (MD5): 24:6d:ab:d2:f2:ea:4a:66:ae:5b:bc:ae:50:ad:6e:56
# Fingerprint (SHA1): f9:dd:19:26:6b:20:43:f1:fe:4b:3d:cb:01:90:af:f1:1f:31:a6:9d
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE
 CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Correo Uruguayo - Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\371\335\031\046\153\040\103\361\376\113\075\313\001\220\257\361
\037\061\246\235
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\044\155\253\322\362\352\112\146\256\133\274\256\120\255\156\126
END
CKA_ISSUER MULTILINE_OCTAL
\060\177\061\013\060\011\006\003\125\004\006\023\002\125\131\061
\053\060\051\006\003\125\004\012\014\042\101\104\115\111\116\111
\123\124\122\101\103\111\117\116\040\116\101\103\111\117\116\101
\114\040\104\105\040\103\117\122\122\105\117\123\061\037\060\035
\006\003\125\004\013\014\026\123\105\122\126\111\103\111\117\123
\040\105\114\105\103\124\122\117\116\111\103\117\123\061\042\060
\040\006\003\125\004\003\014\031\103\157\162\162\145\157\040\125
\162\165\147\165\141\171\157\040\055\040\122\157\157\164\040\103
\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\000\312\042\171\010\043\052\360\365\202\270\205\323\143
\335\361
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION
 CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
```

```
# Microsoft Code Signing Only Certificate
# Certificate "Chambers of Commerce Root - 2008"
# Issuer: CN=Chambers of Commerce Root - 2008,O=AC Camerfirma S.A.,2.5.4.5=A82743287,L=Madrid (see
current address at www.camerfirma.com/address),C=EU
# Serial Number:a3:da:42:7e:a4:b1:ae:da
# Subject: CN=Chambers of Commerce Root - 2008,O=AC Camerfirma S.A.,2.5.4.5=A82743287,L=Madrid (see
current address at www.camerfirma.com/address),C=EU
# Not Valid Before: Fri Aug 01 12:29:50 2008
# Not Valid After: Sat Jul 31 12:29:50 2038
# Fingerprint (MD5): 5e:80:9e:84:5a:0e:65:0b:17:02:f3:55:18:2a:3e:d7
# Fingerprint (SHA1): 78:6a:74:ac:76:ab:14:7f:9c:6a:30:50:ba:9e:a8:7e:fe:9a:ce:3c
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Chambers
 of Commerce Root - 2008"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\256\061\013\060\011\006\003\125\004\006\023\002\105\125
\061\103\060\101\006\003\125\004\007\023\072\115\141\144\162\151
\144\040\050\163\145\145\040\143\165\162\162\145\156\164\040\141
\144\144\162\145\163\163\040\141\164\040\167\167\167\056\143\141
\155\145\162\146\151\162\155\141\056\143\157\155\057\141\144\144
\162\145\163\163\051\061\022\060\020\006\003\125\004\005\023\011
\101\070\062\067\064\063\062\070\067\061\033\060\031\006\003\125
\004\012\023\022\101\103\040\103\141\155\145\162\146\151\162\155
\141\040\123\056\101\056\061\051\060\047\006\003\125\004\003\023
\040\103\150\141\155\142\145\162\163\040\157\146\040\103\157\155
\155\145\162\143\145\040\122\157\157\164\040\055\040\062\060\060
\070
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\256\061\013\060\011\006\003\125\004\006\023\002\105\125
\061\103\060\101\006\003\125\004\007\023\072\115\141\144\162\151
\144\040\050\163\145\145\040\143\165\162\162\145\156\164\040\141
\144\144\162\145\163\163\040\141\164\040\167\167\167\056\143\141
\155\145\162\146\151\162\155\141\056\143\157\155\057\141\144\144
\162\145\163\163\051\061\022\060\020\006\003\125\004\005\023\011
\101\070\062\067\064\063\062\070\067\061\033\060\031\006\003\125
\004\012\023\022\101\103\040\103\141\155\145\162\146\151\162\155
\141\040\123\056\101\056\061\051\060\047\006\003\125\004\003\023
\040\103\150\141\155\142\145\162\163\040\157\146\040\103\157\155
\155\145\162\143\145\040\122\157\157\164\040\055\040\062\060\060
\070
END
```

CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\011\000\243\332\102\176\244\261\256\332
END
CKA_VALUE MULTILINE_OCTAL
\060\202\007\117\060\202\005\067\240\003\002\001\002\002\011\000
\243\332\102\176\244\261\256\332\060\015\006\011\052\206\110\206
\367\015\001\001\005\005\000\060\201\256\061\013\060\011\006\003
\125\004\006\023\002\105\125\061\103\060\101\006\003\125\004\007
\023\072\115\141\144\162\151\144\040\050\163\145\145\040\143\165
\162\162\145\156\164\040\141\144\144\162\145\163\163\040\141\164
\040\167\167\167\056\143\141\155\145\162\146\151\162\155\141\056
\143\157\155\057\141\144\144\162\145\163\163\051\061\022\060\020
\006\003\125\004\005\023\011\101\070\062\067\064\063\062\070\067
\061\033\060\031\006\003\125\004\012\023\022\101\103\040\103\141
\155\145\162\146\151\162\155\141\040\123\056\101\056\061\051\060
\047\006\003\125\004\003\023\040\103\150\141\155\142\145\162\163
\040\157\146\040\103\157\155\155\145\162\143\145\040\122\157\157
\164\040\055\040\062\060\060\070\060\036\027\015\060\070\060\070
\060\061\061\062\062\071\065\060\132\027\015\063\070\060\067\063
\061\061\062\062\071\065\060\132\060\201\256\061\013\060\011\006
\003\125\004\006\023\002\105\125\061\103\060\101\006\003\125\004
\007\023\072\115\141\144\162\151\144\040\050\163\145\145\040\143
\165\162\162\145\156\164\040\141\144\144\162\145\163\163\040\141
\164\040\167\167\167\056\143\141\155\145\162\146\151\162\155\141
\056\143\157\155\057\141\144\144\162\145\163\163\051\061\022\060
\020\006\003\125\004\005\023\011\101\070\062\067\064\063\062\070
\067\061\033\060\031\006\003\125\004\012\023\022\101\103\040\103
\141\155\145\162\146\151\162\155\141\040\123\056\101\056\061\051
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END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Chambers of Commerce Root - 2008"
Issuer: CN=Chambers of Commerce Root - 2008,O=AC Camerfirma S.A.,2.5.4.5=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU
Serial Number:a3:da:42:7e:a4:b1:ae:da
Subject: CN=Chambers of Commerce Root - 2008,O=AC Camerfirma S.A.,2.5.4.5=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU
Not Valid Before: Fri Aug 01 12:29:50 2008
Not Valid After: Sat Jul 31 12:29:50 2038
Fingerprint
(MD5): 5e:80:9e:84:5a:0e:65:0b:17:02:f3:55:18:2a:3e:d7
Fingerprint (SHA1): 78:6a:74:ac:76:ab:14:7f:9c:6a:30:50:ba:9e:a8:7e:fe:9a:ce:3c
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE

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CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Chambers of Commerce Root - 2008"
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\376\232\316\074
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CKA_CERT_MD5_HASH MULTILINE_OCTAL
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\144\144\162\145\163\163\040\141\164\040\167\167\167\056\143\141
\155\145\162\146\151\162\155\141\056\143\157\155\057\141\144\144
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 MULTILINE_OCTAL
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CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Global Chambersign Root - 2008"
# Issuer: CN=Global Chambersign Root - 2008,O=AC Camerfirma S.A.,2.5.4.5=A82743287,L=Madrid (see current
address at www.camerfirma.com/address),C=EU
# Serial Number:c9:cd:d3:e9:d5:7d:23:ce
# Subject: CN=Global Chambersign Root - 2008,O=AC Camerfirma S.A.,2.5.4.5=A82743287,L=Madrid (see
current address
 at www.camerfirma.com/address),C=EU
# Not Valid Before: Fri Aug 01 12:31:40 2008
# Not Valid After: Sat Jul 31 12:31:40 2038
# Fingerprint (MD5): 9e:80:ff:78:01:0c:2e:c1:36:bd:fe:96:90:6e:08:f3
# Fingerprint (SHA1): 4a:bd:ee:ec:95:0d:35:9c:89:ae:c7:52:a1:2c:5b:29:f6:d6:aa:0c
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
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CKA_LABEL UTF8 "Global Chambersign Root - 2008"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
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\004\012\023\022\101\103\040\103\141\155\145\162\146\151\162\155
\141\040\123\056\101\056\061\047\060\045\006\003\125\004\003\023
\036\107\154\157\142\141\154\040\103\150\141\155\142\145\162\163
\151\147\156\040\122\157\157\164\040\055\040\062\060\060\070\202
\011\000\311\315\323\351\325\175\043\316\060\016\006\003\125\035
\017\001\001\377\004\004\003\002\001\006\060\075\006\003\125\035
\040\004\066\060\064\060\062\006\004\125\035\040\000\060\052\060
\050\006\010\053\006\001\005\005\007\002\001\026\034\150\164\164
\160\072\057\057\160\157\154\151\143\171\056\143\141\155\145\162
\146\151\162\155\141\056\143\157\155\060\015\006\011\052\206\110
\206\367\015\001\001\005\005\000\003\202\002\001\000\200\210\177
\160\336\222\050\331\005\224\106\377\220\127\251\361\057\337\032
\015\153\372\174\016\034\111\044\171\047\330\106\252\157\051\131
\122\210\160\022\352\335\075\365\233\123\124\157\341\140\242\250
\011\271\354\353\131\174\306\065\361\334\030\351\361\147\345\257
\272\105\340\011\336\312\104\017\302\027\016\167\221\105\172\063
\137\137\226\054\150\213\301\107\217\230\233\075\300\354\313\365
\325\202\222\204\065\321\276\066\070\126\162\061\133\107\055\252
\027\244\143\121\353\012\001\255\177\354\165\236\313\241\037\361
\177\022\261\271\344\144\177\147\326\043\052\364\270\071\135\230
\350\041\247\341\275\075\102\032\164\232\160\257\150\154\120\135
\111\317\377\373\016\135\346\054\107\327\201\072\131\000\265\163
\153\143\040\366\061\105\010\071\016\364\160\176\100\160\132\077
\320\153\102\251\164\075\050\057\002\155\165\162\225\011\215\110
\143\306\306\043\127\222\223\136\065\301\215\371\012\367\054\235
\142\034\366\255\174\335\246\061\036\266\261\307\176\205\046\372
\244\152\265\332\143\060\321\357\223\067\262\146\057\175\005\367
\347\267\113\230\224\065\300\331\072\051\301\235\262\120\063\035
\112\251\132\246\311\003\357\355\364\347\250\156\212\264\127\204
\353\244\077\320\356\252\252\207\133\143\350\223\342\153\250\324
\270\162\170\153\033\355\071\344\135\313\233\252\207\325\117\116
\000\376\331\152\237\074\061\017\050\002\001\175\230\350\247\260
\242\144\236\171\370\110\362\025\251\314\346\310\104\353\077\170
\231\362\173\161\076\074\361\230\247\305\030\022\077\346\273\050
\063\102\351\105\012\174\155\362\206\171\057\305\202\031\175\011

\211\174\262\124\166\210\256\336\301\363\314\341\156\333\061\326
\223\256\231\240\357\045\152\163\230\211\133\072\056\023\210\036
\277\300\222\224\064\033\343\047\267\213\036\157\102\377\347\351
\067\233\120\035\055\242\371\002\356\313\130\130\072\161\274\150
\343\252\301\257\034\050\037\242\334\043\145\077\201\352\256\231
\323\330\060\317\023\015\117\025\311\204\274\247\110\055\370\060
\043\167\330\106\113\171\155\366\214\355\072\177\140\021\170\364
\351\233\256\325\124\300\164\200\321\013\102\237\301
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Global Chambersign Root - 2008"
Issuer: CN=Global Chambersign Root - 2008,O=AC Camerfirma S.A.,2.5.4.5=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU
Serial Number:c9:cd:d3:e9:d5:7d:23:ce
Subject: CN=Global Chambersign Root - 2008,O=AC Camerfirma S.A.,2.5.4.5=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU
Not Valid Before: Fri Aug 01 12:31:40 2008
Not Valid After: Sat Jul 31 12:31:40 2038
Fingerprint (MD5): 9e:80:ff:78:01:0c:2e:c1:36:bd:fe:96:90:6e:08:f3
Fingerprint (SHA1): 4a:bd:ee:ec:95:0d:35:9c:89:ae:c7:52:a1:2c:5b:29:f6:d6:aa:0c
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Global Chambersign Root - 2008"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\112\275\356\354\225\015\065\234\211\256\307\122\241\054\133\051
\366\326\252\014
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\236\200\377\170\001\014\056\301\066\275\376\226\220\156\010\363
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\254\061\013\060\011\006\003\125\004\006\023\002\105\125
\061\103\060\101\006\003\125\004\007\023\072\115\141\144\162\151
\144\040\050\163\145\145\040\143\165\162\162\145\156\164\040\141
\144\144\162\145\163\163\040\141\164\040\167\167\167\056\143\141
\155\145\162\146\151\162\155\141\056\143\157\155\057\141\144\144
\162\145\163\163\051\061\022\060\020\006\003\125\004\005\023\011
\101\070\062\067\064\063\062\070\067\061\033\060\031\006\003\125
\004\012\023\022\101\103\040\103\141\155\145\162\146\151\162\155
\141\040\123\056\101\056\061\047\060\045\006\003\125\004\003\023
\036\107\154\157\142\141\154\040\103\150\141\155\142\145\162\163

\151\147\156\040\122\157\157\164\040\055\040\062\060\060\070
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\011\000\311\315\323\351\325\175\043\316
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only
Certificate
Certificate "CNNIC ROOT"
Issuer: CN=CNNIC ROOT,O=CNNIC,C=CN
Serial Number:49:33:00:01
Subject: CN=CNNIC ROOT,O=CNNIC,C=CN
Not Valid Before: Mon Apr 16 07:09:14 2007
Not Valid After: Fri Apr 16 07:09:14 2027
Fingerprint (MD5): 21:bc:82:ab:49:c4:13:3b:4b:b2:2b:5c:6b:90:9c:19
Fingerprint (SHA1): 8b:af:4c:9b:1d:f0:2a:92:f7:da:12:8e:b9:1b:ac:f4:98:60:4b:6f
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CNNIC ROOT"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\062\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\016\060\014\006\003\125\004\012\023\005\103\116\116\111\103\061
\023\060\021\006\003\125\004\003\023\012\103\116\116\111\103\040
\122\117\117\124
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\062\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\016\060\014\006\003\125\004\012\023\005\103\116\116\111\103\061
\023\060\021\006\003\125\004\003\023\012\103\116\116\111\103\040
\122\117\117\124
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\004\111\063\000\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\125\060\202\002\075\240\003\002\001\002\002\004\111
\063\000\001\060\015\006\011\052\206\110\206\367\015\001\001\005
\005\000\060\062\061\013\060\011\006\003\125\004\006\023\002\103

\116\061\016\060\014\006\003\125\004\012\023\005\103\116\116\111
\103\061\023\060\021\006\003\125\004\003\023\012\103\116\116\111
\103\040\122\117\117\124\060\036\027\015\060\067\060\064\061\066
\060\067\060\071\061\064\132\027\015\062\067\060\064\061\066\060
\067\060\071\061\064\132\060\062\061\013\060\011\006\003\125\004
\006\023\002\103\116\061\016\060\014\006\003\125\004\012\023\005
\103\116\116\111\103\061\023\060\021\006\003\125\004\003\023\012
\103\116\116\111\103\040\122\117\117\124\060\202\001\042\060\015
\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001
\017\000\060\202\001\012\002\202\001\001\000\323\065\367\077\163
\167\255\350\133\163\027\302\321\157\355\125\274\156\352\350\244
\171\262\154\303\243\357\341\237\261\073\110\205\365\232\134\041
\042\020\054\305\202\316\332\343\232\156\067\341\207\054\334\271
\014\132\272\210\125\337\375\252\333\037\061\352\001\361\337\071
\001\301\023\375\110\122\041\304\125\337\332\330\263\124\166\272
\164\261\267\175\327\300\350\366\131\305\115\310\275\255\037\024
\332\337\130\104\045\062\031\052\307\176\176\216\256\070\260\060
\173\107\162\011\061\360\060\333\303\033\166\051\273\151\166\116
\127\371\033\144\242\223\126\267\157\231\156\333\012\004\234\021
\343\200\037\313\143\224\020\012\251\341\144\202\061\371\214\047
\355\246\231\000\366\160\223\030\370\241\064\206\243\335\172\302
\030\171\366\172\145\065\317\220\353\275\063\223\237\123\253\163
\073\346\233\064\040\057\035\357\251\035\143\032\240\200\333\003
\057\371\046\032\206\322\215\273\251\276\122\072\207\147\110\015
\277\264\240\330\046\276\043\137\163\067\177\046\346\222\004\243
\177\317\040\247\267\363\072\312\313\231\313\002\003\001\000\001
\243\163\060\161\060\021\006\011\140\206\110\001\206\370\102\001
\001\004\004\003\002\000\007\060\037\006\003\125\035\043\004\030
\060\026\200\024\145\362\061\255\052\367\367\335\122\226\012\307
\002\301\016\357\246\325\073\021\060\017\006\003\125\035\023\001
\001\377\004\005\060\003\001\001\377\060\013\006\003\125\035\017
\004\004\003\002\001\376\060\035\006\003\125\035\016\004\026\004
\024\145\362\061\255\052\367\367\335\122\226\012\307\002\301\016
\357\246\325\073\021\060\015\006\011\052\206\110\206\367\015\001
\001\005\005\000\003\202\001\001\000\113\065\356\314\344\256\277
\303\156\255\237\225\073\113\077\133\036\337\127\051\242\131\312
\070\342\271\032\377\236\346\156\062\335\036\256\352\065\267\365
\223\221\116\332\102\341\303\027\140\120\362\321\134\046\271\202
\267\352\155\344\234\204\347\003\171\027\257\230\075\224\333\307
\272\000\347\270\277\001\127\301\167\105\062\014\073\361\264\034
\010\260\375\121\240\241\335\232\035\023\066\232\155\267\307\074
\271\341\305\331\027\372\203\325\075\025\240\074\273\036\013\342
\310\220\077\250\206\014\374\371\213\136\205\313\117\133\113\142
\021\107\305\105\174\005\057\101\261\236\020\151\033\231\226\340
\125\171\373\116\206\231\270\224\332\206\070\152\223\243\347\313
\156\345\337\352\041\125\211\234\175\175\177\230\365\000\211\356
\343\204\300\134\226\265\305\106\352\106\340\205\125\266\033\311
\022\326\301\315\315\200\363\002\001\074\310\151\313\105\110\143

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\330\224\320\354\205\016\073\116\021\145\364\202\214\246\075\256
\056\042\224\011\310\134\352\074\201\135\026\052\003\227\026\125
\011\333\212\101\202\236\146\233\021
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Trust for "CNNIC ROOT"
# Issuer: CN=CNNIC ROOT,O=CNNIC,C=CN
# Serial Number:49:33:00:01
# Subject: CN=CNNIC ROOT,O=CNNIC,C=CN
# Not Valid Before:
 Mon Apr 16 07:09:14 2007
# Not Valid After: Fri Apr 16 07:09:14 2027
# Fingerprint (MD5): 21:bc:82:ab:49:c4:13:3b:4b:b2:2b:5c:6b:90:9c:19
# Fingerprint (SHA1): 8b:af:4c:9b:1d:f0:2a:92:f7:da:12:8e:b9:1b:ac:f4:98:60:4b:6f
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CNNIC ROOT"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\213\257\114\233\035\360\052\222\367\332\022\216\271\033\254\364
\230\140\113\157
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\041\274\202\253\111\304\023\073\113\262\053\134\153\220\234\031
END
CKA_ISSUER MULTILINE_OCTAL
\060\062\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\016\060\014\006\003\125\004\012\023\005\103\116\116\111\103\061
\023\060\021\006\003\125\004\003\023\012\103\116\116\111\103\040
\122\117\117\124
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\111\063\000\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST
 CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Common Policy"
```

```
# Issuer: CN=Common Policy,OU=FBCA,O=U.S. Government,C=us
# Serial Number:29:36:47:aa:e3:8a:ac:86:4a:23:56:f2:ca:b7:61:af
# Subject: CN=Common Policy,OU=FBCA,O=U.S. Government,C=us
# Not Valid Before: Mon Oct 15 15:58:00 2007
# Not Valid After: Fri Oct 15 16:08:00 2027
# Fingerprint (MD5): f0:58:c5:03:82:67:17:ab:8f:da:03:10:27:8e:19:c2
# Fingerprint (SHA1): cb:44:a0:97:85:7c:45:fa:18:7e:d9:52:08:6c:b9:84:1f:2d:51:b5
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Common Policy"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\165\163\061
\030\060\026\006\003\125\004\012\023\017\125\056\123\056\040\107
\157\166\145\162\156\155\145\156\164\061\015\060\013\006\003\125
\004\013\023\004\106\102\103\101\061\026\060\024\006\003\125\004
\003\023\015\103\157\155\155\157\156\040\120\157\154\151\143\171
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\165\163\061
\030\060\026\006\003\125\004\012\023\017\125\056\123\056\040\107
\157\166\145\162\156\155\145\156\164\061\015\060\013\006\003\125
\004\013\023\004\106\102\103\101\061\026\060\024\006\003\125\004
\003\023\015\103\157\155\155\157\156\040\120\157\154\151\143\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\051\066\107\252\343\212\254\206\112\043\126\362\312\267
\141\257
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\241\060\202\002\211\240\003\002\001\002\002\020\051
\066\107\252\343\212\254\206\112\043\126\362\312\267\141\257\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\116
\061\013\060\011\006\003\125\004\006\023\002\165\163\061\030\060
\026\006\003\125\004\012\023\017\125\056\123\056\040\107\157\166
\145\162\156\155\145\156\164\061\015\060\013\006\003\125\004\013
\023\004\106\102\103\101\061\026\060\024\006\003\125\004\003\023
\015\103\157\155\155\157\156\040\120\157\154\151\143\171\060\036
\027\015\060\067\061\060\061\065\061\065\065\070\060\060\132\027
\015\062\067\061\060\061\065\061\066\060\070\060\060\132\060\116
\061\013\060\011\006\003\125\004\006\023\002\165\163\061\030\060
\026\006\003\125\004\012\023\017\125\056\123\056\040\107\157\166
\145\162\156\155\145\156\164\061\015\060\013\006\003\125\004\013
\023\004\106\102\103\101\061\026\060\024\006\003\125\004\003\023
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\015\103\157\155\155\157\156\040\120\157\154\151\143\171\060\202
\001\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005
\000\003\202\001\017\000\060\202\001\012\002\202\001\001\000\227
\215\275\063\047\344\255\133\373\170\275\057\107\107\156\307\170
\351\223\234\244\336\311\034\375\057\033\071\070\254\107\027\300
\176\167\051\000\073\003\037\150\017\315\115\245\356\167\270\054
\142\153\061\366\372\162\011\175\060\051\006\174\347\174\243\075
\204\030\212\035\256\054\222\250\037\350\136\117\215\216\353\077
\032\370\234\012\147\235\260\147\115\360\056\320\060\336\303\224
\260\240\317\056\012\064\177\124\011\323\066\275\244\111\127\122
\163\351\235\376\344\110\171\106\033\133\215\062\344\245\110\144
\363\042\015\222\235\010\025\277\140\074\203\367\107\042\045\042
\255\051\161\267\167\357\027\311\242\266\224\136\310\060\220\244
\024\110\134\126\127\013\101\114\005\324\052\114\077\256\022\233
\131\021\165\160\007\042\151\055\054\323\061\314\222\176\314\315
\244\176\224\107\252\234\011\010\366\113\257\122\350\152\100\221
\305\125\275\100\261\310\155\127\206\225\027\346\037\163\276\107
\056\076\213\114\027\271\271\045\034\245\122\027\066\010\131\300
\102\276\012\053\264\126\121\074\033\125\311\214\220\167\353\002
\003\001\000\001\243\173\060\171\060\016\006\003\125\035\017\001
\001\377\004\004\003\002\001\006\060\017\006\003\125\035\023\001
\001\377\004\005\060\003\001\001\377\060\035\006\003\125\035\016
\004\026\004\024\057\130\227\330\251\005\230\245\126\037\373\331
\253\165\357\002\074\066\064\307\060\022\006\011\053\006\001\004
\001\202\067\025\001\004\005\002\003\001\000\001\060\043\006\011
\053\006\001\004\001\202\067\025\002\004\026\004\024\166\267\140
\226\335\024\126\051\254\165\205\323\160\143\301\274\107\206\034
\213\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000
\003\202\001\001\000\140\256\363\110\026\100\162\246\010\210\311
\274\107\054\044\113\135\240\221\163\355\145\170\220\360\147\220
\172\245\277\012\255\266\052\371\231\147\337\203\305\167\037\064
\011\070\371\176\236\101\340\110\140\376\342\252\135\207\210\352
\210\375\134\105\262\311\152\332\175\244\255\261\117\277\034\015
\237\036\232\300\325\024\163\070\053\212\170\100\156\060\367\142
\341\315\231\374\121\151\147\154\021\335\270\020\243\150\336\046
\245\126\375\066\154\067\230\154\373\356\174\074\154\153\160\077
\367\110\067\011\217\013\102\201\255\106\106\270\013\203\006\364
\033\070\240\177\117\315\013\357\203\211\207\227\034\212\060\147
\334\375\124\241\003\176\001\313\205\114\261\013\051\303\276\354
\174\341\077\017\011\122\074\057\247\232\110\376\067\351\021\006
\130\341\066\101\212\304\266\277\216\335\316\112\263\274\032\300
\315\372\032\231\322\161\233\372\317\274\362\304\124\243\210\065
\166\314\033\054\106\157\014\264\321\303\141\166\222\164\021\352
\113\200\215\034\211\021\213\354\133\377\027\311\110\374\347\340
\006\021\342\204\136
END
CKA_NSS_MOZILLA_CA_POLICY

```
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Trust for "Common Policy"
# Issuer: CN=Common Policy,OU=FBCA,O=U.S. Government,C=us
# Serial Number:29:36:47:aa:e3:8a:ac:86:4a:23:56:f2:ca:b7:61:af
# Subject: CN=Common Policy,OU=FBCA,O=U.S. Government,C=us
# Not Valid Before: Mon Oct 15 15:58:00 2007
# Not Valid After: Fri Oct 15 16:08:00 2027
# Fingerprint (MD5):
 f0:58:c5:03:82:67:17:ab:8f:da:03:10:27:8e:19:c2
# Fingerprint (SHA1): cb:44:a0:97:85:7c:45:fa:18:7e:d9:52:08:6c:b9:84:1f:2d:51:b5
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Common Policy"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\313\104\240\227\205\174\105\372\030\176\331\122\010\154\271\204
\037\055\121\265
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\360\130\305\003\202\147\027\253\217\332\003\020\047\216\031\302
END
CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\165\163\061
\030\060\026\006\003\125\004\012\023\017\125\056\123\056\040\107
\157\166\145\162\156\155\145\156\164\061\015\060\013\006\003\125
\004\013\023\004\106\102\103\101\061\026\060\024\006\003\125\004
\003\023\015\103\157\155\155\157\156\040\120\157\154\151\143\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\051\066\107\252\343\212\254\206\112\043\126\362\312\267
\141\257
END
CKA_TRUST_SERVER_AUTH
 CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Staat der Nederlanden Root CA - G2"
# Issuer: CN=Staat der Nederlanden Root CA - G2,O=Staat der Nederlanden,C=NL
# Serial Number:98:96:8c
# Subject: CN=Staat der Nederlanden Root CA - G2,O=Staat der Nederlanden,C=NL
```

```
# Not Valid Before: Wed Mar 26 11:18:17 2008
# Not Valid After: Wed Mar 25 11:03:10 2020
# Fingerprint (MD5): 7c:a5:0f:f8:5b:9a:7d:6d:30:ae:54:5a:e3:42:a2:8a
# Fingerprint (SHA1): 59:af:82:79:91:86:c7:b4:75:07:cb:cf:03:57:46:eb:04:dd:b7:16
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Staat der Nederlanden Root CA - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\036\060\034\006\003\125\004\012\014\025\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061
\053\060\051\006\003\125\004\003\014\042\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040
\122\157\157\164\040\103\101\040\055\040\107\062
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\036\060\034\006\003\125\004\012\014\025\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061
\053\060\051\006\003\125\004\003\014\042\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040
\122\157\157\164\040\103\101\040\055\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\000\230\226\214
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\312\060\202\003\262\240\003\002\001\002\002\004\000
\230\226\214\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\060\132\061\013\060\011\006\003\125\004\006\023\002\116
\114\061\036\060\034\006\003\125\004\012\014\025\123\164\141\141
\164\040\144\145\162\040\116\145\144\145\162\154\141\156\144\145
\156\061\053\060\051\006\003\125\004\003\014\042\123\164\141\141
\164\040\144\145\162\040\116\145\144\145\162\154\141\156\144\145
\156\040\122\157\157\164\040\103\101\040\055\040\107\062\060\036
\027\015\060\070\060\063\062\066\061\061\061\070\061\067\132\027
\015\062\060\060\063\062\065\061\061\060\063\061\060\132\060\132
\061\013\060\011\006\003\125\004\006\023\002\116\114\061\036\060
\034\006\003\125\004\012\014\025\123\164\141\141\164\040\144\145
\162\040\116\145\144\145\162\154\141\156\144\145\156\061\053\060
\051\006\003\125\004\003\014\042\123\164\141\141\164\040\144\145
\162\040\116\145\144\145\162\154\141\156\144\145\156\040\122\157
\157\164\040\103\101\040\055\040\107\062\060\202\002\042\060\015
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\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\002
\017\000\060\202\002\012\002\202\002\001\000\305\131\347\157\165
\252\076\113\234\265\270\254\236\013\344\371\331\312\253\135\217
\265\071\020\202\327\257\121\340\073\341\000\110\152\317\332\341
\006\103\021\231\252\024\045\022\255\042\350\000\155\103\304\251
\270\345\037\211\113\147\275\141\110\357\375\322\340\140\210\345
\271\030\140\050\303\167\053\255\260\067\252\067\336\144\131\052
\106\127\344\113\271\370\067\174\325\066\347\200\301\266\363\324
\147\233\226\350\316\327\306\012\123\320\153\111\226\363\243\013
\005\167\110\367\045\345\160\254\060\024\040\045\343\177\165\132
\345\110\370\116\173\003\007\004\372\202\141\207\156\360\073\304
\244\307\320\365\164\076\245\135\032\010\362\233\045\322\366\254
\004\046\076\125\072\142\050\245\173\262\060\257\370\067\302\321
\272\326\070\375\364\357\111\060\067\231\046\041\110\205\001\251
\345\026\347\334\220\125\337\017\350\070\315\231\067\041\117\135
\365\042\157\152\305\022\026\140\027\125\362\145\146\246\247\060
\221\070\301\070\035\206\004\204\272\032\045\170\136\235\257\314
\120\140\326\023\207\122\355\143\037\155\145\175\302\025\030\164
\312\341\176\144\051\214\162\330\026\023\175\013\111\112\361\050
\033\040\164\153\305\075\335\260\252\110\011\075\056\202\224\315
\032\145\331\053\210\232\231\274\030\176\237\356\175\146\174\076
\275\224\270\201\316\315\230\060\170\301\157\147\320\276\137\340
\150\355\336\342\261\311\054\131\170\222\252\337\053\140\143\362
\345\136\271\343\312\372\177\120\206\076\242\064\030\014\011\150
\050\021\034\344\341\271\134\076\107\272\062\077\030\314\133\204
\365\363\153\164\304\162\164\341\343\213\240\112\275\215\146\057
\352\255\065\332\040\323\210\202\141\360\022\042\266\274\320\325
\244\354\257\124\210\045\044\074\247\155\261\162\051\077\076\127
\246\177\125\257\156\046\306\376\347\314\100\134\121\104\201\012
\170\336\112\316\125\277\035\325\331\267\126\357\360\166\377\013
\171\265\257\275\373\251\151\221\106\227\150\200\024\066\035\263
\177\273\051\230\066\245\040\372\202\140\142\063\244\354\326\272
\007\247\156\305\317\024\246\347\326\222\064\330\201\365\374\035
\135\252\134\036\366\243\115\073\270\367\071\002\003\001\000\001
\243\201\227\060\201\224\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\001\001\377\060\122\006\003\125\035\040\004\113
\060\111\060\107\006\004\125\035\040\000\060\077\060\075\006\010
\053\006\001\005\005\007\002\001\026\061\150\164\164\160\072\057
\057\167\167\167\056\160\153\151\157\166\145\162\150\145\151\144
\056\156\154\057\160\157\154\151\143\151\145\163\057\162\157\157
\164\055\160\157\154\151\143\171\055\107\062\060\016\006\003\125
\035\017\001\001\377\004\004\003\002\001\006\060\035\006\003\125
\035\016\004\026\004\024\221\150\062\207\025\035\211\342\265\361
\254\066\050\064\215\013\174\142\210\353\060\015\006\011\052\206
\110\206\367\015\001\001\013\005\000\003\202\002\001\000\250\101
\112\147\052\222\201\202\120\156\341\327\330\263\071\073\363\002
\025\011\120\121\357\055\275\044\173\210\206\073\371\264\274\222
\011\226\271\366\300\253\043\140\006\171\214\021\116\121\322\171

\200\063\373\235\110\276\354\101\103\201\037\176\107\100\034\345
\172\010\312\252\213\165\255\024\304\302\350\146\074\202\007\247
\346\047\202\133\030\346\017\156\331\120\076\212\102\030\051\306
\264\126\374\126\020\240\005\027\275\014\043\177\364\223\355\234
\032\121\276\335\105\101\277\221\044\264\037\214\351\137\317\173
\041\231\237\225\237\071\072\106\034\154\371\315\173\234\220\315
\050\251\307\251\125\273\254\142\064\142\065\023\113\024\072\125
\203\271\206\215\222\246\306\364\007\045\124\314\026\127\022\112
\202\170\310\024\331\027\202\046\055\135\040\037\171\256\376\324
\160\026\026\225\203\330\065\071\377\122\135\165\034\026\305\023
\125\317\107\314\165\145\122\112\336\360\260\247\344\012\226\013
\373\255\302\342\045\204\262\335\344\275\176\131\154\233\360\360
\330\347\312\362\351\227\070\176\211\276\314\373\071\027\141\077
\162\333\072\221\330\145\001\031\035\255\120\244\127\012\174\113
\274\234\161\163\052\105\121\031\205\314\216\375\107\247\164\225
\035\250\321\257\116\027\261\151\046\302\252\170\127\133\305\115
\247\345\236\005\027\224\312\262\137\240\111\030\215\064\351\046
\154\110\036\252\150\222\005\341\202\163\132\233\334\007\133\010
\155\175\235\327\215\041\331\374\024\040\252\302\105\337\077\347
\000\262\121\344\302\370\005\271\171\032\214\064\363\236\133\344
\067\133\153\112\337\054\127\212\100\132\066\272\335\165\104\010
\067\102\160\014\376\334\136\041\240\243\212\300\220\234\150\332
\120\346\105\020\107\170\266\116\322\145\311\303\067\337\341\102
\143\260\127\067\105\055\173\212\234\277\005\352\145\125\063\367
\071\020\305\050\052\041\172\033\212\304\044\371\077\025\310\232
\025\040\365\125\142\226\355\155\223\120\274\344\252\170\255\331
\313\012\145\207\246\146\301\304\201\243\167\072\130\036\013\356
\203\213\235\036\322\122\244\314\035\157\260\230\155\224\061\265
\370\161\012\334\271\374\175\062\140\346\353\257\212\001
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER
 CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Staat der Nederlanden Root CA - G2"
Issuer: CN=Staat der Nederlanden Root CA - G2,O=Staat der Nederlanden,C=NL
Serial Number:98:96:8c
Subject: CN=Staat der Nederlanden Root CA - G2,O=Staat der Nederlanden,C=NL
Not Valid Before: Wed Mar 26 11:18:17 2008
Not Valid After: Wed Mar 25 11:03:10 2020
Fingerprint (MD5): 7c:a5:0f:f8:5b:9a:7d:6d:30:ae:54:5a:e3:42:a2:8a
Fingerprint (SHA1): 59:af:82:79:91:86:c7:b4:75:07:cb:cf:03:57:46:eb:04:dd:b7:16
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Staat der Nederlanden Root CA - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\131\257\202\171\221\206\307\264\165\007\313\317\003\127\106\353
\004\335\267\026
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\174\245\017\370\133\232\175\155\060\256\124\132\343\102\242\212
END
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\036\060\034\006\003\125\004\012\014\025\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061
\053\060\051\006\003\125\004\003\014\042\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040
\122\157\157\164\040\103\101\040\055\040\107\062
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\004\000\230\226\214
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "NetLock Platina (Class Platinum) Ftanúsítvány"
# Issuer: CN=NetLock Platina (Class Platinum) Ftanúsítvány,OU=Tanúsítványkiadók (Certification
Services),O=NetLock Kft.,L=Budapest,C=HU
# Serial Number:49:41:2d:ec:00:10
# Subject: CN=NetLock Platina (Class Platinum) Ftanúsítvány,OU=Tanúsítványkiadók
 (Certification Services),O=NetLock Kft.,L=Budapest,C=HU
# Not Valid Before: Thu Dec 11 15:12:44 2008
# Not Valid After: Wed Dec 06 15:12:44 2028
# Fingerprint (MD5): d5:97:88:da:64:16:e7:1d:66:4a:a6:ea:37:fc:7a:dc
# Fingerprint (SHA1): ec:93:de:08:3c:93:d9:33:a9:86:b3:d5:cd:e2:5a:cb:2f:ee:cf:8e
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "NetLock Platina (Class Platinum) Ftanúsítvány"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\255\061\013\060\011\006\003\125\004\006\023\002\110\125
\061\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160
\145\163\164\061\025\060\023\006\003\125\004\012\014\014\116\145
\164\114\157\143\153\040\113\146\164\056\061\067\060\065\006\003
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\125\004\013\014\056\124\141\156\303\272\163\303\255\164\166\303
\241\156\171\153\151\141\144\303\263\153\040\050\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\123\145\162\166\151\143
\145\163\051\061\073\060\071\006\003\125\004\003\014\062\116\145
\164\114\157\143\153\040\120\154\141\164\151\156\141\040\050\103
\154\141\163\163\040\120\154\141\164\151\156\165\155\051\040\106
\305\221\164\141\156\303\272\163\303\255\164\166\303\241\156\171
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\255\061\013\060\011\006\003\125\004\006\023\002\110\125
\061\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160
\145\163\164\061\025\060\023\006\003\125\004\012\014\014\116\145
\164\114\157\143\153\040\113\146\164\056\061\067\060\065\006\003
\125\004\013\014\056\124\141\156\303\272\163\303\255\164\166\303
\241\156\171\153\151\141\144\303\263\153\040\050\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\123\145\162\166\151\143
\145\163\051\061\073\060\071\006\003\125\004\003\014\062\116\145
\164\114\157\143\153\040\120\154\141\164\151\156\141\040\050\103
\154\141\163\163\040\120\154\141\164\151\156\165\155\051\040\106
\305\221\164\141\156\303\272\163\303\255\164\166\303\241\156\171
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\006\111\101\055\354\000\020
END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\041\060\202\004\011\240\003\002\001\002\002\006\111
\101\055\354\000\020\060\015\006\011\052\206\110\206\367\015\001
\001\013\005\000\060\201\255\061\013\060\011\006\003\125\004\006
\023\002\110\125\061\021\060\017\006\003\125\004\007\014\010\102
\165\144\141\160\145\163\164\061\025\060\023\006\003\125\004\012
\014\014\116\145\164\114\157\143\153\040\113\146\164\056\061\067
\060\065\006\003\125\004\013\014\056\124\141\156\303\272\163\303
\255\164\166\303\241\156\171\153\151\141\144\303\263\153\040\050
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\123\145
\162\166\151\143\145\163\051\061\073\060\071\006\003\125\004\003
\014\062\116\145\164\114\157\143\153\040\120\154\141\164\151\156
\141\040\050\103\154\141\163\163\040\120\154\141\164\151\156\165
\155\051\040\106\305\221\164\141\156\303\272\163\303\255\164\166
\303\241\156\171\060\036\027\015\060\070\061\062\061\061\061\065
\061\062\064\064\132\027\015\062\070\061\062\060\066\061\065\061
\062\064\064\132\060\201\255\061\013\060\011\006\003\125\004\006
\023\002\110\125\061\021\060\017\006\003\125\004\007\014\010\102
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END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "NetLock Platina (Class Platinum) Ftanúsítvány"
Issuer: CN=NetLock Platina (Class Platinum) Ftanúsítvány,OU=Tanúsítványkiadók (Certification Services),O=NetLock Kft.,L=Budapest,C=HU
Serial Number:49:41:2d:ec:00:10
Subject: CN=NetLock Platina (Class Platinum) Ftanúsítvány,OU=Tanúsítványkiadók (Certification Services),O=NetLock Kft.,L=Budapest,C=HU
Not Valid Before: Thu Dec 11 15:12:44 2008
Not Valid After: Wed Dec 06 15:12:44 2028
Fingerprint (MD5): d5:97:88:da:64:16:e7:1d:66:4a:a6:ea:37:fc:7a:dc

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# Fingerprint (SHA1): ec:93:de:08:3c:93:d9:33:a9:86:b3:d5:cd:e2:5a:cb:2f:ee:cf:8e
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "NetLock Platina (Class Platinum) Ftanúsítvány"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\354\223\336\010\074\223\331\063\251\206\263\325\315\342\132\313
\057\356\317\216
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\325\227\210\332\144\026\347\035\146\112\246\352\067\374\172\334
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\255\061\013\060\011\006\003\125\004\006\023\002\110\125
\061\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160
\145\163\164\061\025\060\023\006\003\125\004\012\014\014\116\145
\164\114\157\143\153\040\113\146\164\056\061\067\060\065\006\003
\125\004\013\014\056\124\141\156\303\272\163\303\255\164\166\303
\241\156\171\153\151\141\144\303\263\153\040\050\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\123\145\162\166\151\143
\145\163\051\061\073\060\071\006\003\125\004\003\014\062\116\145
\164\114\157\143\153\040\120\154\141\164\151\156\141\040\050\103
\154\141\163\163\040\120\154\141\164\151\156\165\155\051\040\106
\305\221\164\141\156\303\272\163\303\255\164\166\303\241\156\171
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\006\111\101\055\354\000\020
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "AC Raíz Certicámara S.A."
# Issuer: CN=AC Raíz Certicámara S.A.,O=Sociedad Cameral de Certificación Digital - Certicámara S.A.,C=CO
#
 Serial Number:07:7e:52:93:7b:e0:15:e3:57:f0:69:8c:cb:ec:0c
# Subject: CN=AC Raíz Certicámara S.A.,O=Sociedad Cameral de Certificación Digital - Certicámara S.A.,C=CO
# Not Valid Before: Mon Nov 27 20:46:29 2006
# Not Valid After: Tue Apr 02 21:42:02 2030
# Fingerprint (MD5): 93:2a:3e:f6:fd:23:69:0d:71:20:d4:2b:47:99:2b:a6
# Fingerprint (SHA1): cb:a1:c5:f8:b0:e3:5e:b8:b9:45:12:d3:f9:34:a2:e9:06:10:d3:36
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
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CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AC Raíz Certicámara S.A."
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\173\061\013\060\011\006\003\125\004\006\023\002\103\117\061
\107\060\105\006\003\125\004\012\014\076\123\157\143\151\145\144
\141\144\040\103\141\155\145\162\141\154\040\144\145\040\103\145
\162\164\151\146\151\143\141\143\151\303\263\156\040\104\151\147
\151\164\141\154\040\055\040\103\145\162\164\151\143\303\241\155
\141\162\141\040\123\056\101\056\061\043\060\041\006\003\125\004
\003\014\032\101\103\040\122\141\303\255\172\040\103\145\162\164
\151\143\303\241\155\141\162\141\040\123\056\101\056
END
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
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\107\060\105\006\003\125\004\012\014\076\123\157\143\151\145\144
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\006\003\125\004\012\014\076\123\157\143\151\145\144\141\144\040
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\040\123\056\101\056\061\043\060\041\006\003\125\004\003\014\032
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\134\050\062\160\065\254\332\270\310\165\146\374\233\114\071\107
\216\033\157\233\115\002\124\042\063\357\141\272\236\051\204\357
\116\113\063\107\166\227\152\313\176\137\375\025\246\236\102\103
\133\146\132\212\210\015\367\026\271\077\121\145\053\146\152\213
\321\070\122\242\326\106\021\372\374\232\034\164\236\217\227\013
\002\117\144\306\365\150\323\113\055\377\244\067\036\213\077\277
\104\276\141\106\241\204\075\010\047\114\201\040\167\211\010\352
\147\100\136\154\010\121\137\064\132\214\226\150\315\327\367\211
\302\034\323\062\000\257\122\313\323\140\133\052\072\107\176\153
\060\063\241\142\051\177\112\271\341\055\347\024\043\016\016\030
\107\341\171\374\025\125\320\261\374\045\161\143\165\063\034\043
\053\257\134\331\355\107\167\140\016\073\017\036\322\300\334\144
\005\211\374\170\326\134\054\046\103\251
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "AC Raíz Certicámara S.A."
Issuer: CN=AC Raíz Certicámara S.A.,O=Sociedad Cameral de Certificación Digital - Certicámara S.A.,C=CO
Serial Number:07:7e:52:93:7b:e0:15:e3:57:f0:69:8c:cb:ec:0c
Subject: CN=AC Raíz Certicámara S.A.,O=Sociedad Cameral de Certificación

```
 Digital - Certicámara S.A.,C=CO
# Not Valid Before: Mon Nov 27 20:46:29 2006
# Not Valid After: Tue Apr 02 21:42:02 2030
# Fingerprint (MD5): 93:2a:3e:f6:fd:23:69:0d:71:20:d4:2b:47:99:2b:a6
# Fingerprint (SHA1): cb:a1:c5:f8:b0:e3:5e:b8:b9:45:12:d3:f9:34:a2:e9:06:10:d3:36
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AC Raíz Certicámara S.A."
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\313\241\305\370\260\343\136\270\271\105\022\323\371\064\242\351
\006\020\323\066
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\223\052\076\366\375\043\151\015\161\040\324\053\107\231\053\246
END
CKA_ISSUER MULTILINE_OCTAL
\060\173\061\013\060\011\006\003\125\004\006\023\002\103\117\061
\107\060\105\006\003\125\004\012\014\076\123\157\143\151\145\144
\141\144\040\103\141\155\145\162\141\154\040\144\145\040\103\145
\162\164\151\146\151\143\141\143\151\303\263\156\040\104\151\147
\151\164\141\154\040\055\040\103\145\162\164\151\143\303\241\155
\141\162\141\040\123\056\101\056\061\043\060\041\006\003\125\004
\003\014\032\101\103\040\122\141\303\255\172\040\103\145\162\164
\151\143\303\241\155\141\162\141\040\123\056\101\056
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\017\007\176\122\223\173\340\025\343\127\360\151\214\313\354
\014
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Cisco Root CA 2048"
# Issuer: CN=Cisco Root CA 2048,O=Cisco Systems
# Serial Number:5f:f8:7b:28:2b:54:dc:8d:42:a3:15:b5:68:c9:ad:ff
# Subject: CN=Cisco Root CA 2048,O=Cisco Systems
# Not Valid Before: Fri May 14 20:17:12 2004
# Not Valid After: Mon May 14 20:25:42 2029
# Fingerprint (MD5): be:39:5a:be:07:8a:b1:12:17:25:cc:1d:46:34:3c:b2
# Fingerprint (SHA1): de:99:0c:ed:99:e0:43:1f:60:ed:c3:93:7e:7c:d5:bf:0e:d9:e5:fa
CKA_CLASS
```

```
 CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Cisco Root CA 2048"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\065\061\026\060\024\006\003\125\004\012\023\015\103\151\163
\143\157\040\123\171\163\164\145\155\163\061\033\060\031\006\003
\125\004\003\023\022\103\151\163\143\157\040\122\157\157\164\040
\103\101\040\062\060\064\070
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\065\061\026\060\024\006\003\125\004\012\023\015\103\151\163
\143\157\040\123\171\163\164\145\155\163\061\033\060\031\006\003
\125\004\003\023\022\103\151\163\143\157\040\122\157\157\164\040
\103\101\040\062\060\064\070
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\137\370\173\050\053\124\334\215\102\243\025\265\150\311
\255\377
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\103\060\202\002\053\240\003\002\001\002\002\020\137
\370\173\050\053\124\334\215\102\243\025\265\150\311\255\377\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\065
\061\026\060\024\006\003\125\004\012\023\015\103\151\163\143\157
\040\123\171\163\164\145\155\163\061\033\060\031\006\003\125\004
\003\023\022\103\151\163\143\157\040\122\157\157\164\040\103\101
\040\062\060\064\070\060\036\027\015\060\064\060\065\061\064\062
\060\061\067\061\062\132\027\015\062\071\060\065\061\064\062\060
\062\065\064\062\132\060\065\061\026\060\024\006\003\125\004\012
\023\015\103\151\163\143\157\040\123\171\163\164\145\155\163\061
\033\060\031\006\003\125\004\003\023\022\103\151\163\143\157\040
\122\157\157\164\040\103\101\040\062\060\064\070\060\202\001\040
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\001\015\000\060\202\001\010\002\202\001\001\000\260\232\271
\253\247\257\012\167\247\342\161\266\264\146\142\224\170\210\107
\306\142\125\204\100\062\277\300\253\056\245\034\161\326\274\156
\173\250\252\272\156\322\025\210\110\105\235\242\374\203\320\314
\271\214\340\046\150\160\112\170\337\041\027\236\364\141\005\311
\025\310\317\026\332\065\141\211\224\103\250\204\250\061\230\170
\233\271\116\157\054\123\022\154\315\035\255\053\044\273\061\304
\053\377\203\104\157\266\075\044\167\011\352\277\052\250\037\152
\126\366\040\017\021\124\227\201\165\247\045\316\131\152\202\145
\357\267\352\347\342\215\165\213\156\362\335\117\246\136\142\234
\317\020\012\144\320\116\155\316\053\314\133\365\140\245\047\107
```

\215\151\364\177\316\033\160\336\160\033\040\326\156\315\246\001
\250\074\022\322\251\077\240\153\136\273\216\040\213\172\221\343
\265\150\356\240\347\304\001\164\250\123\013\053\112\232\017\145
\022\016\202\115\216\143\375\357\353\233\032\333\123\246\023\140
\257\302\175\327\307\154\027\045\324\163\373\107\144\120\201\200
\224\114\341\277\256\113\034\337\222\355\056\005\337\002\001\003
\243\121\060\117\060\013\006\003\125\035\017\004\004\003\002\001
\206\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001
\001\377\060\035\006\003\125\035\016\004\026\004\024\047\363\310
\025\036\156\232\002\011\026\255\053\240\211\140\137\332\173\057
\252\060\020\006\011\053\006\001\004\001\202\067\025\001\004\003
\002\001\000\060\015\006\011\052\206\110\206\367\015\001\001\005
\005\000\003\202\001\001\000\235\235\204\204\243\101\251\174\167
\014\267\123\312\116\104\120\142\357\124\174\323\165\027\034\350
\340\306\110\113\266\376\114\072\031\201\126\260\126\356\031\226
\142\252\132\243\144\301\366\116\124\063\306\167\376\305\034\272
\345\135\045\312\365\360\223\232\203\021\056\346\313\370\164\105
\376\347\005\270\253\347\337\313\113\341\067\204\332\271\213\227
\160\036\360\342\213\327\260\330\016\235\261\151\326\052\221\173
\251\111\117\176\346\216\225\330\203\047\074\325\150\111\016\324
\235\366\056\353\247\276\353\060\244\254\037\104\374\225\253\063
\006\373\175\140\012\336\264\212\143\260\234\251\362\244\271\123
\001\207\320\150\244\047\177\253\377\351\372\311\100\070\210\147
\264\071\306\204\157\127\311\123\333\272\216\356\300\103\262\370
\011\203\156\377\146\317\076\357\027\263\130\030\045\011\064\136
\343\313\326\024\266\354\362\222\157\164\344\057\201\052\325\222
\221\340\340\227\074\062\150\005\205\113\321\367\127\342\122\035
\223\032\124\237\005\160\300\112\161\140\036\103\013\140\036\376
\243\316\201\031\341\013\065
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Cisco Root CA 2048"
Issuer: CN=Cisco Root CA 2048,O=Cisco Systems
Serial Number:5f:f8:7b:28:2b:54:dc:8d:42:a3:15:b5:68:c9:ad:ff
Subject: CN=Cisco Root CA 2048,O=Cisco Systems
Not Valid Before: Fri May 14 20:17:12 2004
Not Valid After: Mon May 14 20:25:42 2029
Fingerprint (MD5): be:39:5a:be:07:8a:b1:12:17:25:cc:1d:46:34:3c:b2
Fingerprint (SHA1): de:99:0c:ed:99:e0:43:1f:60:ed:c3:93:7e:7c:d5:bf:0e:d9:e5:fa
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE

```
 CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Cisco Root CA 2048"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\336\231\014\355\231\340\103\037\140\355\303\223\176\174\325\277
\016\331\345\372
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\276\071\132\276\007\212\261\022\027\045\314\035\106\064\074\262
END
CKA_ISSUER MULTILINE_OCTAL
\060\065\061\026\060\024\006\003\125\004\012\023\015\103\151\163
\143\157\040\123\171\163\164\145\155\163\061\033\060\031\006\003
\125\004\003\023\022\103\151\163\143\157\040\122\157\157\164\040
\103\101\040\062\060\064\070
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\137\370\173\050\053\124\334\215\102\243\025\265\150\311
\255\377
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "CA Disig"
# Issuer: CN=CA Disig,O=Disig
 a.s.,L=Bratislava,C=SK
# Serial Number: 1 (0x1)
# Subject: CN=CA Disig,O=Disig a.s.,L=Bratislava,C=SK
# Not Valid Before: Wed Mar 22 01:39:34 2006
# Not Valid After: Tue Mar 22 01:39:34 2016
# Fingerprint (MD5): 3f:45:96:39:e2:50:87:f7:bb:fe:98:0c:3c:20:98:e6
# Fingerprint (SHA1): 2a:c8:d5:8b:57:ce:bf:2f:49:af:f2:fc:76:8f:51:14:62:90:7a:41
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CA Disig"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\112\061\013\060\011\006\003\125\004\006\023\002\123\113\061
\023\060\021\006\003\125\004\007\023\012\102\162\141\164\151\163
\154\141\166\141\061\023\060\021\006\003\125\004\012\023\012\104
\151\163\151\147\040\141\056\163\056\061\021\060\017\006\003\125
\004\003\023\010\103\101\040\104\151\163\151\147
END
```

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\112\061\013\060\011\006\003\125\004\006\023\002\123\113\061
\023\060\021\006\003\125\004\007\023\012\102\162\141\164\151\163
\154\141\166\141\061\023\060\021\006\003\125\004\012\023\012\104
\151\163\151\147\040\141\056\163\056\061\021\060\017\006\003\125
\004\003\023\010\103\101\040\104\151\163\151\147
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\017\060\202\002\367\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\112\061\013\060\011\006\003\125\004\006\023\002\123\113\061\023
\060\021\006\003\125\004\007\023\012\102\162\141\164\151\163\154
\141\166\141\061\023\060\021\006\003\125\004\012\023\012\104\151
\163\151\147\040\141\056\163\056\061\021\060\017\006\003\125\004
\003\023\010\103\101\040\104\151\163\151\147\060\036\027\015\060
\066\060\063\062\062\060\061\063\071\063\064\132\027\015\061\066
\060\063\062\062\060\061\063\071\063\064\132\060\112\061\013\060
\011\006\003\125\004\006\023\002\123\113\061\023\060\021\006\003
\125\004\007\023\012\102\162\141\164\151\163\154\141\166\141\061
\023\060\021\006\003\125\004\012\023\012\104\151\163\151\147\040
\141\056\163\056\061\021\060\017\006\003\125\004\003\023\010\103
\101\040\104\151\163\151\147\060\202\001\042\060\015\006\011\052
\206\110\206\367\015\001\001\001\005\000\003\202\001\017\000\060
\202\001\012\002\202\001\001\000\222\366\061\301\175\210\375\231
\001\251\330\173\362\161\165\361\061\306\363\165\146\372\121\050
\106\204\227\170\064\274\154\374\274\105\131\210\046\030\112\304
\067\037\241\112\104\275\343\161\004\365\104\027\342\077\374\110
\130\157\134\236\172\011\272\121\067\042\043\146\103\041\260\074
\144\242\370\152\025\016\077\353\121\341\124\251\335\006\231\327
\232\074\124\213\071\003\077\017\305\316\306\353\203\162\002\250
\037\161\363\055\370\165\010\333\142\114\350\372\316\371\347\152
\037\266\153\065\202\272\342\217\026\222\175\005\014\154\106\003
\135\300\355\151\277\072\301\212\240\350\216\331\271\105\050\207
\010\354\264\312\025\276\202\335\265\104\213\055\255\206\014\150
\142\155\205\126\362\254\024\143\072\306\321\231\254\064\170\126
\113\317\266\255\077\214\212\327\004\345\343\170\114\365\206\252
\365\217\372\075\154\161\243\055\312\147\353\150\173\156\063\251
\014\202\050\250\114\152\041\100\025\040\014\046\133\203\302\251
\026\025\300\044\202\135\053\026\255\312\143\366\164\000\260\337
\103\304\020\140\126\147\143\105\002\003\001\000\001\243\201\377
\060\201\374\060\017\006\003\125\035\023\001\001\377\004\005\060
\003\001\001\377\060\035\006\003\125\035\016\004\026\004\024\215
\262\111\150\235\162\010\045\271\300\047\365\120\223\126\110\106

\161\371\217\060\016\006\003\125\035\017\001\001\377\004\004\003
\002\001\006\060\066\006\003\125\035\021\004\057\060\055\201\023
\143\141\157\160\145\162\141\164\157\162\100\144\151\163\151\147
\056\163\153\206\026\150\164\164\160\072\057\057\167\167\167\056
\144\151\163\151\147\056\163\153\057\143\141\060\146\006\003\125
\035\037\004\137\060\135\060\055\240\053\240\051\206\047\150\164
\164\160\072\057\057\167\167\167\056\144\151\163\151\147\056\163
\153\057\143\141\057\143\162\154\057\143\141\137\144\151\163\151
\147\056\143\162\154\060\054\240\052\240\050\206\046\150\164\164
\160\072\057\057\143\141\056\144\151\163\151\147\056\163\153\057
\143\141\057\143\162\154\057\143\141\137\144\151\163\151\147\056
\143\162\154\060\032\006\003\125\035\040\004\023\060\021\060\017
\006\015\053\201\036\221\223\346\012\000\000\000\001\001\001\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\003\202
\001\001\000\135\064\164\141\114\257\073\330\377\237\155\130\066
\034\075\013\201\015\022\053\106\020\200\375\347\074\047\320\172
\310\251\266\176\164\060\063\243\072\212\173\164\300\171\171\102
\223\155\377\261\051\024\202\253\041\214\057\027\371\077\046\057
\365\131\306\357\200\006\267\232\111\051\354\316\176\161\074\152
\020\101\300\366\323\232\262\174\132\221\234\300\254\133\310\115
\136\367\341\123\377\103\167\374\236\113\147\154\327\363\203\321
\240\340\177\045\337\270\230\013\232\062\070\154\060\240\363\377
\010\025\063\367\120\112\173\076\243\076\040\251\334\057\126\200
\012\355\101\120\260\311\364\354\262\343\046\104\000\016\157\236
\006\274\042\226\123\160\145\304\120\012\106\153\244\057\047\201
\022\047\023\137\020\241\166\316\212\173\067\352\303\071\141\003
\225\230\072\347\154\210\045\010\374\171\150\015\207\175\142\370
\264\137\373\305\330\114\275\130\274\077\103\133\324\036\001\115
\074\143\276\043\357\214\315\132\120\270\150\124\371\012\231\063
\021\000\341\236\302\106\167\202\365\131\006\214\041\114\207\011
\315\345\250
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "CA Disig"
Issuer: CN=CA Disig,O=Disig a.s.,L=Bratislava,C=SK
Serial Number: 1 (0x1)
Subject: CN=CA Disig,O=Disig a.s.,L=Bratislava,C=SK
Not Valid Before: Wed Mar 22 01:39:34 2006
Not Valid After: Tue Mar 22 01:39:34 2016
#
 Fingerprint (MD5): 3f:45:96:39:e2:50:87:f7:bb:fe:98:0c:3c:20:98:e6
Fingerprint (SHA1): 2a:c8:d5:8b:57:ce:bf:2f:49:af:f2:fc:76:8f:51:14:62:90:7a:41
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

```
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CA Disig"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\052\310\325\213\127\316\277\057\111\257\362\374\166\217\121\024
\142\220\172\101
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\077\105\226\071\342\120\207\367\273\376\230\014\074\040\230\346
END
CKA_ISSUER MULTILINE_OCTAL
\060\112\061\013\060\011\006\003\125\004\006\023\002\123\113\061
\023\060\021\006\003\125\004\007\023\012\102\162\141\164\151\163
\154\141\166\141\061\023\060\021\006\003\125\004\012\023\012\104
\151\163\151\147\040\141\056\163\056\061\021\060\017\006\003\125
\004\003\023\010\103\101\040\104\151\163\151\147
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION
 CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "UCA Global Root"
# Issuer: CN=UCA Global Root,O=UniTrust,C=CN
# Serial Number: 8 (0x8)
# Subject: CN=UCA Global Root,O=UniTrust,C=CN
# Not Valid Before: Tue Jan 01 00:00:00 2008
# Not Valid After: Thu Dec 31 00:00:00 2037
# Fingerprint (MD5): c1:d9:51:c0:84:b8:6a:75:e8:2f:d7:d6:5f:7e:ac:46
# Fingerprint (SHA1): 0b:97:2c:9e:a6:e7:cc:58:d9:3b:20:bf:71:ec:41:2e:72:09:fa:bf
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "UCA Global Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\072\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\021\060\017\006\003\125\004\012\023\010\125\156\151\124\162\165
\163\164\061\030\060\026\006\003\125\004\003\023\017\125\103\101
\040\107\154\157\142\141\154\040\122\157\157\164
END
```

CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\072\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\021\060\017\006\003\125\004\012\023\010\125\156\151\124\162\165
\163\164\061\030\060\026\006\003\125\004\003\023\017\125\103\101
\040\107\154\157\142\141\154\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\010
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\222\060\202\003\172\240\003\002\001\002\002\001\010
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\072\061\013\060\011\006\003\125\004\006\023\002\103\116\061\021
\060\017\006\003\125\004\012\023\010\125\156\151\124\162\165\163
\164\061\030\060\026\006\003\125\004\003\023\017\125\103\101\040
\107\154\157\142\141\154\040\122\157\157\164\060\036\027\015\060
\070\060\061\060\061\060\060\060\060\060\060\132\027\015\063\067
\061\062\063\061\060\060\060\060\060\060\132\060\072\061\013\060
\011\006\003\125\004\006\023\002\103\116\061\021\060\017\006\003
\125\004\012\023\010\125\156\151\124\162\165\163\164\061\030\060
\026\006\003\125\004\003\023\017\125\103\101\040\107\154\157\142
\141\154\040\122\157\157\164\060\202\002\042\060\015\006\011\052
\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060
\202\002\012\002\202\002\001\000\332\263\345\006\120\077\366\163
\367\304\062\277\106\245\045\142\063\207\260\150\376\247\337\210
\003\143\175\002\226\375\353\207\311\356\342\010\273\235\273\273
\344\101\217\307\060\211\017\155\044\300\004\154\024\224\201\115
\240\015\164\146\363\360\205\257\370\144\031\336\271\351\201\223
\320\050\205\231\107\102\112\054\074\070\047\112\314\377\371\154
\031\327\265\363\357\233\256\133\064\006\327\217\242\023\006\234
\212\204\102\325\263\243\220\150\155\201\220\356\115\204\354\114
\160\116\055\336\044\071\316\031\000\103\223\170\371\010\206\035
\103\321\364\162\274\005\300\147\372\300\121\322\311\205\007\044
\256\071\036\172\315\101\322\066\253\141\352\053\253\360\040\125
\231\074\155\055\034\056\056\165\226\330\162\227\340\014\312\151
\163\356\165\053\025\011\340\216\155\273\332\023\377\106\250\350
\000\014\254\007\057\035\271\272\271\321\240\367\231\236\164\134
\031\005\146\061\317\076\052\122\376\157\237\363\271\275\371\301
\201\365\067\332\056\114\201\045\135\366\331\224\232\323\065\213
\040\050\067\137\121\353\175\142\307\251\223\321\371\320\064\313
\251\047\046\054\050\220\222\073\125\143\267\027\016\124\163\253
\257\174\354\072\253\160\063\254\041\373\042\046\263\206\254\043
\251\327\177\155\313\010\040\362\257\100\365\377\104\107\161\335
\047\335\023\050\241\352\166\071\371\020\240\240\115\100\244\047
\262\131\025\053\154\055\044\267\044\143\170\367\103\030\172\017
\115\021\343\350\254\207\102\215\347\130\161\244\253\156\242\300

\227\174\273\343\023\113\312\333\273\153\010\371\151\264\004\162
\325\303\106\271\167\352\377\272\373\351\360\072\014\065\366\217
\017\256\006\204\026\335\224\125\324\357\312\047\267\003\074\305
\034\046\052\365\074\250\245\225\233\206\361\212\211\147\370\307
\014\146\261\355\101\277\202\246\000\150\072\042\064\356\036\353
\345\157\211\164\117\152\252\152\250\127\147\122\324\040\141\301
\316\123\313\375\044\177\137\046\337\241\010\151\226\240\236\376
\111\103\342\323\352\332\304\361\210\061\041\156\034\341\315\363
\165\016\040\104\026\314\175\163\164\065\105\054\073\201\324\040
\354\266\011\214\076\110\262\111\002\003\001\000\001\243\201\242
\060\201\237\060\013\006\003\125\035\017\004\004\003\002\001\006
\060\014\006\003\125\035\023\004\005\060\003\001\001\377\060\143
\006\003\125\035\045\004\134\060\132\006\010\053\006\001\005\005
\007\003\001\006\010\053\006\001\005\005\007\003\002\006\010\053
\006\001\005\005\007\003\003\006\010\053\006\001\005\005\007\003
\004\006\010\053\006\001\005\005\007\003\005\006\010\053\006\001
\005\005\007\003\006\006\010\053\006\001\005\005\007\003\007\006
\010\053\006\001\005\005\007\003\010\006\010\053\006\001\005\005
\007\003\011\060\035\006\003\125\035\016\004\026\004\024\331\303
\323\370\200\222\147\314\135\322\072\242\327\161\242\264\304\070
\200\055\060\015\006\011\052\206\110\206\367\015\001\001\005\005
\000\003\202\002\001\000\320\210\171\312\010\252\367\013\064\240
\116\011\302\351\176\065\110\211\160\204\043\057\121\303\053\057
\136\333\123\153\133\165\010\052\124\272\062\016\325\306\161\205
\261\227\111\200\366\204\320\360\272\267\161\224\310\171\153\246
\305\104\350\102\242\255\045\055\127\057\346\326\061\051\372\031
\211\124\051\176\267\176\107\066\151\055\156\062\274\324\165\332
\102\163\270\116\345\203\100\163\262\135\337\324\104\163\246\142
\013\333\252\156\005\214\310\177\106\117\071\205\220\235\274\033
\124\051\254\245\327\376\345\130\126\127\155\054\231\241\111\041
\325\141\306\214\141\341\165\044\301\001\335\055\033\066\303\057
\022\314\013\326\170\213\165\200\351\101\271\210\261\312\074\251
\026\306\116\025\343\162\066\366\324\240\101\205\257\212\145\160
\115\265\104\020\120\354\355\337\155\346\331\306\300\022\361\113
\072\057\163\351\074\251\356\033\252\057\065\245\233\237\115\305
\064\204\137\046\024\151\263\043\261\211\162\024\370\351\115\121
\042\003\377\112\206\304\034\350\173\171\012\333\107\045\201\176
\374\064\204\254\131\270\130\103\344\075\103\011\124\164\302\320
\375\331\357\156\131\367\162\140\231\166\157\365\047\247\273\203
\244\112\201\354\051\201\364\167\113\341\102\022\125\324\206\052
\022\266\360\125\233\001\056\335\366\250\343\031\303\316\107\057
\300\170\141\030\132\307\145\374\235\106\133\127\334\174\016\273
\226\203\020\174\125\030\011\004\256\321\367\213\052\076\240\346
\120\326\060\066\327\347\213\070\123\354\111\104\340\317\244\337
\361\123\173\213\132\266\366\021\220\113\326\165\363\376\002\363
\051\257\360\043\162\175\024\355\251\135\337\172\201\236\233\222
\042\374\036\370\001\105\101\227\307\153\001\141\276\063\150\362
\240\145\204\146\274\340\052\244\150\323\161\354\307\010\336\243

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\303\311\066\112\064\361\027\342\200\257\040\041\223\224\036\346
\025\323\124\142\361\265\070\057\343\314\271\147\004\251\272\345
\356\371\020\156\313\056\176\023\257\222\024\376\363\047\163\173
\070\374\163\155\271\271\210\366\156\214\013\365\374\377\011\016
\263\055\136\173\165\343\222\044\342\346\341\130\076\113\050\003
\165\153\030\233\107\014
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Trust for "UCA Global Root"
# Issuer: CN=UCA Global Root,O=UniTrust,C=CN
# Serial Number: 8 (0x8)
# Subject: CN=UCA Global Root,O=UniTrust,C=CN
# Not Valid Before: Tue Jan 01 00:00:00 2008
# Not Valid After: Thu Dec 31 00:00:00 2037
# Fingerprint (MD5): c1:d9:51:c0:84:b8:6a:75:e8:2f:d7:d6:5f:7e:ac:46
# Fingerprint (SHA1): 0b:97:2c:9e:a6:e7:cc:58:d9:3b:20:bf:71:ec:41:2e:72:09:fa:bf
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "UCA Global Root"
CKA_CERT_SHA1_HASH
 MULTILINE_OCTAL
\013\227\054\236\246\347\314\130\331\073\040\277\161\354\101\056
\162\011\372\277
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\301\331\121\300\204\270\152\165\350\057\327\326\137\176\254\106
END
CKA_ISSUER MULTILINE_OCTAL
\060\072\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\021\060\017\006\003\125\004\012\023\010\125\156\151\124\162\165
\163\164\061\030\060\026\006\003\125\004\003\023\017\125\103\101
\040\107\154\157\142\141\154\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\010
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
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```
# Microsoft Code Signing Only Certificate
# Certificate "UCA Root"
# Issuer: CN=UCA Root,O=UniTrust,C=CN
# Serial Number: 9 (0x9)
# Subject: CN=UCA Root,O=UniTrust,C=CN
# Not Valid Before: Thu Jan 01 00:00:00 2004
# Not Valid After: Mon Dec 31 00:00:00
 2029
# Fingerprint (MD5): 8f:91:e7:ee:e3:fc:da:86:ca:fc:dc:70:ed:b7:b7:0c
# Fingerprint (SHA1): 82:50:be:d5:a2:14:43:3a:66:37:7c:bc:10:ef:83:f6:69:da:3a:67
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "UCA Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\063\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\021\060\017\006\003\125\004\012\023\010\125\156\151\124\162\165
\163\164\061\021\060\017\006\003\125\004\003\023\010\125\103\101
\040\122\157\157\164
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\063\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\021\060\017\006\003\125\004\012\023\010\125\156\151\124\162\165
\163\164\061\021\060\017\006\003\125\004\003\023\010\125\103\101
\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\011
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\204\060\202\002\154\240\003\002\001\002\002\001\011
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\063\061\013\060\011\006\003\125\004\006\023\002\103\116\061\021
\060\017\006\003\125\004\012\023\010\125\156\151\124\162\165\163
\164\061\021\060\017\006\003\125\004\003\023\010\125\103\101\040
\122\157\157\164\060\036\027\015\060\064\060\061\060\061\060\060
\060\060\060\060\132\027\015\062\071\061\062\063\061\060\060\060
\060\060\060\132\060\063\061\013\060\011\006\003\125\004\006\023
\002\103\116\061\021\060\017\006\003\125\004\012\023\010\125\156
\151\124\162\165\163\164\061\021\060\017\006\003\125\004\003\023
\010\125\103\101\040\122\157\157\164\060\202\001\042\060\015\006
\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017
\000\060\202\001\012\002\202\001\001\000\263\135\007\312\206\046
\175\153\342\373\070\011\016\314\202\302\152\032\000\242\025\137
\326\351\324\001\267\126\003\001\131\217\365\070\151\044\166\302
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\136\053\305\366\053\277\257\373\101\375\017\132\374\253\327\203
\160\115\060\230\321\236\262\166\273\222\326\273\351\020\050\151
\050\066\104\350\361\054\327\130\174\044\326\177\002\072\360\201
\153\141\140\077\364\063\336\155\345\352\050\122\117\374\251\035
\143\174\013\272\352\256\304\150\106\344\336\217\301\247\262\266
\130\132\155\035\054\331\214\072\267\210\313\205\324\367\350\003
\136\375\262\115\120\350\326\037\377\256\002\077\213\117\226\041
\074\233\327\045\311\035\077\373\230\261\131\344\360\251\073\257
\263\315\205\054\342\140\106\314\157\216\240\353\360\064\305\361
\102\030\140\256\022\355\106\165\034\345\330\251\226\132\276\336
\132\326\170\147\226\133\223\167\120\362\156\033\336\226\121\112
\246\326\113\103\165\041\146\215\167\354\002\204\166\134\104\020
\266\035\141\154\344\243\040\175\267\215\272\017\221\165\307\215
\337\274\002\140\250\051\250\275\075\103\002\003\001\000\001\243
\201\242\060\201\237\060\013\006\003\125\035\017\004\004\003\002
\001\006\060\014\006\003\125\035\023\004\005\060\003\001\001\377
\060\143\006\003\125\035\045\004\134\060\132\006\010\053\006\001
\005\005\007\003\001\006\010\053\006\001\005\005\007\003\002\006
\010\053\006\001\005\005\007\003\003\006\010\053\006\001\005\005
\007\003\004\006\010\053\006\001\005\005\007\003\005\006\010\053
\006\001\005\005\007\003\006\006\010\053\006\001\005\005\007\003
\007\006\010\053\006\001\005\005\007\003\010\006\010\053\006\001
\005\005\007\003\011\060\035\006\003\125\035\016\004\026\004\024
\333\037\065\363\153\114\377\102\061\144\233\315\273\132\036\035
\110\020\267\356\060\015\006\011\052\206\110\206\367\015\001\001
\005\005\000\003\202\001\001\000\070\154\267\210\361\255\372\130
\067\164\321\350\160\336\234\047\131\313\344\025\327\240\303\140
\327\210\200\004\305\060\114\075\324\032\353\006\136\131\107\346
\274\146\313\340\010\374\350\065\354\142\175\312\300\332\301\170
\257\345\106\157\373\211\202\043\217\366\327\123\146\125\240\336
\045\022\073\161\066\026\125\022\166\373\075\370\124\133\061\272
\000\006\370\175\125\345\247\166\203\252\134\112\227\246\052\050
\337\275\306\154\013\043\225\216\063\177\036\136\100\037\023\124
\054\234\345\265\016\335\027\050\256\153\001\323\122\051\365\042
\037\220\071\364\334\142\150\360\074\206\107\354\270\005\105\273
\267\014\226\224\306\147\313\043\161\320\216\164\042\326\101\353
\003\250\266\352\276\304\001\022\265\263\135\100\166\006\040\324
\144\270\051\106\006\212\316\037\223\232\020\356\373\252\132\264
\334\057\325\053\313\366\327\005\204\230\005\221\013\204\367\075
\372\326\371\172\372\054\025\352\066\202\103\267\267\270\343\363
\161\001\355\103\103\242\005\105\303\050\005\007\065\343\001\245
\070\036\200\324\327\303\331\336
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

```
# Microsoft Code Signing Only Certificate
# Trust for "UCA Root"
# Issuer: CN=UCA Root,O=UniTrust,C=CN
# Serial Number: 9 (0x9)
# Subject: CN=UCA Root,O=UniTrust,C=CN
# Not Valid Before: Thu Jan 01 00:00:00 2004
# Not Valid
 After: Mon Dec 31 00:00:00 2029
# Fingerprint (MD5): 8f:91:e7:ee:e3:fc:da:86:ca:fc:dc:70:ed:b7:b7:0c
# Fingerprint (SHA1): 82:50:be:d5:a2:14:43:3a:66:37:7c:bc:10:ef:83:f6:69:da:3a:67
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "UCA Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\202\120\276\325\242\024\103\072\146\067\174\274\020\357\203\366
\151\332\072\147
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\217\221\347\356\343\374\332\206\312\374\334\160\355\267\267\014
END
CKA_ISSUER MULTILINE_OCTAL
\060\063\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\021\060\017\006\003\125\004\012\023\010\125\156\151\124\162\165
\163\164\061\021\060\017\006\003\125\004\003\023\010\125\103\101
\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\011
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING
 CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Starfield Services Root Certificate Authority"
# Issuer: CN=Starfield Services Root Certificate
Authority,OU=http://certificates.starfieldtech.com/repository/,O=Starfield Technologies\,
Inc.,L=Scottsdale,ST=Arizona,C=US
# Serial Number: 0 (0x0)
# Subject: CN=Starfield Services Root Certificate
Authority,OU=http://certificates.starfieldtech.com/repository/,O=Starfield Technologies\,
Inc.,L=Scottsdale,ST=Arizona,C=US
# Not Valid Before: Mon Jun 02 00:00:00 2008
# Not Valid After: Mon Dec 31 23:59:59 2029
```

```
# Fingerprint (MD5): cf:8f:3b:62:a3:ca:ca:71:1b:a3:e1:cb:48:57:35:1f
# Fingerprint (SHA1): 5d:00:38:60:f0:02:ed:82:9d:ea:a4:18:68:f7:88:18:6d:62:12:7f
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Services Root Certificate Authority"
CKA_CERTIFICATE_TYPE
 CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\317\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012
\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\072
\060\070\006\003\125\004\013\023\061\150\164\164\160\072\057\057
\143\145\162\164\151\146\151\143\141\164\145\163\056\163\164\141
\162\146\151\145\154\144\164\145\143\150\056\143\157\155\057\162
\145\160\157\163\151\164\157\162\171\057\061\066\060\064\006\003
\125\004\003\023\055\123\164\141\162\146\151\145\154\144\040\123
\145\162\166\151\143\145\163\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\317\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012
\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\072
\060\070\006\003\125\004\013\023\061\150\164\164\160\072\057\057
\143\145\162\164\151\146\151\143\141\164\145\163\056\163\164\141
\162\146\151\145\154\144\164\145\143\150\056\143\157\155\057\162
\145\160\157\163\151\164\157\162\171\057\061\066\060\064\006\003
\125\004\003\023\055\123\164\141\162\146\151\145\154\144\040\123
\145\162\166\151\143\145\163\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\176\060\202\003\146\240\003\002\001\002\002\001\000
```

\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\201\317\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157\156
\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157\164
\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012\023
\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150\156
\157\154\157\147\151\145\163\054\040\111\156\143\056\061\072\060
\070\006\003\125\004\013\023\061\150\164\164\160\072\057\057\143
\145\162\164\151\146\151\143\141\164\145\163\056\163\164\141\162
\146\151\145\154\144\164\145\143\150\056\143\157\155\057\162\145
\160\157\163\151\164\157\162\171\057\061\066\060\064\006\003\125
\004\003\023\055\123\164\141\162\146\151\145\154\144\040\123\145
\162\166\151\143\145\163\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164
\171\060\036\027\015\060\070\060\066\060\062\060\060\060\060\060
\060\132\027\015\062\071\061\062\063\061\062\063\065\071\065\071
\132\060\201\317\061\013\060\011\006\003\125\004\006\023\002\125
\123\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172
\157\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143
\157\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004
\012\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143
\150\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061
\072\060\070\006\003\125\004\013\023\061\150\164\164\160\072\057
\057\143\145\162\164\151\146\151\143\141\164\145\163\056\163\164
\141\162\146\151\145\154\144\164\145\143\150\056\143\157\155\057
\162\145\160\157\163\151\164\157\162\171\057\061\066\060\064\006
\003\125\004\003\023\055\123\164\141\162\146\151\145\154\144\040
\123\145\162\166\151\143\145\163\040\122\157\157\164\040\103\145
\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162
\151\164\171\060\202\001\042\060\015\006\011\052\206\110\206\367
\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002
\202\001\001\000\362\314\126\052\115\346\026\067\132\227\352\155
\065\070\321\020\233\333\270\334\251\004\011\225\063\056\011\305
\000\173\032\170\102\217\310\364\005\216\376\322\150\203\036\116
\231\315\027\333\107\076\120\363\211\322\347\334\230\373\005\370
\252\326\143\364\124\115\301\161\003\260\037\033\166\263\032\064
\060\163\361\050\062\140\203\375\264\234\327\266\322\042\067\174
\031\252\073\336\023\020\151\156\134\006\323\157\243\362\146\132
\166\102\110\257\200\321\124\131\075\324\271\324\333\355\271\253
\071\231\364\356\142\253\341\170\162\173\330\070\215\100\266\314
\334\022\000\160\103\205\151\330\030\343\312\127\162\237\264\337
\077\374\042\250\102\122\365\167\133\231\360\126\055\046\160\026
\066\022\302\047\236\127\246\174\320\043\361\171\334\243\223\130
\050\070\075\237\255\066\103\356\067\373\370\371\103\255\310\126
\362\224\022\136\102\353\163\270\023\015\313\246\325\206\271\252
\050\152\124\003\241\077\017\051\353\011\000\350\077\136\242\177
\027\075\241\053\370\276\320\165\035\244\204\343\253\027\145\006
\122\000\257\261\002\003\001\000\001\243\143\060\141\060\017\006

\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060\016
\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060\035
\006\003\125\035\016\004\026\004\024\264\306\177\032\103\314\233
\165\135\057\304\113\362\213\230\020\351\361\121\020\060\037\006
\003\125\035\043\004\030\060\026\200\024\264\306\177\032\103\314
\233\165\135\057\304\113\362\213\230\020\351\361\121\020\060\015
\006\011\052\206\110\206\367\015\001\001\005\005\000\003\202\001
\001\000\254\200\273\304\045\005\013\130\244\344\176\051\176\257
\274\073\354\055\300\104\056\371\221\340\322\073\062\047\220\055
\366\200\011\134\302\253\145\044\332\070\020\106\304\111\322\375
\232\253\050\110\167\210\306\351\157\321\107\221\325\065\117\024
\011\250\133\100\007\035\174\161\126\313\211\102\324\277\141\300
\042\367\056\337\253\363\162\103\213\100\350\224\353\260\046\332
\321\023\323\253\320\066\055\056\072\225\263\167\056\025\071\030
\014\151\272\252\200\355\361\123\116\063\233\150\004\342\240\060
\056\327\321\135\324\246\146\235\204\346\347\273\074\211\273\066
\235\374\027\251\075\125\053\212\373\233\304\114\204\377\337\322
\276\151\033\164\260\250\366\352\260\234\262\051\164\201\114\150
\072\232\177\163\045\071\365\023\340\146\221\151\324\127\113\267
\356\255\105\340\054\303\210\323\276\224\111\211\037\377\160\325
\133\155\071\023\260\035\313\230\346\147\143\015\143\366\373\303
\327\141\162\203\210\077\160\176\123\311\236\211\124\326\117\177
\175\161\271\256\361\140\213\167\140\354\370\277\372\152\243\234
\001\042
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Starfield Services Root Certificate Authority"
Issuer: CN=Starfield Services Root Certificate
Authority,OU=http://certificates.starfieldtech.com/repository/,O=Starfield Technologies\,
Inc.,L=Scottsdale,ST=Arizona,C=US
#
 Serial Number: 0 (0x0)
Subject: CN=Starfield Services Root Certificate
Authority,OU=http://certificates.starfieldtech.com/repository/,O=Starfield Technologies\,
Inc.,L=Scottsdale,ST=Arizona,C=US
Not Valid Before: Mon Jun 02 00:00:00 2008
Not Valid After: Mon Dec 31 23:59:59 2029
Fingerprint (MD5): cf:8f:3b:62:a3:ca:ca:71:1b:a3:e1:cb:48:57:35:1f
Fingerprint (SHA1): 5d:00:38:60:f0:02:ed:82:9d:ea:a4:18:68:f7:88:18:6d:62:12:7f
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE

```
CKA_LABEL UTF8 "Starfield Services Root Certificate Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\135\000\070\140\360\002\355\202\235\352\244\030\150\367\210\030
\155\142\022\177
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\317\217\073\142\243\312\312\161\033\243\341\313\110\127\065\037
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\317\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012
\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\072
\060\070\006\003\125\004\013\023\061\150\164\164\160\072\057\057
\143\145\162\164\151\146\151\143\141\164\145\163\056\163\164\141
\162\146\151\145\154\144\164\145\143\150\056\143\157\155\057\162
\145\160\157\163\151\164\157\162\171\057\061\066\060\064\006\003
\125\004\003\023\055\123\164\141\162\146\151\145\154\144\040\123
\145\162\166\151\143\145\163\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED
 CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "I.CA - Qualified root certificate"
# Issuer: O=První certifikaní autorita\, a.s.,CN=I.CA - Qualified root certificate,C=CZ
# Serial Number:9d:2a:60
# Subject: O=První certifikaní autorita\, a.s.,CN=I.CA - Qualified root certificate,C=CZ
# Not Valid Before: Tue Apr 01 00:00:00 2008
# Not Valid After: Sun Apr 01 00:00:00 2018
# Fingerprint (MD5): 48:d1:1e:62:78:01:c2:6e:43:69:a4:2c:ee:13:0a:b5
# Fingerprint (SHA1): 64:90:2a:d7:27:7a:f3:e3:2c:d8:cc:1d:c7:9d:e1:fd:7f:80:69:ea
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "I.CA - Qualified root certificate"
```

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\150\061\013\060\011\006\003\125\004\006\023\002\103\132\061
\052\060\050\006\003\125\004\003\014\041\111\056\103\101\040\055
\040\121\165\141\154\151\146\151\145\144\040\162\157\157\164\040
\143\145\162\164\151\146\151\143\141\164\145\061\055\060\053\006
\003\125\004\012\014\044\120\162\166\156\303\255\040\143\145\162
\164\151\146\151\153\141\304\215\156\303\255\040\141\165\164\157
\162\151\164\141\054\040\141\056\163\056
END
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\150\061\013\060\011\006\003\125\004\006\023\002\103\132\061
\052\060\050\006\003\125\004\003\014\041\111\056\103\101\040\055
\040\121\165\141\154\151\146\151\145\144\040\162\157\157\164\040
\143\145\162\164\151\146\151\143\141\164\145\061\055\060\053\006
\003\125\004\012\014\044\120\162\166\156\303\255\040\143\145\162
\164\151\146\151\153\141\304\215\156\303\255\040\141\165\164\157
\162\151\164\141\054\040\141\056\163\056
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\000\235\052\140
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\071\060\202\003\041\240\003\002\001\002\002\004\000
\235\052\140\060\015\006\011\052\206\110\206\367\015\001\001\005
\005\000\060\150\061\013\060\011\006\003\125\004\006\023\002\103
\132\061\052\060\050\006\003\125\004\003\014\041\111\056\103\101
\040\055\040\121\165\141\154\151\146\151\145\144\040\162\157\157
\164\040\143\145\162\164\151\146\151\143\141\164\145\061\055\060
\053\006\003\125\004\012\014\044\120\162\166\156\303\255\040\143
\145\162\164\151\146\151\153\141\304\215\156\303\255\040\141\165
\164\157\162\151\164\141\054\040\141\056\163\056\060\036\027\015
\060\070\060\064\060\061\060\060\060\060\060\060\132\027\015\061
\070\060\064\060\061\060\060\060\060\060\060\132\060\150\061\013
\060\011\006\003\125\004\006\023\002\103\132\061\052\060\050\006
\003\125\004\003\014\041\111\056\103\101\040\055\040\121\165\141
\154\151\146\151\145\144\040\162\157\157\164\040\143\145\162\164
\151\146\151\143\141\164\145\061\055\060\053\006\003\125\004\012
\014\044\120\162\166\156\303\255\040\143\145\162\164\151\146\151
\153\141\304\215\156\303\255\040\141\165\164\157\162\151\164\141
\054\040\141\056\163\056\060\202\001\042\060\015\006\011\052\206
\110\206\367\015\001\001\001\005\000\003\202\001\017\000\060\202
\001\012\002\202\001\001\000\253\010\210\244\360\164\362\237\370
\333\326\167\215\060\031\076\246\305\307\212\305\275\335\346\002
\256\216\075\120\165\270\257\175\066\253\376\365\355\010\147\264
\000\212\230\301\003\143\210\121\362\033\066\211\164\132\055\310

\304\202\304\077\271\210\375\154\375\072\035\025\005\104\225\200
\032\246\206\313\041\165\220\205\134\260\160\000\207\064\250\321
\037\111\375\154\070\155\152\254\270\105\237\274\024\327\146\324
\041\343\047\012\215\165\340\132\057\012\113\264\347\176\163\243
\052\275\160\361\221\206\010\217\277\220\204\034\207\251\365\231
\045\045\224\301\343\156\007\301\113\007\133\124\374\064\313\106
\067\234\305\241\040\316\246\254\207\251\203\074\070\117\300\100
\363\351\377\233\327\071\166\344\023\043\165\265\377\241\102\256
\134\206\117\305\116\103\266\231\013\122\123\040\250\263\302\114
\323\000\054\025\322\131\154\012\237\041\265\163\026\171\036\206
\045\356\032\373\223\236\255\143\361\114\342\166\061\136\067\357
\374\320\251\066\344\371\021\351\172\374\120\347\101\043\003\064
\270\175\272\016\317\335\123\002\003\001\000\001\243\201\352\060
\201\347\060\017\006\003\125\035\023\001\001\377\004\005\060\003
\001\001\377\060\016\006\003\125\035\017\001\001\377\004\004\003
\002\001\006\060\201\244\006\003\125\035\040\004\201\234\060\201
\231\060\201\226\006\014\053\006\001\004\001\201\270\110\001\004
\000\001\060\201\205\060\201\202\006\010\053\006\001\005\005\007
\002\002\060\166\032\164\124\145\156\164\157\040\143\145\162\164
\151\146\151\153\141\164\040\152\145\040\166\171\144\141\156\040
\152\141\153\157\040\153\166\141\154\151\146\151\153\157\166\141
\156\171\040\163\171\163\164\145\155\157\166\171\040\143\145\162
\164\151\146\151\153\141\164\040\166\040\163\157\165\154\141\144
\165\040\163\145\040\172\141\153\157\156\145\155\040\062\062\067
\057\062\060\060\060\040\123\142\056\040\166\040\160\154\141\164
\156\145\155\040\172\156\145\156\151\056\060\035\006\003\125\035
\016\004\026\004\024\150\235\176\326\304\045\071\373\073\240\067
\326\117\334\214\321\172\360\126\131\060\015\006\011\052\206\110
\206\367\015\001\001\005\005\000\003\202\001\001\000\162\365\274
\006\215\322\054\226\362\202\333\130\173\107\360\100\144\345\056
\033\357\372\340\372\323\361\162\110\001\104\362\210\364\336\230
\201\123\204\347\175\116\107\347\061\067\126\256\263\301\060\157
\306\253\110\203\365\230\123\122\151\052\050\301\100\145\353\145
\347\264\060\013\360\253\016\245\022\045\277\364\120\135\277\243
\176\345\321\164\370\012\050\256\102\234\260\024\122\304\240\140
\135\367\105\027\102\272\102\055\233\222\373\156\224\263\160\107
\040\010\235\123\360\260\255\275\251\204\132\335\007\052\014\315
\053\155\141\050\337\073\222\050\354\121\201\177\121\174\216\056
\177\235\351\274\301\064\075\213\255\201\255\361\036\164\146\103
\074\101\115\270\056\063\117\261\072\036\333\022\337\066\216\161
\377\127\143\261\326\217\264\075\206\022\152\317\102\060\264\223
\026\352\231\352\002\133\376\010\356\262\117\160\277\063\000\347
\172\112\070\241\362\110\221\246\036\313\043\262\070\235\360\056
\111\242\311\210\126\145\145\216\072\147\105\214\214\013\342\252
\261\113\007\377\261\037\272\024\317\162\372\247\170
END
CKA_NSS_MOZILLA_CA_POLICY

```
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Trust for "I.CA - Qualified root certificate"
# Issuer: O=První certifikaní autorita\, a.s.,CN=I.CA - Qualified root certificate,C=CZ
# Serial Number:9d:2a:60
# Subject: O=První certifikaní autorita\, a.s.,CN=I.CA - Qualified root certificate,C=CZ
# Not Valid Before: Tue Apr 01 00:00:00 2008
# Not Valid After: Sun Apr 01 00:00:00 2018
# Fingerprint (MD5): 48:d1:1e:62:78:01:c2:6e:43:69:a4:2c:ee:13:0a:b5
# Fingerprint (SHA1): 64:90:2a:d7:27:7a:f3:e3:2c:d8:cc:1d:c7:9d:e1:fd:7f:80:69:ea
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL
 CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "I.CA - Qualified root certificate"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\144\220\052\327\047\172\363\343\054\330\314\035\307\235\341\375
\177\200\151\352
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\110\321\036\142\170\001\302\156\103\151\244\054\356\023\012\265
END
CKA_ISSUER MULTILINE_OCTAL
\060\150\061\013\060\011\006\003\125\004\006\023\002\103\132\061
\052\060\050\006\003\125\004\003\014\041\111\056\103\101\040\055
\040\121\165\141\154\151\146\151\145\144\040\162\157\157\164\040
\143\145\162\164\151\146\151\143\141\164\145\061\055\060\053\006
\003\125\004\012\014\044\120\162\166\156\303\255\040\143\145\162
\164\151\146\151\153\141\304\215\156\303\255\040\141\165\164\157
\162\151\164\141\054\040\141\056\163\056
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\000\235\052\140
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST
 CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "I.CA - Standard root certificate"
# Issuer: O=Prvni certifikacni autorita a.s.,CN=I.CA - Standard root certificate,C=CZ
# Serial Number:13:d6:20
```

```
# Subject: O=Prvni certifikacni autorita a.s.,CN=I.CA - Standard root certificate,C=CZ
# Not Valid Before: Tue Apr 01 00:00:00 2008
# Not Valid After: Sun Apr 01 00:00:00 2018
# Fingerprint (MD5): 04:68:e9:24:7e:41:ce:d7:6c:44:16:30:70:3d:dd:b9
# Fingerprint (SHA1): ab:16:dd:14:4e:cd:c0:fc:4b:aa:b6:2e:cf:04:08:89:6f:de:52:b7
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "I.CA - Standard root certificate"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\143\061\013\060\011\006\003\125\004\006\023\002\103\132\061
\051\060\047\006\003\125\004\003\023\040\111\056\103\101\040\055
\040\123\164\141\156\144\141\162\144\040\162\157\157\164\040\143
\145\162\164\151\146\151\143\141\164\145\061\051\060\047\006\003
\125\004\012\023\040\120\162\166\156\151\040\143\145\162\164\151
\146\151\153\141\143\156\151\040\141\165\164\157\162\151\164\141
\040\141\056\163\056
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\143\061\013\060\011\006\003\125\004\006\023\002\103\132\061
\051\060\047\006\003\125\004\003\023\040\111\056\103\101\040\055
\040\123\164\141\156\144\141\162\144\040\162\157\157\164\040\143
\145\162\164\151\146\151\143\141\164\145\061\051\060\047\006\003
\125\004\012\023\040\120\162\166\156\151\040\143\145\162\164\151
\146\151\153\141\143\156\151\040\141\165\164\157\162\151\164\141
\040\141\056\163\056
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\023\326\040
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\056\060\202\003\026\240\003\002\001\002\002\003\023
\326\040\060\015\006\011\052\206\110\206\367\015\001\001\005\005
\000\060\143\061\013\060\011\006\003\125\004\006\023\002\103\132
\061\051\060\047\006\003\125\004\003\023\040\111\056\103\101\040
\055\040\123\164\141\156\144\141\162\144\040\162\157\157\164\040
\143\145\162\164\151\146\151\143\141\164\145\061\051\060\047\006
\003\125\004\012\023\040\120\162\166\156\151\040\143\145\162\164
\151\146\151\153\141\143\156\151\040\141\165\164\157\162\151\164
\141\040\141\056\163\056\060\036\027\015\060\070\060\064\060\061
\060\060\060\060\060\060\132\027\015\061\070\060\064\060\061\060
\060\060\060\060\060\132\060\143\061\013\060\011\006\003\125\004
\006\023\002\103\132\061\051\060\047\006\003\125\004\003\023\040
\111\056\103\101\040\055\040\123\164\141\156\144\141\162\144\040
```

\162\157\157\164\040\143\145\162\164\151\146\151\143\141\164\145
\061\051\060\047\006\003\125\004\012\023\040\120\162\166\156\151
\040\143\145\162\164\151\146\151\153\141\143\156\151\040\141\165
\164\157\162\151\164\141\040\141\056\163\056\060\202\001\042\060
\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202
\001\017\000\060\202\001\012\002\202\001\001\000\321\055\025\304
\071\114\152\241\304\345\363\053\264\375\251\026\351\270\121\217
\067\221\331\247\323\227\220\266\160\151\207\365\257\131\322\142
\101\130\325\363\225\215\002\025\372\146\234\301\041\024\330\037
\255\372\052\154\164\126\241\142\341\361\260\255\270\376\322\243
\340\221\241\265\256\123\255\215\244\015\017\131\140\227\052\374
\243\056\163\065\043\163\314\250\246\241\024\155\277\211\303\204
\070\363\144\131\314\061\363\340\371\047\140\012\074\101\005\157
\132\122\360\217\156\122\156\354\136\210\157\340\100\214\041\107
\127\042\351\070\156\346\372\363\044\264\256\257\057\163\077\200
\325\062\217\214\331\204\031\330\140\316\333\151\215\076\257\002
\257\256\336\257\120\365\317\346\263\141\030\304\340\335\360\116
\112\146\015\172\163\040\267\344\324\223\206\107\141\330\117\312
\072\216\253\302\077\306\042\027\243\135\235\040\306\305\016\044
\151\310\246\175\146\006\315\106\346\063\341\103\164\223\365\203
\142\322\260\105\042\001\244\166\275\353\121\223\130\154\372\032
\241\237\165\200\332\330\000\342\361\210\115\077\002\003\001\000
\001\243\201\352\060\201\347\060\017\006\003\125\035\023\001\001
\377\004\005\060\003\001\001\377\060\016\006\003\125\035\017\001
\001\377\004\004\003\002\001\006\060\035\006\003\125\035\016\004
\026\004\024\353\067\244\276\271\157\140\027\373\323\377\055\140
\341\004\036\257\317\306\323\060\201\244\006\003\125\035\040\004
\201\234\060\201\231\060\201\226\006\014\053\006\001\004\001\201
\270\110\001\001\000\001\060\201\205\060\201\202\006\010\053\006
\001\005\005\007\002\002\060\166\032\164\124\145\156\164\157\040
\143\145\162\164\151\146\151\153\141\164\040\152\145\040\166\171
\144\141\156\040\152\141\153\157\040\153\166\141\154\151\146\151
\153\157\166\141\156\171\040\163\171\163\164\145\155\157\166\171
\040\143\145\162\164\151\146\151\153\141\164\040\166\040\163\157
\165\154\141\144\165\040\163\145\040\172\141\153\157\156\145\155
\040\062\062\067\057\062\060\060\060\040\123\142\056\040\166\040
\160\154\141\164\156\145\155\040\172\156\145\156\151\056\060\015
\006\011\052\206\110\206\367\015\001\001\005\005\000\003\202\001
\001\000\027\042\130\252\057\030\125\002\241\114\066\111\067\113
\233\163\272\256\143\066\016\213\053\204\105\067\314\372\340\147
\367\240\163\152\147\150\126\274\141\250\064\232\050\272\146\054
\141\233\213\034\370\004\160\214\206\343\101\357\224\171\015\335
\064\207\004\356\265\236\061\153\071\364\176\130\345\362\260\004
\115\251\127\045\111\340\013\325\344\354\175\016\076\073\001\340
\214\374\122\220\223\346\362\260\253\365\061\167\314\321\311\103
\202\253\017\056\264\371\230\256\076\343\104\364\244\003\151\125
\332\134\216\333\301\271\254\344\230\325\166\025\106\241\056\132
\014\042\140\240\302\353\160\177\161\003\260\150\323\061\144\315

\352\313\113\125\211\202\076\134\146\313\032\010\230\107\302\336
\331\056\070\114\005\375\055\214\372\343\042\045\271\222\375\326
\262\055\312\242\064\234\337\111\357\325\204\001\054\222\377\005
\101\012\147\306\102\153\236\313\330\237\220\274\015\017\020\175
\307\146\275\352\163\007\340\030\352\121\201\264\105\100\074\017
\241\042\067\025\001\205\251\056\174\016\137\135\316\152\223\276
\331\276
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "I.CA - Standard root certificate"
Issuer: O=Prvni certifikacni autorita a.s.,CN=I.CA - Standard root certificate,C=CZ
Serial Number:13:d6:20
Subject: O=Prvni certifikacni autorita a.s.,CN=I.CA - Standard root certificate,C=CZ
Not Valid Before: Tue Apr 01 00:00:00 2008
Not Valid After: Sun Apr 01 00:00:00 2018
Fingerprint (MD5): 04:68:e9:24:7e:41:ce:d7:6c:44:16:30:70:3d:dd:b9
Fingerprint (SHA1): ab:16:dd:14:4e:cd:c0:fc:4b:aa:b6:2e:cf:04:08:89:6f:de:52:b7
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8
"I.CA - Standard root certificate"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\253\026\335\024\116\315\300\374\113\252\266\056\317\004\010\211
\157\336\122\267
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\004\150\351\044\176\101\316\327\154\104\026\060\160\075\335\271
END
CKA_ISSUER MULTILINE_OCTAL
\060\143\061\013\060\011\006\003\125\004\006\023\002\103\132\061
\051\060\047\006\003\125\004\003\023\040\111\056\103\101\040\055
\040\123\164\141\156\144\141\162\144\040\162\157\157\164\040\143
\145\162\164\151\146\151\143\141\164\145\061\051\060\047\006\003
\125\004\012\023\040\120\162\166\156\151\040\143\145\162\164\151
\146\151\153\141\143\156\151\040\141\165\164\157\162\151\164\141
\040\141\056\163\056
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\023\326\040
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code
Signing Only Certificate
Certificate "e-Guven Kok Elektronik Sertifika Hizmet Saglayicisi"
Issuer: CN=e-Guven Kok Elektronik Sertifika Hizmet Saglayicisi,O=Elektronik Bilgi Guvenligi A.S.,C=TR
Serial Number:44:99:8d:3c:c0:03:27:bd:9c:76:95:b9:ea:db:ac:b5
Subject: CN=e-Guven Kok Elektronik Sertifika Hizmet Saglayicisi,O=Elektronik Bilgi Guvenligi A.S.,C=TR
Not Valid Before: Thu Jan 04 11:32:48 2007
Not Valid After: Wed Jan 04 11:32:48 2017
Fingerprint (MD5): 3d:41:29:cb:1e:aa:11:74:cd:5d:b0:62:af:b0:43:5b
Fingerprint (SHA1): dd:e1:d2:a9:01:80:2e:1d:87:5e:84:b3:80:7e:4b:b1:fd:99:41:34
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "e-Guven Kok Elektronik Sertifika Hizmet Saglayicisi"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\165\061\013\060\011\006\003\125\004\006\023\002\124\122\061
\050\060\046\006\003\125\004\012\023\037\105\154\145\153\164\162
\157\156\151\153\040\102\151\154\147\151\040\107\165\166\145\156
\154\151\147\151\040\101\056\123\056\061\074\060\072\006\003\125
\004\003\023\063\145\055\107\165\166\145\156\040\113\157\153\040
\105\154\145\153\164\162\157\156\151\153\040\123\145\162\164\151
\146\151\153\141\040\110\151\172\155\145\164\040\123\141\147\154
\141\171\151\143\151\163\151
END
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\165\061\013\060\011\006\003\125\004\006\023\002\124\122\061
\050\060\046\006\003\125\004\012\023\037\105\154\145\153\164\162
\157\156\151\153\040\102\151\154\147\151\040\107\165\166\145\156
\154\151\147\151\040\101\056\123\056\061\074\060\072\006\003\125
\004\003\023\063\145\055\107\165\166\145\156\040\113\157\153\040
\105\154\145\153\164\162\157\156\151\153\040\123\145\162\164\151
\146\151\153\141\040\110\151\172\155\145\164\040\123\141\147\154
\141\171\151\143\151\163\151
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\104\231\215\074\300\003\047\275\234\166\225\271\352\333
\254\265
END
CKA_VALUE

MULTILINE_OCTAL

\060\202\003\266\060\202\002\236\240\003\002\001\002\002\020\104
\231\215\074\300\003\047\275\234\166\225\271\352\333\254\265\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\165
\061\013\060\011\006\003\125\004\006\023\002\124\122\061\050\060
\046\006\003\125\004\012\023\037\105\154\145\153\164\162\157\156
\151\153\040\102\151\154\147\151\040\107\165\166\145\156\154\151
\147\151\040\101\056\123\056\061\074\060\072\006\003\125\004\003
\023\063\145\055\107\165\166\145\156\040\113\157\153\040\105\154
\145\153\164\162\157\156\151\153\040\123\145\162\164\151\146\151
\153\141\040\110\151\172\155\145\164\040\123\141\147\154\141\171
\151\143\151\163\151\060\036\027\015\060\067\060\061\060\064\061
\061\063\062\064\070\132\027\015\061\067\060\061\060\064\061\061
\063\062\064\070\132\060\165\061\013\060\011\006\003\125\004\006
\023\002\124\122\061\050\060\046\006\003\125\004\012\023\037\105
\154\145\153\164\162\157\156\151\153\040\102\151\154\147\151\040
\107\165\166\145\156\154\151\147\151\040\101\056\123\056\061\074
\060\072\006\003\125\004\003\023\063\145\055\107\165\166\145\156
\040\113\157\153\040\105\154\145\153\164\162\157\156\151\153\040
\123\145\162\164\151\146\151\153\141\040\110\151\172\155\145\164
\040\123\141\147\154\141\171\151\143\151\163\151\060\202\001\042
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\001\017\000\060\202\001\012\002\202\001\001\000\303\022\040
\236\260\136\000\145\215\116\106\273\200\134\351\054\006\227\325
\363\162\311\160\271\347\113\145\200\301\113\276\176\074\327\124
\061\224\336\325\022\272\123\026\002\352\130\143\357\133\330\363
\355\052\032\252\161\110\243\334\020\055\137\137\353\134\113\234
\226\010\102\045\050\021\314\212\132\142\001\120\325\353\011\123
\057\370\303\217\376\263\374\375\235\242\343\137\175\276\355\013
\340\140\353\151\354\063\355\330\215\373\022\111\203\000\311\213
\227\214\073\163\052\062\263\022\367\271\115\362\364\115\155\307
\346\326\046\067\010\362\331\375\153\134\243\345\110\134\130\274
\102\276\003\132\201\272\034\065\014\000\323\365\043\176\161\060
\010\046\070\334\045\021\107\055\363\272\043\020\245\277\274\002
\367\103\136\307\376\260\067\120\231\173\017\223\316\346\103\054
\303\176\015\362\034\103\146\140\313\141\061\107\207\243\117\256
\275\126\154\114\274\274\370\005\312\144\364\351\064\241\054\265
\163\341\302\076\350\310\311\064\045\010\134\363\355\246\307\224
\237\255\210\103\045\327\341\071\140\376\254\071\131\002\003\001
\000\001\243\102\060\100\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\006\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026
\004\024\237\356\104\263\224\325\372\221\117\056\331\125\232\004
\126\333\055\304\333\245\060\015\006\011\052\206\110\206\367\015
\001\001\005\005\000\003\202\001\001\000\177\137\271\123\133\143
\075\165\062\347\372\304\164\032\313\106\337\106\151\034\122\317
\252\117\302\150\353\377\200\251\121\350\075\142\167\211\075\012
\165\071\361\156\135\027\207\157\150\005\301\224\154\331\135\337

\332\262\131\313\245\020\212\312\314\071\315\237\353\116\336\122
\377\014\360\364\222\251\362\154\123\253\233\322\107\240\037\164
\367\233\232\361\057\025\237\172\144\060\030\007\074\052\017\147
\312\374\017\211\141\235\145\245\074\345\274\023\133\010\333\343
\377\355\273\006\273\152\006\261\172\117\145\306\202\375\036\234
\213\265\015\356\110\273\270\275\252\010\264\373\243\174\313\237
\315\220\166\134\206\226\170\127\012\146\371\130\032\235\375\227
\051\140\336\021\246\220\034\031\034\356\001\226\042\064\064\056
\221\371\267\304\047\321\173\346\277\373\200\104\132\026\345\353
\340\324\012\070\274\344\221\343\325\353\134\301\254\337\033\152
\174\236\345\165\322\266\227\207\333\314\207\053\103\072\204\010
\257\253\074\333\367\074\146\061\206\260\235\123\171\355\370\043
\336\102\343\055\202\361\017\345\372\227
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL
 CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "e-Guven Kok Elektronik Sertifika Hizmet Saglayicisi"
Issuer: CN=e-Guven Kok Elektronik Sertifika Hizmet Saglayicisi,O=Elektronik Bilgi Guvenligi A.S.,C=TR
Serial Number:44:99:8d:3c:c0:03:27:bd:9c:76:95:b9:ea:db:ac:b5
Subject: CN=e-Guven Kok Elektronik Sertifika Hizmet Saglayicisi,O=Elektronik Bilgi Guvenligi A.S.,C=TR
Not Valid Before: Thu Jan 04 11:32:48 2007
Not Valid After: Wed Jan 04 11:32:48 2017
Fingerprint (MD5): 3d:41:29:cb:1e:aa:11:74:cd:5d:b0:62:af:b0:43:5b
Fingerprint (SHA1): dd:e1:d2:a9:01:80:2e:1d:87:5e:84:b3:80:7e:4b:b1:fd:99:41:34
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "e-Guven Kok Elektronik Sertifika Hizmet Saglayicisi"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\335\341\322\251\001\200\056\035\207\136\204\263\200\176\113\261
\375\231\101\064
END
CKA_CERT_MD5_HASH
 MULTILINE_OCTAL
\075\101\051\313\036\252\021\164\315\135\260\142\257\260\103\133
END
CKA_ISSUER MULTILINE_OCTAL
\060\165\061\013\060\011\006\003\125\004\006\023\002\124\122\061
\050\060\046\006\003\125\004\012\023\037\105\154\145\153\164\162
\157\156\151\153\040\102\151\154\147\151\040\107\165\166\145\156
\154\151\147\151\040\101\056\123\056\061\074\060\072\006\003\125
\004\003\023\063\145\055\107\165\166\145\156\040\113\157\153\040

```
\105\154\145\153\164\162\157\156\151\153\040\123\145\162\164\151
\146\151\153\141\040\110\151\172\155\145\164\040\123\141\147\154
\141\171\151\143\151\163\151
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\104\231\215\074\300\003\047\275\234\166\225\271\352\333
\254\265
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
#
 Certificate "Japanese Government"
# Issuer: OU=ApplicationCA,O=Japanese Government,C=JP
# Serial Number: 49 (0x31)
# Subject: OU=ApplicationCA,O=Japanese Government,C=JP
# Not Valid Before: Wed Dec 12 15:00:00 2007
# Not Valid After: Tue Dec 12 15:00:00 2017
# Fingerprint (MD5): 7e:23:4e:5b:a7:a5:b4:25:e9:00:07:74:11:62:ae:d6
# Fingerprint (SHA1): 7f:8a:b0:cf:d0:51:87:6a:66:f3:36:0f:47:c8:8d:8c:d3:35:fc:74
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Japanese Government"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\103\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\034\060\032\006\003\125\004\012\023\023\112\141\160\141\156\145
\163\145\040\107\157\166\145\162\156\155\145\156\164\061\026\060
\024\006\003\125\004\013\023\015\101\160\160\154\151\143\141\164
\151\157\156\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\103\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\034\060\032\006\003\125\004\012\023\023\112\141\160\141\156\145
\163\145\040\107\157\166\145\162\156\155\145\156\164\061\026\060
\024\006\003\125\004\013\023\015\101\160\160\154\151\143\141\164
\151\157\156\103\101
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\001\061
END
```

CKA_VALUE MULTILINE_OCTAL

\060\202\003\240\060\202\002\210\240\003\002\001\002\002\001\061
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\103\061\013\060\011\006\003\125\004\006\023\002\112\120\061\034
\060\032\006\003\125\004\012\023\023\112\141\160\141\156\145\163
\145\040\107\157\166\145\162\156\155\145\156\164\061\026\060\024
\006\003\125\004\013\023\015\101\160\160\154\151\143\141\164\151
\157\156\103\101\060\036\027\015\060\067\061\062\061\062\061\065
\060\060\060\060\132\027\015\061\067\061\062\061\062\061\065\060
\060\060\060\132\060\103\061\013\060\011\006\003\125\004\006\023
\002\112\120\061\034\060\032\006\003\125\004\012\023\023\112\141
\160\141\156\145\163\145\040\107\157\166\145\162\156\155\145\156
\164\061\026\060\024\006\003\125\004\013\023\015\101\160\160\154
\151\143\141\164\151\157\156\103\101\060\202\001\042\060\015\006
\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017
\000\060\202\001\012\002\202\001\001\000\247\155\340\164\116\207
\217\245\006\336\150\242\333\206\231\113\144\015\161\360\012\005
\233\216\252\341\314\056\322\152\073\301\172\264\227\141\215\212
\276\306\232\234\006\264\206\121\344\067\016\164\170\176\137\212
\177\224\244\327\107\010\375\120\132\126\344\150\254\050\163\240
\173\351\177\030\222\100\117\055\235\365\256\104\110\163\066\006
\236\144\054\073\064\043\333\134\046\344\161\171\217\324\156\171
\042\271\223\301\312\315\301\126\355\210\152\327\240\071\041\004
\127\054\242\365\274\107\101\117\136\064\042\225\265\037\051\155
\136\112\363\115\162\276\101\126\040\207\374\351\120\107\327\060
\024\356\134\214\125\272\131\215\207\374\043\336\223\320\004\214
\375\357\155\275\320\172\311\245\072\152\162\063\306\112\015\005
\027\052\055\173\261\247\330\326\360\276\364\077\352\016\050\155
\101\141\043\166\170\303\270\145\244\363\132\256\314\302\252\331
\347\130\336\266\176\235\205\156\237\052\012\157\237\003\051\060
\227\050\035\274\267\317\124\051\116\121\061\371\047\266\050\046
\376\242\143\346\101\026\360\063\230\107\002\003\001\000\001\243
\201\236\060\201\233\060\035\006\003\125\035\016\004\026\004\024
\124\132\313\046\077\161\314\224\106\015\226\123\352\153\110\320
\223\376\102\165\060\016\006\003\125\035\017\001\001\377\004\004
\003\002\001\006\060\131\006\003\125\035\021\004\122\060\120\244
\116\060\114\061\013\060\011\006\003\125\004\006\023\002\112\120
\061\030\060\026\006\003\125\004\012\014\017\346\227\245\346\234
\254\345\233\275\346\224\277\345\272\234\061\043\060\041\006\003
\125\004\013\014\032\343\202\242\343\203\227\343\203\252\343\202
\261\343\203\274\343\202\267\343\203\247\343\203\263\103\101\060
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\003
\202\001\001\000\071\152\104\166\167\070\072\354\243\147\106\017
\371\213\006\250\373\152\220\061\316\176\354\332\321\211\174\172
\353\056\014\275\231\062\347\260\044\326\303\377\365\262\210\011
\207\054\343\124\341\243\246\262\010\013\300\205\250\310\322\234
\161\366\035\237\140\374\070\063\023\341\236\334\013\137\332\026

\120\051\173\057\160\221\017\231\272\064\064\215\225\164\305\176
\170\251\146\135\275\312\041\167\102\020\254\146\046\075\336\221
\253\375\025\360\157\355\154\137\020\370\363\026\366\003\212\217
\247\022\021\014\313\375\077\171\301\234\375\142\356\243\317\124
\014\321\053\137\027\076\343\076\277\300\053\076\011\233\376\210
\246\176\264\222\027\374\043\224\201\275\156\247\305\214\302\353
\021\105\333\370\101\311\226\166\352\160\137\171\022\153\344\243
\007\132\005\357\047\111\317\041\237\212\114\011\160\146\251\046
\301\053\021\116\063\322\016\374\326\154\322\016\062\144\150\377
\255\005\170\137\003\035\250\343\220\254\044\340\017\100\247\113
\256\213\050\267\202\312\030\007\346\267\133\164\351\040\031\177
\262\033\211\124
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Japanese Government"
Issuer: OU=ApplicationCA,O=Japanese Government,C=JP
Serial Number: 49 (0x31)
Subject: OU=ApplicationCA,O=Japanese Government,C=JP
Not Valid Before: Wed Dec 12 15:00:00 2007
Not Valid After: Tue Dec 12 15:00:00 2017
Fingerprint (MD5): 7e:23:4e:5b:a7:a5:b4:25:e9:00:07:74:11:62:ae:d6
Fingerprint (SHA1): 7f:8a:b0:cf:d0:51:87:6a:66:f3:36:0f:47:c8:8d:8c:d3:35:fc:74
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Japanese Government"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\177\212\260\317\320\121\207\152\146\363\066\017\107\310\215\214
\323\065\374\164
END
CKA_CERT_MD5_HASH
 MULTILINE_OCTAL
\176\043\116\133\247\245\264\045\351\000\007\164\021\142\256\326
END
CKA_ISSUER MULTILINE_OCTAL
\060\103\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\034\060\032\006\003\125\004\012\023\023\112\141\160\141\156\145
\163\145\040\107\157\166\145\162\156\155\145\156\164\061\026\060
\024\006\003\125\004\013\023\015\101\160\160\154\151\143\141\164
\151\157\156\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL

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\002\001\061
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "AdminCA-CD-T01"
# Issuer: CN=AdminCA-CD-T01,OU=Certification Authorities,OU=Services,O=admin,C=CH
# Serial Number: 1 (0x1)
# Subject: CN=AdminCA-CD-T01,OU=Certification Authorities,OU=Services,O=admin,C=CH
# Not Valid Before: Wed Jan
 25 13:36:19 2006
# Not Valid After: Mon Jan 25 12:36:19 2016
# Fingerprint (MD5): 5b:9e:fd:3b:60:35:ea:68:8e:52:fe:13:19:14:4a:a3
# Fingerprint (SHA1): 6b:81:44:6a:5c:dd:f4:74:a0:f8:00:ff:be:69:fd:0d:b6:28:75:16
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AdminCA-CD-T01"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\155\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\016\060\014\006\003\125\004\012\023\005\141\144\155\151\156\061
\021\060\017\006\003\125\004\013\023\010\123\145\162\166\151\143
\145\163\061\042\060\040\006\003\125\004\013\023\031\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\151\145\163\061\027\060\025\006\003\125\004\003\023
\016\101\144\155\151\156\103\101\055\103\104\055\124\060\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\155\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\016\060\014\006\003\125\004\012\023\005\141\144\155\151\156\061
\021\060\017\006\003\125\004\013\023\010\123\145\162\166\151\143
\145\163\061\042\060\040\006\003\125\004\013\023\031\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\151\145\163\061\027\060\025\006\003\125\004\003\023
\016\101\144\155\151\156\103\101\055\103\104\055\124\060\061
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\115\060\202\003\065\240\003\002\001\002\002\001\001
```

\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\155\061\013\060\011\006\003\125\004\006\023\002\103\110\061\016
\060\014\006\003\125\004\012\023\005\141\144\155\151\156\061\021
\060\017\006\003\125\004\013\023\010\123\145\162\166\151\143\145
\163\061\042\060\040\006\003\125\004\013\023\031\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\151\145\163\061\027\060\025\006\003\125\004\003\023\016
\101\144\155\151\156\103\101\055\103\104\055\124\060\061\060\036
\027\015\060\066\060\061\062\065\061\063\063\066\061\071\132\027
\015\061\066\060\061\062\065\061\062\063\066\061\071\132\060\155
\061\013\060\011\006\003\125\004\006\023\002\103\110\061\016\060
\014\006\003\125\004\012\023\005\141\144\155\151\156\061\021\060
\017\006\003\125\004\013\023\010\123\145\162\166\151\143\145\163
\061\042\060\040\006\003\125\004\013\023\031\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\151\145\163\061\027\060\025\006\003\125\004\003\023\016\101
\144\155\151\156\103\101\055\103\104\055\124\060\061\060\202\001
\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000
\003\202\001\017\000\060\202\001\012\002\202\001\001\000\322\064
\045\061\231\251\054\070\125\370\143\121\365\060\050\110\331\136
\046\004\001\343\020\027\044\102\320\177\237\362\110\307\350\024
\016\014\232\062\252\141\164\044\007\243\006\076\344\012\301\037
\127\105\024\217\177\255\157\251\277\030\076\307\143\106\150\051
\157\041\301\161\107\171\267\103\174\105\176\260\105\225\047\074
\305\276\154\040\250\331\132\200\123\205\305\156\171\134\332\001
\312\151\251\264\301\324\355\154\024\327\022\113\364\211\342\007
\177\020\237\027\025\352\112\304\253\353\102\044\027\375\277\305
\272\300\201\137\320\017\234\207\223\242\036\361\367\200\125\154
\042\345\113\132\026\253\156\340\270\205\022\035\220\063\054\154
\073\054\365\071\313\312\316\103\066\203\316\367\267\050\204\356
\074\314\201\223\376\133\015\355\211\271\066\027\337\236\351\227
\242\007\176\323\054\351\225\266\370\051\232\274\054\341\370\210
\254\123\127\021\204\226\005\132\324\115\271\374\325\116\073\311
\154\316\201\376\137\020\163\364\355\264\125\345\003\202\314\051
\275\366\243\142\232\306\313\350\041\273\235\076\374\011\002\003
\001\000\001\243\201\367\060\201\364\060\022\006\003\125\035\023
\001\001\377\004\010\060\006\001\001\377\002\001\000\060\201\256
\006\003\125\035\040\004\201\246\060\201\243\060\201\240\006\010
\140\205\164\001\021\003\025\001\060\201\223\060\110\006\010\053
\006\001\005\005\007\002\002\060\074\032\072\124\150\151\163\040
\151\163\040\164\150\145\040\101\144\155\151\156\103\101\055\103
\104\055\124\060\061\040\103\145\162\164\151\146\151\143\141\164
\145\040\120\162\141\143\164\151\143\145\040\123\164\141\164\145
\155\145\156\164\056\060\107\006\010\053\006\001\005\005\007\002
\001\026\073\150\164\164\160\072\057\057\167\167\167\056\160\153
\151\056\141\144\155\151\156\056\143\150\057\160\157\154\151\143
\171\057\103\120\123\137\062\137\061\066\137\067\065\066\137\061
\137\061\067\137\063\137\062\061\137\061\056\160\144\146\060\016

\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060\035
\006\003\125\035\016\004\026\004\024\052\304\151\012\241\306\125
\306\003\156\160\316\206\201\263\244\017\252\031\333\060\015\006
\011\052\206\110\206\367\015\001\001\005\005\000\003\202\001\001
\000\237\176\172\155\273\254\214\216\140\224\145\321\103\120\321
\277\155\152\101\375\022\342\315\306\037\046\146\355\312\235\072
\101\145\170\316\364\002\260\123\372\103\217\344\331\273\256\124
\200\027\045\140\022\111\201\164\350\073\263\333\145\134\051\124
\311\346\105\236\236\224\021\204\124\162\050\317\067\300\365\125
\243\121\053\243\310\120\346\351\014\024\023\320\057\244\001\374
\106\367\076\057\333\324\364\113\024\370\262\000\035\013\374\120
\027\053\371\360\132\175\154\371\373\243\013\212\300\247\062\010
\175\127\113\050\277\006\236\027\024\102\345\054\346\242\200\026
\116\377\017\235\074\034\370\025\302\122\165\230\324\370\026\211
\320\115\347\050\010\307\225\050\116\346\213\201\111\231\332\047
\075\351\372\171\060\331\154\250\337\253\072\033\020\212\321\166
\344\110\376\071\212\170\210\033\201\146\303\006\144\242\166\005
\312\224\047\264\166\361\332\202\373\265\104\020\143\103\303\243
\306\306\004\307\017\313\361\266\217\347\134\212\246\121\226\311
\337\200\314\265\321\040\263\103\323\024\307\335\261\120\155\225
\172
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "AdminCA-CD-T01"
Issuer: CN=AdminCA-CD-T01,OU=Certification Authorities,OU=Services,O=admin,C=CH
Serial Number: 1 (0x1)
Subject: CN=AdminCA-CD-T01,OU=Certification Authorities,OU=Services,O=admin,C=CH
Not Valid Before: Wed Jan 25 13:36:19 2006
Not Valid After: Mon Jan 25 12:36:19 2016
Fingerprint (MD5): 5b:9e:fd:3b:60:35:ea:68:8e:52:fe:13:19:14:4a:a3
Fingerprint (SHA1): 6b:81:44:6a:5c:dd:f4:74:a0:f8:00:ff:be:69:fd:0d:b6:28:75:16
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AdminCA-CD-T01"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\153\201\104\152\134\335\364\164\240\370\000\377\276\151\375\015
\266\050\165\026
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\133\236\375\073\140\065\352\150\216\122\376\023\031\024\112\243
END

```
CKA_ISSUER
 MULTILINE_OCTAL
\060\155\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\016\060\014\006\003\125\004\012\023\005\141\144\155\151\156\061
\021\060\017\006\003\125\004\013\023\010\123\145\162\166\151\143
\145\163\061\042\060\040\006\003\125\004\013\023\031\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\151\145\163\061\027\060\025\006\003\125\004\003\023
\016\101\144\155\151\156\103\101\055\103\104\055\124\060\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Admin-Root-CA"
# Issuer: CN=Admin-Root-CA,OU=Certification Authorities,OU=Services,O=admin,C=ch
# Serial Number:3b:f3:81:d0
# Subject: CN=Admin-Root-CA,OU=Certification Authorities,OU=Services,O=admin,C=ch
#
 Not Valid Before: Thu Nov 15 08:51:07 2001
# Not Valid After: Wed Nov 10 07:51:07 2021
# Fingerprint (MD5): f3:7e:3a:13:dc:74:63:06:74:1a:3c:38:32:8c:fb:a9
# Fingerprint (SHA1): 25:3f:77:5b:0e:77:97:ab:64:5f:15:91:55:97:c3:9e:26:36:31:d1
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Admin-Root-CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\154\061\013\060\011\006\003\125\004\006\023\002\143\150\061
\016\060\014\006\003\125\004\012\023\005\141\144\155\151\156\061
\021\060\017\006\003\125\004\013\023\010\123\145\162\166\151\143
\145\163\061\042\060\040\006\003\125\004\013\023\031\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\151\145\163\061\026\060\024\006\003\125\004\003\023
\015\101\144\155\151\156\055\122\157\157\164\055\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\154\061\013\060\011\006\003\125\004\006\023\002\143\150\061
\016\060\014\006\003\125\004\012\023\005\141\144\155\151\156\061
\021\060\017\006\003\125\004\013\023\010\123\145\162\166\151\143
```

\145\163\061\042\060\040\006\003\125\004\013\023\031\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\151\145\163\061\026\060\024\006\003\125\004\003\023
\015\101\144\155\151\156\055\122\157\157\164\055\103\101
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\004\073\363\201\320
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\125\060\202\004\075\240\003\002\001\002\002\004\073
\363\201\320\060\015\006\011\052\206\110\206\367\015\001\001\005
\005\000\060\154\061\013\060\011\006\003\125\004\006\023\002\143
\150\061\016\060\014\006\003\125\004\012\023\005\141\144\155\151
\156\061\021\060\017\006\003\125\004\013\023\010\123\145\162\166
\151\143\145\163\061\042\060\040\006\003\125\004\013\023\031\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164
\150\157\162\151\164\151\145\163\061\026\060\024\006\003\125\004
\003\023\015\101\144\155\151\156\055\122\157\157\164\055\103\101
\060\036\027\015\060\061\061\061\061\065\060\070\065\061\060\067
\132\027\015\062\061\061\061\061\060\060\067\065\061\060\067\132
\060\154\061\013\060\011\006\003\125\004\006\023\002\143\150\061
\016\060\014\006\003\125\004\012\023\005\141\144\155\151\156\061
\021\060\017\006\003\125\004\013\023\010\123\145\162\166\151\143
\145\163\061\042\060\040\006\003\125\004\013\023\031\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\151\145\163\061\026\060\024\006\003\125\004\003\023
\015\101\144\155\151\156\055\122\157\157\164\055\103\101\060\202
\001\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005
\000\003\202\001\017\000\060\202\001\012\002\202\001\001\000\313
\340\257\104\024\042\376\152\027\111\362\135\235\317\134\002\142
\013\200\271\132\277\250\125\063\173\243\022\044\136\114\157\073
\101\211\116\203\075\237\263\225\046\064\246\314\022\364\314\235
\207\136\075\014\015\027\057\205\046\076\052\046\131\163\241\250
\274\073\353\345\106\270\363\131\173\040\261\136\100\001\155\272
\147\263\153\353\357\305\342\371\065\335\014\152\006\266\232\050
\232\160\263\100\051\166\300\161\106\021\153\103\257\345\126\101
\373\346\034\071\203\115\267\366\242\261\146\311\250\015\262\360
\167\276\066\301\040\047\062\271\314\327\132\312\366\027\101\066
\115\373\273\125\201\143\234\223\136\203\153\177\270\025\167\162
\174\175\115\011\153\131\225\346\355\060\253\104\106\331\025\001
\245\133\211\145\266\340\050\331\050\010\225\176\010\043\262\042
\350\337\045\114\074\150\367\156\347\113\307\220\375\204\101\046
\276\134\203\072\327\043\171\267\032\370\007\031\202\132\151\130
\305\377\210\162\053\307\276\370\323\055\063\167\247\026\022\250
\213\041\306\102\256\172\144\257\362\263\300\355\167\344\151\002
\003\001\000\001\243\202\001\375\060\202\001\371\060\017\006\003
\125\035\023\001\001\377\004\005\060\003\001\001\377\060\201\231

\006\003\125\035\040\004\201\221\060\201\216\060\201\213\006\010
\140\205\164\001\021\003\001\000\060\177\060\053\006\010\053\006
\001\005\005\007\002\002\060\037\032\035\124\150\151\163\040\151
\163\040\164\150\145\040\101\144\155\151\156\055\122\157\157\164
\055\103\101\040\103\120\123\060\120\006\010\053\006\001\005\005
\007\002\001\026\104\150\164\164\160\072\057\057\167\167\167\056
\151\156\146\157\162\155\141\164\151\153\056\141\144\155\151\156
\056\143\150\057\120\113\111\057\154\151\156\153\163\057\103\120
\123\137\062\137\061\066\137\067\065\066\137\061\137\061\067\137
\063\137\061\137\060\056\160\144\146\060\177\006\003\125\035\037
\004\170\060\166\060\164\240\162\240\160\244\156\060\154\061\026
\060\024\006\003\125\004\003\023\015\101\144\155\151\156\055\122
\157\157\164\055\103\101\061\042\060\040\006\003\125\004\013\023
\031\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\151\145\163\061\021\060\017\006\003
\125\004\013\023\010\123\145\162\166\151\143\145\163\061\016\060
\014\006\003\125\004\012\023\005\141\144\155\151\156\061\013\060
\011\006\003\125\004\006\023\002\143\150\060\035\006\003\125\035
\016\004\026\004\024\202\237\372\043\163\040\361\227\213\262\114
\115\276\102\305\177\146\315\144\350\060\201\231\006\003\125\035
\043\004\201\221\060\201\216\200\024\202\237\372\043\163\040\361
\227\213\262\114\115\276\102\305\177\146\315\144\350\241\160\244
\156\060\154\061\013\060\011\006\003\125\004\006\023\002\143\150
\061\016\060\014\006\003\125\004\012\023\005\141\144\155\151\156
\061\021\060\017\006\003\125\004\013\023\010\123\145\162\166\151
\143\145\163\061\042\060\040\006\003\125\004\013\023\031\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\151\145\163\061\026\060\024\006\003\125\004\003
\023\015\101\144\155\151\156\055\122\157\157\164\055\103\101\202
\004\073\363\201\320\060\016\006\003\125\035\017\001\001\377\004
\004\003\002\001\006\060\015\006\011\052\206\110\206\367\015\001
\001\005\005\000\003\202\001\001\000\170\117\172\134\046\021\247
\056\256\232\103\312\134\065\202\106\176\310\066\217\172\146\265
\251\062\010\034\014\344\156\241\361\310\301\324\344\200\347\214
\275\143\261\014\337\362\271\076\302\013\161\100\151\106\243\154
\364\133\017\015\041\104\307\052\053\075\032\013\300\240\301\314
\210\312\034\077\254\122\266\366\147\315\114\155\304\276\043\375
\101\053\004\156\167\245\026\170\351\233\134\043\317\201\032\006
\041\143\152\334\051\121\262\072\371\233\367\135\261\055\365\004
\027\006\177\234\350\067\205\055\356\061\274\056\001\370\304\353
\153\216\064\305\071\071\366\224\230\273\037\016\036\021\057\250
\214\007\012\110\242\214\152\231\205\064\267\052\141\205\170\032
\051\151\037\235\045\120\121\004\312\027\303\071\070\007\161\347
\321\230\233\325\321\030\025\226\274\342\363\311\147\053\361\011
\262\316\234\364\103\046\001\372\127\153\220\251\261\276\350\065
\325\151\377\360\071\025\116\274\137\360\317\073\364\276\043\077
\105\146\304\264\226\135\276\217\015\336\307\155\011\102\363\211
\371\361\077\365\164\117\337\270\145

```
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Trust for "Admin-Root-CA"
# Issuer: CN=Admin-Root-CA,OU=Certification Authorities,OU=Services,O=admin,C=ch
# Serial Number:3b:f3:81:d0
# Subject: CN=Admin-Root-CA,OU=Certification Authorities,OU=Services,O=admin,C=ch
# Not Valid Before: Thu Nov 15 08:51:07 2001
# Not Valid After: Wed Nov 10 07:51:07 2021
# Fingerprint (MD5): f3:7e:3a:13:dc:74:63:06:74:1a:3c:38:32:8c:fb:a9
# Fingerprint (SHA1): 25:3f:77:5b:0e:77:97:ab:64:5f:15:91:55:97:c3:9e:26:36:31:d1
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Admin-Root-CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\045\077\167\133\016\167\227\253\144\137\025\221\125\227\303\236
\046\066\061\321
END
CKA_CERT_MD5_HASH
 MULTILINE_OCTAL
\363\176\072\023\334\164\143\006\164\032\074\070\062\214\373\251
END
CKA_ISSUER MULTILINE_OCTAL
\060\154\061\013\060\011\006\003\125\004\006\023\002\143\150\061
\016\060\014\006\003\125\004\012\023\005\141\144\155\151\156\061
\021\060\017\006\003\125\004\013\023\010\123\145\162\166\151\143
\145\163\061\042\060\040\006\003\125\004\013\023\031\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\151\145\163\061\026\060\024\006\003\125\004\003\023
\015\101\144\155\151\156\055\122\157\157\164\055\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\073\363\201\320
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "TÜBTAK UEKAE Kök Sertifika Hizmet Salaycs
```

- Sürüm 3"
Issuer: CN=TÜBTAK UEKAE Kök Sertifika Hizmet Salaycs - Sürüm 3,OU=Kamu Sertifikasyon Merkezi,OU=Ulusal Elektronik ve Kriptoloji Aratrma Enstitüsü - UEKAE,O=Türkiye Bilimsel ve Teknolojik Aratrma Kurumu - TÜBTAK,L=Gebze - Kocaeli,C=TR
Serial Number: 17 (0x11)
Subject: CN=TÜBTAK UEKAE Kök Sertifika Hizmet Salaycs - Sürüm 3,OU=Kamu Sertifikasyon Merkezi,OU=Ulusal Elektronik ve Kriptoloji Aratrma Enstitüsü - UEKAE,O=Türkiye Bilimsel ve Teknolojik Aratrma Kurumu - TÜBTAK,L=Gebze - Kocaeli,C=TR
Not Valid Before: Fri Aug 24 11:37:07 2007
Not Valid After: Mon Aug 21 11:37:07 2017
Fingerprint (MD5): ed:41:f5:8c:50:c5:2b:9c:73:e6:ee:6c:eb:c2:a8:26
Fingerprint (SHA1): 1b:4b:39:61:26:27:6b:64:91:a2:68:6d:d7:02:43:21:2d:1f:1d:96
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TÜBTAK UEKAE Kök Sertifika Hizmet Salaycs - Sürüm 3"
CKA_CERTIFICATE_TYPE
CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\202\001\053\061\013\060\011\006\003\125\004\006\023\002\124
\122\061\030\060\026\006\003\125\004\007\014\017\107\145\142\172
\145\040\055\040\113\157\143\141\145\154\151\061\107\060\105\006
\003\125\004\012\014\076\124\303\274\162\153\151\171\145\040\102
\151\154\151\155\163\145\154\040\166\145\040\124\145\153\156\157
\154\157\152\151\153\040\101\162\141\305\237\164\304\261\162\155
\141\040\113\165\162\165\155\165\040\055\040\124\303\234\102\304
\260\124\101\113\061\110\060\106\006\003\125\004\013\014\077\125
\154\165\163\141\154\040\105\154\145\153\164\162\157\156\151\153
\040\166\145\040\113\162\151\160\164\157\154\157\152\151\040\101
\162\141\305\237\164\304\261\162\155\141\040\105\156\163\164\151
\164\303\274\163\303\274\040\055\040\125\105\113\101\105\061\043
\060\041\006\003\125\004\013\014\032\113\141\155\165\040\123\145
\162\164\151\146\151\153\141\163\171\157\156\040\115\145\162\153
\145\172\151\061\112\060\110\006\003\125\004\003\014\101\124\303
\234\102\304\260\124\101\113\040\125\105\113\101\105\040\113\303
\266\153\040\123\145\162\164\151\146\151\153\141\040\110\151\172
\155\145\164\040\123\141\304\237\154\141\171\304\261\143\304\261
\163\304\261\040\055\040\123\303\274\162\303\274\155\040\063
END
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\202\001\053\061\013\060\011\006\003\125\004\006\023\002\124
\122\061\030\060\026\006\003\125\004\007\014\017\107\145\142\172
\145\040\055\040\113\157\143\141\145\154\151\061\107\060\105\006
\003\125\004\012\014\076\124\303\274\162\153\151\171\145\040\102
\151\154\151\155\163\145\154\040\166\145\040\124\145\153\156\157

\154\157\152\151\153\040\101\162\141\305\237\164\304\261\162\155
\141\040\113\165\162\165\155\165\040\055\040\124\303\234\102\304
\260\124\101\113\061\110\060\106\006\003\125\004\013\014\077\125
\154\165\163\141\154\040\105\154\145\153\164\162\157\156\151\153
\040\166\145\040\113\162\151\160\164\157\154\157\152\151\040\101
\162\141\305\237\164\304\261\162\155\141\040\105\156\163\164\151
\164\303\274\163\303\274\040\055\040\125\105\113\101\105\061\043
\060\041\006\003\125\004\013\014\032\113\141\155\165\040\123\145
\162\164\151\146\151\153\141\163\171\157\156\040\115\145\162\153
\145\172\151\061\112\060\110\006\003\125\004\003\014\101\124\303
\234\102\304\260\124\101\113\040\125\105\113\101\105\040\113\303
\266\153\040\123\145\162\164\151\146\151\153\141\040\110\151\172
\155\145\164\040\123\141\304\237\154\141\171\304\261\143\304\261
\163\304\261\040\055\040\123\303\274\162\303\274\155\040\063
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\001\021
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\027\060\202\003\377\240\003\002\001\002\002\001\021
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\202\001\053\061\013\060\011\006\003\125\004\006\023\002\124\122
\061\030\060\026\006\003\125\004\007\014\017\107\145\142\172\145
\040\055\040\113\157\143\141\145\154\151\061\107\060\105\006\003
\125\004\012\014\076\124\303\274\162\153\151\171\145\040\102\151
\154\151\155\163\145\154\040\166\145\040\124\145\153\156\157\154
\157\152\151\153\040\101\162\141\305\237\164\304\261\162\155\141
\040\113\165\162\165\155\165\040\055\040\124\303\234\102\304\260
\124\101\113\061\110\060\106\006\003\125\004\013\014\077\125\154
\165\163\141\154\040\105\154\145\153\164\162\157\156\151\153\040
\166\145\040\113\162\151\160\164\157\154\157\152\151\040\101\162
\141\305\237\164\304\261\162\155\141\040\105\156\163\164\151\164
\303\274\163\303\274\040\055\040\125\105\113\101\105\061\043\060
\041\006\003\125\004\013\014\032\113\141\155\165\040\123\145\162
\164\151\146\151\153\141\163\171\157\156\040\115\145\162\153\145
\172\151\061\112\060\110\006\003\125\004\003\014\101\124\303\234
\102\304\260\124\101\113\040\125\105\113\101\105\040\113\303\266
\153\040\123\145\162\164\151\146\151\153\141\040\110\151\172\155
\145\164\040\123\141\304\237\154\141\171\304\261\143\304\261\163
\304\261\040\055\040\123\303\274\162\303\274\155\040\063\060\036
\027\015\060\067\060\070\062\064\061\061\063\067\060\067\132\027
\015\061\067\060\070\062\061\061\061\063\067\060\067\132\060\202
\001\053\061\013\060\011\006\003\125\004\006\023\002\124\122\061
\030\060\026\006\003\125\004\007\014\017\107\145\142\172\145\040
\055\040\113\157\143\141\145\154\151\061\107\060\105\006\003\125
\004\012\014\076\124\303\274\162\153\151\171\145\040\102\151\154
\151\155\163\145\154\040\166\145\040\124\145\153\156\157\154\157

\152\151\153\040\101\162\141\305\237\164\304\261\162\155\141\040
\113\165\162\165\155\165\040\055\040\124\303\234\102\304\260\124
\101\113\061\110\060\106\006\003\125\004\013\014\077\125\154\165
\163\141\154\040\105\154\145\153\164\162\157\156\151\153\040\166
\145\040\113\162\151\160\164\157\154\157\152\151\040\101\162\141
\305\237\164\304\261\162\155\141\040\105\156\163\164\151\164\303
\274\163\303\274\040\055\040\125\105\113\101\105\061\043\060\041
\006\003\125\004\013\014\032\113\141\155\165\040\123\145\162\164
\151\146\151\153\141\163\171\157\156\040\115\145\162\153\145\172
\151\061\112\060\110\006\003\125\004\003\014\101\124\303\234\102
\304\260\124\101\113\040\125\105\113\101\105\040\113\303\266\153
\040\123\145\162\164\151\146\151\153\141\040\110\151\172\155\145
\164\040\123\141\304\237\154\141\171\304\261\143\304\261\163\304
\261\040\055\040\123\303\274\162\303\274\155\040\063\060\202\001
\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000
\003\202\001\017\000\060\202\001\012\002\202\001\001\000\212\155
\113\377\020\210\072\303\366\176\224\350\352\040\144\160\256\041
\201\276\072\173\074\333\361\035\122\177\131\372\363\042\114\225
\240\220\274\110\116\021\253\373\267\265\215\172\203\050\214\046
\106\330\116\225\100\207\141\237\305\236\155\201\207\127\154\212
\073\264\146\352\314\100\374\343\252\154\262\313\001\333\062\277
\322\353\205\317\241\015\125\303\133\070\127\160\270\165\306\171
\321\024\060\355\033\130\133\153\357\065\362\241\041\116\305\316
\174\231\137\154\271\270\042\223\120\247\315\114\160\152\276\152
\005\177\023\234\053\036\352\376\107\316\004\245\157\254\223\056
\174\053\237\236\171\023\221\350\352\236\312\070\165\216\142\260
\225\223\052\345\337\351\136\227\156\040\137\137\204\172\104\071
\031\100\034\272\125\053\373\060\262\201\357\204\343\334\354\230
\070\071\003\205\010\251\124\003\005\051\360\311\217\213\352\013
\206\145\031\021\323\351\011\043\336\150\223\003\311\066\034\041
\156\316\214\146\361\231\060\330\327\263\303\035\370\201\056\250
\275\202\013\146\376\202\313\341\340\032\202\303\100\201\002\003
\001\000\001\243\102\060\100\060\035\006\003\125\035\016\004\026
\004\024\275\210\207\311\217\366\244\012\013\252\353\305\376\221
\043\235\253\112\212\062\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\006\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\001\001\377\060\015\006\011\052\206\110\206\367
\015\001\001\005\005\000\003\202\001\001\000\035\174\372\111\217
\064\351\267\046\222\026\232\005\164\347\113\320\155\071\154\303
\046\366\316\270\061\274\304\337\274\052\370\067\221\030\334\004
\310\144\231\053\030\155\200\003\131\311\256\370\130\320\076\355
\303\043\237\151\074\206\070\034\236\357\332\047\170\321\204\067
\161\212\074\113\071\317\176\105\006\326\055\330\212\115\170\022
\326\255\302\323\313\322\320\101\363\046\066\112\233\225\154\014
\356\345\321\103\047\146\301\210\367\172\263\040\154\352\260\151
\053\307\040\350\014\003\304\101\005\231\342\077\344\153\370\240
\206\201\307\204\306\037\325\113\201\022\262\026\041\054\023\241
\200\262\136\014\112\023\236\040\330\142\100\253\220\352\144\112

\057\254\015\001\022\171\105\250\057\207\031\150\310\342\205\307
\060\262\165\371\070\077\262\300\223\264\153\342\003\104\316\147
\240\337\211\326\255\214\166\243\023\303\224\141\053\153\331\154
\301\007\012\042\007\205\154\205\044\106\251\276\077\213\170\204
\202\176\044\014\235\375\201\067\343\045\250\355\066\116\225\054
\311\234\220\332\354\251\102\074\255\266\002
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER
CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "TÜBTAK UEKAE Kök Sertifika Hizmet Salaycs - Sürüm 3"
Issuer: CN=TÜBTAK UEKAE Kök Sertifika Hizmet Salaycs - Sürüm 3,OU=Kamu Sertifikasyon Merkezi,OU=Ulusal Elektronik ve Kriptoloji Aratrma Enstitüsü - UEKAE,O=Türkiye Bilimsel ve Teknolojik Aratrma Kurumu - TÜBTAK,L=Gebze - Kocaeli,C=TR
Serial Number: 17 (0x11)
Subject: CN=TÜBTAK UEKAE Kök Sertifika Hizmet Salaycs - Sürüm 3,OU=Kamu Sertifikasyon Merkezi,OU=Ulusal Elektronik ve Kriptoloji Aratrma Enstitüsü - UEKAE,O=Türkiye Bilimsel ve Teknolojik Aratrma Kurumu - TÜBTAK,L=Gebze - Kocaeli,C=TR
Not Valid Before: Fri Aug 24 11:37:07 2007
Not Valid After: Mon Aug 21 11:37:07 2017
Fingerprint (MD5): ed:41:f5:8c:50:c5:2b:9c:73:e6:ee:6c:eb:c2:a8:26
Fingerprint (SHA1): 1b:4b:39:61:26:27:6b:64:91:a2:68:6d:d7:02:43:21:2d:1f:1d:96

CKA_CLASS CK_OBJECT_CLASS
CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TÜBTAK UEKAE Kök Sertifika Hizmet Salaycs - Sürüm 3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\033\113\071\141\046\047\153\144\221\242\150\155\327\002\103\041
\055\037\035\226
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\355\101\365\214\120\305\053\234\163\346\356\154\353\302\250\046
END
CKA_ISSUER MULTILINE_OCTAL
\060\202\001\053\061\013\060\011\006\003\125\004\006\023\002\124
\122\061\030\060\026\006\003\125\004\007\014\017\107\145\142\172
\145\040\055\040\113\157\143\141\145\154\151\061\107\060\105\006
\003\125\004\012\014\076\124\303\274\162\153\151\171\145\040\102
\151\154\151\155\163\145\154\040\166\145\040\124\145\153\156\157
\154\157\152\151\153\040\101\162\141\305\237\164\304\261\162\155
\141\040\113\165\162\165\155\165\040\055\040\124\303\234\102\304
\260\124\101\113\061\110\060\106\006\003\125\004\013\014\077\125

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\154\165\163\141\154\040\105\154\145\153\164\162\157\156\151\153
\040\166\145\040\113\162\151\160\164\157\154\157\152\151\040\101
\162\141\305\237\164\304\261\162\155\141\040\105\156\163\164\151
\164\303\274\163\303\274\040\055\040\125\105\113\101\105\061\043
\060\041\006\003\125\004\013\014\032\113\141\155\165\040\123\145
\162\164\151\146\151\153\141\163\171\157\156\040\115\145\162\153
\145\172\151\061\112\060\110\006\003\125\004\003\014\101\124\303
\234\102\304\260\124\101\113\040\125\105\113\101\105\040\113\303
\266\153\040\123\145\162\164\151\146\151\153\141\040\110\151\172
\155\145\164\040\123\141\304\237\154\141\171\304\261\143\304\261
\163\304\261\040\055\040\123\303\274\162\303\274\155\040\063
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\001\021
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Halcom
 CA FO"
# Issuer: CN=Halcom CA FO,O=Halcom,C=SI
# Serial Number: 113253 (0x1ba65)
# Subject: CN=Halcom CA FO,O=Halcom,C=SI
# Not Valid Before: Sun Jun 05 10:33:31 2005
# Not Valid After: Fri Jun 05 10:33:31 2020
# Fingerprint (MD5): 0b:09:2c:1c:d7:21:86:6f:94:37:6f:e6:a7:f3:22:4d
# Fingerprint (SHA1): 04:09:56:5b:77:da:58:2e:64:95:ac:00:60:a7:23:54:e6:4b:01:92
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Halcom CA FO"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\065\061\013\060\011\006\003\125\004\006\023\002\123\111\061
\017\060\015\006\003\125\004\012\023\006\110\141\154\143\157\155
\061\025\060\023\006\003\125\004\003\023\014\110\141\154\143\157
\155\040\103\101\040\106\117
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\065\061\013\060\011\006\003\125\004\006\023\002\123\111\061
\017\060\015\006\003\125\004\012\023\006\110\141\154\143\157\155
\061\025\060\023\006\003\125\004\003\023\014\110\141\154\143\157
```

\155\040\103\101\040\106\117
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\003\001\272\145
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\032\060\202\002\002\240\003\002\001\002\002\003\001
\272\145\060\015\006\011\052\206\110\206\367\015\001\001\005\005
\000\060\065\061\013\060\011\006\003\125\004\006\023\002\123\111
\061\017\060\015\006\003\125\004\012\023\006\110\141\154\143\157
\155\061\025\060\023\006\003\125\004\003\023\014\110\141\154\143
\157\155\040\103\101\040\106\117\060\036\027\015\060\065\060\066
\060\065\061\060\063\063\063\061\132\027\015\062\060\060\066\060
\065\061\060\063\063\063\061\132\060\065\061\013\060\011\006\003
\125\004\006\023\002\123\111\061\017\060\015\006\003\125\004\012
\023\006\110\141\154\143\157\155\061\025\060\023\006\003\125\004
\003\023\014\110\141\154\143\157\155\040\103\101\040\106\117\060
\202\001\042\060\015\006\011\052\206\110\206\367\015\001\001\001
\005\000\003\202\001\017\000\060\202\001\012\002\202\001\001\000
\274\243\046\001\226\345\235\254\032\002\002\071\174\254\334\006
\114\067\112\256\007\110\165\350\047\034\244\061\375\012\247\043
\135\174\077\016\372\360\214\221\157\125\064\204\003\164\314\003
\065\170\315\161\301\107\033\273\352\041\156\270\007\336\041\222
\252\254\271\336\067\242\037\364\232\034\033\310\356\020\203\326
\123\103\310\335\351\363\220\106\071\162\012\116\374\022\051\111
\201\130\046\072\161\023\014\173\123\217\337\146\162\074\027\334
\336\341\171\112\237\351\140\076\155\065\344\115\121\321\034\300
\032\060\134\006\077\163\103\310\315\066\364\036\302\207\214\117
\110\237\332\165\127\052\114\257\215\124\074\104\137\230\074\120
\332\320\030\006\174\140\156\322\204\377\147\205\220\075\136\306
\353\330\172\243\265\155\014\276\165\270\251\332\126\161\066\132
\356\353\111\123\076\342\031\166\174\102\253\241\220\361\367\057
\270\272\112\101\264\053\244\056\141\066\347\326\332\177\365\237
\215\270\113\133\204\065\120\305\275\005\252\252\302\014\164\101
\143\127\031\216\377\341\106\346\173\005\044\376\231\335\061\275
\002\003\001\000\001\243\063\060\061\060\017\006\003\125\035\023
\001\001\377\004\005\060\003\001\001\377\060\021\006\003\125\035
\016\004\012\004\010\110\040\034\142\015\130\122\045\060\013\006
\003\125\035\017\004\004\003\002\001\006\060\015\006\011\052\206
\110\206\367\015\001\001\005\005\000\003\202\001\001\000\133\165
\365\346\060\106\130\212\367\017\321\117\013\001\130\004\271\144
\344\060\015\076\166\331\153\023\255\034\156\311\114\360\154\346
\102\021\375\353\203\357\120\330\273\124\235\264\221\212\132\265
\204\017\214\106\315\074\202\250\245\036\040\234\320\365\101\006
\312\001\053\230\260\352\051\120\037\342\164\173\131\202\312\012
\345\156\116\256\260\067\355\076\314\272\062\331\077\013\150\054
\262\323\074\334\070\305\021\326\033\063\356\271\242\152\104\223

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\033\120\352\141\033\171\127\121\126\236\062\320\063\170\264\317
\107\052\373\367\315\361\347\155\340\272\144\373\025\233\276\312
\261\362\107\001\177\340\114\267\245\101\254\036\331\032\154\221
\341\320\250\112\303\136\170\053\172\200\300\117\315\045\137\120
\047\306\274\130\165\234\035\265\232\135\225\163\363\204\146\323
\315\155\035\315\340\132\316\040\070\357\222\163\170\136\002\326
\215\371\164\324\267\211\330\214\373\173\325\213\161\325\031\027
\046\330\044\111\074\125\274\202\207\332\143\273\071\327\216\221
\317\064\160\134\163\117\320\120\107\132\373\345\132\121
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Trust for "Halcom CA FO"
# Issuer: CN=Halcom CA FO,O=Halcom,C=SI
# Serial Number: 113253 (0x1ba65)
# Subject: CN=Halcom CA FO,O=Halcom,C=SI
# Not Valid Before: Sun Jun 05 10:33:31 2005
# Not Valid After: Fri Jun 05 10:33:31 2020
# Fingerprint (MD5): 0b:09:2c:1c:d7:21:86:6f:94:37:6f:e6:a7:f3:22:4d
# Fingerprint (SHA1): 04:09:56:5b:77:da:58:2e:64:95:ac:00:60:a7:23:54:e6:4b:01:92
CKA_CLASS
 CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Halcom CA FO"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\004\011\126\133\167\332\130\056\144\225\254\000\140\247\043\124
\346\113\001\222
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\013\011\054\034\327\041\206\157\224\067\157\346\247\363\042\115
END
CKA_ISSUER MULTILINE_OCTAL
\060\065\061\013\060\011\006\003\125\004\006\023\002\123\111\061
\017\060\015\006\003\125\004\012\023\006\110\141\154\143\157\155
\061\025\060\023\006\003\125\004\003\023\014\110\141\154\143\157
\155\040\103\101\040\106\117
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\001\272\145
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
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CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Halcom CA PO 2"
# Issuer:
 CN=Halcom CA PO 2,O=Halcom,C=SI
# Serial Number: 79074 (0x134e2)
# Subject: CN=Halcom CA PO 2,O=Halcom,C=SI
# Not Valid Before: Sat Feb 07 18:33:31 2004
# Not Valid After: Thu Feb 07 18:33:31 2019
# Fingerprint (MD5): 1d:64:96:af:2d:82:1a:30:0b:a0:62:0d:76:bc:53:aa
# Fingerprint (SHA1): 7f:bb:6a:cd:7e:0a:b4:38:da:af:6f:d5:02:10:d0:07:c6:c0:82:9c
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Halcom CA PO 2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\067\061\013\060\011\006\003\125\004\006\023\002\123\111\061
\017\060\015\006\003\125\004\012\023\006\110\141\154\143\157\155
\061\027\060\025\006\003\125\004\003\023\016\110\141\154\143\157
\155\040\103\101\040\120\117\040\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\067\061\013\060\011\006\003\125\004\006\023\002\123\111\061
\017\060\015\006\003\125\004\012\023\006\110\141\154\143\157\155
\061\027\060\025\006\003\125\004\003\023\016\110\141\154\143\157
\155\040\103\101\040\120\117\040\062
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\003\001\064\342
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\031\060\202\001\202\240\003\002\001\002\002\003\001
\064\342\060\015\006\011\052\206\110\206\367\015\001\001\005\005
\000\060\067\061\013\060\011\006\003\125\004\006\023\002\123\111
\061\017\060\015\006\003\125\004\012\023\006\110\141\154\143\157
\155\061\027\060\025\006\003\125\004\003\023\016\110\141\154\143
\157\155\040\103\101\040\120\117\040\062\060\036\027\015\060\064
\060\062\060\067\061\070\063\063\063\061\132\027\015\061\071\060
\062\060\067\061\070\063\063\063\061\132\060\067\061\013\060\011
\006\003\125\004\006\023\002\123\111\061\017\060\015\006\003\125
\004\012\023\006\110\141\154\143\157\155\061\027\060\025\006\003
\125\004\003\023\016\110\141\154\143\157\155\040\103\101\040\120
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\117\040\062\060\201\237\060\015\006\011\052\206\110\206\367\015
\001\001\001\005\000\003\201\215\000\060\201\211\002\201\201\000
\224\027\362\111\067\060\062\011\010\074\276\365\067\267\164\154
\020\073\313\042\161\007\006\271\306\354\332\110\363\237\047\155
\144\215\125\336\171\107\120\373\150\316\171\001\276\247\033\366
\141\255\175\061\013\123\040\255\061\361\133\316\043\372\377\314
\022\002\132\000\234\374\315\153\022\122\350\254\324\063\073\163
\046\020\161\220\100\277\003\210\337\274\137\041\015\214\326\212
\223\037\347\256\025\124\306\114\344\231\141\222\340\367\215\162
\307\334\142\023\063\243\076\111\051\373\204\277\160\072\221\041
\002\003\001\000\001\243\063\060\061\060\017\006\003\125\035\023
\001\001\377\004\005\060\003\001\001\377\060\021\006\003\125\035
\016\004\012\004\010\110\257\127\146\277\322\300\002\060\013\006
\003\125\035\017\004\004\003\002\001\006\060\015\006\011\052\206
\110\206\367\015\001\001\005\005\000\003\201\201\000\220\026\127
\166\270\171\316\374\304\321\067\000\242\315\377\070\007\021\163
\023\005\111\355\337\301\305\316\306\100\330\367\002\226\015\267
\157\021\204\070\146\373\161\367\020\001\147\174\135\175\044\332
\366\144\073\010\200\110\246\116\275\104\342\260\007\062\217\174
\206\067\106\157\300\203\003\223\265\364\363\022\174\243\350\313
\342\072\043\170\372\150\157\376\130\312\014\247\127\121\055\142
\220\371\344\250\334\365\312\337\016\207\121\156\067\165\046\016
\327\176\170\212\003\242\225\031\266\136\221\001\126
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Halcom CA PO 2"
Issuer: CN=Halcom CA PO 2,O=Halcom,C=SI
Serial Number: 79074 (0x134e2)
Subject: CN=Halcom CA PO 2,O=Halcom,C=SI
Not Valid Before: Sat Feb 07 18:33:31 2004
Not Valid After: Thu Feb 07 18:33:31 2019
Fingerprint (MD5): 1d:64:96:af:2d:82:1a:30:0b:a0:62:0d:76:bc:53:aa
Fingerprint (SHA1): 7f:bb:6a:cd:7e:0a:b4:38:da:af:6f:d5:02:10:d0:07:c6:c0:82:9c
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN
 CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Halcom CA PO 2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\177\273\152\315\176\012\264\070\332\257\157\325\002\020\320\007
\306\300\202\234
END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\035\144\226\257\055\202\032\060\013\240\142\015\166\274\123\252
END
CKA_ISSUER MULTILINE_OCTAL
\060\067\061\013\060\011\006\003\125\004\006\023\002\123\111\061
\017\060\015\006\003\125\004\012\023\006\110\141\154\143\157\155
\061\027\060\025\006\003\125\004\003\023\016\110\141\154\143\157
\155\040\103\101\040\120\117\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\001\064\342
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "ACNLB"
# Issuer: O=ACNLB,C=SI
# Serial Number:3e:c3:86:8e
#
 Subject: O=ACNLB,C=SI
# Not Valid Before: Thu May 15 11:52:45 2003
# Not Valid After: Mon May 15 12:22:45 2023
# Fingerprint (MD5): ba:92:64:42:16:1f:cb:a1:16:48:1a:f6:40:5c:59:87
# Fingerprint (SHA1): 04:56:f2:3d:1e:9c:43:ae:cb:0d:80:7f:1c:06:47:55:1a:05:f4:56
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ACNLB"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\035\061\013\060\011\006\003\125\004\006\023\002\123\111\061
\016\060\014\006\003\125\004\012\023\005\101\103\116\114\102
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\035\061\013\060\011\006\003\125\004\006\023\002\123\111\061
\016\060\014\006\003\125\004\012\023\005\101\103\116\114\102
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\076\303\206\216
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\267\060\202\002\237\240\003\002\001\002\002\004\076
\303\206\216\060\015\006\011\052\206\110\206\367\015\001\001\005
```

\005\000\060\035\061\013\060\011\006\003\125\004\006\023\002\123
\111\061\016\060\014\006\003\125\004\012\023\005\101\103\116\114
\102\060\036\027\015\060\063\060\065\061\065\061\061\065\062\064
\065\132\027\015\062\063\060\065\061\065\061\062\062\062\064\065
\132\060\035\061\013\060\011\006\003\125\004\006\023\002\123\111
\061\016\060\014\006\003\125\004\012\023\005\101\103\116\114\102
\060\202\001\042\060\015\006\011\052\206\110\206\367\015\001\001
\001\005\000\003\202\001\017\000\060\202\001\012\002\202\001\001
\000\277\166\165\075\014\174\100\072\146\137\115\214\373\335\074
\056\376\175\224\144\355\112\324\111\110\241\356\221\161\262\171
\310\216\053\037\252\360\062\264\050\262\243\302\165\117\244\351
\246\032\366\242\146\141\043\047\141\054\156\027\220\013\372\336
\036\161\122\002\051\004\231\171\254\300\260\300\146\230\230\021
\067\144\020\317\234\274\073\102\034\051\134\125\220\366\172\042
\116\126\257\067\150\277\164\072\154\074\306\230\314\140\041\277
\342\010\047\344\331\053\274\343\204\225\327\324\044\140\374\176
\055\057\235\041\353\235\221\306\273\244\321\353\311\022\255\243
\350\310\265\177\125\113\353\231\002\124\304\201\034\014\256\071
\344\152\172\005\330\116\160\240\372\003\167\263\256\330\270\024
\222\373\101\167\023\065\152\267\242\312\210\113\255\055\121\274
\166\232\154\273\100\275\347\044\114\042\246\346\375\116\010\173
\235\013\020\326\022\322\246\306\241\144\062\364\001\163\226\201
\342\110\260\301\050\143\075\073\347\147\254\156\305\024\365\027
\023\242\234\037\053\127\360\025\047\165\135\335\261\064\326\223
\021\002\003\001\000\001\243\201\376\060\201\373\060\021\006\011
\140\206\110\001\206\370\102\001\001\004\004\003\002\000\007\060
\077\006\003\125\035\037\004\070\060\066\060\064\240\062\240\060
\244\056\060\054\061\013\060\011\006\003\125\004\006\023\002\123
\111\061\016\060\014\006\003\125\004\012\023\005\101\103\116\114
\102\061\015\060\013\006\003\125\004\003\023\004\103\122\114\061
\060\053\006\003\125\035\020\004\044\060\042\200\017\062\060\060
\063\060\065\061\065\061\061\065\062\064\065\132\201\017\062\060
\062\063\060\065\061\065\061\062\062\062\064\065\132\060\013\006
\003\125\035\017\004\004\003\002\001\006\060\037\006\003\125\035
\043\004\030\060\026\200\024\314\273\273\206\326\157\370\276\264
\107\042\167\263\266\255\327\001\131\226\115\060\035\006\003\125
\035\016\004\026\004\024\314\273\273\206\326\157\370\276\264\107
\042\167\263\266\255\327\001\131\226\115\060\014\006\003\125\035
\023\004\005\060\003\001\001\377\060\035\006\011\052\206\110\206
\366\175\007\101\000\004\020\060\016\033\010\126\066\056\060\072
\064\056\060\003\002\004\220\060\015\006\011\052\206\110\206\367
\015\001\001\005\005\000\003\202\001\001\000\021\147\313\313\232
\153\040\041\335\157\151\203\325\077\015\272\223\025\227\116\160
\166\046\134\350\236\044\347\067\376\074\120\364\324\371\052\057
\014\023\241\135\004\274\320\260\351\302\003\027\205\005\141\075
\300\247\252\166\114\303\270\072\203\251\206\317\003\371\167\016
\053\262\075\166\033\145\321\152\161\140\161\333\273\270\172\216
\362\371\041\203\370\127\114\250\307\335\145\306\356\357\157\263

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\266\231\273\264\303\320\253\137\262\240\176\335\164\041\054\303
\132\353\215\241\312\330\360\310\027\355\166\272\204\143\156\133
\271\265\312\155\327\374\064\071\200\057\272\117\337\215\330\374
\030\304\074\212\065\057\167\202\226\255\040\222\030\262\347\066
\364\256\062\164\270\107\321\330\017\330\054\313\152\302\000\165
\371\054\370\102\016\313\376\163\223\251\217\341\307\256\041\067
\363\312\271\014\264\347\211\176\161\034\126\064\040\303\361\064
\271\125\113\323\123\122\361\007\055\053\076\133\031\100\237\020
\355\323\051\063\305\257\017\020\126\207\332\073\310\261\355\070
\331\031\373\113\360\120\055\244\315\324\130
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Trust for "ACNLB"
# Issuer: O=ACNLB,C=SI
#
 Serial Number:3e:c3:86:8e
# Subject: O=ACNLB,C=SI
# Not Valid Before: Thu May 15 11:52:45 2003
# Not Valid After: Mon May 15 12:22:45 2023
# Fingerprint (MD5): ba:92:64:42:16:1f:cb:a1:16:48:1a:f6:40:5c:59:87
# Fingerprint (SHA1): 04:56:f2:3d:1e:9c:43:ae:cb:0d:80:7f:1c:06:47:55:1a:05:f4:56
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ACNLB"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\004\126\362\075\036\234\103\256\313\015\200\177\034\006\107\125
\032\005\364\126
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\272\222\144\102\026\037\313\241\026\110\032\366\100\134\131\207
END
CKA_ISSUER MULTILINE_OCTAL
\060\035\061\013\060\011\006\003\125\004\006\023\002\123\111\061
\016\060\014\006\003\125\004\012\023\005\101\103\116\114\102
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\076\303\206\216
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING
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 CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "state-institutions"
# Issuer: OU=sigen-ca,O=state-institutions,C=si
# Serial Number:3b:3c:f9:c9
# Subject: OU=sigen-ca,O=state-institutions,C=si
# Not Valid Before: Fri Jun 29 21:27:46 2001
# Not Valid After: Tue Jun 29 21:57:46 2021
# Fingerprint (MD5): 49:ef:a6:a1:f0:de:8e:a7:6a:ee:5b:7d:1e:5f:c4:46
# Fingerprint (SHA1): 3e:42:a1:87:06:bd:0c:9c:cf:59:47:50:d2:e4:d6:ab:00:48:fd:c4
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "state-institutions"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\075\061\013\060\011\006\003\125\004\006\023\002\163\151\061
\033\060\031\006\003\125\004\012\023\022\163\164\141\164\145\055
\151\156\163\164\151\164\165\164\151\157\156\163\061\021\060\017
\006\003\125\004\013\023\010\163\151\147\145\156\055\143\141
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\075\061\013\060\011\006\003\125\004\006\023\002\163\151\061
\033\060\031\006\003\125\004\012\023\022\163\164\141\164\145\055
\151\156\163\164\151\164\165\164\151\157\156\163\061\021\060\017
\006\003\125\004\013\023\010\163\151\147\145\156\055\143\141
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\073\074\371\311
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\031\060\202\003\001\240\003\002\001\002\002\004\073
\074\371\311\060\015\006\011\052\206\110\206\367\015\001\001\005
\005\000\060\075\061\013\060\011\006\003\125\004\006\023\002\163
\151\061\033\060\031\006\003\125\004\012\023\022\163\164\141\164
\145\055\151\156\163\164\151\164\165\164\151\157\156\163\061\021
\060\017\006\003\125\004\013\023\010\163\151\147\145\156\055\143
\141\060\036\027\015\060\061\060\066\062\071\062\061\062\067\064
\066\132\027\015\062\061\060\066\062\071\062\061\065\067\064\066
\132\060\075\061\013\060\011\006\003\125\004\006\023\002\163\151
\061\033\060\031\006\003\125\004\012\023\022\163\164\141\164\145
\055\151\156\163\164\151\164\165\164\151\157\156\163\061\021\060
\017\006\003\125\004\013\023\010\163\151\147\145\156\055\143\141
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\060\202\001\042\060\015\006\011\052\206\110\206\367\015\001\001
\001\005\000\003\202\001\017\000\060\202\001\012\002\202\001\001
\000\260\345\145\262\300\254\144\226\362\210\033\263\355\236\344
\002\306\117\053\210\316\056\212\121\200\165\257\020\133\362\313
\070\146\233\242\016\155\064\107\226\245\222\021\257\366\065\107
\242\167\042\014\316\026\210\142\252\323\111\156\030\274\056\104
\330\276\306\236\302\032\031\254\101\216\374\060\007\002\362\306
\152\324\133\043\000\357\101\064\330\244\163\143\337\042\222\063
\204\001\245\215\363\203\134\372\270\324\172\065\337\354\370\155
\017\340\114\355\255\234\072\175\206\326\245\010\224\276\175\172
\021\037\376\205\077\124\132\210\143\207\234\245\261\247\116\315
\267\104\163\257\317\212\111\153\037\343\315\327\111\115\132\053
\027\346\134\166\263\273\162\271\157\047\322\233\211\025\210\337
\020\137\166\041\001\152\307\025\061\012\321\234\130\370\050\026
\005\155\331\116\331\241\327\007\040\313\113\046\211\115\222\262
\247\272\226\350\343\130\217\042\234\001\226\132\304\367\061\115
\013\111\265\341\170\141\342\124\030\006\273\236\124\064\176\014
\076\353\356\265\200\037\335\026\204\035\150\070\146\147\163\370
\221\002\003\001\000\001\243\202\001\037\060\202\001\033\060\021
\006\011\140\206\110\001\206\370\102\001\001\004\004\003\002\000
\007\060\137\006\003\125\035\037\004\130\060\126\060\124\240\122
\240\120\244\116\060\114\061\013\060\011\006\003\125\004\006\023
\002\163\151\061\033\060\031\006\003\125\004\012\023\022\163\164
\141\164\145\055\151\156\163\164\151\164\165\164\151\157\156\163
\061\021\060\017\006\003\125\004\013\023\010\163\151\147\145\156
\055\143\141\061\015\060\013\006\003\125\004\003\023\004\103\122
\114\061\060\053\006\003\125\035\020\004\044\060\042\200\017\062
\060\060\061\060\066\062\071\062\061\062\067\064\066\132\201\017
\062\060\062\061\060\066\062\071\062\061\065\067\064\066\132\060
\013\006\003\125\035\017\004\004\003\002\001\006\060\037\006\003
\125\035\043\004\030\060\026\200\024\161\173\212\006\037\061\005
\125\253\140\022\167\107\040\036\003\210\030\354\211\060\035\006
\003\125\035\016\004\026\004\024\161\173\212\006\037\061\005\125
\253\140\022\167\107\040\036\003\210\030\354\211\060\014\006\003
\125\035\023\004\005\060\003\001\001\377\060\035\006\011\052\206
\110\206\366\175\007\101\000\004\020\060\016\033\010\126\065\056
\060\072\064\056\060\003\002\004\220\060\015\006\011\052\206\110
\206\367\015\001\001\005\005\000\003\202\001\001\000\000\272\143
\064\363\030\030\356\256\176\215\222\307\065\365\302\023\324\326
\000\252\041\062\026\326\320\133\372\051\260\215\372\027\167\222
\371\245\266\366\371\207\077\006\017\040\356\142\075\064\367\251
\057\307\251\073\320\047\210\114\254\335\311\251\345\132\130\205
\327\022\065\075\334\260\202\133\162\364\273\163\267\373\376\070
\041\230\004\200\262\210\142\017\036\254\072\026\251\346\263\012
\366\025\020\105\003\243\227\342\315\254\020\334\371\000\036\277
\163\154\103\354\167\042\026\006\057\226\203\211\173\260\270\123
\104\101\010\334\200\037\005\333\031\011\166\207\276\065\235\116
\041\113\264\223\301\150\072\235\137\066\376\241\256\060\054\113

\336\170\044\072\130\326\026\103\357\235\231\070\213\052\230\376
\060\321\302\352\326\257\045\325\245\166\013\271\357\100\071\056
\366\353\337\062\136\035\175\207\265\104\314\002\071\322\046\225
\162\330\157\205\103\250\217\016\243\106\316\327\316\350\271\126
\251\370\211\027\022\037\103\111\006\172\062\347\077\276\157\171
\276\326\063\327\114\074\050\374\022\361\166\166\030
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "state-institutions"
Issuer: OU=sigen-ca,O=state-institutions,C=si
#
 Serial Number:3b:3c:f9:c9
Subject: OU=sigen-ca,O=state-institutions,C=si
Not Valid Before: Fri Jun 29 21:27:46 2001
Not Valid After: Tue Jun 29 21:57:46 2021
Fingerprint (MD5): 49:ef:a6:a1:f0:de:8e:a7:6a:ee:5b:7d:1e:5f:c4:46
Fingerprint (SHA1): 3e:42:a1:87:06:bd:0c:9c:cf:59:47:50:d2:e4:d6:ab:00:48:fd:c4
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "state-institutions"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\076\102\241\207\006\275\014\234\317\131\107\120\322\344\326\253
\000\110\375\304
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\111\357\246\241\360\336\216\247\152\356\133\175\036\137\304\106
END
CKA_ISSUER MULTILINE_OCTAL
\060\075\061\013\060\011\006\003\125\004\006\023\002\163\151\061
\033\060\031\006\003\125\004\012\023\022\163\164\141\164\145\055
\151\156\163\164\151\164\165\164\151\157\156\163\061\021\060\017
\006\003\125\004\013\023\010\163\151\147\145\156\055\143\141
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\004\073\074\371\311
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

```
# Microsoft Code Signing Only Certificate
# Certificate "SECOM Trust Systems CO.,LTD."
# Issuer: OU=Security Communication EV RootCA1,O=SECOM Trust Systems CO.\,LTD.,C=JP
# Serial Number: 0 (0x0)
# Subject: OU=Security Communication EV RootCA1,O=SECOM Trust Systems CO.\,LTD.,C=JP
# Not Valid Before: Wed Jun 06 02:12:32 2007
# Not Valid After: Sat Jun 06 02:12:32 2037
# Fingerprint (MD5): 22:2d:a6:01:ea:7c:0a:f7:f0:6c:56:43:3f:77:76:d3
# Fingerprint (SHA1): fe:b8:c4:32:dc:f9:76:9a:ce:ae:3d:d8:90:8f:fd:28:86:65:64:7d
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SECOM Trust Systems CO.,LTD."
CKA_CERTIFICATE_TYPE
 CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\140\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\045\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040
\124\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117
\056\054\114\124\104\056\061\052\060\050\006\003\125\004\013\023
\041\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156
\151\143\141\164\151\157\156\040\105\126\040\122\157\157\164\103
\101\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\140\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\045\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040
\124\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117
\056\054\114\124\104\056\061\052\060\050\006\003\125\004\013\023
\041\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156
\151\143\141\164\151\157\156\040\105\126\040\122\157\157\164\103
\101\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\175\060\202\002\145\240\003\002\001\002\002\001\000
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\140\061\013\060\011\006\003\125\004\006\023\002\112\120\061\045
\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040\124
\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117\056
\054\114\124\104\056\061\052\060\050\006\003\125\004\013\023\041
\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156\151
\143\141\164\151\157\156\040\105\126\040\122\157\157\164\103\101
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\061\060\036\027\015\060\067\060\066\060\066\060\062\061\062\063
\062\132\027\015\063\067\060\066\060\066\060\062\061\062\063\062
\132\060\140\061\013\060\011\006\003\125\004\006\023\002\112\120
\061\045\060\043\006\003\125\004\012\023\034\123\105\103\117\115
\040\124\162\165\163\164\040\123\171\163\164\145\155\163\040\103
\117\056\054\114\124\104\056\061\052\060\050\006\003\125\004\013
\023\041\123\145\143\165\162\151\164\171\040\103\157\155\155\165
\156\151\143\141\164\151\157\156\040\105\126\040\122\157\157\164
\103\101\061\060\202\001\042\060\015\006\011\052\206\110\206\367
\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002
\202\001\001\000\274\177\354\127\233\044\340\376\234\272\102\171
\251\210\212\372\200\340\365\007\051\103\352\216\012\064\066\215
\034\372\247\265\071\170\377\227\165\367\057\344\252\153\004\204
\104\312\246\342\150\216\375\125\120\142\017\244\161\016\316\007
\070\055\102\205\120\255\074\226\157\213\325\242\016\317\336\111
\211\075\326\144\056\070\345\036\154\265\127\212\236\357\110\016
\315\172\151\026\207\104\265\220\344\006\235\256\241\004\227\130
\171\357\040\112\202\153\214\042\277\354\037\017\351\204\161\355
\361\016\344\270\030\023\314\126\066\135\321\232\036\121\153\071
\156\140\166\210\064\013\363\263\321\260\235\312\141\342\144\035
\301\106\007\270\143\335\036\063\145\263\216\011\125\122\075\265
\275\377\007\353\255\141\125\030\054\251\151\230\112\252\100\305
\063\024\145\164\000\371\221\336\257\003\110\305\100\124\334\017
\204\220\150\040\305\222\226\334\056\345\002\105\252\300\137\124
\370\155\352\111\317\135\154\113\257\357\232\302\126\134\306\065
\126\102\152\060\137\302\253\366\342\075\077\263\311\021\217\061
\114\327\237\111\002\003\001\000\001\243\102\060\100\060\035\006
\003\125\035\016\004\026\004\024\065\112\365\115\257\077\327\202
\070\254\253\161\145\027\165\214\235\125\223\346\060\016\006\003
\125\035\017\001\001\377\004\004\003\002\001\006\060\017\006\003
\125\035\023\001\001\377\004\005\060\003\001\001\377\060\015\006
\011\052\206\110\206\367\015\001\001\005\005\000\003\202\001\001
\000\250\207\351\354\370\100\147\135\303\301\146\307\100\113\227
\374\207\023\220\132\304\357\240\312\137\213\267\247\267\361\326
\265\144\267\212\263\270\033\314\332\373\254\146\210\101\316\350
\374\344\333\036\210\246\355\047\120\033\002\060\044\106\171\376
\004\207\160\227\100\163\321\300\301\127\031\232\151\245\047\231
\253\235\142\204\366\121\301\054\311\043\025\330\050\267\253\045
\023\265\106\341\206\002\377\046\214\304\210\222\035\126\376\031
\147\362\125\344\200\243\153\234\253\167\341\121\161\015\040\333
\020\232\333\275\166\171\007\167\231\050\255\232\136\332\261\117
\104\054\065\216\245\226\307\375\203\360\130\306\171\326\230\174
\250\215\376\206\076\007\026\222\341\173\347\035\354\063\166\176
\102\056\112\205\371\221\211\150\204\003\201\245\233\232\276\343
\067\305\124\253\126\073\030\055\101\244\014\370\102\333\231\240
\340\162\157\273\135\341\026\117\123\012\144\371\116\364\277\116
\124\275\170\154\210\352\277\234\023\044\302\160\151\242\177\017
\310\074\255\010\311\260\230\100\243\052\347\210\203\355\167\217

```
\164
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Trust for "SECOM Trust Systems CO.,LTD."
# Issuer: OU=Security Communication EV RootCA1,O=SECOM Trust Systems CO.\,LTD.,C=JP
# Serial Number: 0 (0x0)
# Subject: OU=Security Communication
 EV RootCA1,O=SECOM Trust Systems CO.\,LTD.,C=JP
# Not Valid Before: Wed Jun 06 02:12:32 2007
# Not Valid After: Sat Jun 06 02:12:32 2037
# Fingerprint (MD5): 22:2d:a6:01:ea:7c:0a:f7:f0:6c:56:43:3f:77:76:d3
# Fingerprint (SHA1): fe:b8:c4:32:dc:f9:76:9a:ce:ae:3d:d8:90:8f:fd:28:86:65:64:7d
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SECOM Trust Systems CO.,LTD."
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\376\270\304\062\334\371\166\232\316\256\075\330\220\217\375\050
\206\145\144\175
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\042\055\246\001\352\174\012\367\360\154\126\103\077\167\166\323
END
CKA_ISSUER MULTILINE_OCTAL
\060\140\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\045\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040
\124\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117
\056\054\114\124\104\056\061\052\060\050\006\003\125\004\013\023
\041\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156
\151\143\141\164\151\157\156\040\105\126\040\122\157\157\164\103
\101\061
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
```

```
# Certificate "D-TRUST Root Class 2 CA 2007"
# Issuer: CN=D-TRUST Root Class 2 CA 2007,O=D-Trust GmbH,C=DE
# Serial Number: 200341 (0x30e95)
# Subject: CN=D-TRUST Root Class 2 CA 2007,O=D-Trust GmbH,C=DE
# Not Valid Before: Wed May 16 05:20:47 2007
# Not Valid After: Mon May 16 05:20:47 2022
# Fingerprint (MD5): 2c:c2:b0:d5:d6:22:c5:2e:90:1e:f4:63:3f:0f:bb:32
# Fingerprint (SHA1): 4a:05:8f:df:d7:61:db:21:b0:c2:ee:48:57:9b:e2:7f:42:a4:da:1c
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE
 CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root Class 2 CA 2007"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\113\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\045\060\043\006\003\125\004\003\014
\034\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\062\040\103\101\040\062\060\060\067
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\113\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\045\060\043\006\003\125\004\003\014
\034\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\062\040\103\101\040\062\060\060\067
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\003\016\225
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\225\060\202\003\175\240\003\002\001\002\002\003\003
\016\225\060\015\006\011\052\206\110\206\367\015\001\001\005\005
\000\060\113\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165
\163\164\040\107\155\142\110\061\045\060\043\006\003\125\004\003
\014\034\104\055\124\122\125\123\124\040\122\157\157\164\040\103
\154\141\163\163\040\062\040\103\101\040\062\060\060\067\060\036
\027\015\060\067\060\065\061\066\060\065\062\060\064\067\132\027
\015\062\062\060\065\061\066\060\065\062\060\064\067\132\060\113
\061\013\060\011\006\003\125\004\006\023\002\104\105\061\025\060
\023\006\003\125\004\012\014\014\104\055\124\162\165\163\164\040
\107\155\142\110\061\045\060\043\006\003\125\004\003\014\034\104
\055\124\122\125\123\124\040\122\157\157\164\040\103\154\141\163
\163\040\062\040\103\101\040\062\060\060\067\060\202\001\042\060
```

\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202
\001\017\000\060\202\001\012\002\202\001\001\000\263\315\344\204
\025\111\370\344\326\316\204\263\232\255\366\060\165\220\015\204
\353\356\332\263\172\165\052\342\073\244\352\060\054\353\075\167
\215\201\204\150\112\246\244\150\334\220\163\141\064\145\007\035
\043\245\014\346\277\323\335\063\135\332\062\355\246\015\123\246
\164\152\134\031\131\246\114\265\057\171\001\136\236\177\112\372
\272\311\047\176\324\377\315\000\131\040\353\006\314\263\104\317
\326\205\351\355\073\014\154\301\352\214\134\340\271\251\002\360
\023\000\047\223\234\120\376\315\023\117\155\033\152\252\335\017
\377\106\045\031\334\341\136\120\254\032\177\016\313\332\356\040
\374\303\364\234\112\170\065\156\356\061\307\105\026\162\205\322
\202\040\333\122\105\174\074\277\131\127\371\207\164\126\230\133
\035\120\216\314\057\263\263\077\213\356\354\067\111\001\210\357
\330\041\014\223\323\366\156\211\117\272\027\313\104\201\267\173
\247\043\273\164\012\323\330\352\067\105\047\377\334\360\236\103
\343\272\173\212\033\232\175\351\206\240\376\057\321\326\366\207
\127\252\362\051\224\207\163\025\372\152\116\255\002\003\001\000
\001\243\202\001\200\060\202\001\174\060\017\006\003\125\035\023
\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125\035
\016\004\026\004\024\221\060\253\366\363\306\104\267\353\335\050
\274\017\024\237\122\135\142\177\002\060\071\006\010\053\006\001
\005\005\007\001\001\004\055\060\053\060\051\006\010\053\006\001
\005\005\007\060\001\206\035\150\164\164\160\072\057\057\165\163
\145\162\163\056\157\143\163\160\056\144\055\164\162\165\163\164
\056\156\145\164\060\063\006\003\125\035\021\004\054\060\052\201
\020\151\156\146\157\100\144\055\164\162\165\163\164\056\156\145
\164\206\026\150\164\164\160\072\057\057\167\167\167\056\144\055
\164\162\165\163\164\056\156\145\164\060\016\006\003\125\035\017
\001\001\377\004\004\003\002\001\006\060\201\311\006\003\125\035
\037\004\201\301\060\201\276\060\201\273\240\201\270\240\201\265
\206\166\154\144\141\160\072\057\057\144\151\162\145\143\164\157
\162\171\056\144\055\164\162\165\163\164\056\156\145\164\057\103
\116\075\104\055\124\122\125\123\124\045\062\060\122\157\157\164
\045\062\060\103\154\141\163\163\045\062\060\062\045\062\060\103
\101\045\062\060\062\060\060\067\054\117\075\104\055\124\162\165
\163\164\045\062\060\107\155\142\110\054\103\075\104\105\077\143
\145\162\164\151\146\151\143\141\164\145\162\145\166\157\143\141
\164\151\157\156\154\151\163\164\206\073\150\164\164\160\072\057
\057\167\167\167\056\144\055\164\162\165\163\164\056\156\145\164
\057\143\162\154\057\144\055\164\162\165\163\164\137\162\157\157
\164\137\143\154\141\163\163\137\062\137\143\141\137\062\060\060
\067\056\143\162\154\060\015\006\011\052\206\110\206\367\015\001
\001\005\005\000\003\202\001\001\000\133\213\362\103\343\005\056
\144\037\325\222\251\121\153\144\374\016\106\314\007\231\342\267
\374\223\051\040\334\374\057\140\344\254\175\045\062\355\020\341
\017\157\333\362\274\116\356\101\311\263\324\007\110\172\012\257
\244\266\377\121\060\355\313\322\234\353\177\120\356\113\342\142

\247\064\302\040\366\363\366\365\066\300\313\221\020\353\355\056
\215\364\007\032\041\014\065\167\364\174\055\215\111\245\327\013
\104\150\325\322\342\345\014\170\070\023\312\261\114\122\252\052
\345\325\257\134\005\071\235\055\255\276\043\126\325\057\125\363
\336\235\253\202\066\240\115\267\131\221\107\356\336\203\245\352
\073\136\047\005\200\013\155\054\120\364\001\067\325\243\167\027
\354\376\335\204\364\305\370\120\222\320\113\306\056\243\213\100
\344\303\067\243\167\275\316\054\125\342\254\337\135\144\000\272
\276\247\152\061\006\374\231\153\120\025\045\235\251\166\232\247
\115\052\232\002\143\353\160\347\376\021\046\320\030\305\246\037
\012\103\223\362\030\331\365\071\171\270\007\135\214\037\346\077
\363\305\313\041\146\061\173\173\317
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "D-TRUST Root Class 2 CA 2007"
Issuer: CN=D-TRUST Root Class 2 CA 2007,O=D-Trust GmbH,C=DE
Serial Number:
200341 (0x30e95)
Subject: CN=D-TRUST Root Class 2 CA 2007,O=D-Trust GmbH,C=DE
Not Valid Before: Wed May 16 05:20:47 2007
Not Valid After: Mon May 16 05:20:47 2022
Fingerprint (MD5): 2c:c2:b0:d5:d6:22:c5:2e:90:1e:f4:63:3f:0f:bb:32
Fingerprint (SHA1): 4a:05:8f:df:d7:61:db:21:b0:c2:ee:48:57:9b:e2:7f:42:a4:da:1c
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root Class 2 CA 2007"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\112\005\217\337\327\141\333\041\260\302\356\110\127\233\342\177
\102\244\332\034
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\054\302\260\325\326\042\305\056\220\036\364\143\077\017\273\062
END
CKA_ISSUER MULTILINE_OCTAL
\060\113\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\045\060\043\006\003\125\004\003\014
\034\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\062\040\103\101\040\062\060\060\067
END
CKA_SERIAL_NUMBER

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 MULTILINE_OCTAL
\002\003\003\016\225
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "D-TRUST Root Class 3 CA 2007"
# Issuer: CN=D-TRUST Root Class 3 CA 2007,O=D-Trust GmbH,C=DE
# Serial Number: 200342 (0x30e96)
# Subject: CN=D-TRUST Root Class 3 CA 2007,O=D-Trust GmbH,C=DE
# Not Valid Before: Wed May 16 05:20:47 2007
# Not Valid After: Mon May 16 05:20:47 2022
# Fingerprint (MD5): 1e:24:0e:a0:f8:76:d7:85:a3:f5:f8:a1:49:3d:2e:ba
# Fingerprint (SHA1): fd:1e:d1:e2:02:1b:0b:9f:73:e8:eb:75:ce:23:43:6b:bc:c7:46:eb
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root Class 3
 CA 2007"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\113\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\045\060\043\006\003\125\004\003\014
\034\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\063\040\103\101\040\062\060\060\067
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\113\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\045\060\043\006\003\125\004\003\014
\034\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\063\040\103\101\040\062\060\060\067
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\003\016\226
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\225\060\202\003\175\240\003\002\001\002\002\003\003
\016\226\060\015\006\011\052\206\110\206\367\015\001\001\005\005
\000\060\113\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165
\163\164\040\107\155\142\110\061\045\060\043\006\003\125\004\003
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\014\034\104\055\124\122\125\123\124\040\122\157\157\164\040\103
\154\141\163\163\040\063\040\103\101\040\062\060\060\067\060\036
\027\015\060\067\060\065\061\066\060\065\062\060\064\067\132\027
\015\062\062\060\065\061\066\060\065\062\060\064\067\132\060\113
\061\013\060\011\006\003\125\004\006\023\002\104\105\061\025\060
\023\006\003\125\004\012\014\014\104\055\124\162\165\163\164\040
\107\155\142\110\061\045\060\043\006\003\125\004\003\014\034\104
\055\124\122\125\123\124\040\122\157\157\164\040\103\154\141\163
\163\040\063\040\103\101\040\062\060\060\067\060\202\001\042\060
\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202
\001\017\000\060\202\001\012\002\202\001\001\000\272\215\315\065
\123\062\356\246\275\110\220\232\362\352\350\130\017\107\146\250
\314\156\011\022\344\241\313\133\337\223\270\366\351\071\071\370
\306\330\351\317\032\206\274\246\256\017\214\257\010\105\343\362
\216\053\302\134\131\053\372\214\066\263\160\035\310\120\074\245
\126\276\352\256\351\107\366\347\111\017\257\177\224\046\324\002
\032\007\270\272\071\125\316\237\273\042\071\051\330\065\305\231
\003\041\330\247\070\143\361\344\064\337\107\256\237\067\361\154
\240\231\302\042\260\155\162\334\042\311\061\071\350\126\327\240
\217\072\041\133\206\232\117\050\371\034\166\367\314\117\077\371
\116\167\213\052\234\212\252\171\101\212\325\034\331\071\157\230
\311\136\105\227\035\011\224\031\331\120\121\205\162\163\277\254
\113\235\164\064\161\207\041\026\017\176\356\322\111\176\312\111
\323\371\222\052\107\110\117\017\135\132\241\313\325\050\354\360
\222\305\162\103\106\353\263\003\246\363\127\045\112\012\141\204
\012\046\326\357\246\270\330\024\215\170\271\323\267\045\321\116
\343\132\026\252\354\237\007\356\043\020\175\265\002\003\001\000
\001\243\202\001\200\060\202\001\174\060\017\006\003\125\035\023
\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125\035
\016\004\026\004\024\202\057\066\043\111\170\040\102\327\260\122
\130\240\326\164\124\025\170\277\252\060\071\006\010\053\006\001
\005\005\007\001\001\004\055\060\053\060\051\006\010\053\006\001
\005\005\007\060\001\206\035\150\164\164\160\072\057\057\165\163
\145\162\163\056\157\143\163\160\056\144\055\164\162\165\163\164
\056\156\145\164\060\063\006\003\125\035\021\004\054\060\052\201
\020\151\156\146\157\100\144\055\164\162\165\163\164\056\156\145
\164\206\026\150\164\164\160\072\057\057\167\167\167\056\144\055
\164\162\165\163\164\056\156\145\164\060\016\006\003\125\035\017
\001\001\377\004\004\003\002\001\006\060\201\311\006\003\125\035
\037\004\201\301\060\201\276\060\201\273\240\201\270\240\201\265
\206\166\154\144\141\160\072\057\057\144\151\162\145\143\164\157
\162\171\056\144\055\164\162\165\163\164\056\156\145\164\057\103
\116\075\104\055\124\122\125\123\124\045\062\060\122\157\157\164
\045\062\060\103\154\141\163\163\045\062\060\063\045\062\060\103
\101\045\062\060\062\060\060\067\054\117\075\104\055\124\162\165
\163\164\045\062\060\107\155\142\110\054\103\075\104\105\077\143
\145\162\164\151\146\151\143\141\164\145\162\145\166\157\143\141
\164\151\157\156\154\151\163\164\206\073\150\164\164\160\072\057

\057\167\167\167\056\144\055\164\162\165\163\164\056\156\145\164
\057\143\162\154\057\144\055\164\162\165\163\164\137\162\157\157
\164\137\143\154\141\163\163\137\063\137\143\141\137\062\060\060
\067\056\143\162\154\060\015\006\011\052\206\110\206\367\015\001
\001\005\005\000\003\202\001\001\000\125\016\150\012\215\334\331
\250\206\140\002\151\171\215\175\351\220\302\331\035\035\265\016
\273\163\222\144\143\024\106\114\320\152\273\243\165\135\206\031
\070\141\206\035\270\212\042\064\243\264\065\025\263\251\140\114
\124\027\237\261\336\133\062\342\176\153\336\117\042\360\055\035
\042\004\236\266\112\117\253\054\126\235\343\335\354\261\046\116
\052\327\125\302\076\275\202\327\276\125\273\105\310\051\133\206
\074\235\077\150\104\104\104\066\015\150\277\256\001\242\031\265
\114\227\377\362\226\074\147\262\102\336\017\341\240\227\116\312
\347\064\145\256\225\202\141\147\046\163\055\335\173\347\225\113
\016\041\252\222\256\114\374\306\263\251\345\231\203\062\071\360
\140\302\114\121\250\301\107\024\065\211\245\115\066\017\237\033
\002\161\101\215\102\112\044\370\257\156\235\015\160\206\215\252
\142\023\036\003\213\044\371\303\124\223\111\205\033\165\166\142
\177\042\377\111\275\166\163\014\077\230\255\052\262\372\347\305
\337\164\365\377\151\061\125\012\072\300\031\142\065\304\111\271
\053\031\035\364\160\231\356\330\334
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "D-TRUST Root Class 3 CA 2007"
Issuer: CN=D-TRUST Root Class 3 CA 2007,O=D-Trust GmbH,C=DE
Serial Number: 200342 (0x30e96)
Subject: CN=D-TRUST Root Class 3 CA 2007,O=D-Trust
GmbH,C=DE
Not Valid Before: Wed May 16 05:20:47 2007
Not Valid After: Mon May 16 05:20:47 2022
Fingerprint (MD5): 1e:24:0e:a0:f8:76:d7:85:a3:f5:f8:a1:49:3d:2e:ba
Fingerprint (SHA1): fd:1e:d1:e2:02:1b:0b:9f:73:e8:eb:75:ce:23:43:6b:bc:c7:46:eb
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root Class 3 CA 2007"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\375\036\321\342\002\033\013\237\163\350\353\165\316\043\103\153
\274\307\106\353
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\036\044\016\240\370\166\327\205\243\365\370\241\111\075\056\272

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END
CKA_ISSUER MULTILINE_OCTAL
\060\113\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\045\060\043\006\003\125\004\003\014
\034\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\063\040\103\101\040\062\060\060\067
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\003\003\016\226
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "SSC Root CA A"
# Issuer: CN=SSC Root CA A,OU=Certification Authority,O=Skaitmeninio sertifikavimo centras,C=LT
# Serial Number:66:07:a3:d2:9d:29:56:18:0e:e1:5e:59:98:b1:84:55
# Subject: CN=SSC Root CA A,OU=Certification Authority,O=Skaitmeninio sertifikavimo centras,C=LT
# Not Valid Before: Wed Dec 27 12:18:52 2006
# Not Valid After: Mon Dec 28 12:05:04 2026
# Fingerprint (MD5): 46:8c:21:0e:ab:92:21:46:59:db:a6:db:00:61:de:26
# Fingerprint (SHA1): 5a:5a:4d:af:78:61:26:7c:4b:1f:1e:67:58:6b:ae:6e:d4:fe:b9:3f
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8
 "SSC Root CA A"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\164\061\013\060\011\006\003\125\004\006\023\002\114\124\061
\053\060\051\006\003\125\004\012\023\042\123\153\141\151\164\155
\145\156\151\156\151\157\040\163\145\162\164\151\146\151\153\141
\166\151\155\157\040\143\145\156\164\162\141\163\061\040\060\036
\006\003\125\004\013\023\027\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\061\026
\060\024\006\003\125\004\003\023\015\123\123\103\040\122\157\157
\164\040\103\101\040\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\164\061\013\060\011\006\003\125\004\006\023\002\114\124\061
\053\060\051\006\003\125\004\012\023\042\123\153\141\151\164\155
\145\156\151\156\151\157\040\163\145\162\164\151\146\151\153\141
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\166\151\155\157\040\143\145\156\164\162\141\163\061\040\060\036
\006\003\125\004\013\023\027\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\061\026
\060\024\006\003\125\004\003\023\015\123\123\103\040\122\157\157
\164\040\103\101\040\101
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\146\007\243\322\235\051\126\030\016\341\136\131\230\261
\204\125
END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\052\060\202\004\022\240\003\002\001\002\002\020\146
\007\243\322\235\051\126\030\016\341\136\131\230\261\204\125\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\164
\061\013\060\011\006\003\125\004\006\023\002\114\124\061\053\060
\051\006\003\125\004\012\023\042\123\153\141\151\164\155\145\156
\151\156\151\157\040\163\145\162\164\151\146\151\153\141\166\151
\155\157\040\143\145\156\164\162\141\163\061\040\060\036\006\003
\125\004\013\023\027\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\061\026\060\024
\006\003\125\004\003\023\015\123\123\103\040\122\157\157\164\040
\103\101\040\101\060\036\027\015\060\066\061\062\062\067\061\062
\061\070\065\062\132\027\015\062\066\061\062\062\070\061\062\060
\065\060\064\132\060\164\061\013\060\011\006\003\125\004\006\023
\002\114\124\061\053\060\051\006\003\125\004\012\023\042\123\153
\141\151\164\155\145\156\151\156\151\157\040\163\145\162\164\151
\146\151\153\141\166\151\155\157\040\143\145\156\164\162\141\163
\061\040\060\036\006\003\125\004\013\023\027\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\061\026\060\024\006\003\125\004\003\023\015\123\123\103
\040\122\157\157\164\040\103\101\040\101\060\202\002\042\060\015
\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\002
\017\000\060\202\002\012\002\202\002\001\000\272\352\117\276\204
\300\031\044\212\041\251\114\231\175\367\014\325\245\121\222\250
\145\343\211\243\013\146\347\102\370\171\322\017\203\043\173\267
\246\301\044\326\065\326\330\345\001\312\160\261\026\326\107\156
\276\020\154\176\351\120\156\166\367\345\344\203\017\170\325\240
\163\365\215\321\231\037\224\104\043\226\306\356\162\132\371\332
\135\074\221\257\154\350\227\350\206\135\367\236\213\372\304\254
\146\117\344\162\077\073\335\236\116\065\322\023\037\175\273\104
\113\364\123\254\326\024\327\100\071\272\300\077\374\205\040\323
\304\000\320\347\330\107\231\004\171\207\206\100\262\254\136\311
\165\040\303\011\024\257\004\216\246\242\255\052\127\210\145\241
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\003\300\152\333\076\272\266\211\236\344\327\056\232\267\103\001
\077\371\332\254\251\254\344\167\063\207\355\013\071\335\307\301
\255\015\131\203\060\321\066\004\130\264\144\116\346\377\010\350

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\155\167\002\242\106\136\371\151\057\373\073\030\225\137\216\134
\227\224\140\136\035\161\250\101\264\135\317\132\172\147\343\324
\112\065\037\067\340\166\026\003\073\364\121\234\230\024\051\111
\210\014\102\320\055\155\251\247\100\046\072\171\000\060\073\300
\273\104\230\255\044\316\321\226\334\211\170\201\366\132\133\102
\274\164\341\207\323\145\310\107\346\066\262\314\301\157\300\307
\334\200\045\122\074\061\220\335\311\310\120\250\172\273\166\340
\357\023\224\316\004\176\152\266\116\167\371\203\320\157\370\072
\320\012\103\312\272\020\266\377\074\035\224\140\224\204\155\365
\245\311\175\114\012\176\057\217\157\375\335\055\173\112\351\357
\064\333\273\176\377\014\157\067\372\371\303\314\311\057\321\351
\054\075\052\254\154\046\073\320\011\136\304\200\047\213\335\141
\360\347\225\121\103\304\015\346\061\320\170\326\301\306\302\146
\001\321\343\314\307\323\036\025\005\066\333\224\232\354\122\303
\221\307\057\261\364\003\367\007\254\323\113\221\253\126\074\320
\256\375\137\155\055\323\000\021\317\223\275\002\003\001\000\001
\243\201\267\060\201\264\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\001\001\377\060\075\006\003\125\035\040\004\066
\060\064\060\062\006\013\053\006\001\004\001\201\257\145\001\002
\000\060\043\060\041\006\010\053\006\001\005\005\007\002\001\026
\025\150\164\164\160\072\057\057\167\167\167\056\163\163\143\056
\154\164\057\143\160\163\060\063\006\003\125\035\037\004\054\060
\052\060\050\240\046\240\044\206\042\150\164\164\160\072\057\057
\143\162\154\056\163\163\143\056\154\164\057\162\157\157\164\055
\141\057\143\141\143\162\154\056\143\162\154\060\016\006\003\125
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\035\016\004\026\004\024\314\277\336\247\220\167\142\152\035\170
\151\056\012\070\233\167\121\123\003\360\060\015\006\011\052\206
\110\206\367\015\001\001\005\005\000\003\202\002\001\000\076\257
\310\250\307\063\117\360\156\232\103\341\362\260\127\122\341\234
\236\006\137\102\326\361\375\312\213\121\077\341\307\145\151\117
\164\031\120\212\317\030\223\111\215\240\034\260\073\075\216\110
\223\331\350\005\176\304\011\261\017\122\212\153\227\157\327\216
\074\200\000\320\101\163\255\075\303\104\007\161\152\217\142\176
\005\330\123\140\162\261\001\351\000\142\252\015\330\330\111\302
\264\175\015\133\263\227\051\066\231\271\247\321\113\230\153\104
\274\262\022\216\166\144\165\114\015\315\302\056\263\130\374\172
\117\125\263\131\177\135\340\057\060\063\317\210\033\151\351\115
\212\220\236\220\271\061\072\363\242\005\274\376\371\335\120\215
\016\224\031\235\176\215\252\025\176\017\122\223\045\344\201\016
\226\055\034\003\034\060\203\021\226\102\251\230\244\235\137\311
\251\134\073\111\150\302\204\155\231\332\366\376\242\362\334\067
\136\215\172\345\245\127\312\043\113\223\135\222\052\125\204\263
\226\263\036\230\224\111\174\154\074\334\236\035\266\253\303\254
\011\305\235\336\067\327\124\304\234\255\077\260\326\151\001\345
\020\206\175\271\201\203\156\234\146\116\225\005\222\220\061\207

\046\262\332\221\164\275\204\344\161\150\344\166\000\340\166\163
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\141\042\345\253\035\072\101\073\204\327\202\170\005\057\254\035
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\026\000\166\047\325\160\351\011\215\066\224\011\177\343\357\140
\020\121\312\306\125\160\146\253\121\157\363\121\117\022\126\256
\373\327\331\015\340\372\253\020\336\152\201\254\205\167\055\254
\172\143\173\106\341\067\332\127\156\255\145\374\041\004\231\205
\001\317\043\072\062\305\355\132\233\325\241\202\004\167\021\105
\216\244\104\175\302\313\313\247\017\350\022\272\362\156\272\217
\063\060\033\335\051\370\360\102\243\156\102\245\156\372\126\245
\251\120\203\321\005\146\026\213\055\373\346\222\321\346\154\013
\325\132\051\155\053\317\171\327\331\332\117\360\150\266
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "SSC Root CA A"
Issuer: CN=SSC Root CA A,OU=Certification Authority,O=Skaitmeninio sertifikavimo centras,C=LT
Serial Number:66:07:a3:d2:9d:29:56:18:0e:e1:5e:59:98:b1:84:55
#
Subject: CN=SSC Root CA A,OU=Certification Authority,O=Skaitmeninio sertifikavimo centras,C=LT
Not Valid Before: Wed Dec 27 12:18:52 2006
Not Valid After: Mon Dec 28 12:05:04 2026
Fingerprint (MD5): 46:8c:21:0e:ab:92:21:46:59:db:a6:db:00:61:de:26
Fingerprint (SHA1): 5a:5a:4d:af:78:61:26:7c:4b:1f:1e:67:58:6b:ae:6e:d4:fe:b9:3f
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSC Root CA A"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\132\132\115\257\170\141\046\174\113\037\036\147\130\153\256\156
\324\376\271\077
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\106\214\041\016\253\222\041\106\131\333\246\333\000\141\336\046
END
CKA_ISSUER MULTILINE_OCTAL
\060\164\061\013\060\011\006\003\125\004\006\023\002\114\124\061
\053\060\051\006\003\125\004\012\023\042\123\153\141\151\164\155
\145\156\151\156\151\157\040\163\145\162\164\151\146\151\153\141
\166\151\155\157\040\143\145\156\164\162\141\163\061\040\060\036

\006\003\125\004\013\023\027\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\061\026
\060\024\006\003\125\004\003\023\015\123\123\103\040\122\157\157
\164\040\103\101\040\101
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\146\007\243\322\235\051\126\030\016\341\136\131\230\261
\204\125
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "SSC Root CA B"
Issuer: CN=SSC Root CA B,OU=Certification Authority,O=Skaitmeninio sertifikavimo centras,C=LT
Serial Number:be:92:83:18:f3:55:8a:78:a3:67:59:1c:69:24:09:3f
Subject: CN=SSC Root CA B,OU=Certification Authority,O=Skaitmeninio sertifikavimo centras,C=LT
Not Valid Before: Wed Dec 27 12:22:50 2006
Not Valid
After: Fri Dec 25 12:08:26 2026
Fingerprint (MD5): da:26:b6:e6:c7:c2:f7:b7:9e:46:59:b3:57:77:18:65
Fingerprint (SHA1): 3e:84:d3:bc:c5:44:c0:f6:fa:19:43:5c:85:1f:3f:2f:cb:a8:e8:14
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSC Root CA B"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\164\061\013\060\011\006\003\125\004\006\023\002\114\124\061
\053\060\051\006\003\125\004\012\023\042\123\153\141\151\164\155
\145\156\151\156\151\157\040\163\145\162\164\151\146\151\153\141
\166\151\155\157\040\143\145\156\164\162\141\163\061\040\060\036
\006\003\125\004\013\023\027\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\061\026
\060\024\006\003\125\004\003\023\015\123\123\103\040\122\157\157
\164\040\103\101\040\102
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\164\061\013\060\011\006\003\125\004\006\023\002\114\124\061
\053\060\051\006\003\125\004\012\023\042\123\153\141\151\164\155
\145\156\151\156\151\157\040\163\145\162\164\151\146\151\153\141
\166\151\155\157\040\143\145\156\164\162\141\163\061\040\060\036
\006\003\125\004\013\023\027\103\145\162\164\151\146\151\143\141

\164\151\157\156\040\101\165\164\150\157\162\151\164\171\061\026
\060\024\006\003\125\004\003\023\015\123\123\103\040\122\157\157
\164\040\103\101\040\102
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\021\000\276\222\203\030\363\125\212\170\243\147\131\034\151
\044\011\077
END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\053\060\202\004\023\240\003\002\001\002\002\021\000
\276\222\203\030\363\125\212\170\243\147\131\034\151\044\011\077
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\164\061\013\060\011\006\003\125\004\006\023\002\114\124\061\053
\060\051\006\003\125\004\012\023\042\123\153\141\151\164\155\145
\156\151\156\151\157\040\163\145\162\164\151\146\151\153\141\166
\151\155\157\040\143\145\156\164\162\141\163\061\040\060\036\006
\003\125\004\013\023\027\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\061\026\060
\024\006\003\125\004\003\023\015\123\123\103\040\122\157\157\164
\040\103\101\040\102\060\036\027\015\060\066\061\062\062\067\061
\062\062\062\065\060\132\027\015\062\066\061\062\062\065\061\062
\060\070\062\066\132\060\164\061\013\060\011\006\003\125\004\006
\023\002\114\124\061\053\060\051\006\003\125\004\012\023\042\123
\153\141\151\164\155\145\156\151\156\151\157\040\163\145\162\164
\151\146\151\153\141\166\151\155\157\040\143\145\156\164\162\141
\163\061\040\060\036\006\003\125\004\013\023\027\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171\061\026\060\024\006\003\125\004\003\023\015\123\123
\103\040\122\157\157\164\040\103\101\040\102\060\202\002\042\060
\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202
\002\017\000\060\202\002\012\002\202\002\001\000\301\363\125\365
\107\121\116\125\027\145\215\260\262\101\050\241\112\321\237\113
\366\163\377\076\322\311\115\131\077\344\267\307\237\006\135\330
\074\243\210\204\340\163\135\375\005\352\307\216\327\244\004\152
\353\237\275\103\375\024\222\106\270\305\272\252\355\140\354\354
\312\220\215\012\162\251\101\233\324\235\274\260\154\242\021\037
\144\313\347\035\324\105\147\016\011\153\345\170\354\361\077\004
\124\363\232\231\307\131\321\322\171\247\244\032\260\174\111\374
\034\207\124\136\170\006\325\335\035\314\205\240\102\170\325\320
\260\212\352\350\361\241\236\126\357\323\301\175\207\254\347\332
\150\117\031\326\157\340\223\255\111\134\163\024\301\106\152\235
\367\130\100\331\127\130\116\154\067\364\162\043\004\370\333\112
\260\336\361\101\226\022\100\241\025\213\147\270\136\170\126\313
\177\344\276\300\111\150\221\270\107\010\223\201\301\265\033\061
\006\323\200\173\321\105\241\317\014\075\141\363\222\370\361\260
\025\016\370\056\060\133\000\243\111\367\155\376\356\334\277\210
\317\360\175\127\076\257\300\321\212\353\174\322\155\061\125\372

\204\215\163\152\332\160\200\304\364\302\317\220\216\060\232\341
\306\065\162\001\010\346\077\346\146\000\243\362\370\222\035\274
\122\354\217\366\334\367\012\357\274\020\207\371\204\030\214\136
\037\003\270\377\065\057\001\152\345\360\133\142\174\343\263\177
\063\252\224\327\116\121\201\265\350\127\170\217\042\226\251\014
\211\124\076\266\356\331\163\137\144\364\104\341\361\152\030\377
\122\226\304\034\277\211\227\244\303\247\312\176\030\156\026\334
\023\214\273\325\265\045\011\206\257\366\057\105\224\052\060\301
\024\224\065\366\135\312\045\225\234\261\130\211\270\265\140\205
\311\306\276\024\031\243\076\371\126\205\253\312\154\326\231\171
\242\112\024\157\303\072\330\347\146\121\012\351\034\376\314\151
\346\064\154\364\201\333\175\242\021\370\114\304\207\005\026\075
\353\227\164\077\156\354\234\271\266\047\214\044\337\055\263\257
\335\023\141\166\217\377\362\114\340\010\031\060\062\044\062\134
\066\200\027\356\206\311\337\057\121\342\126\256\203\222\360\263
\275\330\207\072\054\236\304\334\151\231\371\313\002\003\001\000
\001\243\201\267\060\201\264\060\017\006\003\125\035\023\001\001
\377\004\005\060\003\001\001\377\060\075\006\003\125\035\040\004
\066\060\064\060\062\006\013\053\006\001\004\001\201\257\145\001
\002\000\060\043\060\041\006\010\053\006\001\005\005\007\002\001
\026\025\150\164\164\160\072\057\057\167\167\167\056\163\163\143
\056\154\164\057\143\160\163\060\063\006\003\125\035\037\004\054
\060\052\060\050\240\046\240\044\206\042\150\164\164\160\072\057
\057\143\162\154\056\163\163\143\056\154\164\057\162\157\157\164
\055\142\057\143\141\143\162\154\056\143\162\154\060\016\006\003
\125\035\017\001\001\377\004\004\003\002\001\006\060\035\006\003
\125\035\016\004\026\004\024\234\003\360\250\322\230\162\150\256
\362\355\340\117\342\205\016\262\045\116\317\060\015\006\011\052
\206\110\206\367\015\001\001\005\005\000\003\202\002\001\000\254
\134\274\057\374\256\001\044\246\020\076\254\250\341\247\047\231
\215\312\210\301\035\075\221\366\242\176\245\361\230\101\377\252
\141\370\011\276\315\032\045\141\164\264\303\257\102\132\011\017
\221\001\276\110\225\364\312\167\136\013\203\316\204\235\317\100
\375\200\054\275\343\146\065\012\270\261\372\140\332\345\330\124
\265\113\227\272\242\032\303\040\151\215\264\106\163\134\252\277
\275\173\377\032\060\064\130\100\371\053\140\013\171\104\371\367
\242\226\013\153\122\173\360\053\113\073\322\213\240\153\223\075
\311\127\143\212\153\314\120\023\217\167\250\121\276\032\114\055
\114\135\014\220\133\216\363\357\120\040\155\201\346\121\111\253
\304\347\327\135\010\053\121\374\075\106\022\347\321\245\166\305
\123\044\005\311\252\323\216\130\305\363\212\164\222\062\355\360
\057\335\253\255\351\322\065\217\164\043\343\231\000\342\213\060
\344\303\102\256\360\273\351\342\010\033\112\160\055\175\370\322
\232\047\221\102\160\165\172\010\176\276\057\034\177\067\075\250
\213\334\106\162\365\350\157\066\150\372\156\215\040\235\324\365
\007\161\277\275\047\102\271\163\050\326\354\111\264\005\205\117
\150\110\366\253\224\337\016\243\106\024\140\302\061\040\073\353
\056\133\336\325\241\054\155\345\122\372\201\137\227\210\311\143

\275\001\354\343\315\153\012\065\302\311\070\343\016\363\130\033
\175\332\220\155\267\365\310\130\126\235\256\001\337\221\235\255
\125\202\003\014\021\164\004\221\206\307\174\223\214\363\047\373
\305\044\127\156\213\331\033\230\235\210\061\360\257\167\270\015
\264\314\317\366\012\157\022\233\354\011\053\123\211\354\104\340
\241\151\213\250\164\206\164\030\122\340\322\277\240\241\145\041
\271\010\203\172\363\244\365\370\136\067\045\107\231\246\135\327
\042\132\333\223\147\027\333\020\343\214\321\022\221\107\212\225
\245\107\241\003\370\113\056\041\305\220\142\260\177\047\243\333
\025\177\070\177\154\177\116\005\305\003\264\055\337\105\137\165
\054\035\361\137\246\265\366\027\071\101\351\370\145\302\036\130
\021\312\174\216\342\265\272\222\017\147\267\217\353\231\324\061
\373\162\173\132\230\137\222\224\307\004\352\060\366\273\032
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "SSC Root CA B"
Issuer: CN=SSC Root CA B,OU=Certification Authority,O=Skaitmeninio sertifikavimo centras,C=LT
Serial Number:be:92:83:18:f3:55:8a:78:a3:67:59:1c:69:24:09:3f
Subject: CN=SSC Root CA B,OU=Certification Authority,O=Skaitmeninio sertifikavimo centras,C=LT
Not Valid Before: Wed Dec 27 12:22:50 2006
Not Valid After: Fri Dec 25 12:08:26 2026
Fingerprint (MD5): da:26:b6:e6:c7:c2:f7:b7:9e:46:59:b3:57:77:18:65
Fingerprint (SHA1): 3e:84:d3:bc:c5:44:c0:f6:fa:19:43:5c:85:1f:3f:2f:cb:a8:e8:14
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSC Root CA B"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\076\204\323\274\305\104\300\366\372\031\103\134\205\037\077\057
\313\250\350\024
END
CKA_CERT_MD5_HASH
 MULTILINE_OCTAL
\332\046\266\346\307\302\367\267\236\106\131\263\127\167\030\145
END
CKA_ISSUER MULTILINE_OCTAL
\060\164\061\013\060\011\006\003\125\004\006\023\002\114\124\061
\053\060\051\006\003\125\004\012\023\042\123\153\141\151\164\155
\145\156\151\156\151\157\040\163\145\162\164\151\146\151\153\141
\166\151\155\157\040\143\145\156\164\162\141\163\061\040\060\036
\006\003\125\004\013\023\027\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\061\026

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\060\024\006\003\125\004\003\023\015\123\123\103\040\122\157\157
\164\040\103\101\040\102
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\276\222\203\030\363\125\212\170\243\147\131\034\151
\044\011\077
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
#
 Certificate "SSC Root CA C"
# Issuer: CN=SSC Root CA C,OU=Certification Authority,O=Skaitmeninio sertifikavimo centras,C=LT
# Serial Number:34:b9:12:9f:ac:c7:92:55:42:5c:de:57:ff:e3:c0:05
# Subject: CN=SSC Root CA C,OU=Certification Authority,O=Skaitmeninio sertifikavimo centras,C=LT
# Not Valid Before: Wed Dec 27 12:26:30 2006
# Not Valid After: Tue Dec 22 12:11:30 2026
# Fingerprint (MD5): 3c:4c:25:cc:0a:19:ca:ee:6a:eb:55:16:00:86:72:5f
# Fingerprint (SHA1): 23:e8:33:23:3e:7d:0c:c9:2b:7c:42:79:ac:19:c2:f4:74:d6:04:ca
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSC Root CA C"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\164\061\013\060\011\006\003\125\004\006\023\002\114\124\061
\053\060\051\006\003\125\004\012\023\042\123\153\141\151\164\155
\145\156\151\156\151\157\040\163\145\162\164\151\146\151\153\141
\166\151\155\157\040\143\145\156\164\162\141\163\061\040\060\036
\006\003\125\004\013\023\027\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\061\026
\060\024\006\003\125\004\003\023\015\123\123\103\040\122\157\157
\164\040\103\101\040\103
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\164\061\013\060\011\006\003\125\004\006\023\002\114\124\061
\053\060\051\006\003\125\004\012\023\042\123\153\141\151\164\155
\145\156\151\156\151\157\040\163\145\162\164\151\146\151\153\141
\166\151\155\157\040\143\145\156\164\162\141\163\061\040\060\036
\006\003\125\004\013\023\027\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\061\026
\060\024\006\003\125\004\003\023\015\123\123\103\040\122\157\157
```

\164\040\103\101\040\103
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\064\271\022\237\254\307\222\125\102\134\336\127\377\343
\300\005
END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\052\060\202\004\022\240\003\002\001\002\002\020\064
\271\022\237\254\307\222\125\102\134\336\127\377\343\300\005\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\164
\061\013\060\011\006\003\125\004\006\023\002\114\124\061\053\060
\051\006\003\125\004\012\023\042\123\153\141\151\164\155\145\156
\151\156\151\157\040\163\145\162\164\151\146\151\153\141\166\151
\155\157\040\143\145\156\164\162\141\163\061\040\060\036\006\003
\125\004\013\023\027\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\061\026\060\024
\006\003\125\004\003\023\015\123\123\103\040\122\157\157\164\040
\103\101\040\103\060\036\027\015\060\066\061\062\062\067\061\062
\062\066\063\060\132\027\015\062\066\061\062\062\062\061\062\061
\061\063\060\132\060\164\061\013\060\011\006\003\125\004\006\023
\002\114\124\061\053\060\051\006\003\125\004\012\023\042\123\153
\141\151\164\155\145\156\151\156\151\157\040\163\145\162\164\151
\146\151\153\141\166\151\155\157\040\143\145\156\164\162\141\163
\061\040\060\036\006\003\125\004\013\023\027\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\061\026\060\024\006\003\125\004\003\023\015\123\123\103
\040\122\157\157\164\040\103\101\040\103\060\202\002\042\060\015
\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\002
\017\000\060\202\002\012\002\202\002\001\000\241\105\042\372\214
\314\251\157\004\263\364\150\062\026\151\021\117\171\337\103\275
\121\140\160\032\230\335\170\170\226\230\142\367\160\113\201\250
\340\035\004\211\364\217\353\156\351\360\377\201\330\056\175\257
\027\040\361\042\357\360\077\105\107\100\264\313\262\270\040\077
\076\112\150\120\377\232\006\327\227\305\267\212\026\056\161\322
\107\163\135\030\145\057\357\071\063\350\266\125\257\046\255\002
\200\351\143\327\041\160\007\076\314\276\137\211\300\370\316\035
\045\156\303\374\177\126\071\141\321\216\302\046\172\347\170\002
\012\131\335\125\043\260\370\065\247\342\253\363\253\057\327\265
\213\012\052\162\124\053\155\171\274\362\331\351\103\371\317\361
\216\146\022\367\227\131\052\331\327\224\334\370\224\263\105\243
\257\026\055\263\200\312\075\316\350\246\307\012\224\164\374\067
\232\351\077\014\067\026\040\103\311\107\160\273\214\205\374\230
\211\051\313\207\031\176\031\123\020\211\200\165\256\023\361\277
\244\135\060\005\051\174\250\367\266\136\007\060\025\210\256\115
\025\240\312\315\327\377\253\243\006\127\017\247\343\211\151\034
\326\032\321\324\047\337\226\306\070\134\257\167\376\025\253\104
\101\175\323\230\273\250\040\030\257\213\155\324\132\302\330\226
\215\110\365\007\061\176\141\364\141\233\122\201\100\216\112\047

\004\262\007\323\002\020\224\363\373\335\261\173\160\270\264\310
\201\365\000\007\246\215\210\005\115\304\217\226\316\324\266\300
\301\146\214\052\254\150\112\311\106\334\015\346\056\250\171\050
\175\167\103\160\026\176\034\032\072\246\171\117\023\100\211\261
\062\273\011\106\021\015\164\274\047\345\330\355\055\372\120\051
\334\045\312\227\020\347\251\242\141\056\072\211\246\104\141\276
\117\136\222\011\355\334\056\246\357\123\273\141\045\330\047\245
\024\106\051\205\046\000\330\371\371\005\325\173\026\061\102\103
\005\027\221\234\112\140\100\044\155\265\155\172\171\373\234\232
\143\303\230\151\345\167\142\043\052\121\211\017\154\262\375\303
\312\330\364\032\103\224\320\175\013\341\130\076\032\310\164\204
\233\367\254\202\256\121\105\222\322\006\131\341\263\301\336\245
\037\223\042\171\330\315\304\171\140\043\225\002\003\001\000\001
\243\201\267\060\201\264\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\001\001\377\060\075\006\003\125\035\040\004\066
\060\064\060\062\006\013\053\006\001\004\001\201\257\145\001\002
\000\060\043\060\041\006\010\053\006\001\005\005\007\002\001\026
\025\150\164\164\160\072\057\057\167\167\167\056\163\163\143\056
\154\164\057\143\160\163\060\063\006\003\125\035\037\004\054\060
\052\060\050\240\046\240\044\206\042\150\164\164\160\072\057\057
\143\162\154\056\163\163\143\056\154\164\057\162\157\157\164\055
\143\057\143\141\143\162\154\056\143\162\154\060\016\006\003\125
\035\017\001\001\377\004\004\003\002\001\006\060\035\006\003\125
\035\016\004\026\004\024\210\007\163\366\361\274\122\032\132\035
\075\221\142\355\135\254\235\013\345\267\060\015\006\011\052\206
\110\206\367\015\001\001\005\005\000\003\202\002\001\000\037\220
\161\120\230\325\331\064\322\226\204\030\302\254\106\002\040\034
\313\071\261\267\257\005\244\327\130\363\221\121\175\216\201\047
\234\350\222\261\347\034\237\072\213\020\122\163\114\302\307\102
\035\320\353\336\052\312\042\121\175\214\164\172\032\374\274\244
\363\163\310\146\043\304\056\103\020\107\340\212\151\127\356\057
\362\000\122\260\060\222\252\326\324\025\305\127\313\140\172\364
\016\215\376\036\011\143\164\217\340\376\276\120\331\001\071\126
\272\120\114\366\343\105\232\273\122\166\336\176\235\373\215\302
\124\061\076\307\261\074\076\337\343\117\375\335\233\044\151\174
\355\350\161\266\102\006\307\037\305\137\373\040\165\333\301\375
\351\154\242\052\220\324\206\375\315\015\377\340\005\212\130\141
\075\237\304\231\057\355\333\174\304\015\230\230\125\234\164\242
\027\136\333\252\021\344\067\014\044\377\040\147\321\045\333\232
\211\240\145\210\061\221\004\161\137\040\224\130\063\066\035\062
\336\157\327\147\010\251\240\073\375\333\244\120\045\226\036\251
\137\211\027\245\227\231\121\225\151\333\304\361\217\364\157\060
\053\131\363\254\165\207\063\175\006\335\341\301\153\326\304\311
\136\160\104\172\152\307\234\167\073\026\376\376\165\276\237\054
\321\300\003\356\021\171\165\354\251\133\034\172\205\265\050\120
\040\251\032\035\346\173\214\063\030\377\301\355\310\166\145\037
\035\360\114\073\247\333\352\315\126\330\224\127\077\340\110\251
\177\214\063\113\275\364\014\145\024\200\202\364\065\167\330\004

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\020\160\316\017\154\301\131\313\231\255\201\356\336\075\110\320
\172\210\057\100\223\327\234\272\171\204\030\200\165\337\320\132
\337\121\167\076\130\211\151\165\107\061\344\152\026\160\124\004
\354\275\134\171\123\143\322\342\136\275\115\045\332\021\266\017
\252\351\054\256\365\321\251\215\002\126\313\374\260\044\352\214
\272\160\377\062\320\267\306\004\052\143\325\312\106\221\325\231
\162\011\007\136\050\003\253\022\034\045\263\154\072\131\145\264
\164\155\055\055\031\162\157\375\347\230\021\207\036\163\043\277
\065\361\233\266\303\331\314\073\120\174\162\350\317\136\300\230
\314\056\003\375\037\057\312\164\134\261\034\321\354\151
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Trust for "SSC Root CA C"
# Issuer: CN=SSC Root CA C,OU=Certification Authority,O=Skaitmeninio sertifikavimo centras,C=LT
# Serial Number:34:b9:12:9f:ac:c7:92:55:42:5c:de:57:ff:e3:c0:05
# Subject: CN=SSC Root CA C,OU=Certification Authority,O=Skaitmeninio sertifikavimo centras,C=LT
# Not Valid Before: Wed Dec 27 12:26:30 2006
# Not Valid After: Tue Dec 22 12:11:30 2026
# Fingerprint (MD5): 3c:4c:25:cc:0a:19:ca:ee:6a:eb:55:16:00:86:72:5f
# Fingerprint (SHA1): 23:e8:33:23:3e:7d:0c:c9:2b:7c:42:79:ac:19:c2:f4:74:d6:04:ca
CKA_CLASS
 CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSC Root CA C"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\043\350\063\043\076\175\014\311\053\174\102\171\254\031\302\364
\164\326\004\312
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\074\114\045\314\012\031\312\356\152\353\125\026\000\206\162\137
END
CKA_ISSUER MULTILINE_OCTAL
\060\164\061\013\060\011\006\003\125\004\006\023\002\114\124\061
\053\060\051\006\003\125\004\012\023\042\123\153\141\151\164\155
\145\156\151\156\151\157\040\163\145\162\164\151\146\151\153\141
\166\151\155\157\040\143\145\156\164\162\141\163\061\040\060\036
\006\003\125\004\013\023\027\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\061\026
\060\024\006\003\125\004\003\023\015\123\123\103\040\122\157\157
\164\040\103\101\040\103
END
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CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\064\271\022\237\254\307\222\125\102\134\336\127\377\343
\300\005
END
CKA_TRUST_SERVER_AUTH
 CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Autoridad de Certificacion de la Abogacia"
# Issuer: CN=Autoridad de Certificacion de la Abogacia,O=Consejo General de la Abogacia NIF:Q-2863006I,C=ES
# Serial Number:90:8b:32:4f:c1:90:1a:ce:b4:c3:38:09:cd:cf:e4
# Subject: CN=Autoridad de Certificacion de la Abogacia,O=Consejo General de la Abogacia NIF:Q-
2863006I,C=ES
# Not Valid Before: Mon Jun 13 22:00:00 2005
# Not Valid After: Thu Jun 13 22:00:00 2030
# Fingerprint (MD5): 15:ee:9f:5a:a0:85:28:df:6b:dd:34:a3:a0:56:d8:30
# Fingerprint (SHA1): 7f:8a:77:83:6b:dc:6d:06:8f:8b:07:37:fc:c5:72:54:13:06:8c:a4
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE
 CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridad de Certificacion de la Abogacia"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\171\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\066\060\064\006\003\125\004\012\023\055\103\157\156\163\145\152
\157\040\107\145\156\145\162\141\154\040\144\145\040\154\141\040
\101\142\157\147\141\143\151\141\040\116\111\106\072\121\055\062
\070\066\063\060\060\066\111\061\062\060\060\006\003\125\004\003
\023\051\101\165\164\157\162\151\144\141\144\040\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\156\040\144\145\040
\154\141\040\101\142\157\147\141\143\151\141
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\171\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\066\060\064\006\003\125\004\012\023\055\103\157\156\163\145\152
\157\040\107\145\156\145\162\141\154\040\144\145\040\154\141\040
\101\142\157\147\141\143\151\141\040\116\111\106\072\121\055\062
\070\066\063\060\060\066\111\061\062\060\060\006\003\125\004\003
\023\051\101\165\164\157\162\151\144\141\144\040\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\156\040\144\145\040
\154\141\040\101\142\157\147\141\143\151\141
END
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CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\000\220\213\062\117\301\220\032\316\264\303\070\011\315
\317\344
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\274\060\202\003\244\240\003\002\001\002\002\020\000
\220\213\062\117\301\220\032\316\264\303\070\011\315\317\344\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\171
\061\013\060\011\006\003\125\004\006\023\002\105\123\061\066\060
\064\006\003\125\004\012\023\055\103\157\156\163\145\152\157\040
\107\145\156\145\162\141\154\040\144\145\040\154\141\040\101\142
\157\147\141\143\151\141\040\116\111\106\072\121\055\062\070\066
\063\060\060\066\111\061\062\060\060\006\003\125\004\003\023\051
\101\165\164\157\162\151\144\141\144\040\144\145\040\103\145\162
\164\151\146\151\143\141\143\151\157\156\040\144\145\040\154\141
\040\101\142\157\147\141\143\151\141\060\036\027\015\060\065\060
\066\061\063\062\062\060\060\060\060\132\027\015\063\060\060\066
\061\063\062\062\060\060\060\060\132\060\171\061\013\060\011\006
\003\125\004\006\023\002\105\123\061\066\060\064\006\003\125\004
\012\023\055\103\157\156\163\145\152\157\040\107\145\156\145\162
\141\154\040\144\145\040\154\141\040\101\142\157\147\141\143\151
\141\040\116\111\106\072\121\055\062\070\066\063\060\060\066\111
\061\062\060\060\006\003\125\004\003\023\051\101\165\164\157\162
\151\144\141\144\040\144\145\040\103\145\162\164\151\146\151\143
\141\143\151\157\156\040\144\145\040\154\141\040\101\142\157\147
\141\143\151\141\060\202\001\042\060\015\006\011\052\206\110\206
\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012
\002\202\001\001\000\264\262\127\356\205\360\043\350\015\373\262
\200\204\361\020\147\253\262\371\111\337\134\336\133\344\217\051
\031\123\311\325\350\034\120\153\141\002\214\207\360\217\074\301
\105\222\013\254\231\241\306\032\205\326\075\255\176\046\246\035
\270\075\262\263\076\212\305\012\062\323\113\221\357\111\165\176
\126\367\376\240\010\142\106\053\316\352\362\121\237\140\336\062
\310\355\032\247\317\165\134\353\075\300\275\232\110\245\206\224
\316\130\120\024\352\152\341\232\364\214\145\225\341\140\025\045
\225\022\366\272\170\213\262\300\355\346\154\227\044\132\035\344
\164\103\312\070\304\065\224\130\216\365\212\260\150\074\050\054
\104\226\011\277\011\133\162\012\347\147\074\220\271\124\070\164
\124\273\155\055\152\103\310\274\357\011\254\037\043\350\122\126
\136\065\027\137\053\273\136\315\145\122\245\024\174\073\262\252
\351\335\047\265\067\043\073\006\015\054\173\215\272\332\157\146
\027\206\247\266\327\036\007\135\036\154\031\227\310\345\043\163
\170\321\256\371\036\272\241\256\111\042\355\145\161\037\177\367
\132\164\104\215\103\002\003\001\000\001\243\202\001\076\060\202
\001\072\060\067\006\003\125\035\021\004\060\060\056\201\021\141
\143\100\141\143\141\142\157\147\141\143\151\141\056\157\162\147
\206\031\150\164\164\160\072\057\057\167\167\167\056\141\143\141

\142\157\147\141\143\151\141\056\157\162\147\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006\003
\125\035\017\001\001\377\004\004\003\002\001\006\060\021\006\011
\140\206\110\001\206\370\102\001\001\004\004\003\002\000\007\060
\035\006\003\125\035\016\004\026\004\024\374\210\114\216\155\004
\241\040\220\323\370\034\232\263\147\004\137\171\200\306\060\201
\253\006\003\125\035\040\004\201\243\060\201\240\060\201\235\006
\013\053\006\001\004\001\201\201\025\012\001\001\060\201\215\060
\051\006\010\053\006\001\005\005\007\002\001\026\035\150\164\164
\160\072\057\057\167\167\167\056\141\143\141\142\157\147\141\143
\151\141\056\157\162\147\057\144\157\143\060\140\006\010\053\006
\001\005\005\007\002\002\060\124\032\122\103\157\156\163\165\154
\164\145\040\154\141\040\144\145\143\154\141\162\141\143\151\157
\156\040\144\145\040\160\162\141\143\164\151\143\141\163\040\144
\145\040\143\145\162\164\151\146\151\143\141\143\151\157\156\040
\145\156\040\150\164\164\160\072\057\057\167\167\167\056\141\143
\141\142\157\147\141\143\151\141\056\157\162\147\060\015\006\011
\052\206\110\206\367\015\001\001\005\005\000\003\202\001\001\000
\230\247\372\071\265\163\021\046\177\274\211\077\264\153\045\063
\061\012\206\070\153\311\036\025\227\024\340\322\114\055\205\364
\074\164\233\215\050\021\373\314\016\046\271\200\203\026\321\371
\106\230\266\106\007\216\146\205\155\160\300\272\114\200\363\244
\360\325\067\124\053\257\146\204\162\163\371\110\057\011\316\341
\205\001\312\217\340\207\336\240\227\320\224\264\015\265\115\016
\147\054\310\140\304\062\224\300\101\201\007\215\272\277\251\350
\014\100\232\102\170\005\135\201\353\142\034\344\117\024\012\075
\013\076\037\351\364\315\175\356\105\273\274\336\135\363\230\227
\046\173\306\023\051\370\053\177\032\324\352\372\262\156\040\236
\332\027\352\241\222\275\067\351\016\273\273\221\325\045\366\140
\135\205\041\120\133\377\124\135\365\113\073\264\303\051\021\130
\002\366\045\344\341\202\202\273\242\215\347\221\044\136\100\221
\236\107\007\214\063\127\324\142\061\121\166\165\205\103\157\011
\253\021\245\045\051\271\330\377\137\245\367\077\353\145\073\035
\357\206\345\026\042\325\036\312\062\151\175\176\005\327\060\047
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Autoridad de Certificacion de la Abogacia"
Issuer: CN=Autoridad de Certificacion de la Abogacia,O=Consejo General de la Abogacia NIF:Q-2863006I,C=ES
Serial Number:90:8b:32:4f:c1:90:1a:ce:b4:c3:38:09:cd:cf:e4
Subject: CN=Autoridad de Certificacion de la Abogacia,O=Consejo General de la Abogacia NIF:Q-2863006I,C=ES
Not Valid Before: Mon Jun 13 22:00:00 2005
Not Valid After: Thu Jun 13 22:00:00 2030

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# Fingerprint (MD5): 15:ee:9f:5a:a0:85:28:df:6b:dd:34:a3:a0:56:d8:30
# Fingerprint (SHA1):
 7f:8a:77:83:6b:dc:6d:06:8f:8b:07:37:fc:c5:72:54:13:06:8c:a4
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridad de Certificacion de la Abogacia"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\177\212\167\203\153\334\155\006\217\213\007\067\374\305\162\124
\023\006\214\244
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\025\356\237\132\240\205\050\337\153\335\064\243\240\126\330\060
END
CKA_ISSUER MULTILINE_OCTAL
\060\171\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\066\060\064\006\003\125\004\012\023\055\103\157\156\163\145\152
\157\040\107\145\156\145\162\141\154\040\144\145\040\154\141\040
\101\142\157\147\141\143\151\141\040\116\111\106\072\121\055\062
\070\066\063\060\060\066\111\061\062\060\060\006\003\125\004\003
\023\051\101\165\164\157\162\151\144\141\144\040\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\156\040\144\145\040
\154\141\040\101\142\157\147\141\143\151\141
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\000\220\213\062\117\301\220\032\316\264\303\070\011\315
\317\344
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Root CA Generalitat Valenciana"
# Issuer: CN=Root CA Generalitat Valenciana,OU=PKIGVA,O=Generalitat Valenciana,C=ES
# Serial Number:3b:45:e5:68
# Subject: CN=Root CA Generalitat Valenciana,OU=PKIGVA,O=Generalitat Valenciana,C=ES
# Not Valid Before: Fri Jul 06 16:22:47 2001
# Not Valid After: Thu Jul 01 15:22:47 2021
# Fingerprint (MD5): 2c:8c:17:5e:b1:54:ab:93:17:b5:36:5a:db:d1:c6:f2
# Fingerprint (SHA1): a0:73:e5:c5:bd:43:61:0d:86:4c:21:13:0a:85:58:57:cc:9c:ea:46
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

CKA_LABEL
UTF8 "Root CA Generalitat Valenciana"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\150\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\037\060\035\006\003\125\004\012\023\026\107\145\156\145\162\141
\154\151\164\141\164\040\126\141\154\145\156\143\151\141\156\141
\061\017\060\015\006\003\125\004\013\023\006\120\113\111\107\126
\101\061\047\060\045\006\003\125\004\003\023\036\122\157\157\164
\040\103\101\040\107\145\156\145\162\141\154\151\164\141\164\040
\126\141\154\145\156\143\151\141\156\141
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\150\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\037\060\035\006\003\125\004\012\023\026\107\145\156\145\162\141
\154\151\164\141\164\040\126\141\154\145\156\143\151\141\156\141
\061\017\060\015\006\003\125\004\013\023\006\120\113\111\107\126
\101\061\047\060\045\006\003\125\004\003\023\036\122\157\157\164
\040\103\101\040\107\145\156\145\162\141\154\151\164\141\164\040
\126\141\154\145\156\143\151\141\156\141
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\004\073\105\345\150
END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\213\060\202\005\163\240\003\002\001\002\002\004\073
\105\345\150\060\015\006\011\052\206\110\206\367\015\001\001\005
\005\000\060\150\061\013\060\011\006\003\125\004\006\023\002\105
\123\061\037\060\035\006\003\125\004\012\023\026\107\145\156\145
\162\141\154\151\164\141\164\040\126\141\154\145\156\143\151\141
\156\141\061\017\060\015\006\003\125\004\013\023\006\120\113\111
\107\126\101\061\047\060\045\006\003\125\004\003\023\036\122\157
\157\164\040\103\101\040\107\145\156\145\162\141\154\151\164\141
\164\040\126\141\154\145\156\143\151\141\156\141\060\036\027\015
\060\061\060\067\060\066\061\066\062\062\064\067\132\027\015\062
\061\060\067\060\061\061\065\062\062\064\067\132\060\150\061\013
\060\011\006\003\125\004\006\023\002\105\123\061\037\060\035\006
\003\125\004\012\023\026\107\145\156\145\162\141\154\151\164\141
\164\040\126\141\154\145\156\143\151\141\156\141\061\017\060\015
\006\003\125\004\013\023\006\120\113\111\107\126\101\061\047\060
\045\006\003\125\004\003\023\036\122\157\157\164\040\103\101\040
\107\145\156\145\162\141\154\151\164\141\164\040\126\141\154\145
\156\143\151\141\156\141\060\202\001\042\060\015\006\011\052\206
\110\206\367\015\001\001\001\005\000\003\202\001\017\000\060\202
\001\012\002\202\001\001\000\306\052\253\127\021\067\057\042\212
\312\003\164\035\312\355\055\242\013\274\063\122\100\046\107\276

\132\151\246\073\162\066\027\114\350\337\270\273\057\166\341\100
\106\164\145\002\220\122\010\264\377\250\214\301\340\307\211\126
\020\071\063\357\150\264\137\137\332\155\043\241\211\136\042\243
\112\006\360\047\360\127\271\370\351\116\062\167\012\077\101\144
\363\353\145\356\166\376\124\252\175\035\040\256\363\327\164\302
\012\137\365\010\050\122\010\314\125\135\322\017\333\232\201\245
\273\241\263\301\224\315\124\340\062\165\061\221\032\142\262\336
\165\342\317\117\211\331\221\220\017\101\033\264\132\112\167\275
\147\203\340\223\347\136\247\014\347\201\323\364\122\254\123\262
\003\307\104\046\373\171\345\313\064\140\120\020\173\033\333\153
\327\107\253\137\174\150\312\156\235\101\003\020\356\153\231\173
\136\045\250\302\253\344\300\363\134\234\343\276\316\061\114\144
\036\136\200\242\365\203\176\014\326\312\214\125\216\276\340\276
\111\007\017\243\044\101\172\130\035\204\352\130\022\310\341\267
\355\357\223\336\224\010\061\002\003\001\000\001\243\202\003\073
\060\202\003\067\060\062\006\010\053\006\001\005\005\007\001\001
\004\046\060\044\060\042\006\010\053\006\001\005\005\007\060\001
\206\026\150\164\164\160\072\057\057\157\143\163\160\056\160\153
\151\056\147\166\141\056\145\163\060\022\006\003\125\035\023\001
\001\377\004\010\060\006\001\001\377\002\001\002\060\202\002\064
\006\003\125\035\040\004\202\002\053\060\202\002\047\060\202\002
\043\006\012\053\006\001\004\001\277\125\002\001\000\060\202\002
\023\060\202\001\350\006\010\053\006\001\005\005\007\002\002\060
\202\001\332\036\202\001\326\000\101\000\165\000\164\000\157\000
\162\000\151\000\144\000\141\000\144\000\040\000\144\000\145\000
\040\000\103\000\145\000\162\000\164\000\151\000\146\000\151\000
\143\000\141\000\143\000\151\000\363\000\156\000\040\000\122\000
\141\000\355\000\172\000\040\000\144\000\145\000\040\000\154\000
\141\000\040\000\107\000\145\000\156\000\145\000\162\000\141\000
\154\000\151\000\164\000\141\000\164\000\040\000\126\000\141\000
\154\000\145\000\156\000\143\000\151\000\141\000\156\000\141\000
\056\000\015\000\012\000\114\000\141\000\040\000\104\000\145\000
\143\000\154\000\141\000\162\000\141\000\143\000\151\000\363\000
\156\000\040\000\144\000\145\000\040\000\120\000\162\000\341\000
\143\000\164\000\151\000\143\000\141\000\163\000\040\000\144\000
\145\000\040\000\103\000\145\000\162\000\164\000\151\000\146\000
\151\000\143\000\141\000\143\000\151\000\363\000\156\000\040\000
\161\000\165\000\145\000\040\000\162\000\151\000\147\000\145\000
\040\000\145\000\154\000\040\000\146\000\165\000\156\000\143\000
\151\000\157\000\156\000\141\000\155\000\151\000\145\000\156\000
\164\000\157\000\040\000\144\000\145\000\040\000\154\000\141\000
\040\000\160\000\162\000\145\000\163\000\145\000\156\000\164\000
\145\000\040\000\101\000\165\000\164\000\157\000\162\000\151\000
\144\000\141\000\144\000\040\000\144\000\145\000\040\000\103\000
\145\000\162\000\164\000\151\000\146\000\151\000\143\000\141\000
\143\000\151\000\363\000\156\000\040\000\163\000\145\000\040\000
\145\000\156\000\143\000\165\000\145\000\156\000\164\000\162\000
\141\000\040\000\145\000\156\000\040\000\154\000\141\000\040\000

\144\000\151\000\162\000\145\000\143\000\143\000\151\000\363\000
\156\000\040\000\167\000\145\000\142\000\040\000\150\000\164\000
\164\000\160\000\072\000\057\000\057\000\167\000\167\000\167\000
\056\000\160\000\153\000\151\000\056\000\147\000\166\000\141\000
\056\000\145\000\163\000\057\000\143\000\160\000\163\060\045\006
\010\053\006\001\005\005\007\002\001\026\031\150\164\164\160\072
\057\057\167\167\167\056\160\153\151\056\147\166\141\056\145\163
\057\143\160\163\060\035\006\003\125\035\016\004\026\004\024\173
\065\323\100\322\034\170\031\146\357\164\020\050\334\076\117\262
\170\004\374\060\201\225\006\003\125\035\043\004\201\215\060\201
\212\200\024\173\065\323\100\322\034\170\031\146\357\164\020\050
\334\076\117\262\170\004\374\241\154\244\152\060\150\061\013\060
\011\006\003\125\004\006\023\002\105\123\061\037\060\035\006\003
\125\004\012\023\026\107\145\156\145\162\141\154\151\164\141\164
\040\126\141\154\145\156\143\151\141\156\141\061\017\060\015\006
\003\125\004\013\023\006\120\113\111\107\126\101\061\047\060\045
\006\003\125\004\003\023\036\122\157\157\164\040\103\101\040\107
\145\156\145\162\141\154\151\164\141\164\040\126\141\154\145\156
\143\151\141\156\141\202\004\073\105\345\150\060\015\006\011\052
\206\110\206\367\015\001\001\005\005\000\003\202\001\001\000\044
\141\116\365\265\310\102\002\052\263\134\165\255\305\155\312\347
\224\077\245\150\225\210\301\124\300\020\151\242\022\057\030\077
\045\120\250\174\112\352\306\011\331\364\165\306\100\332\257\120
\235\075\245\026\273\155\061\306\307\163\012\110\376\040\162\355
\157\314\350\203\141\026\106\220\001\225\113\175\216\232\122\011
\057\366\157\034\344\241\161\317\214\052\132\027\163\203\107\115
\017\066\373\004\115\111\121\342\024\311\144\141\373\324\024\340
\364\236\267\064\217\012\046\275\227\134\364\171\072\112\060\031
\314\255\117\240\230\212\264\061\227\052\342\163\155\176\170\270
\370\210\211\117\261\042\221\144\113\365\120\336\003\333\345\305
\166\347\023\146\165\176\145\373\001\237\223\207\210\235\371\106
\127\174\115\140\257\230\163\023\043\244\040\221\201\372\320\141
\146\270\175\321\257\326\157\036\154\075\351\021\375\251\371\202
\042\206\231\063\161\132\352\031\127\075\221\315\251\300\243\156
\007\023\246\311\355\370\150\243\236\303\132\162\011\207\050\321
\304\163\304\163\030\137\120\165\026\061\237\267\350\174\303
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER
 CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Root CA Generalitat Valenciana"
Issuer: CN=Root CA Generalitat Valenciana,OU=PKIGVA,O=Generalitat Valenciana,C=ES
Serial Number:3b:45:e5:68
Subject: CN=Root CA Generalitat Valenciana,OU=PKIGVA,O=Generalitat Valenciana,C=ES

```
# Not Valid Before: Fri Jul 06 16:22:47 2001
# Not Valid After: Thu Jul 01 15:22:47 2021
# Fingerprint (MD5): 2c:8c:17:5e:b1:54:ab:93:17:b5:36:5a:db:d1:c6:f2
# Fingerprint (SHA1): a0:73:e5:c5:bd:43:61:0d:86:4c:21:13:0a:85:58:57:cc:9c:ea:46
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Root CA Generalitat Valenciana"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\240\163\345\305\275\103\141\015\206\114\041\023\012\205\130\127
\314\234\352\106
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\054\214\027\136\261\124\253\223\027\265\066\132\333\321\306\362
END
CKA_ISSUER
 MULTILINE_OCTAL
\060\150\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\037\060\035\006\003\125\004\012\023\026\107\145\156\145\162\141
\154\151\164\141\164\040\126\141\154\145\156\143\151\141\156\141
\061\017\060\015\006\003\125\004\013\023\006\120\113\111\107\126
\101\061\047\060\045\006\003\125\004\003\023\036\122\157\157\164
\040\103\101\040\107\145\156\145\162\141\154\151\164\141\164\040
\126\141\154\145\156\143\151\141\156\141
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\073\105\345\150
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "EBG Elektronik Sertifika Hizmet Salaycs"
# Issuer: C=TR,O=EBG Biliim Teknolojileri ve Hizmetleri A..,CN=EBG Elektronik Sertifika Hizmet Salaycs
# Serial Number:4c:af:73:42:1c:8e:74:02
#
 Subject: C=TR,O=EBG Biliim Teknolojileri ve Hizmetleri A..,CN=EBG Elektronik Sertifika Hizmet Salaycs
# Not Valid Before: Thu Aug 17 00:21:09 2006
# Not Valid After: Sun Aug 14 00:31:09 2016
# Fingerprint (MD5): 2c:20:26:9d:cb:1a:4a:00:85:b5:b7:5a:ae:c2:01:37
# Fingerprint (SHA1): 8c:96:ba:eb:dd:2b:07:07:48:ee:30:32:66:a0:f3:98:6e:7c:ae:58
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

CKA_LABEL UTF8 "EBG Elektronik Sertifika Hizmet Salaycs"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\200\061\070\060\066\006\003\125\004\003\014\057\105\102
\107\040\105\154\145\153\164\162\157\156\151\153\040\123\145\162
\164\151\146\151\153\141\040\110\151\172\155\145\164\040\123\141
\304\237\154\141\171\304\261\143\304\261\163\304\261\061\067\060
\065\006\003\125\004\012\014\056\105\102\107\040\102\151\154\151
\305\237\151\155\040\124\145\153\156\157\154\157\152\151\154\145
\162\151\040\166\145\040\110\151\172\155\145\164\154\145\162\151
\040\101\056\305\236\056\061\013\060\011\006\003\125\004\006\023
\002\124\122
END
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\200\061\070\060\066\006\003\125\004\003\014\057\105\102
\107\040\105\154\145\153\164\162\157\156\151\153\040\123\145\162
\164\151\146\151\153\141\040\110\151\172\155\145\164\040\123\141
\304\237\154\141\171\304\261\143\304\261\163\304\261\061\067\060
\065\006\003\125\004\012\014\056\105\102\107\040\102\151\154\151
\305\237\151\155\040\124\145\153\156\157\154\157\152\151\154\145
\162\151\040\166\145\040\110\151\172\155\145\164\154\145\162\151
\040\101\056\305\236\056\061\013\060\011\006\003\125\004\006\023
\002\124\122
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\114\257\163\102\034\216\164\002
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\347\060\202\003\317\240\003\002\001\002\002\010\114
\257\163\102\034\216\164\002\060\015\006\011\052\206\110\206\367
\015\001\001\005\005\000\060\201\200\061\070\060\066\006\003\125
\004\003\014\057\105\102\107\040\105\154\145\153\164\162\157\156
\151\153\040\123\145\162\164\151\146\151\153\141\040\110\151\172
\155\145\164\040\123\141\304\237\154\141\171\304\261\143\304\261
\163\304\261\061\067\060\065\006\003\125\004\012\014\056\105\102
\107\040\102\151\154\151\305\237\151\155\040\124\145\153\156\157
\154\157\152\151\154\145\162\151\040\166\145\040\110\151\172\155
\145\164\154\145\162\151\040\101\056\305\236\056\061\013\060\011
\006\003\125\004\006\023\002\124\122\060\036\027\015\060\066\060
\070\061\067\060\060\062\061\060\071\132\027\015\061\066\060\070
\061\064\060\060\063\061\060\071\132\060\201\200\061\070\060\066
\006\003\125\004\003\014\057\105\102\107\040\105\154\145\153\164
\162\157\156\151\153\040\123\145\162\164\151\146\151\153\141\040
\110\151\172\155\145\164\040\123\141\304\237\154\141\171\304\261
\143\304\261\163\304\261\061\067\060\065\006\003\125\004\012\014
\056\105\102\107\040\102\151\154\151\305\237\151\155\040\124\145

\153\156\157\154\157\152\151\154\145\162\151\040\166\145\040\110
\151\172\155\145\164\154\145\162\151\040\101\056\305\236\056\061
\013\060\011\006\003\125\004\006\023\002\124\122\060\202\002\042
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\002\017\000\060\202\002\012\002\202\002\001\000\356\240\204
\141\320\072\152\146\020\062\330\061\070\177\247\247\345\375\241
\341\373\227\167\270\161\226\350\023\226\106\203\117\266\362\137
\162\126\156\023\140\245\001\221\342\133\305\315\127\037\167\143
\121\377\057\075\333\271\077\252\251\065\347\171\320\365\320\044
\266\041\352\353\043\224\376\051\277\373\211\221\014\144\232\005
\112\053\314\014\356\361\075\233\202\151\244\114\370\232\157\347
\042\332\020\272\137\222\374\030\047\012\250\252\104\372\056\054
\264\373\106\232\010\003\203\162\253\210\344\152\162\311\345\145
\037\156\052\017\235\263\350\073\344\014\156\172\332\127\375\327
\353\171\213\136\040\006\323\166\013\154\002\225\243\226\344\313
\166\121\321\050\235\241\032\374\104\242\115\314\172\166\250\015
\075\277\027\117\042\210\120\375\256\266\354\220\120\112\133\237
\225\101\252\312\017\262\112\376\200\231\116\243\106\025\253\370
\163\102\152\302\146\166\261\012\046\025\335\223\222\354\333\251
\137\124\042\122\221\160\135\023\352\110\354\156\003\154\331\335
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 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "EBG Elektronik Sertifika Hizmet Salaycs"
Issuer: C=TR,O=EBG Biliim Teknolojileri ve Hizmetleri A..,CN=EBG Elektronik Sertifika Hizmet Salaycs
Serial Number:4c:af:73:42:1c:8e:74:02
Subject: C=TR,O=EBG Biliim Teknolojileri ve Hizmetleri A..,CN=EBG Elektronik Sertifika Hizmet Salaycs
Not Valid Before: Thu Aug 17 00:21:09 2006
Not Valid After: Sun Aug 14 00:31:09 2016
Fingerprint (MD5): 2c:20:26:9d:cb:1a:4a:00:85:b5:b7:5a:ae:c2:01:37
Fingerprint (SHA1): 8c:96:ba:eb:dd:2b:07:07:48:ee:30:32:66:a0:f3:98:6e:7c:ae:58
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE

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CKA_LABEL UTF8 "EBG Elektronik Sertifika Hizmet Salaycs"
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\156\174\256\130
END
CKA_CERT_MD5_HASH
 MULTILINE_OCTAL
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END
CKA_ISSUER MULTILINE_OCTAL
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\164\151\146\151\153\141\040\110\151\172\155\145\164\040\123\141
\304\237\154\141\171\304\261\143\304\261\163\304\261\061\067\060
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\305\237\151\155\040\124\145\153\156\157\154\157\152\151\154\145
\162\151\040\166\145\040\110\151\172\155\145\164\154\145\162\151
\040\101\056\305\236\056\061\013\060\011\006\003\125\004\006\023
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END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
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END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED
 CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "VAS Latvijas Pasts SSI(RCA)"
# Issuer: CN=VAS Latvijas Pasts SSI(RCA),OU=Sertifikacijas pakalpojumi,O=VAS Latvijas Pasts -
Vien.reg.Nr.40003052790,C=LV
# Serial Number:63:06:86:a7:c5:37:65:a5:43:90:a8:6a:58:cc:d4:32
# Subject: CN=VAS Latvijas Pasts SSI(RCA),OU=Sertifikacijas pakalpojumi,O=VAS Latvijas Pasts -
Vien.reg.Nr.40003052790,C=LV
# Not Valid Before: Wed Sep 13 09:22:10 2006
# Not Valid After: Fri Sep 13 09:27:57 2024
# Fingerprint (MD5): fd:49:be:5b:18:5a:25:ec:f9:c3:54:85:10:40:e8:d4
# Fingerprint (SHA1): 08:64:18:e9:06:ce:e8:9c:23:53:b6:e2:7f:bd:9e:74:39:f7:63:16
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "VAS Latvijas Pasts SSI(RCA)"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\217\061\013\060\011\006\003\125\004\006\023\002\114\126
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\230\317\231\110\166\301\316\212\164\232\150\122\001\064\042\310
\355\342\024\013\204\275\156\020\214\261\162\233\276\350\010\327
\127\325\177\352\264\001\075\116\344\342\350\147\347\214\176\351
\347\102\021\357\225\106\310\221\326\276\047\027\200\031\064\230
\347\306\337\036\374\041\137\236\206\075\274\176\360\234\275\162
\236\364\107\202\133\161\147\363\372\334\124\114\250\134\330\131
\307\320\007\016\023\063\047\274\364\151\360\153\041
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "VAS Latvijas Pasts SSI(RCA)"
Issuer: CN=VAS Latvijas Pasts SSI(RCA),OU=Sertifikacijas pakalpojumi,O=VAS Latvijas Pasts - Vien.reg.Nr.40003052790,C=LV
Serial Number:63:06:86:a7:c5:37:65:a5:43:90:a8:6a:58:cc:d4:32
Subject: CN=VAS Latvijas Pasts SSI(RCA),OU=Sertifikacijas pakalpojumi,O=VAS Latvijas Pasts - Vien.reg.Nr.40003052790,C=LV
Not Valid Before: Wed Sep 13 09:22:10 2006
Not Valid After: Fri Sep 13 09:27:57 2024
Fingerprint (MD5): fd:49:be:5b:18:5a:25:ec:f9:c3:54:85:10:40:e8:d4
Fingerprint
(SHA1): 08:64:18:e9:06:ce:e8:9c:23:53:b6:e2:7f:bd:9e:74:39:f7:63:16

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "VAS Latvijas Pasts SSI(RCA)"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\010\144\030\351\006\316\350\234\043\123\266\342\177\275\236\164
\071\367\143\026
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\375\111\276\133\030\132\045\354\371\303\124\205\020\100\350\324
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\217\061\013\060\011\006\003\125\004\006\023\002\114\126
\061\065\060\063\006\003\125\004\012\023\054\126\101\123\040\114
\141\164\166\151\152\141\163\040\120\141\163\164\163\040\055\040
\126\151\145\156\056\162\145\147\056\116\162\056\064\060\060\060
\063\060\065\062\067\071\060\061\043\060\041\006\003\125\004\013
\023\032\123\145\162\164\151\146\151\153\141\143\151\152\141\163
\040\160\141\153\141\154\160\157\152\165\155\151\061\044\060\042
\006\003\125\004\003\023\033\126\101\123\040\114\141\164\166\151

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\152\141\163\040\120\141\163\164\163\040\123\123\111\050\122\103
\101\051
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\143\006\206\247\305\067\145\245\103\220\250\152\130\314
\324\062
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "ANCERT Certificados CGN"
# Issuer: CN=ANCERT Certificados CGN,O=Agencia Notarial de Certificacion S.L. Unipersonal - CIF
B83395988,C=ES
# Serial Number:44:74:ec:c8:6c:72:1e:58:dd:b8:2c:7e:f4:fc:95
# Subject: CN=ANCERT Certificados CGN,O=Agencia Notarial de Certificacion S.L. Unipersonal - CIF
B83395988,C=ES
# Not Valid Before: Wed Feb 11 17:27:12 2004
# Not Valid After: Sun Feb 11 17:27:12 2024
# Fingerprint (MD5): 1c:4b:e2:c6:2d:b9:ac:31:14:f4:40:07:69:cb:1f:40
# Fingerprint (SHA1): 11:c5:b5:f7:55:52:b0:11:66:9c:2e:97:17:de:6d:9b:ff:5f:a8:10
CKA_CLASS
 CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ANCERT Certificados CGN"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\174\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\113\060\111\006\003\125\004\012\023\102\101\147\145\156\143\151
\141\040\116\157\164\141\162\151\141\154\040\144\145\040\103\145
\162\164\151\146\151\143\141\143\151\157\156\040\123\056\114\056
\040\125\156\151\160\145\162\163\157\156\141\154\040\055\040\103
\111\106\040\102\070\063\063\071\065\071\070\070\061\040\060\036
\006\003\125\004\003\023\027\101\116\103\105\122\124\040\103\145
\162\164\151\146\151\143\141\144\157\163\040\103\107\116
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\174\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\113\060\111\006\003\125\004\012\023\102\101\147\145\156\143\151
\141\040\116\157\164\141\162\151\141\154\040\144\145\040\103\145
\162\164\151\146\151\143\141\143\151\157\156\040\123\056\114\056
\040\125\156\151\160\145\162\163\157\156\141\154\040\055\040\103
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\111\106\040\102\070\063\063\071\065\071\070\070\061\040\060\036
\006\003\125\004\003\023\027\101\116\103\105\122\124\040\103\145
\162\164\151\146\151\143\141\144\157\163\040\103\107\116
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\017\104\164\354\310\154\162\036\130\335\270\054\176\364\374
\225
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\052\060\202\004\022\240\003\002\001\002\002\017\104
\164\354\310\154\162\036\130\335\270\054\176\364\374\225\060\015
\006\011\052\206\110\206\367\015\001\001\005\005\000\060\174\061
\013\060\011\006\003\125\004\006\023\002\105\123\061\113\060\111
\006\003\125\004\012\023\102\101\147\145\156\143\151\141\040\116
\157\164\141\162\151\141\154\040\144\145\040\103\145\162\164\151
\146\151\143\141\143\151\157\156\040\123\056\114\056\040\125\156
\151\160\145\162\163\157\156\141\154\040\055\040\103\111\106\040
\102\070\063\063\071\065\071\070\070\061\040\060\036\006\003\125
\004\003\023\027\101\116\103\105\122\124\040\103\145\162\164\151
\146\151\143\141\144\157\163\040\103\107\116\060\036\027\015\060
\064\060\062\061\061\061\067\062\067\061\062\132\027\015\062\064
\060\062\061\061\061\067\062\067\061\062\132\060\174\061\013\060
\011\006\003\125\004\006\023\002\105\123\061\113\060\111\006\003
\125\004\012\023\102\101\147\145\156\143\151\141\040\116\157\164
\141\162\151\141\154\040\144\145\040\103\145\162\164\151\146\151
\143\141\143\151\157\156\040\123\056\114\056\040\125\156\151\160
\145\162\163\157\156\141\154\040\055\040\103\111\106\040\102\070
\063\063\071\065\071\070\070\061\040\060\036\006\003\125\004\003
\023\027\101\116\103\105\122\124\040\103\145\162\164\151\146\151
\143\141\144\157\163\040\103\107\116\060\202\001\042\060\015\006
\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017
\000\060\202\001\012\002\202\001\001\000\220\165\077\077\014\254
\312\324\174\304\110\247\030\273\072\273\241\273\325\173\337\213
\031\344\202\104\373\145\354\266\022\141\076\151\042\031\142\065
\044\266\325\020\006\251\105\152\044\052\365\047\214\170\074\310
\271\363\005\154\305\002\003\322\116\200\144\354\206\253\170\224
\042\002\000\265\150\233\324\345\125\137\340\310\200\060\347\013
\277\153\327\004\216\116\171\230\160\114\034\046\271\263\250\352
\360\021\242\271\212\123\002\046\165\022\211\341\373\210\116\131
\172\000\321\202\330\026\256\345\266\274\225\045\140\100\167\045
\033\236\357\215\344\375\360\117\063\061\045\277\356\172\012\124
\360\220\070\147\022\173\245\140\332\014\001\211\232\166\207\056
\365\033\103\173\345\347\046\112\373\025\142\253\105\033\173\325
\012\245\115\154\115\253\237\050\110\204\341\203\165\270\030\160
\125\123\333\320\337\051\220\257\071\306\027\225\301\224\305\136
\331\145\137\135\377\156\026\225\230\041\237\136\115\360\315\061
\071\041\003\027\015\221\037\241\125\231\101\354\125\311\273\075

\231\134\233\305\177\321\034\136\352\123\002\003\001\000\001\243
\202\001\247\060\202\001\243\060\017\006\003\125\035\023\001\001
\377\004\005\060\003\001\001\377\060\202\001\040\006\003\125\035
\040\004\202\001\027\060\202\001\023\060\202\001\017\006\011\053
\006\001\004\001\201\223\150\004\060\202\001\000\060\045\006\010
\053\006\001\005\005\007\002\001\026\031\150\164\164\160\072\057
\057\167\167\167\056\141\156\143\145\162\164\056\143\157\155\057
\143\160\163\060\201\326\006\010\053\006\001\005\005\007\002\002
\060\201\311\060\015\026\006\101\116\103\105\122\124\060\003\002
\001\001\032\201\267\101\147\145\156\143\151\141\040\116\157\164
\141\162\151\141\154\040\144\145\040\103\145\162\164\151\146\151
\143\141\143\151\157\156\056\040\114\141\040\144\145\143\154\141
\162\141\143\151\157\156\040\144\145\040\160\162\141\143\164\151
\143\141\163\040\144\145\040\143\145\162\164\151\146\151\141\143
\151\157\156\040\161\165\145\040\162\151\147\145\040\145\154\040
\146\165\156\143\151\157\156\141\155\151\145\156\164\157\040\144
\145\040\154\141\040\160\162\145\163\145\156\164\145\040\141\165
\164\157\162\151\144\141\144\040\163\145\040\145\156\143\165\145
\156\164\162\141\040\144\151\163\160\157\156\151\142\154\145\040
\145\156\040\150\164\164\160\072\057\057\167\167\167\056\141\156
\143\145\162\164\056\143\157\155\057\143\160\163\060\016\006\003
\125\035\017\001\001\377\004\004\003\002\001\206\060\034\006\003
\125\035\021\004\025\060\023\201\021\141\156\143\145\162\164\100
\141\156\143\145\162\164\056\143\157\155\060\037\006\003\125\035
\043\004\030\060\026\200\024\354\127\237\310\166\042\157\314\072
\256\133\360\055\241\142\130\321\215\002\314\060\035\006\003\125
\035\016\004\026\004\024\354\127\237\310\166\042\157\314\072\256
\133\360\055\241\142\130\321\215\002\314\060\015\006\011\052\206
\110\206\367\015\001\001\005\005\000\003\202\001\001\000\213\075
\337\334\066\054\177\047\234\374\265\130\123\161\012\022\135\020
\144\121\161\265\112\126\364\136\104\147\036\357\035\262\361\244
\121\074\147\154\054\145\226\172\241\022\243\257\013\010\067\016
\231\326\156\050\207\013\142\253\116\170\116\162\201\233\337\021
\117\211\140\310\121\246\033\006\011\161\163\174\067\267\034\070
\067\232\371\207\341\357\241\356\177\327\300\352\071\024\372\174
\157\013\371\206\312\346\305\167\151\240\237\215\051\243\167\156
\305\314\332\366\335\006\172\323\151\146\076\140\073\343\062\337
\256\360\033\236\052\235\314\204\337\032\020\107\355\245\126\226
\102\067\265\055\162\015\101\022\223\272\062\210\104\310\256\011
\304\275\200\355\375\140\017\162\262\266\144\366\143\040\062\160
\167\207\056\063\056\237\065\310\137\250\222\126\267\377\044\072
\054\135\362\046\005\150\031\362\121\147\317\337\122\011\351\202
\004\172\153\202\247\177\345\322\251\164\153\030\046\310\272\324
\325\036\245\113\073\046\301\235\042\341\373\022\275\325\142\106
\325\327\135\322\335\303\374\141\015\060\005\117\005\213
END
CKA_NSS_MOZILLA_CA_POLICY

```
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER
 CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Trust for "ANCERT Certificados CGN"
# Issuer: CN=ANCERT Certificados CGN,O=Agencia Notarial de Certificacion S.L. Unipersonal - CIF
B83395988,C=ES
# Serial Number:44:74:ec:c8:6c:72:1e:58:dd:b8:2c:7e:f4:fc:95
# Subject: CN=ANCERT Certificados CGN,O=Agencia Notarial de Certificacion S.L. Unipersonal - CIF
B83395988,C=ES
# Not Valid Before: Wed Feb 11 17:27:12 2004
# Not Valid After: Sun Feb 11 17:27:12 2024
# Fingerprint (MD5): 1c:4b:e2:c6:2d:b9:ac:31:14:f4:40:07:69:cb:1f:40
# Fingerprint (SHA1): 11:c5:b5:f7:55:52:b0:11:66:9c:2e:97:17:de:6d:9b:ff:5f:a8:10
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ANCERT Certificados CGN"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\021\305\265\367\125\122\260\021\146\234\056\227\027\336\155\233
\377\137\250\020
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\034\113\342\306\055\271\254\061\024\364\100\007\151\313\037\100
END
CKA_ISSUER
 MULTILINE_OCTAL
\060\174\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\113\060\111\006\003\125\004\012\023\102\101\147\145\156\143\151
\141\040\116\157\164\141\162\151\141\154\040\144\145\040\103\145
\162\164\151\146\151\143\141\143\151\157\156\040\123\056\114\056
\040\125\156\151\160\145\162\163\157\156\141\154\040\055\040\103
\111\106\040\102\070\063\063\071\065\071\070\070\061\040\060\036
\006\003\125\004\003\023\027\101\116\103\105\122\124\040\103\145
\162\164\151\146\151\143\141\144\157\163\040\103\107\116
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\017\104\164\354\310\154\162\036\130\335\270\054\176\364\374
\225
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
```

```
# Microsoft Code Signing Only Certificate
# Certificate "ANCERT Certificados Notariales"
# Issuer:
 CN=ANCERT Certificados Notariales,O=Agencia Notarial de Certificacion S.L. Unipersonal - CIF
B83395988,C=ES
# Serial Number:f4:cf:89:ea:dd:a4:c6:3e:91:ad:48:0e:2d:22:36:84
# Subject: CN=ANCERT Certificados Notariales,O=Agencia Notarial de Certificacion S.L. Unipersonal - CIF
B83395988,C=ES
# Not Valid Before: Wed Feb 11 15:58:30 2004
# Not Valid After: Sun Feb 11 15:58:26 2024
# Fingerprint (MD5): 45:f7:50:11:4e:c5:ad:bd:53:68:86:63:ec:7b:6a:e1
# Fingerprint (SHA1): c0:9a:b0:c8:ad:71:14:71:4e:d5:e2:1a:5a:27:6a:dc:d5:e7:ef:cb
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ANCERT Certificados Notariales"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\203\061\013\060\011\006\003\125\004\006\023\002\105\123
\061\113\060\111\006\003\125\004\012\023\102\101\147\145\156\143
\151\141\040\116\157\164\141\162\151\141\154\040\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\156\040\123\056\114
\056\040\125\156\151\160\145\162\163\157\156\141\154\040\055\040
\103\111\106\040\102\070\063\063\071\065\071\070\070\061\047\060
\045\006\003\125\004\003\023\036\101\116\103\105\122\124\040\103
\145\162\164\151\146\151\143\141\144\157\163\040\116\157\164\141
\162\151\141\154\145\163
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\203\061\013\060\011\006\003\125\004\006\023\002\105\123
\061\113\060\111\006\003\125\004\012\023\102\101\147\145\156\143
\151\141\040\116\157\164\141\162\151\141\154\040\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\156\040\123\056\114
\056\040\125\156\151\160\145\162\163\157\156\141\154\040\055\040
\103\111\106\040\102\070\063\063\071\065\071\070\070\061\047\060
\045\006\003\125\004\003\023\036\101\116\103\105\122\124\040\103
\145\162\164\151\146\151\143\141\144\157\163\040\116\157\164\141
\162\151\141\154\145\163
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\364\317\211\352\335\244\306\076\221\255\110\016\055
\042\066\204
END
CKA_VALUE
```

MULTILINE_OCTAL

\060\202\005\074\060\202\004\044\240\003\002\001\002\002\021\000
\364\317\211\352\335\244\306\076\221\255\110\016\055\042\066\204
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\201\203\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\113\060\111\006\003\125\004\012\023\102\101\147\145\156\143\151
\141\040\116\157\164\141\162\151\141\154\040\144\145\040\103\145
\162\164\151\146\151\143\141\143\151\157\156\040\123\056\114\056
\040\125\156\151\160\145\162\163\157\156\141\154\040\055\040\103
\111\106\040\102\070\063\063\071\065\071\070\070\061\047\060\045
\006\003\125\004\003\023\036\101\116\103\105\122\124\040\103\145
\162\164\151\146\151\143\141\144\157\163\040\116\157\164\141\162
\151\141\154\145\163\060\036\027\015\060\064\060\062\061\061\061
\065\065\070\063\060\132\027\015\062\064\060\062\061\061\061\065
\065\070\062\066\132\060\201\203\061\013\060\011\006\003\125\004
\006\023\002\105\123\061\113\060\111\006\003\125\004\012\023\102
\101\147\145\156\143\151\141\040\116\157\164\141\162\151\141\154
\040\144\145\040\103\145\162\164\151\146\151\143\141\143\151\157
\156\040\123\056\114\056\040\125\156\151\160\145\162\163\157\156
\141\154\040\055\040\103\111\106\040\102\070\063\063\071\065\071
\070\070\061\047\060\045\006\003\125\004\003\023\036\101\116\103
\105\122\124\040\103\145\162\164\151\146\151\143\141\144\157\163
\040\116\157\164\141\162\151\141\154\145\163\060\202\001\042\060
\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202
\001\017\000\060\202\001\012\002\202\001\001\000\360\221\017\320
\147\055\051\262\143\115\037\065\171\366\145\153\271\363\363\265
\130\223\047\144\117\247\325\133\202\005\162\233\177\035\256\010
\322\214\320\321\311\140\260\231\031\065\326\031\306\000\071\151
\175\042\357\164\042\203\264\176\352\020\213\076\063\034\341\335
\144\066\051\363\122\112\156\101\303\276\121\014\037\143\270\277
\215\251\077\061\061\073\273\361\066\104\074\047\145\024\171\165
\346\020\244\074\130\033\313\123\142\022\365\207\132\106\242\171
\243\140\343\026\250\336\204\246\372\345\314\304\020\062\366\102
\332\107\115\030\075\346\172\017\053\016\143\377\147\175\103\325
\164\026\220\064\264\017\316\046\163\041\301\112\332\144\344\117
\343\043\265\331\366\253\267\112\177\226\341\313\107\375\006\103
\321\224\064\151\012\376\075\350\146\252\046\014\325\143\071\006
\160\223\255\174\263\344\107\301\073\107\216\151\227\014\221\240
\114\007\217\311\200\114\256\160\223\150\217\241\303\042\302\361
\165\233\050\175\222\222\125\072\250\131\031\354\022\061\034\357
\235\027\334\271\100\011\133\364\055\023\046\163\002\003\001\000
\001\243\202\001\247\060\202\001\243\060\034\006\003\125\035\021
\004\025\060\023\201\021\141\156\143\145\162\164\100\141\156\143
\145\162\164\056\143\157\155\060\037\006\003\125\035\043\004\030
\060\026\200\024\204\367\372\162\136\210\144\146\035\050\214\260
\167\275\014\152\237\114\115\142\060\017\006\003\125\035\023\001
\001\377\004\005\060\003\001\001\377\060\202\001\040\006\003\125
\035\040\004\202\001\027\060\202\001\023\060\202\001\017\006\011

\053\006\001\004\001\201\223\150\001\060\202\001\000\060\045\006
\010\053\006\001\005\005\007\002\001\026\031\150\164\164\160\072
\057\057\167\167\167\056\141\156\143\145\162\164\056\143\157\155
\057\143\160\163\060\201\326\006\010\053\006\001\005\005\007\002
\002\060\201\311\060\015\026\006\101\116\103\105\122\124\060\003
\002\001\001\032\201\267\101\147\145\156\143\151\141\040\116\157
\164\141\162\151\141\154\040\144\145\040\103\145\162\164\151\146
\151\143\141\143\151\157\156\056\040\114\141\040\144\145\143\154
\141\162\141\143\151\157\156\040\144\145\040\160\162\141\143\164
\151\143\141\163\040\144\145\040\143\145\162\164\151\146\151\141
\143\151\157\156\040\161\165\145\040\162\151\147\145\040\145\154
\040\146\165\156\143\151\157\156\141\155\151\145\156\164\157\040
\144\145\040\154\141\040\160\162\145\163\145\156\164\145\040\141
\165\164\157\162\151\144\141\144\040\163\145\040\145\156\143\165
\145\156\164\162\141\040\144\151\163\160\157\156\151\142\154\145
\040\145\156\040\150\164\164\160\072\057\057\167\167\167\056\141
\156\143\145\162\164\056\143\157\155\057\143\160\163\060\016\006
\003\125\035\017\001\001\377\004\004\003\002\001\206\060\035\006
\003\125\035\016\004\026\004\024\204\367\372\162\136\210\144\146
\035\050\214\260\167\275\014\152\237\114\115\142\060\015\006\011
\052\206\110\206\367\015\001\001\005\005\000\003\202\001\001\000
\057\370\345\330\063\245\302\224\156\136\300\361\356\241\114\012
\255\206\017\300\063\335\236\322\331\233\356\305\053\205\051\166
\254\245\022\123\223\035\252\007\354\351\071\144\013\150\360\165
\044\351\321\206\214\234\123\152\353\025\241\011\267\031\007\271
\235\217\002\262\033\111\160\302\143\164\335\013\252\376\007\306
\067\126\306\203\376\300\117\034\314\070\252\375\356\125\230\211
\134\302\123\255\040\207\272\026\144\122\141\354\301\237\273\324
\142\321\052\310\135\360\053\370\332\022\316\043\313\261\314\301
\322\012\275\374\300\200\116\125\111\372\211\330\144\243\112\312
\356\213\327\345\355\222\373\140\342\342\052\317\055\050\076\246
\377\200\234\145\314\022\236\245\034\164\131\220\245\207\177\147
\025\200\020\300\241\321\250\060\354\241\002\221\212\132\323\043
\027\223\132\107\041\171\352\063\172\017\177\070\065\232\312\126
\270\277\144\272\247\260\265\121\035\026\236\216\211\175\070\072
\313\204\115\007\230\330\345\341\214\005\152\245\067\014\326\171
\051\076\361\102\304\266\367\352\031\240\141\340\002\116\277\022
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "ANCERT Certificados Notariales"
Issuer: CN=ANCERT Certificados Notariales,O=Agencia Notarial de Certificacion S.L. Unipersonal - CIF B83395988,C=ES
Serial Number:f4:cf:89:ea:dd:a4:c6:3e:91:ad:48:0e:2d:22:36:84

```
# Subject: CN=ANCERT Certificados Notariales,O=Agencia
 Notarial de Certificacion S.L. Unipersonal - CIF B83395988,C=ES
# Not Valid Before: Wed Feb 11 15:58:30 2004
# Not Valid After: Sun Feb 11 15:58:26 2024
# Fingerprint (MD5): 45:f7:50:11:4e:c5:ad:bd:53:68:86:63:ec:7b:6a:e1
# Fingerprint (SHA1): c0:9a:b0:c8:ad:71:14:71:4e:d5:e2:1a:5a:27:6a:dc:d5:e7:ef:cb
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ANCERT Certificados Notariales"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\300\232\260\310\255\161\024\161\116\325\342\032\132\047\152\334
\325\347\357\313
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\105\367\120\021\116\305\255\275\123\150\206\143\354\173\152\341
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\203\061\013\060\011\006\003\125\004\006\023\002\105\123
\061\113\060\111\006\003\125\004\012\023\102\101\147\145\156\143
\151\141\040\116\157\164\141\162\151\141\154\040\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\156\040\123\056\114
\056\040\125\156\151\160\145\162\163\157\156\141\154\040\055\040
\103\111\106\040\102\070\063\063\071\065\071\070\070\061\047\060
\045\006\003\125\004\003\023\036\101\116\103\105\122\124\040\103
\145\162\164\151\146\151\143\141\144\157\163\040\116\157\164\141
\162\151\141\154\145\163
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\021\000\364\317\211\352\335\244\306\076\221\255\110\016\055
\042\066\204
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "ANCERT Corporaciones de Derecho Publico"
# Issuer: CN=ANCERT Corporaciones de Derecho Publico,O=Agencia Notarial de Certificacion S.L. Unipersonal -
CIF B83395988,C=ES
# Serial Number:3f:b2:e5:f2:d1:7c:8b:18:64:56:62:a9:39:81:7f:a7
# Subject: CN=ANCERT Corporaciones de Derecho Publico,O=Agencia Notarial de Certificacion
 S.L. Unipersonal - CIF B83395988,C=ES
# Not Valid Before: Wed Feb 11 17:22:45 2004
# Not Valid After: Sun Feb 11 17:22:45 2024
```

```
# Fingerprint (MD5): 20:6b:d6:8b:4a:8f:48:ab:e4:88:09:0d:e5:65:1a:50
# Fingerprint (SHA1): 0c:fd:83:db:ae:44:b9:a0:c8:f6:76:f3:b5:70:65:0b:94:b6:9d:bf
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ANCERT Corporaciones de Derecho Publico"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\214\061\013\060\011\006\003\125\004\006\023\002\105\123
\061\113\060\111\006\003\125\004\012\023\102\101\147\145\156\143
\151\141\040\116\157\164\141\162\151\141\154\040\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\156\040\123\056\114
\056\040\125\156\151\160\145\162\163\157\156\141\154\040\055\040
\103\111\106\040\102\070\063\063\071\065\071\070\070\061\060\060
\056\006\003\125\004\003\023\047\101\116\103\105\122\124\040\103
\157\162\160\157\162\141\143\151\157\156\145\163\040\144\145\040
\104\145\162\145\143\150\157\040\120\165\142\154\151\143\157
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\214\061\013\060\011\006\003\125\004\006\023\002\105\123
\061\113\060\111\006\003\125\004\012\023\102\101\147\145\156\143
\151\141\040\116\157\164\141\162\151\141\154\040\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\156\040\123\056\114
\056\040\125\156\151\160\145\162\163\157\156\141\154\040\055\040
\103\111\106\040\102\070\063\063\071\065\071\070\070\061\060\060
\056\006\003\125\004\003\023\047\101\116\103\105\122\124\040\103
\157\162\160\157\162\141\143\151\157\156\145\163\040\144\145\040
\104\145\162\145\143\150\157\040\120\165\142\154\151\143\157
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\077\262\345\362\321\174\213\030\144\126\142\251\071\201
\177\247
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\115\060\202\004\065\240\003\002\001\002\002\020\077
\262\345\362\321\174\213\030\144\126\142\251\071\201\177\247\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\201
\214\061\013\060\011\006\003\125\004\006\023\002\105\123\061\113
\060\111\006\003\125\004\012\023\102\101\147\145\156\143\151\141
\040\116\157\164\141\162\151\141\154\040\144\145\040\103\145\162
\164\151\146\151\143\141\143\151\157\156\040\123\056\114\056\040
\125\156\151\160\145\162\163\157\156\141\154\040\055\040\103\111
\106\040\102\070\063\063\071\065\071\070\070\061\060\060\056\006
\003\125\004\003\023\047\101\116\103\105\122\124\040\103\157\162
\160\157\162\141\143\151\157\156\145\163\040\144\145\040\104\145
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\162\145\143\150\157\040\120\165\142\154\151\143\157\060\036\027
\015\060\064\060\062\061\061\061\067\062\062\064\065\132\027\015
\062\064\060\062\061\061\061\067\062\062\064\065\132\060\201\214
\061\013\060\011\006\003\125\004\006\023\002\105\123\061\113\060
\111\006\003\125\004\012\023\102\101\147\145\156\143\151\141\040
\116\157\164\141\162\151\141\154\040\144\145\040\103\145\162\164
\151\146\151\143\141\143\151\157\156\040\123\056\114\056\040\125
\156\151\160\145\162\163\157\156\141\154\040\055\040\103\111\106
\040\102\070\063\063\071\065\071\070\070\061\060\060\056\006\003
\125\004\003\023\047\101\116\103\105\122\124\040\103\157\162\160
\157\162\141\143\151\157\156\145\163\040\144\145\040\104\145\162
\145\143\150\157\040\120\165\142\154\151\143\157\060\202\001\042
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\001\017\000\060\202\001\012\002\202\001\001\000\242\041\225
\207\334\212\353\326\172\220\250\150\065\375\027\374\164\072\124
\020\222\065\223\102\165\056\330\076\313\251\224\241\276\152\067
\077\122\272\244\173\332\204\231\026\171\116\000\150\324\037\023
\351\106\073\074\112\235\203\072\330\041\357\302\362\100\105\341
\017\140\105\004\355\374\212\030\056\371\075\344\244\021\062\040
\216\072\267\356\226\100\025\032\231\351\041\235\162\254\315\037
\211\256\252\331\241\100\260\250\147\276\374\172\016\107\261\136
\274\370\060\152\216\067\237\005\102\354\054\303\246\033\213\253
\304\120\075\372\344\163\365\041\260\270\125\137\207\340\242\107
\070\057\100\137\117\154\253\224\044\126\343\114\217\176\220\351
\047\202\050\233\230\272\232\326\265\233\127\157\153\025\034\371
\273\160\051\175\074\367\023\250\321\161\361\260\376\210\105\161
\251\245\164\145\313\303\371\365\003\017\020\303\206\060\000\156
\301\300\046\242\210\376\041\307\062\075\273\306\173\033\267\233
\212\263\372\261\174\161\331\001\247\102\220\252\057\230\220\204
\252\336\306\255\354\074\121\112\005\035\001\121\233\002\003\001
\000\001\243\202\001\247\060\202\001\243\060\017\006\003\125\035
\023\001\001\377\004\005\060\003\001\001\377\060\202\001\040\006
\003\125\035\040\004\202\001\027\060\202\001\023\060\202\001\017
\006\011\053\006\001\004\001\201\223\150\003\060\202\001\000\060
\045\006\010\053\006\001\005\005\007\002\001\026\031\150\164\164
\160\072\057\057\167\167\167\056\141\156\143\145\162\164\056\143
\157\155\057\143\160\163\060\201\326\006\010\053\006\001\005\005
\007\002\002\060\201\311\060\015\026\006\101\116\103\105\122\124
\060\003\002\001\001\032\201\267\101\147\145\156\143\151\141\040
\116\157\164\141\162\151\141\154\040\144\145\040\103\145\162\164
\151\146\151\143\141\143\151\157\156\056\040\114\141\040\144\145
\143\154\141\162\141\143\151\157\156\040\144\145\040\160\162\141
\143\164\151\143\141\163\040\144\145\040\143\145\162\164\151\146
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\145\154\040\146\165\156\143\151\157\156\141\155\151\145\156\164
\157\040\144\145\040\154\141\040\160\162\145\163\145\156\164\145
\040\141\165\164\157\162\151\144\141\144\040\163\145\040\145\156
\143\165\145\156\164\162\141\040\144\151\163\160\157\156\151\142

\154\145\040\145\156\040\150\164\164\160\072\057\057\167\167\167
\056\141\156\143\145\162\164\056\143\157\155\057\143\160\163\060
\016\006\003\125\035\017\001\001\377\004\004\003\002\001\206\060
\034\006\003\125\035\021\004\025\060\023\201\021\141\156\143\145
\162\164\100\141\156\143\145\162\164\056\143\157\155\060\037\006
\003\125\035\043\004\030\060\026\200\024\214\114\036\067\014\261
\237\322\254\104\013\072\276\002\317\364\215\055\146\225\060\035
\006\003\125\035\016\004\026\004\024\214\114\036\067\014\261\237
\322\254\104\013\072\276\002\317\364\215\055\146\225\060\015\006
\011\052\206\110\206\367\015\001\001\005\005\000\003\202\001\001
\000\107\164\300\224\221\342\245\373\230\122\104\223\154\304\300
\035\340\171\333\151\144\055\141\256\244\167\221\065\265\267\312
\227\252\300\261\206\365\033\150\153\252\130\262\174\077\347\003
\047\370\101\161\274\246\322\040\251\200\225\242\107\255\155\106
\164\255\204\233\330\157\251\365\271\057\155\233\300\335\231\207
\355\131\262\165\201\245\211\205\052\314\320\205\201\115\363\257
\167\336\214\301\050\232\102\254\005\207\014\064\234\161\207\375
\354\001\024\037\276\303\056\360\337\372\044\246\135\037\074\361
\242\013\121\210\001\256\022\207\244\265\135\161\262\337\357\015
\174\040\343\177\023\013\115\246\300\167\314\077\326\017\161\307
\161\114\056\036\372\031\006\145\311\255\126\154\167\215\106\077
\275\060\203\036\340\056\125\270\170\043\164\074\130\012\143\072
\115\201\173\157\065\160\256\266\045\331\366\044\376\043\306\332
\032\210\257\250\024\223\163\340\300\133\260\061\151\032\366\051
\137\126\267\032\012\302\371\013\352\002\301\063\021\142\152\174
\103\350\352\032\253\220\000\205\340\105\017\175\216\272\120\325
\306
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "ANCERT Corporaciones de Derecho Publico"
Issuer: CN=ANCERT Corporaciones de Derecho Publico,O=Agencia Notarial de Certificacion S.L. Unipersonal - CIF B83395988,C=ES
Serial Number:3f:b2:e5:f2:d1:7c:8b:18:64:56:62:a9:39:81:7f:a7
Subject: CN=ANCERT Corporaciones de Derecho Publico,O=Agencia Notarial de Certificacion S.L. Unipersonal - CIF B83395988,C=ES
Not Valid
Before: Wed Feb 11 17:22:45 2004
Not Valid After: Sun Feb 11 17:22:45 2024
Fingerprint (MD5): 20:6b:d6:8b:4a:8f:48:ab:e4:88:09:0d:e5:65:1a:50
Fingerprint (SHA1): 0c:fd:83:db:ae:44:b9:a0:c8:f6:76:f3:b5:70:65:0b:94:b6:9d:bf
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ANCERT Corporaciones de Derecho Publico"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\014\375\203\333\256\104\271\240\310\366\166\363\265\160\145\013
\224\266\235\277
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\040\153\326\213\112\217\110\253\344\210\011\015\345\145\032\120
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\214\061\013\060\011\006\003\125\004\006\023\002\105\123
\061\113\060\111\006\003\125\004\012\023\102\101\147\145\156\143
\151\141\040\116\157\164\141\162\151\141\154\040\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\156\040\123\056\114
\056\040\125\156\151\160\145\162\163\157\156\141\154\040\055\040
\103\111\106\040\102\070\063\063\071\065\071\070\070\061\060\060
\056\006\003\125\004\003\023\047\101\116\103\105\122\124\040\103
\157\162\160\157\162\141\143\151\157\156\145\163\040\144\145\040
\104\145\162\145\143\150\157\040\120\165\142\154\151\143\157
END
CKA_SERIAL_NUMBER
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\002\020\077\262\345\362\321\174\213\030\144\126\142\251\071\201
\177\247
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "GLOBALTRUST"
# Issuer: 1.2.840.113549.1.9.1=info@globaltrust.info,CN=GLOBALTRUST,OU=GLOBALTRUST Certification
Service,O=ARGE DATEN - Austrian Society for Data Protection,ST=Austria,L=Vienna,C=AT
# Serial Number: 0 (0x0)
# Subject: 1.2.840.113549.1.9.1=info@globaltrust.info,CN=GLOBALTRUST,OU=GLOBALTRUST Certification
Service,O=ARGE DATEN - Austrian Society
 for Data Protection,ST=Austria,L=Vienna,C=AT
# Not Valid Before: Mon Aug 07 14:12:35 2006
# Not Valid After: Thu Sep 18 14:12:35 2036
# Fingerprint (MD5): df:0d:bc:7c:c8:36:b7:76:99:a1:ab:f0:d2:0f:89:6a
# Fingerprint (SHA1): 34:2c:d9:d3:06:2d:a4:8c:34:69:65:29:7f:08:1e:bc:2e:f6:8f:dc
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GLOBALTRUST"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
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CKA_SUBJECT MULTILINE_OCTAL
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\141\061\020\060\016\006\003\125\004\010\023\007\101\165\163\164
\162\151\141\061\072\060\070\006\003\125\004\012\023\061\101\122
\107\105\040\104\101\124\105\116\040\055\040\101\165\163\164\162
\151\141\156\040\123\157\143\151\145\164\171\040\146\157\162\040
\104\141\164\141\040\120\162\157\164\145\143\164\151\157\156\061
\052\060\050\006\003\125\004\013\023\041\107\114\117\102\101\114
\124\122\125\123\124\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\123\145\162\166\151\143\145\061\024\060\022\006
\003\125\004\003\023\013\107\114\117\102\101\114\124\122\125\123
\124\061\044\060\042\006\011\052\206\110\206\367\015\001\011\001
\026\025\151\156\146\157\100\147\154\157\142\141\154\164\162\165
\163\164\056\151\156\146\157
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\324\061\013\060\011\006\003\125\004\006\023\002\101\124
\061\017\060\015\006\003\125\004\007\023\006\126\151\145\156\156
\141\061\020\060\016\006\003\125\004\010\023\007\101\165\163\164
\162\151\141\061\072\060\070\006\003\125\004\012\023\061\101\122
\107\105\040\104\101\124\105\116\040\055\040\101\165\163\164\162
\151\141\156\040\123\157\143\151\145\164\171\040\146\157\162\040
\104\141\164\141\040\120\162\157\164\145\143\164\151\157\156\061
\052\060\050\006\003\125\004\013\023\041\107\114\117\102\101\114
\124\122\125\123\124\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\123\145\162\166\151\143\145\061\024\060\022\006
\003\125\004\003\023\013\107\114\117\102\101\114\124\122\125\123
\124\061\044\060\042\006\011\052\206\110\206\367\015\001\011\001
\026\025\151\156\146\157\100\147\154\157\142\141\154\164\162\165
\163\164\056\151\156\146\157
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\007\376\060\202\005\346\240\003\002\001\002\002\001\000
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\201\324\061\013\060\011\006\003\125\004\006\023\002\101\124\061
\017\060\015\006\003\125\004\007\023\006\126\151\145\156\156\141
\061\020\060\016\006\003\125\004\010\023\007\101\165\163\164\162
\151\141\061\072\060\070\006\003\125\004\012\023\061\101\122\107
\105\040\104\101\124\105\116\040\055\040\101\165\163\164\162\151
\141\156\040\123\157\143\151\145\164\171\040\146\157\162\040\104
\141\164\141\040\120\162\157\164\145\143\164\151\157\156\061\052

\060\050\006\003\125\004\013\023\041\107\114\117\102\101\114\124
\122\125\123\124\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\123\145\162\166\151\143\145\061\024\060\022\006\003
\125\004\003\023\013\107\114\117\102\101\114\124\122\125\123\124
\061\044\060\042\006\011\052\206\110\206\367\015\001\011\001\026
\025\151\156\146\157\100\147\154\157\142\141\154\164\162\165\163
\164\056\151\156\146\157\060\036\027\015\060\066\060\070\060\067
\061\064\061\062\063\065\132\027\015\063\066\060\071\061\070\061
\064\061\062\063\065\132\060\201\324\061\013\060\011\006\003\125
\004\006\023\002\101\124\061\017\060\015\006\003\125\004\007\023
\006\126\151\145\156\156\141\061\020\060\016\006\003\125\004\010
\023\007\101\165\163\164\162\151\141\061\072\060\070\006\003\125
\004\012\023\061\101\122\107\105\040\104\101\124\105\116\040\055
\040\101\165\163\164\162\151\141\156\040\123\157\143\151\145\164
\171\040\146\157\162\040\104\141\164\141\040\120\162\157\164\145
\143\164\151\157\156\061\052\060\050\006\003\125\004\013\023\041
\107\114\117\102\101\114\124\122\125\123\124\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\123\145\162\166\151\143
\145\061\024\060\022\006\003\125\004\003\023\013\107\114\117\102
\101\114\124\122\125\123\124\061\044\060\042\006\011\052\206\110
\206\367\015\001\011\001\026\025\151\156\146\157\100\147\154\157
\142\141\154\164\162\165\163\164\056\151\156\146\157\060\202\002
\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000
\003\202\002\017\000\060\202\002\012\002\202\002\001\000\322\022
\107\354\137\230\350\015\206\025\111\304\335\354\236\361\154\315
\121\266\373\225\117\213\304\220\075\123\063\261\323\023\305\110
\342\245\277\365\364\003\204\017\234\170\161\366\222\227\361\133
\131\165\030\077\047\013\121\057\134\150\307\241\353\000\363\366
\225\075\151\303\176\302\254\304\012\066\162\172\133\246\320\367
\001\173\050\307\052\307\062\140\356\131\270\327\013\047\335\263
\105\005\053\173\144\247\163\134\350\223\002\227\150\354\374\204
\333\236\324\325\201\107\306\234\300\254\227\313\031\352\207\245
\012\243\270\165\044\347\120\047\015\253\026\371\126\135\261\201
\001\026\175\363\351\341\044\363\010\041\271\272\254\135\236\307
\110\171\177\152\312\337\071\167\004\155\033\156\072\315\177\316
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\231\006\276\362\347\236\244\155\213\073\153\014\201\356\264\157
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\211\243\016\035\225\331\003\324\041\014\335\126\010\111\145\310
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\031\130\322\005\311\331\051\066\045\376\167\356\153\131\124\117
\010\024\242\231\011\105\127\255\007\336\042\374\207\034\240\357
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\134\225\111\333\301\017\224\024\305\325\142\033\231\253\070\325
\147\156\322\251\031\341\132\072\207\152\110\077\221\226\343\306
\305\047\153\127\164\061\230\366\076\161\161\355\176\336\260\115
\054\363\356\217\333\173\150\327\020\104\051\255\354\253\120\131
\122\232\154\152\162\024\115\026\024\121\367\327\176\037\002\003
\001\000\001\243\202\001\327\060\202\001\323\060\035\006\003\125
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\353\300\041\122\246\004\356\046\313\244\060\202\001\001\006\003
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\201\332\244\201\327\060\201\324\061\013\060\011\006\003\125\004
\006\023\002\101\124\061\017\060\015\006\003\125\004\007\023\006
\126\151\145\156\156\141\061\020\060\016\006\003\125\004\010\023
\007\101\165\163\164\162\151\141\061\072\060\070\006\003\125\004
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\101\165\163\164\162\151\141\156\040\123\157\143\151\145\164\171
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\061\024\060\022\006\003\125\004\003\023\013\107\114\117\102\101
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\146\157\206\033\150\164\164\160\072\057\057\167\167\167\056\147
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\112\372\050\245\326\007\245\044\110\316\236\171\350\171\232\134
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\042\215\273\214\005\155\256\145\273\207\271\176\166\073\050\143
\152\326\157\063\060\210\176\125\005\272\271\025\003\230\035\142
\322\316\300\017\156\034\232\064\356\344\257\037\142\321\354\264
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\217\337\103\077\327\275\077\305\036\305\255\041\254\207\054\232

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\220\327\200\106\013\064\066\336\357\021\311\134\042\106\302\074
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\306\065\053\041\164\260\211\220\124\344\001\210\134\234\205\052
\232\145\136\113\127\362\200\034\354\147\064\232\106\334\002\166
\376\162\067\162\011\261\360\043\217\130\263\002\175\356\170\016
\271\075\163\022\055\125\237\027\143\257\256\330\256\163\266\307
\120\152\205\301\333\175\373\224\131\160\306\303\007\154\126\305
\260\007\374\116\175\223\035\271\047\300\260\225\325\347\174\005
\274\367\017\012\263\364\156\025\127\111\033\265\024\000\244\060
\053\132\364\126\130\277\166\064\242\075\376\001\046\360\335\270
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\322\121\373\065\170\166\332\167\203\067\101\076\055\106\250\176
\206\336\126\364\312\220\236\264\255\260\036\105\030\074\064\210
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\105\140\057\054\165\305\310\055\210\113\046\273\160\356\073\177
\001\055
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "GLOBALTRUST"
Issuer: 1.2.840.113549.1.9.1=info@globaltrust.info,CN=GLOBALTRUST,OU=GLOBALTRUST
Certification Service,O=ARGE DATEN - Austrian Society for Data Protection,ST=Austria,L=Vienna,C=AT
Serial Number: 0 (0x0)
Subject: 1.2.840.113549.1.9.1=info@globaltrust.info,CN=GLOBALTRUST,OU=GLOBALTRUST Certification
Service,O=ARGE DATEN - Austrian Society for Data Protection,ST=Austria,L=Vienna,C=AT
Not Valid Before: Mon Aug 07 14:12:35 2006
Not Valid After: Thu Sep 18 14:12:35 2036
Fingerprint (MD5): df:0d:bc:7c:c8:36:b7:76:99:a1:ab:f0:d2:0f:89:6a
Fingerprint (SHA1): 34:2c:d9:d3:06:2d:a4:8c:34:69:65:29:7f:08:1e:bc:2e:f6:8f:dc
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GLOBALTRUST"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\064\054\331\323\006\055\244\214\064\151\145\051\177\010\036\274

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\056\366\217\334
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\337\015\274\174\310\066\267\166\231\241\253\360\322\017\211\152
END
CKA_ISSUER MULTILINE_OCTAL
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\061\017\060\015\006\003\125\004\007\023\006\126\151\145\156\156
\141\061\020\060\016\006\003\125\004\010\023\007\101\165\163\164
\162\151\141\061\072\060\070\006\003\125\004\012\023\061\101\122
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\151\141\156\040\123\157\143\151\145\164\171\040\146\157\162\040
\104\141\164\141\040\120\162\157\164\145\143\164\151\157\156\061
\052\060\050\006\003\125\004\013\023\041\107\114\117\102\101\114
\124\122\125\123\124\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\123\145\162\166\151\143\145\061\024\060\022\006
\003\125\004\003\023\013\107\114\117\102\101\114\124\122\125\123
\124\061\044\060\042\006\011\052\206\110\206\367\015\001\011\001
\026\025\151\156\146\157\100\147\154\157\142\141\154\164\162\165
\163\164\056\151\156\146\157
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST
 CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Certipost E-Trust TOP Root CA"
# Issuer: CN=Certipost E-Trust TOP Root CA,O=Certipost s.a./n.v.,C=BE
# Serial Number:04:00:00:00:00:01:05:52:64:c1:95
# Subject: CN=Certipost E-Trust TOP Root CA,O=Certipost s.a./n.v.,C=BE
# Not Valid Before: Tue Jul 26 10:00:00 2005
# Not Valid After: Sat Jul 26 10:00:00 2025
# Fingerprint (MD5): b8:d3:12:03:4e:8c:0c:5a:47:c9:b6:c5:9e:5b:97:fd
# Fingerprint (SHA1): 05:60:a2:c7:38:ff:98:d1:17:2a:94:fe:45:fb:8a:47:d6:65:37:1e
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certipost E-Trust TOP Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\123\061\013\060\011\006\003\125\004\006\023\002\102\105\061
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\034\060\032\006\003\125\004\012\023\023\103\145\162\164\151\160
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\044\006\003\125\004\003\023\035\103\145\162\164\151\160\157\163
\164\040\105\055\124\162\165\163\164\040\124\117\120\040\122\157
\157\164\040\103\101
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
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\034\060\032\006\003\125\004\012\023\023\103\145\162\164\151\160
\157\163\164\040\163\056\141\056\057\156\056\166\056\061\046\060
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\164\040\105\055\124\162\165\163\164\040\124\117\120\040\122\157
\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
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END
CKA_VALUE MULTILINE_OCTAL
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\110\206\367\015\001\001\005\005\000\060\123\061\013\060\011\006
\003\125\004\006\023\002\102\105\061\034\060\032\006\003\125\004
\012\023\023\103\145\162\164\151\160\157\163\164\040\163\056\141
\056\057\156\056\166\056\061\046\060\044\006\003\125\004\003\023
\035\103\145\162\164\151\160\157\163\164\040\105\055\124\162\165
\163\164\040\124\117\120\040\122\157\157\164\040\103\101\060\036
\027\015\060\065\060\067\062\066\061\060\060\060\060\060\132\027
\015\062\065\060\067\062\066\061\060\060\060\060\060\132\060\123
\061\013\060\011\006\003\125\004\006\023\002\102\105\061\034\060
\032\006\003\125\004\012\023\023\103\145\162\164\151\160\157\163
\164\040\163\056\141\056\057\156\056\166\056\061\046\060\044\006
\003\125\004\003\023\035\103\145\162\164\151\160\157\163\164\040
\105\055\124\162\165\163\164\040\124\117\120\040\122\157\157\164
\040\103\101\060\202\001\042\060\015\006\011\052\206\110\206\367
\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002
\202\001\001\000\245\324\113\100\326\373\361\065\030\073\242\260
\103\344\311\125\241\300\007\273\010\276\072\031\265\043\303\036
\235\263\010\112\364\103\113\351\301\031\140\220\337\204\327\130
\306\072\335\012\054\225\054\275\227\177\376\242\165\332\006\343
\253\233\154\321\270\317\104\206\301\122\140\267\334\076\073\260
\362\351\304\121\074\112\271\203\271\116\141\152\003\233\034\122
\200\072\120\264\040\262\333\323\262\306\124\177\313\140\233\310
\044\236\257\011\307\145\015\050\366\332\232\042\302\063\156\362
\363\045\324\244\371\226\365\157\252\074\153\334\101\060\345\346
\157\312\110\037\060\170\035\171\175\247\321\277\256\305\136\103
\371\306\057\203\166\233\064\112\244\050\130\053\250\210\205\104

\152\053\362\126\102\166\231\220\063\252\356\371\041\317\362\075
\371\167\204\313\335\051\204\304\324\212\052\244\071\134\076\371
\034\045\150\115\365\347\233\135\261\032\064\136\312\002\163\371
\010\304\014\155\136\335\022\052\345\173\305\066\170\122\235\062
\301\305\050\245\040\250\345\230\015\271\157\317\271\200\236\345
\276\271\233\375\002\003\001\000\001\243\201\240\060\201\235\060
\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377
\060\035\006\003\125\035\016\004\026\004\024\113\336\276\005\061
\056\363\065\310\330\312\247\126\305\224\015\264\132\145\305\060
\110\006\003\125\035\040\004\101\060\077\060\075\006\011\003\220
\016\007\001\000\001\002\000\060\060\060\056\006\010\053\006\001
\005\005\007\002\001\026\042\150\164\164\160\072\057\057\167\167
\167\056\145\055\164\162\165\163\164\056\142\145\057\103\120\123
\057\121\116\143\145\162\164\163\040\060\021\006\011\140\206\110
\001\206\370\102\001\001\004\004\003\002\000\007\060\015\006\011
\052\206\110\206\367\015\001\001\005\005\000\003\202\001\001\000
\211\143\314\242\316\370\124\152\174\131\064\170\253\001\264\226
\055\052\041\156\100\055\137\320\226\042\231\203\005\034\345\044
\315\342\365\065\004\277\000\226\007\354\262\244\072\152\053\043
\076\311\017\312\023\035\270\044\226\011\046\330\074\052\201\316
\341\201\310\311\163\076\365\273\017\010\036\220\340\260\222\271
\322\072\227\120\340\006\216\344\202\060\074\140\040\267\244\356
\253\211\006\341\374\045\273\221\324\371\267\137\150\143\250\240
\150\206\153\247\354\222\313\042\372\120\133\023\130\047\256\053
\103\013\266\027\306\060\162\004\063\104\046\112\104\007\037\163
\240\203\101\051\340\222\006\274\325\001\352\376\274\257\161\353
\040\037\012\135\015\240\051\136\316\344\101\121\125\226\303\037
\264\061\245\243\363\123\352\377\302\234\206\162\317\066\114\126
\132\006\062\176\136\253\112\241\316\247\353\237\244\214\052\271
\044\213\270\265\363\006\115\246\312\175\231\373\366\125\352\256
\110\171\356\046\131\323\037\014\123\025\367\142\121\371\204\015
\226\154\136\261\010\346\131\010\053\046\051\012\301\203\100\163
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Certipost E-Trust TOP Root CA"
Issuer: CN=Certipost E-Trust TOP
 Root CA,O=Certipost s.a./n.v.,C=BE
Serial Number:04:00:00:00:00:01:05:52:64:c1:95
Subject: CN=Certipost E-Trust TOP Root CA,O=Certipost s.a./n.v.,C=BE
Not Valid Before: Tue Jul 26 10:00:00 2005
Not Valid After: Sat Jul 26 10:00:00 2025
Fingerprint (MD5): b8:d3:12:03:4e:8c:0c:5a:47:c9:b6:c5:9e:5b:97:fd

```
# Fingerprint (SHA1): 05:60:a2:c7:38:ff:98:d1:17:2a:94:fe:45:fb:8a:47:d6:65:37:1e
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certipost E-Trust TOP Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\005\140\242\307\070\377\230\321\027\052\224\376\105\373\212\107
\326\145\067\036
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\270\323\022\003\116\214\014\132\107\311\266\305\236\133\227\375
END
CKA_ISSUER MULTILINE_OCTAL
\060\123\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\034\060\032\006\003\125\004\012\023\023\103\145\162\164\151\160
\157\163\164\040\163\056\141\056\057\156\056\166\056\061\046\060
\044\006\003\125\004\003\023\035\103\145\162\164\151\160\157\163
\164\040\105\055\124\162\165\163\164\040\124\117\120\040\122\157
\157\164\040\103\101
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\013\004\000\000\000\000\001\005\122\144\301\225
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Certipost E-Trust Primary Qualified CA"
# Issuer: CN=Certipost E-Trust Primary Qualified CA,O=Certipost s.a./n.v.,C=BE
# Serial Number:04:00:00:00:00:01:05:52:64:c4:25
# Subject: CN=Certipost E-Trust Primary Qualified CA,O=Certipost s.a./n.v.,C=BE
# Not Valid Before: Tue Jul 26 10:00:00 2005
# Not Valid After: Sun Jul 26 10:00:00 2020
# Fingerprint (MD5): 10:0e:ad:f3:5c:84:1d:8e:03:5f:2d:c9:39:37:f5:52
# Fingerprint (SHA1): 74:2c:df:15:94:04:9c:bf:17:a2:04:6c:c6:39:bb:38:88:e0:2e:33
CKA_CLASS
 CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certipost E-Trust Primary Qualified CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\134\061\013\060\011\006\003\125\004\006\023\002\102\105\061
```

\034\060\032\006\003\125\004\012\023\023\103\145\162\164\151\160
\157\163\164\040\163\056\141\056\057\156\056\166\056\061\057\060
\055\006\003\125\004\003\023\046\103\145\162\164\151\160\157\163
\164\040\105\055\124\162\165\163\164\040\120\162\151\155\141\162
\171\040\121\165\141\154\151\146\151\145\144\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\134\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\034\060\032\006\003\125\004\012\023\023\103\145\162\164\151\160
\157\163\164\040\163\056\141\056\057\156\056\166\056\061\057\060
\055\006\003\125\004\003\023\046\103\145\162\164\151\160\157\163
\164\040\105\055\124\162\165\163\164\040\120\162\151\155\141\162
\171\040\121\165\141\154\151\146\151\145\144\040\103\101
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\013\004\000\000\000\000\001\005\122\144\304\045
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\336\060\202\002\306\240\003\002\001\002\002\013\004
\000\000\000\000\001\005\122\144\304\045\060\015\006\011\052\206
\110\206\367\015\001\001\005\005\000\060\134\061\013\060\011\006
\003\125\004\006\023\002\102\105\061\034\060\032\006\003\125\004
\012\023\023\103\145\162\164\151\160\157\163\164\040\163\056\141
\056\057\156\056\166\056\061\057\060\055\006\003\125\004\003\023
\046\103\145\162\164\151\160\157\163\164\040\105\055\124\162\165
\163\164\040\120\162\151\155\141\162\171\040\121\165\141\154\151
\146\151\145\144\040\103\101\060\036\027\015\060\065\060\067\062
\066\061\060\060\060\060\060\132\027\015\062\060\060\067\062\066
\061\060\060\060\060\060\132\060\134\061\013\060\011\006\003\125
\004\006\023\002\102\105\061\034\060\032\006\003\125\004\012\023
\023\103\145\162\164\151\160\157\163\164\040\163\056\141\056\057
\156\056\166\056\061\057\060\055\006\003\125\004\003\023\046\103
\145\162\164\151\160\157\163\164\040\105\055\124\162\165\163\164
\040\120\162\151\155\141\162\171\040\121\165\141\154\151\146\151
\145\144\040\103\101\060\202\001\042\060\015\006\011\052\206\110
\206\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001
\012\002\202\001\001\000\256\040\322\170\333\232\240\162\234\004
\122\045\054\155\122\330\327\047\211\063\240\341\262\325\373\060
\165\153\055\177\034\147\216\016\347\037\022\337\027\171\030\273
\264\033\157\370\075\165\033\236\147\067\360\361\372\017\165\355
\206\235\003\004\241\050\160\055\074\262\153\240\163\121\343\065
\251\164\245\010\076\224\205\047\066\052\252\162\144\374\167\356
\166\224\034\162\353\277\062\307\167\003\152\045\202\011\005\257
\137\140\074\177\254\033\274\222\350\074\164\131\316\361\174\124
\055\070\256\226\360\254\157\241\063\014\041\132\001\272\043\040
\133\240\206\002\325\123\334\111\037\250\062\263\257\073\106\073

\266\357\237\071\263\070\013\347\172\212\366\050\371\247\157\120
\051\310\171\130\213\111\322\245\330\205\176\126\361\151\025\170
\104\021\065\327\245\124\076\253\146\045\322\333\343\030\361\056
\053\342\161\043\011\067\144\103\102\164\062\226\167\336\227\242
\351\226\206\234\045\104\011\324\001\235\121\176\063\267\011\104
\345\200\227\015\144\133\167\030\227\245\113\251\236\020\235\207
\372\126\247\317\012\175\002\003\001\000\001\243\201\240\060\201
\235\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001
\006\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001
\001\377\060\035\006\003\125\035\016\004\026\004\024\360\170\371
\007\167\020\273\334\036\241\256\171\373\060\020\333\306\064\370
\027\060\110\006\003\125\035\040\004\101\060\077\060\075\006\011
\003\220\016\007\001\000\001\002\000\060\060\060\056\006\010\053
\006\001\005\005\007\002\001\026\042\150\164\164\160\072\057\057
\167\167\167\056\145\055\164\162\165\163\164\056\142\145\057\103
\120\123\057\121\116\143\145\162\164\163\040\060\021\006\011\140
\206\110\001\206\370\102\001\001\004\004\003\002\000\007\060\015
\006\011\052\206\110\206\367\015\001\001\005\005\000\003\202\001
\001\000\154\341\330\137\164\130\351\160\111\326\312\015\054\130
\332\312\144\266\121\117\303\006\144\001\351\212\163\035\236\317
\106\170\277\073\205\206\342\075\112\030\224\052\201\167\157\202
\370\157\364\356\042\374\235\030\041\162\140\273\030\200\202\225
\373\371\367\225\044\201\146\301\265\303\265\322\266\166\213\073
\201\134\270\241\016\053\001\024\213\200\011\100\356\370\140\114
\031\344\027\315\047\001\263\143\022\005\244\010\311\264\277\236
\120\116\265\336\017\222\063\146\165\320\075\347\043\174\352\045
\161\174\376\076\056\066\171\241\345\051\120\043\065\005\225\170
\273\237\171\144\334\127\110\047\054\342\134\063\315\302\273\176
\150\167\247\057\243\111\027\162\341\000\204\153\175\172\257\071
\013\054\325\330\127\144\062\154\204\012\152\166\072\323\254\315
\235\261\347\067\334\354\014\057\305\127\140\337\210\365\103\261
\001\144\046\264\047\202\020\262\243\120\357\227\346\177\277\221
\207\263\333\220\251\052\342\172\064\154\163\111\364\350\215\056
\153\212\335\241\212\177\143\320\277\130\036\257\314\077\222\120
\055\321
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Certipost E-Trust Primary Qualified CA"
Issuer: CN=Certipost E-Trust Primary Qualified CA,O=Certipost s.a./n.v.,C=BE
Serial Number:04:00:00:00:00:01:05:52:64:c4:25
Subject: CN=Certipost E-Trust Primary Qualified CA,O=Certipost s.a./n.v.,C=BE
Not Valid Before: Tue Jul 26 10:00:00 2005
Not Valid After: Sun Jul 26 10:00:00 2020

```
# Fingerprint (MD5): 10:0e:ad:f3:5c:84:1d:8e:03:5f:2d:c9:39:37:f5:52
# Fingerprint (SHA1): 74:2c:df:15:94:04:9c:bf:17:a2:04:6c:c6:39:bb:38:88:e0:2e:33
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN
 CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certipost E-Trust Primary Qualified CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\164\054\337\025\224\004\234\277\027\242\004\154\306\071\273\070
\210\340\056\063
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\020\016\255\363\134\204\035\216\003\137\055\311\071\067\365\122
END
CKA_ISSUER MULTILINE_OCTAL
\060\134\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\034\060\032\006\003\125\004\012\023\023\103\145\162\164\151\160
\157\163\164\040\163\056\141\056\057\156\056\166\056\061\057\060
\055\006\003\125\004\003\023\046\103\145\162\164\151\160\157\163
\164\040\105\055\124\162\165\163\164\040\120\162\151\155\141\162
\171\040\121\165\141\154\151\146\151\145\144\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\004\000\000\000\000\001\005\122\144\304\045
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING
 CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Certipost E-Trust Primary Normalised CA"
# Issuer: CN=Certipost E-Trust Primary Normalised CA,O=Certipost s.a./n.v.,C=BE
# Serial Number:04:00:00:00:00:01:05:52:64:c7:61
# Subject: CN=Certipost E-Trust Primary Normalised CA,O=Certipost s.a./n.v.,C=BE
# Not Valid Before: Tue Jul 26 10:00:00 2005
# Not Valid After: Sun Jul 26 10:00:00 2020
# Fingerprint (MD5): 21:ef:b8:50:40:39:3f:75:6f:27:fe:e3:ea:58:70:eb
# Fingerprint (SHA1): a5:9c:9b:10:ec:73:57:51:5a:bb:66:0c:4d:94:f7:3b:9e:6e:92:72
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certipost E-Trust Primary Normalised CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
```

\060\135\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\034\060\032\006\003\125\004\012\023\023\103\145\162\164\151\160
\157\163\164\040\163\056\141\056\057\156\056\166\056\061\060\060
\056\006\003\125\004\003\023\047\103\145\162\164\151\160\157\163
\164\040\105\055\124\162\165\163\164\040\120\162\151\155\141\162
\171\040\116\157\162\155\141\154\151\163\145\144\040\103\101
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\135\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\034\060\032\006\003\125\004\012\023\023\103\145\162\164\151\160
\157\163\164\040\163\056\141\056\057\156\056\166\056\061\060\060
\056\006\003\125\004\003\023\047\103\145\162\164\151\160\157\163
\164\040\105\055\124\162\165\163\164\040\120\162\151\155\141\162
\171\040\116\157\162\155\141\154\151\163\145\144\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\004\000\000\000\000\001\005\122\144\307\141
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\340\060\202\002\310\240\003\002\001\002\002\013\004
\000\000\000\000\001\005\122\144\307\141\060\015\006\011\052\206
\110\206\367\015\001\001\005\005\000\060\135\061\013\060\011\006
\003\125\004\006\023\002\102\105\061\034\060\032\006\003\125\004
\012\023\023\103\145\162\164\151\160\157\163\164\040\163\056\141
\056\057\156\056\166\056\061\060\060\056\006\003\125\004\003\023
\047\103\145\162\164\151\160\157\163\164\040\105\055\124\162\165
\163\164\040\120\162\151\155\141\162\171\040\116\157\162\155\141
\154\151\163\145\144\040\103\101\060\036\027\015\060\065\060\067
\062\066\061\060\060\060\060\060\132\027\015\062\060\060\067\062
\066\061\060\060\060\060\060\132\060\135\061\013\060\011\006\003
\125\004\006\023\002\102\105\061\034\060\032\006\003\125\004\012
\023\023\103\145\162\164\151\160\157\163\164\040\163\056\141\056
\057\156\056\166\056\061\060\060\056\006\003\125\004\003\023\047
\103\145\162\164\151\160\157\163\164\040\105\055\124\162\165\163
\164\040\120\162\151\155\141\162\171\040\116\157\162\155\141\154
\151\163\145\144\040\103\101\060\202\001\042\060\015\006\011\052
\206\110\206\367\015\001\001\001\005\000\003\202\001\017\000\060
\202\001\012\002\202\001\001\000\325\263\252\122\204\172\027\223
\042\017\270\004\030\312\311\362\202\052\254\025\013\247\120\161
\266\114\045\153\367\377\001\252\127\132\167\116\136\023\024\015
\125\362\036\361\205\315\205\327\202\034\014\332\011\053\275\375
\274\236\376\155\211\115\242\002\044\346\121\352\067\177\061\106
\132\173\232\166\263\056\240\135\137\344\370\231\012\007\276\356
\222\046\022\311\173\347\135\154\320\203\107\016\300\214\247\321
\171\127\300\013\031\234\233\236\103\305\116\221\045\316\210\053
\155\171\331\171\212\326\146\116\042\303\032\105\116\357\310\260

\142\046\116\046\124\120\237\014\157\263\153\314\174\237\177\336
\017\015\265\217\303\153\324\341\302\373\273\126\120\252\214\075
\217\000\213\074\374\110\027\152\322\132\363\165\155\145\201\275
\106\135\237\242\142\123\256\316\363\251\344\221\053\132\046\303
\171\146\321\246\123\146\065\034\006\161\261\356\231\016\304\373
\130\022\254\042\106\055\342\042\222\333\341\074\277\273\376\206
\347\223\064\163\317\170\151\323\313\336\371\014\262\150\332\311
\212\012\140\124\304\363\126\143\002\003\001\000\001\243\201\240
\060\201\235\060\016\006\003\125\035\017\001\001\377\004\004\003
\002\001\006\060\017\006\003\125\035\023\001\001\377\004\005\060
\003\001\001\377\060\110\006\003\125\035\040\004\101\060\077\060
\075\006\011\003\220\016\007\001\000\001\002\000\060\060\060\056
\006\010\053\006\001\005\005\007\002\001\026\042\150\164\164\160
\072\057\057\167\167\167\056\145\055\164\162\165\163\164\056\142
\145\057\103\120\123\057\121\116\143\145\162\164\163\040\060\035
\006\003\125\035\016\004\026\004\024\021\362\013\226\322\063\070
\201\127\130\023\375\100\244\021\157\116\231\372\147\060\021\006
\011\140\206\110\001\206\370\102\001\001\004\004\003\002\000\007
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\003
\202\001\001\000\065\153\117\336\235\363\003\266\035\310\274\215
\347\136\152\236\251\351\355\242\053\227\352\257\321\341\106\323
\002\111\175\304\122\205\353\272\366\323\277\071\142\030\235\223
\111\275\170\003\277\323\136\025\335\357\047\034\341\273\105\001
\042\201\000\115\072\340\205\312\132\062\003\314\040\217\257\357
\301\333\250\372\363\334\327\262\261\017\003\201\011\051\340\161
\174\213\372\177\313\066\156\033\350\024\316\360\113\046\241\062
\051\117\314\264\365\207\110\014\023\374\307\235\257\253\324\223
\365\052\115\177\110\202\130\076\027\377\303\200\052\253\077\127
\125\270\071\054\146\020\144\046\155\214\153\326\335\240\203\032
\132\126\021\226\106\275\256\160\050\326\070\127\133\221\325\077
\115\351\254\263\303\044\112\226\145\134\064\320\036\324\277\010
\245\227\135\367\106\333\166\360\315\076\165\143\000\053\257\255
\256\206\336\137\246\231\124\015\205\043\245\374\272\355\033\122
\372\111\030\167\205\133\252\162\233\047\010\065\105\067\047\333
\227\311\372\213\075\310\320\235\336\132\357\135\243\026\266\230
\171\312\174\313
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER
 CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Certipost E-Trust Primary Normalised CA"
Issuer: CN=Certipost E-Trust Primary Normalised CA,O=Certipost s.a./n.v.,C=BE
Serial Number:04:00:00:00:00:01:05:52:64:c7:61
Subject: CN=Certipost E-Trust Primary Normalised CA,O=Certipost s.a./n.v.,C=BE

```
# Not Valid Before: Tue Jul 26 10:00:00 2005
# Not Valid After: Sun Jul 26 10:00:00 2020
# Fingerprint (MD5): 21:ef:b8:50:40:39:3f:75:6f:27:fe:e3:ea:58:70:eb
# Fingerprint (SHA1): a5:9c:9b:10:ec:73:57:51:5a:bb:66:0c:4d:94:f7:3b:9e:6e:92:72
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certipost E-Trust Primary Normalised CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\245\234\233\020\354\163\127\121\132\273\146\014\115\224\367\073
\236\156\222\162
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\041\357\270\120\100\071\077\165\157\047\376\343\352\130\160\353
END
CKA_ISSUER
 MULTILINE_OCTAL
\060\135\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\034\060\032\006\003\125\004\012\023\023\103\145\162\164\151\160
\157\163\164\040\163\056\141\056\057\156\056\166\056\061\060\060
\056\006\003\125\004\003\023\047\103\145\162\164\151\160\157\163
\164\040\105\055\124\162\165\163\164\040\120\162\151\155\141\162
\171\040\116\157\162\155\141\154\151\163\145\144\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\004\000\000\000\000\001\005\122\144\307\141
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Cybertrust Global Root"
# Issuer: CN=Cybertrust Global Root,O=Cybertrust\, Inc
# Serial Number:04:00:00:00:00:01:0f:85:aa:2d:48
# Subject: CN=Cybertrust Global Root,O=Cybertrust\, Inc
# Not Valid Before: Fri Dec
 15 08:00:00 2006
# Not Valid After: Wed Dec 15 08:00:00 2021
# Fingerprint (MD5): 72:e4:4a:87:e3:69:40:80:77:ea:bc:e3:f4:ff:f0:e1
# Fingerprint (SHA1): 5f:43:e5:b1:bf:f8:78:8c:ac:1c:c7:ca:4a:9a:c6:22:2b:cc:34:c6
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Cybertrust Global Root"
```

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\073\061\030\060\026\006\003\125\004\012\023\017\103\171\142
\145\162\164\162\165\163\164\054\040\111\156\143\061\037\060\035
\006\003\125\004\003\023\026\103\171\142\145\162\164\162\165\163
\164\040\107\154\157\142\141\154\040\122\157\157\164
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\073\061\030\060\026\006\003\125\004\012\023\017\103\171\142
\145\162\164\162\165\163\164\054\040\111\156\143\061\037\060\035
\006\003\125\004\003\023\026\103\171\142\145\162\164\162\165\163
\164\040\107\154\157\142\141\154\040\122\157\157\164
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\013\004\000\000\000\000\001\017\205\252\055\110
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\241\060\202\002\211\240\003\002\001\002\002\013\004
\000\000\000\000\001\017\205\252\055\110\060\015\006\011\052\206
\110\206\367\015\001\001\005\005\000\060\073\061\030\060\026\006
\003\125\004\012\023\017\103\171\142\145\162\164\162\165\163\164
\054\040\111\156\143\061\037\060\035\006\003\125\004\003\023\026
\103\171\142\145\162\164\162\165\163\164\040\107\154\157\142\141
\154\040\122\157\157\164\060\036\027\015\060\066\061\062\061\065
\060\070\060\060\060\060\132\027\015\062\061\061\062\061\065\060
\070\060\060\060\060\132\060\073\061\030\060\026\006\003\125\004
\012\023\017\103\171\142\145\162\164\162\165\163\164\054\040\111
\156\143\061\037\060\035\006\003\125\004\003\023\026\103\171\142
\145\162\164\162\165\163\164\040\107\154\157\142\141\154\040\122
\157\157\164\060\202\001\042\060\015\006\011\052\206\110\206\367
\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002
\202\001\001\000\370\310\274\275\024\120\146\023\377\360\323\171
\354\043\362\267\032\307\216\205\361\022\163\246\031\252\020\333
\234\242\145\164\132\167\076\121\175\126\366\334\043\266\324\355
\137\130\261\067\115\325\111\016\156\365\152\207\326\322\214\322
\047\306\342\377\066\237\230\145\240\023\116\306\052\144\233\325
\220\022\317\024\006\364\073\343\324\050\276\350\016\370\253\116
\110\224\155\216\225\061\020\134\355\242\055\275\325\072\155\262
\034\273\140\300\106\113\001\365\111\256\176\106\212\320\164\215
\241\014\002\316\356\374\347\217\270\153\146\363\177\104\000\277
\146\045\024\053\335\020\060\035\007\226\077\115\366\153\270\217
\267\173\014\245\070\353\336\107\333\325\135\071\374\210\247\363
\327\052\164\361\350\132\242\073\237\120\272\246\214\105\065\302
\120\145\225\334\143\202\357\335\277\167\115\234\142\311\143\163
\026\320\051\017\111\251\110\360\263\252\267\154\305\247\060\071
\100\135\256\304\342\135\046\123\360\316\034\043\010\141\250\224

\031\272\004\142\100\354\037\070\160\167\022\006\161\247\060\030
\135\045\047\245\002\003\001\000\001\243\201\245\060\201\242\060
\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377
\060\035\006\003\125\035\016\004\026\004\024\266\010\173\015\172
\314\254\040\114\206\126\062\136\317\253\156\205\055\160\127\060
\077\006\003\125\035\037\004\070\060\066\060\064\240\062\240\060
\206\056\150\164\164\160\072\057\057\167\167\167\062\056\160\165
\142\154\151\143\055\164\162\165\163\164\056\143\157\155\057\143
\162\154\057\143\164\057\143\164\162\157\157\164\056\143\162\154
\060\037\006\003\125\035\043\004\030\060\026\200\024\266\010\173
\015\172\314\254\040\114\206\126\062\136\317\253\156\205\055\160
\127\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000
\003\202\001\001\000\126\357\012\043\240\124\116\225\227\311\370
\211\332\105\301\324\243\000\045\364\037\023\253\267\243\205\130
\151\302\060\255\330\025\212\055\343\311\315\201\132\370\163\043
\132\247\174\005\363\375\042\073\016\321\006\304\333\066\114\163
\004\216\345\260\042\344\305\363\056\245\331\043\343\270\116\112
\040\247\156\002\044\237\042\140\147\173\213\035\162\011\305\061
\134\351\171\237\200\107\075\255\241\013\007\024\075\107\377\003
\151\032\014\013\104\347\143\045\247\177\262\311\270\166\204\355
\043\366\175\007\253\105\176\323\337\263\277\351\212\266\315\250
\242\147\053\122\325\267\145\360\071\114\143\240\221\171\223\122
\017\124\335\203\273\237\321\217\247\123\163\303\313\377\060\354
\174\004\270\330\104\037\223\137\161\011\042\267\156\076\352\034
\003\116\235\032\040\141\373\201\067\354\136\374\012\105\253\327
\347\027\125\320\240\352\140\233\246\366\343\214\133\051\302\006
\140\024\235\055\227\114\251\223\025\235\141\304\001\137\110\326
\130\275\126\061\022\116\021\310\041\340\263\021\221\145\333\264
\246\210\070\316\125
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL
 CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Cybertrust Global Root"
Issuer: CN=Cybertrust Global Root,O=Cybertrust\, Inc
Serial Number:04:00:00:00:00:01:0f:85:aa:2d:48
Subject: CN=Cybertrust Global Root,O=Cybertrust\, Inc
Not Valid Before: Fri Dec 15 08:00:00 2006
Not Valid After: Wed Dec 15 08:00:00 2021
Fingerprint (MD5): 72:e4:4a:87:e3:69:40:80:77:ea:bc:e3:f4:ff:f0:e1
Fingerprint (SHA1): 5f:43:e5:b1:bf:f8:78:8c:ac:1c:c7:ca:4a:9a:c6:22:2b:cc:34:c6
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE

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CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Cybertrust Global Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\137\103\345\261\277\370\170\214\254\034\307\312\112\232\306\042
\053\314\064\306
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\162\344\112\207\343\151\100\200\167\352\274\343\364\377\360\341
END
CKA_ISSUER MULTILINE_OCTAL
\060\073\061\030\060\026\006\003\125\004\012\023\017\103\171\142
\145\162\164\162\165\163\164\054\040\111\156\143\061\037\060\035
\006\003\125\004\003\023\026\103\171\142\145\162\164\162\165\163
\164\040\107\154\157\142\141\154\040\122\157\157\164
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\013\004\000\000\000\000\001\017\205\252\055\110
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "GlobalSign"
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R2
# Serial Number:04:00:00:00:00:01:0f:86:26:e6:0d
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R2
# Not Valid Before: Fri Dec 15 08:00:00 2006
# Not Valid After: Wed Dec 15 08:00:00 2021
# Fingerprint (MD5): 94:14:77:7e:3e:5e:fd:8f:30:bd:41:b0:cf:e7:d0:30
# Fingerprint (SHA1): 75:e0:ab:b6:13:85:12:27:1c:04:f8:5f:dd:de:38:e4:b7:24:2e:fe
CKA_CLASS
 CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\114\061\040\060\036\006\003\125\004\013\023\027\107\154\157
\142\141\154\123\151\147\156\040\122\157\157\164\040\103\101\040
\055\040\122\062\061\023\060\021\006\003\125\004\012\023\012\107
\154\157\142\141\154\123\151\147\156\061\023\060\021\006\003\125
\004\003\023\012\107\154\157\142\141\154\123\151\147\156
END
```

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\114\061\040\060\036\006\003\125\004\013\023\027\107\154\157
\142\141\154\123\151\147\156\040\122\157\157\164\040\103\101\040
\055\040\122\062\061\023\060\021\006\003\125\004\012\023\012\107
\154\157\142\141\154\123\151\147\156\061\023\060\021\006\003\125
\004\003\023\012\107\154\157\142\141\154\123\151\147\156
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\004\000\000\000\000\001\017\206\046\346\015
END
CKA_VALUE
MULTILINE_OCTAL
\060\202\003\272\060\202\002\242\240\003\002\001\002\002\013\004
\000\000\000\000\001\017\206\046\346\015\060\015\006\011\052\206
\110\206\367\015\001\001\005\005\000\060\114\061\040\060\036\006
\003\125\004\013\023\027\107\154\157\142\141\154\123\151\147\156
\040\122\157\157\164\040\103\101\040\055\040\122\062\061\023\060
\021\006\003\125\004\012\023\012\107\154\157\142\141\154\123\151
\147\156\061\023\060\021\006\003\125\004\003\023\012\107\154\157
\142\141\154\123\151\147\156\060\036\027\015\060\066\061\062\061
\065\060\070\060\060\060\060\132\027\015\062\061\061\062\061\065
\060\070\060\060\060\060\132\060\114\061\040\060\036\006\003\125
\004\013\023\027\107\154\157\142\141\154\123\151\147\156\040\122
\157\157\164\040\103\101\040\055\040\122\062\061\023\060\021\006
\003\125\004\012\023\012\107\154\157\142\141\154\123\151\147\156
\061\023\060\021\006\003\125\004\003\023\012\107\154\157\142\141
\154\123\151\147\156\060\202\001\042\060\015\006\011\052\206\110
\206\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001
\012\002\202\001\001\000\246\317\044\016\276\056\157\050\231\105
\102\304\253\076\041\124\233\013\323\177\204\160\372\022\263\313
\277\207\137\306\177\206\323\262\060\134\326\375\255\361\173\334
\345\370\140\226\011\222\020\365\320\123\336\373\173\176\163\210
\254\122\210\173\112\246\312\111\246\136\250\247\214\132\021\274
\172\202\353\276\214\351\263\254\226\045\007\227\112\231\052\007
\057\264\036\167\277\212\017\265\002\174\033\226\270\305\271\072
\054\274\326\022\271\353\131\175\342\320\006\206\137\136\111\152
\265\071\136\210\064\354\274\170\014\010\230\204\154\250\315\113
\264\240\175\014\171\115\360\270\055\313\041\312\325\154\133\175
\341\240\051\204\241\371\323\224\111\313\044\142\221\040\274\335
\013\325\331\314\371\352\047\012\053\163\221\306\235\033\254\310
\313\350\340\240\364\057\220\213\115\373\260\066\033\366\031\172
\205\340\155\362\141\023\210\134\237\340\223\012\121\227\212\132
\316\257\253\325\367\252\011\252\140\275\334\331\137\337\162\251
\140\023\136\000\001\311\112\372\077\244\352\007\003\041\002\216
\202\312\003\302\233\217\002\003\001\000\001\243\201\234\060\201
\231\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001
\006\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001

\001\377\060\035\006\003\125\035\016\004\026\004\024\233\342\007
\127\147\034\036\300\152\006\336\131\264\232\055\337\334\031\206
\056\060\066\006\003\125\035\037\004\057\060\055\060\053\240\051
\240\047\206\045\150\164\164\160\072\057\057\143\162\154\056\147
\154\157\142\141\154\163\151\147\156\056\156\145\164\057\162\157
\157\164\055\162\062\056\143\162\154\060\037\006\003\125\035\043
\004\030\060\026\200\024\233\342\007\127\147\034\036\300\152\006
\336\131\264\232\055\337\334\031\206\056\060\015\006\011\052\206
\110\206\367\015\001\001\005\005\000\003\202\001\001\000\231\201
\123\207\034\150\227\206\221\354\340\112\270\104\013\253\201\254
\047\117\326\301\270\034\103\170\263\014\232\374\352\054\074\156
\141\033\115\113\051\365\237\005\035\046\301\270\351\203\000\142
\105\266\251\010\223\271\251\063\113\030\232\302\370\207\210\116
\333\335\161\064\032\301\124\332\106\077\340\323\052\253\155\124
\042\365\072\142\315\040\157\272\051\211\327\335\221\356\323\134
\242\076\241\133\101\365\337\345\144\103\055\351\325\071\253\322
\242\337\267\213\320\300\200\031\034\105\300\055\214\350\370\055
\244\164\126\111\305\005\265\117\025\336\156\104\170\071\207\250
\176\273\363\171\030\221\273\364\157\235\301\360\214\065\214\135
\001\373\303\155\271\357\104\155\171\106\061\176\012\376\251\202
\301\377\357\253\156\040\304\120\311\137\235\115\233\027\214\014
\345\001\311\240\101\152\163\123\372\245\120\264\156\045\017\373
\114\030\364\375\122\331\216\151\261\350\021\017\336\210\330\373
\035\111\367\252\336\225\317\040\170\302\140\022\333\045\100\214
\152\374\176\102\070\100\144\022\367\236\201\341\223\056
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER
 CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "GlobalSign"
Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R2
Serial Number:04:00:00:00:00:01:0f:86:26:e6:0d
Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R2
Not Valid Before: Fri Dec 15 08:00:00 2006
Not Valid After: Wed Dec 15 08:00:00 2021
Fingerprint (MD5): 94:14:77:7e:3e:5e:fd:8f:30:bd:41:b0:cf:e7:d0:30
Fingerprint (SHA1): 75:e0:ab:b6:13:85:12:27:1c:04:f8:5f:dd:de:38:e4:b7:24:2e:fe
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\165\340\253\266\023\205\022\047\034\004\370\137\335\336\070\344

```
\267\044\056\376
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\224\024\167\176\076\136\375\217\060\275\101\260\317\347\320\060
END
CKA_ISSUER MULTILINE_OCTAL
\060\114\061\040\060\036\006\003\125\004\013\023\027\107\154\157
\142\141\154\123\151\147\156\040\122\157\157\164\040\103\101\040
\055\040\122\062\061\023\060\021\006\003\125\004\012\023\012\107
\154\157\142\141\154\123\151\147\156\061\023\060\021\006\003\125
\004\003\023\012\107\154\157\142\141\154\123\151\147\156
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\013\004\000\000\000\000\001\017\206\046\346\015
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "IGC/A"
# Issuer:
1.2.840.113549.1.9.1=igca@sgdn.pm.gouv.fr,CN=IGC/A,OU=DCSSI,O=PM/SGDN,L=Paris,ST=France,C=FR
# Serial Number:39:11:45:10:94
# Subject:
1.2.840.113549.1.9.1=igca@sgdn.pm.gouv.fr,CN=IGC/A,OU=DCSSI,O=PM/SGDN,L=Paris,ST=France,C=FR
# Not Valid Before: Fri Dec 13 14:29:23 2002
# Not Valid After: Sat Oct 17 14:29:22
 2020
# Fingerprint (MD5): 0c:7f:dd:6a:f4:2a:b9:c8:9b:bd:20:7e:a9:db:5c:37
# Fingerprint (SHA1): 60:d6:89:74:b5:c2:65:9e:8a:0f:c1:88:7c:88:d2:46:69:1b:18:2c
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "IGC/A"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\205\061\013\060\011\006\003\125\004\006\023\002\106\122
\061\017\060\015\006\003\125\004\010\023\006\106\162\141\156\143
\145\061\016\060\014\006\003\125\004\007\023\005\120\141\162\151
\163\061\020\060\016\006\003\125\004\012\023\007\120\115\057\123
\107\104\116\061\016\060\014\006\003\125\004\013\023\005\104\103
\123\123\111\061\016\060\014\006\003\125\004\003\023\005\111\107
\103\057\101\061\043\060\041\006\011\052\206\110\206\367\015\001
\011\001\026\024\151\147\143\141\100\163\147\144\156\056\160\155
```

\056\147\157\165\166\056\146\162
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\205\061\013\060\011\006\003\125\004\006\023\002\106\122
\061\017\060\015\006\003\125\004\010\023\006\106\162\141\156\143
\145\061\016\060\014\006\003\125\004\007\023\005\120\141\162\151
\163\061\020\060\016\006\003\125\004\012\023\007\120\115\057\123
\107\104\116\061\016\060\014\006\003\125\004\013\023\005\104\103
\123\123\111\061\016\060\014\006\003\125\004\003\023\005\111\107
\103\057\101\061\043\060\041\006\011\052\206\110\206\367\015\001
\011\001\026\024\151\147\143\141\100\163\147\144\156\056\160\155
\056\147\157\165\166\056\146\162
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\005\071\021\105\020\224
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\002\060\202\002\352\240\003\002\001\002\002\005\071
\021\105\020\224\060\015\006\011\052\206\110\206\367\015\001\001
\005\005\000\060\201\205\061\013\060\011\006\003\125\004\006\023
\002\106\122\061\017\060\015\006\003\125\004\010\023\006\106\162
\141\156\143\145\061\016\060\014\006\003\125\004\007\023\005\120
\141\162\151\163\061\020\060\016\006\003\125\004\012\023\007\120
\115\057\123\107\104\116\061\016\060\014\006\003\125\004\013\023
\005\104\103\123\123\111\061\016\060\014\006\003\125\004\003\023
\005\111\107\103\057\101\061\043\060\041\006\011\052\206\110\206
\367\015\001\011\001\026\024\151\147\143\141\100\163\147\144\156
\056\160\155\056\147\157\165\166\056\146\162\060\036\027\015\060
\062\061\062\061\063\061\064\062\071\062\063\132\027\015\062\060
\061\060\061\067\061\064\062\071\062\062\132\060\201\205\061\013
\060\011\006\003\125\004\006\023\002\106\122\061\017\060\015\006
\003\125\004\010\023\006\106\162\141\156\143\145\061\016\060\014
\006\003\125\004\007\023\005\120\141\162\151\163\061\020\060\016
\006\003\125\004\012\023\007\120\115\057\123\107\104\116\061\016
\060\014\006\003\125\004\013\023\005\104\103\123\123\111\061\016
\060\014\006\003\125\004\003\023\005\111\107\103\057\101\061\043
\060\041\006\011\052\206\110\206\367\015\001\011\001\026\024\151
\147\143\141\100\163\147\144\156\056\160\155\056\147\157\165\166
\056\146\162\060\202\001\042\060\015\006\011\052\206\110\206\367
\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002
\202\001\001\000\262\037\321\320\142\305\063\073\300\004\206\210
\263\334\370\210\367\375\337\103\337\172\215\232\111\134\366\116
\252\314\034\271\241\353\047\211\362\106\351\073\112\161\325\035
\216\055\317\346\255\253\143\120\307\124\013\156\022\311\220\066
\306\330\057\332\221\252\150\305\162\376\027\012\262\027\176\171
\265\062\210\160\312\160\300\226\112\216\344\125\315\035\047\224

\277\316\162\052\354\134\371\163\040\376\275\367\056\211\147\270
\273\107\163\022\367\321\065\151\072\362\012\271\256\377\106\102
\106\242\277\241\205\032\371\277\344\377\111\205\367\243\160\206
\062\034\135\237\140\367\251\255\245\377\317\321\064\371\175\133
\027\306\334\326\016\050\153\302\335\361\365\063\150\235\116\374
\207\174\066\022\326\243\200\350\103\015\125\141\224\352\144\067
\107\352\167\312\320\262\130\005\303\135\176\261\250\106\220\061
\126\316\160\052\226\262\060\270\167\346\171\300\275\051\073\375
\224\167\114\275\040\315\101\045\340\056\307\033\273\356\244\004
\101\322\135\255\022\152\212\233\107\373\311\335\106\100\341\235
\074\063\320\265\002\003\001\000\001\243\167\060\165\060\017\006
\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060\013
\006\003\125\035\017\004\004\003\002\001\106\060\025\006\003\125
\035\040\004\016\060\014\060\012\006\010\052\201\172\001\171\001
\001\001\060\035\006\003\125\035\016\004\026\004\024\243\005\057
\030\140\120\302\211\012\335\053\041\117\377\216\116\250\060\061
\066\060\037\006\003\125\035\043\004\030\060\026\200\024\243\005
\057\030\140\120\302\211\012\335\053\041\117\377\216\116\250\060
\061\066\060\015\006\011\052\206\110\206\367\015\001\001\005\005
\000\003\202\001\001\000\005\334\046\330\372\167\025\104\150\374
\057\146\072\164\340\135\344\051\377\006\007\023\204\112\253\317
\155\240\037\121\224\370\111\313\164\066\024\274\025\335\333\211
\057\335\217\240\135\174\365\022\353\237\236\070\244\107\314\263
\226\331\276\234\045\253\003\176\063\017\225\201\015\375\026\340
\210\276\067\360\154\135\320\061\233\062\053\135\027\145\223\230
\140\274\156\217\261\250\074\036\331\034\363\251\046\102\371\144
\035\302\347\222\366\364\036\132\252\031\122\135\257\350\242\367
\140\240\366\215\360\211\365\156\340\012\005\001\225\311\213\040
\012\272\132\374\232\054\074\275\303\267\311\135\170\045\005\077
\126\024\233\014\332\373\072\110\376\227\151\136\312\020\206\367
\116\226\004\010\115\354\260\276\135\334\073\216\117\301\375\232
\066\064\232\114\124\176\027\003\110\225\010\021\034\007\157\205
\010\176\135\115\304\235\333\373\256\316\262\321\263\270\203\154
\035\262\263\171\361\330\160\231\176\360\023\002\316\136\335\121
\323\337\066\201\241\033\170\057\161\263\361\131\114\106\030\050
\253\205\322\140\126\132
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing
 Only Certificate
# Trust for "IGC/A"
# Issuer:
1.2.840.113549.1.9.1=igca@sgdn.pm.gouv.fr,CN=IGC/A,OU=DCSSI,O=PM/SGDN,L=Paris,ST=France,C=FR
# Serial Number:39:11:45:10:94

```
# Subject:
1.2.840.113549.1.9.1=igca@sgdn.pm.gouv.fr,CN=IGC/A,OU=DCSSI,O=PM/SGDN,L=Paris,ST=France,C=FR
# Not Valid Before: Fri Dec 13 14:29:23 2002
# Not Valid After: Sat Oct 17 14:29:22 2020
# Fingerprint (MD5): 0c:7f:dd:6a:f4:2a:b9:c8:9b:bd:20:7e:a9:db:5c:37
# Fingerprint (SHA1): 60:d6:89:74:b5:c2:65:9e:8a:0f:c1:88:7c:88:d2:46:69:1b:18:2c
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "IGC/A"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\140\326\211\164\265\302\145\236\212\017\301\210\174\210\322\106
\151\033\030\054
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\014\177\335\152\364\052\271\310\233\275\040\176\251\333\134\067
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\205\061\013\060\011\006\003\125\004\006\023\002\106\122
\061\017\060\015\006\003\125\004\010\023\006\106\162\141\156\143
\145\061\016\060\014\006\003\125\004\007\023\005\120\141\162\151
\163\061\020\060\016\006\003\125\004\012\023\007\120\115\057\123
\107\104\116\061\016\060\014\006\003\125\004\013\023\005\104\103
\123\123\111\061\016\060\014\006\003\125\004\003\023\005\111\107
\103\057\101\061\043\060\041\006\011\052\206\110\206\367\015\001
\011\001\026\024\151\147\143\141\100\163\147\144\156\056\160\155
\056\147\157\165\166\056\146\162
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\005\071\021\105\020\224
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "SwissSign Platinum CA - G2"
# Issuer: CN=SwissSign Platinum CA - G2,O=SwissSign AG,C=CH
# Serial Number:4e:b2:00:67:0c:03:5d:4f
# Subject: CN=SwissSign Platinum CA - G2,O=SwissSign
 AG,C=CH
# Not Valid Before: Wed Oct 25 08:36:00 2006
# Not Valid After: Sat Oct 25 08:36:00 2036
# Fingerprint (MD5): c9:98:27:77:28:1e:3d:0e:15:3c:84:00:b8:85:03:e6
# Fingerprint (SHA1): 56:e0:fa:c0:3b:8f:18:23:55:18:e5:d3:11:ca:e8:c2:43:31:ab:66
```

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Platinum CA - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\111\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\043\060\041\006\003\125\004\003\023
\032\123\167\151\163\163\123\151\147\156\040\120\154\141\164\151
\156\165\155\040\103\101\040\055\040\107\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\111\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\043\060\041\006\003\125\004\003\023
\032\123\167\151\163\163\123\151\147\156\040\120\154\141\164\151
\156\165\155\040\103\101\040\055\040\107\062
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\010\116\262\000\147\014\003\135\117
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\301\060\202\003\251\240\003\002\001\002\002\010\116
\262\000\147\014\003\135\117\060\015\006\011\052\206\110\206\367
\015\001\001\005\005\000\060\111\061\013\060\011\006\003\125\004
\006\023\002\103\110\061\025\060\023\006\003\125\004\012\023\014
\123\167\151\163\163\123\151\147\156\040\101\107\061\043\060\041
\006\003\125\004\003\023\032\123\167\151\163\163\123\151\147\156
\040\120\154\141\164\151\156\165\155\040\103\101\040\055\040\107
\062\060\036\027\015\060\066\061\060\062\065\060\070\063\066\060
\060\132\027\015\063\066\061\060\062\065\060\070\063\066\060\060
\132\060\111\061\013\060\011\006\003\125\004\006\023\002\103\110
\061\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163
\123\151\147\156\040\101\107\061\043\060\041\006\003\125\004\003
\023\032\123\167\151\163\163\123\151\147\156\040\120\154\141\164
\151\156\165\155\040\103\101\040\055\040\107\062\060\202\002\042
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\002\017\000\060\202\002\012\002\202\002\001\000\312\337\242
\002\342\332\370\374\007\026\261\336\140\252\336\226\134\144\037
\307\057\176\317\147\372\104\102\326\166\143\225\256\353\257\162
\040\212\105\107\206\142\170\206\326\040\071\046\364\256\243\375
\043\347\245\234\265\042\041\031\267\067\223\042\300\120\234\202
\173\324\325\004\104\134\313\264\302\237\222\276\044\330\173\147
\042\342\151\137\345\005\170\324\207\331\161\160\063\045\123\264

\207\073\051\220\050\066\232\125\104\060\150\244\203\227\177\015
\036\234\166\377\025\235\140\227\000\215\212\205\003\354\200\276
\352\054\156\020\121\222\314\176\325\243\063\330\326\111\336\130
\052\257\366\026\353\113\173\220\062\227\271\272\235\130\361\370
\127\111\004\036\242\135\006\160\335\161\333\371\335\213\232\033
\214\317\075\243\115\316\313\174\366\273\234\240\372\011\316\043
\142\262\351\015\037\342\162\050\217\237\254\150\040\175\157\073
\250\205\061\011\177\013\307\350\145\351\343\170\016\011\147\060
\213\064\202\373\135\340\314\235\201\155\142\356\010\036\004\054
\116\233\354\376\251\117\137\375\151\170\357\011\037\241\264\277
\372\363\357\220\036\114\005\213\036\352\172\221\172\303\327\345
\373\060\274\154\033\020\130\230\367\032\137\320\051\062\003\023
\106\115\141\152\205\114\122\164\057\006\037\173\021\342\204\227
\306\231\363\155\177\327\147\203\176\023\150\330\161\050\132\330
\316\335\350\020\024\232\376\155\043\207\156\216\132\160\074\325
\215\011\000\247\252\274\260\061\067\155\310\204\024\036\133\275
\105\143\040\153\113\164\214\275\333\072\016\301\317\132\026\217
\245\230\362\166\211\262\023\022\073\013\167\167\254\273\345\074
\051\112\222\162\312\141\032\053\136\114\342\203\164\167\372\065
\110\172\205\115\215\232\123\304\337\170\312\227\221\110\053\105
\053\001\367\034\032\242\355\030\272\012\275\203\372\157\274\215
\127\223\073\324\324\246\316\036\361\240\261\316\253\375\053\050
\232\117\033\327\303\162\333\244\304\277\135\114\365\335\173\226
\151\356\150\200\346\347\230\272\066\267\376\156\355\053\275\040
\370\145\031\332\125\011\176\045\334\376\141\142\162\371\176\030
\002\357\143\264\320\373\257\345\073\143\214\147\217\002\003\001
\000\001\243\201\254\060\201\251\060\016\006\003\125\035\017\001
\001\377\004\004\003\002\001\006\060\017\006\003\125\035\023\001
\001\377\004\005\060\003\001\001\377\060\035\006\003\125\035\016
\004\026\004\024\120\257\314\007\207\025\107\157\070\305\264\145
\321\336\225\252\351\337\234\314\060\037\006\003\125\035\043\004
\030\060\026\200\024\120\257\314\007\207\025\107\157\070\305\264
\145\321\336\225\252\351\337\234\314\060\106\006\003\125\035\040
\004\077\060\075\060\073\006\011\140\205\164\001\131\001\001\001
\001\060\056\060\054\006\010\053\006\001\005\005\007\002\001\026
\040\150\164\164\160\072\057\057\162\145\160\157\163\151\164\157
\162\171\056\163\167\151\163\163\163\151\147\156\056\143\157\155
\057\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000
\003\202\002\001\000\010\205\246\365\026\014\374\104\032\301\143
\340\371\125\106\010\374\160\034\102\050\226\216\267\305\301\101
\165\116\011\161\171\345\155\226\312\113\245\210\140\320\060\164
\270\312\010\334\264\060\236\100\007\026\153\145\225\167\001\256
\244\267\065\013\201\332\161\025\251\164\027\070\173\130\312\371
\057\373\300\145\166\215\133\001\271\175\336\202\075\144\270\276
\024\164\243\012\124\323\054\225\030\027\065\365\121\153\077\217
\242\226\141\071\170\153\113\345\246\240\370\123\337\121\020\223
\142\347\200\057\342\321\340\274\216\066\106\167\063\354\270\373
\216\232\054\211\115\061\021\017\046\236\004\273\267\004\215\013

\362\271\374\132\235\073\026\267\057\310\230\253\376\212\120\131
\056\243\073\374\051\135\213\301\113\311\342\212\023\035\261\277
\273\102\035\122\335\116\330\024\136\020\306\061\007\357\161\047
\367\033\071\011\334\202\352\213\263\225\206\136\375\365\332\135
\061\246\340\061\266\224\346\104\111\164\305\026\345\367\037\003
\141\050\305\310\313\022\240\102\113\371\153\210\010\215\264\062
\030\363\165\237\304\177\000\117\005\225\234\243\027\002\303\263
\123\233\252\040\071\051\053\146\372\235\257\136\263\222\322\265
\246\341\032\371\055\101\151\201\024\264\264\265\355\211\075\316
\373\251\235\065\102\104\261\034\024\163\201\317\052\001\065\232
\061\325\055\217\155\204\337\200\115\127\343\077\305\204\165\332
\211\306\060\273\353\217\313\042\010\240\256\252\361\003\154\072
\113\115\011\245\016\162\306\126\153\041\102\116\043\045\024\150
\256\166\012\174\014\007\160\144\371\232\057\366\005\071\046\306
\014\217\031\177\103\136\156\364\133\025\057\333\141\135\346\147
\057\077\010\224\371\140\264\230\061\332\164\361\204\223\161\115
\137\373\140\130\321\373\304\301\155\211\242\273\040\037\235\161
\221\313\062\233\023\075\076\175\222\122\065\254\222\224\242\323
\030\302\174\307\352\257\166\005\026\335\147\047\302\176\034\007
\042\041\363\100\012\033\064\007\104\023\302\204\152\216\337\031
\132\277\177\353\035\342\032\070\321\134\257\107\222\153\200\265
\060\245\311\215\330\253\061\201\037\337\302\146\067\323\223\251
\205\206\171\145\322
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "SwissSign Platinum CA - G2"
Issuer: CN=SwissSign Platinum CA - G2,O=SwissSign AG,C=CH
Serial Number:4e:b2:00:67:0c:03:5d:4f
Subject: CN=SwissSign Platinum CA - G2,O=SwissSign AG,C=CH
Not Valid Before: Wed Oct 25 08:36:00 2006
Not Valid After: Sat Oct 25 08:36:00 2036
Fingerprint (MD5): c9:98:27:77:28:1e:3d:0e:15:3c:84:00:b8:85:03:e6
Fingerprint (SHA1): 56:e0:fa:c0:3b:8f:18:23:55:18:e5:d3:11:ca:e8:c2:43:31:ab:66
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE
 CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Platinum CA - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\126\340\372\300\073\217\030\043\125\030\345\323\021\312\350\302
\103\061\253\146
END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\311\230\047\167\050\036\075\016\025\074\204\000\270\205\003\346
END
CKA_ISSUER MULTILINE_OCTAL
\060\111\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\043\060\041\006\003\125\004\003\023
\032\123\167\151\163\163\123\151\147\156\040\120\154\141\164\151
\156\165\155\040\103\101\040\055\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\116\262\000\147\014\003\135\117
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "S-TRUST
 Authentication and Encryption Root CA 2005:PN"
# Issuer: CN=S-TRUST Authentication and Encryption Root CA 2005:PN,O=Deutscher Sparkassen Verlag
GmbH,L=Stuttgart,ST=Baden-Wuerttemberg (BW),C=DE
# Serial Number:37:19:18:e6:53:54:7c:1a:b5:b8:cb:59:5a:db:35:b7
# Subject: CN=S-TRUST Authentication and Encryption Root CA 2005:PN,O=Deutscher Sparkassen Verlag
GmbH,L=Stuttgart,ST=Baden-Wuerttemberg (BW),C=DE
# Not Valid Before: Wed Jun 22 00:00:00 2005
# Not Valid After: Fri Jun 21 23:59:59 2030
# Fingerprint (MD5): 04:4b:fd:c9:6c:da:2a:32:85:7c:59:84:61:46:8a:64
# Fingerprint (SHA1): be:b5:a9:95:74:6b:9e:df:73:8b:56:e6:df:43:7a:77:be:10:6b:81
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "S-TRUST Authentication and Encryption Root CA 2005:PN"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\256\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\040\060\036\006\003\125\004\010\023\027\102\141\144\145\156
\055\127\165\145\162\164\164\145\155\142\145\162\147\040\050\102
\127\051\061\022\060\020\006\003\125\004\007\023\011\123\164\165
\164\164\147\141\162\164\061\051\060\047\006\003\125\004\012\023
\040\104\145\165\164\163\143\150\145\162\040\123\160\141\162\153
\141\163\163\145\156\040\126\145\162\154\141\147\040\107\155\142
\110\061\076\060\074\006\003\125\004\003\023\065\123\055\124\122
\125\123\124\040\101\165\164\150\145\156\164\151\143\141\164\151
\157\156\040\141\156\144\040\105\156\143\162\171\160\164\151\157
\156\040\122\157\157\164\040\103\101\040\062\060\060\065\072\120
```

\116
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\256\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\040\060\036\006\003\125\004\010\023\027\102\141\144\145\156
\055\127\165\145\162\164\164\145\155\142\145\162\147\040\050\102
\127\051\061\022\060\020\006\003\125\004\007\023\011\123\164\165
\164\164\147\141\162\164\061\051\060\047\006\003\125\004\012\023
\040\104\145\165\164\163\143\150\145\162\040\123\160\141\162\153
\141\163\163\145\156\040\126\145\162\154\141\147\040\107\155\142
\110\061\076\060\074\006\003\125\004\003\023\065\123\055\124\122
\125\123\124\040\101\165\164\150\145\156\164\151\143\141\164\151
\157\156\040\141\156\144\040\105\156\143\162\171\160\164\151\157
\156\040\122\157\157\164\040\103\101\040\062\060\060\065\072\120
\116
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\067\031\030\346\123\124\174\032\265\270\313\131\132\333
\065\267
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\173\060\202\003\143\240\003\002\001\002\002\020\067
\031\030\346\123\124\174\032\265\270\313\131\132\333\065\267\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\201
\256\061\013\060\011\006\003\125\004\006\023\002\104\105\061\040
\060\036\006\003\125\004\010\023\027\102\141\144\145\156\055\127
\165\145\162\164\164\145\155\142\145\162\147\040\050\102\127\051
\061\022\060\020\006\003\125\004\007\023\011\123\164\165\164\164
\147\141\162\164\061\051\060\047\006\003\125\004\012\023\040\104
\145\165\164\163\143\150\145\162\040\123\160\141\162\153\141\163
\163\145\156\040\126\145\162\154\141\147\040\107\155\142\110\061
\076\060\074\006\003\125\004\003\023\065\123\055\124\122\125\123
\124\040\101\165\164\150\145\156\164\151\143\141\164\151\157\156
\040\141\156\144\040\105\156\143\162\171\160\164\151\157\156\040
\122\157\157\164\040\103\101\040\062\060\060\065\072\120\116\060
\036\027\015\060\065\060\066\062\062\060\060\060\060\060\060\132
\027\015\063\060\060\066\062\061\062\063\065\071\065\071\132\060
\201\256\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\040\060\036\006\003\125\004\010\023\027\102\141\144\145\156\055
\127\165\145\162\164\164\145\155\142\145\162\147\040\050\102\127
\051\061\022\060\020\006\003\125\004\007\023\011\123\164\165\164
\164\147\141\162\164\061\051\060\047\006\003\125\004\012\023\040
\104\145\165\164\163\143\150\145\162\040\123\160\141\162\153\141
\163\163\145\156\040\126\145\162\154\141\147\040\107\155\142\110
\061\076\060\074\006\003\125\004\003\023\065\123\055\124\122\125

\123\124\040\101\165\164\150\145\156\164\151\143\141\164\151\157
\156\040\141\156\144\040\105\156\143\162\171\160\164\151\157\156
\040\122\157\157\164\040\103\101\040\062\060\060\065\072\120\116
\060\202\001\042\060\015\006\011\052\206\110\206\367\015\001\001
\001\005\000\003\202\001\017\000\060\202\001\012\002\202\001\001
\000\331\265\112\301\323\063\352\323\106\263\321\342\114\322\365
\266\203\320\157\325\030\351\223\257\047\216\023\315\265\045\066
\120\064\022\144\051\241\125\341\072\140\223\236\050\311\343\363
\233\341\004\260\043\277\225\212\216\133\033\101\177\132\303\350
\115\114\325\044\026\076\207\110\324\047\256\346\367\123\035\273
\014\000\357\076\141\161\255\277\072\172\130\037\224\075\134\201
\325\325\157\337\270\233\322\365\345\313\203\162\222\302\123\262
\202\002\353\255\255\137\026\055\222\123\166\361\211\266\054\365
\301\057\340\247\112\157\240\060\152\062\353\232\164\003\150\170
\023\235\312\057\233\013\035\276\317\165\015\046\227\233\307\365
\136\012\237\170\337\263\274\354\232\272\357\125\217\033\232\246
\007\143\051\027\131\142\011\052\171\007\167\245\340\321\027\151
\351\133\335\366\220\253\342\230\012\000\321\045\155\236\327\205
\207\057\222\361\321\166\203\117\013\072\131\067\050\057\063\247
\027\120\326\040\013\012\364\046\371\237\070\347\055\244\270\233
\211\215\255\255\311\152\175\211\027\273\366\177\200\203\172\346
\355\002\003\001\000\001\243\201\222\060\201\217\060\022\006\003
\125\035\023\001\001\377\004\010\060\006\001\001\377\002\001\000
\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006
\060\051\006\003\125\035\021\004\042\060\040\244\036\060\034\061
\032\060\030\006\003\125\004\003\023\021\123\124\122\157\156\154
\151\156\145\061\055\062\060\064\070\055\065\060\035\006\003\125
\035\016\004\026\004\024\017\312\036\134\171\340\242\363\051\266
\322\205\263\013\112\265\145\354\153\122\060\037\006\003\125\035
\043\004\030\060\026\200\024\017\312\036\134\171\340\242\363\051
\266\322\205\263\013\112\265\145\354\153\122\060\015\006\011\052
\206\110\206\367\015\001\001\005\005\000\003\202\001\001\000\257
\001\360\355\031\074\050\350\115\134\273\245\143\034\210\063\003
\247\000\207\244\037\040\253\326\034\343\006\037\227\176\124\275
\267\321\262\311\325\332\200\354\027\327\212\365\173\302\000\366
\351\021\157\204\240\132\045\061\342\211\371\244\000\077\061\150
\056\325\075\350\156\346\325\035\074\077\262\275\237\167\353\235
\323\214\272\300\327\266\115\354\123\234\017\004\156\352\065\147
\127\343\012\145\173\220\072\341\117\076\303\000\222\172\273\005
\211\163\214\313\246\115\300\373\366\002\326\260\007\243\003\302
\047\100\237\014\344\205\202\055\257\232\102\035\320\307\215\370
\100\356\235\006\127\034\331\242\330\200\024\376\341\143\055\062
\207\325\224\122\226\072\106\306\161\226\075\367\230\016\262\221
\252\217\332\364\116\044\000\071\125\350\255\027\271\323\064\053
\112\251\100\314\027\052\125\145\101\164\102\176\365\300\257\310
\223\255\362\030\133\075\211\014\333\107\071\044\370\340\114\362
\037\260\075\012\312\005\116\211\041\032\343\052\231\254\374\177
\241\361\017\033\037\075\236\004\203\335\226\331\035\072\224

```
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Trust for "S-TRUST Authentication and Encryption Root CA 2005:PN"
# Issuer: CN=S-TRUST Authentication and Encryption Root CA 2005:PN,O=Deutscher Sparkassen Verlag
GmbH,L=Stuttgart,ST=Baden-Wuerttemberg (BW),C=DE
# Serial Number:37:19:18:e6:53:54:7c:1a:b5:b8:cb:59:5a:db:35:b7
# Subject: CN=S-TRUST Authentication and Encryption Root CA 2005:PN,O=Deutscher Sparkassen Verlag
GmbH,L=Stuttgart,ST=Baden-Wuerttemberg (BW),C=DE
# Not Valid Before: Wed Jun 22 00:00:00 2005
# Not Valid After: Fri Jun 21 23:59:59 2030
# Fingerprint (MD5): 04:4b:fd:c9:6c:da:2a:32:85:7c:59:84:61:46:8a:64
#
 Fingerprint (SHA1): be:b5:a9:95:74:6b:9e:df:73:8b:56:e6:df:43:7a:77:be:10:6b:81
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "S-TRUST Authentication and Encryption Root CA 2005:PN"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\276\265\251\225\164\153\236\337\163\213\126\346\337\103\172\167
\276\020\153\201
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\004\113\375\311\154\332\052\062\205\174\131\204\141\106\212\144
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\256\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\040\060\036\006\003\125\004\010\023\027\102\141\144\145\156
\055\127\165\145\162\164\164\145\155\142\145\162\147\040\050\102
\127\051\061\022\060\020\006\003\125\004\007\023\011\123\164\165
\164\164\147\141\162\164\061\051\060\047\006\003\125\004\012\023
\040\104\145\165\164\163\143\150\145\162\040\123\160\141\162\153
\141\163\163\145\156\040\126\145\162\154\141\147\040\107\155\142
\110\061\076\060\074\006\003\125\004\003\023\065\123\055\124\122
\125\123\124\040\101\165\164\150\145\156\164\151\143\141\164\151
\157\156\040\141\156\144\040\105\156\143\162\171\160\164\151\157
\156\040\122\157\157\164\040\103\101\040\062\060\060\065\072\120
\116
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\067\031\030\346\123\124\174\032\265\270\313\131\132\333
\065\267
```

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END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "GeoTrust Primary Certification Authority"
# Issuer: CN=GeoTrust Primary Certification Authority,O=GeoTrust Inc.,C=US
# Serial Number:18:ac:b5:6a:fd:69:b6:15:3a:63:6c:af:da:fa:c4:a1
# Subject: CN=GeoTrust Primary Certification Authority,O=GeoTrust Inc.,C=US
# Not Valid Before: Mon Nov 27 00:00:00 2006
# Not Valid After: Wed Jul 16 23:59:59 2036
#
 Fingerprint (MD5): 02:26:c3:01:5e:08:30:37:43:a9:d0:7d:cf:37:e6:bf
# Fingerprint (SHA1): 32:3c:11:8e:1b:f7:b8:b6:52:54:e2:e2:10:0d:d6:02:90:37:f0:96
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Primary Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\130\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165
\163\164\040\111\156\143\056\061\061\060\057\006\003\125\004\003
\023\050\107\145\157\124\162\165\163\164\040\120\162\151\155\141
\162\171\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\130\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165
\163\164\040\111\156\143\056\061\061\060\057\006\003\125\004\003
\023\050\107\145\157\124\162\165\163\164\040\120\162\151\155\141
\162\171\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\030\254\265\152\375\151\266\025\072\143\154\257\332\372
\304\241
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\174\060\202\002\144\240\003\002\001\002\002\020\030
\254\265\152\375\151\266\025\072\143\154\257\332\372\304\241\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\130
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\061\013\060\011\006\003\125\004\006\023\002\125\123\061\026\060
\024\006\003\125\004\012\023\015\107\145\157\124\162\165\163\164
\040\111\156\143\056\061\061\060\057\006\003\125\004\003\023\050
\107\145\157\124\162\165\163\164\040\120\162\151\155\141\162\171
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\060\036\027\015\060\066\061\061
\062\067\060\060\060\060\060\060\132\027\015\063\066\060\067\061
\066\062\063\065\071\065\071\132\060\130\061\013\060\011\006\003
\125\004\006\023\002\125\123\061\026\060\024\006\003\125\004\012
\023\015\107\145\157\124\162\165\163\164\040\111\156\143\056\061
\061\060\057\006\003\125\004\003\023\050\107\145\157\124\162\165
\163\164\040\120\162\151\155\141\162\171\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\060\202\001\042\060\015\006\011\052\206\110\206\367\015
\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202
\001\001\000\276\270\025\173\377\324\174\175\147\255\203\144\173
\310\102\123\055\337\366\204\010\040\141\326\001\131\152\234\104
\021\257\357\166\375\225\176\316\141\060\273\172\203\137\002\275
\001\146\312\356\025\215\157\241\060\234\275\241\205\236\224\072
\363\126\210\000\061\317\330\356\152\226\002\331\355\003\214\373
\165\155\347\352\270\125\026\005\026\232\364\340\136\261\210\300
\144\205\134\025\115\210\307\267\272\340\165\351\255\005\075\235
\307\211\110\340\273\050\310\003\341\060\223\144\136\122\300\131
\160\042\065\127\210\212\361\225\012\203\327\274\061\163\001\064
\355\357\106\161\340\153\002\250\065\162\153\227\233\146\340\313
\034\171\137\330\032\004\150\036\107\002\346\235\140\342\066\227
\001\337\316\065\222\337\276\147\307\155\167\131\073\217\235\326
\220\025\224\274\102\064\020\301\071\371\261\047\076\176\326\212
\165\305\262\257\226\323\242\336\233\344\230\276\175\341\351\201
\255\266\157\374\327\016\332\340\064\260\015\032\167\347\343\010
\230\357\130\372\234\204\267\066\257\302\337\254\322\364\020\006
\160\161\065\002\003\001\000\001\243\102\060\100\060\017\006\003
\125\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006
\003\125\035\017\001\001\377\004\004\003\002\001\006\060\035\006
\003\125\035\016\004\026\004\024\054\325\120\101\227\025\213\360
\217\066\141\133\112\373\153\331\231\311\063\222\060\015\006\011
\052\206\110\206\367\015\001\001\005\005\000\003\202\001\001\000
\132\160\177\054\335\267\064\117\365\206\121\251\046\276\113\270
\252\361\161\015\334\141\307\240\352\064\036\172\167\017\004\065
\350\047\217\154\220\277\221\026\044\106\076\112\116\316\053\026
\325\013\122\035\374\037\147\242\002\105\061\117\316\363\372\003
\247\171\235\123\152\331\332\143\072\370\200\327\323\231\341\245
\341\276\324\125\161\230\065\072\276\223\352\256\255\102\262\220
\157\340\374\041\115\065\143\063\211\111\326\233\116\312\307\347
\116\011\000\367\332\307\357\231\142\231\167\266\225\042\136\212
\240\253\364\270\170\230\312\070\031\231\311\162\236\170\315\113
\254\257\031\240\163\022\055\374\302\101\272\201\221\332\026\132
\061\267\371\264\161\200\022\110\231\162\163\132\131\123\301\143

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\122\063\355\247\311\322\071\002\160\372\340\261\102\146\051\252
\233\121\355\060\124\042\024\137\331\253\035\301\344\224\360\370
\365\053\367\352\312\170\106\326\270\221\375\246\015\053\032\024
\001\076\200\360\102\240\225\007\136\155\315\314\113\244\105\215
\253\022\350\263\336\132\345\240\174\350\017\042\035\132\351\131
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Trust for "GeoTrust Primary Certification Authority"
# Issuer: CN=GeoTrust Primary Certification Authority,O=GeoTrust Inc.,C=US
# Serial Number:18:ac:b5:6a:fd:69:b6:15:3a:63:6c:af:da:fa:c4:a1
# Subject: CN=GeoTrust Primary Certification Authority,O=GeoTrust Inc.,C=US
# Not Valid Before: Mon Nov 27 00:00:00 2006
# Not Valid After: Wed Jul 16 23:59:59 2036
# Fingerprint (MD5): 02:26:c3:01:5e:08:30:37:43:a9:d0:7d:cf:37:e6:bf
# Fingerprint (SHA1): 32:3c:11:8e:1b:f7:b8:b6:52:54:e2:e2:10:0d:d6:02:90:37:f0:96
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Primary Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\062\074\021\216\033\367\270\266\122\124\342\342\020\015\326\002
\220\067\360\226
END
CKA_CERT_MD5_HASH
 MULTILINE_OCTAL
\002\046\303\001\136\010\060\067\103\251\320\175\317\067\346\277
END
CKA_ISSUER MULTILINE_OCTAL
\060\130\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165
\163\164\040\111\156\143\056\061\061\060\057\006\003\125\004\003
\023\050\107\145\157\124\162\165\163\164\040\120\162\151\155\141
\162\171\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\030\254\265\152\375\151\266\025\072\143\154\257\332\372
\304\241
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
```

CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "thawte Primary Root CA"
Issuer: CN=thawte Primary Root CA,OU=(c) 2006 thawte\, Inc. - For authorized use only,OU=Certification Services Division,O=thawte\, Inc.,C=US
Serial Number:34:4e:d5:57:20:d5:ed:ec:49:f4:2f:ce:37:db:2b:6d
Subject: CN=thawte Primary Root CA,OU=(c) 2006 thawte\, Inc. - For authorized use only,OU=Certification Services Division,O=thawte\, Inc.,C=US
Not Valid Before: Fri Nov 17 00:00:00 2006
Not Valid After: Wed Jul 16 23:59:59 2036
Fingerprint (MD5): 8c:ca:dc:0b:22:ce:f5:be:72:ac:41:1a:11:a8:d8:12
Fingerprint (SHA1): 91:c6:d6:ee:3e:8a:c8:63:84:e5:48:c2:99:29:5c:75:6c:81:7b:81
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "thawte Primary Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\251\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\025\060\023\006\003\125\004\012\023\014\164\150\141\167\164
\145\054\040\111\156\143\056\061\050\060\046\006\003\125\004\013
\023\037\103\145\162\164\151\146\151\143\141\164\151\157\156\040
\123\145\162\166\151\143\145\163\040\104\151\166\151\163\151\157
\156\061\070\060\066\006\003\125\004\013\023\057\050\143\051\040
\062\060\060\066\040\164\150\141\167\164\145\054\040\111\156\143
\056\040\055\040\106\157\162\040\141\165\164\150\157\162\151\172
\145\144\040\165\163\145\040\157\156\154\171\061\037\060\035\006
\003\125\004\003\023\026\164\150\141\167\164\145\040\120\162\151
\155\141\162\171\040\122\157\157\164\040\103\101
END
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\251\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\025\060\023\006\003\125\004\012\023\014\164\150\141\167\164
\145\054\040\111\156\143\056\061\050\060\046\006\003\125\004\013
\023\037\103\145\162\164\151\146\151\143\141\164\151\157\156\040
\123\145\162\166\151\143\145\163\040\104\151\166\151\163\151\157
\156\061\070\060\066\006\003\125\004\013\023\057\050\143\051\040
\062\060\060\066\040\164\150\141\167\164\145\054\040\111\156\143
\056\040\055\040\106\157\162\040\141\165\164\150\157\162\151\172
\145\144\040\165\163\145\040\157\156\154\171\061\037\060\035\006
\003\125\004\003\023\026\164\150\141\167\164\145\040\120\162\151
\155\141\162\171\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER

MULTILINE_OCTAL
\002\020\064\116\325\127\040\325\355\354\111\364\057\316\067\333
\053\155
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\040\060\202\003\010\240\003\002\001\002\002\020\064
\116\325\127\040\325\355\354\111\364\057\316\067\333\053\155\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\201
\251\061\013\060\011\006\003\125\004\006\023\002\125\123\061\025
\060\023\006\003\125\004\012\023\014\164\150\141\167\164\145\054
\040\111\156\143\056\061\050\060\046\006\003\125\004\013\023\037
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\123\145
\162\166\151\143\145\163\040\104\151\166\151\163\151\157\156\061
\070\060\066\006\003\125\004\013\023\057\050\143\051\040\062\060
\060\066\040\164\150\141\167\164\145\054\040\111\156\143\056\040
\055\040\106\157\162\040\141\165\164\150\157\162\151\172\145\144
\040\165\163\145\040\157\156\154\171\061\037\060\035\006\003\125
\004\003\023\026\164\150\141\167\164\145\040\120\162\151\155\141
\162\171\040\122\157\157\164\040\103\101\060\036\027\015\060\066
\061\061\061\067\060\060\060\060\060\060\132\027\015\063\066\060
\067\061\066\062\063\065\071\065\071\132\060\201\251\061\013\060
\011\006\003\125\004\006\023\002\125\123\061\025\060\023\006\003
\125\004\012\023\014\164\150\141\167\164\145\054\040\111\156\143
\056\061\050\060\046\006\003\125\004\013\023\037\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\123\145\162\166\151\143
\145\163\040\104\151\166\151\163\151\157\156\061\070\060\066\006
\003\125\004\013\023\057\050\143\051\040\062\060\060\066\040\164
\150\141\167\164\145\054\040\111\156\143\056\040\055\040\106\157
\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163\145
\040\157\156\154\171\061\037\060\035\006\003\125\004\003\023\026
\164\150\141\167\164\145\040\120\162\151\155\141\162\171\040\122
\157\157\164\040\103\101\060\202\001\042\060\015\006\011\052\206
\110\206\367\015\001\001\001\005\000\003\202\001\017\000\060\202
\001\012\002\202\001\001\000\254\240\360\373\200\131\324\234\307
\244\317\235\241\131\163\011\020\105\014\015\054\156\150\361\154
\133\110\150\111\131\067\374\013\063\031\302\167\177\314\020\055
\225\064\034\346\353\115\011\247\034\322\270\311\227\066\002\267
\211\324\044\137\006\300\314\104\224\224\215\002\142\157\353\132
\335\021\215\050\232\134\204\220\020\172\015\275\164\146\057\152
\070\240\342\325\124\104\353\035\007\237\007\272\157\356\351\375
\116\013\051\365\076\204\240\001\361\234\253\370\034\176\211\244
\350\241\330\161\145\015\243\121\173\356\274\322\042\140\015\271
\133\235\337\272\374\121\133\013\257\230\262\351\056\351\004\350
\142\207\336\053\310\327\116\301\114\144\036\335\317\207\130\272
\112\117\312\150\007\035\034\235\112\306\325\057\221\314\174\161
\162\034\305\300\147\353\062\375\311\222\134\224\332\205\300\233
\277\123\175\053\011\364\214\235\221\037\227\152\122\313\336\011
\066\244\167\330\173\207\120\104\325\076\156\051\151\373\071\111

\046\036\011\245\200\173\100\055\353\350\047\205\311\376\141\375
\176\346\174\227\035\325\235\002\003\001\000\001\243\102\060\100
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001
\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001
\006\060\035\006\003\125\035\016\004\026\004\024\173\133\105\317
\257\316\313\172\375\061\222\032\152\266\363\106\353\127\110\120
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\003
\202\001\001\000\171\021\300\113\263\221\266\374\360\351\147\324
\015\156\105\276\125\350\223\322\316\003\077\355\332\045\260\035
\127\313\036\072\166\240\114\354\120\166\350\144\162\014\244\251
\361\270\213\326\326\207\204\273\062\345\101\021\300\167\331\263
\140\235\353\033\325\321\156\104\104\251\246\001\354\125\142\035
\167\270\134\216\110\111\174\234\073\127\021\254\255\163\067\216
\057\170\134\220\150\107\331\140\140\346\374\007\075\042\040\027
\304\367\026\351\304\330\162\371\310\163\174\337\026\057\025\251
\076\375\152\047\266\241\353\132\272\230\037\325\343\115\144\012
\235\023\310\141\272\365\071\034\207\272\270\275\173\042\177\366
\376\254\100\171\345\254\020\157\075\217\033\171\166\213\304\067
\263\041\030\204\345\066\000\353\143\040\231\271\351\376\063\004
\273\101\310\301\002\371\104\143\040\236\201\316\102\323\326\077
\054\166\323\143\234\131\335\217\246\341\016\240\056\101\367\056
\225\107\317\274\375\063\363\366\013\141\176\176\221\053\201\107
\302\047\060\356\247\020\135\067\217\134\071\053\344\004\360\173
\215\126\214\150
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "thawte Primary Root CA"
Issuer: CN=thawte Primary Root CA,OU=(c) 2006 thawte\, Inc. - For authorized use only,OU=Certification Services Division,O=thawte\, Inc.,C=US
#
 Serial Number:34:4e:d5:57:20:d5:ed:ec:49:f4:2f:ce:37:db:2b:6d
Subject: CN=thawte Primary Root CA,OU=(c) 2006 thawte\, Inc. - For authorized use only,OU=Certification Services Division,O=thawte\, Inc.,C=US
Not Valid Before: Fri Nov 17 00:00:00 2006
Not Valid After: Wed Jul 16 23:59:59 2036
Fingerprint (MD5): 8c:ca:dc:0b:22:ce:f5:be:72:ac:41:1a:11:a8:d8:12
Fingerprint (SHA1): 91:c6:d6:ee:3e:8a:c8:63:84:e5:48:c2:99:29:5c:75:6c:81:7b:81
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "thawte Primary Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL

\221\306\326\356\076\212\310\143\204\345\110\302\231\051\134\165
\154\201\173\201
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\214\312\334\013\042\316\365\276\162\254\101\032\021\250\330\022
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\251\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\025\060\023\006\003\125\004\012\023\014\164\150\141\167\164
\145\054\040\111\156\143\056\061\050\060\046\006\003\125\004\013
\023\037\103\145\162\164\151\146\151\143\141\164\151\157\156\040
\123\145\162\166\151\143\145\163\040\104\151\166\151\163\151\157
\156\061\070\060\066\006\003\125\004\013\023\057\050\143\051\040
\062\060\060\066\040\164\150\141\167\164\145\054\040\111\156\143
\056\040\055\040\106\157\162\040\141\165\164\150\157\162\151\172
\145\144\040\165\163\145\040\157\156\154\171\061\037\060\035\006
\003\125\004\003\023\026\164\150\141\167\164\145\040\120\162\151
\155\141\162\171\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\064\116\325\127\040\325\355\354\111\364\057\316\067\333
\053\155
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "VeriSign Class 3 Public Primary
Certification Authority - G5"
Issuer: CN=VeriSign Class 3 Public Primary Certification Authority - G5,OU=(c) 2006 VeriSign\, Inc. - For authorized use only,OU=VeriSign Trust Network,O=VeriSign\, Inc.,C=US
Serial Number:18:da:d1:9e:26:7d:e8:bb:4a:21:58:cd:cc:6b:3b:4a
Subject: CN=VeriSign Class 3 Public Primary Certification Authority - G5,OU=(c) 2006 VeriSign\, Inc. - For authorized use only,OU=VeriSign Trust Network,O=VeriSign\, Inc.,C=US
Not Valid Before: Wed Nov 08 00:00:00 2006
Not Valid After: Wed Jul 16 23:59:59 2036
Fingerprint (MD5): cb:17:e4:31:67:3e:e2:09:fe:45:57:93:f3:0a:fa:1c
Fingerprint (SHA1): 4e:b6:d5:78:49:9b:1c:cf:5f:58:1e:ad:56:be:3d:9b:67:44:a5:e5
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "VeriSign Class 3 Public Primary Certification Authority - G5"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

\060\201\312\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\027\060\025\006\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\061\050\143\051\040\062\060\060\066\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040
\063\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\065
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\312\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\027\060\025\006\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\061\050\143\051\040\062\060\060\066\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040
\063\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\065
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\030\332\321\236\046\175\350\273\112\041\130\315\314\153
\073\112
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\323\060\202\003\273\240\003\002\001\002\002\020\030
\332\321\236\046\175\350\273\112\041\130\315\314\153\073\112\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\201
\312\061\013\060\011\006\003\125\004\006\023\002\125\123\061\027
\060\025\006\003\125\004\012\023\016\126\145\162\151\123\151\147
\156\054\040\111\156\143\056\061\037\060\035\006\003\125\004\013
\023\026\126\145\162\151\123\151\147\156\040\124\162\165\163\164
\040\116\145\164\167\157\162\153\061\072\060\070\006\003\125\004
\013\023\061\050\143\051\040\062\060\060\066\040\126\145\162\151
\123\151\147\156\054\040\111\156\143\056\040\055\040\106\157\162
\040\141\165\164\150\157\162\151\172\145\144\040\165\163\145\040

\157\156\154\171\061\105\060\103\006\003\125\004\003\023\074\126
\145\162\151\123\151\147\156\040\103\154\141\163\163\040\063\040
\120\165\142\154\151\143\040\120\162\151\155\141\162\171\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164
\150\157\162\151\164\171\040\055\040\107\065\060\036\027\015\060
\066\061\061\060\070\060\060\060\060\060\060\132\027\015\063\066
\060\067\061\066\062\063\065\071\065\071\132\060\201\312\061\013
\060\011\006\003\125\004\006\023\002\125\123\061\027\060\025\006
\003\125\004\012\023\016\126\145\162\151\123\151\147\156\054\040
\111\156\143\056\061\037\060\035\006\003\125\004\013\023\026\126
\145\162\151\123\151\147\156\040\124\162\165\163\164\040\116\145
\164\167\157\162\153\061\072\060\070\006\003\125\004\013\023\061
\050\143\051\040\062\060\060\066\040\126\145\162\151\123\151\147
\156\054\040\111\156\143\056\040\055\040\106\157\162\040\141\165
\164\150\157\162\151\172\145\144\040\165\163\145\040\157\156\154
\171\061\105\060\103\006\003\125\004\003\023\074\126\145\162\151
\123\151\147\156\040\103\154\141\163\163\040\063\040\120\165\142
\154\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171\040\055\040\107\065\060\202\001\042\060\015\006\011
\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017\000
\060\202\001\012\002\202\001\001\000\257\044\010\010\051\172\065
\236\140\014\252\347\113\073\116\334\174\274\074\105\034\273\053
\340\376\051\002\371\127\010\243\144\205\025\047\365\361\255\310
\061\211\135\042\350\052\252\246\102\263\217\370\271\125\267\261
\267\113\263\376\217\176\007\127\354\357\103\333\146\142\025\141
\317\140\015\244\330\336\370\340\303\142\010\075\124\023\353\111
\312\131\124\205\046\345\053\217\033\237\353\365\241\221\302\063
\111\330\103\143\152\122\113\322\217\350\160\121\115\321\211\151
\173\307\160\366\263\334\022\164\333\173\135\113\126\323\226\277
\025\167\241\260\364\242\045\362\257\034\222\147\030\345\364\006
\004\357\220\271\344\000\344\335\072\265\031\377\002\272\364\074
\356\340\213\353\067\213\354\364\327\254\362\366\360\075\257\335
\165\221\063\031\035\034\100\313\164\044\031\041\223\331\024\376
\254\052\122\307\217\325\004\111\344\215\143\107\210\074\151\203
\313\376\107\275\053\176\117\305\225\256\016\235\324\321\103\300
\147\163\343\024\010\176\345\077\237\163\270\063\012\317\135\077
\064\207\226\212\356\123\350\045\025\002\003\001\000\001\243\201
\262\060\201\257\060\017\006\003\125\035\023\001\001\377\004\005
\060\003\001\001\377\060\016\006\003\125\035\017\001\001\377\004
\004\003\002\001\006\060\155\006\010\053\006\001\005\005\007\001
\014\004\141\060\137\241\135\240\133\060\131\060\127\060\125\026
\011\151\155\141\147\145\057\147\151\146\060\041\060\037\060\007
\006\005\053\016\003\002\032\004\024\217\345\323\032\206\254\215
\216\153\303\317\200\152\324\110\030\054\173\031\056\060\045\026
\043\150\164\164\160\072\057\057\154\157\147\157\056\166\145\162
\151\163\151\147\156\056\143\157\155\057\166\163\154\157\147\157
\056\147\151\146\060\035\006\003\125\035\016\004\026\004\024\177

\323\145\247\302\335\354\273\360\060\011\363\103\071\372\002\257
\063\061\063\060\015\006\011\052\206\110\206\367\015\001\001\005
\005\000\003\202\001\001\000\223\044\112\060\137\142\317\330\032
\230\057\075\352\334\231\055\275\167\366\245\171\042\070\354\304
\247\240\170\022\255\142\016\105\160\144\305\347\227\146\055\230
\011\176\137\257\326\314\050\145\362\001\252\010\032\107\336\371
\371\174\222\132\010\151\040\015\331\076\155\156\074\015\156\330
\346\006\221\100\030\271\370\301\355\337\333\101\252\340\226\040
\311\315\144\025\070\201\311\224\356\242\204\051\013\023\157\216
\333\014\335\045\002\333\244\213\031\104\322\101\172\005\151\112
\130\117\140\312\176\202\152\013\002\252\045\027\071\265\333\177
\347\204\145\052\225\212\275\206\336\136\201\026\203\055\020\314
\336\375\250\202\052\155\050\037\015\013\304\345\347\032\046\031
\341\364\021\157\020\265\225\374\347\102\005\062\333\316\235\121
\136\050\266\236\205\323\133\357\245\175\105\100\162\216\267\016
\153\016\006\373\063\065\110\161\270\235\047\213\304\145\137\015
\206\166\234\104\172\366\225\134\366\135\062\010\063\244\124\266
\030\077\150\134\362\102\112\205\070\124\203\137\321\350\054\362
\254\021\326\250\355\143\152
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL
CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "VeriSign Class 3 Public Primary Certification Authority - G5"
Issuer: CN=VeriSign Class 3 Public Primary Certification Authority - G5,OU=(c) 2006 VeriSign\, Inc. - For authorized use only,OU=VeriSign Trust Network,O=VeriSign\, Inc.,C=US
Serial Number:18:da:d1:9e:26:7d:e8:bb:4a:21:58:cd:cc:6b:3b:4a
Subject: CN=VeriSign Class 3 Public Primary Certification Authority - G5,OU=(c) 2006 VeriSign\, Inc. - For authorized use only,OU=VeriSign Trust Network,O=VeriSign\, Inc.,C=US
Not Valid Before: Wed Nov 08 00:00:00 2006
Not Valid After: Wed Jul 16 23:59:59 2036
Fingerprint (MD5): cb:17:e4:31:67:3e:e2:09:fe:45:57:93:f3:0a:fa:1c
Fingerprint (SHA1): 4e:b6:d5:78:49:9b:1c:cf:5f:58:1e:ad:56:be:3d:9b:67:44:a5:e5
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "VeriSign Class 3 Public Primary Certification Authority - G5"
CKA_CERT_SHA1_HASH
MULTILINE_OCTAL
\116\266\325\170\111\233\034\317\137\130\036\255\126\276\075\233
\147\104\245\345
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL

\313\027\344\061\147\076\342\011\376\105\127\223\363\012\372\034
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\312\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\027\060\025\006\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\061\050\143\051\040\062\060\060\066\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040
\063\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\065
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\030\332\321\236\046\175\350\273\112\041\130\315\314\153
\073\112
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Swisscom Root CA 1"
Issuer: CN=Swisscom Root CA 1,OU=Digital Certificate Services,O=Swisscom,C=ch
Serial Number:5c:0b:85:5c:0b:e7:59:41:df:57:cc:3f:7f:9d:a8:36
Subject: CN=Swisscom Root CA 1,OU=Digital Certificate Services,O=Swisscom,C=ch
Not Valid Before: Thu Aug 18 12:06:20 2005
Not Valid After: Mon Aug 18 22:06:20 2025
Fingerprint (MD5): f8:38:7c:77:88:df:2c:16:68:2e:c2:e2:52:4b:b8:f9
Fingerprint (SHA1): 5f:3a:fc:0a:8b:64:f6:86:67:34:74:df:7e:a9:a2:fe:f9:fa:7a:51
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN
 CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Swisscom Root CA 1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\144\061\013\060\011\006\003\125\004\006\023\002\143\150\061
\021\060\017\006\003\125\004\012\023\010\123\167\151\163\163\143
\157\155\061\045\060\043\006\003\125\004\013\023\034\104\151\147
\151\164\141\154\040\103\145\162\164\151\146\151\143\141\164\145

\040\123\145\162\166\151\143\145\163\061\033\060\031\006\003\125
\004\003\023\022\123\167\151\163\163\143\157\155\040\122\157\157
\164\040\103\101\040\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\144\061\013\060\011\006\003\125\004\006\023\002\143\150\061
\021\060\017\006\003\125\004\012\023\010\123\167\151\163\163\143
\157\155\061\045\060\043\006\003\125\004\013\023\034\104\151\147
\151\164\141\154\040\103\145\162\164\151\146\151\143\141\164\145
\040\123\145\162\166\151\143\145\163\061\033\060\031\006\003\125
\004\003\023\022\123\167\151\163\163\143\157\155\040\122\157\157
\164\040\103\101\040\061
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\134\013\205\134\013\347\131\101\337\127\314\077\177\235
\250\066
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\331\060\202\003\301\240\003\002\001\002\002\020\134
\013\205\134\013\347\131\101\337\127\314\077\177\235\250\066\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\144
\061\013\060\011\006\003\125\004\006\023\002\143\150\061\021\060
\017\006\003\125\004\012\023\010\123\167\151\163\163\143\157\155
\061\045\060\043\006\003\125\004\013\023\034\104\151\147\151\164
\141\154\040\103\145\162\164\151\146\151\143\141\164\145\040\123
\145\162\166\151\143\145\163\061\033\060\031\006\003\125\004\003
\023\022\123\167\151\163\163\143\157\155\040\122\157\157\164\040
\103\101\040\061\060\036\027\015\060\065\060\070\061\070\061\062
\060\066\062\060\132\027\015\062\065\060\070\061\070\062\062\060
\066\062\060\132\060\144\061\013\060\011\006\003\125\004\006\023
\002\143\150\061\021\060\017\006\003\125\004\012\023\010\123\167
\151\163\163\143\157\155\061\045\060\043\006\003\125\004\013\023
\034\104\151\147\151\164\141\154\040\103\145\162\164\151\146\151
\143\141\164\145\040\123\145\162\166\151\143\145\163\061\033\060
\031\006\003\125\004\003\023\022\123\167\151\163\163\143\157\155
\040\122\157\157\164\040\103\101\040\061\060\202\002\042\060\015
\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\002
\017\000\060\202\002\012\002\202\002\001\000\320\271\260\250\014
\331\273\077\041\370\033\325\063\223\200\026\145\040\165\262\075
\233\140\155\106\310\214\061\157\027\303\372\232\154\126\355\074
\305\221\127\303\315\253\226\111\220\052\031\113\036\243\155\127
\335\361\053\142\050\165\105\136\252\326\133\372\013\045\330\241
\026\371\034\304\056\346\225\052\147\314\320\051\156\074\205\064
\070\141\111\261\000\237\326\072\161\137\115\155\316\137\271\251
\344\211\177\152\122\372\312\233\362\334\251\371\235\231\107\077
\116\051\137\264\246\215\135\173\013\231\021\003\003\376\347\333

\333\243\377\035\245\315\220\036\001\037\065\260\177\000\333\220
\157\306\176\173\321\356\172\172\247\252\014\127\157\244\155\305
\023\073\260\245\331\355\062\034\264\136\147\213\124\334\163\207
\345\323\027\174\146\120\162\135\324\032\130\301\331\317\330\211
\002\157\247\111\264\066\135\320\244\336\007\054\266\165\267\050
\221\326\227\276\050\365\230\036\352\133\046\311\275\260\227\163
\332\256\221\046\353\150\301\371\071\025\326\147\113\012\155\117
\313\317\260\344\102\161\214\123\171\347\356\341\333\035\240\156
\035\214\032\167\065\134\026\036\053\123\037\064\213\321\154\374
\362\147\007\172\365\255\355\326\232\253\241\261\113\341\314\067
\137\375\177\315\115\256\270\037\234\103\371\052\130\125\103\105
\274\226\315\160\016\374\311\343\146\272\116\215\073\201\313\025
\144\173\271\224\350\135\063\122\205\161\056\117\216\242\006\021
\121\311\343\313\241\156\061\010\144\014\302\322\074\365\066\350
\327\320\016\170\043\040\221\311\044\052\145\051\133\042\367\041
\316\203\136\244\363\336\113\323\150\217\106\165\134\203\011\156
\051\153\304\160\214\365\235\327\040\057\377\106\322\053\070\302
\057\165\034\075\176\332\245\357\036\140\205\151\102\323\314\370
\143\376\036\103\071\205\246\266\143\101\020\263\163\036\274\323
\372\312\175\026\107\342\247\325\320\243\212\012\010\226\142\126
\156\064\333\331\002\271\060\165\343\004\322\347\217\302\260\021
\100\012\254\325\161\002\142\213\061\276\335\306\043\130\061\102
\103\055\164\371\306\236\246\212\017\351\376\277\203\346\103\127
\044\272\357\106\064\252\327\022\001\070\355\002\003\001\000\001
\243\201\206\060\201\203\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\206\060\035\006\003\125\035\041\004\026\060
\024\060\022\006\007\140\205\164\001\123\000\001\006\007\140\205
\164\001\123\000\001\060\022\006\003\125\035\023\001\001\377\004
\010\060\006\001\001\377\002\001\007\060\037\006\003\125\035\043
\004\030\060\026\200\024\003\045\057\336\157\202\001\072\134\054
\334\053\241\151\265\147\324\214\323\375\060\035\006\003\125\035
\016\004\026\004\024\003\045\057\336\157\202\001\072\134\054\334
\053\241\151\265\147\324\214\323\375\060\015\006\011\052\206\110
\206\367\015\001\001\005\005\000\003\202\002\001\000\065\020\313
\354\246\004\015\015\017\315\300\333\253\250\362\210\227\014\337
\223\057\115\174\100\126\061\172\353\244\017\140\315\172\363\276
\303\047\216\003\076\244\335\022\357\176\036\164\006\074\077\061
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\261\373\024\013\132\361\237\322\225\272\076\320\033\326\025\035
\243\276\206\325\333\017\300\111\144\273\056\120\031\113\322\044
\370\335\036\007\126\320\070\240\225\160\040\166\214\327\335\036
\336\237\161\304\043\357\203\023\134\243\044\025\115\051\100\074
\152\304\251\330\267\246\104\245\015\364\340\235\167\036\100\160
\046\374\332\331\066\344\171\344\265\077\274\233\145\276\273\021
\226\317\333\306\050\071\072\010\316\107\133\123\132\305\231\376

\135\251\335\357\114\324\306\245\255\002\346\214\007\022\036\157
\003\321\157\240\243\363\051\275\022\307\120\242\260\177\210\251
\231\167\232\261\300\245\071\056\134\174\151\342\054\260\352\067
\152\244\341\132\341\365\120\345\203\357\245\273\052\210\347\214
\333\375\155\136\227\031\250\176\146\165\153\161\352\277\261\307
\157\240\364\216\244\354\064\121\133\214\046\003\160\241\167\325
\001\022\127\000\065\333\043\336\016\212\050\231\375\261\020\157
\113\377\070\055\140\116\054\234\353\147\265\255\111\356\113\037
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\204\126\141\276\161\027\376\035\023\017\376\306\207\105\351\376
\062\240\032\015\023\244\224\125\161\245\026\213\272\312\211\260
\262\307\374\217\330\124\265\223\142\235\316\317\131\373\075\030
\316\052\313\065\025\202\135\377\124\042\133\161\122\373\267\311
\376\140\233\000\101\144\360\252\052\354\266\102\103\316\211\146
\201\310\213\237\071\124\003\045\323\026\065\216\204\320\137\372
\060\032\365\232\154\364\016\123\371\072\133\321\034
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Swisscom Root CA 1"
Issuer: CN=Swisscom Root CA 1,OU=Digital Certificate Services,O=Swisscom,C=ch
Serial Number:5c:0b:85:5c:0b:e7:59:41:df:57:cc:3f:7f:9d:a8:36
Subject: CN=Swisscom Root CA 1,OU=Digital Certificate Services,O=Swisscom,C=ch
Not Valid Before: Thu Aug 18 12:06:20 2005
Not Valid After: Mon Aug 18 22:06:20 2025
Fingerprint (MD5): f8:38:7c:77:88:df:2c:16:68:2e:c2:e2:52:4b:b8:f9
Fingerprint (SHA1): 5f:3a:fc:0a:8b:64:f6:86:67:34:74:df:7e:a9:a2:fe:f9:fa:7a:51
CKA_CLASS
 CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Swisscom Root CA 1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\137\072\374\012\213\144\366\206\147\064\164\337\176\251\242\376
\371\372\172\121
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\370\070\174\167\210\337\054\026\150\056\302\342\122\113\270\371
END
CKA_ISSUER MULTILINE_OCTAL
\060\144\061\013\060\011\006\003\125\004\006\023\002\143\150\061

\021\060\017\006\003\125\004\012\023\010\123\167\151\163\163\143
\157\155\061\045\060\043\006\003\125\004\013\023\034\104\151\147
\151\164\141\154\040\103\145\162\164\151\146\151\143\141\164\145
\040\123\145\162\166\151\143\145\163\061\033\060\031\006\003\125
\004\003\023\022\123\167\151\163\163\143\157\155\040\122\157\157
\164\040\103\101\040\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\134\013\205\134\013\347\131\101\337\127\314\077\177\235
\250\066
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION
 CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Microsec e-Szigno Root CA"
Issuer: CN=Microsec e-Szigno Root CA,OU=e-Szigno CA,O=Microsec Ltd.,L=Budapest,C=HU
Serial Number:cc:b8:e7:bf:4e:29:1a:fd:a2:dc:66:a5:1c:2c:0f:11
Subject: CN=Microsec e-Szigno Root CA,OU=e-Szigno CA,O=Microsec Ltd.,L=Budapest,C=HU
Not Valid Before: Wed Apr 06 12:28:44 2005
Not Valid After: Thu Apr 06 12:28:44 2017
Fingerprint (MD5): f0:96:b6:2f:c5:10:d5:67:8e:83:25:32:e8:5e:2e:e5
Fingerprint (SHA1): 23:88:c9:d3:71:cc:9e:96:3d:ff:7d:3c:a7:ce:fc:d6:25:ec:19:0d
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsec e-Szigno Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\162\061\013\060\011\006\003\125\004\006\023\002\110\125\061
\021\060\017\006\003\125\004\007\023\010\102\165\144\141\160\145
\163\164\061\026\060\024\006\003\125\004\012\023\015\115\151\143
\162\157\163\145\143\040\114\164\144\056\061\024\060\022\006\003
\125\004\013\023\013\145\055\123\172\151\147\156\157\040\103\101
\061\042\060\040\006\003\125\004\003\023\031\115\151\143\162\157
\163\145\143\040\145\055\123\172\151\147\156\157\040\122\157\157
\164\040\103\101
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\162\061\013\060\011\006\003\125\004\006\023\002\110\125\061
\021\060\017\006\003\125\004\007\023\010\102\165\144\141\160\145
\163\164\061\026\060\024\006\003\125\004\012\023\015\115\151\143

\162\157\163\145\143\040\114\164\144\056\061\024\060\022\006\003
\125\004\013\023\013\145\055\123\172\151\147\156\157\040\103\101
\061\042\060\040\006\003\125\004\003\023\031\115\151\143\162\157
\163\145\143\040\145\055\123\172\151\147\156\157\040\122\157\157
\164\040\103\101
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\021\000\314\270\347\277\116\051\032\375\242\334\146\245\034
\054\017\021
END
CKA_VALUE MULTILINE_OCTAL
\060\202\007\250\060\202\006\220\240\003\002\001\002\002\021\000
\314\270\347\277\116\051\032\375\242\334\146\245\034\054\017\021
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\162\061\013\060\011\006\003\125\004\006\023\002\110\125\061\021
\060\017\006\003\125\004\007\023\010\102\165\144\141\160\145\163
\164\061\026\060\024\006\003\125\004\012\023\015\115\151\143\162
\157\163\145\143\040\114\164\144\056\061\024\060\022\006\003\125
\004\013\023\013\145\055\123\172\151\147\156\157\040\103\101\061
\042\060\040\006\003\125\004\003\023\031\115\151\143\162\157\163
\145\143\040\145\055\123\172\151\147\156\157\040\122\157\157\164
\040\103\101\060\036\027\015\060\065\060\064\060\066\061\062\062
\070\064\064\132\027\015\061\067\060\064\060\066\061\062\062\070
\064\064\132\060\162\061\013\060\011\006\003\125\004\006\023\002
\110\125\061\021\060\017\006\003\125\004\007\023\010\102\165\144
\141\160\145\163\164\061\026\060\024\006\003\125\004\012\023\015
\115\151\143\162\157\163\145\143\040\114\164\144\056\061\024\060
\022\006\003\125\004\013\023\013\145\055\123\172\151\147\156\157
\040\103\101\061\042\060\040\006\003\125\004\003\023\031\115\151
\143\162\157\163\145\143\040\145\055\123\172\151\147\156\157\040
\122\157\157\164\040\103\101\060\202\001\042\060\015\006\011\052
\206\110\206\367\015\001\001\001\005\000\003\202\001\017\000\060
\202\001\012\002\202\001\001\000\355\310\000\325\201\173\315\070
\000\107\314\333\204\301\041\151\054\164\220\014\041\331\123\207
\355\076\103\104\123\257\253\370\200\233\074\170\215\324\215\256
\270\357\323\021\334\201\346\317\073\226\214\326\157\025\306\167
\176\241\057\340\137\222\266\047\327\166\232\035\103\074\352\331
\354\057\356\071\363\152\147\113\213\202\317\042\370\145\125\376
\054\313\057\175\110\172\075\165\371\252\240\047\273\170\302\006
\312\121\302\176\146\113\257\315\242\247\115\002\202\077\202\254
\205\306\341\017\220\107\231\224\012\161\162\223\052\311\246\300
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\334\101\037\311\213\161\326\124\024\343\213\124\170\077\276\364
\142\073\133\365\243\354\325\222\164\342\164\060\357\001\333\341
\324\253\231\233\052\153\370\275\246\034\206\043\102\137\354\111
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\001\004\133\060\131\060\050\006\010\053\006\001\005\005\007\060
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\160\072\057\057\167\167\167\056\145\055\163\172\151\147\156\157
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\164\164\160\072\057\057\167\167\167\056\145\055\163\172\151\147
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\143\162\157\163\145\143\045\062\060\145\055\123\172\151\147\156
\157\045\062\060\122\157\157\164\045\062\060\103\101\054\117\125
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\075\115\151\143\162\157\163\145\143\045\062\060\114\164\144\056
\054\114\075\102\165\144\141\160\145\163\164\054\103\075\110\125
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\115\151\143\162\157\163\145\143\040\145\055\123\172\151\147\156
\303\263\040\122\157\157\164\040\103\101\061\026\060\024\006\003
\125\004\013\014\015\145\055\123\172\151\147\156\303\263\040\110
\123\132\061\026\060\024\006\003\125\004\012\023\015\115\151\143
\162\157\163\145\143\040\113\146\164\056\061\021\060\017\006\003
\125\004\007\023\010\102\165\144\141\160\145\163\164\061\013\060
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\035\043\004\201\244\060\201\241\200\024\307\240\111\165\026\141
\204\333\061\113\204\322\361\067\100\220\357\116\334\367\241\166
\244\164\060\162\061\013\060\011\006\003\125\004\006\023\002\110
\125\061\021\060\017\006\003\125\004\007\023\010\102\165\144\141
\160\145\163\164\061\026\060\024\006\003\125\004\012\023\015\115
\151\143\162\157\163\145\143\040\114\164\144\056\061\024\060\022
\006\003\125\004\013\023\013\145\055\123\172\151\147\156\157\040
\103\101\061\042\060\040\006\003\125\004\003\023\031\115\151\143
\162\157\163\145\143\040\145\055\123\172\151\147\156\157\040\122
\157\157\164\040\103\101\202\021\000\314\270\347\277\116\051\032
\375\242\334\146\245\034\054\017\021\060\035\006\003\125\035\016
\004\026\004\024\307\240\111\165\026\141\204\333\061\113\204\322
\361\067\100\220\357\116\334\367\060\015\006\011\052\206\110\206
\367\015\001\001\005\005\000\003\202\001\001\000\323\023\234\146
\143\131\056\312\134\160\014\374\203\274\125\261\364\216\007\154
\146\047\316\301\073\040\251\034\273\106\124\160\356\132\314\240
\167\352\150\104\047\353\362\051\335\167\251\325\373\343\324\247
\004\304\225\270\013\341\104\150\140\007\103\060\061\102\141\345
\356\331\345\044\325\033\337\341\112\033\252\237\307\137\370\172
\021\352\023\223\000\312\212\130\261\356\355\016\115\264\327\250
\066\046\174\340\072\301\325\127\202\361\165\266\375\211\137\332
\363\250\070\237\065\006\010\316\042\225\276\315\325\374\276\133
\336\171\153\334\172\251\145\146\276\261\045\132\137\355\176\323
\254\106\155\114\364\062\207\264\040\004\340\154\170\260\167\321
\205\106\113\246\022\267\165\350\112\311\126\154\327\222\253\235
\365\111\070\322\117\123\343\125\220\021\333\230\226\306\111\362
\076\364\237\033\340\367\210\334\045\142\231\104\330\163\277\077
\060\363\014\067\076\324\302\050\200\163\261\001\267\235\132\226
\024\001\113\251\021\235\051\152\056\320\135\201\300\317\262\040
\103\307\003\340\067\116\135\012\334\131\040\045
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Microsec e-Szigno Root CA"
Issuer: CN=Microsec e-Szigno Root CA,OU=e-Szigno CA,O=Microsec Ltd.,L=Budapest,C=HU

```
# Serial Number:cc:b8:e7:bf:4e:29:1a:fd:a2:dc:66:a5:1c:2c:0f:11
# Subject: CN=Microsec e-Szigno Root CA,OU=e-Szigno CA,O=Microsec Ltd.,L=Budapest,C=HU
# Not Valid Before: Wed Apr 06 12:28:44 2005
# Not Valid After: Thu Apr 06 12:28:44 2017
# Fingerprint (MD5): f0:96:b6:2f:c5:10:d5:67:8e:83:25:32:e8:5e:2e:e5
# Fingerprint (SHA1): 23:88:c9:d3:71:cc:9e:96:3d:ff:7d:3c:a7:ce:fc:d6:25:ec:19:0d
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsec e-Szigno Root CA"
CKA_CERT_SHA1_HASH
 MULTILINE_OCTAL
\043\210\311\323\161\314\236\226\075\377\175\074\247\316\374\326
\045\354\031\015
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\360\226\266\057\305\020\325\147\216\203\045\062\350\136\056\345
END
CKA_ISSUER MULTILINE_OCTAL
\060\162\061\013\060\011\006\003\125\004\006\023\002\110\125\061
\021\060\017\006\003\125\004\007\023\010\102\165\144\141\160\145
\163\164\061\026\060\024\006\003\125\004\012\023\015\115\151\143
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\061\042\060\040\006\003\125\004\003\023\031\115\151\143\162\157
\163\145\143\040\145\055\123\172\151\147\156\157\040\122\157\157
\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\314\270\347\277\116\051\032\375\242\334\146\245\034
\054\017\021
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED
 CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "LGPKI"
# Issuer: OU=Application CA G2,O=LGPKI,C=JP
# Serial Number: 49 (0x31)
# Subject: OU=Application CA G2,O=LGPKI,C=JP
# Not Valid Before: Fri Mar 31 15:00:00 2006
# Not Valid After: Thu Mar 31 14:59:59 2016
# Fingerprint (MD5): f3:d7:52:a8:75:fd:18:ec:e1:7d:35:b1:70:6e:a5:9c
# Fingerprint (SHA1): 96:83:38:f1:13:e3:6a:7b:ab:dd:08:f7:77:63:91:a6:87:36:58:2e
```

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "LGPKI"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\016\060\014\006\003\125\004\012\023\005\114\107\120\113\111\061
\032\060\030\006\003\125\004\013\023\021\101\160\160\154\151\143
\141\164\151\157\156\040\103\101\040\107\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\016\060\014\006\003\125\004\012\023\005\114\107\120\113\111\061
\032\060\030\006\003\125\004\013\023\021\101\160\160\154\151\143
\141\164\151\157\156\040\103\101\040\107\062
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\001\061
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\240\060\202\002\210\240\003\002\001\002\002\001\061
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\071\061\013\060\011\006\003\125\004\006\023\002\112\120\061\016
\060\014\006\003\125\004\012\023\005\114\107\120\113\111\061\032
\060\030\006\003\125\004\013\023\021\101\160\160\154\151\143\141
\164\151\157\156\040\103\101\040\107\062\060\036\027\015\060\066
\060\063\063\061\061\065\060\060\060\060\132\027\015\061\066\060
\063\063\061\061\064\065\071\065\071\132\060\071\061\013\060\011
\006\003\125\004\006\023\002\112\120\061\016\060\014\006\003\125
\004\012\023\005\114\107\120\113\111\061\032\060\030\006\003\125
\004\013\023\021\101\160\160\154\151\143\141\164\151\157\156\040
\103\101\040\107\062\060\202\001\042\060\015\006\011\052\206\110
\206\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001
\012\002\202\001\001\000\271\065\306\020\370\333\150\333\007\304
\100\114\260\035\036\066\334\303\101\366\317\125\025\155\010\177
\134\306\150\125\345\347\127\361\226\121\346\341\115\170\017\156
\100\025\160\073\145\376\021\337\347\323\326\130\065\073\341\237
\002\374\224\122\106\056\263\236\140\233\002\236\311\202\322\366
\343\256\011\117\204\104\266\142\233\000\121\150\270\072\255\354
\144\321\062\113\351\224\104\203\264\016\316\041\211\153\260\066
\300\230\306\113\234\302\076\133\140\052\011\061\053\055\253\114
\336\261\240\375\130\126\302\203\035\040\274\304\204\011\207\173
\250\225\227\306\045\216\203\340\076\223\015\321\307\175\163\251
\250\374\031\000\100\056\042\270\172\063\101\365\170\375\132\161

\347\202\331\110\210\134\354\250\205\207\055\155\200\211\147\032
\151\276\020\300\132\216\355\210\175\076\157\054\070\153\067\316
\107\330\242\061\060\336\176\123\145\154\213\206\123\101\040\154
\275\110\245\176\257\000\132\126\022\130\201\321\334\211\131\371
\265\356\370\115\232\330\104\051\213\171\247\367\042\252\352\174
\134\264\026\210\040\015\002\003\001\000\001\243\201\262\060\201
\257\060\035\006\003\125\035\016\004\026\004\024\177\270\135\216
\304\030\153\306\175\314\056\351\256\316\064\347\027\135\340\241
\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006
\060\114\006\003\125\035\037\004\105\060\103\060\101\240\077\240
\075\244\073\060\071\061\013\060\011\006\003\125\004\006\023\002
\112\120\061\016\060\014\006\003\125\004\012\023\005\114\107\120
\113\111\061\032\060\030\006\003\125\004\013\023\021\101\160\160
\154\151\143\141\164\151\157\156\040\103\101\040\107\062\060\017
\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060
\037\006\003\125\035\043\004\030\060\026\200\024\177\270\135\216
\304\030\153\306\175\314\056\351\256\316\064\347\027\135\340\241
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\003
\202\001\001\000\074\330\163\066\100\006\110\112\124\031\365\047
\110\071\045\245\156\102\347\266\315\033\313\071\064\267\233\354
\117\052\276\167\344\312\204\374\035\353\233\042\100\325\364\373
\150\207\162\374\107\135\152\016\122\112\343\265\135\110\306\042
\226\346\063\155\155\253\366\315\327\313\044\132\214\250\105\236
\076\141\202\175\224\325\005\360\032\065\137\161\057\056\124\265
\101\005\357\206\015\122\357\234\230\033\361\054\114\072\321\363
\206\323\214\076\172\057\206\105\216\203\062\046\133\277\123\312
\016\121\126\334\232\302\132\060\031\015\247\236\325\252\233\040
\071\151\170\041\364\227\155\321\016\021\114\056\323\033\132\260
\371\227\170\134\052\217\122\145\356\114\102\045\302\067\060\016
\155\053\065\224\203\006\350\257\105\073\004\146\247\060\273\371
\340\041\073\143\156\175\104\135\072\152\123\357\021\027\044\375
\124\262\132\154\163\126\041\311\154\055\227\244\102\263\047\141
\005\041\143\155\352\050\274\117\032\157\102\334\230\253\125\323
\036\033\300\222\077\233\301\346\073\027\126\342\304\230\103\045
\356\266\313\000
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "LGPKI"
Issuer: OU=Application CA G2,O=LGPKI,C=JP
Serial Number: 49 (0x31)
Subject: OU=Application CA G2,O=LGPKI,C=JP
Not Valid Before: Fri Mar 31 15:00:00 2006
Not Valid After: Thu Mar 31 14:59:59 2016

```
# Fingerprint (MD5): f3:d7:52:a8:75:fd:18:ec:e1:7d:35:b1:70:6e:a5:9c
# Fingerprint (SHA1): 96:83:38:f1:13:e3:6a:7b:ab:dd:08:f7:77:63:91:a6:87:36:58:2e
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "LGPKI"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\226\203\070\361\023\343\152\173\253\335\010\367\167\143\221\246
\207\066\130\056
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\363\327\122\250\165\375\030\354\341\175\065\261\160\156\245\234
END
CKA_ISSUER
 MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\016\060\014\006\003\125\004\012\023\005\114\107\120\113\111\061
\032\060\030\006\003\125\004\013\023\021\101\160\160\154\151\143
\141\164\151\157\156\040\103\101\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\061
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "AC RAIZ DNIE"
# Issuer: CN=AC RAIZ DNIE,OU=DNIE,O=DIRECCION GENERAL DE LA POLICIA,C=ES
# Serial Number:d2:85:70:fd:ae:a7:d6:5f:11:84:15:c6:31:b5:cb
# Subject: CN=AC RAIZ DNIE,OU=DNIE,O=DIRECCION GENERAL DE LA POLICIA,C=ES
# Not Valid Before: Thu Feb 16 10:37:25 2006
# Not Valid After: Fri Feb 08 22:59:59 2036
# Fingerprint (MD5): 15:5e:f5:11:7a:a2:c1:15:0e:92:7e:66:fe:3b:84:c3
#
 Fingerprint (SHA1): b3:8f:ec:ec:0b:14:8a:a6:86:c3:d0:0f:01:ec:c8:84:8e:80:85:eb
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AC RAIZ DNIE"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\135\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\050\060\046\006\003\125\004\012\014\037\104\111\122\105\103\103
```

\111\117\116\040\107\105\116\105\122\101\114\040\104\105\040\114
\101\040\120\117\114\111\103\111\101\061\015\060\013\006\003\125
\004\013\014\004\104\116\111\105\061\025\060\023\006\003\125\004
\003\014\014\101\103\040\122\101\111\132\040\104\116\111\105
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\135\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\050\060\046\006\003\125\004\012\014\037\104\111\122\105\103\103
\111\117\116\040\107\105\116\105\122\101\114\040\104\105\040\114
\101\040\120\117\114\111\103\111\101\061\015\060\013\006\003\125
\004\013\014\004\104\116\111\105\061\025\060\023\006\003\125\004
\003\014\014\101\103\040\122\101\111\132\040\104\116\111\105
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\000\322\205\160\375\256\247\326\137\021\204\025\306\061
\265\313
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\277\060\202\003\247\240\003\002\001\002\002\020\000
\322\205\160\375\256\247\326\137\021\204\025\306\061\265\313\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\135
\061\013\060\011\006\003\125\004\006\023\002\105\123\061\050\060
\046\006\003\125\004\012\014\037\104\111\122\105\103\103\111\117
\116\040\107\105\116\105\122\101\114\040\104\105\040\114\101\040
\120\117\114\111\103\111\101\061\015\060\013\006\003\125\004\013
\014\004\104\116\111\105\061\025\060\023\006\003\125\004\003\014
\014\101\103\040\122\101\111\132\040\104\116\111\105\060\036\027
\015\060\066\060\062\061\066\061\060\063\067\062\065\132\027\015
\063\066\060\062\060\070\062\062\065\071\065\071\132\060\135\061
\013\060\011\006\003\125\004\006\023\002\105\123\061\050\060\046
\006\003\125\004\012\014\037\104\111\122\105\103\103\111\117\116
\040\107\105\116\105\122\101\114\040\104\105\040\114\101\040\120
\117\114\111\103\111\101\061\015\060\013\006\003\125\004\013\014
\004\104\116\111\105\061\025\060\023\006\003\125\004\003\014\014
\101\103\040\122\101\111\132\040\104\116\111\105\060\202\002\042
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\002\017\000\060\202\002\012\002\202\002\001\000\200\000\255
\014\303\243\040\007\243\143\377\367\064\240\315\356\152\124\010
\027\135\261\001\025\247\346\271\137\212\161\377\014\302\035\352
\067\363\336\223\177\326\005\115\204\262\325\327\034\014\364\304
\221\160\100\016\132\310\230\244\200\350\015\063\300\007\363\267
\365\254\241\070\172\300\146\124\044\374\122\314\060\052\362\303
\304\241\054\166\277\301\300\277\202\361\233\360\150\172\023\100
\310\227\274\034\045\007\010\012\267\226\357\314\051\124\340\346
\145\055\352\262\056\261\011\151\022\116\060\325\330\370\274\000
\200\057\115\223\017\315\056\127\033\063\273\237\060\116\304\245

\313\171\247\373\342\064\030\266\040\236\033\237\135\247\311\072
\255\105\144\263\030\316\021\022\234\155\036\125\105\050\204\234
\127\147\115\371\313\342\213\217\130\011\324\071\377\310\066\322
\070\342\014\145\177\025\016\175\301\007\335\251\042\337\221\000
\304\154\161\064\164\334\071\352\352\117\104\151\177\130\333\130
\012\122\161\053\354\251\035\120\164\063\371\051\152\372\376\231
\364\347\314\105\105\155\312\132\045\242\022\343\316\327\070\005
\071\360\032\011\365\166\131\316\142\157\172\064\015\054\321\274
\004\022\354\075\123\310\372\320\002\313\316\075\041\265\305\340
\071\063\145\317\071\123\311\233\106\371\235\063\363\131\200\010
\101\276\157\113\240\372\112\316\244\166\034\205\342\257\257\024
\235\145\254\367\177\227\344\063\111\246\257\276\316\053\067\361
\056\301\163\005\234\234\140\114\235\060\015\227\124\236\201\142
\273\347\340\057\367\024\007\024\251\167\221\351\334\221\225\216
\323\210\220\063\107\157\161\303\024\151\372\246\055\001\036\033
\352\323\056\342\177\013\334\317\347\042\360\361\101\243\001\222
\345\200\323\276\251\142\250\125\210\013\064\064\354\334\041\025
\252\357\326\042\136\211\365\121\222\023\052\157\200\026\331\261
\015\331\056\370\020\270\302\376\122\105\063\234\035\070\174\334
\025\151\064\163\277\240\054\273\021\173\224\315\370\067\055\157
\075\357\203\132\306\036\233\164\111\217\331\302\215\276\026\166
\120\310\132\321\045\026\366\366\314\214\234\132\060\236\145\276
\320\232\110\223\327\372\150\015\165\061\207\371\367\002\003\001
\000\001\243\173\060\171\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\001\001\377\060\016\006\003\125\035\017\001\001
\377\004\004\003\002\001\006\060\035\006\003\125\035\016\004\026
\004\024\216\105\364\237\163\305\377\057\033\005\333\001\107\140
\033\003\212\201\267\272\060\067\006\003\125\035\040\004\060\060
\056\060\054\006\004\125\035\040\000\060\044\060\042\006\010\053
\006\001\005\005\007\002\001\026\026\150\164\164\160\072\057\057
\167\167\167\056\144\156\151\145\056\145\163\057\144\160\143\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\003\202
\002\001\000\165\345\163\311\121\121\057\213\031\240\207\351\377
\256\066\066\246\374\101\037\343\036\327\161\140\031\306\157\232
\002\060\275\142\161\255\163\376\221\055\116\344\046\100\104\251
\256\170\046\043\061\151\334\232\163\226\036\111\121\013\340\357
\301\270\103\357\161\234\356\101\267\305\120\037\062\204\236\042
\206\361\367\037\217\331\255\053\116\332\227\050\227\273\226\232
\032\370\261\331\172\004\363\124\231\022\031\226\025\200\147\071
\377\002\137\172\374\125\102\120\132\346\271\242\377\270\250\142
\036\024\315\331\077\276\243\145\110\305\073\327\067\316\015\372
\050\220\332\277\371\343\121\107\045\175\112\323\147\115\207\252
\142\274\136\354\172\200\104\174\367\237\012\275\145\127\224\312
\362\021\146\326\122\177\344\072\160\165\004\315\073\227\324\066
\162\367\121\126\277\064\365\322\101\341\264\332\250\103\376\153
\022\111\022\264\135\317\042\102\226\214\010\043\046\214\262\020
\116\135\252\123\356\001\057\165\345\271\242\021\063\304\327\152
\375\370\016\312\156\202\331\347\273\131\043\116\265\371\021\035

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\057\153\043\365\173\021\040\352\101\022\220\062\106\333\061\073
\251\301\133\163\150\072\106\033\214\376\227\267\126\271\141\231
\314\116\360\203\372\067\361\336\034\235\034\161\213\003\223\303
\304\163\202\056\250\230\035\144\242\232\214\367\124\010\115\317
\352\201\313\365\133\011\231\143\257\165\214\226\370\171\065\325
\334\353\101\201\171\070\204\136\157\361\157\142\166\333\221\316
\132\205\140\071\035\133\342\052\057\103\045\333\302\172\044\323
\025\260\242\361\214\240\175\153\110\011\023\377\242\114\146\212
\354\160\122\011\123\214\060\314\270\325\272\044\334\060\231\076
\241\136\267\337\201\254\354\067\276\116\233\047\130\336\176\241
\233\124\177\006\266\057\344\062\120\375\347\020\273\250\315\332
\030\033\324\143\146\075\352\121\161\071\364\234\076\337\132\364
\332\307\114\046\355\213\265\041\272\064\171\002\163\141\020\332
\230\061\250\140\313\176\007\247\320\267\005\103\211\133\315\205
\046\331\260\121\257\367\214\122\252\022\247\130\337\222\233\147
\362\235\362\346\364\151\061\364\026\347\336\167\133\036\335\232
\005\001\255
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Trust for "AC RAIZ DNIE"
# Issuer: CN=AC RAIZ DNIE,OU=DNIE,O=DIRECCION GENERAL DE LA POLICIA,C=ES
# Serial Number:d2:85:70:fd:ae:a7:d6:5f:11:84:15:c6:31:b5:cb
# Subject: CN=AC RAIZ DNIE,OU=DNIE,O=DIRECCION GENERAL DE LA POLICIA,C=ES
# Not Valid Before: Thu Feb 16 10:37:25 2006
# Not Valid After: Fri Feb 08 22:59:59 2036
# Fingerprint (MD5): 15:5e:f5:11:7a:a2:c1:15:0e:92:7e:66:fe:3b:84:c3
# Fingerprint (SHA1): b3:8f:ec:ec:0b:14:8a:a6:86:c3:d0:0f:01:ec:c8:84:8e:80:85:eb
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN
 CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AC RAIZ DNIE"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\263\217\354\354\013\024\212\246\206\303\320\017\001\354\310\204
\216\200\205\353
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\025\136\365\021\172\242\301\025\016\222\176\146\376\073\204\303
END
CKA_ISSUER MULTILINE_OCTAL
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\050\060\046\006\003\125\004\012\014\037\104\111\122\105\103\103
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\111\117\116\040\107\105\116\105\122\101\114\040\104\105\040\114
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\004\013\014\004\104\116\111\105\061\025\060\023\006\003\125\004
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CKA_SERIAL_NUMBER MULTILINE_OCTAL
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CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING
 CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "EC-ACC"
Issuer: CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,OU=Vegeu https://www.catcert.net/verarrel (c)03,OU=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF Q-0801176-I),C=ES
Serial Number: -237015792479557091396265551265248204 79 (0x-11d4c2142bde21eb579d53fb0c223bff)
Subject: CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,OU=Vegeu https://www.catcert.net/verarrel (c)03,OU=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF Q-0801176-I),C=ES
Not Valid Before: Tue Jan 07 23:00:00 2003
Not Valid After: Tue Jan 07 22:59:59 2031
Fingerprint (MD5): eb:f5:9d:29:0d:61:f9:42:1f:7c:c2:ba:6d:e3:15:09
Fingerprint (SHA1): 28:90:3a:63:5b:52:80:fa:e6:77:4c:0b:6d:a7:d6:ba:a6:4a:f2:e8
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE
 CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "EC-ACC"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
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\061\073\060\071\006\003\125\004\012\023\062\101\147\145\156\143
\151\141\040\103\141\164\141\154\141\156\141\040\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\040\050\116\111\106
\040\121\055\060\070\060\061\061\067\066\055\111\051\061\050\060
\046\006\003\125\004\013\023\037\123\145\162\166\145\151\163\040
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\023\054\126\145\147\145\165\040\150\164\164\160\163\072\057\057
\167\167\167\056\143\141\164\143\145\162\164\056\156\145\164\057
\166\145\162\141\162\162\145\154\040\050\143\051\060\063\061\065
\060\063\006\003\125\004\013\023\054\112\145\162\141\162\161\165
\151\141\040\105\156\164\151\164\141\164\163\040\144\145\040\103

\145\162\164\151\146\151\143\141\143\151\157\040\103\141\164\141
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\023\054\126\145\147\145\165\040\150\164\164\160\163\072\057\057
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\166\145\162\141\162\162\145\154\040\050\143\051\060\063\061\065
\060\063\006\003\125\004\013\023\054\112\145\162\141\162\161\165
\151\141\040\105\156\164\151\164\141\164\163\040\144\145\040\103
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END
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\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\201
\363\061\013\060\011\006\003\125\004\006\023\002\105\123\061\073
\060\071\006\003\125\004\012\023\062\101\147\145\156\143\151\141
\040\103\141\164\141\154\141\156\141\040\144\145\040\103\145\162
\164\151\146\151\143\141\143\151\157\040\050\116\111\106\040\121
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\142\154\151\143\163\040\144\145\040\103\145\162\164\151\146\151
\143\141\143\151\157\061\065\060\063\006\003\125\004\013\023\054
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\162\141\162\162\145\154\040\050\143\051\060\063\061\065\060\063
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\040\105\156\164\151\164\141\164\163\040\144\145\040\103\145\162
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\145\151\163\040\120\165\142\154\151\143\163\040\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\061\065\060\063\006
\003\125\004\013\023\054\126\145\147\145\165\040\150\164\164\160
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\156\145\164\057\166\145\162\141\162\162\145\154\040\050\143\051
\060\063\061\065\060\063\006\003\125\004\013\023\054\112\145\162
\141\162\161\165\151\141\040\105\156\164\151\164\141\164\163\040
\144\145\040\103\145\162\164\151\146\151\143\141\143\151\157\040
\103\141\164\141\154\141\156\145\163\061\017\060\015\006\003\125
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\034\307\371\064\265\224\205\325\231\136\240\110\240\176\347\027
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\005\060\003\001\001\377\060\016\006\003\125\035\017\001\001\377
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\060\164\006\013\053\006\001\004\001\365\170\001\003\001\012\060
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\115\110\270\071\125\065\234\200\172\123\231\325\132\377\261\161
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END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER
 CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "EC-ACC"
Issuer: CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,OU=Vegeu https://www.catcert.net/verarrel (c)03,OU=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF Q-0801176-I),C=ES
Serial Number: -237015792479557091396265551265248204 79 (0x-11d4c2142bde21eb579d53fb0c223bff)
Subject: CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,OU=Vegeu https://www.catcert.net/verarrel (c)03,OU=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF Q-0801176-I),C=ES
Not Valid Before: Tue Jan 07 23:00:00 2003
Not Valid After: Tue Jan 07 22:59:59 2031
Fingerprint (MD5): eb:f5:9d:29:0d:61:f9:42:1f:7c:c2:ba:6d:e3:15:09
Fingerprint (SHA1): 28:90:3a:63:5b:52:80:fa:e6:77:4c:0b:6d:a7:d6:ba:a6:4a:f2:e8
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL
 UTF8 "EC-ACC"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\050\220\072\143\133\122\200\372\346\167\114\013\155\247\326\272
\246\112\362\350

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END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
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END
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\151\141\040\103\141\164\141\154\141\156\141\040\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\040\050\116\111\106
\040\121\055\060\070\060\061\061\067\066\055\111\051\061\050\060
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\146\151\143\141\143\151\157\061\065\060\063\006\003\125\004\013
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END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
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\304\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "A-Trust-nQual-03"
# Issuer: CN=A-Trust-nQual-03,OU=A-Trust-nQual-03,O=A-Trust Ges. f. Sicherheitssysteme im elektr.
Datenverkehr GmbH,C=AT
# Serial Number:14:b4:f9
# Subject: CN=A-Trust-nQual-03,OU=A-Trust-nQual-03,O=A-Trust Ges. f. Sicherheitssysteme im elektr.
Datenverkehr GmbH,C=AT
# Not Valid Before: Wed Jul 23 10:38:29 2014
#
 Not Valid After: Wed Jul 23 08:38:29 2025
# Fingerprint (MD5): a6:b2:ec:05:6b:b4:86:f0:e4:05:05:b0:d3:26:fc:fa
# Fingerprint (SHA1): 4c:ae:e3:89:31:d1:9a:e7:3b:31:aa:75:ca:33:d6:21:29:0f:a7:5e
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
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CKA_LABEL UTF8 "A-Trust-nQual-03"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
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END
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
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\162\150\145\151\164\163\163\171\163\164\145\155\145\040\151\155
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CKA_SERIAL_NUMBER MULTILINE_OCTAL
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END
CKA_VALUE MULTILINE_OCTAL
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\020\101\055\124\162\165\163\164\055\156\121\165\141\154\055\060
\063\060\036\027\015\061\064\060\067\062\063\061\060\063\070\062
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\145\162\153\145\150\162\040\107\155\142\110\061\031\060\027\006
\003\125\004\013\014\020\101\055\124\162\165\163\164\055\156\121
\165\141\154\055\060\063\061\031\060\027\006\003\125\004\003\014
\020\101\055\124\162\165\163\164\055\156\121\165\141\154\055\060
\063\060\202\001\042\060\015\006\011\052\206\110\206\367\015\001
\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202\001
\001\000\255\075\141\156\003\363\220\073\300\101\013\204\200\315
\354\052\243\235\153\273\156\302\102\204\367\121\024\341\240\250
\055\121\243\121\362\336\043\360\064\104\377\224\353\314\005\043
\225\100\271\007\170\245\045\366\012\275\105\206\350\331\275\300
\004\216\205\104\141\357\177\247\311\372\301\045\314\205\054\143
\077\005\140\163\111\005\340\140\170\225\020\113\334\371\021\131
\316\161\177\100\233\212\252\044\337\013\102\342\333\126\274\112
\322\245\014\233\267\103\076\335\203\323\046\020\002\317\352\043
\304\111\116\345\323\351\264\210\253\014\256\142\222\324\145\207
\331\152\327\364\205\237\344\063\042\045\245\345\310\063\272\303
\307\101\334\137\306\152\314\000\016\155\062\250\266\207\066\000
\142\167\233\036\037\064\313\220\074\170\210\164\005\353\171\365
\223\161\145\312\235\307\153\030\055\075\134\116\347\325\370\077
\061\175\217\207\354\012\042\057\043\351\376\273\175\311\340\364
\354\353\174\304\260\303\055\142\265\232\161\326\261\152\350\354
\331\355\325\162\354\276\127\001\316\005\125\237\336\321\140\210
\020\263\002\003\001\000\001\243\066\060\064\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\021\006\003
\125\035\016\004\012\004\010\104\152\225\147\125\171\021\117\060
\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\003\202
\001\001\000\022\214\244\075\340\000\377\250\212\233\246\047\177
\033\022\034\127\276\016\330\232\237\154\200\037\302\366\116\243
\035\160\167\222\007\376\313\327\036\367\272\340\336\142\113\265
\205\262\220\001\171\337\136\173\137\361\037\225\202\064\001\117
\014\064\150\066\371\327\256\047\172\326\034\025\262\264\203\313
\225\131\120\252\072\137\060\177\162\133\001\114\107\113\326\353
\160\122\244\263\340\211\050\372\372\251\016\207\372\306\365\243
\335\166\355\317\110\101\046\130\077\164\277\200\300\032\033\015
\034\111\071\154\236\213\004\320\376\124\257\233\307\261\252\146
\025\135\325\371\123\243\140\333\066\030\264\256\341\164\002\142
\364\210\246\307\303\046\237\025\260\237\301\061\204\275\032\241
\257\103\377\152\031\255\037\300\106\304\061\247\133\346\147\011
\267\017\304\052\016\040\046\330\114\203\023\237\073\227\225\270
\044\067\074\001\026\071\356\145\254\352\323\166\364\310\226\032
\141\122\351\354\346\032\010\166\134\213\270\332\236\300\255\354
\024\236\215\343\253\024\354\270\311\056\244\212\140\100\174\272
\312\010\213
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

```
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Trust for "A-Trust-nQual-03"
# Issuer: CN=A-Trust-nQual-03,OU=A-Trust-nQual-03,O=A-Trust
 Ges. f. Sicherheitssysteme im elektr. Datenverkehr GmbH,C=AT
# Serial Number:14:b4:f9
# Subject: CN=A-Trust-nQual-03,OU=A-Trust-nQual-03,O=A-Trust Ges. f. Sicherheitssysteme im elektr.
Datenverkehr GmbH,C=AT
# Not Valid Before: Wed Jul 23 10:38:29 2014
# Not Valid After: Wed Jul 23 08:38:29 2025
# Fingerprint (MD5): a6:b2:ec:05:6b:b4:86:f0:e4:05:05:b0:d3:26:fc:fa
# Fingerprint (SHA1): 4c:ae:e3:89:31:d1:9a:e7:3b:31:aa:75:ca:33:d6:21:29:0f:a7:5e
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "A-Trust-nQual-03"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\114\256\343\211\061\321\232\347\073\061\252\165\312\063\326\041
\051\017\247\136
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\246\262\354\005\153\264\206\360\344\005\005\260\323\046\374\372
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\215\061\013\060\011\006\003\125\004\006\023\002\101\124
\061\110\060\106\006\003\125\004\012\014\077\101\055\124\162\165
\163\164\040\107\145\163\056\040\146\056\040\123\151\143\150\145
\162\150\145\151\164\163\163\171\163\164\145\155\145\040\151\155
\040\145\154\145\153\164\162\056\040\104\141\164\145\156\166\145
\162\153\145\150\162\040\107\155\142\110\061\031\060\027\006\003
\125\004\013\014\020\101\055\124\162\165\163\164\055\156\121\165
\141\154\055\060\063\061\031\060\027\006\003\125\004\003\014\020
\101\055\124\162\165\163\164\055\156\121\165\141\154\055\060\063
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\003\024\264\371
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "KISA RootCA 1"
# Issuer: CN=KISA RootCA 1,OU=Korea Certification Authority Central,O=KISA,C=KR
```

```
# Serial Number: 4 (0x4)
# Subject: CN=KISA RootCA 1,OU=Korea Certification Authority Central,O=KISA,C=KR
# Not
 Valid Before: Wed Aug 24 08:05:46 2005
# Not Valid After: Sun Aug 24 08:05:46 2025
# Fingerprint (MD5): 68:9b:17:c6:54:e0:e0:e0:99:55:16:42:f7:5a:86:d8
# Fingerprint (SHA1): 02:72:68:29:3e:5f:5d:17:aa:a4:b3:c3:e6:36:1e:1f:92:57:5e:aa
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "KISA RootCA 1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\144\061\013\060\011\006\003\125\004\006\023\002\113\122\061
\015\060\013\006\003\125\004\012\014\004\113\111\123\101\061\056
\060\054\006\003\125\004\013\014\045\113\157\162\145\141\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164
\150\157\162\151\164\171\040\103\145\156\164\162\141\154\061\026
\060\024\006\003\125\004\003\014\015\113\111\123\101\040\122\157
\157\164\103\101\040\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\144\061\013\060\011\006\003\125\004\006\023\002\113\122\061
\015\060\013\006\003\125\004\012\014\004\113\111\123\101\061\056
\060\054\006\003\125\004\013\014\045\113\157\162\145\141\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164
\150\157\162\151\164\171\040\103\145\156\164\162\141\154\061\026
\060\024\006\003\125\004\003\014\015\113\111\123\101\040\122\157
\157\164\103\101\040\061
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\001\004
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\163\060\202\002\133\240\003\002\001\002\002\001\004
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\144\061\013\060\011\006\003\125\004\006\023\002\113\122\061\015
\060\013\006\003\125\004\012\014\004\113\111\123\101\061\056\060
\054\006\003\125\004\013\014\045\113\157\162\145\141\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171\040\103\145\156\164\162\141\154\061\026\060
\024\006\003\125\004\003\014\015\113\111\123\101\040\122\157\157
\164\103\101\040\061\060\036\027\015\060\065\060\070\062\064\060
\070\060\065\064\066\132\027\015\062\065\060\070\062\064\060\070
\060\065\064\066\132\060\144\061\013\060\011\006\003\125\004\006
```

\023\002\113\122\061\015\060\013\006\003\125\004\012\014\004\113
\111\123\101\061\056\060\054\006\003\125\004\013\014\045\113\157
\162\145\141\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\040\103\145\156\164
\162\141\154\061\026\060\024\006\003\125\004\003\014\015\113\111
\123\101\040\122\157\157\164\103\101\040\061\060\202\001\040\060
\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202
\001\015\000\060\202\001\010\002\202\001\001\000\274\004\344\372
\023\071\360\064\226\040\153\154\150\273\372\333\167\377\047\367
\254\354\057\347\375\360\177\155\157\214\052\315\045\011\133\044
\364\241\150\374\050\354\311\045\342\254\355\336\310\063\204\365
\260\245\011\072\247\261\107\110\305\314\117\214\171\234\371\006
\127\175\335\356\070\366\317\024\262\234\352\323\300\135\167\142
\360\107\015\271\032\100\123\134\144\160\257\010\132\300\367\317
\165\371\154\215\144\050\036\040\376\267\033\031\323\132\146\203
\162\342\260\233\275\323\045\025\015\062\157\144\067\224\205\106
\310\162\276\167\325\156\037\050\057\307\151\355\347\203\211\063
\130\323\336\240\277\100\350\103\120\356\334\115\153\274\245\352
\246\310\141\216\365\303\144\257\006\025\334\051\213\077\165\214
\274\161\104\333\374\255\265\027\035\155\211\203\317\306\063\275
\277\105\242\376\012\237\243\021\137\017\271\037\234\032\302\106
\314\234\050\146\237\160\046\074\056\337\252\200\376\214\305\004
\011\045\117\315\223\107\074\067\352\002\147\222\376\374\042\044
\134\254\322\054\340\134\001\063\212\301\031\333\002\001\003\243
\062\060\060\060\035\006\003\125\035\016\004\026\004\024\277\266
\047\330\003\132\166\145\114\141\001\101\126\061\345\213\173\072
\331\314\060\017\006\003\125\035\023\001\001\377\004\005\060\003
\001\001\377\060\015\006\011\052\206\110\206\367\015\001\001\005
\005\000\003\202\001\001\000\023\257\121\013\336\212\152\133\346
\232\012\310\261\220\112\116\241\002\235\314\210\322\253\146\275
\075\354\273\261\102\225\152\262\134\132\377\241\143\144\226\251
\150\025\177\045\136\212\370\244\163\301\200\212\205\012\016\122
\350\062\347\105\370\116\145\200\221\231\164\103\345\105\235\111
\052\360\224\225\335\351\341\060\322\023\156\311\116\261\167\345
\004\317\255\132\036\224\011\132\327\074\010\034\256\172\351\024
\062\301\105\255\322\046\110\162\254\250\101\332\360\041\207\071
\136\337\374\144\377\141\164\052\234\331\233\213\137\302\067\223
\330\243\067\057\073\223\153\262\033\007\247\177\011\120\357\323
\072\276\041\153\212\220\073\047\112\121\116\153\236\234\207\235
\370\170\220\061\355\021\047\306\250\131\276\374\030\013\373\216
\176\056\102\341\355\347\011\041\275\271\023\305\126\147\364\046
\246\102\103\220\104\124\264\161\233\166\344\032\022\254\032\050
\000\337\233\301\325\370\333\134\243\370\222\261\275\264\324\371
\120\331\000\002\117\333\203\320\021\117\244\102\126\141\072\176
\023\062\323\204\037\311\272
END
CKA_NSS_MOZILLA_CA_POLICY

```
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Trust for "KISA RootCA 1"
# Issuer: CN=KISA RootCA 1,OU=Korea Certification Authority Central,O=KISA,C=KR
# Serial Number: 4 (0x4)
# Subject: CN=KISA RootCA 1,OU=Korea Certification Authority Central,O=KISA,C=KR
# Not Valid Before: Wed Aug 24 08:05:46 2005
# Not Valid After: Sun Aug 24 08:05:46 2025
# Fingerprint (MD5): 68:9b:17:c6:54:e0:e0:e0:99:55:16:42:f7:5a:86:d8
# Fingerprint (SHA1): 02:72:68:29:3e:5f:5d:17:aa:a4:b3:c3:e6:36:1e:1f:92:57:5e:aa
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "KISA RootCA 1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\002\162\150\051\076\137\135\027\252\244\263\303\346\066\036\037
\222\127\136\252
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\150\233\027\306\124\340\340\340\231\125\026\102\367\132\206\330
END
CKA_ISSUER
 MULTILINE_OCTAL
\060\144\061\013\060\011\006\003\125\004\006\023\002\113\122\061
\015\060\013\006\003\125\004\012\014\004\113\111\123\101\061\056
\060\054\006\003\125\004\013\014\045\113\157\162\145\141\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164
\150\157\162\151\164\171\040\103\145\156\164\162\141\154\061\026
\060\024\006\003\125\004\003\014\015\113\111\123\101\040\122\157
\157\164\103\101\040\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\004
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "NetLock Minositett Kozjegyzoi (Class QA) Tanusitvanykiado"
# Issuer: 1.2.840.113549.1.9.1=info@netlock.hu,CN=NetLock Minositett Kozjegyzoi (Class QA)
Tanusitvanykiado,OU=Tanusitvanykiadok,O=NetLock
```

```
 Halozatbiztonsagi Kft.,L=Budapest,C=HU
# Serial Number: 123 (0x7b)
# Subject: 1.2.840.113549.1.9.1=info@netlock.hu,CN=NetLock Minositett Kozjegyzoi (Class QA)
Tanusitvanykiado,OU=Tanusitvanykiadok,O=NetLock Halozatbiztonsagi Kft.,L=Budapest,C=HU
# Not Valid Before: Sun Mar 30 01:47:11 2003
# Not Valid After: Thu Dec 15 01:47:11 2022
# Fingerprint (MD5): d4:80:65:68:24:f9:89:22:28:db:f5:a4:9a:17:8f:14
# Fingerprint (SHA1): 01:68:97:e1:a0:b8:f2:c3:b1:34:66:5c:20:a7:27:b7:a1:58:e2:8f
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "NetLock Minositett Kozjegyzoi (Class QA) Tanusitvanykiado"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\311\061\013\060\011\006\003\125\004\006\023\002\110\125
\061\021\060\017\006\003\125\004\007\023\010\102\165\144\141\160
\145\163\164\061\047\060\045\006\003\125\004\012\023\036\116\145
\164\114\157\143\153\040\110\141\154\157\172\141\164\142\151\172
\164\157\156\163\141\147\151\040\113\146\164\056\061\032\060\030
\006\003\125\004\013\023\021\124\141\156\165\163\151\164\166\141
\156\171\153\151\141\144\157\153\061\102\060\100\006\003\125\004
\003\023\071\116\145\164\114\157\143\153\040\115\151\156\157\163
\151\164\145\164\164\040\113\157\172\152\145\147\171\172\157\151
\040\050\103\154\141\163\163\040\121\101\051\040\124\141\156\165
\163\151\164\166\141\156\171\153\151\141\144\157\061\036\060\034
\006\011\052\206\110\206\367\015\001\011\001\026\017\151\156\146
\157\100\156\145\164\154\157\143\153\056\150\165
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\311\061\013\060\011\006\003\125\004\006\023\002\110\125
\061\021\060\017\006\003\125\004\007\023\010\102\165\144\141\160
\145\163\164\061\047\060\045\006\003\125\004\012\023\036\116\145
\164\114\157\143\153\040\110\141\154\157\172\141\164\142\151\172
\164\157\156\163\141\147\151\040\113\146\164\056\061\032\060\030
\006\003\125\004\013\023\021\124\141\156\165\163\151\164\166\141
\156\171\153\151\141\144\157\153\061\102\060\100\006\003\125\004
\003\023\071\116\145\164\114\157\143\153\040\115\151\156\157\163
\151\164\145\164\164\040\113\157\172\152\145\147\171\172\157\151
\040\050\103\154\141\163\163\040\121\101\051\040\124\141\156\165
\163\151\164\166\141\156\171\153\151\141\144\157\061\036\060\034
\006\011\052\206\110\206\367\015\001\011\001\026\017\151\156\146
\157\100\156\145\164\154\157\143\153\056\150\165
END
CKA_SERIAL_NUMBER
```

MULTILINE_OCTAL
\002\001\173
END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\321\060\202\005\271\240\003\002\001\002\002\001\173
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\201\311\061\013\060\011\006\003\125\004\006\023\002\110\125\061
\021\060\017\006\003\125\004\007\023\010\102\165\144\141\160\145
\163\164\061\047\060\045\006\003\125\004\012\023\036\116\145\164
\114\157\143\153\040\110\141\154\157\172\141\164\142\151\172\164
\157\156\163\141\147\151\040\113\146\164\056\061\032\060\030\006
\003\125\004\013\023\021\124\141\156\165\163\151\164\166\141\156
\171\153\151\141\144\157\153\061\102\060\100\006\003\125\004\003
\023\071\116\145\164\114\157\143\153\040\115\151\156\157\163\151
\164\145\164\164\040\113\157\172\152\145\147\171\172\157\151\040
\050\103\154\141\163\163\040\121\101\051\040\124\141\156\165\163
\151\164\166\141\156\171\153\151\141\144\157\061\036\060\034\006
\011\052\206\110\206\367\015\001\011\001\026\017\151\156\146\157
\100\156\145\164\154\157\143\153\056\150\165\060\036\027\015\060
\063\060\063\063\060\060\061\064\067\061\061\132\027\015\062\062
\061\062\061\065\060\061\064\067\061\061\132\060\201\311\061\013
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\156\144\040\164\150\145\040\165\163\145\040\157\146\040\164\150
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\145\040\141\164\040\150\164\164\160\163\072\057\057\167\167\167
\056\156\145\164\154\157\143\153\056\150\165\057\144\157\143\163
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\145\164\060\035\006\003\125\035\016\004\026\004\024\011\152\142
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\343\073\374\246\303\356\103\340\317\363\342\200\065\111\105\166
\002\342\343\057\005\305\361\052\347\300\101\063\306\266\233\320
\063\071\315\300\333\241\255\154\067\002\114\130\101\073\362\227
\222\306\110\250\315\345\212\071\211\141\371\122\227\351\275\366
\371\224\164\350\161\016\274\167\206\303\006\314\132\174\112\176
\064\120\060\056\373\177\062\232\215\075\363\040\133\370\152\312
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\307\001\201\304\334\107\117\046\352\037\355\333\315\015\230\364
\243\234\264\163\062\112\226\231\376\274\177\310\045\130\370\130
\363\166\146\211\124\244\246\076\304\120\134\272\211\030\202\165
\110\041\322\117\023\350\140\176\007\166\333\020\265\121\346\252
\271\150\252\315\366\235\220\165\022\352\070\032\312\104\350\267
\231\247\052\150\225\146\225\253\255\357\211\313\140\251\006\022
\306\224\107\351\050
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "NetLock Minositett Kozjegyzoi (Class QA) Tanusitvanykiado"
Issuer: 1.2.840.113549.1.9.1=info@netlock.hu,CN=NetLock
Minositett Kozjegyzoi (Class QA) Tanusitvanykiado,OU=Tanusitvanykiadok,O=NetLock Halozatbiztonsagi
Kft.,L=Budapest,C=HU
Serial Number: 123 (0x7b)
Subject: 1.2.840.113549.1.9.1=info@netlock.hu,CN=NetLock Minositett Kozjegyzoi (Class QA)
Tanusitvanykiado,OU=Tanusitvanykiadok,O=NetLock Halozatbiztonsagi Kft.,L=Budapest,C=HU
Not Valid Before: Sun Mar 30 01:47:11 2003
Not Valid After: Thu Dec 15 01:47:11 2022
Fingerprint (MD5): d4:80:65:68:24:f9:89:22:28:db:f5:a4:9a:17:8f:14
Fingerprint (SHA1): 01:68:97:e1:a0:b8:f2:c3:b1:34:66:5c:20:a7:27:b7:a1:58:e2:8f
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "NetLock Minositett Kozjegyzoi (Class QA) Tanusitvanykiado"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\001\150\227\341\240\270\362\303\261\064\146\134\040\247\047\267
\241\130\342\217
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\324\200\145\150\044\371\211\042\050\333\365\244\232\027\217\024
END

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CKA_ISSUER
 MULTILINE_OCTAL
\060\201\311\061\013\060\011\006\003\125\004\006\023\002\110\125
\061\021\060\017\006\003\125\004\007\023\010\102\165\144\141\160
\145\163\164\061\047\060\045\006\003\125\004\012\023\036\116\145
\164\114\157\143\153\040\110\141\154\157\172\141\164\142\151\172
\164\157\156\163\141\147\151\040\113\146\164\056\061\032\060\030
\006\003\125\004\013\023\021\124\141\156\165\163\151\164\166\141
\156\171\153\151\141\144\157\153\061\102\060\100\006\003\125\004
\003\023\071\116\145\164\114\157\143\153\040\115\151\156\157\163
\151\164\145\164\164\040\113\157\172\152\145\147\171\172\157\151
\040\050\103\154\141\163\163\040\121\101\051\040\124\141\156\165
\163\151\164\166\141\156\171\153\151\141\144\157\061\036\060\034
\006\011\052\206\110\206\367\015\001\011\001\026\017\151\156\146
\157\100\156\145\164\154\157\143\153\056\150\165
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\173
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION
 CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Staat der Nederlanden Root CA"
# Issuer: CN=Staat der Nederlanden Root CA,O=Staat der Nederlanden,C=NL
# Serial Number:98:96:8a
# Subject: CN=Staat der Nederlanden Root CA,O=Staat der Nederlanden,C=NL
# Not Valid Before: Tue Dec 17 09:23:49 2002
# Not Valid After: Wed Dec 16 09:15:38 2015
# Fingerprint (MD5): 60:84:7c:5a:ce:db:0c:d4:cb:a7:e9:fe:02:c6:a9:c0
# Fingerprint (SHA1): 10:1d:fa:3f:d5:0b:cb:bb:9b:b5:60:0c:19:55:a4:1a:f4:73:3a:04
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Staat der Nederlanden Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\125\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\036\060\034\006\003\125\004\012\023\025\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061
\046\060\044\006\003\125\004\003\023\035\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040
\122\157\157\164\040\103\101
END
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CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\125\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\036\060\034\006\003\125\004\012\023\025\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061
\046\060\044\006\003\125\004\003\023\035\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040
\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\000\230\226\212
END
CKA_VALUE MULTILINE_OCTAL
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\230\226\212\060\015\006\011\052\206\110\206\367\015\001\001\005
\005\000\060\125\061\013\060\011\006\003\125\004\006\023\002\116
\114\061\036\060\034\006\003\125\004\012\023\025\123\164\141\141
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\164\040\144\145\162\040\116\145\144\145\162\154\141\156\144\145
\156\040\122\157\157\164\040\103\101\060\036\027\015\060\062\061
\062\061\067\060\071\062\063\064\071\132\027\015\061\065\061\062
\061\066\060\071\061\065\063\070\132\060\125\061\013\060\011\006
\003\125\004\006\023\002\116\114\061\036\060\034\006\003\125\004
\012\023\025\123\164\141\141\164\040\144\145\162\040\116\145\144
\145\162\154\141\156\144\145\156\061\046\060\044\006\003\125\004
\003\023\035\123\164\141\141\164\040\144\145\162\040\116\145\144
\145\162\154\141\156\144\145\156\040\122\157\157\164\040\103\101
\060\202\001\042\060\015\006\011\052\206\110\206\367\015\001\001
\001\005\000\003\202\001\017\000\060\202\001\012\002\202\001\001
\000\230\322\265\121\021\172\201\246\024\230\161\155\276\314\347
\023\033\326\047\016\172\263\152\030\034\266\141\132\325\141\011
\277\336\220\023\307\147\356\335\363\332\305\014\022\236\065\125
\076\054\047\210\100\153\367\334\335\042\141\365\302\307\016\365
\366\325\166\123\115\217\214\274\030\166\067\205\235\350\312\111
\307\322\117\230\023\011\242\076\042\210\234\177\326\362\020\145
\264\356\137\030\325\027\343\370\305\375\342\235\242\357\123\016
\205\167\242\017\341\060\107\356\000\347\063\175\104\147\032\013
\121\350\213\240\236\120\230\150\064\122\037\056\155\001\362\140
\105\362\061\353\251\061\150\051\273\172\101\236\306\031\177\224
\264\121\071\003\177\262\336\247\062\233\264\107\216\157\264\112
\256\345\257\261\334\260\033\141\274\231\162\336\344\211\267\172
\046\135\332\063\111\133\122\234\016\365\212\255\303\270\075\350
\006\152\302\325\052\013\154\173\204\275\126\005\313\206\145\222
\354\104\053\260\216\271\334\160\013\106\332\255\274\143\210\071
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\111\002\003\001\000\001\243\201\221\060\201\216\060\014\006\003

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\040\004\110\060\106\060\104\006\004\125\035\040\000\060\074\060
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\160\072\057\057\167\167\167\056\160\153\151\157\166\145\162\150
\145\151\144\056\156\154\057\160\157\154\151\143\151\145\163\057
\162\157\157\164\055\160\157\154\151\143\171\060\016\006\003\125
\035\017\001\001\377\004\004\003\002\001\006\060\035\006\003\125
\035\016\004\026\004\024\250\175\353\274\143\244\164\023\164\000
\354\226\340\323\064\301\054\277\154\370\060\015\006\011\052\206
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\207\125\164\066\141\301\273\321\324\306\025\250\023\264\237\244
\376\273\356\025\264\057\006\014\051\362\250\222\244\141\015\374
\253\134\010\133\121\023\053\115\302\052\141\310\370\011\130\374
\055\002\262\071\175\231\146\201\277\156\134\225\105\040\154\346
\171\247\321\330\034\051\374\302\040\047\121\310\361\174\135\064
\147\151\205\021\060\306\000\322\327\363\323\174\266\360\061\127
\050\022\202\163\351\063\057\246\125\264\013\221\224\107\234\372
\273\172\102\062\350\256\176\055\310\274\254\024\277\331\017\331
\133\374\301\371\172\225\341\175\176\226\374\161\260\302\114\310
\337\105\064\311\316\015\362\234\144\010\320\073\303\051\305\262
\355\220\004\301\261\051\221\305\060\157\301\251\162\063\314\376
\135\026\027\054\021\151\347\176\376\305\203\010\337\274\334\042
\072\056\040\151\043\071\126\140\147\220\213\056\166\071\373\021
\210\227\366\174\275\113\270\040\026\147\005\215\342\073\301\162
\077\224\225\067\307\135\271\236\330\223\241\027\217\377\014\146
\025\301\044\174\062\174\003\035\073\241\130\105\062\223
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Staat der Nederlanden Root CA"
Issuer: CN=Staat der Nederlanden Root CA,O=Staat der Nederlanden,C=NL
Serial Number:98:96:8a
Subject: CN=Staat der Nederlanden
Root CA,O=Staat der Nederlanden,C=NL
Not Valid Before: Tue Dec 17 09:23:49 2002
Not Valid After: Wed Dec 16 09:15:38 2015
Fingerprint (MD5): 60:84:7c:5a:ce:db:0c:d4:cb:a7:e9:fe:02:c6:a9:c0
Fingerprint (SHA1): 10:1d:fa:3f:d5:0b:cb:bb:9b:b5:60:0c:19:55:a4:1a:f4:73:3a:04
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Staat der Nederlanden Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL

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\020\035\372\077\325\013\313\273\233\265\140\014\031\125\244\032
\364\163\072\004
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\140\204\174\132\316\333\014\324\313\247\351\376\002\306\251\300
END
CKA_ISSUER MULTILINE_OCTAL
\060\125\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\036\060\034\006\003\125\004\012\023\025\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061
\046\060\044\006\003\125\004\003\023\035\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040
\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\004\000\230\226\212
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "America Online Root Certification Authority 1"
# Issuer: CN=America Online Root Certification Authority 1,O=America Online Inc.,C=US
# Serial Number: 1 (0x1)
# Subject: CN=America Online Root Certification Authority 1,O=America Online Inc.,C=US
# Not Valid Before: Tue May 28 06:00:00 2002
# Not Valid After: Thu Nov 19 20:43:00 2037
# Fingerprint (MD5): 14:f1:08:ad:9d:fa:64:e2:89:e7:1c:cf:a8:ad:7d:5e
# Fingerprint (SHA1): 39:21:c1:15:c1:5d:0e:ca:5c:cb:5b:c4:f0:7d:21:d8:05:0b:56:6a
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE
 CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "America Online Root Certification Authority 1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\143\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\034\060\032\006\003\125\004\012\023\023\101\155\145\162\151\143
\141\040\117\156\154\151\156\145\040\111\156\143\056\061\066\060
\064\006\003\125\004\003\023\055\101\155\145\162\151\143\141\040
\117\156\154\151\156\145\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171\040\061
END
```

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\143\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\034\060\032\006\003\125\004\012\023\023\101\155\145\162\151\143
\141\040\117\156\154\151\156\145\040\111\156\143\056\061\066\060
\064\006\003\125\004\003\023\055\101\155\145\162\151\143\141\040
\117\156\154\151\156\145\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171\040\061
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\244\060\202\002\214\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\143\061\013\060\011\006\003\125\004\006\023\002\125\123\061\034
\060\032\006\003\125\004\012\023\023\101\155\145\162\151\143\141
\040\117\156\154\151\156\145\040\111\156\143\056\061\066\060\064
\006\003\125\004\003\023\055\101\155\145\162\151\143\141\040\117
\156\154\151\156\145\040\122\157\157\164\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\061\060\036\027\015\060\062\060\065\062\070\060\066
\060\060\060\060\132\027\015\063\067\061\061\061\071\062\060\064
\063\060\060\132\060\143\061\013\060\011\006\003\125\004\006\023
\002\125\123\061\034\060\032\006\003\125\004\012\023\023\101\155
\145\162\151\143\141\040\117\156\154\151\156\145\040\111\156\143
\056\061\066\060\064\006\003\125\004\003\023\055\101\155\145\162
\151\143\141\040\117\156\154\151\156\145\040\122\157\157\164\040
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165
\164\150\157\162\151\164\171\040\061\060\202\001\042\060\015\006
\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017
\000\060\202\001\012\002\202\001\001\000\250\057\350\244\151\006
\003\107\303\351\052\230\377\031\242\160\232\306\120\262\176\245
\337\150\115\033\174\017\266\227\150\175\055\246\213\227\351\144
\206\311\243\357\240\206\277\140\145\234\113\124\210\302\110\305
\112\071\277\024\343\131\125\345\031\264\164\310\264\005\071\134
\026\245\342\225\005\340\022\256\131\213\242\063\150\130\034\246
\324\025\267\330\237\327\334\161\253\176\232\277\233\216\063\017
\042\375\037\056\347\007\066\357\142\071\305\335\313\272\045\024
\043\336\014\306\075\074\316\202\010\346\146\076\332\121\073\026
\072\243\005\177\240\334\207\325\234\374\162\251\240\175\170\344
\267\061\125\036\145\273\324\141\260\041\140\355\020\062\162\305
\222\045\036\370\220\112\030\170\107\337\176\060\067\076\120\033
\333\034\323\153\232\206\123\007\260\357\254\006\170\370\204\231
\376\041\215\114\200\266\014\202\366\146\160\171\032\323\117\243
\317\361\317\106\260\113\017\076\335\210\142\270\214\251\011\050

\073\172\307\227\341\036\345\364\237\300\300\256\044\240\310\241
\331\017\326\173\046\202\151\062\075\247\002\003\001\000\001\243
\143\060\141\060\017\006\003\125\035\023\001\001\377\004\005\060
\003\001\001\377\060\035\006\003\125\035\016\004\026\004\024\000
\255\331\243\366\171\366\156\164\251\177\063\075\201\027\327\114
\317\063\336\060\037\006\003\125\035\043\004\030\060\026\200\024
\000\255\331\243\366\171\366\156\164\251\177\063\075\201\027\327
\114\317\063\336\060\016\006\003\125\035\017\001\001\377\004\004
\003\002\001\206\060\015\006\011\052\206\110\206\367\015\001\001
\005\005\000\003\202\001\001\000\174\212\321\037\030\067\202\340
\270\260\243\355\126\225\310\142\141\234\005\242\315\302\142\046
\141\315\020\026\327\314\264\145\064\320\021\212\255\250\251\005
\146\357\164\363\155\137\235\231\257\366\213\373\353\122\262\005
\230\242\157\052\305\124\275\045\275\137\256\310\206\352\106\054
\301\263\275\301\351\111\160\030\026\227\010\023\214\040\340\033
\056\072\107\313\036\344\000\060\225\133\364\105\243\300\032\260
\001\116\253\275\300\043\156\143\077\200\112\305\007\355\334\342
\157\307\301\142\361\343\162\326\004\310\164\147\013\372\210\253
\241\001\310\157\360\024\257\322\231\315\121\223\176\355\056\070
\307\275\316\106\120\075\162\343\171\045\235\233\210\053\020\040
\335\245\270\062\237\215\340\051\337\041\164\206\202\333\057\202
\060\306\307\065\206\263\371\226\137\106\333\014\105\375\363\120
\303\157\306\303\110\255\106\246\341\047\107\012\035\016\233\266
\302\167\177\143\362\340\175\032\276\374\340\337\327\307\247\154
\260\371\256\272\074\375\164\264\021\350\130\015\200\274\323\250
\200\072\231\355\165\314\106\173
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER
CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "America Online Root Certification Authority 1"
Issuer: CN=America Online Root Certification Authority 1,O=America Online Inc.,C=US
Serial Number: 1 (0x1)
Subject: CN=America Online Root Certification Authority 1,O=America Online Inc.,C=US
Not Valid Before: Tue May 28 06:00:00 2002
Not Valid After: Thu Nov 19 20:43:00 2037
Fingerprint (MD5): 14:f1:08:ad:9d:fa:64:e2:89:e7:1c:cf:a8:ad:7d:5e
Fingerprint (SHA1): 39:21:c1:15:c1:5d:0e:ca:5c:cb:5b:c4:f0:7d:21:d8:05:0b:56:6a
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "America Online Root Certification Authority 1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL

\071\041\301\025\301\135\016\312\134\313\133\304\360\175\041\330
\005\013\126\152
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\024\361\010\255\235\372\144\342\211\347\034\317\250\255\175\136
END
CKA_ISSUER
MULTILINE_OCTAL
\060\143\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\034\060\032\006\003\125\004\012\023\023\101\155\145\162\151\143
\141\040\117\156\154\151\156\145\040\111\156\143\056\061\066\060
\064\006\003\125\004\003\023\055\101\155\145\162\151\143\141\040
\117\156\154\151\156\145\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171\040\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Juur-SK"
Issuer: CN=Juur-SK,O=AS Sertifitseerimiskeskus,C=EE,1.2.840.113549.1.9.1=pki@sk.ee
Serial Number:3b:8e:4b:fc
Subject: CN=Juur-SK,O=AS Sertifitseerimiskeskus,C=EE,1.2.840.113549.1.9.1=pki@sk.ee
#
Not Valid Before: Thu Aug 30 14:23:01 2001
Not Valid After: Fri Aug 26 14:23:01 2016
Fingerprint (MD5): aa:8e:5d:d9:f8:db:0a:58:b7:8d:26:87:6c:82:35:55
Fingerprint (SHA1): 40:9d:4b:d9:17:b5:5c:27:b6:9b:64:cb:98:22:44:0d:cd:09:b8:89
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Juur-SK"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\135\061\030\060\026\006\011\052\206\110\206\367\015\001\011
\001\026\011\160\153\151\100\163\153\056\145\145\061\013\060\011
\006\003\125\004\006\023\002\105\105\061\042\060\040\006\003\125
\004\012\023\031\101\123\040\123\145\162\164\151\146\151\164\163
\145\145\162\151\155\151\163\153\145\163\153\165\163\061\020\060
\016\006\003\125\004\003\023\007\112\165\165\162\055\123\113
END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\135\061\030\060\026\006\011\052\206\110\206\367\015\001\011
\001\026\011\160\153\151\100\163\153\056\145\145\061\013\060\011
\006\003\125\004\006\023\002\105\105\061\042\060\040\006\003\125
\004\012\023\031\101\123\040\123\145\162\164\151\146\151\164\163
\145\145\162\151\155\151\163\153\145\163\153\165\163\061\020\060
\016\006\003\125\004\003\023\007\112\165\165\162\055\123\113
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\004\073\216\113\374
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\346\060\202\003\316\240\003\002\001\002\002\004\073
\216\113\374\060\015\006\011\052\206\110\206\367\015\001\001\005
\005\000\060\135\061\030\060\026\006\011\052\206\110\206\367\015
\001\011\001\026\011\160\153\151\100\163\153\056\145\145\061\013
\060\011\006\003\125\004\006\023\002\105\105\061\042\060\040\006
\003\125\004\012\023\031\101\123\040\123\145\162\164\151\146\151
\164\163\145\145\162\151\155\151\163\153\145\163\153\165\163\061
\020\060\016\006\003\125\004\003\023\007\112\165\165\162\055\123
\113\060\036\027\015\060\061\060\070\063\060\061\064\062\063\060
\061\132\027\015\061\066\060\070\062\066\061\064\062\063\060\061
\132\060\135\061\030\060\026\006\011\052\206\110\206\367\015\001
\011\001\026\011\160\153\151\100\163\153\056\145\145\061\013\060
\011\006\003\125\004\006\023\002\105\105\061\042\060\040\006\003
\125\004\012\023\031\101\123\040\123\145\162\164\151\146\151\164
\163\145\145\162\151\155\151\163\153\145\163\153\165\163\061\020
\060\016\006\003\125\004\003\023\007\112\165\165\162\055\123\113
\060\202\001\042\060\015\006\011\052\206\110\206\367\015\001\001
\001\005\000\003\202\001\017\000\060\202\001\012\002\202\001\001
\000\201\161\066\076\063\007\326\343\060\215\023\176\167\062\106
\313\317\031\262\140\061\106\227\206\364\230\106\244\302\145\105
\317\323\100\174\343\132\042\250\020\170\063\314\210\261\323\201
\112\366\142\027\173\137\115\012\056\320\317\213\043\356\117\002
\116\273\353\016\312\275\030\143\350\200\034\215\341\034\215\075
\340\377\133\137\352\144\345\227\350\077\231\177\014\012\011\063
\000\032\123\247\041\341\070\113\326\203\033\255\257\144\302\371
\034\172\214\146\110\115\146\037\030\012\342\076\273\037\007\145
\223\205\271\032\260\271\304\373\015\021\366\365\326\371\033\307
\054\053\267\030\121\376\340\173\366\250\110\257\154\073\117\057
\357\370\321\107\036\046\127\360\121\035\063\226\377\357\131\075
\332\115\321\025\064\307\352\077\026\110\173\221\034\200\103\017
\075\270\005\076\321\263\225\315\330\312\017\302\103\147\333\267
\223\340\042\202\056\276\365\150\050\203\271\301\073\151\173\040
\332\116\234\155\341\272\315\217\172\154\260\011\042\327\213\013
\333\034\325\132\046\133\015\300\352\345\140\320\237\376\065\337

\077\002\003\001\000\001\243\202\001\254\060\202\001\250\060\017
\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060
\202\001\026\006\003\125\035\040\004\202\001\015\060\202\001\011
\060\202\001\005\006\012\053\006\001\004\001\316\037\001\001\001
\060\201\366\060\201\320\006\010\053\006\001\005\005\007\002\002
\060\201\303\036\201\300\000\123\000\145\000\145\000\040\000\163
\000\145\000\162\000\164\000\151\000\146\000\151\000\153\000\141
\000\141\000\164\000\040\000\157\000\156\000\040\000\166\000\344
\000\154\000\152\000\141\000\163\000\164\000\141\000\164\000\165
\000\144\000\040\000\101\000\123\000\055\000\151\000\163\000\040
\000\123\000\145\000\162\000\164\000\151\000\146\000\151\000\164
\000\163\000\145\000\145\000\162\000\151\000\155\000\151\000\163
\000\153\000\145\000\163\000\153\000\165\000\163\000\040\000\141
\000\154\000\141\000\155\000\055\000\123\000\113\000\040\000\163
\000\145\000\162\000\164\000\151\000\146\000\151\000\153\000\141
\000\141\000\164\000\151\000\144\000\145\000\040\000\153\000\151
\000\156\000\156\000\151\000\164\000\141\000\155\000\151\000\163
\000\145\000\153\000\163\060\041\006\010\053\006\001\005\005\007
\002\001\026\025\150\164\164\160\072\057\057\167\167\167\056\163
\153\056\145\145\057\143\160\163\057\060\053\006\003\125\035\037
\004\044\060\042\060\040\240\036\240\034\206\032\150\164\164\160
\072\057\057\167\167\167\056\163\153\056\145\145\057\152\165\165
\162\057\143\162\154\057\060\035\006\003\125\035\016\004\026\004
\024\004\252\172\107\243\344\211\257\032\317\012\100\247\030\077
\157\357\351\175\276\060\037\006\003\125\035\043\004\030\060\026
\200\024\004\252\172\107\243\344\211\257\032\317\012\100\247\030
\077\157\357\351\175\276\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\346\060\015\006\011\052\206\110\206\367\015
\001\001\005\005\000\003\202\001\001\000\173\301\030\224\123\242
\011\363\376\046\147\232\120\344\303\005\057\053\065\170\221\114
\174\250\021\021\171\114\111\131\254\310\367\205\145\134\106\273
\073\020\240\002\257\315\117\265\314\066\052\354\135\376\357\240
\221\311\266\223\157\174\200\124\354\307\010\160\015\216\373\202
\354\052\140\170\151\066\066\321\305\234\213\151\265\100\310\224
\145\167\362\127\041\146\073\316\205\100\266\063\143\032\277\171
\036\374\134\035\323\035\223\033\213\014\135\205\275\231\060\062
\030\011\221\122\351\174\241\272\377\144\222\232\354\376\065\356
\214\057\256\374\040\206\354\112\336\033\170\062\067\246\201\322
\235\257\132\022\026\312\231\133\374\157\155\016\305\240\036\206
\311\221\320\134\230\202\137\143\014\212\132\253\330\225\246\314
\313\212\326\277\144\113\216\312\212\262\260\351\041\062\236\252
\250\205\230\064\201\071\041\073\250\072\122\062\075\366\153\067
\206\006\132\025\230\334\360\021\146\376\064\040\267\003\364\101
\020\175\071\204\171\226\162\143\266\226\002\345\153\271\255\031
\115\273\306\104\333\066\313\052\234\216
END
CKA_NSS_MOZILLA_CA_POLICY

```
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Trust for "Juur-SK"
# Issuer: CN=Juur-SK,O=AS Sertifitseerimiskeskus,C=EE,1.2.840.113549.1.9.1=pki@sk.ee
# Serial Number:3b:8e:4b:fc
# Subject: CN=Juur-SK,O=AS Sertifitseerimiskeskus,C=EE,1.2.840.113549.1.9.1=pki@sk.ee
# Not Valid Before: Thu Aug 30 14:23:01 2001
# Not Valid After: Fri Aug 26 14:23:01 2016
#
 Fingerprint (MD5): aa:8e:5d:d9:f8:db:0a:58:b7:8d:26:87:6c:82:35:55
# Fingerprint (SHA1): 40:9d:4b:d9:17:b5:5c:27:b6:9b:64:cb:98:22:44:0d:cd:09:b8:89
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Juur-SK"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\100\235\113\331\027\265\134\047\266\233\144\313\230\042\104\015
\315\011\270\211
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\252\216\135\331\370\333\012\130\267\215\046\207\154\202\065\125
END
CKA_ISSUER MULTILINE_OCTAL
\060\135\061\030\060\026\006\011\052\206\110\206\367\015\001\011
\001\026\011\160\153\151\100\163\153\056\145\145\061\013\060\011
\006\003\125\004\006\023\002\105\105\061\042\060\040\006\003\125
\004\012\023\031\101\123\040\123\145\162\164\151\146\151\164\163
\145\145\162\151\155\151\163\153\145\163\153\165\163\061\020\060
\016\006\003\125\004\003\023\007\112\165\165\162\055\123\113
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\073\216\113\374
END
CKA_TRUST_SERVER_AUTH
 CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "SECOM Trust.net"
# Issuer: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP
# Serial Number: 0 (0x0)
# Subject: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP
```

```
# Not Valid Before: Tue Sep 30 04:20:49 2003
# Not Valid After: Sat Sep 30 04:20:49 2023
# Fingerprint (MD5): f1:bc:63:6a:54:e0:b5:27:f5:cd:e7:1a:e3:4d:6e:4a
# Fingerprint (SHA1): 36:b1:2b:49:f9:81:9e:d7:4c:9e:bc:38:0f:c6:56:8f:5d:ac:b2:f7
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SECOM Trust.net"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\120\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\030\060\026\006\003\125\004\012\023\017\123\105\103\117\115\040
\124\162\165\163\164\056\156\145\164\061\047\060\045\006\003\125
\004\013\023\036\123\145\143\165\162\151\164\171\040\103\157\155
\155\165\156\151\143\141\164\151\157\156\040\122\157\157\164\103
\101\061
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\120\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\030\060\026\006\003\125\004\012\023\017\123\105\103\117\115\040
\124\162\165\163\164\056\156\145\164\061\047\060\045\006\003\125
\004\013\023\036\123\145\143\165\162\151\164\171\040\103\157\155
\155\165\156\151\143\141\164\151\157\156\040\122\157\157\164\103
\101\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\132\060\202\002\102\240\003\002\001\002\002\001\000
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\120\061\013\060\011\006\003\125\004\006\023\002\112\120\061\030
\060\026\006\003\125\004\012\023\017\123\105\103\117\115\040\124
\162\165\163\164\056\156\145\164\061\047\060\045\006\003\125\004
\013\023\036\123\145\143\165\162\151\164\171\040\103\157\155\155
\165\156\151\143\141\164\151\157\156\040\122\157\157\164\103\101
\061\060\036\027\015\060\063\060\071\063\060\060\064\062\060\064
\071\132\027\015\062\063\060\071\063\060\060\064\062\060\064\071
\132\060\120\061\013\060\011\006\003\125\004\006\023\002\112\120
\061\030\060\026\006\003\125\004\012\023\017\123\105\103\117\115
\040\124\162\165\163\164\056\156\145\164\061\047\060\045\006\003
\125\004\013\023\036\123\145\143\165\162\151\164\171\040\103\157
\155\155\165\156\151\143\141\164\151\157\156\040\122\157\157\164
\103\101\061\060\202\001\042\060\015\006\011\052\206\110\206\367
\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002
```

\202\001\001\000\263\263\376\177\323\155\261\357\026\174\127\245
\014\155\166\212\057\113\277\144\373\114\356\212\360\363\051\174
\365\377\356\052\340\351\351\272\133\144\042\232\232\157\054\072
\046\151\121\005\231\046\334\325\034\152\161\306\232\175\036\235
\335\174\154\306\214\147\147\112\076\370\161\260\031\047\251\011
\014\246\225\277\113\214\014\372\125\230\073\330\350\042\241\113
\161\070\171\254\227\222\151\263\211\176\352\041\150\006\230\024
\226\207\322\141\066\274\155\047\126\236\127\356\300\300\126\375
\062\317\244\331\216\302\043\327\215\250\363\330\045\254\227\344
\160\070\364\266\072\264\235\073\227\046\103\243\241\274\111\131
\162\114\043\060\207\001\130\366\116\276\034\150\126\146\257\315
\101\135\310\263\115\052\125\106\253\037\332\036\342\100\075\333
\315\175\271\222\200\234\067\335\014\226\144\235\334\042\367\144
\213\337\141\336\025\224\122\025\240\175\122\311\113\250\041\311
\306\261\355\313\303\225\140\321\017\360\253\160\370\337\313\115
\176\354\326\372\253\331\275\177\124\362\245\351\171\372\331\326
\166\044\050\163\002\003\001\000\001\243\077\060\075\060\035\006
\003\125\035\016\004\026\004\024\240\163\111\231\150\334\205\133
\145\343\233\050\057\127\237\275\063\274\007\110\060\013\006\003
\125\035\017\004\004\003\002\001\006\060\017\006\003\125\035\023
\001\001\377\004\005\060\003\001\001\377\060\015\006\011\052\206
\110\206\367\015\001\001\005\005\000\003\202\001\001\000\150\100
\251\250\273\344\117\135\171\263\005\265\027\263\140\023\353\306
\222\135\340\321\323\152\376\373\276\233\155\277\307\005\155\131
\040\304\034\360\267\332\204\130\002\143\372\110\026\357\117\245
\013\367\112\230\362\077\236\033\255\107\153\143\316\010\107\353
\122\077\170\234\257\115\256\370\325\117\317\232\230\052\020\101
\071\122\304\335\331\233\016\357\223\001\256\262\056\312\150\102
\044\102\154\260\263\072\076\315\351\332\110\304\025\313\351\371
\007\017\222\120\111\212\335\061\227\137\311\351\067\252\073\131
\145\227\224\062\311\263\237\076\072\142\130\305\111\255\142\016
\161\245\062\252\057\306\211\166\103\100\023\023\147\075\242\124
\045\020\313\361\072\362\331\372\333\111\126\273\246\376\247\101
\065\303\340\210\141\311\210\307\337\066\020\042\230\131\352\260
\112\373\126\026\163\156\254\115\367\042\241\117\255\035\172\055
\105\047\345\060\301\136\362\332\023\313\045\102\121\225\107\003
\214\154\041\314\164\102\355\123\377\063\213\217\017\127\001\026
\057\317\246\356\311\160\042\024\275\375\276\154\013\003
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "SECOM Trust.net"
Issuer: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP
Serial Number: 0 (0x0)

```
# Subject: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP
# Not Valid Before: Tue Sep 30 04:20:49 2003
# Not Valid After: Sat Sep 30 04:20:49 2023
# Fingerprint (MD5): f1:bc:63:6a:54:e0:b5:27:f5:cd:e7:1a:e3:4d:6e:4a
# Fingerprint (SHA1): 36:b1:2b:49:f9:81:9e:d7:4c:9e:bc:38:0f:c6:56:8f:5d:ac:b2:f7
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL
 UTF8 "SECOM Trust.net"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\066\261\053\111\371\201\236\327\114\236\274\070\017\306\126\217
\135\254\262\367
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\361\274\143\152\124\340\265\047\365\315\347\032\343\115\156\112
END
CKA_ISSUER MULTILINE_OCTAL
\060\120\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\030\060\026\006\003\125\004\012\023\017\123\105\103\117\115\040
\124\162\165\163\164\056\156\145\164\061\047\060\045\006\003\125
\004\013\023\036\123\145\143\165\162\151\164\171\040\103\157\155
\155\165\156\151\143\141\164\151\157\156\040\122\157\157\164\103
\101\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "ComSign CA"
# Issuer: C=IL,O=ComSign,CN=ComSign
 CA
# Serial Number:14:13:96:83:14:55:8c:ea:7b:63:e5:fc:34:87:77:44
# Subject: C=IL,O=ComSign,CN=ComSign CA
# Not Valid Before: Wed Mar 24 11:32:18 2004
# Not Valid After: Mon Mar 19 15:02:18 2029
# Fingerprint (MD5): cd:f4:39:f3:b5:18:50:d7:3e:a4:c5:91:a0:3e:21:4b
# Fingerprint (SHA1): e1:a4:5b:14:1a:21:da:1a:79:f4:1a:42:a9:61:d6:69:cd:06:34:c1
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

CKA_LABEL UTF8 "ComSign CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\064\061\023\060\021\006\003\125\004\003\023\012\103\157\155
\123\151\147\156\040\103\101\061\020\060\016\006\003\125\004\012
\023\007\103\157\155\123\151\147\156\061\013\060\011\006\003\125
\004\006\023\002\111\114
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\064\061\023\060\021\006\003\125\004\003\023\012\103\157\155
\123\151\147\156\040\103\101\061\020\060\016\006\003\125\004\012
\023\007\103\157\155\123\151\147\156\061\013\060\011\006\003\125
\004\006\023\002\111\114
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\024\023\226\203\024\125\214\352\173\143\345\374\064\207
\167\104
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\223\060\202\002\173\240\003\002\001\002\002\020\024
\023\226\203\024\125\214\352\173\143\345\374\064\207\167\104\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\064
\061\023\060\021\006\003\125\004\003\023\012\103\157\155\123\151
\147\156\040\103\101\061\020\060\016\006\003\125\004\012\023\007
\103\157\155\123\151\147\156\061\013\060\011\006\003\125\004\006
\023\002\111\114\060\036\027\015\060\064\060\063\062\064\061\061
\063\062\061\070\132\027\015\062\071\060\063\061\071\061\065\060
\062\061\070\132\060\064\061\023\060\021\006\003\125\004\003\023
\012\103\157\155\123\151\147\156\040\103\101\061\020\060\016\006
\003\125\004\012\023\007\103\157\155\123\151\147\156\061\013\060
\011\006\003\125\004\006\023\002\111\114\060\202\001\042\060\015
\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001
\017\000\060\202\001\012\002\202\001\001\000\360\344\124\151\053
\323\307\217\152\104\344\176\130\047\370\013\320\344\224\022\212
\361\033\070\070\057\037\061\234\006\324\054\247\336\013\052\256
\032\240\343\236\152\277\237\074\307\156\242\371\213\144\154\072
\255\205\125\121\124\245\070\125\270\253\203\004\362\077\144\066
\367\300\215\103\103\152\146\321\367\027\052\325\357\066\372\060
\020\102\327\123\315\371\372\063\163\114\263\351\204\040\212\326
\101\047\065\344\070\372\224\233\270\172\344\171\037\063\373\033
\330\041\011\050\174\115\030\151\136\144\212\172\031\223\312\176
\354\363\162\347\067\007\130\131\050\254\102\371\305\377\315\077
\347\245\372\070\261\320\014\307\331\122\032\123\326\201\314\102
\172\065\133\355\113\072\172\366\265\216\314\377\017\174\344\140
\066\207\057\255\360\241\045\175\377\322\113\021\210\160\124\246
\101\250\147\123\122\102\136\344\064\236\344\276\243\354\252\142

\135\335\303\114\246\202\101\344\063\013\254\311\063\017\144\202
\127\052\375\014\255\066\341\014\256\113\305\357\073\231\331\043
\263\133\135\264\127\354\164\160\014\052\117\002\003\001\000\001
\243\201\240\060\201\235\060\014\006\003\125\035\023\004\005\060
\003\001\001\377\060\075\006\003\125\035\037\004\066\060\064\060
\062\240\060\240\056\206\054\150\164\164\160\072\057\057\146\145
\144\151\162\056\143\157\155\163\151\147\156\056\143\157\056\151
\154\057\143\162\154\057\103\157\155\123\151\147\156\103\101\056
\143\162\154\060\016\006\003\125\035\017\001\001\377\004\004\003
\002\001\206\060\037\006\003\125\035\043\004\030\060\026\200\024
\113\001\233\076\126\032\145\066\166\313\173\227\252\222\005\356
\062\347\050\061\060\035\006\003\125\035\016\004\026\004\024\113
\001\233\076\126\032\145\066\166\313\173\227\252\222\005\356\062
\347\050\061\060\015\006\011\052\206\110\206\367\015\001\001\005
\005\000\003\202\001\001\000\320\331\245\176\376\051\140\105\235
\176\203\317\156\274\107\156\365\032\236\124\166\102\161\264\074
\130\077\055\100\045\102\366\201\234\361\211\020\310\016\252\170
\117\070\011\127\260\074\300\010\374\065\216\361\110\121\215\014
\161\164\272\204\304\327\162\233\204\174\070\116\144\006\047\052
\341\247\265\354\010\231\264\012\015\324\205\163\310\022\341\065
\355\361\005\061\035\163\231\014\353\226\312\335\323\346\205\252
\360\212\373\165\301\362\011\074\145\145\144\363\114\330\255\313
\210\151\363\344\203\267\014\275\027\132\226\027\312\133\377\255
\273\034\351\055\204\200\330\041\276\205\122\331\324\164\271\151
\205\272\115\355\050\062\353\371\141\112\344\304\066\036\031\334
\157\204\021\037\225\365\203\050\030\250\063\222\103\047\335\135
\023\004\105\117\207\325\106\315\075\250\272\360\363\270\126\044
\105\353\067\307\341\166\117\162\071\030\337\176\164\162\307\163
\055\071\352\140\346\255\021\242\126\207\173\303\150\232\376\370
\214\160\250\337\145\062\364\244\100\214\241\302\104\003\016\224
\000\147\240\161\000\202\110
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER
 CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "ComSign CA"
Issuer: C=IL,O=ComSign,CN=ComSign CA
Serial Number:14:13:96:83:14:55:8c:ea:7b:63:e5:fc:34:87:77:44
Subject: C=IL,O=ComSign,CN=ComSign CA
Not Valid Before: Wed Mar 24 11:32:18 2004
Not Valid After: Mon Mar 19 15:02:18 2029
Fingerprint (MD5): cd:f4:39:f3:b5:18:50:d7:3e:a4:c5:91:a0:3e:21:4b
Fingerprint (SHA1): e1:a4:5b:14:1a:21:da:1a:79:f4:1a:42:a9:61:d6:69:cd:06:34:c1
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

```
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ComSign CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\341\244\133\024\032\041\332\032\171\364\032\102\251\141\326\151
\315\006\064\301
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\315\364\071\363\265\030\120\327\076\244\305\221\240\076\041\113
END
CKA_ISSUER MULTILINE_OCTAL
\060\064\061\023\060\021\006\003\125\004\003\023\012\103\157\155
\123\151\147\156\040\103\101\061\020\060\016\006\003\125\004\012
\023\007\103\157\155\123\151\147\156\061\013\060\011\006\003\125
\004\006\023\002\111\114
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\024\023\226\203\024\125\214\352\173\143\345\374\064\207
\167\104
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "ComSign Secured CA"
# Issuer: C=IL,O=ComSign,CN=ComSign Secured CA
# Serial Number:c7:28:47:09:b3:b8:6c:45:8c:1d:fa:24:f5:36:4e:e9
# Subject: C=IL,O=ComSign,CN=ComSign Secured CA
# Not Valid Before: Wed Mar 24 11:37:20 2004
# Not Valid After: Fri Mar 16 15:04:56 2029
# Fingerprint (MD5): 40:01:25:06:8d:21:43:6a:0e:43:00:9c:e7:43:f3:d5
# Fingerprint (SHA1): f9:cd:0e:2c:da:76:24:c1:8f:bd:f0:f0:ab:b6:45:b8:f7:fe:d5:7a
CKA_CLASS CK_OBJECT_CLASS
 CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ComSign Secured CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\074\061\033\060\031\006\003\125\004\003\023\022\103\157\155
\123\151\147\156\040\123\145\143\165\162\145\144\040\103\101\061
\020\060\016\006\003\125\004\012\023\007\103\157\155\123\151\147
\156\061\013\060\011\006\003\125\004\006\023\002\111\114
```

END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\074\061\033\060\031\006\003\125\004\003\023\022\103\157\155
\123\151\147\156\040\123\145\143\165\162\145\144\040\103\101\061
\020\060\016\006\003\125\004\012\023\007\103\157\155\123\151\147
\156\061\013\060\011\006\003\125\004\006\023\002\111\114
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\307\050\107\011\263\270\154\105\214\035\372\044\365
\066\116\351
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\253\060\202\002\223\240\003\002\001\002\002\021\000
\307\050\107\011\263\270\154\105\214\035\372\044\365\066\116\351
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\074\061\033\060\031\006\003\125\004\003\023\022\103\157\155\123
\151\147\156\040\123\145\143\165\162\145\144\040\103\101\061\020
\060\016\006\003\125\004\012\023\007\103\157\155\123\151\147\156
\061\013\060\011\006\003\125\004\006\023\002\111\114\060\036\027
\015\060\064\060\063\062\064\061\061\063\067\062\060\132\027\015
\062\071\060\063\061\066\061\065\060\064\065\066\132\060\074\061
\033\060\031\006\003\125\004\003\023\022\103\157\155\123\151\147
\156\040\123\145\143\165\162\145\144\040\103\101\061\020\060\016
\006\003\125\004\012\023\007\103\157\155\123\151\147\156\061\013
\060\011\006\003\125\004\006\023\002\111\114\060\202\001\042\060
\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202
\001\017\000\060\202\001\012\002\202\001\001\000\306\265\150\137
\035\224\025\303\244\010\125\055\343\240\127\172\357\351\164\052
\273\271\174\127\111\032\021\136\117\051\207\014\110\326\152\347
\217\324\176\127\044\271\006\211\344\034\074\352\254\343\332\041
\200\163\041\012\357\171\230\154\037\010\377\241\120\175\362\230
\033\311\124\157\076\245\050\354\041\004\017\105\273\007\075\241
\300\372\052\230\035\116\006\223\373\365\210\073\253\137\313\026
\277\346\363\236\112\207\355\031\352\302\237\103\344\361\201\245
\177\020\117\076\321\112\142\255\123\033\313\203\377\007\145\245
\222\055\146\251\133\270\132\364\035\264\041\221\112\027\173\236
\062\376\126\044\071\262\124\204\103\365\204\302\330\274\101\220
\314\235\326\150\332\351\202\120\251\073\150\317\265\135\002\224
\140\026\261\103\331\103\135\335\135\207\156\352\273\263\311\153
\366\003\224\011\160\336\026\021\172\053\350\166\217\111\020\230
\167\271\143\134\213\063\227\165\366\013\214\262\253\133\336\164
\040\045\077\343\363\021\371\207\150\206\065\161\303\035\214\055
\353\345\032\254\017\163\325\202\131\100\200\323\002\003\001\000
\001\243\201\247\060\201\244\060\014\006\003\125\035\023\004\005
\060\003\001\001\377\060\104\006\003\125\035\037\004\075\060\073
\060\071\240\067\240\065\206\063\150\164\164\160\072\057\057\146
\145\144\151\162\056\143\157\155\163\151\147\156\056\143\157\056

\151\154\057\143\162\154\057\103\157\155\123\151\147\156\123\145
\143\165\162\145\144\103\101\056\143\162\154\060\016\006\003\125
\035\017\001\001\377\004\004\003\002\001\206\060\037\006\003\125
\035\043\004\030\060\026\200\024\301\113\355\160\266\367\076\174
\000\073\000\217\307\076\016\105\237\036\135\354\060\035\006\003
\125\035\016\004\026\004\024\301\113\355\160\266\367\076\174\000
\073\000\217\307\076\016\105\237\036\135\354\060\015\006\011\052
\206\110\206\367\015\001\001\005\005\000\003\202\001\001\000\026
\317\356\222\023\120\253\173\024\236\063\266\102\040\152\324\025
\275\011\253\374\162\350\357\107\172\220\254\121\301\144\116\351
\210\275\103\105\201\343\146\043\077\022\206\115\031\344\005\260
\346\067\302\215\332\006\050\311\017\211\244\123\251\165\077\260
\226\373\253\114\063\125\371\170\046\106\157\033\066\230\373\102
\166\301\202\271\216\336\373\105\371\143\033\142\073\071\006\312
\167\172\250\074\011\317\154\066\075\017\012\105\113\151\026\032
\105\175\063\003\145\371\122\161\220\046\225\254\114\014\365\213
\223\077\314\165\164\205\230\272\377\142\172\115\037\211\376\256
\275\224\000\231\277\021\245\334\340\171\305\026\013\175\002\141
\035\352\205\371\002\025\117\347\132\211\116\024\157\343\067\113
\205\365\301\074\141\340\375\005\101\262\222\177\303\035\240\320
\256\122\144\140\153\030\306\046\234\330\365\144\344\066\032\142
\237\212\017\076\377\155\116\031\126\116\040\221\154\237\064\063
\072\064\127\120\072\157\201\136\006\306\365\076\174\116\216\053
\316\145\006\056\135\322\052\123\164\136\323\156\047\236\217
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "ComSign Secured CA"
Issuer: C=IL,O=ComSign,CN=ComSign
Secured CA
Serial Number:c7:28:47:09:b3:b8:6c:45:8c:1d:fa:24:f5:36:4e:e9
Subject: C=IL,O=ComSign,CN=ComSign Secured CA
Not Valid Before: Wed Mar 24 11:37:20 2004
Not Valid After: Fri Mar 16 15:04:56 2029
Fingerprint (MD5): 40:01:25:06:8d:21:43:6a:0e:43:00:9c:e7:43:f3:d5
Fingerprint (SHA1): f9:cd:0e:2c:da:76:24:c1:8f:bd:f0:f0:ab:b6:45:b8:f7:fe:d5:7a
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ComSign Secured CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\371\315\016\054\332\166\044\301\217\275\360\360\253\266\105\270
\367\376\325\172

```
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\100\001\045\006\215\041\103\152\016\103\000\234\347\103\363\325
END
CKA_ISSUER MULTILINE_OCTAL
\060\074\061\033\060\031\006\003\125\004\003\023\022\103\157\155
\123\151\147\156\040\123\145\143\165\162\145\144\040\103\101\061
\020\060\016\006\003\125\004\012\023\007\103\157\155\123\151\147
\156\061\013\060\011\006\003\125\004\006\023\002\111\114
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\021\000\307\050\107\011\263\270\154\105\214\035\372\044\365
\066\116\351
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "ComSign Advanced Security CA"
# Issuer: CN=ComSign Advanced Security CA
# Serial Number:7a:5d:e9:33:d0:04:9e:b3:4a:1a:17:74:cb:16:9b:6d
# Subject: CN=ComSign Advanced Security CA
# Not Valid Before: Wed Mar 24 21:52:04 2004
# Not Valid After: Sat Mar 24 21:55:55 2029
# Fingerprint (MD5): f0:9e:63:93:76:a5:95:bc:18:61:f1:9b:fb:d3:64:dd
# Fingerprint (SHA1): 80:bf:3d:e9:a4:1d:76:8d:19:4b:29:3c:85:63:2c:db:c8:ea:8c:f7
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL
 UTF8 "ComSign Advanced Security CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\047\061\045\060\043\006\003\125\004\003\023\034\103\157\155
\123\151\147\156\040\101\144\166\141\156\143\145\144\040\123\145
\143\165\162\151\164\171\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\047\061\045\060\043\006\003\125\004\003\023\034\103\157\155
\123\151\147\156\040\101\144\166\141\156\143\145\144\040\123\145
\143\165\162\151\164\171\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
```

\002\020\172\135\351\063\320\004\236\263\112\032\027\164\313\026
\233\155
END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\033\060\202\004\003\240\003\002\001\002\002\020\172
\135\351\063\320\004\236\263\112\032\027\164\313\026\233\155\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\047
\061\045\060\043\006\003\125\004\003\023\034\103\157\155\123\151
\147\156\040\101\144\166\141\156\143\145\144\040\123\145\143\165
\162\151\164\171\040\103\101\060\036\027\015\060\064\060\063\062
\064\062\061\065\062\060\064\132\027\015\062\071\060\063\062\064
\062\061\065\065\065\065\132\060\047\061\045\060\043\006\003\125
\004\003\023\034\103\157\155\123\151\147\156\040\101\144\166\141
\156\143\145\144\040\123\145\143\165\162\151\164\171\040\103\101
\060\202\002\040\060\015\006\011\052\206\110\206\367\015\001\001
\001\005\000\003\202\002\015\000\060\202\002\010\002\202\002\001
\000\235\234\134\073\001\204\127\132\364\053\376\155\024\262\154
\267\355\220\327\373\127\103\240\317\140\033\131\057\115\121\140
\075\034\111\242\152\101\143\253\270\355\146\276\100\106\215\252
\222\133\075\056\053\301\141\230\124\154\274\114\253\151\372\215
\105\105\201\052\032\155\370\263\370\017\143\313\216\174\355\124
\051\243\024\030\374\341\311\261\330\124\272\234\312\052\033\320
\254\302\211\030\026\112\376\112\004\322\322\233\265\207\206\301
\311\173\037\066\026\105\271\360\272\206\302\167\212\063\061\102
\242\316\014\162\075\022\345\221\070\364\047\147\141\114\314\342
\365\115\054\022\360\315\263\204\301\011\165\237\000\117\370\167
\323\363\062\157\201\217\027\176\073\233\153\363\036\347\372\223
\117\014\056\227\335\160\130\023\175\363\221\203\215\242\075\061
\332\143\343\071\166\166\063\346\324\146\015\224\216\025\224\234
\070\173\334\161\037\332\265\340\327\227\132\202\164\336\073\006
\332\357\305\053\361\150\335\047\123\370\271\354\214\017\123\042
\344\071\202\344\371\256\141\374\030\050\176\307\151\351\150\364
\176\340\321\274\340\155\310\326\321\253\104\061\141\264\354\170
\065\054\106\336\350\363\266\074\230\263\251\034\007\112\230\315
\107\046\202\360\324\221\357\020\223\347\150\346\122\152\227\176
\271\040\227\027\372\031\062\224\043\236\307\163\262\110\350\230
\265\367\165\126\240\113\235\167\250\032\051\164\070\130\340\310
\315\261\063\033\057\376\230\223\170\005\001\164\253\256\102\305
\033\035\057\174\101\174\245\323\140\252\120\301\363\310\210\101
\130\366\265\222\030\375\256\146\216\234\347\073\232\321\267\333
\332\307\114\313\042\033\112\077\140\337\071\366\332\352\256\314
\207\225\270\122\233\132\235\121\105\014\166\357\051\101\245\012
\271\370\136\304\275\054\114\064\110\107\325\213\310\314\317\321
\073\130\345\172\306\375\041\354\167\051\257\363\132\124\016\251
\244\144\174\367\134\321\241\023\345\073\324\133\113\000\224\311
\313\015\335\004\117\333\150\262\267\147\043\366\141\245\254\017
\071\076\232\303\057\251\144\303\022\205\232\244\242\122\324\171
\374\272\043\253\011\032\355\075\231\235\331\347\050\370\017\120

\117\002\001\003\243\202\001\103\060\202\001\077\060\013\006\003
\125\035\017\004\004\003\002\001\206\060\017\006\003\125\035\023
\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125\035
\016\004\026\004\024\351\372\047\345\355\113\041\160\144\326\161
\252\174\345\202\034\060\322\015\172\060\115\006\003\125\035\037
\004\106\060\104\060\102\240\100\240\076\206\074\150\164\164\160
\072\057\057\146\145\144\151\162\056\143\157\155\163\151\147\156
\056\143\157\056\151\154\057\143\162\154\057\103\157\155\123\151
\147\156\101\144\166\141\156\143\145\144\123\145\143\165\162\151
\164\171\103\101\056\143\162\154\060\020\006\011\053\006\001\004
\001\202\067\025\001\004\003\002\001\000\060\102\006\003\125\035
\040\004\073\060\071\060\067\006\011\052\003\004\005\006\007\010
\011\012\060\052\060\050\006\010\053\006\001\005\005\007\002\001
\026\034\150\164\164\160\072\057\057\167\167\167\056\143\157\155
\163\151\147\156\056\143\157\056\151\154\057\143\160\163\060\133
\006\010\053\006\001\005\005\007\001\001\004\117\060\115\060\113
\006\010\053\006\001\005\005\007\060\002\206\077\150\164\164\160
\072\057\057\146\145\144\151\162\056\143\157\155\163\151\147\156
\056\143\157\056\151\154\057\143\141\143\145\162\164\057\103\157
\155\123\151\147\156\101\144\166\141\156\143\145\144\123\145\143
\165\162\151\164\171\103\101\056\143\162\164\060\015\006\011\052
\206\110\206\367\015\001\001\005\005\000\003\202\002\001\000\234
\215\135\232\006\021\241\156\026\030\117\313\262\002\073\222\217
\035\046\245\313\353\110\356\125\035\252\020\340\151\116\301\376
\062\000\336\017\316\015\264\143\274\340\142\032\340\367\365\251
\345\311\124\024\213\100\370\255\363\155\002\354\216\173\334\245
\171\222\001\265\377\241\131\143\071\021\265\276\122\256\164\332
\331\041\243\022\330\307\225\370\333\157\126\125\277\225\022\275
\062\043\307\311\154\145\001\357\373\164\216\273\044\206\117\175
\335\360\132\217\073\204\214\171\165\051\364\206\266\323\301\014
\131\025\302\003\127\253\075\110\327\054\105\224\100\334\340\251
\113\137\314\020\327\226\277\251\234\003\052\144\362\274\176\370
\245\247\231\221\047\005\376\111\247\330\255\012\206\066\074\016
\075\246\341\174\152\201\021\173\105\273\150\215\065\061\375\046
\123\101\076\074\156\153\036\330\253\055\211\201\231\306\037\227
\363\132\365\037\141\275\376\025\131\223\012\336\372\121\372\106
\337\106\364\374\142\154\130\243\014\336\311\031\036\300\034\133
\070\073\101\217\005\061\016\256\355\054\135\267\017\334\071\304
\137\042\263\245\262\130\060\044\277\371\011\255\360\226\033\067
\157\100\146\376\267\052\211\325\306\343\176\003\130\260\175\070
\346\212\253\077\365\201\363\012\101\167\002\163\355\247\124\335
\007\061\134\266\265\166\222\164\167\271\157\246\011\272\016\335
\014\347\166\304\113\276\313\073\325\105\300\211\343\053\167\172
\142\230\303\133\374\175\127\136\216\356\335\033\120\041\155\221
\277\031\134\217\227\171\052\301\213\141\157\252\136\122\365\351
\117\064\230\060\275\034\007\303\267\304\174\201\331\243\103\062
\146\306\055\274\071\133\251\135\211\353\004\053\104\225\107\371
\122\364\117\005\356\243\052\143\021\015\036\272\304\370\112\133

\120\100\121\167\056\364\344\337\361\003\024\346\171\151\332\130
\104\202\130\024\203\221\064\003\327\172\155\152\321\062\042\051
\221\033\032\344\013\275\062\025\047\040\277\032\157\122\202\323
\371\057\111\017\220\154\001\200\111\256\030\356\062\054\316\021
\307\376\240\004\230\150\224\360\374\213\305\054\157\207\375\331
\302\304\034\351\055\314\016\254\237\365\361\374\222\070\215
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "ComSign Advanced Security CA"
Issuer: CN=ComSign Advanced Security CA
Serial Number:7a:5d:e9:33:d0:04:9e:b3:4a:1a:17:74:cb:16:9b:6d
Subject: CN=ComSign Advanced Security CA
Not Valid Before: Wed Mar 24 21:52:04 2004
Not Valid After: Sat Mar 24 21:55:55 2029
Fingerprint (MD5): f0:9e:63:93:76:a5:95:bc:18:61:f1:9b:fb:d3:64:dd
Fingerprint (SHA1): 80:bf:3d:e9:a4:1d:76:8d:19:4b:29:3c:85:63:2c:db:c8:ea:8c:f7
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ComSign Advanced Security CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\200\277\075\351\244\035\166\215\031\113\051\074\205\143\054\333
\310\352\214\367
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\360\236\143\223\166\245\225\274\030\141\361\233\373\323\144\335
END
CKA_ISSUER
 MULTILINE_OCTAL
\060\047\061\045\060\043\006\003\125\004\003\023\034\103\157\155
\123\151\147\156\040\101\144\166\141\156\143\145\144\040\123\145
\143\165\162\151\164\171\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\172\135\351\063\320\004\236\263\112\032\027\164\313\026
\233\155
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

```
# Microsoft Code Signing Only Certificate
# Certificate "Chambers of Commerce Root"
# Issuer: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF
A82743287,C=EU
# Serial Number: 0 (0x0)
# Subject: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF
A82743287,C=EU
# Not Valid Before: Tue Sep 30 16:13:43 2003
# Not Valid After: Wed Sep 30 16:13:44 2037
# Fingerprint (MD5): b0:01:ee:14:d9:af:29:18:94:76:8e:f1:69:33:2a:84
#
 Fingerprint (SHA1): 6e:3a:55:a4:19:0c:19:5c:93:84:3c:c0:db:72:2e:31:30:61:f0:b1
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Chambers of Commerce Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\177\061\013\060\011\006\003\125\004\006\023\002\105\125\061
\047\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155
\145\162\146\151\162\155\141\040\123\101\040\103\111\106\040\101
\070\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004
\013\023\032\150\164\164\160\072\057\057\167\167\167\056\143\150
\141\155\142\145\162\163\151\147\156\056\157\162\147\061\042\060
\040\006\003\125\004\003\023\031\103\150\141\155\142\145\162\163
\040\157\146\040\103\157\155\155\145\162\143\145\040\122\157\157
\164
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\177\061\013\060\011\006\003\125\004\006\023\002\105\125\061
\047\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155
\145\162\146\151\162\155\141\040\123\101\040\103\111\106\040\101
\070\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004
\013\023\032\150\164\164\160\072\057\057\167\167\167\056\143\150
\141\155\142\145\162\163\151\147\156\056\157\162\147\061\042\060
\040\006\003\125\004\003\023\031\103\150\141\155\142\145\162\163
\040\157\146\040\103\157\155\155\145\162\143\145\040\122\157\157
\164
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\275\060\202\003\245\240\003\002\001\002\002\001\000
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
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\177\061\013\060\011\006\003\125\004\006\023\002\105\125\061\047
\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155\145
\162\146\151\162\155\141\040\123\101\040\103\111\106\040\101\070
\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004\013
\023\032\150\164\164\160\072\057\057\167\167\167\056\143\150\141
\155\142\145\162\163\151\147\156\056\157\162\147\061\042\060\040
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\060\036\027\015\060\063\060\071\063\060\061\066\061\063\064\063
\132\027\015\063\067\060\071\063\060\061\066\061\063\064\064\132
\060\177\061\013\060\011\006\003\125\004\006\023\002\105\125\061
\047\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155
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\040\157\146\040\103\157\155\155\145\162\143\145\040\122\157\157
\164\060\202\001\040\060\015\006\011\052\206\110\206\367\015\001
\001\001\005\000\003\202\001\015\000\060\202\001\010\002\202\001
\001\000\267\066\125\345\245\135\030\060\340\332\211\124\221\374
\310\307\122\370\057\120\331\357\261\165\163\145\107\175\033\133
\272\165\305\374\241\210\044\372\057\355\312\010\112\071\124\304
\121\172\265\332\140\352\070\074\201\262\313\361\273\331\221\043
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\322\224\034\152\110\311\311\362\245\332\245\014\043\367\043\016
\234\062\125\136\161\234\204\005\121\232\055\375\346\116\052\064
\132\336\312\100\067\147\014\124\041\125\167\332\012\014\314\227
\256\200\334\224\066\112\364\076\316\066\023\036\123\344\254\116
\072\005\354\333\256\162\234\070\213\320\071\073\211\012\076\167
\376\165\002\001\003\243\202\001\104\060\202\001\100\060\022\006
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\014\060\074\006\003\125\035\037\004\065\060\063\060\061\240\057
\240\055\206\053\150\164\164\160\072\057\057\143\162\154\056\143
\150\141\155\142\145\162\163\151\147\156\056\157\162\147\057\143
\150\141\155\142\145\162\163\162\157\157\164\056\143\162\154\060
\035\006\003\125\035\016\004\026\004\024\343\224\365\261\115\351
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\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060\021
\006\011\140\206\110\001\206\370\102\001\001\004\004\003\002\000
\007\060\047\006\003\125\035\021\004\040\060\036\201\034\143\150
\141\155\142\145\162\163\162\157\157\164\100\143\150\141\155\142

\145\162\163\151\147\156\056\157\162\147\060\047\006\003\125\035
\022\004\040\060\036\201\034\143\150\141\155\142\145\162\163\162
\157\157\164\100\143\150\141\155\142\145\162\163\151\147\156\056
\157\162\147\060\130\006\003\125\035\040\004\121\060\117\060\115
\006\013\053\006\001\004\001\201\207\056\012\003\001\060\076\060
\074\006\010\053\006\001\005\005\007\002\001\026\060\150\164\164
\160\072\057\057\143\160\163\056\143\150\141\155\142\145\162\163
\151\147\156\056\157\162\147\057\143\160\163\057\143\150\141\155
\142\145\162\163\162\157\157\164\056\150\164\155\154\060\015\006
\011\052\206\110\206\367\015\001\001\005\005\000\003\202\001\001
\000\014\101\227\302\032\206\300\042\174\237\373\220\363\032\321
\003\261\357\023\371\041\137\004\234\332\311\245\215\047\154\226
\207\221\276\101\220\001\162\223\347\036\175\137\366\211\306\135
\247\100\011\075\254\111\105\105\334\056\215\060\150\262\011\272
\373\303\057\314\272\013\337\077\167\173\106\175\072\022\044\216
\226\217\074\005\012\157\322\224\050\035\155\014\300\056\210\042
\325\330\317\035\023\307\360\110\327\327\005\247\317\307\107\236
\073\074\064\310\200\117\324\024\273\374\015\120\367\372\263\354
\102\137\251\335\155\310\364\165\317\173\301\162\046\261\001\034
\134\054\375\172\116\264\001\305\005\127\271\347\074\252\005\331
\210\351\007\106\101\316\357\101\201\256\130\337\203\242\256\312
\327\167\037\347\000\074\235\157\216\344\062\011\035\115\170\064
\170\064\074\224\233\046\355\117\161\306\031\172\275\040\042\110
\132\376\113\175\003\267\347\130\276\306\062\116\164\036\150\335
\250\150\133\263\076\356\142\175\331\200\350\012\165\172\267\356
\264\145\232\041\220\340\252\320\230\274\070\265\163\074\213\370
\334
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Chambers of Commerce Root"
Issuer: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF A82743287,C=EU
Serial Number: 0 (0x0)
Subject: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF A82743287,C=EU
Not Valid Before: Tue Sep 30 16:13:43 2003
Not Valid After: Wed Sep 30 16:13:44 2037
Fingerprint (MD5): b0:01:ee:14:d9:af:29:18:94:76:8e:f1:69:33:2a:84
Fingerprint (SHA1): 6e:3a:55:a4:19:0c:19:5c:93:84:3c:c0:db:72:2e:31:30:61:f0:b1
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Chambers of Commerce Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\156\072\125\244\031\014\031\134\223\204\074\300\333\162\056\061
\060\141\360\261
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\260\001\356\024\331\257\051\030\224\166\216\361\151\063\052\204
END
CKA_ISSUER MULTILINE_OCTAL
\060\177\061\013\060\011\006\003\125\004\006\023\002\105\125\061
\047\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155
\145\162\146\151\162\155\141\040\123\101\040\103\111\106\040\101
\070\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004
\013\023\032\150\164\164\160\072\057\057\167\167\167\056\143\150
\141\155\142\145\162\163\151\147\156\056\157\162\147\061\042\060
\040\006\003\125\004\003\023\031\103\150\141\155\142\145\162\163
\040\157\146\040\103\157\155\155\145\162\143\145\040\122\157\157
\164
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Global Chambersign Root"
# Issuer: CN=Global Chambersign Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF
A82743287,C=EU
# Serial Number: 0 (0x0)
# Subject: CN=Global Chambersign Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF
A82743287,C=EU
# Not Valid Before: Tue Sep 30 16:14:18 2003
# Not Valid After: Wed Sep 30 16:14:18 2037
# Fingerprint (MD5): c5:e6:7b:bf:06:d0:4f:43:ed:c4:7a:65:8a:fb:6b:19
# Fingerprint (SHA1): 33:9b:6b:14:50:24:9b:55:7a:01:87:72:84:d9:e0:2f:c3:d2:d8:e9
CKA_CLASS
 CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Global Chambersign Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
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\060\175\061\013\060\011\006\003\125\004\006\023\002\105\125\061
\047\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155
\145\162\146\151\162\155\141\040\123\101\040\103\111\106\040\101
\070\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004
\013\023\032\150\164\164\160\072\057\057\167\167\167\056\143\150
\141\155\142\145\162\163\151\147\156\056\157\162\147\061\040\060
\036\006\003\125\004\003\023\027\107\154\157\142\141\154\040\103
\150\141\155\142\145\162\163\151\147\156\040\122\157\157\164
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\175\061\013\060\011\006\003\125\004\006\023\002\105\125\061
\047\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155
\145\162\146\151\162\155\141\040\123\101\040\103\111\106\040\101
\070\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004
\013\023\032\150\164\164\160\072\057\057\167\167\167\056\143\150
\141\155\142\145\162\163\151\147\156\056\157\162\147\061\040\060
\036\006\003\125\004\003\023\027\107\154\157\142\141\154\040\103
\150\141\155\142\145\162\163\151\147\156\040\122\157\157\164
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\305\060\202\003\255\240\003\002\001\002\002\001\000
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\175\061\013\060\011\006\003\125\004\006\023\002\105\125\061\047
\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155\145
\162\146\151\162\155\141\040\123\101\040\103\111\106\040\101\070
\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004\013
\023\032\150\164\164\160\072\057\057\167\167\167\056\143\150\141
\155\142\145\162\163\151\147\156\056\157\162\147\061\040\060\036
\006\003\125\004\003\023\027\107\154\157\142\141\154\040\103\150
\141\155\142\145\162\163\151\147\156\040\122\157\157\164\060\036
\027\015\060\063\060\071\063\060\061\066\061\064\061\070\132\027
\015\063\067\060\071\063\060\061\066\061\064\061\070\132\060\175
\061\013\060\011\006\003\125\004\006\023\002\105\125\061\047\060
\045\006\003\125\004\012\023\036\101\103\040\103\141\155\145\162
\146\151\162\155\141\040\123\101\040\103\111\106\040\101\070\062
\067\064\063\062\070\067\061\043\060\041\006\003\125\004\013\023
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\142\145\162\163\151\147\156\056\157\162\147\061\040\060\036\006
\003\125\004\003\023\027\107\154\157\142\141\154\040\103\150\141
\155\142\145\162\163\151\147\156\040\122\157\157\164\060\202\001
\040\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000
\003\202\001\015\000\060\202\001\010\002\202\001\001\000\242\160
\242\320\237\102\256\133\027\307\330\175\317\024\203\374\117\311

\241\267\023\257\212\327\236\076\004\012\222\213\140\126\372\264
\062\057\210\115\241\140\010\364\267\011\116\240\111\057\111\326
\323\337\235\227\132\237\224\004\160\354\077\131\331\267\314\146
\213\230\122\050\011\002\337\305\057\204\215\172\227\167\277\354
\100\235\045\162\253\265\077\062\230\373\267\267\374\162\204\345
\065\207\371\125\372\243\037\016\157\056\050\335\151\240\331\102
\020\306\370\265\104\302\320\103\177\333\274\344\242\074\152\125
\170\012\167\251\330\352\031\062\267\057\376\134\077\033\356\261
\230\354\312\255\172\151\105\343\226\017\125\366\346\355\165\352
\145\350\062\126\223\106\211\250\045\212\145\006\356\153\277\171
\007\320\361\267\257\355\054\115\222\273\300\250\137\247\147\175
\004\362\025\010\160\254\222\326\175\004\322\063\373\114\266\013
\013\373\032\311\304\215\003\251\176\134\362\120\253\022\245\241
\317\110\120\245\357\322\310\032\023\372\260\177\261\202\034\167
\152\017\137\334\013\225\217\357\103\176\346\105\011\045\002\001
\003\243\202\001\120\060\202\001\114\060\022\006\003\125\035\023
\001\001\377\004\010\060\006\001\001\377\002\001\014\060\077\006
\003\125\035\037\004\070\060\066\060\064\240\062\240\060\206\056
\150\164\164\160\072\057\057\143\162\154\056\143\150\141\155\142
\145\162\163\151\147\156\056\157\162\147\057\143\150\141\155\142
\145\162\163\151\147\156\162\157\157\164\056\143\162\154\060\035
\006\003\125\035\016\004\026\004\024\103\234\066\237\260\236\060
\115\306\316\137\255\020\253\345\003\245\372\251\024\060\016\006
\003\125\035\017\001\001\377\004\004\003\002\001\006\060\021\006
\011\140\206\110\001\206\370\102\001\001\004\004\003\002\000\007
\060\052\006\003\125\035\021\004\043\060\041\201\037\143\150\141
\155\142\145\162\163\151\147\156\162\157\157\164\100\143\150\141
\155\142\145\162\163\151\147\156\056\157\162\147\060\052\006\003
\125\035\022\004\043\060\041\201\037\143\150\141\155\142\145\162
\163\151\147\156\162\157\157\164\100\143\150\141\155\142\145\162
\163\151\147\156\056\157\162\147\060\133\006\003\125\035\040\004
\124\060\122\060\120\006\013\053\006\001\004\001\201\207\056\012
\001\001\060\101\060\077\006\010\053\006\001\005\005\007\002\001
\026\063\150\164\164\160\072\057\057\143\160\163\056\143\150\141
\155\142\145\162\163\151\147\156\056\157\162\147\057\143\160\163
\057\143\150\141\155\142\145\162\163\151\147\156\162\157\157\164
\056\150\164\155\154\060\015\006\011\052\206\110\206\367\015\001
\001\005\005\000\003\202\001\001\000\074\073\160\221\371\004\124
\047\221\341\355\355\376\150\177\141\135\345\101\145\117\062\361
\030\005\224\152\034\336\037\160\333\076\173\062\002\064\265\014
\154\241\212\174\245\364\217\377\324\330\255\027\325\055\004\321
\077\130\200\342\201\131\210\276\300\343\106\223\044\376\220\275
\046\242\060\055\350\227\046\127\065\211\164\226\030\366\025\342
\257\044\031\126\002\002\262\272\017\024\352\306\212\146\301\206
\105\125\213\276\222\276\234\244\004\307\111\074\236\350\051\172
\211\327\376\257\377\150\365\245\027\220\275\254\231\314\245\206
\127\011\147\106\333\326\026\302\106\361\344\251\120\365\217\321
\222\025\323\137\076\306\000\111\072\156\130\262\321\321\047\015

\045\310\062\370\040\021\315\175\062\063\110\224\124\114\335\334
\171\304\060\237\353\216\270\125\265\327\210\134\305\152\044\075
\262\323\005\003\121\306\007\357\314\024\162\164\075\156\162\316
\030\050\214\112\240\167\345\011\053\105\104\107\254\267\147\177
\001\212\005\132\223\276\241\301\377\370\347\016\147\244\107\111
\166\135\165\220\032\365\046\217\360
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Global Chambersign Root"
Issuer: CN=Global Chambersign Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF A82743287,C=EU
Serial Number: 0 (0x0)
Subject: CN=Global Chambersign Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF A82743287,C=EU
Not Valid Before: Tue Sep 30 16:14:18 2003
Not Valid After: Wed Sep 30 16:14:18 2037
Fingerprint (MD5): c5:e6:7b:bf:06:d0:4f:43:ed:c4:7a:65:8a:fb:6b:19
#
Fingerprint (SHA1): 33:9b:6b:14:50:24:9b:55:7a:01:87:72:84:d9:e0:2f:c3:d2:d8:e9
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Global Chambersign Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\063\233\153\024\120\044\233\125\172\001\207\162\204\331\340\057
\303\322\330\351
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\305\346\173\277\006\320\117\103\355\304\172\145\212\373\153\031
END
CKA_ISSUER MULTILINE_OCTAL
\060\175\061\013\060\011\006\003\125\004\006\023\002\105\125\061
\047\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155
\145\162\146\151\162\155\141\040\123\101\040\103\111\106\040\101
\070\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004
\013\023\032\150\164\164\160\072\057\057\167\167\167\056\143\150
\141\155\142\145\162\163\151\147\156\056\157\162\147\061\040\060
\036\006\003\125\004\003\023\027\107\154\157\142\141\154\040\103
\150\141\155\142\145\162\163\151\147\156\040\122\157\157\164
END
CKA_SERIAL_NUMBER

```
 MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "GeoTrust Global CA"
# Issuer: CN=GeoTrust Global CA,O=GeoTrust Inc.,C=US
# Serial Number: 144470 (0x23456)
# Subject: CN=GeoTrust Global CA,O=GeoTrust Inc.,C=US
# Not Valid Before: Tue May 21 04:00:00 2002
# Not Valid After: Sat May 21 04:00:00 2022
# Fingerprint (MD5): f7:75:ab:29:fb:51:4e:b7:77:5e:ff:05:3c:99:8e:f5
# Fingerprint (SHA1): de:28:f4:a4:ff:e5:b9:2f:a3:c5:03:d1:a3:49:a7:f9:96:2a:82:12
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Global CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\102\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165
\163\164\040\111\156\143\056\061\033\060\031\006\003\125\004\003
\023\022\107\145\157\124\162\165\163\164\040\107\154\157\142\141
\154\040\103\101
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\102\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165
\163\164\040\111\156\143\056\061\033\060\031\006\003\125\004\003
\023\022\107\145\157\124\162\165\163\164\040\107\154\157\142\141
\154\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\002\064\126
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\124\060\202\002\074\240\003\002\001\002\002\003\002
\064\126\060\015\006\011\052\206\110\206\367\015\001\001\005\005
\000\060\102\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162
\165\163\164\040\111\156\143\056\061\033\060\031\006\003\125\004
```

\003\023\022\107\145\157\124\162\165\163\164\040\107\154\157\142
\141\154\040\103\101\060\036\027\015\060\062\060\065\062\061\060
\064\060\060\060\060\132\027\015\062\062\060\065\062\061\060\064
\060\060\060\060\132\060\102\061\013\060\011\006\003\125\004\006
\023\002\125\123\061\026\060\024\006\003\125\004\012\023\015\107
\145\157\124\162\165\163\164\040\111\156\143\056\061\033\060\031
\006\003\125\004\003\023\022\107\145\157\124\162\165\163\164\040
\107\154\157\142\141\154\040\103\101\060\202\001\042\060\015\006
\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017
\000\060\202\001\012\002\202\001\001\000\332\314\030\143\060\375
\364\027\043\032\126\176\133\337\074\154\070\344\161\267\170\221
\324\274\241\330\114\370\250\103\266\003\351\115\041\007\010\210
\332\130\057\146\071\051\275\005\170\213\235\070\350\005\267\152
\176\161\244\346\304\140\246\260\357\200\344\211\050\017\236\045
\326\355\203\363\255\246\221\307\230\311\102\030\065\024\235\255
\230\106\222\056\117\312\361\207\103\301\026\225\127\055\120\357
\211\055\200\172\127\255\362\356\137\153\322\000\215\271\024\370
\024\025\065\331\300\106\243\173\162\310\221\277\311\125\053\315
\320\227\076\234\046\144\314\337\316\203\031\161\312\116\346\324
\325\173\251\031\315\125\336\310\354\322\136\070\123\345\134\117
\214\055\376\120\043\066\374\146\346\313\216\244\071\031\000\267
\225\002\071\221\013\016\376\070\056\321\035\005\232\366\115\076
\157\017\007\035\257\054\036\217\140\071\342\372\066\123\023\071
\324\136\046\053\333\075\250\024\275\062\353\030\003\050\122\004
\161\345\253\063\075\341\070\273\007\066\204\142\234\171\352\026
\060\364\137\300\053\350\161\153\344\371\002\003\001\000\001\243
\123\060\121\060\017\006\003\125\035\023\001\001\377\004\005\060
\003\001\001\377\060\035\006\003\125\035\016\004\026\004\024\300
\172\230\150\215\211\373\253\005\144\014\021\175\252\175\145\270
\312\314\116\060\037\006\003\125\035\043\004\030\060\026\200\024
\300\172\230\150\215\211\373\253\005\144\014\021\175\252\175\145
\270\312\314\116\060\015\006\011\052\206\110\206\367\015\001\001
\005\005\000\003\202\001\001\000\065\343\051\152\345\057\135\124
\216\051\120\224\237\231\032\024\344\217\170\052\142\224\242\047
\147\236\320\317\032\136\107\351\301\262\244\317\335\101\032\005
\116\233\113\356\112\157\125\122\263\044\241\067\012\353\144\166
\052\056\054\363\375\073\165\220\277\372\161\330\307\075\067\322
\265\005\225\142\271\246\336\211\075\066\173\070\167\110\227\254
\246\040\217\056\246\311\014\302\262\231\105\000\307\316\021\121
\042\042\340\245\352\266\025\110\011\144\352\136\117\164\367\005
\076\307\212\122\014\333\025\264\275\155\233\345\306\261\124\150
\251\343\151\220\266\232\245\017\270\271\077\040\175\256\112\265
\270\234\344\035\266\253\346\224\245\301\307\203\255\333\365\047
\207\016\004\154\325\377\335\240\135\355\207\122\267\053\025\002
\256\071\246\152\164\351\332\304\347\274\115\064\036\251\134\115
\063\137\222\011\057\210\146\135\167\227\307\035\166\023\251\325
\345\361\026\011\021\065\325\254\333\044\161\160\054\230\126\013
\331\027\264\321\343\121\053\136\165\350\325\320\334\117\064\355

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\302\005\146\200\241\313\346\063
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Trust for "GeoTrust Global CA"
# Issuer: CN=GeoTrust Global CA,O=GeoTrust Inc.,C=US
# Serial Number: 144470 (0x23456)
# Subject: CN=GeoTrust Global CA,O=GeoTrust Inc.,C=US
# Not Valid Before: Tue May 21 04:00:00 2002
# Not Valid After: Sat May 21 04:00:00 2022
# Fingerprint (MD5): f7:75:ab:29:fb:51:4e:b7:77:5e:ff:05:3c:99:8e:f5
# Fingerprint (SHA1): de:28:f4:a4:ff:e5:b9:2f:a3:c5:03:d1:a3:49:a7:f9:96:2a:82:12
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Global CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\336\050\364\244\377\345\271\057\243\305\003\321\243\111\247\371
\226\052\202\022
END
CKA_CERT_MD5_HASH
 MULTILINE_OCTAL
\367\165\253\051\373\121\116\267\167\136\377\005\074\231\216\365
END
CKA_ISSUER MULTILINE_OCTAL
\060\102\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165
\163\164\040\111\156\143\056\061\033\060\031\006\003\125\004\003
\023\022\107\145\157\124\162\165\163\164\040\107\154\157\142\141
\154\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\002\064\126
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "GeoTrust Global CA 2"
# Issuer: CN=GeoTrust Global CA 2,O=GeoTrust Inc.,C=US
# Serial Number: 1 (0x1)
```

```
# Subject: CN=GeoTrust Global CA 2,O=GeoTrust Inc.,C=US
# Not Valid Before: Thu Mar 04
 05:00:00 2004
# Not Valid After: Mon Mar 04 05:00:00 2019
# Fingerprint (MD5): 0e:40:a7:6c:de:03:5d:8f:d1:0f:e4:d1:8d:f9:6c:a9
# Fingerprint (SHA1): a9:e9:78:08:14:37:58:88:f2:05:19:b0:6d:2b:0d:2b:60:16:90:7d
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Global CA 2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165
\163\164\040\111\156\143\056\061\035\060\033\006\003\125\004\003
\023\024\107\145\157\124\162\165\163\164\040\107\154\157\142\141
\154\040\103\101\040\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165
\163\164\040\111\156\143\056\061\035\060\033\006\003\125\004\003
\023\024\107\145\157\124\162\165\163\164\040\107\154\157\142\141
\154\040\103\101\040\062
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\146\060\202\002\116\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\104\061\013\060\011\006\003\125\004\006\023\002\125\123\061\026
\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165\163
\164\040\111\156\143\056\061\035\060\033\006\003\125\004\003\023
\024\107\145\157\124\162\165\163\164\040\107\154\157\142\141\154
\040\103\101\040\062\060\036\027\015\060\064\060\063\060\064\060
\065\060\060\060\060\132\027\015\061\071\060\063\060\064\060\065
\060\060\060\060\132\060\104\061\013\060\011\006\003\125\004\006
\023\002\125\123\061\026\060\024\006\003\125\004\012\023\015\107
\145\157\124\162\165\163\164\040\111\156\143\056\061\035\060\033
\006\003\125\004\003\023\024\107\145\157\124\162\165\163\164\040
\107\154\157\142\141\154\040\103\101\040\062\060\202\001\042\060
\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202
\001\017\000\060\202\001\012\002\202\001\001\000\357\074\115\100
\075\020\337\073\123\000\341\147\376\224\140\025\076\205\210\361
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\211\015\220\310\050\043\231\005\350\053\040\235\306\363\140\106
\330\301\262\325\214\061\331\334\040\171\044\201\277\065\062\374
\143\151\333\261\052\153\356\041\130\362\010\351\170\313\157\313
\374\026\122\310\221\304\377\075\163\336\261\076\247\302\175\146
\301\365\176\122\044\032\342\325\147\221\320\202\020\327\170\113
\117\053\102\071\275\144\055\100\240\260\020\323\070\110\106\210
\241\014\273\072\063\052\142\230\373\000\235\023\131\177\157\073
\162\252\356\246\017\206\371\005\141\352\147\177\014\067\226\213
\346\151\026\107\021\302\047\131\003\263\246\140\302\041\100\126
\372\240\307\175\072\023\343\354\127\307\263\326\256\235\211\200
\367\001\347\054\366\226\053\023\015\171\054\331\300\344\206\173
\113\214\014\162\202\212\373\027\315\000\154\072\023\074\260\204
\207\113\026\172\051\262\117\333\035\324\013\363\146\067\275\330
\366\127\273\136\044\172\270\074\213\271\372\222\032\032\204\236
\330\164\217\252\033\177\136\364\376\105\042\041\002\003\001\000
\001\243\143\060\141\060\017\006\003\125\035\023\001\001\377\004
\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026\004
\024\161\070\066\362\002\061\123\107\053\156\272\145\106\251\020
\025\130\040\005\011\060\037\006\003\125\035\043\004\030\060\026
\200\024\161\070\066\362\002\061\123\107\053\156\272\145\106\251
\020\025\130\040\005\011\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\206\060\015\006\011\052\206\110\206\367\015
\001\001\005\005\000\003\202\001\001\000\003\367\265\053\253\135
\020\374\173\262\262\136\254\233\016\176\123\170\131\076\102\004
\376\165\243\255\254\201\116\327\002\213\136\304\055\310\122\166
\307\054\037\374\201\062\230\321\113\306\222\223\063\065\061\057
\374\330\035\104\335\340\201\177\235\351\213\341\144\221\142\013
\071\010\214\254\164\235\131\331\172\131\122\227\021\271\026\173
\157\105\323\226\331\061\175\002\066\017\234\073\156\317\054\015
\003\106\105\353\240\364\177\110\104\306\010\100\314\336\033\160
\265\051\255\272\213\073\064\145\165\033\161\041\035\054\024\012
\260\226\225\270\326\352\362\145\373\051\272\117\352\221\223\164
\151\266\362\377\341\032\320\014\321\166\205\313\212\045\275\227
\136\054\157\025\231\046\347\266\051\377\042\354\311\002\307\126
\000\315\111\271\263\154\173\123\004\032\342\250\311\252\022\005
\043\302\316\347\273\004\002\314\300\107\242\344\304\051\057\133
\105\127\211\121\356\074\353\122\010\377\007\065\036\237\065\152
\107\112\126\230\321\132\205\037\214\365\042\277\253\316\203\363
\342\042\051\256\175\203\100\250\272\154
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "GeoTrust Global CA 2"
Issuer: CN=GeoTrust Global CA 2,O=GeoTrust Inc.,C=US

```
# Serial Number:
 1 (0x1)
# Subject: CN=GeoTrust Global CA 2,O=GeoTrust Inc.,C=US
# Not Valid Before: Thu Mar 04 05:00:00 2004
# Not Valid After: Mon Mar 04 05:00:00 2019
# Fingerprint (MD5): 0e:40:a7:6c:de:03:5d:8f:d1:0f:e4:d1:8d:f9:6c:a9
# Fingerprint (SHA1): a9:e9:78:08:14:37:58:88:f2:05:19:b0:6d:2b:0d:2b:60:16:90:7d
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Global CA 2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\251\351\170\010\024\067\130\210\362\005\031\260\155\053\015\053
\140\026\220\175
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\016\100\247\154\336\003\135\217\321\017\344\321\215\371\154\251
END
CKA_ISSUER MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165
\163\164\040\111\156\143\056\061\035\060\033\006\003\125\004\003
\023\024\107\145\157\124\162\165\163\164\040\107\154\157\142\141
\154\040\103\101\040\062
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "GeoTrust Universal CA"
# Issuer: CN=GeoTrust Universal CA,O=GeoTrust Inc.,C=US
# Serial Number: 1 (0x1)
# Subject: CN=GeoTrust Universal CA,O=GeoTrust Inc.,C=US
# Not Valid Before: Thu Mar 04 05:00:00 2004
# Not Valid After: Sun Mar 04 05:00:00 2029
# Fingerprint (MD5): 92:65:58:8b:a2:1a:31:72:73:68:5c:b4:a5:7a:07:48
# Fingerprint (SHA1): e6:21:f3:35:43:79:05:9a:4b:68:30:9d:8a:2f:74:22:15:87:ec:79
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

```
CKA_LABEL UTF8 "GeoTrust Universal CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165
\163\164\040\111\156\143\056\061\036\060\034\006\003\125\004\003
\023\025\107\145\157\124\162\165\163\164\040\125\156\151\166\145
\162\163\141\154\040\103\101
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165
\163\164\040\111\156\143\056\061\036\060\034\006\003\125\004\003
\023\025\107\145\157\124\162\165\163\164\040\125\156\151\166\145
\162\163\141\154\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\150\060\202\003\120\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\105\061\013\060\011\006\003\125\004\006\023\002\125\123\061\026
\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165\163
\164\040\111\156\143\056\061\036\060\034\006\003\125\004\003\023
\025\107\145\157\124\162\165\163\164\040\125\156\151\166\145\162
\163\141\154\040\103\101\060\036\027\015\060\064\060\063\060\064
\060\065\060\060\060\060\132\027\015\062\071\060\063\060\064\060
\065\060\060\060\060\132\060\105\061\013\060\011\006\003\125\004
\006\023\002\125\123\061\026\060\024\006\003\125\004\012\023\015
\107\145\157\124\162\165\163\164\040\111\156\143\056\061\036\060
\034\006\003\125\004\003\023\025\107\145\157\124\162\165\163\164
\040\125\156\151\166\145\162\163\141\154\040\103\101\060\202\002
\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000
\003\202\002\017\000\060\202\002\012\002\202\002\001\000\246\025
\125\240\243\306\340\037\214\235\041\120\327\301\276\053\133\265
\244\236\241\331\162\130\275\000\033\114\277\141\311\024\035\105
\202\253\306\035\200\326\075\353\020\234\072\257\155\044\370\274
\161\001\236\006\365\174\137\036\301\016\125\312\203\232\131\060
\256\031\313\060\110\225\355\042\067\215\364\112\232\162\146\076
\255\225\300\340\026\000\340\020\037\053\061\016\327\224\124\323
\102\063\240\064\035\036\105\166\335\117\312\030\067\354\205\025
\172\031\010\374\325\307\234\360\362\251\056\020\251\222\346\075
\130\075\251\026\150\074\057\165\041\030\177\050\167\245\341\141
\027\267\246\351\370\036\231\333\163\156\364\012\242\041\154\356
\332\252\205\222\146\257\366\172\153\202\332\272\042\010\065\017
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\317\102\361\065\372\152\356\176\053\045\314\072\021\344\155\257
\163\262\166\035\255\320\262\170\147\032\244\071\034\121\013\147
\126\203\375\070\135\015\316\335\360\273\053\226\037\336\173\062
\122\375\035\273\265\006\241\262\041\136\245\326\225\150\177\360
\231\236\334\105\010\076\347\322\011\015\065\224\335\200\116\123
\227\327\265\011\104\040\144\026\027\003\002\114\123\015\150\336
\325\252\162\115\223\155\202\016\333\234\275\317\264\363\134\135
\124\172\151\011\226\326\333\021\301\215\165\250\264\317\071\310
\316\074\274\044\174\346\142\312\341\275\175\247\275\127\145\013
\344\376\045\355\266\151\020\334\050\032\106\275\001\035\320\227
\265\341\230\073\300\067\144\326\075\224\356\013\341\365\050\256
\013\126\277\161\213\043\051\101\216\206\305\113\122\173\330\161
\253\037\212\025\246\073\203\132\327\130\001\121\306\114\101\331
\177\330\101\147\162\242\050\337\140\203\251\236\310\173\374\123
\163\162\131\365\223\172\027\166\016\316\367\345\134\331\013\125
\064\242\252\133\265\152\124\347\023\312\127\354\227\155\364\136
\006\057\105\213\130\324\043\026\222\344\026\156\050\143\131\060
\337\120\001\234\143\211\032\237\333\027\224\202\160\067\303\044
\236\232\107\326\132\312\116\250\151\211\162\037\221\154\333\176
\236\033\255\307\037\163\335\054\117\031\145\375\177\223\100\020
\056\322\360\355\074\236\056\050\076\151\046\063\305\173\002\003
\001\000\001\243\143\060\141\060\017\006\003\125\035\023\001\001
\377\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004
\026\004\024\332\273\056\252\260\014\270\210\046\121\164\134\155
\003\323\300\330\217\172\326\060\037\006\003\125\035\043\004\030
\060\026\200\024\332\273\056\252\260\014\270\210\046\121\164\134
\155\003\323\300\330\217\172\326\060\016\006\003\125\035\017\001
\001\377\004\004\003\002\001\206\060\015\006\011\052\206\110\206
\367\015\001\001\005\005\000\003\202\002\001\000\061\170\346\307
\265\337\270\224\100\311\161\304\250\065\354\106\035\302\205\363
\050\130\206\260\013\374\216\262\071\217\104\125\253\144\204\134
\151\251\320\232\070\074\372\345\037\065\345\104\343\200\171\224
\150\244\273\304\237\075\341\064\315\060\106\213\124\053\225\245
\357\367\077\231\204\375\065\346\317\061\306\334\152\277\247\327
\043\010\341\230\136\303\132\010\166\251\246\257\167\057\267\140
\275\104\106\152\357\227\377\163\225\301\216\350\223\373\375\061
\267\354\127\021\021\105\233\060\361\032\210\071\301\117\074\247
\000\325\307\374\253\155\200\042\160\245\014\340\135\004\051\002
\373\313\240\221\321\174\326\303\176\120\325\235\130\276\101\070
\353\271\165\074\025\331\233\311\112\203\131\300\332\123\375\063
\273\066\030\233\205\017\025\335\356\055\254\166\223\271\331\001
\215\110\020\250\373\365\070\206\361\333\012\306\275\204\243\043
\101\336\326\167\157\205\324\205\034\120\340\256\121\212\272\215
\076\166\342\271\312\047\362\137\237\357\156\131\015\006\330\053
\027\244\322\174\153\273\137\024\032\110\217\032\114\347\263\107
\034\216\114\105\053\040\356\110\337\347\335\011\216\030\250\332
\100\215\222\046\021\123\141\163\135\353\275\347\304\115\051\067
\141\353\254\071\055\147\056\026\326\365\000\203\205\241\314\177

\166\304\175\344\267\113\146\357\003\105\140\151\266\014\122\226
\222\204\136\246\243\265\244\076\053\331\314\330\033\107\252\362
\104\332\117\371\003\350\360\024\313\077\363\203\336\320\301\124
\343\267\350\012\067\115\213\040\131\003\060\031\241\054\310\275
\021\037\337\256\311\112\305\363\047\146\146\206\254\150\221\377
\331\346\123\034\017\213\134\151\145\012\046\310\036\064\303\135
\121\173\327\251\234\006\241\066\335\325\211\224\274\331\344\055
\014\136\011\154\010\227\174\243\075\174\223\377\077\241\024\247
\317\265\135\353\333\333\034\304\166\337\210\271\275\105\005\225
\033\256\374\106\152\114\257\110\343\316\256\017\322\176\353\346
\154\234\117\201\152\172\144\254\273\076\325\347\313\166\056\305
\247\110\301\134\220\017\313\310\077\372\346\062\341\215\033\157
\244\346\216\330\371\051\110\212\316\163\376\054
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "GeoTrust Universal CA"
Issuer: CN=GeoTrust Universal CA,O=GeoTrust Inc.,C=US
Serial Number: 1 (0x1)
Subject: CN=GeoTrust Universal CA,O=GeoTrust Inc.,C=US
Not Valid Before: Thu Mar 04 05:00:00 2004
Not Valid After: Sun Mar 04 05:00:00 2029
Fingerprint (MD5): 92:65:58:8b:a2:1a:31:72:73:68:5c:b4:a5:7a:07:48
Fingerprint (SHA1): e6:21:f3:35:43:79:05:9a:4b:68:30:9d:8a:2f:74:22:15:87:ec:79
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE
 CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Universal CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\346\041\363\065\103\171\005\232\113\150\060\235\212\057\164\042
\025\207\354\171
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\222\145\130\213\242\032\061\162\163\150\134\264\245\172\007\110
END
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165
\163\164\040\111\156\143\056\061\036\060\034\006\003\125\004\003
\023\025\107\145\157\124\162\165\163\164\040\125\156\151\166\145
\162\163\141\154\040\103\101
END

```
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "GeoTrust Universal
 CA 2"
# Issuer: CN=GeoTrust Universal CA 2,O=GeoTrust Inc.,C=US
# Serial Number: 1 (0x1)
# Subject: CN=GeoTrust Universal CA 2,O=GeoTrust Inc.,C=US
# Not Valid Before: Thu Mar 04 05:00:00 2004
# Not Valid After: Sun Mar 04 05:00:00 2029
# Fingerprint (MD5): 34:fc:b8:d0:36:db:9e:14:b3:c2:f2:db:8f:e4:94:c7
# Fingerprint (SHA1): 37:9a:19:7b:41:85:45:35:0c:a6:03:69:f3:3c:2e:af:47:4f:20:79
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Universal CA 2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165
\163\164\040\111\156\143\056\061\040\060\036\006\003\125\004\003
\023\027\107\145\157\124\162\165\163\164\040\125\156\151\166\145
\162\163\141\154\040\103\101\040\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165
\163\164\040\111\156\143\056\061\040\060\036\006\003\125\004\003
\023\027\107\145\157\124\162\165\163\164\040\125\156\151\166\145
\162\163\141\154\040\103\101\040\062
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\154\060\202\003\124\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061\026
\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165\163
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\164\040\111\156\143\056\061\040\060\036\006\003\125\004\003\023
\027\107\145\157\124\162\165\163\164\040\125\156\151\166\145\162
\163\141\154\040\103\101\040\062\060\036\027\015\060\064\060\063
\060\064\060\065\060\060\060\060\132\027\015\062\071\060\063\060
\064\060\065\060\060\060\060\132\060\107\061\013\060\011\006\003
\125\004\006\023\002\125\123\061\026\060\024\006\003\125\004\012
\023\015\107\145\157\124\162\165\163\164\040\111\156\143\056\061
\040\060\036\006\003\125\004\003\023\027\107\145\157\124\162\165
\163\164\040\125\156\151\166\145\162\163\141\154\040\103\101\040
\062\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001
\001\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002
\001\000\263\124\122\301\311\076\362\331\334\261\123\032\131\051
\347\261\303\105\050\345\327\321\355\305\305\113\241\252\164\173
\127\257\112\046\374\330\365\136\247\156\031\333\164\014\117\065
\133\062\013\001\343\333\353\172\167\065\352\252\132\340\326\350
\241\127\224\360\220\243\164\126\224\104\060\003\036\134\116\053
\205\046\164\202\172\014\166\240\157\115\316\101\055\240\025\006
\024\137\267\102\315\173\217\130\141\064\334\052\010\371\056\303
\001\246\042\104\034\114\007\202\346\133\316\320\112\174\004\323
\031\163\047\360\252\230\177\056\257\116\353\207\036\044\167\152
\135\266\350\133\105\272\334\303\241\005\157\126\216\217\020\046
\245\111\303\056\327\101\207\042\340\117\206\312\140\265\352\241
\143\300\001\227\020\171\275\000\074\022\155\053\025\261\254\113
\261\356\030\271\116\226\334\334\166\377\073\276\317\137\003\300
\374\073\350\276\106\033\377\332\100\302\122\367\376\343\072\367
\152\167\065\320\332\215\353\136\030\152\061\307\036\272\074\033
\050\326\153\124\306\252\133\327\242\054\033\031\314\242\002\366
\233\131\275\067\153\206\265\155\202\272\330\352\311\126\274\251
\066\130\375\076\031\363\355\014\046\251\223\070\370\117\301\135
\042\006\320\227\352\341\255\306\125\340\201\053\050\203\072\372
\364\173\041\121\000\276\122\070\316\315\146\171\250\364\201\126
\342\320\203\011\107\121\133\120\152\317\333\110\032\135\076\367
\313\366\145\367\154\361\225\370\002\073\062\126\202\071\172\133
\275\057\211\033\277\241\264\350\377\177\215\214\337\003\361\140
\116\130\021\114\353\243\077\020\053\203\232\001\163\331\224\155
\204\000\047\146\254\360\160\100\011\102\222\255\117\223\015\141
\011\121\044\330\222\325\013\224\141\262\207\262\355\377\232\065
\377\205\124\312\355\104\103\254\033\074\026\153\110\112\012\034
\100\210\037\222\302\013\000\005\377\362\310\002\112\244\252\251
\314\231\226\234\057\130\340\175\341\276\273\007\334\137\004\162
\134\061\064\303\354\137\055\340\075\144\220\042\346\321\354\270
\056\335\131\256\331\241\067\277\124\065\334\163\062\117\214\004
\036\063\262\311\106\361\330\134\310\125\120\311\150\275\250\272
\066\011\002\003\001\000\001\243\143\060\141\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003
\125\035\016\004\026\004\024\166\363\125\341\372\244\066\373\360
\237\134\142\161\355\074\364\107\070\020\053\060\037\006\003\125
\035\043\004\030\060\026\200\024\166\363\125\341\372\244\066\373

\360\237\134\142\161\355\074\364\107\070\020\053\060\016\006\003
\125\035\017\001\001\377\004\004\003\002\001\206\060\015\006\011
\052\206\110\206\367\015\001\001\005\005\000\003\202\002\001\000
\146\301\306\043\363\331\340\056\156\137\350\317\256\260\260\045
\115\053\370\073\130\233\100\044\067\132\313\253\026\111\377\263
\165\171\063\241\057\155\160\027\064\221\376\147\176\217\354\233
\345\136\202\251\125\037\057\334\324\121\007\022\376\254\026\076
\054\065\306\143\374\334\020\353\015\243\252\320\174\314\321\320
\057\121\056\304\024\132\336\350\031\341\076\306\314\244\051\347
\056\204\252\006\060\170\166\124\163\050\230\131\070\340\000\015
\142\323\102\175\041\237\256\075\072\214\325\372\167\015\030\053
\026\016\137\066\341\374\052\265\060\044\317\340\143\014\173\130
\032\376\231\272\102\022\261\221\364\174\150\342\310\350\257\054
\352\311\176\256\273\052\075\015\025\334\064\225\266\030\164\250
\152\017\307\264\364\023\304\344\133\355\012\322\244\227\114\052
\355\057\154\022\211\075\361\047\160\252\152\003\122\041\237\100
\250\147\120\362\363\132\037\337\337\043\366\334\170\116\346\230
\117\125\072\123\343\357\362\364\237\307\174\330\130\257\051\042
\227\270\340\275\221\056\260\166\354\127\021\317\357\051\104\363
\351\205\172\140\143\344\135\063\211\027\331\061\252\332\326\363
\030\065\162\317\207\053\057\143\043\204\135\204\214\077\127\240
\210\374\231\221\050\046\151\231\324\217\227\104\276\216\325\110
\261\244\050\051\361\025\264\341\345\236\335\370\217\246\157\046
\327\011\074\072\034\021\016\246\154\067\367\255\104\207\054\050
\307\330\164\202\263\320\157\112\127\273\065\051\047\240\213\350
\041\247\207\144\066\135\314\330\026\254\307\262\047\100\222\125
\070\050\215\121\156\335\024\147\123\154\161\134\046\204\115\165
\132\266\176\140\126\251\115\255\373\233\036\227\363\015\331\322
\227\124\167\332\075\022\267\340\036\357\010\006\254\371\205\207
\351\242\334\257\176\030\022\203\375\126\027\101\056\325\051\202
\175\231\364\061\366\161\251\317\054\001\047\245\005\271\252\262
\110\116\052\357\237\223\122\121\225\074\122\163\216\126\114\027
\100\300\011\050\344\213\152\110\123\333\354\315\125\125\361\306
\370\351\242\054\114\246\321\046\137\176\257\132\114\332\037\246
\362\034\054\176\256\002\026\322\126\320\057\127\123\107\350\222
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "GeoTrust Universal CA 2"
Issuer: CN=GeoTrust Universal CA 2,O=GeoTrust Inc.,C=US
Serial Number: 1 (0x1)
Subject: CN=GeoTrust Universal CA 2,O=GeoTrust Inc.,C=US
Not Valid Before: Thu Mar 04 05:00:00 2004
Not Valid After: Sun Mar 04 05:00:00 2029

```
# Fingerprint (MD5): 34:fc:b8:d0:36:db:9e:14:b3:c2:f2:db:8f:e4:94:c7
# Fingerprint (SHA1): 37:9a:19:7b:41:85:45:35:0c:a6:03:69:f3:3c:2e:af:47:4f:20:79
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Universal CA 2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\067\232\031\173\101\205\105\065\014\246\003\151\363\074\056\257
\107\117\040\171
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\064\374\270\320\066\333\236\024\263\302\362\333\217\344\224\307
END
CKA_ISSUER
 MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165
\163\164\040\111\156\143\056\061\040\060\036\006\003\125\004\003
\023\027\107\145\157\124\162\165\163\164\040\125\156\151\166\145
\162\163\141\154\040\103\101\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "QuoVadis Root Certification Authority"
# Issuer: CN=QuoVadis Root Certification Authority,OU=Root Certification Authority,O=QuoVadis
Limited,C=BM
# Serial Number:3a:b6:50:8b
# Subject: CN=QuoVadis Root Certification Authority,OU=Root Certification Authority,O=QuoVadis
Limited,C=BM
# Not Valid Before: Mon Mar 19 18:33:33
 2001
# Not Valid After: Wed Mar 17 18:33:33 2021
# Fingerprint (MD5): 27:de:36:fe:72:b7:00:03:00:9d:f4:f0:1e:6c:04:24
# Fingerprint (SHA1): de:3f:40:bd:50:93:d3:9b:6c:60:f6:da:bc:07:62:01:00:89:76:c9
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
```

CKA_SUBJECT MULTILINE_OCTAL
\060\177\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\045\060\043\006\003
\125\004\013\023\034\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171\061\056\060\054\006\003\125\004\003\023\045\121\165\157\126
\141\144\151\163\040\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\177\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\045\060\043\006\003
\125\004\013\023\034\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171\061\056\060\054\006\003\125\004\003\023\045\121\165\157\126
\141\144\151\163\040\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\072\266\120\213
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\320\060\202\004\270\240\003\002\001\002\002\004\072
\266\120\213\060\015\006\011\052\206\110\206\367\015\001\001\005
\005\000\060\177\061\013\060\011\006\003\125\004\006\023\002\102
\115\061\031\060\027\006\003\125\004\012\023\020\121\165\157\126
\141\144\151\163\040\114\151\155\151\164\145\144\061\045\060\043
\006\003\125\004\013\023\034\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171\061\056\060\054\006\003\125\004\003\023\045\121\165
\157\126\141\144\151\163\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171\060\036\027\015\060\061\060\063\061\071\061\070\063
\063\063\063\132\027\015\062\061\060\063\061\067\061\070\063\063
\063\063\132\060\177\061\013\060\011\006\003\125\004\006\023\002
\102\115\061\031\060\027\006\003\125\004\012\023\020\121\165\157
\126\141\144\151\163\040\114\151\155\151\164\145\144\061\045\060
\043\006\003\125\004\013\023\034\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171\061\056\060\054\006\003\125\004\003\023\045\121
\165\157\126\141\144\151\163\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157

\162\151\164\171\060\202\001\042\060\015\006\011\052\206\110\206
\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012
\002\202\001\001\000\277\141\265\225\123\272\127\374\372\362\147
\013\072\032\337\021\200\144\225\264\321\274\315\172\317\366\051
\226\056\044\124\100\044\070\367\032\205\334\130\114\313\244\047
\102\227\320\237\203\212\303\344\006\003\133\000\245\121\036\160
\004\164\342\301\324\072\253\327\255\073\007\030\005\216\375\203
\254\352\146\331\030\033\150\212\365\127\032\230\272\365\355\166
\075\174\331\336\224\152\073\113\027\301\325\217\275\145\070\072
\225\320\075\125\066\116\337\171\127\061\052\036\330\131\145\111
\130\040\230\176\253\137\176\237\351\326\115\354\203\164\251\307
\154\330\356\051\112\205\052\006\024\371\124\346\323\332\145\007
\213\143\067\022\327\320\354\303\173\040\101\104\243\355\313\240
\027\341\161\145\316\035\146\061\367\166\001\031\310\175\003\130
\266\225\111\035\246\022\046\350\306\014\166\340\343\146\313\352
\135\246\046\356\345\314\137\275\147\247\001\047\016\242\312\124
\305\261\172\225\035\161\036\112\051\212\003\334\152\105\301\244
\031\136\157\066\315\303\242\260\267\376\134\070\342\122\274\370
\104\103\346\220\273\002\003\001\000\001\243\202\002\122\060\202
\002\116\060\075\006\010\053\006\001\005\005\007\001\001\004\061
\060\057\060\055\006\010\053\006\001\005\005\007\060\001\206\041
\150\164\164\160\163\072\057\057\157\143\163\160\056\161\165\157
\166\141\144\151\163\157\146\146\163\150\157\162\145\056\143\157
\155\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001
\001\377\060\202\001\032\006\003\125\035\040\004\202\001\021\060
\202\001\015\060\202\001\011\006\011\053\006\001\004\001\276\130
\000\001\060\201\373\060\201\324\006\010\053\006\001\005\005\007
\002\002\060\201\307\032\201\304\122\145\154\151\141\156\143\145
\040\157\156\040\164\150\145\040\121\165\157\126\141\144\151\163
\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164
\145\040\142\171\040\141\156\171\040\160\141\162\164\171\040\141
\163\163\165\155\145\163\040\141\143\143\145\160\164\141\156\143
\145\040\157\146\040\164\150\145\040\164\150\145\156\040\141\160
\160\154\151\143\141\142\154\145\040\163\164\141\156\144\141\162
\144\040\164\145\162\155\163\040\141\156\144\040\143\157\156\144
\151\164\151\157\156\163\040\157\146\040\165\163\145\054\040\143
\145\162\164\151\146\151\143\141\164\151\157\156\040\160\162\141
\143\164\151\143\145\163\054\040\141\156\144\040\164\150\145\040
\121\165\157\126\141\144\151\163\040\103\145\162\164\151\146\151
\143\141\164\145\040\120\157\154\151\143\171\056\060\042\006\010
\053\006\001\005\005\007\002\001\026\026\150\164\164\160\072\057
\057\167\167\167\056\161\165\157\166\141\144\151\163\056\142\155
\060\035\006\003\125\035\016\004\026\004\024\213\113\155\355\323
\051\271\006\031\354\071\071\251\360\227\204\152\313\357\337\060
\201\256\006\003\125\035\043\004\201\246\060\201\243\200\024\213
\113\155\355\323\051\271\006\031\354\071\071\251\360\227\204\152
\313\357\337\241\201\204\244\201\201\060\177\061\013\060\011\006
\003\125\004\006\023\002\102\115\061\031\060\027\006\003\125\004

\012\023\020\121\165\157\126\141\144\151\163\040\114\151\155\151
\164\145\144\061\045\060\043\006\003\125\004\013\023\034\122\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\061\056\060\054\006\003
\125\004\003\023\045\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\202\004\072\266\120\213
\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\003
\202\001\001\000\212\324\024\265\376\364\232\222\247\031\324\244
\176\162\030\217\331\150\174\122\044\335\147\157\071\172\304\252
\136\075\342\130\260\115\160\230\204\141\350\033\343\151\030\016
\316\373\107\120\240\116\377\360\044\037\275\262\316\365\047\374
\354\057\123\252\163\173\003\075\164\156\346\026\236\353\245\056
\304\277\126\047\120\053\142\272\276\113\034\074\125\134\101\035
\044\276\202\040\107\135\325\104\176\172\026\150\337\175\115\121
\160\170\127\035\063\036\375\002\231\234\014\315\012\005\117\307
\273\216\244\165\372\112\155\261\200\216\011\126\271\234\032\140
\376\135\301\327\172\334\021\170\320\326\135\301\267\325\255\062
\231\003\072\212\314\124\045\071\061\201\173\023\042\121\272\106
\154\241\273\236\372\004\154\111\046\164\217\322\163\353\314\060
\242\346\352\131\042\207\370\227\365\016\375\352\314\222\244\026
\304\122\030\352\041\316\261\361\346\204\201\345\272\251\206\050
\362\103\132\135\022\235\254\036\331\250\345\012\152\247\177\240
\207\051\317\362\211\115\324\354\305\342\346\172\320\066\043\212
\112\164\066\371
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "QuoVadis Root Certification Authority"
Issuer: CN=QuoVadis Root Certification Authority,OU=Root
Certification Authority,O=QuoVadis Limited,C=BM
Serial Number:3a:b6:50:8b
Subject: CN=QuoVadis Root Certification Authority,OU=Root Certification Authority,O=QuoVadis
Limited,C=BM
Not Valid Before: Mon Mar 19 18:33:33 2001
Not Valid After: Wed Mar 17 18:33:33 2021
Fingerprint (MD5): 27:de:36:fe:72:b7:00:03:00:9d:f4:f0:1e:6c:04:24
Fingerprint (SHA1): de:3f:40:bd:50:93:d3:9b:6c:60:f6:da:bc:07:62:01:00:89:76:c9
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root Certification Authority"

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\336\077\100\275\120\223\323\233\154\140\366\332\274\007\142\001
\000\211\166\311
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\047\336\066\376\162\267\000\003\000\235\364\360\036\154\004\044
END
CKA_ISSUER MULTILINE_OCTAL
\060\177\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\045\060\043\006\003
\125\004\013\023\034\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171\061\056\060\054\006\003\125\004\003\023\045\121\165\157\126
\141\144\151\163\040\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\004\072\266\120\213
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Sonera Class2 CA"
# Issuer: CN=Sonera Class2 CA,O=Sonera,C=FI
# Serial Number: 29 (0x1d)
# Subject: CN=Sonera Class2 CA,O=Sonera,C=FI
# Not Valid Before: Fri Apr 06 07:29:40 2001
# Not Valid After: Tue Apr 06 07:29:40 2021
# Fingerprint (MD5): a3:ec:75:0f:2e:88:df:fa:48:01:4e:0b:5c:48:6f:fb
#
 Fingerprint (SHA1): 37:f7:6d:e6:07:7c:90:c5:b1:3e:93:1a:b7:41:10:b4:f2:e4:9a:27
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Sonera Class2 CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\106\111\061
\017\060\015\006\003\125\004\012\023\006\123\157\156\145\162\141
\061\031\060\027\006\003\125\004\003\023\020\123\157\156\145\162
\141\040\103\154\141\163\163\062\040\103\101
```

END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\106\111\061
\017\060\015\006\003\125\004\012\023\006\123\157\156\145\162\141
\061\031\060\027\006\003\125\004\003\023\020\123\157\156\145\162
\141\040\103\154\141\163\163\062\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\035
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\040\060\202\002\010\240\003\002\001\002\002\001\035
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\071\061\013\060\011\006\003\125\004\006\023\002\106\111\061\017
\060\015\006\003\125\004\012\023\006\123\157\156\145\162\141\061
\031\060\027\006\003\125\004\003\023\020\123\157\156\145\162\141
\040\103\154\141\163\163\062\040\103\101\060\036\027\015\060\061
\060\064\060\066\060\067\062\071\064\060\132\027\015\062\061\060
\064\060\066\060\067\062\071\064\060\132\060\071\061\013\060\011
\006\003\125\004\006\023\002\106\111\061\017\060\015\006\003\125
\004\012\023\006\123\157\156\145\162\141\061\031\060\027\006\003
\125\004\003\023\020\123\157\156\145\162\141\040\103\154\141\163
\163\062\040\103\101\060\202\001\042\060\015\006\011\052\206\110
\206\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001
\012\002\202\001\001\000\220\027\112\065\235\312\360\015\226\307
\104\372\026\067\374\110\275\275\177\200\055\065\073\341\157\250
\147\251\277\003\034\115\214\157\062\107\325\101\150\244\023\004
\301\065\014\232\204\103\374\134\035\377\211\263\350\027\030\315
\221\137\373\211\343\352\277\116\135\174\033\046\323\165\171\355
\346\204\343\127\345\255\051\304\364\072\050\347\245\173\204\066
\151\263\375\136\166\275\243\055\231\323\220\116\043\050\175\030
\143\361\124\073\046\235\166\133\227\102\262\377\256\360\116\354
\335\071\225\116\203\006\177\347\111\100\310\305\001\262\124\132
\146\035\075\374\371\351\074\012\236\201\270\160\360\001\213\344
\043\124\174\310\256\370\220\036\000\226\162\324\124\317\141\043
\274\352\373\235\002\225\321\266\271\161\072\151\010\077\017\264
\341\102\307\210\365\077\230\250\247\272\034\340\161\161\357\130
\127\201\120\172\134\153\164\106\016\203\003\230\303\216\250\156
\362\166\062\156\047\203\302\163\363\334\030\350\264\223\352\165
\104\153\004\140\040\161\127\207\235\363\276\240\220\043\075\212
\044\341\332\041\333\303\002\003\001\000\001\243\063\060\061\060
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377
\060\021\006\003\125\035\016\004\012\004\010\112\240\252\130\204
\323\136\074\060\013\006\003\125\035\017\004\004\003\002\001\006
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\003
\202\001\001\000\132\316\207\371\026\162\025\127\113\035\331\233
\347\242\046\060\354\223\147\337\326\055\322\064\257\367\070\245

\316\253\026\271\253\057\174\065\313\254\320\017\264\114\053\374
\200\357\153\214\221\137\066\166\367\333\263\033\031\352\364\262
\021\375\141\161\104\277\050\263\072\035\277\263\103\350\237\277
\334\061\010\161\260\235\215\326\064\107\062\220\306\145\044\367
\240\112\174\004\163\217\071\157\027\214\162\265\275\113\310\172
\370\173\203\303\050\116\234\011\352\147\077\262\147\004\033\303
\024\332\370\347\111\044\221\320\035\152\372\141\071\357\153\347
\041\165\006\007\330\022\264\041\040\160\102\161\201\332\074\232
\066\276\246\133\015\152\154\232\037\221\173\371\371\357\102\272
\116\116\236\314\014\215\224\334\331\105\234\136\354\102\120\143
\256\364\135\304\261\022\334\312\073\250\056\235\024\132\005\165
\267\354\327\143\342\272\065\266\004\010\221\350\332\235\234\366
\146\265\030\254\012\246\124\046\064\063\322\033\301\324\177\032
\072\216\013\252\062\156\333\374\117\045\237\331\062\307\226\132
\160\254\337\114
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Sonera Class2 CA"
Issuer: CN=Sonera Class2 CA,O=Sonera,C=FI
Serial Number: 29 (0x1d)
Subject: CN=Sonera Class2 CA,O=Sonera,C=FI
Not Valid Before: Fri Apr 06 07:29:40 2001
Not Valid After: Tue Apr 06 07:29:40 2021
Fingerprint (MD5): a3:ec:75:0f:2e:88:df:fa:48:01:4e:0b:5c:48:6f:fb
Fingerprint (SHA1): 37:f7:6d:e6:07:7c:90:c5:b1:3e:93:1a:b7:41:10:b4:f2:e4:9a:27
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Sonera Class2 CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\067\367\155\346\007\174\220\305\261\076\223\032\267\101\020\264
\362\344\232\047
END
CKA_CERT_MD5_HASH
 MULTILINE_OCTAL
\243\354\165\017\056\210\337\372\110\001\116\013\134\110\157\373
END
CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\106\111\061
\017\060\015\006\003\125\004\012\023\006\123\157\156\145\162\141
\061\031\060\027\006\003\125\004\003\023\020\123\157\156\145\162
\141\040\103\154\141\163\163\062\040\103\101

```
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\035
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "VeriSign Class 2 Public Primary Certification Authority - G3"
# Issuer: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU=(c) 1999 VeriSign\, Inc. - For
authorized use only,OU=VeriSign
 Trust Network,O=VeriSign\, Inc.,C=US
# Serial Number:61:70:cb:49:8c:5f:98:45:29:e7:b0:a6:d9:50:5b:7a
# Subject: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU=(c) 1999 VeriSign\, Inc. - For
authorized use only,OU=VeriSign Trust Network,O=VeriSign\, Inc.,C=US
# Not Valid Before: Fri Oct 01 00:00:00 1999
# Not Valid After: Wed Jul 16 23:59:59 2036
# Fingerprint (MD5): f8:be:c4:63:22:c9:a8:46:74:8b:b8:1d:1e:4a:2b:f6
# Fingerprint (SHA1): 61:ef:43:d7:7f:ca:d4:61:51:bc:98:e0:c3:59:12:af:9f:eb:63:11
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "VeriSign Class 2 Public Primary Certification Authority - G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\312\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\027\060\025\006\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\061\050\143\051\040\061\071\071\071\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040
\062\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\063
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\312\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\027\060\025\006\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125
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\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\061\050\143\051\040\061\071\071\071\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040
\062\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\063
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\141\160\313\111\214\137\230\105\051\347\260\246\331\120
\133\172
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CKA_VALUE MULTILINE_OCTAL
\060\202\004\031\060\202\003\001\002\020\141\160\313\111\214\137
\230\105\051\347\260\246\331\120\133\172\060\015\006\011\052\206
\110\206\367\015\001\001\005\005\000\060\201\312\061\013\060\011
\006\003\125\004\006\023\002\125\123\061\027\060\025\006\003\125
\004\012\023\016\126\145\162\151\123\151\147\156\054\040\111\156
\143\056\061\037\060\035\006\003\125\004\013\023\026\126\145\162
\151\123\151\147\156\040\124\162\165\163\164\040\116\145\164\167
\157\162\153\061\072\060\070\006\003\125\004\013\023\061\050\143
\051\040\061\071\071\071\040\126\145\162\151\123\151\147\156\054
\040\111\156\143\056\040\055\040\106\157\162\040\141\165\164\150
\157\162\151\172\145\144\040\165\163\145\040\157\156\154\171\061
\105\060\103\006\003\125\004\003\023\074\126\145\162\151\123\151
\147\156\040\103\154\141\163\163\040\062\040\120\165\142\154\151
\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171\040\055\040\107\063\060\036\027\015\071\071\061\060\060\061
\060\060\060\060\060\060\132\027\015\063\066\060\067\061\066\062
\063\065\071\065\071\132\060\201\312\061\013\060\011\006\003\125
\004\006\023\002\125\123\061\027\060\025\006\003\125\004\012\023
\016\126\145\162\151\123\151\147\156\054\040\111\156\143\056\061
\037\060\035\006\003\125\004\013\023\026\126\145\162\151\123\151
\147\156\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\072\060\070\006\003\125\004\013\023\061\050\143\051\040\061
\071\071\071\040\126\145\162\151\123\151\147\156\054\040\111\156
\143\056\040\055\040\106\157\162\040\141\165\164\150\157\162\151
\172\145\144\040\165\163\145\040\157\156\154\171\061\105\060\103
\006\003\125\004\003\023\074\126\145\162\151\123\151\147\156\040
\103\154\141\163\163\040\062\040\120\165\142\154\151\143\040\120
\162\151\155\141\162\171\040\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\055
\040\107\063\060\202\001\042\060\015\006\011\052\206\110\206\367

\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002
\202\001\001\000\257\012\015\302\325\054\333\147\271\055\345\224
\047\335\245\276\340\260\115\217\263\141\126\074\326\174\303\364
\315\076\206\313\242\210\342\341\330\244\151\305\265\342\277\301
\246\107\120\136\106\071\213\325\226\272\265\157\024\277\020\316
\047\023\236\005\107\233\061\172\023\330\037\331\323\002\067\213
\255\054\107\360\216\201\006\247\015\060\014\353\367\074\017\040
\035\334\162\106\356\245\002\310\133\303\311\126\151\114\305\030
\301\221\173\013\325\023\000\233\274\357\303\110\076\106\140\040
\205\052\325\220\266\315\213\240\314\062\335\267\375\100\125\262
\120\034\126\256\314\215\167\115\307\040\115\247\061\166\357\150
\222\212\220\036\010\201\126\262\255\151\243\122\320\313\034\304
\043\075\037\231\376\114\350\026\143\216\306\010\216\366\061\366
\322\372\345\166\335\265\034\222\243\111\315\315\001\315\150\315
\251\151\272\243\353\035\015\234\244\040\246\301\240\305\321\106
\114\027\155\322\254\146\077\226\214\340\204\324\066\377\042\131
\305\371\021\140\250\137\004\175\362\032\366\045\102\141\017\304
\112\270\076\211\002\003\001\000\001\060\015\006\011\052\206\110
\206\367\015\001\001\005\005\000\003\202\001\001\000\064\046\025
\074\300\215\115\103\111\035\275\351\041\222\327\146\234\267\336
\305\270\320\344\135\137\166\042\300\046\371\204\072\072\371\214
\265\373\354\140\361\350\316\004\260\310\335\247\003\217\060\363
\230\337\244\346\244\061\337\323\034\013\106\334\162\040\077\256
\356\005\074\244\063\077\013\071\254\160\170\163\113\231\053\337
\060\302\124\260\250\073\125\241\376\026\050\315\102\275\164\156
\200\333\047\104\247\316\104\135\324\033\220\230\015\036\102\224
\261\000\054\004\320\164\243\002\005\042\143\143\315\203\265\373
\301\155\142\153\151\165\375\135\160\101\271\365\277\174\337\276
\301\062\163\042\041\213\130\201\173\025\221\172\272\343\144\110
\260\177\373\066\045\332\225\320\361\044\024\027\335\030\200\153
\106\043\071\124\365\216\142\011\004\035\224\220\246\233\346\045
\342\102\105\252\270\220\255\276\010\217\251\013\102\030\224\317
\162\071\341\261\103\340\050\317\267\347\132\154\023\153\111\263
\377\343\030\174\211\213\063\135\254\063\327\247\371\332\072\125
\311\130\020\371\252\357\132\266\317\113\113\337\052
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER
 CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "VeriSign Class 2 Public Primary Certification Authority - G3"
Issuer: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU=(c) 1999 VeriSign\, Inc. - For authorized use only,OU=VeriSign Trust Network,O=VeriSign\, Inc.,C=US
Serial Number:61:70:cb:49:8c:5f:98:45:29:e7:b0:a6:d9:50:5b:7a
Subject: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU=(c) 1999 VeriSign\, Inc. - For

```
authorized use only,OU=VeriSign Trust Network,O=VeriSign\, Inc.,C=US
# Not Valid Before: Fri Oct 01 00:00:00 1999
# Not Valid After: Wed Jul 16 23:59:59 2036
# Fingerprint (MD5): f8:be:c4:63:22:c9:a8:46:74:8b:b8:1d:1e:4a:2b:f6
# Fingerprint (SHA1): 61:ef:43:d7:7f:ca:d4:61:51:bc:98:e0:c3:59:12:af:9f:eb:63:11
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL
 UTF8 "VeriSign Class 2 Public Primary Certification Authority - G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\141\357\103\327\177\312\324\141\121\274\230\340\303\131\022\257
\237\353\143\021
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\370\276\304\143\042\311\250\106\164\213\270\035\036\112\053\366
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\312\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\027\060\025\006\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\061\050\143\051\040\061\071\071\071\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040
\062\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\063
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\141\160\313\111\214\137\230\105\051\347\260\246\331\120
\133\172
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "VeriSign Class 3 Public Primary Certification Authority - G3"
# Issuer: CN=VeriSign Class 3 Public Primary Certification Authority - G3,OU=(c) 1999 VeriSign\, Inc. - For
authorized use only,OU=VeriSign Trust Network,O=VeriSign\, Inc.,C=US
# Serial Number:9b:7e:06:49:a3:3e:62:b9:d5:ee:90:48:71:29:ef:57
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Subject: CN=VeriSign Class 3 Public Primary Certification Authority - G3,OU=(c) 1999 VeriSign\, Inc. - For authorized use only,OU=VeriSign
 Trust Network,O=VeriSign\, Inc.,C=US
Not Valid Before: Fri Oct 01 00:00:00 1999
Not Valid After: Wed Jul 16 23:59:59 2036
Fingerprint (MD5): cd:68:b6:a7:c7:c4:ce:75:e0:1d:4f:57:44:61:92:09
Fingerprint (SHA1): 13:2d:0d:45:53:4b:69:97:cd:b2:d5:c3:39:e2:55:76:60:9b:5c:c6
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "VeriSign Class 3 Public Primary Certification Authority - G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\312\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\027\060\025\006\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\061\050\143\051\040\061\071\071\071\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040
\063\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\063
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
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\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\061\050\143\051\040\061\071\071\071\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040
\063\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\063
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\021\000\233\176\006\111\243\076\142\271\325\356\220\110\161

\051\357\127
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\032\060\202\003\002\002\021\000\233\176\006\111\243
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\206\110\206\367\015\001\001\005\005\000\060\201\312\061\013\060
\011\006\003\125\004\006\023\002\125\123\061\027\060\025\006\003
\125\004\012\023\016\126\145\162\151\123\151\147\156\054\040\111
\156\143\056\061\037\060\035\006\003\125\004\013\023\026\126\145
\162\151\123\151\147\156\040\124\162\165\163\164\040\116\145\164
\167\157\162\153\061\072\060\070\006\003\125\004\013\023\061\050
\143\051\040\061\071\071\071\040\126\145\162\151\123\151\147\156
\054\040\111\156\143\056\040\055\040\106\157\162\040\141\165\164
\150\157\162\151\172\145\144\040\165\163\145\040\157\156\154\171
\061\105\060\103\006\003\125\004\003\023\074\126\145\162\151\123
\151\147\156\040\103\154\141\163\163\040\063\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\063\060\036\027\015\071\071\061\060\060
\061\060\060\060\060\060\060\132\027\015\063\066\060\067\061\066
\062\063\065\071\065\071\132\060\201\312\061\013\060\011\006\003
\125\004\006\023\002\125\123\061\027\060\025\006\003\125\004\012
\023\016\126\145\162\151\123\151\147\156\054\040\111\156\143\056
\061\037\060\035\006\003\125\004\013\023\026\126\145\162\151\123
\151\147\156\040\124\162\165\163\164\040\116\145\164\167\157\162
\153\061\072\060\070\006\003\125\004\013\023\061\050\143\051\040
\061\071\071\071\040\126\145\162\151\123\151\147\156\054\040\111
\156\143\056\040\055\040\106\157\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\105\060
\103\006\003\125\004\003\023\074\126\145\162\151\123\151\147\156
\040\103\154\141\163\163\040\063\040\120\165\142\154\151\143\040
\120\162\151\155\141\162\171\040\103\145\162\164\151\146\151\143
\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040
\055\040\107\063\060\202\001\042\060\015\006\011\052\206\110\206
\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012
\002\202\001\001\000\313\272\234\122\374\170\037\032\036\157\033
\067\163\275\370\311\153\224\022\060\117\360\066\107\365\320\221
\012\365\027\310\245\141\301\026\100\115\373\212\141\220\345\166
\040\301\021\006\175\253\054\156\246\365\021\101\216\372\055\255
\052\141\131\244\147\046\114\320\350\274\122\133\160\040\004\130
\321\172\311\244\151\274\203\027\144\255\005\213\274\320\130\316
\215\214\365\353\360\102\111\013\235\227\047\147\062\156\341\256
\223\025\034\160\274\040\115\057\030\336\222\210\350\154\205\127
\021\032\351\176\343\046\021\124\242\105\226\125\203\312\060\211
\350\334\330\243\355\052\200\077\177\171\145\127\076\025\040\146
\010\057\225\223\277\252\107\057\250\106\227\360\022\342\376\302
\012\053\121\346\166\346\267\106\267\342\015\246\314\250\303\114
\131\125\211\346\350\123\134\034\352\235\360\142\026\013\247\311

\137\014\360\336\302\166\316\257\367\152\362\372\101\246\242\063
\024\311\345\172\143\323\236\142\067\325\205\145\236\016\346\123
\044\164\033\136\035\022\123\133\307\054\347\203\111\073\025\256
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\110\206\367\015\001\001\005\005\000\003\202\001\001\000\021\024
\226\301\253\222\010\367\077\057\311\262\376\344\132\237\144\336
\333\041\117\206\231\064\166\066\127\335\320\025\057\305\255\177
\025\037\067\142\163\076\324\347\137\316\027\003\333\065\372\053
\333\256\140\011\137\036\137\217\156\273\013\075\352\132\023\036
\014\140\157\265\300\265\043\042\056\007\013\313\251\164\313\107
\273\035\301\327\245\153\314\057\322\102\375\111\335\247\211\317
\123\272\332\000\132\050\277\202\337\370\272\023\035\120\206\202
\375\216\060\217\051\106\260\036\075\065\332\070\142\026\030\112
\255\346\266\121\154\336\257\142\353\001\320\036\044\376\172\217
\022\032\022\150\270\373\146\231\024\024\105\134\256\347\256\151
\027\201\053\132\067\311\136\052\364\306\342\241\134\124\233\246
\124\000\317\360\361\301\307\230\060\032\073\066\026\333\243\156
\352\375\255\262\302\332\357\002\107\023\212\300\361\263\061\255
\117\034\341\117\234\257\017\014\235\367\170\015\330\364\065\126
\200\332\267\155\027\217\235\036\201\144\341\376\305\105\272\255
\153\271\012\172\116\117\113\204\356\113\361\175\335\021
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "VeriSign Class 3 Public Primary Certification Authority - G3"
Issuer: CN=VeriSign Class 3 Public
Primary Certification Authority - G3,OU=(c) 1999 VeriSign\, Inc. - For authorized use only,OU=VeriSign Trust Network,O=VeriSign\, Inc.,C=US
Serial Number:9b:7e:06:49:a3:3e:62:b9:d5:ee:90:48:71:29:ef:57
Subject: CN=VeriSign Class 3 Public Primary Certification Authority - G3,OU=(c) 1999 VeriSign\, Inc. - For authorized use only,OU=VeriSign Trust Network,O=VeriSign\, Inc.,C=US
Not Valid Before: Fri Oct 01 00:00:00 1999
Not Valid After: Wed Jul 16 23:59:59 2036
Fingerprint (MD5): cd:68:b6:a7:c7:c4:ce:75:e0:1d:4f:57:44:61:92:09
Fingerprint (SHA1): 13:2d:0d:45:53:4b:69:97:cd:b2:d5:c3:39:e2:55:76:60:9b:5c:c6
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "VeriSign Class 3 Public Primary Certification Authority - G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\023\055\015\105\123\113\151\227\315\262\325\303\071\342\125\166
\140\233\134\306
END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\315\150\266\247\307\304\316\165\340\035\117\127\104\141\222\011
END
CKA_ISSUER
 MULTILINE_OCTAL
\060\201\312\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\027\060\025\006\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\061\050\143\051\040\061\071\071\071\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040
\063\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\233\176\006\111\243\076\142\271\325\356\220\110\161
\051\357\127
END
CKA_TRUST_SERVER_AUTH
 CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "VeriSign, Inc."
# Issuer: OU=VeriSign Commercial Software Publishers CA,O=VeriSign\, Inc.,L=Internet
# Serial Number:03:c7:8f:37:db:92:28:df:3c:bb:1a:ad:82:fa:67:10
# Subject: OU=VeriSign Commercial Software Publishers CA,O=VeriSign\, Inc.,L=Internet
# Not Valid Before: Tue Apr 09 00:00:00 1996
# Not Valid After: Wed Jan 07 23:59:59 2004
# Fingerprint (MD5): dd:75:3f:56:bf:bb:c5:a1:7a:15:53:c6:90:f9:fb:cc
# Fingerprint (SHA1): 24:a4:0a:1f:57:36:43:a6:7f:0a:4b:07:49:f6:a2:2b:f2:8a:bb:6b
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "VeriSign, Inc."
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE
 CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\141\061\021\060\017\006\003\125\004\007\023\010\111\156\164
\145\162\156\145\164\061\027\060\025\006\003\125\004\012\023\016
```

\126\145\162\151\123\151\147\156\054\040\111\156\143\056\061\063
\060\061\006\003\125\004\013\023\052\126\145\162\151\123\151\147
\156\040\103\157\155\155\145\162\143\151\141\154\040\123\157\146
\164\167\141\162\145\040\120\165\142\154\151\163\150\145\162\163
\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\141\061\021\060\017\006\003\125\004\007\023\010\111\156\164
\145\162\156\145\164\061\027\060\025\006\003\125\004\012\023\016
\126\145\162\151\123\151\147\156\054\040\111\156\143\056\061\063
\060\061\006\003\125\004\013\023\052\126\145\162\151\123\151\147
\156\040\103\157\155\155\145\162\143\151\141\154\040\123\157\146
\164\167\141\162\145\040\120\165\142\154\151\163\150\145\162\163
\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\003\307\217\067\333\222\050\337\074\273\032\255\202\372
\147\020
END
CKA_VALUE
 MULTILINE_OCTAL
\060\202\002\100\060\202\001\251\002\020\003\307\217\067\333\222
\050\337\074\273\032\255\202\372\147\020\060\015\006\011\052\206
\110\206\367\015\001\001\002\005\000\060\141\061\021\060\017\006
\003\125\004\007\023\010\111\156\164\145\162\156\145\164\061\027
\060\025\006\003\125\004\012\023\016\126\145\162\151\123\151\147
\156\054\040\111\156\143\056\061\063\060\061\006\003\125\004\013
\023\052\126\145\162\151\123\151\147\156\040\103\157\155\155\145
\162\143\151\141\154\040\123\157\146\164\167\141\162\145\040\120
\165\142\154\151\163\150\145\162\163\040\103\101\060\036\027\015
\071\066\060\064\060\071\060\060\060\060\060\060\132\027\015\060
\064\060\061\060\067\062\063\065\071\065\071\132\060\141\061\021
\060\017\006\003\125\004\007\023\010\111\156\164\145\162\156\145
\164\061\027\060\025\006\003\125\004\012\023\016\126\145\162\151
\123\151\147\156\054\040\111\156\143\056\061\063\060\061\006\003
\125\004\013\023\052\126\145\162\151\123\151\147\156\040\103\157
\155\155\145\162\143\151\141\154\040\123\157\146\164\167\141\162
\145\040\120\165\142\154\151\163\150\145\162\163\040\103\101\060
\201\237\060\015\006\011\052\206\110\206\367\015\001\001\001\005
\000\003\201\215\000\060\201\211\002\201\201\000\303\323\151\145
\122\001\224\124\253\050\306\142\030\263\124\125\305\104\207\105
\112\073\302\176\330\323\327\310\200\206\215\330\014\361\026\234
\314\153\251\051\262\217\166\163\222\310\305\142\246\074\355\036
\005\165\360\023\000\154\024\115\324\230\220\007\276\151\163\201
\270\142\116\061\036\321\374\311\014\353\175\220\277\256\264\107
\121\354\157\316\144\065\002\326\175\147\005\167\342\217\331\121
\327\373\227\031\274\076\327\167\201\306\103\335\362\335\337\312

\243\203\213\313\101\301\075\042\110\110\246\031\002\003\001\000
\001\060\015\006\011\052\206\110\206\367\015\001\001\002\005\000
\003\201\201\000\265\274\260\165\152\211\242\206\275\144\170\303
\247\062\165\162\021\252\046\002\027\140\060\114\343\110\064\031
\271\122\112\121\030\200\376\123\055\173\325\061\214\305\145\231
\101\101\057\362\256\143\172\350\163\231\025\220\032\037\172\213
\101\320\216\072\320\315\070\064\104\320\165\370\352\161\304\201
\031\070\027\065\112\256\305\076\062\346\041\270\005\300\223\341
\307\070\134\330\367\223\070\144\220\355\124\316\312\323\323\320
\137\357\004\233\336\002\202\335\210\051\261\303\117\245\315\161
\144\061\074\074
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "VeriSign, Inc."
Issuer: OU=VeriSign Commercial Software Publishers CA,O=VeriSign\, Inc.,L=Internet
Serial Number:03:c7:8f:37:db:92:28:df:3c:bb:1a:ad:82:fa:67:10
Subject: OU=VeriSign Commercial Software Publishers CA,O=VeriSign\, Inc.,L=Internet
Not Valid Before: Tue Apr 09 00:00:00 1996
Not Valid After: Wed Jan 07 23:59:59 2004
Fingerprint (MD5): dd:75:3f:56:bf:bb:c5:a1:7a:15:53:c6:90:f9:fb:cc
#
Fingerprint (SHA1): 24:a4:0a:1f:57:36:43:a6:7f:0a:4b:07:49:f6:a2:2b:f2:8a:bb:6b
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "VeriSign, Inc."
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\044\244\012\037\127\066\103\246\177\012\113\007\111\366\242\053
\362\212\273\153
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\335\165\077\126\277\273\305\241\172\025\123\306\220\371\373\314
END
CKA_ISSUER MULTILINE_OCTAL
\060\141\061\021\060\017\006\003\125\004\007\023\010\111\156\164
\145\162\156\145\164\061\027\060\025\006\003\125\004\012\023\016
\126\145\162\151\123\151\147\156\054\040\111\156\143\056\061\063
\060\061\006\003\125\004\013\023\052\126\145\162\151\123\151\147
\156\040\103\157\155\155\145\162\143\151\141\154\040\123\157\146
\164\167\141\162\145\040\120\165\142\154\151\163\150\145\162\163
\040\103\101
END

```
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\003\307\217\067\333\222\050\337\074\273\032\255\202\372
\147\020
END
CKA_TRUST_SERVER_AUTH
 CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Microsoft Root Authority"
# Issuer: CN=Microsoft Root Authority,OU=Microsoft Corporation,OU=Copyright (c) 1997 Microsoft Corp.
# Serial Number:c1:00:8b:3c:3c:88:11:d1:3e:f6:63:ec:df:40
# Subject: CN=Microsoft Root Authority,OU=Microsoft Corporation,OU=Copyright (c) 1997 Microsoft Corp.
# Not Valid Before: Fri Jan 10 07:00:00 1997
# Not Valid After: Thu Dec 31 07:00:00 2020
# Fingerprint (MD5): 2a:95:4e:ca:79:b2:87:45:73:d9:2d:90:ba:f9:9f:b6
# Fingerprint (SHA1): a4:34:89:15:9a:52:0f:0d:93:d0:32:cc:af:37:e7:fe:20:a8:b4:19
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft Root Authority"
CKA_CERTIFICATE_TYPE
 CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\160\061\053\060\051\006\003\125\004\013\023\042\103\157\160
\171\162\151\147\150\164\040\050\143\051\040\061\071\071\067\040
\115\151\143\162\157\163\157\146\164\040\103\157\162\160\056\061
\036\060\034\006\003\125\004\013\023\025\115\151\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\041\060\037\006\003\125\004\003\023\030\115\151\143\162\157\163
\157\146\164\040\122\157\157\164\040\101\165\164\150\157\162\151
\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\160\061\053\060\051\006\003\125\004\013\023\042\103\157\160
\171\162\151\147\150\164\040\050\143\051\040\061\071\071\067\040
\115\151\143\162\157\163\157\146\164\040\103\157\162\160\056\061
\036\060\034\006\003\125\004\013\023\025\115\151\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\041\060\037\006\003\125\004\003\023\030\115\151\143\162\157\163
\157\146\164\040\122\157\157\164\040\101\165\164\150\157\162\151
\164\171
END
CKA_SERIAL_NUMBER
```

MULTILINE_OCTAL
\002\017\000\301\000\213\074\074\210\021\321\076\366\143\354\337
\100
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\022\060\202\002\372\240\003\002\001\002\002\017\000
\301\000\213\074\074\210\021\321\076\366\143\354\337\100\060\015
\006\011\052\206\110\206\367\015\001\001\004\005\000\060\160\061
\053\060\051\006\003\125\004\013\023\042\103\157\160\171\162\151
\147\150\164\040\050\143\051\040\061\071\071\067\040\115\151\143
\162\157\163\157\146\164\040\103\157\162\160\056\061\036\060\034
\006\003\125\004\013\023\025\115\151\143\162\157\163\157\146\164
\040\103\157\162\160\157\162\141\164\151\157\156\061\041\060\037
\006\003\125\004\003\023\030\115\151\143\162\157\163\157\146\164
\040\122\157\157\164\040\101\165\164\150\157\162\151\164\171\060
\036\027\015\071\067\060\061\061\060\060\067\060\060\060\060\132
\027\015\062\060\061\062\063\061\060\067\060\060\060\060\132\060
\160\061\053\060\051\006\003\125\004\013\023\042\103\157\160\171
\162\151\147\150\164\040\050\143\051\040\061\071\071\067\040\115
\151\143\162\157\163\157\146\164\040\103\157\162\160\056\061\036
\060\034\006\003\125\004\013\023\025\115\151\143\162\157\163\157
\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061\041
\060\037\006\003\125\004\003\023\030\115\151\143\162\157\163\157
\146\164\040\122\157\157\164\040\101\165\164\150\157\162\151\164
\171\060\202\001\042\060\015\006\011\052\206\110\206\367\015\001
\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202\001
\001\000\251\002\275\301\160\346\073\362\116\033\050\237\227\170
\136\060\352\242\251\215\045\137\370\376\225\114\243\267\376\235
\242\040\076\174\121\242\233\242\217\140\062\153\321\102\144\171
\356\254\166\311\124\332\362\353\234\206\034\217\237\204\146\263
\305\153\172\142\043\326\035\074\336\017\001\222\350\226\304\277
\055\146\232\232\150\046\231\320\072\054\277\014\265\130\046\301
\106\347\012\076\070\226\054\251\050\071\250\354\111\203\102\343
\204\017\273\232\154\125\141\254\202\174\241\140\055\167\114\351
\231\264\144\073\232\120\034\061\010\044\024\237\251\347\221\053
\030\346\075\230\143\024\140\130\005\145\237\035\067\122\207\367
\247\357\224\002\306\033\323\277\125\105\263\211\200\277\072\354
\124\224\116\256\375\247\172\155\164\116\257\030\314\226\011\050
\041\000\127\220\140\151\067\273\113\022\007\074\126\377\133\373
\244\146\012\010\246\322\201\126\127\357\266\073\136\026\201\167
\004\332\366\276\256\200\225\376\260\315\177\326\247\032\162\134
\074\312\274\360\010\243\042\060\263\006\205\311\263\040\167\023
\205\337\002\003\001\000\001\243\201\250\060\201\245\060\201\242
\006\003\125\035\001\004\201\232\060\201\227\200\020\133\320\160
\357\151\162\236\043\121\176\024\262\115\216\377\313\241\162\060
\160\061\053\060\051\006\003\125\004\013\023\042\103\157\160\171
\162\151\147\150\164\040\050\143\051\040\061\071\071\067\040\115
\151\143\162\157\163\157\146\164\040\103\157\162\160\056\061\036

\060\034\006\003\125\004\013\023\025\115\151\143\162\157\163\157
\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061\041
\060\037\006\003\125\004\003\023\030\115\151\143\162\157\163\157
\146\164\040\122\157\157\164\040\101\165\164\150\157\162\151\164
\171\202\017\000\301\000\213\074\074\210\021\321\076\366\143\354
\337\100\060\015\006\011\052\206\110\206\367\015\001\001\004\005
\000\003\202\001\001\000\225\350\013\300\215\363\227\030\065\355
\270\001\044\330\167\021\363\134\140\062\237\236\013\313\076\005
\221\210\217\311\072\346\041\362\360\127\223\054\265\240\107\310
\142\357\374\327\314\073\073\132\251\066\124\151\376\044\155\077
\311\314\252\336\005\174\335\061\215\075\237\020\160\152\273\376
\022\117\030\151\300\374\320\103\343\021\132\040\117\352\142\173
\257\252\031\310\053\067\045\055\276\145\241\022\212\045\017\143
\243\367\124\034\371\041\311\326\025\363\122\254\156\103\062\007
\375\202\027\370\345\147\154\015\121\366\275\361\122\307\275\347
\304\060\374\040\061\011\210\035\225\051\032\115\325\035\002\245
\361\200\340\003\264\133\364\261\335\310\127\356\145\111\307\122
\124\266\264\003\050\022\377\220\326\360\010\217\176\270\227\305
\253\067\054\344\172\344\250\167\343\166\240\000\320\152\077\301
\322\066\212\340\101\022\250\065\152\033\152\333\065\341\324\034
\004\344\250\105\004\310\132\063\070\156\115\034\015\142\267\012
\242\214\323\325\124\077\106\315\034\125\246\160\333\022\072\207
\223\165\237\247\322\240
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Microsoft Root Authority"
Issuer: CN=Microsoft Root Authority,OU=Microsoft Corporation,OU=Copyright (c) 1997 Microsoft Corp.
Serial Number:c1:00:8b:3c:3c:88:11:d1:3e:f6:63:ec:df:40
Subject: CN=Microsoft Root Authority,OU=Microsoft Corporation,OU=Copyright (c) 1997 Microsoft Corp.
Not Valid Before: Fri Jan 10 07:00:00 1997
Not Valid After:
 Thu Dec 31 07:00:00 2020
Fingerprint (MD5): 2a:95:4e:ca:79:b2:87:45:73:d9:2d:90:ba:f9:9f:b6
Fingerprint (SHA1): a4:34:89:15:9a:52:0f:0d:93:d0:32:cc:af:37:e7:fe:20:a8:b4:19
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft Root Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\244\064\211\025\232\122\017\015\223\320\062\314\257\067\347\376
\040\250\264\031
END

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\052\225\116\312\171\262\207\105\163\331\055\220\272\371\237\266
END
CKA_ISSUER MULTILINE_OCTAL
\060\160\061\053\060\051\006\003\125\004\013\023\042\103\157\160
\171\162\151\147\150\164\040\050\143\051\040\061\071\071\067\040
\115\151\143\162\157\163\157\146\164\040\103\157\162\160\056\061
\036\060\034\006\003\125\004\013\023\025\115\151\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\041\060\037\006\003\125\004\003\023\030\115\151\143\162\157\163
\157\146\164\040\122\157\157\164\040\101\165\164\150\157\162\151
\164\171
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\017\000\301\000\213\074\074\210\021\321\076\366\143\354\337
\100
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Microsoft Root Certificate Authority"
# Issuer: CN=Microsoft Root Certificate Authority,DC=microsoft,DC=com
# Serial Number:79:ad:16:a1:4a:a0:a5:ad:4c:73:58:f4:07:13:2e:65
# Subject: CN=Microsoft Root Certificate Authority,DC=microsoft,DC=com
# Not Valid Before: Wed May 09 23:19:22 2001
# Not Valid After: Sun May 09 23:28:13 2021
# Fingerprint (MD5): e1:c0:7e:a0:aa:bb:d4:b7:7b:84:c2:28:11:78:08:a7
# Fingerprint (SHA1): cd:d4:ee:ae:60:00:ac:7f:40:c3:80:2c:17:1e:30:14:80:30:c0:72
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL
 CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft Root Certificate Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\137\061\023\060\021\006\012\011\222\046\211\223\362\054\144
\001\031\026\003\143\157\155\061\031\060\027\006\012\011\222\046
\211\223\362\054\144\001\031\026\011\155\151\143\162\157\163\157
\146\164\061\055\060\053\006\003\125\004\003\023\044\115\151\143
\162\157\163\157\146\164\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164
\171
END
```

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\137\061\023\060\021\006\012\011\222\046\211\223\362\054\144
\001\031\026\003\143\157\155\061\031\060\027\006\012\011\222\046
\211\223\362\054\144\001\031\026\011\155\151\143\162\157\163\157
\146\164\061\055\060\053\006\003\125\004\003\023\044\115\151\143
\162\157\163\157\146\164\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164
\171
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\171\255\026\241\112\240\245\255\114\163\130\364\007\023
\056\145
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\231\060\202\003\201\240\003\002\001\002\002\020\171
\255\026\241\112\240\245\255\114\163\130\364\007\023\056\145\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\137
\061\023\060\021\006\012\011\222\046\211\223\362\054\144\001\031
\026\003\143\157\155\061\031\060\027\006\012\011\222\046\211\223
\362\054\144\001\031\026\011\155\151\143\162\157\163\157\146\164
\061\055\060\053\006\003\125\004\003\023\044\115\151\143\162\157
\163\157\146\164\040\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\145\040\101\165\164\150\157\162\151\164\171\060
\036\027\015\060\061\060\065\060\071\062\063\061\071\062\062\132
\027\015\062\061\060\065\060\071\062\063\062\070\061\063\132\060
\137\061\023\060\021\006\012\011\222\046\211\223\362\054\144\001
\031\026\003\143\157\155\061\031\060\027\006\012\011\222\046\211
\223\362\054\144\001\031\026\011\155\151\143\162\157\163\157\146
\164\061\055\060\053\006\003\125\004\003\023\044\115\151\143\162
\157\163\157\146\164\040\122\157\157\164\040\103\145\162\164\151
\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164\171
\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001
\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001
\000\363\135\372\200\147\324\132\247\251\014\054\220\040\320\065
\010\074\165\204\315\267\007\211\234\211\332\336\316\303\140\372
\221\150\132\236\224\161\051\030\166\174\302\340\310\045\166\224
\016\130\372\004\064\066\346\337\257\367\200\272\351\130\013\053
\223\345\235\005\343\167\042\221\367\064\144\074\042\221\035\136
\341\011\220\274\024\376\374\165\130\031\341\171\267\007\222\243
\256\210\131\010\330\237\007\312\003\130\374\150\051\155\062\327
\322\250\313\113\374\341\013\110\062\117\346\353\270\255\117\344
\134\157\023\224\231\333\225\325\165\333\250\032\267\224\221\264
\167\133\365\110\014\217\152\171\175\024\160\004\175\155\257\220
\365\332\160\330\107\267\277\233\057\154\347\005\267\341\021\140
\254\171\221\024\174\305\326\246\344\341\176\325\303\176\345\222
\322\074\000\265\066\202\336\171\341\155\363\265\156\370\237\063

\311\313\122\175\163\230\066\333\213\241\153\242\225\227\233\243
\336\302\115\046\377\006\226\147\045\006\310\347\254\344\356\022
\063\225\061\231\310\065\010\116\064\312\171\123\325\265\276\143
\062\131\100\066\300\245\116\004\115\075\333\133\007\063\344\130
\277\357\077\123\144\330\102\131\065\127\375\017\105\174\044\004
\115\236\326\070\164\021\227\042\220\316\150\104\164\222\157\325
\113\157\260\206\343\307\066\102\240\320\374\301\300\132\371\243
\141\271\060\107\161\226\012\026\260\221\300\102\225\357\020\177
\050\152\343\052\037\261\344\315\003\077\167\161\004\307\040\374
\111\017\035\105\210\244\327\313\176\210\255\216\055\354\105\333
\304\121\004\311\052\374\354\206\236\232\021\227\133\336\316\123
\210\346\342\267\375\254\225\302\050\100\333\357\004\220\337\201
\063\071\331\262\105\245\043\207\006\245\125\211\061\273\006\055
\140\016\101\030\175\037\056\265\227\313\021\353\025\325\044\245
\224\357\025\024\211\375\113\163\372\062\133\374\321\063\000\371
\131\142\160\007\062\352\056\253\100\055\173\312\335\041\147\033
\060\231\217\026\252\043\250\101\321\260\156\021\233\066\304\336
\100\164\234\341\130\145\301\140\036\172\133\070\310\217\273\004
\046\174\324\026\100\345\266\153\154\252\206\375\000\277\316\301
\065\002\003\001\000\001\243\121\060\117\060\013\006\003\125\035
\017\004\004\003\002\001\306\060\017\006\003\125\035\023\001\001
\377\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004
\026\004\024\016\254\202\140\100\126\047\227\345\045\023\374\052
\341\012\123\225\131\344\244\060\020\006\011\053\006\001\004\001
\202\067\025\001\004\003\002\001\000\060\015\006\011\052\206\110
\206\367\015\001\001\005\005\000\003\202\002\001\000\305\021\115
\003\072\140\335\135\122\021\167\217\262\273\066\310\262\005\277
\264\267\250\330\040\235\134\023\003\266\034\042\372\006\023\065
\266\310\143\324\232\107\157\046\127\322\125\361\004\261\046\137
\326\251\120\150\240\274\322\270\156\314\303\351\254\337\031\315
\170\254\131\164\254\146\064\066\304\033\076\154\070\114\063\016
\060\022\015\243\046\376\121\123\000\377\257\132\116\204\015\017
\037\344\155\005\056\116\205\113\215\154\063\157\124\322\144\253
\277\120\257\175\172\071\240\067\355\143\003\017\374\023\006\316
\026\066\324\124\073\225\033\121\142\072\345\115\027\324\005\071
\222\232\047\250\133\252\275\354\273\276\343\040\211\140\161\154
\126\263\245\023\320\155\016\043\176\225\003\355\150\075\362\330
\143\270\153\115\266\350\060\265\341\312\224\113\367\242\252\135
\231\060\262\075\247\302\121\154\050\040\001\044\047\053\113\000
\267\235\021\153\160\276\262\020\202\274\014\233\150\320\215\073
\044\207\252\231\050\162\235\063\137\131\220\275\365\336\223\236
\072\142\132\064\071\342\210\125\035\271\006\260\301\211\153\055
\327\151\303\031\022\066\204\320\311\240\332\377\057\151\170\262
\345\172\332\353\327\014\300\367\275\143\027\270\071\023\070\242
\066\133\173\362\205\126\152\035\144\142\301\070\342\252\277\121
\146\242\224\365\022\234\146\042\020\153\362\267\060\222\055\362
\051\360\075\073\024\103\150\242\361\234\051\067\313\316\070\040
\045\155\174\147\363\176\044\022\044\003\010\201\107\354\245\236

\227\365\030\327\317\273\325\357\166\226\357\375\316\333\126\235
\225\240\102\371\227\130\341\327\061\042\323\137\131\346\076\156
\042\000\352\103\204\266\045\333\331\363\010\126\150\300\144\153
\035\174\354\266\223\242\142\127\156\056\330\347\130\217\304\061
\111\046\335\336\051\065\207\365\060\161\160\133\024\074\151\275
\211\022\175\353\056\243\376\330\177\236\202\132\122\012\053\301
\103\053\331\060\210\237\310\020\373\211\215\346\241\205\165\063
\176\154\236\333\163\023\144\142\151\245\057\175\312\226\155\237
\370\004\115\060\222\075\156\041\024\041\311\075\340\303\375\212
\153\235\112\375\321\241\235\231\103\167\077\260\332
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Microsoft Root Certificate Authority"
Issuer: CN=Microsoft Root Certificate Authority,DC=microsoft,DC=com
Serial Number:79:ad:16:a1:4a:a0:a5:ad:4c:73:58:f4:07:13:2e:65
Subject: CN=Microsoft Root Certificate Authority,DC=microsoft,DC=com
Not Valid Before: Wed May 09 23:19:22 2001
Not Valid After: Sun May 09 23:28:13 2021
Fingerprint (MD5): e1:c0:7e:a0:aa:bb:d4:b7:7b:84:c2:28:11:78:08:a7
Fingerprint (SHA1): cd:d4:ee:ae:60:00:ac:7f:40:c3:80:2c:17:1e:30:14:80:30:c0:72
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft Root Certificate Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\315\324\356\256\140\000\254\177\100\303\200\054\027\036\060\024
\200\060\300\162
END
CKA_CERT_MD5_HASH
 MULTILINE_OCTAL
\341\300\176\240\252\273\324\267\173\204\302\050\021\170\010\247
END
CKA_ISSUER MULTILINE_OCTAL
\060\137\061\023\060\021\006\012\011\222\046\211\223\362\054\144
\001\031\026\003\143\157\155\061\031\060\027\006\012\011\222\046
\211\223\362\054\144\001\031\026\011\155\151\143\162\157\163\157
\146\164\061\055\060\053\006\003\125\004\003\023\044\115\151\143
\162\157\163\157\146\164\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164
\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL

```
\002\020\171\255\026\241\112\240\245\255\114\163\130\364\007\023
\056\145
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Microsoft Root Certificate Authority 2010"
# Issuer: CN=Microsoft Root
 Certificate Authority 2010,O=Microsoft Corporation,L=Redmond,ST=Washington,C=US
# Serial Number:28:cc:3a:25:bf:ba:44:ac:44:9a:9b:58:6b:43:39:aa
# Subject: CN=Microsoft Root Certificate Authority 2010,O=Microsoft
Corporation,L=Redmond,ST=Washington,C=US
# Not Valid Before: Wed Jun 23 21:57:24 2010
# Not Valid After: Sat Jun 23 22:04:01 2035
# Fingerprint (MD5): a2:66:bb:7d:cc:38:a5:62:63:13:61:bb:f6:1d:d1:1b
# Fingerprint (SHA1): 3b:1e:fd:3a:66:ea:28:b1:66:97:39:47:03:a7:2c:a3:40:a0:5b:d5
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft Root Certificate Authority 2010"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\010\023\012\127\141\163\150\151
\156\147\164\157\156\061\020\060\016\006\003\125\004\007\023\007
\122\145\144\155\157\156\144\061\036\060\034\006\003\125\004\012
\023\025\115\151\143\162\157\163\157\146\164\040\103\157\162\160
\157\162\141\164\151\157\156\061\062\060\060\006\003\125\004\003
\023\051\115\151\143\162\157\163\157\146\164\040\122\157\157\164
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\040\062\060\061\060
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\010\023\012\127\141\163\150\151
\156\147\164\157\156\061\020\060\016\006\003\125\004\007\023\007
\122\145\144\155\157\156\144\061\036\060\034\006\003\125\004\012
\023\025\115\151\143\162\157\163\157\146\164\040\103\157\162\160
\157\162\141\164\151\157\156\061\062\060\060\006\003\125\004\003
\023\051\115\151\143\162\157\163\157\146\164\040\122\157\157\164
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\040\062\060\061\060
```

END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\050\314\072\045\277\272\104\254\104\232\233\130\153\103
\071\252
END
CKA_VALUE
MULTILINE_OCTAL
\060\202\005\355\060\202\003\325\240\003\002\001\002\002\020\050
\314\072\045\277\272\104\254\104\232\233\130\153\103\071\252\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\201
\210\061\013\060\011\006\003\125\004\006\023\002\125\123\061\023
\060\021\006\003\125\004\010\023\012\127\141\163\150\151\156\147
\164\157\156\061\020\060\016\006\003\125\004\007\023\007\122\145
\144\155\157\156\144\061\036\060\034\006\003\125\004\012\023\025
\115\151\143\162\157\163\157\146\164\040\103\157\162\160\157\162
\141\164\151\157\156\061\062\060\060\006\003\125\004\003\023\051
\115\151\143\162\157\163\157\146\164\040\122\157\157\164\040\103
\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157
\162\151\164\171\040\062\060\061\060\060\036\027\015\061\060\060
\066\062\063\062\061\065\067\062\064\132\027\015\063\065\060\066
\062\063\062\062\060\064\060\061\132\060\201\210\061\013\060\011
\006\003\125\004\006\023\002\125\123\061\023\060\021\006\003\125
\004\010\023\012\127\141\163\150\151\156\147\164\157\156\061\020
\060\016\006\003\125\004\007\023\007\122\145\144\155\157\156\144
\061\036\060\034\006\003\125\004\012\023\025\115\151\143\162\157
\163\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156
\061\062\060\060\006\003\125\004\003\023\051\115\151\143\162\157
\163\157\146\164\040\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\145\040\101\165\164\150\157\162\151\164\171\040
\062\060\061\060\060\202\002\042\060\015\006\011\052\206\110\206
\367\015\001\001\001\005\000\003\202\002\017\000\060\202\002\012
\002\202\002\001\000\271\010\236\050\344\344\354\006\116\120\150
\263\101\305\173\353\256\266\216\257\201\272\042\104\037\145\064
\151\114\276\160\100\027\362\026\173\342\171\375\206\355\015\071
\364\033\250\255\222\220\036\313\075\166\217\132\331\265\221\020
\056\074\005\215\212\155\044\124\347\037\355\126\255\203\264\120
\234\025\245\027\164\210\131\040\374\010\305\204\166\323\150\324
\157\050\170\316\134\270\363\120\220\104\377\343\143\137\276\241
\232\054\226\025\004\326\007\376\036\204\041\340\102\061\021\304
\050\066\224\317\120\244\142\236\311\326\253\161\000\262\133\014
\346\226\324\012\044\226\365\377\306\325\267\033\327\313\267\041
\142\257\022\334\241\135\067\343\032\373\032\106\230\300\233\300
\347\143\037\052\010\223\002\176\036\152\216\362\237\030\211\344
\042\205\242\261\204\127\100\377\365\016\330\157\234\355\342\105
\061\001\315\027\351\177\260\201\105\343\252\041\100\046\241\162
\252\247\117\074\001\005\176\356\203\130\261\136\006\143\231\142
\221\170\202\267\015\223\014\044\152\264\033\333\047\354\137\225
\004\077\223\112\060\365\227\030\263\247\371\031\247\223\063\035

\001\310\333\042\122\134\327\045\311\106\371\242\373\207\131\103
\276\233\142\261\215\055\206\104\032\106\254\170\141\176\060\011
\372\256\211\304\101\052\042\146\003\221\071\105\234\307\213\014
\250\312\015\057\373\122\352\014\367\143\063\043\235\376\260\037
\255\147\326\247\120\003\306\004\160\143\265\054\261\206\132\103
\267\373\256\371\156\051\156\041\041\101\046\006\214\311\303\356
\260\302\205\223\241\271\205\331\346\062\154\113\114\077\326\135
\243\345\265\235\167\303\234\300\125\267\164\000\343\270\070\253
\203\227\120\341\232\102\044\035\306\300\243\060\321\032\132\310
\122\064\367\163\361\307\030\037\063\255\172\354\313\101\140\363
\043\224\040\302\110\105\254\134\121\306\056\200\302\342\167\025
\275\205\207\355\066\235\226\221\356\000\265\243\160\354\237\343
\215\200\150\203\166\272\257\135\160\122\042\026\342\146\373\272
\263\305\302\367\076\057\167\246\312\336\301\246\306\110\114\303
\067\121\043\323\047\327\270\116\160\226\360\241\104\166\257\170
\317\232\341\146\023\002\003\001\000\001\243\121\060\117\060\013
\006\003\125\035\017\004\004\003\002\001\206\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003
\125\035\016\004\026\004\024\325\366\126\313\217\350\242\134\142
\150\321\075\224\220\133\327\316\232\030\304\060\020\006\011\053
\006\001\004\001\202\067\025\001\004\003\002\001\000\060\015\006
\011\052\206\110\206\367\015\001\001\013\005\000\003\202\002\001
\000\254\245\226\214\277\273\256\246\366\327\161\207\103\061\126
\210\375\034\062\161\133\065\267\324\360\221\362\257\067\342\024
\361\363\002\046\005\076\026\024\177\024\272\270\117\373\211\262
\262\347\324\011\314\155\271\133\073\144\145\160\146\267\362\261
\132\337\032\002\363\365\121\270\147\155\171\363\277\126\173\344
\204\271\053\036\233\100\234\046\064\371\107\030\230\151\330\034
\327\266\321\277\217\141\302\147\304\265\357\140\103\216\020\033
\066\111\344\040\312\255\247\301\261\047\145\011\370\315\365\133
\052\320\204\063\363\357\037\362\365\234\013\130\223\067\240\165
\240\336\162\336\154\165\052\146\042\365\214\006\060\126\237\100
\271\060\252\100\167\025\202\327\213\354\300\323\262\275\203\305
\167\014\036\256\257\031\123\240\115\171\161\237\017\257\060\316
\147\371\326\054\314\042\101\172\007\362\227\102\030\316\131\171
\020\125\336\157\020\344\270\332\203\146\100\026\011\150\043\133
\227\056\046\232\002\273\127\214\305\270\272\151\142\062\200\211
\236\241\375\300\222\174\173\053\063\031\204\052\143\305\000\150
\142\372\237\107\215\231\172\105\072\247\351\355\356\151\102\265
\363\201\233\107\126\020\173\374\160\066\204\030\163\352\357\371
\227\115\236\063\043\335\046\013\272\052\267\077\104\334\203\047
\377\275\141\131\053\021\267\312\117\333\305\213\014\034\061\256
\062\370\370\271\102\367\177\334\141\232\166\261\132\004\341\021
\075\146\105\267\030\161\276\311\044\205\326\363\324\272\101\064
\135\022\055\045\271\215\246\023\110\155\113\260\007\175\231\223
\011\141\201\164\127\046\212\253\151\343\344\331\307\210\314\044
\330\354\122\044\134\036\274\221\024\342\226\336\353\012\332\236
\335\137\263\133\333\324\202\354\306\040\120\207\045\100\072\373

\307\356\315\376\063\345\156\303\204\011\125\003\045\071\300\351
\065\135\145\061\250\366\277\240\011\315\051\307\263\066\062\056
\334\225\363\203\301\132\317\213\215\366\352\263\041\370\244\355
\036\061\016\266\114\021\253\140\013\244\022\043\042\027\243\066
\144\202\221\004\022\340\253\157\036\313\120\005\141\264\100\377
\131\206\161\321\325\063\151\174\251\163\212\070\327\144\014\361
\151
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Microsoft Root Certificate Authority 2010"
Issuer: CN=Microsoft Root Certificate Authority 2010,O=Microsoft
Corporation,L=Redmond,ST=Washington,C=US
Serial Number:28:cc:3a:25:bf:ba:44:ac:44:9a:9b:58:6b:43:39:aa
Subject: CN=Microsoft Root Certificate Authority 2010,O=Microsoft
Corporation,L=Redmond,ST=Washington,C=US
Not Valid Before: Wed Jun 23 21:57:24 2010
Not Valid After: Sat Jun 23 22:04:01 2035
Fingerprint (MD5): a2:66:bb:7d:cc:38:a5:62:63:13:61:bb:f6:1d:d1:1b
Fingerprint (SHA1): 3b:1e:fd:3a:66:ea:28:b1:66:97:39:47:03:a7:2c:a3:40:a0:5b:d5
CKA_CLASS
CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft Root Certificate Authority 2010"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\073\036\375\072\146\352\050\261\146\227\071\107\003\247\054\243
\100\240\133\325
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\242\146\273\175\314\070\245\142\143\023\141\273\366\035\321\033
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\010\023\012\127\141\163\150\151
\156\147\164\157\156\061\020\060\016\006\003\125\004\007\023\007
\122\145\144\155\157\156\144\061\036\060\034\006\003\125\004\012
\023\025\115\151\143\162\157\163\157\146\164\040\103\157\162\160
\157\162\141\164\151\157\156\061\062\060\060\006\003\125\004\003
\023\051\115\151\143\162\157\163\157\146\164\040\122\157\157\164
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\040\062\060\061\060
END

```
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\050\314\072\045\277\272\104\254\104\232\233\130\153\103
\071\252
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "GTE CyberTrust Global Root"
# Issuer: CN=GTE CyberTrust Global Root,OU=GTE CyberTrust Solutions\, Inc.,O=GTE Corporation,C=US
# Serial Number: 421 (0x1a5)
# Subject: CN=GTE CyberTrust Global Root,OU=GTE CyberTrust Solutions\, Inc.,O=GTE Corporation,C=US
# Not Valid Before: Thu Aug 13 00:29:00 1998
# Not Valid After: Mon Aug 13 23:59:00 2018
# Fingerprint (MD5): ca:3d:d3:68:f1:03:5c:d0:32:fa:b8:2b:59:e8:5a:db
# Fingerprint (SHA1): 97:81:79:50:d8:1c:96:70:cc:34:d8:09:cf:79:44:31:36:7e:f4:74
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE
 CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTE CyberTrust Global Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\165\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\030\060\026\006\003\125\004\012\023\017\107\124\105\040\103\157
\162\160\157\162\141\164\151\157\156\061\047\060\045\006\003\125
\004\013\023\036\107\124\105\040\103\171\142\145\162\124\162\165
\163\164\040\123\157\154\165\164\151\157\156\163\054\040\111\156
\143\056\061\043\060\041\006\003\125\004\003\023\032\107\124\105
\040\103\171\142\145\162\124\162\165\163\164\040\107\154\157\142
\141\154\040\122\157\157\164
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\165\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\030\060\026\006\003\125\004\012\023\017\107\124\105\040\103\157
\162\160\157\162\141\164\151\157\156\061\047\060\045\006\003\125
\004\013\023\036\107\124\105\040\103\171\142\145\162\124\162\165
\163\164\040\123\157\154\165\164\151\157\156\163\054\040\111\156
\143\056\061\043\060\041\006\003\125\004\003\023\032\107\124\105
\040\103\171\142\145\162\124\162\165\163\164\040\107\154\157\142
\141\154\040\122\157\157\164
END
CKA_SERIAL_NUMBER
```

MULTILINE_OCTAL
\002\002\001\245
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\132\060\202\001\303\002\002\001\245\060\015\006\011
\052\206\110\206\367\015\001\001\004\005\000\060\165\061\013\060
\011\006\003\125\004\006\023\002\125\123\061\030\060\026\006\003
\125\004\012\023\017\107\124\105\040\103\157\162\160\157\162\141
\164\151\157\156\061\047\060\045\006\003\125\004\013\023\036\107
\124\105\040\103\171\142\145\162\124\162\165\163\164\040\123\157
\154\165\164\151\157\156\163\054\040\111\156\143\056\061\043\060
\041\006\003\125\004\003\023\032\107\124\105\040\103\171\142\145
\162\124\162\165\163\164\040\107\154\157\142\141\154\040\122\157
\157\164\060\036\027\015\071\070\060\070\061\063\060\060\062\071
\060\060\132\027\015\061\070\060\070\061\063\062\063\065\071\060
\060\132\060\165\061\013\060\011\006\003\125\004\006\023\002\125
\123\061\030\060\026\006\003\125\004\012\023\017\107\124\105\040
\103\157\162\160\157\162\141\164\151\157\156\061\047\060\045\006
\003\125\004\013\023\036\107\124\105\040\103\171\142\145\162\124
\162\165\163\164\040\123\157\154\165\164\151\157\156\163\054\040
\111\156\143\056\061\043\060\041\006\003\125\004\003\023\032\107
\124\105\040\103\171\142\145\162\124\162\165\163\164\040\107\154
\157\142\141\154\040\122\157\157\164\060\201\237\060\015\006\011
\052\206\110\206\367\015\001\001\001\005\000\003\201\215\000\060
\201\211\002\201\201\000\225\017\240\266\360\120\234\350\172\307
\210\315\335\027\016\056\260\224\320\033\075\016\366\224\300\212
\224\307\006\310\220\227\310\270\144\032\172\176\154\074\123\341
\067\050\163\140\177\262\227\123\007\237\123\371\155\130\224\322
\257\215\155\210\147\200\346\355\262\225\317\162\061\312\245\034
\162\272\134\002\347\144\102\347\371\251\054\326\072\015\254\215
\102\252\044\001\071\346\234\077\001\205\127\015\130\207\105\370
\323\205\252\223\151\046\205\160\110\200\077\022\025\307\171\264
\037\005\057\073\142\231\002\003\001\000\001\060\015\006\011\052
\206\110\206\367\015\001\001\004\005\000\003\201\201\000\155\353
\033\011\351\136\331\121\333\147\042\141\244\052\074\110\167\343
\240\174\246\336\163\242\024\003\205\075\373\253\016\060\305\203
\026\063\201\023\010\236\173\064\116\337\100\310\164\327\271\175
\334\364\166\125\175\233\143\124\030\351\360\352\363\134\261\331
\213\102\036\271\300\225\116\272\372\325\342\174\365\150\141\277
\216\354\005\227\137\133\260\327\243\205\064\304\044\247\015\017
\225\223\357\313\224\330\236\037\235\134\205\155\307\252\256\117
\037\042\265\315\225\255\272\247\314\371\253\013\172\177
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

```
# Microsoft Code Signing Only Certificate
# Trust for "GTE CyberTrust Global Root"
# Issuer: CN=GTE CyberTrust Global Root,OU=GTE
 CyberTrust Solutions\, Inc.,O=GTE Corporation,C=US
# Serial Number: 421 (0x1a5)
# Subject: CN=GTE CyberTrust Global Root,OU=GTE CyberTrust Solutions\, Inc.,O=GTE Corporation,C=US
# Not Valid Before: Thu Aug 13 00:29:00 1998
# Not Valid After: Mon Aug 13 23:59:00 2018
# Fingerprint (MD5): ca:3d:d3:68:f1:03:5c:d0:32:fa:b8:2b:59:e8:5a:db
# Fingerprint (SHA1): 97:81:79:50:d8:1c:96:70:cc:34:d8:09:cf:79:44:31:36:7e:f4:74
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTE CyberTrust Global Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\227\201\171\120\330\034\226\160\314\064\330\011\317\171\104\061
\066\176\364\164
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\312\075\323\150\361\003\134\320\062\372\270\053\131\350\132\333
END
CKA_ISSUER MULTILINE_OCTAL
\060\165\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\030\060\026\006\003\125\004\012\023\017\107\124\105\040\103\157
\162\160\157\162\141\164\151\157\156\061\047\060\045\006\003\125
\004\013\023\036\107\124\105\040\103\171\142\145\162\124\162\165
\163\164\040\123\157\154\165\164\151\157\156\163\054\040\111\156
\143\056\061\043\060\041\006\003\125\004\003\023\032\107\124\105
\040\103\171\142\145\162\124\162\165\163\164\040\107\154\157\142
\141\154\040\122\157\157\164
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\002\001\245
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Thawte Server CA"
# Issuer: 1.2.840.113549.1.9.1=server-certs@thawte.com,CN=Thawte Server CA,OU=Certification Services
Division,O=Thawte Consulting cc,L=Cape Town,ST=Western Cape,C=ZA
# Serial Number: 1 (0x1)
# Subject: 1.2.840.113549.1.9.1=server-certs@thawte.com,CN=Thawte Server CA,OU=Certification Services
Division,O=Thawte
```

```
 Consulting cc,L=Cape Town,ST=Western Cape,C=ZA
# Not Valid Before: Thu Aug 01 00:00:00 1996
# Not Valid After: Thu Dec 31 23:59:59 2020
# Fingerprint (MD5): c5:70:c4:a2:ed:53:78:0c:c8:10:53:81:64:cb:d0:1d
# Fingerprint (SHA1): 23:e5:94:94:51:95:f2:41:48:03:b4:d5:64:d2:a3:a3:f5:d8:8b:8c
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Thawte Server CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\304\061\013\060\011\006\003\125\004\006\023\002\132\101
\061\025\060\023\006\003\125\004\010\023\014\127\145\163\164\145
\162\156\040\103\141\160\145\061\022\060\020\006\003\125\004\007
\023\011\103\141\160\145\040\124\157\167\156\061\035\060\033\006
\003\125\004\012\023\024\124\150\141\167\164\145\040\103\157\156
\163\165\154\164\151\156\147\040\143\143\061\050\060\046\006\003
\125\004\013\023\037\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\123\145\162\166\151\143\145\163\040\104\151\166\151
\163\151\157\156\061\031\060\027\006\003\125\004\003\023\020\124
\150\141\167\164\145\040\123\145\162\166\145\162\040\103\101\061
\046\060\044\006\011\052\206\110\206\367\015\001\011\001\026\027
\163\145\162\166\145\162\055\143\145\162\164\163\100\164\150\141
\167\164\145\056\143\157\155
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\304\061\013\060\011\006\003\125\004\006\023\002\132\101
\061\025\060\023\006\003\125\004\010\023\014\127\145\163\164\145
\162\156\040\103\141\160\145\061\022\060\020\006\003\125\004\007
\023\011\103\141\160\145\040\124\157\167\156\061\035\060\033\006
\003\125\004\012\023\024\124\150\141\167\164\145\040\103\157\156
\163\165\154\164\151\156\147\040\143\143\061\050\060\046\006\003
\125\004\013\023\037\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\123\145\162\166\151\143\145\163\040\104\151\166\151
\163\151\157\156\061\031\060\027\006\003\125\004\003\023\020\124
\150\141\167\164\145\040\123\145\162\166\145\162\040\103\101\061
\046\060\044\006\011\052\206\110\206\367\015\001\011\001\026\027
\163\145\162\166\145\162\055\143\145\162\164\163\100\164\150\141
\167\164\145\056\143\157\155
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
```

\060\202\003\023\060\202\002\174\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\206\367\015\001\001\004\005\000\060
\201\304\061\013\060\011\006\003\125\004\006\023\002\132\101\061
\025\060\023\006\003\125\004\010\023\014\127\145\163\164\145\162
\156\040\103\141\160\145\061\022\060\020\006\003\125\004\007\023
\011\103\141\160\145\040\124\157\167\156\061\035\060\033\006\003
\125\004\012\023\024\124\150\141\167\164\145\040\103\157\156\163
\165\154\164\151\156\147\040\143\143\061\050\060\046\006\003\125
\004\013\023\037\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\123\145\162\166\151\143\145\163\040\104\151\166\151\163
\151\157\156\061\031\060\027\006\003\125\004\003\023\020\124\150
\141\167\164\145\040\123\145\162\166\145\162\040\103\101\061\046
\060\044\006\011\052\206\110\206\367\015\001\011\001\026\027\163
\145\162\166\145\162\055\143\145\162\164\163\100\164\150\141\167
\164\145\056\143\157\155\060\036\027\015\071\066\060\070\060\061
\060\060\060\060\060\060\132\027\015\062\060\061\062\063\061\062
\063\065\071\065\071\132\060\201\304\061\013\060\011\006\003\125
\004\006\023\002\132\101\061\025\060\023\006\003\125\004\010\023
\014\127\145\163\164\145\162\156\040\103\141\160\145\061\022\060
\020\006\003\125\004\007\023\011\103\141\160\145\040\124\157\167
\156\061\035\060\033\006\003\125\004\012\023\024\124\150\141\167
\164\145\040\103\157\156\163\165\154\164\151\156\147\040\143\143
\061\050\060\046\006\003\125\004\013\023\037\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\123\145\162\166\151\143\145
\163\040\104\151\166\151\163\151\157\156\061\031\060\027\006\003
\125\004\003\023\020\124\150\141\167\164\145\040\123\145\162\166
\145\162\040\103\101\061\046\060\044\006\011\052\206\110\206\367
\015\001\011\001\026\027\163\145\162\166\145\162\055\143\145\162
\164\163\100\164\150\141\167\164\145\056\143\157\155\060\201\237
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\201\215\000\060\201\211\002\201\201\000\323\244\120\156\310\377
\126\153\346\317\135\266\352\014\150\165\107\242\252\302\332\204
\045\374\250\364\107\121\332\205\265\040\164\224\206\036\017\165
\311\351\010\141\365\006\155\060\156\025\031\002\351\122\300\142
\333\115\231\236\342\152\014\104\070\315\376\276\343\144\011\160
\305\376\261\153\051\266\057\111\310\073\324\047\004\045\020\227
\057\347\220\155\300\050\102\231\327\114\103\336\303\365\041\155
\124\237\135\303\130\341\300\344\331\133\260\270\334\264\173\337
\066\072\302\265\146\042\022\326\207\015\002\003\001\000\001\243
\023\060\021\060\017\006\003\125\035\023\001\001\377\004\005\060
\003\001\001\377\060\015\006\011\052\206\110\206\367\015\001\001
\004\005\000\003\201\201\000\007\372\114\151\134\373\225\314\106
\356\205\203\115\041\060\216\312\331\250\157\111\032\346\332\121
\343\140\160\154\204\141\021\241\032\310\110\076\131\103\175\117
\225\075\241\213\267\013\142\230\172\165\212\335\210\116\116\236
\100\333\250\314\062\164\271\157\015\306\343\263\104\013\331\212
\157\232\051\233\231\030\050\073\321\343\100\050\232\132\074\325
\265\347\040\033\213\312\244\253\215\351\121\331\342\114\054\131

\251\332\271\262\165\033\366\102\362\357\307\362\030\371\211\274
\243\377\212\043\056\160\107
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Thawte Server CA"
Issuer: 1.2.840.113549.1.9.1=server-certs@thawte.com,CN=Thawte Server CA,OU=Certification Services Division,O=Thawte Consulting cc,L=Cape Town,ST=Western Cape,C=ZA
Serial Number: 1 (0x1)
Subject: 1.2.840.113549.1.9.1=server-certs@thawte.com,CN=Thawte Server CA,OU=Certification Services Division,O=Thawte Consulting cc,L=Cape Town,ST=Western Cape,C=ZA
Not Valid Before: Thu Aug 01 00:00:00 1996
Not Valid After: Thu Dec 31 23:59:59 2020
Fingerprint (MD5): c5:70:c4:a2:ed:53:78:0c:c8:10:53:81:64:cb:d0:1d
Fingerprint (SHA1): 23:e5:94:94:51:95:f2:41:48:03:b4:d5:64:d2:a3:a3:f5:d8:8b:8c
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Thawte Server CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\043\345\224\224\121\225\362\101\110\003\264\325\144\322\243\243
\365\330\213\214
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\305\160\304\242\355\123\170\014\310\020\123\201\144\313\320\035
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\304\061\013\060\011\006\003\125\004\006\023\002\132\101
\061\025\060\023\006\003\125\004\010\023\014\127\145\163\164\145
\162\156\040\103\141\160\145\061\022\060\020\006\003\125\004\007
\023\011\103\141\160\145\040\124\157\167\156\061\035\060\033\006
\003\125\004\012\023\024\124\150\141\167\164\145\040\103\157\156
\163\165\154\164\151\156\147\040\143\143\061\050\060\046\006\003
\125\004\013\023\037\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\123\145\162\166\151\143\145\163\040\104\151\166\151
\163\151\157\156\061\031\060\027\006\003\125\004\003\023\020\124
\150\141\167\164\145\040\123\145\162\166\145\162\040\103\101\061
\046\060\044\006\011\052\206\110\206\367\015\001\011\001\026\027
\163\145\162\166\145\162\055\143\145\162\164\163\100\164\150\141
\167\164\145\056\143\157\155
END
CKA_SERIAL_NUMBER

```
 MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Thawte Premium Server CA"
# Issuer: 1.2.840.113549.1.9.1=premium-server@thawte.com,CN=Thawte Premium Server CA,OU=Certification
 Services Division,O=Thawte Consulting cc,L=Cape Town,ST=Western Cape,C=ZA
# Serial Number: 1 (0x1)
# Subject: 1.2.840.113549.1.9.1=premium-server@thawte.com,CN=Thawte Premium Server CA,OU=Certification
Services Division,O=Thawte Consulting cc,L=Cape Town,ST=Western Cape,C=ZA
# Not Valid Before: Thu Aug 01 00:00:00 1996
# Not Valid After: Thu Dec 31 23:59:59 2020
# Fingerprint (MD5): 06:9f:69:79:16:66:90:02:1b:8c:8c:a2:c3:07:6f:3a
# Fingerprint (SHA1): 62:7f:8d:78:27:65:63:99:d2:7d:7f:90:44:c9:fe:b3:f3:3e:fa:9a
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Thawte Premium Server CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\316\061\013\060\011\006\003\125\004\006\023\002\132\101
\061\025\060\023\006\003\125\004\010\023\014\127\145\163\164\145
\162\156\040\103\141\160\145\061\022\060\020\006\003\125\004\007
\023\011\103\141\160\145\040\124\157\167\156\061\035\060\033\006
\003\125\004\012\023\024\124\150\141\167\164\145\040\103\157\156
\163\165\154\164\151\156\147\040\143\143\061\050\060\046\006\003
\125\004\013\023\037\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\123\145\162\166\151\143\145\163\040\104\151\166\151
\163\151\157\156\061\041\060\037\006\003\125\004\003\023\030\124
\150\141\167\164\145\040\120\162\145\155\151\165\155\040\123\145
\162\166\145\162\040\103\101\061\050\060\046\006\011\052\206\110
\206\367\015\001\011\001\026\031\160\162\145\155\151\165\155\055
\163\145\162\166\145\162\100\164\150\141\167\164\145\056\143\157
\155
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\316\061\013\060\011\006\003\125\004\006\023\002\132\101
\061\025\060\023\006\003\125\004\010\023\014\127\145\163\164\145
\162\156\040\103\141\160\145\061\022\060\020\006\003\125\004\007
\023\011\103\141\160\145\040\124\157\167\156\061\035\060\033\006
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\003\125\004\012\023\024\124\150\141\167\164\145\040\103\157\156
\163\165\154\164\151\156\147\040\143\143\061\050\060\046\006\003
\125\004\013\023\037\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\123\145\162\166\151\143\145\163\040\104\151\166\151
\163\151\157\156\061\041\060\037\006\003\125\004\003\023\030\124
\150\141\167\164\145\040\120\162\145\155\151\165\155\040\123\145
\162\166\145\162\040\103\101\061\050\060\046\006\011\052\206\110
\206\367\015\001\011\001\026\031\160\162\145\155\151\165\155\055
\163\145\162\166\145\162\100\164\150\141\167\164\145\056\143\157
\155
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\047\060\202\002\220\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\206\367\015\001\001\004\005\000\060
\201\316\061\013\060\011\006\003\125\004\006\023\002\132\101\061
\025\060\023\006\003\125\004\010\023\014\127\145\163\164\145\162
\156\040\103\141\160\145\061\022\060\020\006\003\125\004\007\023
\011\103\141\160\145\040\124\157\167\156\061\035\060\033\006\003
\125\004\012\023\024\124\150\141\167\164\145\040\103\157\156\163
\165\154\164\151\156\147\040\143\143\061\050\060\046\006\003\125
\004\013\023\037\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\123\145\162\166\151\143\145\163\040\104\151\166\151\163
\151\157\156\061\041\060\037\006\003\125\004\003\023\030\124\150
\141\167\164\145\040\120\162\145\155\151\165\155\040\123\145\162
\166\145\162\040\103\101\061\050\060\046\006\011\052\206\110\206
\367\015\001\011\001\026\031\160\162\145\155\151\165\155\055\163
\145\162\166\145\162\100\164\150\141\167\164\145\056\143\157\155
\060\036\027\015\071\066\060\070\060\061\060\060\060\060\060\060
\132\027\015\062\060\061\062\063\061\062\063\065\071\065\071\132
\060\201\316\061\013\060\011\006\003\125\004\006\023\002\132\101
\061\025\060\023\006\003\125\004\010\023\014\127\145\163\164\145
\162\156\040\103\141\160\145\061\022\060\020\006\003\125\004\007
\023\011\103\141\160\145\040\124\157\167\156\061\035\060\033\006
\003\125\004\012\023\024\124\150\141\167\164\145\040\103\157\156
\163\165\154\164\151\156\147\040\143\143\061\050\060\046\006\003
\125\004\013\023\037\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\123\145\162\166\151\143\145\163\040\104\151\166\151
\163\151\157\156\061\041\060\037\006\003\125\004\003\023\030\124
\150\141\167\164\145\040\120\162\145\155\151\165\155\040\123\145
\162\166\145\162\040\103\101\061\050\060\046\006\011\052\206\110
\206\367\015\001\011\001\026\031\160\162\145\155\151\165\155\055
\163\145\162\166\145\162\100\164\150\141\167\164\145\056\143\157
\155\060\201\237\060\015\006\011\052\206\110\206\367\015\001\001
\001\005\000\003\201\215\000\060\201\211\002\201\201\000\322\066

\066\152\213\327\302\133\236\332\201\101\142\217\070\356\111\004
\125\326\320\357\034\033\225\026\107\357\030\110\065\072\122\364
\053\152\006\217\073\057\352\126\343\257\206\215\236\027\367\236
\264\145\165\002\115\357\313\011\242\041\121\330\233\320\147\320
\272\015\222\006\024\163\324\223\313\227\052\000\234\134\116\014
\274\372\025\122\374\362\104\156\332\021\112\156\010\237\057\055
\343\371\252\072\206\163\266\106\123\130\310\211\005\275\203\021
\270\163\077\252\007\215\364\102\115\347\100\235\034\067\002\003
\001\000\001\243\023\060\021\060\017\006\003\125\035\023\001\001
\377\004\005\060\003\001\001\377\060\015\006\011\052\206\110\206
\367\015\001\001\004\005\000\003\201\201\000\046\110\054\026\302
\130\372\350\026\164\014\252\252\137\124\077\362\327\311\170\140
\136\136\156\067\143\042\167\066\176\262\027\304\064\271\365\010
\205\374\311\001\070\377\115\276\362\026\102\103\347\273\132\106
\373\301\306\021\037\361\112\260\050\106\311\303\304\102\175\274
\372\253\131\156\325\267\121\210\021\343\244\205\031\153\202\114
\244\014\022\255\351\244\256\077\361\303\111\145\232\214\305\310
\076\045\267\224\231\273\222\062\161\007\360\206\136\355\120\047
\246\015\246\043\371\273\313\246\007\024\102
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER
CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Thawte Premium Server CA"
Issuer: 1.2.840.113549.1.9.1=premium-server@thawte.com,CN=Thawte Premium Server CA,OU=Certification Services Division,O=Thawte Consulting cc,L=Cape Town,ST=Western Cape,C=ZA
Serial Number: 1 (0x1)
Subject: 1.2.840.113549.1.9.1=premium-server@thawte.com,CN=Thawte Premium Server CA,OU=Certification Services Division,O=Thawte Consulting cc,L=Cape Town,ST=Western Cape,C=ZA
Not Valid Before: Thu Aug 01 00:00:00 1996
Not Valid After: Thu Dec 31 23:59:59 2020
Fingerprint (MD5): 06:9f:69:79:16:66:90:02:1b:8c:8c:a2:c3:07:6f:3a
Fingerprint (SHA1): 62:7f:8d:78:27:65:63:99:d2:7d:7f:90:44:c9:fe:b3:f3:3e:fa:9a
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Thawte Premium Server CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\142\177\215\170\047\145\143\231\322\175\177\220\104\311\376\263
\363\076\372\232
END
CKA_CERT_MD5_HASH

```
 MULTILINE_OCTAL
\006\237\151\171\026\146\220\002\033\214\214\242\303\007\157\072
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\316\061\013\060\011\006\003\125\004\006\023\002\132\101
\061\025\060\023\006\003\125\004\010\023\014\127\145\163\164\145
\162\156\040\103\141\160\145\061\022\060\020\006\003\125\004\007
\023\011\103\141\160\145\040\124\157\167\156\061\035\060\033\006
\003\125\004\012\023\024\124\150\141\167\164\145\040\103\157\156
\163\165\154\164\151\156\147\040\143\143\061\050\060\046\006\003
\125\004\013\023\037\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\123\145\162\166\151\143\145\163\040\104\151\166\151
\163\151\157\156\061\041\060\037\006\003\125\004\003\023\030\124
\150\141\167\164\145\040\120\162\145\155\151\165\155\040\123\145
\162\166\145\162\040\103\101\061\050\060\046\006\011\052\206\110
\206\367\015\001\011\001\026\031\160\162\145\155\151\165\155\055
\163\145\162\166\145\162\100\164\150\141\167\164\145\056\143\157
\155
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Equifax Secure Global eBusiness CA-1"
# Issuer: CN=Equifax Secure Global eBusiness CA-1,O=Equifax Secure Inc.,C=US
# Serial Number: 1 (0x1)
# Subject: CN=Equifax Secure Global eBusiness CA-1,O=Equifax Secure Inc.,C=US
# Not Valid Before: Mon Jun 21 04:00:00 1999
# Not Valid After: Sun Jun 21 04:00:00 2020
# Fingerprint (MD5): 8f:5d:77:06:27:c4:98:3c:5b:93:78:e7:d7:7d:9b:cc
# Fingerprint (SHA1): 7e:78:4a:10:1c:82:65:cc:2d:e1:f1:6d:47:b4:40:ca:d9:0a:19:45
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Equifax Secure Global eBusiness CA-1"
CKA_CERTIFICATE_TYPE
 CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\034\060\032\006\003\125\004\012\023\023\105\161\165\151\146\141
\170\040\123\145\143\165\162\145\040\111\156\143\056\061\055\060
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\053\006\003\125\004\003\023\044\105\161\165\151\146\141\170\040
\123\145\143\165\162\145\040\107\154\157\142\141\154\040\145\102
\165\163\151\156\145\163\163\040\103\101\055\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\034\060\032\006\003\125\004\012\023\023\105\161\165\151\146\141
\170\040\123\145\143\165\162\145\040\111\156\143\056\061\055\060
\053\006\003\125\004\003\023\044\105\161\165\151\146\141\170\040
\123\145\143\165\162\145\040\107\154\157\142\141\154\040\145\102
\165\163\151\156\145\163\163\040\103\101\055\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\220\060\202\001\371\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\206\367\015\001\001\004\005\000\060
\132\061\013\060\011\006\003\125\004\006\023\002\125\123\061\034
\060\032\006\003\125\004\012\023\023\105\161\165\151\146\141\170
\040\123\145\143\165\162\145\040\111\156\143\056\061\055\060\053
\006\003\125\004\003\023\044\105\161\165\151\146\141\170\040\123
\145\143\165\162\145\040\107\154\157\142\141\154\040\145\102\165
\163\151\156\145\163\163\040\103\101\055\061\060\036\027\015\071
\071\060\066\062\061\060\064\060\060\060\060\132\027\015\062\060
\060\066\062\061\060\064\060\060\060\060\132\060\132\061\013\060
\011\006\003\125\004\006\023\002\125\123\061\034\060\032\006\003
\125\004\012\023\023\105\161\165\151\146\141\170\040\123\145\143
\165\162\145\040\111\156\143\056\061\055\060\053\006\003\125\004
\003\023\044\105\161\165\151\146\141\170\040\123\145\143\165\162
\145\040\107\154\157\142\141\154\040\145\102\165\163\151\156\145
\163\163\040\103\101\055\061\060\201\237\060\015\006\011\052\206
\110\206\367\015\001\001\001\005\000\003\201\215\000\060\201\211
\002\201\201\000\272\347\027\220\002\145\261\064\125\074\111\302
\121\325\337\247\321\067\217\321\347\201\163\101\122\140\233\235
\241\027\046\170\255\307\261\350\046\224\062\265\336\063\215\072
\057\333\362\232\172\132\163\230\243\134\351\373\212\163\033\134
\347\303\277\200\154\315\251\364\326\053\300\367\371\231\252\143
\242\261\107\002\017\324\344\121\072\022\074\154\212\132\124\204
\160\333\301\305\220\317\162\105\313\250\131\300\315\063\235\077
\243\226\353\205\063\041\034\076\036\076\140\156\166\234\147\205
\305\310\303\141\002\003\001\000\001\243\146\060\144\060\021\006
\011\140\206\110\001\206\370\102\001\001\004\004\003\002\000\007
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001
\377\060\037\006\003\125\035\043\004\030\060\026\200\024\276\250
\240\164\162\120\153\104\267\311\043\330\373\250\377\263\127\153
\150\154\060\035\006\003\125\035\016\004\026\004\024\276\250\240

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\164\162\120\153\104\267\311\043\330\373\250\377\263\127\153\150
\154\060\015\006\011\052\206\110\206\367\015\001\001\004\005\000
\003\201\201\000\060\342\001\121\252\307\352\137\332\271\320\145
\017\060\326\076\332\015\024\111\156\221\223\047\024\061\357\304
\367\055\105\370\354\307\277\242\101\015\043\264\222\371\031\000
\147\275\001\257\315\340\161\374\132\317\144\304\340\226\230\320
\243\100\342\001\212\357\047\007\361\145\001\212\104\055\006\145
\165\122\300\206\020\040\041\137\154\153\017\154\256\011\034\257
\362\242\030\064\304\165\244\163\034\361\215\334\357\255\371\263
\166\264\222\277\334\225\020\036\276\313\310\073\132\204\140\031
\126\224\251\125
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Trust for "Equifax Secure Global eBusiness CA-1"
# Issuer: CN=Equifax Secure Global eBusiness CA-1,O=Equifax Secure Inc.,C=US
# Serial Number: 1 (0x1)
# Subject: CN=Equifax Secure Global
 eBusiness CA-1,O=Equifax Secure Inc.,C=US
# Not Valid Before: Mon Jun 21 04:00:00 1999
# Not Valid After: Sun Jun 21 04:00:00 2020
# Fingerprint (MD5): 8f:5d:77:06:27:c4:98:3c:5b:93:78:e7:d7:7d:9b:cc
# Fingerprint (SHA1): 7e:78:4a:10:1c:82:65:cc:2d:e1:f1:6d:47:b4:40:ca:d9:0a:19:45
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Equifax Secure Global eBusiness CA-1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\176\170\112\020\034\202\145\314\055\341\361\155\107\264\100\312
\331\012\031\105
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\217\135\167\006\047\304\230\074\133\223\170\347\327\175\233\314
END
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\034\060\032\006\003\125\004\012\023\023\105\161\165\151\146\141
\170\040\123\145\143\165\162\145\040\111\156\143\056\061\055\060
\053\006\003\125\004\003\023\044\105\161\165\151\146\141\170\040
\123\145\143\165\162\145\040\107\154\157\142\141\154\040\145\102
\165\163\151\156\145\163\163\040\103\101\055\061
END
CKA_SERIAL_NUMBER
```

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 MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Equifax"
# Issuer: OU=Equifax Secure Certificate Authority,O=Equifax,C=US
# Serial Number:35:de:f4:cf
# Subject: OU=Equifax Secure Certificate Authority,O=Equifax,C=US
# Not Valid Before: Sat Aug 22 16:41:51 1998
# Not Valid After: Wed Aug 22 16:41:51 2018
# Fingerprint (MD5): 67:cb:9d:c0:13:24:8a:82:9b:b2:17:1e:d1:1b:ec:d4
# Fingerprint (SHA1): d2:32:09:ad:23:d3:14:23:21:74:e4:0d:7f:9d:62:13:97:86:63:3a
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Equifax"
CKA_CERTIFICATE_TYPE
 CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\020\060\016\006\003\125\004\012\023\007\105\161\165\151\146\141
\170\061\055\060\053\006\003\125\004\013\023\044\105\161\165\151
\146\141\170\040\123\145\143\165\162\145\040\103\145\162\164\151
\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\020\060\016\006\003\125\004\012\023\007\105\161\165\151\146\141
\170\061\055\060\053\006\003\125\004\013\023\044\105\161\165\151
\146\141\170\040\123\145\143\165\162\145\040\103\145\162\164\151
\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\065\336\364\317
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\040\060\202\002\211\240\003\002\001\002\002\004\065
\336\364\317\060\015\006\011\052\206\110\206\367\015\001\001\005
\005\000\060\116\061\013\060\011\006\003\125\004\006\023\002\125
\123\061\020\060\016\006\003\125\004\012\023\007\105\161\165\151
\146\141\170\061\055\060\053\006\003\125\004\013\023\044\105\161
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\165\151\146\141\170\040\123\145\143\165\162\145\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171\060\036\027\015\071\070\060\070\062\062\061\066\064\061
\065\061\132\027\015\061\070\060\070\062\062\061\066\064\061\065
\061\132\060\116\061\013\060\011\006\003\125\004\006\023\002\125
\123\061\020\060\016\006\003\125\004\012\023\007\105\161\165\151
\146\141\170\061\055\060\053\006\003\125\004\013\023\044\105\161
\165\151\146\141\170\040\123\145\143\165\162\145\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171\060\201\237\060\015\006\011\052\206\110\206\367\015\001
\001\001\005\000\003\201\215\000\060\201\211\002\201\201\000\301
\135\261\130\147\010\142\356\240\232\055\037\010\155\221\024\150
\230\012\036\376\332\004\157\023\204\142\041\303\321\174\316\237
\005\340\270\001\360\116\064\354\342\212\225\004\144\254\361\153
\123\137\005\263\313\147\200\277\102\002\216\376\335\001\011\354
\341\000\024\117\374\373\360\014\335\103\272\133\053\341\037\200
\160\231\025\127\223\026\361\017\227\152\267\302\150\043\034\314
\115\131\060\254\121\036\073\257\053\326\356\143\105\173\305\331
\137\120\322\343\120\017\072\210\347\277\024\375\340\307\271\002
\003\001\000\001\243\202\001\011\060\202\001\005\060\160\006\003
\125\035\037\004\151\060\147\060\145\240\143\240\141\244\137\060
\135\061\013\060\011\006\003\125\004\006\023\002\125\123\061\020
\060\016\006\003\125\004\012\023\007\105\161\165\151\146\141\170
\061\055\060\053\006\003\125\004\013\023\044\105\161\165\151\146
\141\170\040\123\145\143\165\162\145\040\103\145\162\164\151\146
\151\143\141\164\145\040\101\165\164\150\157\162\151\164\171\061
\015\060\013\006\003\125\004\003\023\004\103\122\114\061\060\032
\006\003\125\035\020\004\023\060\021\201\017\062\060\061\070\060
\070\062\062\061\066\064\061\065\061\132\060\013\006\003\125\035
\017\004\004\003\002\001\006\060\037\006\003\125\035\043\004\030
\060\026\200\024\110\346\150\371\053\322\262\225\327\107\330\043
\040\020\117\063\230\220\237\324\060\035\006\003\125\035\016\004
\026\004\024\110\346\150\371\053\322\262\225\327\107\330\043\040
\020\117\063\230\220\237\324\060\014\006\003\125\035\023\004\005
\060\003\001\001\377\060\032\006\011\052\206\110\206\366\175\007
\101\000\004\015\060\013\033\005\126\063\056\060\143\003\002\006
\300\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000
\003\201\201\000\130\316\051\352\374\367\336\265\316\002\271\027
\265\205\321\271\343\340\225\314\045\061\015\000\246\222\156\177
\266\222\143\236\120\225\321\232\157\344\021\336\143\205\156\230
\356\250\377\132\310\323\125\262\146\161\127\336\300\041\353\075
\052\247\043\111\001\004\206\102\173\374\356\177\242\026\122\265
\147\147\323\100\333\073\046\130\262\050\167\075\256\024\167\141
\326\372\052\146\047\240\015\372\247\163\134\352\160\361\224\041
\145\104\137\372\374\357\051\150\251\242\207\171\357\171\357\117
\254\007\167\070
END
CKA_NSS_MOZILLA_CA_POLICY

```
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Trust for "Equifax"
# Issuer: OU=Equifax Secure Certificate Authority,O=Equifax,C=US
# Serial Number:35:de:f4:cf
# Subject: OU=Equifax Secure Certificate Authority,O=Equifax,C=US
# Not Valid Before: Sat Aug 22 16:41:51 1998
# Not Valid After: Wed Aug 22 16:41:51 2018
# Fingerprint (MD5): 67:cb:9d:c0:13:24:8a:82:9b:b2:17:1e:d1:1b:ec:d4
# Fingerprint (SHA1): d2:32:09:ad:23:d3:14:23:21:74:e4:0d:7f:9d:62:13:97:86:63:3a
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Equifax"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\322\062\011\255\043\323\024\043\041\164\344\015\177\235\142\023
\227\206\143\072
END
CKA_CERT_MD5_HASH
 MULTILINE_OCTAL
\147\313\235\300\023\044\212\202\233\262\027\036\321\033\354\324
END
CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\020\060\016\006\003\125\004\012\023\007\105\161\165\151\146\141
\170\061\055\060\053\006\003\125\004\013\023\044\105\161\165\151
\146\141\170\040\123\145\143\165\162\145\040\103\145\162\164\151
\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\065\336\364\317
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Class 1 Primary CA"
# Issuer: CN=Class 1 Primary CA,O=Certplus,C=FR
# Serial Number:86:fe:1d:5f:c3:81:f8:47:d7:33:2c:73:94:75:7b:37
# Subject: CN=Class 1 Primary CA,O=Certplus,C=FR
# Not Valid
```

Before: Wed Jul 07 17:01:00 1999
Not Valid After: Mon Jul 06 23:59:59 2020
Fingerprint (MD5): 21:24:a6:81:c1:d8:f2:19:af:49:98:e3:9d:fe:0b:f4
Fingerprint (SHA1): 6a:17:45:70:a9:16:fb:e8:44:53:ee:d3:d0:70:a1:d8:da:44:28:29
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Class 1 Primary CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\075\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\021\060\017\006\003\125\004\012\023\010\103\145\162\164\160\154
\165\163\061\033\060\031\006\003\125\004\003\023\022\103\154\141
\163\163\040\061\040\120\162\151\155\141\162\171\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\075\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\021\060\017\006\003\125\004\012\023\010\103\145\162\164\160\154
\165\163\061\033\060\031\006\003\125\004\003\023\022\103\154\141
\163\163\040\061\040\120\162\151\155\141\162\171\040\103\101
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\021\000\206\376\035\137\303\201\370\107\327\063\054\163\224
\165\173\067
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\222\060\202\002\172\240\003\002\001\002\002\021\000
\206\376\035\137\303\201\370\107\327\063\054\163\224\165\173\067
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\075\061\013\060\011\006\003\125\004\006\023\002\106\122\061\021
\060\017\006\003\125\004\012\023\010\103\145\162\164\160\154\165
\163\061\033\060\031\006\003\125\004\003\023\022\103\154\141\163
\163\040\061\040\120\162\151\155\141\162\171\040\103\101\060\036
\027\015\071\071\060\067\060\067\061\067\060\061\060\060\132\027
\015\062\060\060\067\060\066\062\063\065\071\065\071\132\060\075
\061\013\060\011\006\003\125\004\006\023\002\106\122\061\021\060
\017\006\003\125\004\012\023\010\103\145\162\164\160\154\165\163
\061\033\060\031\006\003\125\004\003\023\022\103\154\141\163\163
\040\061\040\120\162\151\155\141\162\171\040\103\101\060\202\001
\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000
\003\202\001\017\000\060\202\001\012\002\202\001\001\000\303\153
\051\310\056\307\256\174\122\005\351\223\211\126\012\132\171\311
\314\334\045\357\207\212\055\005\330\201\027\004\033\072\105\370
\171\016\015\111\324\201\101\310\253\105\373\165\310\025\362\342
\320\274\331\141\154\204\244\023\031\247\331\371\362\111\334\114

\017\306\175\127\264\023\334\036\011\161\051\066\235\200\130\364
\033\330\211\024\353\323\322\223\113\052\361\167\347\152\145\275
\031\345\252\375\014\112\143\341\302\231\264\017\004\266\132\033
\066\074\067\074\277\305\345\136\361\137\127\016\037\307\375\054
\347\344\157\152\233\142\226\071\021\233\146\360\054\266\122\334
\341\047\377\333\155\376\353\253\143\024\035\143\210\143\342\026
\014\371\040\124\017\233\335\025\152\166\203\117\275\047\213\123
\246\067\322\207\362\107\120\122\073\146\351\321\170\032\033\262
\073\151\360\131\074\070\133\321\052\114\063\136\016\312\126\245
\355\055\133\202\203\115\326\070\116\212\126\266\152\057\044\153
\022\060\246\052\336\257\014\273\252\104\022\034\023\305\145\017
\343\375\330\032\061\113\344\077\014\174\105\350\026\063\002\003
\001\000\001\243\201\214\060\201\211\060\017\006\003\125\035\023
\004\010\060\006\001\001\377\002\001\012\060\013\006\003\125\035
\017\004\004\003\002\001\006\060\035\006\003\125\035\016\004\026
\004\024\043\056\337\351\201\264\320\204\375\216\273\251\335\371
\014\243\343\363\111\123\060\021\006\011\140\206\110\001\206\370
\102\001\001\004\004\003\002\001\006\060\067\006\003\125\035\037
\004\060\060\056\060\054\240\052\240\050\206\046\150\164\164\160
\072\057\057\167\167\167\056\143\145\162\164\160\154\165\163\056
\143\157\155\057\103\122\114\057\143\154\141\163\163\061\056\143
\162\154\060\015\006\011\052\206\110\206\367\015\001\001\005\005
\000\003\202\001\001\000\276\046\123\326\136\237\220\077\001\224
\002\354\010\301\210\232\320\247\372\120\015\332\374\224\035\250
\324\120\043\320\237\034\213\141\261\262\252\104\017\254\330\023
\015\325\326\241\350\061\170\320\357\036\203\100\232\345\375\101
\351\222\375\356\243\225\220\363\300\270\157\176\367\064\245\241
\337\074\363\336\126\262\307\337\207\046\104\307\342\203\271\023
\157\060\105\161\051\042\025\253\304\333\077\117\363\167\371\231
\030\064\365\163\222\175\067\146\147\111\156\063\232\115\051\224
\213\275\120\071\143\145\017\020\347\173\020\152\321\107\371\236
\045\014\047\051\302\333\010\210\347\252\211\072\105\252\237\111
\262\175\352\150\212\100\376\221\301\302\111\377\041\321\147\016
\032\022\035\112\056\034\373\224\371\155\073\171\062\371\036\051
\221\012\102\226\105\361\357\312\130\017\162\235\014\251\203\274
\062\335\230\004\321\131\341\144\027\275\314\201\243\003\136\226
\140\345\177\026\070\012\153\321\372\263\204\235\052\312\076\373
\102\370\117\350\247\133\050\031\030\255\340\246\146\036\260\051
\041\362\270\231\217\377
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL
 CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Class 1 Primary CA"

```
# Issuer: CN=Class 1 Primary CA,O=Certplus,C=FR
# Serial Number:86:fe:1d:5f:c3:81:f8:47:d7:33:2c:73:94:75:7b:37
# Subject: CN=Class 1 Primary CA,O=Certplus,C=FR
# Not Valid Before: Wed Jul 07 17:01:00 1999
# Not Valid After: Mon Jul 06 23:59:59 2020
# Fingerprint (MD5): 21:24:a6:81:c1:d8:f2:19:af:49:98:e3:9d:fe:0b:f4
# Fingerprint (SHA1): 6a:17:45:70:a9:16:fb:e8:44:53:ee:d3:d0:70:a1:d8:da:44:28:29
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Class 1 Primary CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\152\027\105\160\251\026\373\350\104\123\356\323\320\160\241\330
\332\104\050\051
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\041\044\246\201\301\330\362\031\257\111\230\343\235\376\013\364
END
CKA_ISSUER MULTILINE_OCTAL
\060\075\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\021\060\017\006\003\125\004\012\023\010\103\145\162\164\160\154
\165\163\061\033\060\031\006\003\125\004\003\023\022\103\154\141
\163\163\040\061\040\120\162\151\155\141\162\171\040\103\101
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\021\000\206\376\035\137\303\201\370\107\327\063\054\163\224
\165\173\067
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "UTN-USERFirst-Object"
# Issuer: CN=UTN-USERFirst-Object,OU=http://www.usertrust.com,O=The USERTRUST Network,L=Salt Lake
City,ST=UT,C=US
# Serial Number:44:be:0c:8b:50:00:24:b4:11:d3:36:2d:e0:b3:5f:1b
# Subject: CN=UTN-USERFirst-Object,OU=http://www.usertrust.com,O=The USERTRUST Network,L=Salt Lake
City,ST=UT,C=US
# Not Valid Before: Fri Jul 09 18:31:20 1999
# Not Valid After: Tue Jul 09 18:40:36
 2019
# Fingerprint (MD5): a7:f2:e4:16:06:41:11:50:30:6b:9c:e3:b4:9c:b0:c9
# Fingerprint (SHA1): e1:2d:fb:4b:41:d7:d9:c3:2b:30:51:4b:ac:1d:81:d8:38:5e:2d:46
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
```

```
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "UTN-USERFirst-Object"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\225\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\013\060\011\006\003\125\004\010\023\002\125\124\061\027\060
\025\006\003\125\004\007\023\016\123\141\154\164\040\114\141\153
\145\040\103\151\164\171\061\036\060\034\006\003\125\004\012\023
\025\124\150\145\040\125\123\105\122\124\122\125\123\124\040\116
\145\164\167\157\162\153\061\041\060\037\006\003\125\004\013\023
\030\150\164\164\160\072\057\057\167\167\167\056\165\163\145\162
\164\162\165\163\164\056\143\157\155\061\035\060\033\006\003\125
\004\003\023\024\125\124\116\055\125\123\105\122\106\151\162\163
\164\055\117\142\152\145\143\164
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\225\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\013\060\011\006\003\125\004\010\023\002\125\124\061\027\060
\025\006\003\125\004\007\023\016\123\141\154\164\040\114\141\153
\145\040\103\151\164\171\061\036\060\034\006\003\125\004\012\023
\025\124\150\145\040\125\123\105\122\124\122\125\123\124\040\116
\145\164\167\157\162\153\061\041\060\037\006\003\125\004\013\023
\030\150\164\164\160\072\057\057\167\167\167\056\165\163\145\162
\164\162\165\163\164\056\143\157\155\061\035\060\033\006\003\125
\004\003\023\024\125\124\116\055\125\123\105\122\106\151\162\163
\164\055\117\142\152\145\143\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\104\276\014\213\120\000\044\264\021\323\066\055\340\263
\137\033
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\146\060\202\003\116\240\003\002\001\002\002\020\104
\276\014\213\120\000\044\264\021\323\066\055\340\263\137\033\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\201
\225\061\013\060\011\006\003\125\004\006\023\002\125\123\061\013
\060\011\006\003\125\004\010\023\002\125\124\061\027\060\025\006
\003\125\004\007\023\016\123\141\154\164\040\114\141\153\145\040
\103\151\164\171\061\036\060\034\006\003\125\004\012\023\025\124
\150\145\040\125\123\105\122\124\122\125\123\124\040\116\145\164
\167\157\162\153\061\041\060\037\006\003\125\004\013\023\030\150
\164\164\160\072\057\057\167\167\167\056\165\163\145\162\164\162
\165\163\164\056\143\157\155\061\035\060\033\006\003\125\004\003
\023\024\125\124\116\055\125\123\105\122\106\151\162\163\164\055
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\117\142\152\145\143\164\060\036\027\015\071\071\060\067\060\071
\061\070\063\061\062\060\132\027\015\061\071\060\067\060\071\061
\070\064\060\063\066\132\060\201\225\061\013\060\011\006\003\125
\004\006\023\002\125\123\061\013\060\011\006\003\125\004\010\023
\002\125\124\061\027\060\025\006\003\125\004\007\023\016\123\141
\154\164\040\114\141\153\145\040\103\151\164\171\061\036\060\034
\006\003\125\004\012\023\025\124\150\145\040\125\123\105\122\124
\122\125\123\124\040\116\145\164\167\157\162\153\061\041\060\037
\006\003\125\004\013\023\030\150\164\164\160\072\057\057\167\167
\167\056\165\163\145\162\164\162\165\163\164\056\143\157\155\061
\035\060\033\006\003\125\004\003\023\024\125\124\116\055\125\123
\105\122\106\151\162\163\164\055\117\142\152\145\143\164\060\202
\001\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005
\000\003\202\001\017\000\060\202\001\012\002\202\001\001\000\316
\252\201\077\243\243\141\170\252\061\000\125\225\021\236\047\017
\037\034\337\072\233\202\150\060\300\112\141\035\361\057\016\372
\276\171\367\245\043\357\125\121\226\204\315\333\343\271\156\076
\061\330\012\040\147\307\364\331\277\224\353\107\004\076\002\316
\052\242\135\207\004\011\366\060\235\030\212\227\262\252\034\374
\101\322\241\066\313\373\075\221\272\347\331\160\065\372\344\347
\220\303\233\243\233\323\074\365\022\231\167\261\267\011\340\150
\346\034\270\363\224\143\210\152\152\376\013\166\311\276\364\042
\344\147\271\253\032\136\167\301\205\007\335\015\154\277\356\006
\307\167\152\101\236\247\017\327\373\356\224\027\267\374\205\276
\244\253\304\034\061\335\327\266\321\344\360\357\337\026\217\262
\122\223\327\241\324\211\241\007\056\277\341\001\022\102\036\032
\341\330\225\064\333\144\171\050\377\272\056\021\302\345\350\133
\222\110\373\107\013\302\154\332\255\062\203\101\363\245\345\101
\160\375\145\220\155\372\372\121\304\371\275\226\053\031\004\054
\323\155\247\334\360\177\157\203\145\342\152\253\207\206\165\002
\003\001\000\001\243\201\257\060\201\254\060\013\006\003\125\035
\017\004\004\003\002\001\306\060\017\006\003\125\035\023\001\001
\377\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004
\026\004\024\332\355\144\164\024\234\024\074\253\335\231\251\275
\133\050\115\213\074\311\330\060\102\006\003\125\035\037\004\073
\060\071\060\067\240\065\240\063\206\061\150\164\164\160\072\057
\057\143\162\154\056\165\163\145\162\164\162\165\163\164\056\143
\157\155\057\125\124\116\055\125\123\105\122\106\151\162\163\164
\055\117\142\152\145\143\164\056\143\162\154\060\051\006\003\125
\035\045\004\042\060\040\006\010\053\006\001\005\005\007\003\003
\006\010\053\006\001\005\005\007\003\010\006\012\053\006\001\004
\001\202\067\012\003\004\060\015\006\011\052\206\110\206\367\015
\001\001\005\005\000\003\202\001\001\000\010\037\122\261\067\104
\170\333\375\316\271\332\225\226\230\252\125\144\200\265\132\100
\335\041\245\305\301\363\137\054\114\310\107\132\151\352\350\360
\065\065\364\320\045\363\310\246\244\207\112\275\033\261\163\010
\275\324\303\312\266\065\273\131\206\167\061\315\247\200\024\256
\023\357\374\261\110\371\153\045\045\055\121\266\054\155\105\301

\230\310\212\126\135\076\356\103\116\076\153\047\216\320\072\113
\205\013\137\323\355\152\247\165\313\321\132\207\057\071\165\023
\132\162\260\002\201\237\276\360\017\204\124\040\142\154\151\324
\341\115\306\015\231\103\001\015\022\226\214\170\235\277\120\242
\261\104\252\152\317\027\172\317\157\017\324\370\044\125\137\360
\064\026\111\146\076\120\106\311\143\161\070\061\142\270\142\271
\363\123\255\154\265\053\242\022\252\031\117\011\332\136\347\223
\306\216\024\010\376\360\060\200\030\240\206\205\115\310\175\327
\213\003\376\156\325\367\235\026\254\222\054\240\043\345\234\221
\122\037\224\337\027\224\163\303\263\301\301\161\005\040\000\170
\275\023\122\035\250\076\315\000\037\310
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "UTN-USERFirst-Object"
Issuer: CN=UTN-USERFirst-Object,OU=http://www.usertrust.com,O=The USERTRUST Network,L=Salt Lake City,ST=UT,C=US
Serial Number:44:be:0c:8b:50:00:24:b4:11:d3:36:2d:e0:b3:5f:1b
Subject: CN=UTN-USERFirst-Object,OU=http://www.usertrust.com,O=The USERTRUST Network,L=Salt Lake City,ST=UT,C=US
Not Valid Before: Fri Jul 09 18:31:20 1999
Not Valid After:
Tue Jul 09 18:40:36 2019
Fingerprint (MD5): a7:f2:e4:16:06:41:11:50:30:6b:9c:e3:b4:9c:b0:c9
Fingerprint (SHA1): e1:2d:fb:4b:41:d7:d9:c3:2b:30:51:4b:ac:1d:81:d8:38:5e:2d:46
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "UTN-USERFirst-Object"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\341\055\373\113\101\327\331\303\053\060\121\113\254\035\201\330
\070\136\055\106
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\247\362\344\026\006\101\021\120\060\153\234\343\264\234\260\311
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\225\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\013\060\011\006\003\125\004\010\023\002\125\124\061\027\060
\025\006\003\125\004\007\023\016\123\141\154\164\040\114\141\153
\145\040\103\151\164\171\061\036\060\034\006\003\125\004\012\023
\025\124\150\145\040\125\123\105\122\124\122\125\123\124\040\116
\145\164\167\157\162\153\061\041\060\037\006\003\125\004\013\023

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\030\150\164\164\160\072\057\057\167\167\167\056\165\163\145\162
\164\162\165\163\164\056\143\157\155\061\035\060\033\006\003\125
\004\003\023\024\125\124\116\055\125\123\105\122\106\151\162\163
\164\055\117\142\152\145\143\164
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\104\276\014\213\120\000\044\264\021\323\066\055\340\263
\137\033
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "BYTE Root Certification Authority 001"
# Issuer: CN=BYTE Root Certification Authority 001,O=BYTE Computer S.A.,C=GR
# Serial Number:71:8c:2f:39:7c:40:74:40
# Subject: CN=BYTE Root Certification Authority 001,O=BYTE Computer S.A.,C=GR
# Not Valid Before: Wed Sep 10 22:01:54 2014
# Not Valid After: Sat Sep 10 22:01:54 2039
# Fingerprint (MD5): fa:fb:82:6a:e5:b3:a2:83:50:9b:83:28:b6:41:42:03
#
 Fingerprint (SHA1): 3f:0f:eb:17:a7:ef:58:04:cf:d9:0a:77:b7:bb:02:1e:a6:9c:64:18
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "BYTE Root Certification Authority 001"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\033\060\031\006\003\125\004\012\014\022\102\131\124\105\040\103
\157\155\160\165\164\145\162\040\123\056\101\056\061\056\060\054
\006\003\125\004\003\014\045\102\131\124\105\040\122\157\157\164
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\060\060\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\033\060\031\006\003\125\004\012\014\022\102\131\124\105\040\103
\157\155\160\165\164\145\162\040\123\056\101\056\061\056\060\054
\006\003\125\004\003\014\045\102\131\124\105\040\122\157\157\164
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\060\060\061
END
```

CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\010\161\214\057\071\174\100\164\100
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\231\060\202\003\201\240\003\002\001\002\002\010\161
\214\057\071\174\100\164\100\060\015\006\011\052\206\110\206\367
\015\001\001\013\005\000\060\132\061\013\060\011\006\003\125\004
\006\023\002\107\122\061\033\060\031\006\003\125\004\012\014\022
\102\131\124\105\040\103\157\155\160\165\164\145\162\040\123\056
\101\056\061\056\060\054\006\003\125\004\003\014\045\102\131\124
\105\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\060
\060\061\060\036\027\015\061\064\060\071\061\060\062\062\060\061
\065\064\132\027\015\063\071\060\071\061\060\062\062\060\061\065
\064\132\060\132\061\013\060\011\006\003\125\004\006\023\002\107
\122\061\033\060\031\006\003\125\004\012\014\022\102\131\124\105
\040\103\157\155\160\165\164\145\162\040\123\056\101\056\061\056
\060\054\006\003\125\004\003\014\045\102\131\124\105\040\122\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\040\060\060\061\060\202
\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005
\000\003\202\002\017\000\060\202\002\012\002\202\002\001\000\355
\022\056\027\163\236\157\364\363\231\350\236\010\127\011\064\044
\021\100\037\214\041\176\033\257\070\303\321\307\346\024\345\372
\033\272\136\146\365\045\151\367\355\315\156\202\160\257\272\102
\360\261\031\134\053\374\105\204\030\054\172\027\117\141\205\106
\031\174\316\301\215\237\124\236\167\045\146\017\340\366\370\222
\312\051\316\047\127\025\052\154\202\070\155\047\346\276\115\163
\016\163\257\343\161\075\274\011\102\017\325\015\241\355\175\153
\256\367\301\360\154\315\302\227\241\130\375\065\025\226\027\114
\237\277\365\361\071\113\160\267\347\112\154\034\077\301\160\133
\317\326\213\353\357\157\060\350\137\310\106\167\041\142\026\136
\306\124\105\071\365\164\272\147\044\150\245\161\133\076\301\373
\011\223\353\042\231\370\322\365\173\002\154\217\130\342\253\357
\335\164\041\344\044\151\224\100\326\301\004\030\016\330\102\360
\375\327\212\005\300\137\033\212\353\056\300\015\007\006\163\001
\205\216\037\301\300\212\241\130\246\121\271\130\221\102\017\156
\341\274\012\350\273\050\203\025\165\345\015\376\111\060\051\051
\102\302\302\066\377\244\074\175\056\367\332\362\242\057\026\274
\141\250\231\130\030\244\111\306\152\007\022\353\033\174\264\316
\347\373\041\200\053\160\246\310\316\255\125\036\037\035\204\320
\375\124\152\114\126\143\310\335\176\240\371\071\333\357\174\132
\367\214\065\245\156\052\126\372\376\343\137\223\124\162\016\150
\343\111\053\223\115\065\042\227\024\225\146\117\247\167\072\056
\045\114\366\011\213\022\033\161\305\162\247\233\271\274\353\034
\240\245\311\124\203\141\334\127\125\255\265\346\332\170\053\166
\247\376\370\333\376\214\063\244\212\243\106\134\255\262\012\022

\016\212\344\120\236\360\270\313\231\123\114\144\041\153\212\070
\052\340\210\206\000\324\027\254\146\262\347\276\055\073\051\345
\370\247\224\333\214\130\370\322\113\060\237\362\304\142\145\120
\107\162\200\317\244\160\100\266\275\104\376\331\277\050\053\056
\067\307\263\121\016\202\051\265\261\157\255\176\054\223\300\251
\177\221\372\307\037\065\360\273\227\311\117\141\050\220\204\101
\350\175\041\100\305\311\206\074\355\232\255\205\234\242\123\002
\003\001\000\001\243\143\060\141\060\035\006\003\125\035\016\004
\026\004\024\264\115\146\267\323\263\310\231\174\001\062\320\221
\072\367\326\250\022\061\336\060\017\006\003\125\035\023\001\001
\377\004\005\060\003\001\001\377\060\037\006\003\125\035\043\004
\030\060\026\200\024\264\115\146\267\323\263\310\231\174\001\062
\320\221\072\367\326\250\022\061\336\060\016\006\003\125\035\017
\001\001\377\004\004\003\002\001\006\060\015\006\011\052\206\110
\206\367\015\001\001\013\005\000\003\202\002\001\000\034\032\353
\006\256\125\275\073\077\066\054\141\236\352\307\123\374\160\252
\062\157\344\102\252\353\275\205\354\033\212\132\362\225\226\051
\241\004\006\222\316\044\127\377\100\043\170\116\311\370\060\115
\102\125\104\116\067\242\175\153\216\150\376\016\376\177\337\260
\237\143\121\363\341\305\245\224\237\212\043\050\110\363\101\213
\322\376\170\355\331\320\010\017\155\175\325\235\225\254\325\376
\022\146\032\344\276\165\124\363\321\115\234\116\023\324\236\160
\064\155\250\272\012\063\210\215\255\005\067\376\113\171\177\175
\003\101\171\023\015\237\075\367\070\234\065\132\104\117\076\074
\242\345\201\305\177\137\166\117\033\073\156\157\232\155\267\355
\017\313\062\037\210\264\105\014\234\021\322\370\004\132\023\067
\131\230\201\316\114\364\345\224\050\004\304\265\123\311\124\215
\160\077\150\001\333\314\023\012\344\045\243\154\231\355\020\263
\172\040\251\111\274\005\364\370\033\150\326\272\040\035\202\147
\146\340\260\237\134\312\065\322\105\256\325\210\031\333\172\006
\233\214\240\067\207\121\043\276\105\332\134\263\177\153\317\306
\250\034\063\212\173\035\221\372\236\274\354\175\073\105\025\117
\033\247\073\065\264\171\363\133\202\120\340\234\247\355\026\165
\333\143\200\142\241\332\030\002\152\200\336\202\252\104\115\104
\070\050\252\156\372\030\143\071\140\367\103\051\111\132\272\044
\300\277\263\012\227\035\147\111\132\042\262\147\004\234\130\251
\370\014\064\134\100\226\264\207\265\105\141\031\345\216\357\006
\336\221\025\300\270\212\312\224\311\012\165\175\161\073\130\201
\063\310\367\007\101\125\230\051\103\265\313\232\103\351\162\372
\317\360\213\061\274\347\357\271\152\343\101\235\041\076\015\025
\250\205\275\033\116\207\216\107\262\020\376\067\030\152\204\345
\211\034\024\143\350\271\203\251\265\273\350\143\232\172\031\214
\313\164\367\370\027\010\361\213\031\330\264\354\036\156\111\163
\077\134\040\335\065\052\226\167\351\106\157\026\073\313\251\357
\233\012\041\021\310\303\244\311\043\105\155\077\142\225\235\323
\050\307\235\017\263\376\067\215\035\110\262\120\346\045\271\116
\063\141\066\326\026\034\312\062\067\040\166\034\054
END

```
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Trust for "BYTE Root Certification Authority 001"
# Issuer: CN=BYTE Root Certification Authority 001,O=BYTE Computer S.A.,C=GR
# Serial Number:71:8c:2f:39:7c:40:74:40
# Subject: CN=BYTE Root Certification Authority 001,O=BYTE Computer S.A.,C=GR
# Not Valid Before: Wed Sep 10 22:01:54 2014
# Not Valid After: Sat Sep 10 22:01:54 2039
# Fingerprint (MD5): fa:fb:82:6a:e5:b3:a2:83:50:9b:83:28:b6:41:42:03
# Fingerprint (SHA1): 3f:0f:eb:17:a7:ef:58:04:cf:d9:0a:77:b7:bb:02:1e:a6:9c:64:18
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "BYTE Root Certification Authority 001"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\077\017\353\027\247\357\130\004\317\331\012\167\267\273\002\036
\246\234\144\030
END
CKA_CERT_MD5_HASH
 MULTILINE_OCTAL
\372\373\202\152\345\263\242\203\120\233\203\050\266\101\102\003
END
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\033\060\031\006\003\125\004\012\014\022\102\131\124\105\040\103
\157\155\160\165\164\145\162\040\123\056\101\056\061\056\060\054
\006\003\125\004\003\014\045\102\131\124\105\040\122\157\157\164
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\060\060\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\161\214\057\071\174\100\164\100
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "CISRCA1"
# Issuer: CN=CISRCA1,OU=Certification Authorities,O=Carillon
 Information Security Inc.,C=CA
# Serial Number:0b:82:dc:94:33:76
```

```
# Subject: CN=CISRCA1,OU=Certification Authorities,O=Carillon Information Security Inc.,C=CA
# Not Valid Before: Tue Oct 16 18:28:33 2012
# Not Valid After: Sat Oct 16 18:28:33 2032
# Fingerprint (MD5): 21:48:4b:8f:d5:50:78:27:86:80:c9:86:93:ad:b1:38
# Fingerprint (SHA1): a6:9e:03:36:c4:e5:90:23:ff:65:3c:71:f9:28:eb:73:f2:1c:00:f0
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CISRCA1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\160\061\013\060\011\006\003\125\004\006\023\002\103\101\061
\053\060\051\006\003\125\004\012\023\042\103\141\162\151\154\154
\157\156\040\111\156\146\157\162\155\141\164\151\157\156\040\123
\145\143\165\162\151\164\171\040\111\156\143\056\061\042\060\040
\006\003\125\004\013\023\031\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\151\145\163
\061\020\060\016\006\003\125\004\003\023\007\103\111\123\122\103
\101\061
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\160\061\013\060\011\006\003\125\004\006\023\002\103\101\061
\053\060\051\006\003\125\004\012\023\042\103\141\162\151\154\154
\157\156\040\111\156\146\157\162\155\141\164\151\157\156\040\123
\145\143\165\162\151\164\171\040\111\156\143\056\061\042\060\040
\006\003\125\004\013\023\031\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\151\145\163
\061\020\060\016\006\003\125\004\003\023\007\103\111\123\122\103
\101\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\006\013\202\334\224\063\166
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\242\060\202\003\212\240\003\002\001\002\002\006\013
\202\334\224\063\166\060\015\006\011\052\206\110\206\367\015\001
\001\013\005\000\060\160\061\013\060\011\006\003\125\004\006\023
\002\103\101\061\053\060\051\006\003\125\004\012\023\042\103\141
\162\151\154\154\157\156\040\111\156\146\157\162\155\141\164\151
\157\156\040\123\145\143\165\162\151\164\171\040\111\156\143\056
\061\042\060\040\006\003\125\004\013\023\031\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\151\145\163\061\020\060\016\006\003\125\004\003\023\007\103
\111\123\122\103\101\061\060\036\027\015\061\062\061\060\061\066
\061\070\062\070\063\063\132\027\015\063\062\061\060\061\066\061
```

\070\062\070\063\063\132\060\160\061\013\060\011\006\003\125\004
\006\023\002\103\101\061\053\060\051\006\003\125\004\012\023\042
\103\141\162\151\154\154\157\156\040\111\156\146\157\162\155\141
\164\151\157\156\040\123\145\143\165\162\151\164\171\040\111\156
\143\056\061\042\060\040\006\003\125\004\013\023\031\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\151\145\163\061\020\060\016\006\003\125\004\003\023
\007\103\111\123\122\103\101\061\060\202\002\042\060\015\006\011
\052\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000
\060\202\002\012\002\202\002\001\000\304\166\361\142\152\137\315
\051\315\004\066\177\156\141\176\163\364\235\146\337\042\132\232
\203\104\201\146\375\116\021\260\076\254\350\210\262\123\071\377
\343\272\276\324\377\323\205\330\275\133\257\150\117\063\254\270
\024\175\022\133\172\225\153\307\066\376\053\217\364\210\140\211
\072\252\131\070\114\301\135\125\201\245\337\330\037\061\172\323
\243\116\360\121\313\303\061\207\256\013\336\312\136\033\241\164
\070\360\222\167\161\074\313\023\176\240\301\012\230\275\330\270
\370\124\064\230\116\147\026\232\127\113\046\206\137\033\146\162
\252\301\362\150\202\235\130\101\174\161\042\342\317\001\061\376
\342\340\126\251\150\340\255\063\257\065\071\056\234\156\006\114
\363\043\166\057\151\046\350\005\071\151\267\365\110\032\367\337
\331\071\067\062\125\021\047\004\201\037\235\074\213\214\203\122
\167\301\256\054\315\053\052\112\345\055\361\031\151\272\207\136
\213\235\340\161\310\164\322\315\356\156\070\067\152\135\031\000
\322\166\335\242\353\156\073\252\035\365\066\006\117\137\136\154
\302\020\363\335\157\265\332\171\132\376\325\106\104\064\110\257
\206\000\064\174\044\204\335\105\220\371\026\202\254\250\221\324
\351\106\063\157\176\272\107\037\341\357\257\345\120\326\306\371
\247\355\154\227\252\053\051\116\135\305\370\036\366\164\311\253
\044\370\015\123\307\150\025\276\374\134\253\075\162\013\322\160
\004\267\026\343\151\251\361\147\272\306\000\114\173\200\064\065
\056\136\355\037\240\045\367\245\202\152\020\177\277\217\131\157
\303\106\246\312\102\116\102\043\205\006\071\065\214\265\361\327
\301\043\102\105\375\057\045\161\370\363\007\323\007\150\276\333
\230\154\052\366\245\107\367\260\145\140\255\256\174\346\021\035
\047\124\010\145\260\330\202\300\141\153\351\176\217\042\326\161
\035\153\101\040\145\330\127\232\037\174\016\132\124\340\224\260
\155\165\357\050\062\065\074\125\303\155\147\370\044\275\373\100
\363\132\235\066\331\065\114\273\342\153\331\261\066\017\344\157
\040\032\305\157\172\303\221\071\257\257\314\363\366\275\040\206
\272\323\044\041\074\037\067\051\346\237\374\032\277\230\337\074
\272\040\041\022\251\302\072\052\223\002\003\001\000\001\243\102
\060\100\060\035\006\003\125\035\016\004\026\004\024\352\225\025
\332\134\071\000\342\232\333\304\272\055\147\372\241\367\165\064
\355\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001
\001\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002
\001\306\060\015\006\011\052\206\110\206\367\015\001\001\013\005
\000\003\202\002\001\000\065\320\330\270\236\362\011\370\360\237

\262\156\110\262\327\352\241\233\050\211\071\315\376\026\152\035
\351\234\202\137\121\107\072\365\236\321\274\256\037\237\342\134
\112\310\354\355\106\102\361\174\103\007\025\337\156\227\366\355
\206\374\237\305\010\136\202\016\243\056\250\012\056\274\216\033
\061\022\050\366\171\050\301\042\266\321\225\151\100\350\131\011
\047\242\221\144\166\352\320\023\215\160\374\145\303\157\021\237
\052\110\312\247\142\365\203\024\345\032\026\307\221\213\264\011
\305\316\173\343\344\035\155\227\242\351\313\046\036\153\264\334
\076\203\166\057\136\115\250\150\211\124\375\116\322\106\250\100
\366\330\312\170\317\066\032\075\131\145\214\233\365\053\037\114
\202\337\170\170\115\046\112\107\151\255\157\063\037\003\036\042
\116\331\006\131\236\106\374\120\065\137\306\205\033\344\033\370
\000\311\340\323\072\253\046\103\315\107\372\132\370\205\013\307
\062\332\265\015\055\060\051\072\171\263\024\351\245\017\160\045
\321\215\011\120\224\355\115\222\236\060\067\100\333\132\170\111
\217\017\071\057\275\056\327\253\010\224\311\051\212\367\335\214
\275\202\174\060\133\142\350\065\106\126\070\135\221\366\016\157
\214\356\225\237\375\164\235\355\355\020\253\316\213\217\267\255
\177\115\151\111\360\307\021\125\233\232\202\367\242\372\063\362
\104\021\372\025\113\106\251\233\153\227\102\326\264\267\011\021
\024\171\123\246\347\177\055\047\072\012\064\044\104\316\125\214
\172\200\165\163\002\113\342\372\106\224\175\063\024\015\102\126
\271\240\346\057\205\110\221\237\104\272\241\050\251\261\037\211
\172\046\012\123\134\205\271\174\204\230\214\050\140\245\266\172
\215\075\240\000\075\334\177\252\110\351\250\056\254\137\336\207
\055\134\244\153\026\352\275\350\225\265\316\170\011\370\161\066
\345\220\150\322\007\226\272\274\000\213\016\230\155\115\160\123
\300\303\314\033\023\234\110\232\231\075\022\300\047\216\141\222
\114\150\122\157\215\003\034\211\365\323\206\300\377\161\111\117
\040\153\375\321\157\221\044\365\361\107\043\115\131\337\320\275
\111\102\375\100\070\076\342\361\005\134\045\350\020\344\132\002
\003\343\273\174\045\052
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "CISRCA1"
Issuer: CN=CISRCA1,OU=Certification Authorities,O=Carillon Information Security Inc.,C=CA
Serial Number:0b:82:dc:94:33:76
Subject: CN=CISRCA1,OU=Certification Authorities,O=Carillon Information
 Security Inc.,C=CA
Not Valid Before: Tue Oct 16 18:28:33 2012
Not Valid After: Sat Oct 16 18:28:33 2032
Fingerprint (MD5): 21:48:4b:8f:d5:50:78:27:86:80:c9:86:93:ad:b1:38
Fingerprint (SHA1): a6:9e:03:36:c4:e5:90:23:ff:65:3c:71:f9:28:eb:73:f2:1c:00:f0

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CISRCA1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\246\236\003\066\304\345\220\043\377\145\074\161\371\050\353\163
\362\034\000\360
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\041\110\113\217\325\120\170\047\206\200\311\206\223\255\261\070
END
CKA_ISSUER MULTILINE_OCTAL
\060\160\061\013\060\011\006\003\125\004\006\023\002\103\101\061
\053\060\051\006\003\125\004\012\023\042\103\141\162\151\154\154
\157\156\040\111\156\146\157\162\155\141\164\151\157\156\040\123
\145\143\165\162\151\164\171\040\111\156\143\056\061\042\060\040
\006\003\125\004\013\023\031\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\151\145\163
\061\020\060\016\006\003\125\004\003\023\007\103\111\123\122\103
\101\061
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\006\013\202\334\224\063\166
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "ePKI Root Certification Authority - G2"
# Issuer: CN=ePKI Root Certification Authority - G2,O=Chunghwa Telecom Co.\, Ltd.,C=TW
# Serial Number:d6:96:2e:c1:0a:15:93:12:af:8f:63:bc:d4:44:c9:5b
# Subject: CN=ePKI Root Certification Authority - G2,O=Chunghwa Telecom Co.\, Ltd.,C=TW
# Not Valid Before: Tue Nov 17 08:23:42 2015
# Not Valid After: Thu Dec 31 15:59:59 2037
# Fingerprint (MD5): 7d:f0:01:73:ed:fc:31:9d:16:86:7b:35:c7:26:dd:72
# Fingerprint (SHA1): d9:9b:10:42:98:59:47:63:f0:b9:a9:27:b7:92:69:cb:47:dd:15:8b
CKA_CLASS
 CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ePKI Root Certification Authority - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
```

\060\143\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150
\167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040
\114\164\144\056\061\057\060\055\006\003\125\004\003\014\046\145
\120\113\111\040\122\157\157\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
\040\055\040\107\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\143\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150
\167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040
\114\164\144\056\061\057\060\055\006\003\125\004\003\014\046\145
\120\113\111\040\122\157\157\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
\040\055\040\107\062
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\021\000\326\226\056\301\012\025\223\022\257\217\143\274\324
\104\311\133
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\223\060\202\003\173\240\003\002\001\002\002\021\000
\326\226\056\301\012\025\223\022\257\217\143\274\324\104\311\133
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\143\061\013\060\011\006\003\125\004\006\023\002\124\127\061\043
\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150\167
\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040\114
\164\144\056\061\057\060\055\006\003\125\004\003\014\046\145\120
\113\111\040\122\157\157\164\040\103\145\162\164\151\146\151\143
\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040
\055\040\107\062\060\036\027\015\061\065\061\061\061\067\060\070
\062\063\064\062\132\027\015\063\067\061\062\063\061\061\065\065
\071\065\071\132\060\143\061\013\060\011\006\003\125\004\006\023
\002\124\127\061\043\060\041\006\003\125\004\012\014\032\103\150
\165\156\147\150\167\141\040\124\145\154\145\143\157\155\040\103
\157\056\054\040\114\164\144\056\061\057\060\055\006\003\125\004
\003\014\046\145\120\113\111\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171\040\055\040\107\062\060\202\002\042\060\015\006
\011\052\206\110\206\367\015\001\001\001\005\000\003\202\002\017
\000\060\202\002\012\002\202\002\001\000\244\131\037\240\057\337
\276\340\373\351\334\265\211\376\132\227\003\311\072\167\247\216
\134\257\362\343\030\071\365\252\335\017\106\322\150\017\127\234
\247\143\140\323\130\316\065\302\247\366\210\302\117\177\033\050
\351\320\247\000\304\027\115\155\342\017\305\016\046\043\040\253

\367\072\050\242\114\012\013\314\216\316\346\000\232\132\100\015
\324\120\032\233\321\015\234\224\371\333\356\134\320\361\212\007
\315\232\053\100\054\111\244\135\142\137\247\153\337\356\126\010
\120\363\102\030\154\061\260\136\345\234\163\222\274\016\322\014
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\116\126\153\333\255\241\061\331\314\042\147\226\170\377\167\235
\314\144\305\062\040\152\357\116\060\325\044\045\375\210\171\257
\161\032\376\325\113\033\025\210\274\030\160\252\275\255\070\012
\146\060\106\345\211\205\325\166\044\251\251\263\346\131\140\017
\264\251\123\302\072\235\105\032\326\256\343\167\136\304\142\066
\063\057\060\304\277\225\361\055\070\245\165\350\321\152\223\056
\105\207\113\112\242\337\277\130\047\232\312\142\031\252\136\324
\261\200\111\226\335\053\354\137\217\233\340\235\227\210\365\204
\003\243\257\263\245\163\055\101\272\345\007\267\157\153\161\367
\367\311\132\257\151\231\263\057\310\117\102\353\154\153\161\147
\170\337\012\254\117\327\112\205\000\106\032\325\315\270\237\352
\225\235\017\174\321\306\005\205\346\010\336\210\027\201\366\325
\265\156\352\241\034\327\141\252\343\131\102\211\234\131\176\261
\174\144\064\335\141\043\052\071\265\020\253\374\206\251\123\032
\305\353\152\342\200\116\131\221\300\070\211\376\263\135\326\373
\221\351\327\260\175\331\170\010\314\365\053\314\053\341\241\326
\224\163\301\376\121\364\214\175\012\265\232\212\271\365\332\340
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\240\332\124\341\171\214\211\353\177\365\202\347\240\271\167\115
\256\371\272\002\073\210\166\353\174\135\263\132\023\333\174\051
\026\153\231\321\035\344\110\041\242\015\136\001\210\350\276\361
\230\115\076\307\026\127\034\137\341\010\157\034\114\130\103\126
\367\200\145\214\161\016\242\004\147\117\002\003\001\000\001\243
\102\060\100\060\017\006\003\125\035\023\001\001\377\004\005\060
\003\001\001\377\060\035\006\003\125\035\016\004\026\004\024\162
\133\272\252\162\070\356\045\220\044\265\224\042\372\011\210\312
\213\012\373\060\016\006\003\125\035\017\001\001\377\004\004\003
\002\001\006\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\003\202\002\001\000\006\243\361\266\163\125\306\147\146
\041\345\235\133\326\224\056\112\042\140\362\124\001\220\241\375
\265\277\300\225\277\030\137\054\366\153\065\016\374\061\310\355
\104\016\222\227\334\257\335\126\317\265\037\272\162\234\060\310
\233\261\221\300\166\167\324\017\032\225\032\351\115\024\210\241
\317\153\002\246\152\353\144\105\115\144\215\336\374\353\154\362
\123\011\241\205\121\025\320\117\236\142\372\021\271\316\310\044
\016\162\144\210\165\064\043\060\052\077\274\074\071\314\314\335
\013\066\273\275\006\202\217\022\001\305\161\005\321\044\241\231
\154\312\344\367\252\355\212\327\247\012\255\257\360\340\200\273
\241\262\077\132\207\144\160\206\063\173\015\036\327\000\206\203
\103\227\165\365\073\301\110\375\266\016\103\250\002\156\270\076
\177\217\116\342\135\264\175\236\060\064\057\250\361\353\047\207
\150\015\132\012\115\001\333\311\024\130\225\362\232\115\026\252
\163\333\364\045\210\027\070\267\257\131\011\011\264\037\055\017

\253\365\270\047\125\356\105\060\063\270\355\033\216\274\210\154
\257\370\132\052\153\340\254\261\005\044\241\011\374\243\017\363
\260\055\173\226\272\266\224\007\025\105\216\051\334\130\016\251
\005\330\073\072\240\173\315\212\307\146\202\227\317\326\063\340
\147\374\246\333\100\057\005\345\305\213\172\052\172\360\260\066
\233\014\030\366\067\351\101\241\375\261\050\371\157\153\275\353
\037\114\143\161\173\120\335\051\362\377\356\367\307\105\137\350
\066\012\350\154\133\042\303\350\300\347\046\334\343\250\225\200
\345\271\072\023\333\000\113\032\375\256\063\107\176\170\224\343
\261\135\053\265\126\265\102\213\237\201\305\374\223\114\020\265
\272\012\274\176\067\343\372\124\155\365\004\305\160\263\251\004
\322\121\327\205\315\175\157\103\217\131\150\345\061\126\021\161
\371\144\051\011\023\376\320\037\274\213\000\070\262\320\312\064
\126\166\020\071\126\163\146\303\321\111\331\276\127\117\077\026
\175\152\170\267\250\202\270\133\316\256\205\212\012\102\014\003
\321\027\304\030\367\330\127\210\306\202\270\007\271\076\375\244
\351\056\334\157\272\220\222\356\145\260\120\064\323\007\332\001
\227\017\274\347\163\202\173
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "ePKI Root Certification Authority - G2"
Issuer: CN=ePKI Root Certification Authority - G2,O=Chunghwa Telecom Co.\, Ltd.,C=TW
Serial Number:d6:96:2e:c1:0a:15:93:12:af:8f:63:bc:d4:44:c9:5b
Subject: CN=ePKI Root Certification Authority - G2,O=Chunghwa Telecom Co.\, Ltd.,C=TW
Not Valid Before: Tue Nov 17 08:23:42 2015
Not Valid After: Thu Dec 31 15:59:59 2037
Fingerprint (MD5): 7d:f0:01:73:ed:fc:31:9d:16:86:7b:35:c7:26:dd:72
Fingerprint (SHA1): d9:9b:10:42:98:59:47:63:f0:b9:a9:27:b7:92:69:cb:47:dd:15:8b
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ePKI Root Certification Authority
 - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\331\233\020\102\230\131\107\143\360\271\251\047\267\222\151\313
\107\335\025\213
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\175\360\001\163\355\374\061\235\026\206\173\065\307\046\335\162
END
CKA_ISSUER MULTILINE_OCTAL
\060\143\061\013\060\011\006\003\125\004\006\023\002\124\127\061

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\043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150
\167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040
\114\164\144\056\061\057\060\055\006\003\125\004\003\014\046\145
\120\113\111\040\122\157\157\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
\040\055\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\326\226\056\301\012\025\223\022\257\217\143\274\324
\104\311\133
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL
 CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "SSL.com EV Root Certification Authority RSA"
# Issuer: CN=SSL.com EV Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number:1d:6c:11:eb:6f:da:39:9d
# Subject: CN=SSL.com EV Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid Before: Fri Feb 12 17:50:48 2016
# Not Valid After: Tue Feb 12 17:50:48 2041
# Fingerprint (MD5): ad:b7:7b:b6:c4:5a:d9:dd:9f:eb:b3:ef:3f:c6:31:31
# Fingerprint (SHA1): 1c:b7:ed:e1:76:bc:df:ef:0c:86:6f:46:fb:f9:80:e9:01:e5:ce:35
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com EV Root Certification Authority RSA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\177\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\064\060\062\006
\003\125\004\003\014\053\123\123\114\056\143\157\155\040\105\126
\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\040\122\123
\101
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\177\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
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\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\064\060\062\006
\003\125\004\003\014\053\123\123\114\056\143\157\155\040\105\126
\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\040\122\123
\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\035\154\021\353\157\332\071\235
END
CKA_VALUE
MULTILINE_OCTAL
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\154\021\353\157\332\071\235\060\015\006\011\052\206\110\206\367
\015\001\001\013\005\000\060\177\061\013\060\011\006\003\125\004
\006\023\002\125\123\061\016\060\014\006\003\125\004\010\014\005
\124\145\170\141\163\061\020\060\016\006\003\125\004\007\014\007
\110\157\165\163\164\157\156\061\030\060\026\006\003\125\004\012
\014\017\123\123\114\040\103\157\162\160\157\162\141\164\151\157
\156\061\064\060\062\006\003\125\004\003\014\053\123\123\114\056
\143\157\155\040\105\126\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171\040\122\123\101\060\036\027\015\061\066\060\062\061
\062\061\067\065\060\064\070\132\027\015\064\061\060\062\061\062
\061\067\065\060\064\070\132\060\177\061\013\060\011\006\003\125
\004\006\023\002\125\123\061\016\060\014\006\003\125\004\010\014
\005\124\145\170\141\163\061\020\060\016\006\003\125\004\007\014
\007\110\157\165\163\164\157\156\061\030\060\026\006\003\125\004
\012\014\017\123\123\114\040\103\157\162\160\157\162\141\164\151
\157\156\061\064\060\062\006\003\125\004\003\014\053\123\123\114
\056\143\157\155\040\105\126\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171\040\122\123\101\060\202\002\042\060\015\006\011
\052\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000
\060\202\002\012\002\202\002\001\000\306\067\174\023\157\317\017
\331\120\317\346\327\252\150\057\134\121\324\277\315\114\246\325
\067\061\100\020\064\101\172\375\313\224\215\142\177\270\220\315
\316\151\226\072\304\377\331\327\143\346\320\204\045\200\021\277
\321\355\060\350\204\006\341\240\227\270\125\220\035\255\363\244
\232\033\116\234\021\367\365\331\326\217\140\052\076\067\370\165
\354\200\243\125\240\364\047\101\302\252\071\344\122\337\020\371
\365\145\071\077\214\235\314\173\047\317\006\024\167\116\075\122
\347\204\201\061\154\022\062\254\204\132\027\152\304\301\134\200
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\217\213\145\130\051\054\217\016\216\111\324\324\330\012\132\323
\046\323\011\216\330\103\262\224\117\322\300\034\335\164\142\021
\151\274\124\042\350\072\036\320\125\126\105\217\160\160\215\057

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\215\020\363\245\127\341\153\253\030\113\216\256\056\361\362\272
\365\135\101\367\071\330\243\302\135\336\237\132\261\057\104\223
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\052\126\046\255\051\127\270\161\344\177\353\023\262\310\175\365
\153\135\363\362\000\060\063\372\133\313\022\152\172\101\157\157
\011\114\267\151\015\017\171\043\043\032\146\215\131\066\143\226
\200\173\030\042\153\036\042\030\055\344\245\165\012\020\131\373
\243\176\046\020\123\306\310\031\056\036\047\030\373\060\005\075
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\147\151\345\105\321\126\250\233\277\257\372\254\125\010\014\002
\176\113\167\254\067\301\330\355\231\064\240\101\263\065\072\353
\061\064\311\073\337\304\075\051\105\065\124\270\177\226\317\010
\017\351\261\236\125\312\147\204\240\047\140\253\372\120\061\071
\325\173\312\266\232\355\221\214\170\036\371\356\340\342\131\101
\324\037\102\200\171\365\364\203\120\010\255\363\107\101\137\120
\243\237\211\363\264\047\052\124\271\032\131\153\011\234\121\300
\050\153\133\270\050\322\157\065\176\325\223\003\156\164\045\145
\352\026\005\221\001\361\007\143\117\253\204\305\162\331\315\150
\233\115\054\176\004\070\360\352\107\002\003\001\000\001\243\143
\060\141\060\035\006\003\125\035\016\004\026\004\024\331\132\052
\377\245\316\235\241\221\175\377\207\135\253\152\065\022\331\311
\114\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001
\001\377\060\037\006\003\125\035\043\004\030\060\026\200\024\331
\132\052\377\245\316\235\241\221\175\377\207\135\253\152\065\022
\331\311\114\060\016\006\003\125\035\017\001\001\377\004\004\003
\002\001\206\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\003\202\002\001\000\274\214\317\043\372\275\063\127\226
\037\320\202\360\022\256\064\104\352\361\274\041\327\365\211\306
\064\036\170\246\342\121\337\335\170\200\325\352\155\306\252\157
\011\002\214\247\346\313\310\211\132\224\172\112\263\126\357\335
\335\123\062\143\360\151\357\335\100\271\220\242\056\003\167\226
\265\051\000\122\356\373\016\247\224\150\305\074\003\055\351\153
\252\235\356\247\330\147\222\342\021\132\070\337\230\146\243\240
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\052\010\233\122\303\034\137\220\064\127\373\306\371\035\161\374
\045\174\317\172\175\036\151\306\273\364\024\376\035\035\347\227
\242\206\233\362\337\127\222\006\122\144\223\051\131\012\057\241
\027\334\273\356\255\073\263\000\145\070\331\250\234\201\255\315
\065\234\213\351\342\364\204\217\016\317\215\161\155\000\200\071
\157\263\004\065\240\070\141\251\362\057\364\065\215\330\337\336
\244\151\060\372\240\046\174\132\042\171\360\150\376\313\315\274
\357\225\214\047\345\204\371\375\204\102\306\272\375\271\311\306
\132\161\060\166\066\002\037\320\174\251\023\016\341\040\331\122
\014\254\036\210\167\240\051\206\072\210\146\123\257\303\245\311
\333\124\261\244\350\356\114\156\077\271\173\060\243\102\350\002
\246\275\204\155\052\174\375\364\355\105\267\060\372\154\134\043
\126\132\074\141\052\307\233\346\305\362\104\267\007\277\166\235

\102\344\134\360\356\271\076\020\363\317\122\322\315\316\122\030
\177\140\366\056\225\114\065\000\114\106\326\020\354\064\313\130
\173\152\015\344\143\125\314\130\331\117\143\147\061\302\122\241
\171\017\052\317\311\116\314\022\313\215\032\132\252\106\061\023
\073\015\351\127\150\132\013\204\004\066\057\237\021\274\074\172
\255\132\277\106\343\267\040\211\035\334\007\174\334\172\353\351
\166\311\000\015\160\267\237\227\032\142\357\030\346\144\276\010
\247\244\231\273\177\214\150\232\230\311\206\142\366\241\230\066
\071\243\363\226\127\244\002\143\371\125\076\260\214\237\277\251
\172\113\074\331\271\256\017\212\364\272\034\045\253\125\131\241
\126\302\063\271\072\304\100\317\213\032\367\003\016\275\033\140
\143\175\045\324\251\276\345
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "SSL.com EV Root Certification Authority RSA"
Issuer: CN=SSL.com EV Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
Serial Number:1d:6c:11:eb:6f:da:39:9d
Subject: CN=SSL.com EV Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
Not Valid Before: Fri Feb 12 17:50:48 2016
Not Valid After: Tue Feb 12 17:50:48 2041
Fingerprint (MD5): ad:b7:7b:b6:c4:5a:d9:dd:9f:eb:b3:ef:3f:c6:31:31
Fingerprint (SHA1): 1c:b7:ed:e1:76:bc:df:ef:0c:86:6f:46:fb:f9:80:e9:01:e5:ce:35
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE
CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com EV Root Certification Authority RSA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\034\267\355\341\166\274\337\357\014\206\157\106\373\371\200\351
\001\345\316\065
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\255\267\173\266\304\132\331\335\237\353\263\357\077\306\061\061
END
CKA_ISSUER MULTILINE_OCTAL
\060\177\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\064\060\062\006
\003\125\004\003\014\053\123\123\114\056\143\157\155\040\105\126
\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164

```
\151\157\156\040\101\165\164\150\157\162\151\164\171\040\122\123
\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\035\154\021\353\157\332\071\235
END
CKA_TRUST_SERVER_AUTH
 CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "LuxTrust Global Root 2"
# Issuer: CN=LuxTrust Global Root 2,O=LuxTrust S.A.,C=LU
# Serial Number:0a:7e:a6:df:4b:44:9e:da:6a:24:85:9e:e6:b8:15:d3:16:7f:bb:b1
# Subject: CN=LuxTrust Global Root 2,O=LuxTrust S.A.,C=LU
# Not Valid Before: Thu Mar 05 13:21:57 2015
# Not Valid After: Mon Mar 05 13:21:57 2035
# Fingerprint (MD5): b2:e1:09:00:61:af:f7:f1:91:6f:c4:ad:8d:5e:3b:7c
# Fingerprint (SHA1): 1e:0e:56:19:0a:d1:8b:25:98:b2:04:44:ff:66:8a:04:17:99:5f:3f
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "LuxTrust Global Root 2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\106\061\013\060\011\006\003\125\004\006\023\002\114\125\061
\026\060\024\006\003\125\004\012\014\015\114\165\170\124\162\165
\163\164\040\123\056\101\056\061\037\060\035\006\003\125\004\003
\014\026\114\165\170\124\162\165\163\164\040\107\154\157\142\141
\154\040\122\157\157\164\040\062
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\106\061\013\060\011\006\003\125\004\006\023\002\114\125\061
\026\060\024\006\003\125\004\012\014\015\114\165\170\124\162\165
\163\164\040\123\056\101\056\061\037\060\035\006\003\125\004\003
\014\026\114\165\170\124\162\165\163\164\040\107\154\157\142\141
\154\040\122\157\157\164\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\012\176\246\337\113\104\236\332\152\044\205\236\346\270
\025\323\026\177\273\261
END
CKA_VALUE MULTILINE_OCTAL
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\060\202\005\303\060\202\003\253\240\003\002\001\002\002\024\012
\176\246\337\113\104\236\332\152\044\205\236\346\270\025\323\026
\177\273\261\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\060\106\061\013\060\011\006\003\125\004\006\023\002\114
\125\061\026\060\024\006\003\125\004\012\014\015\114\165\170\124
\162\165\163\164\040\123\056\101\056\061\037\060\035\006\003\125
\004\003\014\026\114\165\170\124\162\165\163\164\040\107\154\157
\142\141\154\040\122\157\157\164\040\062\060\036\027\015\061\065
\060\063\060\065\061\063\062\061\065\067\132\027\015\063\065\060
\063\060\065\061\063\062\061\065\067\132\060\106\061\013\060\011
\006\003\125\004\006\023\002\114\125\061\026\060\024\006\003\125
\004\012\014\015\114\165\170\124\162\165\163\164\040\123\056\101
\056\061\037\060\035\006\003\125\004\003\014\026\114\165\170\124
\162\165\163\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\062\060\202\002\042\060\015\006\011\052\206\110\206\367\015
\001\001\001\005\000\003\202\002\017\000\060\202\002\012\002\202
\002\001\000\327\205\227\277\021\230\351\360\142\203\114\074\207
\371\123\152\067\013\362\017\074\207\316\157\334\046\051\275\305
\211\272\311\203\075\367\356\312\133\306\155\111\163\264\311\106
\243\033\064\023\077\301\211\105\127\364\331\261\373\066\145\113
\373\010\342\110\161\021\310\156\073\236\235\337\211\145\067\246
\205\366\073\104\030\266\306\067\060\142\104\222\227\151\175\102
\060\044\344\015\014\211\153\143\336\305\341\337\116\251\024\154
\123\340\141\316\366\027\057\035\074\275\346\042\114\035\223\365
\020\304\241\166\354\152\336\305\154\337\226\264\126\100\102\300
\142\222\060\241\055\025\224\240\322\040\006\011\156\152\155\345
\353\267\276\324\360\361\025\174\213\346\116\272\023\314\113\047
\136\231\074\027\135\217\201\177\063\075\117\323\077\033\354\134
\077\360\074\114\165\156\362\246\325\235\332\055\007\143\002\306
\162\351\224\274\114\111\225\117\210\122\310\333\350\151\202\370
\314\064\133\042\360\206\247\211\275\110\012\155\146\201\155\310
\310\144\373\001\341\364\341\336\331\236\335\333\133\324\052\231
\046\025\033\036\114\222\051\202\236\325\222\201\222\101\160\031
\367\244\345\223\113\274\167\147\061\335\034\375\061\160\015\027
\231\014\371\014\071\031\052\027\265\060\161\125\325\017\256\130
\341\075\057\064\233\317\237\366\170\205\302\223\172\162\076\146
\217\234\026\021\140\217\236\211\157\147\276\340\107\132\073\014
\232\147\213\317\106\306\256\070\243\362\247\274\346\326\205\153
\063\044\160\042\113\313\010\233\273\310\370\002\051\035\276\040
\014\106\277\153\207\233\263\052\146\102\065\106\154\252\272\255
\371\230\173\351\120\125\024\061\277\261\332\055\355\200\255\150
\044\373\151\253\330\161\023\060\346\147\263\207\100\375\211\176
\362\103\321\021\337\057\145\057\144\316\137\024\271\261\277\061
\275\207\170\132\131\145\210\252\374\131\062\110\206\326\114\271
\051\113\225\323\166\363\167\045\155\102\034\070\203\115\375\243
\137\233\177\055\254\171\033\016\102\061\227\143\244\373\212\151
\325\042\015\064\220\060\056\250\264\340\155\266\224\254\274\213
\116\327\160\374\305\070\216\144\045\341\115\071\220\316\311\207

\204\130\161\002\003\001\000\001\243\201\250\060\201\245\060\017
\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060
\102\006\003\125\035\040\004\073\060\071\060\067\006\007\053\201
\053\001\001\001\012\060\054\060\052\006\010\053\006\001\005\005
\007\002\001\026\036\150\164\164\160\163\072\057\057\162\145\160
\157\163\151\164\157\162\171\056\154\165\170\164\162\165\163\164
\056\154\165\060\016\006\003\125\035\017\001\001\377\004\004\003
\002\001\006\060\037\006\003\125\035\043\004\030\060\026\200\024
\377\030\050\166\371\110\005\054\241\256\361\053\033\053\262\123
\370\113\174\263\060\035\006\003\125\035\016\004\026\004\024\377
\030\050\166\371\110\005\054\241\256\361\053\033\053\262\123\370
\113\174\263\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\003\202\002\001\000\152\031\024\355\156\171\301\054\207
\324\015\160\176\327\366\170\311\013\004\116\304\261\316\223\160
\376\260\124\300\062\315\231\060\144\027\277\017\345\342\063\375
\007\066\100\162\016\032\266\152\131\326\000\345\150\040\335\056
\162\015\037\152\144\061\040\204\175\111\246\132\067\353\105\311
\205\365\324\307\027\231\007\346\233\125\344\014\350\251\264\316
\214\133\265\021\134\317\212\016\015\326\254\167\201\376\062\234
\044\236\162\316\124\363\320\157\242\126\326\354\303\067\054\145
\130\276\127\000\032\362\065\372\353\173\061\135\302\301\022\075
\226\201\210\226\211\301\131\134\172\346\177\160\064\347\203\342
\261\341\341\270\130\357\324\225\344\140\234\360\226\227\162\214
\353\204\002\056\145\217\244\267\322\177\147\335\310\323\236\134
\252\251\244\240\045\024\006\233\354\117\176\055\013\177\035\165
\361\063\330\355\316\270\165\155\076\133\271\230\035\061\015\126
\330\103\017\060\221\262\004\153\335\126\276\225\200\125\147\276
\330\315\203\331\030\356\056\017\206\055\222\236\160\023\354\336
\121\311\103\170\002\245\115\310\371\137\304\221\130\106\026\167
\132\164\252\100\274\007\237\060\271\261\367\022\027\335\343\377
\044\100\035\172\152\321\117\030\012\252\220\035\353\100\036\337
\241\036\104\222\020\232\362\215\341\321\113\106\236\350\105\102
\227\352\105\231\363\354\146\325\002\372\362\246\112\044\252\336
\316\271\312\371\077\223\157\371\243\272\352\245\076\231\255\375
\377\173\231\365\145\356\360\131\050\147\327\220\225\244\023\204
\251\204\301\350\316\316\165\223\143\032\274\074\352\325\144\037
\055\052\022\071\306\303\132\062\355\107\221\026\016\274\070\301
\120\336\217\312\052\220\064\034\356\101\224\234\136\031\056\370
\105\111\231\164\221\260\004\157\343\004\132\261\253\052\253\376
\307\320\226\266\332\341\112\144\006\156\140\115\275\102\116\377
\170\332\044\312\033\264\327\226\071\154\256\361\016\252\247\175
\110\213\040\114\317\144\326\270\227\106\260\116\321\052\126\072
\240\223\275\257\200\044\340\012\176\347\312\325\312\350\205\125
\334\066\052\341\224\150\223\307\146\162\104\017\200\041\062\154
\045\307\043\200\203\012\353
END
CKA_NSS_MOZILLA_CA_POLICY

```
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Trust for "LuxTrust Global Root 2"
# Issuer:
 CN=LuxTrust Global Root 2,O=LuxTrust S.A.,C=LU
# Serial Number:0a:7e:a6:df:4b:44:9e:da:6a:24:85:9e:e6:b8:15:d3:16:7f:bb:b1
# Subject: CN=LuxTrust Global Root 2,O=LuxTrust S.A.,C=LU
# Not Valid Before: Thu Mar 05 13:21:57 2015
# Not Valid After: Mon Mar 05 13:21:57 2035
# Fingerprint (MD5): b2:e1:09:00:61:af:f7:f1:91:6f:c4:ad:8d:5e:3b:7c
# Fingerprint (SHA1): 1e:0e:56:19:0a:d1:8b:25:98:b2:04:44:ff:66:8a:04:17:99:5f:3f
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "LuxTrust Global Root 2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\036\016\126\031\012\321\213\045\230\262\004\104\377\146\212\004
\027\231\137\077
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\262\341\011\000\141\257\367\361\221\157\304\255\215\136\073\174
END
CKA_ISSUER MULTILINE_OCTAL
\060\106\061\013\060\011\006\003\125\004\006\023\002\114\125\061
\026\060\024\006\003\125\004\012\014\015\114\165\170\124\162\165
\163\164\040\123\056\101\056\061\037\060\035\006\003\125\004\003
\014\026\114\165\170\124\162\165\163\164\040\107\154\157\142\141
\154\040\122\157\157\164\040\062
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\024\012\176\246\337\113\104\236\332\152\044\205\236\346\270
\025\323\026\177\273\261
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "ACA ROOT"
# Issuer: CN=ACA ROOT,O=CONSEJO GENERAL DE LA ABOGACIA,2.5.4.5=Q2863006I,C=ES
# Serial Number:47:43:91:24:3f:ce:c3:0d:57:48:28:6b:ee:80:5d:ab
# Subject: CN=ACA ROOT,O=CONSEJO GENERAL DE LA ABOGACIA,2.5.4.5=Q2863006I,C=ES
```

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# Not Valid Before: Fri May 27 10:58:51 2016
# Not Valid After: Mon May 27 10:58:51 2041
# Fingerprint (MD5): cc:49:10:f6:2f:f5:db:be:2f:8c:51:f3:8f:74:7c:12
# Fingerprint (SHA1): d4:96:59:2b:30:57:07:38:6c:c5:f3:cd:b2:59:ae:66:d7:66:1f:ca
CKA_CLASS
 CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ACA ROOT"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\135\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\022\060\020\006\003\125\004\005\023\011\121\062\070\066\063\060
\060\066\111\061\047\060\045\006\003\125\004\012\014\036\103\117
\116\123\105\112\117\040\107\105\116\105\122\101\114\040\104\105
\040\114\101\040\101\102\117\107\101\103\111\101\061\021\060\017
\006\003\125\004\003\014\010\101\103\101\040\122\117\117\124
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\135\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\022\060\020\006\003\125\004\005\023\011\121\062\070\066\063\060
\060\066\111\061\047\060\045\006\003\125\004\012\014\036\103\117
\116\123\105\112\117\040\107\105\116\105\122\101\114\040\104\105
\040\114\101\040\101\102\117\107\101\103\111\101\061\021\060\017
\006\003\125\004\003\014\010\101\103\101\040\122\117\117\124
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\107\103\221\044\077\316\303\015\127\110\050\153\356\200
\135\253
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\310\060\202\003\260\240\003\002\001\002\002\020\107
\103\221\044\077\316\303\015\127\110\050\153\356\200\135\253\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\135
\061\013\060\011\006\003\125\004\006\023\002\105\123\061\022\060
\020\006\003\125\004\005\023\011\121\062\070\066\063\060\060\066
\111\061\047\060\045\006\003\125\004\012\014\036\103\117\116\123
\105\112\117\040\107\105\116\105\122\101\114\040\104\105\040\114
\101\040\101\102\117\107\101\103\111\101\061\021\060\017\006\003
\125\004\003\014\010\101\103\101\040\122\117\117\124\060\036\027
\015\061\066\060\065\062\067\061\060\065\070\065\061\132\027\015
\064\061\060\065\062\067\061\060\065\070\065\061\132\060\135\061
\013\060\011\006\003\125\004\006\023\002\105\123\061\022\060\020
\006\003\125\004\005\023\011\121\062\070\066\063\060\060\066\111
\061\047\060\045\006\003\125\004\012\014\036\103\117\116\123\105
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\112\117\040\107\105\116\105\122\101\114\040\104\105\040\114\101
\040\101\102\117\107\101\103\111\101\061\021\060\017\006\003\125
\004\003\014\010\101\103\101\040\122\117\117\124\060\202\002\042
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\002\017\000\060\202\002\012\002\202\002\001\000\271\053\136
\365\076\272\211\036\235\365\321\023\317\273\243\136\272\351\337
\071\162\144\230\122\207\151\245\266\336\341\277\224\105\276\305
\370\244\123\147\025\120\334\122\117\052\166\054\056\215\040\152
\214\346\135\271\331\150\276\221\033\272\151\003\030\255\030\116
\066\242\254\106\253\040\370\003\152\252\255\171\325\337\035\301
\356\105\157\041\164\371\115\261\261\075\220\073\074\062\200\355
\377\025\317\121\312\327\244\207\056\252\345\016\266\321\172\132
\307\271\370\121\273\331\224\335\076\306\206\116\012\376\073\211
\362\370\156\044\316\221\003\130\005\022\112\335\120\253\101\172
\316\355\251\037\021\123\036\245\023\333\141\360\365\252\200\336
\164\171\035\244\343\051\326\373\340\374\227\332\242\270\253\042
\076\145\260\041\304\345\305\020\104\207\262\343\340\052\202\056
\175\346\364\270\244\023\045\363\167\140\137\143\123\256\056\261
\235\212\153\166\173\072\161\275\222\201\066\260\234\202\361\367
\305\211\050\135\377\274\102\006\263\010\152\117\141\315\244\055
\220\323\071\270\167\377\310\307\243\171\273\003\271\221\003\001
\064\022\330\060\213\266\214\002\312\344\110\354\070\052\062\114
\155\312\166\050\132\206\012\272\324\040\216\257\240\137\040\055
\142\234\210\371\361\025\155\133\275\261\003\120\300\077\066\327
\256\077\121\321\312\343\130\146\104\346\243\233\167\056\061\372
\331\177\042\304\005\114\353\164\033\134\143\172\246\002\223\176
\103\016\166\024\017\115\157\062\225\210\200\222\122\227\024\365
\074\374\224\007\323\154\051\005\225\106\017\344\161\341\177\370
\155\024\022\202\222\265\363\123\076\231\021\227\107\166\112\011
\162\356\324\303\226\011\254\332\377\361\113\113\266\327\045\317
\036\114\227\046\013\064\273\266\224\361\054\144\161\137\211\362
\025\073\067\247\002\344\015\117\110\211\063\243\214\150\170\061
\121\147\012\031\333\264\342\164\057\075\172\363\167\000\237\161
\022\143\377\163\052\144\151\124\354\254\072\256\332\362\130\143
\064\176\370\074\136\300\102\072\245\333\263\250\324\132\301\116
\130\270\151\266\254\202\142\333\321\373\032\103\041\042\374\035
\365\234\117\116\073\345\215\377\166\132\043\136\133\002\003\001
\000\001\243\201\203\060\201\200\060\017\006\003\125\035\023\001
\001\377\004\005\060\003\001\001\377\060\016\006\003\125\035\017
\001\001\377\004\004\003\002\001\006\060\035\006\003\125\035\016
\004\026\004\024\032\125\344\025\061\342\061\233\021\324\210\161
\172\000\075\160\050\005\277\315\060\076\006\003\125\035\040\004
\067\060\065\060\063\006\004\125\035\040\000\060\053\060\051\006
\010\053\006\001\005\005\007\002\001\026\035\150\164\164\160\072
\057\057\167\167\167\056\141\143\141\142\157\147\141\143\151\141
\056\157\162\147\057\144\157\143\060\015\006\011\052\206\110\206
\367\015\001\001\013\005\000\003\202\002\001\000\173\060\312\125
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\060\011\344\302\123\075\364\251\267\150\055\115\231\315\244\317
\236\073\220\235\232\012\051\015\052\102\301\075\133\153\100\202
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\051\126\054\357\161\117\302\144\361\332\264\013\312\320\071\137
\123\262\203\001\373\262\175\331\203\164\172\065\320\301\135\217
\233\367\136\347\122\337\356\252\067\223\253\331\075\175\036\361
\275\034\333\350\165\335\270\133\114\343\026\243\366\165\210\016
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\045\167\336\312\112\063\330\130\136\173\217\232\317\122\216\075
\155\375\321\262\275\076\171\127\206\036\104\034\007\115\364\302
\020\252\170\313\363\121\027\015\166\075\215\156\150\111\351\357
\007\111\321\270\026\311\171\235\314\256\013\005\107\172\375\230
\254\061\241\220\132\207\142\371\370\253\142\132\340\041\166\320
\150\102\350\034\276\162\201\360\306\147\175\176\164\074\325\125
\157\217\245\150\226\021\361\312\323\060\027\275\106\266\061\257
\160\351\244\204\067\127\272\011\074\056\331\013\023\126\007\076
\225\304\265\160\057\223\302\256\257\201\135\106\024\060\373\256
\305\363\232\367\101\172\261\336\113\026\331\105\165\107\002\174
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\314\316\036\224\267\136\056\043\006\225\221\034\070\107\034\355
\304\170\016\244\017\374\033\174\326\362\153\320\212\133\352\226
\363\061\324\136\152\304\224\270\060\237\225\341\007\211\270\210
\322\047\205\244\141\164\345\250\104\061\172\040\165\350\370\330
\353\263\117\252\377\123\077\226\355\352\273\374\121\100\246\053
\354\044\241\373\371\104\215\043\347\246\227\000\017\313\244\152
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\135\257\372\124\367\203\377\253\077\211\225\247\264\155\363\017
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\333\164\232\217\352\302\326\223\171\105\040\303
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "ACA ROOT"
Issuer: CN=ACA ROOT,O=CONSEJO GENERAL DE LA ABOGACIA,2.5.4.5=Q2863006I,C=ES
Serial Number:47:43:91:24:3f:ce:c3:0d:57:48:28:6b:ee:80:5d:ab
Subject: CN=ACA ROOT,O=CONSEJO GENERAL DE LA ABOGACIA,2.5.4.5=Q2863006I,C=ES
Not Valid Before: Fri May 27 10:58:51 2016
Not Valid After: Mon May 27 10:58:51 2041
Fingerprint (MD5): cc:49:10:f6:2f:f5:db:be:2f:8c:51:f3:8f:74:7c:12
Fingerprint (SHA1): d4:96:59:2b:30:57:07:38:6c:c5:f3:cd:b2:59:ae:66:d7:66:1f:ca
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL
 CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ACA ROOT"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\324\226\131\053\060\127\007\070\154\305\363\315\262\131\256\146
\327\146\037\312
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\314\111\020\366\057\365\333\276\057\214\121\363\217\164\174\022
END
CKA_ISSUER MULTILINE_OCTAL
\060\135\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\022\060\020\006\003\125\004\005\023\011\121\062\070\066\063\060
\060\066\111\061\047\060\045\006\003\125\004\012\014\036\103\117
\116\123\105\112\117\040\107\105\116\105\122\101\114\040\104\105
\040\114\101\040\101\102\117\107\101\103\111\101\061\021\060\017
\006\003\125\004\003\014\010\101\103\101\040\122\117\117\124
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\107\103\221\044\077\316\303\015\127\110\050\153\356\200
\135\253
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED
 CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "CHAMBERS OF COMMERCE ROOT - 2016"
Issuer: CN=CHAMBERS OF COMMERCE ROOT - 2016,O=AC CAMERFIRMA S.A.,2.5.4.97=VATES-A82743287,2.5.4.5=A82743287,OU=CHAMBERS OF COMMERCE ROOT - 2016,OU=see current address at www.camerfirma.com/address,L=MADRID,ST=MADRID,C=ES
Serial Number:34:9a:2d:a1:82:06:b2:b3
Subject: CN=CHAMBERS OF COMMERCE ROOT - 2016,O=AC CAMERFIRMA S.A.,2.5.4.97=VATES-A82743287,2.5.4.5=A82743287,OU=CHAMBERS OF COMMERCE ROOT - 2016,OU=see current address at www.camerfirma.com/address,L=MADRID,ST=MADRID,C=ES
Not Valid Before: Thu Apr 14 07:35:48 2016
Not Valid After: Sun Apr 08 07:35:48 2040
Fingerprint (MD5): d9:84:45:a4:8b:62:ec:c1:fc:51:54:8a:d1:58:8d:e8
Fingerprint (SHA1): 2d:e1:6a:56:77:ba:ca:39:e1:d6:8c:30:dc:b1:4a:be:22:a6:17:9b
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL

UTF8 "CHAMBERS OF COMMERCE ROOT - 2016"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\202\001\014\061\013\060\011\006\003\125\004\006\023\002\105
\123\061\017\060\015\006\003\125\004\010\014\006\115\101\104\122
\111\104\061\017\060\015\006\003\125\004\007\014\006\115\101\104
\122\111\104\061\072\060\070\006\003\125\004\013\014\061\163\145
\145\040\143\165\162\162\145\156\164\040\141\144\144\162\145\163
\163\040\141\164\040\167\167\167\056\143\141\155\145\162\146\151
\162\155\141\056\143\157\155\057\141\144\144\162\145\163\163\061
\051\060\047\006\003\125\004\013\014\040\103\110\101\115\102\105
\122\123\040\117\106\040\103\117\115\115\105\122\103\105\040\122
\117\117\124\040\055\040\062\060\061\066\061\022\060\020\006\003
\125\004\005\023\011\101\070\062\067\064\063\062\070\067\061\030
\060\026\006\003\125\004\141\014\017\126\101\124\105\123\055\101
\070\062\067\064\063\062\070\067\061\033\060\031\006\003\125\004
\012\014\022\101\103\040\103\101\115\105\122\106\111\122\115\101
\040\123\056\101\056\061\051\060\047\006\003\125\004\003\014\040
\103\110\101\115\102\105\122\123\040\117\106\040\103\117\115\115
\105\122\103\105\040\122\117\117\124\040\055\040\062\060\061\066
END
CKA_ID
UTF8 "0"
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\123\061\017\060\015\006\003\125\004\010\014\006\115\101\104\122
\111\104\061\017\060\015\006\003\125\004\007\014\006\115\101\104
\122\111\104\061\072\060\070\006\003\125\004\013\014\061\163\145
\145\040\143\165\162\162\145\156\164\040\141\144\144\162\145\163
\163\040\141\164\040\167\167\167\056\143\141\155\145\162\146\151
\162\155\141\056\143\157\155\057\141\144\144\162\145\163\163\061
\051\060\047\006\003\125\004\013\014\040\103\110\101\115\102\105
\122\123\040\117\106\040\103\117\115\115\105\122\103\105\040\122
\117\117\124\040\055\040\062\060\061\066\061\022\060\020\006\003
\125\004\005\023\011\101\070\062\067\064\063\062\070\067\061\030
\060\026\006\003\125\004\141\014\017\126\101\124\105\123\055\101
\070\062\067\064\063\062\070\067\061\033\060\031\006\003\125\004
\012\014\022\101\103\040\103\101\115\105\122\106\111\122\115\101
\040\123\056\101\056\061\051\060\047\006\003\125\004\003\014\040
\103\110\101\115\102\105\122\123\040\117\106\040\103\117\115\115
\105\122\103\105\040\122\117\117\124\040\055\040\062\060\061\066
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\010\064\232\055\241\202\006\262\263
END
CKA_VALUE MULTILINE_OCTAL
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\232\055\241\202\006\262\263\060\015\006\011\052\206\110\206\367
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\125\004\006\023\002\105\123\061\017\060\015\006\003\125\004\010
\014\006\115\101\104\122\111\104\061\017\060\015\006\003\125\004
\007\014\006\115\101\104\122\111\104\061\072\060\070\006\003\125
\004\013\014\061\163\145\145\040\143\165\162\162\145\156\164\040
\141\144\144\162\145\163\163\040\141\164\040\167\167\167\056\143
\141\155\145\162\146\151\162\155\141\056\143\157\155\057\141\144
\144\162\145\163\163\061\051\060\047\006\003\125\004\013\014\040
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\105\122\103\105\040\122\117\117\124\040\055\040\062\060\061\066
\061\022\060\020\006\003\125\004\005\023\011\101\070\062\067\064
\063\062\070\067\061\030\060\026\006\003\125\004\141\014\017\126
\101\124\105\123\055\101\070\062\067\064\063\062\070\067\061\033
\060\031\006\003\125\004\012\014\022\101\103\040\103\101\115\105
\122\106\111\122\115\101\040\123\056\101\056\061\051\060\047\006
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\106\040\103\117\115\115\105\122\103\105\040\122\117\117\124\040
\055\040\062\060\061\066\060\036\027\015\061\066\060\064\061\064
\060\067\063\065\064\070\132\027\015\064\060\060\064\060\070\060
\067\063\065\064\070\132\060\202\001\014\061\013\060\011\006\003
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\007\014\006\115\101\104\122\111\104\061\072\060\070\006\003\125
\004\013\014\061\163\145\145\040\143\165\162\162\145\156\164\040
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\141\155\145\162\146\151\162\155\141\056\143\157\155\057\141\144
\144\162\145\163\163\061\051\060\047\006\003\125\004\013\014\040
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\105\122\103\105\040\122\117\117\124\040\055\040\062\060\061\066
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\063\062\070\067\061\030\060\026\006\003\125\004\141\014\017\126
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\253\307\133\155\034\120\131\300\355\350\254\202\102\376\271\257
\057\014\101\121\234\275\000\156\144\121\262\073\345\066\253\225
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\077\120\360\236\366\150\120\116\151\225\160\301\355\223\251\227
\116\051\242\272\335\302\237\156\111\010\053\243\372\043\361\051
\136\260\175\061\131\233\355\214\315\246\156\370\370\367\330\030
\350\332\126\351\110\362\100\164\176\236\315\040\257\024\044\131
\356\167\065\205\277\112\231\112\251\165\335\263\046\343\006\316
\175\157\113\144\243\166\064\031\076\024\157\205\124\070\342\213
\055\100\265\144\146\037\127\063\034\160\315\303\264\050\132\024
\043\134\374\270\275\263\376\073\022\137\366\271\214\035\310\224
\012\126\333\162\176\357\047\007\015\000\264\277\175\231\077\115
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\345\030\150\055\063\200\165\240\060\007\150\366\325\367\023\054
\072\260\236\350\130\125\156\214\126\104\115\103\027\101\002\314
\167\334\137\105\005\131\317\315\140\323\277\322\366\342\364\325
\334\207\161\063\007\032\365\157\264\177\075\227\373\137\144\364
\116\016\000\104\011\351\353\354\076\161\031\004\027\071\110\140
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\043\164\020\170\357\313\047\235\061\272\140\213\116\006\120\342
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\162\004\212\074\343\001\333\002\003\001\000\001\243\102\060\100
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\076\127\365\253\175\226\306\213\337\263\065\155\112\350\236\213
\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006
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\054\322\117\133\321\135\104\046\332\157\151\053\265\173\236\320
\364\112\056\110\307\354\177\237\312\131\172\271\104\367\076\275
\367\120\153\121\237\164\377\220\032\100\320\223\171\222\017\212
\043\136\213\257\201\013\320\213\255\146\340\052\334\232\051\275
\065\330\154\100\024\111\102\075\211\057\272\233\053\070\274\032
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\075\030\117\214\155\024\135\016\252\267\337\167\253\073\217\142
\116\213\014\145\306\031\216\315\300\014\241\167\252\264\335\172
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\323\001\311\057\305\073\062\156\360\303\070\312\022\147\274\272
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\325\302\174\342\130\004\300\354\304\275\242\074\176\306\043\201
\165\174\253\160\137\064\204\225\367\263\325\107\226\117\161\312
\170\062\010\040\264\102\244\102\153\325\045\234\262\047\353\301
\016\107\104\011\341\053\017\320\043\066\156\034\271\272\116\254
\314\360\014\224\316\101\017\153\335\017\325\310\340\027\213\336
\072\135\122\276\351\165\045\035\272\005\007\332\126\031\074\215

\321\327\361\121\066\331\222\357\242\170\121\005\130\275\122\314
\012\136\157\257\332\320\345\014\333\154\301\043\357\071\061\167
\027\007\000\214\366\272\017\160\371\274\276\341\344\175\341\314
\104\172\244\041\354\107\077\250\326\025\245\354\001\251\310\160
\350\230\147\035\275\131\124\176\241\127\025\065\007\305\162\311
\076\267\051\206\215\237\332\062\171\062\334\333\250\345\011\377
\357\126\052\376\223\261\216\052\023\355\255\242\053\153\057\004
\336\315\057\222\222\326\076\140\265\170\001\225\007\010\251\154
\343\034\332\373\345\233\043\126\040\133\351\320\134\306\112\044
\073\274\343\266\042\026\052\204\222\377\250\376\227\277\243\235
\333\141\136\356\031\052\054\327\353\015\166\126\070\165\176\111
\000\223\127\311\374\043\132\374\364\361\337\052\235\260\214\151
\364\020\243\125\235\160\074\042\377\007\326\053\266\231\300\227
\320\364\052\240
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "CHAMBERS OF COMMERCE ROOT - 2016"
Issuer: CN=CHAMBERS OF COMMERCE ROOT - 2016,O=AC CAMERFIRMA S.A.,2.5.4.97=VATES-A82743287,2.5.4.5=A82743287,OU=CHAMBERS
OF COMMERCE ROOT - 2016,OU=see current address at
www.camerfirma.com/address,L=MADRID,ST=MADRID,C=ES
Serial Number:34:9a:2d:a1:82:06:b2:b3
Subject: CN=CHAMBERS OF COMMERCE ROOT - 2016,O=AC CAMERFIRMA S.A.,2.5.4.97=VATES-A82743287,2.5.4.5=A82743287,OU=CHAMBERS OF COMMERCE ROOT - 2016,OU=see current address at
www.camerfirma.com/address,L=MADRID,ST=MADRID,C=ES
Not Valid Before: Thu Apr 14 07:35:48 2016
Not Valid After: Sun Apr 08 07:35:48 2040
Fingerprint (MD5): d9:84:45:a4:8b:62:ec:c1:fc:51:54:8a:d1:58:8d:e8
Fingerprint (SHA1): 2d:e1:6a:56:77:ba:ca:39:e1:d6:8c:30:dc:b1:4a:be:22:a6:17:9b
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CHAMBERS OF COMMERCE ROOT - 2016"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\055\341\152\126\167\272\312\071\341\326\214\060\334\261\112\276
\042\246\027\233
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\331\204\105\244\213\142\354\301\374\121\124\212\321\130\215\350
END
CKA_ISSUER

```
 MULTILINE_OCTAL
\060\202\001\014\061\013\060\011\006\003\125\004\006\023\002\105
\123\061\017\060\015\006\003\125\004\010\014\006\115\101\104\122
\111\104\061\017\060\015\006\003\125\004\007\014\006\115\101\104
\122\111\104\061\072\060\070\006\003\125\004\013\014\061\163\145
\145\040\143\165\162\162\145\156\164\040\141\144\144\162\145\163
\163\040\141\164\040\167\167\167\056\143\141\155\145\162\146\151
\162\155\141\056\143\157\155\057\141\144\144\162\145\163\163\061
\051\060\047\006\003\125\004\013\014\040\103\110\101\115\102\105
\122\123\040\117\106\040\103\117\115\115\105\122\103\105\040\122
\117\117\124\040\055\040\062\060\061\066\061\022\060\020\006\003
\125\004\005\023\011\101\070\062\067\064\063\062\070\067\061\030
\060\026\006\003\125\004\141\014\017\126\101\124\105\123\055\101
\070\062\067\064\063\062\070\067\061\033\060\031\006\003\125\004
\012\014\022\101\103\040\103\101\115\105\122\106\111\122\115\101
\040\123\056\101\056\061\051\060\047\006\003\125\004\003\014\040
\103\110\101\115\102\105\122\123\040\117\106\040\103\117\115\115
\105\122\103\105\040\122\117\117\124\040\055\040\062\060\061\066
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\010\064\232\055\241\202\006\262\263
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Network Solutions RSA Certificate Authority"
# Issuer: CN=Network Solutions RSA Certificate Authority,O=Network Solutions
L.L.C.,L=Jacksonville,ST=FL,C=US
# Serial Number:4c:03:4b:ac:67:18:4c:7f:af:44:08:4d:82:96:c7:b2
# Subject: CN=Network Solutions RSA Certificate Authority,O=Network Solutions
L.L.C.,L=Jacksonville,ST=FL,C=US
# Not Valid Before: Wed Nov 18 00:00:00 2015
# Not Valid After: Mon Jan 18 23:59:59 2038
# Fingerprint (MD5): 5a:2f:58:bc:83:2c:2d:99:b4:9b:78:24:d4:8f:f9:67
#
 Fingerprint (SHA1): 8e:92:8c:0f:c2:7b:b7:ab:a3:4e:6b:c0:ca:12:50:cb:57:b6:0f:84
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Network Solutions RSA Certificate Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\212\061\013\060\011\006\003\125\004\006\023\002\125\123
```

\061\013\060\011\006\003\125\004\010\023\002\106\114\061\025\060
\023\006\003\125\004\007\023\014\112\141\143\153\163\157\156\166
\151\154\154\145\061\041\060\037\006\003\125\004\012\023\030\116
\145\164\167\157\162\153\040\123\157\154\165\164\151\157\156\163
\040\114\056\114\056\103\056\061\064\060\062\006\003\125\004\003
\023\053\116\145\164\167\157\162\153\040\123\157\154\165\164\151
\157\156\163\040\122\123\101\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\212\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\013\060\011\006\003\125\004\010\023\002\106\114\061\025\060
\023\006\003\125\004\007\023\014\112\141\143\153\163\157\156\166
\151\154\154\145\061\041\060\037\006\003\125\004\012\023\030\116
\145\164\167\157\162\153\040\123\157\154\165\164\151\157\156\163
\040\114\056\114\056\103\056\061\064\060\062\006\003\125\004\003
\023\053\116\145\164\167\157\162\153\040\123\157\154\165\164\151
\157\156\163\040\122\123\101\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\114\003\113\254\147\030\114\177\257\104\010\115\202\226
\307\262
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\342\060\202\003\312\240\003\002\001\002\002\020\114
\003\113\254\147\030\114\177\257\104\010\115\202\226\307\262\060
\015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\201
\212\061\013\060\011\006\003\125\004\006\023\002\125\123\061\013
\060\011\006\003\125\004\010\023\002\106\114\061\025\060\023\006
\003\125\004\007\023\014\112\141\143\153\163\157\156\166\151\154
\154\145\061\041\060\037\006\003\125\004\012\023\030\116\145\164
\167\157\162\153\040\123\157\154\165\164\151\157\156\163\040\114
\056\114\056\103\056\061\064\060\062\006\003\125\004\003\023\053
\116\145\164\167\157\162\153\040\123\157\154\165\164\151\157\156
\163\040\122\123\101\040\103\145\162\164\151\146\151\143\141\164
\145\040\101\165\164\150\157\162\151\164\171\060\036\027\015\061
\065\061\061\061\070\060\060\060\060\060\060\132\027\015\063\070
\060\061\061\070\062\063\065\071\065\071\132\060\201\212\061\013
\060\011\006\003\125\004\006\023\002\125\123\061\013\060\011\006
\003\125\004\010\023\002\106\114\061\025\060\023\006\003\125\004
\007\023\014\112\141\143\153\163\157\156\166\151\154\154\145\061
\041\060\037\006\003\125\004\012\023\030\116\145\164\167\157\162
\153\040\123\157\154\165\164\151\157\156\163\040\114\056\114\056
\103\056\061\064\060\062\006\003\125\004\003\023\053\116\145\164
\167\157\162\153\040\123\157\154\165\164\151\157\156\163\040\122

\123\101\040\103\145\162\164\151\146\151\143\141\164\145\040\101
\165\164\150\157\162\151\164\171\060\202\002\042\060\015\006\011
\052\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000
\060\202\002\012\002\202\002\001\000\204\337\250\246\243\214\013
\170\036\310\115\031\225\335\051\220\222\040\065\220\052\224\215
\202\063\055\160\022\130\245\010\212\236\301\010\363\223\326\150
\300\057\024\276\171\244\374\175\314\325\274\076\217\355\234\112
\002\141\131\075\252\303\157\164\000\322\370\032\064\324\124\236
\152\164\107\232\057\340\322\367\017\367\303\335\077\245\277\301
\372\175\102\151\140\000\200\354\074\346\273\201\067\244\036\006
\024\075\127\217\220\244\065\112\064\163\207\266\032\303\135\220
\357\006\115\160\166\066\074\202\211\355\317\144\031\203\045\103
\116\034\342\361\152\122\206\376\121\344\176\070\337\025\215\114
\154\140\101\112\117\260\100\125\106\071\165\311\201\071\000\163
\212\142\352\017\145\267\217\117\227\100\316\317\356\301\152\050
\240\161\251\231\047\321\075\311\065\163\172\200\231\370\175\206
\271\235\171\072\355\323\052\372\176\246\270\377\127\052\163\262
\246\277\332\211\272\006\033\332\145\240\346\276\140\224\210\366
\337\146\341\047\152\033\376\320\136\251\215\040\213\012\304\037
\176\210\101\057\262\301\320\363\266\150\355\310\073\361\357\252
\007\336\176\327\042\340\201\366\245\352\173\026\364\102\124\235
\226\176\366\142\026\123\315\375\012\253\262\102\241\116\052\210
\102\165\203\275\214\345\115\172\347\035\343\114\270\336\343\253
\140\070\055\147\051\376\344\137\256\302\250\350\277\256\154\371
\353\263\122\361\177\351\354\302\057\331\235\312\027\236\102\372
\073\130\301\076\210\142\117\137\223\301\227\155\146\217\034\042
\363\232\301\364\355\271\153\032\176\066\204\310\061\270\360\136
\053\176\225\344\171\317\165\114\302\330\004\277\070\216\050\263
\335\133\266\330\117\043\156\222\350\067\225\256\203\256\326\374
\071\052\106\006\037\361\204\165\041\326\270\116\246\052\227\130
\145\365\232\030\001\327\365\303\177\051\311\020\356\163\112\103
\166\173\321\246\060\121\377\326\053\035\036\142\204\276\371\276
\151\227\231\307\015\347\174\044\120\165\027\375\244\040\347\065
\150\003\140\224\247\331\015\306\032\054\345\342\116\325\314\016
\300\172\060\126\357\140\222\276\331\056\365\307\360\350\105\317
\332\206\256\357\330\167\251\022\047\002\003\001\000\001\243\102
\060\100\060\035\006\003\125\035\016\004\026\004\024\017\361\112
\112\165\164\005\021\014\035\330\133\231\353\277\376\252\175\136
\327\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001
\206\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001
\001\377\060\015\006\011\052\206\110\206\367\015\001\001\014\005
\000\003\202\002\001\000\075\313\322\106\170\365\366\072\027\350
\303\173\144\321\305\273\220\170\215\365\117\271\304\055\227\373
\013\346\305\270\361\266\352\350\130\113\064\255\167\171\054\065
\037\162\175\002\076\356\265\320\026\212\006\067\226\265\357\103
\320\011\020\054\227\146\307\201\037\036\346\047\305\202\221\130
\136\363\310\133\101\150\200\203\221\271\234\201\370\047\372\105
\337\356\171\362\134\155\160\002\124\356\300\123\330\103\353\005

\172\314\364\121\335\251\324\042\175\152\073\362\376\210\324\122
\111\072\205\222\144\123\370\152\123\140\210\217\362\133\324\256
\053\122\340\352\377\124\176\241\344\357\206\033\247\203\013\006
\146\136\060\200\214\125\240\107\063\377\153\036\104\110\113\141
\252\036\076\350\114\144\307\330\155\175\016\256\074\074\102\075
\312\044\032\160\361\141\024\234\072\030\325\360\006\051\221\042
\262\072\072\241\026\124\143\032\371\063\225\104\237\044\243\041
\144\004\010\342\233\325\336\010\122\034\142\034\123\026\107\065
\102\046\307\247\014\375\363\133\023\167\002\214\134\342\026\360
\030\037\331\175\365\337\002\044\210\172\363\136\377\027\016\263
\142\147\241\253\261\027\216\075\072\106\260\365\106\214\253\204
\330\365\016\241\040\353\302\360\231\164\075\216\263\003\330\044
\305\154\353\153\014\123\277\140\151\335\214\050\305\157\317\273
\322\201\167\053\306\174\261\304\112\154\025\020\067\051\135\256
\370\261\021\005\304\024\215\354\023\243\104\375\115\213\150\270
\301\377\235\325\067\056\110\370\050\174\334\371\163\123\331\266
\001\165\102\172\277\013\337\121\120\270\123\262\341\356\164\220
\313\274\252\320\161\203\242\253\116\311\020\266\075\034\357\100
\327\117\103\220\063\271\001\226\124\135\052\325\006\133\222\206
\270\006\020\201\006\310\221\333\051\040\262\123\275\363\113\133
\114\333\151\037\211\156\124\077\327\211\135\347\265\315\014\276
\077\175\170\070\001\322\266\147\246\317\130\110\224\032\105\375
\220\163\111\312\265\103\240\041\142\215\111\004\046\252\370\037
\056\077\362\056\241\362\253\364\006\036\260\055\304\301\160\102
\075\375\303\121\111\210\000\016\312\202\015\233\171\002\342\300
\056\223\337\344\362\361
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing
Only Certificate
Trust for "Network Solutions RSA Certificate Authority"
Issuer: CN=Network Solutions RSA Certificate Authority,O=Network Solutions
L.L.C.,L=Jacksonville,ST=FL,C=US
Serial Number:4c:03:4b:ac:67:18:4c:7f:af:44:08:4d:82:96:c7:b2
Subject: CN=Network Solutions RSA Certificate Authority,O=Network Solutions
L.L.C.,L=Jacksonville,ST=FL,C=US
Not Valid Before: Wed Nov 18 00:00:00 2015
Not Valid After: Mon Jan 18 23:59:59 2038
Fingerprint (MD5): 5a:2f:58:bc:83:2c:2d:99:b4:9b:78:24:d4:8f:f9:67
Fingerprint (SHA1): 8e:92:8c:0f:c2:7b:b7:ab:a3:4e:6b:c0:ca:12:50:cb:57:b6:0f:84
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE

```
CKA_LABEL UTF8 "Network Solutions RSA Certificate Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\216\222\214\017\302\173\267\253\243\116\153\300\312\022\120\313
\127\266\017\204
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\132\057\130\274\203\054\055\231\264\233\170\044\324\217\371\147
END
CKA_ISSUER
 MULTILINE_OCTAL
\060\201\212\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\013\060\011\006\003\125\004\010\023\002\106\114\061\025\060
\023\006\003\125\004\007\023\014\112\141\143\153\163\157\156\166
\151\154\154\145\061\041\060\037\006\003\125\004\012\023\030\116
\145\164\167\157\162\153\040\123\157\154\165\164\151\157\156\163
\040\114\056\114\056\103\056\061\064\060\062\006\003\125\004\003
\023\053\116\145\164\167\157\162\153\040\123\157\154\165\164\151
\157\156\163\040\122\123\101\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\114\003\113\254\147\030\114\177\257\104\010\115\202\226
\307\262
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
#
 Certificate "Network Solutions ECC Certificate Authority"
# Issuer: CN=Network Solutions ECC Certificate Authority,O=Network Solutions
L.L.C.,L=Jacksonville,ST=FL,C=US
# Serial Number:79:38:4b:b4:19:1a:8d:74:22:cc:ff:85:32:f2:e4:ba
# Subject: CN=Network Solutions ECC Certificate Authority,O=Network Solutions
L.L.C.,L=Jacksonville,ST=FL,C=US
# Not Valid Before: Wed Nov 18 00:00:00 2015
# Not Valid After: Mon Jan 18 23:59:59 2038
# Fingerprint (MD5): a5:a8:cc:e3:1c:41:11:8c:6a:8c:38:bd:a2:47:fe:b2
# Fingerprint (SHA1): 80:f9:5b:74:1c:38:39:94:95:c3:4f:20:c2:3e:73:36:31:4d:3c:6b
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Network Solutions ECC Certificate Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
```

\060\201\212\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\013\060\011\006\003\125\004\010\023\002\106\114\061\025\060
\023\006\003\125\004\007\023\014\112\141\143\153\163\157\156\166
\151\154\154\145\061\041\060\037\006\003\125\004\012\023\030\116
\145\164\167\157\162\153\040\123\157\154\165\164\151\157\156\163
\040\114\056\114\056\103\056\061\064\060\062\006\003\125\004\003
\023\053\116\145\164\167\157\162\153\040\123\157\154\165\164\151
\157\156\163\040\105\103\103\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\212\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\013\060\011\006\003\125\004\010\023\002\106\114\061\025\060
\023\006\003\125\004\007\023\014\112\141\143\153\163\157\156\166
\151\154\154\145\061\041\060\037\006\003\125\004\012\023\030\116
\145\164\167\157\162\153\040\123\157\154\165\164\151\157\156\163
\040\114\056\114\056\103\056\061\064\060\062\006\003\125\004\003
\023\053\116\145\164\167\157\162\153\040\123\157\154\165\164\151
\157\156\163\040\105\103\103\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\171\070\113\264\031\032\215\164\042\314\377\205\062\362
\344\272
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\224\060\202\002\031\240\003\002\001\002\002\020\171
\070\113\264\031\032\215\164\042\314\377\205\062\362\344\272\060
\012\006\010\052\206\110\316\075\004\003\003\060\201\212\061\013
\060\011\006\003\125\004\006\023\002\125\123\061\013\060\011\006
\003\125\004\010\023\002\106\114\061\025\060\023\006\003\125\004
\007\023\014\112\141\143\153\163\157\156\166\151\154\154\145\061
\041\060\037\006\003\125\004\012\023\030\116\145\164\167\157\162
\153\040\123\157\154\165\164\151\157\156\163\040\114\056\114\056
\103\056\061\064\060\062\006\003\125\004\003\023\053\116\145\164
\167\157\162\153\040\123\157\154\165\164\151\157\156\163\040\105
\103\103\040\103\145\162\164\151\146\151\143\141\164\145\040\101
\165\164\150\157\162\151\164\171\060\036\027\015\061\065\061\061
\061\070\060\060\060\060\060\060\132\027\015\063\070\060\061\061
\070\062\063\065\071\065\071\132\060\201\212\061\013\060\011\006
\003\125\004\006\023\002\125\123\061\013\060\011\006\003\125\004
\010\023\002\106\114\061\025\060\023\006\003\125\004\007\023\014
\112\141\143\153\163\157\156\166\151\154\154\145\061\041\060\037
\006\003\125\004\012\023\030\116\145\164\167\157\162\153\040\123
\157\154\165\164\151\157\156\163\040\114\056\114\056\103\056\061

\064\060\062\006\003\125\004\003\023\053\116\145\164\167\157\162
\153\040\123\157\154\165\164\151\157\156\163\040\105\103\103\040
\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150
\157\162\151\164\171\060\166\060\020\006\007\052\206\110\316\075
\002\001\006\005\053\201\004\000\042\003\142\000\004\024\341\003
\013\145\157\255\131\326\036\356\311\277\264\114\305\306\134\057
\060\307\237\122\333\150\141\300\151\020\342\222\172\032\303\277
\222\250\211\071\212\373\347\240\273\161\244\240\303\337\167\326
\224\067\023\137\176\123\135\120\272\343\114\010\307\145\342\101
\260\346\131\362\234\370\300\262\167\301\012\221\046\167\362\151
\266\273\320\101\074\052\210\032\224\221\026\306\076\243\102\060
\100\060\035\006\003\125\035\016\004\026\004\024\233\173\353\310
\377\203\362\122\230\107\060\012\126\370\070\276\343\353\000\316
\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\206
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001
\377\060\012\006\010\052\206\110\316\075\004\003\003\003\151\000
\060\146\002\061\000\251\144\130\367\234\271\023\146\042\111\177
\262\321\002\351\023\374\034\373\244\064\222\344\312\007\015\267
\261\122\170\050\064\313\362\041\126\221\206\206\310\212\013\257
\062\204\124\145\211\002\061\000\354\171\015\235\211\360\014\030
\352\173\127\122\255\013\346\324\171\133\313\233\342\006\105\165
\030\275\320\374\247\335\307\341\307\042\266\343\101\044\135\043
\346\250\237\000\152\120\062\045
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER
CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Network Solutions ECC Certificate Authority"
Issuer: CN=Network Solutions ECC Certificate Authority,O=Network Solutions
L.L.C.,L=Jacksonville,ST=FL,C=US
Serial Number:79:38:4b:b4:19:1a:8d:74:22:cc:ff:85:32:f2:e4:ba
Subject: CN=Network Solutions ECC Certificate Authority,O=Network Solutions
L.L.C.,L=Jacksonville,ST=FL,C=US
Not Valid Before: Wed Nov 18 00:00:00 2015
Not Valid After: Mon Jan 18 23:59:59 2038
Fingerprint (MD5): a5:a8:cc:e3:1c:41:11:8c:6a:8c:38:bd:a2:47:fe:b2
Fingerprint (SHA1): 80:f9:5b:74:1c:38:39:94:95:c3:4f:20:c2:3e:73:36:31:4d:3c:6b
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Network Solutions ECC Certificate Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\200\371\133\164\034\070\071\224\225\303\117\040\302\076\163\066

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\061\115\074\153
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\245\250\314\343\034\101\021\214\152\214\070\275\242\107\376\262
END
CKA_ISSUER
 MULTILINE_OCTAL
\060\201\212\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\013\060\011\006\003\125\004\010\023\002\106\114\061\025\060
\023\006\003\125\004\007\023\014\112\141\143\153\163\157\156\166
\151\154\154\145\061\041\060\037\006\003\125\004\012\023\030\116
\145\164\167\157\162\153\040\123\157\154\165\164\151\157\156\163
\040\114\056\114\056\103\056\061\064\060\062\006\003\125\004\003
\023\053\116\145\164\167\157\162\153\040\123\157\154\165\164\151
\157\156\163\040\105\103\103\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\171\070\113\264\031\032\215\164\042\314\377\205\062\362
\344\272
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL
 CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Australian Defence Public Root CA"
# Issuer: CN=Australian Defence Public Root CA,OU=CAs,OU=PKI,OU=DoD,O=GOV,C=AU
# Serial Number:29:eb:92:33:46:4f:32:41:ff:83:19:00:a9:ad:c4:d9:f8:e3:e2:7f
# Subject: CN=Australian Defence Public Root CA,OU=CAs,OU=PKI,OU=DoD,O=GOV,C=AU
# Not Valid Before: Mon Nov 28 22:25:28 2016
# Not Valid After: Fri Nov 28 22:13:48 2036
# Fingerprint (MD5): a2:6b:fb:f8:f3:14:59:bf:16:d7:3c:ce:f3:20:0a:97
# Fingerprint (SHA1): a9:ca:fe:9d:fd:67:f4:14:5a:d3:97:d0:e2:f3:05:0d:19:8d:e6:ee
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Australian Defence Public Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\161\061\013\060\011\006\003\125\004\006\023\002\101\125\061
\014\060\012\006\003\125\004\012\023\003\107\117\126\061\014\060
\012\006\003\125\004\013\023\003\104\157\104\061\014\060\012\006
\003\125\004\013\023\003\120\113\111\061\014\060\012\006\003\125
\004\013\023\003\103\101\163\061\052\060\050\006\003\125\004\003
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\023\041\101\165\163\164\162\141\154\151\141\156\040\104\145\146
\145\156\143\145\040\120\165\142\154\151\143\040\122\157\157\164
\040\103\101
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\161\061\013\060\011\006\003\125\004\006\023\002\101\125\061
\014\060\012\006\003\125\004\012\023\003\107\117\126\061\014\060
\012\006\003\125\004\013\023\003\104\157\104\061\014\060\012\006
\003\125\004\013\023\003\120\113\111\061\014\060\012\006\003\125
\004\013\023\003\103\101\163\061\052\060\050\006\003\125\004\003
\023\041\101\165\163\164\162\141\154\151\141\156\040\104\145\146
\145\156\143\145\040\120\165\142\154\151\143\040\122\157\157\164
\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\051\353\222\063\106\117\062\101\377\203\031\000\251\255
\304\331\370\343\342\177
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\042\060\202\003\012\240\003\002\001\002\002\024\051
\353\222\063\106\117\062\101\377\203\031\000\251\255\304\331\370
\343\342\177\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\060\161\061\013\060\011\006\003\125\004\006\023\002\101
\125\061\014\060\012\006\003\125\004\012\023\003\107\117\126\061
\014\060\012\006\003\125\004\013\023\003\104\157\104\061\014\060
\012\006\003\125\004\013\023\003\120\113\111\061\014\060\012\006
\003\125\004\013\023\003\103\101\163\061\052\060\050\006\003\125
\004\003\023\041\101\165\163\164\162\141\154\151\141\156\040\104
\145\146\145\156\143\145\040\120\165\142\154\151\143\040\122\157
\157\164\040\103\101\060\036\027\015\061\066\061\061\062\070\062
\062\062\065\062\070\132\027\015\063\066\061\061\062\070\062\062
\061\063\064\070\132\060\161\061\013\060\011\006\003\125\004\006
\023\002\101\125\061\014\060\012\006\003\125\004\012\023\003\107
\117\126\061\014\060\012\006\003\125\004\013\023\003\104\157\104
\061\014\060\012\006\003\125\004\013\023\003\120\113\111\061\014
\060\012\006\003\125\004\013\023\003\103\101\163\061\052\060\050
\006\003\125\004\003\023\041\101\165\163\164\162\141\154\151\141
\156\040\104\145\146\145\156\143\145\040\120\165\142\154\151\143
\040\122\157\157\164\040\103\101\060\202\001\042\060\015\006\011
\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017\000
\060\202\001\012\002\202\001\001\000\323\116\124\004\033\320\364
\233\235\270\043\207\340\040\307\236\230\261\161\172\006\220\056
\342\255\110\376\223\005\154\354\206\277\050\100\205\263\114\171
\357\107\123\230\020\036\124\356\175\170\270\030\023\014\104\122
\375\320\201\252\223\010\043\071\276\137\017\153\335\045\227\363
\001\102\337\324\201\000\304\120\276\172\211\055\031\257\163\112

\077\314\072\300\277\242\250\305\025\367\076\174\101\164\202\153
\056\167\146\342\152\245\221\210\156\006\061\247\257\013\346\132
\340\256\175\132\257\057\107\320\362\373\204\163\234\106\241\036
\204\104\121\304\137\056\332\220\002\137\201\337\021\016\322\373
\273\072\027\163\243\362\215\143\252\117\377\162\172\145\142\203
\132\052\074\362\315\054\043\215\317\353\041\037\277\324\003\127
\365\067\026\014\136\345\127\021\302\250\372\377\154\071\362\075
\122\346\265\171\300\133\342\262\352\143\040\014\016\245\052\136
\022\341\346\257\137\213\174\240\255\071\065\065\230\137\361\257
\070\320\046\323\115\275\142\167\165\075\257\153\024\206\173\132
\366\041\217\326\352\342\247\016\255\002\003\001\000\001\243\201
\261\060\201\256\060\017\006\003\125\035\023\001\001\377\004\005
\060\003\001\001\377\060\113\006\003\125\035\040\004\104\060\102
\060\006\006\004\125\035\040\000\060\070\006\011\052\044\001\202
\116\001\001\001\007\060\053\060\051\006\010\053\006\001\005\005
\007\002\001\026\035\150\164\164\160\072\057\057\143\162\154\056
\144\145\146\145\156\143\145\056\147\157\166\056\141\165\057\160
\153\151\060\016\006\003\125\035\017\001\001\377\004\004\003\002
\001\306\060\037\006\003\125\035\043\004\030\060\026\200\024\254
\231\341\002\057\350\134\113\101\267\064\270\036\351\233\203\066
\015\224\264\060\035\006\003\125\035\016\004\026\004\024\254\231
\341\002\057\350\134\113\101\267\064\270\036\351\233\203\066\015
\224\264\060\015\006\011\052\206\110\206\367\015\001\001\013\005
\000\003\202\001\001\000\170\274\201\112\330\072\127\273\275\046
\277\352\052\050\360\210\212\362\120\114\220\147\332\113\365\270
\024\010\272\333\177\162\250\232\131\274\361\034\211\250\364\072
\003\020\124\023\172\135\306\332\272\076\017\210\325\152\323\033
\227\055\142\141\072\157\371\000\257\162\006\163\354\020\300\141
\036\314\134\117\031\062\106\070\301\335\077\322\067\032\245\216
\206\240\360\011\314\065\326\031\002\174\315\071\374\367\371\037
\347\224\171\116\075\267\370\227\116\073\104\152\315\224\260\271
\367\176\342\343\371\231\177\305\323\246\120\264\111\373\026\176
\116\101\054\317\076\307\171\100\272\201\030\046\010\371\305\235
\343\330\361\157\034\150\077\152\133\167\027\122\243\006\336\031
\302\113\156\242\225\374\325\010\277\054\265\151\065\121\343\343
\337\117\032\051\155\203\170\075\070\044\312\002\077\124\020\341
\263\144\341\325\232\336\363\067\366\063\020\265\166\263\253\327
\311\037\123\072\255\125\101\034\110\311\066\236\207\377\165\334
\151\320\257\331\172\127\306\312\261\103\374\071\201\374\334\172
\243\232\245\230\120\124
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Australian Defence Public Root CA"

```
# Issuer: CN=Australian Defence Public Root CA,OU=CAs,OU=PKI,OU=DoD,O=GOV,C=AU
# Serial Number:29:eb:92:33:46:4f:32:41:ff:83:19:00:a9:ad:c4:d9:f8:e3:e2:7f
# Subject: CN=Australian Defence Public Root CA,OU=CAs,OU=PKI,OU=DoD,O=GOV,C=AU
# Not Valid Before: Mon Nov 28 22:25:28 2016
# Not Valid After: Fri Nov 28 22:13:48 2036
# Fingerprint (MD5): a2:6b:fb:f8:f3:14:59:bf:16:d7:3c:ce:f3:20:0a:97
# Fingerprint (SHA1): a9:ca:fe:9d:fd:67:f4:14:5a:d3:97:d0:e2:f3:05:0d:19:8d:e6:ee
CKA_CLASS
 CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Australian Defence Public Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\251\312\376\235\375\147\364\024\132\323\227\320\342\363\005\015
\031\215\346\356
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\242\153\373\370\363\024\131\277\026\327\074\316\363\040\012\227
END
CKA_ISSUER MULTILINE_OCTAL
\060\161\061\013\060\011\006\003\125\004\006\023\002\101\125\061
\014\060\012\006\003\125\004\012\023\003\107\117\126\061\014\060
\012\006\003\125\004\013\023\003\104\157\104\061\014\060\012\006
\003\125\004\013\023\003\120\113\111\061\014\060\012\006\003\125
\004\013\023\003\103\101\163\061\052\060\050\006\003\125\004\003
\023\041\101\165\163\164\162\141\154\151\141\156\040\104\145\146
\145\156\143\145\040\120\165\142\154\151\143\040\122\157\157\164
\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\051\353\222\063\106\117\062\101\377\203\031\000\251\255
\304\331\370\343\342\177
END
CKA_TRUST_SERVER_AUTH
 CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "SI-TRUST Root"
# Issuer: CN=SI-TRUST Root,2.5.4.97=VATSI-17659957,O=Republika Slovenija,C=SI
# Serial Number:90:ae:77:76:00:00:00:00:57:1d:d0:6f
# Subject: CN=SI-TRUST Root,2.5.4.97=VATSI-17659957,O=Republika Slovenija,C=SI
# Not Valid Before: Mon Apr 25 07:38:17 2016
# Not Valid After: Fri Dec 25 08:08:17 2037
# Fingerprint (MD5): 3a:ba:c6:f3:c7:d1:b7:8a:86:22:7d:ee:99:81:fc:90
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# Fingerprint (SHA1): 3a:49:79:b4:0f:a8:41:48:82:00:b5:82:fb:ee:b6:3a:ab:99:19:ae
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SI-TRUST Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT
 MULTILINE_OCTAL
\060\134\061\013\060\011\006\003\125\004\006\023\002\123\111\061
\034\060\032\006\003\125\004\012\023\023\122\145\160\165\142\154
\151\153\141\040\123\154\157\166\145\156\151\152\141\061\027\060
\025\006\003\125\004\141\023\016\126\101\124\123\111\055\061\067
\066\065\071\071\065\067\061\026\060\024\006\003\125\004\003\023
\015\123\111\055\124\122\125\123\124\040\122\157\157\164
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\134\061\013\060\011\006\003\125\004\006\023\002\123\111\061
\034\060\032\006\003\125\004\012\023\023\122\145\160\165\142\154
\151\153\141\040\123\154\157\166\145\156\151\152\141\061\027\060
\025\006\003\125\004\141\023\016\126\101\124\123\111\055\061\067
\066\065\071\071\065\067\061\026\060\024\006\003\125\004\003\023
\015\123\111\055\124\122\125\123\124\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\000\220\256\167\166\000\000\000\000\127\035\320\157
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\212\060\202\002\362\240\003\002\001\002\002\015\000
\220\256\167\166\000\000\000\000\127\035\320\157\060\015\006\011
\052\206\110\206\367\015\001\001\013\005\000\060\134\061\013\060
\011\006\003\125\004\006\023\002\123\111\061\034\060\032\006\003
\125\004\012\023\023\122\145\160\165\142\154\151\153\141\040\123
\154\157\166\145\156\151\152\141\061\027\060\025\006\003\125\004
\141\023\016\126\101\124\123\111\055\061\067\066\065\071\071\065
\067\061\026\060\024\006\003\125\004\003\023\015\123\111\055\124
\122\125\123\124\040\122\157\157\164\060\036\027\015\061\066\060
\064\062\065\060\067\063\070\061\067\132\027\015\063\067\061\062
\062\065\060\070\060\070\061\067\132\060\134\061\013\060\011\006
\003\125\004\006\023\002\123\111\061\034\060\032\006\003\125\004
\012\023\023\122\145\160\165\142\154\151\153\141\040\123\154\157
\166\145\156\151\152\141\061\027\060\025\006\003\125\004\141\023
\016\126\101\124\123\111\055\061\067\066\065\071\071\065\067\061
\026\060\024\006\003\125\004\003\023\015\123\111\055\124\122\125
\123\124\040\122\157\157\164\060\202\001\242\060\015\006\011\052
\206\110\206\367\015\001\001\001\005\000\003\202\001\217\000\060
\202\001\212\002\202\001\201\000\323\313\234\055\302\340\060\103
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\145\061\044\377\113\260\070\331\251\123\327\065\321\333\267\113
\223\264\162\215\361\313\225\322\123\053\164\233\062\232\244\057
\076\002\006\335\257\160\025\241\252\317\021\207\212\146\173\313
\314\035\160\104\134\217\254\312\346\303\133\047\264\215\243\216
\020\277\156\124\164\010\160\212\043\350\312\307\164\304\146\221
\040\335\113\350\245\204\165\245\230\225\202\213\033\341\040\044
\007\106\253\014\145\066\100\147\213\165\356\251\331\221\051\033
\355\157\055\105\302\326\342\140\001\261\363\116\071\053\073\157
\077\205\276\010\366\123\053\173\242\311\105\241\104\201\200\146
\232\140\072\033\304\276\014\314\060\020\177\021\066\070\112\346
\233\241\226\123\234\224\314\021\306\004\114\242\125\113\377\200
\341\257\214\034\065\374\271\223\067\337\371\135\075\334\353\015
\047\154\104\311\131\146\053\126\157\377\004\033\367\365\151\303
\135\303\030\376\275\247\331\144\057\242\237\140\331\162\154\075
\074\165\362\045\047\230\056\072\270\311\335\115\165\275\253\260
\042\141\130\001\067\050\246\040\235\056\140\134\373\220\274\106
\103\270\376\155\330\300\146\042\044\153\064\170\042\345\271\342
\130\351\110\070\356\114\275\001\173\156\076\100\352\321\302\012
\102\223\147\303\046\057\077\007\133\317\257\343\035\350\072\342
\145\341\204\221\077\365\146\000\375\252\063\106\102\354\026\076
\322\023\145\057\016\011\123\366\344\052\165\024\234\031\063\026
\232\105\341\333\127\317\317\070\324\247\367\355\130\103\344\016
\230\134\304\340\061\077\224\244\157\113\112\242\325\112\215\046
\251\035\144\045\010\065\015\347\002\003\001\000\001\243\113\060
\111\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001
\001\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002
\001\006\060\023\006\003\125\035\043\004\014\060\012\200\010\114
\243\303\150\136\010\002\143\060\021\006\003\125\035\016\004\012
\004\010\114\243\303\150\136\010\002\143\060\015\006\011\052\206
\110\206\367\015\001\001\013\005\000\003\202\001\201\000\046\043
\205\273\135\101\031\156\222\203\212\356\001\213\004\065\031\177
\253\217\334\326\063\301\371\171\226\136\043\365\360\316\335\352
\333\141\073\132\257\335\130\351\102\211\100\357\371\331\147\021
\177\115\361\355\351\021\173\261\101\017\355\244\322\026\266\357
\301\375\213\366\021\053\054\357\374\007\006\106\014\317\002\013
\355\073\336\217\011\271\063\253\046\200\124\104\102\145\327\347
\257\315\120\016\312\310\210\241\022\234\052\225\073\076\124\074
\110\163\366\174\170\324\233\377\223\367\105\344\051\204\143\374
\372\176\032\347\134\340\162\127\260\057\170\035\060\306\023\375
\210\137\261\145\210\332\136\227\023\201\173\376\036\317\173\277
\127\060\301\160\222\103\246\231\360\125\237\230\305\043\102\275
\164\034\061\216\022\245\331\105\152\052\132\310\130\315\275\326
\335\076\065\013\031\177\003\034\316\007\017\207\105\223\025\241
\153\275\064\034\340\336\365\324\270\345\221\034\113\005\265\047
\046\274\317\321\011\230\026\306\341\361\125\113\072\173\155\336
\306\147\266\301\067\055\237\250\216\131\307\267\246\305\357\337
\026\342\355\336\262\267\363\242\066\244\050\062\072\012\224\313
\077\136\376\156\131\355\272\066\262\223\326\306\303\031\376\365

\231\170\353\107\107\345\255\102\172\354\274\173\311\056\101\116
\115\017\004\016\212\113\063\207\334\361\166\174\132\030\214\234
\012\022\327\242\263\302\205\207\256\155\061\120\142\062\041\240
\150\026\137\224\065\164\125\051\322\161\201\010\112\341\327\135
\252\124\001\263\033\174\131\256\276\254\014\312\270\100\144\147
\133\235\352\006\006\021\326\320\060\163\036\343\274\053
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "SI-TRUST Root"
Issuer: CN=SI-TRUST Root,2.5.4.97=VATSI-17659957,O=Republika Slovenija,C=SI
Serial
Number:90:ae:77:76:00:00:00:00:57:1d:d0:6f
Subject: CN=SI-TRUST Root,2.5.4.97=VATSI-17659957,O=Republika Slovenija,C=SI
Not Valid Before: Mon Apr 25 07:38:17 2016
Not Valid After: Fri Dec 25 08:08:17 2037
Fingerprint (MD5): 3a:ba:c6:f3:c7:d1:b7:8a:86:22:7d:ee:99:81:fc:90
Fingerprint (SHA1): 3a:49:79:b4:0f:a8:41:48:82:00:b5:82:fb:ee:b6:3a:ab:99:19:ae
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SI-TRUST Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\072\111\171\264\017\250\101\110\202\000\265\202\373\356\266\072
\253\231\031\256
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\072\272\306\363\307\321\267\212\206\042\175\356\231\201\374\220
END
CKA_ISSUER MULTILINE_OCTAL
\060\134\061\013\060\011\006\003\125\004\006\023\002\123\111\061
\034\060\032\006\003\125\004\012\023\023\122\145\160\165\142\154
\151\153\141\040\123\154\157\166\145\156\151\152\141\061\027\060
\025\006\003\125\004\141\023\016\126\101\124\123\111\055\061\067
\066\065\071\071\065\067\061\026\060\024\006\003\125\004\003\023
\015\123\111\055\124\122\125\123\124\040\122\157\157\164
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\015\000\220\256\167\166\000\000\000\000\127\035\320\157
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

```
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Swiss Government Root CA III"
# Issuer: CN=Swiss Government Root CA III,OU=www.pki.admin.ch,O=Swiss Government PKI,C=CH
# Serial Number:fb:1f:0b:42:2b:a8:41:3e:57:d1:ee:2a:6e:5a:4f:bb
# Subject: CN=Swiss Government Root CA III,OU=www.pki.admin.ch,O=Swiss Government PKI,C=CH
# Not Valid Before: Fri Apr 15 07:00:00 2016
# Not Valid After: Mon Apr 15 06:59:59 2041
# Fingerprint (MD5): 56:83:cb:f2:76:2c:93:dc:11:3b:ea:c2:09:19:17:46
# Fingerprint (SHA1): cc:ea:e3:24:45:cd:42:18:dd:18:8e:ad:ce:b3:13:3c:7f:b3:40:ad
CKA_CLASS
 CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Swiss Government Root CA III"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\156\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\035\060\033\006\003\125\004\012\023\024\123\167\151\163\163\040
\107\157\166\145\162\156\155\145\156\164\040\120\113\111\061\031
\060\027\006\003\125\004\013\023\020\167\167\167\056\160\153\151
\056\141\144\155\151\156\056\143\150\061\045\060\043\006\003\125
\004\003\023\034\123\167\151\163\163\040\107\157\166\145\162\156
\155\145\156\164\040\122\157\157\164\040\103\101\040\111\111\111
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\156\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\035\060\033\006\003\125\004\012\023\024\123\167\151\163\163\040
\107\157\166\145\162\156\155\145\156\164\040\120\113\111\061\031
\060\027\006\003\125\004\013\023\020\167\167\167\056\160\153\151
\056\141\144\155\151\156\056\143\150\061\045\060\043\006\003\125
\004\003\023\034\123\167\151\163\163\040\107\157\166\145\162\156
\155\145\156\164\040\122\157\157\164\040\103\101\040\111\111\111
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\021\000\373\037\013\102\053\250\101\076\127\321\356\052\156
\132\117\273
END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\126\060\202\004\076\240\003\002\001\002\002\021\000
\373\037\013\102\053\250\101\076\127\321\356\052\156\132\117\273
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\156\061\013\060\011\006\003\125\004\006\023\002\103\110\061\035
```

\060\033\006\003\125\004\012\023\024\123\167\151\163\163\040\107
\157\166\145\162\156\155\145\156\164\040\120\113\111\061\031\060
\027\006\003\125\004\013\023\020\167\167\167\056\160\153\151\056
\141\144\155\151\156\056\143\150\061\045\060\043\006\003\125\004
\003\023\034\123\167\151\163\163\040\107\157\166\145\162\156\155
\145\156\164\040\122\157\157\164\040\103\101\040\111\111\111\060
\036\027\015\061\066\060\064\061\065\060\067\060\060\060\060\132
\027\015\064\061\060\064\061\065\060\066\065\071\065\071\132\060
\156\061\013\060\011\006\003\125\004\006\023\002\103\110\061\035
\060\033\006\003\125\004\012\023\024\123\167\151\163\163\040\107
\157\166\145\162\156\155\145\156\164\040\120\113\111\061\031\060
\027\006\003\125\004\013\023\020\167\167\167\056\160\153\151\056
\141\144\155\151\156\056\143\150\061\045\060\043\006\003\125\004
\003\023\034\123\167\151\163\163\040\107\157\166\145\162\156\155
\145\156\164\040\122\157\157\164\040\103\101\040\111\111\111\060
\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001
\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001\000
\341\103\206\216\117\030\224\272\323\302\071\160\155\135\151\121
\204\131\274\273\310\177\057\375\027\243\170\234\275\330\222\343
\330\170\041\076\273\232\137\373\262\145\120\162\266\247\354\245
\347\301\305\000\004\343\314\263\002\112\371\000\333\157\155\273
\223\027\104\371\043\302\126\072\060\037\201\171\373\144\277\365
\124\205\277\073\053\157\225\004\006\135\150\012\303\217\270\053
\146\022\276\242\330\132\224\005\175\257\301\023\006\246\221\072
\077\031\013\205\203\300\226\135\363\201\310\023\212\365\020\113
\240\165\072\133\243\100\007\275\241\146\030\145\204\124\171\221
\232\323\162\204\146\325\015\346\073\132\352\372\333\241\124\375
\000\043\131\350\127\352\234\267\364\217\101\013\151\261\107\260
\232\057\142\332\232\031\255\240\225\060\315\056\255\147\273\155
\371\066\103\267\224\171\311\220\011\000\151\137\227\246\323\157
\045\350\357\142\207\167\327\246\331\116\034\137\141\146\320\261
\160\325\340\142\040\066\330\226\100\370\136\061\336\101\231\151
\020\326\240\356\075\255\023\056\322\224\112\215\200\035\334\214
\106\041\126\213\111\133\336\241\330\003\312\316\330\145\264\260
\005\075\046\151\112\155\245\214\171\057\244\217\022\170\020\351
\262\011\010\103\303\306\004\273\063\076\107\065\245\134\040\040
\012\342\066\370\143\206\344\015\364\076\024\171\276\105\007\264
\213\011\223\365\366\052\046\241\275\104\307\363\120\015\015\141
\233\073\021\337\250\203\352\042\054\225\104\015\071\101\143\115
\250\053\155\150\245\113\237\100\207\152\074\105\012\276\162\247
\210\276\360\071\052\133\357\131\244\040\357\264\334\303\332\101
\333\101\245\272\042\137\227\243\310\143\241\044\055\116\045\240
\303\027\050\305\210\101\223\226\144\146\067\103\005\233\025\174
\266\276\236\373\033\310\146\030\272\024\357\271\030\317\204\151
\233\237\275\202\007\022\155\033\031\277\060\176\361\222\016\300
\114\026\377\321\076\157\370\253\262\141\232\150\103\342\012\124
\307\001\243\127\216\363\104\006\042\303\160\246\273\245\263\314
\202\030\330\100\216\275\352\160\101\157\224\127\014\276\007\164

\156\216\223\172\031\217\306\150\374\033\245\105\263\271\205\251
\002\003\001\000\001\243\201\356\060\201\353\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003
\125\035\016\004\026\004\024\007\353\216\252\161\313\047\245\273
\307\061\140\276\355\037\317\240\063\304\346\060\201\250\006\003
\125\035\043\004\201\240\060\201\235\200\024\007\353\216\252\161
\313\047\245\273\307\061\140\276\355\037\317\240\063\304\346\241
\162\244\160\060\156\061\013\060\011\006\003\125\004\006\023\002
\103\110\061\035\060\033\006\003\125\004\012\023\024\123\167\151
\163\163\040\107\157\166\145\162\156\155\145\156\164\040\120\113
\111\061\031\060\027\006\003\125\004\013\023\020\167\167\167\056
\160\153\151\056\141\144\155\151\156\056\143\150\061\045\060\043
\006\003\125\004\003\023\034\123\167\151\163\163\040\107\157\166
\145\162\156\155\145\156\164\040\122\157\157\164\040\103\101\040
\111\111\111\202\021\000\373\037\013\102\053\250\101\076\127\321
\356\052\156\132\117\273\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\006\060\015\006\011\052\206\110\206\367\015
\001\001\013\005\000\003\202\002\001\000\263\117\146\274\336\351
\214\145\374\267\123\020\056\374\374\335\211\032\021\100\160\224
\061\211\225\166\306\326\052\314\075\247\243\301\270\316\022\153
\064\120\301\165\052\057\347\141\046\357\113\077\336\215\043\237
\015\230\076\037\073\326\152\316\074\361\337\321\113\167\214\250
\117\362\120\345\050\251\301\152\352\126\157\107\264\202\053\246
\047\262\045\360\335\043\012\077\351\075\214\045\354\303\265\117
\067\372\123\012\351\070\230\153\051\354\123\065\327\206\220\232
\372\143\272\166\124\343\120\117\312\326\347\300\161\320\322\347
\352\150\124\255\223\344\062\374\172\161\100\207\005\050\270\352
\270\302\074\215\000\136\301\116\050\126\345\303\154\265\365\252
\215\357\147\026\007\320\216\305\362\132\031\073\273\301\213\263
\104\237\014\245\307\313\336\323\104\140\247\275\033\151\332\016
\232\377\227\105\206\155\372\261\144\212\037\354\337\121\130\122
\115\326\352\272\006\366\123\161\133\336\351\125\365\054\023\162
\006\114\123\226\372\312\133\364\077\034\247\337\122\375\313\116
\175\237\020\100\224\247\241\125\272\163\076\164\164\060\370\243
\340\237\252\137\037\135\300\337\101\317\001\201\041\333\250\256
\263\063\255\106\023\167\233\073\060\264\244\340\027\202\300\212
\265\064\024\034\005\213\256\340\075\332\305\174\253\046\010\114
\275\112\140\351\160\354\250\130\210\165\147\361\030\227\166\015
\154\013\175\031\055\002\265\202\231\167\317\142\372\235\022\001
\053\331\365\264\127\261\072\353\325\051\360\214\323\102\247\065
\110\214\142\203\076\012\076\141\335\261\363\007\241\307\163\260
\211\360\266\131\173\243\043\330\067\003\065\210\253\105\167\143
\114\377\160\353\216\152\007\321\042\340\062\221\313\025\161\132
\053\305\204\076\221\315\335\264\231\147\215\264\252\214\145\027
\246\254\234\136\126\230\247\364\342\100\022\325\101\227\265\063
\361\355\027\241\245\002\020\341\144\265\100\332\036\255\321\246
\356\254\036\307\021\333\027\161\172\331\232\036\306\116\233\364
\250\263\224\237\011\212\177\114\233\376\010\013\054\253\120\320

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\067\262\111\065\032\267\036\051\041\166\341\233\360\241\252\130
\147\044\003\341\031\244\321\023\152\361
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Trust for "Swiss Government Root CA III"
# Issuer: CN=Swiss Government Root CA III,OU=www.pki.admin.ch,O=Swiss Government PKI,C=CH
# Serial Number:fb:1f:0b:42:2b:a8:41:3e:57:d1:ee:2a:6e:5a:4f:bb
# Subject: CN=Swiss Government Root CA III,OU=www.pki.admin.ch,O=Swiss Government PKI,C=CH
# Not Valid Before: Fri Apr 15 07:00:00 2016
# Not Valid After: Mon Apr 15 06:59:59 2041
# Fingerprint (MD5): 56:83:cb:f2:76:2c:93:dc:11:3b:ea:c2:09:19:17:46
# Fingerprint (SHA1): cc:ea:e3:24:45:cd:42:18:dd:18:8e:ad:ce:b3:13:3c:7f:b3:40:ad
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Swiss Government Root CA III"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\314\352\343\044\105\315\102\030\335\030\216\255\316\263\023\074
\177\263\100\255
END
CKA_CERT_MD5_HASH
 MULTILINE_OCTAL
\126\203\313\362\166\054\223\334\021\073\352\302\011\031\027\106
END
CKA_ISSUER MULTILINE_OCTAL
\060\156\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\035\060\033\006\003\125\004\012\023\024\123\167\151\163\163\040
\107\157\166\145\162\156\155\145\156\164\040\120\113\111\061\031
\060\027\006\003\125\004\013\023\020\167\167\167\056\160\153\151
\056\141\144\155\151\156\056\143\150\061\045\060\043\006\003\125
\004\003\023\034\123\167\151\163\163\040\107\157\166\145\162\156
\155\145\156\164\040\122\157\157\164\040\103\101\040\111\111\111
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\373\037\013\102\053\250\101\076\127\321\356\052\156
\132\117\273
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
```

```
# Microsoft Code Signing Only Certificate
#
 Certificate "Application CA G4 Root"
# Issuer: CN=Application CA G4 Root,O=LGPKI,C=JP
# Serial Number:31:a5:f3:ca:90:ea:23:ac:d2:9e:bd
# Subject: CN=Application CA G4 Root,O=LGPKI,C=JP
# Not Valid Before: Wed Feb 15 15:00:00 2017
# Not Valid After: Sun Feb 15 14:59:59 2037
# Fingerprint (MD5): 80:88:87:a3:29:65:03:a4:53:f1:23:08:41:e6:6b:66
# Fingerprint (SHA1): 21:da:ce:4c:2c:34:e6:64:68:ee:06:31:4d:b0:55:a0:a8:9d:4c:1d
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Application CA G4 Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\076\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\016\060\014\006\003\125\004\012\023\005\114\107\120\113\111\061
\037\060\035\006\003\125\004\003\023\026\101\160\160\154\151\143
\141\164\151\157\156\040\103\101\040\107\064\040\122\157\157\164
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\076\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\016\060\014\006\003\125\004\012\023\005\114\107\120\113\111\061
\037\060\035\006\003\125\004\003\023\026\101\160\160\154\151\143
\141\164\151\157\156\040\103\101\040\107\064\040\122\157\157\164
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\013\061\245\363\312\220\352\043\254\322\236\275
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\144\060\202\002\114\240\003\002\001\002\002\013\061
\245\363\312\220\352\043\254\322\236\275\060\015\006\011\052\206
\110\206\367\015\001\001\013\005\000\060\076\061\013\060\011\006
\003\125\004\006\023\002\112\120\061\016\060\014\006\003\125\004
\012\023\005\114\107\120\113\111\061\037\060\035\006\003\125\004
\003\023\026\101\160\160\154\151\143\141\164\151\157\156\040\103
\101\040\107\064\040\122\157\157\164\060\036\027\015\061\067\060
\062\061\065\061\065\060\060\060\060\132\027\015\063\067\060\062
\061\065\061\064\065\071\065\071\132\060\076\061\013\060\011\006
\003\125\004\006\023\002\112\120\061\016\060\014\006\003\125\004
\012\023\005\114\107\120\113\111\061\037\060\035\006\003\125\004
\003\023\026\101\160\160\154\151\143\141\164\151\157\156\040\103
\101\040\107\064\040\122\157\157\164\060\202\001\042\060\015\006
\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017
```

\000\060\202\001\012\002\202\001\001\000\257\253\307\345\214\246
\130\236\057\326\005\311\221\167\060\276\336\032\324\016\143\142
\321\314\055\261\321\206\070\215\035\205\146\123\237\252\101\145
\340\130\322\345\051\276\224\250\225\223\074\137\152\305\233\237
\064\350\155\301\306\323\247\345\103\240\022\060\300\071\064\140
\014\213\364\150\365\110\337\351\216\034\256\110\247\273\252\075
\170\267\342\111\273\301\043\004\132\033\220\001\305\175\253\112
\001\241\302\223\152\322\205\263\266\347\166\353\153\157\070\353
\040\122\060\225\010\365\371\054\356\310\300\165\271\001\355\301
\067\126\060\134\235\177\144\302\312\100\040\271\225\205\274\245
\007\175\014\276\056\241\335\306\046\351\052\051\154\237\050\230
\051\121\350\166\023\033\357\056\013\067\132\063\236\300\045\147
\252\017\055\250\324\222\046\070\001\247\320\142\030\056\042\070
\070\170\013\272\122\231\241\174\046\002\261\342\305\342\336\316
\212\002\104\204\242\243\351\213\210\143\061\311\057\070\000\351
\304\002\115\036\043\047\022\110\334\021\261\360\322\342\016\060
\031\257\003\241\007\263\065\224\042\245\002\003\001\000\001\243
\143\060\141\060\035\006\003\125\035\016\004\026\004\024\156\334
\012\065\037\040\302\350\241\323\175\005\116\117\114\140\345\244
\304\147\060\016\006\003\125\035\017\001\001\377\004\004\003\002
\001\006\060\017\006\003\125\035\023\001\001\377\004\005\060\003
\001\001\377\060\037\006\003\125\035\043\004\030\060\026\200\024
\156\334\012\065\037\040\302\350\241\323\175\005\116\117\114\140
\345\244\304\147\060\015\006\011\052\206\110\206\367\015\001\001
\013\005\000\003\202\001\001\000\125\063\325\100\267\032\176\117
\334\164\203\016\104\272\077\275\122\225\310\223\226\043\362\001
\271\024\353\312\022\164\315\141\210\064\257\115\136\364\131\212
\253\036\330\343\131\301\036\370\060\265\100\306\273\270\257\321
\355\077\154\252\163\230\202\344\230\064\256\222\101\016\131\066
\032\272\120\034\026\364\027\072\054\033\342\227\157\262\257\321
\332\336\024\122\337\200\074\307\117\075\207\236\272\225\275\170
\274\125\074\211\366\056\046\325\025\345\320\100\022\305\263\161
\077\154\146\037\243\374\113\265\116\342\156\334\200\007\303\371
\050\024\173\367\136\026\152\103\247\256\221\001\037\117\145\251
\110\263\316\156\032\006\041\244\323\061\210\210\245\111\021\202
\153\353\271\235\140\376\237\376\305\367\370\177\253\067\356\257
\347\130\106\272\011\344\135\071\247\113\004\330\003\002\311\140
\052\136\125\151\021\013\140\170\201\172\364\161\365\217\106\256
\217\004\250\227\034\200\211\043\143\333\376\353\246\027\016\131
\266\056\271\206\353\137\136\154\335\201\347\253\060\201\043\220
\047\261\367\053\220\071\013\270
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER
CK_BBOOL CK_FALSE

```
# Microsoft Code Signing Only Certificate
# Trust for "Application CA G4 Root"
# Issuer: CN=Application CA G4 Root,O=LGPKI,C=JP
# Serial Number:31:a5:f3:ca:90:ea:23:ac:d2:9e:bd
# Subject: CN=Application CA G4 Root,O=LGPKI,C=JP
# Not Valid Before: Wed Feb 15 15:00:00 2017
# Not Valid After: Sun Feb 15 14:59:59 2037
# Fingerprint (MD5): 80:88:87:a3:29:65:03:a4:53:f1:23:08:41:e6:6b:66
# Fingerprint (SHA1): 21:da:ce:4c:2c:34:e6:64:68:ee:06:31:4d:b0:55:a0:a8:9d:4c:1d
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Application CA G4 Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\041\332\316\114\054\064\346\144\150\356\006\061\115\260\125\240
\250\235\114\035
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\200\210\207\243\051\145\003\244\123\361\043\010\101\346\153\146
END
CKA_ISSUER MULTILINE_OCTAL
\060\076\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\016\060\014\006\003\125\004\012\023\005\114\107\120\113\111\061
\037\060\035\006\003\125\004\003\023\026\101\160\160\154\151\143
\141\164\151\157\156\040\103\101\040\107\064\040\122\157\157\164
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\013\061\245\363\312\220\352\043\254\322\236\275
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "SSC GDL CA Root A"
# Issuer: CN=SSC GDL CA Root A,OU=CA ROOT Services,O=Skaitmeninio sertifikavimo centras,C=LT
# Serial Number:50:96:6e:72:bd:10:d6:8c:4f:6b:c7:62:3f:9c:70:38
# Subject: CN=SSC GDL CA Root A,OU=CA ROOT Services,O=Skaitmeninio sertifikavimo centras,C=LT
# Not Valid Before: Tue Jun 04 13:00:47 2013
# Not Valid After: Sat Jun 04 13:00:47 2033
# Fingerprint (MD5): 59:3f:bc:3d:18:77:a4:ae:1c:d8:a2:25:cd:c3:44:3e
#
 Fingerprint (SHA1): 0c:20:09:a4:a8:8d:8b:42:02:18:52:50:54:0c:c4:2b:df:b5:b0:89
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
```

CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSC GDL CA Root A"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\161\061\013\060\011\006\003\125\004\006\023\002\114\124\061
\053\060\051\006\003\125\004\012\023\042\123\153\141\151\164\155
\145\156\151\156\151\157\040\163\145\162\164\151\146\151\153\141
\166\151\155\157\040\143\145\156\164\162\141\163\061\031\060\027
\006\003\125\004\013\023\020\103\101\040\122\117\117\124\040\123
\145\162\166\151\143\145\163\061\032\060\030\006\003\125\004\003
\023\021\123\123\103\040\107\104\114\040\103\101\040\122\157\157
\164\040\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\161\061\013\060\011\006\003\125\004\006\023\002\114\124\061
\053\060\051\006\003\125\004\012\023\042\123\153\141\151\164\155
\145\156\151\156\151\157\040\163\145\162\164\151\146\151\153\141
\166\151\155\157\040\143\145\156\164\162\141\163\061\031\060\027
\006\003\125\004\013\023\020\103\101\040\122\117\117\124\040\123
\145\162\166\151\143\145\163\061\032\060\030\006\003\125\004\003
\023\021\123\123\103\040\107\104\114\040\103\101\040\122\157\157
\164\040\101
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\120\226\156\162\275\020\326\214\117\153\307\142\077\234
\160\070
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\256\060\202\003\226\240\003\002\001\002\002\020\120
\226\156\162\275\020\326\214\117\153\307\142\077\234\160\070\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\161
\061\013\060\011\006\003\125\004\006\023\002\114\124\061\053\060
\051\006\003\125\004\012\023\042\123\153\141\151\164\155\145\156
\151\156\151\157\040\163\145\162\164\151\146\151\153\141\166\151
\155\157\040\143\145\156\164\162\141\163\061\031\060\027\006\003
\125\004\013\023\020\103\101\040\122\117\117\124\040\123\145\162
\166\151\143\145\163\061\032\060\030\006\003\125\004\003\023\021
\123\123\103\040\107\104\114\040\103\101\040\122\157\157\164\040
\101\060\036\027\015\061\063\060\066\060\064\061\063\060\060\064
\067\132\027\015\063\063\060\066\060\064\061\063\060\060\064\067
\132\060\161\061\013\060\011\006\003\125\004\006\023\002\114\124
\061\053\060\051\006\003\125\004\012\023\042\123\153\141\151\164
\155\145\156\151\156\151\157\040\163\145\162\164\151\146\151\153
\141\166\151\155\157\040\143\145\156\164\162\141\163\061\031\060
\027\006\003\125\004\013\023\020\103\101\040\122\117\117\124\040

\123\145\162\166\151\143\145\163\061\032\060\030\006\003\125\004
\003\023\021\123\123\103\040\107\104\114\040\103\101\040\122\157
\157\164\040\101\060\202\002\042\060\015\006\011\052\206\110\206
\367\015\001\001\001\005\000\003\202\002\017\000\060\202\002\012
\002\202\002\001\000\237\134\112\374\034\153\267\031\227\331\001
\067\076\012\351\030\206\323\005\352\242\332\337\011\202\127\356
\155\053\215\232\026\075\125\076\211\327\311\276\341\001\243\200
\065\243\106\354\341\021\355\250\074\225\345\072\122\201\312\116
\230\010\052\017\204\334\273\351\244\371\171\266\111\302\025\236
\240\225\350\017\110\367\120\327\371\246\103\324\007\013\060\101
\311\066\022\142\267\154\170\013\006\077\056\263\236\352\060\375
\101\143\117\204\054\067\316\007\246\071\144\173\161\025\133\053
\001\362\327\175\230\015\030\076\333\205\232\340\001\120\041\044
\270\033\243\143\103\323\201\133\115\014\201\116\070\153\316\140
\305\352\007\342\047\342\353\366\303\124\232\310\311\263\321\053
\062\067\002\274\155\173\236\220\167\043\215\223\023\046\073\207
\127\243\145\117\046\130\024\152\143\045\232\345\141\372\034\127
\375\015\054\151\017\306\012\360\046\071\027\002\243\326\163\201
\102\303\102\061\203\213\340\372\113\116\130\141\061\050\222\074
\306\311\020\010\311\014\133\104\254\143\302\327\142\031\362\161
\356\040\267\111\203\031\236\107\332\126\305\034\254\244\071\150
\027\137\021\032\154\252\245\222\217\275\033\313\305\340\002\200
\125\323\160\123\345\213\052\376\102\352\275\073\134\343\122\000
\175\170\077\046\314\021\256\064\321\062\014\370\173\240\321\175
\075\343\212\274\276\036\036\222\077\070\262\137\062\136\065\304
\176\302\222\015\235\266\313\131\325\353\022\152\335\162\041\121
\021\260\163\345\062\351\326\314\016\335\263\071\132\042\357\344
\365\351\006\151\206\052\174\163\257\030\042\163\054\066\045\334
\125\251\122\061\263\212\216\025\175\262\116\020\173\120\212\000
\114\272\207\342\105\123\167\176\115\145\002\153\214\223\266\153
\165\355\357\226\267\110\216\250\340\272\271\202\262\122\155\041
\377\222\272\321\076\260\134\261\253\031\016\031\163\106\053\323
\122\110\145\064\332\004\065\322\170\076\317\143\065\244\123\346
\113\343\120\203\275\363\233\207\262\041\332\110\241\172\113\354
\262\342\361\324\045\005\224\123\026\114\053\146\044\020\310\340
\327\234\022\244\224\302\001\043\223\241\000\246\340\156\273\071
\342\365\172\150\251\002\003\001\000\001\243\102\060\100\060\016
\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060\017
\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060
\035\006\003\125\035\016\004\026\004\024\240\021\176\037\344\224
\144\121\073\022\071\172\154\335\111\223\371\375\300\134\060\015
\006\011\052\206\110\206\367\015\001\001\013\005\000\003\202\002
\001\000\014\361\113\214\341\117\026\026\322\352\142\222\266\255
\324\122\216\013\031\144\113\071\360\230\071\163\112\122\352\116
\315\216\144\107\260\060\217\074\017\055\332\042\145\363\031\130
\062\074\177\203\217\012\014\345\124\346\251\276\270\256\227\126
\346\267\015\031\174\275\227\054\152\052\245\126\163\202\336\116
\230\213\075\034\304\320\053\053\273\305\014\370\116\376\055\256

\277\251\147\177\127\263\157\355\377\213\323\126\014\357\060\214
\301\136\246\351\131\212\074\056\334\107\317\314\224\136\203\254
\024\166\372\176\274\014\243\016\134\033\210\354\053\033\065\150
\210\261\365\173\305\363\263\305\032\274\373\357\265\136\337\360
\071\036\165\150\355\104\302\113\042\160\076\134\153\224\311\020
\254\360\375\310\057\176\043\342\201\247\033\316\014\272\105\062
\047\120\105\071\254\340\376\000\264\052\165\007\014\147\033\273
\161\300\202\343\227\126\227\320\344\167\131\271\377\174\147\134
\204\145\273\010\066\250\113\116\221\302\151\376\035\354\232\023
\037\165\063\054\051\306\351\260\150\220\043\377\043\137\177\306
\073\247\050\020\270\037\242\210\315\144\026\045\117\343\200\267
\300\112\200\127\360\220\333\072\262\002\062\040\325\153\310\330
\024\100\311\331\070\031\124\070\353\350\145\073\157\134\325\105
\172\257\333\331\330\225\236\266\247\225\315\034\011\035\002\036
\001\351\004\225\135\205\227\070\025\275\250\307\231\336\323\104
\102\135\206\203\101\044\174\121\211\252\103\011\047\064\350\361
\012\265\226\113\264\363\240\376\362\000\215\152\073\164\271\103
\271\146\271\317\352\353\067\316\377\233\351\043\370\154\323\043
\375\350\351\340\156\370\373\015\122\100\212\254\200\153\040\020
\135\320\250\375\252\075\071\021\053\057\377\122\221\072\240\334
\212\307\166\066\021\131\205\273\060\212\244\110\060\234\141\103
\253\324\257\166\355\300\277\027\224\170\065\333\110\067\010\324
\216\152\000\351\042\335\312\360\323\022\070\074\230\237\140\114
\155\077\102\375\357\214\232\267\036\161\172\032\111\324\140\311
\353\217\364\351\306\277\160\124\210\322\307\127\073\126\315\327
\156\334\355\015\164\176\345\165\101\221\127\223\064\175\251\365
\275\207
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "SSC GDL CA Root A"
Issuer: CN=SSC GDL CA Root A,OU=CA ROOT Services,O=Skaitmeninio sertifikavimo centras,C=LT
Serial Number:50:96:6e:72:bd:10:d6:8c:4f:6b:c7:62:3f:9c:70:38
Subject: CN=SSC GDL CA Root A,OU=CA ROOT Services,O=Skaitmeninio sertifikavimo centras,C=LT
Not Valid Before: Tue Jun 04 13:00:47 2013
Not Valid After: Sat Jun 04 13:00:47 2033
Fingerprint (MD5): 59:3f:bc:3d:18:77:a4:ae:1c:d8:a2:25:cd:c3:44:3e
#
Fingerprint (SHA1): 0c:20:09:a4:a8:8d:8b:42:02:18:52:50:54:0c:c4:2b:df:b5:b0:89
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSC GDL CA Root A"

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\014\040\011\244\250\215\213\102\002\030\122\120\124\014\304\053
\337\265\260\211
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\131\077\274\075\030\167\244\256\034\330\242\045\315\303\104\076
END
CKA_ISSUER MULTILINE_OCTAL
\060\161\061\013\060\011\006\003\125\004\006\023\002\114\124\061
\053\060\051\006\003\125\004\012\023\042\123\153\141\151\164\155
\145\156\151\156\151\157\040\163\145\162\164\151\146\151\153\141
\166\151\155\157\040\143\145\156\164\162\141\163\061\031\060\027
\006\003\125\004\013\023\020\103\101\040\122\117\117\124\040\123
\145\162\166\151\143\145\163\061\032\060\030\006\003\125\004\003
\023\021\123\123\103\040\107\104\114\040\103\101\040\122\157\157
\164\040\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\120\226\156\162\275\020\326\214\117\153\307\142\077\234
\160\070
END
CKA_TRUST_SERVER_AUTH
 CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Halcom Root Certificate Authority"
# Issuer: CN=Halcom Root Certificate Authority,2.5.4.97=VATSI-43353126,O=Halcom d.d.,C=SI
# Serial Number: 843675 (0xcdf9b)
# Subject: CN=Halcom Root Certificate Authority,2.5.4.97=VATSI-43353126,O=Halcom d.d.,C=SI
# Not Valid Before: Fri Jun 10 07:07:50 2016
# Not Valid After: Tue Jun 10 07:07:50 2036
# Fingerprint (MD5): 69:16:83:a1:f7:27:b9:ec:7c:d2:c6:b3:79:b2:a3:61
# Fingerprint (SHA1): 23:d7:31:fe:dc:5c:8b:b9:7d:e6:dc:8e:13:b4:11:bd:4f:24:00:4f
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL
 UTF8 "Halcom Root Certificate Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\150\061\013\060\011\006\003\125\004\006\023\002\123\111\061
\024\060\022\006\003\125\004\012\023\013\110\141\154\143\157\155
\040\144\056\144\056\061\027\060\025\006\003\125\004\141\023\016
\126\101\124\123\111\055\064\063\063\065\063\061\062\066\061\052
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\060\050\006\003\125\004\003\023\041\110\141\154\143\157\155\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\145
\040\101\165\164\150\157\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\150\061\013\060\011\006\003\125\004\006\023\002\123\111\061
\024\060\022\006\003\125\004\012\023\013\110\141\154\143\157\155
\040\144\056\144\056\061\027\060\025\006\003\125\004\141\023\016
\126\101\124\123\111\055\064\063\063\065\063\061\062\066\061\052
\060\050\006\003\125\004\003\023\041\110\141\154\143\157\155\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\145
\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\003\014\337\233
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\200\060\202\002\150\240\003\002\001\002\002\003\014
\337\233\060\015\006\011\052\206\110\206\367\015\001\001\013\005
\000\060\150\061\013\060\011\006\003\125\004\006\023\002\123\111
\061\024\060\022\006\003\125\004\012\023\013\110\141\154\143\157
\155\040\144\056\144\056\061\027\060\025\006\003\125\004\141\023
\016\126\101\124\123\111\055\064\063\063\065\063\061\062\066\061
\052\060\050\006\003\125\004\003\023\041\110\141\154\143\157\155
\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164
\145\040\101\165\164\150\157\162\151\164\171\060\036\027\015\061
\066\060\066\061\060\060\067\060\067\065\060\132\027\015\063\066
\060\066\061\060\060\067\060\067\065\060\132\060\150\061\013\060
\011\006\003\125\004\006\023\002\123\111\061\024\060\022\006\003
\125\004\012\023\013\110\141\154\143\157\155\040\144\056\144\056
\061\027\060\025\006\003\125\004\141\023\016\126\101\124\123\111
\055\064\063\063\065\063\061\062\066\061\052\060\050\006\003\125
\004\003\023\041\110\141\154\143\157\155\040\122\157\157\164\040
\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150
\157\162\151\164\171\060\202\001\042\060\015\006\011\052\206\110
\206\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001
\012\002\202\001\001\000\351\122\246\306\032\357\143\273\255\201
\364\220\262\132\217\015\325\026\063\264\034\030\373\313\211\052
\060\273\145\201\304\341\373\002\251\224\007\166\345\327\025\344
\172\144\020\200\352\074\320\263\242\255\256\034\037\352\273\201
\141\230\324\371\215\151\225\304\105\056\003\011\312\206\372\134
\132\021\027\100\060\076\360\306\143\011\311\361\215\101\245\126
\015\005\144\151\113\130\254\052\051\226\273\100\063\026\064\113
\147\154\327\361\264\106\245\352\131\250\103\150\017\214\070\052
\252\074\366\104\003\206\370\212\333\105\041\053\051\036\022\267
\372\245\145\101\336\006\010\130\160\225\076\364\114\331\353\017

\051\251\221\212\236\255\312\022\365\345\225\346\070\331\032\246
\213\234\117\246\110\023\020\245\171\104\275\152\073\051\365\026
\167\100\313\176\233\134\337\276\213\353\347\240\031\157\237\025
\077\047\236\051\261\365\015\374\137\107\242\074\335\056\013\002
\373\364\215\352\354\014\261\371\264\005\254\371\217\251\075\156
\054\035\071\237\320\116\237\116\310\152\236\200\003\141\334\317
\370\155\224\313\017\317\002\003\001\000\001\243\063\060\061\060
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377
\060\021\006\003\125\035\016\004\012\004\010\102\256\246\103\307
\230\050\260\060\013\006\003\125\035\017\004\004\003\002\001\006
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\003
\202\001\001\000\122\271\171\320\333\143\376\031\201\373\014\371
\301\345\120\131\312\235\262\373\134\063\320\070\250\253\265\032
\116\123\045\165\042\323\111\277\312\201\317\323\341\173\243\221
\106\165\312\032\353\331\365\135\274\173\206\065\375\201\227\234
\204\327\046\230\042\374\261\065\320\251\225\266\174\377\344\227
\264\100\176\111\135\150\310\342\324\071\165\047\117\003\221\262
\061\127\277\206\327\155\312\161\000\042\067\320\073\130\044\120
\240\234\214\232\211\216\365\050\106\154\347\026\355\260\201\253
\364\106\046\257\246\350\032\105\167\160\026\222\262\173\161\161
\334\367\337\111\147\300\063\010\016\056\123\301\167\253\307\112
\221\114\022\357\347\016\011\345\165\061\040\256\156\374\132\212
\200\234\020\260\333\250\112\314\363\053\334\066\064\246\367\251
\013\147\235\220\313\075\046\237\165\315\114\311\035\006\012\165
\213\122\300\201\360\321\046\254\314\222\246\024\234\134\074\026
\102\373\223\314\002\250\023\363\332\256\012\303\270\025\364\260
\320\324\340\026\040\117\254\120\230\170\046\224\036\150\353\224
\162\376\367\213
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Halcom Root Certificate
 Authority"
Issuer: CN=Halcom Root Certificate Authority,2.5.4.97=VATSI-43353126,O=Halcom d.d.,C=SI
Serial Number: 843675 (0xcdf9b)
Subject: CN=Halcom Root Certificate Authority,2.5.4.97=VATSI-43353126,O=Halcom d.d.,C=SI
Not Valid Before: Fri Jun 10 07:07:50 2016
Not Valid After: Tue Jun 10 07:07:50 2036
Fingerprint (MD5): 69:16:83:a1:f7:27:b9:ec:7c:d2:c6:b3:79:b2:a3:61
Fingerprint (SHA1): 23:d7:31:fe:dc:5c:8b:b9:7d:e6:dc:8e:13:b4:11:bd:4f:24:00:4f
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE

```
CKA_LABEL UTF8 "Halcom Root Certificate Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\043\327\061\376\334\134\213\271\175\346\334\216\023\264\021\275
\117\044\000\117
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\151\026\203\241\367\047\271\354\174\322\306\263\171\262\243\141
END
CKA_ISSUER MULTILINE_OCTAL
\060\150\061\013\060\011\006\003\125\004\006\023\002\123\111\061
\024\060\022\006\003\125\004\012\023\013\110\141\154\143\157\155
\040\144\056\144\056\061\027\060\025\006\003\125\004\141\023\016
\126\101\124\123\111\055\064\063\063\065\063\061\062\066\061\052
\060\050\006\003\125\004\003\023\041\110\141\154\143\157\155\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\145
\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\003\014\337\233
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Application CA G3 Root"
# Issuer: CN=Application CA G3 Root,O=LGPKI,C=JP
# Serial Number: 49 (0x31)
# Subject: CN=Application CA G3 Root,O=LGPKI,C=JP
# Not Valid Before: Tue Jun 03 15:00:00 2014
# Not Valid After: Sat Jun 03 14:59:59 2034
# Fingerprint (MD5): 47:5e:d1:73:5a:e8:95:77:04:01:a3:3f:33:02:5c:20
# Fingerprint (SHA1):
 6f:38:84:56:8e:99:c8:c6:ac:0e:5d:de:2d:b2:02:dd:00:2e:36:63
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Application CA G3 Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\076\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\016\060\014\006\003\125\004\012\023\005\114\107\120\113\111\061
\037\060\035\006\003\125\004\003\023\026\101\160\160\154\151\143
\141\164\151\157\156\040\103\101\040\107\063\040\122\157\157\164
END
```

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\076\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\016\060\014\006\003\125\004\012\023\005\114\107\120\113\111\061
\037\060\035\006\003\125\004\003\023\026\101\160\160\154\151\143
\141\164\151\157\156\040\103\101\040\107\063\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\061
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\132\060\202\002\102\240\003\002\001\002\002\001\061
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\076\061\013\060\011\006\003\125\004\006\023\002\112\120\061\016
\060\014\006\003\125\004\012\023\005\114\107\120\113\111\061\037
\060\035\006\003\125\004\003\023\026\101\160\160\154\151\143\141
\164\151\157\156\040\103\101\040\107\063\040\122\157\157\164\060
\036\027\015\061\064\060\066\060\063\061\065\060\060\060\060\132
\027\015\063\064\060\066\060\063\061\064\065\071\065\071\132\060
\076\061\013\060\011\006\003\125\004\006\023\002\112\120\061\016
\060\014\006\003\125\004\012\023\005\114\107\120\113\111\061\037
\060\035\006\003\125\004\003\023\026\101\160\160\154\151\143\141
\164\151\157\156\040\103\101\040\107\063\040\122\157\157\164\060
\202\001\042\060\015\006\011\052\206\110\206\367\015\001\001\001
\005\000\003\202\001\017\000\060\202\001\012\002\202\001\001\000
\315\105\076\367\321\226\042\134\221\057\076\012\000\003\314\266
\367\154\124\374\050\067\324\004\030\354\255\230\311\257\323\245
\271\347\331\277\116\346\243\231\074\231\156\241\040\036\106\033
\342\165\125\274\322\354\366\210\032\354\064\105\113\203\235\323
\262\346\335\007\211\301\010\331\370\073\213\222\144\162\135\232
\073\314\255\067\211\307\334\140\171\010\340\160\254\367\053\355
\237\003\111\037\216\076\203\250\156\342\222\134\124\321\171\337
\354\030\072\175\270\155\217\326\243\045\115\255\037\100\246\137
\324\252\116\261\160\030\131\231\362\013\124\151\076\171\050\104
\210\367\161\227\315\177\005\334\312\334\166\112\220\114\153\140
\350\372\046\061\330\265\370\347\374\155\213\044\152\266\357\102
\327\043\124\305\032\143\212\073\307\374\252\155\074\217\313\154
\332\040\260\362\274\145\034\001\114\042\225\015\034\043\037\254
\325\371\316\165\133\352\060\275\114\001\044\037\165\324\141\111
\303\033\231\145\216\010\134\071\070\315\051\303\070\105\315\144
\171\267\233\115\107\352\130\062\372\246\366\222\360\301\267\137
\002\003\001\000\001\243\143\060\141\060\035\006\003\125\035\016
\004\026\004\024\251\065\052\110\276\054\067\355\206\333\174\125
\207\000\046\276\030\055\134\056\060\016\006\003\125\035\017\001
\001\377\004\004\003\002\001\006\060\017\006\003\125\035\023\001
\001\377\004\005\060\003\001\001\377\060\037\006\003\125\035\043
\004\030\060\026\200\024\251\065\052\110\276\054\067\355\206\333
\174\125\207\000\046\276\030\055\134\056\060\015\006\011\052\206

\110\206\367\015\001\001\013\005\000\003\202\001\001\000\266\202
\275\305\106\320\161\213\245\221\075\176\055\132\371\234\204\175
\007\047\225\035\347\115\310\174\354\346\223\350\126\032\172\060
\110\073\014\372\116\365\011\262\257\210\255\224\354\375\262\255
\057\346\005\164\041\033\204\213\070\052\303\355\357\106\150\265
\335\122\372\160\302\165\117\377\243\101\056\074\027\224\114\011
\042\264\216\301\177\304\246\254\355\203\150\317\145\136\354\172
\275\305\146\356\320\243\177\362\127\261\010\302\171\160\353\162
\177\101\131\011\171\165\361\274\261\041\376\203\263\104\075\211
\243\276\261\172\330\235\303\037\346\304\124\341\215\345\330\120
\334\344\126\067\173\276\050\000\363\054\167\332\043\177\140\230
\075\005\026\362\170\151\255\231\303\072\164\154\076\232\262\224
\355\217\252\366\123\153\347\310\267\350\074\214\373\307\174\117
\031\135\244\146\025\351\177\207\240\320\325\255\040\244\106\011
\105\254\345\310\145\207\273\006\337\374\327\150\126\103\163\242
\000\231\062\222\302\016\240\034\016\221\275\225\130\274\223\237
\204\302\245\146\347\145\315\051\342\142\362\005\222\140
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Application CA G3 Root"
Issuer: CN=Application CA G3 Root,O=LGPKI,C=JP
Serial Number: 49 (0x31)
Subject: CN=Application CA G3 Root,O=LGPKI,C=JP
Not Valid Before: Tue Jun 03 15:00:00 2014
Not Valid After: Sat Jun 03 14:59:59 2034
Fingerprint (MD5): 47:5e:d1:73:5a:e8:95:77:04:01:a3:3f:33:02:5c:20
Fingerprint (SHA1): 6f:38:84:56:8e:99:c8:c6:ac:0e:5d:de:2d:b2:02:dd:00:2e:36:63
CKA_CLASS
 CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Application CA G3 Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\157\070\204\126\216\231\310\306\254\016\135\336\055\262\002\335
\000\056\066\143
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\107\136\321\163\132\350\225\167\004\001\243\077\063\002\134\040
END
CKA_ISSUER MULTILINE_OCTAL
\060\076\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\016\060\014\006\003\125\004\012\023\005\114\107\120\113\111\061

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\037\060\035\006\003\125\004\003\023\026\101\160\160\154\151\143
\141\164\151\157\156\040\103\101\040\107\063\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\061
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL
 CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "GLOBALTRUST 2015"
# Issuer: CN=GLOBALTRUST 2015,OU=GLOBALTRUST Certification Service,O=e-commerce monitoring
GmbH,L=Wien,ST=Wien,C=AT
# Serial Number: 0 (0x0)
# Subject: CN=GLOBALTRUST 2015,OU=GLOBALTRUST Certification Service,O=e-commerce monitoring
GmbH,L=Wien,ST=Wien,C=AT
# Not Valid Before: Thu Jun 11 00:00:00 2015
# Not Valid After: Sun Jun 10 00:00:00 2040
# Fingerprint (MD5): da:5a:b9:da:8e:0a:38:d4:82:63:03:9d:6c:96:6c:ed
# Fingerprint (SHA1): 46:5b:26:be:be:71:06:dd:85:44:c1:13:9d:9f:a2:57:00:c1:d7:bd
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GLOBALTRUST 2015"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\227\061\013\060\011\006\003\125\004\006\023\002\101\124
\061\015\060\013\006\003\125\004\010\023\004\127\151\145\156\061
\015\060\013\006\003\125\004\007\023\004\127\151\145\156\061\043
\060\041\006\003\125\004\012\023\032\145\055\143\157\155\155\145
\162\143\145\040\155\157\156\151\164\157\162\151\156\147\040\107
\155\142\110\061\052\060\050\006\003\125\004\013\023\041\107\114
\117\102\101\114\124\122\125\123\124\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\123\145\162\166\151\143\145\061
\031\060\027\006\003\125\004\003\023\020\107\114\117\102\101\114
\124\122\125\123\124\040\062\060\061\065
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\227\061\013\060\011\006\003\125\004\006\023\002\101\124
\061\015\060\013\006\003\125\004\010\023\004\127\151\145\156\061
\015\060\013\006\003\125\004\007\023\004\127\151\145\156\061\043
\060\041\006\003\125\004\012\023\032\145\055\143\157\155\155\145
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\162\143\145\040\155\157\156\151\164\157\162\151\156\147\040\107
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\015\060\013\006\003\125\004\010\023\004\127\151\145\156\061\015
\060\013\006\003\125\004\007\023\004\127\151\145\156\061\043\060
\041\006\003\125\004\012\023\032\145\055\143\157\155\155\145\162
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\142\110\061\052\060\050\006\003\125\004\013\023\041\107\114\117
\102\101\114\124\122\125\123\124\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\123\145\162\166\151\143\145\061\031
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\122\125\123\124\040\062\060\061\065\060\036\027\015\061\065\060
\066\061\061\060\060\060\060\060\060\132\027\015\064\060\060\066
\061\060\060\060\060\060\060\060\132\060\201\227\061\013\060\011
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\131\360\125\113\002\001\003\243\143\060\141\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006\003
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\125\035\016\004\026\004\024\313\260\335\075\214\074\337\142\054
\053\146\074\236\074\351\025\155\161\264\327\060\037\006\003\125
\035\043\004\030\060\026\200\024\313\260\335\075\214\074\337\142
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\264\112\225\346\156\133\172\044\303\323\306\326\037\242\353\067

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END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "GLOBALTRUST 2015"
Issuer: CN=GLOBALTRUST 2015,OU=GLOBALTRUST Certification Service,O=e-commerce monitoring GmbH,L=Wien,ST=Wien,C=AT
Serial Number: 0 (0x0)
Subject: CN=GLOBALTRUST 2015,OU=GLOBALTRUST Certification Service,O=e-commerce monitoring GmbH,L=Wien,ST=Wien,C=AT
Not Valid
Before: Thu Jun 11 00:00:00 2015
Not Valid After: Sun Jun 10 00:00:00 2040
Fingerprint (MD5): da:5a:b9:da:8e:0a:38:d4:82:63:03:9d:6c:96:6c:ed
Fingerprint (SHA1): 46:5b:26:be:be:71:06:dd:85:44:c1:13:9d:9f:a2:57:00:c1:d7:bd
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GLOBALTRUST 2015"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\106\133\046\276\276\161\006\335\205\104\301\023\235\237\242\127
\000\301\327\275
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
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END
CKA_ISSUER MULTILINE_OCTAL
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\015\060\013\006\003\125\004\007\023\004\127\151\145\156\061\043
\060\041\006\003\125\004\012\023\032\145\055\143\157\155\155\145

\162\143\145\040\155\157\156\151\164\157\162\151\156\147\040\107
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END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\001\000
END
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CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Microsoft ECC Product Root Certificate Authority 2018"
Issuer: CN=Microsoft ECC Product Root Certificate Authority 2018,O=Microsoft
Corporation,L=Redmond,ST=Washington,C=US
Serial Number:14:98:26:66:dc:7c:cd:8f:40:53:67:7b:b9:99:ec:85
Subject: CN=Microsoft ECC Product Root Certificate Authority 2018,O=Microsoft
Corporation,L=Redmond,ST=Washington,C=US
Not Valid Before: Tue Feb 27 20:42:08
2018
Not Valid After: Fri Feb 27 20:50:46 2043
Fingerprint (MD5): 1f:12:4e:de:13:e0:6a:02:3c:d7:c0:9a:4f:48:c3:d6
Fingerprint (SHA1): 06:f1:aa:33:0b:92:7b:75:3a:40:e6:8c:df:22:e3:4b:cb:ef:33:52
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft ECC Product Root Certificate Authority 2018"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
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\156\147\164\157\156\061\020\060\016\006\003\125\004\007\023\007
\122\145\144\155\157\156\144\061\036\060\034\006\003\125\004\012
\023\025\115\151\143\162\157\163\157\146\164\040\103\157\162\160
\157\162\141\164\151\157\156\061\076\060\074\006\003\125\004\003
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CKA_ID

UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
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\156\147\164\157\156\061\020\060\016\006\003\125\004\007\023\007
\122\145\144\155\157\156\144\061\036\060\034\006\003\125\004\012
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\023\065\115\151\143\162\157\163\157\146\164\040\105\103\103\040
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END
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CKA_VALUE MULTILINE_OCTAL
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\060\070\132\027\015\064\063\060\062\062\067\062\060\065\060\064
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\061\036\137\064\055\356\027\375\025\373\176\047\212\062\241\352

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\057\122\145\160\157\163\151\164\157\162\171\056\150\164\155\000
\060\012\006\010\052\206\110\316\075\004\003\003\003\151\000\060
\146\002\061\000\241\300\111\104\135\062\125\047\314\076\220\156
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\117\034\315\335\234\341\265\127\311\236\302\042\105\233\006\025
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\047\011\177\142\075\140\171\345\222\361\105\052\271\245\002\344
\140\273\376\172\053\234\140\247\265\231\024\362\260\276\360\273
\005\226\126\126\217\301\150
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Microsoft ECC Product Root Certificate Authority 2018"
Issuer: CN=Microsoft ECC Product Root Certificate Authority 2018,O=Microsoft
Corporation,L=Redmond,ST=Washington,C=US
Serial Number:14:98:26:66:dc:7c:cd:8f:40:53:67:7b:b9:99:ec:85
Subject: CN=Microsoft ECC Product Root Certificate Authority 2018,O=Microsoft
Corporation,L=Redmond,ST=Washington,C=US
Not Valid Before: Tue Feb 27 20:42:08 2018
Not Valid After: Fri Feb 27 20:50:46 2043
Fingerprint (MD5): 1f:12:4e:de:13:e0:6a:02:3c:d7:c0:9a:4f:48:c3:d6
Fingerprint (SHA1): 06:f1:aa:33:0b:92:7b:75:3a:40:e6:8c:df:22:e3:4b:cb:ef:33:52
CKA_CLASS CK_OBJECT_CLASS
 CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft ECC Product Root Certificate Authority 2018"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\006\361\252\063\013\222\173\165\072\100\346\214\337\042\343\113
\313\357\063\122
END

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CKA_CERT_MD5_HASH MULTILINE_OCTAL
\037\022\116\336\023\340\152\002\074\327\300\232\117\110\303\326
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\224\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\010\023\012\127\141\163\150\151
\156\147\164\157\156\061\020\060\016\006\003\125\004\007\023\007
\122\145\144\155\157\156\144\061\036\060\034\006\003\125\004\012
\023\025\115\151\143\162\157\163\157\146\164\040\103\157\162\160
\157\162\141\164\151\157\156\061\076\060\074\006\003\125\004\003
\023\065\115\151\143\162\157\163\157\146\164\040\105\103\103\040
\120\162\157\144\165\143\164\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171\040\062\060\061\070
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\024\230\046\146\334\174\315\217\100\123\147\173\271\231
\354\205
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "emSign Root CA - G2"
# Issuer: CN=emSign Root CA - G2,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Serial Number:86:4d:bf:0f:e3:5e:d7:7d:8e:d8
# Subject: CN=emSign Root CA - G2,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After: Wed Feb 18 18:30:00 2043
# Fingerprint (MD5): 63:ac:61:e5:f7:da:aa:05:80:53:bd:e4:ab:fd:bb:30
# Fingerprint (SHA1): 1e:65:77:b9:cf:70:d0:17:ca:e1:bd:a1:35:1d:47:25:a9:73:c0:6d
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE
 CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign Root CA - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\147\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\045\060\043\006\003\125\004\012\023\034\145
\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147
\151\145\163\040\114\151\155\151\164\145\144\061\034\060\032\006
\003\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157
```

\164\040\103\101\040\055\040\107\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\147\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\045\060\043\006\003\125\004\012\023\034\145
\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147
\151\145\163\040\114\151\155\151\164\145\144\061\034\060\032\006
\003\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157
\164\040\103\101\040\055\040\107\062
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\013\000\206\115\277\017\343\136\327\175\216\330
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\225\060\202\003\175\240\003\002\001\002\002\013\000
\206\115\277\017\343\136\327\175\216\330\060\015\006\011\052\206
\110\206\367\015\001\001\014\005\000\060\147\061\013\060\011\006
\003\125\004\006\023\002\111\116\061\023\060\021\006\003\125\004
\013\023\012\145\155\123\151\147\156\040\120\113\111\061\045\060
\043\006\003\125\004\012\023\034\145\115\165\144\150\162\141\040
\124\145\143\150\156\157\154\157\147\151\145\163\040\114\151\155
\151\164\145\144\061\034\060\032\006\003\125\004\003\023\023\145
\155\123\151\147\156\040\122\157\157\164\040\103\101\040\055\040
\107\062\060\036\027\015\061\070\060\062\061\070\061\070\063\060
\060\060\132\027\015\064\063\060\062\061\070\061\070\063\060\060
\060\132\060\147\061\013\060\011\006\003\125\004\006\023\002\111
\116\061\023\060\021\006\003\125\004\013\023\012\145\155\123\151
\147\156\040\120\113\111\061\045\060\043\006\003\125\004\012\023
\034\145\115\165\144\150\162\141\040\124\145\143\150\156\157\154
\157\147\151\145\163\040\114\151\155\151\164\145\144\061\034\060
\032\006\003\125\004\003\023\023\145\155\123\151\147\156\040\122
\157\157\164\040\103\101\040\055\040\107\062\060\202\002\042\060
\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202
\002\017\000\060\202\002\012\002\202\002\001\000\303\160\030\205
\226\332\101\337\034\257\254\135\063\160\304\135\073\053\342\025
\311\044\356\310\123\066\257\133\364\323\154\024\175\307\123\373
\073\071\070\316\120\154\306\005\026\167\235\135\002\072\200\041
\113\262\062\253\161\247\243\343\306\155\337\263\262\021\275\342
\150\373\073\012\303\370\220\014\223\303\062\207\365\246\136\352
\005\330\036\262\152\343\117\331\124\303\134\101\122\066\075\302
\051\343\100\177\110\003\166\201\106\176\145\245\055\040\353\325
\214\114\166\353\367\233\065\245\321\042\313\141\226\103\206\375
\306\201\371\004\160\017\015\155\227\275\367\361\231\157\320\315
\250\114\025\062\340\035\336\355\321\217\346\230\027\037\275\114
\216\241\317\012\203\150\373\033\375\177\103\123\005\077\241\120

\066\274\207\314\024\265\301\220\253\320\203\170\224\351\215\147
\003\331\263\366\000\307\125\033\252\025\244\300\024\171\114\350
\160\054\240\226\373\105\165\103\043\202\014\101\157\016\052\205
\253\265\035\163\306\360\353\175\207\002\373\144\310\274\266\104
\363\256\365\010\307\026\374\033\322\305\377\271\012\170\041\073
\264\146\132\127\060\323\235\173\242\176\135\346\261\036\004\254
\173\020\340\376\345\126\355\200\042\062\000\206\260\027\241\347
\103\211\326\373\244\307\037\355\060\001\166\266\024\117\122\150
\033\360\042\053\342\175\214\356\206\116\067\200\014\076\013\060
\064\201\146\021\314\270\022\277\074\237\340\322\101\201\267\357
\302\324\277\277\035\104\163\102\022\144\062\124\147\063\244\157
\136\200\255\174\252\051\112\131\354\346\332\331\231\070\275\357
\125\243\156\177\074\101\163\372\326\121\251\004\045\017\300\050
\354\356\272\116\142\364\224\046\322\076\225\306\305\373\176\352
\220\212\216\135\211\025\117\167\056\244\064\251\303\341\374\366
\101\155\217\221\212\143\345\347\313\202\361\143\355\310\274\062
\021\213\047\172\223\055\103\076\076\365\334\062\064\312\253\336
\022\233\010\257\160\064\075\334\056\311\102\073\011\055\143\203
\103\147\030\124\372\137\034\253\323\020\176\124\073\174\334\122
\130\133\313\365\352\115\251\155\244\070\221\134\100\335\245\335
\137\327\131\143\045\121\325\056\175\050\316\371\002\003\001\000
\001\243\102\060\100\060\035\006\003\125\035\016\004\026\004\024
\355\354\115\105\141\030\050\347\263\043\050\021\034\115\245\047
\015\136\354\364\060\016\006\003\125\035\017\001\001\377\004\004
\003\002\001\006\060\017\006\003\125\035\023\001\001\377\004\005
\060\003\001\001\377\060\015\006\011\052\206\110\206\367\015\001
\001\014\005\000\003\202\002\001\000\010\120\277\212\124\040\360
\244\302\124\034\105\045\157\354\153\072\046\221\055\044\065\206
\304\041\230\070\007\172\033\253\013\011\355\045\375\363\077\031
\201\374\301\247\075\047\140\051\160\300\230\326\154\123\165\107
\154\330\362\220\204\242\336\277\166\011\200\361\126\352\320\154
\141\300\363\071\140\337\322\146\253\215\311\022\061\073\167\024
\166\120\034\301\377\257\111\354\335\124\047\375\300\354\357\110
\001\167\253\106\271\226\073\333\165\263\111\066\227\322\161\005
\151\355\105\035\346\300\154\146\117\043\134\355\112\103\370\050
\375\127\377\030\063\347\254\201\146\306\220\010\030\115\354\202
\163\274\224\013\375\027\065\032\001\353\257\354\165\236\343\274
\115\364\236\376\155\014\305\367\174\207\270\205\300\010\364\313
\245\001\341\203\154\314\277\220\273\004\006\356\014\167\333\217
\120\256\333\336\031\363\175\262\205\047\301\163\070\226\032\311
\016\276\135\336\263\141\034\037\053\133\113\327\075\077\355\063
\062\231\032\357\061\202\324\121\353\274\266\377\026\207\156\037
\316\223\171\233\164\102\066\172\245\312\145\067\072\032\304\071
\303\277\064\311\350\040\266\022\174\276\250\177\300\074\120\256
\125\113\371\377\010\360\027\341\317\233\303\356\247\140\021\217
\327\004\247\335\276\322\247\036\255\361\332\160\332\271\204\307
\206\145\326\300\375\334\335\121\037\371\317\234\327\167\020\044
\236\137\046\161\361\233\321\343\015\111\065\320\232\140\177\213

\200\036\160\331\353\357\153\230\217\071\132\135\101\230\067\263
\153\157\245\350\270\155\051\236\035\077\004\033\126\132\235\024
\112\022\017\245\141\000\252\316\321\044\030\372\373\126\124\141
\166\170\071\272\302\303\336\266\017\030\115\332\235\175\037\034
\075\056\333\224\121\302\352\251\063\353\025\166\057\300\356\055
\242\350\373\050\231\300\221\244\324\175\161\235\021\241\125\264
\130\240\324\100\067\321\154\311\143\145\365\274\004\073\205\131
\347\210\050\340\151\160\006\252\073\024\352\311\045\064\317\147
\304\074\171\254\120\202\010\113\143\364\250\174\120\170\306\053
\144\052\200\376\144\302\013\155\214\340\051\100\306\202\241\354
\314\174\256\012\017\265\251\071\165
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "emSign Root CA - G2"
Issuer: CN=emSign Root CA - G2,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
Serial Number:86:4d:bf:0f:e3:5e:d7:7d:8e:d8
Subject: CN=emSign Root CA - G2,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
Not Valid Before: Sun Feb 18 18:30:00 2018
Not Valid After: Wed Feb 18 18:30:00 2043
Fingerprint (MD5): 63:ac:61:e5:f7:da:aa:05:80:53:bd:e4:ab:fd:bb:30
Fingerprint (SHA1): 1e:65:77:b9:cf:70:d0:17:ca:e1:bd:a1:35:1d:47:25:a9:73:c0:6d
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign Root CA - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\036\145\167\271\317\160\320\027\312\341\275\241\065\035\107\045
\251\163\300\155
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\143\254\141\345\367\332\252\005\200\123\275\344\253\375\273\060
END
CKA_ISSUER
MULTILINE_OCTAL
\060\147\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\045\060\043\006\003\125\004\012\023\034\145
\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147
\151\145\163\040\114\151\155\151\164\145\144\061\034\060\032\006
\003\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157
\164\040\103\101\040\055\040\107\062
END

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CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\000\206\115\277\017\343\136\327\175\216\330
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "emSign Root CA - C2"
# Issuer: CN=emSign Root CA - C2,O=eMudhra Inc,OU=emSign PKI,C=US
# Serial
 Number:2f:0a:b7:6b:0d:cb:4a:af:27:58
# Subject: CN=emSign Root CA - C2,O=eMudhra Inc,OU=emSign PKI,C=US
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After: Wed Feb 18 18:30:00 2043
# Fingerprint (MD5): eb:24:3b:fa:70:63:c8:e1:cd:5f:0e:ea:c8:97:2f:21
# Fingerprint (SHA1): bc:a2:18:80:74:c3:14:7e:16:f4:c4:8c:59:10:a8:9e:f7:52:f4:79
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign Root CA - C2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\126\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013\145
\115\165\144\150\162\141\040\111\156\143\061\034\060\032\006\003
\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157\164
\040\103\101\040\055\040\103\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\126\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013\145
\115\165\144\150\162\141\040\111\156\143\061\034\060\032\006\003
\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157\164
\040\103\101\040\055\040\103\062
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\012\057\012\267\153\015\313\112\257\047\130
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\162\060\202\003\132\240\003\002\001\002\002\012\057
\012\267\153\015\313\112\257\047\130\060\015\006\011\052\206\110
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\206\367\015\001\001\014\005\000\060\126\061\013\060\011\006\003
\125\004\006\023\002\125\123\061\023\060\021\006\003\125\004\013
\023\012\145\155\123\151\147\156\040\120\113\111\061\024\060\022
\006\003\125\004\012\023\013\145\115\165\144\150\162\141\040\111
\156\143\061\034\060\032\006\003\125\004\003\023\023\145\155\123
\151\147\156\040\122\157\157\164\040\103\101\040\055\040\103\062
\060\036\027\015\061\070\060\062\061\070\061\070\063\060\060\060
\132\027\015\064\063\060\062\061\070\061\070\063\060\060\060\132
\060\126\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013\145
\115\165\144\150\162\141\040\111\156\143\061\034\060\032\006\003
\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157\164
\040\103\101\040\055\040\103\062\060\202\002\042\060\015\006\011
\052\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000
\060\202\002\012\002\202\002\001\000\214\175\175\145\003\344\333
\232\037\130\042\171\221\200\345\275\354\205\161\340\265\011\177
\140\321\145\373\074\337\262\153\232\137\251\313\256\032\126\166
\040\130\356\055\350\056\374\176\010\337\113\270\327\371\316\023
\212\162\063\022\253\226\160\217\263\213\107\335\341\047\074\064
\067\373\044\343\151\333\265\126\137\112\260\121\212\263\054\064
\102\267\353\073\316\222\334\177\035\144\313\114\325\040\230\372
\057\116\256\077\042\267\220\212\375\371\200\054\255\130\376\337
\333\255\233\247\266\060\024\054\104\333\055\110\215\337\011\006
\000\032\372\020\115\017\037\120\266\256\116\243\126\151\200\044
\065\201\136\350\165\007\035\003\351\332\355\124\153\115\050\164
\305\342\017\232\021\027\022\334\016\161\200\160\115\110\377\321
\075\230\260\235\222\010\027\212\066\024\232\047\050\357\345\360
\145\341\150\076\033\332\351\342\011\346\235\067\056\335\303\273
\225\267\021\301\321\321\302\146\231\215\151\311\340\067\350\226
\227\051\144\115\063\322\021\215\203\025\064\047\051\342\070\101
\332\322\030\211\237\213\126\117\033\301\017\177\325\315\267\267
\031\257\336\357\173\265\246\145\127\155\215\027\213\155\113\132
\252\334\237\214\072\235\050\031\102\301\316\222\237\107\035\052
\031\132\233\076\351\020\064\140\043\070\262\015\360\240\315\100
\334\333\107\130\200\227\147\174\037\343\022\242\047\001\243\200
\042\167\304\343\055\147\015\277\217\050\011\142\371\335\232\305
\004\304\303\215\242\000\351\372\306\326\336\010\245\271\307\151
\320\073\250\042\111\173\152\251\044\336\247\331\344\012\001\111
\372\122\044\003\034\373\022\250\320\145\161\110\120\341\217\364
\143\111\224\346\270\041\233\143\201\366\265\320\113\121\133\324
\224\102\174\223\015\234\222\046\344\005\001\333\355\221\133\072
\271\116\014\373\111\264\241\243\303\154\146\115\024\155\011\305
\305\310\252\103\333\250\125\060\054\053\136\022\223\332\006\361
\015\363\176\303\064\361\307\117\241\026\364\132\122\031\222\124
\172\230\240\373\057\311\307\377\067\306\273\303\310\046\377\170
\030\140\175\105\237\124\340\016\275\257\167\217\233\057\014\276
\274\337\067\021\312\264\176\254\277\002\003\001\000\001\243\102

\060\100\060\035\006\003\125\035\016\004\026\004\024\263\367\212
\244\326\017\210\000\131\350\121\027\117\325\176\354\206\042\201
\235\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001
\006\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001
\001\377\060\015\006\011\052\206\110\206\367\015\001\001\014\005
\000\003\202\002\001\000\064\045\246\045\214\321\313\366\235\235
\007\346\065\154\006\255\061\332\256\266\103\102\360\250\004\354
\010\133\362\271\276\340\304\320\262\265\033\250\003\313\055\230
\363\204\273\371\140\360\210\061\217\201\110\216\214\241\042\265
\224\127\034\242\055\116\315\243\203\376\132\061\024\073\005\023
\304\212\144\020\353\157\031\104\075\176\043\245\160\141\355\041
\220\315\006\126\152\355\152\144\265\160\061\171\136\171\104\363
\354\242\275\272\247\141\115\000\304\105\175\224\041\322\302\327
\204\250\044\362\053\245\111\050\040\253\037\036\316\003\362\173
\255\305\152\046\004\213\207\077\167\064\143\334\163\202\236\306
\142\301\226\124\323\147\137\345\212\115\026\074\122\301\233\304
\343\127\043\032\233\053\245\143\037\100\122\066\263\235\321\155
\345\351\343\271\122\003\026\004\340\334\343\004\123\036\370\114
\005\270\113\336\004\042\101\020\001\371\256\366\056\336\230\266
\242\273\011\343\156\023\251\141\020\127\133\102\260\051\020\317
\346\052\374\351\032\227\274\207\002\102\203\170\345\334\077\272
\015\340\017\223\165\167\066\245\332\261\271\120\247\004\355\021
\231\154\366\046\221\222\111\342\143\211\071\077\070\374\021\260
\363\126\267\001\277\051\162\364\342\215\255\153\170\342\076\222
\156\040\045\155\130\060\034\365\035\332\270\021\040\046\136\153
\112\024\146\005\333\063\033\102\346\316\301\356\144\360\205\111
\200\265\345\020\103\010\340\154\153\306\303\104\237\051\004\125
\066\132\057\302\125\160\200\010\113\232\276\012\057\170\016\005
\153\226\355\337\312\064\075\154\154\004\377\214\246\207\002\165
\133\103\062\254\320\207\034\275\042\210\112\271\165\200\032\267
\254\240\213\312\016\015\361\026\116\253\004\352\343\175\134\011
\172\134\042\377\020\042\262\210\307\074\225\120\277\325\265\315
\122\050\036\237\204\102\017\370\061\000\266\324\326\310\137\144
\150\212\200\176\127\170\112\343\177\133\377\016\335\171\117\061
\330\317\034\227\123\206\322\163\337\156\160\021\227\221\217\063
\273\311\202\056\073\322\073\150\341\047\214\203\241\314\001\155
\304\201\276\172\265\007\015\057\002\075\123\311\231\234\333\321
\201\103\053\220\010\013
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "emSign Root CA - C2"
Issuer: CN=emSign Root CA - C2,O=eMudhra Inc,OU=emSign PKI,C=US
Serial Number:2f:0a:b7:6b:0d:cb:4a:af:27:58

```
# Subject: CN=emSign Root CA - C2,O=eMudhra Inc,OU=emSign PKI,C=US
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After: Wed Feb 18 18:30:00 2043
# Fingerprint (MD5): eb:24:3b:fa:70:63:c8:e1:cd:5f:0e:ea:c8:97:2f:21
# Fingerprint (SHA1): bc:a2:18:80:74:c3:14:7e:16:f4:c4:8c:59:10:a8:9e:f7:52:f4:79
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign Root CA - C2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\274\242\030\200\164\303\024\176\026\364\304\214\131\020\250\236
\367\122\364\171
END
CKA_CERT_MD5_HASH
 MULTILINE_OCTAL
\353\044\073\372\160\143\310\341\315\137\016\352\310\227\057\041
END
CKA_ISSUER MULTILINE_OCTAL
\060\126\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013\145
\115\165\144\150\162\141\040\111\156\143\061\034\060\032\006\003
\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157\164
\040\103\101\040\055\040\103\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\012\057\012\267\153\015\313\112\257\047\130
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Microsoft ECC TS Root Certificate Authority 2018"
# Issuer:
 CN=Microsoft ECC TS Root Certificate Authority 2018,O=Microsoft
Corporation,L=Redmond,ST=Washington,C=US
# Serial Number:15:38:75:e1:64:7e:d1:b0:47:b4:ef:af:41:12:82:45
# Subject: CN=Microsoft ECC TS Root Certificate Authority 2018,O=Microsoft
Corporation,L=Redmond,ST=Washington,C=US
# Not Valid Before: Tue Feb 27 20:51:34 2018
# Not Valid After: Fri Feb 27 21:00:12 2043
# Fingerprint (MD5): 37:94:29:58:86:2a:06:e6:bb:cf:d7:ab:59:c7:f2:3c
# Fingerprint (SHA1): 31:f9:fc:8b:a3:80:59:86:b7:21:ea:72:95:c6:5b:3a:44:53:42:74
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
```

CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft ECC TS Root Certificate Authority 2018"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\217\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\010\023\012\127\141\163\150\151
\156\147\164\157\156\061\020\060\016\006\003\125\004\007\023\007
\122\145\144\155\157\156\144\061\036\060\034\006\003\125\004\012
\023\025\115\151\143\162\157\163\157\146\164\040\103\157\162\160
\157\162\141\164\151\157\156\061\071\060\067\006\003\125\004\003
\023\060\115\151\143\162\157\163\157\146\164\040\105\103\103\040
\124\123\040\122\157\157\164\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171\040\062\060
\061\070
END
CKA_ID
UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\217\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\010\023\012\127\141\163\150\151
\156\147\164\157\156\061\020\060\016\006\003\125\004\007\023\007
\122\145\144\155\157\156\144\061\036\060\034\006\003\125\004\012
\023\025\115\151\143\162\157\163\157\146\164\040\103\157\162\160
\157\162\141\164\151\157\156\061\071\060\067\006\003\125\004\003
\023\060\115\151\143\162\157\163\157\146\164\040\105\103\103\040
\124\123\040\122\157\157\164\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171\040\062\060
\061\070
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\025\070\165\341\144\176\321\260\107\264\357\257\101\022
\202\105
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\027\060\202\002\236\240\003\002\001\002\002\020\025
\070\165\341\144\176\321\260\107\264\357\257\101\022\202\105\060
\012\006\010\052\206\110\316\075\004\003\003\060\201\217\061\013
\060\011\006\003\125\004\006\023\002\125\123\061\023\060\021\006
\003\125\004\010\023\012\127\141\163\150\151\156\147\164\157\156
\061\020\060\016\006\003\125\004\007\023\007\122\145\144\155\157
\156\144\061\036\060\034\006\003\125\004\012\023\025\115\151\143
\162\157\163\157\146\164\040\103\157\162\160\157\162\141\164\151
\157\156\061\071\060\067\006\003\125\004\003\023\060\115\151\143
\162\157\163\157\146\164\040\105\103\103\040\124\123\040\122\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\145\040\101
\165\164\150\157\162\151\164\171\040\062\060\061\070\060\036\027

\015\061\070\060\062\062\067\062\060\065\061\063\064\132\027\015
\064\063\060\062\062\067\062\061\060\060\061\062\132\060\201\217
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\023\060
\021\006\003\125\004\010\023\012\127\141\163\150\151\156\147\164
\157\156\061\020\060\016\006\003\125\004\007\023\007\122\145\144
\155\157\156\144\061\036\060\034\006\003\125\004\012\023\025\115
\151\143\162\157\163\157\146\164\040\103\157\162\160\157\162\141
\164\151\157\156\061\071\060\067\006\003\125\004\003\023\060\115
\151\143\162\157\163\157\146\164\040\105\103\103\040\124\123\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\145
\040\101\165\164\150\157\162\151\164\171\040\062\060\061\070\060
\166\060\020\006\007\052\206\110\316\075\002\001\006\005\053\201
\004\000\042\003\142\000\004\336\315\273\160\040\361\045\040\264
\224\350\327\264\073\017\156\207\335\253\254\317\115\100\057\201
\063\153\131\011\030\326\207\015\046\043\234\264\215\225\235\166
\237\245\271\006\102\346\255\066\262\304\263\256\172\074\010\325
\313\235\072\136\105\041\154\013\343\040\365\233\302\335\104\063
\343\102\271\352\362\050\102\222\252\376\014\007\312\212\023\231
\073\142\000\355\332\363\065\243\201\274\060\201\271\060\016\006
\003\125\035\017\001\001\377\004\004\003\002\001\206\060\017\006
\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060\035
\006\003\125\035\016\004\026\004\024\350\107\310\102\232\260\235
\256\157\013\050\073\230\025\217\343\261\350\200\262\060\020\006
\011\053\006\001\004\001\202\067\025\001\004\003\002\001\000\060
\145\006\003\125\035\040\004\136\060\134\060\006\006\004\125\035
\040\000\060\122\006\014\053\006\001\004\001\202\067\114\203\175
\001\001\060\102\060\100\006\010\053\006\001\005\005\007\002\001
\026\064\150\164\164\160\072\057\057\167\167\167\056\155\151\143
\162\157\163\157\146\164\056\143\157\155\057\160\153\151\157\160
\163\057\104\157\143\163\057\122\145\160\157\163\151\164\157\162
\171\056\150\164\155\000\060\012\006\010\052\206\110\316\075\004
\003\003\003\147\000\060\144\002\060\024\206\120\300\046\032\353
\352\241\024\167\072\133\337\143\071\245\063\307\120\100\325\153
\065\153\017\264\337\175\126\271\341\245\235\170\031\202\241\103
\156\032\327\130\243\125\003\102\333\002\060\030\224\264\036\072
\215\144\372\014\047\033\207\023\112\322\267\072\000\224\306\362
\345\143\277\257\343\372\334\223\325\347\106\232\153\201\151\076
\002\337\121\015\217\050\161\101\211\221\057
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Microsoft ECC TS Root Certificate Authority 2018"
Issuer: CN=Microsoft ECC TS Root Certificate Authority 2018,O=Microsoft Corporation,L=Redmond,ST=Washington,C=US

```
# Serial Number:15:38:75:e1:64:7e:d1:b0:47:b4:ef:af:41:12:82:45
# Subject: CN=Microsoft ECC TS Root Certificate Authority 2018,O=Microsoft
Corporation,L=Redmond,ST=Washington,C=US
# Not Valid Before: Tue Feb 27 20:51:34 2018
#
 Not Valid After: Fri Feb 27 21:00:12 2043
# Fingerprint (MD5): 37:94:29:58:86:2a:06:e6:bb:cf:d7:ab:59:c7:f2:3c
# Fingerprint (SHA1): 31:f9:fc:8b:a3:80:59:86:b7:21:ea:72:95:c6:5b:3a:44:53:42:74
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft ECC TS Root Certificate Authority 2018"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\061\371\374\213\243\200\131\206\267\041\352\162\225\306\133\072
\104\123\102\164
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\067\224\051\130\206\052\006\346\273\317\327\253\131\307\362\074
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\217\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\010\023\012\127\141\163\150\151
\156\147\164\157\156\061\020\060\016\006\003\125\004\007\023\007
\122\145\144\155\157\156\144\061\036\060\034\006\003\125\004\012
\023\025\115\151\143\162\157\163\157\146\164\040\103\157\162\160
\157\162\141\164\151\157\156\061\071\060\067\006\003\125\004\003
\023\060\115\151\143\162\157\163\157\146\164\040\105\103\103\040
\124\123\040\122\157\157\164\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171\040\062\060
\061\070
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\025\070\165\341\144\176\321\260\107\264\357\257\101\022
\202\105
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "GlobalSign Code Signing Root E45"
# Issuer: CN=GlobalSign Code Signing Root E45,O=GlobalSign nv-sa,C=BE
# Serial Number:76:53:fe:ae:18:26:43:6f:69:f5:1c:c2:77:16:f2:5e
# Subject: CN=GlobalSign Code Signing Root E45,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 18 00:00:00 2020
```

```
# Not Valid After: Sat Mar 18 00:00:00 2045
# Fingerprint (MD5): 1c:65:05:d0:f3:fb:48:c5:29:e4:c4:3e:4d:f8:8d:22
#
 Fingerprint (SHA1): 79:aa:50:5e:dd:09:b3:21:e3:6d:57:91:0a:5d:f5:a9:fb:85:cc:57
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Code Signing Root E45"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\123\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\051\060\047\006\003
\125\004\003\023\040\107\154\157\142\141\154\123\151\147\156\040
\103\157\144\145\040\123\151\147\156\151\156\147\040\122\157\157
\164\040\105\064\065
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\123\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\051\060\047\006\003
\125\004\003\023\040\107\154\157\142\141\154\123\151\147\156\040
\103\157\144\145\040\123\151\147\156\151\156\147\040\122\157\157
\164\040\105\064\065
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\166\123\376\256\030\046\103\157\151\365\034\302\167\026
\362\136
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\042\060\202\001\251\240\003\002\001\002\002\020\166
\123\376\256\030\046\103\157\151\365\034\302\167\026\362\136\060
\012\006\010\052\206\110\316\075\004\003\003\060\123\061\013\060
\011\006\003\125\004\006\023\002\102\105\061\031\060\027\006\003
\125\004\012\023\020\107\154\157\142\141\154\123\151\147\156\040
\156\166\055\163\141\061\051\060\047\006\003\125\004\003\023\040
\107\154\157\142\141\154\123\151\147\156\040\103\157\144\145\040
\123\151\147\156\151\156\147\040\122\157\157\164\040\105\064\065
\060\036\027\015\062\060\060\063\061\070\060\060\060\060\060\060
\132\027\015\064\065\060\063\061\070\060\060\060\060\060\060\132
\060\123\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\051\060\047\006\003
\125\004\003\023\040\107\154\157\142\141\154\123\151\147\156\040
\103\157\144\145\040\123\151\147\156\151\156\147\040\122\157\157
```

```
\164\040\105\064\065\060\166\060\020\006\007\052\206\110\316\075
\002\001\006\005\053\201\004\000\042\003\142\000\004\166\031\155
\003\265\365\204\043\253\062\152\056\141\335\204\045\057\357\350
\171\047\211\203\303\203\165\363\266\170\152\010\155\242\255\041
\052\002\220\006\354\232\100\234\172\206\221\271\130\205\310\050
\232\056\013\367\342\166\251\337\262\275\251\303\351\051\031\171
\010\262\120\320\302\305\235\012\141\014\343\135\067\006\112\134
\376\204\275\300\200\204\372\113\125\043\340\342\076\243\102\060
\100\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001
\206\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001
\001\377\060\035\006\003\125\035\016\004\026\004\024\247\237\335
\323\124\315\333\370\154\277\046\154\016\344\327\133\157\200\314
\102\060\012\006\010\052\206\110\316\075\004\003\003\003\147\000
\060\144\002\060\154\214\126\266\305\067\256\055\220\053\170\355
\261\036\106\010\322\303\112\050\357\170\031\010\216\044\064\106
\117\207\161\141\137\251\021\112\157\062\253\034\321\122\173\252
\072\352\345\232\002\060\125\053\167\057\316\370\077\233\150\112
\332\327\250\113\105\015\176\262\153\366\154\332\261\025\342\274
\110\031\167\213\127\301\135\024\327\101\000\314\046\122\320\040
\270\031\117\226\347\232
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Trust for "GlobalSign Code Signing Root E45"
# Issuer: CN=GlobalSign Code Signing Root E45,O=GlobalSign nv-sa,C=BE
# Serial Number:76:53:fe:ae:18:26:43:6f:69:f5:1c:c2:77:16:f2:5e
# Subject: CN=GlobalSign Code Signing Root E45,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 18 00:00:00 2020
# Not Valid After: Sat Mar 18 00:00:00
 2045
# Fingerprint (MD5): 1c:65:05:d0:f3:fb:48:c5:29:e4:c4:3e:4d:f8:8d:22
# Fingerprint (SHA1): 79:aa:50:5e:dd:09:b3:21:e3:6d:57:91:0a:5d:f5:a9:fb:85:cc:57
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Code Signing Root E45"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\171\252\120\136\335\011\263\041\343\155\127\221\012\135\365\251
\373\205\314\127
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\034\145\005\320\363\373\110\305\051\344\304\076\115\370\215\042
END
```

```
CKA_ISSUER MULTILINE_OCTAL
\060\123\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\051\060\047\006\003
\125\004\003\023\040\107\154\157\142\141\154\123\151\147\156\040
\103\157\144\145\040\123\151\147\156\151\156\147\040\122\157\157
\164\040\105\064\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\166\123\376\256\030\046\103\157\151\365\034\302\167\026
\362\136
END
CKA_TRUST_SERVER_AUTH
 CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "GlobalSign Code Signing Root R45"
# Issuer: CN=GlobalSign Code Signing Root R45,O=GlobalSign nv-sa,C=BE
# Serial Number:76:53:fe:ac:75:46:48:93:f5:e5:d7:4a:48:3a:4e:f8
# Subject: CN=GlobalSign Code Signing Root R45,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 18 00:00:00 2020
# Not Valid After: Sat Mar 18 00:00:00 2045
# Fingerprint (MD5): e9:4f:b5:48:71:20:8c:00:df:70:f7:08:ac:47:08:5b
# Fingerprint (SHA1): 4e:fc:31:46:0c:61:9e:ca:e5:9c:1b:ce:2c:00:80:36:d9:4c:84:b8
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Code Signing Root R45"
CKA_CERTIFICATE_TYPE
 CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\123\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\051\060\047\006\003
\125\004\003\023\040\107\154\157\142\141\154\123\151\147\156\040
\103\157\144\145\040\123\151\147\156\151\156\147\040\122\157\157
\164\040\122\064\065
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\123\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\051\060\047\006\003
\125\004\003\023\040\107\154\157\142\141\154\123\151\147\156\040
```

\103\157\144\145\040\123\151\147\156\151\156\147\040\122\157\157
\164\040\122\064\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\166\123\376\254\165\106\110\223\365\345\327\112\110\072
\116\370
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\162\060\202\003\132\240\003\002\001\002\002\020\166
\123\376\254\165\106\110\223\365\345\327\112\110\072\116\370\060
\015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\123
\061\013\060\011\006\003\125\004\006\023\002\102\105\061\031\060
\027\006\003\125\004\012\023\020\107\154\157\142\141\154\123\151
\147\156\040\156\166\055\163\141\061\051\060\047\006\003\125\004
\003\023\040\107\154\157\142\141\154\123\151\147\156\040\103\157
\144\145\040\123\151\147\156\151\156\147\040\122\157\157\164\040
\122\064\065\060\036\027\015\062\060\060\063\061\070\060\060\060
\060\060\060\132\027\015\064\065\060\063\061\070\060\060\060\060
\060\060\132\060\123\061\013\060\011\006\003\125\004\006\023\002
\102\105\061\031\060\027\006\003\125\004\012\023\020\107\154\157
\142\141\154\123\151\147\156\040\156\166\055\163\141\061\051\060
\047\006\003\125\004\003\023\040\107\154\157\142\141\154\123\151
\147\156\040\103\157\144\145\040\123\151\147\156\151\156\147\040
\122\157\157\164\040\122\064\065\060\202\002\042\060\015\006\011
\052\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000
\060\202\002\012\002\202\002\001\000\266\055\305\060\335\172\350
\253\220\075\003\162\260\072\113\231\026\141\262\345\377\245\147
\035\067\034\345\176\354\223\203\252\204\365\243\103\233\230\105
\212\270\143\127\135\233\000\210\004\045\351\370\150\222\113\202
\330\113\311\112\003\363\250\177\152\217\212\141\047\275\241\104
\320\375\365\077\042\302\243\117\221\215\263\005\262\050\202\221
\135\373\131\210\005\013\227\006\302\230\370\054\247\063\044\356
\120\072\101\314\360\240\260\173\035\115\322\250\130\070\226\351
\337\371\033\221\273\213\020\054\322\307\103\035\242\011\164\241
\200\257\173\346\063\012\014\131\153\216\274\364\253\132\227\173
\177\256\125\373\204\360\200\376\204\114\327\342\272\275\304\165
\241\157\275\141\020\164\104\262\230\007\342\164\253\377\150\334
\154\046\076\351\037\345\340\004\207\255\060\323\014\215\003\174
\125\270\026\160\134\044\170\040\045\353\147\147\210\253\272\116
\064\230\153\160\021\336\070\312\324\276\241\300\234\341\337\036
\002\001\330\073\341\147\103\204\266\317\374\164\267\057\204\243
\277\272\011\067\075\147\154\261\105\134\031\141\253\101\203\365
\254\035\353\167\015\106\107\163\316\277\275\225\225\355\235\053
\210\020\376\372\130\350\247\127\341\263\317\250\132\351\007\045
\233\022\304\236\200\162\075\223\334\214\224\337\073\104\346\046
\200\374\322\303\003\360\214\014\322\105\326\056\347\217\230\236
\346\004\356\102\156\147\176\102\026\161\142\347\004\371\140\306
\144\241\266\234\201\041\116\053\306\155\150\224\206\306\231\164

\163\147\061\172\221\362\324\214\171\156\174\246\273\176\106\157
\115\305\205\022\053\317\232\042\104\010\250\205\067\316\007\141
\127\006\027\022\044\300\304\061\163\241\230\065\127\107\176\020
\072\105\331\055\244\121\220\230\251\240\007\067\304\145\032\252
\034\153\026\167\367\247\227\354\077\031\060\231\157\061\373\352
\100\262\347\322\304\372\311\320\360\120\166\164\131\372\215\155
\027\062\276\370\351\176\003\364\347\207\165\232\324\112\221\054
\205\003\023\002\053\102\200\362\211\152\066\317\310\114\240\316
\236\370\313\215\255\026\247\323\336\325\233\030\247\306\222\072
\361\202\143\361\056\016\044\144\337\002\003\001\000\001\243\102
\060\100\060\016\006\003\125\035\017\001\001\377\004\004\003\002
\001\206\060\017\006\003\125\035\023\001\001\377\004\005\060\003
\001\001\377\060\035\006\003\125\035\016\004\026\004\024\037\000
\277\106\200\012\374\170\071\267\245\264\103\331\126\120\273\316
\226\073\060\015\006\011\052\206\110\206\367\015\001\001\014\005
\000\003\202\002\001\000\136\053\272\164\227\064\104\137\166\110
\050\100\204\223\356\001\156\351\241\263\326\200\045\346\173\344
\274\011\221\075\017\374\166\255\327\324\060\040\273\217\140\320
\221\326\034\362\234\357\170\032\053\224\062\002\301\044\226\122
\122\002\320\363\321\374\362\233\071\156\231\341\037\216\103\101
\175\232\036\133\311\135\232\204\374\046\346\207\363\164\162\046
\255\244\033\331\075\073\152\122\240\074\011\036\057\036\173\263
\063\264\105\307\367\254\261\257\223\140\255\166\256\270\262\025
\170\353\203\152\353\377\333\106\253\044\345\356\002\372\220\037
\131\300\057\135\326\267\135\244\134\020\267\162\123\370\101\116
\314\372\170\032\045\112\312\376\205\142\103\141\303\264\067\252
\201\322\364\326\072\017\275\215\131\176\060\107\336\053\153\347
\041\120\063\137\324\147\233\324\270\147\237\074\047\231\003\377
\205\103\216\163\022\312\040\315\350\141\325\261\146\334\027\326
\071\155\017\333\317\043\067\241\202\211\116\034\153\077\326\240
\315\252\007\235\076\102\046\252\327\014\356\372\107\277\032\122
\176\321\165\201\323\311\212\142\027\155\117\210\240\041\240\046
\076\257\155\331\142\060\037\351\230\050\256\156\215\325\216\114
\162\146\223\200\215\052\343\125\307\140\147\220\102\126\134\042
\121\017\263\334\116\071\356\115\335\331\035\170\020\124\073\156
\320\227\157\003\265\036\262\043\163\306\022\262\232\144\320\374
\225\205\044\250\377\337\241\260\334\221\100\256\337\011\063\253
\271\335\222\267\361\314\221\164\073\151\353\147\227\033\220\277
\347\307\240\157\161\273\127\277\267\217\132\355\172\100\152\026
\315\200\204\055\057\341\002\324\044\224\103\263\025\374\014\053
\033\375\161\157\374\313\274\165\027\072\136\203\322\311\263\057
\033\325\234\215\177\124\376\176\176\344\126\243\207\247\235\341
\131\122\224\101\217\155\133\276\206\225\232\377\032\166\335\100
\322\121\112\160\264\037\063\143\043\167\077\354\047\036\131\344
\010\207\355\064\202\112\017\077\376\240\035\301\365\147\163\105
\206\170\364\252\051\351\047\207\306\031\333\306\023\024\303\071
\111\207\115\240\227\340\145\023\365\235\167\126\351\332\263\130
\307\072\362\300\315\202

```
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Trust for "GlobalSign Code Signing Root R45"
# Issuer: CN=GlobalSign Code Signing Root R45,O=GlobalSign nv-sa,C=BE
# Serial Number:76:53:fe:ac:75:46:48:93:f5:e5:d7:4a:48:3a:4e:f8
#
 Subject: CN=GlobalSign Code Signing Root R45,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 18 00:00:00 2020
# Not Valid After: Sat Mar 18 00:00:00 2045
# Fingerprint (MD5): e9:4f:b5:48:71:20:8c:00:df:70:f7:08:ac:47:08:5b
# Fingerprint (SHA1): 4e:fc:31:46:0c:61:9e:ca:e5:9c:1b:ce:2c:00:80:36:d9:4c:84:b8
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Code Signing Root R45"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\116\374\061\106\014\141\236\312\345\234\033\316\054\000\200\066
\331\114\204\270
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\351\117\265\110\161\040\214\000\337\160\367\010\254\107\010\133
END
CKA_ISSUER MULTILINE_OCTAL
\060\123\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\051\060\047\006\003
\125\004\003\023\040\107\154\157\142\141\154\123\151\147\156\040
\103\157\144\145\040\123\151\147\156\151\156\147\040\122\157\157
\164\040\122\064\065
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\166\123\376\254\165\106\110\223\365\345\327\112\110\072
\116\370
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "DigiCert CS ECC P384 Root G5"
```

```
# Issuer: CN=DigiCert CS ECC P384 Root G5,O=DigiCert\, Inc.,C=US
# Serial Number:03:69:8f:e7:12:d5:19:f3:ce:d0:fd:b7:b1:64:30:11
# Subject: CN=DigiCert CS ECC P384 Root G5,O=DigiCert\, Inc.,C=US
# Not Valid Before: Fri Jan 15 00:00:00 2021
# Not Valid After: Sun Jan 14 23:59:59 2046
# Fingerprint (MD5): dd:b4:30:09:e8:67:1f:45:a0:80:ec:9d:d9:b1:a1:54
# Fingerprint (SHA1): 84:35:73:11:2a:3b:31:93:44:e5:e4:ec:ab:c9:f2:6c:7c:d5:4d:07
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN
 CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert CS ECC P384 Root G5"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\045\060\043\006\003\125\004
\003\023\034\104\151\147\151\103\145\162\164\040\103\123\040\105
\103\103\040\120\063\070\064\040\122\157\157\164\040\107\065
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\045\060\043\006\003\125\004
\003\023\034\104\151\147\151\103\145\162\164\040\103\123\040\105
\103\103\040\120\063\070\064\040\122\157\157\164\040\107\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\003\151\217\347\022\325\031\363\316\320\375\267\261\144
\060\021
END
CKA_VALUE
 MULTILINE_OCTAL
\060\202\002\026\060\202\001\235\240\003\002\001\002\002\020\003
\151\217\347\022\325\031\363\316\320\375\267\261\144\060\021\060
\012\006\010\052\206\110\316\075\004\003\003\060\115\061\013\060
\011\006\003\125\004\006\023\002\125\123\061\027\060\025\006\003
\125\004\012\023\016\104\151\147\151\103\145\162\164\054\040\111
\156\143\056\061\045\060\043\006\003\125\004\003\023\034\104\151
\147\151\103\145\162\164\040\103\123\040\105\103\103\040\120\063
\070\064\040\122\157\157\164\040\107\065\060\036\027\015\062\061
\060\061\061\065\060\060\060\060\060\060\132\027\015\064\066\060
\061\061\064\062\063\065\071\065\071\132\060\115\061\013\060\011
\006\003\125\004\006\023\002\125\123\061\027\060\025\006\003\125
\004\012\023\016\104\151\147\151\103\145\162\164\054\040\111\156
\143\056\061\045\060\043\006\003\125\004\003\023\034\104\151\147
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\151\103\145\162\164\040\103\123\040\105\103\103\040\120\063\070
\064\040\122\157\157\164\040\107\065\060\166\060\020\006\007\052
\206\110\316\075\002\001\006\005\053\201\004\000\042\003\142\000
\004\177\024\255\205\266\227\375\002\041\065\115\140\350\070\223
\223\233\075\005\020\155\257\323\376\357\372\273\373\163\231\363
\354\062\022\215\307\150\270\213\336\211\242\210\124\167\215\273
\041\176\063\225\126\226\011\350\325\214\241\004\270\233\156\031
\000\142\350\102\050\246\130\067\204\031\125\046\173\063\067\147
\362\232\162\255\241\256\256\000\102\074\034\176\270\172\236\041
\234\243\102\060\100\060\035\006\003\125\035\016\004\026\004\024
\360\214\230\161\071\070\145\302\072\033\246\027\146\035\310\355
\145\336\222\066\060\016\006\003\125\035\017\001\001\377\004\004
\003\002\001\206\060\017\006\003\125\035\023\001\001\377\004\005
\060\003\001\001\377\060\012\006\010\052\206\110\316\075\004\003
\003\003\147\000\060\144\002\060\043\157\341\000\031\046\120\344
\106\040\145\213\067\247\317\353\006\341\314\062\311\052\241\354
\062\015\163\242\036\002\034\065\141\052\116\151\253\071\167\355
\227\210\300\175\153\352\211\335\002\060\103\361\321\130\243\165
\076\206\233\266\125\021\213\027\367\075\376\012\151\305\177\116
\306\165\033\132\224\313\352\021\021\306\010\042\210\336\320\172
\242\245\171\350\343\041\247\315\023\263
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Trust for "DigiCert CS ECC P384 Root G5"
# Issuer: CN=DigiCert CS ECC P384 Root G5,O=DigiCert\, Inc.,C=US
# Serial Number:03:69:8f:e7:12:d5:19:f3:ce:d0:fd:b7:b1:64:30:11
# Subject: CN=DigiCert CS ECC P384 Root G5,O=DigiCert\, Inc.,C=US
# Not Valid Before: Fri Jan 15 00:00:00 2021
# Not Valid After: Sun Jan 14 23:59:59 2046
# Fingerprint (MD5): dd:b4:30:09:e8:67:1f:45:a0:80:ec:9d:d9:b1:a1:54
# Fingerprint (SHA1): 84:35:73:11:2a:3b:31:93:44:e5:e4:ec:ab:c9:f2:6c:7c:d5:4d:07
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE
 CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert CS ECC P384 Root G5"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\204\065\163\021\052\073\061\223\104\345\344\354\253\311\362\154
\174\325\115\007
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\335\264\060\011\350\147\037\105\240\200\354\235\331\261\241\124
```

```
END
CKA_ISSUER MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\045\060\043\006\003\125\004
\003\023\034\104\151\147\151\103\145\162\164\040\103\123\040\105
\103\103\040\120\063\070\064\040\122\157\157\164\040\107\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\003\151\217\347\022\325\031\363\316\320\375\267\261\144
\060\021
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing
 Only Certificate
# Certificate "DigiCert CS RSA4096 Root G5"
# Issuer: CN=DigiCert CS RSA4096 Root G5,O=DigiCert\, Inc.,C=US
# Serial Number:06:ce:e1:31:be:6d:55:c8:07:f7:c0:c7:fb:44:e6:20
# Subject: CN=DigiCert CS RSA4096 Root G5,O=DigiCert\, Inc.,C=US
# Not Valid Before: Fri Jan 15 00:00:00 2021
# Not Valid After: Sun Jan 14 23:59:59 2046
# Fingerprint (MD5): a7:33:ed:bf:1b:5d:e1:19:c4:91:c9:4a:ea:f7:6d:c7
# Fingerprint (SHA1): 5e:ee:d8:6f:a3:7c:67:52:30:64:2f:55:c8:4d:db:f6:7c:d3:3c:80
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert CS RSA4096 Root G5"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\114\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\044\060\042\006\003\125\004
\003\023\033\104\151\147\151\103\145\162\164\040\103\123\040\122
\123\101\064\060\071\066\040\122\157\157\164\040\107\065
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\114\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\044\060\042\006\003\125\004
\003\023\033\104\151\147\151\103\145\162\164\040\103\123\040\122
\123\101\064\060\071\066\040\122\157\157\164\040\107\065
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END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\006\316\341\061\276\155\125\310\007\367\300\307\373\104
\346\040
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\144\060\202\003\114\240\003\002\001\002\002\020\006
\316\341\061\276\155\125\310\007\367\300\307\373\104\346\040\060
\015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\114
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\027\060
\025\006\003\125\004\012\023\016\104\151\147\151\103\145\162\164
\054\040\111\156\143\056\061\044\060\042\006\003\125\004\003\023
\033\104\151\147\151\103\145\162\164\040\103\123\040\122\123\101
\064\060\071\066\040\122\157\157\164\040\107\065\060\036\027\015
\062\061\060\061\061\065\060\060\060\060\060\060\132\027\015\064
\066\060\061\061\064\062\063\065\071\065\071\132\060\114\061\013
\060\011\006\003\125\004\006\023\002\125\123\061\027\060\025\006
\003\125\004\012\023\016\104\151\147\151\103\145\162\164\054\040
\111\156\143\056\061\044\060\042\006\003\125\004\003\023\033\104
\151\147\151\103\145\162\164\040\103\123\040\122\123\101\064\060
\071\066\040\122\157\157\164\040\107\065\060\202\002\042\060\015
\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\002
\017\000\060\202\002\012\002\202\002\001\000\266\063\163\200\330
\142\003\160\024\054\021\034\071\136\174\256\174\203\206\035\376
\046\057\114\044\255\213\352\203\137\251\274\075\133\374\013\230
\114\002\107\060\354\342\376\354\350\064\133\146\136\277\073\327
\054\246\045\377\214\131\263\337\352\332\174\051\331\106\120\162
\010\035\156\321\033\012\335\037\315\231\211\372\017\017\163\304
\341\234\035\165\062\315\157\227\332\052\152\225\262\154\311\011
\320\352\013\173\175\027\006\111\231\357\326\336\340\310\123\324
\256\306\167\361\206\273\043\034\270\300\337\131\367\216\175\321
\357\202\346\046\213\132\070\265\377\165\325\262\331\117\011\363
\067\210\120\332\021\244\212\024\024\321\123\004\000\175\363\152
\104\030\376\120\160\062\007\034\250\232\016\072\035\305\012\037
\156\013\046\151\267\074\242\127\160\054\206\372\114\156\225\251
\130\103\271\254\022\326\377\077\355\327\103\027\153\114\316\236
\304\220\253\377\372\020\120\232\243\220\127\326\347\214\020\256
\237\026\032\317\065\035\177\327\166\355\212\234\065\247\050\270
\247\135\041\374\060\067\335\336\010\031\117\025\306\347\246\332
\220\107\216\367\224\123\114\216\123\002\276\375\231\345\352\206
\320\257\003\002\323\233\252\223\361\253\050\216\040\001\377\114
\373\314\267\051\100\365\207\244\022\023\005\037\103\156\327\121
\120\237\070\264\040\355\027\011\022\217\314\271\031\257\237\315
\276\151\021\323\257\125\020\155\027\206\171\226\122\306\262\000
\235\345\257\070\260\065\364\210\153\217\016\004\075\174\356\257
\315\323\152\020\112\306\315\206\312\042\075\241\112\134\373\016
\377\210\337\134\142\247\300\271\036\331\254\154\176\070\067\376
\167\223\045\302\205\212\117\265\067\006\132\006\201\024\361\316

\224\235\231\221\352\062\132\316\147\075\156\004\146\255\014\117
\055\243\056\367\236\365\170\235\367\012\375\176\217\343\102\212
\125\226\274\361\237\067\055\374\236\137\225\376\214\030\033\374
\216\375\113\220\257\327\003\150\022\143\254\342\223\247\242\313
\004\345\117\144\316\003\372\306\024\237\331\213\350\314\324\142
\214\153\344\000\054\031\237\032\006\306\061\201\124\373\123\044
\232\257\125\231\272\235\165\256\270\302\335\002\003\001\000\001
\243\102\060\100\060\035\006\003\125\035\016\004\026\004\024\150
\001\223\261\322\112\100\102\151\224\106\054\034\132\210\251\045
\264\107\117\060\016\006\003\125\035\017\001\001\377\004\004\003
\002\001\206\060\017\006\003\125\035\023\001\001\377\004\005\060
\003\001\001\377\060\015\006\011\052\206\110\206\367\015\001\001
\014\005\000\003\202\002\001\000\222\374\356\270\002\171\027\002
\121\175\041\305\111\147\247\244\361\250\044\070\353\014\150\352
\132\102\153\234\364\163\301\151\112\055\263\067\005\120\102\230
\222\236\006\171\054\056\006\231\366\357\337\053\240\315\263\222
\001\203\265\240\313\047\265\074\043\032\230\111\242\354\055\231
\245\131\103\254\322\261\223\326\127\327\034\274\223\326\306\100
\341\263\157\031\125\267\023\327\345\103\063\244\265\253\313\332
\301\061\144\015\164\326\054\355\303\215\156\353\273\257\031\107
\141\141\055\300\364\005\271\157\170\334\072\367\102\100\145\123
\221\275\231\015\223\222\124\246\251\067\131\053\233\313\231\306
\274\075\367\004\204\360\224\063\035\017\202\132\071\313\056\105
\303\050\031\243\262\233\230\310\374\061\153\140\217\366\351\206
\050\274\340\074\175\164\135\026\211\133\151\044\307\020\213\304
\113\273\066\117\324\131\077\303\260\244\221\231\370\056\321\112
\001\235\365\210\022\357\277\132\021\152\131\117\131\153\132\147
\363\217\264\023\017\300\330\057\075\050\162\252\031\177\021\175
\152\133\237\225\347\137\267\224\117\361\076\241\132\377\055\314
\235\337\047\167\217\062\163\034\147\012\166\363\372\134\261\277
\274\035\275\014\050\233\262\307\027\147\013\063\017\303\275\066
\334\373\272\102\013\253\355\204\303\142\326\204\026\251\261\007
\153\251\156\356\306\317\346\260\104\051\302\360\263\141\200\052
\213\157\322\024\134\045\207\124\144\363\244\114\301\241\370\247
\153\352\376\352\072\374\171\333\016\217\334\306\363\311\324\154
\336\351\203\241\216\035\042\354\311\072\262\000\173\334\073\247
\102\032\177\334\213\251\021\075\216\247\300\040\157\135\011\135
\103\104\346\217\146\314\251\133\007\361\357\233\172\016\263\124
\341\224\375\016\054\306\223\327\125\375\161\230\065\270\011\112
\377\306\051\050\054\366\122\055\333\024\030\222\047\342\026\176
\214\312\324\141\276\202\207\221\353\230\067\077\277\137\135\167
\077\064\254\033\070\103\253\150\162\231\062\036\072\032\031\245
\243\070\114\043\327\243\347\314\325\052\222\027\220\013\132\113
\275\026\275\373\206\152\342\211\231\354\344\240\125\030\311\243
\010\037\023\340\062\010\162\320
END
CKA_NSS_MOZILLA_CA_POLICY

```
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Trust for "DigiCert CS RSA4096 Root G5"
# Issuer: CN=DigiCert CS RSA4096 Root G5,O=DigiCert\, Inc.,C=US
# Serial Number:06:ce:e1:31:be:6d:55:c8:07:f7:c0:c7:fb:44:e6:20
# Subject: CN=DigiCert CS RSA4096 Root G5,O=DigiCert\, Inc.,C=US
# Not Valid Before: Fri Jan 15 00:00:00 2021
# Not Valid After: Sun Jan 14 23:59:59 2046
# Fingerprint (MD5): a7:33:ed:bf:1b:5d:e1:19:c4:91:c9:4a:ea:f7:6d:c7
# Fingerprint (SHA1): 5e:ee:d8:6f:a3:7c:67:52:30:64:2f:55:c8:4d:db:f6:7c:d3:3c:80
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL
 UTF8 "DigiCert CS RSA4096 Root G5"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\136\356\330\157\243\174\147\122\060\144\057\125\310\115\333\366
\174\323\074\200
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\247\063\355\277\033\135\341\031\304\221\311\112\352\367\155\307
END
CKA_ISSUER MULTILINE_OCTAL
\060\114\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\044\060\042\006\003\125\004
\003\023\033\104\151\147\151\103\145\162\164\040\103\123\040\122
\123\101\064\060\071\066\040\122\157\157\164\040\107\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\006\316\341\061\276\155\125\310\007\367\300\307\373\104
\346\040
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "DigiCert
 RSA4096 Root G5"
# Issuer: CN=DigiCert RSA4096 Root G5,O=DigiCert\, Inc.,C=US
# Serial Number:08:bf:a2:6f:9a:3f:33:65:a2:ac:f0:a6:38:c4:01:70
# Subject: CN=DigiCert RSA4096 Root G5,O=DigiCert\, Inc.,C=US
```

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# Not Valid Before: Fri Jan 15 00:00:00 2021
# Not Valid After: Sun Jan 14 23:59:59 2046
# Fingerprint (MD5): 26:18:9c:6e:60:22:79:b6:8d:0f:65:4c:99:17:56:12
# Fingerprint (SHA1): 87:b8:e6:d3:8f:1a:39:cd:97:f0:4a:9e:17:4b:3c:9e:e7:ee:11:15
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert RSA4096 Root G5"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\111\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\041\060\037\006\003\125\004
\003\023\030\104\151\147\151\103\145\162\164\040\122\123\101\064
\060\071\066\040\122\157\157\164\040\107\065
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\111\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\041\060\037\006\003\125\004
\003\023\030\104\151\147\151\103\145\162\164\040\122\123\101\064
\060\071\066\040\122\157\157\164\040\107\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\010\277\242\157\232\077\063\145\242\254\360\246\070\304
\001\160
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\136\060\202\003\106\240\003\002\001\002\002\020\010
\277\242\157\232\077\063\145\242\254\360\246\070\304\001\160\060
\015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\111
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\027\060
\025\006\003\125\004\012\023\016\104\151\147\151\103\145\162\164
\054\040\111\156\143\056\061\041\060\037\006\003\125\004\003\023
\030\104\151\147\151\103\145\162\164\040\122\123\101\064\060\071
\066\040\122\157\157\164\040\107\065\060\036\027\015\062\061\060
\061\061\065\060\060\060\060\060\060\132\027\015\064\066\060\061
\061\064\062\063\065\071\065\071\132\060\111\061\013\060\011\006
\003\125\004\006\023\002\125\123\061\027\060\025\006\003\125\004
\012\023\016\104\151\147\151\103\145\162\164\054\040\111\156\143
\056\061\041\060\037\006\003\125\004\003\023\030\104\151\147\151
\103\145\162\164\040\122\123\101\064\060\071\066\040\122\157\157
\164\040\107\065\060\202\002\042\060\015\006\011\052\206\110\206
\367\015\001\001\001\005\000\003\202\002\017\000\060\202\002\012
\002\202\002\001\000\252\276\015\262\006\175\046\371\107\352\344
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\033\347\102\151\270\231\302\271\356\044\261\106\220\313\131\044
\122\124\065\246\044\302\137\221\031\310\266\102\326\363\107\145
\225\144\347\205\145\147\251\256\174\000\117\340\170\003\120\255
\363\177\216\270\021\347\201\142\261\213\337\362\111\046\011\336
\017\026\274\332\050\233\241\310\227\057\223\220\332\040\052\343
\204\324\377\251\236\260\055\277\264\000\336\233\037\310\240\143
\123\150\205\157\115\205\306\252\143\371\215\262\065\166\142\164
\003\334\223\230\150\005\236\315\220\145\335\322\172\061\253\044
\055\155\100\056\220\077\143\154\054\353\372\036\200\124\215\171
\002\220\024\263\265\117\116\365\210\004\103\200\303\110\263\046
\057\254\121\225\062\125\045\057\101\226\260\126\241\010\073\334
\230\037\162\205\054\167\312\230\314\070\373\216\162\311\155\354
\005\354\355\115\267\074\133\024\120\205\335\227\373\131\367\220
\022\364\023\277\203\115\200\262\025\145\021\227\140\345\326\134
\346\004\265\120\346\161\063\266\040\223\251\150\000\070\316\111
\333\264\134\073\162\327\105\134\124\277\315\074\001\043\036\174
\326\370\151\054\245\000\012\154\062\110\264\336\160\055\072\023
\027\301\177\144\313\363\060\355\241\075\226\147\361\224\265\140
\154\133\151\150\365\202\063\011\242\266\331\363\205\262\156\240
\224\360\302\304\175\241\054\312\163\365\256\340\122\234\242\146
\346\003\316\352\337\355\030\324\271\143\213\367\350\377\373\263
\133\217\103\305\257\267\164\224\120\065\145\256\326\057\361\205
\217\123\241\160\364\215\062\135\274\226\303\036\302\004\004\234
\004\017\263\135\176\211\040\312\136\047\015\211\112\022\043\264
\366\304\335\330\037\370\150\263\066\370\036\274\306\367\204\266
\350\212\116\210\060\070\300\046\330\160\012\011\072\064\016\153
\202\022\226\034\057\346\236\255\330\161\065\201\261\214\006\156
\364\156\146\377\113\112\256\275\360\376\327\134\137\123\273\062
\074\315\142\321\024\240\051\037\020\336\251\162\117\261\255\144
\345\203\052\217\213\352\204\225\356\230\045\230\232\263\161\074
\301\247\120\362\254\102\142\061\302\241\220\306\356\342\267\212
\250\265\266\033\073\002\003\001\000\001\243\102\060\100\060\035
\006\003\125\035\016\004\026\004\024\142\155\267\221\117\304\352
\243\142\140\217\240\320\276\265\217\006\174\150\000\060\016\006
\003\125\035\017\001\001\377\004\004\003\002\001\206\060\017\006
\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060\015
\006\011\052\206\110\206\367\015\001\001\014\005\000\003\202\002
\001\000\141\350\373\047\155\326\342\270\263\011\257\252\360\261
\202\114\376\075\027\211\115\055\025\235\373\356\320\273\204\354
\204\165\333\103\023\336\214\237\307\051\357\207\164\313\023\160
\201\126\000\164\374\256\364\331\072\336\042\010\121\245\240\134
\202\146\266\173\114\251\332\217\253\254\034\101\226\146\326\235
\336\126\346\277\116\261\262\136\137\300\303\156\324\302\204\220
\365\175\261\272\026\321\051\212\310\235\351\317\320\307\031\073
\077\317\356\367\341\063\256\102\310\230\300\010\236\363\132\363
\337\324\053\073\216\250\050\126\031\307\116\167\074\045\124\334
\270\110\110\321\371\047\152\076\354\023\257\262\005\211\375\125
\137\363\175\216\015\234\011\135\054\212\176\205\316\370\341\277

\021\075\062\214\132\327\176\075\364\063\130\317\242\005\230\243
\263\373\316\211\277\375\302\026\335\156\334\210\111\015\013\240
\003\377\347\105\351\004\301\351\375\252\235\165\370\270\037\207
\203\331\353\071\323\132\247\313\230\254\023\211\000\374\157\225
\116\341\175\021\106\155\366\070\106\243\023\240\054\001\365\142
\317\277\034\120\221\047\164\135\267\354\107\174\320\321\165\313
\173\356\321\115\043\012\303\140\245\167\055\200\332\147\017\216
\153\166\007\360\246\017\352\204\256\036\171\277\010\212\332\011
\363\364\356\265\066\363\324\172\103\272\224\065\341\372\301\073
\033\226\231\244\127\143\353\265\250\202\367\255\370\167\327\166
\206\363\166\123\126\133\374\046\102\204\316\237\203\221\221\257
\364\276\160\025\200\245\330\350\151\261\330\221\124\270\031\262
\142\371\242\372\125\355\004\277\271\104\206\344\317\361\233\000
\277\021\017\276\265\164\044\121\377\167\064\143\354\110\043\016
\350\021\353\167\155\332\312\202\221\276\244\204\223\114\332\241
\376\314\006\204\350\041\350\124\272\346\323\035\143\075\302\132
\374\346\311\203\236\162\144\251\206\131\000\214\302\367\023\203
\266\320\244\061\306\254\221\216\173\244\042\126\023\306\165\307
\043\274\213\133\374\106\075\376\135\122\051\257\257\350\311\303
\166\113\350\253\107\002\362\232\015\323\054\210\200\007\206\300
\143\017\002\114\216\004\123\166\271\130\102\157\174\051\160\135
\277\047
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "DigiCert RSA4096 Root G5"
Issuer: CN=DigiCert RSA4096 Root G5,O=DigiCert\, Inc.,C=US
Serial Number:08:bf:a2:6f:9a:3f:33:65:a2:ac:f0:a6:38:c4:01:70
Subject: CN=DigiCert RSA4096 Root G5,O=DigiCert\, Inc.,C=US
Not Valid Before: Fri Jan 15 00:00:00 2021
Not Valid After: Sun Jan 14 23:59:59 2046
Fingerprint (MD5): 26:18:9c:6e:60:22:79:b6:8d:0f:65:4c:99:17:56:12
Fingerprint (SHA1): 87:b8:e6:d3:8f:1a:39:cd:97:f0:4a:9e:17:4b:3c:9e:e7:ee:11:15
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert RSA4096 Root G5"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\207\270\346\323\217\032\071\315\227\360\112\236\027\113\074\236
\347\356\021\025
END
CKA_CERT_MD5_HASH

```
 MULTILINE_OCTAL
\046\030\234\156\140\042\171\266\215\017\145\114\231\027\126\022
END
CKA_ISSUER MULTILINE_OCTAL
\060\111\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\041\060\037\006\003\125\004
\003\023\030\104\151\147\151\103\145\162\164\040\122\123\101\064
\060\071\066\040\122\157\157\164\040\107\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\010\277\242\157\232\077\063\145\242\254\360\246\070\304
\001\160
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "DigiCert ECC P384 Root G5"
# Issuer: CN=DigiCert ECC P384 Root G5,O=DigiCert\, Inc.,C=US
# Serial Number:0d:f3:d9:37:65:a3:79:c5:95:66:ea:92:e2:24:4f:34
#
 Subject: CN=DigiCert ECC P384 Root G5,O=DigiCert\, Inc.,C=US
# Not Valid Before: Fri Jan 15 00:00:00 2021
# Not Valid After: Sun Jan 14 23:59:59 2046
# Fingerprint (MD5): 11:7f:85:ae:47:1f:51:61:6e:06:94:1e:6a:43:08:0b
# Fingerprint (SHA1): d1:ee:b1:e8:c0:90:20:ba:b8:5d:3d:e2:7f:78:ee:33:a0:6c:ae:db
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert ECC P384 Root G5"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\112\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\042\060\040\006\003\125\004
\003\023\031\104\151\147\151\103\145\162\164\040\105\103\103\040
\120\063\070\064\040\122\157\157\164\040\107\065
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\112\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\042\060\040\006\003\125\004
\003\023\031\104\151\147\151\103\145\162\164\040\105\103\103\040
```

\120\063\070\064\040\122\157\157\164\040\107\065
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\015\363\331\067\145\243\171\305\225\146\352\222\342\044
\117\064
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\021\060\202\001\227\240\003\002\001\002\002\020\015
\363\331\067\145\243\171\305\225\146\352\222\342\044\117\064\060
\012\006\010\052\206\110\316\075\004\003\003\060\112\061\013\060
\011\006\003\125\004\006\023\002\125\123\061\027\060\025\006\003
\125\004\012\023\016\104\151\147\151\103\145\162\164\054\040\111
\156\143\056\061\042\060\040\006\003\125\004\003\023\031\104\151
\147\151\103\145\162\164\040\105\103\103\040\120\063\070\064\040
\122\157\157\164\040\107\065\060\036\027\015\062\061\060\061\061
\065\060\060\060\060\060\060\132\027\015\064\066\060\061\061\064
\062\063\065\071\065\071\132\060\112\061\013\060\011\006\003\125
\004\006\023\002\125\123\061\027\060\025\006\003\125\004\012\023
\016\104\151\147\151\103\145\162\164\054\040\111\156\143\056\061
\042\060\040\006\003\125\004\003\023\031\104\151\147\151\103\145
\162\164\040\105\103\103\040\120\063\070\064\040\122\157\157\164
\040\107\065\060\166\060\020\006\007\052\206\110\316\075\002\001
\006\005\053\201\004\000\042\003\142\000\004\374\131\037\316\231
\154\177\233\016\266\051\143\157\306\205\363\012\323\326\233\256
\127\025\114\016\355\135\343\011\176\155\052\243\206\252\272\170
\240\247\161\275\104\372\010\300\112\006\326\157\335\054\112\070
\164\345\320\275\377\172\377\345\071\116\275\275\027\036\037\103
\255\325\274\047\330\113\277\166\214\060\062\244\373\371\123\345
\330\252\070\123\135\250\240\067\240\147\012\243\102\060\100\060
\035\006\003\125\035\016\004\026\004\024\222\226\367\346\272\325
\021\272\371\042\056\173\176\132\331\360\045\345\005\033\060\016
\006\003\125\035\017\001\001\377\004\004\003\002\001\206\060\017
\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060
\012\006\010\052\206\110\316\075\004\003\003\003\150\000\060\145
\002\061\000\375\300\115\361\244\247\333\247\014\046\021\364\111
\275\007\070\143\053\104\142\006\171\010\307\303\324\317\233\076
\253\072\047\252\220\307\375\131\242\270\062\122\333\312\216\027
\013\012\220\002\060\135\032\354\121\211\324\144\334\371\345\036
\070\275\133\056\343\345\104\344\073\030\172\327\360\225\100\217
\362\353\317\364\371\320\145\242\101\362\260\346\174\301\066\054
\217\136\071\335\067
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

```
# Microsoft Code Signing Only Certificate
# Trust for "DigiCert ECC P384 Root G5"
# Issuer: CN=DigiCert ECC P384 Root G5,O=DigiCert\, Inc.,C=US
# Serial Number:0d:f3:d9:37:65:a3:79:c5:95:66:ea:92:e2:24:4f:34
# Subject: CN=DigiCert ECC P384 Root G5,O=DigiCert\, Inc.,C=US
# Not Valid Before: Fri
 Jan 15 00:00:00 2021
# Not Valid After: Sun Jan 14 23:59:59 2046
# Fingerprint (MD5): 11:7f:85:ae:47:1f:51:61:6e:06:94:1e:6a:43:08:0b
# Fingerprint (SHA1): d1:ee:b1:e8:c0:90:20:ba:b8:5d:3d:e2:7f:78:ee:33:a0:6c:ae:db
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert ECC P384 Root G5"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\321\356\261\350\300\220\040\272\270\135\075\342\177\170\356\063
\240\154\256\333
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\021\177\205\256\107\037\121\141\156\006\224\036\152\103\010\013
END
CKA_ISSUER MULTILINE_OCTAL
\060\112\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\042\060\040\006\003\125\004
\003\023\031\104\151\147\151\103\145\162\164\040\105\103\103\040
\120\063\070\064\040\122\157\157\164\040\107\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\015\363\331\067\145\243\171\305\225\146\352\222\342\044
\117\064
END
CKA_TRUST_SERVER_AUTH
 CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "HARICA Code Signing RSA Root CA 2021"
# Issuer: CN=HARICA Code Signing RSA Root CA 2021,O=Hellenic Academic and Research Institutions
CA,C=GR
# Serial Number:15:c2:ae:2a:4d:99:9a:63:8c:d3:ba:13:19:76:08:f5
# Subject: CN=HARICA Code Signing RSA Root CA 2021,O=Hellenic Academic and Research Institutions
CA,C=GR
# Not Valid Before: Fri Feb 19 10:59:54 2021
# Not Valid After: Mon Feb 13 10:59:53 2045
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# Fingerprint (MD5): 00:5d:c9:e3:b2:c0:90:e0:61:9a:42:c0:29:a1:6b:ba
# Fingerprint (SHA1): 8d:de:b8:20:46:b6:22:7c:79:24:6a:3e:ad:7b:32:c3:e8:8f:fc:ac
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE
 CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA Code Signing RSA Root CA 2021"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\165\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\055\060\053\006\003\125\004
\003\014\044\110\101\122\111\103\101\040\103\157\144\145\040\123
\151\147\156\151\156\147\040\122\123\101\040\122\157\157\164\040
\103\101\040\062\060\062\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\165\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\055\060\053\006\003\125\004
\003\014\044\110\101\122\111\103\101\040\103\157\144\145\040\123
\151\147\156\151\156\147\040\122\123\101\040\122\157\157\164\040
\103\101\040\062\060\062\061
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\025\302\256\052\115\231\232\143\214\323\272\023\031\166
\010\365
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\266\060\202\003\236\240\003\002\001\002\002\020\025
\302\256\052\115\231\232\143\214\323\272\023\031\166\010\365\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\165
\061\013\060\011\006\003\125\004\006\023\002\107\122\061\067\060
\065\006\003\125\004\012\014\056\110\145\154\154\145\156\151\143
\040\101\143\141\144\145\155\151\143\040\141\156\144\040\122\145
\163\145\141\162\143\150\040\111\156\163\164\151\164\165\164\151
\157\156\163\040\103\101\061\055\060\053\006\003\125\004\003\014
\044\110\101\122\111\103\101\040\103\157\144\145\040\123\151\147
\156\151\156\147\040\122\123\101\040\122\157\157\164\040\103\101
\040\062\060\062\061\060\036\027\015\062\061\060\062\061\071\061
\060\065\071\065\064\132\027\015\064\065\060\062\061\063\061\060
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\065\071\065\063\132\060\165\061\013\060\011\006\003\125\004\006
\023\002\107\122\061\067\060\065\006\003\125\004\012\014\056\110
\145\154\154\145\156\151\143\040\101\143\141\144\145\155\151\143
\040\141\156\144\040\122\145\163\145\141\162\143\150\040\111\156
\163\164\151\164\165\164\151\157\156\163\040\103\101\061\055\060
\053\006\003\125\004\003\014\044\110\101\122\111\103\101\040\103
\157\144\145\040\123\151\147\156\151\156\147\040\122\123\101\040
\122\157\157\164\040\103\101\040\062\060\062\061\060\202\002\042
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\002\017\000\060\202\002\012\002\202\002\001\000\212\152\356
\252\012\043\125\014\213\006\102\343\225\133\124\170\137\305\216
\006\054\174\074\061\276\257\015\251\241\354\112\040\130\005\235
\342\150\262\273\353\137\177\052\063\271\362\125\234\157\252\244
\036\355\020\276\203\051\021\066\346\236\077\372\155\173\121\341
\325\167\245\275\313\151\016\073\042\040\224\014\061\145\100\015
\011\257\020\065\172\233\352\171\010\104\244\213\147\251\053\115
\301\347\320\327\247\366\265\072\215\331\243\251\171\270\244\145
\134\274\363\076\367\237\231\366\270\303\145\150\055\253\203\056
\335\205\231\004\251\365\321\134\325\121\102\001\271\237\101\265
\113\042\262\000\364\313\147\020\357\151\304\020\255\372\224\006
\166\120\022\127\202\256\305\024\255\074\175\273\235\361\163\341
\174\360\256\161\336\133\367\022\335\367\200\361\334\076\361\140
\272\311\031\227\157\165\164\205\114\375\071\103\303\144\156\064
\254\023\301\034\145\266\122\102\361\106\353\057\372\135\246\317
\016\111\235\367\164\174\170\015\006\072\054\022\373\342\113\046
\344\157\213\041\201\063\102\071\023\350\102\253\133\125\324\033
\273\067\266\022\221\367\363\175\274\322\377\354\261\303\325\240
\314\262\053\307\217\135\176\114\122\102\110\373\217\375\132\220
\163\020\325\251\162\124\215\111\333\070\122\252\106\110\016\057
\372\000\054\314\163\014\066\113\044\316\023\154\246\244\244\243
\326\174\233\351\070\013\306\044\333\115\254\147\041\111\133\101
\067\144\346\140\153\037\355\052\057\140\031\060\036\330\074\234
\031\103\207\337\300\012\364\344\312\140\210\172\326\243\271\344
\045\056\171\342\376\301\313\074\267\367\317\116\130\114\373\303
\255\253\175\252\312\210\373\016\070\015\037\236\134\071\353\270
\007\304\120\042\115\370\205\177\156\354\214\372\266\161\115\336
\175\226\151\304\335\076\036\336\046\220\012\054\115\025\225\251
\242\076\334\075\016\167\174\215\101\050\117\270\203\121\276\076
\267\217\220\072\160\061\211\132\372\223\123\374\140\311\215\165
\220\356\132\057\035\204\237\000\251\346\303\206\043\242\036\335
\022\343\241\106\140\033\147\277\120\025\042\222\174\112\264\214
\217\156\234\225\302\054\334\073\072\040\266\274\213\002\003\001
\000\001\243\102\060\100\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026
\004\024\264\144\026\110\350\374\132\113\063\051\211\353\231\100
\271\040\264\366\141\032\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\206\060\015\006\011\052\206\110\206\367\015
\001\001\013\005\000\003\202\002\001\000\053\254\131\213\346\071

\104\334\373\255\112\210\340\144\377\253\303\362\322\316\160\057
\003\345\157\262\304\365\066\326\123\153\207\253\035\213\231\007
\310\060\216\107\162\375\241\270\165\326\027\241\026\275\144\163
\221\060\127\255\175\375\005\100\206\223\321\111\226\262\013\324
\174\144\023\213\323\041\111\070\273\373\350\314\076\061\361\256
\173\114\052\337\202\006\243\216\005\204\234\177\160\316\300\273
\105\027\337\135\145\014\344\120\110\007\104\213\244\057\126\332
\306\172\366\140\215\244\070\361\235\207\026\060\262\360\137\172
\102\125\040\161\317\314\356\000\261\022\107\277\102\271\344\263
\265\035\031\204\271\230\155\340\151\264\025\101\265\342\120\110
\307\037\352\232\267\171\221\335\325\325\123\031\374\256\030\154
\151\333\255\131\050\233\144\230\247\074\307\125\216\321\060\000
\317\324\062\236\142\261\303\052\356\065\042\306\273\360\174\273
\203\270\000\211\365\334\032\227\331\070\232\051\123\141\031\246
\247\364\073\107\375\335\147\225\017\216\244\146\054\202\232\267
\055\161\346\337\256\370\370\150\301\273\017\352\120\240\105\227
\267\032\225\022\157\310\263\266\005\150\332\152\036\016\065\205
\204\254\164\014\212\264\364\165\237\042\257\260\124\273\266\236
\042\371\331\353\325\212\015\307\334\370\230\061\137\236\372\306
\227\364\101\020\165\323\201\266\061\137\172\335\210\205\010\257
\160\107\002\067\173\342\112\354\135\362\335\051\022\104\310\212
\252\335\322\125\170\027\165\257\161\151\015\167\160\112\260\037
\177\102\333\307\161\334\130\326\030\275\120\305\271\162\004\307
\147\173\174\123\140\312\111\030\025\274\100\163\256\053\250\053
\254\157\021\104\071\354\202\110\176\021\312\373\326\077\266\300
\271\270\006\223\165\275\223\047\167\027\015\134\245\236\352\301
\133\000\055\014\250\065\140\307\342\157\065\033\075\166\265\347
\255\335\164\043\117\206\262\107\357\310\057\320\205\174\071\226
\067\241\053\051\002\275\076\207\317\250\366\035\165\062\317\070
\343\163\261\356\020\201\265\052\261\210\006\121\036\132\072\110
\121\363\066\131\142\337\102\146\131\120\267\130\276\365\166\100
\232\022\026\346\016\252\327\154\240\325
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "HARICA Code Signing RSA Root CA 2021"
Issuer: CN=HARICA Code Signing RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
Serial Number:15:c2:ae:2a:4d:99:9a:63:8c:d3:ba:13:19:76:08:f5
Subject: CN=HARICA Code Signing RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
Not Valid Before: Fri Feb 19 10:59:54 2021
Not Valid After: Mon Feb 13 10:59:53 2045
Fingerprint (MD5): 00:5d:c9:e3:b2:c0:90:e0:61:9a:42:c0:29:a1:6b:ba

```
# Fingerprint (SHA1): 8d:de:b8:20:46:b6:22:7c:79:24:6a:3e:ad:7b:32:c3:e8:8f:fc:ac
CKA_CLASS
 CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA Code Signing RSA Root CA 2021"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\215\336\270\040\106\266\042\174\171\044\152\076\255\173\062\303
\350\217\374\254
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\000\135\311\343\262\300\220\340\141\232\102\300\051\241\153\272
END
CKA_ISSUER MULTILINE_OCTAL
\060\165\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\055\060\053\006\003\125\004
\003\014\044\110\101\122\111\103\101\040\103\157\144\145\040\123
\151\147\156\151\156\147\040\122\123\101\040\122\157\157\164\040
\103\101\040\062\060\062\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\025\302\256\052\115\231\232\143\214\323\272\023\031\166
\010\365
END
CKA_TRUST_SERVER_AUTH
 CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "HARICA Code Signing ECC Root CA 2021"
# Issuer: CN=HARICA Code Signing ECC Root CA 2021,O=Hellenic Academic and Research Institutions
CA,C=GR
# Serial Number:4c:8a:63:1d:a9:63:8f:05:a2:fb:76:14:ff:5b:a2:cd
# Subject: CN=HARICA Code Signing ECC Root CA 2021,O=Hellenic Academic and Research Institutions
CA,C=GR
# Not Valid Before: Fri Feb 19 11:04:36 2021
# Not Valid After: Mon Feb 13 11:04:35 2045
# Fingerprint (MD5): 9d:dd:7d:39:b4:1c:95:fa:82:e0:c3:11:38:ba:69:84
# Fingerprint (SHA1): e4:36:e5:37:b7:13:42:b6:2e:8e:00:30:5a:d9:a3:d1:d7:33:47:e9
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
```

CKA_MODIFIABLE
CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA Code Signing ECC Root CA 2021"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\165\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\055\060\053\006\003\125\004
\003\014\044\110\101\122\111\103\101\040\103\157\144\145\040\123
\151\147\156\151\156\147\040\105\103\103\040\122\157\157\164\040
\103\101\040\062\060\062\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\165\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\055\060\053\006\003\125\004
\003\014\044\110\101\122\111\103\101\040\103\157\144\145\040\123
\151\147\156\151\156\147\040\105\103\103\040\122\157\157\164\040
\103\101\040\062\060\062\061
END
CKA_SERIAL_NUMBER
MULTILINE_OCTAL
\002\020\114\212\143\035\251\143\217\005\242\373\166\024\377\133
\242\315
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\146\060\202\001\355\240\003\002\001\002\002\020\114
\212\143\035\251\143\217\005\242\373\166\024\377\133\242\315\060
\012\006\010\052\206\110\316\075\004\003\003\060\165\061\013\060
\011\006\003\125\004\006\023\002\107\122\061\067\060\065\006\003
\125\004\012\014\056\110\145\154\154\145\156\151\143\040\101\143
\141\144\145\155\151\143\040\141\156\144\040\122\145\163\145\141
\162\143\150\040\111\156\163\164\151\164\165\164\151\157\156\163
\040\103\101\061\055\060\053\006\003\125\004\003\014\044\110\101
\122\111\103\101\040\103\157\144\145\040\123\151\147\156\151\156
\147\040\105\103\103\040\122\157\157\164\040\103\101\040\062\060
\062\061\060\036\027\015\062\061\060\062\061\071\061\061\060\064
\063\066\132\027\015\064\065\060\062\061\063\061\061\060\064\063
\065\132\060\165\061\013\060\011\006\003\125\004\006\023\002\107
\122\061\067\060\065\006\003\125\004\012\014\056\110\145\154\154
\145\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156
\144\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151
\164\165\164\151\157\156\163\040\103\101\061\055\060\053\006\003

\125\004\003\014\044\110\101\122\111\103\101\040\103\157\144\145
\040\123\151\147\156\151\156\147\040\105\103\103\040\122\157\157
\164\040\103\101\040\062\060\062\061\060\166\060\020\006\007\052
\206\110\316\075\002\001\006\005\053\201\004\000\042\003\142\000
\004\103\237\274\134\102\152\103\341\254\113\270\016\137\200\006
\343\005\167\213\177\013\171\327\141\240\220\277\362\123\050\243
\130\272\224\300\146\152\034\131\332\200\130\201\000\114\274\311
\171\230\020\014\307\035\013\343\223\334\205\071\150\331\277\247
\103\322\061\314\202\202\047\272\210\321\322\055\126\067\367\072
\332\156\071\334\161\020\145\356\070\013\207\172\003\272\060\137
\144\243\102\060\100\060\017\006\003\125\035\023\001\001\377\004
\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026\004
\024\152\161\301\163\152\223\102\246\227\162\136\273\220\137\202
\222\017\053\326\353\060\016\006\003\125\035\017\001\001\377\004
\004\003\002\001\206\060\012\006\010\052\206\110\316\075\004\003
\003\003\147\000\060\144\002\060\036\245\325\013\104\225\020\344
\147\174\116\205\136\271\105\111\002\163\260\262\034\263\247\042
\321\000\141\100\017\263\207\067\026\215\000\355\266\213\125\045
\006\224\220\334\327\347\165\237\002\060\177\164\153\361\112\337
\360\367\204\173\362\305\171\060\003\110\362\036\040\042\127\144
\124\127\064\200\167\267\077\043\117\264\365\200\230\302\301\126
\133\240\347\326\241\217\365\014\157\035
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
#
 Trust for "HARICA Code Signing ECC Root CA 2021"
Issuer: CN=HARICA Code Signing ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
Serial Number:4c:8a:63:1d:a9:63:8f:05:a2:fb:76:14:ff:5b:a2:cd
Subject: CN=HARICA Code Signing ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
Not Valid Before: Fri Feb 19 11:04:36 2021
Not Valid After: Mon Feb 13 11:04:35 2045
Fingerprint (MD5): 9d:dd:7d:39:b4:1c:95:fa:82:e0:c3:11:38:ba:69:84
Fingerprint (SHA1): e4:36:e5:37:b7:13:42:b6:2e:8e:00:30:5a:d9:a3:d1:d7:33:47:e9
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA Code Signing ECC Root CA 2021"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\344\066\345\067\267\023\102\266\056\216\000\060\132\331\243\321
\327\063\107\351

```
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\235\335\175\071\264\034\225\372\202\340\303\021\070\272\151\204
END
CKA_ISSUER MULTILINE_OCTAL
\060\165\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\055\060\053\006\003\125\004
\003\014\044\110\101\122\111\103\101\040\103\157\144\145\040\123
\151\147\156\151\156\147\040\105\103\103\040\122\157\157\164\040
\103\101\040\062\060\062\061
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\114\212\143\035\251\143\217\005\242\373\166\024\377\133
\242\315
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Microsoft Identity Verification Root Certificate Authority 2020"
# Issuer: CN=Microsoft Identity Verification
 Root Certificate Authority 2020,O=Microsoft Corporation,C=US
# Serial Number:54:98:d2:d1:d4:5b:19:95:48:13:79:c8:11:c0:87:99
# Subject: CN=Microsoft Identity Verification Root Certificate Authority 2020,O=Microsoft Corporation,C=US
# Not Valid Before: Thu Apr 16 18:36:16 2020
# Not Valid After: Sun Apr 16 18:44:40 2045
# Fingerprint (MD5): be:95:4f:16:01:21:22:44:8c:a8:bc:27:96:02:ac:f5
# Fingerprint (SHA1): f4:00:42:e2:e5:f7:e8:ef:81:89:fe:d1:55:19:ae:ce:42:c3:bf:a2
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft Identity Verification Root Certificate Authority 2020"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\167\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\036\060\034\006\003\125\004\012\023\025\115\151\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\110\060\106\006\003\125\004\003\023\077\115\151\143\162\157\163
\157\146\164\040\111\144\145\156\164\151\164\171\040\126\145\162
\151\146\151\143\141\164\151\157\156\040\122\157\157\164\040\103
\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157
```

\162\151\164\171\040\062\060\062\060
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\167\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\036\060\034\006\003\125\004\012\023\025\115\151\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\110\060\106\006\003\125\004\003\023\077\115\151\143\162\157\163
\157\146\164\040\111\144\145\156\164\151\164\171\040\126\145\162
\151\146\151\143\141\164\151\157\156\040\122\157\157\164\040\103
\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157
\162\151\164\171\040\062\060\062\060
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\124\230\322\321\324\133\031\225\110\023\171\310\021\300
\207\231
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\314\060\202\003\264\240\003\002\001\002\002\020\124
\230\322\321\324\133\031\225\110\023\171\310\021\300\207\231\060
\015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\167
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\036\060
\034\006\003\125\004\012\023\025\115\151\143\162\157\163\157\146
\164\040\103\157\162\160\157\162\141\164\151\157\156\061\110\060
\106\006\003\125\004\003\023\077\115\151\143\162\157\163\157\146
\164\040\111\144\145\156\164\151\164\171\040\126\145\162\151\146
\151\143\141\164\151\157\156\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171\040\062\060\062\060\060\036\027\015\062\060\060\064\061
\066\061\070\063\066\061\066\132\027\015\064\065\060\064\061\066
\061\070\064\064\064\060\132\060\167\061\013\060\011\006\003\125
\004\006\023\002\125\123\061\036\060\034\006\003\125\004\012\023
\025\115\151\143\162\157\163\157\146\164\040\103\157\162\160\157
\162\141\164\151\157\156\061\110\060\106\006\003\125\004\003\023
\077\115\151\143\162\157\163\157\146\164\040\111\144\145\156\164
\151\164\171\040\126\145\162\151\146\151\143\141\164\151\157\156
\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164
\145\040\101\165\164\150\157\162\151\164\171\040\062\060\062\060
\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001
\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001
\000\263\221\052\007\203\006\147\375\236\235\340\307\300\267\244
\346\102\004\177\017\246\333\137\373\325\132\327\105\240\373\167
\013\360\200\363\246\155\132\115\171\123\330\240\206\204\127\105
\040\307\242\124\373\307\242\277\212\307\156\065\363\242\025\304
\057\116\343\112\205\226\111\015\377\276\231\330\024\366\274\047
\007\356\102\233\053\365\013\222\006\344\375\151\023\145\250\221
\162\362\230\204\353\203\075\016\344\327\161\022\110\041\313\015

\355\366\107\111\267\233\371\311\307\027\266\204\117\377\270\254
\232\327\163\147\111\205\343\206\275\067\100\320\045\206\324\336
\265\302\155\142\152\325\251\170\274\055\157\111\371\345\154\024
\024\375\024\307\323\145\026\067\336\313\156\274\136\051\215\375
\142\233\025\054\326\005\346\271\211\062\063\243\142\307\327\326
\122\147\010\304\056\364\126\053\236\013\207\314\354\247\264\246
\252\353\005\315\031\127\245\072\013\004\047\034\221\147\236\055
\142\055\057\036\276\332\300\040\313\004\031\312\063\373\211\276
\230\342\162\240\162\065\276\171\341\234\203\157\344\155\027\157
\220\363\075\000\206\165\070\216\320\340\111\232\273\333\323\370
\060\312\325\127\210\150\115\162\323\277\155\177\161\330\375\275
\015\256\222\144\110\267\133\157\171\046\265\315\233\225\041\204
\321\357\017\062\075\173\127\214\363\105\007\114\174\340\136\030
\016\065\166\213\155\236\313\066\164\253\005\370\340\163\135\062
\126\224\147\227\045\012\306\065\075\224\227\347\301\104\213\200
\375\301\370\364\164\031\345\060\366\006\373\041\127\076\006\034
\213\153\025\206\047\111\173\202\223\312\131\350\165\107\350\077
\070\364\307\123\171\240\266\264\342\134\121\357\275\137\070\301
\023\346\170\014\225\132\056\305\100\131\050\314\017\044\300\354
\272\011\167\043\231\070\246\266\034\332\307\272\040\266\327\067
\330\177\067\257\010\343\073\161\333\156\163\033\175\231\162\260
\344\206\063\131\164\265\026\000\173\120\155\306\206\023\332\375
\304\071\202\075\044\000\232\140\332\272\224\300\005\121\054\064
\254\120\231\023\207\273\263\005\200\262\115\060\002\134\270\046
\203\135\264\143\163\357\256\043\225\117\140\050\276\067\325\133
\245\002\003\001\000\001\243\124\060\122\060\016\006\003\125\035
\017\001\001\377\004\004\003\002\001\206\060\017\006\003\125\035
\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125
\035\016\004\026\004\024\310\176\322\152\205\052\033\312\031\230
\004\007\047\317\120\020\117\150\250\242\060\020\006\011\053\006
\001\004\001\202\067\025\001\004\003\002\001\000\060\015\006\011
\052\206\110\206\367\015\001\001\014\005\000\003\202\002\001\000
\257\152\335\346\031\347\055\224\103\031\116\313\351\120\225\144
\245\003\221\002\213\342\066\200\073\025\242\122\302\026\031\266
\152\132\135\164\103\060\364\233\377\140\164\011\261\041\036\220
\026\155\305\044\217\134\146\210\143\364\117\314\175\362\022\114
\100\020\213\001\237\332\251\310\256\362\225\033\317\235\005\353
\111\076\164\240\150\133\345\126\054\145\034\202\176\123\332\126
\331\106\027\171\222\105\304\020\066\010\122\051\027\313\057\246
\362\176\324\151\044\212\036\217\260\163\015\314\034\112\253\262
\252\355\247\221\143\001\144\042\250\062\270\176\062\050\263\147
\163\055\221\264\334\061\001\013\367\107\012\246\361\327\112\355
\126\140\304\054\010\243\173\100\260\274\164\047\122\207\326\276
\210\335\067\212\211\156\147\210\035\365\311\135\240\376\266\253
\072\200\327\032\227\074\027\066\042\101\036\254\115\325\203\346
\074\070\275\117\060\351\124\251\323\266\004\303\062\166\141\273
\260\030\305\053\030\263\300\200\325\267\225\260\136\121\115\042
\374\354\130\252\350\330\224\264\245\056\355\222\336\347\030\174

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\041\127\335\125\143\367\277\155\315\037\322\246\167\050\160\307
\342\133\072\133\010\322\133\116\310\000\226\263\341\203\066\257
\206\012\145\134\164\366\352\354\172\152\164\240\360\113\356\357
\224\243\254\120\362\207\355\327\072\060\203\311\373\175\127\276
\345\343\370\101\312\345\144\256\263\243\354\130\354\205\232\314
\357\271\352\363\126\030\271\134\163\232\257\305\167\027\203\131
\333\067\032\030\162\124\245\101\322\266\043\165\243\103\232\345
\167\174\226\171\267\101\215\277\354\334\200\240\237\321\167\165
\130\137\065\023\340\045\032\147\013\175\316\045\372\007\012\344
\141\041\330\324\034\345\007\306\066\231\364\226\320\306\025\376
\116\315\327\256\213\235\333\026\375\004\306\222\275\324\210\346
\251\243\252\273\367\144\070\073\137\314\014\320\065\276\164\031
\003\246\305\252\114\242\141\066\202\076\035\363\053\274\227\135
\333\113\170\073\055\365\073\357\140\043\350\365\354\013\043\066
\225\257\230\146\277\123\323\173\270\151\112\052\226\146\151\304
\224\306\364\137\156\254\230\170\210\200\006\134\242\262\355\242
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Trust for "Microsoft Identity Verification Root Certificate Authority 2020"
# Issuer: CN=Microsoft Identity Verification Root Certificate Authority 2020,O=Microsoft Corporation,C=US
# Serial Number:54:98:d2:d1:d4:5b:19:95:48:13:79:c8:11:c0:87:99
# Subject: CN=Microsoft Identity Verification Root Certificate Authority 2020,O=Microsoft Corporation,C=US
# Not Valid Before: Thu Apr 16 18:36:16 2020
# Not Valid After: Sun Apr 16 18:44:40 2045
# Fingerprint (MD5): be:95:4f:16:01:21:22:44:8c:a8:bc:27:96:02:ac:f5
# Fingerprint (SHA1): f4:00:42:e2:e5:f7:e8:ef:81:89:fe:d1:55:19:ae:ce:42:c3:bf:a2
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft Identity Verification Root Certificate Authority 2020"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\364\000\102\342\345\367\350\357\201\211\376\321\125\031\256\316
\102\303\277\242
END
CKA_CERT_MD5_HASH
 MULTILINE_OCTAL
\276\225\117\026\001\041\042\104\214\250\274\047\226\002\254\365
END
CKA_ISSUER MULTILINE_OCTAL
\060\167\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\036\060\034\006\003\125\004\012\023\025\115\151\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061
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\110\060\106\006\003\125\004\003\023\077\115\151\143\162\157\163
\157\146\164\040\111\144\145\156\164\151\164\171\040\126\145\162
\151\146\151\143\141\164\151\157\156\040\122\157\157\164\040\103
\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157
\162\151\164\171\040\062\060\062\060
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\124\230\322\321\324\133\031\225\110\023\171\310\021\300
\207\231
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED
 CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Entrust Code Signing Root Certification Authority - CSBR1"
# Issuer: CN=Entrust Code Signing Root Certification Authority - CSBR1,O=Entrust\, Inc.,C=US
# Serial Number:7f:f1:a8:f9:f4:3a:e8:87:6e:2d:c6:ff:5e:43:3d:b2:ee:30:a6:43
# Subject: CN=Entrust Code Signing Root Certification Authority - CSBR1,O=Entrust\, Inc.,C=US
# Not Valid Before: Fri May 07 13:26:36 2021
# Not Valid After: Sun Dec 30 13:26:36 2040
# Fingerprint (MD5): 3a:07:e2:0b:54:91:63:95:fd:01:e5:7b:71:aa:46:be
# Fingerprint (SHA1): 89:74:24:05:3a:4a:88:7a:c0:98:38:02:91:03:4d:88:5c:87:14:b9
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Code Signing Root Certification Authority - CSBR1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\151\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\026\060\024\006\003\125\004\012\014\015\105\156\164\162\165\163
\164\054\040\111\156\143\056\061\102\060\100\006\003\125\004\003
\014\071\105\156\164\162\165\163\164\040\103\157\144\145\040\123
\151\147\156\151\156\147\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171\040\055\040\103\123\102\122\061
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\151\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\026\060\024\006\003\125\004\012\014\015\105\156\164\162\165\163
\164\054\040\111\156\143\056\061\102\060\100\006\003\125\004\003
\014\071\105\156\164\162\165\163\164\040\103\157\144\145\040\123
\151\147\156\151\156\147\040\122\157\157\164\040\103\145\162\164
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\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171\040\055\040\103\123\102\122\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\177\361\250\371\364\072\350\207\156\055\306\377\136\103
\075\262\356\060\246\103
END
CKA_VALUE
MULTILINE_OCTAL
\060\202\005\242\060\202\003\212\240\003\002\001\002\002\024\177
\361\250\371\364\072\350\207\156\055\306\377\136\103\075\262\356
\060\246\103\060\015\006\011\052\206\110\206\367\015\001\001\015
\005\000\060\151\061\013\060\011\006\003\125\004\006\023\002\125
\123\061\026\060\024\006\003\125\004\012\014\015\105\156\164\162
\165\163\164\054\040\111\156\143\056\061\102\060\100\006\003\125
\004\003\014\071\105\156\164\162\165\163\164\040\103\157\144\145
\040\123\151\147\156\151\156\147\040\122\157\157\164\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171\040\055\040\103\123\102\122\061\060\036\027
\015\062\061\060\065\060\067\061\063\062\066\063\066\132\027\015
\064\060\061\062\063\060\061\063\062\066\063\066\132\060\151\061
\013\060\011\006\003\125\004\006\023\002\125\123\061\026\060\024
\006\003\125\004\012\014\015\105\156\164\162\165\163\164\054\040
\111\156\143\056\061\102\060\100\006\003\125\004\003\014\071\105
\156\164\162\165\163\164\040\103\157\144\145\040\123\151\147\156
\151\156\147\040\122\157\157\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
\040\055\040\103\123\102\122\061\060\202\002\042\060\015\006\011
\052\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000
\060\202\002\012\002\202\002\001\000\247\201\217\367\024\105\266
\142\103\362\330\256\323\045\136\110\117\121\277\305\175\237\120
\034\065\321\326\176\141\052\224\031\155\047\106\244\246\032\135
\367\124\121\152\200\042\306\250\146\165\115\124\203\311\136\150
\033\253\366\133\144\260\255\255\040\275\124\357\106\153\155\002
\347\105\256\165\366\216\212\271\062\056\213\270\167\034\122\115
\171\210\137\245\072\030\311\120\054\227\047\055\277\332\000\175
\143\177\357\062\354\106\207\143\333\232\237\303\132\041\066\173
\371\233\325\312\240\156\162\054\374\341\361\236\160\115\010\126
\025\157\220\253\373\110\272\271\327\301\202\170\205\145\056\177
\265\311\300\342\024\267\067\021\101\006\342\212\340\250\366\345
\176\266\170\005\001\303\140\355\117\007\101\056\012\023\111\343
\220\233\177\335\275\372\254\277\144\121\321\134\233\264\365\134
\347\134\377\073\233\245\240\032\327\175\011\262\302\267\377\156
\034\274\310\175\346\351\053\374\162\263\024\351\112\125\022\204
\234\104\045\165\035\366\052\360\117\245\040\075\150\045\353\141
\227\174\017\345\266\075\363\256\303\301\021\274\033\216\314\340
\107\060\136\102\000\206\161\343\130\254\006\312\145\037\173\224
\246\113\127\147\014\176\136\255\170\147\133\125\343\136\353\307

\330\354\114\156\206\313\363\334\370\237\207\252\162\130\022\017
\175\246\370\370\102\071\073\074\054\344\062\115\111\214\340\341
\000\302\070\240\234\372\204\076\101\334\156\126\256\306\032\133
\364\147\150\005\001\315\033\277\256\207\274\235\123\366\056\350
\266\153\344\231\336\305\117\207\130\250\322\145\036\310\037\325
\162\156\356\131\034\127\073\011\162\235\327\312\267\220\306\315
\173\105\222\221\102\003\114\175\077\312\362\252\270\302\016\206
\363\020\237\106\056\244\146\206\150\132\150\030\160\051\070\021
\200\140\153\212\103\243\163\154\343\263\153\067\377\346\235\147
\001\222\206\337\057\110\321\373\120\140\325\134\376\041\323\001
\102\143\376\357\160\264\027\300\217\250\356\323\301\113\137\022
\352\375\375\056\016\207\104\140\343\251\364\302\030\243\343\375
\316\014\204\042\015\363\247\170\332\223\363\333\070\317\271\057
\063\306\377\007\074\136\276\105\323\002\003\001\000\001\243\102
\060\100\060\035\006\003\125\035\016\004\026\004\024\202\272\326
\075\227\316\237\317\161\350\222\067\257\375\263\265\151\065\127
\317\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001
\001\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002
\001\206\060\015\006\011\052\206\110\206\367\015\001\001\015\005
\000\003\202\002\001\000\022\357\070\241\210\341\241\243\326\145
\334\107\234\363\274\334\317\254\113\214\074\032\276\053\364\367
\320\147\027\150\206\115\160\250\362\315\320\061\002\127\175\251
\014\212\073\127\071\236\360\156\367\044\042\005\147\321\301\226
\301\276\321\360\370\126\147\013\336\272\327\210\233\215\327\153
\010\166\365\130\221\331\265\303\100\123\032\244\361\205\315\077
\000\116\077\116\223\073\170\271\322\007\122\144\014\206\151\155
\350\124\145\126\027\350\000\123\204\212\363\333\373\263\316\013
\125\142\217\315\114\111\006\070\177\122\303\363\034\327\075\367
\063\312\062\255\301\251\257\157\353\021\313\356\254\121\277\260
\046\232\172\116\043\264\112\366\151\264\102\151\326\240\215\266
\214\107\112\073\040\067\267\101\007\357\057\040\330\146\034\151
\227\250\154\060\174\167\103\136\153\276\046\230\203\017\072\326
\307\160\052\026\106\055\045\124\206\143\145\127\102\367\043\101
\351\120\152\007\103\316\116\265\351\037\150\330\330\326\011\112
\250\350\262\374\220\147\222\344\220\046\363\107\372\326\040\373
\211\200\342\104\163\071\367\212\206\063\013\370\252\251\347\115
\354\334\157\325\317\061\115\253\216\037\220\100\326\174\134\202
\017\256\027\122\161\351\254\347\115\070\355\052\330\166\171\207
\255\027\243\114\253\267\102\127\277\006\254\345\320\115\060\351
\125\117\343\105\312\363\340\152\041\064\215\307\237\034\243\143
\110\222\322\226\007\276\245\107\076\302\052\231\070\247\216\332
\041\174\121\155\334\313\075\007\351\251\275\111\324\135\065\137
\133\214\004\121\352\232\130\220\272\033\257\150\170\261\026\017
\224\051\073\217\233\052\217\311\040\360\161\102\114\134\115\253
\061\214\253\351\177\046\150\151\240\245\026\015\201\304\321\005
\014\303\207\146\345\007\143\252\033\116\377\262\007\101\117\245
\042\106\120\254\146\000\207\122\154\074\262\073\234\227\241\106
\264\133\336\317\302\152\131\125\007\214\243\244\321\167\065\147

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\106\004\057\331\070\271\106\257\272\216\033\162\046\002\057\166
\124\357\203\302\057\054\167\160\314\167\020\222\252\003\255\312
\314\340\117\351\203\106\345\263\074\031\157\172\171\207\266\070
\232\275\102\316\244\142
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER
 CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Trust for "Entrust Code Signing Root Certification Authority - CSBR1"
# Issuer: CN=Entrust Code Signing Root Certification Authority - CSBR1,O=Entrust\, Inc.,C=US
# Serial Number:7f:f1:a8:f9:f4:3a:e8:87:6e:2d:c6:ff:5e:43:3d:b2:ee:30:a6:43
# Subject: CN=Entrust Code Signing Root Certification Authority - CSBR1,O=Entrust\, Inc.,C=US
# Not Valid Before: Fri May 07 13:26:36 2021
# Not Valid After: Sun Dec 30 13:26:36 2040
# Fingerprint (MD5): 3a:07:e2:0b:54:91:63:95:fd:01:e5:7b:71:aa:46:be
# Fingerprint (SHA1): 89:74:24:05:3a:4a:88:7a:c0:98:38:02:91:03:4d:88:5c:87:14:b9
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Code Signing Root Certification Authority - CSBR1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\211\164\044\005\072\112\210\172\300\230\070\002\221\003\115\210
\134\207\024\271
END
CKA_CERT_MD5_HASH
 MULTILINE_OCTAL
\072\007\342\013\124\221\143\225\375\001\345\173\161\252\106\276
END
CKA_ISSUER MULTILINE_OCTAL
\060\151\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\026\060\024\006\003\125\004\012\014\015\105\156\164\162\165\163
\164\054\040\111\156\143\056\061\102\060\100\006\003\125\004\003
\014\071\105\156\164\162\165\163\164\040\103\157\144\145\040\123
\151\147\156\151\156\147\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171\040\055\040\103\123\102\122\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\177\361\250\371\364\072\350\207\156\055\306\377\136\103
\075\262\356\060\246\103
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
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CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "E-Tugra Global Root CA RSA
 v3"
# Issuer: CN=E-Tugra Global Root CA RSA v3,OU=E-Tugra Trust Center,O=E-Tugra EBG A.S.,L=Ankara,C=TR
# Serial Number:0d:4d:c5:cd:16:22:95:96:08:7e:b8:0b:7f:15:06:34:fb:79:10:34
# Subject: CN=E-Tugra Global Root CA RSA v3,OU=E-Tugra Trust Center,O=E-Tugra EBG
A.S.,L=Ankara,C=TR
# Not Valid Before: Wed Mar 18 09:07:17 2020
# Not Valid After: Sun Mar 12 09:07:17 2045
# Fingerprint (MD5): 22:be:10:f6:c2:f8:03:88:73:5f:33:29:47:28:47:a4
# Fingerprint (SHA1): e9:a8:5d:22:14:52:1c:5b:aa:0a:b4:be:24:6a:23:8a:c9:ba:e2:a9
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "E-Tugra Global Root CA RSA v3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\200\061\013\060\011\006\003\125\004\006\023\002\124\122
\061\017\060\015\006\003\125\004\007\023\006\101\156\153\141\162
\141\061\031\060\027\006\003\125\004\012\023\020\105\055\124\165
\147\162\141\040\105\102\107\040\101\056\123\056\061\035\060\033
\006\003\125\004\013\023\024\105\055\124\165\147\162\141\040\124
\162\165\163\164\040\103\145\156\164\145\162\061\046\060\044\006
\003\125\004\003\023\035\105\055\124\165\147\162\141\040\107\154
\157\142\141\154\040\122\157\157\164\040\103\101\040\122\123\101
\040\166\063
END
CKA_ID
 UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\200\061\013\060\011\006\003\125\004\006\023\002\124\122
\061\017\060\015\006\003\125\004\007\023\006\101\156\153\141\162
\141\061\031\060\027\006\003\125\004\012\023\020\105\055\124\165
\147\162\141\040\105\102\107\040\101\056\123\056\061\035\060\033
\006\003\125\004\013\023\024\105\055\124\165\147\162\141\040\124
\162\165\163\164\040\103\145\156\164\145\162\061\046\060\044\006
\003\125\004\003\023\035\105\055\124\165\147\162\141\040\107\154
\157\142\141\154\040\122\157\157\164\040\103\101\040\122\123\101
\040\166\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\015\115\305\315\026\042\225\226\010\176\270\013\177\025
\006\064\373\171\020\064
END
```

CKA_VALUE
MULTILINE_OCTAL
\060\202\005\363\060\202\003\333\240\003\002\001\002\002\024\015
\115\305\315\026\042\225\226\010\176\270\013\177\025\006\064\373
\171\020\064\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\060\201\200\061\013\060\011\006\003\125\004\006\023\002
\124\122\061\017\060\015\006\003\125\004\007\023\006\101\156\153
\141\162\141\061\031\060\027\006\003\125\004\012\023\020\105\055
\124\165\147\162\141\040\105\102\107\040\101\056\123\056\061\035
\060\033\006\003\125\004\013\023\024\105\055\124\165\147\162\141
\040\124\162\165\163\164\040\103\145\156\164\145\162\061\046\060
\044\006\003\125\004\003\023\035\105\055\124\165\147\162\141\040
\107\154\157\142\141\154\040\122\157\157\164\040\103\101\040\122
\123\101\040\166\063\060\036\027\015\062\060\060\063\061\070\060
\071\060\067\061\067\132\027\015\064\065\060\063\061\062\060\071
\060\067\061\067\132\060\201\200\061\013\060\011\006\003\125\004
\006\023\002\124\122\061\017\060\015\006\003\125\004\007\023\006
\101\156\153\141\162\141\061\031\060\027\006\003\125\004\012\023
\020\105\055\124\165\147\162\141\040\105\102\107\040\101\056\123
\056\061\035\060\033\006\003\125\004\013\023\024\105\055\124\165
\147\162\141\040\124\162\165\163\164\040\103\145\156\164\145\162
\061\046\060\044\006\003\125\004\003\023\035\105\055\124\165\147
\162\141\040\107\154\157\142\141\154\040\122\157\157\164\040\103
\101\040\122\123\101\040\166\063\060\202\002\042\060\015\006\011
\052\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000
\060\202\002\012\002\202\002\001\000\242\146\360\211\267\162\173
\356\011\311\143\322\323\103\335\136\303\246\204\070\112\361\215
\201\273\024\275\107\350\100\027\363\075\303\170\105\162\246\056
\220\336\232\072\324\040\161\312\274\237\035\113\227\012\307\061
\272\076\327\376\045\251\052\216\066\364\321\057\307\267\251\135
\063\334\060\160\370\100\154\113\262\246\061\141\321\064\074\075
\061\172\307\257\304\247\247\204\341\227\244\350\113\366\027\174
\356\074\007\355\342\212\127\334\266\373\370\103\045\120\352\047
\201\250\206\274\217\122\112\226\072\140\032\226\273\375\163\364
\205\375\203\375\177\204\155\064\154\177\152\267\113\001\003\277
\255\151\267\327\062\331\365\127\152\351\206\202\076\245\146\061
\263\026\075\302\363\046\140\062\323\122\036\260\154\244\067\076
\364\365\257\353\341\337\200\006\317\052\101\347\146\011\341\113
\227\347\167\275\041\155\051\266\147\303\055\176\355\326\171\145
\321\317\072\266\321\261\136\126\141\120\172\132\316\116\120\061
\200\003\230\107\347\344\030\174\104\132\306\244\263\073\306\306
\303\072\360\154\303\213\310\244\221\005\363\365\331\266\252\006
\241\267\253\344\261\352\041\024\134\203\244\374\377\266\120\323
\214\022\046\231\166\160\351\300\017\246\164\374\273\320\033\170
\316\162\222\342\050\234\274\346\351\011\330\072\323\211\346\276
\056\167\337\001\012\157\226\366\345\215\074\115\122\166\032\126
\341\163\176\027\254\075\255\154\243\122\022\030\160\346\200\116
\063\362\176\046\062\254\005\215\070\244\346\166\074\237\020\151

\016\155\235\322\301\171\040\153\133\317\063\215\321\224\166\065
\347\135\125\307\267\254\050\253\106\314\347\073\041\265\012\012
\344\112\131\334\201\065\113\104\225\022\012\147\245\241\377\133
\000\007\322\300\314\371\077\374\237\063\362\000\370\214\154\207
\235\006\055\361\357\343\346\006\372\305\146\023\133\374\120\007
\236\161\206\262\332\157\164\060\317\223\123\350\334\042\326\336
\040\037\141\215\243\056\243\170\062\220\154\334\254\062\265\005
\344\365\074\063\015\326\340\207\167\027\114\235\260\330\011\250
\015\127\367\104\205\360\310\004\276\134\135\132\343\027\216\124
\143\151\177\111\164\144\005\214\243\002\003\001\000\001\243\143
\060\141\060\017\006\003\125\035\023\001\001\377\004\005\060\003
\001\001\377\060\037\006\003\125\035\043\004\030\060\026\200\024
\262\264\256\346\055\367\046\325\252\165\055\166\113\300\033\123
\041\320\110\357\060\035\006\003\125\035\016\004\026\004\024\262
\264\256\346\055\367\046\325\252\165\055\166\113\300\033\123\041
\320\110\357\060\016\006\003\125\035\017\001\001\377\004\004\003
\002\001\006\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\003\202\002\001\000\211\250\162\177\214\353\316\056\030
\304\020\200\055\020\014\377\373\024\315\004\340\024\074\116\232
\373\237\051\277\042\236\127\271\202\163\022\143\046\265\314\220
\351\322\052\051\356\234\055\314\054\231\276\105\047\344\261\161
\355\344\070\225\061\101\362\175\172\143\170\337\312\066\026\057
\202\210\237\274\021\107\117\166\115\310\055\216\353\337\055\174
\116\073\332\256\366\343\332\135\024\246\256\350\205\104\235\006
\156\216\373\357\172\112\152\055\053\050\030\376\277\220\054\165
\026\237\017\352\226\175\005\356\233\023\245\104\154\370\003\320
\335\043\341\375\003\022\022\010\364\030\064\263\340\067\013\167
\021\001\110\277\141\264\265\370\031\331\313\115\352\243\214\357
\375\360\006\265\155\222\364\112\141\120\204\355\354\111\323\344
\276\150\346\056\343\061\013\124\013\032\222\326\202\330\266\242
\145\074\146\004\371\125\332\154\373\333\265\024\146\115\224\203
\073\315\036\246\053\262\376\167\100\206\253\347\337\012\311\375
\366\335\207\126\030\330\260\054\125\140\226\372\010\176\122\220
\365\113\246\056\207\174\313\040\333\006\076\240\135\003\167\175
\242\074\023\033\051\242\023\125\240\075\024\042\257\157\270\320
\232\033\162\335\005\001\215\206\140\277\244\147\356\265\245\015
\321\177\346\032\053\142\146\303\007\272\347\240\110\034\070\303
\351\105\373\247\177\374\355\002\150\032\312\167\022\167\246\000
\125\050\024\354\326\307\022\242\033\145\102\351\221\350\313\076
\207\211\124\135\331\257\235\227\234\151\347\012\377\017\132\170
\213\143\052\114\175\107\224\077\336\113\351\123\320\060\361\305
\366\236\111\337\073\240\221\243\243\376\315\130\314\352\337\257
\157\050\073\240\151\233\217\354\254\256\053\124\235\233\004\261
\107\040\257\226\022\076\143\224\035\004\347\056\273\206\307\014
\232\210\277\166\107\357\367\260\013\227\146\322\104\317\140\122
\007\341\325\054\112\072\047\141\167\312\327\217\347\207\016\060
\377\014\273\004\342\141\303\242\310\227\141\216\264\060\152\074
\155\302\007\137\112\163\057\077\371\026\212\001\146\357\272\221

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\312\122\127\173\256\324\346\017\335\013\172\177\213\236\046\040
\317\073\357\201\161\203\131
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Trust for "E-Tugra Global Root CA RSA v3"
# Issuer: CN=E-Tugra Global Root CA RSA v3,OU=E-Tugra Trust Center,O=E-Tugra EBG A.S.,L=Ankara,C=TR
# Serial Number:0d:4d:c5:cd:16:22:95:96:08:7e:b8:0b:7f:15:06:34:fb:79:10:34
# Subject: CN=E-Tugra Global Root CA RSA v3,OU=E-Tugra Trust Center,O=E-Tugra EBG
A.S.,L=Ankara,C=TR
# Not Valid Before: Wed Mar 18 09:07:17 2020
# Not Valid After: Sun Mar 12 09:07:17 2045
# Fingerprint (MD5): 22:be:10:f6:c2:f8:03:88:73:5f:33:29:47:28:47:a4
# Fingerprint (SHA1): e9:a8:5d:22:14:52:1c:5b:aa:0a:b4:be:24:6a:23:8a:c9:ba:e2:a9
CKA_CLASS
 CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "E-Tugra Global Root CA RSA v3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\351\250\135\042\024\122\034\133\252\012\264\276\044\152\043\212
\311\272\342\251
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\042\276\020\366\302\370\003\210\163\137\063\051\107\050\107\244
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\200\061\013\060\011\006\003\125\004\006\023\002\124\122
\061\017\060\015\006\003\125\004\007\023\006\101\156\153\141\162
\141\061\031\060\027\006\003\125\004\012\023\020\105\055\124\165
\147\162\141\040\105\102\107\040\101\056\123\056\061\035\060\033
\006\003\125\004\013\023\024\105\055\124\165\147\162\141\040\124
\162\165\163\164\040\103\145\156\164\145\162\061\046\060\044\006
\003\125\004\003\023\035\105\055\124\165\147\162\141\040\107\154
\157\142\141\154\040\122\157\157\164\040\103\101\040\122\123\101
\040\166\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\015\115\305\315\026\042\225\226\010\176\270\013\177\025
\006\064\373\171\020\064
END
CKA_TRUST_SERVER_AUTH
```

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 CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "E-Tugra Global Root CA ECC v3"
# Issuer: CN=E-Tugra Global Root CA ECC v3,OU=E-Tugra Trust Center,O=E-Tugra EBG A.S.,L=Ankara,C=TR
# Serial Number:26:46:19:77:31:e1:4f:6f:28:36:de:39:51:86:e6:d4:97:88:22:c1
# Subject: CN=E-Tugra Global Root CA ECC v3,OU=E-Tugra Trust Center,O=E-Tugra EBG
A.S.,L=Ankara,C=TR
# Not Valid Before: Wed Mar 18 09:46:58 2020
# Not Valid After: Sun Mar 12 09:46:58 2045
# Fingerprint (MD5): 46:bc:81:bb:f1:b5:1e:f7:4b:96:bc:14:e2:e7:27:64
# Fingerprint (SHA1): 8a:2f:af:57:53:b1:b0:e6:a1:04:ec:5b:6a:69:71:6d:f6:1c:e2:84
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE
 CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "E-Tugra Global Root CA ECC v3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\200\061\013\060\011\006\003\125\004\006\023\002\124\122
\061\017\060\015\006\003\125\004\007\023\006\101\156\153\141\162
\141\061\031\060\027\006\003\125\004\012\023\020\105\055\124\165
\147\162\141\040\105\102\107\040\101\056\123\056\061\035\060\033
\006\003\125\004\013\023\024\105\055\124\165\147\162\141\040\124
\162\165\163\164\040\103\145\156\164\145\162\061\046\060\044\006
\003\125\004\003\023\035\105\055\124\165\147\162\141\040\107\154
\157\142\141\154\040\122\157\157\164\040\103\101\040\105\103\103
\040\166\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\200\061\013\060\011\006\003\125\004\006\023\002\124\122
\061\017\060\015\006\003\125\004\007\023\006\101\156\153\141\162
\141\061\031\060\027\006\003\125\004\012\023\020\105\055\124\165
\147\162\141\040\105\102\107\040\101\056\123\056\061\035\060\033
\006\003\125\004\013\023\024\105\055\124\165\147\162\141\040\124
\162\165\163\164\040\103\145\156\164\145\162\061\046\060\044\006
\003\125\004\003\023\035\105\055\124\165\147\162\141\040\107\154
\157\142\141\154\040\122\157\157\164\040\103\101\040\105\103\103
\040\166\063
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\024\046\106\031\167\061\341\117\157\050\066\336\071\121\206
```

\346\324\227\210\042\301
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\245\060\202\002\052\240\003\002\001\002\002\024\046
\106\031\167\061\341\117\157\050\066\336\071\121\206\346\324\227
\210\042\301\060\012\006\010\052\206\110\316\075\004\003\003\060
\201\200\061\013\060\011\006\003\125\004\006\023\002\124\122\061
\017\060\015\006\003\125\004\007\023\006\101\156\153\141\162\141
\061\031\060\027\006\003\125\004\012\023\020\105\055\124\165\147
\162\141\040\105\102\107\040\101\056\123\056\061\035\060\033\006
\003\125\004\013\023\024\105\055\124\165\147\162\141\040\124\162
\165\163\164\040\103\145\156\164\145\162\061\046\060\044\006\003
\125\004\003\023\035\105\055\124\165\147\162\141\040\107\154\157
\142\141\154\040\122\157\157\164\040\103\101\040\105\103\103\040
\166\063\060\036\027\015\062\060\060\063\061\070\060\071\064\066
\065\070\132\027\015\064\065\060\063\061\062\060\071\064\066\065
\070\132\060\201\200\061\013\060\011\006\003\125\004\006\023\002
\124\122\061\017\060\015\006\003\125\004\007\023\006\101\156\153
\141\162\141\061\031\060\027\006\003\125\004\012\023\020\105\055
\124\165\147\162\141\040\105\102\107\040\101\056\123\056\061\035
\060\033\006\003\125\004\013\023\024\105\055\124\165\147\162\141
\040\124\162\165\163\164\040\103\145\156\164\145\162\061\046\060
\044\006\003\125\004\003\023\035\105\055\124\165\147\162\141\040
\107\154\157\142\141\154\040\122\157\157\164\040\103\101\040\105
\103\103\040\166\063\060\166\060\020\006\007\052\206\110\316\075
\002\001\006\005\053\201\004\000\042\003\142\000\004\216\230\051
\277\307\020\036\047\333\253\003\314\050\054\330\136\110\031\020
\051\314\313\131\201\314\214\270\222\027\211\203\052\222\366\303
\244\035\114\142\325\237\326\240\106\334\034\274\166\301\343\107
\320\133\023\332\347\245\263\146\110\347\041\232\112\117\206\012
\175\154\352\115\062\200\012\262\172\011\233\151\113\230\201\342
\056\354\002\160\226\037\375\365\106\316\312\334\202\243\143\060
\141\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001
\001\377\060\037\006\003\125\035\043\004\030\060\026\200\024\377
\202\061\162\076\371\304\146\154\255\070\236\321\260\121\210\245
\220\314\365\060\035\006\003\125\035\016\004\026\004\024\377\202
\061\162\076\371\304\146\154\255\070\236\321\260\121\210\245\220
\314\365\060\016\006\003\125\035\017\001\001\377\004\004\003\002
\001\006\060\012\006\010\052\206\110\316\075\004\003\003\003\151
\000\060\146\002\061\000\346\005\130\151\141\345\055\312\015\313
\361\031\010\275\326\375\121\222\032\176\143\124\004\220\221\232
\065\221\071\231\372\007\251\146\223\272\310\150\324\212\077\372
\355\156\026\002\047\267\002\061\000\335\132\027\053\166\035\145
\102\226\246\254\135\212\171\126\330\212\033\337\232\336\137\307
\120\217\261\133\161\014\046\337\152\100\000\354\063\221\041\161
\276\150\344\043\244\331\255\241\067
END
CKA_NSS_MOZILLA_CA_POLICY

```
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Trust for "E-Tugra Global Root CA ECC v3"
# Issuer: CN=E-Tugra Global Root CA ECC v3,OU=E-Tugra Trust Center,O=E-Tugra EBG A.S.,L=Ankara,C=TR
# Serial Number:26:46:19:77:31:e1:4f:6f:28:36:de:39:51:86:e6:d4:97:88:22:c1
# Subject: CN=E-Tugra Global Root CA ECC v3,OU=E-Tugra Trust Center,O=E-Tugra EBG
A.S.,L=Ankara,C=TR
# Not Valid Before: Wed Mar 18 09:46:58 2020
# Not Valid After: Sun Mar 12 09:46:58 2045
# Fingerprint (MD5): 46:bc:81:bb:f1:b5:1e:f7:4b:96:bc:14:e2:e7:27:64
# Fingerprint (SHA1): 8a:2f:af:57:53:b1:b0:e6:a1:04:ec:5b:6a:69:71:6d:f6:1c:e2:84
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN
 CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "E-Tugra Global Root CA ECC v3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\212\057\257\127\123\261\260\346\241\004\354\133\152\151\161\155
\366\034\342\204
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\106\274\201\273\361\265\036\367\113\226\274\024\342\347\047\144
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\200\061\013\060\011\006\003\125\004\006\023\002\124\122
\061\017\060\015\006\003\125\004\007\023\006\101\156\153\141\162
\141\061\031\060\027\006\003\125\004\012\023\020\105\055\124\165
\147\162\141\040\105\102\107\040\101\056\123\056\061\035\060\033
\006\003\125\004\013\023\024\105\055\124\165\147\162\141\040\124
\162\165\163\164\040\103\145\156\164\145\162\061\046\060\044\006
\003\125\004\003\023\035\105\055\124\165\147\162\141\040\107\154
\157\142\141\154\040\122\157\157\164\040\103\101\040\105\103\103
\040\166\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\046\106\031\167\061\341\117\157\050\066\336\071\121\206
\346\324\227\210\042\301
END
CKA_TRUST_SERVER_AUTH
 CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
```

```
# Microsoft Code Signing Only Certificate
# Certificate "SSL.com Code Signing RSA Root CA 2022"
# Issuer: CN=SSL.com Code Signing RSA Root CA 2022,O=SSL Corporation,C=US
# Serial Number:10:97:c4:9c:8c:25:43:28:bb:a6:e8:b9:9b:ab:4f:a1
# Subject: CN=SSL.com Code Signing RSA Root CA 2022,O=SSL Corporation,C=US
# Not Valid Before: Thu Aug 25 16:32:08 2022
# Not Valid After: Sun Aug 19 16:32:07 2046
# Fingerprint (MD5): 5b:a8:b3:07:28:99:7b:83:d4:78:17:4b:f3:af:25:18
# Fingerprint (SHA1): d4:69:52:84:cd:17:98:d9:cb:16:99:46:4c:06:49:94:c4:e2:bb:fd
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com Code Signing
 RSA Root CA 2022"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\127\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\030\060\026\006\003\125\004\012\014\017\123\123\114\040\103\157
\162\160\157\162\141\164\151\157\156\061\056\060\054\006\003\125
\004\003\014\045\123\123\114\056\143\157\155\040\103\157\144\145
\040\123\151\147\156\151\156\147\040\122\123\101\040\122\157\157
\164\040\103\101\040\062\060\062\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\127\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\030\060\026\006\003\125\004\012\014\017\123\123\114\040\103\157
\162\160\157\162\141\164\151\157\156\061\056\060\054\006\003\125
\004\003\014\045\123\123\114\056\143\157\155\040\103\157\144\145
\040\123\151\147\156\151\156\147\040\122\123\101\040\122\157\157
\164\040\103\101\040\062\060\062\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\020\227\304\234\214\045\103\050\273\246\350\271\233\253
\117\241
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\233\060\202\003\203\240\003\002\001\002\002\020\020
\227\304\234\214\045\103\050\273\246\350\271\233\253\117\241\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\127
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\030\060
\026\006\003\125\004\012\014\017\123\123\114\040\103\157\162\160
\157\162\141\164\151\157\156\061\056\060\054\006\003\125\004\003
\014\045\123\123\114\056\143\157\155\040\103\157\144\145\040\123
\151\147\156\151\156\147\040\122\123\101\040\122\157\157\164\040
\103\101\040\062\060\062\062\060\036\027\015\062\062\060\070\062
\065\061\066\063\062\060\070\132\027\015\064\066\060\070\061\071
```

\061\066\063\062\060\067\132\060\127\061\013\060\011\006\003\125
\004\006\023\002\125\123\061\030\060\026\006\003\125\004\012\014
\017\123\123\114\040\103\157\162\160\157\162\141\164\151\157\156
\061\056\060\054\006\003\125\004\003\014\045\123\123\114\056\143
\157\155\040\103\157\144\145\040\123\151\147\156\151\156\147\040
\122\123\101\040\122\157\157\164\040\103\101\040\062\060\062\062
\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001
\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001
\000\214\165\040\310\214\334\116\221\121\006\265\133\357\105\273
\331\376\140\353\112\223\207\354\377\227\217\140\223\236\161\141
\100\352\357\113\313\222\130\330\153\026\334\336\055\210\362\363
\323\004\226\300\045\147\041\345\035\333\237\122\201\366\000\053
\146\220\361\254\036\250\117\141\044\335\166\057\003\307\065\310
\066\254\201\123\140\042\300\121\222\231\357\350\046\056\231\124
\315\011\217\137\134\074\360\253\347\073\263\247\253\006\306\061
\227\276\114\355\364\006\201\061\202\113\120\020\265\240\021\171
\334\130\313\300\345\036\263\301\157\110\134\255\227\012\263\036
\254\056\127\330\275\276\070\120\104\343\063\375\327\301\265\277
\242\116\373\170\264\073\070\230\050\351\126\055\124\200\213\153
\176\035\343\225\206\247\236\027\124\106\133\136\377\237\346\153
\065\212\121\245\246\173\134\012\042\015\302\327\203\057\332\074
\075\362\212\036\375\036\076\241\330\034\117\156\010\122\156\117
\254\037\311\376\237\231\115\273\122\124\261\222\203\133\100\023
\357\024\265\063\221\074\202\244\253\365\252\110\152\351\270\373
\200\100\006\374\345\036\176\077\274\012\253\046\342\305\253\007
\004\327\115\170\265\353\332\153\123\133\123\212\246\362\327\136
\121\042\115\037\314\252\213\272\300\016\202\331\024\272\331\362
\055\367\045\270\313\251\103\322\114\104\036\026\165\314\265\344
\160\037\051\201\125\064\262\076\376\377\321\170\032\100\222\047
\052\150\045\265\322\236\357\274\370\024\113\157\122\043\026\153
\020\211\324\337\272\334\314\030\131\161\251\346\313\330\220\161
\275\040\364\244\152\046\111\225\235\106\030\105\026\211\037\025
\135\250\103\260\140\227\236\327\066\332\072\262\157\113\162\116
\231\166\327\060\067\367\246\235\273\333\135\246\356\174\030\354
\102\371\025\350\016\270\333\154\102\153\020\135\104\014\326\324
\316\202\214\357\053\060\213\161\341\010\362\101\221\143\343\376
\340\300\250\245\215\231\000\101\142\316\102\106\241\235\312\345
\232\234\121\333\140\172\104\125\016\052\052\160\244\231\377\052
\176\140\264\035\226\127\272\073\374\333\277\306\061\200\252\072
\000\031\057\210\037\111\244\353\167\100\367\114\203\356\202\221
\057\002\003\001\000\001\243\143\060\141\060\017\006\003\125\035
\023\001\001\377\004\005\060\003\001\001\377\060\037\006\003\125
\035\043\004\030\060\026\200\024\307\366\310\013\142\355\024\014
\243\027\266\252\271\036\321\340\203\126\241\135\060\035\006\003
\125\035\016\004\026\004\024\307\366\310\013\142\355\024\014\243
\027\266\252\271\036\321\340\203\126\241\135\060\016\006\003\125
\035\017\001\001\377\004\004\003\002\001\206\060\015\006\011\052
\206\110\206\367\015\001\001\013\005\000\003\202\002\001\000\142

\120\336\062\077\353\066\065\170\215\211\167\110\017\017\243\135
\007\250\272\366\122\077\066\122\316\265\300\171\114\353\135\053
\370\022\254\103\333\347\173\214\051\052\237\153\072\323\174\365
\025\167\227\073\375\041\375\363\310\134\311\076\005\224\257\173
\253\350\215\342\257\015\300\240\033\337\257\013\272\252\264\105
\125\201\310\141\231\141\270\260\232\350\131\314\011\023\331\247
\126\007\206\356\355\240\354\215\001\145\232\231\314\043\242\300
\221\035\135\006\335\015\247\372\074\304\304\131\042\306\233\072
\300\035\151\075\054\266\261\036\212\276\075\202\017\153\061\162
\140\127\220\013\124\212\336\125\012\036\165\111\000\154\266\112
\063\357\106\330\326\313\304\361\174\154\011\226\351\251\341\030
\375\257\377\264\317\147\157\177\007\245\110\215\005\020\226\071
\220\171\132\226\267\343\346\067\070\062\261\306\061\001\044\164
\002\304\313\013\317\272\166\276\134\212\040\303\351\164\147\353
\155\022\234\071\075\340\212\325\053\113\044\343\171\214\110\234
\221\253\327\202\041\070\277\304\263\301\007\356\220\075\255\372
\242\276\051\133\122\061\252\154\263\034\165\363\346\240\330\214
\003\226\210\272\370\312\121\063\141\013\035\325\153\234\023\031
\056\026\317\317\015\207\113\227\304\007\331\013\253\230\221\352
\272\007\203\230\222\100\012\040\315\270\153\232\367\200\376\073
\311\342\371\103\310\050\347\115\227\027\300\167\363\060\352\046
\204\033\325\123\274\060\205\137\151\356\074\264\011\350\261\233
\244\070\202\272\353\300\152\214\155\053\050\060\170\344\062\253
\267\033\341\122\044\000\221\347\113\032\333\241\210\014\156\352
\135\034\107\231\215\161\115\275\336\336\100\231\004\263\100\341
\303\213\252\304\222\030\227\173\374\314\203\200\074\332\051\362
\177\316\304\151\000\233\141\175\155\226\326\025\202\214\365\203
\052\034\367\123\166\162\045\360\051\200\304\062\144\123\017\117
\124\364\127\015\326\013\334\376\162\210\264\137\113\331\036\077
\003\206\057\071\020\066\247\061\305\046\007\225\213\110\161\361
\253\054\006\352\322\034\116\225\215\347\027\352\255\261\106\105
\323\066\375\313\304\141\157\011\042\104\062\047\247\153\150
END
CKA_NSS_MOZILLA_CA_POLICY
CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

#
Microsoft Code Signing Only Certificate
Trust for "SSL.com Code Signing RSA Root CA 2022"
Issuer: CN=SSL.com Code Signing RSA Root CA 2022,O=SSL Corporation,C=US
Serial Number:10:97:c4:9c:8c:25:43:28:bb:a6:e8:b9:9b:ab:4f:a1
Subject: CN=SSL.com Code Signing RSA Root CA 2022,O=SSL Corporation,C=US
Not Valid Before: Thu Aug 25 16:32:08 2022
Not Valid After: Sun Aug 19 16:32:07 2046
Fingerprint (MD5): 5b:a8:b3:07:28:99:7b:83:d4:78:17:4b:f3:af:25:18
Fingerprint (SHA1): d4:69:52:84:cd:17:98:d9:cb:16:99:46:4c:06:49:94:c4:e2:bb:fd

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com Code Signing RSA Root CA 2022"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\324\151\122\204\315\027\230\331\313\026\231\106\114\006\111\224
\304\342\273\375
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\133\250\263\007\050\231\173\203\324\170\027\113\363\257\045\030
END
CKA_ISSUER MULTILINE_OCTAL
\060\127\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\030\060\026\006\003\125\004\012\014\017\123\123\114\040\103\157
\162\160\157\162\141\164\151\157\156\061\056\060\054\006\003\125
\004\003\014\045\123\123\114\056\143\157\155\040\103\157\144\145
\040\123\151\147\156\151\156\147\040\122\123\101\040\122\157\157
\164\040\103\101\040\062\060\062\062
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\020\227\304\234\214\045\103\050\273\246\350\271\233\253
\117\241
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "SSL.com Code Signing ECC Root CA 2022"
# Issuer: CN=SSL.com Code Signing ECC Root CA 2022,O=SSL Corporation,C=US
# Serial Number:6e:8e:e4:5b:10:4c:c9:0c:7e:b4:d8:88:8f:e5:ec:64
# Subject: CN=SSL.com Code Signing ECC Root CA 2022,O=SSL Corporation,C=US
# Not
 Valid Before: Thu Aug 25 16:31:35 2022
# Not Valid After: Sun Aug 19 16:31:34 2046
# Fingerprint (MD5): aa:b1:b5:a9:b3:57:91:7d:fa:8f:2e:68:33:fb:55:a5
# Fingerprint (SHA1): 0d:9e:9a:b2:07:65:a8:9e:d9:cd:8d:f2:c7:a6:3b:c7:74:95:ef:31
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com Code Signing ECC Root CA 2022"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\127\061\013\060\011\006\003\125\004\006\023\002\125\123\061
```

\030\060\026\006\003\125\004\012\014\017\123\123\114\040\103\157
\162\160\157\162\141\164\151\157\156\061\056\060\054\006\003\125
\004\003\014\045\123\123\114\056\143\157\155\040\103\157\144\145
\040\123\151\147\156\151\156\147\040\105\103\103\040\122\157\157
\164\040\103\101\040\062\060\062\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\127\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\030\060\026\006\003\125\004\012\014\017\123\123\114\040\103\157
\162\160\157\162\141\164\151\157\156\061\056\060\054\006\003\125
\004\003\014\045\123\123\114\056\143\157\155\040\103\157\144\145
\040\123\151\147\156\151\156\147\040\105\103\103\040\122\157\157
\164\040\103\101\040\062\060\062\062
END
CKA_SERIAL_NUMBER
 MULTILINE_OCTAL
\002\020\156\216\344\133\020\114\311\014\176\264\330\210\217\345
\354\144
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\113\060\202\001\322\240\003\002\001\002\002\020\156
\216\344\133\020\114\311\014\176\264\330\210\217\345\354\144\060
\012\006\010\052\206\110\316\075\004\003\003\060\127\061\013\060
\011\006\003\125\004\006\023\002\125\123\061\030\060\026\006\003
\125\004\012\014\017\123\123\114\040\103\157\162\160\157\162\141
\164\151\157\156\061\056\060\054\006\003\125\004\003\014\045\123
\123\114\056\143\157\155\040\103\157\144\145\040\123\151\147\156
\151\156\147\040\105\103\103\040\122\157\157\164\040\103\101\040
\062\060\062\062\060\036\027\015\062\062\060\070\062\065\061\066
\063\061\063\065\132\027\015\064\066\060\070\061\071\061\066\063
\061\063\064\132\060\127\061\013\060\011\006\003\125\004\006\023
\002\125\123\061\030\060\026\006\003\125\004\012\014\017\123\123
\114\040\103\157\162\160\157\162\141\164\151\157\156\061\056\060
\054\006\003\125\004\003\014\045\123\123\114\056\143\157\155\040
\103\157\144\145\040\123\151\147\156\151\156\147\040\105\103\103
\040\122\157\157\164\040\103\101\040\062\060\062\062\060\166\060
\020\006\007\052\206\110\316\075\002\001\006\005\053\201\004\000
\042\003\142\000\004\166\310\254\324\326\225\222\174\027\062\345
\313\153\101\371\051\273\261\353\242\166\265\066\330\154\113\215
\345\076\112\127\046\046\307\237\073\137\106\146\047\121\300\054
\143\034\164\335\254\071\323\157\075\016\224\276\276\053\060\222
\316\242\102\126\015\120\324\244\054\161\364\047\141\333\240\201
\077\325\115\126\026\265\314\034\067\313\063\064\021\150\307\074
\173\015\351\224\315\243\143\060\141\060\017\006\003\125\035\023
\001\001\377\004\005\060\003\001\001\377\060\037\006\003\125\035
\043\004\030\060\026\200\024\130\136\026\303\055\263\346\352\243
\111\263\245\276\326\336\256\171\225\153\215\060\035\006\003\125

```
\035\016\004\026\004\024\130\136\026\303\055\263\346\352\243\111
\263\245\276\326\336\256\171\225\153\215\060\016\006\003\125\035
\017\001\001\377\004\004\003\002\001\206\060\012\006\010\052\206
\110\316\075\004\003\003\003\147\000\060\144\002\060\123\214\163
\061\116\200\134\267\236\073\017\010\130\023\276\331\100\366\361
\277\175\367\231\240\353\314\200\000\015\252\160\066\355\066\043
\173\101\270\024\025\126\166\323\226\343\025\205\144\002\060\044
\344\366\370\275\023\156\072\267\077\334\277\315\170\337\046\200
\127\022\257\150\147\117\377\362\053\261\242\241\231\264\303\223
\033\216\172\313\174\277\024\216\353\352\270\376\341\003\137
END
CKA_NSS_MOZILLA_CA_POLICY
 CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
#
 Trust for "SSL.com Code Signing ECC Root CA 2022"
# Issuer: CN=SSL.com Code Signing ECC Root CA 2022,O=SSL Corporation,C=US
# Serial Number:6e:8e:e4:5b:10:4c:c9:0c:7e:b4:d8:88:8f:e5:ec:64
# Subject: CN=SSL.com Code Signing ECC Root CA 2022,O=SSL Corporation,C=US
# Not Valid Before: Thu Aug 25 16:31:35 2022
# Not Valid After: Sun Aug 19 16:31:34 2046
# Fingerprint (MD5): aa:b1:b5:a9:b3:57:91:7d:fa:8f:2e:68:33:fb:55:a5
# Fingerprint (SHA1): 0d:9e:9a:b2:07:65:a8:9e:d9:cd:8d:f2:c7:a6:3b:c7:74:95:ef:31
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com Code Signing ECC Root CA 2022"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\015\236\232\262\007\145\250\236\331\315\215\362\307\246\073\307
\164\225\357\061
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\252\261\265\251\263\127\221\175\372\217\056\150\063\373\125\245
END
CKA_ISSUER MULTILINE_OCTAL
\060\127\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\030\060\026\006\003\125\004\012\014\017\123\123\114\040\103\157
\162\160\157\162\141\164\151\157\156\061\056\060\054\006\003\125
\004\003\014\045\123\123\114\056\143\157\155\040\103\157\144\145
\040\123\151\147\156\151\156\147\040\105\103\103\040\122\157\157
\164\040\103\101\040\062\060\062\062
END
CKA_SERIAL_NUMBER
```

MULTILINE_OCTAL
\002\020\156\216\344\133\020\114\311\014\176\264\330\210\217\345
\354\144
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Found in path(s):
* /opt/cola/permits/2160682333_1726669393.3738756/0/ca-certificates-2024.2.69_v8.0.303-80.0.el8_10.src.rpm-cosi-expand-archive-9L2JT0jM/certdata.txt
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Found in path(s):
* /opt/cola/permits/2160682333_1726669393.3738756/0/ca-certificates-2024.2.69_v8.0.303-80.0.el8_10.src.rpm-cosi-expand-archive-9L2JT0jM/nssckbi.h

1.4929 jaraco.context 6.0.1

1.4929.1 Available under license :

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1.4930 lib-pq 1.10.9

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```
//go:build go1.10
// +build go1.10

package pq

import (
 "context"
 "database/sql/driver"
)

// NoticeHandler returns the notice handler on the given connection, if any. A
// runtime panic occurs if c is not a pq connection. This is rarely used
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
 return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A
// runtime panic occurs if c is not a pq connection. A nil handler may be used
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and
// ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
 c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
//
 on it.
type NoticeHandlerConnector struct {
 driver.Connector
 noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
 c, err := n.Connector.Connect(ctx)
 if err == nil {
  SetNoticeHandler(c, n.noticeHandler)
 }
 return c, err
```

```
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  return c.noticeHandler
 }
 return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and
 setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  c.noticeHandler = handler
  return c
 }
 return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}
```

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1.4931 kr-fs 0.1.0

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1.4932 cpuid 2.2.5

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1.4933 httprouter 1.3.0

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1.4934 go-connections 0.4.0

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1.4935 go-capability 0.0.0-20200815063812-42c35b437635

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1.4936 speakeasy 0.1.0

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1.4937 reflectwalk 1.0.2

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1.4938 color 1.13.0

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1.4939 mitchellh-copystructure 1.2.0

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1.4940 logrus 1.4.2

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1.4941 structs 1.1.0

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1.4942 mergo 0.3.12

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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

1.4943 gofuzz 1.1.0

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1.4945 xstrings 1.3.2

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1.4946 golang-protobuf-extensions 1.0.1

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1.4950 go-md2man 2.0.2

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1.4951 sql-migrate 1.5.2

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1.4952 gorp 3.1.0

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1.4953 go-cache 2.1.0+incompatible

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1.4954 google-golang-org-genproto 0.0.0-20240722135656-d784300faade

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1.4955 go-msgpack 0.5.5

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1.4956 kr-text 0.2.0

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1.4957 go-ntlmssp 0.0.0-20200615164410-66371956d46c

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1.4958 go-runewidth 0.0.16

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1.4959 checker-qual 3.43.0

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1.4960 scala-reflect 2.13.14

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1.4969 mikefarah-yq 4.44.1

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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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file (certdata.txt). This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
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1.4972 glibc 2.28-251.el8_10.4

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@page
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Ty Coon, President of Vice
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1.4974 spring-framework 5.3.39

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* /opt/cola/permits/2168063377_1725083020.838237/0/spring-core-5-3-39-sources-jar/org/springframework/core/codec/NettyByteBufDecoder.java
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 /opt/cola/permits/2168063377_1725083020.838237/0/spring-core-5-3-39-sources-jar/org/springframework/core/io/ClassRelativeResourceLoader.java
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* /opt/cola/permits/2168063377_1725083020.838237/0/spring-core-5-3-39-sources-jar/org/springframework/util/concurrent/ListenableFuture.java
* /opt/cola/permits/2168063377_1725083020.838237/0/spring-core-5-3-39-sources-jar/org/springframework/core/ExceptionDepthComparator.java
* /opt/cola/permits/2168063377_1725083020.838237/0/spring-core-5-3-39-sources-jar/org/springframework/util/xml/AbstractXMLEventReader.java
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* /opt/cola/permits/2168063377_1725083020.838237/0/spring-core-5-3-39-sources-jar/org/springframework/core/io/InputStreamResource.java
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* /opt/cola/permits/2168063377_1725083020.838237/0/spring-core-5-3-39-sources-
jar/org/springframework/core/type/classreading/AbstractRecursiveAnnotationVisitor.java
* /opt/cola/permits/2168063377_1725083020.838237/0/spring-core-5-3-39-sources-
jar/org/springframework/util/xml/StaxUtils.java
* /opt/cola/permits/2168063377_1725083020.838237/0/spring-core-5-3-39-sources-
jar/org/springframework/util/xml/AbstractStaxXMLReader.java
* /opt/cola/permits/2168063377_1725083020.838237/0/spring-core-5-3-39-sources-
jar/org/springframework/core/annotation/AnnotationAwareOrderComparator.java
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org.springframework.core.ReactiveAdapterRegistry$SpringCoreBlockHoundIntegration

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* /opt/cola/permits/2168063377_1725083020.838237/0/spring-core-5-3-39-sources-jar/org/springframework/cglib/core/AbstractClassGenerator.java
* /opt/cola/permits/2168063377_1725083020.838237/0/spring-core-5-3-39-sources-jar/org/springframework/cglib/beans/BeanCopier.java
* /opt/cola/permits/2168063377_1725083020.838237/0/spring-core-5-3-39-sources-jar/org/springframework/cglib/beans/ImmutableBean.java
* /opt/cola/permits/2168063377_1725083020.838237/0/spring-core-5-3-39-sources-jar/org/springframework/cglib/core/ReflectUtils.java
* /opt/cola/permits/2168063377_1725083020.838237/0/spring-core-5-3-39-sources-jar/org/springframework/cglib/beans/BulkBeanEmitter.java
* /opt/cola/permits/2168063377_1725083020.838237/0/spring-core-5-3-39-sources-jar/org/springframework/cglib/beans/BeanMap.java
* /opt/cola/permits/2168063377_1725083020.838237/0/spring-core-5-3-39-sources-jar/org/springframework/cglib/core/AsmApi.java
* /opt/cola/permits/2168063377_1725083020.838237/0/spring-core-5-3-39-sources-jar/org/springframework/cglib/core/KeyFactory.java
* /opt/cola/permits/2168063377_1725083020.838237/0/spring-core-5-3-39-sources-jar/org/springframework/cglib/beans/BeanMapEmitter.java
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* /opt/cola/permits/2168063377_1725083020.838237/0/spring-core-5-3-39-sources-jar/org/springframework/util/NumberUtils.java
* /opt/cola/permits/2168063377_1725083020.838237/0/spring-core-5-3-39-sources-jar/org/springframework/core/convert/support/AbstractConditionalEnumConverter.java
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/opt/cola/permits/2168063377_1725083020.838237/0/spring-core-5-3-39-sources-jar/org/springframework/core/convert/support/ObjectToObjectConverter.java
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* /opt/cola/permits/2168063377_1725083020.838237/0/spring-core-5-3-39-sources-jar/org/springframework/core/SerializableTypeWrapper.java

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* /opt/cola/permits/2168063377_1725083020.838237/0/spring-core-5-3-39-sources-jar/org/springframework/core/io/support/ResourcePropertiesPersister.java
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* /opt/cola/permits/2168063377_1725083020.838237/0/spring-core-5-3-39-sources-jar/org/springframework/core/io/support/PathMatchingResourcePatternResolver.java
* /opt/cola/permits/2168063377_1725083020.838237/0/spring-core-5-3-39-sources-jar/org/springframework/util/ClassUtils.java
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* /opt/cola/permits/2168063377_1725083020.838237/0/spring-core-5-3-39-sources-jar/org/springframework/core/io/buffer/DataBufferUtils.java
* /opt/cola/permits/2168063377_1725083020.838237/0/spring-core-5-3-39-sources-jar/org/springframework/core/ReactiveTypeDescriptor.java
* /opt/cola/permits/2168063377_1725083020.838237/0/spring-core-5-3-39-sources-jar/org/springframework/util/StringUtils.java

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1.4982 libseccomp 2.5.5-1ubuntu3.1

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freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software---to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software---typically
libraries---of the Free
Software Foundation and other authors who decide to use it. You can use
it too, but we suggest you first think carefully about whether this
license or the ordinary General Public License is the better strategy to
use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get

it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative

of the original library. The ordinary
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.

We call this license the @dfn{Lesser} General Public License because it
does @emph{Less} to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the
same job as widely used non-free libraries. In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
``work based on the library'' and a ``work that uses the library''. The
former
contains code derived from the library, whereas the latter must
be combined with the library in order to run.

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@enumerate 0
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authorized party saying it may be distributed under the terms of this Lesser General Public License (also called ``this License''). Each licensee is addressed as ``you''.

A ``library'' means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The ``Library'', below, refers to any such software library or work which has been distributed under these terms. A ``work based on the Library'' means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it,
either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term ``modification''.)

``Source code'' for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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You may copy and distribute
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complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

@item
You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and

distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

@enumerate a
@item
The modified work must itself be a software library.

@item
You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

@item
You must
 cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

@item
If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)
@end enumerate

These requirements apply to the modified work as a whole. If
identifiable sections
 of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or

collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this
License.

@item
You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

@item
You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and
2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

@item
A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a ``work that uses the Library''. Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a ``work that uses the Library'' with the Library

creates an executable that is a derivative of the Library (because
it
contains portions of the Library), rather than a ``work that uses the
library''. The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a ``work that uses the Library'' uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise,
if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

@item
As an exception to the Sections above, you may also combine or
link a ``work that uses the Library'' with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of
this License. Also, you must do one
of these things:

@enumerate a
@item
Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under

Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable ``work that
uses the Library'', as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

@item
Use a suitable shared library mechanism for linking with the Library. A
suitable mechanism is one that (1) uses at run time a copy of the
library already present on the user's computer system, rather than
copying library functions into the executable,
and (2) will operate
properly with a modified version of the library, if the user installs
one, as long as the modified version is interface-compatible with the
version that the work was made with.

@item
Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

@item
If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

@item
Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.
@end enumerate

For an executable, the required form of the ``work that uses the
Library'' must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that
is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the
executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot

use both them and the Library together in an executable that you
distribute.

@item
You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

@enumerate a
@item
Accompany the combined library with a copy of the same work
based on the Library,
uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.

@item
Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.
@end enumerate

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and the section as a whole is intended to apply in other circumstances.

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decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

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@end enumerate

@subheading END OF TERMS AND CONDITIONS

@page
@subheading How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the ``copyright'' line and a pointer to where the full notice is found.

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@end
smallexample

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a ``copyright disclaimer'' for the library, if

necessary. Here is a sample; alter the names:

@smallexample
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`Frob' (a library for tweaking knobs) written by James Random Hacker.

@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

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Version 2, June 1991

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Program does.

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause
any work that you distribute or publish, that in
whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this

License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for

making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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1.4989 e2fsprogs 1.47.0-2.4~exp1ubuntu4.1

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```
Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
 /*
-   Unix SMB/CIFS implementation.
+   trivial database library - standalone version

-   trivial database library - private includes
-
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Upstream-Name: e2fsprogs
Upstream-Contact: Theodore Ts'o <tytso@mit.edu>
Source: http://sourceforge.net/projects/e2fsprogs
Comment:
This is the Debian GNU/Linux prepackaged version of the EXT2 file
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Theodore Ts'o
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```
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```

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```
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```

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in some sense simply using the library, and is
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header files, but we have achieved it as regards
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or if the work is itself a library. The
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If such an object file uses only numerical parameters, data
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with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then
relink to produce a modified
executable containing the modified Library. (It is understood
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```
 Yoyodyne, Inc., hereby disclaims all copyright interest in the
 library `Frob' (a library for tweaking knobs) written by James Random Hacker.

 <signature of Ty Coon>, 1 April 1990
 Ty Coon, President of Vice
```

That's all there is to it!

```
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
 @echo " MKDIR pic"
 @mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:  $(BSD_LIB)

$(BSD_LIB): $(OBJS)
 (cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
 $(MV) pic/$(BSD_LIB) .
 $(RM) -f ../$(BSD_LIB)
 (cd ..; $(LN) $(LINK_BUILD_FLAGS) \
  `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
 @echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
 @$(INSTALL_PROGRAM) $(BSD_LIB) \
  $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
 @-$(LDCONFIG)
```

```
install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
 $(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
 $(RM)
 -rf pic
 $(RM) -f $(BSD_LIB)
 $(RM) -f ../$(BSD_LIB)
```

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* /opt/cola/permits/2170087999_1725369403.11005/0/netty-common-4-1-112-final-sources-1-jar/io/netty/util/DomainMappingBuilder.java
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* /opt/cola/permits/2170087999_1725369403.11005/0/netty-common-4-1-112-final-sources-1-jar/io/netty/util/AttributeMap.java
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* /opt/cola/permits/2170087999_1725369403.11005/0/netty-common-4-1-112-final-sources-1-jar/io/netty/util/DomainWildcardMappingBuilder.java
* /opt/cola/permits/2170087999_1725369403.11005/0/netty-common-4-1-112-final-sources-1-jar/io/netty/util/NetUtilSubstitutions.java
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* /opt/cola/permits/2170087999_1725369403.11005/0/netty-common-4-1-112-final-sources-1-jar/io/netty/util/concurrent/AbstractFuture.java
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* /opt/cola/permits/2170087999_1725369403.11005/0/netty-common-4-1-112-final-sources-1-jar/io/netty/util/concurrent/GenericProgressiveFutureListener.java
* /opt/cola/permits/2170087999_1725369403.11005/0/netty-common-4-1-112-final-sources-1-jar/io/netty/util/internal/TypeParameterMatcher.java
* /opt/cola/permits/2170087999_1725369403.11005/0/netty-common-4-1-112-final-sources-1-jar/io/netty/util/ConstantPool.java
* /opt/cola/permits/2170087999_1725369403.11005/0/netty-common-4-1-112-final-sources-1-jar/io/netty/util/internal/ConcurrentSet.java
*
/opt/cola/permits/2170087999_1725369403.11005/0/netty-common-4-1-112-final-sources-1-jar/io/netty/util/internal/RecyclableArrayList.java
* /opt/cola/permits/2170087999_1725369403.11005/0/netty-common-4-1-112-final-sources-1-jar/io/netty/util/concurrent/ImmediateEventExecutor.java
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io.netty.util.internal.Hidden$NettyBlockHoundIntegration

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* /opt/cola/permits/2170087999_1725369403.11005/0/netty-common-4-1-112-final-sources-1-jar/META-INF/services/reactor.blockhound.integration.BlockHoundIntegration
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<one line to give the program's name and a brief idea of what it does.>
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when it starts in an interactive mode:

```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the
commands you use may be called something other than `show w' and `show
c'; they could even be mouse-clicks or menu items--whatever suits your
program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here a sample; alter
the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

That's all there is to it!

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1.4995 term 0.23.0

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1.4996 google.golang.org/genproto/googleapis/rpc 0.0.0-20240814211410-ddb44dafa142

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1.4997 metrics-jvm 4.2.26

1.4997.1 Available under license :

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.jvm
Build-Jdk-Spec: 17
Bundle-Description: A set of classes which allow you to monitor critic
al aspects of your Java Virtual Machine using Metrics.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: JVM Integration for Metrics
Bundle-SymbolicName: io.dropwizard.metrics.jvm
Bundle-Version: 4.2.26
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics.jvm;uses:="com.codahale.metrics,j
avax.management";version="4.2.26"
Implementation-Title: JVM Integration for Metrics
Implementation-Version: 4.2.26
Import-Package: org.slf4j;version="[1.6.0,2.0.0)",com.sun.management;r
esolution:=optional,com.codahale.metrics;version="[4.2,5)",javax.mana
gement
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /opt/cola/permits/2172708511_1725563530.7037084/0/metrics-jvm-4-2-26-jar/META-INF/MANIFEST.MF

1.4998 golang 1.22.7

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#
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#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/ftzconf.c
src/gzip/infblock.c
src/gzip/infblock.h
```

src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
subprojects/dlg
#
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---
fontconfig/fc-case/CaseFolding.txt

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---
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---

fontconfig/src/fcfoundry.h

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*/

---

fontconfig/src/fcmd5.h

/*
* This code implements the MD5 message-digest algorithm.
* The algorithm is due to Ron Rivest. This code was
* written by Colin Plumb in 1993, no copyright is claimed.
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*
* Equivalent code is available from RSA Data Security, Inc.
* This code has been tested against that, and is equivalent,
* except that you don't need to include two pages of legalese
* with every copy.

```
*
* To compute the message digest of a chunk of bytes, declare an
* MD5Context structure, pass it to MD5Init, call MD5Update
 as
* needed on buffers full of bytes, and then call MD5Final, which
* will fill a supplied 16-byte array with the digest.
*/
```

---

fontconfig/src/fcmutex.h

```
/*
* Atomic int and pointer operations.  Originally copied from HarfBuzz.
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*/
```

---

fontconfig/src/ftglue.[ch]

```
/* ftglue.c: Glue code for compiling the OpenType code from
*          FreeType 1 using only the public API of FreeType 2
*
* By David Turner, The FreeType Project (www.freetype.org)
*
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*
* ============================================================================
*
* the OpenType
 parser codes was originally written as an extension to
* FreeType 1.x. As such, its source code was embedded within the library,
* and used many internal FreeType functions to deal with memory and
* stream i/o.
*
* When it was 'salvaged' for Pango and Qt, the code was "ported" to FreeType 2,
* which basically means that some macro tricks were performed in order to
* directly access FT2 _internal_ functions.
*
* these functions were never part of FT2 public API, and _did_ change between
* various releases. This created chaos for many users: when they upgraded the
* FreeType library on their system, they couldn't run Gnome anymore since
* Pango refused to link.
*
* Very fortunately, it's possible to completely avoid this problem because
* the FT_StreamRec and FT_MemoryRec structure types, which describe how
* memory and stream implementations interface with the rest of the font
* library, have always been part of the public API, and never changed.
*
* What we do
 thus is re-implement, within the OpenType parser, the few
* functions that depend on them. This only adds one or two kilobytes of
* code, and ensures that the parser can work with _any_ version
* of FreeType installed on your system. How sweet... !
*
* Note that we assume that Pango doesn't use any other internal functions
* from FreeType. It used to in old versions, but this should no longer
* be the case. (crossing my fingers).
*
*  - David Turner
*  - The FreeType Project  (www.freetype.org)
*
* PS: This "glue" code is explicitely put in the public domain
*/
```

1.5002 libpng16-16t64 1.6.43-5build1

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1.5004 stdlib go1.23.1

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1.5005 golang 1.23.1

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1.5007 x-net 0.29.0

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1.5009 urfave-cli 1.22.4

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1.5013 go-toml 2.2.3

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1.5014 pyasn1-modules 0.4.1

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 /opt/cola/permits/2178619191_1726024052.720645/0/netty-resolver-dns-4-1-110-final-sources-1-jar/io/netty/resolver/dns/DnsResolveContext.java
* /opt/cola/permits/2178619191_1726024052.720645/0/netty-resolver-dns-4-1-110-final-sources-1-jar/io/netty/resolver/dns/DnsServerAddresses.java
* /opt/cola/permits/2178619191_1726024052.720645/0/netty-resolver-dns-4-1-110-final-sources-1-jar/io/netty/resolver/dns/DnsQueryContext.java
* /opt/cola/permits/2178619191_1726024052.720645/0/netty-resolver-dns-4-1-110-final-sources-1-jar/io/netty/resolver/dns/DnsAddressResolverGroup.java
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* /opt/cola/permits/2178619191_1726024052.720645/0/netty-resolver-dns-4-1-110-final-sources-1-

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* /opt/cola/permits/2178619191_1726024052.720645/0/netty-resolver-dns-4-1-110-final-sources-1-jar/io/netty/resolver/dns/NoopDnsCache.java
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* /opt/cola/permits/2178619191_1726024052.720645/0/netty-resolver-dns-4-1-110-final-sources-1-jar/io/netty/resolver/dns/UnixResolverOptions.java
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*
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1.5016 netty-transport-native-unix-common 4.1.110.Final

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1.5017 netty-handler 4.1.110.Final

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* /opt/cola/permits/2178619203_1726024032.362123/0/netty-handler-4-1-110-final-sources-1-jar/io/netty/handler/ssl/Java7SslParametersUtils.java
*
/opt/cola/permits/2178619203_1726024032.362123/0/netty-handler-4-1-110-final-sources-1-jar/io/netty/handler/ssl/JdkSslContext.java

* /opt/cola/permits/2178619203_1726024032.362123/0/netty-handler-4-1-110-final-sources-1-jar/io/netty/handler/ssl/JdkSslServerContext.java
* /opt/cola/permits/2178619203_1726024032.362123/0/netty-handler-4-1-110-final-sources-1-jar/io/netty/handler/ssl/OpenSslEngineMap.java
* /opt/cola/permits/2178619203_1726024032.362123/0/netty-handler-4-1-110-final-sources-1-jar/io/netty/handler/ssl/OpenSslContext.java
* /opt/cola/permits/2178619203_1726024032.362123/0/netty-handler-4-1-110-final-sources-1-jar/io/netty/handler/ssl/util/OpenJdkSelfSignedCertGenerator.java
* /opt/cola/permits/2178619203_1726024032.362123/0/netty-handler-4-1-110-final-sources-1-jar/io/netty/handler/ssl/CipherSuiteConverter.java
* /opt/cola/permits/2178619203_1726024032.362123/0/netty-handler-4-1-110-final-sources-1-jar/io/netty/handler/ssl/OpenSslNpnApplicationProtocolNegotiator.java
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/opt/cola/permits/2178619203_1726024032.362123/0/netty-handler-4-1-110-final-sources-1-jar/io/netty/handler/ssl/PemReader.java
* /opt/cola/permits/2178619203_1726024032.362123/0/netty-handler-4-1-110-final-sources-1-jar/io/netty/handler/ssl/ApplicationProtocolUtil.java
* /opt/cola/permits/2178619203_1726024032.362123/0/netty-handler-4-1-110-final-sources-1-jar/io/netty/handler/ssl/JdkApplicationProtocolNegotiator.java
* /opt/cola/permits/2178619203_1726024032.362123/0/netty-handler-4-1-110-final-sources-1-jar/io/netty/handler/ssl/SslUtils.java
* /opt/cola/permits/2178619203_1726024032.362123/0/netty-handler-4-1-110-final-sources-1-jar/io/netty/handler/ssl/JettyAlpnSslEngine.java
* /opt/cola/permits/2178619203_1726024032.362123/0/netty-handler-4-1-110-final-sources-1-jar/io/netty/handler/ipfilter/RuleBasedIpFilter.java
* /opt/cola/permits/2178619203_1726024032.362123/0/netty-handler-4-1-110-final-sources-1-jar/io/netty/handler/ssl/OpenSslApplicationProtocolNegotiator.java
* /opt/cola/permits/2178619203_1726024032.362123/0/netty-handler-4-1-110-final-sources-1-jar/io/netty/handler/ssl/SupportedCipherSuiteFilter.java
*
/opt/cola/permits/2178619203_1726024032.362123/0/netty-handler-4-1-110-final-sources-1-jar/io/netty/handler/ssl/util/InsecureTrustManagerFactory.java
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* /opt/cola/permits/2178619203_1726024032.362123/0/netty-handler-4-1-110-final-sources-1-jar/io/netty/handler/ssl/ApplicationProtocolNegotiator.java
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* /opt/cola/permits/2178619203_1726024032.362123/0/netty-handler-4-1-110-final-sources-1-jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java
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* /opt/cola/permits/2178619203_1726024032.362123/0/netty-handler-4-1-110-final-sources-1-jar/io/netty/handler/ssl/PemValue.java

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* /opt/cola/permits/2178619203_1726024032.362123/0/netty-handler-4-1-110-final-sources-1-jar/io/netty/handler/ssl/OpenSslAsyncPrivateKeyMethod.java
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* /opt/cola/permits/2178619203_1726024032.362123/0/netty-handler-4-1-110-final-sources-1-jar/io/netty/handler/ssl/OpenSslSessionId.java
* /opt/cola/permits/2178619203_1726024032.362123/0/netty-handler-4-1-110-final-sources-1-jar/io/netty/handler/ssl/OpenSslContextOption.java
* /opt/cola/permits/2178619203_1726024032.362123/0/netty-handler-4-1-110-final-sources-1-jar/io/netty/handler/ssl/OpenSslSessionCache.java
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/opt/cola/permits/2178619203_1726024032.362123/0/netty-handler-4-1-110-final-sources-1-jar/io/netty/handler/ssl/util/TrustManagerFactoryWrapper.java
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* /opt/cola/permits/2178619203_1726024032.362123/0/netty-handler-4-1-110-final-sources-1-jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
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* /opt/cola/permits/2178619128_1726024014.0318182/0/netty-resolver-4-1-110-final-sources-1-jar/io/netty/resolver/DefaultNameResolver.java
* /opt/cola/permits/2178619128_1726024014.0318182/0/netty-resolver-4-1-110-final-sources-1-jar/io/netty/resolver/InetNameResolver.java
* /opt/cola/permits/2178619128_1726024014.0318182/0/netty-resolver-4-1-110-final-sources-1-jar/io/netty/resolver/DefaultAddressResolverGroup.java
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* /opt/cola/permits/2178619128_1726024014.0318182/0/netty-resolver-4-1-110-final-sources-1-jar/io/netty/resolver/AddressResolverGroup.java
*
 /opt/cola/permits/2178619128_1726024014.0318182/0/netty-resolver-4-1-110-final-sources-1-jar/io/netty/resolver/package-info.java
* /opt/cola/permits/2178619128_1726024014.0318182/0/netty-resolver-4-1-110-final-sources-1-jar/io/netty/resolver/NameResolver.java
* /opt/cola/permits/2178619128_1726024014.0318182/0/netty-resolver-4-1-110-final-sources-1-jar/io/netty/resolver/SimpleNameResolver.java
* /opt/cola/permits/2178619128_1726024014.0318182/0/netty-resolver-4-1-110-final-sources-1-jar/io/netty/resolver/NoopAddressResolver.java
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1.5019 netty-resolver-dns-native-macos 4.1.110.Final

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* /opt/cola/permits/2178619088_1726024015.7687843/0/netty-resolver-dns-native-macos-4-1-110-final-jar/META-INF/maven/io.netty/netty-resolver-dns-native-macos/pom.xml
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```
Manifest-Version: 1.0
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.resolver-dns-native-macos
Built-By: norman
Bnd-LastModified: 1716362142816
Specification-Title: Netty/Resolver/DNS/Native/MacOS
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Import-Package: sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;
version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="
[1,2)";resolution:=optional
Bundle-Name: Netty/Resolver/DNS/Native/MacOS
Build-Jdk-Spec: 1.8
```

Implementation-Title: Netty/Resolver/DNS/Native/MacOS
Bundle-Description: Netty is an asynchronous event-driven network appl
ication framework for rapid development of maintainable high perfo
rmance protocol servers and clients.
Automatic-Module-Name: io.netty.resolver.dns.macos.osx.aarch_64
Implementation-Version: 4.1.110.Final
Specification-Vendor: The Netty Project
Bundle-ManifestVersion:
 2
Bundle-Vendor: The Netty Project
Tool: Bnd-6.3.1.202206071316
Implementation-Vendor: The Netty Project
Bundle-Version: 4.1.110.Final
Created-By: Apache Maven Bundle Plugin 5.1.8
Build-Jdk: 1.8.0_402
Specification-Version: 4.1
Implementation-URL: https://netty.io/netty-resolver-dns-native-macos/

Found in path(s):
* /opt/cola/permits/2178619088_1726024015.7687843/0/netty-resolver-dns-native-macos-4-1-110-final-jar/META-INF/MANIFEST.MF

1.5020 netty-codec-http 4.1.110.Final

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* /opt/cola/permits/2178619053_1726023986.3476706/0/netty-codec-http-4-1-110-final-sources-1-jar/io/netty/handler/codec/http/HttpServerExpectContinueHandler.java
* /opt/cola/permits/2178619053_1726023986.3476706/0/netty-codec-http-4-1-110-final-sources-1-jar/io/netty/handler/codec/http/ReadOnlyHttpHeaders.java

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* /opt/cola/permits/2178619053_1726023986.3476706/0/netty-codec-http-4-1-110-final-sources-1-jar/io/netty/handler/codec/http/websocketx/WebSocket08FrameEncoder.java
* /opt/cola/permits/2178619053_1726023986.3476706/0/netty-codec-http-4-1-110-final-sources-1-jar/io/netty/handler/codec/http/websocketx/WebSocket07FrameEncoder.java
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* /opt/cola/permits/2178619053_1726023986.3476706/0/netty-codec-http-4-1-110-final-sources-1-jar/io/netty/handler/codec/http/TooLongHttpContentException.java
*
 /opt/cola/permits/2178619053_1726023986.3476706/0/netty-codec-http-4-1-110-final-sources-1-jar/io/netty/handler/codec/http/multipart/AbstractMixedHttpData.java
* /opt/cola/permits/2178619053_1726023986.3476706/0/netty-codec-http-4-1-110-final-sources-1-jar/io/netty/handler/codec/http/HttpHeaderValidationUtil.java
* /opt/cola/permits/2178619053_1726023986.3476706/0/netty-codec-http-4-1-110-final-sources-1-jar/io/netty/handler/codec/http/TooLongHttpHeaderException.java
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* /opt/cola/permits/2178619053_1726023986.3476706/0/netty-codec-http-4-1-110-final-sources-1-jar/io/netty/handler/codec/http/DefaultFullHttpRequest.java
* /opt/cola/permits/2178619053_1726023986.3476706/0/netty-codec-http-4-1-110-final-sources-1-jar/io/netty/handler/codec/http/ComposedLastHttpContent.java
* /opt/cola/permits/2178619053_1726023986.3476706/0/netty-codec-http-4-1-110-final-sources-1-jar/io/netty/handler/codec/http/FullHttpResponse.java
* /opt/cola/permits/2178619053_1726023986.3476706/0/netty-codec-http-4-1-110-final-sources-1-jar/io/netty/handler/codec/spdy/SpdyDataFrame.java
* /opt/cola/permits/2178619053_1726023986.3476706/0/netty-codec-http-4-1-110-final-sources-1-jar/io/netty/handler/codec/spdy/SpdySynReplyFrame.java

* /opt/cola/permits/2178619053_1726023986.3476706/0/netty-codec-http-4-1-110-final-sources-1-jar/io/netty/handler/codec/spdy/SpdyFrame.java
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* /opt/cola/permits/2178619053_1726023986.3476706/0/netty-codec-http-4-1-110-final-sources-1-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockJZlibEncoder.java
* /opt/cola/permits/2178619053_1726023986.3476706/0/netty-codec-http-4-1-110-final-sources-1-jar/io/netty/handler/codec/spdy/SpdyWindowUpdateFrame.java
* /opt/cola/permits/2178619053_1726023986.3476706/0/netty-codec-http-4-1-110-final-sources-1-jar/io/netty/handler/codec/http/websocketx/WebSocketProtocolHandler.java
* /opt/cola/permits/2178619053_1726023986.3476706/0/netty-codec-http-4-1-110-final-sources-1-jar/io/netty/handler/codec/spdy/SpdyHttpCodec.java
* /opt/cola/permits/2178619053_1726023986.3476706/0/netty-codec-http-4-1-110-final-sources-1-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockEncoder.java
* /opt/cola/permits/2178619053_1726023986.3476706/0/netty-codec-http-4-1-110-final-sources-1-jar/io/netty/handler/codec/spdy/DefaultSpdyGoAwayFrame.java
* /opt/cola/permits/2178619053_1726023986.3476706/0/netty-codec-http-4-1-110-final-sources-1-jar/io/netty/handler/codec/spdy/DefaultSpdyHeadersFrame.java
* /opt/cola/permits/2178619053_1726023986.3476706/0/netty-codec-http-4-1-110-final-sources-1-jar/io/netty/handler/codec/spdy/DefaultSpdySynStreamFrame.java
* /opt/cola/permits/2178619053_1726023986.3476706/0/netty-codec-http-4-1-110-final-sources-1-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockRawEncoder.java
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* /opt/cola/permits/2178619053_1726023986.3476706/0/netty-codec-http-4-1-110-final-sources-1-jar/io/netty/handler/codec/http/websocketx/WebSocketFrameDecoder.java
* /opt/cola/permits/2178619053_1726023986.3476706/0/netty-codec-http-4-1-110-final-sources-1-jar/io/netty/handler/codec/spdy/SpdyCodecUtil.java
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* /opt/cola/permits/2178619053_1726023986.3476706/0/netty-codec-http-4-1-110-final-sources-1-jar/io/netty/handler/codec/spdy/SpdyPingFrame.java
* /opt/cola/permits/2178619053_1726023986.3476706/0/netty-codec-http-4-1-110-final-sources-1-jar/io/netty/handler/codec/http/websocketx/WebSocketFrameAggregator.java
* /opt/cola/permits/2178619053_1726023986.3476706/0/netty-codec-http-4-1-110-final-sources-1-jar/io/netty/handler/codec/http/DefaultFullHttpResponse.java
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* /opt/cola/permits/2178619053_1726023986.3476706/0/netty-codec-http-4-1-110-final-sources-1-jar/io/netty/handler/codec/spdy/SpdyStreamFrame.java
* /opt/cola/permits/2178619053_1726023986.3476706/0/netty-codec-http-4-1-110-final-sources-1-

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 /opt/cola/permits/2178619053_1726023986.3476706/0/netty-codec-http-4-1-110-final-sources-1-jar/io/netty/handler/codec/spdy/DefaultSpdyPingFrame.java
* /opt/cola/permits/2178619053_1726023986.3476706/0/netty-codec-http-4-1-110-final-sources-1-jar/io/netty/handler/codec/spdy/SpdySessionHandler.java
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* /opt/cola/permits/2178619053_1726023986.3476706/0/netty-codec-http-4-1-110-final-sources-1-jar/io/netty/handler/codec/spdy/SpdyHeaders.java
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* /opt/cola/permits/2178619053_1726023986.3476706/0/netty-codec-http-4-1-110-final-sources-1-jar/io/netty/handler/codec/spdy/DefaultSpdySynReplyFrame.java
* /opt/cola/permits/2178619053_1726023986.3476706/0/netty-codec-http-4-1-110-final-sources-1-jar/io/netty/handler/codec/http/FullHttpMessage.java
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* /opt/cola/permits/2178619053_1726023986.3476706/0/netty-codec-http-4-1-110-final-sources-1-jar/io/netty/handler/codec/spdy/SpdyHeadersFrame.java
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* /opt/cola/permits/2178619053_1726023986.3476706/0/netty-codec-http-4-1-110-final-sources-1-jar/io/netty/handler/codec/spdy/SpdySessionStatus.java
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* /opt/cola/permits/2178619053_1726023986.3476706/0/netty-codec-http-4-1-110-final-sources-1-jar/io/netty/handler/codec/http/CompressionEncoderFactory.java
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* /opt/cola/permits/2178619053_1726023986.3476706/0/netty-codec-http-4-1-110-final-sources-1-jar/io/netty/handler/codec/http/HttpHeaderValues.java
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* /opt/cola/permits/2178619053_1726023986.3476706/0/netty-codec-http-4-1-110-final-sources-1-jar/io/netty/handler/codec/http/websocketx/WebSocket13FrameDecoder.java
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* /opt/cola/permits/2178619082_1726024001.3936703/0/netty-codec-socks-4-1-110-final-sources-1-jar/io/netty/handler/codec/socksx/SocksMessage.java
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* /opt/cola/permits/2178619082_1726024001.3936703/0/netty-codec-socks-4-1-110-final-sources-1-jar/io/netty/handler/codec/socks/SocksMessageEncoder.java
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* /opt/cola/permits/2178619146_1726023999.1983948/0/netty-codec-dns-4-1-110-final-sources-1-jar/io/netty/handler/codec/dns/AbstractDnsRecord.java
* /opt/cola/permits/2178619146_1726023999.1983948/0/netty-codec-dns-4-1-110-final-sources-1-jar/io/netty/handler/codec/dns/DnsMessage.java
* /opt/cola/permits/2178619146_1726023999.1983948/0/netty-codec-dns-4-1-110-final-sources-1-jar/io/netty/handler/codec/dns/DatagramDnsQuery.java
* /opt/cola/permits/2178619146_1726023999.1983948/0/netty-codec-dns-4-1-110-final-sources-1-jar/io/netty/handler/codec/dns/DefaultDnsQuestion.java
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* /opt/cola/permits/2178619146_1726023999.1983948/0/netty-codec-dns-4-1-110-final-sources-1-jar/io/netty/handler/codec/dns/TcpDnsQueryDecoder.java
* /opt/cola/permits/2178619146_1726023999.1983948/0/netty-codec-dns-4-1-110-final-sources-1-jar/io/netty/handler/codec/dns/TcpDnsResponseEncoder.java
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* /opt/cola/permits/2178619146_1726023999.1983948/0/netty-codec-dns-4-1-110-final-sources-1-jar/io/netty/handler/codec/dns/DnsQueryEncoder.java
*
 /opt/cola/permits/2178619146_1726023999.1983948/0/netty-codec-dns-4-1-110-final-sources-1-jar/io/netty/handler/codec/dns/DnsCodecUtil.java
* /opt/cola/permits/2178619146_1726023999.1983948/0/netty-codec-dns-4-1-110-final-sources-1-jar/io/netty/handler/codec/dns/TcpDnsResponseDecoder.java
* /opt/cola/permits/2178619146_1726023999.1983948/0/netty-codec-dns-4-1-110-final-sources-1-jar/io/netty/handler/codec/dns/DnsResponseDecoder.java
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* /opt/cola/permits/2178619146_1726023999.1983948/0/netty-codec-dns-4-1-110-final-sources-1-jar/io/netty/handler/codec/dns/DnsPtrRecord.java
* /opt/cola/permits/2178619146_1726023999.1983948/0/netty-codec-dns-4-1-110-final-sources-1-jar/io/netty/handler/codec/dns/DnsOptPseudoRecord.java
* /opt/cola/permits/2178619146_1726023999.1983948/0/netty-codec-dns-4-1-110-final-sources-1-jar/io/netty/handler/codec/dns/DefaultDnsOptEcsRecord.java
* /opt/cola/permits/2178619146_1726023999.1983948/0/netty-codec-dns-4-1-110-final-sources-1-jar/io/netty/handler/codec/dns/DnsOptEcsRecord.java
* /opt/cola/permits/2178619146_1726023999.1983948/0/netty-codec-dns-4-1-110-final-sources-1-jar/io/netty/handler/codec/dns/AbstractDnsOptPseudoRrRecord.java
* /opt/cola/permits/2178619146_1726023999.1983948/0/netty-codec-dns-4-1-110-final-sources-1-jar/io/netty/handler/codec/dns/DefaultDnsPtrRecord.java
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1.5023 netty-handler-proxy 4.1.110.Final

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* /opt/cola/permits/2178619197_1726024045.1436749/0/netty-handler-proxy-4-1-110-final-sources-1-jar/io/netty/handler/proxy/Socks5ProxyHandler.java
* /opt/cola/permits/2178619197_1726024045.1436749/0/netty-handler-proxy-4-1-110-final-sources-1-jar/io/netty/handler/proxy/ProxyConnectException.java
* /opt/cola/permits/2178619197_1726024045.1436749/0/netty-handler-proxy-4-1-110-final-sources-1-jar/io/netty/handler/proxy/HttpProxyHandler.java
* /opt/cola/permits/2178619197_1726024045.1436749/0/netty-handler-proxy-4-1-110-final-sources-1-jar/io/netty/handler/proxy/Socks4ProxyHandler.java
* /opt/cola/permits/2178619197_1726024045.1436749/0/netty-handler-proxy-4-1-110-final-sources-1-jar/io/netty/handler/proxy/package-info.java
* /opt/cola/permits/2178619197_1726024045.1436749/0/netty-handler-proxy-4-1-110-final-sources-1-jar/io/netty/handler/proxy/ProxyConnectionEvent.java

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1.5024 netty-codec 4.1.110.Final

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*/
/*
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*/
/**
* Enumeration of supported Base64 dialects.
* <p>
* The internal lookup tables in this class has been derived from
* Robert
 Harder's Public Domain
* Base64 Encoder/Decoder.
*/

Found in path(s):
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/base64/Base64Dialect.java
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*/
/**
* A decoder that splits the received {@link ByteBuf}s dynamically by the
* value of the length field in the message.  It is particularly useful when you
* decode a binary message which has an integer header field that represents the
* length of the message body or the whole message.
*
 <p>
* {@link LengthFieldBasedFrameDecoder} has many configuration parameters so
* that it can decode any message with a length field, which is often seen in
* proprietary client-server protocols. Here are some example that will give
* you the basic idea on which option does what.
*
* <h3>2 bytes length field at offset 0, do not strip header</h3>
*
* The value of the length field in this example is <tt>12 (0x0C)</tt> which
* represents the length of "HELLO, WORLD".  By default, the decoder assumes
* that the length field represents the number of the bytes that follows the
* length field.  Therefore, it can be decoded with the simplistic parameter
* combination.
* <pre>
* <b>lengthFieldOffset</b>   = <b>0</b>
* <b>lengthFieldLength</b>   = <b>2</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0 (= do not strip header)
*
* BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
```

```
* | Length | Actual Content
 |----->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 0, strip header</h3>
*
* Because we can get the length of the content by calling
* {@link ByteBuf#readableBytes()}, you might want to strip the length
* field by specifying <tt>initialBytesToStrip</tt>.  In this example, we
* specified <tt>2</tt>, that is same with the length of the length field, to
* strip the first two bytes.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* lengthAdjustment    = 0
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
*
* BEFORE DECODE (14 bytes)         AFTER DECODE (12 bytes)
* +--------+----------------+      +----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +----------------+
 * </pre>
*
* <h3>2 bytes length field at offset 0, do not strip header, the length field
*     represents the length of the whole message</h3>
*
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples.  However, in some protocols, the
* length field represents the length of the whole message, including the
* message header.  In such a case, we specify a non-zero
* <tt>lengthAdjustment</tt>.  Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
* as <tt>lengthAdjustment</tt> for compensation.
* <pre>
* lengthFieldOffset   =  0
* lengthFieldLength   =  2
* <b>lengthAdjustment</b>    = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip =  0
*
* BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual
 Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
```

```
* </pre>
*
* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>
*
* The following message is a simple variation of the first example.  An extra
* header value is prepended to the message.  <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* <b>lengthFieldOffset</b>   = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b>   = <b>3</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)                    AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* |  0xCAFE  | 0x00000C | "HELLO, WORLD" |
 |  0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
*
* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
*
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body.  You have to specify a
* positive <tt>lengthAdjustment</tt> so that the decoder counts the extra
* header into the frame length calculation.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 3
* <b>lengthAdjustment</b>    = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)                    AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* |  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
* | 0x00000C |  0xCAFE  | "HELLO, WORLD" |      | 0x00000C |  0xCAFE  | "HELLO,
 WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
*     strip the first header field and the length field</h3>
*
* This is a combination of all the examples above.  There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
```

```
* header affects the <tt>lengthAdjustment</tt>.  We also specified a non-zero
* <tt>initialBytesToStrip</tt> to strip the length field and the prepended
* header from the frame.  If you don't want to strip the prepended header, you
* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.
* <pre>
* lengthFieldOffset   = 1 (= the length of HDR1)
* lengthFieldLength   = 2
* <b>lengthAdjustment</b>    = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 +
 LEN)
*
* BEFORE DECODE (16 bytes)                    AFTER DECODE (13 bytes)
* +------+--------+------+----------------+      +------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +------+--------+------+----------------+      +------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
*     strip the first header field and the length field, the length field
*     represents the length of the whole message</h3>
*
* Let's give another twist to the previous example.  The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
* Please note that we don't need to take the length of HDR2 into account
* because
 the length field already includes the whole header length.
* <pre>
* lengthFieldOffset   =  1
* lengthFieldLength   =  2
* <b>lengthAdjustment</b>    = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b> 3</b>
*
* BEFORE DECODE (16 bytes)                    AFTER DECODE (13 bytes)
* +------+--------+------+----------------+      +------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +------+--------+------+----------------+      +------+----------------+
* </pre>
* @see LengthFieldPrepender
*/
```

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* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java

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* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/ProtocolDetectionResult.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/UnsupportedValueConverter.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/HeadersUtils.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/ProtocolDetectionState.java

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* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/DefaultHeadersImpl.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/CharSequenceValueConverter.java
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* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/compression/JdkZlibDecoder.java
*
 /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/xml/XmlFrameDecoder.java
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* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
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 /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/compression/FastLz.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2Decoder.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2Constants.java
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* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/compression/Lz4Constants.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/AsciiHeadersEncoder.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/DecoderResultProvider.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/json/JsonObjectDecoder.java
*
 /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2Rand.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2BitWriter.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/compression/LzfEncoder.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/compression/LzfDecoder.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
*

/opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/MessageAggregationException.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2BitReader.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2Encoder.java
*
/opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/json/package-info.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/compression/Crc32.java
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*/
/**
* Utility class for {@link ByteBuf} that encodes and decodes to and from
* <a href="https://en.wikipedia.org/wiki/Base64">Base64</a> notation.
* <p>
 * The encoding and decoding algorithm in this class has been derived from
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
* Base64 Encoder/Decoder</a>.
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* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/compression/BrotliEncoder.java
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/opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/compression/CompressionOptions.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/compression/DeflateOptions.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/compression/Zstd.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/compression/ZstdConstants.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/compression/StandardCompressionOptions.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/compression/ZstdEncoder.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/compression/BrotliOptions.java
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/opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/compression/GzipOptions.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/compression/ZstdOptions.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/compression/Brotli.java
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* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/Headers.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/DefaultHeaders.java
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* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/compression/EncoderUtil.java
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* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/TooLongFrameException.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/base64/package-info.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-

jar/io/netty/handler/codec/marshalling/ChannelBufferByteInput.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/serialization/CompactObjectInputStream.java
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* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/compression/JZlibDecoder.java
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* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/compression/JdkZlibEncoder.java
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* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/ReplayingDecoder.java
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/opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/serialization/ObjectDecoderInputStream.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/compression/ZlibEncoder.java
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* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/compression/ZlibWrapper.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/serialization/package-info.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/MessageToByteEncoder.java
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*
/opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/serialization/WeakReferenceMap.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/string/StringDecoder.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/serialization/ObjectEncoder.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/LengthFieldPrepender.java
*
/opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/package-info.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/string/StringEncoder.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/compression/ZlibDecoder.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java
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* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/compression/Snappy.java
*
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* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/string/package-info.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/marshalling/DefaultUnmarshallerProvider.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/serialization/ClassResolvers.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/marshalling/package-info.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/base64/Base64Decoder.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java
*

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*
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* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/compression/CompressionUtil.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/DateFormatter.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/string/LineEncoder.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/DatagramPacketEncoder.java
* /opt/cola/permits/2178618989_1726023989.2577255/0/netty-codec-4-1-110-final-sources-1-jar/io/netty/handler/codec/string/LineSeparator.java

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* /opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/channel/SimpleUserEventChannelHandler.java
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* /opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/channel/ChannelFactory.java
*
 /opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/channel/ReflectiveChannelFactory.java
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* /opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/bootstrap/FailedChannel.java
* /opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/channel/internal/ChannelUtils.java
* /opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java
* /opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/channel/DelegatingChannelPromiseNotifier.java
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* /opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/bootstrap/ChannelFactory.java
* /opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java
* /opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/channel/group/ChannelMatcher.java
* /opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/channel/socket/oio/OioSocketChannelConfig.java
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/opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/channel/DefaultChannelId.java
* /opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/channel/SimpleChannelInboundHandler.java
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* /opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/channel/socket/nio/NioDomainSocketChannel.java
*
/opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/channel/socket/nio/NioServerDomainSocketChannel.java
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* /opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/channel/WriteBufferWaterMark.java
* /opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/bootstrap/BootstrapConfig.java
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 /opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/channel/SelectStrategy.java
* /opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/bootstrap/ServerBootstrapConfig.java
* /opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/channel/ChannelInboundInvoker.java
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* /opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/channel/socket/oio/OioServerSocketChannel.java
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* /opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/channel/EventLoop.java
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/opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/channel/ChannelPipelineException.java
* /opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/channel/local/package-info.java
* /opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/channel/ChannelInitializer.java
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* /opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/channel/socket/nio/NioSocketChannel.java
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* /opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/channel/FailedChannelFuture.java
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/opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/channel/embedded/EmbeddedChannel.java
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* /opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/channel/socket/DefaultDatagramChannelConfig.java
* /opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/channel/ChannelOption.java
* /opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/channel/ChannelFutureListener.java
* /opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/channel/DefaultFileRegion.java
* /opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/channel/socket/DatagramPacket.java
* /opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/channel/socket/oio/OioSocketChannel.java
* /opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/channel/socket/nio/NioDatagramChannel.java
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* /opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/channel/ChannelConfig.java
* /opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/channel/socket/DatagramChannel.java
* /opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/channel/embedded/package-info.java
* /opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/channel/oio/AbstractOioChannel.java
* /opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/channel/ServerChannel.java
* /opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/channel/EventLoopGroup.java
* /opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/channel/socket/SocketChannelConfig.java
* /opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/channel/socket/nio/ProtocolFamilyConverter.java
* /opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/channel/socket/nio/package-info.java
* /opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/channel/ThreadPerChannelEventLoop.java
* /opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-

jar/io/netty/channel/AbstractServerChannel.java
* /opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/channel/MultithreadEventLoopGroup.java
* /opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/channel/local/LocalServerChannel.java
*
/opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/channel/nio/AbstractNioMessageChannel.java
* /opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/channel/ChannelException.java
* /opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/channel/group/DefaultChannelGroupFuture.java
* /opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/channel/socket/oio/OioDatagramChannel.java
* /opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/channel/FixedRecvByteBufAllocator.java
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*/
/**
* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
* its {@link ChannelPipeline}.
*
* <h3>Sub-types</h3>
*
* {@link ChannelHandler} itself does not provide many methods, but you usually have to implement one of its subtypes:
*
* {@link
 ChannelInboundHandler} to handle inbound I/O events, and
* {@link ChannelOutboundHandler} to handle outbound I/O operations.
*
*
*
* Alternatively, the following adapter classes are provided for your convenience:
*
* {@link ChannelInboundHandlerAdapter} to handle inbound I/O events,
* {@link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and
* {@link ChannelDuplexHandler} to handle both inbound and outbound events
*

```
* </p>
* <p>
* For more information, please refer to the documentation of each subtype.
* </p>
*
* <h3>The context object</h3>
* <p>
* A {@link ChannelHandler} is provided with a {@link ChannelHandlerContext}
* object.  A {@link ChannelHandler} is supposed to interact with the
* {@link ChannelPipeline} it belongs to via a context object.  Using the
* context object, the {@link ChannelHandler} can pass events upstream or
* downstream, modify the pipeline dynamically,
 or store the information
* (using {@link AttributeKey}s) which is specific to the handler.
*
* <h3>State management</h3>
*
* A {@link ChannelHandler} often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* <pre>
* public interface Message {
*     // your methods here
* }
*
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message&gt; {
*
*     <b>private boolean loggedIn;</b>
*
*     {@code @Override}
*     public void channelRead0({@link ChannelHandlerContext} ctx, Message message) {
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) message);
*             <b>loggedIn = true;</b>
*         } else (message instanceof GetDataMessage) {
*             if (<b>loggedIn</b>) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*             } else {
*                 fail();
*             }
*
 }
*     }
*     ...
* }
* </pre>
* Because the handler instance has a state variable which is dedicated to
* one connection, you have to create a new handler instance for each new
* channel to avoid a race condition where an unauthenticated client can get
```

```
* the confidential information:
* <pre>
* // Create a new handler instance per channel.
* // See {@link ChannelInitializer#initChannel(Channel)}.
* public class DataServerInitializer extends {@link ChannelInitializer}&lt;{@link Channel}&gt; {
*     {@code @Override}
*     public void initChannel({@link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
*     }
* }
*
* </pre>
*
* <h4>Using {@link AttributeKey}s</h4>
*
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use {@link AttributeKey}s which is provided by
* {@link ChannelHandlerContext}:
 * <pre>
* public interface Message {
*     // your methods here
* }
*
* {@code @Sharable}
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message&gt; {
*     private final {@link AttributeKey}&lt;{@link Boolean}&gt; auth =
*         {@link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
*
*     {@code @Override}
*     public void channelRead({@link ChannelHandlerContext} ctx, Message message) {
*         {@link Attribute}&lt;{@link Boolean}&gt; attr = ctx.attr(auth);
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) o);
*             <b>attr.set(true)</b>;
*         } else (message instanceof GetDataMessage) {
*             if (<b>Boolean.TRUE.equals(attr.get())</b>) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*             } else {
*                 fail();
*             }
*         }
*     }
*     ...
* }
* </pre>
* Now that the
```

```
 state of the handler is attached to the {@link ChannelHandlerContext}, you can add the
* same handler instance to different pipelines:
* <pre>
* public class DataServerInitializer extends {@link ChannelInitializer}&lt;{@link Channel}&gt; {
*
*     private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
*
*     {@code @Override}
*     public void initChannel({@link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>SHARED</b>);
*     }
* }
* </pre>
*
*
* <h4>The {@code @Sharable} annotation</h4>
* <p>
* In the example above which used an {@link AttributeKey},
* you might have noticed the {@code @Sharable} annotation.
* <p>
* If a {@link ChannelHandler} is annotated with the {@code @Sharable}
* annotation, it means you can create an instance of the handler just once and
* add it to one or more {@link ChannelPipeline}s multiple times without
* a race condition.
* <p>
* If this annotation is not specified, you have to create
 a new handler
* instance every time you add it to a pipeline because it has unshared state
* such as member variables.
* <p>
* This annotation is provided for documentation purpose, just like
* <a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.
*
* <h3>Additional resources worth reading</h3>
* <p>
* Please refer to the {@link ChannelHandler}, and
* {@link ChannelPipeline} to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a  pipeline,  and how to handle
* the operation in your application.
*/
```

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* /opt/cola/permits/2178619059_1726024038.60047/0/netty-transport-4-1-110-final-sources-1-jar/io/netty/channel/ChannelHandler.java

1.5026 netty-transport-classes-epoll 4.1.110.Final

1.5026.1 Available under license :

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* /opt/cola/permits/2178619001_1726024047.0492232/0/netty-transport-classes-epoll-4-1-110-final-sources-1-jar/io/netty/channel/epoll/NativeStaticallyReferencedJniMethods.java
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*/
/**
    * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
    * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
    * Allowing them being read would mean anyone with access to the channel could get them.

   */
/**
    * Set the {@code TCP_QUICKACK} option on the socket.
    * See <a href="https://linux.die.net//man/7/tcp">TCP_QUICKACK</a>
    * for more details.
    */
```

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* /opt/cola/permits/2178619001_1726024047.0492232/0/netty-transport-classes-epoll-4-1-110-final-sources-1-jar/io/netty/channel/epoll/AbstractEpollStreamChannel.java
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* /opt/cola/permits/2178619001_1726024047.0492232/0/netty-transport-classes-epoll-4-1-110-final-sources-1-jar/io/netty/channel/epoll/EpollMode.java
* /opt/cola/permits/2178619001_1726024047.0492232/0/netty-transport-classes-epoll-4-1-110-final-sources-1-jar/io/netty/channel/epoll/EpollServerDomainSocketChannel.java
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* /opt/cola/permits/2178619001_1726024047.0492232/0/netty-transport-classes-epoll-4-1-110-final-sources-1-jar/io/netty/channel/epoll/TcpMd5Util.java
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/**
    * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
    * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
    * Allowing them being read would mean anyone with access to the channel could get them.

   */
```

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* /opt/cola/permits/2178619001_1726024047.0492232/0/netty-transport-classes-epoll-4-1-110-final-sources-1-jar/io/netty/channel/epoll/EpollEventLoopGroup.java
* /opt/cola/permits/2178619001_1726024047.0492232/0/netty-transport-classes-epoll-4-1-110-final-sources-1-jar/io/netty/channel/epoll/EpollChannelOption.java
* /opt/cola/permits/2178619001_1726024047.0492232/0/netty-transport-classes-epoll-4-1-110-final-sources-1-jar/io/netty/channel/epoll/Epoll.java
* /opt/cola/permits/2178619001_1726024047.0492232/0/netty-transport-classes-epoll-4-1-110-final-sources-1-jar/io/netty/channel/epoll/package-info.java
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*
 /opt/cola/permits/2178619001_1726024047.0492232/0/netty-transport-classes-epoll-4-1-110-final-sources-1-jar/io/netty/channel/epoll/AbstractEpollChannel.java
* /opt/cola/permits/2178619001_1726024047.0492232/0/netty-transport-classes-epoll-4-1-110-final-sources-1-jar/io/netty/channel/epoll/NativeDatagramPacketArray.java
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*
 /opt/cola/permits/2178619001_1726024047.0492232/0/netty-transport-classes-epoll-4-1-110-final-sources-1-jar/io/netty/channel/epoll/EpollDomainDatagramChannel.java
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Found in path(s):
* /opt/cola/permits/2178619001_1726024047.0492232/0/netty-transport-classes-epoll-4-1-110-final-sources-1-jar/META-INF/native-image/io.netty/netty-transport-classes-epoll/native-image.properties

1.5027 netty-transport-native-epoll 4.1.110.Final

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Found in path(s):
* /opt/cola/permits/2178619029_1726023978.5907562/0/netty-transport-native-epoll-4-1-110-final-sources-1-jar/netty_epoll_native.c
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Found in path(s):
* /opt/cola/permits/2178619029_1726023978.5907562/0/netty-transport-native-epoll-4-1-110-final-sources-1-jar/netty_epoll_vmsocket.h
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Found in path(s):
* /opt/cola/permits/2178619029_1726023978.5907562/0/netty-transport-native-epoll-4-1-110-final-sources-1-jar/META-INF/maven/io.netty/netty-transport-native-epoll/pom.xml
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Found in path(s):
* /opt/cola/permits/2178619029_1726023978.5907562/0/netty-transport-native-epoll-4-1-110-final-sources-1-jar/netty_epoll_linuxsocket.h
* /opt/cola/permits/2178619029_1726023978.5907562/0/netty-transport-native-epoll-4-1-110-final-sources-1-jar/netty_epoll_linuxsocket.c

1.5028 netty-resolver-dns-classes-macos 4.1.110.Final

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Found in path(s):
* /opt/cola/permits/2178619071_1726023997.279176/0/netty-resolver-dns-classes-macos-4-1-110-final-sources-1-jar/io/netty/resolver/dns/macos/MacOSDnsServerAddressStreamProvider.java
* /opt/cola/permits/2178619071_1726023997.279176/0/netty-resolver-dns-classes-macos-4-1-110-final-sources-1-jar/io/netty/resolver/dns/macos/package-info.java
* /opt/cola/permits/2178619071_1726023997.279176/0/netty-resolver-dns-classes-macos-4-1-110-final-sources-1-jar/io/netty/resolver/dns/macos/DnsResolver.java
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-->

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* /opt/cola/permits/2178619071_1726023997.279176/0/netty-resolver-dns-classes-macos-4-1-110-final-sources-1-jar/META-INF/maven/io.netty/netty-resolver-dns-classes-macos/pom.xml

1.5029 netty 4.1.110.Final

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Found in path(s):
* /opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/io/netty/util/internal/ClassInitializerUtil.java
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Found in path(s):
* /opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/io/netty/util/AsciiStringUtil.java
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* /opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/META-INF/maven/io.netty/netty-common/pom.xml
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io.netty.util.internal.Hidden$NettyBlockHoundIntegration

Found in path(s):
* /opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/META-INF/services/reactor.blockhound.integration.BlockHoundIntegration
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* /opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/io/netty/util/internal/ResourcesUtil.java
* /opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/io/netty/util/ByteProcessorUtils.java
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* /opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/io/netty/util/internal/InternalThreadLocalMap.java
* /opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-

jar/io/netty/util/DomainNameMapping.java
*
/opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/io/netty/util/internal/UnpaddedInternalThreadLocalMap.java
* /opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/io/netty/util/concurrent/FastThreadLocal.java
* /opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/io/netty/util/AsciiString.java
* /opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/io/netty/util/ResourceLeakHint.java
* /opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/io/netty/util/concurrent/PromiseNotifier.java
* /opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/io/netty/util/Mapping.java
* /opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/io/netty/util/ThreadDeathWatcher.java
* /opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/io/netty/util/internal/NativeLibraryLoader.java
*
/opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/io/netty/util/concurrent/PromiseAggregator.java
* /opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/io/netty/util/internal/IntegerHolder.java
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* /opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/io/netty/util/UncheckedBooleanSupplier.java
* /opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/io/netty/util/NettyRuntime.java
* /opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/io/netty/util/internal/logging/LocationAwareSlf4JLogger.java
* /opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/io/netty/util/internal/PriorityQueue.java
* /opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/io/netty/util/internal/EmptyPriorityQueue.java
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* /opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/io/netty/util/SuppressForbidden.java
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* /opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/io/netty/util/collection/LongCollections.java
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</distributionManagement>

<url>https://github.com/JCTools</url>
<inceptionYear>2013</inceptionYear>
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 </license>
</licenses>

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 <connection>scm:git:https://github.com/JCTools/JCTools</connection>
 <tag>HEAD</tag>
</scm>

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 </developer>
 <developer>
  <url>https://github.com/mjpt777</url>
 </developer>
 <developer>
  <url>https://github.com/RichardWarburton</url>
 </developer>
 <developer>
  <url>https://github.com/kay</url>
 </developer>
 <developer>
  <url>https://github.com/franz1981</url>
 </developer>
</developers>

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</prerequisites>

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 <java.test.version>1.8</java.test.version>

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 <maven.compiler.target>${java.version}</maven.compiler.target>
 <maven.compiler.testSource>${java.test.version}</maven.compiler.testSource>
 <maven.compiler.testTarget>${java.test.version}</maven.compiler.testTarget>

 <hamcrest.version>1.3</hamcrest.version>
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  <guava-testlib.version>21.0</guava-testlib.version>
 </properties>
</project>
```

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 in path(s):
* /opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/META-INF/maven/org.jctools/jctools-core/pom.xml
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* /opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/io/netty/util/internal/LongCounter.java
*
 /opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/io/netty/util/concurrent/AbstractScheduledEventExecutor.java
* /opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/io/netty/util/internal/DefaultPriorityQueue.java
* /opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/io/netty/util/internal/PriorityQueueNode.java
* /opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/io/netty/util/AsyncMapping.java
* /opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/io/netty/util/DomainMappingBuilder.java
* /opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/io/netty/util/HashingStrategy.java
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* /opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/io/netty/util/internal/ThreadExecutorMap.java
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 /opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/io/netty/util/internal/ObjectPool.java
* /opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/io/netty/util/internal/svm/PlatformDependentSubstitution.java
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* /opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/io/netty/util/internal/svm/PlatformDependent0Substitution.java
* /opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/io/netty/util/internal/ReferenceCountUpdater.java
* /opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/io/netty/util/internal/svm/CleanerJava6Substitution.java
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/opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/io/netty/util/internal/logging/JdkLogger.java
* /opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/io/netty/util/internal/logging/CommonsLogger.java
* /opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/io/netty/util/internal/logging/Log4JLogger.java
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* /opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/io/netty/util/NetUtilInitializations.java
* /opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/io/netty/util/NetUtilSubstitutions.java
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* /opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/io/netty/util/internal/EmptyArrays.java
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* /opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/io/netty/util/internal/NoOpTypeParameterMatcher.java
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* /opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/io/netty/util/internal/SocketUtils.java
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* /opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/io/netty/util/concurrent/NonStickyEventExecutorGroup.java
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* /opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/io/netty/util/concurrent/GlobalEventExecutor.java
* /opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/io/netty/util/Attribute.java
* /opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/io/netty/util/internal/logging/Slf4JLoggerFactory.java
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* /opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/META-INF/native-image/io.netty/netty-common/native-image.properties
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* /opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/io/netty/util/internal/Cleaner.java
* /opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/io/netty/util/internal/CleanerJava9.java
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* /opt/cola/permits/2178619134_1726024043.3036153/0/netty-common-4-1-110-final-sources-1-jar/io/netty/util/internal/ThreadLocalRandom.java

1.5030 mfridman-interpolate 0.0.2

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1.5031 jaeger 1.28.0

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1.5032 bcpkix-fips 2.0.7

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```
/**
 * Base constructor.
 * <p>
 * The authorizer attempts to perform matching (including the use of the wildcard) in accordance with RFC 6125.
 * </p>
 * <p>
 * Known suffixes is a list of public domain suffixes that can't be used as wild cards for
 * example *.com, or c*c.com, as a dns wildcard could match every/most .com domains if a registrar were issue it.
 * If *.com is in the known suffixes list will not be allowed to match.
 * </p>
 *
 * @param knownSuffixes a set of suffixes that cannot be wild-carded, e.g. { ".com", ".net", ".org" }
 */
```

Found in path(s):
* /opt/cola/permits/2178985490_1726045910.5549347/0/bcpkix-fips-2-0-7-sources-jar/org/bouncycastle/est/jcajce/JsseDefaultHostnameAuthorizer.java

1.5033 log4j-api 2.24.0

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1.5034 apache-log4j 2.24.0

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1.5036 openssl 1.1.1za

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1.5043 kafka-clients 3.7.1

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```
/**
 * Base constructor.
 * <p>
 * The authorizer attempts to perform matching (including the use of the wildcard) in accordance with RFC 6125.
 * </p>
 * <p>
 * Known suffixes is a list of public domain suffixes that can't be used as wild cards for
 * example *.com, or c*c.com, as a dns wildcard could match every/most .com domains if a registrar were issue it.
 * If *.com is in the known suffixes list will not be allowed to match.
 * </p>
```

```
 *
 * @param knownSuffixes a set of suffixes that cannot be wild-carded, e.g. { ".com", ".net", ".org" }
 */
```

Found in path(s):
* /opt/cola/permits/2182570960_1726287980.8040605/0/bcpkix-jdk18on-1-78-1-sources-1-jar/org/bouncycastle/est/jcajce/JsseDefaultHostnameAuthorizer.java

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```
/**
* Poly1305 message authentication code, designed by D. J. Bernstein.
* <p>
* Poly1305 computes a 128-bit (16 bytes) authenticator, using a 128 bit nonce and a 256 bit key
* consisting of a 128 bit key applied to an underlying cipher, and a 128 bit key (with 106
* effective key bits) used in the authenticator.
* <p>
* The polynomial calculation in this implementation is adapted from the public domain <a
* href="https://github.com/floodyberry/poly1305-donna">poly1305-donna-unrolled</a> C implementation
* by Andrew M (@floodyberry).
* @see Poly1305KeyGenerator
*/
```

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* /opt/cola/permits/2182570968_1726287983.1552067/0/bcprov-jdk18on-1-78-1-sources-1-jar/org/bouncycastle/crypto/macs/Poly1305.java
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```
/**
* An implementation of <a href="https://tools.ietf.org/html/rfc7253">RFC 7253 on The OCB
* Authenticated-Encryption Algorithm</a>. For those still concerned about the original patents
* around this, please see:
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* /opt/cola/permits/2182570968_1726287983.1552067/0/bcprov-jdk18on-1-78-1-sources-1-jar/org/bouncycastle/crypto/modes/OCBBlockCipher.java
No license file was found, but licenses were detected in source scan.

/**
* SPHINCS-256 signer.
*
* This implementation is heavily based on the reference implementation in SUPERCOP, the main difference being the digests used
* for message hashing and tree construction are now configurable (within limits...) and that the implementation produces
* detached signatures.
*
*
* The SPHINCS reference implementation is public domain, as per the statement in the second last paragraph of
* section 1 in https://eprint.iacr.org/2014/795.pdf
*
*/

Found in path(s):
* /opt/cola/permits/2182570968_1726287983.1552067/0/bcprov-jdk18on-1-78-1-sources-1-jar/org/bouncycastle/pqc/crypto/sphincs/SPHINCS256Signer.java
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public DomainParameters(BigInteger p, BigInteger g, BigInteger q, BigInteger j,

Found in path(s):
* /opt/cola/permits/2182570968_1726287983.1552067/0/bcprov-jdk18on-1-78-1-sources-1-jar/org/bouncycastle/asn1/x9/DomainParameters.java
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/**
* The NTRU algorithm based on the round 3 submission of the NIST post-quantum cryptography. For the old NTRU, see
* {@link org.bouncycastle.pqc.legacy.crypto.ntru}.
*
*
* This implementation is based on the C reference implementation submitted for the round 3 NIST PQC

competition,
* released under CC0-1.0 license.
*
*
* NIST submission files
* License of reference implementation
*
* @see NIST round 3 PQC submissions page
* @see NTRU website
* @see NTRU specification
*/

Found in path(s):
* /opt/cola/permits/2182570968_1726287983.1552067/0/bcprov-jdk18on-1-78-1-sources-1-jar/org/bouncycastle/pqc/crypto/ntru/package-info.java
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// now keep space is free to use

Found in path(s):
* /opt/cola/permits/2182570968_1726287983.1552067/0/bcprov-jdk18on-1-78-1-sources-1-jar/org/bouncycastle/pqc/legacy/crypto/gmss/GMSSPrivateKeyParameters.java
No license file was found, but licenses were detected in source scan.

/**
* Contains the polynomial classes used in the NTRU round 3 algorithm.
*
*
* This implementation is based on the C reference implementation submitted for the round 3 NIST PQC competition,
* released under CC0-1.0 license.
*
*
* NIST submission files
* License of reference implementation
*/

Found in path(s):
* /opt/cola/permits/2182570968_1726287983.1552067/0/bcprov-jdk18on-1-78-1-sources-1-jar/org/bouncycastle/pqc/math/ntru/package-info.java
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/**

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/**
 * Magic value for proprietary OpenSSH private key.
 **/

Found in path(s):
* /opt/cola/permits/2182570968_1726287983.1552067/0/bcprov-jdk18on-1-78-1-sources-1-jar/org/bouncycastle/crypto/util/OpenSSHPrivateKeyUtil.java

1.5062 reactor-netty-http 1.1.19

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1.5064 reactor-core 3.6.6

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reactor.core.scheduler.ReactorBlockHoundIntegration

Found in path(s):
* /opt/cola/permits/2182603456_1726302631.1970801/0/reactor-core-3-6-6-jar/META-INF/services/reactor.blockhound.integration.BlockHoundIntegration

1.5065 grpc-go 1.61.0

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1.5068 nashorn-core 15.4

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1.5077 reactor-core 3.5.11

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reactor.core.scheduler.ReactorBlockHoundIntegration

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* /opt/cola/permits/2182885189_1726321459.9511838/0/reactor-core-3-5-11-1-jar/META-INF/services/reactor.blockhound.integration.BlockHoundIntegration

1.5078 grpc-go 1.61.1

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1.5079 spring-web-mvc 5.3.39

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* /opt/cola/permits/2183411231_1726379013.276029/0/h2-2-2-224-sources-4-jar/org/h2/expression/condition/ConditionInArray.java
* /opt/cola/permits/2183411231_1726379013.276029/0/h2-2-2-224-sources-4-jar/org/h2/jdbc/JdbcSQLIntegrityConstraintViolationException.java
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* /opt/cola/permits/2183411231_1726379013.276029/0/h2-2-2-224-sources-4-jar/org/h2/security/auth/impl/JaasCredentialsValidator.java
* /opt/cola/permits/2183411231_1726379013.276029/0/h2-2-2-224-sources-4-jar/org/h2/api/UserToRolesMapper.java
* /opt/cola/permits/2183411231_1726379013.276029/0/h2-2-2-224-sources-4-jar/org/h2/api/CredentialsValidator.java
* /opt/cola/permits/2183411231_1726379013.276029/0/h2-2-2-224-sources-4-jar/org/h2/security/auth/UserToRolesMapperConfig.java
* /opt/cola/permits/2183411231_1726379013.276029/0/h2-2-2-224-sources-4-jar/org/h2/security/auth/HasConfigProperties.java
* /opt/cola/permits/2183411231_1726379013.276029/0/h2-2-2-224-sources-4-jar/org/h2/security/auth/RealmConfig.java
* /opt/cola/permits/2183411231_1726379013.276029/0/h2-2-2-224-sources-4-jar/org/h2/security/auth/Configurable.java
*
 /opt/cola/permits/2183411231_1726379013.276029/0/h2-2-2-224-sources-4-jar/org/h2/security/auth/AuthenticationInfo.java
* /opt/cola/permits/2183411231_1726379013.276029/0/h2-2-2-224-sources-4-jar/org/h2/security/auth/H2AuthConfig.java
* /opt/cola/permits/2183411231_1726379013.276029/0/h2-2-2-224-sources-4-jar/org/h2/security/auth/Authenticator.java
* /opt/cola/permits/2183411231_1726379013.276029/0/h2-2-2-224-sources-4-jar/org/h2/security/auth/DefaultAuthenticator.java
* /opt/cola/permits/2183411231_1726379013.276029/0/h2-2-2-224-sources-4-jar/org/h2/security/auth/AuthenticatorFactory.java
* /opt/cola/permits/2183411231_1726379013.276029/0/h2-2-2-224-sources-4-jar/org/h2/security/auth/AuthenticationException.java
* /opt/cola/permits/2183411231_1726379013.276029/0/h2-2-2-224-sources-4-jar/org/h2/security/auth/impl/LdapCredentialsValidator.java
* /opt/cola/permits/2183411231_1726379013.276029/0/h2-2-2-224-sources-4-jar/org/h2/security/auth/AuthConfigException.java
*

/opt/cola/permits/2183411231_1726379013.276029/0/h2-2-2-224-sources-4-jar/org/h2/security/auth/impl/StaticRolesMapper.java
* /opt/cola/permits/2183411231_1726379013.276029/0/h2-2-2-224-sources-4-jar/org/h2/security/auth/impl/AssignRealmNameRole.java
* /opt/cola/permits/2183411231_1726379013.276029/0/h2-2-2-224-sources-4-jar/org/h2/security/auth/PropertyConfig.java
* /opt/cola/permits/2183411231_1726379013.276029/0/h2-2-2-224-sources-4-jar/org/h2/security/auth/ConfigProperties.java
* /opt/cola/permits/2183411231_1726379013.276029/0/h2-2-2-224-sources-4-jar/org/h2/security/auth/H2AuthConfigXml.java
* /opt/cola/permits/2183411231_1726379013.276029/0/h2-2-2-224-sources-4-jar/org/h2/security/auth/impl/StaticUserCredentialsValidator.java
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```
/*
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* Initial Developer: Lazarev Nikita <lazarevn@ispras.ru>
*/
```

Found in path(s):
* /opt/cola/permits/2183411231_1726379013.276029/0/h2-2-2-224-sources-4-jar/org/h2/value/ValueJson.java
No license file was found, but licenses were detected in source scan.

```
/*
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* Initial Developer: H2 Group
*/
/**
   * Converts a value to a LocalDate.
   *
   * This method should only be called from Java 8 or later version.
   *
   * @param value
   *          the value to convert
   * @param provider
   *          the cast information provider
   * @return the LocalDate
   */
```

Found in path(s):
* /opt/cola/permits/2183411231_1726379013.276029/0/h2-2-2-224-sources-4-jar/org/h2/util/JSR310Utils.java
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```

```
* Initial Developer: H2 Group
*
* According to a mail from Alan Tucker to Chris H Miller from IBM,
* the algorithm is in the public domain:
*
* Date: 2010-07-15 15:57
* Subject: Re: Applied Combinatorics Code
*
* Chris,
* The combinatorics algorithms in my textbook are all not under patent
* or copyright. They are as much in the public domain as the solution to any
* common question in an undergraduate mathematics course, e.g., in my
* combinatorics course, the solution to the problem of how many arrangements
* there are of the letters in the word MATHEMATICS. I appreciate your due
* diligence.
* -Alan
*/
```

Found in path(s):
* /opt/cola/permits/2183411231_1726379013.276029/0/h2-2-2-224-sources-4-jar/org/h2/util/Permutations.java
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*
* Nicolas Fortin, Atelier SIG, IRSTV FR CNRS 24888
* Support for the operator "&&" as an alias for SPATIAL_INTERSECTS
*/
```

Found in path(s):
* /opt/cola/permits/2183411231_1726379013.276029/0/h2-2-2-224-sources-4-jar/org/h2/command/Parser.java
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```
/*
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*
* This code is based on the LZF algorithm from Marc Lehmann. It is a
* re-implementation of the C code:
* http://cvs.schmorp.de/liblzf/lzf_c.c?view=markup
* http://cvs.schmorp.de/liblzf/lzf_d.c?view=markup
*
* According to a mail from Marc Lehmann, it's OK to use his algorithm:
* Date: 2010-07-15 15:57
* Subject: Re: Question about LZF licensing
* ...
```

```
* The algorithm is not copyrighted (and cannot be copyrighted afaik) - as long
* as you wrote everything yourself, without copying my code, that's just fine
* (looking is of course fine too).
* ...
*
* Still I would like to keep his copyright info:
*
* Copyright (c) 2000-2005 Marc Alexander Lehmann <schmorp@schmorp.de>
* Copyright (c) 2005 Oren J. Maurice <oymaurice@hazorea.org.il>
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*/
```

Found in path(s):
* /opt/cola/permits/2183411231_1726379013.276029/0/h2-2-2-224-sources-4-jar/org/h2/compress/CompressLZF.java
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* Group
*/
```

Found in path(s):
* /opt/cola/permits/2183411231_1726379013.276029/0/h2-2-2-224-sources-4-jar/org/h2/jdbc/JdbcDatabaseMetaDataBackwardsCompat.java
* /opt/cola/permits/2183411231_1726379013.276029/0/h2-2-2-224-sources-4-jar/org/h2/store/LobStorageRemoteInputStream.java
* /opt/cola/permits/2183411231_1726379013.276029/0/h2-2-2-224-sources-4-jar/org/h2/expression/condition/ConditionAndOrN.java
* /opt/cola/permits/2183411231_1726379013.276029/0/h2-2-2-224-sources-4-jar/org/h2/jdbc/JdbcConnection.java
* /opt/cola/permits/2183411231_1726379013.276029/0/h2-2-2-224-sources-4-jar/org/h2/value/ValueLob.java
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* Iso8601:
* Initial Developer: Robert Rathsack (firstName dot lastName at gmx dot de)
*/
```

Found in path(s):
* /opt/cola/permits/2183411231_1726379013.276029/0/h2-2-2-224-sources-4-jar/org/h2/util/CloseWatcher.java
No license file was found, but licenses were detected in source scan.

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*/
```

Found in path(s):
* /opt/cola/permits/2183411231_1726379013.276029/0/h2-2-2-224-sources-4-jar/org/h2/jdbcx/JdbcConnectionPool.java
No license file was found, but licenses were detected in source scan.

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* Initial Developer: H2 Group
*
* The variable size number format code is a port from SQLite,
* but stored in reverse order (least significant bits in the first byte).
*/

Found in path(s):
* /opt/cola/permits/2183411231_1726379013.276029/0/h2-2-2-224-sources-4-jar/org/h2/store/Data.java
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* Initial Developer: Jan Kotek
*/

Found in path(s):
* /opt/cola/permits/2183411231_1726379013.276029/0/h2-2-2-224-sources-4-jar/org/h2/util/CacheSecondLevel.java

1.5081 idna 3.10

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1.5082 x-oauth2 0.23.0

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1.5083 cpp 11.2.0

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Version 3.1, 31 March 2009

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DRuntime: Runtime Library for the D Programming Language
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<signature of Ty Coon>, 1 April 1989
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@c End:
(This file is under construction.) -*- text -*-

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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for
gdb-specific debug information and the 68k series machines, most of
the preprocessing pass, and extensive changes in messages.c,
input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation

that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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[This is the first released version of the library GPL. It is
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treats it as such.

Because
of this blurred distinction, using the ordinary General
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function must
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This option is useful when you wish to copy part of the code of the
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c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

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That's all there is to it!
#
This is a Makefile stub which handles the creation of BSD shared
libraries.
#
In order to use this stub, the following makefile variables must be defined.
#
BSDLIB_VERSION = 1.0

```
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
 @echo " MKDIR pic"
 @mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:  $(BSD_LIB)

$(BSD_LIB): $(OBJS)
 (cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
 $(MV) pic/$(BSD_LIB) .
 $(RM) -f ../$(BSD_LIB)
 (cd ..; $(LN) $(LINK_BUILD_FLAGS) \
  `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
 @echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
 @$(INSTALL_PROGRAM) $(BSD_LIB) \
  $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
 @-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
 $(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
 $(RM)
 -rf pic
 $(RM) -f $(BSD_LIB)
 $(RM) -f ../$(BSD_LIB)
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==========

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1.5092 libss 1.47.0-2.4~exp1ubuntu4.1

1.5092.1 Available under license :

```
Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
 /*
-   Unix SMB/CIFS implementation.
+   trivial database library - standalone version

-   trivial database library - private includes
-
-   Copyright (C) Andrew Tridgell            2005
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```

```
Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: e2fsprogs
Upstream-Contact: Theodore Ts'o <tytso@mit.edu>
Source: http://sourceforge.net/projects/e2fsprogs
Comment:
This is the Debian GNU/Linux prepackaged version of the EXT2 file
system utilities (e2fsck, mke2fs, etc.).  The EXT2 utilities were
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or if the work is itself a library. The
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 <signature of Ty Coon>, 1 April 1990
 Ty Coon, President of Vice

That's all there is to it!
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
 @echo " MKDIR pic"
 @mkdir -p pic
```

```
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:  $(BSD_LIB)

$(BSD_LIB): $(OBJS)
 (cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
 $(MV) pic/$(BSD_LIB) .
 $(RM) -f ../$(BSD_LIB)
 (cd ..; $(LN) $(LINK_BUILD_FLAGS) \
  `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
 @echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
 @$(INSTALL_PROGRAM) $(BSD_LIB) \
  $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
 @-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
 $(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
 $(RM)
 -rf pic
 $(RM) -f $(BSD_LIB)
 $(RM) -f ../$(BSD_LIB)
```

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1.5093 zlib1g 1.3.dfsg-3.1ubuntu2.1

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1.5094 libgnutls30t64 3.8.3-1.1ubuntu3.2

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```
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===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
 /*
-   Unix SMB/CIFS implementation.
+   trivial database library - standalone version
```

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-   trivial database library - private includes
-
-   Copyright (C) Andrew Tridgell            2005
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Theodore Ts'o
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```
That's all there is to it!
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
 @echo " MKDIR pic"
 @mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:  $(BSD_LIB)

$(BSD_LIB): $(OBJS)
 (cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
 $(MV) pic/$(BSD_LIB) .
 $(RM) -f ../$(BSD_LIB)
 (cd ..; $(LN) $(LINK_BUILD_FLAGS) \
  `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
 @echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
 @$(INSTALL_PROGRAM) $(BSD_LIB) \
  $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
 @-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
 $(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
 $(RM)
 -rf pic
 $(RM) -f $(BSD_LIB)
```

$(RM) -f ../$(BSD_LIB)

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```
Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
 /*
-   Unix SMB/CIFS implementation.
+   trivial database library - standalone version

-   trivial database library - private includes
-
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Upstream-Name: e2fsprogs
Upstream-Contact: Theodore Ts'o <tytso@mit.edu>
Source: http://sourceforge.net/projects/e2fsprogs
Comment:
This is the Debian GNU/Linux prepackaged version of the EXT2 file
system utilities (e2fsck, mke2fs, etc.).  The EXT2 utilities were
```

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Theodore Ts'o
23-June-2007

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 library `Frob' (a library for tweaking knobs) written by James Random Hacker.

 <signature of Ty Coon>, 1 April 1990
 Ty Coon, President of Vice

That's all there is to it!
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
 @echo " MKDIR pic"
 @mkdir -p pic
```

```
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:  $(BSD_LIB)

$(BSD_LIB): $(OBJS)
 (cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
 $(MV) pic/$(BSD_LIB) .
 $(RM) -f ../$(BSD_LIB)
 (cd ..; $(LN) $(LINK_BUILD_FLAGS) \
  `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
 @echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
 @$(INSTALL_PROGRAM) $(BSD_LIB) \
  $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
 @-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
 $(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
 $(RM)
 -rf pic
 $(RM) -f $(BSD_LIB)
 $(RM) -f ../$(BSD_LIB)
```

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  * not use this constructor. Instead, they must use the {@link #BasicInterpreter(int)}
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  */

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*

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  * Constructs a new {@link SourceInterpreter} for the latest ASM API version. <i>Subclasses must
  * not use this constructor</i>. Instead, they must use the {@link #SourceInterpreter(int)}
  * version.
  */
```

Found in path(s):
* /opt/cola/permits/2184966957_1726524336.4483223/0/asm-analysis-9-7-sources-1-jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java

1.5110 javax.jws 3.1.2.2

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1.5118 platformdirs 4.3.6

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1.5119 jline-builtins 3.25.1

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1.5120 jline-style 3.25.1

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1.5121 jline-remote-telnet 3.25.1

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* /opt/cola/permits/2187994695_1726681452.828322/0/jline-remote-telnet-3-25-1-sources-2-jar/META-INF/maven/org.jline/jline-remote-telnet/pom.xml
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*
/opt/cola/permits/2187994695_1726681452.828322/0/jline-remote-telnet-3-25-1-sources-2-jar/org/jline/builtins/telnet/PortListener.java
* /opt/cola/permits/2187994695_1726681452.828322/0/jline-remote-telnet-3-25-1-sources-2-jar/org/jline/builtins/telnet/Connection.java
* /opt/cola/permits/2187994695_1726681452.828322/0/jline-remote-telnet-3-25-1-sources-2-jar/org/jline/builtins/telnet/TelnetIO.java
* /opt/cola/permits/2187994695_1726681452.828322/0/jline-remote-telnet-3-25-1-sources-2-jar/org/jline/builtins/telnet/ConnectionManager.java
* /opt/cola/permits/2187994695_1726681452.828322/0/jline-remote-telnet-3-25-1-sources-2-jar/org/jline/builtins/telnet/ConnectionEvent.java
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*
 /opt/cola/permits/2187994695_1726681452.828322/0/jline-remote-telnet-3-25-1-sources-2-jar/org/jline/builtins/telnet/ConnectionFilter.java

1.5122 jline-reader 3.25.1

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* /opt/cola/permits/2187994491_1726681458.1485906/0/jline-reader-3-25-1-sources-2-jar/org/jline/reader/UserInterruptException.java
* /opt/cola/permits/2187994491_1726681458.1485906/0/jline-reader-3-25-1-sources-2-

jar/org/jline/reader/impl/DefaultExpander.java
* /opt/cola/permits/2187994491_1726681458.1485906/0/jline-reader-3-25-1-sources-2-jar/org/jline/reader/Expander.java
* /opt/cola/permits/2187994491_1726681458.1485906/0/jline-reader-3-25-1-sources-2-jar/org/jline/reader/Widget.java
* /opt/cola/permits/2187994491_1726681458.1485906/0/jline-reader-3-25-1-sources-2-jar/org/jline/reader/impl/completer/NullCompleter.java
* /opt/cola/permits/2187994491_1726681458.1485906/0/jline-reader-3-25-1-sources-2-jar/org/jline/reader/Reference.java
* /opt/cola/permits/2187994491_1726681458.1485906/0/jline-reader-3-25-1-sources-2-jar/org/jline/reader/impl/UndoTree.java
* /opt/cola/permits/2187994491_1726681458.1485906/0/jline-reader-3-25-1-sources-2-jar/org/jline/keymap/KeyMap.java
* /opt/cola/permits/2187994491_1726681458.1485906/0/jline-reader-3-25-1-sources-2-jar/org/jline/reader/impl/completer/AggregateCompleter.java
* /opt/cola/permits/2187994491_1726681458.1485906/0/jline-reader-3-25-1-sources-2-jar/org/jline/reader/impl/completer/EnumCompleter.java
* /opt/cola/permits/2187994491_1726681458.1485906/0/jline-reader-3-25-1-sources-2-jar/org/jline/reader/Macro.java
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* /opt/cola/permits/2187994491_1726681458.1485906/0/jline-reader-3-25-1-sources-2-jar/org/jline/reader/impl/InputRC.java
* /opt/cola/permits/2187994491_1726681458.1485906/0/jline-reader-3-25-1-sources-2-jar/org/jline/reader/LineReader.java
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* /opt/cola/permits/2187994491_1726681458.1485906/0/jline-reader-3-25-1-sources-2-jar/org/jline/reader/impl/completer/ArgumentCompleter.java
* /opt/cola/permits/2187994491_1726681458.1485906/0/jline-reader-3-25-1-sources-2-jar/org/jline/reader/Candidate.java
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* /opt/cola/permits/2187994491_1726681458.1485906/0/jline-reader-3-25-1-sources-2-jar/org/jline/reader/package-info.java
* /opt/cola/permits/2187994491_1726681458.1485906/0/jline-reader-3-25-1-sources-2-jar/org/jline/reader/impl/completer/package-info.java
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* /opt/cola/permits/2187994491_1726681458.1485906/0/jline-reader-3-25-1-sources-2-jar/org/jline/reader/CompletionMatcher.java
* /opt/cola/permits/2187994491_1726681458.1485906/0/jline-reader-3-25-1-sources-2-jar/org/jline/reader/impl/ReaderUtils.java
* /opt/cola/permits/2187994491_1726681458.1485906/0/jline-reader-3-25-1-sources-2-jar/org/jline/reader/EndOfFileException.java
* /opt/cola/permits/2187994491_1726681458.1485906/0/jline-reader-3-25-1-sources-2-jar/org/jline/reader/impl/completer/SystemCompleter.java
* /opt/cola/permits/2187994491_1726681458.1485906/0/jline-reader-3-25-1-sources-2-jar/org/jline/reader/impl/DefaultParser.java
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* /opt/cola/permits/2187994491_1726681458.1485906/0/jline-reader-3-25-1-sources-2-jar/org/jline/reader/CompletingParsedLine.java
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* /opt/cola/permits/2187994491_1726681458.1485906/0/jline-reader-3-25-1-sources-2-jar/org/jline/keymap/BindingReader.java
* /opt/cola/permits/2187994491_1726681458.1485906/0/jline-reader-3-25-1-sources-2-jar/org/jline/reader/History.java
* /opt/cola/permits/2187994491_1726681458.1485906/0/jline-reader-3-25-1-sources-2-jar/org/jline/reader/impl/completer/FileNameCompleter.java
* /opt/cola/permits/2187994491_1726681458.1485906/0/jline-reader-3-25-1-sources-2-jar/org/jline/reader/ParsedLine.java
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* /opt/cola/permits/2187994491_1726681458.1485906/0/jline-reader-3-25-1-sources-2-jar/org/jline/reader/impl/history/DefaultHistory.java
* /opt/cola/permits/2187994491_1726681458.1485906/0/jline-reader-3-25-1-sources-2-jar/org/jline/reader/impl/DefaultHighlighter.java
* /opt/cola/permits/2187994491_1726681458.1485906/0/jline-reader-3-25-1-sources-2-jar/org/jline/reader/impl/CompletionMatcherImpl.java
* /opt/cola/permits/2187994491_1726681458.1485906/0/jline-reader-3-25-1-sources-2-jar/org/jline/reader/Highlighter.java
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1.5123 jline-native 3.25.1

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1.5124 jline-remote-ssh 3.25.1

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* /opt/cola/permits/2187994716_1726681374.1103933/0/jline-remote-ssh-3-25-1-sources-2-jar/org/jline/builtins/ssh/Ssh.java
* /opt/cola/permits/2187994716_1726681374.1103933/0/jline-remote-ssh-3-25-1-sources-2-jar/org/jline/builtins/ssh/ShellFactoryImpl.java
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1.5125 jline-terminal-jna 3.25.1

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#
class = org.jline.terminal.impl.jna.JnaTerminalProvider
```

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Found in path(s):
* /opt/cola/permits/2187994781_1726681398.6783733/0/jline-terminal-jna-3-25-1-sources-2-jar/org/jline/terminal/impl/jna/freebsd/CLibrary.java
* /opt/cola/permits/2187994781_1726681398.6783733/0/jline-terminal-jna-3-25-1-sources-2-jar/org/jline/terminal/impl/jna/osx/CLibrary.java
* /opt/cola/permits/2187994781_1726681398.6783733/0/jline-terminal-jna-3-25-1-sources-2-jar/org/jline/terminal/impl/jna/solaris/CLibrary.java
* /opt/cola/permits/2187994781_1726681398.6783733/0/jline-terminal-jna-3-25-1-sources-2-jar/org/jline/terminal/impl/jna/solaris/SolarisNativePty.java
* /opt/cola/permits/2187994781_1726681398.6783733/0/jline-terminal-jna-3-25-1-sources-2-jar/org/jline/terminal/impl/jna/win/JnaWinSysTerminal.java
* /opt/cola/permits/2187994781_1726681398.6783733/0/jline-terminal-jna-3-25-1-sources-2-jar/org/jline/terminal/impl/jna/linux/CLibrary.java
* /opt/cola/permits/2187994781_1726681398.6783733/0/jline-terminal-jna-3-25-1-sources-2-jar/org/jline/terminal/impl/jna/freebsd/FreeBsdNativePty.java
* /opt/cola/permits/2187994781_1726681398.6783733/0/jline-terminal-jna-3-25-1-sources-2-jar/org/jline/terminal/impl/jna/linux/LinuxNativePty.java
* /opt/cola/permits/2187994781_1726681398.6783733/0/jline-terminal-jna-3-25-1-sources-2-jar/org/jline/terminal/impl/jna/JnaNativePty.java
* /opt/cola/permits/2187994781_1726681398.6783733/0/jline-terminal-jna-3-25-1-sources-2-jar/org/jline/terminal/impl/jna/osx/OsXNativePty.java
* /opt/cola/permits/2187994781_1726681398.6783733/0/jline-terminal-jna-3-25-1-sources-2-jar/org/jline/terminal/impl/jna/JnaTerminalProvider.java

1.5126 jansi-core 3.25.1

1.5126.1 Available under license :

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Found in path(s):
* /opt/cola/permits/2187994588_1726681425.8509996/0/jansi-core-3-25-1-sources-2-jar/org/jline/jansi/io/AnsiOutputStream.java
* /opt/cola/permits/2187994588_1726681425.8509996/0/jansi-core-3-25-1-sources-2-jar/org/jline/jansi/Ansi.java
* /opt/cola/permits/2187994588_1726681425.8509996/0/jansi-core-3-25-1-sources-2-

jar/org/jline/jansi/io/FastBufferedOutputStream.java
* /opt/cola/permits/2187994588_1726681425.8509996/0/jansi-core-3-25-1-sources-2-jar/org/jline/jansi/AnsiConsole.java
* /opt/cola/permits/2187994588_1726681425.8509996/0/jansi-core-3-25-1-sources-2-jar/org/jline/jansi/io/WindowsAnsiProcessor.java
* /opt/cola/permits/2187994588_1726681425.8509996/0/jansi-core-3-25-1-sources-2-jar/org/jline/jansi/AnsiMode.java
* /opt/cola/permits/2187994588_1726681425.8509996/0/jansi-core-3-25-1-sources-2-jar/org/jline/jansi/io/Colors.java
* /opt/cola/permits/2187994588_1726681425.8509996/0/jansi-core-3-25-1-sources-2-jar/org/jline/jansi/AnsiPrintStream.java
* /opt/cola/permits/2187994588_1726681425.8509996/0/jansi-core-3-25-1-sources-2-jar/org/jline/jansi/AnsiRenderer.java
* /opt/cola/permits/2187994588_1726681425.8509996/0/jansi-core-3-25-1-sources-2-jar/org/jline/jansi/WindowsSupport.java
* /opt/cola/permits/2187994588_1726681425.8509996/0/jansi-core-3-25-1-sources-2-jar/org/jline/jansi/io/AnsiProcessor.java
* /opt/cola/permits/2187994588_1726681425.8509996/0/jansi-core-3-25-1-sources-2-jar/org/jline/jansi/AnsiMain.java
* /opt/cola/permits/2187994588_1726681425.8509996/0/jansi-core-3-25-1-sources-2-jar/org/jline/jansi/AnsiType.java
* /opt/cola/permits/2187994588_1726681425.8509996/0/jansi-core-3-25-1-sources-2-jar/org/jline/jansi/AnsiColors.java
* /opt/cola/permits/2187994588_1726681425.8509996/0/jansi-core-3-25-1-sources-2-jar/org/jline/jansi/io/ColorsAnsiProcessor.java
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Found in path(s):
* /opt/cola/permits/2187994588_1726681425.8509996/0/jansi-core-3-25-1-sources-2-jar/META-INF/maven/org.jline/jansi-core/pom.xml

1.5127 jline-terminal 3.25.1

1.5127.1 Available under license :

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#
class = org.jline.terminal.impl.exec.ExecTerminalProvider
```

Found in path(s):
* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/META-INF/services/org/jline/terminal/provider/exec
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Found in path(s):
* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/utils/AnsiWriter.java
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Found in path(s):
* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/terminal/spi/TerminalProvider.java
* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/terminal/impl/exec/ExecTerminalProvider.java
* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/terminal/impl/Diag.java
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Found in path(s):
* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/terminal/impl/AbstractWindowsTerminal.java
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black
maroon
green
olive
navy
purple
teal
silver
grey
red
lime
yellow
blue
fuchsia
aqua
white
```

grey0
navyblue
darkblue
blue3
blue3a
blue1
darkgreen
deepskyblue4
deepskyblue4a
deepskyblue4b
dodgerblue3
dodgerblue2
green4
springgreen4
turquoise4
deepskyblue3
deepskyblue3a
dodgerblue1
green3
springgreen3
darkcyan
lightseagreen
deepskyblue2
deepskyblue1
green3a
springgreen3a
springgreen2
cyan3
darkturquoise
turquoise2
green1
springgreen2a
springgreen1
mediumspringgreen
cyan2
cyan1
darkred
deeppink4
purple4
purple4a
purple3
blueviolet
orange4
grey37
mediumpurple4
slateblue3
slateblue3a
royalblue1

chartreuse4
darkseagreen4
paleturquoise4
steelblue
steelblue3
cornflowerblue
chartreuse3
darkseagreen4a
cadetblue
cadetbluea
skyblue3
steelblue1
chartreuse3a
palegreen3
seagreen3
aquamarine3
mediumturquoise
steelblue1a
chartreuse2
seagreen2
seagreen1
seagreen1a
aquamarine1
darkslategray2
darkreda
deeppink4a
darkmagenta
darkmagentaa
darkviolet
purplea
orange4a
lightpink4
plum4
mediumpurple3
mediumpurple3a
slateblue1
yellow4
wheat4
grey53
lightslategrey
mediumpurple
lightslateblue
yellow4a
darkolivegreen3
darkseagreen
lightskyblue3
lightskyblue3a
skyblue2

chartreuse2a
darkolivegreen3a
palegreen3a
darkseagreen3
darkslategray3
skyblue1
chartreuse1
lightgreen
lightgreena
palegreen1
aquamarine1a
darkslategray1
red3
deeppink4b
mediumvioletred
magenta3
darkvioleta
purpleb
darkorange3
indianred
hotpink3
mediumorchid3
mediumorchid
mediumpurple2
darkgoldenrod
lightsalmon3
rosybrown
grey63
mediumpurple2a
mediumpurple1
gold3
darkkhaki
navajowhite3
grey69
lightsteelblue3
lightsteelblue
yellow3
darkolivegreen3b
darkseagreen3a
darkseagreen2
lightcyan3
lightskyblue1
greenyellow
darkolivegreen2
palegreen1a
darkseagreen2a
darkseagreen1
paleturquoise1

red3a
deeppink3
deeppink3a
magenta3a
magenta3b
magenta2
darkorange3a
indianreda
hotpink3a
hotpink2
orchid
mediumorchid1
orange3
lightsalmon3a
lightpink3
pink3
plum3
violet
gold3a
lightgoldenrod3
tan
mistyrose3
thistle3
plum2
yellow3a
khaki3
lightgoldenrod2
lightyellow3
grey84
lightsteelblue1
yellow2
darkolivegreen1
darkolivegreen1a
darkseagreen1a
honeydew2
lightcyan1
red1
deeppink2
deeppink1
deeppink1a
magenta2a
magenta1
orangered1
indianred1
indianred1a
hotpink
hotpinka
mediumorchid1a

darkorange
salmon1
lightcoral
palevioletred1
orchid2
orchid1
orange1
sandybrown
lightsalmon1
lightpink1
pink1
plum1
gold1
lightgoldenrod2a
lightgoldenrod2b
navajowhite1
mistyrose1
thistle1
yellow1
lightgoldenrod1
khaki1
wheat1
cornsilk1
grey100
grey3
grey7
grey11
grey15
grey19
grey23
grey27
grey30
grey35
grey39
grey42
grey46
grey50
grey54
grey58
grey62
grey66
grey70
grey74
grey78
grey82
grey85
grey89
grey93

Found
 in path(s):
* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/utils/colors.txt
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```

Found in path(s):
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* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-

jar/org/jline/utils/NonBlockingPumpInputStream.java
* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/utils/PumpReader.java
* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/utils/WriterOutputStream.java
* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/utils/NonBlockingPumpReader.java
* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/terminal/impl/AbstractWindowsConsoleWriter.java
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auto_left_margin, bw, bw
auto_right_margin, am, am
back_color_erase, bce, ut
can_change, ccc, cc
ceol_standout_glitch, xhp, xs
col_addr_glitch, xhpa, YA
cpi_changes_res, cpix, YF
cr_cancels_micro_mode, crxm, YB
dest_tabs_magic_smso, xt, xt
eat_newline_glitch, xenl, xn
erase_overstrike, eo, eo
generic_type, gn, gn
hard_copy, hc, hc
hard_cursor, chts, HC
has_meta_key, km, km
has_print_wheel, daisy, YC
has_status_line, hs, hs
hue_lightness_saturation, hls, hl
insert_null_glitch, in, in
lpi_changes_res, lpix, YG
memory_above, da, da
memory_below, db, db
move_insert_mode, mir, mi
move_standout_mode, msgr, ms
needs_xon_xoff, nxon, nx
no_esc_ctlc, xsb, xb
no_pad_char, npc,

NP
non_dest_scroll_region, ndscr, ND
non_rev_rmcup, nrrmc, NR
over_strike, os, os
prtr_silent, mc5i, 5i
row_addr_glitch, xvpa, YD
semi_auto_right_margin, sam, YE
status_line_esc_ok, eslok, es
tilde_glitch, hz, hz
transparent_underline, ul, ul
xon_xoff, xon, xo
columns, cols, co
init_tabs, it, it
label_height, lh, lh
label_width, lw, lw
lines, lines, li
lines_of_memory, lm, lm
magic_cookie_glitch, xmc, sg
max_attributes, ma, ma
max_colors, colors, Co
max_pairs, pairs, pa
maximum_windows, wnum, MW
no_color_video, ncv, NC
num_labels, nlab, Nl
padding_baud_rate, pb, pb
virtual_terminal, vt, vt
width_status_line, wsl, ws
bit_image_entwining, bitwin, Yo
bit_image_type, bitype, Yp
buffer_capacity, bufsz, Ya
buttons, btns, BT
dot_horz_spacing, spinh, Yc
dot_vert_spacing, spinv, Yb
max_micro_address, maddr, Yd
max_micro_jump, mjump, Ye
micro_col_size, mcs, Yf
micro_line_size, mls, Yg
number_of_pins, npins, Yh
output_res_char, orc, Yi
output_res_horz_inch, orhi, Yk
output_res_line, orl, Yj
output_res_vert_inch,
orvi, Yl
print_rate, cps, Ym
wide_char_size, widcs, Yn
acs_chars, acsc, ac
back_tab, cbt, bt
bell, bel, bl

carriage_return, cr, cr
change_char_pitch, cpi, ZA
change_line_pitch, lpi, ZB
change_res_horz, chr, ZC
change_res_vert, cvr, ZD
change_scroll_region, csr, cs
char_padding, rmp, rP
clear_all_tabs, tbc, ct
clear_margins, mgc, MC
clear_screen, clear, cl
clr_bol, el1, cb
clr_eol, el, ce
clr_eos, ed, cd
column_address, hpa, ch
command_character, cmdch, CC
create_window, cwin, CW
cursor_address, cup, cm
cursor_down, cud1, do
cursor_home, home, ho
cursor_invisible, civis, vi
cursor_left, cub1, le
cursor_mem_address, mrcup, CM
cursor_normal, cnorm, ve
cursor_right, cuf1, nd
cursor_to_ll, ll, ll
cursor_up, cuu1, up
cursor_visible, cvvis, vs
define_char, defc, ZE
delete_character, dch1, dc
delete_line, dl1, dl
dial_phone, dial, DI
dis_status_line, dsl, ds
display_clock, dclk, DK
down_half_line, hd, hd
ena_acs, enacs, eA
enter_alt_charset_mode, smacs, as
enter_am_mode, smam,
SA
enter_blink_mode, blink, mb
enter_bold_mode, bold, md
enter_ca_mode, smcup, ti
enter_delete_mode, smdc, dm
enter_dim_mode, dim, mh
enter_doublewide_mode, swidm, ZF
enter_draft_quality, sdrfq, ZG
enter_insert_mode, smir, im
enter_italics_mode, sitm, ZH
enter_leftward_mode, slm, ZI

enter_micro_mode, smicm, ZJ
enter_near_letter_quality, snlq, ZK
enter_normal_quality, snrmq, ZL
enter_protected_mode, prot, mp
enter_reverse_mode, rev, mr
enter_secure_mode, invis, mk
enter_shadow_mode, sshm, ZM
enter_standout_mode, smso, so
enter_subscript_mode, ssubm, ZN
enter_superscript_mode, ssupm, ZO
enter_underline_mode, smul, us
enter_upward_mode, sum, ZP
enter_xon_mode, smxon, SX
erase_chars, ech, ec
exit_alt_charset_mode, rmacs, ae
exit_am_mode, rmam, RA
exit_attribute_mode, sgr0, me
exit_ca_mode, rmcup, te
exit_delete_mode, rmdc, ed
exit_doublewide_mode, rwidm, ZQ
exit_insert_mode, rmir, ei
exit_italics_mode, ritm, ZR
exit_leftward_mode, rlm, ZS
exit_micro_mode, rmicm, ZT
exit_shadow_mode, rshm,
ZU
exit_standout_mode, rmso, se
exit_subscript_mode, rsubm, ZV
exit_superscript_mode, rsupm, ZW
exit_underline_mode, rmul, ue
exit_upward_mode, rum, ZX
exit_xon_mode, rmxon, RX
fixed_pause, pause, PA
flash_hook, hook, fh
flash_screen, flash, vb
form_feed, ff, ff
from_status_line, fsl, fs
goto_window, wingo, WG
hangup, hup, HU
init_1string, is1, i1
init_2string, is2, is
init_3string, is3, i3
init_file, if, if
init_prog, iprog, iP
initialize_color, initc, Ic
initialize_pair, initp, Ip
insert_character, ich1, ic
insert_line, il1, al

insert_padding, ip, ip
key_a1, ka1, K1
key_a3, ka3, K3
key_b2, kb2, K2
key_backspace, kbs, kb
key_beg, kbeg, @1
key_btab, kcbt, kB
key_c1, kc1, K4
key_c3, kc3, K5
key_cancel, kcan, @2
key_catab, ktbc, ka
key_clear, kclr, kC
key_close, kclo, @3
key_command, kcmd, @4
key_copy, kcpy, @5
key_create, kcrt, @6
key_ctab, kctab, kt
key_dc, kdch1, kD
key_dl, kdl1, kL
key_down, kcud1, kd
key_eic, krmir, kM
key_end, kend, @7
key_enter, kent, @8
key_eol, kel, kE
key_eos,
ked, kS
key_exit, kext, @9
key_f0, kf0, k0
key_f1, kf1, k1
key_f10, kf10, k;
key_f11, kf11, F1
key_f12, kf12, F2
key_f13, kf13, F3
key_f14, kf14, F4
key_f15, kf15, F5
key_f16, kf16, F6
key_f17, kf17, F7
key_f18, kf18, F8
key_f19, kf19, F9
key_f2, kf2, k2
key_f20, kf20, FA
key_f21, kf21, FB
key_f22, kf22, FC
key_f23, kf23, FD
key_f24, kf24, FE
key_f25, kf25, FF
key_f26, kf26, FG
key_f27, kf27, FH

key_f28, kf28, FI
key_f29, kf29, FJ
key_f3, kf3, k3
key_f30, kf30, FK
key_f31, kf31, FL
key_f32, kf32, FM
key_f33, kf33, FN
key_f34, kf34, FO
key_f35, kf35, FP
key_f36, kf36, FQ
key_f37, kf37, FR
key_f38, kf38, FS
key_f39, kf39, FT
key_f4, kf4, k4
key_f40, kf40, FU
key_f41, kf41, FV
key_f42, kf42, FW
key_f43, kf43, FX
key_f44, kf44, FY
key_f45, kf45, FZ
key_f46, kf46, Fa
key_f47, kf47, Fb
key_f48, kf48, Fc
key_f49, kf49, Fd
key_f5, kf5, k5
key_f50, kf50, Fe
key_f51, kf51, Ff
key_f52, kf52, Fg
key_f53, kf53, Fh
key_f54, kf54, Fi
key_f55, kf55, Fj
key_f56, kf56, Fk
key_f57, kf57, Fl
key_f58, kf58,
Fm
key_f59, kf59, Fn
key_f6, kf6, k6
key_f60, kf60, Fo
key_f61, kf61, Fp
key_f62, kf62, Fq
key_f63, kf63, Fr
key_f7, kf7, k7
key_f8, kf8, k8
key_f9, kf9, k9
key_find, kfnd, @0
key_help, khlp, %1
key_home, khome, kh
key_ic, kich1, kI

key_il, kil1, kA
key_left, kcub1, kl
key_ll, kll, kH
key_mark, kmrk, %2
key_message, kmsg, %3
key_move, kmov, %4
key_next, knxt, %5
key_npage, knp, kN
key_open, kopn, %6
key_options, kopt, %7
key_ppage, kpp, kP
key_previous, kprv, %8
key_print, kprt, %9
key_redo, krdo, %0
key_reference, kref, &1
key_refresh, krfr, &2
key_replace, krpl, &3
key_restart, krst, &4
key_resume, kres, &5
key_right, kcuf1, kr
key_save, ksav, &6
key_sbeg, kBEG, &9
key_scancel, kCAN, &0
key_scommand, kCMD, *1
key_scopy, kCPY, *2
key_screate, kCRT, *3
key_sdc, kDC, *4
key_sdl, kDL, *5
key_select, kslt, *6
key_send, kEND, *7
key_seol, kEOL, *8
key_sexit, kEXT, *9
key_sf, kind, kF
key_sfind, kFND, *0
key_shelp, kHLP, #1
key_shome, kHOM, #2
key_sic, kIC, #3
key_sleft, kLFT, #4
key_smessage,
kMSG, %a
key_smove, kMOV, %b
key_snext, kNXT, %c
key_soptions, kOPT, %d
key_sprevious, kPRV, %e
key_sprint, kPRT, %f
key_sr, kri, kR
key_sredo, kRDO, %g
key_sreplace, kRPL, %h

key_sright, kRIT, %i
key_srsume, kRES, %j
key_ssave, kSAV, !1
key_ssuspend, kSPD, !2
key_stab, khts, kT
key_sundo, kUND, !3
key_suspend, kspd, &7
key_undo, kund, &8
key_up, kcuu1, ku
keypad_local, rmkx, ke
keypad_xmit, smkx, ks
lab_f0, lf0, l0
lab_f1, lf1, l1
lab_f10, lf10, la
lab_f2, lf2, l2
lab_f3, lf3, l3
lab_f4, lf4, l4
lab_f5, lf5, l5
lab_f6, lf6, l6
lab_f7, lf7, l7
lab_f8, lf8, l8
lab_f9, lf9, l9
label_format, fln, Lf
label_off, rmln, LF
label_on, smln, LO
meta_off, rmm, mo
meta_on, smm, mm
micro_column_address, mhpa, ZY
micro_down, mcud1, ZZ
micro_left, mcub1, Za
micro_right, mcuf1, Zb
micro_row_address, mvpa, Zc
micro_up, mcuu1, Zd
newline, nel, nw
order_of_pins, porder, Ze
orig_colors, oc, oc
orig_pair, op, op
pad_char, pad, pc
parm_dch, dch, DC
parm_delete_line, dl, DL
parm_down_cursor, cud, DO
parm_down_micro,
mcud, Zf
parm_ich, ich, IC
parm_index, indn, SF
parm_insert_line, il, AL
parm_left_cursor, cub, LE
parm_left_micro, mcub, Zg

parm_right_cursor, cuf, RI
parm_right_micro, mcuf, Zh
parm_rindex, rin, SR
parm_up_cursor, cuu, UP
parm_up_micro, mcuu, Zi
pkey_key, pfkey, pk
pkey_local, pfloc, pl
pkey_xmit, pfx, px
plab_norm, pln, pn
print_screen, mc0, ps
prtr_non, mc5p, pO
prtr_off, mc4, pf
prtr_on, mc5, po
pulse, pulse, PU
quick_dial, qdial, QD
remove_clock, rmclk, RC
repeat_char, rep, rp
req_for_input, rfi, RF
reset_1string, rs1, r1
reset_2string, rs2, r2
reset_3string, rs3, r3
reset_file, rf, rf
restore_cursor, rc, rc
row_address, vpa, cv
save_cursor, sc, sc
scroll_forward, ind, sf
scroll_reverse, ri, sr
select_char_set, scs, Zj
set_attributes, sgr, sa
set_background, setb, Sb
set_bottom_margin, smgb, Zk
set_bottom_margin_parm, smgbp, Zl
set_clock, sclk, SC
set_color_pair, scp, sp
set_foreground, setf, Sf
set_left_margin, smgl, ML
set_left_margin_parm, smglp, Zm
set_right_margin,
smgr, MR
set_right_margin_parm, smgrp, Zn
set_tab, hts, st
set_top_margin, smgt, Zo
set_top_margin_parm, smgtp, Zp
set_window, wind, wi
start_bit_image, sbim, Zq
start_char_set_def, scsd, Zr
stop_bit_image, rbim, Zs
stop_char_set_def, rcsd, Zt

subscript_characters, subcs, Zu
superscript_characters, supcs, Zv
tab, ht, ta
these_cause_cr, docr, Zw
to_status_line, tsl, ts
tone, tone, TO
underline_char, uc, uc
up_half_line, hu, hu
user0, u0, u0
user1, u1, u1
user2, u2, u2
user3, u3, u3
user4, u4, u4
user5, u5, u5
user6, u6, u6
user7, u7, u7
user8, u8, u8
user9, u9, u9
wait_tone, wait, WA
xoff_character, xoffc, XF
xon_character, xonc, XN
zero_motion, zerom, Zx
alt_scancode_esc, scesa, S8
bit_image_carriage_return, bicr, Yv
bit_image_newline, binel, Zz
bit_image_repeat, birep, Xy
char_set_names, csnm, Zy
code_set_init, csin, ci
color_names, colornm, Yw
define_bit_image_region, defbi, Yx
device_type, devt, dv
display_pc_char, dispc, S1
end_bit_image_region, endbi, Yy
enter_pc_charset_mode,
smpch, S2
enter_scancode_mode, smsc, S4
exit_pc_charset_mode, rmpch, S3
exit_scancode_mode, rmsc, S5
get_mouse, getm, Gm
key_mouse, kmous, Km
mouse_info, minfo, Mi
pc_term_options, pctrm, S6
pkey_plab, pfxl, xl
req_mouse_pos, reqmp, RQ
scancode_escape, scesc, S7
set0_des_seq, s0ds, s0
set1_des_seq, s1ds, s1
set2_des_seq, s2ds, s2

set3_des_seq, s3ds, s3
set_a_background, setab, AB
set_a_foreground, setaf, AF
set_color_band, setcolor, Yz
set_lr_margin, smglr, ML
set_page_length, slines, YZ
set_tb_margin, smgtb, MT
enter_horizontal_hl_mode, ehhlm, Xh
enter_left_hl_mode, elhlm, Xl
enter_low_hl_mode, elohlm, Xo
enter_right_hl_mode, erhlm, Xr
enter_top_hl_mode, ethlm, Xt
enter_vertical_hl_mode, evhlm, Xv
set_a_attributes, sgr1, sA
set_pglen_inch, slength, sL

Found in path(s):
* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/utils/capabilities.txt
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* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/utils/NonBlockingReader.java
* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/terminal/Terminal.java
* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/utils/StyleResolver.java
* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/utils/NonBlocking.java
* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/terminal/impl/DumbTerminal.java
* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/terminal/impl/LineDisciplineTerminal.java
* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/utils/Timeout.java

* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/terminal/Size.java
* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/terminal/impl/ExternalTerminal.java
* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/terminal/impl/PosixSysTerminal.java
* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/terminal/impl/PosixPtyTerminal.java
* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/utils/Curses.java
* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/utils/NonBlockingInputStreamImpl.java
*
 /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/utils/NonBlockingReaderImpl.java
* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/utils/Colors.java
* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/utils/AttributedStringBuilder.java
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* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/utils/InfoCmp.java
* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/utils/Status.java
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* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/terminal/impl/DumbTerminalProvider.java
* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/terminal/spi/TerminalExt.java
* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/terminal/spi/SystemStream.java
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* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/utils/Display.java
* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/utils/Signals.java
* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/utils/Log.java
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* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/utils/AttributedCharSequence.java
* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/utils/AttributedStyle.java
* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/terminal/TerminalBuilder.java
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* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/utils/AttributedString.java
* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/terminal/impl/exec/ExecPty.java
* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/terminal/impl/AbstractPosixTerminal.java
* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/utils/ShutdownHooks.java
* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/terminal/Cursor.java
* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/terminal/impl/NativeSignalHandler.java
* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/terminal/impl/MouseSupport.java
* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/utils/InputStreamReader.java
* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/utils/ClosedException.java
* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/utils/Levenshtein.java
* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/utils/WCWidth.java
* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/utils/ExecHelper.java
* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/terminal/impl/CursorSupport.java
* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/terminal/spi/Pty.java
* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/utils/DiffHelper.java
* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/terminal/MouseEvent.java
* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/utils/OSUtils.java

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* /opt/cola/permits/2187994804_1726681322.4189525/0/jline-terminal-3-25-1-sources-2-jar/org/jline/terminal/impl/package-info.java

1.5128 jline-terminal-ffm 3.25.1

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* /opt/cola/permits/2187994492_1726681384.0746117/0/jline-terminal-ffm-3-25-1-sources-2-jar/org/jline/terminal/impl/ffm/Kernel32.java
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#
class = org.jline.terminal.impl.ffm.FfmTerminalProvider

Found in path(s):
* /opt/cola/permits/2187994492_1726681384.0746117/0/jline-terminal-ffm-3-25-1-sources-2-jar/META-INF/services/org/jline/terminal/provider/ffm
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* /opt/cola/permits/2187994492_1726681384.0746117/0/jline-terminal-ffm-3-25-1-sources-2-jar/org/jline/terminal/impl/ffm/WindowsAnsiWriter.java
* /opt/cola/permits/2187994492_1726681384.0746117/0/jline-terminal-ffm-3-25-1-sources-2-jar/org/jline/terminal/impl/ffm/FfmNativePty.java
* /opt/cola/permits/2187994492_1726681384.0746117/0/jline-terminal-ffm-3-25-1-sources-2-jar/org/jline/terminal/impl/ffm/NativeWinConsoleWriter.java
* /opt/cola/permits/2187994492_1726681384.0746117/0/jline-terminal-ffm-3-25-1-sources-2-jar/org/jline/terminal/impl/ffm/FfmTerminalProvider.java
*
 /opt/cola/permits/2187994492_1726681384.0746117/0/jline-terminal-ffm-3-25-1-sources-2-jar/org/jline/terminal/impl/ffm/CLibrary.java
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1.5129 jline-terminal-jni 3.25.1

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* /opt/cola/permits/2187994501_1726681336.798385/0/jline-terminal-jni-3-25-1-sources-2-jar/org/jline/terminal/impl/jni/win/NativeWinSysTerminal.java
* /opt/cola/permits/2187994501_1726681336.798385/0/jline-terminal-jni-3-25-1-sources-2-jar/org/jline/terminal/impl/jni/JniNativePty.java
* /opt/cola/permits/2187994501_1726681336.798385/0/jline-terminal-jni-3-25-1-sources-2-jar/org/jline/terminal/impl/jni/JniTerminalProvider.java
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#
class = org.jline.terminal.impl.jni.JniTerminalProvider
```

Found in path(s):
* /opt/cola/permits/2187994501_1726681336.798385/0/jline-terminal-jni-3-25-1-sources-2-jar/META-INF/services/org/jline/terminal/provider/jni

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* /opt/cola/permits/2187994501_1726681336.798385/0/jline-terminal-jni-3-25-1-sources-2-jar/org/jline/terminal/impl/jni/win/NativeWinConsoleWriter.java
* /opt/cola/permits/2187994501_1726681336.798385/0/jline-terminal-jni-3-25-1-sources-2-jar/org/jline/terminal/impl/jni/solaris/SolarisNativePty.java
* /opt/cola/permits/2187994501_1726681336.798385/0/jline-terminal-jni-3-25-1-sources-2-jar/org/jline/terminal/impl/jni/freebsd/FreeBsdNativePty.java
* /opt/cola/permits/2187994501_1726681336.798385/0/jline-terminal-jni-3-25-1-sources-2-jar/org/jline/terminal/impl/jni/osx/OsXNativePty.java
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Found in path(s):
* /opt/cola/permits/2187994501_1726681336.798385/0/jline-terminal-jni-3-25-1-sources-2-jar/META-INF/maven/org.jline/jline-terminal-jni/pom.xml

1.5130 jline-terminal-jansi 3.25.1

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* /opt/cola/permits/2187994638_1726681356.0280786/0/jline-terminal-jansi-3-25-1-sources-2-jar/org/jline/terminal/impl/jansi/freebsd/FreeBsdNativePty.java
* /opt/cola/permits/2187994638_1726681356.0280786/0/jline-terminal-jansi-3-25-1-sources-2-jar/org/jline/terminal/impl/jansi/linux/LinuxNativePty.java
* /opt/cola/permits/2187994638_1726681356.0280786/0/jline-terminal-jansi-3-25-1-sources-2-jar/org/jline/terminal/impl/jansi/osx/OsXNativePty.java
* /opt/cola/permits/2187994638_1726681356.0280786/0/jline-terminal-jansi-3-25-1-sources-2-jar/org/jline/terminal/impl/jansi/solaris/SolarisNativePty.java
* /opt/cola/permits/2187994638_1726681356.0280786/0/jline-terminal-jansi-3-25-1-sources-2-jar/org/jline/terminal/impl/jansi/win/JansiWinConsoleWriter.java
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jar/org/jline/terminal/impl/jansi/win/WindowsSupport.java
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* /opt/cola/permits/2187994638_1726681356.0280786/0/jline-terminal-jansi-3-25-1-sources-2-jar/org/jline/terminal/impl/jansi/JansiNativePty.java
* /opt/cola/permits/2187994638_1726681356.0280786/0/jline-terminal-jansi-3-25-1-sources-2-jar/org/jline/terminal/impl/jansi/win/JansiWinSysTerminal.java

1.5131 checker-qual 3.45.0

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1.5132 attr 2.5.2-r2

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src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#

subprojects/dlg
#
#
EOF

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2006-Jan-27

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1.5137 ethtool 0.4.0

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1.5138 kafka-tools-api 3.7.1

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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1.5162 mapsforge-map-reader 0.20.0

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1.5163 mapsforge 0.20.0

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The Mapsforge project was jointly founded by **Thilo Mhlberg** and **Jrgen Bro**. Both remain owners of the project but have retired as active developers.

Ludwig Brinckmann revived the project in version 0.4.X.

Current owner and lead developer is:

- [**devemux86**](https://github.com/devemux86)
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1.5164 jodd-lagarto 6.0.6

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1.5167 mapsforge-core 0.20.0

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1.5169 body-parser 1.20.2

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@@ -4,11 +4,11 @@ Rev: 23371
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Theodore Ts'o
23-June-2007

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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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compelled
to copy the source along with the object code.

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That's all there is to it!

```
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
 @echo " MKDIR pic"
 @mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:  $(BSD_LIB)

$(BSD_LIB): $(OBJS)
 (cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
 $(MV) pic/$(BSD_LIB) .
 $(RM) -f ../$(BSD_LIB)
```

```
 (cd ..; $(LN) $(LINK_BUILD_FLAGS) \
  `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
 @echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
 @$(INSTALL_PROGRAM) $(BSD_LIB) \
  $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
 @-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
 $(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
 $(RM)
 -rf pic
 $(RM) -f $(BSD_LIB)
 $(RM) -f ../$(BSD_LIB)
```

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1.5181 kubernetes-apimachinery 0.28.14

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1.5182 kubernetes-component-base 0.28.14

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1.5183 dhcpcd 10.0.6-1ubuntu3.1

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1.5185 cryptsetup 2.7.0-1ubuntu4.1

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1.5190 icu 74.2-1ubuntu3.1

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```
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## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
```

```
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation
 rules
%.$(STATIC_O): $(srcdir)/%.c
 $(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
 $(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
 $(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
 $(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<


## Dependency rules
%.d: $(srcdir)/%.c
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.c) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.cc) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'
```

```
## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
 $(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
 $(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

##  Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup
```

1.5191 libaom 3.8.2-2ubuntu0.1

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1.5192 python-setuptools 68.1.2-2ubuntu1.1

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A. HISTORY OF THE SOFTWARE
==========

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above				
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as a successor of a language called ABC. Guido remains Python's
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in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All
Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no

2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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The code contained in this directory was automatically generated using the
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python -m validate_pyproject.pre_compile --output-dir=setuptools/config/_validate_pyproject --enable-plugins setuptools distutils --very-verbose

Please avoid changing it manually.

You can report issues or suggest changes directly to `validate-pyproject`

(or to the relevant plugin repository)

- https://github.com/abravalheri/validate-pyproject/issues

***

The following files include code from opensource projects
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- `fastjsonschema_exceptions.py`:
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`fastjsonschema`
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`validate-pyproject`
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
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1.5195 open-ldap 2.6.8-r0

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1.5196 postgre-sql 42.7.4

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1.5197 containerd 1.7.22

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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1.5198 hibernate 6.5.3.Final

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* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/metamodel/mapping/internal/InverseNonAggregatedIdentifierMapping.java
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/opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/results/graph/AbstractFetchParent.java
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// "proprietary" methods is better (this class is "proprietary" too).

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// "5.3 in upgrading. It will be removed in a later version."

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#
org.hibernate.jpa.HibernatePersistenceProvider
```

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* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/tool/schema/internal/exec/GenerationTargetToDatabase.java
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/source/internal/hbm/PluralAttributeSourceArrayImpl.java
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/jpa/boot/spi/PersistenceUnitDescriptor.java
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/annotations/processing/CheckHQL.java
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/result/ResultSetOutput.java
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* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/naming/ImplicitJoinTableNameSource.java
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* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/cache/spi/entry/CollectionCacheEntry.java
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* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/annotations/TimeZoneStorage.java
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* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/hbm/spi/TypeContainer.java

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*
* License: GNU Lesser General Public License (LGPL), version 2.1 or later.
* See the lgpl.txt file in the root directory or <http://www.gnu.org/licenses/lgpl-2.1.html>.
*/
/**
  * Use the proprietary WITH ROLLUP or WITH CUBE clause.
  */
```

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* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/dialect/GroupBySummarizationRenderingStrategy.java
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*/
/**
  * Does this dialect support the SQL {@code lateral} keyword or a
  * proprietary alternative?
  *
  * @return {@code true} if the underlying database supports lateral,
  * {@code false} otherwise.  The default is {@code false}.
  */
```

Found in path(s):
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/dialect/Dialect.java
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*/
/*
* Written by Doug Lea with assistance from members of JCP JSR-166
* Expert Group and released to the public domain, as explained at
* http://creativecommons.org/licenses/publicdomain
*/
```

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* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-

jar/org/hibernate/internal/util/collections/ConcurrentReferenceHashMap.java
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* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/EmbeddableBinder.java
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* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/internal/SimpleResourceLocator.java
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/mapping/LifecycleCallback.java

*
/opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/AnnotatedColumn.java
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/metamodel/mapping/DiscriminatorValueDetails.java
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ast/TableInsert.java
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ast/builder/TableMergeBuilder.java
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/registry/classloading/spi/ClassLoaderService.java
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/persister/entity/mutation/InsertCoordinatorStandard.java
*
/opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/jdbc/env/internal/LobCreationHelper.java
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/ComparisonRestriction.java
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/type/descriptor/jdbc/JavaTimeJdbcType.java
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/XMLContext.java
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/hbm/transform/TargetColumnAdapter.java
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/jdbc/batch/JdbcBatchLogging.java
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/BinderHelper.java
*
/opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ast/MutatingTableReference.java
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/ast/internal/ParameterMarkerStrategyInitiator.java
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/tuple/package-info.java
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/cache/spi/access/AccessType.java
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/jdbc/env/internal/StandardLobCreator.java
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/beanvalidation/package-info.java
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/FetchSecondPass.java
*
/opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/mapping/marshall/CacheAccessTypeMarshalling.java
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/PropertyHolderBuilder.java

* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/metamodel/mapping/AttributeMappingsList.java
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/mapping/AttributesContainer.java
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/IndexOrUniqueKeySecondPass.java
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/cfg/AvailableSettings.java
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/procedure/ParameterTypeException.java
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/jdbc/mutation/JdbcValueBindings.java
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/WrappedInferredData.java
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/loader/ast/internal/StandardBatchLoaderFactory.java
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/loader/internal/BaseNaturalIdLoadAccessImpl.java
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/query/sqm/mutation/internal/temptable/SoftDeleteExecutionDelegate.java
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/MutationOperationGroup.java
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/SelfExecutingUpdateOperation.java
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/jaxb/hbm/transform/ColumnDefaultsInsertableNonUpdateableImpl.java
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/ast/builder/AbstractTableMutationBuilder.java
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/sql/model/internal/MutationGroupStandard.java
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/boot/model/internal/ArrayBinder.java
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* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/jpa/persistence_3_1.xsd
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/jpa/persistence_3_0.xsd
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*/
/*
* Written by Doug Lea with assistance from members of JCP JSR-166
* Expert Group and released to the public domain, as explained at
* http://creativecommons.org/licenses/publicdomain
*
* Modified for https://jira.jboss.org/jira/browse/ISPN-299
* Includes ideas described in http://portal.acm.org/citation.cfm?id=1547428
*
*/
/**
* A hash table supporting full concurrency of retrievals and
* adjustable expected concurrency for updates. This class obeys the
* same functional specification as {@link java.util.Hashtable}, and
* includes versions of methods corresponding to each method of
* {@code Hashtable}. However, even though all operations are
* thread-safe, retrieval operations
 do not entail locking,
* and there is not any support for locking the entire table
* in a way that prevents all access. This class is fully
* interoperable with {@code Hashtable} in programs that rely on its

```
* thread safety but not on its synchronization details.
* <p>
* <p> Retrieval operations (including {@code get}) generally do not
* block, so may overlap with update operations (including
* {@code put} and {@code remove}). Retrievals reflect the results
* of the most recently <em>completed</em> update operations holding
* upon their onset.  For aggregate operations such as {@code putAll}
* and {@code clear}, concurrent retrievals may reflect insertion or
* removal of only some entries.  Similarly, Iterators and
* Enumerations return elements reflecting the state of the hash table
* at some point at or since the creation of the iterator/enumeration.
* They do <em>not</em> throw {@link java.util.ConcurrentModificationException}.
* However,
 iterators are designed to be used by only one thread at a time.
* <p>
* <p> The allowed concurrency among update operations is guided by
* the optional {@code concurrencyLevel} constructor argument
* (default {@code 16}), which is used as a hint for internal sizing.  The
* table is internally partitioned to try to permit the indicated
* number of concurrent updates without contention. Because placement
* in hash tables is essentially random, the actual concurrency will
* vary.  Ideally, you should choose a value to accommodate as many
* threads as will ever concurrently modify the table. Using a
* significantly higher value than you need can waste space and time,
* and a significantly lower value can lead to thread contention. But
* overestimates and underestimates within an order of magnitude do
* not usually have much noticeable impact. A value of one is
* appropriate when it is known that only one thread will modify and
* all others will only read. Also, resizing this
 or any other kind of
* hash table is a relatively slow operation, so, when possible, it is
* a good idea to provide estimates of expected table sizes in
* constructors.
* <p>
* <p>This class and its views and iterators implement all of the
* <em>optional</em> methods of the {@link Map} and {@link Iterator}
* interfaces.
* <p>
* <p>This class is copied from Infinispan, and was originally written
* by Doug Lea with assistance from members of JCP JSR-166 Expert Group and
* released to the public domain, as explained at
* http://creativecommons.org/licenses/publicdomain</p>
* <p>
* <p>
* <p> Like {@link java.util.Hashtable} but unlike {@link HashMap}, this class
* does <em>not</em> allow {@code null} to be used as a key or value.
*
* @param <K> the type of keys maintained by this map
```

```
* @param <V> the type of mapped values
*
* @author Doug Lea
*/
```

Found in path(s):
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/internal/util/collections/BoundedConcurrentHashMap.java
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```
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*/
/**
  * Read/write access to the shared second-level cache using
  * soft locks.
  * <p>
  * Indicates a non-vanishing likelihood that two concurrent
  * transactions attempt to update the same item of data
  * simultaneously. This strategy uses "soft" locks to prevent
  * concurrent transactions from retrieving or storing a stale
  * item from or in the cache during the transaction completion
  * process. A soft lock is simply a marker entry placed in the
  * cache while the updating transaction completes.
  * <ul>
  * <li>A second transaction may not read the item from the
  *     cache while the soft lock is present, and instead
  *     simply proceeds to read the item directly from
 the
  *     database, exactly as if a regular cache miss had
  *     occurred.
  * <li>Similarly, the soft lock also prevents this second
  *     transaction from storing a stale item to the cache
  *     when it returns from its round trip to the database
  *     with something that might not quite be the latest
  *     version.
  * </ul>
  * <p>
  * This concurrency strategy is not compatible with
  * serializable transaction isolation.
  *
  * @see AccessType#READ_WRITE
  */
```

Found in path(s):

* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/annotations/CacheConcurrencyStrategy.java
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* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/jpa/orm_2_2.xsd
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/jpa/persistence_2_2.xsd
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*/
/**
  * Used to pass a CDI {@link jakarta.enterprise.inject.spi.BeanManager} to
  * Hibernate.
  * <p>
  * According to the JPA specification, the {@code BeanManager} should be
  * passed at boot time and be ready for immediate use at that time. But
  * not all environments can do this (WildFly, for example). To accommodate
  * such environments, Hibernate provides two options: <ol>
  *     <li> A proprietary CDI extension SPI (which has been proposed to the CDI
  *         spec group as a standard option) which can be used to provide delayed
  *         {@code BeanManager} access: to use this solution, the reference passed
  *         as the {@code BeanManager} during bootstrap should
 be typed as
  *         {@link org.hibernate.resource.beans.container.spi.ExtendedBeanManager}.
  *     <li> Delayed access to the {@code BeanManager} reference: here, Hibernate
  *         will not access the reference passed as the {@code BeanManager} during
  *         bootstrap until it is first needed. Note, however, that this has the
  *         effect of delaying the detection of any deployment problems until after
  *         bootstrapping.
  * </ol>
  *
  * This setting is used to configure access to the {@code BeanManager},
  * either directly, or via
  * {@link org.hibernate.resource.beans.container.spi.ExtendedBeanManager}.
```

```
 *
 * @see org.hibernate.boot.SessionFactoryBuilder#applyBeanManager(Object)
 */
```

Found in path(s):
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/cfg/ManagedBeanSettings.java
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* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/jpa/orm_2_1.xsd
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/jpa/orm_1_0.xsd
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/xsd/mapping/legacy-mapping-4.0.xsd
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/jpa/persistence_1_0.xsd
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/jpa/persistence_2_1.xsd
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/hibernate-mapping-4.0.xsd
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/jpa/persistence_2_0.xsd
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/hibernate-configuration-4.0.xsd
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/xsd/cfg/legacy-configuration-4.0.xsd
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/jpa/orm_2_0.xsd
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*/
/**
 * Subclass used to simply instantiation of singular attributes representing an entity's
```

```
 * version.
 */
```

Found in path(s):
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/metamodel/model/domain/internal/SingularAttributeImpl.java
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*/
// It supports a proprietary operator
```

Found in path(s):
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/dialect/MariaDBSqlAstTranslator.java
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/dialect/MySQLSqlAstTranslator.java
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*/
/**
* JTA platform implementation intended for use with WebSphere Application Server (WAS).
* <p>
* WAS, unlike every other app server on the planet, does not allow direct access to the JTS TransactionManager.
* Instead, for common transaction-related tasks users must utilize a proprietary API known as
ExtendedJTATransaction.
* <p>
* Even more unfortunate, the exact TransactionManagerLookup to use inside of WAS is highly dependent upon<ul>
*     <li>WAS version</li>
*     <li>the WAS container in which Hibernate will be utilized</li>
* </ul>
* <p>
* This class is reported to work on WAS version 6 in any of the standard J2EE/Java EE component containers.
*
* @author Gavin
 King
* @author Jesper Udby
* @author Steve Ebersole
*/
```

Found in path(s):
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/engine/transaction/jta/platform/internal/WebSphereExtendedJtaPlatform.java
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*/
// public DomainResult createDomainResult(
```

Found in path(s):
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/query/sqm/tree/domain/SqmPluralValuedSimplePath.java
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/query/sqm/tree/expression/SqmLiteralEntityType.java
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*/
/**
  * In {@linkplain jakarta.persistence.InheritanceType#SINGLE_TABLE single table}
  * inheritance, subclasses share a table with the root class by definition. But
  * for {@linkplain jakarta.persistence.InheritanceType#JOINED joined} or
  * {@linkplain jakarta.persistence.InheritanceType#TABLE_PER_CLASS union} mappings,
  * the subclasses are assumed to occupy distinct tables, and it's an error to map
  * two subclasses to the same table.
  * <p>
  * As a special exception to this, if a joined inheritance hierarchy defines an
  * explicit {@link jakarta.persistence.DiscriminatorColumn}, we tolerate table
  * duplication among the subclasses, but we must "force" the discriminator to

 * account for this. (See issue HHH-14526.)
  */
```

Found in path(s):
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/mapping/RootClass.java
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```
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```

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* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/metamodel/spi/MetamodelImplementor.java
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Found in path(s):
* /opt/cola/permits/2197673775_1728996958.9449234/0/hibernate-core-6-5-3-final-sources-jar/org/hibernate/jpa/orm_3_1.xsd

1.5199 kafka-metadata 3.7.1

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1.5201 dbus-daemon 1.14.10-4ubuntu4.1

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1.5202 libicu74 74.2-1ubuntu3.1

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```
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## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation
 rules
%.$(STATIC_O): $(srcdir)/%.c
 $(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
 $(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
 $(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
 $(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<
```

```
## Dependency rules
%.d: $(srcdir)/%.c
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.c) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.cc) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
 $(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
 $(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

##  Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup
```

1.5203 libxt6t64 1.2.1-1.2build1

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1.5204 xkb-data 2.41-2ubuntu1.1

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1.5207 libde265-0 1.0.15-1build3

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1.5208 libjson-c5 0.17-1build1

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1.5209 dbus-system-bus-common 1.14.10-4ubuntu4.1

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The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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<signature of Ty Coon>, 1 April 1989
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1.5216 libpkgconf3 1.8.1-2build1

1.5216.1 Available under license :

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1.5217 libcrypt-dev 4.4.36-4build1

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machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
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1.5218 iperf 3.16-1build2

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 * by Mark Gates <mgates@nlanr.net>
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 * -------------------------------------------------------------------
 * input and output numbers, converting with kilo, mega, giga
 * ------------------------------------------------------------------- */
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1.5224 dbus-session-bus-common 1.14.10-4ubuntu4.1

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1.5226 cloud.google.com/go/auth 0.7.2

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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
```

```
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

```
func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
```

```
 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp

  // If you need to access the underlying RPC response,
  // you can do so by casting the `Response` as below.
  // Otherwise, remove this line. Only populated after
  // first call to Next(). Not safe for concurrent access.
  _ = it.Response.(*computepb.LicensesListResponse)
 }
}

func
 ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
```

```
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.SetIamPolicyLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
}
resp, err := c.SetIamPolicy(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
ctx := context.Background()
// This snippet has been automatically
generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
}
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
```

```
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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
```

```
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseCodeRequest{
 // TODO: Fill request
struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
}
resp, err := c.Get(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseCodeRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
}
resp,
err := c.TestIamPermissions(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
```

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.34.2
//  protoc        v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
```

```
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
```

```
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":            1,
  "WRITER":           2,
  "READER":           3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}
```

```
func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
```

```
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 if protoimpl.UnsafeEnabled {
  mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission)
 ProtoReflect() protoreflect.Message {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
```

```
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role
 != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
 0x19, 0x67, 0x6f,
 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
 0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
 0x0b, 0x67,
 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
 0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
 0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
```

```
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
0x64,
0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)
```

```
func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
 = []any{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func
 file_google_ai_generativelanguage_v1beta_permission_proto_init() {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 if !protoimpl.UnsafeEnabled {
  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v any, i int) any {
   switch v := v.(*Permission); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
```

```
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
  GoTypes:          file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
  DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
  EnumInfos:
        file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
  MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
 }.Build()
 File_google_ai_generativelanguage_v1beta_permission_proto = out.File
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
// Copyright 2024 Google LLC
//
// Licensed under the Apache License, Version 2.0 (the "License");
// you may not use this file except in compliance with the License.
// You may obtain a copy of the License at
//
//     https://www.apache.org/licenses/LICENSE-2.0
//
// Unless required by applicable law or agreed to in writing, software
// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
// See the License for the specific language governing permissions and
// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
```

```
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy:
```

```
 []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  Insert: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  List: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  SetIamPolicy: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000
 * time.Millisecond),
  },
 }
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
```

```
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
```

```
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
 for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by
third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
 list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use
 only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
```

```
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
```

```
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient
 = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}
```

```
// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params",
 fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "license",
url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
```

```
  }

  buf,
 err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 op := &Operation{
  &globalOperationsHandle{
   c:       c.operationClient,
   proto:   resp,
   project: req.GetProject(),
  },
 }
 return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()),
 "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
```

```
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err
 := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
```

```
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and
 context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp);
 err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }
```

```
 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId",
 fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
```

```
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err !=
nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-

cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient)
 List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

  params := url.Values{}
  if req != nil && req.Filter != nil {
   params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
  }
  if req != nil && req.MaxResults != nil {
   params.Add("maxResults",
fmt.Sprintf("%v", req.GetMaxResults()))
  }
  if req != nil && req.OrderBy != nil {
   params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
  }
  if req != nil && req.PageToken != nil {
   params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
  }
  if req != nil && req.ReturnPartialSuccess != nil {
   params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
  }

  baseUrl.RawQuery = params.Encode()

  // Build HTTP headers from client and context metadata.
  hds := append(c.xGoogHeaders, "Content-Type", "application/json")
  headers := gax.BuildHeaders(ctx, hds...)
  e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
   if settings.Path != "" {
```

```
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return
err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
```

```
 it.pageInfo.Token = req.GetPageToken()

 return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only
 by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
```

```
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on
 the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
```

```
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type",
 "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return
 nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
```

}

1.5227 google-golang-org-api 0.189.0

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1.5228 googlecloudgostorage 1.43.0

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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
```

```
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
```

```
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetIamPolicyLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
}
resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_Insert()
{
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.InsertLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
}
op, err := c.Insert(ctx, req)
if err != nil {
 // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
```

```
 // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp

  // If you need to access the underlying RPC response,
  // you can do so by casting the `Response` as below.
  // Otherwise, remove this line. Only populated after
  // first call to Next(). Not safe for concurrent access.
  _ = it.Response.(*computepb.LicensesListResponse)
 }
}

func
 ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
```

```
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.SetIamPolicyLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
}
resp, err := c.SetIamPolicy(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
ctx := context.Background()
// This snippet has been automatically
generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
}
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
```

```
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

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// versions:
//  protoc-gen-go v1.34.2
//  protoc        v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)
```

```
// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32
```

```
const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":            1,
  "WRITER":           2,
  "READER":           3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
```

```
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
```

```
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 if protoimpl.UnsafeEnabled {
  mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission)
 ProtoReflect() protoreflect.Message {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
```

```
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role
 != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
 0x19, 0x67, 0x6f,
 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
 0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
 0x0b, 0x67,
 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
 0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
 0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
```

```
 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
 0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
 0x64,
 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
 0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
 0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
```

```
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
 = []any{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func
 file_google_ai_generativelanguage_v1beta_permission_proto_init() {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 if !protoimpl.UnsafeEnabled {
  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v any, i int) any {
   switch v := v.(*Permission); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
```

```
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
  GoTypes:          file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
  DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
  EnumInfos:
        file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
  MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
 }.Build()
 File_google_ai_generativelanguage_v1beta_permission_proto = out.File
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
// Copyright 2024 Google LLC
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// Licensed under the Apache License, Version 2.0 (the "License");
// you may not use this file except in compliance with the License.
// You may obtain a copy of the License at
//
//     https://www.apache.org/licenses/LICENSE-2.0
//
// Unless required by applicable law or agreed to in writing, software
// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
// See the License for the specific language governing permissions and
// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"
```

```
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy:
 []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
```

```
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  Insert: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  List: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  SetIamPolicy: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000
 * time.Millisecond),
  },
 }
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
```

```
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}
```

```
// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
 for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
 list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use
 only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}
```

```
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC
```

```
 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient
 = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
```

```
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params",
 fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "license",
url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf,
```

```
 err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 op := &Operation{
  &globalOperationsHandle{
   c:       c.operationClient,
   proto:   resp,
   project: req.GetProject(),
  },
 }
 return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()),
 "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
```

```
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err
:= unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
```

```
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and
 context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp);
 err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
```

```
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId",
 fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
```

```
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err !=
nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

func (c *licensesRESTClient)

```
List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
it := &LicenseIterator{}
req = proto.Clone(req).(*computepb.ListLicensesRequest)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
 resp := &computepb.LicensesListResponse{}
 if pageToken != "" {
  req.PageToken = proto.String(pageToken)
 }
 if pageSize > math.MaxInt32 {
  req.MaxResults = proto.Uint32(math.MaxInt32)
 } else if pageSize != 0 {
  req.MaxResults = proto.Uint32(uint32(pageSize))
 }
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, "", err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.Filter != nil {
  params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
 }
 if req != nil && req.MaxResults != nil {
  params.Add("maxResults",
fmt.Sprintf("%v", req.GetMaxResults()))
 }
 if req != nil && req.OrderBy != nil {
  params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
 }
 if req != nil && req.PageToken != nil {
  params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
 }
 if req != nil && req.ReturnPartialSuccess != nil {
  params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := append(c.xGoogHeaders, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
```

```
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return
err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
```

```
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only
 by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
```

```
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on
 the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
```

```
 hds = append(hds, "Content-Type",
 "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return
 nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
```

1.5229 libbpf 1.4

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Found in path(s):
* /opt/cola/permits/2199005682_1747442959.549905/0/bpftool-master-zip/bpftool-master/Dockerfile

1.5230 zstd-jni 1.5.6-4

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Manifest-Version: 1.0
Specification-Title: zstd-jni
Specification-Version: 1.5.6-4
Specification-Vendor: com.github.luben
Implementation-Title: zstd-jni
Implementation-Version: 1.5.6-4
Implementation-Vendor: com.github.luben
Implementation-Vendor-Id: com.github.luben
Automatic-Module-Name: com.github.luben.zstd_jni
Bnd-LastModified: 1721499007163
Bundle-Name: zstd-jni
Bundle-SymbolicName: com.github.luben.zstd-jni
Bundle-Description: JNI bindings for Zstd native library that provides f
ast and high compression lossless algorithm for Java and all JVM langua
ges.
Bundle-Vendor: com.github.luben
Bundle-License: https://opensource.org/licenses/BSD-2-Clause;description
=BSD 2-Clause License
Bundle-Version: 1.5.6.4
Bundle-ManifestVersion: 2
Bundle-NativeCode: darwin/x86_64/libzstd-jni-1.5.6-4.dylib;osname=MacOS;
osname=MacOSX;processor=x86_64,darwin/aarch64/libzstd-jni-1.5.6-4.dylib
;osname=MacOS;osname=MacOSX;processor=aarch64,freebsd/amd64/libzstd-jni
 -1.5.6-4.so;osname=FreeBSD;processor=amd64,freebsd/i386/libzstd-jni-1.5
.6-4.so;osname=FreeBSD;processor=i386,linux/aarch64/libzstd-jni-1.5.6-4
.so;osname=Linux;processor=aarch64,linux/amd64/libzstd-jni-1.5.6-4.so;o

sname=Linux;processor=amd64,linux/arm/libzstd-jni-1.5.6-4.so;osname=Lin
ux;processor=arm,linux/i386/libzstd-jni-1.5.6-4.so;osname=Linux;process
or=i386,linux/mips64/libzstd-jni-1.5.6-4.so;osname=Linux;processor=mips
64,linux/loongarch64/libzstd-jni-1.5.6-4.so;osname=Linux;processor=loon
garch64,linux/ppc64/libzstd-jni-1.5.6-4.so;osname=Linux;processor=ppc64
,linux/ppc64le/libzstd-jni-1.5.6-4.so;osname=Linux;processor=ppc64le,li
nux/riscv64/libzstd-jni-1.5.6-4.so;osname=Linux;processor=riscv64,linux
/s390x/libzstd-jni-1.5.6-4.so;osname=Linux;processor=s390x,win/amd64/li
bzstd-jni-1.5.6-4.dll;osname=Win32;processor=amd64,win/aarch64/libzstd-
jni-1.5.6-4.dll;osname=Win32;processor=aarch64,win/x86/libzstd-jni-1.5.
6-4.dll;osname=Win32;processor=x86
Export-Package:
 com.github.luben.zstd;version="1.5.6.4",com.github.luben
.zstd.util;version="1.5.6.4"
Import-Package: org.osgi.framework;resolution:=optional
Private-Package: darwin.aarch64,darwin.x86_64,freebsd.amd64,freebsd.i386
,linux.aarch64,linux.amd64,linux.arm,linux.i386,linux.loongarch64,linux
.mips64,linux.ppc64,linux.ppc64le,linux.riscv64,linux.s390x,win.aarch64
,win.amd64,win.x86
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version>=1.8))"

Found in path(s):
* /opt/cola/permits/2200576597_1727438189.6306102/0/zstd-jni-1-5-6-4-jar/META-INF/MANIFEST.MF

1.5231 fsnotify 1.6.0

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1.5232 easyjson 0.7.7

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1.5233 sqlite 3.45.1

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1.5234 go-jmespath 0.4.0

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1.5235 apr 1.7.5-r0

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file_io/unix/mktemp.c, strings/apr_strings.c:

```
/*
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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

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From dso/aix/dso.c:

* Based on libdl (dlfcn.c/dlfcn.h) which is
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From strings/apr_strnatcmp.c,
include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.

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From
strings/apr_snprintf.c:

```
*
* cvt - IEEE floating point formatting routines.
*       Derived from UNIX V7, Copyright(C) Caldera International Inc.
*
```

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1.5236 projectcalico-calico 3.28.2

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```
# TEMPORARY
usdt/basic                    # failing verifier due to bounds check after LLVM update
usdt/multispec                # same as above
```

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```
==========================================================================
LIBBPF_0.0.1 {
 global:
  bpf_btf_get_fd_by_id;
  bpf_map__btf_key_type_id;
  bpf_map__btf_value_type_id;
  bpf_map__fd;
  bpf_map__name;
  bpf_map__pin;
  bpf_map__reuse_fd;
  bpf_map__set_ifindex;
  bpf_map__set_inner_map_fd;
  bpf_map__unpin;
  bpf_map_delete_elem;
  bpf_map_get_fd_by_id;
  bpf_map_get_next_id;
  bpf_map_get_next_key;
  bpf_map_lookup_and_delete_elem;
  bpf_map_lookup_elem;
  bpf_map_update_elem;
  bpf_obj_get;
  bpf_obj_get_info_by_fd;
  bpf_obj_pin;
  bpf_object__btf_fd;
  bpf_object__close;
  bpf_object__find_map_by_name;
  bpf_object__kversion;
  bpf_object__load;
  bpf_object__name;
  bpf_object__open;
  bpf_object__pin;
  bpf_object__pin_maps;
  bpf_object__pin_programs;
  bpf_object__unpin_maps;
  bpf_object__unpin_programs;
  bpf_prog_attach;
  bpf_prog_detach;
  bpf_prog_detach2;
  bpf_prog_get_fd_by_id;
  bpf_prog_get_next_id;
  bpf_prog_query;
  bpf_program__fd;
  bpf_program__pin;
  bpf_program__set_expected_attach_type;
  bpf_program__set_ifindex;
  bpf_program__set_type;
```

```
  bpf_program__unload;
  bpf_program__unpin;
  bpf_prog_linfo__free;
  bpf_prog_linfo__new;
  bpf_prog_linfo__lfind_addr_func;
  bpf_prog_linfo__lfind;
  bpf_raw_tracepoint_open;
  bpf_task_fd_query;
  btf__fd;
  btf__find_by_name;
  btf__free;
  btf__name_by_offset;
  btf__new;
  btf__resolve_size;
  btf__resolve_type;
  btf__type_by_id;
  libbpf_attach_type_by_name;
  libbpf_get_error;
  libbpf_prog_type_by_name;
  libbpf_set_print;
  libbpf_strerror;
 local:
  *;
};

LIBBPF_0.0.2
 {
 global:
  bpf_map_lookup_elem_flags;
  bpf_object__btf;
  bpf_object__find_map_fd_by_name;
  btf__get_raw_data;
  btf_ext__free;
  btf_ext__get_raw_data;
  btf_ext__new;
} LIBBPF_0.0.1;

LIBBPF_0.0.3 {
 global:
  bpf_map__is_internal;
  bpf_map_freeze;
} LIBBPF_0.0.2;

LIBBPF_0.0.4 {
 global:
  bpf_link__destroy;
  bpf_program__attach_kprobe;
  bpf_program__attach_perf_event;
```

```
  bpf_program__attach_raw_tracepoint;
  bpf_program__attach_tracepoint;
  bpf_program__attach_uprobe;
  btf_dump__dump_type;
  btf_dump__free;
  btf__parse_elf;
  libbpf_num_possible_cpus;
  perf_buffer__free;
  perf_buffer__poll;
}
 LIBBPF_0.0.3;

LIBBPF_0.0.5 {
 global:
  bpf_btf_get_next_id;
} LIBBPF_0.0.4;

LIBBPF_0.0.6 {
 global:
  bpf_map__get_pin_path;
  bpf_map__is_pinned;
  bpf_map__set_pin_path;
  bpf_object__open_file;
  bpf_object__open_mem;
  bpf_program__attach_trace;
  bpf_program__get_expected_attach_type;
  bpf_program__get_type;
  btf__find_by_name_kind;
  libbpf_find_vmlinux_btf_id;
} LIBBPF_0.0.5;

LIBBPF_0.0.7 {
 global:
  btf_dump__emit_type_decl;
  bpf_link__disconnect;
  bpf_map__attach_struct_ops;
  bpf_map_delete_batch;
  bpf_map_lookup_and_delete_batch;
  bpf_map_lookup_batch;
  bpf_map_update_batch;
  bpf_object__find_program_by_name;
  bpf_object__attach_skeleton;
  bpf_object__destroy_skeleton;
  bpf_object__detach_skeleton;
  bpf_object__load_skeleton;
  bpf_object__open_skeleton;
  bpf_program__attach;
  bpf_program__name;
```

```
  btf__align_of;
  libbpf_find_kernel_btf;
 }
 LIBBPF_0.0.6;

LIBBPF_0.0.8 {
 global:
  bpf_link__fd;
  bpf_link__open;
  bpf_link__pin;
  bpf_link__pin_path;
  bpf_link__unpin;
  bpf_link__update_program;
  bpf_link_create;
  bpf_link_update;
  bpf_map__set_initial_value;
  bpf_prog_attach_opts;
  bpf_program__attach_cgroup;
  bpf_program__attach_lsm;
  bpf_program__set_attach_target;
} LIBBPF_0.0.7;

LIBBPF_0.0.9 {
 global:
  bpf_enable_stats;
  bpf_iter_create;
  bpf_link_get_fd_by_id;
  bpf_link_get_next_id;
  bpf_program__attach_iter;
  bpf_program__attach_netns;
  perf_buffer__consume;
  ring_buffer__add;
  ring_buffer__consume;
  ring_buffer__free;
  ring_buffer__new;
  ring_buffer__poll;
} LIBBPF_0.0.8;

LIBBPF_0.1.0 {
 global:
  bpf_link__detach;
  bpf_link_detach;
  bpf_map__ifindex;
  bpf_map__key_size;
  bpf_map__map_flags;
  bpf_map__max_entries;
  bpf_map__numa_node;
  bpf_map__set_key_size;
```

```
  bpf_map__set_map_flags;
  bpf_map__set_max_entries;
  bpf_map__set_numa_node;
  bpf_map__set_type;
  bpf_map__set_value_size;
  bpf_map__type;
  bpf_map__value_size;
  bpf_program__attach_xdp;
  bpf_program__autoload;
  bpf_program__set_autoload;
  btf__parse;
  btf__parse_raw;
  btf__pointer_size;
  btf__set_fd;
  btf__set_pointer_size;
}
 LIBBPF_0.0.9;

LIBBPF_0.2.0 {
 global:
  bpf_prog_bind_map;
  bpf_prog_test_run_opts;
  bpf_program__attach_freplace;
  bpf_program__section_name;
  btf__add_array;
  btf__add_const;
  btf__add_enum;
  btf__add_enum_value;
  btf__add_datasec;
  btf__add_datasec_var_info;
  btf__add_field;
  btf__add_func;
  btf__add_func_param;
  btf__add_func_proto;
  btf__add_fwd;
  btf__add_int;
  btf__add_ptr;
  btf__add_restrict;
  btf__add_str;
  btf__add_struct;
  btf__add_typedef;
  btf__add_union;
  btf__add_var;
  btf__add_volatile;
  btf__endianness;
  btf__find_str;
  btf__new_empty;
  btf__set_endianness;
```

```
  btf__str_by_offset;
  perf_buffer__buffer_cnt;
  perf_buffer__buffer_fd;
  perf_buffer__epoll_fd;
  perf_buffer__consume_buffer;
} LIBBPF_0.1.0;

LIBBPF_0.3.0 {
 global:
  btf__base_btf;
  btf__parse_elf_split;
  btf__parse_raw_split;
  btf__parse_split;
  btf__new_empty_split;
  btf__new_split;
  ring_buffer__epoll_fd;
 }
 LIBBPF_0.2.0;

LIBBPF_0.4.0 {
 global:
  btf__add_float;
  btf__add_type;
  bpf_linker__add_file;
  bpf_linker__finalize;
  bpf_linker__free;
  bpf_linker__new;
  bpf_map__inner_map;
  bpf_object__set_kversion;
  bpf_tc_attach;
  bpf_tc_detach;
  bpf_tc_hook_create;
  bpf_tc_hook_destroy;
  bpf_tc_query;
} LIBBPF_0.3.0;

LIBBPF_0.5.0 {
 global:
  bpf_map__initial_value;
  bpf_map__pin_path;
  bpf_map_lookup_and_delete_elem_flags;
  bpf_program__attach_kprobe_opts;
  bpf_program__attach_perf_event_opts;
  bpf_program__attach_tracepoint_opts;
  bpf_program__attach_uprobe_opts;
  bpf_object__gen_loader;
  btf__load_from_kernel_by_id;
  btf__load_from_kernel_by_id_split;
```

```
  btf__load_into_kernel;
  btf__load_module_btf;
  btf__load_vmlinux_btf;
  btf_dump__dump_type_data;
  libbpf_set_strict_mode;
} LIBBPF_0.4.0;

LIBBPF_0.6.0 {
 global:
  bpf_map__map_extra;
  bpf_map__set_map_extra;
  bpf_map_create;
  bpf_object__next_map;
  bpf_object__next_program;
  bpf_object__prev_map;
  bpf_object__prev_program;
  bpf_prog_load;
  bpf_program__flags;
  bpf_program__insn_cnt;
  bpf_program__insns;
  bpf_program__set_flags;
  btf__add_btf;
  btf__add_decl_tag;
  btf__add_type_tag;
  btf__dedup;
  btf__raw_data;
  btf__type_cnt;
  btf_dump__new;
  libbpf_major_version;
  libbpf_minor_version;
  libbpf_version_string;
  perf_buffer__new;
  perf_buffer__new_raw;
}
 LIBBPF_0.5.0;

LIBBPF_0.7.0 {
 global:
  bpf_btf_load;
  bpf_program__expected_attach_type;
  bpf_program__log_buf;
  bpf_program__log_level;
  bpf_program__set_log_buf;
  bpf_program__set_log_level;
  bpf_program__type;
  bpf_xdp_attach;
  bpf_xdp_detach;
  bpf_xdp_query;
```

```
  bpf_xdp_query_id;
  btf_ext__raw_data;
  libbpf_probe_bpf_helper;
  libbpf_probe_bpf_map_type;
  libbpf_probe_bpf_prog_type;
  libbpf_set_memlock_rlim;
} LIBBPF_0.6.0;

LIBBPF_0.8.0 {
 global:
  bpf_map__autocreate;
  bpf_map__get_next_key;
  bpf_map__delete_elem;
  bpf_map__lookup_and_delete_elem;
  bpf_map__lookup_elem;
  bpf_map__set_autocreate;
  bpf_map__update_elem;
  bpf_map_delete_elem_flags;
  bpf_object__destroy_subskeleton;
  bpf_object__open_subskeleton;
  bpf_program__attach_kprobe_multi_opts;
  bpf_program__attach_trace_opts;
  bpf_program__attach_usdt;
  bpf_program__set_insns;
  libbpf_register_prog_handler;
  libbpf_unregister_prog_handler;
}
 LIBBPF_0.7.0;

LIBBPF_1.0.0 {
 global:
  bpf_obj_get_opts;
  bpf_prog_query_opts;
  bpf_program__attach_ksyscall;
  bpf_program__autoattach;
  bpf_program__set_autoattach;
  btf__add_enum64;
  btf__add_enum64_value;
  libbpf_bpf_attach_type_str;
  libbpf_bpf_link_type_str;
  libbpf_bpf_map_type_str;
  libbpf_bpf_prog_type_str;
  perf_buffer__buffer;
} LIBBPF_0.8.0;

LIBBPF_1.1.0 {
 global:
  bpf_btf_get_fd_by_id_opts;
```

```
  bpf_link_get_fd_by_id_opts;
  bpf_map_get_fd_by_id_opts;
  bpf_prog_get_fd_by_id_opts;
  user_ring_buffer__discard;
  user_ring_buffer__free;
  user_ring_buffer__new;
  user_ring_buffer__reserve;
  user_ring_buffer__reserve_blocking;
  user_ring_buffer__submit;
}
 LIBBPF_1.0.0;

LIBBPF_1.2.0 {
 global:
  bpf_btf_get_info_by_fd;
  bpf_link__update_map;
  bpf_link_get_info_by_fd;
  bpf_map_get_info_by_fd;
  bpf_prog_get_info_by_fd;
} LIBBPF_1.1.0;
version: v1.0
name: Run Fossa Scan

agent:
 machine:
   type: f1-standard-2
   os_image: ubuntu2004

execution_time_limit:
 minutes: 30

blocks:
 - name: "Trigger Fossa Scan"
   skip:
     # Only run on master or release branches, not PRs.
     when: "(branch =~ 'master|release-.*') and (branch !~ '.+')"
   dependencies: []
   task:
     prologue:
       commands:
         - "curl -fsSLH 'Cache-Control: no-cache' https://raw.githubusercontent.com/fossas/fossa-cli/master/install-latest.sh | bash"
         - checkout
         - retry git fetch --unshallow
     jobs:
       - name: "FOSSA scan"
         commands:
           - fossa analyze
```

secrets:
- name: foss-api-key

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```
DOXYFILE_ENCODING      = UTF-8
PROJECT_NAME           = "libbpf"
PROJECT_NUMBER         =
PROJECT_BRIEF          =
PROJECT_LOGO           =
OUTPUT_DIRECTORY       = ./build
CREATE_SUBDIRS         = NO
ALLOW_UNICODE_NAMES    = NO
OUTPUT_LANGUAGE        = English
OUTPUT_TEXT_DIRECTION  = None
BRIEF_MEMBER_DESC      = YES
REPEAT_BRIEF           = YES
ALWAYS_DETAILED_SEC    = NO
INLINE_INHERITED_MEMB  = NO
FULL_PATH_NAMES        = YES
STRIP_FROM_PATH        =
STRIP_FROM_INC_PATH    =
SHORT_NAMES            = NO
JAVADOC_AUTOBRIEF      = NO
JAVADOC_BANNER         = NO
QT_AUTOBRIEF           = NO
MULTILINE_CPP_IS_BRIEF = NO
PYTHON_DOCSTRING       = NO
INHERIT_DOCS           = YES
SEPARATE_MEMBER_PAGES  = NO
TAB_SIZE               = 4
ALIASES                =
OPTIMIZE_OUTPUT_FOR_C  = YES
```

```
OPTIMIZE_OUTPUT_JAVA   = NO
OPTIMIZE_FOR_FORTRAN   = NO
OPTIMIZE_OUTPUT_VHDL   = NO
OPTIMIZE_OUTPUT_SLICE  = NO
EXTENSION_MAPPING      =
MARKDOWN_SUPPORT       = YES
TOC_INCLUDE_HEADINGS   = 5
AUTOLINK_SUPPORT
      = YES
BUILTIN_STL_SUPPORT    = NO
CPP_CLI_SUPPORT        = NO
SIP_SUPPORT            = NO
IDL_PROPERTY_SUPPORT   = YES
DISTRIBUTE_GROUP_DOC   = NO
GROUP_NESTED_COMPOUNDS = NO
SUBGROUPING            = YES
INLINE_GROUPED_CLASSES = NO
INLINE_SIMPLE_STRUCTS  = NO
TYPEDEF_HIDES_STRUCT   = NO
LOOKUP_CACHE_SIZE      = 0
NUM_PROC_THREADS       = 1
EXTRACT_ALL            = NO
EXTRACT_PRIVATE        = NO
EXTRACT_PRIV_VIRTUAL   = NO
EXTRACT_PACKAGE        = NO
EXTRACT_STATIC         = NO
EXTRACT_LOCAL_CLASSES  = YES
EXTRACT_LOCAL_METHODS  = NO
EXTRACT_ANON_NSPACES   = NO
RESOLVE_UNNAMED_PARAMS = YES
HIDE_UNDOC_MEMBERS     = NO
HIDE_UNDOC_CLASSES     = NO
HIDE_FRIEND_COMPOUNDS  = NO
HIDE_IN_BODY_DOCS      = NO
INTERNAL_DOCS          = NO
CASE_SENSE_NAMES       = YES
HIDE_SCOPE_NAMES       = NO
HIDE_COMPOUND_REFERENCE= NO
SHOW_INCLUDE_FILES     = YES
SHOW_GROUPED_MEMB_INC  = NO
FORCE_LOCAL_INCLUDES   = NO
INLINE_INFO            = YES
SORT_MEMBER_DOCS       = YES
SORT_BRIEF_DOCS        = NO
SORT_MEMBERS_CTORS_1ST
 = NO
SORT_GROUP_NAMES       = NO
SORT_BY_SCOPE_NAME     = NO
```

```
STRICT_PROTO_MATCHING  = NO
GENERATE_TODOLIST      = YES
GENERATE_TESTLIST      = YES
GENERATE_BUGLIST       = YES
GENERATE_DEPRECATEDLIST= YES
ENABLED_SECTIONS       =
MAX_INITIALIZER_LINES  = 30
SHOW_USED_FILES        = YES
SHOW_FILES             = YES
SHOW_NAMESPACES        = YES
FILE_VERSION_FILTER    =
LAYOUT_FILE            =
CITE_BIB_FILES         =
QUIET                  = NO
WARNINGS               = YES
WARN_IF_UNDOCUMENTED   = YES
WARN_IF_DOC_ERROR      = YES
WARN_NO_PARAMDOC       = NO
WARN_AS_ERROR          = NO
WARN_FORMAT            = "$file:$line: $text"
WARN_LOGFILE           =
INPUT                  = ../../../src
INPUT_ENCODING         = UTF-8
FILE_PATTERNS          = *.c \
                         *.h
RECURSIVE              = NO
EXCLUDE                =
EXCLUDE_SYMLINKS       = NO
EXCLUDE_PATTERNS       =
EXCLUDE_SYMBOLS        = ___*
EXAMPLE_PATH           =
EXAMPLE_PATTERNS       = *
EXAMPLE_RECURSIVE
     = NO
IMAGE_PATH             =
INPUT_FILTER           =
FILTER_PATTERNS        =
FILTER_SOURCE_FILES    = NO
FILTER_SOURCE_PATTERNS =
USE_MDFILE_AS_MAINPAGE = YES
SOURCE_BROWSER         = NO
INLINE_SOURCES         = NO
STRIP_CODE_COMMENTS    = YES
REFERENCED_BY_RELATION = NO
REFERENCES_RELATION    = NO
REFERENCES_LINK_SOURCE = YES
SOURCE_TOOLTIPS        = YES
USE_HTAGS              = NO
```

```
VERBATIM_HEADERS       = YES
ALPHABETICAL_INDEX     = YES
IGNORE_PREFIX          =
GENERATE_HTML          = NO
HTML_OUTPUT            = html
HTML_FILE_EXTENSION    = .html
HTML_HEADER            =
HTML_FOOTER            =
HTML_STYLESHEET        =
HTML_EXTRA_STYLESHEET  =
HTML_EXTRA_FILES       =
HTML_COLORSTYLE_HUE    = 220
HTML_COLORSTYLE_SAT    = 100
HTML_COLORSTYLE_GAMMA  = 80
HTML_TIMESTAMP         = NO
HTML_DYNAMIC_MENUS     = YES
HTML_DYNAMIC_SECTIONS  = NO
HTML_INDEX_NUM_ENTRIES = 100
GENERATE_DOCSET        = NO
DOCSET_FEEDNAME        = "Doxygen generated docs"
DOCSET_BUNDLE_ID
      = org.doxygen.Project
DOCSET_PUBLISHER_ID    = org.doxygen.Publisher
DOCSET_PUBLISHER_NAME  = Publisher
GENERATE_HTMLHELP      = NO
CHM_FILE               =
HHC_LOCATION           =
GENERATE_CHI           = NO
CHM_INDEX_ENCODING     =
BINARY_TOC             = NO
TOC_EXPAND             = NO
GENERATE_QHP           = NO
QCH_FILE               =
QHP_NAMESPACE          = org.doxygen.Project
QHP_VIRTUAL_FOLDER     = doc
QHP_CUST_FILTER_NAME   =
QHP_CUST_FILTER_ATTRS  =
QHP_SECT_FILTER_ATTRS  =
QHG_LOCATION           =
GENERATE_ECLIPSEHELP   = NO
ECLIPSE_DOC_ID         = org.doxygen.Project
DISABLE_INDEX          = NO
GENERATE_TREEVIEW      = NO
ENUM_VALUES_PER_LINE   = 4
TREEVIEW_WIDTH         = 250
EXT_LINKS_IN_WINDOW    = NO
HTML_FORMULA_FORMAT    = png
FORMULA_FONTSIZE       = 10
```

```
FORMULA_TRANSPARENT    = YES
FORMULA_MACROFILE      =
USE_MATHJAX            = NO
MATHJAX_FORMAT         = HTML-CSS
MATHJAX_RELPATH        = https://cdn.jsdelivr.net/npm/mathjax@2
MATHJAX_EXTENSIONS
  =
MATHJAX_CODEFILE       =
SEARCHENGINE           = YES
SERVER_BASED_SEARCH    = NO
EXTERNAL_SEARCH        = NO
SEARCHENGINE_URL       =
SEARCHDATA_FILE        = searchdata.xml
EXTERNAL_SEARCH_ID     =
EXTRA_SEARCH_MAPPINGS  =
GENERATE_LATEX         = NO
LATEX_OUTPUT           = latex
LATEX_CMD_NAME         =
MAKEINDEX_CMD_NAME     = makeindex
LATEX_MAKEINDEX_CMD    = makeindex
COMPACT_LATEX          = NO
PAPER_TYPE             = a4
EXTRA_PACKAGES         =
LATEX_HEADER           =
LATEX_FOOTER           =
LATEX_EXTRA_STYLESHEET =
LATEX_EXTRA_FILES      =
PDF_HYPERLINKS         = YES
USE_PDFLATEX           = YES
LATEX_BATCHMODE        = NO
LATEX_HIDE_INDICES     = NO
LATEX_SOURCE_CODE      = NO
LATEX_BIB_STYLE        = plain
LATEX_TIMESTAMP        = NO
LATEX_EMOJI_DIRECTORY  =
GENERATE_RTF           = NO
RTF_OUTPUT             = rtf
COMPACT_RTF            = NO
RTF_HYPERLINKS         = NO
RTF_STYLESHEET_FILE    =
RTF_EXTENSIONS_FILE    =
RTF_SOURCE_CODE        = NO
GENERATE_MAN
   = NO
MAN_OUTPUT             = man
MAN_EXTENSION          = .3
MAN_SUBDIR             =
MAN_LINKS              = NO
```

```
GENERATE_XML           = YES
XML_OUTPUT             = xml
XML_PROGRAMLISTING     = YES
XML_NS_MEMB_FILE_SCOPE = NO
GENERATE_DOCBOOK       = NO
DOCBOOK_OUTPUT         = docbook
DOCBOOK_PROGRAMLISTING = NO
GENERATE_AUTOGEN_DEF   = NO
GENERATE_PERLMOD       = NO
PERLMOD_LATEX          = NO
PERLMOD_PRETTY         = YES
PERLMOD_MAKEVAR_PREFIX =
ENABLE_PREPROCESSING   = YES
MACRO_EXPANSION        = NO
EXPAND_ONLY_PREDEF     = YES
SEARCH_INCLUDES        = YES
INCLUDE_PATH           =
INCLUDE_FILE_PATTERNS  =
PREDEFINED             =
EXPAND_AS_DEFINED      =
SKIP_FUNCTION_MACROS   = NO
TAGFILES               =
GENERATE_TAGFILE       =
ALLEXTERNALS           = NO
EXTERNAL_GROUPS        = YES
EXTERNAL_PAGES         = YES
CLASS_DIAGRAMS         = YES
DIA_PATH               =
HIDE_UNDOC_RELATIONS   = YES
HAVE_DOT               = NO
DOT_NUM_THREADS        = 0
DOT_FONTNAME
 = Helvetica
DOT_FONTSIZE           = 10
DOT_FONTPATH           =
CLASS_GRAPH            = YES
COLLABORATION_GRAPH    = YES
GROUP_GRAPHS           = YES
UML_LOOK               = NO
UML_LIMIT_NUM_FIELDS   = 10
DOT_UML_DETAILS        = NO
DOT_WRAP_THRESHOLD     = 17
TEMPLATE_RELATIONS     = NO
INCLUDE_GRAPH          = YES
INCLUDED_BY_GRAPH      = YES
CALL_GRAPH             = NO
CALLER_GRAPH           = NO
GRAPHICAL_HIERARCHY    = YES
```

DIRECTORY_GRAPH = YES
DOT_IMAGE_FORMAT = png
INTERACTIVE_SVG = NO
DOT_PATH =
DOTFILE_DIRS =
MSCFILE_DIRS =
DIAFILE_DIRS =
PLANTUML_JAR_PATH =
PLANTUML_CFG_FILE =
PLANTUML_INCLUDE_PATH =
DOT_GRAPH_MAX_NODES = 50
MAX_DOT_GRAPH_DEPTH = 0
DOT_TRANSPARENT = NO
DOT_MULTI_TARGETS = NO
GENERATE_LEGEND = YES
DOT_CLEANUP = YES
decap_sanity # weird failure with decap_sanity_ns netns already existing, TBD
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Format: http://dep.debian.net/deps/dep5
Upstream-Name: calico
Source: http://github.com/projectcalico/felix

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======

This is the official home of the libbpf library.

*Please use this Github

repository for building and packaging libbpf
and when using it in your projects through Git submodule.*

Libbpf *authoritative source code* is developed as part of [bpf-next Linux source tree](https://kernel.googlesource.com/pub/scm/linux/kernel/git/bpf/bpf-next) under `tools/lib/bpf` subdirectory and is periodically synced to Github. As such, all the libbpf changes should be sent to [BPF mailing list](http://vger.kernel.org/vger-lists.html#bpf), please don't open PRs here unless you are changing Github-specific parts of libbpf (e.g., Github-specific Makefile).

Libbpf and general BPF usage questions
==========

Libbpf documentation can be found [here](https://libbpf.readthedocs.io/en/latest/api.html).
It's an ongoing effort and has ways to go, but please take a look and consider contributing as well.

Please check out [libbpf-bootstrap](https://github.com/libbpf/libbpf-bootstrap)
and [the companion blog post](https://nakryiko.com/posts/libbpf-bootstrap/)
for
the examples of building BPF applications with libbpf.
[libbpf-tools](https://github.com/iovisor/bcc/tree/master/libbpf-tools) are also
a good source of the real-world libbpf-based tracing tools.

See also ["BPF CO-RE reference guide"](https://nakryiko.com/posts/bpf-core-reference-guide/)
for the coverage of practical aspects of building BPF CO-RE applications and
["BPF CO-RE"](https://nakryiko.com/posts/bpf-portability-and-co-re/) for
general introduction into BPF portability issues and BPF CO-RE origins.

All general BPF questions, including kernel functionality, libbpf APIs and
their application, should be sent to bpf@vger.kernel.org mailing list. You can
subscribe to it [here](http://vger.kernel.org/vger-lists.html#bpf) and search
its archive [here](https://lore.kernel.org/bpf/). Please search the archive
before asking new questions. It very well might be that this was already
addressed or answered before.

bpf@vger.kernel.org is monitored by many more people and they will
happily try
to help you with whatever issue you have. This repository's PRs and issues
should be opened only for dealing with issues pertaining to specific way this
libbpf mirror repo is set up and organized.

Building libbpf
==========
libelf is an internal dependency of libbpf and thus it is required to link
against and must be installed on the system for applications to work.
pkg-config is used by default to find libelf, and the program called can be
overridden with `PKG_CONFIG`.

If using `pkg-config` at build time is not desired, it can be disabled by
setting `NO_PKG_CONFIG=1` when calling make.

To build both static libbpf.a and shared libbpf.so:
```bash
$ cd src
$ make
```

To build only static libbpf.a library in directory
build/ and install them together with libbpf headers in a staging directory
root/:
```bash
$ cd src
$ mkdir build root
$ BUILD_STATIC_ONLY=y OBJDIR=build DESTDIR=root make install
```

To build both static libbpf.a and shared libbpf.so against a custom libelf
dependency
 installed in /build/root/ and install them together with libbpf
headers in a build directory /build/root/:
```bash
$ cd src
$ PKG_CONFIG_PATH=/build/root/lib64/pkgconfig DESTDIR=/build/root make install
```

BPF CO-RE (Compile Once Run Everywhere)
==========

Libbpf supports building BPF CO-RE-enabled applications, which, in contrast to
[BCC](https://github.com/iovisor/bcc/), do not require Clang/LLVM runtime
being deployed to target servers and doesn't rely on kernel-devel headers
being available.

It does rely on kernel to be built with [BTF type
information](https://www.kernel.org/doc/html/latest/bpf/btf.html), though.
Some major Linux distributions come with kernel BTF already built in:
 - Fedora 31+
 - RHEL 8.2+
 - OpenSUSE Tumbleweed (in the next release, as of 2020-06-04)
 - Arch Linux (from kernel 5.7.1.arch1-1)
 - Manjaro (from kernel 5.4 if compiled after 2021-06-18)
 - Ubuntu 20.10
 - Debian 11 (amd64/arm64)

If your kernel

doesn't come with BTF built-in, you'll need to build custom
kernel. You'll need:
- `pahole` 1.16+ tool (part of `dwarves` package), which performs DWARF to
  BTF conversion;
- kernel built with `CONFIG_DEBUG_INFO_BTF=y` option;
- you can check if your kernel has BTF built-in by looking for
  `/sys/kernel/btf/vmlinux` file:

```shell
$ ls -la /sys/kernel/btf/vmlinux
-r--r--r--. 1 root root 3541561 Jun  2 18:16 /sys/kernel/btf/vmlinux
```

To develop and build BPF programs, you'll need Clang/LLVM 10+. The following
distributions have Clang/LLVM 10+ packaged by default:
- Fedora 32+
- Ubuntu 20.04+
- Arch Linux
- Ubuntu 20.10 (LLVM 11)
- Debian 11 (LLVM 11)
- Alpine 3.13+

Otherwise, please make sure to update it on your system.

The following resources are useful to understand what BPF CO-RE is and how to
use it:
- [BPF CO-RE reference guide](https://nakryiko.com/posts/bpf-core-reference-guide/)
- [BPF Portability and CO-RE](https://nakryiko.com/posts/bpf-portability-and-co-re/)
-
 [HOWTO: BCC to libbpf conversion](https://nakryiko.com/posts/bcc-to-libbpf-howto-guide/)
- [libbpf-tools in BCC repo](https://github.com/iovisor/bcc/tree/master/libbpf-tools)
 contain lots of real-world tools converted from BCC to BPF CO-RE. Consider
 converting some more to both contribute to the BPF community and gain some
 more experience with it.

Distributions
==========

Distributions packaging libbpf from this mirror:
- [Fedora](https://src.fedoraproject.org/rpms/libbpf)
- [Gentoo](https://packages.gentoo.org/packages/dev-libs/libbpf)
- [Debian](https://packages.debian.org/source/sid/libbpf)
- [Arch](https://archlinux.org/packages/core/x86_64/libbpf/)
- [Ubuntu](https://packages.ubuntu.com/source/impish/libbpf)
- [Alpine](https://pkgs.alpinelinux.org/packages?name=libbpf)

Benefits of packaging from the mirror over packaging from kernel sources:
- Consistent versioning across distributions.

- No ties to any specific kernel, transparent
handling of older kernels.
  Libbpf is designed to be kernel-agnostic and work across multitude of
  kernel versions. It has built-in mechanisms to gracefully handle older
  kernels, that are missing some of the features, by working around or
  gracefully degrading functionality. Thus libbpf is not tied to a specific
  kernel version and can/should be packaged and versioned independently.
- Continuous integration testing via
  [GitHub Actions](https://github.com/libbpf/libbpf/actions).
- Static code analysis via [LGTM](https://lgtm.com/projects/g/libbpf/libbpf)
  and [Coverity](https://scan.coverity.com/projects/libbpf).

Package dependencies of libbpf, package names may vary across distros:
- zlib
- libelf

[![libbpf distro packaging status](https://repology.org/badge/vertical-allrepos/libbpf.svg)](https://repology.org/project/libbpf/versions)

bpf-next to Github sync
==========

All the gory details of syncing can be found in `scripts/sync-kernel.sh`
script.
 See SYNC.md for instruction.

Some header files in this repo (`include/linux/*.h`) are reduced versions of
their counterpart files at
[bpf-next](https://git.kernel.org/pub/scm/linux/kernel/git/bpf/bpf-next.git/)'s
`tools/include/linux/*.h` to make compilation successful.

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Upstream-Name: networking-calico
Source: https://github.com/projectcalico/networking-calico/

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prefix=@PREFIX@
libdir=@LIBDIR@
includedir=${prefix}/include

Name: libbpf
Description: BPF library
Version: @VERSION@
Libs: -L${libdir} -lbpf
Requires.private: libelf zlib
Cflags: -I${includedir}
71b547f561247897a0a14f3082730156c0533fed
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INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
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POSSIBILITY OF SUCH DAMAGE.
The sample BIRD configuration in this directory is distributed under
GPLv3. See the file COPYING-v3 for details.
<picture>
 <source media="(prefers-color-scheme: dark)" srcset="assets/libbpf-logo-sideways-darkbg.png" width="40%">
 <img src="assets/libbpf-logo-sideways.png" width="40%">
</picture>

Libbpf sync
==========

Libbpf *authoritative source code* is developed as part of [bpf-next Linux source
tree](https://kernel.googlesource.com/pub/scm/linux/kernel/git/bpf/bpf-next) under
`tools/lib/bpf` subdirectory and is periodically synced to Github.

Most of the mundane mechanical things like bpf and bpf-next tree merge, Git
history transformation, cherry-picking relevant commits, re-generating
auto-generated headers, etc. are taken care by
[sync-kernel.sh script](https://github.com/libbpf/libbpf/blob/master/scripts/sync-kernel.sh).
But occasionally human needs to do few extra things to make everything work
nicely.

This document goes over the process of syncing libbpf sources from Linux repo
to this Github repository. Feel free to contribute fixes and additions if you
run into new problems not
 outlined here.

Setup expectations

Sync script has particular expectation of upstream Linux repo setup. It
expects that current HEAD of that repo points to bpf-next's master branch and

that there is a separate local branch pointing to bpf tree's master branch.
This is important, as the script will automatically merge their histories for
the purpose of libbpf sync.

Below, we assume that Linux repo is located at `~/linux`, it's current head is
at latest `bpf-next/master`, and libbpf's Github repo is located at
`~/libbpf`, checked out to latest commit on `master` branch. It doesn't matter
from where to run `sync-kernel.sh` script, but we'll be running it from inside
`~/libbpf`.

```
$ cd ~/linux && git remote -v | grep -E '^(bpf|bpf-next)'
bpf     https://git.kernel.org/pub/scm/linux/kernel/git/bpf/bpf.git (fetch)
bpf     ssh://git@gitolite.kernel.org/pub/scm/linux/kernel/git/bpf/bpf.git
(push)
bpf-next
https://git.kernel.org/pub/scm/linux/kernel/git/bpf/bpf-next.git
 (fetch)
bpf-next
ssh://git@gitolite.kernel.org/pub/scm/linux/kernel/git/bpf/bpf-next.git (push)
$ git branch -vv | grep -E '^? (master|bpf-master)'
* bpf-master                    2d311f480b52 [bpf/master] riscv, bpf: Fix patch_text implicit declaration
 master                         c8ee37bde402 [bpf-next/master] libbpf: Fix bpf_xdp_query() in old kernels
$ git checkout bpf-master && git pull && git checkout master && git pull
...
$ git log --oneline -n1
c8ee37bde402 (HEAD -> master, bpf-next/master) libbpf: Fix bpf_xdp_query() in old kernels
$ cd ~/libbpf && git checkout master && git pull
Your branch is up to date with 'libbpf/master'.
Already up to date.
```

Running setup script

First step is to always run `sync-kernel.sh` script. It expects three arguments:

```
$ scripts/sync-kernel.sh <libbpf-repo> <kernel-repo> <bpf-branch>
```

Note, that we'll store script's entire output in `/tmp/libbpf-sync.txt` and
put it into PR summary later
 on. **Please store scripts output and include it
in PR summary for others to check for anything unexpected and suspicious.**

```
$ scripts/sync-kernel.sh ~/libbpf ~/linux bpf-master | tee /tmp/libbpf-sync.txt
```

```
Dumping existing libbpf commit signatures...
WORKDIR:          /home/andriin/libbpf
LINUX REPO:       /home/andriin/linux
LIBBPF REPO:      /home/andriin/libbpf
...
```

Most of the time this will go very uneventful. One expected case when sync script might require user intervention is if `bpf` tree has some libbpf fixes, which is nowadays not a very frequent occurence. But if that happens, script will show you a diff between expected state as of latest bpf-next and synced Github repo state. And will ask if these changes look good. Please use your best judgement to verify that differences are indeed from expected `bpf` tree fixes. E.g., it might look like below:

```
Comparing list of files...
Comparing file contents...
--- /home/andriin/linux/include/uapi/linux/netdev.h     2023-02-27
 16:54:42.270583372 -0800
+++ /home/andriin/libbpf/include/uapi/linux/netdev.h    2023-02-27 16:54:34.615530796 -0800
@@ -19,7 +19,7 @@
 * @NETDEV_XDP_ACT_XSK_ZEROCOPY: This feature informs if netdev supports AF_XDP
 *   in zero copy mode.
 * @NETDEV_XDP_ACT_HW_OFFLOAD: This feature informs if netdev supports XDP hw
- *   oflloading.
+ *   offloading.
 * @NETDEV_XDP_ACT_RX_SG: This feature informs if netdev implements non-linear
 *   XDP buffer support in the driver napi callback.
 * @NETDEV_XDP_ACT_NDO_XMIT_SG: This feature informs if netdev implements
/home/andriin/linux/include/uapi/linux/netdev.h and /home/andriin/libbpf/include/uapi/linux/netdev.h are different!
Unfortunately, there are some inconsistencies, please double check.
Does everything look good? [y/N]:
```

If it looks sensible and expected, type `y` and script will proceed.

If sync is successful, your `~/linux` repo will be left in original state on the original HEAD commit. `~/libbpf` repo will now be on a new branch, named `libbpf-sync-<timestamp>` (e.g., `libbpf-sync-2023-02-28T00-53-40.072Z`).

Push this branch into your fork of `libbpf/libbpf` Github repo and create a PR:

```
$ git push --set-upstream origin libbpf-sync-2023-02-28T00-53-40.072Z
Enumerating objects: 130, done.
Counting objects: 100% (115/115), done.
```

```
Delta compression using up to 80 threads
Compressing objects: 100% (28/28), done.
Writing objects: 100% (32/32), 5.57 KiB | 1.86 MiB/s, done.
Total 32 (delta 21), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (21/21), completed with 9 local objects.
remote:
remote: Create a pull request for 'libbpf-sync-2023-02-28T00-53-40.072Z' on GitHub by visiting:
remote:      https://github.com/anakryiko/libbpf/pull/new/libbpf-sync-2023-02-28T00-53-40.072Z
remote:
To github.com:anakryiko/libbpf.git
* [new branch]              libbpf-sync-2023-02-28T00-53-40.072Z -> libbpf-sync-2023-02-28T00-53-40.072Z
Branch 'libbpf-sync-2023-02-28T00-53-40.072Z' set up to track
 remote branch 'libbpf-sync-2023-02-28T00-53-40.072Z' from 'origin'.
```

**Please, adjust PR name to have a properly looking timestamp. Libbpf
maintainers will be very thankful for that!**

By default Github will turn above branch name into PR with subject "Libbpf sync
2023 02 28 t00 53 40.072 z". Please fix this into a proper timestamp, e.g.:
"Libbpf sync 2023-02-28T00:53:40.072Z". Thank you!

**Please don't forget to paste contents of /tmp/libbpf-sync.txt into PR
summary!**

Once PR is created, libbpf CI will run a bunch of tests to check that
everything is good. In simple cases that would be all you'd need to do. In more
complicated cases some extra adjustments might be necessary.

Please, keep naming and style consistent. Prefix CI-related fixes with `ci: `
prefix. If you had to modify sync script, prefix it with `sync: `. Also make
sure that each such commit has `Signed-off-by: Your Full Name <your@email.com>`,
just like you'd do that for Linux upstream patch. Libbpf closely
 follows kernel
conventions and styling, so please help maintaining that.

Including new sources

If entirely new source files (typically `*.c`) were added to the library in the
kernel repository, it may be necessary to add these to the build system
manually (you may notice linker errors otherwise), because the script cannot
handle such changes automatically. To that end, edit `src/Makefile` as
necessary. Commit
[c2495832ced4](https://github.com/libbpf/libbpf/commit/c2495832ced4239bcd376b9954db38a6addd89ca)
is an example of how to go about doing that.

Similarly, if new public API header files were added, the `Makefile` will need

to be adjusted as well.

Updating allow/deny lists

Libbpf CI intentionally runs a subset of latest BPF selftests on old kernel
(4.9 and 5.5, currently). It happens from time to time that some tests that
previously were successfully running on old kernels now don't, typically due to
reliance on some freshly added
 kernel feature. It might look something like this in [CI
logs](https://github.com/libbpf/libbpf/actions/runs/4206303272/jobs/7299609578#step:4:2733):

```
 All error logs:
 serial_test_xdp_info:FAIL:get_xdp_none errno=2
 #283     xdp_info:FAIL
 Summary: 49/166 PASSED, 5 SKIPPED, 1 FAILED
```

In such case we can either work with upstream to fix test to be compatible with
old kernels, or we'll have to add a test into a denylist (or remove it from
allowlist, like was [done](https://github.com/libbpf/libbpf/commit/ea284299025bf85b85b4923191de6463cd43ccd6)
for the case above).

```
$ find . -name '*LIST*'
./ci/vmtest/configs/ALLOWLIST-4.9.0
./ci/vmtest/configs/DENYLIST-5.5.0
./ci/vmtest/configs/DENYLIST-latest.s390x
./ci/vmtest/configs/DENYLIST-latest
./ci/vmtest/configs/ALLOWLIST-5.5.0
```

Please determine which tests need to be added/removed from which list. And then
add that as a separate commit. **Please keep using the same branch name, so
that the same PR can be updated.** There
 is no need to open new PRs for each
such fix.

Regenerating vmlinux.h header

To compile latest BPF selftests against old kernels, we check in pre-generated
[vmlinux.h](https://github.com/libbpf/libbpf/blob/master/.github/actions/build-selftests/vmlinux.h)
header file, located at `.github/actions/build-selftests/vmlinux.h`, which
contains type definitions from latest upstream kernel. When after libbpf sync
upstream BPF selftests require new kernel types, we'd need to regenerate
`vmlinux.h` and check it in as well.

This will looks something like this in [CI
logs](https://github.com/libbpf/libbpf/actions/runs/4198939244/jobs/7283214243#step:4:1903):

```
 In file included from progs/test_spin_lock_fail.c:5:
 /home/runner/work/libbpf/libbpf/.kernel/tools/testing/selftests/bpf/bpf_experimental.h:73:53: error: declaration of
'struct bpf_rb_root' will not be visible outside of this function [-Werror,-Wvisibility]
 extern struct bpf_rb_node *bpf_rbtree_remove(struct
 bpf_rb_root *root,
                                                ^
 /home/runner/work/libbpf/libbpf/.kernel/tools/testing/selftests/bpf/bpf_experimental.h:81:35: error: declaration of
'struct bpf_rb_root' will not be visible outside of this function [-Werror,-Wvisibility]
 extern void bpf_rbtree_add(struct bpf_rb_root *root, struct bpf_rb_node *node,
                                   ^
 /home/runner/work/libbpf/libbpf/.kernel/tools/testing/selftests/bpf/bpf_experimental.h:90:52: error: declaration of
'struct bpf_rb_root' will not be visible outside of this function [-Werror,-Wvisibility]
 extern struct bpf_rb_node *bpf_rbtree_first(struct bpf_rb_root *root) __ksym;
                                                ^
 3 errors generated.
 make: *** [Makefile:572:
/home/runner/work/libbpf/libbpf/.kernel/tools/testing/selftests/bpf/test_spin_lock_fail.bpf.o] Error 1
 make: *** Waiting for unfinished jobs....
 Error: Process completed with exit code 2.
```

You'll
 need to build latest upstream kernel from `bpf-next` tree, using BPF
selftest configs. Concat arch-agnostic and arch-specific configs, build kernel,
then use bpftool to dump `vmlinux.h`:

```
$ cd ~/linux
$ cat tools/testing/selftests/bpf/config \
  tools/testing/selftests/bpf/config.x86_64 > .config
$ make -j$(nproc) olddefconfig all
...
$ bpftool btf dump file ~/linux/vmlinux format c > ~/libbpf/.github/actions/build-selftests/vmlinux.h
$ cd ~/libbpf && git add . && git commit -s
```

Check in generated `vmlinux.h`, don't forget to use `ci: ` commit prefix, add
it on top of sync commits. Push to Github and let libbpf CI do the checking for
you. See [this commit](https://github.com/libbpf/libbpf/commit/34212c94a64df8eeb1dd5d064630a65e1dfd4c20)
for reference.

Troubleshooting

If something goes wrong and sync script exits early or is terminated early by user, you might end up with `~/linux` repo on temporary sync-related branch. Don't worry, though, sync script never destroys repo state, it follows "copy-on-write" philosophy and creates new branches where necessary. So it's very easy to restore previous state. So if anything goes wrong, it's easy to start fresh:

```
$ git branch | grep -E 'libbpf-.*Z'
 libbpf-baseline-2023-02-28T00-43-35.146Z
 libbpf-bpf-baseline-2023-02-28T00-43-35.146Z
 libbpf-bpf-tip-2023-02-28T00-43-35.146Z
 libbpf-squash-base-2023-02-28T00-43-35.146Z
* libbpf-squash-tip-2023-02-28T00-43-35.146Z
$ git cherry-pick --abort
$ git checkout master && git branch | grep -E 'libbpf-.*Z' | xargs git br -D
Switched to branch 'master'
Your branch is up to date with 'bpf-next/master'.
Deleted branch libbpf-baseline-2023-02-28T00-43-35.146Z (was 951bce29c898).
Deleted branch libbpf-bpf-baseline-2023-02-28T00-43-35.146Z (was 3a70e0d4c9d7).
Deleted branch libbpf-bpf-tip-2023-02-28T00-43-35.146Z (was 2d311f480b52).
Deleted branch libbpf-squash-base-2023-02-28T00-43-35.146Z (was 957f109ef883).
Deleted branch libbpf-squash-tip-2023-02-28T00-43-35.146Z
 (was be66130d2339).
Deleted branch libbpf-tip-2023-02-28T00-43-35.146Z (was 2d311f480b52).
```

You might need to do the same for your `~/libbpf` repo sometimes, depending at which stage sync script was terminated.

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1.5237 jaraco-functools 4.1.0

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package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
 Plugin     string
 Option     string
 Severity   string // 'deprecated', 'removed', or 'unsupported'
 ReplacedBy string
 Additional string
 Version    string
}

func (n *Notice) ToString() string {
 s := ""
 if n.Option == "" {
  s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
 } else {
  s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
 }
 if n.Severity == SevUnsupported {
  s += "is unsupported by this migration tool in " + n.Version + "."
 } else if n.Severity == SevNewDefault {
  s += "is added as a default in " + n.Version + "."
 } else {
  s += "is " + n.Severity + " in " + n.Version + "."
 }
 if n.ReplacedBy != "" {
  s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
 }
 if n.Additional != "" {
  s += " " + n.Additional
 }
 return s
}

const (
 // The following statuses are used to indicate the state of support/deprecation in a given release.
 SevDeprecated  = "deprecated"
```

// deprecated, but still completely functional
SevIgnored = "ignored" // if included in the corefile, it will be ignored by CoreDNS
SevRemoved = "removed" // completely removed from CoreDNS, and would cause CoreDNS to exit if present in the Corefile
SevNewDefault = "newdefault" // added to the default corefile. CoreDNS may not function properly if it is not present in the corefile.
SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool

// The following statuses are used for selecting/filtering notifications
SevAll = "all" // show all statuses
)
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==========
The common/types/pb/equal.go modification of proto.Equal logic
==========
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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}
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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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==========

The common/types/pb/equal.go modification of proto.Equal logic

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1.5246 xz 5.6.3-r0

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```
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1.5247 bash 5.2.37-r0

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// Changes may cause incorrect behavior and will be lost if the code is regenerated.

package fake

import (
 "context"
```

```
 "errors"
 "fmt"
 azfake "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake/server"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
 "net/http"
 "net/url"
 "regexp"
)

// LicensesServer is a fake server for instances of the armhybridcompute.LicensesClient type.
type LicensesServer struct {
 // BeginCreateOrUpdate is the fake for method LicensesClient.BeginCreateOrUpdate
 // HTTP status codes to indicate success:
 http.StatusOK
 BeginCreateOrUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
armhybridcompute.License, options *armhybridcompute.LicensesClientBeginCreateOrUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse], errResp
azfake.ErrorResponder)

 // BeginDelete is the fake for method LicensesClient.BeginDelete
 // HTTP status codes to indicate success: http.StatusOK, http.StatusNoContent
 BeginDelete func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientBeginDeleteOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse], errResp azfake.ErrorResponder)

 // Get is the fake for method LicensesClient.Get
 // HTTP status codes to indicate success: http.StatusOK
 Get func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientGetOptions) (resp
azfake.Responder[armhybridcompute.LicensesClientGetResponse],
 errResp azfake.ErrorResponder)

 // NewListByResourceGroupPager is the fake for method LicensesClient.NewListByResourceGroupPager
 // HTTP status codes to indicate success: http.StatusOK
 NewListByResourceGroupPager func(resourceGroupName string, options
*armhybridcompute.LicensesClientListByResourceGroupOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse])

 // NewListBySubscriptionPager is the fake for method LicensesClient.NewListBySubscriptionPager
 // HTTP status codes to indicate success: http.StatusOK
 NewListBySubscriptionPager func(options *armhybridcompute.LicensesClientListBySubscriptionOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse])

 // BeginUpdate is the fake for method LicensesClient.BeginUpdate
 // HTTP status codes to indicate success: http.StatusOK
```

```
 BeginUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
 armhybridcompute.LicenseUpdate, options *armhybridcompute.LicensesClientBeginUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse], errResp azfake.ErrorResponder)
}

// NewLicensesServerTransport creates a new instance of LicensesServerTransport with the provided
implementation.
// The returned LicensesServerTransport instance is connected to an instance of armhybridcompute.LicensesClient
via the
// azcore.ClientOptions.Transporter field in the client's constructor parameters.
func NewLicensesServerTransport(srv *LicensesServer) *LicensesServerTransport {
 return &LicensesServerTransport{
  srv:                    srv,
  beginCreateOrUpdate:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]](),
  beginDelete:              newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]](),
  newListByResourceGroupPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]](),
  newListBySubscriptionPager:
  newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]](),
  beginUpdate:              newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]](),
 }
}

// LicensesServerTransport connects instances of armhybridcompute.LicensesClient to instances of LicensesServer.
// Don't use this type directly, use NewLicensesServerTransport instead.
type LicensesServerTransport struct {
 srv                    *LicensesServer
 beginCreateOrUpdate
*tracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]]
 beginDelete              *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]]
 newListByResourceGroupPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]]
 newListBySubscriptionPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]]
 beginUpdate
             *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]]
}

// Do implements the policy.Transporter interface for LicensesServerTransport.
func (l *LicensesServerTransport) Do(req *http.Request) (*http.Response, error) {
 rawMethod := req.Context().Value(runtime.CtxAPINameKey{})
 method, ok := rawMethod.(string)
 if !ok {
  return nil, nonRetriableError{errors.New("unable to dispatch request, missing value for CtxAPINameKey")}
 }

 var resp *http.Response
```

```
 var err error

 switch method {
 case "LicensesClient.BeginCreateOrUpdate":
  resp, err = l.dispatchBeginCreateOrUpdate(req)
 case "LicensesClient.BeginDelete":
  resp, err = l.dispatchBeginDelete(req)
 case "LicensesClient.Get":
  resp, err = l.dispatchGet(req)
 case "LicensesClient.NewListByResourceGroupPager":
  resp, err = l.dispatchNewListByResourceGroupPager(req)
 case "LicensesClient.NewListBySubscriptionPager":
  resp, err = l.dispatchNewListBySubscriptionPager(req)
 case
 "LicensesClient.BeginUpdate":
  resp, err = l.dispatchBeginUpdate(req)
 default:
  err = fmt.Errorf("unhandled API %s", method)
 }

 if err != nil {
  return nil, err
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginCreateOrUpdate(req *http.Request) (*http.Response, error) {
 if l.srv.BeginCreateOrUpdate == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginCreateOrUpdate not implemented")}
 }
 beginCreateOrUpdate := l.beginCreateOrUpdate.get(req)
 if beginCreateOrUpdate == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body,
 err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
  if err != nil {
   return nil, err
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
```

```
  return nil, err
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
 if err != nil {
  return nil, err
 }
 respr, errRespr := l.srv.BeginCreateOrUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body,
nil)
 if respErr := server.GetError(errRespr, req); respErr != nil {
  return nil, respErr
 }
 beginCreateOrUpdate = &respr
 l.beginCreateOrUpdate.add(req, beginCreateOrUpdate)
}

resp, err := server.PollerResponderNext(beginCreateOrUpdate, req)
if err != nil {
 return nil, err
}

if !contains([]int{http.StatusOK}, resp.StatusCode) {
 l.beginCreateOrUpdate.remove(req)
 return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
}
if
!server.PollerResponderMore(beginCreateOrUpdate) {
 l.beginCreateOrUpdate.remove(req)
}

return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginDelete(req *http.Request) (*http.Response, error) {
if l.srv.BeginDelete == nil {
 return nil, &nonRetriableError{errors.New("fake for method BeginDelete not implemented")}
}
beginDelete := l.beginDelete.get(req)
if beginDelete == nil {
 const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
 regex := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 3 {
  return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
```

```
 if err != nil {
  return
nil, err
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
 if err != nil {
  return nil, err
 }
 respr, errRespr := l.srv.BeginDelete(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
 if respErr := server.GetError(errRespr, req); respErr != nil {
  return nil, respErr
 }
 beginDelete = &respr
 l.beginDelete.add(req, beginDelete)
}

resp, err := server.PollerResponderNext(beginDelete, req)
if err != nil {
 return nil, err
}

if !contains([]int{http.StatusOK, http.StatusNoContent}, resp.StatusCode) {
 l.beginDelete.remove(req)
 return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK,
http.StatusNoContent", resp.StatusCode)}
}
if !server.PollerResponderMore(beginDelete) {
 l.beginDelete.remove(req)
}

return resp, nil
}

func (l *LicensesServerTransport) dispatchGet(req *http.Request) (*http.Response, error) {
 if l.srv.Get == nil {
  return nil, &nonRetriableError{errors.New("fake
 for method Get not implemented")}
 }
 const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
 regex := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 3 {
  return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
 if err != nil {
```

```
 return nil, err
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
 if err != nil {
  return nil, err
 }
 respr, errRespr := l.srv.Get(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
 if respErr := server.GetError(errRespr, req); respErr != nil {
  return nil, respErr
 }
 respContent := server.GetResponseContent(respr)
 if
 !contains([]int{http.StatusOK}, respContent.HTTPStatus) {
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
respContent.HTTPStatus)}
 }
 resp, err := server.MarshalResponseAsJSON(respContent, server.GetResponse(respr).License, req)
 if err != nil {
  return nil, err
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListByResourceGroupPager(req *http.Request) (*http.Response,
error) {
 if l.srv.NewListByResourceGroupPager == nil {
  return nil, &nonRetriableError{errors.New("fake for method NewListByResourceGroupPager not implemented")}
 }
 newListByResourceGroupPager := l.newListByResourceGroupPager.get(req)
 if newListByResourceGroupPager == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
  regex := regexp.MustCompile(regexStr)
  matches :=
 regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 2 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return nil, err
  }
  resp := l.srv.NewListByResourceGroupPager(resourceGroupNameParam, nil)
  newListByResourceGroupPager = &resp
  l.newListByResourceGroupPager.add(req, newListByResourceGroupPager)
  server.PagerResponderInjectNextLinks(newListByResourceGroupPager, req, func(page
*armhybridcompute.LicensesClientListByResourceGroupResponse, createLink func() string) {
```

```
  page.NextLink = to.Ptr(createLink())
 })
 }
 resp, err := server.PagerResponderNext(newListByResourceGroupPager, req)
 if err != nil {
  return nil, err
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.newListByResourceGroupPager.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values
 are http.StatusOK", resp.StatusCode)}
 }
 if !server.PagerResponderMore(newListByResourceGroupPager) {
  l.newListByResourceGroupPager.remove(req)
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListBySubscriptionPager(req *http.Request) (*http.Response, error)
{
 if l.srv.NewListBySubscriptionPager == nil {
  return nil, &nonRetriableError{errors.New("fake for method NewListBySubscriptionPager not implemented")}
 }
 newListBySubscriptionPager := l.newListBySubscriptionPager.get(req)
 if newListBySubscriptionPager == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 1 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resp := l.srv.NewListBySubscriptionPager(nil)
  newListBySubscriptionPager = &resp
  l.newListBySubscriptionPager.add(req,
 newListBySubscriptionPager)
  server.PagerResponderInjectNextLinks(newListBySubscriptionPager, req, func(page
*armhybridcompute.LicensesClientListBySubscriptionResponse, createLink func() string) {
   page.NextLink = to.Ptr(createLink())
  })
 }
 resp, err := server.PagerResponderNext(newListBySubscriptionPager, req)
 if err != nil {
  return nil, err
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.newListBySubscriptionPager.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
```

```
resp.StatusCode)}
 }
 if !server.PagerResponderMore(newListBySubscriptionPager) {
  l.newListBySubscriptionPager.remove(req)
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginUpdate(req *http.Request) (*http.Response, error) {
 if l.srv.BeginUpdate == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginUpdate not implemented")}
 }
 beginUpdate := l.beginUpdate.get(req)
 if
 beginUpdate == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body, err := server.UnmarshalRequestAsJSON[armhybridcompute.LicenseUpdate](req)
  if err != nil {
   return nil, err
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body, nil)
  if respErr := server.GetError(errRespr,
 req); respErr != nil {
   return nil, respErr
  }
  beginUpdate = &respr
  l.beginUpdate.add(req, beginUpdate)
 }

 resp, err := server.PollerResponderNext(beginUpdate, req)
 if err != nil {
  return nil, err
 }
```

```
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.beginUpdate.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginUpdate) {
  l.beginUpdate.remove(req)
 }

 return resp, nil
}
//go:build go1.18
// +build go1.18

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// Licensed under the MIT License. See License.txt in the project root for license information.
// Code generated by Microsoft (R) AutoRest Code Generator. DO NOT EDIT.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.

package armhybridcompute

import (
 "context"
 "errors"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/arm"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/policy"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "net/http"
 "net/url"
 "strings"
)

// LicensesClient contains the methods for the Licenses group.
// Don't use this type directly, use NewLicensesClient() instead.
type LicensesClient struct {
 internal       *arm.Client
 subscriptionID string
}

// NewLicensesClient creates a new instance of LicensesClient with the specified values.
//   - subscriptionID - The ID of the target
 subscription.
//   - credential - used to authorize requests. Usually a credential from azidentity.
//   - options - pass nil to accept the default values.
func NewLicensesClient(subscriptionID string, credential azcore.TokenCredential, options *arm.ClientOptions)
(*LicensesClient, error) {
```

```
 cl, err := arm.NewClient(moduleName, moduleVersion, credential, options)
 if err != nil {
  return nil, err
 }
 client := &LicensesClient{
  subscriptionID: subscriptionID,
  internal:       cl,
 }
 return client, nil
}

// BeginCreateOrUpdate - The operation to create or update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-05-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - parameters - Parameters supplied to the Create license operation.
//   - options - LicensesClientBeginCreateOrUpdateOptions contains the optional parameters
 for the LicensesClient.BeginCreateOrUpdate
//     method.
func (client *LicensesClient) BeginCreateOrUpdate(ctx context.Context, resourceGroupName string, licenseName
string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions)
(*runtime.Poller[LicensesClientCreateOrUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.createOrUpdate(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// CreateOrUpdate - The operation to create or update a license.
// If the
 operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-05-20-preview
func (client *LicensesClient) createOrUpdate(ctx context.Context, resourceGroupName string, licenseName string,
```

```
parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginCreateOrUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.createOrUpdateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// createOrUpdateCreateRequest creates
 the CreateOrUpdate request.
func (client *LicensesClient) createOrUpdateCreateRequest(ctx context.Context, resourceGroupName string,
licenseName string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*policy.Request,
error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx,
 http.MethodPut, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-05-20-preview")
```

```
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}

// BeginDelete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-05-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientBeginDeleteOptions contains the optional parameters for the
LicensesClient.BeginDelete method.
func (client *LicensesClient) BeginDelete(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*runtime.Poller[LicensesClientDeleteResponse],
 error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.deleteOperation(ctx, resourceGroupName, licenseName, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientDeleteResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientDeleteResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// Delete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-05-20-preview
func (client *LicensesClient) deleteOperation(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*http.Response, error) {
 var err error
 const
 operationName = "LicensesClient.BeginDelete"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
```

```
 defer func() { endSpan(err) }()
 req, err := client.deleteCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK, http.StatusNoContent) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// deleteCreateRequest creates the Delete request.
func (client *LicensesClient) deleteCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientBeginDeleteOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if
 client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodDelete, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-05-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// Get - Retrieves information about the view of a license.
//
```

```
 If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-05-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientGetOptions contains the optional parameters for the LicensesClient.Get method.
func (client *LicensesClient) Get(ctx context.Context, resourceGroupName string, licenseName string, options
*LicensesClientGetOptions) (LicensesClientGetResponse, error) {
 var err error
 const operationName = "LicensesClient.Get"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.getCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return LicensesClientGetResponse{}, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil
 {
  return LicensesClientGetResponse{}, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return LicensesClientGetResponse{}, err
 }
 resp, err := client.getHandleResponse(httpResp)
 return resp, err
}

// getCreateRequest creates the Get request.
func (client *LicensesClient) getCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientGetOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if
 licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
```

```
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-05-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// getHandleResponse handles the Get response.
func (client *LicensesClient) getHandleResponse(resp *http.Response) (LicensesClientGetResponse, error) {
 result := LicensesClientGetResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.License); err != nil {
  return LicensesClientGetResponse{}, err
 }
 return result, nil
}

// NewListByResourceGroupPager - The operation to get all licenses of a non-Azure machine
//
// Generated from
 API version 2024-05-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - options - LicensesClientListByResourceGroupOptions contains the optional parameters for the
LicensesClient.NewListByResourceGroupPager
//     method.
func (client *LicensesClient) NewListByResourceGroupPager(resourceGroupName string, options
*LicensesClientListByResourceGroupOptions) *runtime.Pager[LicensesClientListByResourceGroupResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListByResourceGroupResponse]{
  More: func(page LicensesClientListByResourceGroupResponse) bool {
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
  Fetcher: func(ctx context.Context, page *LicensesClientListByResourceGroupResponse)
(LicensesClientListByResourceGroupResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListByResourceGroupPager")
   nextLink := ""
   if page != nil {
    nextLink = *page.NextLink
   }
   resp,
 err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
    return client.listByResourceGroupCreateRequest(ctx, resourceGroupName, options)
   }, nil)
   if err != nil {
```

```
    return LicensesClientListByResourceGroupResponse{}, err
   }
   return client.listByResourceGroupHandleResponse(resp)
  },
  Tracer: client.internal.Tracer(),
 })
}

// listByResourceGroupCreateRequest creates the ListByResourceGroup request.
func (client *LicensesClient) listByResourceGroupCreateRequest(ctx context.Context, resourceGroupName string,
options *LicensesClientListByResourceGroupOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es"
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if
 client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-05-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// listByResourceGroupHandleResponse handles the ListByResourceGroup response.
func (client *LicensesClient) listByResourceGroupHandleResponse(resp *http.Response)
(LicensesClientListByResourceGroupResponse, error) {
 result := LicensesClientListByResourceGroupResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListByResourceGroupResponse{}, err
 }
 return
 result, nil
}

// NewListBySubscriptionPager - The operation to get all licenses of a non-Azure machine
//
// Generated from API version 2024-05-20-preview
```

```
//   - options - LicensesClientListBySubscriptionOptions contains the optional parameters for the
LicensesClient.NewListBySubscriptionPager
//     method.
func (client *LicensesClient) NewListBySubscriptionPager(options *LicensesClientListBySubscriptionOptions)
*runtime.Pager[LicensesClientListBySubscriptionResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListBySubscriptionResponse]{
  More: func(page LicensesClientListBySubscriptionResponse) bool {
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
  Fetcher: func(ctx context.Context, page *LicensesClientListBySubscriptionResponse)
(LicensesClientListBySubscriptionResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListBySubscriptionPager")
   nextLink := ""
   if page != nil {
    nextLink = *page.NextLink
   }
   resp,
 err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
    return client.listBySubscriptionCreateRequest(ctx, options)
   }, nil)
   if err != nil {
    return LicensesClientListBySubscriptionResponse{}, err
   }
   return client.listBySubscriptionHandleResponse(resp)
  },
  Tracer: client.internal.Tracer(),
 })
}

// listBySubscriptionCreateRequest creates the ListBySubscription request.
func (client *LicensesClient) listBySubscriptionCreateRequest(ctx context.Context, options
*LicensesClientListBySubscriptionOptions) (*policy.Request, error) {
 urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/licenses"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet,
 runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-05-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
```

```
}

// listBySubscriptionHandleResponse handles the ListBySubscription response.
func (client *LicensesClient) listBySubscriptionHandleResponse(resp *http.Response)
(LicensesClientListBySubscriptionResponse, error) {
 result := LicensesClientListBySubscriptionResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListBySubscriptionResponse{}, err
 }
 return result, nil
}

// BeginUpdate - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-05-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName
 - The name of the license.
//   - parameters - Parameters supplied to the Update license operation.
//   - options - LicensesClientBeginUpdateOptions contains the optional parameters for the
LicensesClient.BeginUpdate method.
func (client *LicensesClient) BeginUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions)
(*runtime.Poller[LicensesClientUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.update(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientUpdateResponse]{
   Tracer:
 client.internal.Tracer(),
  })
 }
}

// Update - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-05-20-preview
```

```
func (client *LicensesClient) update(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.updateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return
 nil, err
 }
 return httpResp, nil
}

// updateCreateRequest creates the Update request.
func (client *LicensesClient) updateCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}",
 url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodPatch, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-05-20-preview")
```

```
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}
```

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```
//go:build go1.18
// +build go1.18

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// Code generated by Microsoft (R) AutoRest Code Generator.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.
// DO NOT EDIT.

package armhybridcompute_test

import (
 "context"
 "log"

 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/azidentity"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
)

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/b574e2a41acda14a90ef237006e8bbdda2b63c63/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-05-20-preview/examples/license/License_CreateOrUpdate.json
func ExampleLicensesClient_BeginCreateOrUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil
 {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginCreateOrUpdate(ctx, "myResourceGroup", "{licenseName}",
armhybridcompute.License{
  Location: to.Ptr("eastus2euap"),
  Properties: &armhybridcompute.LicenseProperties{
   LicenseDetails: &armhybridcompute.LicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors: to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
```

```
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx,
 nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](2),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID:
 to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/b574e2a41acda14a90ef237006e8bbdda2b63c63/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-05-20-preview/examples/license/License_Update.json
func ExampleLicensesClient_BeginUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
```

```
 }
 poller, err := clientFactory.NewLicensesClient().BeginUpdate(ctx,
 "myResourceGroup", "{licenseName}", armhybridcompute.LicenseUpdate{
  Properties: &armhybridcompute.LicenseUpdateProperties{
   LicenseDetails: &armhybridcompute.LicenseUpdatePropertiesLicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors: to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please
 pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/lice
nses/{licenseName}"),
 //  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](8),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //
  },
 // }
```

```
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/b574e2a41acda14a90ef237006e8bbdda2b63c63/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-05-20-preview/examples/license/License_Get.json
func ExampleLicensesClient_Get() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 res, err := clientFactory.NewLicensesClient().Get(ctx, "myResourceGroup", "{licenseName}", nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would
 look as follows. Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](8),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //
   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
```

```
specs/blob/b574e2a41acda14a90ef237006e8bbdda2b63c63/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-05-20-preview/examples/license/License_Delete.json
func ExampleLicensesClient_BeginDelete() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginDelete(ctx, "myResourceGroup", "{licenseName}", nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 _, err = poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
}

// Generated from example
 definition: https://github.com/Azure/azure-rest-api-
specs/blob/b574e2a41acda14a90ef237006e8bbdda2b63c63/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-05-20-
preview/examples/license/License_ListByResourceGroup.json
func ExampleLicensesClient_NewListByResourceGroupPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 pager := clientFactory.NewLicensesClient().NewListByResourceGroupPager("myResourceGroup", nil)
 for pager.More() {
  page, err := pager.NextPage(ctx)
  if err != nil {
   log.Fatalf("failed to advance page: %v", err)
  }
  for _, v := range page.Value {
   // You could use page here. We use blank identifier for just demo purposes.
   _ = v
  }
  // If the HTTP response
```

code is 200 as defined in example definition, your page structure would look as follows. Please pay attention that all the values in the output are fake values for just demo purposes.

```
 // page.LicensesListResult = armhybridcompute.LicensesListResult{
 //  Value: []*armhybridcompute.License{
 //   {
 //    Name: to.Ptr("{licenseName}"),
 //    Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //    ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Licenses/{licenseName}"),
 //    Location: to.Ptr("eastus2euap"),
 //    Properties: &armhybridcompute.LicenseProperties{
 //     LicenseDetails: &armhybridcompute.LicenseDetails{
 //      Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //      AssignedLicenses: to.Ptr[int32](8),
 //      Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //      ImmutableID: to.Ptr("<generated Guid>"),
 //      Processors: to.Ptr[int32](6),
 //      State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //
     Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //     },
 //     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //     TenantID: to.Ptr("{tenandId}"),
 //    },
 //  }},
 // }
 }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-specs/blob/b574e2a41acda14a90ef237006e8bbdda2b63c63/specification/hybridcompute/resource-manager/Microsoft.HybridCompute/preview/2024-05-20-preview/examples/license/License_ListBySubscription.json
func ExampleLicensesClient_NewListBySubscriptionPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 pager := clientFactory.NewLicensesClient().NewListBySubscriptionPager(nil)
 for pager.More()
 {
  page, err := pager.NextPage(ctx)
```

```
 if err != nil {
  log.Fatalf("failed to advance page: %v", err)
 }
 for _, v := range page.Value {
  // You could use page here. We use blank identifier for just demo purposes.
  _ = v
 }
 // If the HTTP response code is 200 as defined in example definition, your page structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // page.LicensesListResult = armhybridcompute.LicensesListResult{
 //  Value: []*armhybridcompute.License{
 //   {
 //    Name: to.Ptr("{licenseName}"),
 //    Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //    ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //    Location: to.Ptr("eastus2euap"),
 //    Properties: &armhybridcompute.LicenseProperties{
 //     LicenseDetails: &armhybridcompute.LicenseDetails{
 //      Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //
     AssignedLicenses: to.Ptr[int32](8),
 //      Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //      ImmutableID: to.Ptr("<generated Guid>"),
 //      Processors: to.Ptr[int32](6),
 //      State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //      Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //     },
 //     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //     TenantID: to.Ptr("{tenandId}"),
 //    },
 //  }},
 // }
 }
}
```

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1.5251 github.com/mfridman/interpolate 0.0.2

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1.5252 github.com/moby/spdystream 0.4.0

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1.5256 protobuf-java 3.25.5

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Found in path(s):
* /opt/cola/permits/2206986858_1727943263.751567/0/protobuf-java-3-25-5-jar/google/protobuf/type.proto
* /opt/cola/permits/2206986858_1727943263.751567/0/protobuf-java-3-25-5-jar/google/protobuf/struct.proto
* /opt/cola/permits/2206986858_1727943263.751567/0/protobuf-java-3-25-5-jar/google/protobuf/timestamp.proto
*
 /opt/cola/permits/2206986858_1727943263.751567/0/protobuf-java-3-25-5-jar/google/protobuf/api.proto
* /opt/cola/permits/2206986858_1727943263.751567/0/protobuf-java-3-25-5-jar/google/protobuf/empty.proto
* /opt/cola/permits/2206986858_1727943263.751567/0/protobuf-java-3-25-5-
jar/google/protobuf/source_context.proto
* /opt/cola/permits/2206986858_1727943263.751567/0/protobuf-java-3-25-5-jar/google/protobuf/wrappers.proto
* /opt/cola/permits/2206986858_1727943263.751567/0/protobuf-java-3-25-5-jar/google/protobuf/duration.proto
* /opt/cola/permits/2206986858_1727943263.751567/0/protobuf-java-3-25-5-jar/google/protobuf/field_mask.proto
* /opt/cola/permits/2206986858_1727943263.751567/0/protobuf-java-3-25-5-jar/google/protobuf/any.proto
* /opt/cola/permits/2206986858_1727943263.751567/0/protobuf-java-3-25-5-jar/google/protobuf/descriptor.proto
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Manifest-Version: 1.0
Created-By: mergejars
Automatic-Module-Name: com.google.protobuf
Bnd-LastModified: 1726689439980
Bundle-Description: Core Protocol Buffers library. Protocol Buffers are
a way of encoding structured data in an efficient yet extensible format
.
Bundle-DocURL: https://developers.google.com/protocol-buffers/
Bundle-License: https://opensource.org/licenses/BSD-3-Clause
Bundle-ManifestVersion: 2
Bundle-Name: Protocol Buffers [Core]
Bundle-SymbolicName: com.google.protobuf
Bundle-Version: 3.25.5
Export-Package: com.google.protobuf;version="3.25.5",com.google.protobuf
.compiler;version="3.25.5";uses:="com.google.protobuf"
Import-Package: com.google.protobuf;version="[3.25,4)",sun.misc;resoluti
on:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.4.0.202211291949
Target-Label: //java/core:lite_runtime_only

Found in path(s):
* /opt/cola/permits/2206986858_1727943263.751567/0/protobuf-java-3-25-5-jar/META-INF/MANIFEST.MF

1.5257 jetcd-core 0.8.3

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*/
/**
   * Defragment one member of the cluster by its endpoint.
   *
   * <p>
   * After compacting the keyspace, the backend database may exhibit internal
   * fragmentation. Any internal fragmentation is space that is free to use
   * by the backend but still consumes storage space. The process of
   * defragmentation
 releases this storage space back to the file system.
   * Defragmentation is issued on a per-member so that cluster-wide latency
   * spikes may be avoided.
   *
   * <p>
   * Defragment is an expensive operation. User should avoid defragmenting
   * multiple members at the same time.
   * To defragment multiple members in the cluster, user need to call defragment
   * multiple times with different endpoints.
   *
   * @param  target the etcd server endpoint.
   * @return       the response result
   */
```

Found in path(s):
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/Maintenance.java

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Found in path(s):
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/Preconditions.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/Txn.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/resolver/AbstractNameResolver.java

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* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/impl/AbstractResponse.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/resolver/DnsSrvResolverProvider.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-

jar/io/etcd/jetcd/auth/AuthUserDeleteResponse.java
*
/opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-
jar/io/etcd/jetcd/kv/TxnResponse.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-
jar/io/etcd/jetcd/auth/AuthUserRevokeRoleResponse.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-
jar/io/etcd/jetcd/watch/WatchResponseWithError.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/Client.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-
jar/io/etcd/jetcd/auth/AuthRoleDeleteResponse.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-
jar/io/etcd/jetcd/options/PutOption.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-
jar/io/etcd/jetcd/impl/ClientConnectionManager.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-
jar/io/etcd/jetcd/kv/PutResponse.java
*
/opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-
jar/io/etcd/jetcd/lock/LockResponse.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-
jar/io/etcd/jetcd/resolver/HttpNameResolver.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-
jar/io/etcd/jetcd/auth/AuthDisableResponse.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-
jar/io/etcd/jetcd/options/LeaseOption.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-
jar/io/etcd/jetcd/impl/MaintenanceImpl.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-
jar/io/etcd/jetcd/lease/LeaseGrantResponse.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-
jar/io/etcd/jetcd/resolver/HttpResolverProvider.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-
jar/io/etcd/jetcd/support/CloseableClient.java
*
/opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-
jar/io/etcd/jetcd/election/LeaderKey.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-
jar/io/etcd/jetcd/election/CampaignResponse.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/KeyValue.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-
jar/io/etcd/jetcd/auth/AuthRoleGrantPermissionResponse.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-
jar/io/etcd/jetcd/maintenance/StatusResponse.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-
jar/io/etcd/jetcd/impl/LockImpl.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-
jar/io/etcd/jetcd/op/CmpTarget.java

* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/maintenance/SnapshotResponse.java
*
 /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/Cluster.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/op/Op.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/ClientBuilder.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/maintenance/AlarmResponse.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/maintenance/SnapshotReaderResponseWithError.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/options/GetOption.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/auth/AuthUserGetResponse.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/support/MemorizingClientSupplier.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/election/ResignResponse.java
*
 /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/maintenance/AlarmType.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/Election.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/maintenance/DefragmentResponse.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/impl/ElectionImpl.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/lease/LeaseKeepAliveResponse.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/auth/Permission.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/cluster/MemberListResponse.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/resolver/IPNameResolver.java
*
 /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/options/OptionsUtil.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/resolver/HttpsNameResolver.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/auth/AuthUserGrantRoleResponse.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/options/CompactOption.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/support/Util.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/impl/KVImpl.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-

jar/io/etcd/jetcd/lease/LeaseKeepAliveResponseWithError.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/impl/LeaseImpl.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/cluster/MemberAddResponse.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/resolver/HttpsResolverProvider.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/KV.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/maintenance/AlarmMember.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/maintenance/HashKVResponse.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/impl/AuthImpl.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/auth/AuthUserAddResponse.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/election/NotLeaderException.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/auth/AuthRoleAddResponse.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/support/Errors.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/Lease.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/Lock.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/election/NoLeaderException.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/watch/WatchResponse.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/cluster/Util.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/impl/ClusterImpl.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/kv/GetResponse.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/auth/AuthRoleRevokePermissionResponse.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/resolver/IPResolverProvider.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/support/Observers.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/kv/DeleteResponse.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/cluster/Member.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/Auth.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-

jar/io/etcd/jetcd/maintenance/MoveLeaderResponse.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/Response.java
*
/opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/op/Cmp.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-
jar/io/etcd/jetcd/election/LeaderResponse.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-
jar/io/etcd/jetcd/lease/NoSuchLeaseException.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-
jar/io/etcd/jetcd/auth/AuthUserChangePasswordResponse.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/Watch.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-
jar/io/etcd/jetcd/impl/WatchImpl.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-
jar/io/etcd/jetcd/auth/AuthRoleGetResponse.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-
jar/io/etcd/jetcd/options/WatchOption.java
*
/opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-
jar/io/etcd/jetcd/auth/AuthEnableResponse.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-
jar/io/etcd/jetcd/kv/CompactResponse.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-
jar/io/etcd/jetcd/lock/UnlockResponse.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-
jar/io/etcd/jetcd/ByteSequence.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-
jar/io/etcd/jetcd/resolver/DnsSrvNameResolver.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-
jar/io/etcd/jetcd/watch/WatchEvent.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-
jar/io/etcd/jetcd/lease/LeaseRevokeResponse.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/op/TxnImpl.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-
jar/io/etcd/jetcd/lease/LeaseTimeToLiveResponse.java
*
/opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-
jar/io/etcd/jetcd/resolver/AbstractResolverProvider.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/Constants.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-
jar/io/etcd/jetcd/election/ProclaimResponse.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-
jar/io/etcd/jetcd/cluster/MemberUpdateResponse.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-
jar/io/etcd/jetcd/options/DeleteOption.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-
jar/io/etcd/jetcd/impl/ClientImpl.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-

jar/io/etcd/jetcd/auth/AuthUserListResponse.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/cluster/MemberRemoveResponse.java
*
/opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/impl/AuthCredential.java
* /opt/cola/permits/2206986333_1727943308.2141695/0/jetcd-core-0-8-3-sources-jar/io/etcd/jetcd/auth/AuthRoleListResponse.java

1.5258 protobuf 1.28.1

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1.5259 postcss-selector-parser 6.1.2

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1.5260 google-uuid 1.3.0

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1.5261 prometheus-client 1.14.0

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1.5262 go-compute-metadata 0.5.2

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc        v4.25.3
// source: google/ai/generativelanguage/v1alpha/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"
```

```
 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
```

```
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
```

```
  "ROLE_UNSPECIFIED": 0,
  "OWNER":            1,
  "WRITER":           2,
  "READER":           3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string
 {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service
 accounts, you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
```

```
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1alpha.P
ermission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1alpha.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 mi := &file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
 {
 mi := &file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0]
 if x != nil {
```

```
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var
 File_google_ai_generativelanguage_v1alpha_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc = []byte{
 0x0a, 0x35, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
```

0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
0x6e, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x24, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e,
0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x1a, 0x1f, 0x67,
0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f,
0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19,
0x67, 0x6f, 0x6f, 0x67, 0x6c,
0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75,
0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x87, 0x05, 0x0a, 0x0a, 0x50, 0x65,
0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65,
0x18, 0x01, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04,
0x6e, 0x61, 0x6d, 0x65, 0x12, 0x6c, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3c, 0x2e, 0x67, 0x6f, 0x6f,
0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68,
0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61,
0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05,
0x48, 0x00, 0x52, 0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65,
0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
0x01, 0x01, 0x12, 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72,
0x65, 0x73, 0x73, 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41,
0x05, 0x48, 0x01, 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73,
0x73, 0x88, 0x01, 0x01, 0x12, 0x53, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01,
0x28, 0x0e, 0x32, 0x35, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73,
0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02,
0x52, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61,
0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41,
0x4e,
0x54, 0x45, 0x45, 0x5f, 0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49,
0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01,
0x12, 0x09, 0x0a, 0x05, 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45,
0x56, 0x45, 0x52, 0x59, 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c,
0x65, 0x12, 0x14, 0x0a, 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43,
0x49, 0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52,
0x10, 0x01, 0x12, 0x0a, 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a,
0x0a, 0x06, 0x52, 0x45, 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6,
0x01, 0x0a, 0x2c, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12,
0x32, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75,
0x6e, 0x65, 0x64, 0x5f, 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69,
0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69,
0x6f, 0x6e, 0x7d, 0x12, 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f,
0x72, 0x70, 0x75, 0x73, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b,

```
 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72,
 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e,
 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61,
 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73,
 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72,
 0x6f, 0x6c, 0x65, 0x42, 0x9d, 0x01, 0x0a, 0x28, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67,
 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65,
 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61,
 0x42, 0x0f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74,
 0x6f, 0x50, 0x01, 0x5a, 0x5e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
 0x65, 0x2e, 0x63, 0x6f, 0x6d, 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61,
 0x70, 0x69, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61,
 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67,
 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75,
 0x61, 0x67,
 0x65, 0x70, 0x62, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes
 = []any{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1alpha.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1alpha.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1alpha.Permission
}
var file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1alpha.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1alpha.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1alpha.Permission.role:type_name ->
google.ai.generativelanguage.v1alpha.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
```

```
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1alpha_permission_proto_init()
 }
func file_google_ai_generativelanguage_v1alpha_permission_proto_init() {
 if File_google_ai_generativelanguage_v1alpha_permission_proto != nil {
  return
 }
 file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0].OneofWrappers = []any{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
  GoTypes:           file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes,
  DependencyIndexes: file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs,
  EnumInfos:         file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes,
  MessageInfos:      file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes,
 }.Build()
 File_google_ai_generativelanguage_v1alpha_permission_proto = out.File
 file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc
 = nil
 file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes = nil
 file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs = nil
}
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//
```

```
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleLicensesClient_List_all() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications
 to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 for resp, err := range c.List(ctx, req).All() {
  if err != nil {
   // TODO: Handle error and break/return/continue. Iteration will stop after any error.
  }
  // TODO: Use resp.
```

```
  _ = resp
 }
}
// Copyright 2025 Google LLC
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package procurement_test

import (
 "context"

 procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
 procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
 longrunningpb "cloud.google.com/go/longrunning/autogen/longrunningpb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicenseManagementClient() {
 ctx
 := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}
```

```
func ExampleNewLicenseManagementRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c,
 err := procurement.NewLicenseManagementRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseManagementClient_Assign() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.AssignRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#AssignRequest.
 }
 resp, err := c.Assign(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 //
 TODO: Use resp.
 _ = resp
}

func ExampleLicenseManagementClient_EnumerateLicensedUsers() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
```

```
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.EnumerateLicensedUsersRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
dUsersRequest.
 }
 it := c.EnumerateLicensedUsers(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  //
 TODO: Use resp.
  _ = resp

  // If you need to access the underlying RPC response,
  // you can do so by casting the `Response` as below.
  // Otherwise, remove this line. Only populated after
  // first call to Next(). Not safe for concurrent access.
  _ = it.Response.(*procurementpb.EnumerateLicensedUsersResponse)
 }
}

func ExampleLicenseManagementClient_GetLicensePool() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
```

```
 defer c.Close()

 req := &procurementpb.GetLicensePoolRequest{
  // TODO: Fill request struct fields.
  //
 See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#GetLicensePoolRe
quest.
 }
 resp, err := c.GetLicensePool(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseManagementClient_Unassign() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.UnassignRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UnassignRequest.
 }
 resp,
 err := c.Unassign(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseManagementClient_UpdateLicensePool() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
```

```
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.UpdateLicensePoolRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UpdateLicensePoo
lRequest.
 }
 resp, err := c.UpdateLicensePool(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 //
 TODO: Use resp.
 _ = resp
}

func ExampleLicenseManagementClient_GetOperation() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &longrunningpb.GetOperationRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/longrunning/autogen/longrunningpb#GetOperationRequest.
 }
 resp, err := c.GetOperation(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

```
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
```

```
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.DeleteLicenseRequest{
 //
TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
}
op, err := c.Delete(ctx, req)
if err != nil {
 // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
 // TODO: Handle error.
}
}

func ExampleLicensesClient_Get() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
}
resp,
err := c.Get(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
```

```
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
```

```
 // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp

  // If you need to access the underlying RPC response,
  // you can do so by casting the `Response` as below.
  // Otherwise, remove this line. Only populated after
  // first call to Next(). Not safe for concurrent access.
  _ = it.Response.(*computepb.LicensesListResponse)
 }
}

func
```

```
ExampleLicensesClient_SetIamPolicy() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.SetIamPolicyLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
}
resp, err := c.SetIamPolicy(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
ctx := context.Background()
// This snippet has been automatically
generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
}
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
```

_ = resp
}
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package compute

import (
 "bytes"
 "context"
 "fmt"
 "log/slog"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var
 newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete          []gax.CallOption
 Get             []gax.CallOption
 GetIamPolicy    []gax.CallOption
 Insert          []gax.CallOption
```

```
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy:
[]gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  Insert: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  List: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
```

```
   }),
  },
  SetIamPolicy: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
 }
}

//
 internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
```

```
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection
 to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty
 if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}
```

```
// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses,
 use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution
This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners
 who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions

 logger *slog.Logger
}

// NewLicensesRESTClient creates a new licenses rest client.
```

```
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
  logger:      internaloption.GetLogger(opts),
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
```

```
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient
 with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client
 and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}
```

```
 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Delete")
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf,
 resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 op := &Operation{
  &globalOperationsHandle{
   c:       c.operationClient,
   proto:   resp,
   project: req.GetProject(),
  },
 }
 return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
```

```
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders,
 hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Get")
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource
 exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
```

```
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds,
 "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetIamPolicy")
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }
```

```
 return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended
 for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx,
 hds...)
 opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
```

```
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Insert")
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// List retrieves the
 list of licenses available in the specified project. This method does not get any licenses that belong to other projects,
including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available
licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32
  {
   req.MaxResults = proto.Uint32(uint32(math.MaxInt32))
  } else if pageSize != 0 {
```

```
 req.MaxResults = proto.Uint32(uint32(pageSize))
}
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, "", err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.Filter != nil {
 params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
}
if req != nil && req.MaxResults != nil {
 params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
}
if req != nil && req.OrderBy != nil {
 params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
 params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
}
if req != nil && req.ReturnPartialSuccess != nil {
 params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from
client and context metadata.
hds := append(c.xGoogHeaders, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq.Header = headers

 buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "List")
 if err != nil {
  return err
 }
 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }
```

```
  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken,
nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds
```

```
 := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()),
"resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "SetIamPolicy")
  if err != nil {
   return err
  }

  if
 err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
```

```
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params",
 fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "resource",
url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "TestIamPermissions")
  if err !=
 nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
```

```
  return nil, e
 }
 return resp, nil
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)
```

```
func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
```

```
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package procurement_test

import (
 "context"

 procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
 procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
)
```

```
func ExampleLicenseManagementClient_EnumerateLicensedUsers_all() {
 ctx := context.Background()
 // This snippet has been automatically
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.EnumerateLicensedUsersRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
dUsersRequest.
 }
 for resp, err := range c.EnumerateLicensedUsers(ctx, req).All() {
  if err != nil {
   // TODO: Handle error and break/return/continue. Iteration will stop after any error.
  }
  // TODO: Use resp.
  _ = resp
 }
}

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//
```

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc        v4.25.3
// source: google/cloud/commerce/consumer/procurement/v1/license_management_service.proto

package procurementpb

import (
 context "context"
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 grpc "google.golang.org/grpc"
 codes "google.golang.org/grpc/codes"
 status
 "google.golang.org/grpc/status"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
 durationpb "google.golang.org/protobuf/types/known/durationpb"
 fieldmaskpb "google.golang.org/protobuf/types/known/fieldmaskpb"
 timestamppb "google.golang.org/protobuf/types/known/timestamppb"
)

const (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Assignment protocol for a license pool.
type AssignmentProtocol struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // The type of assignment protocol.
 //
```

```
 // Types that are assignable to AssignmentType:
 //
 // *AssignmentProtocol_ManualAssignmentType_
 // *AssignmentProtocol_AutoAssignmentType_
 AssignmentType
 isAssignmentProtocol_AssignmentType `protobuf_oneof:"assignment_type"`
}

func (x *AssignmentProtocol) Reset() {
 *x = AssignmentProtocol{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol) ProtoMessage() {}

func (x *AssignmentProtocol) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
 []int{0}
}

func (m *AssignmentProtocol) GetAssignmentType() isAssignmentProtocol_AssignmentType {
 if m != nil {
  return m.AssignmentType
 }
 return nil
}
```

```
func (x *AssignmentProtocol) GetManualAssignmentType() *AssignmentProtocol_ManualAssignmentType {
 if x, ok := x.GetAssignmentType().(*AssignmentProtocol_ManualAssignmentType_); ok {
  return x.ManualAssignmentType
 }
 return nil
}

func (x *AssignmentProtocol) GetAutoAssignmentType() *AssignmentProtocol_AutoAssignmentType {
 if x, ok := x.GetAssignmentType().(*AssignmentProtocol_AutoAssignmentType_); ok {
  return x.AutoAssignmentType
 }
 return nil
}

type isAssignmentProtocol_AssignmentType interface {
 isAssignmentProtocol_AssignmentType()
}

type AssignmentProtocol_ManualAssignmentType_ struct {
 // Allow manual assignments triggered by administrative operations only.
 ManualAssignmentType *AssignmentProtocol_ManualAssignmentType
`protobuf:"bytes,2,opt,name=manual_assignment_type,json=manualAssignmentType,proto3,oneof"`
}

type
 AssignmentProtocol_AutoAssignmentType_ struct {
 // Allow automatic assignments triggered by data plane operations.
 AutoAssignmentType *AssignmentProtocol_AutoAssignmentType
`protobuf:"bytes,3,opt,name=auto_assignment_type,json=autoAssignmentType,proto3,oneof"`
}

func (*AssignmentProtocol_ManualAssignmentType_) isAssignmentProtocol_AssignmentType() {}

func (*AssignmentProtocol_AutoAssignmentType_) isAssignmentProtocol_AssignmentType() {}

// A license pool represents a pool of licenses that can be assigned to users.
type LicensePool struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Identifier. Format:
 // `billingAccounts/{billing_account}/orders/{order}/licensePool`
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Required. Assignment protocol for the license pool.
 LicenseAssignmentProtocol *AssignmentProtocol
`protobuf:"bytes,2,opt,name=license_assignment_protocol,json=licenseAssignmentProtocol,proto3"
```

```
 json:"license_assignment_protocol,omitempty"`
 // Output only. Licenses count that are available to be assigned.
 AvailableLicenseCount int32
`protobuf:"varint,3,opt,name=available_license_count,json=availableLicenseCount,proto3"
json:"available_license_count,omitempty"`
 // Output only. Total number of licenses in the pool.
 TotalLicenseCount int32 `protobuf:"varint,4,opt,name=total_license_count,json=totalLicenseCount,proto3"
json:"total_license_count,omitempty"`
}

func (x *LicensePool) Reset() {
 *x = LicensePool{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *LicensePool) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*LicensePool) ProtoMessage() {}

func (x *LicensePool) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
 if
 x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use LicensePool.ProtoReflect.Descriptor instead.
func (*LicensePool) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{1}
}

func (x *LicensePool) GetName() string {
 if x != nil {
  return x.Name
```

```
 }
 return ""
}

func (x *LicensePool) GetLicenseAssignmentProtocol() *AssignmentProtocol {
 if x != nil {
  return x.LicenseAssignmentProtocol
 }
 return nil
}

func (x *LicensePool) GetAvailableLicenseCount() int32 {
 if x != nil {
  return x.AvailableLicenseCount
 }
 return 0
}

func (x *LicensePool) GetTotalLicenseCount() int32 {
 if x != nil {
  return x.TotalLicenseCount
 }
 return 0
}

// Request message for getting a
 license pool.
type GetLicensePoolRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. The name of the license pool to get.
 // Format: `billingAccounts/{billing_account}/orders/{order}/licensePool`
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
}

func (x *GetLicensePoolRequest) Reset() {
 *x = GetLicensePoolRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *GetLicensePoolRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}
```

```
func (*GetLicensePoolRequest) ProtoMessage() {}

func (x *GetLicensePoolRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if
 ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use GetLicensePoolRequest.ProtoReflect.Descriptor instead.
func (*GetLicensePoolRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{2}
}

func (x *GetLicensePoolRequest) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

// Request message for updating a license pool.
type UpdateLicensePoolRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. The license pool to update.
 //
 // The license pool's name field is used to identify the license pool to
 // update. Format:
 // `billingAccounts/{billing_account}/orders/{order}/licensePool`.
 LicensePool *LicensePool `protobuf:"bytes,1,opt,name=license_pool,json=licensePool,proto3"
json:"license_pool,omitempty"`
 //
 Required. The list of fields to update.
 UpdateMask *fieldmaskpb.FieldMask `protobuf:"bytes,2,opt,name=update_mask,json=updateMask,proto3"
json:"update_mask,omitempty"`
```

```
}

func (x *UpdateLicensePoolRequest) Reset() {
 *x = UpdateLicensePoolRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *UpdateLicensePoolRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*UpdateLicensePoolRequest) ProtoMessage() {}

func (x *UpdateLicensePoolRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use UpdateLicensePoolRequest.ProtoReflect.Descriptor
 instead.
func (*UpdateLicensePoolRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{3}
}

func (x *UpdateLicensePoolRequest) GetLicensePool() *LicensePool {
 if x != nil {
  return x.LicensePool
 }
 return nil
}

func (x *UpdateLicensePoolRequest) GetUpdateMask() *fieldmaskpb.FieldMask {
 if x != nil {
  return x.UpdateMask
 }
```

```
 return nil
}

// Request message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementServic
e.Assign].
type AssignRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. License pool name.
 Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
 // Required. Username.
 // Format: `name@domain.com`.
 Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func
 (x *AssignRequest) Reset() {
 *x = AssignRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *AssignRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignRequest) ProtoMessage() {}

func (x *AssignRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignRequest.ProtoReflect.Descriptor instead.
```

```
func (*AssignRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{4}
}

func (x *AssignRequest) GetParent()
 string {
 if x != nil {
  return x.Parent
 }
 return ""
}

func (x *AssignRequest) GetUsernames() []string {
 if x != nil {
  return x.Usernames
 }
 return nil
}

// Response message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementServic
e.Assign].
type AssignResponse struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields
}

func (x *AssignResponse) Reset() {
 *x = AssignResponse{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *AssignResponse) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignResponse) ProtoMessage() {}

func (x *AssignResponse) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
```

```
 if x
 != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignResponse.ProtoReflect.Descriptor instead.
func (*AssignResponse) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{5}
}

// Request message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementSer
vice.Unassign].
type UnassignRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. License pool name.
 Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
 // Required. Username.
 // Format: `name@domain.com`.
 Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func (x *UnassignRequest) Reset()
 {
 *x = UnassignRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *UnassignRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*UnassignRequest) ProtoMessage() {}
```

```
func (x *UnassignRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use UnassignRequest.ProtoReflect.Descriptor instead.
func (*UnassignRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{6}
}

func (x *UnassignRequest) GetParent() string {
 if x != nil {
  return
 x.Parent
 }
 return ""
}

func (x *UnassignRequest) GetUsernames() []string {
 if x != nil {
  return x.Usernames
 }
 return nil
}

// Response message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementSer
vice.Unassign].
type UnassignResponse struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields
}

func (x *UnassignResponse) Reset() {
 *x = UnassignResponse{}
```

```
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *UnassignResponse) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*UnassignResponse) ProtoMessage() {}

func (x *UnassignResponse) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
 if x != nil {
  ms
 := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use UnassignResponse.ProtoReflect.Descriptor instead.
func (*UnassignResponse) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{7}
}

// Request message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. License pool name.
 Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
 // Optional. The maximum number of users to return. The service may return
 // fewer than this value.
 PageSize int32 `protobuf:"varint,2,opt,name=page_size,json=pageSize,proto3"
```

```
 json:"page_size,omitempty"`
 // Optional. A page token, received from a previous `EnumerateLicensedUsers`
 // call. Provide this to retrieve the subsequent page.
 PageToken string `protobuf:"bytes,3,opt,name=page_token,json=pageToken,proto3" json:"page_token,omitempty"`
}

func (x *EnumerateLicensedUsersRequest) Reset() {
 *x = EnumerateLicensedUsersRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersRequest) ProtoMessage() {}

func (x *EnumerateLicensedUsersRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo()
 == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersRequest.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{8}
}

func (x *EnumerateLicensedUsersRequest) GetParent() string {
 if x != nil {
  return x.Parent
 }
 return ""
}
```

```
func (x *EnumerateLicensedUsersRequest) GetPageSize() int32 {
 if x != nil {
  return x.PageSize
 }
 return 0
}

func (x *EnumerateLicensedUsersRequest) GetPageToken() string {
 if x != nil {
  return x.PageToken
 }
 return ""
}

// A licensed user.
type LicensedUser struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Username.
 // Format: `name@domain.com`.
 Username string `protobuf:"bytes,1,opt,name=username,proto3" json:"username,omitempty"`
 //
 Output only. Timestamp when the license was assigned.
 AssignTime *timestamppb.Timestamp `protobuf:"bytes,2,opt,name=assign_time,json=assignTime,proto3"
json:"assign_time,omitempty"`
 // Output only. Timestamp when the license was recently used. This may not be
 // the most recent usage time, and will be updated regularly (within 24
 // hours).
 RecentUsageTime *timestamppb.Timestamp
`protobuf:"bytes,3,opt,name=recent_usage_time,json=recentUsageTime,proto3"
json:"recent_usage_time,omitempty"`
}

func (x *LicensedUser) Reset() {
 *x = LicensedUser{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *LicensedUser) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*LicensedUser) ProtoMessage() {}
```

```
func (x *LicensedUser) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
 if
 x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use LicensedUser.ProtoReflect.Descriptor instead.
func (*LicensedUser) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{9}
}

func (x *LicensedUser) GetUsername() string {
 if x != nil {
  return x.Username
 }
 return ""
}

func (x *LicensedUser) GetAssignTime() *timestamppb.Timestamp {
 if x != nil {
  return x.AssignTime
 }
 return nil
}

func (x *LicensedUser) GetRecentUsageTime() *timestamppb.Timestamp {
 if x != nil {
  return x.RecentUsageTime
 }
 return nil
}

// Response message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersResponse
```

```
 struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // The list of licensed users.
 LicensedUsers []*LicensedUser `protobuf:"bytes,1,rep,name=licensed_users,json=licensedUsers,proto3"
json:"licensed_users,omitempty"`
 // A token that can be sent as `page_token` to retrieve the next page.
 // If this field is omitted, there are no subsequent pages.
 NextPageToken string `protobuf:"bytes,2,opt,name=next_page_token,json=nextPageToken,proto3"
json:"next_page_token,omitempty"`
}

func (x *EnumerateLicensedUsersResponse) Reset() {
 *x = EnumerateLicensedUsersResponse{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersResponse) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersResponse) ProtoMessage() {}

func
 (x *EnumerateLicensedUsersResponse) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersResponse.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersResponse) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{10}
}
```

```
func (x *EnumerateLicensedUsersResponse) GetLicensedUsers() []*LicensedUser {
 if x != nil {
  return x.LicensedUsers
 }
 return nil
}

func (x *EnumerateLicensedUsersResponse) GetNextPageToken() string {
 if x != nil {
  return x.NextPageToken
 }
 return ""
}

// Allow manual assignments triggered by administrative operations only.
type AssignmentProtocol_ManualAssignmentType
 struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields
}

func (x *AssignmentProtocol_ManualAssignmentType) Reset() {
 *x = AssignmentProtocol_ManualAssignmentType{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_ManualAssignmentType) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_ManualAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_ManualAssignmentType) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
```

```
}

// Deprecated:
 Use AssignmentProtocol_ManualAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_ManualAssignmentType) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{0, 0}
}

// Configuration for automatic assignments handled by data plane operations.
type AssignmentProtocol_AutoAssignmentType struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Optional. The time to live for an inactive license. After this time has
 // passed, the license will be automatically unassigned from the user. Must
 // be at least 7 days, if set. If unset, the license will never expire.
 InactiveLicenseTtl *durationpb.Duration
`protobuf:"bytes,1,opt,name=inactive_license_ttl,json=inactiveLicenseTtl,proto3"
json:"inactive_license_ttl,omitempty"`
}

func (x *AssignmentProtocol_AutoAssignmentType) Reset() {
 *x = AssignmentProtocol_AutoAssignmentType{}
 mi
 := &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_AutoAssignmentType) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_AutoAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_AutoAssignmentType) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
```

```
 return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol_AutoAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_AutoAssignmentType) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
 []int{0, 1}
}

func (x *AssignmentProtocol_AutoAssignmentType) GetInactiveLicenseTtl() *durationpb.Duration {
 if x != nil {
  return x.InactiveLicenseTtl
 }
 return nil
}

var File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto
protoreflect.FileDescriptor

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc =
[]byte{
 0x0a, 0x4e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2f, 0x63,
 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
 0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x76, 0x31, 0x2f,
 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x6d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65,
 0x6e, 0x74, 0x5f, 0x73, 0x65, 0x72, 0x76, 0x69, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f,
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 0x6f,
 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x1a,
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 0x74, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x73, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x17, 0x67,
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 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61,
 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f,
 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f,
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```

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0x74, 0x18, 0x01, 0x20, 0x01, 0x28, 0x09, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x52, 0x06, 0x70, 0x61,
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0x73, 0x18, 0x02, 0x20, 0x03, 0x28, 0x09, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x52, 0x09, 0x75, 0x73,
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0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d,
0x65, 0x6e, 0x74, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63,
0x6f, 0x6d, 0xd2, 0x41, 0x2e, 0x68, 0x74, 0x74, 0x70, 0x73, 0x3a, 0x2f, 0x2f, 0x77, 0x77, 0x77,
0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63, 0x6f, 0x6d, 0x2f,
0x61, 0x75, 0x74, 0x68, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2d, 0x70, 0x6c, 0x61, 0x74, 0x66,
0x6f, 0x72, 0x6d, 0x42, 0xbe, 0x02, 0x0a, 0x31, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67,
0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64,
0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63,
0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75,
0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x42, 0x1d, 0x4c, 0x69, 0x63, 0x65, 0x6e,
0x73, 0x65, 0x4d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x53, 0x65, 0x72, 0x76,
0x69, 0x63, 0x65, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x53, 0x63, 0x6c, 0x6f, 0x75,
0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d, 0x2f, 0x67, 0x6f, 0x2f,
0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65,
0x72, 0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x61, 0x70,
0x69, 0x76, 0x31, 0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x70,
0x62, 0x3b, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x70, 0x62, 0xaa,
0x02, 0x2d, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x43, 0x6c, 0x6f, 0x75,
0x64, 0x2e, 0x43,
0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x43, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
0x2e, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x56, 0x31, 0xca,
0x02, 0x2d, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x5c, 0x43, 0x6c, 0x6f, 0x75, 0x64, 0x5c, 0x43,
0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x5c, 0x43, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
0x5c, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x5c, 0x56, 0x31, 0xea,
0x02, 0x32, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x3a, 0x3a, 0x43, 0x6c, 0x6f, 0x75, 0x64, 0x3a,
0x3a, 0x43, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x3a, 0x3a, 0x43, 0x6f, 0x6e, 0x73, 0x75,
0x6d, 0x65, 0x72, 0x3a, 0x3a, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74,
0x3a, 0x3a, 0x56, 0x31, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

```
var (
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce
sync.Once
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
 = file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc
)

func
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP()
[]byte {
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce.Do(f
unc() {
  file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_cloud_commerce_consumer_procurement_v1_license_management_servi
ce_proto_rawDescData)
 })
 return file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
}

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes =
make([]protoimpl.MessageInfo, 13)
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes =
[]any{
 (*AssignmentProtocol)(nil),
                    // 0: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
 (*LicensePool)(nil),                        // 1: google.cloud.commerce.consumer.procurement.v1.LicensePool
 (*GetLicensePoolRequest)(nil),                  // 2:
google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
 (*UpdateLicensePoolRequest)(nil),               // 3:
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
 (*AssignRequest)(nil),                      // 4: google.cloud.commerce.consumer.procurement.v1.AssignRequest
 (*AssignResponse)(nil),                      // 5: google.cloud.commerce.consumer.procurement.v1.AssignResponse
 (*UnassignRequest)(nil),                     // 6: google.cloud.commerce.consumer.procurement.v1.UnassignRequest
 (*UnassignResponse)(nil),                     // 7: google.cloud.commerce.consumer.procurement.v1.UnassignResponse
 (*EnumerateLicensedUsersRequest)(nil),          // 8:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
 (*LicensedUser)(nil),
                        // 9: google.cloud.commerce.consumer.procurement.v1.LicensedUser
 (*EnumerateLicensedUsersResponse)(nil),         // 10:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
 (*AssignmentProtocol_ManualAssignmentType)(nil), // 11:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
 (*AssignmentProtocol_AutoAssignmentType)(nil),   // 12:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
 (*fieldmaskpb.FieldMask)(nil),                  // 13: google.protobuf.FieldMask
 (*timestamppb.Timestamp)(nil),                   // 14: google.protobuf.Timestamp
 (*durationpb.Duration)(nil),                    // 15: google.protobuf.Duration
```

```
}
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs =
[]int32{
 11, // 0:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.manual_assignment_type:type_name
 -> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
 12, // 1: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.auto_assignment_type:type_name -
> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
 0,  // 2: google.cloud.commerce.consumer.procurement.v1.LicensePool.license_assignment_protocol:type_name ->
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
 1,  // 3: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.license_pool:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
 13, // 4: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.update_mask:type_name ->
google.protobuf.FieldMask
 14, // 5: google.cloud.commerce.consumer.procurement.v1.LicensedUser.assign_time:type_name ->
google.protobuf.Timestamp
 14, // 6: google.cloud.commerce.consumer.procurement.v1.LicensedUser.recent_usage_time:type_name
 -> google.protobuf.Timestamp
 9,  // 7:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse.licensed_users:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensedUser
 15, // 8:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType.inactive_license_ttl:t
ype_name -> google.protobuf.Duration
 2,  // 9: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:input_type -
> google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
 3,  // 10:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:input_type ->
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
 4,  // 11: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:input_type ->
google.cloud.commerce.consumer.procurement.v1.AssignRequest
 6,  // 12: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:input_type
 -> google.cloud.commerce.consumer.procurement.v1.UnassignRequest
 8,  // 13:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:input_typ
e -> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
 1,  // 14:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
 1,  // 15:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
 5,  // 16: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:output_type ->
google.cloud.commerce.consumer.procurement.v1.AssignResponse
 7,  // 17: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:output_type ->
google.cloud.commerce.consumer.procurement.v1.UnassignResponse
 10, // 18:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:output_ty
```

```
pe
 -> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
 14, // [14:19] is the sub-list for method output_type
 9,  // [9:14] is the sub-list for method input_type
 9,  // [9:9] is the sub-list for extension type_name
 9,  // [9:9] is the sub-list for extension extendee
 0,  // [0:9] is the sub-list for field type_name
}

func init() {
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init()
}
func file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init() {
 if File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto != nil {
  return
 }
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0].Oneof
Wrappers = []any{
  (*AssignmentProtocol_ManualAssignmentType_)(nil),
  (*AssignmentProtocol_AutoAssignmentType_)(nil),
 }
 type x struct{}
 out := protoimpl.TypeBuilder{
  File:
 protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc,
   NumEnums:      0,
   NumMessages:   13,
   NumExtensions: 0,
   NumServices:   1,
  },
  GoTypes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes,
  DependencyIndexes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs,
  MessageInfos:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes,
 }.Build()
 File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto = out.File
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc = nil
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes = nil
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs
 = nil
}

// Reference imports to suppress errors if they are not otherwise used.
```

```
var _ context.Context
var _ grpc.ClientConnInterface

// This is a compile-time assertion to ensure that this generated file
// is compatible with the grpc package it is being compiled against.
const _ = grpc.SupportPackageIsVersion6

// LicenseManagementServiceClient is the client API for LicenseManagementService service.
//
// For semantics around ctx use and closing/ending streaming RPCs, please refer to
https://godoc.org/google.golang.org/grpc#ClientConn.NewStream.
type LicenseManagementServiceClient interface {
 // Gets the license pool.
 GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)
 // Updates the license pool if one exists for this Order.
 UpdateLicensePool(ctx context.Context, in *UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool,
error)
 // Assigns a license to a user.
 Assign(ctx
 context.Context, in *AssignRequest, opts ...grpc.CallOption) (*AssignResponse, error)
 // Unassigns a license from a user.
 Unassign(ctx context.Context, in *UnassignRequest, opts ...grpc.CallOption) (*UnassignResponse, error)
 // Enumerates all users assigned a license.
 EnumerateLicensedUsers(ctx context.Context, in *EnumerateLicensedUsersRequest, opts ...grpc.CallOption)
(*EnumerateLicensedUsersResponse, error)
}

type licenseManagementServiceClient struct {
 cc grpc.ClientConnInterface
}

func NewLicenseManagementServiceClient(cc grpc.ClientConnInterface) LicenseManagementServiceClient {
 return &licenseManagementServiceClient{cc}
}

func (c *licenseManagementServiceClient) GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts
...grpc.CallOption) (*LicensePool, error) {
 out := new(LicensePool)
 err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool", in, out, opts...)
 if err != nil {
  return nil, err
 }
 return
 out, nil
}

func (c *licenseManagementServiceClient) UpdateLicensePool(ctx context.Context, in
```

```
*UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error) {
 out := new(LicensePool)
 err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool", in, out,
opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}

func (c *licenseManagementServiceClient) Assign(ctx context.Context, in *AssignRequest, opts ...grpc.CallOption)
(*AssignResponse, error) {
 out := new(AssignResponse)
 err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign", in,
out, opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}

func (c *licenseManagementServiceClient) Unassign(ctx context.Context, in *UnassignRequest, opts
...grpc.CallOption) (*UnassignResponse, error) {
 out := new(UnassignResponse)
 err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
 in, out, opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}

func (c *licenseManagementServiceClient) EnumerateLicensedUsers(ctx context.Context, in
*EnumerateLicensedUsersRequest, opts ...grpc.CallOption) (*EnumerateLicensedUsersResponse, error) {
 out := new(EnumerateLicensedUsersResponse)
 err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers", in, out,
opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}

// LicenseManagementServiceServer is the server API for LicenseManagementService service.
type LicenseManagementServiceServer interface {
 // Gets the license pool.
```

```
 GetLicensePool(context.Context, *GetLicensePoolRequest) (*LicensePool, error)
 // Updates the license pool if one exists for this Order.
 UpdateLicensePool(context.Context, *UpdateLicensePoolRequest) (*LicensePool, error)
 // Assigns a license to a user.
 Assign(context.Context, *AssignRequest)
 (*AssignResponse, error)
 // Unassigns a license from a user.
 Unassign(context.Context, *UnassignRequest) (*UnassignResponse, error)
 // Enumerates all users assigned a license.
 EnumerateLicensedUsers(context.Context, *EnumerateLicensedUsersRequest)
(*EnumerateLicensedUsersResponse, error)
}

// UnimplementedLicenseManagementServiceServer can be embedded to have forward compatible
implementations.
type UnimplementedLicenseManagementServiceServer struct {
}

func (*UnimplementedLicenseManagementServiceServer) GetLicensePool(context.Context,
*GetLicensePoolRequest) (*LicensePool, error) {
 return nil, status.Errorf(codes.Unimplemented, "method GetLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) UpdateLicensePool(context.Context,
*UpdateLicensePoolRequest) (*LicensePool, error) {
 return nil, status.Errorf(codes.Unimplemented, "method UpdateLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Assign(context.Context, *AssignRequest)
 (*AssignResponse, error) {
 return nil, status.Errorf(codes.Unimplemented, "method Assign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Unassign(context.Context, *UnassignRequest)
(*UnassignResponse, error) {
 return nil, status.Errorf(codes.Unimplemented, "method Unassign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) EnumerateLicensedUsers(context.Context,
*EnumerateLicensedUsersRequest) (*EnumerateLicensedUsersResponse, error) {
 return nil, status.Errorf(codes.Unimplemented, "method EnumerateLicensedUsers not implemented")
}

func RegisterLicenseManagementServiceServer(s *grpc.Server, srv LicenseManagementServiceServer) {
 s.RegisterService(&_LicenseManagementService_serviceDesc, srv)
}

func _LicenseManagementService_GetLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(GetLicensePoolRequest)
 if err := dec(in);
```

```
 err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, req.(*GetLicensePoolRequest))
 }
 return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_UpdateLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(UpdateLicensePoolRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool",
 }
 handler
 := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, req.(*UpdateLicensePoolRequest))
 }
 return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Assign_Handler(srv interface{}, ctx context.Context, dec func(interface{})
error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(AssignRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).Assign(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign",
```

```
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).Assign(ctx, req.(*AssignRequest))
 }
 return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Unassign_Handler(srv
 interface{}, ctx context.Context, dec func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{},
error) {
 in := new(UnassignRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).Unassign(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).Unassign(ctx, req.(*UnassignRequest))
 }
 return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_EnumerateLicensedUsers_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(EnumerateLicensedUsersRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if
 interceptor == nil {
  return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod:
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx,
req.(*EnumerateLicensedUsersRequest))
 }
 return interceptor(ctx, in, info, handler)
}
```

```
var _LicenseManagementService_serviceDesc = grpc.ServiceDesc{
 ServiceName: "google.cloud.commerce.consumer.procurement.v1.LicenseManagementService",
 HandlerType: (*LicenseManagementServiceServer)(nil),
 Methods: []grpc.MethodDesc{
  {
   MethodName: "GetLicensePool",
   Handler:    _LicenseManagementService_GetLicensePool_Handler,
  },
  {
   MethodName: "UpdateLicensePool",
   Handler:    _LicenseManagementService_UpdateLicensePool_Handler,
  },
  {
   MethodName: "Assign",
   Handler:
    _LicenseManagementService_Assign_Handler,
  },
  {
   MethodName: "Unassign",
   Handler:    _LicenseManagementService_Unassign_Handler,
  },
  {
   MethodName: "EnumerateLicensedUsers",
   Handler:    _LicenseManagementService_EnumerateLicensedUsers_Handler,
  },
 },
 Streams:  []grpc.StreamDesc{},
 Metadata: "google/cloud/commerce/consumer/procurement/v1/license_management_service.proto",
}
```

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```
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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc        v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
```

```
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
```

```
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":            1,
  "WRITER":           2,
  "READER":           3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}
```

```
func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
```

```
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
 {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}
```

```
func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var
 File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f,
 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69,
 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
 0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
 0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
 0x01, 0x01, 0x12,
 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
```

```
0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
0x54,
0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69,
0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f,
0x72, 0x6f, 0x6c, 0x65, 0x42,
0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
0x72,
0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
```

```
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = []any{
 (Permission_GranteeType)(0),
 // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func file_google_ai_generativelanguage_v1beta_permission_proto_init()
 {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
```

```
 },
 GoTypes:          file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
 DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
 EnumInfos:         file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
 MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1beta_permission_proto = out.File
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
= nil
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
```

1.5263 jakarta-persistence-api 3.2.0

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1.5264 kubernetes-apimachinery 0.31.1

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1.5265 github.com/prometheus-community/postgres_exporter 0.15.0

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By: Jon Schlinkert, Brian Woodward, Daniel Perez
Repository: micromatch/is-glob

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Repository: jonschlinkert/is-number

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Repository: git+https://github.com/Rich-Harris/is-reference.git

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locate-character
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magic-string

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Repository: git://github.com/paulmillr/readdirp.git

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By: Ben Coe
Repository: https://github.com/tapjs/signal-exit.git

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Repository: https://github.com/Rich-Harris/sourcemap-codec

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to-regex-range
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yargs-parser
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Repository: https://github.com/yargs/yargs-parser.git

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1.5270 libpsl 0.21.5-r3

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1.5271 tar 7.4.3

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* /opt/cola/permits/2213771610_1728321797.2926257/0/jansi-2-4-1-sources-2-jar/org/fusesource/jansi/AnsiRenderer.java
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* /opt/cola/permits/2213771610_1728321797.2926257/0/jansi-2-4-1-sources-2-jar/org/fusesource/jansi/AnsiConsole.java
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* /opt/cola/permits/2213771610_1728321797.2926257/0/jansi-2-4-1-sources-2-jar/org/fusesource/jansi/io/WindowsAnsiProcessor.java
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* /opt/cola/permits/2213771610_1728321797.2926257/0/jansi-2-4-1-sources-2-jar/META-INF/maven/org.fusesource.jansi/jansi/pom.xml
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1.5273 kubernetes-api 0.31.0-rc.1

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1.5274 kubernetes-cliruntime 0.31.0-rc.1

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1.5278 asm 9.7.1

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1.5283 grpc-netty-shaded 1.66.0

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1.5286 log4j-1.2-api 2.24.0

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1.5287 log4j-jcl 2.24.0

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1.5288 py3-prompt_toolkit 3.0.47-r0

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1.5289 hashicorp-consul-api 1.29.2

1.5289.1 Available under license :

```
---
layout: api
page_title: License - Operator - HTTP API
description: |-
 The /operator/license endpoint allows for retrieving the Consul
 Enterprise License.
---

# License - Operator HTTP API

<EnterpriseAlert />

The licensing functionality described here is available only in
[Consul Enterprise](https://www.hashicorp.com/products/consul/) version 1.1.0 and later.

## Getting the Consul License

This endpoint gets information about the current license.

| Method | Path                | Produces           |
| ------ | ------------------- | ------------------ |
| `GET`  | `/operator/license` | `application/json` |

The table below shows this endpoint's support for
[blocking queries](/consul/api-docs/features/blocking),
[consistency modes](/consul/api-docs/features/consistency),
[agent caching](/consul/api-docs/features/caching), and
[required ACLs](/consul/api-docs/api-structure#authentication).

| Blocking Queries | Consistency Modes | Agent Caching | ACL Required |
| ----------------
 | ----------------- | ------------- | ------------ |
| `NO`             | `all`             | `none`        | `none`       |

The corresponding CLI command is [`consul license get`](/consul/commands/license#get).

### Query Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be retrieved.
 This will default to the datacenter of the agent serving the HTTP request.

### Sample Request

```shell-session
$ curl \
   http://127.0.0.1:8500/v1/operator/license
```
```

Sample Response

```json
{
 "Valid": true,
 "License": {
   "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
   "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
   "installation_id": "*",
   "issue_time": "2018-05-21T20:03:35.911567355Z",
   "start_time": "2018-05-21T04:00:00Z",
   "expiration_time": "2019-05-22T03:59:59.999Z",
   "product": "consul",
   "flags": {
     "package": "premium"
   },
   "features": [
     "Automated Backups",
     "Automated Upgrades",

     "Enhanced Read Scalability",
     "Network Segments",
     "Redundancy Zone",
     "Advanced Network Federation"
   ],
   "temporary": false
 },
 "Warnings": []
}
```

Updating the Consul License

-> **Deprecated** This endpoint was removed in Consul v1.10.0 along with the ability to manage the cluster's license via the API.

This endpoint updates the Consul license and returns some of the license contents as well as any warning messages regarding its validity.

Method	Path	Produces
`PUT`	`/operator/license`	`application/json`

The table below shows this endpoint's support for [blocking queries](/consul/api-docs/features/blocking), [consistency modes](/consul/api-docs/features/consistency), [agent caching](/consul/api-docs/features/caching), and

[required ACLs](/consul/api-docs/api-structure#authentication).

| Blocking Queries | Consistency Modes | Agent Caching | ACL Required
|
| ---------- | ---------- | ---------- | ---------- |
| `NO` | `none` | `none` | `operator:write` |

The corresponding CLI command is [`consul license put`](/consul/commands/license#put).

Query Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be updated.
 This will default to the datacenter of the agent serving the HTTP request.

Sample Payload

The payload is the raw license blob.

Sample Request

```shell-session
$ curl \
  --request PUT \
  --data @consul.license \
  http://127.0.0.1:8500/v1/operator/license
```

Sample Response

```json
{
 "Valid": true,
 "License": {
  "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
  "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
  "installation_id": "*",
  "issue_time": "2018-05-21T20:03:35.911567355Z",
  "start_time": "2018-05-21T04:00:00Z",
  "expiration_time": "2019-05-22T03:59:59.999Z",
  "product":
 "consul",
  "flags": {
   "package": "premium"
  },
  "features": [
   "Automated Backups",
   "Automated Upgrades",
   "Enhanced Read Scalability",
```

```
    "Network Segments",
    "Redundancy Zone",
    "Advanced Network Federation"
  ],
  "temporary": false
 },
 "Warnings": []
}
```

Resetting the Consul License

-> **Deprecated** This endpoint was removed in Consul v1.10.0 along with
the ability to manage the cluster's license via the API.

This endpoint resets the Consul license to the license included in the Enterprise binary. If the included license is not valid, the replace will fail.

Method	Path	Produces
`DELETE`	`/operator/license`	`application/json`

The table below shows this endpoint's support for
[blocking queries](/consul/api-docs/features/blocking),
[consistency modes](/consul/api-docs/features/consistency),
[agent caching](/consul/api-docs/features/caching),
 and
[required ACLs](/consul/api-docs/api-structure#authentication).

Blocking Queries	Consistency Modes	Agent Caching	ACL Required
`NO`	`none`	`none`	`operator:write`

The corresponding CLI command is [`consul license reset`](/consul/commands/license#reset).

Query Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be updated.
 This will default to the datacenter of the agent serving the HTTP request.

Sample Request

```shell-session
$ curl \
  --request DELETE \
  http://127.0.0.1:8500/v1/operator/license
```

Sample Response

```json
{
 "Valid": true,
 "License": {
   "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
   "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
   "installation_id": "*",
   "issue_time": "2018-05-21T20:03:35.911567355Z",
   "start_time": "2018-05-21T04:00:00Z",
    "expiration_time": "2019-05-22T03:59:59.999Z",
   "product": "consul",
   "flags": {
     "package": "premium"
   },
   "features": [
     "Automated Backups",
     "Automated Upgrades",
     "Enhanced Read Scalability",
     "Network Segments",
     "Redundancy Zone",
     "Advanced Network Federation"
   ],
   "temporary": false
 },
 "Warnings": []
}
```

```
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*/

@import './skin';
@import './layout';
/**
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*/

.consul-intention-permission-form {
 h2 {
   padding-top: 1.4em;
   margin-top: 0.2em;
   margin-bottom: 0.6em;
 }
 .consul-intention-permission-header-form {
```

```
  margin-top: 10px;
 }
 fieldset:nth-child(2) > div,
 .consul-intention-permission-header-form fieldset > div {
  display: grid;
  grid-template-columns: repeat(auto-fit, minmax(160px, 1fr));
  grid-gap: 12px;
 }
 fieldset:nth-child(2) > div label:last-child {
  grid-column: span 2;
 }
 .ember-basic-dropdown-trigger {
  padding: 5px;
 }
 .checkbox-group {
  flex-direction: column;
 }
}
/**
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* SPDX-License-Identifier: BUSL-1.1
*/

@import './skin';
@import './layout';
.consul-intention-permission-list > ul > li {
 @extend %list-row-200;
}
.consul-intention-permission-list:not(.readonly) > ul > li {
 @extend %with-composite-row-intent;
}
.consul-intention-permission-list strong {
 @extend %pill-500;
}
.consul-intention-permission-list .intent-allow {
 @extend %pill-allow;
}
.consul-intention-permission-list .intent-deny {
 @extend %pill-deny;
}
```

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---
layout: docs
page_title: Enterprise License FAQ
description: >-
Review frequently asked questions (FAQs) about Consul Enterprise licenses to learn more about how licenses work, what happens when they expire, and how to get a trial license.

Frequently Asked Questions (FAQ)

This FAQ is for the license changes introduced in Consul Enterprise version 1.10.0.
Consul Enterprise automatically loads Consul licenses when the server agent starts.

Q: Can I get a quick summary of the Consul changes?

Starting with Consul Enterprise 1.10.0, the license enablement process is different.

HashiCorp Enterprise servers will no longer start without a license. Servers require licenses to be provided from either an environment variable or file.
If the license is missing, invalid, or expired, the server will immediately exit.
This check is part of the server boot-up process.

In previous versions of HashiCorp enterprise products, one server could distribute a license to other servers via the Raft protocol.
This will no longer work since each server must be able to find a valid license during the startup process.

Q: What are the upgrade requirements?

All customers on Consul Enterprise 1.8/1.9 must first upgrade their client and server agents to the latest patch release.
During the upgrade the license file must also be configured on client agents in an environment variable or file path, otherwise the Consul agents will fail to retrieve the license with a valid agent token.
The upgrade process varies if ACLs are enabled or disabled in the cluster.
Refer to the instructions on [upgrading to 1.10.x](/consul/docs/upgrading/instructions/upgrade-to-1-10-x) for details.

Q: Is there a tutorial available for the license configuration steps?

Please visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs).

Q: What resources are available?

The list below is a great starting point for learning more about the license changes introduced in Consul Enterprise 1.10.0+ent.

- [Consul Enterprise Upgrade Documentation](/consul/docs/enterprise/upgrades)

- [Consul License Documentation](/consul/docs/enterprise/license/overview)

- [License configuration values documentation](/consul/docs/enterprise/license/overview#binaries-without-built-in-licenses)

- [Install a HashiCorp Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs)

Q: Do these changes impact all customers/licenses?

The license changes introduced in 1.10.0 only affect Consul Enterprise.
This impacts customers that have an enterprise binary (trial or non-trial licenses) downloaded from https://releases.hashicorp.com.

The license changes do not impact customers with the baked-in licensed binaries. In a later release of Consul Enterprise, baked-in binaries will be deprecated.

Q: What is the product behavior change introduced by the licensing changes?

Starting with Consul Enterprise 1.10.0,
 a valid license is required on-disk (auto-loading) or as an environment variable for Consul Enterprise to successfully boot-up.
The in-storage license feature will not be supported starting with Consul Enterprise 1.10.0+ent. All Consul Enterprise clusters using 1.10.0+ent must ensure that there is a valid license on-disk (auto-loaded) or as an environment variable.

Q: What is the impact on trial licenses due to this change? ((#q-what-is-the-impact-on-evaluation-licenses-due-to-this-change))

Consul Enterprise 1.10.0+ server agents require a valid license to start.
The license can be provided on disk (auto-loaded) or as an environment variable.
There is no longer a 6-hour trial period in which Consul Enterprise server agents
can operate without a license.

Q: Is there a grace period when licenses expire?

YesConsul will continue normal operation and can be restarted after license *expiration* as defined in [`expiration_time`](/consul/api-docs/operator/license#getting-the-consul-license).
As
 license expiration is approached or passed, Consul will issue warnings in the system logs.

Consul will only cease operation after license *termination*, which occurs 10 years
after license expiration and is defined in
[`termination_time`](/consul/api-docs/operator/license#getting-the-consul-license).

~> **Starting with Consul 1.14, and patch releases 1.13.3 and 1.12.6, Consul will support non-terminating licenses**:
  Please contact your support representative for more details on non-terminating licenses.
  An expired license will not allow Consul versions released after the expiration date to run.
  It will not be possible to upgrade to a new version of Consul released after license expiration.

Q: Does this affect client agents?

There are upgrade requirements that affect Consul Enterprise clients.
Please review the [upgrade requirements](#q-what-are-the-upgrade-requirements) documentation.

Q: Does this affect snapshot agents?

Same behavior as Consul clients.
 See answer for [Does this affect client agents?](#q-does-this-affect-client-agents)

Q: What is the behavior if the license is missing?

Consul server agents will detect the absence of the license and immediately exit.

Consul client agents will attempt to retrieve the license from servers if certain conditions are met:

- ACLs are enabled.
- An ACL token is provided to the client agent.
- The client agents configuration contains `retry_join` addresses.
- The retry join addresses are addresses of the Consul servers.

Consul snapshot agents will attempt to retrieve the license from servers if certain conditions are met: ACLs are enabled, a ACL token is provided to the client agent, the client agents configuration contains `retry_join` addresses, the retry join addresses are addresses of the Consul servers.

Q: Where can users get a trial license for Consul Enterprise?

Contact your [HashiCorp Support contact](https://support.hashicorp.com/) for a development license.

~> **Trial
 install will cease operation 24 hours after 30-day license expiration**:
  Trial licenses are not meant to be used in production.
  This is unlike non-trial licenses which provide a 10 year grace period as described in
  the answer for [Q: Is there a grace period when licenses expire?](#q-is-there-a-grace-period-when-licenses-expire).

Q: How can I renew a license?

Contact your organization's [HashiCorp account team](https://support.hashicorp.com/hc/en-us) for information on how to renew your organization's enterprise license.

Q: I'm an existing enterprise customer but don't have my license, how can I get it?

Contact your organization's [HashiCorp account team](https://support.hashicorp.com/hc/en-us) for information on how to renew your organization's enterprise license.

Q: Are the license files locked to a specific cluster?

The license files are not locked to a specific cluster or cluster node. The above changes apply to all nodes in a cluster.

Q: Will this
 impact HCP Consul Dedicated?

This will not impact HCP Consul Dedicated.

Q: Does this need to happen every time a node restarts, or is this a one-time check?

Consul Enterprise binaries starting with 1.10.0+ent, will be subject to EULA check. Release 1.10.0+ent introduces the EULA check for trial licenses (non-trial licenses already go through EULA check during contractual agreement).

The agreement to a EULA happens only once (when the user gets their license), Consul Enterprise **will check for the presence of a valid license every time a node restarts**.

When a customer upgrades existing clusters to a 1.10.0+ent release, they need to have a valid license to successfully upgrade. This valid license must be auto-loaded.

When a customer deploys new clusters to a 1.10.0+ent release, they need to have a valid license to successfully upgrade. This valid license must be on-disk (auto-loaded).

Q: What are the scenarios that a customer must plan for because of these changes?

New
 Consul cluster deployments using 1.10.0+ent will need to have a valid license on servers to successfully deploy. This valid license must be on-disk (auto-loaded) or as an environment variable.
Please see the [upgrade requirements](/consul/docs/enterprise/license/faq#q-what-are-the-upgrade-requirements).

Q: What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?

VM

1. Run [`consul license get -signed`](/consul/commands/license#get) to extract the license from their running cluster. Store the license in a secure location on disk.
1. Set up the necessary configuration so that when Consul Enterprise reboots it will have access to the required license. This could be via the client agent configuration file or an environment variable.
1. Visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs) for detailed steps on how to install the license
 key.
1. Follow the Consul upgrade [documentation](/consul/docs/upgrading).

Kubernetes

NOTE: If you are not upgrading Consul or your Helm chart version then no action is required.

1. In order to use Consul Enterprise 1.10.0 or greater on Kubernetes you must use version 0.32.0 or greater of the Helm chart.
1. You should already have a Consul Enterprise license set as a Kubernetes secret. If you do not, refer to [how to obtain a copy of your license](/consul/docs/enterprise/license/faq#q-i-m-an-existing-enterprise-customer-but-don-t-have-my-license-how-can-i-get-it).
Once you have the license then create a Kubernetes secret containing the license as described in [Kubernetes - Consul Enterprise](/consul/docs/k8s/deployment-configurations/consul-enterprise).
1. Follow the [Kubernetes Upgrade Docs](/consul/docs/k8s/upgrade) to upgrade. No changes to your `values.yaml` file are needed to enable enterprise autoloading since this support is built in to consul-helm 0.32.0 and greater.

!>
 Warning: If you are upgrading the Helm chart but **not** upgrading the Consul version, you must set `server.enterpriseLicense.enableLicenseAutoload: false`. See [Kubernetes - Consul

Enterprise](/consul/docs/k8s/deployment-configurations/consul-enterprise) for more details.

Q: What is the migration path for customers who want to migrate from their existing perpetually-licensed binaries to the license on disk flow?

VM

1. Acquire a valid Consul Enterprise license. If you are an existing HashiCorp enterprise customer you may contact your organization's [customer success manager](https://support.hashicorp.com/hc/en-us) (CSM) for information on how to get your organization's enterprise license.
1. Store the license in a secure location on disk.
1. Set up the necessary configuration so that when Consul Enterprise reboots it will have the required license. This could be via the client agent configuration file or an environment variable.
  Visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs) for detailed steps on how to install the license key.
1. Follow the Consul upgrade [documentation](/consul/docs/upgrading).

Kubernetes

1. Acquire a valid Consul Enterprise license. If you are an existing HashiCorp enterprise customer you may contact your organization's [customer success manager](https://support.hashicorp.com/hc/en-us) (CSM) for information on how to get your organization's enterprise license.
1. Set up the necessary configuration so that when Consul Enterprise reboots it will have the required license. This could be via the client agent configuration file or an environment variable.
  Visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs) for detailed steps on how to install the license key.
1. Proceed with the `helm` [upgrade instructions](/consul/docs/k8s/upgrade)

Q: Will Consul downgrades/rollbacks work?

When downgrading to a version of Consul before 1.10.0+ent, customers will need to follow the previous process for applying an enterprise licenses to Consul Enterprise.

Q: Are there potential pitfalls when downgrading or upgrading Consul server instances?

~> Verify that you meet the [upgrade requirements](/consul/docs/enterprise/license/faq#q-what-are-the-upgrade-requirements).

Assume a scenario where there are three Consul server nodes:

- Node A: v1.9.5
- Node B: v1.10.0 [Leader]
- Node C: v1.9.5

The command `consul license put` is issued from Node A. This will result in an error due to how Consul routes calls to the server node, Node B in this example.
Because Node A is a follower when the call `consul license put` is issued, the call will be redirected to Node B

(leader).
The `consul license put` operation will fail due to being removed from 1.10.0.
This is a scenario that could occur if a customer downgrades from 1.10.0+ and the Consul leadership has not transferred back over to a node
 not running 1.10.0+.
This also has the potential of occurring when upgrading if scheduled license updates or autoscaling groups recoveries are in place.

Q: Any impacts to Consul Kubernetes?

If you are using a Consul Enterprise version prior to 1.10.0 and decide to upgrade the Helm chart to version 0.32.0 or newer, but not the Consul version.
You will need to add the following configuration.

```
server:
 enterpriseLicense:
   enableLicenseAutoload: false
```

```
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

.consul-intention-permission-header-list {
 max-height: 200px;
 overflow: auto;
}
{{!
 Copyright (c) HashiCorp, Inc.
 SPDX-License-Identifier: BUSL-1.1
}}

{{#if (gt items.length 0)}}
<ListCollection
 class="consul-intention-permission-header-list"
 @items={{items}}
 @scroll="native"
 @cellHeight={{42}}
as |item|>
 <BlockSlot @name="details">
   <dl>
     <dt>
       <Tooltip>
         Header
       </Tooltip>
     </dt>
     <dd>
```

```
      {{item.Name}} {{route-match item}}
    </dd>
  </dl>
</BlockSlot>
<BlockSlot @name="actions" as |Actions|>
  <Actions as |Action|>
    <Action data-test-delete-action @onclick={{action ondelete item}} class="dangerous">
      <BlockSlot @name="label">
        Delete
      </BlockSlot>
      <BlockSlot @name="confirmation" as |Confirmation|>
        <Confirmation class="warning">
          <BlockSlot @name="header">
            Confirm delete
          </BlockSlot>
          <BlockSlot @name="body">
            <p>
              Are you sure you want to delete this header?

  </p>
          </BlockSlot>
          <BlockSlot @name="confirm" as |Confirm|>
            <Confirm>Delete</Confirm>
          </BlockSlot>
        </Confirmation>
      </BlockSlot>
    </Action>
  </Actions>
</BlockSlot>
</ListCollection>
{{/if}}
{
 "name": "envoy.filters.http.rbac",
 "typedConfig": {
   "@type": "type.googleapis.com/envoy.extensions.filters.http.rbac.v3.RBAC",
   "rules": {
     "policies": {
       "consul-intentions-layer7-0": {
         "permissions": [
           {
             "andRules": {
               "rules": [
                 {
                   "urlPath": {
                     "path": {
                       "exact": "/v1/secret"
                     }
                   }
```

```
    },
    {
      "andRules": {
        "rules": [
          {
            "metadata": {
              "filter": "envoy.filters.http.jwt_authn",
              "path": [
                {
                  "key": "jwt_payload_auth0"
                },
                {
                  "key": "iss"
                }
              ],
              "value": {
                "stringMatch": {
                  "exact": "mytest.auth0-issuer"
                }
              }
            }
          },
          {
            "metadata": {
              "filter": "envoy.filters.http.jwt_authn",
              "path": [
                {
                  "key": "jwt_payload_auth0"
                },
                {
                  "key": "perms"
                },
                {
                  "key": "role"
                }
              ],
              "value": {
                "stringMatch": {
                  "exact": "admin"

}
              }
            }
          }
        ]
      }
    }
  ]
```

```
      }
    },
    {
      "andRules": {
        "rules": [
          {
            "urlPath": {
              "path": {
                "exact": "/v1/admin"
              }
            }
          },
          {
            "notRule": {
              "urlPath": {
                "path": {
                  "exact": "/v1/secret"
                }
              }
            }
          }
        ]
      }
    }
  ],
  "principals": [
    {
      "andIds": {
        "ids": [
          {
            "authenticated": {
              "principalName": {

            "safeRegex": {
                  "regex": "^spiffe://test.consul/ns/default/dc/[^/]+/svc/web$"
                }
              }
            }
          },
          {
            "andIds": {
              "ids": [
                {
                  "metadata": {
                    "filter": "envoy.filters.http.jwt_authn",
                    "path": [
                      {
                        "key": "jwt_payload_okta"
```

```
                    },
                    {
                      "key": "iss"
                    }
                  ],
                  "value": {
                    "stringMatch": {
                      "exact": "mytest.okta-issuer"
                    }
                  }
                }
              },

              {
                "metadata": {
                  "filter": "envoy.filters.http.jwt_authn",
                  "path": [
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                      "key": "jwt_payload_okta"
                    },
                    {
                      "key": "roles"
                    }
                  ],
                  "value": {
                    "stringMatch": {
                      "exact": "testing"
                    }
                  }
                }
              }
            ]
          }
        }
      }
    ]
  }
}
}
{{!
 Copyright (c) HashiCorp, Inc.
 SPDX-License-Identifier: BUSL-1.1
}}
```

```
<div
 ...attributes
 class="consul-intention-permission-header-form"
>
 <FormGroup
   @name={{name}}
 as |group|>

   {{yield (hash
     submit=(action 'submit' changeset)
     reset=(action 'reset' changeset)

     isDirty=(and changeset.isValid changeset.isDirty)
     changeset=changeset
   )}}

   <fieldset>
     <div>
       <group.Element
         @name="HeaderType"
         @type="select"
       as |el|>
         <el.Label>Header type</el.Label>
         <PowerSelect
           @options={{headerTypes}}
           @selected={{headerType}}
           @onChange={{action 'change' 'HeaderType' changeset}} as |Type|>
             {{get headerLabels Type}}
         </PowerSelect>
       </group.Element>


       <group.Element
         @name="Name"
         @error={{changeset-get changeset 'error.Name'}}
       as |el|>
         <el.Label>Header name</el.Label>
         <el.Text

          @value={{changeset-get changeset 'Name'}}
           oninput={{action 'change' 'Name' changeset}}
         />
         <State @state={{el.state}} @matches="error">
           <el.Error>
             {{changeset-get changeset 'error.Name.validation'}}
           </el.Error>
         </State>
       </group.Element>
```

```
{{#if shouldShowValueField}}
      <group.Element
        @name="Value"
        @error={{changeset-get changeset 'error.Value'}}
      as |el|>
        <el.Label>Header {{lowercase (get headerLabels headerType)}}</el.Label>
        <el.Text
          @value={{changeset-get changeset 'Value'}}
          oninput={{action 'change' 'Value' changeset}}
        />
        <State @state={{el.state}} @matches="error">
          <el.Error>
            {{changeset-get changeset 'error.Value.validation'}}
          </el.Error>
        </State>
      </group.Element>
{{/if}}

    </div>
  </fieldset>
</FormGroup>
</div>
{
 "name": "envoy.filters.http.rbac",
 "typedConfig": {
   "@type": "type.googleapis.com/envoy.extensions.filters.http.rbac.v3.RBAC",
   "rules": {
     "policies": {
       "consul-intentions-layer7-0": {
         "permissions": [
           {
             "andRules": {
               "rules": [
                 {
                   "urlPath": {
                     "path": {
                       "prefix": "/v1"
                     }
                   }
                 },
                 {
                   "notRule": {
                     "urlPath": {
                       "path": {
                         "exact": "/v1/secret"
                       }
                     }
```

```
          }
        }
      ]
    }
  },
  {
    "andRules": {
      "rules": [
        {
          "andRules": {
            "rules": [
              {

          "urlPath": {
                "path": {
                  "safeRegex": {
                    "regex": "/v[123]"
                  }
                }
              }
            },
            {
              "header": {
                "name": ":method",
                "stringMatch": {
                  "safeRegex": {
                    "regex": "GET|HEAD|OPTIONS"
                  }
                }
              }
            }
          ]
          }
        },
        {
          "notRule": {
            "urlPath": {
              "path": {
                "exact": "/v1/secret"
              }
            }
          }
        },

{
          "notRule": {
            "andRules": {
              "rules": [
```

```
                {
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                    "path": {
                      "exact": "/v1/admin"
                    }
                  }
                },
                {
                  "header": {
                    "name": ":method",
                    "stringMatch": {
                      "safeRegex": {
                        "regex": "GET"
                      }
                    }
                  }
                }
              ]
            }
          }
        }
      ]
    }
  },
  {
    "andRules": {
      "rules": [
        {

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              "rules": [
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                    "name": "x-foo",
                    "presentMatch": true
                  }
                },
                {
                  "header": {
                    "name": "x-bar",
                    "stringMatch": {
                      "exact": "xyz"
                    }
                  }
                },
                {
                  "header": {
                    "name": "x-dib",
```

"stringMatch": {
"prefix": "gaz"
}
}
},
{
"header": {
"name": "x-gir",
"stringMatch": {

"suffix": "zim"
}
}
},
{
"header": {
"name": "x-zim",
"stringMatch": {
"safeRegex": {
"regex": "gi[rR]"
}
}
}
},
{
"header": {
"invertMatch": true,
"name": "z-foo",
"presentMatch": true
}
},
{
"header": {
"invertMatch": true,
"name": "z-bar",
"stringMatch": {
"exact": "xyz"

}
}
},
{
"header": {
"invertMatch": true,
"name": "z-dib",
"stringMatch": {
"prefix": "gaz"
}

```
            }
          },
          {
            "header": {
              "invertMatch": true,
              "name": "z-gir",
              "stringMatch": {
                "suffix": "zim"
              }
            }
          },
          {
            "header": {
              "invertMatch": true,
              "name": "z-zim",
              "stringMatch": {
                "safeRegex": {

            "regex": "gi[rR]"
                }
              }
            }
          }
        ]
      }
    },
    {
      "notRule": {
        "urlPath": {
          "path": {
            "exact": "/v1/secret"
          }
        }
      }
    },
    {
      "notRule": {
        "header": {
          "name": "x-baz",
          "presentMatch": true
        }
      }
    }
  ]
 }
}
],
"principals": [
```

```
          {
            "authenticated": {
              "principalName": {
                "safeRegex": {
                  "regex": "^spiffe://test.consul/ns/default/dc/[^/]+/svc/web$"
                }
              }
            }
          }
        ]
      }
    }
  }
}
{
 "name": "envoy.filters.network.rbac",
 "typedConfig": {
   "@type": "type.googleapis.com/envoy.extensions.filters.network.rbac.v3.RBAC",
   "rules": {},
   "statPrefix": "connect_authz"
 }
}
{
 "Valid": true,
 "License": {
   "license_id": "${fake.random.uuid()}",
   "customer_id": "${fake.random.uuid()}",
   "installation_id": "*",
   "issue_time": "2021-01-13T15:25:19.052900132Z",
   "start_time": "2021-01-13T00:00:00Z",
   "expiration_time": "${env('CONSUL_LICENSE_EXPIRATION', '2022-05-02T23:59:59.999Z')}",
   "termination_time": "${env('CONSUL_LICENSE_TERMINATION', '2022-01-13T23:59:59.999Z')}",
   "product": "consul",
   "flags": {
     "modules": [
       "global-visibility-routing-scale",
       "governance-policy"
     ]
   },
   "modules": [
     "Global Visibility, Routing and Scale",
     "Governance and Policy"
   ],
   "features": [
     "Automated Backups",
     "Automated Upgrades",
     "Enhanced Read Scalability",
```

"Network Segments",
"Redundancy Zone",
"Advanced Network Federation",
"Namespaces",
"SSO",
"Audit Logging",
"Admin Partitions"
]
},
"Warnings": [
]
}
{
"name": "envoy.filters.http.jwt_authn",
"typedConfig": {
"@type": "type.googleapis.com/envoy.extensions.filters.http.jwt_authn.v3.JwtAuthentication",
"providers": {
"okta": {
"issuer": "test-issuer",
"payloadInMetadata": "jwt_payload_okta",
"remoteJwks": {
"asyncFetch": {
"fastListener": true
},
"httpUri": {
"cluster": "jwks_cluster_okta",
"timeout": "1s",
"uri": "https://example-okta.com/.well-known/jwks.json"
}
}
}
},
"rules": [
{
"match": {
"prefix": "/"
},
"requires": {
"requiresAny": {
"requirements": [
{
"providerName": "okta"
},
{
"allowMissingOrFailed": {}
}
]
}

```
      }
    }
  ]
 }
}
/**
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* SPDX-License-Identifier: BUSL-1.1
*/

@import './skin';
@import './layout';
.consul-intention-permission-header-list {
 > ul > li {
   @extend %list-row-200;
 }
}
```

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```
{
 "name": "envoy.filters.http.rbac",
 "typedConfig": {
   "@type": "type.googleapis.com/envoy.extensions.filters.http.rbac.v3.RBAC",
   "rules": {
     "policies": {
       "consul-intentions-layer7-0": {
         "permissions": [
           {
             "andRules": {
               "rules": [
                 {
                   "andRules": {
                     "rules": [
                       {
                         "urlPath": {
                           "path": {
                             "prefix": "/v1"
                           }
                         }
                       },
```

```
            {
              "header": {
                "name": "x-foo",
                "presentMatch": true
              }
            }
          ]
        }
      },
      {
        "notRule": {
          "andRules": {

          "rules": [
              {
                "urlPath": {
                  "path": {
                    "exact": "/v1/secret"
                  }
                }
              },
              {
                "header": {
                  "name": "x-baz",
                  "presentMatch": true
                }
              },
              {
                "header": {
                  "name": "x-bar",
                  "presentMatch": true
                }
              }
            ]
          }
        }
      },
      {
        "notRule": {
          "andRules": {
            "rules": [
              {

"urlPath": {
                  "path": {
                    "exact": "/v1/admin"
                  }
                }
```

```
                    },
                    {
                      "header": {
                        "name": "x-baz",
                        "presentMatch": true
                      }
                    },
                    {
                      "header": {
                        "name": "x-bar",
                        "presentMatch": true
                      }
                    }
                  ]
                }
              }
            }
          ]
        }
      }
    ],
    "principals": [
      {
        "authenticated": {
          "principalName": {
            "safeRegex": {
              "regex": "^spiffe://test.consul/ns/default/dc/[^/]+/svc/web$"
            }
          }
        }
      }
    ]
  }
}
}
}
# License

```hbs preview-template
<figure>
 <figcaption>URI: <code>/:partition/:nspace/:dc/license</code></figcaption>
 <DataSource
   @src={{
     uri '/${partition}/${nspace}/${dc}/license'
     (hash
       partition='partition'
       nspace='ns'
```
```

```
      dc='dc-1'
    )
  }}
  @onchange={{action (mut data) value="data"}}
 />
 <pre><code>{{json-stringify data null 4}}</code></pre>
</figure>
```
---
page_title: Automated license utilization reporting
description: >-
 Learn what data HashiCorp collects to meter Enterprise license utilization. Enable or disable reporting. Review sample payloads and logs.

Automated license utilization reporting

This topic describes how to enable automated license utilization reporting in Consul Enterprise. This feature automatically sends license utilization data to HashiCorp so that you do not have to manually collect and report it. It also enables you to review your license usage with the monitoring solution you already use, such as Splunk and Datadog, as you optimize and manage your deployments.

Introduction

You can use automated license utilization report to understand how much additional networking infrastructure you can deploy under your current contract. This feature helps you protect against overutilization and budget for predicted consumption.

Automated reporting shares the minimum data required to validate license utilization
 as defined in our contracts. This data mostly consists of computed metrics, and it will never contain Personal Identifiable Information (PII) or other sensitive information. Automated reporting shares the data with HashiCorp using a secure unidirectional HTTPS API and makes an auditable record in the product logs each time it submits a report. This process is GDPR-compliant.

Requirements

Automated license utilization reporting does not support _air-gapped installations_, which are systems with no network interfaces.

The following versions of Consul Enterprise support automated license utilization reporting:

- Consul Enterprise v1.16.0 and newer.
- Patch releases of Consul Enterprise v1.15.4 and newer.
- Patch releases of Consul Enterprise v1.14.8 and newer.
- Patch releases of Consul Enterprise v1.13.9 and newer.

Download a supported release from the [Consul Versions](https://releases.hashicorp.com/consul/) page.

Enable automated reporting

Before you enable automated reporting,
 make sure that outbound network traffic is configured correctly and upgrade your enterprise product to a version that supports it. If your installation is air-gapped or network settings are not in place, automated reporting will not work.

To enable automated reporting, complete the following steps:

1. [Allow outbound HTTPS traffic on port 443](#allow-outbound-https-traffic)
1. [Check product logs](#check-product-logs)

Allow outbound HTTPS traffic on port 443

Make sure that your network allows HTTPS egress on port 443 from `https://reporting.hashicorp.services` by adding the following IP addresses to your allow-list:

- `100.20.70.12`
- `35.166.5.222`
- `23.95.85.111`
- `44.215.244.1`

Check product logs

Automatic license utilization reporting starts sending data within roughly 24 hours. Check the product logs for records that the data sent successfully.

<CodeBlockConfig hideClipboard>

```
[DEBUG] beginning snapshot export
[DEBUG] creating payload
[DEBUG] marshalling
 payload to json
[DEBUG] generating authentication headers
[DEBUG] creating request
[DEBUG] sending request
[DEBUG] performing request: method=POST url=https://census.license.hashicorp.services
[DEBUG] recording audit record
[INFO]  reporting: Report sent: auditRecord={"payload":{"payload_version":"1","license_id":"d2cdd857-4202-5a45-70a6-e4b531050c34","product":"consul","product_version":"1.16.0-dev+ent","export_timestamp":"2023-05-26T20:09:13.753921087Z","snapshots":[{"snapshot_version":1,"snapshot_id":"0001J724F90F4XWQDSAA76ZQWA","process_id":"01H1CTJPC1S8H7Q45MKTJ689ZW","timestamp":"2023-05-26T20:09:13.753513962Z","schema_version":"1.0.0","service":"consul","metrics":{"consul.billable.nodes":{"key":"consul.billable.nodes","kind":"counter","mode":"write","value":2},"consul.billable.service_instances":{"key":"consul.billable.service_instances","kind":"counter","mode":"write","value":2}}}],"metadata":{}}}
[DEBUG] completed recording audit record
[DEBUG] export finished successfully"
```

```

</CodeBlockConfig>

If
 your installation is air-gapped or your network does not allow the correct egress, the logs show an error.

<CodeBlockConfig hideClipboard>

```
[DEBUG] reporting: beginning snapshot export
[DEBUG] reporting: creating payload
[DEBUG] reporting: marshalling payload to json
[DEBUG] reporting: generating authentication headers
[DEBUG] reporting: creating request
[DEBUG] reporting: sending request
[DEBUG] reporting: performing request: method=POST url=https://census.license.hashicorp.services
[DEBUG] reporting: error status code received: statusCode=403
```

</CodeBlockConfig>

In this case, reconfigure your network to allow egress and check the logs again in roughly 24 hours to confirm that automated reporting works correctly.

## Opt out

If your installation is air-gapped or you want to manually collect and report on the same license utilization metrics, you can opt out of automated reporting.

Manually reporting these metrics can be time consuming. Opting
 out of automated reporting does not mean that you also opt out from sending license utilization metrics. Customers who opt out of automated reporting are still required to manually collect and send license utilization metrics to HashiCorp.

If you are considering opting out because you are worried about the data, we strongly recommend that you review the [example payloads](#example-payloads) before opting out. If you have concerns with any of the automatically reported data, raise these concerns with your account manager.

There are two methods for opting out of automated reporting:

- HCL configuration (recommended)
- Environment variable (requires restart)

We recommend opting out in your product's configuration file because it does not require a system restart. Add the following block to your `configuration.hcl` or `configuration.json` file.

```hcl

```
reporting {
 license {
  enabled = false
 }
}
```

When opting out using an environment variable, the system provides a startup message
 confirming that you have disabled automated reporting. Set the following environment variable to disable automated reporting:

<CodeBlockConfig>

```shell-session
$ export OPTOUT_LICENSE_REPORTING=true
```

</CodeBlockConfig>

After you set the environment variable, restart your system to complete the process for opting out.

```shell-session
$ consul reload
```

Check your product logs roughly 24 hours after opting out to make sure that the system is not trying to send reports. Keep in mind that if your configuration file and environment variable differ, the environment variable setting takes precedence.

Example payloads

HashiCorp collects the following utilization data as JSON payloads:
`exporter_version` - The version of the licensing exporter

<CodeBlockConfig hideClipboard>

```json
{
 "payload": {
   "payload_version": "1",
   "license_id": "d2cdd857-4202-5a45-70a6-e4b531050c34",
   "product": "consul",
   "product_version": "1.16.0-dev+ent",
   "export_timestamp":
 "2023-05-26T20:09:13.753921087Z",
   "snapshots": [
     {
```

```
      "snapshot_version": 1,
      "snapshot_id": "0001J724F90F4XWQDSAA76ZQWA",
      "process_id": "01H1CTJPC1S8H7Q45MKTJ689ZW",
      "timestamp": "2023-05-26T20:09:13.753513962Z",
      "schema_version": "1.0.0",
      "service": "consul",
      "metrics": {
        "consul.billable.nodes": {
          "key": "consul.billable.nodes",
          "kind": "counter",
          "mode": "write",
          "value": 2
        },
        "consul.billable.service_instances": {
          "key": "consul.billable.service_instances",
          "kind": "counter",
          "mode": "write",
          "value": 2
        }
      }
    }
  ],
  "metadata": {}
 }
}
```


</CodeBlockConfig>
---
layout: docs
page_title: Storing the Enterprise License in Vault
description: >-
 Configuring the Consul Helm chart to use an enterprise license stored in Vault.

Storing the Enterprise License in Vault

This topic describes how to configure the Consul Helm chart to use an enterprise license stored in Vault.
Overview
Complete the steps outlined in the [Data Integration](/consul/docs/k8s/deployment-configurations/vault/data-integration) section to use an enterprise license stored in Vault.

Complete the following steps once:
1. Store the secret in Vault.
1. Create a Vault policy that authorizes the desired level of access to the secret.

Repeat the following steps for each datacenter in the cluster:
1. Create Vault Kubernetes auth roles that link the policy to each Consul on Kubernetes service account that

requires access.
 1. Update the Consul on Kubernetes helm chart.

Prerequisites
Prior to setting up the data integration between Vault and Consul on Kubernetes,
 you will need to have:
1. Read and completed the steps in the [Systems Integration](/consul/docs/k8s/deployment-configurations/vault/systems-integration) section of [Vault as a Secrets Backend](/consul/docs/k8s/deployment-configurations/vault).
2. Read the [Data Integration Overview](/consul/docs/k8s/deployment-configurations/vault/data-integration) section of [Vault as a Secrets Backend](/consul/docs/k8s/deployment-configurations/vault).

Store the Secret in Vault

First, store the enterprise license in Vault:

```shell-session
$ vault kv put consul-kv/secret/enterpriselicense key="<enterprise license>"
```

Create Vault policy

Next, you will need to create a policy that allows read access to this secret.

The path to the secret referenced in the `path` resource is the same value that you will configure in the `global.enterpriseLicense.secretName` Helm configuration (refer to [Update Consul on Kubernetes Helm chart](#update-consul-on-kubernetes-helm-chart)).

<CodeBlockConfig
 filename="license-policy.hcl">

```HCL
path "consul-kv/data/secret/enterpriselicense" {
 capabilities = ["read"]
}
```

</CodeBlockConfig>

Apply the Vault policy by issuing the `vault policy write` CLI command:

```shell-session
$ vault policy write license-policy license-policy.hcl
```

Create Vault Authorization Roles for Consul

Next, you will create Kubernetes auth roles for the Consul server and client:

```shell-session
$ vault write auth/kubernetes/role/consul-server \
   bound_service_account_names=<Consul server service account> \
   bound_service_account_namespaces=<Consul installation namespace> \
   policies=license-policy \
   ttl=1h
```

```shell-session
$ vault write auth/kubernetes/role/consul-client \
   bound_service_account_names=<Consul client service account> \
   bound_service_account_namespaces=<Consul installation namespace> \
   policies=license-policy \
   ttl=1h
```

To find out the service account names of the Consul server and client,
you can
 run the following `helm template` commands with your Consul on Kubernetes values file:

- Generate Consul server service account name
 ```shell-session
 $ helm template --release-name ${RELEASE_NAME} -s templates/server-serviceaccount.yaml hashicorp/consul -f values.yaml
 ```

- Generate Consul client service account name
 ```shell-session
 $ helm template --release-name ${RELEASE_NAME} -s templates/client-serviceaccount.yaml hashicorp/consul -f values.yaml
 ```

Update Consul on Kubernetes Helm chart.

Now that you have configured Vault, you can configure the Consul Helm chart to
use the enterprise enterprise license in Vault:

<CodeBlockConfig filename="values.yaml">

```yaml
global:
 image: hashicorp/consul-enterprise:1.12.0-ent
 secretsBackend:
   vault:
     enabled: true
     consulServerRole: consul-server
     consulClientRole: consul-client
```

```
 enterpriseLicense:
   secretName: consul-kv/data/secret/enterpriselicense
   secretKey: key
```

</CodeBlockConfig>

Note
 that `global.enterpriseLicense.secretName` is the path of the secret in Vault.
This should be the same path as the one you included in your Vault policy.
`global.enterpriseLicense.secretKey` is the key inside the secret data. This should be the same
as the key you passed when creating the enterprise license secret in Vault.

```
{{!
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}}

<Hds::Alert @type='inline' @color={{or @type "neutral"}} class='mb-2 mt-2 consul-intention-notice-custom-
resource' as |A|>
 <A.Title>Intention Custom Resource</A.Title>
 <A.Description>Some of your intentions are being managed through an Intention Custom Resource in your
Kubernetes cluster. Those managed intentions will be view only in the UI. Any intentions created in the UI will
work but will not be synced to the Custom Resource Definition (CRD) datastore.</A.Description>
 <A.Link::Standalone @href="{{env 'CONSUL_DOCS_URL'}}/k8s/crds"
                @text='Learn more about CRDs'
                @icon="docs-link"
                @iconPosition="trailing"
                @size="small" />
</Hds::Alert>
/**
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*/

.consul-intention-permission-form {
 h2 {
   border-top: 1px solid var(--token-color-foreground-action);
   @extend %display-400-semibold;
 }
 button.type-submit {
   @extend %frame-blue-300;
 }
 button.type-submit:hover:not(:disabled),
 button.type-submit:focus:not(:disabled) {
   @extend %frame-blue-500;
 }
 button.type-submit:disabled {
   @extend %frame-blue-200;
```

```
 }
}

.consul-intention-view {
 h2 {
   @extend %display-400-semibold;
 }
}
```

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terms of the Mozilla Public License, v.
2.0. If a copy of the MPL was not
distributed with this file, You can
obtain one at
http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

This Source Code Form is "Incompatible
With Secondary Licenses", as defined by

the Mozilla Public License, v. 2.0.
---
layout: docs
page_title: Consul-Terraform-Sync Enterprise License
description: >-
Consul-Terraform-Sync Enterprise License

Consul-Terraform-Sync Enterprise License

<EnterpriseAlert>
Licenses are only required for Consul-Terraform-Sync (CTS) Enterprise
</EnterpriseAlert>

CTS Enterprise binaries require a [Consul Enterprise license](/consul/docs/enterprise/license/overview) to run. There is no CTS Enterprise specific license. As a result, CTS Enterprise's licensing is very similar to Consul Enterprise.

All CTS Enterprise features are available with a valid Consul Enterprise license, regardless of your Consul Enterprise packaging or pricing model.

To get a trial license for CTS, you can sign-up for the [trial license for Consul Enterprise](/consul/docs/enterprise/license/faq#q-where-can-users-get-a-trial-license-for-consul-enterprise).

Automatic License Retrieval
CTS automatically retrieves a license from Consul on startup and then attempts to retrieve a new license once a day. If the current license is reaching its expiration date, CTS attempts to retrieve a license with increased frequency, as defined by the [License Expiration Date Handling](/consul/docs/nia/enterprise/license#license-expiration-handling).

~> Enabling automatic license retrieval is recommended when using HCP Consul Dedicated, as HCP Consul Dedicated licenses expire more frequently than Consul Enterprise licenses. Without auto-retrieval enabled, you have to restart CTS every time you load a new license.

Setting the License Manually

If a license needs to be manually set, choose one of the following methods (in order of precedence) to set the license:

1. Set the `CONSUL_LICENSE` environment variable to the license string.

  ```shell-session
  export CONSUL_LICENSE=<LICENSE_VALUE>
  ```

1. Set the `CONSUL_LICENSE_PATH` environment variable to the path of the file containing the license.

  ```shell-session
  ```

```
export CONSUL_LICENSE_PATH=<PATH>/<TO>/<FILE>
```

1. To
point to the file containing the license, in the configuration file, configure the
[`license`](/consul/docs/nia/configuration#license) path option.

```hcl
license {
  path = "<PATH>/<TO>/<FILE>"
}
```

1. To point to the file containing the license, in the configuration file, configure the
[`license_path`](/consul/docs/nia/configuration#license_path) option i. **Deprecated in CTS 0.6.0 and will be removed in a future release. Use [license block](/consul/docs/nia/configuration#license) instead.**

```hcl
license_path = "<PATH>/<TO>/<FILE>"
```

~> **Note**: the [options to set the license and the order of
precedence](/consul/docs/enterprise/license/overview#binaries-without-built-in-licenses) are the same as Consul Enterprise server agents.
Visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs) for detailed steps on how to install the license key.

Updating the License Manually
To update the license
when it expires or is near the expiration date and automatic license retrieval is disabled:

1. Update the license environment variable or configuration with the new license value or path to the new license file
1. Stop and restart CTS Enterprise

Once CTS Enterprise starts again, it will pick up the new license and run the tasks with any changes that may have occurred between the stop and restart period.

License Expiration Handling

Licenses have an expiration date and a termination date. The termination date is a time at or after the license expires. CTS Enterprise will cease to function once the termination date has passed.

The time between the expiration and termination dates is a grace period. Grace periods are generally 24-hours, but you should refer to your license agreement for complete terms of your grace period.

When approaching expiration and termination, by default, CTS Enterprise will attempt to retrieve a new license. If auto-retrieval is disabled, CTS Enterprise will

provide notifications in the system logs:

Time period	Behavior - auto-retrieval enabled (default)	Behavior - auto-retrieval disabled
30 days before expiration	License retrieval attempt every 24-hours	Warning-level log every 24-hours
7 days before expiration	License retrieval attempt every 1 hour	Warning-level log every 1 hour
1 day before expiration	License retrieval attempt every 5 minutes	Warning-level log every 5 minutes
1 hour before expiration	License retrieval attempt every 1 minute	Warning-level log every 1 minute
At or after expiration (before termination)	License retrieval attempt every 1 minute	Error-level log every 1 minute
At or after termination	Error-level log and exit	Error-level log and exit

~> **Note**: Notification frequency and [grace period](/consul/docs/enterprise/license/faq#q-is-there-a-grace-period-when-licenses-expire) behavior is the same as Consul Enterprise.

```
{{!
 Copyright (c) HashiCorp, Inc.
 SPDX-License-Identifier: BUSL-1.1
}}

{{#if (gt items.length 0)}}
<ListCollection
 class="consul-intention-permission-list{{if (not onclick) ' readonly'}}"
 @scroll="native"
 @items={{items}}
 @partial={{5}}
as |item|>
 <BlockSlot @name="details">
   <div onclick={{action (optional onclick) item}}>
     <strong class={{concat 'intent-' item.Action}}>{{capitalize item.Action}}</strong>
{{#if (gt item.HTTP.Methods.length 0)}}
       <dl class="permission-methods">
         <dt>
           <Tooltip>
             Methods
           </Tooltip>
         </dt>
         <dd>
{{#each item.HTTP.Methods as |item|}}
           {{item}}
{{/each}}
         </dd>
       </dl>
{{/if}}
{{#if item.HTTP.Path}}
```

```
      <dl class="permission-path">
        <dt>
          <Tooltip>
            {{item.HTTP.PathType}}
          </Tooltip>
        </dt>
        <dd>
          {{item.HTTP.Path}}
        </dd>
      </dl>
{{/if}}
{{#each item.HTTP.Header
 as |item|}}
      <dl class="permission-header">
        <dt>
          <Tooltip>
            Header
          </Tooltip>
        </dt>
        <dd>
          {{item.Name}} {{route-match item}}
        </dd>
      </dl>
{{/each}}
  </div>
 </BlockSlot>
{{#if onclick}}
 <BlockSlot @name="actions" as |Actions|>
  <Actions as |Action|>
    <Action data-test-edit-action @onclick={{action (optional onclick) item}} @close={{true}}>
      <BlockSlot @name="label">
        Edit
      </BlockSlot>
    </Action>
    <Action data-test-delete-action @onclick={{action ondelete item}} class="dangerous">
      <BlockSlot @name="label">
        Delete
      </BlockSlot>
      <BlockSlot @name="confirmation" as |Confirmation|>
        <Confirmation class="warning">
          <BlockSlot @name="header">
            Confirm delete
          </BlockSlot>
          <BlockSlot @name="body">
            <p>
              Are you sure you
 want to delete this permission?
            </p>
```

```
          </BlockSlot>
          <BlockSlot @name="confirm" as |Confirm|>
            <Confirm>Delete</Confirm>
          </BlockSlot>
        </Confirmation>
      </BlockSlot>
    </Action>
  </Actions>
 </BlockSlot>
{{/if}}
</ListCollection>
{{/if}}
/*!
* clipboard.js v2.0.11
* https://clipboardjs.com/
*
* Licensed MIT  Zeno Rocha
*/

/*!
* focus-trap 6.9.4
* @license MIT, https://github.com/focus-trap/focus-trap/blob/master/LICENSE
*/

/*! ******************************************************************************
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REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.
******************************************************************************
 */

/**
* @license
* Copyright 2017 Google LLC
* SPDX-License-Identifier: BSD-3-Clause
*/

/**
* @license
```

* Copyright 2019 Google LLC
* SPDX-License-Identifier: BSD-3-Clause
*/
---
layout: commands
page_title: 'Commands: License'
description: >
 The license command provides a datacenter-level view of the Consul
 Enterprise license.

Consul License

Command: `consul license`

<EnterpriseAlert />

The `license` command provides a list of all datacenters that use the Consul Enterprise license applied to the current datacenter.

~> **Warning**: Consul 1.10.0 removed the ability to set and reset the license using the CLI.
See the [licensing documentation](/consul/docs/enterprise/license/overview) for more information about
Consul Enterprise license management.

If ACLs are enabled then a token with operator privileges may be required in
order to use this command. Requests are forwarded internally to the leader
if required, so this can be run from any Consul node in a cluster. See the
[ACL Guide](/consul/tutorials/security/access-control-setup-production) for more information.

```text
Usage: consul license <subcommand> [options] [args]

 This command has subcommands
 for managing the Consul Enterprise license
 Here are some simple examples, and more detailed examples are
 available in the subcommands or the documentation.

 Install a new license from a file:

    $ consul license put @consul.license

 Install a new license from stdin:

    $ consul license put -

 Install a new license from a string:

    $ consul license put "<license blob>"
```

Retrieve the current license:

$ consul license get

Inspect a license:

$ consul license inspect "<path to license file>"

Reset the current license:

$ consul license reset

For more examples, ask for subcommand help or view the documentation.

Subcommands:
  get Get the active license
  inspect Inspect a signed license
  put Puts a new license in the datacenter
  reset Resets the license in the datacenter

```

## inspect

This command inspects and validates a license. Just like a Consul agent it
can load the license from a file
 on disk or from the `CONSUL_LICENSE` and
`CONSUL_LICENSE_PATH` environment variables.

Usage: `consul license inspect [<options>] [<license file>]`

Inspect a license contained in a file:

```
$ consul license inspect consul.hclic
```

Inspect a license loaded from the environment:

```
$ consul license inspect
```

This will look at the CONSUL_LICENSE environment variable first
and if not present then we will look for the file specified
by the CONSUL_LICENSE_PATH environment variable.
```

The output looks like this:

```
Source: /consul/config/consul.hclic (path from the CONSUL_LICENSE_PATH environment variable)
Product: consul
License ID: 6089174b-a713-74cf-4c8d-856b86f1ce50
Customer ID: 7c020610-60a2-7ccb-c210-20d899e5f3b4
Installation ID: *
Issue Time: 2020-09-14 19:45:56.212195875 +0000 UTC
Start Time: 2020-09-14 00:00:00 +0000 UTC
Expiration Time: 2021-09-14 23:59:59.999 +0000 UTC
Termination Time: 2021-09-14 23:59:59.999 +0000 UTC
Modules:
    Global Visibility, Routing and Scale
     Governance and Policy
Features:
    Automated Backups
    Automated Upgrades
    Enhanced Read Scalability
    Network Segments
    Redundancy Zone
    Advanced Network Federation
    Namespaces
    SSO
    Audit Logging
    Admin Partitions

License is valid

```

put

-> **Deprecated** The ability to manage the cluster's license via the CLI
was removed in Consul 1.10. While the CLI command still exists it will
always return an error. This command will be fully removed in a future release.

Corresponding HTTP API Endpoint: [\[PUT\] /v1/operator/license](/consul/api-docs/operator/license#updating-the-consul-license)

This command sets the Consul Enterprise license.

The table below shows this command's [required ACLs](/consul/api-docs/api-structure#authentication). Configuration of
[blocking queries](/consul/api-docs/features/blocking) and [agent caching](/consul/api-docs/features/caching) are not supported from commands, but may be
 from the corresponding HTTP endpoint.

ACL Required
`operator:write`

Usage: `consul license put [options] LICENSE`

The output looks like this:

```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
    Automated Backups
    Automated Upgrades
    Enhanced Read Scalability
    Network Segments
    Redundancy Zone
    Advanced Network Federation
```

API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

get

Corresponding HTTP API Endpoint: [\[GET\] /v1/operator/license](/consul/api-docs/operator/license#getting-the-consul-license)

This command gets the Consul Enterprise license. If the leader hasn't been updated with the newer license, the followers
will display the outdated license in their GET output.

The table below
shows this command's [required ACLs](/consul/api-docs/api-structure#authentication). Configuration of [blocking queries](/consul/api-docs/features/blocking) and [agent caching](/consul/api-docs/features/caching) are not supported from commands, but may be from the corresponding HTTP endpoint.

ACL Required
`none`

Usage: `consul license get [options]`

The output looks like this:

```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
	Automated Backups
	Automated Upgrades
	Enhanced Read Scalability
	Network Segments
	Redundancy Zone
	Advanced Network Federation
```

API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

reset

-> **Deprecated** The ability to manage the cluster's license via the CLI
was
 removed in Consul 1.10. While the CLI command still exists it will
always return an error. This command will be fully removed in a future release.

Corresponding HTTP API Endpoint: [\[DELETE\] /v1/operator/license](/consul/api-docs/operator/license#resetting-the-consul-license)

Resets license for the datacenter to the one builtin in Consul binary, if it is still valid.
If the builtin license is invalid, the current one stays active.

The table below shows this command's [required ACLs](/consul/api-docs/api-structure#authentication). Configuration of
[blocking queries](/consul/api-docs/features/blocking) and [agent caching](/consul/api-docs/features/caching)
are not supported from commands, but may be from the corresponding HTTP endpoint.

ACL Required
`operator:write`

Usage: `consul license reset [options]`

The output looks like this:

```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires
 At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
	Automated Backups
	Automated Upgrades
	Enhanced Read Scalability
	Network Segments
	Redundancy Zone
	Advanced Network Federation
```

API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

.agentless-node-notice .hds-alert__title {
 display: flex;
 justify-content: space-between;
}
Mozilla Public License 2.0 (MPLv2.0)
{
 "name": "envoy.filters.http.rbac",
 "typedConfig": {
   "@type": "type.googleapis.com/envoy.extensions.filters.http.rbac.v3.RBAC",
   "rules": {
     "policies": {
       "consul-intentions-layer7-0": {
         "permissions": [
           {
             "andRules": {
               "rules": [
                 {

```
  "andRules": {
    "rules": [
      {
        "urlPath": {
          "path": {
            "prefix": "/v1"
          }
        }
      },
      {
        "header": {
          "name": "x-foo",
          "presentMatch": true
        }
      }
    ]
  }
},
{
  "notRule": {
    "andRules": {

    "rules": [
        {
          "urlPath": {
            "path": {
              "exact": "/v1/secret"
            }
          }
        },
        {
          "header": {
            "name": "x-baz",
            "presentMatch": true
          }
        },
        {
          "header": {
            "name": "x-bar",
            "presentMatch": true
          }
        }
      ]
    }
  }
},
{
  "notRule": {
```

```
            "andRules": {
              "rules": [
                {

    "urlPath": {
                  "path": {
                    "exact": "/v1/admin"
                  }
                }
              },
              {
                "header": {
                  "name": "x-baz",
                  "presentMatch": true
                }
              },
              {
                "header": {
                  "name": "x-bar",
                  "presentMatch": true
                }
              }
            ]
          }
        }
      }
    ]
  }
},
{
  "andRules": {
    "rules": [
      {
        "andRules": {
          "rules": [
            {

"urlPath": {
                "path": {
                  "prefix": "/v2"
                }
              }
            },
            {
              "header": {
                "name": "x-foo",
                "presentMatch": true
              }
```

```
            }
          ]
        }
      },
      {
        "notRule": {
          "andRules": {
            "rules": [
              {
                "urlPath": {
                  "path": {
                    "exact": "/v2/secret"
                  }
                }
              },
              {
                "header": {
                  "name": "x-baz",
                  "presentMatch":
true
                }
              },
              {
                "header": {
                  "name": "x-bar",
                  "presentMatch": true
                }
              }
            ]
          }
        }
      },
      {
        "notRule": {
          "andRules": {
            "rules": [
              {
                "urlPath": {
                  "path": {
                    "exact": "/v2/admin"
                  }
                }
              },
              {
                "header": {
                  "name": "x-baz",
                  "presentMatch": true
                }
```

```
                    },

            {
                      "header": {
                        "name": "x-bar",
                        "presentMatch": true
                      }
                    }
                  ]
                }
              }
            }
          ]
        }
      }
      ],
      "principals": [
        {
          "authenticated": {
            "principalName": {
              "safeRegex": {
                "regex": "^spiffe://test.consul/ns/default/dc/[^/]+/svc/web$"
              }
            }
          }
        }
      ]
    }
  }
 }
}
{
 "name": "envoy.filters.http.rbac",
 "typedConfig": {
  "@type": "type.googleapis.com/envoy.extensions.filters.http.rbac.v3.RBAC",
  "rules": {
    "policies": {
      "consul-intentions-layer7-0": {
        "permissions": [
          {
            "andRules": {
              "rules": [
                {
                  "urlPath": {
                    "path": {
                      "prefix": "some-path"
                    }
```

```
        }
      },
      {
        "andRules": {
          "rules": [
            {
              "metadata": {
                "filter": "envoy.filters.http.jwt_authn",
                "path": [
                  {
                    "key": "jwt_payload_okta"
                  },
                  {
                    "key": "iss"
                  }

                ],
                "value": {
                  "stringMatch": {
                    "exact": "mytest.okta-issuer"
                  }
                }
              }
            },
            {
              "metadata": {
                "filter": "envoy.filters.http.jwt_authn",
                "path": [
                  {
                    "key": "jwt_payload_okta"
                  },
                  {
                    "key": "roles"
                  }
                ],
                "value": {
                  "stringMatch": {
                    "exact": "testing"
                  }
                }
              }
            }

]
        }
      }
    ]
  }
```

```
          }
        ],
        "principals": [
          {
            "authenticated": {
              "principalName": {
                "safeRegex": {
                  "regex": "^spiffe://test.consul/ns/default/dc/[^/]+/svc/web$"
                }
              }
            }
          }
        ]
      }
    }
  }
 }
}
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

section[data-route='dc.show.license'] {
 @extend %license-route;
}
%license-route .validity {
 @extend %license-validity;
}
%license-route aside {
 @extend %license-route-learn-more;
}

%license-route h2 {
 @extend %display-400-semibold;
}

%license-validity p {
 color: var(--token-color-foreground-faint);
}
%license-validity dl {
 @extend %horizontal-kv-list;
 @extend %body-300-regular;
}
%license-validity dl .expired + dd {
 @extend %visually-hidden;
}
%license-validity dl dt::before {
```

```
 content: '';
 margin-right: 0.25rem; /* 4px */
}
%license-validity dl .expired::before {
 --icon-name: icon-x-circle;
 --icon-color: var(--token-color-foreground-critical);
}
%license-validity dl .warning::before {
 --icon-name: icon-alert-circle;
 --icon-color: var(--token-color-foreground-warning);
}
%license-validity dl .valid:not(.warning)::before {
 --icon-name: icon-check-circle;
 --icon-color: var(--token-color-foreground-success);
}

%license-route-learn-more
 {
 @extend %panel;
 box-shadow: none;
 padding: var(--padding-y) var(--padding-x);
 width: 40%;
 min-width: 413px;
 margin-top: 1rem; /* 16px */
}
%license-route-learn-more header > :first-child {
 @extend %display-300-semibold;
}
%license-route-learn-more header {
 margin-bottom: 1rem; /* 16px */
}
{{!
 Copyright (c) HashiCorp, Inc.
 SPDX-License-Identifier: BUSL-1.1
}}

<Route
 @name={{routeName}}
as |route|>
 <DataLoader
   @src={{
     uri '/${partition}/${nspace}/${dc}/license'
     (hash
       partition=route.params.partition
       nspace=route.params.nspace
       dc=route.params.dc
     )
   }}
```

```
 as |loader|>

{{#let
 loader.data
as |item|}}
  <BlockSlot @name="error">
    <ErrorState
      @error={{loader.error}}
      @login={{route.model.app.login.open}}
    />
  </BlockSlot>

  <BlockSlot @name="disconnected" as |after|>
    {{#if (eq loader.error.status "404")}}
      <Hds::Toast @color='warning'
        {{notification
          sticky=true
        }} as |T|>
        <T.Title>Warning!</T.Title>
        <T.Description>This service has been deregistered and no longer exists in the catalog.</T.Description>
      </Hds::Toast>
    {{else if (eq loader.error.status "403")}}
      <Hds::Toast @color='critical'
        {{notification
           sticky=true
        }} as |T|>
        <T.Title>Error!</T.Title>
        <T.Description>You no longer have access to this service.</T.Description>
      </Hds::Toast>
    {{else}}
      <Hds::Toast @color='warning'
        {{notification
          sticky=true
        }} as |T|>
        <T.Title>Warning!</T.Title>
        <T.Description>An error was returned whilst loading this data, refresh to try again.</T.Description>
      </Hds::Toast>
    {{/if}}
  </BlockSlot>

  <BlockSlot @name="loaded">
    <div class="tab-section">
      <section
        class={{class-map
          'validity'
          (array 'valid' item.Valid)
        }}
      >
```

```
    <header>
      <h2>
        {{compute (fn route.t 'expiry.header')}}
      </h2>
    </header>

    <p>
      {{compute (fn route.t 'expiry.${type}.body'
        (hash
          type=(if item.Valid 'valid' 'expired')

  date=(format-time item.License.expiration_time
            year='numeric'
            month='long'
            day='numeric'
          )
          time=(format-time item.License.expiration_time
            hour12=true
            hour='numeric'
            hourCycle='h12'
            minute='numeric'
            second='numeric'
            timeZoneName='short'
          )
          htmlSafe=true
        )
      )}}
    </p>

    <dl>
      <dt class={{class-map
          (array 'valid' item.Valid)
          (array 'expired' (not item.Valid))
          (array 'warning' (temporal-within item.License.expiration_time 2629800000))
        }}
      >
        {{compute (fn route.t 'expiry.${type}.header'
          (hash
            type=(if item.Valid 'valid' 'expired')
          )
        )}}
      </dt>

<dd>
        {{temporal-format item.License.expiration_time}}
      </dd>
    </dl>
```

```
        <aside>
          <header>
            <h3>
              {{compute (fn route.t 'documentation.title')}}
            </h3>
          </header>
          <div class="flex gap-1.5 flex-col">
            <Hds::Link::Standalone
              @text={{compute (fn route.t 'documentation.links.license-expiration.text')}}
              @href='{{concat (env 'CONSUL_DOCS_URL') (compute (fn route.t 'documentation.links.license-
expiration.link'))}}'
              @icon='docs-link'
              @iconPosition='trailing'
            />
            <Hds::Link::Standalone
              @text={{compute (fn route.t 'documentation.links.renewing-license.text')}}
              @href='{{concat (env 'CONSUL_DOCS_URL') (compute (fn route.t 'documentation.links.renewing-
license.link'))}}'
              @icon='docs-link'
              @iconPosition='trailing'

          />
            <Hds::Link::Standalone
              @text={{compute (fn route.t 'documentation.links.applying-new-license.text')}}
              @href='{{concat (env 'CONSUL_DOCS_URL') (compute (fn route.t 'documentation.links.applying-new-
license.link'))}}'
              @icon='docs-link'
              @iconPosition='trailing'
            />
          </div>
        </aside>

      </section>
    </div>
  </BlockSlot>
{{/let}}
 </DataLoader>
</Route>
// Copyright (c) HashiCorp, Inc.
// SPDX-License-Identifier: MPL-2.0

package api

import (
 "io"
 "strings"
 "time"
)
```

```
type License struct {
 // The unique identifier of the license
 LicenseID string `json:"license_id"`

 // The customer ID associated with the license
 CustomerID string `json:"customer_id"`

 // If set, an identifier that should be used to lock the license to a
 // particular site, cluster, etc.
 InstallationID string `json:"installation_id"`

 // The time at which the license was issued
 IssueTime time.Time `json:"issue_time"`

 // The time at which the license starts being valid
 StartTime time.Time `json:"start_time"`

 // The time after which the license expires
 ExpirationTime time.Time `json:"expiration_time"`

 // The time at which the license ceases to function and can
 // no longer be used in any capacity
 TerminationTime time.Time `json:"termination_time"`

 // Whether the license will ignore termination
 IgnoreTermination bool `json:"ignore_termination"`

 //
 The product the license is valid for
 Product string `json:"product"`

 // License Specific Flags
 Flags map[string]interface{} `json:"flags"`

 // Modules is a list of the licensed enterprise modules
 Modules []string `json:"modules"`

 // List of features enabled by the license
 Features []string `json:"features"`
}

type LicenseReply struct {
 Valid    bool
 License  *License
 Warnings []string
}
```

```
func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
 var reply LicenseReply
 if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
  return nil, err
 } else {
  return &reply, nil
 }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
 r := op.c.newRequest("GET", "/v1/operator/license")
 r.params.Set("signed", "1")
 r.setQueryOptions(q)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return "", err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
  return "", err
 }

 data, err := io.ReadAll(resp.Body)
 if
 err != nil {
  return "", err
 }

 return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license stays active.
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
 var reply LicenseReply
 r := op.c.newRequest("DELETE", "/v1/operator/license")
 r.setWriteOptions(opts)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return nil, err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
  return nil, err
 }
```

```
 if err := decodeBody(resp, &reply); err != nil {
  return nil, err
 }
 return &reply, nil
}

// LicensePut will configure the Consul Enterprise license for the target datacenter
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set
 via agent configuration instead of through the API
func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
 var reply LicenseReply
 r := op.c.newRequest("PUT", "/v1/operator/license")
 r.setWriteOptions(opts)
 r.body = strings.NewReader(license)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return nil, err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
  return nil, err
 }

 if err := decodeBody(resp, &reply); err != nil {
  return nil, err
 }

 return &reply, nil
}
/**
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* SPDX-License-Identifier: BUSL-1.1
*/

.consul-intention-permission-header-list {
 dt::before {
   @extend %with-glyph-icon;
   content: 'H';
 }
}
/**
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*/

.consul-intention-permission-list {
```

```
 dt::before {
   @extend %with-glyph-icon;
 }
 dl.permission-methods dt::before {
   content: 'M';
 }
 dl.permission-path dt::before {
   content: 'P';
 }
 dl.permission-header dt::before {
   content: 'H';
 }
}
---
layout: docs
page_title: Enterprise Licenses
description: >-
 Consul Enterprise server, client, and snapshot agents require a license on startup in order to use Enterprise features.
Learn how to apply licenses using environment variables or configuration files.
---

# Consul Enterprise License

## Licensing Overview

All Consul Enterprise agents must be licensed when they are started. Where that license comes from will depend
on which binary is in use, whether the agent is a server, client or snapshot agent, and whether ACLs have been
enabled for the cluster.

-> ** Consul Enterprise 1.10.0 removed temporary licensing.** Prior to 1.10.0, Consul Enterprise
agents could start without a license and then have a license applied to them later on via the CLI
or API. That functionality has been removed and replaced with the ability to load licenses from the
agent's configuration or environment. Also, prior to 1.10.0, server agents would automatically propagate
the license between themselves.
 This no longer occurs and the license must be present on each server agent
when it is started.

Consul Enterprise 1.14.0, when running on Kubernetes, removed client agents and replaced these with virtual
agents.
Virtual agents are nodes that Consul service mesh services run on. HashiCorp uses virtual agents to determine
license entitlements for customers on per-node licensing and pricing agreements.

-> Visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-
license?utm_source=docs) for detailed steps on how to install the license key.

### Applying a License

For Consul Enterprise 1.10.0 or greater, a license must be available at the time the agent starts.
```

For server agents this means that they must either have the [`license_path`](/consul/docs/agent/config/config-files#license_path)
configuration set or have a license configured in the servers environment with the `CONSUL_LICENSE` or `CONSUL_LICENSE_PATH` environment variables. Both the configuration
item and the `CONSUL_LICENSE_PATH`
environment variable point to a file containing the license whereas the `CONSUL_LICENSE` environment variable should contain the license as the value. If multiple variables are set,
the following order of precedence applies:

1. `CONSUL_LICENSE` environment variable
2. `CONSUL_LICENSE_PATH` environment variable
3. `license_path` configuration item.

Client agents and [snapshot agents](/consul/docs/enterprise/backups)
may also be licensed in the very same manner.
However, to avoid the need to configure the license on many client agents and snapshot agents,
those agents have the capability to retrieve the license automatically under the conditions described below.

Virtual agents do not need the license to run.

Updating the license for an agent depends on the method you used to apply the license.
- **If you used the `CONSUL_LICENSE`
environment variable**: After updating the environment variable, restart the affected agents.
- **If you used the
`CONSUL_LICENSE_PATH`
environment variable**: Update the license file first. Then, restart the affected agents.
- **If you used the `license_path` configuration item**: Update the license file first. Then, run [`consul reload`](/consul/commands/reload) for the affected agents.

Client Agent License Retrieval

When a client agent starts without a license in its configuration or environment, it will try to retrieve the license from the servers via RPCs. That RPC always requires a valid non-anonymous ACL token to authorize the request but the token doesn't need any particular permissions. As the license is required before the client actually joins the cluster, where to make those RPC requests to is inferred from the [`retry_join`](/consul/docs/agent/config/config-files#retry_join) configuration. If `retry_join` is unset or no [`agent` token](/consul/docs/agent/config/config-files#acl_tokens_agent) is set then the client agent will immediately shut itself down.

If all preliminary checks
pass the client agent will attempt to reach out to any server on its RPC port to
request the license. These requests will be retried for up to 5 minutes and if it is unable to retrieve a license within that time frame it will shut itself down.

If ACLs are disabled then the license must be provided to the client agent through one of the three methods listed below.
Failure in providing the client agent with a licence will prevent the client agent from joining the cluster.

1. `CONSUL_LICENSE` environment variable
2. `CONSUL_LICENSE_PATH` environment variable
3. `license_path` configuration item.

Snapshot Agent License Retrieval

The snapshot agent has similar functionality to the client agent for automatically retrieving the license. However, instead of requiring a server agent to talk to, the snapshot agent can request the license from the server or client agent it would use for all other operations. It still requires an ACL token to authorize the request. Also like client agents,
 the snapshot agent will shut itself down after being unable to retrieve the license for 5
minutes.

```
/**
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*/

.consul-intention-permission-list {
 .detail > div {
   display: flex;
   width: 100%;
 }
 strong {
   margin-right: 8px;
 }
}
{{!
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}}

{{#if isVisible}}
 <Hds::Alert @type="inline" class='mb-3 mt-2 agentless-node-notice' data-test-node-agentless-notice as |A|>
   <A.Title>
     <span>{{t 'routes.dc.nodes.index.agentless.notice.header'}}</span>
     <Hds::Button
       @color='secondary'
       @text='Dismiss notice'
       {{on 'click' this.dismissAgentlessNotice}}
       @icon='x'
       @size='small'
       @isIconOnly={{true}}
     />
   </A.Title>
   <A.Description>{{t 'routes.dc.nodes.index.agentless.notice.body'}}</A.Description>
   <A.Link::Standalone @href='{{env "CONSUL_DOCS_DEVELOPER_URL"}}/connect/dataplane'
                       @text={{t 'routes.dc.nodes.index.agentless.notice.footer'}}
                       @icon='docs-link'
```

```
                @iconPosition='trailing' />
 </Hds::Alert>
{{/if}}
/*!
* QUnit 2.19.4
* https://qunitjs.com/
*
* Copyright OpenJS Foundation and other contributors
* Released under the MIT license
* https://jquery.org/license
*/
{{!
 Copyright (c) HashiCorp, Inc.
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}}

<Hds::Alert @type="inline" class="mb-3 mt-2" as |A|>
 <A.Description>{{t "components.consul.intention.notice.permissions.body"}}</A.Description>
 <A.Link::Standalone
   @text={{t "components.consul.intention.notice.permissions.footer"}}
   @href="{{env 'CONSUL_DOCS_URL'}}/connect/intentions"
   @icon="docs-link"
   @iconPosition="trailing"
   @size="small"
 />
</Hds::Alert>
```

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Parameters

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```
{
 "name": "envoy.filters.http.jwt_authn",
 "typedConfig": {
   "@type": "type.googleapis.com/envoy.extensions.filters.http.jwt_authn.v3.JwtAuthentication",
   "providers": {
     "auth0": {
       "issuer": "another-issuer",
       "payloadInMetadata": "jwt_payload_auth0",
       "remoteJwks": {
         "asyncFetch": {
           "fastListener": true
         },
         "httpUri": {
           "cluster": "jwks_cluster_auth0",
           "timeout": "1s",
           "uri": "https://example-auth0.com/.well-known/jwks.json"
         }
       }
     },
     "okta": {
       "issuer": "test-issuer",
       "payloadInMetadata": "jwt_payload_okta",
```

```
      "remoteJwks": {
        "asyncFetch": {
          "fastListener": true
        },
        "httpUri": {
          "cluster": "jwks_cluster_okta",
          "timeout": "1s",
          "uri": "https://example-okta.com/.well-known/jwks.json"
        }
      }
    }
  },
  "rules": [
    {

"match": {
        "prefix": "/"
      },
      "requires": {
        "requiresAll": {
          "requirements": [
            {
              "requiresAny": {
                "requirements": [
                  {
                    "providerName": "okta"
                  },
                  {
                    "allowMissingOrFailed": {}
                  }
                ]
              }
            },
            {
              "requiresAny": {
                "requirements": [
                  {
                    "providerName": "auth0"
                  },
                  {
                    "allowMissingOrFailed": {}
                  }
                ]
              }
            }
          ]
        }
      }
```

```
    }
  ]
 }
}
{{!
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}}

<div
 ...attributes
 class="consul-intention-permission-form"
>
<FormGroup
 @name={{name}}
as |group|>

 {{yield (hash
   submit=(action 'submit' changeset)
   reset=(action 'reset' changeset)

   isDirty=(and changeset.isValid)
   changeset=changeset
 )}}

 <fieldset>
   <div data-property="action">
     <span class="label">
       Should this permission allow the source connect to the destination?
     </span>
     <div role="radiogroup" class={{if changeset.error.Action ' has-error'}}>
       {{#each intents as |intent|}}
         <label>
           <span>{{capitalize intent}}</span>
           <input
             type="radio"
             name="Action"
             value={{intent}}
             checked={{if (eq changeset.Action intent) 'checked'}}
             onchange={{action (changeset-set changeset 'Action') value="target.value"}}
           />
         </label>
       {{/each}}
     </div>
   </div>
 </fieldset>

 <fieldset>
```

```
  <header>
    <h2>Path</h2>
  </header>
  <div>
      <group.Element
        @name="PathType"
        @type="select"
      as |el|>
        <el.Label>
          Path type
        </el.Label>
        <PowerSelect
          @options={{pathTypes}}
          @selected={{pathType}}
          @onChange={{action 'change' 'HTTP.PathType' changeset}} as |Type|>
            {{get pathLabels Type}}
        </PowerSelect>
      </group.Element>

{{#if shouldShowPathField}}
      <group.Element
        @name="Path"
        @error={{changeset-get changeset 'error.HTTP.Path'}}
      as |el|>
        <el.Label>
          {{get pathLabels pathType}}
        </el.Label>
        <el.Text
          @value={{changeset-get changeset 'HTTP.Path'}}
          oninput={{action 'change' 'HTTP.Path' changeset}}
        />
        <State @state={{el.state}} @matches="error">
          <el.Error>

            {{#if (eq (changeset-get changeset 'HTTP.Path') 'Regex')}}
              Path Regex should not be blank
            {{else}}
              Path should begin with a '/'
            {{/if}}
          </el.Error>
        </State>
      </group.Element>
{{/if}}

  </div>
 </fieldset>

 <fieldset>
```

```
  <h2>Methods</h2>
  <div class="type-toggle">
    <span>All methods are applied by default unless specified</span>
    <group.Element
      @name="allMethods"
    as |el|>
      <el.Checkbox
        checked={{if allMethods 'checked'}}
        onchange={{action 'change' 'allMethods' changeset}}
      />
      <el.Label>
        All Methods
      </el.Label>
    </group.Element>
  </div>

{{#if shouldShowMethods}}
  <div class="checkbox-group" role="group">
    {{#each methods as |method|}}
      <label class="type-checkbox">
        <input
          type="checkbox"
          name="method"
          value={{method}}

  checked={{if (includes method changeset.HTTP.Methods) 'checked'}}
          onchange={{action 'change' 'method' changeset}}
        />
        <span>{{method}}</span>
      </label>
    {{/each}}
  </div>
{{/if}}
 </fieldset>

 <fieldset>
  <h2>Headers</h2>

  <Consul::Intention::Permission::Header::List
    @items={{changeset-get changeset 'HTTP.Header'}}
    @ondelete={{action 'delete' 'HTTP.Header' changeset}}
  as |headerList|>

  </Consul::Intention::Permission::Header::List>

  <Consul::Intention::Permission::Header::Form
    @onsubmit={{action 'add' 'HTTP.Header' changeset}}
  as |headerForm|>
```

```
    <Ref @target={{this}} @name="headerForm" @value={{headerForm}} />
  </Consul::Intention::Permission::Header::Form>

  <Hds::ButtonSet>
    <Hds::Button
      data-test-add-header
      @text='Add{{if (gt (get (changeset-get changeset 'HTTP.Header') 'length') 0) ' another' ''}} header'
      @color='primary'
      disabled={{if (not this.headerForm.isDirty)
'disabled'}}
      onclick={{action this.headerForm.submit}}
    />
    <Hds::Button
      @text='Cancel'
      @color='secondary'
      onclick={{action this.headerForm.reset}}
    />
  </Hds::ButtonSet>
 </fieldset>
 </FormGroup>
</div>
```

1.5290 x-time-rate 0.7.0

1.5290.1 Available under license :

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1.5291 pax-utils 1.3.8-r1

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in the modified Library refers to a function or a
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is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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1.5293 json-c 0.18-r0

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1.5294 apparmor 4.0.1really4.0.1-0ubuntu0.24.04.3

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limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable
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changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user
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1.5295 uuid 8.3.2

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1.5297 containers-common 0.60.2

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package spec

import (
 "encoding/json"

 "github.com/go-openapi/swag"
)

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 LicenseProps
 VendorExtensible
}

// LicenseProps holds the properties of a License object
type LicenseProps struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}

// UnmarshalJSON
 hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
 if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
  return err
 }
 return json.Unmarshal(data, &l.VendorExtensible)
}

// MarshalJSON produces License as json
```

```
func (l License) MarshalJSON() ([]byte, error) {
 b1, err := json.Marshal(l.LicenseProps)
 if err != nil {
  return nil, err
 }
 b2, err := json.Marshal(l.VendorExtensible)
 if err != nil {
  return nil, err
 }
 return swag.ConcatJSON(b1, b2), nil
}
```

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to make via an [issue](https://github.com/sigstore/rekor/issues).

Pull Request Process

1. Create an [issue](https://github.com/sigstore/rekor/issues)
  outlining the fix or feature.
2. Fork the rekor repository to your own github account and clone it locally.
3. Hack on your changes.
4. Update the README.md with details of changes to any interface, this includes new environment
  variables, exposed ports, useful file locations, CLI parameters and
  new or changed configuration values.
5. Correctly format your commit message see [Commit Messages](#Commit Message Guidelines)
  below.
6. Ensure that CI passes, if it fails, fix the failures.
7. Every pull request requires a review from the [core rekor
team](https://github.com/orgs/github.com/sigstore/teams/core-team)
  before merging.
8. If your pull request consists of more than one commit, please squash your
  commits as described in
 [Squash Commits](#Squash Commits)

Commit Message Guidelines

We follow the commit formatting recommendations found on [Chris Beams' How to Write a Git Commit Message article]((https://chris.beams.io/posts/git-commit/).

Well formed commit messages not only help reviewers understand the nature of
the Pull Request, but also assists the release process where commit messages
are used to generate release notes.

A good example of a commit message would be as follows:

```
Summarize changes in around 50 characters or less

More detailed explanatory text, if necessary. Wrap it to about 72
characters or so. In some contexts, the first line is treated as the
subject of the commit and the rest of the text as the body. The
blank line separating the summary from the body is critical (unless
you omit the body entirely); various tools like `log`, `shortlog`
and `rebase` can get confused if you run the two together.

Explain the problem that this commit is solving. Focus on why you
are making this
 change as opposed to how (the code explains that).
Are there side effects or other unintuitive consequences of this
change? Here's the place to explain them.

Further paragraphs come after blank lines.

- Bullet points are okay, too
```

- Typically a hyphen or asterisk is used for the bullet, preceded
  by a single space, with blank lines in between, but conventions
  vary here

If you use an issue tracker, put references to them at the bottom,
like this:

Resolves: #123
See also: #456, #789
```

Note the `Resolves #123` tag, this references the issue raised and allows us to
ensure issues are associated and closed when a pull request is merged.

Please refer to [the github help page on message types](https://help.github.com/articles/closing-issues-using-keywords/)
for a complete list of issue references.

## Squash Commits

Should your pull request consist of more than one commit (perhaps due to
a change being requested during the review cycle), please perform a git squash
once a reviewer
 has approved your pull request.

A squash can be performed as follows. Let's say you have the following commits:

```
initial commit
second commit
final commit
```

Run the command below with the number set to the total commits you wish to
squash (in our case 3 commits):

```
git rebase -i HEAD~3
```

You default text editor will then open up and you will see the following::

```
pick eb36612 initial commit
pick 9ac8968 second commit
pick a760569 final commit

# Rebase eb1429f..a760569 onto eb1429f (3 commands)
```

We want to rebase on top of our first commit, so we change the other two commits
to `squash`:

```
pick eb36612 initial commit
```
```

```
squash 9ac8968 second commit
squash a760569 final commit
```

After this, should you wish to update your commit message to better summarise
all of your pull request, run:

```
git commit --amend
```

You will then need to force push (assuming your initial commit(s) were posted
to github):

```
git push origin your-branch --force
```

Alternatively,
a core member can squash your commits within Github.
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1.5298 kubernetes-client 0.30.3

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1.5299 normalize-package-data 7.0.0

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1.5300 @npmcli/node-gyp 4.0.0

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1.5301 @npmcli/arborist 8.0.0

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1.5303 write-file-atomic 6.0.0

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1.5305 @npmcli/map-workspaces 4.0.1

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1.5307 npm-package-arg 12.0.0

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1.5308 cacache 19.0.1

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1.5309 unique-filename 4.0.0

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1.5310 read 4.0.0

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1.5311 minipass-fetch 4.0.0

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1.5312 parse-conflict-json 4.0.0

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1.5313 proggy 3.0.0

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1.5315 @npmcli/fs 4.0.0

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1.5326 @npmcli/package-json 6.0.1

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1.5343 validate-npm-package-name 6.0.0

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1.5355 npmcli-installed-package-contents 3.0.0

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1.5356 jaeger-lib 2.4.2-0.20210604143007-135cf5605a6d+incompatible

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1.5357 antlr 4.13.2

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Found in path(s):
* /opt/cola/permits/2224916300_1729024207.2615368/0/antlr4-4-13-2-jar/org/antlr/v4/tool/templates/codegen/TypeScript/TypeScript.stg

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*/

atn(startState, states, edges, rankdir, decisionRanks, useBox) ::= <<
digraph ATN {
rankdir=LR;
<decisionRanks; separator="\n">
<states; separator="\n">
<edges; separator="\n">
}
>>

dfa(name, startState, states, edges, rankdir, decisionRanks, useBox) ::= <<
digraph <name>  {
<if(rankdir)>rankdir=<rankdir>;<endif>
<decisionRanks; separator="\n">
<states; separator="\n">
<edges;
```

```
 separator="\n">
}
>>

decision-rank(states) ::= <<
{rank=same; rankdir=TB; <states:{s | s<s>}; separator="; ">}
>>

edge(src,target,label,arrowhead,transitionIndex) ::= <<
<src><if(transitionIndex)>:p<transitionIndex><endif> -> <target> [fontsize=11, fontname="Courier", arrowsize=.7,
label = "<label>"<if(arrowhead)>, arrowhead = <arrowhead><endif>];
>>

action-edge(src,target,label,arrowhead,transitionIndex) ::= <<
<src><if(transitionIndex)>:p<transitionIndex><endif> -> <target> [fontsize=11, fontname="Courier", arrowsize=.7,
label = "<label>"<if(arrowhead)>, arrowhead = <arrowhead><endif>];
>>

epsilon-edge(src,label,target,arrowhead,transitionIndex,loopback=false) ::= <<
<src><if(transitionIndex)>:p<transitionIndex><endif> -> <target> [fontname="Times-Italic",
label="&epsilon;"<if(loopback)>, style="dashed"<endif>];
>>

state(state, label, name, transitions) ::= <%
<name>[fontsize=11,
  label="
      <! rest(transition) tests for decision states: these nodes have a non-empty
 set of transitions after the first one. !>
      <if(rest(transitions))>
         {
         <! Label on the left side of the record node. !>
         <label>
         |
         <! Named ports in order on right side of record node, no display text. !>
         {<transitions:{t|\<p<i0>>}; separator="|">}}
      <else>
         <label>
      <endif>
      "
  <if(rest(transitions))>
      , shape=record, fixedsize=false
  <else>
      , shape=circle, fixedsize=true, width=.55
  <endif>
  , peripheries=1];
%>

stopstate(name,label,actionIndex,useBox) ::= <<
```

<name>[fontsize=11, label="<label><if(actionIndex)>,\naction:<actionIndex><endif>",
<if(useBox)>shape=polygon,sides=4,peripheries=2,fixedsize=false<else>shape=doublecircle, fixedsize=true,
width=.6<endif>];
>>

Found in path(s):
* /opt/cola/permits/2224916300_1729024207.2615368/0/antlr4-4-13-2-jar/org/antlr/v4/tool/templates/dot/graphs.stg
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* /opt/cola/permits/2224916300_1729024207.2615368/0/antlr4-4-13-2-
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*/

// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<namedActions.header>
using System;
using System.IO;
using System.Text;
using System.Diagnostics;
using System.Collections.Generic;
using
 Antlr4.Runtime;
using Antlr4.Runtime.Atn;
using Antlr4.Runtime.Misc;
```

```
using Antlr4.Runtime.Tree;
using DFA = Antlr4.Runtime.Dfa.DFA;

<parser>
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>
using Antlr4.Runtime.Misc;
using IParseTreeListener = Antlr4.Runtime.Tree.IParseTreeListener;
using IToken = Antlr4.Runtime.IToken;

/// \<summary>
/// This interface defines a complete listener for a parse tree produced by
/// \<see cref="<file.parserName>"/>.
/// \</summary>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public interface I<file.grammarName>Listener : IParseTreeListener {
 <file.listenerNames:{lname |
/// \<summary>
<if(file.listenerLabelRuleNames.(lname))>
/// Enter a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in
 \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>.
<else>
/// Enter a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
void Enter<lname; format="cap">([NotNull] <file.parserName>.<lname; format="cap">Context context);
/// \<summary>
<if(file.listenerLabelRuleNames.(lname))>
/// Exit a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>.
<else>
/// Exit a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
void Exit<lname; format="cap">([NotNull] <file.parserName>.<lname; format="cap">Context context);};
```

```
separator="\n">
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace
 <file.genPackage> {
<endif>
<header>

using Antlr4.Runtime.Misc;
using IErrorNode = Antlr4.Runtime.Tree.IErrorNode;
using ITerminalNode = Antlr4.Runtime.Tree.ITerminalNode;
using IToken = Antlr4.Runtime.IToken;
using ParserRuleContext = Antlr4.Runtime.ParserRuleContext;

/// \<summary>
/// This class provides an empty implementation of \<see cref="I<file.grammarName>Listener"/>,
/// which can be extended to create a listener which only needs to handle a subset
/// of the available methods.
/// \</summary>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.Diagnostics.DebuggerNonUserCode]
[System.CLSCompliant(false)]
public partial class <file.grammarName>BaseListener : I<file.grammarName>Listener {
 <file.listenerNames:{lname |
/// \<summary>
<if(file.listenerLabelRuleNames.(lname))>
/// Enter a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>.
<else>
///
 Enter a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \<para>The default implementation does nothing.\</para>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
public virtual void Enter<lname; format="cap">([NotNull] <file.parserName>.<lname; format="cap">Context
context) { \}
/// \<summary>
<if(file.listenerLabelRuleNames.(lname))>
/// Exit a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>.
```

```
<else>
/// Exit a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \<para>The default implementation does nothing.\</para>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
public virtual void Exit<lname; format="cap">([NotNull] <file.parserName>.<lname; format="cap">Context
context) { \}}; separator="\n">

 /// \<inheritdoc/>
 /// \<remarks>The default implementation does nothing.\</remarks>
 public
 virtual void EnterEveryRule([NotNull] ParserRuleContext context) { }
 /// \<inheritdoc/>
 /// \<remarks>The default implementation does nothing.\</remarks>
 public virtual void ExitEveryRule([NotNull] ParserRuleContext context) { }
 /// \<inheritdoc/>
 /// \<remarks>The default implementation does nothing.\</remarks>
 public virtual void VisitTerminal([NotNull] ITerminalNode node) { }
 /// \<inheritdoc/>
 /// \<remarks>The default implementation does nothing.\</remarks>
 public virtual void VisitErrorNode([NotNull] IErrorNode node) { }
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>
using Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
using IToken = Antlr4.Runtime.IToken;

/// \<summary>
/// This interface defines a complete generic visitor for a parse tree produced
/// by \<see cref="<file.parserName>"/>.
///
 \</summary>
/// \<typeparam name="Result">The return type of the visit operation.\</typeparam>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public interface I<file.grammarName>Visitor\<Result> : IParseTreeVisitor\<Result> {
 <file.visitorNames:{lname |
```

```
/// \<summary>
<if(file.visitorLabelRuleNames.(lname))>
/// Visit a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.visitorLabelRuleNames.(lname)>"/>.
<else>
/// Visit a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
/// \<return>The visitor result.\</return>
Result Visit<lname; format="cap">([NotNull] <file.parserName>.<lname; format="cap">Context context);};
separator="\n">
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName,
 file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>
using Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
using IToken = Antlr4.Runtime.IToken;
using ParserRuleContext = Antlr4.Runtime.ParserRuleContext;

/// \<summary>
/// This class provides an empty implementation of \<see cref="I<file.grammarName>Visitor{Result}"/>,
/// which can be extended to create a visitor which only needs to handle a subset
/// of the available methods.
/// \</summary>
/// \<typeparam name="Result">The return type of the visit operation.\</typeparam>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.Diagnostics.DebuggerNonUserCode]
[System.CLSCompliant(false)]
public partial class <file.grammarName>BaseVisitor\<Result> : AbstractParseTreeVisitor\<Result>,
I<file.grammarName>Visitor\<Result> {
 <file.visitorNames:{lname |
/// \<summary>
<if(file.visitorLabelRuleNames.(lname))>
/// Visit a parse tree produced by the \<c><lname>\</c>
///
 labeled alternative in \<see cref="<file.parserName>.<file.visitorLabelRuleNames.(lname)>"/>.
<else>
```

```
/// Visit a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \<para>
/// The default implementation returns the result of calling \<see
cref="AbstractParseTreeVisitor{Result\}.VisitChildren(IRuleNode)"/>
/// on \<paramref name="context"/>.
/// \</para>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
/// \<return>The visitor result.\</return>
public virtual Result Visit<lname; format="cap">([NotNull] <file.parserName>.<lname; format="cap">Context
context) { return VisitChildren(context); \}}; separator="\n">
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
//------------------------------------------------------------------------------
// \<auto-generated>
//     This code was generated by a tool.
//     ANTLR Version: <ANTLRVersion>
//
//     Changes to this file may
 cause incorrect behavior and will be lost if
//     the code is regenerated.
// \</auto-generated>
//------------------------------------------------------------------------------

// Generated from <grammarFileName> by ANTLR <ANTLRVersion>

// Unreachable code detected
#pragma warning disable 0162
// The variable '...' is assigned but its value is never used
#pragma warning disable 0219
// Missing XML comment for publicly visible type or member '...'
#pragma warning disable 1591
// Ambiguous reference in cref attribute
#pragma warning disable 419

>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
```

```
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <parser.name> : <superClass; null="Parser"> {
 protected static DFA[] decisionToDFA;
 protected static PredictionContextCache sharedContextCache = new PredictionContextCache();
 <if(parser.tokens)>
 public
 const int
  <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator=", ", wrap, anchor>;
 <endif>
 <if(parser.rules)>
 public const int
  <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
 <endif>
 public static readonly string[] ruleNames = {
  <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
 };

 <vocabulary(parser.literalNames, parser.symbolicNames)>

 public override string GrammarFileName { get { return "<parser.grammarFileName>"; } }

 public override string[] RuleNames { get { return ruleNames; } }

 public override int[] SerializedAtn { get { return _serializedATN; } }

 static <parser.name>() {
  decisionToDFA = new DFA[_ATN.NumberOfDecisions];
  for (int i = 0; i \< _ATN.NumberOfDecisions; i++) {
   decisionToDFA[i] = new DFA(_ATN.GetDecisionState(i), i);
  }
 }

 <namedActions.members>
 <parser:(ctor)()>
 <funcs; separator="\n">

<if(sempredFuncs)>
 public override bool Sempred(RuleContext
 _localctx, int ruleIndex, int predIndex) {
  switch (ruleIndex) {
  <parser.sempredFuncs.values:{f|
case <f.ruleIndex>: return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">
  }
  return true;
 }
 <sempredFuncs.values; separator="\n">
<endif>
```

```
 <atn>
}
>>

vocabulary(literalNames, symbolicNames) ::= <<
private static readonly string[] _LiteralNames = {
 <literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
};
private static readonly string[] _SymbolicNames = {
 <symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
};
public static readonly IVocabulary DefaultVocabulary = new Vocabulary(_LiteralNames, _SymbolicNames);

[NotNull]
public override IVocabulary Vocabulary
{
 get
 {
  return DefaultVocabulary;
 }
}
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
public override void Action(RuleContext _localctx, int ruleIndex, int actionIndex) {
 switch (ruleIndex) {
 <recog.actionFuncs.values:{f|
case
 <f.ruleIndex> : <f.name>_action(<if(!recog.modes)>(<f.ctxType>)<endif>_localctx, actionIndex); break;};
separator="\n">
 }
}
<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
public override bool Sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
 switch (ruleIndex) {
 <recog.sempredFuncs.values:{f|
case <f.ruleIndex> : return <f.name>_sempred(<if(!recog.modes)>(<f.ctxType>)<endif>_localctx, predIndex);};
separator="\n">
 }
 return true;
}
<sempredFuncs.values; separator="\n">
<endif>
>>
```

```
parser_ctor(parser) ::= <<
 public <parser.name>(ITokenStream input) : this(input, Console.Out, Console.Error) { }

 public <parser.name>(ITokenStream input, TextWriter output, TextWriter errorOutput)
 : base(input, output, errorOutput)
{
 Interpreter = new ParserATNSimulator(this, _ATN, decisionToDFA, sharedContextCache);
}
>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r,
 actions) ::= <<
private void <r.name>_action(<r.ctxType> _localctx, int actionIndex) {
 switch (actionIndex) {
 <actions:{index|
case <index>: <actions.(index)> break;}; separator="\n">
 }
}
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
private bool <r.name>_sempred(<r.ctxType> _localctx, int predIndex) {
 switch (predIndex) {
 <actions:{index|
case <index>: return <actions.(index)>;}; separator="\n">
 }
 return true;
}
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

<if(ruleCtx)>
<ruleCtx>
<endif>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

[RuleVersion(<namedActions.version; null="0">)]
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public <endif><currentRule.ctxType>
<currentRule.escapedName>(<args; separator=", ">) {
```

```
 <currentRule.ctxType>
 _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | , <a.escapedName>}>);
 EnterRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>);
 <namedActions.init>
 <locals; separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 }
 <if(exceptions)>
 <exceptions; separator="\n">
 <else>
 catch (RecognitionException re) {
  _localctx.exception = re;
  ErrorHandler.ReportError(this, re);
  ErrorHandler.Recover(this, re);
 }
 <endif>
 finally {
  <finallyAction>
  ExitRule();
 }
 return _localctx;
}
>>

LeftFactoredRuleFunction(currentRule,args,code,locals,namedActions,finallyAction,postamble) ::=
<<

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>private <endif><currentRule.ctxType>
<currentRule.escapedName>(<args; separator=", ">) {
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | ,
<a.escapedName>}>);
 EnterLeftFactoredRule(_localctx,
 <currentRule.startState>, RULE_<currentRule.variantOf>);
 <namedActions.init>
 <locals; separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
```

```
 }
 catch (RecognitionException re) {
  _localctx.exception = re;
  ErrorHandler.ReportError(this, re);
  ErrorHandler.Recover(this, re);
 }
 finally {
  <finallyAction>
  ExitRule();
 }
 return _localctx;
}
>>

// This behaves similar to RuleFunction (enterRule is called, and no adjustments
// are made to the parse tree), but since it's still a variant no context class
// needs to be generated.
LeftUnfactoredRuleFunction(currentRule,args,code,locals,namedActions,finallyAction,postamble) ::=
<<

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>private <endif><currentRule.ctxType>
<currentRule.escapedName>(<args; separator=", ">) {
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context,
 State<currentRule.args:{a | , <a.escapedName>}>);
 EnterRule(_localctx, <currentRule.startState>, RULE_<currentRule.variantOf>);
 <namedActions.init>
 <locals; separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 }
 catch (RecognitionException re) {
  _localctx.exception = re;
  ErrorHandler.ReportError(this, re);
  ErrorHandler.Recover(this, re);
 }
 finally {
  <finallyAction>
  ExitRule();
 }
 return _localctx;
}
>>
```

```
LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
 namedActions,finallyAction,postamble) ::=
<<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

[RuleVersion(<namedActions.version; null="0">)]
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public <endif><currentRule.ctxType>
<currentRule.escapedName>(<args; separator=", ">) {
 return <currentRule.escapedName>(0<currentRule.args:{a | , <a.escapedName>}>);
}

private <currentRule.ctxType>
 <currentRule.escapedName>(int _p<args:{a | , <a>}>) {
 ParserRuleContext _parentctx = Context;
 int _parentState = State;
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, _parentState<currentRule.args:{a | ,
<a.escapedName>}>);
 <currentRule.ctxType> _prevctx = _localctx;
 int _startState = <currentRule.startState>;
 EnterRecursionRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>, _p);
 <namedActions.init>
 <locals; separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 }
 catch (RecognitionException re) {
  _localctx.exception = re;
  ErrorHandler.ReportError(this, re);
  ErrorHandler.Recover(this, re);
 }
 finally {
  <finallyAction>
  UnrollRecursionContexts(_parentctx);
 }
 return _localctx;
}
>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx = new
```

```
 <currentOuterMostAltCodeBlock.altLabel; format="cap">Context(_localctx);<endif>
EnterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
{
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
}
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<if(choice.label)><labelref(choice.label)> = TokenStream.LT(1);<endif>
<preamble; separator="\n">
switch (TokenStream.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
 <alt>
 break;}; separator="\n">
default:
 <error>
}
>>

LL1OptionalBlock(choice, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
switch (TokenStream.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
 <alt>
 break;}; separator="\n">
default:
 break;
}
>>

LL1OptionalBlockSingleAlt(choice, expr, alts,
 preamble, error, followExpr) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<preamble; separator="\n">
if (<expr>) {
 <alts; separator="\n">
}
<!else if ( !(<followExpr>) ) <error>!>
```

```
>>

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<preamble; separator="\n">
while (<loopExpr>) {
 <alts; separator="\n">
 State = <choice.loopBackStateNumber>;
 ErrorHandler.Sync(this);
 <iteration>
}
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
State = <choice.blockStartStateNumber>;<! alt block decision !>
ErrorHandler.Sync(this);
<preamble; separator="\n">
do {
 <alts; separator="\n">
 State = <choice.stateNumber>;<! loopback/exit decision !>
 ErrorHandler.Sync(this);
 <iteration>
} while ( <loopExpr> );
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<if(choice.label)><labelref(choice.label)> = TokenStream.LT(1);<endif>
<preamble;
 separator="\n">
switch ( Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context) ) {
<alts:{alt |
case <i>:
 <alt>
 break;}; separator="\n">
}
>>

OptionalBlock(choice, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
switch ( Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context) ) {
<alts:{alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
```

```
 <alt>
 break;}; separator="\n">
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
_alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
while ( _alt!=<choice.exitAlt> && _alt!=global::Antlr4.Runtime.Atn.ATN.INVALID_ALT_NUMBER ) {
 if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {
  <iteration>
  <alts> <! should only be one !>
 }
 State = <choice.loopBackStateNumber>;
 ErrorHandler.Sync(this);
 _alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
}
>>

PlusBlock(choice,
 alts, error) ::= <<
State = <choice.blockStartStateNumber>;<! alt block decision !>
ErrorHandler.Sync(this);
_alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
 switch (_alt) {
 <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n">
 default:
  <error>
 }
 State = <choice.loopBackStateNumber>;<! loopback/exit decision !>
 ErrorHandler.Sync(this);
 _alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
} while ( _alt!=<choice.exitAlt> && _alt!=global::Antlr4.Runtime.Atn.ATN.INVALID_ALT_NUMBER );
>>

Sync(s) ::= "Sync(<s.expecting.name>);"

ThrowNoViableAlt(t) ::= "throw new NoViableAltException(this);"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.tokens)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>
```

```
// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) &
 ~0x3f) == 0
>>

// produces smaller bytecode only when bits.tokens contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((1L \<\< <offsetShift(s.varName, bits.shift)>) &
<bits.calculated>L) != 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShift(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

bitsetInlineComparison(s, bits) ::= <%
<bits.tokens:{t | <s.varName>==<tokenType.(t.name)>}; separator=" || ">
%>

cases(tokens) ::= <<
<tokens:{t | case <tokenType.(t.name)>:}; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
State = <r.stateNumber>;
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif><r.escapedName>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprs
Chunks>);
>>

MatchToken(m) ::= <<
State = <m.stateNumber>;
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>Match(<tokenType.(m.name)>);
>>

MatchSet(m,
 expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
```

```
State = <m.stateNumber>;
<if(m.labels)><m.labels:{l | <labelref(l)> = }>TokenStream.LT(1);<endif>
<capture>
if ( <if(invert)><m.varName> \<= 0 || <else>!<endif>(<expr>) ) {
 <if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>ErrorHandler.RecoverInline(this);
}
else {
 ErrorHandler.ReportMatch(this);
   Consume();
}
>>

Wildcard(w) ::= <<
State = <w.stateNumber>;
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>MatchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
State = <p.stateNumber>;
if (!(<chunks>)) throw new FailedPredicateException(this, <p.predicate><if(failChunks)>,
<failChunks><elseif(p.msg)>, <p.msg><endif>);
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>)
 {
 <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "Skip();"
LexerMoreCommand()  ::= "More();"
LexerPopModeCommand() ::= "PopMode();"

LexerTypeCommand(arg, grammar)      ::= "_type = <tokenType.(arg)>;"
LexerChannelCommand(arg, grammar)   ::= "_channel = <channelName.(arg)>;"
LexerModeCommand(arg, grammar)      ::= "_mode = <modeName.(arg)>;"
LexerPushModeCommand(arg, grammar)  ::= "PushMode(<modeName.(arg)>);"

ActionText(t) ::= "<t.text>"
```

```
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<a.escapedName>"
LocalRef(a) ::= "_localctx.<a.escapedName>"
RetValueRef(a) ::= "_localctx.<a.escapedName>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.escapedName>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<tokenType.(t.escapedName)>"
LabelRef(t) ::= "<ctx(t)>.<t.escapedName>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.escapedName)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.escapedName> = <rhsChunks>;"

TokenLabelType()
 ::= "<file.TokenLabelType; null={IToken}>"
InputSymbolType() ::= "<file.InputSymbolType; null={IToken}>"

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Text:null)"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Type:0)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Line:0)"
TokenPropertyRef_pos(t) ::=
"(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.CharPositionInLine:0)"
TokenPropertyRef_channel(t) ::=
"(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Channel:0)"
TokenPropertyRef_index(t) ::=
"(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.TokenIndex:0)"
TokenPropertyRef_int(t) ::=
"(<ctx(t)>.<tokenType.(t.label)>!=null?int.Parse(<ctx(t)>.<tokenType.(t.label)>.Text):0)"

RulePropertyRef_start(r) ::= "(<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.Start):null)"
RulePropertyRef_stop(r)
 ::= "(<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.Stop):null)"
RulePropertyRef_text(r)  ::=
"(<ctx(r)>.<r.label>!=null?TokenStream.GetText(<ctx(r)>.<r.label>.Start,<ctx(r)>.<r.label>.Stop):null)"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "this"

ThisRulePropertyRef_start(r) ::= "_localctx.Start"
ThisRulePropertyRef_stop(r)  ::= "_localctx.Stop"
ThisRulePropertyRef_text(r)  ::= "TokenStream.GetText(_localctx.Start, TokenStream.LT(-1))"
ThisRulePropertyRef_ctx(r)  ::= "_localctx"
ThisRulePropertyRef_parser(r)  ::= "this"

NonLocalAttrRef(s)   ::= <%((<s.ruleName;
format="cap">Context)GetInvokingContext(<s.ruleIndex>)).<s.escapedName>%>
SetNonLocalAttr(s, rhsChunks)   ::=
 <%((<s.ruleName; format="cap">Context)GetInvokingContext(<s.ruleIndex>)).<s.escapedName> =
<rhsChunks>;%>

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.Add(<labelref(a.label)>);"
```

```
TokenDecl(t) ::= "<TokenLabelType()> <tokenType.(t.escapedName)>"
TokenTypeDecl(t)
 ::= "int <tokenType.(t.escapedName)>;"
TokenListDecl(t) ::= "IList\<IToken> <tokenType.(t.escapedName)> = new List\<IToken>()"
RuleContextDecl(r) ::= "<r.ctxName> <r.escapedName>"
RuleContextListDecl(rdecl) ::= "IList\<<rdecl.ctxName>> <rdecl.escapedName> = new List\<<rdecl.ctxName>>()"

contextGetterCollection(elementType) ::= <%
<elementType>[]
%>

ContextTokenGetterDecl(t)      ::=
   "[System.Diagnostics.DebuggerNonUserCode] public ITerminalNode <tokenType.(t.name)>() { return
GetToken(<parser.name>.<tokenType.(t.name)>, 0); }"
ContextTokenListGetterDecl(t)  ::= <<
[System.Diagnostics.DebuggerNonUserCode] public <contextGetterCollection("ITerminalNode")>
<tokenType.(t.name)>() { return GetTokens(<parser.name>.<tokenType.(t.name)>); }
>>
ContextTokenListIndexedGetterDecl(t)  ::= <<
[System.Diagnostics.DebuggerNonUserCode] public ITerminalNode <tokenType.(t.name)>(int i) {
 return GetToken(<parser.name>.<tokenType.(t.name)>, i);
}
>>
ContextRuleGetterDecl(r)       ::= <<
[System.Diagnostics.DebuggerNonUserCode]
 public <r.ctxName> <r.escapedName>() {
 return GetRuleContext\<<r.ctxName>\>(0);
}
>>
ContextRuleListGetterDecl(r)   ::= <<
[System.Diagnostics.DebuggerNonUserCode] public <contextGetterCollection({<r.ctxName>})>
<r.escapedName>() {
 return GetRuleContexts\<<r.ctxName>\>();
}
>>
ContextRuleListIndexedGetterDecl(r)   ::= <<
[System.Diagnostics.DebuggerNonUserCode] public <r.ctxName> <r.escapedName>(int i) {
 return GetRuleContext\<<r.ctxName>\>(i);
}
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
* r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"
```

```
ImplicitTokenLabel(tokenName) ::= "_<tokenType.(tokenName)>"
ImplicitRuleLabel(ruleName)   ::= "_<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)    ::= "_<label>"

CaptureNextToken(d) ::= "<d.varName> = TokenStream.LT(1);"
CaptureNextTokenType(d) ::= "<d.varName> = TokenStream.LA(1);"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,signatures,
        superClass={ParserRuleContext}) ::= <<
public partial class <struct.escapedName> :
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)>, <interfaces;
separator=", "><endif> {
 <attrs:{a | public <a>;}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 <if(ctorAttrs)>public <struct.escapedName>(ParserRuleContext parent, int invokingState) : base(parent,
invokingState) { }<endif>
 public <struct.escapedName>(ParserRuleContext parent, int invokingState<ctorAttrs:{a | , <a>}>)
  : base(parent, invokingState)
 {
  <struct.ctorAttrs:{a | this.<a.escapedName> = <a.escapedName>;}; separator="\n">
 }
 public override int RuleIndex { get { return RULE_<struct.derivedFromName>; } }
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
 public <struct.escapedName>() { }
 public virtual void CopyFrom(<struct.escapedName> context) {
  base.CopyFrom(context);
  <struct.attrs:{a
| this.<a.escapedName> = context.<a.escapedName>;}; separator="\n">
 }
<endif>
 <dispatchMethods; separator="\n">
 <extensionMembers; separator="\n">
}
>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
public partial class <struct.escapedName> : <currentRule.name; format="cap">Context {
 <attrs:{a | public <a>;}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 public <struct.escapedName>(<currentRule.name; format="cap">Context context) { CopyFrom(context); }
 <dispatchMethods; separator="\n">
}
>>

ListenerDispatchMethod(method) ::= <<
[System.Diagnostics.DebuggerNonUserCode]
```

```
public override void <if(method.isEnter)>Enter<else>Exit<endif>Rule(IParseTreeListener listener) {
 I<parser.grammarName>Listener typedListener = listener as I<parser.grammarName>Listener;
 if (typedListener != null) typedListener.<if(method.isEnter)>Enter<else>Exit<endif><struct.derivedFromName;
format="cap">(this);
}
>>

VisitorDispatchMethod(method) ::= <<
[System.Diagnostics.DebuggerNonUserCode]
public
 override TResult Accept\<TResult>(IParseTreeVisitor\<TResult> visitor) {
 I<parser.grammarName>Visitor\<TResult> typedVisitor = visitor as I<parser.grammarName>Visitor\<TResult>;
 if (typedVisitor != null) return typedVisitor.Visit<struct.derivedFromName; format="cap">(this);
 else return visitor.VisitChildren(this);
}
>>

AttributeDecl(d) ::= "<d.type> <d.escapedName><if(d.initValue)> = <d.initValue><endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)><typedContext(x.ctx)>.<endif><x.escapedName>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "<typedContext(actionChunk.ctx)>"

// only casts _localctx to the type when the cast isn't redundant (i.e. to a sub-context for a labeled alt)
typedContext(ctx) ::= "<if(ctx.provideCopyFrom)>((<ctx.name>)_localctx)<else>_localctx<endif>"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)
  ::= "Precpred(Context, <opPrec>)"
recRuleSetReturnAction(src,name)   ::= "$<name>=$<src>.<name>;"
recRuleSetStopToken()              ::= "Context.Stop = TokenStream.LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
_localctx = new <ctxName>Context(_parentctx, _parentState);
<if(label)>
<if(isListLabel)>
_localctx.<label>.Add(_prevctx);
<else>
_localctx.<label> = _prevctx;
<endif>
<endif>
PushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
_localctx = new <currentAltLabel; format="cap">Context(new <ruleName; format="cap">Context(_parentctx,
```

```
_parentState));
<if(label)>
<if(isListLabel)>
((<currentAltLabel; format="cap">Context)_localctx).<label>.Add(_prevctx);
<else>
((<currentAltLabel; format="cap">Context)_localctx).<label> = _prevctx;
<endif>
<endif>
PushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName)
 ::= <<
_localctx = new <ctxName>Context(_localctx);
Context = _localctx;
_prevctx = _localctx;
>>

recRuleSetPrevCtx() ::= <<
if ( ParseListeners!=null )
 TriggerExitRuleEvent();
_prevctx = _localctx;
>>


LexerFile(file, lexer, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<namedActions.header>
using System;
using System.IO;
using System.Text;
using Antlr4.Runtime;
using Antlr4.Runtime.Atn;
using Antlr4.Runtime.Misc;
using DFA = Antlr4.Runtime.Dfa.DFA;

<lexer>
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
```

```
public partial class <lexer.name> : <superClass; null="Lexer"> {
 protected static DFA[] decisionToDFA;
 protected static PredictionContextCache sharedContextCache = new PredictionContextCache();
 <if(lexer.tokens)>
 public
 const int
  <lexer.tokens:{k | <tokenType.(k)>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
 <endif>
 <if(lexer.escapedChannels)>
 public const int
  <lexer.escapedChannels:{k | <k>=<lexer.escapedChannels.(k)>}; separator=", ", wrap, anchor>;
 <endif>
 <if(rest(lexer.escapedModeNames))>
 public const int
  <rest(lexer.escapedModeNames):{m | <m>=<i>}; separator=", ", wrap, anchor>;
 <endif>
 public static string[] channelNames = {
  "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channelNames)>, <lexer.channelNames:{c| "<c>"};
separator=", ", wrap, anchor><endif>
 };

 public static string[] modeNames = {
  <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor>
 };

 public static readonly string[] ruleNames = {
  <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
 };

 <namedActions.members>

 public <lexer.name>(ICharStream input)
 : this(input, Console.Out, Console.Error) { }

 public <lexer.name>(ICharStream input, TextWriter output, TextWriter errorOutput)
 :
 base(input, output, errorOutput)
 {
  Interpreter = new LexerATNSimulator(this, _ATN, decisionToDFA, sharedContextCache);
 }

 <vocabulary(lexer.literalNames, lexer.symbolicNames)>

 public override string GrammarFileName { get { return "<lexer.grammarFileName>"; } }

 public override string[] RuleNames { get { return ruleNames; } }

 public override string[] ChannelNames { get { return channelNames; } }
```

```
 public override string[] ModeNames { get { return modeNames; } }

 public override int[] SerializedAtn { get { return _serializedATN; } }

 static <lexer.name>() {
  decisionToDFA = new DFA[_ATN.NumberOfDecisions];
  for (int i = 0; i \< _ATN.NumberOfDecisions; i++) {
   decisionToDFA[i] = new DFA(_ATN.GetDecisionState(i), i);
  }
 }
 <dumpActions(lexer, "", actionFuncs, sempredFuncs)>
 <atn>
}
>>

SerializedATN(model) ::= <<
private static int[] _serializedATN = {
 <model.serialized: {s | <s>}; separator=",", wrap>
};

public static readonly ATN _ATN =
 new ATNDeserializer().Deserialize(_serializedATN);


>>

initValue(typeName)
 ::= <<
default(<typeName>)
>>

codeFileExtension() ::= ".cs"

modeName ::= [
 "DEFAULT_MODE" : "DefaultMode",
 default : key
]

channelName ::= [
 "HIDDEN" : "Hidden",
 "DEFAULT_TOKEN_CHANNEL" : "DefaultTokenChannel",
 default : key
]

tokenType ::= [
 "EOF" : "Eof",
 default : key
```

]

Found in path(s):
* /opt/cola/permits/2224916300_1729024207.2615368/0/antlr4-4-13-2-jar/org/antlr/v4/tool/templates/codegen/CSharp/CSharp.stg
No license file was found, but licenses were detected in source scan.

```
/*
* [The "BSD license"]
*  Copyright (c) 2012-2016 Terence Parr
*  Copyright (c) 2012-2016 Sam Harwell
*  All rights reserved.
*
*  Redistribution and use in source and binary forms, with or without
*  modification, are permitted provided that the following conditions
*  are met:
*
*  1. Redistributions of source code must retain the above copyright
*     notice, this list of conditions and the following disclaimer.
*  2. Redistributions in binary form must reproduce the above copyright
*     notice, this list of conditions and the following disclaimer in the
*     documentation and/or other materials provided with the distribution.
*  3. The name of the author may not be used to endorse or promote products
*     derived from this software without specific prior written permission.
*
*  THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR
*  IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
 TO, THE IMPLIED WARRANTIES
*  OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
*  IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
*  INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
*  NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
*  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
*  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
*  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

javaTypeInitMap ::= [
 "int":"0",
 "long":"0",
 "float":"0.0f",
 "double":"0.0",
 "boolean":"false",
 "byte":"0",
 "short":"0",
 "char":"0",
 default:"null" // anything other than a primitive type is an object
```

```
]

// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName,
 file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<namedActions.header>
import org.antlr.v4.runtime.atn.*;
import org.antlr.v4.runtime.dfa.DFA;
import org.antlr.v4.runtime.*;
import org.antlr.v4.runtime.misc.*;
import org.antlr.v4.runtime.tree.*;
import java.util.List;
import java.util.Iterator;
import java.util.ArrayList;

<parser>
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.tree.ParseTreeListener;

/**
* This interface defines a complete listener for a parse tree produced by
* {@link <file.parserName>}.
*/
public interface <file.grammarName>Listener extends ParseTreeListener {
 <file.listenerNames:{lname |
/**
<if(file.listenerLabelRuleNames.(lname))>
* Enter a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.listenerLabelRuleNames.(lname)>\}.
<else>
 * Enter a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
* @param ctx the parse tree
*/
void enter<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx);
/**
```

```
<if(file.listenerLabelRuleNames.(lname))>
* Exit a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.listenerLabelRuleNames.(lname)>\}.
<else>
* Exit a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
* @param ctx the parse tree
*/
void exit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx);}; separator="\n">
}
>>

BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>

import org.antlr.v4.runtime.ParserRuleContext;
import org.antlr.v4.runtime.tree.ErrorNode;
import org.antlr.v4.runtime.tree.TerminalNode;

/**
* This class provides an empty implementation of {@link <file.grammarName>Listener},
 * which can be extended to create a listener which only needs to handle a subset
* of the available methods.
*/
@SuppressWarnings("CheckReturnValue")
public class <file.grammarName>BaseListener implements <file.grammarName>Listener {
 <file.listenerNames:{lname |
/**
* {@inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
@Override public void enter<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx) { \}
/**
* {@inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
@Override public void exit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx) { \}};
separator="\n">

 /**
  * {@inheritDoc\}
  *
```

```
 * \<p>The default implementation does nothing.\</p>
 */
@Override public void enterEveryRule(ParserRuleContext ctx) { }
/**
 * {@inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
@Override public void exitEveryRule(ParserRuleContext ctx) { }
/**
 *
{@inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
@Override public void visitTerminal(TerminalNode node) { }
/**
 * {@inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
@Override public void visitErrorNode(ErrorNode node) { }
}
>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.tree.ParseTreeVisitor;

/**
* This interface defines a complete generic visitor for a parse tree produced
* by {@link <file.parserName>}.
*
* @param \<T> The return type of the visit operation. Use {@link Void} for
* operations with no return type.
*/
public interface <file.grammarName>Visitor\<T> extends ParseTreeVisitor\<T> {
 <file.visitorNames:{lname |
/**
<if(file.visitorLabelRuleNames.(lname))>
* Visit a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.visitorLabelRuleNames.(lname)>\}.
<else>
```

```
 * Visit a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
* @param ctx the parse tree
* @return the visitor result
*/
T visit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx);}; separator="\n">
}
>>

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.tree.AbstractParseTreeVisitor;

/**
* This class provides an empty implementation of {@link <file.grammarName>Visitor},
* which can be extended to create a visitor which only needs to handle a subset
* of the available methods.
*
* @param \<T> The return type of the visit operation. Use {@link Void} for
* operations with no return type.
*/
@SuppressWarnings("CheckReturnValue")
public class <file.grammarName>BaseVisitor\<T> extends AbstractParseTreeVisitor\<T> implements
<file.grammarName>Visitor\<T>
 {
 <file.visitorNames:{lname |
/**
* {@inheritDoc\}
*
* \<p>The default implementation returns the result of calling
* {@link #visitChildren\} on {@code ctx\}.\</p>
*/
@Override public T visit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx) { return
visitChildren(ctx); \}}; separator="\n">
}
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName> by ANTLR <ANTLRVersion>
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>
```

```
Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast", "CheckReturnValue", "this-escape"})
public class <parser.name> extends <superClass; null="Parser"> {
 static { RuntimeMetaData.checkVersion("<file.ANTLRVersion>", RuntimeMetaData.VERSION); }

 protected static final DFA[] _decisionToDFA;
 protected static final PredictionContextCache _sharedContextCache =
  new PredictionContextCache();
 <if(parser.tokens)>
 public
 static final int
  <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator=", ", wrap, anchor>;
 <endif>
 <if(parser.rules)>
 public static final int
  <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
 <endif>
 private static String[] makeRuleNames() {
  return new String[] {
   <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
  };
 }
 public static final String[] ruleNames = makeRuleNames();

 <vocabulary(parser.literalNames, parser.symbolicNames)>

 @Override
 public String getGrammarFileName() { return "<parser.grammarFileName>"; }

 @Override
 public String[] getRuleNames() { return ruleNames; }

 @Override
 public String getSerializedATN() { return _serializedATN; }

 @Override
 public ATN getATN() { return _ATN; }

 <namedActions.members>
 <parser:(ctor)()>
 <funcs; separator="\n">

<if(sempredFuncs)>
 public boolean sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
  switch (ruleIndex)
  {
   <parser.sempredFuncs.values:{f|
```

```
case <f.ruleIndex>:
 return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">
  }
  return true;
 }
 <sempredFuncs.values; separator="\n">
<endif>

 <atn>
}
>>

vocabulary(literalNames, symbolicNames) ::= <<
private static String[] makeLiteralNames() {
 return new String[] {
  <literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
 };
}
private static final String[] _LITERAL_NAMES = makeLiteralNames();
private static String[] makeSymbolicNames() {
 return new String[] {
  <symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
 };
}
private static final String[] _SYMBOLIC_NAMES = makeSymbolicNames();
public static final Vocabulary VOCABULARY = new VocabularyImpl(_LITERAL_NAMES,
_SYMBOLIC_NAMES);

/**
* @deprecated Use {@link #VOCABULARY} instead.
*/
@Deprecated
public static final String[] tokenNames;
static {
 tokenNames = new String[_SYMBOLIC_NAMES.length];
 for (int i = 0; i \< tokenNames.length;
 i++) {
  tokenNames[i] = VOCABULARY.getLiteralName(i);
  if (tokenNames[i] == null) {
   tokenNames[i] = VOCABULARY.getSymbolicName(i);
  }

  if (tokenNames[i] == null) {
   tokenNames[i] = "\<INVALID>";
  }
 }
}
```

```
@Override
@Deprecated
public String[] getTokenNames() {
 return tokenNames;
}

@Override

public Vocabulary getVocabulary() {
 return VOCABULARY;
}
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
@Override
public void action(RuleContext _localctx, int ruleIndex, int actionIndex) {
 switch (ruleIndex) {
 <recog.actionFuncs.values:{f|
case <f.ruleIndex>:
 <f.name>_action((<f.ctxType>)_localctx, actionIndex);
 break;}; separator="\n">
 }
}
<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
@Override
public boolean sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
 switch (ruleIndex) {
 <recog.sempredFuncs.values:{f|
case <f.ruleIndex>:
 return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">
 }
 return
 true;
}
<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(p) ::= <<
public <p.name>(TokenStream input) {
 super(input);
 _interp = new ParserATNSimulator(this,_ATN,_decisionToDFA,_sharedContextCache);
}
>>
```

```
/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
private void <r.name>_action(<r.ctxType> _localctx, int actionIndex) {
 switch (actionIndex) {
 <actions:{index|
case <index>:
 <actions.(index)>
 break;}; separator="\n">
 }
}
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
private boolean <r.name>_sempred(<r.ctxType> _localctx, int predIndex) {
 switch (predIndex) {
 <actions:{index|
case <index>:
 return <actions.(index)>;}; separator="\n">
 }
 return true;
}
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
 ::= <<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public final <endif><currentRule.ctxType>
<currentRule.escapedName>(<args; separator=",">) throws RecognitionException {
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(_ctx, getState()<currentRule.args:{a | ,
<a.escapedName>}>);
 enterRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>);
 <namedActions.init>
 <locals; separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
```

```
 }
 <if(exceptions)>
 <exceptions; separator="\n">
 <else>
 catch (RecognitionException re) {
  _localctx.exception = re;
  _errHandler.reportError(this, re);
  _errHandler.recover(this, re);
 }
 <endif>
 finally {
  <finallyAction>
  exitRule();
 }
 return _localctx;
}
>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
 namedActions,finallyAction,postamble)
 ::=
<<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public final <endif><currentRule.ctxType>
<currentRule.escapedName>(<args; separator=", ">) throws RecognitionException {
 return <currentRule.escapedName>(0<currentRule.args:{a | , <a.escapedName>}>);
}

private <currentRule.ctxType> <currentRule.escapedName>(int _p<args:{a | , <a>}>) throws RecognitionException
{
 ParserRuleContext _parentctx = _ctx;
 int _parentState = getState();
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(_ctx, _parentState<currentRule.args:{a | ,
<a.escapedName>}>);
 <currentRule.ctxType> _prevctx = _localctx;
 int _startState = <currentRule.startState>;
 enterRecursionRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>, _p);
 <namedActions.init>
 <locals; separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
  int
 _alt;
<endif>
  <code>
```

```
  <postamble; separator="\n">
  <namedActions.after>
 }
 catch (RecognitionException re) {
  _localctx.exception = re;
  _errHandler.reportError(this, re);
  _errHandler.recover(this, re);
 }
 finally {
  <finallyAction>
  unrollRecursionContexts(_parentctx);
 }
 return _localctx;
}
>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx = new <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(_localctx);<endif>
enterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
{
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
}
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
<if(choice.label)><labelref(choice.label)>
 = _input.LT(1);<endif>
<preamble; separator="\n">
switch (_input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
 <alt>
 break;}; separator="\n">
default:
 <error>
}
>>

LL1OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>);
```

```
_errHandler.sync(this);
switch (_input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
 <alt>
 break;}; separator="\n">
default:
 break;
}
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
<preamble; separator="\n">
if (<expr>) {
 <alts; separator="\n">
}
<!else if ( !(<followExpr>) ) <error>!>
>>

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
<preamble; separator="\n">
while (<loopExpr>) {
 <alts; separator="\n">
 setState(<choice.loopBackStateNumber>);
 _errHandler.sync(this);
 <iteration>
}
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts,
 preamble, iteration) ::= <<
setState(<choice.blockStartStateNumber>); <! alt block decision !>
_errHandler.sync(this);
<preamble; separator="\n">
do {
 <alts; separator="\n">
 setState(<choice.stateNumber>); <! loopback/exit decision !>
 _errHandler.sync(this);
 <iteration>
} while ( <loopExpr> );
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
```

```
setState(<choice.stateNumber>);
_errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = _input.LT(1);<endif>
<preamble; separator="\n">
switch ( getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx) ) {
<alts:{alt |
case <i>:
 <alt>
 break;}; separator="\n">
}
>>

OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
switch ( getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx) ) {
<alts:{alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n">
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
_alt
 = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
while ( _alt!=<choice.exitAlt> && _alt!=org.antlr.v4.runtime.atn.ATN.INVALID_ALT_NUMBER ) {
 if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {
  <iteration>
  <alts> <! should only be one !>
 }
 setState(<choice.loopBackStateNumber>);
 _errHandler.sync(this);
 _alt = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
}
>>

PlusBlock(choice, alts, error) ::= <<
setState(<choice.blockStartStateNumber>); <! alt block decision !>
_errHandler.sync(this);
_alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
 switch (_alt) {
 <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
```

```
 break;}; separator="\n">
 default:
  <error>
 }
 setState(<choice.loopBackStateNumber>); <! loopback/exit decision !>
 _errHandler.sync(this);
 _alt = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
} while ( _alt!=<choice.exitAlt> && _alt!=org.antlr.v4.runtime.atn.ATN.INVALID_ALT_NUMBER
 );
>>

Sync(s) ::= "sync(<s.expecting.name>);"

ThrowNoViableAlt(t) ::= "throw new NoViableAltException(this);"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.tokens)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((1L \<\< <offsetShift(s.varName, bits.shift)>) &
<bits.calculated>L) != 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShift(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

bitsetInlineComparison(s, bits) ::= <%
<bits.tokens:{t | <s.varName>==<t.name>}; separator=" || ">
%>

cases(tokens) ::= <<
<tokens:{t | case <t.name>:}; separator="\n">
>>

InvokeRule(r,
```

```
 argExprsChunks) ::= <<
setState(<r.stateNumber>);
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif><r.escapedName>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprs
Chunks>);
>>

MatchToken(m) ::= <<
setState(<m.stateNumber>);
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>match(<m.escapedName>);
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
setState(<m.stateNumber>);
<if(m.labels)><m.labels:{l | <labelref(l)> = }>_input.LT(1);<endif>
<capture>
if ( <if(invert)><m.varName> \<= 0 || <else>!<endif>(<expr>) ) {
 <if(m.labels)><m.labels:{l | <labelref(l)> = (Token)}><endif>_errHandler.recoverInline(this);
}
else {
 if ( _input.LA(1)==Token.EOF ) matchedEOF = true;
 _errHandler.reportMatch(this);
 consume();
}
>>

Wildcard(w) ::= <<
setState(<w.stateNumber>);
<if(w.labels)><w.labels:{l |
 <labelref(l)> = }><endif>matchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
setState(<p.stateNumber>);
if (!(<chunks>)) throw new FailedPredicateException(this, <p.predicate><if(failChunks)>,
<failChunks><elseif(p.msg)>, <p.msg><endif>);
>>
```

```
ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
 <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "skip();"
LexerMoreCommand()  ::= "more();"
LexerPopModeCommand() ::= "popMode();"

LexerTypeCommand(arg, grammar)      ::= "_type = <arg>;"
LexerChannelCommand(arg, grammar)   ::= "_channel = <arg>;"
LexerModeCommand(arg, grammar)      ::= "_mode = <arg>;"
LexerPushModeCommand(arg, grammar)  ::= "pushMode(<arg>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<a.escapedName>"
LocalRef(a) ::= "_localctx.<a.escapedName>"
RetValueRef(a) ::= "_localctx.<a.escapedName>"
QRetValueRef(a)
 ::= "<ctx(a)>.<a.dict>.<a.escapedName>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.escapedName>"
LabelRef(t) ::= "<ctx(t)>.<t.escapedName>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.escapedName)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.escapedName> = <rhsChunks>;"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getText():null)"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getType():0)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getLine():0)"
TokenPropertyRef_pos(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getCharPositionInLine():0)"
TokenPropertyRef_channel(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getChannel():0)"
TokenPropertyRef_index(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getTokenIndex():0)"
TokenPropertyRef_int(t)
 ::= "(<ctx(t)>.<t.label>!=null?Integer.valueOf(<ctx(t)>.<t.label>.getText()):0)"

RulePropertyRef_start(r) ::= "(<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.start):null)"
RulePropertyRef_stop(r)  ::= "(<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.stop):null)"
RulePropertyRef_text(r)  ::=
"(<ctx(r)>.<r.label>!=null?_input.getText(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop):null)"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "this"
```

```
ThisRulePropertyRef_start(r) ::= "_localctx.start"
ThisRulePropertyRef_stop(r)  ::= "_localctx.stop"
ThisRulePropertyRef_text(r)  ::= "_input.getText(_localctx.start, _input.LT(-1))"
ThisRulePropertyRef_ctx(r)  ::= "_localctx"
ThisRulePropertyRef_parser(r)  ::= "this"

NonLocalAttrRef(s)   ::= "((<s.ruleName;
format=\"cap\">Context)getInvokingContext(<s.ruleIndex>)).<s.escapedName>"
SetNonLocalAttr(s, rhsChunks)   ::=
 "((<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>)).<s.escapedName>
 = <rhsChunks>;"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.add(<labelref(a.label)>);"

TokenDecl(t) ::= "<TokenLabelType()> <t.escapedName>"
TokenTypeDecl(t) ::= "int <t.escapedName>;"
TokenListDecl(t) ::= "List\<Token> <t.escapedName> = new ArrayList\<Token>()"
RuleContextDecl(r) ::= "<r.ctxName> <r.escapedName>"
RuleContextListDecl(rdecl) ::= "List\<<rdecl.ctxName>> <rdecl.escapedName> = new
ArrayList\<<rdecl.ctxName>>()"

ContextTokenGetterDecl(t)      ::=
   "public TerminalNode <t.name>() { return getToken(<parser.name>.<t.name>, 0); }"
ContextTokenListGetterDecl(t)  ::=
   "public List\<TerminalNode> <t.name>() { return getTokens(<parser.name>.<t.name>); }"
ContextTokenListIndexedGetterDecl(t)  ::= <<
public TerminalNode <t.name>(int i) {
 return getToken(<parser.name>.<t.name>, i);
}
>>
ContextRuleGetterDecl(r)       ::= <<
public <r.ctxName> <r.escapedName>() {
 return getRuleContext(<r.ctxName>.class,0);
}
>>
ContextRuleListGetterDecl(r)
   ::= <<
public List\<<r.ctxName>\> <r.escapedName>() {
 return getRuleContexts(<r.ctxName>.class);
}
>>
ContextRuleListIndexedGetterDecl(r)   ::= <<
public <r.ctxName> <r.escapedName>(int i) {
 return getRuleContext(<r.ctxName>.class,i);
}
>>
```

```
LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
* r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "<tokenName>"
ImplicitRuleLabel(ruleName)   ::= "<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)    ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = _input.LT(1);"
CaptureNextTokenType(d) ::= "<d.varName> = _input.LA(1);"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,signatures)
 ::= <<
@SuppressWarnings("CheckReturnValue")
public static class <struct.escapedName> extends
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)> implements
<interfaces;
 separator=", "><endif> {
 <attrs:{a | public <a>;}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 <if(ctorAttrs)>public <struct.escapedName>(ParserRuleContext parent, int invokingState) { super(parent,
invokingState); }<endif>
 public <struct.escapedName>(ParserRuleContext parent, int invokingState<ctorAttrs:{a | , <a>}>) {
  super(parent, invokingState);
  <struct.ctorAttrs:{a | this.<a.escapedName> = <a.escapedName>;}; separator="\n">
 }
 @Override public int getRuleIndex() { return RULE_<struct.derivedFromName>; }
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
 public <struct.escapedName>() { }
 public void copyFrom(<struct.escapedName> ctx) {
  super.copyFrom(ctx);
  <struct.attrs:{a | this.<a.escapedName> = ctx.<a.escapedName>;}; separator="\n">
 }
<endif>
 <dispatchMethods; separator="\n">
 <extensionMembers; separator="\n">
}
>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
@SuppressWarnings("CheckReturnValue")
public
 static class <struct.escapedName> extends <currentRule.name; format="cap">Context {
 <attrs:{a | public <a>;}; separator="\n">
```

```
 <getters:{g | <g>}; separator="\n">
 public <struct.escapedName>(<currentRule.name; format="cap">Context ctx) { copyFrom(ctx); }
 <dispatchMethods; separator="\n">
}
>>

ListenerDispatchMethod(method) ::= <<
@Override
public void <if(method.isEnter)>enter<else>exit<endif>Rule(ParseTreeListener listener) {
 if ( listener instanceof <parser.grammarName>Listener )
((<parser.grammarName>Listener)listener).<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName;
format="cap">(this);
}
>>

VisitorDispatchMethod(method) ::= <<
@Override
public \<T> T accept(ParseTreeVisitor\<? extends T> visitor) {
 if ( visitor instanceof <parser.grammarName>Visitor ) return ((<parser.grammarName>Visitor\<? extends
T>)visitor).visit<struct.derivedFromName; format="cap">(this);
 else return visitor.visitChildren(this);
}
>>

AttributeDecl(d) ::= "<d.type> <d.escapedName><if(d.initValue)>
 = <d.initValue><endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>((<x.ctx.name>)_localctx).<endif><x.escapedName>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "((<actionChunk.ctx.name>)_localctx)"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)  ::= "precpred(_ctx, <opPrec>)"
recRuleSetReturnAction(src,name)   ::= "$<name>=$<src>.<name>;"
recRuleSetStopToken()                ::= "_ctx.stop = _input.LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
_localctx = new <ctxName>Context(_parentctx, _parentState);
<if(label)>
<if(isListLabel)>
_localctx.<label>.add(_prevctx);
<else>
_localctx.<label> = _prevctx;
<endif>
<endif>
pushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
```

```
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
_localctx = new <currentAltLabel;
 format="cap">Context(new <ruleName; format="cap">Context(_parentctx, _parentState));
<if(label)>
<if(isListLabel)>
((<currentAltLabel; format="cap">Context)_localctx).<label>.add(_prevctx);
<else>
((<currentAltLabel; format="cap">Context)_localctx).<label> = _prevctx;
<endif>
<endif>
pushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName) ::= <<
_localctx = new <ctxName>Context(_localctx);
_ctx = _localctx;
_prevctx = _localctx;
>>

recRuleSetPrevCtx() ::= <<
if ( _parseListeners!=null ) triggerExitRuleEvent();
_prevctx = _localctx;
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
<if(lexerFile.genPackage)>
package <lexerFile.genPackage>;
<endif>
<namedActions.header>
import org.antlr.v4.runtime.Lexer;
import org.antlr.v4.runtime.CharStream;
import org.antlr.v4.runtime.Token;
import org.antlr.v4.runtime.TokenStream;
import org.antlr.v4.runtime.*;
import org.antlr.v4.runtime.atn.*;
import
 org.antlr.v4.runtime.dfa.DFA;
import org.antlr.v4.runtime.misc.*;

<lexer>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast", "CheckReturnValue", "this-escape"})
```

```
public class <lexer.name> extends <superClass; null="Lexer"> {
 static { RuntimeMetaData.checkVersion("<lexerFile.ANTLRVersion>", RuntimeMetaData.VERSION); }

 protected static final DFA[] _decisionToDFA;
 protected static final PredictionContextCache _sharedContextCache =
  new PredictionContextCache();
 <if(lexer.tokens)>
 public static final int
  <lexer.tokens:{k | <k>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
 <endif>
 <if(lexer.escapedChannels)>
 public static final int
  <lexer.escapedChannels:{c | <c>=<lexer.escapedChannels.(c)>}; separator=", ", wrap, anchor>;
 <endif>
 <if(rest(lexer.escapedModeNames))>
 public static final int
  <rest(lexer.escapedModeNames):{m | <m>=<i>}; separator=", ", wrap, anchor>;
 <endif>
 public
 static String[] channelNames = {
  "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channelNames)>, <lexer.channelNames:{c| "<c>"};
separator=", ", wrap, anchor><endif>
 };

 public static String[] modeNames = {
  <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor>
 };

 private static String[] makeRuleNames() {
  return new String[] {
   <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
  };
 }
 public static final String[] ruleNames = makeRuleNames();

 <vocabulary(lexer.literalNames, lexer.symbolicNames)>

 <namedActions.members>

 public <lexer.name>(CharStream input) {
  super(input);
  _interp = new LexerATNSimulator(this,_ATN,_decisionToDFA,_sharedContextCache);
 }

 @Override
 public String getGrammarFileName() { return "<lexer.grammarFileName>"; }

 @Override
```

```
 public String[] getRuleNames() { return ruleNames; }

 @Override
 public String getSerializedATN() { return _serializedATN; }

 @Override
 public String[] getChannelNames() { return channelNames; }

 @Override
 public
 String[] getModeNames() { return modeNames; }

 @Override
 public ATN getATN() { return _ATN; }

 <dumpActions(lexer, "", actionFuncs, sempredFuncs)>
 <atn>
}
>>

SerializedJavaATN(model) ::= <<
<if(rest(model.segments))>
<! requires segmented representation !>
<model.segments:{segment|private static final String _serializedATNSegment<i0> =
 "<segment; wrap={"+<\n><\t>"}>";}; separator="\n">
public static final String _serializedATN = Utils.join(
 new String[] {
  <model.segments:{segment | _serializedATNSegment<i0>}; separator=",\n">
 },
 ""
);
<else>
<! only one segment, can be inlined !>
public static final String _serializedATN =
 "<model.serialized; wrap={"+<\n><\t>"}>";
<endif>
public static final ATN _ATN =
 new ATNDeserializer().deserialize(_serializedATN.toCharArray());
static {
 _decisionToDFA = new DFA[_ATN.getNumberOfDecisions()];
 for (int i = 0; i \< _ATN.getNumberOfDecisions(); i++) {
  _decisionToDFA[i] = new DFA(_ATN.getDecisionState(i), i);
 }
<! org.antlr.v4.tool.DOTGenerator
 dot = new org.antlr.v4.tool.DOTGenerator(null);!>
<! System.out.println(dot.getDOT(_ATN.decisionToState.get(0), ruleNames, false));!>
<! System.out.println(dot.getDOT(_ATN.ruleToStartState[2], ruleNames, false));!>
}
```

```
>>

/** Using a type to init value map, try to init a type; if not in table
* must be an object, default value is "null".
*/
initValue(typeName) ::= <<
<javaTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".java"
```

Found in path(s):
* /opt/cola/permits/2224916300_1729024207.2615368/0/antlr4-4-13-2-jar/org/antlr/v4/tool/templates/codegen/Java/Java.stg
No license file was found, but licenses were detected in source scan.

```
/*
* [The "BSD license"]
*  Copyright (c) 2015 Dan McLaughlin, Mike Lischke
*  All rights reserved.
*
*  Redistribution and use in source and binary forms, with or without
*  modification, are permitted provided that the following conditions
*  are met:
*
*  1. Redistributions of source code must retain the above copyright
*     notice, this list of conditions and the following disclaimer.
*  2. Redistributions in binary form must reproduce the above copyright
*     notice, this list of conditions and the following disclaimer in the
*     documentation and/or other materials provided with the distribution.
*  3. The name of the author may not be used to endorse or promote products
*     derived from this software without specific prior written permission.
*
*  THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR
*  IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
 *  OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
*  IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
*  INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
*  NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
*  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
*  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
*  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

import "Files.stg" // All file specific stuff.

cppTypeInitMap ::= [
```

```
   "int":"0",
   "long":"0",
   "float":"0.0f",
   "double":"0.0",
   "bool":"false",
   "short":"0",
   "char":"0",
   default: "nullptr" // anything other than a primitive type is an object
]

LexerHeader(lexer, atn, actionFuncs, sempredFuncs, superClass = {antlr4::Lexer}) ::= <<
<namedActions.context>

class <file.exportMacro>
 <lexer.name> : public <superClass> {
public:
<if (lexer.tokens)>
 enum {
   <lexer.tokens: {k | <k> = <lexer.tokens.(k)>}; separator=", ", wrap, anchor>
 };
<endif>

<if (lexer.escapedChannels)>
 enum {
   <lexer.escapedChannels: {k | <k> = <lexer.escapedChannels.(k)>}; separator=", ", wrap, anchor>
 };
<endif>

<if (rest(lexer.escapedModeNames))>
 enum {
   <rest(lexer.escapedModeNames): {m | <m> = <i>}; separator=", ", wrap, anchor>
 };
<endif>

 explicit <lexer.name>(antlr4::CharStream *input);

 ~<lexer.name>() override;

 <namedActions.members>

 std::string getGrammarFileName() const override;

 const std::vector\<std::string>& getRuleNames() const override;

 const std::vector\<std::string>& getChannelNames() const override;

 const std::vector\<std::string>& getModeNames() const override;
```

```
 const antlr4::dfa::Vocabulary& getVocabulary() const override;

 antlr4::atn::SerializedATNView getSerializedATN() const override;

 const antlr4::atn::ATN& getATN()
 const override;

 <if (actionFuncs)>
 void action(antlr4::RuleContext *context, size_t ruleIndex, size_t actionIndex) override;
 <endif>

 <if (sempredFuncs)>
 bool sempred(antlr4::RuleContext *_localctx, size_t ruleIndex, size_t predicateIndex) override;
 <endif>

 // By default the static state used to implement the lexer is lazily initialized during the first
 // call to the constructor. You can call this function if you wish to initialize the static state
 // ahead of time.
 static void initialize();

private:
 <namedActions.declarations>

 // Individual action functions triggered by action() above.
 <actionFuncs.values; separator="\n">

 // Individual semantic predicate functions triggered by sempred() above.
 <sempredFuncs.values; separator="\n">

 <atn>
};
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass = {Lexer}) ::= <<

using namespace antlr4;

namespace {

struct <lexer.name; format = "cap">StaticData final {
 <lexer.name; format = "cap">StaticData(std::vector\<std::string>
 ruleNames,
                    std::vector\<std::string> channelNames,
                    std::vector\<std::string> modeNames,
                    std::vector\<std::string> literalNames,
                    std::vector\<std::string> symbolicNames)
    : ruleNames(std::move(ruleNames)), channelNames(std::move(channelNames)),
      modeNames(std::move(modeNames)), literalNames(std::move(literalNames)),
```

```
      symbolicNames(std::move(symbolicNames)),
      vocabulary(this->literalNames, this->symbolicNames) {}

 <lexer.name; format = "cap">StaticData(const <lexer.name; format = "cap">StaticData&) = delete;
 <lexer.name; format = "cap">StaticData(<lexer.name; format = "cap">StaticData&&) = delete;
 <lexer.name; format = "cap">StaticData& operator=(const <lexer.name; format = "cap">StaticData&) = delete;
 <lexer.name; format = "cap">StaticData& operator=(<lexer.name; format = "cap">StaticData&&) = delete;

 std::vector\<antlr4::dfa::DFA>
 decisionToDFA;
 antlr4::atn::PredictionContextCache sharedContextCache;
 const std::vector\<std::string> ruleNames;
 const std::vector\<std::string> channelNames;
 const std::vector\<std::string> modeNames;
 const std::vector\<std::string> literalNames;
 const std::vector\<std::string> symbolicNames;
 const antlr4::dfa::Vocabulary vocabulary;
 antlr4::atn::SerializedATNView serializedATN;
 std::unique_ptr\<antlr4::atn::ATN> atn;
};

::antlr4::internal::OnceFlag <lexer.grammarName; format = "lower">LexerOnceFlag;
#if ANTLR4_USE_THREAD_LOCAL_CACHE
static thread_local
#endif
std::unique_ptr\<<lexer.name; format = "cap">StaticData> <lexer.grammarName; format =
"lower">LexerStaticData = nullptr;

void <lexer.grammarName; format = "lower">LexerInitialize() {
#if ANTLR4_USE_THREAD_LOCAL_CACHE
 if (<lexer.grammarName; format = "lower">LexerStaticData != nullptr) {
   return;
 }
#else
 assert(<lexer.grammarName; format = "lower">LexerStaticData == nullptr);
#endif
  auto staticData = std::make_unique\<<lexer.name; format = "cap">StaticData>(
   std::vector\<std::string>{
     <lexer.ruleNames: {r | "<r>"}; separator = ", ", wrap, anchor>
   },
   std::vector\<std::string>{
     "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channels)>, <lexer.channels: {c | "<c>"}; separator =
", ", wrap, anchor><endif>
   },
   std::vector\<std::string>{
     <lexer.modes: {m | "<m>"}; separator = ", ", wrap, anchor>
   },
   std::vector\<std::string>{
```

```
    <lexer.literalNames: {t | <t>}; null = "\"\"", separator = ", ", wrap, anchor>
  },
  std::vector\<std::string>{
    <lexer.symbolicNames: {t | <t>}; null = "\"\"", separator = ", ", wrap, anchor>
  }
);
<atn>
<lexer.grammarName; format = "lower">LexerStaticData = std::move(staticData);
}

}

<lexer.name>::<lexer.name>(CharStream *input) : <superClass>(input) {
<lexer.name>::initialize();
_interpreter = new atn::LexerATNSimulator(this, *<lexer.grammarName; format = "lower">LexerStaticData->atn,
<lexer.grammarName; format = "lower">LexerStaticData->decisionToDFA, <lexer.grammarName; format =
"lower">LexerStaticData->sharedContextCache);
}

<lexer.name>::~<lexer.name>() {
delete _interpreter;
}

std::string <lexer.name>::getGrammarFileName() const {
return "<lexer.grammarFileName>";
}

const std::vector\<std::string>& <lexer.name>::getRuleNames() const {
return <lexer.grammarName; format = "lower">LexerStaticData->ruleNames;
}

const std::vector\<std::string>& <lexer.name>::getChannelNames() const {
return <lexer.grammarName; format = "lower">LexerStaticData->channelNames;
}

const std::vector\<std::string>& <lexer.name>::getModeNames() const {
return <lexer.grammarName; format = "lower">LexerStaticData->modeNames;
}

const dfa::Vocabulary& <lexer.name>::getVocabulary() const {
return <lexer.grammarName; format = "lower">LexerStaticData->vocabulary;
}

antlr4::atn::SerializedATNView <lexer.name>::getSerializedATN() const {
return <lexer.grammarName;
format = "lower">LexerStaticData->serializedATN;
}
```

```
const atn::ATN& <lexer.name>::getATN() const {
 return *<lexer.grammarName; format = "lower">LexerStaticData->atn;
}

<namedActions.definitions>

<if (actionFuncs)>
void <lexer.name>::action(RuleContext *context, size_t ruleIndex, size_t actionIndex) {
 switch (ruleIndex) {
   <lexer.actionFuncs.values: {f | case <f.ruleIndex>: <f.name>Action(antlrcpp::downCast\<<f.ctxType>
*>(context), actionIndex); break;}; separator="\n">

 default:
   break;
 }
}
<endif>

<if (sempredFuncs)>
bool <lexer.name>::sempred(RuleContext *context, size_t ruleIndex, size_t predicateIndex) {
 switch (ruleIndex) {
   <lexer.sempredFuncs.values: {f | case <f.ruleIndex>: return <f.name>Sempred(antlrcpp::downCast\<<f.ctxType>
*>(context), predicateIndex);}; separator="\n">

 default:
   break;
 }
 return true;
}
<endif>

<actionFuncs.values; separator="\n">

<sempredFuncs.values; separator="\n">

void <lexer.name>::initialize() {
#if ANTLR4_USE_THREAD_LOCAL_CACHE
  <lexer.grammarName; format = "lower">LexerInitialize();
#else
 ::antlr4::internal::call_once(<lexer.grammarName; format = "lower">LexerOnceFlag, <lexer.grammarName;
format = "lower">LexerInitialize);
#endif
}
>>

RuleActionFunctionHeader(r, actions) ::= <<
void <r.name>Action(<r.ctxType> *context, size_t actionIndex);
>>
```

```
RuleActionFunction(r, actions) ::= <<
void <r.factory.grammar.name>::<r.name>Action(<r.ctxType> *context, size_t actionIndex) {
 switch (actionIndex) {
   <actions: {index | case <index>: <actions.(index)> break;}; separator="\n">

 default:
   break;
 }
}

>>

RuleSempredFunctionHeader(r, actions) ::= <<
bool <r.name>Sempred(<r.ctxType> *_localctx, size_t predicateIndex);
>>

RuleSempredFunction(r, actions) ::= <<
<! Called for both lexer and parser. But only one of them is actually available. Testing for the parser directly
  generates a warning, however. So do the check via the factory instead. !>
bool <if (r.factory.g.lexer)><lexer.name><else><parser.name><endif>::<r.name>Sempred(<r.ctxType>
 *_localctx, size_t predicateIndex) {
 switch (predicateIndex) {
   <actions: {index | case <index>: return <actions.(index)>}; separator=";\n">;

 default:
   break;
 }
 return true;
}

>>

//-----------------------------------------------------------------------------------------------

ParserHeader(parser, funcs, atn, sempredFuncs, superClass = {antlr4::Parser}) ::= <<
<namedActions.context>

class <file.exportMacro> <parser.name> : public <superClass> {
public:
<if (parser.tokens)>
 enum {
   <parser.tokens: {k | <k> = <parser.tokens.(k)>}; separator=", ", wrap, anchor>
 };
<endif>

<if (parser.rules)>
 enum {
```

```
  <parser.rules: {r | Rule<r.name; format="cap"> = <r.index>}; separator=", ", wrap, anchor>
 };
<endif>

 explicit <parser.name>(antlr4::TokenStream *input);

 <parser.name>(antlr4::TokenStream *input, const antlr4::atn::ParserATNSimulatorOptions &options);

 ~<parser.name>() override;

 std::string getGrammarFileName()
 const override;

 const antlr4::atn::ATN& getATN() const override;

 const std::vector\<std::string>& getRuleNames() const override;

 const antlr4::dfa::Vocabulary& getVocabulary() const override;

 antlr4::atn::SerializedATNView getSerializedATN() const override;

 <namedActions.members>

 <parser.funcs: {f | class <f.name; format = "cap">Context;};  separator = "\n"> <! Forward declare context classes.
!>

 <funcs; separator = "\n">

 <if (sempredFuncs)>
 bool sempred(antlr4::RuleContext *_localctx, size_t ruleIndex, size_t predicateIndex) override;

 <sempredFuncs.values; separator = "\n">
 <endif>

 // By default the static state used to implement the parser is lazily initialized during the first
 // call to the constructor. You can call this function if you wish to initialize the static state
 // ahead of time.
 static void initialize();

private:
 <namedActions.declarations>
};
>>

Parser(parser, funcs, atn, sempredFuncs, superClass = {Parser})
 ::= <<

using namespace antlr4;
```

```
namespace {

struct <parser.name; format = "cap">StaticData final {
 <parser.name; format = "cap">StaticData(std::vector\<std::string> ruleNames,
                    std::vector\<std::string> literalNames,
                    std::vector\<std::string> symbolicNames)
    : ruleNames(std::move(ruleNames)), literalNames(std::move(literalNames)),
      symbolicNames(std::move(symbolicNames)),
      vocabulary(this->literalNames, this->symbolicNames) {}

 <parser.name; format = "cap">StaticData(const <parser.name; format = "cap">StaticData&) = delete;
 <parser.name; format = "cap">StaticData(<parser.name; format = "cap">StaticData&&) = delete;
 <parser.name; format = "cap">StaticData& operator=(const <parser.name; format = "cap">StaticData&) = delete;
 <parser.name; format = "cap">StaticData& operator=(<parser.name; format = "cap">StaticData&&) = delete;

 std::vector\<antlr4::dfa::DFA> decisionToDFA;
 antlr4::atn::PredictionContextCache
 sharedContextCache;
 const std::vector\<std::string> ruleNames;
 const std::vector\<std::string> literalNames;
 const std::vector\<std::string> symbolicNames;
 const antlr4::dfa::Vocabulary vocabulary;
 antlr4::atn::SerializedATNView serializedATN;
 std::unique_ptr\<antlr4::atn::ATN> atn;
};

::antlr4::internal::OnceFlag <parser.grammarName; format = "lower">ParserOnceFlag;
#if ANTLR4_USE_THREAD_LOCAL_CACHE
static thread_local
#endif
std::unique_ptr\<<parser.name; format = "cap">StaticData> <parser.grammarName; format =
"lower">ParserStaticData = nullptr;

void <parser.grammarName; format = "lower">ParserInitialize() {
#if ANTLR4_USE_THREAD_LOCAL_CACHE
 if (<parser.grammarName; format = "lower">ParserStaticData != nullptr) {
   return;
 }
#else
 assert(<parser.grammarName; format = "lower">ParserStaticData == nullptr);
#endif
 auto staticData = std::make_unique\<<parser.name; format = "cap">StaticData>(
   std::vector\<std::string>{
     <parser.ruleNames: {r | "<r>"}; separator
 = ", ", wrap, anchor>
   },
   std::vector\<std::string>{
```

```
    <parser.literalNames: {t | <t>}; null = "\"\"", separator = ", ", wrap, anchor>
  },
  std::vector\<std::string>{
    <parser.symbolicNames: {t | <t>}; null = "\"\"", separator = ", ", wrap, anchor>
  }
);
<atn>
<parser.grammarName; format = "lower">ParserStaticData = std::move(staticData);
}

}

<parser.name>::<parser.name>(TokenStream *input) : <parser.name>(input,
antlr4::atn::ParserATNSimulatorOptions()) {}

<parser.name>::<parser.name>(TokenStream *input, const antlr4::atn::ParserATNSimulatorOptions &options) :
<superClass>(input) {
<parser.name>::initialize();
_interpreter = new atn::ParserATNSimulator(this, *<parser.grammarName; format = "lower">ParserStaticData-
>atn, <parser.grammarName; format = "lower">ParserStaticData->decisionToDFA, <parser.grammarName; format
= "lower">ParserStaticData->sharedContextCache, options);
}

<parser.name>::~<parser.name>() {
delete _interpreter;
}

const
atn::ATN& <parser.name>::getATN() const {
return *<parser.grammarName; format = "lower">ParserStaticData->atn;
}

std::string <parser.name>::getGrammarFileName() const {
return "<parser.grammarFileName>";
}

const std::vector\<std::string>& <parser.name>::getRuleNames() const {
return <parser.grammarName; format = "lower">ParserStaticData->ruleNames;
}

const dfa::Vocabulary& <parser.name>::getVocabulary() const {
return <parser.grammarName; format = "lower">ParserStaticData->vocabulary;
}

antlr4::atn::SerializedATNView <parser.name>::getSerializedATN() const {
return <parser.grammarName; format = "lower">ParserStaticData->serializedATN;
}
```

```
<namedActions.definitions>

<funcs; separator = "\n\n">

<if (sempredFuncs)>
bool <parser.name>::sempred(RuleContext *context, size_t ruleIndex, size_t predicateIndex) {
 switch (ruleIndex) {
 <parser.sempredFuncs.values: {f |
 case <f.ruleIndex>: return <f.name>Sempred(antlrcpp::downCast\<<f.ctxType> *>(context), predicateIndex);};
 separator="\n">

 default:
   break;
 }
 return true;
}

<sempredFuncs.values; separator="\n"><endif>

void <parser.name>::initialize() {
#if ANTLR4_USE_THREAD_LOCAL_CACHE
 <parser.grammarName; format = "lower">ParserInitialize();
#else
 ::antlr4::internal::call_once(<parser.grammarName; format = "lower">ParserOnceFlag, <parser.grammarName;
format = "lower">ParserInitialize);
#endif
}
>>

SerializedATNHeader(model) ::= <<
>>

SerializedATN(model) ::= <<
static const int32_t serializedATNSegment[] = {
 <model.serialized: {s | <s>}; separator=",", wrap>
};
staticData->serializedATN = antlr4::atn::SerializedATNView(serializedATNSegment,
sizeof(serializedATNSegment) / sizeof(serializedATNSegment[0]));

antlr4::atn::ATNDeserializer deserializer;
staticData->atn = deserializer.deserialize(staticData->serializedATN);

const size_t count = staticData->atn->getNumberOfDecisions();
staticData->decisionToDFA.reserve(count);
for (size_t i = 0; i \< count; i++) { <! Rework class ATN to allow
 standard iterations. !>
 staticData->decisionToDFA.emplace_back(staticData->atn->getDecisionState(i), i);
}
```

```
>>

RuleFunctionHeader(currentRule, args, code, locals, ruleCtx, altLabelCtxs, namedActions, finallyAction,
postamble, exceptions) ::= <<
<ruleCtx>
<! TODO: untested !><if (altLabelCtxs)><altLabelCtxs: {l | <altLabelCtxs.(l)>}; separator="\n"><endif>
<currentRule.ctxType>* <currentRule.escapedName>(<args; separator=",">);

>>

RuleFunction(currentRule, args, code, locals, ruleCtx, altLabelCtxs, namedActions, finallyAction, postamble,
exceptions) ::= <<
<ruleCtx>
<! TODO: untested !><altLabelCtxs: {l | <altLabelCtxs.(l)>}; separator = "\n">
<parser.name>::<currentRule.ctxType>* <parser.name>::<currentRule.escapedName>(<args; separator=",">) {
 <currentRule.ctxType> *_localctx = _tracker.createInstance\<<currentRule.ctxType>\>(_ctx,
getState()<currentRule.args:{a | , <a.escapedName>}>);
 enterRule(_localctx, <currentRule.startState>, <parser.name>::Rule<currentRule.name; format
 = "cap">);
 <namedActions.init>
 <locals; separator = "\n">

#if __cplusplus > 201703L
 auto onExit = finally([=, this] {
#else
 auto onExit = finally([=] {
#endif
 <finallyAction>
   exitRule();
 });
 try {
<! TODO: untested !><if (currentRule.hasLookaheadBlock)>
   size_t alt;
   <endif>
   <code>
<! TODO: untested !>   <postamble; separator = "\n">
   <namedActions.after>
 }
 <if (exceptions)>
 <exceptions; separator="\n">
 <else>
 catch (RecognitionException &e) {
   _errHandler->reportError(this, e);
   _localctx->exception = std::current_exception();
   _errHandler->recover(this, _localctx->exception);
 }
 <endif>
```

```
 return _localctx;
}
>>

LeftRecursiveRuleFunctionHeader(currentRule, args, code, locals, ruleCtx, altLabelCtxs, namedActions,
finallyAction, postamble) ::= <<
<ruleCtx>
<! TODO: untested !><altLabelCtxs: {l | <altLabelCtxs.(l)>}; separator="\n">
<currentRule.ctxType>* <currentRule.escapedName>(<currentRule.args; separator = ", ">);
<currentRule.ctxType>*
 <currentRule.escapedName>(int precedence<currentRule.args: {a | , <a>}>);
>>

LeftRecursiveRuleFunction(currentRule, args, code, locals, ruleCtx, altLabelCtxs, namedActions, finallyAction,
postamble) ::= <<
<ruleCtx>
<altLabelCtxs: {l | <altLabelCtxs.(l)>}; separator="\n">

<parser.name>::<currentRule.ctxType>* <parser.name>::<currentRule.escapedName>(<currentRule.args;
separator=", ">) {
<! TODO: currentRule.args untested !>   return <currentRule.escapedName>(0<currentRule.args: {a | ,
<a.escapedName>}>);
}

<parser.name>::<currentRule.ctxType>* <parser.name>::<currentRule.escapedName>(int
precedence<currentRule.args:{a | , <a>}>) {
 ParserRuleContext *parentContext = _ctx;
 size_t parentState = getState();
 <parser.name>::<currentRule.ctxType> *_localctx = _tracker.createInstance\<<currentRule.ctxType>\>(_ctx,
parentState<currentRule.args: {a | , <a.escapedName>}>);
 <parser.name>::<currentRule.ctxType> *previousContext = _localctx;
 (void)previousContext; // Silence compiler,
 in case the context is not used by generated code.
 size_t startState = <currentRule.startState>;
 enterRecursionRule(_localctx, <currentRule.startState>, <parser.name>::Rule<currentRule.name; format = "cap">,
precedence);

   <namedActions.init>
<! TODO: untested !>    <locals; separator = "\n">

#if __cplusplus > 201703L
 auto onExit = finally([=, this] {
#else
 auto onExit = finally([=] {
#endif
 <if (finallyAction)><finallyAction><endif>
   unrollRecursionContexts(parentContext);
 });
```

```
 try {
   <if (currentRule.hasLookaheadBlock)>size_t alt;<endif>
   <code>
<! TODO: untested !><postamble; separator = "\n">
   <namedActions.after>
 }
 catch (RecognitionException &e) {
   _errHandler->reportError(this, e);
   _localctx->exception = std::current_exception();
   _errHandler->recover(this, _localctx->exception);
 }
 return _localctx;
}
>>

StructDeclHeader(struct, ctorAttrs, attrs, getters, dispatchMethods, interfaces, extensionMembers) ::= <<
class <file.exportMacro>
 <struct.escapedName> : public <if
(contextSuperClass)><contextSuperClass><else>antlr4::ParserRuleContext<endif><if(interfaces)>, <interfaces;
separator=", "><endif> {
public:
 <attrs: {a | <a>;}; separator = "\n">
 <if (ctorAttrs)><struct.escapedName>(antlr4::ParserRuleContext *parent, size_t invokingState);<endif>
 <struct.escapedName>(antlr4::ParserRuleContext *parent, size_t invokingState<ctorAttrs: {a | , <a>}>);
<if (struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
 <struct.escapedName>() = default;
 void copyFrom(<struct.escapedName> *context);
 using antlr4::ParserRuleContext::copyFrom;
<endif>

 virtual size_t getRuleIndex() const override;
 <getters: {g | <g>}; separator = "\n">

 <dispatchMethods; separator = "\n">
<! TODO: untested !> <extensionMembers; separator = "\n">
};

>>

StructDecl(struct, ctorAttrs, attrs, getters, dispatchMethods, interfaces, extensionMembers, signatures) ::= <<
//----------------- <struct.escapedName> ------------------------------------------------------------------

<if
 (ctorAttrs)>
<parser.name>::<struct.escapedName>::<struct.escapedName>(ParserRuleContext *parent, size_t invokingState)
 : <if (contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif>(parent, invokingState) {
}
<endif>
```

```
<parser.name>::<struct.escapedName>::<struct.escapedName>(ParserRuleContext *parent, size_t
invokingState<ctorAttrs: {a | , <a>}>)
 : <if (contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif>(parent, invokingState) {
 <struct.ctorAttrs: {a | this-><a.escapedName> = <a.escapedName>;}; separator="\n">
}

<getters: {g | <g>}; separator = "\n">

size_t <parser.name>::<struct.escapedName>::getRuleIndex() const {
 return <parser.name>::Rule<struct.derivedFromName; format = "cap">;
}

<if (struct.provideCopyFrom)>
void <parser.name>::<struct.escapedName>::copyFrom(<struct.escapedName> *ctx) {
 <if (contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif>::copyFrom(ctx);
  <struct.attrs: {a | this-><a.escapedName> = ctx-><a.escapedName>;}; separator = "\n">
}
<endif>
<dispatchMethods; separator = "\n\n">
<! TODO: untested !><extensionMembers; separator = "\n\n">

>>

AltLabelStructDeclHeader(struct, attrs, getters, dispatchMethods) ::= <<
class <file.exportMacro> <struct.escapedName> : public <currentRule.name; format = "cap">Context {
public:
 <struct.escapedName>(<currentRule.name; format = "cap">Context *ctx);

 <if (attrs)><attrs: {a | <a>;}; separator = "\n"><endif>
 <getters: {g | <g>}; separator = "\n">
 <dispatchMethods; separator = "\n">
};

>>

AltLabelStructDecl(struct, attrs, getters, dispatchMethods) ::= <<
//----------------- <struct.escapedName> ------------------------------------------------------------------

<! TODO: untested !><if (attrs)><attrs: {a | <a>}; separator = "\n"><endif>
<getters: {g | <g>}; separator = "\n">
<parser.name>::<struct.escapedName>::<struct.escapedName>(<currentRule.name; format = "cap">Context *ctx)
 { copyFrom(ctx); }

<dispatchMethods; separator="\n">
>>
```

```
CodeBlockForOuterMostAltHeader(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= "<! Required to
exist, but unused. !>"
CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if (currentOuterMostAltCodeBlock.altLabel)>
_localctx = _tracker.createInstance\<<parser.name>::<currentOuterMostAltCodeBlock.altLabel; format =
"cap">Context>(_localctx);
<endif>
enterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock = currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAltHeader(currentAltCodeBlock, locals, preamble, ops) ::= "<! Required to exist, but unused. !>"
CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<! TODO: untested !><locals; separator = "\n">
<! TODO: untested !><preamble; separator = "\n">
<ops; separator = "\n">
>>

LL1AltBlockHeader(choice, preamble, alts, error) ::= "<! Required to exist, but unused. !>"
LL1AltBlock(choice,
 preamble, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler->sync(this);
<! TODO: untested !><if (choice.label)>LL1AltBlock(choice, preamble, alts, error) <labelref(choice.label)> =
_input->LT(1);<endif>
<preamble; separator="\n">
switch (_input->LA(1)) {
 <choice.altLook, alts: {look, alt | <cases(tokens = look)> {
 <alt>
 break;
\}
}; separator = "\n">
default:
 <error>
}
>>

LL1OptionalBlockHeader(choice, alts, error) ::= "<! Required but unused. !>"
LL1OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler->sync(this);
switch (_input->LA(1)) {
 <choice.altLook, alts: {look, alt | <cases(tokens = look)> {
 <alt>
 break;
\}
}; separator="\n">
default:
```

```
 break;
}
>>

LL1OptionalBlockSingleAltHeader(choice, expr, alts, preamble, error, followExpr) ::= "<! Required but unused. !>"
LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
setState(<choice.stateNumber>);
_errHandler->sync(this);

<preamble;
 separator = "\n">
if (<expr>) {
 <alts; separator = "\n">
}
>>

LL1StarBlockSingleAltHeader(choice, loopExpr, alts, preamble, iteration) ::= "<! Required but unused. !>"
LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.stateNumber>);
_errHandler->sync(this);
<preamble; separator="\n">
while (<loopExpr>) {
 <alts; separator="\n">
 setState(<choice.loopBackStateNumber>);
 _errHandler->sync(this);
 <iteration>
}
>>

LL1PlusBlockSingleAltHeader(choice, loopExpr, alts, preamble, iteration) ::= "<! Required but unused. !>"
LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.blockStartStateNumber>); <! alt block decision !>
_errHandler->sync(this);
<preamble; separator="\n">
do {
 <alts; separator="\n">
 setState(<choice.stateNumber>); <! loopback/exit decision !>
 _errHandler->sync(this);
 <iteration>
} while (<loopExpr>);
>>

// LL(*) stuff

AltBlockHeader(choice, preamble, alts, error) ::= "<!
 Unused but must be present. !>"
AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>);
```

```
_errHandler->sync(this);
<! TODO: untested !><if (choice.label)><labelref(choice.label)> = _input->LT(1);<endif>
<! TODO: untested !><preamble; separator = "\n">
switch (getInterpreter\<atn::ParserATNSimulator>()->adaptivePredict(_input, <choice.decision>, _ctx)) {
<alts: {alt | case <i>: {
 <alt>
 break;
\}
}; separator="\n">
default:
 break;
}
>>

OptionalBlockHeader(choice, alts, error) ::= "<! Unused but must be present. !>"
OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler->sync(this);

switch (getInterpreter\<atn::ParserATNSimulator>()->adaptivePredict(_input, <choice.decision>, _ctx)) {
<alts: {alt | case <i><if (!choice.ast.greedy)> + 1<endif>: {
 <alt>
 break;
\}
}; separator = "\n">
default:
 break;
}
>>

StarBlockHeader(choice, alts, sync, iteration) ::= "<! Unused but must be present. !>"
StarBlock(choice, alts, sync, iteration)
 ::= <<
setState(<choice.stateNumber>);
_errHandler->sync(this);
alt = getInterpreter\<atn::ParserATNSimulator>()->adaptivePredict(_input, <choice.decision>, _ctx);
while (alt != <choice.exitAlt> && alt != atn::ATN::INVALID_ALT_NUMBER) {
 if (alt == 1<if(!choice.ast.greedy)> + 1<endif>) {
   <iteration>
   <alts> <! should only be one !>
 }
 setState(<choice.loopBackStateNumber>);
 _errHandler->sync(this);
 alt = getInterpreter\<atn::ParserATNSimulator>()->adaptivePredict(_input, <choice.decision>, _ctx);
}
>>

PlusBlockHeader(choice, alts, error) ::= "<! Required to exist, but unused. !>"
```

```
PlusBlock(choice, alts, error) ::= <<
setState(<choice.blockStartStateNumber>); <! alt block decision !>
_errHandler->sync(this);
alt = 1<if(!choice.ast.greedy)> + 1<endif>;
do {
 switch (alt) {
   <alts: {alt | case <i><if (!choice.ast.greedy)> + 1<endif>: {
     <alt>
     break;
   \}
}; separator="\n">
 default:
   <error>
 }
 setState(<choice.loopBackStateNumber>); <! loopback/exit
 decision !>
 _errHandler->sync(this);
 alt = getInterpreter\<atn::ParserATNSimulator>()->adaptivePredict(_input, <choice.decision>, _ctx);
} while (alt != <choice.exitAlt> && alt != atn::ATN::INVALID_ALT_NUMBER);
>>

Sync(s) ::= "Sync(s) sync(<s.expecting.name>);"

ThrowNoViableAltHeader(t) ::= "<! Unused but must be present. !>"
ThrowNoViableAlt(t) ::= "throw NoViableAltException(this);"

TestSetInlineHeader(s) ::= "<! Required but unused. !>"
TestSetInline(s) ::= <<
<s.bitsets: {bits | <if (rest(rest(bits.tokens)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount> & ~ 0x3fULL) == 0)
>>

bitsetBitfieldComparison(s, bits) ::= <<
(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> &&
 ((1ULL \<\< <offsetShift(s.varName, bits.shift)>) & <bits.calculated>)
 != 0)
>>

isZero ::= [
 "0": true,
 default: false
]
```

```
offsetShift(shiftAmount, offset, prefix = false) ::= <%
<if (!isZero.(offset))>(<if (prefix)><parser.name>::<endif><shiftAmount> - <offset>)<else><if
(prefix)><parser.name>::<endif><shiftAmount><endif>
%>

bitsetInlineComparison(s, bits) ::= <%
<bits.tokens: {t | <s.varName> == <parser.name>::<t.name>}; separator = "\n\n|| ">
%>

cases(tokens) ::= <<
<tokens: {t | case <parser.name>::<t.name>:}; separator="\n">
>>

InvokeRuleHeader(r, argExprsChunks) ::= "InvokeRuleHeader"
InvokeRule(r, argExprsChunks) ::= <<
setState(<r.stateNumber>);
<if(r.labels)><r.labels: {l | <labelref(l)> =
}><endif><r.escapedName>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprs
Chunks>);
>>

MatchTokenHeader(m) ::= "<! Required but unused. !>"
MatchToken(m) ::= <<
setState(<m.stateNumber>);
<if (m.labels)><m.labels: {l | <labelref(l)> = }><endif>match(<parser.name>::<m.escapedName>);
>>

MatchSetHeader(m, expr, capture) ::=
 "<! Required but unused. !>"
MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSetHeader(m, expr, capture) ::= "<! Required but unused. !>"
MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
setState(<m.stateNumber>);
<if (m.labels)><m.labels: {l | <labelref(l)> = }>_input->LT(1);<endif>
<capture>
if (<if (invert)><m.varName> == 0 || <m.varName> == Token::EOF || <else>!<endif>(<expr>)) {
 <if (m.labels)><m.labels: {l | <labelref(l)> = }><endif>_errHandler->recoverInline(this);
}
else {
 _errHandler->reportMatch(this);
 consume();
}
>>

WildcardHeader(w) ::= "<! Required but unused. !>"
```

```
Wildcard(w) ::= <<
setState(<w.stateNumber>);
<if (w.labels)><w.labels: {l | <labelref(l)> = }><endif>matchWildcard();
>>

// ACTION STUFF

ActionHeader(a, foo, chunks) ::= "<chunks>"
Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "ArgAction(a, chunks) <chunks>"

SemPredHeader(p,
 chunks, failChunks) ::= "<! Required but unused. !>"
SemPred(p, chunks, failChunks) ::= <<
setState(<p.stateNumber>);

if (!(<chunks>)) throw FailedPredicateException(this, <p.predicate><if (failChunks)>, <failChunks><elseif
(p.msg)>, <p.msg><endif>);
>>

ExceptionClauseHeader(e, catchArg, catchAction) ::= "<! Required but unused. !>"
ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
 <catchAction>
}
>>

// Lexer actions are not associated with model objects.

LexerSkipCommand()  ::= "skip();"
LexerMoreCommand()  ::= "more();"
LexerPopModeCommand() ::= "popMode();"

LexerTypeCommand(arg, grammar)      ::= "type = <grammar.name>::<arg>;"
LexerChannelCommand(arg, grammar)   ::= "channel = <arg>;"
LexerModeCommand(arg, grammar)      ::= "mode = <grammar.name>Mode::<arg>;"
LexerPushModeCommand(arg, grammar)  ::= "pushMode(<grammar.name>Mode::<arg>);"

ActionTextHeader(t) ::= "<t.text>"
ActionText(t) ::= "<t.text>"

ActionTemplateHeader(t) ::= "<! Required but unused.
 !>"
ActionTemplate(t) ::= "<t.st>"

ArgRefHeader(t) ::= "<! Required but unused. !>"
ArgRef(a) ::= "_localctx-><a.escapedName>"
```

```
LocalRefHeader(t) ::= "<! Required but unused. !>"
LocalRef(a) ::= "_localctx-><a.escapedName>"

RetValueRefHeader(t) ::= "<! Required but unused. !>"
RetValueRef(a) ::= "_localctx-><a.escapedName>"

QRetValueRefHeader(t) ::= "<! Required but unused. !>"
QRetValueRef(a) ::= "<ctx(a)>-><a.dict>-><a.escapedName>"
/** How to translate $tokenLabel */

TokenRefHeader(t) ::= "<! Required but unused. !>"
TokenRef(t) ::= "<ctx(t)>-><t.escapedName>"

LabelRefHeader(t) ::= "<! Required but unused. !>"
LabelRef(t) ::= "<ctx(t)>-><t.escapedName>"

ListLabelRefHeader(t) ::= "<! Required but unused. !>"
ListLabelRef(t) ::= "<ctx(t)>-><ListLabelName(t.escapedName)>"

SetAttrHeader(t) ::= "<! Required but unused. !>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>-><s.escapedName> = <rhsChunks>;"

InputSymbolType() ::= "<file.InputSymbolType; null = {Token}> *"

TokenPropertyRef_textHeader(t)
 ::= "<! Required but unused. !>"
TokenPropertyRef_text(t) ::= <<(<ctx(t)>-><t.label> != nullptr ? <ctx(t)>-><t.label>->getText() : "")>>

TokenPropertyRef_typeHeader(t) ::= "<! Required but unused. !>"
TokenPropertyRef_type(t) ::= "(<ctx(t)>-><t.label> != nullptr ? <ctx(t)>-><t.label>->getType() : 0)"

TokenPropertyRef_lineHeader(t) ::= "<! Required but unused. !>"
TokenPropertyRef_line(t) ::= "(<ctx(t)>-><t.label> != nullptr ? <ctx(t)>-><t.label>->getLine() : 0)"

TokenPropertyRef_posHeader(t) ::= "<! Required but unused. !>"
TokenPropertyRef_pos(t) ::= "(<ctx(t)>-><t.label> != nullptr ? <ctx(t)>-><t.label>->getCharPositionInLine() : 0)"

TokenPropertyRef_channelHeader(t) ::= "<! Required but unused. !>"
TokenPropertyRef_channel(t) ::= "(<ctx(t)>-><t.label> != nullptr ? <ctx(t)>-><t.label>->getChannel() : 0)"

TokenPropertyRef_indexHeader(t) ::= "<! Required but unused. !>"
TokenPropertyRef_index(t) ::= "(<ctx(t)>-><t.label> != nullptr ? <ctx(t)>-><t.label>->getTokenIndex()
 : 0)"

TokenPropertyRef_intHeader(t) ::= "<! Required but unused. !>"
TokenPropertyRef_int(t) ::= "(<ctx(t)>-><t.label> != nullptr ? std::stoi(<ctx(t)>-><t.label>->getText()) : 0)"
```

```
RulePropertyRef_startHeader(r)  ::= "<! Required but unused. !>"
RulePropertyRef_start(r) ::= "(<ctx(r)>-><r.label> != nullptr ? (<ctx(r)>-><r.label>->start) : nullptr)"

RulePropertyRef_stopHeader(r)  ::= "<! Required but unused. !>"
RulePropertyRef_stop(r)  ::= "(<ctx(r)>-><r.label> != nullptr ? (<ctx(r)>-><r.label>->stop) : nullptr)"

RulePropertyRef_textHeader(r)  ::= "<! Required but unused. !>"
RulePropertyRef_text(r)  ::= "(<ctx(r)>-><r.label> != nullptr ? _input->getText(<ctx(r)>-><r.label>->start,
<ctx(r)>-><r.label>->stop) : nullptr)"

RulePropertyRef_ctxHeader(r)   ::= "<! Required but unused. !>"
RulePropertyRef_ctx(r)   ::= "<ctx(r)>-><r.label>"

ThisRulePropertyRef_start(r) ::= "ThisRulePropertyRef_start(r) _localctx->start"
ThisRulePropertyRef_stop(r)  ::= "ThisRulePropertyRef_stop(r) _localctx->stop"

ThisRulePropertyRef_textHeader(r)
  ::= "<! Required but unused. !>"
ThisRulePropertyRef_text(r)  ::= "_input->getText(_localctx->start, _input->LT(-1))"

ThisRulePropertyRef_ctxHeader(r)   ::= "<! Required but unused. !>"
ThisRulePropertyRef_ctx(r)   ::= "_localctx"

ThisRulePropertyRef_parserHeader(r)  ::= "<! Required but unused. !>"
ThisRulePropertyRef_parser(r)  ::= "this"

NonLocalAttrRef(s) ::= "NonLocalAttrRef(s) ((<s.ruleName;
format=\"cap\">Context)getInvokingContext(<s.ruleIndex>)).<s.escapedName>"
SetNonLocalAttr(s, rhsChunks) ::=
 "SetNonLocalAttr(s, rhsChunks) ((<s.ruleName;
format=\"cap\">Context)getInvokingContext(<s.ruleIndex>)).<s.escapedName> = <rhsChunks>;"

AddToLabelListHeader(a) ::= "<! Required but unused. !>"
AddToLabelList(a) ::= <<
<ctx(a.label)>-><a.listName>.push_back(<labelref(a.label)>);
>>

TokenLabelType() ::= "<file.TokenLabelType; null = {Token}> *"

TokenDeclHeader(t) ::= "antlr4::<TokenLabelType()><t.escapedName> = nullptr"
TokenDecl(t) ::=
 "<! Variable Declaration !>"

TokenTypeDeclHeader(t) ::= "<! Local Variable !>"
TokenTypeDecl(t) ::= "size_t <t.escapedName> = 0;"

TokenListDeclHeader(t) ::= "std::vector\<antlr4::Token *> <t.escapedName>"
TokenListDecl(t) ::= "<! Variable Declaration !>"
```

```
RuleContextDeclHeader(r) ::= "<parser.name>::<r.ctxName> *<r.escapedName> = nullptr"
RuleContextDecl(r) ::= "<! Variable Declaration !>"

RuleContextListDeclHeader(rdecl) ::= "std::vector\<<rdecl.ctxName> *> <rdecl.escapedName>"
RuleContextListDecl(rdecl) ::= "<! Variable Declaration !>"

ContextTokenGetterDeclHeader(t) ::= "antlr4::tree::TerminalNode *<t.escapedName>();"
ContextTokenGetterDecl(t) ::= <<
tree::TerminalNode* <parser.name>::<t.ctx.name>::<t.escapedName>() {
 return getToken(<parser.name>::<t.escapedName>, 0);
}

>>

ContextTokenListGetterDeclHeader(t) ::= "std::vector\<antlr4::tree::TerminalNode *> <t.escapedName>();"
ContextTokenListGetterDecl(t) ::= <<
std::vector\<tree::TerminalNode *> <parser.name>::<t.ctx.name>::<t.escapedName>()
 {
 return getTokens(<parser.name>::<t.escapedName>);
}

>>

ContextTokenListIndexedGetterDeclHeader(t) ::= "antlr4::tree::TerminalNode* <t.escapedName>(size_t i);"
ContextTokenListIndexedGetterDecl(t)  ::= <<
tree::TerminalNode* <parser.name>::<t.ctx.name>::<t.escapedName>(size_t i) {
 return getToken(<parser.name>::<t.escapedName>, i);
}

>>

ContextRuleGetterDeclHeader(r) ::= "<r.ctxName> *<r.escapedName>();"
ContextRuleGetterDecl(r) ::= <<
<! Note: ctxName is the name of the context to return, while ctx is the owning context. !>
<parser.name>::<r.ctxName>* <parser.name>::<r.ctx.name>::<r.escapedName>() {
 return getRuleContext\<<parser.name>::<r.ctxName>\>(0);
}

>>

ContextRuleListGetterDeclHeader(r) ::= "std::vector\<<r.ctxName> *> <r.escapedName>();"
ContextRuleListGetterDecl(r) ::= <<
std::vector\<<parser.name>::<r.ctxName> *> <parser.name>::<r.ctx.name>::<r.escapedName>() {
 return getRuleContexts\<<parser.name>::<r.ctxName>\>();
}

>>
```

```
ContextRuleListIndexedGetterDeclHeader(r)
 ::= "<r.ctxName>* <r.escapedName>(size_t i);"
ContextRuleListIndexedGetterDecl(r) ::= <<
<parser.name>::<r.ctxName>* <parser.name>::<r.ctx.name>::<r.escapedName>(size_t i) {
 return getRuleContext\<<parser.name>::<r.ctxName>\>(i);
}

>>

LexerRuleContext() ::= "antlr4::RuleContext"

// The rule context name is the rule followed by a suffix; e.g. r becomes rContext.
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= <<
<tokenName; format = "lower">Token
>>

ImplicitRuleLabel(ruleName) ::= "<ruleName>Context"
ImplicitSetLabel(id) ::= "_tset<id>"
ListLabelName(label) ::= "<label>"

CaptureNextToken(d) ::= "CaptureNextToken(d) <d.varName> = _input->LT(1);"

CaptureNextTokenTypeHeader(d) ::= "<! Required but unused. !>"
CaptureNextTokenType(d) ::= "<d.varName> = _input->LA(1);"

ListenerDispatchMethodHeader(method) ::= <<
virtual void <if (method.isEnter)>enter<else>exit<endif>Rule(antlr4::tree::ParseTreeListener *listener) override;
>>
ListenerDispatchMethod(method)
 ::= <<
void <parser.name>::<struct.escapedName>::<if
(method.isEnter)>enter<else>exit<endif>Rule(tree::ParseTreeListener *listener) {
 auto parserListener = dynamic_cast\<<parser.grammarName>Listener *>(listener);
 if (parserListener != nullptr)
   parserListener-><if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(this);
}
>>

VisitorDispatchMethodHeader(method) ::= <<

virtual std::any accept(antlr4::tree::ParseTreeVisitor *visitor) override;
>>
VisitorDispatchMethod(method) ::=  <<

std::any <parser.name>::<struct.escapedName>::accept(tree::ParseTreeVisitor *visitor) {
```

```
 if (auto parserVisitor = dynamic_cast\<<parser.grammarName>Visitor*>(visitor))
   return parserVisitor->visit<struct.derivedFromName; format="cap">(this);
 else
   return visitor->visitChildren(this);
}
>>

AttributeDeclHeader(d) ::= "<d.type> <d.escapedName><if(d.initValue)> = <d.initValue><endif>"
AttributeDecl(d) ::= "<d.type> <d.escapedName>"

/** If
 we don't know location of label def x, use this template */
labelref(x) ::= "<if (!x.isLocal)>antlrcpp::downCast\<<x.ctx.name> *>(_localctx)-><endif><x.escapedName>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "antlrcpp::downCast\<<actionChunk.ctx.name> *>(_localctx)"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "precpred(_ctx, <opPrec>)"
recRuleSetReturnAction(src,name) ::= "recRuleSetReturnAction(src,name) $<name>=$<src>.<name>;"
recRuleSetStopToken() ::= "_ctx->stop = _input->LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
_localctx = _tracker.createInstance\<<ctxName>Context>(parentContext, parentState);
<if(label)>
<if(isListLabel)>
_localctx-><label>.push_back(previousContext);
<else>
_localctx-><label> = previousContext;
<endif>
<endif>
pushNewRecursionContext(_localctx, startState, Rule<ruleName; format = "cap">);
>>

// Separate context variable to avoid frequent pointer
 type casts.
recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
auto newContext = _tracker.createInstance\<<currentAltLabel; format =
"cap">Context>(_tracker.createInstance\<<ruleName; format="cap">Context>(parentContext, parentState));
_localctx = newContext;
<if(label)>
<if(isListLabel)>
newContext-><label>.push_back(previousContext);
<else>
newContext-><label> = previousContext;
<endif>
<endif>
pushNewRecursionContext(newContext, startState, Rule<ruleName; format = "cap">);
```

```
>>

recRuleReplaceContext(ctxName) ::= <<
_localctx = _tracker.createInstance\<<ctxName>Context>(_localctx);
_ctx = _localctx;
previousContext = _localctx;
>>

recRuleSetPrevCtx() ::= <<
if (!_parseListeners.empty())
 triggerExitRuleEvent();
previousContext = _localctx;
>>

/** Using a type to init value map, try to init a type; if not in table
*  must be an object, default value is "null".
*/
initValue(typeName) ::= <<
<cppTypeInitMap.(typeName)>
>>
```

Found in path(s):
* /opt/cola/permits/2224916300_1729024207.2615368/0/antlr4-4-13-2-jar/org/antlr/v4/tool/templates/codegen/Cpp/Cpp.stg
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*/
```

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* /opt/cola/permits/2224916300_1729024207.2615368/0/antlr4-4-13-2-jar/org/antlr/v4/tool/templates/codegen/Cpp/Files.stg
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*  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

/** templates used to generate make-compatible dependencies */

/** Generate "f : x, y, z" dependencies for input
*  dependencies and generated files. in and out
```

```
*  are File objects.  For example, you can say
*  <f.canonicalPath>
*/
dependencies(grammarFileName,in,out) ::= <<
<if(in)><grammarFileName>: <in; separator=", "><endif>
<out:{f | <f> : <grammarFileName>};
 separator="\n">
>>
```

Found in path(s):
* /opt/cola/permits/2224916300_1729024207.2615368/0/antlr4-4-13-2-jar/org/antlr/v4/tool/templates/depend.stg
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*  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
*  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

phpTypeInitMap ::= [
 "int":"0",
 "long":"0",
 "float":"0.0",
```

```
 "double":"0.0",
 "boolean":"false",
 default:"null"
]

// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<parser>
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName,
 file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage>;
<endif>
<header>
use Antlr\\Antlr4\\Runtime\\Tree\\ParseTreeListener;

/**
* This interface defines a complete listener for a parse tree produced by
* {@see <file.parserName>}.
*/
interface <file.grammarName>Listener extends ParseTreeListener {
 <file.listenerNames:{lname |
/**
<if(file.listenerLabelRuleNames.(lname))>
* Enter a parse tree produced by the `<lname>`
* labeled alternative in {@see <file.parserName>::<file.listenerLabelRuleNames.(lname)>()\}.
<else>
* Enter a parse tree produced by {@see <file.parserName>::<lname>()\}.
<endif>
* @param $context The parse tree.
*/
public function enter<lname; format="cap">(Context\\<lname; format="cap">Context $context): void;
/**
<if(file.listenerLabelRuleNames.(lname))>
* Exit a parse tree produced by the `<lname>` labeled alternative
* in {@see <file.parserName>::<file.listenerLabelRuleNames.(lname)>()\}.
<else>
* Exit a parse
 tree produced by {@see <file.parserName>::<lname>()\}.
<endif>
* @param $context The parse tree.
*/
public function exit<lname; format="cap">(Context\\<lname; format="cap">Context $context): void;};
```

```
separator="\n">
}
>>

BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage>;
<endif>
<header>

use Antlr\\Antlr4\\Runtime\\ParserRuleContext;
use Antlr\\Antlr4\\Runtime\\Tree\\ErrorNode;
use Antlr\\Antlr4\\Runtime\\Tree\\TerminalNode;

/**
* This class provides an empty implementation of {@see <file.grammarName>Listener},
* which can be extended to create a listener which only needs to handle a subset
* of the available methods.
*/
class <file.grammarName>BaseListener implements <file.grammarName>Listener
{
 <file.listenerNames:{lname |
/**
* {@inheritdoc\}
*
* The default implementation does nothing.
*/
public function enter<lname; format="cap">(Context\\<lname; format="cap">Context
 $context): void {\}

/**
* {@inheritdoc\}
*
* The default implementation does nothing.
*/
public function exit<lname; format="cap">(Context\\<lname; format="cap">Context $context): void {\}};
separator="\n">

 /**
  * {@inheritdoc\}
  *
  * The default implementation does nothing.
  */
 public function enterEveryRule(ParserRuleContext $context): void {}

 /**
  * {@inheritdoc\}
```

```
 *
 * The default implementation does nothing.
 */
 public function exitEveryRule(ParserRuleContext $context): void {}

 /**
 * {@inheritdoc\}
 *
 * The default implementation does nothing.
 */
 public function visitTerminal(TerminalNode $node): void {}

 /**
 * {@inheritdoc\}
 *
 * The default implementation does nothing.
 */
 public function visitErrorNode(ErrorNode $node): void {}
}
>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage>;
<endif>

<header>
use Antlr\\Antlr4\\Runtime\\Tree\\ParseTreeVisitor;

/**
 * This interface defines a complete generic visitor for a parse tree produced by {@see <file.parserName>}.
*/
interface <file.grammarName>Visitor extends ParseTreeVisitor
{
 <file.visitorNames:{lname |
/**
<if(file.visitorLabelRuleNames.(lname))>
* Visit a parse tree produced by the `<lname>` labeled alternative
* in {@see <file.parserName>::<file.visitorLabelRuleNames.(lname)>()\}.
<else>
* Visit a parse tree produced by {@see <file.parserName>::<lname>()\}.
<endif>
*
* @param Context\\<lname; format="cap">Context $context The parse tree.
*
* @return mixed The visitor result.
*/
```

```
public function visit<lname; format="cap">(Context\\<lname; format="cap">Context $context);};
separator="\n\n">
}
>>

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage>;
<endif>
<header>
use Antlr\\Antlr4\\Runtime\\Tree\\AbstractParseTreeVisitor;

/**
* This class provides an
 empty implementation of {@see <file.grammarName>Visitor},
* which can be extended to create a visitor which only needs to handle a subset
* of the available methods.
*/
class <file.grammarName>BaseVisitor extends AbstractParseTreeVisitor implements <file.grammarName>Visitor
{
 <file.visitorNames:{lname |
/**
* {@inheritdoc\}
*
* The default implementation returns the result of calling
* {@see self::visitChildren()\} on `context`.
*/
public function visit<lname; format="cap">(Context\\<lname; format="cap">Context $context)
{
   return $this->visitChildren($context);
\}}; separator="\n\n">
}
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
\<?php

/*
* Generated from <grammarFileName> by ANTLR <ANTLRVersion>
*/

>>
Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
```

```
namespace<if(file.genPackage)> <file.genPackage><endif> {
<if(namedActions.header)><namedActions.header><endif>
 use
 Antlr\\Antlr4\\Runtime\\Atn\\ATN;
 use Antlr\\Antlr4\\Runtime\\Atn\\ATNDeserializer;
 use Antlr\\Antlr4\\Runtime\\Atn\\ParserATNSimulator;
 use Antlr\\Antlr4\\Runtime\\Dfa\\DFA;
 use Antlr\\Antlr4\\Runtime\\Error\\Exceptions\\FailedPredicateException;
 use Antlr\\Antlr4\\Runtime\\Error\\Exceptions\\NoViableAltException;
 use Antlr\\Antlr4\\Runtime\\PredictionContexts\\PredictionContextCache;
 use Antlr\\Antlr4\\Runtime\\Error\\Exceptions\\RecognitionException;
 use Antlr\\Antlr4\\Runtime\\RuleContext;
 use Antlr\\Antlr4\\Runtime\\Token;
 use Antlr\\Antlr4\\Runtime\\TokenStream;
 use Antlr\\Antlr4\\Runtime\\Vocabulary;
 use Antlr\\Antlr4\\Runtime\\VocabularyImpl;
 use Antlr\\Antlr4\\Runtime\\RuntimeMetaData;
 use Antlr\\Antlr4\\Runtime\\Parser;
<if(namedActions.definitions)><namedActions.definitions><endif>

 final class <parser.name> extends <superClass; null="Parser">
 {
  <if(parser.tokens)>
  public const <parser.tokens:{k | <k> = <parser.tokens.(k)>}; separator=",
", wrap, anchor>;
  <endif>

  <if(parser.rules)>
  public const <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
  <endif>

  /**
   * @var array\<string>
   */
  public const RULE_NAMES = [
   <parser.ruleNames:{r | '<r>'}; separator=", ", wrap, anchor>
  ];

  <vocabulary(parser.literalNames, parser.symbolicNames)>

  <atn>
  protected static $atn;
  protected static $decisionToDFA;
  protected static $sharedContextCache;
  <if(namedActions.members)>

  <namedActions.members>
  <endif>
```

```
<parser:(ctor)()>

private static function initialize(): void
{
 if (self::$atn !== null) {
  return;
 }

 RuntimeMetaData::checkVersion('<file.ANTLRVersion>', RuntimeMetaData::VERSION);

 $atn = (new ATNDeserializer())->deserialize(self::SERIALIZED_ATN);

 $decisionToDFA = [];
 for ($i = 0, $count = $atn->getNumberOfDecisions(); $i \< $count; $i++) {
  $decisionToDFA[] = new DFA($atn->getDecisionState($i), $i);
 }

 self::$atn = $atn;
 self::$decisionToDFA
= $decisionToDFA;
 self::$sharedContextCache = new PredictionContextCache();
}

public function getGrammarFileName(): string
{
 return "<parser.grammarFileName>";
}

public function getRuleNames(): array
{
 return self::RULE_NAMES;
}

public function getSerializedATN(): array
{
 return self::SERIALIZED_ATN;
}

public function getATN(): ATN
{
 return self::$atn;
}

public function getVocabulary(): Vocabulary
    {
        static $vocabulary;
```

```
  return $vocabulary = $vocabulary ?? new VocabularyImpl(self::LITERAL_NAMES, self::SYMBOLIC_NAMES);
      }
<if(funcs)>

 <funcs; separator="\n\n">
<endif>
<if(sempredFuncs)>

 public function sempred(?RuleContext $localContext, int $ruleIndex, int $predicateIndex): bool
 {
  switch ($ruleIndex) {
  <parser.sempredFuncs.values:{f|
 case <f.ruleIndex>:
  return $this->sempred<f.name; format="cap">($localContext, $predicateIndex);}; separator="\n\n">

   default:
    return
true;
   }
 }

 <sempredFuncs.values; separator="\n\n">
<endif>
}
}

namespace <if(file.genPackage)><file.genPackage>\\<endif>Context {
use Antlr\\Antlr4\\Runtime\\ParserRuleContext;
use Antlr\\Antlr4\\Runtime\\Token;
use Antlr\\Antlr4\\Runtime\\Tree\\ParseTreeVisitor;
use Antlr\\Antlr4\\Runtime\\Tree\\TerminalNode;
use Antlr\\Antlr4\\Runtime\\Tree\\ParseTreeListener;
use <if(file.genPackage)><file.genPackage>\\<endif><parser.name>;
<if (file.genVisitor)>use <if(file.genPackage)><file.genPackage>\\<endif><file.grammarName>Visitor;<endif>
<if (file.genListener)>use <if(file.genPackage)><file.genPackage>\\<endif><file.grammarName>Listener;<endif>
<namedActions.contexts>

<funcs :{ func | <func.ruleCtx><if(func.altLabelCtxs)>

<func.altLabelCtxs:{l | <func.altLabelCtxs.(l)>}; separator="\n\n"><endif> }; separator="\n\n">
}
>>

vocabulary(literalNames, symbolicNames) ::= <<
/**
* @var array\<string|null>
*/
```

```
private const LITERAL_NAMES = [
   <literalNames:{t | <t>}; null="null",
 separator=", ", wrap, anchor>
];

/**
* @var array\<string>
*/
private const SYMBOLIC_NAMES = [
   <symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
];
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>

public function action(?RuleContext $localContext, int $ruleIndex, int $actionIndex): void
{
 switch ($ruleIndex) {
 <recog.actionFuncs.values:{f|
 case <f.ruleIndex>:
  $this->action<f.name; format="cap">($localContext, $actionIndex);
  break;}; separator="\n\n">
 }
}

<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>

public function sempred(?RuleContext $localContext, int $ruleIndex, int $predicateIndex): bool
{
 switch ($ruleIndex) {
 <recog.sempredFuncs.values:{f|
   case <f.ruleIndex>:
       return $this->sempred<f.name; format="cap">($localContext, $predicateIndex);}; separator="\n\n">
 }

 return true;
}
<sempredFuncs.values; separator="\n\n">
<endif>
>>

parser_ctor(p) ::= <<
public function __construct(TokenStream
 $input)
{
```

```
 parent::__construct($input);

 self::initialize();

 $this->interp = new ParserATNSimulator($this, self::$atn, self::$decisionToDFA, self::$sharedContextCache);
}
>>

/**
* This generates a private method since the actionIndex is generated, making
* an overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
private function action<r.name; format="cap">(?<r.ctxType> $localContext, int $actionIndex): void
{
 switch ($actionIndex) {
 <actions:{index|
 case <index>:
 <actions.(index)>

 break;}; separator="\n\n">
 }
}
>>

/**
* This generates a private method since the predicateIndex is generated, making
* an overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
private function sempred<r.name; format="cap">(?Context\\<r.ctxType> $localContext, int $predicateIndex): bool
{
 switch ($predicateIndex) {
 <actions:{index|
   case <index>:
       return <actions.(index)>;}; separator="\n\n">
 }

 return
 true;
}
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,exceptions,postamble)
::= <<
/**
* @throws RecognitionException
*/
```

```
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><endif>public function
<currentRule.escapedName>(<args; separator=",">): Context\\<currentRule.ctxType>
{
  $localContext = new Context\\<currentRule.ctxType>($this->ctx, $this->getState()<currentRule.args:{a | ,
$<a.name>}>);

  $this->enterRule($localContext, <currentRule.startState>, self::RULE_<currentRule.name>);
  <namedActions.init>
  <locals; separator="\n">

  try {
     <code>
     <postamble; separator="\n">
     <namedActions.after>
  }<if(exceptions)><exceptions; separator="\n"><else> catch (RecognitionException $exception) {
     $localContext->exception = $exception;
     $this->errorHandler->reportError($this, $exception);
     $this->errorHandler->recover($this, $exception);
  }<endif> finally
 {
     <finallyAction>
     $this->exitRule();
  }

  return $localContext;
}
>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamb
le) ::= <<
/**
* @throws RecognitionException
*/
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><endif>public function <currentRule.name>(<args;
separator=", ">): Context\\<currentRule.ctxType>
{
 return $this->recursive<currentRule.name; format="cap">(0<currentRule.args:{a | , <a.name>}>);
}

/**
* @throws RecognitionException
*/
private function recursive<currentRule.name; format="cap">(int $precedence<args:{a | , <a>}>):
Context\\<currentRule.ctxType>
{
 $parentContext = $this->ctx;
 $parentState = $this->getState();
 $localContext = new Context\\<currentRule.ctxType>($this->ctx, $parentState<currentRule.args:{a | ,
```

```
<a.name>}>);
 $previousContext = $localContext;
 $startState = <currentRule.startState>;
 $this->enterRecursionRule($localContext, <currentRule.startState>,
 self::RULE_<currentRule.name>, $precedence);
 <namedActions.init>
 <locals; separator="\n">

 try {
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 } catch (RecognitionException $exception) {
  $localContext->exception = $exception;
  $this->errorHandler->reportError($this, $exception);
  $this->errorHandler->recover($this, $exception);
 } finally {
  <finallyAction>
  $this->unrollRecursionContexts($parentContext);
 }

 return $localContext;
}
>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>$localContext = new
Context\\<currentOuterMostAltCodeBlock.altLabel; format="cap">Context($localContext);<endif>
$this->enterOuterAlt($localContext, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>

LL1AltBlock(choice,
 preamble, alts, error) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);
<if(choice.label)><labelref(choice.label)> = $this->input->LT(1);<endif>
<preamble; separator="\n">

switch ($this->input->LA(1)) {
   <choice.altLook,alts:{look,alt| <cases(tokens=look)>
 <alt>
```

```
 break;}; separator="\n\n">

default:
 <error>
}
>>

LL1OptionalBlock(choice, alts, error) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);

switch ($this->input->LA(1)) {
   <choice.altLook,alts:{look,alt| <cases(tokens=look)>
 <alt>
 break;}; separator="\n\n">

default:
 break;
}
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);
<preamble; separator="\n">

if (<expr>) {
 <alts; separator="\n">
}
>>

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);

<preamble;
 separator="\n">
while (<loopExpr>) {
 <alts; separator="\n">
 $this->setState(<choice.loopBackStateNumber>);
 $this->errorHandler->sync($this);
 <iteration>
}
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
$this->setState(<choice.blockStartStateNumber>); <! alt block decision !>
$this->errorHandler->sync($this);
```

```
<preamble; separator="\n">
do {
 <alts; separator="\n">
 $this->setState(<choice.stateNumber>); <! loopback/exit decision !>
 $this->errorHandler->sync($this);
 <iteration>
} while (<loopExpr>);
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);
<if(choice.label)><labelref(choice.label)> = $this->input->LT(1);<endif>
<preamble; separator="\n">

switch ($this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx)) {
 <alts:{alt |
case <i>:
   <alt>
break;}; separator="\n\n">
}
>>

OptionalBlock(choice,
 alts, error) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);

switch ($this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx)) {
<alts:{alt |
   case <i><if(!choice.ast.greedy)>+1<endif>:
     <alt>
 break;}; separator="\n\n">
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);

$alt = $this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx);

while ($alt !== <choice.exitAlt> && $alt !== ATN::INVALID_ALT_NUMBER) {
 if ($alt === 1<if(!choice.ast.greedy)>+1<endif>) {
  <iteration>
```

```
  <alts> <! should only be one !>
 }

 $this->setState(<choice.loopBackStateNumber>);
 $this->errorHandler->sync($this);

 $alt = $this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx);
}
>>

PlusBlock(choice, alts, error) ::= <<
$this->setState(<choice.blockStartStateNumber>); <! alt block decision !>
$this->errorHandler->sync($this);

$alt
 = 1<if(!choice.ast.greedy)>+1<endif>;

do {
 switch ($alt) {
 <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n\n">
 default:
  <error>
 }

 $this->setState(<choice.loopBackStateNumber>); <! loopback/exit decision !>
 $this->errorHandler->sync($this);

 $alt = $this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx);
} while ($alt !== <choice.exitAlt> && $alt !== ATN::INVALID_ALT_NUMBER);
>>

Sync(s) ::= "sync(<s.expecting.name>);"

ThrowNoViableAlt(t) ::= "throw new NoViableAltException($this);"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.tokens)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) === 0
>>
```

```
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName,
 bits.shift)>})> && ((1 \<\< <offsetShiftVar(s.varName, bits.shift)>) & <bits.calculated>) !== 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>($<shiftAmount> - <offset>)<else>$<shiftAmount><endif>
%>
offsetShiftConst(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(self::<shiftAmount> - <offset>)<else>self::<shiftAmount><endif>
%>

bitsetInlineComparison(s, bits) ::= <%
<bits.tokens:{t | $<s.varName> === self::<t.name>}; separator=" || ">
%>

cases(tokens) ::= <<
<tokens:{t | case self::<t.name>:}; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
$this->setState(<r.stateNumber>);
<if(r.labels)><r.labels:{l | <labelref(l)> = }><endif>$this-><if(r.ast.options.p)>recursive<r.name;
format="cap"><else><r.escapedName><endif>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif>
<endif><argExprsChunks>);
>>

MatchToken(m) ::= <<
$this->setState(<m.stateNumber>);
<if(m.labels)><m.labels:{l
 | <labelref(l)> = }><endif>$this->match(self::<m.name>);
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
$this->setState(<m.stateNumber>);

<if(m.labels)><m.labels:{l | <labelref(l)> = }>$this->input->LT(1);<endif>
<capture>
```

```
if (<if(invert)>$<m.varName> \<= 0 || <else>!<endif>(<expr>)) {
    <if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>$this->errorHandler->recoverInline($this);
} else {
 if ($this->input->LA(1) === Token::EOF) {
    $this->matchedEOF = true;
   }

 $this->errorHandler->reportMatch($this);
 $this->consume();
}
>>

Wildcard(w) ::= <<
$this->setState(<w.stateNumber>);
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>$this->matchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
$this->setState(<p.stateNumber>);

if
 (!(<chunks>)) {
   throw new FailedPredicateException($this, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>,
<p.msg><endif>);
}
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
 <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "$this->skip();"
LexerMoreCommand()  ::= "$this->more();"
LexerPopModeCommand() ::= "$this->popMode();"

LexerTypeCommand(arg, grammar)      ::= "$this->type = <arg>;"
LexerChannelCommand(arg, grammar)   ::= "$this->channel = <arg>;"
LexerModeCommand(arg, grammar)      ::= "$this->mode = <arg>;"
```

```
LexerPushModeCommand(arg, grammar)  ::= "$this->pushMode(<arg>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "$localContext-><a.name>"
LocalRef(a) ::= "$localContext-><a.name>"
RetValueRef(a) ::= "$localContext-><a.name>"
QRetValueRef(a) ::= "<ctx(a)>-><a.dict>-><a.name>"
/** How to translate $tokenLabel */
TokenRef(t)
 ::= "<ctx(t)>-><t.name>"
LabelRef(t) ::= "<ctx(t)>-><t.name>"
ListLabelRef(t) ::= "<ctx(t)>-><ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>-><s.name> = <rhsChunks>;"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(<ctx(t)>-><t.label> !== null ? <ctx(t)>-><t.label>->getText() : null)"
TokenPropertyRef_type(t) ::= "(<ctx(t)>-><t.label> !== null ? <ctx(t)>-><t.label>->getType() : 0)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>-><t.label> !== null ? <ctx(t)>-><t.label>->getLine() : 0)"
TokenPropertyRef_pos(t) ::= "(<ctx(t)>-><t.label> !== null ? <ctx(t)>-><t.label>->getCharPositionInLine() : 0)"
TokenPropertyRef_channel(t) ::= "(<ctx(t)>-><t.label> !== null ? <ctx(t)>-><t.label>->getChannel() : 0)"
TokenPropertyRef_index(t) ::= "(<ctx(t)>-><t.label> !== null ? <ctx(t)>-><t.label>->getTokenIndex() : 0)"
TokenPropertyRef_int(t) ::= "(<ctx(t)>-><t.label> !== null ? (int) <ctx(t)>-><t.label>->getText()
 : 0)"

RulePropertyRef_start(r) ::= "(<ctx(r)>-><r.label> !== null ? (<ctx(r)>-><r.label>->start) : null)"
RulePropertyRef_stop(r)  ::= "(<ctx(r)>-><r.label> !== null ? (<ctx(r)>-><r.label>->stop) : null)"
RulePropertyRef_text(r)  ::= "(<ctx(r)>-><r.label> !== null ? $this->input->getTextByTokens(<ctx(r)>-><r.label>-
>start, <ctx(r)>-><r.label>->stop) : null)"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>-><r.label>"
RulePropertyRef_parser(r)::= "\$this"

ThisRulePropertyRef_start(r) ::= "$localContext->start"
ThisRulePropertyRef_stop(r)  ::= "$localContext->stop"
ThisRulePropertyRef_text(r)  ::= "$this->input->getTextByTokens($localContext->start, $this->input->LT(-1))"
ThisRulePropertyRef_ctx(r)  ::= "$localContext"
ThisRulePropertyRef_parser(r)::= "$this"

NonLocalAttrRef(s)        ::= "\$this->getInvokingContext(<s.ruleIndex>)-><s.name>"
SetNonLocalAttr(s, rhsChunks) ::= "\$this->getInvokingContext(<s.ruleIndex>)-><s.name> = <rhsChunks>;"

AddToLabelList(a) ::= "<ctx(a.label)>-><a.listName>[]
 = <labelref(a.label)>;"

TokenDecl(t) ::= "<TokenLabelType()> $<t.name>"
TokenTypeDecl(t) ::= ""
```

```
TokenListDecl(t) ::= "array $<t.name> = []"
RuleContextDecl(r) ::= "<r.ctxName> $<r.name>"
RuleContextListDecl(rdecl) ::= "array $<rdecl.name> = []"
AttributeDecl(d) ::= "<d.type> $<d.name><if(d.initValue)> = <d.initValue><endif>"

PropertiesDecl(struct) ::= <<
<if(struct.tokenListDecls)>
 <struct.tokenListDecls : {d | /**
* @var array\<Token>|null $<d.name>
*/
public $<d.name>;}; separator="\n\n">
<endif>
<if(struct.tokenDecls)>
<if(struct.tokenListDecls)>

<endif>
 <struct.tokenDecls : {d | /**
* @var <TokenLabelType()>|null $<d.name>
*/
public $<d.name>;}; separator="\n\n">
<endif>
<if(struct.ruleContextDecls)>
<if(struct.tokenListDecls || struct.tokenDecls)>

<endif>
 <struct.ruleContextDecls : {d | /**
* @var <d.ctxName>|null $<d.name>
*/
public $<d.name>;}; separator="\n\n">
<endif>
<if(struct.ruleContextListDecls)>
<if(struct.tokenListDecls || struct.tokenDecls
 || struct.ruleContextDecls)>

<endif>
 <struct.ruleContextListDecls : {d | /**
* @var array\<<d.ctxName>\>|null $<d.name>
*/
public $<d.name>;}; separator="\n\n">
<endif>
<if(struct.attributeDecls)>
<if(struct.tokenListDecls || struct.tokenDecls || struct.ruleContextDecls || struct.ruleContextListDecls)>

<endif>
 <struct.attributeDecls : {d | /**
* @var <d.type><if(!d.initValue)>|null<endif> $<d.name>
*/
public $<d.name><if(d.initValue)> = <d.initValue><endif>;}; separator="\n\n">
```

```
<endif>

>>

ContextTokenGetterDecl(t) ::= <<
public function <t.name>(): ?TerminalNode
{
   return $this->getToken(<parser.name>::<t.name>, 0);
}
>>

ContextTokenListGetterDecl(t)  ::= <<
>>

ContextTokenListIndexedGetterDecl(t)  ::= <<
/**
* @return array\<TerminalNode>|TerminalNode|null
*/
public function <t.name>(?int $index = null)
{
 if ($index === null) {
  return $this->getTokens(<parser.name>::<t.name>);
 }

   return $this->getToken(<parser.name>::<t.name>, $index);
}
>>

ContextRuleGetterDecl(r)
       ::= <<
public function <r.name>(): ?<r.ctxName>
{
 return $this->getTypedRuleContext(<r.ctxName>::class, 0);
}
>>

ContextRuleListGetterDecl(r)   ::= <<
>>

ContextRuleListIndexedGetterDecl(r)   ::= <<
/**
* @return array\<<r.ctxName>\>|<r.ctxName>|null
*/
public function <r.name>(?int $index = null)
{
 if ($index === null) {
  return $this->getTypedRuleContexts(<r.ctxName>::class);
 }
```

```
  return $this->getTypedRuleContext(<r.ctxName>::class, $index);
}
>>

LexerRuleContext() ::= "RuleContext"

/**
* The rule context name is the rule followed by a suffix; e.g., r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "<tokenName>"
ImplicitRuleLabel(ruleName)   ::= "<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)    ::= "<label>"

CaptureNextToken(d) ::= "$<d.varName> = \$this->input->LT(1);"
CaptureNextTokenType(d) ::= "$<d.varName> = $this->input->LA(1);"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,signatures)
 ::= <<
class <struct.name> extends
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)> implements
<interfaces; separator=", "><endif>
{
<PropertiesDecl(struct)>
 public function __construct(?ParserRuleContext $parent, ?int $invokingState = null<ctorAttrs:{a | , ?<a> = null}>)
 {
  parent::__construct($parent, $invokingState);
<if(struct.ctorAttrs)>

  <struct.ctorAttrs:{a | $this-><a.name> = $<a.name> ?? $this-><a.name>;}; separator="\n">
<endif>
 }

 public function getRuleIndex(): int
 {
    return <parser.name>::RULE_<struct.derivedFromName>;
   }
<if(getters)>

   <getters:{g | <g>}; separator="\n\n">
<endif>
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
 public function copyFrom(ParserRuleContext $context): void
 {
  parent::copyFrom($context);
```

```
  <struct.attrs:{a | $this-><a.name> = $context-><a.name>;}; separator="\n">
 }
<endif>
<if(dispatchMethods)>

 <dispatchMethods;
 separator="\n\n">
<endif>
<if(extensionMembers)>

 <extensionMembers; separator="\n\n">
<endif>
}
>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.name> extends <struct.parentRule; format="cap">Context
{
<PropertiesDecl(struct)>
 public function __construct(<struct.parentRule; format="cap">Context $context)
 {
     parent::__construct($context);

     $this->copyFrom($context);
   }
<if(getters)>

   <getters:{g | <g>}; separator="\n\n">
<endif>
<if(dispatchMethods)>

 <dispatchMethods; separator="\n\n">
<endif>
}
>>

ListenerDispatchMethod(method) ::= <<
public function <if(method.isEnter)>enter<else>exit<endif>Rule(ParseTreeListener $listener): void
{
 if ($listener instanceof <parser.grammarName>Listener) {
     $listener-><if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">($this);
   }
}
>>

VisitorDispatchMethod(method) ::= <<
public function accept(ParseTreeVisitor $visitor): mixed
```

```
{
 if ($visitor
 instanceof <parser.grammarName>Visitor) {
     return $visitor->visit<struct.derivedFromName; format="cap">($this);
   }

 return $visitor->visitChildren($this);
}
>>

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>$localContext-><endif><x.name>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "$localContext"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)  ::= "\$this->precpred(\$this->ctx, <opPrec>)"

recRuleSetReturnAction(src,name)   ::= "\$<name> = \$<src>-><name>;"

recRuleSetStopToken()                ::= "$this->ctx->stop = $this->input->LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
$localContext = new Context\\<ctxName>Context($parentContext, $parentState);
<if(label)>
<if(isListLabel)>
$localContext-><label>[] = $previousContext;
<else>
$localContext-><label> = $previousContext;
<endif>
<endif>

$this->pushNewRecursionContext($localContext,
 $startState, self::RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
$localContext = new Context\\<currentAltLabel; format="cap">Context(new Context\\<ruleName;
format="cap">Context($parentContext, $parentState));
<if(label)>
<if(isListLabel)>
$localContext-><label>[] = $previousContext;
<else>
$localContext-><label> = $previousContext;
<endif>
<endif>
```

```
$this->pushNewRecursionContext($localContext, $startState, self::RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName) ::= <<
$localContext = new Context\\<ctxName>Context($localContext);
$this->ctx = $localContext;
$previousContext = $localContext;
>>

recRuleSetPrevCtx() ::= <<
if ($this->getParseListeners() !== null) {
   $this->triggerExitRuleEvent();
}

$previousContext = $localContext;
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
<lexer>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs,
 superClass) ::= <<
namespace<if(lexerFile.genPackage)> <lexerFile.genPackage><endif> {
<if(namedActions.header)><namedActions.header><endif>
 use Antlr\\Antlr4\\Runtime\\Atn\\ATNDeserializer;
 use Antlr\\Antlr4\\Runtime\\Atn\\LexerATNSimulator;
 use Antlr\\Antlr4\\Runtime\\Lexer;
 use Antlr\\Antlr4\\Runtime\\CharStream;
 use Antlr\\Antlr4\\Runtime\\PredictionContexts\\PredictionContextCache;
 use Antlr\\Antlr4\\Runtime\\RuleContext;
 use Antlr\\Antlr4\\Runtime\\Atn\\ATN;
 use Antlr\\Antlr4\\Runtime\\Dfa\\DFA;
 use Antlr\\Antlr4\\Runtime\\Vocabulary;
 use Antlr\\Antlr4\\Runtime\\RuntimeMetaData;
 use Antlr\\Antlr4\\Runtime\\VocabularyImpl;
<if(namedActions.definitions)><namedActions.definitions><endif>

 final class <lexer.name> extends <superClass; null="Lexer">
 {
  <if(lexer.tokens)>
  public const <lexer.tokens:{k | <k> = <lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
  <endif>

  <if(lexer.escapedChannels)>
  public const <lexer.escapedChannels:{c | <c> = <lexer.escapedChannels.(c)>};
```

```
 separator=", ", wrap, anchor>;
  <endif>

  <if(rest(lexer.escapedModeNames))>
  public const <rest(lexer.escapedModeNames):{m | <m>=<i>}; separator=", ", wrap, anchor>;
  <endif>

  /**
   * @var array\<string>
   */
  public const CHANNEL_NAMES = [
   'DEFAULT_TOKEN_CHANNEL', 'HIDDEN'<if (lexer.channelNames)>, <lexer.channelNames:{c| '<c>'};
separator=", ", wrap, anchor><endif>
  ];

  /**
   * @var array\<string>
   */
  public const MODE_NAMES = [
   <lexer.modes:{m| '<m>'}; separator=", ", wrap, anchor>
  ];

  /**
   * @var array\<string>
   */
  public const RULE_NAMES = [
   <lexer.ruleNames:{r | '<r>'}; separator=", ", wrap, anchor>
  ];

  <vocabulary(lexer.literalNames, lexer.symbolicNames)>

  <atn>
  protected static $atn;
  protected static $decisionToDFA;
  protected static $sharedContextCache;
<if(namedActions.members)>

  <namedActions.members>
<endif>

  public function __construct(CharStream $input)
  {
   parent::__construct($input);

   self::initialize();

   $this->interp
```

```
= new LexerATNSimulator($this, self::$atn, self::$decisionToDFA, self::$sharedContextCache);
 }

 private static function initialize(): void
 {
  if (self::$atn !== null) {
   return;
  }

  RuntimeMetaData::checkVersion('<lexerFile.ANTLRVersion>', RuntimeMetaData::VERSION);

  $atn = (new ATNDeserializer())->deserialize(self::SERIALIZED_ATN);

  $decisionToDFA = [];
  for ($i = 0, $count = $atn->getNumberOfDecisions(); $i \< $count; $i++) {
   $decisionToDFA[] = new DFA($atn->getDecisionState($i), $i);
  }

  self::$atn = $atn;
  self::$decisionToDFA = $decisionToDFA;
  self::$sharedContextCache = new PredictionContextCache();
 }

 public static function vocabulary(): Vocabulary
 {
  static $vocabulary;

  return $vocabulary = $vocabulary ?? new VocabularyImpl(self::LITERAL_NAMES, self::SYMBOLIC_NAMES);
 }

 public function getGrammarFileName(): string
 {
  return '<lexer.grammarFileName>';
 }

 public function getRuleNames(): array
 {
  return
self::RULE_NAMES;
 }

 public function getSerializedATN(): array
 {
  return self::SERIALIZED_ATN;
 }

 /**
  * @return array\<string>
```

```
  */
  public function getChannelNames(): array
  {
   return self::CHANNEL_NAMES;
  }

  /**
   * @return array\<string>
   */
  public function getModeNames(): array
  {
   return self::MODE_NAMES;
  }

  public function getATN(): ATN
  {
   return self::$atn;
  }

  public function getVocabulary(): Vocabulary
  {
   return self::vocabulary();
  }
  <dumpActions(lexer, "", actionFuncs, sempredFuncs)>
 }
}
>>

SerializedATN(model) ::= <<
private const SERIALIZED_ATN =
 [<model.serialized: {s | <s>}; separator=", ", wrap={<\n>    }>];
>>

/**
* Using a type to init value map, try to init a type; if not in table
* must be an object, default value is `null`.
*/
initValue(typeName) ::= <<
<phpTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".php"
```

Found in path(s):
* /opt/cola/permits/2224916300_1729024207.2615368/0/antlr4-4-13-2-jar/org/antlr/v4/tool/templates/codegen/PHP/PHP.stg
No license file was found, but licenses were detected in source scan.

/*
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(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
/*
This file contains the actual layout of the messages emitted by ANTLR.
The text itself is coming out of the languages/*stg files, according to the chosen locale.
This file contains the default format ANTLR uses.
*/

location(file, line, column) ::= "<file>(<line>,<column>)"

message(id, text) ::= "error <id> : <text>"

report(location, message, type) ::= "<location> : <type> <message.id> : <message.text>"

wantsSingleLineMessage() ::= "true"

Found in path(s):
* /opt/cola/permits/2224916300_1729024207.2615368/0/antlr4-4-13-2-
jar/org/antlr/v4/tool/templates/messages/formats/vs2005.stg
No license file was found, but licenses were detected in source scan.

/*
* [The "BSD license"]

```
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*  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
*  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

/** ANTLR tool checks output templates are compatible with tool code generation.
*  For now, a simple string match used on x.y of x.y.z scheme.
*  Must match Tool.VERSION during load to templates.
*
*  REQUIRED.
*/

pythonTypeInitMap ::= [
 "bool":"False",
 "int":"0",
 "float":"0.0",
 "str":"",
 default:"None" // anything other
 than a primitive type is an object
]

// args must be <object-model-object>, <fields-resulting-in-STs>
```

```
ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
# encoding: utf-8
from antlr4 import *
from io import StringIO
import sys
if sys.version_info[1] > 5:
 from typing import TextIO
else:
 from typing.io import TextIO

<namedActions.header>
<parser>

>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
if "." in __name__:
   from .<file.parserName> import <file.parserName>
else:
   from <file.parserName> import <file.parserName>
<header>

# This class defines a complete listener for a parse tree produced by <file.parserName>.
class <file.grammarName>Listener(ParseTreeListener):

   <file.listenerNames:{lname |
# Enter a parse tree produced by <file.parserName>#<lname>.
def enter<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
    pass

# Exit a parse tree produced by <file.parserName>#<lname>.
def exit<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
   pass

}; separator="\n">

del <file.parserName>
>>


VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
if "." in __name__:
   from .<file.parserName> import <file.parserName>
```

```
else:
   from <file.parserName> import <file.parserName>
<header>

# This class defines a complete generic visitor for a parse tree produced by <file.parserName>.

class <file.grammarName>Visitor(ParseTreeVisitor):

   <file.visitorNames:{lname |
# Visit a parse tree produced by <file.parserName>#<lname>.
def visit<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
   return self.visitChildren(ctx)

}; separator="\n">

del <file.parserName>
>>


fileHeader(grammarFileName, ANTLRVersion) ::= <<
# Generated from <grammarFileName> by ANTLR
 <ANTLRVersion>
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<if(superClass)>
if "." in __name__:
   from .<superClass> import <superClass>
else:
   from <superClass> import <superClass>

<endif>
<atn>

class <parser.name> ( <if(superClass)><superClass><else>Parser<endif> ):

   grammarFileName = "<parser.grammarFileName>"

   atn = ATNDeserializer().deserialize(serializedATN())

   decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

   sharedContextCache = PredictionContextCache()
```

```
  literalNames = [ <parser.literalNames:{t | <t>}; null="\"\<INVALID>\"", separator=", ", wrap, anchor> ]

  symbolicNames = [ <parser.symbolicNames:{t | <t>}; null="\"\<INVALID>\"", separator=", ", wrap, anchor> ]

  <if(parser.rules)>
  <parser.rules:{r | RULE_<r.name> = <r.index>}; separator="\n", wrap, anchor>
  <endif>

  ruleNames =
 [ <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ]

  EOF = <TokenLabelType()>.EOF
  <if(parser.tokens)>
  <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator="\n", wrap, anchor>
  <endif>

  <parser:(ctor)()>

  <namedActions.members>

  <funcs; separator="\n">


<if(sempredFuncs)>
  def sempred(self, localctx:RuleContext, ruleIndex:int, predIndex:int):
      if self._predicates == None:
          self._predicates = dict()
<parser.sempredFuncs.values:{f |
      self._predicates[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n        ">
      pred = self._predicates.get(ruleIndex, None)
      if pred is None:
          raise Exception("No predicate with index:" + str(ruleIndex))
      else:
          return pred(localctx, predIndex)

  <sempredFuncs.values; separator="\n">
<endif>



>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
def action(self, localctx:RuleContext, ruleIndex:int, actionIndex:int):
    if self._actions is None:
      actions = dict()
<recog.actionFuncs.values:{f|
```

```
        actions[<f.ruleIndex>] = self.<f.name>_action }; separator="\n">
        self._actions = actions
    action = self._actions.get(ruleIndex, None)
    if action is not None:
        action(localctx, actionIndex)
    else:
        raise Exception("No registered action for:" + str(ruleIndex))

<actionFuncs.values; separator="\n">

<endif>
<if(sempredFuncs)>
def sempred(self, localctx:RuleContext, ruleIndex:int, predIndex:int):
    if self._predicates is None:
        preds = dict()
<recog.sempredFuncs.values:{f|
        preds[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n">
        self._predicates = preds
    pred = self._predicates.get(ruleIndex, None)
    if pred is not None:
        return pred(localctx, predIndex)
    else:
        raise Exception("No registered predicate for:" + str(ruleIndex))

<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(p) ::= <<
def __init__(self,
 input:TokenStream, output:TextIO = sys.stdout):
    super().__init__(input, output)
    self.checkVersion("<file.ANTLRVersion>")
    self._interp = ParserATNSimulator(self, self.atn, self.decisionsToDFA, self.sharedContextCache)
    self._predicates = None

>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<

def <r.name>_action(self, localctx:<r.ctxType> , actionIndex:int):
<actions:{index|
<if(first(actions))>
    if actionIndex == <index>:
        <actions.(index)>
```

```
<elseif(rest(actions))>
  elif actionIndex == <index>:
      <actions.(index)>
<endif> }; separator="\n">
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
def <r.name>_sempred(self, localctx:<r.ctxType>, predIndex:int):
  <actions:{index|
<if(first(actions))>
   if predIndex == <index>:
      return <actions.(index)>
<elseif(rest(actions))>
  elif predIndex == <index>:
      return <actions.(index)>
<endif> }; separator="\n">

>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

<ruleCtx>

<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

def <currentRule.escapedName>(self<currentRule.args:{a | , <a.escapedName><if(a.type)>:<a.type><endif>}>):

  localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, self.state<currentRule.args:{a | ,
<a.escapedName>}>)
  self.enterRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>)
  <namedActions.init>
  <locals; separator="\n">
  try:
      <code>
      <postamble; separator="\n">
      <namedActions.after>
  <if(exceptions)>
  <exceptions; separator="\n">
  <else>
  except RecognitionException as re:
      localctx.exception = re
      self._errHandler.reportError(self,
 re)
      self._errHandler.recover(self, re)
```

```
  <endif>
  finally:
     <finallyAction>
     self.exitRule()
  return localctx

>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
 namedActions,finallyAction,postamble) ::=
<<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

def <currentRule.escapedName>(self, _p:int=0<if(currentRule.args)>, <args:{a | , <a>}><endif>):
  _parentctx = self._ctx
  _parentState = self.state
  localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, _parentState<args:{a | , <a.escapedName>}>)
  _prevctx = localctx
  _startState = <currentRule.startState>
  self.enterRecursionRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>, _p)
  <namedActions.init>
  <locals; separator="\n">
  try:
     <code>
     <postamble; separator="\n">
     <namedActions.after>
  except RecognitionException as re:
     localctx.exception = re

  self._errHandler.reportError(self, re)
     self._errHandler.recover(self, re)
  finally:
     <finallyAction>
     self.unrollRecursionContexts(_parentctx)
  return localctx

>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>localctx = <parser.name>.<currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(self, localctx)<endif>
self.enterOuterAlt(localctx, <currentOuterMostAltCodeBlock.alt.altNum>)
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
```

```
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
    <alt>
   pass}; separator="\nel">
else:
   <error>

>>

LL1OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
   <alt>
   pass}; separator="\nel">
else:
   pass
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
if <expr>:
   <alts; separator="\n">

<!else if ( !(<followExpr>) ) <error>!>
>>


LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
while <loopExpr>:
   <alts; separator="\n">
   self.state = <choice.loopBackStateNumber>
```

```
   self._errHandler.sync(self)
   <iteration>

>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.blockStartStateNumber> <! alt
 block decision !>
self._errHandler.sync(self)
<preamble; separator="\n">
while True:
   <alts; separator="\n">
   self.state = <choice.stateNumber> <! loopback/exit decision !>
   self._errHandler.sync(self)
   <iteration>
   if not (<loopExpr>):
       break

>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{alt |
if la_ == <i>:
   <alt>
   pass
}; separator="\nel">

>>

OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{alt |
if la_ == <i><if(!choice.ast.greedy)>+1<endif>:
   <alt>
}; separator="\nel">

>>

StarBlock(choice, alts, sync, iteration) ::= <<
```

```
self.state = <choice.stateNumber>
self._errHandler.sync(self)
_alt
 = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
   if _alt==1<if(!choice.ast.greedy)>+1<endif>:
       <iteration>
       <alts> <! should only be one !>
   self.state = <choice.loopBackStateNumber>
   self._errHandler.sync(self)
   _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

PlusBlock(choice, alts, error) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
_alt = 1<if(!choice.ast.greedy)>+1<endif>
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
   <alts:{alt|
if _alt == <i><if(!choice.ast.greedy)>+1<endif>:
   <alt>
}; separator="\nel">
   else:
       <error>
   self.state = <choice.loopBackStateNumber> <! loopback/exit decision !>
   self._errHandler.sync(self)
   _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

Sync(s)
 ::= "sync(<s.expecting.name>)"

ThrowNoViableAlt(t) ::= "raise NoViableAltException(self)"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.tokens)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" or ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> and ((1 \<\< <offsetShiftVar(s.varName,
```

```
bits.shift)>) & <bits.calculated>) != 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

offsetShiftType(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<parser.name>.<shiftAmount> - <offset>)<else><parser.name>.<shiftAmount><endif>
%>

bitsetInlineComparison(s, bits) ::= <%
<bits.tokens:{t
 | <s.varName>==<t.type>}; separator=" or ">
%>

cases(tokens) ::= <<
if token in [<tokens:{t | <t.type>}; separator=", ">]:
>>

InvokeRule(r, argExprsChunks) ::= <<
self.state = <r.stateNumber>
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif>self.<r.escapedName>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argE
xprsChunks>)
>>

MatchToken(m) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>self.match(<parser.name>.<m.name>)
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{l | <labelref(l)> = }>self._input.LT(1)<endif>
<capture>
<if(invert)>if <m.varName> \<= 0 or <expr><else>if not(<expr>)<endif>:
<if(m.labels)><m.labels:{l |     <labelref(l)> = }><else>    <endif>self._errHandler.recoverInline(self)
else:
```

```
    self._errHandler.reportMatch(self)
   self.consume()
>>

Wildcard(w) ::= <<
self.state = <w.stateNumber>
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>self.matchWildcard()
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
self.state = <p.stateNumber>
if not <chunks>:
   from antlr4.error.Errors import FailedPredicateException
   raise FailedPredicateException(self, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>,
<p.msg><endif>)
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
except <catchArg>:
   <catchAction>
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "skip()"
LexerMoreCommand()  ::= "more()"
LexerPopModeCommand() ::= "popMode()"

LexerTypeCommand(arg, grammar)      ::= "_type = <arg>"
LexerChannelCommand(arg, grammar)   ::= "_channel = <arg>"
LexerModeCommand(arg, grammar)      ::= "_mode = <arg>"
LexerPushModeCommand(arg,
 grammar)  ::= "pushMode(<arg>)"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "localctx.<a.escapedName>"
LocalRef(a) ::= "localctx.<a.escapedName>"
RetValueRef(a) ::= "localctx.<a.escapedName>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.escapedName>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.escapedName>"
```

```
LabelRef(t) ::= "<ctx(t)>.<t.escapedName>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.escapedName)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.escapedName> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(None if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.type)"
TokenPropertyRef_line(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "(0 if <ctx(t)>.<t.label> is None
 else <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "(0 if <ctx(t)>.<t.label> is None else int(<ctx(t)>.<t.label>.text))"

RulePropertyRef_start(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r)  ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r)  ::= "(None if <ctx(r)>.<r.label> is None else
self._input.getText(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop))"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "self"

ThisRulePropertyRef_start(r) ::= "localctx.start"
ThisRulePropertyRef_stop(r)  ::= "localctx.stop"
ThisRulePropertyRef_text(r)  ::= "self._input.getText(localctx.start, self._input.LT(-1))"
ThisRulePropertyRef_ctx(r)  ::= "localctx"
ThisRulePropertyRef_parser(r)
 ::= "self"

NonLocalAttrRef(s)     ::= "self.getInvokingContext(<s.ruleIndex>).<s.escapedName>"
SetNonLocalAttr(s, rhsChunks)  ::= "self.getInvokingContext(<s.ruleIndex>).<s.escapedName> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.append(<labelref(a.label)>)"

TokenDecl(t) ::= "self.<t.escapedName> = None # <TokenLabelType()>"
TokenTypeDecl(t) ::= "self.<t.escapedName> = 0 # <TokenLabelType()> type"
TokenListDecl(t) ::= "self.<t.escapedName> = list() # of <TokenLabelType()>s"
RuleContextDecl(r) ::= "self.<r.escapedName> = None # <r.ctxName>"
RuleContextListDecl(rdecl) ::= "self.<rdecl.escapedName> = list() # of <rdecl.ctxName>s"

ContextTokenGetterDecl(t)      ::= <<
def <t.escapedName>(self):
   return self.getToken(<parser.name>.<t.name>, 0)
>>

// should never be called
ContextTokenListGetterDecl(t)  ::= <<
```

```
def <t.name>_list(self):
   return self.getTokens(<parser.name>.<t.name>)
>>

ContextTokenListIndexedGetterDecl(t)  ::= <<
def <t.escapedName>(self,
 i:int=None):
   if i is None:
       return self.getTokens(<parser.name>.<t.name>)
   else:
       return self.getToken(<parser.name>.<t.name>, i)
>>

ContextRuleGetterDecl(r)       ::= <<
def <r.escapedName>(self):
   return self.getTypedRuleContext(<parser.name>.<r.ctxName>,0)

>>

// should never be called
ContextRuleListGetterDecl(r)   ::= <<
def <r.name>_list(self):
   return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)

>>

ContextRuleListIndexedGetterDecl(r)   ::= <<
def <r.escapedName>(self, i:int=None):
   if i is None:
       return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
   else:
       return self.getTypedRuleContext(<parser.name>.<r.ctxName>,i)

>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
*  r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName)   ::= "_<ruleName>"
ImplicitSetLabel(id)
  ::= "_tset<id>"
ListLabelName(label)    ::= "<label>"
```

```
CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = self._input.LA(1)"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,signatures) ::= <<
class <struct.escapedName>(<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif>):
  __slots__ = 'parser'

  def __init__(self, parser, parent:ParserRuleContext=None, invokingState:int=-1<struct.ctorAttrs:{a | ,
<a.escapedName><if(a.type)>:<a.type><endif>=None}>):
      super().__init__(parent, invokingState)
      self.parser = parser
      <attrs:{a | <a>}; separator="\n">
      <struct.ctorAttrs:{a | self.<a.escapedName> = <a.escapedName>}; separator="\n">

  <getters:{g | <g>}; separator="\n\n">

  def getRuleIndex(self):
      return <parser.name>.RULE_<struct.derivedFromName>

<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
   def copyFrom(self, ctx:ParserRuleContext):
      super().copyFrom(ctx)
      <struct.attrs:{a | self.<a.escapedName> = ctx.<a.escapedName>}; separator="\n">

<endif>
  <dispatchMethods; separator="\n">
  <extensionMembers; separator="\n">

>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.escapedName>(<currentRule.name; format="cap">Context):

  def __init__(self, parser, ctx:ParserRuleContext): # actually a <parser.name>.<currentRule.name;
format="cap">Context
      super().__init__(parser)
      <attrs:{a | <a>}; separator="\n">
      self.copyFrom(ctx)

  <getters:{g | <g>}; separator="\n">

  <dispatchMethods; separator="\n">

>>

ListenerDispatchMethod(method) ::= <<
def <if(method.isEnter)>enter<else>exit<endif>Rule(self, listener:ParseTreeListener):
  if hasattr( listener, "<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">" ):
```

```
    listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName;
 format="cap">(self)

>>

VisitorDispatchMethod(method) ::= <<
def accept(self, visitor:ParseTreeVisitor):
  if hasattr( visitor, "visit<struct.derivedFromName; format="cap">" ):
    return visitor.visit<struct.derivedFromName; format="cap">(self)
  else:
    return visitor.visitChildren(self)

>>

AttributeDecl(d) ::= "self.<d.escapedName> = <if(d.initValue)><d.initValue><else>None<endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>localctx.<endif><x.escapedName>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "localctx"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)  ::= "self.precpred(self._ctx, <opPrec>)"
recRuleSetReturnAction(src,name)   ::= "$<name>=$<src>.<name>"
recRuleSetStopToken()                ::= "self._ctx.stop = self._input.LT(-1)"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
localctx =
 <parser.name>.<ctxName>Context(self, _parentctx, _parentState)
<if(label)>
<if(isListLabel)>
localctx.<label>.append(_prevctx)
<else>
localctx.<label> = _prevctx
<endif>
<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
localctx = <parser.name>.<currentAltLabel; format="cap">Context(self, <parser.name>.<ruleName;
format="cap">Context(self, _parentctx, _parentState))
<if(label)>
<if(isListLabel)>
localctx.<label>.append(_prevctx)
<else>
localctx.<label> = _prevctx
```

```
<endif>
<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

recRuleReplaceContext(ctxName) ::= <<
localctx = <parser.name>.<ctxName>Context(self, localctx)
self._ctx = localctx
_prevctx = localctx
>>

recRuleSetPrevCtx() ::= <<
if self._parseListeners is not None:
   self.triggerExitRuleEvent()
_prevctx = localctx
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName,
 lexerFile.ANTLRVersion)>
from antlr4 import *
from io import StringIO
import sys
if sys.version_info[1] > 5:
   from typing import TextIO
else:
   from typing.io import TextIO

<namedActions.header>

<lexer>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<if(superClass)>
if "." in __name__:
   from .<superClass> import <superClass>
else:
   from <superClass> import <superClass>

<endif>
<atn>

class <lexer.name>(<if(superClass)><superClass><else>Lexer<endif>):

   atn = ATNDeserializer().deserialize(serializedATN())
```

```
   decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

<if(lexer.escapedChannels)>
   <lexer.escapedChannels:{c| <c> = <lexer.escapedChannels.(c)>}; separator="\n">

<endif>
<if(rest(lexer.escapedModeNames))>
   <rest(lexer.escapedModeNames):{m| <m> = <i>}; separator="\n">

<endif>
   <if(lexer.tokens)>
   <lexer.tokens:{k | <k> = <lexer.tokens.(k)>}; separator="\n", wrap, anchor>
   <endif>

    channelNames = [ u"DEFAULT_TOKEN_CHANNEL", u"HIDDEN"<if (lexer.channelNames)>,
<lexer.channelNames:{c| u"<c>"}; separator=", ", wrap, anchor><endif> ]

   modeNames = [ <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor> ]

   literalNames = [ "\<INVALID>",
         <lexer.literalNames:{t | <t>}; separator=", ", wrap, anchor> ]

   symbolicNames = [ "\<INVALID>",
         <lexer.symbolicNames:{t | <t>}; separator=", ", wrap, anchor> ]

   ruleNames = [ <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ]

   grammarFileName = "<lexer.grammarFileName>"

   def __init__(self, input=None, output:TextIO = sys.stdout):
      super().__init__(input, output)
      self.checkVersion("<lexerFile.ANTLRVersion>")
      self._interp = LexerATNSimulator(self, self.atn, self.decisionsToDFA, PredictionContextCache())
      self._actions = None
      self._predicates = None

   <namedActions.members>

   <dumpActions(lexer, "", actionFuncs, sempredFuncs)>

>>

SerializedATN(model)
 ::= <<
def serializedATN():
   return [
      <model.serialized: {s | <s>}; separator=",", wrap>
   ]
```

```
>>

/** Using a type to init value map, try to init a type; if not in table
*  must be an object, default value is "null".
*/
initValue(typeName) ::= <<
<pythonTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".py"
```

Found in path(s):
* /opt/cola/permits/2224916300_1729024207.2615368/0/antlr4-4-13-2-jar/org/antlr/v4/tool/templates/codegen/Python3/Python3.stg
No license file was found, but licenses were detected in source scan.


```
/*
* [The "BSD license"]
*  Copyright (c) 2012-2016 Terence Parr
*  Copyright (c) 2012-2016 Sam Harwell
*  Copyright (c) 2014 Eric Vergnaud
*  All rights reserved.
*
*  Redistribution and use in source and binary forms, with or without
*  modification, are permitted provided that the following conditions
*  are met:
*
*  1. Redistributions of source code must retain the above copyright
*     notice, this list of conditions and the following disclaimer.
*  2. Redistributions in binary form must reproduce the above copyright
*     notice, this list of conditions and the following disclaimer in the
*     documentation and/or other materials provided with the distribution.
*  3. The name of the author may not be used to endorse or promote products
*     derived from this software without specific prior written permission.
*
*  THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR
*  IMPLIED
 WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
*  OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
*  IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
*  INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
*  NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
*  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
*  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
*  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
```

```
/** ANTLR tool checks output templates are compatible with tool code generation.
*  For now, a simple string match used on x.y of x.y.z scheme.
*  Must match Tool.VERSION during load to templates.
*
*  REQUIRED.
*/

javascriptTypeInitMap ::= [
 "bool":"false",
 "int":"0",
 "float":"0.0",
 "str":"",
 default:"{}" // anything
 other than a primitive type is an object
]

// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
import antlr4 from 'antlr4';
<if(file.genListener)>
import <file.grammarName>Listener from './<file.grammarName>Listener.js';
<endif>
<if(file.genVisitor)>
import <file.grammarName>Visitor from './<file.grammarName>Visitor.js';
<endif>

<namedActions.header>
<parser>
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
import antlr4 from 'antlr4';

// This class defines a complete listener for a parse tree produced by <file.parserName>.
export default class <file.grammarName>Listener extends antlr4.tree.ParseTreeListener {

<file.listenerNames:{lname |
 // Enter a parse tree produced by <file.parserName>#<lname>.
 enter<lname; format="cap">(ctx) {
 \}

 // Exit a parse tree produced by <file.parserName>#<lname>.
 exit<lname;
 format="cap">(ctx) {
 \}
```

```
}; separator="\n">

}
>>


VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
import antlr4 from 'antlr4';

// This class defines a complete generic visitor for a parse tree produced by <file.parserName>.

export default class <file.grammarName>Visitor extends antlr4.tree.ParseTreeVisitor {

<file.visitorNames:{lname |
 // Visit a parse tree produced by <file.parserName>#<lname>.
 visit<lname; format="cap">(ctx) {
   return this.visitChildren(ctx);
 \}

}; separator="\n">

}
>>


fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName> by ANTLR <ANTLRVersion>
// jshint ignore: start
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<if(superClass)>
import <superClass> from './<superClass>.js';
<endif>

<atn>

const atn = new antlr4.atn.ATNDeserializer().deserialize(serializedATN);

const decisionsToDFA = atn.decisionToState.map( (ds, index) => new antlr4.dfa.DFA(ds,
 index) );

const sharedContextCache = new antlr4.atn.PredictionContextCache();

export default class <parser.name> extends <superClass; null="antlr4.Parser"> {
```

```
  static grammarFileName = "<parser.grammarFileName>";
  static literalNames = [ <parser.literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];
  static symbolicNames = [ <parser.symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];
  static ruleNames = [ <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ];

  constructor(input) {
     super(input);
     this._interp = new antlr4.atn.ParserATNSimulator(this, atn, decisionsToDFA, sharedContextCache);
     this.ruleNames = <parser.name>.ruleNames;
     this.literalNames = <parser.name>.literalNames;
     this.symbolicNames = <parser.name>.symbolicNames;
     <namedActions.members>
  }

  <if(sempredFuncs)>
  sempred(localctx, ruleIndex, predIndex) {
   switch(ruleIndex) {
   <parser.sempredFuncs.values:{f
| case <f.ruleIndex>:
    return this.<f.name>_sempred(localctx, predIndex);}; separator="\n">
     default:
         throw "No predicate with index:" + ruleIndex;
    }
  }

  <sempredFuncs.values; separator="\n">
  <endif>

 <funcs; separator="\n">

}

<parser.name>.EOF = antlr4.Token.EOF;
<if(parser.tokens)>
<parser.tokens:{k | <parser.name>.<k> = <parser.tokens.(k)>;}; separator="\n", wrap, anchor>
<endif>

<if(parser.rules)>
<parser.rules:{r | <parser.name>.RULE_<r.name> = <r.index>;}; separator="\n", wrap, anchor>
<endif>

<funcs:{f | <ruleContexts(f)>}; separator="\n">

<! Define fields of this parser to export the context classes !>
<parser.funcs:{f | <parser.name>.<f.ctxType> = <f.ctxType>; }; separator="\n">

>>
```

```
ruleContexts(currentRule) ::= <<
<currentRule.ruleCtx>

<currentRule.altLabelCtxs:{l | <currentRule.altLabelCtxs.(l)>}; separator="\n">
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
<lexer.name>.prototype.action
 = function(localctx, ruleIndex, actionIndex) {
 switch (ruleIndex) {
 <recog.actionFuncs.values:{f|
case <f.ruleIndex>:
 this.<f.name>_action(localctx, actionIndex);
 break;}; separator="\n">
 default:
  throw "No registered action for:" + ruleIndex;
 }
};

<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
<lexer.name>.prototype.sempred = function(localctx, ruleIndex, predIndex) {
 switch (ruleIndex) {
  <recog.sempredFuncs.values:{f| case <f.ruleIndex>:
 return this.<f.name>_sempred(localctx, predIndex);}; separator="\n">
    default:
     throw "No registered predicate for:" + ruleIndex;
   }
};

<sempredFuncs.values; separator="\n">
<endif>
>>


/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<

<lexer.name>.prototype.<r.name>_action = function(localctx , actionIndex) {
 switch (actionIndex) {
 <actions:{index|
case <index>:
 <actions.(index)>
 break;};
```

```
 separator="\n">
 default:
  throw "No registered action for:" + actionIndex;
 }
};
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
<if (r.factory.g.lexer)><lexer.name>.prototype.<r.name>_sempred =
function<else><r.name>_sempred<endif>(localctx, predIndex) {
 switch(predIndex) {
  <actions:{index| case <index>:
 return <actions.(index)>;}; separator="\n">
  default:
   throw "No predicate with index:" + predIndex;
 }
};

>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<


<currentRule.escapedName>(<currentRule.args:{a | <a.escapedName>}; separator=", ">) {
   let localctx = new <currentRule.ctxType>(this, this._ctx, this.state<currentRule.args:{a | , <a.escapedName>}>);
   this.enterRule(localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>);
    <namedActions.init>
   <locals; separator="\n">
   try {
       <code>
       <postamble; separator="\n">
       <namedActions.after>
   }<if(exceptions)>
   <exceptions; separator="\n">
   <else> catch (re) {
    if(re instanceof antlr4.error.RecognitionException) {
         localctx.exception = re;
         this._errHandler.reportError(this, re);
         this._errHandler.recover(this, re);
     } else {
      throw re;
     }
   }<endif> finally {
       <finallyAction>
```

```
      this.exitRule();
   }
   return localctx;
}

>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
 namedActions,finally Action,postamble) ::=
<<

<currentRule.escapedName>(_p<if(currentRule.args)>, <args:{a | , <a>}><endif>) {
 if(_p===undefined) {
     _p = 0;
 }
   const _parentctx = this._ctx;
   const _parentState = this.state;
   let localctx = new <currentRule.ctxType>(this, this._ctx, _parentState<args:{a | , <a.escapedName>}>);
   let _prevctx
 = localctx;
   const _startState = <currentRule.startState>;
   this.enterRecursionRule(localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>, _p);
   <namedActions.init>
   <locals; separator="\n">
   try {
      <code>
      <postamble; separator="\n">
      <namedActions.after>
   } catch( error) {
      if(error instanceof antlr4.error.RecognitionException) {
        localctx.exception = error;
        this._errHandler.reportError(this, error);
        this._errHandler.recover(this, error);
     } else {
     throw error;
     }
   } finally {
      <finallyAction>
      this.unrollRecursionContexts(_parentctx)
   }
   return localctx;
}

>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>localctx = new <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(this, localctx);<endif>
```

```
this.enterOuterAlt(localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock,
 ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = this._input.LT(1);<endif>
<preamble; separator="\n">
switch(this._input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
   <alt>
   break;}; separator="\n">
default:
   <error>
}
>>

LL1OptionalBlock(choice, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
switch (this._input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
 <alt>
 break;}; separator="\n">
default:
 break;
}
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<preamble; separator="\n">
if(<expr>)
 {
   <alts; separator="\n">
}
<!else if ( !(<followExpr>) ) <error>!>
>>
```

```
LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<preamble; separator="\n">
while(<loopExpr>) {
   <alts; separator="\n">
   this.state = <choice.loopBackStateNumber>;
   this._errHandler.sync(this);
   <iteration>
}
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
this.state = <choice.blockStartStateNumber>; <! alt block decision !>
this._errHandler.sync(this);
<preamble; separator="\n">
do {
   <alts; separator="\n">
   this.state = <choice.stateNumber>; <! loopback/exit decision !>
   this._errHandler.sync(this);
   <iteration>
} while(<loopExpr>);
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
var
 la_ = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
switch(la_) {
<alts:{alt |
case <i>:
   <alt>
   break;
}; separator="\n">
}
>>

OptionalBlock(choice, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
var la_ = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
<alts:{alt |
if(la_===<i><if(!choice.ast.greedy)>+1<endif>) {
```

```
   <alt>
}; separator="\n} else ">
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
var _alt = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx)
while(_alt!=<choice.exitAlt> && _alt!=antlr4.atn.ATN.INVALID_ALT_NUMBER) {
   if(_alt===1<if(!choice.ast.greedy)>+1<endif>) {
       <iteration>
       <alts> <! should only be one !>
   }
   this.state = <choice.loopBackStateNumber>;
   this._errHandler.sync(this);
   _alt = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
}

>>

PlusBlock(choice,
 alts, error) ::= <<
this.state = <choice.blockStartStateNumber>; <! alt block decision !>
this._errHandler.sync(this);
var _alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
 switch (_alt) {
 <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n">
 default:
  <error>
 }
 this.state = <choice.loopBackStateNumber>; <! loopback/exit decision !>
 this._errHandler.sync(this);
 _alt = this._interp.adaptivePredict(this._input,<choice.decision>, this._ctx);
} while ( _alt!=<choice.exitAlt> && _alt!=antlr4.atn.ATN.INVALID_ALT_NUMBER );
>>

Sync(s) ::= "sync(<s.expecting.name>)"

ThrowNoViableAlt(t) ::= "throw new antlr4.error.NoViableAltException(this);"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.tokens)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
```

```
>>

// Javascript language spec - shift operators are 32 bits long max
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>)
 & ~0x1f) === 0
>>

bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> && ((1 \<\< <offsetShiftVar(s.varName,
bits.shift)>) & <bits.calculated>) !== 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

offsetShiftType(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<parser.name>.<shiftAmount> - <offset>)<else><parser.name>.<shiftAmount><endif>
%>

bitsetInlineComparison(s, bits) ::= <%
<bits.tokens:{t | <s.varName>===<t.type>}; separator=" || ">
%>

cases(tokens) ::= <<
<tokens:{t | case <t.type>:}; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
this.state = <r.stateNumber>;
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif>this.<r.escapedName>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argE
xprsChunks>);
>>

MatchToken(m) ::= <<
this.state = <m.stateNumber>;
<if(m.labels)><m.labels:{l
 | <labelref(l)> = }><endif>this.match(<parser.name>.<m.name>);
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"
```

```
MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
this.state = <m.stateNumber>;
<if(m.labels)><m.labels:{l | <labelref(l)> = }>this._input.LT(1);<endif>
<capture>
<if(invert)>if(<m.varName>\<=0 || <expr>)<else>if(!(<expr>))<endif> {
   <if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>this._errHandler.recoverInline(this);
}
else {
 this._errHandler.reportMatch(this);
   this.consume();
}
>>

Wildcard(w) ::= <<
this.state = <w.stateNumber>;
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>this.matchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
this.state = <p.stateNumber>;
if (!( <chunks>)) {
   throw new antlr4.error.FailedPredicateException(this,
 <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>, <p.msg><endif>);
}
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
 <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "this.skip();"
LexerMoreCommand()  ::= "this.more();"
LexerPopModeCommand() ::= "this.popMode();"
LexerTypeCommand(arg, grammar)      ::= "this._type = <arg>;"
LexerChannelCommand(arg, grammar)   ::= "this._channel = <arg>;"
```

```
LexerModeCommand(arg, grammar)      ::= "this._mode = <arg>;"
LexerPushModeCommand(arg, grammar)  ::= "this.pushMode(<arg>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "localctx.<a.escapedName>"
LocalRef(a) ::= "localctx.<a.escapedName>"
RetValueRef(a) ::= "localctx.<a.escapedName>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.escapedName>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.escapedName>"
LabelRef(t) ::= "<ctx(t)>.<t.escapedName>"
ListLabelRef(t) ::=
 "<ctx(t)>.<ListLabelName(t.escapedName)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.escapedName> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<t.label> == null ? null : <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<t.label> == null ? 0 : <ctx(t)>.<t.label>.type)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<t.label> == null ? 0 : <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "(<ctx(t)>.<t.label> == null ? 0 : <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(<ctx(t)>.<t.label> == null ? 0 : <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "(<ctx(t)>.<t.label> == null ? 0 : <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "(<ctx(t)>.<t.label> == null ? 0 : parseInt(<ctx(t)>.<t.label>.text))"

RulePropertyRef_start(r) ::= "(<ctx(r)>.<r.label> == null ? null : <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r)
 ::= "(<ctx(r)>.<r.label> == null ? null : <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r)  ::= "(<ctx(r)>.<r.label> == null ? null : this._input.getText(new
antlr4.Interval(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop)))"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "this"

ThisRulePropertyRef_start(r) ::= "localctx.start"
ThisRulePropertyRef_stop(r)  ::= "localctx.stop"
ThisRulePropertyRef_text(r)  ::= "this._input.getText(new antlr4.Interval(localctx.start, this._input.LT(-1)))"
ThisRulePropertyRef_ctx(r)  ::= "localctx"
ThisRulePropertyRef_parser(r)  ::= "this"

NonLocalAttrRef(s)     ::= "this.getInvokingContext(<s.ruleIndex>).<s.escapedName>"
SetNonLocalAttr(s, rhsChunks)  ::= "this.getInvokingContext(<s.ruleIndex>).<s.escapedName> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.push(<labelref(a.label)>);"

TokenDecl(t) ::= "this.<t.escapedName> = null;"
TokenTypeDecl(t) ::= "var <t.escapedName> = 0;"
```

```
TokenListDecl(t)
 ::= "this.<t.escapedName> = [];"
RuleContextDecl(r) ::= "this.<r.escapedName> = null;"
RuleContextListDecl(rdecl) ::= "this.<rdecl.escapedName> = [];"

ContextTokenGetterDecl(t)      ::= <<
<t.escapedName>() {
   return this.getToken(<parser.name>.<t.name>, 0);
};
>>

// should never be called
ContextTokenListGetterDecl(t)  ::= <<
<t.escapedName>_list() {
   return this.getTokens(<parser.name>.<t.name>);
}
>>

ContextTokenListIndexedGetterDecl(t)  ::= <<
<t.escapedName> = function(i) {
 if(i===undefined) {
  i = null;
 }
   if(i===null) {
       return this.getTokens(<parser.name>.<t.name>);
   } else {
       return this.getToken(<parser.name>.<t.name>, i);
   }
};

>>

ContextRuleGetterDecl(r)       ::= <<
<r.escapedName>() {
   return this.getTypedRuleContext(<r.ctxName>,0);
};
>>

// should never be called
ContextRuleListGetterDecl(r)   ::= <<
<r.escapedName>_list() {
   return this.getTypedRuleContexts(<parser.name>.<r.ctxName>);
}
>>

ContextRuleListIndexedGetterDecl(r)
   ::= <<
<r.escapedName> = function(i) {
```

```
  if(i===undefined) {
      i = null;
  }
  if(i===null) {
      return this.getTypedRuleContexts(<r.ctxName>);
  } else {
      return this.getTypedRuleContext(<r.ctxName>,i);
  }
};
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
* r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName)   ::= "_<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)    ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = this._input.LA(1);"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,signatures) ::= <<
class <struct.escapedName> extends
<if(contextSuperClass)><contextSuperClass><else>antlr4.ParserRuleContext<endif> {

  constructor(parser, parent, invokingState<struct.ctorAttrs:{a
| , <a.escapedName>}>) {
      if(parent===undefined) {
          parent = null;
      }
      if(invokingState===undefined || invokingState===null) {
          invokingState = -1;
      }
      super(parent, invokingState);
      this.parser = parser;
      this.ruleIndex = <parser.name>.RULE_<struct.derivedFromName>;
      <attrs:{a | <a>}; separator="\n">
      <struct.ctorAttrs:{a | this.<a.escapedName> = <a.escapedName> || null;}; separator="\n">
  }

 <getters:{g | <g>}; separator="\n\n">

 <if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
```

```
 copyFrom(ctx) {
  super.copyFrom(ctx);
  <struct.attrs:{a | this.<a.escapedName> = ctx.<a.escapedName>;}; separator="\n">
 }
 <endif>
 <dispatchMethods; separator="\n">
 <extensionMembers; separator="\n">

}

>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.escapedName> extends <struct.parentRule; format="cap">Context {

   constructor(parser, ctx) {

      super(parser);
       <attrs:{a | <a>;}; separator="\n">
       super.copyFrom(ctx);
   }

 <getters:{g | <g>}; separator="\n\n">

 <dispatchMethods; separator="\n">

}

<! Define fields of this parser to export this struct/context class !>
<parser.name>.<struct.name> = <struct.escapedName>;

>>

ListenerDispatchMethod(method) ::= <<
<if(method.isEnter)>enter<else>exit<endif>Rule(listener) {
   if(listener instanceof <parser.grammarName>Listener ) {
       listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(this);
 }
}

>>

VisitorDispatchMethod(method) ::= <<
accept(visitor) {
   if ( visitor instanceof <parser.grammarName>Visitor ) {
       return visitor.visit<struct.derivedFromName; format="cap">(this);
   } else {
       return visitor.visitChildren(this);
```

```
   }
}

>>

AttributeDecl(d) ::= "this.<d.escapedName> = <if(d.initValue)><d.initValue><else>null<endif>"

/** If we don't know location of label def x, use this template */
labelref(x)
 ::= "<if(!x.isLocal)>localctx.<endif><x.escapedName>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "localctx"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)  ::= "this.precpred(this._ctx, <opPrec>)"
recRuleSetReturnAction(src,name)   ::= "$<name>=$<src>.<name>"
recRuleSetStopToken()                ::= "this._ctx.stop = this._input.LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
localctx = new <ctxName>Context(this, _parentctx, _parentState);
<if(label)>
<if(isListLabel)>
localctx.<label>.push(_prevctx);
<else>
localctx.<label> = _prevctx;
<endif>
<endif>
this.pushNewRecursionContext(localctx, _startState, <parser.name>.RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
localctx = new <currentAltLabel; format="cap">Context(this, new <ruleName; format="cap">Context(this,
_parentctx, _parentState));
<if(label)>
<if(isListLabel)>
localctx.<label>.push(_prevctx);
<else>
localctx.<label>
 = _prevctx;
<endif>
<endif>
this.pushNewRecursionContext(localctx, _startState, <parser.name>.RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName) ::= <<
localctx = new <ctxName>Context(this, localctx);
this._ctx = localctx;
```

```
_prevctx = localctx;
>>

recRuleSetPrevCtx() ::= <<
if(this._parseListeners!==null) {
   this.triggerExitRuleEvent();
}
_prevctx = localctx;
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
import antlr4 from 'antlr4';

<namedActions.header>

<lexer>

>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<if(superClass)>
import <superClass> from './<superClass>.js';

<endif>
<atn>

const atn = new antlr4.atn.ATNDeserializer().deserialize(serializedATN);

const decisionsToDFA = atn.decisionToState.map( (ds, index) => new antlr4.dfa.DFA(ds, index) );

export default class <lexer.name> extends <if(superClass)><superClass><else>antlr4.Lexer<endif>
 {

   static grammarFileName = "<lexer.grammarFileName>";
   static channelNames = [ "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channelNames)>,
<lexer.channelNames:{c| "<c>"}; separator=", ", wrap, anchor><endif> ];
 static modeNames = [ <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor> ];
 static literalNames = [ <lexer.literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];
 static symbolicNames = [ <lexer.symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];
 static ruleNames = [ <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ];

   constructor(input) {
       super(input)
       this._interp = new antlr4.atn.LexerATNSimulator(this, atn, decisionsToDFA, new
antlr4.atn.PredictionContextCache());
       <namedActions.members>
```

```
   }
}

<lexer.name>.EOF = antlr4.Token.EOF;
<if(lexer.tokens)>
<lexer.tokens:{k | <lexer.name>.<k> = <lexer.tokens.(k)>;}; separator="\n", wrap, anchor>
<endif>

<if(lexer.escapedChannels)>
<lexer.escapedChannels:{c|
 <lexer.name>.<c> = <lexer.escapedChannels.(c)>;}; separator="\n">

<endif>
<if(rest(lexer.escapedModeNames))>
<rest(lexer.escapedModeNames):{m| <lexer.name>.<m> = <i>;}; separator="\n">

<endif>

<dumpActions(lexer, "", actionFuncs, sempredFuncs)>


>>

SerializedATN(model) ::= <<
const serializedATN = [<model.serialized: {s | <s>}; separator=",", wrap>];

>>

/** Using a type to init value map, try to init a type; if not in table
* must be an object, default value is "null".
*/
initValue(typeName) ::= <<
<javacriptTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".js"
```

Found in path(s):
* /opt/cola/permits/2224916300_1729024207.2615368/0/antlr4-4-13-2-jar/org/antlr/v4/tool/templates/codegen/JavaScript/JavaScript.stg
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*
```

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*/

/** How to generate rules derived from left-recursive rules.
*  These rely on recRuleAltPredicate(),
*  recRuleArg(), recRuleSetResultAction(), recRuleSetReturnAction()
*  templates in main language.stg
*/
group LeftRecursiveRules;

recRule(ruleName, argName, primaryAlts, opAlts, setResultAction,
      userRetvals, leftRecursiveRuleRefLabels) ::=
<<
<ruleName><if(userRetvals)>
 returns [<userRetvals>]<endif>
  :   ( {} <primaryAlts:{alt | <alt.altText> }; separator="\n        | ">
      )
      (
        <opAlts; separator="\n        | ">
      )*
  ;
>>

recRuleAlt(alt, precOption, opPrec, pred) ::= <<
{<pred>}?\<<precOption>=<opPrec>\> <alt.altText>
>>
```

Found in path(s):
* /opt/cola/permits/2224916300_1729024207.2615368/0/antlr4-4-13-2-jar/org/antlr/v4/tool/templates/LeftRecursiveRules.stg
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*/
/*
This file contains the actual layout of the messages emitted by ANTLR.
The text itself is coming out of the languages/*stg files, according to the chosen locale.
This file contains the format that mimicks GCC output.
*/

location(file, line, column) ::= "<file>:<line>:<column>:"

message(id, text) ::= "<text> [error <id>]"

report(location, message, type) ::= "<location> <type>: <message>"

wantsSingleLineMessage() ::= "true"
```

Found in path(s):

* /opt/cola/permits/2224916300_1729024207.2615368/0/antlr4-4-13-2-jar/org/antlr/v4/tool/templates/messages/formats/gnu.stg
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```
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 ~ can be found in the LICENSE.txt file in the project root.
 -->
```

Found in path(s):
* /opt/cola/permits/2224916300_1729024207.2615368/0/antlr4-4-13-2-jar/META-INF/maven/org.antlr/antlr4/pom.xml
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*/
/*
This file contains the actual layout of the messages emitted by ANTLR.
This file contains the default format ANTLR uses.
*/

location(file, line, column) ::= "<file>:<line>:<column>:"
```

```
message(id, text) ::= "(<id>) <text>"

report(location, message, type) ::= "<type>(<message.id>): <location> <message.text>"

wantsSingleLineMessage() ::= "false"
```

Found in path(s):
* /opt/cola/permits/2224916300_1729024207.2615368/0/antlr4-4-13-2-jar/org/antlr/v4/tool/templates/messages/formats/antlr.stg
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*/

SwiftTypeInitMap ::= [
 "Int":"0",
 "Int64":"0",
 "Float":"0.0",
```

```
 "Double":"0.0",
 "Bool":"false",
 default:"nil" // anything other than a primitive type is an object
]
SwiftTypeMap ::= [
 "int":"Int",
 "float":"Float",
 "long":"Int64",
 "double":"Double",
 "bool":"Bool",
 "boolean":"Bool",
 default : key
]
// args must be <object-model-object>,
 <fields-resulting-in-STs>

accessLevelOpenOK(obj) ::= "<obj.accessLevel; null=\"open\">"
accessLevelNotOpen(obj) ::= "<obj.accessLevel; null=\"public\">"

ParserFile(file, parser, namedActions,contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<namedActions.header>
import Antlr4

<parser>
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>
import Antlr4

/**
* This interface defines a complete listener for a parse tree produced by
* {@link <file.parserName>}.
*/
<accessLevelNotOpen(file)> protocol <file.grammarName>Listener: ParseTreeListener {
 <file.listenerNames:{lname |
/**
<if(file.listenerLabelRuleNames.(lname))>
* Enter a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.listenerLabelRuleNames.(lname)>\}.
```

```
<else>
 * Enter a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
- Parameters:
  - ctx: the parse tree
*/
func enter<lname; format="cap">(_ ctx: <file.parserName>.<lname; format="cap">Context)
/**
<if(file.listenerLabelRuleNames.(lname))>
* Exit a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.listenerLabelRuleNames.(lname)>\}.
<else>
* Exit a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
- Parameters:
  - ctx: the parse tree
*/
func exit<lname; format="cap">(_ ctx: <file.parserName>.<lname; format="cap">Context)}; separator="\n">
}
>>

BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>

import Antlr4


/**
* This class provides an empty implementation of {@link <file.grammarName>Listener},
* which can be extended to create a listener which only needs to handle
 a subset
* of the available methods.
*/
<accessLevelOpenOK(file)> class <file.grammarName>BaseListener: <file.grammarName>Listener {
    <accessLevelNotOpen(file)> init() { \}
 <file.listenerNames:{lname |

/**
* {@inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
<accessLevelOpenOK(file)> func enter<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) { \}
```

```
/**
* {@inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
<accessLevelOpenOK(file)> func exit<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) { \}}; separator="\n">

 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 <accessLevelOpenOK(file)> func enterEveryRule(_ ctx: ParserRuleContext) throws { }
 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 <accessLevelOpenOK(file)> func exitEveryRule(_ ctx: ParserRuleContext) throws { }
 /**
  * {@inheritDoc\}
  *

 * \<p>The default implementation does nothing.\</p>
  */
 <accessLevelOpenOK(file)> func visitTerminal(_ node: TerminalNode) { }
 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 <accessLevelOpenOK(file)> func visitErrorNode(_ node: ErrorNode) { }
}
>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>
import Antlr4

/**
* This interface defines a complete generic visitor for a parse tree produced
* by {@link <file.parserName>}.
*
```

```
* @param \<T> The return type of the visit operation. Use {@link Void} for
* operations with no return type.
*/
<accessLevelOpenOK(file)> class <file.grammarName>Visitor\<T>: ParseTreeVisitor\<T> {
 <file.visitorNames:{lname |
/**
<if(file.visitorLabelRuleNames.(lname))>
* Visit a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.visitorLabelRuleNames.(lname)>\}.
<else>
 * Visit a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
- Parameters:
 - ctx: the parse tree
- returns: the visitor result
*/
<accessLevelOpenOK(file)> func visit<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) -> T {
 fatalError(#function + " must be overridden")
\}
}; separator="\n">
}
>>

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>
import Antlr4

/**
* This class provides an empty implementation of {@link <file.grammarName>Visitor},
* which can be extended to create a visitor which only needs to handle a subset
* of the available methods.
*
* @param \<T> The return type of the visit operation. Use {@link Void} for
* operations with no return type.
*/
<accessLevelOpenOK(file)> class <file.grammarName>BaseVisitor\<T>: AbstractParseTreeVisitor\<T> {
 <file.visitorNames:{lname
 |
/**
* {@inheritDoc\}
*
* \<p>The default implementation returns the result of calling
* {@link #visitChildren\} on {@code ctx\}.\</p>
```

```
*/
<accessLevelOpenOK(file)> func visit<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) -> T? { return visitChildren(ctx) \}}; separator="\n">
}
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName> by ANTLR <ANTLRVersion>
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<!//@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast"})!>
<accessLevelOpenOK(parser)> class <parser.name>: <superClass; null="Parser"> {

 internal static var _decisionToDFA: [DFA] = {
        var decisionToDFA = [DFA]()
        let length = <parser.name>._ATN.getNumberOfDecisions()
        for i in 0..\<length {
         <!// decisionToDFA[i] = DFA(<parser.name>._ATN.getDecisionState(i)!,
 i);!>
          decisionToDFA.append(DFA(<parser.name>._ATN.getDecisionState(i)!, i))
         }
         return decisionToDFA
   }()

 internal static let _sharedContextCache = PredictionContextCache()

 <if(parser.tokens)>
 <accessLevelNotOpen(parser)>
 enum Tokens: Int {
  case EOF = -1, <parser.tokens:{k | <k> = <parser.tokens.(k)>}; separator=", ", wrap, anchor>
 }
 <endif>

 <accessLevelNotOpen(parser)>
 <if(parser.rules)>
 static let <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>
 <endif>

 <accessLevelNotOpen(parser)>
 static let ruleNames: [String] = [
  <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
 ]
```

```
 <vocabulary(parser.literalNames, parser.symbolicNames,
                 accessLevelNotOpen(parser))>

 override <accessLevelOpenOK(parser)>
 func getGrammarFileName() -> String { return "<parser.grammarFileName>" }

 override <accessLevelOpenOK(parser)>
 func getRuleNames() -> [String] { return <parser.name>.ruleNames
 }

 override <accessLevelOpenOK(parser)>
 func getSerializedATN() -> [Int] { return <parser.name>._serializedATN }

 override <accessLevelOpenOK(parser)>
 func getATN() -> ATN { return <parser.name>._ATN }

 <namedActions.members>
 <parser:(ctor)()>
 <funcs; separator="\n">

<if(sempredFuncs)>
 override <accessLevelOpenOK(parser)>
 func sempred(_ _localctx: RuleContext?, _ ruleIndex: Int,  _ predIndex: Int)throws -> Bool {
  switch (ruleIndex) {
  <parser.sempredFuncs.values:{f|
case  <f.ruleIndex>:
 return try <f.name>_sempred(_localctx?.castdown(<f.ctxType>.self), predIndex)}; separator="\n">
     default: return true
  }
  <!return true;!>
 }
 <sempredFuncs.values; separator="\n">
<endif>

 <atn>

 <accessLevelNotOpen(parser)>
 static let _ATN = try! ATNDeserializer().deserialize(_serializedATN)
}
>>

vocabulary(literalNames, symbolicNames, accessLevel) ::= <<
private static let _LITERAL_NAMES: [String?] = [
 <literalNames:{t | <t>}; null="nil", separator=", ", wrap,
 anchor>
]
private static let _SYMBOLIC_NAMES: [String?] = [
 <symbolicNames:{t | <t>}; null="nil", separator=", ", wrap, anchor>
```

```
]
<accessLevel>
static let VOCABULARY = Vocabulary(_LITERAL_NAMES, _SYMBOLIC_NAMES)
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
override <accessLevelOpenOK(parser)>
func action(_ _localctx: RuleContext?,  _ ruleIndex: Int, _ actionIndex: Int) throws {
 switch (ruleIndex) {
 <recog.actionFuncs.values:{f|
case <f.ruleIndex>:
 try <f.name>_action((_localctx as <f.ctxType>?), actionIndex)
  }; separator="\n">
 default: break
 }
}
<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
override <accessLevelOpenOK(parser)>
func sempred(_ _localctx: RuleContext?, _  ruleIndex: Int,_   predIndex: Int) throws -> Bool {
 switch (ruleIndex) {
 <recog.sempredFuncs.values:{f|
case <f.ruleIndex>:
 return try <f.name>_sempred(_localctx?.castdown(<f.ctxType>.self), predIndex)}; separator="\n">
 default: return true
 }
 <!return
 true;!>
}
<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(p) ::= <<

override <accessLevelOpenOK(parser)>
func getVocabulary() -> Vocabulary {
   return <p.name>.VOCABULARY
}

override <accessLevelNotOpen(parser)>
init(_ input:TokenStream) throws {
   RuntimeMetaData.checkVersion("<file.ANTLRVersion>", RuntimeMetaData.VERSION)
 try super.init(input)
 _interp = ParserATNSimulator(self,<p.name>._ATN,<p.name>._decisionToDFA,
<parser.name>._sharedContextCache)
```

```
}

>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
private func <r.name>_action(_ _localctx: <r.ctxType>?,  _ actionIndex: Int) throws {
 switch (actionIndex) {
 <actions:{index|
case <index>:
 <actions.(index)>
  }; separator="\n">
  default: break
 }
}
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
 */
RuleSempredFunction(r, actions) ::= <<
private func <r.name>_sempred(_ _localctx: <r.ctxType>!,  _ predIndex: Int) throws -> Bool {
 switch (predIndex) {
 <actions:{index|
   case <index>:return <actions.(index)>}; separator="\n">
     default: return true
 }
 <!return true;!>
}
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<
<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">
@discardableResult
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else> <accessLevelOpenOK(parser)> func
<endif><currentRule.escapedName>(<if(first(args))>_ <endif><args; separator=", _">) throws ->
<currentRule.ctxType> {
 var _localctx: <currentRule.ctxType>
 _localctx = <currentRule.ctxType>(_ctx, getState()<currentRule.args:{a | , <a.escapedName>}>)
 try enterRule(_localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>)
 <namedActions.init>
 <locals; separator="\n">
 defer {
```

```
   <finallyAction>
    try! exitRule()
   }
 do {
<if(currentRule.hasLookaheadBlock)>
  var _alt:Int
<endif>
   <code>
  <postamble; separator="\n">
   <namedActions.after>
 }
 <if(exceptions)>
 <exceptions; separator="\n">
 <else>
 catch ANTLRException.recognition(let re) {
  _localctx.exception = re
  _errHandler.reportError(self, re)
  try _errHandler.recover(self, re)
 }
 <endif>

 return _localctx
}
>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
 namedActions,finallyAction,postamble) ::=
<<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else> <accessLevelNotOpen(parser)> final <endif>
func <currentRule.escapedName>( <if(first(args))>_ <endif><args; separator=", _">) throws ->
<currentRule.ctxType>   {
 return try <currentRule.escapedName>(0<currentRule.args:{a | , <a.escapedName>}>)
}
@discardableResult
private func <currentRule.escapedName>(_ _p<args:{a | , <a>}>:
 Int) throws -> <currentRule.ctxType>   {
 let _parentctx: ParserRuleContext? = _ctx
 let _parentState: Int = getState()
 var _localctx: <currentRule.ctxType>
 _localctx = <currentRule.ctxType>(_ctx, _parentState<currentRule.args:{a | , <a.escapedName>}>)
 var _prevctx: <currentRule.ctxType> = _localctx
 let _startState: Int = <currentRule.startState>
 try enterRecursionRule(_localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>, _p)
 <namedActions.init>
```

```
 <locals; separator="\n">
 defer {
     <finallyAction>
     try! unrollRecursionContexts(_parentctx)
   }
 do {
<if(currentRule.hasLookaheadBlock)>
  var _alt: Int
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 }
 catch ANTLRException.recognition(let re) {
  _localctx.exception = re
  _errHandler.reportError(self, re)
  try _errHandler.recover(self, re)
 }

 return _localctx;
}
>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx
 =  <currentOuterMostAltCodeBlock.altLabel; format="cap">Context(_localctx);<endif>
try enterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>)
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<!//{!>
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
<!//}!>
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = try _input.LT(1)<endif>
<preamble; separator="\n">
switch (<parser.name>.Tokens(rawValue: try _input.LA(1))!) {
<choice.altLook,alts:{look,alt | <cases(tokens=look)>
 <alt>
 break}; separator="\n">
default:
```

```
 <error>
}
>>

LL1OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
switch (<parser.name>.Tokens(rawValue: try _input.LA(1))!) {
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
  <alt>
 break}; separator="\n">
default:
 break
}
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<preamble; separator="\n">
if (<expr>) {
 <alts; separator="\n">
}
<!else if ( !(<followExpr>) ) <error>!>
>>

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<preamble; separator="\n">
while (<loopExpr>) {
 <alts; separator="\n">
 setState(<choice.loopBackStateNumber>)
 try _errHandler.sync(self)
 <iteration>
}
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.blockStartStateNumber>) <! alt block decision !>
try _errHandler.sync(self)
<preamble; separator="\n">
repeat {
 <alts; separator="\n">
 setState(<choice.stateNumber>); <! loopback/exit decision !>
 try _errHandler.sync(self)
 <iteration>
} while (<loopExpr>)
```

```
>>

// LL(*) stuff

AltBlock(choice,
 preamble, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = try _input.LT(1)<endif>
<preamble; separator="\n">
switch(try getInterpreter().adaptivePredict(_input,<choice.decision>, _ctx)) {
<alts:{alt |
case <i>:
 <alt>
 break}; separator="\n">
default: break
}
>>

OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
switch (try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)) {
<alts:{alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break}; separator="\n">
default: break
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
_alt = try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)
while (_alt != <choice.exitAlt> && _alt != ATN.INVALID_ALT_NUMBER) {
 if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {
  <iteration>
  <alts> <! should only be one !>
 }
 setState(<choice.loopBackStateNumber>)
 try
 _errHandler.sync(self)
 _alt = try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)
}
>>

PlusBlock(choice, alts, error) ::= <<
```

```
setState(<choice.blockStartStateNumber>); <! alt block decision !>
try _errHandler.sync(self)
_alt = 1<if(!choice.ast.greedy)>+1<endif>;
repeat {
 switch (_alt) {
 <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break}; separator="\n">
 default:
  <error>
 }
 setState(<choice.loopBackStateNumber>); <! loopback/exit decision !>
 try _errHandler.sync(self)
 _alt = try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)
} while (_alt != <choice.exitAlt> && _alt !=  ATN.INVALID_ALT_NUMBER)
>>

Sync(s) ::= "sync(<s.expecting.name>);"

ThrowNoViableAlt(t) ::= "throw ANTLRException.recognition(e: NoViableAltException(self))"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.tokens)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>

//
 Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
(Int64(<shiftAmount>) & ~0x3f) == 0
>>

bitsetBitfieldComparison(s, bits) ::= <<
(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((Int64(1) \<\< <offsetShift(s.varName,
bits.shift)>) & <bits.calculated>) != 0)
>>

isZero ::= [
"0": true,
default: false
]
parserName(t) ::= <%
<parser.name>.Tokens.<t.name>.rawValue
%>
offsetShift(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>
```

```
bitsetInlineComparison(s, bits) ::= <%
<bits.tokens:{t | <s.varName> == <parser.name>.Tokens.<t.name>.rawValue}; separator=" || ">
%>

cases(tokens) ::= <<
<trunc(tokens): {t | case .<t.name>:fallthrough}  ; separator="\n">
<last(tokens): {t | case .<t.name>:}  ; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
setState(<r.stateNumber>)
<if(r.labels)>
try {
  let assignmentValue = try
<r.escapedName>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChunks>)
  <r.labels:{l
 | <labelref(l)> = assignmentValue} ; separator="\n">
    }()
<else>try
<r.escapedName>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChunks>)<
endif>
>>

MatchToken(m) ::= <<
setState(<m.stateNumber>)
<if(m.labels)>
try {
  let assignmentValue = try match(<parser.name>.Tokens.<m.escapedName>.rawValue)
  <m.labels:{l | <labelref(l)> = assignmentValue}  ; separator="\n">
    }()
<else>try match(<parser.name>.Tokens.<m.escapedName>.rawValue)<endif>
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
setState(<m.stateNumber>)
<if(m.labels)><m.labels:{l | <labelref(l)> = }>try _input.LT(1)<endif>
<capture>
if (<if(invert)><m.varName> \<= 0 || <else>!<endif>(<expr>)) {
 <if(m.labels)><m.labels:{l
 | <labelref(l)> = }><endif>try _errHandler.recoverInline(self)<if(m.labels)> as Token<endif>
}
else {
 _errHandler.reportMatch(self)
```

```
 try consume()
}
>>

Wildcard(w) ::= <<
setState(<w.stateNumber>)
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>try matchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
setState(<p.stateNumber>)
if (!(<chunks>)) {
   throw ANTLRException.recognition(e:FailedPredicateException(self, <p.predicate><if(failChunks)>,
<failChunks><elseif(p.msg)>, <p.msg><endif>))
}
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
 <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "skip()"
LexerMoreCommand()  ::= "more()"
LexerPopModeCommand() ::= "popMode()"

LexerTypeCommand(arg)      ::= "_type = <arg>"
LexerChannelCommand(arg)   ::= "_channel = <arg>"
LexerModeCommand(arg)      ::= "_mode =
 <arg>"
LexerPushModeCommand(arg)  ::= "pushMode(<arg>)"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<a.escapedName>"
LocalRef(a) ::= "_localctx.<a.escapedName>"
RetValueRef(a) ::= "_localctx.<a.escapedName>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.escapedName>"
/** How to translate $tokenLabel */
```

```
TokenRef(t) ::= "<ctx(t)>.<t.escapedName>"
LabelRef(t) ::= "<ctx(t)>.<t.escapedName>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.escapedName)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.escapedName> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getText()! : \"\")"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getType() : 0)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getLine() : 0)"
TokenPropertyRef_pos(t) ::= "(<ctx(t)>.<t.label>
 != nil ? <ctx(t)>.<t.label>!.getCharPositionInLine() : 0)"
TokenPropertyRef_channel(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getChannel() : 0)"
TokenPropertyRef_index(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getTokenIndex() : 0)"
TokenPropertyRef_int(t) ::= "(<ctx(t)>.<t.label> != nil ? Int(<ctx(t)>.<t.label>!.getText()!) : 0)"

RulePropertyRef_start(r) ::= "(<ctx(r)>.<r.label> != nil ? (<ctx(r)>.<r.label>!.start?.description ?? \"\") : \"\")"
RulePropertyRef_stop(r)  ::= "(<ctx(r)>.<r.label> != nil ? (<ctx(r)>.<r.label>!.stop?.description ?? \"\") : \"\")"
RulePropertyRef_text(r)  ::= "(<ctx(r)>.<r.label> != nil ? try
_input.getText(<ctx(r)>.<r.label>!.start,<ctx(r)>.<r.label>!.stop) : \"\")"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "self"

ThisRulePropertyRef_start(r) ::= "_localctx.start"
ThisRulePropertyRef_stop(r)  ::= "_localctx.stop"
ThisRulePropertyRef_text(r)  ::= "(try _input.getText(_localctx.start,
 try _input.LT(-1)))"
ThisRulePropertyRef_ctx(r)  ::= "_localctx"
ThisRulePropertyRef_parser(r)  ::= "self"

NonLocalAttrRef(s)   ::= "((<s.ruleName;
format=\"cap\">Context)getInvokingContext(<s.ruleIndex>)).<s.escapedName>"
SetNonLocalAttr(s, rhsChunks)   ::=
 "((<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>)).<s.escapedName> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.append(<labelref(a.label)>)"

TokenDecl(t) ::= "<t.escapedName>: <SwiftTypeMap.(TokenLabelType())>!"
TokenTypeDecl(t) ::= "var <t.escapedName>: Int = 0"
TokenListDecl(t) ::= "<t.escapedName>: [Token] = [Token]()"
RuleContextDecl(r) ::= "<r.escapedName>: <r.ctxName>!"
RuleContextListDecl(rdecl) ::= "<rdecl.escapedName>: [<rdecl.ctxName>] = [<rdecl.ctxName>]()"

ContextTokenGetterDecl(t) ::= <<
 <accessLevelOpenOK(parser)>
 func <t.escapedName>() -> TerminalNode? {
  return getToken(<parser.name>.Tokens.<t.escapedName>.rawValue, 0)
```

```
 }
>>
ContextTokenListGetterDecl(t)
 ::= <<
 <accessLevelOpenOK(parser)>
 func <t.escapedName>() -> [TerminalNode] {
  return getTokens(<parser.name>.Tokens.<t.escapedName>.rawValue)
 }
>>
ContextTokenListIndexedGetterDecl(t) ::= <<
 <accessLevelOpenOK(parser)>
 func <t.escapedName>(_ i:Int) -> TerminalNode? {
  return getToken(<parser.name>.Tokens.<t.escapedName>.rawValue, i)
 }
>>
ContextRuleGetterDecl(r) ::= <<
 <accessLevelOpenOK(parser)>
 func <r.escapedName>() -> <r.ctxName>? {
  return getRuleContext(<r.ctxName>.self, 0)
 }
>>
ContextRuleListGetterDecl(r) ::= <<
 <accessLevelOpenOK(parser)>
 func <r.escapedName>() -> [<r.ctxName>] {
  return getRuleContexts(<r.ctxName>.self)
 }
>>
ContextRuleListIndexedGetterDecl(r)   ::= <<
 <accessLevelOpenOK(parser)>
 func <r.escapedName>(_ i: Int) -> <r.ctxName>? {
  return getRuleContext(<r.ctxName>.self, i)
 }
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
* r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName)
 ::= "_<tokenName>"
ImplicitRuleLabel(ruleName)   ::= "_<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)    ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = try _input.LT(1)"
```

```
CaptureNextTokenType(d) ::= "<d.varName> = try _input.LA(1)"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,signatures,
        superClass={ParserRuleContext}) ::= <<

<accessLevelNotOpen(parser)> class <struct.escapedName>:
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)>, <interfaces;
separator=", "><endif> {
 <attrs:{a | <accessLevelOpenOK(parser)> var <a>}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 <! <if(ctorAttrs)> <accessLevelNotOpen(parser)> init(_ parent: ParserRuleContext,_ invokingState: Int) {
super.init(parent, invokingState)  }<endif> !>
 <if(ctorAttrs)>
 <accessLevelNotOpen(parser)> convenience init(_ parent: ParserRuleContext?, _ invokingState:
 Int<ctorAttrs:{a | , _ <a>}>) {
  self.init(parent, invokingState)
  <struct.ctorAttrs:{a | self.<a.escapedName> = <a.escapedName>;}; separator="\n">
 }
 <endif>

 override <accessLevelOpenOK(parser)>
 func getRuleIndex() -> Int {
  return <parser.name>.RULE_<struct.derivedFromName>
 }
<if(struct.provideCopyFrom && struct.attrs)> <! don't need copy unless we have subclasses !>
 <accessLevelOpenOK(parser)>
 override func copyFrom(_ ctx_: ParserRuleContext) {
  super.copyFrom(ctx_)
  let ctx = ctx_ as! <struct.escapedName>
  <struct.attrs:{a | self.<a.escapedName> = ctx.<a.escapedName>;}; separator="\n">
 }
<endif>
 <dispatchMethods; separator="\n">
 <extensionMembers; separator="\n">
}
>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
<accessLevelNotOpen(parser)> class <struct.escapedName>: <currentRule.name; format="cap">Context {
 <attrs:{a | <accessLevelNotOpen(parser)> var <a>}; separator="\n">
 <getters:{g | <g>}; separator="\n">

 <accessLevelNotOpen(parser)>
 init(_
 ctx: <currentRule.name; format="cap">Context) {
  super.init()
  copyFrom(ctx)
 }
```

```
 <dispatchMethods; separator="\n">
}
>>

ListenerDispatchMethod(method) ::= <<
override <accessLevelOpenOK(parser)>
func <if(method.isEnter)>enter<else>exit<endif>Rule(_ listener: ParseTreeListener) {
 if let listener = listener as? <parser.grammarName>Listener {
  listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(self)
 }
}
>>

VisitorDispatchMethod(method) ::= <<
override <accessLevelOpenOK(parser)>
func accept\<T>(_ visitor: ParseTreeVisitor\<T>) -> T? {
 if let visitor = visitor as? <parser.grammarName>Visitor {
    return visitor.visit<struct.derivedFromName; format="cap">(self)
 }
 else if let visitor = visitor as? <parser.grammarName>BaseVisitor {
    return visitor.visit<struct.derivedFromName; format="cap">(self)
 }
 else {
     return visitor.visitChildren(self)
 }
}
>>

AttributeDecl(d) ::= "<d.escapedName>: <SwiftTypeMap.(d.type)><if(d.initValue)>
 = <d.initValue><else>!<endif>"

/** If we don't know location of label def x, use this template (_localctx as! <x.ctx.name> */
labelref(x) ::= "<if(!x.isLocal)>_localctx.castdown(<x.ctx.name>.self).<endif><x.escapedName>"

/** For any action chunk, what is correctly-typed context struct ptr?    */
ctx(actionChunk) ::= "_localctx.castdown(<actionChunk.ctx.name>.self)"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)  ::= "precpred(_ctx, <opPrec>)"
recRuleSetReturnAction(src,name)   ::= "$<name>=$<src>.<name>"
recRuleSetStopToken()                ::= "_ctx!.stop = try _input.LT(-1)"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
_localctx = <ctxName>Context(_parentctx, _parentState);
<if(label)>
<if(isListLabel)>
_localctx.<label>.append(_prevctx)
<else>
```

```
_localctx.<label> = _prevctx
<endif>
<endif>
try pushNewRecursionContext(_localctx, _startState, <parser.name>.RULE_<ruleName>)
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel,
 label, isListLabel) ::= <<
_localctx = <currentAltLabel; format="cap">Context(  <ruleName; format="cap">Context(_parentctx,
_parentState))
<if(label)>
<if(isListLabel)>
(_localctx as! <currentAltLabel; format="cap">Context).<label>.append(_prevctx)
<else>
(_localctx as! <currentAltLabel; format="cap">Context).<label> = _prevctx
<endif>
<endif>
try pushNewRecursionContext(_localctx, _startState, <parser.name>.RULE_<ruleName>)
>>

recRuleReplaceContext(ctxName) ::= <<
_localctx = <ctxName>Context(_localctx)
_ctx = _localctx
_prevctx = _localctx
>>

recRuleSetPrevCtx() ::= <<
if _parseListeners != nil {
  try triggerExitRuleEvent()
}
_prevctx = _localctx
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
<if(lexerFile.genPackage)>
<!package <lexerFile.genPackage>;!>
<endif>
<namedActions.header>
import Antlr4

<lexer>
>>
Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<accessLevelOpenOK(lexer)> class <lexer.name>:
 <superClass; null="Lexer"> {
```

```
internal static var _decisionToDFA: [DFA] = {
        var decisionToDFA = [DFA]()
        let length = <lexer.name>._ATN.getNumberOfDecisions()
        for i in 0..\<length {
          <! decisionToDFA[i] = DFA(<lexer.name>._ATN.getDecisionState(i)!, i);!>
             decisionToDFA.append(DFA(<lexer.name>._ATN.getDecisionState(i)!, i))
        }
         return decisionToDFA
   }()

internal static let _sharedContextCache = PredictionContextCache()

<accessLevelNotOpen(lexer)>
<if(lexer.tokens)>
static let <lexer.tokens:{k | <k>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>
<endif>

<if(lexer.escapedChannels)>
<accessLevelNotOpen(lexer)>
static let <lexer.escapedChannels:{k | <k>=<lexer.escapedChannels.(k)>}; separator=", ", wrap, anchor>
<endif>
<if(rest(lexer.escapedModeNames))>
<accessLevelNotOpen(lexer)>
static let <rest(lexer.escapedModeNames):{m| <m>=<i>}; separator=", ", wrap, anchor>
<endif>
<accessLevelNotOpen(lexer)>
static
let channelNames: [String] = [
 "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channelNames)>, <lexer.channelNames:{c| "<c>"};
separator=", ", wrap, anchor><endif>
]

<accessLevelNotOpen(lexer)>
static let modeNames: [String] = [
 <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor>
]

<accessLevelNotOpen(lexer)>
static let ruleNames: [String] = [
 <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
]

<vocabulary(lexer.literalNames, lexer.symbolicNames,
                accessLevelNotOpen(lexer))>

<namedActions.members>

override <accessLevelOpenOK(lexer)>
```

```
 func getVocabulary() -> Vocabulary {
  return <lexer.name>.VOCABULARY
 }

 <accessLevelNotOpen(lexer)>
 required init(_ input: CharStream) {
    RuntimeMetaData.checkVersion("<lexerFile.ANTLRVersion>", RuntimeMetaData.VERSION)
  super.init(input)
  _interp = LexerATNSimulator(self, <lexer.name>._ATN, <lexer.name>._decisionToDFA,
<lexer.name>._sharedContextCache)
 }

 override <accessLevelOpenOK(lexer)>
 func
 getGrammarFileName() -> String { return "<lexer.grammarFileName>" }

 override <accessLevelOpenOK(lexer)>
 func getRuleNames() -> [String] { return <lexer.name>.ruleNames }

 override <accessLevelOpenOK(lexer)>
 func getSerializedATN() -> [Int] { return <lexer.name>._serializedATN }

 override <accessLevelOpenOK(lexer)>
 func getChannelNames() -> [String] { return <lexer.name>.channelNames }

 override <accessLevelOpenOK(lexer)>
 func getModeNames() -> [String] { return <lexer.name>.modeNames }

 override <accessLevelOpenOK(lexer)>
 func getATN() -> ATN { return <lexer.name>._ATN }

 <dumpActions(lexer, "", actionFuncs, sempredFuncs)>
 <atn>

 <accessLevelNotOpen(lexer)>
 static let _ATN: ATN = try! ATNDeserializer().deserialize(_serializedATN)
}
>>

SerializedATN(model) ::= <<
static let _serializedATN:[Int] = [
 <model.serialized: {s | <s>}; separator=",", wrap>
]
>>

/** Using a type to init value map, try to init a type; if not in table
* must be an object,
```

```
 default value is "null".
*/
initValue(typeName) ::= <<
<SwiftTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".swift"
```

Found in path(s):
* /opt/cola/permits/2224916300_1729024207.2615368/0/antlr4-4-13-2-jar/org/antlr/v4/tool/templates/codegen/Swift/Swift.stg

1.5358 xbean-spring 4.24

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a

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However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses
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library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
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If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
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Otherwise, if the work is a derivative of the Library, you may
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code for the work under the terms of Section 6.
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any
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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1.5372 github.com/ovh/go-ovh 1.6.0

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1.5373 github.com/hetznercloud/hcloud-go/v2 2.10.2

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1.5375 github.com/grpc-ecosystem/grpc-gateway/v2 2.22.0

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03e4897d97c50595372db8edf19853f8

1.5376 google-golang-org-genproto-googleapis-api 0.0.0-20240814211410-ddb44dafa142

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1.5377 apacheutils 2.4.62-r0

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```

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```
/*****************************************************************************
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* National Center for Supercomputing Applications
* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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 *
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*
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    ==========

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   Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
 Mike Belshe (mbelshe@netscape.com)
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```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"><head>
<meta content="text/html; charset=UTF-8" http-equiv="Content-Type" />
<!--
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
        This file is generated from xml source: DO NOT EDIT
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
    -->
<title>The Apache License, Version 2.0 - Apache HTTP Server Version 2.4</title>
<link href="./style/css/manual.css" rel="stylesheet" media="all" type="text/css" title="Main stylesheet" />
<link href="./style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No Sidebar - Default font size" />
<link href="./style/css/manual-print.css" rel="stylesheet" media="print" type="text/css" /><link rel="stylesheet" type="text/css" href="./style/css/prettify.css"
 />
<script src="./style/scripts/prettify.min.js" type="text/javascript">
</script>

<link href="./images/favicon.ico" rel="shortcut icon" /></head>
<body id="manual-page" class="no-sidebar"><div id="page-header">
<p class="menu"><a href="./mod/">Modules</a> | <a href="./mod/directives.html">Directives</a> | <a href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="./glossary.html">Glossary</a> | <a href="./sitemap.html">Sitemap</a></p>
<p class="apache">Apache HTTP Server Version 2.4</p>
<img alt="" src="./images/feather.png" /></div>
<div class="up"><a href="./"><img title="&lt;-" alt="&lt;-" src="./images/left.gif" /></a></div>
<div id="path">
<a href="http://www.apache.org/">Apache</a> &gt; <a href="http://httpd.apache.org/">HTTP Server</a> &gt; <a href="http://httpd.apache.org/docs/">Documentation</a> &gt; <a href="./">Version 2.4</a></div><div id="page-content"><div id="preamble"><h1>The Apache License, Version 2.0</h1>
<div class="toplang">
<p><span>Available
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var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';
(function(w, d) {
  if (w.location.hostname.toLowerCase() == "httpd.apache.org") {
    d.write(' \/div>');
    var s = d.createElement('script');
    s.type = 'text/javascript';
    s.async = true;
    s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortname + '&page=' +
comments_identifier;
     (d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
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1.5379 utmps 0.1.2.3-r2

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1.5380 cobra 1.8.1

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1.5382 logr 1.4.2

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1.5383 prometheus-client 1.20.5

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1.5385 kubernetes-client 0.31.1

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1.5386 jackson-dataformat-yaml 2.16.1

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1.5388 libalgorithm-merge-perl 0.08-5

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```
NAME
   Algorithm::Merge - Three-way merge and diff

SYNOPSIS
    use Algorithm::Merge qw(merge diff3 traverse_sequences3);

    @merged = merge(\@ancestor, \@a, \@b, {
                CONFLICT => sub { }
            });

    @merged = merge(\@ancestor, \@a, \@b, {
```

```
            CONFLICT => sub { }
        }, $key_generation_function);

$merged = merge(\@ancestor, \@a, \@b, {
            CONFLICT => sub { }
        });

$merged = merge(\@ancestor, \@a, \@b, {
            CONFLICT => sub { }
        }, $key_generation_function);

@diff   = diff3(\@ancestor, \@a, \@b);

@diff   = diff3(\@ancestor, \@a, \@b, $key_generation_function);

$diff   = diff3(\@ancestor, \@a, \@b);

$diff   = diff3(\@ancestor, \@a, \@b, $key_generation_function);

@trav   = traverse_sequences3(\@ancestor, \@a, \@b, {
            # callbacks

        });

@trav   = traverse_sequences3(\@ancestor, \@a, \@b, {
            # callbacks
        }, $key_generation_function);

$trav   = traverse_sequences3(\@ancestor, \@a, \@b, {
            # callbacks
        });

$trav   = traverse_sequences3(\@ancestor, \@a, \@b, {
            # callbacks
        }, $key_generation_function);
```

USAGE

This module complements Algorithm::Diff by providing three-way merge and diff functions.

In this documentation, the first list to "diff3", "merge", and "traverse_sequences3" is called the `original' list. The second list is the `left' list. The third list is the `right' list.

The optional key generation arguments are the same as in Algorithm::Diff. See Algorithm::Diff for more information.

diff3

Given references to three lists of items, "diff3" performs a three-way difference.

This function returns an array of operations describing how the left and right lists differ from the original list. In scalar context, this function returns a reference to such an array.

Perhaps an example would be useful.

Given the following three lists,

```
 original: a b c   e f   h i   k
     left: a b   d e f g   i j k
    right: a b c d e     h i j k

    merge: a b   d e   g   i j k
```

we have the following result from diff3:

```
[ 'u', 'a',   'a',   'a' ],
[ 'u', 'b',   'b',   'b' ],
[ 'l', 'c',   undef, 'c' ],
[ 'o', undef, 'd',   'd' ],
[ 'u', 'e',   'e',   'e' ],
[ 'r', 'f',   'f',   undef ],
[ 'o', 'h',   'g',   'h' ],
[ 'u', 'i',   'i',   'i' ],
[ 'o', undef, 'j',   'j' ],
[ 'u', 'k',   'k',   'k' ]
```

The first element in each row is the array with the difference:

```
c - conflict (no two are the same)
l - left is different
o - original is different
r - right is different
u - unchanged
```

The next three elements are the lists from the original, left, and right arrays respectively that the row refers to (in the synopsis, these are @ancestor, @a, and @b, respectively).

merge

Given references to three lists of items, "merge" performs a three-way merge. The "merge" function uses the "diff3" function to do most of the work.

The only callback currently used is "CONFLICT" which should be a reference to a subroutine that accepts two array references. The first array reference is to a list of elements from the left list. The second array reference is to a list of elements from the right list. This callback should return a list of elements to place in the merged list in place of the conflict.

The default "CONFLICT" callback returns the following:

```
q{<!-- ------ START CONFLICT ------ -->},
(@left),
q{<!-- ---------------------------- -->},
(@right),
q{<!-- ------  END  CONFLICT ------ -->},
```

traverse_sequences3

This is the workhorse function that goes through the three sequences and calls the callback functions.

The following callbacks are supported.

NO_CHANGE

This is called if all three sequences have the same element at the current position. The arguments are the current positions within each sequence, the first argument being the current position within the first sequence.

A_DIFF

This is called if the first sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the first sequence is not in either of the other two sequences.

If two arguments, then there is no element in the first sequence that corresponds to the elements at the given positions in the second and third sequences.

If three arguments, then the element at the given position in the first sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

B_DIFF

This is called if the second sequence is different than the other

two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the second sequence is not in either of the other two sequences.

If two arguments, then there is no element in the second sequence that corresponds to the elements at the given positions in the first and third sequences.

If three arguments, then the element at the given position in the second sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

C_DIFF

This is called if the third sequence
is different than the other two
sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the third sequence is not in either of the other two sequences.

If two arguments, then there is no element in the third sequence that corresponds to the elements at the given positions in the first and second sequences.

If three arguments, then the element at the given position in the third sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

CONFLICT

This is called if all three sequences have different elements at the current position. The three arguments are the current positions within each sequence.

BUGS

Most assuredly there are bugs. If a pattern similar to the above example does not work, send it to <jsmith@cpan.org> or report it on <http://rt.cpan.org/>, the CPAN bug tracker.

Algorithm::Diff's implementation of "traverse_sequences" may not be symmetric with respect to the input sequences if the second and third sequence are of different lengths. Because of this, "traverse_sequences3" will calculate the diffs of the second and third sequences as passed and swapped. If the differences are not the same, it

will issue an `Algorithm::Diff::diff is not symmetric for second and third sequences...' warning. It will try to handle this, but there may be some cases where it can't.

SEE ALSO

Algorithm::Diff.

AUTHOR

James G. Smith, <jsmith@cpan.org>

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```
#
# For testing:
#
sub main::diag {
   warn join("", @_) , "\n";
}

print join(" ", merge(
#print Data::Dumper -> Dump([
#    merge(
#    #[qw(a b c d       h i j)], # ancestor
#    #[qw(a b c d   f   h i j)], # left
#    #[qw(a b c   e   g      )], # right
   [qw(0 1 2 3 4 7 9 b)],
   [qw(0 6       8 a b)],
   [qw(0 1 2 3 5 8 a b)],
##
   {
      CONFLICT => sub ($$) { (
         q{<}, @{$_[0]}, q{|}, @{$_[1]}, q{>}
      ) },
   },
)), "\n";
#)]), "\n";
#print join(" ", @{
#    [qw(0 1 @ < 3 | # > 6)]
#  }), "\n";
```

```
1;
__END__


1;

__END__

=head1 NAME

Algorithm::Merge - Three-way merge and diff

=head1 SYNOPSIS

use Algorithm::Merge qw(merge diff3 traverse_sequences3);

@merged = merge(\@ancestor, \@a, \@b, {
            CONFLICT => sub { }
        });

@merged = merge(\@ancestor, \@a, \@b, {
            CONFLICT => sub { }
        }, $key_generation_function);

$merged = merge(\@ancestor,
 \@a, \@b, {
            CONFLICT => sub { }
        });

$merged = merge(\@ancestor, \@a, \@b, {
            CONFLICT => sub { }
        }, $key_generation_function);

@diff   = diff3(\@ancestor, \@a, \@b);

@diff   = diff3(\@ancestor, \@a, \@b, $key_generation_function);

$diff   = diff3(\@ancestor, \@a, \@b);

$diff   = diff3(\@ancestor, \@a, \@b, $key_generation_function);

@trav   = traverse_sequences3(\@ancestor, \@a, \@b, {
            # callbacks
        });

@trav   = traverse_sequences3(\@ancestor, \@a, \@b, {
            # callbacks
```

```
        }, $key_generation_function);

$trav   = traverse_sequences3(\@ancestor, \@a, \@b, {
            # callbacks
        });

$trav   = traverse_sequences3(\@ancestor, \@a, \@b, {
            # callbacks
        }, $key_generation_function);
```

=head1 USAGE

This module complements L<Algorithm::Diff|Algorithm::Diff> by
providing three-way merge and diff functions.

In this documentation,
 the first list to C<diff3>, C<merge>, and
C<traverse_sequences3> is
called the `original' list.  The second list is the `left' list. The
third list is the `right' list.

The optional key generation arguments are the same as in
L<Algorithm::Diff|Algorithm::Diff>. See L<Algorithm::Diff> for more
information.

=head2 diff3

Given references to three lists of items, C<diff3> performs a
three-way difference.

This function returns an array of operations describing how the
left and right lists differ from the original list. In scalar
context, this function returns a reference to such an array.

Perhaps an example would be useful.

Given the following three lists,

```
 original: a b c   e f   h i   k
     left: a b   d e f g   i j k
    right: a b c d e     h i j k

    merge: a b   d e   g   i j k
```

we have the following result from diff3:

```
[ 'u', 'a',   'a',   'a' ],
```

```
[ 'u', 'b',   'b',   'b' ],
[ 'l', 'c',   undef, 'c' ],
[ 'o', undef, 'd',   'd' ],
[ 'u', 'e',   'e',
   'e' ],
[ 'r', 'f',   'f',   undef ],
[ 'o', 'h',   'g',   'h' ],
[ 'u', 'i',   'i',   'i' ],
[ 'o', undef, 'j',   'j' ],
[ 'u', 'k',   'k',   'k' ]
```

The first element in each row is the array with the difference:

c - conflict (no two are the same)
l - left is different
o - original is different
r - right is different
u - unchanged

The next three elements are the lists from the original, left,
and right arrays respectively that the row refers to (in the synopsis,
these are C<@ancestor>, C<@a>, and C<@b>, respectively).

=head2 merge

Given references to three lists of items, C<merge> performs a three-way
merge. The C<merge> function uses the C<diff3> function to do most of
the work.

The only callback currently used is C<CONFLICT> which should be a
reference to a subroutine that accepts two array references. The
first array reference is to a list of elements from the left list.
The second array reference is to a list of elements from the right list.
This callback
 should return a list of elements to place in the merged
list in place of the conflict.

The default C<CONFLICT> callback returns the following:

```
q{<!-- ------ START CONFLICT ------ -->},
(@left),
q{<!-- ---------------------------- -->},
(@right),
q{<!-- ------  END  CONFLICT ------ -->},
```

=head2 traverse_sequences3

This is the workhorse function that goes through the three sequences

and calls the callback functions.

The following callbacks are supported.

=over 4

=item NO_CHANGE

This is called if all three sequences have the same element at the current position. The arguments are the current positions within each sequence, the first argument being the current position within the first sequence.

=item A_DIFF

This is called if the first sequence is different than the other two sequences at the current position.
This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the first sequence is not
in either of the other two sequences.

If two arguments, then there is no element in the first sequence that corresponds to the elements at the given positions in the second and third sequences.

If three arguments, then the element at the given position in the first sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

=item B_DIFF

This is called if the second sequence is different than the other two sequences at the current position.
This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the second sequence is not in either of the other two sequences.

If two arguments, then there is no element in the second sequence that corresponds to the elements at the given positions in the first and third sequences.

If three arguments, then the element at the given position in the second sequence is different than the corresponding
element in the other two
sequences, but the other two sequences have corresponding elements.

=item C_DIFF

This is called if the third sequence is different than the other two sequences at the current position.
This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the third sequence is not in either of the other two sequences.

If two arguments, then there is no element in the third sequence that corresponds to the elements at the given positions in the first and second sequences.

If three arguments, then the element at the given position in the third sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

=item CONFLICT

This is called if all three sequences have different elements at the current position. The three arguments are the current positions within each sequence.

=back 4

=head1 BUGS

Most assuredly
 there are bugs. If a pattern similar to the above
example does not work, send it to <jsmith@cpan.org> or report it on
<http://rt.cpan.org/>, the CPAN bug tracker.

L<Algorithm::Diff|Algorithm::Diff>'s implementation of
C<traverse_sequences> may not be symmetric with respect to the input
sequences if the second and third sequence are of different lengths.
Because of this, C<traverse_sequences3> will calculate the diffs of
the second and third sequences as passed and swapped. If the differences
are not the same, it will issue an `Algorithm::Diff::diff is not symmetric
for second and third sequences...' warning. It will try to handle
this, but there may be some cases where it can't.

=head1 SEE ALSO

L<Algorithm::Diff>.

=head1 AUTHOR

James G. Smith, <jsmith@cpan.org>

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Found
 in path(s):
* /opt/cola/permits/2244335934_1729842342.5980027/0/libalgorithm-merge-perl-0-08-orig-1-tar-gz/Algorithm-Merge-0.08/Merge.pm

1.5389 cpp 14.2.0-4ubuntu2~24.04

1.5389.1 Available under license :

This is the Debian GNU/Linux prepackaged version of the GNU compiler
collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C,
Objective-C++, and Modula-2 compilers, documentation, and support
libraries. In addition, Debian provides the gm2 compiler, either in
the same source package, or built from a separate same source package.
Packaging is done by the Debian GCC Maintainers
<debian-gcc@lists.debian.org>, with sources obtained from:

 ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)
 svn://gcc.gnu.org/svn/gcc/ (for prereleases)
 ftp://sourceware.org/pub/newlib/ (for newlib)
 git://git.savannah.gnu.org/gm2.git (for Modula-2)

The current gcc-14 source package is taken from the git gcc-14-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language,
library, and documentation as follows:

```
Language       Compiler package  Library package    Documentation
-----------------------------------------------------------------------------
Ada
            gnat-14          libgnat-14          gnat-14-doc
C              gcc-14                               gcc-14-doc
C++            g++-14           libstdc++6         libstdc++6-14-doc
D              gdc-14
Fortran 95     gfortran-14      libgfortran5       gfortran-14-doc
Go             gccgo-14         libgo0
Objective C    gobjc-14         libobjc4
```

Objective C++ gobjc++-14
Modula-2 gm2-14 libgm2
Rust gccrs-14

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

Language	Sources	Development	Debugging	Position-Independent
C++		libstdc++6-14-dbg	libstdc++6-14-pic	
D	libphobos-14-dev			

Additional packages include:

All languages:
libgcc1, libgcc2, libgcc4
  GCC intrinsics (platform-dependent)
gcc-14-base Base files common to all compilers
gcc-14-soft-float Software floating point (ARM only)
gcc-14-source The sources with patches

Ada:
libgnat-util14-dev, libgnat-util14 GNAT version library

C:
cpp-14, cpp-14-doc GNU C Preprocessor
libssp0-dev, libssp0 GCC stack smashing protection library
libquadmath0 Math routines for the __float128 type
fixincludes Fix non-ANSI header files

C, C++ and Fortran 95:
libgomp1-dev, libgomp1 GCC OpenMP (GOMP) support library
libitm1-dev, libitm1 GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can also run 64-bit code,
 Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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  gcc/tsystem.h, gcc/typeclass.h).
- libatomic
- libdecnumber
- libgm2
- libgomp
- libgrust
- libitm
- libssp
- libstdc++-v3
- libobjc
- libgfortran
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libquadmath/math/
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fmodq.c, frexpq.c, hypotq.c, ilogbq.c, isnanq.c, jnq.c, ldexpq.c,
logbq.c, modfq.c, nearbyintq.c, nextafterq.c, powq.c, remainderq.c,
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D:

gdc-14	GNU D Compiler
libphobos-14-dev	D standard runtime library

The D source package is made up of the following components.

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The Phobos standard runtime library:
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1.5392 lto-disabled-list 47

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* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/core/codec/AbstractSingleValueEncoder.java
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* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/util/concurrent/CompletableToListenableFutureAdapter.java
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* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/asm/ClassVisitor.java
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* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/core/InfrastructureProxy.java
* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/core/io/ClassRelativeResourceLoader.java
* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/util/xml/SimpleSaxErrorHandler.java
* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/core/style/StylerUtils.java
* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/core/task/SyncTaskExecutor.java
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* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/core/serializer/support/SerializationDelegate.java
*
 /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/core/convert/support/FallbackObjectToStringConverter.java
* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/core/convert/converter/ConditionalGenericConverter.java
* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-

jar/org/springframework/util/AlternativeJdkIdGenerator.java
* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/util/JdkIdGenerator.java
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* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/objenesis/instantiator/sun/SunReflectionFactoryHelper.java
* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/objenesis/instantiator/perc/PercSerializationInstantiator.java
* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/objenesis/Objenesis.java
* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/objenesis/ObjenesisException.java
* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/objenesis/instantiator/basic/ProxyingInstantiator.java
* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/objenesis/instantiator/basic/NullInstantiator.java
* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/objenesis/strategy/PlatformDescription.java
* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/objenesis/instantiator/sun/SunReflectionFactoryInstantiator.java
* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/objenesis/instantiator/basic/ObjectInputStreamInstantiator.java
* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/objenesis/strategy/BaseInstantiatorStrategy.java
* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/objenesis/instantiator/annotations/Instantiator.java

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* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/objenesis/instantiator/util/UnsafeUtils.java
* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/objenesis/instantiator/android/AndroidSerializationInstantiator.java
* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/objenesis/instantiator/sun/UnsafeFactoryInstantiator.java
* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/objenesis/instantiator/annotations/Typology.java
* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/objenesis/instantiator/ObjectInstantiator.java
* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/objenesis/instantiator/gcj/GCJSerializationInstantiator.java
* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/objenesis/instantiator/util/ClassUtils.java
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* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/objenesis/ObjenesisStd.java
* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/objenesis/instantiator/basic/DelegatingToExoticInstantiator.java
* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/objenesis/instantiator/android/Android10Instantiator.java
* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/objenesis/instantiator/android/Android18Instantiator.java
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* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/objenesis/strategy/InstantiatorStrategy.java
* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/objenesis/instantiator/SerializationInstantiatorHelper.java
* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/objenesis/instantiator/gcj/GCJInstantiator.java
* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/objenesis/ObjenesisBase.java
* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/objenesis/strategy/SingleInstantiatorStrategy.java
* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/objenesis/instantiator/android/Android17Instantiator.java
* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/objenesis/instantiator/basic/NewInstanceInstantiator.java
* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/objenesis/strategy/SerializingInstantiatorStrategy.java
* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-

jar/org/springframework/objenesis/instantiator/basic/FailingInstantiator.java
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jar/org/springframework/objenesis/instantiator/sun/MagicInstantiator.java
* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-
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* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-
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* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-
jar/org/springframework/objenesis/instantiator/sun/SunReflectionFactorySerializationInstantiator.java
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jar/org/springframework/core/io/ResourceEditor.java
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jar/org/springframework/core/style/ToStringStyler.java

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* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/core/convert/support/IdToEntityConverter.java
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* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/core/convert/converter/GenericConverter.java
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* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/core/type/filter/AspectJTypeFilter.java
* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/core/env/MissingRequiredPropertiesException.java
* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/core/convert/ConverterNotFoundException.java
* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/util/InvalidMimeTypeException.java
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* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/core/convert/support/AbstractConditionalEnumConverter.java
* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/core/codec/EncodingException.java
* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/core/annotation/Order.java
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* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/util/xml/AbstractStaxHandler.java
* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/core/DecoratingClassLoader.java
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/opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/core/type/ClassMetadata.java
* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/core/style/DefaultToStringStyler.java
* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/core/convert/support/CollectionToObjectConverter.java
* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/core/io/support/VfsPatternUtils.java
* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/core/codec/CodecException.java
* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/util/xml/StaxResult.java
* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-

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* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/core/convert/support/EnumToIntegerConverter.java
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* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/core/convert/support/EnumToStringConverter.java
* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/core/convert/support/CharacterToNumberFactory.java
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* /opt/cola/permits/2245439746_1729899692.8751185/0/spring-core-6-1-14-sources-jar/org/springframework/core/convert/support/StringToPropertiesConverter.java

1.5401 python-pip 24.3.1

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A. HISTORY OF THE SOFTWARE
==========

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes

1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
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2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/xml/AbstractBeanDefinitionParser.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/BeanDefinitionStoreException.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/support/SimpleBeanDefinitionRegistry.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/NoSuchBeanDefinitionException.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/config/PropertyOverrideConfigurer.java

* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/support/AutowireCandidateQualifier.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/Mergeable.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/parsing/CompositeComponentDefinition.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/support/ManagedArray.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/config/DestructionAwareBeanPostProcessor.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/support/MergedBeanDefinitionPostProcessor.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/DisposableBean.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/MethodInvocationException.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/xml/DefaultDocumentLoader.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/CannotLoadBeanClassException.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/support/PagedListHolder.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/InvalidPropertyException.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/propertyeditors/CustomDateEditor.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/PropertyAccessorFactory.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/config/NamedBeanHolder.java
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* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/PropertyAccessException.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/InitializingBean.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/annotation/AnnotationBeanWiringInfoResolver.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/config/MethodInvokingFactoryBean.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/propertyeditors/CustomBooleanEditor.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/BeanInstantiationException.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-

jar/org/springframework/beans/NotWritablePropertyException.java
*
 /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-
jar/org/springframework/beans/PropertyValues.java
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* limitations under the License.
*/
/**
  * Process the given {@link ConfigurableListableBeanFactory} instance
  * ahead-of-time and return a contribution or {@code null}.
  * <p>Processors are free to use any techniques they like to analyze the given
  * bean factory. Most typically use reflection to find fields or methods to
  * use in the
 contribution. Contributions typically generate source code or
  * resource files that can be used when the AOT optimized application runs.
  * <p>If the given bean factory does not contain anything that is relevant to
  * the processor, this method should return a {@code null} contribution.
  * @param beanFactory the bean factory to process
  * @return a {@link BeanFactoryInitializationAotContribution} or {@code null}
  */
```

Found in path(s):
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-
jar/org/springframework/beans/factory/aot/BeanFactoryInitializationAotProcessor.java
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* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/BeanMetadataAttributeAccessor.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/propertyeditors/ClassEditor.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/config/ProviderCreatingFactoryBean.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/xml/DocumentDefaultsDefinition.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/config/EmbeddedValueResolver.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/xml/AbstractSingleBeanDefinitionParser.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/parsing/AliasDefinition.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/config/ObjectFactoryCreatingFactoryBean.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/propertyeditors/ByteArrayPropertyEditor.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/config/DeprecatedBeanWarner.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/xml/NamespaceHandlerSupport.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/propertyeditors/CharArrayPropertyEditor.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/propertyeditors/CharacterEditor.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/config/SetFactoryBean.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/BeanClassLoaderAware.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/propertyeditors/PatternEditor.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/config/PropertiesFactoryBean.java

* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/parsing/ImportDefinition.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/BeanWrapper.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/parsing/Problem.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/propertyeditors/ClassArrayEditor.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/FatalBeanException.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/propertyeditors/ResourceBundleEditor.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/config/ListFactoryBean.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/wiring/BeanWiringInfo.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/BeansException.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/parsing/Location.java
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* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/BeanMetadataElement.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/annotation/AnnotatedGenericBeanDefinition.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/support/DefaultBeanNameGenerator.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-

jar/org/springframework/beans/propertyeditors/StringTrimmerEditor.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-
jar/org/springframework/beans/factory/config/BeanFactoryPostProcessor.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-
jar/org/springframework/beans/TypeConverter.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-
jar/org/springframework/beans/factory/xml/PluggableSchemaResolver.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-
jar/org/springframework/beans/propertyeditors/StringArrayPropertyEditor.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-
jar/org/springframework/beans/factory/xml/DelegatingEntityResolver.java
*
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jar/org/springframework/beans/factory/config/BeanPostProcessor.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-
jar/org/springframework/beans/factory/xml/BeansDtdResolver.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-
jar/org/springframework/beans/propertyeditors/CustomCollectionEditor.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-
jar/org/springframework/beans/propertyeditors/UUIDEditor.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-
jar/org/springframework/beans/propertyeditors/CustomMapEditor.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-
jar/org/springframework/beans/PropertyBatchUpdateException.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-
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*/
/**
  * Process the given {@link RegisteredBean} instance ahead-of-time and
  * return a contribution or {@code null}.
  * <p>
  * Processors are free to use any techniques they like to analyze the given
```

```
 * instance. Most typically use reflection to find fields or methods to use
 * in the contribution. Contributions
typically generate source code or
 * resource files that can be used when the AOT optimized application runs.
 * <p>
 * If the given instance isn't relevant to the processor, it should return a
 * {@code null} contribution.
 * @param registeredBean the registered bean to process
 * @return a {@link BeanRegistrationAotContribution} or {@code null}
 */
```

Found in path(s):
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/aot/BeanRegistrationAotProcessor.java
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* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/UnsatisfiedDependencyException.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/aot/BeanRegistrationExcludeFilter.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/PropertyAccessor.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/annotation/BeanFactoryAnnotationUtils.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/propertyeditors/CurrencyEditor.java
*
 /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/support/PropertiesBeanDefinitionReader.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/AbstractPropertyAccessor.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/config/PropertyResourceConfigurer.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/BeanFactoryUtils.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/propertyeditors/CharsetEditor.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/config/ConfigurableListableBeanFactory.java
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* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/aot/BeanRegistrationCode.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/support/SimpleAutowireCandidateResolver.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/propertyeditors/TimeZoneEditor.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/aot/AutowiredArguments.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/aot/BeanFactoryInitializationAotContribution.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/aot/BeanFactoryInitializationCode.java
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* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/support/ManagedMap.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/support/BeanDefinitionOverrideException.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/aot/BeanRegistrationsCode.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/support/ManagedSet.java
* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/support/AutowireCandidateResolver.java
*
/opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/support/ManagedList.java
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* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/FactoryBean.java
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* /opt/cola/permits/2249663883_1730323726.878213/0/spring-beans-6-1-14-sources-1-jar/org/springframework/beans/factory/parsing/QualifierEntry.java
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jar/org/springframework/beans/factory/parsing/BeanEntry.java
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jar/org/springframework/beans/factory/support/BeanDefinitionReaderUtils.java
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jar/org/springframework/beans/factory/config/MapFactoryBean.java
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jar/org/springframework/beans/factory/support/BeanNameGenerator.java
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1.5412 et-xmlfile 2.0.0

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This module includes corrections and new features as follows:
- Correct handling of attributes namespaces when a default namespace
 has been registered.
- Records the namespaces for an Element during parsing and utilises them to
 allow inspection of namespaces at specific elements in the xml tree and
 during serialisation.

Misc:
- Includes the test_xml_etree with small modifications for testing the
 modifications in this package.

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch
Centrum (CWI, see https://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see https://opensource.org for
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but not all, Python
releases have also been GPL-compatible; the table below summarizes
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
because its license has a choice of law clause. According to
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Thanks to the many outside volunteers who have worked under Guido's
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```
package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
 Plugin     string
 Option     string
 Severity   string // 'deprecated', 'removed', or 'unsupported'
 ReplacedBy string
 Additional string
 Version    string
}

func (n *Notice) ToString() string {
 s := ""
 if n.Option == "" {
```

```
 s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
 } else {
 s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
 }
 if n.Severity == SevUnsupported {
 s += "is unsupported by this migration tool in " + n.Version + "."
 } else if n.Severity == SevNewDefault {
 s += "is added as a default in " + n.Version + "."
 } else {
 s += "is " + n.Severity + " in " + n.Version + "."
 }
 if n.ReplacedBy != "" {
 s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
 }
 if n.Additional != "" {
 s += " " + n.Additional
 }
 return s
}

const (
 // The following statuses are used to indicate the state of support/deprecation in a given release.
 SevDeprecated  = "deprecated"
  // deprecated, but still completely functional
 SevIgnored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
 SevRemoved     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present
in the Corefile
 SevNewDefault  = "newdefault"  // added to the default corefile.  CoreDNS may not function properly if it is not
present in the corefile.
 SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool

 // The following statuses are used for selecting/filtering notifications
 SevAll = "all" // show all statuses
)
```

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import (
 "github.com/vmware/govmomi/vim25/methods"
 "github.com/vmware/govmomi/vim25/mo"
 "github.com/vmware/govmomi/vim25/soap"
 "github.com/vmware/govmomi/vim25/types"
)

```
// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
 LicenseKey: "00000-00000-00000-00000-00000",
 EditionKey: "eval",
 Name:       "Evaluation Mode",
 Properties: []types.KeyAnyValue{
  {
   Key: "feature",
   Value: types.KeyValue{
    Key:   "serialuri:2",
    Value: "Remote virtual Serial Port Concentrator",
   },
  },
  {
   Key: "feature",
   Value: types.KeyValue{
    Key:   "dvs",
    Value: "vSphere Distributed Switch",
   },
  },
 },
}

type LicenseManager struct {
 mo.LicenseManager
}

func (m *LicenseManager) init(r *Registry) {
 m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}

 if
 r.IsVPX() {
  am := Map.Put(&LicenseAssignmentManager{}).Reference()
  m.LicenseAssignmentManager = &am
 }
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
 body := &methods.AddLicenseBody{
  Res: &types.AddLicenseResponse{},
 }

 for _, license := range m.Licenses {
  if license.LicenseKey == req.LicenseKey {
   body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
   return body
  }
 }
```

```
 m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
  LicenseKey: req.LicenseKey,
  Labels:     req.Labels,
 })

 body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

 return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
 body := &methods.RemoveLicenseBody{
  Res: &types.RemoveLicenseResponse{},
 }

 for i, license := range m.Licenses {
  if req.LicenseKey == license.LicenseKey {
   m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...)
   return body
  }
 }
 return
 body
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
 body := &methods.UpdateLicenseLabelBody{}

 for i := range m.Licenses {
  license := &m.Licenses[i]

  if req.LicenseKey != license.LicenseKey {
   continue
  }

  body.Res = new(types.UpdateLicenseLabelResponse)

  for j := range license.Labels {
   label := &license.Labels[j]

   if label.Key == req.LabelKey {
    if req.LabelValue == "" {
     license.Labels = append(license.Labels[:i], license.Labels[i+1:]...)
    } else {
     label.Value = req.LabelValue
    }
    return body
```

```
  }
 }

 license.Labels = append(license.Labels, types.KeyValue{
  Key:   req.LabelKey,
  Value: req.LabelValue,
 })

 return body
}

body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
return body
}

type LicenseAssignmentManager struct {
mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault
{
body := &methods.QueryAssignedLicensesBody{
 Res: &types.QueryAssignedLicensesResponse{},
}

// EntityId can be a HostSystem or the vCenter InstanceUuid
if req.EntityId != "" {
 if req.EntityId != Map.content().About.InstanceUuid {
  id := types.ManagedObjectReference{
   Type:  "HostSystem",
   Value: req.EntityId,
  }

  if Map.Get(id) == nil {
   return body
  }
 }
}

body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
 {
  EntityId:        req.EntityId,
  AssignedLicense: EvalLicense,
 },
}

return body
}
```

```
func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
 info := EvalLicense

 info.LicenseKey = key
 info.Labels = labels

 return info
}
```

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==========

The common/types/pb/equal.go modification of proto.Equal logic

==========

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==========
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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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iconv (Charset Conversion Library) v2.0

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Version 3.1, 31 March 2009

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1.5420 nghttp2 1.64.0-r0

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1.5421 x-text 0.19.0

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```
package notify

import (
 "fmt"
 "strings"
)

// FilePermission is a bit-mask of apparmor permissions in relation to files.
// It is applicable to messages with the class of AA_CLASS_FILE.
type FilePermission uint32

const (
 // AA_MAY_EXEC implies that a process has a permission to execute another
 // program. The specific details of the program are not conveyed.
 AA_MAY_EXEC FilePermission = 1 << iota
 // AA_MAY_WRITE implies that a process may write to a file or socket, or
 // may modify directory contents.
 AA_MAY_WRITE
 // AA_MAY_READ implies that a process may read from a file or socket, or
 // may enumerate directory contents.
 AA_MAY_READ
 // AA_MAY_APPEND implies that a process may open a file in append mode.
 AA_MAY_APPEND
 // AA_MAY_CREATE implies that a process may create a new file.
 AA_MAY_CREATE
 // AA_MAY_DELETE implies that a process may delete a file, directory,
 // symbolic link or socket.
 AA_MAY_DELETE
 // AA_MAY_OPEN implies that a process may open a file or directory.
 The
 // additional presence of AA_MAY_WRITE or AA_MAY_READ grants specific type
 // of access.
 AA_MAY_OPEN
 // AA_MAY_RENAME implies that a process may rename a file.
 AA_MAY_RENAME
 // AA_MAY_SETATTR is not checked by the kernel.
 AA_MAY_SETATTR
```

```
 // AA_MAY_GETATTR is not checked by the kernel.
 AA_MAY_GETATTR
 // AA_MAY_SETCRED is not used in the kernel.
 AA_MAY_SETCRED
 // AA_MAY_GETCRED is not used in the kernel.
 AA_MAY_GETCRED
 // AA_MAY_CHMOD implies that a process may change UNIX file permissions.
 AA_MAY_CHMOD
 // AA_MAY_CHOWN implies that a process may change file ownership.
 AA_MAY_CHOWN
 // AA_MAY_CHGRP implies that a process may change the group ownership of a
 // file. The C-level macro is not defined in any userspace header but is
 // already supported and reported by the kernel.
 AA_MAY_CHGRP
 // AA_MAY_LOCK implies that a process may perform fcntl locking operations
 // on a file.
 AA_MAY_LOCK
 // AA_EXEC_MMAP implies that a process may execute code from an page
 //
 memory-mapped from a file.
 AA_EXEC_MMAP

 // There are additional permissions defined in the kernel but it seems some
 // of those are unused and their exact scope and meaning is unclear.

 // AA_MAY_LINK implies that a process may create a hard link. Their
 // associated file information describes the hard link name, not the
 // original file.
 AA_MAY_LINK FilePermission = 1 << 18
 // AA_MAY_ONEXEC implies that a process may change the apparmor profile on
 // the next exec call.
 AA_MAY_ONEXEC FilePermission = 1 << 29
 // AA_MAY_CHANGE_PROFILE implies that a process may change the apparmor
 // profile on demand.
 AA_MAY_CHANGE_PROFILE FilePermission = 1 << 30
)

const filePermissionMask = (AA_MAY_EXEC | AA_MAY_WRITE | AA_MAY_READ |
 AA_MAY_APPEND | AA_MAY_CREATE | AA_MAY_DELETE | AA_MAY_OPEN |
 AA_MAY_RENAME | AA_MAY_SETATTR | AA_MAY_GETATTR | AA_MAY_SETCRED |
 AA_MAY_GETCRED | AA_MAY_CHMOD | AA_MAY_CHOWN | AA_MAY_CHGRP |
 AA_MAY_LOCK | AA_EXEC_MMAP | AA_MAY_LINK | AA_MAY_ONEXEC |
 AA_MAY_CHANGE_PROFILE)

//
 String returns readable representation of the file permission value.
func (p FilePermission) String() string {
 frags := make([]string, 0, 21)
```

```
if p&AA_MAY_EXEC != 0 {
 frags = append(frags, "execute")
}
if p&AA_MAY_WRITE != 0 {
 frags = append(frags, "write")
}
if p&AA_MAY_READ != 0 {
 frags = append(frags, "read")
}
if p&AA_MAY_APPEND != 0 {
 frags = append(frags, "append")
}
if p&AA_MAY_CREATE != 0 {
 frags = append(frags, "create")
}
if p&AA_MAY_DELETE != 0 {
 frags = append(frags, "delete")
}
if p&AA_MAY_OPEN != 0 {
 frags = append(frags, "open")
}
if p&AA_MAY_RENAME != 0 {
 frags = append(frags, "rename")
}
if p&AA_MAY_SETATTR != 0 {
 frags = append(frags, "set-attr")
}
if p&AA_MAY_GETATTR != 0 {
 frags = append(frags, "get-attr")
}
if p&AA_MAY_SETCRED != 0 {
 frags = append(frags, "set-cred")
}
if p&AA_MAY_GETCRED != 0 {
 frags = append(frags, "get-cred")
}
if p&AA_MAY_CHMOD != 0 {
 frags = append(frags, "change-mode")
}
if
p&AA_MAY_CHOWN != 0 {
 frags = append(frags, "change-owner")
}
if p&AA_MAY_CHGRP != 0 {
 frags = append(frags, "change-group")
}
if p&AA_MAY_LOCK != 0 {
 frags = append(frags, "lock")
```

```
 }
 if p&AA_EXEC_MMAP != 0 {
  frags = append(frags, "execute-map")
 }
 if p&AA_MAY_LINK != 0 {
  frags = append(frags, "link")
 }
 if p&AA_MAY_ONEXEC != 0 {
  frags = append(frags, "change-profile-on-exec")
 }
 if p&AA_MAY_CHANGE_PROFILE != 0 {
  frags = append(frags, "change-profile")
 }
 if residue := p &^ filePermissionMask; residue != 0 {
  frags = append(frags, fmt.Sprintf("%#x", uint(residue)))
 }
 if len(frags) == 0 {
  return "none"
 }
 return strings.Join(frags, "|")
}

// IsValid returns true if the given file permission contains only known bits set.
func (p FilePermission) IsValid() bool {
 return p & ^filePermissionMask == 0
}
```

Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: snappy
Source: https://github.com/snapcore/snapd

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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```
// -*- Mode: Go; indent-tabs-mode: t -*-

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* but WITHOUT ANY WARRANTY; without even the implied warranty of
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
* GNU General Public License for more details.
*
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* along with this program.  If not, see <http://www.gnu.org/licenses/>.
*
*/

package spdx

// From https://spdx.org/licenses/
// data files: https://github.com/spdx/license-list-data
// Version: 3.11 2020-11-25
//
// jq < json/licenses.json '.licenses | .[] | select(.isOsiApproved == true) | .licenseId' | sort | sed -e 's/$/,/'
//
//nolint:unused
var osi = []string{
 "0BSD",
 "AAL",
 "AFL-1.1",
 "AFL-1.2",
 "AFL-2.0",
 "AFL-2.1",
 "AFL-3.0",
 "AGPL-3.0",
 "AGPL-3.0-only",
 "AGPL-3.0-or-later",
 "Apache-1.1",
 "Apache-2.0",
 "APL-1.0",
 "APSL-1.0",
 "APSL-1.1",
 "APSL-1.2",
 "APSL-2.0",
 "Artistic-1.0",
 "Artistic-1.0-cl8",
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"Artistic-1.0-Perl",
"Artistic-2.0",
"BSD-1-Clause",
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"BSD-3-Clause",
"BSD-3-Clause-LBNL",
"BSL-1.0",
"CAL-1.0",
"CAL-1.0-Combined-Work-Exception",
"CATOSL-1.1",
"CDDL-1.0",
"CECILL-2.1",
"CNRI-Python",
"CPAL-1.0",
"CPL-1.0",
"CUA-OPL-1.0",
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"EFL-2.0",
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"EPL-1.0",
"EPL-2.0",
"EUDatagrid",
"EUPL-1.1",
"EUPL-1.2",
"Fair",
"Frameworx-1.0",
"GPL-2.0",
"GPL-2.0+",
"GPL-2.0-only",
"GPL-2.0-or-later",
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"GPL-3.0-only",
"GPL-3.0-or-later",
"GPL-3.0-with-GCC-exception",
"HPND",
"Intel",
"IPA",
"IPL-1.0",
"ISC",
"LGPL-2.0",
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"LGPL-2.1+",
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"LGPL-2.1-or-later",
"LGPL-3.0",
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"LGPL-3.0-only",
"LGPL-3.0-or-later",
"LiLiQ-P-1.1",
"LiLiQ-R-1.1",
"LiLiQ-Rplus-1.1",
"LPL-1.0",
"LPL-1.02",
"LPPL-1.3c",
"MirOS",
"MIT",
"MIT-0",
"Motosoto",
"MPL-1.0",
"MPL-1.1",
"MPL-2.0",
"MPL-2.0-no-copyleft-exception",
"MS-PL",
"MS-RL",
"MulanPSL-2.0",
"Multics",
"NASA-1.3",
"Naumen",
"NCSA",
"NGPL",
"Nokia",
"NPOSL-3.0",
"NTP",
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 "SPL-1.0",
 "UCL-1.0",
 "Unicode-DFS-2016",
 "Unlicense",
 "UPL-1.0",
 "VSL-1.0",
 "W3C",
 "Watcom-1.0",
 "Xnet",
 "Zlib",
 "ZPL-2.0",
}

//
 using SPDX license data:
// jq < json/licenses.json '.licenses | .[] | .licenseId' | sort | sed -e 's/$/,/'
var allLicenses = []string{
 "0BSD",
 "AAL",
 "Abstyles",
 "Adobe-2006",
 "Adobe-Glyph",
 "ADSL",
 "AFL-1.1",
 "AFL-1.2",
 "AFL-2.0",
 "AFL-2.1",
 "AFL-3.0",
 "Afmparse",
 "AGPL-1.0",
 "AGPL-1.0-only",
 "AGPL-1.0-or-later",
 "AGPL-3.0",
 "AGPL-3.0-only",
 "AGPL-3.0-or-later",
 "Aladdin",
 "AMDPLPA",
 "AML",
 "AMPAS",
 "ANTLR-PD",
 "ANTLR-PD-fallback",
```

"Apache-1.0",
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"APAFML",
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"Artistic-1.0-Perl",
"Artistic-2.0",
"Bahyph",
"Barr",
"Beerware",
"BitTorrent-1.0",
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"blessing",
"BlueOak-1.0.0",
"Borceux",
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"BSD-2-Clause",
"BSD-2-Clause-FreeBSD",
"BSD-2-Clause-NetBSD",
"BSD-2-Clause-Patent",
"BSD-2-Clause-Views",
"BSD-3-Clause",
"BSD-3-Clause-Attribution",
"BSD-3-Clause-Clear",
"BSD-3-Clause-LBNL",
"BSD-3-Clause-No-Nuclear-License",
"BSD-3-Clause-No-Nuclear-License-2014",
"BSD-3-Clause-No-Nuclear-Warranty",
"BSD-3-Clause-Open-MPI",
"BSD-4-Clause",
"BSD-4-Clause-UC",
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"CATOSL-1.1",
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"CC-BY-3.0",
"CC-BY-3.0-AT",
"CC-BY-3.0-US",
"CC-BY-4.0",
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"CECILL-2.0",
"CECILL-2.1",
"CECILL-B",
"CECILL-C",
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"GFDL-1.1-or-later",
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"GFDL-1.2-or-later",
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"LGPL-3.0-only",
"LGPL-3.0-or-later",
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"LiLiQ-R-1.1",
"LiLiQ-Rplus-1.1",
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"LPPL-1.2",
"LPPL-1.3a",
"LPPL-1.3c",
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"MirOS",
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"MIT-0",
"MIT-advertising",
"MIT-CMU",
"MIT-enna",
"MIT-feh",
"MITNFA",
"MIT-open-group",
"Motosoto",
"mpich2",
"MPL-1.0",
"MPL-1.1",
"MPL-2.0",
"MPL-2.0-no-copyleft-exception",
"MS-PL",
"MS-RL",
"MTLL",
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"MulanPSL-2.0",
"Multics",
"Mup",
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"Naumen",
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"NCGL-UK-2.0",
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"Net-SNMP",
"Newsletr",
"NGPL",
"NIST-PD",
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"Noweb",
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"OGL-UK-1.0",
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"OLDAP-1.4",
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"Parity-7.0.0",
"PDDL-1.0",
"PHP-3.0",

"PHP-3.01",
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"PolyForm-Noncommercial-1.0.0",
"PolyForm-Small-Business-1.0.0",
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"psutils",
"Python-2.0",
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"QPL-1.0",
"Rdisc",
"RHeCos-1.1",
"RPL-1.1",
"RPL-1.5",
"RPSL-1.0",
"RSA-MD",
"RSCPL",
"Ruby",
"Saxpath",
"SAX-PD",
"SCEA",
"Sendmail",
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"SGI-B-2.0",
"SHL-0.5",
"SHL-0.51",
"SimPL-2.0",
"SISSL",
"SISSL-1.2",
"Sleepycat",
"SMLNJ",
"SMPPL",
"SNIA",
"Spencer-86",
"Spencer-94",
"Spencer-99",
"SPL-1.0",
"SSH-OpenSSH",
"SSH-short",
"SSPL-1.0",
"StandardML-NJ",
"SugarCRM-1.1.3",
"SWL",
"TAPR-OHL-1.0",
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 "TMate",
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 "TU-Berlin-1.0",
 "TU-Berlin-2.0",
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 "Unicode-DFS-2015",
 "Unicode-DFS-2016",
 "Unicode-TOU",
 "Unlicense",
 "UPL-1.0",
 "Vim",
 "VOSTROM",
 "VSL-1.0",
 "W3C",
 "W3C-19980720",
 "W3C-20150513",
 "Watcom-1.0",
 "Wsuipa",
 "WTFPL",
 "wxWindows",
 "X11",
 "Xerox",
 "XFree86-1.1",
 "xinetd",
 "Xnet",
 "xpp",
 "XSkat",
 "YPL-1.0",
 "YPL-1.1",
 "Zed",
 "Zend-2.0",
 "Zimbra-1.3",
 "Zimbra-1.4",
 "Zlib",
 "zlib-acknowledgement",
 "ZPL-1.1",
 "ZPL-2.0",
 "ZPL-2.1",

 //
 FIXME: non SPDX licenses that the snapstore uses
 "Proprietary",
}

// from
https://www.google.com/url?q=https://docs.google.com/a/s.sfusd.edu/document/d/1wE_zvLU4c291ACi9wIJmQoE
```

4ltKRW4rzM1TYiIvEVOs/edit?pli%3D1%23heading%3Dh.ruv3yl8g6czd&sa=D&ust=1473291615601000&usg=AFQjCNFyLcPLdEarX1TOesGWxg9Afb57mA

```
var
 licenseExceptions = []string{
 "Autoconf-exception-2.0",
 "Autoconf-exception-3.0",
 "Bison-exception-2.2",
 "Classpath-exception-2.0",
 "eCos-exception-2.0",
 "Font-exception-2.0",
 "GCC-exception-2.0",
 "GCC-exception-3.1",
 "WxWindows-exception-3.1",
}
```

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Version 3, 29 June 2007

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1.5431 junit-platform-engine 1.10.5

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1.5432 toml 1.4.0

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1.5434 go-openapi 0.28.0

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1.5435 @grafana-plugins/grafana-azure-monitor-datasource 10.3.10

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1.5436 ulikunitz-xz 0.5.12

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```
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package main

import (
 "bufio"
 "bytes"
 "flag"
 "fmt"
 "io"
 "log"
 "os"
 "path/filepath"
 "strings"
)

const crUsageString = `xb copyright [options] <path>....

The xb copyright command adds a copyright remark to all go files below path.

 -h  prints this message and exits
`

func crUsage(w io.Writer) {
 fmt.Fprint(w, crUsageString)
}

const copyrightText = `
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`

func goComment(text string) string {
 buf := new(bytes.Buffer)
 scanner := bufio.NewScanner(strings.NewReader(text))
 var err error
 for scanner.Scan() {
  s := strings.TrimSpace(scanner.Text())
  if len(s) == 0 {
   continue
```

```
 }
 if _, err = fmt.Fprintln(buf, "//", s); err != nil {
  panic(err)
 }
}
if err
= scanner.Err(); err != nil {
 panic(err)
}
if _, err = fmt.Fprintln(buf); err != nil {
 panic(err)
}
return buf.String()
}

var goCopyright = goComment(copyrightText)

func addCopyright(path string) (err error) {
 log.Printf("adding copyright to %s", path)
 src, err := os.Open(path)
 if err != nil {
  return err
 }
 defer func() {
  cerr := src.Close()
  if cerr != nil && err == nil {
   err = cerr
  }
 }()
 newPath := path + ".new"
 dst, err := os.Create(newPath)
 if err != nil {
  return err
 }
 defer func() {
  cerr := dst.Close()
  if cerr != nil && err == nil {
   err = cerr
  }
 }()
 out := bufio.NewWriter(dst)
 fmt.Fprint(out, goCopyright)
 scanner := bufio.NewScanner(src)
 line := 0
 del := false
 for scanner.Scan() {
  line++
  txt := scanner.Text()
```

```
 if line == 1 && strings.Contains(txt, "Copyright") {
  del = true
  continue
 }
 if del {
  s := strings.TrimSpace(txt)
  if len(s) == 0 {
   del = false
  }
  continue
 }
 fmt.Fprintln(out, txt)
}
if err = scanner.Err();
err != nil {
 return err
}
if err = out.Flush(); err != nil {
 return
}
err = os.Rename(newPath, path)
return
}

func walkCopyrights(path string, info os.FileInfo, err error) error {
 if err != nil {
  return err
 }
 if info.IsDir() {
  return nil
 }
 if !strings.HasSuffix(info.Name(), ".go") {
  return nil
 }
 return addCopyright(path)
}

func copyright() {
 cmdName := os.Args[0]
 log.SetPrefix(fmt.Sprintf("%s: ", cmdName))
 log.SetFlags(0)

 flag.CommandLine = flag.NewFlagSet(cmdName, flag.ExitOnError)
 flag.Usage = func() { crUsage(os.Stderr); os.Exit(1) }

 help := flag.Bool("h", false, "")

 flag.Parse()
```

```
 if *help {
  crUsage(os.Stdout)
  os.Exit(0)
 }

 for _, path := range flag.Args() {
  fi, err := os.Stat(path)
  if err != nil {
   log.Print(err)
   continue
  }
  if !fi.IsDir() {
   log.Printf("%s is not a directory", path)
   continue
  }
  if err = filepath.Walk(path, walkCopyrights); err != nil {
   log.Fatalf("%s error %s", path, err)
  }
 }
}
```

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`

1.5437 x-sys 0.24.0

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1.5438 ngx-bootstrap 18.0.0

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1.5439 @grafana-plugins/grafana-testdata-datasource 10.3.10

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1.5441 @grafana-plugins/input-datasource 10.3.10

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1.5444 ory-fosite 0.47.0

1.5444.1 Available under license :

```
name: Licenses

on:
 pull_request:
 push:
   branches:
     - main
     - master

jobs:
 check:
   runs-on: ubuntu-latest
   steps:
     - uses: actions/checkout@v2
     - uses: actions/setup-go@v2
       with:
         go-version: "1.21"
     - uses: actions/setup-node@v2
       with:
         node-version: "18"
     - run: make licenses
```

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1.5445 ory-x 0.0.649

1.5445.1 Available under license :

name: Licenses

on:
pull_request:

```
 push:
   branches:
     - main
     - master

jobs:
 check:
   runs-on: ubuntu-latest
   steps:
     - uses: actions/checkout@v2
     - uses: actions/setup-go@v2
       with:
         go-version: "1.22"
     - uses: actions/setup-node@v2
       with:
         node-version: "18"
     - run: make licenses
```

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```
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package configx

import (
 "os"
 "os/user"
 "strconv"
)

type UnixPermission struct {
 Owner string
 Group string
```

```
 Mode  os.FileMode
}

func (p *UnixPermission) SetPermission(file string) error {
 var e error
 e = os.Chmod(file, p.Mode)
 if e != nil {
  return e
 }

 gid := -1
 uid := -1

 if p.Owner != "" {
  var userObj *user.User
  userObj, e = user.Lookup(p.Owner)
  if e != nil {
   return e
  }
  uid, e = strconv.Atoi(userObj.Uid)
  if e != nil {
   return e
  }
 }
 if p.Group != "" {
  var group *user.Group
  group, e := user.LookupGroup(p.Group)
  if e != nil {
   return e
  }
  gid, e = strconv.Atoi(group.Gid)
  if e != nil {
   return e
  }
 }

 e = os.Chown(file, uid, gid)
 if e != nil {
  return e
 }
 return nil
}
```

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1.5446 x-crypto 0.26.0

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1.5447 x-net 0.28.0

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1.5448 grpc-go 1.64.1

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Go support for Protocol Buffers - Google's data interchange format
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Support for streaming Protocol Buffer messages for the Go language (golang).
https://github.com/matttproud/golang_protobuf_extensions
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1.5450 go-oidc 3.10.0

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1.5451 klauspost-compress 1.17.9

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1.5454 jackson 2.17.3

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Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

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It is currently developed by a community of developers.

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ASN.1 library for Python

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This is a free and open source implementation of ASN.1 types and codecs
as a Python package. It has been first written to support particular
protocol (SNMP) but then generalized to be suitable for a wide range
of protocols based on
[ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-
E&type=items).

NOTE:
 The package is now maintained by *Christian Heimes* and
Simon Pichugin in project https://github.com/pyasn1/pyasn1.

Features
---

* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Can operate on streams of serialized data
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 3.8+
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1

ASN.1 solves the data serialisation problem. This solution was
designed long ago by the wise Ancients. Back then, they did not
have the luxury of wasting bits. That is why ASN.1 is designed
to serialise data structures of unbounded complexity into
something compact and efficient when it comes to processing
the data.

That probably explains why many network protocols and file formats
still rely on the 30+ years old technology.
 Including a number of
high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1.
[Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html)
by Olivier Dubuisson is one of those high quality books freely
available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```bash
Record ::= SEQUENCE {
 id        INTEGER,
 room  [0] INTEGER OPTIONAL,
 house [1] INTEGER DEFAULT 0
}
```

Could be expressed in pyasn1 like this:

```python
class Record(Sequence):
   componentType = NamedTypes(
       NamedType('id', Integer()),
       OptionalNamedType(
           'room', Integer().subtype(
              implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
           )
       ),
       DefaultedNamedType(
           'house', Integer(0).subtype(
              implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
           )
       )
   )
```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
```

```
>>> str(record)
Record:
id=123
room=321
>>>
```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000:
 30 07 02 01 7B 80 02 01 41
```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>>    print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
```

```
{'id': 123, 'room': 321,
 'house': 0}
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of
Python objects:

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
>>>
```

With ASN.1 design, serialisation codecs are decoupled from data objects,
so you could turn every single ASN.1 object into many different
serialised forms. As of this moment, pyasn1 supports BER, DER, CER and
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More information on pyasn1 APIs can be found in the
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compiled ASN.1 modules for different protocols and file formats
could be found in the pyasn1-modules
[repo](https://github.com/pyasn1/pyasn1-modules).

How to get pyasn1

The pyasn1 package is distributed under terms and conditions
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BSD [license](https://pyasn1.readthedocs.io/en/latest/license.html). Source code is freely
available as a GitHub [repo](https://github.com/pyasn1/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.org/project/pyasn1).

If something does not work as expected,
[open an issue](https://github.com/epyasn1/pyasn1/issues) at GitHub or
post your question [on Stack Overflow](https://stackoverflow.com/questions/ask)
or try browsing pyasn1
[mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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Found in path(s):
* /opt/cola/permits/2258937315_1731078979.9281967/0/pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/README.md
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Metadata-Version: 2.1
Name: pyasn1
Version: 0.6.1
Summary: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)
Home-page: https://github.com/pyasn1/pyasn1
Author: Ilya Etingof
Author-email: etingof@gmail.com
Maintainer: pyasn1 maintenance organization
Maintainer-email: Christian Heimes <christian@python.org>
License: BSD-2-Clause
Project-URL: Documentation, https://pyasn1.readthedocs.io
Project-URL: Source, https://github.com/pyasn1/pyasn1
Project-URL: Issues, https://github.com/pyasn1/pyasn1/issues
Project-URL: Changelog, https://pyasn1.readthedocs.io/en/latest/changelog.html
Platform: any
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: Education
Classifier: Intended Audience :: Information Technology
Classifier: Intended Audience :: System Administrators
Classifier: Intended Audience
 :: Telecommunications Industry
Classifier: License :: OSI Approved :: BSD License
Classifier: Natural Language :: English
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.8
Classifier: Programming Language :: Python :: 3.9
Classifier: Programming Language :: Python :: 3.10
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Classifier: Programming Language :: Python :: 3.12
Classifier: Programming Language :: Python :: 3.13
Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy
Classifier: Topic :: Communications
Classifier: Topic :: Software Development :: Libraries :: Python Modules
Requires-Python: >=3.8
Description-Content-Type: text/markdown
License-File: LICENSE.rst

ASN.1 library for Python

[![PyPI](https://img.shields.io/pypi/v/pyasn1.svg?maxAge=2592000)](https://pypi.org/project/pyasn1)
[![Python
 Versions](https://img.shields.io/pypi/pyversions/pyasn1.svg)](https://pypi.org/project/pyasn1/)
[![Build
status](https://github.com/pyasn1/pyasn1/actions/workflows/main.yml/badge.svg)](https://github.com/pyasn1/pyasn1/actions/workflows/main.yml)
[![Coverage
Status](https://img.shields.io/codecov/c/github/pyasn1/pyasn1.svg)](https://codecov.io/github/pyasn1/pyasn1)
[![GitHub license](https://img.shields.io/badge/license-BSD-blue.svg)](https://raw.githubusercontent.com/pyasn1/pyasn1/master/LICENSE.txt)

This is a free and open source implementation of ASN.1 types and codecs
as a Python package. It has been first written to support particular
protocol (SNMP) but then generalized to be suitable for a wide range
of protocols based on
[ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

NOTE: The package is now maintained by *Christian Heimes* and
Simon Pichugin in project https://github.com/pyasn1/pyasn1.

Features
---

*
 Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Can operate on streams of serialized data
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 3.8+
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1

ASN.1 solves the data serialisation problem. This solution was
designed long ago by the wise Ancients. Back then, they did not
have the luxury of wasting bits. That is why ASN.1 is designed
to serialise data structures of unbounded complexity into
something compact and efficient when it comes to processing
the data.

That probably explains why many network protocols and file formats
still rely on the 30+ years old technology. Including a number of
high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1.

[Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html)
by
Olivier Dubuisson is one of those high quality books freely
available on the Internet.

The pyasn1 package is designed to help Python programmers tackling
network protocols and file formats at the comfort of their Python
prompt. The tool struggles to capture all aspects of a rather
complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

With pyasn1 you can build Python objects from ASN.1 data structures.
For example, the following ASN.1 data structure:

```bash
Record ::= SEQUENCE {
 id       INTEGER,
 room  [0] INTEGER OPTIONAL,
 house [1] INTEGER DEFAULT 0
}
```

Could be expressed in pyasn1 like this:

```python
class Record(Sequence):
  componentType = NamedTypes(
     NamedType('id', Integer()),
     OptionalNamedType(
        'room', Integer().subtype(
           implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
        )
     ),
     DefaultedNamedType(
        'house', Integer(0).subtype(
            implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
        )
     )
  )
```

It is in the spirit of ASN.1 to take abstract data description
and turn it into a programming language specific form.
Once you have your ASN.1 data structure expressed in Python, you
can use it along the lines of similar Python type (e.g. ASN.1
`SET` is similar to Python `dict`, `SET OF` to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send
back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>>    print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1

classes into Python built-ins:

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of
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Record:
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```

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* /opt/cola/permits/2258937315_1731078979.9281967/0/pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1.egg-info/PKG-INFO
No license file was found, but licenses were detected in source scan.

```
[metadata]
name = pyasn1
version = attr: pyasn1.__version__
description = Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)
long_description = file: README.md
long_description_content_type = text/markdown
license = BSD-2-Clause
license_files = LICENSE.rst
url = https://github.com/pyasn1/pyasn1
author = Ilya Etingof
author_email = etingof@gmail.com
maintainer = pyasn1 maintenance organization
maintainer_email = Christian Heimes <christian@python.org>
project_urls =
 Documentation=https://pyasn1.readthedocs.io
 Source=https://github.com/pyasn1/pyasn1
 Issues=https://github.com/pyasn1/pyasn1/issues
 Changelog=https://pyasn1.readthedocs.io/en/latest/changelog.html
platforms = any
classifiers =
 Development Status :: 5 - Production/Stable
 Environment :: Console
 Intended Audience :: Developers
 Intended Audience :: Education
 Intended Audience :: Information Technology
 Intended Audience :: System
 Administrators
 Intended Audience :: Telecommunications Industry
 License :: OSI Approved :: BSD License
 Natural Language :: English
 Operating System :: OS Independent
 Programming Language :: Python :: 3
 Programming Language :: Python :: 3.8
 Programming Language :: Python :: 3.9
 Programming Language :: Python :: 3.10
 Programming Language :: Python :: 3.11
 Programming Language :: Python :: 3.12
```

```
 Programming Language :: Python :: 3.13
 Programming Language :: Python :: Implementation :: CPython
 Programming Language :: Python :: Implementation :: PyPy
 Topic :: Communications
 Topic :: Software Development :: Libraries :: Python Modules

[options]
python_requires = >=3.8
zip_safe = True
setup_requires = setuptools
packages =
 pyasn1
 pyasn1.type
 pyasn1.compat
 pyasn1.codec
 pyasn1.codec.ber
 pyasn1.codec.cer
 pyasn1.codec.der
 pyasn1.codec.native

[egg_info]
tag_build =
tag_date = 0
```

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```
.. _license:

License
=======

.. include:: ../../LICENSE.rst
```

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* /opt/cola/permits/2258937315_1731078979.9281967/0/pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/native/test_encoder.py
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* /opt/cola/permits/2258937315_1731078979.9281967/0/pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/docs/source/contents.rst

1.5458 pycparser 2.22

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-- vile: txtmode file-encoding=utf-8
Upstream source https://invisible-island.net/ncurses/ncurses-examples.html

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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1.5468 sphinx 7.2.6-6

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1.5469 wheel 0.42.0-2

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1.5470 node-jquery 3.6.1+dfsg+~3.5.14-1

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1.5471 python-dev 3.12.3-0ubuntu2

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This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org:/pub/python, based on the Debianization by the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final 2.3 version is released.

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National
Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same

year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes

2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes

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1.5472 libfakeroot 1.33-1

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1.5480 libheif-plugin-aomenc 1.17.6-1ubuntu4.1

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1.5481 libheif-plugin-aomdec 1.17.6-1ubuntu4.1

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1.5482 libtsan2 14.2.0-4ubuntu2~24.04

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1.5483 libgomp 14.2.0-4ubuntu2~24.04

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This is the Debian GNU/Linux prepackaged version of the GNU compiler collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C, Objective-C++, and Modula-2 compilers, documentation, and support libraries. In addition, Debian provides the gm2 compiler, either in the same source package, or built from a separate same source package. Packaging is done by the Debian GCC Maintainers <debian-gcc@lists.debian.org>, with sources obtained from:

ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)
svn://gcc.gnu.org/svn/gcc/ (for prereleases)
ftp://sourceware.org/pub/newlib/ (for newlib)
git://git.savannah.gnu.org/gm2.git (for Modula-2)

The current gcc-14 source package is taken from the git gcc-14-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

Language	Compiler package	Library package	Documentation
Ada	gnat-14	libgnat-14	gnat-14-doc
C	gcc-14		gcc-14-doc
C++	g++-14	libstdc++6	libstdc++6-14-doc
D	gdc-14		
Fortran 95	gfortran-14	libgfortran5	gfortran-14-doc
Go	gccgo-14	libgo0	
Objective C	gobjc-14	libobjc4	
Objective C++	gobjc++-14		
Modula-2	gm2-14	libgm2	
Rust	gccrs-14		

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

Language	Sources	Development	Debugging	Position-Independent
C++			libstdc++6-14-dbg	libstdc++6-14-pic
D	libphobos-14-dev			

Additional packages include:

All languages:
libgcc1, libgcc2, libgcc4

GCC intrinsics (platform-dependent)
gcc-14-base Base files common to all compilers
gcc-14-soft-float Software floating point (ARM only)
gcc-14-source The sources with patches

Ada:
libgnat-util14-dev, libgnat-util14 GNAT version library

C:
cpp-14, cpp-14-doc GNU C Preprocessor
libssp0-dev, libssp0 GCC stack smashing protection library
libquadmath0 Math routines for the __float128 type
fixincludes Fix non-ANSI header files

C, C++ and Fortran 95:
libgomp1-dev, libgomp1 GCC OpenMP (GOMP) support library
libitm1-dev, libitm1 GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can also run 64-bit code,
Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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- libatomic
- libdecnumber
- libgm2
- libgomp
- libgrust
- libitm
- libssp
- libstdc++-v3
- libobjc
- libgfortran
- The libgnat-14 Ada support library and libgnat-util14 library.
- Various config files in gcc/config/ used in runtime libraries.
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Written by Tobias Burnus <burnus@net-b.de>
Contributions by Ulrich Drepper <drepper@gnu.ai.mit.edu>

Conversion to long double by Jakub Jelinek <jj@ultra.linux.cz>

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libquadmath/math/

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sinq_kernel.c, truncq.c:
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libquadmath/math/isinfq.c:
Written by J.T. Conklin <jtc@netbsd.org>.
Change for long double by Jakub Jelinek <jj@ultra.linux.cz>
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libquadmath/math/log10q.c:
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copysignq.c, coshq.c, cosq.c, erfq.c, fabsq.c, finiteq.c, floorq.c,
fmodq.c, frexpq.c, hypotq.c, ilogbq.c, isnanq.c, jnq.c, ldexpq.c,
logbq.c, modfq.c, nearbyintq.c, nextafterq.c, powq.c, remainderq.c,
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D:
gdc-14 GNU D Compiler
libphobos-14-dev D standard runtime library

The D source package is made up of the following components.

The D front-end for GCC:
- d/*

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The DMD Compiler implementation of the D programming language:
- d/dmd/*

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The Zlib data compression library:
- zlib/*

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The Phobos standard runtime library:
- libphobos/*

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1.5485 python-pkg-resources 68.1.2-2ubuntu1.1

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1.5486 cpp-x86-64-linux-gnu 13.2.0-7ubuntu1

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This is the Debian GNU/Linux prepackaged version of the GNU compiler collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C, Objective-C++, and Modula-2 compilers, documentation, and support libraries. In addition, Debian provides the gm2 compiler, either in the same source package, or built from a separate same source package. Packaging is done by the Debian GCC Maintainers <debian-gcc@lists.debian.org>, with sources obtained from:

```
ftp://gcc.gnu.org/pub/gcc/releases/  (for full releases)
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```

The current gcc-13 source package is taken from the git gcc-13-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

Language	Compiler package	Library package	Documentation
Ada	gnat-13	libgnat-13	gnat-13-doc
C	gcc-13		gcc-13-doc
C++	g++-13	libstdc++6	libstdc++6-13-doc
D	gdc-13		
Fortran 95	gfortran-13	libgfortran5	gfortran-13-doc
Go	gccgo-13	libgo0	
Objective C	gobjc-13	libobjc4	
Objective C++	gobjc++-13		
Modula-2	gm2-13	libgm2	

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

Language	Sources	Development	Debugging	Position-Independent
C++			libstdc++6-13-dbg	libstdc++6-13-pic
D		libphobos-13-dev		

Additional packages include:

All languages:
libgcc1, libgcc2, libgcc4 GCC intrinsics (platform-dependent)
gcc-13-base

Base files common to all compilers
gcc-13-soft-float Software floating point (ARM only)
gcc-13-source The sources with patches

Ada:
libgnat-util13-dev, libgnat-util13 GNAT version library

C:
cpp-13, cpp-13-doc GNU C Preprocessor
libssp0-dev, libssp0 GCC stack smashing protection library
libquadmath0 Math routines for the __float128 type
fixincludes Fix non-ANSI header files

C, C++ and Fortran 95:
libgomp1-dev, libgomp1 GCC OpenMP (GOMP) support library
libitm1-dev, libitm1 GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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- libitm
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D:
gdc-13 GNU D Compiler
libphobos-13-dev D standard runtime library

The D source package is made up of the following components.

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- d/*

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The DMD Compiler implementation of the D programming language:
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The Zlib data compression library:
- d/phobos/etc/c/zlib/*

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The Phobos standard runtime library:
- d/phobos/*

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Version 3.1, 31 March 2009

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GCC RUNTIME LIBRARY EXCEPTION

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iconv (Charset Conversion Library) v2.0

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1.5488 g++-x86-64-linux-gnu 13.2.0-7ubuntu1

1.5488.1 Available under license :

This is the Debian GNU/Linux prepackaged version of the GNU compiler
collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C,
Objective-C++, and Modula-2 compilers, documentation, and support
libraries. In addition, Debian provides the gm2 compiler, either in
the same source package, or built from a separate same source package.
Packaging is done by the Debian GCC Maintainers
<debian-gcc@lists.debian.org>, with sources obtained from:

 ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)
 svn://gcc.gnu.org/svn/gcc/ (for prereleases)
 ftp://sourceware.org/pub/newlib/ (for newlib)
 git://git.savannah.gnu.org/gm2.git (for Modula-2)

The current gcc-13 source package is taken from the git gcc-13-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language,
library, and documentation as follows:

Language Compiler package Library package Documentation

Ada

```
          gnat-13         libgnat-13         gnat-13-doc
C             gcc-13                          gcc-13-doc
C++           g++-13          libstdc++6        libstdc++6-13-doc
D             gdc-13
Fortran 95    gfortran-13     libgfortran5      gfortran-13-doc
Go            gccgo-13        libgo0
Objective C   gobjc-13        libobjc4
Objective C++ gobjc++-13
Modula-2      gm2-13          libgm2
```

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

```
Language  Sources      Development   Debugging           Position-Independent
-------------------------------------------------------------------------------
C++                                  libstdc++6-13-dbg  libstdc++6-13-pic
D         libphobos-13-dev
```

Additional packages include:

All languages:

```
libgcc1, libgcc2, libgcc4       GCC intrinsics (platform-dependent)
gcc-13-base
                Base files common to all compilers
gcc-13-soft-float             Software floating point (ARM only)
gcc-13-source                 The sources with patches
```

Ada:

```
libgnat-util13-dev, libgnat-util13   GNAT version library
```

C:

```
cpp-13, cpp-13-doc            GNU C Preprocessor
libssp0-dev, libssp0          GCC stack smashing protection library
libquadmath0                  Math routines for the __float128 type
fixincludes                   Fix non-ANSI header files
```

C, C++ and Fortran 95:

```
libgomp1-dev, libgomp1  GCC OpenMP (GOMP) support library
libitm1-dev, libitm1  GNU Transactional Memory Library
```

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit

versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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- libatomic
- libdecnumber
- libgomp
- libitm
- libssp
- libstdc++-v3
- libobjc
- libgfortran

- The libgnat-13 Ada support library and libgnat-util13 library.
- Various config files in gcc/config/
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- libvtv

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libquadmath/math/isinfq.c:
Written by J.T. Conklin <jtc@netbsd.org>.
Change for long double by Jakub Jelinek <jj@ultra.linux.cz>
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libquadmath/math/
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logbq.c, modfq.c, nearbyintq.c,
nextafterq.c, powq.c, remainderq.c,
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D:

gdc-13	GNU D Compiler
libphobos-13-dev	D standard runtime library

The D source package is made up of the following components.

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- d/*

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The DMD Compiler implementation of the D programming language:
- d/dmd/*

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The Zlib data compression library:
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The Phobos standard runtime library:
- d/phobos/*

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```

The current gcc-13 source package is taken from the git gcc-13-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

Language	Compiler package	Library package	Documentation
Ada	gnat-13	libgnat-13	gnat-13-doc
C	gcc-13		gcc-13-doc
C++	g++-13	libstdc++6	libstdc++6-13-doc
D	gdc-13		
Fortran 95	gfortran-13	libgfortran5	gfortran-13-doc
Go	gccgo-13	libgo0	
Objective C	gobjc-13	libobjc4	
Objective C++	gobjc++-13		
Modula-2	gm2-13	libgm2	

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

Language	Sources	Development	Debugging	Position-Independent
C++			libstdc++6-13-dbg	libstdc++6-13-pic
D		libphobos-13-dev		

Additional packages include:

All languages:
libgcc1, libgcc2, libgcc4 GCC intrinsics (platform-dependent)
gcc-13-base

Base files common to all compilers
gcc-13-soft-float Software floating point (ARM only)
gcc-13-source The sources with patches

Ada:
libgnat-util13-dev, libgnat-util13 GNAT version library

C:
cpp-13, cpp-13-doc GNU C Preprocessor
libssp0-dev, libssp0 GCC stack smashing protection library
libquadmath0 Math routines for the __float128 type
fixincludes Fix non-ANSI header files

C, C++ and Fortran 95:
libgomp1-dev, libgomp1 GCC OpenMP (GOMP) support library
libitm1-dev, libitm1 GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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libquadmath/math/

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Change for long double by Jakub Jelinek <jj@ultra.linux.cz>
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copysignq.c, coshq.c, cosq.c, erfq.c, fabsq.c, finiteq.c, floorq.c,
fmodq.c, frexpq.c, hypotq.c, ilogbq.c, isnanq.c, jnq.c, ldexpq.c,
logbq.c, modfq.c, nearbyintq.c,
nextafterq.c, powq.c, remainderq.c,
rem_pio2q.c, rintq.c, scalblnq.c, scalbnq.c, sinhq.c, sinq.c,
tanhq.c, tanq.c, tanq_kernel.c:

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libquadmath/math/
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gcc/go/gofrontend, libgo:

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D:
gdc-13 GNU D Compiler
libphobos-13-dev D standard runtime library

The D source package is made up of the following components.

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The DMD Compiler implementation of the D programming language:
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The Zlib data compression library:
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The Phobos standard runtime library:
- d/phobos/*

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the same source package, or built from a separate same source package.
Packaging is done by the Debian GCC Maintainers
<debian-gcc@lists.debian.org>, with sources obtained from:

 ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)
 svn://gcc.gnu.org/svn/gcc/ (for prereleases)
 ftp://sourceware.org/pub/newlib/ (for newlib)
 git://git.savannah.gnu.org/gm2.git (for Modula-2)

The current gcc-14 source package is taken from the git gcc-14-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language,
library, and documentation as follows:

Language Compiler package Library package Documentation

Ada

	gnat-14	libgnat-14	gnat-14-doc
C	gcc-14		gcc-14-doc
C++	g++-14	libstdc++6	libstdc++6-14-doc
D	gdc-14		
Fortran 95	gfortran-14	libgfortran5	gfortran-14-doc
Go	gccgo-14	libgo0	
Objective C	gobjc-14	libobjc4	
Objective C++	gobjc++-14		
Modula-2	gm2-14	libgm2	
Rust	gccrs-14		

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

Language	Sources	Development	Debugging	Position-Independent
C++			libstdc++6-14-dbg	libstdc++6-14-pic
D		libphobos-14-dev		

Additional packages include:

All languages:

libgcc1, libgcc2, libgcc4	GCC intrinsics (platform-dependent)
gcc-14-base	Base files common to all compilers
gcc-14-soft-float	Software floating point (ARM only)
gcc-14-source	The sources with patches

Ada:

libgnat-util14-dev, libgnat-util14	GNAT version library

C:

cpp-14, cpp-14-doc	GNU C Preprocessor
libssp0-dev, libssp0	GCC stack smashing protection library
libquadmath0	Math routines for the __float128 type
fixincludes	Fix non-ANSI header files

C, C++ and Fortran 95:

libgomp1-dev, libgomp1	GCC OpenMP (GOMP) support library
libitm1-dev, libitm1	GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can also run 64-bit code,

Debian provides additional packages with names
beginning with 'lib64' instead of 'lib'. These packages contain 64-bit
versions of the libraries. (At this time, not all platforms and not all
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  gcc/emults.c, gcc/gbl-ctors.h, gcc/gcov-io.h, gcc/libgcov.c,
  gcc/tsystem.h, gcc/typeclass.h).
- libatomic
- libdecnumber
- libgm2
- libgomp
- libgrust
- libitm
- libssp
- libstdc++-v3
- libobjc

- libgfortran
- The libgnat-14 Ada support library and libgnat-util14 library.
- Various config files in gcc/config/ used in runtime libraries.
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D:

gdc-14	GNU D Compiler
libphobos-14-dev	D standard runtime library

The D source package is made up of the following components.

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The Phobos standard runtime library:
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1.5498 x-time-rate 0.8.0

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1.5499 cron-daemon-common 3.0pl1-184ubuntu2

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Vixie Cron V3.0
December 27, 1993
[V2.2 was some time in 1992]
[V2.1 was May 29, 1991]
[V2.0 was July 5, 1990]
[V2.0-beta
 was December 9, 1988]
[V1.0 was May 6, 1987]
Paul Vixie

This is a version of 'cron' that is known to run on BSD 4.[23] systems.  It
is functionally based on the SysV cron, which means that each user can have
```

their own crontab file (all crontab files are stored in a read-protected
directory, usually /var/cron/tabs). No direct support is provided for
'at'; you can continue to run 'atrun' from the crontab as you have been
doing. If you don't have atrun (i.e., System V) you are in trouble.

A messages is logged each time a command is executed; also, the files
"allow" and "deny" in /var/cron can be used to control access to the
"crontab" command (which installs crontabs). It hasn't been tested on
SysV, although some effort has gone into making the port an easy one.

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To use this: Sorry, folks, there is no cutesy 'Configure' script. You'll
have to go edit a couple of files... So, here's the checklist:

```
 Read all the FEATURES, INSTALL, and CONVERSION files
 Edit config.h
 Edit Makefile
  (both of these files have instructions inside; note that
   some things in config.h are definable in Makefile and are
   therefore surrounded by #ifndef...#endif)
 'make'
 'su' and 'make install'
  (you may have to install the man pages by hand)
 kill your existing cron process
  (actually you can run your existing cron if you want, but why?)
 build new crontabs using /usr/lib/{crontab,crontab.local}
  (either put them all in "root"'s crontab, or divide it up
   and rip out all the 'su' commands, collapse the lengthy
   lists into
 ranges with steps -- basically, this step is
   as much work as you want to make it)
 start up the new cron
  (must be done as root)
 watch it. test it with 'crontab -r' and watch the daemon track your
  changes.
 if you like it, change your /etc/{rc,rc.local} to use it instead of
  the old one.
```

$Id: README,v 2.3 1993/12/28 08:34:43 vixie Exp $

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* /opt/cola/permits/2270798264_1731951211.5783384/0/cron-3-0pl1-orig-2-tar-gz/cron-3.0pl1.orig/crontab.5
* /opt/cola/permits/2270798264_1731951211.5783384/0/cron-3-0pl1-orig-2-tar-gz/cron-3.0pl1.orig/crontab.1
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*
* @(#)bitstring.h 5.2
 (Berkeley) 4/4/90
*/

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```

$Id: INSTALL,v 2.5 1994/01/15 20:43:43 vixie Exp $

Read the comments at the top of the Makefile, then edit the area marked
'configurable
 stuff'.

Edit config.h. The stuff I expect you to change is down a bit from the
top of the file, but it's clearly marked. Also look at pathnames.h.

You don't have to create the /var/cron or /var/cron/tabs directories, since
both the daemon and the `crontab' program will do this the first time they
run if they don't exist. You do need to have a /var, though -- just "mkdir
/var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var"
if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you
change the Makefile. These will have to be created by hand, but if you are
a long-time Usenet user you probably have them already. /usr/local/man is
where I keep my man pages, but I have the source for `man' and you probably
do not. Therefore you may have to put the man pages into /usr/man/manl,
which will be hard since there will be name collisions. (Note that the man
command was originally written by
 Bill Joy before he left Berkeley, and it
contains no AT&T code, so it is in UUNET's archive of freely-distributable
BSD code.)

LINUX note: /usr/include/paths.h on some linux systems shows _PATH_SENDMAIL
 to be /usr/bin/sendmail even though sendmail is installed in /usr/lib.
 you should check this out.

say:
 make all

su and say:
 make install

Note that if I can get you to "su and say" something just by asking, you have
a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file

for help on this.

Use the `crontab' command to install all the little pieces you just created.
Some examples (see below before trying any of these!)

```
 crontab -u uucp -r /usr/lib/uucp/crontab.src
 crontab -u news -r /usr/lib/news/crontab.src
 crontab -u root -r /usr/adm/crontab.src
```

Notes on above examples: (1) the .src files are copied at the time the
command is issued; changing the source files later will have
 no effect until
they are reinstalled with another `crontab -r' command. (2) The crontab
command will affect the crontab of the person using the command unless `-u
USER' is given; `-u' only works for root.  When using most `su' commands
under most BSD's, `crontab' will still think of you as yourself even though
you may think of yourself as root -- so use `-u' liberally.  (3) the `-r'
option stands for `replace'; check the man page for crontab(1) for other
possibilities.

Kill your existing cron daemon -- do `ps aux' and look for /etc/cron.

Edit your /etc/rc or /etc/rc.local, looking for the line that starts up
/etc/cron. Comment it out and add a line to start the new cron daemon
-- usually /usr/local/etc/cron, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type /usr/local/etc/cron
(or whatever); no '&' is needed since the daemon forks itself and the
process you executed returns immediately.

ATT notes: for those people unfortunate enough to
 be stuck on a AT&T UNIX,
you will need the public-domain "libndir", found in the B News source and in
any comp.sources.unix archive. You will also need to hack the code some.

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*/
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* /opt/cola/permits/2270798264_1731951211.5783384/0/cron-3-0pl1-orig-2-tar-gz/cron-3.0pl1.orig/entry.c
*
 /opt/cola/permits/2270798264_1731951211.5783384/0/cron-3-0pl1-orig-2-tar-gz/cron-3.0pl1.orig/env.c
* /opt/cola/permits/2270798264_1731951211.5783384/0/cron-3-0pl1-orig-2-tar-gz/cron-3.0pl1.orig/job.c
* /opt/cola/permits/2270798264_1731951211.5783384/0/cron-3-0pl1-orig-2-tar-gz/cron-3.0pl1.orig/compat.c
* /opt/cola/permits/2270798264_1731951211.5783384/0/cron-3-0pl1-orig-2-tar-gz/cron-3.0pl1.orig/crontab.c
* /opt/cola/permits/2270798264_1731951211.5783384/0/cron-3-0pl1-orig-2-tar-gz/cron-3.0pl1.orig/cron.h
* /opt/cola/permits/2270798264_1731951211.5783384/0/cron-3-0pl1-orig-2-tar-gz/cron-3.0pl1.orig/user.c
* /opt/cola/permits/2270798264_1731951211.5783384/0/cron-3-0pl1-orig-2-tar-gz/cron-3.0pl1.orig/do_command.c
* /opt/cola/permits/2270798264_1731951211.5783384/0/cron-3-0pl1-orig-2-tar-gz/cron-3.0pl1.orig/cron.c
* /opt/cola/permits/2270798264_1731951211.5783384/0/cron-3-0pl1-orig-2-tar-gz/cron-3.0pl1.orig/config.h
* /opt/cola/permits/2270798264_1731951211.5783384/0/cron-3-0pl1-orig-2-tar-gz/cron-3.0pl1.orig/misc.c
*
 /opt/cola/permits/2270798264_1731951211.5783384/0/cron-3-0pl1-orig-2-tar-gz/cron-3.0pl1.orig/database.c
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* /opt/cola/permits/2270798264_1731951211.5783384/0/cron-3-0pl1-orig-2-tar-gz/cron-3.0pl1.orig/compat.h
*
 /opt/cola/permits/2270798264_1731951211.5783384/0/cron-3-0pl1-orig-2-tar-gz/cron-3.0pl1.orig/pathnames.h
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1.5500 glib 2.80.0-6ubuntu3.2

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c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for

the work may be a derivative
work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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1.5506 jboss-logging 3.6.1.Final

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1.5508 libxml2 2.13.4-r3

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1.5509 libcap 2.71-r0

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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/core/ReferenceByIdUnmarshaller.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/core/ReferenceByIdMarshaller.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/mapper/ClassAliasingMapper.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/time/YearMonthConverter.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/time/YearConverter.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/time/OffsetTimeConverter.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/DataHolder.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/extended/ToStringConverter.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/extended/ActivationDataFlavorConverter.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/core/util/ClassLoaderReference.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/extended/ToAttributedValueConverter.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/extended/TextAttributeConverter.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/reflection/FieldDictionary.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/mapper/CannotResolveClassException.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/annotations/XStreamAsAttribute.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/binary/BinaryStreamDriver.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/extended/LookAndFeelConverter.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/xml/JDom2Driver.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/time/ZonedDateTimeConverter.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/time/OffsetDateTimeConverter.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/time/LocalDateConverter.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/time/LocalDateTimeConverter.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/time/LocalTimeConverter.java
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c.t.x.converters.reflection.SerializationMemberInvoker.
*/
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/extended/SqlTimeConverter.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/extended/CurrencyConverter.java
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* Created on 08. January 2014 by Joerg Schaible, renamed from Sun14ReflectionProvider
*/
```

Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/reflection/SunUnsafeReflectionProvider.java
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* Created on 26. November 2022 by Joerg Schaible
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/extended/AtomicBooleanConverter.java
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Found in path(s):

* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/extended/ISO8601DateConverter.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/collections/PropertiesConverter.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/persistence/PersistenceStrategy.java
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* Created on 19. July 2011 by Joerg Schaible
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/core/Caching.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/ConverterMatcher.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/xml/SjsxpDriver.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/binary/Token.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/xml/StandardStaxDriver.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/time/HijrahDateConverter.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/reflection/ObjectAccessException.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/extended/AtomicReferenceConverter.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/core/DefaultConverterLookup.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/core/util/WeakCache.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/basic/BigIntegerConverter.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/basic/BigDecimalConverter.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/javabean/NativePropertySorter.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/javabean/PropertySorter.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/javabean/ComparingPropertySorter.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/mapper/AbstractXmlFriendlyMapper.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/time/ChronologyConverter.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/reflection/PureJavaReflectionProvider.java

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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/collections/CollectionConverter.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/extended/DynamicProxyConverter.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/security/ForbiddenClassException.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/basic/AbstractSingleValueConverter.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/SingleValueConverter.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/json/JsonHierarchicalStreamWriter.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/basic/StringBufferConverter.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/collections/MapConverter.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/xml/DomDriver.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/xml/AbstractXppDriver.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-

jar/com/thoughtworks/xstream/security/InputManipulationException.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/security/AbstractSecurityException.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/binary/ReaderDepthState.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/binary/BinaryStreamWriter.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/mapper/XmlFriendlyMapper.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/xml/XStream11NameCoder.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/naming/NoNameCoder.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/naming/StaticNameCoder.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/naming/NameCoderWrapper.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/basic/ByteConverter.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/extended/ColorConverter.java
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* Created on 10. April 2005 by Joe Walnes
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/ReaderWrapper.java
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* Created on 29. September 2004 by James Strachan
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/xml/StaxReader.java
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* Created on 21.09.2007 by Joerg Schaible
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/extended/DurationConverter.java
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*
* Created on 01. March 2013 by Joerg Schaible, moved from package
* com.thoughtworks.xstream.converters.reflection.
*/

Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/core/util/SelfStreamingInstanceChecker.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/xml/JDomWriter.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/xml/XomWriter.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/xml/JDomReader.java
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* Created on 13. September 2007 by Joerg Schaible.
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/core/util/XmlHeaderAwareReader.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/path/PathTrackingReader.java
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* Created on 24. February 2016 by Joerg Schaible, factored out of ConversionException.
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/ErrorWritingException.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/mapper/EnumMapper.java
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* Created on 04. June 2006 by Mauro Talevi
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/xml/AbstractXmlWriter.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-

jar/com/thoughtworks/xstream/converters/basic/URLConverter.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/reflection/CGLIBEnhancedConverter.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/HierarchicalStreamWriter.java
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Found in path(s):

* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/extended/JavaFieldConverter.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/ExtendedHierarchicalStreamWriterHelper.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/ExtendedHierarchicalStreamWriter.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/core/TreeMarshaller.java
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* Created on 10. April 2007 by Guilherme Silveira
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/reflection/SortableFieldKeySorter.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/reflection/SerializableConverter.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/core/util/PrioritizedList.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/xml/BEAStaxDriver.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/core/ReferenceByXPathMarshallingStrategy.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/persistence/XmlMap.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/core/AbstractReferenceMarshaller.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/reflection/AbstractAttributedCharacterIteratorAttributeConverter.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/xml/DomReader.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/mapper/AnnotationConfiguration.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/core/util/ArrayIterator.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/persistence/XmlSet.java

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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/annotations/AnnotationProvider.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/annotations/AnnotationReflectionConverter.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/mapper/PackageAliasingMapper.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/basic/IntConverter.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/basic/BooleanConverter.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/mapper/AttributeAliasingMapper.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/time/PeriodConverter.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/time/MonthDayConverter.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/time/DurationConverter.java
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* Created on 06. July 2006 by Guilherme Silveira
*/

Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/persistence/XmlArrayList.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/time/SystemClockConverter.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/extended/ISO8601SqlTimestampConverter.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/xml/XmlFriendlyNameCoder.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/mapper/LambdaMapper.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/AbstractWriter.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/core/BaseException.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/core/util/OrderRetainingMap.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/HierarchicalStreamReader.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/xml/xppdom/Xpp3Dom.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/copy/HierarchicalStreamCopier.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/xml/MXParserDomDriver.java
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* Created on 22. June 2006 by Mauro Talevi
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/json/JsonHierarchicalStreamDriver.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/annotations/XStreamConverters.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-

jar/com/thoughtworks/xstream/converters/collections/TreeSetConverter.java
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* Created on 11. August 2011 by Joerg Schaible, code from XppDom.
*/
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/xml/xppdom/XppFactory.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/reflection/ExternalizableConverter.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/security/ArrayTypePermission.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/security/ExplicitTypePermission.java

* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/security/NullPermission.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/security/RegExpTypePermission.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/security/NoPermission.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/mapper/AttributeMapper.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/path/Path.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/extended/NamedCollectionConverter.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/collections/WeakHashMapConverter.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/core/util/Cloneables.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/ErrorReporter.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/reflection/ReflectionProviderWrapper.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/extended/PropertyEditorCapableConverter.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/annotations/XStreamAliasType.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/core/util/Base64JavaUtilCodec.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/core/StringCodec.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/xml/XppReader.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/collections/SingletonMapConverter.java

* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/collections/SingletonCollectionConverter.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/reflection/ImmutableFieldKeySorter.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/core/util/ObjectIdDictionary.java
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/core/util/ThreadSafeSimpleDateFormat.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/security/TypeHierarchyPermission.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/mapper/ImplicitCollectionMapper.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/ConverterLookup.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/core/util/MemberStore.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/core/util/MemberDictionary.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/AbstractReader.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/xml/KXml2Driver.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/xml/Xpp3Driver.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/annotations/XStreamConverter.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/time/package.html
No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Archiver-Version: Plexus Archiver
Created-By: Apache Maven
Built-By: joehni
Build-Jdk: 1.8.0_432

Specification-Title: XStream Core
Specification-Vendor: XStream
Implementation-Title: XStream Core
Implementation-Version: 1.4.21
Implementation-Vendor-Id: com.thoughtworks.xstream
Implementation-Vendor: XStream
Bundle-License: BSD-3-Clause
Bundle-ManifestVersion: 2
Bundle-Name: XStream Core Sources
Bundle-SymbolicName: xstream.sources
Bundle-Vendor: XStream Sources
Bundle-Version: 1.4.21
Eclipse-SourceBundle: xstream;version=1.4.21
Specification-Version: 1.4
X-Build-Os: Linux
X-Build-Time: 2024-11-07T19:13:18Z
X-Builder: Maven 3.9.9
X-Compile-Source: 1.4
X-Compile-Target: 1.4

Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/META-INF/MANIFEST.MF
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/reflection/AbstractReflectionConverter.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/basic/URIConverter.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/basic/StringBuilderConverter.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/basic/UUIDConverter.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/core/util/ISO8601JodaTimeConverter.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/extended/PathConverter.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/mapper/CGLIBMapper.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/core/util/ThreadSafePropertyEditor.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/extended/LocaleConverter.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/core/util/Base64Encoder.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/json/AbstractJsonWriter.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/xml/AbstractXmlDriver.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/extended/AtomicLongConverter.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/extended/AtomicIntegerConverter.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/ConverterRegistry.java

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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/reflection/SelfStreamingInstanceChecker.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/xml/AbstractDocumentReader.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/xml/AbstractPullReader.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/json/JsonWriter.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/security/CGLIBProxyTypePermission.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/security/ProxyTypePermission.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/core/JVM.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/mapper/SystemAttributeAliasingMapper.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/mapper/AbstractAttributeAliasingMapper.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/core/ClassLoaderReference.java
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jar/com/thoughtworks/xstream/security/InterfaceTypePermission.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/extended/StackTraceElementConverter.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/mapper/LocalConversionMapper.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/annotations/XStreamImplicitCollection.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/extended/StackTraceElementFactory.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/mapper/DefaultMapper.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/xml/XmlFriendlyReplacer.java
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* Created on 16. March 2004 by Joe Walnes
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/core/TreeMarshallingStrategy.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/core/ReferenceByIdMarshallingStrategy.java
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* Created on 18. October 2007 by Joerg Schaible
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/xml/DocumentWriter.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/xml/DocumentReader.java
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* Created on 13. October 2011 by Joerg Schaible
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/ExtendedHierarchicalStreamReader.java
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* Created on 11. August 2011 by Joerg Schaible.
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/xml/xppdom/XppDomComparator.java
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/enums/EnumSetConverter.java

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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/reflection/ReflectionProvider.java
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* Created on 17. December 2022 by Joerg Schaible
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```

Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/extended/OptionalIntConverter.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/extended/OptionalLongConverter.java
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* Created on 07. March 2004 by Joe Walnes
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/xml/CompactWriter.java
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* Created on 12.10.2010 by Joerg Schaible, extracted from TreeSetConverter.
*/
```

Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/core/util/PresortedSet.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/xml/xppdom/Xpp3DomBuilder.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/xml/Dom4JWriter.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/extended/CharsetConverter.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/path/package.html
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/basic/ShortConverter.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/basic/DoubleConverter.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/basic/FloatConverter.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/basic/CharConverter.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/security/NoTypePermission.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/security/TypePermission.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/mapper/SecurityMapper.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/security/AnyTypePermission.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/time/AbstractChronoLocalDateConverter.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/time/ThaiBuddhistDateConverter.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/time/WeekFieldsConverter.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/time/ValueRangeConverter.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/time/JapaneseDateConverter.java
*
 /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/time/MinguoDateConverter.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/time/ZoneIdConverter.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/HierarchicalStreamDriver.java
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*
* Created on 14. August 2004 by Joe Walnes
*/
/**
* A SAX {@link org.xml.sax.XMLReader parser} that acts as an XStream
* {@link com.thoughtworks.xstream.io.HierarchicalStreamWriter} to enable direct generation of a
* SAX event flow from the XStream serialization of a list of list of Java objects.
* <p>
* As a
* custom SAX parser, this class ignores the arguments of the two standard parse methods ({@link #parse(java.lang.String)}
* and {@link #parse(org.xml.sax.InputSource)}) but relies on a proprietary SAX property
* {@link #SOURCE_OBJECT_LIST_PROPERTY} to define the list of objects to serialize.

```
 * </p>
* <p>
* Configuration of this SAX parser is achieved through the standard
* {@link #setProperty SAX property mechanism}. While specific setter methods require direct
* access to the parser instance, SAX properties support configuration settings to be propagated
* through a chain of {@link org.xml.sax.XMLFilter filters} down to the underlying parser
* object.
* </p>
* <p>
* This mechanism shall be used to configure the
* {@link #SOURCE_OBJECT_LIST_PROPERTY objects to be serialized} as well as the
* {@link #CONFIGURED_XSTREAM_PROPERTY XStream facade}.
* </p>
*
* @author Laurent Bihanic
*/
/**
   * Sets the value of a property.
   * <p>
   * The property name is any fully-qualified URI.  It is
   * possible for an XMLReader to recognize a property name but
   * to be unable to set its value.</p>
   * <p>
   * XMLReaders are not required to recognize setting any
   * specific property names, though a core set is provided with
   * SAX2.</p>

  * <p>
   * Some property values may be immutable or mutable only
   * in specific contexts, such as before, during, or after
   * a parse.</p>
   * <p>
   * This method is also the standard mechanism for setting
   * extended handlers.</p>
   * <p>
   * <strong>Note</strong>: This implementation only supports two
   * (proprietary) properties: {@link #CONFIGURED_XSTREAM_PROPERTY}
   * and {@link #SOURCE_OBJECT_LIST_PROPERTY}.</p>
   *
   * @param name  the property name, which is a fully-qualified URI.
   * @param value the requested value for the property.
   * @throws SAXNotRecognizedException when the XMLReader does not
   *                                   recognize the property name.
   * @throws SAXNotSupportedException  when the XMLReader recognizes
   *                                   the property name but cannot set
   *                                   the requested value.
   * @see #getProperty
   */
```

```
/**
    * Parses an XML document
 from a system identifier (URI).
    * <p>
    * This method is a shortcut for the common case of reading a
    * document from a system identifier.  It is the exact
    * equivalent of the following:</p>
    * <blockquote>
    * <pre>
    *    parse(new InputSource(systemId));
    *  </pre>
    * </blockquote>
    * <p>
    * If the system identifier is a URL, it must be fully resolved
    * by the application before it is passed to the parser.</p>
    * <p>
    * <strong>Note</strong>: As a custom SAX parser, this class
    * ignores the <code>systemId</code> argument of this method
    * and relies on the proprietary SAX property
    * {@link #SOURCE_OBJECT_LIST_PROPERTY}) to define the list of
    * objects to serialize.</p>
    *
    * @param systemId the system identifier (URI).
    * @throws SAXException Any SAX exception, possibly wrapping
    *                      another exception.
    * @see #parse(org.xml.sax.InputSource)
    */
```

Found in path(s):
*
 /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/xml/SaxWriter.java
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* Created on 11. August 2005 by Mauro Talevi
*/
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-

jar/com/thoughtworks/xstream/annotations/XStreamContainedType.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/annotations/Annotations.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/extended/RegexPatternConverter.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/core/util/FastStack.java
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* Created on 06. May 2005 by Guilherme Silveira
```

```
*/
```

Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/annotations/XStreamOmitField.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/core/TreeUnmarshaller.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/MarshallingStrategy.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/annotations/XStreamAlias.java
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* Created on 08. January 2016 by Joerg Schaible, factored out from FieldAliasingMapper.
*/

Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/mapper/ElementIgnoringMapper.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/AbstractDriver.java
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* Created on 26.09.2007 by Joerg Schaible
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/core/AbstractTreeMarshallingStrategy.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/core/util/TypedNull.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/xml/XmlFriendlyWriter.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/xml/XmlFriendlyReader.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/basic/LongConverter.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/InitializationException.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/reflection/SerializationMethodInvoker.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/time/JapaneseEraConverter.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/core/util/CustomObjectInputStream.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/xml/QNameMap.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/xml/XppDomReader.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/xml/XppDomWriter.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/path/PathTracker.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/UnmarshallingContext.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-
jar/com/thoughtworks/xstream/converters/reflection/ReflectionConverter.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-
jar/com/thoughtworks/xstream/persistence/AbstractFilePersistenceStrategy.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-
jar/com/thoughtworks/xstream/core/util/Pool.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/StatefulWriter.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/enums/EnumMapConverter.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/xml/XppDomDriver.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/SingleValueConverterWrapper.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/xml/DomWriter.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/xml/XomReader.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/reflection/FieldUtil14.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/reflection/FieldUtil15.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/xml/MXParserDriver.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/xml/AbstractDocumentWriter.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/extended/package.html
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/collections/package.html
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/naming/NameCoder.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-

jar/com/thoughtworks/xstream/persistence/FilePersistenceStrategy.java
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* Created on 08. January 2014 by Joerg Schaible, factored out from SunUnsafeReflectionProvider
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/extended/UseAttributeForEnumMapper.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/core/util/PresortedMap.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/persistence/FileStreamStrategy.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/persistence/StreamStrategy.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/extended/StackTraceElementFactory15.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/xml/Xpp3DomDriver.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/xml/KXml2DomDriver.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/collections/BitSetConverter.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/core/ReferenceByXPathUnmarshaller.java
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Found in path(s):
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/xml/XStream11XmlFriendlyReplacer.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/basic/DateConverter.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/enums/EnumSingleValueConverter.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/core/MapBackedDataHolder.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/core/util/Primitives.java

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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/json/JettisonStaxWriter.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/path/PathTrackingWriter.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/AttributeNameIterator.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/core/util/CompositeClassLoader.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/reflection/MissingFieldException.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/mapper/ImmutableTypesMapper.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/converters/reflection/LambdaConverter.java

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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/xml/JDom2Writer.java
* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/xml/JDom2Reader.java
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* /opt/cola/permits/2275750545_1732243234.0100675/0/xstream-1-4-21-sources-jar/com/thoughtworks/xstream/io/WriterWrapper.java

1.5512 x-oauth2 v0.23.0

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1.5513 cross-spawn 7.0.6

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1.5514 @angular/core 19.0.0

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1.5515 kubernetes-apimachinery 0.31.2

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1.5516 x-oauth2 0.24.0

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1.5517 libgpg-error 1.51-r0

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1.5518 gnutls 3.8.8-r0

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Constant-time SSSE3 AES core implementation.
version 0.1
##
By Mike Hamburg (Stanford University), 2009

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1.5526 make-fetch-happen 14.0.3

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1.5532 promise-call-limit 3.0.2

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1.5533 npmcli-promise-spawn 8.0.2

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* /opt/cola/permits/2283074749_1737646204.622985/0/flyway-core-10-19-0-sources-jar/org/flywaydb/core/internal/util/CloseableIterator.java
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1a764bd2bad6848ffc9fd3bca773138d
validate-npm-package-license
==========

Give me a string and I'll tell you if it's a valid npm package license string.

```javascript
var valid = require('validate-npm-package-license');
```

SPDX license identifiers are valid license strings:

```javascript

var assert = require('assert');
var validSPDXExpression = {
 validForNewPackages: true,
 validForOldPackages: true,
 spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
```
The function will return a warning and suggestion for nearly-correct license identifiers:

```javascript
assert.deepEqual(
 valid('Apache 2.0'),
 {
   validForOldPackages: false,
   validForNewPackages: false,
   warnings: [
     'license should be ' +
     'a valid SPDX license expression (without "LicenseRef"), ' +
     '"UNLICENSED", or ' +
```

```
    '"SEE LICENSE IN <filename>"',
    'license is similar to the valid expression "Apache-2.0"'
  ]
 }
);
```

SPDX expressions are valid, too ...

```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
 valid('(GPL-3.0 OR BSD-2-Clause)'),
 validSPDXExpression
);
```

... except if they contain `LicenseRef`:

```javascript
var warningAboutLicenseRef = {
 validForOldPackages: false,
 validForNewPackages: false,
 spdx: true,
 warnings: [
  'license should be ' +
  'a valid SPDX license expression (without "LicenseRef"), ' +
  '"UNLICENSED", or ' +
  '"SEE LICENSE IN <filename>"',
 ]
};

assert.deepEqual(
 valid('LicenseRef-Made-Up'),
 warningAboutLicenseRef
);

assert.deepEqual(
 valid('(MIT OR LicenseRef-Made-Up)'),
 warningAboutLicenseRef
);
```

If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```javascript
assert.deepEqual(
```

```
 valid('SEE
 LICENSE IN LICENSE.txt'),
 {
   validForNewPackages: true,
   validForOldPackages: true,
   inFile: 'LICENSE.txt'
 }
);

assert.deepEqual(
 valid('SEE LICENSE IN license.md'),
 {
   validForNewPackages: true,
   validForOldPackages: true,
   inFile: 'license.md'
 }
);
```

If there aren't any licensing terms, use `UNLICENSED`:

```javascript
var unlicensed = {
 validForNewPackages: true,
 validForOldPackages: true,
 unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);
```

97a8b0cb9fb8e6a9ddfc437691f026f0

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   "latest": "3.0.4"
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     "version": "1.0.0-prerelease-1",
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[**Download JSON**](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/spdx-license-ids.json)

Use as a JavaScript Library

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Installation

Package managers

[npm](https://www.npmjs.com/)

```sh
npm install spdx-license-ids
```

#####
 [bower](http://bower.io/)

```sh
bower install spdx-license-ids
```

[Duo](http://duojs.org/)

```javascript
const spdxLicenseIds = require('shinnn/spdx-license-ids');
```

Standalone

[Download the script file directly.](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/spdx-license-ids-browser.js)

API

spdxLicenseIds

Type: `Array` of `String`

It returns an array of SPDX license identifiers.

```javascript
const spdxLicenseIds = require('spdx-license-ids'); //=> ['Glide', 'Abstyles', 'AFL-1.1', ... ]
```

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"Motosoto",
"Multics",
"Mup",

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"psutils",
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// Original can be found at:
// https://bitbucket.org/lindenlab/llsd
// Modifications by Joshua Bell inexorabletash@gmail.com
// https://github.com/inexorabletash/polyfill

// ES3/ES5 implementation of the Krhonos Typed Array Specification
// Ref: http://www.khronos.org/registry/typedarray/specs/latest/
// Date: 2011-02-01
//
// Variations:
// * Allows typed_array.get/set() as alias for subscripts (typed_array[])
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"email": "kyle@kemitchell.com"
},
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{
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"email": "kyle@kemitchell.com"
}
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"version": "1.0.0-prerelease-2",
"author": {
"name": "Kyle E. Mitchell",
"email": "kyle@kemitchell.com",
"url": "http://kemitchell.com"
},
"bugs": {
"url": "https://github.com/kemitchell/npm-valid-package-license/issues"

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    },
    "dependencies": {
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    },
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      "npm",
      "package",
      "validation"
    ],
    "license": "Apache-2.0",
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      "url": "https://github.com/kemitchell/npm-valid-package-license"
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      "test": "jsmd README.md"
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      "email": "kyle@kemitchell.com"
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        "email": "kyle@kemitchell.com"
      }
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"name": "Kyle E. Mitchell",
"email": "kyle@kemitchell.com",
"url": "http://kemitchell.com"
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"bugs": {
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"npm",
"package",
"validation"
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"test": "jsmd README.md"
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"_nodeVersion": "2.2.1",
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"email": "kyle@kemitchell.com",
"url": "http://kemitchell.com"
},
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},
"dependencies": {
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"spdx-correct": "~1.0.0"
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"jsmd": "~0.3.0"
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"npm",
"package",
"validation"
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"test": "jsmd README.md"
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"email": "kyle@kemitchell.com",
"url": "http://kemitchell.com"
},
"bugs": {
"url": "https://github.com/kemitchell/validate-npm-package-license.js/issues"
},
"dependencies": {
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"spdx-correct": "~1.0.0"
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"devDependencies": {
"jsmd": "~0.3.0"
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"npm",
"package",
"validation"
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"precommit": "npm run test",
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"email": "kyle@kemitchell.com"
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{
"name": "kemitchell",
"email": "kyle@kemitchell.com"
},
{
"name": "othiym23",
"email": "ogd@aoaioxxysz.net"
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"email": "kyle@kemitchell.com",
"url": "https://kemitchell.com"
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"spdx-correct": "~1.0.0"

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  "npm",
  "package",
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  "url": "git+https://github.com/kemitchell/validate-npm-package-license.js.git"
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"_shasum": "cf9f54a861d1b8a9dbf4b3e72765024a22e87ed0",
"_from": ".",
"_npmVersion": "2.13.5",
"_nodeVersion": "0.12.7",
"_npmUser": {
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  "email": "kyle@kemitchell.com"
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    "email": "kyle@kemitchell.com"
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    "email": "ogd@aoaioxxysz.net"
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    "version": "3.0.1",
    "author": {
      "name": "Kyle E. Mitchell",
      "email": "kyle@kemitchell.com",
      "url": "https://kemitchell.com"
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      "spdx-expression-parse": "~1.0.0"
    },
    "devDependencies": {
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      "npm",
      "package",
      "validation"
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      "url": "git+https://github.com/kemitchell/validate-npm-package-license.js.git"
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    "homepage": "https://github.com/kemitchell/validate-npm-package-license.js#readme",
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    "_npmVersion": "2.13.5",
    "_nodeVersion": "0.12.7",
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      "email": "kyle@kemitchell.com"
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    "dist": {
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{
"name": "kemitchell",
"email": "kyle@kemitchell.com"
},
{
"name": "othiym23",
"email": "ogd@aoaioxxysz.net"
}
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"3.0.2": {
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"description": "Give me a string and I'll tell you if it's a valid npm package license string",
"version": "3.0.2",
"author": {
"name": "Kyle E. Mitchell",
"email": "kyle@kemitchell.com",
"url": "https://kemitchell.com"
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"dependencies": {
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"spdx-expression-parse": "^3.0.0"
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"devDependencies": {
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"replace-require-self": "^1.0.0"
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"npm",
"package",
"validation"
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"type": "git",
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"scripts": {
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"email": "kyle@kemitchell.com"
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"dist": {
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"tarball": "https://registry.npmjs.org/validate-npm-package-license/-/validate-npm-package-license-3.0.2.tgz",
"fileCount": 5,
"unpackedSize": 16605
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"maintainers": [
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"name": "kemitchell",
"email": "kyle@kemitchell.com"
}
],
"directories": {},
"_npmOperationalInternal": {
"host": "s3://npm-registry-packages",
"tmp": "tmp/validate-npm-package-license_3.0.2_1519690927845_0.8808876924983544"
}
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"description": "Give me a string and I'll tell you if it's a valid npm package license string",
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"author": {
"name": "Kyle E. Mitchell",
"email": "kyle@kemitchell.com",
"url": "https://kemitchell.com"
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"dependencies": {
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"spdx-expression-parse": "^3.0.0"
},
"devDependencies": {
"defence-cli": "^2.0.1",
"replace-require-self": "^1.0.0"

},
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"license",
"npm",
"package",
"validation"
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"Apache-2.0",
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  "email": "kyle@kemitchell.com",
  "url": "https://kemitchell.com"
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 "contributors": [
  {
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   "email": "markjstacey@gmail.com"
  }
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  "npm",
  "package",
  "validation"
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  "url": "git+https://github.com/kemitchell/validate-npm-package-license.js.git"
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  "email": "kyle@kemitchell.com"

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PGP SIGNATURE-----\r\n"
},
"maintainers": [
{
"name": "kemitchell",
"email": "kyle@kemitchell.com"
}
],
"directories": {},
"_npmOperationalInternal": {
"host": "s3://npm-registry-packages",
"tmp": "tmp/validate-npm-package-license_3.0.4_1533488343147_0.7174321298588549"
}
}
},
"readme": "validate-npm-package-license\n==========\n\nGive me a string and I'll tell
you if it's a valid npm package license string.\n\n```javascript\nvar valid = require('validate-npm-package-
license');\n```\n\nSPDX license identifiers are valid license strings:\n\n```javascript\n\nvar assert =
require('assert');\nvar validSPDXExpression = {\n validForNewPackages: true,\n
validForOldPackages: true,\n spdx: true\n};\n\nassert.deepEqual(valid('MIT'),
validSPDXExpression);\nassert.deepEqual(valid('BSD-2-Clause'),
validSPDXExpression);\nassert.deepEqual(valid('Apache-2.0'),
validSPDXExpression);\nassert.deepEqual(valid('ISC'), validSPDXExpression);\n```\nThe function will return a
warning and suggestion for nearly-correct license identifiers:\n\n```javascript\nassert.deepEqual(\n valid('Apache
2.0'),\n {\n validForOldPackages: false,\n validForNewPackages: false,\n warnings: [\n 'license should be '
+\n 'a valid SPDX license expression (without \"LicenseRef\"), ' +\n '\"UNLICENSED\", or ' +\n '\"SEE
LICENSE IN <filename>\"',\n 'license is similar to the valid expression \"Apache-2.0\"'\n]\n

}\n);\n```\n\nSPDX expressions are valid, too ...\n\n```javascript\n// Simple SPDX license expression for dual licensing\nassert.deepEqual(\n valid('(GPL-3.0-only OR BSD-2-Clause)'),\n validSPDXExpression\n);\n```\n\n...
 except if they contain `LicenseRef`:\n\n```javascript\nvar warningAboutLicenseRef = {\n validForOldPackages: false,\n validForNewPackages: false,\n spdx: true,\n warnings: [\n   'license should be ' +\n   'a valid SPDX license expression (without \"LicenseRef\"), ' +\n   '\"UNLICENSED\", or ' +\n   '\"SEE LICENSE IN <filename>\"',\n]\n};\n\nassert.deepEqual(\n valid('LicenseRef-Made-Up'),\n warningAboutLicenseRef\n);\n\nassert.deepEqual(\n valid('(MIT OR LicenseRef-Made-Up)'),\n warningAboutLicenseRef\n);\n```\n\nIf you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:\n\n```javascript\nassert.deepEqual(\n valid('SEE LICENSE IN LICENSE.txt'),\n {\n   validForNewPackages: true,\n   validForOldPackages: true,\n   inFile: 'LICENSE.txt'\n }\n);\n\nassert.deepEqual(\n valid('SEE LICENSE IN license.md'),\n {\n   validForNewPackages: true,\n   validForOldPackages: true,\n   inFile: 'license.md'\n }\n);\n```\n\nIf there aren't any licensing terms, use `UNLICENSED`:\n\n```javascript\nvar unlicensed = {\n validForNewPackages: true,\n validForOldPackages: true,\n unlicensed: true\n};\nassert.deepEqual(valid('UNLICENSED'), unlicensed);\nassert.deepEqual(valid('UNLICENCED'), unlicensed);\n```\n",
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"email": "kyle@kemitchell.com",
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* * *

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Minizlib was created by Isaac Z. Schlueter.
It is a derivative work of the Node.js project.

"""
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"""
spdx-license-ids

[![npm version](https://img.shields.io/npm/v/spdx-license-ids.svg)](https://www.npmjs.com/package/spdx-license-ids)
[![Github Actions](https://action-badges.now.sh/shinnn/spdx-license-ids)](https://wdp9fww0r9.execute-api.us-west-2.amazonaws.com/production/results/shinnn/spdx-license-ids)

A list of [SPDX license](https://spdx.org/licenses/) identifiers

Installation

[Download JSON directly](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/index.json), or [use](https://docs.npmjs.com/cli/install) [npm](https://docs.npmjs.com/about-npm/):

```
npm install spdx-license-ids
```

[Node.js](https://nodejs.org/) API

require('spdx-license-ids')

Type: `string[]`

All license IDs except for the currently deprecated ones.

```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'ADSL', 'AFL-1.1', 'AFL-1.2', 'AFL-2.0', 'AFL-2.1', 'AFL-3.0', 'AGPL-1.0-only', ...]

ids.includes('BSD-3-Clause'); //=> true
ids.includes('CC-BY-1.0'); //=>
 true
```

ids.includes('GPL-3.0'); //=> false
```

### require('spdx-license-ids/deprecated')

Type: `string[]`

Deprecated license IDs.

```javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
//=> ['AGPL-1.0', 'AGPL-3.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', 'GPL-2.0', ...]

deprecatedIds.includes('BSD-3-Clause'); //=> false
deprecatedIds.includes('CC-BY-1.0'); //=> false

deprecatedIds.includes('GPL-3.0'); //=> true
```

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```

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"lint": "eslint --config node_modules/@shinnn/eslintrc/rc.json --ignore-path .gitignore .",
"pretest": "${npm_package_scripts_build} && ${npm_package_scripts_lint}",
"test": "node --harmony_arrow_functions test.js",
"coverage": "node --harmony_arrow_functions node_modules/.bin/istanbul cover test.js",

"coveralls": "${npm_package_scripts_coverage} && istanbul-coveralls"
},
"license": "Unlicense",
"main": "spdx-license-ids.json",
"files": [

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],
"keywords": [
"spdx",
"license",
"licenses",
"id",
"identifier",
"identifiers",
"json",
"array",
"oss",
"browser",
"client-side"
],
"devDependencies": {
"@shinnn/eslintrc": "^1.0.0",
"each-async": "^1.1.1",
"eslint": "^0.24.0",
"got": "^3.3.0",
"istanbul": "^0.3.17",
"require-bower-files": "^2.0.0",
"rimraf": "^2.4.1",
"stringify-object": "^2.2.0",
"tape": "^4.0.0"
},
"gitHead": "769b83e3335426bd45f70b58b194b79e1d6c0583",
"bugs": {
"url": "https://github.com/shinnn/spdx-license-ids/issues"
},
"homepage": "https://github.com/shinnn/spdx-license-ids#readme",
"_id": "spdx-license-ids@1.1.0",
"_shasum": "28694acdf39fe27de45143fff81f21f6c66d44ac",
"_from": ".",
"_npmVersion": "3.3.8",
"_nodeVersion": "4.2.1",
"_npmUser": {
"name": "shinnn",
"email": "snnskwtnb@gmail.com"
},
"maintainers": [
{
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"email": "snnskwtnb@gmail.com"
}
],
"dist": {
"shasum": "28694acdf39fe27de45143fff81f21f6c66d44ac",

"tarball": "https://registry.npmjs.org/spdx-license-ids/-/spdx-license-ids-1.1.0.tgz"
},
"directories": {}
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"1.2.0": {
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"version": "1.2.0",
"description": "A list of SPDX license identifiers",
"repository": {
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"url": "git+https://github.com/shinnn/spdx-license-ids.git"
},
"author": {
"name": "Shinnosuke Watanabe",
"url": "https://github.com/shinnn"
},
"scripts": {
"build": "node
--harmony_arrow_functions build.js",
"lint": "eslint --config node_modules/@shinnn/eslintrc/rc.json --ignore-path .gitignore .",
"pretest": "${npm_package_scripts_build} && ${npm_package_scripts_lint}",
"test": "node --harmony_arrow_functions test.js",
"coverage": "node --harmony_arrow_functions node_modules/.bin/istanbul cover test.js",
"coveralls": "${npm_package_scripts_coverage} && istanbul-coveralls"
},
"license": "Unlicense",
"main": "spdx-license-ids.json",
"files": [
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],
"keywords": [
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"license",
"licenses",
"id",
"identifier",
"identifiers",
"json",
"array",
"oss",
"browser",
"client-side"
],
"devDependencies": {
"@shinnn/eslintrc": "^1.0.0",
"each-async": "^1.1.1",
"eslint": "^0.24.0",
"got": "^3.3.0",

"istanbul": "^0.3.17",
"require-bower-files": "^2.0.0",
"rimraf": "^2.4.1",
"stringify-object": "^2.2.0",
"tape": "^4.0.0"
},
"gitHead": "f74a7a16ca05540e0e97f1bbb61da07829b5d9ab",
"bugs": {
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},
"homepage": "https://github.com/shinnn/spdx-license-ids#readme",
"_id": "spdx-license-ids@1.2.0",
"_shasum": "b549dd0f63dcb745a17e2ea3a07402e0e332d1e2",
"_from": ".",
"_npmVersion": "3.5.2",
"_nodeVersion": "5.4.0",
"_npmUser": {
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"email": "snnskwtnb@gmail.com"
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"dist": {
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"tarball": "https://registry.npmjs.org/spdx-license-ids/-/spdx-license-ids-1.2.0.tgz"
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"maintainers": [
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"name": "shinnn",
"email": "snnskwtnb@gmail.com"
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"directories": {}
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"version": "1.2.1",
"description": "A list of SPDX license identifiers",
"repository": {
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"url": "git+https://github.com/shinnn/spdx-license-ids.git"
},
"author": {
"name": "Shinnosuke Watanabe",
"url": "https://github.com/shinnn"
},
"scripts": {
"build": "node --strong_mode --harmony_destructuring build.js",
"lint": "eslint --config @shinnn/node --env browser --ignore-path .gitignore .",

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  "pretest": "${npm_package_scripts_build} && ${npm_package_scripts_lint}",
  "test": "node --strong_mode test.js | tap-spec",
  "coverage": "node --strong_mode node_modules/.bin/istanbul cover test.js"
},
"license": "Unlicense",
"main": "spdx-license-ids.json",
"files": [
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  "license",
  "licenses",
  "id",
  "identifier",
  "identifiers",
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  "array",
  "oss",
  "browser",
  "client-side"
],
"devDependencies": {
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  "chalk": "^1.1.3",
  "eslint": "^2.7.0",
  "get-spdx-license-ids": "^1.0.0",
  "istanbul": "^0.4.3",
  "loud-rejection": "^1.3.0",
  "rimraf-promise": "^2.0.0",
  "stringify-object": "^2.3.1",
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"_npmVersion": "3.8.3",
"_nodeVersion": "5.10.0",
"_npmUser": {
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  "email": "snnskwtnb@gmail.com"
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      "tarball": "https://registry.npmjs.org/spdx-license-ids/-/spdx-license-ids-1.2.1.tgz"
    },
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        "name": "shinnn",
        "email": "snnskwtnb@gmail.com"
      }
    ],
    "_npmOperationalInternal": {
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    },
    "directories": {}
  },
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    "version": "1.2.2",
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    "repository": {
      "type": "git",
      "url": "git+https://github.com/shinnn/spdx-license-ids.git"
    },
    "author": {
      "name": "Shinnosuke Watanabe",
      "url": "https://github.com/shinnn"
    },
    "scripts": {
      "build": "node --strong_mode build.js",
      "lint": "eslint --config
@shinnn/node --env browser --ignore-path .gitignore .",
      "pretest": "${npm_package_scripts_build} && ${npm_package_scripts_lint}",
      "test": "node --strong_mode test.js | tap-spec",
      "coverage": "node --strong_mode node_modules/.bin/istanbul cover test.js"
    },
    "license": "Unlicense",
    "main": "spdx-license-ids.json",
    "files": [
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    "keywords": [
      "spdx",
      "license",
      "licenses",
      "id",
      "identifier",
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"oss",
"browser",
"client-side"
],
"devDependencies": {
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"chalk": "^1.1.3",
"eslint": "^3.1.1",
"get-spdx-license-ids": "^1.0.0",
"istanbul": "^0.4.4",
"loud-rejection": "^1.6.0",
"rimraf-promise": "^2.0.0",
"stringify-object": "^2.4.0",
"tap-spec": "^4.1.1",
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"write-file-atomically": "1.0.0"
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"_from": ".",
"_npmVersion": "3.10.5",
"_nodeVersion": "6.3.0",
"_npmUser": {
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"email": "snnskwtnb@gmail.com"
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"tarball": "https://registry.npmjs.org/spdx-license-ids/-/spdx-license-ids-1.2.2.tgz"
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"email": "snnskwtnb@gmail.com"
}
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"_npmOperationalInternal": {
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"tmp": "tmp/spdx-license-ids-1.2.2.tgz_1469529975605_0.35518706892617047"

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  },
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    "url": "git+https://github.com/shinnn/spdx-license-ids.git"
  },
  "author": {
    "name": "Shinnosuke Watanabe",
    "url": "https://github.com/shinnn"
  },
  "scripts": {
    "build": "node build.js",
    "lint": "eslint --fix --format=codeframe --env=browser --ignore-path .gitignore .",
    "pretest": "${npm_package_scripts_build} && ${npm_package_scripts_lint}",
    "test": "node test.js",
    "coverage": "node node_modules/.bin/istanbul cover test.js"
  },
  "license": "CC0-1.0",
  "files": [
    "index.json",
    "module.js"
  ],
  "keywords": [
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    "license",
    "licenses",
    "id",
    "identifier",
    "identifiers",
     "json",
    "array",
    "oss"
  ],
  "devDependencies": {
    "@shinnn/eslint-config-node": "^3.0.0",
    "chalk": "^1.1.3",
    "eslint": "^3.10.2",
    "get-spdx-license-ids": "^1.0.0",
    "istanbul": "^0.4.5",
    "loud-rejection": "^1.6.0",
    "rmfr": "^1.0.1",
    "stringify-object": "^3.0.0",
    "tape": "^4.6.2",
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  "eslintConfig": {
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  },
  "gitHead": "6e6a2417f76b333f5c5415fe76c7dfb19bd5f6fd",
  "bugs": {
    "url": "https://github.com/shinnn/spdx-license-ids/issues"
  },
  "homepage": "https://github.com/shinnn/spdx-license-ids#readme",
  "_id": "spdx-license-ids@2.0.0",
  "_shasum": "0eb748e3c6fe7a80fa9f31eaab7d8f6c331b2173",
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  "_npmVersion": "4.0.5",
  "_nodeVersion": "7.2.1",
  "_npmUser": {
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    "email": "snnskwtnb@gmail.com"
   },
  "dist": {
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    "tarball": "https://registry.npmjs.org/spdx-license-ids/-/spdx-license-ids-2.0.0.tgz"
  },
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      "email": "snnskwtnb@gmail.com"
    }
  ],
  "_npmOperationalInternal": {
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    "tmp": "tmp/spdx-license-ids-2.0.0.tgz_1482741813260_0.8923152482602745"
  },
  "directories": {}
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"2.0.1": {
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  "repository": {
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    "url": "git+https://github.com/shinnn/spdx-license-ids.git"
  },
  "author": {
    "name": "Shinnosuke Watanabe",
    "url": "https://github.com/shinnn"
  },
  "scripts": {
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"build": "node build.js",
"lint": "eslint --fix --format=codeframe --env=browser
--ignore-path .gitignore .",
"pretest": "${npm_package_scripts_build} && ${npm_package_scripts_lint}",
"test": "node test.js",
"coverage": "node node_modules/.bin/istanbul cover test.js"
},
"license": "CC0-1.0",
"files": [
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"module.js"
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"keywords": [
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"license",
"licenses",
"id",
"identifier",
"identifiers",
"json",
"array",
"oss"
],
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"eslint": "^3.10.2",
"get-spdx-license-ids": "^1.0.0",
"istanbul": "^0.4.5",
"loud-rejection": "^1.6.0",
"rmfr": "^1.0.1",
"stringify-object": "^3.0.0",
"tape": "^4.6.2",
"write-file-atomically": "1.0.0"
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"eslintConfig": {
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},
"gitHead": "d9a03669172d5baba788011e09617313942acff0",
"bugs": {
"url": "https://github.com/shinnn/spdx-license-ids/issues"
},
"homepage": "https://github.com/shinnn/spdx-license-ids#readme",
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"_nodeVersion": "7.5.0",

"_npmUser": {
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"tarball": "https://registry.npmjs.org/spdx-license-ids/-/spdx-license-ids-2.0.1.tgz"
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"name": "shinnn",
"email": "snnskwtnb@gmail.com"
}
],
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"tmp": "tmp/spdx-license-ids-2.0.1.tgz_1486371129713_0.03612973913550377"
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"directories": {}
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"repository": {
"type": "git",
"url": "git+https://github.com/shinnn/spdx-license-ids.git"
},
"author": {
"name": "Shinnosuke Watanabe",
"url": "https://github.com/shinnn"
},
"scripts": {
"build": "node build.js",
"lint": "eslint --fix --format=codeframe --env=browser --ignore-path .gitignore .",
"pretest": "${npm_package_scripts_build} && ${npm_package_scripts_lint}",
"test": "node test.js",
"coverage": "node node_modules/.bin/istanbul cover test.js"
},
"license": "CC0-1.0",
"files": [
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"module.js"
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"keywords": [
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"license",

"licenses",
"id",
"identifier",
"identifiers",
"json",
"array",
"oss"
],
"devDependencies": {
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"^4.0.2",
"chalk": "^2.0.1",
"eslint": "^4.3.0",
"get-spdx-license-ids": "^1.1.0",
"istanbul": "^0.4.5",
"loud-rejection": "^1.6.0",
"rmfr": "^1.0.3",
"stringify-object": "^3.2.0",
"tape": "^4.8.0",
"write-file-atomically": "^1.0.0"
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"eslintConfig": {
"extends": "@shinnn/node"
},
"gitHead": "7495a16b5d13b92344aa3e04a9cdeaa197cd3c74",
"bugs": {
"url": "https://github.com/shinnn/spdx-license-ids/issues"
},
"homepage": "https://github.com/shinnn/spdx-license-ids#readme",
"_id": "spdx-license-ids@3.0.0-0",
"_npmVersion": "5.6.0",
"_nodeVersion": "9.4.0",
"_npmUser": {
"name": "shinnn",
"email": "snnskwtnb@gmail.com"
},
"dist": {
"integrity": "sha512-
xUkSOYgYysHMp173PADzBKOnuAdv0YvETy2syBD+AOWZYfV6Zb7iuUOY0FOniOEkFEujoLA4gCxUTLtJ9
5oWvA==",
"shasum": "b7e47584254ade1cca1f69344fc37457f961f341",
"tarball": "https://registry.npmjs.org/spdx-license-ids/-/spdx-license-ids-3.0.0-0.tgz"
},
"maintainers": [
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"name": "shinnn",
"email": "snnskwtnb@gmail.com"
}

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    },
    "directories": {}
  },
  "3.0.0-1": {
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    "version": "3.0.0-1",
    "description": "A list of SPDX license identifiers",
    "repository": {
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      "url": "git+https://github.com/shinnn/spdx-license-ids.git"
    },
    "author": {
      "name": "Shinnosuke Watanabe",
      "url": "https://github.com/shinnn"
    },
    "scripts": {
      "prebuild": "eslint --fix --format=codeframe .",
      "build": "node build.js",
      "pretest": "npm run-script build",
      "test": "node
test.js"
    },
    "license": "CC0-1.0",
    "files": [
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    ],
    "keywords": [
      "spdx",
      "license",
      "licenses",
      "id",
      "identifier",
      "identifiers",
      "json",
      "array",
      "oss"
    ],
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      "chalk": "^2.3.0",
      "eslint": "^4.16.0",
      "get-spdx-license-ids": "^2.1.0",
      "loud-rejection": "^1.6.0",
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"tape": "^4.8.0",
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"bugs": {
"url": "https://github.com/shinnn/spdx-license-ids/issues"
},
"homepage": "https://github.com/shinnn/spdx-license-ids#readme",
"_id": "spdx-license-ids@3.0.0-1",
"_npmVersion": "5.6.0",
"_nodeVersion": "9.4.0",
"_npmUser":
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"name": "shinnn",
"email": "snnskwtnb@gmail.com"
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"dist": {
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m20oQkls+fkRBkMhlL5CFhs1wXMTi7Th9Rox1U6YHXarDzVdnIXesOkKsLGuNmanePoM8WMwFZXR2zL1F
XaW4g==",
"shasum": "500d099bdb7f6c58678e2869e9444d13fac528fa",
"tarball": "https://registry.npmjs.org/spdx-license-ids/-/spdx-license-ids-3.0.0-1.tgz"
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"maintainers": [
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"email": "snnskwtnb@gmail.com"
}
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"_npmOperationalInternal": {
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"tmp": "tmp/spdx-license-ids-3.0.0-1.tgz_1516948070711_0.8446547978091985"
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"version": "3.0.0",
"description": "A list of SPDX license identifiers",
"repository": {
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"url": "git+https://github.com/shinnn/spdx-license-ids.git"
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"author": {
"name":

"Shinnosuke Watanabe",
"url": "https://github.com/shinnn"
},
"scripts": {
"build": "node build.js",
"pretest": "eslint --fix --format=codeframe .",
"test": "node test.js"
},
"license": "CC0-1.0",
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"licenses",
"id",
"identifier",
"identifiers",
"json",
"array",
"oss"
],
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"chalk": "^2.3.0",
"eslint": "^4.16.0",
"get-spdx-license-ids": "^2.1.0",
"log-symbols": "^2.2.0",
"loud-rejection": "^1.6.0",
"rmfr": "^2.0.0-3",
"tape": "^4.8.0",
"write-file-atomically": "^1.0.0"
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"bugs":
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"_id": "spdx-license-ids@3.0.0",
"_npmVersion": "5.6.0",
"_nodeVersion": "9.4.0",
"_npmUser": {

"name": "shinnn",
"email": "snnskwtnb@gmail.com"
},
"dist": {
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"shasum": "7a7cd28470cc6d3a1cfe6d66886f6bc430d3ac87",
"tarball": "https://registry.npmjs.org/spdx-license-ids/-/spdx-license-ids-3.0.0.tgz"
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"maintainers": [
{
"name": "shinnn",
"email": "snnskwtnb@gmail.com"
}
],
"_npmOperationalInternal": {
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"directories": {}
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"version": "3.0.1",
"description": "A list of SPDX license identifiers",
"repository": {
"type": "git",
"url": "git+https://github.com/shinnn/spdx-license-ids.git"
},
"author": {
"name": "Shinnosuke Watanabe",
"url": "https://github.com/shinnn"
},
"scripts": {
"build": "node build.js",
"pretest": "eslint .",
"test": "node test.js"
},
"license": "CC0-1.0",
"keywords": [
"spdx",
"license",
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"id",
"identifier",
"identifiers",

"json",
"array",
"oss"
],
"devDependencies": {
"@shinnn/eslint-config-node": "^6.0.0",
"chalk": "^2.4.1",
"eslint": "^5.4.0",
"get-spdx-license-ids": "^2.1.0",
"rmfr": "^2.0.0",
"tape": "^4.9.1"
},
"eslintConfig": {
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},
"gitHead": "27cd18eec90b4b2363f90c354242a89a9c443a63",
"bugs": {
"url": "https://github.com/shinnn/spdx-license-ids/issues"
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"_npmVersion": "6.4.1",
"_nodeVersion": "10.10.0",
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"email": "snnskwtnb@gmail.com"
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"email": "snnskwtnb@gmail.com"
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w==",
"shasum": "e2a303236cac54b04031fa7a5a79c7e701df852f",
"tarball": "https://registry.npmjs.org/spdx-license-ids/-/spdx-license-ids-3.0.1.tgz",
"fileCount": 4,
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},
"directories": {},
"_npmOperationalInternal": {
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"_hasShrinkwrap":
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"version": "3.0.2",
"description": "A list of SPDX license identifiers",
"repository": {
"type": "git",
"url": "git+https://github.com/shinnn/spdx-license-ids.git"
},
"author": {
"name": "Shinnosuke Watanabe",
"url": "https://github.com/shinnn"
},
"license": "CC0-1.0",
"scripts": {
"build": "node build.js",
"pretest": "eslint .",
"test": "node test.js"
},
"keywords": [
"spdx",
"license",
"licenses",
"id",
"identifier",
"identifiers",
"json",
"array",
"oss"
],
"devDependencies": {
"@shinnn/eslint-config": "^6.8.0",
"chalk": "^2.4.1",
"eslint": "^5.8.0",
"get-spdx-license-ids": "^2.1.0",

"rmfr": "^2.0.0",
"tape": "^4.9.1"
},
"eslintConfig": {
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"@shinnn"
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"gitHead": "5db0a9a2e8b8d2d2aa4ee0faed5886b7b0939ff2",
"bugs": {
"url": "https://github.com/shinnn/spdx-license-ids/issues"
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"homepage": "https://github.com/shinnn/spdx-license-ids#readme",
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"_npmVersion": "6.4.1",
"_nodeVersion": "11.0.0",
"_npmUser": {
"name": "shinnn",
"email": "snnskwtnb@gmail.com"
},
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atYg==",
"shasum": "a59efc09784c2a5bada13cfeaf5c75dd214044d2",
"tarball": "https://registry.npmjs.org/spdx-license-ids/-/spdx-license-ids-3.0.2.tgz",
"fileCount": 4,
"unpackedSize": 7760,
"npm-signature": "-----BEGIN PGP SIGNATURE-----\r\nVersion: OpenPGP.js v3.0.4\r\nComment:
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PGP SIGNATURE-----\r\n"
},
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{
"name": "shinnn",
"email": "snnskwtnb@gmail.com"
}
],
"directories": {},
"_npmOperationalInternal": {

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"3.0.3": {
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  "version": "3.0.3",
  "description": "A list of SPDX license identifiers",
  "repository": {
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    "url": "git+https://github.com/shinnn/spdx-license-ids.git"
  },
  "author": {
    "name": "Shinnosuke Watanabe",
    "url": "https://github.com/shinnn"
  },
  "license": "CC0-1.0",
  "scripts": {
    "build": "node build.js",
    "pretest": "eslint .",
    "test": "node test.js"
  },
  "keywords": [
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    "licenses",
    "id",
    "identifier",
    "identifiers",
    "json",
    "array",
    "oss"
  ],
  "devDependencies": {
    "@shinnn/eslint-config": "^6.8.7",
    "chalk": "^2.4.1",
    "eslint": "^5.10.0",
    "get-spdx-license-ids": "^2.1.0",
    "rmfr": "^2.0.0",
    "tape": "^4.9.1"

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  "eslintConfig": {
    "extends": "@shinnn"
  },
  "gitHead": "9a23c2a5f1f6371ed61fc0ca81b79143020e027a",
  "bugs": {
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"url": "https://github.com/shinnn/spdx-license-ids/issues"
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"_npmVersion": "6.5.0",
"_nodeVersion": "11.5.0",
"_npmUser": {
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"email": "snnskwtnb@gmail.com"
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"maintainers": [
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"email": "snnskwtnb@gmail.com"
}
],
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g==",
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"directories": {},
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"version": "3.0.4",

"description": "A list of SPDX license identifiers",
"repository": {
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"url": "git+https://github.com/shinnn/spdx-license-ids.git"
},
"author": {
"name": "Shinnosuke Watanabe",
"url": "https://github.com/shinnn"
},
"license": "CC0-1.0",
"scripts": {
"build": "node build.js",
"pretest": "eslint .",
"test": "node test.js"
},
"keywords": [
"spdx",
"license",
"licenses",
"id",
"identifier",
"identifiers",
"json",
"array",
"oss"
],
"devDependencies": {
"@shinnn/eslint-config": "^6.8.7",
"chalk": "^2.4.1",
"eslint": "^5.10.0",
"get-spdx-license-ids": "^2.1.0",
"rmfr":
"^2.0.0",
"tape": "^4.9.1"
},
"eslintConfig": {
"extends": "@shinnn"
},
"gitHead": "09f914ab6c75354b80c18d8343c5dbbd210adcb3",
"bugs": {
"url": "https://github.com/shinnn/spdx-license-ids/issues"
},
"homepage": "https://github.com/shinnn/spdx-license-ids#readme",
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"_nodeVersion": "11.13.0",
"_npmVersion": "6.9.0",
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"email": "snnskwtnb@gmail.com"
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"maintainers": [
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"email": "snnskwtnb@gmail.com"
}
],
"dist": {
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"shasum": "75ecd1a88de8c184ef015eafb51b5b48bfd11bb1",
"tarball": "https://registry.npmjs.org/spdx-license-ids/-/spdx-license-ids-3.0.4.tgz",
"fileCount": 4,
"unpackedSize": 7903,

"npm-signature": "-----BEGIN PGP SIGNATURE-----\r\nVersion: OpenPGP.js v3.0.4\r\nComment: https://openpgpjs.org\r\n\r\nwsFcBAEBCAAQBQJcqK7cCRA9TVsSAnZWagAALWMP/1nr34W51ig8XQFRGAEY\n+TwOah3IAE5kQ5QEi047RtiPU66qGKmBRHZE0+rgRrcoIwIlPEUO7kKMt4RZ\n6jKTQ5QeLKst88NOQIzxJsRam85r5/fakCvdXjE+4mnVqYoI7kWLnnl7RTB/\n/VDpZONMgfdV3G2vTnf/OojDnz/7zhgQih/H7iA32WY5kzyF8fAY7/WvMjBc\nI3A1M47vmUTPyYv45qjZ5z7TC7b1wz3omatNnMVE0Mf1XIBTv/JJzyhXdZ9F\ndCuDuIQNEPZZKj3FTY/b28f76VxkuUohgxFWjRf97ge7Oi7XOBjw1JkHCHY/\nc4cmj0bJ4dlHVfvlgMJb2G+8dhhxj4GwBiF+c4enKSiIO/jR/51wPbGagbYS\nOoKpF1HqHA1CskPSeeqpk8rH2aO5CJafsWSFWQa//13HqD9L9Fo7mZsn8uaD\nwPO7v3PcJS7R2wqKtF14DUndyKDp3F8Da3gmXW9wH21T5Df2ZX2MCoCzkHdE\nCj3DCV36QLJGW9rLCJ4neoBjkfKz6ifZ7nwPFITQ2xtXG4artemSMHAXQpnC\n1SN9RICQzRQ1m14p316fQTAovWbmXpB0Ysohhuk7oMappntvjiMnZu21k6LG\nuBiFdoIzjbeX/wla4cmqeYh+9Nyf16VGAbY7AwMvU6sU3yNvfnKntBEIzT1R\nLxCB\r\n=sw+A\r\n-----END PGP SIGNATURE-----\r\n"
},
"directories": {},
"_npmOperationalInternal": {
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},
"_hasShrinkwrap": false
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"version": "3.0.5",
"description": "A list of SPDX license identifiers",
"repository": {
"type": "git",
"url": "git+https://github.com/shinnn/spdx-license-ids.git"
},
"author": {
"name": "Shinnosuke Watanabe",
"url": "https://github.com/shinnn"

},
"license": "CC0-1.0",
"scripts": {
"build": "node build.js",
"pretest": "eslint .",
"test": "node test.js"
},
"keywords": [
"spdx",
"license",
"licenses",
"id",
"identifier",
"identifiers",
"json",
"array",
"oss"
],
"devDependencies": {
"@shinnn/eslint-config": "^6.8.7",
"chalk": "^2.4.1",
"eslint": "^5.10.0",
"get-spdx-license-ids":
"^2.1.0",
"rmfr": "^2.0.0",
"tape": "^4.9.1"
},
"eslintConfig": {
"extends": "@shinnn"
},
"gitHead": "2bc004aae6f30d625d3aad95eac09d9aaf1c97cc",
"bugs": {
"url": "https://github.com/shinnn/spdx-license-ids/issues"
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"homepage": "https://github.com/shinnn/spdx-license-ids#readme",
"_id": "spdx-license-ids@3.0.5",
"_nodeVersion": "12.6.0",
"_npmVersion": "6.10.0",
"_npmUser": {
"name": "shinnn",
"email": "snnskwtnb@gmail.com"
},
"dist": {
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Q==",
"shasum": "3694b5804567a458d3c8045842a6358632f62654",
"tarball": "https://registry.npmjs.org/spdx-license-ids/-/spdx-license-ids-3.0.5.tgz",

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"unpackedSize": 8027,
"npm-signature": "-----BEGIN PGP SIGNATURE-----\r\nVersion: OpenPGP.js
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},
"maintainers": [
{
"name": "shinnn",
"email": "snnskwtnb@gmail.com"
}
],
"directories": {},

"_npmOperationalInternal": {
"host": "s3://npm-registry-packages",
"tmp": "tmp/spdx-license-ids_3.0.5_1562834201821_0.7906489918867339"
},
"_hasShrinkwrap": false
},
"3.0.6": {
"name": "spdx-license-ids",
"version": "3.0.6",
"description": "A list of SPDX license identifiers",
"repository": {
"type": "git",
"url": "git+https://github.com/jslicense/spdx-license-ids.git"
},
"author": {
"name": "Shinnosuke Watanabe",
"url": "https://github.com/shinnn"
},
"license": "CC0-1.0",
"scripts": {
"build": "node build.js",
"pretest": "eslint .",
"test": "node test.js"
},
"keywords": [

"spdx",
"license",
"licenses",
"id",
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"json",
"array",
"oss"
],
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"name": "spdx-license-ids",
"version": "1.1.0",
"devDependencies": {
"@shinnn/eslintrc": "^1.0.0",
"each-async": "^1.1.1",
"eslint": "^0.24.0",
"got": "^3.3.0",
"istanbul": "^0.3.17",
"require-bower-files": "^2.0.0",
"rimraf": "^2.4.1",
"stringify-object": "^2.2.0",
"tape": "^4.0.0"
},
"dist": {
"shasum": "28694acdf39fe27de45143fff81f21f6c66d44ac",
"tarball": "https://registry.npmjs.org/spdx-license-ids/-/spdx-license-ids-1.1.0.tgz"
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},
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"name": "spdx-license-ids",
"version": "1.2.0",
"devDependencies": {

"@shinnn/eslintrc": "^1.0.0",
"each-async": "^1.1.1",
"eslint": "^0.24.0",
"got": "^3.3.0",
"istanbul": "^0.3.17",
"require-bower-files": "^2.0.0",
"rimraf": "^2.4.1",
"stringify-object": "^2.2.0",
"tape": "^4.0.0"
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"dist": {
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"tarball": "https://registry.npmjs.org/spdx-license-ids/-/spdx-license-ids-1.2.0.tgz"
}
},
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"name": "spdx-license-ids",
"version": "1.2.1",
"devDependencies": {
"@shinnn/eslint-config-node": "^2.0.0",
"chalk": "^1.1.3",
"eslint":
"^2.7.0",
"get-spdx-license-ids": "^1.0.0",
"istanbul": "^0.4.3",
"loud-rejection": "^1.3.0",
"rimraf-promise": "^2.0.0",
"stringify-object": "^2.3.1",
"tap-spec": "^4.1.1",
"tape": "^4.5.1",
"write-file-atomically": "1.0.0"
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"dist": {
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"tarball": "https://registry.npmjs.org/spdx-license-ids/-/spdx-license-ids-1.2.1.tgz"
}
},
"1.2.2": {
"name": "spdx-license-ids",
"version": "1.2.2",
"devDependencies": {
"@shinnn/eslint-config-node": "^3.0.0",
"chalk": "^1.1.3",
"eslint": "^3.1.1",
"get-spdx-license-ids": "^1.0.0",
"istanbul": "^0.4.4",
"loud-rejection": "^1.6.0",
"rimraf-promise": "^2.0.0",

"stringify-object": "^2.4.0",
"tap-spec": "^4.1.1",
"tape": "^4.6.0",
"write-file-atomically": "1.0.0"
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"dist": {

"shasum": "c9df7a3424594ade6bd11900d596696dc06bac57",
"tarball": "https://registry.npmjs.org/spdx-license-ids/-/spdx-license-ids-1.2.2.tgz"
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"version": "2.0.0",
"devDependencies": {
"@shinnn/eslint-config-node": "^3.0.0",
"chalk": "^1.1.3",
"eslint": "^3.10.2",
"get-spdx-license-ids": "^1.0.0",
"istanbul": "^0.4.5",
"loud-rejection": "^1.6.0",
"rmfr": "^1.0.1",
"stringify-object": "^3.0.0",
"tape": "^4.6.2",
"write-file-atomically": "1.0.0"
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"dist": {
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"tarball": "https://registry.npmjs.org/spdx-license-ids/-/spdx-license-ids-2.0.0.tgz"
}
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"2.0.1": {
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"version": "2.0.1",
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"chalk": "^1.1.3",
"eslint":
"^3.10.2",
"get-spdx-license-ids": "^1.0.0",
"istanbul": "^0.4.5",
"loud-rejection": "^1.6.0",
"rmfr": "^1.0.1",
"stringify-object": "^3.0.0",
"tape": "^4.6.2",
"write-file-atomically": "1.0.0"
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"dist": {

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"tarball": "https://registry.npmjs.org/spdx-license-ids/-/spdx-license-ids-2.0.1.tgz"
}
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"version": "3.0.0-0",
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"chalk": "^2.0.1",
"eslint": "^4.3.0",
"get-spdx-license-ids": "^1.1.0",
"istanbul": "^0.4.5",
"loud-rejection": "^1.6.0",
"rmfr": "^1.0.3",
"stringify-object": "^3.2.0",
"tape": "^4.8.0",
"write-file-atomically": "^1.0.0"
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"dist": {
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"shasum": "b7e47584254ade1cca1f69344fc37457f961f341",
"tarball": "https://registry.npmjs.org/spdx-license-ids/-/spdx-license-ids-3.0.0-0.tgz"
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"3.0.0-1": {
"name": "spdx-license-ids",
"version": "3.0.0-1",
"devDependencies": {
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"chalk": "^2.3.0",
"eslint": "^4.16.0",
"get-spdx-license-ids": "^2.1.0",
"loud-rejection": "^1.6.0",
"rmfr": "^2.0.0-3",
"tape": "^4.8.0",
"write-file-atomically": "^1.0.0"
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"shasum": "500d099bdb7f6c58678e2869e9444d13fac528fa",
"tarball": "https://registry.npmjs.org/spdx-license-ids/-/spdx-license-ids-3.0.0-1.tgz"
}
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"version": "3.0.0",

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"chalk": "^2.3.0",
"eslint": "^4.16.0",
"get-spdx-license-ids": "^2.1.0",
"log-symbols": "^2.2.0",
"loud-rejection": "^1.6.0",
"rmfr": "^2.0.0-3",
"tape": "^4.8.0",
"write-file-atomically": "^1.0.0"
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"dist": {
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"shasum": "7a7cd28470cc6d3a1cfe6d66886f6bc430d3ac87",
"tarball": "https://registry.npmjs.org/spdx-license-ids/-/spdx-license-ids-3.0.0.tgz"
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"name": "spdx-license-ids",
"version": "3.0.1",
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"chalk": "^2.4.1",
"eslint": "^5.4.0",
"get-spdx-license-ids": "^2.1.0",
"rmfr": "^2.0.0",
"tape": "^4.9.1"
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"dist": {
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"tarball": "https://registry.npmjs.org/spdx-license-ids/-/spdx-license-ids-3.0.1.tgz",
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"unpackedSize": 7683,
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  },
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    "version": "3.0.2",
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      "chalk": "^2.4.1",
      "eslint": "^5.8.0",
      "get-spdx-license-ids": "^2.1.0",
      "rmfr": "^2.0.0",
      "tape": "^4.9.1"
    },
    "dist": {
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      "shasum": "a59efc09784c2a5bada13cfeaf5c75dd214044d2",
      "tarball": "https://registry.npmjs.org/spdx-license-ids/-/spdx-license-ids-3.0.2.tgz",
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      "unpackedSize": 7760,
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  },
  "3.0.3": {
    "name": "spdx-license-ids",
    "version": "3.0.3",
    "devDependencies": {
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      "chalk": "^2.4.1",

"eslint": "^5.10.0",
"get-spdx-license-ids": "^2.1.0",
"rmfr": "^2.0.0",
"tape": "^4.9.1"
},
"dist": {
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"shasum": "81c0ce8f21474756148bbb5f3bfc0f36bf15d76e",
"tarball": "https://registry.npmjs.org/spdx-license-ids/-/spdx-license-ids-3.0.3.tgz",
"fileCount": 4,
"unpackedSize": 7785,
"npm-signature": "-----BEGIN PGP SIGNATURE-----\r\nVersion: OpenPGP.js v3.0.4\r\nComment:
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"3.0.4": {
"name": "spdx-license-ids",
"version": "3.0.4",
"devDependencies": {
"@shinnn/eslint-config": "^6.8.7",
"chalk": "^2.4.1",
"eslint": "^5.10.0",
"get-spdx-license-ids": "^2.1.0",
"rmfr": "^2.0.0",
"tape": "^4.9.1"
},
"dist": {
"integrity": "sha512-
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A==",
"shasum": "75ecd1a88de8c184ef015eafb51b5b48bfd11bb1",
"tarball": "https://registry.npmjs.org/spdx-license-ids/-/spdx-license-ids-3.0.4.tgz",
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    }
  },

 "3.0.5": {
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    "version": "3.0.5",
    "devDependencies": {
      "@shinnn/eslint-config": "^6.8.7",
      "chalk": "^2.4.1",
      "eslint": "^5.10.0",
      "get-spdx-license-ids": "^2.1.0",
      "rmfr": "^2.0.0",
      "tape": "^4.9.1"
    },
    "dist": {
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Q==",
      "shasum": "3694b5804567a458d3c8045842a6358632f62654",
      "tarball": "https://registry.npmjs.org/spdx-license-ids/-/spdx-license-ids-3.0.5.tgz",
      "fileCount": 4,
      "unpackedSize": 8027,
      "npm-signature": "-----BEGIN PGP SIGNATURE-----\r\nVersion: OpenPGP.js v3.0.4\r\nComment:
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    }
  },
  "3.0.6": {
    "name": "spdx-license-ids",
    "version": "3.0.6",

"devDependencies": {
"@shinnn/eslint-config": "^6.8.7",
"chalk": "^2.4.1",
"eslint": "^5.10.0",
"get-spdx-license-ids": "^2.1.0",
"rmfr": "^2.0.0",
"tape": "^4.9.1"
},
"dist": {
"integrity": "sha512-
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"shasum": "c80757383c28abf7296744998cbc106ae8b854ce",
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"name": "Brian Jenkins",
"email": "bonkydog@github.com"
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public domain
validate-npm-package-license
==========

Give me a string and I'll tell you if it's a valid npm package license string.

```javascript
var valid = require('validate-npm-package-license');
```

SPDX license identifiers are valid license strings:

```javascript
```

```
var assert = require('assert');
var validSPDXExpression = {
 validForNewPackages: true,
 validForOldPackages: true,
 spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
```
The function will return a warning and suggestion for nearly-correct license identifiers:

```javascript
assert.deepEqual(
 valid('Apache 2.0'),
 {
   validForOldPackages: false,
   validForNewPackages: false,
   warnings: [
     'license should be ' +
     'a valid SPDX license expression (without "LicenseRef"), ' +
     '"UNLICENSED", or ' +
      '"SEE LICENSE IN <filename>"',
     'license is similar to the valid expression "Apache-2.0"'
   ]
 }
);
```

SPDX expressions are valid, too ...

```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
 valid('(GPL-3.0-only OR BSD-2-Clause)'),
 validSPDXExpression
);
```

... except if they contain `LicenseRef`:

```javascript
var warningAboutLicenseRef = {
 validForOldPackages: false,
 validForNewPackages: false,
```

```
 spdx: true,
 warnings: [
   'license should be ' +
   'a valid SPDX license expression (without "LicenseRef"), ' +
   '"UNLICENSED", or ' +
   '"SEE LICENSE IN <filename>"',
 ]
};

assert.deepEqual(
 valid('LicenseRef-Made-Up'),
 warningAboutLicenseRef
);

assert.deepEqual(
 valid('(MIT OR LicenseRef-Made-Up)'),
 warningAboutLicenseRef
);
```

If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```javascript
assert.deepEqual(
 valid('SEE
 LICENSE IN LICENSE.txt'),
 {
   validForNewPackages: true,
   validForOldPackages: true,
   inFile: 'LICENSE.txt'
 }
);

assert.deepEqual(
 valid('SEE LICENSE IN license.md'),
 {
   validForNewPackages: true,
   validForOldPackages: true,
   inFile: 'license.md'
 }
);
```

If there aren't any licensing terms, use `UNLICENSED`:

```javascript
var unlicensed = {
```

```
 validForNewPackages: true,
 validForOldPackages: true,
 unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);
```
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1.5546 libsensors5 3.6.0-9build1

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* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
* Merlin Hughes
  Original author of sensord.
* Bob Schlaermann
  Dynamic chip feature detection (a.k.a. generic chip support) in
  libsensors and sensors.
* Mark M. Hoffman
  Many improvements to the libsensors configuration file scanner.
* Jean Delvare
  New libsensors API, and migration of sensors and sensord thereto.
  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.

Support for multiple configuration files in libsensors.

1.5547 libsensors-config 3.6.0-9build1

1.5547.1 Available under license :

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Python License
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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called
ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
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2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
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Mersenne Twister

The `_random' module includes code based on a download from
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following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp

Sockets

The `socket' module uses the functions, `getaddrinfo', and
`getnameinfo',
which are coded in separate source files from the WIDE
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with python standard

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* /opt/cola/permits/2287527520_1733241493.12499/0/flyway-core-10-20-1-sources-jar/org/flywaydb/core/api/output/RepairResult.java

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* /opt/cola/permits/2287527520_1733241493.12499/0/flyway-core-10-20-1-sources-jar/org/flywaydb/core/api/output/OperationResultBase.java
* /opt/cola/permits/2287527520_1733241493.12499/0/flyway-core-10-20-1-sources-jar/org/flywaydb/core/experimental/migration/ExperimentalMigrationInfoFilter.java
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1.5552 postgre-sql 17.2

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1.5555 py3-certifi 2024.8.30-r0

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This is a bundle of X.509 certificates of public Certificate Authorities
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https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
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1.5561 golang 1.22.10

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1.5569 redis 5.2.1

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1.5572 tonistiigi-dchapes-mode 0.0.0-20241001053921-ca0759fec205

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1.5574 awscrt 0.23.3

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1.5576 aws-c-common 0.10.5-r0

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** cJSON; version 1.7.16 -- https://github.com/DaveGamble/cJSON
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1.5577 aws-cli 2.22.10-r0

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```
{
 "version":"2.0",
 "metadata":{
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   "endpointPrefix":"license-manager",
   "jsonVersion":"1.1",
   "protocol":"json",
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"documentation":" Checks in the specified license. Check in a license when it is no longer in use. "
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"documentation":" Checks out the specified license for offline use. "

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{"shape":"RedirectException"},
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{"shape":"RateLimitExceededException"},
{"shape":"ServerInternalException"}
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"documentation":" Checks out the specified license. <note> If the account that created the license is the same that is performing the check out, you must specify the account as the beneficiary. </note>"
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"method":"POST",
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],
"documentation":" Creates a grant for the specified license. A grant shares the use of license entitlements with a specific Amazon Web Services account, an organization, or an organizational unit (OU). For more information, see Granted licenses in License Manager in the License Manager User Guide. "
},
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"documentation":" Creates a new version of the specified grant. For more information, see Granted licenses in License Manager in the License Manager User Guide. "
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],
"documentation":" Creates a license configuration. A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, Dedicated Instance,
Dedicated Host, or all of these), license affinity to host (how long a license must be associated with a host), and the number of licenses purchased and used. "
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    "documentation":"<p>Creates a long-lived
 token.</p> <p>A refresh token is a JWT token used to get an access token. With an access token, you can call
AssumeRoleWithWebIdentity to get role credentials that you can use to call License Manager to manage the
specified license.</p>"
  },
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```

```
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{"shape":"AuthorizationException"},
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"documentation":" Deletes the specified license configuration. You cannot delete a license configuration that is in use. "
},
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"documentation":" Deletes the specified report generator. This action deletes the report generator, which stops it from generating future reports. The action cannot be reversed. It has no effect on the previous reports from this generator. "
},
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"documentation":" Deletes the specified token. Must be called in the license home Region. "
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"documentation":" Extends the expiration date for license consumption. "
},
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"documentation":" Gets a temporary access token to use with AssumeRoleWithWebIdentity. Access tokens are valid for one hour. "
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"documentation":" Gets detailed information about the specified grant. "
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  "documentation":"<p>Gets information about the specified report generator.</p>"
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{"shape":"ServerInternalException"}
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"documentation":" Gets detailed information about the usage of the specified license. "
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"documentation":" Gets the License Manager settings for the current Region. "
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{"shape":"RateLimitExceededException"}
],
"documentation":" Lists the resource associations for the specified license configuration. Resource associations need not consume licenses from a license configuration. For example, an AMI or a stopped instance might not consume a license (depending on the license rules). "
},
"ListDistributedGrants":{
"name":"ListDistributedGrants",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListDistributedGrantsRequest"},
"output":{"shape":"ListDistributedGrantsResponse"},

"errors":[
{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"ResourceLimitExceededException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Lists the grants distributed for the specified license. "
},
"ListFailuresForLicenseConfigurationOperations":{
"name":"ListFailuresForLicenseConfigurationOperations",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListFailuresForLicenseConfigurationOperationsRequest"},
"output":{"shape":"ListFailuresForLicenseConfigurationOperationsResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Lists the license configuration operations that failed. "
},
"ListLicenseConfigurations":{
"name":"ListLicenseConfigurations",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListLicenseConfigurationsRequest"},
"output":{"shape":"ListLicenseConfigurationsResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"FilterLimitExceededException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Lists the license configurations for your account. "
},
"ListLicenseConversionTasks":{
"name":"ListLicenseConversionTasks",

```
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseConversionTasksRequest"},
  "output":{"shape":"ListLicenseConversionTasksResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
     {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Lists the license type conversion tasks for your account.</p>"
},
"ListLicenseManagerReportGenerators":{
  "name":"ListLicenseManagerReportGenerators",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseManagerReportGeneratorsRequest"},
  "output":{"shape":"ListLicenseManagerReportGeneratorsResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"AccessDeniedException"},
    {"shape":"ResourceNotFoundException"}
   ],
  "documentation":"<p>Lists the report generators for your account.</p>"
},
"ListLicenseSpecificationsForResource":{
  "name":"ListLicenseSpecificationsForResource",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseSpecificationsForResourceRequest"},
  "output":{"shape":"ListLicenseSpecificationsForResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
```

{"shape":"RateLimitExceededException"}
],
"documentation":" Describes the license configurations for the specified resource. "
},
"ListLicenseVersions":{
"name":"ListLicenseVersions",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListLicenseVersionsRequest"},
"output":{"shape":"ListLicenseVersionsResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"},
{"shape":"ServerInternalException"}
],
"documentation":" Lists all versions of the specified license. "
},
"ListLicenses":{
"name":"ListLicenses",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListLicensesRequest"},
"output":{"shape":"ListLicensesResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"},
{"shape":"ServerInternalException"}
],
"documentation":" Lists the licenses for your account. "
},
"ListReceivedGrants":{
"name":"ListReceivedGrants",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListReceivedGrantsRequest"},
"output":{"shape":"ListReceivedGrantsResponse"},
"errors":[

{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"ResourceLimitExceededException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Lists grants that are received. Received grants are grants created while specifying the recipient as this Amazon Web Services account, your organization, or an organizational unit (OU) to which this member account belongs. "
},
"ListReceivedGrantsForOrganization":{
"name":"ListReceivedGrantsForOrganization",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListReceivedGrantsForOrganizationRequest"},
"output":{"shape":"ListReceivedGrantsForOrganizationResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"ResourceLimitExceededException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Lists the grants received for all accounts in the organization. "
},
"ListReceivedLicenses":{
"name":"ListReceivedLicenses",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListReceivedLicensesRequest"},
"output":{"shape":"ListReceivedLicensesResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"ResourceLimitExceededException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],

"documentation":" Lists received licenses. "
},
"ListReceivedLicensesForOrganization":{
"name":"ListReceivedLicensesForOrganization",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListReceivedLicensesForOrganizationRequest"},
"output":{"shape":"ListReceivedLicensesForOrganizationResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"ResourceLimitExceededException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Lists the licenses received for all accounts in the organization. "
},
"ListResourceInventory":{
"name":"ListResourceInventory",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListResourceInventoryRequest"},
"output":{"shape":"ListResourceInventoryResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"FilterLimitExceededException"},
{"shape":"FailedDependencyException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Lists resources managed using Systems Manager inventory. "
},
"ListTagsForResource":{
"name":"ListTagsForResource",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListTagsForResourceRequest"},
"output":{"shape":"ListTagsForResourceResponse"},

"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Lists the tags for the specified license configuration. "
},
"ListTokens":{
"name":"ListTokens",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListTokensRequest"},
"output":{"shape":"ListTokensResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"},
{"shape":"ServerInternalException"}
],
"documentation":" Lists your tokens. "
},
"ListUsageForLicenseConfiguration":{
"name":"ListUsageForLicenseConfiguration",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListUsageForLicenseConfigurationRequest"},
"output":{"shape":"ListUsageForLicenseConfigurationResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"FilterLimitExceededException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Lists all license usage records for a license configuration, displaying license consumption details by resource at a selected point in time. Use this action to audit the current license consumption for any license inventory and configuration. "
},
"RejectGrant":{
"name":"RejectGrant",

```
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"RejectGrantRequest"},
  "output":{"shape":"RejectGrantResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
     {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"}
  ],
  "documentation":"<p>Rejects the specified grant.</p>"
},
"TagResource":{
  "name":"TagResource",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"TagResourceRequest"},
  "output":{"shape":"TagResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Adds the specified tags to the specified license configuration.</p>"
},
"UntagResource":{
  "name":"UntagResource",
  "http":{
    "method":"POST",
     "requestUri":"/"
  },
  "input":{"shape":"UntagResourceRequest"},
  "output":{"shape":"UntagResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
```

```
    ],
    "documentation":"<p>Removes the specified tags from the specified license configuration.</p>"
  },
  "UpdateLicenseConfiguration":{
    "name":"UpdateLicenseConfiguration",
    "http":{
      "method":"POST",
      "requestUri":"/"
    },
    "input":{"shape":"UpdateLicenseConfigurationRequest"},
    "output":{"shape":"UpdateLicenseConfigurationResponse"},
    "errors":[
      {"shape":"InvalidParameterValueException"},
      {"shape":"ServerInternalException"},
      {"shape":"AuthorizationException"},
      {"shape":"AccessDeniedException"},
      {"shape":"RateLimitExceededException"},
       {"shape":"ResourceLimitExceededException"}
    ],
    "documentation":"<p>Modifies the attributes of an existing license configuration.</p>"
  },
  "UpdateLicenseManagerReportGenerator":{
    "name":"UpdateLicenseManagerReportGenerator",
    "http":{
      "method":"POST",
      "requestUri":"/"
    },
    "input":{"shape":"UpdateLicenseManagerReportGeneratorRequest"},
    "output":{"shape":"UpdateLicenseManagerReportGeneratorResponse"},
    "errors":[
      {"shape":"ValidationException"},
      {"shape":"InvalidParameterValueException"},
      {"shape":"RateLimitExceededException"},
      {"shape":"ServerInternalException"},
      {"shape":"AuthorizationException"},
      {"shape":"AccessDeniedException"},
      {"shape":"ResourceNotFoundException"},
      {"shape":"ResourceLimitExceededException"}
    ],
    "documentation":"<p>Updates a report generator.</p> <p>After you make changes to a report generator, it
starts generating new reports within 60 minutes of being updated.</p>"
  },
  "UpdateLicenseSpecificationsForResource":{
    "name":"UpdateLicenseSpecificationsForResource",
    "http":{
      "method":"POST",
      "requestUri":"/"
    },
```

"input":{"shape":"UpdateLicenseSpecificationsForResourceRequest"},
"output":{"shape":"UpdateLicenseSpecificationsForResourceResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"InvalidResourceStateException"},
{"shape":"LicenseUsageException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Adds or removes the specified license configurations for the specified Amazon Web Services resource. You can update the license specifications of AMIs, instances, and hosts. You cannot update the license specifications
for launch templates and CloudFormation templates, as they send license configurations to the operation that creates the resource. "
},
"UpdateServiceSettings":{
"name":"UpdateServiceSettings",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"UpdateServiceSettingsRequest"},
"output":{"shape":"UpdateServiceSettingsResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Updates License Manager settings for the current Region. "
}
},
"shapes":{
"AcceptGrantRequest":{
"type":"structure",
"required":["GrantArn"],
"members":{
"GrantArn":{
"shape":"Arn",
"documentation":" Amazon Resource Name (ARN) of the grant. "
}
}
},
"AcceptGrantResponse":{
"type":"structure",

```
  "members":{
    "GrantArn":{
      "shape":"Arn",
      "documentation":"<p>Grant ARN.</p>"
    },
    "Status":{
      "shape":"GrantStatus",
      "documentation":"<p>Grant status.</p>"
    },
    "Version":{
      "shape":"String",
      "documentation":"<p>Grant version.</p>"
    }
  }
},
"AccessDeniedException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>Access to resource denied.</p>",
  "exception":true
},
"ActivationOverrideBehavior":{
  "type":"string",
  "enum":[
    "DISTRIBUTED_GRANTS_ONLY",
    "ALL_GRANTS_PERMITTED_BY_ISSUER"
  ]
},
"AllowedOperation":{
  "type":"string",
  "enum":[
    "CreateGrant",
    "CheckoutLicense",
    "CheckoutBorrowLicense",
    "CheckInLicense",
    "ExtendConsumptionLicense",
     "ListPurchasedLicenses",
    "CreateToken"
  ]
},
"AllowedOperationList":{
  "type":"list",
  "member":{"shape":"AllowedOperation"},
  "max":7,
  "min":1
},
```

"Arn":{
"type":"string",
"max":2048,
"pattern":"^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
},
"ArnList":{
"type":"list",
"member":{"shape":"Arn"}
},
"AuthorizationException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"documentation":" The Amazon Web Services user account does not have permission to perform the action. Check the IAM policy associated with this account. ",
"exception":true
},
"AutomatedDiscoveryInformation":{
"type":"structure",
"members":{
"LastRunTime":{
"shape":"DateTime",
"documentation":" Time that automated discovery last ran. "
}
},
"documentation":" Describes automated discovery. "
},
"Boolean":{"type":"boolean"},
"BorrowConfiguration":{
"type":"structure",
"required":[
"AllowEarlyCheckIn",
"MaxTimeToLiveInMinutes"
],
"members":{
"AllowEarlyCheckIn":{
"shape":"BoxBoolean",
"documentation":" Indicates whether early check-ins are allowed. "
},
"MaxTimeToLiveInMinutes":{
"shape":"BoxInteger",
"documentation":" Maximum time for the borrow configuration, in minutes. "
}
},
"documentation":" Details about a borrow configuration. "

```
  },
  "BoxBoolean":{"type":"boolean"},
  "BoxInteger":{"type":"integer"},
  "BoxLong":{"type":"long"},
  "CheckInLicenseRequest":{
    "type":"structure",
    "required":["LicenseConsumptionToken"],
    "members":{
      "LicenseConsumptionToken":{
        "shape":"String",
        "documentation":"<p>License consumption token.</p>"
      },
      "Beneficiary":{
        "shape":"String",
        "documentation":"<p>License beneficiary.</p>"
      }
    }
  },
  "CheckInLicenseResponse":{
    "type":"structure",
    "members":{
    }
  },
  "CheckoutBorrowLicenseRequest":{
    "type":"structure",
    "required":[
      "LicenseArn",
      "Entitlements",
      "DigitalSignatureMethod",
      "ClientToken"
    ],
    "members":{
      "LicenseArn":{
        "shape":"Arn",
        "documentation":"<p>Amazon Resource Name (ARN) of the license. The license must use the borrow
consumption configuration.</p>"
      },
      "Entitlements":{
        "shape":"EntitlementDataList",
        "documentation":"<p>License entitlements. Partial checkouts are not supported.</p>"
      },
      "DigitalSignatureMethod":{
        "shape":"DigitalSignatureMethod",

    "documentation":"<p>Digital signature method. The possible value is JSON Web Signature (JWS) algorithm
PS384. For more information, see <a href=\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital
Signature with RSASSA-PSS</a>.</p>"
      },
```

"NodeId":{
"shape":"String",
"documentation":" Node ID. "
},
"CheckoutMetadata":{
"shape":"MetadataList",
"documentation":" Information about constraints. "
},
"ClientToken":{
"shape":"ClientToken",
"documentation":" Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. "
}
}
},
"CheckoutBorrowLicenseResponse":{
"type":"structure",
"members":{
"LicenseArn":{
"shape":"Arn",
"documentation":" Amazon Resource Name (ARN) of the license. "
},
"LicenseConsumptionToken":{
"shape":"String",
"documentation":" License consumption token. "
},
"EntitlementsAllowed":{
"shape":"EntitlementDataList",
"documentation":" Allowed license entitlements. "
},
"NodeId":{
"shape":"String",
"documentation":" Node ID. "
},
"SignedToken":{
"shape":"SignedToken",
"documentation":" Signed token. "
},
"IssuedAt":{
"shape":"ISO8601DateTime",
"documentation":" Date and time at which the license checkout is issued. "
},
"Expiration":{
"shape":"ISO8601DateTime",
"documentation":" Date and time at which the license checkout expires. "
},
"CheckoutMetadata":{
"shape":"MetadataList",

"documentation":" Information about constraints. "
}
}
},
"CheckoutLicenseRequest":{
"type":"structure",
"required":[
"ProductSKU",
"CheckoutType",
"KeyFingerprint",
"Entitlements",
"ClientToken"
],
"members":{
"ProductSKU":{
"shape":"String",
"documentation":" Product SKU. "
},
"CheckoutType":{
"shape":"CheckoutType",
"documentation":" Checkout type. "
},
"KeyFingerprint":{
"shape":"String",
"documentation":" Key fingerprint identifying the license. "
},
"Entitlements":{
"shape":"EntitlementDataList",
"documentation":" License entitlements. "
},
"ClientToken":{
"shape":"ClientToken",
"documentation":" Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. "
},
"Beneficiary":{
"shape":"String",
"documentation":" License beneficiary. "
},
"NodeId":{
"shape":"String",
"documentation":" Node ID. "
}
}
},
"CheckoutLicenseResponse":{
"type":"structure",
"members":{

"CheckoutType":{
"shape":"CheckoutType",
"documentation":" Checkout type. "
},
"LicenseConsumptionToken":{
"shape":"String",
"documentation":" License consumption token. "
},
"EntitlementsAllowed":{
"shape":"EntitlementDataList",
"documentation":" Allowed license entitlements. "
},
"SignedToken":{
"shape":"SignedToken",
"documentation":" Signed token. "
},
"NodeId":{
"shape":"String",
"documentation":" Node ID. "
},
"IssuedAt":{
"shape":"ISO8601DateTime",
"documentation":" Date and time at which the license checkout is issued. "
},
"Expiration":{
"shape":"ISO8601DateTime",

"documentation":" Date and time at which the license checkout expires. "
},
"LicenseArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the checkout license. "
}
}
},
"CheckoutType":{
"type":"string",
"enum":[
"PROVISIONAL",
"PERPETUAL"
]
},
"ClientRequestToken":{
"type":"string",
"max":36,
"min":1
},
"ClientToken":{

"type":"string",
"max":2048,
"pattern":"\\S+"
},
"ConflictException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"documentation":" There was a conflict processing the request. Try your request again. ",
"exception":true
},
"ConsumedLicenseSummary":{
"type":"structure",
"members":{
"ResourceType":{
"shape":"ResourceType",
"documentation":" Resource type of the resource consuming a
license. "
},
"ConsumedLicenses":{
"shape":"BoxLong",
"documentation":" Number of licenses consumed by the resource. "
}
},
"documentation":" Details about license consumption. "
},
"ConsumedLicenseSummaryList":{
"type":"list",
"member":{"shape":"ConsumedLicenseSummary"}
},
"ConsumptionConfiguration":{
"type":"structure",
"members":{
"RenewType":{
"shape":"RenewType",
"documentation":" Renewal frequency. "
},
"ProvisionalConfiguration":{
"shape":"ProvisionalConfiguration",
"documentation":" Details about a provisional configuration. "
},
"BorrowConfiguration":{
"shape":"BorrowConfiguration",
"documentation":" Details about a borrow configuration. "
}
},
"documentation":" Details about a consumption configuration. "

```
  },
  "CreateGrantRequest":{
    "type":"structure",
   "required":[
     "ClientToken",
     "GrantName",
     "LicenseArn",
     "Principals",
     "HomeRegion",
     "AllowedOperations"
   ],
   "members":{
     "ClientToken":{
       "shape":"ClientToken",
       "documentation":"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the
request.</p>"
     },
     "GrantName":{
       "shape":"String",
       "documentation":"<p>Grant name.</p>"
     },
     "LicenseArn":{
       "shape":"Arn",
       "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
     },
     "Principals":{
       "shape":"PrincipalArnList",
       "documentation":"<p>The grant principals. You can specify one of the following as an Amazon Resource
Name (ARN):</p> <ul> <li> <p>An Amazon Web Services account, which includes only the account
specified.</p> </li> </ul> <ul> <li> <p>An organizational unit (OU), which
 includes all accounts in the OU.</p> </li> </ul> <ul> <li> <p>An organization, which will include all accounts
across your organization.</p> </li> </ul>"
     },
     "HomeRegion":{
       "shape":"String",
       "documentation":"<p>Home Region of the grant.</p>"
     },
     "AllowedOperations":{
       "shape":"AllowedOperationList",
       "documentation":"<p>Allowed operations for the grant.</p>"
     }
   }
  },
  "CreateGrantResponse":{
   "type":"structure",
   "members":{
     "GrantArn":{
       "shape":"Arn",
```

"documentation":" Grant ARN. "
},
"Status":{
"shape":"GrantStatus",
"documentation":" Grant status. "
},
"Version":{
"shape":"String",
"documentation":" Grant version. "
}
}
},
"CreateGrantVersionRequest":{
"type":"structure",
"required":[
"ClientToken",
"GrantArn"
],

"members":{
"ClientToken":{
"shape":"ClientToken",
"documentation":" Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. "
},
"GrantArn":{
"shape":"Arn",
"documentation":" Amazon Resource Name (ARN) of the grant. "
},
"GrantName":{
"shape":"String",
"documentation":" Grant name. "
},
"AllowedOperations":{
"shape":"AllowedOperationList",
"documentation":" Allowed operations for the grant. "
},
"Status":{
"shape":"GrantStatus",
"documentation":" Grant status. "
},
"StatusReason":{
"shape":"StatusReasonMessage",
"documentation":" Grant status reason. "
},
"SourceVersion":{
"shape":"String",
"documentation":" Current version of the grant. "

```
    },
    "Options":{

    "shape":"Options",
      "documentation":"<p>The options specified for the grant.</p>"
    }
  }
},
"CreateGrantVersionResponse":{
  "type":"structure",
  "members":{
    "GrantArn":{
      "shape":"Arn",
      "documentation":"<p>Grant ARN.</p>"
    },
    "Status":{
      "shape":"GrantStatus",
      "documentation":"<p>Grant status.</p>"
    },
    "Version":{
      "shape":"String",
      "documentation":"<p>New version of the grant.</p>"
    }
  }
},
"CreateLicenseConfigurationRequest":{
  "type":"structure",
  "required":[
    "Name",
    "LicenseCountingType"
  ],
  "members":{
    "Name":{
      "shape":"String",
      "documentation":"<p>Name of the license configuration.</p>"
    },
    "Description":{
      "shape":"String",
      "documentation":"<p>Description of the license configuration.</p>"
    },
    "LicenseCountingType":{
       "shape":"LicenseCountingType",
      "documentation":"<p>Dimension used to track the license inventory.</p>"
    },
    "LicenseCount":{
      "shape":"BoxLong",
      "documentation":"<p>Number of licenses managed by the license configuration.</p>"
    },
```

"LicenseCountHardLimit":{
"shape":"BoxBoolean",
"documentation":" Indicates whether hard or soft license enforcement is used. Exceeding a hard limit blocks the launch of new instances. "
},
"LicenseRules":{
"shape":"StringList",
"documentation":" License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules vary by dimension, as follows.   <code>Cores</code> dimension: <code>allowedTenancy</code> | <code>licenseAffinityToHost</code> | <code>maximumCores</code> | <code>minimumCores</code>   <code>Instances</code> dimension: <code>allowedTenancy</code>
| <code>maximumCores</code> | <code>minimumCores</code> | <code>maximumSockets</code> | <code>minimumSockets</code> | <code>maximumVcpus</code> | <code>minimumVcpus</code>   <code>Sockets</code> dimension: <code>allowedTenancy</code> | <code>licenseAffinityToHost</code> | <code>maximumSockets</code> | <code>minimumSockets</code>   <code>vCPUs</code> dimension: <code>allowedTenancy</code> | <code>honorVcpuOptimization</code> | <code>maximumVcpus</code> | <code>minimumVcpus</code>   The unit for <code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are <code>True</code> and <code>False</code>. "
},
"Tags":{
"shape":"TagList",
"documentation":" Tags to add to the license configuration. "
},
"DisassociateWhenNotFound":{
"shape":"BoxBoolean",
"documentation":" When true, disassociates a resource when software is uninstalled. "
},
"ProductInformationList":{
"shape":"ProductInformationList",
"documentation":" Product information. "
}
}
},
"CreateLicenseConfigurationResponse":{
"type":"structure",
"members":{
"LicenseConfigurationArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the license configuration. "
}
}
},
"CreateLicenseConversionTaskForResourceRequest":{

"type":"structure",
"required":[
"ResourceArn",
"SourceLicenseContext",
"DestinationLicenseContext"
],
"members":{
"ResourceArn":{
"shape":"Arn",
"documentation":" Amazon Resource Name (ARN) of the resource you are converting
the license type for. "
},
"SourceLicenseContext":{
"shape":"LicenseConversionContext",
"documentation":" Information that identifies the license type you are converting from. For the structure of
the source license, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/conversion-
procedures.html#conversion-cli\">Convert a license type using the CLI in the License Manager User
Guide. "
},
"DestinationLicenseContext":{
"shape":"LicenseConversionContext",
"documentation":" Information that identifies the license type you are converting to. For the structure of the
destination license, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/conversion-
procedures.html#conversion-cli\">Convert a license type using the CLI in the License Manager User
Guide. "
}
}
},
"CreateLicenseConversionTaskForResourceResponse":{
"type":"structure",
"members":{
"LicenseConversionTaskId":{
"shape":"LicenseConversionTaskId",
"documentation":" The ID of the created license type conversion task. "
}
}
},
"CreateLicenseManagerReportGeneratorRequest":{
"type":"structure",
"required":[
"ReportGeneratorName",
"Type",
"ReportContext",
"ReportFrequency",
"ClientToken"
],
"members":{
"ReportGeneratorName":{

"shape":"ReportGeneratorName",
"documentation":" Name of the report generator. "
},
"Type":{
"shape":"ReportTypeList",
"documentation":" Type of reports to generate. The following report types an be generated: <ul> License configuration report - Reports the number and details of consumed licenses for a license configuration.   Resource report - Reports the tracked licenses and resource consumption for a license configuration. "
},
"ReportContext":{
"shape":"ReportContext",
"documentation":" Defines the type of license configuration the report generator tracks. "
},
"ReportFrequency":{
"shape":"ReportFrequency",
"documentation":" Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly. "
},
"ClientToken":{
"shape":"ClientRequestToken",
"documentation":" Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. "
},
"Description":{
"shape":"String",
"documentation":" Description of the report generator. "
},
"Tags":{
"shape":"TagList",
"documentation":" Tags to add to the report generator. "
}
}
},
"CreateLicenseManagerReportGeneratorResponse":{
"type":"structure",
"members":{
"LicenseManagerReportGeneratorArn":{
"shape":"String",
"documentation":" The Amazon Resource Name (ARN) of the new report generator. "
}
}
},
"CreateLicenseRequest":{
"type":"structure",
"required":[
"LicenseName",
"ProductName",

"ProductSKU",
"Issuer",
"HomeRegion",
"Validity",
"Entitlements",
"Beneficiary",
"ConsumptionConfiguration",
"ClientToken"
],
"members":{
"LicenseName":{
"shape":"String",
"documentation":" License name. "
},
"ProductName":{
"shape":"String",
"documentation":" Product name. "
},
"ProductSKU":{
"shape":"String",
"documentation":" Product SKU. "
},
"Issuer":{
"shape":"Issuer",
"documentation":" License issuer. "
},

"HomeRegion":{
"shape":"String",
"documentation":" Home Region for the license. "
},
"Validity":{
"shape":"DatetimeRange",
"documentation":" Date and time range during which the license is valid, in ISO8601-UTC format. "
},
"Entitlements":{
"shape":"EntitlementList",
"documentation":" License entitlements. "
},
"Beneficiary":{
"shape":"String",
"documentation":" License beneficiary. "
},
"ConsumptionConfiguration":{
"shape":"ConsumptionConfiguration",
"documentation":" Configuration for consumption of the license. Choose a provisional configuration for workloads running with continuous connectivity. Choose a borrow configuration for workloads with offline usage. "

```
      },
      "LicenseMetadata":{
        "shape":"MetadataList",
        "documentation":"<p>Information about the license.</p>"
       },
      "ClientToken":{
        "shape":"ClientToken",
        "documentation":"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the
request.</p>"
      }
    }
  },
  "CreateLicenseResponse":{
    "type":"structure",
    "members":{
      "LicenseArn":{
        "shape":"Arn",
        "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
      },
      "Status":{
        "shape":"LicenseStatus",
        "documentation":"<p>License status.</p>"
      },
      "Version":{
        "shape":"String",
        "documentation":"<p>License version.</p>"
      }
    }
  },
  "CreateLicenseVersionRequest":{
    "type":"structure",
    "required":[
      "LicenseArn",
      "LicenseName",
      "ProductName",
      "Issuer",
      "HomeRegion",
      "Validity",
      "Entitlements",
      "ConsumptionConfiguration",
      "Status",
      "ClientToken"
    ],

 "members":{
      "LicenseArn":{
        "shape":"Arn",
        "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
```

},
"LicenseName":{
"shape":"String",
"documentation":" License name. "
},
"ProductName":{
"shape":"String",
"documentation":" Product name. "
},
"Issuer":{
"shape":"Issuer",
"documentation":" License issuer. "
},
"HomeRegion":{
"shape":"String",
"documentation":" Home Region of the license. "
},
"Validity":{
"shape":"DatetimeRange",
"documentation":" Date and time range during which the license is valid, in ISO8601-UTC format. "
},
"LicenseMetadata":{
"shape":"MetadataList",
"documentation":" Information about the license. "
},
"Entitlements":{
"shape":"EntitlementList",
"documentation":" License
entitlements. "
},
"ConsumptionConfiguration":{
"shape":"ConsumptionConfiguration",
"documentation":" Configuration for consumption of the license. Choose a provisional configuration for workloads running with continuous connectivity. Choose a borrow configuration for workloads with offline usage. "
},
"Status":{
"shape":"LicenseStatus",
"documentation":" License status. "
},
"ClientToken":{
"shape":"ClientToken",
"documentation":" Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. "
},
"SourceVersion":{
"shape":"String",
"documentation":" Current version of the license. "

```
      }
    }
  },
  "CreateLicenseVersionResponse":{
    "type":"structure",
    "members":{
      "LicenseArn":{
        "shape":"Arn",
        "documentation":"<p>License
 ARN.</p>"
      },
      "Version":{
        "shape":"String",
        "documentation":"<p>New version of the license.</p>"
      },
      "Status":{
        "shape":"LicenseStatus",
        "documentation":"<p>License status.</p>"
      }
    }
  },
  "CreateTokenRequest":{
    "type":"structure",
    "required":[
      "LicenseArn",
      "ClientToken"
    ],
    "members":{
      "LicenseArn":{
        "shape":"Arn",
        "documentation":"<p>Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of
the JWT token.</p>"
      },
      "RoleArns":{
        "shape":"ArnList",
        "documentation":"<p>Amazon Resource Name (ARN) of the IAM roles to embed in the token. License
Manager does not check whether the roles are in use.</p>"
      },
      "ExpirationInDays":{
        "shape":"Integer",
        "documentation":"<p>Token expiration, in days, counted from token creation. The default is 365
 days.</p>"
      },
      "TokenProperties":{
        "shape":"MaxSize3StringList",
        "documentation":"<p>Data specified by the caller to be included in the JWT token. The data is mapped to the
amr claim of the JWT token.</p>"
      },
```

```
    "ClientToken":{
      "shape":"ClientToken",
      "documentation":"<p>Idempotency token, valid for 10 minutes.</p>"
    }
  }
},
"CreateTokenResponse":{
  "type":"structure",
  "members":{
    "TokenId":{
      "shape":"String",
      "documentation":"<p>Token ID.</p>"
    },
    "TokenType":{
      "shape":"TokenType",
      "documentation":"<p>Token type.</p>"
    },
    "Token":{
      "shape":"TokenString",
      "documentation":"<p>Refresh token, encoded as a JWT token.</p>"
    }
  }
},
"DateTime":{"type":"timestamp"},
"DatetimeRange":{
  "type":"structure",
  "required":["Begin"],
  "members":{
    "Begin":{

    "shape":"ISO8601DateTime",
      "documentation":"<p>Start of the time range.</p>"
    },
    "End":{
      "shape":"ISO8601DateTime",
      "documentation":"<p>End of the time range.</p>"
    }
  },
  "documentation":"<p>Describes a time range, in ISO8601-UTC format.</p>"
},
"DeleteGrantRequest":{
  "type":"structure",
  "required":[
    "GrantArn",
    "Version"
  ],
  "members":{
    "GrantArn":{
```

"shape":"Arn",
"documentation":" Amazon Resource Name (ARN) of the grant. "
},
"StatusReason":{
"shape":"StatusReasonMessage",
"documentation":" The Status reason for the delete request. "
},
"Version":{
"shape":"String",
"documentation":" Current version of the grant. "
}
}
},
"DeleteGrantResponse":{
"type":"structure",
"members":{
"GrantArn":{
"shape":"Arn",
"documentation":" Grant ARN. "
},
"Status":{
"shape":"GrantStatus",
"documentation":" Grant status. "
},
"Version":{
"shape":"String",
"documentation":" Grant version. "
}
}
},
"DeleteLicenseConfigurationRequest":{
"type":"structure",
"required":["LicenseConfigurationArn"],
"members":{
"LicenseConfigurationArn":{
"shape":"String",
"documentation":" ID of the license configuration. "
}
}
},
"DeleteLicenseConfigurationResponse":{
"type":"structure",
"members":{
}
},
"DeleteLicenseManagerReportGeneratorRequest":{
"type":"structure",
"required":["LicenseManagerReportGeneratorArn"],

```
  "members":{
    "LicenseManagerReportGeneratorArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the report generator to be deleted.</p>"
     }
  }
},
"DeleteLicenseManagerReportGeneratorResponse":{
  "type":"structure",
  "members":{
  }
},
"DeleteLicenseRequest":{
  "type":"structure",
  "required":[
    "LicenseArn",
    "SourceVersion"
  ],
  "members":{
    "LicenseArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
    },
    "SourceVersion":{
      "shape":"String",
      "documentation":"<p>Current version of the license.</p>"
    }
  }
},
"DeleteLicenseResponse":{
  "type":"structure",
  "members":{
    "Status":{
      "shape":"LicenseDeletionStatus",
      "documentation":"<p>License status.</p>"
    },
    "DeletionDate":{
      "shape":"ISO8601DateTime",
      "documentation":"<p>Date when the license is deleted.</p>"
    }
  }
},
"DeleteTokenRequest":{
  "type":"structure",
  "required":["TokenId"],
   "members":{
    "TokenId":{
      "shape":"String",
```

"documentation":" Token ID. "
}
}
},
"DeleteTokenResponse":{
"type":"structure",
"members":{
}
},
"DigitalSignatureMethod":{
"type":"string",
"enum":["JWT_PS384"]
},
"Entitlement":{
"type":"structure",
"required":[
"Name",
"Unit"
],
"members":{
"Name":{
"shape":"String",
"documentation":" Entitlement name. "
},
"Value":{
"shape":"String",
"documentation":" Entitlement resource. Use only if the unit is None. "
},
"MaxCount":{
"shape":"Long",
"documentation":" Maximum entitlement count. Use if the unit is not None. "
},
"Overage":{
"shape":"BoxBoolean",
"documentation":" Indicates whether overages are allowed. "
},
"Unit":{
"shape":"EntitlementUnit",
"documentation":" Entitlement unit. "
},
"AllowCheckIn":{
"shape":"BoxBoolean",
"documentation":" Indicates whether check-ins are allowed. "
}
},
"documentation":" Describes a resource entitled for use with a license. "
},
"EntitlementData":{

```
  "type":"structure",
  "required":[
    "Name",
    "Unit"
  ],
  "members":{
    "Name":{
      "shape":"String",
      "documentation":"<p>Entitlement data name.</p>"
    },
    "Value":{
      "shape":"String",
      "documentation":"<p>Entitlement data value.</p>"
    },
    "Unit":{
      "shape":"EntitlementDataUnit",
      "documentation":"<p>Entitlement data unit.</p>"
    }
  },
  "documentation":"<p>Data associated with an entitlement resource.</p>"
},
"EntitlementDataList":{
  "type":"list",
  "member":{"shape":"EntitlementData"}
},
"EntitlementDataUnit":{
  "type":"string",
  "enum":[
    "Count",
    "None",
    "Seconds",
    "Microseconds",
    "Milliseconds",
    "Bytes",
    "Kilobytes",
    "Megabytes",
    "Gigabytes",
    "Terabytes",
    "Bits",
    "Kilobits",
    "Megabits",
    "Gigabits",
    "Terabits",
    "Percent",
    "Bytes/Second",
    "Kilobytes/Second",
    "Megabytes/Second",
    "Gigabytes/Second",
```

"Terabytes/Second",
"Bits/Second",
"Kilobits/Second",
"Megabits/Second",
"Gigabits/Second",
"Terabits/Second",
"Count/Second"
]
},
"EntitlementList":{
"type":"list",
"member":{"shape":"Entitlement"}
},
"EntitlementNotAllowedException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"documentation":" The entitlement is not allowed. ",
"exception":true
},
"EntitlementUnit":{
"type":"string",
"enum":[
"Count",
"None",
"Seconds",
"Microseconds",
"Milliseconds",
"Bytes",
"Kilobytes",
"Megabytes",
"Gigabytes",
"Terabytes",
"Bits",
"Kilobits",
"Megabits",
"Gigabits",
"Terabits",
"Percent",
"Bytes/Second",
"Kilobytes/Second",
"Megabytes/Second",
"Gigabytes/Second",
"Terabytes/Second",
"Bits/Second",
"Kilobits/Second",
"Megabits/Second",

"Gigabits/Second",
"Terabits/Second",
"Count/Second"
]
},
"EntitlementUsage":{
"type":"structure",
"required":[
"Name",
"ConsumedValue",
"Unit"
],
"members":{
"Name":{
"shape":"String",
"documentation":" Entitlement usage name. "
},
"ConsumedValue":{
"shape":"String",
"documentation":" Resource usage consumed. "
},
"MaxCount":{
"shape":"String",
"documentation":" Maximum entitlement usage count. "
},
"Unit":{
"shape":"EntitlementDataUnit",
"documentation":" Entitlement usage unit. "
}
},
"documentation":" Usage associated with an entitlement resource. "
},
"EntitlementUsageList":{
"type":"list",
"member":{"shape":"EntitlementUsage"}
},
"ExtendLicenseConsumptionRequest":{
"type":"structure",
"required":["LicenseConsumptionToken"],
"members":{
"LicenseConsumptionToken":{
"shape":"String",
"documentation":" License consumption token. "
},
"DryRun":{
"shape":"Boolean",
"documentation":" Checks whether you have the required permissions for the action, without actually making the request. Provides

an error response if you do not have the required permissions. "
      }
    }
  },
  "ExtendLicenseConsumptionResponse":{
    "type":"structure",
    "members":{
      "LicenseConsumptionToken":{
        "shape":"String",
        "documentation":" License consumption token. "
      },
      "Expiration":{
        "shape":"ISO8601DateTime",
        "documentation":" Date and time at which the license consumption expires. "
      }
    }
  },
  "FailedDependencyException":{
    "type":"structure",
    "members":{
      "Message":{"shape":"Message"},
      "ErrorCode":{"shape":"String"}
    },
    "documentation":" A dependency required to run the API is missing. ",
    "exception":true
  },
  "Filter":{
    "type":"structure",
    "members":{
      "Name":{
        "shape":"FilterName",
        "documentation":" Name of the filter. Filter names are case-sensitive. "
      },
      "Values":{

        "shape":"FilterValues",
        "documentation":" The value of the filter, which is case-sensitive. You can only specify one value for the filter. "
      }
    },
    "documentation":" A filter name and value pair that is used to return more specific results from a describe operation. Filters can be used to match a set of resources by specific criteria, such as tags, attributes, or IDs. "
  },
  "FilterLimitExceededException":{
    "type":"structure",
    "members":{
      "Message":{"shape":"Message"}
    },

"documentation":" The request uses too many filters or too many filter values. ",
"exception":true
},
"FilterList":{
"type":"list",
"member":{"shape":"Filter"}
},
"FilterName":{"type":"string"},
"FilterValue":{"type":"string"},
"FilterValues":{
"type":"list",
"member":{"shape":"FilterValue"}
},
"Filters":{
"type":"list",
"member":{"shape":"Filter"}
},

"GetAccessTokenRequest":{
"type":"structure",
"required":["Token"],
"members":{
"Token":{
"shape":"TokenString",
"documentation":" Refresh token, encoded as a JWT token. "
},
"TokenProperties":{
"shape":"MaxSize3StringList",
"documentation":" Token properties to validate against those present in the JWT token. "
}
}
},
"GetAccessTokenResponse":{
"type":"structure",
"members":{
"AccessToken":{
"shape":"TokenString",
"documentation":" Temporary access token. "
}
}
},
"GetGrantRequest":{
"type":"structure",
"required":["GrantArn"],
"members":{
"GrantArn":{
"shape":"Arn",
"documentation":" Amazon Resource Name (ARN) of the grant. "

```
    },
    "Version":{
      "shape":"String",
      "documentation":"<p>Grant version.</p>"
    }
  }
},
 "GetGrantResponse":{
  "type":"structure",
  "members":{
    "Grant":{
      "shape":"Grant",
      "documentation":"<p>Grant details.</p>"
    }
  }
},
"GetLicenseConfigurationRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    }
  }
},
"GetLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
    "LicenseConfigurationId":{
      "shape":"String",
      "documentation":"<p>Unique ID for the license configuration.</p>"
    },
    "LicenseConfigurationArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    },
    "Name":{
      "shape":"String",
      "documentation":"<p>Name of the license configuration.</p>"
     },
    "Description":{
      "shape":"String",
      "documentation":"<p>Description of the license configuration.</p>"
    },
    "LicenseCountingType":{
      "shape":"LicenseCountingType",
      "documentation":"<p>Dimension for which the licenses are counted.</p>"
```

},
"LicenseRules":{
  "shape":"StringList",
  "documentation":" License rules. "
},
"LicenseCount":{
  "shape":"BoxLong",
  "documentation":" Number of available licenses. "
},
"LicenseCountHardLimit":{
  "shape":"BoxBoolean",
  "documentation":" Sets the number of available licenses as a hard limit. "
},
"ConsumedLicenses":{
  "shape":"BoxLong",
  "documentation":" Number of licenses assigned to resources. "
},
"Status":{
  "shape":"String",
  "documentation":" License configuration status. "
 },
"OwnerAccountId":{
  "shape":"String",
  "documentation":" Account ID of the owner of the license configuration. "
},
"ConsumedLicenseSummaryList":{
  "shape":"ConsumedLicenseSummaryList",
  "documentation":" Summaries of the licenses consumed by resources. "
},
"ManagedResourceSummaryList":{
  "shape":"ManagedResourceSummaryList",
  "documentation":" Summaries of the managed resources. "
},
"Tags":{
  "shape":"TagList",
  "documentation":" Tags for the license configuration. "
},
"ProductInformationList":{
  "shape":"ProductInformationList",
  "documentation":" Product information. "
},
"AutomatedDiscoveryInformation":{
  "shape":"AutomatedDiscoveryInformation",
  "documentation":" Automated discovery information. "
},
"DisassociateWhenNotFound":{
   "shape":"BoxBoolean",
  "documentation":" When true, disassociates a resource when software is uninstalled. "

```
      }
    }
  },
  "GetLicenseConversionTaskRequest":{
    "type":"structure",
    "required":["LicenseConversionTaskId"],
    "members":{
      "LicenseConversionTaskId":{
        "shape":"LicenseConversionTaskId",
        "documentation":"<p>ID of the license type conversion task to retrieve information on.</p>"
      }
    }
  },
  "GetLicenseConversionTaskResponse":{
    "type":"structure",
    "members":{
      "LicenseConversionTaskId":{
        "shape":"LicenseConversionTaskId",
        "documentation":"<p>ID of the license type conversion task.</p>"
      },
      "ResourceArn":{
        "shape":"String",
        "documentation":"<p>Amazon Resource Names (ARN) of the resources the license conversion task is
associated with.</p>"
      },
      "SourceLicenseContext":{
        "shape":"LicenseConversionContext",
         "documentation":"<p>Information about the license type converted from.</p>"
      },
      "DestinationLicenseContext":{
        "shape":"LicenseConversionContext",
        "documentation":"<p>Information about the license type converted to.</p>"
      },
      "StatusMessage":{
        "shape":"String",
        "documentation":"<p>The status message for the conversion task.</p>"
      },
      "Status":{
        "shape":"LicenseConversionTaskStatus",
        "documentation":"<p>Status of the license type conversion task.</p>"
      },
      "StartTime":{
        "shape":"DateTime",
        "documentation":"<p>Time at which the license type conversion task was started .</p>"
      },
      "LicenseConversionTime":{
        "shape":"DateTime",
        "documentation":"<p>Amount of time to complete the license type conversion.</p>"
```

```
      },
      "EndTime":{
        "shape":"DateTime",
        "documentation":"<p>Time
at which the license type conversion task was completed.</p>"
      }
    }
  },
  "GetLicenseManagerReportGeneratorRequest":{
    "type":"structure",
    "required":["LicenseManagerReportGeneratorArn"],
    "members":{
      "LicenseManagerReportGeneratorArn":{
        "shape":"String",
        "documentation":"<p>Amazon Resource Name (ARN) of the report generator.</p>"
      }
    }
  },
  "GetLicenseManagerReportGeneratorResponse":{
    "type":"structure",
    "members":{
      "ReportGenerator":{
        "shape":"ReportGenerator",
        "documentation":"<p>A report generator that creates periodic reports about your license configurations.</p>"
      }
    }
  },
  "GetLicenseRequest":{
    "type":"structure",
    "required":["LicenseArn"],
    "members":{
      "LicenseArn":{
        "shape":"Arn",
        "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
      },
      "Version":{

   "shape":"String",
        "documentation":"<p>License version.</p>"
      }
    }
  },
  "GetLicenseResponse":{
    "type":"structure",
    "members":{
      "License":{
        "shape":"License",
        "documentation":"<p>License details.</p>"
```

```
      }
    }
  },
  "GetLicenseUsageRequest":{
    "type":"structure",
    "required":["LicenseArn"],
    "members":{
      "LicenseArn":{
        "shape":"Arn",
        "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
      }
    }
  },
  "GetLicenseUsageResponse":{
    "type":"structure",
    "members":{
      "LicenseUsage":{
        "shape":"LicenseUsage",
        "documentation":"<p>License usage details.</p>"
      }
    }
  },
  "GetServiceSettingsRequest":{
    "type":"structure",
    "members":{
    }
  },
  "GetServiceSettingsResponse":{
    "type":"structure",
    "members":{
      "S3BucketArn":{
        "shape":"String",

      "documentation":"<p>Regional S3 bucket path for storing reports, license trail event data, discovery data, and so on.</p>"
      },
      "SnsTopicArn":{
        "shape":"String",
        "documentation":"<p>SNS topic configured to receive notifications from License Manager.</p>"
      },
      "OrganizationConfiguration":{
        "shape":"OrganizationConfiguration",
        "documentation":"<p>Indicates whether Organizations is integrated with License Manager for cross-account discovery.</p>"
      },
      "EnableCrossAccountsDiscovery":{
        "shape":"BoxBoolean",
        "documentation":"<p>Indicates whether cross-account discovery is enabled.</p>"
```

```
      },
      "LicenseManagerResourceShareArn":{
        "shape":"String",
        "documentation":"<p>Amazon Resource Name (ARN) of the resource share. The License Manager management account provides member accounts with access to this share.</p>"
      }
    }
  },
  "Grant":{
    "type":"structure",
    "required":[
      "GrantArn",
      "GrantName",
      "ParentArn",
      "LicenseArn",
      "GranteePrincipalArn",
      "HomeRegion",
      "GrantStatus",
      "Version",
      "GrantedOperations"
    ],
    "members":{
      "GrantArn":{
        "shape":"Arn",
        "documentation":"<p>Amazon Resource Name (ARN) of the grant.</p>"
      },
      "GrantName":{
        "shape":"String",
        "documentation":"<p>Grant name.</p>"
      },
      "ParentArn":{
        "shape":"Arn",
        "documentation":"<p>Parent ARN.</p>"
      },
      "LicenseArn":{
        "shape":"Arn",
        "documentation":"<p>License ARN.</p>"
      },
      "GranteePrincipalArn":{
        "shape":"Arn",
        "documentation":"<p>The grantee principal ARN.</p>"
      },
      "HomeRegion":{
        "shape":"String",
        "documentation":"<p>Home Region of the grant.</p>"
      },
      "GrantStatus":{
```

"shape":"GrantStatus",
"documentation":" Grant status. "
},
"StatusReason":{
"shape":"StatusReasonMessage",
"documentation":" Grant status reason. "
},
"Version":{
"shape":"String",
"documentation":" Grant version. "
},
"GrantedOperations":{
"shape":"AllowedOperationList",
"documentation":" Granted operations. "
},
"Options":{
"shape":"Options",
"documentation":" The options specified for the grant. "
}
},
"documentation":" Describes a grant. "
},
"GrantList":{
"type":"list",
"member":{"shape":"Grant"}
},
"GrantStatus":{
"type":"string",
"enum":[
"PENDING_WORKFLOW",
"PENDING_ACCEPT",
"REJECTED",
"ACTIVE",
"FAILED_WORKFLOW",
"DELETED",
"PENDING_DELETE",
"DISABLED",

"WORKFLOW_COMPLETED"
]
},
"GrantedLicense":{
"type":"structure",
"members":{
"LicenseArn":{
"shape":"Arn",
"documentation":" Amazon Resource Name (ARN) of the license. "
},

"LicenseName":{
"shape":"String",
"documentation":" License name. "
},
"ProductName":{
"shape":"String",
"documentation":" Product name. "
},
"ProductSKU":{
"shape":"String",
"documentation":" Product SKU. "
},
"Issuer":{
"shape":"IssuerDetails",
"documentation":" Granted license issuer. "
},
"HomeRegion":{
"shape":"String",
"documentation":" Home Region of the granted license. "
},
"Status":{
"shape":"LicenseStatus",
"documentation":" Granted license status. "
},
"Validity":{
"shape":"DatetimeRange",
"documentation":" Date and time range during which the granted license is valid, in ISO8601-UTC format. "
},
"Beneficiary":{
"shape":"String",
"documentation":" Granted license beneficiary. "
},
"Entitlements":{
"shape":"EntitlementList",
"documentation":" License entitlements. "
},
"ConsumptionConfiguration":{
"shape":"ConsumptionConfiguration",
"documentation":" Configuration for consumption of the license. "
},
"LicenseMetadata":{
"shape":"MetadataList",
"documentation":" Granted license metadata. "
},
"CreateTime":{
"shape":"ISO8601DateTime",
"documentation":" Creation time of the granted license. "

```
      },
      "Version":{
        "shape":"String",
        "documentation":"<p>Version of the granted license.</p>"
      },
      "ReceivedMetadata":{
         "shape":"ReceivedMetadata",
        "documentation":"<p>Granted license received metadata.</p>"
      }
    },
    "documentation":"<p>Describes a license that is granted to a grantee.</p>"
  },
  "GrantedLicenseList":{
    "type":"list",
    "member":{"shape":"GrantedLicense"}
  },
  "ISO8601DateTime":{
    "type":"string",
    "max":50,
    "pattern":"^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-1][0-9]):([0-5][0-
9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[ 0-3]|[0-1][0-9]):[0-5][0-9])+$"
  },
  "Integer":{"type":"integer"},
  "InvalidParameterValueException":{
    "type":"structure",
    "members":{
      "Message":{"shape":"Message"}
    },
    "documentation":"<p>One or more parameter values are not valid.</p>",
    "exception":true,
    "synthetic":true
  },
  "InvalidResourceStateException":{
    "type":"structure",
    "members":{
      "Message":{"shape":"Message"}

  },
    "documentation":"<p>License Manager cannot allocate a license to a resource because of its state. </p> <p>For
example, you cannot allocate a license to an instance in the process of shutting down.</p>",
    "exception":true
  },
  "InventoryFilter":{
    "type":"structure",
    "required":[
      "Name",
      "Condition"
    ],
```

"members":{
"Name":{
"shape":"String",
"documentation":" Name of the filter. "
},
"Condition":{
"shape":"InventoryFilterCondition",
"documentation":" Condition of the filter. "
},
"Value":{
"shape":"String",
"documentation":" Value of the filter. "
}
},
"documentation":" An inventory filter. "
},
"InventoryFilterCondition":{
"type":"string",
"enum":[
"EQUALS",
"NOT_EQUALS",
"BEGINS_WITH",
"CONTAINS"
]
},
"InventoryFilterList":{
"type":"list",
"member":{"shape":"InventoryFilter"}
},
"Issuer":{
"type":"structure",
"required":["Name"],
"members":{
"Name":{
"shape":"String",
"documentation":" Issuer name. "
},
"SignKey":{
"shape":"String",
"documentation":" Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, and support the RSASSA-PSS SHA-256 signing algorithm. "
}
},
"documentation":" Details about the issuer of a license. "
},
"IssuerDetails":{
"type":"structure",
"members":{

"Name":{
"shape":"String",
"documentation":" Issuer name. "
},
"SignKey":{
"shape":"String",
"documentation":" Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, and support the RSASSA-PSS SHA-256 signing algorithm. "
},
"KeyFingerprint":{
"shape":"String",
"documentation":" Issuer key fingerprint. "
}
},
"documentation":" Details associated with the issuer of a license. "
},
"License":{
"type":"structure",
"members":{
"LicenseArn":{
"shape":"Arn",
"documentation":" Amazon Resource Name (ARN) of the license. "
},
"LicenseName":{
"shape":"String",
"documentation":" License name. "
},
"ProductName":{
"shape":"String",
"documentation":" Product name. "
},
"ProductSKU":{
"shape":"String",
"documentation":" Product SKU. "
},
"Issuer":{
"shape":"IssuerDetails",
"documentation":" License issuer. "
},
"HomeRegion":{
"shape":"String",
"documentation":" Home Region of the license. "
},
"Status":{
"shape":"LicenseStatus",
"documentation":" License status. "
},
"Validity":{

"shape":"DatetimeRange",
"documentation":" Date and time range during which the license is valid, in ISO8601-UTC format. "
},
"Beneficiary":{
"shape":"String",
"documentation":" License beneficiary. "
},
"Entitlements":{
"shape":"EntitlementList",
"documentation":" License entitlements. "
},
"ConsumptionConfiguration":{
"shape":"ConsumptionConfiguration",
"documentation":" Configuration for consumption of the license. "
},
"LicenseMetadata":{
"shape":"MetadataList",
"documentation":" License metadata. "
},
"CreateTime":{
"shape":"ISO8601DateTime",
"documentation":" License creation time. "
},
"Version":{
"shape":"String",
"documentation":" License version. "
}
},
"documentation":" Software license that is managed in License Manager. "
},
"LicenseConfiguration":{
"type":"structure",
"members":{
"LicenseConfigurationId":{
"shape":"String",
"documentation":" Unique ID of the license configuration. "
},
"LicenseConfigurationArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the license configuration. "
},
"Name":{
"shape":"String",
"documentation":" Name of the license configuration. "
},
"Description":{
"shape":"String",
"documentation":" Description of the license configuration. "

},
"LicenseCountingType":{
"shape":"LicenseCountingType",
"documentation":" Dimension to use to track the license inventory. "
},
"LicenseRules":{
"shape":"StringList",
"documentation":" License rules. "
},
"LicenseCount":{
"shape":"BoxLong",
"documentation":" Number of licenses managed by the license configuration. "
},
"LicenseCountHardLimit":{
"shape":"BoxBoolean",
"documentation":" Number of available licenses as a hard limit. "
},
"DisassociateWhenNotFound":{
"shape":"BoxBoolean",
"documentation":" When true, disassociates a resource when software is uninstalled. "
},
"ConsumedLicenses":{
"shape":"BoxLong",
"documentation":" Number of licenses consumed. "
},
"Status":{
"shape":"String",
"documentation":" Status of the license configuration. "
},
"OwnerAccountId":{
"shape":"String",
"documentation":" Account ID of the license
configuration's owner. "
},
"ConsumedLicenseSummaryList":{
"shape":"ConsumedLicenseSummaryList",
"documentation":" Summaries for licenses consumed by various resources. "
},
"ManagedResourceSummaryList":{
"shape":"ManagedResourceSummaryList",
"documentation":" Summaries for managed resources. "
},
"ProductInformationList":{
"shape":"ProductInformationList",
"documentation":" Product information. "
},
"AutomatedDiscoveryInformation":{
"shape":"AutomatedDiscoveryInformation",

"documentation":" Automated discovery information. "
}
},
"documentation":" A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared
tenancy, Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM must be associated with a host), and the number of licenses purchased and used. "
},
"LicenseConfigurationAssociation":{
"type":"structure",
"members":{
"ResourceArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the resource. "
},
"ResourceType":{
"shape":"ResourceType",
"documentation":" Type of server resource. "
},
"ResourceOwnerId":{
"shape":"String",
"documentation":" ID of the Amazon Web Services account that owns the resource consuming licenses. "
},
"AssociationTime":{
"shape":"DateTime",
"documentation":" Time when the license configuration was associated with the resource. "
},
"AmiAssociationScope":{
"shape":"String",
"documentation":" Scope of
AMI associations. The possible value is <code>cross-account</code>. "
}
},
"documentation":" Describes an association with a license configuration. "
},
"LicenseConfigurationAssociations":{
"type":"list",
"member":{"shape":"LicenseConfigurationAssociation"}
},
"LicenseConfigurationStatus":{
"type":"string",
"enum":[
"AVAILABLE",
"DISABLED"
]
},

"LicenseConfigurationUsage":{
"type":"structure",
"members":{
"ResourceArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the resource. "
},
"ResourceType":{
"shape":"ResourceType",
"documentation":" Type of resource. "
},
"ResourceStatus":{
"shape":"String",
"documentation":" Status of the resource. "
},
"ResourceOwnerId":{
"shape":"String",
"documentation":" ID of
the account that owns the resource. "
},
"AssociationTime":{
"shape":"DateTime",
"documentation":" Time when the license configuration was initially associated with the resource. "
},
"ConsumedLicenses":{
"shape":"BoxLong",
"documentation":" Number of licenses consumed by the resource. "
}
},
"documentation":" Details about the usage of a resource associated with a license configuration. "
},
"LicenseConfigurationUsageList":{
"type":"list",
"member":{"shape":"LicenseConfigurationUsage"}
},
"LicenseConfigurations":{
"type":"list",
"member":{"shape":"LicenseConfiguration"}
},
"LicenseConversionContext":{
"type":"structure",
"members":{
"UsageOperation":{
"shape":"UsageOperation",
"documentation":" The Usage operation value that corresponds to the license type you are converting your
resource
from. For more information about which platforms correspond to which usage operation values see <a
href=\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-info-fields.html#billing-info\">Sample

data: usage operation by platform "
      }
    },
    "documentation":" Information about a license type conversion task. "
  },
  "LicenseConversionTask":{
    "type":"structure",
    "members":{
      "LicenseConversionTaskId":{
        "shape":"LicenseConversionTaskId",
        "documentation":" The ID of the license type conversion task. "
      },
      "ResourceArn":{
        "shape":"String",
        "documentation":" The Amazon Resource Name (ARN) of the resource associated with the license type conversion task. "
      },
      "SourceLicenseContext":{
        "shape":"LicenseConversionContext",
        "documentation":" Information about the license type this conversion task converted from. "
      },

      "DestinationLicenseContext":{
        "shape":"LicenseConversionContext",
        "documentation":" Information about the license type this conversion task converted to. "
      },
      "Status":{
        "shape":"LicenseConversionTaskStatus",
        "documentation":" The status of the conversion task. "
      },
      "StatusMessage":{
        "shape":"String",
        "documentation":" The status message for the conversion task. "
      },
      "StartTime":{
        "shape":"DateTime",
        "documentation":" The time the conversion task was started at. "
      },
      "LicenseConversionTime":{
        "shape":"DateTime",
        "documentation":" The time the usage operation value of the resource was changed. "
      },
      "EndTime":{
        "shape":"DateTime",
        "documentation":" The time the conversion task was completed. "
      }
    },
    "documentation":" Information about a

license type conversion task. "
},
"LicenseConversionTaskId":{
"type":"string",
"max":50,
"pattern":"^lct-[a-zA-Z0-9]*"
},
"LicenseConversionTaskStatus":{
"type":"string",
"enum":[
"IN_PROGRESS",
"SUCCEEDED",
"FAILED"
]
},
"LicenseConversionTasks":{
"type":"list",
"member":{"shape":"LicenseConversionTask"}
},
"LicenseCountingType":{
"type":"string",
"enum":[
"vCPU",
"Instance",
"Core",
"Socket"
]
},
"LicenseDeletionStatus":{
"type":"string",
"enum":[
"PENDING_DELETE",
"DELETED"
]
},
"LicenseList":{
"type":"list",
"member":{"shape":"License"}
},
"LicenseOperationFailure":{
"type":"structure",
"members":{
"ResourceArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the resource. "
},

"ResourceType":{
"shape":"ResourceType",
"documentation":" Resource type. "
},
"ErrorMessage":{
"shape":"String",
"documentation":" Error message. "
},
"FailureTime":{
"shape":"DateTime",
"documentation":" Failure time. "
},
"OperationName":{
"shape":"String",
"documentation":" Name of the operation. "
},
"ResourceOwnerId":{
"shape":"String",
"documentation":" ID of the Amazon Web Services account that owns the resource. "
},
"OperationRequestedBy":{
"shape":"String",
"documentation":" The requester is \"License Manager Automated Discovery\". "
},
"MetadataList":{
"shape":"MetadataList",
"documentation":" Reserved. "
}
},
"documentation":" Describes the failure of a license operation. "
},
"LicenseOperationFailureList":{
"type":"list",
"member":{"shape":"LicenseOperationFailure"}
},
"LicenseSpecification":{
"type":"structure",
"required":["LicenseConfigurationArn"],
"members":{
"LicenseConfigurationArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the license configuration. "
},
"AmiAssociationScope":{
"shape":"String",
"documentation":" Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
},

"documentation":" Details for associating a license configuration with a resource. "
},
"LicenseSpecifications":{
"type":"list",
"member":{"shape":"LicenseSpecification"}
},
"LicenseStatus":{
"type":"string",
"enum":[
"AVAILABLE",
"PENDING_AVAILABLE",
"DEACTIVATED",
"SUSPENDED",
"EXPIRED",
"PENDING_DELETE",
"DELETED"
]
},
"LicenseUsage":{
"type":"structure",
"members":{
"EntitlementUsages":{
"shape":"EntitlementUsageList",
"documentation":" License entitlement usages. "
}
},
"documentation":" Describes the entitlement usage associated with a license. "
},
"LicenseUsageException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"documentation":" You do not have enough licenses available to support a new resource launch. ",
"exception":true
},
"ListAssociationsForLicenseConfigurationRequest":{
"type":"structure",
"required":["LicenseConfigurationArn"],
"members":{
"LicenseConfigurationArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of a license configuration. "
},
"MaxResults":{
"shape":"BoxInteger",
"documentation":" Maximum

number of results to return in a single call. "
      },
      "NextToken":{
        "shape":"String",
        "documentation":" Token for the next set of results. "
      }
    }
  },
  "ListAssociationsForLicenseConfigurationResponse":{
    "type":"structure",
    "members":{
      "LicenseConfigurationAssociations":{
        "shape":"LicenseConfigurationAssociations",
        "documentation":" Information about the associations for the license configuration. "
      },
      "NextToken":{
        "shape":"String",
        "documentation":" Token for the next set of results. "
      }
    }
  },
  "ListDistributedGrantsRequest":{
    "type":"structure",
    "members":{
      "GrantArns":{
        "shape":"ArnList",
        "documentation":" Amazon Resource Names (ARNs) of the grants. "
      },
      "Filters":{
        "shape":"FilterList",
        "documentation":" Filters to scope the results.
The following filters are supported: <ul> <code>LicenseArn</code>   <code>GrantStatus</code>   <code>GranteePrincipalARN</code>   <code>ProductSKU</code>   <code>LicenseIssuerName</code> "
      },
      "NextToken":{
        "shape":"String",
        "documentation":" Token for the next set of results. "
      },
      "MaxResults":{
        "shape":"MaxSize100",
        "documentation":" Maximum number of results to return in a single call. "
      }
    }
  },
  "ListDistributedGrantsResponse":{
    "type":"structure",
    "members":{

"Grants":{
"shape":"GrantList",
"documentation":" Distributed grant details. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
}
}
},
"ListFailuresForLicenseConfigurationOperationsRequest":{
"type":"structure",
"required":["LicenseConfigurationArn"],
"members":{
"LicenseConfigurationArn":{
"shape":"String",
"documentation":" Amazon Resource Name of the license configuration. "
},
"MaxResults":{
"shape":"BoxInteger",
"documentation":" Maximum number of results to return in a single call. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
}
}
},
"ListFailuresForLicenseConfigurationOperationsResponse":{
"type":"structure",
"members":{
"LicenseOperationFailureList":{
"shape":"LicenseOperationFailureList",
"documentation":" License configuration operations that failed. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
}
}

},
"ListLicenseConfigurationsRequest":{
"type":"structure",
"members":{
"LicenseConfigurationArns":{
"shape":"StringList",
"documentation":" Amazon Resource Names (ARN) of the license configurations. "

```
      },
      "MaxResults":{
        "shape":"BoxInteger",
        "documentation":"<p>Maximum number of results to return in a single call.</p>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>Token for the next set of results.</p>"
      },
      "Filters":{
        "shape":"Filters",
        "documentation":"<p>Filters to scope the results. The following filters and logical operators are
supported:</p> <ul> <li> <p> <code>licenseCountingType</code> - The dimension for which licenses are counted.
Possible values are <code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.
Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li>
 <p> <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license enforcement is
used. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p>
<code>usagelimitExceeded</code> - A Boolean value that indicates whether the available licenses have been
exceeded. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> </ul>"
      }
    }
  },
  "ListLicenseConfigurationsResponse":{
    "type":"structure",
    "members":{
      "LicenseConfigurations":{
        "shape":"LicenseConfigurations",
        "documentation":"<p>Information about the license configurations.</p>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>Token for the next set of results.</p>"
      }
    }
  },
  "ListLicenseConversionTasksRequest":{
    "type":"structure",
    "members":{
      "NextToken":{
        "shape":"String",
        "documentation":"<p>Token
 for the next set of results.</p>"
      },
      "MaxResults":{
        "shape":"BoxInteger",
        "documentation":"<p>Maximum number of results to return in a single call.</p>"
      },
      "Filters":{
```

"shape":"Filters",
"documentation":" Filters to scope the results. Valid filters are <code>ResourceArns</code> and <code>Status</code>. "
}
}
},
"ListLicenseConversionTasksResponse":{
"type":"structure",
"members":{
"LicenseConversionTasks":{
"shape":"LicenseConversionTasks",
"documentation":" Information about the license configuration tasks for your account. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
}
}
},
"ListLicenseManagerReportGeneratorsRequest":{
"type":"structure",
"members":{
"Filters":{
"shape":"FilterList",
"documentation":" Filters to scope the results. The following filters are supported: <ul> <code>LicenseConfigurationArn</code> "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
},
"MaxResults":{
"shape":"MaxSize100",
"documentation":" Maximum number of results to return in a single call. "
}
}
},
"ListLicenseManagerReportGeneratorsResponse":{
"type":"structure",
"members":{
"ReportGenerators":{
"shape":"ReportGeneratorList",
"documentation":" A report generator that creates periodic reports about your license configurations. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "

```
      }
    }
  },
  "ListLicenseSpecificationsForResourceRequest":{
    "type":"structure",
    "required":["ResourceArn"],
     "members":{
      "ResourceArn":{
        "shape":"String",
        "documentation":"<p>Amazon Resource Name (ARN) of a resource that has an associated license
configuration.</p>"
      },
      "MaxResults":{
        "shape":"BoxInteger",
        "documentation":"<p>Maximum number of results to return in a single call.</p>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>Token for the next set of results.</p>"
      }
    }
  },
  "ListLicenseSpecificationsForResourceResponse":{
    "type":"structure",
    "members":{
      "LicenseSpecifications":{
        "shape":"LicenseSpecifications",
        "documentation":"<p>License configurations associated with a resource.</p>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>Token for the next set of results.</p>"
      }
    }
  },
  "ListLicenseVersionsRequest":{
    "type":"structure",

    "required":["LicenseArn"],
    "members":{
      "LicenseArn":{
        "shape":"Arn",
        "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>Token for the next set of results.</p>"
      },
```

"MaxResults":{
"shape":"MaxSize100",
"documentation":" Maximum number of results to return in a single call. "
}
}
},
"ListLicenseVersionsResponse":{
"type":"structure",
"members":{
"Licenses":{
"shape":"LicenseList",
"documentation":" License details. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
}
}
},
"ListLicensesRequest":{
"type":"structure",
"members":{
"LicenseArns":{
"shape":"ArnList",
"documentation":" Amazon Resource Names
(ARNs) of the licenses. "
},
"Filters":{
"shape":"FilterList",
"documentation":" Filters to scope the results. The following filters are supported: <ul>
<code>Beneficiary</code>   <code>ProductSKU</code>
<code>Fingerprint</code>   <code>Status</code> "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
},
"MaxResults":{
"shape":"MaxSize100",
"documentation":" Maximum number of results to return in a single call. "
}
}
},
"ListLicensesResponse":{
"type":"structure",
"members":{
"Licenses":{
"shape":"LicenseList",

"documentation":" License details. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
}
}
},
"ListReceivedGrantsForOrganizationRequest":{
"type":"structure",
"required":["LicenseArn"],
"members":{
"LicenseArn":{
"shape":"Arn",
"documentation":" The Amazon Resource Name (ARN) of the received license. "
},
"Filters":{
"shape":"FilterList",
"documentation":" Filters to scope the results. The following filters are supported: <ul> <code>ParentArn</code>   <code>GranteePrincipalArn</code> "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
},
"MaxResults":{
"shape":"MaxSize100",
"documentation":" Maximum number of results to return in a single call. "
}
}
},
"ListReceivedGrantsForOrganizationResponse":{
"type":"structure",
"members":{
"Grants":{

"shape":"GrantList",
"documentation":" Lists the grants the organization has received. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
}
}
},
"ListReceivedGrantsRequest":{
"type":"structure",
"members":{

"GrantArns":{
"shape":"ArnList",
"documentation":" Amazon Resource Names (ARNs) of the grants. "
},
"Filters":{
"shape":"FilterList",
"documentation":" Filters to scope the results. The following filters are supported: <ul> <code>ProductSKU</code>   <code>LicenseIssuerName</code>   <code>LicenseArn</code>   <code>GrantStatus</code>   <code>GranterAccountId</code> "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
},
"MaxResults":{
"shape":"MaxSize100",
"documentation":" Maximum number of results to return in a single call. "
}
}
},
"ListReceivedGrantsResponse":{
"type":"structure",
"members":{
"Grants":{
"shape":"GrantList",
"documentation":" Received grant details. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
}
}
},
"ListReceivedLicensesForOrganizationRequest":{
"type":"structure",
"members":{
"Filters":{
"shape":"FilterList",
"documentation":" Filters to scope the results. The following filters are supported: <ul> <code>Beneficiary</code>   <code>ProductSKU</code> "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
},
"MaxResults":{

"shape":"MaxSize100",
"documentation":" Maximum number of results to return in a single call. "
}
}
},
"ListReceivedLicensesForOrganizationResponse":{
"type":"structure",
"members":{
"Licenses":{
"shape":"GrantedLicenseList",
"documentation":" Lists the licenses the organization has received. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
}
}
},
"ListReceivedLicensesRequest":{
"type":"structure",
"members":{
"LicenseArns":{
"shape":"ArnList",
"documentation":" Amazon Resource Names (ARNs) of the licenses. "
},
"Filters":{
"shape":"FilterList",
"documentation":" Filters to scope the results. The following filters are supported: <ul>
<code>ProductSKU</code>
   <code>Status</code>   <code>Fingerprint</code>
<code>IssuerName</code>   <code>Beneficiary</code> "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
},
"MaxResults":{
"shape":"MaxSize100",
"documentation":" Maximum number of results to return in a single call. "
}
}
},
"ListReceivedLicensesResponse":{
"type":"structure",
"members":{
"Licenses":{
"shape":"GrantedLicenseList",
"documentation":" Received license details. "

```
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>Token for the next set of results.</p>"
      }
    }
  },
  "ListResourceInventoryRequest":{
    "type":"structure",
    "members":{
      "MaxResults":{
        "shape":"BoxInteger",
         "documentation":"<p>Maximum number of results to return in a single call.</p>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>Token for the next set of results.</p>"
      },
      "Filters":{
        "shape":"InventoryFilterList",
        "documentation":"<p>Filters to scope the results. The following filters and logical operators are
supported:</p> <ul> <li> <p> <code>account_id</code> - The ID of the Amazon Web Services account that owns
the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p>
<code>application_name</code> - The name of the application. Logical operators are <code>EQUALS</code> |
<code>BEGINS_WITH</code>.</p> </li> <li> <p> <code>license_included</code> - The type of license
included. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. Possible values are
<code>sql-server-enterprise</code> | <code>sql-server-standard</code> | <code>sql-server-web</code>
 | <code>windows-server-datacenter</code>.</p> </li> <li> <p> <code>platform</code> - The platform of the
resource. Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p> </li> <li> <p>
<code>resource_id</code> - The ID of the resource. Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>tag:&lt;key&gt;</code> - The key/value combination of
a tag assigned to the resource. Logical operators are <code>EQUALS</code> (single account) or
<code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account).</p> </li> </ul>"
      }
    }
  },
  "ListResourceInventoryResponse":{
    "type":"structure",
    "members":{
      "ResourceInventoryList":{
        "shape":"ResourceInventoryList",
        "documentation":"<p>Information about the resources.</p>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>Token for the next set of results.</p>"
      }
    }
```

```
  },
  "ListTagsForResourceRequest":{
    "type":"structure",
    "required":["ResourceArn"],
    "members":{
      "ResourceArn":{
        "shape":"String",
        "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
      }
    }
  },
  "ListTagsForResourceResponse":{
    "type":"structure",
    "members":{
      "Tags":{
        "shape":"TagList",
        "documentation":"<p>Information about the tags.</p>"
      }
    }
  },
  "ListTokensRequest":{
    "type":"structure",
    "members":{
      "TokenIds":{
        "shape":"StringList",
        "documentation":"<p>Token IDs.</p>"
      },
      "Filters":{
        "shape":"FilterList",
        "documentation":"<p>Filters to scope the results. The following filter is supported:</p> <ul> <li> <p>
<code>LicenseArns</code> </p> </li> </ul>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>Token for the next set of
 results.</p>"
      },
      "MaxResults":{
        "shape":"MaxSize100",
        "documentation":"<p>Maximum number of results to return in a single call.</p>"
      }
    }
  },
  "ListTokensResponse":{
    "type":"structure",
    "members":{
      "Tokens":{
        "shape":"TokenList",
```

"documentation":" Received token details. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
}
}
},
"ListUsageForLicenseConfigurationRequest":{
"type":"structure",
"required":["LicenseConfigurationArn"],
"members":{
"LicenseConfigurationArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the license configuration. "
},
"MaxResults":{
"shape":"BoxInteger",
"documentation":" Maximum number of results to return in a single call. "
},

"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
},
"Filters":{
"shape":"Filters",
"documentation":" Filters to scope the results. The following filters and logical operators are supported: <ul> <code>resourceArn</code> - The ARN of the license configuration resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.   <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.   <code>resourceAccount</code> - The ID of the account that owns the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. "
}
}
},
"ListUsageForLicenseConfigurationResponse":{
"type":"structure",
"members":{
"LicenseConfigurationUsageList":{
"shape":"LicenseConfigurationUsageList",
"documentation":" Information about the license configurations. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "

```
    }
  }
},
"Location":{"type":"string"},
"Long":{"type":"long"},
"ManagedResourceSummary":{
  "type":"structure",
  "members":{
    "ResourceType":{
      "shape":"ResourceType",
      "documentation":"<p>Type of resource associated with a license.</p>"
    },
    "AssociationCount":{
      "shape":"BoxLong",
      "documentation":"<p>Number of resources associated with licenses.</p>"
    }
  },
  "documentation":"<p>Summary information about a managed resource.</p>"
},
"ManagedResourceSummaryList":{
  "type":"list",
  "member":{"shape":"ManagedResourceSummary"}
},
"MaxSize100":{
   "type":"integer",
  "max":100,
  "min":1
},
"MaxSize3StringList":{
  "type":"list",
  "member":{"shape":"String"},
  "max":3
},
"Message":{"type":"string"},
"Metadata":{
  "type":"structure",
  "members":{
    "Name":{
      "shape":"String",
      "documentation":"<p>The key name.</p>"
    },
    "Value":{
      "shape":"String",
      "documentation":"<p>The value.</p>"
    }
  },
  "documentation":"<p>Describes key/value pairs.</p>"
},
```

"MetadataList":{
"type":"list",
"member":{"shape":"Metadata"}
},
"NoEntitlementsAllowedException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"documentation":" There are no entitlements found for this license, or the entitlement maximum count is reached. ",
"exception":true
},
"Options":{
"type":"structure",
"members":{
"ActivationOverrideBehavior":{
"shape":"ActivationOverrideBehavior",
"documentation":" An activation option for your grant that determines the behavior of activating a grant. Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the <code>Status</code> parameter.   As a license administrator, you can optionally specify an <code>ActivationOverrideBehavior</code> when activating a grant.   As a grantor, you can optionally specify an <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee account in your organization.   As a grantee, if the grantor creating the distributed grant doesnt specify an <code>ActivationOverrideBehavior</code>, you can optionally specify one when you are activating the grant.   <dl> <dt>DISTRIBUTED_GRANTS_ONLY</dt> <dd> Use this value to activate a grant without replacing any member accounts active grants for the same product. </dd> <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt> <dd> Use this value to activate a grant and disable other active grants in any member accounts for the same product. This action will also replace their previously activated grants with this activated grant. </dd> </dl>"
}
},
"documentation":" The options you can specify when you create a new version of a grant, such as activation override behavior. For more information, see Granted licenses in License Manager in the License Manager User Guide. "
},
"OrganizationConfiguration":{
"type":"structure",
"required":["EnableIntegration"],
"members":{
"EnableIntegration":{
"shape":"Boolean",
"documentation":" Enables Organizations integration. "
}
},

"documentation":" Configuration information for Organizations. "
},
"PrincipalArnList":{
"type":"list",
"member":{"shape":"Arn"},
"max":1,
"min":1
},
"ProductInformation":{
"type":"structure",
"required":[
"ResourceType",
"ProductInformationFilterList"
],
"members":{
"ResourceType":{
"shape":"String",
"documentation":" Resource type. The possible values are <code>SSM_MANAGED</code> |
<code>RDS</code>. "
},
"ProductInformationFilterList":{
"shape":"ProductInformationFilterList",
"documentation":" A Product information filter consists of a
<code>ProductInformationFilterComparator</code> which is a logical operator, a
<code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a
<code>ProductInformationFilterValue</code> that specifies the value to filter on. Accepted values for
<code>ProductInformationFilterName</code>
are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>.
 The following filters and are supported when the resource type is <code>SSM_MANAGED</code>:
  <code>Application Name</code> - The name of the application. Logical operator is
<code>EQUALS</code>.   <code>Application Publisher</code> - The publisher of the
application. Logical operator is <code>EQUALS</code>.   <code>Application Version</code> -
The version of the application. Logical operator is <code>EQUALS</code>.   <code>Platform
Name</code> - The name of the platform. Logical operator is <code>EQUALS</code>.
<code>Platform Type</code> - The platform type. Logical operator is <code>EQUALS</code>.
 <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude
from automated discovery. Logical
operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code>
following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is
optional if you are not using values for the key.   <code>AccountId</code> - The 12-digit ID of
an Amazon Web Services account you wish to exclude from automated discovery. Logical operator is
<code>NOT_EQUALS</code>.   <code>License Included</code> - The type of license
included. Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>. Possible values are:
<code>sql-server-enterprise</code> | <code>sql-server-standard</code> | <code>sql-server-web</code> |
<code>windows-server-datacenter</code>.   The following filters and logical operators are
supported when the resource type is <code>RDS</code>: <ul> <code>Engine Edition</code> - The
edition of the database engine. Logical operator is <code>EQUALS</code>. Possible

values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>.   <code>License Pack</code> - The license pack. Logical operator is <code>EQUALS</code>. Possible values are: <code>data guard</code> | <code>diagnostic pack sqlt</code> | <code>tuning pack sqlt</code> | <code>ols</code> | <code>olap</code>. "
      }
    },
    "documentation":" Describes product information for a license configuration. "
  },
  "ProductInformationFilter":{
    "type":"structure",
    "required":[
      "ProductInformationFilterName",
      "ProductInformationFilterComparator"
    ],
    "members":{
      "ProductInformationFilterName":{
        "shape":"String",
        "documentation":" Filter name. "
      },
      "ProductInformationFilterValue":{
        "shape":"StringList",
        "documentation":" Filter value. "
      },
      "ProductInformationFilterComparator":{
         "shape":"String",
        "documentation":" Logical operator. "
      }
    },
    "documentation":" Describes product information filters. "
  },
  "ProductInformationFilterList":{
    "type":"list",
    "member":{"shape":"ProductInformationFilter"}
  },
  "ProductInformationList":{
    "type":"list",
    "member":{"shape":"ProductInformation"}
  },
  "ProvisionalConfiguration":{
    "type":"structure",
    "required":["MaxTimeToLiveInMinutes"],
    "members":{
      "MaxTimeToLiveInMinutes":{
        "shape":"BoxInteger",
        "documentation":" Maximum time for the provisional configuration, in minutes. "
      }
    },
    "documentation":" Details about a provisional configuration. "

```
  },
  "RateLimitExceededException":{
    "type":"structure",
    "members":{
      "Message":{"shape":"Message"}
    },
    "documentation":"<p>Too many requests have been submitted. Try again after
a brief wait.</p>",
    "exception":true
  },
  "ReceivedMetadata":{
    "type":"structure",
    "members":{
      "ReceivedStatus":{
        "shape":"ReceivedStatus",
        "documentation":"<p>Received status.</p>"
      },
      "ReceivedStatusReason":{
        "shape":"StatusReasonMessage",
        "documentation":"<p>Received status reason.</p>"
      },
      "AllowedOperations":{
        "shape":"AllowedOperationList",
        "documentation":"<p>Allowed operations.</p>"
      }
    },
    "documentation":"<p>Metadata associated with received licenses and grants.</p>"
  },
  "ReceivedStatus":{
    "type":"string",
    "enum":[
      "PENDING_WORKFLOW",
      "PENDING_ACCEPT",
      "REJECTED",
      "ACTIVE",
      "FAILED_WORKFLOW",
      "DELETED",
      "DISABLED",
      "WORKFLOW_COMPLETED"
    ]
  },
  "RedirectException":{
    "type":"structure",
    "members":{
      "Location":{"shape":"Location"},
       "Message":{"shape":"Message"}
    },
    "documentation":"<p>This is not the correct Region for the resource. Try again.</p>",
```

"exception":true
},
"RejectGrantRequest":{
"type":"structure",
"required":["GrantArn"],
"members":{
"GrantArn":{
"shape":"Arn",
"documentation":" Amazon Resource Name (ARN) of the grant. "
}
}
},
"RejectGrantResponse":{
"type":"structure",
"members":{
"GrantArn":{
"shape":"Arn",
"documentation":" Grant ARN. "
},
"Status":{
"shape":"GrantStatus",
"documentation":" Grant status. "
},
"Version":{
"shape":"String",
"documentation":" Grant version. "
}
}
},
"RenewType":{
"type":"string",
"enum":[
"None",
"Weekly",
"Monthly"
]
},
"ReportContext":{
"type":"structure",
"required":["licenseConfigurationArns"],
"members":{
"licenseConfigurationArns":{
"shape":"ArnList",
"documentation":" Amazon Resource Name (ARN) of the license configuration that this generator reports on. "
}
},
"documentation":" Details of the license configuration that this generator reports on. "

```
  },
  "ReportFrequency":{
    "type":"structure",
    "members":{
      "value":{
        "shape":"Integer",
        "documentation":"<p>Number of times within the frequency period that a report is generated. The only
supported value is <code>1</code>.</p>"
      },
      "period":{
        "shape":"ReportFrequencyType",
        "documentation":"<p>Time period between each report. The period can be daily, weekly, or monthly.</p>"
      }
    },
    "documentation":"<p>Details about how frequently reports are generated.</p>"
  },
  "ReportFrequencyType":{
    "type":"string",
    "enum":[
      "DAY",
      "WEEK",
      "MONTH"
    ]
  },
  "ReportGenerator":{
    "type":"structure",
    "members":{
      "ReportGeneratorName":{
        "shape":"String",
        "documentation":"<p>Name of the report generator.</p>"
      },
      "ReportType":{
        "shape":"ReportTypeList",
        "documentation":"<p>Type of reports that are generated.</p>"
      },
      "ReportContext":{
        "shape":"ReportContext",
        "documentation":"<p>License configuration type for this generator.</p>"
      },
      "ReportFrequency":{
        "shape":"ReportFrequency",
        "documentation":"<p>Details about how frequently reports are generated.</p>"
      },
      "LicenseManagerReportGeneratorArn":{
        "shape":"String",
        "documentation":"<p>Amazon Resource Name (ARN) of the report generator.</p>"
      },
      "LastRunStatus":{
```

"shape":"String",
"documentation":" Status of the
last report generation attempt. "
},
"LastRunFailureReason":{
"shape":"String",
"documentation":" Failure message for the last report generation attempt. "
},
"LastReportGenerationTime":{
"shape":"String",
"documentation":" Time the last report was generated at. "
},
"ReportCreatorAccount":{
"shape":"String",
"documentation":" The Amazon Web Services account ID used to create the report generator. "
},
"Description":{
"shape":"String",
"documentation":" Description of the report generator. "
},
"S3Location":{
"shape":"S3Location",
"documentation":" Details of the S3 bucket that report generator reports are published to. "
},
"CreateTime":{
"shape":"String",
"documentation":" Time the report was created. "
},
"Tags":{

"shape":"TagList",
"documentation":" Tags associated with the report generator. "
}
},
"documentation":" Describe the details of a report generator. "
},
"ReportGeneratorList":{
"type":"list",
"member":{"shape":"ReportGenerator"}
},
"ReportGeneratorName":{
"type":"string",
"max":100,
"min":1
},
"ReportType":{
"type":"string",
"enum":[

"LicenseConfigurationSummaryReport",
"LicenseConfigurationUsageReport"
]
},
"ReportTypeList":{
"type":"list",
"member":{"shape":"ReportType"}
},
"ResourceInventory":{
"type":"structure",
"members":{
"ResourceId":{
"shape":"String",
"documentation":" ID of the resource. "
},
"ResourceType":{
"shape":"ResourceType",
"documentation":" Type of resource. "
},
"ResourceArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the resource. "
},
"Platform":{
"shape":"String",
"documentation":" Platform of the resource. "
},
"PlatformVersion":{
"shape":"String",
"documentation":" Platform version of the resource in the inventory. "
},
"ResourceOwningAccountId":{
"shape":"String",
"documentation":" ID of the account that owns the resource. "
}
},
"documentation":" Details about a resource. "
},
"ResourceInventoryList":{
"type":"list",
"member":{"shape":"ResourceInventory"}
},
"ResourceLimitExceededException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"documentation":" Your resource limits have been exceeded. ",

```
  "exception":true
},
"ResourceNotFoundException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>The resource cannot be found.</p>",
  "exception":true
},
"ResourceType":{
  "type":"string",
  "enum":[
    "EC2_INSTANCE",
    "EC2_HOST",
    "EC2_AMI",
    "RDS",
    "SYSTEMS_MANAGER_MANAGED_INSTANCE"
  ]
},
"S3Location":{
  "type":"structure",
  "members":{
    "bucket":{
      "shape":"String",
      "documentation":"<p>Name of the S3 bucket reports are published to.</p>"
    },
    "keyPrefix":{
      "shape":"String",
      "documentation":"<p>Prefix of the S3 bucket reports are published to.</p>"
    }
  },
  "documentation":"<p>Details of the S3 bucket that report generator reports are published to.</p>"
},
"ServerInternalException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>The server experienced an internal error. Try again.</p>",
   "exception":true,
  "fault":true
},
"SignedToken":{
  "type":"string",
  "min":4096
},
"StatusReasonMessage":{
```

```
  "type":"string",
  "max":400,
  "pattern":"[\\s\\S]+"
},
"String":{"type":"string"},
"StringList":{
  "type":"list",
  "member":{"shape":"String"}
},
"Tag":{
  "type":"structure",
  "members":{
    "Key":{
      "shape":"String",
      "documentation":"<p>Tag key.</p>"
    },
    "Value":{
      "shape":"String",
      "documentation":"<p>Tag value.</p>"
    }
  },
  "documentation":"<p>Details about a tag for a license configuration.</p>"
},
"TagKeyList":{
  "type":"list",
  "member":{"shape":"String"}
},
"TagList":{
  "type":"list",
  "member":{"shape":"Tag"}
},
"TagResourceRequest":{
  "type":"structure",
  "required":[
    "ResourceArn",
    "Tags"
  ],
  "members":{
    "ResourceArn":{
       "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    },
    "Tags":{
      "shape":"TagList",
      "documentation":"<p>One or more tags.</p>"
    }
  }
},
```

"TagResourceResponse":{
"type":"structure",
"members":{
}
},
"TokenData":{
"type":"structure",
"members":{
"TokenId":{
"shape":"String",
"documentation":" Token ID. "
},
"TokenType":{
"shape":"String",
"documentation":" Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>. "
},
"LicenseArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the license. "
},
"ExpirationTime":{
"shape":"ISO8601DateTime",
"documentation":" Token expiration time, in ISO8601-UTC format. "
},
"TokenProperties":{
"shape":"MaxSize3StringList",
"documentation":" Data specified by the caller. "
},
"RoleArns":{
"shape":"ArnList",
"documentation":" Amazon Resource Names (ARN) of the roles included in the token. "
},
"Status":{
"shape":"String",
"documentation":" Token status. The possible values are <code>AVAILABLE</code> and
<code>DELETED</code>. "
}
},
"documentation":" Describes a token. "
},
"TokenList":{
"type":"list",
"member":{"shape":"TokenData"}
},
"TokenString":{
"type":"string",
"max":4096,

"pattern":"\\S+"
},
"TokenType":{
"type":"string",
"enum":["REFRESH_TOKEN"]
},
"UnsupportedDigitalSignatureMethodException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"documentation":" The digital signature method is unsupported.
Try your request again. ",
"exception":true
},
"UntagResourceRequest":{
"type":"structure",
"required":[
"ResourceArn",
"TagKeys"
],
"members":{
"ResourceArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the license configuration. "
},
"TagKeys":{
"shape":"TagKeyList",
"documentation":" Keys identifying the tags to remove. "
}
}
},
"UntagResourceResponse":{
"type":"structure",
"members":{
}
},
"UpdateLicenseConfigurationRequest":{
"type":"structure",
"required":["LicenseConfigurationArn"],
"members":{
"LicenseConfigurationArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the license configuration. "
},
"LicenseConfigurationStatus":{
"shape":"LicenseConfigurationStatus",
"documentation":" New

status of the license configuration. "
      },
      "LicenseRules":{
        "shape":"StringList",
        "documentation":" New license rule. The only rule that you can add after you create a license configuration is licenseAffinityToHost. "
      },
      "LicenseCount":{
        "shape":"BoxLong",
        "documentation":" New number of licenses managed by the license configuration. "
      },
      "LicenseCountHardLimit":{
        "shape":"BoxBoolean",
        "documentation":" New hard limit of the number of available licenses. "
      },
      "Name":{
        "shape":"String",
        "documentation":" New name of the license configuration. "
      },
      "Description":{
        "shape":"String",
        "documentation":" New description of the license configuration. "
      },
      "ProductInformationList":{
        "shape":"ProductInformationList",
        "documentation":" New product information. "
      },
      "DisassociateWhenNotFound":{
        "shape":"BoxBoolean",
        "documentation":" When true, disassociates a resource when software is uninstalled. "
      }
    }
  },
  "UpdateLicenseConfigurationResponse":{
    "type":"structure",
    "members":{
    }
  },
  "UpdateLicenseManagerReportGeneratorRequest":{
    "type":"structure",
    "required":[
      "LicenseManagerReportGeneratorArn",
      "ReportGeneratorName",
      "Type",
      "ReportContext",
      "ReportFrequency",
      "ClientToken"

```
    ],
    "members":{
      "LicenseManagerReportGeneratorArn":{
        "shape":"String",
        "documentation":"<p>Amazon Resource Name (ARN) of the report generator to update.</p>"
      },
      "ReportGeneratorName":{
        "shape":"ReportGeneratorName",
        "documentation":"<p>Name of the report generator.</p>"
      },
      "Type":{
        "shape":"ReportTypeList",
         "documentation":"<p>Type of reports to generate. The following report types are supported:</p> <ul> <li>
<p>License configuration report - Reports the number and details of consumed licenses for a license
configuration.</p> </li> <li> <p>Resource report - Reports the tracked licenses and resource consumption for a
license configuration.</p> </li> </ul>"
      },
      "ReportContext":{
        "shape":"ReportContext",
        "documentation":"<p>The report context.</p>"
      },
      "ReportFrequency":{
        "shape":"ReportFrequency",
        "documentation":"<p>Frequency by which reports are generated.</p>"
      },
      "ClientToken":{
        "shape":"ClientRequestToken",
        "documentation":"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the
request.</p>"
      },
      "Description":{
        "shape":"String",
        "documentation":"<p>Description of the report generator.</p>"

  }
    }
  },
  "UpdateLicenseManagerReportGeneratorResponse":{
    "type":"structure",
    "members":{
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  },
  "UpdateLicenseSpecificationsForResourceRequest":{
    "type":"structure",
    "required":["ResourceArn"],
    "members":{
      "ResourceArn":{
        "shape":"String",
```

"documentation":" Amazon Resource Name (ARN) of the Amazon Web Services resource. "
},
"AddLicenseSpecifications":{
"shape":"LicenseSpecifications",
"documentation":" ARNs of the license configurations to add. "
},
"RemoveLicenseSpecifications":{
"shape":"LicenseSpecifications",
"documentation":" ARNs of the license configurations to remove. "
}
}
},
"UpdateLicenseSpecificationsForResourceResponse":{
"type":"structure",
"members":{
}
},
"UpdateServiceSettingsRequest":{
"type":"structure",
"members":{
"S3BucketArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the Amazon S3 bucket where the License Manager information is stored. "
},
"SnsTopicArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts. "
},
"OrganizationConfiguration":{
"shape":"OrganizationConfiguration",
"documentation":" Enables integration with Organizations for cross-account discovery. "
},
"EnableCrossAccountsDiscovery":{
"shape":"BoxBoolean",
"documentation":" Activates cross-account discovery. "
}
}
},
"UpdateServiceSettingsResponse":{
"type":"structure",
"members":{
}
},
"UsageOperation":{
"type":"string",
"max":50

```
  },
  "ValidationException":{
    "type":"structure",
    "members":{
      "Message":{"shape":"Message"}
     },
    "documentation":"<p>The provided input is not valid. Try your request again.</p>",
    "exception":true
  }
 },
 "documentation":"<p>License Manager makes it easier to manage licenses from software vendors across multiple
Amazon Web Services accounts and on-premises servers.</p>"
}
{
  "testCases": [
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      "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": true
      }
    },
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      "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
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        "endpoint": {
          "url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
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      },
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        "UseDualStack": false
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      "expect": {
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    },
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    "params": {
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      "UseFIPS": false,
      "UseDualStack": false
    }
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    "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-user-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
       }
    },
    "params": {
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      "UseFIPS": true,
      "UseDualStack": true
    }
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    "expect": {
      "endpoint": {
        "url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
      }
    },
    "params": {
      "Region": "cn-north-1",
      "UseFIPS": true,
      "UseDualStack": false
    }
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    "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
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    "params": {
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      "UseFIPS": false,
      "UseDualStack": true
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    "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
    "expect": {
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      "UseDualStack": true
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"UseDualStack": false
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"UseFIPS": false,
"UseDualStack": true

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}
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"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
}
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"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
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"params": {
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"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",

"expect": {
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"url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
}

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    "expect": {
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      "UseFIPS": false,
      "UseDualStack": true
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    "expect": {
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      }
    },
    "params": {
      "Region": "us-iso-east-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
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    "expect": {
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      "UseDualStack": true
    }
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    "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
      }
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         "UseFIPS": true,
          "UseDualStack": false
        }
      },
      {
        "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
        "expect": {
          "error": "DualStack is enabled but this partition does not support DualStack"
        },
        "params": {
          "Region": "us-isob-east-1",
          "UseFIPS": false,
          "UseDualStack": true
        }
      },
      {
        "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
          "endpoint": {
            "url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
          }
        },
        "params": {
          "Region": "us-isob-east-1",
          "UseFIPS": false,
          "UseDualStack": false
        }
      },
      {
        "documentation":
"For custom endpoint with region set and fips disabled and dualstack disabled",
        "expect": {
          "endpoint": {
            "url": "https://example.com"
          }
        },
        "params": {
          "Region": "us-east-1",
          "UseFIPS": false,
          "UseDualStack": false,
          "Endpoint": "https://example.com"
        }
      },
      {
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"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
"expect": {
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"params": {
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"UseDualStack": false,
"Endpoint": "https://example.com"
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"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
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"Endpoint": "https://example.com"
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"expect": {
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"UseFIPS": false,
"UseDualStack": true,
"Endpoint": "https://example.com"
}
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"expect": {
"error": "Invalid Configuration: Missing Region"
}
}
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"version": "1.0"
}
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"testCases": [

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    {
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      "expect": {
        "endpoint": {
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        }
      },
      "params": {
        "Region": "af-south-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region ap-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-east-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "ap-east-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region ap-northeast-1 with FIPS disabled and DualStack disabled",

"expect": {
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        }
      },
      "params": {
        "Region": "ap-northeast-1",
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        "UseDualStack": false
      }
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      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-northeast-2.amazonaws.com"
        }
      },
      "params": {
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"Region": "ap-northeast-2",
"UseFIPS": false,
"UseDualStack": false
}
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"documentation": "For region ap-northeast-3 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-northeast-3.amazonaws.com"
}
},
"params": {
"Region": "ap-northeast-3",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region ap-south-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-south-1.amazonaws.com"
}
},
"params": {
"Region": "ap-south-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region ap-southeast-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-southeast-1.amazonaws.com"
}
},
"params": {
"Region": "ap-southeast-1",

"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region ap-southeast-2 with FIPS disabled and DualStack disabled",
"expect": {

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            "endpoint": {
                "url": "https://license-manager.ap-southeast-2.amazonaws.com"
            }
        },
        "params": {
            "Region": "ap-southeast-2",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.ap-southeast-3.amazonaws.com"
            }
        },
        "params": {
            "Region": "ap-southeast-3",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
    {
        "documentation":
"For region ca-central-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.ca-central-1.amazonaws.com"
            }
        },
        "params": {
            "Region": "ca-central-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.eu-central-1.amazonaws.com"
            }
        },
        "params": {
            "Region": "eu-central-1",
            "UseFIPS": false,
            "UseDualStack": false
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      }
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      "documentation": "For region eu-north-1 with FIPS disabled and DualStack disabled",
      "expect": {
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        }
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      "params": {
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        "UseDualStack": false
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      "documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
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        }
      },
      "params": {
        "Region": "eu-south-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
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      "documentation": "For region eu-west-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.eu-west-1.amazonaws.com"
        }
      },
      "params":
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        "Region": "eu-west-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region eu-west-2 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.eu-west-2.amazonaws.com"
```

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            }
        },
        "params": {
            "Region": "eu-west-2",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region eu-west-3 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.eu-west-3.amazonaws.com"
            }
        },
        "params": {
            "Region": "eu-west-3",
            "UseFIPS": false,
            "UseDualStack": false
        }

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    {
        "documentation": "For region me-south-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.me-south-1.amazonaws.com"
            }
        },
        "params": {
            "Region": "me-south-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
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        "documentation": "For region sa-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.sa-east-1.amazonaws.com"
            }
        },
        "params": {
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            "UseFIPS": false,
            "UseDualStack": false
        }
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   "expect": {

   "endpoint": {
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   "params": {
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      "UseFIPS": false,
      "UseDualStack": false
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      }
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      "Region": "us-east-1",
      "UseFIPS": true,
      "UseDualStack": false
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   "expect": {
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         "url": "https://license-manager.us-east-2.amazonaws.com"
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      "UseFIPS": false,
      "UseDualStack": false
   }
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   "documentation": "For region us-east-2 with FIPS enabled and DualStack disabled",
   "expect": {
      "endpoint": {
         "url": "https://license-manager-fips.us-east-2.amazonaws.com"
      }
   },
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        "UseDualStack": false
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      "documentation": "For region us-west-1 with FIPS disabled and DualStack disabled",
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          "url": "https://license-manager.us-west-1.amazonaws.com"
        }
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      "params": {
        "Region": "us-west-1",
        "UseFIPS": false,
        "UseDualStack": false

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        "UseDualStack": false
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"UseFIPS": true,
"UseDualStack": true
}
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"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-east-1.api.aws"
}
},

"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",

"UseFIPS": false,
"UseDualStack": false
}
},
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"documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
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"endpoint": {
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"UseDualStack":
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}
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and DualStack enabled",
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        }
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        "UseFIPS": false,
        "UseDualStack": true
    }
},
{
    "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
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            "url": "https://license-manager.us-gov-east-1.amazonaws.com"
        }
    },
    "params": {
        "Region": "us-gov-east-1",
        "UseFIPS": false,
        "UseDualStack": false
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},
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},
{
    "documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
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        "UseFIPS": false,
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    }
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    },
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    },
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        "UseFIPS": false,
        "UseDualStack": true
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    {
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      "expect": {
        "endpoint": {
          "url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
        }
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        }
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        "UseFIPS": true,
        "UseDualStack": false
    }
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        "UseFIPS": false,
        "UseDualStack": true
    }
},
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```

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            "UseDualStack": false
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            "UseDualStack": true
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            }
        },
        "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": true,
            "UseDualStack": false
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     },
    {
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        },
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            "UseFIPS": false,
            "UseDualStack": true
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    },
    {
        "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
        "expect": {
            "endpoint": {
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            "url": "https://example.com"
        }
    },
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        "UseFIPS": false,
        "UseDualStack": false,
        "Endpoint": "https://example.com"
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            "url": "https://example.com"
        }
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        "UseDualStack": false,
        "Endpoint": "https://example.com"
    }
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    "expect": {
        "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
    },
    "params": {
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        "UseFIPS": true,
        "UseDualStack": false,
        "Endpoint": "https://example.com"
    }
},
{
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    "expect": {
        "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
    },
    "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": true,
        "Endpoint": "https://example.com"
    }
},
{
```

"documentation": "Missing region",
"expect": {
"error": "Invalid Configuration: Missing Region"
}
}
],
"version": "1.0"
}
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* Hartmut Goebel
* Martin Zibricky
*
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  "version": "1.0",
  "parameters": {
    "Region": {
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      "required": false,
      "documentation": "The AWS region used to dispatch the request.",
      "type": "String"
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      "builtIn": "AWS::UseDualStack",
```

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                    "type": "error"
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  }
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{
 "version":"2.0",
 "metadata":{
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   "protocols":["rest-json"],
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"documentation":" Remove a third-party subscription provider from the Bring Your Own License (BYOL) subscriptions registered to your account. ",
"idempotent":true
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"GetRegisteredSubscriptionProvider":{
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"documentation":" List Bring Your Own License (BYOL) subscription registration resources for your account. ",
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{"shape":"ResourceNotFoundException"},
{"shape":"ValidationException"}
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"documentation":" List the metadata tags that are assigned to the specified Amazon Web Services resource. "
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    "documentation":"<p>Register the supported third-party subscription provider for your Bring Your Own License
(BYOL) subscription.</p>",
    "idempotent":true
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"DeregisterSubscriptionProviderResponse":{
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"members":{
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"members":{
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"shape":"String",
"documentation":" The type of name to filter by. "
},
"Operator":{
"shape":"Operator",
"documentation":" An operator for filtering results. "

},
"Values":{
"shape":"StringList",
"documentation":" One or more values for the name to filter by. "
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"documentation":" A filter object that is used to return more specific results from a describe operation. Filters can be used to match a set of resources by specific criteria. "
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}
}
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"shape":"SecretArn",
"documentation":" The Amazon Resource Name (ARN) of the third-party access secret stored in Secrets Manager for the BYOL registration resource specified in the request. "
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"shape":"SubscriptionProviderSource",
"documentation":" The subscription provider for the BYOL registration resource specified in the request. "
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"documentation":" The status of the Linux subscription provider access token from the last successful subscription data request. "
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"documentation":" The detailed message from your subscription provider token status. "
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"shape":"LinuxSubscriptionsDiscovery",
"documentation":" Lists if discovery has been enabled for Linux subscriptions. "
},
"LinuxSubscriptionsDiscoverySettings":{
"shape":"LinuxSubscriptionsDiscoverySettings",
"documentation":" Lists the settings defined for Linux subscriptions discovery. The settings include if Organizations integration has been enabled, and which Regions data will be aggregated from. "
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"shape":"Status",
"documentation":" Indicates the status of Linux subscriptions settings being applied. "
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"documentation":" A
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"AccountID":{

"shape":"String",
"documentation":" The account ID which owns the instance. "
},
"AmiId":{
"shape":"String",
"documentation":" The AMI ID used to launch the instance. "
},
"DualSubscription":{
"shape":"String",
"documentation":" Indicates that you have two different license subscriptions for the same software on your instance. "
},
"InstanceID":{
"shape":"String",
"documentation":" The instance ID of the resource. "
},
"InstanceType":{
"shape":"String",
"documentation":" The instance type of the resource. "
},
"LastUpdatedTime":{
"shape":"String",
"documentation":" The
time in which the last discovery updated the instance details. "
},
"OsVersion":{
"shape":"String",
"documentation":" The operating system software version that runs on your instance. "
},
"ProductCode":{
"shape":"ProductCodeList",
"documentation":" The product code for the instance. For more information, see Usage operation values in the License Manager User Guide . "
},
"Region":{
"shape":"String",
"documentation":" The Region the instance is running in. "
},
"RegisteredWithSubscriptionProvider":{
"shape":"String",
"documentation":" Indicates that your instance uses a BYOL license subscription from a third-party Linux subscription provider that you've registered with License Manager. "
},
"Status":{
"shape":"String",
"documentation":" The status of the instance. "
},

"SubscriptionName":{
"shape":"String",
"documentation":" The name of the license subscription that the instance uses. "
},
"SubscriptionProviderCreateTime":{
"shape":"String",
"documentation":" The timestamp when you registered the third-party Linux subscription provider for the subscription that the instance uses. "
},
"SubscriptionProviderUpdateTime":{
"shape":"String",
"documentation":" The timestamp from the last time that the instance synced with the registered third-party Linux subscription provider. "
},
"UsageOperation":{
"shape":"String",
"documentation":" The usage operation of the instance. For more information, see For more information, see Usage
operation values in the License Manager User Guide. "
}
},
"documentation":" Details discovered information about a running instance using Linux subscriptions. "
},
"InstanceList":{
"type":"list",
"member":{"shape":"Instance"}
},
"InternalServerException":{
"type":"structure",
"members":{
"message":{"shape":"String"}
},
"documentation":" An exception occurred with the service. ",
"exception":true,
"fault":true
},
"LinuxSubscriptionsDiscovery":{
"type":"string",
"enum":[
"Enabled",
"Disabled"
]
},
"LinuxSubscriptionsDiscoverySettings":{
"type":"structure",
"required":[
"OrganizationIntegration",

"SourceRegions"
],
"members":{
"OrganizationIntegration":{
"shape":"OrganizationIntegration",
"documentation":" Details
if you have enabled resource discovery across your accounts in Organizations. "
},
"SourceRegions":{
"shape":"StringList",
"documentation":" The Regions in which to discover data for Linux subscriptions. "
}
},
"documentation":" Lists the settings defined for discovering Linux subscriptions. "
},
"ListLinuxSubscriptionInstancesRequest":{
"type":"structure",
"members":{
"Filters":{
"shape":"FilterList",
"documentation":" An array of structures that you can use to filter the results by your specified criteria. For example, you can specify <code>Region</code> in the <code>Name</code>, with the <code>contains</code> operator to list all subscriptions that match a partial string in the <code>Value</code>, such as <code>us-west</code>. For each filter, you can specify one of the following values for the <code>Name</code> key to streamline results:
  <code>AccountID</code>   <code>AmiID</code>   <code>DualSubscription</code>   <code>InstanceID</code>   <code>InstanceType</code>   <code>ProductCode</code>   <code>Region</code>   <code>Status</code>   <code>UsageOperation</code>   For each filter, you can use one of the following <code>Operator</code> values to define the behavior of the filter: <ul> <code>contains</code>   <code>equals</code>   <code>Notequal</code> "
},
"MaxResults":{
"shape":"BoxInteger",
"documentation":" The maximum items to return in a request. "
},
"NextToken":{
"shape":"ListLinuxSubscriptionInstancesRequestNextTokenString",
"documentation":" A token to specify where to start paginating.
This is the nextToken from a previously truncated response. "
}
},
"documentation":" NextToken length limit is half of ddb accepted limit. Increase this limit if parameters in request increases. "
},
"ListLinuxSubscriptionInstancesRequestNextTokenString":{
"type":"string",

"max":16384,
"min":1
},
"ListLinuxSubscriptionInstancesResponse":{
"type":"structure",
"members":{
"Instances":{
"shape":"InstanceList",
"documentation":" An array that contains instance objects. "
},
"NextToken":{
"shape":"String",
"documentation":" The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects. "
}
}
},
"ListLinuxSubscriptionsRequest":{
"type":"structure",
"members":{
"Filters":{
"shape":"FilterList",
"documentation":" An array of structures that you can use to filter the results to those that match one or more sets of key-value pairs that you specify. For example, you can filter by the name of <code>Subscription</code> with an optional operator to see subscriptions that match, partially match, or don't match a certain subscription's name. The valid names for this filter are: <ul> <code>Subscription</code>   The valid Operators for this filter are: <ul> <code>contains</code>   <code>equals</code>   <code>Notequal</code> "
},
"MaxResults":{
"shape":"BoxInteger",
"documentation":" The maximum items to return in a request. "
},
"NextToken":{
"shape":"ListLinuxSubscriptionsRequestNextTokenString",
"documentation":" A token to specify where
to start paginating. This is the nextToken from a previously truncated response. "
}
},
"documentation":" NextToken length limit is half of ddb accepted limit. Increase this limit if parameters in request increases. "
},
"ListLinuxSubscriptionsRequestNextTokenString":{
"type":"string",
"max":16384,
"min":1

},
"ListLinuxSubscriptionsResponse":{
"type":"structure",
"members":{
"NextToken":{
"shape":"String",
"documentation":" The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects. "
},
"Subscriptions":{
"shape":"SubscriptionList",
"documentation":" An array that contains subscription objects. "
}
}
},
"ListRegisteredSubscriptionProvidersRequest":{
"type":"structure",
"members":{
"MaxResults":{
"shape":"ListRegisteredSubscriptionProvidersRequestMaxResultsInteger",
"documentation":" The maximum items to return in a request. "
},
"NextToken":{
"shape":"String",
"documentation":" A token to specify where to start paginating. This is the nextToken from a previously truncated response. "
},
"SubscriptionProviderSources":{
"shape":"SubscriptionProviderSourceList",
"documentation":" To filter your results, specify which subscription providers to return in the list. "
}
}
},
"ListRegisteredSubscriptionProvidersRequestMaxResultsInteger":{
"type":"integer",
"box":true,
"max":100,
"min":1
},
"ListRegisteredSubscriptionProvidersResponse":{
"type":"structure",
"members":{
"NextToken":{
"shape":"String",
"documentation":" The next token
used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects. "

```
      },
      "RegisteredSubscriptionProviders":{
        "shape":"RegisteredSubscriptionProviderList",
        "documentation":"<p>The list of BYOL registration resources that fit the criteria you specified in the
request.</p>"
      }
    }
  },
  "ListTagsForResourceRequest":{
    "type":"structure",
    "required":["resourceArn"],
    "members":{
      "resourceArn":{
        "shape":"SubscriptionProviderArn",
        "documentation":"<p>The Amazon Resource Name (ARN) of the resource for which to list metadata
tags.</p>",
        "location":"uri",
        "locationName":"resourceArn"
      }
    }
  },
  "ListTagsForResourceResponse":{
    "type":"structure",
    "members":{
      "tags":{
        "shape":"Tags",

   "documentation":"<p>The metadata tags for the requested resource.</p>"
      }
    }
  },
  "Operator":{
    "type":"string",
    "enum":[
      "Equal",
      "NotEqual",
      "Contains"
    ],
    "max":20,
    "min":1
  },
  "OrganizationIntegration":{
    "type":"string",
    "enum":[
      "Enabled",
      "Disabled"
    ]
  },
```

"ProductCodeList":{
"type":"list",
"member":{"shape":"String"}
},
"RegisterSubscriptionProviderRequest":{
"type":"structure",
"required":[
"SecretArn",
"SubscriptionProviderSource"
],
"members":{
"SecretArn":{
"shape":"SecretArn",
"documentation":" The Amazon Resource Name (ARN) of the secret where you've stored your subscription provider's access token. For RHEL subscriptions managed through the Red Hat Subscription Manager (RHSM), the secret contains your Red Hat Offline token. "
},
"SubscriptionProviderSource":{
"shape":"SubscriptionProviderSource",
"documentation":" The supported Linux subscription provider to register. "
},
"Tags":{
"shape":"Tags",
"documentation":" The metadata tags to assign to your registered Linux subscription provider resource. "
}
}
},
"RegisterSubscriptionProviderResponse":{
"type":"structure",
"members":{
"SubscriptionProviderArn":{
"shape":"String",
"documentation":" The Amazon Resource Name (ARN) of the Linux subscription provider resource that you registered. "
},
"SubscriptionProviderSource":{
"shape":"SubscriptionProviderSource",
"documentation":" The Linux subscription provider that you registered. "
},
"SubscriptionProviderStatus":{
"shape":"SubscriptionProviderStatus",
"documentation":" Indicates the status of the registration action for the Linux subscription provider that you requested. "
}
}
},
"RegisteredSubscriptionProvider":{

"type":"structure",
"members":{
"LastSuccessfulDataRetrievalTime":{
"shape":"String",
"documentation":" The timestamp from the last time that License Manager accessed third-party subscription data for your account from your registered Linux subscription provider. "
},
"SecretArn":{
"shape":"SecretArn",
"documentation":" The Amazon Resource Name (ARN) of the Secrets Manager secret that stores your registered Linux subscription provider access token. For RHEL account subscriptions, this is the offline token. "
},
"SubscriptionProviderArn":{
"shape":"SubscriptionProviderArn",
"documentation":" The Amazon Resource Name (ARN) of the Linux subscription provider resource that you registered. "
},
"SubscriptionProviderSource":{

"shape":"SubscriptionProviderSource",
"documentation":" A supported third-party Linux subscription provider. License Manager currently supports Red Hat subscriptions. "
},
"SubscriptionProviderStatus":{
"shape":"SubscriptionProviderStatus",
"documentation":" Indicates the status of your registered Linux subscription provider access token from the last time License Manager retrieved subscription data. For RHEL account subscriptions, this is the status of the offline token. "
},
"SubscriptionProviderStatusMessage":{
"shape":"String",
"documentation":" A detailed message that's associated with your BYOL subscription provider token status. "
}
},
"documentation":" A third-party provider for operating system (OS) platform software and license subscriptions, such as Red Hat. When you register a third-party Linux subscription provider, License Manager can get subscription
data from the registered provider. "
},
"RegisteredSubscriptionProviderList":{
"type":"list",
"member":{"shape":"RegisteredSubscriptionProvider"}
},
"ResourceNotFoundException":{
"type":"structure",
"members":{
"message":{"shape":"String"}

```
  },
  "documentation":"<p>Unable to find the requested Amazon Web Services resource.</p>",
  "exception":true
},
"SecretArn":{
  "type":"string",
  "pattern":"^arn:[a-z0-9-\\.]{1,63}:secretsmanager:[a-z0-9-\\.]{0,63}:[a-z0-9-\\.]{0,63}:secret:[^/]{1,1023}$"
},
"Status":{
  "type":"string",
  "enum":[
    "InProgress",
    "Completed",
    "Successful",
    "Failed"
  ]
},
"String":{"type":"string"},
"StringList":{
  "type":"list",
  "member":{"shape":"StringListMemberString"},
  "max":100,
  "min":1
},
"StringListMemberString":{
  "type":"string",
  "max":100,
  "min":1
},
"StringMap":{
   "type":"map",
  "key":{"shape":"String"},
  "value":{"shape":"String"}
},
"Subscription":{
  "type":"structure",
  "members":{
    "InstanceCount":{
      "shape":"BoxLong",
      "documentation":"<p>The total amount of running instances using this subscription.</p>"
    },
    "Name":{
      "shape":"String",
      "documentation":"<p>The name of the subscription.</p>"
    },
    "Type":{
      "shape":"String",
      "documentation":"<p>The type of subscription. The type can be subscription-included with Amazon EC2,
```

Bring Your Own Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS. "
      }
    },
    "documentation":" An object which details a discovered Linux subscription. "
  },
  "SubscriptionList":{
    "type":"list",
    "member":{"shape":"Subscription"}
   },
  "SubscriptionProviderArn":{
    "type":"string",
    "pattern":"^arn:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,510}/[a-z0-9-\\.]{1,510}$"
  },
  "SubscriptionProviderSource":{
    "type":"string",
    "enum":["RedHat"]
  },
  "SubscriptionProviderSourceList":{
    "type":"list",
    "member":{"shape":"SubscriptionProviderSource"}
  },
  "SubscriptionProviderStatus":{
    "type":"string",
    "enum":[
      "ACTIVE",
      "INVALID",
      "PENDING"
    ]
  },
  "TagKeyList":{
    "type":"list",
    "member":{"shape":"String"},
    "max":50,
    "min":0,
    "sensitive":true
  },
  "TagResourceRequest":{
    "type":"structure",
    "required":[
      "resourceArn",
      "tags"
    ],
    "members":{
      "resourceArn":{
        "shape":"SubscriptionProviderArn",

"documentation":" The Amazon Resource Name (ARN) of the Amazon Web Services resource to which to add the specified metadata tags. ",
"location":"uri",
"locationName":"resourceArn"
},
"tags":{
"shape":"Tags",
"documentation":" The metadata tags to assign to the Amazon Web Services resource. Tags are formatted as key value pairs. "
}
}
},
"TagResourceResponse":{
"type":"structure",
"members":{
}
},
"Tags":{
"type":"map",
"key":{"shape":"String"},
"value":{"shape":"String"},
"max":50,
"min":0,
"sensitive":true
},
"ThrottlingException":{
"type":"structure",
"members":{
"message":{"shape":"String"}
},
"documentation":" The request was denied due to request throttling. ",
"exception":true
},
"UntagResourceRequest":{
"type":"structure",
"required":[
"resourceArn",
"tagKeys"
],
"members":{
"resourceArn":{
"shape":"SubscriptionProviderArn",
"documentation":" The Amazon Resource Name (ARN) of the Amazon Web Services resource to remove the metadata tags from. ",
"location":"uri",
"locationName":"resourceArn"
},
"tagKeys":{

"shape":"TagKeyList",
"documentation":" A list of metadata tag keys to remove from the requested resource. ",
"location":"querystring",
"locationName":"tagKeys"
}
}
},
"UntagResourceResponse":{
"type":"structure",
"members":{
}
},
"UpdateServiceSettingsRequest":{
"type":"structure",
"required":[
"LinuxSubscriptionsDiscovery",
"LinuxSubscriptionsDiscoverySettings"
],
"members":{
"AllowUpdate":{
"shape":"Boolean",
"documentation":" Describes if updates are allowed to the service settings for Linux subscriptions. If you allow updates, you can aggregate
Linux subscription data in more than one home Region. "
},
"LinuxSubscriptionsDiscovery":{
"shape":"LinuxSubscriptionsDiscovery",
"documentation":" Describes if the discovery of Linux subscriptions is enabled. "
},
"LinuxSubscriptionsDiscoverySettings":{
"shape":"LinuxSubscriptionsDiscoverySettings",
"documentation":" The settings defined for Linux subscriptions discovery. The settings include if Organizations integration has been enabled, and which Regions data will be aggregated from. "
}
}
},
"UpdateServiceSettingsResponse":{
"type":"structure",
"members":{
"HomeRegions":{
"shape":"StringList",
"documentation":" The Region in which License Manager displays the aggregated data for Linux subscriptions. "
},
"LinuxSubscriptionsDiscovery":{
"shape":"LinuxSubscriptionsDiscovery",
"documentation":" Lists

if discovery has been enabled for Linux subscriptions. "
      },
      "LinuxSubscriptionsDiscoverySettings":{
        "shape":"LinuxSubscriptionsDiscoverySettings",
        "documentation":" The settings defined for Linux subscriptions discovery. The settings include if Organizations integration has been enabled, and which Regions data will be aggregated from. "
      },
      "Status":{
        "shape":"Status",
        "documentation":" Indicates the status of Linux subscriptions settings being applied. "
      },
      "StatusMessage":{
        "shape":"StringMap",
        "documentation":" A message which details the Linux subscriptions service settings current status. "
      }
    }
  },
  "ValidationException":{
    "type":"structure",
    "members":{
      "message":{"shape":"String"}
    },
    "documentation":" The provided input is not valid. Try your request again. ",
    "exception":true
  }

},
"documentation":" With License Manager, you can discover and track your commercial Linux subscriptions on running Amazon EC2 instances. "
}
{
  "ResponseMetadata": {
      "RequestId": "9a285199-c8d6-47c2-bdb2-314cb47d599d"
  }
}
{
"pagination": {
  "ListIdentityProviders": {
    "input_token": "NextToken",
    "output_token": "NextToken",
    "limit_key": "MaxResults",
    "result_key": "IdentityProviderSummaries"
  },
  "ListInstances": {
    "input_token": "NextToken",
    "output_token": "NextToken",
    "limit_key": "MaxResults",
    "result_key": "InstanceSummaries"

```
    },
    "ListProductSubscriptions": {
      "input_token": "NextToken",
      "output_token": "NextToken",
      "limit_key": "MaxResults",
      "result_key": "ProductUserSummaries"
    },
    "ListUserAssociations": {
      "input_token": "NextToken",
      "output_token": "NextToken",
      "limit_key": "MaxResults",
      "result_key": "InstanceUserSummaries"
    },
    "ListLicenseServerEndpoints": {
      "input_token": "NextToken",
      "output_token": "NextToken",
      "limit_key": "MaxResults",
      "result_key": "LicenseServerEndpoints"
    }
  }
}
{
  "version":"2.0",
  "metadata":{
    "apiVersion":"2018-05-10",
    "endpointPrefix":"license-manager-user-subscriptions",
    "jsonVersion":"1.1",
    "protocol":"rest-json",
    "protocols":["rest-json"],
    "serviceFullName":"AWS License Manager User Subscriptions",
    "serviceId":"License Manager User Subscriptions",
    "signatureVersion":"v4",
    "signingName":"license-manager-user-subscriptions",
    "uid":"license-manager-user-subscriptions-2018-05-10",
    "auth":["aws.auth#sigv4"]
  },
  "operations":{
    "AssociateUser":{
      "name":"AssociateUser",
      "http":{
        "method":"POST",
        "requestUri":"/user/AssociateUser",
        "responseCode":200
      },
      "input":{"shape":"AssociateUserRequest"},
      "output":{"shape":"AssociateUserResponse"},
      "errors":[
        {"shape":"ServiceQuotaExceededException"},
```

{"shape":"ConflictException"},
{"shape":"ValidationException"},
{"shape":"ThrottlingException"},
{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"},
{"shape":"AccessDeniedException"}
],
"documentation":" Associates the user to an EC2 instance to utilize user-based subscriptions. <note> Your estimated bill for charges on the number of users and related costs will take 48 hours to appear for billing periods that haven't closed (marked as Pending billing status) in Amazon Web Services Billing. For more information, see Viewing your monthly charges in the Amazon Web Services Billing User Guide. </note>",
"idempotent":true
},
"CreateLicenseServerEndpoint":{
"name":"CreateLicenseServerEndpoint",
"http":{
"method":"POST",
"requestUri":"/license-server/CreateLicenseServerEndpoint",
"responseCode":200
},
"input":{"shape":"CreateLicenseServerEndpointRequest"},
"output":{"shape":"CreateLicenseServerEndpointResponse"},
"errors":[
{"shape":"ServiceQuotaExceededException"},
{"shape":"ConflictException"},
{"shape":"ValidationException"},
{"shape":"ThrottlingException"},
{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"},
{"shape":"AccessDeniedException"}
],
"documentation":" Creates a network endpoint for the Remote Desktop Services (RDS) license server. ",
"idempotent":true
},
"DeleteLicenseServerEndpoint":{
"name":"DeleteLicenseServerEndpoint",
"http":{
"method":"POST",
"requestUri":"/license-server/DeleteLicenseServerEndpoint",
"responseCode":200
},
"input":{"shape":"DeleteLicenseServerEndpointRequest"},
"output":{"shape":"DeleteLicenseServerEndpointResponse"},
"errors":[
{"shape":"ServiceQuotaExceededException"},
{"shape":"ConflictException"},
{"shape":"ValidationException"},

{"shape":"ThrottlingException"},
{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"},
{"shape":"AccessDeniedException"}
],
"documentation":" Deletes a <code>LicenseServerEndpoint</code> resource. ",
"idempotent":true
},
"DeregisterIdentityProvider":{
"name":"DeregisterIdentityProvider",
"http":{
"method":"POST",
"requestUri":"/identity-provider/DeregisterIdentityProvider",
"responseCode":200
},
"input":{"shape":"DeregisterIdentityProviderRequest"},
"output":{"shape":"DeregisterIdentityProviderResponse"},
"errors":[
{"shape":"ServiceQuotaExceededException"},
{"shape":"ConflictException"},
{"shape":"ValidationException"},
{"shape":"ThrottlingException"},
{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"},
{"shape":"AccessDeniedException"}

],
"documentation":" Deregisters the Active Directory identity provider from License Manager user-based subscriptions. ",
"idempotent":true
},
"DisassociateUser":{
"name":"DisassociateUser",
"http":{
"method":"POST",
"requestUri":"/user/DisassociateUser",
"responseCode":200
},
"input":{"shape":"DisassociateUserRequest"},
"output":{"shape":"DisassociateUserResponse"},
"errors":[
{"shape":"ServiceQuotaExceededException"},
{"shape":"ConflictException"},
{"shape":"ValidationException"},
{"shape":"ThrottlingException"},
{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"},
{"shape":"AccessDeniedException"}

```
  ],
  "documentation":"<p>Disassociates the user from an EC2 instance providing user-based subscriptions.</p>",
  "idempotent":true
},
"ListIdentityProviders":{
  "name":"ListIdentityProviders",

"http":{
    "method":"POST",
    "requestUri":"/identity-provider/ListIdentityProviders",
    "responseCode":200
  },
  "input":{"shape":"ListIdentityProvidersRequest"},
  "output":{"shape":"ListIdentityProvidersResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerException"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "documentation":"<p>Lists the Active Directory identity providers for user-based subscriptions.</p>"
},
"ListInstances":{
  "name":"ListInstances",
  "http":{
    "method":"POST",
    "requestUri":"/instance/ListInstances",
    "responseCode":200
  },
  "input":{"shape":"ListInstancesRequest"},
  "output":{"shape":"ListInstancesResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
     {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerException"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "documentation":"<p>Lists the EC2 instances providing user-based subscriptions.</p>"
},
"ListLicenseServerEndpoints":{
  "name":"ListLicenseServerEndpoints",
  "http":{
```

"method":"POST",
"requestUri":"/license-server/ListLicenseServerEndpoints",
"responseCode":200
},
"input":{"shape":"ListLicenseServerEndpointsRequest"},
"output":{"shape":"ListLicenseServerEndpointsResponse"},
"errors":[
{"shape":"ServiceQuotaExceededException"},
{"shape":"ConflictException"},
{"shape":"ValidationException"},
{"shape":"ThrottlingException"},
{"shape":"InternalServerException"},
{"shape":"AccessDeniedException"}
],
"documentation":" List the Remote Desktop Services (RDS) License Server endpoints "
},
"ListProductSubscriptions":{
"name":"ListProductSubscriptions",
"http":{
"method":"POST",
"requestUri":"/user/ListProductSubscriptions",
"responseCode":200
},
"input":{"shape":"ListProductSubscriptionsRequest"},
"output":{"shape":"ListProductSubscriptionsResponse"},
"errors":[
{"shape":"ServiceQuotaExceededException"},
{"shape":"ConflictException"},
{"shape":"ValidationException"},
{"shape":"ThrottlingException"},
{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"},
{"shape":"AccessDeniedException"}
],
"documentation":" Lists the user-based subscription products available from an identity provider. "
},
"ListTagsForResource":{
"name":"ListTagsForResource",
"http":{
"method":"GET",
"requestUri":"/tags/{ResourceArn}",
"responseCode":200
},
"input":{"shape":"ListTagsForResourceRequest"},
"output":{"shape":"ListTagsForResourceResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InternalServerException"},

```
    {"shape":"ResourceNotFoundException"}
  ],
  "documentation":"<p>Returns the list of tags for the specified resource.</p>"
},
"ListUserAssociations":{
  "name":"ListUserAssociations",
  "http":{
    "method":"POST",
    "requestUri":"/user/ListUserAssociations",
    "responseCode":200
  },
  "input":{"shape":"ListUserAssociationsRequest"},
  "output":{"shape":"ListUserAssociationsResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerException"},
    {"shape":"ResourceNotFoundException"},
     {"shape":"AccessDeniedException"}
  ],
  "documentation":"<p>Lists user associations for an identity provider.</p>"
},
"RegisterIdentityProvider":{
  "name":"RegisterIdentityProvider",
  "http":{
    "method":"POST",
    "requestUri":"/identity-provider/RegisterIdentityProvider",
    "responseCode":200
  },
  "input":{"shape":"RegisterIdentityProviderRequest"},
  "output":{"shape":"RegisterIdentityProviderResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerException"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "documentation":"<p>Registers an identity provider for user-based subscriptions.</p>",
  "idempotent":true
},
"StartProductSubscription":{
   "name":"StartProductSubscription",
  "http":{
```

"method":"POST",
"requestUri":"/user/StartProductSubscription",
"responseCode":200
},
"input":{"shape":"StartProductSubscriptionRequest"},
"output":{"shape":"StartProductSubscriptionResponse"},
"errors":[
{"shape":"ServiceQuotaExceededException"},
{"shape":"ConflictException"},
{"shape":"ValidationException"},
{"shape":"ThrottlingException"},
{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"},
{"shape":"AccessDeniedException"}
],
"documentation":" Starts a product subscription for a user with the specified identity provider. <note> Your estimated bill for charges on the number of users and related costs will take 48 hours to appear for billing periods that haven't closed (marked as Pending billing status) in Amazon Web Services Billing. For more information, see Viewing your monthly charges in the Amazon Web Services Billing User Guide. </note>"
},
"StopProductSubscription":{
"name":"StopProductSubscription",
"http":{
"method":"POST",
"requestUri":"/user/StopProductSubscription",
"responseCode":200
},
"input":{"shape":"StopProductSubscriptionRequest"},
"output":{"shape":"StopProductSubscriptionResponse"},
"errors":[
{"shape":"ServiceQuotaExceededException"},
{"shape":"ConflictException"},
{"shape":"ValidationException"},
{"shape":"ThrottlingException"},
{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"},
{"shape":"AccessDeniedException"}
],
"documentation":" Stops a product subscription for a user with the specified identity provider. "
},
"TagResource":{
"name":"TagResource",

"http":{
"method":"PUT",
"requestUri":"/tags/{ResourceArn}",
"responseCode":200

```
    },
    "input":{"shape":"TagResourceRequest"},
    "output":{"shape":"TagResourceResponse"},
    "errors":[
      {"shape":"ValidationException"},
      {"shape":"InternalServerException"},
      {"shape":"ResourceNotFoundException"}
    ],
    "documentation":"<p>Adds tags to a resource.</p>",
    "idempotent":true
  },
  "UntagResource":{
    "name":"UntagResource",
    "http":{
      "method":"DELETE",
      "requestUri":"/tags/{ResourceArn}",
      "responseCode":200
    },
    "input":{"shape":"UntagResourceRequest"},
    "output":{"shape":"UntagResourceResponse"},
    "errors":[
      {"shape":"InternalServerException"},
      {"shape":"ResourceNotFoundException"}
    ],
    "documentation":"<p>Removes tags from a resource.</p>",
    "idempotent":true
  },
  "UpdateIdentityProviderSettings":{
    "name":"UpdateIdentityProviderSettings",
     "http":{
      "method":"POST",
      "requestUri":"/identity-provider/UpdateIdentityProviderSettings",
      "responseCode":200
    },
    "input":{"shape":"UpdateIdentityProviderSettingsRequest"},
    "output":{"shape":"UpdateIdentityProviderSettingsResponse"},
    "errors":[
      {"shape":"ValidationException"},
      {"shape":"ThrottlingException"},
      {"shape":"InternalServerException"},
      {"shape":"AccessDeniedException"}
    ],
    "documentation":"<p>Updates additional product configuration settings for the registered identity
provider.</p>",
    "idempotent":true
  }
 },
 "shapes":{
```

"AccessDeniedException":{
"type":"structure",
"members":{
"message":{"shape":"String"}
},
"documentation":" You don't have sufficient access to perform this action. ",
"exception":true
},
"ActiveDirectoryIdentityProvider":{
"type":"structure",
"members":{

"ActiveDirectorySettings":{
"shape":"ActiveDirectorySettings",
"documentation":" The <code>ActiveDirectorySettings</code> resource contains details about the Active Directory, including network access details such as domain name and IP addresses, and the credential provider for user administration. "
},
"ActiveDirectoryType":{
"shape":"ActiveDirectoryType",
"documentation":" The type of Active Directory either a self-managed Active Directory or an Amazon Web Services Managed Active Directory. "
},
"DirectoryId":{
"shape":"Directory",
"documentation":" The directory ID for an Active Directory identity provider. "
}
},
"documentation":" Details about an Active Directory identity provider. "
},
"ActiveDirectorySettings":{
"type":"structure",
"members":{
"DomainCredentialsProvider":{
"shape":"CredentialsProvider",

"documentation":" Points to the <code>CredentialsProvider</code> resource that contains information about the credential provider for user administration. "
},
"DomainIpv4List":{
"shape":"ActiveDirectorySettingsDomainIpv4ListList",
"documentation":" A list of domain IPv4 addresses that are used for the Active Directory. "
},
"DomainName":{
"shape":"String",
"documentation":" The domain name for the Active Directory. "
},
"DomainNetworkSettings":{

"shape":"DomainNetworkSettings",
"documentation":" The <code>DomainNetworkSettings</code> resource contains an array of subnets that apply for the Active Directory. "
}
},
"documentation":" Contains network access and credential details that are needed for user administration in the Active Directory. "
},
"ActiveDirectorySettingsDomainIpv4ListList":{
"type":"list",
"member":{"shape":"IpV4"},
"max":2,
"min":1
},
"ActiveDirectoryType":{
"type":"string",
"enum":[
"SELF_MANAGED",
"AWS_MANAGED"
]
},
"Arn":{
"type":"string",
"pattern":"^arn:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-zA-Z0-9-\\.]{1,510}/[a-zA-Z0-9-\\.]{1,510}$"
},
"AssociateUserRequest":{
"type":"structure",
"required":[
"IdentityProvider",
"InstanceId",
"Username"
],
"members":{
"Domain":{
"shape":"String",
"documentation":" The domain name of the Active Directory that contains information for the user to associate. "
},
"IdentityProvider":{
"shape":"IdentityProvider",
"documentation":" The identity provider for the user. "
},
"InstanceId":{
"shape":"String",
"documentation":" The ID of the EC2 instance that provides
the user-based subscription. "
},

"Tags":{
"shape":"Tags",
"documentation":" The tags that apply for the user association. "
},
"Username":{
"shape":"String",
"documentation":" The user name from the identity provider. "
}
}
},
"AssociateUserResponse":{
"type":"structure",
"required":["InstanceUserSummary"],
"members":{
"InstanceUserSummary":{
"shape":"InstanceUserSummary",
"documentation":" Metadata that describes the associate user operation. "
}
}
},
"BoxInteger":{
"type":"integer",
"box":true
},
"ConflictException":{
"type":"structure",
"members":{
"message":{"shape":"String"}
},
"documentation":" The request couldn't be completed because it conflicted with the current state of the resource. ",
"exception":true,
"fault":true
},
"CreateLicenseServerEndpointRequest":{
"type":"structure",
"required":[
"IdentityProviderArn",
"LicenseServerSettings"
],
"members":{
"IdentityProviderArn":{
"shape":"Arn",
"documentation":" The Amazon Resource Name (ARN) that identifies the <code>IdentityProvider</code> resource that contains details about a registered identity provider. In the case of Active Directory, that can be a self-managed Active Directory or an Amazon Web Services Managed Active Directory that contains user identity details. "
},

"LicenseServerSettings":{
"shape":"LicenseServerSettings",
"documentation":" The <code>LicenseServerSettings</code> resource to create for the endpoint. The settings include the type of license server and the Secrets Manager secret that enables administrators to add or remove users associated with the license server. "
},
"Tags":{
"shape":"Tags",
"documentation":" The tags that apply for the license server endpoint. "
}
}
},
"CreateLicenseServerEndpointResponse":{
"type":"structure",
"members":{
"IdentityProviderArn":{
"shape":"Arn",
"documentation":" The Amazon Resource Name (ARN) of the identity provider specified in the request. "
},
"LicenseServerEndpointArn":{
"shape":"Arn",
"documentation":" The ARN of the <code>LicenseServerEndpoint</code> resource. "
}
}
},
"CredentialsProvider":{
"type":"structure",
"members":{
"SecretsManagerCredentialsProvider":{
"shape":"SecretsManagerCredentialsProvider",
"documentation":" Identifies the Secrets Manager secret that contains credentials needed for user administration in the Active Directory. "
}
},
"documentation":" Contains information about the credential provider for user administration. ",
"union":true
},
"DeleteLicenseServerEndpointRequest":{
"type":"structure",
"required":[
"LicenseServerEndpointArn",
"ServerType"
],
"members":{
"LicenseServerEndpointArn":{
"shape":"Arn",

"documentation":" The Amazon Resource Name (ARN) that identifies the <code>LicenseServerEndpoint</code> resource to delete. "
},
"ServerType":{
"shape":"ServerType",
"documentation":" The type of License Server that the delete request refers to. "
}
}
},
"DeleteLicenseServerEndpointResponse":{
"type":"structure",
"members":{
"LicenseServerEndpoint":{
"shape":"LicenseServerEndpoint",
"documentation":" Shows details from the <code>LicenseServerEndpoint</code> resource that was deleted. "
}
}
},
"DeregisterIdentityProviderRequest":{
"type":"structure",
"members":{
"IdentityProvider":{
"shape":"IdentityProvider",
"documentation":" An object that specifies details for the Active Directory identity provider. "
},
"IdentityProviderArn":{
"shape":"Arn",
"documentation":" The Amazon Resource Name (ARN) that identifies the identity provider to deregister. "
},
"Product":{
"shape":"String",
"documentation":" The name of the user-based subscription product. Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> "
}
}
},
"DeregisterIdentityProviderResponse":{
"type":"structure",
"required":["IdentityProviderSummary"],
"members":{
"IdentityProviderSummary":{
"shape":"IdentityProviderSummary",
"documentation":" Metadata that describes the results of an identity provider operation. "
}
}

```
  },
  "Directory":{
    "type":"string",
    "pattern":"^(d|sd)-[0-9a-f]{10}$"
  },
  "DisassociateUserRequest":{
    "type":"structure",
    "members":{
      "Domain":{
        "shape":"String",
        "documentation":"<p>The domain name of the Active Directory that contains information for the user to
disassociate.</p>"
      },
      "IdentityProvider":{
        "shape":"IdentityProvider",
        "documentation":"<p>An object that specifies details for the Active Directory identity provider.</p>"
      },
      "InstanceId":{
        "shape":"String",
        "documentation":"<p>The ID of the EC2 instance which provides user-based subscriptions.</p>"
      },
      "InstanceUserArn":{
        "shape":"Arn",
        "documentation":"<p>The Amazon Resource Name (ARN) of the user to disassociate from the EC2
instance.</p>"
      },
      "Username":{
        "shape":"String",
        "documentation":"<p>The
 user name from the Active Directory identity provider for the user.</p>"
      }
    }
  },
  "DisassociateUserResponse":{
    "type":"structure",
    "required":["InstanceUserSummary"],
    "members":{
      "InstanceUserSummary":{
        "shape":"InstanceUserSummary",
        "documentation":"<p>Metadata that describes the associate user operation.</p>"
      }
    }
  },
  "DomainNetworkSettings":{
    "type":"structure",
    "required":["Subnets"],
    "members":{
      "Subnets":{
```

"shape":"DomainNetworkSettingsSubnetsList",
"documentation":" Contains a list of subnets that apply for the Active Directory domain. "
}
},
"documentation":" Contains network settings for the Active Directory domain. "
},
"DomainNetworkSettingsSubnetsList":{
"type":"list",
"member":{"shape":"Subnet"},
"min":1
},
"Filter":{
"type":"structure",
"members":{
"Attribute":{
"shape":"String",
"documentation":" The name of an attribute to use as a filter. "
},
"Operation":{
"shape":"String",
"documentation":" The type of search (For example, eq, geq, leq) "
},
"Value":{
"shape":"String",
"documentation":" Value of the filter. "
}
},
"documentation":" A filter name and value pair that is used to return more specific results from a describe or list operation. You can use filters can be used to match a set of resources by specific criteria, such as tags, attributes, or IDs. "
},
"FilterList":{
"type":"list",
"member":{"shape":"Filter"}
},
"IdentityProvider":{
"type":"structure",
"members":{
"ActiveDirectoryIdentityProvider":{
"shape":"ActiveDirectoryIdentityProvider",
"documentation":" The <code>ActiveDirectoryIdentityProvider</code> resource contains settings and other details about a specific Active Directory identity provider. "
}
},
"documentation":" Refers to an identity provider. ",
"union":true
},
"IdentityProviderSummary":{

"type":"structure",
"required":[
"IdentityProvider",
"Product",
"Settings",
"Status"
],
"members":{
"FailureMessage":{
"shape":"String",
"documentation":" The failure message associated with an identity provider. "
},
"IdentityProvider":{
"shape":"IdentityProvider",
"documentation":" The <code>IdentityProvider</code> resource contains information about an identity provider. "
},
"IdentityProviderArn":{
"shape":"Arn",
"documentation":" The Amazon Resource Name (ARN) of the identity provider. "
},
"Product":{
"shape":"String",
"documentation":" The name of the user-based subscription product. "
},
"Settings":{
"shape":"Settings",
"documentation":" The <code>Settings</code> resource contains details about the registered identity providers product related configuration settings, such as the subnets to provision VPC endpoints. "
},
"Status":{
"shape":"String",
"documentation":" The status of the identity provider. "
}
},
"documentation":" Describes an identity provider. "
},
"IdentityProviderSummaryList":{
"type":"list",
"member":{"shape":"IdentityProviderSummary"}
},
"InstanceSummary":{
"type":"structure",
"required":[
"InstanceId",
"Products",
"Status"

```
    ],
    "members":{
      "InstanceId":{
        "shape":"String",
        "documentation":"<p>The ID of the EC2 instance, which provides user-based subscriptions.</p>"
      },
      "LastStatusCheckDate":{

     "shape":"String",
        "documentation":"<p>The date of the last status check.</p>"
      },
      "Products":{
        "shape":"StringList",
        "documentation":"<p>A list of provided user-based subscription products.</p>"
      },
      "Status":{
        "shape":"String",
        "documentation":"<p>The status of an EC2 instance resource.</p>"
      },
      "StatusMessage":{
        "shape":"String",
        "documentation":"<p>The status message for an EC2 instance.</p>"
      }
    },
    "documentation":"<p>Describes an EC2 instance providing user-based subscriptions.</p>"
  },
  "InstanceSummaryList":{
    "type":"list",
    "member":{"shape":"InstanceSummary"}
  },
  "InstanceUserSummary":{
    "type":"structure",
    "required":[
      "IdentityProvider",
      "InstanceId",
      "Status",
      "Username"
    ],
    "members":{
      "AssociationDate":{
        "shape":"String",
        "documentation":"<p>The
date a user was associated with an EC2 instance.</p>"
      },
      "DisassociationDate":{
        "shape":"String",
        "documentation":"<p>The date a user was disassociated from an EC2 instance.</p>"
      },
```

"Domain":{
"shape":"String",
"documentation":" The domain name of the Active Directory that contains the user information for the product subscription. "
},
"IdentityProvider":{
"shape":"IdentityProvider",
"documentation":" The <code>IdentityProvider</code> resource specifies details about the identity provider. "
},
"InstanceId":{
"shape":"String",
"documentation":" The ID of the EC2 instance that provides user-based subscriptions. "
},
"InstanceUserArn":{
"shape":"Arn",
"documentation":" The Amazon Resource Name (ARN) that identifies the instance user. "
},
"Status":{
"shape":"String",
"documentation":" The status of a user associated with an EC2 instance. "
},
"StatusMessage":{
"shape":"String",
"documentation":" The status message for users of an EC2 instance. "
},
"Username":{
"shape":"String",
"documentation":" The user name from the identity provider for the user. "
}
},
"documentation":" Describes users of an EC2 instance providing user-based subscriptions. "
},
"InstanceUserSummaryList":{
"type":"list",
"member":{"shape":"InstanceUserSummary"}
},
"InternalServerException":{
"type":"structure",
"members":{
"message":{"shape":"String"}
},
"documentation":" An exception occurred with the service. ",
"error":{"httpStatusCode":500},
"exception":true,
"fault":true
},
"IpV4":{

"type":"string",
"pattern":"^(?:(25[0-5]|2[0-4][0-9]|1[0-9][0-9]|[1-9][0-9]|[0-9])(\\.(?!$)|$)){4}$"
},
"LicenseServer":{
"type":"structure",
"members":{
"HealthStatus":{
"shape":"LicenseServerHealthStatus",
"documentation":" The health status of the RDS license server. "
},
"Ipv4Address":{
"shape":"String",
"documentation":" A list of domain IPv4 addresses that are used for the RDS license server. "
},
"ProvisioningStatus":{
"shape":"LicenseServerEndpointProvisioningStatus",
"documentation":" The current state of the provisioning process for the RDS license server. "
}
},
"documentation":" Information about a Remote Desktop Services (RDS) license server. "
},
"LicenseServerEndpoint":{
"type":"structure",
"members":{
"CreationTime":{
"shape":"Timestamp",
"documentation":" The timestamp when License Manager created the license server
endpoint. "
},
"IdentityProviderArn":{
"shape":"String",
"documentation":" The Amazon Resource Name (ARN) of the identity provider that's associated with the
RDS license server endpoint. "
},
"LicenseServerEndpointArn":{
"shape":"Arn",
"documentation":" The ARN of the <code>ServerEndpoint</code> resource for the RDS license
server. "
},
"LicenseServerEndpointId":{
"shape":"LicenseServerEndpointId",
"documentation":" The ID of the license server endpoint. "
},
"LicenseServerEndpointProvisioningStatus":{
"shape":"LicenseServerEndpointProvisioningStatus",
"documentation":" The current state of the provisioning process for the RDS license server endpoint "
},
"LicenseServers":{

"shape":"LicenseServerList",
"documentation":" An array of <code>LicenseServer</code> resources that represent the license servers that are accessed through this endpoint. "
},
"ServerEndpoint":{
"shape":"ServerEndpoint",
"documentation":" The <code>ServerEndpoint</code> resource contains the network address of the RDS license server endpoint. "
},
"ServerType":{
"shape":"ServerType",
"documentation":" The type of license server. "
},
"StatusMessage":{
"shape":"String",
"documentation":" The message associated with the provisioning status, if there is one. "
}
},
"documentation":" Contains details about a network endpoint for a Remote Desktop Services (RDS) license server. "
},
"LicenseServerEndpointId":{"type":"string"},
"LicenseServerEndpointList":{
"type":"list",
"member":{"shape":"LicenseServerEndpoint"}
},
"LicenseServerEndpointProvisioningStatus":{
"type":"string",
"enum":[
"PROVISIONING",
"PROVISIONING_FAILED",
"PROVISIONED",
"DELETING",
"DELETION_FAILED",
"DELETED"
]
},
"LicenseServerHealthStatus":{
"type":"string",
"enum":[
"HEALTHY",
"UNHEALTHY",
"NOT_APPLICABLE"
]
},
"LicenseServerList":{
"type":"list",
"member":{"shape":"LicenseServer"}

```
  },
  "LicenseServerSettings":{
    "type":"structure",
    "required":[
      "ServerSettings",
      "ServerType"
    ],
    "members":{
      "ServerSettings":{
        "shape":"ServerSettings",
        "documentation":"<p>The <code>ServerSettings</code> resource contains the settings for your server.</p>"
      },
      "ServerType":{
        "shape":"ServerType",
        "documentation":"<p>The type of license server.</p>"
      }
    },
    "documentation":"<p>The settings to configure your license server.</p>"
  },
  "ListIdentityProvidersRequest":{
    "type":"structure",
     "members":{
      "Filters":{
        "shape":"FilterList",
        "documentation":"<p>You can use the following filters to streamline results:</p> <ul> <li> <p>Product</p>
</li> <li> <p>DirectoryId</p> </li> </ul>"
      },
      "MaxResults":{
        "shape":"BoxInteger",
        "documentation":"<p>The maximum number of results to return from a single request.</p>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>A token to specify where to start paginating. This is the nextToken from a previously
truncated response.</p>"
      }
    }
  },
  "ListIdentityProvidersResponse":{
    "type":"structure",
    "required":["IdentityProviderSummaries"],
    "members":{
      "IdentityProviderSummaries":{
        "shape":"IdentityProviderSummaryList",
        "documentation":"<p>An array of <code>IdentityProviderSummary</code> resources that contain details
about the Active Directory identity providers that
 meet the request criteria.</p>"
      },
```

"NextToken":{
"shape":"String",
"documentation":" The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects. "
}
}
},
"ListInstancesRequest":{
"type":"structure",
"members":{
"Filters":{
"shape":"FilterList",
"documentation":" You can use the following filters to streamline results: <ul> Status   InstanceId "
},
"MaxResults":{
"shape":"BoxInteger",
"documentation":" The maximum number of results to return from a single request. "
},
"NextToken":{
"shape":"String",
"documentation":" A token to specify where to start paginating. This is the nextToken from a previously truncated response. "
}
}
},
"ListInstancesResponse":{
"type":"structure",
"members":{
"InstanceSummaries":{
"shape":"InstanceSummaryList",
"documentation":" An array of <code>InstanceSummary</code> resources that contain details about the instances that provide user-based subscriptions and also meet the request criteria. "
},
"NextToken":{
"shape":"String",
"documentation":" The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects. "
}
}
},
"ListLicenseServerEndpointsRequest":{
"type":"structure",
"members":{
"Filters":{
"shape":"FilterList",

"documentation":" You can use the following filters to streamline results: <ul> IdentityProviderArn
 "
},
"MaxResults":{
"shape":"ListLicenseServerEndpointsRequestMaxResultsInteger",
"documentation":" The maximum number of results to return from a single request. "
},
"NextToken":{
"shape":"String",
"documentation":" A token to specify where to start paginating. This is the nextToken from a previously truncated response. "
}
}
},
"ListLicenseServerEndpointsRequestMaxResultsInteger":{
"type":"integer",
"box":true,
"max":100,
"min":1
},
"ListLicenseServerEndpointsResponse":{
"type":"structure",
"members":{
"LicenseServerEndpoints":{
"shape":"LicenseServerEndpointList",
"documentation":" An array of <code>LicenseServerEndpoint</code> resources that contain detailed information about the RDS License Servers that meet the request criteria. "
},
"NextToken":{
"shape":"String",
"documentation":" The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects. "
}
}
},
"ListProductSubscriptionsRequest":{
"type":"structure",
"required":["IdentityProvider"],
"members":{
"Filters":{
"shape":"FilterList",
"documentation":" You can use the following filters to streamline results: <ul> Status   Username   Domain "
},
"IdentityProvider":{
"shape":"IdentityProvider",

"documentation":" An object that specifies details for the identity provider. "
},
"MaxResults":{
"shape":"BoxInteger",
"documentation":" The maximum number of results to return from a single request. "
},

"NextToken":{
"shape":"String",
"documentation":" A token to specify where to start paginating. This is the nextToken from a previously truncated response. "
},
"Product":{
"shape":"String",
"documentation":" The name of the user-based subscription product. Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> "
}
}
},
"ListProductSubscriptionsResponse":{
"type":"structure",
"members":{
"NextToken":{
"shape":"String",
"documentation":" The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects. "
},
"ProductUserSummaries":{
"shape":"ProductUserSummaryList",
"documentation":" Metadata that describes the list product subscriptions operation. "
}
}
},
"ListTagsForResourceRequest":{
"type":"structure",
"required":["ResourceArn"],
"members":{
"ResourceArn":{
"shape":"ResourceArn",
"documentation":" The Amazon Resource Name (ARN) of the resource whose tags you want to retrieve. ",
"location":"uri",
"locationName":"ResourceArn"
}
}

```
  },
  "ListTagsForResourceResponse":{
    "type":"structure",
    "members":{
      "Tags":{
        "shape":"Tags",
        "documentation":"<p>The tags for the specified resource.</p>"
      }
    }
  },
  "ListUserAssociationsRequest":{
    "type":"structure",
    "required":[
      "IdentityProvider",
      "InstanceId"
    ],
    "members":{
      "Filters":{
        "shape":"FilterList",
        "documentation":"<p>You can use the following filters to streamline results:</p>
<ul> <li> <p>Status</p> </li> <li> <p>Username</p> </li> <li> <p>Domain</p> </li> </ul>"
      },
      "IdentityProvider":{
        "shape":"IdentityProvider",
        "documentation":"<p>An object that specifies details for the identity provider.</p>"
      },
      "InstanceId":{
        "shape":"String",
        "documentation":"<p>The ID of the EC2 instance, which provides user-based subscriptions.</p>"
      },
      "MaxResults":{
        "shape":"BoxInteger",
        "documentation":"<p>The maximum number of results to return from a single request.</p>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>A token to specify where to start paginating. This is the nextToken from a previously
truncated response.</p>"
      }
    }
  },
  "ListUserAssociationsResponse":{
    "type":"structure",
    "members":{
      "InstanceUserSummaries":{
        "shape":"InstanceUserSummaryList",
        "documentation":"<p>Metadata
```

that describes the list user association operation. "
},
"NextToken":{
"shape":"String",
"documentation":" The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects. "
}
}
},
"ProductUserSummary":{
"type":"structure",
"required":[
"IdentityProvider",
"Product",
"Status",
"Username"
],
"members":{
"Domain":{
"shape":"String",
"documentation":" The domain name of the Active Directory that contains the user information for the product subscription. "
},
"IdentityProvider":{
"shape":"IdentityProvider",
"documentation":" An object that specifies details for the identity provider. "
},
"Product":{

"shape":"String",
"documentation":" The name of the user-based subscription product. "
},
"ProductUserArn":{
"shape":"Arn",
"documentation":" The Amazon Resource Name (ARN) for this product user. "
},
"Status":{
"shape":"String",
"documentation":" The status of a product for this user. "
},
"StatusMessage":{
"shape":"String",
"documentation":" The status message for a product for this user. "
},
"SubscriptionEndDate":{
"shape":"String",
"documentation":" The end date of a subscription. "

```
      },
      "SubscriptionStartDate":{
        "shape":"String",
        "documentation":"<p>The start date of a subscription.</p>"
      },
      "Username":{
        "shape":"String",
        "documentation":"<p>The user name from the identity provider for this product user.</p>"
      }
    },

  "documentation":"<p>A summary of the user-based subscription products for a specific user.</p>"
  },
  "ProductUserSummaryList":{
    "type":"list",
    "member":{"shape":"ProductUserSummary"}
  },
  "RdsSalSettings":{
    "type":"structure",
    "required":["RdsSalCredentialsProvider"],
    "members":{
      "RdsSalCredentialsProvider":{
        "shape":"CredentialsProvider",
        "documentation":"<p>The <code>CredentialsProvider</code> resource contains a reference to the credentials
provider that's used for RDS license server user administration.</p>"
      }
    },
    "documentation":"<p>Server settings that are specific to a Remote Desktop Services (RDS) license server.</p>"
  },
  "RegisterIdentityProviderRequest":{
    "type":"structure",
    "required":[
      "IdentityProvider",
      "Product"
    ],
    "members":{
      "IdentityProvider":{
        "shape":"IdentityProvider",
        "documentation":"<p>An object that
 specifies details for the identity provider to register.</p>"
      },
      "Product":{
        "shape":"String",
        "documentation":"<p>The name of the user-based subscription product.</p> <p>Valid values:
<code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> |
<code>OFFICE_PROFESSIONAL_PLUS</code> </p>"
      },
      "Settings":{
```

"shape":"Settings",
"documentation":" The registered identity providers product related configuration settings such as the subnets to provision VPC endpoints. "
},
"Tags":{
"shape":"Tags",
"documentation":" The tags that apply to the identity provider's registration. "
}
}
},
"RegisterIdentityProviderResponse":{
"type":"structure",
"required":["IdentityProviderSummary"],
"members":{
"IdentityProviderSummary":{
"shape":"IdentityProviderSummary",
"documentation":" Metadata that describes the results of an identity provider operation. "
}
}
},
"ResourceArn":{
"type":"string",
"pattern":"^arn:([a-z0-9-\\.]{1,63}):([a-z0-9-\\.]{1,63}):([a-z0-9-\\.]{1,63}):([a-z0-9-\\.]{1,63}):([a-z0-9-\\.]{1,510})/([a-z0-9-\\.]{1,510})$"
},
"ResourceNotFoundException":{
"type":"structure",
"members":{
"message":{"shape":"String"}
},
"documentation":" The resource couldn't be found. ",
"error":{
"httpStatusCode":404,
"senderFault":true
},
"exception":true
},
"SecretsManagerCredentialsProvider":{
"type":"structure",
"members":{
"SecretId":{
"shape":"SecretsManagerCredentialsProviderSecretIdString",
"documentation":" The ID of the Secrets Manager secret that contains credentials. "
}
},
"documentation":" Contains a credentials secret that's stored in Secrets Manager. "
},

"SecretsManagerCredentialsProviderSecretIdString":{
"type":"string",
"min":1
},
"SecurityGroup":{
"type":"string",
"max":200,
"min":5,
"pattern":"^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
},
"ServerEndpoint":{
"type":"structure",
"members":{
"Endpoint":{
"shape":"String",
"documentation":" The network address of the endpoint. "
}
},
"documentation":" A network endpoint through which you can access one or more servers. "
},
"ServerSettings":{
"type":"structure",
"members":{
"RdsSalSettings":{
"shape":"RdsSalSettings",
"documentation":" The <code>RdsSalSettings</code> resource contains settings to configure a specific Remote Desktop Services (RDS) license server. "
}
},
"documentation":" Contains settings for a specific server. ",
"union":true
},
"ServerType":{
"type":"string",
"enum":["RDS_SAL"]
},
"ServiceQuotaExceededException":{
"type":"structure",
"members":{
"message":{"shape":"String"}
},
"documentation":" The request failed because a service quota is exceeded. ",
"exception":true
},
"Settings":{
"type":"structure",
"required":[
"SecurityGroupId",

"Subnets"
],
"members":{
"SecurityGroupId":{
"shape":"SecurityGroup",
"documentation":" A security group ID that allows inbound TCP port 1688 communication between resources in your VPC and the VPC endpoint for activation servers. "
},
"Subnets":{
"shape":"SettingsSubnetsList",
"documentation":" The subnets defined for the registered identity provider. "
}
},
"documentation":" The registered identity providers product related configuration settings such as the subnets to provision VPC endpoints, and the security group ID that
is associated with the VPC endpoints. The security group should permit inbound TCP port 1688 communication from resources in the VPC. "
},
"SettingsSubnetsList":{
"type":"list",
"member":{"shape":"Subnet"},
"min":1
},
"StartProductSubscriptionRequest":{
"type":"structure",
"required":[
"IdentityProvider",
"Product",
"Username"
],
"members":{
"Domain":{
"shape":"String",
"documentation":" The domain name of the Active Directory that contains the user for whom to start the product subscription. "
},
"IdentityProvider":{
"shape":"IdentityProvider",
"documentation":" An object that specifies details for the identity provider. "
},
"Product":{
"shape":"String",
"documentation":" The name of the user-based subscription product. Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> "
},
"Tags":{
"shape":"Tags",

"documentation":" The tags that apply to the product subscription. "
},
"Username":{
"shape":"String",
"documentation":" The user name from the identity provider of the user. "
}
}
},
"StartProductSubscriptionResponse":{
"type":"structure",
"required":["ProductUserSummary"],
"members":{
"ProductUserSummary":{
"shape":"ProductUserSummary",
"documentation":" Metadata that describes the start product subscription operation. "
}
}
},
"StopProductSubscriptionRequest":{
"type":"structure",
"members":{
"Domain":{
"shape":"String",
"documentation":" The domain name of the Active Directory that contains the user for whom to stop the product subscription. "
},

"IdentityProvider":{
"shape":"IdentityProvider",
"documentation":" An object that specifies details for the identity provider. "
},
"Product":{
"shape":"String",
"documentation":" The name of the user-based subscription product. Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> "
},
"ProductUserArn":{
"shape":"Arn",
"documentation":" The Amazon Resource Name (ARN) of the product user. "
},
"Username":{
"shape":"String",
"documentation":" The user name from the identity provider for the user. "
}
}
},
"StopProductSubscriptionResponse":{

"type":"structure",
"required":["ProductUserSummary"],
"members":{
"ProductUserSummary":{
"shape":"ProductUserSummary",
"documentation":" Metadata
that describes the start product subscription operation. "
}
}
},
"String":{"type":"string"},
"StringList":{
"type":"list",
"member":{"shape":"String"}
},
"Subnet":{
"type":"string",
"pattern":"^subnet-[a-z0-9]{8,17}"
},
"Subnets":{
"type":"list",
"member":{"shape":"Subnet"}
},
"TagKeyList":{
"type":"list",
"member":{"shape":"String"},
"max":50,
"min":0,
"sensitive":true
},
"TagResourceRequest":{
"type":"structure",
"required":[
"ResourceArn",
"Tags"
],
"members":{
"ResourceArn":{
"shape":"ResourceArn",
"documentation":" The Amazon Resource Name (ARN) of the resource that you want to tag. ",
"location":"uri",
"locationName":"ResourceArn"
},
"Tags":{
"shape":"Tags",
"documentation":" The tags to apply to the specified resource. "
}
}

```
  },
  "TagResourceResponse":{
    "type":"structure",
    "members":{
    }
  },
  "Tags":{
    "type":"map",
    "key":{"shape":"String"},
    "value":{"shape":"String"},
    "max":50,
    "min":0,
    "sensitive":true
  },
  "ThrottlingException":{
    "type":"structure",
    "members":{
      "message":{"shape":"String"}
    },
    "documentation":"<p>The request was denied because of request throttling. Retry the request.</p>",
    "exception":true
  },
  "Timestamp":{"type":"timestamp"},
  "UntagResourceRequest":{
    "type":"structure",
    "required":[
      "ResourceArn",
      "TagKeys"
    ],
    "members":{
      "ResourceArn":{
        "shape":"ResourceArn",
        "documentation":"<p>The Amazon Resource Name (ARN) of the resource that you want to remove tags
from.</p>",
        "location":"uri",
        "locationName":"ResourceArn"
      },
      "TagKeys":{
        "shape":"TagKeyList",
         "documentation":"<p>The tag keys to remove from the resource.</p>",
        "location":"querystring",
        "locationName":"tagKeys"
      }
    }
  },
  "UntagResourceResponse":{
    "type":"structure",
    "members":{
```

```
    }
  },
  "UpdateIdentityProviderSettingsRequest":{
    "type":"structure",
    "required":["UpdateSettings"],
    "members":{
      "IdentityProvider":{"shape":"IdentityProvider"},
      "IdentityProviderArn":{
        "shape":"Arn",
        "documentation":"<p>The Amazon Resource Name (ARN) of the identity provider to update.</p>"
      },
      "Product":{
        "shape":"String",
        "documentation":"<p>The name of the user-based subscription product.</p> <p>Valid values:
<code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> |
<code>OFFICE_PROFESSIONAL_PLUS</code> </p>"
      },
      "UpdateSettings":{
        "shape":"UpdateSettings",
        "documentation":"<p>Updates
 the registered identity providers product related configuration settings. You can update any combination of settings
in a single operation such as the:</p> <ul> <li> <p>Subnets which you want to add to provision VPC
endpoints.</p> </li> <li> <p>Subnets which you want to remove the VPC endpoints from.</p> </li> <li>
<p>Security group ID which permits traffic to the VPC endpoints.</p> </li> </ul>"
      }
    }
  },
  "UpdateIdentityProviderSettingsResponse":{
    "type":"structure",
    "required":["IdentityProviderSummary"],
    "members":{
      "IdentityProviderSummary":{"shape":"IdentityProviderSummary"}
    }
  },
  "UpdateSettings":{
    "type":"structure",
    "required":[
      "AddSubnets",
      "RemoveSubnets"
    ],
    "members":{
      "AddSubnets":{
        "shape":"Subnets",
        "documentation":"<p>The ID of one or more subnets in which License Manager will create a VPC endpoint
for products that require connectivity
 to activation servers.</p>"
      },
      "RemoveSubnets":{
```

"shape":"Subnets",
"documentation":" The ID of one or more subnets to remove. "
},
"SecurityGroupId":{
"shape":"SecurityGroup",
"documentation":" A security group ID that allows inbound TCP port 1688 communication between resources in your VPC and the VPC endpoints for activation servers. "
}
},
"documentation":" Updates the registered identity providers product related configuration settings such as the subnets to provision VPC endpoints. "
},
"ValidationException":{
"type":"structure",
"members":{
"message":{"shape":"String"}
},
"documentation":" A parameter is not valid. ",
"exception":true
}
},
"documentation":" With License Manager, you can create user-based subscriptions to utilize licensed software with a per user subscription fee on Amazon EC2 instances. "
}

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{
  "version": "1.0",
  "parameters": {
    "Region": {
      "builtIn": "AWS::Region",
      "required": false,
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"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
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"Endpoint": {

"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}
},
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{
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{
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"argv": [
{
"ref": "Endpoint"
}
]
}
],
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"rules": [
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseFIPS"

```
                    },
                    true
                ]
            }
        ],
        "error": "Invalid Configuration: FIPS and custom
endpoint are not supported",
        "type": "error"
    },
    {
        "conditions": [
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                "fn": "booleanEquals",
                "argv": [
                    {
                        "ref": "UseDualStack"
                    },
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                ]
            }
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        "type": "error"
    },
    {
        "conditions": [],
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            },
            "properties": {},
            "headers": {}
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        "type": "endpoint"

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        "argv": [
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                "ref": "Region"
            }
        ]
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```

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        "rules": [
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            "conditions": [
              {
                "fn": "aws.partition",
                "argv": [
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                  }
                ],
                "assign": "PartitionResult"
              }
            ],
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            "rules": [
              {
                "conditions": [
                  {
                    "fn":
"booleanEquals",
                    "argv": [
                      {
                        "ref": "UseFIPS"
                      },
                      true
                    ]
                  },
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      {
                        "ref": "UseDualStack"
                      },
                      true
                    ]
                  }
                ],
                "type": "tree",
                "rules": [
                  {
                    "conditions": [
                      {

            "fn": "booleanEquals",
                        "argv": [
                          true,
```

```
                    {
                      "fn": "getAttr",
                      "argv": [
                        {
                          "ref": "PartitionResult"
                        },
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                      ]
                    }
                  ]
                },
                {
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                  "argv": [

true,
                    {
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                      "argv": [
                        {
                          "ref": "PartitionResult"
                        },
                        "supportsDualStack"
                      ]
                    }
                  ]
                }
              ],
              "type": "tree",
              "rules": [
                {
                  "conditions": [],
                  "endpoint": {

    "url": "https://license-manager-fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                    "properties": {},
                    "headers": {}
                  },
                  "type": "endpoint"
                }
              ]
            },
            {
              "conditions": [],
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              "type": "error"
            }
          ]
```

```
            },
            {
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                    },
                    true
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                }
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                      "argv": [
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                        {
                          "fn": "getAttr",
                          "argv": [
                            {

"ref": "PartitionResult"
                            },
                            "supportsFIPS"
                          ]
                        }
                      ]
                    }
                  ],
                  "type": "tree",
                  "rules": [
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                        "properties": {},
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                      },
                      "type": "endpoint"
                    }
                  ]
                },
```

```
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                        "conditions": [],
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                        "type": "error"
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                ]
            },
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                        "fn": "booleanEquals",
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                            {
                                "ref": "UseDualStack"
                            },
                            true
                        ]
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                ],
                "type":
"tree",
                "rules": [
                    {
                        "conditions": [
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    true,
                                    {
                                        "fn": "getAttr",
                                        "argv": [
                                            {
                                                "ref": "PartitionResult"
                                            },
                                            "supportsDualStack"
                                        ]
                                    }
                                ]

  }
                        ],
                        "type": "tree",
                        "rules": [
                            {
                                "conditions": [],
                                "endpoint": {
                                    "url": "https://license-manager.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                    "properties": {},
```

```
                "headers": {}
              },
              "type": "endpoint"
            }
          ]
        },
        {
          "conditions": [],
          "error": "DualStack is enabled but this partition does not support DualStack",

      "type": "error"
        }
      ]
    },
    {
      "conditions": [],
      "endpoint": {
        "url": "https://license-manager.{Region}.{PartitionResult#dnsSuffix}",
        "properties": {},
        "headers": {}
      },
      "type": "endpoint"
    }
  ]
}
]
},
{
  "conditions": [],
  "error": "Invalid Configuration: Missing Region",
  "type": "error"
}
]
}
{
  "ResponseMetadata": {
    "RequestId": "6a213e4e-33a8-11df-9540-99d0768312d3"
  }
}
{
  "version": "1.0",
  "parameters": {
    "Region": {
      "builtIn": "AWS::Region",
      "required": false,
      "documentation": "The AWS region used to dispatch the request.",
      "type": "String"
    },
```

"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
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"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {

"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}
},
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{
"conditions": [
{
"fn": "isSet",
"argv": [
{
"ref": "Endpoint"
}
]
}
],
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{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseFIPS"
},
true
]
}

```
            ],
            "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
            "type": "error"
        },
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                    "fn": "booleanEquals",
                    "argv": [
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                            "ref": "UseDualStack"
                        },
                        true
                    ]
                }
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            "type": "error"
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        {
            "conditions": [],
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                "url": {
                    "ref": "Endpoint"
                },
                "properties": {},
                "headers": {}
            },
            "type": "endpoint"
        }
    ],
    "type": "tree"
},
{
    "conditions": [
        {
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            "argv": [
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                    "ref": "Region"
                }
            ]
        }
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            "conditions": [
                {
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        "fn": "aws.partition",
        "argv": [
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            "ref": "Region"
          }
        ],
        "assign": "PartitionResult"
      }
    ],
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      {
        "conditions": [
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                "ref": "UseFIPS"
              },
              true
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            "argv": [
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                "ref": "UseDualStack"
              },
              true
            ]
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            "conditions": [
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                "fn": "booleanEquals",
                "argv": [

              true,
                  {
                    "fn": "getAttr",
                    "argv": [
                      {
                        "ref": "PartitionResult"
                      },
                      "supportsFIPS"
                    ]
                  }
```

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                    ]
                },
                {
                    "fn": "booleanEquals",
                    "argv": [
                        true,
                        {

        "fn": "getAttr",
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                                {
                                    "ref": "PartitionResult"
                                },
                                "supportsDualStack"
                            ]
                        }
                    ]
                }
            ],
            "rules": [
                {
                    "conditions": [],
                    "endpoint": {
                        "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",

      "properties": {},
                        "headers": {}
                    },
                    "type": "endpoint"
                }
            ],
            "type": "tree"
        },
        {
            "conditions": [],
            "error": "FIPS and DualStack are enabled, but this partition does not support one or both",
            "type": "error"
        }
    ],
    "type": "tree"
},
{
    "conditions": [
        {
            "fn": "booleanEquals",
            "argv": [
```

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{
                    "ref": "UseFIPS"
                },
                true
            ]
        }
    ],
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        {
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                {
                    "fn": "booleanEquals",
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                        {
                            "fn": "getAttr",
                            "argv": [
                                {
                                    "ref": "PartitionResult"
                                },
                                "supportsFIPS"
                            ]
                        },
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                    ]
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                }
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            "type": "error"
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                    },
                    true
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                }
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                            },
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                          ]
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                      ]
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subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
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                  "type": "tree"
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```

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                  "type": "error"

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              "type": "tree"
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            }
          ],
          "type": "tree"
        }
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      "type": "error"
    }
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}
{
  "testCases": [
    {
      "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
        }
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      "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": true
      }
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    {
      "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
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"UseDualStack": false
}
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"UseDualStack": true
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{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
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},
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    {
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        "Region": "cn-north-1",
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        }
```

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        "UseDualStack": true
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},
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        "UseDualStack": false
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```

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        "UseDualStack": true
    }
},
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        }
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    "params": {
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        "UseFIPS": true,
        "UseDualStack": false
    }
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    "expect": {
        "error": "DualStack is enabled but this partition does not support DualStack"
    },
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        "Region": "us-iso-east-1",
        "UseFIPS": false,
        "UseDualStack": true
    }
},
{
    "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
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        }
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        "UseFIPS": false,
        "UseDualStack": false
    }
},
{
    "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
```

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    },
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      "UseDualStack": true
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      }
    },
    "params": {
      "Region": "us-isob-east-1",
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      "UseDualStack": false
    }
  },
  {
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    "expect": {
      "error": "DualStack is enabled but this partition does not support DualStack"
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      "UseDualStack": true
    }
  },
  {
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      }
    },
    "params": {
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  },
  {
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"expect": {
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},
"params": {
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        "expect": {
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        }
    }
  ],
  "version": "1.0"
}
```


1.5578 aws-c-s3 0.7.4-r0

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1.5579 py3-cryptography 44.0.0-r0

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1.5580 py3-cffi 1.17.1-r1

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1.5587 lombok 1.18.36

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* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/eclipse/agent/PatchDelegate.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/eclipse/handlers/HandleConstructor.java
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* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/javac/handlers/HandleData.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/eclipse/handlers/HandleCleanup.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-

jar/lombok/eclipse/handlers/HandleEqualsAndHashCode.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/transform/TestWithEcj.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/installer/eclipse/STSLocationProvider.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/eclipse/handlers/HandleData.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/javac/handlers/HandleToString.java
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* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/transform/TestLombokFilesIdempotent.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/javac/handlers/HandlePrintAST.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/transform/TestWithDelombok.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/delombok/DelombokApp.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/core/AST.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/javac/JavacNode.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/eclipse/EclipseNode.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/javac/handlers/HandleEqualsAndHashCode.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/core/handlers/SneakyThrowsAndCleanupDependencyInfo.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/eclipse/EclipseAST.java
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* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/core/Main.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/installer/Installer.java
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  * Can also inject constructors.
  *
  * Also takes care of updating the JavacAST.
  *
  * Ordinarily the 'source' is determined automatically. In rare cases generally involving combinations between
  * annotations, some of which require re-attribution such as {@code @Delegate}, that doesn't work. This method
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  */
```

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* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/javac/handlers/singulars/JavacJavaUtilSingularizer.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/javac/handlers/singulars/JavacJavaUtilListSetSingularizer.java
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* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/javac/handlers/singulars/JavacJavaUtilMapSingularizer.java

* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/eclipse/handlers/singulars/EclipseJavaUtilSetSingularizer.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/eclipse/handlers/singulars/EclipseJavaUtilListSetSingularizer.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/eclipse/handlers/singulars/EclipseJavaUtilMapSingularizer.java
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/opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/eclipse/handlers/HandleHelper.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/eclipse/handlers/EclipseSingularsRecipes.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/eclipse/handlers/singulars/EclipseGuavaMapSingularizer.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/eclipse/handlers/singulars/EclipseGuavaSetListSingularizer.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/eclipse/handlers/HandleUtilityClass.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/eclipse/handlers/singulars/EclipseJavaUtilListSingularizer.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/javac/handlers/HandleHelper.java
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* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/javac/handlers/singulars/JavacJavaUtilListSingularizer.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/eclipse/handlers/singulars/EclipseGuavaTableSingularizer.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/javac/handlers/JavacSingularsRecipes.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/eclipse/handlers/singulars/EclipseGuavaSingularizer.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/javac/handlers/singulars/JavacJavaUtilSetSingularizer.java
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* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/javac/PackageName.java
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* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/javac/apt/Javac6BaseFileObjectWrapper.java
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* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-

jar/lombok/core/PublicApiCreatorApp.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/javac/handlers/HandleFieldDefaults.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/bytecode/PoolConstantsApp.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/javac/handlers/HandleExtensionMethod.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/eclipse/agent/PatchDelegatePortal.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/eclipse/handlers/HandleFieldDefaults.java
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* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/core/ClassLiteral.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/extern/flogger/Flogger.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/core/AlreadyHandledAnnotations.java
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* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/bytecode/SneakyThrowsRemover.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/javac/handlers/HandleDelegate.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/javac/TreeMirrorMaker.java
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* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/javac/handlers/HandleVal.java
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* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/RunTestsViaDelombok.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/javac/handlers/HandleGetter.java
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* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/eclipse/handlers/HandleSetter.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/javac/handlers/HandleSetter.java
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 /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/eclipse/handlers/EclipseHandlerUtil.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/eclipse/agent/EclipsePatcher.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/DirectoryRunner.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/core/AnnotationValues.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/eclipse/handlers/HandleSynchronized.java
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* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/core/Version.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/javac/Javac.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/eclipse/handlers/HandleSneakyThrows.java
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* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/core/PostCompiler.java
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* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/javac/java9/CommentCollectingParserFactory.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/extern/log4j/Log4j2.java
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* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/javac/java6/CommentCollectingScannerFactory.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/javac/java7/CommentCollectingScanner.java
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* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/core/package-info.java
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* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/installer/package-info.java
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* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/core/configuration/ConfigurationApp.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/core/configuration/FlagUsageType.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/javac/JavacAugments.java
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* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/AllArgsConstructor.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/extern/java/Log.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/experimental/var.java

* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/val.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/extern/log4j/Log4j.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/Delegate.java
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info.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/core/debug/DebugSnapshotStore.java
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* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/experimental/ExtensionMethod.java
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* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-

jar/lombok/delombok/LombokOptionsFactory.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/delombok/FormatPreferenceScanner.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/core/configuration/ConfigurationResolver.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/javac/Javac6BasedLombokOptions.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/core/configuration/ConfigurationValueParser.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/core/LombokImmutableList.java
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* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/installer/IdeLocationProvider.java
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* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/core/runtimeDependencies/package-info.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/core/AgentLauncher.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/javac/package-info.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/javac/handlers/package-info.java
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* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/javac/java8/CommentCollectingTokenizer.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/eclipse/handlers/HandleNonNull.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/installer/eclipse/JbdsLocationProvider.java
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* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/javac/handlers/HandleLockedUtil.java
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* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/javac/apt/LombokProcessor.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/core/handlers/InclusionExclusionUtils.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/core/TypeResolver.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/EqualsAndHashCode.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/javac/JavacAST.java
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* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/launch/ShadowClassLoader.java
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* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/core/configuration/ExampleValueString.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/launch/Agent.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/core/FieldAugment.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/core/Augments.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/core/configuration/ConfigurationKeysLoader.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/core/debug/ProblemReporter.java
*
 /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/core/configuration/ConfigurationProblemReporter.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/experimental/Tolerate.java
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* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/eclipse/EclipseAnnotationHandler.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/core/PrintAST.java
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* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/core/configuration/BubblingConfigurationResolver.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/core/configuration/ConfigurationSource.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/core/configuration/FileSystemSourceCache.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/core/configuration/SingleConfigurationSource.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/core/configuration/ConfigurationParser.java

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* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/javac/apt/MessagerDiagnosticsReceiver.java
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* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-

jar/lombok/javac/handlers/HandleAccessors.java
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* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/eclipse/agent/ExtensionMethodCompletionProposal.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/experimental/PackagePrivate.java
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* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/experimental/NonFinal.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/eclipse/DeferUntilPostDiet.java
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jar/lombok/core/configuration/ConfigurationValueType.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/core/CleanupTask.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/core/configuration/IdentifierName.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/core/handlers/LoggingFramework.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/CustomLog.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/core/CleanupRegistry.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/core/configuration/LogDeclaration.java
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* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/delombok/ant/DelombokTask.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/eclipse/HandlerLibrary.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/javac/HandlerLibrary.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/core/AnnotationProcessor.java

* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/ToString.java
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* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/core/LombokConfiguration.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/Builder.java
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* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/javac/CompilerMessageSuppressor.java
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* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/core/TypeLibrary.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/NonNull.java
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/opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/delombok/DelombokResult.java
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 /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/eclipse/handlers/singulars/EclipseJavaUtilSingularizer.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/eclipse/agent/PatchFixesShadowLoaded.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/core/handlers/Singulars.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/eclipse/agent/EclipseLoaderPatcher.java
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* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/eclipse/agent/PatchDiagnostics.java
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* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/installer/eclipse/RhcrLocationProvider.java
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* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/experimental/WithBy.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/core/configuration/ConfigurationFile.java
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* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/installer/eclipse/EclipseProductLocation.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/Cleanup.java
* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/Lombok.java
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* /opt/cola/permits/2294893810_1733867327.2614412/0/lombok-1-18-36-sources-jar/lombok/package-info.java
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1.5595 shadow 4.16.0-r1

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pkgname=bsd-compat-headers
pkgver=0.7.2
pkgrel=6
pkgdesc="BSD compatibility headers (cdefs, queue, tree)"
url="https://gitlab.alpinelinux.org/alpine/aports"
arch="noarch"
license="BSD-2-Clause AND BSD-3-Clause"
source="
 cdefs.h
 queue.h
 tree.h
"
builddir="$srcdir"
options="!check" # just headers

package() {
 mkdir -p "$pkgdir"
 install -Dm644 -t "$pkgdir"/usr/include/sys \
  cdefs.h queue.h tree.h
}
sha512sums="
37c8fc73c7aea7b490f7850927e2bb91d12137c9e59e22c084146d515696dbc7973b5de92f4c987ba080dd2502ba8312
```

```
7006442c3f019b6447a620c0cae73178  cdefs.h
2f0d5e6e4dc3350285cf17009265dddcbe12431c111868eea39bc8cb038ab7c1f2acacbb21735c4e9d4a1fd106a8fc0f86
11ea33987d4faba37dde5ce6da0750  queue.h
d9ac210d81feb8ad2655bc80fb065d3fe20ae4417b32b4a1711e6738a4870140005c13373b5d1846ef3ce5ae6da45f2da
cef2092881eded0a2e94f6a07752ef3  tree.h
"
# Automatically generated by apkbuild-cpan, template 4
# Contributor: Valery Kartel <valery.kartel@gmail.com>
# Maintainer: Celeste <cielesti@protonmail.com>
maintainer="Celeste <cielesti@protonmail.com>"
pkgname=perl-bsd-resource
pkgver=1.2911
pkgrel=10
#_pkgreal is used by apkbuild-cpan to find modules at MetaCpan
_pkgreal=BSD-Resource
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="https://metacpan.org/release/BSD-Resource/"
arch="all"
license="Artistic-2.0 OR LGPL-2.0"
depends="perl"
makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/J/JH/JHI/BSD-Resource-$pkgver.tar.gz"
builddir="$srcdir/$_pkgreal-$pkgver"

build() {
 export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
 PERL_MM_USE_DEFAULT=1 perl -I. Makefile.PL \
  INSTALLDIRS=vendor \
  NO_PACKLIST=1 \
  NO_PERLLOCAL=1
 make
}

check() {
 export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
 make test
}

package() {
 make DESTDIR="$pkgdir" install
}

sha512sums="
d0032d41c7c0468ed1c6d8f57b885f6cb97a5039d754c8cb60b2067daedaf53bd15fb6561a3d0f828df16dfa5417f663b
8065ba65f4fea16dc9262728b3b6b85
  BSD-Resource-1.2911.tar.gz
"
```

```
# Contributor: Fabian Affolter <fabian@affolter-engineering.ch>
# Maintainer: Fabian Affolter <fabian@affolter-engineering.ch>
pkgname=py3-flake8-copyright
_pkgname=flake8-copyright
pkgver=0.2.4
pkgrel=3
pkgdesc="Extension for flake8 which checks for copyrights"
options="!check" # No testsuite
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="py3-flake8 py3-setuptools"
makedepends="py3-gpep517 py3-wheel"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/${_pkgname:0:1}/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir"/$_pkgname-$pkgver

replaces="py-flake8-copyright"                # Backwards compatibility
provides="py-flake8-copyright=$pkgver-r$pkgrel" # Backwards compatibility

build() {
 gpep517 build-wheel \
  --wheel-dir .dist \
  --output-fd 3 3>&1 >&2
}

package() {
 gpep517 install-wheel --destdir "$pkgdir" \
  .dist/*.whl
}

sha512sums="
a6ab47e1bb715618f075c51f398e18180404871b3b0faf1c2d30701d5203db6bc23771bf22ffb5bafcd8ee856b9b64237
b316bd503ae7dceed6ca284ccd5a74d
  flake8-copyright-0.2.4.tar.gz
"
```

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```
# Contributor: Dhruvin Gandhi <contact@dhru.vin>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
```

```
pkgname=py3-license-expression
_pkgname=license_expression
pkgver=30.4.0
pkgrel=0
pkgdesc="Library to parse, compare, simplify and normalize license expressions"
url="https://github.com/nexB/license-expression"
arch="noarch"
license="Apache-2.0"
depends="python3 py3-boolean.py"
makedepends="py3-setuptools py3-setuptools_scm py3-gpep517 py3-wheel"
checkdepends="py3-pytest py3-pytest-xdist"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/l/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir/$_pkgname-$pkgver"

build() {
 gpep517 build-wheel \
  --wheel-dir .dist \
  --output-fd 3 3>&1 >&2
}

check() {
 python3 -m venv --clear --without-pip --system-site-packages .testenv
 .testenv/bin/python3 -m installer .dist/*.whl
 .testenv/bin/python3 -m pytest
}

package() {
 python3 -m installer -d "$pkgdir" \
  .dist/*.whl
}

sha512sums="
cc7cd6b5bd8ea4c99b66f074871ffd7cc78b3e8b1b0d3afd9b95efdb7147c8293db2fac977d684fc34d3d60bd79066a06
dc2bff0a38b130d9d83c63538502db1
  license_expression-30.4.0.tar.gz
"
# Contributor: Maxim Karasev <begs@disroot.org>
# Maintainer: mio <miyopan@e.email>
pkgname=bsd-games
pkgver=3.3
pkgrel=2
pkgdesc="traditional text mode games from BSD"
url="https://bsd-games.sourceforge.io/"
arch="all"
license="BSD-3-Clause"
install="$pkgname.post-install"
makedepends="ncurses-dev coreutils" # configure causes busybox expr error
```

```
subpackages="$pkgname-doc"
source="https://sourceforge.net/projects/bsd-games/files/bsd-games-$pkgver.tar.gz
 0001-bsd-games-scores-dir.patch
 "
options="!check" # no tests

build() {
 # some GNU autoconf options are ignored, but it works
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr \
  --sysconfdir=/etc \
  --mandir=/usr/share/man \
  --scoredir=/usr/share/$pkgname
 make
}

package() {
 make DESTDIR="$pkgdir" install
 install -Dm644 LICENSE "$pkgdir"/usr/share/licenses/bsd-games/LICENSE
}

sha512sums="
aaf36d09d4fe68514a5c279063d7e77a9a9a84c447037cba974b29faa07eb80c2aab2379d0699c196b5c27ffe1b2bb2c6
8d3390143e0e62d5e3d210ccfb61294
  bsd-games-3.3.tar.gz
e1def0d4835a877242c4173fae862e278a7858738e0bacacbb045a42bcabec2aa7c72d000bbd2421ce35fe66cdc1f52c0
577b7e278029ca5ed50f7aab22319f6  0001-bsd-games-scores-dir.patch
"
# Contributor: Carlo Landmeter <clandmeter@alpinelinux.org>
# Maintainer: Kevin Daudt <kdaudt@alpinelinux.org>
pkgname=spdx-licenses
pkgver=3.24.0
pkgrel=0
pkgdesc="Various data formats for the SPDX License List"
url="https://spdx.org/"
arch="noarch"
options="!check" # no test suite
license="CC-BY-3.0"
source="license-list-data-$pkgver.tar.gz::https://github.com/spdx/license-list-data/archive/v$pkgver.tar.gz"
builddir="$srcdir/license-list-data-$pkgver"
subpackages="$pkgname-list"

_types="html json rdfa rdfnt rdfturtle rdfxml template text"

for type in $_types; do
 subpackages="$subpackages $pkgname-$type:_subpkg"
```

```
done

package() {
 mkdir -p "$pkgdir"
}

_subpkg() {
 local type=${subpkgname/$pkgname-/}
 pkgdesc="$pkgdesc ($type)"
 install_if="$pkgname=$pkgver-r$pkgrel"
 mkdir -p "$subpkgdir"/usr/share/spdx
 cp -r "$builddir"/$type "$subpkgdir"/usr/share/spdx/
}

list() {
 pkgdesc="$pkgdesc (licence list)"
 mkdir -p "$subpkgdir"/usr/share/spdx
 local i; for i in "$builddir"/text/*.txt;
 do
  local license=${i##*/}
  echo ${license%.*} >> "$subpkgdir"/usr/share/spdx/license.lst
 done
}

sha512sums="
6eb81424e1b3173dbd8e17859b2e15dfe1c2af8f4da59b7dad0729c038a4cbdba95c34c2c546285fcdbbd41562e39575e
6a6ebb9463b70121e0a12b99d1307e7  license-list-data-3.24.0.tar.gz
"
```

mini_sendmail - accept email on behalf of real sendmail

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1.5596 py3-packaging 24.2-r0

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1.5597 py3-pip 24.3.1-r0

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A. HISTORY OF THE SOFTWARE
==========

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes

2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

Footnotes:

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All
Python releases are Open Source (see https://opensource.org for
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Release	Derived	Year	Owner	GPL-

	from			compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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1.5599 ldns 1.8.4-r0

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1.5602 nspr 4.36-r0

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* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/bind/annotation/ValueConstants.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/util/IntrospectorCleanupListener.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/client/ResourceAccessException.java
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* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/http/HttpMethod.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/http/client/reactive/ReactorNetty2ClientHttpConnector.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/http/codec/multipart/DefaultParts.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-

jar/org/springframework/http/server/reactive/AbstractServerHttpRequest.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-
jar/org/springframework/web/bind/support/BindParamNameResolver.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-
jar/org/springframework/web/util/UriUtils.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-
jar/org/springframework/http/converter/ObjectToStringHttpMessageConverter.java
*
/opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-
jar/org/springframework/http/codec/protobuf/ProtobufDecoder.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-
jar/org/springframework/web/server/session/HeaderWebSessionIdResolver.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-
jar/org/springframework/web/cors/reactive/CorsUtils.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-
jar/org/springframework/web/service/invoker/HttpServiceProxyFactoryExtensions.kt
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-
jar/org/springframework/http/client/OkHttp3ClientHttpRequest.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-
jar/org/springframework/http/client/AbstractStreamingClientHttpRequest.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-
jar/org/springframework/web/bind/support/WebExchangeBindException.java
*
/opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-
jar/org/springframework/web/client/support/RestTemplateAdapter.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-
jar/org/springframework/http/codec/xml/XmlEventDecoder.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-
jar/org/springframework/http/server/reactive/ReactorUriHelper.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-
jar/org/springframework/web/server/UnsupportedMediaTypeStatusException.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-
jar/org/springframework/http/client/MultipartBodyBuilder.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-
jar/org/springframework/web/method/support/HandlerMethodArgumentResolverComposite.java
*
/opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-
jar/org/springframework/http/server/reactive/DefaultServerHttpRequestBuilder.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-
jar/org/springframework/web/bind/MethodArgumentNotValidException.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-
jar/org/springframework/http/client/JettyClientHttpRequestFactory.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-
jar/org/springframework/http/codec/FormHttpMessageReader.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-
jar/org/springframework/web/service/invoker/UriBuilderFactoryArgumentResolver.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-
jar/org/springframework/http/client/SimpleClientHttpRequest.java

* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/http/converter/xml/MappingJackson2XmlHttpMessageConverter.java
*
 /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/http/client/reactive/AbstractClientHttpRequest.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/HttpRequestMethodNotSupportedException.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/bind/MissingPathVariableException.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/method/annotation/MethodArgumentTypeMismatchException.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/server/adapter/WebHttpHandlerBuilder.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/http/converter/ByteArrayHttpMessageConverter.java
*
 /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/util/pattern/SingleCharWildcardedPathElement.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/http/server/PathContainer.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/http/HttpCookie.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/http/server/DefaultPathContainer.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/http/ReadOnlyHttpHeaders.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/util/ForwardedHeaderUtils.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/http/HttpStatusCode.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/util/pattern/PatternParseException.java
*
 /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/http/codec/json/Jackson2JsonDecoder.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/http/HttpStatus.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/util/UriBuilder.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/http/server/reactive/UndertowServerHttpRequest.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/filter/ShallowEtagHeaderFilter.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/http/codec/json/Jackson2Tokenizer.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/accept/AbstractMappingContentNegotiationStrategy.java
*

/opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/cors/reactive/DefaultCorsProcessor.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/bind/support/DefaultDataBinderFactory.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/util/pattern/WildcardPathElement.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/service/invoker/HttpExchangeAdapter.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/http/converter/json/MappingJackson2HttpMessageConverter.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/context/support/ServletContextParameterFactoryBean.java
*
/opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/http/client/reactive/ReactorClientHttpResponse.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/http/converter/feed/AbstractWireFeedHttpMessageConverter.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/context/request/async/DeferredResultProcessingInterceptor.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/service/invoker/RequestPartArgumentResolver.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/http/HttpRequest.java
No license file was found, but licenses were detected in source scan.

This file maps Internet media types to unique file extension(s).
Although created for httpd, this file is used by many software systems
and has been placed in the public domain for unlimited redistribution.
#
The table below contains both registered and (common) unregistered types.
A type that has no unique extension can be ignored -- they are listed
here to guide configurations toward known types and to make it easier to
identify "new" types. File extensions are also commonly used to indicate
content languages and encodings, so choose them carefully.
#
Internet media types should be registered as described in RFC 4288.
The registry is at <https://www.iana.org/assignments/media-types/>.
#
This file was retrieved from
https://svn.apache.org/viewvc/httpd/httpd/trunk/docs/conf/mime.types?revision=1752884&view=co
#
MIME type (lowercased)   Extensions
== ==========
#
application/1d-interleaved-parityfec
application/3gpdash-qoe-report+xml
application/3gpp-ims+xml
application/a2l

```
# application/activemessage
# application/alto-costmap+json
# application/alto-costmapfilter+json
# application/alto-directory+json
# application/alto-endpointcost+json
# application/alto-endpointcostparams+json
# application/alto-endpointprop+json
# application/alto-endpointpropparams+json
# application/alto-error+json
# application/alto-networkmap+json
# application/alto-networkmapfilter+json
# application/aml
application/andrew-inset   ez
# application/applefile
application/applixware    aw
# application/atf
# application/atfx
application/atom+xml    atom
application/atomcat+xml    atomcat
# application/atomdeleted+xml
# application/atomicmail
application/atomsvc+xml    atomsvc
# application/atxml
# application/auth-policy+xml
# application/bacnet-xdd+zip
# application/batch-smtp
# application/beep+xml
# application/calendar+json
# application/calendar+xml
#
 application/call-completion
# application/cals-1840
# application/cbor
# application/ccmp+xml
application/ccxml+xml    ccxml
# application/cdfx+xml
application/cdmi-capability   cdmia
application/cdmi-container   cdmic
application/cdmi-domain    cdmid
application/cdmi-object    cdmio
application/cdmi-queue    cdmiq
# application/cdni
# application/cea
# application/cea-2018+xml
# application/cellml+xml
# application/cfw
# application/cms
# application/cnrp+xml
```

```
# application/coap-group+json
# application/commonground
# application/conference-info+xml
# application/cpl+xml
# application/csrattrs
# application/csta+xml
# application/cstadata+xml
# application/csvm+json
application/cu-seeme    cu
# application/cybercash
# application/dash+xml
# application/dashdelta
application/davmount+xml   davmount
# application/dca-rft
# application/dcd
# application/dec-dx
# application/dialog-info+xml
# application/dicom
# application/dii
# application/dit
# application/dns
application/docbook+xml    dbk
#
 application/dskpp+xml
application/dssc+der    dssc
application/dssc+xml    xdssc
# application/dvcs
application/ecmascript    ecma
# application/edi-consent
# application/edi-x12
# application/edifact
# application/efi
# application/emergencycalldata.comment+xml
# application/emergencycalldata.deviceinfo+xml
# application/emergencycalldata.providerinfo+xml
# application/emergencycalldata.serviceinfo+xml
# application/emergencycalldata.subscriberinfo+xml
application/emma+xml    emma
# application/emotionml+xml
# application/encaprtp
# application/epp+xml
application/epub+zip    epub
# application/eshop
# application/example
application/exi     exi
# application/fastinfoset
# application/fastsoap
# application/fdt+xml
```

```
# application/fits
# application/font-sfnt
application/font-tdpfr    pfr
application/font-woff    woff
# application/framework-attributes+xml
# application/geo+json
application/gml+xml    gml
application/gpx+xml    gpx
application/gxf     gxf
# application/gzip
#
 application/h224
# application/held+xml
# application/http
application/hyperstudio    stk
# application/ibe-key-request+xml
# application/ibe-pkg-reply+xml
# application/ibe-pp-data
# application/iges
# application/im-iscomposing+xml
# application/index
# application/index.cmd
# application/index.obj
# application/index.response
# application/index.vnd
application/inkml+xml    ink inkml
# application/iotp
application/ipfix    ipfix
# application/ipp
# application/isup
# application/its+xml
application/java-archive   jar
application/java-serialized-object  ser
application/java-vm    class
application/javascript    js
# application/jose
# application/jose+json
# application/jrd+json
application/json    json
# application/json-patch+json
# application/json-seq
application/jsonml+json    jsonml
# application/jwk+json
# application/jwk-set+json
# application/jwt
# application/kpml-request+xml
# application/kpml-response+xml
# application/ld+json
```

```
# application/lgr+xml
# application/link-format
#
 application/load-control+xml
application/lost+xml    lostxml
# application/lostsync+xml
# application/lxf
application/mac-binhex40   hqx
application/mac-compactpro   cpt
# application/macwriteii
application/mads+xml    mads
application/marc    mrc
application/marcxml+xml    mrcx
application/mathematica    ma nb mb
application/mathml+xml    mathml
# application/mathml-content+xml
# application/mathml-presentation+xml
# application/mbms-associated-procedure-description+xml
# application/mbms-deregister+xml
# application/mbms-envelope+xml
# application/mbms-msk+xml
# application/mbms-msk-response+xml
# application/mbms-protection-description+xml
# application/mbms-reception-report+xml
# application/mbms-register+xml
# application/mbms-register-response+xml
# application/mbms-schedule+xml
# application/mbms-user-service-description+xml
application/mbox    mbox
# application/media-policy-dataset+xml
# application/media_control+xml
application/mediaservercontrol+xml  mscml
# application/merge-patch+json
application/metalink+xml   metalink
application/metalink4+xml   meta4
application/mets+xml    mets
#
 application/mf4
# application/mikey
application/mods+xml    mods
# application/moss-keys
# application/moss-signature
# application/mosskey-data
# application/mosskey-request
application/mp21    m21 mp21
application/mp4     mp4s
# application/mpeg4-generic
# application/mpeg4-iod
```

```
# application/mpeg4-iod-xmt
# application/mrb-consumer+xml
# application/mrb-publish+xml
# application/msc-ivr+xml
# application/msc-mixer+xml
application/msword    doc dot
application/mxf     mxf
# application/nasdata
# application/news-checkgroups
# application/news-groupinfo
# application/news-transmission
# application/nlsml+xml
# application/nss
# application/ocsp-request
# application/ocsp-response
application/octet-stream bin dms lrf mar so dist distz pkg bpk dump elc deploy
application/oda     oda
# application/odx
application/oebps-package+xml   opf
application/ogg     ogx
application/omdoc+xml    omdoc
application/onenote    onetoc
 onetoc2 onetmp onepkg
application/oxps    oxps
# application/p2p-overlay+xml
# application/parityfec
application/patch-ops-error+xml   xer
application/pdf     pdf
# application/pdx
application/pgp-encrypted   pgp
# application/pgp-keys
application/pgp-signature   asc sig
application/pics-rules    prf
# application/pidf+xml
# application/pidf-diff+xml
application/pkcs10    p10
# application/pkcs12
application/pkcs7-mime    p7m p7c
application/pkcs7-signature   p7s
application/pkcs8    p8
application/pkix-attr-cert   ac
application/pkix-cert    cer
application/pkix-crl    crl
application/pkix-pkipath   pkipath
application/pkixcmp    pki
application/pls+xml    pls
# application/poc-settings+xml
application/postscript    ai eps ps
```

```
# application/ppsp-tracker+json
# application/problem+json
# application/problem+xml
# application/provenance+xml
# application/prs.alvestrand.titrax-sheet
application/prs.cww    cww
# application/prs.hpub+zip
#
 application/prs.nprend
# application/prs.plucker
# application/prs.rdf-xml-crypt
# application/prs.xsf+xml
application/pskc+xml    pskcxml
# application/qsig
# application/raptorfec
# application/rdap+json
application/rdf+xml    rdf
application/reginfo+xml    rif
application/relax-ng-compact-syntax  rnc
# application/remote-printing
# application/reputon+json
application/resource-lists+xml   rl
application/resource-lists-diff+xml  rld
# application/rfc+xml
# application/riscos
# application/rlmi+xml
application/rls-services+xml   rs
application/rpki-ghostbusters   gbr
application/rpki-manifest   mft
application/rpki-roa    roa
# application/rpki-updown
application/rsd+xml    rsd
application/rss+xml    rss
application/rtf     rtf
# application/rtploopback
# application/rtx
# application/samlassertion+xml
# application/samlmetadata+xml
application/sbml+xml    sbml
# application/scaip+xml
# application/scim+json
application/scvp-cv-request   scq
application/scvp-cv-response   scs
application/scvp-vp-request   spq
application/scvp-vp-response   spp
application/sdp     sdp
#
```

```
 application/sep+xml
# application/sep-exi
# application/session-info
# application/set-payment
application/set-payment-initiation  setpay
# application/set-registration
application/set-registration-initiation  setreg
# application/sgml
# application/sgml-open-catalog
application/shf+xml    shf
# application/sieve
# application/simple-filter+xml
# application/simple-message-summary
# application/simplesymbolcontainer
# application/slate
# application/smil
application/smil+xml    smi smil
# application/smpte336m
# application/soap+fastinfoset
# application/soap+xml
application/sparql-query   rq
application/sparql-results+xml   srx
# application/spirits-event+xml
# application/sql
application/srgs    gram
application/srgs+xml    grxml
application/sru+xml    sru
application/ssdl+xml    ssdl
application/ssml+xml    ssml
# application/tamp-apex-update
# application/tamp-apex-update-confirm
# application/tamp-community-update
#
 application/tamp-community-update-confirm
# application/tamp-error
# application/tamp-sequence-adjust
# application/tamp-sequence-adjust-confirm
# application/tamp-status-query
# application/tamp-status-response
# application/tamp-update
# application/tamp-update-confirm
application/tei+xml    tei teicorpus
application/thraud+xml    tfi
# application/timestamp-query
# application/timestamp-reply
application/timestamped-data   tsd
# application/ttml+xml
# application/tve-trigger
```

```
# application/ulpfec
# application/urc-grpsheet+xml
# application/urc-ressheet+xml
# application/urc-targetdesc+xml
# application/urc-uisocketdesc+xml
# application/vcard+json
# application/vcard+xml
# application/vemmi
# application/vividence.scriptfile
# application/vnd.3gpp-prose+xml
# application/vnd.3gpp-prose-pc3ch+xml
# application/vnd.3gpp.access-transfer-events+xml
# application/vnd.3gpp.bsf+xml
# application/vnd.3gpp.mid-call+xml
application/vnd.3gpp.pic-bw-large  plb
application/vnd.3gpp.pic-bw-small  psb
application/vnd.3gpp.pic-bw-var   pvb
#
 application/vnd.3gpp.sms
# application/vnd.3gpp.sms+xml
# application/vnd.3gpp.srvcc-ext+xml
# application/vnd.3gpp.srvcc-info+xml
# application/vnd.3gpp.state-and-event-info+xml
# application/vnd.3gpp.ussd+xml
# application/vnd.3gpp2.bcmcsinfo+xml
# application/vnd.3gpp2.sms
application/vnd.3gpp2.tcap   tcap
# application/vnd.3lightssoftware.imagescal
application/vnd.3m.post-it-notes  pwn
application/vnd.accpac.simply.aso  aso
application/vnd.accpac.simply.imp  imp
application/vnd.acucobol   acu
application/vnd.acucorp    atc acutc
application/vnd.adobe.air-application-installer-package+zip air
# application/vnd.adobe.flash.movie
application/vnd.adobe.formscentral.fcdt  fcdt
application/vnd.adobe.fxp   fxp fxpl
# application/vnd.adobe.partial-upload
application/vnd.adobe.xdp+xml   xdp
application/vnd.adobe.xfdf   xfdf
# application/vnd.aether.imp
# application/vnd.ah-barcode
application/vnd.ahead.space   ahead
application/vnd.airzip.filesecure.azf  azf
application/vnd.airzip.filesecure.azs  azs
application/vnd.amazon.ebook   azw
#
```

```
 application/vnd.amazon.mobi8-ebook
application/vnd.americandynamics.acc  acc
application/vnd.amiga.ami   ami
# application/vnd.amundsen.maze+xml
application/vnd.android.package-archive  apk
# application/vnd.anki
application/vnd.anser-web-certificate-issue-initiation cii
application/vnd.anser-web-funds-transfer-initiation fti
application/vnd.antix.game-component  atx
# application/vnd.apache.thrift.binary
# application/vnd.apache.thrift.compact
# application/vnd.apache.thrift.json
# application/vnd.api+json
application/vnd.apple.installer+xml  mpkg
application/vnd.apple.mpegurl   m3u8
# application/vnd.arastra.swi
application/vnd.aristanetworks.swi  swi
# application/vnd.artsquare
application/vnd.astraea-software.iota  iota
application/vnd.audiograph   aep
# application/vnd.autopackage
# application/vnd.avistar+xml
# application/vnd.balsamiq.bmml+xml
# application/vnd.balsamiq.bmpr
#
 application/vnd.bekitzur-stech+json
# application/vnd.biopax.rdf+xml
application/vnd.blueice.multipass  mpm
# application/vnd.bluetooth.ep.oob
# application/vnd.bluetooth.le.oob
application/vnd.bmi    bmi
application/vnd.businessobjects   rep
# application/vnd.cab-jscript
# application/vnd.canon-cpdl
# application/vnd.canon-lips
# application/vnd.cendio.thinlinc.clientconf
# application/vnd.century-systems.tcp_stream
application/vnd.chemdraw+xml   cdxml
# application/vnd.chess-pgn
application/vnd.chipnuts.karaoke-mmd  mmd
application/vnd.cinderella   cdy
# application/vnd.cirpack.isdn-ext
# application/vnd.citationstyles.style+xml
application/vnd.claymore   cla
application/vnd.cloanto.rp9   rp9
application/vnd.clonk.c4group   c4g c4d c4f c4p c4u
application/vnd.cluetrust.cartomobile-config  c11amc
application/vnd.cluetrust.cartomobile-config-pkg c11amz
```

```
# application/vnd.coffeescript
# application/vnd.collection+json
# application/vnd.collection.doc+json
# application/vnd.collection.next+json
#
 application/vnd.comicbook+zip
# application/vnd.commerce-battelle
application/vnd.commonspace   csp
application/vnd.contact.cmsg   cdbcmsg
# application/vnd.coreos.ignition+json
application/vnd.cosmocaller   cmc
application/vnd.crick.clicker   clkx
application/vnd.crick.clicker.keyboard  clkk
application/vnd.crick.clicker.palette  clkp
application/vnd.crick.clicker.template  clkt
application/vnd.crick.clicker.wordbank  clkw
application/vnd.criticaltools.wbs+xml  wbs
application/vnd.ctc-posml   pml
# application/vnd.ctct.ws+xml
# application/vnd.cups-pdf
# application/vnd.cups-postscript
application/vnd.cups-ppd   ppd
# application/vnd.cups-raster
# application/vnd.cups-raw
# application/vnd.curl
application/vnd.curl.car   car
application/vnd.curl.pcurl   pcurl
# application/vnd.cyan.dean.root+xml
# application/vnd.cybank
application/vnd.dart    dart
application/vnd.data-vision.rdz   rdz
# application/vnd.debian.binary-package
application/vnd.dece.data   uvf uvvf
 uvd uvvd
application/vnd.dece.ttml+xml   uvt uvvt
application/vnd.dece.unspecified  uvx uvvx
application/vnd.dece.zip   uvz uvvz
application/vnd.denovo.fcselayout-link  fe_launch
# application/vnd.desmume.movie
# application/vnd.dir-bi.plate-dl-nosuffix
# application/vnd.dm.delegation+xml
application/vnd.dna    dna
# application/vnd.document+json
application/vnd.dolby.mlp   mlp
# application/vnd.dolby.mobile.1
# application/vnd.dolby.mobile.2
# application/vnd.doremir.scorecloud-binary-document
application/vnd.dpgraph    dpg
```

```
application/vnd.dreamfactory   dfac
# application/vnd.drive+json
application/vnd.ds-keypoint   kpxx
# application/vnd.dtg.local
# application/vnd.dtg.local.flash
# application/vnd.dtg.local.html
application/vnd.dvb.ait    ait
# application/vnd.dvb.dvbj
# application/vnd.dvb.esgcontainer
# application/vnd.dvb.ipdcdftnotifaccess
# application/vnd.dvb.ipdcesgaccess
# application/vnd.dvb.ipdcesgaccess2
# application/vnd.dvb.ipdcesgpdd
# application/vnd.dvb.ipdcroaming
#
 application/vnd.dvb.iptv.alfec-base
# application/vnd.dvb.iptv.alfec-enhancement
# application/vnd.dvb.notif-aggregate-root+xml
# application/vnd.dvb.notif-container+xml
# application/vnd.dvb.notif-generic+xml
# application/vnd.dvb.notif-ia-msglist+xml
# application/vnd.dvb.notif-ia-registration-request+xml
# application/vnd.dvb.notif-ia-registration-response+xml
# application/vnd.dvb.notif-init+xml
# application/vnd.dvb.pfr
application/vnd.dvb.service   svc
# application/vnd.dxr
application/vnd.dynageo    geo
# application/vnd.dzr
# application/vnd.easykaraoke.cdgdownload
# application/vnd.ecdis-update
application/vnd.ecowin.chart   mag
# application/vnd.ecowin.filerequest
# application/vnd.ecowin.fileupdate
# application/vnd.ecowin.series
# application/vnd.ecowin.seriesrequest
# application/vnd.ecowin.seriesupdate
# application/vnd.emclient.accessrequest+xml
application/vnd.enliven    nml
# application/vnd.enphase.envoy
# application/vnd.eprints.data+xml
application/vnd.epson.esf   esf
application/vnd.epson.msf   msf
application/vnd.epson.quickanime  qam
application/vnd.epson.salt   slt
application/vnd.epson.ssf   ssf
#
```

```
 application/vnd.ericsson.quickcall
application/vnd.eszigno3+xml   es3 et3
# application/vnd.etsi.aoc+xml
# application/vnd.etsi.asic-e+zip
# application/vnd.etsi.asic-s+zip
# application/vnd.etsi.cug+xml
# application/vnd.etsi.iptvcommand+xml
# application/vnd.etsi.iptvdiscovery+xml
# application/vnd.etsi.iptvprofile+xml
# application/vnd.etsi.iptvsad-bc+xml
# application/vnd.etsi.iptvsad-cod+xml
# application/vnd.etsi.iptvsad-npvr+xml
# application/vnd.etsi.iptvservice+xml
# application/vnd.etsi.iptvsync+xml
# application/vnd.etsi.iptvueprofile+xml
# application/vnd.etsi.mcid+xml
# application/vnd.etsi.mheg5
# application/vnd.etsi.overload-control-policy-dataset+xml
# application/vnd.etsi.pstn+xml
# application/vnd.etsi.sci+xml
# application/vnd.etsi.simservs+xml
# application/vnd.etsi.timestamp-token
# application/vnd.etsi.tsl+xml
# application/vnd.etsi.tsl.der
#
 application/vnd.eudora.data
application/vnd.ezpix-album   ez2
application/vnd.ezpix-package   ez3
# application/vnd.f-secure.mobile
# application/vnd.fastcopy-disk-image
application/vnd.fdf    fdf
application/vnd.fdsn.mseed   mseed
application/vnd.fdsn.seed   seed dataless
# application/vnd.ffsns
# application/vnd.filmit.zfc
# application/vnd.fints
# application/vnd.firemonkeys.cloudcell
application/vnd.flographit   gph
application/vnd.fluxtime.clip   ftc
# application/vnd.font-fontforge-sfd
application/vnd.framemaker   fm frame maker book
application/vnd.frogans.fnc   fnc
application/vnd.frogans.ltf   ltf
application/vnd.fsc.weblaunch   fsc
application/vnd.fujitsu.oasys   oas
application/vnd.fujitsu.oasys2   oa2
application/vnd.fujitsu.oasys3   oa3
application/vnd.fujitsu.oasysgp   fg5
```

```
application/vnd.fujitsu.oasysprs  bh2
# application/vnd.fujixerox.art-ex
# application/vnd.fujixerox.art4
application/vnd.fujixerox.ddd   ddd
application/vnd.fujixerox.docuworks  xdw
application/vnd.fujixerox.docuworks.binder xbd
#
 application/vnd.fujixerox.docuworks.container
# application/vnd.fujixerox.hbpl
# application/vnd.fut-misnet
application/vnd.fuzzysheet   fzs
application/vnd.genomatix.tuxedo  txd
# application/vnd.geo+json
# application/vnd.geocube+xml
application/vnd.geogebra.file   ggb
application/vnd.geogebra.tool   ggt
application/vnd.geometry-explorer  gex gre
application/vnd.geonext    gxt
application/vnd.geoplan    g2w
application/vnd.geospace   g3w
# application/vnd.gerber
# application/vnd.globalplatform.card-content-mgt
# application/vnd.globalplatform.card-content-mgt-response
application/vnd.gmx    gmx
application/vnd.google-earth.kml+xml  kml
application/vnd.google-earth.kmz  kmz
# application/vnd.gov.sk.e-form+xml
# application/vnd.gov.sk.e-form+zip
# application/vnd.gov.sk.xmldatacontainer+xml
application/vnd.grafeq    gqf gqs
# application/vnd.gridmp
application/vnd.groove-account   gac
application/vnd.groove-help   ghf
application/vnd.groove-identity-message  gim
application/vnd.groove-injector   grv
application/vnd.groove-tool-message  gtm
application/vnd.groove-tool-template  tpl
application/vnd.groove-vcard   vcg
#
 application/vnd.hal+json
application/vnd.hal+xml    hal
application/vnd.handheld-entertainment+xml zmm
application/vnd.hbci    hbci
# application/vnd.hcl-bireports
# application/vnd.hdt
# application/vnd.heroku+json
application/vnd.hhe.lesson-player  les
application/vnd.hp-hpgl    hpgl
```

```
application/vnd.hp-hpid    hpid
application/vnd.hp-hps    hps
application/vnd.hp-jlyt    jlt
application/vnd.hp-pcl    pcl
application/vnd.hp-pclxl   pclxl
# application/vnd.httphone
application/vnd.hydrostatix.sof-data  sfd-hdstx
# application/vnd.hyperdrive+json
# application/vnd.hzn-3d-crossword
# application/vnd.ibm.afplinedata
# application/vnd.ibm.electronic-media
application/vnd.ibm.minipay   mpy
application/vnd.ibm.modcap   afp listafp list3820
application/vnd.ibm.rights-management  irm
application/vnd.ibm.secure-container  sc
application/vnd.iccprofile   icc
 icm
# application/vnd.ieee.1905
application/vnd.igloader   igl
application/vnd.immervision-ivp   ivp
application/vnd.immervision-ivu   ivu
# application/vnd.ims.imsccv1p1
# application/vnd.ims.imsccv1p2
# application/vnd.ims.imsccv1p3
# application/vnd.ims.lis.v2.result+json
# application/vnd.ims.lti.v2.toolconsumerprofile+json
# application/vnd.ims.lti.v2.toolproxy+json
# application/vnd.ims.lti.v2.toolproxy.id+json
# application/vnd.ims.lti.v2.toolsettings+json
# application/vnd.ims.lti.v2.toolsettings.simple+json
# application/vnd.informedcontrol.rms+xml
# application/vnd.informix-visionary
# application/vnd.infotech.project
# application/vnd.infotech.project+xml
# application/vnd.innopath.wamp.notification
application/vnd.insors.igm   igm
application/vnd.intercon.formnet  xpw xpx
application/vnd.intergeo   i2g
# application/vnd.intertrust.digibox
# application/vnd.intertrust.nncp
application/vnd.intu.qbo   qbo
application/vnd.intu.qfx   qfx
#
 application/vnd.iptc.g2.catalogitem+xml
# application/vnd.iptc.g2.conceptitem+xml
# application/vnd.iptc.g2.knowledgeitem+xml
# application/vnd.iptc.g2.newsitem+xml
# application/vnd.iptc.g2.newsmessage+xml
```

```
# application/vnd.iptc.g2.packageitem+xml
# application/vnd.iptc.g2.planningitem+xml
application/vnd.ipunplugged.rcprofile  rcprofile
application/vnd.irepository.package+xml  irp
application/vnd.is-xpr    xpr
application/vnd.isac.fcs   fcs
application/vnd.jam    jam
# application/vnd.japannet-directory-service
# application/vnd.japannet-jpnstore-wakeup
# application/vnd.japannet-payment-wakeup
# application/vnd.japannet-registration
# application/vnd.japannet-registration-wakeup
# application/vnd.japannet-setstore-wakeup
# application/vnd.japannet-verification
# application/vnd.japannet-verification-wakeup
application/vnd.jcp.javame.midlet-rms  rms
application/vnd.jisp    jisp
application/vnd.joost.joda-archive  joda
# application/vnd.jsk.isdn-ngn
application/vnd.kahootz    ktz
 ktr
application/vnd.kde.karbon   karbon
application/vnd.kde.kchart   chrt
application/vnd.kde.kformula   kfo
application/vnd.kde.kivio   flw
application/vnd.kde.kontour   kon
application/vnd.kde.kpresenter   kpr kpt
application/vnd.kde.kspread   ksp
application/vnd.kde.kword   kwd kwt
application/vnd.kenameaapp   htke
application/vnd.kidspiration   kia
application/vnd.kinar    kne knp
application/vnd.koan    skp skd skt skm
application/vnd.kodak-descriptor  sse
application/vnd.las.las+xml   lasxml
# application/vnd.liberty-request+xml
application/vnd.llamagraphics.life-balance.desktop lbd
application/vnd.llamagraphics.life-balance.exchange+xml lbe
application/vnd.lotus-1-2-3   123
application/vnd.lotus-approach   apr
application/vnd.lotus-freelance   pre
application/vnd.lotus-notes   nsf
application/vnd.lotus-organizer   org
application/vnd.lotus-screencam   scm
application/vnd.lotus-wordpro   lwp
application/vnd.macports.portpkg  portpkg
# application/vnd.mapbox-vector-tile
# application/vnd.marlin.drm.actiontoken+xml
```

```
#
 application/vnd.marlin.drm.conftoken+xml
# application/vnd.marlin.drm.license+xml
# application/vnd.marlin.drm.mdcf
# application/vnd.mason+json
# application/vnd.maxmind.maxmind-db
application/vnd.mcd	mcd
application/vnd.medcalcdata	mc1
application/vnd.mediastation.cdkey	cdkey
# application/vnd.meridian-slingshot
application/vnd.mfer	mwf
application/vnd.mfmp	mfm
# application/vnd.micro+json
application/vnd.micrografx.flo	flo
application/vnd.micrografx.igx	igx
# application/vnd.microsoft.portable-executable
# application/vnd.miele+json
application/vnd.mif	mif
# application/vnd.minisoft-hp3000-save
# application/vnd.mitsubishi.misty-guard.trustweb
application/vnd.mobius.daf	daf
application/vnd.mobius.dis	dis
application/vnd.mobius.mbk	mbk
application/vnd.mobius.mqy	mqy
application/vnd.mobius.msl	msl
application/vnd.mobius.plc	plc
application/vnd.mobius.txf	txf
application/vnd.mophun.application	mpn
application/vnd.mophun.certificate	mpc
#
 application/vnd.motorola.flexsuite
# application/vnd.motorola.flexsuite.adsi
# application/vnd.motorola.flexsuite.fis
# application/vnd.motorola.flexsuite.gotap
# application/vnd.motorola.flexsuite.kmr
# application/vnd.motorola.flexsuite.ttc
# application/vnd.motorola.flexsuite.wem
# application/vnd.motorola.iprm
application/vnd.mozilla.xul+xml	xul
# application/vnd.ms-3mfdocument
application/vnd.ms-artgalry	cil
# application/vnd.ms-asf
application/vnd.ms-cab-compressed	cab
# application/vnd.ms-color.iccprofile
application/vnd.ms-excel	xls xlm xla xlc xlt xlw
application/vnd.ms-excel.addin.macroenabled.12	xlam
application/vnd.ms-excel.sheet.binary.macroenabled.12 xlsb
application/vnd.ms-excel.sheet.macroenabled.12	xlsm
```

```
application/vnd.ms-excel.template.macroenabled.12 xltm
application/vnd.ms-fontobject   eot
application/vnd.ms-htmlhelp   chm
application/vnd.ms-ims    ims
application/vnd.ms-lrm    lrm
# application/vnd.ms-office.activex+xml
application/vnd.ms-officetheme   thmx
#
 application/vnd.ms-opentype
# application/vnd.ms-package.obfuscated-opentype
application/vnd.ms-pki.seccat   cat
application/vnd.ms-pki.stl   stl
# application/vnd.ms-playready.initiator+xml
application/vnd.ms-powerpoint   ppt pps pot
application/vnd.ms-powerpoint.addin.macroenabled.12  ppam
application/vnd.ms-powerpoint.presentation.macroenabled.12 pptm
application/vnd.ms-powerpoint.slide.macroenabled.12  sldm
application/vnd.ms-powerpoint.slideshow.macroenabled.12  ppsm
application/vnd.ms-powerpoint.template.macroenabled.12  potm
# application/vnd.ms-printdevicecapabilities+xml
# application/vnd.ms-printing.printticket+xml
# application/vnd.ms-printschematicket+xml
application/vnd.ms-project   mpp mpt
# application/vnd.ms-tnef
# application/vnd.ms-windows.devicepairing
# application/vnd.ms-windows.nwprinting.oob
# application/vnd.ms-windows.printerpairing
# application/vnd.ms-windows.wsd.oob
# application/vnd.ms-wmdrm.lic-chlg-req
# application/vnd.ms-wmdrm.lic-resp
#
 application/vnd.ms-wmdrm.meter-chlg-req
# application/vnd.ms-wmdrm.meter-resp
application/vnd.ms-word.document.macroenabled.12 docm
application/vnd.ms-word.template.macroenabled.12 dotm
application/vnd.ms-works   wps wks wcm wdb
application/vnd.ms-wpl    wpl
application/vnd.ms-xpsdocument   xps
# application/vnd.msa-disk-image
application/vnd.mseq    mseq
# application/vnd.msign
# application/vnd.multiad.creator
# application/vnd.multiad.creator.cif
# application/vnd.music-niff
application/vnd.musician   mus
application/vnd.muvee.style   msty
application/vnd.mynfc    taglet
# application/vnd.ncd.control
```

```
# application/vnd.ncd.reference
# application/vnd.nervana
# application/vnd.netfpx
application/vnd.neurolanguage.nlu  nlu
# application/vnd.nintendo.nitro.rom
# application/vnd.nintendo.snes.rom
application/vnd.nitf    ntf nitf
application/vnd.noblenet-directory  nnd
application/vnd.noblenet-sealer   nns
application/vnd.noblenet-web   nnw
# application/vnd.nokia.catalogs
#
 application/vnd.nokia.conml+wbxml
# application/vnd.nokia.conml+xml
# application/vnd.nokia.iptv.config+xml
# application/vnd.nokia.isds-radio-presets
# application/vnd.nokia.landmark+wbxml
# application/vnd.nokia.landmark+xml
# application/vnd.nokia.landmarkcollection+xml
# application/vnd.nokia.n-gage.ac+xml
application/vnd.nokia.n-gage.data  ngdat
application/vnd.nokia.n-gage.symbian.install n-gage
# application/vnd.nokia.ncd
# application/vnd.nokia.pcd+wbxml
# application/vnd.nokia.pcd+xml
application/vnd.nokia.radio-preset  rpst
application/vnd.nokia.radio-presets  rpss
application/vnd.novadigm.edm   edm
application/vnd.novadigm.edx   edx
application/vnd.novadigm.ext   ext
# application/vnd.ntt-local.content-share
# application/vnd.ntt-local.file-transfer
# application/vnd.ntt-local.ogw_remote-access
# application/vnd.ntt-local.sip-ta_remote
# application/vnd.ntt-local.sip-ta_tcp_stream
application/vnd.oasis.opendocument.chart  odc
application/vnd.oasis.opendocument.chart-template otc
application/vnd.oasis.opendocument.database  odb
application/vnd.oasis.opendocument.formula  odf
application/vnd.oasis.opendocument.formula-template odft
application/vnd.oasis.opendocument.graphics  odg
application/vnd.oasis.opendocument.graphics-template otg
application/vnd.oasis.opendocument.image  odi
application/vnd.oasis.opendocument.image-template oti
application/vnd.oasis.opendocument.presentation  odp
application/vnd.oasis.opendocument.presentation-template otp
application/vnd.oasis.opendocument.spreadsheet  ods
application/vnd.oasis.opendocument.spreadsheet-template ots
```

```
application/vnd.oasis.opendocument.text   odt
application/vnd.oasis.opendocument.text-master  odm
application/vnd.oasis.opendocument.text-template ott
application/vnd.oasis.opendocument.text-web  oth
#
 application/vnd.obn
# application/vnd.oftn.l10n+json
# application/vnd.oipf.contentaccessdownload+xml
# application/vnd.oipf.contentaccessstreaming+xml
# application/vnd.oipf.cspg-hexbinary
# application/vnd.oipf.dae.svg+xml
#
 application/vnd.oipf.dae.xhtml+xml
# application/vnd.oipf.mippvcontrolmessage+xml
# application/vnd.oipf.pae.gem
# application/vnd.oipf.spdiscovery+xml
# application/vnd.oipf.spdlist+xml
# application/vnd.oipf.ueprofile+xml
# application/vnd.oipf.userprofile+xml
application/vnd.olpc-sugar   xo
# application/vnd.oma-scws-config
# application/vnd.oma-scws-http-request
# application/vnd.oma-scws-http-response
# application/vnd.oma.bcast.associated-procedure-parameter+xml
# application/vnd.oma.bcast.drm-trigger+xml
# application/vnd.oma.bcast.imd+xml
# application/vnd.oma.bcast.ltkm
# application/vnd.oma.bcast.notification+xml
# application/vnd.oma.bcast.provisioningtrigger
# application/vnd.oma.bcast.sgboot
# application/vnd.oma.bcast.sgdd+xml
# application/vnd.oma.bcast.sgdu
# application/vnd.oma.bcast.simple-symbol-container
# application/vnd.oma.bcast.smartcard-trigger+xml
# application/vnd.oma.bcast.sprov+xml
# application/vnd.oma.bcast.stkm
# application/vnd.oma.cab-address-book+xml
#
 application/vnd.oma.cab-feature-handler+xml
# application/vnd.oma.cab-pcc+xml
# application/vnd.oma.cab-subs-invite+xml
# application/vnd.oma.cab-user-prefs+xml
# application/vnd.oma.dcd
# application/vnd.oma.dcdc
application/vnd.oma.dd2+xml   dd2
# application/vnd.oma.drm.risd+xml
# application/vnd.oma.group-usage-list+xml
# application/vnd.oma.lwm2m+json
```

application/vnd.oma.lwm2m+tlv
application/vnd.oma.pal+xml
application/vnd.oma.poc.detailed-progress-report+xml
application/vnd.oma.poc.final-report+xml
application/vnd.oma.poc.groups+xml
application/vnd.oma.poc.invocation-descriptor+xml
application/vnd.oma.poc.optimized-progress-report+xml
application/vnd.oma.push
application/vnd.oma.scidm.messages+xml
application/vnd.oma.xcap-directory+xml
application/vnd.omads-email+xml
application/vnd.omads-file+xml
application/vnd.omads-folder+xml
application/vnd.omaloc-supl-init
application/vnd.onepager
application/vnd.openblox.game+xml
#
application/vnd.openblox.game-binary
application/vnd.openeye.oeb
application/vnd.openofficeorg.extension oxt
application/vnd.openxmlformats-officedocument.custom-properties+xml
application/vnd.openxmlformats-officedocument.customxmlproperties+xml
application/vnd.openxmlformats-officedocument.drawing+xml
application/vnd.openxmlformats-officedocument.drawingml.chart+xml
application/vnd.openxmlformats-officedocument.drawingml.chartshapes+xml
application/vnd.openxmlformats-officedocument.drawingml.diagramcolors+xml
application/vnd.openxmlformats-officedocument.drawingml.diagramdata+xml
application/vnd.openxmlformats-officedocument.drawingml.diagramlayout+xml
application/vnd.openxmlformats-officedocument.drawingml.diagramstyle+xml
application/vnd.openxmlformats-officedocument.extended-properties+xml
application/vnd.openxmlformats-officedocument.presentationml.commentauthors+xml
application/vnd.openxmlformats-officedocument.presentationml.comments+xml
application/vnd.openxmlformats-officedocument.presentationml.handoutmaster+xml
#
application/vnd.openxmlformats-officedocument.presentationml.notesmaster+xml
application/vnd.openxmlformats-officedocument.presentationml.notesslide+xml
application/vnd.openxmlformats-officedocument.presentationml.presentation pptx
application/vnd.openxmlformats-officedocument.presentationml.presentation.main+xml
application/vnd.openxmlformats-officedocument.presentationml.presprops+xml
application/vnd.openxmlformats-officedocument.presentationml.slide sldx
application/vnd.openxmlformats-officedocument.presentationml.slide+xml
application/vnd.openxmlformats-officedocument.presentationml.slidelayout+xml
application/vnd.openxmlformats-officedocument.presentationml.slidemaster+xml
application/vnd.openxmlformats-officedocument.presentationml.slideshow ppsx
application/vnd.openxmlformats-officedocument.presentationml.slideshow.main+xml
application/vnd.openxmlformats-officedocument.presentationml.slideupdateinfo+xml
#

application/vnd.openxmlformats-officedocument.presentationml.tablestyles+xml
application/vnd.openxmlformats-officedocument.presentationml.tags+xml
application/vnd.openxmlformats-officedocument.presentationml.template potx
application/vnd.openxmlformats-officedocument.presentationml.template.main+xml
application/vnd.openxmlformats-officedocument.presentationml.viewprops+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.calcchain+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.chartsheet+xml
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application/vnd.openxmlformats-officedocument.spreadsheetml.dialogsheet+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.externallink+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.pivotcachedefinition+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.pivotcacherecords+xml
#
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application/vnd.openxmlformats-officedocument.spreadsheetml.revisionlog+xml
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application/vnd.openxmlformats-officedocument.spreadsheetml.sheet xlsx
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application/vnd.openxmlformats-officedocument.spreadsheetml.sheetmetadata+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.styles+xml
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application/vnd.openxmlformats-officedocument.spreadsheetml.template xltx
application/vnd.openxmlformats-officedocument.spreadsheetml.template.main+xml
#
application/vnd.openxmlformats-officedocument.spreadsheetml.usernames+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.volatiledependencies+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.worksheet+xml
application/vnd.openxmlformats-officedocument.theme+xml
application/vnd.openxmlformats-officedocument.themeoverride+xml
application/vnd.openxmlformats-officedocument.vmldrawing
application/vnd.openxmlformats-officedocument.wordprocessingml.comments+xml
application/vnd.openxmlformats-officedocument.wordprocessingml.document docx
application/vnd.openxmlformats-officedocument.wordprocessingml.document.glossary+xml
application/vnd.openxmlformats-officedocument.wordprocessingml.document.main+xml
application/vnd.openxmlformats-officedocument.wordprocessingml.endnotes+xml
application/vnd.openxmlformats-officedocument.wordprocessingml.fonttable+xml
application/vnd.openxmlformats-officedocument.wordprocessingml.footer+xml
#
application/vnd.openxmlformats-officedocument.wordprocessingml.footnotes+xml
application/vnd.openxmlformats-officedocument.wordprocessingml.numbering+xml
application/vnd.openxmlformats-officedocument.wordprocessingml.settings+xml
application/vnd.openxmlformats-officedocument.wordprocessingml.styles+xml
application/vnd.openxmlformats-officedocument.wordprocessingml.template dotx
application/vnd.openxmlformats-officedocument.wordprocessingml.template.main+xml

```
# application/vnd.openxmlformats-officedocument.wordprocessingml.websettings+xml
# application/vnd.openxmlformats-package.core-properties+xml
# application/vnd.openxmlformats-package.digital-signature-xmlsignature+xml
# application/vnd.openxmlformats-package.relationships+xml
# application/vnd.oracle.resource+json
# application/vnd.orange.indata
# application/vnd.osa.netdeploy
application/vnd.osgeo.mapguide.package  mgp
# application/vnd.osgi.bundle
application/vnd.osgi.dp    dp
application/vnd.osgi.subsystem   esa
#
 application/vnd.otps.ct-kip+xml
# application/vnd.oxli.countgraph
# application/vnd.pagerduty+json
application/vnd.palm    pdb pqa oprc
# application/vnd.panoply
# application/vnd.paos.xml
application/vnd.pawaafile   paw
# application/vnd.pcos
application/vnd.pg.format   str
application/vnd.pg.osasli   ei6
# application/vnd.piaccess.application-licence
application/vnd.picsel    efif
application/vnd.pmi.widget   wg
# application/vnd.poc.group-advertisement+xml
application/vnd.pocketlearn   plf
application/vnd.powerbuilder6   pbd
# application/vnd.powerbuilder6-s
# application/vnd.powerbuilder7
# application/vnd.powerbuilder7-s
# application/vnd.powerbuilder75
# application/vnd.powerbuilder75-s
# application/vnd.preminet
application/vnd.previewsystems.box  box
application/vnd.proteus.magazine  mgz
application/vnd.publishare-delta-tree  qps
application/vnd.pvi.ptid1   ptid
# application/vnd.pwg-multiplexed
# application/vnd.pwg-xhtml-print+xml
# application/vnd.qualcomm.brew-app-res
#
 application/vnd.quarantainenet
application/vnd.quark.quarkxpress  qxd qxt qwd qwt qxl qxb
# application/vnd.quobject-quoxdocument
# application/vnd.radisys.moml+xml
# application/vnd.radisys.msml+xml
# application/vnd.radisys.msml-audit+xml
```

```
# application/vnd.radisys.msml-audit-conf+xml
# application/vnd.radisys.msml-audit-conn+xml
# application/vnd.radisys.msml-audit-dialog+xml
# application/vnd.radisys.msml-audit-stream+xml
# application/vnd.radisys.msml-conf+xml
# application/vnd.radisys.msml-dialog+xml
# application/vnd.radisys.msml-dialog-base+xml
# application/vnd.radisys.msml-dialog-fax-detect+xml
# application/vnd.radisys.msml-dialog-fax-sendrecv+xml
# application/vnd.radisys.msml-dialog-group+xml
# application/vnd.radisys.msml-dialog-speech+xml
# application/vnd.radisys.msml-dialog-transform+xml
# application/vnd.rainstor.data
# application/vnd.rapid
# application/vnd.rar
application/vnd.realvnc.bed   bed
application/vnd.recordare.musicxml  mxl
application/vnd.recordare.musicxml+xml  musicxml
#
 application/vnd.renlearn.rlprint
application/vnd.rig.cryptonote   cryptonote
application/vnd.rim.cod    cod
application/vnd.rn-realmedia   rm
application/vnd.rn-realmedia-vbr  rmvb
application/vnd.route66.link66+xml  link66
# application/vnd.rs-274x
# application/vnd.ruckus.download
# application/vnd.s3sms
application/vnd.sailingtracker.track  st
# application/vnd.sbm.cid
# application/vnd.sbm.mid2
# application/vnd.scribus
# application/vnd.sealed.3df
# application/vnd.sealed.csf
# application/vnd.sealed.doc
# application/vnd.sealed.eml
# application/vnd.sealed.mht
# application/vnd.sealed.net
# application/vnd.sealed.ppt
# application/vnd.sealed.tiff
# application/vnd.sealed.xls
# application/vnd.sealedmedia.softseal.html
# application/vnd.sealedmedia.softseal.pdf
application/vnd.seemail    see
application/vnd.sema    sema
application/vnd.semd    semd
application/vnd.semf    semf
application/vnd.shana.informed.formdata  ifm
```

```
application/vnd.shana.informed.formtemplate itp
application/vnd.shana.informed.interchange iif
application/vnd.shana.informed.package  ipk
application/vnd.simtech-mindmapper  twd
 twds
# application/vnd.siren+json
application/vnd.smaf    mmf
# application/vnd.smart.notebook
application/vnd.smart.teacher   teacher
# application/vnd.software602.filler.form+xml
# application/vnd.software602.filler.form-xml-zip
application/vnd.solent.sdkm+xml   sdkm sdkd
application/vnd.spotfire.dxp   dxp
application/vnd.spotfire.sfs   sfs
# application/vnd.sss-cod
# application/vnd.sss-dtf
# application/vnd.sss-ntf
application/vnd.stardivision.calc  sdc
application/vnd.stardivision.draw  sda
application/vnd.stardivision.impress  sdd
application/vnd.stardivision.math  smf
application/vnd.stardivision.writer  sdw vor
application/vnd.stardivision.writer-global sgl
application/vnd.stepmania.package  smzip
application/vnd.stepmania.stepchart  sm
# application/vnd.street-stream
# application/vnd.sun.wadl+xml
application/vnd.sun.xml.calc   sxc
application/vnd.sun.xml.calc.template  stc
application/vnd.sun.xml.draw   sxd
application/vnd.sun.xml.draw.template  std
application/vnd.sun.xml.impress   sxi
application/vnd.sun.xml.impress.template sti
application/vnd.sun.xml.math   sxm
application/vnd.sun.xml.writer   sxw
application/vnd.sun.xml.writer.global  sxg
application/vnd.sun.xml.writer.template  stw
application/vnd.sus-calendar   sus
 susp
application/vnd.svd    svd
# application/vnd.swiftview-ics
application/vnd.symbian.install   sis sisx
application/vnd.syncml+xml   xsm
application/vnd.syncml.dm+wbxml   bdm
application/vnd.syncml.dm+xml   xdm
# application/vnd.syncml.dm.notification
# application/vnd.syncml.dmddf+wbxml
# application/vnd.syncml.dmddf+xml
```

```
# application/vnd.syncml.dmtnds+wbxml
# application/vnd.syncml.dmtnds+xml
# application/vnd.syncml.ds.notification
application/vnd.tao.intent-module-archive tao
application/vnd.tcpdump.pcap   pcap cap dmp
# application/vnd.tmd.mediaflex.api+xml
# application/vnd.tml
application/vnd.tmobile-livetv   tmo
application/vnd.trid.tpt   tpt
application/vnd.triscape.mxs   mxs
application/vnd.trueapp    tra
#
 application/vnd.truedoc
# application/vnd.ubisoft.webplayer
application/vnd.ufdl    ufd ufdl
application/vnd.uiq.theme   utz
application/vnd.umajin    umj
application/vnd.unity    unityweb
application/vnd.uoml+xml   uoml
# application/vnd.uplanet.alert
# application/vnd.uplanet.alert-wbxml
# application/vnd.uplanet.bearer-choice
# application/vnd.uplanet.bearer-choice-wbxml
# application/vnd.uplanet.cacheop
# application/vnd.uplanet.cacheop-wbxml
# application/vnd.uplanet.channel
# application/vnd.uplanet.channel-wbxml
# application/vnd.uplanet.list
# application/vnd.uplanet.list-wbxml
# application/vnd.uplanet.listcmd
# application/vnd.uplanet.listcmd-wbxml
# application/vnd.uplanet.signal
# application/vnd.uri-map
# application/vnd.valve.source.material
application/vnd.vcx    vcx
# application/vnd.vd-study
# application/vnd.vectorworks
# application/vnd.vel+json
#
 application/vnd.verimatrix.vcas
# application/vnd.vidsoft.vidconference
application/vnd.visio    vsd vst vss vsw
application/vnd.visionary   vis
# application/vnd.vividence.scriptfile
application/vnd.vsf    vsf
# application/vnd.wap.sic
# application/vnd.wap.slc
application/vnd.wap.wbxml   wbxml
```

```
application/vnd.wap.wmlc   wmlc
application/vnd.wap.wmlscriptc   wmlsc
application/vnd.webturbo   wtb
# application/vnd.wfa.p2p
# application/vnd.wfa.wsc
# application/vnd.windows.devicepairing
# application/vnd.wmc
# application/vnd.wmf.bootstrap
# application/vnd.wolfram.mathematica
# application/vnd.wolfram.mathematica.package
application/vnd.wolfram.player   nbp
application/vnd.wordperfect   wpd
application/vnd.wqd    wqd
# application/vnd.wrq-hp3000-labelled
application/vnd.wt.stf    stf
# application/vnd.wv.csp+wbxml
# application/vnd.wv.csp+xml
# application/vnd.wv.ssp+xml
# application/vnd.xacml+json
application/vnd.xara    xar
application/vnd.xfdl    xfdl
# application/vnd.xfdl.webform
#
 application/vnd.xmi+xml
# application/vnd.xmpie.cpkg
# application/vnd.xmpie.dpkg
# application/vnd.xmpie.plan
# application/vnd.xmpie.ppkg
# application/vnd.xmpie.xlim
application/vnd.yamaha.hv-dic   hvd
application/vnd.yamaha.hv-script  hvs
application/vnd.yamaha.hv-voice   hvp
application/vnd.yamaha.openscoreformat   osf
application/vnd.yamaha.openscoreformat.osfpvg+xml osfpvg
# application/vnd.yamaha.remote-setup
application/vnd.yamaha.smaf-audio  saf
application/vnd.yamaha.smaf-phrase  spf
# application/vnd.yamaha.through-ngn
# application/vnd.yamaha.tunnel-udpencap
# application/vnd.yaoweme
application/vnd.yellowriver-custom-menu  cmp
application/vnd.zul    zir zirz
application/vnd.zzazz.deck+xml   zaz
application/voicexml+xml   vxml
# application/vq-rtcpxr
# application/watcherinfo+xml
# application/whoispp-query
# application/whoispp-response
```

```
application/widget    wgt
application/winhlp    hlp
# application/wita
# application/wordperfect5.1
application/wsdl+xml    wsdl
application/wspolicy+xml   wspolicy
application/x-7z-compressed   7z
application/x-abiword    abw
application/x-ace-compressed   ace
#
 application/x-amf
application/x-apple-diskimage   dmg
application/x-authorware-bin   aab x32 u32 vox
application/x-authorware-map   aam
application/x-authorware-seg   aas
application/x-bcpio    bcpio
application/x-bittorrent   torrent
application/x-blorb    blb blorb
application/x-bzip    bz
application/x-bzip2    bz2 boz
application/x-cbr    cbr cba cbt cbz cb7
application/x-cdlink    vcd
application/x-cfs-compressed   cfs
application/x-chat    chat
application/x-chess-pgn    pgn
# application/x-compress
application/x-conference   nsc
application/x-cpio    cpio
application/x-csh    csh
application/x-debian-package   deb udeb
application/x-dgc-compressed   dgc
application/x-director   dir dcr dxr cst cct cxt w3d fgd swa
application/x-doom    wad
application/x-dtbncx+xml   ncx
application/x-dtbook+xml   dtb
application/x-dtbresource+xml   res
application/x-dvi    dvi
application/x-envoy    evy
application/x-eva    eva
application/x-font-bdf    bdf
#
 application/x-font-dos
# application/x-font-framemaker
application/x-font-ghostscript   gsf
# application/x-font-libgrx
application/x-font-linux-psf   psf
application/x-font-otf    otf
application/x-font-pcf    pcf
```

```
application/x-font-snf    snf
# application/x-font-speedo
# application/x-font-sunos-news
application/x-font-ttf    ttf ttc
application/x-font-type1   pfa pfb pfm afm
# application/x-font-vfont
application/x-freearc    arc
application/x-futuresplash   spl
application/x-gca-compressed   gca
application/x-glulx    ulx
application/x-gnumeric    gnumeric
application/x-gramps-xml   gramps
application/x-gtar    gtar
# application/x-gzip
application/x-hdf    hdf
application/x-install-instructions  install
application/x-iso9660-image   iso
application/x-java-jnlp-file   jnlp
application/x-latex    latex
application/x-lzh-compressed   lzh lha
application/x-mie    mie
application/x-mobipocket-ebook   prc
 mobi
application/x-ms-application   application
application/x-ms-shortcut   lnk
application/x-ms-wmd    wmd
application/x-ms-wmz    wmz
application/x-ms-xbap    xbap
application/x-msaccess    mdb
application/x-msbinder    obd
application/x-mscardfile   crd
application/x-msclip    clp
application/x-msdownload   exe dll com bat msi
application/x-msmediaview   mvb m13 m14
application/x-msmetafile   wmf wmz emf emz
application/x-msmoney    mny
application/x-mspublisher   pub
application/x-msschedule   scd
application/x-msterminal   trm
application/x-mswrite    wri
application/x-netcdf    nc cdf
application/x-nzb    nzb
application/x-pkcs12    p12 pfx
application/x-pkcs7-certificates  p7b spc
application/x-pkcs7-certreqresp   p7r
application/x-rar-compressed   rar
application/x-research-info-systems  ris
application/x-sh    sh
```

```
application/x-shar    shar
application/x-shockwave-flash   swf
application/x-silverlight-app   xap
application/x-sql    sql
application/x-stuffit    sit
application/x-stuffitx    sitx
application/x-subrip    srt
application/x-sv4cpio    sv4cpio
application/x-sv4crc    sv4crc
application/x-t3vm-image   t3
application/x-tads    gam
application/x-tar    tar
application/x-tcl    tcl
application/x-tex    tex
application/x-tex-tfm    tfm
application/x-texinfo    texinfo
 texi
application/x-tgif    obj
application/x-ustar    ustar
application/x-wais-source   src
# application/x-www-form-urlencoded
application/x-x509-ca-cert   der crt
application/x-xfig    fig
application/x-xliff+xml    xlf
application/x-xpinstall    xpi
application/x-xz    xz
application/x-zmachine    z1 z2 z3 z4 z5 z6 z7 z8
# application/x400-bp
# application/xacml+xml
application/xaml+xml    xaml
# application/xcap-att+xml
# application/xcap-caps+xml
application/xcap-diff+xml   xdf
# application/xcap-el+xml
# application/xcap-error+xml
# application/xcap-ns+xml
# application/xcon-conference-info+xml
# application/xcon-conference-info-diff+xml
application/xenc+xml    xenc
application/xhtml+xml    xhtml
 xht
# application/xhtml-voice+xml
application/xml     xml xsl
application/xml-dtd    dtd
# application/xml-external-parsed-entity
# application/xml-patch+xml
# application/xmpp+xml
application/xop+xml    xop
```

```
application/xproc+xml    xpl
application/xslt+xml    xslt
application/xspf+xml    xspf
application/xv+xml    mxml xhvml xvml xvm
application/yang    yang
application/yin+xml    yin
application/zip     zip
# application/zlib
# audio/1d-interleaved-parityfec
# audio/32kadpcm
# audio/3gpp
# audio/3gpp2
# audio/ac3
audio/adpcm     adp
# audio/amr
# audio/amr-wb
# audio/amr-wb+
# audio/aptx
# audio/asc
# audio/atrac-advanced-lossless
# audio/atrac-x
# audio/atrac3
audio/basic     au snd
# audio/bv16
# audio/bv32
# audio/clearmode
# audio/cn
# audio/dat12
# audio/dls
# audio/dsr-es201108
# audio/dsr-es202050
# audio/dsr-es202211
# audio/dsr-es202212
# audio/dv
# audio/dvi4
# audio/eac3
# audio/encaprtp
# audio/evrc
# audio/evrc-qcp
# audio/evrc0
# audio/evrc1
#
 audio/evrcb
# audio/evrcb0
# audio/evrcb1
# audio/evrcnw
# audio/evrcnw0
# audio/evrcnw1
```

```
# audio/evrcwb
# audio/evrcwb0
# audio/evrcwb1
# audio/evs
# audio/example
# audio/fwdred
# audio/g711-0
# audio/g719
# audio/g722
# audio/g7221
# audio/g723
# audio/g726-16
# audio/g726-24
# audio/g726-32
# audio/g726-40
# audio/g728
# audio/g729
# audio/g7291
# audio/g729d
# audio/g729e
# audio/gsm
# audio/gsm-efr
# audio/gsm-hr-08
# audio/ilbc
# audio/ip-mr_v2.5
# audio/isac
# audio/l16
# audio/l20
# audio/l24
# audio/l8
# audio/lpc
audio/midi     mid midi kar rmi
# audio/mobile-xmf
audio/mp4     m4a mp4a
# audio/mp4a-latm
# audio/mpa
# audio/mpa-robust
audio/mpeg     mpga mp2 mp2a mp3 m2a m3a
# audio/mpeg4-generic
# audio/musepack
audio/ogg     oga ogg spx
# audio/opus
# audio/parityfec
# audio/pcma
# audio/pcma-wb
# audio/pcmu
# audio/pcmu-wb
# audio/prs.sid
```

```
# audio/qcelp
# audio/raptorfec
# audio/red
# audio/rtp-enc-aescm128
# audio/rtp-midi
# audio/rtploopback
# audio/rtx
audio/s3m     s3m
audio/silk     sil
#
 audio/smv
# audio/smv-qcp
# audio/smv0
# audio/sp-midi
# audio/speex
# audio/t140c
# audio/t38
# audio/telephone-event
# audio/tone
# audio/uemclip
# audio/ulpfec
# audio/vdvi
# audio/vmr-wb
# audio/vnd.3gpp.iufp
# audio/vnd.4sb
# audio/vnd.audiokoz
# audio/vnd.celp
# audio/vnd.cisco.nse
# audio/vnd.cmles.radio-events
# audio/vnd.cns.anp1
# audio/vnd.cns.inf1
audio/vnd.dece.audio    uva uvva
audio/vnd.digital-winds    eol
# audio/vnd.dlna.adts
# audio/vnd.dolby.heaac.1
# audio/vnd.dolby.heaac.2
# audio/vnd.dolby.mlp
# audio/vnd.dolby.mps
# audio/vnd.dolby.pl2
# audio/vnd.dolby.pl2x
# audio/vnd.dolby.pl2z
# audio/vnd.dolby.pulse.1
audio/vnd.dra     dra
audio/vnd.dts     dts
audio/vnd.dts.hd    dtshd
# audio/vnd.dvb.file
# audio/vnd.everad.plj
# audio/vnd.hns.audio
```

```
audio/vnd.lucent.voice    lvp
audio/vnd.ms-playready.media.pya  pya
# audio/vnd.nokia.mobile-xmf
# audio/vnd.nortel.vbk
audio/vnd.nuera.ecelp4800   ecelp4800
audio/vnd.nuera.ecelp7470   ecelp7470
audio/vnd.nuera.ecelp9600   ecelp9600
#
 audio/vnd.octel.sbc
# audio/vnd.qcelp
# audio/vnd.rhetorex.32kadpcm
audio/vnd.rip     rip
# audio/vnd.sealedmedia.softseal.mpeg
# audio/vnd.vmx.cvsd
# audio/vorbis
# audio/vorbis-config
audio/webm     weba
audio/x-aac     aac
audio/x-aiff     aif aiff aifc
audio/x-caf     caf
audio/x-flac     flac
audio/x-matroska    mka
audio/x-mpegurl     m3u
audio/x-ms-wax     wax
audio/x-ms-wma     wma
audio/x-pn-realaudio    ram ra
audio/x-pn-realaudio-plugin   rmp
# audio/x-tta
audio/x-wav     wav
audio/xm     xm
chemical/x-cdx     cdx
chemical/x-cif     cif
chemical/x-cmdf     cmdf
chemical/x-cml     cml
chemical/x-csml     csml
# chemical/x-pdb
chemical/x-xyz     xyz
image/bmp     bmp
image/cgm     cgm
# image/dicom-rle
# image/emf
# image/example
# image/fits
image/g3fax     g3
image/gif     gif
image/ief     ief
# image/jls
# image/jp2
```

```
image/jpeg     jpeg jpg jpe
# image/jpm
# image/jpx
image/ktx     ktx
# image/naplps
image/png     png
image/prs.btif     btif
#
 image/prs.pti
# image/pwg-raster
image/sgi     sgi
image/svg+xml     svg svgz
# image/t38
image/tiff     tiff tif
# image/tiff-fx
image/vnd.adobe.photoshop   psd
# image/vnd.airzip.accelerator.azv
# image/vnd.cns.inf2
image/vnd.dece.graphic    uvi uvvi uvg uvvg
image/vnd.djvu     djvu djv
image/vnd.dvb.subtitle    sub
image/vnd.dwg     dwg
image/vnd.dxf     dxf
image/vnd.fastbidsheet    fbs
image/vnd.fpx     fpx
image/vnd.fst     fst
image/vnd.fujixerox.edmics-mmr   mmr
image/vnd.fujixerox.edmics-rlc   rlc
# image/vnd.globalgraphics.pgb
# image/vnd.microsoft.icon
# image/vnd.mix
# image/vnd.mozilla.apng
image/vnd.ms-modi    mdi
image/vnd.ms-photo    wdp
image/vnd.net-fpx    npx
# image/vnd.radiance
# image/vnd.sealed.png
# image/vnd.sealedmedia.softseal.gif
# image/vnd.sealedmedia.softseal.jpg
# image/vnd.svf
# image/vnd.tencent.tap
# image/vnd.valve.source.texture
image/vnd.wap.wbmp    wbmp
image/vnd.xiff     xif
# image/vnd.zbrush.pcx
image/webp     webp
# image/wmf
image/x-3ds     3ds
```

```
image/x-cmu-raster    ras
image/x-cmx     cmx
image/x-freehand    fh
 fhc fh4 fh5 fh7
image/x-icon     ico
image/x-mrsid-image    sid
image/x-pcx     pcx
image/x-pict     pic pct
image/x-portable-anymap    pnm
image/x-portable-bitmap    pbm
image/x-portable-graymap   pgm
image/x-portable-pixmap    ppm
image/x-rgb     rgb
image/x-tga     tga
image/x-xbitmap     xbm
image/x-xpixmap     xpm
image/x-xwindowdump    xwd
# message/cpim
# message/delivery-status
# message/disposition-notification
# message/example
# message/external-body
# message/feedback-report
# message/global
# message/global-delivery-status
# message/global-disposition-notification
# message/global-headers
# message/http
# message/imdn+xml
# message/news
# message/partial
message/rfc822     eml mime
# message/s-http
# message/sip
# message/sipfrag
# message/tracking-status
# message/vnd.si.simp
# message/vnd.wfa.wsc
# model/example
# model/gltf+json
model/iges     igs iges
model/mesh     msh mesh silo
model/vnd.collada+xml    dae
model/vnd.dwf     dwf
#
 model/vnd.flatland.3dml
model/vnd.gdl     gdl
# model/vnd.gs-gdl
```

```
# model/vnd.gs.gdl
model/vnd.gtw	gtw
# model/vnd.moml+xml
model/vnd.mts	mts
# model/vnd.opengex
# model/vnd.parasolid.transmit.binary
# model/vnd.parasolid.transmit.text
# model/vnd.rosette.annotated-data-model
# model/vnd.valve.source.compiled-map
model/vnd.vtu	vtu
model/vrml	wrl vrml
model/x3d+binary	x3db x3dbz
# model/x3d+fastinfoset
model/x3d+vrml	x3dv x3dvz
model/x3d+xml	x3d x3dz
# model/x3d-vrml
# multipart/alternative
# multipart/appledouble
# multipart/byteranges
# multipart/digest
# multipart/encrypted
# multipart/example
# multipart/form-data
# multipart/header-set
# multipart/mixed
# multipart/parallel
# multipart/related
# multipart/report
# multipart/signed
# multipart/voice-message
# multipart/x-mixed-replace
# text/1d-interleaved-parityfec
text/cache-manifest	appcache
text/calendar	ics ifb
text/css	css
text/csv	csv
# text/csv-schema
#
 text/directory
# text/dns
# text/ecmascript
# text/encaprtp
# text/enriched
# text/example
# text/fwdred
# text/grammar-ref-list
text/html	html htm
# text/javascript
```

```
# text/jcr-cnd
# text/markdown
# text/mizar
text/n3	n3
# text/parameters
# text/parityfec
text/plain	txt text conf def list log in
# text/provenance-notation
# text/prs.fallenstein.rst
text/prs.lines.tag	dsc
# text/prs.prop.logic
# text/raptorfec
# text/red
# text/rfc822-headers
text/richtext	rtx
# text/rtf
# text/rtp-enc-aescm128
# text/rtploopback
# text/rtx
text/sgml	sgml sgm
# text/t140
text/tab-separated-values	tsv
text/troff	t tr roff man me ms
text/turtle	ttl
# text/ulpfec
text/uri-list	uri uris urls
text/vcard	vcard
# text/vnd.a
# text/vnd.abc
text/vnd.curl	curl
text/vnd.curl.dcurl	dcurl
text/vnd.curl.mcurl	mcurl
text/vnd.curl.scurl	scurl
# text/vnd.debian.copyright
# text/vnd.dmclientscript
text/vnd.dvb.subtitle	sub
# text/vnd.esmertec.theme-descriptor
text/vnd.fly	fly
text/vnd.fmi.flexstor	flx
text/vnd.graphviz	gv
text/vnd.in3d.3dml	3dml
text/vnd.in3d.spot	spot
#
 text/vnd.iptc.newsml
# text/vnd.iptc.nitf
# text/vnd.latex-z
# text/vnd.motorola.reflex
# text/vnd.ms-mediapackage
```

```
# text/vnd.net2phone.commcenter.command
# text/vnd.radisys.msml-basic-layout
# text/vnd.si.uricatalogue
text/vnd.sun.j2me.app-descriptor  jad
# text/vnd.trolltech.linguist
# text/vnd.wap.si
# text/vnd.wap.sl
text/vnd.wap.wml    wml
text/vnd.wap.wmlscript    wmls
text/x-asm     s asm
text/x-c     c cc cxx cpp h hh dic
text/x-fortran     f for f77 f90
text/x-java-source    java
text/x-nfo     nfo
text/x-opml     opml
text/x-pascal     p pas
text/x-setext     etx
text/x-sfv     sfv
text/x-uuencode     uu
text/x-vcalendar    vcs
text/x-vcard     vcf
# text/xml
# text/xml-external-parsed-entity
# video/1d-interleaved-parityfec
video/3gpp     3gp
# video/3gpp-tt
video/3gpp2     3g2
# video/bmpeg
# video/bt656
# video/celb
# video/dv
# video/encaprtp
#
 video/example
video/h261     h261
video/h263     h263
# video/h263-1998
# video/h263-2000
video/h264     h264
# video/h264-rcdo
# video/h264-svc
# video/h265
# video/iso.segment
video/jpeg     jpgv
# video/jpeg2000
video/jpm     jpm jpgm
video/mj2     mj2 mjp2
# video/mp1s
```

```
# video/mp2p
# video/mp2t
video/mp4     mp4 mp4v mpg4
# video/mp4v-es
video/mpeg     mpeg mpg mpe m1v m2v
# video/mpeg4-generic
# video/mpv
# video/nv
video/ogg     ogv
# video/parityfec
# video/pointer
video/quicktime     qt mov
# video/raptorfec
# video/raw
# video/rtp-enc-aescm128
# video/rtploopback
# video/rtx
# video/smpte292m
# video/ulpfec
# video/vc1
# video/vnd.cctv
video/vnd.dece.hd    uvh uvvh
video/vnd.dece.mobile    uvm uvvm
# video/vnd.dece.mp4
video/vnd.dece.pd    uvp uvvp
video/vnd.dece.sd    uvs uvvs
video/vnd.dece.video    uvv uvvv
# video/vnd.directv.mpeg
# video/vnd.directv.mpeg-tts
# video/vnd.dlna.mpeg-tts
video/vnd.dvb.file    dvb
video/vnd.fvt     fvt
# video/vnd.hns.video
# video/vnd.iptvforum.1dparityfec-1010
#
 video/vnd.iptvforum.1dparityfec-2005
# video/vnd.iptvforum.2dparityfec-1010
# video/vnd.iptvforum.2dparityfec-2005
# video/vnd.iptvforum.ttsavc
# video/vnd.iptvforum.ttsmpeg2
# video/vnd.motorola.video
# video/vnd.motorola.videop
video/vnd.mpegurl    mxu m4u
video/vnd.ms-playready.media.pyv  pyv
# video/vnd.nokia.interleaved-multimedia
# video/vnd.nokia.videovoip
# video/vnd.objectvideo
# video/vnd.radgamettools.bink
```

```
# video/vnd.radgamettools.smacker
# video/vnd.sealed.mpeg1
# video/vnd.sealed.mpeg4
# video/vnd.sealed.swf
# video/vnd.sealedmedia.softseal.mov
video/vnd.uvvu.mp4    uvu uvvu
video/vnd.vivo     viv
# video/vp8
video/webm     webm
video/x-f4v     f4v
video/x-fli     fli
video/x-flv     flv
video/x-m4v     m4v
video/x-matroska    mkv mk3d mks
video/x-mng     mng
video/x-ms-asf     asf asx
video/x-ms-vob     vob
video/x-ms-wm     wm
video/x-ms-wmv     wmv
video/x-ms-wmx     wmx
video/x-ms-wvx     wvx
video/x-msvideo     avi
video/x-sgi-movie    movie
video/x-smv     smv
x-conference/x-cooltalk    ice
```

Found
 in path(s):
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/http/mime.types
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```
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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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*/
/**
```

```
  * Return the web session for the current request. Always guaranteed  to
  * return an instance either matching to the session id requested by the
  * client, or with a new session id either because the client did not
  * specify one or because the underlying session had expired. Use of this
  * method
 does not automatically create a session. See {@link WebSession}
  * for more details.
  */
```

Found in path(s):
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/server/ServerWebExchange.java
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```
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* limitations under the License.
*/
```

Found in path(s):
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/http/server/DelegatingServerHttpResponse.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/multipart/support/StandardServletPartUtils.java
*
 /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/util/ServletContextPropertyUtils.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/method/annotation/RequestParamMapMethodArgumentResolver.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/server/session/DefaultWebSessionManager.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/http/codec/ResourceHttpMessageReader.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/util/UriBuilderFactory.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/filter/CorsFilter.java

* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/http/client/reactive/ClientHttpRequest.java
*
 /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/http/server/reactive/HttpHeadResponseDecorator.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/context/request/WebRequest.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/http/client/reactive/ClientHttpRequestDecorator.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/cors/reactive/UrlBasedCorsConfigurationSource.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/accept/ServletPathExtensionContentNegotiationStrategy.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/client/RestClientException.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/http/client/AbstractClientHttpRequest.java
*
 /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/http/server/DefaultRequestPath.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/http/converter/json/AbstractJsonHttpMessageConverter.java
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Found in path(s):
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/http/server/observation/ServerRequestObservationContext.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/http/codec/multipart/MultipartWriterSupport.java
*
 /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/bind/MissingRequestCookieException.java

* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/http/codec/support/ServerDefaultCodecsImpl.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/service/invoker/HttpMethodArgumentResolver.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/bind/MissingMatrixVariableException.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/http/server/reactive/ReactorNetty2HttpHandlerAdapter.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/http/codec/cbor/KotlinSerializationCborDecoder.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/http/codec/multipart/MultipartUtils.java
*
/opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/http/converter/json/KotlinSerializationJsonHttpMessageConverter.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/http/client/reactive/JdkHttpClientResourceFactory.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/http/converter/xml/Jaxb2CollectionHttpMessageConverter.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/http/codec/json/Jackson2SmileDecoder.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/http/codec/ServerSentEventHttpMessageReader.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/http/codec/json/KotlinSerializationJsonDecoder.java
*
/opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/http/server/reactive/DefaultSslInfo.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/HttpMediaTypeNotAcceptableException.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/cors/UrlBasedCorsConfigurationSource.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/accept/ContentNegotiationManager.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/service/annotation/HttpExchangeReflectiveProcessor.java
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/opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/bind/ServletRequestBindingException.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/bind/annotation/ModelAttribute.java
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* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-
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* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-
jar/org/springframework/web/context/request/RequestContextListener.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-
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/opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-
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* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-
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* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-
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* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-
jar/org/springframework/web/client/IntrospectingClientHttpResponse.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-
jar/org/springframework/web/jsf/DelegatingNavigationHandlerProxy.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-
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jar/org/springframework/http/codec/EncoderHttpMessageWriter.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-
jar/org/springframework/http/server/RequestPath.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-
jar/org/springframework/web/bind/MissingRequestHeaderException.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-
jar/org/springframework/web/context/support/WebApplicationObjectSupport.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-
jar/org/springframework/web/context/ContextCleanupListener.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-
jar/org/springframework/web/util/pattern/SeparatorPathElement.java

*
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* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/jsf/el/SpringBeanFacesELResolver.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/http/converter/feed/RssChannelHttpMessageConverter.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/http/converter/json/GsonFactoryBean.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/context/request/RequestAttributes.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/context/request/AsyncWebRequestInterceptor.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/bind/support/DefaultSessionAttributeStore.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/multipart/MultipartException.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/context/support/ContextExposingHttpServletRequest.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/bind/support/WebArgumentResolver.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/context/request/async/AsyncWebRequest.java
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* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/bind/annotation/RestController.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/method/annotation/SessionStatusMethodArgumentResolver.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/http/client/support/ProxyFactoryBean.java
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* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/server/i18n/LocaleContextResolver.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/method/support/UriComponentsContributor.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/http/codec/multipart/FormFieldPart.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-

jar/org/springframework/web/cors/reactive/CorsProcessor.java
*
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jar/org/springframework/web/multipart/support/ByteArrayMultipartFileEditor.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-
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* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/http/converter/json/SpringHandlerInstantiator.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/context/request/async/TimeoutDeferredResultProcessingInterceptor.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/bind/annotation/SessionAttribute.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/context/request/SessionScope.java
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* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/method/annotation/RequestHeaderMapMethodArgumentResolver.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/bind/annotation/RequestAttribute.java
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* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/filter/CompositeFilter.java
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 /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/http/client/ClientHttpRequestFactory.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/util/WebAppRootListener.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/server/session/WebSessionManager.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/context/request/WebRequestInterceptor.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/context/request/RequestScope.java
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* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/context/annotation/RequestScope.java
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org.springframework.web.server.adapter.WebHttpHandlerBuilder$SpringWebBlockHoundIntegration

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* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/http/codec/cbor/Jackson2CborDecoder.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/context/support/ServletContextScope.java
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* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/http/client/support/BasicAuthenticationInterceptor.java
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* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/multipart/support/MultipartResolutionDelegate.java
* /opt/cola/permits/2295343133_1733919032.0631444/0/spring-web-6-1-15-sources-1-jar/org/springframework/web/method/HandlerMethod.java
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1.5611 bridgeutils 1.37.0-r8

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jseward@bzip.org
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*

/opt/cola/permits/2295980870_1733957206.5933187/0/netty-buffer-4-1-110-final-sources-1-jar/io/netty/buffer/PooledDuplicatedByteBuf.java
* /opt/cola/permits/2295980870_1733957206.5933187/0/netty-buffer-4-1-110-final-sources-1-jar/io/netty/buffer/PooledSlicedByteBuf.java
* /opt/cola/permits/2295980870_1733957206.5933187/0/netty-buffer-4-1-110-final-sources-1-jar/io/netty/buffer/AbstractPooledDerivedByteBuf.java
* /opt/cola/permits/2295980870_1733957206.5933187/0/netty-buffer-4-1-110-final-sources-1-jar/io/netty/buffer/AdvancedLeakAwareCompositeByteBuf.java
* /opt/cola/permits/2295980870_1733957206.5933187/0/netty-buffer-4-1-110-final-sources-1-jar/io/netty/buffer/UnpooledUnsafeNoCleanerDirectByteBuf.java
* /opt/cola/permits/2295980870_1733957206.5933187/0/netty-buffer-4-1-110-final-sources-1-jar/io/netty/buffer/AbstractUnpooledSlicedByteBuf.java
* /opt/cola/permits/2295980870_1733957206.5933187/0/netty-buffer-4-1-110-final-sources-1-jar/io/netty/buffer/WrappedCompositeByteBuf.java
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* /opt/cola/permits/2295980870_1733957206.5933187/0/netty-buffer-4-1-110-final-sources-1-jar/io/netty/buffer/search/SearchProcessor.java
*
/opt/cola/permits/2295980870_1733957206.5933187/0/netty-buffer-4-1-110-final-sources-1-jar/io/netty/buffer/search/MultiSearchProcessor.java
* /opt/cola/permits/2295980870_1733957206.5933187/0/netty-buffer-4-1-110-final-sources-1-jar/io/netty/buffer/search/AbstractSearchProcessorFactory.java
* /opt/cola/permits/2295980870_1733957206.5933187/0/netty-buffer-4-1-110-final-sources-1-jar/io/netty/buffer/search/MultiSearchProcessorFactory.java
* /opt/cola/permits/2295980870_1733957206.5933187/0/netty-buffer-4-1-110-final-sources-1-jar/io/netty/buffer/search/AbstractMultiSearchProcessorFactory.java
* /opt/cola/permits/2295980870_1733957206.5933187/0/netty-buffer-4-1-110-final-sources-1-jar/io/netty/buffer/search/SearchProcessorFactory.java

* /opt/cola/permits/2295980870_1733957206.5933187/0/netty-buffer-4-1-110-final-sources-1-jar/io/netty/buffer/search/AhoCorasicSearchProcessorFactory.java
* /opt/cola/permits/2295980870_1733957206.5933187/0/netty-buffer-4-1-110-final-sources-1-jar/io/netty/buffer/search/KmpSearchProcessorFactory.java
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* /opt/cola/permits/2295980870_1733957206.5933187/0/netty-buffer-4-1-110-final-sources-1-jar/io/netty/buffer/IntPriorityQueue.java
* /opt/cola/permits/2295980870_1733957206.5933187/0/netty-buffer-4-1-110-final-sources-1-jar/io/netty/buffer/LongLongHashMap.java
* /opt/cola/permits/2295980870_1733957206.5933187/0/netty-buffer-4-1-110-final-sources-1-jar/io/netty/buffer/SizeClasses.java
* /opt/cola/permits/2295980870_1733957206.5933187/0/netty-buffer-4-1-110-final-sources-1-jar/io/netty/buffer/SizeClassesMetric.java
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* /opt/cola/permits/2295980870_1733957206.5933187/0/netty-buffer-4-1-110-final-sources-1-

jar/io/netty/buffer/PooledByteBufAllocator.java
* /opt/cola/permits/2295980870_1733957206.5933187/0/netty-buffer-4-1-110-final-sources-1-jar/io/netty/buffer/ByteBuf.java
*
/opt/cola/permits/2295980870_1733957206.5933187/0/netty-buffer-4-1-110-final-sources-1-jar/io/netty/buffer/UnpooledDirectByteBuf.java
* /opt/cola/permits/2295980870_1733957206.5933187/0/netty-buffer-4-1-110-final-sources-1-jar/io/netty/buffer/SlicedByteBuf.java
* /opt/cola/permits/2295980870_1733957206.5933187/0/netty-buffer-4-1-110-final-sources-1-jar/io/netty/buffer/PoolSubpage.java
* /opt/cola/permits/2295980870_1733957206.5933187/0/netty-buffer-4-1-110-final-sources-1-jar/io/netty/buffer/PooledByteBuf.java
* /opt/cola/permits/2295980870_1733957206.5933187/0/netty-buffer-4-1-110-final-sources-1-jar/io/netty/buffer/SwappedByteBuf.java
* /opt/cola/permits/2295980870_1733957206.5933187/0/netty-buffer-4-1-110-final-sources-1-jar/io/netty/buffer/package-info.java
* /opt/cola/permits/2295980870_1733957206.5933187/0/netty-buffer-4-1-110-final-sources-1-jar/io/netty/buffer/UnpooledHeapByteBuf.java
*
/opt/cola/permits/2295980870_1733957206.5933187/0/netty-buffer-4-1-110-final-sources-1-jar/io/netty/buffer/AbstractByteBuf.java
* /opt/cola/permits/2295980870_1733957206.5933187/0/netty-buffer-4-1-110-final-sources-1-jar/io/netty/buffer/PoolThreadCache.java
* /opt/cola/permits/2295980870_1733957206.5933187/0/netty-buffer-4-1-110-final-sources-1-jar/io/netty/buffer/DuplicatedByteBuf.java
* /opt/cola/permits/2295980870_1733957206.5933187/0/netty-buffer-4-1-110-final-sources-1-jar/io/netty/buffer/PoolChunkList.java
* /opt/cola/permits/2295980870_1733957206.5933187/0/netty-buffer-4-1-110-final-sources-1-jar/io/netty/buffer/ByteBufAllocator.java
* /opt/cola/permits/2295980870_1733957206.5933187/0/netty-buffer-4-1-110-final-sources-1-jar/io/netty/buffer/ReadOnlyByteBuf.java
* /opt/cola/permits/2295980870_1733957206.5933187/0/netty-buffer-4-1-110-final-sources-1-jar/io/netty/buffer/UnpooledUnsafeDirectByteBuf.java
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* /opt/cola/permits/2295980870_1733957206.5933187/0/netty-buffer-4-1-110-final-sources-1-jar/io/netty/buffer/ByteBufInputStream.java
* /opt/cola/permits/2295980870_1733957206.5933187/0/netty-buffer-4-1-110-final-sources-1-jar/io/netty/buffer/AbstractByteBufAllocator.java
* /opt/cola/permits/2295980870_1733957206.5933187/0/netty-buffer-4-1-110-final-sources-1-jar/io/netty/buffer/ByteBufUtil.java
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* /opt/cola/permits/2295980870_1733957206.5933187/0/netty-buffer-4-1-110-final-sources-1-jar/io/netty/buffer/PoolArena.java
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* /opt/cola/permits/2295980870_1733957206.5933187/0/netty-buffer-4-1-110-final-sources-1-jar/io/netty/buffer/DefaultByteBufHolder.java
* /opt/cola/permits/2295980870_1733957206.5933187/0/netty-buffer-4-1-110-final-sources-1-jar/io/netty/buffer/SimpleLeakAwareByteBuf.java
* /opt/cola/permits/2295980870_1733957206.5933187/0/netty-buffer-4-1-110-final-sources-1-jar/io/netty/buffer/WrappedByteBuf.java
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* /opt/cola/permits/2295980870_1733957206.5933187/0/netty-buffer-4-1-110-final-sources-1-jar/io/netty/buffer/UnreleasableByteBuf.java
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* /opt/cola/permits/2295980870_1733957206.5933187/0/netty-buffer-4-1-110-final-sources-1-jar/io/netty/buffer/UnpooledDuplicatedByteBuf.java
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* /opt/cola/permits/2295980870_1733957206.5933187/0/netty-buffer-4-1-110-final-sources-1-jar/io/netty/buffer/ByteBufConvertible.java

1.5613 protobuf-java-util 3.25.5

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Manifest-Version: 1.0
Automatic-Module-Name: com.google.protobuf.util
Bnd-LastModified: 1726689423746
Bundle-Description: Utilities for Protocol Buffers
Bundle-DocURL: https://developers.google.com/protocol-buffers/
Bundle-License: https://opensource.org/licenses/BSD-3-Clause
Bundle-ManifestVersion: 2
Bundle-Name: Protocol Buffers [Util]
Bundle-SymbolicName: com.google.protobuf.util
Bundle-Version: 3.25.5
Export-Package: com.google.protobuf.util;version="3.25.5";uses:="com.goo
gle.protobuf,javax.annotation"
Import-Package: com.google.common.base;version="[32.0,33)",com.google.co
mmon.io;version="[32.0,33)",com.google.common.math;version="[32.0,33)",
com.google.common.primitives;version="[32.0,33)",com.google.gson;versio
n="[2.8,3)",com.google.gson.stream;version="[2.8,3)",com.google.protobu
f,javax.annotation;version="[3.0,4)",sun.misc;resolution:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool:
 Bnd-6.4.0.202211291949
Created-By: mergejars

Found in path(s):
* /opt/cola/permits/2296001206_1733958211.4356208/0/protobuf-java-util-3-25-5-jar/META-INF/MANIFEST.MF

1.5614 kustomize-api 0.18.0

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```
package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
 Plugin     string
 Option     string
 Severity   string // 'deprecated', 'removed', or 'unsupported'
 ReplacedBy string
 Additional string
```

```
 Version    string
}

func (n *Notice) ToString() string {
 s := ""
 if n.Option == "" {
  s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
 } else {
  s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
 }
 if n.Severity == SevUnsupported {
  s += "is unsupported by this migration tool in " + n.Version + "."
 } else if n.Severity == SevNewDefault {
  s += "is added as a default in " + n.Version + "."
 } else {
  s += "is " + n.Severity + " in " + n.Version + "."
 }
 if n.ReplacedBy != "" {
  s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
 }
 if n.Additional != "" {
  s += " " + n.Additional
 }
 return s
}

const (
 // The following statuses are used to indicate the state of support/deprecation in a given release.
 SevDeprecated  = "deprecated"
  // deprecated, but still completely functional
 SevIgnored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
 SevRemoved     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present
in the Corefile
 SevNewDefault  = "newdefault"  // added to the default corefile.  CoreDNS may not function properly if it is not
present in the corefile.
 SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool

 // The following statuses are used for selecting/filtering notifications
 SevAll = "all" // show all statuses
)
```

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==========
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==========
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//
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 Name string `json:"name,omitempty"`
 URL string `json:"url,omitempty"`
}
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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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==========
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==========
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package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
 Plugin     string
 Option     string
 Severity   string // 'deprecated', 'removed', or 'unsupported'
 ReplacedBy string
 Additional string
 Version    string
}

func (n *Notice) ToString() string {
 s := ""
 if n.Option == "" {
  s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
 } else {
  s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
 }
 if n.Severity == SevUnsupported {
  s += "is unsupported by this migration tool in " + n.Version + "."
 } else if n.Severity == SevNewDefault {
  s += "is added as a default in " + n.Version + "."
 } else {
  s += "is " + n.Severity + " in " + n.Version + "."
 }
 if n.ReplacedBy != "" {
  s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
 }
 if n.Additional != "" {
  s += " " + n.Additional
 }
 return s
}

const (
 // The following statuses are used to indicate the state of support/deprecation in a given release.
 SevDeprecated  = "deprecated"
```

```
  // deprecated, but still completely functional
 SevIgnored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
 SevRemoved     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present
in the Corefile
 SevNewDefault  = "newdefault"  // added to the default corefile.  CoreDNS may not function properly if it is not
present in the corefile.
 SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool

 // The following statuses are used for selecting/filtering notifications
 SevAll = "all" // show all statuses
)
```

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==========
The common/types/pb/equal.go modification of proto.Equal logic
==========
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//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL string `json:"url,omitempty"`

}
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Protocol Buffers for Go with Gadgets

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procfs provides functions to retrieve system, kernel and process
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```
package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
 Plugin     string
 Option     string
 Severity   string // 'deprecated', 'removed', or 'unsupported'
 ReplacedBy string
 Additional string
 Version    string
}

func (n *Notice) ToString() string {
 s := ""
 if n.Option == "" {
```

```
 s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
 } else {
 s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
 }
 if n.Severity == SevUnsupported {
 s += "is unsupported by this migration tool in " + n.Version + "."
 } else if n.Severity == SevNewDefault {
 s += "is added as a default in " + n.Version + "."
 } else {
 s += "is " + n.Severity + " in " + n.Version + "."
 }
 if n.ReplacedBy != "" {
 s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
 }
 if n.Additional != "" {
 s += " " + n.Additional
 }
 return s
}

const (
 // The following statuses are used to indicate the state of support/deprecation in a given release.
 SevDeprecated  = "deprecated"
  // deprecated, but still completely functional
 SevIgnored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
 SevRemoved     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present
in the Corefile
 SevNewDefault  = "newdefault"  // added to the default corefile.  CoreDNS may not function properly if it is not
present in the corefile.
 SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool

 // The following statuses are used for selecting/filtering notifications
 SevAll = "all" // show all statuses
)
```

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==========
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//
// For more information: http://goo.gl/8us55a#licenseObject
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 Name string `json:"name,omitempty"`
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Protocol Buffers for Go with Gadgets

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==========
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* /opt/cola/permits/2296100747_1733967098.283571/0/netty-buffer-4-1-110-final-sources-2-jar/io/netty/buffer/UnpooledByteBufAllocator.java
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1.5619 jackson-datatype-jdk8 2.15.4

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1.5621 jetcd-grpc 0.8.4

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1.5622 ada 2.9.2-r1

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1.5623 simdutf 5.6.3-r0

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1.5624 simdjson 3.10.1-r0

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* /opt/cola/permits/2297272227_1734046717.5654452/0/netty-buffer-4-1-109-final-sources-4-jar/io/netty/buffer/ByteBufHolder.java
* /opt/cola/permits/2297272227_1734046717.5654452/0/netty-buffer-4-1-109-final-sources-4-jar/io/netty/buffer/PooledUnsafeDirectByteBuf.java
* /opt/cola/permits/2297272227_1734046717.5654452/0/netty-buffer-4-1-109-final-sources-4-jar/io/netty/buffer/ReadOnlyUnsafeDirectByteBuf.java
* /opt/cola/permits/2297272227_1734046717.5654452/0/netty-buffer-4-1-109-final-sources-4-jar/io/netty/buffer/SimpleLeakAwareByteBuf.java
* /opt/cola/permits/2297272227_1734046717.5654452/0/netty-buffer-4-1-109-final-sources-4-jar/io/netty/buffer/AbstractDerivedByteBuf.java
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/opt/cola/permits/2297272227_1734046717.5654452/0/netty-buffer-4-1-109-final-sources-4-jar/io/netty/buffer/WrappedByteBuf.java
* /opt/cola/permits/2297272227_1734046717.5654452/0/netty-buffer-4-1-109-final-sources-4-jar/io/netty/buffer/ByteBufProcessor.java
* /opt/cola/permits/2297272227_1734046717.5654452/0/netty-buffer-4-1-109-final-sources-4-jar/io/netty/buffer/FixedCompositeByteBuf.java
* /opt/cola/permits/2297272227_1734046717.5654452/0/netty-buffer-4-1-109-final-sources-4-jar/io/netty/buffer/AbstractReferenceCountedByteBuf.java
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* /opt/cola/permits/2297272227_1734046717.5654452/0/netty-buffer-4-1-109-final-sources-4-jar/META-INF/native-image/io.netty/netty-buffer/native-image.properties
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* /opt/cola/permits/2297272227_1734046717.5654452/0/netty-buffer-4-1-109-final-sources-4-jar/io/netty/buffer/UnsafeHeapSwappedByteBuf.java
* /opt/cola/permits/2297272227_1734046717.5654452/0/netty-buffer-4-1-109-final-sources-4-jar/io/netty/buffer/UnsafeDirectSwappedByteBuf.java
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1.5630 servlet-api 6.1.0

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*/
[subs="normal"]
....
Specification: {doctitle}

Version: {revnumber}

ifeval::["{revremark}" != ""]
Status: {revremark}
endif::[]
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1.5631 cpp-13-x86-64-linux-gnu 13.3.0-6ubuntu2~24.04

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1.5632 g++-13-x86-64-linux-gnu 13.3.0-6ubuntu2~24.04

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This is the Debian GNU/Linux prepackaged version of the GNU compiler collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C, Objective-C++, and Modula-2 compilers, documentation, and support libraries. In addition, Debian provides the gm2 compiler, either in the same source package, or built from a separate same source package. Packaging is done by the Debian GCC Maintainers <debian-gcc@lists.debian.org>, with sources obtained from:

```
ftp://gcc.gnu.org/pub/gcc/releases/  (for full releases)
svn://gcc.gnu.org/svn/gcc/           (for prereleases)
ftp://sourceware.org/pub/newlib/     (for newlib)
git://git.savannah.gnu.org/gm2.git   (for Modula-2)
```

The current gcc-13 source package is taken from the git gcc-13-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

```
Language       Compiler package  Library package    Documentation
-----------------------------------------------------------------------------
Ada
               gnat-13           libgnat-13         gnat-13-doc
C              gcc-13                               gcc-13-doc
C++            g++-13            libstdc++6         libstdc++6-13-doc
D              gdc-13
Fortran 95     gfortran-13       libgfortran5       gfortran-13-doc
Go             gccgo-13          libgo0
Objective C    gobjc-13          libobjc4
Objective C++  gobjc++-13
Modula-2       gm2-13            libgm2
```

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

```
Language  Sources      Development   Debugging          Position-Independent
```

C++ libstdc++6-13-dbg libstdc++6-13-pic
D libphobos-13-dev

Additional packages include:

All languages:
libgcc1, libgcc2, libgcc4 GCC intrinsics (platform-dependent)
gcc-13-base
Base files common to all compilers
gcc-13-soft-float Software floating point (ARM only)
gcc-13-source The sources with patches

Ada:
libgnat-util13-dev, libgnat-util13 GNAT version library

C:
cpp-13, cpp-13-doc GNU C Preprocessor
libssp0-dev, libssp0 GCC stack smashing protection library
libquadmath0 Math routines for the __float128 type
fixincludes Fix non-ANSI header files

C, C++ and Fortran 95:
libgomp1-dev, libgomp1 GCC OpenMP (GOMP) support library
libitm1-dev, libitm1 GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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  gcc/tsystem.h, gcc/typeclass.h).
- libatomic
- libdecnumber
- libgomp
- libitm
- libssp
- libstdc++-v3
- libobjc
- libgfortran
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- Various config files in gcc/config/
  used in runtime libraries.
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Version 3.1, 31 March 2009

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D:

gdc-13	GNU D Compiler
libphobos-13-dev	D standard runtime library

The D source package is made up of the following components.

The D front-end for GCC:
- d/*

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The DMD Compiler implementation of the D programming language:
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The Phobos standard runtime library:
- d/phobos/*

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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Otherwise, if the work is a derivative of the Library, you may distribute the object

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Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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Version 3, 29 June 2007

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(23) - C-SKY Microsystems (csky-* targets)

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(24) - RISC-V Semihosting (riscv-* targets)

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1.5635 g++-13 13.3.0-6ubuntu2~24.04

1.5635.1 Available under license :

This is the Debian GNU/Linux prepackaged version of the GNU compiler
collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C,
Objective-C++, and Modula-2 compilers, documentation, and support
libraries. In addition, Debian provides the gm2 compiler, either in
the same source package, or built from a separate same source package.
Packaging is done by the Debian GCC Maintainers
<debian-gcc@lists.debian.org>, with sources obtained from:

 ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)
 svn://gcc.gnu.org/svn/gcc/ (for prereleases)
 ftp://sourceware.org/pub/newlib/ (for newlib)
 git://git.savannah.gnu.org/gm2.git (for Modula-2)

The current gcc-13 source package is taken from the git gcc-13-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language,
library, and documentation as follows:

Language Compiler package Library package Documentation

Ada

```
          gnat-13         libgnat-13         gnat-13-doc
C             gcc-13                          gcc-13-doc
C++           g++-13          libstdc++6        libstdc++6-13-doc
D             gdc-13
Fortran 95    gfortran-13     libgfortran5      gfortran-13-doc
Go            gccgo-13        libgo0
Objective C   gobjc-13        libobjc4
Objective C++ gobjc++-13
Modula-2      gm2-13          libgm2
```

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

```
Language  Sources      Development   Debugging           Position-Independent
-------------------------------------------------------------------------------
C++                                  libstdc++6-13-dbg  libstdc++6-13-pic
D         libphobos-13-dev
```

Additional packages include:

All languages:

```
libgcc1, libgcc2, libgcc4       GCC intrinsics (platform-dependent)
gcc-13-base
                Base files common to all compilers
gcc-13-soft-float             Software floating point (ARM only)
gcc-13-source                 The sources with patches
```

Ada:

```
libgnat-util13-dev, libgnat-util13   GNAT version library
```

C:

```
cpp-13, cpp-13-doc            GNU C Preprocessor
libssp0-dev, libssp0          GCC stack smashing protection library
libquadmath0                  Math routines for the __float128 type
fixincludes                   Fix non-ANSI header files
```

C, C++ and Fortran 95:

```
libgomp1-dev, libgomp1  GCC OpenMP (GOMP) support library
libitm1-dev, libitm1  GNU Transactional Memory Library
```

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can also run 64-bit code, Debian provides additional
 packages with names
beginning with 'lib64' instead of 'lib'. These packages contain 64-bit

versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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- libatomic
- libdecnumber
- libgomp
- libitm
- libssp
- libstdc++-v3
- libobjc
- libgfortran

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- Various config files in gcc/config/
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libquadmath/math/isinfq.c:
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Change for long double by Jakub Jelinek <jj@ultra.linux.cz>
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copysignq.c, coshq.c, cosq.c, erfq.c, fabsq.c, finiteq.c, floorq.c,
fmodq.c, frexpq.c, hypotq.c, ilogbq.c, isnanq.c, jnq.c, ldexpq.c,
logbq.c, modfq.c, nearbyintq.c,
nextafterq.c, powq.c, remainderq.c,
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D:

gdc-13	GNU D Compiler
libphobos-13-dev	D standard runtime library

The D source package is made up of the following components.

The D front-end for GCC:
- d/*

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The Zlib data compression library:
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The Phobos standard runtime library:
- d/phobos/*

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1.5636 libstdc++-13-dev 13.3.0-6ubuntu2~24.04

1.5636.1 Available under license :

This is the Debian GNU/Linux prepackaged version of the GNU compiler collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C, Objective-C++, and Modula-2 compilers, documentation, and support libraries. In addition, Debian provides the gm2 compiler, either in the same source package, or built from a separate same source package. Packaging is done by the Debian GCC Maintainers <debian-gcc@lists.debian.org>, with sources obtained from:

```
ftp://gcc.gnu.org/pub/gcc/releases/  (for full releases)
svn://gcc.gnu.org/svn/gcc/           (for prereleases)
ftp://sourceware.org/pub/newlib/     (for newlib)
git://git.savannah.gnu.org/gm2.git   (for Modula-2)
```

The current gcc-13 source package is taken from the git gcc-13-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

Language	Compiler package	Library package	Documentation
Ada	gnat-13	libgnat-13	gnat-13-doc
C	gcc-13		gcc-13-doc
C++	g++-13	libstdc++6	libstdc++6-13-doc
D	gdc-13		
Fortran 95	gfortran-13	libgfortran5	gfortran-13-doc
Go	gccgo-13	libgo0	
Objective C	gobjc-13	libobjc4	
Objective C++	gobjc++-13		
Modula-2	gm2-13	libgm2	

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

Language	Sources	Development	Debugging	Position-Independent
C++			libstdc++6-13-dbg	libstdc++6-13-pic
D		libphobos-13-dev		

Additional packages include:

All languages:
libgcc1, libgcc2, libgcc4 GCC intrinsics (platform-dependent)
gcc-13-base

Base files common to all compilers
gcc-13-soft-float Software floating point (ARM only)
gcc-13-source The sources with patches

Ada:
libgnat-util13-dev, libgnat-util13 GNAT version library

C:
cpp-13, cpp-13-doc GNU C Preprocessor
libssp0-dev, libssp0 GCC stack smashing protection library
libquadmath0 Math routines for the __float128 type
fixincludes Fix non-ANSI header files

C, C++ and Fortran 95:
libgomp1-dev, libgomp1 GCC OpenMP (GOMP) support library
libitm1-dev, libitm1 GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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- libatomic
- libdecnumber
- libgomp
- libitm
- libssp
- libstdc++-v3
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- libgfortran
- The libgnat-13 Ada support library and libgnat-util13 library.
- Various config files in gcc/config/ used in runtime libraries.
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D:
gdc-13 GNU D Compiler
libphobos-13-dev D standard runtime library

The D source package is made up of the following components.

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The Zlib data compression library:
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The Phobos standard runtime library:
- d/phobos/*

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1.5637 cpp 13.3.0-6ubuntu2~24.04

1.5637.1 Available under license :

This is the Debian GNU/Linux prepackaged version of the GNU compiler
collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C,
Objective-C++, and Modula-2 compilers, documentation, and support
libraries. In addition, Debian provides the gm2 compiler, either in
the same source package, or built from a separate same source package.
Packaging is done by the Debian GCC Maintainers
<debian-gcc@lists.debian.org>, with sources obtained from:

 ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)
 svn://gcc.gnu.org/svn/gcc/ (for prereleases)
 ftp://sourceware.org/pub/newlib/ (for newlib)
 git://git.savannah.gnu.org/gm2.git (for Modula-2)

The current gcc-13 source package is taken from the git gcc-13-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language,
library, and documentation as follows:

Language Compiler package Library package Documentation

Ada

	gnat-13	libgnat-13	gnat-13-doc
C	gcc-13		gcc-13-doc
C++	g++-13	libstdc++6	libstdc++6-13-doc
D	gdc-13		
Fortran 95	gfortran-13	libgfortran5	gfortran-13-doc
Go	gccgo-13	libgo0	
Objective C	gobjc-13	libobjc4	
Objective C++	gobjc++-13		
Modula-2	gm2-13	libgm2	

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

Language	Sources	Development	Debugging	Position-Independent
C++			libstdc++6-13-dbg	libstdc++6-13-pic
D	libphobos-13-dev			

Additional packages include:

All languages:

libgcc1, libgcc2, libgcc4	GCC intrinsics (platform-dependent)
gcc-13-base	Base files common to all compilers
gcc-13-soft-float	Software floating point (ARM only)
gcc-13-source	The sources with patches

Ada:

libgnat-util13-dev, libgnat-util13	GNAT version library

C:

cpp-13, cpp-13-doc	GNU C Preprocessor
libssp0-dev, libssp0	GCC stack smashing protection library
libquadmath0	Math routines for the __float128 type
fixincludes	Fix non-ANSI header files

C, C++ and Fortran 95:

libgomp1-dev, libgomp1	GCC OpenMP (GOMP) support library
libitm1-dev, libitm1	GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit

versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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- libatomic
- libdecnumber
- libgomp
- libitm
- libssp
- libstdc++-v3
- libobjc
- libgfortran

- The libgnat-13 Ada support library and libgnat-util13 library.
- Various config files in gcc/config/
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- libvtv

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logbq.c, modfq.c, nearbyintq.c,
nextafterq.c, powq.c, remainderq.c,
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D:

gdc-13	GNU D Compiler
libphobos-13-dev	D standard runtime library

The D source package is made up of the following components.

The D front-end for GCC:
- d/*

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The DMD Compiler implementation of the D programming language:
- d/dmd/*

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The Zlib data compression library:
- d/phobos/etc/c/zlib/*

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- d/phobos/*

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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iconv (Charset Conversion Library) v2.0

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1.5639 cpp-13 13.3.0-6ubuntu2~24.04

1.5639.1 Available under license :

This is the Debian GNU/Linux prepackaged version of the GNU compiler
collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C,
Objective-C++, and Modula-2 compilers, documentation, and support
libraries. In addition, Debian provides the gm2 compiler, either in
the same source package, or built from a separate same source package.
Packaging is done by the Debian GCC Maintainers
<debian-gcc@lists.debian.org>, with sources obtained from:

ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)
svn://gcc.gnu.org/svn/gcc/ (for prereleases)
ftp://sourceware.org/pub/newlib/ (for newlib)
git://git.savannah.gnu.org/gm2.git (for Modula-2)

The current gcc-13 source package is taken from the git gcc-13-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language,
library, and documentation as follows:

Language	Compiler package	Library package	Documentation
Ada	gnat-13	libgnat-13	gnat-13-doc
C	gcc-13		gcc-13-doc
C++	g++-13	libstdc++6	libstdc++6-13-doc
D	gdc-13		
Fortran 95	gfortran-13	libgfortran5	gfortran-13-doc
Go	gccgo-13	libgo0	
Objective C	gobjc-13	libobjc4	
Objective C++	gobjc++-13		
Modula-2	gm2-13	libgm2	

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

Language	Sources	Development	Debugging	Position-Independent
C++		libstdc++6-13-dbg	libstdc++6-13-pic	
D	libphobos-13-dev			

Additional packages include:

All languages:

libgcc1, libgcc2, libgcc4	GCC intrinsics (platform-dependent)
gcc-13-base	Base files common to all compilers
gcc-13-soft-float	Software floating point (ARM only)
gcc-13-source	The sources with patches

Ada:

libgnat-util13-dev, libgnat-util13	GNAT version library

C:

cpp-13, cpp-13-doc	GNU C Preprocessor
libssp0-dev, libssp0	GCC stack smashing protection library
libquadmath0	Math routines for the __float128 type
fixincludes	Fix non-ANSI header files

C, C++ and Fortran 95:

libgomp1-dev, libgomp1	GCC OpenMP (GOMP) support library
libitm1-dev, libitm1	GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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  gcc/tsystem.h, gcc/typeclass.h).
- libatomic
- libdecnumber
- libgomp
- libitm
- libssp
- libstdc++-v3
- libobjc
- libgfortran
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- Various config files in gcc/config/
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D:

gdc-13	GNU D Compiler
libphobos-13-dev	D standard runtime library

The D source package is made up of the following components.

The D front-end for GCC:
- d/*

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The DMD Compiler implementation of the D programming language:
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The Phobos standard runtime library:
- d/phobos/*

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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mach_override	lib/interception/mach_override

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at revision 3a0bb77429bd3a61596f5e8a3172445844342120

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* /opt/cola/permits/2298307765_1734102192.6502047/0/flyway-core-10-17-0-sources-jar/org/flywaydb/core/internal/configuration/models/ResolvedEnvironment.java
* /opt/cola/permits/2298307765_1734102192.6502047/0/flyway-core-10-17-0-sources-jar/org/flywaydb/core/api/output/CleanResult.java
* /opt/cola/permits/2298307765_1734102192.6502047/0/flyway-core-10-17-0-sources-jar/org/flywaydb/core/internal/scanner/classpath/FileSystemClassPathLocationScanner.java
* /opt/cola/permits/2298307765_1734102192.6502047/0/flyway-core-10-17-0-sources-jar/org/flywaydb/core/api/resource/Resource.java
* /opt/cola/permits/2298307765_1734102192.6502047/0/flyway-core-10-17-0-sources-jar/org/flywaydb/core/extensibility/ConfigurationProvider.java
*
/opt/cola/permits/2298307765_1734102192.6502047/0/flyway-core-10-17-0-sources-jar/org/flywaydb/core/api/migration/baseline/BaselineMigrationResolver.java
* /opt/cola/permits/2298307765_1734102192.6502047/0/flyway-core-10-17-0-sources-jar/org/flywaydb/core/internal/resolver/script/ScriptMigrationResolver.java
* /opt/cola/permits/2298307765_1734102192.6502047/0/flyway-core-10-17-0-sources-jar/org/flywaydb/core/api/output/MigrateErrorResult.java
* /opt/cola/permits/2298307765_1734102192.6502047/0/flyway-core-10-17-0-sources-jar/org/flywaydb/core/internal/logging/javautil/JavaUtilLogCreator.java
* /opt/cola/permits/2298307765_1734102192.6502047/0/flyway-core-10-17-0-sources-

jar/org/flywaydb/core/experimental/schemahistory/SchemaHistoryModel.java
* /opt/cola/permits/2298307765_1734102192.6502047/0/flyway-core-10-17-0-sources-jar/org/flywaydb/core/internal/database/InsertRowLock.java
* /opt/cola/permits/2298307765_1734102192.6502047/0/flyway-core-10-17-0-sources-jar/org/flywaydb/core/internal/util/BomStrippingReader.java
*
/opt/cola/permits/2298307765_1734102192.6502047/0/flyway-core-10-17-0-sources-jar/org/flywaydb/core/internal/scanner/classpath/ClassPathLocationScanner.java
* /opt/cola/permits/2298307765_1734102192.6502047/0/flyway-core-10-17-0-sources-jar/org/flywaydb/core/api/output/OperationResultBase.java
* /opt/cola/permits/2298307765_1734102192.6502047/0/flyway-core-10-17-0-sources-jar/org/flywaydb/core/internal/resource/ResourceNameValidator.java
* /opt/cola/permits/2298307765_1734102192.6502047/0/flyway-core-10-17-0-sources-jar/org/flywaydb/core/internal/sqlscript/SqlScriptExecutorFactory.java
* /opt/cola/permits/2298307765_1734102192.6502047/0/flyway-core-10-17-0-sources-jar/org/flywaydb/core/internal/reports/json/HtmlResultDeserializer.java
* /opt/cola/permits/2298307765_1734102192.6502047/0/flyway-core-10-17-0-sources-jar/org/flywaydb/core/internal/authentication/ExternalAuthPropertiesProvider.java
* /opt/cola/permits/2298307765_1734102192.6502047/0/flyway-core-10-17-0-sources-jar/org/flywaydb/core/internal/util/StringUtils.java
*
/opt/cola/permits/2298307765_1734102192.6502047/0/flyway-core-10-17-0-sources-jar/org/flywaydb/core/internal/scanner/classpath/ClassPathScanner.java
* /opt/cola/permits/2298307765_1734102192.6502047/0/flyway-core-10-17-0-sources-jar/org/flywaydb/core/internal/util/HtmlUtils.java
* /opt/cola/permits/2298307765_1734102192.6502047/0/flyway-core-10-17-0-sources-jar/org/flywaydb/core/internal/proprietaryStubs/CommandExtensionStub.java
* /opt/cola/permits/2298307765_1734102192.6502047/0/flyway-core-10-17-0-sources-jar/org/flywaydb/core/internal/resolver/ChecksumCalculator.java
* /opt/cola/permits/2298307765_1734102192.6502047/0/flyway-core-10-17-0-sources-jar/org/flywaydb/core/internal/parser/Statement.java
* /opt/cola/permits/2298307765_1734102192.6502047/0/flyway-core-10-17-0-sources-jar/org/flywaydb/core/internal/clazz/NoopClassProvider.java
* /opt/cola/permits/2298307765_1734102192.6502047/0/flyway-core-10-17-0-sources-jar/org/flywaydb/core/internal/jdbc/StatementInterceptor.java
*
/opt/cola/permits/2298307765_1734102192.6502047/0/flyway-core-10-17-0-sources-jar/org/flywaydb/core/internal/jdbc/DriverDataSource.java
* /opt/cola/permits/2298307765_1734102192.6502047/0/flyway-core-10-17-0-sources-jar/org/flywaydb/core/internal/parser/Parser.java
* /opt/cola/permits/2298307765_1734102192.6502047/0/flyway-core-10-17-0-sources-jar/org/flywaydb/core/internal/callback/SqlScriptCallbackFactory.java
* /opt/cola/permits/2298307765_1734102192.6502047/0/flyway-core-10-17-0-sources-jar/org/flywaydb/core/internal/parser/PeekingReader.java
* /opt/cola/permits/2298307765_1734102192.6502047/0/flyway-core-10-17-0-sources-jar/org/flywaydb/core/internal/scanner/classpath/jboss/JBossVFSv3ClassPathLocationScanner.java
* /opt/cola/permits/2298307765_1734102192.6502047/0/flyway-core-10-17-0-sources-jar/org/flywaydb/core/internal/callback/CallbackExecutor.java

* /opt/cola/permits/2298307765_1734102192.6502047/0/flyway-core-10-17-0-sources-jar/org/flywaydb/core/internal/database/base/Schema.java
*
 /opt/cola/permits/2298307765_1734102192.6502047/0/flyway-core-10-17-0-sources-jar/org/flywaydb/core/internal/logging/buffered/BufferedLog.java
* /opt/cola/permits/2298307765_1734102192.6502047/0/flyway-core-10-17-0-sources-jar/org/flywaydb/core/internal/scanner/classpath/JarFileClassPathLocationScanner.java
* /opt/cola/permits/2298307765_1734102192.6502047/0/flyway-core-10-17-0-sources-jar/org/flywaydb/core/api/logging/LogCreator.java
* /opt/cola/permits/2298307765_1734102192.6502047/0/flyway-core-10-17-0-sources-jar/org/flywaydb/core/internal/command/package-info.java

1.5645 dotnetnuke-instrumentation 2.3.0

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```
.extensions-app {
  .extension-form{
    .extension-license{
      padding: 50px;
    }
  }
  .extension-license {
    padding: 50px;
    >h6 {
      margin-bottom: 10px;
      text-transform: uppercase;
    }
```

```
    > p {
        margin-bottom: 25px;
    }
    .read-only-license {
        padding: 25px;
    }
    .dnn-multi-line-input-with-error {
        .dnn-label {
            text-transform: uppercase;
            padding-bottom: 5px;
        }
    }
  }
  .install-extension-box {
    .extension-license {
        .dnn-checkbox-container {
            float: none;
            text-align: center;
        }
    }
  }
}
```

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PROJECT: jQuery File Upload

WHERE WE USE IT: As a reusable javascript library as well as in multiple places in the UI, see https://github.com/dnnsoftware/Dnn.Platform/search?q=jQueryFileUpload&unscoped_q=jQueryFileUpload

LICENSE TYPE: MIT

PROJECT LINK: https://github.com/blueimp/jQuery-File-Upload

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PROJECT: Moq

WHERE WE USE IT: As part of our tests, see
https://github.com/dnnsoftware/Dnn.Platform/search?q=moq&unscoped_q=moq&type=Code

LICENSE TYPE: BSD 3-Clause

PROJECT LINK: https://github.com/moq/moq4

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PROJECT: MailKit

WHERE WE USE IT: Via the MailKitMailProvider

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PROJECT LINK: http://www.mimekit.net/

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PROJECT: Pikaday

WHERE WE USE IT: As a reusable javascript library and in DnnDatePicker, see
https://github.com/dnnsoftware/Dnn.Platform/search?q=pikaday&unscoped_q=pikaday

LICENSE TYPE: MIT

PROJECT LINK: https://github.com/Pikaday/Pikaday

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// ES3/ES5 implementation of the Krhonos Typed Array Specification
// Ref: http://www.khronos.org/registry/typedarray/specs/latest/
// Date: 2011-02-01
//
// Variations:
// * Allows typed_array.get/set() as alias for subscripts (typed_array[])
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Culture=neutral, PublicKeyToken=b77a5c561934e089</value>
  </resheader>
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PublicKeyToken=b77a5c561934e089</value>
  </resheader>
  <data name="Copyright.Text">
    <value>Copyright (c) {0} {1}</value>
  </data>
</root>
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Json.NET
http://www.newtonsoft.com/products/json/
http://www.codeplex.com/json/

Description:

The Json.NET library makes working with JSON formatted data in .NET simple. Quickly read and write JSON using the JsonReader and JsonWriter or serialize your .NET objects with a single method call using the JsonSerializer. Json.NET's features include:

- Lightning fast JsonReader and JsonWriter

- The JsonSerializer for quickly converting your .NET objects to JSON and back again
- Json.NET can optionally produce well formatted, indented JSON for debugging or display
- Attributes like JsonIgnore and JsonProperty can be added to a class to customize how a class is serialized
- Ability to convert JSON to and from XML

Instructions:

1. Extract Newtonsoft.Json.dll and Newtonsoft.Json.xml from the archive's /bin directory into your own applications.
2. Add a reference to Newtonsoft.Json.dll within Visual Studio.NET to your project.

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Version 2.1, February 1999

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent

case is that a free
library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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that uses the library". The
former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the

application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library
will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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Version 1.1

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```
import React, { Component } from "react";
import PropTypes from "prop-types";
import { GridCell, MultiLineInputWithError, Button, Checkbox } from "@dnnsoftware/dnn-react-common";
import { Scrollbars } from "react-custom-scrollbars";
import Localization from "localization";
import "./style.less";

const inputStyle = { width: "100%" };
const licenseBoxStyle = {
  border: "1px solid #c8c8c8",
  marginBottom: 25,
  height: 250,
  width: "100%"
};

class License extends Component {
  render() {
    const {props} = this;
    const {value} = props;
    /* eslint-disable react/no-danger */
    return (
      <GridCell className="extension-license extension-form">
        {props.installationMode && <h6>{Localization.get("InstallExtension_License.Header")}</h6>}
        {props.installationMode && <p dangerouslySetInnerHTML={{ __html:
Localization.get("InstallExtension_License.HelpText").replace("\\n", "<br/>") }}></p>}
```

```
            {!props.readOnly
 &&
                <MultiLineInputWithError
                    label={!props.installationMode && Localization.get("InstallExtension_License.Header")}
                    style={inputStyle}
                    value={value}
                    enabled={!props.disabled}
                    onChange={props.onChange && props.onChange.bind(this, "license")} />}
            {props.readOnly &&
                <Scrollbars style={licenseBoxStyle}>
                    <div className="read-only-license" dangerouslySetInnerHTML={{ __html: value }}></div>
                </Scrollbars>
            }
            <Checkbox
                label={Localization.get("InstallExtension_AcceptLicense.Label")}
                value={props.licenseAccepted}
                onChange={props.onToggleLicenseAccept}
            />
            {!props.buttonsAreHidden && <GridCell columnSize={100} className="modal-footer">
                <Button type="neutral"
onClick={props.onCancel.bind(this)}>{Localization.get("Cancel.Button")}</Button>
                {!props.disabled && <Button type="primary" onClick={props.onSave.bind(this,
true)}>{Localization.get("EditModule_SaveAndClose.Button")}</Button>}
                {(!props.disabled || props.installationMode) && <Button type="primary"
onClick={props.onSave.bind(this)}
disabled={props.primaryButtonDisabled}>{props.primaryButtonText}</Button>}
            </GridCell>}
        </GridCell>
    );
  }
}

License.propTypes = {
  onCancel: PropTypes.func,
  readOnly: PropTypes.bool,
  onSave: PropTypes.func,
  value: PropTypes.string,
  onChange: PropTypes.func,
  primaryButtonText: PropTypes.string,
  licenseAccepted: PropTypes.bool,
  onToggleLicenseAccept: PropTypes.func
};

License.defaultProps = {
  licenseAccepted: false
};

export default License;
```

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PROJECT: jQuery MouseWheel

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https://github.com/dnnsoftware/Dnn.Platform/blob/development/DNN%20Platform/DotNetNuke.Web/UI/WebControls/DnnDropDownList.cs

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PROJECT LINK: https://github.com/jquery/jquery-mousewheel

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event-emitter (Environment agnostic event emitter)
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License File: Admin Persona Bar Referenced Licences.zip\event-emitter\LICENSE
---

eventemitter3 (EventEmitter3 focuses on performance while maintaining a Node.js AND browser compatible interface.)
MIT License

License File: Admin Persona Bar Referenced Licences.zip\eventemitter3\LICENSE
---

events (Node's event emitter for all engines.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\events\LICENSE
---

eventsource
(W3C compliant EventSource client for Node.js)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\eventsource\LICENSE
---

exenv (React's ExecutionEnvironment module extracted for use in other packages & components)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\exenv\LICENSE
---

expand-brackets (Expand POSIX bracket expressions (character classes) in glob patterns.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\expand-brackets\LICENSE
---

expand-range (Fast, bash-like range expansion. Expand a range of numbers or letters, uppercase or lowercase. See the benchmarks. Used by micromatch.)
MIT License
License File: Admin Persona Bar
Referenced Licences.zip\expand-range\LICENSE
---

express (Fast, unopinionated, minimalist web framework)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\express\LICENSE
---

extglob (Convert extended globs to regex-compatible strings. Add (almost) the expressive power of regular expressions to glob patterns.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\extglob\LICENSE
---

fast-levenshtein (Efficient implementation of Levenshtein algorithm with locale-specific collator support.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\fast-levenshtein\LICENSE.md
---

fbjs (A collection of utility libraries

used by other Facebook JS projects)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\fbjs\LICENSE
---

figures (Unicode symbols with Windows CMD fallbacks)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\figures\license
---

file-entry-cache (Super simple cache for file metadata, useful for process that work o a given series of files and that only need to repeat the job on the changed ones since the previous run of the process)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\file-entry-cache\LICENSE
---

filesize (JavaScript library to generate a human readable String describing the file size)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\filesize\LICENSE
---

fill-range
(Fill in a range of numbers or letters, optionally passing an increment or multiplier to use.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\fill-range\LICENSE
---

finalhandler (Node.js final http responder)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\finalhandler\LICENSE
---

flat-cache (A stupidly simple key/value storage using files to persist some data)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\flat-cache\LICENSE
---

flatten (Flatten arbitrarily nested arrays into a non-nested list of non-array items)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\flatten\LICENSE
---

for-in
(Iterate over the own and inherited enumerable properties of an object, and return an object with properties that evaluate to true from the callback. Exit early by returning `false`. JavaScript/Node.js)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\for-in\LICENSE
---

for-own (Iterate over the own enumerable properties of an object, and return an object with properties that evaluate to true from the callback. Exit early by returning `false`. JavaScript/Node.js.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\for-own\LICENSE
---

foreach (foreach component + npm package)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\foreach\LICENSE
---

format-number-with-string
(Format a number based on a format string '-#,##0.##0')
MIT License
License File: Admin Persona Bar Referenced Licences.zip\format-number-with-string\license
---

forwarded (Parse HTTP X-Forwarded-For header)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\forwarded\LICENSE
---

fresh (HTTP response freshness testing)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\fresh\LICENSE
---

fs.realpath (Use node's fs.realpath, but fall back to the JS implementation if the native one fails)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\fs.realpath\LICENSE
---

function-bind
(Implementation of Function.prototype.bind)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\function-bind\LICENSE
---

generate-object-property (Generate safe JS code that can used to reference a object property)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\generate-object-property\LICENSE
---

glob (a little globber)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\glob\LICENSE
---

glob-base (Returns an object with the (non-glob) base path and the actual pattern.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\glob-base\LICENSE
---

glob-parent
(Strips glob magic from a string to provide the parent path)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\glob-parent\LICENSE
---

globby (Extends `glob` with support for multiple patterns and exposes a Promise API)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\globby\license
---

graceful-fs (A drop-in replacement for fs, making various improvements.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\graceful-fs\LICENSE
---

graceful-readlink (graceful fs.readlink)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\graceful-readlink\LICENSE
---

has (Object.prototype.hasOwnProperty.call
shortcut)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\has\LICENSE-MIT
---

has-ansi (Check if a string has ANSI escape codes)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\has-ansi\license
---

has-flag (Check if argv has a specific flag)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\has-flag\license
---

hoist-non-react-statics (Copies non-react specific statics from a child component to a parent component)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\hoist-non-react-statics\LICENSE.md
---

home-or-tmp (Get the user home directory with
 fallback to the system temp directory)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\home-or-tmp\license
---

http-browserify (http module compatability for browserify)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\http-browserify\LICENSE
---

http-errors (Create HTTP error objects)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\http-errors\LICENSE
---

http-proxy (HTTP proxying for the masses)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\http-proxy\LICENSE
---

https-browserify (https module compatability for browserify)
MIT License
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 Licences.zip\https-browserify\LICENSE
---

humanize (Javascript string formatter for human readability)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\humanize\LICENSE
---

iconv-lite (Convert character encodings in pure javascript.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\iconv-lite\LICENSE
---

ieee754 (Read/write IEEE754 floating point numbers from/to a Buffer or array-like object)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\ieee754\LICENSE
---

ignore (Ignore is a manager and filter for .gitignore rules.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\ignore\LICENSE-MIT
---

image-size

(get dimensions of any image file)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\image-size\LICENSE
---

indexes-of (line String/Array#indexOf but return all the indexes in an array)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\indexes-of\LICENSE
---

inflight (Add callbacks to requests in flight to avoid async duplication)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\inflight\LICENSE
---

inherits (Browser-friendly inheritance fully compatible with standard node.js inherits())
MIT License
License File: Admin Persona Bar Referenced Licences.zip\inherits\LICENSE
---

interpret
(A dictionary of file extensions and associated module loaders.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\interpret\LICENSE
---

invariant (invariant)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\invariant\LICENSE
---

ipaddr.js (A library for manipulating IPv4 and IPv6 addresses in JavaScript.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\ipaddr.js\LICENSE
---

is-absolute-url (Check if an URL is absolute)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\is-absolute-url\license
---

is-binary-path
(Check if a filepath is a binary file)
MIT License
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---

is-buffer (Determine if an object is a Buffer)

MIT License
License File: Admin Persona Bar Referenced Licences.zip\is-buffer\LICENSE
---

is-callable (Is this JS value callable? Works with Functions and GeneratorFunctions, despite ES6 @@toStringTag.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\is-callable\LICENSE
---

is-date-object (Is this value a JS Date object? This module works cross-realm/iframe, and despite ES6 @@toStringTag.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\is-date-object\LICENSE
---

is-dotfile
(Return true if a file path is (or has) a dotfile. Returns false if the path is a dot directory.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\is-dotfile\LICENSE
---

is-equal-shallow (Does a shallow comparison of two objects, returning false if the keys or values differ.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\is-equal-shallow\LICENSE
---

is-extendable (Returns true if a value is any of the object types: array, regexp, plain object, function or date. This is useful for determining if a value can be extended, e.g. "can the value have keys?")
MIT License
License File: Admin Persona Bar Referenced Licences.zip\is-extendable\LICENSE
---

is-extglob
(Returns true if a string has an extglob.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\is-extglob\LICENSE
---

is-finite (ES2015 Number.isFinite() ponyfill)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\is-finite\license
---

is-fullwidth-code-point (Check if the character represented by a given Unicode code point is fullwidth)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\is-fullwidth-code-point\license
---

is-glob (Returns `true` if the given string looks like a glob pattern or an extglob pattern. This makes it easy to create code that only uses external modules like node-glob when necessary, resulting in much faster code execution and initialization time, and
 a better user experience.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\is-glob\LICENSE
---

is-my-json-valid (A JSONSchema validator that uses code generation to be extremely fast)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\is-my-json-valid\LICENSE
---

is-number (Returns true if the value is a number. comprehensive tests.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\is-number\LICENSE
---

is-plain-obj (Check if a value is a plain object)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\is-plain-obj\license
---

is-posix-bracket (Returns true if the given string is a
 POSIX bracket expression (POSIX character class).)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\is-posix-bracket\LICENSE
---

is-primitive (Returns `true` if the value is a primitive.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\is-primitive\LICENSE
---

is-property (Tests if a JSON property can be accessed using . syntax)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\is-property\LICENSE
---

is-regex (Is this value a JS regex? Works cross-realm/iframe, and despite ES6 @@toStringTag)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\is-regex\LICENSE
---

is-resolvable (Check
 if a module ID is resolvable with require())
MIT License
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---

is-stream (Check if something is a Node.js stream)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\is-stream\license
---

is-svg (Check if a string or buffer is SVG)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\is-svg\license
---

is-symbol (Determine if a value is an ES6 Symbol or not.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\is-symbol\LICENSE
---

isobject (Returns true if the value is an object and not an array or null.)
MIT License
License File: Admin
Persona Bar Referenced Licences.zip\isobject\LICENSE
---

isomorphic-fetch (Isomorphic WHATWG Fetch API, for Node & Browserify)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\isomorphic-fetch\LICENSE
---

js-base64 (Yet another Base64 transcoder in pure-JS)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\js-base64\LICENSE.md
---

js-tokens (A regex that tokenizes JavaScript.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\js-tokens\LICENSE
---

js-yaml (YAML 1.2 parser and serializer)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\js-yaml\LICENSE
---

jsesc
(A JavaScript library for escaping JavaScript strings while generating the shortest possible valid output.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\jsesc\LICENSE-MIT.txt
---

json-stable-stringify (deterministic JSON.stringify() with custom sorting to get deterministic hashes from stringified results)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\json-stable-stringify\LICENSE
---

json-stringify-safe (Like JSON.stringify, but doesn't blow up on circular refs.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\json-stringify-safe\LICENSE
---

json3 (A modern JSON implementation compatible with nearly all JavaScript
platforms.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\json3\LICENSE
---

jsonpointer (Simple JSON Addressing.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\jsonpointer\LICENSE.md
---

kind-of (Get the native type of a value.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\kind-of\LICENSE
---

lazy-cache (Cache requires to be lazy-loaded when needed.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\lazy-cache\LICENSE
---

less (Leaner CSS)
Apache License
License File: Admin Persona Bar Referenced Licences.zip\less\LICENSE
---

less-loader
(less loader module for webpack)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\less-loader\LICENSE
---

levn (Light ECMAScript (JavaScript) Value Notation - human written, concise, typed, flexible)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\levn\LICENSE
---

loader-utils (utils for webpack loaders)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\loader-utils\LICENSE
---

lodash-es (Lodash exported as ES modules.)
MIT License
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---

lodash.assign (The modern build of lodashs
`_.assign` as a module.)
MIT License
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lodash.camelcase (The modern build of lodashs `_.camelCase` as a module.)
MIT License
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lodash.debounce (The modern build of lodashs `_.debounce` as a module.)
MIT License
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lodash.deburr (The lodash method `_.deburr` exported as a module.)
MIT License
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---

lodash.isarguments (The lodash method
`_.isArguments` exported as a module.)
MIT License
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---

lodash.isarray (The modern build of lodashs `_.isArray` as a module.)
MIT License
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---

lodash.keys (The modern build of lodashs `_.keys` as a module.)
MIT License
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lodash.memoize (The lodash method `_.memoize` exported as a module.)
MIT License
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---

lodash.restparam (The modern build
 of lodashs `_.restParam` as a module.)
MIT License
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lodash.uniq (The lodash method `_.uniq` exported as a module.)
MIT License
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---

lodash.words (The lodash method `_.words` exported as a module.)
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lodash._baseassign (The modern build of lodashs internal `baseAssign` as a module.)
MIT License
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lodash._basecopy (The modern
 build of lodashs internal `baseCopy` as a module.)
MIT License
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lodash._bindcallback (The modern build of lodashs internal `bindCallback` as a module.)
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lodash._createassigner (The modern build of lodashs internal `createAssigner` as a module.)
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lodash._createcompounder (The modern build of lodashs internal `createCompounder` as a module.)
MIT License
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---

lodash._getnative

(The modern build of lodashs internal `getNative` as a module.)
MIT License
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---

lodash._isiterateecall (The modern build of lodashs internal `isIterateeCall` as a module.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\lodash._isiterateecall\LICENSE.txt
---

lodash._root (The internal lodash function `root` exported as a module.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\lodash._root\LICENSE
---

longest (Get the longest item in an array.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\longest\LICENSE
---

loose-envify
(Fast (and loose) selective `process.env` replacer using js-tokens instead of an AST)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\loose-envify\LICENSE
---

math-expression-evaluator (A flexible math expression evaluator)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\math-expression-evaluator\LICENSE
---

media-typer (Simple RFC 6838 media type parser and formatter)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\media-typer\LICENSE
---

merge-descriptors (Merge objects using descriptors)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\merge-descriptors\LICENSE
---

methods
(HTTP methods that node supports)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\methods\LICENSE
---

micromatch (Glob matching for javascript/node.js. A drop-in replacement and faster alternative to minimatch and

multimatch.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\micromatch\LICENSE
---

mime (A comprehensive library for mime-type mapping)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\mime\LICENSE
---

mime-db (Media Type Database)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\mime-db\LICENSE
---

mime-types
(The ultimate javascript content-type utility.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\mime-types\LICENSE
---

minimist (parse argument options)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\minimist\LICENSE
---

mkdirp (Recursively mkdir, like `mkdir -p`)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\mkdirp\LICENSE
---

moment (Parse, validate, manipulate, and display dates)
MIT License
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---

mute-stream (Bytes go in, but they don't come out (when muted).)
MIT License
License
File: Admin Persona Bar Referenced Licences.zip\mute-stream\LICENSE
---

negotiator (HTTP content negotiation)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\negotiator\LICENSE
---

node-fetch (A light-weight module that brings window.fetch to node.js and io.js)

MIT License
License File: Admin Persona Bar Referenced Licences.zip\node-fetch\LICENSE.md
---

readable-stream (Streams3, a user-land copy of the stream library from Node.js v0.11.x)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\readable-stream\LICENSE
---

normalize-path (Normalize file path slashes to be unix-like forward slashes. Also condenses
 repeat slashes to a single slash and removes and trailing slashes.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\normalize-path\LICENSE
---

normalize-range (Utility for normalizing a numeric range, with a wrapping function useful for polar coordinates)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\normalize-range\license
---

normalize-url (Normalize a URL)
MIT License
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---

num2fraction (Convert number to fraction)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\num2fraction\LICENSE
---

number-is-nan (ES2015 Number.isNaN()
 ponyfill)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\number-is-nan\license
---

object-assign (ES2015 `Object.assign()` ponyfill)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\object-assign\license
---

object-keys (An Object.keys replacement, in case Object.keys is not available. From https://github.com/es-shims/es5-shim)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\object-keys\LICENSE
---

object.omit (Return a copy of an object excluding the given key, or array of keys. Also accepts an optional filter

function as the last argument.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\object.omit\LICENSE
---

on-finished
 (Execute a callback when a request closes, finishes, or errors)
MIT License
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---

on-headers (Execute a listener when a response is about to write headers)
MIT License
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---

once (Run a function exactly one time)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\once\LICENSE
---

onetime (Only call a function once)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\onetime\license
---

optimist (Light-weight option parsing with
 an argv hash. No optstrings attached.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\optimist\LICENSE
---

wordwrap (Wrap those words. Show them at what columns to start and stop.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\wordwrap\LICENSE
---

optionator (option parsing and help generation)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\optionator\LICENSE
---

original (Generate the origin from an URL or check if two URL/Origins are the same)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\original\LICENSE
---

url-parse (Small footprint URL parser that works seamlessly

across Node.js and browser environments)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\url-parse\LICENSE
---

os-browserify ()
MIT License
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---

os-homedir (Node.js 4 `os.homedir()` ponyfill)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\os-homedir\license
---

os-tmpdir (Node.js os.tmpdir() ponyfill)
MIT License
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---

pako (zlib port to javascript - fast, modularized, with browser support)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\pako\LICENSE
---

parse-glob
(Parse a glob pattern into an object of tokens.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\parse-glob\LICENSE
---

parse-key (Parses strings into key objects of the same format as the ones emitted by nodejs readline.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\parse-key\LICENSE
---

parseurl (parse a url with memoization)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\parseurl\LICENSE
---

path-browserify (the path module from node core for browsers)
MIT License
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---

path-exists

(Check if a path exists)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\path-exists\license
---

path-is-absolute (Node.js 0.12 path.isAbsolute() ponyfill)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\path-is-absolute\license
---

path-is-inside (Tests whether one path is inside another path)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\path-is-inside\LICENSE.txt
---

path-to-regexp (Express style path to RegExp utility)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\path-to-regexp\LICENSE
---

pbkdf2-compat
(Provides the functionality of PBKDF2 with the ability to use any natively supported Node crypto hashing algorithm.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\pbkdf2-compat\LICENSE
---

performance-now (Implements performance.now (based on process.hrtime).)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\performance-now\license.txt
---

pify (Promisify a callback-style function)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\pify\license
---

pinkie (Itty bitty little widdle twinkie pinkie ES2015 Promise implementation)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\pinkie\license
---

pinkie-promise
(ES2015 Promise ponyfill)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\pinkie-promise\license
---

pluralize (Pluralize and singularize any word)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\pluralize\LICENSE
---

postcss (Tool for transforming styles with JS plugins)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\postcss\LICENSE
---

supports-color (Detect whether a terminal supports color)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\supports-color\license
---

postcss-calc (PostCSS plugin to reduce calc())
MIT License
License File: Admin
Persona Bar Referenced Licences.zip\postcss-calc\LICENSE
---

postcss-colormin (Minify colors in your CSS files with PostCSS.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\postcss-colormin\LICENSE-MIT
---

postcss-convert-values (Convert values with PostCSS (e.g. ms -> s))
MIT License
License File: Admin Persona Bar Referenced Licences.zip\postcss-convert-values\LICENSE-MIT
---

postcss-discard-comments (Discard comments in your CSS files with PostCSS.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\postcss-discard-comments\LICENSE-MIT
---

postcss-discard-duplicates (Discard duplicate rules in your CSS files with PostCSS.)
MIT
License
License File: Admin Persona Bar Referenced Licences.zip\postcss-discard-duplicates\LICENSE-MIT
---

postcss-discard-empty (Discard empty rules and values with PostCSS.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\postcss-discard-empty\LICENSE-MIT
---

postcss-discard-overridden (PostCSS plugin to discard overridden @keyframes or @counter-style.)

MIT License
License File: Admin Persona Bar Referenced Licences.zip\postcss-discard-overridden\LICENSE
---

postcss-discard-unused (Discard unused counter styles, keyframes and fonts.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\postcss-discard-unused\LICENSE-MIT
---

postcss-filter-plugins
(Exclude/warn on duplicated PostCSS plugins.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\postcss-filter-plugins\LICENSE-MIT
---

postcss-merge-idents (Merge keyframe and counter style identifiers.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\postcss-merge-idents\LICENSE-MIT
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postcss-merge-longhand (Merge longhand properties into shorthand with PostCSS.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\postcss-merge-longhand\LICENSE-MIT
---

postcss-merge-rules (Merge CSS rules with PostCSS.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\postcss-merge-rules\LICENSE-MIT
---

postcss-message-helpers
(PostCSS helpers to throw or output GNU style messages)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\postcss-message-helpers\LICENSE
---

postcss-minify-font-values (Minify font declarations with PostCSS)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\postcss-minify-font-values\LICENSE
---

postcss-minify-gradients (Minify gradient parameters with PostCSS.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\postcss-minify-gradients\LICENSE-MIT
---

postcss-minify-params (Minify at-rule params with PostCSS)
MIT License

License File: Admin Persona Bar Referenced Licences.zip\postcss-minify-params\LICENSE
---

postcss-minify-selectors
(Minify selectors with PostCSS.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\postcss-minify-selectors\LICENSE-MIT
---

postcss-modules-local-by-default (A CSS Modules transform to make local scope the default)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\postcss-modules-local-by-default\LICENSE
---

regexpu-core (regexpus core functionality (i.e. `rewritePattern(pattern, flag)`), capable of translating ES6 Unicode regular expressions to ES5.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\regexpu-core\LICENSE-MIT.txt
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postcss-normalize-charset (Add necessary or remove
extra charset with PostCSS)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\postcss-normalize-charset\LICENSE
---

postcss-normalize-url (Normalize URLs with PostCSS)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\postcss-normalize-url\LICENSE-MIT
---

postcss-ordered-values (Ensure values are ordered consistently in your CSS.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\postcss-ordered-values\LICENSE-MIT
---

postcss-reduce-idents (Reduce custom identifiers with PostCSS.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\postcss-reduce-idents\LICENSE-MIT
---

postcss-reduce-initial
(Reduce initial definitions to the actual initial value, where possible.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\postcss-reduce-initial\LICENSE-MIT
---

postcss-reduce-transforms (Reduce transform functions with PostCSS.)

MIT License
License File: Admin Persona Bar Referenced Licences.zip\postcss-reduce-transforms\LICENSE-MIT
---

postcss-selector-parser ()
MIT License
License File: Admin Persona Bar Referenced Licences.zip\postcss-selector-parser\LICENSE-MIT
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postcss-svgo (Optimise inline SVG with PostCSS.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\postcss-svgo\LICENSE-MIT
---

postcss-unique-selectors
(Ensure CSS selectors are unique.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\postcss-unique-selectors\LICENSE-MIT
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postcss-value-parser (Transforms css values and at-rule params into the tree)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\postcss-value-parser\LICENSE
---

postcss-zindex (Reduce z-index values with PostCSS.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\postcss-zindex\LICENSE-MIT
---

prefix-style (gets a prefixed name for a css style)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\prefix-style\LICENSE.md
---

prelude-ls (prelude.ls is a functionally
oriented utility library. It is powerful and flexible. Almost all of its functions are curried. It is written in, and is the recommended base library for, LiveScript.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\prelude-ls\LICENSE
---

prepend-http (Prepend `http://` to humanized URLs like todomvc.com and localhost)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\prepend-http\license
---

preserve (Temporarily substitute tokens in the given `string` with placeholders, then put them back after

transforming the string.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\preserve\LICENSE
---

private (Utility for associating truly private state with any JavaScript object)
MIT License
License
File: Admin Persona Bar Referenced Licences.zip\private\LICENSE
---

process (process information for node.js and browsers)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\process\LICENSE
---

process-nextick-args (process.nextTick but always with args)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\process-nextick-args\license.md
---

progress (Flexible ascii progress bar)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\progress\LICENSE
---

promise (Bare bones Promises/A+ implementation)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\promise\LICENSE
---

proxy-addr
(Determine address of proxied request)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\proxy-addr\LICENSE
---

prr (A better Object.defineProperty())
MIT License
License File: Admin Persona Bar Referenced Licences.zip\prr\LICENSE
---

punycode (A robust Punycode converter that fully complies to RFC 3492 and RFC 5891, and works on nearly all JavaScript platforms.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\punycode\LICENSE-MIT.txt
---

q (A library for promises (CommonJS/Promises/A,B,D))
MIT License
License File: Admin Persona Bar Referenced Licences.zip\q\LICENSE
---

qs
(A querystring parser that supports nesting and arrays, with a depth limit)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\qs\LICENSE
---

query-string (Parse and stringify URL query strings)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\query-string\license
---

querystring (Node's querystring module for all engines.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\querystring\License.md
---

querystring-es3 (Node's querystring module for all engines. (ES3 compat fork))
MIT License
License File: Admin Persona Bar Referenced Licences.zip\querystring-es3\License.md
---

querystringify
(Querystringify - Small, simple but powerful query string parser.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\querystringify\LICENSE
---

randomatic (Generate randomized strings of a specified length, fast. Only the length is necessary, but you can optionally generate patterns using any combination of numeric, alpha-numeric, alphabetical, special or custom characters.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\randomatic\LICENSE
---

range-parser (Range header field string parser)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\range-parser\LICENSE
---

react (React is a JavaScript library for building user interfaces.)
MIT License
License File:

Admin Persona Bar Referenced Licences.zip\react\LICENSE
---

react-collapse (Component-wrapper for collapse animation with react-motion for elements with variable (and dynamic) height)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\react-collapse\LICENSE
---

react-custom-scrollbars (React scrollbars component)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\react-custom-scrollbars\LICENSE.md
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react-dock (Resizable dockable react component)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\react-dock\LICENSE
---

react-dom (React package for working with the DOM.)
MIT License
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Bar Referenced Licences.zip\react-dom\LICENSE
---

react-height (Component-wrapper to determine and report children elements height)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\react-height\LICENSE
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react-json-tree (React JSON Viewer Component, Extracted from redux-devtools)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\react-json-tree\LICENSE.md
---

react-modal (Accessible modal dialog component for React.JS)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\react-modal\LICENSE
---

react-motion (A spring that solves your animation problems.)
MIT License
License File: Admin Persona Bar
Referenced Licences.zip\react-motion\LICENSE
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react-pure-render (A function, a component and a mixin for React pure rendering)
MIT License

License File: Admin Persona Bar Referenced Licences.zip\react-pure-render\LICENSE
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react-redux (Official React bindings for Redux)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\react-redux\LICENSE.md
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react-tabs (React tabs component)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\react-tabs\LICENSE
---

react-tooltip (react tooltip component)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\react-tooltip\LICENSE
---

react-widgets
(An la carte set of polished, extensible, and accessible inputs built for React)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\react-widgets\License.txt
---

readdirp (Recursive version of fs.readdir with streaming api.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\readdirp\LICENSE
---

reduce-css-calc (Reduce CSS calc() function to the maximum)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\reduce-css-calc\LICENSE
---

reduce-function-call (Reduce function calls in a string, using a callback)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\reduce-function-call\LICENSE
---

redux
(Predictable state container for JavaScript apps)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\redux\LICENSE.md
---

redux-devtools (Redux DevTools with hot reloading and time travel)
MIT License
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---

redux-devtools-dock-monitor (A resizable and movable dock for Redux DevTools monitors)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\redux-devtools-dock-monitor\LICENSE.md
---

redux-devtools-log-monitor (The default tree view monitor for Redux DevTools)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\redux-devtools-log-monitor\LICENSE.md
---

redux-devtools-themes
(Color themes for Redux DevTools monitors)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\redux-devtools-themes\LICENSE.md
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redux-immutable-state-invariant (Redux middleware that detects mutations between and outside redux dispatches. For development use only.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\redux-immutable-state-invariant\LICENSE.md
---

redux-thunk (Thunk middleware for Redux.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\redux-thunk\LICENSE.md
---

regenerate (Generate JavaScript-compatible regular expressions based on a given set of Unicode symbols or code points.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\regenerate\LICENSE-MIT.txt
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regex-cache (Memoize the results of a call to the RegExp constructor, avoiding repetitious runtime compilation of the same string and options, resulting in suprising performance improvements.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\regex-cache\LICENSE
---

regjsgen (Generate `RegExp`s from RegJSParsers AST)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\regjsgen\LICENSE.txt
---

regjsparser ()
MIT License

License File: Admin Persona Bar Referenced Licences.zip\regjsparser\LICENSE.BSD
---

repeat-element
(Create an array by repeating the given value n times.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\repeat-element\LICENSE
---

repeat-string (Repeat the given string n times. Fastest implementation for repeating a string.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\repeat-string\LICENSE
---

repeating (Repeat a string - fast)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\repeating\license
---

require-uncached (Require a module bypassing the cache)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\require-uncached\license
---

requires-port (Check if
a protocol requires a certain port number to be added to an URL.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\requires-port\LICENSE
---

resolve-from (Resolve the path of a module like require.resolve() but from a given path)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\resolve-from\license
---

restore-cursor (Gracefully restore the CLI cursor on exit)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\restore-cursor\license
---

right-align (Right-align the text in a string.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\right-align\LICENSE
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rimraf (A deep deletion module
for node (like `rm -rf`))
MIT License

License File: Admin Persona Bar Referenced Licences.zip\rimraf\LICENSE
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run-async (Utility method to run function either synchronously or asynchronously using the common `this.async()` style.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\run-async\LICENSE
---

sax (An evented streaming XML parser in JavaScript)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\sax\LICENSE
---

send (Better streaming static file server with Range and conditional-GET support)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\send\LICENSE
---

serve-index (Serve directory listings)
MIT
License
License File: Admin Persona Bar Referenced Licences.zip\serve-index\LICENSE
---

serve-static (Serve static files)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\serve-static\LICENSE
---

setimmediate (A shim for the setImmediate efficient script yielding API)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\setimmediate\LICENSE.txt
---

setprototypeof (A small polyfill for Object.setprototypeof)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\setprototypeof\LICENSE
---

sha.js (streaming sha1 hash in pure javascript)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\sha.js\LICENSE
---

shebang-regex
(Regular expression for matching a shebang)
MIT License

License File: Admin Persona Bar Referenced Licences.zip\shebang-regex\license
---

shelljs (Portable Unix shell commands for Node.js)
BSD License
License File: Admin Persona Bar Referenced Licences.zip\shelljs\LICENSE
---

slice-ansi (Slice a string with ANSI escape codes)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\slice-ansi\license
---

sockjs (SockJS-node is a server counterpart of SockJS-client a JavaScript library that provides a WebSocket-like object in the browser. SockJS gives you a coherent, cross-browser, Javascript API which creates a
low latency, full duplex, cross-domain communication channel between the browser and the web server.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\sockjs\LICENSE
---

sockjs-client (SockJS-client is a browser JavaScript library that provides a WebSocket-like object. SockJS gives you a coherent, cross-browser, Javascript API which creates a low latency, full duplex, cross-domain communication channel between the browser and the web server.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\sockjs-client\LICENSE
---

sort-keys (Sort the keys of an object)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\sort-keys\license
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source-map (Generates and consumes source maps)
MIT License
License
File: Admin Persona Bar Referenced Licences.zip\source-map\LICENSE
---

source-map-support (Fixes stack traces for files with source maps)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\source-map-support\LICENSE.md
---

sprintf-js (JavaScript sprintf implementation)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\sprintf-js\LICENSE
---

statuses (HTTP status utility)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\statuses\LICENSE
---

stream-browserify (the stream module from node core for browsers)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\stream-browserify\LICENSE
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stream-cache
(A simple way to cache and replay readable streams.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\stream-cache\License
---

strict-uri-encode (A stricter URI encode adhering to RFC 3986)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\strict-uri-encode\license
---

string-width (Get the visual width of a string - the number of columns required to display it)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\string-width\license
---

string_decoder (The string_decoder module from Node core)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\string_decoder\LICENSE
---

strip-ansi
(Strip ANSI escape codes)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\strip-ansi\license
---

strip-json-comments (Strip comments from JSON. Lets you use comments in your JSON files!)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\strip-json-comments\license
---

svgo (Nodejs-based tool for optimizing SVG vector graphics files)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\svgo\LICENSE
---

symbol-observable (Symbol.observable ponyfill)

MIT License
License File: Admin Persona Bar Referenced Licences.zip\symbol-observable\license
---

table
(Formats data into a string table.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\table\LICENSE
---

text-table (borderless text tables with alignment)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\text-table\LICENSE
---

throttle-debounce (Throttle/debounce your functions.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\throttle-debounce\LICENSE.md
---

through (simplified stream construction)
Apache License
License File: Admin Persona Bar Referenced Licences.zip\through\LICENSE.APACHE2
---

timers-browserify (timers module for browserify)
MIT License
License
File: Admin Persona Bar Referenced Licences.zip\timers-browserify\LICENSE.md
---

to-fast-properties (Force V8 to use fast properties for an object)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\to-fast-properties\license
---

trim-right (Similar to String#trim() but removes only whitespace on the right)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\trim-right\license
---

tty-browserify (the tty module from node core for browsers)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\tty-browserify\LICENSE
---

type-check (type-check allows you to check the types of JavaScript values at runtime

with a Haskell like type syntax.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\type-check\LICENSE
---

type-is (Infer the content-type of a request.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\type-is\LICENSE
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typedarray (TypedArray polyfill for old browsers)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\typedarray\LICENSE
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uglify-js (JavaScript parser, mangler/compressor and beautifier toolkit)
BSD License
License File: Admin Persona Bar Referenced Licences.zip\uglify-js\LICENSE
---

uglify-to-browserify (A transform to make UglifyJS work in browserify.)
MIT License
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Persona Bar Referenced Licences.zip\uglify-to-browserify\LICENSE
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uniq (Removes duplicates from a sorted array in place)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\uniq\LICENSE
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unpipe (Unpipe a stream from all destinations)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\unpipe\LICENSE
---

url (The core `url` packaged standalone for use with Browserify.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\url\LICENSE
---

user-home (Get the path to the user home directory)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\user-home\license
---

util

(Node.JS util module)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\util\LICENSE
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util-deprecate (The Node.js `util.deprecate()` function with browser support)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\util-deprecate\LICENSE
---

utils-merge (merge() utility function)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\utils-merge\LICENSE
---

uuid (Rigorous implementation of RFC4122 (v1 and v4) UUIDs.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\uuid\LICENSE.md
---

vary (Manipulate the HTTP Vary header)
MIT
License
License File: Admin Persona Bar Referenced Licences.zip\vary\LICENSE
---

vendors (List of vendor prefixes known to the web platform)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\vendors\LICENSE
---

vm-browserify (vm module for the browser)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\vm-browserify\LICENSE
---

warning (A mirror of Facebook's Warning)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\warning\LICENSE.md
---

webpack (Packs CommonJs/AMD modules for the browser. Allows to split your codebase into multiple bundles, which can be loaded on demand. Support loaders to preprocess
files, i.e. json, jade, coffee, css, less, ... and your custom stuff.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\webpack\LICENSE
---

webpack-dev-middleware (Offers a dev middleware for webpack, which arguments a live bundle to a directory)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\webpack-dev-middleware\LICENSE
---

whatwg-fetch (A window.fetch polyfill.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\whatwg-fetch\LICENSE
---

whet.extend (A sharped version of port of jQuery.extend that actually works on node.js)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\whet.extend\LICENSE
---

window-size
(Reliable way to to get the height and width of the terminal/console in a node.js environment.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\window-size\LICENSE-MIT
---

wrappy (Callback wrapping utility)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\wrappy\LICENSE
---

write (Write files to disk, creating intermediate directories if they don't exist.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\write\LICENSE
---

yargs (Light-weight option parsing with an argv hash. No optstrings attached.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\yargs\LICENSE
---

string.prototype.startswith
(A robust & optimized `String.prototype.startsWith` polyfill, based on the ECMAScript 6 specification.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\string.prototype.startswith\LICENSE-MIT.txt
---

almost-equal (Test if two floats are almost equal)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\almost-equal\LICENSE
---

color-space (Color space conversions and data)

MIT License
License File: Admin Persona Bar Referenced Licences.zip\color-space\LICENSE
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lodash.curry (The lodash method `_.curry` exported as a module.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\lodash.curry\LICENSE
---

lodash.flow
(The lodash method `_.flow` exported as a module.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\lodash.flow\LICENSE
---

pure-color (Pure functions for color conversion and parsing)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\pure-color\LICENSE
---

react-base16-styling (React styling with base16 color scheme support)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\react-base16-styling\LICENSE
---

react-click-outside (A component wrapper that provides click outside detection.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\react-click-outside\LICENSE.txt
---

redux-devtools-instrument
(Redux DevTools instrumentation)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\redux-devtools-instrument\LICENSE.md
---

array-find (ES6 Array.find ponyfill. Return the first array element which satisfies a testing function.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\array-find\LICENSE
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babel-plugin-transform-regenerator (Explode async and generator functions into a state machine.)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\babel-plugin-transform-regenerator\LICENSE
---

browserify-aes (aes, for browserify)
MIT License

License File: Admin Persona Bar Referenced Licences.zip\browserify-aes\LICENSE
---

browserify-rsa
(RSA for browserify)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\browserify-rsa\LICENSE
---

browserify-sign (adds node crypto signing for browsers)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\browserify-sign\LICENSE
---

buffer-xor (A simple module for bitwise-xor on buffers)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\buffer-xor\LICENSE
---

builtin-modules (List of the Node.js builtin modules)
MIT License
License File: Admin Persona Bar Referenced Licences.zip\builtin-modules\license
---

contains-path
(Return true if a file path contains the given path.)
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//! moment.js locale configuration
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PROJECT: WebFormsMVP

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PROJECT: history.js

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PROJECT: jQuery TimePicker

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PROJECT LINK: https://github.com/trentrichardson/jQuery-Timepicker-Addon

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https://github.com/dnnsoftware/Dnn.Platform/search?q=slides.min.jquery.js&unscoped_q=slides.min.jquery.js

LICENSE TYPE: Apache 2.0

PROJECT LINK: https://github.com/nathansearles/Slides/tree/SlidesJS-3

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```
<?xml version="1.0" encoding="UTF-8"?>
<root>
 <xsd:schema id="root" xmlns="" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:msdata="urn:schemas-microsoft-com:xml-msdata">
   <xsd:element name="root" msdata:IsDataSet="true">
     <xsd:complexType>
       <xsd:choice maxOccurs="unbounded">
         <xsd:element name="data">
           <xsd:complexType>
             <xsd:sequence>
               <xsd:element name="value" type="xsd:string" minOccurs="0" msdata:Ordinal="1" />
               <xsd:element name="comment" type="xsd:string" minOccurs="0" msdata:Ordinal="2" />
             </xsd:sequence>
             <xsd:attribute name="name" type="xsd:string" />
             <xsd:attribute name="type" type="xsd:string" />
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           </xsd:complexType>
         </xsd:element>
         <xsd:element name="resheader">
           <xsd:complexType>
             <xsd:sequence>
               <xsd:element name="value"
 type="xsd:string" minOccurs="0" msdata:Ordinal="1" />
             </xsd:sequence>
             <xsd:attribute name="name" type="xsd:string" use="required" />
           </xsd:complexType>
         </xsd:element>
       </xsd:choice>
     </xsd:complexType>
   </xsd:element>
 </xsd:schema>
 <resheader name="ResMimeType">
   <value>text/microsoft-resx</value>
 </resheader>
 <resheader name="Version">
   <value>1.0.0.0</value>
 </resheader>
 <resheader name="Reader">
   <value>System.Resources.ResXResourceReader, System.Windows.Forms, Version=1.0.3300.0, Culture=neutral,
PublicKeyToken=b77a5c561934e089</value>
 </resheader>
 <resheader name="Writer">
   <value>System.Resources.ResXResourceWriter, System.Windows.Forms, Version=1.0.3300.0, Culture=neutral,
```

PublicKeyToken=b77a5c561934e089</value>
</resheader>
<data name="Copyright.Text">
<value>Tous droits rservs © {0} {1}</value>
</data>
</root>

1.5646 librdkafka 2.6.1-r0

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src/rdxxhash.[ch] src/lz4*.[ch]: git@github.com:lz4/lz4.git 5ff839680134437dbf4678f3d0c7b371d84f4964

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FindZstd.cmake: git@github.com:facebook/folly.git 87f1a403b49552dae75ae94c8610dd5979913477

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1.5649 curl 7.68.0-1ubuntu2.25

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1.5652 openssh 9.9

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[Tatu continues]
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*
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*
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* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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*/
/**
* Special exception thrown by

* {@link AbstractSession#attachSession(org.apache.sshd.common.io.IoSession, AbstractSession)}
 in order to indicate an
* already attached I/O session
*
* @author Apache MINA SSHD Project
*/

Found in path(s):
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/session/helpers/MultipleAttachedSessionException.java
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/config/keys/loader/openssh/kdf/BCrypt.java
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*/
/**
* Provides a way to listen and handle the {@code SSH_MSG_IGNORE} and {@code SSH_MSG_DEBUG}
messages that are received
* by
 a session, as well as proprietary and/or extension messages and behavior.
*
* @author <a href="mailto:dev@mina.apache.org">Apache MINA SSHD Project</a>
*/
/**
   * Invoked if the user configured usage of a proprietary heartbeat mechanism. <B>Note:</B> by default throws
   * {@code UnsupportedOperationException} so users who configure a proprietary heartbeat mechanism option
must
   * provide an implementation for this method.
   *
   * @param  service   The {@link ConnectionService} through which the heartbeat is being executed.
   * @return          {@code true} whether heartbeat actually sent - <B>Note:</B> used mainly for debugging
purposes.
   * @throws Exception If failed to send the heartbeat - <B>Note:</B> causes associated session termination.
   */
```

Found in path(s):
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/session/ReservedSessionMessagesHandler.java
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Found in path(s):
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/META-

INF/maven/org.apache.sshd/sshd-osgi/pom.xml
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Found in path(s):
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/forward/ForwarderFactory.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/agent/local/LocalAgentFactory.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/agent/unix/AgentClient.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/server/jaas/JaasPasswordAuthenticator.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/server/kex/DHGServer.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/util/OsUtils.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/file/virtualfs/VirtualFileSystemFactory.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/util/buffer/ByteArrayBuffer.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/client/channel/ClientChannelEvent.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/signature/SignatureFactoriesManager.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/util/threads/SshThreadPoolExecutor.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-

jar/org/apache/sshd/server/command/CommandDirectOutputStreamAware.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/client/simple/SimpleSessionClient.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/server/kex/Moduli.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/kex/BuiltinDHFactories.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/future/WaitableFuture.java
*
/opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/config/keys/KeyUtils.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/kex/ECDH.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/future/WithException.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/client/auth/password/PasswordAuthenticationReporter.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/config/keys/PublicKeyEntry.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/signature/SignatureSkED25519.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/auth/MutableBasicCredentials.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/util/VersionInfo.java
*
/opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/session/AbstractConnectionServiceFactory.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/client/ClientBuilder.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/util/io/der/DERWriter.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/kex/MontgomeryCurve.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/server/auth/password/StaticPasswordAuthenticator.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/file/util/BasePath.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/client/keyverifier/ModifiedServerKeyAcceptor.java
*
/opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/client/channel/ChannelSession.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/keyprovider/KeyIdentityProviderHolder.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/util/buffer/Buffer.java

* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/server/keyprovider/SimpleGeneratorHostKeyProvider.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/io/IoWriteFuture.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/io/nio2/Nio2ServiceFactoryFactory.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/util/logging/SimplifiedLoggerSkeleton.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/forward/PortForwardingManager.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/cipher/BuiltinCiphers.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/client/config/keys/ClientIdentityLoaderHolder.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/util/ObjectBuilder.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/io/IoInputStream.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/io/nio2/Nio2DefaultIoWriteFuture.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/util/io/input/NullInputStream.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/client/keyverifier/RequiredServerKeyVerifier.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/server/auth/gss/GSSAuthenticator.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/server/forward/TcpipServerChannel.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/file/nonefs/NoneFileSystemFactory.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/util/io/LineDataConsumer.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/util/buffer/BufferUtils.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/server/forward/TcpForwardingFilter.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/client/simple/SimpleClient.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/random/AbstractRandom.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/channel/PtyChannelConfiguration.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/util/buffer/keys/ECBufferPublicKeyParser.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-

jar/org/apache/sshd/client/config/hosts/HostPatternsHolder.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/config/keys/loader/PrivateKeyObfuscator.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/channel/ChannelPipedInputStream.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/Service.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/client/session/ClientSessionImpl.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/config/keys/PublicKeyEntryDataResolver.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/util/MapEntryUtils.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/server/auth/hostbased/HostBasedAuthenticator.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/keyprovider/KeyPairProvider.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/channel/exception/SshChannelClosedException.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/server/channel/AbstractServerChannel.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/kex/extension/parser/AbstractKexExtensionParser.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/session/UnknownChannelReferenceHandler.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/AttributeRepository.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/random/JceRandomFactory.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/auth/UserAuthInstance.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/client/auth/keyboard/UserAuthKeyboardInteractiveFactory.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/server/shell/AggregateShellFactory.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/file/nonefs/NoneFileSystem.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/client/auth/pubkey/UserAuthPublicKeyFactory.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/util/io/output/NullPrintStream.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/client/auth/keyboard/UserInteraction.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/cipher/BaseRC4Cipher.java

* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/server/session/ServerSessionImpl.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/channel/AbstractRequestHandler.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/server/auth/keyboard/PromptEntry.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/channel/AbstractChannelRequestHandler.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/io/IoReadFuture.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/config/keys/impl/RSAPublicKeyDecoder.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/client/subsystem/SubsystemClient.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/channel/exception/SshChannelBufferedOutputException.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/io/DefaultIoServiceFactoryFactory.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/session/helpers/AbstractSession.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/io/AbstractIoServiceFactory.java
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* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/agent/common/DefaultAgentForwardSupport.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/client/session/forward/PortForwardingTracker.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/random/Random.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/session/helpers/SessionHelper.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/client/config/hosts/ConfigFileHostEntryResolver.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/client/config/hosts/KnownHostHashValue.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/server/config/SshServerConfigFileReader.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/server/auth/keyboard/InteractiveChallenge.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/config/keys/impl/DSSPublicKeyEntryDecoder.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/util/io/PathUtils.java
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* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/server/session/ServerProxyAcceptor.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/config/keys/loader/pem/DSSPEMResourceKeyPairParser.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/future/GlobalRequestFuture.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/kex/KeyExchangeFactory.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/compression/BaseCompression.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/client/channel/ChannelSubsystem.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/server/kex/DHGEXServer.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/channel/AbstractChannel.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/NamedResource.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-

jar/org/apache/sshd/client/session/ClientSession.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-
jar/org/apache/sshd/common/cipher/CipherFactory.java
*
/opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-
jar/org/apache/sshd/client/future/DefaultOpenFuture.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-
jar/org/apache/sshd/common/signature/SignatureDSA.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-
jar/org/apache/sshd/agent/local/AgentServerProxy.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-
jar/org/apache/sshd/common/global/KeepAliveHandler.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-
jar/org/apache/sshd/common/util/SshdEventListener.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-
jar/org/apache/sshd/common/util/helper/LazyMatchingTypeIterable.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-
jar/org/apache/sshd/server/auth/pubkey/AcceptAllPublickeyAuthenticator.java
*
/opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-
jar/org/apache/sshd/common/config/keys/loader/openssh/OpenSSHDSSPrivateKeyEntryDecoder.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-
jar/org/apache/sshd/common/util/GenericUtils.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-
jar/org/apache/sshd/common/util/closeable/SimpleCloseable.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-
jar/org/apache/sshd/server/session/ServerSessionAware.java
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-
jar/org/apache/sshd/common/BuiltinFactory.java
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```
*/
// Throw a special exception - SSHD-777
```

Found in path(s):
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/session/helpers/AbstractConnectionService.java
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*/
/**
* A special exception that can be thrown by the {@link PasswordAuthenticator} to indicate that the password requires
* changing
 or is not string enough
*
* @see    <A HREF="https://tools.ietf.org/html/rfc4252#section-8">RFC-4252 section 8 -
*        SSH_MSG_USERAUTH_PASSWD_CHANGEREQ</A>
* @author <a href="mailto:dev@mina.apache.org">Apache MINA SSHD Project</a>
*/
```

Found in path(s):
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/server/auth/password/PasswordChangeRequiredException.java
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```

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*/
/**
* Poly1305 one-time message authentication code. This implementation is derived from the public domain C library
* poly1305-donna.
 *
* @see The Poly1305-AES message-authentication code
*/

Found in path(s):
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/mac/Poly1305Mac.java
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*/
/**
  * According to <A HREF="https://tools.ietf.org/html/rfc4252#section-8">RFC 4252 - section 8</A>:
  *
  * <PRE>

```
*     Both the server and the client should check whether the underlying
*     transport layer provides confidentiality (i.e., if encryption is
*     being used).  If no confidentiality is provided ("none" cipher),
*     password authentication SHOULD be disabled.  If there is no
*     confidentiality or no MAC, password change SHOULD be disabled.
* </PRE>
*
* @param  session The {@link SessionContext} being used for authentication
* @return        {@code true} if the context is not {@code null} and the ciphers have been established to anything
*               other than &quot;none&quot;.
* @see           CommonModuleProperties#ALLOW_INSECURE_AUTH
* @see           SessionContext#isSecureSessionTransport(SessionContext)
*/
```

Found in path(s):
* /opt/cola/permits/2301739934_1734521519.854548/0/sshd-osgi-2-12-1-sources-jar/org/apache/sshd/common/auth/UserAuthMethodFactory.java

1.5660 curl 8.5.0-2ubuntu10.6

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1.5661 libcurl4t64 8.5.0-2ubuntu10.6

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1.5662 hibernate-commons-annotations 7.0.3.Final

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1.5663 x-net 0.33.0

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1.5664 math-intrinsics 1.1.0

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1.5665 libldap 2.6.8-r0

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```
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pkgname=py3-license-expression
_pkgname=license_expression
pkgver=30.4.1
pkgrel=0
pkgdesc="Library to parse, compare, simplify and normalize license expressions"
url="https://github.com/nexB/license-expression"
arch="noarch"
license="Apache-2.0"
depends="python3 py3-boolean.py"
makedepends="py3-setuptools py3-setuptools_scm py3-gpep517 py3-wheel"
checkdepends="py3-pytest py3-pytest-xdist"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/l/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir/$_pkgname-$pkgver"

build() {
 gpep517 build-wheel \
  --wheel-dir .dist \
  --output-fd 3 3>&1 >&2
}

check() {
 python3 -m venv --clear --without-pip --system-site-packages .testenv
```

```
 .testenv/bin/python3 -m installer .dist/*.whl
 .testenv/bin/python3 -m pytest
}

package() {
 python3 -m installer -d "$pkgdir" \
  .dist/*.whl
}

sha512sums="
114c630f098939757e49187e35b4e54883266a2ee9ca283724992420ef4c860f9606a8342da0ab74d93627c10805f312
fda3f699cbc7c4fbd47a71e220440fb0
  license_expression-30.4.1.tar.gz
"
# Contributor: Fabian Affolter <fabian@affolter-engineering.ch>
# Maintainer: Fabian Affolter <fabian@affolter-engineering.ch>
pkgname=py3-flake8-copyright
_pkgname=flake8-copyright
pkgver=0.2.4
pkgrel=3
pkgdesc="Extension for flake8 which checks for copyrights"
options="!check" # No testsuite
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="py3-flake8 py3-setuptools"
makedepends="py3-gpep517 py3-wheel"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/${_pkgname:0:1}/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir"/$_pkgname-$pkgver

replaces="py-flake8-copyright"                # Backwards compatibility
provides="py-flake8-copyright=$pkgver-r$pkgrel" # Backwards compatibility

build() {
 gpep517 build-wheel \
  --wheel-dir .dist \
  --output-fd 3 3>&1 >&2
}

package() {
 gpep517 install-wheel --destdir "$pkgdir" \
  .dist/*.whl
}

sha512sums="
a6ab47e1bb715618f075c51f398e18180404871b3b0faf1c2d30701d5203db6bc23771bf22ffb5bafcd8ee856b9b64237
b316bd503ae7dceed6ca284ccd5a74d
```

```
  flake8-copyright-0.2.4.tar.gz
"
# Maintainer: fossdd <fossdd@pwned.life>
pkgname=cargo-license
pkgver=0.6.1
pkgrel=1
pkgdesc="Cargo subcommand to see license of dependencies"
url="https://github.com/onur/cargo-license"
arch="all"
license="MIT"
makedepends="cargo cargo-auditable"
source="$pkgname-$pkgver.tar.gz::https://crates.io/api/v1/crates/cargo-license/$pkgver/download"

prepare() {
 default_prepare

 cargo fetch --target="$CTARGET" --locked
}

build() {
 cargo auditable build --release --frozen
}

check() {
 cargo test --frozen
}

package() {
 install -Dm755 target/release/cargo-license -t "$pkgdir"/usr/bin
}

sha512sums="
36215145e79965be090ae2f5ce6f5eb208465eb67a94c26bed1fe70a131c46c6dc35695e30852759b7366883fbc3caf00
272d796ac634f0a5e1d49232b6b29d5  cargo-license-0.6.1.tar.gz
"
# Contributor: Maxim Karasev <begs@disroot.org>
# Maintainer: mio <miyopan@e.email>
pkgname=bsd-games
pkgver=3.3
pkgrel=2
pkgdesc="traditional text mode games from BSD"
url="https://bsd-games.sourceforge.io/"
arch="all"
license="BSD-3-Clause"
install="$pkgname.post-install"
makedepends="ncurses-dev coreutils" # configure causes busybox expr error
subpackages="$pkgname-doc"
source="https://sourceforge.net/projects/bsd-games/files/bsd-games-$pkgver.tar.gz
```

```
 0001-bsd-games-scores-dir.patch
 "
options="!check" # no tests

build() {
 # some GNU autoconf options are ignored, but it works
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr \
  --sysconfdir=/etc \
  --mandir=/usr/share/man \
  --scoredir=/usr/share/$pkgname
 make
}

package() {
 make DESTDIR="$pkgdir" install
 install -Dm644 LICENSE "$pkgdir"/usr/share/licenses/bsd-games/LICENSE
}

sha512sums="
aaf36d09d4fe68514a5c279063d7e77a9a9a84c447037cba974b29faa07eb80c2aab2379d0699c196b5c27ffe1b2bb2c6
8d3390143e0e62d5e3d210ccfb61294
  bsd-games-3.3.tar.gz
e1def0d4835a877242c4173fae862e278a7858738e0bacacbb045a42bcabec2aa7c72d000bbd2421ce35fe66cdc1f52c0
577b7e278029ca5ed50f7aab22319f6  0001-bsd-games-scores-dir.patch
"
```

Vintage Dreams Waves v 2.0. for Creative Labs' AWE Soundcards
(EMU Soundfont 2 Format)

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vintagedreamworks@hotmail.com
http://www.geocities.com/SiliconValley/Campus/8645/index.html
http://members.nbci.com/silicon39/
http://www.mp3.com/silicon39

https://analoguesque.x10host.com/
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# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21

```
pkgrel=8
pkgdesc="A library for high-performance 2D graphics"
url="https://www.levien.com/libart/"
arch="all"
options="!check"  # No test suite.
license="LGPL-2.0-or-later"
subpackages="$pkgname-dev"
source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2
 "

builddir="$srcdir"/libart_lgpl-$pkgver

prepare() {
 update_config_sub
 default_prepare
}

build() {
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr
 make
}

package() {
 make DESTDIR="$pkgdir" install
}

sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e7
6654309e001aee9bace727b5b4c8589405256a3c020  libart_lgpl-2.3.21.tar.bz2"
```

1.5666 gnupg-keyboxd 2.4.7-r0

1.5666.1 Available under license :

```
# Automatically generated by apkbuild-cpan, template 4
# Contributor: Valery Kartel <valery.kartel@gmail.com>
# Maintainer: Celeste <cielesti@protonmail.com>
maintainer="Celeste <cielesti@protonmail.com>"
pkgname=perl-bsd-resource
pkgver=1.2911
pkgrel=10
#_pkgreal is used by apkbuild-cpan to find modules at MetaCpan
_pkgreal=BSD-Resource
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="https://metacpan.org/release/BSD-Resource/"
arch="all"
```

```
license="Artistic-2.0 OR LGPL-2.0"
depends="perl"
makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/J/JH/JHI/BSD-Resource-$pkgver.tar.gz"
builddir="$srcdir/$_pkgreal-$pkgver"

build() {
 export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
 PERL_MM_USE_DEFAULT=1 perl -I. Makefile.PL \
  INSTALLDIRS=vendor \
  NO_PACKLIST=1 \
  NO_PERLLOCAL=1
 make
}

check() {
 export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
 make test
}

package() {
 make DESTDIR="$pkgdir" install
}

sha512sums="
d0032d41c7c0468ed1c6d8f57b885f6cb97a5039d754c8cb60b2067daedaf53bd15fb6561a3d0f828df16dfa5417f663b
8065ba65f4fea16dc9262728b3b6b85
  BSD-Resource-1.2911.tar.gz
"
```

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see http://www.sqlite.org/copyright.html
# Contributor: Maxim Karasev <begs@disroot.org>
# Maintainer: mio <miyopan@e.email>
pkgname=bsd-games
pkgver=3.3
pkgrel=2
pkgdesc="traditional text mode games from BSD"
url="https://bsd-games.sourceforge.io/"
arch="all"
license="BSD-3-Clause"
install="$pkgname.post-install"

```
makedepends="ncurses-dev coreutils" # configure causes busybox expr error
subpackages="$pkgname-doc"
source="https://sourceforge.net/projects/bsd-games/files/bsd-games-$pkgver.tar.gz
 0001-bsd-games-scores-dir.patch
 "
options="!check" # no tests

build() {
 # some GNU autoconf options are ignored, but it works
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr \
  --sysconfdir=/etc \
  --mandir=/usr/share/man \
  --scoredir=/usr/share/$pkgname
 make
}

package() {
 make DESTDIR="$pkgdir" install
 install -Dm644 LICENSE "$pkgdir"/usr/share/licenses/bsd-games/LICENSE
}

sha512sums="
aaf36d09d4fe68514a5c279063d7e77a9a9a84c447037cba974b29faa07eb80c2aab2379d0699c196b5c27ffe1b2bb2c6
8d3390143e0e62d5e3d210ccfb61294
  bsd-games-3.3.tar.gz
e1def0d4835a877242c4173fae862e278a7858738e0bacacbb045a42bcabec2aa7c72d000bbd2421ce35fe66cdc1f52c0
577b7e278029ca5ed50f7aab22319f6  0001-bsd-games-scores-dir.patch
"
```

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```
# Contributor: Carlo Landmeter <clandmeter@alpinelinux.org>
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pkgname=spdx-licenses
pkgver=3.24.0
pkgrel=0
pkgdesc="Various data formats for the SPDX License List"
url="https://spdx.org/"
arch="noarch"
options="!check" # no test suite
license="CC-BY-3.0"
source="license-list-data-$pkgver.tar.gz::https://github.com/spdx/license-list-data/archive/v$pkgver.tar.gz"
builddir="$srcdir/license-list-data-$pkgver"
subpackages="$pkgname-list"

_types="html json rdfa rdfnt rdfturtle rdfxml template text"

for type in $_types; do
 subpackages="$subpackages $pkgname-$type:_subpkg"
done

package() {
 mkdir -p "$pkgdir"
```

```
}

_subpkg() {
 local type=${subpkgname/$pkgname-/}
 pkgdesc="$pkgdesc ($type)"
 install_if="$pkgname=$pkgver-r$pkgrel"
 mkdir -p "$subpkgdir"/usr/share/spdx
 cp -r "$builddir"/$type "$subpkgdir"/usr/share/spdx/
}

list() {
 pkgdesc="$pkgdesc (licence list)"
 mkdir -p "$subpkgdir"/usr/share/spdx
 local i; for i in "$builddir"/text/*.txt;
 do
  local license=${i##*/}
  echo ${license%.*} >> "$subpkgdir"/usr/share/spdx/license.lst
 done
}

sha512sums="
6eb81424e1b3173dbd8e17859b2e15dfe1c2af8f4da59b7dad0729c038a4cbdba95c34c2c546285fcdbbd41562e39575e
6a6ebb9463b70121e0a12b99d1307e7  license-list-data-3.24.0.tar.gz
"
```

mini_sendmail - accept email on behalf of real sendmail

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```
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# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=8
pkgdesc="A library for high-performance 2D graphics"
url="https://www.levien.com/libart/"
arch="all"
options="!check"  # No test suite.
license="LGPL-2.0-or-later"
subpackages="$pkgname-dev"
source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2
 "

builddir="$srcdir"/libart_lgpl-$pkgver

prepare() {
 update_config_sub
 default_prepare
}

build() {
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr
 make
}

package() {
 make DESTDIR="$pkgdir" install
}

sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e7
6654309e001aee9bace727b5b4c8589405256a3c020  libart_lgpl-2.3.21.tar.bz2"
# Contributor: Patrycja Rosa <alpine@ptrcnull.me>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=bsd-compat-headers
pkgver=0.7.2
pkgrel=6
pkgdesc="BSD compatibility headers (cdefs, queue, tree)"
url="https://gitlab.alpinelinux.org/alpine/aports"
arch="noarch"
license="BSD-2-Clause AND BSD-3-Clause"
source="
 cdefs.h
 queue.h
```

```
 tree.h
"
builddir="$srcdir"
options="!check" # just headers

package() {
 mkdir -p "$pkgdir"
 install -Dm644 -t "$pkgdir"/usr/include/sys \
  cdefs.h queue.h tree.h
}
sha512sums="
37c8fc73c7aea7b490f7850927e2bb91d12137c9e59e22c084146d515696dbc7973b5de92f4c987ba080dd2502ba8312
7006442c3f019b6447a620c0cae73178  cdefs.h
2f0d5e6e4dc3350285cf17009265dddcbe12431c111868eea39bc8cb038ab7c1f2acacbb21735c4e9d4a1fd106a8fc0f86
11ea33987d4faba37dde5ce6da0750  queue.h
d9ac210d81feb8ad2655bc80fb065d3fe20ae4417b32b4a1711e6738a4870140005c13373b5d1846ef3ce5ae6da45f2da
cef2092881eded0a2e94f6a07752ef3  tree.h
"
# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=5
pkgdesc="A library for high-performance 2D graphics"
url="http://www.levien.com/libart/"
arch="all"
license="LGPL"
depends=
makedepends=
subpackages="$pkgname-dev"
source="http://ftp.gnome.org/pub/GNOME/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2
 "

_builddir="$srcdir"/libart_lgpl-$pkgver
build() {
 cd "$_builddir"
 ./configure --prefix=/usr || return 1
 make || return 1
}

package() {
 cd "$_builddir"
 make DESTDIR="$pkgdir" install || return 1
 rm "$pkgdir"/usr/lib/*.la
}

md5sums="08559ff3c67fd95d57b0c5e91a6b4302  libart_lgpl-2.3.21.tar.bz2"
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bordeaux.fr) starting from an initial implementation done by C. Feuille, S. Grosbois, L. Maziere and L. Minihot as a
student practice (Universite Bordeaux, France). For additional information about X-splines, see:
"X-Splines: A Spline Model Designed for the End User" by C. Blanc and C. Schlick, Proceedings of SIGGRAPH'95
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# Contributor: Dhruvin Gandhi <contact@dhru.vin>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=py3-license-expression
_pkgname=license_expression
pkgver=30.4.1
pkgrel=0
pkgdesc="Library to parse, compare, simplify and normalize license expressions"
url="https://github.com/nexB/license-expression"
arch="noarch"
license="Apache-2.0"
depends="python3 py3-boolean.py"
makedepends="py3-setuptools py3-setuptools_scm py3-gpep517 py3-wheel"
checkdepends="py3-pytest py3-pytest-xdist"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/l/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir/$_pkgname-$pkgver"

build() {
```

```
 gpep517 build-wheel \
  --wheel-dir .dist \
  --output-fd 3 3>&1 >&2
}

check() {
 python3 -m venv --clear --without-pip --system-site-packages .testenv
 .testenv/bin/python3 -m installer .dist/*.whl
 .testenv/bin/python3 -m pytest
}

package() {
 python3 -m installer -d "$pkgdir" \
  .dist/*.whl
}

sha512sums="
114c630f098939757e49187e35b4e54883266a2ee9ca283724992420ef4c860f9606a8342da0ab74d93627c10805f312
fda3f699cbc7c4fbd47a71e220440fb0
  license_expression-30.4.1.tar.gz
"
# Contributor: Fabian Affolter <fabian@affolter-engineering.ch>
# Maintainer: Fabian Affolter <fabian@affolter-engineering.ch>
pkgname=py3-flake8-copyright
_pkgname=flake8-copyright
pkgver=0.2.4
pkgrel=3
pkgdesc="Extension for flake8 which checks for copyrights"
options="!check" # No testsuite
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="py3-flake8 py3-setuptools"
makedepends="py3-gpep517 py3-wheel"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/${_pkgname:0:1}/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir"/$_pkgname-$pkgver

replaces="py-flake8-copyright"                # Backwards compatibility
provides="py-flake8-copyright=$pkgver-r$pkgrel" # Backwards compatibility

build() {
 gpep517 build-wheel \
  --wheel-dir .dist \
  --output-fd 3 3>&1 >&2
}

package() {
```

```
 gpep517 install-wheel --destdir "$pkgdir" \
  .dist/*.whl
}

sha512sums="
a6ab47e1bb715618f075c51f398e18180404871b3b0faf1c2d30701d5203db6bc23771bf22ffb5bafcd8ee856b9b64237
b316bd503ae7dceed6ca284ccd5a74d
  flake8-copyright-0.2.4.tar.gz
"
# Maintainer: fossdd <fossdd@pwned.life>
pkgname=cargo-license
pkgver=0.6.1
pkgrel=1
pkgdesc="Cargo subcommand to see license of dependencies"
url="https://github.com/onur/cargo-license"
arch="all"
license="MIT"
makedepends="cargo cargo-auditable"
source="$pkgname-$pkgver.tar.gz::https://crates.io/api/v1/crates/cargo-license/$pkgver/download"

prepare() {
 default_prepare

 cargo fetch --target="$CTARGET" --locked
}

build() {
 cargo auditable build --release --frozen
}

check() {
 cargo test --frozen
}

package() {
 install -Dm755 target/release/cargo-license -t "$pkgdir"/usr/bin
}

sha512sums="
36215145e79965be090ae2f5ce6f5eb208465eb67a94c26bed1fe70a131c46c6dc35695e30852759b7366883fbc3caf00
272d796ac634f0a5e1d49232b6b29d5  cargo-license-0.6.1.tar.gz
"
# Contributor: Dhruvin Gandhi <contact@dhru.vin>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=py3-license-expression
_pkgname=license_expression
pkgver=30.4.0
pkgrel=0
```

```
pkgdesc="Library to parse, compare, simplify and normalize license expressions"
url="https://github.com/nexB/license-expression"
arch="noarch"
license="Apache-2.0"
depends="python3 py3-boolean.py"
makedepends="py3-setuptools py3-setuptools_scm py3-gpep517 py3-wheel"
checkdepends="py3-pytest py3-pytest-xdist"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/l/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir/$_pkgname-$pkgver"

build() {
 gpep517 build-wheel \
  --wheel-dir .dist \
  --output-fd 3 3>&1 >&2
}

check() {
 python3 -m venv --clear --without-pip --system-site-packages .testenv
 .testenv/bin/python3 -m installer .dist/*.whl
 .testenv/bin/python3 -m pytest
}

package() {
 python3 -m installer -d "$pkgdir" \
  .dist/*.whl
}

sha512sums="
cc7cd6b5bd8ea4c99b66f074871ffd7cc78b3e8b1b0d3afd9b95efdb7147c8293db2fac977d684fc34d3d60bd79066a06
dc2bff0a38b130d9d83c63538502db1
  license_expression-30.4.0.tar.gz
"
```

1.5667 libncursesw 6.5_p20241006-r3

1.5667.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
# ncurses 6.5 - patch 20241006 - Thomas E. Dickey
#
# -------------------------------------------------------------------------------
#
# Ncurses 6.5 is at
#   https://invisible-island.net/archives/ncurses/
#   https://invisible-mirror.net/archives/ncurses/
#   https://ftp.gnu.org/gnu/ncurses/
```

```
#
# Patches for ncurses 6.5 can be found at
#   https://invisible-island.net/archives/ncurses/6.5
#   https://invisible-mirror.net/archives/ncurses/6.5
#
# ---------------------------------------------------------------------------
# https://invisible-island.net/archives/ncurses/6.5/ncurses-6.5-20241006.patch.gz
# patch by Thomas E. Dickey <dickey@invisible-island.net>
# created  Sun Oct  6 23:44:01 UTC 2024
# ---------------------------------------------------------------------------
# NEWS                          |    6 +++
# VERSION                       |    2 -
# c++/cursesf.cc                |    6 +--
# c++/cursesf.h
                  |    6 +--
# c++/cursesm.cc                |    6 +--
# c++/cursesm.h                 |    6 +--
# c++/cursesp.cc                |    6 +--
# c++/cursespad.cc              |    6 +--
# c++/cursslk.cc                |   12 +++----
# c++/cursslk.h                 |    6 +--
# dist.mk                       |    4 +-
# misc/terminfo.src             |   23 ++++++++++--
# ncurses/base/lib_screen.c     |    4 +-
# ncurses/base/new_pair.c       |    4 +-
# ncurses/curses.priv.h         |    4 +-
# ncurses/new_pair.h            |    4 +-
# ncurses/tinfo/trim_sgr0.c     |    7 ++--
# ncurses/tty/lib_twait.c       |    6 +--
# package/debian-mingw/changelog   |    4 +-
# package/debian-mingw64/changelog |    4 +-
# package/debian/changelog      |    4 +-
# package/mingw-ncurses.nsi     |    4 +-
# package/mingw-ncurses.spec    |    2 -
# package/ncurses.spec          |    2 -
# package/ncursest.spec         |
   2 -
# test/blue.c                   |   10 +++---
# test/bs.c                     |    8 ++--
# test/cardfile.c               |   12 +++----
# test/chgat.c                  |    6 +--
# test/clip_printw.c            |    8 ++--
# test/color_name.h             |    6 +--
# test/demo_defkey.c            |    4 +-
# test/demo_forms.c             |   22 ++++++-------
# test/demo_menus.c             |   32 ++++++++++---------
# test/demo_new_pair.c          |    4 +-
# test/demo_panels.c            |   16 ++++-----
```

```
# test/demo_termcap.c          |  18 +++++-----
# test/demo_terminfo.c         |  18 +++++-----
# test/dots.c                  |   6 +--
# test/dots_mvcur.c            |   6 +--
# test/dots_termcap.c          |   8 ++--
# test/dup_field.c             |  14 ++++----
# test/filter.c                |   6 +--
# test/form_driver_w.c         |   6 +--
# test/gdc.c                   |  10 +++---
# test/inch_wide.c
                               |   6 +--
# test/inchs.c                 |   6 +--
# test/ins_wide.c              |   6 +--
# test/insdelln.c              |   8 ++--
# test/inserts.c               |   6 +--
# test/knight.c                |   7 ++--
# test/list_keys.c             |   8 ++--
# test/move_field.c            |  18 +++++-----
# test/movewindow.c            |  16 ++++-----
# test/ncurses.c               |  61 ++++++++++++++++++++----------------
# test/padview.c               |  12 +++----
# test/parse_rgb.h             |   6 +--
# test/picsmap.c               |  14 ++++----
# test/popup_msg.c             |   8 ++--
# test/popup_msg.h             |   6 +--
# test/railroad.c              |   6 +--
# test/rain.c                  |  20 ++++++------
# test/redraw.c                |   6 +--
# test/savescreen.c            |  14 ++++----
# test/tclock.c                |   4 +-
# test/test.priv.h
                               |  10 +++---
# test/test_add_wchstr.c       |   6 +--
# test/test_addchstr.c         |   6 +--
# test/test_addstr.c           |   6 +--
# test/test_addwstr.c          |   6 +--
# test/test_endwin.c           |   6 +--
# test/test_get_wstr.c         |   8 ++--
# test/test_getstr.c           |   8 ++--
# test/test_instr.c            |   8 ++--
# test/test_inwstr.c           |   8 ++--
# test/test_mouse.c            |   4 +-
# test/test_opaque.c           |   8 ++--
# test/test_sgr.c              |  26 +++++++--------
# test/test_tparm.c            |  12 +++----
# test/test_vidputs.c          |   6 +--
# test/testcurs.c              |   8 ++--
# test/testscanw.c             |   6 +--
```

```
# test/view.c                    |   21 +++++-------
# 83 files changed, 392 insertions(+), 369 deletions(-)
# ------------------------------------------------------------------------------
Index: NEWS
Prereq:
  1.4185
--- ncurses-6.5-20240928+/NEWS 2024-09-28 20:27:44.000000000 +0000
+++ ncurses-6.5-20241006/NEWS 2024-10-06 08:53:45.000000000 +0000
@@ -26,7 +26,7 @@
-- sale, use or other dealings in this Software without prior written        --
-- authorization.                                                            --
------------------------------------------------------------------------------
--- $Id: NEWS,v 1.4185 2024/09/28 20:27:44 tom Exp $
+-- $Id: NEWS,v 1.4188 2024/10/06 08:53:45 tom Exp $
------------------------------------------------------------------------------

This is a log of changes that ncurses has gone through since Zeyd started
@@ -46,6 +46,10 @@
Changes through 1.9.9e did not credit all contributions;
it is not possible to add this information.

+20241006
+ + fixes for compiler warnings/cppcheck.
+ + use xterm+alt+title in wezterm -TD
+
20240928
 + improve error-message from infocmp when a terminal entry cannot be
   opened (patch by Branden Robinson).
Index:
 VERSION
--- ncurses-6.5-20240928+/VERSION 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/VERSION 2024-10-06 08:53:45.000000000 +0000
@@ -1 +1 @@
-5:0:10 6.5 20240928
+5:0:10 6.5 20241006
Index: c++/cursesf.cc
Prereq:  1.26
--- ncurses-6.5-20240928+/c++/cursesf.cc 2021-04-17 18:11:08.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursesf.cc 2024-10-05 22:47:12.000000000 +0000
@@ -1,6 +1,6 @@
// * this is for making emacs happy: -*-Mode: C++;-*-
/****************************************************************************
- * Copyright 2019-2020,2021 Thomas E. Dickey                                *
+ * Copyright 2019-2021,2024 Thomas E. Dickey                                *
 * Copyright 1998-2005,2011 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -36,7 +36,7 @@
```

```
#include "cursesf.h"
#include "cursesapp.h"

-MODULE_ID("$Id: cursesf.cc,v 1.26 2021/04/17 18:11:08 tom Exp $")
+MODULE_ID("$Id: cursesf.cc,v 1.27 2024/10/05 22:47:12 tom Exp $")

NCursesFormField::~NCursesFormField () THROWS(NCursesException)
{
@@ -76,7 +76,7 @@

void NCursesForm::setDefaultAttributes()
{
-  NCursesApplication* S = NCursesApplication::getApplication();
+  const NCursesApplication* S = NCursesApplication::getApplication();

  int n = count();
  if (n > 0) {
Index: c++/cursesf.h
Prereq:  1.39
--- ncurses-6.5-20240928+/c++/cursesf.h 2022-08-20 20:52:15.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursesf.h 2024-10-05 22:47:12.000000000 +0000
@@ -1,7 +1,7 @@
// * This makes emacs happy -*-Mode: C++;-*-
// vile:cppmode
/****************************************************************************
- * Copyright 2019-2021,2022 Thomas E. Dickey                                *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                *
 * Copyright 1998-2012,2014 Free Software
 Foundation, Inc.                 *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -33,7 +33,7 @@
 *   Author: Juergen Pfeifer, 1997                                          *
 ****************************************************************************/

-// $Id: cursesf.h,v 1.39 2022/08/20 20:52:15 tom Exp $
+// $Id: cursesf.h,v 1.40 2024/10/05 22:47:12 tom Exp $

#ifndef NCURSES_CURSESF_H_incl
#define NCURSES_CURSESF_H_incl 1
@@ -384,7 +384,7 @@
  }

  inline void *get_user() {
-    UserHook* uptr = reinterpret_cast<UserHook*>(::form_userptr (form));
+    const UserHook* uptr = reinterpret_cast<UserHook*>(::form_userptr (form));
    assert (uptr != 0 && uptr->m_back==this && uptr->m_owner==form);
    return uptr->m_user;
```

```
  }
Index: c++/cursesm.cc
Prereq:  1.27
--- ncurses-6.5-20240928+/c++/cursesm.cc 2021-04-17 18:11:08.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursesm.cc 2024-10-05
 22:47:12.000000000 +0000
@@ -1,6 +1,6 @@
// * this is for making emacs happy: -*-Mode: C++;-*-
/****************************************************************************
- * Copyright 2019-2020,2021 Thomas E. Dickey                                *
+ * Copyright 2019-2021,2024 Thomas E. Dickey                                *
 * Copyright 1998-2011,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -36,7 +36,7 @@
#include "cursesm.h"
#include "cursesapp.h"

-MODULE_ID("$Id: cursesm.cc,v 1.27 2021/04/17 18:11:08 tom Exp $")
+MODULE_ID("$Id: cursesm.cc,v 1.28 2024/10/05 22:47:12 tom Exp $")

NCursesMenuItem::~NCursesMenuItem() THROWS(NCursesException)
{
@@ -168,7 +168,7 @@
void
NCursesMenu::setDefaultAttributes()
{
-  NCursesApplication* S = NCursesApplication::getApplication();
+
  const NCursesApplication* S = NCursesApplication::getApplication();
  if (S) {
    ::set_menu_fore(menu, S->foregrounds());
    ::set_menu_back(menu, S->backgrounds());
Index: c++/cursesm.h
Prereq:  1.35
--- ncurses-6.5-20240928+/c++/cursesm.h 2022-08-20 20:52:15.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursesm.h 2024-10-05 22:47:12.000000000 +0000
@@ -1,6 +1,6 @@
// * This makes emacs happy -*-Mode: C++;-*-
/****************************************************************************
- * Copyright 2019-2020,2022 Thomas E. Dickey                                *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                *
 * Copyright 1998-2012,2014 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -32,7 +32,7 @@
 *   Author: Juergen Pfeifer, 1997                                          *
 ****************************************************************************/
```

```
-// $Id: cursesm.h,v 1.35 2022/08/20 20:52:15 tom Exp $
+// $Id: cursesm.h,v 1.36 2024/10/05 22:47:12 tom Exp $

#ifndef NCURSES_CURSESM_H_incl
#define NCURSES_CURSESM_H_incl 1
@@ -245,7 +245,7 @@
  }

  inline void *get_user() {
-    UserHook* uptr = STATIC_CAST(UserHook*)(::menu_userptr (menu));
+    const UserHook* uptr = STATIC_CAST(UserHook*)(::menu_userptr (menu));
    assert (uptr != 0 && uptr->m_back==this && uptr->m_owner==menu);
    return uptr->m_user;
  }
Index: c++/cursesp.cc
Prereq:  1.27
--- ncurses-6.5-20240928+/c++/cursesp.cc 2020-02-02 23:34:34.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursesp.cc 2024-10-05 22:47:12.000000000 +0000
@@ -1,6 +1,6 @@
// * this is for making emacs happy: -*-Mode: C++;-*-
/****************************************************************************
- * Copyright 2019,2020 Thomas E. Dickey                                     *
+ * Copyright 2019-2020,2024
 Thomas E. Dickey                                                           *
 * Copyright 1998-2003,2005 Free Software Foundation, Inc.                   *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -35,7 +35,7 @@
#include "internal.h"
#include "cursesp.h"

-MODULE_ID("$Id: cursesp.cc,v 1.27 2020/02/02 23:34:34 tom Exp $")
+MODULE_ID("$Id: cursesp.cc,v 1.28 2024/10/05 22:47:12 tom Exp $")

NCursesPanel* NCursesPanel::dummy = static_cast<NCursesPanel*>(0);

@@ -64,7 +64,7 @@
void
NCursesPanel::redraw()
{
-  PANEL *pan;
+  const PANEL *pan;

  pan = ::panel_above(NULL);
  while (pan) {
Index: c++/cursespad.cc
Prereq:  1.18
```

```
--- ncurses-6.5-20240928+/c++/cursespad.cc 2020-02-02 23:34:34.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursespad.cc 2024-10-05 22:47:12.000000000 +0000
@@ -1,6 +1,6 @@
// * this is for making emacs happy: -*-Mode: C++;-*-
/******************************************************************************
-
 * Copyright 2020 Thomas E. Dickey                                          *
+ * Copyright 2020,2024 Thomas E. Dickey                                     *
 * Copyright 1999-2012,2013 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -36,7 +36,7 @@

#include <cursesw.h>

-MODULE_ID("$Id: cursespad.cc,v 1.18 2020/02/02 23:34:34 tom Exp $")
+MODULE_ID("$Id: cursespad.cc,v 1.19 2024/10/05 22:47:12 tom Exp $")

NCursesPad::NCursesPad(int nlines, int ncols)
  : NCursesWindow(),
@@ -221,7 +221,7 @@
void NCursesFramedPad::OnOperation(int pad_req)
{
  (void) pad_req;
-  NCursesWindow* W = Win();
+  const NCursesWindow* W = Win();
  NCursesWindow* W2 = getWindow();

  if ((static_cast<NCursesWindow*>(0) != W) && (static_cast<NCursesWindow*>(0) != W2)) {
Index: c++/cursslk.cc
Prereq:
  1.22
--- ncurses-6.5-20240928+/c++/cursslk.cc 2024-06-15 21:07:30.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursslk.cc 2024-10-05 19:36:22.000000000 +0000
@@ -35,10 +35,10 @@
#include "internal.h"
#include "cursesapp.h"

-MODULE_ID("$Id: cursslk.cc,v 1.22 2024/06/15 21:07:30 tom Exp $")
+MODULE_ID("$Id: cursslk.cc,v 1.23 2024/10/05 19:36:22 tom Exp $")

Soft_Label_Key_Set::Soft_Label_Key&
-  Soft_Label_Key_Set::Soft_Label_Key::operator=(char *text)
+  Soft_Label_Key_Set::Soft_Label_Key::operator=(const char *text)
{
  delete[] label;
  size_t need = 1 + ::strlen(text);
@@ -111,11 +111,11 @@
```

```
void Soft_Label_Key_Set::activate_label(int i, bool bf) {
  if (!b_attrInit) {
-    NCursesApplication* A = NCursesApplication::getApplication();
+    const NCursesApplication* A = NCursesApplication::getApplication();
    if (A) attrset(A->labels());
    b_attrInit = TRUE;
  }
-  Soft_Label_Key& K = (*this)[i];
+  const Soft_Label_Key& K = (*this)[i];
  if (ERR==::slk_set(K.num,bf?K.label:"",K.format))
     Error("slk_set");
  noutrefresh();
@@ -124,12 +124,12 @@
void Soft_Label_Key_Set::activate_labels(bool bf)
{
  if (!b_attrInit) {
-    NCursesApplication* A = NCursesApplication::getApplication();
+    const NCursesApplication* A = NCursesApplication::getApplication();
    if (A) attrset(A->labels());
    b_attrInit = TRUE;
  }
  for(int i=1; i <= num_labels; i++) {
-    Soft_Label_Key& K = (*this)[i];
+    const Soft_Label_Key& K = (*this)[i];
    if (ERR==::slk_set(K.num,bf?K.label:"",K.format))
      Error("slk_set");
  }
Index: c++/cursslk.h
Prereq:  1.19
--- ncurses-6.5-20240928+/c++/cursslk.h 2021-04-17 18:11:08.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursslk.h 2024-10-05 22:47:12.000000000 +0000
@@ -1,7 +1,7 @@
// * this is for making emacs happy: -*-Mode: C++;-*-
// vile:cppmode
/*****************************************************************************
- * Copyright 2019-2020,2021 Thomas E. Dickey
            *
+ * Copyright 2019-2021,2024 Thomas E. Dickey                          *
 * Copyright 1998-2003,2005 Free Software Foundation, Inc.                *
 *                                                                        *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -33,7 +33,7 @@
 *   Author: Juergen Pfeifer, 1997                                        *
 *****************************************************************************/

-// $Id: cursslk.h,v 1.19 2021/04/17 18:11:08 tom Exp $
+// $Id: cursslk.h,v 1.20 2024/10/05 22:47:12 tom Exp $
```

```
#ifndef NCURSES_CURSSLK_H_incl
#define NCURSES_CURSSLK_H_incl
@@ -62,7 +62,7 @@

  public:
    // Set the text of the Label
-    Soft_Label_Key& operator=(char *text);
+    Soft_Label_Key& operator=(const char *text);

    // Set the Justification of the Label
    Soft_Label_Key& operator=(Justification just) {
Index: dist.mk
Prereq:  1.1634
--- ncurses-6.5-20240928+/dist.mk 2024-09-28
 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/dist.mk 2024-10-06 08:53:45.000000000 +0000
@@ -26,7 +26,7 @@
# use or other dealings in this Software without prior written               #
# authorization.                                                             #
##############################################################################
-# $Id: dist.mk,v 1.1634 2024/09/28 09:53:21 tom Exp $
+# $Id: dist.mk,v 1.1636 2024/10/06 08:53:45 tom Exp $
# Makefile for creating ncurses distributions.
#
# This only needs to be used directly as a makefile by developers, but
@@ -38,7 +38,7 @@
# These define the major/minor/patch versions of ncurses.
NCURSES_MAJOR = 6
NCURSES_MINOR = 5
-NCURSES_PATCH = 20240928
+NCURSES_PATCH = 20241006

# We don't append the patch to the version, since this only applies to releases
VERSION = $(NCURSES_MAJOR).$(NCURSES_MINOR)
Index: misc/terminfo.src
--- ncurses-6.5-20240928+/misc/terminfo.src 2024-09-07 16:23:31.000000000
 +0000
+++ ncurses-6.5-20241006/misc/terminfo.src 2024-10-05 16:04:17.000000000 +0000
@@ -6,8 +6,8 @@
# Report bugs and new terminal descriptions to
# bug-ncurses@gnu.org
#
-# $Revision: 1.1150 $
-# $Date: 2024/09/07 16:23:31 $
+# $Revision: 1.1153 $
+# $Date: 2024/10/05 16:04:17 $
#
```

```
# The original header is preserved below for reference.  It is noted that there
# is a "newer" version which differs in some cosmetic details (but actually
@@ -8060,6 +8060,17 @@
# "wezterm is a terminal emulator with support for modern features
#  such as fonts with ligatures, hyperlinks, tabs and multiple windows."
#
+# The documentation bears mention.  It refers to the "ANSI" standard and
+#  https://wezfurlong.org/wezterm/what-is-a-terminal.html#ansi-and-ecma-48
+# X3.64 (withdrawn long ago).  A related website
+# https://github.com/wez/ecma48
+# states that ECMA-48 was issued in 1979 and not revised since.  Actually that
+# was the second revision; the fifth revision in 1991 is current.  The source
+#
 code refers to the second revision in a half-dozen places.  Further, there
+# are three times as many references to Wikipedia as to xterm's documentation.
+# The git commit comments in several instances hint at an incomplete reading
+# of the relevant standards.
+#
# wezterm-20240203-110809-5046fc22 tested with MacOS
# General:
# + initial screensize is now 80x24
@@ -8094,7 +8105,7 @@
# + poor (doesn't copy anyone, most of the results are wrong)
# vttest:
# + DA is VT5xx with sixel, selective erase, user windows, color
-# + DA2 is VT220 version 277
+# + DA2 is VT220 version 277, perhaps a reference to xterm #277
# + only the VT100 character set works, contrary to DA/DA2.
# + no NRCS, either
# + double-sized character work, with some debris
@@ -8136,7 +8147,7 @@
 use=ansi+rep, use=ansi+sgrdim, use=bracketed+paste,
 use=ecma+index, use=ecma+italics, use=ecma+strikeout,
 use=report+version, use=vt220+cvis,
- use=xterm+256color2, use=xterm+alt1049,
+ use=xterm+256color2,
 use=xterm+alt+title,
 use=xterm+focus, use=xterm+pcc2, use=xterm+pce2,
 use=xterm+pcf2, use=xterm+sl-alt, use=xterm+sm+1006,
 use=xterm+tmux,
@@ -27644,4 +27655,8 @@
# 2024-09-07
# + update comments -TD
#
+# 2024-10-05
+# + use xterm+alt+title in wezterm -TD
+# + update comments -TD
+#
```

```
######## SHANTIH!  SHANTIH!  SHANTIH!
Index: ncurses/base/lib_screen.c
Prereq:  1.108
--- ncurses-6.5-20240928+/ncurses/base/lib_screen.c 2024-09-22 20:20:36.000000000 +0000
+++ ncurses-6.5-20241006/ncurses/base/lib_screen.c 2024-10-05 20:47:44.000000000 +0000
@@ -42,7 +42,7 @@
#define CUR SP_TERMTYPE
#endif

-MODULE_ID("$Id: lib_screen.c,v 1.108 2024/09/22 20:20:36 tom Exp $")
+MODULE_ID("$Id: lib_screen.c,v 1.109 2024/10/05 20:47:44 tom Exp $")

#define MAX_SIZE 0x3fff  /* 16k is big enough for a window or pad */

@@ -943,7 +943,7 @@
 * Replace a window covering the whole screen, i.e., newscr or curscr.
 */
static WINDOW *
-replace_window(WINDOW *target, FILE *source)
+replace_window(const
 WINDOW *target, FILE *source)
{
   WINDOW *result = getwin(source);
#if NCURSES_EXT_FUNCS
Index: ncurses/base/new_pair.c
Prereq:  1.24
--- ncurses-6.5-20240928+/ncurses/base/new_pair.c 2024-07-27 19:22:23.000000000 +0000
+++ ncurses-6.5-20241006/ncurses/base/new_pair.c 2024-10-05 20:51:29.000000000 +0000
@@ -61,7 +61,7 @@

#endif

-MODULE_ID("$Id: new_pair.c,v 1.24 2024/07/27 19:22:23 tom Exp $")
+MODULE_ID("$Id: new_pair.c,v 1.25 2024/10/05 20:51:29 tom Exp $")

#if NCURSES_EXT_COLORS

@@ -193,7 +193,7 @@
 * pair table.
 */
NCURSES_EXPORT(void)
-_nc_reset_color_pair(SCREEN *sp, int pair, colorpair_t * next)
+_nc_reset_color_pair(SCREEN *sp, int pair, const colorpair_t * next)
{
   colorpair_t *last;

Index: ncurses/curses.priv.h
Prereq:  1.691
```

```
--- ncurses-6.5-20240928+/ncurses/curses.priv.h 2024-09-28 15:35:01.000000000 +0000
+++ ncurses-6.5-20241006/ncurses/curses.priv.h 2024-10-05 21:01:50.000000000 +0000
@@ -35,7 +35,7 @@
 ******************************************************************************/

/*
- * $Id: curses.priv.h,v 1.691 2024/09/28 15:35:01 tom Exp $
+ * $Id: curses.priv.h,v 1.692 2024/10/05 21:01:50 tom Exp $
 *
 * curses.priv.h
 *
@@ -2170,7 +2170,7 @@
extern NCURSES_EXPORT(int) _nc_read_termcap_entry (const char *const, TERMTYPE2 *const);
extern NCURSES_EXPORT(int) _nc_setup_tinfo(const char *, TERMTYPE2 *);
extern NCURSES_EXPORT(int) _nc_setupscreen (int, int, FILE *, int, int);
-extern NCURSES_EXPORT(int) _nc_timed_wait (SCREEN *, int, int, int * EVENTLIST_2nd(_nc_eventlist *));
+extern NCURSES_EXPORT(int) _nc_timed_wait (const SCREEN *, int, int, int *
EVENTLIST_2nd(_nc_eventlist *));
extern NCURSES_EXPORT(int) _nc_trans_string (char *, const char *);
extern NCURSES_EXPORT(void) _nc_init_termtype (TERMTYPE2 *const);
extern NCURSES_EXPORT(void) _nc_do_color (int, int, int, NCURSES_OUTC);
Index: ncurses/new_pair.h
Prereq:  1.14
--- ncurses-6.5-20240928+/ncurses/new_pair.h 2024-05-25 23:10:33.000000000 +0000
+++
 ncurses-6.5-20241006/ncurses/new_pair.h 2024-10-05 20:57:47.000000000 +0000
@@ -34,7 +34,7 @@
/*
 * Common type definitions and macros for new_pair.c, lib_color.c
 *
- * $Id: new_pair.h,v 1.14 2024/05/25 23:10:33 tom Exp $
+ * $Id: new_pair.h,v 1.15 2024/10/05 20:57:47 tom Exp $
 */

#ifndef NEW_PAIR_H
@@ -116,7 +116,7 @@
#if NCURSES_EXT_FUNCS && NCURSES_EXT_COLORS
extern NCURSES_EXPORT(void)     _nc_copy_pairs(SCREEN*, colorpair_t*, colorpair_t*, int);
extern NCURSES_EXPORT(void)     _nc_free_ordered_pairs(SCREEN*);
-extern NCURSES_EXPORT(void)     _nc_reset_color_pair(SCREEN*, int, colorpair_t*);
+extern NCURSES_EXPORT(void)     _nc_reset_color_pair(SCREEN*, int, const colorpair_t*);
extern NCURSES_EXPORT(void)     _nc_set_color_pair(SCREEN*, int, int);
#else
#define _nc_free_ordered_pairs(sp) /* nothing */
Index: ncurses/tinfo/trim_sgr0.c
Prereq:  1.23
--- ncurses-6.5-20240928+/ncurses/tinfo/trim_sgr0.c 2024-07-27 19:22:23.000000000 +0000
+++ ncurses-6.5-20241006/ncurses/tinfo/trim_sgr0.c 2024-10-05
```

```
 20:53:48.000000000 +0000
@@ -37,7 +37,7 @@

#include <tic.h>

-MODULE_ID("$Id: trim_sgr0.c,v 1.23 2024/07/27 19:22:23 tom Exp $")
+MODULE_ID("$Id: trim_sgr0.c,v 1.24 2024/10/05 20:53:48 tom Exp $")

#undef CUR
#define CUR tp->
@@ -237,12 +237,10 @@

    if (PRESENT(exit_attribute_mode)
 && PRESENT(set_attributes)) {
- bool found = FALSE;
 char *on = set_attribute_9(tp, 1);
 char *off = set_attribute_9(tp, 0);
 char *end = strdup(exit_attribute_mode);
 char *tmp;
- size_t i, j, k;

 TR(TRACE_DATABASE, ("checking if we can trim sgr0 based on sgr"));
 TR(TRACE_DATABASE, ("sgr0       %s", _nc_visbuf(end)));
@@ -255,6 +253,9 @@
     FreeIfNeeded(off);
 } else if (similar_sgr(off, end)
     && !similar_sgr(off, on)) {
+     bool found = FALSE;
+     size_t i, j, k;
+
     TR(TRACE_DATABASE, ("adjusting sgr(9:off) : %s", _nc_visbuf(off)));
     result = off;
     /*
Index: ncurses/tty/lib_twait.c
Prereq:  1.81
--- ncurses-6.5-20240928+/ncurses/tty/lib_twait.c 2023-09-16
 16:30:40.000000000 +0000
+++ ncurses-6.5-20241006/ncurses/tty/lib_twait.c 2024-10-05 22:47:12.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2018-2020,2023 Thomas E. Dickey                                  *
+ * Copyright 2018-2023,2024 Thomas E. Dickey                                  *
 * Copyright 1998-2015,2016 Free Software Foundation, Inc.                    *
 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -76,7 +76,7 @@
#endif
#undef CUR
```

```
-MODULE_ID("$Id: lib_twait.c,v 1.81 2023/09/16 16:30:40 tom Exp $")
+MODULE_ID("$Id: lib_twait.c,v 1.82 2024/10/05 22:47:12 tom Exp $")

/*
 * Returns an elapsed time, in milliseconds (if possible).
@@ -168,7 +168,7 @@
 * descriptors.
 */
NCURSES_EXPORT(int)
-_nc_timed_wait(SCREEN *sp MAYBE_UNUSED,
+_nc_timed_wait(const
 SCREEN *sp MAYBE_UNUSED,
        int mode MAYBE_UNUSED,
        int milliseconds,
        int *timeleft
Index: package/debian-mingw/changelog
--- ncurses-6.5-20240928+/package/debian-mingw/changelog 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/debian-mingw/changelog 2024-10-06 08:53:45.000000000 +0000
@@ -1,8 +1,8 @@
-ncurses6td (6.5+20240928) unstable; urgency=low
+ncurses6td (6.5+20241006) unstable; urgency=low

  * latest weekly patch

- -- Thomas E. Dickey <dickey@invisible-island.net>  Sat, 28 Sep 2024 05:53:21 -0400
+ -- Thomas E. Dickey <dickey@invisible-island.net>  Sun, 06 Oct 2024 04:53:45 -0400

ncurses6 (5.9+20131005) unstable; urgency=low

Index: package/debian-mingw64/changelog
--- ncurses-6.5-20240928+/package/debian-mingw64/changelog 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/debian-mingw64/changelog 2024-10-06 08:53:45.000000000 +0000
@@ -1,8 +1,8 @@
-ncurses6td (6.5+20240928) unstable; urgency=low
+ncurses6td
 (6.5+20241006) unstable; urgency=low

  * latest weekly patch

- -- Thomas E. Dickey <dickey@invisible-island.net>  Sat, 28 Sep 2024 05:53:21 -0400
+ -- Thomas E. Dickey <dickey@invisible-island.net>  Sun, 06 Oct 2024 04:53:45 -0400

ncurses6 (5.9+20131005) unstable; urgency=low

Index: package/debian/changelog
--- ncurses-6.5-20240928+/package/debian/changelog 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/debian/changelog 2024-10-06 08:53:45.000000000 +0000
```

```
@@ -1,8 +1,8 @@
-ncurses6td (6.5+20240928) unstable; urgency=low
+ncurses6td (6.5+20241006) unstable; urgency=low

  * latest weekly patch

- -- Thomas E. Dickey <dickey@invisible-island.net>  Sat, 28 Sep 2024 05:53:21 -0400
+ -- Thomas E. Dickey <dickey@invisible-island.net>  Sun, 06 Oct 2024 04:53:45 -0400

ncurses6 (5.9+20120608) unstable; urgency=low

Index: package/mingw-ncurses.nsi
Prereq:  1.669
--- ncurses-6.5-20240928+/package/mingw-ncurses.nsi 2024-09-28 09:53:21.000000000 +0000
+++
 ncurses-6.5-20241006/package/mingw-ncurses.nsi 2024-10-06 08:53:45.000000000 +0000
@@ -1,4 +1,4 @@
-; $Id: mingw-ncurses.nsi,v 1.669 2024/09/28 09:53:21 tom Exp $
+; $Id: mingw-ncurses.nsi,v 1.671 2024/10/06 08:53:45 tom Exp $

; TODO add examples
; TODO bump ABI to 6
@@ -10,7 +10,7 @@
!define VERSION_MAJOR "6"
!define VERSION_MINOR "5"
!define VERSION_YYYY  "2024"
-!define VERSION_MMDD  "0928"
+!define VERSION_MMDD  "1006"
!define VERSION_PATCH ${VERSION_YYYY}${VERSION_MMDD}

!define MY_ABI   "5"
Index: package/mingw-ncurses.spec
--- ncurses-6.5-20240928+/package/mingw-ncurses.spec 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/mingw-ncurses.spec 2024-10-06 08:53:45.000000000 +0000
@@ -3,7 +3,7 @@
Summary: shared libraries for terminal handling
Name: mingw32-ncurses6
Version: 6.5
-Release: 20240928
+Release: 20241006
License: X11
Group: Development/Libraries
URL: https://invisible-island.net/ncurses/
Index: package/ncurses.spec
--- ncurses-6.5-20240928+/package/ncurses.spec 2024-09-28
 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/ncurses.spec 2024-10-06 08:53:45.000000000 +0000
@@ -1,7 +1,7 @@
```

```
Summary: shared libraries for terminal handling
Name: ncurses6
Version: 6.5
-Release: 20240928
+Release: 20241006
License: X11
Group: Development/Libraries
URL: https://invisible-island.net/ncurses/
Index: package/ncursest.spec
--- ncurses-6.5-20240928+/package/ncursest.spec 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/ncursest.spec 2024-10-06 08:53:45.000000000 +0000
@@ -1,7 +1,7 @@
Summary: Curses library with POSIX thread support.
Name: ncursest6
Version: 6.5
-Release: 20240928
+Release: 20241006
License: X11
Group: Development/Libraries
Source: ncurses-%{version}-%{release}.tgz
Index: test/blue.c
Prereq:  1.55
--- ncurses-6.5-20240928+/test/blue.c 2022-12-10 23:31:31.000000000 +0000
+++ ncurses-6.5-20241006/test/blue.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
-
 * Copyright 2019-2021,2022 Thomas E. Dickey                                  *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                  *
 * Copyright 1998-2016,2017 Free Software Foundation, Inc.                    *
 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -37,7 +37,7 @@
 ******************************************************************************/

/*
- * $Id: blue.c,v 1.55 2022/12/10 23:31:31 tom Exp $
+ * $Id: blue.c,v 1.56 2024/10/05 19:26:24 tom Exp $
 */

#include <test.priv.h>
@@ -437,7 +437,7 @@
static void
use_pc_display(void)
{
-    char *check = nl_langinfo(CODESET);
+    const char *check = nl_langinfo(CODESET);
    if (!strcmp(check, "UTF-8")) {
```

```
#if USE_WIDEC_SUPPORT
 suits = uglyphs;
@@ -448,8 +448,8 @@
     !strcmp(check, "CP437") ||
     !strcmp(check,
 "IBM850") ||
     !strcmp(check, "CP850")) {
-     char *smacs = tigetstr("smacs");
-     char *smpch = tigetstr("smpch");
+     const char *smacs = tigetstr("smacs");
+     const char *smpch = tigetstr("smpch");
     /*
      * The ncurses library makes this check to decide whether to allow
      * the alternate character set for the (normally) nonprinting codes.
Index: test/bs.c
Prereq:  1.79
--- ncurses-6.5-20240928+/test/bs.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/bs.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2018-2022,2023 Thomas E. Dickey                                  *
+ * Copyright 2018-2023,2024 Thomas E. Dickey                                  *
 * Copyright 1998-2016,2017 Free Software Foundation, Inc.                    *
 *                                                                            *
 * Permission is hereby granted, free of charge,
 to any person obtaining a  *
@@ -35,7 +35,7 @@
 * v2.0 featuring strict ANSI/POSIX conformance, November 1993.
 * v2.1 with ncurses mouse support, September 1995
 *
- * $Id: bs.c,v 1.79 2023/05/27 20:13:10 tom Exp $
+ * $Id: bs.c,v 1.80 2024/10/05 19:26:24 tom Exp $
 */

#include <test.priv.h>
@@ -147,7 +147,7 @@
   bool placed;  /* has it been placed on the board? */
} ship_t;

-static bool checkplace(int b, ship_t * ss, int vis);
+static bool checkplace(int b, const ship_t * ss, int vis);

#define SHIPIT(name, symbol, length) { name, 0, symbol, length, 0,0, 0, FALSE }

@@ -686,7 +686,7 @@
}

static bool
```

```
-checkplace(int b, ship_t * ss, int vis)
+checkplace(int b, const ship_t * ss, int vis)
{
   int l, xend, yend;

Index: test/cardfile.c
Prereq:  1.51
--- ncurses-6.5-20240928+/test/cardfile.c 2022-12-04 00:40:11.000000000 +0000
+++ ncurses-6.5-20241006/test/cardfile.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
-
 * Copyright 2019-2021,2022 Thomas E. Dickey                                  *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                  *
 * Copyright 1999-2016,2017 Free Software Foundation, Inc.                    *
 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey
 *
- * $Id: cardfile.c,v 1.51 2022/12/04 00:40:11 tom Exp $
+ * $Id: cardfile.c,v 1.52 2024/10/05 19:26:24 tom Exp $
 *
 * File format: text beginning in column 1 is a title; other text is content.
 */
@@ -161,7 +161,7 @@
}

static CARD *
-find_card(char *title)
+find_card(const char *title)
{
   CARD *card;

@@ -173,7 +173,7 @@
}

static void
-read_data(char *fname)
+read_data(const char *fname)
{
   FILE *fp;

@@ -341,7 +341,7 @@
}

static FIELD **
```

```
-make_fields(CARD * p, int form_high,
 int form_wide)
+make_fields(const CARD * p, int form_high, int form_wide)
{
   FIELD **f = typeCalloc(FIELD *, (size_t) 3);

@@ -385,7 +385,7 @@
/******************************************************************************/

static void
-cardfile(char *fname)
+cardfile(const char *fname)
{
   WINDOW *win;
   CARD *p;
Index: test/chgat.c
Prereq:  1.21
--- ncurses-6.5-20240928+/test/chgat.c 2024-06-29 17:45:32.000000000 +0000
+++ ncurses-6.5-20241006/test/chgat.c 2024-10-06 22:35:55.000000000 +0000
@@ -27,7 +27,7 @@
 * authorization.                                               *
 ****************************************************************************/
/*
- * $Id: chgat.c,v 1.21 2024/06/29 17:45:32 tom Exp $
+ * $Id: chgat.c,v 1.23 2024/10/06 22:35:55 tom Exp $
 *
 * test-driver for chgat/wchgat/mvchgat/mvwchgat
 */
@@ -160,7 +160,7 @@
}

static void
-do_subwindow(WINDOW *win, STATUS * sp, void func(WINDOW *))
+do_subwindow(WINDOW *win, const STATUS
 * sp, void func(WINDOW *))
{
   WINDOW *win1 = newwin(sp->y_max - 2, sp->x_max - 2,
    sp->y_beg + 1, sp->x_beg + 1);
@@ -204,7 +204,7 @@
static void
show_help(WINDOW *win)
{
-    static const char *msgs[] =
+    static NCURSES_CONST char *msgs[] =
   {
 "Basic commands:"
 ,"Use h/j/k/l or arrow keys to move the cursor."
Index: test/clip_printw.c
```

```
Prereq:  1.23
--- ncurses-6.5-20240928+/test/clip_printw.c 2023-09-30 19:57:44.000000000 +0000
+++ ncurses-6.5-20241006/test/clip_printw.c 2024-10-06 22:36:25.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2019-2022,2023 Thomas E. Dickey                                  *
+ * Copyright 2019-2023,2024 Thomas E. Dickey                                  *
 * Copyright 2008-2016,2017 Free Software Foundation, Inc.                    *
 *                                                                            *
 * Permission is hereby granted, free of charge,
 to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                             *
 ******************************************************************************/
/*
- * $Id: clip_printw.c,v 1.23 2023/09/30 19:57:44 tom Exp $
+ * $Id: clip_printw.c,v 1.25 2024/10/06 22:36:25 tom Exp $
 *
 * demonstrate how to use printw with/without wrapping.
 */
@@ -212,7 +212,7 @@
}

static void
-do_subwindow(WINDOW *win, STATUS * sp, void func(WINDOW *))
+do_subwindow(WINDOW *win, const STATUS * sp, void func(WINDOW *))
{
   WINDOW *win1 = newwin(sp->y_max - (2 * MARGIN),
    sp->x_max - (2 * MARGIN),
@@ -268,7 +268,7 @@
static void
show_help(WINDOW *win)
{
-    static const char *msgs[] =
+    static NCURSES_CONST char *msgs[] =
   {
 "Basic commands:"
 ,"Use h/j/k/l or arrow keys to move the cursor."
Index: test/color_name.h
Prereq:  1.9
--- ncurses-6.5-20240928+/test/color_name.h 2021-04-24 23:25:29.000000000 +0000
+++ ncurses-6.5-20241006/test/color_name.h 2024-10-05
 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2018-2020,2021 Thomas E. Dickey                                  *
+ * Copyright 2018-2021,2024 Thomas E. Dickey                                  *
 * Copyright 2011-2012,2016 Free Software Foundation, Inc.                    *
```

```
 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                             *
 ****************************************************************************/
/*
- * $Id: color_name.h,v 1.9 2021/04/24 23:25:29 tom Exp $
+ * $Id: color_name.h,v 1.10 2024/10/05 19:26:24 tom Exp $
 */

#ifndef __COLORNAME_H
@@ -63,7 +63,6 @@
{
    int result = 0;
    char *endp = 0;
-    size_t n;

    if ((result = (int) strtol(color,
 &endp, 0)) >= 0
 && (endp == 0 || *endp == 0)) {
@@ -71,6 +70,7 @@
    } else if (!strcmp(color, "default")) {
 result = -1;
    } else {
+ size_t n;
 for (n = 0; n < SIZEOF(the_color_names); ++n) {
     if (!strcmp(the_color_names[n], color)) {
  result = (int) n;
Index: test/demo_defkey.c
Prereq:  1.35
--- ncurses-6.5-20240928+/test/demo_defkey.c 2024-01-20 20:46:12.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_defkey.c 2024-10-05 18:20:04.000000000 +0000
@@ -27,7 +27,7 @@
 * authorization.                                                             *
 ****************************************************************************/
/*
- * $Id: demo_defkey.c,v 1.35 2024/01/20 20:46:12 tom Exp $
+ * $Id: demo_defkey.c,v 1.36 2024/10/05 18:20:04 tom Exp $
 *
 * Demonstrate the define_key() function.
 * Thomas Dickey - 2002/11/23
@@ -199,7 +199,7 @@
}

static void
-redefine(WINDOW *win, char *string, int code)
+redefine(WINDOW *win, const char *string, int code)
{
```

```
   really_define_key(win, string, code);
}
Index: test/demo_forms.c
Prereq:  1.63
--- ncurses-6.5-20240928+/test/demo_forms.c 2023-11-11 00:29:53.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_forms.c 2024-10-06 21:15:12.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2018-2022,2023 Thomas E. Dickey                                  *
+ * Copyright 2018-2023,2024 Thomas E. Dickey                                  *
 * Copyright 2003-2016,2017 Free Software Foundation, Inc.                    *
 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                             *
 ******************************************************************************/
/*
- * $Id: demo_forms.c,v 1.63 2023/11/11 00:29:53 tom Exp $
+ * $Id: demo_forms.c,v 1.67
 2024/10/06 21:15:12 tom Exp $
 *
 * Demonstrate a variety of functions from the form library.
 * Thomas Dickey - 2003/4/26
@@ -148,7 +148,7 @@
}

static FIELD *
-make_label(const char *label, int frow, int fcol)
+make_label(NCURSES_CONST char *label, int frow, int fcol)
{
   FIELD *f = new_field(1, (int) strlen(label), frow, fcol, 0, 0);

@@ -242,7 +242,7 @@
#define O_SELECTABLE (O_ACTIVE | O_VISIBLE)

static FIELD *
-another_field(FORM *form, const FIELD *const field)
+another_field(NCURSES_CONST FORM *form, NCURSES_CONST FIELD *const field)
{
   FIELD **f = form_fields(form);
   FIELD *result = 0;
@@ -306,9 +306,9 @@
}

static void
-show_current_field(WINDOW *win, FORM *form)
+show_current_field(WINDOW *win, NCURSES_CONST FORM *form)
```

```
{
-    FIELD *field;
+    NCURSES_CONST FIELD *field;
    int field_rows, field_cols, field_max;
    int currow, curcol;

@@ -325,7 +325,7 @@
    waddch(win, '\n');

    if ((field = current_field(form)) != 0) {
- FIELDTYPE *type;
+ NCURSES_CONST
 FIELDTYPE *type;
 int nbuf;

 wprintw(win, "Page %d%s, Field %d/%d%s:",
@@ -383,7 +383,7 @@

 waddstr(win, "\n");
 for (nbuf = 0; nbuf <= 2; ++nbuf) {
-     char *buffer;
+     NCURSES_CONST char *buffer;
     if ((buffer = field_buffer(field, nbuf)) != 0) {
  wprintw(win, "buffer %d:", nbuf);
  (void) wattrset(win, A_REVERSE);
@@ -408,8 +408,8 @@
    int c;
    unsigned n = 0;
    int pg;
-    const char *fname;
-    static const char *my_enum[] =
+    NCURSES_CONST char *fname;
+    static NCURSES_CONST char *my_enum[] =
    {"first", "second", "third", 0};

#ifdef NCURSES_MOUSE_VERSION
@@ -515,7 +515,7 @@
    f[n] = (FIELD *) 0;

    if ((form = new_form(f)) != 0) {
- WINDOW *w;
+ NCURSES_CONST WINDOW *w;
 WINDOW *also;
 int finished = 0;

Index: test/demo_menus.c
Prereq:  1.80
--- ncurses-6.5-20240928+/test/demo_menus.c 2023-05-27 20:13:10.000000000 +0000
```

```
+++ ncurses-6.5-20241006/test/demo_menus.c 2024-10-06 19:58:28.000000000 +0000
@@ -1,5
 +1,5 @@
/******************************************************************************
- * Copyright 2019-2022,2023 Thomas E. Dickey                                  *
+ * Copyright 2019-2023,2024 Thomas E. Dickey                                  *
 * Copyright 2003-2016,2017 Free Software Foundation, Inc.                    *
 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                             *
 ******************************************************************************/
/*
- * $Id: demo_menus.c,v 1.80 2023/05/27 20:13:10 tom Exp $
+ * $Id: demo_menus.c,v 1.82 2024/10/06 19:58:28 tom Exp $
 *
 * Demonstrate a variety of functions from the menu library.
 * Thomas Dickey - 2005/4/9
@@ -185,7 +185,7 @@
}

static int
-menu_getc(MENU * m)
+menu_getc(NCURSES_CONST MENU * m)
{
   return wGetchar(menu_win(m));
 }
@@ -214,7 +214,7 @@
my_menu_init(MENU * menu)
{
   Trace(("called MenuHook my_menu_init"));
-   mvwprintw(status, 2, 0, "menu_init %p", (void *) menu);
+   mvwprintw(status, 2, 0, "menu_init %p", (const void *) menu);
   wclrtoeol(status);
   wrefresh(status);
}
@@ -223,7 +223,7 @@
my_menu_term(MENU * menu)
{
   Trace(("called MenuHook my_menu_term"));
-   mvwprintw(status, 2, 0, "menu_term %p", (void *) menu);
+   mvwprintw(status, 2, 0, "menu_term %p", (const void *) menu);
   wclrtoeol(status);
   wrefresh(status);
}
@@ -231,7 +231,7 @@
static void
my_item_init(MENU * menu)
```

```
{
-    ITEM *item = current_item(menu);
+    NCURSES_CONST ITEM *item = current_item(menu);
    const char *name = item_name(item);

    Trace(("called MenuHook my_item_init (%s)", name));
@@ -243,7 +243,7 @@
static void
my_item_term(MENU * menu)
{
-    ITEM *item = current_item(menu);
+    NCURSES_CONST ITEM *item = current_item(menu);
    const char *name = item_name(item);

    Trace(("called MenuHook my_item_term (%s)", name));
@@ -348,7 +348,7 @@

/* force the given menu to appear */
static void
-menu_display(MENU * m)
+menu_display(NCURSES_CONST MENU * m)
{
    touchwin(menu_win(m));
    wrefresh(menu_win(m));
@@ -584,10 +584,10 @@
 * the others
 */
static bool
-update_trace_menu(MENU * m)
+update_trace_menu(NCURSES_CONST MENU * m)
{
    ITEM **items;
-    ITEM *i;
+    NCURSES_CONST ITEM *i;
    bool changed = FALSE;

    items = menu_items(m);
@@ -613,7 +613,7 @@
    int result;

    for (ip = menu_items(mpTrace); *ip; ip++) {
- MENU_DATA *td = (MENU_DATA *) item_userptr(*ip);
+ NCURSES_CONST MENU_DATA *td = (MENU_DATA *) item_userptr(*ip);
 unsigned mask = td->mask;
 if (mask == 0)
     set_item_value(*ip, _nc_tracing == 0);
@@ -628,7 +628,7 @@
     unsigned newtrace = 0;
```

```
     for (ip = menu_items(mpTrace); *ip; ip++) {
  if (item_value(*ip)) {
-      MENU_DATA *td = (MENU_DATA *) item_userptr(*ip);
+      NCURSES_CONST
 MENU_DATA *td = (MENU_DATA *) item_userptr(*ip);
      newtrace |= td->mask;
  }
     }
@@ -718,7 +718,9 @@
}

static int
-move_menu(MENU * menu, MENU * current, int by_y, int by_x)
+move_menu(NCURSES_CONST MENU * menu,
+   NCURSES_CONST MENU * current,
+   int by_y, int by_x)
{
    WINDOW *top_win = menu_win(menu);
    WINDOW *sub_win = menu_sub(menu);
@@ -798,7 +800,7 @@
#endif /* defined(KEY_RESIZE) && NCURSES_EXT_FUNCS */

static void
-show_status(int ch, MENU * menu)
+show_status(int ch, NCURSES_CONST MENU * menu)
{
    wmove(status, 0, 0);
    wprintw(status, "key %s, menu %d, mark %s, match %s",
@@ -919,7 +921,7 @@
 wrefresh(menu_win(last_menu));
 if (code == E_UNKNOWN_COMMAND
     || code == E_NOT_POSTED) {
-     ITEM *item = current_item(last_menu);
+     NCURSES_CONST ITEM *item = current_item(last_menu);
     MENU_DATA *td = (MENU_DATA *) item_userptr(item);
     td->func((int) td->mask);
 }
Index: test/demo_new_pair.c
Prereq:  1.28
--- ncurses-6.5-20240928+/test/demo_new_pair.c 2024-06-29
 19:30:26.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_new_pair.c 2024-10-05 18:21:44.000000000 +0000
@@ -27,7 +27,7 @@
 * authorization.                                           *
 ****************************************************************************/
/*
- * $Id: demo_new_pair.c,v 1.28 2024/06/29 19:30:26 tom Exp $
+ * $Id: demo_new_pair.c,v 1.29 2024/10/05 18:21:44 tom Exp $
```

```
 *
 * Demonstrate the alloc_pair() function.
 */
@@ -49,7 +49,7 @@
static bool
valid_cap(NCURSES_CONST char *name)
{
-    char *value = tigetstr(name);
+    const char *value = tigetstr(name);
    return (value != 0 && value != (char *) -1) ? TRUE : FALSE;
}

Index: test/demo_panels.c
Prereq:  1.48
--- ncurses-6.5-20240928+/test/demo_panels.c 2022-12-04 00:40:11.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_panels.c 2024-10-06 20:01:21.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
-
 * Copyright 2018-2020,2022 Thomas E. Dickey                                  *
+ * Copyright 2018-2022,2024 Thomas E. Dickey                                  *
 * Copyright 2003-2016,2017 Free Software Foundation, Inc.                    *
 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                             *
 ******************************************************************************/
/*
- * $Id: demo_panels.c,v 1.48 2022/12/04 00:40:11 tom Exp $
+ * $Id: demo_panels.c,v 1.50 2024/10/06 20:01:21 tom Exp $
 *
 * Demonstrate a variety of functions from the panel library.
 */
@@ -42,7 +42,7 @@
#define TEMP_POS '>'

typedef void (*InitPanel) (void);
-typedef void (*FillPanel) (PANEL *);
+typedef void (*FillPanel) (NCURSES_CONST PANEL *);

static bool use_colors = FALSE;
static bool
 unboxed = FALSE;
@@ -301,7 +301,7 @@
 int code;
 int y0, x0;
 int y1, x1;
- WINDOW *win = panel_window(pans[which]);
```

```
+ NCURSES_CONST WINDOW *win = panel_window(pans[which]);
 char also[80];

 getbegyx(win, y0, x0);
@@ -368,7 +368,7 @@
}

static void
-fill_panel(PANEL *pan)
+fill_panel(NCURSES_CONST PANEL *pan)
{
   WINDOW *win = panel_window(pan);
   const char *userptr = (const char *) panel_userptr(pan);
@@ -388,7 +388,7 @@
}

static void
-fill_unboxed(PANEL *pan)
+fill_unboxed(NCURSES_CONST PANEL *pan)
{
   WINDOW *win = panel_window(pan);
   const char *userptr = (const char *) panel_userptr(pan);
@@ -431,7 +431,7 @@
}

static void
-fill_wide_panel(PANEL *pan)
+fill_wide_panel(NCURSES_CONST PANEL *pan)
{
   WINDOW *win = panel_window(pan);
   int num = ((const char *) panel_userptr(pan))[1];
@@ -453,7 +453,7 @@
#define MAX_PANELS 5

static int
-which_panel(PANEL *px[MAX_PANELS + 1], PANEL *pan)
+which_panel(PANEL *px[MAX_PANELS + 1], NCURSES_CONST
 PANEL *pan)
{
   int result = 0;
   int j;
Index: test/demo_termcap.c
Prereq:  1.65
--- ncurses-6.5-20240928+/test/demo_termcap.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_termcap.c 2024-10-06 20:05:09.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2019-2022,2023 Thomas E. Dickey                                  *
```

```
+ * Copyright 2019-2023,2024 Thomas E. Dickey                          *
 * Copyright 2005-2016,2017 Free Software Foundation, Inc.              *
 *                                                                      *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey
 *
- * $Id: demo_termcap.c,v 1.65 2023/05/27 20:13:10 tom Exp $
+ * $Id: demo_termcap.c,v 1.70 2024/10/06 20:05:09 tom Exp $
 *
 * A simple demo of the termcap interface.
 */
@@ -256,7 +256,7 @@

   * to hold all of the strings extracted from the terminal entry.
    */
   char area[1024], *ap = area;
-   char *str;
+   NCURSES_CONST char *str;
   int num;

   if ((str = tgetstr(cap, &ap)) != 0) {
@@ -289,7 +289,7 @@
}

static void
-brute_force(const char *name)
+brute_force(NCURSES_CONST char *name)
{
   char buffer[1024];

@@ -369,7 +369,7 @@
#ifdef NCURSES_VERSION
 if (x_opt && (my_blob == 0) && y_opt) {
#if NCURSES_XNAMES
-    TERMTYPE *term = (TERMTYPE *) cur_term;
+    NCURSES_CONST TERMTYPE *term = (TERMTYPE *) cur_term;
    if (term != 0
  && ((NUM_BOOLEANS(term) != BOOLCOUNT)
     || (NUM_NUMBERS(term) != NUMCOUNT)
@@ -781,12 +781,12 @@
{
   int ch;
   int n;
-   char *name;
+   NCURSES_CONST char *name;
   bool a_opt = FALSE;
```

```
#if defined(NCURSES_VERSION) || defined(HAVE_CURSES_DATA_OSPEED)
   bool v_opt = FALSE;
#endif
-    char *input_name = 0;
+    NCURSES_CONST char *input_name = 0;

   int repeat;
   int r_opt = 1;
@@ -867,7
 +867,7 @@
    } else if ((name = getenv("TERM")) != 0) {
  brute_force(name);
    } else {
-  static char dumb[] = "dumb";
+  static NCURSES_CONST char dumb[] = "dumb";
  brute_force(dumb);
    }
 }
@@ -894,7 +894,7 @@
    } else if ((name = getenv("TERM")) != 0) {
  demo_termcap(name);
    } else {
-  static char dumb[] = "dumb";
+  static NCURSES_CONST char dumb[] = "dumb";
  demo_termcap(dumb);
    }
 }
Index: test/demo_terminfo.c
Prereq:  1.57
--- ncurses-6.5-20240928+/test/demo_terminfo.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_terminfo.c 2024-10-06 21:16:43.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2019-2022,2023 Thomas E. Dickey                                  *
+ * Copyright 2019-2023,2024 Thomas E. Dickey                                  *
 * Copyright 2009-2016,2017 Free Software Foundation, Inc.                    *
 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey
 *
- * $Id: demo_terminfo.c,v 1.57 2023/05/27 20:13:10 tom Exp $
+ * $Id: demo_terminfo.c,v 1.59 2024/10/06 21:16:43 tom Exp $
 *
 * A simple demo of the terminfo interface.
 */
```

```
@@ -253,7 +253,7 @@
#define LegalItem(c,n) (n)

static void
-brute_force(const char *name)
+brute_force(NCURSES_CONST char *name)
{
#define MAX_FORCE 5  /* omit "colors", since CPU-time is a problem */
   static const char legal[] = "\
@@ -324,7 +324,7 @@
#endif

static void
-demo_terminfo(char *name)
+demo_terminfo(NCURSES_CONST char *name)
{
   unsigned n;
   NCURSES_CONST char *cap;
@@ -366,7 +366,7 @@
   if (x_opt && (my_blob == 0)) {
 if (y_opt) {
#if NCURSES_XNAMES
-     TERMTYPE *term = (TERMTYPE *) cur_term;
+     const TERMTYPE *term = (TERMTYPE *) cur_term;
     if (term != 0
  && ((NUM_BOOLEANS(term)
 != BOOLCOUNT)
      || (NUM_NUMBERS(term) != NUMCOUNT)
@@ -813,9 +813,9 @@
   int ch;
   int n;
   int repeat;
-    char *name;
+    NCURSES_CONST char *name;
   int r_opt = 1;
-    char *input_name = 0;
+    const char *input_name = 0;

   while ((ch = getopt(argc, argv, OPTS_COMMON "abd:e:fi:nqr:sxy")) != -1) {
 switch (ch) {
@@ -891,7 +891,7 @@
     } else if ((name = getenv("TERM")) != 0) {
  brute_force(name);
     } else {
-  static char dumb[] = "dumb";
+  static NCURSES_CONST char dumb[] = "dumb";
  brute_force(dumb);
     }
```

```
 }
@@ -918,7 +918,7 @@
     } else if ((name = getenv("TERM")) != 0) {
  demo_terminfo(name);
     } else {
-  static char dumb[] = "dumb";
+  static NCURSES_CONST char dumb[] = "dumb";
  demo_terminfo(dumb);
     }
 }
Index: test/dots.c
Prereq:  1.45
--- ncurses-6.5-20240928+/test/dots.c 2023-01-07 17:21:48.000000000 +0000
+++ ncurses-6.5-20241006/test/dots.c 2024-10-06 21:17:54.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
-
 * Copyright 2019-2022,2023 Thomas E. Dickey                                  *
+ * Copyright 2019-2023,2024 Thomas E. Dickey                                  *
 * Copyright 1999-2013,2017 Free Software Foundation, Inc.                    *
 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey <dickey@clark.net> 1999
 *
- * $Id: dots.c,v 1.45 2023/01/07 17:21:48 tom Exp $
+ * $Id: dots.c,v 1.46 2024/10/06 21:17:54 tom Exp $
 *
 * A simple demo of the terminfo interface.
 */
@@ -61,7 +61,7 @@
}

static bool
-outs(const char *s)
+outs(NCURSES_CONST char *s)
{
   if (VALID_STRING(s)) {
 tputs(s, 1, outc);
Index: test/dots_mvcur.c
Prereq:  1.31
--- ncurses-6.5-20240928+/test/dots_mvcur.c 2023-01-07 17:21:48.000000000 +0000
+++ ncurses-6.5-20241006/test/dots_mvcur.c 2024-10-06
 21:17:54.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2019-2022,2023 Thomas E. Dickey                                  *
```

```
+ * Copyright 2019-2023,2024 Thomas E. Dickey                          *
 * Copyright 2007-2013,2017 Free Software Foundation, Inc.              *
 *                                                                      *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey - 2007
 *
- * $Id: dots_mvcur.c,v 1.31 2023/01/07 17:21:48 tom Exp $
+ * $Id: dots_mvcur.c,v 1.32 2024/10/06 21:17:54 tom Exp $
 *
 * A simple demo of the terminfo interface, and mvcur.
 */
@@ -62,7 +62,7 @@
}

static bool
-outs(const char *s)
+outs(NCURSES_CONST char *s)
{
   if (VALID_STRING(s)) {
 tputs(s, 1, outc);
Index: test/dots_termcap.c
Prereq:  1.33
--- ncurses-6.5-20240928+/test/dots_termcap.c 2024-08-31
 15:55:46.000000000 +0000
+++ ncurses-6.5-20241006/test/dots_termcap.c 2024-10-06 21:18:35.000000000 +0000
@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey
 *
- * $Id: dots_termcap.c,v 1.33 2024/08/31 15:55:46 tom Exp $
+ * $Id: dots_termcap.c,v 1.35 2024/10/06 21:18:35 tom Exp $
 *
 * A simple demo of the termcap interface.
 */
@@ -113,7 +113,7 @@
}

static bool
-outs(char *s)
+outs(NCURSES_CONST char *s)
{
   if (VALID_STRING(s)) {
 tputs(s, 1, outc);
@@ -178,7 +178,7 @@
get_number(NCURSES_CONST char *cap, const char *env)
{
```

```
    int result = tgetnum(cap);
-    char *value = env ? getenv(env) : 0;
+    const char *value = env ? getenv(env) : 0;
    if (value != 0 && *value != 0) {
 char *next = 0;
 long check = strtol(value, &next, 10);
@@ -229,7 +229,7 @@
    double c;
    char buffer[1024];
    char area[1024];
-    char *name;
+    NCURSES_CONST char *name;
    size_t need;
    char *my_env;

Index: test/dup_field.c
Prereq:  1.9
--- ncurses-6.5-20240928+/test/dup_field.c 2024-06-29
 17:45:32.000000000 +0000
+++ ncurses-6.5-20241006/test/dup_field.c 2024-10-06 20:07:19.000000000 +0000
@@ -26,7 +26,7 @@
 * authorization.                                               *
 ******************************************************************************/
/*
- * $Id: dup_field.c,v 1.9 2024/06/29 17:45:32 tom Exp $
+ * $Id: dup_field.c,v 1.11 2024/10/06 20:07:19 tom Exp $
 *
 * Demonstrate dup_field().
 */
@@ -146,27 +146,27 @@
}

static FieldAttrs *
-my_field_attrs(FIELD *f)
+my_field_attrs(NCURSES_CONST FIELD *f)
{
    return (FieldAttrs *) field_userptr(f);
}

static int
-buffer_length(FIELD *f)
+buffer_length(NCURSES_CONST FIELD *f)
{
    return my_field_attrs(f)->row_lengths[0];
}

static void
-set_buffer_length(FIELD *f, int length)
```

```
+set_buffer_length(NCURSES_CONST FIELD *f, int length)
{
   my_field_attrs(f)->row_lengths[0] = length;
}

static int
-offset_in_field(FORM *form)
+offset_in_field(NCURSES_CONST
 FORM *form)
{
-    FIELD *field = current_field(form);
+    NCURSES_CONST FIELD *field = current_field(form);
   int currow, curcol;

   form_getyx(form, currow, curcol);
@@ -245,7 +245,7 @@

 default:
     modified = (ch < MIN_FORM_COMMAND
-   && isprint(ch));
+   && isprint(UChar(ch)));
     break;
 }

Index: test/filter.c
Prereq:  1.38
--- ncurses-6.5-20240928+/test/filter.c 2022-12-04 00:40:11.000000000 +0000
+++ ncurses-6.5-20241006/test/filter.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2019-2020,2022 Thomas E. Dickey                                  *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                  *
 * Copyright 1998-2016,2017 Free Software Foundation, Inc.                    *
 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@
 -30,7 +30,7 @@
/*
 * Author:  Thomas E. Dickey 1998
 *
- * $Id: filter.c,v 1.38 2022/12/04 00:40:11 tom Exp $
+ * $Id: filter.c,v 1.39 2024/10/05 19:26:24 tom Exp $
 *
 * An example of the 'filter()' function in ncurses, this program prompts
 * for commands and executes them (like a command shell).  It illustrates
@@ -65,7 +65,7 @@
   if (clocked) {
 if (limit >= 3) {
```

```
     time_t now = time((time_t *) 0);
-    struct tm *my = localtime(&now);
+    const struct tm *my = localtime(&now);
     char buffer[80];
     int skip, y, x;
     int margin;
Index: test/form_driver_w.c
Prereq:  1.17
--- ncurses-6.5-20240928+/test/form_driver_w.c 2022-12-10 23:31:31.000000000 +0000
+++ ncurses-6.5-20241006/test/form_driver_w.c 2024-10-06 23:13:40.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2020,2022 Thomas E. Dickey                                     *
+ * Copyright 2020-2022,2024 Thomas E. Dickey
                                                                            *
 * Copyright 2013-2014,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -32,7 +32,7 @@
 ****************************************************************************/

/*
- * $Id: form_driver_w.c,v 1.17 2022/12/10 23:31:31 tom Exp $
+ * $Id: form_driver_w.c,v 1.18 2024/10/06 23:13:40 tom Exp $
 *
 * Test form_driver_w (int, int, wchar_t), a wide char aware
 * replacement of form_driver.
@@ -68,7 +68,7 @@
int
main(int argc, char *argv[])
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
    {
 "Commands:",
 "  ^D,^Q,ESC           - quit program",
Index: test/gdc.c
Prereq:  1.60
--- ncurses-6.5-20240928+/test/gdc.c 2024-06-29 19:59:06.000000000 +0000
+++ ncurses-6.5-20241006/test/gdc.c 2024-10-06 20:08:59.000000000 +0000
@@ -34,7 +34,7 @@
 * modified 10-18-89
 for curses (jrl)
 * 10-18-89 added signal handling
 *
- * $Id: gdc.c,v 1.60 2024/06/29 19:59:06 tom Exp $
+ * $Id: gdc.c,v 1.62 2024/10/06 20:08:59 tom Exp $
 */
```

```
#include <test.priv.h>
@@ -181,7 +181,7 @@
   int check;
   time_t result;
   char c = 0;
-   struct tm *tm;
+   NCURSES_CONST struct tm *tm;

   switch (sscanf(value, "%d:%d:%d%c", &hh, &mm, &ss, &c)) {
   default:
@@ -243,7 +243,7 @@
main(int argc, char *argv[])
{
   time_t now;
-   struct tm *tm;
+   NCURSES_CONST struct tm *tm;
   long t, a;
   int i, j, s, k, ch;
   int count = 0;
@@ -293,7 +293,7 @@

   InitAndCatch({
 if (redirected) {
-     char *name = getenv("TERM");
+     NCURSES_CONST char *name = getenv("TERM");
     if (name == 0
  || newterm(name, ofp, ifp) == 0) {
  fprintf(stderr, "cannot open terminal\n");
@@ -431,7 +431,7 @@
     _nc_STRNCPY(buf, ctime(&now), (size_t) 30);
     {
  char *d2 = buf + 10;
-  char *s2 = buf + 19;
+  NCURSES_CONST char *s2 = buf + 19;
   while ((*d2++ = *s2++) != '\0') ;
     }
     MvAddStr(16, 30, buf);
Index: test/inch_wide.c
Prereq:  1.13
--- ncurses-6.5-20240928+/test/inch_wide.c 2022-12-10 23:55:34.000000000 +0000
+++ ncurses-6.5-20241006/test/inch_wide.c 2024-10-06 23:14:31.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2019-2020,2022 Thomas E. Dickey                                  *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                  *
 * Copyright 2007-2010,2017 Free Software Foundation, Inc.                    *
 *                                                                            *
```

```
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                            *
 ****************************************************************************/
/*
- * $Id: inch_wide.c,v 1.13 2022/12/10 23:55:34 tom Exp $
+
 * $Id: inch_wide.c,v 1.14 2024/10/06 23:14:31 tom Exp $
 */
/*
       int in_wch(cchar_t *wcval);
@@ -61,7 +61,7 @@
static int
test_inchs(int level, char **argv, WINDOW *chrwin, WINDOW *strwin)
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
    {
 "Test input from screen using inch(), etc., in a moveable viewport.",
 "",
Index: test/inchs.c
Prereq:  1.19
--- ncurses-6.5-20240928+/test/inchs.c 2022-12-11 00:01:39.000000000 +0000
+++ ncurses-6.5-20241006/test/inchs.c 2024-10-06 21:17:54.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2019-2020,2022 Thomas E. Dickey                                *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                *
 * Copyright 2007-2012,2017 Free Software Foundation, Inc.                   *
 *                                                                           *
 * Permission is hereby granted, free of
 charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                            *
 ****************************************************************************/
/*
- * $Id: inchs.c,v 1.19 2022/12/11 00:01:39 tom Exp $
+ * $Id: inchs.c,v 1.20 2024/10/06 21:17:54 tom Exp $
 *
 * Author: Thomas E Dickey
 */
@@ -71,7 +71,7 @@
static int
test_inchs(int level, char **argv, WINDOW *chrwin, WINDOW *strwin)
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
    {
```

```
 "Test input from screen using inch(), etc., in a moveable viewport.",
 "",
Index: test/ins_wide.c
Prereq:  1.30
--- ncurses-6.5-20240928+/test/ins_wide.c 2022-12-10 22:28:50.000000000 +0000
+++ ncurses-6.5-20241006/test/ins_wide.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2020,2022 Thomas E. Dickey                                     *
+ * Copyright
 2020-2022,2024 Thomas E. Dickey                                            *
 * Copyright 2002-2016,2017 Free Software Foundation, Inc.                   *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ******************************************************************************/
/*
- * $Id: ins_wide.c,v 1.30 2022/12/10 22:28:50 tom Exp $
+ * $Id: ins_wide.c,v 1.31 2024/10/05 19:26:24 tom Exp $
 *
 * Demonstrate the wins_wstr() and wins_wch functions.
 * Thomas Dickey - 2002/11/23
@@ -73,7 +73,7 @@
static int n_opt = -1;

static void
-legend(WINDOW *win, int level, Options state, wchar_t *buffer, int length)
+legend(WINDOW *win, int level, Options state, const wchar_t *buffer, int length)
{
    const char *showstate;

Index: test/insdelln.c
Prereq:  1.15
--- ncurses-6.5-20240928+/test/insdelln.c 2022-12-10
 23:31:31.000000000 +0000
+++ ncurses-6.5-20241006/test/insdelln.c 2024-10-06 21:08:52.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2019-2020,2022 Thomas E. Dickey                                *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                *
 * Copyright 2008-2014,2017 Free Software Foundation, Inc.                   *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ******************************************************************************/
/*
```

```
- * $Id: insdelln.c,v 1.15 2022/12/10 23:31:31 tom Exp $
+ * $Id: insdelln.c,v 1.17 2024/10/06 21:08:52 tom Exp $
 *
 * test-driver for deleteln, wdeleteln, insdelln, winsdelln, insertln, winsertln
  */
@@ -160,7 +160,7 @@
}

static void
-do_subwindow(WINDOW *win, STATUS * sp, void func(WINDOW *))
+do_subwindow(WINDOW *win, const STATUS * sp, void func(WINDOW *))
{
   WINDOW *win1 = newwin(sp->y_max - 2, sp->x_max - 2,
    sp->y_beg + 1, sp->x_beg + 1);
@@ -204,7 +204,7 @@
static void
show_help(WINDOW *win)
{
-   static const char *table[] =
+   static NCURSES_CONST char *table[] =
   {
 "Basic commands:"
 ,"Use h/j/k/l or arrow keys to move the cursor."
Index: test/inserts.c
Prereq:  1.34
--- ncurses-6.5-20240928+/test/inserts.c 2022-12-10 22:28:50.000000000 +0000
+++ ncurses-6.5-20241006/test/inserts.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2020,2022 Thomas E. Dickey                                       *
+ * Copyright 2020-2022,2024 Thomas E. Dickey                                  *
 * Copyright 2002-2016,2017 Free Software Foundation, Inc.
      *
 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                             *
 ******************************************************************************/
/*
- * $Id: inserts.c,v 1.34 2022/12/10 22:28:50 tom Exp $
+ * $Id: inserts.c,v 1.35 2024/10/05 19:26:24 tom Exp $
 *
 * Demonstrate the winsstr() and winsch functions.
 * Thomas Dickey - 2002/10/19
@@ -98,7 +98,7 @@
}

static int
```

```
-ColOf(char *buffer, int length, int margin)
+ColOf(const char *buffer, int length, int margin)
{
   int n;
   int result;
Index: test/knight.c
Prereq:  1.52
--- ncurses-6.5-20240928+/test/knight.c 2022-12-04 00:40:11.000000000 +0000
+++ ncurses-6.5-20241006/test/knight.c 2024-10-05 19:38:58.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright
 2018-2021,2022 Thomas E. Dickey                          *
+ * Copyright 2018-2022,2024 Thomas E. Dickey                          *
 * Copyright 1998-2013,2017 Free Software Foundation, Inc.                *
 *                                                                        *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -34,7 +34,7 @@
 * Eric S. Raymond <esr@snark.thyrsus.com> July 22 1995.  Mouse support
 * added September 20th 1995.
 *
- * $Id: knight.c,v 1.52 2022/12/04 00:40:11 tom Exp $
+ * $Id: knight.c,v 1.53 2024/10/05 19:38:58 tom Exp $
 */

#include <test.priv.h>
@@ -450,7 +450,8 @@
}

static bool
-evaluate_move(SQUARES squares, HISTORY * doneData, int doneSize, int row, int column)
+evaluate_move(SQUARES squares, const HISTORY * doneData, int doneSize,
+       int row, int column)
{
   if (doneSize <= 1)
 return (TRUE);
Index: test/list_keys.c
Prereq:  1.33
--- ncurses-6.5-20240928+/test/list_keys.c 2023-11-11
 00:35:05.000000000 +0000
+++ ncurses-6.5-20241006/test/list_keys.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2018-2022,2023 Thomas E. Dickey                          *
+ * Copyright 2018-2023,2024 Thomas E. Dickey                          *
 * Copyright 2016,2017 Free Software Foundation, Inc.                     *
 *                                                                        *
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```

```
@@ -27,7 +27,7 @@
 * authorization.                                             *
 ****************************************************************************/
/*
- * $Id: list_keys.c,v 1.33 2023/11/11 00:35:05 tom Exp $
+ * $Id: list_keys.c,v 1.34 2024/10/05 19:26:24 tom Exp $
 *
 * Author: Thomas E Dickey
 *
@@ -297,7 +297,7 @@
#if NCURSES_XNAMES
    if (x_opt) {
  for (k = 0; k < count; ++k) {
-     TERMTYPE *term;
+     const TERMTYPE *term;
     set_curterm(terms[k]);
     term = (TERMTYPE *) cur_term;
     total += (size_t) (NUM_STRINGS(term) - STRCOUNT);
@@ -348,7 +348,7 @@
 widths1 = (int) strlen(modifier);

    for (k = 0; k < count; ++k) {
- char *value;
+ const char *value;
 set_curterm(terms[k]);
 if ((value = termname()) == NULL)
     failed("termname");
Index: test/move_field.c
Prereq:  1.16
--- ncurses-6.5-20240928+/test/move_field.c 2024-06-29 17:45:02.000000000 +0000
+++ ncurses-6.5-20241006/test/move_field.c 2024-10-06 21:12:35.000000000 +0000
@@ -26,7 +26,7 @@
 * authorization.                                             *
 ****************************************************************************/
/*
- * $Id: move_field.c,v 1.16 2024/06/29 17:45:02 tom Exp $
+ * $Id: move_field.c,v 1.19 2024/10/06 21:12:35 tom Exp $
 *
 * Demonstrate move_field().
 */
@@ -146,27 +146,27 @@
}

static FieldAttrs
 *
-my_field_attrs(FIELD *f)
+my_field_attrs(NCURSES_CONST FIELD *f)
{
```

```
   return (FieldAttrs *) field_userptr(f);
}

static int
-buffer_length(FIELD *f)
+buffer_length(NCURSES_CONST FIELD *f)
{
   return my_field_attrs(f)->row_lengths[0];
}

static void
-set_buffer_length(FIELD *f, int length)
+set_buffer_length(NCURSES_CONST FIELD *f, int length)
{
   my_field_attrs(f)->row_lengths[0] = length;
}

static int
-offset_in_field(FORM *form)
+offset_in_field(NCURSES_CONST FORM *form)
{
-    FIELD *field = current_field(form);
+    NCURSES_CONST FIELD *field = current_field(form);
   int currow, curcol;

   form_getyx(form, currow, curcol);
@@ -245,7 +245,7 @@

 default:
     modified = (ch < MIN_FORM_COMMAND
-   && isprint(ch));
+   && isprint(UChar(ch)));
     break;
 }

@@ -275,9 +275,9 @@

/* display a status message to show what's happening */
static void
-show_status(FORM *form, FIELD *field)
+show_status(NCURSES_CONST FORM *form, NCURSES_CONST FIELD
 *field)
{
-    WINDOW *sub = form_sub(form);
+    NCURSES_CONST WINDOW *sub = form_sub(form);
   int currow, curcol;

   getyx(stdscr, currow, curcol);
```

```
Index: test/movewindow.c
Prereq:  1.54
--- ncurses-6.5-20240928+/test/movewindow.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/movewindow.c 2024-10-06 18:44:26.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2018-2022,2023 Thomas E. Dickey                                  *
+ * Copyright 2018-2023,2024 Thomas E. Dickey                                  *
 * Copyright 2006-2013,2017 Free Software Foundation, Inc.                    *
 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                             *
 ******************************************************************************/
 /*
- * $Id: movewindow.c,v 1.54 2023/05/27 20:13:10 tom Exp $
+ * $Id: movewindow.c,v 1.56 2024/10/06 18:44:26 tom Exp $
 *
 * Demonstrate move functions for windows and derived windows from the curses
 * library.
@@ -135,7 +135,7 @@
 */
static PAIR *
selectcell(WINDOW *parent,
-    WINDOW *child,
+    NCURSES_CONST WINDOW *child,
    int uli, int ulj,
    int lri, int lrj,
    bool relative,
@@ -252,7 +252,7 @@
    int max_col = (parent == stdscr) ? COL_MAX : getmaxx(parent);
    int min_line = (parent == stdscr) ? LINE_MIN : 0;
    int max_line = (parent == stdscr) ? LINE_MAX : getmaxy(parent);
-    PAIR *tmp;
+    NCURSES_CONST PAIR *tmp;
    bool result = FALSE;

    head_line("Use arrows to move cursor, anything else to mark corner 1");
@@ -346,7 +346,7 @@
}

static WINDOW *
-parent_of(WINDOW *win)
+parent_of(NCURSES_CONST WINDOW *win)
{
    WINDOW *result = 0;
    int n = window2num(win);
@@ -435,7 +435,7 @@
```

```
 int max_col = top ? COL_MAX
 : getmaxx(parent);
 int min_line = top ? LINE_MIN : 0;
 int max_line = top ? LINE_MAX : getmaxy(parent);
- PAIR *tmp;
+ NCURSES_CONST PAIR *tmp;
 bool more;

 head_line("Select new position for %swindow", top ? "" : "sub");
@@ -474,7 +474,7 @@
}

static void
-show_derwin(WINDOW *win)
+show_derwin(NCURSES_CONST WINDOW *win)
{
    int pary, parx, maxy, maxx;

@@ -500,7 +500,7 @@
 int max_col = top ? COL_MAX : getmaxx(parent);
 int min_line = top ? LINE_MIN : 0;
 int max_line = top ? LINE_MAX : getmaxy(parent);
- PAIR *tmp;
+ NCURSES_CONST PAIR *tmp;
 bool more;

 show_derwin(win);
Index: test/ncurses.c
Prereq:  1.538
--- ncurses-6.5-20240928+/test/ncurses.c 2023-11-11 01:23:59.000000000 +0000
+++ ncurses-6.5-20241006/test/ncurses.c 2024-10-06 20:18:59.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2018-2022,2023 Thomas E. Dickey                                  *
+ * Copyright 2018-2023,2024
 Thomas E. Dickey                                                             *
 * Copyright 1998-2016,2017 Free Software Foundation, Inc.                    *
 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -41,7 +41,7 @@
   Author: Eric S. Raymond <esr@snark.thyrsus.com> 1993
           Thomas E. Dickey (beginning revision 1.27 in 1996).

-$Id: ncurses.c,v 1.538 2023/11/11 01:23:59 tom Exp $
+$Id: ncurses.c,v 1.541 2024/10/06 20:18:59 tom Exp $

******************************************************************************/
```

```
@@ -273,7 +273,7 @@
     ++x;
     break;
 default:
-     if (!isprint(ch) || ch >= KEY_MIN) {
+     if (!isprint(UChar(ch)) || ch >= KEY_MIN) {
  beep();
     } else if ((int) strlen(buffer) < limit) {
  int j;
@@ -928,7 +928,7 @@
  /* at least Solaris SVR4 curses breaks unctrl(128), etc. */
  c2 &= 0x7f;
#endif
-  if (isprint(c))
+  if (isprint(UChar(c)))
      (void)
 wprintw(win, "%c", UChar(c));
  else if (c2 != UChar(c))
      (void) wprintw(win, "M-%s", unctrl(c2));
@@ -1693,7 +1693,7 @@
     chtype extras = (chtype) ac;

     if (UseColors) {
-  NCURSES_PAIRS_T pair = 0;
+  NCURSES_PAIRS_T pair;
  if ((fg != COLOR_BLACK) || (bg != COLOR_BLACK)) {
      pair = 1;
      if (init_pair(pair, fg, bg) == ERR) {
@@ -2345,7 +2345,6 @@
 for (i = (NCURSES_PAIRS_T) (base_row * per_row); i < pairs_max; i++) {
     int row = grid_top + (i / per_row) - base_row;
     int col = (i % per_row + 1) * width;
-     NCURSES_PAIRS_T pair = i;

     if ((i / per_row) > row_limit)
  break;
@@ -2355,6 +2354,7 @@
     if (row >= 0 && move(row, col) != ERR) {
  NCURSES_COLOR_T fg = (NCURSES_COLOR_T) InxToFG(i);
  NCURSES_COLOR_T bg = (NCURSES_COLOR_T) InxToBG(i);
+  NCURSES_PAIRS_T pair = i;

  init_pair(pair, fg, bg);
  attron(COLOR_PAIR(pair));
@@ -2517,7 +2517,7 @@
static int
x_color_test(bool recur GCC_UNUSED)
{
```

```
-    long i;
+    int i;

 int top = 0, width;
    int base_row = 0;
    int grid_top = top + 3;
@@ -2613,17 +2613,17 @@
 /* show color names/numbers across the top */
 for (i = 0; i < per_row; i++) {
     show_color_name(top + 2,
-       ((int) i + 1) * width,
-       (int) i * zoom_size + MinColors,
+       (i + 1) * width,
+       i * zoom_size + MinColors,
       opt_wide,
       opt_zoom);
 }

 /* show a grid of colors, with color names/ numbers on the left */
 for (i = (base_row * per_row); i < pairs_max; i++) {
-     int row = grid_top + ((int) i / per_row) - base_row;
-     int col = ((int) i % per_row + 1) * width;
-     int pair = (int) i;
+     int row = grid_top + (i / per_row) - base_row;
+     int col = (i % per_row + 1) * width;
+     int pair = i;

     if ((i / per_row) > row_limit)
  break;
@@ -2828,7 +2828,7 @@
#define DecodeRGB(n) (NCURSES_COLOR_T) ((n * 1000) / 0xffff)

static void
-init_all_colors(bool xterm_colors, char *palette_file)
+init_all_colors(bool xterm_colors, NCURSES_CONST
 char *palette_file)
{
    NCURSES_PAIRS_T cp;
    all_colors = typeMalloc(RGB_DATA, (unsigned) MaxColors);
@@ -3317,7 +3317,7 @@
{
    int c, fmt = 1;
    char buf[9];
-    char *s;
+    NCURSES_CONST char *s;
    attr_t attr = A_NORMAL;
    unsigned at_code = 0;
#if HAVE_SLK_COLOR
```

```
@@ -3938,8 +3938,7 @@

    *dst = *src;
    do {
- int count;
- TEST_CCHAR(src, count, {
+ TEST_CCHAR(src, {
     attr |= (test_attrs & A_ALTCHARSET);
     setcchar(dst, test_wch, attr, pair, NULL);
 }, {
@@ -4810,7 +4809,8 @@
/* Ask user for a window definition */
{
    WINDOW *rwindow;
-    pair ul, lr, *tmp;
+    pair ul, lr;
+    NCURSES_CONST pair *tmp;

    move(0, 0);
    clrtoeol();
@@ -5014,7 +5014,8 @@
#if HAVE_WRESIZE
 case CTRL('X'): /* resize window */
     if (current) {
-  pair *tmp, ul, lr;
+  NCURSES_CONST pair *tmp;
+  pair ul, lr;
  int mx, my;

  move(0, 0);
@@ -5249,7 +5250,7 @@
}

static void
-fill_panel(PANEL *pan)
+fill_panel(NCURSES_CONST PANEL
 *pan)
{
    WINDOW *win = panel_window(pan);
    const char *userptr = (const char *) panel_userptr(pan);
@@ -5286,7 +5287,7 @@
}

static void
-fill_wide_panel(PANEL *pan)
+fill_wide_panel(NCURSES_CONST PANEL *pan)
{
    WINDOW *win = panel_window(pan);
```

```
   const char *userptr = (const char *) panel_userptr(pan);
@@ -5336,7 +5337,7 @@
}

static int
-demo_panels(void (*InitPanel) (WINDOW *), void (*FillPanel) (PANEL *))
+demo_panels(void (*InitPanel) (WINDOW *), void (*FillPanel) (NCURSES_CONST PANEL *))
{
   int count;
   int itmp;
@@ -6246,7 +6247,8 @@
run_trace_menu(MENU * m)
{
   ITEM **items;
-   ITEM *i, **p;
+   NCURSES_CONST ITEM *i;
+   ITEM **p;

   for (;;) {
 bool changed = FALSE;
@@ -6424,7 +6426,7 @@

   if (field_info(me, &rows, &cols, &frow, &fcol, &nrow, &nbuf) == E_OK
 && nbuf > 0) {
- char *source = field_buffer(me, 1);
+ NCURSES_CONST char *source = field_buffer(me, 1);
 size_t have = (source ? strlen(source) : 0) + 1;
 size_t need
 = 80 + have;
 char *temp = malloc(need);
@@ -6434,7 +6436,7 @@
    _nc_STRNCPY(temp, source ? source : "", have + 1);
    len = (size_t) (char *) field_userptr(me);
    if (c <= KEY_MAX) {
-  if (isgraph(c) && (len + 1) < sizeof(temp)) {
+  if (isgraph(UChar(c)) && (len + 1) < sizeof(temp)) {
     temp[len++] = (char) c;
     temp[len] = 0;
     set_field_buffer(me, 1, temp);
@@ -6484,7 +6486,7 @@
}

static int
-form_virtualize(FORM *f, WINDOW *w)
+form_virtualize(NCURSES_CONST FORM *f, WINDOW *w)
{
   /* *INDENT-OFF* */
   static const struct {
```

```
@@ -6658,7 +6660,7 @@
static
FIELDCHECK_CB(pw_field_check)
{
-    char *s = field_buffer(fld, 0);
+    NCURSES_CONST char *s = field_buffer(fld, 0);
    int n;

    for (n = 0; s[n] != '\0'; ++n) {
@@ -6680,7 +6682,8 @@
form_test(bool recur GCC_UNUSED)
{
    FORM *form;
-    FIELD *f[12], *secure;
+    FIELD *f[12];
+    NCURSES_CONST FIELD *secure;
    FIELDTYPE *fty_middle = new_fieldtype(mi_field_check, mi_char_check);
     FIELDTYPE *fty_passwd = new_fieldtype(pw_field_check, pw_char_check);
    int c;
@@ -7176,7 +7179,7 @@
}

static void
-overlap_test_4(int flavor, WINDOW *a, WINDOW *b)
+overlap_test_4(int flavor, NCURSES_CONST WINDOW *a, WINDOW *b)
{
    switch ((otCOPY) flavor) {
    case otCOPY_overwrite:
@@ -7899,7 +7902,7 @@
    bool monochrome = FALSE;
#if HAVE_COLOR_CONTENT
    bool xterm_colors = FALSE;
-    char *palette_file = 0;
+    NCURSES_CONST char *palette_file = 0;
#endif

    setlocale(LC_ALL, "");
Index: test/padview.c
Prereq:  1.22
--- ncurses-6.5-20240928+/test/padview.c 2022-12-04 00:40:11.000000000 +0000
+++ ncurses-6.5-20241006/test/padview.c 2024-10-06 21:08:25.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2019-2021,2022 Thomas E. Dickey                                  *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                  *
 * Copyright 2017 Free
 Software Foundation, Inc.                                                    *
 *                                                                            *
```

```
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -29,7 +29,7 @@
/*
 * clone of view.c, using pads
 *
- * $Id: padview.c,v 1.22 2022/12/04 00:40:11 tom Exp $
+ * $Id: padview.c,v 1.24 2024/10/06 21:08:25 tom Exp $
 */

#include <test.priv.h>
@@ -182,7 +182,7 @@

#if USE_WIDEC_SUPPORT
    if (!memcmp("\357\273\277", my_blob, 3)) {
- char *s = my_blob + 3;
+ const char *s = my_blob + 3;
 char *d = my_blob;
 Trace(("trim BOM"));
 do {
@@ -213,7 +213,7 @@
    for (k = 0; my_vec[k]; ++k) {
 char *s;
#if USE_WIDEC_SUPPORT
- char *last = my_vec[k] + (int) strlen(my_vec[k]);
+ const char *last = my_vec[k] + (int) strlen(my_vec[k]);
 wchar_t wch[2];
 size_t rc;
#ifndef state_unused
@@ -279,7 +279,7 @@
int
main(int argc, char *argv[])
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =

    {
 "Commands:",
 "  q,^Q,ESC       - quit this program",
@@ -532,7 +532,7 @@
     beep();
     break;
 }
- if (c >= KEY_MIN || (c > 0 && !isdigit(c))) {
+ if (c >= KEY_MIN || (c > 0 && !isdigit(UChar(c)))) {
     got_number = FALSE;
     value = 0;
 }
Index: test/parse_rgb.h
```

```
Prereq:  1.5
--- ncurses-6.5-20240928+/test/parse_rgb.h 2020-02-02 23:34:34.000000000 +0000
+++ ncurses-6.5-20241006/test/parse_rgb.h 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2018,2020 Thomas E. Dickey                                     *
+ * Copyright 2018-2020,2024 Thomas E. Dickey                                *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
 * copy of this software and associated documentation files (the            *
@@ -26,7 +26,7 @@
 * authorization.                                                           *
 ******************************************************************************/
/*
- * $Id: parse_rgb.h,v 1.5 2020/02/02 23:34:34 tom Exp $
+ * $Id: parse_rgb.h,v 1.6 2024/10/05 19:26:24 tom Exp $
 *
 * Sample implementation of ncurses RGB extension from user_caps(5).
 */
@@ -49,7 +49,7 @@
 int bits;
 int pwr2;
 int r = 0, g = 0, b = 0;
- char *data;
+ const char *data;
 char ch;

 for (max_bits = 0, pwr2 = 1;
Index: test/picsmap.c
Prereq:  1.149
--- ncurses-6.5-20240928+/test/picsmap.c 2023-04-23 23:20:37.000000000 +0000
+++ ncurses-6.5-20241006/test/picsmap.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2018-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2018-2023,2024 Thomas E. Dickey                                *
 * Copyright 2017,2018 Free Software Foundation, Inc.                       *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ******************************************************************************/
/*
- * $Id: picsmap.c,v 1.149 2023/04/23 23:20:37 tom Exp $
+ * $Id: picsmap.c,v 1.150 2024/10/05 19:26:24 tom Exp $
 *
```

```
 * Author: Thomas E. Dickey
 *
@@ -574,7 +574,7 @@
     _nc_STRCAT(full_name, filename, need);
     if (tries & 4) {
  char *t = s;
-  char *tc;
+  const char *tc;
  int num;
  char chr;
  int found = 0;
@@ -1374,8 +1374,8 @@
  int r, g, b, nocolor;
  float rf, gf, bf;
  unsigned check;
-  char *t;
-  char *s = t = strchr(buffer, '#');
+  char *s = strchr(buffer, '#');
+  const char *t = s;
  bool matched = FALSE;

  if (s != 0) {
@@ -1492,7 +1492,7 @@
#define fg_color(pics,n) (pics->fgcol[n].fgcol)

static void
-dump_picture(PICS_HEAD
 * pics)
+dump_picture(const PICS_HEAD * pics)
{
    int y, x;

@@ -1767,7 +1767,7 @@
#if USE_EXTENDED_COLORS
 case 'x':
     {
-  char *s = optarg;
+  const char *s = optarg;
  while (*s) {
      switch (*s++) {
      case 'p':
Index: test/popup_msg.c
Prereq:  1.12
--- ncurses-6.5-20240928+/test/popup_msg.c 2024-06-29 18:34:58.000000000 +0000
+++ ncurses-6.5-20241006/test/popup_msg.c 2024-10-06 21:07:01.000000000 +0000
@@ -27,7 +27,7 @@
 * authorization.                                           *
 ****************************************************************************/
```

```
/*
- * $Id: popup_msg.c,v 1.12 2024/06/29 18:34:58 tom Exp $
+ * $Id: popup_msg.c,v 1.13 2024/10/06 21:07:01 tom Exp $
 *
 * Show a multi-line message in a window which may extend beyond the screen.
 *
@@ -62,7 +62,7 @@
 * Display a temporary window, e.g., to display a help-message.
 */
void
-popup_msg(WINDOW *parent, const char *const *msg)
+popup_msg(WINDOW *parent, NCURSES_CONST
 char *const *msg)
{
   int x0 = 4;
   int y0 = 2;
@@ -171,12 +171,12 @@
void
popup_msg2(WINDOW *parent, char **msg)
{
-   popup_msg(parent, (const char *const *) msg);
+   popup_msg(parent, (NCURSES_CONST char *const *) msg);
}

#else
void
-popup_msg(WINDOW *parent, const char *const *msg)
+popup_msg(WINDOW *parent, NCURSES_CONST char *const *msg)
{
   (void) parent;
   (void) msg;
Index: test/popup_msg.h
Prereq:  1.5
--- ncurses-6.5-20240928+/test/popup_msg.h 2020-02-02 23:34:34.000000000 +0000
+++ ncurses-6.5-20241006/test/popup_msg.h 2024-10-06 21:17:54.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2018,2020 Thomas E. Dickey                                       *
+ * Copyright 2018-2020,2024 Thomas E. Dickey                                  *
 * Copyright 2017 Free Software Foundation, Inc.                              *
 *
                                                                              *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                             *
 ******************************************************************************/
/*
- * $Id: popup_msg.h,v 1.5 2020/02/02 23:34:34 tom Exp $
```

```
+ * $Id: popup_msg.h,v 1.6 2024/10/06 21:17:54 tom Exp $
 *
 * Utility functions for a popup-message or help-screen.
 */
@@ -37,7 +37,7 @@

#include <test.priv.h>

-extern void popup_msg(WINDOW *parent, const char *const *msg);
+extern void popup_msg(WINDOW *parent, NCURSES_CONST char *const *msg);
extern void popup_msg2(WINDOW *parent, char **msg);

#endif /* POPUP_MSG_H_incl */
Index: test/railroad.c
Prereq:  1.26
--- ncurses-6.5-20240928+/test/railroad.c 2022-12-11 00:12:13.000000000 +0000
+++ ncurses-6.5-20241006/test/railroad.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
-
 * Copyright 2019-2020,2022 Thomas E. Dickey                                  *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                  *
 * Copyright 2000-2013,2017 Free Software Foundation, Inc.                    *
 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey - 2000
 *
- * $Id: railroad.c,v 1.26 2022/12/11 00:12:13 tom Exp $
+ * $Id: railroad.c,v 1.27 2024/10/05 19:26:24 tom Exp $
 *
 * A simple demo of the termcap interface.
 */
@@ -113,7 +113,7 @@
static void
ShowSign(char *string)
{
-    char *base = string;
+    const char *base = string;
    int first, last;

    if (moveit != 0) {
Index: test/rain.c
Prereq:  1.58
--- ncurses-6.5-20240928+/test/rain.c 2024-08-31 15:56:10.000000000 +0000
+++ ncurses-6.5-20241006/test/rain.c 2024-10-06 21:09:00.000000000 +0000
@@ -27,7 +27,7
```

```
 @@
 * authorization.                                          *
 ****************************************************************************/
/*
- * $Id: rain.c,v 1.58 2024/08/31 15:56:10 tom Exp $
+ * $Id: rain.c,v 1.62 2024/10/06 21:09:00 tom Exp $
 */
#include <test.priv.h>
#include <popup_msg.h>
@@ -45,7 +45,7 @@

struct DATA;

-typedef void (*DrawPart) (struct DATA *);
+typedef void (*DrawPart) (const struct DATA *);

typedef struct DATA {
   int y, x;
@@ -118,25 +118,25 @@
}

static void
-part1(DATA * drop)
+part1(const DATA * drop)
{
   MvAddCh(drop->y, drop->x, '.');
}

static void
-part2(DATA * drop)
+part2(const DATA * drop)
{
   MvAddCh(drop->y, drop->x, 'o');
}

static void
-part3(DATA * drop)
+part3(const DATA * drop)
{
   MvAddCh(drop->y, drop->x, 'O');
}

static void
-part4(DATA * drop)
+part4(const DATA * drop)
{
   MvAddCh(drop->y - 1, drop->x, '-');
   MvAddStr(drop->y, drop->x - 1, "|.|");
```

```
@@ -144,7 +144,7 @@
 }

static void
-part5(DATA * drop)
+part5(const DATA * drop)
{
   MvAddCh(drop->y - 2, drop->x, '-');
   MvAddStr(drop->y - 1, drop->x - 1, "/ \\");
@@ -154,7 +154,7 @@
}

static void
-part6(DATA * drop)
+part6(const DATA * drop)
{
   MvAddCh(drop->y - 2, drop->x, ' ');
   MvAddStr(drop->y - 1, drop->x - 1, "   ");
@@ -186,7 +186,7 @@
}

static void
-draw_part(void (*func) (DATA *), int state, DATA * data)
+draw_part(void (*func) (const DATA *), int state, DATA * data)
{
   data->func = func;
   data->state = state;
@@ -328,7 +328,7 @@
int
main(int argc, char *argv[])
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
    {
 "Commands:",
 " q/Q        exit the program",
Index: test/redraw.c
Prereq:  1.17
--- ncurses-6.5-20240928+/test/redraw.c 2022-12-10 22:28:50.000000000 +0000
+++ ncurses-6.5-20241006/test/redraw.c 2024-10-06 21:17:54.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
-
 * Copyright 2020-2021,2022 Thomas E. Dickey                                  *
+ * Copyright 2020-2022,2024 Thomas E. Dickey                                  *
 * Copyright 2006-2012,2017 Free Software Foundation, Inc.                    *
 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
```

```
@@ -27,7 +27,7 @@
 * authorization.                                       *
 ****************************************************************************/
/*
- * $Id: redraw.c,v 1.17 2022/12/10 22:28:50 tom Exp $
+ * $Id: redraw.c,v 1.18 2024/10/06 21:17:54 tom Exp $
 *
 * Demonstrate the redrawwin() and wredrawln() functions.
 * Thomas Dickey - 2006/11/4
@@ -61,7 +61,7 @@
static void
test_redraw(WINDOW *win)
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
    {
 "Commands:",
 "  ^Q/ESC/q   - quit",
Index: test/savescreen.c
Prereq:
  1.62
--- ncurses-6.5-20240928+/test/savescreen.c 2022-12-10 23:23:27.000000000 +0000
+++ ncurses-6.5-20241006/test/savescreen.c 2024-10-06 21:10:09.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2018-2021,2022 Thomas E. Dickey                                *
+ * Copyright 2018-2022,2024 Thomas E. Dickey                                *
 * Copyright 2006-2017,2018 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                       *
 ****************************************************************************/
/*
- * $Id: savescreen.c,v 1.62 2022/12/10 23:23:27 tom Exp $
+ * $Id: savescreen.c,v 1.65 2024/10/06 21:10:09 tom Exp $
 *
 * Demonstrate save/restore functions
 from the curses library.
 * Thomas Dickey - 2007/7/14
@@ -96,7 +96,7 @@
}

static int
-load_screen(char *filename)
+load_screen(NCURSES_CONST char *filename)
{
    int result;
```

```
@@ -170,7 +170,7 @@
#if USE_WIDEC_SUPPORT
    cchar_t mycc;
#endif
-    char *filename = files[which];
+    NCURSES_CONST char *filename = files[which];
    bool dumped = FALSE;

    if (filename != 0) {
@@ -216,7 +216,7 @@
static void
editor_help(void)
{
-    static const char *msgs[] =
+    static NCURSES_CONST char *msgs[] =
    {
 "You are now in the screen-editor, which allows you to make some",
 "lines on the screen, as well as save copies of the screen to a",
@@ -238,7 +238,7 @@
static void
replay_help(void)
{
-    static const char *msgs[] =
+    static NCURSES_CONST char *msgs[] =
    {
 "You are now in the screen-loader, which allows you to view",
 "the dumped/restored screens.",
@@ -286,7 +286,7 @@
    bool replaying = FALSE;
    bool done = FALSE;
    char **files;
-
    char *fill_by = 0;
+    NCURSES_CONST char *fill_by = 0;
#if USE_WIDEC_SUPPORT
    cchar_t mycc;
    static const wchar_t mywc[2] =
Index: test/tclock.c
Prereq:  1.48
--- ncurses-6.5-20240928+/test/tclock.c 2023-02-25 16:42:22.000000000 +0000
+++ ncurses-6.5-20241006/test/tclock.c 2024-10-05 18:47:56.000000000 +0000
@@ -1,4 +1,4 @@
-/* $Id: tclock.c,v 1.48 2023/02/25 16:42:22 tom Exp $ */
+/* $Id: tclock.c,v 1.49 2024/10/05 18:47:56 tom Exp $ */

#define NEED_TIME_H
#include <test.priv.h>
```

```
@@ -145,7 +145,7 @@
   int lastbeep = -1;
   bool odd = FALSE;
   time_t tim;
-   struct tm *t;
+   const struct tm *t;
   char szChar[20];
   char *text;
   short my_bg = COLOR_BLACK;
Index: test/test.priv.h
Prereq:  1.219
--- ncurses-6.5-20240928+/test/test.priv.h 2024-08-31 10:46:01.000000000 +0000
+++ ncurses-6.5-20241006/test/test.priv.h 2024-10-05 19:01:00.000000000 +0000
@@ -30,7 +30,7 @@
/******************************************************************************
  *  Author: Thomas E. Dickey                    1996-on                    *
 ******************************************************************************/
-/* $Id: test.priv.h,v 1.219 2024/08/31 10:46:01 Rafael.Kitover Exp $ */
+/* $Id: test.priv.h,v 1.220 2024/10/05 19:01:00 tom Exp $ */

#ifndef __TEST_PRIV_H
#define __TEST_PRIV_H 1
@@ -765,8 +765,8 @@

#define VERSION_COMMON() \
static char *version_common(char **argv) { \
- char *base = argv[0]; \
- char *part = strrchr(base, '/'); \
+ const char *base = argv[0]; \
+ const char *part = strrchr(base, '/'); \
 size_t need = strlen(base) + 80; \
 char *result = malloc(need); \
 if (result != NULL) { \
@@ -916,8 +916,8 @@
 * Workaround in case getcchar() returns a positive value when the source
 * string produces only a L'\0'.
 */
-#define TEST_CCHAR(s, count, then_stmt, else_stmt) \
- if ((count = getcchar(s, NULL, NULL, NULL, NULL)) > 0) { \
+#define TEST_CCHAR(s, then_stmt, else_stmt) \
+ if (getcchar(s, NULL, NULL,
 NULL, NULL) > 0) { \
     wchar_t test_wch[CCHARW_MAX + 2]; \
     attr_t test_attrs; \
     NCURSES_PAIRS_T test_pair; \
Index: test/test_add_wchstr.c
Prereq:  1.34
--- ncurses-6.5-20240928+/test/test_add_wchstr.c 2022-12-10 22:28:50.000000000 +0000
```

```
+++ ncurses-6.5-20241006/test/test_add_wchstr.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2020-2021,2022 Thomas E. Dickey                                  *
+ * Copyright 2020-2022,2024 Thomas E. Dickey                                  *
 * Copyright 2009-2016,2017 Free Software Foundation, Inc.                    *
 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a    *
@@ -27,7 +27,7 @@
 * authorization.                                                             *
 ******************************************************************************/
 /*
- * $Id: test_add_wchstr.c,v 1.34 2022/12/10 22:28:50 tom Exp $
+ * $Id: test_add_wchstr.c,v 1.35 2024/10/05 19:26:24 tom Exp $
 *
 * Demonstrate the waddwchstr() and wadd_wch functions.
 * Thomas Dickey - 2009/9/12
@@ -158,7 +158,7 @@
}

static void
-legend(WINDOW *win, int level, Options state, wchar_t *buffer, int length)
+legend(WINDOW *win, int level, Options state, const wchar_t *buffer, int length)
{
    const char *showstate;

Index: test/test_addchstr.c
Prereq:  1.29
--- ncurses-6.5-20240928+/test/test_addchstr.c 2022-12-10 22:28:50.000000000 +0000
+++ ncurses-6.5-20241006/test/test_addchstr.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2020,2022 Thomas E. Dickey                                       *
+ * Copyright 2020-2022,2024 Thomas E. Dickey                                  *
 * Copyright 2009-2016,2017 Free Software Foundation, Inc.                    *
  *                                                                           *
 * Permission is hereby granted, free of charge, to any person obtaining a    *
@@ -27,7 +27,7 @@
 * authorization.                                                             *
 ******************************************************************************/
/*
- * $Id: test_addchstr.c,v 1.29 2022/12/10 22:28:50 tom Exp $
+ * $Id: test_addchstr.c,v 1.30 2024/10/05 19:26:24 tom Exp $
 *
 * Demonstrate the waddchstr() and waddch functions.
 * Thomas Dickey - 2009/9/12
@@ -169,7 +169,7 @@
}
```

```
static int
-ColOf(char *buffer, int length, int margin)
+ColOf(const char *buffer, int length, int margin)
{
   int n;
   int result;
Index: test/test_addstr.c
Prereq:  1.20
--- ncurses-6.5-20240928+/test/test_addstr.c 2022-12-10 22:28:50.000000000 +0000
+++ ncurses-6.5-20241006/test/test_addstr.c 2024-10-05 19:27:33.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
-
 * Copyright 2020,2022 Thomas E. Dickey                                       *
+ * Copyright 2020-2022,2024 Thomas E. Dickey                                  *
 * Copyright 2009-2016,2017 Free Software Foundation, Inc.                    *
 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                             *
 ******************************************************************************/
/*
- * $Id: test_addstr.c,v 1.20 2022/12/10 22:28:50 tom Exp $
+ * $Id: test_addstr.c,v 1.21 2024/10/05 19:27:33 tom Exp $
 *
 * Demonstrate the waddstr() and waddch functions.
 * Thomas Dickey - 2009/9/12
@@ -91,7 +91,7 @@
}

static int
-ColOf(char *buffer, int length, int margin)
+ColOf(const char *buffer, int length, int margin)
{
   int n;
   int result;
Index: test/test_addwstr.c
Prereq:  1.22
---
 ncurses-6.5-20240928+/test/test_addwstr.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/test_addwstr.c 2024-10-05 19:27:33.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2020-2022,2023 Thomas E. Dickey                                 *
+ * Copyright 2020-2023,2024 Thomas E. Dickey                                 *
 * Copyright 2009-2016,2017 Free Software Foundation, Inc.                    *
 *                                                                            *
```

```
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                            *
 ****************************************************************************/
/*
- * $Id: test_addwstr.c,v 1.22 2023/05/27 20:13:10 tom Exp $
+ * $Id: test_addwstr.c,v 1.23 2024/10/05 19:27:33 tom Exp $
 *
 * Demonstrate the waddwstr() and wadd_wch
 functions.
 * Thomas Dickey - 2009/9/12
@@ -82,7 +82,7 @@
static int n_opt = -1;

static void
-legend(WINDOW *win, int level, Options state, wchar_t *buffer, int length)
+legend(WINDOW *win, int level, Options state, const wchar_t *buffer, int length)
{
    const char *showstate;

Index: test/test_endwin.c
Prereq:  1.2
--- ncurses-6.5-20240928+/test/test_endwin.c 2023-11-10 15:17:19.000000000 +0000
+++ ncurses-6.5-20241006/test/test_endwin.c 2024-10-05 19:27:33.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2023 Thomas E. Dickey                                          *
+ * Copyright 2023,2024 Thomas E. Dickey                                     *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
 * copy of this software and associated documentation files (the            *
@@ -26,7 +26,7 @@
  * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: test_endwin.c,v 1.2 2023/11/10 15:17:19 tom Exp $
+ * $Id: test_endwin.c,v 1.3 2024/10/05 19:27:33 tom Exp $
 */
#include <test.priv.h>

@@ -67,7 +67,7 @@
    int rc_e1 = OK;
    int rc_e2 = OK;
    int rc_e3 = OK;
-    SCREEN *sp = NULL;
+    const SCREEN *sp = NULL;
    bool opt_e = FALSE;
    bool opt_i = FALSE;
```

```
   bool opt_n = FALSE;
Index: test/test_get_wstr.c
Prereq:  1.14
--- ncurses-6.5-20240928+/test/test_get_wstr.c 2022-12-10 23:59:13.000000000 +0000
+++ ncurses-6.5-20241006/test/test_get_wstr.c 2024-10-06 23:15:10.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2020,2022 Thomas E. Dickey                                       *
+ * Copyright 2020-2022,2024 Thomas E. Dickey                                  *
 * Copyright 2007-2011,2017
 Free Software Foundation, Inc.                                               *
 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                             *
 ******************************************************************************/
/*
- * $Id: test_get_wstr.c,v 1.14 2022/12/10 23:59:13 tom Exp $
+ * $Id: test_get_wstr.c,v 1.16 2024/10/06 23:15:10 tom Exp $
 *
 * Author: Thomas E Dickey
 *
@@ -69,7 +69,7 @@
}

static int
-Remainder(WINDOW *txtwin)
+Remainder(const WINDOW *txtwin)
{
   int result = getmaxx(txtwin) - getcurx(txtwin);
   return (result > 0) ? result : 0;
@@ -138,7 +138,7 @@
static int
recursive_test(int level, char **argv, WINDOW *strwin)
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
    {
 "Commands:",
 "  q,^Q,ESC       - quit this program",
Index: test/test_getstr.c
Prereq:
  1.16
--- ncurses-6.5-20240928+/test/test_getstr.c 2022-12-10 23:58:37.000000000 +0000
+++ ncurses-6.5-20241006/test/test_getstr.c 2024-10-06 22:36:46.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2020,2022 Thomas E. Dickey                                       *
```

```
+ * Copyright 2020-2022,2024 Thomas E. Dickey                          *
 * Copyright 2007-2012,2017 Free Software Foundation, Inc.              *
 *                                                                      *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                       *
 ****************************************************************************/
/*
- * $Id: test_getstr.c,v 1.16 2022/12/10 23:58:37 tom Exp $
+ * $Id: test_getstr.c,v 1.19 2024/10/06 22:36:46 tom Exp $
 *
 * Author: Thomas E Dickey
  *
@@ -76,7 +76,7 @@
}

static int
-Remainder(WINDOW *txtwin)
+Remainder(NCURSES_CONST WINDOW *txtwin)
{
   int result = getmaxx(txtwin) - getcurx(txtwin);
   return (result > 0) ? result : 0;
@@ -145,7 +145,7 @@
static int
recursive_test(int level, char **argv, WINDOW *strwin)
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
    {
 "Commands:",
 "  q,^Q,ESC       - quit this program",
Index: test/test_instr.c
Prereq:  1.13
--- ncurses-6.5-20240928+/test/test_instr.c 2024-06-29 18:42:53.000000000 +0000
+++ ncurses-6.5-20241006/test/test_instr.c 2024-10-06 21:11:54.000000000 +0000
@@ -27,7 +27,7 @@
 * authorization.                                                       *
 ****************************************************************************/
/*
- * $Id: test_instr.c,v 1.13 2024/06/29 18:42:53 tom Exp $
+ * $Id: test_instr.c,v 1.15 2024/10/06 21:11:54 tom Exp $
 *
 * Author: Thomas E Dickey
 *
@@ -56,13 +56,13 @@
}

static
```

```
 void
-show_1st(WINDOW *win, int line, char *buffer)
+show_1st(WINDOW *win, int line, NCURSES_CONST char *buffer)
{
    MvWAddStr(win, line, 5, buffer);
}

static void
-showmore(WINDOW *win, int line, char *buffer)
+showmore(WINDOW *win, int line, NCURSES_CONST char *buffer)
{
    wmove(win, line, 0);
    wclrtoeol(win);
@@ -72,7 +72,7 @@
static void
show_help(WINDOW *win)
{
-    static const char *msgs[] =
+    static NCURSES_CONST char *msgs[] =
    {
 "Show file contents and a viewport from the variants of winstr."
 ,"Use h/j/k/l or arrow keys to move the viewport."
Index: test/test_inwstr.c
Prereq:  1.9
--- ncurses-6.5-20240928+/test/test_inwstr.c 2024-06-29 18:40:02.000000000 +0000
+++ ncurses-6.5-20241006/test/test_inwstr.c 2024-10-06 23:15:38.000000000 +0000
@@ -27,7 +27,7 @@
 * authorization.                                               *
 ****************************************************************************/
/*
- * $Id: test_inwstr.c,v
 1.9 2024/06/29 18:40:02 tom Exp $
+ * $Id: test_inwstr.c,v 1.11 2024/10/06 23:15:38 tom Exp $
 *
 * Author: Thomas E Dickey
 *
@@ -59,13 +59,13 @@
}

static void
-show_1st(WINDOW *win, int line, wchar_t *buffer)
+show_1st(WINDOW *win, int line, const wchar_t *buffer)
{
    (void) mvwaddwstr(win, line, 5, buffer);
}

static void
-showmore(WINDOW *win, int line, wchar_t *buffer)
```

```
+showmore(WINDOW *win, int line, const wchar_t *buffer)
{
    wmove(win, line, 0);
    wclrtoeol(win);
@@ -75,7 +75,7 @@
static void
show_help(WINDOW *win)
{
-    static const char *msgs[] =
+    static NCURSES_CONST char *msgs[] =
    {
 "Show file contents and a viewport from the variants of winwstr."
 ,"Use h/j/k/l or arrow keys to move the viewport."
Index: test/test_mouse.c
Prereq:  1.32
--- ncurses-6.5-20240928+/test/test_mouse.c 2024-08-31 10:46:01.000000000 +0000
+++ ncurses-6.5-20241006/test/test_mouse.c 2024-10-05 18:47:56.000000000 +0000
@@ -22,7 +22,7 @@
 * THE USE OR OTHER DEALINGS
 IN THE SOFTWARE.                          *
 ****************************************************************************/
/*
- * $Id: test_mouse.c,v 1.32 2024/08/31 10:46:01 Rafael.Kitover Exp $
+ * $Id: test_mouse.c,v 1.33 2024/10/05 18:47:56 tom Exp $
 *
 * Author: Leonid S Usov
 *
@@ -38,7 +38,7 @@
static void
raw_loop(void)
{
-    char *xtermcap;
+    const char *xtermcap;

    printf("Entering raw mode. Ctrl-c to quit.\n");

Index: test/test_opaque.c
Prereq:  1.15
--- ncurses-6.5-20240928+/test/test_opaque.c 2022-12-11 00:03:10.000000000 +0000
+++ ncurses-6.5-20241006/test/test_opaque.c 2024-10-05 19:27:33.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2020-2021,2022 Thomas E. Dickey                                *
+ * Copyright 2020-2022,2024 Thomas E. Dickey                                *
 * Copyright 2007-2008,2009 Free Software Foundation, Inc.                  *
 *                                                                          *
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```

```
@@ -27,7 +27,7 @@
 * authorization.                                             *
 ******************************************************************************/
/*
- * $Id: test_opaque.c,v 1.15 2022/12/11 00:03:10 tom Exp $
+ * $Id: test_opaque.c,v 1.16 2024/10/05 19:27:33 tom Exp $
 *
 * Author: Thomas E Dickey
 *
@@ -157,13 +157,13 @@
}

static int
-status_y(WINDOW *stswin, int cell)
+status_y(const WINDOW *stswin, int cell)
{
   return (cell % getmaxy(stswin));
}

static int
-status_x(WINDOW *stswin, int cell)
+status_x(const WINDOW *stswin, int cell)
{
   return (15 * (cell / getmaxy(stswin)));
}
Index: test/test_sgr.c
Prereq:  1.22
--- ncurses-6.5-20240928+/test/test_sgr.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/test_sgr.c 2024-10-06 21:05:50.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
-
 * Copyright 2019-2022,2023 Thomas E. Dickey                                  *
+ * Copyright 2019-2023,2024 Thomas E. Dickey                                  *
 * Copyright 2015-2016,2017 Free Software Foundation, Inc.                    *
 *                                                                            *
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@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey
 *
- * $Id: test_sgr.c,v 1.22 2023/05/27 20:13:10 tom Exp $
+ * $Id: test_sgr.c,v 1.25 2024/10/06 21:05:50 tom Exp $
 *
 * A simple demo of the sgr/sgr0 terminal capabilities.
 */
@@ -142,10 +142,10 @@
#define MASK_REV  (1 << 2)
```

```
static void
-dumpit(unsigned bits, unsigned ignore, const char *sgr, const char *sgr0)
+dumpit(unsigned bits, unsigned ignore, NCURSES_CONST char *sgr, NCURSES_CONST char *sgr0)
{
-    static const char sample[] = "abcdefghijklm";
-    static
 char params[] = "SURBDBIPA";
+    static NCURSES_CONST char sample[] = "abcdefghijklm";
+    static NCURSES_CONST char params[] = "SURBDBIPA";
    unsigned n;

    printf("%4u ", bits);
@@ -177,12 +177,11 @@
static void
brute_force(const char *name)
{
-    unsigned count;
-    char *my_sgr;
-    char *my_sgr0;
-    char *my_bold;
-    char *my_revs;
-    char *my_smso;
+    NCURSES_CONST char *my_sgr;
+    NCURSES_CONST char *my_sgr0;
+    NCURSES_CONST char *my_bold;
+    NCURSES_CONST char *my_revs;
+    NCURSES_CONST char *my_smso;
    char *my_name = strdup(name);

    if (db_list) {
@@ -219,6 +218,7 @@
 unsigned ignore = 0;
 unsigned reason = 0;
 unsigned repeat = 0;
+ unsigned count;
 for (count = 0; count < MAXSGR; ++count) {
     values[count] = tparm(my_sgr,
      BITS2P(1),
@@ -334,7 +334,7 @@
main(int argc, char *argv[])
{
    int ch;
-    char *name;
+    const char *name;

    while ((ch = getopt(argc, argv, OPTS_COMMON "d:e:nq")) != -1) {
 switch (ch)
```

```
 {
@@ -369,7 +369,7 @@
    } else if ((name = getenv("TERM")) != 0) {
 brute_force(name);
    } else {
- static char dumb[] = "dumb";
+ static const char dumb[] = "dumb";
 brute_force(dumb);
    }

Index: test/test_tparm.c
Prereq:  1.39
--- ncurses-6.5-20240928+/test/test_tparm.c 2023-11-11 01:00:03.000000000 +0000
+++ ncurses-6.5-20241006/test/test_tparm.c 2024-10-06 20:50:27.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2020-2022,2023 Thomas E. Dickey                                  *
+ * Copyright 2020-2023,2024 Thomas E. Dickey                                  *
 *                                                                            *
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 * copy of this software and associated documentation files (the            *
@@ -29,7 +29,7 @@
/*
 * Author: Thomas E. Dickey
 *
- * $Id: test_tparm.c,v 1.39 2023/11/11 01:00:03
 tom Exp $
+ * $Id: test_tparm.c,v 1.42 2024/10/06 20:50:27 tom Exp $
 *
 * Exercise tparm/tiparm, either for all possible capabilities with fixed
 * parameters, or one capability with specific combinations of parameters.
@@ -107,7 +107,7 @@
}

static int
-isNumeric(char *source)
+isNumeric(NCURSES_CONST char *source)
{
    char *next = 0;
    long value = strtol(source, &next, 0);
@@ -245,7 +245,7 @@
#define NS_9(fmt) NS_8(fmt), NumStr(8)

static void
-test_tparm(const char *name, const char *format, long *number, char **string)
+test_tparm(const char *name, NCURSES_CONST char *format, long *number, char **string)
{
    char *use_strings[MAX_PARM];
```

```
    char *result = NULL;
@@ -527,7 +527,7 @@
     }
 } else {
     char *s = t_opt;
-     char *t;
+     NCURSES_CONST char *t;
     while ((t = strtok(s, ",")) != 0) {
  s = 0;
  if (len_terms + 2 >= max_terms) {
@@ -603,7 +603,7 @@
#if NCURSES_XNAMES
     len_caps = std_caps;
     if (cur_term) {
-  TERMTYPE *term =
 (TERMTYPE *) cur_term;
+  NCURSES_CONST TERMTYPE *term = (TERMTYPE *) cur_term;
  for (n = STRCOUNT; n < NUM_STRINGS(term); ++n) {
      GrowArray(all_caps, max_caps, len_caps);
      GrowArray(cap_name, max_name, len_caps);
Index: test/test_vidputs.c
Prereq:  1.15
--- ncurses-6.5-20240928+/test/test_vidputs.c 2022-12-10 23:23:27.000000000 +0000
+++ ncurses-6.5-20241006/test/test_vidputs.c 2024-10-06 21:17:54.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2020-2021,2022 Thomas E. Dickey                                  *
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 *                                                                            *
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@@ -27,7 +27,7 @@
 * authorization.                                                             *
 ******************************************************************************/
/*
- * $Id: test_vidputs.c,v 1.15 2022/12/10 23:23:27 tom Exp $
+ * $Id: test_vidputs.c,v 1.16 2024/10/06 21:17:54 tom Exp $
 *
 * Demonstrate the vidputs and vidattr functions.
 * Thomas Dickey - 2013/01/12
@@ -51,7 +51,7 @@
}

static bool
-outs(const char *s)
+outs(NCURSES_CONST char *s)
{
```

```
   if (VALID_STRING(s)) {
 tputs(s, 1, outc);
Index: test/testcurs.c
Prereq:  1.58
--- ncurses-6.5-20240928+/test/testcurs.c 2023-05-28 14:23:34.000000000 +0000
+++ ncurses-6.5-20241006/test/testcurs.c 2024-10-05 19:17:19.000000000 +0000
@@ -6,7 +6,7 @@
 *  wrs(5/28/93) -- modified to be consistent (perform identically) with either
 *                  PDCurses or under Unix System V, R4
 *
- * $Id: testcurs.c,v 1.58 2023/05/28 14:23:34 tom Exp $
+ * $Id: testcurs.c,v 1.59 2024/10/05 19:17:19 tom Exp $
 */

#include <test.priv.h>
@@ -245,7 +245,7 @@
 wclrtobot(win);
 if (c >= KEY_MIN)
      wprintw(win, "Key Pressed: %s", keyname(c));
- else if (isprint(c))
+ else if (isprint(UChar(c)))
     wprintw(win, "Key Pressed: %c", c);
 else
     wprintw(win, "Key Pressed: %s", unctrl(UChar(c)));
@@ -748,8 +748,8 @@
 keypad(stdscr, TRUE);
 raw();
 key = getch();
- if (key < KEY_MIN && key > 0 && isalpha(key)) {
-     if (islower(key))
+ if (key < KEY_MIN && key > 0 && isalpha(UChar(key))) {
+     if (islower(UChar(key)))
  key = toupper(key);
     for (n = 0; n < MAX_OPTIONS; ++n) {
  if (key == command[n].text[0]) {
Index: test/testscanw.c
Prereq:  1.15
--- ncurses-6.5-20240928+/test/testscanw.c 2022-12-11 00:10:29.000000000 +0000
+++ ncurses-6.5-20241006/test/testscanw.c 2024-10-05 19:27:33.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2019-2020,2022 Thomas E. Dickey                                *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                *
 *
 Copyright 1998-2002,2006 Free Software Foundation, Inc.                   *
 *                                                                          *
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@@ -30,7 +30,7 @@
```

```
 * Date:  1997/03/17
 * From:  bayern@morpheus.cis.yale.edu
 *
- * $Id: testscanw.c,v 1.15 2022/12/11 00:10:29 tom Exp $
+ * $Id: testscanw.c,v 1.16 2024/10/05 19:27:33 tom Exp $
 */
#include <test.priv.h>

@@ -85,7 +85,7 @@
   curses_trace(TRACE_UPDATE | TRACE_CALLS);
#endif
   while (optind < argc) {
- char *token = argv[optind++];
+ const char *token = argv[optind++];
 if (isdigit(UChar(*token)))
    move(atoi(token), 0);
 else if (!strcmp(token, "k+"))
Index: test/view.c
Prereq:  1.145
--- ncurses-6.5-20240928+/test/view.c 2022-12-04 00:40:11.000000000 +0000
+++ ncurses-6.5-20241006/test/view.c 2024-10-06 21:08:05.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
-
 * Copyright 2019-2021,2022 Thomas E. Dickey                                  *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                  *
 * Copyright 1998-2016,2017 Free Software Foundation, Inc.                    *
 *                                                                            *
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@@ -52,7 +52,7 @@
 * scroll operation worked, and the refresh() code only had to do a
 * partial repaint.
 *
- * $Id: view.c,v 1.145 2022/12/04 00:40:11 tom Exp $
+ * $Id: view.c,v 1.147 2024/10/06 21:08:05 tom Exp $
 */

#include <test.priv.h>
@@ -93,8 +93,7 @@

#if USE_WIDEC_SUPPORT
   for (;;) {
- int count;
- TEST_CCHAR(src, count, {
+ TEST_CCHAR(src, {
    int len = wcwidth(test_wch[0]);
    result += (len > 0) ? len : 1;
    ++src;
```

```
@@ -186,12 +185,10 @@
     */
    {
  int j;
-  int width = 1;
+  int width;

  for (j = actual = 0; j < shift; ++j) {
-     int count;
-
-
    TEST_CCHAR(s + j, count, {
+     TEST_CCHAR(s + j, {
   width = wcwidth(test_wch[0]);
     }
     , {
@@ -294,7 +291,7 @@

#if USE_WIDEC_SUPPORT
    if (!memcmp("\357\273\277", my_blob, 3)) {
- char *s = my_blob + 3;
+ const char *s = my_blob + 3;
 char *d = my_blob;
 Trace(("trim BOM"));
 do {
@@ -329,7 +326,7 @@
 char *s;
 int y, x;
#if USE_WIDEC_SUPPORT
- char *last = my_vec[k] + (int) strlen(my_vec[k]);
+ const char *last = my_vec[k] + (int) strlen(my_vec[k]);
 wchar_t wch[2];
 size_t rc;
#ifndef state_unused
@@ -408,7 +405,7 @@
int
main(int argc, char *argv[])
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
    {
 "Commands:",
 "  q,^Q,ESC       - quit this program",
@@ -659,7 +656,7 @@
     beep();
     break;
 }
- if (c >= KEY_MIN || (c > 0 && !isdigit(c))) {
```

```
+ if (c >= KEY_MIN || (c > 0 && !isdigit(UChar(c)))) {
    got_number = FALSE;
    value = 0;
 }
```

Found in path(s):
* /opt/cola/permits/2303554631_1736345227.5550623/0/ncurses-6-5-20241006-patch-gz/ncurses-6.5-20241006.patch

1.5668 gnupg-gpgconf 2.4.7-r0

1.5668.1 Available under license :

```
# Automatically generated by apkbuild-cpan, template 4
# Contributor: Valery Kartel <valery.kartel@gmail.com>
# Maintainer: Celeste <cielesti@protonmail.com>
maintainer="Celeste <cielesti@protonmail.com>"
pkgname=perl-bsd-resource
pkgver=1.2911
pkgrel=10
#_pkgreal is used by apkbuild-cpan to find modules at MetaCpan
_pkgreal=BSD-Resource
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="https://metacpan.org/release/BSD-Resource/"
arch="all"
license="Artistic-2.0 OR LGPL-2.0"
depends="perl"
makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/J/JH/JHI/BSD-Resource-$pkgver.tar.gz"
builddir="$srcdir/$_pkgreal-$pkgver"

build() {
 export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
 PERL_MM_USE_DEFAULT=1 perl -I. Makefile.PL \
  INSTALLDIRS=vendor \
  NO_PACKLIST=1 \
  NO_PERLLOCAL=1
 make
}

check() {
 export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
 make test
}

package() {
 make DESTDIR="$pkgdir" install
```

}

sha512sums="
d0032d41c7c0468ed1c6d8f57b885f6cb97a5039d754c8cb60b2067daedaf53bd15fb6561a3d0f828df16dfa5417f663b8065ba65f4fea16dc9262728b3b6b85
  BSD-Resource-1.2911.tar.gz
"

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Charlotte, NC 28269
USA

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see http://www.sqlite.org/copyright.html
Contributor: Maxim Karasev <begs@disroot.org>
Maintainer: mio <miyopan@e.email>

```
pkgname=bsd-games
pkgver=3.3
pkgrel=2
pkgdesc="traditional text mode games from BSD"
url="https://bsd-games.sourceforge.io/"
arch="all"
license="BSD-3-Clause"
install="$pkgname.post-install"
makedepends="ncurses-dev coreutils" # configure causes busybox expr error
subpackages="$pkgname-doc"
source="https://sourceforge.net/projects/bsd-games/files/bsd-games-$pkgver.tar.gz
 0001-bsd-games-scores-dir.patch
 "
options="!check" # no tests

build() {
 # some GNU autoconf options are ignored, but it works
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr \
  --sysconfdir=/etc \
  --mandir=/usr/share/man \
  --scoredir=/usr/share/$pkgname
 make
}

package() {
 make DESTDIR="$pkgdir" install
 install -Dm644 LICENSE "$pkgdir"/usr/share/licenses/bsd-games/LICENSE
}
```

sha512sums="
aaf36d09d4fe68514a5c279063d7e77a9a9a84c447037cba974b29faa07eb80c2aab2379d0699c196b5c27ffe1b2bb2c68d3390143e0e62d5e3d210ccfb61294
  bsd-games-3.3.tar.gz
e1def0d4835a877242c4173fae862e278a7858738e0bacacbb045a42bcabec2aa7c72d000bbd2421ce35fe66cdc1f52c0577b7e278029ca5ed50f7aab22319f6 0001-bsd-games-scores-dir.patch
"
 Vintage Dreams Waves v 2.0. for Creative Labs' AWE Soundcards
(EMU Soundfont 2 Format)

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```
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# Contributor: Carlo Landmeter <clandmeter@alpinelinux.org>
# Maintainer: Kevin Daudt <kdaudt@alpinelinux.org>
pkgname=spdx-licenses
pkgver=3.24.0
pkgrel=0
pkgdesc="Various data formats for the SPDX License List"
url="https://spdx.org/"
arch="noarch"
options="!check" # no test suite
license="CC-BY-3.0"
source="license-list-data-$pkgver.tar.gz::https://github.com/spdx/license-list-data/archive/v$pkgver.tar.gz"
builddir="$srcdir/license-list-data-$pkgver"
subpackages="$pkgname-list"

_types="html json rdfa rdfnt rdfturtle rdfxml template text"

for type in $_types; do
 subpackages="$subpackages $pkgname-$type:_subpkg"
done

package() {
 mkdir -p "$pkgdir"
}

_subpkg() {
 local type=${subpkgname/$pkgname-/}
 pkgdesc="$pkgdesc ($type)"
 install_if="$pkgname=$pkgver-r$pkgrel"
 mkdir -p "$subpkgdir"/usr/share/spdx
 cp -r "$builddir"/$type "$subpkgdir"/usr/share/spdx/
}

list() {
 pkgdesc="$pkgdesc (licence list)"
 mkdir -p "$subpkgdir"/usr/share/spdx
 local i; for i in "$builddir"/text/*.txt;
 do
  local license=${i##*/}
  echo ${license%.*} >> "$subpkgdir"/usr/share/spdx/license.lst
 done
}

sha512sums="
6eb81424e1b3173dbd8e17859b2e15dfe1c2af8f4da59b7dad0729c038a4cbdba95c34c2c546285fcdbbd41562e39575e
6a6ebb9463b70121e0a12b99d1307e7  license-list-data-3.24.0.tar.gz
```

"
mini_sendmail - accept email on behalf of real sendmail

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SUCH DAMAGE.
# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=8
pkgdesc="A library for high-performance 2D graphics"
url="https://www.levien.com/libart/"
arch="all"
options="!check" # No test suite.
license="LGPL-2.0-or-later"
subpackages="$pkgname-dev"
source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2
 "

builddir="$srcdir"/libart_lgpl-$pkgver

prepare() {
 update_config_sub
 default_prepare
}

build() {

```
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr
 make
}

package() {
 make DESTDIR="$pkgdir" install
}

sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e7
6654309e001aee9bace727b5b4c8589405256a3c020  libart_lgpl-2.3.21.tar.bz2"
# Contributor: Carlo Landmeter <clandmeter@alpinelinux.org>
# Maintainer: Kevin Daudt <kdaudt@alpinelinux.org>
pkgname=spdx-licenses
pkgver=3.26.0
pkgrel=0
pkgdesc="Various data formats for the SPDX License List"
url="https://spdx.org/"
arch="noarch"
options="!check" # no test suite
license="CC-BY-3.0"
source="license-list-data-$pkgver.tar.gz::https://github.com/spdx/license-list-data/archive/v$pkgver.tar.gz"
builddir="$srcdir/license-list-data-$pkgver"
subpackages="$pkgname-list"

_types="html json rdfa rdfnt rdfturtle rdfxml template text"

for type in $_types; do
 subpackages="$subpackages $pkgname-$type:_subpkg"
done

package() {
 mkdir -p "$pkgdir"
}

_subpkg() {
 local type=${subpkgname/$pkgname-/}
 pkgdesc="$pkgdesc ($type)"
 install_if="$pkgname=$pkgver-r$pkgrel"
 mkdir -p "$subpkgdir"/usr/share/spdx
 cp -r "$builddir"/$type "$subpkgdir"/usr/share/spdx/
}

list() {
 pkgdesc="$pkgdesc (licence list)"
 mkdir -p "$subpkgdir"/usr/share/spdx
```

```
 local i; for i in "$builddir"/text/*.txt;
 do
  local license=${i##*/}
  echo ${license%.*} >> "$subpkgdir"/usr/share/spdx/license.lst
 done
}

sha512sums="
67e618d4642dfe4f366935d9514d6f7941d3711e77c49bc1b340ac572d36015981b8f10c72a9f80f1d83e132ae7e5093c
0155e0c0e786e4777ee16d1cb7b885a  license-list-data-3.26.0.tar.gz
"
# Contributor: Patrycja Rosa <alpine@ptrcnull.me>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=bsd-compat-headers
pkgver=0.7.2
pkgrel=6
pkgdesc="BSD compatibility headers (cdefs, queue, tree)"
url="https://gitlab.alpinelinux.org/alpine/aports"
arch="noarch"
license="BSD-2-Clause AND BSD-3-Clause"
source="
 cdefs.h
 queue.h
 tree.h
"
builddir="$srcdir"
options="!check" # just headers

package() {
 mkdir -p "$pkgdir"
 install -Dm644 -t "$pkgdir"/usr/include/sys \
  cdefs.h queue.h tree.h
}
sha512sums="
37c8fc73c7aea7b490f7850927e2bb91d12137c9e59e22c084146d515696dbc7973b5de92f4c987ba080dd2502ba8312
7006442c3f019b6447a620c0cae73178  cdefs.h
2f0d5e6e4dc3350285cf17009265dddcbe12431c111868eea39bc8cb038ab7c1f2acacbb21735c4e9d4a1fd106a8fc0f86
11ea33987d4faba37dde5ce6da0750  queue.h
d9ac210d81feb8ad2655bc80fb065d3fe20ae4417b32b4a1711e6738a4870140005c13373b5d1846ef3ce5ae6da45f2da
cef2092881eded0a2e94f6a07752ef3  tree.h
"
# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=5
pkgdesc="A library for high-performance 2D graphics"
url="http://www.levien.com/libart/"
arch="all"
```

```
license="LGPL"
depends=
makedepends=
subpackages="$pkgname-dev"
source="http://ftp.gnome.org/pub/GNOME/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2
 "

_builddir="$srcdir"/libart_lgpl-$pkgver
build() {
 cd "$_builddir"
 ./configure --prefix=/usr || return 1
 make || return 1
}

package() {
 cd "$_builddir"
 make DESTDIR="$pkgdir" install || return 1
 rm "$pkgdir"/usr/lib/*.la
}

md5sums="08559ff3c67fd95d57b0c5e91a6b4302  libart_lgpl-2.3.21.tar.bz2"
```

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The X-Spline code was written Carole Blanc (blanc@labri.u-bordeaux.fr) and Christophe Schlick (schlick@labri.u-bordeaux.fr) starting from an initial implementation done by C. Feuille, S. Grosbois, L. Maziere and L. Minihot as a student practice (Universite Bordeaux, France). For additional information about X-splines, see:
"X-Splines: A Spline Model Designed for the End User" by C. Blanc and C. Schlick, Proceedings of SIGGRAPH'95
http://dept-info.labri.u-bordeaux.fr/~schlick/DOC/sig1.html

```
# Contributor: Dhruvin Gandhi <contact@dhru.vin>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=py3-license-expression
_pkgname=license_expression
pkgver=30.4.1
pkgrel=0
pkgdesc="Library to parse, compare, simplify and normalize license expressions"
url="https://github.com/nexB/license-expression"
arch="noarch"
license="Apache-2.0"
depends="python3 py3-boolean.py"
makedepends="py3-setuptools py3-setuptools_scm py3-gpep517 py3-wheel"
checkdepends="py3-pytest py3-pytest-xdist"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/l/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir/$_pkgname-$pkgver"

build() {
 gpep517 build-wheel \
  --wheel-dir .dist \
  --output-fd 3 3>&1 >&2
}

check() {
 python3 -m venv --clear --without-pip --system-site-packages .testenv
 .testenv/bin/python3 -m installer .dist/*.whl
 .testenv/bin/python3 -m pytest
}

package() {
 python3 -m installer -d "$pkgdir" \
  .dist/*.whl
}

sha512sums="
114c630f098939757e49187e35b4e54883266a2ee9ca283724992420ef4c860f9606a8342da0ab74d93627c10805f312
fda3f699cbc7c4fbd47a71e220440fb0
  license_expression-30.4.1.tar.gz
"
# Contributor: Fabian Affolter <fabian@affolter-engineering.ch>
# Maintainer: Fabian Affolter <fabian@affolter-engineering.ch>
pkgname=py3-flake8-copyright
_pkgname=flake8-copyright
```

```
pkgver=0.2.4
pkgrel=3
pkgdesc="Extension for flake8 which checks for copyrights"
options="!check" # No testsuite
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="py3-flake8 py3-setuptools"
makedepends="py3-gpep517 py3-wheel"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/${_pkgname:0:1}/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir"/$_pkgname-$pkgver

replaces="py-flake8-copyright"                  # Backwards compatibility
provides="py-flake8-copyright=$pkgver-r$pkgrel" # Backwards compatibility

build() {
 gpep517 build-wheel \
  --wheel-dir .dist \
  --output-fd 3 3>&1 >&2
}

package() {
 gpep517 install-wheel --destdir "$pkgdir" \
  .dist/*.whl
}

sha512sums="
a6ab47e1bb715618f075c51f398e18180404871b3b0faf1c2d30701d5203db6bc23771bf22ffb5bafcd8ee856b9b64237
b316bd503ae7dceed6ca284ccd5a74d
  flake8-copyright-0.2.4.tar.gz
"
# Maintainer: fossdd <fossdd@pwned.life>
pkgname=cargo-license
pkgver=0.6.1
pkgrel=1
pkgdesc="Cargo subcommand to see license of dependencies"
url="https://github.com/onur/cargo-license"
arch="all"
license="MIT"
makedepends="cargo cargo-auditable"
source="$pkgname-$pkgver.tar.gz::https://crates.io/api/v1/crates/cargo-license/$pkgver/download"

prepare() {
 default_prepare

 cargo fetch --target="$CTARGET" --locked
}
```

```
build() {
 cargo auditable build --release --frozen
}

check() {
 cargo test --frozen
}

package() {
 install -Dm755 target/release/cargo-license -t "$pkgdir"/usr/bin
}

sha512sums="
36215145e79965be090ae2f5ce6f5eb208465eb67a94c26bed1fe70a131c46c6dc35695e30852759b7366883fbc3caf00
272d796ac634f0a5e1d49232b6b29d5  cargo-license-0.6.1.tar.gz
"
# Contributor: Dhruvin Gandhi <contact@dhru.vin>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=py3-license-expression
_pkgname=license_expression
pkgver=30.4.0
pkgrel=0
pkgdesc="Library to parse, compare, simplify and normalize license expressions"
url="https://github.com/nexB/license-expression"
arch="noarch"
license="Apache-2.0"
depends="python3 py3-boolean.py"
makedepends="py3-setuptools py3-setuptools_scm py3-gpep517 py3-wheel"
checkdepends="py3-pytest py3-pytest-xdist"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/l/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir/$_pkgname-$pkgver"

build() {
 gpep517 build-wheel \
  --wheel-dir .dist \
  --output-fd 3 3>&1 >&2
}

check() {
 python3 -m venv --clear --without-pip --system-site-packages .testenv
 .testenv/bin/python3 -m installer .dist/*.whl
 .testenv/bin/python3 -m pytest
}

package() {
 python3 -m installer -d "$pkgdir" \
```

```
  .dist/*.whl
}

sha512sums="
cc7cd6b5bd8ea4c99b66f074871ffd7cc78b3e8b1b0d3afd9b95efdb7147c8293db2fac977d684fc34d3d60bd79066a06
dc2bff0a38b130d9d83c63538502db1
  license_expression-30.4.0.tar.gz
"
```

1.5669 libsasl 2.1.28-r8

1.5669.1 Available under license :

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* Tim Martin
* Rob Earhart
* Rob Siemborski
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1.5670 gnupg-dirmngr 2.4.7-r0

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package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
 Plugin     string
 Option     string
 Severity   string // 'deprecated', 'removed', or 'unsupported'
 ReplacedBy string
 Additional string
 Version    string
}

func (n *Notice) ToString() string {
 s := ""
 if n.Option == "" {
  s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
 } else {
  s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
 }
 if n.Severity == SevUnsupported {
  s += "is unsupported by this migration tool in " + n.Version + "."
 } else if n.Severity == SevNewDefault {
  s += "is added as a default in " + n.Version + "."
 } else {
  s += "is " + n.Severity + " in " + n.Version + "."
 }
 if n.ReplacedBy != "" {
  s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
 }
 if n.Additional != "" {
  s += " " + n.Additional
 }
 return s
}

const (
 // The following statuses are used to indicate the state of support/deprecation in a given release.
 SevDeprecated  = "deprecated"
```

// deprecated, but still completely functional
SevIgnored = "ignored" // if included in the corefile, it will be ignored by CoreDNS
SevRemoved = "removed" // completely removed from CoreDNS, and would cause CoreDNS to exit if present in the Corefile
SevNewDefault = "newdefault" // added to the default corefile. CoreDNS may not function properly if it is not present in the corefile.
SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool

// The following statuses are used for selecting/filtering notifications
SevAll = "all" // show all statuses
)
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==========
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==========
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// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL string `json:"url,omitempty"`
}

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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The common/types/pb/equal.go modification of proto.Equal logic

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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# Automatically generated by apkbuild-cpan, template 4
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maintainer="Celeste <cielesti@protonmail.com>"
pkgname=perl-bsd-resource
pkgver=1.2911
pkgrel=10
#_pkgreal is used by apkbuild-cpan to find modules at MetaCpan
_pkgreal=BSD-Resource
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="https://metacpan.org/release/BSD-Resource/"
arch="all"
license="Artistic-2.0 OR LGPL-2.0"
depends="perl"
makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/J/JH/JHI/BSD-Resource-$pkgver.tar.gz"
builddir="$srcdir/$_pkgreal-$pkgver"

build() {
 export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
 PERL_MM_USE_DEFAULT=1 perl -I. Makefile.PL \
  INSTALLDIRS=vendor \
  NO_PACKLIST=1 \
  NO_PERLLOCAL=1
 make
}

check() {
 export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
 make test
}

package() {
 make DESTDIR="$pkgdir" install
```

```
}

sha512sums="
d0032d41c7c0468ed1c6d8f57b885f6cb97a5039d754c8cb60b2067daedaf53bd15fb6561a3d0f828df16dfa5417f663b
8065ba65f4fea16dc9262728b3b6b85
  BSD-Resource-1.2911.tar.gz
"
# Contributor: Maxim Karasev <begs@disroot.org>
# Maintainer: mio <miyopan@e.email>
pkgname=bsd-games
pkgver=3.3
pkgrel=1
pkgdesc="traditional text mode games from BSD"
url="https://bsd-games.sourceforge.io/"
arch="all"
license="BSD-3-Clause"
install="$pkgname.post-install"
makedepends="ncurses-dev coreutils" # configure causes busybox expr error
subpackages="$pkgname-doc"
source="https://sourceforge.net/projects/bsd-games/files/bsd-games-$pkgver.tar.gz"
options="!check" # no tests

build() {
 # some GNU autoconf options are ignored, but it works
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr \
  --sysconfdir=/etc \
  --mandir=/usr/share/man \
  --localstatedir=/var/lib # it really shouldn't be in /var
 make
}

package() {
 make DESTDIR="$pkgdir" install
 install -Dm644 LICENSE "$pkgdir"/usr/share/licenses/bsd-games/LICENSE
}

sha512sums="
aaf36d09d4fe68514a5c279063d7e77a9a9a84c447037cba974b29faa07eb80c2aab2379d0699c196b5c27ffe1b2bb2c6
8d3390143e0e62d5e3d210ccfb61294
  bsd-games-3.3.tar.gz
"
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Version 3.1, 31 March 2009

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```
# Contributor: Carlo Landmeter <clandmeter@alpinelinux.org>
# Maintainer: Kevin Daudt <kdaudt@alpinelinux.org>
pkgname=spdx-licenses
pkgver=3.24.0
pkgrel=0
pkgdesc="Various data formats for the SPDX License List"
url="https://spdx.org/"
arch="noarch"
options="!check" # no test suite
license="CC-BY-3.0"
source="license-list-data-$pkgver.tar.gz::https://github.com/spdx/license-list-data/archive/v$pkgver.tar.gz"
builddir="$srcdir/license-list-data-$pkgver"
subpackages="$pkgname-list"

_types="html json rdfa rdfnt rdfturtle rdfxml template text"

for type in $_types; do
 subpackages="$subpackages $pkgname-$type:_subpkg"
done

package() {
 mkdir -p "$pkgdir"
}

_subpkg() {
 local type=${subpkgname/$pkgname-/}
 pkgdesc="$pkgdesc ($type)"
 install_if="$pkgname=$pkgver-r$pkgrel"
 mkdir -p "$subpkgdir"/usr/share/spdx
 cp -r "$builddir"/$type "$subpkgdir"/usr/share/spdx/
}

list() {
 pkgdesc="$pkgdesc (licence list)"
 mkdir -p "$subpkgdir"/usr/share/spdx
 local i; for i in "$builddir"/text/*.txt;
 do
  local license=${i##*/}
  echo ${license%.*} >> "$subpkgdir"/usr/share/spdx/license.lst
 done
```

```
}

sha512sums="
6eb81424e1b3173dbd8e17859b2e15dfe1c2af8f4da59b7dad0729c038a4cbdba95c34c2c546285fcdbbd41562e39575e
6a6ebb9463b70121e0a12b99d1307e7  license-list-data-3.24.0.tar.gz
"
```

mini_sendmail - accept email on behalf of real sendmail

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```
# This source code was written by the Go contributors.
# The master list of contributors is in the main Go distribution,
# visible at http://tip.golang.org/CONTRIBUTORS.
# Maintainer: fossdd <fossdd@pwned.life>
pkgname=cargo-license
pkgver=0.6.1
pkgrel=1
pkgdesc="Cargo subcommand to see license of dependencies"
url="https://github.com/onur/cargo-license"
arch="all"
license="MIT"
makedepends="cargo cargo-auditable"
source="$pkgname-$pkgver.tar.gz::https://crates.io/api/v1/crates/cargo-license/$pkgver/download"

prepare() {
 default_prepare
```

```
 cargo fetch --target="$CTARGET" --locked
}

build() {
 cargo auditable build --release --frozen
}

check() {
 cargo test --frozen
}

package() {
 install -Dm755 target/release/cargo-license -t "$pkgdir"/usr/bin
}

sha512sums="
36215145e79965be090ae2f5ce6f5eb208465eb67a94c26bed1fe70a131c46c6dc35695e30852759b7366883fbc3caf00
272d796ac634f0a5e1d49232b6b29d5  cargo-license-0.6.1.tar.gz
"
```

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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Version 3.1, 31 March 2009

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mach_override	lib/interception/mach_override

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1.5698 utmps-libs 0.1.2.3-r2

1.5698.1 Available under license :

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1.5699 py3-packaging-pyc 24.2-r0

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1.5700 libpanelw 6.5_p20241006-r3

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```
# ncurses 6.5 - patch 20241006 - Thomas E. Dickey
#
# -------------------------------------------------------------------------------
#
# Ncurses 6.5 is at
#   https://invisible-island.net/archives/ncurses/
#   https://invisible-mirror.net/archives/ncurses/
#   https://ftp.gnu.org/gnu/ncurses/
#
# Patches for ncurses 6.5 can be found at
#   https://invisible-island.net/archives/ncurses/6.5
#   https://invisible-mirror.net/archives/ncurses/6.5
#
# -------------------------------------------------------------------------------
# https://invisible-island.net/archives/ncurses/6.5/ncurses-6.5-20241006.patch.gz
# patch by Thomas E. Dickey <dickey@invisible-island.net>
# created  Sun Oct  6 23:44:01 UTC 2024
# -------------------------------------------------------------------------------
# NEWS                        |   6 +++
# VERSION                     |   2 -
# c++/cursesf.cc              |   6 +--
# c++/cursesf.h
                              |   6 +--
# c++/cursesm.cc              |   6 +--
# c++/cursesm.h               |   6 +--
```

```
# c++/cursesp.cc                    |    6 +--
# c++/cursespad.cc                  |    6 +--
# c++/cursslk.cc                    |   12 +++----
# c++/cursslk.h                     |    6 +--
# dist.mk                           |    4 +-
# misc/terminfo.src                 |   23 ++++++++++--
# ncurses/base/lib_screen.c         |    4 +-
# ncurses/base/new_pair.c           |    4 +-
# ncurses/curses.priv.h             |    4 +-
# ncurses/new_pair.h                |    4 +-
# ncurses/tinfo/trim_sgr0.c         |    7 ++--
# ncurses/tty/lib_twait.c           |    6 +--
# package/debian-mingw/changelog    |    4 +-
# package/debian-mingw64/changelog  |    4 +-
# package/debian/changelog          |    4 +-
# package/mingw-ncurses.nsi         |    4 +-
# package/mingw-ncurses.spec        |    2 -
# package/ncurses.spec              |    2 -
# package/ncursest.spec             |
    2 -
# test/blue.c                       |   10 +++---
# test/bs.c                         |    8 ++--
# test/cardfile.c                   |   12 +++----
# test/chgat.c                      |    6 +--
# test/clip_printw.c                |    8 ++--
# test/color_name.h                 |    6 +--
# test/demo_defkey.c                |    4 +-
# test/demo_forms.c                 |   22 ++++++-------
# test/demo_menus.c                 |   32 ++++++++++---------
# test/demo_new_pair.c              |    4 +-
# test/demo_panels.c                |   16 ++++-----
# test/demo_termcap.c               |   18 +++++-----
# test/demo_terminfo.c              |   18 +++++-----
# test/dots.c                       |    6 +--
# test/dots_mvcur.c                 |    6 +--
# test/dots_termcap.c               |    8 ++--
# test/dup_field.c                  |   14 ++++----
# test/filter.c                     |    6 +--
# test/form_driver_w.c              |    6 +--
# test/gdc.c                        |   10 +++---
# test/inch_wide.c
                    |    6 +--
# test/inchs.c                      |    6 +--
# test/ins_wide.c                   |    6 +--
# test/insdelln.c                   |    8 ++--
# test/inserts.c                    |    6 +--
# test/knight.c                     |    7 ++--
# test/list_keys.c                  |    8 ++--
```

```
# test/move_field.c              |   18 +++++-----
# test/movewindow.c              |   16 ++++-----
# test/ncurses.c                 |   61 +++++++++++++++++++------------------
# test/padview.c                 |   12 +++----
# test/parse_rgb.h               |    6 +--
# test/picsmap.c                 |   14 ++++----
# test/popup_msg.c               |    8 ++--
# test/popup_msg.h               |    6 +--
# test/railroad.c                |    6 +--
# test/rain.c                    |   20 ++++++------
# test/redraw.c                  |    6 +--
# test/savescreen.c              |   14 ++++----
# test/tclock.c                  |    4 +-
# test/test.priv.h
                |   10 +++---
# test/test_add_wchstr.c         |    6 +--
# test/test_addchstr.c           |    6 +--
# test/test_addstr.c             |    6 +--
# test/test_addwstr.c            |    6 +--
# test/test_endwin.c             |    6 +--
# test/test_get_wstr.c           |    8 ++--
# test/test_getstr.c             |    8 ++--
# test/test_instr.c              |    8 ++--
# test/test_inwstr.c             |    8 ++--
# test/test_mouse.c              |    4 +-
# test/test_opaque.c             |    8 ++--
# test/test_sgr.c                |   26 +++++++--------
# test/test_tparm.c              |   12 +++----
# test/test_vidputs.c            |    6 +--
# test/testcurs.c                |    8 ++--
# test/testscanw.c               |    6 +--
# test/view.c                    |   21 +++++-------
# 83 files changed, 392 insertions(+), 369 deletions(-)
# ------------------------------------------------------------------------------
Index: NEWS
Prereq:
  1.4185
--- ncurses-6.5-20240928+/NEWS 2024-09-28 20:27:44.000000000 +0000
+++ ncurses-6.5-20241006/NEWS 2024-10-06 08:53:45.000000000 +0000
@@ -26,7 +26,7 @@
-- sale, use or other dealings in this Software without prior written        --
-- authorization.                                                            --
------------------------------------------------------------------------------
--- $Id: NEWS,v 1.4185 2024/09/28 20:27:44 tom Exp $
+-- $Id: NEWS,v 1.4188 2024/10/06 08:53:45 tom Exp $
------------------------------------------------------------------------------
```

This is a log of changes that ncurses has gone through since Zeyd started

```
@@ -46,6 +46,10 @@
Changes through 1.9.9e did not credit all contributions;
it is not possible to add this information.

+20241006
+ + fixes for compiler warnings/cppcheck.
+ + use xterm+alt+title in wezterm -TD
+
20240928
 + improve error-message from infocmp when a terminal entry cannot be
   opened (patch by Branden Robinson).
Index:
 VERSION
--- ncurses-6.5-20240928+/VERSION 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/VERSION 2024-10-06 08:53:45.000000000 +0000
@@ -1 +1 @@
-5:0:10 6.5 20240928
+5:0:10 6.5 20241006
Index: c++/cursesf.cc
Prereq:  1.26
--- ncurses-6.5-20240928+/c++/cursesf.cc 2021-04-17 18:11:08.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursesf.cc 2024-10-05 22:47:12.000000000 +0000
@@ -1,6 +1,6 @@
// * this is for making emacs happy: -*-Mode: C++;-*-
/****************************************************************************
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 *                                                                          *
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@@ -36,7 +36,7 @@
#include "cursesf.h"
#include "cursesapp.h"

-MODULE_ID("$Id: cursesf.cc,v 1.26 2021/04/17 18:11:08 tom Exp $")
+MODULE_ID("$Id: cursesf.cc,v 1.27 2024/10/05 22:47:12 tom Exp $")

NCursesFormField::~NCursesFormField () THROWS(NCursesException)
{
@@ -76,7 +76,7 @@

void NCursesForm::setDefaultAttributes()
{
-  NCursesApplication* S = NCursesApplication::getApplication();
+  const NCursesApplication* S = NCursesApplication::getApplication();

  int n = count();
  if (n > 0) {
```

```
Index: c++/cursesf.h
Prereq:  1.39
--- ncurses-6.5-20240928+/c++/cursesf.h 2022-08-20 20:52:15.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursesf.h 2024-10-05 22:47:12.000000000 +0000
@@ -1,7 +1,7 @@
// * This makes emacs happy -*-Mode: C++;-*-
// vile:cppmode
/******************************************************************************
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 *                                                                            *
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@@ -33,7 +33,7 @@
 *   Author: Juergen Pfeifer, 1997                                            *
 ******************************************************************************/

-// $Id: cursesf.h,v 1.39 2022/08/20 20:52:15 tom Exp $
+// $Id: cursesf.h,v 1.40 2024/10/05 22:47:12 tom Exp $

#ifndef NCURSES_CURSESF_H_incl
#define NCURSES_CURSESF_H_incl 1
@@ -384,7 +384,7 @@
  }

  inline void *get_user() {
-    UserHook* uptr = reinterpret_cast<UserHook*>(::form_userptr (form));
+    const UserHook* uptr = reinterpret_cast<UserHook*>(::form_userptr (form));
    assert (uptr != 0 && uptr->m_back==this && uptr->m_owner==form);
    return uptr->m_user;
  }
Index: c++/cursesm.cc
Prereq:  1.27
--- ncurses-6.5-20240928+/c++/cursesm.cc 2021-04-17 18:11:08.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursesm.cc 2024-10-05
 22:47:12.000000000 +0000
@@ -1,6 +1,6 @@
// * this is for making emacs happy: -*-Mode: C++;-*-
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 *                                                                            *
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@@ -36,7 +36,7 @@
#include "cursesm.h"
#include "cursesapp.h"
```

```
-MODULE_ID("$Id: cursesm.cc,v 1.27 2021/04/17 18:11:08 tom Exp $")
+MODULE_ID("$Id: cursesm.cc,v 1.28 2024/10/05 22:47:12 tom Exp $")

NCursesMenuItem::~NCursesMenuItem() THROWS(NCursesException)
{
@@ -168,7 +168,7 @@
void
NCursesMenu::setDefaultAttributes()
{
-  NCursesApplication* S = NCursesApplication::getApplication();
+
  const NCursesApplication* S = NCursesApplication::getApplication();
  if (S) {
    ::set_menu_fore(menu, S->foregrounds());
    ::set_menu_back(menu, S->backgrounds());
Index: c++/cursesm.h
Prereq:  1.35
--- ncurses-6.5-20240928+/c++/cursesm.h 2022-08-20 20:52:15.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursesm.h 2024-10-05 22:47:12.000000000 +0000
@@ -1,6 +1,6 @@
// * This makes emacs happy -*-Mode: C++;-*-
/****************************************************************************
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 *                                                                          *
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@@ -32,7 +32,7 @@
 *   Author: Juergen Pfeifer, 1997                                          *
 ****************************************************************************/

-// $Id: cursesm.h,v 1.35 2022/08/20 20:52:15 tom Exp $
+// $Id: cursesm.h,v 1.36 2024/10/05 22:47:12 tom Exp $

#ifndef NCURSES_CURSESM_H_incl
#define NCURSES_CURSESM_H_incl 1
@@ -245,7 +245,7 @@
  }

  inline void *get_user() {
-    UserHook* uptr = STATIC_CAST(UserHook*)(::menu_userptr (menu));
+    const UserHook* uptr = STATIC_CAST(UserHook*)(::menu_userptr (menu));
    assert (uptr != 0 && uptr->m_back==this && uptr->m_owner==menu);
    return uptr->m_user;
  }
Index: c++/cursesp.cc
Prereq:  1.27
```

```
--- ncurses-6.5-20240928+/c++/cursesp.cc 2020-02-02 23:34:34.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursesp.cc 2024-10-05 22:47:12.000000000 +0000
@@ -1,6 +1,6 @@
// * this is for making emacs happy: -*-Mode: C++;-*-
/*****************************************************************************
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 Thomas E. Dickey                                                           *
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 *                                                                           *
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@@ -35,7 +35,7 @@
#include "internal.h"
#include "cursesp.h"

-MODULE_ID("$Id: cursesp.cc,v 1.27 2020/02/02 23:34:34 tom Exp $")
+MODULE_ID("$Id: cursesp.cc,v 1.28 2024/10/05 22:47:12 tom Exp $")

NCursesPanel* NCursesPanel::dummy = static_cast<NCursesPanel*>(0);

@@ -64,7 +64,7 @@
void
NCursesPanel::redraw()
{
-  PANEL *pan;
+  const PANEL *pan;

  pan = ::panel_above(NULL);
  while (pan) {
Index: c++/cursespad.cc
Prereq:  1.18
--- ncurses-6.5-20240928+/c++/cursespad.cc 2020-02-02 23:34:34.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursespad.cc 2024-10-05 22:47:12.000000000 +0000
@@ -1,6 +1,6 @@
// * this is for making emacs happy: -*-Mode: C++;-*-
/*****************************************************************************
-
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 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -36,7 +36,7 @@

#include <cursesw.h>

-MODULE_ID("$Id: cursespad.cc,v 1.18 2020/02/02 23:34:34 tom Exp $")
+MODULE_ID("$Id: cursespad.cc,v 1.19 2024/10/05 22:47:12 tom Exp $")
```

```
NCursesPad::NCursesPad(int nlines, int ncols)
  : NCursesWindow(),
@@ -221,7 +221,7 @@
void NCursesFramedPad::OnOperation(int pad_req)
{
  (void) pad_req;
-  NCursesWindow* W = Win();
+  const NCursesWindow* W = Win();
  NCursesWindow* W2 = getWindow();

  if ((static_cast<NCursesWindow*>(0) != W) && (static_cast<NCursesWindow*>(0) != W2)) {
Index: c++/cursslk.cc
Prereq:
  1.22
--- ncurses-6.5-20240928+/c++/cursslk.cc 2024-06-15 21:07:30.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursslk.cc 2024-10-05 19:36:22.000000000 +0000
@@ -35,10 +35,10 @@
#include "internal.h"
#include "cursesapp.h"

-MODULE_ID("$Id: cursslk.cc,v 1.22 2024/06/15 21:07:30 tom Exp $")
+MODULE_ID("$Id: cursslk.cc,v 1.23 2024/10/05 19:36:22 tom Exp $")

Soft_Label_Key_Set::Soft_Label_Key&
-  Soft_Label_Key_Set::Soft_Label_Key::operator=(char *text)
+  Soft_Label_Key_Set::Soft_Label_Key::operator=(const char *text)
{
  delete[] label;
  size_t need = 1 + ::strlen(text);
@@ -111,11 +111,11 @@

void Soft_Label_Key_Set::activate_label(int i, bool bf) {
  if (!b_attrInit) {
-    NCursesApplication* A = NCursesApplication::getApplication();
+    const NCursesApplication* A = NCursesApplication::getApplication();
    if (A) attrset(A->labels());
    b_attrInit = TRUE;
  }
-  Soft_Label_Key& K = (*this)[i];
+  const Soft_Label_Key& K = (*this)[i];
  if (ERR==::slk_set(K.num,bf?K.label:"",K.format))
     Error("slk_set");
  noutrefresh();
@@ -124,12 +124,12 @@
void Soft_Label_Key_Set::activate_labels(bool bf)
{
  if (!b_attrInit) {
```

```
-    NCursesApplication* A = NCursesApplication::getApplication();
+    const NCursesApplication* A = NCursesApplication::getApplication();
    if (A) attrset(A->labels());
    b_attrInit = TRUE;
  }
  for(int i=1; i <= num_labels; i++) {
-    Soft_Label_Key& K = (*this)[i];
+    const Soft_Label_Key& K = (*this)[i];
    if (ERR==::slk_set(K.num,bf?K.label:"",K.format))
      Error("slk_set");
  }
Index: c++/cursslk.h
Prereq:  1.19
--- ncurses-6.5-20240928+/c++/cursslk.h 2021-04-17 18:11:08.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursslk.h 2024-10-05 22:47:12.000000000 +0000
@@ -1,7 +1,7 @@
// * this is for making emacs happy: -*-Mode: C++;-*-
// vile:cppmode
/*****************************************************************************
- * Copyright 2019-2020,2021 Thomas E. Dickey
            *
+ * Copyright 2019-2021,2024 Thomas E. Dickey                              *
 * Copyright 1998-2003,2005 Free Software Foundation, Inc.                 *
 *                                                                         *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -33,7 +33,7 @@
 *   Author: Juergen Pfeifer, 1997                                         *
 *****************************************************************************/

-// $Id: cursslk.h,v 1.19 2021/04/17 18:11:08 tom Exp $
+// $Id: cursslk.h,v 1.20 2024/10/05 22:47:12 tom Exp $

#ifndef NCURSES_CURSSLK_H_incl
#define NCURSES_CURSSLK_H_incl
@@ -62,7 +62,7 @@

  public:
    // Set the text of the Label
-    Soft_Label_Key& operator=(char *text);
+    Soft_Label_Key& operator=(const char *text);

    // Set the Justification of the Label
    Soft_Label_Key& operator=(Justification just) {
Index: dist.mk
Prereq:  1.1634
--- ncurses-6.5-20240928+/dist.mk 2024-09-28
 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/dist.mk 2024-10-06 08:53:45.000000000 +0000
```

```
@@ -26,7 +26,7 @@
# use or other dealings in this Software without prior written              #
# authorization.                                                            #
##############################################################################
-# $Id: dist.mk,v 1.1634 2024/09/28 09:53:21 tom Exp $
+# $Id: dist.mk,v 1.1636 2024/10/06 08:53:45 tom Exp $
# Makefile for creating ncurses distributions.
#
# This only needs to be used directly as a makefile by developers, but
@@ -38,7 +38,7 @@
# These define the major/minor/patch versions of ncurses.
NCURSES_MAJOR = 6
NCURSES_MINOR = 5
-NCURSES_PATCH = 20240928
+NCURSES_PATCH = 20241006

# We don't append the patch to the version, since this only applies to releases
VERSION = $(NCURSES_MAJOR).$(NCURSES_MINOR)
Index: misc/terminfo.src
--- ncurses-6.5-20240928+/misc/terminfo.src 2024-09-07 16:23:31.000000000
 +0000
+++ ncurses-6.5-20241006/misc/terminfo.src 2024-10-05 16:04:17.000000000 +0000
@@ -6,8 +6,8 @@
# Report bugs and new terminal descriptions to
# bug-ncurses@gnu.org
#
-# $Revision: 1.1150 $
-# $Date: 2024/09/07 16:23:31 $
+# $Revision: 1.1153 $
+# $Date: 2024/10/05 16:04:17 $
#
# The original header is preserved below for reference.  It is noted that there
# is a "newer" version which differs in some cosmetic details (but actually
@@ -8060,6 +8060,17 @@
# "wezterm is a terminal emulator with support for modern features
#  such as fonts with ligatures, hyperlinks, tabs and multiple windows."
#
+# The documentation bears mention.  It refers to the "ANSI" standard and
+#  https://wezfurlong.org/wezterm/what-is-a-terminal.html#ansi-and-ecma-48
+# X3.64 (withdrawn long ago).  A related website
+# https://github.com/wez/ecma48
+# states that ECMA-48 was issued in 1979 and not revised since.  Actually that
+# was the second revision; the fifth revision in 1991 is current.  The source
+#
 code refers to the second revision in a half-dozen places.  Further, there
+# are three times as many references to Wikipedia as to xterm's documentation.
+# The git commit comments in several instances hint at an incomplete reading
+# of the relevant standards.
```

```
+#
# wezterm-20240203-110809-5046fc22 tested with MacOS
# General:
# + initial screensize is now 80x24
@@ -8094,7 +8105,7 @@
# + poor (doesn't copy anyone, most of the results are wrong)
# vttest:
# + DA is VT5xx with sixel, selective erase, user windows, color
-# + DA2 is VT220 version 277
+# + DA2 is VT220 version 277, perhaps a reference to xterm #277
# + only the VT100 character set works, contrary to DA/DA2.
# + no NRCS, either
# + double-sized character work, with some debris
@@ -8136,7 +8147,7 @@
 use=ansi+rep, use=ansi+sgrdim, use=bracketed+paste,
 use=ecma+index, use=ecma+italics, use=ecma+strikeout,
 use=report+version, use=vt220+cvis,
- use=xterm+256color2, use=xterm+alt1049,
+ use=xterm+256color2,
 use=xterm+alt+title,
 use=xterm+focus, use=xterm+pcc2, use=xterm+pce2,
 use=xterm+pcf2, use=xterm+sl-alt, use=xterm+sm+1006,
 use=xterm+tmux,
@@ -27644,4 +27655,8 @@
# 2024-09-07
# + update comments -TD
#
+# 2024-10-05
+# + use xterm+alt+title in wezterm -TD
+# + update comments -TD
+#
######## SHANTIH!  SHANTIH!  SHANTIH!
Index: ncurses/base/lib_screen.c
Prereq:  1.108
--- ncurses-6.5-20240928+/ncurses/base/lib_screen.c 2024-09-22 20:20:36.000000000 +0000
+++ ncurses-6.5-20241006/ncurses/base/lib_screen.c 2024-10-05 20:47:44.000000000 +0000
@@ -42,7 +42,7 @@
#define CUR SP_TERMTYPE
#endif

-MODULE_ID("$Id: lib_screen.c,v 1.108 2024/09/22 20:20:36 tom Exp $")
+MODULE_ID("$Id: lib_screen.c,v 1.109 2024/10/05 20:47:44 tom Exp $")

#define MAX_SIZE 0x3fff  /* 16k is big enough for a window or pad */

@@ -943,7 +943,7 @@
 * Replace a window covering the whole screen, i.e., newscr or curscr.
 */
```

```
static WINDOW *
-replace_window(WINDOW *target, FILE *source)
+replace_window(const
 WINDOW *target, FILE *source)
{
   WINDOW *result = getwin(source);
#if NCURSES_EXT_FUNCS
Index: ncurses/base/new_pair.c
Prereq:  1.24
--- ncurses-6.5-20240928+/ncurses/base/new_pair.c 2024-07-27 19:22:23.000000000 +0000
+++ ncurses-6.5-20241006/ncurses/base/new_pair.c 2024-10-05 20:51:29.000000000 +0000
@@ -61,7 +61,7 @@

#endif

-MODULE_ID("$Id: new_pair.c,v 1.24 2024/07/27 19:22:23 tom Exp $")
+MODULE_ID("$Id: new_pair.c,v 1.25 2024/10/05 20:51:29 tom Exp $")

#if NCURSES_EXT_COLORS

@@ -193,7 +193,7 @@
 * pair table.
 */
NCURSES_EXPORT(void)
-_nc_reset_color_pair(SCREEN *sp, int pair, colorpair_t * next)
+_nc_reset_color_pair(SCREEN *sp, int pair, const colorpair_t * next)
{
   colorpair_t *last;

Index: ncurses/curses.priv.h
Prereq:  1.691
--- ncurses-6.5-20240928+/ncurses/curses.priv.h 2024-09-28 15:35:01.000000000 +0000
+++ ncurses-6.5-20241006/ncurses/curses.priv.h 2024-10-05 21:01:50.000000000 +0000
@@ -35,7 +35,7 @@
 ******************************************************************************/

/*
- * $Id: curses.priv.h,v 1.691 2024/09/28 15:35:01 tom Exp $
+ * $Id: curses.priv.h,v 1.692 2024/10/05 21:01:50 tom Exp $
 *
 * curses.priv.h
 *
@@ -2170,7 +2170,7 @@
extern NCURSES_EXPORT(int) _nc_read_termcap_entry (const char *const, TERMTYPE2 *const);
extern NCURSES_EXPORT(int) _nc_setup_tinfo(const char *, TERMTYPE2 *);
extern NCURSES_EXPORT(int) _nc_setupscreen (int, int, FILE *, int, int);
-extern NCURSES_EXPORT(int) _nc_timed_wait (SCREEN *, int, int, int * EVENTLIST_2nd(_nc_eventlist *));
+extern NCURSES_EXPORT(int) _nc_timed_wait (const SCREEN *, int, int, int *
```

```
EVENTLIST_2nd(_nc_eventlist *));
extern NCURSES_EXPORT(int) _nc_trans_string (char *, const char *);
extern NCURSES_EXPORT(void) _nc_init_termtype (TERMTYPE2 *const);
extern NCURSES_EXPORT(void) _nc_do_color (int, int, int, NCURSES_OUTC);
Index: ncurses/new_pair.h
Prereq:  1.14
--- ncurses-6.5-20240928+/ncurses/new_pair.h 2024-05-25 23:10:33.000000000 +0000
+++
 ncurses-6.5-20241006/ncurses/new_pair.h 2024-10-05 20:57:47.000000000 +0000
@@ -34,7 +34,7 @@
/*
 * Common type definitions and macros for new_pair.c, lib_color.c
 *
- * $Id: new_pair.h,v 1.14 2024/05/25 23:10:33 tom Exp $
+ * $Id: new_pair.h,v 1.15 2024/10/05 20:57:47 tom Exp $
 */

#ifndef NEW_PAIR_H
@@ -116,7 +116,7 @@
#if NCURSES_EXT_FUNCS && NCURSES_EXT_COLORS
extern NCURSES_EXPORT(void)     _nc_copy_pairs(SCREEN*, colorpair_t*, colorpair_t*, int);
extern NCURSES_EXPORT(void)     _nc_free_ordered_pairs(SCREEN*);
-extern NCURSES_EXPORT(void)     _nc_reset_color_pair(SCREEN*, int, colorpair_t*);
+extern NCURSES_EXPORT(void)     _nc_reset_color_pair(SCREEN*, int, const colorpair_t*);
extern NCURSES_EXPORT(void)     _nc_set_color_pair(SCREEN*, int, int);
#else
#define _nc_free_ordered_pairs(sp) /* nothing */
Index: ncurses/tinfo/trim_sgr0.c
Prereq:  1.23
--- ncurses-6.5-20240928+/ncurses/tinfo/trim_sgr0.c 2024-07-27 19:22:23.000000000 +0000
+++ ncurses-6.5-20241006/ncurses/tinfo/trim_sgr0.c 2024-10-05
 20:53:48.000000000 +0000
@@ -37,7 +37,7 @@

#include <tic.h>

-MODULE_ID("$Id: trim_sgr0.c,v 1.23 2024/07/27 19:22:23 tom Exp $")
+MODULE_ID("$Id: trim_sgr0.c,v 1.24 2024/10/05 20:53:48 tom Exp $")

#undef CUR
#define CUR tp->
@@ -237,12 +237,10 @@

    if (PRESENT(exit_attribute_mode)
 && PRESENT(set_attributes)) {
- bool found = FALSE;
 char *on = set_attribute_9(tp, 1);
 char *off = set_attribute_9(tp, 0);
```

```
 char *end = strdup(exit_attribute_mode);
 char *tmp;
- size_t i, j, k;

 TR(TRACE_DATABASE, ("checking if we can trim sgr0 based on sgr"));
 TR(TRACE_DATABASE, ("sgr0       %s", _nc_visbuf(end)));
@@ -255,6 +253,9 @@
    FreeIfNeeded(off);
 } else if (similar_sgr(off, end)
    && !similar_sgr(off, on)) {
+    bool found = FALSE;
+    size_t i, j, k;
+
    TR(TRACE_DATABASE, ("adjusting sgr(9:off) : %s", _nc_visbuf(off)));
    result = off;
    /*
Index: ncurses/tty/lib_twait.c
Prereq:  1.81
--- ncurses-6.5-20240928+/ncurses/tty/lib_twait.c 2023-09-16
 16:30:40.000000000 +0000
+++ ncurses-6.5-20241006/ncurses/tty/lib_twait.c 2024-10-05 22:47:12.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2018-2020,2023 Thomas E. Dickey                                  *
+ * Copyright 2018-2023,2024 Thomas E. Dickey                                  *
 * Copyright 1998-2015,2016 Free Software Foundation, Inc.                    *
 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -76,7 +76,7 @@
#endif
#undef CUR

-MODULE_ID("$Id: lib_twait.c,v 1.81 2023/09/16 16:30:40 tom Exp $")
+MODULE_ID("$Id: lib_twait.c,v 1.82 2024/10/05 22:47:12 tom Exp $")

/*
 * Returns an elapsed time, in milliseconds (if possible).
@@ -168,7 +168,7 @@
 * descriptors.
 */
NCURSES_EXPORT(int)
-_nc_timed_wait(SCREEN *sp MAYBE_UNUSED,
+_nc_timed_wait(const
 SCREEN *sp MAYBE_UNUSED,
        int mode MAYBE_UNUSED,
        int milliseconds,
        int *timeleft
Index: package/debian-mingw/changelog
```

```
--- ncurses-6.5-20240928+/package/debian-mingw/changelog 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/debian-mingw/changelog 2024-10-06 08:53:45.000000000 +0000
@@ -1,8 +1,8 @@
-ncurses6td (6.5+20240928) unstable; urgency=low
+ncurses6td (6.5+20241006) unstable; urgency=low

  * latest weekly patch

- -- Thomas E. Dickey <dickey@invisible-island.net>  Sat, 28 Sep 2024 05:53:21 -0400
+ -- Thomas E. Dickey <dickey@invisible-island.net>  Sun, 06 Oct 2024 04:53:45 -0400

ncurses6 (5.9+20131005) unstable; urgency=low

Index: package/debian-mingw64/changelog
--- ncurses-6.5-20240928+/package/debian-mingw64/changelog 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/debian-mingw64/changelog 2024-10-06 08:53:45.000000000 +0000
@@ -1,8 +1,8 @@
-ncurses6td (6.5+20240928) unstable; urgency=low
+ncurses6td
 (6.5+20241006) unstable; urgency=low

  * latest weekly patch

- -- Thomas E. Dickey <dickey@invisible-island.net>  Sat, 28 Sep 2024 05:53:21 -0400
+ -- Thomas E. Dickey <dickey@invisible-island.net>  Sun, 06 Oct 2024 04:53:45 -0400

ncurses6 (5.9+20131005) unstable; urgency=low

Index: package/debian/changelog
--- ncurses-6.5-20240928+/package/debian/changelog 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/debian/changelog 2024-10-06 08:53:45.000000000 +0000
@@ -1,8 +1,8 @@
-ncurses6td (6.5+20240928) unstable; urgency=low
+ncurses6td (6.5+20241006) unstable; urgency=low

  * latest weekly patch

- -- Thomas E. Dickey <dickey@invisible-island.net>  Sat, 28 Sep 2024 05:53:21 -0400
+ -- Thomas E. Dickey <dickey@invisible-island.net>  Sun, 06 Oct 2024 04:53:45 -0400

ncurses6 (5.9+20120608) unstable; urgency=low

Index: package/mingw-ncurses.nsi
Prereq:  1.669
--- ncurses-6.5-20240928+/package/mingw-ncurses.nsi 2024-09-28 09:53:21.000000000 +0000
+++
 ncurses-6.5-20241006/package/mingw-ncurses.nsi 2024-10-06 08:53:45.000000000 +0000
@@ -1,4 +1,4 @@
```

```
-; $Id: mingw-ncurses.nsi,v 1.669 2024/09/28 09:53:21 tom Exp $
+; $Id: mingw-ncurses.nsi,v 1.671 2024/10/06 08:53:45 tom Exp $

; TODO add examples
; TODO bump ABI to 6
@@ -10,7 +10,7 @@
!define VERSION_MAJOR "6"
!define VERSION_MINOR "5"
!define VERSION_YYYY  "2024"
-!define VERSION_MMDD  "0928"
+!define VERSION_MMDD  "1006"
!define VERSION_PATCH ${VERSION_YYYY}${VERSION_MMDD}

!define MY_ABI   "5"
Index: package/mingw-ncurses.spec
--- ncurses-6.5-20240928+/package/mingw-ncurses.spec 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/mingw-ncurses.spec 2024-10-06 08:53:45.000000000 +0000
@@ -3,7 +3,7 @@
Summary: shared libraries for terminal handling
Name: mingw32-ncurses6
Version: 6.5
-Release: 20240928
+Release: 20241006
License: X11
Group: Development/Libraries
URL: https://invisible-island.net/ncurses/
Index: package/ncurses.spec
--- ncurses-6.5-20240928+/package/ncurses.spec 2024-09-28
 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/ncurses.spec 2024-10-06 08:53:45.000000000 +0000
@@ -1,7 +1,7 @@
Summary: shared libraries for terminal handling
Name: ncurses6
Version: 6.5
-Release: 20240928
+Release: 20241006
License: X11
Group: Development/Libraries
URL: https://invisible-island.net/ncurses/
Index: package/ncursest.spec
--- ncurses-6.5-20240928+/package/ncursest.spec 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/ncursest.spec 2024-10-06 08:53:45.000000000 +0000
@@ -1,7 +1,7 @@
Summary: Curses library with POSIX thread support.
Name: ncursest6
Version: 6.5
-Release: 20240928
+Release: 20241006
```

```
License: X11
Group: Development/Libraries
Source: ncurses-%{version}-%{release}.tgz
Index: test/blue.c
Prereq:  1.55
--- ncurses-6.5-20240928+/test/blue.c 2022-12-10 23:31:31.000000000 +0000
+++ ncurses-6.5-20241006/test/blue.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
-
 * Copyright 2019-2021,2022 Thomas E. Dickey                                  *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                  *
 * Copyright 1998-2016,2017 Free Software Foundation, Inc.                    *
 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -37,7 +37,7 @@
 ******************************************************************************/

/*
- * $Id: blue.c,v 1.55 2022/12/10 23:31:31 tom Exp $
+ * $Id: blue.c,v 1.56 2024/10/05 19:26:24 tom Exp $
 */

#include <test.priv.h>
@@ -437,7 +437,7 @@
static void
use_pc_display(void)
{
-    char *check = nl_langinfo(CODESET);
+    const char *check = nl_langinfo(CODESET);
    if (!strcmp(check, "UTF-8")) {
#if USE_WIDEC_SUPPORT
 suits = uglyphs;
@@ -448,8 +448,8 @@
     !strcmp(check, "CP437") ||
     !strcmp(check,
 "IBM850") ||
     !strcmp(check, "CP850")) {
-     char *smacs = tigetstr("smacs");
-     char *smpch = tigetstr("smpch");
+     const char *smacs = tigetstr("smacs");
+     const char *smpch = tigetstr("smpch");
     /*
      * The ncurses library makes this check to decide whether to allow
      * the alternate character set for the (normally) nonprinting codes.
Index: test/bs.c
Prereq:  1.79
--- ncurses-6.5-20240928+/test/bs.c 2023-05-27 20:13:10.000000000 +0000
```

```
+++ ncurses-6.5-20241006/test/bs.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2018-2022,2023 Thomas E. Dickey                                  *
+ * Copyright 2018-2023,2024 Thomas E. Dickey                                  *
 * Copyright 1998-2016,2017 Free Software Foundation, Inc.                    *
 *                                                                            *
 * Permission is hereby granted, free of charge,
 to any person obtaining a  *
@@ -35,7 +35,7 @@
 * v2.0 featuring strict ANSI/POSIX conformance, November 1993.
 * v2.1 with ncurses mouse support, September 1995
 *
- * $Id: bs.c,v 1.79 2023/05/27 20:13:10 tom Exp $
+ * $Id: bs.c,v 1.80 2024/10/05 19:26:24 tom Exp $
 */

#include <test.priv.h>
@@ -147,7 +147,7 @@
   bool placed;  /* has it been placed on the board? */
} ship_t;

-static bool checkplace(int b, ship_t * ss, int vis);
+static bool checkplace(int b, const ship_t * ss, int vis);

#define SHIPIT(name, symbol, length) { name, 0, symbol, length, 0,0, 0, FALSE }

@@ -686,7 +686,7 @@
}

static bool
-checkplace(int b, ship_t * ss, int vis)
+checkplace(int b, const ship_t * ss, int vis)
{
   int l, xend, yend;

Index: test/cardfile.c
Prereq:  1.51
--- ncurses-6.5-20240928+/test/cardfile.c 2022-12-04 00:40:11.000000000 +0000
+++ ncurses-6.5-20241006/test/cardfile.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
-
 * Copyright 2019-2021,2022 Thomas E. Dickey                                  *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                  *
 * Copyright 1999-2016,2017 Free Software Foundation, Inc.                    *
 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
```

```
@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey
 *
- * $Id: cardfile.c,v 1.51 2022/12/04 00:40:11 tom Exp $
+ * $Id: cardfile.c,v 1.52 2024/10/05 19:26:24 tom Exp $
 *
 * File format: text beginning in column 1 is a title; other text is content.
 */
@@ -161,7 +161,7 @@
}

static CARD *
-find_card(char *title)
+find_card(const char *title)
{
   CARD *card;

@@ -173,7 +173,7 @@
}

static void
-read_data(char *fname)
+read_data(const char *fname)
{
   FILE *fp;

@@ -341,7 +341,7 @@
}

static FIELD **
-make_fields(CARD * p, int form_high,
 int form_wide)
+make_fields(const CARD * p, int form_high, int form_wide)
{
   FIELD **f = typeCalloc(FIELD *, (size_t) 3);

@@ -385,7 +385,7 @@
/*******************************************************************************/

static void
-cardfile(char *fname)
+cardfile(const char *fname)
{
   WINDOW *win;
   CARD *p;
Index: test/chgat.c
Prereq:  1.21
```

```
--- ncurses-6.5-20240928+/test/chgat.c 2024-06-29 17:45:32.000000000 +0000
+++ ncurses-6.5-20241006/test/chgat.c 2024-10-06 22:35:55.000000000 +0000
@@ -27,7 +27,7 @@
 * authorization.                                       *
 ****************************************************************************/
/*
- * $Id: chgat.c,v 1.21 2024/06/29 17:45:32 tom Exp $
+ * $Id: chgat.c,v 1.23 2024/10/06 22:35:55 tom Exp $
 *
 * test-driver for chgat/wchgat/mvchgat/mvwchgat
 */
@@ -160,7 +160,7 @@
}

static void
-do_subwindow(WINDOW *win, STATUS * sp, void func(WINDOW *))
+do_subwindow(WINDOW *win, const STATUS
 * sp, void func(WINDOW *))
{
   WINDOW *win1 = newwin(sp->y_max - 2, sp->x_max - 2,
    sp->y_beg + 1, sp->x_beg + 1);
@@ -204,7 +204,7 @@
static void
show_help(WINDOW *win)
{
-   static const char *msgs[] =
+   static NCURSES_CONST char *msgs[] =
   {
 "Basic commands:"
 ,"Use h/j/k/l or arrow keys to move the cursor."
Index: test/clip_printw.c
Prereq:  1.23
--- ncurses-6.5-20240928+/test/clip_printw.c 2023-09-30 19:57:44.000000000 +0000
+++ ncurses-6.5-20241006/test/clip_printw.c 2024-10-06 22:36:25.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2019-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2019-2023,2024 Thomas E. Dickey                                *
 * Copyright 2008-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge,
 to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                       *
 ****************************************************************************/
/*
- * $Id: clip_printw.c,v 1.23 2023/09/30 19:57:44 tom Exp $
+ * $Id: clip_printw.c,v 1.25 2024/10/06 22:36:25 tom Exp $
```

```
 *
 * demonstrate how to use printw with/without wrapping.
 */
@@ -212,7 +212,7 @@
}

static void
-do_subwindow(WINDOW *win, STATUS * sp, void func(WINDOW *))
+do_subwindow(WINDOW *win, const STATUS * sp, void func(WINDOW *))
{
   WINDOW *win1 = newwin(sp->y_max - (2 * MARGIN),
    sp->x_max - (2 * MARGIN),
@@ -268,7 +268,7 @@
static void
show_help(WINDOW *win)
{
-   static const char *msgs[] =
+   static NCURSES_CONST char *msgs[] =
   {
 "Basic commands:"
 ,"Use h/j/k/l or arrow keys to move the cursor."
Index: test/color_name.h
Prereq:  1.9
--- ncurses-6.5-20240928+/test/color_name.h 2021-04-24 23:25:29.000000000 +0000
+++ ncurses-6.5-20241006/test/color_name.h 2024-10-05
 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2018-2020,2021 Thomas E. Dickey                                  *
+ * Copyright 2018-2021,2024 Thomas E. Dickey                                  *
 * Copyright 2011-2012,2016 Free Software Foundation, Inc.                    *
 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                             *
 ******************************************************************************/
/*
- * $Id: color_name.h,v 1.9 2021/04/24 23:25:29 tom Exp $
+ * $Id: color_name.h,v 1.10 2024/10/05 19:26:24 tom Exp $
 */

#ifndef __COLORNAME_H
@@ -63,7 +63,6 @@
{
   int result = 0;
   char *endp = 0;
-   size_t n;
```

```
    if ((result = (int) strtol(color,
 &endp, 0)) >= 0
 && (endp == 0 || *endp == 0)) {
@@ -71,6 +70,7 @@
    } else if (!strcmp(color, "default")) {
 result = -1;
    } else {
+ size_t n;
 for (n = 0; n < SIZEOF(the_color_names); ++n) {
     if (!strcmp(the_color_names[n], color)) {
  result = (int) n;
Index: test/demo_defkey.c
Prereq:  1.35
--- ncurses-6.5-20240928+/test/demo_defkey.c 2024-01-20 20:46:12.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_defkey.c 2024-10-05 18:20:04.000000000 +0000
@@ -27,7 +27,7 @@
 * authorization.                                               *
 ******************************************************************************/
/*
- * $Id: demo_defkey.c,v 1.35 2024/01/20 20:46:12 tom Exp $
+ * $Id: demo_defkey.c,v 1.36 2024/10/05 18:20:04 tom Exp $
 *
 * Demonstrate the define_key() function.
 * Thomas Dickey - 2002/11/23
@@ -199,7 +199,7 @@
}

static void
-redefine(WINDOW *win, char *string, int code)
+redefine(WINDOW *win, const char *string, int code)
{

   really_define_key(win, string, code);
}
Index: test/demo_forms.c
Prereq:  1.63
--- ncurses-6.5-20240928+/test/demo_forms.c 2023-11-11 00:29:53.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_forms.c 2024-10-06 21:15:12.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2018-2022,2023 Thomas E. Dickey                                  *
+ * Copyright 2018-2023,2024 Thomas E. Dickey                                  *
 * Copyright 2003-2016,2017 Free Software Foundation, Inc.                    *
 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                               *
 ******************************************************************************/
```

```
/*
- * $Id: demo_forms.c,v 1.63 2023/11/11 00:29:53 tom Exp $
+ * $Id: demo_forms.c,v 1.67
 2024/10/06 21:15:12 tom Exp $
 *
 * Demonstrate a variety of functions from the form library.
 * Thomas Dickey - 2003/4/26
@@ -148,7 +148,7 @@
}

static FIELD *
-make_label(const char *label, int frow, int fcol)
+make_label(NCURSES_CONST char *label, int frow, int fcol)
{
   FIELD *f = new_field(1, (int) strlen(label), frow, fcol, 0, 0);

@@ -242,7 +242,7 @@
#define O_SELECTABLE (O_ACTIVE | O_VISIBLE)

static FIELD *
-another_field(FORM *form, const FIELD *const field)
+another_field(NCURSES_CONST FORM *form, NCURSES_CONST FIELD *const field)
{
   FIELD **f = form_fields(form);
   FIELD *result = 0;
@@ -306,9 +306,9 @@
}

static void
-show_current_field(WINDOW *win, FORM *form)
+show_current_field(WINDOW *win, NCURSES_CONST FORM *form)
{
-    FIELD *field;
+    NCURSES_CONST FIELD *field;
   int field_rows, field_cols, field_max;
   int currow, curcol;

@@ -325,7 +325,7 @@
   waddch(win, '\n');

   if ((field = current_field(form)) != 0) {
- FIELDTYPE *type;
+ NCURSES_CONST
 FIELDTYPE *type;
 int nbuf;

 wprintw(win, "Page %d%s, Field %d/%d%s:",
@@ -383,7 +383,7 @@
```

```
 waddstr(win, "\n");
 for (nbuf = 0; nbuf <= 2; ++nbuf) {
-     char *buffer;
+     NCURSES_CONST char *buffer;
     if ((buffer = field_buffer(field, nbuf)) != 0) {
  wprintw(win, "buffer %d:", nbuf);
  (void) wattrset(win, A_REVERSE);
@@ -408,8 +408,8 @@
    int c;
    unsigned n = 0;
    int pg;
-    const char *fname;
-    static const char *my_enum[] =
+    NCURSES_CONST char *fname;
+    static NCURSES_CONST char *my_enum[] =
    {"first", "second", "third", 0};

#ifdef NCURSES_MOUSE_VERSION
@@ -515,7 +515,7 @@
    f[n] = (FIELD *) 0;

    if ((form = new_form(f)) != 0) {
- WINDOW *w;
+ NCURSES_CONST WINDOW *w;
 WINDOW *also;
 int finished = 0;

Index: test/demo_menus.c
Prereq:  1.80
--- ncurses-6.5-20240928+/test/demo_menus.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_menus.c 2024-10-06 19:58:28.000000000 +0000
@@ -1,5
 +1,5 @@
/******************************************************************************
- * Copyright 2019-2022,2023 Thomas E. Dickey                                  *
+ * Copyright 2019-2023,2024 Thomas E. Dickey                                  *
 * Copyright 2003-2016,2017 Free Software Foundation, Inc.                    *
 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                             *
 ******************************************************************************/
/*
- * $Id: demo_menus.c,v 1.80 2023/05/27 20:13:10 tom Exp $
+ * $Id: demo_menus.c,v 1.82 2024/10/06 19:58:28 tom Exp $
 *
 * Demonstrate a variety of functions from the menu library.
```

```
 * Thomas Dickey - 2005/4/9
@@ -185,7 +185,7 @@
}

static int
-menu_getc(MENU * m)
+menu_getc(NCURSES_CONST MENU * m)
{
   return wGetchar(menu_win(m));
 }
@@ -214,7 +214,7 @@
my_menu_init(MENU * menu)
{
   Trace(("called MenuHook my_menu_init"));
-   mvwprintw(status, 2, 0, "menu_init %p", (void *) menu);
+   mvwprintw(status, 2, 0, "menu_init %p", (const void *) menu);
   wclrtoeol(status);
   wrefresh(status);
}
@@ -223,7 +223,7 @@
my_menu_term(MENU * menu)
{
   Trace(("called MenuHook my_menu_term"));
-   mvwprintw(status, 2, 0, "menu_term %p", (void *) menu);
+   mvwprintw(status, 2, 0, "menu_term %p", (const void *) menu);
   wclrtoeol(status);
   wrefresh(status);
}
@@ -231,7 +231,7 @@
static void
my_item_init(MENU * menu)
{
-   ITEM *item = current_item(menu);
+   NCURSES_CONST ITEM *item = current_item(menu);
   const char *name = item_name(item);

   Trace(("called MenuHook my_item_init (%s)", name));
@@ -243,7 +243,7 @@
static void
my_item_term(MENU * menu)
{
-   ITEM *item = current_item(menu);
+   NCURSES_CONST ITEM *item = current_item(menu);
   const char *name = item_name(item);

   Trace(("called MenuHook my_item_term (%s)", name));
@@ -348,7 +348,7 @@
```

```
/* force the given menu to appear */
static void
-menu_display(MENU * m)
+menu_display(NCURSES_CONST MENU * m)
{
    touchwin(menu_win(m));
    wrefresh(menu_win(m));
@@ -584,10 +584,10 @@
 * the others
 */
static bool
-update_trace_menu(MENU * m)
+update_trace_menu(NCURSES_CONST MENU * m)
{
    ITEM **items;
-    ITEM *i;
+    NCURSES_CONST ITEM *i;
    bool changed = FALSE;

    items = menu_items(m);
@@ -613,7 +613,7 @@
    int result;

    for (ip = menu_items(mpTrace); *ip; ip++) {
- MENU_DATA *td = (MENU_DATA *) item_userptr(*ip);
+ NCURSES_CONST MENU_DATA *td = (MENU_DATA *) item_userptr(*ip);
 unsigned mask = td->mask;
 if (mask == 0)
     set_item_value(*ip, _nc_tracing == 0);
@@ -628,7 +628,7 @@
     unsigned newtrace = 0;
     for (ip = menu_items(mpTrace); *ip; ip++) {
  if (item_value(*ip)) {
-      MENU_DATA *td = (MENU_DATA *) item_userptr(*ip);
+      NCURSES_CONST
 MENU_DATA *td = (MENU_DATA *) item_userptr(*ip);
      newtrace |= td->mask;
  }
     }
@@ -718,7 +718,9 @@
}

static int
-move_menu(MENU * menu, MENU * current, int by_y, int by_x)
+move_menu(NCURSES_CONST MENU * menu,
+   NCURSES_CONST MENU * current,
+   int by_y, int by_x)
{
```

```
   WINDOW *top_win = menu_win(menu);
   WINDOW *sub_win = menu_sub(menu);
@@ -798,7 +800,7 @@
#endif /* defined(KEY_RESIZE) && NCURSES_EXT_FUNCS */

static void
-show_status(int ch, MENU * menu)
+show_status(int ch, NCURSES_CONST MENU * menu)
{
   wmove(status, 0, 0);
   wprintw(status, "key %s, menu %d, mark %s, match %s",
@@ -919,7 +921,7 @@
 wrefresh(menu_win(last_menu));
 if (code == E_UNKNOWN_COMMAND
    || code == E_NOT_POSTED) {
-    ITEM *item = current_item(last_menu);
+    NCURSES_CONST ITEM *item = current_item(last_menu);
    MENU_DATA *td = (MENU_DATA *) item_userptr(item);
    td->func((int) td->mask);
 }
Index: test/demo_new_pair.c
Prereq:  1.28
--- ncurses-6.5-20240928+/test/demo_new_pair.c 2024-06-29
 19:30:26.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_new_pair.c 2024-10-05 18:21:44.000000000 +0000
@@ -27,7 +27,7 @@
 * authorization.                                           *
 ****************************************************************************/
/*
- * $Id: demo_new_pair.c,v 1.28 2024/06/29 19:30:26 tom Exp $
+ * $Id: demo_new_pair.c,v 1.29 2024/10/05 18:21:44 tom Exp $
 *
 * Demonstrate the alloc_pair() function.
 */
@@ -49,7 +49,7 @@
static bool
valid_cap(NCURSES_CONST char *name)
{
-   char *value = tigetstr(name);
+   const char *value = tigetstr(name);
   return (value != 0 && value != (char *) -1) ? TRUE : FALSE;
}

Index: test/demo_panels.c
Prereq:  1.48
--- ncurses-6.5-20240928+/test/demo_panels.c 2022-12-04 00:40:11.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_panels.c 2024-10-06 20:01:21.000000000 +0000
@@ -1,5 +1,5 @@
```

```
/******************************************************************************
-
 * Copyright 2018-2020,2022 Thomas E. Dickey                                  *
+ * Copyright 2018-2022,2024 Thomas E. Dickey                                  *
 * Copyright 2003-2016,2017 Free Software Foundation, Inc.                    *
 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                             *
 ******************************************************************************/
/*
- * $Id: demo_panels.c,v 1.48 2022/12/04 00:40:11 tom Exp $
+ * $Id: demo_panels.c,v 1.50 2024/10/06 20:01:21 tom Exp $
 *
 * Demonstrate a variety of functions from the panel library.
 */
@@ -42,7 +42,7 @@
#define TEMP_POS '>'

typedef void (*InitPanel) (void);
-typedef void (*FillPanel) (PANEL *);
+typedef void (*FillPanel) (NCURSES_CONST PANEL *);

static bool use_colors = FALSE;
static bool
 unboxed = FALSE;
@@ -301,7 +301,7 @@
 int code;
 int y0, x0;
 int y1, x1;
- WINDOW *win = panel_window(pans[which]);
+ NCURSES_CONST WINDOW *win = panel_window(pans[which]);
 char also[80];

 getbegyx(win, y0, x0);
@@ -368,7 +368,7 @@
}

static void
-fill_panel(PANEL *pan)
+fill_panel(NCURSES_CONST PANEL *pan)
{
   WINDOW *win = panel_window(pan);
   const char *userptr = (const char *) panel_userptr(pan);
@@ -388,7 +388,7 @@
}

static void
```

```
-fill_unboxed(PANEL *pan)
+fill_unboxed(NCURSES_CONST PANEL *pan)
{
   WINDOW *win = panel_window(pan);
   const char *userptr = (const char *) panel_userptr(pan);
@@ -431,7 +431,7 @@
}

static void
-fill_wide_panel(PANEL *pan)
+fill_wide_panel(NCURSES_CONST PANEL *pan)
{
   WINDOW *win = panel_window(pan);
   int num = ((const char *) panel_userptr(pan))[1];
@@ -453,7 +453,7 @@
#define MAX_PANELS 5

static int
-which_panel(PANEL *px[MAX_PANELS + 1], PANEL *pan)
+which_panel(PANEL *px[MAX_PANELS + 1], NCURSES_CONST
 PANEL *pan)
{
   int result = 0;
   int j;
Index: test/demo_termcap.c
Prereq:  1.65
--- ncurses-6.5-20240928+/test/demo_termcap.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_termcap.c 2024-10-06 20:05:09.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2019-2022,2023 Thomas E. Dickey                                  *
+ * Copyright 2019-2023,2024 Thomas E. Dickey                                  *
 * Copyright 2005-2016,2017 Free Software Foundation, Inc.                    *
 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey
 *
- * $Id: demo_termcap.c,v 1.65 2023/05/27 20:13:10 tom Exp $
+ * $Id: demo_termcap.c,v 1.70 2024/10/06 20:05:09 tom Exp $
 *
 * A simple demo of the termcap interface.
 */
@@ -256,7 +256,7 @@

   * to hold all of the strings extracted from the terminal entry.
    */
```

```
   char area[1024], *ap = area;
-   char *str;
+   NCURSES_CONST char *str;
   int num;

   if ((str = tgetstr(cap, &ap)) != 0) {
@@ -289,7 +289,7 @@
}

static void
-brute_force(const char *name)
+brute_force(NCURSES_CONST char *name)
{
   char buffer[1024];

@@ -369,7 +369,7 @@
#ifdef NCURSES_VERSION
 if (x_opt && (my_blob == 0) && y_opt) {
#if NCURSES_XNAMES
-    TERMTYPE *term = (TERMTYPE *) cur_term;
+    NCURSES_CONST TERMTYPE *term = (TERMTYPE *) cur_term;
    if (term != 0
  && ((NUM_BOOLEANS(term) != BOOLCOUNT)
     || (NUM_NUMBERS(term) != NUMCOUNT)
@@ -781,12 +781,12 @@
{
   int ch;
   int n;
-   char *name;
+   NCURSES_CONST char *name;
   bool a_opt = FALSE;
#if defined(NCURSES_VERSION) || defined(HAVE_CURSES_DATA_OSPEED)
   bool v_opt = FALSE;
#endif
-   char *input_name = 0;
+   NCURSES_CONST char *input_name = 0;

   int repeat;
   int r_opt = 1;
@@ -867,7
 +867,7 @@
    } else if ((name = getenv("TERM")) != 0) {
  brute_force(name);
    } else {
-  static char dumb[] = "dumb";
+  static NCURSES_CONST char dumb[] = "dumb";
  brute_force(dumb);
    }
```

```
 }
@@ -894,7 +894,7 @@
     } else if ((name = getenv("TERM")) != 0) {
  demo_termcap(name);
     } else {
-  static char dumb[] = "dumb";
+  static NCURSES_CONST char dumb[] = "dumb";
  demo_termcap(dumb);
     }
 }
Index: test/demo_terminfo.c
Prereq:  1.57
--- ncurses-6.5-20240928+/test/demo_terminfo.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_terminfo.c 2024-10-06 21:16:43.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2019-2022,2023 Thomas E. Dickey                                  *
+ * Copyright 2019-2023,2024 Thomas E. Dickey                                  *
 * Copyright 2009-2016,2017 Free Software Foundation, Inc.                    *
 *                                                                            *
                                                                              *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey
 *
- * $Id: demo_terminfo.c,v 1.57 2023/05/27 20:13:10 tom Exp $
+ * $Id: demo_terminfo.c,v 1.59 2024/10/06 21:16:43 tom Exp $
 *
 * A simple demo of the terminfo interface.
 */
@@ -253,7 +253,7 @@
#define LegalItem(c,n) (n)

static void
-brute_force(const char *name)
+brute_force(NCURSES_CONST char *name)
{
#define MAX_FORCE 5  /* omit "colors", since CPU-time is a problem */
   static const char legal[] = "\
@@ -324,7 +324,7 @@
#endif

static void
-demo_terminfo(char *name)
+demo_terminfo(NCURSES_CONST char *name)
{
   unsigned n;
```

```
   NCURSES_CONST char *cap;
@@ -366,7 +366,7 @@
   if (x_opt && (my_blob == 0)) {
 if (y_opt) {
#if NCURSES_XNAMES
-     TERMTYPE *term = (TERMTYPE *) cur_term;
+     const TERMTYPE *term = (TERMTYPE *) cur_term;
     if (term != 0
  && ((NUM_BOOLEANS(term)
 != BOOLCOUNT)
      || (NUM_NUMBERS(term) != NUMCOUNT)
@@ -813,9 +813,9 @@
   int ch;
   int n;
   int repeat;
-    char *name;
+    NCURSES_CONST char *name;
   int r_opt = 1;
-    char *input_name = 0;
+    const char *input_name = 0;

   while ((ch = getopt(argc, argv, OPTS_COMMON "abd:e:fi:nqr:sxy")) != -1) {
 switch (ch) {
@@ -891,7 +891,7 @@
     } else if ((name = getenv("TERM")) != 0) {
  brute_force(name);
     } else {
-  static char dumb[] = "dumb";
+  static NCURSES_CONST char dumb[] = "dumb";
  brute_force(dumb);
     }
 }
@@ -918,7 +918,7 @@
     } else if ((name = getenv("TERM")) != 0) {
  demo_terminfo(name);
     } else {
-  static char dumb[] = "dumb";
+  static NCURSES_CONST char dumb[] = "dumb";
  demo_terminfo(dumb);
     }
 }
Index: test/dots.c
Prereq:  1.45
--- ncurses-6.5-20240928+/test/dots.c 2023-01-07 17:21:48.000000000 +0000
+++ ncurses-6.5-20241006/test/dots.c 2024-10-06 21:17:54.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
-
```

```
 * Copyright 2019-2022,2023 Thomas E. Dickey                          *
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 *                                                                      *
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@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey <dickey@clark.net> 1999
 *
- * $Id: dots.c,v 1.45 2023/01/07 17:21:48 tom Exp $
+ * $Id: dots.c,v 1.46 2024/10/06 21:17:54 tom Exp $
 *
 * A simple demo of the terminfo interface.
 */
@@ -61,7 +61,7 @@
}

static bool
-outs(const char *s)
+outs(NCURSES_CONST char *s)
{
   if (VALID_STRING(s)) {
 tputs(s, 1, outc);
Index: test/dots_mvcur.c
Prereq:  1.31
--- ncurses-6.5-20240928+/test/dots_mvcur.c 2023-01-07 17:21:48.000000000 +0000
+++ ncurses-6.5-20241006/test/dots_mvcur.c 2024-10-06
 21:17:54.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
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 *                                                                      *
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@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey - 2007
 *
- * $Id: dots_mvcur.c,v 1.31 2023/01/07 17:21:48 tom Exp $
+ * $Id: dots_mvcur.c,v 1.32 2024/10/06 21:17:54 tom Exp $
 *
 * A simple demo of the terminfo interface, and mvcur.
 */
@@ -62,7 +62,7 @@
}

static bool
```

```
-outs(const char *s)
+outs(NCURSES_CONST char *s)
{
    if (VALID_STRING(s)) {
 tputs(s, 1, outc);
Index: test/dots_termcap.c
Prereq:  1.33
--- ncurses-6.5-20240928+/test/dots_termcap.c 2024-08-31
 15:55:46.000000000 +0000
+++ ncurses-6.5-20241006/test/dots_termcap.c 2024-10-06 21:18:35.000000000 +0000
@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey
 *
- * $Id: dots_termcap.c,v 1.33 2024/08/31 15:55:46 tom Exp $
+ * $Id: dots_termcap.c,v 1.35 2024/10/06 21:18:35 tom Exp $
 *
 * A simple demo of the termcap interface.
 */
@@ -113,7 +113,7 @@
}

static bool
-outs(char *s)
+outs(NCURSES_CONST char *s)
{
    if (VALID_STRING(s)) {
 tputs(s, 1, outc);
@@ -178,7 +178,7 @@
get_number(NCURSES_CONST char *cap, const char *env)
{
    int result = tgetnum(cap);
-    char *value = env ? getenv(env) : 0;
+    const char *value = env ? getenv(env) : 0;
    if (value != 0 && *value != 0) {
 char *next = 0;
 long check = strtol(value, &next, 10);
@@ -229,7 +229,7 @@
    double c;
    char buffer[1024];
    char area[1024];
-    char *name;
+    NCURSES_CONST char *name;
    size_t need;
    char *my_env;

Index: test/dup_field.c
Prereq:  1.9
```

```
--- ncurses-6.5-20240928+/test/dup_field.c 2024-06-29
 17:45:32.000000000 +0000
+++ ncurses-6.5-20241006/test/dup_field.c 2024-10-06 20:07:19.000000000 +0000
@@ -26,7 +26,7 @@
 * authorization.                                       *
 ****************************************************************************/
/*
- * $Id: dup_field.c,v 1.9 2024/06/29 17:45:32 tom Exp $
+ * $Id: dup_field.c,v 1.11 2024/10/06 20:07:19 tom Exp $
 *
 * Demonstrate dup_field().
 */
@@ -146,27 +146,27 @@
}

static FieldAttrs *
-my_field_attrs(FIELD *f)
+my_field_attrs(NCURSES_CONST FIELD *f)
{
   return (FieldAttrs *) field_userptr(f);
}

static int
-buffer_length(FIELD *f)
+buffer_length(NCURSES_CONST FIELD *f)
{
   return my_field_attrs(f)->row_lengths[0];
}

static void
-set_buffer_length(FIELD *f, int length)
+set_buffer_length(NCURSES_CONST FIELD *f, int length)
{
   my_field_attrs(f)->row_lengths[0] = length;
}

static int
-offset_in_field(FORM *form)
+offset_in_field(NCURSES_CONST
 FORM *form)
{
-    FIELD *field = current_field(form);
+    NCURSES_CONST FIELD *field = current_field(form);
   int currow, curcol;

   form_getyx(form, currow, curcol);
@@ -245,7 +245,7 @@
```

```
 default:
     modified = (ch < MIN_FORM_COMMAND
-   && isprint(ch));
+   && isprint(UChar(ch)));
     break;
 }

Index: test/filter.c
Prereq:  1.38
--- ncurses-6.5-20240928+/test/filter.c 2022-12-04 00:40:11.000000000 +0000
+++ ncurses-6.5-20241006/test/filter.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
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 *                                                                            *
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@@
 -30,7 +30,7 @@
/*
 * Author:  Thomas E. Dickey 1998
 *
- * $Id: filter.c,v 1.38 2022/12/04 00:40:11 tom Exp $
+ * $Id: filter.c,v 1.39 2024/10/05 19:26:24 tom Exp $
 *
 * An example of the 'filter()' function in ncurses, this program prompts
 * for commands and executes them (like a command shell).  It illustrates
@@ -65,7 +65,7 @@
    if (clocked) {
 if (limit >= 3) {
     time_t now = time((time_t *) 0);
-     struct tm *my = localtime(&now);
+     const struct tm *my = localtime(&now);
     char buffer[80];
     int skip, y, x;
     int margin;
Index: test/form_driver_w.c
Prereq:  1.17
--- ncurses-6.5-20240928+/test/form_driver_w.c 2022-12-10 23:31:31.000000000 +0000
+++ ncurses-6.5-20241006/test/form_driver_w.c 2024-10-06 23:13:40.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
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                                                                              *
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 *                                                                            *
```

```
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@@ -32,7 +32,7 @@
 ****************************************************************************/

/*
- * $Id: form_driver_w.c,v 1.17 2022/12/10 23:31:31 tom Exp $
+ * $Id: form_driver_w.c,v 1.18 2024/10/06 23:13:40 tom Exp $
 *
 * Test form_driver_w (int, int, wchar_t), a wide char aware
 * replacement of form_driver.
@@ -68,7 +68,7 @@
int
main(int argc, char *argv[])
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
    {
 "Commands:",
 "  ^D,^Q,ESC           - quit program",
Index: test/gdc.c
Prereq:  1.60
--- ncurses-6.5-20240928+/test/gdc.c 2024-06-29 19:59:06.000000000 +0000
+++ ncurses-6.5-20241006/test/gdc.c 2024-10-06 20:08:59.000000000 +0000
@@ -34,7 +34,7 @@
 * modified 10-18-89
 for curses (jrl)
 * 10-18-89 added signal handling
 *
- * $Id: gdc.c,v 1.60 2024/06/29 19:59:06 tom Exp $
+ * $Id: gdc.c,v 1.62 2024/10/06 20:08:59 tom Exp $
 */

#include <test.priv.h>
@@ -181,7 +181,7 @@
    int check;
    time_t result;
    char c = 0;
-    struct tm *tm;
+    NCURSES_CONST struct tm *tm;

    switch (sscanf(value, "%d:%d:%d%c", &hh, &mm, &ss, &c)) {
    default:
@@ -243,7 +243,7 @@
main(int argc, char *argv[])
{
    time_t now;
-    struct tm *tm;
+    NCURSES_CONST struct tm *tm;
```

```
   long t, a;
   int i, j, s, k, ch;
   int count = 0;
@@ -293,7 +293,7 @@

   InitAndCatch({
 if (redirected) {
-     char *name = getenv("TERM");
+     NCURSES_CONST char *name = getenv("TERM");
     if (name == 0
  || newterm(name, ofp, ifp) == 0) {
  fprintf(stderr, "cannot open terminal\n");
@@ -431,7 +431,7 @@
     _nc_STRNCPY(buf, ctime(&now), (size_t) 30);
     {
  char *d2 = buf + 10;
-  char *s2 = buf + 19;
+  NCURSES_CONST char *s2 = buf + 19;
   while ((*d2++ = *s2++) != '\0') ;
     }
     MvAddStr(16, 30, buf);
Index: test/inch_wide.c
Prereq:  1.13
--- ncurses-6.5-20240928+/test/inch_wide.c 2022-12-10 23:55:34.000000000 +0000
+++ ncurses-6.5-20241006/test/inch_wide.c 2024-10-06 23:14:31.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
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 * Copyright 2007-2010,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
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@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: inch_wide.c,v 1.13 2022/12/10 23:55:34 tom Exp $
+
 * $Id: inch_wide.c,v 1.14 2024/10/06 23:14:31 tom Exp $
 */
/*
       int in_wch(cchar_t *wcval);
@@ -61,7 +61,7 @@
static int
test_inchs(int level, char **argv, WINDOW *chrwin, WINDOW *strwin)
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
```

```
    {
 "Test input from screen using inch(), etc., in a moveable viewport.",
 "",
Index: test/inchs.c
Prereq:  1.19
--- ncurses-6.5-20240928+/test/inchs.c 2022-12-11 00:01:39.000000000 +0000
+++ ncurses-6.5-20241006/test/inchs.c 2024-10-06 21:17:54.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2019-2020,2022 Thomas E. Dickey                                *
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 *                                                                          *
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 charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ******************************************************************************/
/*
- * $Id: inchs.c,v 1.19 2022/12/11 00:01:39 tom Exp $
+ * $Id: inchs.c,v 1.20 2024/10/06 21:17:54 tom Exp $
 *
 * Author: Thomas E Dickey
 */
@@ -71,7 +71,7 @@
static int
test_inchs(int level, char **argv, WINDOW *chrwin, WINDOW *strwin)
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
    {
 "Test input from screen using inch(), etc., in a moveable viewport.",
 "",
Index: test/ins_wide.c
Prereq:  1.30
--- ncurses-6.5-20240928+/test/ins_wide.c 2022-12-10 22:28:50.000000000 +0000
+++ ncurses-6.5-20241006/test/ins_wide.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
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 *                                                                          *
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@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ******************************************************************************/
```

```
/*
- * $Id: ins_wide.c,v 1.30 2022/12/10 22:28:50 tom Exp $
+ * $Id: ins_wide.c,v 1.31 2024/10/05 19:26:24 tom Exp $
 *
 * Demonstrate the wins_wstr() and wins_wch functions.
 * Thomas Dickey - 2002/11/23
@@ -73,7 +73,7 @@
static int n_opt = -1;

static void
-legend(WINDOW *win, int level, Options state, wchar_t *buffer, int length)
+legend(WINDOW *win, int level, Options state, const wchar_t *buffer, int length)
{
   const char *showstate;

Index: test/insdelln.c
Prereq:  1.15
--- ncurses-6.5-20240928+/test/insdelln.c 2022-12-10
 23:31:31.000000000 +0000
+++ ncurses-6.5-20241006/test/insdelln.c 2024-10-06 21:08:52.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
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 *                                                                            *
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@@ -27,7 +27,7 @@
 * authorization.                                                             *
 ******************************************************************************/
/*
- * $Id: insdelln.c,v 1.15 2022/12/10 23:31:31 tom Exp $
+ * $Id: insdelln.c,v 1.17 2024/10/06 21:08:52 tom Exp $
 *
 * test-driver for deleteln, wdeleteln, insdelln, winsdelln, insertln, winsertln
  */
@@ -160,7 +160,7 @@
}

static void
-do_subwindow(WINDOW *win, STATUS * sp, void func(WINDOW *))
+do_subwindow(WINDOW *win, const STATUS * sp, void func(WINDOW *))
{
   WINDOW *win1 = newwin(sp->y_max - 2, sp->x_max - 2,
    sp->y_beg + 1, sp->x_beg + 1);
@@ -204,7 +204,7 @@
static void
show_help(WINDOW *win)
```

```
{
-    static const char *table[] =
+    static NCURSES_CONST char *table[] =
    {
 "Basic commands:"
 ,"Use h/j/k/l or arrow keys to move the cursor."
Index: test/inserts.c
Prereq:  1.34
--- ncurses-6.5-20240928+/test/inserts.c 2022-12-10 22:28:50.000000000 +0000
+++ ncurses-6.5-20241006/test/inserts.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
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 * Copyright 2002-2016,2017 Free Software Foundation, Inc.
      *
 *                                                                          *
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@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ******************************************************************************/
/*
- * $Id: inserts.c,v 1.34 2022/12/10 22:28:50 tom Exp $
+ * $Id: inserts.c,v 1.35 2024/10/05 19:26:24 tom Exp $
 *
 * Demonstrate the winsstr() and winsch functions.
 * Thomas Dickey - 2002/10/19
@@ -98,7 +98,7 @@
}

static int
-ColOf(char *buffer, int length, int margin)
+ColOf(const char *buffer, int length, int margin)
{
    int n;
    int result;
Index: test/knight.c
Prereq:  1.52
--- ncurses-6.5-20240928+/test/knight.c 2022-12-04 00:40:11.000000000 +0000
+++ ncurses-6.5-20241006/test/knight.c 2024-10-05 19:38:58.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
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 2018-2021,2022 Thomas E. Dickey                                          *
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 *                                                                          *
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```

```
@@ -34,7 +34,7 @@
 * Eric S. Raymond <esr@snark.thyrsus.com> July 22 1995.  Mouse support
 * added September 20th 1995.
 *
- * $Id: knight.c,v 1.52 2022/12/04 00:40:11 tom Exp $
+ * $Id: knight.c,v 1.53 2024/10/05 19:38:58 tom Exp $
 */

#include <test.priv.h>
@@ -450,7 +450,8 @@
}

static bool
-evaluate_move(SQUARES squares, HISTORY * doneData, int doneSize, int row, int column)
+evaluate_move(SQUARES squares, const HISTORY * doneData, int doneSize,
+       int row, int column)
{
    if (doneSize <= 1)
 return (TRUE);
Index: test/list_keys.c
Prereq:  1.33
--- ncurses-6.5-20240928+/test/list_keys.c 2023-11-11
 00:35:05.000000000 +0000
+++ ncurses-6.5-20241006/test/list_keys.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
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 * Copyright 2016,2017 Free Software Foundation, Inc.                         *
 *                                                                            *
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@@ -27,7 +27,7 @@
 * authorization.                                                             *
 ******************************************************************************/
/*
- * $Id: list_keys.c,v 1.33 2023/11/11 00:35:05 tom Exp $
+ * $Id: list_keys.c,v 1.34 2024/10/05 19:26:24 tom Exp $
 *
 * Author: Thomas E Dickey
 *
@@ -297,7 +297,7 @@
#if NCURSES_XNAMES
    if (x_opt) {
  for (k = 0; k < count; ++k) {
-     TERMTYPE *term;
+     const TERMTYPE *term;
     set_curterm(terms[k]);
     term = (TERMTYPE *) cur_term;
```

```
     total += (size_t) (NUM_STRINGS(term) - STRCOUNT);
@@ -348,7 +348,7 @@
 widths1 = (int) strlen(modifier);

    for (k = 0; k < count; ++k) {
- char *value;
+ const char *value;
 set_curterm(terms[k]);
 if ((value = termname()) == NULL)
     failed("termname");
Index: test/move_field.c
Prereq:  1.16
--- ncurses-6.5-20240928+/test/move_field.c 2024-06-29 17:45:02.000000000 +0000
+++ ncurses-6.5-20241006/test/move_field.c 2024-10-06 21:12:35.000000000 +0000
@@ -26,7 +26,7 @@
 * authorization.                                       *
 ****************************************************************************/
/*
- * $Id: move_field.c,v 1.16 2024/06/29 17:45:02 tom Exp $
+ * $Id: move_field.c,v 1.19 2024/10/06 21:12:35 tom Exp $
 *
 * Demonstrate move_field().
 */
@@ -146,27 +146,27 @@
}

static FieldAttrs
 *
-my_field_attrs(FIELD *f)
+my_field_attrs(NCURSES_CONST FIELD *f)
{
    return (FieldAttrs *) field_userptr(f);
}

static int
-buffer_length(FIELD *f)
+buffer_length(NCURSES_CONST FIELD *f)
{
    return my_field_attrs(f)->row_lengths[0];
}

static void
-set_buffer_length(FIELD *f, int length)
+set_buffer_length(NCURSES_CONST FIELD *f, int length)
{
    my_field_attrs(f)->row_lengths[0] = length;
}
```

```
static int
-offset_in_field(FORM *form)
+offset_in_field(NCURSES_CONST FORM *form)
{
-    FIELD *field = current_field(form);
+    NCURSES_CONST FIELD *field = current_field(form);
    int currow, curcol;

    form_getyx(form, currow, curcol);
@@ -245,7 +245,7 @@

 default:
     modified = (ch < MIN_FORM_COMMAND
-   && isprint(ch));
+   && isprint(UChar(ch)));
     break;
 }

@@ -275,9 +275,9 @@

/* display a status message to show what's happening */
static void
-show_status(FORM *form, FIELD *field)
+show_status(NCURSES_CONST FORM *form, NCURSES_CONST FIELD
 *field)
{
-    WINDOW *sub = form_sub(form);
+    NCURSES_CONST WINDOW *sub = form_sub(form);
    int currow, curcol;

    getyx(stdscr, currow, curcol);
Index: test/movewindow.c
Prereq:  1.54
--- ncurses-6.5-20240928+/test/movewindow.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/movewindow.c 2024-10-06 18:44:26.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
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 * Copyright 2006-2013,2017 Free Software Foundation, Inc.                    *
 *                                                                            *
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@@ -27,7 +27,7 @@
 * authorization.                                                             *
 ******************************************************************************/
 /*
- * $Id: movewindow.c,v 1.54 2023/05/27 20:13:10 tom Exp $
+ * $Id: movewindow.c,v 1.56 2024/10/06 18:44:26 tom Exp $
```

```
 *
 * Demonstrate move functions for windows and derived windows from the curses
 * library.
@@ -135,7 +135,7 @@
 */
static PAIR *
selectcell(WINDOW *parent,
-    WINDOW *child,
+    NCURSES_CONST WINDOW *child,
    int uli, int ulj,
    int lri, int lrj,
    bool relative,
@@ -252,7 +252,7 @@
    int max_col = (parent == stdscr) ? COL_MAX : getmaxx(parent);
    int min_line = (parent == stdscr) ? LINE_MIN : 0;
    int max_line = (parent == stdscr) ? LINE_MAX : getmaxy(parent);
-    PAIR *tmp;
+    NCURSES_CONST PAIR *tmp;
    bool result = FALSE;

    head_line("Use arrows to move cursor, anything else to mark corner 1");
@@ -346,7 +346,7 @@
}

static WINDOW *
-parent_of(WINDOW *win)
+parent_of(NCURSES_CONST WINDOW *win)
{
    WINDOW *result = 0;
    int n = window2num(win);
@@ -435,7 +435,7 @@
 int max_col = top ? COL_MAX
 : getmaxx(parent);
 int min_line = top ? LINE_MIN : 0;
 int max_line = top ? LINE_MAX : getmaxy(parent);
- PAIR *tmp;
+ NCURSES_CONST PAIR *tmp;
 bool more;

 head_line("Select new position for %swindow", top ? "" : "sub");
@@ -474,7 +474,7 @@
}

static void
-show_derwin(WINDOW *win)
+show_derwin(NCURSES_CONST WINDOW *win)
{
    int pary, parx, maxy, maxx;
```

```
@@ -500,7 +500,7 @@
 int max_col = top ? COL_MAX : getmaxx(parent);
 int min_line = top ? LINE_MIN : 0;
 int max_line = top ? LINE_MAX : getmaxy(parent);
- PAIR *tmp;
+ NCURSES_CONST PAIR *tmp;
 bool more;

 show_derwin(win);
Index: test/ncurses.c
Prereq:  1.538
--- ncurses-6.5-20240928+/test/ncurses.c 2023-11-11 01:23:59.000000000 +0000
+++ ncurses-6.5-20241006/test/ncurses.c 2024-10-06 20:18:59.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
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 Thomas E. Dickey                                  *
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 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -41,7 +41,7 @@
   Author: Eric S. Raymond <esr@snark.thyrsus.com> 1993
           Thomas E. Dickey (beginning revision 1.27 in 1996).

-$Id: ncurses.c,v 1.538 2023/11/11 01:23:59 tom Exp $
+$Id: ncurses.c,v 1.541 2024/10/06 20:18:59 tom Exp $

******************************************************************************/

@@ -273,7 +273,7 @@
     ++x;
     break;
 default:
-     if (!isprint(ch) || ch >= KEY_MIN) {
+     if (!isprint(UChar(ch)) || ch >= KEY_MIN) {
  beep();
     } else if ((int) strlen(buffer) < limit) {
  int j;
@@ -928,7 +928,7 @@
  /* at least Solaris SVR4 curses breaks unctrl(128), etc. */
  c2 &= 0x7f;
#endif
-  if (isprint(c))
+  if (isprint(UChar(c)))
      (void)
```

```
 wprintw(win, "%c", UChar(c));
  else if (c2 != UChar(c))
      (void) wprintw(win, "M-%s", unctrl(c2));
@@ -1693,7 +1693,7 @@
     chtype extras = (chtype) ac;

     if (UseColors) {
-  NCURSES_PAIRS_T pair = 0;
+  NCURSES_PAIRS_T pair;
  if ((fg != COLOR_BLACK) || (bg != COLOR_BLACK)) {
      pair = 1;
      if (init_pair(pair, fg, bg) == ERR) {
@@ -2345,7 +2345,6 @@
 for (i = (NCURSES_PAIRS_T) (base_row * per_row); i < pairs_max; i++) {
     int row = grid_top + (i / per_row) - base_row;
     int col = (i % per_row + 1) * width;
-     NCURSES_PAIRS_T pair = i;

     if ((i / per_row) > row_limit)
  break;
@@ -2355,6 +2354,7 @@
     if (row >= 0 && move(row, col) != ERR) {
  NCURSES_COLOR_T fg = (NCURSES_COLOR_T) InxToFG(i);
  NCURSES_COLOR_T bg = (NCURSES_COLOR_T) InxToBG(i);
+  NCURSES_PAIRS_T pair = i;

  init_pair(pair, fg, bg);
  attron(COLOR_PAIR(pair));
@@ -2517,7 +2517,7 @@
static int
x_color_test(bool recur GCC_UNUSED)
{
-    long i;
+    int i;

 int top = 0, width;
    int base_row = 0;
    int grid_top = top + 3;
@@ -2613,17 +2613,17 @@
 /* show color names/numbers across the top */
 for (i = 0; i < per_row; i++) {
     show_color_name(top + 2,
-       ((int) i + 1) * width,
-       (int) i * zoom_size + MinColors,
+       (i + 1) * width,
+       i * zoom_size + MinColors,
       opt_wide,
       opt_zoom);
```

```
 }

 /* show a grid of colors, with color names/ numbers on the left */
 for (i = (base_row * per_row); i < pairs_max; i++) {
-     int row = grid_top + ((int) i / per_row) - base_row;
-     int col = ((int) i % per_row + 1) * width;
-     int pair = (int) i;
+     int row = grid_top + (i / per_row) - base_row;
+     int col = (i % per_row + 1) * width;
+     int pair = i;

     if ((i / per_row) > row_limit)
  break;
@@ -2828,7 +2828,7 @@
#define DecodeRGB(n) (NCURSES_COLOR_T) ((n * 1000) / 0xffff)

static void
-init_all_colors(bool xterm_colors, char *palette_file)
+init_all_colors(bool xterm_colors, NCURSES_CONST
 char *palette_file)
{
    NCURSES_PAIRS_T cp;
    all_colors = typeMalloc(RGB_DATA, (unsigned) MaxColors);
@@ -3317,7 +3317,7 @@
{
    int c, fmt = 1;
    char buf[9];
-    char *s;
+    NCURSES_CONST char *s;
    attr_t attr = A_NORMAL;
    unsigned at_code = 0;
#if HAVE_SLK_COLOR
@@ -3938,8 +3938,7 @@

    *dst = *src;
    do {
- int count;
- TEST_CCHAR(src, count, {
+ TEST_CCHAR(src, {
     attr |= (test_attrs & A_ALTCHARSET);
     setcchar(dst, test_wch, attr, pair, NULL);
 }, {
@@ -4810,7 +4809,8 @@
/* Ask user for a window definition */
{
    WINDOW *rwindow;
-    pair ul, lr, *tmp;
+    pair ul, lr;
```

```
+    NCURSES_CONST pair *tmp;

    move(0, 0);
    clrtoeol();
@@ -5014,7 +5014,8 @@
#if HAVE_WRESIZE
 case CTRL('X'): /* resize window */
     if (current) {
-  pair *tmp, ul, lr;
+  NCURSES_CONST pair *tmp;
+  pair ul, lr;
  int mx, my;

  move(0, 0);
@@ -5249,7 +5250,7 @@
}

static void
-fill_panel(PANEL *pan)
+fill_panel(NCURSES_CONST PANEL
 *pan)
{
    WINDOW *win = panel_window(pan);
    const char *userptr = (const char *) panel_userptr(pan);
@@ -5286,7 +5287,7 @@
}

static void
-fill_wide_panel(PANEL *pan)
+fill_wide_panel(NCURSES_CONST PANEL *pan)
{
    WINDOW *win = panel_window(pan);
    const char *userptr = (const char *) panel_userptr(pan);
@@ -5336,7 +5337,7 @@
}

static int
-demo_panels(void (*InitPanel) (WINDOW *), void (*FillPanel) (PANEL *))
+demo_panels(void (*InitPanel) (WINDOW *), void (*FillPanel) (NCURSES_CONST PANEL *))
{
    int count;
    int itmp;
@@ -6246,7 +6247,8 @@
run_trace_menu(MENU * m)
{
    ITEM **items;
-    ITEM *i, **p;
+    NCURSES_CONST ITEM *i;
```

```
+    ITEM **p;

    for (;;) {
 bool changed = FALSE;
@@ -6424,7 +6426,7 @@

    if (field_info(me, &rows, &cols, &frow, &fcol, &nrow, &nbuf) == E_OK
 && nbuf > 0) {
- char *source = field_buffer(me, 1);
+ NCURSES_CONST char *source = field_buffer(me, 1);
 size_t have = (source ? strlen(source) : 0) + 1;
 size_t need
 = 80 + have;
 char *temp = malloc(need);
@@ -6434,7 +6436,7 @@
     _nc_STRNCPY(temp, source ? source : "", have + 1);
     len = (size_t) (char *) field_userptr(me);
     if (c <= KEY_MAX) {
-  if (isgraph(c) && (len + 1) < sizeof(temp)) {
+  if (isgraph(UChar(c)) && (len + 1) < sizeof(temp)) {
      temp[len++] = (char) c;
      temp[len] = 0;
      set_field_buffer(me, 1, temp);
@@ -6484,7 +6486,7 @@
}

static int
-form_virtualize(FORM *f, WINDOW *w)
+form_virtualize(NCURSES_CONST FORM *f, WINDOW *w)
{
    /* *INDENT-OFF* */
    static const struct {
@@ -6658,7 +6660,7 @@
static
FIELDCHECK_CB(pw_field_check)
{
-    char *s = field_buffer(fld, 0);
+    NCURSES_CONST char *s = field_buffer(fld, 0);
    int n;

    for (n = 0; s[n] != '\0'; ++n) {
@@ -6680,7 +6682,8 @@
form_test(bool recur GCC_UNUSED)
{
    FORM *form;
-    FIELD *f[12], *secure;
+    FIELD *f[12];
+    NCURSES_CONST FIELD *secure;
```

```
   FIELDTYPE *fty_middle = new_fieldtype(mi_field_check, mi_char_check);
    FIELDTYPE *fty_passwd = new_fieldtype(pw_field_check, pw_char_check);
   int c;
@@ -7176,7 +7179,7 @@
}

static void
-overlap_test_4(int flavor, WINDOW *a, WINDOW *b)
+overlap_test_4(int flavor, NCURSES_CONST WINDOW *a, WINDOW *b)
{
   switch ((otCOPY) flavor) {
   case otCOPY_overwrite:
@@ -7899,7 +7902,7 @@
   bool monochrome = FALSE;
#if HAVE_COLOR_CONTENT
   bool xterm_colors = FALSE;
-   char *palette_file = 0;
+   NCURSES_CONST char *palette_file = 0;
#endif

   setlocale(LC_ALL, "");
Index: test/padview.c
Prereq:  1.22
--- ncurses-6.5-20240928+/test/padview.c 2022-12-04 00:40:11.000000000 +0000
+++ ncurses-6.5-20241006/test/padview.c 2024-10-06 21:08:25.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2019-2021,2022 Thomas E. Dickey                                *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                *
 * Copyright 2017 Free
 Software Foundation, Inc.                                                  *
 *                                                                          *
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@@ -29,7 +29,7 @@
/*
 * clone of view.c, using pads
 *
- * $Id: padview.c,v 1.22 2022/12/04 00:40:11 tom Exp $
+ * $Id: padview.c,v 1.24 2024/10/06 21:08:25 tom Exp $
 */

#include <test.priv.h>
@@ -182,7 +182,7 @@

#if USE_WIDEC_SUPPORT
   if (!memcmp("\357\273\277", my_blob, 3)) {
- char *s = my_blob + 3;
+ const char *s = my_blob + 3;
```

```
 char *d = my_blob;
 Trace(("trim BOM"));
 do {
@@ -213,7 +213,7 @@
    for (k = 0; my_vec[k]; ++k) {
 char *s;
#if USE_WIDEC_SUPPORT
- char *last = my_vec[k] + (int) strlen(my_vec[k]);
+ const char *last = my_vec[k] + (int) strlen(my_vec[k]);
 wchar_t wch[2];
 size_t rc;
#ifndef state_unused
@@ -279,7 +279,7 @@
int
main(int argc, char *argv[])
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =

    {
 "Commands:",
 "  q,^Q,ESC       - quit this program",
@@ -532,7 +532,7 @@
     beep();
     break;
 }
- if (c >= KEY_MIN || (c > 0 && !isdigit(c))) {
+ if (c >= KEY_MIN || (c > 0 && !isdigit(UChar(c)))) {
     got_number = FALSE;
     value = 0;
 }
Index: test/parse_rgb.h
Prereq:  1.5
--- ncurses-6.5-20240928+/test/parse_rgb.h 2020-02-02 23:34:34.000000000 +0000
+++ ncurses-6.5-20241006/test/parse_rgb.h 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2018,2020 Thomas E. Dickey                                       *
+ * Copyright 2018-2020,2024 Thomas E. Dickey                                  *
 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
 * copy of this software and associated documentation files (the            *
@@ -26,7 +26,7 @@
 * authorization.                                                             *
 ******************************************************************************/
/*
- * $Id: parse_rgb.h,v 1.5 2020/02/02 23:34:34 tom Exp $
```

```
+ * $Id: parse_rgb.h,v 1.6 2024/10/05 19:26:24 tom Exp $
 *
 * Sample implementation of ncurses RGB extension from user_caps(5).
 */
@@ -49,7 +49,7 @@
 int bits;
 int pwr2;
 int r = 0, g = 0, b = 0;
- char *data;
+ const char *data;
 char ch;

 for (max_bits = 0, pwr2 = 1;
Index: test/picsmap.c
Prereq:  1.149
--- ncurses-6.5-20240928+/test/picsmap.c 2023-04-23 23:20:37.000000000 +0000
+++ ncurses-6.5-20241006/test/picsmap.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2018-2022,2023 Thomas E. Dickey                                  *
+ * Copyright 2018-2023,2024 Thomas E. Dickey                                  *
 * Copyright 2017,2018 Free Software Foundation, Inc.                         *
 *
                                                                              *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                             *
 ******************************************************************************/
/*
- * $Id: picsmap.c,v 1.149 2023/04/23 23:20:37 tom Exp $
+ * $Id: picsmap.c,v 1.150 2024/10/05 19:26:24 tom Exp $
 *
 * Author: Thomas E. Dickey
 *
@@ -574,7 +574,7 @@
     _nc_STRCAT(full_name, filename, need);
     if (tries & 4) {
  char *t = s;
-  char *tc;
+  const char *tc;
  int num;
  char chr;
  int found = 0;
@@ -1374,8 +1374,8 @@
  int r, g, b, nocolor;
  float rf, gf, bf;
  unsigned check;
-  char *t;
```

```
-  char *s = t = strchr(buffer, '#');
+  char *s = strchr(buffer, '#');
+  const char *t = s;
  bool matched = FALSE;

  if (s != 0) {
@@ -1492,7 +1492,7 @@
#define fg_color(pics,n) (pics->fgcol[n].fgcol)

static void
-dump_picture(PICS_HEAD
 * pics)
+dump_picture(const PICS_HEAD * pics)
{
    int y, x;

@@ -1767,7 +1767,7 @@
#if USE_EXTENDED_COLORS
 case 'x':
     {
-  char *s = optarg;
+  const char *s = optarg;
  while (*s) {
      switch (*s++) {
      case 'p':
Index: test/popup_msg.c
Prereq:  1.12
--- ncurses-6.5-20240928+/test/popup_msg.c 2024-06-29 18:34:58.000000000 +0000
+++ ncurses-6.5-20241006/test/popup_msg.c 2024-10-06 21:07:01.000000000 +0000
@@ -27,7 +27,7 @@
 * authorization.                                               *
 ******************************************************************************/
/*
- * $Id: popup_msg.c,v 1.12 2024/06/29 18:34:58 tom Exp $
+ * $Id: popup_msg.c,v 1.13 2024/10/06 21:07:01 tom Exp $
 *
 * Show a multi-line message in a window which may extend beyond the screen.
 *
@@ -62,7 +62,7 @@
 * Display a temporary window, e.g., to display a help-message.
 */
void
-popup_msg(WINDOW *parent, const char *const *msg)
+popup_msg(WINDOW *parent, NCURSES_CONST
 char *const *msg)
{
    int x0 = 4;
    int y0 = 2;
```

```
@@ -171,12 +171,12 @@
void
popup_msg2(WINDOW *parent, char **msg)
{
-    popup_msg(parent, (const char *const *) msg);
+    popup_msg(parent, (NCURSES_CONST char *const *) msg);
}

#else
void
-popup_msg(WINDOW *parent, const char *const *msg)
+popup_msg(WINDOW *parent, NCURSES_CONST char *const *msg)
{
   (void) parent;
   (void) msg;
Index: test/popup_msg.h
Prereq:  1.5
--- ncurses-6.5-20240928+/test/popup_msg.h 2020-02-02 23:34:34.000000000 +0000
+++ ncurses-6.5-20241006/test/popup_msg.h 2024-10-06 21:17:54.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2018,2020 Thomas E. Dickey                                       *
+ * Copyright 2018-2020,2024 Thomas E. Dickey                                  *
 * Copyright 2017 Free Software Foundation, Inc.                              *
 *                                                                            *
 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a    *
@@ -27,7 +27,7 @@
 * authorization.                                                             *
 ******************************************************************************/
/*
- * $Id: popup_msg.h,v 1.5 2020/02/02 23:34:34 tom Exp $
+ * $Id: popup_msg.h,v 1.6 2024/10/06 21:17:54 tom Exp $
 *
 * Utility functions for a popup-message or help-screen.
 */
@@ -37,7 +37,7 @@

#include <test.priv.h>

-extern void popup_msg(WINDOW *parent, const char *const *msg);
+extern void popup_msg(WINDOW *parent, NCURSES_CONST char *const *msg);
extern void popup_msg2(WINDOW *parent, char **msg);

#endif /* POPUP_MSG_H_incl */
Index: test/railroad.c
Prereq:  1.26
--- ncurses-6.5-20240928+/test/railroad.c 2022-12-11 00:12:13.000000000 +0000
```

```
+++ ncurses-6.5-20241006/test/railroad.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
-
 * Copyright 2019-2020,2022 Thomas E. Dickey                                  *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                  *
 * Copyright 2000-2013,2017 Free Software Foundation, Inc.                    *
 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey - 2000
 *
- * $Id: railroad.c,v 1.26 2022/12/11 00:12:13 tom Exp $
+ * $Id: railroad.c,v 1.27 2024/10/05 19:26:24 tom Exp $
 *
 * A simple demo of the termcap interface.
 */
@@ -113,7 +113,7 @@
static void
ShowSign(char *string)
{
-    char *base = string;
+    const char *base = string;
    int first, last;

    if (moveit != 0) {
Index: test/rain.c
Prereq:  1.58
--- ncurses-6.5-20240928+/test/rain.c 2024-08-31 15:56:10.000000000 +0000
+++ ncurses-6.5-20241006/test/rain.c 2024-10-06 21:09:00.000000000 +0000
@@ -27,7 +27,7
 @@
 * authorization.                                                             *
 ******************************************************************************/
/*
- * $Id: rain.c,v 1.58 2024/08/31 15:56:10 tom Exp $
+ * $Id: rain.c,v 1.62 2024/10/06 21:09:00 tom Exp $
 */
#include <test.priv.h>
#include <popup_msg.h>
@@ -45,7 +45,7 @@

struct DATA;

-typedef void (*DrawPart) (struct DATA *);
+typedef void (*DrawPart) (const struct DATA *);
```

```
typedef struct DATA {
   int y, x;
@@ -118,25 +118,25 @@
}

static void
-part1(DATA * drop)
+part1(const DATA * drop)
{
   MvAddCh(drop->y, drop->x, '.');
}

static void
-part2(DATA * drop)
+part2(const DATA * drop)
{
   MvAddCh(drop->y, drop->x, 'o');
}

static void
-part3(DATA * drop)
+part3(const DATA * drop)
{
   MvAddCh(drop->y, drop->x, 'O');
}

static void
-part4(DATA * drop)
+part4(const DATA * drop)
{
   MvAddCh(drop->y - 1, drop->x, '-');
   MvAddStr(drop->y, drop->x - 1, "|.|");
@@ -144,7 +144,7 @@
 }

static void
-part5(DATA * drop)
+part5(const DATA * drop)
{
   MvAddCh(drop->y - 2, drop->x, '-');
   MvAddStr(drop->y - 1, drop->x - 1, "/ \\");
@@ -154,7 +154,7 @@
}

static void
-part6(DATA * drop)
+part6(const DATA * drop)
{
```

```
   MvAddCh(drop->y - 2, drop->x, ' ');
   MvAddStr(drop->y - 1, drop->x - 1, "   ");
@@ -186,7 +186,7 @@
}

static void
-draw_part(void (*func) (DATA *), int state, DATA * data)
+draw_part(void (*func) (const DATA *), int state, DATA * data)
{
   data->func = func;
   data->state = state;
@@ -328,7 +328,7 @@
int
main(int argc, char *argv[])
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
    {
 "Commands:",
 " q/Q        exit the program",
Index: test/redraw.c
Prereq:  1.17
--- ncurses-6.5-20240928+/test/redraw.c 2022-12-10 22:28:50.000000000 +0000
+++ ncurses-6.5-20241006/test/redraw.c 2024-10-06 21:17:54.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
-
 * Copyright 2020-2021,2022 Thomas E. Dickey                                  *
+ * Copyright 2020-2022,2024 Thomas E. Dickey                                  *
 * Copyright 2006-2012,2017 Free Software Foundation, Inc.                    *
 *                                                                            *
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@@ -27,7 +27,7 @@
 * authorization.                                                             *
 ******************************************************************************/
/*
- * $Id: redraw.c,v 1.17 2022/12/10 22:28:50 tom Exp $
+ * $Id: redraw.c,v 1.18 2024/10/06 21:17:54 tom Exp $
 *
 * Demonstrate the redrawwin() and wredrawln() functions.
 * Thomas Dickey - 2006/11/4
@@ -61,7 +61,7 @@
static void
test_redraw(WINDOW *win)
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
    {
```

```
 "Commands:",
 "  ^Q/ESC/q   - quit",
Index: test/savescreen.c
Prereq:
  1.62
--- ncurses-6.5-20240928+/test/savescreen.c 2022-12-10 23:23:27.000000000 +0000
+++ ncurses-6.5-20241006/test/savescreen.c 2024-10-06 21:10:09.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2018-2021,2022 Thomas E. Dickey                                  *
+ * Copyright 2018-2022,2024 Thomas E. Dickey                                  *
 * Copyright 2006-2017,2018 Free Software Foundation, Inc.                    *
 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                             *
 ******************************************************************************/
/*
- * $Id: savescreen.c,v 1.62 2022/12/10 23:23:27 tom Exp $
+ * $Id: savescreen.c,v 1.65 2024/10/06 21:10:09 tom Exp $
 *
 * Demonstrate save/restore functions
 from the curses library.
 * Thomas Dickey - 2007/7/14
@@ -96,7 +96,7 @@
}

static int
-load_screen(char *filename)
+load_screen(NCURSES_CONST char *filename)
{
   int result;

@@ -170,7 +170,7 @@
#if USE_WIDEC_SUPPORT
   cchar_t mycc;
#endif
-   char *filename = files[which];
+   NCURSES_CONST char *filename = files[which];
   bool dumped = FALSE;

   if (filename != 0) {
@@ -216,7 +216,7 @@
static void
editor_help(void)
{
-   static const char *msgs[] =
+   static NCURSES_CONST char *msgs[] =
```

```
    {
 "You are now in the screen-editor, which allows you to make some",
 "lines on the screen, as well as save copies of the screen to a",
@@ -238,7 +238,7 @@
static void
replay_help(void)
{
-    static const char *msgs[] =
+    static NCURSES_CONST char *msgs[] =
    {
 "You are now in the screen-loader, which allows you to view",
 "the dumped/restored screens.",
@@ -286,7 +286,7 @@
    bool replaying = FALSE;
    bool done = FALSE;
    char **files;
-
    char *fill_by = 0;
+    NCURSES_CONST char *fill_by = 0;
#if USE_WIDEC_SUPPORT
    cchar_t mycc;
    static const wchar_t mywc[2] =
Index: test/tclock.c
Prereq:  1.48
--- ncurses-6.5-20240928+/test/tclock.c 2023-02-25 16:42:22.000000000 +0000
+++ ncurses-6.5-20241006/test/tclock.c 2024-10-05 18:47:56.000000000 +0000
@@ -1,4 +1,4 @@
-/* $Id: tclock.c,v 1.48 2023/02/25 16:42:22 tom Exp $ */
+/* $Id: tclock.c,v 1.49 2024/10/05 18:47:56 tom Exp $ */

#define NEED_TIME_H
#include <test.priv.h>
@@ -145,7 +145,7 @@
    int lastbeep = -1;
    bool odd = FALSE;
    time_t tim;
-    struct tm *t;
+    const struct tm *t;
    char szChar[20];
    char *text;
    short my_bg = COLOR_BLACK;
Index: test/test.priv.h
Prereq:  1.219
--- ncurses-6.5-20240928+/test/test.priv.h 2024-08-31 10:46:01.000000000 +0000
+++ ncurses-6.5-20241006/test/test.priv.h 2024-10-05 19:01:00.000000000 +0000
@@ -30,7 +30,7 @@
/******************************************************************************
```

```
  *  Author: Thomas E. Dickey                    1996-on                    *
 ******************************************************************************/
-/* $Id: test.priv.h,v 1.219 2024/08/31 10:46:01 Rafael.Kitover Exp $ */
+/* $Id: test.priv.h,v 1.220 2024/10/05 19:01:00 tom Exp $ */

#ifndef __TEST_PRIV_H
#define __TEST_PRIV_H 1
@@ -765,8 +765,8 @@

#define VERSION_COMMON() \
static char *version_common(char **argv) { \
- char *base = argv[0]; \
- char *part = strrchr(base, '/'); \
+ const char *base = argv[0]; \
+ const char *part = strrchr(base, '/'); \
 size_t need = strlen(base) + 80; \
 char *result = malloc(need); \
 if (result != NULL) { \
@@ -916,8 +916,8 @@
 * Workaround in case getcchar() returns a positive value when the source
 * string produces only a L'\0'.
 */
-#define TEST_CCHAR(s, count, then_stmt, else_stmt) \
- if ((count = getcchar(s, NULL, NULL, NULL, NULL)) > 0) { \
+#define TEST_CCHAR(s, then_stmt, else_stmt) \
+ if (getcchar(s, NULL, NULL,
 NULL, NULL) > 0) { \
     wchar_t test_wch[CCHARW_MAX + 2]; \
     attr_t test_attrs; \
     NCURSES_PAIRS_T test_pair; \
Index: test/test_add_wchstr.c
Prereq:  1.34
--- ncurses-6.5-20240928+/test/test_add_wchstr.c 2022-12-10 22:28:50.000000000 +0000
+++ ncurses-6.5-20241006/test/test_add_wchstr.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2020-2021,2022 Thomas E. Dickey                                  *
+ * Copyright 2020-2022,2024 Thomas E. Dickey                                  *
 * Copyright 2009-2016,2017 Free Software Foundation, Inc.                    *
 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                             *
 ******************************************************************************/
 /*
- * $Id: test_add_wchstr.c,v 1.34 2022/12/10 22:28:50 tom Exp $
+ * $Id: test_add_wchstr.c,v 1.35 2024/10/05 19:26:24 tom Exp $
 *
```

```
 * Demonstrate the waddwchstr() and wadd_wch functions.
 * Thomas Dickey - 2009/9/12
@@ -158,7 +158,7 @@
}

static void
-legend(WINDOW *win, int level, Options state, wchar_t *buffer, int length)
+legend(WINDOW *win, int level, Options state, const wchar_t *buffer, int length)
{
   const char *showstate;

Index: test/test_addchstr.c
Prereq:  1.29
--- ncurses-6.5-20240928+/test/test_addchstr.c 2022-12-10 22:28:50.000000000 +0000
+++ ncurses-6.5-20241006/test/test_addchstr.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2020,2022 Thomas E. Dickey                                     *
+ * Copyright 2020-2022,2024 Thomas E. Dickey                                *
 * Copyright 2009-2016,2017 Free Software Foundation, Inc.                  *
  *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ******************************************************************************/
/*
- * $Id: test_addchstr.c,v 1.29 2022/12/10 22:28:50 tom Exp $
+ * $Id: test_addchstr.c,v 1.30 2024/10/05 19:26:24 tom Exp $
 *
 * Demonstrate the waddchstr() and waddch functions.
 * Thomas Dickey - 2009/9/12
@@ -169,7 +169,7 @@
}

static int
-ColOf(char *buffer, int length, int margin)
+ColOf(const char *buffer, int length, int margin)
{
   int n;
   int result;
Index: test/test_addstr.c
Prereq:  1.20
--- ncurses-6.5-20240928+/test/test_addstr.c 2022-12-10 22:28:50.000000000 +0000
+++ ncurses-6.5-20241006/test/test_addstr.c 2024-10-05 19:27:33.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
-
```

```
 * Copyright 2020,2022 Thomas E. Dickey                                 *
+ * Copyright 2020-2022,2024 Thomas E. Dickey                            *
 * Copyright 2009-2016,2017 Free Software Foundation, Inc.                *
 *                                                                        *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                         *
 ****************************************************************************/
/*
- * $Id: test_addstr.c,v 1.20 2022/12/10 22:28:50 tom Exp $
+ * $Id: test_addstr.c,v 1.21 2024/10/05 19:27:33 tom Exp $
 *
 * Demonstrate the waddstr() and waddch functions.
 * Thomas Dickey - 2009/9/12
@@ -91,7 +91,7 @@
}

static int
-ColOf(char *buffer, int length, int margin)
+ColOf(const char *buffer, int length, int margin)
{
   int n;
   int result;
Index: test/test_addwstr.c
Prereq:  1.22
---
 ncurses-6.5-20240928+/test/test_addwstr.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/test_addwstr.c 2024-10-05 19:27:33.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2020-2022,2023 Thomas E. Dickey                            *
+ * Copyright 2020-2023,2024 Thomas E. Dickey                             *
 * Copyright 2009-2016,2017 Free Software Foundation, Inc.                *
 *                                                                        *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                         *
 ****************************************************************************/
/*
- * $Id: test_addwstr.c,v 1.22 2023/05/27 20:13:10 tom Exp $
+ * $Id: test_addwstr.c,v 1.23 2024/10/05 19:27:33 tom Exp $
 *
 * Demonstrate the waddwstr() and wadd_wch
 functions.
 * Thomas Dickey - 2009/9/12
@@ -82,7 +82,7 @@
static int n_opt = -1;
```

```
static void
-legend(WINDOW *win, int level, Options state, wchar_t *buffer, int length)
+legend(WINDOW *win, int level, Options state, const wchar_t *buffer, int length)
{
   const char *showstate;

Index: test/test_endwin.c
Prereq:  1.2
--- ncurses-6.5-20240928+/test/test_endwin.c 2023-11-10 15:17:19.000000000 +0000
+++ ncurses-6.5-20241006/test/test_endwin.c 2024-10-05 19:27:33.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2023 Thomas E. Dickey                                          *
+ * Copyright 2023,2024 Thomas E. Dickey                                     *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
 * copy of this software and associated documentation files (the            *
@@ -26,7 +26,7 @@
  * authorization.                                                           *
 ******************************************************************************/
/*
- * $Id: test_endwin.c,v 1.2 2023/11/10 15:17:19 tom Exp $
+ * $Id: test_endwin.c,v 1.3 2024/10/05 19:27:33 tom Exp $
 */
#include <test.priv.h>

@@ -67,7 +67,7 @@
   int rc_e1 = OK;
   int rc_e2 = OK;
   int rc_e3 = OK;
-   SCREEN *sp = NULL;
+   const SCREEN *sp = NULL;
   bool opt_e = FALSE;
   bool opt_i = FALSE;
   bool opt_n = FALSE;
Index: test/test_get_wstr.c
Prereq:  1.14
--- ncurses-6.5-20240928+/test/test_get_wstr.c 2022-12-10 23:59:13.000000000 +0000
+++ ncurses-6.5-20241006/test/test_get_wstr.c 2024-10-06 23:15:10.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2020,2022 Thomas E. Dickey                                     *
+ * Copyright 2020-2022,2024 Thomas E. Dickey                                *
 * Copyright 2007-2011,2017
 Free Software Foundation, Inc.                                             *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
```

```
 * authorization.                                          *
 ****************************************************************************/
/*
- * $Id: test_get_wstr.c,v 1.14 2022/12/10 23:59:13 tom Exp $
+ * $Id: test_get_wstr.c,v 1.16 2024/10/06 23:15:10 tom Exp $
 *
 * Author: Thomas E Dickey
 *
@@ -69,7 +69,7 @@
}

static int
-Remainder(WINDOW *txtwin)
+Remainder(const WINDOW *txtwin)
{
   int result = getmaxx(txtwin) - getcurx(txtwin);
   return (result > 0) ? result : 0;
@@ -138,7 +138,7 @@
static int
recursive_test(int level, char **argv, WINDOW *strwin)
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
    {
 "Commands:",
 "  q,^Q,ESC       - quit this program",
Index: test/test_getstr.c
Prereq:
  1.16
--- ncurses-6.5-20240928+/test/test_getstr.c 2022-12-10 23:58:37.000000000 +0000
+++ ncurses-6.5-20241006/test/test_getstr.c 2024-10-06 22:36:46.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2020,2022 Thomas E. Dickey                                     *
+ * Copyright 2020-2022,2024 Thomas E. Dickey                                *
 * Copyright 2007-2012,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                          *
 ****************************************************************************/
/*
- * $Id: test_getstr.c,v 1.16 2022/12/10 23:58:37 tom Exp $
+ * $Id: test_getstr.c,v 1.19 2024/10/06 22:36:46 tom Exp $
 *
 * Author: Thomas E Dickey
  *
@@ -76,7 +76,7 @@
```

```
}

static int
-Remainder(WINDOW *txtwin)
+Remainder(NCURSES_CONST WINDOW *txtwin)
{
   int result = getmaxx(txtwin) - getcurx(txtwin);
   return (result > 0) ? result : 0;
@@ -145,7 +145,7 @@
static int
recursive_test(int level, char **argv, WINDOW *strwin)
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
    {
 "Commands:",
 "  q,^Q,ESC       - quit this program",
Index: test/test_instr.c
Prereq:  1.13
--- ncurses-6.5-20240928+/test/test_instr.c 2024-06-29 18:42:53.000000000 +0000
+++ ncurses-6.5-20241006/test/test_instr.c 2024-10-06 21:11:54.000000000 +0000
@@ -27,7 +27,7 @@
 * authorization.                                               *
 ****************************************************************************/
/*
- * $Id: test_instr.c,v 1.13 2024/06/29 18:42:53 tom Exp $
+ * $Id: test_instr.c,v 1.15 2024/10/06 21:11:54 tom Exp $
 *
 * Author: Thomas E Dickey
 *
@@ -56,13 +56,13 @@
}

static
 void
-show_1st(WINDOW *win, int line, char *buffer)
+show_1st(WINDOW *win, int line, NCURSES_CONST char *buffer)
{
   MvWAddStr(win, line, 5, buffer);
}

static void
-showmore(WINDOW *win, int line, char *buffer)
+showmore(WINDOW *win, int line, NCURSES_CONST char *buffer)
{
   wmove(win, line, 0);
   wclrtoeol(win);
@@ -72,7 +72,7 @@
```

```
static void
show_help(WINDOW *win)
{
-    static const char *msgs[] =
+    static NCURSES_CONST char *msgs[] =
     {
 "Show file contents and a viewport from the variants of winstr."
 ,"Use h/j/k/l or arrow keys to move the viewport."
Index: test/test_inwstr.c
Prereq:  1.9
--- ncurses-6.5-20240928+/test/test_inwstr.c 2024-06-29 18:40:02.000000000 +0000
+++ ncurses-6.5-20241006/test/test_inwstr.c 2024-10-06 23:15:38.000000000 +0000
@@ -27,7 +27,7 @@
 * authorization.                                               *
 ****************************************************************************/
/*
- * $Id: test_inwstr.c,v
 1.9 2024/06/29 18:40:02 tom Exp $
+ * $Id: test_inwstr.c,v 1.11 2024/10/06 23:15:38 tom Exp $
 *
 * Author: Thomas E Dickey
 *
@@ -59,13 +59,13 @@
}

static void
-show_1st(WINDOW *win, int line, wchar_t *buffer)
+show_1st(WINDOW *win, int line, const wchar_t *buffer)
{
    (void) mvwaddwstr(win, line, 5, buffer);
}

static void
-showmore(WINDOW *win, int line, wchar_t *buffer)
+showmore(WINDOW *win, int line, const wchar_t *buffer)
{
    wmove(win, line, 0);
    wclrtoeol(win);
@@ -75,7 +75,7 @@
static void
show_help(WINDOW *win)
{
-    static const char *msgs[] =
+    static NCURSES_CONST char *msgs[] =
     {
 "Show file contents and a viewport from the variants of winwstr."
 ,"Use h/j/k/l or arrow keys to move the viewport."
Index: test/test_mouse.c
```

```
Prereq:  1.32
--- ncurses-6.5-20240928+/test/test_mouse.c 2024-08-31 10:46:01.000000000 +0000
+++ ncurses-6.5-20241006/test/test_mouse.c 2024-10-05 18:47:56.000000000 +0000
@@ -22,7 +22,7 @@
 * THE USE OR OTHER DEALINGS
 IN THE SOFTWARE.                        *
 ****************************************************************************/
/*
- * $Id: test_mouse.c,v 1.32 2024/08/31 10:46:01 Rafael.Kitover Exp $
+ * $Id: test_mouse.c,v 1.33 2024/10/05 18:47:56 tom Exp $
 *
 * Author: Leonid S Usov
 *
@@ -38,7 +38,7 @@
static void
raw_loop(void)
{
-    char *xtermcap;
+    const char *xtermcap;

    printf("Entering raw mode. Ctrl-c to quit.\n");

Index: test/test_opaque.c
Prereq:  1.15
--- ncurses-6.5-20240928+/test/test_opaque.c 2022-12-11 00:03:10.000000000 +0000
+++ ncurses-6.5-20241006/test/test_opaque.c 2024-10-05 19:27:33.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2020-2021,2022 Thomas E. Dickey                                *
+ * Copyright 2020-2022,2024 Thomas E. Dickey                                *
 * Copyright 2007-2008,2009 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: test_opaque.c,v 1.15 2022/12/11 00:03:10 tom Exp $
+ * $Id: test_opaque.c,v 1.16 2024/10/05 19:27:33 tom Exp $
 *
 * Author: Thomas E Dickey
 *
@@ -157,13 +157,13 @@
}

static int
-status_y(WINDOW *stswin, int cell)
```

```
+status_y(const WINDOW *stswin, int cell)
{
   return (cell % getmaxy(stswin));
}

static int
-status_x(WINDOW *stswin, int cell)
+status_x(const WINDOW *stswin, int cell)
{
   return (15 * (cell / getmaxy(stswin)));
}
Index: test/test_sgr.c
Prereq:  1.22
--- ncurses-6.5-20240928+/test/test_sgr.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/test_sgr.c 2024-10-06 21:05:50.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
-
 * Copyright 2019-2022,2023 Thomas E. Dickey                                  *
+ * Copyright 2019-2023,2024 Thomas E. Dickey                                  *
 * Copyright 2015-2016,2017 Free Software Foundation, Inc.                    *
 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey
 *
- * $Id: test_sgr.c,v 1.22 2023/05/27 20:13:10 tom Exp $
+ * $Id: test_sgr.c,v 1.25 2024/10/06 21:05:50 tom Exp $
 *
 * A simple demo of the sgr/sgr0 terminal capabilities.
 */
@@ -142,10 +142,10 @@
#define MASK_REV  (1 << 2)

static void
-dumpit(unsigned bits, unsigned ignore, const char *sgr, const char *sgr0)
+dumpit(unsigned bits, unsigned ignore, NCURSES_CONST char *sgr, NCURSES_CONST char *sgr0)
{
-    static const char sample[] = "abcdefghijklm";
-    static
 char params[] = "SURBDBIPA";
+    static NCURSES_CONST char sample[] = "abcdefghijklm";
+    static NCURSES_CONST char params[] = "SURBDBIPA";
    unsigned n;

    printf("%4u ", bits);
@@ -177,12 +177,11 @@
```

```
static void
brute_force(const char *name)
{
-    unsigned count;
-    char *my_sgr;
-    char *my_sgr0;
-    char *my_bold;
-    char *my_revs;
-    char *my_smso;
+    NCURSES_CONST char *my_sgr;
+    NCURSES_CONST char *my_sgr0;
+    NCURSES_CONST char *my_bold;
+    NCURSES_CONST char *my_revs;
+    NCURSES_CONST char *my_smso;
    char *my_name = strdup(name);

    if (db_list) {
@@ -219,6 +218,7 @@
 unsigned ignore = 0;
 unsigned reason = 0;
 unsigned repeat = 0;
+ unsigned count;
 for (count = 0; count < MAXSGR; ++count) {
     values[count] = tparm(my_sgr,
      BITS2P(1),
@@ -334,7 +334,7 @@
main(int argc, char *argv[])
{
    int ch;
-    char *name;
+    const char *name;

    while ((ch = getopt(argc, argv, OPTS_COMMON "d:e:nq")) != -1) {
 switch (ch)
 {
@@ -369,7 +369,7 @@
    } else if ((name = getenv("TERM")) != 0) {
 brute_force(name);
    } else {
- static char dumb[] = "dumb";
+ static const char dumb[] = "dumb";
 brute_force(dumb);
    }

Index: test/test_tparm.c
Prereq:  1.39
--- ncurses-6.5-20240928+/test/test_tparm.c 2023-11-11 01:00:03.000000000 +0000
+++ ncurses-6.5-20241006/test/test_tparm.c 2024-10-06 20:50:27.000000000 +0000
```

```
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2020-2022,2023 Thomas E. Dickey                                  *
+ * Copyright 2020-2023,2024 Thomas E. Dickey                                  *
 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
 * copy of this software and associated documentation files (the            *
@@ -29,7 +29,7 @@
/*
 * Author: Thomas E. Dickey
 *
- * $Id: test_tparm.c,v 1.39 2023/11/11 01:00:03
 tom Exp $
+ * $Id: test_tparm.c,v 1.42 2024/10/06 20:50:27 tom Exp $
 *
 * Exercise tparm/tiparm, either for all possible capabilities with fixed
 * parameters, or one capability with specific combinations of parameters.
@@ -107,7 +107,7 @@
}

static int
-isNumeric(char *source)
+isNumeric(NCURSES_CONST char *source)
{
   char *next = 0;
   long value = strtol(source, &next, 0);
@@ -245,7 +245,7 @@
#define NS_9(fmt) NS_8(fmt), NumStr(8)

static void
-test_tparm(const char *name, const char *format, long *number, char **string)
+test_tparm(const char *name, NCURSES_CONST char *format, long *number, char **string)
{
   char *use_strings[MAX_PARM];
   char *result = NULL;
@@ -527,7 +527,7 @@
    }
 } else {
    char *s = t_opt;
-    char *t;
+    NCURSES_CONST char *t;
    while ((t = strtok(s, ",")) != 0) {
  s = 0;
  if (len_terms + 2 >= max_terms) {
@@ -603,7 +603,7 @@
#if NCURSES_XNAMES
    len_caps = std_caps;
    if (cur_term) {
```

```
-  TERMTYPE *term =
 (TERMTYPE *) cur_term;
+  NCURSES_CONST TERMTYPE *term = (TERMTYPE *) cur_term;
  for (n = STRCOUNT; n < NUM_STRINGS(term); ++n) {
      GrowArray(all_caps, max_caps, len_caps);
      GrowArray(cap_name, max_name, len_caps);
Index: test/test_vidputs.c
Prereq:  1.15
--- ncurses-6.5-20240928+/test/test_vidputs.c 2022-12-10 23:23:27.000000000 +0000
+++ ncurses-6.5-20241006/test/test_vidputs.c 2024-10-06 21:17:54.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2020-2021,2022 Thomas E. Dickey                                  *
+ * Copyright 2020-2022,2024 Thomas E. Dickey                                  *
 * Copyright 2013-2014,2017 Free Software Foundation, Inc.                    *
 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                             *
 ******************************************************************************/
/*
- * $Id: test_vidputs.c,v 1.15 2022/12/10 23:23:27 tom Exp $
+ * $Id: test_vidputs.c,v 1.16 2024/10/06 21:17:54 tom Exp $
 *
 * Demonstrate the vidputs and vidattr functions.
 * Thomas Dickey - 2013/01/12
@@ -51,7 +51,7 @@
}

static bool
-outs(const char *s)
+outs(NCURSES_CONST char *s)
{
   if (VALID_STRING(s)) {
 tputs(s, 1, outc);
Index: test/testcurs.c
Prereq:  1.58
--- ncurses-6.5-20240928+/test/testcurs.c 2023-05-28 14:23:34.000000000 +0000
+++ ncurses-6.5-20241006/test/testcurs.c 2024-10-05 19:17:19.000000000 +0000
@@ -6,7 +6,7 @@
 *  wrs(5/28/93) -- modified to be consistent (perform identically) with either
 *                  PDCurses or under Unix System V, R4
 *
- * $Id: testcurs.c,v 1.58 2023/05/28 14:23:34 tom Exp $
+ * $Id: testcurs.c,v 1.59 2024/10/05 19:17:19 tom Exp $
 */
```

```
#include <test.priv.h>
@@ -245,7 +245,7 @@
 wclrtobot(win);
 if (c >= KEY_MIN)
      wprintw(win, "Key Pressed: %s", keyname(c));
- else if (isprint(c))
+ else if (isprint(UChar(c)))
     wprintw(win, "Key Pressed: %c", c);
 else
     wprintw(win, "Key Pressed: %s", unctrl(UChar(c)));
@@ -748,8 +748,8 @@
 keypad(stdscr, TRUE);
 raw();
 key = getch();
- if (key < KEY_MIN && key > 0 && isalpha(key)) {
-     if (islower(key))
+ if (key < KEY_MIN && key > 0 && isalpha(UChar(key))) {
+     if (islower(UChar(key)))
  key = toupper(key);
     for (n = 0; n < MAX_OPTIONS; ++n) {
  if (key == command[n].text[0]) {
Index: test/testscanw.c
Prereq:  1.15
--- ncurses-6.5-20240928+/test/testscanw.c 2022-12-11 00:10:29.000000000 +0000
+++ ncurses-6.5-20241006/test/testscanw.c 2024-10-05 19:27:33.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
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@@ -30,7 +30,7 @@
 * Date:  1997/03/17
 * From:  bayern@morpheus.cis.yale.edu
 *
- * $Id: testscanw.c,v 1.15 2022/12/11 00:10:29 tom Exp $
+ * $Id: testscanw.c,v 1.16 2024/10/05 19:27:33 tom Exp $
 */
#include <test.priv.h>

@@ -85,7 +85,7 @@
    curses_trace(TRACE_UPDATE | TRACE_CALLS);
#endif
    while (optind < argc) {
- char *token = argv[optind++];
+ const char *token = argv[optind++];
```

```
 if (isdigit(UChar(*token)))
     move(atoi(token), 0);
 else if (!strcmp(token, "k+"))
Index: test/view.c
Prereq:  1.145
--- ncurses-6.5-20240928+/test/view.c 2022-12-04 00:40:11.000000000 +0000
+++ ncurses-6.5-20241006/test/view.c 2024-10-06 21:08:05.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
-
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@@ -52,7 +52,7 @@
 * scroll operation worked, and the refresh() code only had to do a
 * partial repaint.
 *
- * $Id: view.c,v 1.145 2022/12/04 00:40:11 tom Exp $
+ * $Id: view.c,v 1.147 2024/10/06 21:08:05 tom Exp $
 */

#include <test.priv.h>
@@ -93,8 +93,7 @@

#if USE_WIDEC_SUPPORT
    for (;;) {
- int count;
- TEST_CCHAR(src, count, {
+ TEST_CCHAR(src, {
     int len = wcwidth(test_wch[0]);
     result += (len > 0) ? len : 1;
     ++src;
@@ -186,12 +185,10 @@
      */
     {
  int j;
-  int width = 1;
+  int width;

  for (j = actual = 0; j < shift; ++j) {
-      int count;
-
-
    TEST_CCHAR(s + j, count, {
+      TEST_CCHAR(s + j, {
   width = wcwidth(test_wch[0]);
```

```
     }
     , {
@@ -294,7 +291,7 @@

#if USE_WIDEC_SUPPORT
   if (!memcmp("\357\273\277", my_blob, 3)) {
- char *s = my_blob + 3;
+ const char *s = my_blob + 3;
 char *d = my_blob;
 Trace(("trim BOM"));
 do {
@@ -329,7 +326,7 @@
 char *s;
 int y, x;
#if USE_WIDEC_SUPPORT
- char *last = my_vec[k] + (int) strlen(my_vec[k]);
+ const char *last = my_vec[k] + (int) strlen(my_vec[k]);
 wchar_t wch[2];
 size_t rc;
#ifndef state_unused
@@ -408,7 +405,7 @@
int
main(int argc, char *argv[])
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
    {
 "Commands:",
 "  q,^Q,ESC       - quit this program",
@@ -659,7 +656,7 @@
     beep();
     break;
 }
- if (c >= KEY_MIN || (c > 0 && !isdigit(c))) {
+ if (c >= KEY_MIN || (c > 0 && !isdigit(UChar(c)))) {
     got_number = FALSE;
     value = 0;
 }
```

Found in path(s):
* /opt/cola/permits/2305468658_1736345389.2889287/0/ncurses-6-5-20241006-patch-gz/ncurses-6.5-20241006.patch

1.5701 py3-pip-pyc 24.3.1-r0

1.5701.1 Available under license :

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
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2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes

2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

# Automatically generated by apkbuild-cpan, template 4
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```
pkgname=perl-bsd-resource
pkgver=1.2911
pkgrel=10
#_pkgreal is used by apkbuild-cpan to find modules at MetaCpan
_pkgreal=BSD-Resource
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="https://metacpan.org/release/BSD-Resource/"
arch="all"
license="Artistic-2.0 OR LGPL-2.0"
depends="perl"
makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/J/JH/JHI/BSD-Resource-$pkgver.tar.gz"
builddir="$srcdir/$_pkgreal-$pkgver"

build() {
 export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
 PERL_MM_USE_DEFAULT=1 perl -I. Makefile.PL \
  INSTALLDIRS=vendor \
  NO_PACKLIST=1 \
  NO_PERLLOCAL=1
 make
}

check() {
 export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
 make test
}

package() {
 make DESTDIR="$pkgdir" install
}

sha512sums="
d0032d41c7c0468ed1c6d8f57b885f6cb97a5039d754c8cb60b2067daedaf53bd15fb6561a3d0f828df16dfa5417f663b
8065ba65f4fea16dc9262728b3b6b85
  BSD-Resource-1.2911.tar.gz
"
```

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Version 3.1, 31 March 2009

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options="!check" # no test suite
license="CC-BY-3.0"
source="license-list-data-$pkgver.tar.gz::https://github.com/spdx/license-list-data/archive/v$pkgver.tar.gz"
builddir="$srcdir/license-list-data-$pkgver"
subpackages="$pkgname-list"

_types="html json rdfa rdfnt rdfturtle rdfxml template text"

for type in $_types; do
 subpackages="$subpackages $pkgname-$type:_subpkg"
done

package() {
 mkdir -p "$pkgdir"
}

_subpkg() {
 local type=${subpkgname/$pkgname-/}
 pkgdesc="$pkgdesc ($type)"
 install_if="$pkgname=$pkgver-r$pkgrel"
 mkdir -p "$subpkgdir"/usr/share/spdx
 cp -r "$builddir"/$type "$subpkgdir"/usr/share/spdx/
}

list() {
 pkgdesc="$pkgdesc (licence list)"
 mkdir -p "$subpkgdir"/usr/share/spdx
 local i; for i in "$builddir"/text/*.txt;
 do
  local license=${i##*/}
  echo ${license%.*} >> "$subpkgdir"/usr/share/spdx/license.lst
 done
}

sha512sums="
6eb81424e1b3173dbd8e17859b2e15dfe1c2af8f4da59b7dad0729c038a4cbdba95c34c2c546285fcdbbd41562e39575e
6a6ebb9463b70121e0a12b99d1307e7  license-list-data-3.24.0.tar.gz
```

```
"
mini_sendmail - accept email on behalf of real sendmail

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SUCH DAMAGE.
# Contributor: Patrycja Rosa <alpine@ptrcnull.me>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=bsd-compat-headers
pkgver=0.7.2
pkgrel=6
pkgdesc="BSD compatibility headers (cdefs, queue, tree)"
url="https://gitlab.alpinelinux.org/alpine/aports"
arch="noarch"
license="BSD-2-Clause AND BSD-3-Clause"
source="
 cdefs.h
 queue.h
 tree.h
"
builddir="$srcdir"
options="!check" # just headers

package() {
 mkdir -p "$pkgdir"
 install -Dm644 -t "$pkgdir"/usr/include/sys \
  cdefs.h queue.h tree.h
```

}
sha512sums="
37c8fc73c7aea7b490f7850927e2bb91d12137c9e59e22c084146d515696dbc7973b5de92f4c987ba080dd2502ba8312
7006442c3f019b6447a620c0cae73178 cdefs.h
2f0d5e6e4dc3350285cf17009265dddcbe12431c111868eea39bc8cb038ab7c1f2acacbb21735c4e9d4a1fd106a8fc0f86
11ea33987d4faba37dde5ce6da0750 queue.h
d9ac210d81feb8ad2655bc80fb065d3fe20ae4417b32b4a1711e6738a4870140005c13373b5d1846ef3ce5ae6da45f2da
cef2092881eded0a2e94f6a07752ef3 tree.h
"
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Version 3.1, 31 March 2009

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1.5704 skalibs-libs 2.14.3.0-r0

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1.5705 py3-parsing-pyc 3.1.4-r0

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1.5706 auto-sdk 1.1.0

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```
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package version

// Collection is a type that implements the sort.Interface interface
// so that versions can be sorted.
type Collection []*Version

func (v Collection) Len() int {
 return len(v)
}

func (v Collection) Less(i, j int) bool {
 return v[i].LessThan(v[j])
}

func (v Collection) Swap(i, j int) {
 v[i], v[j] = v[j], v[i]
}
```

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```
package version

import (
 "reflect"
 "sort"
 "testing"
)

func TestCollection(t *testing.T) {
 versionsRaw := []string{
```

```
 "1.1.1",
 "1.0",
 "1.2",
 "2",
 "0.7.1",
}

versions := make([]*Version, len(versionsRaw))
for i, raw := range versionsRaw {
 v, err := NewVersion(raw)
 if err != nil {
  t.Fatalf("err: %s", err)
 }

 versions[i] = v
}

sort.Sort(Collection(versions))

actual := make([]string, len(versions))
for i, v := range versions {
 actual[i] = v.String()
}

expected := []string{
 "0.7.1",
 "1.0.0",
 "1.1.1",
 "1.2.0",
 "2.0.0",
}

if !reflect.DeepEqual(actual, expected) {
 t.Fatalf("bad: %#v", actual)
}
}
name: go-tests

on: [push]

env:
 TEST_RESULTS: /tmp/test-results

jobs:

 go-tests:
  runs-on: ubuntu-latest
  strategy:
```

```
    matrix:
      go-version: [ 1.15.3, 1.19 ]

  steps:
    - name: Setup go
      uses: actions/setup-go@41dfa10bad2bb2ae585af6ee5bb4d7d973ad74ed # v5.1.0
      with:
        go-version: ${{ matrix.go-version }}

    - name: Checkout code
      uses: actions/checkout@11bd71901bbe5b1630ceea73d27597364c9af683 # v4.2.2

    - name: Create test directory
      run: |
        mkdir -p ${{ env.TEST_RESULTS }}

    - name: Download go modules
      run: go mod download

    - name: Cache / restore go modules
      uses: actions/cache@1bd1e32a3bdc45362d1e726936510720a7c30a57 # v4.2.0
      with:
        path: |
          ~/go/pkg/mod
        key: ${{ runner.os }}-go-${{ hashFiles('**/go.sum') }}
        restore-keys: |
          ${{ runner.os }}-go-

    # Check go fmt output because it does not report
non-zero when there are fmt changes
    - name: Run gofmt
      run: |
        go fmt ./...
        files=$(go fmt ./...)
          if [ -n "$files" ]; then
            echo "The following file(s) do not conform to go fmt:"
            echo "$files"
            exit 1
          fi

    # Install gotestsum with go get for 1.15.3; otherwise default to go install
    - name: Install gotestsum
      run: |
        GTS="gotest.tools/gotestsum@v1.8.2"
        # We use the same error message prefix in either failure case, so just define it once here.
        ERROR="Failed to install $GTS"
        # First try to 'go install', if that fails try 'go get'...
        go install "$GTS" || go get "$GTS" || { echo "$ERROR: both 'go install' and 'go get' failed"; exit 1; }
```

```
        # Check that the gotestsum command was actually installed in the path...
        command -v gotestsum > /dev/null 2>&1 || { echo "$ERROR: gotestsum command not installed"; exit
1; }
        echo "OK: Command 'gotestsum' installed ($GTS)"

    - name: Run go tests
      run: |
        PACKAGE_NAMES=$(go list ./...)
        gotestsum --format=short-verbose --junitfile $TEST_RESULTS/gotestsum-report.xml --
$PACKAGE_NAMES

    # Save coverage report parts
    - name: Upload and save artifacts
      uses: actions/upload-artifact@b4b15b8c7c6ac21ea08fcf65892d2ee8f75cf882 # v4.4.3
      with:
        name: Test Results
        path: ${{ env.TEST_RESULTS }}
```

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Versioning Library for Go

![Build Status](https://github.com/hashicorp/go-version/actions/workflows/go-tests.yml/badge.svg)
[![GoDoc](https://godoc.org/github.com/hashicorp/go-version?status.svg)](https://godoc.org/github.com/hashicorp/go-version)

go-version is a library for parsing versions and version constraints,
and verifying versions against a set of constraints. go-version
can sort a collection of versions properly, handles prerelease/beta
versions, can increment versions, etc.

Versions used with go-version must follow [SemVer](http://semver.org/).

Installation and Usage

Package documentation can be found on
[GoDoc](http://godoc.org/github.com/hashicorp/go-version).

Installation can be done with a normal `go get`:

```
$ go get github.com/hashicorp/go-version
```

Version Parsing and Comparison

```go
v1, err := version.NewVersion("1.2")
v2, err := version.NewVersion("1.5+metadata")

// Comparison example. There is also GreaterThan, Equal, and just
// a simple Compare
 that returns an int allowing easy >=, <=, etc.
if v1.LessThan(v2) {
   fmt.Printf("%s is less than %s", v1, v2)
}
```

Version Constraints

```go
v1, err := version.NewVersion("1.2")

// Constraints example.
constraints, err := version.NewConstraint(">= 1.0, < 1.4")
if constraints.Check(v1) {
 fmt.Printf("%s satisfies constraints %s", v1, constraints)
}
```

Version Sorting

```go
versionsRaw := []string{"1.1", "0.7.1", "1.4-beta", "1.4", "2"}
versions := make([]*version.Version, len(versionsRaw))
for i, raw := range versionsRaw {
   v, _ := version.NewVersion(raw)
   versions[i] = v
}

// After this, the versions are properly sorted
sort.Sort(version.Collection(versions))
```

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package version

import (
 "encoding/json"
 "fmt"
 "reflect"

```
 "testing"
)

func TestNewVersion(t *testing.T) {
 cases := []struct {
  version string
  err     bool
 }{
  {"", true},
  {"1.2.3", false},
  {"1.0", false},
  {"1", false},
  {"1.2.beta", true},
  {"1.21.beta", true},
  {"foo", true},
  {"1.2-5", false},
  {"1.2-beta.5", false},
  {"\n1.2", true},
  {"1.2.0-x.Y.0+metadata", false},
  {"1.2.0-x.Y.0+metadata-width-hyphen", false},
  {"1.2.3-rc1-with-hyphen", false},
  {"1.2.3.4", false},
  {"1.2.0.4-x.Y.0+metadata", false},
  {"1.2.0.4-x.Y.0+metadata-width-hyphen", false},
  {"1.2.0-X-1.2.0+metadata~dist", false},
  {"1.2.3.4-rc1-with-hyphen", false},
  {"1.2.3.4", false},
  {"v1.2.3", false},
  {"foo1.2.3", true},
  {"1.7rc2", false},
  {"v1.7rc2", false},
  {"1.0-", false},
 }

 for _, tc := range cases {
  _, err := NewVersion(tc.version)
  if tc.err && err == nil {
   t.Fatalf("expected error for version:
%q", tc.version)
  } else if !tc.err && err != nil {
   t.Fatalf("error for version %q: %s", tc.version, err)
  }
 }
}

func TestNewSemver(t *testing.T) {
 cases := []struct {
  version string
```

```
 err     bool
}{
 {"", true},
 {"1.2.3", false},
 {"1.0", false},
 {"1", false},
 {"1.2.beta", true},
 {"1.21.beta", true},
 {"foo", true},
 {"1.2-5", false},
 {"1.2-beta.5", false},
 {"\n1.2", true},
 {"1.2.0-x.Y.0+metadata", false},
 {"1.2.0-x.Y.0+metadata-width-hyphen", false},
 {"1.2.3-rc1-with-hyphen", false},
 {"1.2.3.4", false},
 {"1.2.0.4-x.Y.0+metadata", false},
 {"1.2.0.4-x.Y.0+metadata-width-hyphen", false},
 {"1.2.0-X-1.2.0+metadata~dist", false},
 {"1.2.3.4-rc1-with-hyphen", false},
 {"1.2.3.4", false},
 {"v1.2.3", false},
 {"foo1.2.3", true},
 {"1.7rc2", true},
 {"v1.7rc2", true},
 {"1.0-", true},
}

for _, tc := range cases {
 _, err := NewSemver(tc.version)
 if tc.err && err == nil {
  t.Fatalf("expected error for version: %q", tc.version)
 } else
if !tc.err && err != nil {
  t.Fatalf("error for version %q: %s", tc.version, err)
 }
}
}

func TestCore(t *testing.T) {
cases := []struct {
 v1 string
 v2 string
}{
 {"1.2.3", "1.2.3"},
 {"2.3.4-alpha1", "2.3.4"},
 {"3.4.5alpha1", "3.4.5"},
 {"1.2.3-2", "1.2.3"},
```

```
 {"4.5.6-beta1+meta", "4.5.6"},
 {"5.6.7.1.2.3", "5.6.7"},
}

for _, tc := range cases {
 v1, err := NewVersion(tc.v1)
 if err != nil {
  t.Fatalf("error for version %q: %s", tc.v1, err)
 }
 v2, err := NewVersion(tc.v2)
 if err != nil {
  t.Fatalf("error for version %q: %s", tc.v2, err)
 }

 actual := v1.Core()
 expected := v2

 if !reflect.DeepEqual(actual, expected) {
  t.Fatalf("expected: %s\nactual: %s", expected, actual)
 }
}
}

func TestVersionCompare(t *testing.T) {
 cases := []struct {
  v1       string
  v2       string
  expected int
 }{
  {"1.2.3", "1.4.5", -1},
  {"1.2-beta", "1.2-beta", 0},
  {"1.2", "1.1.4", 1},
  {"1.2", "1.2-beta", 1},
  {"1.2+foo", "1.2+beta", 0},
  {"v1.2", "v1.2-beta",
 1},
  {"v1.2+foo", "v1.2+beta", 0},
  {"v1.2.3.4", "v1.2.3.4", 0},
  {"v1.2.0.0", "v1.2", 0},
  {"v1.2.0.0.1", "v1.2", 1},
  {"v1.2", "v1.2.0.0", 0},
  {"v1.2", "v1.2.0.0.1", -1},
  {"v1.2.0.0", "v1.2.0.0.1", -1},
  {"v1.2.3.0", "v1.2.3.4", -1},
  {"1.7rc2", "1.7rc1", 1},
  {"1.7rc2", "1.7", -1},
  {"1.2.0", "1.2.0-X-1.2.0+metadata~dist", 1},
 }
```

```
 for _, tc := range cases {
  v1, err := NewVersion(tc.v1)
  if err != nil {
   t.Fatalf("err: %s", err)
  }

  v2, err := NewVersion(tc.v2)
  if err != nil {
   t.Fatalf("err: %s", err)
  }

  actual := v1.Compare(v2)
  expected := tc.expected
  if actual != expected {
   t.Fatalf(
    "%s <=> %s\nexpected: %d\nactual: %d",
    tc.v1, tc.v2,
    expected, actual)
  }
 }
}

func TestVersionCompare_versionAndSemver(t *testing.T) {
 cases := []struct {
  versionRaw string
  semverRaw  string
  expected   int
 }{
  {"0.0.2", "0.0.2", 0},
  {"1.0.2alpha", "1.0.2-alpha", 0},
  {"v1.2+foo", "v1.2+beta", 0},
  {"v1.2", "v1.2+meta", 0},
  {"1.2",
 "1.2-beta", 1},
  {"v1.2", "v1.2-beta", 1},
  {"1.2.3", "1.4.5", -1},
  {"v1.2", "v1.2.0.0.1", -1},
  {"v1.0.3-", "v1.0.3", -1},
 }

 for _, tc := range cases {
  ver, err := NewVersion(tc.versionRaw)
  if err != nil {
   t.Fatalf("err: %s", err)
  }

  semver, err := NewSemver(tc.semverRaw)
```

```
  if err != nil {
   t.Fatalf("err: %s", err)
  }

  actual := ver.Compare(semver)
  if actual != tc.expected {
   t.Fatalf(
    "%s <=> %s\nexpected: %d\n actual: %d",
    tc.versionRaw, tc.semverRaw, tc.expected, actual,
   )
  }
 }
}

func TestVersionEqual_nil(t *testing.T) {
 mustVersion := func(v string) *Version {
  ver, err := NewVersion(v)
  if err != nil {
   t.Fatal(err)
  }
  return ver
 }
 cases := []struct {
  leftVersion  *Version
  rightVersion *Version
  expected     bool
 }{
  {mustVersion("1.0.0"), nil, false},
  {nil, mustVersion("1.0.0"), false},
  {nil, nil, true},
 }

 for _, tc := range cases {
  given := tc.leftVersion.Equal(tc.rightVersion)
  if given != tc.expected {
   t.Fatalf("expected
 Equal to nil to be %t", tc.expected)
  }
 }
}

func TestComparePreReleases(t *testing.T) {
 cases := []struct {
  v1       string
  v2       string
  expected int
 }{
  {"1.2-beta.2", "1.2-beta.2", 0},
```

```
 {"1.2-beta.1", "1.2-beta.2", -1},
 {"1.2-beta.2", "1.2-beta.11", -1},
 {"3.2-alpha.1", "3.2-alpha", 1},
 {"1.2-beta.2", "1.2-beta.1", 1},
 {"1.2-beta.11", "1.2-beta.2", 1},
 {"1.2-beta", "1.2-beta.3", -1},
 {"1.2-alpha", "1.2-beta.3", -1},
 {"1.2-beta", "1.2-alpha.3", 1},
 {"3.0-alpha.3", "3.0-rc.1", -1},
 {"3.0-alpha3", "3.0-rc1", -1},
 {"3.0-alpha.1", "3.0-alpha.beta", -1},
 {"5.4-alpha", "5.4-alpha.beta", 1},
 {"v1.2-beta.2", "v1.2-beta.2", 0},
 {"v1.2-beta.1", "v1.2-beta.2", -1},
 {"v3.2-alpha.1", "v3.2-alpha", 1},
 {"v3.2-rc.1-1-g123", "v3.2-rc.2", 1},
}

for _, tc := range cases {
 v1, err := NewVersion(tc.v1)
 if err != nil {
  t.Fatalf("err: %s", err)
 }

 v2, err := NewVersion(tc.v2)
 if err != nil {
  t.Fatalf("err: %s", err)
 }

 actual
:= v1.Compare(v2)
 expected := tc.expected
 if actual != expected {
  t.Fatalf(
   "%s <=> %s\nexpected: %d\nactual: %d",
   tc.v1, tc.v2,
   expected, actual)
 }
}
}

func TestVersionMetadata(t *testing.T) {
 cases := []struct {
  version  string
  expected string
 }{
  {"1.2.3", ""},
  {"1.2-beta", ""},
```

```
 {"1.2.0-x.Y.0", ""},
 {"1.2.0-x.Y.0+metadata", "metadata"},
 {"1.2.0-metadata-1.2.0+metadata~dist", "metadata~dist"},
}

for _, tc := range cases {
 v, err := NewVersion(tc.version)
 if err != nil {
  t.Fatalf("err: %s", err)
 }

 actual := v.Metadata()
 expected := tc.expected
 if actual != expected {
  t.Fatalf("expected: %s\nactual: %s", expected, actual)
 }
}
}

func TestVersionPrerelease(t *testing.T) {
 cases := []struct {
  version  string
  expected string
 }{
  {"1.2.3", ""},
  {"1.2-beta", "beta"},
  {"1.2.0-x.Y.0", "x.Y.0"},
  {"1.2.0-7.Y.0", "7.Y.0"},
  {"1.2.0-x.Y.0+metadata", "x.Y.0"},
  {"1.2.0-metadata-1.2.0+metadata~dist", "metadata-1.2.0"},
  {"17.03.0-ce",
 "ce"}, // zero-padded fields
 }

 for _, tc := range cases {
  v, err := NewVersion(tc.version)
  if err != nil {
   t.Fatalf("err: %s", err)
  }

  actual := v.Prerelease()
  expected := tc.expected
  if actual != expected {
   t.Fatalf("expected: %s\nactual: %s", expected, actual)
  }
 }
}
```

```
func TestVersionSegments(t *testing.T) {
 cases := []struct {
  version  string
  expected []int
 }{
  {"1.2.3", []int{1, 2, 3}},
  {"1.2-beta", []int{1, 2, 0}},
  {"1-x.Y.0", []int{1, 0, 0}},
  {"1.2.0-x.Y.0+metadata", []int{1, 2, 0}},
  {"1.2.0-metadata-1.2.0+metadata~dist", []int{1, 2, 0}},
  {"17.03.0-ce", []int{17, 3, 0}}, // zero-padded fields
 }

 for _, tc := range cases {
  v, err := NewVersion(tc.version)
  if err != nil {
   t.Fatalf("err: %s", err)
  }

  actual := v.Segments()
  expected := tc.expected
  if !reflect.DeepEqual(actual, expected) {
   t.Fatalf("expected: %#v\nactual: %#v", expected, actual)
  }
 }
}

func TestVersionSegments64(t *testing.T) {
 cases
 := []struct {
  version  string
  expected []int64
 }{
  {"1.2.3", []int64{1, 2, 3}},
  {"1.2-beta", []int64{1, 2, 0}},
  {"1-x.Y.0", []int64{1, 0, 0}},
  {"1.2.0-x.Y.0+metadata", []int64{1, 2, 0}},
  {"1.4.9223372036854775807", []int64{1, 4, 9223372036854775807}},
 }

 for _, tc := range cases {
  v, err := NewVersion(tc.version)
  if err != nil {
   t.Fatalf("err: %s", err)
  }

  actual := v.Segments64()
  expected := tc.expected
```

```
 if !reflect.DeepEqual(actual, expected) {
  t.Fatalf("expected: %#v\nactual: %#v", expected, actual)
 }

 {
  expected := actual[0]
  actual[0]++
  actual = v.Segments64()
  if actual[0] != expected {
   t.Fatalf("Segments64 is mutable")
  }
 }
}
}

func TestJsonMarshal(t *testing.T) {
 cases := []struct {
  version string
  err     bool
 }{
  {"1.2.3", false},
  {"1.2.0-x.Y.0+metadata", false},
  {"1.2.0-x.Y.0+metadata-width-hyphen", false},
  {"1.2.3-rc1-with-hyphen", false},
  {"1.2.3.4", false},
  {"1.2.0.4-x.Y.0+metadata", false},
  {"1.2.0.4-x.Y.0+metadata-width-hyphen",
 false},
  {"1.2.0-X-1.2.0+metadata~dist", false},
  {"1.2.3.4-rc1-with-hyphen", false},
  {"1.2.3.4", false},
 }

 for _, tc := range cases {
  v, err1 := NewVersion(tc.version)
  if err1 != nil {
   t.Fatalf("error for version %q: %s", tc.version, err1)
  }

  parsed, err2 := json.Marshal(v)
  if err2 != nil {
   t.Fatalf("error marshaling version %q: %s", tc.version, err2)
  }
  result := string(parsed)
  expected := fmt.Sprintf("%q", tc.version)
  if result != expected && !tc.err {
   t.Fatalf("Error marshaling unexpected marshaled content: result=%q expected=%q", result, expected)
  }
```

```
 }
}

func TestJsonUnmarshal(t *testing.T) {
 cases := []struct {
  version string
  err     bool
 }{
  {"1.2.3", false},
  {"1.2.0-x.Y.0+metadata", false},
  {"1.2.0-x.Y.0+metadata-width-hyphen", false},
  {"1.2.3-rc1-with-hyphen", false},
  {"1.2.3.4", false},
  {"1.2.0.4-x.Y.0+metadata", false},
  {"1.2.0.4-x.Y.0+metadata-width-hyphen", false},
  {"1.2.0-X-1.2.0+metadata~dist",
 false},
  {"1.2.3.4-rc1-with-hyphen", false},
  {"1.2.3.4", false},
 }

 for _, tc := range cases {
  expected, err1 := NewVersion(tc.version)
  if err1 != nil {
   t.Fatalf("err: %s", err1)
  }

  actual := &Version{}
  err2 := json.Unmarshal([]byte(fmt.Sprintf("%q", tc.version)), actual)
  if err2 != nil {
   t.Fatalf("error unmarshaling version: %s", err2)
  }
  if !reflect.DeepEqual(actual, expected) {
   t.Fatalf("error unmarshaling, unexpected object content: actual=%q expected=%q", actual, expected)
  }
 }
}

func TestVersionString(t *testing.T) {
 cases := [][]string{
  {"1.2.3", "1.2.3"},
  {"1.2-beta", "1.2.0-beta"},
  {"1.2.0-x.Y.0", "1.2.0-x.Y.0"},
  {"1.2.0-x.Y.0+metadata", "1.2.0-x.Y.0+metadata"},
  {"1.2.0-metadata-1.2.0+metadata~dist", "1.2.0-metadata-1.2.0+metadata~dist"},
  {"17.03.0-ce", "17.3.0-ce"}, // zero-padded fields
 }
```

```
 for _, tc := range cases {
  v, err := NewVersion(tc[0])
  if err != nil {
   t.Fatalf("err: %s", err)
  }

  actual := v.String()
  expected
 := tc[1]
  if actual != expected {
   t.Fatalf("expected: %s\nactual: %s", expected, actual)
  }
  if actual := v.Original(); actual != tc[0] {
   t.Fatalf("expected original: %q\nactual: %q", tc[0], actual)
  }
 }
}

func TestEqual(t *testing.T) {
 cases := []struct {
  v1       string
  v2       string
  expected bool
 }{
  {"1.2.3", "1.4.5", false},
  {"1.2-beta", "1.2-beta", true},
  {"1.2", "1.1.4", false},
  {"1.2", "1.2-beta", false},
  {"1.2+foo", "1.2+beta", true},
  {"v1.2", "v1.2-beta", false},
  {"v1.2+foo", "v1.2+beta", true},
  {"v1.2.3.4", "v1.2.3.4", true},
  {"v1.2.0.0", "v1.2", true},
  {"v1.2.0.0.1", "v1.2", false},
  {"v1.2", "v1.2.0.0", true},
  {"v1.2", "v1.2.0.0.1", false},
  {"v1.2.0.0", "v1.2.0.0.1", false},
  {"v1.2.3.0", "v1.2.3.4", false},
  {"1.7rc2", "1.7rc1", false},
  {"1.7rc2", "1.7", false},
  {"1.2.0", "1.2.0-X-1.2.0+metadata~dist", false},
 }

 for _, tc := range cases {
  v1, err := NewVersion(tc.v1)
  if err != nil {
   t.Fatalf("err:
```

```
%s", err)
 }

 v2, err := NewVersion(tc.v2)
 if err != nil {
  t.Fatalf("err: %s", err)
 }

 actual := v1.Equal(v2)
 expected := tc.expected
 if actual != expected {
  t.Fatalf(
   "%s <=> %s\nexpected: %t\nactual: %t",
   tc.v1, tc.v2,
   expected, actual)
 }
}
}

func TestGreaterThan(t *testing.T) {
 cases := []struct {
  v1       string
  v2       string
  expected bool
 }{
  {"1.2.3", "1.4.5", false},
  {"1.2-beta", "1.2-beta", false},
  {"1.2", "1.1.4", true},
  {"1.2", "1.2-beta", true},
  {"1.2+foo", "1.2+beta", false},
  {"v1.2", "v1.2-beta", true},
  {"v1.2+foo", "v1.2+beta", false},
  {"v1.2.3.4", "v1.2.3.4", false},
  {"v1.2.0.0", "v1.2", false},
  {"v1.2.0.0.1", "v1.2", true},
  {"v1.2", "v1.2.0.0", false},
  {"v1.2", "v1.2.0.0.1", false},
  {"v1.2.0.0", "v1.2.0.0.1", false},
  {"v1.2.3.0", "v1.2.3.4", false},
  {"1.7rc2", "1.7rc1", true},
  {"1.7rc2", "1.7", false},
  {"1.2.0", "1.2.0-X-1.2.0+metadata~dist", true},
 }

 for _, tc := range cases {
  v1,
 err := NewVersion(tc.v1)
  if err != nil {
```

```
  t.Fatalf("err: %s", err)
 }

 v2, err := NewVersion(tc.v2)
 if err != nil {
  t.Fatalf("err: %s", err)
 }

 actual := v1.GreaterThan(v2)
 expected := tc.expected
 if actual != expected {
  t.Fatalf(
   "%s > %s\nexpected: %t\nactual: %t",
   tc.v1, tc.v2,
   expected, actual)
 }
}
}

func TestLessThan(t *testing.T) {
 cases := []struct {
  v1       string
  v2       string
  expected bool
 }{
  {"1.2.3", "1.4.5", true},
  {"1.2-beta", "1.2-beta", false},
  {"1.2", "1.1.4", false},
  {"1.2", "1.2-beta", false},
  {"1.2+foo", "1.2+beta", false},
  {"v1.2", "v1.2-beta", false},
  {"v1.2+foo", "v1.2+beta", false},
  {"v1.2.3.4", "v1.2.3.4", false},
  {"v1.2.0.0", "v1.2", false},
  {"v1.2.0.0.1", "v1.2", false},
  {"v1.2", "v1.2.0.0", false},
  {"v1.2", "v1.2.0.0.1", true},
  {"v1.2.0.0", "v1.2.0.0.1", true},
  {"v1.2.3.0", "v1.2.3.4", true},
  {"1.7rc2", "1.7rc1", false},
  {"1.7rc2", "1.7", true},
  {"1.2.0", "1.2.0-X-1.2.0+metadata~dist",
 false},
 }

 for _, tc := range cases {
  v1, err := NewVersion(tc.v1)
  if err != nil {
```

```
  t.Fatalf("err: %s", err)
 }

 v2, err := NewVersion(tc.v2)
 if err != nil {
  t.Fatalf("err: %s", err)
 }

 actual := v1.LessThan(v2)
 expected := tc.expected
 if actual != expected {
  t.Fatalf(
   "%s < %s\nexpected: %t\nactual: %t",
   tc.v1, tc.v2,
   expected, actual)
 }
}
}

func TestGreaterThanOrEqual(t *testing.T) {
 cases := []struct {
  v1       string
  v2       string
  expected bool
 }{
  {"1.2.3", "1.4.5", false},
  {"1.2-beta", "1.2-beta", true},
  {"1.2", "1.1.4", true},
  {"1.2", "1.2-beta", true},
  {"1.2+foo", "1.2+beta", true},
  {"v1.2", "v1.2-beta", true},
  {"v1.2+foo", "v1.2+beta", true},
  {"v1.2.3.4", "v1.2.3.4", true},
  {"v1.2.0.0", "v1.2", true},
  {"v1.2.0.0.1", "v1.2", true},
  {"v1.2", "v1.2.0.0", true},
  {"v1.2", "v1.2.0.0.1", false},
  {"v1.2.0.0", "v1.2.0.0.1", false},
  {"v1.2.3.0", "v1.2.3.4", false},
  {"1.7rc2", "1.7rc1", true},
  {"1.7rc2",
"1.7", false},
  {"1.2.0", "1.2.0-X-1.2.0+metadata~dist", true},
 }

 for _, tc := range cases {
  v1, err := NewVersion(tc.v1)
  if err != nil {
```

```
  t.Fatalf("err: %s", err)
 }

 v2, err := NewVersion(tc.v2)
 if err != nil {
  t.Fatalf("err: %s", err)
 }

 actual := v1.GreaterThanOrEqual(v2)
 expected := tc.expected
 if actual != expected {
  t.Fatalf(
   "%s >= %s\nexpected: %t\nactual: %t",
   tc.v1, tc.v2,
   expected, actual)
 }
}
}

func TestLessThanOrEqual(t *testing.T) {
 cases := []struct {
  v1       string
  v2       string
  expected bool
 }{
  {"1.2.3", "1.4.5", true},
  {"1.2-beta", "1.2-beta", true},
  {"1.2", "1.1.4", false},
  {"1.2", "1.2-beta", false},
  {"1.2+foo", "1.2+beta", true},
  {"v1.2", "v1.2-beta", false},
  {"v1.2+foo", "v1.2+beta", true},
  {"v1.2.3.4", "v1.2.3.4", true},
  {"v1.2.0.0", "v1.2", true},
  {"v1.2.0.0.1", "v1.2", false},
  {"v1.2", "v1.2.0.0", true},
  {"v1.2", "v1.2.0.0.1", true},
  {"v1.2.0.0", "v1.2.0.0.1", true},
  {"v1.2.3.0",
 "v1.2.3.4", true},
  {"1.7rc2", "1.7rc1", false},
  {"1.7rc2", "1.7", true},
  {"1.2.0", "1.2.0-X-1.2.0+metadata~dist", false},
 }

 for _, tc := range cases {
  v1, err := NewVersion(tc.v1)
  if err != nil {
```

```
  t.Fatalf("err: %s", err)
 }

 v2, err := NewVersion(tc.v2)
 if err != nil {
  t.Fatalf("err: %s", err)
 }

 actual := v1.LessThanOrEqual(v2)
 expected := tc.expected
 if actual != expected {
  t.Fatalf(
   "%s <= %s\nexpected: %t\nactual: %t",
   tc.v1, tc.v2,
   expected, actual)
 }
}
}
```

Data model artifacts for Prometheus.
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1.7.0 (May 24, 2024)

ENHANCEMENTS:

- Remove `reflect` dependency ([#91](https://github.com/hashicorp/go-version/pull/91))
- Implement the `database/sql.Scanner` and `database/sql/driver.Value` interfaces for `Version`
([#133](https://github.com/hashicorp/go-version/pull/133))

INTERNAL:

- [COMPLIANCE] Add Copyright and License Headers ([#115](https://github.com/hashicorp/go-version/pull/115))
- [COMPLIANCE] Update MPL-2.0 LICENSE ([#105](https://github.com/hashicorp/go-version/pull/105))
- Bump actions/cache from 3.0.11 to 3.2.5 ([#116](https://github.com/hashicorp/go-version/pull/116))
- Bump actions/checkout from 3.2.0 to 3.3.0 ([#111](https://github.com/hashicorp/go-version/pull/111))
- Bump actions/upload-artifact from 3.1.1 to 3.1.2 ([#112](https://github.com/hashicorp/go-version/pull/112))
- GHA Migration ([#103](https://github.com/hashicorp/go-version/pull/103))
- github: Pin external GitHub Actions to hashes ([#107](https://github.com/hashicorp/go-version/pull/107))
- SEC-090:

Automated trusted workflow pinning (2023-04-05) ([#124](https://github.com/hashicorp/go-version/pull/124))
- update readme ([#104](https://github.com/hashicorp/go-version/pull/104))

1.6.0 (June 28, 2022)

FEATURES:

- Add `Prerelease` function to `Constraint` to return true if the version includes a prerelease field ([#100](https://github.com/hashicorp/go-version/pull/100))

1.5.0 (May 18, 2022)

FEATURES:

- Use `encoding` `TextMarshaler` & `TextUnmarshaler` instead of JSON equivalents ([#95](https://github.com/hashicorp/go-version/pull/95))
- Add JSON handlers to allow parsing from/to JSON ([#93](https://github.com/hashicorp/go-version/pull/93))

1.4.0 (January 5, 2022)

FEATURES:

- Introduce `MustConstraints()` ([#87](https://github.com/hashicorp/go-version/pull/87))
- `Constraints`: Introduce `Equals()` and `sort.Interface` methods ([#88](https://github.com/hashicorp/go-version/pull/88))

1.3.0 (March 31, 2021)

Please note that CHANGELOG.md does not exist in the source
code prior to this release.

FEATURES:
- Add `Core` function to return a version without prerelease or metadata ([#85](https://github.com/hashicorp/go-version/pull/85))

1.2.1 (June 17, 2020)

BUG FIXES:
- Prevent `Version.Equal` method from panicking on `nil` encounter ([#73](https://github.com/hashicorp/go-version/pull/73))

1.2.0 (April 23, 2019)

FEATURES:
- Add `GreaterThanOrEqual` and `LessThanOrEqual` helper methods ([#53](https://github.com/hashicorp/go-version/pull/53))

1.1.0 (Jan 07, 2019)

FEATURES:
- Add `NewSemver` constructor ([#45](https://github.com/hashicorp/go-version/pull/45))

1.0.0 (August 24, 2018)

Initial release.
procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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package version

import (
 "fmt"
 "regexp"
 "sort"
 "strings"
)

// Constraint represents a single constraint for a version, such as
// ">= 1.0".
type Constraint struct {
 f        constraintFunc
 op       operator
 check    *Version
 original string
}

func (c *Constraint) Equals(con *Constraint) bool {
 return c.op == con.op && c.check.Equal(con.check)
}

// Constraints is a slice of constraints. We make a custom type so that
// we can add methods to it.
type Constraints []*Constraint

type constraintFunc func(v, c *Version) bool

var constraintOperators map[string]constraintOperation

type constraintOperation struct {
 op operator
 f  constraintFunc
}

var constraintRegexp *regexp.Regexp

func init() {
 constraintOperators = map[string]constraintOperation{
  "":   {op: equal, f: constraintEqual},
  "=":  {op: equal, f: constraintEqual},
  "!=": {op: notEqual, f: constraintNotEqual},
```

```
 ">":  {op: greaterThan, f: constraintGreaterThan},
 "<":
 {op: lessThan, f: constraintLessThan},
 ">=": {op: greaterThanEqual, f: constraintGreaterThanEqual},
 "<=": {op: lessThanEqual, f: constraintLessThanEqual},
 "~>": {op: pessimistic, f: constraintPessimistic},
}

ops := make([]string, 0, len(constraintOperators))
for k := range constraintOperators {
 ops = append(ops, regexp.QuoteMeta(k))
}

constraintRegexp = regexp.MustCompile(fmt.Sprintf(
 `^\s*(%s)\s*(%s)\s*$`,
 strings.Join(ops, "|"),
 VersionRegexpRaw))
}

// NewConstraint will parse one or more constraints from the given
// constraint string. The string must be a comma-separated list of
// constraints.
func NewConstraint(v string) (Constraints, error) {
 vs := strings.Split(v, ",")
 result := make([]*Constraint, len(vs))
 for i, single := range vs {
  c, err := parseSingle(single)
  if err != nil {
   return nil, err
  }

  result[i] = c
 }

 return Constraints(result), nil
}

// MustConstraints is a helper that wraps a call to a function
//
 returning (Constraints, error) and panics if error is non-nil.
func MustConstraints(c Constraints, err error) Constraints {
 if err != nil {
  panic(err)
 }

 return c
}
```

```
// Check tests if a version satisfies all the constraints.
func (cs Constraints) Check(v *Version) bool {
 for _, c := range cs {
  if !c.Check(v) {
   return false
  }
 }

 return true
}

// Equals compares Constraints with other Constraints
// for equality. This may not represent logical equivalence
// of compared constraints.
// e.g. even though '>0.1,>0.2' is logically equivalent
// to '>0.2' it is *NOT* treated as equal.
//
// Missing operator is treated as equal to '=', whitespaces
// are ignored and constraints are sorted before comaparison.
func (cs Constraints) Equals(c Constraints) bool {
 if len(cs) != len(c) {
  return false
 }

 // make copies to retain order of the original slices
 left := make(Constraints, len(cs))
 copy(left, cs)
 sort.Stable(left)
 right := make(Constraints, len(c))
 copy(right, c)
 sort.Stable(right)

 //
 compare sorted slices
 for i, con := range left {
  if !con.Equals(right[i]) {
   return false
  }
 }

 return true
}

func (cs Constraints) Len() int {
 return len(cs)
}

func (cs Constraints) Less(i, j int) bool {
```

```
 if cs[i].op < cs[j].op {
  return true
 }
 if cs[i].op > cs[j].op {
  return false
 }

 return cs[i].check.LessThan(cs[j].check)
}

func (cs Constraints) Swap(i, j int) {
 cs[i], cs[j] = cs[j], cs[i]
}

// Returns the string format of the constraints
func (cs Constraints) String() string {
 csStr := make([]string, len(cs))
 for i, c := range cs {
  csStr[i] = c.String()
 }

 return strings.Join(csStr, ",")
}

// Check tests if a constraint is validated by the given version.
func (c *Constraint) Check(v *Version) bool {
 return c.f(v, c.check)
}

// Prerelease returns true if the version underlying this constraint
// contains a prerelease field.
func (c *Constraint) Prerelease() bool {
 return len(c.check.Prerelease()) > 0
}

func (c *Constraint) String()
 string {
 return c.original
}

func parseSingle(v string) (*Constraint, error) {
 matches := constraintRegexp.FindStringSubmatch(v)
 if matches == nil {
  return nil, fmt.Errorf("Malformed constraint: %s", v)
 }

 check, err := NewVersion(matches[2])
 if err != nil {
```

```
 return nil, err
 }

 cop := constraintOperators[matches[1]]

 return &Constraint{
  f:       cop.f,
  op:      cop.op,
  check:   check,
  original: v,
 }, nil
}

func prereleaseCheck(v, c *Version) bool {
 switch vPre, cPre := v.Prerelease() != "", c.Prerelease() != ""; {
 case cPre && vPre:
  // A constraint with a pre-release can only match a pre-release version
  // with the same base segments.
  return v.equalSegments(c)

 case !cPre && vPre:
  // A constraint without a pre-release can only match a version without a
  // pre-release.
  return false

 case cPre && !vPre:
  // OK, except with the pessimistic operator
 case !cPre && !vPre:
  // OK
 }
 return true
}

//-----------------------------------------------------------------
//
 Constraint functions
//-----------------------------------------------------------------

type operator rune

const (
 equal            operator = '='
 notEqual         operator = ''
 greaterThan      operator = '>'
 lessThan         operator = '<'
 greaterThanEqual operator = ''
 lessThanEqual    operator = ''
 pessimistic      operator = '~'
```

```
)

func constraintEqual(v, c *Version) bool {
 return v.Equal(c)
}

func constraintNotEqual(v, c *Version) bool {
 return !v.Equal(c)
}

func constraintGreaterThan(v, c *Version) bool {
 return prereleaseCheck(v, c) && v.Compare(c) == 1
}

func constraintLessThan(v, c *Version) bool {
 return prereleaseCheck(v, c) && v.Compare(c) == -1
}

func constraintGreaterThanEqual(v, c *Version) bool {
 return prereleaseCheck(v, c) && v.Compare(c) >= 0
}

func constraintLessThanEqual(v, c *Version) bool {
 return prereleaseCheck(v, c) && v.Compare(c) <= 0
}

func constraintPessimistic(v, c *Version) bool {
 // Using a pessimistic
 constraint with a pre-release, restricts versions to pre-releases
 if !prereleaseCheck(v, c) || (c.Prerelease() != "" && v.Prerelease() == "") {
  return false
 }

 // If the version being checked is naturally less than the constraint, then there
 // is no way for the version to be valid against the constraint
 if v.LessThan(c) {
  return false
 }
 // We'll use this more than once, so grab the length now so it's a little cleaner
 // to write the later checks
 cs := len(c.segments)

 // If the version being checked has less specificity than the constraint, then there
 // is no way for the version to be valid against the constraint
 if cs > len(v.segments) {
  return false
 }
```

```
 // Check the segments in the constraint against those in the version. If the version
 // being checked, at any point, does not have the same values in each index of the
 // constraints segments, then it cannot be valid against the constraint.
 for i := 0; i < c.si-1; i++ {
  if v.segments[i] != c.segments[i]
 {
   return false
  }
 }

 // Check the last part of the segment in the constraint. If the version segment at
 // this index is less than the constraints segment at this index, then it cannot
 // be valid against the constraint
 if c.segments[cs-1] > v.segments[cs-1] {
  return false
 }

 // If nothing has rejected the version by now, it's valid
 return true
}
version: 2
updates:
 - package-ecosystem: "gomod"
   directory: "/"
   schedule:
     interval: "daily"
   labels: ["dependencies"]

 - package-ecosystem: github-actions
   directory: /
   schedule:
     interval: monthly
   labels:
     - dependencies
   # only update HashiCorp actions, external actions managed by TSCCR
   allow:
     - dependency-name: hashicorp/*
   groups:
     github-actions-breaking:
       update-types:
         - major
     github-actions-backward-compatible:
       update-types:
         - minor
         - patch
Common libraries shared by Prometheus Go components.
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```

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module github.com/hashicorp/go-version
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Files: internal/snapref/*

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```
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package version

import (
 "fmt"
 "reflect"
 "sort"
 "testing"
)

func TestNewConstraint(t *testing.T) {
 cases := []struct {
  input string
  count int
  err   bool
 }{
  {">= 1.2", 1, false},
  {"1.0", 1, false},
  {">= 1.x", 0, true},
  {">= 1.2, < 1.0", 2, false},

  // Out of bounds
  {"1138777878078144567552950000000000000000", 0, true},
 }

 for _, tc := range cases {
  v, err := NewConstraint(tc.input)
  if tc.err && err == nil {
   t.Fatalf("expected error for input: %s", tc.input)
  } else if !tc.err && err != nil {
   t.Fatalf("error for input %s: %s", tc.input, err)
  }

  if len(v) != tc.count {
   t.Fatalf("input: %s\nexpected len: %d\nactual: %d",
    tc.input, tc.count, len(v))
  }
 }
}

func TestConstraintCheck(t *testing.T) {
 cases := []struct {
  constraint string
  version    string
  check      bool
 }{
```

```
 {">= 1.0, < 1.2", "1.1.5", true},
 {"< 1.0, < 1.2", "1.1.5", false},
 {"= 1.0", "1.1.5",
false},
 {"= 1.0", "1.0.0", true},
 {"1.0", "1.0.0", true},
 {"~> 1.0", "2.0", false},
 {"~> 1.0", "1.1", true},
 {"~> 1.0", "1.2.3", true},
 {"~> 1.0.0", "1.2.3", false},
 {"~> 1.0.0", "1.0.7", true},
 {"~> 1.0.0", "1.1.0", false},
 {"~> 1.0.7", "1.0.4", false},
 {"~> 1.0.7", "1.0.7", true},
 {"~> 1.0.7", "1.0.8", true},
 {"~> 1.0.7", "1.0.7.5", true},
 {"~> 1.0.7", "1.0.6.99", false},
 {"~> 1.0.7", "1.0.8.0", true},
 {"~> 1.0.9.5", "1.0.9.5", true},
 {"~> 1.0.9.5", "1.0.9.4", false},
 {"~> 1.0.9.5", "1.0.9.6", true},
 {"~> 1.0.9.5", "1.0.9.5.0", true},
 {"~> 1.0.9.5", "1.0.9.5.1", true},
 {"~> 2.0", "2.1.0-beta", false},
 {"~> 2.1.0-a", "2.2.0", false},
 {"~> 2.1.0-a", "2.1.0", false},
 {"~> 2.1.0-a", "2.1.0-beta", true},
 {"~> 2.1.0-a", "2.2.0-alpha", false},
 {"> 2.0", "2.1.0-beta", false},
 {">= 2.1.0-a", "2.1.0-beta", true},
 {">= 2.1.0-a", "2.1.1-beta", false},
 {">= 2.0.0", "2.1.0-beta", false},
 {">= 2.1.0-a", "2.1.1", true},
 {">= 2.1.0-a", "2.1.1-beta",
false},
 {">= 2.1.0-a", "2.1.0", true},
 {"<= 2.1.0-a", "2.0.0", true},
}

for _, tc := range cases {
 c, err := NewConstraint(tc.constraint)
 if err != nil {
  t.Fatalf("err: %s", err)
 }

 v, err := NewVersion(tc.version)
 if err != nil {
  t.Fatalf("err: %s", err)
```

```
  }

  actual := c.Check(v)
  expected := tc.check
  if actual != expected {
   t.Fatalf("Version: %s\nConstraint: %s\nExpected: %#v",
    tc.version, tc.constraint, expected)
  }
 }
}

func TestConstraintPrerelease(t *testing.T) {
 cases := []struct {
  constraint string
  prerelease bool
 }{
  {"= 1.0", false},
  {"= 1.0-beta", true},
  {"~> 2.1.0", false},
  {"~> 2.1.0-dev", true},
  {"> 2.0", false},
  {">= 2.1.0-a", true},
 }

 for _, tc := range cases {
  c, err := parseSingle(tc.constraint)
  if err != nil {
   t.Fatalf("err: %s", err)
  }

  actual := c.Prerelease()
  expected := tc.prerelease
  if actual != expected {
   t.Fatalf("Constraint: %s\nExpected: %#v",
    tc.constraint, expected)
  }
 }
}

func
 TestConstraintEqual(t *testing.T) {
 cases := []struct {
  leftConstraint  string
  rightConstraint string
  expectedEqual   bool
 }{
  {
   "0.0.1",
```

```
  "0.0.1",
  true,
 },
 { // whitespaces
  " 0.0.1 ",
  "0.0.1",
  true,
 },
 { // equal op implied
  "=0.0.1 ",
  "0.0.1",
  true,
 },
 { // version difference
  "=0.0.1",
  "=0.0.2",
  false,
 },
 { // operator difference
  ">0.0.1",
  "=0.0.1",
  false,
 },
 { // different order
  ">0.1.0, <=1.0.0",
  "<=1.0.0, >0.1.0",
  true,
 },
}

for _, tc := range cases {
 leftCon, err := NewConstraint(tc.leftConstraint)
 if err != nil {
  t.Fatalf("err: %s", err)
 }
 rightCon, err := NewConstraint(tc.rightConstraint)
 if err != nil {
  t.Fatalf("err: %s", err)
 }

 actual := leftCon.Equals(rightCon)
 if actual != tc.expectedEqual {
  t.Fatalf("Constraints: %s vs %s\nExpected: %t\nActual: %t",
   tc.leftConstraint, tc.rightConstraint, tc.expectedEqual, actual)
 }
}
}
```

```
func TestConstraint_sort(t
 *testing.T) {
 cases := []struct {
  constraint          string
  expectedConstraints string
 }{
  {
   ">= 0.1.0,< 1.12",
   "< 1.12,>= 0.1.0",
  },
  {
   "< 1.12,>= 0.1.0",
   "< 1.12,>= 0.1.0",
  },
  {
   "< 1.12,>= 0.1.0,0.2.0",
   "< 1.12,0.2.0,>= 0.1.0",
  },
  {
   ">1.0,>0.1.0,>0.3.0,>0.2.0",
   ">0.1.0,>0.2.0,>0.3.0,>1.0",
  },
 }

 for i, tc := range cases {
  t.Run(fmt.Sprintf("%d", i), func(t *testing.T) {
   c, err := NewConstraint(tc.constraint)
   if err != nil {
    t.Fatalf("err: %s", err)
   }

   sort.Sort(c)

   actual := c.String()

   if !reflect.DeepEqual(actual, tc.expectedConstraints) {
    t.Fatalf("unexpected order\nexpected: %#v\nactual: %#v",
     tc.expectedConstraints, actual)
   }
  })
 }
}

func TestConstraintsString(t *testing.T) {
 cases := []struct {
  constraint string
  result     string
 }{
```

```
 {">= 1.0, < 1.2", ""},
 {"~> 1.0.7", ""},
}

for _, tc := range cases {
 c, err := NewConstraint(tc.constraint)
 if err != nil {
  t.Fatalf("err:
%s", err)
 }

 actual := c.String()
 expected := tc.result
 if expected == "" {
  expected = tc.constraint
 }

 if actual != expected {
  t.Fatalf("Constraint: %s\nExpected: %#v\nActual: %s",
   tc.constraint, expected, actual)
 }
}
}
```

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package version

import (
 "bytes"
 "database/sql/driver"
 "fmt"
 "regexp"
 "strconv"
 "strings"
)

// The compiled regular expression used to test the validity of a version.
var (
 versionRegexp *regexp.Regexp
 semverRegexp  *regexp.Regexp
)

// The raw regular expression string used for testing the validity
// of a version.
const (
 VersionRegexpRaw string = `v?([0-9]+(\.[0-9]+)*?)` +
  `(-([0-9]+[0-9A-Za-z\-~]*(\.[0-9A-Za-z\-~]+)*)|(-?([A-Za-z\-~]+[0-9A-Za-z\-~]*(\.[0-9A-Za-z\-~]+)*)))?` +
  `(\+([0-9A-Za-z\-~]+(\.[0-9A-Za-z\-~]+)*))?` +
  `?`

 // SemverRegexpRaw requires a separator between version and prerelease
 SemverRegexpRaw string = `v?([0-9]+(\.[0-9]+)*?)` +
  `(-([0-9]+[0-9A-Za-z\-~]*(\.[0-9A-Za-z\-~]+)*)|(-([A-Za-z\-~]+[0-9A-Za-z\-~]*(\.[0-9A-Za-z\-~]+)*)))?` +
  `(\+([0-9A-Za-z\-~]+(\.[0-9A-Za-z\-~]+)*))?` +
  `?`
)

// Version represents a single version.
type Version struct {
 metadata string
 pre
   string
 segments []int64
 si       int
 original string
}
```

```
func init() {
 versionRegexp = regexp.MustCompile("^" + VersionRegexpRaw + "$")
 semverRegexp = regexp.MustCompile("^" + SemverRegexpRaw + "$")
}

// NewVersion parses the given version and returns a new
// Version.
func NewVersion(v string) (*Version, error) {
 return newVersion(v, versionRegexp)
}

// NewSemver parses the given version and returns a new
// Version that adheres strictly to SemVer specs
// https://semver.org/
func NewSemver(v string) (*Version, error) {
 return newVersion(v, semverRegexp)
}

func newVersion(v string, pattern *regexp.Regexp) (*Version, error) {
 matches := pattern.FindStringSubmatch(v)
 if matches == nil {
  return nil, fmt.Errorf("Malformed version: %s", v)
 }
 segmentsStr := strings.Split(matches[1], ".")
 segments := make([]int64, len(segmentsStr))
 for i, str := range segmentsStr {
  val, err := strconv.ParseInt(str, 10, 64)
  if err != nil {
   return nil, fmt.Errorf(
    "Error parsing version:
%s", err)
  }

  segments[i] = val
 }

 // Even though we could support more than three segments, if we
 // got less than three, pad it with 0s. This is to cover the basic
 // default usecase of semver, which is MAJOR.MINOR.PATCH at the minimum
 for i := len(segments); i < 3; i++ {
  segments = append(segments, 0)
 }

 pre := matches[7]
 if pre == "" {
  pre = matches[4]
 }
```

```
 return &Version{
  metadata: matches[10],
  pre:      pre,
  segments: segments,
  si:       len(segmentsStr),
  original: v,
 }, nil
}

// Must is a helper that wraps a call to a function returning (*Version, error)
// and panics if error is non-nil.
func Must(v *Version, err error) *Version {
 if err != nil {
  panic(err)
 }

 return v
}

// Compare compares this version to another version. This
// returns -1, 0, or 1 if this version is smaller, equal,
// or larger than the other version, respectively.
//
// If you want boolean results, use the LessThan, Equal,
// GreaterThan, GreaterThanOrEqual or LessThanOrEqual
 methods.
func (v *Version) Compare(other *Version) int {
 // A quick, efficient equality check
 if v.String() == other.String() {
  return 0
 }

 // If the segments are the same, we must compare on prerelease info
 if v.equalSegments(other) {
  preSelf := v.Prerelease()
  preOther := other.Prerelease()
  if preSelf == "" && preOther == "" {
   return 0
  }
  if preSelf == "" {
   return 1
  }
  if preOther == "" {
   return -1
  }

  return comparePrereleases(preSelf, preOther)
```

```
}

segmentsSelf := v.Segments64()
segmentsOther := other.Segments64()
// Get the highest specificity (hS), or if they're equal, just use segmentSelf length
lenSelf := len(segmentsSelf)
lenOther := len(segmentsOther)
hS := lenSelf
if lenSelf < lenOther {
 hS = lenOther
}
// Compare the segments
// Because a constraint could have more/less specificity than the version it's
// checking, we need to account for a lopsided or jagged comparison
for i := 0; i < hS; i++ {
 if i > lenSelf-1 {
  //
This means Self had the lower specificity
  // Check to see if the remaining segments in Other are all zeros
  if !allZero(segmentsOther[i:]) {
   // if not, it means that Other has to be greater than Self
   return -1
  }
  break
 } else if i > lenOther-1 {
  // this means Other had the lower specificity
  // Check to see if the remaining segments in Self are all zeros -
  if !allZero(segmentsSelf[i:]) {
   // if not, it means that Self has to be greater than Other
   return 1
  }
  break
 }
 lhs := segmentsSelf[i]
 rhs := segmentsOther[i]
 if lhs == rhs {
  continue
 } else if lhs < rhs {
  return -1
 }
 // Otherwis, rhs was > lhs, they're not equal
 return 1
}

// if we got this far, they're equal
return 0
}
```

```
func (v *Version) equalSegments(other *Version) bool {
 segmentsSelf := v.Segments64()
 segmentsOther := other.Segments64()

 if len(segmentsSelf) != len(segmentsOther) {
  return false
 }
 for i, v := range segmentsSelf {
  if v != segmentsOther[i]
  {
   return false
  }
 }
 return true
}

func allZero(segs []int64) bool {
 for _, s := range segs {
  if s != 0 {
   return false
  }
 }
 return true
}

func comparePart(preSelf string, preOther string) int {
 if preSelf == preOther {
  return 0
 }

 var selfInt int64
 selfNumeric := true
 selfInt, err := strconv.ParseInt(preSelf, 10, 64)
 if err != nil {
  selfNumeric = false
 }

 var otherInt int64
 otherNumeric := true
 otherInt, err = strconv.ParseInt(preOther, 10, 64)
 if err != nil {
  otherNumeric = false
 }

 // if a part is empty, we use the other to decide
 if preSelf == "" {
  if otherNumeric {
   return -1
```

```
 }
 return 1
}

if preOther == "" {
 if selfNumeric {
  return 1
 }
 return -1
}

if selfNumeric && !otherNumeric {
 return -1
} else if !selfNumeric && otherNumeric {
 return 1
} else if !selfNumeric && !otherNumeric && preSelf > preOther {
 return 1
} else if selfInt > otherInt {
 return 1
}

return -1
}

func comparePrereleases(v string, other string)
 int {
 // the same pre release!
 if v == other {
  return 0
 }

 // split both pre releases for analyse their parts
 selfPreReleaseMeta := strings.Split(v, ".")
 otherPreReleaseMeta := strings.Split(other, ".")

 selfPreReleaseLen := len(selfPreReleaseMeta)
 otherPreReleaseLen := len(otherPreReleaseMeta)

 biggestLen := otherPreReleaseLen
 if selfPreReleaseLen > otherPreReleaseLen {
  biggestLen = selfPreReleaseLen
 }

 // loop for parts to find the first difference
 for i := 0; i < biggestLen; i = i + 1 {
  partSelfPre := ""
  if i < selfPreReleaseLen {
   partSelfPre = selfPreReleaseMeta[i]
```

```
  }

  partOtherPre := ""
  if i < otherPreReleaseLen {
   partOtherPre = otherPreReleaseMeta[i]
  }

  compare := comparePart(partSelfPre, partOtherPre)
  // if parts are equals, continue the loop
  if compare != 0 {
   return compare
  }
 }

 return 0
}

// Core returns a new version constructed from only the MAJOR.MINOR.PATCH
// segments of the version, without prerelease or metadata.
func
 (v *Version) Core() *Version {
 segments := v.Segments64()
 segmentsOnly := fmt.Sprintf("%d.%d.%d", segments[0], segments[1], segments[2])
 return Must(NewVersion(segmentsOnly))
}

// Equal tests if two versions are equal.
func (v *Version) Equal(o *Version) bool {
 if v == nil || o == nil {
  return v == o
 }

 return v.Compare(o) == 0
}

// GreaterThan tests if this version is greater than another version.
func (v *Version) GreaterThan(o *Version) bool {
 return v.Compare(o) > 0
}

// GreaterThanOrEqual tests if this version is greater than or equal to another version.
func (v *Version) GreaterThanOrEqual(o *Version) bool {
 return v.Compare(o) >= 0
}

// LessThan tests if this version is less than another version.
func (v *Version) LessThan(o *Version) bool {
 return v.Compare(o) < 0
```

```
}

// LessThanOrEqual tests if this version is less than or equal to another version.
func (v *Version) LessThanOrEqual(o *Version) bool {
 return v.Compare(o) <= 0
}

// Metadata returns any metadata
 that was part of the version
// string.
//
// Metadata is anything that comes after the "+" in the version.
// For example, with "1.2.3+beta", the metadata is "beta".
func (v *Version) Metadata() string {
 return v.metadata
}

// Prerelease returns any prerelease data that is part of the version,
// or blank if there is no prerelease data.
//
// Prerelease information is anything that comes after the "-" in the
// version (but before any metadata). For example, with "1.2.3-beta",
// the prerelease information is "beta".
func (v *Version) Prerelease() string {
 return v.pre
}

// Segments returns the numeric segments of the version as a slice of ints.
//
// This excludes any metadata or pre-release information. For example,
// for a version "1.2.3-beta", segments will return a slice of
// 1, 2, 3.
func (v *Version) Segments() []int {
 segmentSlice := make([]int, len(v.segments))
 for i, v := range v.segments {
  segmentSlice[i] = int(v)
 }
 return segmentSlice
}

// Segments64 returns the
 numeric segments of the version as a slice of int64s.
//
// This excludes any metadata or pre-release information. For example,
// for a version "1.2.3-beta", segments will return a slice of
// 1, 2, 3.
func (v *Version) Segments64() []int64 {
 result := make([]int64, len(v.segments))
```

```
 copy(result, v.segments)
 return result
}

// String returns the full version string included pre-release
// and metadata information.
//
// This value is rebuilt according to the parsed segments and other
// information. Therefore, ambiguities in the version string such as
// prefixed zeroes (1.04.0 => 1.4.0), `v` prefix (v1.0.0 => 1.0.0), and
// missing parts (1.0 => 1.0.0) will be made into a canonicalized form
// as shown in the parenthesized examples.
func (v *Version) String() string {
 var buf bytes.Buffer
 fmtParts := make([]string, len(v.segments))
 for i, s := range v.segments {
  // We can ignore err here since we've pre-parsed the values in segments
  str := strconv.FormatInt(s, 10)
  fmtParts[i]
 = str
 }
 fmt.Fprintf(&buf, strings.Join(fmtParts, "."))
 if v.pre != "" {
  fmt.Fprintf(&buf, "-%s", v.pre)
 }
 if v.metadata != "" {
  fmt.Fprintf(&buf, "+%s", v.metadata)
 }

 return buf.String()
}

// Original returns the original parsed version as-is, including any
// potential whitespace, `v` prefix, etc.
func (v *Version) Original() string {
 return v.original
}

// UnmarshalText implements encoding.TextUnmarshaler interface.
func (v *Version) UnmarshalText(b []byte) error {
 temp, err := NewVersion(string(b))
 if err != nil {
  return err
 }

 *v = *temp

 return nil
```

```
}

// MarshalText implements encoding.TextMarshaler interface.
func (v *Version) MarshalText() ([]byte, error) {
 return []byte(v.String()), nil
}

// Scan implements the sql.Scanner interface.
func (v *Version) Scan(src interface{}) error {
 switch src := src.(type) {
 case string:
  return v.UnmarshalText([]byte(src))
 case nil:
  return nil
 default:
  return fmt.Errorf("cannot scan %T as Version", src)
 }
}

//
 Value implements the driver.Valuer interface.
func (v *Version) Value() (driver.Value, error) {
 return v.String(), nil
}
```

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1.5707 nginxinc-nginx-prometheus-exporter 1.4.0

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1.5708 grpc-go 1.69.2

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1.5714 charset-normalizer 3.4.1

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1.5715 structured-merge-diff 4.5.0

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1.5716 kube-openapi 0.0.0-20241212222426-2c72e554b1e7

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
```

```
type License struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}
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package spec

import "testing"

func TestIntegrationLicense(t *testing.T) {
 license := License{Name: "the name", URL: "the url"}
 const licenseJSON = `{"name":"the name","url":"the url"}`
 const licenseYAML = "name: the name\nurl: the url\n"

 assertSerializeJSON(t, license, licenseJSON)
 assertParsesJSON(t, licenseJSON, license)
}
```

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1.5717 easyjson 0.9.0

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1.5718 zstd 1.5.6-r2

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1.5719 protobuf 1.36.1

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1.5720 kubernetes-apiserver 0.32.0

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1.5721 container-storage-interface-spec 1.11.0

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procfs provides functions to retrieve system, kernel and process
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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}
```

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1.5725 github.com/jackc/pgservicefile 0.0.0-20240606120523-5a60cdf6a761

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1.5726 get-proto 1.0.1

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1.5727 keyring 25.6.0

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1.5728 expect 5.45.4-r5

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```
# Contributor: Patrycja Rosa <alpine@ptrcnull.me>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=bsd-compat-headers
pkgver=0.7.2
pkgrel=6
pkgdesc="BSD compatibility headers (cdefs, queue, tree)"
url="https://gitlab.alpinelinux.org/alpine/aports"
arch="noarch"
license="BSD-2-Clause AND BSD-3-Clause"
source="
 cdefs.h
 queue.h
 tree.h
"
builddir="$srcdir"
options="!check" # just headers

package() {
 mkdir -p "$pkgdir"
 install -Dm644 -t "$pkgdir"/usr/include/sys \
  cdefs.h queue.h tree.h
}
sha512sums="
37c8fc73c7aea7b490f7850927e2bb91d12137c9e59e22c084146d515696dbc7973b5de92f4c987ba080dd2502ba8312
7006442c3f019b6447a620c0cae73178  cdefs.h
2f0d5e6e4dc3350285cf17009265dddcbe12431c111868eea39bc8cb038ab7c1f2acacbb21735c4e9d4a1fd106a8fc0f86
11ea33987d4faba37dde5ce6da0750  queue.h
d9ac210d81feb8ad2655bc80fb065d3fe20ae4417b32b4a1711e6738a4870140005c13373b5d1846ef3ce5ae6da45f2da
cef2092881eded0a2e94f6a07752ef3  tree.h
"
```

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"X-Splines: A Spline Model Designed for the End User" by C. Blanc and C. Schlick, Proceedings of SIGGRAPH'95
http://dept-info.labri.u-bordeaux.fr/~schlick/DOC/sig1.html

```
# Contributor: Maxim Karasev <begs@disroot.org>
# Maintainer: mio <miyopan@e.email>
pkgname=bsd-games
pkgver=3.3
pkgrel=1
pkgdesc="traditional text mode games from BSD"
url="https://bsd-games.sourceforge.io/"
arch="all"
license="BSD-3-Clause"
install="$pkgname.post-install"
makedepends="ncurses-dev coreutils" # configure causes busybox expr error
subpackages="$pkgname-doc"
source="https://sourceforge.net/projects/bsd-games/files/bsd-games-$pkgver.tar.gz"
options="!check" # no tests

build() {
 # some GNU autoconf options are ignored, but it works
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr \
  --sysconfdir=/etc \
  --mandir=/usr/share/man \
  --localstatedir=/var/lib # it really shouldn't be in /var
 make
}

package() {
 make DESTDIR="$pkgdir" install
```

```
 install -Dm644 LICENSE "$pkgdir"/usr/share/licenses/bsd-games/LICENSE
}

sha512sums="
aaf36d09d4fe68514a5c279063d7e77a9a9a84c447037cba974b29faa07eb80c2aab2379d0699c196b5c27ffe1b2bb2c6
8d3390143e0e62d5e3d210ccfb61294
  bsd-games-3.3.tar.gz
"
```

Expect

Written by: Don Libes, libes at nist.gov, NIST

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dollars. Therefore it is public domain. However, the author and NIST
would appreciate credit if this program or parts of it are used.

```
# Maintainer: fossdd <fossdd@pwned.life>
pkgname=cargo-license
pkgver=0.6.1
pkgrel=1
pkgdesc="Cargo subcommand to see license of dependencies"
url="https://github.com/onur/cargo-license"
arch="all"
license="MIT"
makedepends="cargo cargo-auditable"
source="$pkgname-$pkgver.tar.gz::https://crates.io/api/v1/crates/cargo-license/$pkgver/download"

prepare() {
 default_prepare

 cargo fetch --target="$CTARGET" --locked
}

build() {
 cargo auditable build --release --frozen
}

check() {
 cargo test --frozen
}

package() {
 install -Dm755 target/release/cargo-license -t "$pkgdir"/usr/bin
}

sha512sums="
36215145e79965be090ae2f5ce6f5eb208465eb67a94c26bed1fe70a131c46c6dc35695e30852759b7366883fbc3caf00
272d796ac634f0a5e1d49232b6b29d5  cargo-license-0.6.1.tar.gz
"
```

```
# Contributor: Carlo Landmeter <clandmeter@alpinelinux.org>
# Maintainer: Kevin Daudt <kdaudt@alpinelinux.org>
pkgname=spdx-licenses
pkgver=3.24.0
pkgrel=0
pkgdesc="Various data formats for the SPDX License List"
url="https://spdx.org/"
arch="noarch"
options="!check" # no test suite
license="CC-BY-3.0"
source="license-list-data-$pkgver.tar.gz::https://github.com/spdx/license-list-data/archive/v$pkgver.tar.gz"
builddir="$srcdir/license-list-data-$pkgver"
subpackages="$pkgname-list"

_types="html json rdfa rdfnt rdfturtle rdfxml template text"

for type in $_types; do
 subpackages="$subpackages $pkgname-$type:_subpkg"
done

package() {
 mkdir -p "$pkgdir"
}

_subpkg() {
 local type=${subpkgname/$pkgname-/}
 pkgdesc="$pkgdesc ($type)"
 install_if="$pkgname=$pkgver-r$pkgrel"
 mkdir -p "$subpkgdir"/usr/share/spdx
 cp -r "$builddir"/$type "$subpkgdir"/usr/share/spdx/
}

list() {
 pkgdesc="$pkgdesc (licence list)"
 mkdir -p "$subpkgdir"/usr/share/spdx
 local i; for i in "$builddir"/text/*.txt;
 do
  local license=${i##*/}
  echo ${license%.*} >> "$subpkgdir"/usr/share/spdx/license.lst
 done
}

sha512sums="
6eb81424e1b3173dbd8e17859b2e15dfe1c2af8f4da59b7dad0729c038a4cbdba95c34c2c546285fcdbbd41562e39575e
6a6ebb9463b70121e0a12b99d1307e7  license-list-data-3.24.0.tar.gz
"
```

mini_sendmail - accept email on behalf of real sendmail

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```
# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=8
pkgdesc="A library for high-performance 2D graphics"
url="https://www.levien.com/libart/"
arch="all"
options="!check"  # No test suite.
license="LGPL-2.0-or-later"
subpackages="$pkgname-dev"
source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2
 "

builddir="$srcdir"/libart_lgpl-$pkgver

prepare() {
 update_config_sub
 default_prepare
}

build() {
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
```

```
  --prefix=/usr
 make
}

package() {
 make DESTDIR="$pkgdir" install
}

sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e7
6654309e001aee9bace727b5b4c8589405256a3c020  libart_lgpl-2.3.21.tar.bz2"
```

1.5729 tcl 8.6.15-r0

1.5729.1 Available under license :

```
# Contributor: Patrycja Rosa <alpine@ptrcnull.me>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=bsd-compat-headers
pkgver=0.7.2
pkgrel=6
pkgdesc="BSD compatibility headers (cdefs, queue, tree)"
url="https://gitlab.alpinelinux.org/alpine/aports"
arch="noarch"
license="BSD-2-Clause AND BSD-3-Clause"
source="
 cdefs.h
 queue.h
 tree.h
"
builddir="$srcdir"
options="!check" # just headers

package() {
 mkdir -p "$pkgdir"
 install -Dm644 -t "$pkgdir"/usr/include/sys \
  cdefs.h queue.h tree.h
}
sha512sums="
37c8fc73c7aea7b490f7850927e2bb91d12137c9e59e22c084146d515696dbc7973b5de92f4c987ba080dd2502ba8312
7006442c3f019b6447a620c0cae73178  cdefs.h
2f0d5e6e4dc3350285cf17009265dddcbe12431c111868eea39bc8cb038ab7c1f2acacbb21735c4e9d4a1fd106a8fc0f86
11ea33987d4faba37dde5ce6da0750  queue.h
d9ac210d81feb8ad2655bc80fb065d3fe20ae4417b32b4a1711e6738a4870140005c13373b5d1846ef3ce5ae6da45f2da
cef2092881eded0a2e94f6a07752ef3  tree.h
"
```

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"X-Splines: A Spline Model Designed for the End User" by C. Blanc and C. Schlick, Proceedings of SIGGRAPH'95
http://dept-info.labri.u-bordeaux.fr/~schlick/DOC/sig1.html

```
# Maintainer: fossdd <fossdd@pwned.life>
pkgname=cargo-license
pkgver=0.6.1
pkgrel=1
pkgdesc="Cargo subcommand to see license of dependencies"
url="https://github.com/onur/cargo-license"
arch="all"
license="MIT"
makedepends="cargo cargo-auditable"
source="$pkgname-$pkgver.tar.gz::https://crates.io/api/v1/crates/cargo-license/$pkgver/download"

prepare() {
 default_prepare

 cargo fetch --target="$CTARGET" --locked
}

build() {
 cargo auditable build --release --frozen
}

check() {
 cargo test --frozen
}

package() {
 install -Dm755 target/release/cargo-license -t "$pkgdir"/usr/bin
}

sha512sums="
36215145e79965be090ae2f5ce6f5eb208465eb67a94c26bed1fe70a131c46c6dc35695e30852759b7366883fbc3caf00
272d796ac634f0a5e1d49232b6b29d5  cargo-license-0.6.1.tar.gz
"
```

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```
# Contributor: Dhruvin Gandhi <contact@dhru.vin>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=py3-license-expression
_pkgname=license_expression
pkgver=30.4.0
pkgrel=0
pkgdesc="Library to parse, compare, simplify and normalize license expressions"
url="https://github.com/nexB/license-expression"
arch="noarch"
license="Apache-2.0"
depends="python3 py3-boolean.py"
makedepends="py3-setuptools py3-setuptools_scm py3-gpep517 py3-wheel"
```

```
checkdepends="py3-pytest py3-pytest-xdist"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/l/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir/$_pkgname-$pkgver"

build() {
 gpep517 build-wheel \
  --wheel-dir .dist \
  --output-fd 3 3>&1 >&2
}

check() {
 python3 -m venv --clear --without-pip --system-site-packages .testenv
 .testenv/bin/python3 -m installer .dist/*.whl
 .testenv/bin/python3 -m pytest
}

package() {
 python3 -m installer -d "$pkgdir" \
  .dist/*.whl
}

sha512sums="
cc7cd6b5bd8ea4c99b66f074871ffd7cc78b3e8b1b0d3afd9b95efdb7147c8293db2fac977d684fc34d3d60bd79066a06
dc2bff0a38b130d9d83c63538502db1
  license_expression-30.4.0.tar.gz
"
```

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mini_sendmail - accept email on behalf of real sendmail

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```
# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=8
pkgdesc="A library for high-performance 2D graphics"
url="https://www.levien.com/libart/"
arch="all"
options="!check"  # No test suite.
license="LGPL-2.0-or-later"
subpackages="$pkgname-dev"
source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2
 "

builddir="$srcdir"/libart_lgpl-$pkgver

prepare() {
 update_config_sub
 default_prepare
}

build() {
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr
 make
```

```
}

package() {
 make DESTDIR="$pkgdir" install
}

sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e7
6654309e001aee9bace727b5b4c8589405256a3c020  libart_lgpl-2.3.21.tar.bz2"
```

1.5730 iputils-clockdiff 20240905-r0

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1.5732 drill 1.8.4-r0

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1.5733 libproc2 4.0.4-r2

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Bostley, P.J.
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Boyce, Keith Garry
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The following people have worked to translate sudo into other languages as part of the Translation Project, see https://translationproject.org for more details.

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The following people designed the artwork used on the sudo website:

Shield logo: Badger, Trent
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1.5737 protobuf-c 1.5.0-r2

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1.5738 alpine-baselayout 3.6.8-r1

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1.5741 spring-boot 3.3.0

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1.5742 cffi 1.17.1

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1.5743 mockito-junit-jupiter 5.11.0

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1.5744 jackson-datatype-guava 2.17.1

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1.5745 micrometer-observation 1.13.0

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1.5746 asm-commons 9.7

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  * Constructs a new {@link AnnotationRemapper}. <i>Subclasses must not use this constructor</i>.
  * Instead, they must use the {@link #AnnotationRemapper(int,String,AnnotationVisitor,Remapper)}
  * version.
  *
  * @param descriptor the descriptor of the
 visited annotation. May be {@literal null}.
  * @param annotationVisitor the annotation visitor this remapper must delegate to.
  * @param remapper the remapper to use to remap the types in the visited annotation.
  */
```

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/**
  * Constructs a new {@link LocalVariablesSorter}. <i>Subclasses must not use this constructor</i>.
  * Instead, they must use the {@link #LocalVariablesSorter(int, int, String, MethodVisitor)}
  * version.
  *
  * @param access access flags of the adapted
 method.
  * @param descriptor the method's descriptor (see {@link Type}).
  * @param methodVisitor the method visitor to which this adapter delegates calls.
  * @throws IllegalStateException if a subclass calls this constructor.
  */
```

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/**
  * Constructs a new {@link SerialVersionUIDAdder}. Subclasses must not use this
  * constructor. Instead, they must use the {@link #SerialVersionUIDAdder(int, ClassVisitor)}
  * version.
  *
  * @param classVisitor a {@link ClassVisitor} to which
 this visitor will delegate calls.
  * @throws IllegalStateException If a subclass calls this constructor.
  */

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  * Constructs a new {@link GeneratorAdapter}. <i>Subclasses must not use this constructor</i>.
  * Instead, they must use the {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
  * version.
  *
  * @param methodVisitor the method visitor
 to which this adapter delegates calls.
  * @param access the method's access flags (see {@link Opcodes}).
  * @param name the method's name.
  * @param descriptor the method's descriptor (see {@link Type}).
  * @throws IllegalStateException if a subclass calls this constructor.
  */
```

Found in path(s):
* /opt/cola/permits/2308610340_1736174916.7689145/0/asm-commons-9-7-sources-3-jar/org/objectweb/asm/commons/GeneratorAdapter.java

1.5747 annotations 13.0

1.5747.1 Available under license :

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* /opt/cola/permits/2308610419_1736174881.429713/0/annotations-13-0-sources-6-jar/org/intellij/lang/annotations/Pattern.java
* /opt/cola/permits/2308610419_1736174881.429713/0/annotations-13-0-sources-6-jar/org/intellij/lang/annotations/PrintFormat.java

* /opt/cola/permits/2308610419_1736174881.429713/0/annotations-13-0-sources-6-jar/org/intellij/lang/annotations/RegExp.java
*
 /opt/cola/permits/2308610419_1736174881.429713/0/annotations-13-0-sources-6-jar/org/intellij/lang/annotations/Subst.java
* /opt/cola/permits/2308610419_1736174881.429713/0/annotations-13-0-sources-6-jar/org/intellij/lang/annotations/Identifier.java
* /opt/cola/permits/2308610419_1736174881.429713/0/annotations-13-0-sources-6-jar/org/intellij/lang/annotations/Language.java
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* /opt/cola/permits/2308610419_1736174881.429713/0/annotations-13-0-sources-6-jar/org/jetbrains/annotations/NotNull.java
* /opt/cola/permits/2308610419_1736174881.429713/0/annotations-13-0-sources-6-jar/org/jetbrains/annotations/TestOnly.java
* /opt/cola/permits/2308610419_1736174881.429713/0/annotations-13-0-sources-6-jar/org/intellij/lang/annotations/MagicConstant.java
*
 /opt/cola/permits/2308610419_1736174881.429713/0/annotations-13-0-sources-6-jar/org/intellij/lang/annotations/JdkConstants.java
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* /opt/cola/permits/2308610419_1736174881.429713/0/annotations-13-0-sources-6-jar/org/jetbrains/annotations/Contract.java
* /opt/cola/permits/2308610419_1736174881.429713/0/annotations-13-0-sources-6-jar/org/intellij/lang/annotations/Flow.java
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* /opt/cola/permits/2308610419_1736174881.429713/0/annotations-13-0-sources-6-jar/org/jetbrains/annotations/Nullable.java
* /opt/cola/permits/2308610419_1736174881.429713/0/annotations-13-0-sources-6-jar/org/jetbrains/annotations/Nls.java
* /opt/cola/permits/2308610419_1736174881.429713/0/annotations-13-0-sources-6-jar/org/jetbrains/annotations/PropertyKey.java
* /opt/cola/permits/2308610419_1736174881.429713/0/annotations-13-0-sources-6-jar/org/jetbrains/annotations/NonNls.java

1.5748 jetty-util 12.0.9

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/*

* @(#)UnixCrypt.java 0.9 96/11/25
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* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/ManifestUtils.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/resource/PathResourceFactory.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/statistic/RateCounter.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/thread/package-info.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/AbstractTrie.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/statistic/CounterStatistic.java
*
 /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/thread/MonitoredQueuedThreadPool.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/thread/TimerScheduler.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/annotation/ManagedOperation.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/resource/PathResource.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/Index.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/MultiPartWriter.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/annotation/ManagedAttribute.java
*

/opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/Attributes.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/ClassMatcher.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/RolloverFileOutputStream.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/Attachable.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/thread/ThreadPoolBudget.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/thread/QueuedThreadPool.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/component/FileDestroyable.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/resource/ResourceFactoryInternals.java
*
/opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/component/FileNoticeLifeCycleListener.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/InetAddressPattern.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/compression/InflaterPool.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/ssl/SniX509ExtendedKeyManager.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/thread/ThreadIdPool.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/thread/strategy/ProduceConsume.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/ssl/package-info.java
*
/opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/thread/ThreadPool.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/package-info.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/ConcurrentPool.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/preventers/package-info.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/Fields.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/preventers/DriverManagerLeakPreventer.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/component/package-info.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/resource/PathCollators.java

*
/opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/Scanner.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/QuotedStringTokenizer.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/thread/PrivilegedThreadFactory.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/DateCache.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/security/SecurityUtils.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/CountingCallback.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/InetAddressSet.java
*
/opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/resource/ResourceCollators.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/CompletableTask.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/JavaVersion.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/statistic/SampleStatistic.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/component/StopLifeCycle.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/ssl/AliasedX509ExtendedKeyManager.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/EmptyTrie.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/component/DumpableAttributes.java
*
/opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/component/LifeCycle.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/security/CertificateValidator.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/Uptime.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/ArrayTernaryTrie.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/ExceptionUtil.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/RegexSet.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/AsciiLowerCaseSet.java
*

/opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/MultiPartOutputStream.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/IncludeExcludeSet.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/BlockingArrayQueue.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/Loader.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/IncludeExclude.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/ByteArrayISO8859Writer.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/Callback.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/resource/URLResourceFactory.java
*
/opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/component/Graceful.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/ProcessorUtils.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/component/Destroyable.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/thread/ScheduledExecutorScheduler.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/ssl/SslContextFactory.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/FuturePromise.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/LazyList.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/resource/Resource.java
*
/opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/resource/MountedPathResource.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/StaticException.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/Atomics.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/component/Container.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/FileID.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/security/Password.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/thread/ShutdownThread.java

*
 /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/thread/strategy/EatWhatYouKill.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/thread/strategy/ProduceExecuteConsume.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/resource/MemoryResource.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/ServiceLoaderSpliterator.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/RFC9110QuotedStringTokenizer.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/annotation/ManagedObject.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/CharsetStringBuilder.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/PidFile.java
*
 /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/compression/CompressionPool.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/resource/CombinedResource.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/component/ClassLoaderDump.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/security/package-info.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/IteratingNestedCallback.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/TypeUtil.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/resource/AttributeNormalizer.java
*
 /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/ConstantThrowable.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/Jetty.java
* /opt/cola/permits/2308610169_1736174995.6551425/0/jetty-util-12-0-9-sources-1-jar/org/eclipse/jetty/util/thread/Sweeper.java
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/**
* Ensures serial invocation of submitted tasks.
*
* The {@link InvocationType} of the {@link Runnable} returned from this class is
* always {@link InvocationType#BLOCKING} since a blocking task may be added to the queue
* at any time.
*
* This class was inspired by the public domain class
* NonBlockingMutexExecutor
*
*/

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1.5750 byte-buddy 1.14.16

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Found in path(s):
* /opt/cola/permits/2308610109_1736174975.5494864/0/jetty-ee10-servlet-12-0-9-sources-1-jar/org/eclipse/jetty/ee10/servlet/security/ConstraintSecurityHandler.java

1.5752 jetty-security 12.0.9

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Found in path(s):
* /opt/cola/permits/2308610254_1736174782.446193/0/jetty-security-12-0-9-sources-1-jar/org/eclipse/jetty/security/JDBCLoginService.java
* /opt/cola/permits/2308610254_1736174782.446193/0/jetty-security-12-0-9-sources-1-jar/org/eclipse/jetty/security/jaas/JAASRole.java
* /opt/cola/permits/2308610254_1736174782.446193/0/jetty-security-12-0-9-sources-1-jar/org/eclipse/jetty/security/jaas/spi/LdapLoginModule.java
* /opt/cola/permits/2308610254_1736174782.446193/0/jetty-security-12-0-9-sources-1-jar/org/eclipse/jetty/security/jaas/JAASPrincipal.java
* /opt/cola/permits/2308610254_1736174782.446193/0/jetty-security-12-0-9-sources-1-jar/org/eclipse/jetty/security/jaas/callback/ObjectCallback.java
* /opt/cola/permits/2308610254_1736174782.446193/0/jetty-security-12-0-9-sources-1-jar/org/eclipse/jetty/security/authentication/package-info.java
* /opt/cola/permits/2308610254_1736174782.446193/0/jetty-security-12-0-9-sources-1-jar/org/eclipse/jetty/security/internal/DeferredAuthenticationState.java
* /opt/cola/permits/2308610254_1736174782.446193/0/jetty-security-12-0-9-sources-1-jar/org/eclipse/jetty/security/jaas/JAASUserPrincipal.java
* /opt/cola/permits/2308610254_1736174782.446193/0/jetty-security-12-0-9-sources-1-jar/org/eclipse/jetty/security/jaas/spi/AbstractDatabaseLoginModule.java
* /opt/cola/permits/2308610254_1736174782.446193/0/jetty-security-12-0-9-sources-1-jar/org/eclipse/jetty/security/authentication/SPNEGOAuthenticator.java
* /opt/cola/permits/2308610254_1736174782.446193/0/jetty-security-12-0-9-sources-1-jar/org/eclipse/jetty/security/jaas/spi/DataSourceLoginModule.java
* /opt/cola/permits/2308610254_1736174782.446193/0/jetty-security-12-0-9-sources-1-jar/module-info.java
* /opt/cola/permits/2308610254_1736174782.446193/0/jetty-security-12-0-9-sources-1-jar/org/eclipse/jetty/security/jaas/PropertyUserStoreManager.java
* /opt/cola/permits/2308610254_1736174782.446193/0/jetty-security-12-0-9-sources-1-jar/org/eclipse/jetty/security/authentication/SslClientCertAuthenticator.java
* /opt/cola/permits/2308610254_1736174782.446193/0/jetty-security-12-0-9-sources-1-jar/org/eclipse/jetty/security/jaas/package-info.java
* /opt/cola/permits/2308610254_1736174782.446193/0/jetty-security-12-0-9-sources-1-jar/org/eclipse/jetty/security/IdentityService.java
* /opt/cola/permits/2308610254_1736174782.446193/0/jetty-security-12-0-9-sources-1-jar/org/eclipse/jetty/security/SPNEGOLoginService.java
* /opt/cola/permits/2308610254_1736174782.446193/0/jetty-security-12-0-9-sources-1-jar/org/eclipse/jetty/security/authentication/DigestAuthenticator.java
* /opt/cola/permits/2308610254_1736174782.446193/0/jetty-security-12-0-9-sources-1-jar/org/eclipse/jetty/security/SecurityHandler.java
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/opt/cola/permits/2308610254_1736174782.446193/0/jetty-security-12-0-9-sources-1-jar/org/eclipse/jetty/security/RoleDelegateUserIdentity.java
* /opt/cola/permits/2308610254_1736174782.446193/0/jetty-security-12-0-9-sources-1-jar/org/eclipse/jetty/security/jaas/callback/DefaultCallbackHandler.java
* /opt/cola/permits/2308610254_1736174782.446193/0/jetty-security-12-0-9-sources-1-jar/org/eclipse/jetty/security/ServerAuthException.java
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* /opt/cola/permits/2308610254_1736174782.446193/0/jetty-security-12-0-9-sources-1-jar/org/eclipse/jetty/security/AbstractLoginService.java
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/opt/cola/permits/2308610254_1736174782.446193/0/jetty-security-12-0-9-sources-1-jar/org/eclipse/jetty/security/EmptyLoginService.java
* /opt/cola/permits/2308610254_1736174782.446193/0/jetty-security-12-0-9-sources-1-jar/org/eclipse/jetty/security/DefaultAuthenticatorFactory.java
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* /opt/cola/permits/2308610254_1736174782.446193/0/jetty-security-12-0-9-sources-1-jar/org/eclipse/jetty/security/jaas/callback/package-info.java
* /opt/cola/permits/2308610254_1736174782.446193/0/jetty-security-12-0-9-sources-1-jar/org/eclipse/jetty/security/authentication/LoginAuthenticator.java
* /opt/cola/permits/2308610254_1736174782.446193/0/jetty-security-12-0-9-sources-1-jar/org/eclipse/jetty/security/package-info.java
* /opt/cola/permits/2308610254_1736174782.446193/0/jetty-security-12-0-9-sources-1-jar/org/eclipse/jetty/security/authentication/SessionAuthentication.java
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/opt/cola/permits/2308610254_1736174782.446193/0/jetty-security-12-0-9-sources-1-jar/org/eclipse/jetty/security/AuthenticationState.java
* /opt/cola/permits/2308610254_1736174782.446193/0/jetty-security-12-0-9-sources-1-jar/org/eclipse/jetty/security/HashLoginService.java
* /opt/cola/permits/2308610254_1736174782.446193/0/jetty-security-12-0-9-sources-1-jar/org/eclipse/jetty/security/internal/RoleRunAsToken.java
* /opt/cola/permits/2308610254_1736174782.446193/0/jetty-security-12-0-9-sources-1-jar/org/eclipse/jetty/security/Constraint.java
* /opt/cola/permits/2308610254_1736174782.446193/0/jetty-security-12-0-9-sources-1-jar/org/eclipse/jetty/security/UserIdentity.java
* /opt/cola/permits/2308610254_1736174782.446193/0/jetty-security-12-0-9-sources-1-jar/org/eclipse/jetty/security/jaas/callback/RequestCallback.java
* /opt/cola/permits/2308610254_1736174782.446193/0/jetty-security-12-0-9-sources-1-jar/org/eclipse/jetty/security/jaas/callback/RequestParameterCallback.java
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/opt/cola/permits/2308610254_1736174782.446193/0/jetty-security-12-0-9-sources-1-jar/org/eclipse/jetty/security/jaas/callback/AbstractCallbackHandler.java
* /opt/cola/permits/2308610254_1736174782.446193/0/jetty-security-12-0-9-sources-1-

jar/org/eclipse/jetty/security/LoginService.java
* /opt/cola/permits/2308610254_1736174782.446193/0/jetty-security-12-0-9-sources-1-jar/org/eclipse/jetty/security/DefaultIdentityService.java
* /opt/cola/permits/2308610254_1736174782.446193/0/jetty-security-12-0-9-sources-1-jar/org/eclipse/jetty/security/PropertyUserStore.java
* /opt/cola/permits/2308610254_1736174782.446193/0/jetty-security-12-0-9-sources-1-jar/org/eclipse/jetty/security/UserPrincipal.java
* /opt/cola/permits/2308610254_1736174782.446193/0/jetty-security-12-0-9-sources-1-jar/org/eclipse/jetty/security/RolePrincipal.java
* /opt/cola/permits/2308610254_1736174782.446193/0/jetty-security-12-0-9-sources-1-jar/org/eclipse/jetty/security/authentication/FormAuthenticator.java
*
/opt/cola/permits/2308610254_1736174782.446193/0/jetty-security-12-0-9-sources-1-jar/org/eclipse/jetty/security/internal/DefaultUserIdentity.java
* /opt/cola/permits/2308610254_1736174782.446193/0/jetty-security-12-0-9-sources-1-jar/org/eclipse/jetty/security/jaas/spi/PropertyFileLoginModule.java
* /opt/cola/permits/2308610254_1736174782.446193/0/jetty-security-12-0-9-sources-1-jar/org/eclipse/jetty/security/UserStore.java
* /opt/cola/permits/2308610254_1736174782.446193/0/jetty-security-12-0-9-sources-1-jar/org/eclipse/jetty/security/Authenticator.java
* /opt/cola/permits/2308610254_1736174782.446193/0/jetty-security-12-0-9-sources-1-jar/org/eclipse/jetty/security/jaas/spi/AbstractLoginModule.java
* /opt/cola/permits/2308610254_1736174782.446193/0/jetty-security-12-0-9-sources-1-jar/org/eclipse/jetty/security/authentication/BasicAuthenticator.java

1.5753 jetty-session 12.0.9

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Found in path(s):
* /opt/cola/permits/2308610352_1736174684.8976395/0/jetty-session-12-0-9-sources-1-jar/org/eclipse/jetty/session/DefaultSessionCacheFactory.java
* /opt/cola/permits/2308610352_1736174684.8976395/0/jetty-session-12-0-9-sources-1-jar/module-info.java
* /opt/cola/permits/2308610352_1736174684.8976395/0/jetty-session-12-0-9-sources-1-jar/org/eclipse/jetty/session/NullSessionCacheFactory.java
* /opt/cola/permits/2308610352_1736174684.8976395/0/jetty-session-12-0-9-sources-1-jar/org/eclipse/jetty/session/SessionInactivityTimer.java
* /opt/cola/permits/2308610352_1736174684.8976395/0/jetty-session-12-0-9-sources-1-jar/org/eclipse/jetty/session/DefaultSessionIdManager.java
* /opt/cola/permits/2308610352_1736174684.8976395/0/jetty-session-12-0-9-sources-1-jar/org/eclipse/jetty/session/NullSessionCache.java
*

/opt/cola/permits/2308610352_1736174684.8976395/0/jetty-session-12-0-9-sources-1-jar/org/eclipse/jetty/session/AbstractSessionDataStore.java
* /opt/cola/permits/2308610352_1736174684.8976395/0/jetty-session-12-0-9-sources-1-jar/org/eclipse/jetty/session/HouseKeeper.java
* /opt/cola/permits/2308610352_1736174684.8976395/0/jetty-session-12-0-9-sources-1-jar/org/eclipse/jetty/session/SessionDataStoreFactory.java
* /opt/cola/permits/2308610352_1736174684.8976395/0/jetty-session-12-0-9-sources-1-jar/org/eclipse/jetty/session/SessionHandler.java
* /opt/cola/permits/2308610352_1736174684.8976395/0/jetty-session-12-0-9-sources-1-jar/org/eclipse/jetty/session/NullSessionDataStore.java
* /opt/cola/permits/2308610352_1736174684.8976395/0/jetty-session-12-0-9-sources-1-jar/org/eclipse/jetty/session/AbstractSessionCache.java
* /opt/cola/permits/2308610352_1736174684.8976395/0/jetty-session-12-0-9-sources-1-jar/org/eclipse/jetty/session/AbstractSessionCacheFactory.java
*
/opt/cola/permits/2308610352_1736174684.8976395/0/jetty-session-12-0-9-sources-1-jar/org/eclipse/jetty/session/SessionDataMapFactory.java
* /opt/cola/permits/2308610352_1736174684.8976395/0/jetty-session-12-0-9-sources-1-jar/org/eclipse/jetty/session/CachingSessionDataStore.java
* /opt/cola/permits/2308610352_1736174684.8976395/0/jetty-session-12-0-9-sources-1-jar/org/eclipse/jetty/session/JDBCSessionDataStoreFactory.java
* /opt/cola/permits/2308610352_1736174684.8976395/0/jetty-session-12-0-9-sources-1-jar/org/eclipse/jetty/session/package-info.java
* /opt/cola/permits/2308610352_1736174684.8976395/0/jetty-session-12-0-9-sources-1-jar/org/eclipse/jetty/session/FileSessionDataStore.java
* /opt/cola/permits/2308610352_1736174684.8976395/0/jetty-session-12-0-9-sources-1-jar/org/eclipse/jetty/session/SessionCacheFactory.java
* /opt/cola/permits/2308610352_1736174684.8976395/0/jetty-session-12-0-9-sources-1-jar/org/eclipse/jetty/session/AbstractSessionDataStoreFactory.java
*
/opt/cola/permits/2308610352_1736174684.8976395/0/jetty-session-12-0-9-sources-1-jar/org/eclipse/jetty/session/SessionDataStore.java
* /opt/cola/permits/2308610352_1736174684.8976395/0/jetty-session-12-0-9-sources-1-jar/org/eclipse/jetty/session/SessionDataMap.java
* /opt/cola/permits/2308610352_1736174684.8976395/0/jetty-session-12-0-9-sources-1-jar/org/eclipse/jetty/session/SessionConfig.java
* /opt/cola/permits/2308610352_1736174684.8976395/0/jetty-session-12-0-9-sources-1-jar/org/eclipse/jetty/session/DatabaseAdaptor.java
* /opt/cola/permits/2308610352_1736174684.8976395/0/jetty-session-12-0-9-sources-1-jar/org/eclipse/jetty/session/ObjectStreamSessionDataStore.java
* /opt/cola/permits/2308610352_1736174684.8976395/0/jetty-session-12-0-9-sources-1-jar/org/eclipse/jetty/session/SessionCache.java
* /opt/cola/permits/2308610352_1736174684.8976395/0/jetty-session-12-0-9-sources-1-jar/org/eclipse/jetty/session/FileSessionDataStoreFactory.java
*
/opt/cola/permits/2308610352_1736174684.8976395/0/jetty-session-12-0-9-sources-1-jar/org/eclipse/jetty/session/JDBCSessionDataStore.java
* /opt/cola/permits/2308610352_1736174684.8976395/0/jetty-session-12-0-9-sources-1-

jar/org/eclipse/jetty/session/SessionData.java
* /opt/cola/permits/2308610352_1736174684.8976395/0/jetty-session-12-0-9-sources-1-jar/org/eclipse/jetty/session/NullSessionDataStoreFactory.java
* /opt/cola/permits/2308610352_1736174684.8976395/0/jetty-session-12-0-9-sources-1-jar/org/eclipse/jetty/session/ManagedSession.java
* /opt/cola/permits/2308610352_1736174684.8976395/0/jetty-session-12-0-9-sources-1-jar/org/eclipse/jetty/session/UnwriteableSessionDataException.java
* /opt/cola/permits/2308610352_1736174684.8976395/0/jetty-session-12-0-9-sources-1-jar/org/eclipse/jetty/session/SessionContext.java
* /opt/cola/permits/2308610352_1736174684.8976395/0/jetty-session-12-0-9-sources-1-jar/org/eclipse/jetty/session/AbstractSessionManager.java
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/opt/cola/permits/2308610352_1736174684.8976395/0/jetty-session-12-0-9-sources-1-jar/org/eclipse/jetty/session/SessionManager.java
* /opt/cola/permits/2308610352_1736174684.8976395/0/jetty-session-12-0-9-sources-1-jar/org/eclipse/jetty/session/CachingSessionDataStoreFactory.java
* /opt/cola/permits/2308610352_1736174684.8976395/0/jetty-session-12-0-9-sources-1-jar/org/eclipse/jetty/session/DefaultSessionCache.java
* /opt/cola/permits/2308610352_1736174684.8976395/0/jetty-session-12-0-9-sources-1-jar/org/eclipse/jetty/session/UnreadableSessionDataException.java
* /opt/cola/permits/2308610352_1736174684.8976395/0/jetty-session-12-0-9-sources-1-jar/org/eclipse/jetty/session/SessionIdManager.java

1.5754 junit-jupiter 5.11.0

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1.5755 prometheus-metrics-shaded-protobuf 1.2.1

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1.5756 prometheus-metrics-tracer-common 1.2.1

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* /opt/cola/permits/2308614767_1736175939.6787717/0/prometheus-metrics-tracer-common-1-2-1-jar/META-INF/maven/io.prometheus/prometheus-metrics-tracer-common/pom.xml
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Manifest-Version: 1.0
Automatic-Module-Name: io.prometheus.metrics.tracer.common
Bnd-LastModified: 1712263752680
Build-Jdk: 21.0.2
Built-By: fabian
Bundle-Description: Common Module for Prometheus integrations with distr
ibuted tracing libraries.
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Prometheus Metrics Tracer Common
Bundle-SymbolicName: io.prometheus.metrics-tracer-common
Bundle-Version: 1.2.1
Created-By: Apache Maven Bundle Plugin
Export-Package: io.prometheus.metrics.tracer.common;version="1.2.1"
Tool: Bnd-2.1.0.20130426-122213

Found in path(s):
* /opt/cola/permits/2308614767_1736175939.6787717/0/prometheus-metrics-tracer-common-1-2-1-jar/META-INF/MANIFEST.MF

1.5757 prometheus-metrics-exposition-formats 1.2.1

1.5757.1 Available under license :

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```
Manifest-Version: 1.0
Automatic-Module-Name: io.prometheus.metrics.expositionformats
Bnd-LastModified: 1712263813678
Build-Jdk: 21.0.2
Built-By: fabian
Bundle-Description: Prometheus exposition formats.
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Prometheus Metrics Exposition Formats
Bundle-SymbolicName: io.prometheus.metrics-exposition-formats
Bundle-Version: 1.2.1
Created-By: Apache Maven Bundle Plugin
Export-Package: io.prometheus.metrics.expositionformats;uses:="io.promet
heus.metrics.config,io.prometheus.metrics.expositionformats.generated.c
om_google_protobuf_3_25_3,io.prometheus.metrics.model.snapshots";versio
n="1.2.1",io.prometheus.metrics.expositionformats.generated.com_google_
protobuf_3_25_3;uses:="io.prometheus.metrics.shaded.com_google_protobuf
_3_25_3";version="1.2.1"
Import-Package: io.prometheus.metrics.config;version="[1.2,2)",io.promet
 heus.metrics.model.snapshots;version="[1.2,2)",io.prometheus.metrics.sh
aded.com_google_protobuf_3_25_3
Tool: Bnd-2.1.0.20130426-122213
```

Found in path(s):
* /opt/cola/permits/2308613321_1736174899.468783/0/prometheus-metrics-exposition-formats-1-2-1-jar/META-INF/MANIFEST.MF
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1.5758 jackson-dataformat-cbor 2.17.2

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1.5759 jackson-module-parameter-names 2.17.2

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1.5760 jctools-core 4.0.5

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Manifest-Version: 1.0
Bnd-LastModified: 1717253512851
Build-Jdk-Spec: 1.8
Bundle-Description: Java Concurrency Tools Core Library

Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Java Concurrency Tools Core Library
Bundle-SymbolicName: org.jctools.core
Bundle-Version: 4.0.5
Created-By: Apache Maven Bundle Plugin 5.1.8
Export-Package: org.jctools.maps;version="4.0.5",org.jctools.util;vers
ion="4.0.5";uses:="sun.misc",org.jctools.queues;version="4.0.5",org.j
ctools.queues.atomic;version="4.0.5";uses:="org.jctools.queues",org.j
ctools.queues.atomic.unpadded;version="4.0.5";uses:="org.jctools.queu
es",org.jctools.queues.unpadded;version="4.0.5";uses:="org.jctools.qu
eues",org.jctools.counters;version="4.0.5"
Import-Package: sun.misc;resolution:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
*
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1.5761 prometheus-metrics-config 1.2.1

1.5761.1 Available under license :

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Manifest-Version: 1.0
Automatic-Module-Name: io.prometheus.metrics.config
Bnd-LastModified: 1712263740818
Build-Jdk: 21.0.2
Built-By: fabian
Bundle-Description: Configuration for Prometheus metrics and exposition
formats.
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Prometheus Metrics Config
Bundle-SymbolicName: io.prometheus.metrics-config
Bundle-Version: 1.2.1
Created-By: Apache Maven Bundle Plugin
Export-Package: io.prometheus.metrics.config;version="1.2.1"

Tool: Bnd-2.1.0.20130426-122213

Found in path(s):
* /opt/cola/permits/2308614529_1736175963.061038/0/prometheus-metrics-config-1-2-1-jar/META-INF/MANIFEST.MF
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Found in path(s):
* /opt/cola/permits/2308614529_1736175963.061038/0/prometheus-metrics-config-1-2-1-jar/META-INF/maven/io.prometheus/prometheus-metrics-config/pom.xml

1.5762 prometheus-metrics-model 1.2.1

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Found in path(s):
* /opt/cola/permits/2308615004_1736175580.885641/0/prometheus-metrics-model-1-2-1-jar/META-INF/maven/io.prometheus/prometheus-metrics-model/pom.xml
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Manifest-Version: 1.0
Automatic-Module-Name: io.prometheus.metrics.model
Bnd-LastModified: 1712263731026
Build-Jdk: 21.0.2
Built-By: fabian
Bundle-Description: Data model for read-only immutable Prometheus metric
s snapshots.
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Prometheus Metrics Model
Bundle-SymbolicName: io.prometheus.metrics-model
Bundle-Version: 1.2.1
Created-By: Apache Maven Bundle Plugin
Export-Package: io.prometheus.metrics.model.snapshots;version="1.2.1",io
.prometheus.metrics.model.registry;uses:="io.prometheus.metrics.model.s
napshots";version="1.2.1"
Tool: Bnd-2.1.0.20130426-122213

Found in path(s):
* /opt/cola/permits/2308615004_1736175580.885641/0/prometheus-metrics-model-1-2-1-jar/META-INF/MANIFEST.MF

1.5763 prometheus-metrics-core 1.2.1

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Manifest-Version: 1.0
Automatic-Module-Name: io.prometheus.metrics.core
Bnd-LastModified: 1712263831437
Build-Jdk: 21.0.2
Built-By: fabian
Bundle-Description: Core Prometheus metric types
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Prometheus Metrics Core
Bundle-SymbolicName: io.prometheus.metrics-core
Bundle-Version: 1.2.1
Created-By: Apache Maven Bundle Plugin
Export-Package: io.prometheus.metrics.core.metrics;uses:="io.prometheus.
metrics.config,io.prometheus.metrics.core.datapoints,io.prometheus.metr
ics.model.registry,io.prometheus.metrics.model.snapshots";version="1.2.
1",io.prometheus.metrics.core.datapoints;uses:="io.prometheus.metrics.m
odel.snapshots";version="1.2.1",io.prometheus.metrics.core.util;version
="1.2.1",io.prometheus.metrics.core.exemplars;uses:="io.prometheus.metr
ics.config,io.prometheus.metrics.model.snapshots,io.prometheus.metrics.
 tracer.common";version="1.2.1"
Import-Package: io.prometheus.metrics.config;version="[1.2,2)",io.promet
heus.metrics.model.registry;version="[1.2,2)",io.prometheus.metrics.mod
el.snapshots;version="[1.2,2)",io.prometheus.metrics.tracer.common;vers
ion="[1.2,2)",io.prometheus.metrics.tracer.initializer;version="[1.2,2)
"
Tool: Bnd-2.1.0.20130426-122213

Found in path(s):
* /opt/cola/permits/2308612986_1736175510.9321818/0/prometheus-metrics-core-1-2-1-jar/META-INF/MANIFEST.MF
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1.5764 hdrhistogram 2.2.2

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1.5765 musl 1.2.5-r9

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* /opt/cola/permits/2308626078_1736175074.481667/0/netty-resolver-4-1-112-final-sources-2-jar/io/netty/resolver/HostsFileEntries.java
* /opt/cola/permits/2308626078_1736175074.481667/0/netty-resolver-4-1-112-final-sources-2-jar/io/netty/resolver/ResolvedAddressTypes.java

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* /opt/cola/permits/2308626078_1736175074.481667/0/netty-resolver-4-1-112-final-sources-2-jar/io/netty/resolver/package-info.java
* /opt/cola/permits/2308626078_1736175074.481667/0/netty-resolver-4-1-112-final-sources-2-jar/io/netty/resolver/AddressResolverGroup.java
* /opt/cola/permits/2308626078_1736175074.481667/0/netty-resolver-4-1-112-final-sources-2-jar/io/netty/resolver/NoopAddressResolverGroup.java
* /opt/cola/permits/2308626078_1736175074.481667/0/netty-resolver-4-1-112-final-sources-2-jar/io/netty/resolver/NameResolver.java
* /opt/cola/permits/2308626078_1736175074.481667/0/netty-resolver-4-1-112-final-sources-2-jar/io/netty/resolver/NoopAddressResolver.java

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* /opt/cola/permits/2308626078_1736175074.481667/0/netty-resolver-4-1-112-final-sources-2-jar/io/netty/resolver/HostsFileParser.java
*
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* /opt/cola/permits/2308626078_1736175074.481667/0/netty-resolver-4-1-112-final-sources-2-jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java
* /opt/cola/permits/2308626078_1736175074.481667/0/netty-resolver-4-1-112-final-sources-2-jar/io/netty/resolver/InetNameResolver.java
* /opt/cola/permits/2308626078_1736175074.481667/0/netty-resolver-4-1-112-final-sources-2-jar/io/netty/resolver/CompositeNameResolver.java
* /opt/cola/permits/2308626078_1736175074.481667/0/netty-resolver-4-1-112-final-sources-2-jar/io/netty/resolver/DefaultNameResolver.java
* /opt/cola/permits/2308626078_1736175074.481667/0/netty-resolver-4-1-112-final-sources-2-jar/io/netty/resolver/HostsFileEntriesResolver.java
* /opt/cola/permits/2308626078_1736175074.481667/0/netty-resolver-4-1-112-final-sources-2-jar/io/netty/resolver/AbstractAddressResolver.java
* /opt/cola/permits/2308626078_1736175074.481667/0/netty-resolver-4-1-112-final-sources-2-jar/io/netty/resolver/InetSocketAddressResolver.java
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1.5768 itsdangerous 2.2.0

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* /opt/cola/permits/2308625657_1736175160.9271035/0/netty-transport-classes-epoll-4-1-112-final-sources-2-jar/io/netty/channel/epoll/EpollDomainDatagramChannelConfig.java
* /opt/cola/permits/2308625657_1736175160.9271035/0/netty-transport-classes-epoll-4-1-112-final-sources-2-jar/io/netty/channel/epoll/EpollDomainDatagramChannel.java

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* /opt/cola/permits/2308625657_1736175160.9271035/0/netty-transport-classes-epoll-4-1-112-final-sources-2-jar/META-INF/native-image/io.netty/netty-transport-classes-epoll/native-image.properties
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*/
/**
    * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
    * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
    * Allowing them being read would mean anyone with access to the channel could get them.

   */
```

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* /opt/cola/permits/2308625657_1736175160.9271035/0/netty-transport-classes-epoll-4-1-112-final-sources-2-jar/io/netty/channel/epoll/EpollServerSocketChannelConfig.java
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* /opt/cola/permits/2308625657_1736175160.9271035/0/netty-transport-classes-epoll-4-1-112-final-sources-2-jar/io/netty/channel/epoll/EpollEventArray.java
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* /opt/cola/permits/2308625657_1736175160.9271035/0/netty-transport-classes-epoll-4-1-112-final-sources-2-jar/io/netty/channel/epoll/EpollMode.java
* /opt/cola/permits/2308625657_1736175160.9271035/0/netty-transport-classes-epoll-4-1-112-final-sources-2-jar/io/netty/channel/epoll/EpollServerChannelConfig.java
* /opt/cola/permits/2308625657_1736175160.9271035/0/netty-transport-classes-epoll-4-1-112-final-sources-2-jar/io/netty/channel/epoll/TcpMd5Util.java
* /opt/cola/permits/2308625657_1736175160.9271035/0/netty-transport-classes-epoll-4-1-112-final-sources-2-jar/io/netty/channel/epoll/EpollDomainSocketChannel.java
* /opt/cola/permits/2308625657_1736175160.9271035/0/netty-transport-classes-epoll-4-1-112-final-sources-2-jar/io/netty/channel/epoll/EpollChannelConfig.java
* /opt/cola/permits/2308625657_1736175160.9271035/0/netty-transport-classes-epoll-4-1-112-final-sources-2-jar/io/netty/channel/epoll/AbstractEpollServerChannel.java
* /opt/cola/permits/2308625657_1736175160.9271035/0/netty-transport-classes-epoll-4-1-112-final-sources-2-jar/io/netty/channel/epoll/EpollRecvByteAllocatorHandle.java
* /opt/cola/permits/2308625657_1736175160.9271035/0/netty-transport-classes-epoll-4-1-112-final-sources-2-jar/io/netty/channel/epoll/AbstractEpollStreamChannel.java
* /opt/cola/permits/2308625657_1736175160.9271035/0/netty-transport-classes-epoll-4-1-112-final-sources-2-jar/io/netty/channel/epoll/EpollRecvByteAllocatorStreamingHandle.java
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* /opt/cola/permits/2308625657_1736175160.9271035/0/netty-transport-classes-epoll-4-1-112-final-sources-2-jar/io/netty/channel/epoll/LinuxSocket.java
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* /opt/cola/permits/2308625657_1736175160.9271035/0/netty-transport-classes-epoll-4-1-112-final-sources-2-jar/io/netty/channel/epoll/EpollDatagramChannel.java
*
 /opt/cola/permits/2308625657_1736175160.9271035/0/netty-transport-classes-epoll-4-1-112-final-sources-2-jar/io/netty/channel/epoll/EpollEventLoopGroup.java
* /opt/cola/permits/2308625657_1736175160.9271035/0/netty-transport-classes-epoll-4-1-112-final-sources-2-jar/io/netty/channel/epoll/EpollTcpInfo.java
* /opt/cola/permits/2308625657_1736175160.9271035/0/netty-transport-classes-epoll-4-1-112-final-sources-2-jar/io/netty/channel/epoll/package-info.java
* /opt/cola/permits/2308625657_1736175160.9271035/0/netty-transport-classes-epoll-4-1-112-final-sources-2-jar/io/netty/channel/epoll/EpollChannelOption.java
* /opt/cola/permits/2308625657_1736175160.9271035/0/netty-transport-classes-epoll-4-1-112-final-sources-2-jar/io/netty/channel/epoll/NativeDatagramPacketArray.java
* /opt/cola/permits/2308625657_1736175160.9271035/0/netty-transport-classes-epoll-4-1-112-final-sources-2-jar/io/netty/channel/epoll/Epoll.java
* /opt/cola/permits/2308625657_1736175160.9271035/0/netty-transport-classes-epoll-4-1-112-final-sources-2-jar/io/netty/channel/epoll/AbstractEpollChannel.java
*

/opt/cola/permits/2308625657_1736175160.9271035/0/netty-transport-classes-epoll-4-1-112-final-sources-2-jar/io/netty/channel/epoll/EpollEventLoop.java
* /opt/cola/permits/2308625657_1736175160.9271035/0/netty-transport-classes-epoll-4-1-112-final-sources-2-jar/io/netty/channel/epoll/EpollSocketChannel.java
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*/
/**
    * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
    * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
    * Allowing them being read would mean anyone with access to the channel could get them.
```

```
  */
/**
   * Set the {@code TCP_QUICKACK} option on the socket.
   * See <a href="https://linux.die.net//man/7/tcp">TCP_QUICKACK</a>
   * for more details.
   */
```

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* /opt/cola/permits/2308626353_1736175170.0657935/0/netty-handler-4-1-112-final-sources-2-jar/io/netty/handler/ssl/OpenSslCertificateCompressionAlgorithm.java
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* /opt/cola/permits/2308626353_1736175170.0657935/0/netty-handler-4-1-112-final-sources-2-jar/io/netty/handler/ssl/BouncyCastleAlpnSslEngine.java
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* /opt/cola/permits/2308626353_1736175170.0657935/0/netty-handler-4-1-112-final-sources-2-jar/io/netty/handler/pcap/PcapHeaders.java
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* /opt/cola/permits/2308626353_1736175170.0657935/0/netty-handler-4-1-112-final-sources-2-jar/io/netty/handler/pcap/EthernetPacket.java
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* /opt/cola/permits/2308626353_1736175170.0657935/0/netty-handler-4-1-112-final-sources-2-jar/io/netty/handler/timeout/WriteTimeoutHandler.java
*
 /opt/cola/permits/2308626353_1736175170.0657935/0/netty-handler-4-1-112-final-sources-2-jar/io/netty/handler/stream/ChunkedNioStream.java
* /opt/cola/permits/2308626353_1736175170.0657935/0/netty-handler-4-1-112-final-sources-2-jar/io/netty/handler/ssl/util/package-info.java
* /opt/cola/permits/2308626353_1736175170.0657935/0/netty-handler-4-1-112-final-sources-2-jar/io/netty/handler/timeout/package-info.java
* /opt/cola/permits/2308626353_1736175170.0657935/0/netty-handler-4-1-112-final-sources-2-jar/io/netty/handler/timeout/ReadTimeoutException.java
* /opt/cola/permits/2308626353_1736175170.0657935/0/netty-handler-4-1-112-final-sources-2-

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* /opt/cola/permits/2308626353_1736175170.0657935/0/netty-handler-4-1-112-final-sources-2-jar/io/netty/handler/timeout/WriteTimeoutException.java
* /opt/cola/permits/2308626353_1736175170.0657935/0/netty-handler-4-1-112-final-sources-2-jar/io/netty/handler/timeout/IdleState.java
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* /opt/cola/permits/2308626353_1736175170.0657935/0/netty-handler-4-1-112-final-sources-2-jar/io/netty/handler/ssl/NotSslRecordException.java
* /opt/cola/permits/2308626353_1736175170.0657935/0/netty-handler-4-1-112-final-sources-2-jar/io/netty/handler/stream/ChunkedWriteHandler.java
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* /opt/cola/permits/2308626353_1736175170.0657935/0/netty-handler-4-1-112-final-sources-2-jar/io/netty/handler/ssl/SslHandler.java
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* /opt/cola/permits/2308626353_1736175170.0657935/0/netty-handler-4-1-112-final-sources-2-jar/io/netty/handler/ssl/OpenSslContext.java
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* /opt/cola/permits/2308626353_1736175170.0657935/0/netty-handler-4-1-112-final-sources-2-jar/io/netty/handler/ssl/JdkSslClientContext.java
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* /opt/cola/permits/2308626353_1736175170.0657935/0/netty-handler-4-1-112-final-sources-2-jar/io/netty/handler/ssl/OpenSslEngineMap.java
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* /opt/cola/permits/2308626353_1736175170.0657935/0/netty-handler-4-1-112-final-sources-2-jar/io/netty/handler/ssl/OpenSslDefaultApplicationProtocolNegotiator.java
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* /opt/cola/permits/2308626353_1736175170.0657935/0/netty-handler-4-1-112-final-sources-2-jar/io/netty/handler/ssl/ApplicationProtocolUtil.java
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jar/io/netty/handler/ssl/util/TrustManagerFactoryWrapper.java
* /opt/cola/permits/2308626353_1736175170.0657935/0/netty-handler-4-1-112-final-sources-2-jar/io/netty/handler/ssl/util/KeyManagerFactoryWrapper.java
*
 /opt/cola/permits/2308626353_1736175170.0657935/0/netty-handler-4-1-112-final-sources-2-jar/io/netty/handler/address/DynamicAddressConnectHandler.java
* /opt/cola/permits/2308626353_1736175170.0657935/0/netty-handler-4-1-112-final-sources-2-jar/io/netty/handler/ssl/SslMasterKeyHandler.java
* /opt/cola/permits/2308626353_1736175170.0657935/0/netty-handler-4-1-112-final-sources-2-jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java
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*
 /opt/cola/permits/2308626353_1736175170.0657935/0/netty-handler-4-1-112-final-sources-2-jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
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* /opt/cola/permits/2308626353_1736175170.0657935/0/netty-handler-4-1-112-final-sources-2-jar/io/netty/handler/ssl/SslContextBuilder.java
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* /opt/cola/permits/2308626353_1736175170.0657935/0/netty-handler-4-1-112-final-sources-2-jar/io/netty/handler/ssl/DelegatingSslContext.java
* /opt/cola/permits/2308626353_1736175170.0657935/0/netty-handler-4-1-112-final-sources-2-jar/io/netty/handler/ssl/PemPrivateKey.java
* /opt/cola/permits/2308626353_1736175170.0657935/0/netty-handler-4-1-112-final-sources-2-jar/io/netty/handler/ssl/Java8SslUtils.java
* /opt/cola/permits/2308626353_1736175170.0657935/0/netty-handler-4-1-112-final-sources-2-jar/io/netty/handler/ssl/PemX509Certificate.java
* /opt/cola/permits/2308626353_1736175170.0657935/0/netty-handler-4-1-112-final-sources-2-jar/io/netty/handler/ssl/PemEncoded.java
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* /opt/cola/permits/2308626353_1736175170.0657935/0/netty-handler-4-1-112-final-sources-2-jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java
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* /opt/cola/permits/2308626353_1736175170.0657935/0/netty-handler-4-1-112-final-sources-2-jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java

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* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/ProtocolDetectionState.java
* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
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* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
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* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/string/LineSeparator.java
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* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/DefaultHeadersImpl.java
* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/CharSequenceValueConverter.java
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* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/json/package-info.java
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* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java
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* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java
* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java
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* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/compression/Bzip2Rand.java
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 /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java
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* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java
* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java
* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
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 /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/AsciiHeadersEncoder.java
* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java
* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/compression/Lz4Constants.java
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* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/compression/Bzip2BitWriter.java
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* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-

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* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/serialization/ReferenceMap.java
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* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/marshalling/MarshallerProvider.java
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* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/serialization/ClassResolvers.java
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* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/DecoderResult.java
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/opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/compression/Snappy.java
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* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/xml/package-info.java
* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java

* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/compression/ZlibCodecFactory.java
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* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/compression/SnappyFrameEncoder.java
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* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/marshalling/DefaultUnmarshallerProvider.java
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* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/string/StringEncoder.java
* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/compression/JZlibDecoder.java
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* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/DecoderException.java
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* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/UnsupportedMessageTypeException.java
* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/compression/ZlibWrapper.java
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* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/marshalling/package-info.java
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*/
```

Found in path(s):
* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/compression/ZstdDecoder.java
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* under the License.
*/
/**
* A decoder that splits the received {@link ByteBuf}s dynamically by the
* value of the length field in the message.  It is particularly useful when you
```

```
* decode a binary message which has an integer header field that represents the
* length of the message body or the whole message.
*
 <p>
* {@link LengthFieldBasedFrameDecoder} has many configuration parameters so
* that it can decode any message with a length field, which is often seen in
* proprietary client-server protocols. Here are some example that will give
* you the basic idea on which option does what.
*
* <h3>2 bytes length field at offset 0, do not strip header</h3>
*
* The value of the length field in this example is <tt>12 (0x0C)</tt> which
* represents the length of "HELLO, WORLD".  By default, the decoder assumes
* that the length field represents the number of the bytes that follows the
* length field.  Therefore, it can be decoded with the simplistic parameter
* combination.
* <pre>
* <b>lengthFieldOffset</b>   = <b>0</b>
* <b>lengthFieldLength</b>   = <b>2</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0 (= do not strip header)
*
* BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content
 |----->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 0, strip header</h3>
*
* Because we can get the length of the content by calling
* {@link ByteBuf#readableBytes()}, you might want to strip the length
* field by specifying <tt>initialBytesToStrip</tt>.  In this example, we
* specified <tt>2</tt>, that is same with the length of the length field, to
* strip the first two bytes.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* lengthAdjustment    = 0
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
*
* BEFORE DECODE (14 bytes)         AFTER DECODE (12 bytes)
* +--------+----------------+      +----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +----------------+
```

```
 * </pre>
*
* <h3>2 bytes length field at offset 0, do not strip header, the length field
*     represents the length of the whole message</h3>
*
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples.  However, in some protocols, the
* length field represents the length of the whole message, including the
* message header.  In such a case, we specify a non-zero
* <tt>lengthAdjustment</tt>.  Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
* as <tt>lengthAdjustment</tt> for compensation.
* <pre>
* lengthFieldOffset   =  0
* lengthFieldLength   =  2
* <b>lengthAdjustment</b>    = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip =  0
*
* BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual
 Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
*
* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>
*
* The following message is a simple variation of the first example.  An extra
* header value is prepended to the message.  <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* <b>lengthFieldOffset</b>   = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b>   = <b>3</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)                    AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* |  0xCAFE  | 0x00000C | "HELLO, WORLD" |
 |  0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
*
* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
*
```

```
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body.  You have to specify a
* positive <tt>lengthAdjustment</tt> so that the decoder counts the extra
* header into the frame length calculation.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 3
* <b>lengthAdjustment</b>    = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)                    AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* |  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
* | 0x00000C |  0xCAFE  | "HELLO, WORLD" |      | 0x00000C |  0xCAFE  | "HELLO,
 WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
*     strip the first header field and the length field</h3>
*
* This is a combination of all the examples above.  There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
* header affects the <tt>lengthAdjustment</tt>.  We also specified a non-zero
* <tt>initialBytesToStrip</tt> to strip the length field and the prepended
* header from the frame.  If you don't want to strip the prepended header, you
* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.
* <pre>
* lengthFieldOffset   = 1 (= the length of HDR1)
* lengthFieldLength   = 2
* <b>lengthAdjustment</b>    = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 +
 LEN)
*
* BEFORE DECODE (16 bytes)                    AFTER DECODE (13 bytes)
* +------+--------+------+----------------+      +------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +------+--------+------+----------------+      +------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
*     strip the first header field and the length field, the length field
*     represents the length of the whole message</h3>
*
* Let's give another twist to the previous example.  The only difference from
* the previous example is that the length field represents the length of the
```

```
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
* Please note that we don't need to take the length of HDR2 into account
* because
 the length field already includes the whole header length.
* <pre>
* lengthFieldOffset   =  1
* lengthFieldLength   =  2
* <b>lengthAdjustment</b>    = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b> 3</b>
*
* BEFORE DECODE (16 bytes)                      AFTER DECODE (13 bytes)
* +------+--------+------+----------------+      +------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +------+--------+------+----------------+      +------+----------------+
* </pre>
* @see LengthFieldPrepender
*/
```

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* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java
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* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/compression/DeflateOptions.java
* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/compression/GzipOptions.java
*

/opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/compression/ZstdConstants.java
* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/compression/Zstd.java
* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/compression/ZstdEncoder.java
* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/compression/CompressionOptions.java
* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/compression/StandardCompressionOptions.java
* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/compression/BrotliOptions.java
* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/compression/BrotliEncoder.java
*
/opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/compression/ZstdOptions.java
* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/compression/Brotli.java
* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/compression/BrotliDecoder.java
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* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/Headers.java
* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/EmptyHeaders.java
* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/DefaultHeaders.java
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*/
/*
* Written by Robert Harder and released to the public domain, as explained at
* https://creativecommons.org/licenses/publicdomain
*/
/**
* Utility class for {@link ByteBuf} that encodes and decodes to and from
* Base64 notation.
* <p>
 * The encoding and decoding algorithm in this class has been derived from
* Robert Harder's Public Domain
* Base64 Encoder/Decoder.
*/

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* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/base64/Base64.java
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* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/compression/SnappyOptions.java
* /opt/cola/permits/2308625643_1736175228.8328545/0/netty-codec-4-1-112-final-sources-2-jar/io/netty/handler/codec/compression/EncoderUtil.java

1.5775 go-compute-metadata 0.2.3

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
```

```
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
```

```
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()
```

```
 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
```

```
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
```

```
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp
 }
```

```
}

func ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range
 values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown
 in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
```

```
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
// Copyright 2022 Google LLC
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// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
// See the License for the specific language governing permissions and
// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io/ioutil"
 "math"
 "net/http"
 "net/url"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook
```

```
// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete:            []gax.CallOption{},
  Get:               []gax.CallOption{},
  GetIamPolicy:      []gax.CallOption{},
  Insert:            []gax.CallOption{},
  List:              []gax.CallOption{},
  SetIamPolicy:      []gax.CallOption{},
  TestIamPermissions: []gax.CallOption{},
 }
}

//
 internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

// LicensesClient
 is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
```

```
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
//
 Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource
 exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
images.
```

```
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method
 to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud
 Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
```

```
 operationClient *GlobalOperationsClient

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption)
 (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
```

```
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", versionGo()}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection()
 *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()
```

```
 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type",
 "application/json"))
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 op := &Operation{
  &globalOperationsHandle{
   c:
```

```
      c.operationClient,
   proto:   resp,
   project: req.GetProject(),
  },
 }
 return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }
```

```
  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource
 exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type",
 "application/json"))
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
```

```
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {
 return
nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }
```

```
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.RequestId != nil {
 params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v", "project",
url.QueryEscape(req.GetProject())))

headers
:= buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }
```

```
 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return
nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true,
 DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())
```

```
 params := url.Values{}
 if req != nil && req.Filter != nil {
  params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
 }
 if req != nil && req.MaxResults != nil {
  params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
 }
 if req != nil && req.OrderBy != nil {
  params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
 }
 if req != nil && req.PageToken != nil {
  params.Add("pageToken", fmt.Sprintf("%v",
req.GetPageToken()))
 }
 if req != nil && req.ReturnPartialSuccess != nil {
  params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
```

```
   return
 maybeUnknownEnum(err)
   }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial:
 true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())
```

```
 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings)
 error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
```

```
// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest,
 opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown:
 true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()
```

```
  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
 items    []*computepb.License
 pageInfo *iterator.PageInfo
 nextFunc func() error

 //
 Response is the raw response for the current page.
 // It must be cast to the RPC response type.
 // Calling Next() or InternalFetch() updates this value.
 Response interface{}

 // InternalFetch is for use by the Google Cloud Libraries only.
 // It is not part of the stable interface of this package.
 //
 // InternalFetch returns results from a single call to the underlying RPC.
 // The number of results is no greater than pageSize.
 // If there are no more results, nextPageToken is empty and err is nil.
 InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
 return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
```

```
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator)
 Next() (*computepb.License, error) {
 var item *computepb.License
 if err := it.nextFunc(); err != nil {
  return item, err
 }
 item = it.items[0]
 it.items = it.items[1:]
 return item, nil
}

func (it *LicenseIterator) bufLen() int {
 return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
 b := it.items
 it.items = nil
 return b
}
```

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package compute

import (
 "bytes"
 "context"
 "fmt"
 "io/ioutil"
 "net/http"
 "net/url"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"

```
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
)

var
 newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
 Get              []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
 return &LicenseCodesCallOptions{
  Get:              []gax.CallOption{},
  TestIamPermissions: []gax.CallOption{},
 }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
 (*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseCodesClient

 // The call options for this service.
 CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.
```

```
// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context,
 req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licenseCodesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client
```

```
 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD

 // Points back to the CallOptions field of the containing LicenseCodesClient
 CallOptions **LicenseCodesCallOptions
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
 clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx,
 clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicenseCodesRESTCallOptions()
 c := &licenseCodesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go",
 versionGo()}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}
```

```
// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption)
 (*computepb.LicenseCode, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.LicenseCode{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err
 != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers
```

```
 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq,
 err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

 // Build HTTP headers from client and context metadata.
```

```
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path
 != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
```

1.5776 dns-python 2.7.0

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1.5777 blinker 1.9.0

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* /opt/cola/permits/2308625691_1736175006.6201117/0/netty-transport-native-unix-common-4-1-112-final-sources-3-jar/io/netty/channel/unix/GenericUnixChannelOption.java
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1.5779 x-xerrors 0.0.0-20220907171357-04be3eba64a2

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* /opt/cola/permits/2308625816_1736175013.0369265/0/netty-codec-http-4-1-112-final-sources-1-jar/io/netty/handler/codec/http/multipart/DeleteFileOnExitHook.java
*
 /opt/cola/permits/2308625816_1736175013.0369265/0/netty-codec-http-4-1-112-final-sources-1-jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshakeException.java
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* /opt/cola/permits/2308625816_1736175013.0369265/0/netty-codec-http-4-1-112-final-sources-1-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketClientExtension.java
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 /opt/cola/permits/2308625816_1736175013.0369265/0/netty-codec-http-4-1-112-final-sources-1-jar/io/netty/handler/codec/spdy/SpdyFrameDecoder.java
* /opt/cola/permits/2308625816_1736175013.0369265/0/netty-codec-http-4-1-112-final-sources-1-jar/io/netty/handler/codec/http/websocketx/extensions/package-info.java
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* /opt/cola/permits/2308625816_1736175013.0369265/0/netty-codec-http-4-1-112-final-sources-1-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockDecoder.java

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/opt/cola/permits/2308625816_1736175013.0369265/0/netty-codec-http-4-1-112-final-sources-1-jar/io/netty/handler/codec/http/HttpHeadersEncoder.java
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* /opt/cola/permits/2308625816_1736175013.0369265/0/netty-codec-http-4-1-112-final-sources-1-jar/io/netty/handler/codec/http/cors/CorsHandler.java
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* /opt/cola/permits/2308625816_1736175013.0369265/0/netty-codec-http-4-1-112-final-sources-1-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker13.java
* /opt/cola/permits/2308625816_1736175013.0369265/0/netty-codec-http-4-1-112-final-sources-1-jar/io/netty/handler/codec/http/websocketx/WebSocket00FrameDecoder.java
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* /opt/cola/permits/2308625816_1736175013.0369265/0/netty-codec-http-4-1-112-final-sources-1-jar/io/netty/handler/codec/http/CompressionEncoderFactory.java
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* /opt/cola/permits/2308625816_1736175013.0369265/0/netty-codec-http-4-1-112-final-sources-1-jar/io/netty/handler/codec/http/multipart/AbstractMixedHttpData.java
*

/opt/cola/permits/2308625816_1736175013.0369265/0/netty-codec-http-4-1-112-final-sources-1-jar/io/netty/handler/codec/http/TooLongHttpLineException.java
* /opt/cola/permits/2308625816_1736175013.0369265/0/netty-codec-http-4-1-112-final-sources-1-jar/io/netty/handler/codec/http/TooLongHttpContentException.java
* /opt/cola/permits/2308625816_1736175013.0369265/0/netty-codec-http-4-1-112-final-sources-1-jar/io/netty/handler/codec/http/HttpHeaderValidationUtil.java
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* /opt/cola/permits/2308625816_1736175013.0369265/0/netty-codec-http-4-1-112-final-sources-1-jar/io/netty/handler/codec/rtsp/RtspDecoder.java
*
/opt/cola/permits/2308625816_1736175013.0369265/0/netty-codec-http-4-1-112-final-sources-1-jar/io/netty/handler/codec/rtsp/RtspEncoder.java
* /opt/cola/permits/2308625816_1736175013.0369265/0/netty-codec-http-4-1-112-final-sources-1-jar/io/netty/handler/codec/http/HttpExpectationFailedEvent.java
* /opt/cola/permits/2308625816_1736175013.0369265/0/netty-codec-http-4-1-112-final-sources-1-jar/io/netty/handler/codec/http/cookie/Cookie.java
* /opt/cola/permits/2308625816_1736175013.0369265/0/netty-codec-http-4-1-112-final-sources-1-jar/io/netty/handler/codec/http/CombinedHttpHeaders.java
* /opt/cola/permits/2308625816_1736175013.0369265/0/netty-codec-http-4-1-112-final-sources-1-jar/io/netty/handler/codec/http/cookie/ServerCookieEncoder.java
* /opt/cola/permits/2308625816_1736175013.0369265/0/netty-codec-http-4-1-112-final-sources-1-jar/io/netty/handler/codec/http/EmptyHttpHeaders.java
* /opt/cola/permits/2308625816_1736175013.0369265/0/netty-codec-http-4-1-112-final-sources-1-jar/io/netty/handler/codec/http/cookie/CookieEncoder.java
*
/opt/cola/permits/2308625816_1736175013.0369265/0/netty-codec-http-4-1-112-final-sources-1-jar/io/netty/handler/codec/http/HttpUtil.java
* /opt/cola/permits/2308625816_1736175013.0369265/0/netty-codec-http-4-1-112-final-sources-1-

jar/io/netty/handler/codec/http/cookie/CookieDecoder.java
* /opt/cola/permits/2308625816_1736175013.0369265/0/netty-codec-http-4-1-112-final-sources-1-jar/io/netty/handler/codec/http/cookie/package-info.java
* /opt/cola/permits/2308625816_1736175013.0369265/0/netty-codec-http-4-1-112-final-sources-1-jar/io/netty/handler/codec/http/cookie/CookieUtil.java
* /opt/cola/permits/2308625816_1736175013.0369265/0/netty-codec-http-4-1-112-final-sources-1-jar/io/netty/handler/codec/http/cookie/ServerCookieDecoder.java
* /opt/cola/permits/2308625816_1736175013.0369265/0/netty-codec-http-4-1-112-final-sources-1-jar/io/netty/handler/codec/http/HttpScheme.java
* /opt/cola/permits/2308625816_1736175013.0369265/0/netty-codec-http-4-1-112-final-sources-1-jar/io/netty/handler/codec/http/cookie/ClientCookieDecoder.java
*
 /opt/cola/permits/2308625816_1736175013.0369265/0/netty-codec-http-4-1-112-final-sources-1-jar/io/netty/handler/codec/http/cookie/CookieHeaderNames.java
* /opt/cola/permits/2308625816_1736175013.0369265/0/netty-codec-http-4-1-112-final-sources-1-jar/io/netty/handler/codec/http/cookie/DefaultCookie.java
* /opt/cola/permits/2308625816_1736175013.0369265/0/netty-codec-http-4-1-112-final-sources-1-jar/io/netty/handler/codec/http/cookie/ClientCookieEncoder.java
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* /opt/cola/permits/2308625816_1736175013.0369265/0/netty-codec-http-4-1-112-final-sources-1-jar/io/netty/handler/codec/http/HttpServerKeepAliveHandler.java
*
 /opt/cola/permits/2308625816_1736175013.0369265/0/netty-codec-http-4-1-112-final-sources-1-jar/io/netty/handler/codec/http/multipart/FileUploadUtil.java
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* /opt/cola/permits/2308625816_1736175013.0369265/0/netty-codec-http-4-1-112-final-sources-1-jar/io/netty/handler/codec/http/websocketx/WebSocket07FrameDecoder.java
* /opt/cola/permits/2308625816_1736175013.0369265/0/netty-codec-http-4-1-112-final-sources-1-jar/io/netty/handler/codec/http/websocketx/WebSocket13FrameDecoder.java

1.5782 error_prone_annotations 2.28.0

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Manifest-Version: 1.0
Created-By: Maven JAR Plugin 3.2.2
Build-Jdk-Spec: 17
Multi-Release: true
Bundle-Description: Error Prone is a static analysis tool for Java that
catches common programming mistakes at compile-time.
Bundle-DocURL: https://errorprone.info/error_prone_annotations
Bundle-License: "Apache 2.0";link="http://www.apache.org/licenses/LICENS
E-2.0.txt"
Bundle-ManifestVersion: 2

Bundle-Name: error-prone annotations
Bundle-SCM: url="https://github.com/google/error-prone/error_prone_annot
ations",connection="scm:git:https://github.com/google/error-prone.git/e
rror_prone_annotations",developer-connection="scm:git:git@github.com:go
ogle/error-prone.git/error_prone_annotations",tag=HEAD
Bundle-SymbolicName: com.google.errorprone.annotations
Bundle-Vendor: Google LLC
Bundle-Version: 2.28.0
Export-Package: com.google.errorprone.annotations;uses:="javax.lang.mode
l.element";version="2.28.0",com.google.errorprone.annotations.concurren
 t;version="2.28.0"
Import-Package: javax.lang.model.element
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"

Found in path(s):
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1.5783 netty-transport 4.1.112.Final

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* /opt/cola/permits/2308625822_1736175162.7462654/0/netty-transport-4-1-112-final-sources-2-jar/io/netty/channel/StacklessClosedChannelException.java
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* /opt/cola/permits/2308625822_1736175162.7462654/0/netty-transport-4-1-112-final-sources-2-jar/io/netty/channel/PendingWriteQueue.java
* /opt/cola/permits/2308625822_1736175162.7462654/0/netty-transport-4-1-112-final-sources-2-jar/io/netty/channel/AbstractEventLoop.java
* /opt/cola/permits/2308625822_1736175162.7462654/0/netty-transport-4-1-112-final-sources-2-jar/io/netty/channel/embedded/EmbeddedChannelId.java
* /opt/cola/permits/2308625822_1736175162.7462654/0/netty-transport-4-1-112-final-sources-2-jar/io/netty/channel/ChannelFactory.java

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*/
/**
* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
* its {@link ChannelPipeline}.
*
* <h3>Sub-types</h3>
* <p>
* {@link ChannelHandler} itself does not provide many methods, but you usually have to implement one of its
subtypes:
* <ul>
* <li>{@link
 ChannelInboundHandler} to handle inbound I/O events, and</li>
* <li>{@link ChannelOutboundHandler} to handle outbound I/O operations.</li>
* </ul>
* </p>
* <p>
* Alternatively, the following adapter classes are provided for your convenience:
* <ul>
* <li>{@link ChannelInboundHandlerAdapter} to handle inbound I/O events,</li>
* <li>{@link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and</li>
* <li>{@link ChannelDuplexHandler} to handle both inbound and outbound events</li>
* </ul>
* </p>
* <p>
* For more information, please refer to the documentation of each subtype.
* </p>
*
* <h3>The context object</h3>
* <p>
* A {@link ChannelHandler} is provided with a {@link ChannelHandlerContext}
* object.  A {@link ChannelHandler} is supposed to interact with the
* {@link ChannelPipeline} it belongs to via a context object.  Using the
```

```
* context object, the {@link ChannelHandler} can pass events upstream or
* downstream, modify the pipeline dynamically,
 or store the information
* (using {@link AttributeKey}s) which is specific to the handler.
*
* <h3>State management</h3>
*
* A {@link ChannelHandler} often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* <pre>
* public interface Message {
*     // your methods here
* }
*
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message&gt; {
*
*     <b>private boolean loggedIn;</b>
*
*     {@code @Override}
*     public void channelRead0({@link ChannelHandlerContext} ctx, Message message) {
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) message);
*             <b>loggedIn = true;</b>
*         } else (message instanceof GetDataMessage) {
*             if (<b>loggedIn</b>) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*             } else {
*                 fail();
*             }
*
 }
*     }
*     ...
* }
* </pre>
* Because the handler instance has a state variable which is dedicated to
* one connection, you have to create a new handler instance for each new
* channel to avoid a race condition where an unauthenticated client can get
* the confidential information:
* <pre>
* // Create a new handler instance per channel.
* // See {@link ChannelInitializer#initChannel(Channel)}.
* public class DataServerInitializer extends {@link ChannelInitializer}&lt;{@link Channel}&gt; {
*     {@code @Override}
*     public void initChannel({@link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
*     }
* }
```

```
*
* </pre>
*
* <h4>Using {@link AttributeKey}s</h4>
*
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use {@link AttributeKey}s which is provided by
* {@link ChannelHandlerContext}:
 * <pre>
* public interface Message {
*     // your methods here
* }
*
* {@code @Sharable}
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message&gt; {
*     private final {@link AttributeKey}&lt;{@link Boolean}&gt; auth =
*         {@link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
*
*     {@code @Override}
*     public void channelRead({@link ChannelHandlerContext} ctx, Message message) {
*         {@link Attribute}&lt;{@link Boolean}&gt; attr = ctx.attr(auth);
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) o);
*             <b>attr.set(true)</b>;
*         } else (message instanceof GetDataMessage) {
*             if (<b>Boolean.TRUE.equals(attr.get())</b>) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*             } else {
*                 fail();
*             }
*         }
*     }
*     ...
* }
* </pre>
* Now that the
 state of the handler is attached to the {@link ChannelHandlerContext}, you can add the
* same handler instance to different pipelines:
* <pre>
* public class DataServerInitializer extends {@link ChannelInitializer}&lt;{@link Channel}&gt; {
*
*     private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
*
*     {@code @Override}
*     public void initChannel({@link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>SHARED</b>);
*     }
```

```
* }
* </pre>
*
*
* <h4>The {@code @Sharable} annotation</h4>
* <p>
* In the example above which used an {@link AttributeKey},
* you might have noticed the {@code @Sharable} annotation.
* <p>
* If a {@link ChannelHandler} is annotated with the {@code @Sharable}
* annotation, it means you can create an instance of the handler just once and
* add it to one or more {@link ChannelPipeline}s multiple times without
* a race condition.
* <p>
* If this annotation is not specified, you have to create
 a new handler
* instance every time you add it to a pipeline because it has unshared state
* such as member variables.
* <p>
* This annotation is provided for documentation purpose, just like
* <a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.
*
* <h3>Additional resources worth reading</h3>
* <p>
* Please refer to the {@link ChannelHandler}, and
* {@link ChannelPipeline} to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a  pipeline,  and how to handle
* the operation in your application.
*/
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* /opt/cola/permits/2308625822_1736175162.7462654/0/netty-transport-4-1-112-final-sources-2-jar/io/netty/channel/ChannelHandlerMask.java
*
 /opt/cola/permits/2308625822_1736175162.7462654/0/netty-transport-4-1-112-final-sources-2-jar/io/netty/channel/EventLoopTaskQueueFactory.java
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* /opt/cola/permits/2308625822_1736175162.7462654/0/netty-transport-4-1-112-final-sources-2-jar/io/netty/channel/SimpleUserEventChannelHandler.java
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jar/io/netty/bootstrap/ChannelInitializerExtensions.java
* /opt/cola/permits/2308625822_1736175162.7462654/0/netty-transport-4-1-112-final-sources-2-jar/io/netty/bootstrap/ChannelInitializerExtension.java
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* /opt/cola/permits/2308625822_1736175162.7462654/0/netty-transport-4-1-112-final-sources-2-jar/io/netty/channel/CombinedChannelDuplexHandler.java
* /opt/cola/permits/2308625822_1736175162.7462654/0/netty-transport-4-1-112-final-sources-2-jar/io/netty/channel/ThreadPerChannelEventLoopGroup.java
* /opt/cola/permits/2308625822_1736175162.7462654/0/netty-transport-4-1-112-final-sources-2-jar/io/netty/channel/EventLoopGroup.java
* /opt/cola/permits/2308625822_1736175162.7462654/0/netty-transport-4-1-112-final-sources-2-jar/io/netty/channel/DefaultChannelConfig.java
* /opt/cola/permits/2308625822_1736175162.7462654/0/netty-transport-4-1-112-final-sources-2-jar/io/netty/channel/RecvByteBufAllocator.java
* /opt/cola/permits/2308625822_1736175162.7462654/0/netty-transport-4-1-112-final-sources-2-jar/io/netty/channel/socket/oio/package-info.java
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* /opt/cola/permits/2308625822_1736175162.7462654/0/netty-transport-4-1-112-final-sources-2-jar/io/netty/channel/ChannelId.java
* /opt/cola/permits/2308625822_1736175162.7462654/0/netty-transport-4-1-112-final-sources-2-jar/io/netty/channel/ChannelProgressiveFutureListener.java
*
/opt/cola/permits/2308625822_1736175162.7462654/0/netty-transport-4-1-112-final-sources-2-jar/io/netty/channel/MessageSizeEstimator.java
* /opt/cola/permits/2308625822_1736175162.7462654/0/netty-transport-4-1-112-final-sources-2-jar/io/netty/channel/ChannelProgressiveFuture.java
* /opt/cola/permits/2308625822_1736175162.7462654/0/netty-transport-4-1-112-final-sources-2-jar/io/netty/channel/DefaultMessageSizeEstimator.java
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1.5784 packaging 24.1

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* /opt/cola/permits/2308639531_1736175968.167881/0/jose4j-0-9-6-sources-2-jar/org/jose4j/jwe/kdf/KdfUtil.java
* /opt/cola/permits/2308639531_1736175968.167881/0/jose4j-0-9-6-sources-2-jar/org/jose4j/jwe/kdf/ConcatenationKeyDerivationFunctionWithSha256.java
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* /opt/cola/permits/2308639531_1736175968.167881/0/jose4j-0-9-6-sources-2-jar/org/jose4j/jwe/EcdhKeyAgreementAlgorithm.java
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* /opt/cola/permits/2308639531_1736175968.167881/0/jose4j-0-9-6-sources-2-jar/org/jose4j/jwk/JsonWebKeySet.java
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* /opt/cola/permits/2308639531_1736175968.167881/0/jose4j-0-9-6-sources-2-jar/org/jose4j/jwk/DecryptionJwkSelector.java
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1.5794 jsonreference 0.20.1

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1.5795 protobuf-go 1.30.0

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1.5796 dario-mergo 0.3.12

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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

1.5797 kube-openapi 0.0.0-20230501164219-8b0f38b5fd1f

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package spec

```
// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}
# This source code was written by the Go contributors.
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package spec

import "testing"

func TestIntegrationLicense(t *testing.T) {
 license := License{Name: "the name", URL: "the url"}
 const licenseJSON = `{"name":"the name","url":"the url"}`
 const licenseYAML = "name: the name\nurl: the url\n"

 assertSerializeJSON(t, license, licenseJSON)
 assertParsesJSON(t, licenseJSON, license)
}
```

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1.5798 kubernetes-yaml 1.3.0

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1.5799 reflect2 1.0.2

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1.5800 x-sync 0.8.0

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1.5801 x-sync 0.7.0

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```
---
name: github.com/cloudflare/circl/internal/conv
version: v1.3.7
type: go
summary:
homepage: https://pkg.go.dev/github.com/cloudflare/circl/internal/conv
license: other
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 text: |
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name: github.com/go-git/go-git/v5/config
version: v5.12.0
type: go
summary: Package config contains the abstraction of multiple config files
homepage: https://pkg.go.dev/github.com/go-git/go-git/v5/config
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version: v1.5.1-0.20230307220236-3a3c6141e376
type: go
summary: Package token defines constants representing the lexical tokens of the gcfg
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name: github.com/ProtonMail/go-crypto/ocb
version: v1.0.0
type: go
summary: 'Package ocb provides an implementation of the OCB (offset codebook) mode
of operation, as described in RFC-7253 of the IRTF and in Rogaway, Bellare, Black
and Krovetz - OCB: A BLOCK-CIPHER MODE OF OPERATION FOR EFFICIENT AUTHENTICATED
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name: golang.org/x/crypto/ssh/knownhosts
version: v0.21.0
type: go
summary: Package knownhosts implements a parser for the OpenSSH known_hosts host key
database, and provides utility functions for writing OpenSSH compliant known_hosts
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name: github.com/google/go-github/v43/github
version: v43.0.0
type: go
summary: Package github provides a client for using the GitHub API.
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summary:
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version: v1.18.1
type: go
summary: Package lists provides an abstract List interface.
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version: v1.0.0
type: go
summary: Package ecdh implements ECDH encryption, suitable for OpenPGP, as specified
in RFC 6637, section 8.
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name: golang.org/x/crypto/openpgp/elgamal

version: v0.21.0
type: go
summary: Package elgamal implements ElGamal encryption, suitable for OpenPGP, as specified
 in "A Public-Key Cryptosystem and a Signature Scheme Based on Discrete Logarithms,"
 IEEE Transactions on Information Theory, v.
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version: v5.12.0
type: go
summary: Package index implements encoding and decoding of index format files.
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summary: Package errors contains common error types for the OpenPGP packages.
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version: v5.12.0
type: go
summary: Package pktline implements reading payloads form pkt-lines and encoding pkt-lines
 from payloads.
homepage: https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/format/pktline
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version: v0.21.0
type: go
summary: Package openpgp implements high level operations on OpenPGP messages.
homepage: https://pkg.go.dev/golang.org/x/crypto/openpgp
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version: v5.12.0
type: go
summary: Package objfile implements encoding and decoding of object files.
homepage: https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/format/objfile
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type: go
summary:
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notices: []
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package github

import (
 "context"
 "fmt"
)

// LicensesService handles communication with the license related
// methods of the GitHub API.
//
// GitHub API docs: https://docs.github.com/en/free-pro-team@latest/rest/reference/licenses/
type LicensesService service

// RepositoryLicense represents the license for a repository.
type RepositoryLicense struct {
 Name *string `json:"name,omitempty"`
 Path *string `json:"path,omitempty"`

 SHA         *string  `json:"sha,omitempty"`
 Size        *int     `json:"size,omitempty"`
 URL         *string  `json:"url,omitempty"`
 HTMLURL     *string  `json:"html_url,omitempty"`
 GitURL      *string  `json:"git_url,omitempty"`
 DownloadURL *string  `json:"download_url,omitempty"`
 Type        *string  `json:"type,omitempty"`
 Content     *string  `json:"content,omitempty"`
 Encoding
    *string  `json:"encoding,omitempty"`
 License     *License `json:"license,omitempty"`
}

func (l RepositoryLicense) String() string {
 return Stringify(l)
}
```

```
// License represents an open source license.
type License struct {
 Key  *string `json:"key,omitempty"`
 Name *string `json:"name,omitempty"`
 URL  *string `json:"url,omitempty"`

 SPDXID        *string   `json:"spdx_id,omitempty"`
 HTMLURL       *string   `json:"html_url,omitempty"`
 Featured      *bool     `json:"featured,omitempty"`
 Description   *string   `json:"description,omitempty"`
 Implementation *string  `json:"implementation,omitempty"`
 Permissions   *[]string `json:"permissions,omitempty"`
 Conditions    *[]string `json:"conditions,omitempty"`
 Limitations   *[]string `json:"limitations,omitempty"`
 Body          *string   `json:"body,omitempty"`
}

func (l License) String() string {
 return Stringify(l)
}

// List popular open source licenses.
//
// GitHub API docs: https://docs.github.com/en/free-pro-team@latest/rest/reference/licenses/#list-all-licenses
func
 (s *LicensesService) List(ctx context.Context) ([]*License, *Response, error) {
 req, err := s.client.NewRequest("GET", "licenses", nil)
 if err != nil {
  return nil, nil, err
 }

 var licenses []*License
 resp, err := s.client.Do(ctx, req, &licenses)
 if err != nil {
  return nil, resp, err
 }

 return licenses, resp, nil
}

// Get extended metadata for one license.
//
// GitHub API docs: https://docs.github.com/en/free-pro-team@latest/rest/reference/licenses/#get-a-license
func (s *LicensesService) Get(ctx context.Context, licenseName string) (*License, *Response, error) {
 u := fmt.Sprintf("licenses/%s", licenseName)

 req, err := s.client.NewRequest("GET", u, nil)
 if err != nil {
```

```
 return nil, nil, err
}

license := new(License)
resp, err := s.client.Do(ctx, req, license)
if err != nil {
 return nil, resp, err
}

return license, resp, nil
}
---
name: github.com/go-git/go-git/v5/plumbing/cache
version: v5.12.0
type: go
summary:
homepage: https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/cache
license: apache-2.0
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- sources: v5/LICENSE
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name: github.com/ProtonMail/go-crypto/openpgp/aes/keywrap
version: v1.0.0
type: go
summary: Package keywrap is an implementation of the RFC 3394 AES key wrapping algorithm.

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name: github.com/cloudflare/circl/dh/x25519
version: v1.3.7
type: go
summary: Package x25519 provides Diffie-Hellman functions as specified in RFC-7748.
homepage: https://pkg.go.dev/github.com/cloudflare/circl/dh/x25519
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name: github.com/cloudflare/circl/sign
version: v1.3.7
type: go
summary: Package sign provides unified interfaces for signature schemes.
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name: github.com/ProtonMail/go-crypto/openpgp/elgamal
version: v1.0.0
type: go
summary: Package elgamal implements ElGamal encryption, suitable for OpenPGP, as specified
in "A Public-Key Cryptosystem and a Signature Scheme Based on Discrete Logarithms,"
IEEE Transactions on Information Theory, v.
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name: github.com/go-git/go-git/v5/plumbing/protocol/packp/sideband
version: v5.12.0
type: go
summary: Package sideband implements a sideband mutiplex/demultiplexer
homepage: https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/protocol/packp/sideband
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name: github.com/go-git/go-git/v5/plumbing/revlist
version: v5.12.0
type: go
summary: Package revlist provides support to access the ancestors of commits, in a
 similar way as the git-rev-list command.
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version: v5.12.0
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notices: []
---
name: github.com/go-git/go-git/v5/utils/diff
version: v5.12.0
type: go
summary: Package diff implements line oriented diffs, similar to the ancient Unix
diff command.
homepage: https://pkg.go.dev/github.com/go-git/go-git/v5/utils/diff
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version: v5.12.0
type: go
summary: Package client contains helper function to deal with the different client
 protocols.
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version: v1.0.0
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version: v0.19.0
type: go
summary: Package internal contains support packages for oauth2 package.
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version: v1.0.0
type: go
summary: Package eddsa implements EdDSA signature, suitable for OpenPGP, as specified
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version: v1.0.0
type: go
summary: Package ecc implements a generic interface for ECDH, ECDSA, and EdDSA.
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type: go
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---
name: github.com/go-git/go-git/v5/utils/binary
version: v5.12.0
type: go
summary: Package binary implements syntax-sugar functions on top of the standard library
binary package
homepage: https://pkg.go.dev/github.com/go-git/go-git/v5/utils/binary
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---
name: golang.org/x/crypto/openpgp/packet
version: v0.21.0
type: go
summary: Package packet implements parsing and serialization of OpenPGP packets, as
 specified in RFC 4880.
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name: github.com/ProtonMail/go-crypto/openpgp/internal/encoding
version: v1.0.0
type: go
summary: Package encoding implements openpgp packet field encodings as specified in
RFC 4880 and 6637.
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name: github.com/emirpasic/gods/trees
version: v1.18.1
type: go
summary: Package trees provides an abstract Tree interface.
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name: github.com/emirpasic/gods/containers
version: v1.18.1
type: go
summary: Package containers provides core interfaces and functions for data structures.
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name: golang.org/x/crypto/ssh/agent
version: v0.21.0
type: go
summary: Package agent implements the ssh-agent protocol, and provides both a client
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version: v5.12.0
type: go
summary: Package common implements the git pack protocol with a pluggable transport.
homepage: https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/transport/internal/common
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version: v5.12.0
type: go
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name: golang.org/x/sys/execabs
version: v0.18.0
type: go
summary: Package execabs is a drop-in replacement for os/exec that requires PATH lookups
to find absolute paths.
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version: v0.23.0
type: go
summary: Package context defines the Context type, which carries deadlines, cancelation
signals, and other request-scoped values across API boundaries and between processes.
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name: golang.org/x/crypto/openpgp/s2k
version: v0.21.0
type: go
summary: Package s2k implements the various OpenPGP string-to-key transforms as specified
 in RFC 4800 section 3.7.1.
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---
name: github.com/go-git/gcfg/scanner
version: v1.5.1-0.20230307220236-3a3c6141e376
type: go

summary: Package scanner implements a scanner for gcfg configuration text.
homepage: https://pkg.go.dev/github.com/go-git/gcfg/scanner
license: other
licenses:
- sources: gcfg/LICENSE
 text: |
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name: github.com/golang/groupcache/lru
version: v0.0.0-20210331224755-41bb18bfe9da
type: go
summary: Package lru implements an LRU cache.
homepage: https://pkg.go.dev/github.com/golang/groupcache/lru
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version: v5.12.0
type: go
summary: Package storer defines the interfaces to store objects, references, etc.
homepage: https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/storer
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name: dario.cat/mergo
version: v1.0.0
type: go
summary: A helper to merge structs and maps in Golang.
homepage: https://pkg.go.dev/dario.cat/mergo
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name: github.com/cloudflare/circl/internal/sha3
version: v1.3.7
type: go
summary: Package sha3 implements the SHA-3 fixed-output-length hash functions and
the SHAKE variable-output-length hash functions defined by FIPS-202.
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name: github.com/go-git/go-billy/v5/util

version: v5.5.0
type: go
summary:
homepage: https://pkg.go.dev/github.com/go-git/go-billy/v5/util
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version: v0.21.0
type: go
summary: Package argon2 implements the key derivation function Argon2.
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---
name: golang.org/x/sys/unix
version: v0.18.0
type: go
summary: Package unix contains an interface to the low-level operating system primitives.
homepage: https://pkg.go.dev/golang.org/x/sys/unix
license: other

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name: golang.org/x/crypto/blake2b
version: v0.21.0
type: go
summary: Package blake2b implements the BLAKE2b hash algorithm defined by RFC 7693
and the extendable output function (XOF) BLAKE2Xb.
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version: v0.3.0
type: go
summary: ubc package provides ways for SHA1 blocks to be checked for Unavoidable Bit
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---
name: github.com/ProtonMail/go-crypto/eax
version: v1.0.0
type: go

summary: 'Package eax provides an implementation of the EAX (encrypt-authenticate-translate)
 mode of operation, as described in Bellare, Rogaway, and Wagner "THE EAX MODE OF
 OPERATION: A TWO-PASS AUTHENTICATED-ENCRYPTION SCHEME OPTIMIZED FOR SIMPLICITY AND
 EFFICIENCY." In FSE"04, volume 3017 of LNCS, 2004'
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version: v5.12.0
type: go
summary: package hash provides a way for managing the underlying hash implementations
used across go-git.
homepage: https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/hash
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version: v1.18.1
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notices: []
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name: gopkg.in/warnings.v0
version: v0.1.2
type: go
summary: Package warnings implements error handling with non-fatal errors (warnings).
homepage: https://pkg.go.dev/gopkg.in/warnings.v0
license: bsd-2-clause
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---
name: github.com/google/go-querystring/query
version: v1.1.0
type: go
summary: Package query implements encoding of structs into URL query parameters.
homepage: https://pkg.go.dev/github.com/google/go-querystring/query

license: bsd-3-clause
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name: github.com/pkg/errors
version: v0.9.1
type: go
summary: Package errors provides simple error handling primitives.
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license: bsd-2-clause
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 text: |
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name: golang.org/x/oauth2
version: v0.19.0
type: go
summary: Package oauth2 provides support for making OAuth2 authorized and authenticated
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name: golang.org/x/crypto/openpgp/errors
version: v0.21.0
type: go
summary: Package errors contains common error types for the OpenPGP packages.
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version: v5.12.0
type: go
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version: v5.12.0
type: go
summary: Package ssh implements the SSH transport protocol.
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version: v0.23.0
type: go
summary: Package socks provides a SOCKS version 5 client implementation.
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version: v5.12.0
type: go
summary: Package noder provide an interface for defining nodes in a merkletrie, their
 hashes and their paths (a noders and its ancestors).
homepage: https://pkg.go.dev/github.com/go-git/go-git/v5/utils/merkletrie/noder
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---
name: github.com/jbenet/go-context/io
version: v0.0.0-20150711004518-d14ea06fba99
type: go
summary: Package ctxio provides io.Reader and io.Writer wrappers that respect context.Contexts.
homepage: https://pkg.go.dev/github.com/jbenet/go-context/io
license: mit
licenses:
- sources: go-context/LICENSE
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---

name: github.com/go-git/go-git/v5/plumbing/object
version: v5.12.0
type: go
summary: Package object contains implementations of all Git objects and utility functions
 to work with them.
homepage: https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/object
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name: golang.org/x/crypto/ssh/internal/bcrypt_pbkdf
version: v0.21.0
type: go
summary: Package bcrypt_pbkdf implements bcrypt_pbkdf(3) from OpenBSD.
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name: github.com/ProtonMail/go-crypto/openpgp
version: v1.0.0
type: go
summary: Package openpgp implements high level operations on OpenPGP messages.
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name: golang.org/x/crypto/curve25519
version: v0.21.0
type: go
summary: Package curve25519 provides an implementation of the X25519 function, which
performs scalar multiplication on the elliptic curve known as Curve25519.
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name: github.com/ProtonMail/go-crypto/openpgp/s2k
version: v1.0.0
type: go
summary: Package s2k implements the various OpenPGP string-to-key transforms as specified
in RFC 4800 section 3.7.1, and Argon2 specified in draft-ietf-openpgp-crypto-refresh-08
section 3.7.1.4.
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name: github.com/ProtonMail/go-crypto/brainpool
version: v1.0.0
type: go
summary: Package brainpool implements Brainpool elliptic curves.
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name: github.com/go-git/go-git/v5/plumbing/protocol/packp
version: v5.12.0
type: go
summary:
```

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name: github.com/go-git/go-git/v5/plumbing
version: v5.12.0
type: go
summary: package plumbing implement the core interfaces and structs used by go-git
homepage: https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing
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version: v0.21.0
type: go
summary: Package armor implements OpenPGP ASCII Armor, see RFC 4880.
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version: v1.2.0
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name: golang.org/x/crypto/cast5
version: v0.21.0
type: go
summary: Package cast5 implements CAST5, as defined in RFC 2144.
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version: v1.0.0
type: go
summary: Package packet implements parsing and serialization of OpenPGP packets, as
specified in RFC 4880.
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name: github.com/cloudflare/circl/dh/x448
version: v1.3.7
type: go
summary: Package x448 provides Diffie-Hellman functions as specified in RFC-7748.
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version: v0.23.0
type: go
summary: Package proxy provides support for a variety of protocols to proxy network
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---
name: github.com/cloudflare/circl/math
version: v1.3.7
type: go
summary: Package math provides some utility functions for big integers.
homepage: https://pkg.go.dev/github.com/cloudflare/circl/math
license: other
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name: github.com/skeema/knownhosts
version: v1.2.2
type: go
summary: Package knownhosts is a thin wrapper around golang.org/x/crypto/ssh/knownhosts,
adding the ability to obtain the list of host key algorithms for a known host.
homepage: https://pkg.go.dev/github.com/skeema/knownhosts
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name: github.com/emirpasic/gods/trees/binaryheap
version: v1.18.1
type: go
summary: Package binaryheap implements a binary heap backed by array list.
homepage: https://pkg.go.dev/github.com/emirpasic/gods/trees/binaryheap
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name: github.com/go-git/gcfg
version: v1.5.1-0.20230307220236-3a3c6141e376
type: go
summary: Package gcfg reads "INI-style" text-based configuration files with "name=value"
pairs grouped into sections (gcfg files).
homepage: https://pkg.go.dev/github.com/go-git/gcfg
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name: github.com/pjbgf/sha1cd
version: v0.3.0
type: go
summary: Package sha1cd implements collision detection based on the whitepaper Counter-cryptanalysis
from Marc Stevens.
homepage: https://pkg.go.dev/github.com/pjbgf/sha1cd
license: apache-2.0
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type: go
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version: v5.12.0
type: go
summary: Package packfile implements encoding and decoding of packfile format.
homepage: https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/format/packfile
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name: golang.org/x/crypto/ssh
version: v0.21.0
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summary: Package ssh implements an SSH client and server.
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version: v5.12.0
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---
name: golang.org/x/crypto/sha3
version: v0.21.0

type: go
summary: Package sha3 implements the SHA-3 fixed-output-length hash functions and
 the SHAKE variable-output-length hash functions defined by FIPS-202.
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name: github.com/cyphar/filepath-securejoin
version: v0.2.4
type: go
summary: Package securejoin is an implementation of the hopefully-soon-to-be-included
 SecureJoin helper that is meant to be part of the "path/filepath" package.
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name: github.com/go-git/go-git/v5/plumbing/protocol/packp/capability
version: v5.12.0
type: go
summary: Package capability defines the server and client capabilities.
homepage: https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/protocol/packp/capability
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version: v5.12.0
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name: github.com/spf13/pflag
version: v1.0.5
type: go
summary: Package pflag is a drop-in replacement for Go's flag package, implementing
POSIX/GNU-style --flags.
homepage: https://pkg.go.dev/github.com/spf13/pflag
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version: v5.12.0
type: go
summary: Package git implements the git transport protocol.
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name: github.com/go-git/go-git/v5/plumbing/format/gitignore
version: v5.12.0
type: go
summary: Package gitignore implements matching file system paths to gitignore patterns
that can be automatically read from a git repository tree in the order of definition
priorities.
homepage: https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/format/gitignore
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version: v1.3.2-0.20230802210424-5b0b94c5c0d3
type: go
summary: Package diffmatchpatch offers robust algorithms to perform the operations
 required for synchronizing plain text.
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1.5803 dario-mergo 1.0.1

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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

1.5804 otel-exporters-otlp-otlptrace 1.19.0

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1.5805 kubernetes-utils 0.0.0-20230726121419-3b25d923346b

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1.5810 jsonreference 0.20.2

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1.5811 x-sync 0.6.0

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1.5812 kubernetes-yaml 1.4.0

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```
package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
 Plugin     string
 Option     string
 Severity   string // 'deprecated', 'removed', or 'unsupported'
```

```
 ReplacedBy string
 Additional string
 Version    string
}

func (n *Notice) ToString() string {
 s := ""
 if n.Option == "" {
  s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
 } else {
  s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
 }
 if n.Severity == SevUnsupported {
  s += "is unsupported by this migration tool in " + n.Version + "."
 } else if n.Severity == SevNewDefault {
  s += "is added as a default in " + n.Version + "."
 } else {
  s += "is " + n.Severity + " in " + n.Version + "."
 }
 if n.ReplacedBy != "" {
  s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
 }
 if n.Additional != "" {
  s += " " + n.Additional
 }
 return s
}

const (
 // The following statuses are used to indicate the state of support/deprecation in a given release.
 SevDeprecated  = "deprecated"
  // deprecated, but still completely functional
 SevIgnored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
 SevRemoved     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present
in the Corefile
 SevNewDefault  = "newdefault"  // added to the default corefile.  CoreDNS may not function properly if it is not
present in the corefile.
 SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool

 // The following statuses are used for selecting/filtering notifications
 SevAll = "all" // show all statuses
)
```

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==========
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//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL string `json:"url,omitempty"`
}
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1.5821 terraform-plugin-log 0.9.0

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1.5822 aws-sdk-go-v2-internal-ini 1.8.0

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```
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package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
```

```
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-
Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil,
 err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
```

```
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err !=
 nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack);
 err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
```

```
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "AssociateLicense",
 }
}
```

AWS SDK for Go

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```
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
     - name: Checkout scancode
       uses: actions/checkout@v2
       with:
         repository: nexB/scancode-toolkit
         path: scancode-toolkit
         fetch-depth: 1
     - name: Set up Python ${{ matrix.python-version }}
        uses: actions/setup-python@v2
       with:
         python-version: ${{ matrix.python-version }}
     # ScanCode
     - name: Self-configure scancode
       working-directory: ./scancode-toolkit
       run: ./scancode --help
     - name: Run Scan code on target
       run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
     - name: Run Scan code on pr ref
       run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
```

```
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}
```

```
type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
```

```
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return
 err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckInLicense",
```

```
 }
}
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
      "type": "integer"
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
      "type": "long"
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
      "type": "structure",
      "members": {
        "Name": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The type of name to filter by.</p>"
          }
        },
        "Values": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
          "traits": {
            "smithy.api#documentation": "<p>One or more values for the name to filter by.</p>"
          }
        },
        "Operator": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
           "traits": {
            "smithy.api#documentation": "<p>An operator for filtering results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>A filter object that is used to return more specific results from a describe
operation.\n      Filters can be used to match a set of resources by specific criteria.</p>"
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
```

```
        },
        "output": {

          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
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          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
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        "traits": {
          "smithy.api#documentation": "<p>Lists the Linux subscriptions service settings.</p>",
          "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/subscription/GetServiceSettings"
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          "smithy.api#idempotent": {}
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      "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest":
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        "type": "structure",
        "members": {}
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      "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
          "LinuxSubscriptionsDiscovery": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
            "traits": {
              "smithy.api#documentation": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
            }
          },
          "LinuxSubscriptionsDiscoverySettings": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
            "traits": {
              "smithy.api#documentation": "<p>Lists the settings defined for Linux subscriptions discovery. The
settings include if\n      Organizations integration has been enabled, and
 which Regions data will be aggregated from.</p>"
            }
          },
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            "Status": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being
applied.</p>"
                }
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
                "traits": {
                    "smithy.api#documentation": "<p>A message which details the Linux subscriptions service settings
current status.</p>"
                }
            },
            "HomeRegions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>The Region in which License Manager displays
 the aggregated data for Linux\n      subscriptions.</p>"
                }
            }
        }
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    "com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
        "type": "structure",
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                "traits": {
                    "smithy.api#documentation": "<p>The AMI ID used to launch the instance.</p>"
                }
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            "InstanceID": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The instance ID of the resource.</p>"
                }
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            "InstanceType": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The instance type of the resource.</p>"
                }

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            "AccountID": {
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"smithy.api#documentation": " The account ID which owns the instance. "
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"Status": {
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"traits": {
"smithy.api#documentation": " The status of the instance. "
}
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"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The Region the instance is running in. "
}
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"traits": {
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"traits": {
"smithy.api#documentation": " The product code for the instance. For more information, see Usage\n operation values in the License Manager User Guide . "
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"LastUpdatedTime": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The time in which the last discovery updated the instance details. "
}
},
"SubscriptionName": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the subscription being used by the instance. "
}
}
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"traits": {
"smithy.api#documentation": " Details discovered information about a running instance using Linux

subscriptions. "
}
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"com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
}
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"com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
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"traits": {
"smithy.api#documentation": " An exception occurred with the service. ",
"smithy.api#error": "server"
}
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"com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
"type": "service",
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"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
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"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
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"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
}
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"sdkId": "License Manager Linux Subscriptions",
"arnNamespace": "license-manager-linux-subscriptions",
"cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
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"aws.auth#sigv4": {
"name": "license-manager-linux-subscriptions"
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"aws.protocols#restJson1": {},
"smithy.api#cors": {
"additionalAllowedHeaders": [
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"x-amz-content-sha256",
"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",
"x-api-key",
"authorization",
"x-amz-date",

"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"
]
},
"smithy.api#documentation": " With License Manager, you can discover and track your commercial Linux subscriptions on running\n Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager Linux Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
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"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
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"UseFIPS": {
"builtIn": "AWS::UseFIPS",

"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",

"type": "Boolean"
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"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
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"ref": "Endpoint"
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"argv": [
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"type": "error"
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                  "type": "error"
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                                            "properties": {},
                                            "headers": {}
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                                          "type": "endpoint"
                                        }
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                                    }
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                    ]

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"ref": "UseFIPS"
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                                        "argv": [
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                                                "ref": "PartitionResult"
                                            },
                                            "supportsFIPS"
                                        ]
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"error": "FIPS is enabled but this partition does not support FIPS",
"type": "error"
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"error": "Invalid Configuration: Missing Region",
"type": "error"
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"smithy.rules#endpointTests": {
"testCases": [
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
}
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"params": {
"Region": "us-east-1",
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"UseDualStack": true
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"documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {

"endpoint": {
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    "params": {
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    "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
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    "params": {
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{
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
    "expect": {
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"url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
}
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"params": {
"Region": "cn-north-1",
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"UseDualStack": false
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}
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"params": {
"Region": "cn-north-1",
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"url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
}
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"params": {
"Region": "cn-north-1",
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"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
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}
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"params": {
"Region": "us-gov-east-1",
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                }
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                }
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              "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
              "expect": {
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              "params": {
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"expect": {
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"UseDualStack": false
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"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
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"params": {
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"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
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"params": {
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"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
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"expect": {
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"UseDualStack": false
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"params": {
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"UseFIPS": false,
"UseDualStack": false
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"expect": {

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"params": {
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"UseFIPS": false,
"UseDualStack": false,
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}
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"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",

"expect": {
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"params": {
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"UseDualStack": false,
"Endpoint": "https://example.com"
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"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
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"params": {
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"UseFIPS": true,
"UseDualStack": false,

"Endpoint": "https://example.com"
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"Endpoint": "https://example.com"
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{
"documentation": "Missing region",
"expect": {
"error": "Invalid Configuration: Missing Region"
}

}
],
"version": "1.0"
}
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"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "Enabled",
"value": "Enabled",
"documentation": "Enabled LinuxSubscriptionsDiscovery"
},
{
"name": "Disabled",
"value": "Disabled",
"documentation": "Disabled LinuxSubscriptionsDiscovery"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
"type": "structure",
"members": {
"SourceRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Regions in which to discover data for Linux subscriptions. ",
"smithy.api#required": {}
}
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"OrganizationIntegration": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
"traits": {
"smithy.api#documentation": " Details if you have enabled resource discovery across your accounts in Organizations. ",

"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Lists the settings defined for discovering Linux subscriptions. "
}
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"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances": {
"type":
"operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the running Amazon EC2 instances that were discovered with
commercial Linux\n subscriptions. ",
"smithy.api#http": {

"code": 200,
"method": "POST",
"uri": "/subscription/ListLinuxSubscriptionInstances"
},
"smithy.api#idempotent": {},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "Instances"
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest": {
"type": "structure",

"members": {
"Filters": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. For example, you can filter by the name of\n <code>AmiID</code> with an optional operator to see subscriptions that match, partially\n match, or don't match a certain Amazon Machine Image (AMI) ID. \n The valid names for this filter are: \n \n \n \n <code>AmiID</code>\n \n \n \n \n <code>InstanceID</code>\n \n \n \n \n <code>AccountID</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n <code>Region</code>\n \n \n \n \n <code>UsageOperation</code>\n \n \n \n \n <code>ProductCode</code>\n \n \n \n \n <code>InstanceType</code>\n \n \n \n The valid Operators for this filter are: \n \n \n \n <code>contains</code>\n \n \n \n \n <code>equals</code>\n \n \n \n \n <code>Notequal</code>\n \n \n "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "

}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. ",
"smithy.api#length": {
"min": 1,
"max": 16384
}
}
}
},
"traits": {
"smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if parameters in request increases."
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
"type": "structure",
"members": {
"Instances": {

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
"traits": {
"smithy.api#documentation":
" An array that contains instance objects. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the Linux subscriptions that have been discovered. If you have linked your\n organization, the returned results will include data aggregated across your accounts in\n Organizations. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/ListLinuxSubscriptions"
},
"smithy.api#idempotent": {},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "Subscriptions"

```
            }

        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify. For example, you can filter by the name of\n
 <code>Subscription</code> with an optional operator to see subscriptions that match,\n      partially match, or don't
match a certain subscription's name.</p>\n         <p>The valid names for this filter are:</p>\n         <ul>\n
<li>\n              <p>\n                  <code>Subscription</code>\n              </p>\n           </li>\n         </ul>\n
<p>The valid Operators for this filter are:</p>\n
         <ul>\n           <li>\n              <p>\n                  <code>contains</code>\n              </p>\n           </li>\n
<li>\n              <p>\n                  <code>equals</code>\n              </p>\n           </li>\n           <li>\n              <p>\n
              <code>Notequal</code>\n              </p>\n           </li>\n         </ul>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>",
                    "smithy.api#length": {

                        "min": 1,
                        "max": 16384
                    }
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
        "type": "structure",
        "members": {
            "Subscriptions": {
```

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
"traits": {
"smithy.api#documentation": " An array that contains subscription objects. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for
the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "EQUAL",
"value": "Equal",
"documentation": "Equal operator"
},
{
"name": "NOT_EQUAL",
"value": "NotEqual",
"documentation": "Not equal operator"
},
{
"name": "CONTAINS",
"value": "Contains",
"documentation": "Contains operator"
}
],
"smithy.api#length": {
"min": 1,
"max": 20
}
}
},

"com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "Enabled",
"value": "Enabled",

"documentation": "Enabled OrganizationIntegration"
},
{
"name": "Disabled",
"value": "Disabled",
"documentation": "Disabled OrganizationIntegration"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
"type": "list",
"member": {
"target": "smithy.api#String"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
"type": "string",
"traits": {
"smithy.api#enum": [

{
"name": "InProgress",
"value": "InProgress",
"documentation": "InProgress status"
},
{
"name": "Completed",
"value": "Completed",
"documentation": "Completed status"
},
{
"name": "Successful",
"value": "Successful",
"documentation": "Successful status"
},
{
"name": "Failed",
"value": "Failed",
"documentation": "Failed status"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
"type": "list",
"member": {
"target": "smithy.api#String",

"traits":
{
"smithy.api#length": {
"min": 1,
"max": 100
}
}
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 100
},
"smithy.api#uniqueItems": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
"type": "map",
"key": {
"target": "smithy.api#String"
},
"value": {
"target": "smithy.api#String"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
"type": "structure",
"members": {
"Name": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the subscription. "

}
},
"Type": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own\n Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the\n Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS. "
}
},
"InstanceCount": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
"traits": {
"smithy.api#documentation": " The total amount of running instances using this subscription. "

```
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>An object which details a discovered Linux
subscription.</p>"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
        "type": "structure",
        "members": {
          "message": {
            "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The request was denied due to request throttling.</p>",
          "smithy.api#error": "client"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
        },

      "output": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
          },
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Updates the service settings for Linux subscriptions.</p>",
```

"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/UpdateServiceSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest":
{
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Describes if the discovery of Linux subscriptions is enabled. ",
"smithy.api#required": {}
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The
settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated
from. ",

"smithy.api#required": {}
}
},
"AllowUpdate": {
"target": "smithy.api#Boolean",
"traits": {
"smithy.api#documentation": " Describes if updates are allowed to the service settings for Linux
subscriptions. If you\n allow updates, you can aggregate Linux subscription data in more than one home
Region. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},

"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation": " A message which details the Linux subscriptions service settings current status. "
}
},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Region in which License Manager displays the aggregated data for Linux\n subscriptions. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The provided input is not valid. Try your request again. ",
"smithy.api#error": "client"
}
}
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //   - Beneficiary
 //   - ProductSKU
 //   - Fingerprint
 //
   - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string
```

```
 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if
 err := addProtocolFinalizerMiddlewares(stack, options, "ListLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
```

```
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}
```

```
func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:
    ServiceID,
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 //
 This member is required.
 LicenseType types.LicenseType
```

```
 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack,
 options, "DisassociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata
 {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
```

```
 out.ResultMetadata = metadata
 return out, nil
}

type
 CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
```

```
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource
 Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil
 {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
```

```
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack);
err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }
```

```
 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier
 that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
```

```
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutBorrowLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
```

```
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return
err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }
```

```
 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide
 to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
 // borrow configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //
 // This member is required.
 LicenseName *string

 // Product name.
 //
```

```
 // This member is required.
 ProductName *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity
 *types.DatetimeRange

 // Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
```

```
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
 return fmt.Errorf("add
protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName:
 "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
```

```
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
```

```
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return
err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
```

```
 if err = addOpGetLicenseValidationMiddleware(stack);
 err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "GetLicense",
 }
}
```

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```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
```

```
//
  - ProductSKU
//   - Status
//   - Fingerprint
//   - IssuerName
//   - Beneficiary
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
 return err
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{},
middleware.After)
if err != nil {
 return err
}
```

```
if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack);
err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
```

```
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "ListReceivedLicenses",
 }
}
```

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```
{
  "smithy": "2.0",
  "shapes": {
```

"com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " You don't have sufficient access to perform this action. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
"type": "structure",
"members": {
"DirectoryId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The directory ID for an Active Directory identity provider. "
}
}
},
"traits": {
"smithy.api#documentation":
" Details about an Active Directory identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUser": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"

```
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Associates the user to an EC2 instance to utilize user-based
subscriptions.</p>\n        <note>\n            <p>Your estimated bill for charges on the number of users and related
costs will take 48\n        hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing
status) in Amazon Web Services Billing. For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n
        monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n        </note>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/AssociateUser"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the
 EC2 instance, which provides user-based subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>The identity provider of the user.</p>",
```

"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse": {
"type": "structure",
"members": {
"InstanceUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#BoxInteger": {
"type": "integer"
},
"com.amazonaws.licensemanagerusersubscriptions#ConflictException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request couldn't be completed because it conflicted with the current state of the\n resource. ",
"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deregisters the identity provider from providing user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/DeregisterIdentityProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",

```
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse": {
    "type": "structure",
    "members": {
        "IdentityProviderSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
            "traits": {
                "smithy.api#documentation":
"<p>Metadata that describes the results of an identity provider operation.</p>",
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUser": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse"
    },
    "errors": [
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            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
         },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
```

```
        ],
        "traits": {
            "smithy.api#documentation": "<p>Disassociates the user from an EC2 instance providing user-based
subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/DisassociateUser"
            },
            "smithy.api#idempotent": {}
        }

    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation":
 "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse": {
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"type": "structure",
"members": {
"InstanceUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}
}
}
}
},

"com.amazonaws.licensemanagerusersubscriptions#Filter": {
"type": "structure",
"members": {
"Attribute": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of an attribute to use as a filter. "
}
},
"Operation": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of search (For example, eq, geq, leq) "
}
},
"Value": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Value of the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter name and value pair that is used
to return more specific results from a describe\n operation. Filters can be used to match a set of resources by
specific criteria, such as tags,\n attributes, or IDs. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
}
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
"type": "union",

"members": {
"ActiveDirectoryIdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
"traits": {
"smithy.api#documentation": " An object that details an Active Directory identity provider. "
}
}
},
"traits": {
"smithy.api#documentation":
" Details about an identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Settings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
"traits": {
"smithy.api#documentation": " An object that details the registered identity providers product
related configuration\n settings such as the subnets to provision VPC endpoints. ",
"smithy.api#required":
{}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of an identity provider. ",
"smithy.api#required": {}
}
},
"FailureMessage": {
"target": "smithy.api#String",

```
                "traits": {
                    "smithy.api#documentation": "<p>The failure message associated with an identity provider.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation":
 "<p>Describes an identity provider.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary": {
        "type": "structure",
        "members": {
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status
 of an EC2 instance resource.</p>",
                    "smithy.api#required": {}
                }
            },
            "Products": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>A list of provided user-based subscription products.</p>",
                    "smithy.api#required": {}
                }
            },
            "LastStatusCheckDate": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The date of the last status check.</p>"
                }
            },
```

"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for an EC2 instance. "
}

}
},
"traits": {
"smithy.api#documentation": " Describes an EC2 instance providing user-based subscriptions. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
},
"InstanceId": {
"target": "smithy.api#String",
"traits":
{
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based
subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of a user associated with an EC2 instance. ",

"smithy.api#required": {}
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for users of an EC2 instance. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"AssociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was associated with an EC2 instance. "
}
},
"DisassociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was disassociated from an EC2 instance. "
}
}

},
"traits": {
"smithy.api#documentation": " Describes users of an EC2 instance providing user-based subscriptions. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InternalServerException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {

"smithy.api#documentation": " An exception occurred with the service. ",
"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
"type": "service",

"version": "2018-05-10",
"operations": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUser"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"

},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
}
],
"traits": {
"aws.api#service": {
"sdkId": "License Manager User Subscriptions",
"arnNamespace": "license-manager-user-subscriptions",

"cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
},
"aws.auth#sigv4": {
"name": "license-manager-user-subscriptions"
},
"aws.protocols#restJson1": {},
"smithy.api#cors": {
"additionalAllowedHeaders": [
"*",
"content-type",
"x-amz-content-sha256",
"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",
"x-api-key",
"authorization",
"x-amz-date",
"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"

]
},
"smithy.api#documentation": " With License Manager, you can create user-based subscriptions to utilize licensed software with\n a per user subscription fee on Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager User Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack

endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}

},
"rules": [
{
"conditions": [
{
"fn": "isSet",
"argv": [
{
"ref": "Endpoint"
}
]
}
],
"type": "tree",
"rules": [
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseFIPS"
},

true
]
}
],
"error": "Invalid Configuration: FIPS and custom endpoint are not supported",
"type": "error"

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            },
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                        "fn": "booleanEquals",
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                            {
                                "ref": "UseDualStack"
                            },
                            true
                        ]
                    }
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"error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                "type": "error"
            },
            {
                "conditions": [],
                "endpoint": {
                    "url": {
                        "ref": "Endpoint"
                    },
                    "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
            }
        ]
    },
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        "conditions": [
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{
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        "type": "tree",
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                "conditions": [
                    {
                        "fn": "aws.partition",
```

```
                "argv": [
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                  }
                ],
                "assign": "PartitionResult"
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                "conditions": [
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                    "argv": [
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                        "ref": "UseFIPS"
                      },
                      true
                    ]
                  },
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      {
                        "ref": "UseDualStack"

                      },
                      true
                    ]
                  }
                ],
                "type": "tree",
                "rules": [
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                    "conditions": [
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                        "argv": [
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                          {
                            "fn": "getAttr",

    "argv": [
                                  {
                                    "ref": "PartitionResult"
                                  },
```

"supportsFIPS"
]
}
]
},
{
"fn": "booleanEquals",
"argv": [
true,
{

"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},
"supportsDualStack"
]
}
]
}
],
"type": "tree",
"rules": [
{

"conditions": [],
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
},
{
"conditions": [],
"error": "FIPS and DualStack are enabled, but this partition does not support one or both",
"type": "error"
}
]
},
{
"conditions": [
{

```
                "fn": "booleanEquals",
                "argv": [
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                    "ref": "UseFIPS"
                  },
                  true
                ]
              }
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        "rules": [
              {
                "conditions": [
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      true,
                      {
                        "fn": "getAttr",
                        "argv": [
                          {
                            "ref": "PartitionResult"
                          },
                          "supportsFIPS"

                 ]
                      }
                    ]
                  }
                ],
                "type": "tree",
                "rules": [
                  {
                    "conditions": [],
                    "endpoint": {
                      "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                      "properties": {},
                      "headers": {}

            },
                    "type": "endpoint"
                  }
                ]
              },
              {
                "conditions": [],
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                "error": "FIPS is enabled but this partition does not support FIPS",
                "type": "error"
            }
        ]
    },
    {
        "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [
                    {
                        "ref": "UseDualStack"
                    },
                    true
                ]
            }
        ],
        "type": "tree",
        "rules": [
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                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            true,
                            {

                                "fn": "getAttr",
                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },
                                    "supportsDualStack"
                                ]
                            }
                        ]
                    }
                ],
                "type": "tree",
                "rules": [
                    {

                        "conditions": [],
                        "endpoint": {
                            "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                            "properties": {},
                            "headers": {}
```

```
                                    },
                                    "type": "endpoint"
                                }
                            ]
                        },
                        {
                            "conditions": [],
                            "error": "DualStack is enabled but this partition does
not support DualStack",
                            "type": "error"
                        }
                    ]
                },
                {
                    "conditions": [],
                    "endpoint": {
                        "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
                        "properties": {},
                        "headers": {}
                    },
                    "type": "endpoint"
                }
            ]
        }
    ]
},
{
    "conditions":
[],
    "error": "Invalid Configuration: Missing Region",
    "type": "error"
}
]
},
"smithy.rules#endpointTests": {
    "testCases": [
        {
            "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
                }
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": true
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            }
        },
        {
            "documentation":
"For region us-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
                }
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": false
            }
        },
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            "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
                }
            },

        "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
                }
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region cn-north-1 with
FIPS enabled and DualStack enabled",
            "expect": {
                "endpoint": {
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"url": "https://license-manager-user-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
}
},

"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,

"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1
with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {

"url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect":
{
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack":
true
}
},
{

"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but
this partition does not support one or both"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}

},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
}

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        },
        {
          "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
            }
          },
           "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
          "expect": {
            "endpoint": {
              "url": "https://example.com"
            }
          },
          "params": {
            "Region": "us-east-1",
            "UseFIPS": false,
            "UseDualStack": false,
            "Endpoint": "https://example.com"
          }
        },
        {

"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
          "expect": {
            "endpoint": {
              "url": "https://example.com"
            }
          },
          "params": {
            "UseFIPS": false,
            "UseDualStack": false,
            "Endpoint": "https://example.com"
          }
        },
        {
          "documentation": "For custom endpoint with fips enabled and dualstack disabled",
          "expect": {
            "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
          },
          "params": {
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                "Region": "us-east-1",
                 "UseFIPS": true,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "For custom endpoint with fips disabled and dualstack enabled",
            "expect": {
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": true,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "Missing region",
            "expect": {
                 "error": "Invalid Configuration: Missing Region"
            }
        }
    ],
    "version": "1.0"
  }
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {
  "type": "operation",
  "input": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
  },
  "output": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
  },
  "errors": [
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
     },
    {
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"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the identity providers for user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/ListIdentityProviders"
},
"smithy.api#paginated":
{
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "IdentityProviderSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest": {
"type": "structure",
"members": {
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse":
{
"type": "structure",

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    "members": {
      "IdentityProviderSummaries": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList",
        "traits": {
          "smithy.api#documentation": "<p>Metadata that describes the list identity providers operation.</p>",
          "smithy.api#required": {}
        }
      },
      "NextToken": {
        "target": "smithy.api#String",
        "traits": {
          "smithy.api#documentation": "<p>Token for the next set of results.</p>"
        }
      }
    }
  },
  "com.amazonaws.licensemanagerusersubscriptions#ListInstances": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
      }
    ],
    "traits": {
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"smithy.api#documentation": " Lists the EC2 instances providing user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/instance/ListInstances"
},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "InstanceSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest": {
"type": "structure",
"members": {
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse": {
"type": "structure",
"members": {
"InstanceSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list instances operation. "
}
},

```
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the user-based subscription products available from an identity
provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/ListProductSubscriptions"
            },
            "smithy.api#paginated": {
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"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "ProductUserSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest": {
"type": "structure",
"members": {
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name
of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {

"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match
one or\n more sets of key-value pairs that you specify. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse": {

"type": "structure",
"members": {
"ProductUserSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list product subscriptions operation. "
}
},

"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"

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            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists user associations for an identity provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/ListUserAssociations"
            },
            "smithy.api#paginated":
{
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "InstanceUserSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest": {
        "type": "structure",
        "members": {
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity
 provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify.</p>"
```

```
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for
the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse": {
    "type": "structure",
    "members": {
        "InstanceUserSummaries": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList",
            "traits": {
                "smithy.api#documentation": "<p>Metadata that describes the list user association operation.</p>"
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary": {
    "type": "structure",
    "members": {

    "Username": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
                "smithy.api#required": {}
            }
        },
        "Product": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                "smithy.api#required": {}
            }
        },
        "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
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"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}

},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of a product for a user. ",
"smithy.api#required": {}
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for a product for a user. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"SubscriptionStartDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The
start date of a subscription. "
}
},
"SubscriptionEndDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The end date of a subscription. "
}
}
},
"traits": {
"smithy.api#documentation": " The summary of the user-based subscription products for a user. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
}

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},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Registers an identity provider for user-based subscriptions.</p>",
        "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/identity-provider/RegisterIdentityProvider"
        },
        "smithy.api#idempotent": {}
    }
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest": {
    "type": "structure",
    "members": {
        "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
```

"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Settings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings such as the\n subnets to provision VPC endpoints. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the results of an identity provider operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The resource couldn't be found. ",
"smithy.api#error": "client",
"smithy.api#httpError": 404
}
},

"com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
"type": "string",

"traits": {
"smithy.api#length": {
"min": 5,
"max": 200
},
"smithy.api#pattern": "^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request failed because a service quota is exceeded. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#Settings": {
"type": "structure",
"members": {
"Subnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation":
" The subnets defined for the registered identity provider. ",
"smithy.api#length": {
"min": 1
},
"smithy.api#required": {}
}
},
"SecurityGroupId": {
"target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
"traits": {
"smithy.api#documentation": " A security group ID that allows inbound TCP port 1688
communication between resources in\n your VPC and the VPC endpoint for activation servers. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings

such as the\n subnets to provision VPC endpoints, and the security group ID that
is associated with the VPC\n endpoints. The security group should permit inbound TCP port 1688
communication from resources\n in the VPC. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Starts a product subscription for a user with the specified identity
provider. \n <note>\n Your estimated bill for charges on the number of users and related costs
will take 48\n hours to appear for billing periods that haven't closed (marked as Pending billing status)
in Amazon Web Services Billing.
For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n monthly
charges in the Amazon Web Services Billing User Guide. \n </note>",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/StartProductSubscription"

```
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                 "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse": {
        "type": "structure",
         "members": {
            "ProductUserSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the start product subscription
operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
```

"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"

},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Stops a product subscription for a user with the specified identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/StopProductSubscription"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {

"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required":
{}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse": {
"type": "structure",
"members": {
"ProductUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
"traits": {
"smithy.api#documentation":
" Metadata that describes the start product subscription operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StringList": {
"type": "list",
"member": {
"target": "smithy.api#String"
}
},
"com.amazonaws.licensemanagerusersubscriptions#Subnet": {
"type": "string",

"traits": {
"smithy.api#pattern": "subnet-[a-z0-9]{8,17}"
}
},
"com.amazonaws.licensemanagerusersubscriptions#Subnets": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnet"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ThrottlingException": {
"type": "structure",
"members": {
"message": {

"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request was denied because of request throttling. Retry the request. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates additional product configuration settings for the registered

identity\n provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/UpdateIdentityProviderSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"UpdateSettings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings",
"traits": {
"smithy.api#documentation": " Updates the registered identity providers product related configuration settings. You can\n update any combination of settings in a single operation such as the: \n \n \n Subnets which you want to add to provision VPC endpoints. \n \n \n Subnets which you want to remove the VPC endpoints from. \n \n \n Security group ID which permits traffic to the VPC endpoints. \n \n ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#required": {}
}
}
}

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings": {
      "type": "structure",
      "members": {
        "AddSubnets": {

         "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
          "traits": {
            "smithy.api#documentation": "<p>The ID of one or more subnets in which License Manager will
create a VPC endpoint for products that\n      require connectivity to activation servers.</p>",
            "smithy.api#required": {}
          }
        },
        "RemoveSubnets": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
          "traits": {
            "smithy.api#documentation": "<p>The ID of one or more subnets to remove.</p>",
            "smithy.api#required": {}
          }
        },
        "SecurityGroupId": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
          "traits": {
            "smithy.api#documentation": "<p>A security group ID
 that allows inbound TCP port 1688 communication between resources in\n      your VPC and the VPC endpoints for
activation servers.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Updates the registered identity providers product related configuration
settings such as\n      the subnets to provision VPC endpoints.</p>"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ValidationException": {
      "type": "structure",
      "members": {
        "message": {
          "target": "smithy.api#String"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>A parameter is not valid.</p>",
        "smithy.api#error": "client"
      }
    }
  }
}
```

```
{
  "smithy": "2.0",
  "metadata": {
    "suppressions": [
      {
        "id": "HttpMethodSemantics",
        "namespace": "*"
      },
      {
        "id": "HttpResponseCodeSemantics",
        "namespace": "*"
      },
      {
        "id": "PaginatedTrait",
        "namespace": "*"
      },
      {
        "id": "HttpHeaderTrait",
        "namespace": "*"
      },
      {
        "id": "HttpUriConflict",
        "namespace": "*"
      },
      {
        "id": "Service",
        "namespace": "*"
      }
    ]
  },
  "shapes": {
    "com.amazonaws.licensemanager#AWSLicenseManager": {
      "type": "service",
      "version": "2018-08-01",
      "operations": [
        {
          "target": "com.amazonaws.licensemanager#AcceptGrant"
        },

 {
          "target": "com.amazonaws.licensemanager#CheckInLicense"
        },
        {
          "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
        },
        {
          "target": "com.amazonaws.licensemanager#CheckoutLicense"
        },
```

```
    {
      "target": "com.amazonaws.licensemanager#CreateGrant"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateGrantVersion"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateLicense"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateLicenseVersion"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateToken"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteGrant"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicense"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteToken"
    },
    {
      "target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

  },
    {
      "target": "com.amazonaws.licensemanager#GetAccessToken"
    },
    {
      "target": "com.amazonaws.licensemanager#GetGrant"
```

},
{
"target": "com.amazonaws.licensemanager#GetLicense"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseUsage"
},
{
"target": "com.amazonaws.licensemanager#GetServiceSettings"
},
{
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#ListDistributedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConfigurations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
},
{
"target": "com.amazonaws.licensemanager#ListLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
},
{

"target": "com.amazonaws.licensemanager#ListLicenseVersions"
},
{

"target": "com.amazonaws.licensemanager#ListReceivedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganization"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization"
},
{
"target": "com.amazonaws.licensemanager#ListResourceInventory"
},
{
"target": "com.amazonaws.licensemanager#ListTagsForResource"
},
{
"target": "com.amazonaws.licensemanager#ListTokens"
},
{
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#RejectGrant"
},
{
"target": "com.amazonaws.licensemanager#TagResource"
},
{
"target": "com.amazonaws.licensemanager#UntagResource"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
},
{
"target": "com.amazonaws.licensemanager#UpdateServiceSettings"
}
],
"traits": {
"aws.api#service": {

"sdkId": "License Manager",
"arnNamespace": "license-manager",
"cloudFormationName": "LicenseManager",
"cloudTrailEventSource": "licensemanager.amazonaws.com",
"endpointPrefix": "license-manager"
},
"aws.auth#sigv4": {
"name": "license-manager"
},
"aws.protocols#awsJson1_1": {},
"smithy.api#documentation": " License Manager makes it easier to manage licenses from software vendors across multiple \n Amazon Web Services accounts and on-premises servers. ",
"smithy.api#title": "AWS License Manager",
"smithy.api#xmlNamespace": {
"uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
},
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}

```
    },
    "rules": [
      {
        "conditions": [
          {
            "fn": "isSet",
            "argv": [
              {
                "ref": "Endpoint"
              }
            ]

        }
        ],
        "type": "tree",
        "rules": [
          {
            "conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  {
                    "ref": "UseFIPS"
                  },
                  true
                ]
              }
            ],
            "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
            "type": "error"
          },
          {

"conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  {
                    "ref": "UseDualStack"
                  },
                  true
                ]
              }
            ],
            "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
            "type": "error"
          },
          {
```

```
                "conditions": [],
                "endpoint": {
                  "url": {
                    "ref": "Endpoint"
                  },
                  "properties": {},
                  "headers": {}
                },
                "type": "endpoint"
              }
            ]
          },
          {
            "conditions": [
              {
                "fn": "isSet",
                "argv": [
                  {
                    "ref": "Region"
                  }
                ]
              }
            ],
            "type": "tree",
            "rules": [
              {
                "conditions": [
                  {
                    "fn": "aws.partition",
                    "argv": [
                      {
                        "ref": "Region"
                      }
                    ],
                    "assign": "PartitionResult"
                  }
                ],
                "type": "tree",
                "rules": [
                  {
                    "conditions": [
                      {
                        "fn": "booleanEquals",
                        "argv": [
                          {
                            "ref":
"UseFIPS"
                          },
```

```
                    true
                ]
            },
            {
                "fn": "booleanEquals",
                "argv": [
                    {
                        "ref": "UseDualStack"
                    },
                    true
                ]
            }
        ],
        "type": "tree",
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            true,
                            {
                                "fn": "getAttr",
                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },
                                    "supportsFIPS"
                                ]

                }
                        ]
                    },
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            true,
                            {
                                "fn": "getAttr",
                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },

"supportsDualStack"
                                ]
                            }
                        ]
```

```
                    }
                ],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [],
                        "endpoint": {
                            "url": "https://license-manager-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                            "properties": {},
                            "headers": {}

            },
                        "type": "endpoint"
                    }
                ]
            },
            {
                "conditions": [],
                "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
                "type": "error"
            }
        ]
    },
    {
        "conditions": [
            {
                "fn": "booleanEquals",

          "argv": [
                    {
                        "ref": "UseFIPS"
                    },
                    true
                ]
            }
        ],
        "type": "tree",
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            true,
```

```
{
                "fn": "getAttr",
                "argv": [
                  {
                    "ref": "PartitionResult"
                  },
                  "supportsFIPS"
                ]
              }
            ]
          }
        ],
        "type": "tree",
        "rules": [

{
            "conditions": [],
            "endpoint": {
              "url": "https://license-manager-fips.{Region}.{PartitionResult#dnsSuffix}",
              "properties": {},
              "headers": {}
            },
            "type": "endpoint"
          }
        ]
      },
      {
        "conditions": [],
        "error": "FIPS is enabled but this
partition does not support FIPS",
        "type": "error"
      }
    ]
  },
  {
    "conditions": [
      {
        "fn": "booleanEquals",
        "argv": [
          {
            "ref": "UseDualStack"
          },
          true
        ]
      }
    ],
    "type": "tree",
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                "rules": [
                  {
                    "conditions": [
                      {
                        "fn": "booleanEquals",
                        "argv": [
                          true,
                          {
                            "fn": "getAttr",
                            "argv": [
                              {
                                "ref": "PartitionResult"
                              },

"supportsDualStack"
                            ]
                          }
                        ]
                      }
                    ],
                    "type": "tree",
                    "rules": [
                      {
                        "conditions": [],
                        "endpoint": {
                          "url": "https://license-
manager.{Region}.{PartitionResult#dualStackDnsSuffix}",
                          "properties": {},
                          "headers": {}

                },
                        "type": "endpoint"
                      }
                    ]
                  },
                  {
                    "conditions": [],
                    "error": "DualStack is enabled but this partition does not support DualStack",
                    "type": "error"
                  }
                ]
              },
              {
                "conditions": [],
                "endpoint": {
                  "url": "https://license-manager.{Region}.{PartitionResult#dnsSuffix}",
                   "properties": {},
                  "headers": {}
```

```
                    },
                    "type": "endpoint"
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            ]
        }
    ]
},
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    "conditions": [],
    "error": "Invalid Configuration: Missing Region",
    "type": "error"
}
]
},
"smithy.rules#endpointTests": {
    "testCases": [
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            "documentation": "For region af-south-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint":
{
                    "url": "https://license-manager.af-south-1.amazonaws.com"
                }
            },
            "params": {
                "Region": "af-south-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
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            "documentation": "For region ap-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.ap-east-1.amazonaws.com"
                }
            },
            "params": {
                "Region": "ap-east-1",
                "UseFIPS": false,
                "UseDualStack": false
             }
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            "documentation": "For region ap-northeast-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.ap-northeast-1.amazonaws.com"
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            }
        },
        "params": {
            "Region": "ap-northeast-1",
            "UseFIPS": false,
            "UseDualStack": false
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        "documentation": "For region ap-northeast-2 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.ap-northeast-2.amazonaws.com"
             }
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        "params": {
            "Region": "ap-northeast-2",
            "UseFIPS": false,
            "UseDualStack": false
        }
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    {
        "documentation": "For region ap-northeast-3 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.ap-northeast-3.amazonaws.com"
            }
        },
        "params": {
            "Region": "ap-northeast-3",
            "UseFIPS": false,
            "UseDualStack": false
        }

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    {
        "documentation": "For region ap-south-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.ap-south-1.amazonaws.com"
            }
        },
        "params": {
            "Region": "ap-south-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
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{
"documentation": "For region ap-southeast-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-southeast-1.amazonaws.com"

}
},
"params": {
"Region": "ap-southeast-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region ap-southeast-2 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-southeast-2.amazonaws.com"
}
},
"params": {
"Region": "ap-southeast-2",
"UseFIPS": false,
"UseDualStack": false
}
},
{

"documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-southeast-3.amazonaws.com"
}
},
"params": {
"Region": "ap-southeast-3",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region ca-central-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ca-central-1.amazonaws.com"
}
},

"params": {
"Region": "ca-central-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-central-1.amazonaws.com"
}
},
"params": {
"Region": "eu-central-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region eu-north-1 with FIPS
disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-north-1.amazonaws.com"
}
},
"params": {
"Region": "eu-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-south-1.amazonaws.com"
}
},
"params": {
"Region":
"eu-south-1",
"UseFIPS": false,
"UseDualStack": false
}
},

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        {
          "documentation": "For region eu-west-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.eu-west-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "eu-west-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region eu-west-2 with FIPS disabled and DualStack disabled",
          "expect": {

          "endpoint": {
              "url": "https://license-manager.eu-west-2.amazonaws.com"
            }
          },
          "params": {
            "Region": "eu-west-2",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region eu-west-3 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.eu-west-3.amazonaws.com"
            }
          },
          "params": {
            "Region": "eu-west-3",
            "UseFIPS": false,

"UseDualStack": false
          }
        },
        {
          "documentation": "For region me-south-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.me-south-1.amazonaws.com"
            }
          },
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"params": {
"Region": "me-south-1",
"UseFIPS": false,
"UseDualStack": false
}
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{
"documentation": "For region sa-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.sa-east-1.amazonaws.com"
}
},
"params": {
"Region": "sa-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false
}

},
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",

"expect": {
"endpoint": {
"url": "https://license-manager.us-east-2.amazonaws.com"
}

},
"params": {
"Region": "us-east-2",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-east-2 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-east-2.amazonaws.com"
}
},
"params": {
"Region": "us-east-2",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region
us-west-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-west-1.amazonaws.com"
}
},
"params": {
"Region": "us-west-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-west-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-west-1.amazonaws.com"
}
},
"params": {

"Region": "us-west-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-west-2 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-west-2.amazonaws.com"
}
},
"params": {
"Region": "us-west-2",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-west-2 with FIPS enabled and DualStack disabled",

"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-west-2.amazonaws.com"
}
},
"params": {
"Region": "us-west-2",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,

"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",

"expect": {
"endpoint": {
"url": "https://license-manager.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url":
"https://license-manager.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-northwest-1",
"UseFIPS": false,
"UseDualStack": false

}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",

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            "UseFIPS": true,
            "UseDualStack": true
        }
    },
    {
        "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-fips.cn-north-1.amazonaws.com.cn"
             }
        },
        "params": {
            "Region": "cn-north-1",
            "UseFIPS": true,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.cn-north-1.api.amazonwebservices.com.cn"
            }
        },
        "params": {
            "Region": "cn-north-1",
            "UseFIPS": false,
            "UseDualStack": true
        }
    },

{
        "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.us-gov-east-1.amazonaws.com"
            }
        },
        "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
        "expect": {
            "endpoint": {
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"url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-gov-west-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-west-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation":
"For region us-gov-west-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-gov-west-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-west-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-gov-east-1.api.aws"
}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": true

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            }
        },
        {
            "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.us-gov-east-1.api.aws"
                }
            },
            "params": {
                "Region": "us-gov-east-1",
                "UseFIPS": false,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack
disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
                }
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": true,
                 "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
                }
            },
            "params": {
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"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled
but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},

{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
}

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                    },

          "params": {
                        "Region": "us-isob-east-1",
                        "UseFIPS": true,
                        "UseDualStack": false
                    }
                },
                {
                    "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
                    "expect": {
                        "error": "DualStack is enabled but this partition does not support DualStack"
                    },
                    "params": {
                        "Region": "us-isob-east-1",
                        "UseFIPS": false,
                        "UseDualStack": true
                    }
                },
                {
                    "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",

    "expect": {
                        "endpoint": {
                            "url": "https://example.com"
                        }
                    },
                    "params": {
                        "Region": "us-east-1",
                        "UseFIPS": false,
                        "UseDualStack": false,
                        "Endpoint": "https://example.com"
                    }
                },
                {
                    "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",
                    "expect": {
                        "endpoint": {
                            "url": "https://example.com"
                        }
                    },
                    "params": {
                        "UseFIPS": false,

        "UseDualStack": false,
                        "Endpoint": "https://example.com"
                    }
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                },
                {
                    "documentation": "For custom endpoint with fips enabled and dualstack disabled",
                    "expect": {
                        "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
                    },
                    "params": {
                        "Region": "us-east-1",
                        "UseFIPS": true,
                        "UseDualStack": false,
                        "Endpoint": "https://example.com"
                    }
                },
                {
                    "documentation": "For custom endpoint with fips disabled and dualstack enabled",
                    "expect": {
                        "error":
"Invalid Configuration: Dualstack and custom endpoint are not supported"
                    },
                    "params": {
                        "Region": "us-east-1",
                        "UseFIPS": false,
                        "UseDualStack": true,
                        "Endpoint": "https://example.com"
                    }
                },
                {
                    "documentation": "Missing region",
                    "expect": {
                        "error": "Invalid Configuration: Missing Region"
                    }
                }
            ],
            "version": "1.0"
        }
    }
},
"com.amazonaws.licensemanager#AcceptGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#AcceptGrantRequest"

},
    "output": {
        "target": "com.amazonaws.licensemanager#AcceptGrantResponse"
    },
    "errors": [
        {
```

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            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"

}
      ],
      "traits": {
        "smithy.api#documentation": "<p>Accepts the specified grant.</p>"
      }
    },
    "com.amazonaws.licensemanager#AcceptGrantRequest": {
      "type": "structure",
      "members": {
        "GrantArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#AcceptGrantResponse": {
      "type": "structure",
      "members": {
        "GrantArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Grant
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ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#AccessDeniedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {

"code": "ServiceAccessDenied",
"httpResponseCode": 401
},
"smithy.api#documentation": " Access to resource denied. ",
"smithy.api#error": "client",
"smithy.api#httpError": 401
}
},
"com.amazonaws.licensemanager#ActivationOverrideBehavior": {
"type": "enum",
"members": {
"DISTRIBUTED_GRANTS_ONLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DISTRIBUTED_GRANTS_ONLY"
}
},
"ALL_GRANTS_PERMITTED_BY_ISSUER": {

"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ALL_GRANTS_PERMITTED_BY_ISSUER"
}
}
}
},
"com.amazonaws.licensemanager#AllowedOperation": {

"type": "enum",
"members": {
"CREATE_GRANT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CreateGrant"
}
},
"CHECKOUT_LICENSE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CheckoutLicense"
}
},
"CHECKOUT_BORROW_LICENSE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CheckoutBorrowLicense"
}
},
"CHECK_IN_LICENSE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CheckInLicense"
}
},
"EXTEND_CONSUMPTION_LICENSE":
{
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ExtendConsumptionLicense"
}
},
"LIST_PURCHASED_LICENSES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ListPurchasedLicenses"
}
},

"CREATE_TOKEN": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CreateToken"
}
}
}
},
"com.amazonaws.licensemanager#AllowedOperationList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#AllowedOperation"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max":
7
}
}
},
"com.amazonaws.licensemanager#Arn": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 2048
},
"smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
}
},
"com.amazonaws.licensemanager#ArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
}
},
"com.amazonaws.licensemanager#AuthorizationException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError":

{
"code": "AuthorizationFailure",
"httpResponseCode": 403
},
"smithy.api#documentation": " The Amazon Web Services user account does not have permission to perform the action. Check the IAM\n policy associated with this account. ",
"smithy.api#error": "client",
"smithy.api#httpError": 403
}
},
"com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
"type": "structure",
"members": {
"LastRunTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time that automated discovery last ran. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes automated discovery. "
}
},

"com.amazonaws.licensemanager#Boolean": {
"type": "boolean",
"traits": {
"smithy.api#default": false
}
},
"com.amazonaws.licensemanager#BorrowConfiguration": {
"type": "structure",
"members": {
"AllowEarlyCheckIn": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether early check-ins are allowed. ",
"smithy.api#required": {}
}
},
"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the borrow configuration, in minutes. ",
"smithy.api#required": {}
}
}

```
},
        "traits": {
            "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#BoxBoolean": {
        "type": "boolean"
    },
    "com.amazonaws.licensemanager#BoxInteger": {
        "type": "integer"
    },
    "com.amazonaws.licensemanager#BoxLong": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#CheckInLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"

     },
            {
                "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
```

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks in the specified license. Check in a license when it is no longer
in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseRequest":
{
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",
                    "smithy.api#required": {}
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License beneficiary.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicense":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {
                "target":
"com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
        "type": "structure",
        "members":
{
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The license must
use the borrow consumption configuration.</p>",
                    "smithy.api#required": {}
                }
```

```
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements. Partial checkouts are not supported.</p>",
                    "smithy.api#required": {}
                }
            },
            "DigitalSignatureMethod": {
                "target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
                "traits": {
                    "smithy.api#documentation": "<p>Digital signature method. The possible
 value is JSON Web Signature (JWS) algorithm PS384.\n        For more information, see <a
href=\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital Signature with RSASSA-PSS</a>.</p>",
                    "smithy.api#required": {}
                }
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Node ID.</p>"
                }
            },
            "CheckoutMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about constraints.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation":
 "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
```

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},
"EntitlementsAllowed":
{
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " Allowed license entitlements. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"SignedToken": {
"target": "com.amazonaws.licensemanager#SignedToken",
"traits": {
"smithy.api#documentation": " Signed token. "
}
},
"IssuedAt": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout
is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout expires. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about constraints. "
}
}
},

"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target":
"com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks out the specified license. \n <note>\n If the
account that created the license is the same that is performing the check out, you must\n specify the account

as the beneficiary. \n </note>"
  }
},
"com.amazonaws.licensemanager#CheckoutLicenseRequest": {
  "type": "structure",
  "members": {
    "ProductSKU": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": " Product
SKU. ",
        "smithy.api#required": {}
      }
    },
    "CheckoutType": {
      "target": "com.amazonaws.licensemanager#CheckoutType",
      "traits": {
        "smithy.api#documentation": " Checkout type. ",
        "smithy.api#required": {}
      }
    },
    "KeyFingerprint": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": " Key fingerprint identifying the license. ",
        "smithy.api#required": {}
      }
    },
    "Entitlements": {
      "target": "com.amazonaws.licensemanager#EntitlementDataList",
      "traits": {
        "smithy.api#documentation": " License entitlements. ",

"smithy.api#required": {}
      }
    },
    "ClientToken": {
      "target": "com.amazonaws.licensemanager#ClientToken",
      "traits": {
        "smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request. ",
        "smithy.api#required": {}
      }
    },
    "Beneficiary": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": " License beneficiary. "

```
            }
        },
        "NodeId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
            }
        }
    },
    "traits": {

   "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
    "type": "structure",
    "members": {
        "CheckoutType": {
            "target": "com.amazonaws.licensemanager#CheckoutType",
            "traits": {
                "smithy.api#documentation": "<p>Checkout type.</p>"
            }
        },
        "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License consumption token.</p>"
            }
        },
        "EntitlementsAllowed": {
            "target": "com.amazonaws.licensemanager#EntitlementDataList",
            "traits": {
                "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
            }
        },
         "SignedToken": {
            "target": "com.amazonaws.licensemanager#SignedToken",
            "traits": {
                "smithy.api#documentation": "<p>Signed token.</p>"
            }
        },
        "NodeId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
            }
        },
        "IssuedAt": {
```

"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and
time at which the license checkout expires. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the checkout license. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutType": {
"type": "enum",
"members": {
"PROVISIONAL": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PROVISIONAL"
}
},
"PERPETUAL": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PERPETUAL"
}
}
}
},
"com.amazonaws.licensemanager#ClientRequestToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 36
}
}

```
    },
    "com.amazonaws.licensemanager#ClientToken": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 2048
            },
            "smithy.api#pattern": "^\\S+$"
        }
    },
    "com.amazonaws.licensemanager#ConflictException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "ConflictException",
                "httpResponseCode":
 409
            },
            "smithy.api#documentation": "<p>There was a conflict processing the request. Try your request
again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 409
        }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummary": {
        "type": "structure",
        "members": {
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
                }
            },
            "ConsumedLicenses": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
                }
            }
        },
```

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"traits": {
            "smithy.api#documentation": "<p>Details about license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
        }
    },
    "com.amazonaws.licensemanager#ConsumptionConfiguration": {
        "type": "structure",
        "members": {
            "RenewType": {
                "target": "com.amazonaws.licensemanager#RenewType",
                "traits": {
                    "smithy.api#documentation": "<p>Renewal frequency.</p>"
                }
            },
            "ProvisionalConfiguration": {
                "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
                 }
            },
            "BorrowConfiguration": {
                "target": "com.amazonaws.licensemanager#BorrowConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
```

```
            {
                "target":
 "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a grant for the specified license. A grant shares the use of
license\n        entitlements with a specific Amazon Web Services account, an organization, or an\n
organizational unit (OU). For more
 information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-
licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantRequest": {
        "type": "structure",
        "members": {
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>",
                    "smithy.api#required": {}

    }
            },
            "LicenseArn": {
```

"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Principals": {
"target": "com.amazonaws.licensemanager#PrincipalArnList",
"traits": {
"smithy.api#documentation": " The grant principals. You can specify one of the following as an Amazon Resource Name\n (ARN): \n \n \n An Amazon Web Services account, which includes only the account specified. \n \n \n \n \n An organizational unit (OU), which includes all accounts in the OU. \n \n \n \n \n An organization, which will include all accounts across your organization. \n \n ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations for the grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},

"com.amazonaws.licensemanager#CreateGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},

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            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersion":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
             },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
```

```
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified grant. For more information,
see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-
licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersionRequest": {
        "type": "structure",
        "members": {
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",

  "smithy.api#required": {}
                }
            },
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>"
                }
            },
            "AllowedOperations": {
                "target": "com.amazonaws.licensemanager#AllowedOperationList",
                "traits": {
                    "smithy.api#documentation": "<p>Allowed operations for the grant.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                 "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "StatusReason": {
                "target": "com.amazonaws.licensemanager#StatusReasonMessage",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status reason.</p>"
```

```
            }
        },
        "SourceVersion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Current version of the grant.</p>"
            }
        },
        "Options": {
            "target": "com.amazonaws.licensemanager#Options",
            "traits": {
                "smithy.api#documentation": "<p>The options specified for the grant.</p>"
            }
        }
    },
     "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CreateGrantVersionResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>New version of the grant.</p>"
            }
        }
    },
    "traits":
{
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicense": {
    "type": "operation",
```

```
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a license.</p>"
    }
},
"com.amazonaws.licensemanager#CreateLicenseConfiguration": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license configuration.</p>\n        <p>A license configuration is an abstraction of a customer license agreement that can be\n        consumed and enforced by License Manager. Components include specifications for the license\n        type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n        Dedicated Instance, Dedicated Host, or all of these), license affinity  to host (how long a \n        license must be associated with a host), and the number of licenses purchased and used.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Description of the license configuration.</p>"
                }
            },
            "LicenseCountingType": {
                "target": "com.amazonaws.licensemanager#LicenseCountingType",
                "traits": {
                    "smithy.api#documentation": "<p>Dimension used to track the license inventory.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
```

"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether hard or soft license enforcement is used. Exceeding a hard limit\n blocks the launch of new instances. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules \n vary by dimension, as follows. \n \n \n \n <code>Cores</code> dimension: <code>allowedTenancy</code> |\n <code>licenseAffinityToHost</code> |\n <code>maximumCores</code> | <code>minimumCores</code>\n \n \n \n \n <code>Instances</code> dimension: <code>allowedTenancy</code> | \n <code>maximumCores</code> | <code>minimumCores</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code> |\n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n
\n <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n <code>licenseAffinityToHost</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code>\n \n \n \n \n <code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n <code>honorVcpuOptimization</code> | \n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n The unit for <code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n <code>True</code> and <code>False</code>. "
}
},

"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the license configuration. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "

```
            }
          },
          "ProductInformationList": {
            "target": "com.amazonaws.licensemanager#ProductInformationList",
            "traits": {
              "smithy.api#documentation": "<p>Product information.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse":
{
        "type": "structure",
        "members": {
          "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
           },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new license conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {

                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource you are converting
the license type for.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting
from. \n\n        For the structure of the source license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            },
            "DestinationLicenseContext":
 {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting to.
For the structure of the destination license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
```

```
    }
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
    "type": "structure",
    "members": {
        "LicenseConversionTaskId": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",

   "traits": {
                "smithy.api#documentation": "<p>The ID of the created license type conversion task.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
         },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
```

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a report generator. "
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"ReportGeneratorName":
{
"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports to generate. The following report types an be generated: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}

}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " Defines the type of license configuration the report generator tracks. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",

"traits": {
"smithy.api#documentation": " Unique,
case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the new report
generator. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseRequest": {
"type": "structure",
"members": {
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. ",
"smithy.api#required": {}
}

```
            },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product
name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product SKU.</p>",
                    "smithy.api#required": {}
                }
            },
            "Issuer": {
                "target": "com.amazonaws.licensemanager#Issuer",
                "traits": {
                    "smithy.api#documentation": "<p>License issuer.</p>",
                    "smithy.api#required": {}
                }
            },
            "HomeRegion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Home Region for the license.</p>",
                    "smithy.api#required": {}

    }
            },
            "Validity": {
                "target": "com.amazonaws.licensemanager#DatetimeRange",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>",
                    "smithy.api#required": {}
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " License beneficiary. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},

```
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseVersion": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
    }
```

```
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target":
"com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "LicenseName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License name.</p>",
            "smithy.api#required": {}
          }
        },
        "ProductName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product name.</p>",
            "smithy.api#required": {}
          }
        },
        "Issuer": {
          "target": "com.amazonaws.licensemanager#Issuer",
          "traits":
{
            "smithy.api#documentation": "<p>License issuer.</p>",
            "smithy.api#required": {}
          }
        },
        "HomeRegion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Home Region of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "Validity": {
          "target": "com.amazonaws.licensemanager#DatetimeRange",
          "traits": {
            "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
            "smithy.api#required": {}
          }
```

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            },
            "LicenseMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license.</p>"
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>",
                    "smithy.api#required": {}
                }
            },
            "ConsumptionConfiguration": {
                "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional
configuration for workloads\n        running with continuous connectivity. Choose a borrow configuration for
workloads with offline\n        usage.</p>",
                    "smithy.api#required": {}
                }
            },

   "Status": {
                "target": "com.amazonaws.licensemanager#LicenseStatus",
                "traits": {
                    "smithy.api#documentation": "<p>License status.</p>",
                    "smithy.api#required": {}
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the license.</p>"
                }
            }
        },
        "traits": {
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"smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": " License ARN. "
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": " New version of the license. "
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseStatus",
                "traits": {
                    "smithy.api#documentation": " License status. "
                }
            }
        },
        "traits": {
            "smithy.api#output":
{}
        }
    },
    "com.amazonaws.licensemanager#CreateToken": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateTokenRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateTokenResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },

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            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },

        {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a long-lived token.</p>\n        <p>A refresh token is a JWT token used to get an access token. With an access token,\n          you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n          call License Manager to manage the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateTokenRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits":
 {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n          JWT token.</p>",
                    "smithy.api#required": {}
                }
            },
            "RoleArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n        License Manager does not check whether the roles are in use.</p>"
                }
            },
            "ExpirationInDays": {
                "target": "com.amazonaws.licensemanager#Integer",
                "traits": {
                    "smithy.api#documentation": "<p>Token expiration, in days, counted from token creation. The default is 365 days.</p>"
                }
```

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            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Data specified by the caller to be included in the JWT token. The
data is mapped\n          to the amr claim of the JWT token.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Idempotency token, valid for 10 minutes.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateTokenResponse": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",

                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
            "TokenType": {
                "target": "com.amazonaws.licensemanager#TokenType",
                "traits": {
                    "smithy.api#documentation": "<p>Token type.</p>"
                }
            },
            "Token": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DateTime": {
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    "type": "timestamp"
  },
  "com.amazonaws.licensemanager#DatetimeRange": {
    "type": "structure",
    "members": {
      "Begin": {
          "target": "com.amazonaws.licensemanager#ISO8601DateTime",
        "traits": {
          "smithy.api#documentation": "<p>Start of the time range.</p>",
          "smithy.api#required": {}
        }
      },
      "End": {
        "target": "com.amazonaws.licensemanager#ISO8601DateTime",
        "traits": {
          "smithy.api#documentation": "<p>End of the time range.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC format.</p>"
    }
  },
  "com.amazonaws.licensemanager#DeleteGrant": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
     },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
      },
      {
```

"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes
the specified grant. "
}
},
"com.amazonaws.licensemanager#DeleteGrantRequest": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " The Status reason for the delete request. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the
grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}

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            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
"<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"

},
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
```

"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license configuration. \n You cannot delete a license configuration that is in use. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
"type": "structure",
"members":
{
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

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            "smithy.api#documentation": "<p>ID of the license configuration.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
      "type": "structure",
      "members": {},
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
       },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target": "com.amazonaws.licensemanager#ValidationException"
```

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified report generator.</p>\n        <p>This action
deletes the report generator, which stops it from generating future reports.\n        The action cannot be reversed. It
has no effect on the previous reports from this generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to be
deleted.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {

 "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the license.</p>",
                    "smithy.api#required":
```

{}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseResponse": {
"type": "structure",
"members": {
"Status": {
"target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"DeletionDate": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date when the license is deleted. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#DeleteToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"

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            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },

        {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteTokenRequest": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteTokenResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}

      }
    },
    "com.amazonaws.licensemanager#DigitalSignatureMethod": {
        "type": "enum",
        "members": {
            "JWT_PS384": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "JWT_PS384"
                }
```

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            }
        }
    },
    "com.amazonaws.licensemanager#Entitlement": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement name.</p>",
                    "smithy.api#required": {}
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement resource. Use only
if the unit is None.</p>"
                }
            },
            "MaxCount": {
                "target": "com.amazonaws.licensemanager#Long",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
                }
            },
            "Overage": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether overages are allowed.</p>"
                }
            },
            "Unit": {
                "target": "com.amazonaws.licensemanager#EntitlementUnit",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement unit.</p>",
                    "smithy.api#required": {}
                }
            },
            "AllowCheckIn": {
                "target":
"com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether check-ins are allowed.</p>"
                }
            }
        },
        "traits": {
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"smithy.api#documentation": " Describes a resource entitled for use with a license. "
}
},
"com.amazonaws.licensemanager#EntitlementData": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement data name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement
data value. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementDataUnit",
"traits": {
"smithy.api#documentation": " Entitlement data unit. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Data associated with an entitlement resource. "
}
},
"com.amazonaws.licensemanager#EntitlementDataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#EntitlementData"
}
},
"com.amazonaws.licensemanager#EntitlementDataUnit": {
"type": "enum",
"members": {
"COUNT": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Count"
}
},

"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"SECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Seconds"
}
},
"MICROSECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Microseconds"
}
},
"MILLISECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Milliseconds"
}
},
"BYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes"
}
},
"KILOBYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes"
}
},
"MEGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes"
}
},
"GIGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes"
}
},

"TERABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabytes"
}
},
"BITS":
{
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits"
}
},
"KILOBITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobits"
}
},
"MEGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits"
}
},
"GIGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits"
}
},
"TERABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits"

}
},
"PERCENT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Percent"
}
},
"BYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes/Second"

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            }
        },
        "KILOBYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobytes/Second"
            }
        },
        "MEGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabytes/Second"
            }
        },
        "GIGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "Gigabytes/Second"
            }
        },
        "TERABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabytes/Second"
            }
        },
        "BITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bits/Second"
            }
        },
        "KILOBITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobits/Second"
            }
        },
        "MEGABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue":
"Megabits/Second"
            }
        },
        "GIGABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
```

"smithy.api#enumValue": "Gigabits/Second"
}
},
"TERABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits/Second"
}
},
"COUNT_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Count/Second"
}
}
}
},
"com.amazonaws.licensemanager#EntitlementList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Entitlement"
}
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException":
{
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The entitlement is not allowed. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#EntitlementUnit": {
"type": "enum",
"members": {
"COUNT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Count"
}
},
"NONE": {
"target": "smithy.api#Unit",

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            "traits": {
                "smithy.api#enumValue": "None"
            }
        },
        "SECONDS":
{
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Seconds"
            }
        },
        "MICROSECONDS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Microseconds"
            }
        },
        "MILLISECONDS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Milliseconds"
            }
        },
        "BYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bytes"
            }
        },
        "KILOBYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobytes"
             }
        },
        "MEGABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabytes"
            }
        },
        "GIGABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Gigabytes"
            }
        },
        "TERABYTES": {
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"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabytes"
}
},
"BITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits"
}
},
"KILOBITS": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Kilobits"
}
},
"MEGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits"
}
},
"GIGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits"
}
},
"TERABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits"
}
},
"PERCENT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Percent"
}
},
"BYTES_PER_SECOND": {
"target":
"smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes/Second"
}

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            },
            "KILOBYTES_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Kilobytes/Second"
                }
            },
            "MEGABYTES_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Megabytes/Second"
                }
            },
            "GIGABYTES_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Gigabytes/Second"
                }
            },
            "TERABYTES_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {

"smithy.api#enumValue": "Terabytes/Second"
                }
            },
            "BITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Bits/Second"
                }
            },
            "KILOBITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Kilobits/Second"
                }
            },
            "MEGABITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Megabits/Second"
                }
            },
            "GIGABITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Gigabits/Second"
```

```
            }
        },

    "TERABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabits/Second"
            }
        },
        "COUNT_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Count/Second"
            }
        }
    }
},
"com.amazonaws.licensemanager#EntitlementUsage": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage name.</p>",
                "smithy.api#required": {}
            }
        },
        "ConsumedValue": {
            "target": "com.amazonaws.licensemanager#String",

        "traits": {
                "smithy.api#documentation": "<p>Resource usage consumed.</p>",
                "smithy.api#required": {}
            }
        },
        "MaxCount": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
            }
        },
        "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
                "smithy.api#required": {}
            }
        }
```

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        },
        "traits": {
            "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementUsageList":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#EntitlementUsage"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumption": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
```

"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. ",
"smithy.api#required": {}

}
},
"DryRun": {
"target": "com.amazonaws.licensemanager#Boolean",
"traits": {
"smithy.api#default": false,
"smithy.api#documentation": " Checks whether you have the required permissions for the action, without actually making the request. Provides an error response if you do not have the required permissions. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},

"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license consumption expires. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#FailedDependencyException": {
"type": "structure",
"members": {
"Message": {

"target": "com.amazonaws.licensemanager#Message"
},
"ErrorCode": {
"target": "com.amazonaws.licensemanager#String"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "FailedDependency",
"httpResponseCode": 424
},
"smithy.api#documentation":
" A dependency required to run the API is missing. ",
"smithy.api#error": "client",
"smithy.api#httpError": 424
}
},
"com.amazonaws.licensemanager#Filter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#FilterName",
"traits": {
"smithy.api#documentation": " Name of the filter. Filter names are case-sensitive. "
}
},
"Values": {
"target": "com.amazonaws.licensemanager#FilterValues",
"traits": {
"smithy.api#documentation": " The value of the filter, which is case-sensitive. You can only
specify one value for the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter
name and value pair that is used to return more specific results from a\n describe operation. Filters can be used
to match a set of resources by specific criteria,\n such as tags, attributes, or IDs. "
}
},
"com.amazonaws.licensemanager#FilterLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {

```
        "aws.protocols#awsQueryError": {
            "code": "FilterLimitExceeded",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The request uses too many filters or too many filter values.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#FilterList": {
    "type": "list",
     "member": {
        "target": "com.amazonaws.licensemanager#Filter"
    }
},
"com.amazonaws.licensemanager#FilterName": {
    "type": "string"
},
"com.amazonaws.licensemanager#FilterValue": {
    "type": "string"
},
"com.amazonaws.licensemanager#FilterValues": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#FilterValue",
        "traits": {
            "smithy.api#xmlName": "item"
        }
    }
},
"com.amazonaws.licensemanager#Filters": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Filter",
        "traits": {
            "smithy.api#xmlName": "item"
        }
    }
},
"com.amazonaws.licensemanager#GetAccessToken": {
    "type": "operation",
    "input": {
         "target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
    },
    "errors": [
```

```
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets a temporary access token to use with
AssumeRoleWithWebIdentity. Access
 tokens\n          are valid for one hour.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenRequest": {
        "type": "structure",
        "members": {
            "Token": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>",
                    "smithy.api#required": {}
                }
            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Token properties to validate against those present in the JWT
token.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenResponse":
 {
        "type": "structure",
        "members": {
```

```
        "AccessToken": {
            "target": "com.amazonaws.licensemanager#TokenString",
            "traits": {
                "smithy.api#documentation": "<p>Temporary access token.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#GetGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"

    },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
```

```
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
        "Grant": {
            "target": "com.amazonaws.licensemanager#Grant",
            "traits": {
                "smithy.api#documentation": "<p>Grant details.</p>"
            }
        }
    },
    "traits": {

"smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#GetLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
```

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"

},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license configuration. "

```
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits":
 {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurationId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Unique ID for the license configuration.</p>"
                }
            },
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
                }
            },
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the license configuration.</p>"
                 }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Description of the license configuration.</p>"
                }
            },
            "LicenseCountingType": {
                "target": "com.amazonaws.licensemanager#LicenseCountingType",
```

```
            "traits": {
                "smithy.api#documentation": "<p>Dimension for which the licenses are counted.</p>"
            }
        },
        "LicenseRules": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>License rules.</p>"
            }
        },
        "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",

           "traits": {
                "smithy.api#documentation": "<p>Number of available licenses.</p>"
            }
        },
        "LicenseCountHardLimit": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Sets the number of available licenses as a hard limit.</p>"
            }
        },
        "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses assigned to resources.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License configuration status.</p>"
            }

    },
        "OwnerAccountId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Account ID of the owner of the license configuration.</p>"
            }
        },
        "ConsumedLicenseSummaryList": {
            "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
            "traits": {
                "smithy.api#documentation": "<p>Summaries of the licenses consumed by resources.</p>"
            }
        },
```

"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the managed resources. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags for the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When
true, disassociates a resource when software is uninstalled. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTask": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets information about the specified license type conversion task. "
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task to retrieve information on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the resources the license conversion task is associated with. "

```
            }
        },
        "SourceLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
                "smithy.api#documentation": "<p>Information
about the license type converted from.</p>"
            }
        },
        "DestinationLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
                "smithy.api#documentation": "<p>Information about the license type converted to.</p>"
            }
        },
        "StatusMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
            "traits": {
                "smithy.api#documentation": "<p>Status of the license type conversion task.</p>"
            }
        },

  "StartTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Time at which the license type conversion task was started .</p>"
            }
        },
        "LicenseConversionTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Amount of time to complete the license type conversion.</p>"
            }
        },
        "EndTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Time at which the license type conversion task was
completed.</p>"
            }
        }
    },
```

```
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

         },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets information about the specified report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. ",
"smithy.api#required":
{}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"ReportGenerator": {
"target": "com.amazonaws.licensemanager#ReportGenerator",
"traits": {
"smithy.api#documentation": " A report generator that creates periodic reports about your license configurations. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
},
"traits": {
"smithy.api#input": {}
}

```
    },
    "com.amazonaws.licensemanager#GetLicenseResponse": {
        "type": "structure",
        "members": {
            "License": {
                "target": "com.amazonaws.licensemanager#License",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },

"com.amazonaws.licensemanager#GetLicenseUsage": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {

"target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the usage of the specified license.</p>"
        }
```

```
    },
    "com.amazonaws.licensemanager#GetLicenseUsageRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#GetLicenseUsageResponse": {
      "type": "structure",
      "members": {
        "LicenseUsage": {
          "target":
"com.amazonaws.licensemanager#LicenseUsage",
          "traits": {
            "smithy.api#documentation": "<p>License usage details.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#GetServiceSettings": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets the License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsRequest": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Regional S3 bucket path for storing reports, license trail event data,
discovery data,\n        and so on.</p>"

  }
            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>SNS topic configured to receive notifications from License
Manager.</p>"
                }
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether Organizations is integrated with License
Manager for\n        cross-account discovery.</p>"
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether cross-account discovery is enabled.</p>"
                }
```

```
        },
            "LicenseManagerResourceShareArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource share. The License
Manager management account \n        provides member accounts with access to this share.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#Grant": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {

 "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ParentArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Parent ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>License ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "GranteePrincipalArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
```

"smithy.api#documentation": " The grantee principal ARN. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"GrantStatus": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. ",
"smithy.api#required": {}
}
},
"GrantedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Granted operations. ",
"smithy.api#required": {}
}
},
"Options": {
"target": "com.amazonaws.licensemanager#Options",
"traits": {
"smithy.api#documentation": " The options specified for the grant. "
}
}
},
"traits": {
"smithy.api#documentation":

" Describes a grant. "
        }
    },
    "com.amazonaws.licensemanager#GrantList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Grant"
        }
    },
    "com.amazonaws.licensemanager#GrantStatus": {
        "type": "enum",
        "members": {
            "PENDING_WORKFLOW": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_WORKFLOW"
                }
            },
            "PENDING_ACCEPT": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_ACCEPT"
                }
            },
            "REJECTED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "REJECTED"

            }
            },
            "ACTIVE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "ACTIVE"
                }
            },
            "FAILED_WORKFLOW": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "FAILED_WORKFLOW"
                }
            },
            "DELETED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DELETED"
                }

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            },
            "PENDING_DELETE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_DELETE"
                }
            },
            "DISABLED": {
                "target": "smithy.api#Unit",
                "traits":
{
                    "smithy.api#enumValue": "DISABLED"
                }
            },
            "WORKFLOW_COMPLETED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "WORKFLOW_COMPLETED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GrantedLicense": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "LicenseName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License name.</p>"
                }

  },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product name.</p>"
                }
            },
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product SKU.</p>"
```

```
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
                "smithy.api#documentation": "<p>Granted license issuer.</p>"
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region of the granted license.</p>"

         }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>Granted license status.</p>"
            }
        },
        "Validity": {
            "target": "com.amazonaws.licensemanager#DatetimeRange",
            "traits": {
                "smithy.api#documentation": "<p>Date and time range during which the granted license is valid, in
ISO8601-UTC format.</p>"
            }
        },
        "Beneficiary": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Granted license beneficiary.</p>"
            }
        },
        "Entitlements": {
            "target": "com.amazonaws.licensemanager#EntitlementList",
             "traits": {
                "smithy.api#documentation": "<p>License entitlements.</p>"
            }
        },
        "ConsumptionConfiguration": {
            "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
            }
        },
        "LicenseMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
```

```
            "traits": {
                "smithy.api#documentation": "<p>Granted license metadata.</p>"
            }
        },
        "CreateTime": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Creation time of the granted license.</p>"

  }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Version of the granted license.</p>"
            }
        },
        "ReceivedMetadata": {
            "target": "com.amazonaws.licensemanager#ReceivedMetadata",
            "traits": {
                "smithy.api#documentation": "<p>Granted license received metadata.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes a license that is granted to a grantee.</p>"
    }
},
"com.amazonaws.licensemanager#GrantedLicenseList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#GrantedLicense"
    }
},
"com.amazonaws.licensemanager#ISO8601DateTime":
{
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 50
        },
        "smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-
1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[ 0-3]|[0-1][0-9]):[0-5][0-9])+$"
    }
},
"com.amazonaws.licensemanager#Integer": {
    "type": "integer"
```

```
    },
    "com.amazonaws.licensemanager#InvalidParameterValueException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidParameterValueProvided",
                "httpResponseCode": 400
            },
            "smithy.api#documentation":
 "<p>One or more parameter values are not valid.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#InvalidResourceStateException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidResourceState",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>License Manager cannot allocate a license to a resource because of its
state. </p>\n        <p>For example, you cannot allocate a license to an instance in the process of shutting\n
down.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },

    "com.amazonaws.licensemanager#InventoryFilter": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the filter.</p>",
                    "smithy.api#required": {}
                }
```

```
        },
        "Condition": {
            "target": "com.amazonaws.licensemanager#InventoryFilterCondition",
            "traits": {
                "smithy.api#documentation": "<p>Condition of the filter.</p>",
                "smithy.api#required": {}
            }
        },
        "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Value of the filter.</p>"
            }
        }

    },
    "traits": {
        "smithy.api#documentation": "<p>An inventory filter.</p>"
    }
  },
  "com.amazonaws.licensemanager#InventoryFilterCondition": {
    "type": "enum",
    "members": {
        "EQUALS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EQUALS"
            }
        },
        "NOT_EQUALS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "NOT_EQUALS"
            }
        },
        "BEGINS_WITH": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "BEGINS_WITH"
            }
        },
        "CONTAINS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "CONTAINS"
            }
        }
    }
```

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    },
    "com.amazonaws.licensemanager#InventoryFilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#InventoryFilter"
        }
    },
    "com.amazonaws.licensemanager#Issuer": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Issuer name.</p>",
                    "smithy.api#required": {}
                }
            },
            "SignKey": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage
 of sign and verify, \n        and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about the issuer of a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#IssuerDetails": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Issuer name.</p>"
                }
            },
            "SignKey": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n        and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
                }
            },
            "KeyFingerprint": {
```

```
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Issuer key fingerprint.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details associated with the issuer of a license.</p>"
    }
},
"com.amazonaws.licensemanager#License": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
        },
        "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {

       "smithy.api#documentation": "<p>License name.</p>"
            }
        },
        "ProductName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product name.</p>"
            }
        },
        "ProductSKU": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product SKU.</p>"
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
                "smithy.api#documentation": "<p>License issuer.</p>"
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

"smithy.api#documentation": " Home Region of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"Entitlements": {

"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " License metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " License creation time. "
}
},

```
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Software license that is managed in License Manager.</p>"
    }
},
"com.amazonaws.licensemanager#LicenseConfiguration": {
    "type": "structure",
    "members": {
        "LicenseConfigurationId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Unique ID of the license configuration.</p>"
            }
        },
        "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
            }
        },
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Name of the license configuration.</p>"
            }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Description of the license configuration.</p>"
            }
        },
        "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
            "traits": {
                "smithy.api#documentation": "<p>Dimension to use to track the license inventory.</p>"
             }
        },
        "LicenseRules": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>License rules.</p>"
```

```
            }
        },
        "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
            }
        },
        "LicenseCountHardLimit": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Number of available licenses as a hard limit.</p>"
            }
        },
        "DisassociateWhenNotFound": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
             "traits": {
                "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
            }
        },
        "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses consumed. </p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Status of the license configuration.</p>"
            }
        },
        "OwnerAccountId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Account ID of the license configuration's owner.</p>"

        }
        },
        "ConsumedLicenseSummaryList": {
            "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
            "traits": {
                "smithy.api#documentation": "<p>Summaries for licenses consumed by various resources.</p>"
            }
        },
        "ManagedResourceSummaryList": {
            "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
```

"traits": {
"smithy.api#documentation": " Summaries for managed resources. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {

"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
}
},
"traits": {
"smithy.api#documentation": " A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
"type": "structure",
"members": {
"ResourceArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of server resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource consuming licenses. "
}

```
            },
            "AssociationTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {

    "smithy.api#documentation": "<p>Time when the license configuration was associated with the resource.</p>"
                }
            },
            "AmiAssociationScope": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-
account</code>.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes an association with a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationStatus": {
        "type": "enum",
        "members":
{
            "AVAILABLE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "AVAILABLE"
                }
            },
            "DISABLED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DISABLED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationUsage": {
        "type": "structure",
        "members": {
            "ResourceArn": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits":
{
"smithy.api#documentation": " Type of resource. "
}
},
"ResourceStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the account that owns the resource. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was initially associated with the resource. "
}
},

"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about the usage of a resource associated with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"

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        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurations": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfiguration"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionContext": {

  "type": "structure",
        "members": {
            "UsageOperation": {
                "target": "com.amazonaws.licensemanager#UsageOperation",
                "traits": {
                    "smithy.api#documentation": "<p>The Usage operation value that corresponds to the license type you
are converting your resource from.  For more information about which platforms correspond to which usage
operation values see <a href=\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-info-
fields.html#billing-info\">Sample data: usage operation by platform\n      </a>\n         </p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTask": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {

     "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the license type conversion task.</p>"
                }
            },
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the resource associated
with the license type\n         conversion task.</p>"
                }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license type this conversion task converted
from.</p>"
```

```
            }
        },
        "DestinationLicenseContext": {
            "target":
 "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
                "smithy.api#documentation": "<p>Information about the license type this conversion task converted
to.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
            "traits": {
                "smithy.api#documentation": "<p>The status of the conversion task.</p>"
            }
        },
        "StatusMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
            }
        },
        "StartTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation":
 "<p>The time the conversion task was started at.</p>"
            }
        },
        "LicenseConversionTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>The time the usage operation value of the resource was
changed.</p>"
            }
        },
        "EndTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>The time the conversion task was completed.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
    }
},
"com.amazonaws.licensemanager#LicenseConversionTaskId": {
```

```
        "type": "string",
        "traits": {

       "smithy.api#length": {
            "min": 0,
            "max": 50
          },
          "smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
        }
      },
      "com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
        "type": "enum",
        "members": {
          "IN_PROGRESS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "IN_PROGRESS"
            }
          },
          "SUCCEEDED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "SUCCEEDED"
            }
          },
          "FAILED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "FAILED"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#LicenseConversionTasks":
  {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#LicenseConversionTask"
        }
      },
      "com.amazonaws.licensemanager#LicenseCountingType": {
        "type": "enum",
        "members": {
          "VCPU": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "vCPU"
            }
```

```
        },
        "INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Instance"
            }
        },
        "CORE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Core"
            }
        },
        "SOCKET": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "Socket"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseDeletionStatus": {
    "type": "enum",
    "members": {
        "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#License"
    }
},
"com.amazonaws.licensemanager#LicenseOperationFailure": {

    "type": "structure",
    "members": {
```

"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Resource type. "
}
},
"ErrorMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Error message. "
}
},
"FailureTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {

"smithy.api#documentation": " Failure time. "
}
},
"OperationName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the operation. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource. "
}
},
"OperationRequestedBy": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The requester is \"License Manager Automated Discovery\". "
}
},
"MetadataList": {

"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {

"smithy.api#documentation": " Reserved. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the failure of a license operation. "
}
},
"com.amazonaws.licensemanager#LicenseOperationFailureList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseOperationFailure"
}
},
"com.amazonaws.licensemanager#LicenseSpecification": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",

"smithy.api#required": {}
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Details for associating a license configuration with a resource. "
}
},
"com.amazonaws.licensemanager#LicenseSpecifications": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseSpecification"
}
},
"com.amazonaws.licensemanager#LicenseStatus": {
"type": "enum",
"members": {
"AVAILABLE": {

"target": "smithy.api#Unit",

"traits": {
"smithy.api#enumValue": "AVAILABLE"
}
},
"PENDING_AVAILABLE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_AVAILABLE"
}
},
"DEACTIVATED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DEACTIVATED"
}
},
"SUSPENDED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "SUSPENDED"
}
},
"EXPIRED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "EXPIRED"
}
},

"PENDING_DELETE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_DELETE"
}
},
"DELETED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DELETED"
}
}
}
},
"com.amazonaws.licensemanager#LicenseUsage": {
"type": "structure",
"members": {

"EntitlementUsages": {
"target": "com.amazonaws.licensemanager#EntitlementUsageList",
"traits": {
"smithy.api#documentation": " License entitlement usages. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the entitlement usage associated with a license. "

}
},
"com.amazonaws.licensemanager#LicenseUsageException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "LicenseUsageFailure",
"httpResponseCode": 412
},
"smithy.api#documentation": " You do not have enough licenses available to support a new resource launch. ",
"smithy.api#error": "client",
"smithy.api#httpError": 412
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"

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            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the resource associations for the
 specified license configuration.</p>\n        <p>Resource associations need not consume licenses from a license
configuration. \n        For example, an AMI or a stopped instance might not consume a license (depending on \n
the license rules).</p>"
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results
 to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
        "type": "structure",
```

"members": {
"LicenseConfigurationAssociations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
"traits": {
"smithy.api#documentation": " Information about the associations for the license configuration. "
}
},
"NextToken": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the grants distributed for the specified license. "
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
"type": "structure",
"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranteePrincipalARN</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
"type": "structure",

"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",

"traits": {
"smithy.api#documentation": " Distributed grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license configuration operations that failed. "
}

```
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
      "type": "structure",
      "members": {
        "LicenseConfigurationArn": {
          "target": "com.amazonaws.licensemanager#String",
           "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name of the license configuration.</p>",
            "smithy.api#required": {}
          }
        },
        "MaxResults": {
          "target": "com.amazonaws.licensemanager#BoxInteger",
          "traits": {
            "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse":
{
      "type": "structure",
      "members": {
        "LicenseOperationFailureList": {
          "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
          "traits": {
            "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
```

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    },
    "com.amazonaws.licensemanager#ListLicenseConfigurations": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
        },

    "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configurations
 for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
configurations.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
```

"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next
set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical
operators\n are supported: \n \n \n \n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n
\n <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license
enforcement is used. \n Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>. \n
\n \n \n <code>usagelimitExceeded</code> - A Boolean value that
indicates whether the available licenses have been exceeded. \n Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
"type": "structure",
"members": {
"LicenseConfigurations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurations",
"traits": {
"smithy.api#documentation": " Information about the license configurations. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},

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    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseConversionTasks": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
    "type": "structure",
    "members": {
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {

"smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
```

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            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>\n        Filters to scope the results. Valid filters are
<code>ResourceArns</code> and <code>Status</code>.\n      </p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTasks": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTasks",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configuration tasks for your
 account.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target":
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"com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the report generators for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest":
{
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported:
\n \n \n \n <code>LicenseConfigurationArn</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits":
{
"smithy.api#documentation": " Maximum number of results to return in a single call. "

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            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
        "type": "structure",
        "members": {
          "ReportGenerators": {
            "target": "com.amazonaws.licensemanager#ReportGeneratorList",
            "traits": {
              "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }

        }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
```

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Describes the license configurations for the specified resource. "
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a resource that has an associated license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {

"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
"type": "structure",
"members": {
"LicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " License configurations associated with a resource. "
}
},

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        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists all versions of the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
```

```
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
        "type": "structure",
        "members": {
          "Licenses": {
            "target": "com.amazonaws.licensemanager#LicenseList",
            "traits": {
              "smithy.api#documentation": "<p>License details.</p>"
            }
          },

"NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenses": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicensesRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicensesResponse"
        },
```

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the licenses for your account. "
}
},
"com.amazonaws.licensemanager#ListLicensesRequest": {
"type": "structure",
"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},

"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>Beneficiary</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>Status</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token

for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicensesResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#LicenseList",
"traits": {
"smithy.api#documentation": " License details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists grants that are received. Received grants are grants created while specifying the\n recipient as this Amazon Web Services account, your organization, or an organizational unit\n (OU) to which this member account belongs. "
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganization": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},

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            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target":
 "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the grants received for all accounts in the organization.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the received license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n
    <ul>\n        <li>\n            <p>\n                <code>ParentArn</code>\n            </p>\n        </li>\n
<li>\n            <p>\n                <code>GranteePrincipalArn</code>\n            </p>\n        </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
```

"com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Lists the grants the organization has received. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
"type": "structure",
"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranterAccountId</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},

```
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
    "type": "structure",
    "members": {
        "Grants": {
            "target": "com.amazonaws.licensemanager#GrantList",
             "traits": {
                "smithy.api#documentation": "<p>Received grant details.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
         },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists received licenses.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {

    "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
```

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the licenses received for all accounts in the organization. "
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest": {
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>Beneficiary</code>\n \n \n \n \n <code>ProductSKU</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#GrantedLicenseList",
"traits": {
"smithy.api#documentation": " Lists the licenses the organization has received. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
"type": "structure",
"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},

"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>IssuerName</code>\n \n \n \n \n <code>Beneficiary</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
"type": "structure",

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    "members": {
      "Licenses": {
        "target": "com.amazonaws.licensemanager#GrantedLicenseList",
        "traits": {
          "smithy.api#documentation": "<p>Received license details.</p>"
        }
      },

      "NextToken": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Token for the next set of results.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#ListResourceInventory": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#FailedDependencyException"
      },
      {
        "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
```

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListResourceInventoryRequest": {
        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                 "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#InventoryFilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>account_id</code>
- The ID of the Amazon Web Services account that owns the resource.\n                Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n
            </li>\n            <li>\n                <p>\n                    <code>application_name</code> - The name of the
application. \n                Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n
    </li>\n            <li>\n                <p>\n                    <code>license_included</code> - The type of license included. \n
            Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n                Possible values
are <code>sql-server-enterprise</code> | \n                <code>sql-server-standard</code> | \n                <code>sql-
server-web</code> |  \n                <code>windows-server-datacenter</code>.</p>\n            </li>\n            <li>\n
    <p>\n                    <code>platform</code> - The platform of the resource.\n                Logical operators are
<code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n            </li>\n            <li>\n                <p>\n
        <code>resource_id</code> - The ID of the resource. \n                Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n
      <code>tag:<key></code> - The key/value combination of a tag assigned \n                to the resource. Logical
operators are <code>EQUALS</code> (single account) or\n                <code>EQUALS</code> |
<code>NOT_EQUALS</code> (cross account).</p>\n            </li>\n        </ul>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
```

```
    "com.amazonaws.licensemanager#ListResourceInventoryResponse": {
      "type": "structure",
      "members": {
        "ResourceInventoryList": {
          "target": "com.amazonaws.licensemanager#ResourceInventoryList",
          "traits": {
            "smithy.api#documentation": "<p>Information
about the resources.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#ListTagsForResource": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
         },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Lists the tags for the specified license configuration.</p>"
```

```
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",

    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceResponse": {
        "type": "structure",
        "members": {
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the tags.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListTokens": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTokensRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTokensResponse"
        },
        "errors":
[
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists your tokens.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTokensRequest": {
        "type": "structure",
        "members": {
            "TokenIds": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {

                  "smithy.api#documentation": "<p>Token IDs.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filter is supported:</p>\n
    <ul>\n        <li>\n        <p>\n        <code>LicenseArns</code>\n        </p>\n        </li>\n
</ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation":
 "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
```

```
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListTokensResponse": {
        "type": "structure",
        "members": {
            "Tokens": {
                "target": "com.amazonaws.licensemanager#TokenList",
                "traits": {
                    "smithy.api#documentation": "<p>Received token details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying license\n        consumption details by resource at a selected point in time. Use this action to audit the\n        current license consumption for any license inventory and configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>resourceArn</code> - The ARN of the license configuration resource.\n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n                <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n                <code>resourceAccount</code> - The ID of the account that owns the resource. \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n        </ul>"
                }
            }
```

```
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
        "type": "structure",
        "members": {

"LicenseConfigurationUsageList": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#Location": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#Long": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#ManagedResourceSummary": {
        "type": "structure",
        "members": {
            "ResourceType":
{
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
                }
            },
            "AssociationCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
                }
            }
```

```
    },
    "traits": {
        "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
    }
},
"com.amazonaws.licensemanager#MaxSize100": {

"type": "integer",
    "traits": {
        "smithy.api#range": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#String"
    },
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 3
        }
    }
},
"com.amazonaws.licensemanager#Message": {
    "type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The key name.</p>"
            }
        },

"Value": {
            "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " The value. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes key/value pairs. "
}
},
"com.amazonaws.licensemanager#MetadataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Metadata"
}
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " There are no entitlements found for this license, or the entitlement maximum count is reached. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#Options": {
"type": "structure",
"members": {
"ActivationOverrideBehavior": {
"target": "com.amazonaws.licensemanager#ActivationOverrideBehavior",
"traits": {
"smithy.api#documentation": " An activation option for your grant that determines the behavior of activating a grant.\n Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the\n <code>Status</code> parameter. \n \n \n As a license administrator, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when activating a grant. \n \n \n As a grantor, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee\n account in your organization. \n \n \n As a grantee, if the grantor creating the distributed grant doesnt specify an\n <code>ActivationOverrideBehavior</code>, you can optionally specify one when you\n are activating the grant. \n \n \n <dl>\n <dt>DISTRIBUTED_GRANTS_ONLY</dt>\n <dd>\n Use this value to activate a grant without replacing any member accounts\n active grants for the same product. \n </dd>\n <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt>\n <dd>\n Use this value to activate a

grant and disable other active grants in any\n member accounts
for the same product. This action will also replace their\n previously activated grants with this activated grant. \n </dd>\n </dl>"
}
}
},
"traits": {
"smithy.api#documentation": " The options you can specify when you create a new version of a grant, such as activation\n override behavior. For more information, see Granted licenses in License Manager in the License Manager User Guide. "
}
},
"com.amazonaws.licensemanager#OrganizationConfiguration": {
"type": "structure",
"members": {
"EnableIntegration": {
"target": "com.amazonaws.licensemanager#Boolean",
"traits": {
"smithy.api#default": false,
"smithy.api#documentation": " Enables Organizations integration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Configuration information for Organizations. "
}
},
"com.amazonaws.licensemanager#PrincipalArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 1
}
}
},
"com.amazonaws.licensemanager#ProductInformation": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterList": {
"target": "com.amazonaws.licensemanager#ProductInformationFilterList",
"traits": {
"smithy.api#documentation": " A Product information filter consists of a <code>ProductInformationFilterComparator</code> which is a logical operator, a <code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. \n Accepted values for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. \n The following filters and are supported when the resource type \n is <code>SSM_MANAGED</code>: \n \n \n \n <code>Application Name</code> - The name of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Publisher</code> - The publisher of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Version</code> - The version of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Type</code> - The platform type.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n \n \n \n \n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n \n \n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n Possible values are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n The following filters and logical operators are supported when the resource type\n is <code>RDS</code>: \n \n \n \n <code>Engine Edition</code> - The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>. \n \n \n \n <code>License Pack</code> - The license pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n <code>diagnostic pack sqlt</code> | \n <code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n \n ",
"smithy.api#required": {}
}
}
},

```
    "traits": {
        "smithy.api#documentation": "<p>Describes product information for a license configuration.</p>"
    }
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
    "type": "structure",
    "members": {
        "ProductInformationFilterName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Filter name.</p>",
                "smithy.api#required": {}
            }
        },
        "ProductInformationFilterValue": {
            "target": "com.amazonaws.licensemanager#StringList",

      "traits": {
                "smithy.api#documentation": "<p>Filter value.</p>"
            }
        },
        "ProductInformationFilterComparator": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Logical operator.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes product information filters.</p>"
    }
},
"com.amazonaws.licensemanager#ProductInformationFilterList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformationFilter"
    }
},
"com.amazonaws.licensemanager#ProductInformationList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformation"
     }
},
"com.amazonaws.licensemanager#ProvisionalConfiguration": {
    "type": "structure",
    "members": {
```

"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the provisional configuration, in minutes. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details about a provisional configuration. "
}
},
"com.amazonaws.licensemanager#RateLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "RateLimitExceeded",
"httpResponseCode": 429
},
"smithy.api#documentation": " Too many requests have been submitted. Try again after a brief wait. ",
"smithy.api#error": "client",
"smithy.api#httpError": 429
}
},
"com.amazonaws.licensemanager#ReceivedMetadata": {
"type": "structure",
"members": {
"ReceivedStatus": {
"target": "com.amazonaws.licensemanager#ReceivedStatus",
"traits": {
"smithy.api#documentation": " Received status. "
}
},
"ReceivedStatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Received status reason. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",

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            "traits": {
                "smithy.api#documentation": "<p>Allowed operations.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Metadata associated with received licenses and grants.</p>"
    }
},
"com.amazonaws.licensemanager#ReceivedStatus": {
    "type": "enum",
    "members": {
        "PENDING_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_WORKFLOW"
            }
        },
        "PENDING_ACCEPT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue":
"PENDING_ACCEPT"
            }
        },
        "REJECTED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "REJECTED"
            }
        },
        "ACTIVE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "ACTIVE"
            }
        },
        "FAILED_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "FAILED_WORKFLOW"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
```

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        },
        "DISABLED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DISABLED"
            }
        },
        "WORKFLOW_COMPLETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "WORKFLOW_COMPLETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#RedirectException": {
    "type": "structure",
    "members": {
        "Location": {
            "target": "com.amazonaws.licensemanager#Location",
            "traits": {
                "smithy.api#httpHeader": "Location"
            }
        },
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 308
    }
},
"com.amazonaws.licensemanager#RejectGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#RejectGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#RejectGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target":
"com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#RejectGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}

  }
    },
    "com.amazonaws.licensemanager#RejectGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
```

"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#RenewType":
{
"type": "enum",
"members": {
"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"WEEKLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Weekly"
}
},
"MONTHLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Monthly"
}
}
}
},
"com.amazonaws.licensemanager#ReportContext": {
"type": "structure",
"members": {
"licenseConfigurationArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration that this generator reports on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details of the license configuration that this generator reports on. "
}
},
"com.amazonaws.licensemanager#ReportFrequency": {
"type": "structure",
"members": {
"value": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Number of times within the frequency period that a report is generated. \n The only supported value is <code>1</code>. "
}
},
"period": {
"target": "com.amazonaws.licensemanager#ReportFrequencyType",

"traits": {
"smithy.api#documentation": " Time period between each report. The period can be daily, weekly, or monthly. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"com.amazonaws.licensemanager#ReportFrequencyType": {
"type": "enum",
"members": {
"DAY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DAY"
}
},
"WEEK": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "WEEK"
}
},

"MONTH": {
"target": "smithy.api#Unit",
"traits":
{
"smithy.api#enumValue": "MONTH"
}
}
}
},
"com.amazonaws.licensemanager#ReportGenerator": {
"type": "structure",
"members": {
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the report generator. "
}
},
"ReportType": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports that are generated. "
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " License
configuration type for this generator. "
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. "
}
},
"LastRunStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the last report generation attempt. "
}

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            },
            "LastRunFailureReason":
 {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Failure message for the last report generation attempt.</p>"
                }
            },
            "LastReportGenerationTime": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Time the last report was generated at.</p>"
                }
            },
            "ReportCreatorAccount": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Web Services account ID used to create the report
generator.</p>"
                }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",

        "traits": {
                    "smithy.api#documentation": "<p>Description of the report generator.</p>"
                }
            },
            "S3Location": {
                "target": "com.amazonaws.licensemanager#S3Location",
                "traits": {
                    "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
                }
            },
            "CreateTime": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Time the report was created.</p>"
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Tags associated with the report generator.</p>"
                }
```

}
},
"traits": {
"smithy.api#documentation": " Describe the details of a report generator. "
}
},
"com.amazonaws.licensemanager#ReportGeneratorList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ReportGenerator"
}
},
"com.amazonaws.licensemanager#ReportGeneratorName": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 100
}
}
},
"com.amazonaws.licensemanager#ReportType": {
"type": "enum",
"members": {
"LICENSE_CONFIGURATION_SUMMARY_REPORT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "LicenseConfigurationSummaryReport"
}

},
"LICENSE_CONFIGURATION_USAGE_REPORT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "LicenseConfigurationUsageReport"
}
}
}
},
"com.amazonaws.licensemanager#ReportTypeList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ReportType"
}
},
"com.amazonaws.licensemanager#ResourceInventory": {
"type": "structure",
"members": {

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            "ResourceId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits":
{
                    "smithy.api#documentation": "<p>Type of resource.</p>"
                }
            },
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "Platform": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Platform of the resource.</p>"
                }
            },
            "PlatformVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Platform version of the resource in the inventory.</p>"
                }
            },
            "ResourceOwningAccountId":
{
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#ResourceInventoryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ResourceInventory"
        }
```

```
},
"com.amazonaws.licensemanager#ResourceLimitExceededException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "ResourceLimitExceeded",

         "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>Your resource limits have been exceeded.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceNotFoundException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "InvalidResource.NotFound",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The resource cannot be found.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceType": {
    "type": "enum",
     "members": {
        "EC2_INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_INSTANCE"
            }
        },
        "EC2_HOST": {
            "target": "smithy.api#Unit",
            "traits": {
```

"smithy.api#enumValue": "EC2_HOST"
}
},
"EC2_AMI": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "EC2_AMI"
}
},
"RDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "RDS"
}
},
"SYSTEMS_MANAGER_MANAGED_INSTANCE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
}
}
}
},
"com.amazonaws.licensemanager#S3Location": {
"type": "structure",
"members": {
"bucket": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the S3 bucket reports are published to. "
}
},
"keyPrefix": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Prefix of the S3 bucket reports are published to. "
}
}
},
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"com.amazonaws.licensemanager#ServerInternalException": {
"type": "structure",
"members": {
"Message": {

"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InternalError",
"httpResponseCode": 500
},
"smithy.api#documentation": " The server experienced an internal error. Try again. ",
"smithy.api#error": "server",
"smithy.api#httpError": 500
}
},
"com.amazonaws.licensemanager#SignedToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 4096
}
}
},
"com.amazonaws.licensemanager#StatusReasonMessage": {
"type": "string",
"traits":
{
"smithy.api#length": {
"min": 0,
"max": 400
},
"smithy.api#pattern": "^[\\s\\S]+$"
}
},
"com.amazonaws.licensemanager#String": {
"type": "string"
},
"com.amazonaws.licensemanager#StringList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#String"
}
},
"com.amazonaws.licensemanager#Tag": {
"type": "structure",
"members": {
"Key": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Tag key. "

```
            }
          },
          "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation":
"<p>Tag value.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
      },
      "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#String"
        }
      },
      "com.amazonaws.licensemanager#TagList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#Tag"
        }
      },
      "com.amazonaws.licensemanager#TagResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#TagResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#TagResourceResponse"
        },
        "errors": [
          {
            "target":
"com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
```

```
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits":
 {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>One or more tags.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#TagResourceResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#TokenData": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
```

"TokenType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Type of token generated. The supported value is <code>REFRESH_TOKEN</code>. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"ExpirationTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Token expiration time, in ISO8601-UTC format. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller. "
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the roles included in the token. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token status. The possible values are <code>AVAILABLE</code> and <code>DELETED</code>. "
}
}
},
"traits": {

"smithy.api#documentation": " Describes a token. "
}
},
"com.amazonaws.licensemanager#TokenList": {
"type": "list",

```
        "member": {
            "target": "com.amazonaws.licensemanager#TokenData"
        }
    },
    "com.amazonaws.licensemanager#TokenString": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 4096
            },
            "smithy.api#pattern": "^\\S+$"
        }
    },
    "com.amazonaws.licensemanager#TokenType": {
        "type": "enum",
        "members": {
            "REFRESH_TOKEN": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "REFRESH_TOKEN"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException":
{
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The digital signature method is unsupported. Try your request
again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#UntagResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UntagResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UntagResourceResponse"
        },
```

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Removes the specified tags from the specified license configuration. "
}
},
"com.amazonaws.licensemanager#UntagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"TagKeys": {
"target": "com.amazonaws.licensemanager#TagKeyList",
"traits": {
"smithy.api#documentation": " Keys identifying the tags to remove. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UntagResourceResponse": {
"type": "structure",
"members": {},

"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Modifies the attributes of an existing license configuration. "
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},

"LicenseConfigurationStatus": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
"traits": {
"smithy.api#documentation": " New status of the license configuration. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {

"smithy.api#documentation": " New license rule. The only rule that you can add after you create a license\n configuration is licenseAffinityToHost. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " New number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " New hard limit of the number of available licenses. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New description of the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " New product information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",

"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
}
},
"traits":
{
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},

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            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates a report generator.</p>\n        <p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to update.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportGeneratorName": {
                "target": "com.amazonaws.licensemanager#ReportGeneratorName",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the report generator.</p>",
                    "smithy.api#required": {}
                }
            },
            "Type": {
                "target": "com.amazonaws.licensemanager#ReportTypeList",
                "traits": {
                    "smithy.api#documentation": "<p>Type of reports to generate. The following report types are supported:</p>\n        <ul>\n            <li>\n                <p>License configuration report - Reports the number and details of consumed licenses for a license configuration.</p>\n            </li>\n            <li>\n                <p>Resource report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n            </li>\n        </ul>",
                    "smithy.api#required": {}
                }
            },
            "ReportContext": {
                "target": "com.amazonaws.licensemanager#ReportContext",
                "traits": {
                    "smithy.api#documentation": "<p>The report context.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportFrequency": {
                "target": "com.amazonaws.licensemanager#ReportFrequency",
```

"traits":
{
"smithy.api#documentation": " Frequency by which reports are generated. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse":
{
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

```
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },

            {
                "target": "com.amazonaws.licensemanager#InvalidResourceStateException"
            },
            {
                "target": "com.amazonaws.licensemanager#LicenseUsageException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds or removes the specified license configurations for the specified
Amazon Web Services resource.</p>\n        <p>You can update the license specifications of AMIs, instances, and
hosts.\n        You cannot update the license specifications for launch templates and CloudFormation templates, \n
 as they send license configurations to the operation that creates the resource.</p>"
        }
    },

    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon Web Services
resource.</p>",
                    "smithy.api#required": {}
                }
            },
            "AddLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
                }
            },
            "RemoveLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation":
 "<p>ARNs of the license configurations to remove.</p>"
                }
```

```
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
    "type": "structure",
    "members": {},
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#UpdateServiceSettings": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
         },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Updates License Manager settings for the current Region.</p>"
    }
},
"com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
    "type": "structure",
    "members": {
        "S3BucketArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon S3 bucket where the License
Manager information is stored. "
}
},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {
"smithy.api#documentation": " Enables integration with Organizations for cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Activates cross-account discovery. "

}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UsageOperation": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
}
}
},
"com.amazonaws.licensemanager#ValidationException": {

```
            "type": "structure",
            "members": {
                "Message": {
                    "target": "com.amazonaws.licensemanager#Message"
                }
            },
            "traits": {
                "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",

        "smithy.api#error": "client",
                "smithy.api#httpError": 400
            }
        }
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {
```

```
 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version
 of the license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack,
 options); err != nil {
  return err
```

```
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if
 err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
```

```
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "DeleteLicense",
 }
}
```

1.5823 protobuf-go 1.34.2

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1.5824 httpcache 0.0.0-20180305231024-9cad4c3443a7

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1.5825 otel-exporters-otlp-otlptrace-otlptracehttp 1.19.0

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1.5826 dario-mergo 0.3.6

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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

1.5827 cbor 2.7.0

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1.5828 contrib-instrumentation-net-http-otelhttp 0.53.0

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1.5829 kustomize-api 0.17.2

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```
package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
 Plugin     string
 Option     string
 Severity   string // 'deprecated', 'removed', or 'unsupported'
 ReplacedBy string
 Additional string
 Version    string
}

func (n *Notice) ToString() string {
 s := ""
 if n.Option == "" {
  s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
 } else {
  s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
 }
 if n.Severity == SevUnsupported {
  s += "is unsupported by this migration tool in " + n.Version + "."
 } else if n.Severity == SevNewDefault {
  s += "is added as a default in " + n.Version + "."
 } else {
  s += "is " + n.Severity + " in " + n.Version + "."
 }
 if n.ReplacedBy != "" {
  s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
 }
 if n.Additional != "" {
  s += " " + n.Additional
 }
 return s
}

const (
 // The following statuses are used to indicate the state of support/deprecation in a given release.
 SevDeprecated  = "deprecated"
  // deprecated, but still completely functional
 SevIgnored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
 SevRemoved     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present
in the Corefile
 SevNewDefault  = "newdefault"  // added to the default corefile.  CoreDNS may not function properly if it is not
present in the corefile.
 SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool
```

// The following statuses are used for selecting/filtering notifications
SevAll = "all" // show all statuses
)
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==========
The common/types/pb/equal.go modification of proto.Equal logic
==========
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//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL string `json:"url,omitempty"`
}
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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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==========
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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

1.5832 tencentcloud-sdk-go-tencentcloud-tag 1.0.233

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1.5838 filepath-securejoin 0.2.4

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1.5839 proto-otlp 1.0.0

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1.5840 otel-metric 1.28.0

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1.5841 otel-exporters-otlp-otlptrace-otlptracegrpc 1.19.0

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1.5842 genproto-googleapis-rpc 0.0.0-20240701130421-f6361c86f094

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1.5846 otel-trace 1.28.0

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1.5847 x-term 0.21.0

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1.5848 kubernetes-utils 0.0.0-20240711033017-18e509b52bc8

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1.5850 protobuf 1.5.4

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1.5851 hamilton 0.44.0

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1.5858 go-textseg 15.0.0

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1.5859 tencentcloud-sdk-go-tencentcloud-sts 1.0.588

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1.5861 go-shquot 0.0.1

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1.5862 go-autorest-autorest-azure-cli 0.4.4

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1.5863 go-metrics 0.0.0-20180917152333-f0300d1749da

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1.5864 gnostic-models 0.6.8

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1.5866 genproto-googleapis-rpc 0.0.0-20230822172742-b8732ec3820d

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package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
 Plugin     string
 Option     string
 Severity   string // 'deprecated', 'removed', or 'unsupported'
 ReplacedBy string
 Additional string
 Version    string
}

func (n *Notice) ToString() string {
 s := ""
 if n.Option == "" {
  s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
 } else {
  s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
 }
 if n.Severity == SevUnsupported {
  s += "is unsupported by this migration tool in " + n.Version + "."
 } else if n.Severity == SevNewDefault {
  s += "is added as a default in " + n.Version + "."
 } else {
  s += "is " + n.Severity + " in " + n.Version + "."
 }
 if n.ReplacedBy != "" {
  s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
 }
 if n.Additional != "" {
  s += " " + n.Additional
 }
 return s
}

const (
 // The following statuses are used to indicate the state of support/deprecation in a given release.
 SevDeprecated  = "deprecated"
```

```
  // deprecated, but still completely functional
 SevIgnored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
 SevRemoved     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present
in the Corefile
 SevNewDefault  = "newdefault"  // added to the default corefile.  CoreDNS may not function properly if it is not
present in the corefile.
 SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool

 // The following statuses are used for selecting/filtering notifications
 SevAll = "all" // show all statuses
)
```

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==========
The common/types/pb/equal.go modification of proto.Equal logic
==========
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package spec

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//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL string `json:"url,omitempty"`

}
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Protocol Buffers for Go with Gadgets

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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1.5871 requests-toolbelt 1.0.0

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1.5873 h11 0.14.0

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1.5874 distro 1.9.0

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1.5875 msgpack 1.1.0

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* /opt/cola/permits/2308654179_1736176543.023195/0/netty-resolver-dns-4-1-114-final-sources-2-jar/io/netty/resolver/dns/ResolvConf.java
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* /opt/cola/permits/2308654070_1736176486.196393/0/netty-codec-dns-4-1-114-final-sources-2-jar/io/netty/handler/codec/dns/DefaultDnsPtrRecord.java
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1.5878 jetty 12.0.14

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* /opt/cola/permits/2308653484_1736176441.5499957/0/logback-core-1-5-11-sources-3-jar/ch/qos/logback/core/testUtil/TrivialStatusListener.java
* /opt/cola/permits/2308653484_1736176441.5499957/0/logback-core-1-5-11-sources-3-jar/ch/qos/logback/core/spi/ConfigurationEventListener.java
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* /opt/cola/permits/2308653484_1736176441.5499957/0/logback-core-1-5-11-sources-3-jar/ch/qos/logback/core/model/ResourceModel.java
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* /opt/cola/permits/2308653484_1736176441.5499957/0/logback-core-1-5-11-sources-3-jar/ch/qos/logback/core/rolling/LengthCounterBase.java
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* /opt/cola/permits/2308653484_1736176441.5499957/0/logback-core-1-5-11-sources-3-jar/ch/qos/logback/core/joran/ModelClassToModelHandlerLinkerBase.java
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* /opt/cola/permits/2308653484_1736176441.5499957/0/logback-core-1-5-11-sources-3-jar/ch/qos/logback/core/testUtil/DummyEncoder.java
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* /opt/cola/permits/2308653484_1736176441.5499957/0/logback-core-1-5-11-sources-3-jar/ch/qos/logback/core/sift/SiftModelHandler.java

1.5880 hikaricp 5.1.0

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* /opt/cola/permits/2308654114_1736176550.2523594/0/hikaricp-5-1-0-sources-3-jar/com/zaxxer/hikari/util/FastList.java
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* /opt/cola/permits/2308654114_1736176550.2523594/0/hikaricp-5-1-0-sources-3-jar/com/zaxxer/hikari/util/SuspendResumeLock.java
* /opt/cola/permits/2308654114_1736176550.2523594/0/hikaricp-5-1-0-sources-3-jar/com/zaxxer/hikari/pool/ProxyLeakTaskFactory.java
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* /opt/cola/permits/2308654114_1736176550.2523594/0/hikaricp-5-1-0-sources-3-jar/com/zaxxer/hikari/util/UtilityElf.java
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1.5881 send/node_modules/ms 2.1.3

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1.5884 guava 25.1.0.jre-graal-sub-1

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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/util/concurrent/package-info.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/io/MultiInputStream.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/base/Supplier.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/io/Files.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/primitives/Primitives.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/base/Throwables.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/base/Preconditions.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/base/Function.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/io/CharStreams.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/util/concurrent/AbstractFuture.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/io/LineReader.java

* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/eventbus/EventBus.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/io/Resources.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/eventbus/Subscribe.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/base/Objects.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/io/CountingInputStream.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/base/FinalizablePhantomReference.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/io/Closeables.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/EnumMultiset.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/io/LineBuffer.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/eventbus/AsyncEventBus.java
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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/base/FinalizableReferenceQueue.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/Interners.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/io/LittleEndianDataOutputStream.java
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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/HashBiMap.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/base/Charsets.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/io/Flushables.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/util/concurrent/ExecutionList.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/base/Functions.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/eventbus/package-info.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/base/Defaults.java

* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/io/package-info.java
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 /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/io/ByteStreams.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/base/Suppliers.java
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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/base/FinalizableWeakReference.java
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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/base/FinalizableReference.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/base/AbstractIterator.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/base/Predicate.java
*
 /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/base/package-info.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/base/Predicates.java
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  */

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jar/com/google/common/base/SmallCharMatcher.java
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jar/com/google/common/graph/GraphConstants.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-
jar/com/google/common/collect/ArrayListMultimapGwtSerializationDependencies.java

* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/graph/ForwardingNetwork.java
*
/opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/graph/AbstractValueGraph.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/LinkedHashMultimapGwtSerializationDependencies.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/graph/ForwardingValueGraph.java
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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/graph/ConfigurableMutableNetwork.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/graph/AbstractNetwork.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/graph/DirectedNetworkConnections.java
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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/graph/MutableValueGraph.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/graph/AbstractGraphBuilder.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/MoreCollectors.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/graph/MultiEdgesConnecting.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/graph/UndirectedGraphConnections.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/graph/UndirectedMultiNetworkConnections.java
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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/Comparators.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/graph/MapRetrievalCache.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/graph/GraphConnections.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/CollectCollectors.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/graph/AbstractUndirectedNetworkConnections.java
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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-
jar/com/google/common/graph/ConfigurableNetwork.java
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jar/com/google/common/graph/EdgesConnecting.java
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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/UnmodifiableListIterator.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/AbstractSequentialIterator.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/RowSortedTable.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/ForwardingListMultimap.java
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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/MinMaxPriorityQueue.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/SortedMapDifference.java
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```
/*
  * This method was written by Doug Lea with assistance from members of JCP JSR-166 Expert Group
  * and released to the public domain, as explained at
  * http://creativecommons.org/licenses/publicdomain
  *
  * As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
  * java.util.HashMap
 class.
  */
```

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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/util/concurrent/Striped.java
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*/
/**
  * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}
  * key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy
  * version.
  *
  * @throws UnsupportedOperationException always
  * @deprecated <b>Pass a key of type {@code Comparable}
 to use {@link
  *     ImmutableSortedMap#of(Comparable, Object)}.</b>
  */
```

Found in path(s):
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java
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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/IndexedImmutableSet.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/JdkBackedImmutableMap.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/JdkBackedImmutableBiMap.java
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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/primitives/ImmutableDoubleArray.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/hash/AbstractHashFunction.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/primitives/ImmutableIntArray.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/primitives/ImmutableLongArray.java

* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/util/concurrent/ForwardingCondition.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/util/concurrent/ForwardingLock.java
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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/base/Utf8.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/eventbus/SubscriberExceptionHandler.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/hash/HashingInputStream.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/util/concurrent/Runnables.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/base/VerifyException.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/base/Verify.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/AbstractTable.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/io/CharSequenceReader.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/eventbus/SubscriberExceptionContext.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java

* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/reflect/TypeVisitor.java
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*/
/*
  * This method was rewritten in Java from an intermediate step of the Murmur hash function in
  * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
  * following header:
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  */
```

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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/base/CommonMatcher.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/base/PatternCompiler.java
*
 /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/base/JdkPattern.java
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```

/*
 * This following method is a modified version of one found in
 * http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30
 * which contained the following notice:
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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/JdkBackedImmutableSet.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/JdkBackedImmutableMultiset.java
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*/
/**
* Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular
* version.
*/

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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/base/PairwiseEquivalence.java
*
 /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/util/concurrent/UncheckedExecutionException.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/reflect/TypeParameter.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/cache/CacheStats.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/util/concurrent/CycleDetectingLockFactory.java

* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/base/Present.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/TreeRangeSet.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/hash/Hasher.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/math/LongMath.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/cache/package-info.java
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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/hash/HashFunction.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/cache/ForwardingLoadingCache.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/primitives/ParseRequest.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/hash/Murmur3_32HashFunction.java
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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/reflect/Types.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/EmptyContiguousSet.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/math/DoubleUtils.java
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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/primitives/UnsignedLongs.java
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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/util/concurrent/ForwardingListeningExecutorService.java
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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/util/concurrent/Uninterruptibles.java
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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-

jar/com/google/common/primitives/UnsignedInteger.java
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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/hash/AbstractStreamingHasher.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/hash/AbstractNonStreamingHashFunction.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/util/concurrent/WrappingExecutorService.java
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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/hash/Funnels.java
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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/BoundType.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/cache/RemovalListeners.java
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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/util/concurrent/ExecutionError.java
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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/net/HttpHeaders.java

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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/base/Absent.java
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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/cache/CacheBuilderSpec.java
*

/opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/primitives/UnsignedLong.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/cache/RemovalCause.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/hash/AbstractCompositeHashFunction.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java
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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/base/CaseFormat.java
*
/opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/util/concurrent/FuturesGetChecked.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/util/concurrent/Futures.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/util/concurrent/TimeLimiter.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/util/concurrent/AbstractCatchingFuture.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/annotations/VisibleForTesting.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/io/AppendableWriter.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/util/concurrent/FluentFuture.java
*

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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/util/concurrent/FakeTimeLimiter.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/escape/CharEscaperBuilder.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/io/PatternFilenameFilter.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/reflect/TypeToken.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/util/concurrent/AggregateFuture.java
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/opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/util/concurrent/AbstractTransformFuture.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/util/concurrent/ImmediateFuture.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/escape/CharEscaper.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
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*/
/**
* Outer class that exists solely to let us write {@code Partially.GwtIncompatible} instead of plain
* {@code GwtIncompatible}. This is more accurate for {@link Futures#catching}, which is available
* under GWT but with a slightly different signature.
*
* <p>We can't use {@code PartiallyGwtIncompatible} because then the GWT compiler
```

wouldn't recognize
* it as a {@code GwtIncompatible} annotation. And for {@code Futures.catching}, we need the GWT
* compiler to autostrip the normal server method in order to expose the special, inherited GWT
* version.
*/

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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/graph/MutableGraph.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/io/RecursiveDeleteOption.java
*
/opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/graph/ImmutableGraph.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/graph/Graphs.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/TopKSelector.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/graph/ImmutableNetwork.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/graph/Network.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/graph/PredecessorsFunction.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-

jar/com/google/common/graph/SuccessorsFunction.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-
jar/com/google/common/graph/Graph.java
*
 /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-
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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-
jar/com/google/common/graph/AbstractBaseGraph.java
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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/util/concurrent/Monitor.java
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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/util/concurrent/UncaughtExceptionHandlers.java
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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/util/concurrent/Atomics.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/annotations/package-info.java
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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/base/MoreObjects.java
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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/hash/LongAdder.java
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jar/com/google/common/base/CharMatcher.java
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jar/com/google/common/base/internal/Finalizer.java
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jar/com/google/common/util/concurrent/AbstractCheckedFuture.java
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jar/com/google/common/collect/RegularImmutableTable.java
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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-
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jar/com/google/common/annotations/GwtCompatible.java
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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/reflect/MutableTypeToInstanceMap.java

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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/MapDifference.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/ForwardingConcurrentMap.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/MutableClassToInstanceMap.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/NaturalOrdering.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/AbstractMultiset.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/ForwardingSet.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/ForwardingQueue.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/SetMultimap.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/Sets.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/ByFunctionOrdering.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/AbstractMapEntry.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/AbstractIterator.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/ArrayListMultimap.java

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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/FilteredKeyListMultimap.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/ForwardingImmutableMap.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/FilteredEntrySetMultimap.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/TransformedIterator.java
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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/DescendingImmutableSortedSet.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/FilteredKeySetMultimap.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/SortedMultisetBridge.java
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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/ForwardingDeque.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/TreeTraverser.java
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jar/com/google/common/collect/CompactHashMap.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/CompactLinkedHashMap.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/ForwardingImmutableSet.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/AllEqualOrdering.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/RangeMap.java
*
/opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/ForwardingNavigableSet.java
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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/AbstractNavigableMap.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/TreeRangeMap.java
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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/ForwardingImmutableList.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/CompactLinkedHashSet.java
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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/AbstractMultimap.java
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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/CollectSpliterators.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/graph/package-info.java
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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java
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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/AbstractRangeSet.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/GeneralRange.java
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```
*/
/**
  * Returns an array containing all of the elements in the specified collection. This method
  * returns the elements in the order they are returned by the collection's iterator. The returned
  * array is "safe" in that no references to it are maintained by the collection. The caller is
  * thus free to modify the returned
 array.
  *
  * <p>This method assumes that the collection size doesn't change while the method is running.
  *
  * <p>TODO(kevinb): support concurrently modified collections?
  *
  * @param c the collection for which to return an array of elements
  */
```

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jar/com/google/common/hash/FarmHashFingerprint64.java
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jar/com/google/common/io/ReaderInputStream.java
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jar/com/google/common/util/concurrent/Platform.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-
jar/com/google/common/hash/MacHashFunction.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-
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jar/com/google/common/collect/GwtTransient.java
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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/UnmodifiableIterator.java
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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/ImmutableMapValues.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/SingletonImmutableBiMap.java
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* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/ComputationException.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/ComparisonChain.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/ImmutableAsList.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/ImmutableSetMultimap.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/AbstractIndexedListIterator.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/EmptyImmutableSetMultimap.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/ImmutableEnumSet.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/RegularImmutableList.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/ArrayTable.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/SingletonImmutableList.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/SingletonImmutableTable.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/ImmutableSortedMap.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/ImmutableClassToInstanceMap.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/ImmutableTable.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/DiscreteDomain.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/RegularImmutableSortedSet.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-

jar/com/google/common/collect/ForwardingTable.java
* /opt/cola/permits/2308653602_1737960381.9653084/0/guava-25-1-jre-sources-jar/com/google/common/collect/ImmutableSortedSetFauxverideShim.java

1.5885 spring-cloud-context 4.1.4

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* /opt/cola/permits/2308653945_1736176426.0497072/0/spring-cloud-context-4-1-4-2-jar/META-INF/maven/org.springframework.cloud/spring-cloud-context/pom.xml

1.5886 netty-resolver-dns-classes-macos 4.1.114.Final

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* /opt/cola/permits/2308653548_1736176663.1934357/0/netty-resolver-dns-classes-macos-4-1-114-final-sources-2-jar/io/netty/resolver/dns/macos/package-info.java
* /opt/cola/permits/2308653548_1736176663.1934357/0/netty-resolver-dns-classes-macos-4-1-114-final-sources-2-jar/io/netty/resolver/dns/macos/DnsResolver.java

1.5887 netty-transport-classes-kqueue 4.1.114.Final

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* /opt/cola/permits/2308654142_1736176530.6635652/0/netty-transport-classes-kqueue-4-1-114-final-sources-2-jar/io/netty/channel/kqueue/KQueueDomainDatagramChannelConfig.java
* /opt/cola/permits/2308654142_1736176530.6635652/0/netty-transport-classes-kqueue-4-1-114-final-sources-2-jar/io/netty/channel/kqueue/AbstractKQueueDatagramChannel.java
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* /opt/cola/permits/2308654142_1736176530.6635652/0/netty-transport-classes-kqueue-4-1-114-final-sources-2-jar/io/netty/channel/kqueue/KQueueServerSocketChannel.java
* /opt/cola/permits/2308654142_1736176530.6635652/0/netty-transport-classes-kqueue-4-1-114-final-sources-2-jar/io/netty/channel/kqueue/KQueueServerChannelConfig.java
* /opt/cola/permits/2308654142_1736176530.6635652/0/netty-transport-classes-kqueue-4-1-114-final-sources-2-jar/io/netty/channel/kqueue/KQueueSocketChannelConfig.java
* /opt/cola/permits/2308654142_1736176530.6635652/0/netty-transport-classes-kqueue-4-1-114-final-sources-2-jar/io/netty/channel/kqueue/AbstractKQueueStreamChannel.java
* /opt/cola/permits/2308654142_1736176530.6635652/0/netty-transport-classes-kqueue-4-1-114-final-sources-2-jar/io/netty/channel/kqueue/BsdSocket.java
* /opt/cola/permits/2308654142_1736176530.6635652/0/netty-transport-classes-kqueue-4-1-114-final-sources-2-jar/io/netty/channel/kqueue/KQueueDomainSocketChannel.java
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*

/opt/cola/permits/2308654142_1736176530.6635652/0/netty-transport-classes-kqueue-4-1-114-final-sources-2-jar/io/netty/channel/kqueue/KQueueStaticallyReferencedJniMethods.java
* /opt/cola/permits/2308654142_1736176530.6635652/0/netty-transport-classes-kqueue-4-1-114-final-sources-2-jar/io/netty/channel/kqueue/KQueueRecvByteAllocatorHandle.java
* /opt/cola/permits/2308654142_1736176530.6635652/0/netty-transport-classes-kqueue-4-1-114-final-sources-2-jar/io/netty/channel/kqueue/KQueue.java
* /opt/cola/permits/2308654142_1736176530.6635652/0/netty-transport-classes-kqueue-4-1-114-final-sources-2-jar/io/netty/channel/kqueue/KQueueServerSocketChannelConfig.java
* /opt/cola/permits/2308654142_1736176530.6635652/0/netty-transport-classes-kqueue-4-1-114-final-sources-2-jar/io/netty/channel/kqueue/Native.java
* /opt/cola/permits/2308654142_1736176530.6635652/0/netty-transport-classes-kqueue-4-1-114-final-sources-2-jar/io/netty/channel/kqueue/KQueueEventLoopGroup.java
*
/opt/cola/permits/2308654142_1736176530.6635652/0/netty-transport-classes-kqueue-4-1-114-final-sources-2-jar/io/netty/channel/kqueue/KQueueEventArray.java
* /opt/cola/permits/2308654142_1736176530.6635652/0/netty-transport-classes-kqueue-4-1-114-final-sources-2-jar/io/netty/channel/kqueue/KQueueSocketChannel.java
* /opt/cola/permits/2308654142_1736176530.6635652/0/netty-transport-classes-kqueue-4-1-114-final-sources-2-jar/io/netty/channel/kqueue/KQueueDomainSocketChannelConfig.java
* /opt/cola/permits/2308654142_1736176530.6635652/0/netty-transport-classes-kqueue-4-1-114-final-sources-2-jar/io/netty/channel/kqueue/KQueueChannelOption.java
* /opt/cola/permits/2308654142_1736176530.6635652/0/netty-transport-classes-kqueue-4-1-114-final-sources-2-jar/io/netty/channel/kqueue/KQueueDatagramChannelConfig.java
* /opt/cola/permits/2308654142_1736176530.6635652/0/netty-transport-classes-kqueue-4-1-114-final-sources-2-jar/io/netty/channel/kqueue/KQueueServerDomainSocketChannel.java
*
/opt/cola/permits/2308654142_1736176530.6635652/0/netty-transport-classes-kqueue-4-1-114-final-sources-2-jar/io/netty/channel/kqueue/AcceptFilter.java
* /opt/cola/permits/2308654142_1736176530.6635652/0/netty-transport-classes-kqueue-4-1-114-final-sources-2-jar/io/netty/channel/kqueue/NativeLongArray.java
* /opt/cola/permits/2308654142_1736176530.6635652/0/netty-transport-classes-kqueue-4-1-114-final-sources-2-jar/io/netty/channel/kqueue/KQueueEventLoop.java
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* /opt/cola/permits/2308654142_1736176530.6635652/0/netty-transport-classes-kqueue-4-1-114-final-sources-2-jar/io/netty/channel/kqueue/AbstractKQueueChannel.java
* /opt/cola/permits/2308654142_1736176530.6635652/0/netty-transport-classes-kqueue-4-1-114-final-sources-2-jar/io/netty/channel/kqueue/package-info.java
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1.5888 netty-transport-classes-epoll 4.1.114.Final

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* /opt/cola/permits/2308653464_1736176728.3687608/0/netty-transport-classes-epoll-4-1-114-final-sources-2-jar/io/netty/channel/epoll/EpollServerChannelConfig.java
* /opt/cola/permits/2308653464_1736176728.3687608/0/netty-transport-classes-epoll-4-1-114-final-sources-2-jar/io/netty/channel/epoll/AbstractEpollServerChannel.java
* /opt/cola/permits/2308653464_1736176728.3687608/0/netty-transport-classes-epoll-4-1-114-final-sources-2-jar/io/netty/channel/epoll/EpollEventArray.java
* /opt/cola/permits/2308653464_1736176728.3687608/0/netty-transport-classes-epoll-4-1-114-final-sources-2-jar/io/netty/channel/epoll/EpollRecvByteAllocatorHandle.java

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* /opt/cola/permits/2308653464_1736176728.3687608/0/netty-transport-classes-epoll-4-1-114-final-sources-2-jar/io/netty/channel/epoll/TcpMd5Util.java
* /opt/cola/permits/2308653464_1736176728.3687608/0/netty-transport-classes-epoll-4-1-114-final-sources-2-jar/io/netty/channel/epoll/EpollRecvByteAllocatorStreamingHandle.java
*
 /opt/cola/permits/2308653464_1736176728.3687608/0/netty-transport-classes-epoll-4-1-114-final-sources-2-jar/io/netty/channel/epoll/EpollDomainSocketChannelConfig.java
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* /opt/cola/permits/2308653464_1736176728.3687608/0/netty-transport-classes-epoll-4-1-114-final-sources-2-jar/io/netty/channel/epoll/EpollChannelConfig.java
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*/
/**

```
    * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
    * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
    * Allowing them being read would mean anyone with access to the channel could get them.

   */
```

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* /opt/cola/permits/2308653464_1736176728.3687608/0/netty-transport-classes-epoll-4-1-114-final-sources-2-jar/io/netty/channel/epoll/EpollDomainDatagramChannel.java
*
 /opt/cola/permits/2308653464_1736176728.3687608/0/netty-transport-classes-epoll-4-1-114-final-sources-2-jar/io/netty/channel/epoll/SegmentedDatagramPacket.java
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*/
/**
    * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
    * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
    * Allowing them being read would mean anyone with access to the channel could get them.

   */
/**
    * Set the {@code TCP_QUICKACK} option on the socket.
    * See <a href="https://linux.die.net//man/7/tcp">TCP_QUICKACK</a>
    * for more details.
    */
```

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Found in path(s):

* /opt/cola/permits/2308653464_1736176728.3687608/0/netty-transport-classes-epoll-4-1-114-final-sources-2-jar/META-INF/native-image/io.netty/netty-transport-classes-epoll/native-image.properties
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* /opt/cola/permits/2308653464_1736176728.3687608/0/netty-transport-classes-epoll-4-1-114-final-sources-2-jar/io/netty/channel/epoll/EpollServerSocketChannel.java
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* /opt/cola/permits/2308653464_1736176728.3687608/0/netty-transport-classes-epoll-4-1-114-final-sources-2-jar/io/netty/channel/epoll/LinuxSocket.java

1.5889 spring-boot 3.3.5

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Spring Boot 3.3.5

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1.5890 janino 3.1.12

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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Built-By: unkrig.arno
Build-Jdk: 11.0.11
Automatic-Module-Name: org.codehaus.janino
Bnd-LastModified: 1707216473825
Bundle-Description: Janino is a super-small, super-fast Java compiler.
Bundle-License: https://spdx.org/licenses/BSD-3-Clause.html
Bundle-ManifestVersion: 2
Bundle-Name: janino
Bundle-SymbolicName: org.codehaus.janino.janino;singleton:=true
Bundle-Version: 3.1.12
Export-Package: org.codehaus.janino;uses:="org.apache.tools.ant.taskdefs
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Tool: Bnd-2.4.1.201501161923
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Name: org/codehaus/janino/Java$InferredLambdaParameters.class
SHA-256-Digest:
gjBe4DkgIsuVRddk80/4JnYeg1XjR/uxKrnnLJUOBQ0=

Name: org/codehaus/janino/Unparser$5.class
SHA-256-Digest: akh67rG87pZz0btPomqdfBAUkc2oBmFjHNNyxpCtQ/Q=

Name: org/codehaus/janino/CodeContext$FourByteOffset.class

SHA-256-Digest: SKlH139Zt1pgu+aZ9VpdIg5RU30KyqnyUp8fEGpJKAM=

Name: org/codehaus/janino/Java$TextBlock.class
SHA-256-Digest: NYQe408EYLc1+X9HeFcwIFQSKWKLi/8cJiyYZpIaV64=

Name: org/codehaus/janino/Java$IfStatement.class
SHA-256-Digest: TmV2zBJGzHThVbdm37hTvIiMH07kMEhs5fh4juNhBvg=

Name: org/codehaus/janino/Java$BooleanRvalue.class
SHA-256-Digest: u0J3e2IZjrjWUNyAM98hSWxfJcXX8YBQ0ef6P2Evg1I=

Name: org/codehaus/janino/UnitCompiler$19$1.class
SHA-256-Digest: p+y6YKMeJ4pI9pXdPIFZwh/ySYmCxUZrE9Gq/8DZXHg=

Name: org/codehaus/janino/Java$FieldAccess.class
SHA-256-Digest: prFpeSMsPW5+UvxirUIGdafUnmiN9doHzCpML1yZNSk=

Name: org/codehaus/janino/Java$LocalClassDeclarationStatement.class
SHA-256-Digest: 6TJRJgk+412gNfQcu1ZmudRWDRPmiRHh6k/YWdGTXpQ=

Name: org/codehaus/janino/Java$DoStatement.class
SHA-256-Digest:
dpk5onuDwRNcDl1i+GmvP7u5QvdbKpXYY2GxzTXhz74=

Name: org/codehaus/janino/Java$LambdaExpression.class
SHA-256-Digest: OKC3RL+moKU5cogc7AtEivscq3oyp0zQkkT8c/F8q9Y=

Name: org/codehaus/janino/util/DeepCopier$14.class
SHA-256-Digest: +ujmf/IrjRR0p/EoVKN7DMs+Z57mwJW9dqf2O+F6r/8=

Name: org/codehaus/janino/Java$AbstractAnnotation.class
SHA-256-Digest: 9hDnHtGS7EvzvwrBW9sDz0m4MlT8rE8aQAy/7U20H3w=

Name: org/codehaus/janino/Java$SimpleConstant.class
SHA-256-Digest: enhgmHehsbvBZuoGoMKmBRLyJaH17KfjbpRJUupJCw4=

Name: org/codehaus/janino/SimpleCompiler$2.class
SHA-256-Digest: 92cmHLsOMT3KyvDK5i31TXfVlOQVV8NMwncs+agg0Q4=

Name: org/codehaus/janino/util/DeepCopier$6.class
SHA-256-Digest: /1DxJrW5a7f5UA8h2CAslvmuYZCJZVTvg6UZBTP5amg=

Name: org/codehaus/janino/Java$MethodDeclarator.class
SHA-256-Digest: JoW0uQUEH23x8alIgW70mXT0LilqXytfoXQJjlyJ2o0=

Name: org/codehaus/janino/Java$AbstractCompilationUnit$SingleStaticImpor
tDeclaration.class
SHA-256-Digest: tg7ZGm6qs3obTN7x6u6FkBGItEivVUKT44gg1+pziBc=

Name:
org/codehaus/janino/Java$EnumConstant.class
SHA-256-Digest: mt97v7IB4RtbDbGzm3ovo7uqCl+WIBSnh3qBRpx1ick=

Name: org/codehaus/janino/util/AbstractTraverser$10.class
SHA-256-Digest: KATysAVa1Y9JtAbUPJfgCS4aHSjIMN4hjJBxSBBM3UQ=

Name: org/codehaus/janino/util/charstream/package-info.class
SHA-256-Digest: 8+DmwWYRNX9qF9nBUeORyHnKCJxoEX2PS4q3MV0Go3o=

Name: org/codehaus/janino/UnitCompiler$Compilable2.class
SHA-256-Digest: 1YW3CaYw5VPK1lrjr6UE8o7lKD7ZY8EjDkgDTPgthFI=

Name: org/codehaus/janino/util/Annotatable.class
SHA-256-Digest: kAhf6MOHHkP8k+pLb7zzYOauUtkDe8Uaw0X5qG+EDKs=

Name: org/codehaus/janino/Java$UnaryOperation.class
SHA-256-Digest: UFF8MEGhNAvr9Ad+lAHnogBkV3s28zXt+SA0ykRPKN4=

Name: org/codehaus/janino/JavaSourceClassLoader$1.class
SHA-256-Digest: yVV9YnB58nTpRCsOC4BZ9Jw5Zsv/NS7RX5C1sYav4wc=

Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$SameLoca
ls1StackItemFrame.class
SHA-256-Digest: VnJwTb/mEuTf4tqBbfBYnn2IMit8jjNiZOxynU9nZeA=

Name:
org/codehaus/janino/Java$AbstractTypeDeclaration.class
SHA-256-Digest: 6qQWOCYUDGgBnjyW8WZB3kqwJLwON0JrWXiyQwFQeQQ=

Name: org/codehaus/janino/Java$ModuleDirective.class
SHA-256-Digest: whIVIwIAFrEvDLQwJlLR24gpIQLdpbgI0wkFqiuOjZs=

Name: org/codehaus/janino/ClassBodyEvaluator.class
SHA-256-Digest: vfsBX6M79dcz1NVtnZMw5gYb9EQ45DBzjZ8ADLZH3xA=

Name: org/codehaus/janino/FilterWarningHandler.class
SHA-256-Digest: GyTOX7BRUpBhvPstQpSpqmZgNqO0qc1goz5p4OHwQL0=

Name: org/codehaus/janino/Visitor$LvalueVisitor.class
SHA-256-Digest: VS/YAMKWizpF1t8/dZop80NudH6wxw8nyUEm/bWaoA4=

Name: org/codehaus/janino/Java$OpensModuleDirective.class
SHA-256-Digest: OXb3PEF9wmgmUoi8/5FH30liQe7+WnNdUSCZuFvA+M8=

Name: org/codehaus/janino/Java$AssertStatement.class
SHA-256-Digest: lQ/6nhzP47oYyEW0aK7sOZv3AefV4j2GP+1TNuo+4+A=

Name: org/codehaus/janino/Java$AbstractClassDeclaration.class
SHA-256-Digest: vKB1jao6laYtbYiiNaK7RLUvLxibpGrJyUD1DDdvORk=

Name: org/codehaus/janino/UnitCompiler$16$1.class
SHA-256-Digest:
7QRKkajbqevz3tTwughZfABXCIr6vWFapRBztPTnQLY=

Name: org/codehaus/janino/util/DeepCopier$12.class
SHA-256-Digest: 7v1GvZUfBZhtXSEPBNlNnipLXRdOqU6G5ODptWBQaww=

Name: org/codehaus/janino/Java$FunctionDeclarator.class
SHA-256-Digest: 9Ns3EUMi3vyNRthfFe5N2SM4OR8lSgYS9uSRUnAfMWs=

Name: org/codehaus/janino/Java$ProvidesModuleDirective.class
SHA-256-Digest: LFR+ayl22PVOhIFr0WsuoanJoNQI7GJ6B8TwKf+kqnU=

Name: org/codehaus/janino/Java$Located.class
SHA-256-Digest: uv2T9ySM3zDZW6yzfGPhTJkN9X0tOvxr5vpxuCmzQY4=

Name: org/codehaus/janino/util/ClassFile$ConstantIntegerInfo.class
SHA-256-Digest: 50HLTVpipoXiCXnvhK2HSHXShFmKTOHl2P062R9Z0/w=

Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$7.class
SHA-256-Digest: UomHgTPsDqjcDUTAlfHViA1qTJvU/HcBXVY1Tc48D9U=

Name: org/codehaus/janino/Java$UsesModuleDirective.class
SHA-256-Digest: HJ2FhYkG1sl7N8V+D6DiXaJImWcSzaPzS0M6Kqaxoxw=

Name: org/codehaus/janino/Java$BreakableStatement.class
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Name:
org/codehaus/janino/Compiler$4.class
SHA-256-Digest: MvkKdgo+8Ylp0JYGz9s6qvGvIBhlRaFe5pSBcdCZMeI=

Name: org/codehaus/janino/Java$Type.class
SHA-256-Digest: vn8Xftrh48xGQEkWbFAs/ksAbAHpAbTfzrKH2/Ba4i8=

Name: org/codehaus/janino/samples/DeclarationCounter.class
SHA-256-Digest: xO5w7Ith06+Oc3HuX+JIzVOIUuQE2tkd5qRM86z916U=

Name: org/codehaus/janino/util/DeepCopier$8.class
SHA-256-Digest: L+E/RFdmPOnOu15OsdznDIBd4Opqpq4aLCfVeYOPURE=

Name: org/codehaus/janino/UnitCompiler$30.class
SHA-256-Digest: kH8nhN7PMvizQ2cdHPkdfPbAVPuFvVTktKN01Ojk4V8=

Name: org/codehaus/janino/util/ClassFile$ArrayElementValue.class
SHA-256-Digest: 5GV6t6PWBWCgHawQyIT6yTYEBmkj3R69AacucrVKLCs=

Name: org/codehaus/janino/JavaSourceIClassLoader.class
SHA-256-Digest: i+E3mhf1fQhiuMDfZMPu/gK3SlOrJt7mmNWTsDv//iw=

Name: org/codehaus/janino/util/ClassFile$InnerClassesAttribute.class
SHA-256-Digest: rI307bj9eO6LSrRcSuK+LNZs37S7qLosGbNWtA5ihB4=

Name: org/codehaus/janino/Java$ModuleDeclaration.class
SHA-256-Digest:
zq9LFz4x5hjeeb+GTr0nJrNESEgMX/T2tqrUs8ilypU=

Name: org/codehaus/janino/UnitCompiler$28$2$1.class
SHA-256-Digest: I6qkA7qLAaCwVGJBiADAl/t706p1nMLGoTzIKOT81qw=

Name: org/codehaus/janino/util/AbstractTraverser$2.class
SHA-256-Digest: Sc66KYHIBKxC3ue+Uux+lzX+aFtn0Io0yuOqigkAGz8=

Name: org/codehaus/janino/tools/HprofScrubber$Sample.class
SHA-256-Digest: 6NXzmTtIzrkVOUX+sAiygvy4H6b9P3EaIGrB3y2lfBw=

Name: org/codehaus/janino/Java$ElementValuePair.class
SHA-256-Digest: aJpUBVa7yKf4rN8aO7f3ehapkc1szSJ2QshLbK7Cifc=

Name: org/codehaus/janino/Java$ArrayLength.class
SHA-256-Digest: r9g8VPraERpI5cefMWMYIMwSUaaxgdtHgPL5oII2vx8=

Name: org/codehaus/janino/Java$TypeParameter.class
SHA-256-Digest: Bn9OBfjhwW4bn3MO4ozlp/+LPZtagfDoU6AltCxIHoM=

Name: org/codehaus/janino/UnitCompiler.class
SHA-256-Digest: lpRdEsdRoBhgLFRI3V0eE7PUOxTWt5XWXzgdW+VeOSk=

Name: org/codehaus/janino/Java$TryStatement$VariableAccessResource.class
SHA-256-Digest: hXXOP9pe9mht68JZ+enKdxPVOfS45o0wi6wzlDiRD4k=

Name:
org/codehaus/janino/Unparser$2.class
SHA-256-Digest: 0d6eqQu9orUr2G3+VST5XRCZ/74MVntvVnZ6hCnPeRQ=

Name: org/codehaus/janino/Java$AnonymousClassDeclaration.class
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Name: org/codehaus/janino/Java$ExportsModuleDirective.class
SHA-256-Digest: ZcXSzNKrbky4eg5OqoWiAGdb28Szm6qlcJCwyT8vb5Q=

Name: org/codehaus/janino/Java$ReferenceType.class

SHA-256-Digest: 3g6ZsN7siyqdc/kw3HRFlu3i6ofy/xZqX/H0Brh9/68=

Name: org/codehaus/janino/util/signature/SignatureParser$ArrayTypeSignat
ure.class
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Name: org/codehaus/janino/util/AbstractTraverser.class
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Name: org/codehaus/janino/Parser$MethodDeclarationContext.class
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jatsmjHogAFaMNJS9J7ZqxsvHzoTirTZmruC8KFR/Bo=

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Name: org/codehaus/janino/ReflectionIClass$ReflectionIMethod.class
SHA-256-Digest: 4SAYm1AlZkgEm9vGaLTPa82AGS8V4i3Ns5j1svVz3GY=

Name: org/codehaus/janino/util/ClassFile$LineNumberTableAttribute$Entry.
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SHA-256-Digest: dMSrHkax0/ZH6Dwki1ZeJKo/9EMliI82iOSjVJmgAqQ=

Name: org/codehaus/janino/UnitCompiler$3.class
SHA-256-Digest: tD7bISdKwW6YwgNzB+017UIbSCfkkFagW14/k8hv7C0=

Name: org/codehaus/janino/util/signature/SignatureParser$MethodTypeSigna
ture.class
SHA-256-Digest: X82bqlAdAy85rnn6hgCMusghZjwsq60EWGgjCU6acSM=

Name: org/codehaus/janino/Java$InnerClassDeclaration.class
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Name: org/codehaus/janino/Java$EnclosingScopeOfTypeDeclaration.class
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WseRyhHzYF7l+Pdjop0SKTog1/yDPs5vRUB9fFcL2Kw=

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Name: org/codehaus/janino/util/ClassFile$ConstantMethodrefInfo.class
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Name: org/codehaus/janino/Java$CompilationUnit.class
SHA-256-Digest: mcnJcDY/wp/o/C85yNE/IgDJyBbHbkZ8cpKdIWQwA3Y=

Name: org/codehaus/janino/Java$BreakStatement.class
SHA-256-Digest: fKzQ4jXbhkbm8PrnRqViPMS6Jio/94Ol4P29sCqa5Nw=

Name: org/codehaus/janino/UnitCompiler$18.class
SHA-256-Digest: ssLxJu/Hp+M+MX++D5fpR7r9JNXBogw9RpFdX0vr7JQ=

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Name: org/codehaus/janino/Java$Package.class
SHA-256-Digest: JXAUhRTjaLxmNfJgfEvr1kBmnAZ7XYKZtwAKlHaR5GA=

Name: org/codehaus/janino/UnitCompiler$9.class
SHA-256-Digest: ze/mjGrkvWzPKPlycY00ppomGyESK8Z+GhVrmMHfv4I=

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org/codehaus/janino/Java$AmbiguousName.class
SHA-256-Digest: 28PqHza6oNF1xthIWzDyC9fdCLhYZCtxiJuNZRxW0yM=

Name: org/codehaus/janino/UnicodeUnescapeException.class
SHA-256-Digest: IYsRGOywvJjhU34iHRNUkYTgTzVCkUPksckasCrdxZ8=

Name: org/codehaus/janino/Java$ElementValueArrayInitializer.class
SHA-256-Digest: qqvB7OvEpSwrxzIDqWmI5qyQUHgE+JckdsMRFWAlxTg=

Name: org/codehaus/janino/Java$PrimitiveType.class
SHA-256-Digest: CkjnsRVzyJ/bjDqpeSWJXO0sjpJbP/355Uih8wZfctc=

Name: org/codehaus/janino/UnitCompiler$ClassFileConsumer.class
SHA-256-Digest: HLbGPuZnn0GChNtw4+bMUa2qacpwf14tDDpZRaoWt/s=

Name: org/codehaus/janino/Java$NewInitializedArray.class
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Name: org/codehaus/janino/util/AbstractTraverser$7.class
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Name: org/codehaus/janino/Java$NewArray.class
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Name: org/codehaus/janino/Java$ContinueStatement.class

SHA-256-Digest:
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Name: org/codehaus/janino/util/ClassFile$ConstantValueAttribute.class
SHA-256-Digest: 3L4wS943HC00rWPxr7obIFobWKSzB2HW1fCtYGfsQD8=

Name: org/codehaus/janino/util/ClassFile$ConstantDoubleInfo.class
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rce.class
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Name: org/codehaus/janino/Java$BooleanLiteral.class
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Name: org/codehaus/janino/Java$Padder.class
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Name: org/codehaus/janino/util/DeepCopier.class
SHA-256-Digest: mAMnfKUjkgKMahk8mD5scEKUIZl80RpUSoZn/Pm4qms=

Name: META-INF/maven/org.codehaus.janino/janino/pom.properties
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Name: org/codehaus/janino/Parser$1.class
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org/codehaus/janino/ExpressionEvaluator.class
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Name: org/codehaus/janino/MethodDescriptor.class
SHA-256-Digest: 0pOqbxkxlOeCZNbTSGeQjmqlZOdqso4+DmV4cz2h8B8=

Name: org/codehaus/janino/Java$Assignment.class
SHA-256-Digest: zM3r+DWFvItUaQurvtqqUfWT919aTBhCetiaLBlICvs=

Name: META-INF/services/org.codehaus.commons.compiler.ICompilerFactory
SHA-256-Digest: /B4rVKhH4KDlEeVF4EOJ/rxo1+SlSuBPFW88hClhQfE=

Name: org/codehaus/janino/Visitor$AnnotationVisitor.class
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Name: org/codehaus/janino/tools/HprofScrubber$1.class
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Name: org/codehaus/janino/IParameterizedType.class

SHA-256-Digest: qRPl9Fkx87UZTDa68W6Ur40EmKxGBOGCrWiLZgMKAp8=

Name: org/codehaus/janino/Visitor$RvalueVisitor.class
SHA-256-Digest: SmSjKU6ohfgTRoGRo+OJRoa/el1nxnkjZ9Br3Q3kKP0=

Name: org/codehaus/janino/Visitor$ModuleDirectiveVisitor.class
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AIwWoeesjhvPStASQrIbl+kM6IxBkBa3WQw4Fw23yzE=

Name: org/codehaus/janino/UnitCompiler$8.class
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Name: org/codehaus/janino/AntCompilerAdapter.class
SHA-256-Digest: RBkMlMcamLRfOv/ZcKhTeqZ/Vd9IWL8f/TOpOzxhrdc=

Name: org/codehaus/janino/Java$Located$1.class
SHA-256-Digest: EXNQcDuQH8/UOCgIt8VEzIv69NURxgKMAWB+FbZ4cBo=

Name: org/codehaus/janino/util/signature/SignatureParser$TypeVariableSig
nature.class
SHA-256-Digest: pVV+X1Upk45h7TtEqRu01TZ1DJ+kZPddSyO3XmvJcOw=

Name: org/codehaus/janino/util/AbstractTraverser$11.class
SHA-256-Digest: BDu7QAi18ura8SV9XrrETLmRNGlgv3YZPtSj1p9ykqI=

Name: org/codehaus/janino/Visitor$TryStatementResourceVisitor.class
SHA-256-Digest: cytJ3JY7B9ITcyP09RQVb6QCkjBXtrNwJ3lfnzYxBck=

Name: org/codehaus/janino/Java$MemberTypeDeclaration.class
SHA-256-Digest: qyeAoING7Ced411A0kBkJPvgHeIrr+UoXy9ALvoummI=

Name: org/codehaus/janino/Java$SuperConstructorInvocation.class
SHA-256-Digest:
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Name: org/codehaus/janino/Visitor$LambdaBodyVisitor.class
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Name: org/codehaus/janino/ClassFileIClass$5.class
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SHA-256-Digest: yqGfk0iW/yj2RLpHY1YCJjRZ0Pbc/h+5ILuEamt4i/U=

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SHA-256-Digest: 1TfCvEVn5v55U8l6SyABNgunWNYW/odXvlJd1L+iw/k=

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Name:
org/codehaus/janino/util/ClassFile$AnnotationDefaultAttribute.clas
s
SHA-256-Digest: 3jwfLTDSZH7YjPYciOUjPTGxdXan1uuEqcQdbUdB3CY=

Name: org/codehaus/janino/Java$BlockStatement.class
SHA-256-Digest: Og+d3CpAy8MfHNZj/O3sPpHa9yKEEK+dMLy0Ll8ConU=

Name: org/codehaus/janino/UnitCompiler$2.class
SHA-256-Digest: A8kWi4wcw0NTAOudJoOHFI13Z9CQctt+NqgnX7gDHFk=

Name: org/codehaus/janino/util/DeepCopier$15.class
SHA-256-Digest: 5xbQ2bEO4SrE9oBe1OzCY3uaz1Fmlkn+/MEE/tQgbK0=

Name: org/codehaus/janino/ClassFileIClass$4.class
SHA-256-Digest: dy7cw2i8Xz5I9AZohnhSKppWb0y3Rg1R23ymqGAP+rQ=

Name: org/codehaus/janino/util/AbstractTraverser$6.class
SHA-256-Digest: l3xCZUyf8NxMuTf+RMgQ8y9u1/1Y4MEkrMVvcMFymcs=

Name: org/codehaus/janino/Java$Instanceof.class
SHA-256-Digest: U4cy9mLeDgFFkdp3qRrVFGXPcNaJiRxUFYbMNMTSKRE=

Name: org/codehaus/janino/Java$TypeBodyDeclaration.class
SHA-256-Digest: +hwzxPKvbyj/t74MC8dvnUHco869VV84a5zbdqQabak=

Name: org/codehaus/janino/IClass$IMember.class
SHA-256-Digest:
ZE/7CB/CHeeuWYy6soOFmCsOljmbXohSqtbjWLo4OjM=

Name: org/codehaus/janino/util/ClassFile$StringElementValue.class
SHA-256-Digest: bbx/xuP3wBkURBrFJ0CY3rOMarHJ2XQ7s5hBicu2x0k=

Name: org/codehaus/janino/Java$RvalueMemberType.class
SHA-256-Digest: BctTTuI+L9LxWUpqSDv2mOPhk0LyYnk2y5gPDb+f69k=

Name: org/codehaus/janino/ResourceFinderIClassLoader.class

SHA-256-Digest: zPF7fDajwuREoLU4a9oKYssxneIPpVdLlY1iBCItwcQ=

Name: org/codehaus/janino/Java$Annotatable.class
SHA-256-Digest: YehuCqSnwPGJQpQfTZmLDI/cZNoolCQ8D8co2FmhgFk=

Name: org/codehaus/janino/CodeContext$Offset.class
SHA-256-Digest: Mhhd8EBLDcH/Ab0VWbuZm+LOSN+0J3eTOFNRwbveUrk=

Name: org/codehaus/janino/Visitor$AtomVisitor.class
SHA-256-Digest: p3DrZWVylI8a+a89owX1CF5nuxJfg+0wWU3LOknCu1c=

Name: org/codehaus/janino/Java$FieldAccessExpression.class
SHA-256-Digest: 7y2b+c1RYFucI2CqlS1BXY2YaxU/TA7bJMiZQ/9sPa8=

Name: org/codehaus/janino/util/package-info.class
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Name: org/codehaus/janino/Java$PackageMemberAnnotationTypeDeclaration.cl
ass
SHA-256-Digest: V2MkOv/iWNyghk7631czQA0gsmcxe7t+eugttcRBRn8=

Name: org/codehaus/janino/Java$Modifier.class
SHA-256-Digest: 5IIp03WsZ8jDFQuZnL8Y4YGkzZhv/wNQhfz0R5KIse4=

Name: org/codehaus/janino/util/signature/SignatureParser$SimpleClassType
Signature.class
SHA-256-Digest: PntGWzzz1Qw7Ca2W/UNwil0+346OHR2+GsOHPXfHc0I=

Name: org/codehaus/janino/Java$ConstructorDeclarator.class
SHA-256-Digest: pKQ/Kg4eO68A628qmHlW61BRBHX2MDvLyJComOQQgVI=

Name: org/codehaus/janino/UnitCompiler$31$2.class
SHA-256-Digest: lpPrBUWqPK5DaRqRszviESeSw+sZkq3eZg2hjSb4Olg=

Name: org/codehaus/janino/util/signature/SignatureParser$ClassTypeSignat
ure.class
SHA-256-Digest: eFiM5TtbHBLoIpn83w8mlaKeA0D1QppMtOF4HD51nlU=

Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute.class
SHA-256-Digest: 0Q3CwJO+iITgTB77SecsazpjxEyVu0G95ys0zHfqN5s=

Name: org/codehaus/janino/util/ClassFile$InnerClassesAttribute$Entry.cla
ss
SHA-256-Digest: skO2e5pM5fGeuT5lSXCEGNS6/Wggd6eKmKPJvYEkbko=

Name:
org/codehaus/janino/StackMap.class
SHA-256-Digest: /9Rko6qntikUXqlViNQ+GwFR1iT8qQHq0lEHmsWnNKo=

Name: org/codehaus/janino/CodeContext$Relocatable.class
SHA-256-Digest: wS9FyX0bHSjuCkl+8pY+PZYEW2MN+rA3u+sM+Tj22MU=

Name: org/codehaus/janino/Java$ArrayType.class
SHA-256-Digest: CL/djwEABd11+3QJs6b+5j8QAJkXSUDAEpGmY83nsg0=

Name: org/codehaus/janino/UnitCompiler$7.class
SHA-256-Digest: qbOpDOC7pSjyQrQ/b1L06CufRGlDRBTFN4ioLTN6S5M=

Name: org/codehaus/janino/JavaSourceClassLoader.class
SHA-256-Digest: EVvw3EEeS09c2QsanlwiEYTtEwMiSl35Ytr6n2J0Qws=

Name: org/codehaus/janino/util/signature/SignatureParser$1.class
SHA-256-Digest: jxg4kgKDg9wTUjjWydtZd+7OCUbscye0chje3jqqmDE=

Name: org/codehaus/janino/CodeContext$Inserter.class
SHA-256-Digest: 2CcCDDaMpMW5/vZG67+GdSwqxFWT19upMPgYWCX5foU=

Name: org/codehaus/janino/util/charstream/StringCharStream.class
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Name: org/codehaus/janino/UnitCompiler$11.class
SHA-256-Digest:
rRWaqOyfNxO05/cp6ETDEK30VujVxOWdQmzgCS6WZkI=

Name: org/codehaus/janino/Compiler$4$1.class
SHA-256-Digest: A6d5KKd/jkczeOmbrsxFZaOi4Ih2jVen5x13cree9LE=

Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$SameFram
e.class
SHA-256-Digest: OREViZG0UIDfA5IWoTeDXaXdJPR1p/Mjq9XVVS41ij8=

Name: org/codehaus/janino/util/DeepCopier$17.class
SHA-256-Digest: SImslHJg4DwQgozaSScFdLt9qQfGgmmCsTm97smY0GA=

Name: org/codehaus/janino/UnitCompiler$14.class
SHA-256-Digest: Zbf8PHF7My+lPnCjGcziosPO4IGrFlNoTv0kE+QG2XA=

Name: org/codehaus/janino/ClassFileIClass$6.class
SHA-256-Digest: b/hBweARduDw44CSi7Ae+9AQDjTvdAvwHDGNyz7sdl4=

Name: org/codehaus/janino/IType.class
SHA-256-Digest: z2yCXH9AYUyUx2aIqHI+P8At67652dwgSxQok7HgldU=

Name: org/codehaus/janino/util/ClassFile$LocalVariableTableAttribute$Ent
ry.class
SHA-256-Digest: ZzMeDXw0btMybO0BZuzGCyBj7cYbblmr+bS/xmV3fdw=

Name: org/codehaus/janino/util/ClassFile$SyntheticAttribute.class
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Name:
org/codehaus/janino/util/ClassFile$ConstantUtf8Info.class
SHA-256-Digest: VYkRnqLYzgSJ+ZR7zqC4V/PQDDbWTyZhPggcSrl5mXw=

Name: org/codehaus/janino/IClass$IConstructor.class
SHA-256-Digest: S19H03w90f2TRYeKcAcgxkLPBYRKQWCMAeTC4B6j+FQ=

Name: org/codehaus/janino/Java$SimpleType.class
SHA-256-Digest: +ErmqJjfqf24JHQvN9tYCmlPoNWTIuaL0KgDpbB/wxA=

Name: org/codehaus/janino/Java$ThisReference.class
SHA-256-Digest: Hao5TYDjYzpgDwwlTkaS2j6E5i37+iPGb4MMx4uPt8U=

Name: org/codehaus/janino/util/AbstractTraverser$8.class
SHA-256-Digest: Z+pTg7fxJoTAVQitElT0FMNFFdKOurGlVaZhGgNFmMA=

Name: org/codehaus/janino/UnitCompiler$SimpleIField.class
SHA-256-Digest: MI4WAc+zS7wStMN6dazd7hKefVER2fu2isZF5zibYVo=

Name: org/codehaus/janino/Java$BinaryOperation.class
SHA-256-Digest: fMybLTTA6tts1POjYQ+2fLgJhOuctDmOoc8iAFzgMec=

Name: org/codehaus/janino/util/signature/SignatureParser$4.class
SHA-256-Digest: OYidRLdk9ysmY/RcldLeOqoRKXTAIvXczBMnYpjV+8Q=

Name: org/codehaus/janino/Visitor$ArrayInitializerOrRvalueVisitor.class
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OgAwiuCCjpzwSq4sPWNqUftz7ywKaRFBPELSkODgUQE=

Name: org/codehaus/janino/UnitCompiler$13.class
SHA-256-Digest: 5x2Uda+mK2pjDLQINizfoqCkrXD10TICqo9YfL/jdag=

Name: org/codehaus/janino/Java$FunctionDeclarator$FormalParameters.class
SHA-256-Digest: otynIT83XQsNo82WBixPhcrFlXQERWiUfFzogB8lOB8=

Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$ChopFram
e.class
SHA-256-Digest: /P6CPMKW/ZSh9GykNtV2So96gt2SwGWzLqPXAF4ANU4=

Name: org/codehaus/janino/UnitCompiler$4.class
SHA-256-Digest: JCc+Wr07CT+vSDrCxWw8Lf3BsQxVZCB5F/P+qi+u+Ng=

Name: org/codehaus/janino/util/ClassFile$ShortElementValue.class
SHA-256-Digest: nW07viyeAsnqxQsCJnzV1oIlWUkBI1aOxxXk+LQCqfc=

Name: org/codehaus/janino/ClassFileIClass$7.class
SHA-256-Digest: GzoKYxwKQbyV08SxuOd+vj1d/btMjLY9EGsSpNsLZVs=

Name: org/codehaus/janino/Java$Primitive.class
SHA-256-Digest: WP2rQUDskbJxV4s8l7LQj+riOrKgujMdPAR1Rxt7Ry8=

Name: org/codehaus/janino/util/AbstractTraverser$9.class
SHA-256-Digest:
rSSV6Iehvz/p4MKxUEOW3qmueIrSepEnJCcwrVffAUY=

Name: org/codehaus/janino/Java$ArrayInitializerOrRvalue.class
SHA-256-Digest: sqApJ4ZsroVyw46maD1zSM4l3vB8s0H6oS+zbVbatjQ=

Name: org/codehaus/janino/util/DeepCopier$18.class
SHA-256-Digest: rRt3/a1PyzI9Zyn92J8m7EKj3+JRlxMqkOvLBW5iSfQ=

Name: org/codehaus/janino/Visitor$BlockStatementVisitor.class
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Name: org/codehaus/janino/util/signature/SignatureParser$ClassSignature.
class
SHA-256-Digest: U4wQ3iVtPgJUwW7MGZQ0hlqeUdP/vnj7AGChzH/xeRg=

Name: org/codehaus/janino/Java$Lvalue.class
SHA-256-Digest: Aqe3FL6yEFHBMwVtaSS0x928K0j5EhTNrFkACmvFxf0=

Name: org/codehaus/janino/ClassFileIClass$2$1.class
SHA-256-Digest: byMyvsFqGUGL6vVgLJkgxEw6uxmRIsQFGQUJo89yIFU=

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ion.class
SHA-256-Digest: aespNa/+ApSMqvTkD1+UEtMsIEqDV99kzd1mXJZxZrI=

Name: org/codehaus/janino/Mod.class
SHA-256-Digest: CVMW4E342ufw+qFhNCN0JgbO+G9w68jkfmrgmCfdbCU=

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Name: org/codehaus/janino/CachingJavaSourceClassLoader.class
SHA-256-Digest: Z5poyEza/T+RZBwNix7K0dbZMxBLmpWlbfxoqBcDmLY=

Name: org/codehaus/janino/UnitCompiler$12.class
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Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$StackMap

FrameVisitor.class
SHA-256-Digest: avBZARS20hxUjeQEEpPEsgBTYb417JVA06jBY1hwU0o=

Name: org/codehaus/janino/UnitCompiler$5.class
SHA-256-Digest: AoOokY80GWwFKObmdHKGHIGItg+7xQ+CJvTGK84ljvM=

Name: org/codehaus/janino/Java$TryStatement.class
SHA-256-Digest: H4xXKvT/BW9FgDlGoT6iayEtmP4GyCj8pNRwDVGOJ4s=

Name: org/codehaus/janino/TokenType.class
SHA-256-Digest: koUfzJ/KGTtVaNsIDRNBZ7phiTGxU+is5VAPlxdj2Y0=

Name: org/codehaus/janino/Java$ArrayCreationReference.class
SHA-256-Digest: ombbXelcJLXhfihIqO4RoaJjZaPWSurnHX3hCCOWdjo=

Name:
org/codehaus/janino/Java$AbstractCompilationUnit$StaticImportOnDem
andDeclaration.class
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Name: org/codehaus/janino/util/ClassFile$ElementValue.class
SHA-256-Digest: hWUawFQtL7UshZ1IzMc+xyfAo5bvVhLEwfqEHbuhIXM=

Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$SameLoca
ls1StackItemFrameExtended.class
SHA-256-Digest: Fq2ysQrVT955SFF1sojnkRiGaBOVZHJw06JenTrgi+4=

Name: org/codehaus/janino/Java$NamedClassDeclaration.class
SHA-256-Digest: RlEwF6xFuR/Q/NHW/ochp/u0R+EQNtVgHulyrSvro58=

Name: org/codehaus/janino/tools/package-info.class
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Name: org/codehaus/janino/Visitor$LambdaParametersVisitor.class
SHA-256-Digest: nSC0HABE6HiyfXOLnCLlK/F73XaUw/YRegyDgPgwWSQ=

Name: org/codehaus/janino/util/signature/SignatureParser$FieldTypeSignat
ureVisitor.class
SHA-256-Digest: 80dkTysNUjxBUM6q1rXrEmjquVbY9uSevn/mH2eHP5M=

Name: org/codehaus/janino/UnitCompiler$15.class
SHA-256-Digest:
CTtYwyolDv1q4h0fskWW2YbLjMPpTyiBqD0pg3EyjwA=

Name: org/codehaus/janino/Unparser$6.class
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SHA-256-Digest: PzDjWfWQrs7U4k3SrcqW8QpaPQWR9qtKwQj13Y1O6QY=

Name: org/codehaus/janino/Java$IdentifierLambdaParameters.class
SHA-256-Digest: Jvow7aF6SYx6ja6m6n05yttYsBqSOsaM8mKq5Q61q5M=

Name: org/codehaus/janino/Java$Literal.class
SHA-256-Digest: 2c6a8YyRt4FrvWoM1QiHKeThfg0qPxTUutLTwTpDl3E=

Name: org/codehaus/janino/util/ClassFile$DeprecatedAttribute.class
SHA-256-Digest: hOZxwKcn6FD5w1e3ULTuLal/Yeh/zgYtcJiL5VCvzV0=

Name: org/codehaus/janino/tools/HprofScrubber$Site.class
SHA-256-Digest: UONQtNrblYzUHJy2u5POVdoDgqBmPJZ8BJTv+4DznXE=

Name: org/codehaus/janino/Java$MemberEnumDeclaration.class
SHA-256-Digest: FH+WzkJNRs4LucPx6iJTfb1qm16WZazt2XW+izVZAHc=

Name: org/codehaus/janino/Java$EnumDeclaration.class
SHA-256-Digest: NKdSiLL8TF5brnrhh9JS+lCSb8H9gKKP3wVbtQ9O0hI=

Name:
org/codehaus/janino/UnitCompiler$28.class
SHA-256-Digest: 252L41TK6iIEnUi2kk9nfsVMrwWaj8CwNNQRE6r8rbU=

Name: org/codehaus/janino/util/signature/SignatureParser$PrimitiveTypeSi
gnature.class
SHA-256-Digest: XxDCzKCc1epSB9i1eg5t3wJPjFXfaND80bTmQlOx4lM=

Name: org/codehaus/janino/Java$Rvalue$2.class
SHA-256-Digest: 3rdr1GJDLwq28aDbVwyTpc5Ot1WodWgXUWzPplQ5OvM=

Name: org/codehaus/janino/util/ClassFile$FieldInfo.class
SHA-256-Digest: VKGgA/PeFVQ07d+L3V4bIUTjhFaIQ7oMsig+Nr9ArJo=

Name: org/codehaus/janino/util/DeepCopier$13.class
SHA-256-Digest: FJ1Rfwjv69hl3k/bOGxX0l4cy4CNnQBCJGDbYIfjBMw=

Name: org/codehaus/janino/util/ClassFile$ConstantPoolInfo.class
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Name: org/codehaus/janino/UnitCompiler$42.class
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Name: org/codehaus/janino/Java$ThrowStatement.class
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Name: org/codehaus/janino/util/ClassFile$AttributeInfo.class
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mlHN0E0qyJEivsA/Uz9BtGyvS96tjbYl7cQs8/worHw=

Name: org/codehaus/janino/Java$ConstructorInvocation.class
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Name: org/codehaus/janino/ScriptEvaluator$Script.class
SHA-256-Digest: WyzQGWfT3twvSfQK7OQ4QIRR2Jbgrra9cWTI83+NzTg=

Name: META-INF/maven/org.codehaus.janino/janino/pom.xml
SHA-256-Digest: exDpA00jkVcvSFkN7L5ncZ/a7kPpjgCu/zHIAR+3mYI=

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SHA-256-Digest: 66mq0JQ4XuvWdviPPaBk+CJEPXVm3Sns7YWsW2+5DGc=

Name: org/codehaus/janino/Java$AbstractCompilationUnit$TypeImportOnDeman
dDeclaration.class
SHA-256-Digest: HjVPkpb2hdROgH2GqL7F/0/GZD7jkkypFReC6jzhzyg=

Name: org/codehaus/janino/Visitor$TypeVisitor.class
SHA-256-Digest: 4fYFKFcWsp9Qcr3Au3qMZacwoZblRdGyiUnRiuG4F0s=

Name: org/codehaus/janino/util/AbstractTraverser$4$1.class
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Name: org/codehaus/janino/IClass$IField.class
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Name:
org/codehaus/janino/Java$FieldDeclaration.class
SHA-256-Digest: 3/VHiiel8HlJapUKeuTOC2UOz0cmy1W7NflMzSM1X1s=

Name: org/codehaus/janino/SimpleCompiler$3.class
SHA-256-Digest: Ck8RRR6R+MmnZKWO1LN1PCMovLSDAYIMO+UDZILC4Wg=

Name: org/codehaus/janino/UnitCompiler$1.class
SHA-256-Digest: 9yLg8S06x/H16NJ688QhPvX+JVtkuHKRRL3O8wqLY9c=

Name: org/codehaus/janino/Java$LocalVariableAccess.class
SHA-256-Digest: iR9JnVky8i76MpkR7o8DVbfjUeWrs1lunA6R5jAKTSQ=

Name: org/codehaus/janino/Java$FloatingPointLiteral.class
SHA-256-Digest: z1204VBa0lxt5itrRWSHLqTFgpsAwhskMLyyDuGXkFM=

Name: org/codehaus/janino/util/charstream/CharStream.class
SHA-256-Digest: DQwBuVr34NT9jVRJzRfS+mDhfQtkL3nXwHTEDBpZ4mc=

Name: org/codehaus/janino/Java$MarkerAnnotation.class
SHA-256-Digest: Yqz6mniTZkDZ9DOJNTyfEfsvYTnqltUPtn+XBB8Dmhk=

Name: org/codehaus/janino/Java$Wildcard.class
SHA-256-Digest: MES68QyB++wEuWOh4P5rMVYITz46hH2/3ScYfZK7DY8=

Name: org/codehaus/janino/Scanner.class
SHA-256-Digest:
d4JdILsh2A8K5TDQ1g+AVPSI72R7j0uBC5WgzVhasfo=

Name: org/codehaus/janino/Java$FunctionDeclarator$FormalParameter.class
SHA-256-Digest: duJrpX6C4cgtsBRZDCgSXKBcBkuSE0Uo1BYmrMQHfIw=

Name: org/codehaus/janino/Unparser$16.class
SHA-256-Digest: w8zWln3qSeLP4wHdRAmb5Jdw1AzgRVF9+3TE/v76OEA=

Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$ObjectVa
riableInfo.class
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Name: org/codehaus/janino/UnitCompiler$10.class
SHA-256-Digest: DirX7/whQjEWeRVAE9vvAwUEZ9OwXx23zsooLb3j1Yg=

Name: org/codehaus/janino/util/AbstractTraverser$5.class
SHA-256-Digest: 13l0KNcRixOxLiBqMaLYiMjXVlCaAEcXQqS4lfI24nU=

Name: org/codehaus/janino/CompilerFactory$2.class
SHA-256-Digest: g2In4lGx8bQt+25TUlDWRc4FjHKSWdbg1eE20mUyHWQ=

Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$AppendFr
ame.class
SHA-256-Digest:
PL6IZdjjHLkBeFQaAUXh54PLQ0wOjbK6ZU5UP38F0vc=

Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$6.class
SHA-256-Digest: 63ZXhRiE6+N6zQvRdDNsrWYY6yhqbaQ1f3L+Ny7vQKo=

Name: org/codehaus/janino/Java$ClassInstanceCreationReference.class
SHA-256-Digest: X59Bfr4xMPBie0TIBNkl/bp9pe+maT9EcLPa/gsyJds=

Name: org/codehaus/janino/util/signature/SignatureParser$TypeArgument.cl
ass
SHA-256-Digest: nO5PQxLQy/4MM6R97Hb3+rFufcIX0f3dkmX5CWX6/Gg=

Name: org/codehaus/janino/util/ClassFile$ConstantFloatInfo.class
SHA-256-Digest: lY3u0ZX69UgbEFhWsT1b+rgy+I8+hJs0WXNm4GaO4+8=

Name: org/codehaus/janino/IClass$2.class
SHA-256-Digest: dBI8mDtV1RXUNdV03r1eNbjZr89eUPbuCxCXpz1paR0=

Name: org/codehaus/janino/Java$Annotation.class
SHA-256-Digest: OrRoYtOnSo8CtTBCH0JkGM4tVRuMrA4M4Y6WM8S1gzc=

Name: org/codehaus/janino/util/ClassFile$ConstantClassInfo.class
SHA-256-Digest: 6/eDw6WPp7a/8TJ1BbLBNCj1kxV9OOxWXh5ZduH9IPQ=

Name: org/codehaus/janino/SimpleCompiler.class
SHA-256-Digest: zh0kmFWqOkOBo42Ufsn9sFXc1Ck10enhNP+Bu+EFIDE=

Name:
org/codehaus/janino/UnitCompiler$21.class
SHA-256-Digest: p6WtQFgrWpGOR0mlqKXmUV7G5KLgHwciW36MpZ0+MHA=

Name: org/codehaus/janino/Visitor$ConstructorInvocationVisitor.class
SHA-256-Digest: Z9HPO6UwRooj5cC1diKHsC0jq7mKXlGGSw7szOwhAMo=

Name: org/codehaus/janino/util/ClassFile$LongElementValue.class
SHA-256-Digest: Sfex8GDDYAukI8IbHxUAkUAIUPLpE1P/8O1KMh5JYF0=

Name: org/codehaus/janino/IWildcardType.class
SHA-256-Digest: cajE+0BYNkXuFc1yXnOlQQ4pSg7lfk8BSfySrAMdoUU=

Name: org/codehaus/janino/util/ClassFile$AnnotationsAttribute.class
SHA-256-Digest: V2sr07koVznIx5EfiRugKLp7Hr/M94MOlQCAnxYM5kQ=

Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$SameFram
eExtended.class
SHA-256-Digest: tPoGgGWo14PfIOj1In1D0XPABlZn1qpzEO/lxLL6gJY=

Name: org/codehaus/janino/Java$StringLiteral.class
SHA-256-Digest: mWdyrm1PqnG59Kuz0FasXnoe8BAp5mwpMP6RCW5T9DI=

Name: org/codehaus/janino/util/ClassFile$SignatureAttribute.class
SHA-256-Digest: uFaMVomGWHtsp0ig01tybyzJ6+01t746mCu4vdL6G8Q=

Name:
org/codehaus/janino/Java$SwitchStatement.class
SHA-256-Digest: wmrAadx6OwPOs22x+sQrQY7JN6ODbypHhYjS2jWsPO0=

Name: org/codehaus/janino/ClassFileIClass$3.class
SHA-256-Digest: BqANdg23JLyblme3Dr7bJ+IEWNlnC7t78gLzvCFN0FI=

Name: org/codehaus/janino/util/DeepCopier$9.class
SHA-256-Digest: VAOh0ov4Vlp2UjnZyFIThm72i/Mddbctc8lFRneeSDw=

Name: org/codehaus/janino/CompilerFactory.class
SHA-256-Digest: sBZIS02QjVsFbjJGJDEIMTZC9TQ9GJgOFd3LpqABTkk=

Name: org/codehaus/janino/Java$EmptyStatement.class
SHA-256-Digest: ELq5mo+drlpHQ/XFl9WfN/66klQ3WFtGLXNpB8O4dPo=

Name: org/codehaus/janino/util/AbstractTraverser$3.class
SHA-256-Digest: jxPdw+2akIlpZkpcOI5blLUz7GelhdfT4yopwz+kv9A=

Name: org/codehaus/janino/IClass$IAnnotation.class
SHA-256-Digest: tY2Gkie/CT/z8bGZ1mtnDXmyp8Z+W8yDsVh7FAJ+UXM=

Name: org/codehaus/janino/Visitor$ImportVisitor.class
SHA-256-Digest: NMnBMaEl65fU0f1ydHjM9R+HyaAHiraeqV0twsDd19U=

Name: org/codehaus/janino/CodeContext$BasicBlock.class
SHA-256-Digest:
va9sCuxMeZq14Aq3U1G/+4tX4IiWfnf2a1ua/ySfIpI=

Name: org/codehaus/janino/Java$MemberClassDeclaration.class
SHA-256-Digest: vI8aS/dQf4c3xDf52oq1ryipts8lfSW2RKJG7ofJMRo=

Name: org/codehaus/janino/Java$ConditionalExpression.class
SHA-256-Digest: yiEaqS+m1jMSUbC924vJ4TxnuRzCaKW4F0o0CyxgXwQ=

Name: org/codehaus/janino/Java$LambdaParameters.class
SHA-256-Digest: YYAw4Bp+by56XKQMJZb5N1Mz4jLx7jS3JlUeCPC9afA=

Name: org/codehaus/janino/util/ClassFile$IntElementValue.class
SHA-256-Digest: LseOOZJS4lR9u3C//+MJ34ATWJNvdI3x7Ph+GUzUgQE=

Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$Uninitia
lizedVariableInfo.class
SHA-256-Digest: j4/LQrl6dp9sB/HEVIEfwDOgQ4lIuFrfW4hbEZb6lKU=

Name: org/codehaus/janino/util/DeepCopier$11.class
SHA-256-Digest: CZf447NXkhgZqAzpwgC9zUeHJSyUBqqWf1mvj8ZdwqU=

Name: org/codehaus/janino/util/ClassFile$ConstantElementValue.class
SHA-256-Digest: gWJ7du4PfAijCMFra/Eoln5rkFcHillwo3/6lCgc/oA=

Name: org/codehaus/janino/UnitCompiler$17$2.class
SHA-256-Digest:
EddX+ddWvE01SsmTAGzxbBi81basHoSibDw4apxLjCo=

Name: org/codehaus/janino/Visitor$TypeDeclarationVisitor.class
SHA-256-Digest: p262+tyWf6u/fl5+xzU4g2fkAgng6/I1edvqIbhbOOE=

Name: org/codehaus/janino/Java$NullLiteral.class
SHA-256-Digest: hTa5F6/i+MDzgAhlb55+QMT29SxtChoCUwtRjhsLfjA=

Name: org/codehaus/janino/UnitCompiler$26.class
SHA-256-Digest: O9WrrzSwwTrOsMW/nwdHRTMp2RMyRRl+vd/csSV9mR0=

Name: org/codehaus/janino/UnitCompiler$28$1.class
SHA-256-Digest: MlpXz+xkbhKqNDgZD+hDNwXnjn6DokQaGHg/V9rD9Qc=

Name: org/codehaus/janino/UnitCompiler$31.class
SHA-256-Digest: MmwDxsq/gkppzPl+JwMJPC6KFyJ08QFp9MSIB+q1EK4=

Name: org/codehaus/janino/Compiler$1.class
SHA-256-Digest: AllMsUaSCvrtvaxAqmoXF5OHh2wMOnH7n2ZSm13q3Wg=

Name: org/codehaus/janino/UnitCompiler$17.class
SHA-256-Digest: OFH1XGWxVaJOH7x5DBBx2yYtlugNFV52A6O5KmhjmuE=

Name: org/codehaus/janino/util/ClassFile$BooleanElementValue.class
SHA-256-Digest: zgwz5PBV168gCSPbhcqm5G4SuRVp0VDAM9/mZDfFcXk=

Name: org/codehaus/janino/ReflectionIClass$ReflectionIConstructor.class
SHA-256-Digest:
31j1FFU8TXAu1Eyj9x19WKTIq7kOIL0fKSPi8l/Ymdc=

Name: org/codehaus/janino/util/ClassFile$ConstantFieldrefInfo.class
SHA-256-Digest: Z2PEMepAWJlU/QervQKLlBfzrumAtY3T8nBN7i+kjVM=

Name: org/codehaus/janino/Java.class
SHA-256-Digest: BWuUBokVhIEdouY2XIa591HIKv83ANosvpMWgXWvM50=

Name: org/codehaus/janino/ClassFileIClass$1.class
SHA-256-Digest: vm8Ldzweqg2aULHLFtHu0mAkE6Alj16jFSkhnh2hdE8=

Name: org/codehaus/janino/CodeContext$FixUp.class
SHA-256-Digest: 9S06D9THlRFbr/nLYjabnTntDGVHSRCVqnqLmhcJLCw=

Name: org/codehaus/janino/Java$ClassDeclaration.class
SHA-256-Digest: SxGIEFMMeBdgzUZxVndJxRZ2BCCOVkFsLU4UHsUI6VE=

Name: org/codehaus/janino/Java$Locatable.class
SHA-256-Digest: eV10WvgA4V2LFgs6Z5dOdKd8CakNZAhk3a+131pAMuA=

Name: org/codehaus/janino/TokenStreamImpl.class
SHA-256-Digest: tg/SCpyg58XVYijleV0F8NSfl0bbFoAxLz2SMt4G7xA=

Name: org/codehaus/janino/util/ClassFile$Annotation.class
SHA-256-Digest: 5MuVV+haCq/c+jbPgVEB8te3ewBT8wJSyf+Jl66ElIg=

Name:
org/codehaus/janino/Compiler$CompilerIClassLoader.class
SHA-256-Digest: tWRIopEcSZJKCLljQM0mnxsY9SKGEDob0Jhl5t7iANQ=

Name: org/codehaus/janino/Java$Initializer.class
SHA-256-Digest: O4ofPHLRVdRuVayQ+LoWIPA6luPRqI0TxOQa1Wwq1i0=

Name: org/codehaus/janino/Java$AccessModifier.class
SHA-256-Digest: bu95pe/OgGZrYkBWjKKT/PLYJFNzUCJf6IS0t/3njc0=

Name: org/codehaus/janino/Java$Scope.class
SHA-256-Digest: q7MMiS1ghcxhcoIL7BTlufhuuyo6j5LpyZobMdpJkJE=

Name: org/codehaus/janino/Java$ElementValue.class
SHA-256-Digest: G/Eveph4m612ZUGMPWXaSPp2rFrZ9LbaznJUackL1tk=

Name: org/codehaus/janino/Unparser$1.class
SHA-256-Digest: zH3gIGB90LAynJcNbbn2H8tFC0RuzkqB7g2/I0x2eSc=

Name: org/codehaus/janino/Java$Cast.class
SHA-256-Digest: Ts8bxqyiAw599n1YPnLGGHQqZ/2w8vCm7D5bBODFGw8=

Name: org/codehaus/janino/Java$LocalVariableSlot.class
SHA-256-Digest: vLvABAY+oIiB/9xPWRJXq3bEjZx20qttS+smvE1ks8U=

Name: org/codehaus/janino/Java$WhileStatement.class
SHA-256-Digest: XzdShrFwCSx5z8HiKre5rTDBOB7ZJJlzhZoqQriapKs=

Name:
org/codehaus/janino/util/ClassFile$EnumConstValue.class
SHA-256-Digest: 1un25QnZ53i+HLC3Jekr3CLtkcshuTtddVDEEef+A4o=

Name: org/codehaus/janino/UnitCompiler$23.class
SHA-256-Digest: 9nL5Z4jcTtf2iN77bVgSUgyMf2wZV1ilpabABQaiG9E=

Name: org/codehaus/janino/Java$VariableDeclarator.class
SHA-256-Digest: 0JZVuOr8Q+Ez7OUP5hFH8Wp5vnu1atY+4v1dvZjknS4=

Name: org/codehaus/janino/samples/package-info.class
SHA-256-Digest: egnZaOIrPGZaFxh99RqHTyOuOaN1iNecdw1GMf8cogE=

Name: org/codehaus/janino/Java$SwitchStatement$SwitchBlockStatementGroup
.class
SHA-256-Digest: rAh4sxe+XtzXz3B5F6VS+lBMmFbOvc2sHDKRz4v+OpQ=

Name: org/codehaus/janino/Java$ContinuableStatement.class
SHA-256-Digest: fpOoXRjhkNQHK6ZAJDnlusWVXXqlcu+D60KgrCFq90g=

Name: org/codehaus/janino/Compiler$3.class
SHA-256-Digest: i+MDCb+d6pjScxgQZNuG9FOa9vXauSGPH2XDRRORdJ0=

Name: org/codehaus/janino/UnitCompiler$5$1.class
SHA-256-Digest: gU2k7Y04Rdmor7CCe6GHkTWCYAAQBP5unZHKwcyYfJw=

Name: org/codehaus/janino/util/ClassFile$1.class
SHA-256-Digest:
eOkADwJTNaglO/VK2DxMpg9qxw0TcgLjyCvunmUl42Q=

Name: org/codehaus/janino/Visitor$ElementValueVisitor.class
SHA-256-Digest: rZ4JR0hhTiKRcx1EOHQBj6jpLyqZvZiHT/xrnZjl7Kc=

Name: org/codehaus/janino/SimpleCompiler$1.class
SHA-256-Digest: 7BE7gadDutC9BkL+dagDW2EdPdOu1W3I2xJyGUco6KU=

Name: org/codehaus/janino/ScriptEvaluator.class
SHA-256-Digest: q27mCYh49FMMOEvWzuJnirbOqupJCMl8Tp+d2z1Sdlk=

Name: org/codehaus/janino/Java$Block.class
SHA-256-Digest: lZnM6BYodTTeHui6msLQ+jY8XEJBwVmi4ZlmGOQvJlc=

Name: org/codehaus/janino/Java$PackageDeclaration.class
SHA-256-Digest: 9zr/UG8z74I8Mdr1xoQlEQ+320w7hMrdpNpzKVQd2yA=

Name: org/codehaus/janino/ClassLoaderIClassLoader.class
SHA-256-Digest: X6SA2gIEs0oGsjsrRBGi0EvwEBzLsPXgDqnlNPdpjic=

Name: org/codehaus/janino/Java$PackageMemberTypeDeclaration.class
SHA-256-Digest: PZunTg5AgRPDLSaGLFs6V6IZOAJoAmaXHTRy49NLm6M=

Name: org/codehaus/janino/util/DeepCopier$7.class
SHA-256-Digest: AvkgYu7fP/+dsJpXSDT3G0ijrIjl8OtCSlYCtRh/zE0=

Name:
org/codehaus/janino/IClassLoader$1$1.class
SHA-256-Digest: FDTvEoXNv1+o3ODB+xsmavFxIX0CoCi/9lRh7X5IfSQ=

Name: org/codehaus/janino/util/ClassFile$ConstantElementValue$Visitor.cl
ass
SHA-256-Digest: Je41gASiHpPr+dEfVCd6DLGbJH+OHff4m1xIFS7kUzE=

Name: org/codehaus/janino/util/signature/SignatureParser$ThrowsSignature
.class
SHA-256-Digest: YQFUcoW3YTLAPMpFIj7wU6bd9FllGxFAiD+4AMtDnQc=

Name: org/codehaus/janino/UnitCompiler$25.class

SHA-256-Digest: qqpc3L6isD3PnXPptggf6beDQ8jwNnnw3VIKbUpeRZM=

Name: org/codehaus/janino/Java$MethodReference.class
SHA-256-Digest: PrFGPoa80oWidJ8+DsB+BHgNEUnZiber4NxHuzkg60U=

Name: org/codehaus/janino/util/DeepCopier$10.class
SHA-256-Digest: UCiTooPD8Fml+rYIo19KdyXSigPhBRTgJaU5bBT8ozo=

Name: org/codehaus/janino/Java$LambdaBody.class
SHA-256-Digest: lY7hiUrB+q4Mm8ATTQrH4tiS5zinYUwVsJB66aTJ05g=

Name: org/codehaus/janino/Unparser$9.class
SHA-256-Digest: cupKvwN8y9X7FGvtZyeu7HGxiOyLQOHVrlXvXTZ+BSk=

Name: org/codehaus/janino/UnitCompiler$28$2.class
SHA-256-Digest:
Ut2DFMhrxn4uEPeu6882UkBqb0o4bGxBm4CyAiJGEkc=

Name: org/codehaus/janino/Java$ExpressionStatement.class
SHA-256-Digest: 1X1KR8szGENzMsUP3Dd1k9XlUjM6SbOF0vzO0B+vclo=

Name: org/codehaus/janino/Java$ParameterAccess.class
SHA-256-Digest: k2SYpNYiSy1tPm7FAMVlWARUJcym4syc6Zm/jnqjgHM=

Name: org/codehaus/janino/UnitCompiler$38.class
SHA-256-Digest: ZWv7fqdahnh47UVyeKzL0k49bPK8bEphy5NdWLmfwDo=

Name: org/codehaus/janino/CodeContext$OffsetBranch.class
SHA-256-Digest: 4cSUzheuZ40ZO95aWbQGApWX/O05qi2lO4BoHh2sx38=

Name: org/codehaus/janino/util/DeepCopier$5.class
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Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$Verifica
tionTypeInfo.class
SHA-256-Digest: +oUdLZl1chembBotCpG31/3+/xgtlguniBHDU12zXZo=

Name: org/codehaus/janino/UnitCompiler$39$3.class
SHA-256-Digest: QGm2j6nCPPBpG0LI5ftX9dkG8mr6Q8ljx0DsH+nEM1Y=

Name: org/codehaus/janino/Unparser$3.class
SHA-256-Digest: +5H9Ffvk7x5LuIZpCCxp9GsAm+ZKWYiK2pX1a37FGBI=

Name:
org/codehaus/janino/Java$ArrayAccessExpression.class
SHA-256-Digest: D/Gp48KeAEnF9ZhiXytWdsn38OTpTOgx0bCNxMUdBBY=

Name: org/codehaus/janino/ReflectionIClass$3.class

SHA-256-Digest: jBu7jNfj54jhc2QQ+88S4ZBIHAMoGr7ZFI8lwu9cKR8=

Name: org/codehaus/janino/util/ClassFile$ConstantMethodTypeInfo.class
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Name: org/codehaus/janino/Unparser$18.class
SHA-256-Digest: OApniccT6/DqWb5RtgBFbGN1/vgEkFumufg9nF3+uPo=

Name: org/codehaus/janino/util/signature/SignatureParser$FormalTypeParam
eter.class
SHA-256-Digest: 0my8rbbAhtctWC0sCYJQOlaPyAQxqTx9WuYqOTBTyvA=

Name: org/codehaus/janino/Unparser$12.class
SHA-256-Digest: 3qe4+WvKHToARSnn+LMY9Mu8EGKDksi1+AIpFiA429I=

Name: org/codehaus/janino/util/charstream/UnexpectedCharacterException.c
lass
SHA-256-Digest: f0w+Np8j8Mr4iOEouVagXbXDQB/JYVgUH1RJ6mnsOUM=

Name: org/codehaus/janino/Java$NormalAnnotation.class
SHA-256-Digest: XXB9xtZraVbdhBa/dWp4VoEYVTvSFGH5z86L+2EplO4=

Name: org/codehaus/janino/Java$ReturnStatement.class
SHA-256-Digest:
ptP1TJxnZvBzgI11Nj3mwhTKs5GvvEx8VLZu67FfgN4=

Name: org/codehaus/janino/util/AbstractTraverser$1.class
SHA-256-Digest: p+KDthLt5+1kTKLD8Sm8Y4MWDs4Bu+pYM05a+iEu43Y=

Name: org/codehaus/janino/Parser.class
SHA-256-Digest: 5AgkcUZtAdP+DbjkhxW7oekqVLPS7MamWbSe3JWnxZU=

Name: org/codehaus/janino/Java$SynchronizedStatement.class
SHA-256-Digest: RlcMUOUAn6Kcb6lE6j0i4EpsRc4Wrh0oO+D20Mk2cRw=

Name: org/codehaus/janino/Access.class
SHA-256-Digest: qvNgbo9lD/q25Ku9acRZsAsyjfy9uj/qrB57WxGQMx4=

Name: org/codehaus/janino/Unparser$4.class
SHA-256-Digest: XNr4fP2sQYZ+hA5DbIoPZqaXJPVZbsTGzbxnQ4Ap0fo=

Name: org/codehaus/janino/UnitCompiler$33.class
SHA-256-Digest: on691Z9oYp8HEPMOJkrpyCG8vxoH46Hr4d4+MLRXpgw=

Name: org/codehaus/janino/UnitCompiler$14$1.class
SHA-256-Digest: iBgcGQZ7hIx6He6VbxtdZFzQDBafUe38tO132pssaGI=

Name: org/codehaus/janino/util/ClassFile$ConstantNameAndTypeInfo.class

SHA-256-Digest: Hkm5aPHr+4QVlnyBmiig2J/jBsqDKzidSf46qSTXtKs=

Name:
org/codehaus/janino/util/ClassFile$ClassElementValue.class
SHA-256-Digest: VYB7RRvW1owTkb5AfNWQmJOX8FgisUoX6N8dLTv3bVU=

Name: org/codehaus/janino/util/DeepCopier$4.class
SHA-256-Digest: yKu1ya3uxJ39ikJ/sW91oI5BZdGHkv/8Xeo1SJzM5w0=

Name: org/codehaus/janino/Java$PackageMemberClassDeclaration.class
SHA-256-Digest: 83LyzvQNdeZHqrOgGlvCB/WO45qr/f+IV7lp6lhGhwA=

Name: org/codehaus/janino/Unparser$17.class
SHA-256-Digest: uyAlHOguMWnwYogJOLAcVDU1WwmFYsYvq2GabFCqcGc=

Name: org/codehaus/janino/util/ClassFile$CodeAttribute.class
SHA-256-Digest: X/9moiAZ+h4GV4VRldRq97PsvZKESusdBJbssBammrg=

Name: org/codehaus/janino/Compiler.class
SHA-256-Digest: cKnI8W1jSXjt5IcaLkhvWO8j0fRNAdk05YBBT8OC900=

Name: org/codehaus/janino/Java$Statement.class
SHA-256-Digest: ijsrs9eAgEEpkoYgJVlZmOOONRoYhPzI0tlv+4RoIMA=

Name: org/codehaus/janino/Java$NewAnonymousClassInstance.class
SHA-256-Digest: eK3v5i5lVx6HydDqgIon8l+nFwQZfM/9flu56dXXdzs=

Name: org/codehaus/janino/util/AutoIndentWriter.class
SHA-256-Digest:
ymfI+HtKCAuUs8Eh5ZPsbvTVxEVmvfVlr0gjLbwbIcU=

Name: org/codehaus/janino/util/signature/SignatureParser$TypeArgument$Mo
de.class
SHA-256-Digest: WS8bRh4xYzzaquUwvSgq6oENL6OJfD2WSa6eKtZiqTw=

Name: org/codehaus/janino/CodeContext.class
SHA-256-Digest: N8lw3rBN6xOUt2h8LfiqrmDQ0bjV4SuA7JzSp7dwlw0=

Name: org/codehaus/janino/Java$NamedTypeDeclaration.class
SHA-256-Digest: jpYarJUsNJMm0lgeBO8ecf5orvWepdihx510/TyQRK4=

Name: org/codehaus/janino/Java$MemberAnnotationTypeDeclaration.class
SHA-256-Digest: VJy/g1HhET0zcFBE45PQ/PD9uQfaRn4zlCA+wIV30nA=

Name: org/codehaus/janino/Java$AlternateConstructorInvocation.class
SHA-256-Digest: W6+G/BjVb1ai111r0/z4/uDTPCo8t5bI6yU4xUB4vek=

Name: org/codehaus/janino/UnitCompiler$39.class

SHA-256-Digest: gj9clXVloeK8Sedd51j3IbcQV+9q1pOt9QK0BUXpUsE=

Name: org/codehaus/janino/IClassLoader$1.class
SHA-256-Digest: or4jnCaL8z8l8xUCUldBywIocF6Kh0GZ9nY8eEY/tu8=

Name: org/codehaus/janino/Java$TryStatement$Resource.class
SHA-256-Digest: t0JrNyL5GxIQENg9QW3tNKsULKPsZRb4hoo3japkQFU=

Name:
org/codehaus/janino/Parser$ClassDeclarationContext.class
SHA-256-Digest: QHkFxYr4PkxQEFCEhD+qyldc+Kg3jb29hiE3bARkqqI=

Name: org/codehaus/janino/Visitor$TypeBodyDeclarationVisitor.class
SHA-256-Digest: xbx7sGc9ymbYC0h0CfPxwJK1ClTpTkRDXwNUWq0Q5Lc=

Name: org/codehaus/janino/UnitCompiler$32.class
SHA-256-Digest: 8bCGfmCtygRLJxRlcJ4GuejuIEcsgTIEPh1420JaXpw=

Name: org/codehaus/janino/util/ClassFile$ConstantInvokeDynamicInfo.class
SHA-256-Digest: pqY3S8iRZdX9T4wFw7F/dAkvwWExZbGbjM9YdGWH17s=

Name: org/codehaus/janino/util/ClassFile$ConstantInterfaceMethodrefInfo.
class
SHA-256-Digest: rsbIwabF9DBGYqZD4rh8fgBV84L8zD5/k/ITNkwHFts=

Name: org/codehaus/janino/util/ClassFile$ConstantStringInfo.class
SHA-256-Digest: Shk85ao3rZGkVHV9nQPbMoHHZtuZ6iIQ2F2pHAgKjcY=

Name: org/codehaus/janino/util/ClassFile$LineNumberTableAttribute.class
SHA-256-Digest: 7iws4y5PFAxnmhLiDsETe/DzLEEYDZAOgUz3BYDFIKI=

Name: org/codehaus/janino/ReflectionIClass.class
SHA-256-Digest: 2V7QN2I5GVF/HC+Z7Ua+BxpedSPO8XVlbu9l87+bvSs=

Name:
org/codehaus/janino/UnitCompiler$44.class
SHA-256-Digest: eOQh9+jnw7ch9wEKNTsz9o7/0eP2SUigXCtDAMwyYcE=

Name: org/codehaus/janino/util/signature/SignatureParser$FieldTypeSignat
ure.class
SHA-256-Digest: N2+NuWFHZ1RZx9496fAF1ZJGvEzPD0HDUQakUsNdl7M=

Name: org/codehaus/janino/UnitCompiler$39$2.class
SHA-256-Digest: v0C4cp8IgEULwkoz0DWXWtQqavmJ1AU5JJB9AlQ8i3g=

Name: org/codehaus/janino/CodeContext$LineNumberOffset.class
SHA-256-Digest: O3mJ1vFKOtPfeHLsUURK+RmK3MwsizsYZdUvNAqRZuQ=

Name: org/codehaus/janino/Visitor$ModifierVisitor.class
SHA-256-Digest: 9pdPTYi7LL4bTvZ760sgSen3liSLffyzNRXWMVzlcu8=

Name: org/codehaus/janino/util/DeepCopier$3.class
SHA-256-Digest: Sq9J24/wotW8jCZm1evlmXOsPqLy6zXBKgwZe7CO/b8=

Name: org/codehaus/janino/Visitor$FunctionDeclaratorVisitor.class
SHA-256-Digest: SP+ldU26mvhPV+u3S3munJ3ujy3Ytu39H9iDy2bLrkI=

Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$1.class
SHA-256-Digest: T8YPT6zdg0vlRWJucMcGZiOJgm1eAaWq9gNViDBv10U=

Name:
org/codehaus/janino/Java$ParenthesizedExpression.class
SHA-256-Digest: BGBQABHEibotPB3LvvRUSbbkwGIUKkfN/4Gb/H3OXYs=

Name: org/codehaus/janino/CodeContext$1.class
SHA-256-Digest: qaAFzSTCogLf8JdpXvIazHF3MHqh2Lgp55hDg1qnvAo=

Name: org/codehaus/janino/Unparser$11.class
SHA-256-Digest: ZHsi4ATRMDrXJmanhz9EhofYht7ZRIrVDAzguwbpt4Y=

Name: org/codehaus/janino/Java$TypeArgument.class
SHA-256-Digest: H/vDjlhfHyEod0kFkCG9GHKt5IoXwHMv/sQuwtMAAEM=

Name: org/codehaus/janino/UnicodeUnescapeReader.class
SHA-256-Digest: 9hTrTbAbkflug8d3v+Wm7qIueEQRbTp3D+9P6Bjna+g=

Name: org/codehaus/janino/Java$AbstractCompilationUnit$SingleTypeImportD
eclaration.class
SHA-256-Digest: l3yDE+hL5cfFj/pjjJdrUUsPnn6jXjpeUJzvfXDwayg=

Name: org/codehaus/janino/UnitCompiler$34.class
SHA-256-Digest: C8uMLkxHJDgGQnQkkqtlKVVsyxRfii8j+6sf87qaht4=

Name: org/codehaus/janino/Java$ClassLiteral.class
SHA-256-Digest: F4GlvUSaWMRUN8Se1YyGqBgJINi2L5sENlQuiU8mgcs=

Name: org/codehaus/janino/Java$DocCommentable.class
SHA-256-Digest:
guresSKq91gbKI6MgTs24rNB10lqkTsnBkKJzO2Lwm4=

Name: org/codehaus/janino/util/ClassFile$FloatElementValue.class
SHA-256-Digest: igRR0tgDzu4rAAm2LNZpn4N5+rwWHM7SwEievgSCKCQ=

Name: org/codehaus/janino/Java$PackageMemberInterfaceDeclaration.class
SHA-256-Digest: bco4+JDNeCqGZ/olBi7JzP70nT0YrBYQSGUiv/wFDTQ=

Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$StackMap
Frame.class
SHA-256-Digest: qsxC23UW9eAMGTiHPBbgUQ5qyqJx+UrrW47GZvGJmtE=

Name: org/codehaus/janino/Java$AbstractCompilationUnit.class
SHA-256-Digest: qM5q3EOODLl/kCgaS1o4VRLlQyTrj3JWlsyPaXGVnR0=

Name: org/codehaus/janino/IClass$IMethod.class
SHA-256-Digest: yqazWVlLBHVZBKmJP+0TtWS1qpu1LETgun55QS3nyeg=

Name: org/codehaus/janino/Parser$InterfaceDeclarationContext.class
SHA-256-Digest: 0+nZUT7HdKruXB6/LvhnQXmPDB08kKoHiqpncaiHK+c=

Name: org/codehaus/janino/Token.class
SHA-256-Digest: xrBhQQFC/9i730OdnaN1iMSHud3kl/NmFN9AN85kNUM=

Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$4.class
SHA-256-Digest:
lqKNlVSv3By/EGoxZxaMoXfWocgJ23cIjDj0amCYFmA=

Name: org/codehaus/janino/Unparser$7.class
SHA-256-Digest: l72gCYJ6a4YO5ZTGMK1ZKBuk8rx8Te+9t9WK/L4jzN8=

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SHA-256-Digest: VdeSU6BXKsbHQMCwgyUy2/Tbvmmfx8T09sEl+DnF6Qw=

Name: org/codehaus/janino/Visitor$TypeArgumentVisitor.class
SHA-256-Digest: PyBx8wgsEQ4gkF6LtQWinTNaXnrZNegbPe98gd7BKpo=

Name: org/codehaus/janino/Java$ModularCompilationUnit.class
SHA-256-Digest: asX6nmSlbOz0qRVkXVUkcDKdqynLTW1bT/qNwrJ9DxM=

Name: org/codehaus/janino/util/ClassFile$ExceptionsAttribute.class
SHA-256-Digest: rpXtbXBLg4SjuK7OLth3l6eGFh5R+7jgwtOjqgcOM1I=

Name: org/codehaus/janino/util/ClassFile$ByteElementValue.class
SHA-256-Digest: YXbCTCBjM32Y0gBf20m0FP4j2dEYj6VsuTdwwf+cIrg=

Name: org/codehaus/janino/package-info.class
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Name: org/codehaus/janino/TokenStream.class
SHA-256-Digest: +xgV7207fiBSa/53A5naULgsuxsiBPvG+0fbwydKoWI=

Name:
org/codehaus/janino/util/Traverser.class
SHA-256-Digest: Vxpy4gyEFZSC5+4hWE9YdeT9dKIX30bN9CD9JFK3tlo=

Name: org/codehaus/janino/UnitCompiler$29.class
SHA-256-Digest: OHjX4Fn/QvuFDnvyhBBKeEcco0FP4ULg/A0dK6Kwxsw=

Name: org/codehaus/janino/util/AbstractTraverser$7$2.class
SHA-256-Digest: 9vIxiIp5knwP2UQlqV40nTglsBKNubCOXdmkJ/26T3w=

Name: org/codehaus/janino/Java$ForStatement.class
SHA-256-Digest: vsMSfzGmLrWN9KHUcItOkjga4BfwHFkRBsbhhhDYp64=

Name: org/codehaus/janino/ClassFileIClass.class
SHA-256-Digest: Ilud0boS98fH7nhcOKYE14t7t7Oz7WXdNKQmcch/Vx4=

Name: org/codehaus/janino/util/ClassFile$ClassFileException.class
SHA-256-Digest: iGAuGSmL8IvNb8r+L60K8O0lYEvNEPkfJf4mZmdE9ZA=

Name: org/codehaus/janino/UnitCompiler$Compilable.class
SHA-256-Digest: LCkAPGwvnUJIsh4cuwmJ54xis/NJaqwzfdiR7ZcWlCk=

Name: org/codehaus/janino/Java$LocalVariable.class
SHA-256-Digest: zY9XK+PmtFvAAKT8Kv/Z+VAq2/kqgJ2O9YsIr0zxxOc=

Name: org/codehaus/janino/Unparser$13.class
SHA-256-Digest: gCpVUBqD2ZMoq69Z30zWWBvnzTQeF6SQ1+TYM8Jw5Kw=

Name:
org/codehaus/janino/Java$LocalClassDeclaration.class
SHA-256-Digest: uu3qjniESATYlNQjrAQUoN+cpogE915eP5dY5FZBeAE=

Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$3.class
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Name: org/codehaus/janino/Java$AnnotationTypeDeclaration.class
SHA-256-Digest: YhS9MwfjHnXyjaaUIUswjfmxV2QLAf4lo4BhWoS26hg=

Name: org/codehaus/janino/UnitCompiler$40.class
SHA-256-Digest: g93dUSNsJV5c1Nj8z8PYUaDOfZD5hqO/tVmFXfrASHA=

Name: org/codehaus/janino/ReflectionIClass$2.class
SHA-256-Digest: KkeWxpZncsllrGHcBiPLI/1TrAAGsuNwzKcyAEM6Yio=

Name: org/codehaus/janino/util/DeepCopier$1.class
SHA-256-Digest: +hbKJp3hcmdTYdgji/7iGhXwXgS8/YTkMNhGMnzlPAI=

Name: org/codehaus/janino/Java$NewClassInstance.class
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Name: org/codehaus/janino/util/ClassFile$ConstantMethodHandleInfo.class
SHA-256-Digest: +iVZBVpIFsqvMlaO7Wpb5iikx9qUvLkePJzTMRhYqNE=

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org/codehaus/janino/util/signature/package-info.class
SHA-256-Digest: Xsj685G34t8qyE40frAhRxV+/H2YP6Qhzzz4yCw4Yfc=

Name: org/codehaus/janino/Java$FieldDeclarationOrInitializer.class
SHA-256-Digest: 5Evb7VvZHNmXUlNrrFNrtFCZm6rmO4OU/q9HNT3xsLw=

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SHA-256-Digest: OQNgihCuaTb5TBDVi91khEzl5f1Ebqc6aTJxVNE5vVE=

Name: org/codehaus/janino/UnitCompiler$39$1.class
SHA-256-Digest: 8Q8NRh/OIA8mJIOk0VRvHPi6epTogUQQ2fE38Q+f0uI=

Name: org/codehaus/janino/Java$ArrayInitializer.class
SHA-256-Digest: vzMD/LEmqHgDpVPnfNZ6TKfxLS8mq459Z42frA+pBho=

Name: org/codehaus/janino/Java$Invocation.class
SHA-256-Digest: tI2qEzPGs3VYltqnvJl7KUwgzWK+Eaon/+dImMeaKbA=

Name: org/codehaus/janino/Unparser$14.class
SHA-256-Digest: BOFtqN4Bu5PJ28qB1XLzsoXn/Vx3EFN6Q/Po8Vfm1zI=

Name: org/codehaus/janino/util/ClassFile$LocalVariableTableAttribute.cla
ss
SHA-256-Digest: Ni/4X0HaxVreeh8/hI1B8JUUdiONHvATtv2yuvO8tME=

Name: org/codehaus/janino/util/ClassFile$CharElementValue.class
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26X6p/2zDPpTu7+P1k4ALZTa6ihGwkWc910x2Yuf25Q=

Name: org/codehaus/janino/IClass$PrimitiveIClass.class
SHA-256-Digest: Xe62oauLQu+SU2IhnK8+P01jC3cUmu99oioNGwAZDjk=

Name: org/codehaus/janino/util/AbstractTraverser$7$1.class
SHA-256-Digest: HMqlF23YeSrwVoiKzS6yy27fpPCYcattEvjFEbeVzrA=

Name: org/codehaus/janino/Java$FormalLambdaParameters.class
SHA-256-Digest: O1jJisKdYBjNd07bD3lBZeVTX2r4EW9lD42JLvvZa7w=

Name: org/codehaus/janino/Java$ForEachStatement.class
SHA-256-Digest: 9jrlHZ1rnU+/YVsgAmI3wJl1D59UpgbEVoHC/BKwP4w=

Name: org/codehaus/janino/Java$CatchClause.class
SHA-256-Digest: los3fzcSDecKf9GQFEs37/pmjpASdj1xbG9Zfm5ofYs=

Name: org/codehaus/janino/UnitCompiler$36.class
SHA-256-Digest: QFETa16TDjczF/pTihfcAmN6DIoY8CHk2VwTsXUbgww=

Name: org/codehaus/janino/ITypeVariable.class
SHA-256-Digest: A9vhs87BgJnukJQkhTp3lCwwGj62R6Oh/7va0sl/O8Y=

Name: org/codehaus/janino/Java$CharacterLiteral.class
SHA-256-Digest: QmmXotLYLx00GgN7AAsGfwvOJycuiTtm8MXMmEc6c24=

Name:
org/codehaus/janino/util/ClassFile$DoubleElementValue.class
SHA-256-Digest: lGGYYU2chtAkWO5ruDVn6z3fxeksy1I0F8Z+L4zgD2c=

Name: org/codehaus/janino/Java$LabeledStatement.class
SHA-256-Digest: raDDo8co0U6GprI3T+pM2jlLACOsHcogUDA23vjw60U=

Name: org/codehaus/janino/UnitCompiler$41.class
SHA-256-Digest: jaSsgc280fn0e65PB3WsFezQfkq5XzbM0zeijNxUzRc=

Name: org/codehaus/janino/Java$MemberInterfaceDeclaration.class
SHA-256-Digest: VfDa7SUjOtiZWYYjT9iBePYk4JDzzEvCPNudA79NAqI=

Name: org/codehaus/janino/util/ClassFile$CodeAttribute$ExceptionTableEnt
ry.class
SHA-256-Digest: 73SexmP6HXhyIl6bALpOELixx2GortrUqII9/2TA2Xs=

Name: org/codehaus/janino/Unparser$8.class
SHA-256-Digest: Fn6xISp2Ee0LAFLgRjNwneifXdEaMIrNsTCmRKG4+SE=

Name: org/codehaus/janino/Java$ExpressionLambdaBody.class
SHA-256-Digest: FMBWscxQnqYzYYk4BmNHfl6cqAkKOfwPCpOedqnOIcM=

Name: org/codehaus/janino/UnitCompiler$15$1.class
SHA-256-Digest: cUvrxw7t7TxTD72CdEA2dTsEbUNotQajlaz56rlAYlE=

Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$2.class
SHA-256-Digest:
KtM9eRP3+RuXGPivGMtWC8oeKMZiu4ZDb1rnCrkcBa0=

Name: org/codehaus/janino/ReflectionIClass$1.class
SHA-256-Digest: uVXV+NCCns88rZPfLP2XL3SQvUr/5kh0P06yIVjiyCA=

Found in path(s):
* /opt/cola/permits/2308653658_1736176665.3161807/0/janino-3-1-12-3-jar/META-INF/MANIFEST.MF

1.5891 spring-cloud-commons 4.1.4

1.5891.1 Available under license :

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```
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```

Found in path(s):
* /opt/cola/permits/2308654108_1736176546.740057/0/spring-cloud-commons-4-1-4-sources-2-jar/org/springframework/cloud/commons/security/AccessTokenContextRelay.java

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```

Found in path(s):
* /opt/cola/permits/2308654108_1736176546.740057/0/spring-cloud-commons-4-1-4-sources-2-jar/org/springframework/cloud/client/discovery/health/DiscoveryHealthIndicator.java
* /opt/cola/permits/2308654108_1736176546.740057/0/spring-cloud-commons-4-1-4-sources-2-jar/org/springframework/cloud/client/loadbalancer/LoadBalancedRetryPolicy.java
* /opt/cola/permits/2308654108_1736176546.740057/0/spring-cloud-commons-4-1-4-sources-2-jar/org/springframework/cloud/client/loadbalancer/reactive/LoadBalancerBeanPostProcessorAutoConfiguration.java

* /opt/cola/permits/2308654108_1736176546.740057/0/spring-cloud-commons-4-1-4-sources-2-jar/org/springframework/cloud/client/discovery/health/reactive/ReactiveDiscoveryHealthIndicator.java
* /opt/cola/permits/2308654108_1736176546.740057/0/spring-cloud-commons-4-1-4-sources-2-jar/org/springframework/cloud/client/hypermedia/RemoteResourceRefresher.java
* /opt/cola/permits/2308654108_1736176546.740057/0/spring-cloud-commons-4-1-4-sources-2-jar/org/springframework/cloud/client/loadbalancer/reactive/ReactiveLoadBalancer.java
* /opt/cola/permits/2308654108_1736176546.740057/0/spring-cloud-commons-4-1-4-sources-2-jar/org/springframework/cloud/configuration/CompositeCompatibilityVerifier.java
* /opt/cola/permits/2308654108_1736176546.740057/0/spring-cloud-commons-4-1-4-sources-2-jar/org/springframework/cloud/client/serviceregistry/AutoServiceRegistrationConfiguration.java
* /opt/cola/permits/2308654108_1736176546.740057/0/spring-cloud-commons-4-1-4-sources-2-jar/org/springframework/cloud/client/discovery/simple/SimpleDiscoveryClient.java
* /opt/cola/permits/2308654108_1736176546.740057/0/spring-cloud-commons-4-1-4-sources-2-jar/org/springframework/cloud/commons/util/IdUtils.java
* /opt/cola/permits/2308654108_1736176546.740057/0/spring-cloud-commons-4-1-4-sources-2-jar/org/springframework/cloud/client/loadbalancer/LoadBalancerLifecycle.java
* /opt/cola/permits/2308654108_1736176546.740057/0/spring-cloud-commons-4-1-4-sources-2-jar/org/springframework/cloud/client/loadbalancer/ResponseData.java
* /opt/cola/permits/2308654108_1736176546.740057/0/spring-cloud-commons-4-1-4-sources-2-jar/org/springframework/cloud/client/loadbalancer/CompletionContext.java
* /opt/cola/permits/2308654108_1736176546.740057/0/spring-cloud-commons-4-1-4-sources-2-jar/org/springframework/cloud/client/loadbalancer/RequestDataContext.java
* /opt/cola/permits/2308654108_1736176546.740057/0/spring-cloud-commons-4-1-4-sources-2-jar/org/springframework/cloud/client/discovery/simple/SimpleDiscoveryProperties.java
* /opt/cola/permits/2308654108_1736176546.740057/0/spring-cloud-commons-4-1-4-sources-2-jar/org/springframework/cloud/configuration/CompatibilityPredicate.java
* /opt/cola/permits/2308654108_1736176546.740057/0/spring-cloud-commons-4-1-4-sources-2-jar/org/springframework/cloud/client/discovery/composite/CompositeDiscoveryClientAutoConfiguration.java
* /opt/cola/permits/2308654108_1736176546.740057/0/spring-cloud-commons-4-1-4-sources-2-jar/org/springframework/cloud/client/loadbalancer/ServiceRequestWrapper.java
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* /opt/cola/permits/2308654108_1736176546.740057/0/spring-cloud-commons-4-1-4-sources-2-jar/org/springframework/cloud/client/loadbalancer/LoadBalancerUriTools.java
* /opt/cola/permits/2308654108_1736176546.740057/0/spring-cloud-commons-4-1-4-sources-2-jar/org/springframework/cloud/client/CommonsClientAutoConfiguration.java
* /opt/cola/permits/2308654108_1736176546.740057/0/spring-cloud-commons-4-1-4-sources-2-jar/org/springframework/cloud/configuration/VerificationResult.java
* /opt/cola/permits/2308654108_1736176546.740057/0/spring-cloud-commons-4-1-4-sources-2-jar/org/springframework/cloud/client/DefaultServiceInstance.java
* /opt/cola/permits/2308654108_1736176546.740057/0/spring-cloud-commons-4-1-4-sources-2-jar/org/springframework/cloud/commons/util/InetUtils.java
* /opt/cola/permits/2308654108_1736176546.740057/0/spring-cloud-commons-4-1-4-sources-2-jar/org/springframework/cloud/client/discovery/composite/reactive/ReactiveCompositeDiscoveryClient.java
* /opt/cola/permits/2308654108_1736176546.740057/0/spring-cloud-commons-4-1-4-sources-2-

jar/org/springframework/cloud/configuration/CompatibilityNotMetException.java
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/opt/cola/permits/2308654108_1736176546.740057/0/spring-cloud-commons-4-1-4-sources-2-
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* /opt/cola/permits/2308654108_1736176546.740057/0/spring-cloud-commons-4-1-4-sources-2-
jar/org/springframework/cloud/client/loadbalancer/reactive/RetryableExchangeFilterFunctionLoadBalancerRetryPol
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* /opt/cola/permits/2308654108_1736176546.740057/0/spring-cloud-commons-4-1-4-sources-2-
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* /opt/cola/permits/2308654108_1736176546.740057/0/spring-cloud-commons-4-1-4-sources-2-
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* /opt/cola/permits/2308654108_1736176546.740057/0/spring-cloud-commons-4-1-4-sources-2-
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jar/org/springframework/cloud/client/loadbalancer/reactive/ReactorLoadBalancerClientAutoConfiguration.java
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* /opt/cola/permits/2308654108_1736176546.740057/0/spring-cloud-commons-4-1-4-sources-2-
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* /opt/cola/permits/2308654108_1736176546.740057/0/spring-cloud-commons-4-1-4-sources-2-
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* /opt/cola/permits/2308654108_1736176546.740057/0/spring-cloud-commons-4-1-4-sources-2-
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* /opt/cola/permits/2308654108_1736176546.740057/0/spring-cloud-commons-4-1-4-sources-2-
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* /opt/cola/permits/2308654108_1736176546.740057/0/spring-cloud-commons-4-1-4-sources-2-
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* /opt/cola/permits/2308654108_1736176546.740057/0/spring-cloud-commons-4-1-4-sources-2-
jar/org/springframework/cloud/configuration/CompatibilityVerifierProperties.java
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* /opt/cola/permits/2308654108_1736176546.740057/0/spring-cloud-commons-4-1-4-sources-2-jar/org/springframework/cloud/client/circuitbreaker/observation/ObservedCircuitBreaker.java
* /opt/cola/permits/2308654108_1736176546.740057/0/spring-cloud-commons-4-1-4-sources-2-jar/org/springframework/cloud/client/circuitbreaker/observation/ObservedSupplier.java
* /opt/cola/permits/2308654108_1736176546.740057/0/spring-cloud-commons-4-1-4-sources-2-jar/org/springframework/cloud/client/circuitbreaker/observation/CircuitBreakerObservationContext.java
* /opt/cola/permits/2308654108_1736176546.740057/0/spring-cloud-commons-4-1-4-sources-2-jar/org/springframework/cloud/client/circuitbreaker/observation/CircuitBreakerObservationConvention.java
* /opt/cola/permits/2308654108_1736176546.740057/0/spring-cloud-commons-4-1-4-sources-2-jar/org/springframework/cloud/client/circuitbreaker/observation/ObservedFunction.java

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* /opt/cola/permits/2308654108_1736176546.740057/0/spring-cloud-commons-4-1-4-sources-2-jar/org/springframework/cloud/client/circuitbreaker/ReactiveCircuitBreakerFactory.java
* /opt/cola/permits/2308654108_1736176546.740057/0/spring-cloud-commons-4-1-4-sources-2-jar/org/springframework/cloud/client/circuitbreaker/AbstractCircuitBreakerFactory.java
* /opt/cola/permits/2308654108_1736176546.740057/0/spring-cloud-commons-4-1-4-sources-2-jar/org/springframework/cloud/client/circuitbreaker/ConfigBuilder.java
* /opt/cola/permits/2308654108_1736176546.740057/0/spring-cloud-commons-4-1-4-sources-2-jar/org/springframework/cloud/client/circuitbreaker/Customizer.java
* /opt/cola/permits/2308654108_1736176546.740057/0/spring-cloud-commons-4-1-4-sources-2-jar/org/springframework/cloud/client/circuitbreaker/ReactiveCircuitBreaker.java
* /opt/cola/permits/2308654108_1736176546.740057/0/spring-cloud-commons-4-1-4-sources-2-jar/org/springframework/cloud/client/circuitbreaker/CircuitBreaker.java
* /opt/cola/permits/2308654108_1736176546.740057/0/spring-cloud-commons-4-1-4-sources-2-jar/org/springframework/cloud/client/circuitbreaker/CircuitBreakerFactory.java

1.5892 cryptacular 1.2.5

1.5893 jasypt 1.9.2

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fields:
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* /opt/cola/permits/2308688556_1736179267.1377916/0/netty-tcnative-classes-2-0-61-final-sources-4-jar/io/netty/internal/tcnative/CertificateCallback.java
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* /opt/cola/permits/2308688556_1736179267.1377916/0/netty-tcnative-classes-2-0-61-final-sources-4-jar/io/netty/internal/tcnative/AsyncSSLPrivateKeyMethod.java
* /opt/cola/permits/2308688556_1736179267.1377916/0/netty-tcnative-classes-2-0-61-final-sources-4-jar/io/netty/internal/tcnative/ResultCallback.java
* /opt/cola/permits/2308688556_1736179267.1377916/0/netty-tcnative-classes-2-0-61-final-sources-4-jar/io/netty/internal/tcnative/AsyncTask.java
* /opt/cola/permits/2308688556_1736179267.1377916/0/netty-tcnative-classes-2-0-61-final-sources-4-jar/io/netty/internal/tcnative/AsyncSSLPrivateKeyMethodAdapter.java
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* /opt/cola/permits/2308688556_1736179267.1377916/0/netty-tcnative-classes-2-0-61-final-sources-4-jar/io/netty/internal/tcnative/NativeStaticallyReferencedJniMethods.java
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* /opt/cola/permits/2308688556_1736179267.1377916/0/netty-tcnative-classes-2-0-61-final-sources-4-jar/io/netty/internal/tcnative/SSLSession.java
* /opt/cola/permits/2308688556_1736179267.1377916/0/netty-tcnative-classes-2-0-61-final-sources-4-jar/io/netty/internal/tcnative/SSLSessionCache.java
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* /opt/cola/permits/2308688556_1736179267.1377916/0/netty-tcnative-classes-2-0-61-final-sources-4-jar/io/netty/internal/tcnative/SSLPrivateKeyMethodDecryptTask.java
*
 /opt/cola/permits/2308688556_1736179267.1377916/0/netty-tcnative-classes-2-0-61-final-sources-4-jar/io/netty/internal/tcnative/SSLPrivateKeyMethodTask.java
* /opt/cola/permits/2308688556_1736179267.1377916/0/netty-tcnative-classes-2-0-61-final-sources-4-jar/io/netty/internal/tcnative/SSLPrivateKeyMethodSignTask.java

* /opt/cola/permits/2308688556_1736179267.1377916/0/netty-tcnative-classes-2-0-61-final-sources-4-jar/io/netty/internal/tcnative/CertificateCallbackTask.java
* /opt/cola/permits/2308688556_1736179267.1377916/0/netty-tcnative-classes-2-0-61-final-sources-4-jar/io/netty/internal/tcnative/SSLTask.java
* /opt/cola/permits/2308688556_1736179267.1377916/0/netty-tcnative-classes-2-0-61-final-sources-4-jar/io/netty/internal/tcnative/CertificateVerifierTask.java
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*/
/**
    * Set the maximum number of bytes for the certificate chain during handshake.
    * See
    * <a
href="https://www.openssl.org/docs/man1.1.1/man3/SSL_CTX_set_max_cert_list.html">SSL_CTX_set_max_cert_
list</a>
    * for more details.
    * @param ctx context to use
    * @param size the maximum number of bytes
```

```
   */
```

Found in path(s):
* /opt/cola/permits/2308688556_1736179267.1377916/0/netty-tcnative-classes-2-0-61-final-sources-4-jar/io/netty/internal/tcnative/SSLContext.java
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* /opt/cola/permits/2308688556_1736179267.1377916/0/netty-tcnative-classes-2-0-61-final-sources-4-jar/io/netty/internal/tcnative/SSL.java
* /opt/cola/permits/2308688556_1736179267.1377916/0/netty-tcnative-classes-2-0-61-final-sources-4-jar/io/netty/internal/tcnative/Library.java
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* /opt/cola/permits/2308688556_1736179267.1377916/0/netty-tcnative-classes-2-0-61-final-sources-4-jar/io/netty/internal/tcnative/SessionTicketKey.java

1.5898 feign-jackson 13.3

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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin 5.1.9
Build-Jdk-Spec: 21
Build-Tool-Jdk-Spec: 21
Bnd-LastModified: 1718905906676
Bundle-Description: Feign Jackson
Bundle-DocURL: https://github.com/openfeign
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Feign Jackson
Bundle-SymbolicName: io.github.openfeign.feign-jackson
Bundle-Vendor: OpenFeign
Bundle-Version: 13.3.0
Export-Package: feign.jackson;uses:="com.fasterxml.jackson.databind,feig
n,feign.codec";version="13.3.0"
Import-Package: com.fasterxml.jackson.annotation;version="[2.17,3)",com.
fasterxml.jackson.core;version="[2.17,3)",com.fasterxml.jackson.databin
d;version="[2.17,3)",com.fasterxml.jackson.databind.type;version="[2.17
,3)",feign;version="[13.3,14)",feign.codec;version="[13.3,14)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found
 in path(s):
* /opt/cola/permits/2308690539_1736179558.1458712/0/feign-jackson-13-3-1-jar/META-INF/MANIFEST.MF

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* /opt/cola/permits/2308690539_1736179558.1458712/0/feign-jackson-13-3-1-jar/META-INF/maven/io.github.openfeign/feign-jackson/pom.xml

1.5899 jetty-util 12.0.14

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/**
* Ensures serial invocation of submitted tasks.
*
* The {@link InvocationType} of the {@link Runnable} returned from this class is
* always {@link InvocationType#BLOCKING} since a blocking task may be added to the queue
* at any time.
*
* This class was inspired by the public domain class
* NonBlockingMutexExecutor
*
*/

Found in path(s):
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-

jar/org/eclipse/jetty/util/thread/SerializedInvoker.java
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* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/AsciiLowerCaseSet.java
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/DeprecationWarning.java
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/IteratingCallback.java
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/MemoryUtils.java
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/jndi/NamingDump.java
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/MathUtils.java
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/thread/ThreadPool.java
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/component/Environment.java
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/Utf8LineParser.java
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/preventers/AppContextLeakPreventer.java
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/component/ClassLoaderDump.java
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/QuotedStringTokenizer.java
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/statistic/CounterStatistic.java
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/thread/Scheduler.java
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/IncludeExcludeSet.java
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/InetAddressPattern.java
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/RFC9110QuotedStringTokenizer.java
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/AbstractTrie.java
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/Index.java

* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/resource/PathResourceFactory.java
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/DecoratedObjectFactory.java
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/StaticException.java
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/CharsetStringBuilder.java
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/resource/FileSystemPool.java
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/LazyList.java
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/thread/ThreadClassLoaderScope.java
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/component/Container.java
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/resource/GraalIssue5720PathResourceFactory.java
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/SocketAddressResolver.java
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/annotation/Name.java
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/thread/SerializedExecutor.java
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/security/SecurityUtils.java
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/resource/Resources.java
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/thread/AutoLock.java
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/Pool.java
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/resource/Resource.java
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/UrlEncoded.java
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/Blocker.java
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/resource/MountedPathResourceFactory.java
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/LegacyQuotedStringTokenizer.java
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/SearchPattern.java
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-

jar/org/eclipse/jetty/util/component/FileNoticeLifeCycleListener.java
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/resource/package-info.java
*
 /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/security/package-info.java
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/Callback.java
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/component/LifeCycle.java
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/MultiPartOutputStream.java
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/annotation/package-info.java
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/ByteArrayOutputStream2.java
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/ManifestUtils.java
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/component/Dumpable.java
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* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/RolloverFileOutputStream.java
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/Utf8StringBuilder.java
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/resource/ResourceUriPatternPredicate.java
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/ConstantThrowable.java
No license file was found, but licenses were detected in source scan.

```
/*
* @(#)UnixCrypt.java 0.9 96/11/25
*
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*
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* hereby granted provided that this copyright notice appears in
* all copies.
*/
```

Found in path(s):
* /opt/cola/permits/2308690653_1736179569.2076304/0/jetty-util-12-0-14-sources-1-jar/org/eclipse/jetty/util/security/UnixCrypt.java

1.5900 feign-core 13.3

1.5900.1 Available under license :

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```
<!--

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```

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-->

Found in path(s):
* /opt/cola/permits/2308690494_1736179543.4336472/0/feign-core-13-3-1-jar/META-INF/maven/io.github.openfeign/feign-core/pom.xml
No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin 5.1.9
Build-Jdk-Spec: 21
Build-Tool-Jdk-Spec: 21
Bnd-LastModified: 1718905838949
Bundle-Description: Feign Core
Bundle-DocURL: https://github.com/openfeign
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Feign Core
Bundle-SymbolicName: io.github.openfeign.feign-core
Bundle-Vendor: OpenFeign
Bundle-Version: 13.3.0
Export-Package: feign;uses:="feign.codec,feign.querymap,javax.net.ssl";v
ersion="13.3.0",feign.auth;uses:=feign;version="13.3.0",feign.codec;use
s:=feign;version="13.3.0",feign.optionals;uses:="feign,feign.codec";ver
sion="13.3.0",feign.querymap;uses:="feign,feign.codec";version="13.3.0"
,feign.stream;uses:="feign,feign.codec";version="13.3.0",feign.template
;uses:=feign;version="13.3.0",feign.utils;version="13.3.0"
Import-Package: feign,feign.codec,feign.querymap,feign.template,javax.ne
t.ssl
Require-Capability:
 osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /opt/cola/permits/2308690494_1736179543.4336472/0/feign-core-13-3-1-jar/META-INF/MANIFEST.MF

1.5901 amqp-client 5.21.0

1.5901.1 Available under license :

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/opt/cola/permits/2308690510_1736179561.3596354/0/amqp-client-5-21-0-1-jar/com/rabbitmq/client/impl/AMQConnection.class: binary file matches

/opt/cola/permits/2308690510_1736179561.3596354/0/amqp-client-5-21-0-1-
jar/com/rabbitmq/client/impl/Copyright.class: binary file matches

Found in path(s):
* /bin/grep
No license file was found, but licenses were detected in source scan.

<content>// Copyright (c) $YEAR Broadcom. All Rights Reserved.
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Found in path(s):
* /opt/cola/permits/2308690510_1736179561.3596354/0/amqp-client-5-21-0-1-jar/META-
INF/maven/com.rabbitmq/amqp-client/pom.xml
No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Bundle-Description: The RabbitMQ Java client library allows Java appli
cations to interface with RabbitMQ.
Implementation-Title: RabbitMQ Java Client
Automatic-Module-Name: com.rabbitmq.client
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html, http
s://www.gnu.org/licenses/gpl-2.0.txt, https://www.mozilla.org/en-US/M
PL/2.0/
Bundle-SymbolicName: com.rabbitmq.client
Implementation-Version: 5.21.0
Bnd-LastModified: 1712565585610
Bundle-ManifestVersion: 2
Specification-Vendor: AMQP Working Group (www.amqp.org)
Specification-Title: AMQP
Bundle-DocURL: https://www.rabbitmq.com
Bundle-Vendor: Broadcom Inc. and its subsidiaries.
Import-Package: com.codahale.metrics;version="[4.2,5)";resolution:=opt
ional,com.fasterxml.jackson.core;version="[2.17,3)";resolution:=optio
nal,com.fasterxml.jackson.databind;version="[2.17,3)";resolution:=opt
ional,com.fasterxml.jackson.databind.node;version="[2.17,3)";resoluti
 on:=optional,com.rabbitmq.client,com.rabbitmq.client.impl,com.rabbitm
q.client.impl.nio,com.rabbitmq.client.impl.recovery,com.rabbitmq.clie
nt.observation,com.rabbitmq.tools.json,com.rabbitmq.utility,io.microm
eter.common;version="[1.12,2)";resolution:=optional,io.micrometer.com
mon.docs;version="[1.12,2)";resolution:=optional,io.micrometer.common
.util;version="[1.12,2)";resolution:=optional,io.micrometer.core.inst
rument;version="[1.12,2)";resolution:=optional,io.micrometer.observat
ion;version="[1.12,2)";resolution:=optional,io.micrometer.observation
.docs;version="[1.12,2)";resolution:=optional,io.micrometer.observati
on.transport;version="[1.12,2)";resolution:=optional,io.opentelemetry
.api;resolution:=optional,io.opentelemetry.api.common;resolution:=opt

```
ional,io.opentelemetry.api.metrics;resolution:=optional,javax.naming,
javax.naming.directory,javax.net,javax.net.ssl,javax.security.auth.ca
llback,javax.security.auth.x500,javax.security.sasl,org.slf4j;version
 ="[1.7,2)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316
Implementation-Vendor: Broadcom Inc. and its subsidiaries.
Export-Package: com.rabbitmq.client;uses:="com.rabbitmq.client.impl,co
m.rabbitmq.client.impl.nio,com.rabbitmq.client.impl.recovery,com.rabb
itmq.client.observation,com.rabbitmq.utility,javax.net,javax.net.ssl"
;version="5.21.0",com.rabbitmq.client.impl;uses:="com.codahale.metric
s,com.rabbitmq.client,com.rabbitmq.client.impl.recovery,com.rabbitmq.
client.observation,com.rabbitmq.utility,io.micrometer.core.instrument
,io.opentelemetry.api,io.opentelemetry.api.common,javax.net,javax.net
.ssl";version="5.21.0",com.rabbitmq.client.impl.nio;uses:="com.rabbit
mq.client,com.rabbitmq.client.impl,javax.net.ssl";version="5.21.0",co
m.rabbitmq.client.impl.recovery;uses:="com.rabbitmq.client,com.rabbit
mq.client.impl,com.rabbitmq.client.observation";version="5.21.0",com.
rabbitmq.client.observation;uses:="com.rabbitmq.client";version="5.21
 .0",com.rabbitmq.client.observation.micrometer;uses:="com.rabbitmq.cl
ient.observation,io.micrometer.common,io.micrometer.common.docs,io.mi
crometer.observation,io.micrometer.observation.docs,io.micrometer.obs
ervation.transport";version="5.21.0",com.rabbitmq.tools;version="5.21
.0",com.rabbitmq.tools.json;version="5.21.0",com.rabbitmq.tools.jsonr
pc;uses:="com.fasterxml.jackson.core,com.fasterxml.jackson.databind,c
om.rabbitmq.client";version="5.21.0",com.rabbitmq.utility;version="5.
21.0"
Bundle-Name: RabbitMQ Java Client
Bundle-Version: 5.21.0
Build-Jdk-Spec: 1.8
Created-By: Apache Maven Bundle Plugin 5.1.9
Implementation-URL: https://www.rabbitmq.com
Specification-Version: 0.9.1

Found in path(s):
* /opt/cola/permits/2308690510_1736179561.3596354/0/amqp-client-5-21-0-1-jar/META-INF/MANIFEST.MF
```

1.5902 jackson-xc 2.17.2

1.5902.1 Available under license :

```
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.
```

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1.5903 feign-okhttp 13.3

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Found in path(s):
* /opt/cola/permits/2308690551_1736179602.828095/0/feign-okhttp-13-3-1-jar/META-INF/maven/io.github.openfeign/feign-okhttp/pom.xml

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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin 5.1.9
Build-Jdk-Spec: 21
Build-Tool-Jdk-Spec: 21
Bnd-LastModified: 1718905983095
Bundle-Description: Feign OkHttp
Bundle-DocURL: https://github.com/openfeign
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Feign OkHttp
Bundle-SymbolicName: io.github.openfeign.feign-okhttp
Bundle-Vendor: OpenFeign
Bundle-Version: 13.3.0
Export-Package: feign.okhttp;uses:="feign,okhttp3";version="13.3.0"
Import-Package: feign;version="[13.3,14)",okhttp3
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /opt/cola/permits/2308690551_1736179602.828095/0/feign-okhttp-13-3-1-jar/META-INF/MANIFEST.MF

1.5904 spring-security-rsa 1.1.3

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Found in path(s):
* /opt/cola/permits/2308693843_1736180738.559083/0/spring-security-rsa-1-1-3-sources-2-jar/META-INF/maven/org.springframework.security/spring-security-rsa/pom.xml
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Found in path(s):
* /opt/cola/permits/2308693843_1736180738.559083/0/spring-security-rsa-1-1-3-sources-2-jar/org/springframework/security/rsa/crypto/RsaAlgorithm.java
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Found in path(s):
* /opt/cola/permits/2308693843_1736180738.559083/0/spring-security-rsa-1-1-3-sources-2-jar/org/springframework/security/rsa/crypto/CipherUtils.java
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Found in path(s):
* /opt/cola/permits/2308693843_1736180738.559083/0/spring-security-rsa-1-1-3-sources-2-

jar/org/springframework/security/rsa/crypto/KeyStoreKeyFactory.java
* /opt/cola/permits/2308693843_1736180738.559083/0/spring-security-rsa-1-1-3-sources-2-jar/org/springframework/security/rsa/crypto/RsaKeyHolder.java
*
/opt/cola/permits/2308693843_1736180738.559083/0/spring-security-rsa-1-1-3-sources-2-jar/org/springframework/security/rsa/crypto/RsaSecretEncryptor.java
* /opt/cola/permits/2308693843_1736180738.559083/0/spring-security-rsa-1-1-3-sources-2-jar/org/springframework/security/rsa/crypto/RsaKeyHelper.java
* /opt/cola/permits/2308693843_1736180738.559083/0/spring-security-rsa-1-1-3-sources-2-jar/org/springframework/security/rsa/crypto/RsaRawEncryptor.java

1.5905 jackson-module-parameter-names 2.17.3

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1.5906 multierr 1.11.0

1.5906.1 Available under license :

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1.5907 zap-exp 1.27.0

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1.5908 go-glob 1.0.0

1.5908.1 Available under license :

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1.5909 deepcopy 0.0.0-20170929034955-c48cc78d4826

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1.5910 click 8.1.3

1.5910.1 Available under license :

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Found in path(s):
* /opt/cola/permits/2308695006_1736181188.1289606/0/pallets-click-8-1-3-0-g9c6f4c8-1-tar-gz/pallets-click-894ac30/src/click/parser.py
No license file was found, but licenses were detected in source scan.

.. _contrib:

==========
click-contrib
==========

As the userbase of Click grows, more and more major feature requests pop up in Click's bugtracker. As reasonable as it may be for those features to be bundled with Click instead of being a standalone project, many of those requested features are either highly experimental or have unproven practical use, while potentially being a burden to maintain.

This is why click-contrib_ exists. The GitHub organization is a collection of possibly experimental third-party packages whose featureset does not belong into Click, but also a playground for major features that may be added to Click in the future. It is also meant to coordinate and concentrate effort on writing third-party extensions for Click, and to ease the effort of searching for such extensions. In that sense it could be described as a low-maintenance alternative to extension repositories of other frameworks.

Please
note that the quality and stability of those packages may be different than what you expect from Click itself. While published under a common organization, they are still projects separate from Click.

.. _click-contrib: https://github.com/click-contrib/

Found in path(s):
* /opt/cola/permits/2308695006_1736181188.1289606/0/pallets-click-8-1-3-0-g9c6f4c8-1-tar-gz/pallets-click-894ac30/docs/contrib.rst
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Contributor Covenant Code of Conduct

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In the interest of fostering an open and welcoming environment, we as contributors and maintainers pledge to making participation in our project and our community a harassment-free experience for everyone, regardless of age, body size, disability, ethnicity, sex characteristics, gender identity and expression, level of experience, education, socio-economic status, nationality, personal appearance, race, religion, or sexual identity and orientation.

Our Standards

Examples of behavior that contributes to creating a positive environment include:

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* Being respectful of differing viewpoints and experiences
* Gracefully accepting constructive criticism
* Focusing on what is best for the community
* Showing empathy towards other community members

Examples of unacceptable behavior by participants include:

* The use of sexualized language or imagery and unwelcome sexual attention or advances
* Trolling, insulting/derogatory comments, and personal or political attacks
* Public or private harassment
* Publishing others' private information, such as a physical or electronic address, without explicit permission
* Other conduct which could reasonably be considered inappropriate in a professional setting

Our Responsibilities

Project maintainers are responsible for clarifying the standards of acceptable behavior and are expected to take appropriate and fair corrective action in response to any instances of unacceptable behavior.

Project maintainers have the right and responsibility to remove, edit, or reject comments, commits, code, wiki edits, issues, and other contributions

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Found in path(s):
* /opt/cola/permits/2308695006_1736181188.1289606/0/pallets-click-8-1-3-0-g9c6f4c8-1-tar-gz/pallets-click-894ac30/CODE_OF_CONDUCT.md
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Found in path(s):
* /opt/cola/permits/2308695006_1736181188.1289606/0/pallets-click-8-1-3-0-g9c6f4c8-1-tar-gz/pallets-click-894ac30/setup.cfg

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Found in path(s):
* /opt/cola/permits/2308695006_1736181188.1289606/0/pallets-click-8-1-3-0-g9c6f4c8-1-tar-gz/pallets-click-894ac30/tests/test_formatting.py
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1.5911 wcwidth 0.2.5

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1.5912 go-metrics 0.4.1

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1.5913 byte-buddy 1.14.19

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1.5915 jackson-xc 2.16.0

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1.5917 rpc 1.1.0

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1.5919 dnsutils 1.0.1

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1.5920 jackson-module-parameter-names 2.15.4

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1.5922 etcd-client-pkg 3.5.14

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1.5923 go-grpc-middleware 1.4.0

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1.5924 zap-exp 1.17.0

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1.5925 etcd-client-pkg 3.5.13

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1.5926 etcd-client-pkg 3.5.12

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1.5936 x-sync 0.3.0

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}
# This source code was written by the Go contributors.
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# visible at https://tip.golang.org/CONTRIBUTORS.
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package spec

import "testing"

func TestIntegrationLicense(t *testing.T) {
 license := License{Name: "the name", URL: "the url"}
 const licenseJSON = `{"name":"the name","url":"the url"}`
 const licenseYAML = "name: the name\nurl: the url\n"

 assertSerializeJSON(t, license, licenseJSON)
 assertParsesJSON(t, licenseJSON, license)
```

}

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1.5938 reflect2 1.0.1

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1.5939 plexus-utils 3.3.1

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1.5944 slog-shim 0.1.0

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1.5945 go-grpc-middleware 1.0.1-0.20190118093823-f849b5445de4

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1.5946 go-grpc-middleware 1.3.0

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1.5947 etcd-api 3.5.14

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1.5948 zap-exp 1.26.0

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1.5949 go-grpc-middleware 1.2.0

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1.5950 golang-glog 1.1.0

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1.5952 zap-exp 1.21.0

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1.5954 procfs 0.11.1

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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1.5955 codegangsta-cli 1.22.4

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1.5957 pyasn1 0.4.8

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ASN.1 library for Python
==========

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Abstract Syntax Notation One (`ASN.1
<http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x>`_) is a
technology for exchanging structured data in a universally understood,
hardware agnostic way. Many industrial, security and telephony
applications heavily rely on ASN.1.

The `pyasn1 <https://pypi.org/project/pyasn1/>`_ library implements
ASN.1 support in pure-Python.

What is ASN.1

ASN.1 is a large, arguably over-engineered and extremely old data modelling and
serialisation tool. It is probably among the first serialisation protocols in
the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first
electronic mail (known as X.400). Later on if was split off the e-mail application
and become a stand-alone tech still being actively supported by its designers
and
 widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the
first, unsuccessful, version of the Internet. You can read many interesting
`discussions <https://news.ycombinator.com/item?id=8871453>`_ on that topic.

In the following years, generations of software engineers tackled the serialisation
problem many times. We can see that in Google's `ProtoBuffers <https://developers.google.com/protocol-buffers/>`_
or `FlatBuffers <https://google.github.io/flatbuffers/>`_, for example.
Interestingly, many new takes on binary protocol design do not depart
far from ASN.1 from technical perspective. It's more of a matter of striking
a balance between processing overhead, wire format overhead and human
readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

* Data types: the standard introduces a collection of basic data types
 (integers, bits, strings, arrays and records) that can be used for describing

arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP, CBEFF, ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the `statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`_ on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

Documentation

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  /pyasn1/contents

Use case

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  /example-use-case

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Changes

All changes and release history is maintained in changelog. There you
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Getting help

Please, file your `issues <https://github.com/etingof/pyasn1/issues>`_
and `PRs <https://github.com/etingof/pyasn1/pulls>`_ at GitHub.
Alternatively, you could ask for help at
`Stack Overflow <http://stackoverflow.com/questions/tagged/pyasn1>`_
or search

`pyasn1-users <https://lists.sourceforge.net/lists/listinfo/pyasn1-users>`_
mailing list archive.

Books on ASN.1

The pyasn1 implementation is largely based on reading up the following awesome
books:

* `ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>`_ by Olivier Dubuisson
* `ASN.1 Complete <http://www.oss.com/asn1/resources/books-whitepapers-pubs/larmouth-asn1-book.pdf>`_ by Prof John Larmouth

Here you can get the official standards which is hard to read:

* `ITU standards
 <http://www.itu.int/ITU-T/studygroups/com17/languages/X.680-X.693-0207w.zip>`_

On the other end of the readability spectrum, here is a quick and sweet write up:

* `A Layman's Guide to a Subset of ASN.1, BER, and DER <ftp://ftp.rsasecurity.com/pub/pkcs/ascii/layman.asc>`_ by Burton S. Kaliski

If you are working with ASN.1, we'd highly recommend reading a proper
book on the subject.

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* /opt/cola/permits/2308723715_1736184137.6761692/0/pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/codec/der/__main__.py
* /opt/cola/permits/2308723715_1736184137.6761692/0/pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/__main__.py
* /opt/cola/permits/2308723715_1736184137.6761692/0/pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/compat/__main__.py
* /opt/cola/permits/2308723715_1736184137.6761692/0/pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/codec/ber/encoder.py
* /opt/cola/permits/2308723715_1736184137.6761692/0/pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/type/test_univ.py
* /opt/cola/permits/2308723715_1736184137.6761692/0/pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/type/char.py
* /opt/cola/permits/2308723715_1736184137.6761692/0/pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/codec/native/__main__.py
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* /opt/cola/permits/2308723715_1736184137.6761692/0/pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/codec/der/test_encoder.py
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* /opt/cola/permits/2308723715_1736184137.6761692/0/pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/type/univ.py
* /opt/cola/permits/2308723715_1736184137.6761692/0/pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/type/tagmap.py
* /opt/cola/permits/2308723715_1736184137.6761692/0/pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/codec/cer/__main__.py
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* /opt/cola/permits/2308723715_1736184137.6761692/0/pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/codec/cer/decoder.py
* /opt/cola/permits/2308723715_1736184137.6761692/0/pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/setup.py
* /opt/cola/permits/2308723715_1736184137.6761692/0/pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/compat/dateandtime.py
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Metadata-Version: 1.2
Name: pyasn1
Version: 0.4.8
Summary: ASN.1 types and codecs
Home-page: https://github.com/etingof/pyasn1
Author: Ilya Etingof
Author-email: etingof@gmail.com
Maintainer: Ilya Etingof <etingof@gmail.com>

License: BSD
Description: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)
Platform: any
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: Education
Classifier: Intended Audience :: Information Technology
Classifier: Intended Audience :: System Administrators
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Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.4
Classifier:
Programming Language :: Python :: 2.5
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.2
Classifier: Programming Language :: Python :: 3.3
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Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7
Classifier: Topic :: Communications
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* /opt/cola/permits/2308723715_1736184137.6761692/0/pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1.egg-info/PKG-INFO
* /opt/cola/permits/2308723715_1736184137.6761692/0/pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/PKG-INFO
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ASN.1 library for Python

[![PyPI](https://img.shields.io/pypi/v/pyasn1.svg?maxAge=2592000)](https://pypi.org/project/pyasn1)
[![Python Versions](https://img.shields.io/pypi/pyversions/pyasn1.svg)](https://pypi.org/project/pyasn1/)
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blue.svg)](https://raw.githubusercontent.com/etingof/pyasn1/master/LICENSE.txt)

This is a free and open source implementation of ASN.1 types and codecs
as a Python package. It has been first written to support particular
protocol (SNMP) but then generalized to be suitable for a wide range

of protocols based on
[ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features
---

*
 Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.7
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1

ASN.1 solves the data serialisation problem. This solution was
designed long ago by the wise Ancients. Back then, they did not
have the luxury of wasting bits. That is why ASN.1 is designed
to serialise data structures of unbounded complexity into
something compact and efficient when it comes to processing
the data.

That probably explains why many network protocols and file formats
still rely on the 30+ years old technology. Including a number of
high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1.
[Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html)
by
 Olivier Dubuisson is one of those high quality books freely
available on the Internet.

The pyasn1 package is designed to help Python programmers tackling
network protocols and file formats at the comfort of their Python
prompt. The tool struggles to capture all aspects of a rather
complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

With pyasn1 you can build Python objects from ASN.1 data structures.
For example, the following ASN.1 data structure:

```bash
Record ::= SEQUENCE {
```

```
 id       INTEGER,
 room  [0] INTEGER OPTIONAL,
 house [1] INTEGER DEFAULT 0
}
```

Could be expressed in pyasn1 like this:

```python
class Record(Sequence):
   componentType = NamedTypes(
       NamedType('id', Integer()),
       OptionalNamedType(
           'room', Integer().subtype(
               implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
           )
       ),
       DefaultedNamedType(
           'house',
 Integer(0).subtype(
               implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
           )
       )
   )
```

It is in the spirit of ASN.1 to take abstract data description
and turn it into a programming language specific form.
Once you have your ASN.1 data structure expressed in Python, you
can use it along the lines of similar Python type (e.g. ASN.1
`SET` is similar to Python `dict`, `SET OF` to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
```

Part of the power of ASN.1 comes from its serialisation features. You
can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
```

```
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify,
 encode and send back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>>    print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id':
 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
```

id=123
room=321
>>>
```

With ASN.1 design, serialisation codecs are decoupled from data objects,
so you could turn every single ASN.1 object into many different
serialised forms. As of this moment, pyasn1 supports BER, DER, CER and
Python built-ins codecs. The extremely compact PER encoding is expected
to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the
[documentation](http://snmplabs.com/pyasn1/),
compiled ASN.1 modules for different protocols and file formats
could be found in the pyasn1-modules
[repo](https://github.com/etingof/pyasn1-modules).

How to get pyasn1
---

The pyasn1 package is distributed under terms and conditions of 2-clause
BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely
available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.org/project/pyasn1).

If
 something does not work as expected,
[open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or
post your question [on Stack Overflow](https://stackoverflow.com/questions/ask)
or try browsing pyasn1
[mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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Found in path(s):
* /opt/cola/permits/2308723715_1736184137.6761692/0/pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/README.md

# 1.5958 jsonpatch 4.12.0+incompatible

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1.5959 zipkin-go-opentracing 0.5.0

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procfs provides functions to retrieve system, kernel and process
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1.5971 distlib 0.3.9

1.5971.1 Available under license :

A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes

1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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==========

The Distutils2 project was started by Tarek Ziad and is currently
maintained by ric Araujo. Many people have contributed to the project.

distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order,
and welcome into the Fellowship of the Packaging!

Thanks to:

- Rajiv Abraham
- Ali Afshar
- David Barnett
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1.5972 platformdirs 3.8.1

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1.5973 idna 3.6

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1.5974 distlib 0.3.8

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A. HISTORY OF THE SOFTWARE
==========

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				

2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a
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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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1.5976 pyasn1 0.5.1

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ASN.1 library for Python

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This is a free and open source implementation of ASN.1 types and codecs
as a Python package. It has been first written to support particular
protocol (SNMP) but then generalized to be suitable for a wide range
of protocols based on
[ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

NOTE:
 The package is now maintained by *Christian Heimes* and
Simon Pichugin in project https://github.com/pyasn1/pyasn1.

Features
---

* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Can operate on streams of serialized data
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.7 and 3.6+
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1

ASN.1 solves the data serialisation problem. This solution was
designed long ago by the wise Ancients. Back then, they did not
have the luxury of wasting bits. That is why ASN.1 is designed
to serialise data structures of unbounded complexity into
something compact and efficient when it comes to processing

the data.

That probably explains why many network protocols and file formats
still rely on the 30+ years old technology.
Including a number of
high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1.
[Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html)
by Olivier Dubuisson is one of those high quality books freely
available on the Internet.

The pyasn1 package is designed to help Python programmers tackling
network protocols and file formats at the comfort of their Python
prompt. The tool struggles to capture all aspects of a rather
complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

With pyasn1 you can build Python objects from ASN.1 data structures.
For example, the following ASN.1 data structure:

```bash
Record ::= SEQUENCE {
 id       INTEGER,
 room  [0] INTEGER OPTIONAL,
 house [1] INTEGER DEFAULT 0
}
```

Could be expressed in pyasn1 like this:

```python
class Record(Sequence):
  componentType = NamedTypes(
      NamedType('id', Integer()),
      OptionalNamedType(
          'room', Integer().subtype(
              implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
          )
      ),
      DefaultedNamedType(
          'house', Integer(0).subtype(
              implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
          )
      )
  )
```

```

It is in the spirit of ASN.1 to take abstract data description
and turn it into a programming language specific form.
Once you have your ASN.1 data structure expressed in Python, you
can use it along the lines of similar Python type (e.g. ASN.1
`SET` is similar to Python `dict`, `SET OF` to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
```

Part of the power of ASN.1 comes from its serialisation features. You
can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000:
 30 07 02 01 7B 80 02 01 41
```

Conversely, you can turn serialised ASN.1 content, as received from
network or read from a file, into a Python object which you can
introspect, modify, encode and send back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>>    print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
```
```

```
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room':
 321, 'house': 0}
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
>>>
```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

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How to get pyasn1

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](https://pyasn1.readthedocs.io/en/latest/license.html). Source code is freely available as a GitHub [repo](https://github.com/pyasn1/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.org/project/pyasn1).

If something does not work as expected,
[open an issue](https://github.com/epyasn1/pyasn1/issues) at GitHub or
post your question [on Stack Overflow](https://stackoverflow.com/questions/ask)
or try browsing pyasn1
[mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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Found in path(s):
* /opt/cola/permits/2308754520_1736186568.342929/0/pyasn1-0-5-1-1-tar-gz/pyasn1-0.5.1/README.md
No license file was found, but licenses were detected in source scan.

Metadata-Version: 2.1
Name: pyasn1
Version: 0.5.1
Summary: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)
Home-page: https://github.com/pyasn1/pyasn1
Author: Ilya Etingof
Author-email: etingof@gmail.com
Maintainer: pyasn1 maintenance organization
Maintainer-email: Christian Heimes <christian@python.org>
License: BSD-2-Clause
Project-URL: Documentation, https://pyasn1.readthedocs.io
Project-URL: Source, https://github.com/pyasn1/pyasn1
Project-URL: Issues, https://github.com/pyasn1/pyasn1/issues
Project-URL: Changelog, https://pyasn1.readthedocs.io/en/latest/changelog.html
Platform: any
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: Education
Classifier: Intended Audience :: Information Technology
Classifier: Intended Audience :: System Administrators
Classifier: Intended Audience
 :: Telecommunications Industry
Classifier: License :: OSI Approved :: BSD License
Classifier: Natural Language :: English
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.6
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Classifier: Programming Language :: Python :: 3.8

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Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy
Classifier: Topic :: Communications
Classifier: Topic :: Software Development :: Libraries :: Python Modules
Requires-Python: !=3.0.*,!=3.1.*,!=3.2.*,!=3.3.*,!=3.4.*,!=3.5.*,>=2.7
Description-Content-Type:
 text/markdown
License-File: LICENSE.rst

ASN.1 library for Python

[![PyPI](https://img.shields.io/pypi/v/pyasn1.svg?maxAge=2592000)](https://pypi.org/project/pyasn1)
[![Python Versions](https://img.shields.io/pypi/pyversions/pyasn1.svg)](https://pypi.org/project/pyasn1/)
[![Build
status](https://github.com/pyasn1/pyasn1/actions/workflows/main.yml/badge.svg)](https://github.com/pyasn1/pyasn1/actions/workflows/main.yml)
[![Coverage
Status](https://img.shields.io/codecov/c/github/pyasn1/pyasn1.svg)](https://codecov.io/github/pyasn1/pyasn1)
[![GitHub license](https://img.shields.io/badge/license-BSD-
blue.svg)](https://raw.githubusercontent.com/pyasn1/pyasn1/master/LICENSE.txt)

This is a free and open source implementation of ASN.1 types and codecs
as a Python package. It has been first written to support particular
protocol (SNMP) but then generalized to be suitable for a wide range
of protocols based on
[ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-
E&type=items).

NOTE:
 The package is now maintained by *Christian Heimes* and
Simon Pichugin in project https://github.com/pyasn1/pyasn1.

Features
---

* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Can operate on streams of serialized data
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.7 and 3.6+
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology.
Including a number of
high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1.
[Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html) by Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

With pyasn1 you can build Python objects from ASN.1 data structures.
For example, the following ASN.1 data structure:

```bash
Record ::= SEQUENCE {
 id       INTEGER,
 room  [0] INTEGER OPTIONAL,
 house [1] INTEGER DEFAULT 0
}
```

Could be expressed in pyasn1 like this:

```python
class Record(Sequence):
  componentType = NamedTypes(
      NamedType('id', Integer()),
      OptionalNamedType(
          'room', Integer().subtype(
            implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
```

```
        )
    ),
    DefaultedNamedType(
        'house', Integer(0).subtype(
            implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
        )
    )
  )
```

It is in the spirit of ASN.1 to take abstract data description
and turn it into a programming language specific form.
Once you have your ASN.1 data structure expressed in Python, you
can use it along the lines of similar Python type (e.g. ASN.1
`SET` is similar to Python `dict`, `SET OF` to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
```

Part of the power of ASN.1 comes from its serialisation features. You
can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000:
 30 07 02 01 7B 80 02 01 41
```

Conversely, you can turn serialised ASN.1 content, as received from
network or read from a file, into a Python object which you can
introspect, modify, encode and send back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>>    print('{} is {}'.format(field, received_record[field]))
```

```
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321,
 'house': 0}
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
>>>
```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

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or try browsing pyasn1
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* /opt/cola/permits/2308754520_1736186568.342929/0/pyasn1-0-5-1-1-tar-gz/pyasn1-0.5.1/PKG-INFO
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No license file was found, but licenses were detected in source scan.

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License
=======

.. include:: ../../LICENSE.rst

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No license file was found, but licenses were detected in source scan.

```
[metadata]
name = pyasn1
version = attr: pyasn1.__version__
description = Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)
long_description = file: README.md
long_description_content_type = text/markdown
license = BSD-2-Clause
license_files = LICENSE.rst
url = https://github.com/pyasn1/pyasn1
author = Ilya Etingof
author_email = etingof@gmail.com
maintainer = pyasn1 maintenance organization
maintainer_email = Christian Heimes <christian@python.org>
project_urls =
 Documentation=https://pyasn1.readthedocs.io
 Source=https://github.com/pyasn1/pyasn1
 Issues=https://github.com/pyasn1/pyasn1/issues
 Changelog=https://pyasn1.readthedocs.io/en/latest/changelog.html
platforms = any
classifiers =
 Development Status :: 5 - Production/Stable
 Environment :: Console
 Intended Audience :: Developers
 Intended Audience :: Education
 Intended Audience :: Information Technology
 Intended Audience :: System
 Administrators
 Intended Audience :: Telecommunications Industry
 License :: OSI Approved :: BSD License
 Natural Language :: English
 Operating System :: OS Independent
 Programming Language :: Python :: 2
 Programming Language :: Python :: 2.7
 Programming Language :: Python :: 3
 Programming Language :: Python :: 3.6
 Programming Language :: Python :: 3.7
 Programming Language :: Python :: 3.8
 Programming Language :: Python :: 3.9
 Programming Language :: Python :: 3.10
 Programming Language :: Python :: 3.11
 Programming Language :: Python :: 3.12
 Programming Language :: Python :: Implementation :: CPython
 Programming Language :: Python :: Implementation :: PyPy
 Topic :: Communications
 Topic :: Software Development :: Libraries :: Python Modules
```

```
[options]
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zip_safe = True
setup_requires = setuptools
packages =
 pyasn1
 pyasn1.type
 pyasn1.compat
 pyasn1.codec
 pyasn1.codec.ber
 pyasn1.codec.cer
 pyasn1.codec.der
 pyasn1.codec.native

[bdist_wheel]
universal
 = 1

[egg_info]
tag_build =
tag_date = 0
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Found in path(s):
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1.5977 @babel/helper-validator-identifier 7.22.20

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1.5978 spring-retry 1.3.3

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1.5980 pygments 2.19.1

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```
---input---
!%$^*__--__._+++===-crazy-symbol

---tokens---
'!%$^*__--__._+++===-crazy-symbol' Name.Variable
'\n'        Text.Whitespace
'# Step 1 of 3: from Hakaru to Maple LO (linear operator)\n' Comment.Single

'\n'        Text.Whitespace

'toLO'      Name
' '         Text.Whitespace
':='        Operator
' '         Text.Whitespace
'module'    Keyword
'()'        Punctuation
'\n  '      Text.Whitespace
'export'    Keyword
'\n  '      Text.Whitespace
```

'ModuleApply' Name
' ' Text.Whitespace
':=' Operator
' ' Text.Whitespace
'proc' Keyword
'(' Punctuation
'm' Name
',' Operator
' ' Text.Whitespace
'$' Operator
')' Punctuation
'\n ' Text.Whitespace
'local' Keyword
' ' Text.Whitespace
'h' Name
';' Punctuation
'\n ' Text.Whitespace
'h' Name
' ' Text.Whitespace
':=' Operator
' ' Text.Whitespace
'gensym' Name
'(' Punctuation
'"' Punctuation
'h' Name
'"' Punctuation
');' Punctuation
'\n
' Text.Whitespace
'_Env_HakaruSolve' Name
' ' Text.Whitespace
':=' Operator
' ' Text.Whitespace
'false' Name
';' Punctuation
'\n ' Text.Whitespace
'LO' Name
'(' Punctuation
'h' Name
',' Operator
' ' Text.Whitespace
'integrate' Name
'(' Punctuation
'm' Name
',' Operator
' ' Text.Whitespace
'h' Name
',' Operator

```
' '          Text.Whitespace
'[]))'       Punctuation
'\n  '       Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'proc'       Keyword
';'          Punctuation
'\n\n  '     Text.Whitespace
'export'     Keyword
'\n  '       Text.Whitespace
'integrate'  Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'proc'       Keyword
'('          Punctuation
'm'          Name
','          Operator
' '          Text.Whitespace
'h'
   Name
','          Operator
' '          Text.Whitespace
'loops'      Name
' '          Text.Whitespace
'::'         Operator
' '          Text.Whitespace
'list'       Name
'('          Punctuation
'name'       Name
' '          Text.Whitespace
'='          Operator
' '          Text.Whitespace
'range'      Name
')'          Punctuation
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'[]'         Punctuation
','          Operator
' '          Text.Whitespace
'$'          Operator
')'          Punctuation
'\n    '     Text.Whitespace
'local'      Keyword
' '          Text.Whitespace
'x'          Name
','          Operator
```

```
' '          Text.Whitespace
'n'          Name
','          Operator
' '          Text.Whitespace
'i'          Name
','          Operator
' '          Text.Whitespace
'res'        Name
','          Operator
' '          Text.Whitespace
'l'          Name
','          Operator
' '          Text.Whitespace
'br'
         Name
','          Operator
' '          Text.Whitespace
'm0'         Name
';'          Punctuation
'\n\n    '   Text.Whitespace
'if'         Keyword
' '          Text.Whitespace
'm'          Name
' '          Text.Whitespace
'::'         Operator
' '          Text.Whitespace
'known_continuous' Name
' '          Text.Whitespace
'then'       Keyword
'\n      '   Text.Whitespace
'integrate_known' Name
'('          Punctuation
'Int'        Name
','          Operator
' '          Text.Whitespace
'Ints'       Name
','          Operator
' '          Text.Whitespace
'"'          Punctuation
'xx'         Name
'"'          Punctuation
','          Operator
' '          Text.Whitespace
'm'          Name
','          Operator
' '          Text.Whitespace
'h'          Name
','          Operator
```

```
' '          Text.Whitespace
'loops'      Name
')'          Punctuation
'\n    '     Text.Whitespace
'elif'       Keyword
' '          Text.Whitespace
'm'
          Name
' '          Text.Whitespace
'::'         Operator
' '          Text.Whitespace
'known_discrete' Name
' '          Text.Whitespace
'then'       Keyword
'\n     '    Text.Whitespace
'integrate_known' Name
'('          Punctuation
'Sum'        Name
','          Operator
' '          Text.Whitespace
'Sums'       Name
','          Operator
' '          Text.Whitespace
'"'          Punctuation
'kk'         Name
'"'          Punctuation
','          Operator
' '          Text.Whitespace
'm'          Name
','          Operator
' '          Text.Whitespace
'h'          Name
','          Operator
' '          Text.Whitespace
'loops'      Name
')'          Punctuation
'\n    '     Text.Whitespace
'elif'       Keyword
' '          Text.Whitespace
'm'          Name
' '          Text.Whitespace
'::'         Operator
' '          Text.Whitespace
'"'          Punctuation
'Ret'        Name
'('          Punctuation
'anything'   Name
')'
```

```
    Punctuation
"""         Punctuation
' '         Text.Whitespace
'then'      Keyword
'\n     '   Text.Whitespace
'applyintegrand' Name
'('         Punctuation
'h'         Name
','         Operator
' '         Text.Whitespace
'mk_ary'    Name
'('         Punctuation
'op'        Name.Builtin
'('         Punctuation
'1'         Literal.Number.Integer
','         Operator
'm'         Name
')'         Punctuation
','         Operator
' '         Text.Whitespace
'loops'     Name
'))'        Punctuation
'\n    '    Text.Whitespace
'elif'      Keyword
' '         Text.Whitespace
'm'         Name
' '         Text.Whitespace
'::'        Operator
' '         Text.Whitespace
"""         Punctuation
'Bind'      Name
'('         Punctuation
'anything'  Name
','         Operator
' '         Text.Whitespace
'name'      Name
','         Operator
' '         Text.Whitespace
'anything'  Name
')'         Punctuation
"""
   Punctuation
' '         Text.Whitespace
'then'      Keyword
'\n     '   Text.Whitespace
'res'       Name
' '         Text.Whitespace
':='        Operator
```

```
' '          Text.Whitespace
'eval'       Name.Builtin
'('          Punctuation
'op'         Name.Builtin
'('          Punctuation
'3'          Literal.Number.Integer
','          Operator
'm'          Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'op'         Name.Builtin
'('          Punctuation
'2'          Literal.Number.Integer
','          Operator
'm'          Name
')'          Punctuation
' '          Text.Whitespace
'='          Operator
' '          Text.Whitespace
'mk_idx'     Name
'('          Punctuation
'op'         Name.Builtin
'('          Punctuation
'2'          Literal.Number.Integer
','          Operator
'm'          Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'loops'      Name
'));'        Punctuation
'\n
    '    Text.Whitespace
'res'        Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'eval'       Name.Builtin
'('          Punctuation
'Integrand'  Name
'('          Punctuation
'op'         Name.Builtin
'('          Punctuation
'2'          Literal.Number.Integer
','          Operator
'm'          Name
')'          Punctuation
```

```
','         Operator
' '         Text.Whitespace
"""         Punctuation
'integrate'   Name
"""         Punctuation
'('         Punctuation
'res'       Name
','         Operator
' '         Text.Whitespace
'x'         Name
','         Operator
' '         Text.Whitespace
'loops'     Name
'))'        Punctuation
','         Operator
' '         Text.Whitespace
'x'         Name
'='         Operator
'h'         Name
');'        Punctuation
'\n     '   Text.Whitespace
'integrate'   Name
'('         Punctuation
'op'        Name.Builtin
'('         Punctuation
'1'
        Literal.Number.Integer
','         Operator
'm'         Name
')'         Punctuation
','         Operator
' '         Text.Whitespace
'res'       Name
','         Operator
' '         Text.Whitespace
'loops'     Name
');'        Punctuation
'\n    '    Text.Whitespace
'elif'      Keyword
' '         Text.Whitespace
'm'         Name
' '         Text.Whitespace
'::'        Operator
' '         Text.Whitespace
"""         Punctuation
'specfunc'    Name
'('         Punctuation
'Msum'      Name
```

```
')'          Punctuation
"""          Punctuation
' '          Text.Whitespace
'and'        Keyword
' '          Text.Whitespace
'('          Punctuation
'nops'       Name.Builtin
'('          Punctuation
'loops'      Name
')'          Punctuation
' '          Text.Whitespace
'='          Operator
' '          Text.Whitespace
'0'          Literal.Number.Integer
' '          Text.Whitespace
'or'         Keyword
' '          Text.Whitespace
'nops'
       Name.Builtin
'('          Punctuation
'm'          Name
')'          Punctuation
' '          Text.Whitespace
'='          Operator
' '          Text.Whitespace
'1'          Literal.Number.Integer
')'          Punctuation
' '          Text.Whitespace
'then'       Keyword
'\n     '    Text.Whitespace
'`+`'        Name
'('          Punctuation
'op'         Name.Builtin
'('          Punctuation
'map'        Name.Builtin
'('          Punctuation
'integrate'  Name
','          Operator
' '          Text.Whitespace
'['          Punctuation
'op'         Name.Builtin
'('          Punctuation
'm'          Name
')]'         Punctuation
','          Operator
' '          Text.Whitespace
'h'          Name
','          Operator
```

```
' '          Text.Whitespace
'loops'      Name
')))'        Punctuation
'\n    '     Text.Whitespace
'elif'       Keyword
' '          Text.Whitespace
'm'          Name
' '          Text.Whitespace
'::'         Operator
'
 '           Text.Whitespace
'''''        Punctuation
'Weight'     Name
'('          Punctuation
'anything'   Name
','          Operator
' '          Text.Whitespace
'anything'   Name
')'          Punctuation
'''''        Punctuation
' '          Text.Whitespace
'then'       Keyword
'\n      '   Text.Whitespace
'foldl'      Name
'('          Punctuation
'product'    Name
','          Operator
' '          Text.Whitespace
'op'         Name.Builtin
'('          Punctuation
'1'          Literal.Number.Integer
','          Operator
'm'          Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'op'         Name.Builtin
'('          Punctuation
'loops'      Name
'))'         Punctuation
' '          Text.Whitespace
'*'          Operator
' '          Text.Whitespace
'integrate'  Name
'('          Punctuation
'op'         Name.Builtin
'('          Punctuation
'2'          Literal.Number.Integer
```

```
','         Operator
'm'
          Name
')'         Punctuation
','         Operator
' '         Text.Whitespace
'h'         Name
','         Operator
' '         Text.Whitespace
'loops'     Name
')'         Punctuation
'\n    '    Text.Whitespace
'elif'      Keyword
' '         Text.Whitespace
'm'         Name
' '         Text.Whitespace
'::'        Operator
' '         Text.Whitespace
't_pw_or_part' Name
' '         Text.Whitespace
'then'      Keyword
'\n     '   Text.Whitespace
'Partition'   Name
':'         Operator
'-'         Operator
'AppPartOrPw' Name
'\n                ' Text.Whitespace
'('         Punctuation
' '         Text.Whitespace
'proc'      Keyword
'('         Punctuation
'p'         Name
')'         Punctuation
'\n                    ' Text.Whitespace
'if'        Keyword
' '         Text.Whitespace
'not'       Keyword
' '         Text.Whitespace
'Partition'   Name
':'         Operator
'-'         Operator
'ConditionsDepend'
 Name
'('         Punctuation
'p'         Name
','         Operator
' '         Text.Whitespace
'lhs'       Name.Builtin
```

```
'~'          Operator
'('          Punctuation
'loops'      Name
'))'         Punctuation
' '          Text.Whitespace
'then'       Keyword
'\n                        ' Text.Whitespace
'Partition'  Name
':'          Operator
'-'          Operator
'Pmap'       Name
'('          Punctuation
'z'          Name
'->'         Operator
'integrate'  Name
'('          Punctuation
'z'          Name
','          Operator
'h'          Name
','          Operator
'loops'      Name
')'          Punctuation
','          Operator
'p'          Name
')'          Punctuation
'\n                      ' Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'if'         Keyword
';'          Punctuation
'\n                  ' Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'proc'       Keyword
'\n                '
 Text.Whitespace
','          Operator
' '          Text.Whitespace
'm'          Name
','          Operator
' '          Text.Whitespace
'['          Punctuation
"""          Punctuation
'no_split_disj' Name
"""          Punctuation
']);'        Punctuation
'\n    '     Text.Whitespace
'elif'       Keyword
```

```
' '          Text.Whitespace
'm'          Name
' '          Text.Whitespace
'::'         Operator
' '          Text.Whitespace
't_case'     Name
' '          Text.Whitespace
'and'        Keyword
' '          Text.Whitespace
'not'        Keyword
' '          Text.Whitespace
'depends'    Name
'('          Punctuation
'op'         Name.Builtin
'('          Punctuation
'1'          Literal.Number.Integer
','          Operator
'm'          Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'map'        Name.Builtin
'('          Punctuation
'lhs'        Name.Builtin
','          Operator
' '          Text.Whitespace
'loops'
      Name
'))'         Punctuation
' '          Text.Whitespace
'then'       Keyword
'\n    '     Text.Whitespace
'subsop'     Name.Builtin
'('          Punctuation
'2'          Literal.Number.Integer
'='          Operator
'map'        Name.Builtin
'('          Punctuation
'proc'       Keyword
'('          Punctuation
'b'          Name
' '          Text.Whitespace
'::'         Operator
' '          Text.Whitespace
'Branch'     Name
'('          Punctuation
'anything'   Name
','          Operator
```

```
' '          Text.Whitespace
'anything'    Name
'))'         Punctuation
'\n                  ' Text.Whitespace
'eval'        Name.Builtin
'('          Punctuation
'subsop'      Name.Builtin
'('          Punctuation
'2'           Literal.Number.Integer
'='           Operator
'"'           Punctuation
'integrate'   Name
'"'           Punctuation
'('          Punctuation
'op'          Name.Builtin
'('          Punctuation
'2'           Literal.Number.Integer
','
      Operator
'b'           Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'x'           Name
','          Operator
' '          Text.Whitespace
'loops'       Name
')'          Punctuation
','          Operator
'b'           Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'x'           Name
'='           Operator
'h'           Name
')'          Punctuation
'\n                  ' Text.Whitespace
'end'         Keyword
' '          Text.Whitespace
'proc'        Keyword
','          Operator
'\n                  ' Text.Whitespace
'op'          Name.Builtin
'('          Punctuation
'2'           Literal.Number.Integer
','          Operator
'm'           Name
```

```
'))'        Punctuation
','         Operator
'\n         ' Text.Whitespace
'm'         Name
');'        Punctuation
'\n    '    Text.Whitespace
'elif'      Keyword
' '         Text.Whitespace
'm'         Name
' '         Text.Whitespace
'::'
        Operator
' '         Text.Whitespace
'"'         Punctuation
'LO'        Name
'('         Punctuation
'name'      Name
','         Operator
' '         Text.Whitespace
'anything'  Name
')'         Punctuation
'"'         Punctuation
' '         Text.Whitespace
'then'      Keyword
'\n     '   Text.Whitespace
'eval'      Name.Builtin
'('         Punctuation
'op'        Name.Builtin
'('         Punctuation
'2'         Literal.Number.Integer
','         Operator
'm'         Name
')'         Punctuation
','         Operator
' '         Text.Whitespace
'op'        Name.Builtin
'('         Punctuation
'1'         Literal.Number.Integer
','         Operator
'm'         Name
')'         Punctuation
' '         Text.Whitespace
'='         Operator
' '         Text.Whitespace
'h'         Name
')'         Punctuation
'\n    '    Text.Whitespace
'elif'      Keyword
```

' ' Text.Whitespace
'm'
  Name
' ' Text.Whitespace
'::' Operator
' ' Text.Whitespace
""" Punctuation
'Plate' Name
'(' Punctuation
'nonnegint' Name
',' Operator
' ' Text.Whitespace
'name' Name
',' Operator
' ' Text.Whitespace
'anything' Name
')' Punctuation
""" Punctuation
' ' Text.Whitespace
'then' Keyword
'\n ' Text.Whitespace
'# Unroll Plate when the bound is known. We unroll Plate here (instead\n' Comment.Single

' ' Text.Whitespace
'# of unrolling Ints in reduce, for example) because we have no other\n' Comment.Single

' ' Text.Whitespace
"# way to integrate certain Plates, namely those whose bodies' control\n" Comment.Single

' ' Text.Whitespace
'# flows depend on the index.\n' Comment.Single

' ' Text.Whitespace
'x' Name
' ' Text.Whitespace
':=' Operator
' ' Text.Whitespace
'mk_sym'
  Name
'(' Punctuation
""" Punctuation
'pp' Name
""" Punctuation
',' Operator
' ' Text.Whitespace
'h' Name
');' Punctuation
'\n ' Text.Whitespace

```
'x'         Name
' '         Text.Whitespace
':='        Operator
' '         Text.Whitespace
'['         Punctuation
'seq'       Name.Builtin
'('         Punctuation
'cat'       Name.Builtin
'('         Punctuation
'x'         Name
','         Operator
'i'         Name
')'         Punctuation
','         Operator
' '         Text.Whitespace
'i'         Name
'='         Operator
'0'         Literal.Number.Integer
'..'        Punctuation
'op'        Name.Builtin
'('         Punctuation
'1'         Literal.Number.Integer
','         Operator
'm'         Name
')'         Punctuation
'-'         Operator
'1'         Literal.Number.Integer
')];'       Punctuation
'\n    '    Text.Whitespace
'if'
        Keyword
' '         Text.Whitespace
'op'        Name.Builtin
'('         Punctuation
'1'         Literal.Number.Integer
','         Operator
'm'         Name
')'         Punctuation
' '         Text.Whitespace
'='         Operator
' '         Text.Whitespace
'0'         Literal.Number.Integer
' '         Text.Whitespace
'then'      Keyword
'\n      '  Text.Whitespace
'res'       Name
' '         Text.Whitespace
':='        Operator
```

```
' '          Text.Whitespace
'undefined'   Name
';'          Punctuation
'\n      '    Text.Whitespace
'else'        Keyword
'\n        '  Text.Whitespace
'if'         Keyword
' '          Text.Whitespace
'op'          Name.Builtin
'('          Punctuation
'1'           Literal.Number.Integer
','          Operator
'm'           Name
')'          Punctuation
' '          Text.Whitespace
'='           Operator
' '          Text.Whitespace
'1'           Literal.Number.Integer
' '          Text.Whitespace
'then'
        Keyword
'\n          ' Text.Whitespace
'res'         Name
' '          Text.Whitespace
':='          Operator
' '          Text.Whitespace
'op'          Name.Builtin
'('          Punctuation
'1'           Literal.Number.Integer
','          Operator
'x'           Name
');'         Punctuation
'\n        '  Text.Whitespace
'else'        Keyword
'\n           ' Text.Whitespace
'res'         Name
' '          Text.Whitespace
':='          Operator
' '          Text.Whitespace
'idx'         Name
'('          Punctuation
'x'           Name
','          Operator
'op'          Name.Builtin
'('          Punctuation
'2'           Literal.Number.Integer
','          Operator
'm'           Name
```

```
'));'        Punctuation
'\n'         Text.Whitespace

'#         res := piecewise(seq(op([op(2,m)=i-1, op(i,x)]), i=2..op(1,m)),\n' Comment.Single

'#                    op(1,x));\n' Comment.Single

'       '    Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'if'
         Keyword
';'          Punctuation
'\n       '  Text.Whitespace
'res'        Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'mk_idx'     Name
'('          Punctuation
'res'        Name
','          Operator
' '          Text.Whitespace
'loops'      Name
');'         Punctuation
'\n     '    Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'if'         Keyword
';'          Punctuation
'\n     '    Text.Whitespace
'res'        Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'applyintegrand' Name
'('          Punctuation
'h'          Name
','          Operator
' '          Text.Whitespace
'mk_ary'     Name
'('          Punctuation
"""          Punctuation
'ary'        Name
"""          Punctuation
'('          Punctuation
'op'         Name.Builtin
'('          Punctuation
```

'1' Literal.Number.Integer
',' Operator
'm' Name
')'
Punctuation
',' Operator
' ' Text.Whitespace
'op' Name.Builtin
'(' Punctuation
'2' Literal.Number.Integer
',' Operator
'm' Name
')' Punctuation
',' Operator
' ' Text.Whitespace
'res' Name
')' Punctuation
',' Operator
' ' Text.Whitespace
'loops' Name
'));' Punctuation
'\n ' Text.Whitespace
'for' Keyword
' ' Text.Whitespace
'i' Name
' ' Text.Whitespace
'from' Keyword
' ' Text.Whitespace
'op' Name.Builtin
'(' Punctuation
'1' Literal.Number.Integer
',' Operator
'm' Name
')' Punctuation
' ' Text.Whitespace
'to' Keyword
' ' Text.Whitespace
'1' Literal.Number.Integer
' ' Text.Whitespace
'by' Keyword
' ' Text.Whitespace
'-' Operator
'1'
Literal.Number.Integer
' ' Text.Whitespace
'do' Keyword
'\n ' Text.Whitespace
'res' Name

```
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'integrate'  Name
'('          Punctuation
'eval'       Name.Builtin
'('          Punctuation
'op'         Name.Builtin
'('          Punctuation
'3'          Literal.Number.Integer
','          Operator
'm'          Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'op'         Name.Builtin
'('          Punctuation
'2'          Literal.Number.Integer
','          Operator
'm'          Name
')'          Punctuation
'='          Operator
'i'          Name
'-'          Operator
'1'          Literal.Number.Integer
')'          Punctuation
','          Operator
'\n                    ' Text.Whitespace
'Integrand'  Name
'('          Punctuation
'op'         Name.Builtin
'('          Punctuation
'i'          Name
','
         Operator
'x'          Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'res'        Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'loops'      Name
');'         Punctuation
'\n     '    Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
```

```
'do'          Keyword
';'           Punctuation
'\n     '     Text.Whitespace
'res'         Name
'\n    '      Text.Whitespace
'elif'        Keyword
' '           Text.Whitespace
'm'           Name
' '           Text.Whitespace
'::'          Operator
' '           Text.Whitespace
'"'           Punctuation
'Plate'       Name
'('           Punctuation
'anything'    Name
','           Operator
' '           Text.Whitespace
'name'        Name
','           Operator
' '           Text.Whitespace
'anything'    Name
')'           Punctuation
'"'           Punctuation
' '           Text.Whitespace
'then'        Keyword
'\n     '     Text.Whitespace
'integrate'
   Name
'('           Punctuation
'op'          Name.Builtin
'('           Punctuation
'3'           Literal.Number.Integer
','           Operator
'm'           Name
')'           Punctuation
','           Operator
' '           Text.Whitespace
'h'           Name
','           Operator
' '           Text.Whitespace
'['           Punctuation
'op'          Name.Builtin
'('           Punctuation
'2'           Literal.Number.Integer
','           Operator
'm'           Name
')'           Punctuation
'='           Operator
```

```
'0'          Literal.Number.Integer
'..'         Punctuation
'op'         Name.Builtin
'('          Punctuation
'1'          Literal.Number.Integer
','          Operator
'm'          Name
')'          Punctuation
'-'          Operator
'1'          Literal.Number.Integer
','          Operator
' '          Text.Whitespace
'op'         Name.Builtin
'('          Punctuation
'loops'      Name
')])'        Punctuation
'\n    '     Text.Whitespace
'elif'
       Keyword
' '          Text.Whitespace
'm'          Name
' '          Text.Whitespace
'::'         Operator
' '          Text.Whitespace
'"'          Punctuation
'Context'    Name
'('          Punctuation
'anything'   Name
','          Operator
' '          Text.Whitespace
'anything'   Name
')'          Punctuation
'"'          Punctuation
' '          Text.Whitespace
'then'       Keyword
'\n      '   Text.Whitespace
'applyop'    Name
'('          Punctuation
'integrate'  Name
','          Operator
' '          Text.Whitespace
'2'          Literal.Number.Integer
','          Operator
' '          Text.Whitespace
'm'          Name
','          Operator
' '          Text.Whitespace
'h'          Name
```

```
','          Operator
' '          Text.Whitespace
'loops'      Name
')'          Punctuation
'\n    '     Text.Whitespace
'elif'       Keyword
' '          Text.Whitespace
'h'          Name
' '          Text.Whitespace
'::'         Operator
' '
        Text.Whitespace
'appliable'   Name
' '          Text.Whitespace
'then'       Keyword
'\n      '   Text.Whitespace
'x'          Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'gensym'     Name
'('          Punctuation
"""          Punctuation
'xa'         Name
"""          Punctuation
');'         Punctuation
'\n      '   Text.Whitespace
"""          Punctuation
'integrate'   Name
"""          Punctuation
'('          Punctuation
'm'          Name
','          Operator
' '          Text.Whitespace
'Integrand'   Name
'('          Punctuation
'x'          Name
','          Operator
' '          Text.Whitespace
'h'          Name
'('          Punctuation
'x'          Name
'))'         Punctuation
','          Operator
' '          Text.Whitespace
'loops'      Name
')'          Punctuation
'\n    '     Text.Whitespace
```

```
'else'        Keyword
'\n     '    Text.Whitespace
"""           Punctuation
'procname'    Name
'(_'
          Punctuation
'passed'      Name
')'           Punctuation
"""           Punctuation
'\n    '      Text.Whitespace
'end'         Keyword
' '           Text.Whitespace
'if'          Keyword
'\n  '        Text.Whitespace
'end'         Keyword
' '           Text.Whitespace
'proc'        Keyword
';'           Punctuation
'\n\n\n  '    Text.Whitespace
'local'       Keyword
'\n  '        Text.Whitespace
'integrate_known' Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'proc'        Keyword
'('           Punctuation
'make'        Name
','           Operator
' '           Text.Whitespace
'makes'       Name
','           Operator
' '           Text.Whitespace
'var'         Name
','           Operator
' '           Text.Whitespace
'm'           Name
','           Operator
' '           Text.Whitespace
'h'           Name
','           Operator
' '           Text.Whitespace
'loops'       Name
' '           Text.Whitespace
'::'          Operator
'
 '           Text.Whitespace
'list'        Name
```

```
'('          Punctuation
'name'       Name
'='          Operator
'range'      Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'$'          Operator
')'          Punctuation
'\n    '     Text.Whitespace
'local'      Keyword
' '          Text.Whitespace
'x'          Name
','          Operator
' '          Text.Whitespace
'dens'       Name
','          Operator
' '          Text.Whitespace
'bds'        Name
';'          Punctuation
'\n    '     Text.Whitespace
'x'          Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'mk_sym'     Name
'('          Punctuation
'var'        Name
','          Operator
' '          Text.Whitespace
'h'          Name
');'         Punctuation
'\n    '     Text.Whitespace
'dens'       Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'density'    Name
'['          Punctuation
'op'
         Name.Builtin
'('          Punctuation
'0'          Literal.Number.Integer
','          Operator
'm'          Name
')]('        Punctuation
'op'         Name.Builtin
'('          Punctuation
```

```
'm'          Name
'));'        Punctuation
'\n    '     Text.Whitespace
'bds'        Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'bounds'     Name
'['          Punctuation
'op'         Name.Builtin
'('          Punctuation
'0'          Literal.Number.Integer
','          Operator
'm'          Name
')]('        Punctuation
'op'         Name.Builtin
'('          Punctuation
'm'          Name
'));'        Punctuation
'\n    '     Text.Whitespace
'if'         Keyword
' '          Text.Whitespace
'loops'      Name
' '          Text.Whitespace
'='          Operator
' '          Text.Whitespace
'[]'         Punctuation
' '          Text.Whitespace
'then'       Keyword
'\n      '   Text.Whitespace
'make'       Name
'('
          Punctuation
'dens'       Name
'('          Punctuation
'x'          Name
')'          Punctuation
' '          Text.Whitespace
'*'          Operator
' '          Text.Whitespace
'applyintegrand' Name
'('          Punctuation
'h'          Name
','          Operator
' '          Text.Whitespace
'x'          Name
')'          Punctuation
','          Operator
```

```
' '          Text.Whitespace
'x'          Name
' '          Text.Whitespace
'='          Operator
' '          Text.Whitespace
'bds'        Name
');'         Punctuation
'\n    '     Text.Whitespace
'else'       Keyword
'\n      '   Text.Whitespace
'makes'      Name
'('          Punctuation
'foldl'      Name
'('          Punctuation
'product'    Name
','          Operator
' '          Text.Whitespace
'dens'       Name
'('          Punctuation
'mk_idx'     Name
'('          Punctuation
'x'          Name
','          Operator
'loops'      Name
'))'         Punctuation
','
   Operator
' '          Text.Whitespace
'op'         Name.Builtin
'('          Punctuation
'loops'      Name
'))'         Punctuation
'\n            ' Text.Whitespace
'*'          Operator
' '          Text.Whitespace
'applyintegrand' Name
'('          Punctuation
'h'          Name
','          Operator
' '          Text.Whitespace
'x'          Name
')'          Punctuation
','          Operator
'\n           ' Text.Whitespace
'x'          Name
','          Operator
' '          Text.Whitespace
'bds'        Name
```

```
','          Operator
' '          Text.Whitespace
'loops'      Name
')'          Punctuation
'\n    '     Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'if'         Keyword
';'          Punctuation
'\n  '       Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'proc'       Keyword
';'          Punctuation
'\n'         Text.Whitespace

'end'        Keyword
' '          Text.Whitespace
'module'     Keyword
';'
          Punctuation
' '          Text.Whitespace
'#toLO\n'    Comment.Single
# Teach Maple (through depends and eval) about our new binding forms.
# forall bind from 1st arg to 2nd arg.
# Ints,Sums,ints,sums bind from 2nd arg to 1st arg, and also from each element
#   of the 4th arg to the other elements on the left and to the 3rd arg.

`depends/forall` := proc(bvar, pred, x, $)
 depends(pred, x minus convert(bvar, 'set'))
end proc:

`depends/Ints` := proc(body, bvar, rng, loops, x, y, $)
 local xx, i;
 if nargs = 5 then
   xx := x; # y is ununsed and x lists the variables to look for
 else
   xx := y; # x is some KB and y lists the variables to look for
   if depends(x, y) then return true end if;
 end if;
 # don't remove bvar from xx!
 if depends(body, xx minus {bvar}) then return true end if;
 for i from nops(loops) to 1 by -1 do
   if depends(op([i,2],loops), xx) then return true end if;
   xx := xx minus {op([i,1],loops)};
 end do;
 depends(rng, xx)
end proc:
```

```
`depends/Sums` := eval(`depends/Ints`):
`depends/ints` := eval(`depends/Ints`):
`depends/sums`
 := eval(`depends/Ints`):

`eval/forall` := proc(e, eqs, $)
 local bvar, pred;
 bvar, pred := op(e);
 eval(op(0,e), eqs)(BindingTools:-generic_evalat(bvar, pred, eqs))
end proc:

`eval/Ints` := proc(e, eqs, $)
 local body, bvar, rng, loops, n, i;
 body, bvar, rng, loops := op(1..4, e);
 bvar, body := BindingTools:-generic_evalat(bvar, body, eqs);
 eval(op(0,e), eqs)(body, bvar,
                BindingTools:-generic_evalatstar(rng, loops, eqs),
                op(5..-1,e))
end proc:
`eval/Sums` := eval(`eval/Ints`):
`eval/ints` := eval(`eval/Ints`):
`eval/sums` := eval(`eval/Ints`):

`eval/Int` := proc(e, eqs, $)
 local body, bound, bvar;
 body, bound := op(1..2, e);
 if bound :: name then
   bound, body := BindingTools:-generic_evalat(bound, body, eqs);
 elif bound :: `=` then
   bvar := lhs(bound);
   bvar, body := BindingTools:-generic_evalat(bvar, body, eqs);
   bound := bvar = eval(rhs(bound), eqs);
 else
   body, bound := BindingTools:-generic_evalatstar(body,
 bound, eqs);
 end if;
 eval(op(0,e), eqs)(body, bound, op(eval([op(3..-1,e)], eqs)))
end proc:
`eval/Sum`     := eval(`eval/Int`):
`eval/Product` := eval(`eval/Int`):
`eval/int`     := eval(`eval/Int`):
`eval/sum`     := eval(`eval/Int`):
`eval/product` := eval(`eval/Int`):

################################################################################

Loop := module ()
 option package;
```

```
local intssums, enter_piecewise, wrap,
      t_peel, do_peel, do_split, do_graft, do_rebase_lower, do_rebase_upper,
      Binder, Stmt, t_binder, t_stmt, t_exp,
      ModuleLoad;
export
   # These first few are smart constructors (for themselves):
       ints, sums,
   # while these are "proper functions"
       mk_HArray, genLoop, unproducts, unproduct,
       peel, split, graft, rebase_lower, rebase_upper, Print;
# these names are not assigned (and should not be).  But they are
# used as global names, so document that here.
global Ints, Sums, csgn, sum, signum;
 uses Hakaru, KB, Utilities;

t_binder := 'Binder(identical(product, Product, sum, Sum), t_kb)';
t_stmt   := 'Stmt(anything, list, list)';
t_exp    := '{Stmt(identical(exp), [], []),
             Stmt(identical(`^`), [anything], [])}';

ints := proc() intssums('ints', 'int', _passed) end proc;
sums := proc() intssums('sums', 'sum', _passed) end proc;

Print := proc(kind::identical(Ints,Sums,ints,sums),e,v::name,r0::range,rs::list(name=range),$)
  local k;
  k := StringTools[Capitalize](StringTools[Chop](convert(kind,string)));
  k := parse(cat("`print/",eval(k),"`"));
  eval(k)(e,v[op(rs)]=r0);
end proc;

intssums := proc(makes::name, make::name,
                e::anything, x::name, rr::range, ll::list(name=range),
                kb::t_kb:=empty, $)
  local t, r, l, kb2, w0, pp, i;
  t := `if`(make=int, HReal(open_bounds(rr)), HInt(closed_bounds(rr)));
  r, l, kb2 := genLoop(rr, ll, kb, 'Integrand'(x,e));
  w0, pp := unproducts(e, x, l,
kb2);
  if depends(w0, x) then
    'makes(e, x, rr, ll)'
  else
    pp := 'make'(pp, x=r);
    for i in l do pp := 'product'(pp, i) end do;
    NewSLO:-simplify_factor_assuming(w0 * pp, kb);
  end if
end proc;

mk_HArray := proc(t::t_type, loops::list(name=range), $)
```

```
  local res, i;
  res := t;
  for i in loops do res := HArray(res) end do;
  res
end proc;

genLoop := proc(e, loops::list(name=range), kb::t_kb)
  local kb1, rng, ind, do_subst, i;
  kb1 := kb;
  rng := table();
  ind := table();
  do_subst := e -> foldl(((e,eq) -> eval(e, op([lhs(eq),1],loops)=rhs(eq))),
                    e, entries(ind, 'pairs'));
  for i from nops(loops) to 1 by -1 do
    rng[i] := do_subst(op([i,2],loops));
    ind[i], kb1 := genType(op([i,1],loops), HInt(closed_bounds(rng[i])),
                      kb1, _rest);
  end do;
  do_subst(e), zip(`=`, [entries(ind, 'nolist')],
                   [entries(rng, 'nolist')]), kb1
end
proc;

unproducts := proc(w, x::name, loops::list(name=range), kb::t_kb, $)
  local w0, pp, j, w1, w2, loop;
  w0 := 1;
  pp := w;
  for j from nops(loops) to 1 by -1 do
    w1, pp := op(unproduct(pp, x, op(j,loops), [], `*`, kb, kb));
    # separate out each of the factors in w1, as they might have different
    # variable dependencies, which can be exploited by other routines
    w2 := convert(w1, 'list', '`*`');
    for loop in [op(j+1..-1, loops)] do
      w2 := map((w -> product(eval(w, x=idx(x,lhs(loop))), loop)), w2);
    end do;
    w0 := w0 * `*`(op(w2));
    # w0 := w0 * foldl(product, w1, op(j+1..-1, loops));
  end do;
  # Rewrite ... * piecewise(i<=kk-1, xs^2, 1)
  #      to ... * xs ^ (2*piecewise(i<=kk-1, 1))
  # because the latter is easier to integrate and recognize with respect to xs
  pp := for_poly(pp, # TODO: move this rewrite into eval_factor (then remove for_poly?)?
    proc (p)
      local n, s, r;
      if p :: 'And(specfunc(piecewise),
anyfunc(freeof(x), anything, 1))' then
        n := indets(op(1,p),name);
        if op(2,p) :: {'exp(anything)', '`^`'('freeof'(n),'anything')} then
```

```
        s, r := selectremove(depends, convert(op([2,-1],p),'list','`*`'), n);
        subsop(-1 = `*`(piecewise(op(1,p), `*`(op(s))), op(r)), op(2,p))
      else
        s, r := selectremove(depends, convert(op(2,p),'list','`*`'), n);
        `*`(op(r)) ^ piecewise(op(1,p), 1)
          * `if`(nops(s) > 0, piecewise(op(1,p), `*`(op(s)), 1), 1)
      end if
    else
      p
    end if
  end proc);
 w0, pp
end proc;

# Find [w1,pp] so that
#   wrap(heap,w,mode,kb1,kb0)
#   = w1*product(eval(pp,var=idx(var,lhs(loop))),loop)
# making w1 depend on var as little as possible.
# The flag "mode" should be `+` if "heap" contains an entry of the form
# t_exp, or `*` otherwise.
unproduct := proc(w, var::name, loop::(name=range),
                heap::list, mode::identical(`*`,`+`),
                 kb1::t_kb, kb0::t_kb, $)
 local ind, res, dummy, kb, kbThen, i, w1, pp, s, r, x;
 if not depends(w, var) then
  return [wrap(heap, w, mode, kb1, kb0), 1]
 end if;
 # The `..' (indices) of all occurences of `idx(var,..)'
 ind := map2(op, 2, indets(w, 'idx(identical(var), anything)'));
 if nops(ind) = 1 then
  ind := op(ind);
  # Make sure ind contains no bound variables before lifting it!
  # So, check that "extract using indets" and "rename using eval" commute.
  s := indets(ind, 'name');
  s := map(proc(x,$) local y; `if`(depends(ind,x), x=y, NULL) end proc, s);
  if indets(eval(w, s), 'idx(identical(var), anything)')
          = {idx(var, eval(ind, s))} then
    # use kb as a local context, and 'solve' for the innermost bound var
    #   used in ind.
    kb  := assert(lhs(loop)=ind, kb1); # BUG! bijectivity assumed!
    # if the assertion makes the KB false, it isn't needed(?)
     ASSERT(type(kb, t_kb),
      sprintf("assert(%a,%a) produced a false KB!\n", lhs(loop)=ind,kb1)):
    res := subs(idx(var,ind) = idx(var,lhs(loop)), w);
    res := wrap(heap, res, mode, kb, kb0);
    res := subs(idx(var,lhs(loop))=dummy, res);
    if not depends(res, var) then
      return [1, subs(dummy=var, res)]
```

```
      end if
    end if
  end if;
  # distribute the unproduct over each part
  if w :: mode then
    res := map(unproduct, `if`(mode=`*`, list_of_mul(w), [op(w)]),
              var, loop, heap, mode, kb1, kb0);
    return [`*`(op(map2(op,1,res))), `*`(op(map2(op,2,res)))]
  end if;
  # for piecewise, just map right in (using KB for context tracking)
  if w :: 'specfunc(piecewise)' then
    kb := kb1;
    for i from 1 to nops(w) do
      if i :: even then
        kbThen := assert(    op(i-1,w) , kb);
        # accumulate the rest, regardless
        kb     := assert(Not(op(i-1,w)), kb);

        # if kbThen
is invalid, deal appropriately
        if not type(kbThen,t_kb) then next end if;

        w1[i], pp[i] := op(unproduct(op(i,w),var,loop,heap,mode,kbThen,kb0));
        # if kb is inconsistent, we're done
        if not type(kb,t_kb) then break end if;
      elif i = nops(w) then
        if not type(kb,t_kb) then next end if;
        w1[i], pp[i] := op(unproduct(op(i,w),var,loop,heap,mode,kb    ,kb0))
      end if
    end do;
    return [`*`(entries(w1,'nolist')), `*`(entries(pp,'nolist'))]
  end if;
  if mode = `*` then
    if w :: (anything^freeof(var)) then
      return unproduct(op(1,w), var, loop,
                [op(heap), Stmt(`^`, [], [op(2,w)])], `*`, kb1, kb0)
    elif w :: exp(anything) then
      return unproduct(op(1,w), var, loop,
                [op(heap), Stmt(exp, [], [])], `+`, kb1, kb0)
    elif w :: (freeof(var)^anything) then
      return unproduct(op(2,w), var, loop,
                [op(heap), Stmt(`^`,
[op(1,w)], [])], `+`, kb1, kb0)
    end if
  end if;
  if mode = `+` and w :: `*` then
    s, r := selectremove(depends, w, var);
    if s :: `*` then
```

```
      # Nonlinear %1 (time to reread kiselyov-lifted?)
    else
      return unproduct(s, var, loop,
                    [op(heap), Stmt(`*`, [], [r])], `+`, kb1, kb0)
    end if
  end if;
  if w :: And(specfunc(`if`(mode = `*`, {product, Product}, {sum, Sum})),
            anyfunc(anything, name=range(freeof(var)))) then
    x, kb := genType(op([2,1],w), HInt(closed_bounds(op([2,2],w))), kb1,
                  w, var, loop, heap);
    return unproduct(eval(op(1,w), op([2,1],w)=x), var, loop,
                  [op(heap), Binder(op(0,w), kb1)], mode, kb, kb0)
  end if;
  if mode = `*` and w :: '{`+`, specfunc({sum, Sum})}' then
    # Maybe this w is one of those big sums involving products that are
    # always equal to 1, left behind by the density of Categorical
    w1 := graft(split(peel(w)));
     w1 := combine(rebase_upper(w1));
    w1 := combine(rebase_lower(w1));
    return [wrap(heap, w1, mode, kb1, kb0), 1]
  end if;
  return [wrap(heap, w, mode, kb1, kb0), 1]
end proc;

enter_piecewise := proc(ee, kb0::t_kb, mode::identical(`*`,`+`), $)
  local e, kb, mo;
  e  := ee;
  kb := kb0;
  mo := mode();
  while e :: 'specfunc(piecewise)' and nops(e) = 3 do
    if op(3,e) = mo then
      kb := assert(op(1,e), kb);
      e := op(2,e);
    elif op(2,e) = mo then
      kb := assert(Not(op(1,e)), kb);
      e := op(3,e);
    else
      break;
    end if;
  end do;
  ASSERT(type(kb,t_kb), "enter_piecewise: KB of piecewise conditions is not valid, so the input piecewise must
not be valid.");
  e, kb
end proc;

# heap is a list of t_binder and t_stmt
# one invariant to maintain:
#  wrap(heap, mode(a,b)) = wrap(heap,a) * wrap(heap,b)
```

```
# Also, a t_binder is a Product/product/Sum/sum.
# And, a t_stmt is a 1-hole
context of a (multiplicative) AST,
#   used for [a ^ hole, hole ^ b, exp(hole), c * hole].

wrap := proc(heap::list, e1, mode1::identical(`*`,`+`),
            kb1::t_kb, kb0::t_kb, $)
  local e, kb, mode, i, entry, rest, var, new_rng, make, logmake,
     dom_spec, w, wPow, wExp, arrrgs;
  e    := e1;
  kb   := kb1;
  mode := mode1;
  for i from nops(heap) to 1 by -1 do
    entry := op(i,heap);
    if entry :: t_binder then
      if not (op(1,entry) in `if`(mode=`+`, {sum,Sum},
                                  {product,Product})) then
        print("Warning: heap mode inconsistency", heap, mode1)
      end if;
      e, kb := enter_piecewise(e, kb, mode);
      rest := kb_subtract(kb, op(2,entry));
      new_rng, rest := selectremove(type, rest,
        {[identical(genType), name, specfunc(HInt)],
         [identical(genLet), name, anything]});
      if not (new_rng :: [list]) then
        error "kb_subtract should return exactly
one gen*"
      end if;
      new_rng := op(new_rng);
      var     := op(2,new_rng);
      if op(1,new_rng) = genType then
        make    := op(1,entry);
        new_rng := range_of_HInt(op(3,new_rng));
      else # op(1,new_rng) = genLet
        make    := eval;
        new_rng := op(3,new_rng);
      end if;
      dom_spec, rest := selectremove(depends,
        map(proc(a::[identical(assert),anything],$) op(2,a) end proc, rest),
        var);

      # Like e := make(piecewise(And(op(dom_spec)), e, mode()), var=new_rng);
      # but try to simplify by pushing the make and the piecewise into e
      (e, w) := selectremove(depends, convert(e, 'list', `*`), var);
      w := `*`(op(w));
      if mode = `*` then
        (wPow, e) := selectremove(type, e, '`^`'('freeof'(var), 'anything'));
```

```
      (wExp, e) := selectremove(type, e, 'exp(anything)');
      wExp := `+`(op(map2(op, 1, wExp)));
      wExp := expand(wExp, op(indets(wExp, function)));
       logmake := proc(t)
        local s, r;
        s, r := selectremove(depends, convert(t, 'list', `*`), var);
        `*`(op(r),
            `if`(make=eval,eval,Sum)
                (piecewise_And(dom_spec, `*`(op(s)), 0), var=new_rng));
      end proc;
      w := `*`( `if`(w = 1, 1, w ^ logmake(1))
             , op(map((f -> op(1,f) ^ logmake(op(2,f))), wPow))
             , `if`(wExp = 0, 1, exp(maptype(`+`,logmake,wExp))) );
    end if;
    e := w * make(piecewise_And(dom_spec, `*`(op(e)), mode()), var=new_rng);

    # `rest' originally comes from `entry', and this reinserts it after some
    # processing. The original KB was valid, so this one should also be valid.
    kb := foldr(assert, op(2,entry), op(rest));
    ASSERT(type(kb,t_kb), "Loop/wrap{t_binder}: rebuilding kb produced contradiction");

  elif entry :: t_stmt then
    # We evaluate arrrgs first, in case op(1,stmt) is an operation (such
as
    # piecewise) that looks ahead at how many arguments it is passed before
    # they are evaluated.
    arrrgs := op(op(2,entry)), e, op(op(3,entry));
    e      := op(1,entry)(arrrgs);
    if entry :: t_exp then
      if mode <> `+` then
        print("Warning: heap mode inconsistency?", heap, mode1)
      end if;
      mode := `*`;
    end if
  else error "Malformed heap entry %1", entry end if
end do;
if mode <> `*` then
  print("Warning: heap mode inconsistency??", heap, mode1)
end if;
e, kb := enter_piecewise(e, kb, mode);
rest := kb_subtract(kb, kb0);
rest := map(proc(a::[identical(assert),anything],$) op(2,a) end proc, rest);
(wExp, e) := selectremove(type, convert(e, 'list', `*`), 'exp(anything)');
wExp := `+`(op(map2(op, 1, wExp)));
wExp := expand(wExp, op(indets(wExp, function)));
logmake := (t -> t * piecewise_And(rest,1,0));
`if`(wExp = 0, 1, exp(maptype(`+`,logmake,wExp)))
```

```
    * piecewise_And(rest,`*`(op(e)),1);
end proc;

# Rewrite product(...piecewise(i+42=lo+42,th,el)...,i=lo..hi)
# to eval(...th...,i=lo)*product(...el...,i=lo+1..hi)
t_peel := 'And(specfunc({sum,Sum,product,Product}),
              anyfunc(anything, name=range))';
peel := proc(e, $)
  subsindets(e, t_peel, do_peel);
end proc;
do_peel := proc(e, $)
  local make, body, x, r, cond, line, test, x0, r0, cond0, here, rest;
  if not (e :: t_peel) then return e end if;
  if   op(0,e) in '{sum    ,Sum    }' then make := `+`;
  elif op(0,e) in '{product,Product}' then make := `*`; end if;
  body, r := op(e);
  x, r    := op(r);
  for cond in indets(body, '{`=`(algebraic),`<`,`<=`}') do
    line := `-`(op(cond));
    if 1 <> degree(line, x) then next end if;
    if cond :: `=` then
      cond0 := true;
      if Testzero(eval(line, x=lhs(r))) then
        x0 := lhs(r); r0 := applyop(`+`, 1, r, 1);
      elif Testzero(eval(line, x=rhs(r))) then

    x0 := rhs(r); r0 := applyop(`-`, 2, r, 1);
      else next end if;
    else
      test := proc(x0, x1, $)
        local res;
        res := evalb(not op(0,cond)(eval(line, x=x1), 0));
        `if`(res in '{true,false}'
              and evalb(op(0,cond)(eval(line, x=x0), 0)) = res,
            res,
            FAIL)
      end proc;
      cond0 := test(lhs(r), lhs(r)+1);
      if cond0 <> FAIL then
        x0 := lhs(r); r0 := applyop(`+`, 1, r, 1);
      else
        cond0 := test(rhs(r), rhs(r)-1);
        if cond0 <> FAIL then
          x0 := rhs(r); r0 := applyop(`-`, 2, r, 1);
        else next end if;
      end if;
    end if;
    here := subs(cond =          cond0 , body);
```

```
    rest := subs(cond = evalb(not cond0), body);
    return make(eval(here, x=x0), do_peel(eval(subsop(1=rest, [2,2]=r0, e))));
  end do;
  return e;
end proc;

# Expand sum(a*(b-c),q) to sum(a*b,q)-sum(a*c,q)
split := proc(e, $)
  subsindets(e, 'And(specfunc({sum,Sum}),
                anyfunc(And(`*`,Not(`*`(Not(`+`)))),name=anything))',
            do_split);
end proc;
do_split := proc(e, $)
  local terms, x;
  terms := convert(expand(op(1,e), op(indets(op(1,e), function))),
              'list', `+`);
  x := op([2,1],e);
  `+`(op(map(proc(term, $)
    local s, r;
    s, r := selectremove(depends, convert(term, 'list', `*`), x);
    `*`(op(r), subsop(1=`*`(op(s)),e))
  end proc, terms)))
end proc;

# Simplify f(lo-1)*product(f(i),i=lo..hi) to product(f(i),i=lo-1..hi)
graft := proc(e, $)
  subsindets(e, 'Or(And(`*`,Not(`*`(Not(specfunc({product,Product})))),
              And(`+`,Not(`+`(Not(specfunc({sum    ,Sum    }))))))',
            do_graft);
end proc;
do_graft := proc(e, $)
  local produce, factors, i, j;
  produce := `if`(e::`*`, '{product,Product}',
                  '{sum    ,Sum    }');
  factors := sort(convert(e,'list'),

        key = (factor -> -numboccur(factor,produce)));
  for i from nops(factors) to 2 by -1 do
    for j from i-1 to 1 by -1 do
      if op(j,factors) :: 'And'('specfunc'(produce),
                        'anyfunc(anything,name=range)') then
        if Testzero(op(i,factors) - eval(op([j,1],factors),
            op([j,2,1],factors)=op([j,2,2,1],factors)-1)) then
          factors := subsop(i=NULL,applyop(`-`,[j,2,2,1],factors,1));
          break
        elif Testzero(op(i,factors) - eval(op([j,1],factors),
            op([j,2,1],factors)=op([j,2,2,2],factors)+1)) then
          factors := subsop(i=NULL,applyop(`+`,[j,2,2,2],factors,1));
```

```
          break
        end if
      end if
    end do
  end do;
  op(0,e)(op(factors))
end proc;

# Normalize sum(f(i),i=2..hi) to sum(f(i+2),i=0..hi-2)
rebase_lower := proc(e, $)
  subsindets(e, 'And(specfunc({sum,Sum,product,Product}),
                  anyfunc(anything,

        name=Not({0,SymbolicInfinity,undefined})..anything))',
              do_rebase_lower);
end proc;
do_rebase_lower := proc(e, $)
  subsop([2,2,1]=0,
        applyop(`-`,
              [2,2,2],
              applyop(eval, 1, e, op([2,1],e)=op([2,1],e)+op([2,2,1],e)),
              op([2,2,1],e)))
end proc;

# Normalize sum(f(i),i=lo..2) to sum(f(i+2),i=lo-2..0)
rebase_upper := proc(e, $)
  subsindets(e, 'And(specfunc({sum,Sum,product,Product}),
                  anyfunc(anything,
                    name=anything..Not({0,SymbolicInfinity,undefined})))',
              do_rebase_upper);
end proc;
do_rebase_upper := proc(e, $)
  subsop([2,2,2]=0,
        applyop(`-`,
              [2,2,1],
              applyop(eval, 1, e, op([2,1],e)=op([2,1],e)+op([2,2,2],e)),
              op([2,2,2],e)))
end proc;

ModuleLoad := proc($)
  # Override csgn to work a little bit harder on piecewise and sum
  # (to get rid
of csgn(1/2+1/2*sum(piecewise(...,1,0),...))
  #  produced by int on a Gaussian mixture model)
  unprotect(csgn);
  csgn := overload([
    # Handle if the csgn of a piecewise doesn't depend on which branch
    proc(a :: specfunc(piecewise), $)
```

```
      option overload;
      local r, i;
      r := {seq(`if`(i::even or i=nops(a), csgn(op(i,a)), NULL),
              i=1..nops(a))};
      if nops(r)=1 then return op(r) end if;
      if not assigned(_Envsignum0) then
        r := r minus {0};
        if nops(r)=1 then return op(r) end if;
      end if;
      error "invalid input: cannot csgn %1", a;
    end proc,
    # Handle if the csgn of a sum doesn't depend on the bound variable
    proc(a :: And(specfunc({sum, Sum}), anyfunc(anything, name=range)), $)
      option overload;
      local r;
      r := csgn(op(1,a));
      if not depends(r,op([2,1],a)) then
        return signum(op([2,2,2],a)+1-op([2,2,1],a)) * r
      end if;
      error
"invalid input: cannot csgn %1", a;
    end proc,
    csgn]);
  protect(csgn);

  # Do the same to signum.
  unprotect(signum);
  signum := overload([
    # Handle if the signum of a piecewise doesn't depend on which branch
    proc(a :: specfunc(piecewise), $)
      option overload;
      local r, i;
      r := {seq(`if`(i::even or i=nops(a), signum(op(i,a)), NULL),
              i=1..nops(a))};
      if nops(r)=1 then return op(r) end if;
      if not assigned(_Envsignum0) then
        r := r minus {0};
        if nops(r)=1 then return op(r) end if;
      end if;
      error "invalid input: cannot signum %1", a;
    end proc,
    # Handle if the signum of a sum doesn't depend on the bound variable
    proc(a :: And(specfunc({sum, Sum}), anyfunc(anything, name=range)), $)
      option overload;
      local r;
      r := signum(op(1,a));
      if not depends(r,op([2,1],a)) then
        return signum(op([2,2,2],a)+1-op([2,2,1],a))
```

```
 * r
      end if;
      error "invalid input: cannot signum %1", a;
    end proc,
    signum]);
  protect(signum);

  # Override sum to fail faster
  unprotect(sum);
  sum := overload([
    proc(f :: Not({`+`,`+`^integer}),
        k :: name=And(range,Not(range(rational))), $)
      option overload;
      if not (`-`(op(rhs(k))) :: 'rational')
        and not (subsindets(f, 'anything^integer', f->op(1,f))
                :: '{`+`,And(`*`,Not(`*`(Not(`+`))))}')
        and depends(indets(f, '{specfunc(idx), specindex(idx)}'), op(1,k))
      then
        'procname(_passed)'
      else
        error "invalid input: cannot fast-fail sum(%1, %2)", _passed
      end if
    end proc,
    sum]);
  protect(sum);

  :-`print/Ints` := curry(thismodule:-Print,Ints);
  :-`print/Sums` := curry(thismodule:-Print,Sums);
  :-`print/ints` := curry(thismodule:-Print,ints);
  :-`print/sums` := curry(thismodule:-Print,sums);

 end proc;
 ModuleLoad():
end
 module; # Loop
'# New ports collection makefile for:    python25\n' Comment

'# Date created:         3 July 2003\n' Comment

'# Whom:                 Hye-Shik Chang <perky@FreeBSD.org>\n' Comment

'#\n'        Comment

'# $FreeBSD: ports/lang/python25/Makefile,v 1.145 2007/10/03 23:22:04 edwin Exp $\n' Comment

'\n'         Text.Whitespace

'PORTNAME'    Name.Variable
```

```
'='          Operator
'\t'         Text.Whitespace
'python25'   Text
'\n'         Text.Whitespace

'PORTVERSION' Name.Variable
'='          Operator
'\t'         Text.Whitespace
'2'          Literal.Number
'.5.1'       Text
'\n'         Text.Whitespace

'CATEGORIES'  Name.Variable
'='          Operator
'\t'         Text.Whitespace
'lang'       Text
' '          Text.Whitespace
'python'     Text
' '          Text.Whitespace
'ipv6'       Text
'\n'         Text.Whitespace

'MASTER_SITES' Name.Variable
'='          Operator
'\t'         Text.Whitespace
'${'         Literal.String.Interpol
'PYTHON_MASTER_SITES' Name.Variable
'}'
         Literal.String.Interpol
'\n'         Text.Whitespace

'MASTER_SITE_SUBDIR' Name.Variable
'='          Operator
'\t'         Text.Whitespace
'${'         Literal.String.Interpol
'PYTHON_MASTER_SITE_SUBDIR' Name.Variable
'}'          Literal.String.Interpol
'\n'         Text.Whitespace

'DISTFILES'   Name.Variable
'='          Operator
'\t'         Text.Whitespace
'${'         Literal.String.Interpol
'PYTHON_DISTFILE' Name.Variable
'}'          Literal.String.Interpol
'\n'         Text.Whitespace

'\n'         Text.Whitespace
```

```
'MAINTAINER'  Name.Variable
'='           Operator
'\t'          Text.Whitespace
'python@FreeBSD.org' Text
'\n'          Text.Whitespace

'COMMENT'     Name.Variable
'?='          Operator
'\t'          Text.Whitespace
'An'          Text
' '           Text.Whitespace
'interpreted' Text
' '           Text.Whitespace
'object-oriented' Text
' '           Text.Whitespace
'programming' Text
' '           Text.Whitespace
'language'    Text
'\n'
          Text.Whitespace

'\n'          Text.Whitespace

'DIST_SUBDIR' Name.Variable
'='           Operator
'\t'          Text.Whitespace
'python'      Text
'\n'          Text.Whitespace

'WRKSRC'      Name.Variable
'='           Operator
'\t\t'        Text.Whitespace
'${'          Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}'           Literal.String.Interpol
'/portbld.static' Text
'\n'          Text.Whitespace

'PATCH_WRKSRC' Name.Variable
'='           Operator
'\t'          Text.Whitespace
'${'          Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}'           Literal.String.Interpol
'\n'          Text.Whitespace

'GNU_CONFIGURE' Name.Variable
```

```
'='          Operator
'\t'         Text.Whitespace
'yes'        Text
'\n'         Text.Whitespace

'CONFIGURE_TARGET' Name.Variable
'='          Operator
'\t'         Text.Whitespace
'--build'    Text
'='          Operator
'${'         Literal.String.Interpol
'MACHINE_ARCH' Name.Variable
'}'          Literal.String.Interpol
'-portbld-freebsd'
 Text
'${'         Literal.String.Interpol
'OSREL'      Name.Variable
'}'          Literal.String.Interpol
'\n'         Text.Whitespace

'CONFIGURE_SCRIPT' Name.Variable
'='          Operator
'\t'         Text.Whitespace
'../configure' Text
' '          Text.Whitespace
'# must be relative\n' Comment.Single

'CONFIGURE_ENV' Name.Variable
'='          Operator
'\t'         Text.Whitespace
'OPT'        Name.Variable
'='          Operator
'"'          Literal.String.Double
'${'         Literal.String.Interpol
'CFLAGS'     Name.Variable
'}'          Literal.String.Interpol
'"'          Literal.String.Double
' '          Text.Whitespace
'SVNVERSION'  Name.Variable
'='          Operator
'"echo freebsd"' Literal.String.Double
'\n'         Text.Whitespace

'MAKE_ENV'   Name.Variable
'='          Operator
'\t'         Text.Whitespace
'VPATH'      Name.Variable
'='          Operator
```

```
""          Literal.String.Double
'${'         Literal.String.Interpol
'PYTHON_WRKSRC'
 Name.Variable
'}'          Literal.String.Interpol
""          Literal.String.Double
'\n'         Text.Whitespace

'INSTALLS_SHLIB' Name.Variable
'='          Operator
'\t'         Text.Whitespace
'yes'         Text
'\n'         Text.Whitespace

'INSTALL_TARGET' Name.Variable
'='          Operator
'\t'         Text.Whitespace
'altinstall'  Text
'\n'         Text.Whitespace

'MAN1'        Name.Variable
'='          Operator
'\t\t'       Text.Whitespace
'${'         Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'          Literal.String.Interpol
'.1'         Text
'\n'         Text.Whitespace

'\n'         Text.Whitespace

'USE_PYTHON'  Name.Variable
'='          Operator
'\t'         Text.Whitespace
'yes'         Text
'\n'         Text.Whitespace

'PYTHON_VERSION' Name.Variable
'='          Operator
'\t'         Text.Whitespace
'python2.5'   Text
'\n'         Text.Whitespace

'PYTHON_NO_DEPENDS' Name.Variable
'='
      Operator
'\t'         Text.Whitespace
'yes'         Text
```

```
'\n'        Text.Whitespace

'\n'        Text.Whitespace

'SHARED_WRKSRC' Name.Variable
'='         Operator
'\t'        Text.Whitespace
'${'        Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}'         Literal.String.Interpol
'/portbld.shared' Text
'\n'        Text.Whitespace

'PLIST'     Name.Variable
'='         Operator
'\t\t'      Text.Whitespace
'${'        Literal.String.Interpol
'WRKDIR'    Name.Variable
'}'         Literal.String.Interpol
'/PLIST'    Text
'\n'        Text.Whitespace

'PLIST_TEMPLATE' Name.Variable
'?='        Operator
'${'        Literal.String.Interpol
'PKGDIR'    Name.Variable
'}'         Literal.String.Interpol
'/pkg-plist'  Text
'\n'        Text.Whitespace

'PLIST_SUB'   Name.Variable
'='         Operator
'\t'        Text.Whitespace
'PYVER'     Name.Variable
'='         Operator
'${'        Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
':'
        Punctuation
'S'         Name.Variable
'/python//'   Punctuation
'}'         Literal.String.Interpol
' '         Text.Whitespace
'\\\n'      Literal.String.Escape

'\t\t'      Text.Whitespace
'PYVER_WITHPAT' Name.Variable
'='         Operator
```

```
'${'        Literal.String.Interpol
'PORTVERSION' Name.Variable
':'         Punctuation
'S'         Name.Variable
'/.c/c/'    Punctuation
'}'         Literal.String.Interpol
'\n'        Text.Whitespace

'DEMODIR'   Name.Variable
'='         Operator
'\t'        Text.Whitespace
'${'        Literal.String.Interpol
'PREFIX'    Name.Variable
'}'         Literal.String.Interpol
'/share/examples/' Text
'${'        Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'         Literal.String.Interpol
'\n'        Text.Whitespace

'TOOLSDIR'  Name.Variable
'='         Operator
'\t'        Text.Whitespace
'${'        Literal.String.Interpol
'PREFIX'    Name.Variable
'}'
    Literal.String.Interpol
'/share/'   Text
'${'        Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'         Literal.String.Interpol
'\n'        Text.Whitespace

'\n'        Text.Whitespace

'BIN_SCRIPTS' Name.Variable
'='         Operator
'\t'        Text.Whitespace
'idle'      Text
' '         Text.Whitespace
'pydoc'     Text
' '         Text.Whitespace
'python'    Text
' '         Text.Whitespace
'python-shared' Text
' '         Text.Whitespace
'smtpd.py'  Text
' '         Text.Whitespace
```

```
'python-config' Text
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'python-shared-config' Text
'\n'         Text.Whitespace

'BINLINKS_SUB' Name.Variable
'='          Operator
'\t'         Text.Whitespace
'-e'         Text
' '          Text.Whitespace
'''s,smtpd,smtpd${PYTHON_VER},''' Literal.String.Single
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'-e'
         Text
' '          Text.Whitespace
'''s,(idle|pydoc|python-shared|python),\\1${PYTHON_VER},''' Literal.String.Single
'\n\n'       Text.Whitespace

'OPTIONS'    Name.Variable
'='          Operator
'\t'         Text.Whitespace
'THREADS'    Text
' '          Text.Whitespace
'''Enable thread support''' Literal.String.Double
' '          Text.Whitespace
'on'         Text
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'HUGE_STACK_SIZE' Text
' '          Text.Whitespace
'''Use a larger thread stack''' Literal.String.Double
' '          Text.Whitespace
'off'        Text
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'UCS4'       Text
' '          Text.Whitespace
'''Use UCS4 for unicode support''' Literal.String.Double
```

```
' '          Text.Whitespace
'on'         Text
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'PYMALLOC'
   Text
' '          Text.Whitespace
'"Use python\'s internal malloc"' Literal.String.Double
' '          Text.Whitespace
'on'         Text
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'IPV6'       Text
' '          Text.Whitespace
'"Enable IPv6 support"' Literal.String.Double
' '          Text.Whitespace
'on'         Text
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'FPECTL'     Text
' '          Text.Whitespace
'"Enable floating point exception handling"' Literal.String.Double
' '          Text.Whitespace
'off'        Text
'\n\n'       Text.Whitespace

'.include <bsd.port.pre.mk>\n' Comment.Preproc

'\n'         Text.Whitespace

'.if ${PYTHON_VERSION} == ${PYTHON_DEFAULT_VERSION}\n' Comment.Preproc

'MLINKS'     Name.Variable
'='          Operator
'\t\t'       Text.Whitespace
'${'         Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'          Literal.String.Interpol
'.1'
        Text
' '          Text.Whitespace
'python.1'   Text
```

```
'\n'        Text.Whitespace

'PLIST_SUB'   Name.Variable
'+='         Operator
'\t'         Text.Whitespace
'IF_DEFAULT'  Name.Variable
'='          Operator
'"'          Literal.String.Double
'\n'         Text.Whitespace

'.else\n'     Comment.Preproc

'PLIST_SUB'   Name.Variable
'+='         Operator
'\t'         Text.Whitespace
'IF_DEFAULT'  Name.Variable
'='          Operator
'"@comment " Literal.String.Double
'\n'         Text.Whitespace

'.endif\n'    Comment.Preproc

'\n'         Text.Whitespace

'# workaround for a bug in base curses.h.\n' Comment

'CFLAGS'      Name.Variable
'+='         Operator
'\t'         Text.Whitespace
'-D__wchar_t' Text
'='          Operator
'wchar_t'     Text
'\n'         Text.Whitespace

'\n'         Text.Whitespace

'.if !defined(WITHOUT_THREADS)\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+='         Operator
'\t'         Text.Whitespace
'--with-threads'
 Text
'\n'         Text.Whitespace

'CFLAGS'      Name.Variable
'+='         Operator
'\t\t'       Text.Whitespace
```

```
'${'          Literal.String.Interpol
'PTHREAD_CFLAGS' Name.Variable
'}'           Literal.String.Interpol
'\n'          Text.Whitespace

'.if defined(WITHOUT_HUGE_STACK_SIZE)\n' Comment.Preproc

'CFLAGS'      Name.Variable
'+='          Operator
'\t\t'        Text.Whitespace
'-DTHREAD_STACK_SIZE' Text
'='           Operator
'0x20000'     Text
'\n'          Text.Whitespace

'.else\n'     Comment.Preproc

'CFLAGS'      Name.Variable
'+='          Operator
'\t\t'        Text.Whitespace
'-DTHREAD_STACK_SIZE' Text
'='           Operator
'0x100000'    Text
'\n'          Text.Whitespace

'.endif # defined(WITHOUT_HUGE_STACK_SIZE)\n' Comment.Preproc

'CONFIGURE_ENV' Name.Variable
'+='          Operator
'\t\t'        Text.Whitespace
'LDFLAGS'     Name.Variable
'='           Operator
'"'           Literal.String.Double
'${'          Literal.String.Interpol
'PTHREAD_LIBS'
 Name.Variable
'}'           Literal.String.Interpol
' '           Literal.String.Double
'${'          Literal.String.Interpol
'LDFLAGS'     Name.Variable
'}'           Literal.String.Interpol
'"'           Literal.String.Double
'\n'          Text.Whitespace

'.else\n'     Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+='          Operator
```

```
'\t'          Text.Whitespace
'--without-threads' Text
'\n'          Text.Whitespace

'.if defined(LDFLAGS)\n' Comment.Preproc

'CONFIGURE_ENV' Name.Variable
'+='          Operator
'\t\t'        Text.Whitespace
'LDFLAGS'     Name.Variable
'='           Operator
''''          Literal.String.Double
'${'          Literal.String.Interpol
'LDFLAGS'     Name.Variable
'}'           Literal.String.Interpol
''''          Literal.String.Double
'\n'          Text.Whitespace

'.endif # defined(LDFLAGS)\n' Comment.Preproc

'.endif # !defined(WITHOUT_THREADS)\n' Comment.Preproc

'\n'          Text.Whitespace

'.if !defined(WITHOUT_UCS4) && !defined(WITH_UCS2)\n'
 Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+='          Operator
'\t'          Text.Whitespace
'--enable-unicode' Text
'='           Operator
'ucs4'        Text
'\n'          Text.Whitespace

'.endif\n'    Comment.Preproc

'\n'          Text.Whitespace

'.if defined(WITHOUT_PYMALLOC)\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+='          Operator
'       '     Text.Whitespace
'--without-pymalloc' Text
'\n'          Text.Whitespace

'.endif\n'    Comment.Preproc
```

```
'\n'        Text.Whitespace

'.if ${ARCH} == i386\n' Comment.Preproc

'PLIST_SUB'   Name.Variable
'+='        Operator
'\t'        Text.Whitespace
'X86_ONLY'    Name.Variable
'='         Operator
'"'         Literal.String.Double
'\n'        Text.Whitespace

'.else\n'     Comment.Preproc

'PLIST_SUB'   Name.Variable
'+='        Operator
'\t'        Text.Whitespace
'X86_ONLY'    Name.Variable
'='         Operator
'"@comment " Literal.String.Double
'\n'        Text.Whitespace

'.endif\n'
    Comment.Preproc

'.if ${ARCH} == amd64 || ${ARCH} == ia64 || ${ARCH} == sparc64 || ${ARCH} == alpha\n' Comment.Preproc

'PLIST_SUB'   Name.Variable
'+='        Operator
'    '      Text.Whitespace
'32BIT_ONLY'  Name.Variable
'='         Operator
'"@comment " Literal.String.Double
'\n'        Text.Whitespace

'.else\n'     Comment.Preproc

'PLIST_SUB'   Name.Variable
'+='        Operator
'    '      Text.Whitespace
'32BIT_ONLY'  Name.Variable
'='         Operator
'"'         Literal.String.Double
'\n'        Text.Whitespace

'.endif\n'    Comment.Preproc
```

```
'.if ${ARCH} == sparc64\n' Comment.Preproc

'CFLAGS'      Name.Variable
'+='          Operator
'       '     Text.Whitespace
'-DPYTHON_DEFAULT_RECURSION_LIMIT' Text
'='           Operator
'900'         Literal.Number
'\n'          Text.Whitespace

'.endif\n'    Comment.Preproc

'\n'          Text.Whitespace

'.if !exists(/usr/bin/ypcat) # the world with NO_NIS\n' Comment.Preproc

'PLIST_SUB'   Name.Variable
'+='
          Operator
'\t'          Text.Whitespace
'NO_NIS'      Name.Variable
'='           Operator
'"@comment " Literal.String.Double
'\n'          Text.Whitespace

'.else\n'     Comment.Preproc

'PLIST_SUB'   Name.Variable
'+='          Operator
'\t'          Text.Whitespace
'NO_NIS'      Name.Variable
'='           Operator
'""'          Literal.String.Double
'\n'          Text.Whitespace

'.endif\n'    Comment.Preproc

'\n'          Text.Whitespace

'.if !defined(WITHOUT_IPV6)\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+='          Operator
' '           Text.Whitespace
'--enable-ipv6' Text
'\n'          Text.Whitespace

'.else\n'     Comment.Preproc
```

```
'CONFIGURE_ARGS' Name.Variable
'+='          Operator
' '           Text.Whitespace
'--disable-ipv6' Text
'\n'          Text.Whitespace

'.endif\n'    Comment.Preproc

'\n'          Text.Whitespace

'.if defined(WITH_FPECTL)\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+='          Operator
' '           Text.Whitespace
'--with-fpectl'
 Text
'\n'          Text.Whitespace

'.endif\n'    Comment.Preproc

'\n'          Text.Whitespace

'.if ${OSVERSION} >= 700000\n' Comment.Preproc

'PLATFORMS'   Name.Variable
'='           Operator
'plat-freebsd4' Text
' '           Text.Whitespace
'plat-freebsd5' Text
' '           Text.Whitespace
'plat-freebsd6' Text
'\n'          Text.Whitespace

'.elif ${OSVERSION} >= 600000\n' Comment.Preproc

'PLATFORMS'   Name.Variable
'='           Operator
'plat-freebsd4' Text
' '           Text.Whitespace
'plat-freebsd5' Text
' '           Text.Whitespace
'plat-freebsd7' Text
'\n'          Text.Whitespace

'.else\n'     Comment.Preproc
```

```
'PLATFORMS'   Name.Variable
'='           Operator
'plat-freebsd4' Text
' '           Text.Whitespace
'plat-freebsd6' Text
' '           Text.Whitespace
'plat-freebsd7' Text
'\n'          Text.Whitespace

'.endif\n'    Comment.Preproc

'\n'          Text.Whitespace

'pre-patch'   Name.Function
':'           Operator
'\n'          Text.Whitespace

'\t'
          Text.Whitespace
'${'          Literal.String.Interpol
'MKDIR'       Name.Variable
'}'           Literal.String.Interpol
' '           Text.Whitespace
'${'          Literal.String.Interpol
'WRKSRC'      Name.Variable
'}'           Literal.String.Interpol
' '           Text.Whitespace
'${'          Literal.String.Interpol
'SHARED_WRKSRC' Name.Variable
'}'           Literal.String.Interpol
'/Modules'    Text
'\n\t'        Text.Whitespace
'${'          Literal.String.Interpol
'SED'         Name.Variable
'}'           Literal.String.Interpol
' '           Text.Whitespace
'-e'          Text
' '           Text.Whitespace
'"1s,^.*$$,#!${PREFIX}/bin/${PYTHON_VERSION},"' Literal.String.Single
' '           Text.Whitespace
'\\\n'        Literal.String.Escape

'\t\t'        Text.Whitespace
'${'          Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'           Literal.String.Interpol
'/Tools/scripts/pydoc' Text
' '           Text.Whitespace
```

```
'>'          Text
' '
     Text.Whitespace
'${'         Literal.String.Interpol
'WRKDIR'     Name.Variable
'}'          Literal.String.Interpol
'/pydoc2.5'  Text
'\n\t'       Text.Whitespace
'${'         Literal.String.Interpol
'SED'        Name.Variable
'}'          Literal.String.Interpol
' '          Text.Whitespace
'-e'         Text
' '          Text.Whitespace
"'1s,^.*$$,#!${PREFIX}/bin/${PYTHON_VERSION},'" Literal.String.Single
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'${'         Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'          Literal.String.Interpol
'/Tools/scripts/idle' Text
' '          Text.Whitespace
'>'          Text
' '          Text.Whitespace
'${'         Literal.String.Interpol
'WRKDIR'     Name.Variable
'}'          Literal.String.Interpol
'/idle2.5'   Text
'\n\t'       Text.Whitespace
'${'         Literal.String.Interpol
'SED'        Name.Variable
'}'          Literal.String.Interpol
' '
     Text.Whitespace
'-e'         Text
' '          Text.Whitespace
"'1s,^.*$$,#!${PREFIX}/bin/${PYTHON_VERSION},'" Literal.String.Single
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'${'         Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'          Literal.String.Interpol
'/Lib/smtpd.py' Text
' '          Text.Whitespace
```

```
'>'          Text
' '          Text.Whitespace
'${'         Literal.String.Interpol
'WRKDIR'     Name.Variable
'}'          Literal.String.Interpol
'/smtpd2.5.py' Text
'\n\t'       Text.Whitespace
'${'         Literal.String.Interpol
'REINPLACE_CMD' Name.Variable
'}'          Literal.String.Interpol
' '          Text.Whitespace
'-e'         Text
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'"s,/usr/doc/python-docs-,${PREFIX}/share/doc/python,g"' Literal.String.Single
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'
       Text.Whitespace
'${'         Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'          Literal.String.Interpol
'/Lib/pydoc.py' Text
'\n\t'       Text.Whitespace
'${'         Literal.String.Interpol
'REINPLACE_CMD' Name.Variable
'}'          Literal.String.Interpol
' '          Text.Whitespace
'-e'         Text
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'\'s|^\\( *prefixes = .*\\)\\]$$|\\1, "${X11BASE}"]|g\'' Literal.String.Single
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'${'         Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'          Literal.String.Interpol
'/Lib/site.py' Text
'\n\t'       Text.Whitespace
'${'         Literal.String.Interpol
'REINPLACE_CMD' Name.Variable
```

```
'}'          Literal.String.Interpol
' '          Text.Whitespace
'-e'         Text
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'
 Text.Whitespace
'"s|^\t\\(..ASDLGEN.*\\)$$|\t${TRUE}|g'" Literal.String.Single
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'${'         Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'          Literal.String.Interpol
'/Makefile.pre.in' Text
'\n\n\t'     Text.Whitespace
'${'         Literal.String.Interpol
'REINPLACE_CMD' Name.Variable
'}'          Literal.String.Interpol
' '          Text.Whitespace
'-e'         Text
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'"s|*\\(..INSTALL_SCRIPT.*\\)python-config$$|#port \\1|'" Literal.String.Single
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'${'         Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'          Literal.String.Interpol
'/Makefile.pre.in' Text
'\n\n\t'     Text.Whitespace
'${'         Literal.String.Interpol
'SED'        Name.Variable
'}'
   Literal.String.Interpol
' '          Text.Whitespace
'-e'         Text
' '          Text.Whitespace
'"s|^#!.*|#!${PREFIX}/bin/${PYTHON_VERSION}|'" Literal.String.Single
' '          Text.Whitespace
'\\\n'       Literal.String.Escape
```

```
'\t\t'        Text.Whitespace
'${'          Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'           Literal.String.Interpol
'/Misc/python-config.in' Text
' '           Text.Whitespace
'>'           Text
' '           Text.Whitespace
'${'          Literal.String.Interpol
'WRKDIR'      Name.Variable
'}'           Literal.String.Interpol
'/'           Text
'${'          Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'           Literal.String.Interpol
'-config'     Text
'\n\t'        Text.Whitespace
'${'          Literal.String.Interpol
'SED'         Name.Variable
'}'           Literal.String.Interpol
' '           Text.Whitespace
'-e'          Text
' '           Text.Whitespace
'"s|^#!.*|#!${PREFIX}/bin/${PYTHON_VERSION:S/thon/thon-shared/}|"'
 Literal.String.Single
' '           Text.Whitespace
'\\\n'        Literal.String.Escape

'\t\t'        Text.Whitespace
'${'          Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'           Literal.String.Interpol
'/Misc/python-config.in' Text
' '           Text.Whitespace
'>'           Text
' '           Text.Whitespace
'${'          Literal.String.Interpol
'WRKDIR'      Name.Variable
'}'           Literal.String.Interpol
'/'           Text
'${'          Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
':'           Punctuation
'S'           Name.Variable
'/thon/thon-shared/' Punctuation
'}'           Literal.String.Interpol
'-config'     Text
'\n\n'        Text.Whitespace
```

```
'.if defined(WITH_FPECTL) && ${ARCH} == i386\n' Comment.Preproc

'\t'        Text.Whitespace
'${'        Literal.String.Interpol
'MKDIR'     Name.Variable
'}'         Literal.String.Interpol
' '         Text.Whitespace
'${'        Literal.String.Interpol
'WRKSRC'    Name.Variable
'}'
        Literal.String.Interpol
'/Modules'  Text
'\n\t'      Text.Whitespace
'${'        Literal.String.Interpol
'ECHO'      Name.Variable
'}'         Literal.String.Interpol
' '         Text.Whitespace
'"fpectl fpectlmodule.c"' Literal.String.Double
' '         Text.Whitespace
'>>'        Text
' '         Text.Whitespace
'${'        Literal.String.Interpol
'WRKSRC'    Name.Variable
'}'         Literal.String.Interpol
'/Modules/Setup.dist' Text
'\n'        Text.Whitespace

'.endif\n'  Comment.Preproc

'\n'        Text.Whitespace

'post-configure' Name.Function
':'         Operator
'\n'        Text.Whitespace

'\t'        Text.Whitespace
'${'        Literal.String.Interpol
'TAR'       Name.Variable
'}'         Literal.String.Interpol
' '         Text.Whitespace
'-C'        Text
' '         Text.Whitespace
'${'        Literal.String.Interpol
'WRKSRC'    Name.Variable
'}'         Literal.String.Interpol
' '         Text.Whitespace
'-cf'
```

```
        Text
' '         Text.Whitespace
'-'         Text
' '         Text.Whitespace
'.'         Text
' '         Text.Whitespace
'|'         Punctuation
' '         Text.Whitespace
'${'        Literal.String.Interpol
'TAR'       Name.Variable
'}'         Literal.String.Interpol
' '         Text.Whitespace
'-C'        Text
' '         Text.Whitespace
'${'        Literal.String.Interpol
'SHARED_WRKSRC' Name.Variable
'}'         Literal.String.Interpol
' '         Text.Whitespace
'-xf'       Text
' '         Text.Whitespace
'-'         Text
'\n\t'      Text.Whitespace
'${'        Literal.String.Interpol
'LN'        Name.Variable
'}'         Literal.String.Interpol
' '         Text.Whitespace
'-sf'       Text
' '         Text.Whitespace
'${'        Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}'         Literal.String.Interpol
'/Lib'      Text
' '         Text.Whitespace
'${'        Literal.String.Interpol
'WRKSRC'
    Name.Variable
'}'         Literal.String.Interpol
'/Lib'      Text
'\n\t'      Text.Whitespace
'${'        Literal.String.Interpol
'SED'       Name.Variable
'}'         Literal.String.Interpol
' '         Text.Whitespace
'-e'        Text
' '         Text.Whitespace
'"s,^\\(LDLIBRARY=\\).*$$,\\1libpython$$(VERSION).so,"' Literal.String.Single
' '         Text.Whitespace
'\\\n'      Literal.String.Escape
```

```
'\t\t'        Text.Whitespace
'-e'          Text
' '           Text.Whitespace
'"s,^\\(BLDLIBRARY=\\).*$$,\\1-L. -lpython$$(VERSION),"' Literal.String.Single
' '           Text.Whitespace
'\\\n'        Literal.String.Escape

'\t\t'        Text.Whitespace
'-e'          Text
' '           Text.Whitespace
'"s,^\\(CFLAGSFORSHARED=\\).*$$,\\1$$(CCSHARED),"' Literal.String.Single
' '           Text.Whitespace
'\\\n'        Literal.String.Escape

'\t\t'        Text.Whitespace
'-e'          Text
' '           Text.Whitespace
'"s,^\\(Makefile Modules/config.c:.*\\)Makefile.pre,\\1,"'
 Literal.String.Single
' '           Text.Whitespace
'\\\n'        Literal.String.Escape

'\t\t'        Text.Whitespace
'-e'          Text
' '           Text.Whitespace
'"s,^\\(.(BUILDPYTHON)\\: .*\\).(LIBRARY),\\1,"' Literal.String.Single
' '           Text.Whitespace
'\\\n'        Literal.String.Escape

'\t\t'        Text.Whitespace
'-e'          Text
' '           Text.Whitespace
'"s,^\\(.(BUILDPYTHON):.*\\).(LIBRARY),\\1,"' Literal.String.Single
' '           Text.Whitespace
'\\\n'        Literal.String.Escape

'\t\t'        Text.Whitespace
'${'          Literal.String.Interpol
'WRKSRC'      Name.Variable
'}'           Literal.String.Interpol
'/Makefile'   Text
' '           Text.Whitespace
'>'           Text
' '           Text.Whitespace
'${'          Literal.String.Interpol
'SHARED_WRKSRC' Name.Variable
'}'           Literal.String.Interpol
```

```
'/Makefile'   Text
'\n\n'        Text.Whitespace

'pre-build'   Name.Function
':'           Operator
'\n'
        Text.Whitespace

'\t'          Text.Whitespace
'cd'          Name.Builtin
' '           Text.Whitespace
'${'          Literal.String.Interpol
'SHARED_WRKSRC' Name.Variable
'}'           Literal.String.Interpol
';'           Punctuation
' '           Text.Whitespace
'\\\n'        Literal.String.Escape

'\t'          Text.Whitespace
'${'          Literal.String.Interpol
'SETENV'      Name.Variable
'}'           Literal.String.Interpol
' '           Text.Whitespace
'${'          Literal.String.Interpol
'MAKE_ENV'    Name.Variable
'}'           Literal.String.Interpol
' '           Text.Whitespace
'${'          Literal.String.Interpol
'MAKE'        Name.Variable
'}'           Literal.String.Interpol
' '           Text.Whitespace
'lib'         Text
'${'          Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'           Literal.String.Interpol
'.so'         Text
' '           Text.Whitespace
'python'      Text
';'           Punctuation
' '           Text.Whitespace
'\\\n'
        Literal.String.Escape

'\t'          Text.Whitespace
'${'          Literal.String.Interpol
'LN'          Name.Variable
'}'           Literal.String.Interpol
' '           Text.Whitespace
```

```
'-f'          Text
' '          Text.Whitespace
'lib'         Text
'${'          Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'          Literal.String.Interpol
'.so'         Text
' '          Text.Whitespace
'lib'         Text
'${'          Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'          Literal.String.Interpol
'.so.1'       Text
';'          Punctuation
' '          Text.Whitespace
'\\\n'        Literal.String.Escape

'\t'          Text.Whitespace
'${'          Literal.String.Interpol
'LN'          Name.Variable
'}'          Literal.String.Interpol
' '          Text.Whitespace
'-f'          Text
' '          Text.Whitespace
'python'      Text
' '          Text.Whitespace
'${'          Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
':'
  Punctuation
'S'           Name.Variable
'/thon/thon-shared/' Punctuation
'}'          Literal.String.Interpol
'\n\n'        Text.Whitespace

'pre-su-install' Name.Function
':'          Operator
'\n'          Text.Whitespace

'.for platform in ${PLATFORMS}\n' Comment.Preproc

'\t'          Text.Whitespace
'${'          Literal.String.Interpol
'MKDIR'       Name.Variable
'}'          Literal.String.Interpol
' '          Text.Whitespace
'${'          Literal.String.Interpol
'PYTHONPREFIX_LIBDIR' Name.Variable
```

```
'}'          Literal.String.Interpol
'/'          Text
'${'         Literal.String.Interpol
'platform'   Name.Variable
'}'          Literal.String.Interpol
'\n'         Text.Whitespace

'.for file in IN.py regen\n' Comment.Preproc

'\t'         Text.Whitespace
'${'         Literal.String.Interpol
'INSTALL_DATA' Name.Variable
'}'          Literal.String.Interpol
' '          Text.Whitespace
'${'         Literal.String.Interpol
'WRKSRC'     Name.Variable
'}'
 Literal.String.Interpol
'/Lib/'      Text
'${'         Literal.String.Interpol
'platform'   Name.Variable
'}'          Literal.String.Interpol
'/'          Text
'${'         Literal.String.Interpol
'file'       Name.Variable
'}'          Literal.String.Interpol
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'${'         Literal.String.Interpol
'PYTHONPREFIX_LIBDIR' Name.Variable
'}'          Literal.String.Interpol
'/'          Text
'${'         Literal.String.Interpol
'platform'   Name.Variable
'}'          Literal.String.Interpol
'/'          Text
'\n'         Text.Whitespace

'.endfor\n'  Comment.Preproc

'.endfor\n'  Comment.Preproc

'\n'         Text.Whitespace

'pre-install' Name.Function
':'          Operator
```

```
'\n'        Text.Whitespace

'\t'        Text.Whitespace
'${'        Literal.String.Interpol
'CAT'       Name.Variable
'}'         Literal.String.Interpol
' '         Text.Whitespace
'${'
    Literal.String.Interpol
'PLIST_TEMPLATE' Name.Variable
'}'         Literal.String.Interpol
' '         Text.Whitespace
'|'         Punctuation
' '         Text.Whitespace
'${'        Literal.String.Interpol
'AWK'       Name.Variable
'}'         Literal.String.Interpol
' '         Text.Whitespace
'\'{ print $$0; } \\\n\t/LIBDIR.*\\.py$$/ && !/\\/bad/ { print $$0 "o"; print $$0 "c"; }\" Literal.String.Single
'\t'        Text.Whitespace
'>'         Text
' '         Text.Whitespace
'${'        Literal.String.Interpol
'PLIST'     Name.Variable
'}'         Literal.String.Interpol
'\n\n'      Text.Whitespace

"\t@# if openssl 0.9.8 is detected, _sha{256,512} module won't be installed\n" Comment

'\t'        Text.Whitespace
'('         Operator
'['         Operator
' '         Text.Whitespace
'-f'        Text
' '         Text.Whitespace
'${'        Literal.String.Interpol
'WRKSRC'    Name.Variable
'}'         Literal.String.Interpol
'/.without_own_sha'
 Text
' '         Text.Whitespace
']'         Operator
' '         Text.Whitespace
'&&'        Operator
' '         Text.Whitespace
'\\\n'      Literal.String.Escape

'\t\t'      Text.Whitespace
```

```
'${'        Literal.String.Interpol
'GREP'      Name.Variable
'}'         Literal.String.Interpol
' '         Text.Whitespace
'-v'        Text
' '         Text.Whitespace
'"lib-dynload/_sha"' Literal.String.Single
' '         Text.Whitespace
'${'        Literal.String.Interpol
'PLIST'     Name.Variable
'}'         Literal.String.Interpol
' '         Text.Whitespace
'>'         Text
' '         Text.Whitespace
'${'        Literal.String.Interpol
'PLIST'     Name.Variable
'}'         Literal.String.Interpol
'.tmp'      Text
' '         Text.Whitespace
'&&'        Operator
' '         Text.Whitespace
'\\\n'      Literal.String.Escape

'\t\t'      Text.Whitespace
'${'        Literal.String.Interpol
'CAT'       Name.Variable
'}'
        Literal.String.Interpol
' '         Text.Whitespace
'${'        Literal.String.Interpol
'PLIST'     Name.Variable
'}'         Literal.String.Interpol
'.tmp'      Text
' '         Text.Whitespace
'>'         Text
' '         Text.Whitespace
'${'        Literal.String.Interpol
'PLIST'     Name.Variable
'}'         Literal.String.Interpol
')'         Operator
' '         Text.Whitespace
'||'        Operator
' '         Text.Whitespace
'${'        Literal.String.Interpol
'TRUE'      Name.Variable
'}'         Literal.String.Interpol
'\n\n'      Text.Whitespace
```

```
'post-install' Name.Function
':'          Operator
'\n'         Text.Whitespace

'\t@# install config providers\n' Comment

'\t'         Text.Whitespace
'${'         Literal.String.Interpol
'INSTALL_SCRIPT' Name.Variable
'}'          Literal.String.Interpol
' '          Text.Whitespace
'${'         Literal.String.Interpol
'WRKDIR'     Name.Variable
'}'          Literal.String.Interpol
'/'
          Text
'${'         Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'          Literal.String.Interpol
'-config'    Text
' '          Text.Whitespace
'${'         Literal.String.Interpol
'PREFIX'     Name.Variable
'}'          Literal.String.Interpol
'/bin'       Text
'\n\t'       Text.Whitespace
'${'         Literal.String.Interpol
'INSTALL_SCRIPT' Name.Variable
'}'          Literal.String.Interpol
' '          Text.Whitespace
'${'         Literal.String.Interpol
'WRKDIR'     Name.Variable
'}'          Literal.String.Interpol
'/'          Text
'${'         Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
':'          Punctuation
'S'          Name.Variable
'/thon/thon-shared/' Punctuation
'}'          Literal.String.Interpol
'-config'    Text
' '          Text.Whitespace
'${'         Literal.String.Interpol
'PREFIX'     Name.Variable
'}'          Literal.String.Interpol
'/bin'       Text
'\n\n'       Text.Whitespace
```

```
'\t@#
 shared version of executable and library\n' Comment

'\t'        Text.Whitespace
'${'        Literal.String.Interpol
'INSTALL_PROGRAM' Name.Variable
'}'         Literal.String.Interpol
' '         Text.Whitespace
'${'        Literal.String.Interpol
'SHARED_WRKSRC' Name.Variable
'}'         Literal.String.Interpol
'/lib'      Text
'${'        Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'         Literal.String.Interpol
'.so.1'     Text
' '         Text.Whitespace
'\\\n'      Literal.String.Escape

'\t\t'      Text.Whitespace
'${'        Literal.String.Interpol
'PREFIX'    Name.Variable
'}'         Literal.String.Interpol
'/lib'      Text
'\n\t'      Text.Whitespace
'cd'        Name.Builtin
' '         Text.Whitespace
'${'        Literal.String.Interpol
'PREFIX'    Name.Variable
'}'         Literal.String.Interpol
'/lib'      Text
';'         Punctuation
' '         Text.Whitespace
'${'        Literal.String.Interpol
'LN'
        Name.Variable
'}'         Literal.String.Interpol
' '         Text.Whitespace
'-sf'       Text
' '         Text.Whitespace
'lib'       Text
'${'        Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'         Literal.String.Interpol
'.so.1'     Text
' '         Text.Whitespace
'\\\n'      Literal.String.Escape
```

```
'\t\t'        Text.Whitespace
'lib'         Text
'${'          Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'           Literal.String.Interpol
'.so'         Text
'\n\t'        Text.Whitespace
'${'          Literal.String.Interpol
'LN'          Name.Variable
'}'           Literal.String.Interpol
' '           Text.Whitespace
'-sf'         Text
' '           Text.Whitespace
'${'          Literal.String.Interpol
'PREFIX'      Name.Variable
'}'           Literal.String.Interpol
'/lib/lib'    Text
'${'          Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'           Literal.String.Interpol
'.so'         Text
' '
      Text.Whitespace
'${'          Literal.String.Interpol
'PYTHONPREFIX_LIBDIR' Name.Variable
'}'           Literal.String.Interpol
'/config'     Text
'\n\t'        Text.Whitespace
'${'          Literal.String.Interpol
'INSTALL_PROGRAM' Name.Variable
'}'           Literal.String.Interpol
' '           Text.Whitespace
'\\\n'        Literal.String.Escape

'\t\t'        Text.Whitespace
'${'          Literal.String.Interpol
'SHARED_WRKSRC' Name.Variable
'}'           Literal.String.Interpol
'/'           Text
'${'          Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
':'           Punctuation
'S'           Name.Variable
'/thon/thon-shared/' Punctuation
'}'           Literal.String.Interpol
' '           Text.Whitespace
'\\\n'        Literal.String.Escape
```

```
'\t\t'        Text.Whitespace
'${'          Literal.String.Interpol
'PREFIX'      Name.Variable
'}'           Literal.String.Interpol
'/bin'        Text
'\n\n'        Text.Whitespace

'\t@# additional files installing by ports\n'
 Comment

'\t'          Text.Whitespace
'${'          Literal.String.Interpol
'INSTALL_SCRIPT' Name.Variable
'}'           Literal.String.Interpol
' '           Text.Whitespace
'${'          Literal.String.Interpol
'WRKDIR'      Name.Variable
'}'           Literal.String.Interpol
'/pydoc2.5'   Text
' '           Text.Whitespace
'${'          Literal.String.Interpol
'WRKDIR'      Name.Variable
'}'           Literal.String.Interpol
'/idle2.5'    Text
' '           Text.Whitespace
'\\\n'        Literal.String.Escape

'\t\t'        Text.Whitespace
'${'          Literal.String.Interpol
'WRKDIR'      Name.Variable
'}'           Literal.String.Interpol
'/smtpd2.5.py' Text
' '           Text.Whitespace
'${'          Literal.String.Interpol
'PREFIX'      Name.Variable
'}'           Literal.String.Interpol
'/bin'        Text
'\n\t'        Text.Whitespace
'@'           Text
'${'          Literal.String.Interpol
'MKDIR'       Name.Variable
'}'           Literal.String.Interpol
' '           Text.Whitespace
'${'
          Literal.String.Interpol
'MANPREFIX'   Name.Variable
'}'           Literal.String.Interpol
'/man/man1'   Text
```

```
'\n\t'        Text.Whitespace
'${'          Literal.String.Interpol
'INSTALL_MAN' Name.Variable
'}'           Literal.String.Interpol
' '           Text.Whitespace
'${'          Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}'           Literal.String.Interpol
'/Misc/python.man' Text
' '           Text.Whitespace
'\\\n'        Literal.String.Escape

'\t\t'        Text.Whitespace
'${'          Literal.String.Interpol
'MANPREFIX'   Name.Variable
'}'           Literal.String.Interpol
'/man/man1/'  Text
'${'          Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'           Literal.String.Interpol
'.1'          Text
'\n\n'        Text.Whitespace

'.if ${PYTHON_VERSION} == ${PYTHON_DEFAULT_VERSION}\n' Comment.Preproc

'\t'          Text.Whitespace
'for'         Keyword
' '           Text.Whitespace
'f'           Text
' '           Text.Whitespace
'in'
          Keyword
' '           Text.Whitespace
'${'          Literal.String.Interpol
'BIN_SCRIPTS' Name.Variable
'}'           Literal.String.Interpol
';'           Punctuation
' '           Text.Whitespace
'do'          Keyword
' '           Text.Whitespace
'\\\n'        Literal.String.Escape

'\t\t'        Text.Whitespace
'TARGET'      Name.Variable
'='           Operator
'`'           Literal.String.Backtick
'${'          Literal.String.Interpol
'ECHO_CMD'    Name.Variable
```

```
'}'          Literal.String.Interpol
' '          Text.Whitespace
'$$'         Name.Variable
'f'          Text
' '          Text.Whitespace
'|'          Punctuation
' '          Text.Whitespace
'${'         Literal.String.Interpol
'SED'        Name.Variable
'}'          Literal.String.Interpol
' '          Text.Whitespace
'-E'         Text
' '          Text.Whitespace
'${'         Literal.String.Interpol
'BINLINKS_SUB' Name.Variable
'}'          Literal.String.Interpol
'`'          Literal.String.Backtick
';'
          Punctuation
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'cd'         Name.Builtin
' '          Text.Whitespace
'${'         Literal.String.Interpol
'PREFIX'     Name.Variable
'}'          Literal.String.Interpol
'/bin'       Text
' '          Text.Whitespace
'&&'         Operator
' '          Text.Whitespace
'${'         Literal.String.Interpol
'LN'         Name.Variable
'}'          Literal.String.Interpol
' '          Text.Whitespace
'-f'         Text
' '          Text.Whitespace
'$$'         Name.Variable
'TARGET'     Text
' '          Text.Whitespace
'$$'         Name.Variable
'f'          Text
';'          Punctuation
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t'         Text.Whitespace
```

```
'done'        Keyword
'\n'          Text.Whitespace

'.endif\n'    Comment.Preproc

'\n'          Text.Whitespace

'.if !defined(NOPORTDOCS)\n' Comment.Preproc

'\t'
          Text.Whitespace
'@'           Text
'${'          Literal.String.Interpol
'MKDIR'       Name.Variable
'}'           Literal.String.Interpol
' '           Text.Whitespace
'${'          Literal.String.Interpol
'TOOLSDIR'    Name.Variable
'}'           Literal.String.Interpol
'\n\t'        Text.Whitespace
'@cd'         Text
' '           Text.Whitespace
'${'          Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}'           Literal.String.Interpol
';'           Punctuation
' '           Text.Whitespace
'${'          Literal.String.Interpol
'TAR'         Name.Variable
'}'           Literal.String.Interpol
' '           Text.Whitespace
'-cf'         Text
' '           Text.Whitespace
'-'           Text
' '           Text.Whitespace
'Tools'       Text
' '           Text.Whitespace
'|'           Punctuation
' '           Text.Whitespace
'\\\n'        Literal.String.Escape

'\t\t'        Text.Whitespace
'('           Operator
'cd'          Name.Builtin
' '           Text.Whitespace
'${'
          Literal.String.Interpol
'TOOLSDIR'    Name.Variable
```

```
'}'          Literal.String.Interpol
';'          Punctuation
' '          Text.Whitespace
'${'         Literal.String.Interpol
'TAR'        Name.Variable
'}'          Literal.String.Interpol
' '          Text.Whitespace
'-xf'        Text
' '          Text.Whitespace
'-'          Text
')'          Operator
'\n\t'       Text.Whitespace
'@'          Text
'${'         Literal.String.Interpol
'MKDIR'      Name.Variable
'}'          Literal.String.Interpol
' '          Text.Whitespace
'${'         Literal.String.Interpol
'DEMODIR'    Name.Variable
'}'          Literal.String.Interpol
'\n\t'       Text.Whitespace
'@cd'        Text
' '          Text.Whitespace
'${'         Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}'          Literal.String.Interpol
'/Demo'      Text
';'          Punctuation
' '          Text.Whitespace
'${'         Literal.String.Interpol
'TAR'        Name.Variable
'}'
          Literal.String.Interpol
' '          Text.Whitespace
'-cf'        Text
' '          Text.Whitespace
'-'          Text
' '          Text.Whitespace
'*'          Text
' '          Text.Whitespace
'|'          Punctuation
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'('          Operator
'cd'         Name.Builtin
' '          Text.Whitespace
```

```
'${'          Literal.String.Interpol
'DEMODIR'     Name.Variable
'}'           Literal.String.Interpol
';'           Punctuation
' '           Text.Whitespace
'${'          Literal.String.Interpol
'TAR'         Name.Variable
'}'           Literal.String.Interpol
' '           Text.Whitespace
'-xf'         Text
' '           Text.Whitespace
'-'           Text
')'           Operator
'\n'          Text.Whitespace

'.endif\n'    Comment.Preproc

'\n\t'        Text.Whitespace
'@'           Text
'${'          Literal.String.Interpol
'CAT'         Name.Variable
'}'
     Literal.String.Interpol
' '           Text.Whitespace
'${'          Literal.String.Interpol
'PKGMESSAGE'  Name.Variable
'}'           Literal.String.Interpol
'\n\n'        Text.Whitespace

'.include <bsd.port.post.mk>\n' Comment.Preproc
# Step 1 of 3: from Hakaru to Maple LO (linear operator)

toLO := module()
 export
 ModuleApply := proc(m, $)
   local h;
   h := gensym('h');
   _Env_HakaruSolve := false;
   LO(h, integrate(m, h, []))
 end proc;

 export
 integrate := proc(m, h, loops :: list(name = range) := [], $)
   local x, n, i, res, l, br, m0;

   if m :: known_continuous then
     integrate_known(Int, Ints, 'xx', m, h, loops)
   elif m :: known_discrete then
```

```
    integrate_known(Sum, Sums, 'kk', m, h, loops)
  elif m :: 'Ret(anything)' then
    applyintegrand(h, mk_ary(op(1,m), loops))
  elif m :: 'Bind(anything, name, anything)' then
    res := eval(op(3,m), op(2,m) = mk_idx(op(2,m), loops));
    res := eval(Integrand(op(2,m), 'integrate'(res, x, loops)), x=h);
    integrate(op(1,m), res, loops);
  elif m :: 'specfunc(Msum)' and (nops(loops) = 0 or nops(m) = 1) then
    `+`(op(map(integrate, [op(m)], h, loops)))
  elif m :: 'Weight(anything, anything)' then
    foldl(product,
 op(1,m), op(loops)) * integrate(op(2,m), h, loops)
  elif m :: t_pw_or_part then
    Partition:-AppPartOrPw
            ( proc(p)
                if not Partition:-ConditionsDepend(p, lhs~(loops)) then
                    Partition:-Pmap(z->integrate(z,h,loops),p)
                end if;
              end proc
            , m, ['no_split_disj']);
  elif m :: t_case and not depends(op(1,m), map(lhs, loops)) then
    subsop(2=map(proc(b :: Branch(anything, anything))
                eval(subsop(2='integrate'(op(2,b), x, loops),b), x=h)
              end proc,
              op(2,m)),
          m);
  elif m :: 'LO(name, anything)' then
    eval(op(2,m), op(1,m) = h)
  elif m :: 'Plate(nonnegint, name, anything)' then
    # Unroll Plate when the bound is known. We unroll Plate here (instead
    # of unrolling Ints in reduce, for example) because we have no other
    # way to integrate certain Plates, namely those whose
 bodies' control
    # flows depend on the index.
    x := mk_sym('pp', h);
    x := [seq(cat(x,i), i=0..op(1,m)-1)];
    if op(1,m) = 0 then
      res := undefined;
    else
      if op(1,m) = 1 then
        res := op(1,x);
      else
         res := idx(x,op(2,m));
#         res := piecewise(seq(op([op(2,m)=i-1, op(i,x)]), i=2..op(1,m)),
#                      op(1,x));
      end if;
      res := mk_idx(res, loops);
    end if;
```

```
    res := applyintegrand(h, mk_ary('ary'(op(1,m), op(2,m), res), loops));
    for i from op(1,m) to 1 by -1 do
      res := integrate(eval(op(3,m), op(2,m)=i-1),
                    Integrand(op(i,x), res), loops);
    end do;
    res
  elif m :: 'Plate(anything, name, anything)' then
    integrate(op(3,m), h, [op(2,m)=0..op(1,m)-1, op(loops)])
  elif m :: 'Context(anything, anything)' then
    applyop(integrate, 2, m, h, loops)
  elif h :: appliable then
    x := gensym('xa');
    'integrate'(m, Integrand(x,
 h(x)), loops)
  else
    'procname(_passed)'
  end if
 end proc;


 local
 integrate_known := proc(make, makes, var, m, h, loops :: list(name=range), $)
  local x, dens, bds;
  x := mk_sym(var, h);
  dens := density[op(0,m)](op(m));
  bds := bounds[op(0,m)](op(m));
  if loops = [] then
    make(dens(x) * applyintegrand(h, x), x = bds);
  else
    makes(foldl(product, dens(mk_idx(x,loops)), op(loops))
          * applyintegrand(h, x),
         x, bds, loops)
  end if;
 end proc;
end module; #toLO
'# Teach Maple (through depends and eval) about our new binding forms.\n' Comment.Single

'# forall bind from 1st arg to 2nd arg.\n' Comment.Single

'# Ints,Sums,ints,sums bind from 2nd arg to 1st arg, and also from each element\n' Comment.Single

'#   of the 4th arg to the other elements on the left and to the 3rd arg.\n' Comment.Single

'\n'         Text.Whitespace

'`depends/forall`' Name
' '          Text.Whitespace
':='         Operator
```

```
' '          Text.Whitespace
'proc'       Keyword
'('          Punctuation
'bvar'       Name
','          Operator
' '          Text.Whitespace
'pred'       Name
','          Operator
' '          Text.Whitespace
'x'          Name
','          Operator
' '          Text.Whitespace
'$'          Operator
')'          Punctuation
'\n  '       Text.Whitespace
'depends'    Name
'('          Punctuation
'pred'       Name
','          Operator
' '          Text.Whitespace
'x'          Name
' '          Text.Whitespace
'minus'
  Keyword
' '          Text.Whitespace
'convert'    Name.Builtin
'('          Punctuation
'bvar'       Name
','          Operator
' '          Text.Whitespace
'"'          Punctuation
'set'        Name
'"'          Punctuation
'))'         Punctuation
'\n'         Text.Whitespace

'end'        Keyword
' '          Text.Whitespace
'proc'       Keyword
':'          Operator
'\n\n'       Text.Whitespace

'`depends/Ints`' Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'proc'       Keyword
'('          Punctuation
```

'body' Name
',' Operator
' ' Text.Whitespace
'bvar' Name
',' Operator
' ' Text.Whitespace
'rng' Name
',' Operator
' ' Text.Whitespace
'loops' Name
',' Operator
' ' Text.Whitespace
'x' Name
',' Operator
' ' Text.Whitespace
'y' Name
',' Operator
' ' Text.Whitespace
'$'
Operator
')' Punctuation
'\n ' Text.Whitespace
'local' Keyword
' ' Text.Whitespace
'xx' Name
',' Operator
' ' Text.Whitespace
'i' Name
';' Punctuation
'\n ' Text.Whitespace
'if' Keyword
' ' Text.Whitespace
'nargs' Name
' ' Text.Whitespace
'=' Operator
' ' Text.Whitespace
'5' Literal.Number.Integer
' ' Text.Whitespace
'then' Keyword
'\n ' Text.Whitespace
'xx' Name
' ' Text.Whitespace
':=' Operator
' ' Text.Whitespace
'x' Name
';' Punctuation
' ' Text.Whitespace
'# y is ununsed and x lists the variables to look for\n' Comment.Single

```
' '          Text.Whitespace
'else'        Keyword
'\n    '      Text.Whitespace
'xx'          Name
' '          Text.Whitespace
':='          Operator
' '          Text.Whitespace
'y'
     Name
';'          Punctuation
' '          Text.Whitespace
'# x is some KB and y lists the variables to look for\n' Comment.Single

'    '       Text.Whitespace
'if'          Keyword
' '          Text.Whitespace
'depends'     Name
'('          Punctuation
'x'           Name
','          Operator
' '          Text.Whitespace
'y'           Name
')'          Punctuation
' '          Text.Whitespace
'then'        Keyword
' '          Text.Whitespace
'return'      Keyword
' '          Text.Whitespace
'true'        Name
' '          Text.Whitespace
'end'         Keyword
' '          Text.Whitespace
'if'          Keyword
';'          Punctuation
'\n  '        Text.Whitespace
'end'         Keyword
' '          Text.Whitespace
'if'          Keyword
';'          Punctuation
'\n  '        Text.Whitespace
"# don't remove bvar from xx!\n" Comment.Single

' '          Text.Whitespace
'if'          Keyword
' '          Text.Whitespace
'depends'     Name
'('          Punctuation
```

```
'body'
        Name
','          Operator
' '          Text.Whitespace
'xx'          Name
' '          Text.Whitespace
'minus'       Keyword
' '          Text.Whitespace
'{'          Punctuation
'bvar'        Name
'})'         Punctuation
' '          Text.Whitespace
'then'        Keyword
' '          Text.Whitespace
'return'      Keyword
' '          Text.Whitespace
'true'        Name
' '          Text.Whitespace
'end'         Keyword
' '          Text.Whitespace
'if'         Keyword
';'          Punctuation
'\n  '       Text.Whitespace
'for'         Keyword
' '          Text.Whitespace
'i'          Name
' '          Text.Whitespace
'from'        Keyword
' '          Text.Whitespace
'nops'        Name.Builtin
'('          Punctuation
'loops'       Name
')'          Punctuation
' '          Text.Whitespace
'to'          Keyword
' '          Text.Whitespace
'1'          Literal.Number.Integer
' '          Text.Whitespace
'by'          Keyword
' '          Text.Whitespace
'-'
          Operator
'1'          Literal.Number.Integer
' '          Text.Whitespace
'do'          Keyword
'\n    '      Text.Whitespace
'if'         Keyword
' '          Text.Whitespace
```

```
'depends'     Name
'('           Punctuation
'op'          Name.Builtin
'(['          Punctuation
'i'           Name
','           Operator
'2'           Literal.Number.Integer
']'           Punctuation
','           Operator
'loops'       Name
')'           Punctuation
','           Operator
' '           Text.Whitespace
'xx'          Name
')'           Punctuation
' '           Text.Whitespace
'then'        Keyword
' '           Text.Whitespace
'return'      Keyword
' '           Text.Whitespace
'true'        Name
' '           Text.Whitespace
'end'         Keyword
' '           Text.Whitespace
'if'          Keyword
';'           Punctuation
'\n    '      Text.Whitespace
'xx'          Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'xx'
   Name
' '           Text.Whitespace
'minus'       Keyword
' '           Text.Whitespace
'{'           Punctuation
'op'          Name.Builtin
'(['          Punctuation
'i'           Name
','           Operator
'1'           Literal.Number.Integer
']'           Punctuation
','           Operator
'loops'       Name
')};'         Punctuation
'\n  '        Text.Whitespace
'end'         Keyword
```

```
' '          Text.Whitespace
'do'         Keyword
';'          Punctuation
'\n  '       Text.Whitespace
'depends'    Name
'('          Punctuation
'rng'        Name
','          Operator
' '          Text.Whitespace
'xx'         Name
')'          Punctuation
'\n'         Text.Whitespace

'end'        Keyword
' '          Text.Whitespace
'proc'       Keyword
':'          Operator
'\n'         Text.Whitespace

'`depends/Sums`' Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'eval'       Name.Builtin
'('          Punctuation
'`depends/Ints`' Name
')'
          Punctuation
':'          Operator
'\n'         Text.Whitespace

'`depends/ints`' Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'eval'       Name.Builtin
'('          Punctuation
'`depends/Ints`' Name
')'          Punctuation
':'          Operator
'\n'         Text.Whitespace

'`depends/sums`' Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'eval'       Name.Builtin
'('          Punctuation
```

```
'`depends/Ints`' Name
')'          Punctuation
':'          Operator
'\n\n'       Text.Whitespace

'`eval/forall`' Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'proc'       Keyword
'('          Punctuation
'e'          Name
','          Operator
' '          Text.Whitespace
'eqs'        Name
','          Operator
' '          Text.Whitespace
'$'          Operator
')'          Punctuation
'\n  '       Text.Whitespace
'local'      Keyword
'
 '           Text.Whitespace
'bvar'       Name
','          Operator
' '          Text.Whitespace
'pred'       Name
';'          Punctuation
'\n  '       Text.Whitespace
'bvar'       Name
','          Operator
' '          Text.Whitespace
'pred'       Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'op'         Name.Builtin
'('          Punctuation
'e'          Name
');'         Punctuation
'\n  '       Text.Whitespace
'eval'       Name.Builtin
'('          Punctuation
'op'         Name.Builtin
'('          Punctuation
'0'          Literal.Number.Integer
','          Operator
'e'          Name
```

```
')'          Punctuation
','          Operator
' '          Text.Whitespace
'eqs'        Name
')('         Punctuation
'BindingTools' Name
':'          Operator
'-'          Operator
'generic_evalat' Name
'('          Punctuation
'bvar'       Name
','          Operator
' '          Text.Whitespace
'pred'       Name
','
      Operator
' '          Text.Whitespace
'eqs'        Name
'))'         Punctuation
'\n'         Text.Whitespace

'end'        Keyword
' '          Text.Whitespace
'proc'       Keyword
':'          Operator
'\n\n'       Text.Whitespace

'`eval/Ints`' Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'proc'       Keyword
'('          Punctuation
'e'          Name
','          Operator
' '          Text.Whitespace
'eqs'        Name
','          Operator
' '          Text.Whitespace
'$'          Operator
')'          Punctuation
'\n  '       Text.Whitespace
'local'      Keyword
' '          Text.Whitespace
'body'       Name
','          Operator
' '          Text.Whitespace
'bvar'       Name
```

```
','          Operator
' '          Text.Whitespace
'rng'        Name
','          Operator
' '          Text.Whitespace
'loops'      Name
','          Operator
' '          Text.Whitespace
'n'          Name
','          Operator
'
 '           Text.Whitespace
'i'          Name
';'          Punctuation
'\n  '       Text.Whitespace
'body'       Name
','          Operator
' '          Text.Whitespace
'bvar'       Name
','          Operator
' '          Text.Whitespace
'rng'        Name
','          Operator
' '          Text.Whitespace
'loops'      Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'op'         Name.Builtin
'('          Punctuation
'1'          Literal.Number.Integer
'..'         Punctuation
'4'          Literal.Number.Integer
','          Operator
' '          Text.Whitespace
'e'          Name
');'         Punctuation
'\n  '       Text.Whitespace
'bvar'       Name
','          Operator
' '          Text.Whitespace
'body'       Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'BindingTools' Name
':'          Operator
'-'          Operator
```

```
'generic_evalat' Name
'('          Punctuation
'bvar'
        Name
','          Operator
' '          Text.Whitespace
'body'        Name
','          Operator
' '          Text.Whitespace
'eqs'         Name
');'         Punctuation
'\n  '       Text.Whitespace
'eval'        Name.Builtin
'('          Punctuation
'op'          Name.Builtin
'('          Punctuation
'0'           Literal.Number.Integer
','          Operator
'e'           Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'eqs'         Name
')('         Punctuation
'body'        Name
','          Operator
' '          Text.Whitespace
'bvar'        Name
','          Operator
'\n                    ' Text.Whitespace
'BindingTools' Name
':'          Operator
'-'          Operator
'generic_evalatstar' Name
'('          Punctuation
'rng'         Name
','          Operator
' '          Text.Whitespace
'loops'       Name
','          Operator
' '          Text.Whitespace
'eqs'         Name
')'          Punctuation
','
  Operator
'\n                    ' Text.Whitespace
'op'          Name.Builtin
'('          Punctuation
```

```
'5'          Literal.Number.Integer
'..'         Punctuation
'-'          Operator
'1'          Literal.Number.Integer
','          Operator
'e'          Name
'))'         Punctuation
'\n'         Text.Whitespace

'end'        Keyword
' '          Text.Whitespace
'proc'       Keyword
':'          Operator
'\n'         Text.Whitespace

'`eval/Sums`' Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'eval'       Name.Builtin
'('          Punctuation
'`eval/Ints`' Name
')'          Punctuation
':'          Operator
'\n'         Text.Whitespace

'`eval/ints`' Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'eval'       Name.Builtin
'('          Punctuation
'`eval/Ints`' Name
')'          Punctuation
':'          Operator
'\n'         Text.Whitespace

'`eval/sums`' Name
' '          Text.Whitespace
':='
         Operator
' '          Text.Whitespace
'eval'       Name.Builtin
'('          Punctuation
'`eval/Ints`' Name
')'          Punctuation
':'          Operator
'\n\n'       Text.Whitespace
```

```
'`eval/Int`'  Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'proc'       Keyword
'('          Punctuation
'e'          Name
','          Operator
' '          Text.Whitespace
'eqs'        Name
','          Operator
' '          Text.Whitespace
'$'          Operator
')'          Punctuation
'\n  '       Text.Whitespace
'local'      Keyword
' '          Text.Whitespace
'body'       Name
','          Operator
' '          Text.Whitespace
'bound'      Name
','          Operator
' '          Text.Whitespace
'bvar'       Name
';'          Punctuation
'\n  '       Text.Whitespace
'body'       Name
','          Operator
' '          Text.Whitespace
'bound'      Name
' '          Text.Whitespace
':='         Operator
'
 '          Text.Whitespace
'op'         Name.Builtin
'('          Punctuation
'1'          Literal.Number.Integer
'..'         Punctuation
'2'          Literal.Number.Integer
','          Operator
' '          Text.Whitespace
'e'          Name
');'         Punctuation
'\n  '       Text.Whitespace
'if'         Keyword
' '          Text.Whitespace
'bound'      Name
```

```
' '          Text.Whitespace
'::'         Operator
' '          Text.Whitespace
'name'       Name
' '          Text.Whitespace
'then'       Keyword
'\n    '     Text.Whitespace
'bound'      Name
','          Operator
' '          Text.Whitespace
'body'       Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'BindingTools' Name
':'          Operator
'-'          Operator
'generic_evalat' Name
'('          Punctuation
'bound'      Name
','          Operator
' '          Text.Whitespace
'body'       Name
','          Operator
' '          Text.Whitespace
'eqs'
        Name
');'         Punctuation
'\n  '       Text.Whitespace
'elif'       Keyword
' '          Text.Whitespace
'bound'      Name
' '          Text.Whitespace
'::'         Operator
' '          Text.Whitespace
'`=`'        Name
' '          Text.Whitespace
'then'       Keyword
'\n    '     Text.Whitespace
'bvar'       Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'lhs'        Name.Builtin
'('          Punctuation
'bound'      Name
');'         Punctuation
'\n    '     Text.Whitespace
```

```
'bvar'        Name
','           Operator
' '           Text.Whitespace
'body'        Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'BindingTools' Name
':'           Operator
'-'           Operator
'generic_evalat' Name
'('           Punctuation
'bvar'        Name
','           Operator
' '           Text.Whitespace
'body'        Name
','           Operator
' '           Text.Whitespace
'eqs'
         Name
');'          Punctuation
'\n    '      Text.Whitespace
'bound'       Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'bvar'        Name
' '           Text.Whitespace
'='           Operator
' '           Text.Whitespace
'eval'        Name.Builtin
'('           Punctuation
'rhs'         Name.Builtin
'('           Punctuation
'bound'       Name
')'           Punctuation
','           Operator
' '           Text.Whitespace
'eqs'         Name
');'          Punctuation
'\n  '        Text.Whitespace
'else'        Keyword
'\n    '      Text.Whitespace
'body'        Name
','           Operator
' '           Text.Whitespace
'bound'       Name
' '           Text.Whitespace
```

```
':='          Operator
' '           Text.Whitespace
'BindingTools' Name
':'           Operator
'-'           Operator
'generic_evalatstar' Name
'('           Punctuation
'body'        Name
','           Operator
' '           Text.Whitespace
'bound'       Name
','
   Operator
' '           Text.Whitespace
'eqs'         Name
');'          Punctuation
'\n  '        Text.Whitespace
'end'         Keyword
' '           Text.Whitespace
'if'          Keyword
';'           Punctuation
'\n  '        Text.Whitespace
'eval'        Name.Builtin
'('           Punctuation
'op'          Name.Builtin
'('           Punctuation
'0'           Literal.Number.Integer
','           Operator
'e'           Name
')'           Punctuation
','           Operator
' '           Text.Whitespace
'eqs'         Name
')('          Punctuation
'body'        Name
','           Operator
' '           Text.Whitespace
'bound'       Name
','           Operator
' '           Text.Whitespace
'op'          Name.Builtin
'('           Punctuation
'eval'        Name.Builtin
'(['          Punctuation
'op'          Name.Builtin
'('           Punctuation
'3'           Literal.Number.Integer
'..'          Punctuation
```

```
'-'         Operator
'1'         Literal.Number.Integer
','         Operator
'e'
         Name
')]'        Punctuation
','         Operator
' '         Text.Whitespace
'eqs'       Name
')))'       Punctuation
'\n'        Text.Whitespace

'end'       Keyword
' '         Text.Whitespace
'proc'      Keyword
':'         Operator
'\n'        Text.Whitespace

'`eval/Sum`'  Name
'    '      Text.Whitespace
':='        Operator
' '         Text.Whitespace
'eval'      Name.Builtin
'('         Punctuation
'`eval/Int`'  Name
')'         Punctuation
':'         Operator
'\n'        Text.Whitespace

'`eval/Product`' Name
' '         Text.Whitespace
':='        Operator
' '         Text.Whitespace
'eval'      Name.Builtin
'('         Punctuation
'`eval/Int`'  Name
')'         Punctuation
':'         Operator
'\n'        Text.Whitespace

'`eval/int`'  Name
'    '      Text.Whitespace
':='        Operator
' '         Text.Whitespace
'eval'      Name.Builtin
'('         Punctuation
'`eval/Int`'  Name
')'
```

```
    Punctuation
':'         Operator
'\n'        Text.Whitespace

'`eval/sum`'  Name
'    '      Text.Whitespace
':='        Operator
' '         Text.Whitespace
'eval'      Name.Builtin
'('         Punctuation
'`eval/Int`'  Name
')'         Punctuation
':'         Operator
'\n'        Text.Whitespace

'`eval/product`' Name
' '         Text.Whitespace
':='        Operator
' '         Text.Whitespace
'eval'      Name.Builtin
'('         Punctuation
'`eval/Int`'  Name
')'         Punctuation
':'         Operator
'\n\n'      Text.Whitespace

'################################################################################\n' Comment.Single

'\n'        Text.Whitespace

'Loop'      Name
' '         Text.Whitespace
':='        Operator
' '         Text.Whitespace
'module'    Keyword
' '         Text.Whitespace
'()'        Punctuation
'\n  '      Text.Whitespace
'option'    Keyword
' '         Text.Whitespace
'package'   Name
';'
    Punctuation
'\n  '      Text.Whitespace
'local'     Keyword
' '         Text.Whitespace
'intssums'  Name
','         Operator
```

' ' Text.Whitespace
'enter_piecewise' Name
',' Operator
' ' Text.Whitespace
'wrap' Name
',' Operator
'\n ' Text.Whitespace
't_peel' Name
',' Operator
' ' Text.Whitespace
'do_peel' Name
',' Operator
' ' Text.Whitespace
'do_split' Name
',' Operator
' ' Text.Whitespace
'do_graft' Name
',' Operator
' ' Text.Whitespace
'do_rebase_lower' Name
',' Operator
' ' Text.Whitespace
'do_rebase_upper' Name
',' Operator
'\n ' Text.Whitespace
'Binder' Name
',' Operator
' ' Text.Whitespace
'Stmt' Name
',' Operator
' ' Text.Whitespace
't_binder' Name
',' Operator
' ' Text.Whitespace
't_stmt' Name
','
Operator
' ' Text.Whitespace
't_exp' Name
',' Operator
'\n ' Text.Whitespace
'ModuleLoad' Name
';' Punctuation
'\n ' Text.Whitespace
'export' Keyword
'\n ' Text.Whitespace
'# These first few are smart constructors (for themselves):\n' Comment.Single

```
'        '   Text.Whitespace
'ints'        Name
','           Operator
' '           Text.Whitespace
'sums'        Name
','           Operator
'\n     '     Text.Whitespace
'# while these are "proper functions"\n' Comment.Single

'        '   Text.Whitespace
'mk_HArray'   Name
','           Operator
' '           Text.Whitespace
'genLoop'     Name
','           Operator
' '           Text.Whitespace
'unproducts'  Name
','           Operator
' '           Text.Whitespace
'unproduct'   Name
','           Operator
'\n         ' Text.Whitespace
'peel'        Name
','           Operator
' '           Text.Whitespace
'split'       Name
','           Operator
' '
    Text.Whitespace
'graft'       Name
','           Operator
' '           Text.Whitespace
'rebase_lower' Name
','           Operator
' '           Text.Whitespace
'rebase_upper' Name
','           Operator
' '           Text.Whitespace
'Print'       Name
';'           Punctuation
'\n  '        Text.Whitespace
'# these names are not assigned (and should not be).  But they are\n' Comment.Single

' '           Text.Whitespace
'# used as global names, so document that here.\n' Comment.Single

' '           Text.Whitespace
'global'      Keyword
```

```
' '          Text.Whitespace
'Ints'       Name
','          Operator
' '          Text.Whitespace
'Sums'       Name
','          Operator
' '          Text.Whitespace
'csgn'       Name
','          Operator
' '          Text.Whitespace
'sum'        Name
','          Operator
' '          Text.Whitespace
'signum'     Name
';'          Punctuation
'\n  '       Text.Whitespace
'uses'       Keyword
' '          Text.Whitespace
'Hakaru'
     Name
','          Operator
' '          Text.Whitespace
'KB'         Name
','          Operator
' '          Text.Whitespace
'Utilities'  Name
';'          Punctuation
'\n\n  '     Text.Whitespace
't_binder'   Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'"'          Punctuation
'Binder'     Name
'('          Punctuation
'identical'  Name
'('          Punctuation
'product'    Name
','          Operator
' '          Text.Whitespace
'Product'    Name
','          Operator
' '          Text.Whitespace
'sum'        Name
','          Operator
' '          Text.Whitespace
'Sum'        Name
')'          Punctuation
```

```
','          Operator
' '          Text.Whitespace
't_kb'       Name
')'          Punctuation
"""          Punctuation
';'          Punctuation
'\n  '       Text.Whitespace
't_stmt'     Name
'   '        Text.Whitespace
':='         Operator
' '          Text.Whitespace
"""          Punctuation
'Stmt'
       Name
'('          Punctuation
'anything'   Name
','          Operator
' '          Text.Whitespace
'list'       Name
','          Operator
' '          Text.Whitespace
'list'       Name
')'          Punctuation
"""          Punctuation
';'          Punctuation
'\n  '       Text.Whitespace
't_exp'      Name
'    '       Text.Whitespace
':='         Operator
' '          Text.Whitespace
"""          Punctuation
'{'          Punctuation
'Stmt'       Name
'('          Punctuation
'identical'  Name
'('          Punctuation
'exp'        Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'[]'         Punctuation
','          Operator
' '          Text.Whitespace
'[])'        Punctuation
','          Operator
'\n              ' Text.Whitespace
'Stmt'       Name
'('          Punctuation
```

```
'identical'   Name
'('           Punctuation
'`^`'         Name
')'           Punctuation
','           Operator
' '           Text.Whitespace
'['
           Punctuation
'anything'    Name
']'           Punctuation
','           Operator
' '           Text.Whitespace
'[])}'        Punctuation
'"'           Punctuation
';'           Punctuation
'\n\n  '      Text.Whitespace
'ints'        Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'proc'        Keyword
'()'          Punctuation
' '           Text.Whitespace
'intssums'    Name
'('           Punctuation
'"'           Punctuation
'ints'        Name
'"'           Punctuation
','           Operator
' '           Text.Whitespace
'"'           Punctuation
'int'         Name
'"'           Punctuation
','           Operator
' '           Text.Whitespace
'_passed'     Name
')'           Punctuation
' '           Text.Whitespace
'end'         Keyword
' '           Text.Whitespace
'proc'        Keyword
';'           Punctuation
'\n  '        Text.Whitespace
'sums'        Name
' '           Text.Whitespace
':='          Operator
' '
```

```
    Text.Whitespace
'proc'      Keyword
'()'        Punctuation
' '         Text.Whitespace
'intssums'  Name
'('         Punctuation
'"'         Punctuation
'sums'      Name
'"'         Punctuation
','         Operator
' '         Text.Whitespace
'"'         Punctuation
'sum'       Name
'"'         Punctuation
','         Operator
' '         Text.Whitespace
'_passed'   Name
')'         Punctuation
' '         Text.Whitespace
'end'       Keyword
' '         Text.Whitespace
'proc'      Keyword
';'         Punctuation
'\n\n  '    Text.Whitespace
'Print'     Name
' '         Text.Whitespace
':='        Operator
' '         Text.Whitespace
'proc'      Keyword
'('         Punctuation
'kind'      Name
'::'        Operator
'identical' Name
'('         Punctuation
'Ints'      Name
','         Operator
'Sums'      Name
','         Operator
'ints'      Name
','         Operator
'sums'      Name
')'         Punctuation
','
        Operator
'e'         Name
','         Operator
'v'         Name
'::'        Operator
```

```
'name'        Name
','           Operator
'r0'          Name
'::'          Operator
'range'       Name
','           Operator
'rs'          Name
'::'          Operator
'list'        Name
'('           Punctuation
'name'        Name
'='           Operator
'range'       Name
')'           Punctuation
','           Operator
'$'           Operator
')'           Punctuation
'\n    '      Text.Whitespace
'local'       Keyword
' '           Text.Whitespace
'k'           Name
';'           Punctuation
'\n    '      Text.Whitespace
'k'           Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'StringTools' Name
'['           Punctuation
'Capitalize'  Name
']('          Punctuation
'StringTools' Name
'['           Punctuation
'Chop'        Name
']('          Punctuation
'convert'     Name.Builtin
'('           Punctuation
'kind'        Name
','
          Operator
'string'      Name
')));'        Punctuation
'\n    '      Text.Whitespace
'k'           Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'parse'       Name.Builtin
```

```
'('          Punctuation
'cat'        Name.Builtin
'('          Punctuation
'"`print/"'  Literal.String
','          Operator
'eval'       Name.Builtin
'('          Punctuation
'k'          Name
')'          Punctuation
','          Operator
'"`"'        Literal.String
'));'        Punctuation
'\n    '     Text.Whitespace
'eval'       Name.Builtin
'('          Punctuation
'k'          Name
')('         Punctuation
'e'          Name
','          Operator
'v'          Name
'['          Punctuation
'op'         Name.Builtin
'('          Punctuation
'rs'         Name
')]'         Punctuation
'='          Operator
'r0'         Name
');'         Punctuation
'\n  '       Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'proc'
      Keyword
';'          Punctuation
'\n\n  '     Text.Whitespace
'intssums'   Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'proc'       Keyword
'('          Punctuation
'makes'      Name
'::'         Operator
'name'       Name
','          Operator
' '          Text.Whitespace
'make'       Name
'::'         Operator
```

```
'name'        Name
','           Operator
'\n                  ' Text.Whitespace
'e'           Name
'::'          Operator
'anything'    Name
','           Operator
' '           Text.Whitespace
'x'           Name
'::'          Operator
'name'        Name
','           Operator
' '           Text.Whitespace
'rr'          Name
'::'          Operator
'range'       Name
','           Operator
' '           Text.Whitespace
'll'          Name
'::'          Operator
'list'        Name
'('           Punctuation
'name'        Name
'='           Operator
'range'       Name
')'           Punctuation
','           Operator
'\n
                    ' Text.Whitespace
'kb'          Name
'::'          Operator
't_kb'        Name
':='          Operator
'empty'       Name
','           Operator
' '           Text.Whitespace
'$'           Operator
')'           Punctuation
'\n    '      Text.Whitespace
'local'       Keyword
' '           Text.Whitespace
't'           Name
','           Operator
' '           Text.Whitespace
'r'           Name
','           Operator
' '           Text.Whitespace
'l'           Name
```

```
','         Operator
' '         Text.Whitespace
'kb2'       Name
','         Operator
' '         Text.Whitespace
'w0'        Name
','         Operator
' '         Text.Whitespace
'pp'        Name
','         Operator
' '         Text.Whitespace
'i'         Name
';'         Punctuation
'\n    '    Text.Whitespace
't'         Name
' '         Text.Whitespace
':='        Operator
' '         Text.Whitespace
'`if`'      Name
'('         Punctuation
'make'      Name
'='
        Operator
'int'       Name
','         Operator
' '         Text.Whitespace
'HReal'     Name
'('         Punctuation
'open_bounds' Name
'('         Punctuation
'rr'        Name
'))'        Punctuation
','         Operator
' '         Text.Whitespace
'HInt'      Name
'('         Punctuation
'closed_bounds' Name
'('         Punctuation
'rr'        Name
')));'      Punctuation
'\n    '    Text.Whitespace
'r'         Name
','         Operator
' '         Text.Whitespace
'l'         Name
','         Operator
' '         Text.Whitespace
'kb2'       Name
```

```
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'genLoop'    Name
'('          Punctuation
'rr'         Name
','          Operator
' '          Text.Whitespace
'll'         Name
','          Operator
' '          Text.Whitespace
'kb'         Name
','          Operator
' '          Text.Whitespace
'"'          Punctuation
'Integrand'  Name
'"'
          Punctuation
'('          Punctuation
'x'          Name
','          Operator
'e'          Name
'));'        Punctuation
'\n    '     Text.Whitespace
'w0'         Name
','          Operator
' '          Text.Whitespace
'pp'         Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'unproducts' Name
'('          Punctuation
'e'          Name
','          Operator
' '          Text.Whitespace
'x'          Name
','          Operator
' '          Text.Whitespace
'l'          Name
','          Operator
' '          Text.Whitespace
'kb2'        Name
');'         Punctuation
'\n    '     Text.Whitespace
'if'         Keyword
' '          Text.Whitespace
'depends'    Name
```

```
'('          Punctuation
'w0'         Name
','          Operator
' '          Text.Whitespace
'x'          Name
')'          Punctuation
' '          Text.Whitespace
'then'       Keyword
'\n    '     Text.Whitespace
'"'          Punctuation
'makes'
      Name
'('          Punctuation
'e'          Name
','          Operator
' '          Text.Whitespace
'x'          Name
','          Operator
' '          Text.Whitespace
'rr'         Name
','          Operator
' '          Text.Whitespace
'll'         Name
')'          Punctuation
'"'          Punctuation
'\n    '     Text.Whitespace
'else'       Keyword
'\n    '     Text.Whitespace
'pp'         Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'"'          Punctuation
'make'       Name
'"'          Punctuation
'('          Punctuation
'pp'         Name
','          Operator
' '          Text.Whitespace
'x'          Name
'='          Operator
'r'          Name
');'         Punctuation
'\n    '     Text.Whitespace
'for'        Keyword
' '          Text.Whitespace
'i'          Name
' '          Text.Whitespace
```

```
'in'          Keyword
' '           Text.Whitespace
'l'           Name
' '           Text.Whitespace
'do'
          Keyword
' '           Text.Whitespace
'pp'          Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'"'           Punctuation
'product'     Name
'"'           Punctuation
'('           Punctuation
'pp'          Name
','           Operator
' '           Text.Whitespace
'i'           Name
')'           Punctuation
' '           Text.Whitespace
'end'         Keyword
' '           Text.Whitespace
'do'          Keyword
';'           Punctuation
'\n     '     Text.Whitespace
'NewSLO'      Name
':'           Operator
'-'           Operator
'simplify_factor_assuming' Name
'('           Punctuation
'w0'          Name
' '           Text.Whitespace
'*'           Operator
' '           Text.Whitespace
'pp'          Name
','           Operator
' '           Text.Whitespace
'kb'          Name
');'          Punctuation
'\n    '      Text.Whitespace
'end'         Keyword
' '           Text.Whitespace
'if'          Keyword
'\n  '        Text.Whitespace
'end'
          Keyword
' '           Text.Whitespace
```

```
'proc'        Keyword
';'           Punctuation
'\n\n  '      Text.Whitespace
'mk_HArray'   Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'proc'        Keyword
'('           Punctuation
't'           Name
'::'          Operator
't_type'      Name
','           Operator
' '           Text.Whitespace
'loops'       Name
'::'          Operator
'list'        Name
'('           Punctuation
'name'        Name
'='           Operator
'range'       Name
')'           Punctuation
','           Operator
' '           Text.Whitespace
'$'           Operator
')'           Punctuation
'\n    '      Text.Whitespace
'local'       Keyword
' '           Text.Whitespace
'res'         Name
','           Operator
' '           Text.Whitespace
'i'           Name
';'           Punctuation
'\n    '      Text.Whitespace
'res'         Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
't'
          Name
';'           Punctuation
'\n    '      Text.Whitespace
'for'         Keyword
' '           Text.Whitespace
'i'           Name
' '           Text.Whitespace
'in'          Keyword
```

```
' '          Text.Whitespace
'loops'      Name
' '          Text.Whitespace
'do'         Keyword
' '          Text.Whitespace
'res'        Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'HArray'     Name
'('          Punctuation
'res'        Name
')'          Punctuation
' '          Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'do'         Keyword
';'          Punctuation
'\n    '     Text.Whitespace
'res'        Name
'\n  '       Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'proc'       Keyword
';'          Punctuation
'\n\n  '     Text.Whitespace
'genLoop'    Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'proc'       Keyword
'('
        Punctuation
'e'          Name
','          Operator
' '          Text.Whitespace
'loops'      Name
'::'         Operator
'list'       Name
'('          Punctuation
'name'       Name
'='          Operator
'range'      Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'kb'         Name
'::'         Operator
```

```
't_kb'        Name
')'           Punctuation
'\n    '      Text.Whitespace
'local'       Keyword
' '           Text.Whitespace
'kb1'         Name
','           Operator
' '           Text.Whitespace
'rng'         Name
','           Operator
' '           Text.Whitespace
'ind'         Name
','           Operator
' '           Text.Whitespace
'do_subst'    Name
','           Operator
' '           Text.Whitespace
'i'           Name
';'           Punctuation
'\n    '      Text.Whitespace
'kb1'         Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'kb'          Name
';'           Punctuation
'\n
    '      Text.Whitespace
'rng'         Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'table'       Name.Builtin
'();'         Punctuation
'\n    '      Text.Whitespace
'ind'         Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'table'       Name.Builtin
'();'         Punctuation
'\n    '      Text.Whitespace
'do_subst'    Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'e'           Name
' '           Text.Whitespace
```

```
'->'        Operator
' '         Text.Whitespace
'foldl'     Name
'((('       Punctuation
'e'         Name
','         Operator
'eq'        Name
')'         Punctuation
' '         Text.Whitespace
'->'        Operator
' '         Text.Whitespace
'eval'      Name.Builtin
'('         Punctuation
'e'         Name
','         Operator
' '         Text.Whitespace
'op'        Name.Builtin
'(['        Punctuation
'lhs'
        Name.Builtin
'('         Punctuation
'eq'        Name
')'         Punctuation
','         Operator
'1'         Literal.Number.Integer
']'         Punctuation
','         Operator
'loops'     Name
')'         Punctuation
'='         Operator
'rhs'       Name.Builtin
'('         Punctuation
'eq'        Name
')))'       Punctuation
','         Operator
'\n                     ' Text.Whitespace
'e'         Name
','         Operator
' '         Text.Whitespace
'entries'   Name.Builtin
'('         Punctuation
'ind'       Name
','         Operator
' '         Text.Whitespace
'"'         Punctuation
'pairs'     Name
'"'         Punctuation
'));'       Punctuation
```

```
'\n    '      Text.Whitespace
'for'         Keyword
' '           Text.Whitespace
'i'           Name
' '           Text.Whitespace
'from'        Keyword
' '           Text.Whitespace
'nops'        Name.Builtin
'('           Punctuation
'loops'       Name
')'
  Punctuation
' '           Text.Whitespace
'to'          Keyword
' '           Text.Whitespace
'1'           Literal.Number.Integer
' '           Text.Whitespace
'by'          Keyword
' '           Text.Whitespace
'-'           Operator
'1'           Literal.Number.Integer
' '           Text.Whitespace
'do'          Keyword
'\n      '    Text.Whitespace
'rng'         Name
'['           Punctuation
'i'           Name
']'           Punctuation
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'do_subst'    Name
'('           Punctuation
'op'          Name.Builtin
'(['          Punctuation
'i'           Name
','           Operator
'2'           Literal.Number.Integer
']'           Punctuation
','           Operator
'loops'       Name
'));'         Punctuation
'\n      '    Text.Whitespace
'ind'         Name
'['           Punctuation
'i'           Name
']'           Punctuation
','           Operator
```

```
' '          Text.Whitespace
'kb1'        Name
' '
      Text.Whitespace
':='         Operator
' '          Text.Whitespace
'genType'    Name
'('          Punctuation
'op'         Name.Builtin
'(['         Punctuation
'i'          Name
','          Operator
'1'          Literal.Number.Integer
']'          Punctuation
','          Operator
'loops'      Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'HInt'       Name
'('          Punctuation
'closed_bounds' Name
'('          Punctuation
'rng'        Name
'['          Punctuation
'i'          Name
']))'        Punctuation
','          Operator
'\n                          ' Text.Whitespace
'kb1'        Name
','          Operator
' '          Text.Whitespace
'_rest'      Name
');'         Punctuation
'\n    '     Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'do'         Keyword
';'          Punctuation
'\n    '     Text.Whitespace
'do_subst'   Name
'('          Punctuation
'e'          Name
')'
          Punctuation
','          Operator
' '          Text.Whitespace
'zip'        Name
```

```
'('          Punctuation
'`=`'        Name
','          Operator
' '          Text.Whitespace
'['          Punctuation
'entries'    Name.Builtin
'('          Punctuation
'ind'        Name
','          Operator
' '          Text.Whitespace
'"'          Punctuation
'nolist'     Name
'"'          Punctuation
')]'         Punctuation
','          Operator
'\n                    ' Text.Whitespace
'['          Punctuation
'entries'    Name.Builtin
'('          Punctuation
'rng'        Name
','          Operator
' '          Text.Whitespace
'"'          Punctuation
'nolist'     Name
'"'          Punctuation
')])'        Punctuation
','          Operator
' '          Text.Whitespace
'kb1'        Name
'\n  '       Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'proc'       Keyword
';'          Punctuation
'\n\n  '     Text.Whitespace
'unproducts'
  Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'proc'       Keyword
'('          Punctuation
'w'          Name
','          Operator
' '          Text.Whitespace
'x'          Name
'::'         Operator
'name'       Name
```

```
','         Operator
' '         Text.Whitespace
'loops'     Name
'::'        Operator
'list'      Name
'('         Punctuation
'name'      Name
'='         Operator
'range'     Name
')'         Punctuation
','         Operator
' '         Text.Whitespace
'kb'        Name
'::'        Operator
't_kb'      Name
','         Operator
' '         Text.Whitespace
'$'         Operator
')'         Punctuation
'\n    '    Text.Whitespace
'local'     Keyword
' '         Text.Whitespace
'w0'        Name
','         Operator
' '         Text.Whitespace
'pp'        Name
','         Operator
' '         Text.Whitespace
'j'         Name
','         Operator
' '         Text.Whitespace
'w1'
        Name
','         Operator
' '         Text.Whitespace
'w2'        Name
','         Operator
' '         Text.Whitespace
'loop'      Name
';'         Punctuation
'\n    '    Text.Whitespace
'w0'        Name
' '         Text.Whitespace
':='        Operator
' '         Text.Whitespace
'1'         Literal.Number.Integer
';'         Punctuation
'\n    '    Text.Whitespace
```

```
'pp'        Name
' '         Text.Whitespace
':='        Operator
' '         Text.Whitespace
'w'         Name
';'         Punctuation
'\n    '    Text.Whitespace
'for'       Keyword
' '         Text.Whitespace
'j'         Name
' '         Text.Whitespace
'from'      Keyword
' '         Text.Whitespace
'nops'      Name.Builtin
'('         Punctuation
'loops'     Name
')'         Punctuation
' '         Text.Whitespace
'to'        Keyword
' '         Text.Whitespace
'1'         Literal.Number.Integer
' '         Text.Whitespace
'by'
        Keyword
' '         Text.Whitespace
'-'         Operator
'1'         Literal.Number.Integer
' '         Text.Whitespace
'do'        Keyword
'\n     '   Text.Whitespace
'w1'        Name
','         Operator
' '         Text.Whitespace
'pp'        Name
' '         Text.Whitespace
':='        Operator
' '         Text.Whitespace
'op'        Name.Builtin
'('         Punctuation
'unproduct'   Name
'('         Punctuation
'pp'        Name
','         Operator
' '         Text.Whitespace
'x'         Name
','         Operator
' '         Text.Whitespace
'op'        Name.Builtin
```

```
'('          Punctuation
'j'          Name
','          Operator
'loops'      Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'[]'         Punctuation
','          Operator
' '          Text.Whitespace
'`*`'        Name
','          Operator
' '          Text.Whitespace
'kb'         Name
','          Operator
'
 '          Text.Whitespace
'kb'         Name
'));'        Punctuation
'\n     '    Text.Whitespace
'# separate out each of the factors in w1, as they might have different\n' Comment.Single

'     '      Text.Whitespace
'# variable dependencies, which can be exploited by other routines\n' Comment.Single

'     '      Text.Whitespace
'w2'         Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'convert'    Name.Builtin
'('          Punctuation
'w1'         Name
','          Operator
' '          Text.Whitespace
'"'          Punctuation
'list'       Name
'"'          Punctuation
','          Operator
' '          Text.Whitespace
'"'          Punctuation
'`*`'        Name
'"'          Punctuation
');'         Punctuation
'\n     '    Text.Whitespace
'for'        Keyword
' '          Text.Whitespace
'loop'       Name
```

```
' '          Text.Whitespace
'in'         Keyword
' '          Text.Whitespace
'['          Punctuation
'op'
         Name.Builtin
'('          Punctuation
'j'          Name
'+'          Operator
'1'          Literal.Number.Integer
'..'         Punctuation
'-'          Operator
'1'          Literal.Number.Integer
','          Operator
' '          Text.Whitespace
'loops'      Name
')]'         Punctuation
' '          Text.Whitespace
'do'         Keyword
'\n       '  Text.Whitespace
'w2'         Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'map'        Name.Builtin
'(('         Punctuation
'w'          Name
' '          Text.Whitespace
'->'         Operator
' '          Text.Whitespace
'product'    Name
'('          Punctuation
'eval'       Name.Builtin
'('          Punctuation
'w'          Name
','          Operator
' '          Text.Whitespace
'x'          Name
'='          Operator
'idx'        Name
'('          Punctuation
'x'          Name
','          Operator
'lhs'        Name.Builtin
'('          Punctuation
'loop'
       Name
')))'        Punctuation
```

```
','         Operator
' '         Text.Whitespace
'loop'      Name
'))'        Punctuation
','         Operator
' '         Text.Whitespace
'w2'        Name
');'        Punctuation
'\n    '    Text.Whitespace
'end'       Keyword
' '         Text.Whitespace
'do'        Keyword
';'         Punctuation
'\n    '    Text.Whitespace
'w0'        Name
' '         Text.Whitespace
':='        Operator
' '         Text.Whitespace
'w0'        Name
' '         Text.Whitespace
'*'         Operator
' '         Text.Whitespace
'`*`'       Name
'('         Punctuation
'op'        Name.Builtin
'('         Punctuation
'w2'        Name
'));'       Punctuation
'\n    '    Text.Whitespace
'# w0 := w0 * foldl(product, w1, op(j+1..-1, loops));\n' Comment.Single

'    '      Text.Whitespace
'end'       Keyword
' '         Text.Whitespace
'do'        Keyword
';'         Punctuation
'\n    '
    Text.Whitespace
'# Rewrite ... * piecewise(i<=kk-1, xs^2, 1)\n' Comment.Single

'    '      Text.Whitespace
'#     to ... * xs ^ (2*piecewise(i<=kk-1, 1))\n' Comment.Single

'    '      Text.Whitespace
'# because the latter is easier to integrate and recognize with respect to xs\n' Comment.Single

'    '      Text.Whitespace
'pp'        Name
```

```
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'for_poly'   Name
'('          Punctuation
'pp'         Name
','          Operator
' '          Text.Whitespace
'# TODO: move this rewrite into eval_factor (then remove for_poly?)?\n' Comment.Single

'    '       Text.Whitespace
'proc'       Keyword
' '          Text.Whitespace
'('          Punctuation
'p'          Name
')'          Punctuation
'\n      '   Text.Whitespace
'local'      Keyword
' '          Text.Whitespace
'n'          Name
','          Operator
' '          Text.Whitespace
's'          Name
','          Operator
' '
      Text.Whitespace
'r'          Name
';'          Punctuation
'\n      '   Text.Whitespace
'if'         Keyword
' '          Text.Whitespace
'p'          Name
' '          Text.Whitespace
'::'         Operator
' '          Text.Whitespace
'"'          Punctuation
'And'        Name
'('          Punctuation
'specfunc'   Name
'('          Punctuation
'piecewise'  Name.Builtin
')'          Punctuation
','          Operator
' '          Text.Whitespace
'anyfunc'    Name
'('          Punctuation
'freeof'     Name
'('          Punctuation
```

```
'x'          Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'anything'   Name
','          Operator
' '          Text.Whitespace
'1'          Literal.Number.Integer
'))'         Punctuation
'"'          Punctuation
' '          Text.Whitespace
'then'       Keyword
'\n          ' Text.Whitespace
'n'          Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'indets'
     Name.Builtin
'('          Punctuation
'op'         Name.Builtin
'('          Punctuation
'1'          Literal.Number.Integer
','          Operator
'p'          Name
')'          Punctuation
','          Operator
'name'       Name
');'         Punctuation
'\n          ' Text.Whitespace
'if'         Keyword
' '          Text.Whitespace
'op'         Name.Builtin
'('          Punctuation
'2'          Literal.Number.Integer
','          Operator
'p'          Name
')'          Punctuation
' '          Text.Whitespace
'::'         Operator
' '          Text.Whitespace
'{'          Punctuation
'"'          Punctuation
'exp'        Name
'('          Punctuation
'anything'   Name
')'          Punctuation
'"'          Punctuation
```

```
','         Operator
' '         Text.Whitespace
"""         Punctuation
'`^`'       Name
"""         Punctuation
'('         Punctuation
"""         Punctuation
'freeof'    Name
"""         Punctuation
'('
        Punctuation
'n'         Name
')'         Punctuation
','         Operator
"""         Punctuation
'anything'  Name
"""         Punctuation
')}'        Punctuation
' '         Text.Whitespace
'then'      Keyword
'\n         ' Text.Whitespace
's'         Name
','         Operator
' '         Text.Whitespace
'r'         Name
' '         Text.Whitespace
':='        Operator
' '         Text.Whitespace
'selectremove' Name.Builtin
'('         Punctuation
'depends'   Name
','         Operator
' '         Text.Whitespace
'convert'   Name.Builtin
'('         Punctuation
'op'        Name.Builtin
'(['        Punctuation
'2'         Literal.Number.Integer
','         Operator
'-'         Operator
'1'         Literal.Number.Integer
']'         Punctuation
','         Operator
'p'         Name
')'         Punctuation
','         Operator
"""         Punctuation
'list'      Name
```

```
"""          Punctuation
','
    Operator
"""          Punctuation
'`*`'        Name
"""          Punctuation
')'          Punctuation
','          Operator
' '          Text.Whitespace
'n'          Name
');'         Punctuation
'\n          ' Text.Whitespace
'subsop'     Name.Builtin
'('          Punctuation
'-'          Operator
'1'          Literal.Number.Integer
' '          Text.Whitespace
'='          Operator
' '          Text.Whitespace
'`*`'        Name
'('          Punctuation
'piecewise'  Name.Builtin
'('          Punctuation
'op'         Name.Builtin
'('          Punctuation
'1'          Literal.Number.Integer
','          Operator
'p'          Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'`*`'        Name
'('          Punctuation
'op'         Name.Builtin
'('          Punctuation
's'          Name
')))'        Punctuation
','          Operator
' '          Text.Whitespace
'op'         Name.Builtin
'('          Punctuation
'r'
         Name
'))'         Punctuation
','          Operator
' '          Text.Whitespace
'op'         Name.Builtin
'('          Punctuation
```

```
'2'          Literal.Number.Integer
','          Operator
'p'          Name
'))'         Punctuation
'\n          ' Text.Whitespace
'else'       Keyword
'\n          ' Text.Whitespace
's'          Name
','          Operator
' '          Text.Whitespace
'r'          Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'selectremove' Name.Builtin
'('          Punctuation
'depends'    Name
','          Operator
' '          Text.Whitespace
'convert'    Name.Builtin
'('          Punctuation
'op'         Name.Builtin
'('          Punctuation
'2'          Literal.Number.Integer
','          Operator
'p'          Name
')'          Punctuation
','          Operator
'"'          Punctuation
'list'       Name
'"'          Punctuation
','          Operator
'"'          Punctuation
'`*`'
     Name
'"'          Punctuation
')'          Punctuation
','          Operator
' '          Text.Whitespace
'n'          Name
');'         Punctuation
'\n          ' Text.Whitespace
'`*`'        Name
'('          Punctuation
'op'         Name.Builtin
'('          Punctuation
'r'          Name
'))'         Punctuation
```

```
' '          Text.Whitespace
'^'          Operator
' '          Text.Whitespace
'piecewise'   Name.Builtin
'('          Punctuation
'op'          Name.Builtin
'('          Punctuation
'1'          Literal.Number.Integer
','          Operator
'p'          Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'1'          Literal.Number.Integer
')'          Punctuation
'\n             ' Text.Whitespace
'*'          Operator
' '          Text.Whitespace
'`if`'        Name
'('          Punctuation
'nops'        Name.Builtin
'('          Punctuation
's'          Name
')'          Punctuation
' '          Text.Whitespace
'>'
          Operator
' '          Text.Whitespace
'0'          Literal.Number.Integer
','          Operator
' '          Text.Whitespace
'piecewise'   Name.Builtin
'('          Punctuation
'op'          Name.Builtin
'('          Punctuation
'1'          Literal.Number.Integer
','          Operator
'p'          Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'`*`'        Name
'('          Punctuation
'op'          Name.Builtin
'('          Punctuation
's'          Name
'))'         Punctuation
','          Operator
```

```
' '          Text.Whitespace
'1'          Literal.Number.Integer
')'          Punctuation
','          Operator
' '          Text.Whitespace
'1'          Literal.Number.Integer
')'          Punctuation
'\n          ' Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'if'         Keyword
'\n        '  Text.Whitespace
'else'       Keyword
'\n          ' Text.Whitespace
'p'          Name
'\n
        '  Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'if'         Keyword
'\n      '    Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'proc'       Keyword
');'         Punctuation
'\n    '     Text.Whitespace
'w0'         Name
','          Operator
' '          Text.Whitespace
'pp'         Name
'\n  '       Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'proc'       Keyword
';'          Punctuation
'\n\n  '     Text.Whitespace
'# Find [w1,pp] so that\n' Comment.Single

' '          Text.Whitespace
'#   wrap(heap,w,mode,kb1,kb0)\n' Comment.Single

' '          Text.Whitespace
'#   = w1*product(eval(pp,var=idx(var,lhs(loop))),loop)\n' Comment.Single

' '          Text.Whitespace
'# making w1 depend on var as little as possible.\n' Comment.Single

' '          Text.Whitespace
```

```
'# The flag "mode" should be `+` if "heap" contains an entry of the form\n' Comment.Single

' '          Text.Whitespace
'# t_exp,
 or `*` otherwise.\n' Comment.Single

' '          Text.Whitespace
'unproduct'   Name
' '          Text.Whitespace
':='          Operator
' '          Text.Whitespace
'proc'        Keyword
'('           Punctuation
'w'           Name
','           Operator
' '          Text.Whitespace
'var'         Name
'::'          Operator
'name'        Name
','           Operator
' '          Text.Whitespace
'loop'        Name
'::'          Operator
'('           Punctuation
'name'        Name
'='           Operator
'range'       Name
')'           Punctuation
','           Operator
'\n                 ' Text.Whitespace
'heap'        Name
'::'          Operator
'list'        Name
','           Operator
' '          Text.Whitespace
'mode'        Name
'::'          Operator
'identical'   Name
'('           Punctuation
'`*`'         Name
','           Operator
'`+`'         Name
')'           Punctuation
','           Operator
'\n                 ' Text.Whitespace
'kb1'         Name
'::'
```

```
        Operator
't_kb'        Name
','           Operator
' '           Text.Whitespace
'kb0'         Name
'::'          Operator
't_kb'        Name
','           Operator
' '           Text.Whitespace
'$'           Operator
')'           Punctuation
'\n    '      Text.Whitespace
'local'       Keyword
' '           Text.Whitespace
'ind'         Name
','           Operator
' '           Text.Whitespace
'res'         Name
','           Operator
' '           Text.Whitespace
'dummy'       Name
','           Operator
' '           Text.Whitespace
'kb'          Name
','           Operator
' '           Text.Whitespace
'kbThen'      Name
','           Operator
' '           Text.Whitespace
'i'           Name
','           Operator
' '           Text.Whitespace
'w1'          Name
','           Operator
' '           Text.Whitespace
'pp'          Name
','           Operator
' '           Text.Whitespace
's'           Name
','           Operator
' '           Text.Whitespace
'r'           Name
','
          Operator
' '           Text.Whitespace
'x'           Name
';'           Punctuation
'\n    '      Text.Whitespace
```

'if' Keyword
' ' Text.Whitespace
'not' Keyword
' ' Text.Whitespace
'depends' Name
'(' Punctuation
'w' Name
',' Operator
' ' Text.Whitespace
'var' Name
')' Punctuation
' ' Text.Whitespace
'then' Keyword
'\n ' Text.Whitespace
'return' Keyword
' ' Text.Whitespace
'[' Punctuation
'wrap' Name
'(' Punctuation
'heap' Name
',' Operator
' ' Text.Whitespace
'w' Name
',' Operator
' ' Text.Whitespace
'mode' Name
',' Operator
' ' Text.Whitespace
'kb1' Name
',' Operator
' ' Text.Whitespace
'kb0' Name
')' Punctuation
',' Operator
' ' Text.Whitespace
'1' Literal.Number.Integer
']'
Punctuation
'\n ' Text.Whitespace
'end' Keyword
' ' Text.Whitespace
'if' Keyword
';' Punctuation
'\n ' Text.Whitespace
"# The `..' (indices) of all occurences of `idx(var,..)'\n" Comment.Single

' ' Text.Whitespace
'ind' Name

```
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'map2'       Name
'('          Punctuation
'op'         Name.Builtin
','          Operator
' '          Text.Whitespace
'2'          Literal.Number.Integer
','          Operator
' '          Text.Whitespace
'indets'     Name.Builtin
'('          Punctuation
'w'          Name
','          Operator
' '          Text.Whitespace
'"'          Punctuation
'idx'        Name
'('          Punctuation
'identical'  Name
'('          Punctuation
'var'        Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'anything'   Name
')'
   Punctuation
'"'          Punctuation
'));'        Punctuation
'\n    '     Text.Whitespace
'if'         Keyword
' '          Text.Whitespace
'nops'       Name.Builtin
'('          Punctuation
'ind'        Name
')'          Punctuation
' '          Text.Whitespace
'='          Operator
' '          Text.Whitespace
'1'          Literal.Number.Integer
' '          Text.Whitespace
'then'       Keyword
'\n      '   Text.Whitespace
'ind'        Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
```

```
'op'          Name.Builtin
'('           Punctuation
'ind'         Name
');'          Punctuation
'\n      '    Text.Whitespace
'# Make sure ind contains no bound variables before lifting it!\n' Comment.Single

'      '      Text.Whitespace
'# So, check that "extract using indets" and "rename using eval" commute.\n' Comment.Single

'      '      Text.Whitespace
's'           Name
' '           Text.Whitespace
':='          Operator
' '
  Text.Whitespace
'indets'      Name.Builtin
'('           Punctuation
'ind'         Name
','           Operator
' '           Text.Whitespace
"""           Punctuation
'name'        Name
"""           Punctuation
');'          Punctuation
'\n      '    Text.Whitespace
's'           Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'map'         Name.Builtin
'('           Punctuation
'proc'        Keyword
'('           Punctuation
'x'           Name
','           Operator
'$'           Operator
')'           Punctuation
' '           Text.Whitespace
'local'       Keyword
' '           Text.Whitespace
'y'           Name
';'           Punctuation
' '           Text.Whitespace
'`if`'        Name
'('           Punctuation
'depends'     Name
'('           Punctuation
```

```
'ind'        Name
','          Operator
'x'          Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'x'          Name
'='          Operator
'y'
       Name
','          Operator
' '          Text.Whitespace
'NULL'       Name
')'          Punctuation
' '          Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'proc'       Keyword
','          Operator
' '          Text.Whitespace
's'          Name
');'         Punctuation
'\n     '    Text.Whitespace
'if'         Keyword
' '          Text.Whitespace
'indets'     Name.Builtin
'('          Punctuation
'eval'       Name.Builtin
'('          Punctuation
'w'          Name
','          Operator
' '          Text.Whitespace
's'          Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'"'          Punctuation
'idx'        Name
'('          Punctuation
'identical'  Name
'('          Punctuation
'var'        Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'anything'   Name
')'          Punctuation
'"'          Punctuation
```

')' Punctuation
'\n '
 Text.Whitespace
'=' Operator
' ' Text.Whitespace
'{' Punctuation
'idx' Name
'(' Punctuation
'var' Name
',' Operator
' ' Text.Whitespace
'eval' Name.Builtin
'(' Punctuation
'ind' Name
',' Operator
' ' Text.Whitespace
's' Name
'))}' Punctuation
' ' Text.Whitespace
'then' Keyword
'\n ' Text.Whitespace
"# use kb as a local context, and 'solve' for the innermost bound var\n" Comment.Single

' ' Text.Whitespace
'# used in ind.\n' Comment.Single

' ' Text.Whitespace
'kb' Name
' ' Text.Whitespace
':=' Operator
' ' Text.Whitespace
'assert' Name
'(' Punctuation
'lhs' Name.Builtin
'(' Punctuation
'loop' Name
')' Punctuation
'=' Operator
'ind' Name
',' Operator
' ' Text.Whitespace
'kb1'
 Name
');' Punctuation
' ' Text.Whitespace
'# BUG! bijectivity assumed!\n' Comment.Single

' ' Text.Whitespace

"# if the assertion makes the KB false, it isn't needed(?)\n" Comment.Single

' ' Text.Whitespace
'ASSERT' Name.Builtin
'(' Punctuation
'type' Name.Builtin
'(' Punctuation
'kb' Name
',' Operator
' ' Text.Whitespace
't_kb' Name
')' Punctuation
',' Operator
'\n ' Text.Whitespace
'sprintf' Name
'(' Punctuation
'"assert(%a,%a) produced a false KB!\\n"' Literal.String
',' Operator
' ' Text.Whitespace
'lhs' Name.Builtin
'(' Punctuation
'loop' Name
')' Punctuation
'=' Operator
'ind' Name
',' Operator
'kb1' Name
'))' Punctuation
':' Operator
'\n ' Text.Whitespace
'res' Name
' ' Text.Whitespace
':='
Operator
' ' Text.Whitespace
'subs' Name.Builtin
'(' Punctuation
'idx' Name
'(' Punctuation
'var' Name
',' Operator
'ind' Name
')' Punctuation
' ' Text.Whitespace
'=' Operator
' ' Text.Whitespace
'idx' Name
'(' Punctuation

```
'var'        Name
','          Operator
'lhs'        Name.Builtin
'('          Punctuation
'loop'       Name
'))'         Punctuation
','          Operator
' '          Text.Whitespace
'w'          Name
');'         Punctuation
'\n        '  Text.Whitespace
'res'        Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'wrap'       Name
'('          Punctuation
'heap'       Name
','          Operator
' '          Text.Whitespace
'res'        Name
','          Operator
' '          Text.Whitespace
'mode'       Name
','          Operator
' '          Text.Whitespace
'kb'
     Name
','          Operator
' '          Text.Whitespace
'kb0'        Name
');'         Punctuation
'\n        '  Text.Whitespace
'res'        Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'subs'       Name.Builtin
'('          Punctuation
'idx'        Name
'('          Punctuation
'var'        Name
','          Operator
'lhs'        Name.Builtin
'('          Punctuation
'loop'       Name
'))'         Punctuation
'='          Operator
```

```
'dummy'       Name
','           Operator
' '           Text.Whitespace
'res'         Name
');'          Punctuation
'\n       '   Text.Whitespace
'if'          Keyword
' '           Text.Whitespace
'not'         Keyword
' '           Text.Whitespace
'depends'     Name
'('           Punctuation
'res'         Name
','           Operator
' '           Text.Whitespace
'var'         Name
')'           Punctuation
' '           Text.Whitespace
'then'        Keyword
'\n          ' Text.Whitespace
'return'
      Keyword
' '           Text.Whitespace
'['           Punctuation
'1'           Literal.Number.Integer
','           Operator
' '           Text.Whitespace
'subs'        Name.Builtin
'('           Punctuation
'dummy'       Name
'='           Operator
'var'         Name
','           Operator
' '           Text.Whitespace
'res'         Name
')]'          Punctuation
'\n       '   Text.Whitespace
'end'         Keyword
' '           Text.Whitespace
'if'          Keyword
'\n      '    Text.Whitespace
'end'         Keyword
' '           Text.Whitespace
'if'          Keyword
'\n    '      Text.Whitespace
'end'         Keyword
' '           Text.Whitespace
'if'          Keyword
```

```
';'         Punctuation
'\n    '      Text.Whitespace
'# distribute the unproduct over each part\n' Comment.Single

'    '       Text.Whitespace
'if'         Keyword
' '          Text.Whitespace
'w'           Name
' '          Text.Whitespace
'::'         Operator
' '          Text.Whitespace
'mode'
      Name
' '          Text.Whitespace
'then'        Keyword
'\n      '    Text.Whitespace
'res'         Name
' '          Text.Whitespace
':='          Operator
' '          Text.Whitespace
'map'         Name.Builtin
'('          Punctuation
'unproduct'   Name
','          Operator
' '          Text.Whitespace
'`if`'        Name
'('          Punctuation
'mode'        Name
'='          Operator
'`*`'         Name
','          Operator
' '          Text.Whitespace
'list_of_mul' Name
'('          Punctuation
'w'           Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'['          Punctuation
'op'          Name.Builtin
'('          Punctuation
'w'           Name
')])'        Punctuation
','          Operator
'\n                ' Text.Whitespace
'var'         Name
','          Operator
' '          Text.Whitespace
```

```
'loop'      Name
','         Operator
' '         Text.Whitespace
'heap'      Name
','         Operator
' '
      Text.Whitespace
'mode'      Name
','         Operator
' '         Text.Whitespace
'kb1'       Name
','         Operator
' '         Text.Whitespace
'kb0'       Name
');'        Punctuation
'\n     '   Text.Whitespace
'return'    Keyword
' '         Text.Whitespace
'['         Punctuation
'`*`'       Name
'('         Punctuation
'op'        Name.Builtin
'('         Punctuation
'map2'      Name
'('         Punctuation
'op'        Name.Builtin
','         Operator
'1'         Literal.Number.Integer
','         Operator
'res'       Name
')))'       Punctuation
','         Operator
' '         Text.Whitespace
'`*`'       Name
'('         Punctuation
'op'        Name.Builtin
'('         Punctuation
'map2'      Name
'('         Punctuation
'op'        Name.Builtin
','         Operator
'2'         Literal.Number.Integer
','         Operator
'res'       Name
')))]'      Punctuation
'\n    '    Text.Whitespace
'end'
```

```
        Keyword
' '         Text.Whitespace
'if'        Keyword
';'         Punctuation
'\n    '     Text.Whitespace
'# for piecewise, just map right in (using KB for context tracking)\n' Comment.Single

'    '      Text.Whitespace
'if'        Keyword
' '         Text.Whitespace
'w'         Name
' '         Text.Whitespace
'::'        Operator
' '         Text.Whitespace
'"'         Punctuation
'specfunc'    Name
'('         Punctuation
'piecewise'   Name.Builtin
')'         Punctuation
'"'         Punctuation
' '         Text.Whitespace
'then'      Keyword
'\n     '   Text.Whitespace
'kb'        Name
' '         Text.Whitespace
':='        Operator
' '         Text.Whitespace
'kb1'       Name
';'         Punctuation
'\n     '   Text.Whitespace
'for'       Keyword
' '         Text.Whitespace
'i'         Name
' '         Text.Whitespace
'from'      Keyword
' '         Text.Whitespace
'1'         Literal.Number.Integer
'
 '          Text.Whitespace
'to'        Keyword
' '         Text.Whitespace
'nops'      Name.Builtin
'('         Punctuation
'w'         Name
')'         Punctuation
' '         Text.Whitespace
'do'        Keyword
'\n       '  Text.Whitespace
```

```
'if'        Keyword
' '         Text.Whitespace
'i'         Name
' '         Text.Whitespace
'::'        Operator
' '         Text.Whitespace
'even'      Name
' '         Text.Whitespace
'then'      Keyword
'\n         ' Text.Whitespace
'kbThen'    Name
' '         Text.Whitespace
':='        Operator
' '         Text.Whitespace
'assert'    Name
'('         Punctuation
'   '       Text.Whitespace
'op'        Name.Builtin
'('         Punctuation
'i'         Name
'-'         Operator
'1'         Literal.Number.Integer
','         Operator
'w'         Name
')'         Punctuation
' '         Text.Whitespace
','         Operator
' '         Text.Whitespace
'kb'        Name
');'
        Punctuation
'\n         ' Text.Whitespace
'# accumulate the rest, regardless\n' Comment.Single

'         ' Text.Whitespace
'kb'        Name
'    '      Text.Whitespace
':='        Operator
' '         Text.Whitespace
'assert'    Name
'('         Punctuation
'Not'       Name
'('         Punctuation
'op'        Name.Builtin
'('         Punctuation
'i'         Name
'-'         Operator
'1'         Literal.Number.Integer
```

```
','         Operator
'w'         Name
'))'        Punctuation
','         Operator
' '         Text.Whitespace
'kb'        Name
');'        Punctuation
'\n\n        ' Text.Whitespace
'# if kbThen is invalid, deal appropriately\n' Comment.Single

'        '  Text.Whitespace
'if'        Keyword
' '         Text.Whitespace
'not'       Keyword
' '         Text.Whitespace
'type'      Name.Builtin
'('         Punctuation
'kbThen'    Name
','         Operator
't_kb'      Name
')'         Punctuation
' '
        Text.Whitespace
'then'      Keyword
' '         Text.Whitespace
'next'      Keyword
' '         Text.Whitespace
'end'       Keyword
' '         Text.Whitespace
'if'        Keyword
';'         Punctuation
'\n\n        ' Text.Whitespace
'w1'        Name
'['         Punctuation
'i'         Name
']'         Punctuation
','         Operator
' '         Text.Whitespace
'pp'        Name
'['         Punctuation
'i'         Name
']'         Punctuation
' '         Text.Whitespace
':='        Operator
' '         Text.Whitespace
'op'        Name.Builtin
'('         Punctuation
'unproduct'   Name
```

```
'('          Punctuation
'op'         Name.Builtin
'('          Punctuation
'i'          Name
','          Operator
'w'          Name
')'          Punctuation
','          Operator
'var'        Name
','          Operator
'loop'       Name
','          Operator
'heap'       Name
','          Operator
'mode'       Name
','          Operator
'kbThen'
     Name
','          Operator
'kb0'        Name
'));'        Punctuation
'\n          ' Text.Whitespace
"# if kb is inconsistent, we're done\n" Comment.Single

'          '  Text.Whitespace
'if'         Keyword
' '          Text.Whitespace
'not'        Keyword
' '          Text.Whitespace
'type'       Name.Builtin
'('          Punctuation
'kb'         Name
','          Operator
't_kb'       Name
')'          Punctuation
' '          Text.Whitespace
'then'       Keyword
' '          Text.Whitespace
'break'      Keyword
' '          Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'if'         Keyword
';'          Punctuation
'\n        '  Text.Whitespace
'elif'       Keyword
' '          Text.Whitespace
'i'          Name
```

```
' '          Text.Whitespace
'='          Operator
' '          Text.Whitespace
'nops'       Name.Builtin
'('          Punctuation
'w'          Name
')'          Punctuation
' '          Text.Whitespace
'then'
       Keyword
'\n          ' Text.Whitespace
'if'         Keyword
' '          Text.Whitespace
'not'        Keyword
' '          Text.Whitespace
'type'       Name.Builtin
'('          Punctuation
'kb'         Name
','          Operator
't_kb'       Name
')'          Punctuation
' '          Text.Whitespace
'then'       Keyword
' '          Text.Whitespace
'next'       Keyword
' '          Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'if'         Keyword
';'          Punctuation
'\n          ' Text.Whitespace
'w1'         Name
'['          Punctuation
'i'          Name
']'          Punctuation
','          Operator
' '          Text.Whitespace
'pp'         Name
'['          Punctuation
'i'          Name
']'          Punctuation
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'op'         Name.Builtin
'('          Punctuation
'unproduct'   Name
'('          Punctuation
```

```
'op'        Name.Builtin
'('
          Punctuation
'i'         Name
','         Operator
'w'         Name
')'         Punctuation
','         Operator
'var'       Name
','         Operator
'loop'      Name
','         Operator
'heap'      Name
','         Operator
'mode'      Name
','         Operator
'kb'        Name
'   '       Text.Whitespace
','         Operator
'kb0'       Name
'))'        Punctuation
'\n       '  Text.Whitespace
'end'       Keyword
' '         Text.Whitespace
'if'        Keyword
'\n     '   Text.Whitespace
'end'       Keyword
' '         Text.Whitespace
'do'        Keyword
';'         Punctuation
'\n     '   Text.Whitespace
'return'    Keyword
' '         Text.Whitespace
'['         Punctuation
'`*`'       Name
'('         Punctuation
'entries'   Name.Builtin
'('         Punctuation
'w1'        Name
','         Operator
'"'         Punctuation
'nolist'    Name
'"'         Punctuation
'))'        Punctuation
','
          Operator
' '         Text.Whitespace
'`*`'       Name
```

```
'('          Punctuation
'entries'    Name.Builtin
'('          Punctuation
'pp'         Name
','          Operator
'"'          Punctuation
'nolist'     Name
'"'          Punctuation
'))]'        Punctuation
'\n    '     Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'if'         Keyword
';'          Punctuation
'\n    '     Text.Whitespace
'if'         Keyword
' '          Text.Whitespace
'mode'       Name
' '          Text.Whitespace
'='          Operator
' '          Text.Whitespace
'`*`'        Name
' '          Text.Whitespace
'then'       Keyword
'\n      '   Text.Whitespace
'if'         Keyword
' '          Text.Whitespace
'w'          Name
' '          Text.Whitespace
'::'         Operator
' '          Text.Whitespace
'('          Punctuation
'anything'   Name
'^'          Operator
'freeof'     Name
'('          Punctuation
'var'        Name
'))'
         Punctuation
' '          Text.Whitespace
'then'       Keyword
'\n        ' Text.Whitespace
'return'     Keyword
' '          Text.Whitespace
'unproduct'  Name
'('          Punctuation
'op'         Name.Builtin
'('          Punctuation
```

```
'1'          Literal.Number.Integer
','          Operator
'w'          Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'var'        Name
','          Operator
' '          Text.Whitespace
'loop'       Name
','          Operator
'\n                    ' Text.Whitespace
'['          Punctuation
'op'         Name.Builtin
'('          Punctuation
'heap'       Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'Stmt'       Name
'('          Punctuation
'`^`'        Name
','          Operator
' '          Text.Whitespace
'[]'         Punctuation
','          Operator
' '          Text.Whitespace
'['          Punctuation
'op'         Name.Builtin
'('
          Punctuation
'2'          Literal.Number.Integer
','          Operator
'w'          Name
')])]'       Punctuation
','          Operator
' '          Text.Whitespace
'`*`'        Name
','          Operator
' '          Text.Whitespace
'kb1'        Name
','          Operator
' '          Text.Whitespace
'kb0'        Name
')'          Punctuation
'\n     '    Text.Whitespace
'elif'       Keyword
' '          Text.Whitespace
```

```
'w'          Name
' '          Text.Whitespace
'::'         Operator
' '          Text.Whitespace
'exp'        Name
'('          Punctuation
'anything'   Name
')'          Punctuation
' '          Text.Whitespace
'then'       Keyword
'\n        '  Text.Whitespace
'return'     Keyword
' '          Text.Whitespace
'unproduct'  Name
'('          Punctuation
'op'         Name.Builtin
'('          Punctuation
'1'          Literal.Number.Integer
','          Operator
'w'          Name
')'          Punctuation
','          Operator
'
 '           Text.Whitespace
'var'        Name
','          Operator
' '          Text.Whitespace
'loop'       Name
','          Operator
'\n                        ' Text.Whitespace
'['          Punctuation
'op'         Name.Builtin
'('          Punctuation
'heap'       Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'Stmt'       Name
'('          Punctuation
'exp'        Name
','          Operator
' '          Text.Whitespace
'[]'         Punctuation
','          Operator
' '          Text.Whitespace
'[])]'       Punctuation
','          Operator
' '          Text.Whitespace
```

```
'`+`'        Name
','          Operator
' '          Text.Whitespace
'kb1'        Name
','          Operator
' '          Text.Whitespace
'kb0'        Name
')'          Punctuation
'\n     '    Text.Whitespace
'elif'       Keyword
' '          Text.Whitespace
'w'          Name
' '          Text.Whitespace
'::'         Operator
' '
    Text.Whitespace
'('          Punctuation
'freeof'     Name
'('          Punctuation
'var'        Name
')^'         Punctuation
'anything'   Name
')'          Punctuation
' '          Text.Whitespace
'then'       Keyword
'\n       '  Text.Whitespace
'return'     Keyword
' '          Text.Whitespace
'unproduct'  Name
'('          Punctuation
'op'         Name.Builtin
'('          Punctuation
'2'          Literal.Number.Integer
','          Operator
'w'          Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'var'        Name
','          Operator
' '          Text.Whitespace
'loop'       Name
','          Operator
'\n                    ' Text.Whitespace
'['          Punctuation
'op'         Name.Builtin
'('          Punctuation
'heap'       Name
```

```
')'          Punctuation
','          Operator
' '          Text.Whitespace
'Stmt'       Name
'('          Punctuation
'`^`'        Name
','          Operator
' '
          Text.Whitespace
'['          Punctuation
'op'         Name.Builtin
'('          Punctuation
'1'          Literal.Number.Integer
','          Operator
'w'          Name
')]'         Punctuation
','          Operator
' '          Text.Whitespace
'[])]'       Punctuation
','          Operator
' '          Text.Whitespace
'`+`'        Name
','          Operator
' '          Text.Whitespace
'kb1'        Name
','          Operator
' '          Text.Whitespace
'kb0'        Name
')'          Punctuation
'\n     '    Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'if'         Keyword
'\n    '     Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'if'         Keyword
';'          Punctuation
'\n    '     Text.Whitespace
'if'         Keyword
' '          Text.Whitespace
'mode'       Name
' '          Text.Whitespace
'='          Operator
' '          Text.Whitespace
'`+`'        Name
' '          Text.Whitespace
'and'
```

```
        Keyword
' '         Text.Whitespace
'w'         Name
' '         Text.Whitespace
'::'        Operator
' '         Text.Whitespace
'`*`'       Name
' '         Text.Whitespace
'then'      Keyword
'\n     '   Text.Whitespace
's'         Name
','         Operator
' '         Text.Whitespace
'r'         Name
' '         Text.Whitespace
':='        Operator
' '         Text.Whitespace
'selectremove' Name.Builtin
'('         Punctuation
'depends'   Name
','         Operator
' '         Text.Whitespace
'w'         Name
','         Operator
' '         Text.Whitespace
'var'       Name
');'        Punctuation
'\n     '   Text.Whitespace
'if'        Keyword
' '         Text.Whitespace
's'         Name
' '         Text.Whitespace
'::'        Operator
' '         Text.Whitespace
'`*`'       Name
' '         Text.Whitespace
'then'      Keyword
'\n       ' Text.Whitespace
'# Nonlinear %1 (time to reread kiselyov-lifted?)\n'
 Comment.Single

'     '     Text.Whitespace
'else'      Keyword
'\n       ' Text.Whitespace
'return'    Keyword
' '         Text.Whitespace
'unproduct' Name
'('         Punctuation
```

```
's'          Name
','          Operator
' '          Text.Whitespace
'var'        Name
','          Operator
' '          Text.Whitespace
'loop'       Name
','          Operator
'\n                    ' Text.Whitespace
'['          Punctuation
'op'         Name.Builtin
'('          Punctuation
'heap'       Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'Stmt'       Name
'('          Punctuation
'`*`'        Name
','          Operator
' '          Text.Whitespace
'[]'         Punctuation
','          Operator
' '          Text.Whitespace
'['          Punctuation
'r'          Name
'])]'        Punctuation
','          Operator
' '          Text.Whitespace
'`+`'        Name
','          Operator
' '          Text.Whitespace
'kb1'
        Name
','          Operator
' '          Text.Whitespace
'kb0'        Name
')'          Punctuation
'\n     '    Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'if'         Keyword
'\n    '     Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'if'         Keyword
';'          Punctuation
'\n    '     Text.Whitespace
```

```
'if'          Keyword
' '          Text.Whitespace
'w'          Name
' '          Text.Whitespace
'::'         Operator
' '          Text.Whitespace
'And'        Name
'('          Punctuation
'specfunc'   Name
'('          Punctuation
'`if`'       Name
'('          Punctuation
'mode'       Name
' '          Text.Whitespace
'='          Operator
' '          Text.Whitespace
'`*`'        Name
','          Operator
' '          Text.Whitespace
'{'          Punctuation
'product'    Name
','          Operator
' '          Text.Whitespace
'Product'    Name
'}'          Punctuation
','
    Operator
' '          Text.Whitespace
'{'          Punctuation
'sum'        Name
','          Operator
' '          Text.Whitespace
'Sum'        Name
'}))'        Punctuation
','          Operator
'\n              ' Text.Whitespace
'anyfunc'    Name
'('          Punctuation
'anything'   Name
','          Operator
' '          Text.Whitespace
'name'       Name
'='          Operator
'range'      Name
'('          Punctuation
'freeof'     Name
'('          Punctuation
'var'        Name
```

```
'))))'        Punctuation
' '           Text.Whitespace
'then'        Keyword
'\n      '    Text.Whitespace
'x'           Name
','           Operator
' '           Text.Whitespace
'kb'          Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'genType'     Name
'('           Punctuation
'op'          Name.Builtin
'(['          Punctuation
'2'           Literal.Number.Integer
','           Operator
'1'           Literal.Number.Integer
']'
      Punctuation
','           Operator
'w'           Name
')'           Punctuation
','           Operator
' '           Text.Whitespace
'HInt'        Name
'('           Punctuation
'closed_bounds' Name
'('           Punctuation
'op'          Name.Builtin
'(['          Punctuation
'2'           Literal.Number.Integer
','           Operator
'2'           Literal.Number.Integer
']'           Punctuation
','           Operator
'w'           Name
')))'         Punctuation
','           Operator
' '           Text.Whitespace
'kb1'         Name
','           Operator
'\n                    ' Text.Whitespace
'w'           Name
','           Operator
' '           Text.Whitespace
'var'         Name
','           Operator
```

```
' '          Text.Whitespace
'loop'       Name
','          Operator
' '          Text.Whitespace
'heap'       Name
');'         Punctuation
'\n     '    Text.Whitespace
'return'     Keyword
' '          Text.Whitespace
'unproduct'  Name
'('          Punctuation
'eval'
       Name.Builtin
'('          Punctuation
'op'         Name.Builtin
'('          Punctuation
'1'          Literal.Number.Integer
','          Operator
'w'          Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'op'         Name.Builtin
'(['         Punctuation
'2'          Literal.Number.Integer
','          Operator
'1'          Literal.Number.Integer
']'          Punctuation
','          Operator
'w'          Name
')'          Punctuation
'='          Operator
'x'          Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'var'        Name
','          Operator
' '          Text.Whitespace
'loop'       Name
','          Operator
'\n                  ' Text.Whitespace
'['          Punctuation
'op'         Name.Builtin
'('          Punctuation
'heap'       Name
')'          Punctuation
','          Operator
```

```
' '          Text.Whitespace
'Binder'      Name
'('          Punctuation
'op'
          Name.Builtin
'('          Punctuation
'0'           Literal.Number.Integer
','          Operator
'w'           Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'kb1'         Name
')]'         Punctuation
','          Operator
' '          Text.Whitespace
'mode'        Name
','          Operator
' '          Text.Whitespace
'kb'          Name
','          Operator
' '          Text.Whitespace
'kb0'         Name
')'          Punctuation
'\n    '      Text.Whitespace
'end'         Keyword
' '          Text.Whitespace
'if'          Keyword
';'          Punctuation
'\n    '      Text.Whitespace
'if'          Keyword
' '          Text.Whitespace
'mode'        Name
' '          Text.Whitespace
'='           Operator
' '          Text.Whitespace
'`*`'         Name
' '          Text.Whitespace
'and'         Keyword
' '          Text.Whitespace
'w'           Name
' '          Text.Whitespace
'::'          Operator
' '
          Text.Whitespace
'"'           Punctuation
'{'           Punctuation
'`+`'         Name
```

```
','          Operator
' '          Text.Whitespace
'specfunc'    Name
'({'          Punctuation
'sum'         Name
','          Operator
' '          Text.Whitespace
'Sum'         Name
'})}'         Punctuation
"""           Punctuation
' '          Text.Whitespace
'then'        Keyword
'\n      '    Text.Whitespace
'# Maybe this w is one of those big sums involving products that are\n' Comment.Single

'     '      Text.Whitespace
'# always equal to 1, left behind by the density of Categorical\n' Comment.Single

'     '      Text.Whitespace
'w1'          Name
' '          Text.Whitespace
':='          Operator
' '          Text.Whitespace
'graft'       Name
'('          Punctuation
'split'       Name
'('          Punctuation
'peel'        Name
'('          Punctuation
'w'           Name
')));'        Punctuation
'\n      '    Text.Whitespace
'w1'          Name
' '          Text.Whitespace
':='
          Operator
' '          Text.Whitespace
'combine'     Name
'('          Punctuation
'rebase_upper' Name
'('          Punctuation
'w1'          Name
'));'         Punctuation
'\n      '    Text.Whitespace
'w1'          Name
' '          Text.Whitespace
':='          Operator
' '          Text.Whitespace
```

```
'combine'     Name
'('           Punctuation
'rebase_lower' Name
'('           Punctuation
'w1'          Name
'));'         Punctuation
'\n     '     Text.Whitespace
'return'      Keyword
' '           Text.Whitespace
'['           Punctuation
'wrap'        Name
'('           Punctuation
'heap'        Name
','           Operator
' '           Text.Whitespace
'w1'          Name
','           Operator
' '           Text.Whitespace
'mode'        Name
','           Operator
' '           Text.Whitespace
'kb1'         Name
','           Operator
' '           Text.Whitespace
'kb0'         Name
')'           Punctuation
','           Operator
' '           Text.Whitespace
'1'
          Literal.Number.Integer
']'           Punctuation
'\n    '      Text.Whitespace
'end'         Keyword
' '           Text.Whitespace
'if'          Keyword
';'           Punctuation
'\n    '      Text.Whitespace
'return'      Keyword
' '           Text.Whitespace
'['           Punctuation
'wrap'        Name
'('           Punctuation
'heap'        Name
','           Operator
' '           Text.Whitespace
'w'           Name
','           Operator
' '           Text.Whitespace
```

```
'mode'        Name
','           Operator
' '           Text.Whitespace
'kb1'         Name
','           Operator
' '           Text.Whitespace
'kb0'         Name
')'           Punctuation
','           Operator
' '           Text.Whitespace
'1'           Literal.Number.Integer
']'           Punctuation
'\n  '        Text.Whitespace
'end'         Keyword
' '           Text.Whitespace
'proc'        Keyword
';'           Punctuation
'\n\n  '      Text.Whitespace
'enter_piecewise' Name
' '           Text.Whitespace
':='
          Operator
' '           Text.Whitespace
'proc'        Keyword
'('           Punctuation
'ee'          Name
','           Operator
' '           Text.Whitespace
'kb0'         Name
'::'          Operator
't_kb'        Name
','           Operator
' '           Text.Whitespace
'mode'        Name
'::'          Operator
'identical'   Name
'('           Punctuation
'`*`'         Name
','           Operator
'`+`'         Name
')'           Punctuation
','           Operator
' '           Text.Whitespace
'$'           Operator
')'           Punctuation
'\n    '      Text.Whitespace
'local'       Keyword
' '           Text.Whitespace
```

```
'e'          Name
','          Operator
' '          Text.Whitespace
'kb'         Name
','          Operator
' '          Text.Whitespace
'mo'         Name
';'          Punctuation
'\n    '     Text.Whitespace
'e'          Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'ee'         Name
';'
          Punctuation
'\n    '     Text.Whitespace
'kb'         Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'kb0'        Name
';'          Punctuation
'\n    '     Text.Whitespace
'mo'         Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'mode'       Name
'();'        Punctuation
'\n    '     Text.Whitespace
'while'      Keyword
' '          Text.Whitespace
'e'          Name
' '          Text.Whitespace
'::'         Operator
' '          Text.Whitespace
'"'          Punctuation
'specfunc'   Name
'('          Punctuation
'piecewise'  Name.Builtin
')'          Punctuation
'"'          Punctuation
' '          Text.Whitespace
'and'        Keyword
' '          Text.Whitespace
'nops'       Name.Builtin
'('          Punctuation
```

```
'e'          Name
')'          Punctuation
' '          Text.Whitespace
'='          Operator
' '          Text.Whitespace
'3'          Literal.Number.Integer
'
 '          Text.Whitespace
'do'         Keyword
'\n     '    Text.Whitespace
'if'         Keyword
' '          Text.Whitespace
'op'         Name.Builtin
'('          Punctuation
'3'          Literal.Number.Integer
','          Operator
'e'          Name
')'          Punctuation
' '          Text.Whitespace
'='          Operator
' '          Text.Whitespace
'mo'         Name
' '          Text.Whitespace
'then'       Keyword
'\n       '  Text.Whitespace
'kb'         Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'assert'     Name
'('          Punctuation
'op'         Name.Builtin
'('          Punctuation
'1'          Literal.Number.Integer
','          Operator
'e'          Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'kb'         Name
');'         Punctuation
'\n       '  Text.Whitespace
'e'          Name
' '          Text.Whitespace
':='         Operator
' '
          Text.Whitespace
'op'         Name.Builtin
```

```
'('          Punctuation
'2'          Literal.Number.Integer
','          Operator
'e'          Name
');'         Punctuation
'\n     '    Text.Whitespace
'elif'       Keyword
' '          Text.Whitespace
'op'         Name.Builtin
'('          Punctuation
'2'          Literal.Number.Integer
','          Operator
'e'          Name
')'          Punctuation
' '          Text.Whitespace
'='          Operator
' '          Text.Whitespace
'mo'         Name
' '          Text.Whitespace
'then'       Keyword
'\n       '  Text.Whitespace
'kb'         Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'assert'     Name
'('          Punctuation
'Not'        Name
'('          Punctuation
'op'         Name.Builtin
'('          Punctuation
'1'          Literal.Number.Integer
','          Operator
'e'          Name
'))'         Punctuation
','          Operator
' '          Text.Whitespace
'kb'
         Name
');'         Punctuation
'\n       '  Text.Whitespace
'e'          Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'op'         Name.Builtin
'('          Punctuation
'3'          Literal.Number.Integer
```

```
','          Operator
'e'          Name
');'         Punctuation
'\n     '    Text.Whitespace
'else'       Keyword
'\n       '  Text.Whitespace
'break'      Keyword
';'          Punctuation
'\n     '    Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'if'         Keyword
';'          Punctuation
'\n    '     Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'do'         Keyword
';'          Punctuation
'\n    '     Text.Whitespace
'ASSERT'     Name.Builtin
'('          Punctuation
'type'       Name.Builtin
'('          Punctuation
'kb'         Name
','          Operator
't_kb'       Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'''enter_piecewise:
 KB of piecewise conditions is not valid, so the input piecewise must not be valid.''' Literal.String
');'         Punctuation
'\n    '     Text.Whitespace
'e'          Name
','          Operator
' '          Text.Whitespace
'kb'         Name
'\n  '       Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'proc'       Keyword
';'          Punctuation
'\n\n  '     Text.Whitespace
'# heap is a list of t_binder and t_stmt\n' Comment.Single

'  '         Text.Whitespace
'# one invariant to maintain:\n' Comment.Single
```

```
' '          Text.Whitespace
'#  wrap(heap, mode(a,b)) = wrap(heap,a) * wrap(heap,b)\n' Comment.Single

'\n  '        Text.Whitespace
'# Also, a t_binder is a Product/product/Sum/sum.\n' Comment.Single

' '          Text.Whitespace
'# And, a t_stmt is a 1-hole context of a (multiplicative) AST,\n' Comment.Single

' '          Text.Whitespace
'#   used for [a ^ hole, hole ^ b, exp(hole), c * hole].\n' Comment.Single

'\n
  '        Text.Whitespace
'wrap'        Name
' '          Text.Whitespace
':='          Operator
' '          Text.Whitespace
'proc'        Keyword
'('           Punctuation
'heap'        Name
'::'          Operator
'list'        Name
','           Operator
' '          Text.Whitespace
'e1'          Name
','           Operator
' '          Text.Whitespace
'mode1'       Name
'::'          Operator
'identical'   Name
'('           Punctuation
'`*`'         Name
','           Operator
'`+`'         Name
')'           Punctuation
','           Operator
'\n              ' Text.Whitespace
'kb1'         Name
'::'          Operator
't_kb'        Name
','           Operator
' '          Text.Whitespace
'kb0'         Name
'::'          Operator
't_kb'        Name
','           Operator
' '          Text.Whitespace
```

```
'$'          Operator
')'          Punctuation
'\n    '     Text.Whitespace
'local'      Keyword
' '          Text.Whitespace
'e'          Name
','          Operator
'
 '           Text.Whitespace
'kb'         Name
','          Operator
' '          Text.Whitespace
'mode'       Name
','          Operator
' '          Text.Whitespace
'i'          Name
','          Operator
' '          Text.Whitespace
'entry'      Name
','          Operator
' '          Text.Whitespace
'rest'       Name
','          Operator
' '          Text.Whitespace
'var'        Name
','          Operator
' '          Text.Whitespace
'new_rng'    Name
','          Operator
' '          Text.Whitespace
'make'       Name
','          Operator
' '          Text.Whitespace
'logmake'    Name
','          Operator
'\n      '   Text.Whitespace
'dom_spec'   Name
','          Operator
' '          Text.Whitespace
'w'          Name
','          Operator
' '          Text.Whitespace
'wPow'       Name
','          Operator
' '          Text.Whitespace
'wExp'       Name
','          Operator
' '          Text.Whitespace
```

```
'arrrgs'      Name
';'           Punctuation
'\n
    '      Text.Whitespace
'e'           Name
'    '        Text.Whitespace
':='          Operator
' '           Text.Whitespace
'e1'          Name
';'           Punctuation
'\n    '      Text.Whitespace
'kb'          Name
'   '         Text.Whitespace
':='          Operator
' '           Text.Whitespace
'kb1'         Name
';'           Punctuation
'\n    '      Text.Whitespace
'mode'        Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'mode1'       Name
';'           Punctuation
'\n    '      Text.Whitespace
'for'         Keyword
' '           Text.Whitespace
'i'           Name
' '           Text.Whitespace
'from'        Keyword
' '           Text.Whitespace
'nops'        Name.Builtin
'('           Punctuation
'heap'        Name
')'           Punctuation
' '           Text.Whitespace
'to'          Keyword
' '           Text.Whitespace
'1'           Literal.Number.Integer
' '           Text.Whitespace
'by'          Keyword
' '
        Text.Whitespace
'-'           Operator
'1'           Literal.Number.Integer
' '           Text.Whitespace
'do'          Keyword
'\n      '    Text.Whitespace
```

```
'entry'       Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'op'          Name.Builtin
'('           Punctuation
'i'           Name
','           Operator
'heap'        Name
');'          Punctuation
'\n      '    Text.Whitespace
'if'          Keyword
' '           Text.Whitespace
'entry'       Name
' '           Text.Whitespace
'::'          Operator
' '           Text.Whitespace
't_binder'    Name
' '           Text.Whitespace
'then'        Keyword
'\n        '  Text.Whitespace
'if'          Keyword
' '           Text.Whitespace
'not'         Keyword
' '           Text.Whitespace
'('           Punctuation
'op'          Name.Builtin
'('           Punctuation
'1'           Literal.Number.Integer
','           Operator
'entry'       Name
')'           Punctuation
' '           Text.Whitespace
'in'
          Keyword
' '           Text.Whitespace
'`if`'        Name
'('           Punctuation
'mode'        Name
'='           Operator
'`+`'         Name
','           Operator
' '           Text.Whitespace
'{'           Punctuation
'sum'         Name
','           Operator
'Sum'         Name
'}'           Punctuation
```

```
','         Operator
'\n                                    ' Text.Whitespace
'{'         Punctuation
'product'   Name
','         Operator
'Product'   Name
'}))'       Punctuation
' '         Text.Whitespace
'then'      Keyword
'\n         ' Text.Whitespace
'print'     Name.Builtin
'('         Punctuation
'"Warning: heap mode inconsistency"' Literal.String
','         Operator
' '         Text.Whitespace
'heap'      Name
','         Operator
' '         Text.Whitespace
'mode1'     Name
')'         Punctuation
'\n       '  Text.Whitespace
'end'       Keyword
' '         Text.Whitespace
'if'        Keyword
';'
        Punctuation
'\n       '  Text.Whitespace
'e'         Name
','         Operator
' '         Text.Whitespace
'kb'        Name
' '         Text.Whitespace
':='        Operator
' '         Text.Whitespace
'enter_piecewise' Name
'('         Punctuation
'e'         Name
','         Operator
' '         Text.Whitespace
'kb'        Name
','         Operator
' '         Text.Whitespace
'mode'      Name
');'        Punctuation
'\n       '  Text.Whitespace
'rest'      Name
' '         Text.Whitespace
':='        Operator
```

```
' '          Text.Whitespace
'kb_subtract' Name
'('          Punctuation
'kb'         Name
','          Operator
' '          Text.Whitespace
'op'         Name.Builtin
'('          Punctuation
'2'          Literal.Number.Integer
','          Operator
'entry'      Name
'));'        Punctuation
'\n        '  Text.Whitespace
'new_rng'    Name
','          Operator
' '          Text.Whitespace
'rest'       Name
' '
         Text.Whitespace
':='         Operator
' '          Text.Whitespace
'selectremove' Name.Builtin
'('          Punctuation
'type'       Name.Builtin
','          Operator
' '          Text.Whitespace
'rest'       Name
','          Operator
'\n          ' Text.Whitespace
'{['         Punctuation
'identical'  Name
'('          Punctuation
'genType'    Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'name'       Name
','          Operator
' '          Text.Whitespace
'specfunc'   Name
'('          Punctuation
'HInt'       Name
')]'         Punctuation
','          Operator
'\n          ' Text.Whitespace
'['          Punctuation
'identical'  Name
'('          Punctuation
```

```
'genLet'      Name
')'           Punctuation
','           Operator
' '           Text.Whitespace
'name'        Name
','           Operator
' '           Text.Whitespace
'anything'    Name
']});'        Punctuation
'\n        '  Text.Whitespace
'if'
  Keyword
' '           Text.Whitespace
'not'         Keyword
' '           Text.Whitespace
'('           Punctuation
'new_rng'     Name
' '           Text.Whitespace
'::'          Operator
' '           Text.Whitespace
'['           Punctuation
'list'        Name
'])'          Punctuation
' '           Text.Whitespace
'then'        Keyword
'\n          ' Text.Whitespace
'error'       Keyword
' '           Text.Whitespace
'"kb_subtract should return exactly one gen*"' Literal.String
'\n        '  Text.Whitespace
'end'         Keyword
' '           Text.Whitespace
'if'          Keyword
';'           Punctuation
'\n        '  Text.Whitespace
'new_rng'     Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'op'          Name.Builtin
'('           Punctuation
'new_rng'     Name
');'          Punctuation
'\n        '  Text.Whitespace
'var'         Name
'     '       Text.Whitespace
':='          Operator
' '           Text.Whitespace
```

```
'op'          Name.Builtin
'('
          Punctuation
'2'           Literal.Number.Integer
','           Operator
'new_rng'     Name
');'          Punctuation
'\n        '  Text.Whitespace
'if'          Keyword
' '           Text.Whitespace
'op'          Name.Builtin
'('           Punctuation
'1'           Literal.Number.Integer
','           Operator
'new_rng'     Name
')'           Punctuation
' '           Text.Whitespace
'='           Operator
' '           Text.Whitespace
'genType'     Name
' '           Text.Whitespace
'then'        Keyword
'\n          ' Text.Whitespace
'make'        Name
'    '        Text.Whitespace
':='          Operator
' '           Text.Whitespace
'op'          Name.Builtin
'('           Punctuation
'1'           Literal.Number.Integer
','           Operator
'entry'       Name
');'          Punctuation
'\n          ' Text.Whitespace
'new_rng'     Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'range_of_HInt' Name
'('           Punctuation
'op'
          Name.Builtin
'('           Punctuation
'3'           Literal.Number.Integer
','           Operator
'new_rng'     Name
'));'         Punctuation
'\n        '  Text.Whitespace
```

```
'else'        Keyword
' '           Text.Whitespace
'# op(1,new_rng) = genLet\n' Comment.Single

'          '  Text.Whitespace
'make'        Name
'    '        Text.Whitespace
':='          Operator
' '           Text.Whitespace
'eval'        Name.Builtin
';'           Punctuation
'\n          ' Text.Whitespace
'new_rng'     Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'op'          Name.Builtin
'('           Punctuation
'3'           Literal.Number.Integer
','           Operator
'new_rng'     Name
');'          Punctuation
'\n        '  Text.Whitespace
'end'         Keyword
' '           Text.Whitespace
'if'          Keyword
';'           Punctuation
'\n        '  Text.Whitespace
'dom_spec'    Name
','           Operator
' '           Text.Whitespace
'rest'
        Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'selectremove' Name.Builtin
'('           Punctuation
'depends'     Name
','           Operator
'\n          ' Text.Whitespace
'map'         Name.Builtin
'('           Punctuation
'proc'        Keyword
'('           Punctuation
'a'           Name
'::'          Operator
'['           Punctuation
```

'identical' Name
'(' Punctuation
'assert' Name
')' Punctuation
',' Operator
'anything' Name
']' Punctuation
',' Operator
'$' Operator
')' Punctuation
' ' Text.Whitespace
'op' Name.Builtin
'(' Punctuation
'2' Literal.Number.Integer
',' Operator
'a' Name
')' Punctuation
' ' Text.Whitespace
'end' Keyword
' ' Text.Whitespace
'proc' Keyword
',' Operator
' ' Text.Whitespace
'rest' Name
')'
  Punctuation
',' Operator
'\n ' Text.Whitespace
'var' Name
');' Punctuation
'\n\n ' Text.Whitespace
'# Like e := make(piecewise(And(op(dom_spec)), e, mode()), var=new_rng);\n' Comment.Single

' ' Text.Whitespace
'# but try to simplify by pushing the make and the piecewise into e\n' Comment.Single

' ' Text.Whitespace
'(' Punctuation
'e' Name
',' Operator
' ' Text.Whitespace
'w' Name
')' Punctuation
' ' Text.Whitespace
':=' Operator
' ' Text.Whitespace
'selectremove' Name.Builtin
'(' Punctuation

```
'depends'     Name
','           Operator
' '           Text.Whitespace
'convert'     Name.Builtin
'('           Punctuation
'e'           Name
','           Operator
' '           Text.Whitespace
"""           Punctuation
'list'        Name
"""           Punctuation
','           Operator
' '           Text.Whitespace
'`*`'         Name
')'
          Punctuation
','           Operator
' '           Text.Whitespace
'var'         Name
');'          Punctuation
'\n       '   Text.Whitespace
'w'           Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'`*`'         Name
'('           Punctuation
'op'          Name.Builtin
'('           Punctuation
'w'           Name
'));'         Punctuation
'\n       '   Text.Whitespace
'if'          Keyword
' '           Text.Whitespace
'mode'        Name
' '           Text.Whitespace
'='           Operator
' '           Text.Whitespace
'`*`'         Name
' '           Text.Whitespace
'then'        Keyword
'\n          ' Text.Whitespace
'('           Punctuation
'wPow'        Name
','           Operator
' '           Text.Whitespace
'e'           Name
')'           Punctuation
```

```
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'selectremove' Name.Builtin
'('          Punctuation
'type'       Name.Builtin
','
        Operator
' '          Text.Whitespace
'e'          Name
','          Operator
' '          Text.Whitespace
'"'          Punctuation
'`^`'        Name
'"'          Punctuation
'('          Punctuation
'"'          Punctuation
'freeof'     Name
'"'          Punctuation
'('          Punctuation
'var'        Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'"'          Punctuation
'anything'   Name
'"'          Punctuation
'));'        Punctuation
'\n          ' Text.Whitespace
'('          Punctuation
'wExp'       Name
','          Operator
' '          Text.Whitespace
'e'          Name
')'          Punctuation
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'selectremove' Name.Builtin
'('          Punctuation
'type'       Name.Builtin
','          Operator
' '          Text.Whitespace
'e'          Name
','          Operator
' '          Text.Whitespace
'"'          Punctuation
'exp'
```

Name
'(' Punctuation
'anything' Name
')' Punctuation
'"' Punctuation
');' Punctuation
'\n ' Text.Whitespace
'wExp' Name
' ' Text.Whitespace
':=' Operator
' ' Text.Whitespace
'`+`' Name
'(' Punctuation
'op' Name.Builtin
'(' Punctuation
'map2' Name
'(' Punctuation
'op' Name.Builtin
',' Operator
' ' Text.Whitespace
'1' Literal.Number.Integer
',' Operator
' ' Text.Whitespace
'wExp' Name
')));' Punctuation
'\n ' Text.Whitespace
'wExp' Name
' ' Text.Whitespace
':=' Operator
' ' Text.Whitespace
'expand' Name.Builtin
'(' Punctuation
'wExp' Name
',' Operator
' ' Text.Whitespace
'op' Name.Builtin
'(' Punctuation
'indets' Name.Builtin
'(' Punctuation
'wExp'
Name
',' Operator
' ' Text.Whitespace
'function' Name
')));' Punctuation
'\n ' Text.Whitespace
'logmake' Name
' ' Text.Whitespace

```
':='          Operator
' '          Text.Whitespace
'proc'        Keyword
'('          Punctuation
't'          Name
')'          Punctuation
'\n           ' Text.Whitespace
'local'       Keyword
' '          Text.Whitespace
's'          Name
','          Operator
' '          Text.Whitespace
'r'          Name
';'          Punctuation
'\n           ' Text.Whitespace
's'          Name
','          Operator
' '          Text.Whitespace
'r'          Name
' '          Text.Whitespace
':='          Operator
' '          Text.Whitespace
'selectremove' Name.Builtin
'('          Punctuation
'depends'     Name
','          Operator
' '          Text.Whitespace
'convert'     Name.Builtin
'('          Punctuation
't'          Name
','          Operator
' '          Text.Whitespace
'''''
          Punctuation
'list'        Name
'''''          Punctuation
','          Operator
' '          Text.Whitespace
'`*`'         Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'var'         Name
');'         Punctuation
'\n           ' Text.Whitespace
'`*`'         Name
'('          Punctuation
'op'          Name.Builtin
```

```
'('          Punctuation
'r'          Name
')'          Punctuation
','          Operator
'\n              ' Text.Whitespace
'`if`'       Name
'('          Punctuation
'make'       Name
'='          Operator
'eval'       Name.Builtin
','          Operator
'eval'       Name.Builtin
','          Operator
'Sum'        Name
')'          Punctuation
'\n                  ' Text.Whitespace
'('          Punctuation
'piecewise_And' Name
'('          Punctuation
'dom_spec'   Name
','          Operator
' '          Text.Whitespace
'`*`'        Name
'('          Punctuation
'op'         Name.Builtin
'('
    Punctuation
's'          Name
'))'         Punctuation
','          Operator
' '          Text.Whitespace
'0'          Literal.Number.Integer
')'          Punctuation
','          Operator
' '          Text.Whitespace
'var'        Name
'='          Operator
'new_rng'    Name
'));'        Punctuation
'\n          ' Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'proc'       Keyword
';'          Punctuation
'\n          ' Text.Whitespace
'w'          Name
' '          Text.Whitespace
':='         Operator
```

```
' '          Text.Whitespace
'`*`'        Name
'('          Punctuation
' '          Text.Whitespace
'`if`'       Name
'('          Punctuation
'w'          Name
' '          Text.Whitespace
'='          Operator
' '          Text.Whitespace
'1'          Literal.Number.Integer
','          Operator
' '          Text.Whitespace
'1'          Literal.Number.Integer
','          Operator
' '          Text.Whitespace
'w'          Name
'
 '          Text.Whitespace
'^'          Operator
' '          Text.Whitespace
'logmake'    Name
'('          Punctuation
'1'          Literal.Number.Integer
'))'         Punctuation
'\n                ' Text.Whitespace
','          Operator
' '          Text.Whitespace
'op'         Name.Builtin
'('          Punctuation
'map'        Name.Builtin
'((('        Punctuation
'f'          Name
' '          Text.Whitespace
'->'         Operator
' '          Text.Whitespace
'op'         Name.Builtin
'('          Punctuation
'1'          Literal.Number.Integer
','          Operator
'f'          Name
')'          Punctuation
' '          Text.Whitespace
'^'          Operator
' '          Text.Whitespace
'logmake'    Name
'('          Punctuation
'op'         Name.Builtin
```

```
'('          Punctuation
'2'          Literal.Number.Integer
','          Operator
'f'          Name
')))'        Punctuation
','          Operator
' '          Text.Whitespace
'wPow'
    Name
'))'         Punctuation
'\n                ' Text.Whitespace
','          Operator
' '          Text.Whitespace
'`if`'       Name
'('          Punctuation
'wExp'       Name
' '          Text.Whitespace
'='          Operator
' '          Text.Whitespace
'0'          Literal.Number.Integer
','          Operator
' '          Text.Whitespace
'1'          Literal.Number.Integer
','          Operator
' '          Text.Whitespace
'exp'        Name
'('          Punctuation
'maptype'    Name
'('          Punctuation
'`+`'        Name
','          Operator
'logmake'    Name
','          Operator
'wExp'       Name
')))'        Punctuation
' '          Text.Whitespace
');'         Punctuation
'\n       '  Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'if'         Keyword
';'          Punctuation
'\n       '  Text.Whitespace
'e'          Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'w'
```

Name
' ' Text.Whitespace
'*' Operator
' ' Text.Whitespace
'make' Name
'(' Punctuation
'piecewise_And' Name
'(' Punctuation
'dom_spec' Name
',' Operator
' ' Text.Whitespace
'`*`' Name
'(' Punctuation
'op' Name.Builtin
'(' Punctuation
'e' Name
'))' Punctuation
',' Operator
' ' Text.Whitespace
'mode' Name
'())' Punctuation
',' Operator
' ' Text.Whitespace
'var' Name
'=' Operator
'new_rng' Name
');' Punctuation
'\n\n ' Text.Whitespace
"# `rest' originally comes from `entry', and this reinserts it after some\n" Comment.Single

' ' Text.Whitespace
'# processing. The original KB was valid, so this one should also be valid.\n' Comment.Single

' ' Text.Whitespace
'kb' Name
' ' Text.Whitespace
':=' Operator
' '
Text.Whitespace
'foldr' Name
'(' Punctuation
'assert' Name
',' Operator
' ' Text.Whitespace
'op' Name.Builtin
'(' Punctuation
'2' Literal.Number.Integer
',' Operator

```
'entry'       Name
')'           Punctuation
','           Operator
' '           Text.Whitespace
'op'          Name.Builtin
'('           Punctuation
'rest'        Name
'));'         Punctuation
'\n       '   Text.Whitespace
'ASSERT'      Name.Builtin
'('           Punctuation
'type'        Name.Builtin
'('           Punctuation
'kb'          Name
','           Operator
't_kb'        Name
')'           Punctuation
','           Operator
' '           Text.Whitespace
'"Loop/wrap{t_binder}: rebuilding kb produced contradiction"' Literal.String
');'          Punctuation
'\n\n     '   Text.Whitespace
'elif'        Keyword
' '           Text.Whitespace
'entry'       Name
' '           Text.Whitespace
'::'          Operator
' '           Text.Whitespace
't_stmt'
      Name
' '           Text.Whitespace
'then'        Keyword
'\n       '   Text.Whitespace
'# We evaluate arrrgs first, in case op(1,stmt) is an operation (such as\n' Comment.Single

'       '     Text.Whitespace
'# piecewise) that looks ahead at how many arguments it is passed before\n' Comment.Single

'       '     Text.Whitespace
'# they are evaluated.\n' Comment.Single

'       '     Text.Whitespace
'arrrgs'      Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'op'          Name.Builtin
'('           Punctuation
```

```
'op'        Name.Builtin
'('         Punctuation
'2'         Literal.Number.Integer
','         Operator
'entry'     Name
'))'        Punctuation
','         Operator
' '         Text.Whitespace
'e'         Name
','         Operator
' '         Text.Whitespace
'op'        Name.Builtin
'('         Punctuation
'op'        Name.Builtin
'('         Punctuation
'3'         Literal.Number.Integer
','
         Operator
'entry'     Name
'));'       Punctuation
'\n      '  Text.Whitespace
'e'         Name
'     '     Text.Whitespace
':='        Operator
' '         Text.Whitespace
'op'        Name.Builtin
'('         Punctuation
'1'         Literal.Number.Integer
','         Operator
'entry'     Name
')('        Punctuation
'arrrgs'    Name
');'        Punctuation
'\n      '  Text.Whitespace
'if'        Keyword
' '         Text.Whitespace
'entry'     Name
' '         Text.Whitespace
'::'        Operator
' '         Text.Whitespace
't_exp'     Name
' '         Text.Whitespace
'then'      Keyword
'\n        ' Text.Whitespace
'if'        Keyword
' '         Text.Whitespace
'mode'      Name
' '         Text.Whitespace
```

```
'<>'        Operator
' '         Text.Whitespace
'`+`'       Name
' '         Text.Whitespace
'then'      Keyword
'\n         ' Text.Whitespace
'print'     Name.Builtin
'('         Punctuation
'"Warning:
 heap mode inconsistency?"' Literal.String
','         Operator
' '         Text.Whitespace
'heap'      Name
','         Operator
' '         Text.Whitespace
'mode1'     Name
')'         Punctuation
'\n         ' Text.Whitespace
'end'       Keyword
' '         Text.Whitespace
'if'        Keyword
';'         Punctuation
'\n         ' Text.Whitespace
'mode'      Name
' '         Text.Whitespace
':='        Operator
' '         Text.Whitespace
'`*`'       Name
';'         Punctuation
'\n       '  Text.Whitespace
'end'       Keyword
' '         Text.Whitespace
'if'        Keyword
'\n     '   Text.Whitespace
'else'      Keyword
' '         Text.Whitespace
'error'     Keyword
' '         Text.Whitespace
'"Malformed heap entry %1"' Literal.String
','         Operator
' '         Text.Whitespace
'entry'     Name
' '         Text.Whitespace
'end'       Keyword
' '         Text.Whitespace
'if'        Keyword
'\n
```

```
    '      Text.Whitespace
'end'         Keyword
' '           Text.Whitespace
'do'          Keyword
';'           Punctuation
'\n    '      Text.Whitespace
'if'          Keyword
' '           Text.Whitespace
'mode'        Name
' '           Text.Whitespace
'<>'          Operator
' '           Text.Whitespace
'`*`'         Name
' '           Text.Whitespace
'then'        Keyword
'\n      '    Text.Whitespace
'print'       Name.Builtin
'('           Punctuation
'"Warning: heap mode inconsistency??"' Literal.String
','           Operator
' '           Text.Whitespace
'heap'        Name
','           Operator
' '           Text.Whitespace
'mode1'       Name
')'           Punctuation
'\n    '      Text.Whitespace
'end'         Keyword
' '           Text.Whitespace
'if'          Keyword
';'           Punctuation
'\n    '      Text.Whitespace
'e'           Name
','           Operator
' '           Text.Whitespace
'kb'          Name
' '           Text.Whitespace
':='          Operator
' '
      Text.Whitespace
'enter_piecewise' Name
'('           Punctuation
'e'           Name
','           Operator
' '           Text.Whitespace
'kb'          Name
','           Operator
' '           Text.Whitespace
```

```
'mode'        Name
');'          Punctuation
'\n    '      Text.Whitespace
'rest'        Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'kb_subtract' Name
'('           Punctuation
'kb'          Name
','           Operator
' '           Text.Whitespace
'kb0'         Name
');'          Punctuation
'\n    '      Text.Whitespace
'rest'        Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'map'         Name.Builtin
'('           Punctuation
'proc'        Keyword
'('           Punctuation
'a'           Name
'::'          Operator
'['           Punctuation
'identical'   Name
'('           Punctuation
'assert'      Name
')'           Punctuation
','           Operator
'anything'    Name
']'
 Punctuation
','           Operator
'$'           Operator
')'           Punctuation
' '           Text.Whitespace
'op'          Name.Builtin
'('           Punctuation
'2'           Literal.Number.Integer
','           Operator
'a'           Name
')'           Punctuation
' '           Text.Whitespace
'end'         Keyword
' '           Text.Whitespace
'proc'        Keyword
```

```
','         Operator
' '         Text.Whitespace
'rest'      Name
');'        Punctuation
'\n    '    Text.Whitespace
'('         Punctuation
'wExp'      Name
','         Operator
' '         Text.Whitespace
'e'         Name
')'         Punctuation
' '         Text.Whitespace
':='        Operator
' '         Text.Whitespace
'selectremove' Name.Builtin
'('         Punctuation
'type'      Name.Builtin
','         Operator
' '         Text.Whitespace
'convert'   Name.Builtin
'('         Punctuation
'e'         Name
','         Operator
' '         Text.Whitespace
"""
    Punctuation
'list'      Name
"""         Punctuation
','         Operator
' '         Text.Whitespace
'`*`'       Name
')'         Punctuation
','         Operator
' '         Text.Whitespace
"""         Punctuation
'exp'       Name
'('         Punctuation
'anything'  Name
')'         Punctuation
"""         Punctuation
');'        Punctuation
'\n    '    Text.Whitespace
'wExp'      Name
' '         Text.Whitespace
':='        Operator
' '         Text.Whitespace
'`+`'       Name
'('         Punctuation
```

```
'op'          Name.Builtin
'('           Punctuation
'map2'        Name
'('           Punctuation
'op'          Name.Builtin
','           Operator
' '           Text.Whitespace
'1'           Literal.Number.Integer
','           Operator
' '           Text.Whitespace
'wExp'        Name
')));'        Punctuation
'\n    '      Text.Whitespace
'wExp'        Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'expand'
      Name.Builtin
'('           Punctuation
'wExp'        Name
','           Operator
' '           Text.Whitespace
'op'          Name.Builtin
'('           Punctuation
'indets'      Name.Builtin
'('           Punctuation
'wExp'        Name
','           Operator
' '           Text.Whitespace
'function'    Name
')));'        Punctuation
'\n    '      Text.Whitespace
'logmake'     Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'('           Punctuation
't'           Name
' '           Text.Whitespace
'->'          Operator
' '           Text.Whitespace
't'           Name
' '           Text.Whitespace
'*'           Operator
' '           Text.Whitespace
'piecewise_And' Name
'('           Punctuation
```

```
'rest'        Name
','           Operator
'1'           Literal.Number.Integer
','           Operator
'0'           Literal.Number.Integer
'));'         Punctuation
'\n    '      Text.Whitespace
'`if`'        Name
'('           Punctuation
'wExp'
        Name
' '           Text.Whitespace
'='           Operator
' '           Text.Whitespace
'0'           Literal.Number.Integer
','           Operator
' '           Text.Whitespace
'1'           Literal.Number.Integer
','           Operator
' '           Text.Whitespace
'exp'         Name
'('           Punctuation
'maptype'     Name
'('           Punctuation
'`+`'         Name
','           Operator
'logmake'     Name
','           Operator
'wExp'        Name
')))'         Punctuation
'\n      '    Text.Whitespace
'*'           Operator
' '           Text.Whitespace
'piecewise_And' Name
'('           Punctuation
'rest'        Name
','           Operator
'`*`'         Name
'('           Punctuation
'op'          Name.Builtin
'('           Punctuation
'e'           Name
'))'          Punctuation
','           Operator
'1'           Literal.Number.Integer
');'          Punctuation
'\n  '        Text.Whitespace
'end'         Keyword
```

```
' '          Text.Whitespace
'proc'       Keyword
';'
          Punctuation
'\n\n  '     Text.Whitespace
'# Rewrite product(...piecewise(i+42=lo+42,th,el)...,i=lo..hi)\n' Comment.Single

'  '         Text.Whitespace
'# to eval(...th...,i=lo)*product(...el...,i=lo+1..hi)\n' Comment.Single

'  '         Text.Whitespace
't_peel'     Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'"'          Punctuation
'And'        Name
'('          Punctuation
'specfunc'   Name
'({'         Punctuation
'sum'        Name
','          Operator
'Sum'        Name
','          Operator
'product'    Name
','          Operator
'Product'    Name
'})'         Punctuation
','          Operator
'\n                ' Text.Whitespace
'anyfunc'    Name
'('          Punctuation
'anything'   Name
','          Operator
' '          Text.Whitespace
'name'       Name
'='          Operator
'range'      Name
'))'         Punctuation
'"'          Punctuation
';'          Punctuation
'\n  '       Text.Whitespace
'peel'
       Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'proc'       Keyword
```

```
'('          Punctuation
'e'          Name
','          Operator
' '          Text.Whitespace
'$'          Operator
')'          Punctuation
'\n    '     Text.Whitespace
'subsindets'  Name.Builtin
'('          Punctuation
'e'          Name
','          Operator
' '          Text.Whitespace
't_peel'     Name
','          Operator
' '          Text.Whitespace
'do_peel'    Name
');'         Punctuation
'\n  '       Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'proc'       Keyword
';'          Punctuation
'\n  '       Text.Whitespace
'do_peel'    Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'proc'       Keyword
'('          Punctuation
'e'          Name
','          Operator
' '          Text.Whitespace
'$'          Operator
')'          Punctuation
'\n    '
 Text.Whitespace
'local'      Keyword
' '          Text.Whitespace
'make'       Name
','          Operator
' '          Text.Whitespace
'body'       Name
','          Operator
' '          Text.Whitespace
'x'          Name
','          Operator
' '          Text.Whitespace
'r'          Name
```

```
','         Operator
' '         Text.Whitespace
'cond'      Name
','         Operator
' '         Text.Whitespace
'line'      Name
','         Operator
' '         Text.Whitespace
'test'      Name
','         Operator
' '         Text.Whitespace
'x0'        Name
','         Operator
' '         Text.Whitespace
'r0'        Name
','         Operator
' '         Text.Whitespace
'cond0'     Name
','         Operator
' '         Text.Whitespace
'here'      Name
','         Operator
' '         Text.Whitespace
'rest'      Name
';'         Punctuation
'\n    '    Text.Whitespace
'if'        Keyword
' '         Text.Whitespace
'not'
  Keyword
' '         Text.Whitespace
'('         Punctuation
'e'         Name
' '         Text.Whitespace
'::'        Operator
' '         Text.Whitespace
't_peel'    Name
')'         Punctuation
' '         Text.Whitespace
'then'      Keyword
' '         Text.Whitespace
'return'    Keyword
' '         Text.Whitespace
'e'         Name
' '         Text.Whitespace
'end'       Keyword
' '         Text.Whitespace
'if'        Keyword
```

```
';'         Punctuation
'\n    '     Text.Whitespace
'if'        Keyword
'   '       Text.Whitespace
'op'        Name.Builtin
'('         Punctuation
'0'         Literal.Number.Integer
','         Operator
'e'         Name
')'         Punctuation
' '         Text.Whitespace
'in'        Keyword
' '         Text.Whitespace
'"""        Punctuation
'{'         Punctuation
'sum'       Name
'    '      Text.Whitespace
','         Operator
'Sum'       Name
'    '      Text.Whitespace
'}'
    Punctuation
'"""        Punctuation
' '         Text.Whitespace
'then'      Keyword
' '         Text.Whitespace
'make'      Name
' '         Text.Whitespace
':='        Operator
' '         Text.Whitespace
'`+`'       Name
';'         Punctuation
'\n    '     Text.Whitespace
'elif'      Keyword
' '         Text.Whitespace
'op'        Name.Builtin
'('         Punctuation
'0'         Literal.Number.Integer
','         Operator
'e'         Name
')'         Punctuation
' '         Text.Whitespace
'in'        Keyword
' '         Text.Whitespace
'"""        Punctuation
'{'         Punctuation
'product'   Name
','         Operator
```

```
'Product'     Name
'}'           Punctuation
"""           Punctuation
' '           Text.Whitespace
'then'        Keyword
' '           Text.Whitespace
'make'        Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'`*`'         Name
';'           Punctuation
' '
  Text.Whitespace
'end'         Keyword
' '           Text.Whitespace
'if'          Keyword
';'           Punctuation
'\n    '      Text.Whitespace
'body'        Name
','           Operator
' '           Text.Whitespace
'r'           Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'op'          Name.Builtin
'('           Punctuation
'e'           Name
');'          Punctuation
'\n    '      Text.Whitespace
'x'           Name
','           Operator
' '           Text.Whitespace
'r'           Name
'    '        Text.Whitespace
':='          Operator
' '           Text.Whitespace
'op'          Name.Builtin
'('           Punctuation
'r'           Name
');'          Punctuation
'\n    '      Text.Whitespace
'for'         Keyword
' '           Text.Whitespace
'cond'        Name
' '           Text.Whitespace
'in'          Keyword
```

```
' '          Text.Whitespace
'indets'     Name.Builtin
'('          Punctuation
'body'       Name
','          Operator
'
 '           Text.Whitespace
"""          Punctuation
'{'          Punctuation
'`=`'        Name
'('          Punctuation
'algebraic'  Name
')'          Punctuation
','          Operator
'`<`'        Name
','          Operator
'`<=`'       Name
'}'          Punctuation
"""          Punctuation
')'          Punctuation
' '          Text.Whitespace
'do'         Keyword
'\n     '    Text.Whitespace
'line'       Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'`-`'        Name
'('          Punctuation
'op'         Name.Builtin
'('          Punctuation
'cond'       Name
'));'        Punctuation
'\n     '    Text.Whitespace
'if'         Keyword
' '          Text.Whitespace
'1'          Literal.Number.Integer
' '          Text.Whitespace
'<>'         Operator
' '          Text.Whitespace
'degree'     Name.Builtin
'('          Punctuation
'line'       Name
','          Operator
' '          Text.Whitespace
'x'
  Name
')'          Punctuation
```

```
' '          Text.Whitespace
'then'       Keyword
' '          Text.Whitespace
'next'       Keyword
' '          Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'if'         Keyword
';'          Punctuation
'\n     '    Text.Whitespace
'if'         Keyword
' '          Text.Whitespace
'cond'       Name
' '          Text.Whitespace
'::'         Operator
' '          Text.Whitespace
'`=`'        Name
' '          Text.Whitespace
'then'       Keyword
'\n       '  Text.Whitespace
'cond0'      Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'true'       Name
';'          Punctuation
'\n       '  Text.Whitespace
'if'         Keyword
' '          Text.Whitespace
'Testzero'   Name
'('          Punctuation
'eval'       Name.Builtin
'('          Punctuation
'line'       Name
','          Operator
' '          Text.Whitespace
'x'          Name
'='          Operator
'lhs'
      Name.Builtin
'('          Punctuation
'r'          Name
')))'        Punctuation
' '          Text.Whitespace
'then'       Keyword
'\n         ' Text.Whitespace
'x0'         Name
' '          Text.Whitespace
```

```
':='        Operator
' '         Text.Whitespace
'lhs'       Name.Builtin
'('         Punctuation
'r'         Name
');'        Punctuation
' '         Text.Whitespace
'r0'        Name
' '         Text.Whitespace
':='        Operator
' '         Text.Whitespace
'applyop'   Name
'('         Punctuation
'`+`'       Name
','         Operator
' '         Text.Whitespace
'1'         Literal.Number.Integer
','         Operator
' '         Text.Whitespace
'r'         Name
','         Operator
' '         Text.Whitespace
'1'         Literal.Number.Integer
');'        Punctuation
'\n       ' Text.Whitespace
'elif'      Keyword
' '         Text.Whitespace
'Testzero'  Name
'('         Punctuation
'eval'      Name.Builtin
'('
          Punctuation
'line'      Name
','         Operator
' '         Text.Whitespace
'x'         Name
'='         Operator
'rhs'       Name.Builtin
'('         Punctuation
'r'         Name
')))'       Punctuation
' '         Text.Whitespace
'then'      Keyword
'\n         ' Text.Whitespace
'x0'        Name
' '         Text.Whitespace
':='        Operator
' '         Text.Whitespace
```

```
'rhs'        Name.Builtin
'('          Punctuation
'r'          Name
');'         Punctuation
' '          Text.Whitespace
'r0'         Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'applyop'    Name
'('          Punctuation
'`-`'        Name
','          Operator
' '          Text.Whitespace
'2'          Literal.Number.Integer
','          Operator
' '          Text.Whitespace
'r'          Name
','          Operator
' '          Text.Whitespace
'1'          Literal.Number.Integer
');'         Punctuation
'\n
        '  Text.Whitespace
'else'       Keyword
' '          Text.Whitespace
'next'       Keyword
' '          Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'if'         Keyword
';'          Punctuation
'\n     '    Text.Whitespace
'else'       Keyword
'\n        '  Text.Whitespace
'test'       Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'proc'       Keyword
'('          Punctuation
'x0'         Name
','          Operator
' '          Text.Whitespace
'x1'         Name
','          Operator
' '          Text.Whitespace
'$'          Operator
```

```
')'         Punctuation
'\n         ' Text.Whitespace
'local'      Keyword
' '         Text.Whitespace
'res'        Name
';'         Punctuation
'\n         ' Text.Whitespace
'res'        Name
' '         Text.Whitespace
':='         Operator
' '         Text.Whitespace
'evalb'      Name.Builtin
'('         Punctuation
'not'        Keyword
' '
     Text.Whitespace
'op'         Name.Builtin
'('         Punctuation
'0'          Literal.Number.Integer
','         Operator
'cond'       Name
')('         Punctuation
'eval'       Name.Builtin
'('         Punctuation
'line'       Name
','         Operator
' '         Text.Whitespace
'x'          Name
'='          Operator
'x1'         Name
')'         Punctuation
','         Operator
' '         Text.Whitespace
'0'          Literal.Number.Integer
'));'        Punctuation
'\n         ' Text.Whitespace
'`if`'       Name
'('         Punctuation
'res'        Name
' '         Text.Whitespace
'in'         Keyword
' '         Text.Whitespace
'"'          Punctuation
'{'         Punctuation
'true'       Name
','         Operator
'false'      Name
'}'         Punctuation
```

```
"""          Punctuation
'\n              ' Text.Whitespace
'and'        Keyword
' '          Text.Whitespace
'evalb'      Name.Builtin
'('          Punctuation
'op'
      Name.Builtin
'('          Punctuation
'0'          Literal.Number.Integer
','          Operator
'cond'       Name
')('         Punctuation
'eval'       Name.Builtin
'('          Punctuation
'line'       Name
','          Operator
' '          Text.Whitespace
'x'          Name
'='          Operator
'x0'         Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'0'          Literal.Number.Integer
'))'         Punctuation
' '          Text.Whitespace
'='          Operator
' '          Text.Whitespace
'res'        Name
','          Operator
'\n             ' Text.Whitespace
'res'        Name
','          Operator
'\n             ' Text.Whitespace
'FAIL'       Name
')'          Punctuation
'\n       '  Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'proc'       Keyword
';'          Punctuation
'\n       '  Text.Whitespace
'cond0'      Name
' '          Text.Whitespace
':='         Operator
' '
```

```
        Text.Whitespace
'test'      Name
'('         Punctuation
'lhs'       Name.Builtin
'('         Punctuation
'r'         Name
')'         Punctuation
','         Operator
' '         Text.Whitespace
'lhs'       Name.Builtin
'('         Punctuation
'r'         Name
')'         Punctuation
'+'         Operator
'1'         Literal.Number.Integer
');'        Punctuation
'\n       '  Text.Whitespace
'if'        Keyword
' '         Text.Whitespace
'cond0'     Name
' '         Text.Whitespace
'<>'        Operator
' '         Text.Whitespace
'FAIL'      Name
' '         Text.Whitespace
'then'      Keyword
'\n         ' Text.Whitespace
'x0'        Name
' '         Text.Whitespace
':='        Operator
' '         Text.Whitespace
'lhs'       Name.Builtin
'('         Punctuation
'r'         Name
');'        Punctuation
' '         Text.Whitespace
'r0'        Name
' '         Text.Whitespace
':='        Operator
' '
      Text.Whitespace
'applyop'   Name
'('         Punctuation
'`+`'       Name
','         Operator
' '         Text.Whitespace
'1'         Literal.Number.Integer
','         Operator
```

```
' '          Text.Whitespace
'r'          Name
','          Operator
' '          Text.Whitespace
'1'          Literal.Number.Integer
');'         Punctuation
'\n        '  Text.Whitespace
'else'       Keyword
'\n          ' Text.Whitespace
'cond0'      Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'test'       Name
'('          Punctuation
'rhs'        Name.Builtin
'('          Punctuation
'r'          Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'rhs'        Name.Builtin
'('          Punctuation
'r'          Name
')'          Punctuation
'-'          Operator
'1'          Literal.Number.Integer
');'         Punctuation
'\n          ' Text.Whitespace
'if'         Keyword
' '          Text.Whitespace
'cond0'
      Name
' '          Text.Whitespace
'<>'         Operator
' '          Text.Whitespace
'FAIL'       Name
' '          Text.Whitespace
'then'       Keyword
'\n            ' Text.Whitespace
'x0'         Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'rhs'        Name.Builtin
'('          Punctuation
'r'          Name
');'         Punctuation
```

```
' '          Text.Whitespace
'r0'         Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'applyop'    Name
'('          Punctuation
'`-`'        Name
','          Operator
' '          Text.Whitespace
'2'          Literal.Number.Integer
','          Operator
' '          Text.Whitespace
'r'          Name
','          Operator
' '          Text.Whitespace
'1'          Literal.Number.Integer
');'         Punctuation
'\n          ' Text.Whitespace
'else'       Keyword
' '          Text.Whitespace
'next'       Keyword
' '
          Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'if'         Keyword
';'          Punctuation
'\n       '  Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'if'         Keyword
';'          Punctuation
'\n     '    Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'if'         Keyword
';'          Punctuation
'\n     '    Text.Whitespace
'here'       Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'subs'       Name.Builtin
'('          Punctuation
'cond'       Name
' '          Text.Whitespace
'='          Operator
```

```
'          ' Text.Whitespace
'cond0'      Name
' '          Text.Whitespace
','          Operator
' '          Text.Whitespace
'body'       Name
');'         Punctuation
'\n     '    Text.Whitespace
'rest'       Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'subs'       Name.Builtin
'('          Punctuation
'cond'
       Name
' '          Text.Whitespace
'='          Operator
' '          Text.Whitespace
'evalb'      Name.Builtin
'('          Punctuation
'not'        Keyword
' '          Text.Whitespace
'cond0'      Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'body'       Name
');'         Punctuation
'\n     '    Text.Whitespace
'return'     Keyword
' '          Text.Whitespace
'make'       Name
'('          Punctuation
'eval'       Name.Builtin
'('          Punctuation
'here'       Name
','          Operator
' '          Text.Whitespace
'x'          Name
'='          Operator
'x0'         Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'do_peel'    Name
'('          Punctuation
'eval'       Name.Builtin
```

```
'('          Punctuation
'subsop'     Name.Builtin
'('          Punctuation
'1'          Literal.Number.Integer
'='          Operator
'rest'       Name
','          Operator
'
 '           Text.Whitespace
'['          Punctuation
'2'          Literal.Number.Integer
','          Operator
'2'          Literal.Number.Integer
']'          Punctuation
'='          Operator
'r0'         Name
','          Operator
' '          Text.Whitespace
'e'          Name
'))));'      Punctuation
'\n    '     Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'do'         Keyword
';'          Punctuation
'\n    '     Text.Whitespace
'return'     Keyword
' '          Text.Whitespace
'e'          Name
';'          Punctuation
'\n  '       Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'proc'       Keyword
';'          Punctuation
'\n\n  '     Text.Whitespace
'# Expand sum(a*(b-c),q) to sum(a*b,q)-sum(a*c,q)\n' Comment.Single

'  '         Text.Whitespace
'split'      Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'proc'       Keyword
'('          Punctuation
'e'
 Name
','          Operator
```

```
' '          Text.Whitespace
'$'          Operator
')'          Punctuation
'\n    '     Text.Whitespace
'subsindets'  Name.Builtin
'('          Punctuation
'e'          Name
','          Operator
' '          Text.Whitespace
'"'          Punctuation
'And'        Name
'('          Punctuation
'specfunc'   Name
'({'         Punctuation
'sum'        Name
','          Operator
'Sum'        Name
'})'         Punctuation
','          Operator
'\n                    ' Text.Whitespace
'anyfunc'    Name
'('          Punctuation
'And'        Name
'('          Punctuation
'`*`'        Name
','          Operator
'Not'        Name
'('          Punctuation
'`*`'        Name
'('          Punctuation
'Not'        Name
'('          Punctuation
'`+`'        Name
'))))'       Punctuation
','          Operator
'name'       Name
'='          Operator
'anything'   Name
'))'         Punctuation
'"'          Punctuation
','          Operator
'\n
                 ' Text.Whitespace
'do_split'   Name
');'         Punctuation
'\n  '       Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
```

```
'proc'        Keyword
';'           Punctuation
'\n  '        Text.Whitespace
'do_split'    Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'proc'        Keyword
'('           Punctuation
'e'           Name
','           Operator
' '           Text.Whitespace
'$'           Operator
')'           Punctuation
'\n    '      Text.Whitespace
'local'       Keyword
' '           Text.Whitespace
'terms'       Name
','           Operator
' '           Text.Whitespace
'x'           Name
';'           Punctuation
'\n    '      Text.Whitespace
'terms'       Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'convert'     Name.Builtin
'('           Punctuation
'expand'      Name.Builtin
'('           Punctuation
'op'          Name.Builtin
'('           Punctuation
'1'
          Literal.Number.Integer
','           Operator
'e'           Name
')'           Punctuation
','           Operator
' '           Text.Whitespace
'op'          Name.Builtin
'('           Punctuation
'indets'      Name.Builtin
'('           Punctuation
'op'          Name.Builtin
'('           Punctuation
'1'           Literal.Number.Integer
','           Operator
```

```
'e'          Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'function'   Name
')))'        Punctuation
','          Operator
'\n                  ' Text.Whitespace
'"'          Punctuation
'list'       Name
'"'          Punctuation
','          Operator
' '          Text.Whitespace
'`+`'        Name
');'         Punctuation
'\n    '     Text.Whitespace
'x'          Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'op'         Name.Builtin
'(['         Punctuation
'2'          Literal.Number.Integer
','          Operator
'1'
          Literal.Number.Integer
']'          Punctuation
','          Operator
'e'          Name
');'         Punctuation
'\n    '     Text.Whitespace
'`+`'        Name
'('          Punctuation
'op'         Name.Builtin
'('          Punctuation
'map'        Name.Builtin
'('          Punctuation
'proc'       Keyword
'('          Punctuation
'term'       Name
','          Operator
' '          Text.Whitespace
'$'          Operator
')'          Punctuation
'\n     '    Text.Whitespace
'local'      Keyword
' '          Text.Whitespace
's'          Name
```

```
','         Operator
' '         Text.Whitespace
'r'         Name
';'         Punctuation
'\n     '   Text.Whitespace
's'         Name
','         Operator
' '         Text.Whitespace
'r'         Name
' '         Text.Whitespace
':='        Operator
' '         Text.Whitespace
'selectremove' Name.Builtin
'('         Punctuation
'depends'   Name
','         Operator
' '
  Text.Whitespace
'convert'   Name.Builtin
'('         Punctuation
'term'      Name
','         Operator
' '         Text.Whitespace
'"'         Punctuation
'list'      Name
'"'         Punctuation
','         Operator
' '         Text.Whitespace
'`*`'       Name
')'         Punctuation
','         Operator
' '         Text.Whitespace
'x'         Name
');'        Punctuation
'\n     '   Text.Whitespace
'`*`'       Name
'('         Punctuation
'op'        Name.Builtin
'('         Punctuation
'r'         Name
')'         Punctuation
','         Operator
' '         Text.Whitespace
'subsop'    Name.Builtin
'('         Punctuation
'1'         Literal.Number.Integer
'='         Operator
'`*`'       Name
```

```
'('          Punctuation
'op'         Name.Builtin
'('          Punctuation
's'          Name
'))'         Punctuation
','          Operator
'e'          Name
'))'         Punctuation
'\n    '     Text.Whitespace
'end'
    Keyword
' '          Text.Whitespace
'proc'       Keyword
','          Operator
' '          Text.Whitespace
'terms'      Name
')))'        Punctuation
'\n  '       Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'proc'       Keyword
';'          Punctuation
'\n\n  '     Text.Whitespace
'# Simplify f(lo-1)*product(f(i),i=lo..hi) to product(f(i),i=lo-1..hi)\n' Comment.Single

'  '         Text.Whitespace
'graft'      Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'proc'       Keyword
'('          Punctuation
'e'          Name
','          Operator
' '          Text.Whitespace
'$'          Operator
')'          Punctuation
'\n    '     Text.Whitespace
'subsindets'  Name.Builtin
'('          Punctuation
'e'          Name
','          Operator
' '          Text.Whitespace
'"'          Punctuation
'Or'         Name
'('          Punctuation
'And'        Name
'('          Punctuation
```

```
'`*`'        Name
','
          Operator
'Not'        Name
'('          Punctuation
'`*`'        Name
'('          Punctuation
'Not'        Name
'('          Punctuation
'specfunc'    Name
'({'         Punctuation
'product'     Name
','          Operator
'Product'     Name
'}))))'      Punctuation
','          Operator
'\n                    ' Text.Whitespace
'And'        Name
'('          Punctuation
'`+`'        Name
','          Operator
'Not'        Name
'('          Punctuation
'`+`'        Name
'('          Punctuation
'Not'        Name
'('          Punctuation
'specfunc'    Name
'({'         Punctuation
'sum'        Name
'    '       Text.Whitespace
','          Operator
'Sum'        Name
'    '       Text.Whitespace
'})))))'     Punctuation
"""          Punctuation
','          Operator
'\n                  ' Text.Whitespace
'do_graft'    Name
');'         Punctuation
'\n  '       Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'proc'
  Keyword
';'          Punctuation
'\n  '       Text.Whitespace
'do_graft'    Name
```

```
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'proc'       Keyword
'('          Punctuation
'e'          Name
','          Operator
' '          Text.Whitespace
'$'          Operator
')'          Punctuation
'\n    '     Text.Whitespace
'local'      Keyword
' '          Text.Whitespace
'produce'    Name
','          Operator
' '          Text.Whitespace
'factors'    Name
','          Operator
' '          Text.Whitespace
'i'          Name
','          Operator
' '          Text.Whitespace
'j'          Name
';'          Punctuation
'\n    '     Text.Whitespace
'produce'    Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'`if`'       Name
'('          Punctuation
'e'          Name
'::'         Operator
'`*`'        Name
','          Operator
' '          Text.Whitespace
'"'          Punctuation
'{'
          Punctuation
'product'    Name
','          Operator
'Product'    Name
'}'          Punctuation
'"'          Punctuation
','          Operator
'\n                        ' Text.Whitespace
'"'          Punctuation
'{'          Punctuation
```

```
'sum'         Name
'    '        Text.Whitespace
','           Operator
'Sum'         Name
'    '        Text.Whitespace
'}'           Punctuation
"""           Punctuation
');'          Punctuation
'\n    '      Text.Whitespace
'factors'     Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'sort'        Name.Builtin
'('           Punctuation
'convert'     Name.Builtin
'('           Punctuation
'e'           Name
','           Operator
"""           Punctuation
'list'        Name
"""           Punctuation
')'           Punctuation
','           Operator
'\n                    ' Text.Whitespace
'key'         Name
' '           Text.Whitespace
'='           Operator
' '           Text.Whitespace
'('
          Punctuation
'factor'      Name
' '           Text.Whitespace
'->'          Operator
' '           Text.Whitespace
'-'           Operator
'numboccur'   Name.Builtin
'('           Punctuation
'factor'      Name
','           Operator
'produce'     Name
')));'        Punctuation
'\n    '      Text.Whitespace
'for'         Keyword
' '           Text.Whitespace
'i'           Name
' '           Text.Whitespace
'from'        Keyword
```

```
' '          Text.Whitespace
'nops'       Name.Builtin
'('          Punctuation
'factors'    Name
')'          Punctuation
' '          Text.Whitespace
'to'         Keyword
' '          Text.Whitespace
'2'          Literal.Number.Integer
' '          Text.Whitespace
'by'         Keyword
' '          Text.Whitespace
'-'          Operator
'1'          Literal.Number.Integer
' '          Text.Whitespace
'do'         Keyword
'\n    '     Text.Whitespace
'for'        Keyword
' '          Text.Whitespace
'j'          Name
' '
  Text.Whitespace
'from'       Keyword
' '          Text.Whitespace
'i'          Name
'-'          Operator
'1'          Literal.Number.Integer
' '          Text.Whitespace
'to'         Keyword
' '          Text.Whitespace
'1'          Literal.Number.Integer
' '          Text.Whitespace
'by'         Keyword
' '          Text.Whitespace
'-'          Operator
'1'          Literal.Number.Integer
' '          Text.Whitespace
'do'         Keyword
'\n        '  Text.Whitespace
'if'         Keyword
' '          Text.Whitespace
'op'         Name.Builtin
'('          Punctuation
'j'          Name
','          Operator
'factors'    Name
')'          Punctuation
' '          Text.Whitespace
```

```
'::'        Operator
' '         Text.Whitespace
'"'         Punctuation
'And'       Name
'"'         Punctuation
'('         Punctuation
'"'         Punctuation
'specfunc'  Name
'"'         Punctuation
'('         Punctuation
'produce'   Name
')'         Punctuation
','
        Operator
'\n                         ' Text.Whitespace
'"'         Punctuation
'anyfunc'   Name
'('         Punctuation
'anything'  Name
','         Operator
'name'      Name
'='         Operator
'range'     Name
')'         Punctuation
'"'         Punctuation
')'         Punctuation
' '         Text.Whitespace
'then'      Keyword
'\n         ' Text.Whitespace
'if'        Keyword
' '         Text.Whitespace
'Testzero'  Name
'('         Punctuation
'op'        Name.Builtin
'('         Punctuation
'i'         Name
','         Operator
'factors'   Name
')'         Punctuation
' '         Text.Whitespace
'-'         Operator
' '         Text.Whitespace
'eval'      Name.Builtin
'('         Punctuation
'op'        Name.Builtin
'(['        Punctuation
'j'         Name
','         Operator
```

'1' Literal.Number.Integer
']' Punctuation
',' Operator
'factors' Name
')'
Punctuation
',' Operator
'\n ' Text.Whitespace
'op' Name.Builtin
'([' Punctuation
'j' Name
',' Operator
'2' Literal.Number.Integer
',' Operator
'1' Literal.Number.Integer
']' Punctuation
',' Operator
'factors' Name
')' Punctuation
'=' Operator
'op' Name.Builtin
'([' Punctuation
'j' Name
',' Operator
'2' Literal.Number.Integer
',' Operator
'2' Literal.Number.Integer
',' Operator
'1' Literal.Number.Integer
']' Punctuation
',' Operator
'factors' Name
')' Punctuation
'-' Operator
'1' Literal.Number.Integer
'))' Punctuation
' ' Text.Whitespace
'then' Keyword
'\n ' Text.Whitespace
'factors' Name
' ' Text.Whitespace
':=' Operator
' ' Text.Whitespace
'subsop'
Name.Builtin
'(' Punctuation
'i' Name
'=' Operator

```
'NULL'        Name
','           Operator
'applyop'     Name
'('           Punctuation
'`-`'         Name
','           Operator
'['           Punctuation
'j'           Name
','           Operator
'2'           Literal.Number.Integer
','           Operator
'2'           Literal.Number.Integer
','           Operator
'1'           Literal.Number.Integer
']'           Punctuation
','           Operator
'factors'     Name
','           Operator
'1'           Literal.Number.Integer
'));'         Punctuation
'\n           ' Text.Whitespace
'break'       Keyword
'\n           ' Text.Whitespace
'elif'        Keyword
' '           Text.Whitespace
'Testzero'    Name
'('           Punctuation
'op'          Name.Builtin
'('           Punctuation
'i'           Name
','           Operator
'factors'     Name
')'           Punctuation
' '           Text.Whitespace
'-'           Operator
' '           Text.Whitespace
'eval'
        Name.Builtin
'('           Punctuation
'op'          Name.Builtin
'(['          Punctuation
'j'           Name
','           Operator
'1'           Literal.Number.Integer
']'           Punctuation
','           Operator
'factors'     Name
')'           Punctuation
```

```
','          Operator
'\n                ' Text.Whitespace
'op'          Name.Builtin
'(['          Punctuation
'j'           Name
','           Operator
'2'           Literal.Number.Integer
','           Operator
'1'           Literal.Number.Integer
']'           Punctuation
','           Operator
'factors'     Name
')'           Punctuation
'='           Operator
'op'          Name.Builtin
'(['          Punctuation
'j'           Name
','           Operator
'2'           Literal.Number.Integer
','           Operator
'2'           Literal.Number.Integer
','           Operator
'2'           Literal.Number.Integer
']'           Punctuation
','           Operator
'factors'     Name
')'           Punctuation
'+'
           Operator
'1'           Literal.Number.Integer
'))'          Punctuation
' '           Text.Whitespace
'then'        Keyword
'\n            ' Text.Whitespace
'factors'     Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'subsop'      Name.Builtin
'('           Punctuation
'i'           Name
'='           Operator
'NULL'        Name
','           Operator
'applyop'     Name
'('           Punctuation
'`+`'         Name
','           Operator
```

```
'['         Punctuation
'j'         Name
','         Operator
'2'         Literal.Number.Integer
','         Operator
'2'         Literal.Number.Integer
','         Operator
'2'         Literal.Number.Integer
']'         Punctuation
','         Operator
'factors'   Name
','         Operator
'1'         Literal.Number.Integer
'));'       Punctuation
'\n         ' Text.Whitespace
'break'     Keyword
'\n         ' Text.Whitespace
'end'       Keyword
' '
      Text.Whitespace
'if'        Keyword
'\n         '  Text.Whitespace
'end'       Keyword
' '         Text.Whitespace
'if'        Keyword
'\n     '   Text.Whitespace
'end'       Keyword
' '         Text.Whitespace
'do'        Keyword
'\n     '   Text.Whitespace
'end'       Keyword
' '         Text.Whitespace
'do'        Keyword
';'         Punctuation
'\n     '   Text.Whitespace
'op'        Name.Builtin
'('         Punctuation
'0'         Literal.Number.Integer
','         Operator
'e'         Name
')('        Punctuation
'op'        Name.Builtin
'('         Punctuation
'factors'   Name
'))'        Punctuation
'\n  '      Text.Whitespace
'end'       Keyword
' '         Text.Whitespace
```

```
'proc'        Keyword
';'           Punctuation
'\n\n  '      Text.Whitespace
'# Normalize sum(f(i),i=2..hi) to sum(f(i+2),i=0..hi-2)\n' Comment.Single

'  '          Text.Whitespace
'rebase_lower' Name
' '           Text.Whitespace
':='          Operator
'
 '            Text.Whitespace
'proc'        Keyword
'('           Punctuation
'e'           Name
','           Operator
' '           Text.Whitespace
'$'           Operator
')'           Punctuation
'\n    '      Text.Whitespace
'subsindets'  Name.Builtin
'('           Punctuation
'e'           Name
','           Operator
' '           Text.Whitespace
"""           Punctuation
'And'         Name
'('           Punctuation
'specfunc'    Name
'({'          Punctuation
'sum'         Name
','           Operator
'Sum'         Name
','           Operator
'product'     Name
','           Operator
'Product'     Name
'})'          Punctuation
','           Operator
'\n                    ' Text.Whitespace
'anyfunc'     Name
'('           Punctuation
'anything'    Name
','           Operator
'\n                      ' Text.Whitespace
'name'        Name
'='           Operator
'Not'         Name
'({'          Punctuation
```

'0' Literal.Number.Integer
',' Operator
'SymbolicInfinity'
Name
',' Operator
'undefined' Name
'})' Punctuation
'..' Operator
'anything' Name
'))' Punctuation
'"' Punctuation
',' Operator
'\n ' Text.Whitespace
'do_rebase_lower' Name
');' Punctuation
'\n ' Text.Whitespace
'end' Keyword
' ' Text.Whitespace
'proc' Keyword
';' Punctuation
'\n ' Text.Whitespace
'do_rebase_lower' Name
' ' Text.Whitespace
':=' Operator
' ' Text.Whitespace
'proc' Keyword
'(' Punctuation
'e' Name
',' Operator
' ' Text.Whitespace
'$' Operator
')' Punctuation
'\n ' Text.Whitespace
'subsop' Name.Builtin
'([' Punctuation
'2' Literal.Number.Integer
',' Operator
'2' Literal.Number.Integer
',' Operator
'1' Literal.Number.Integer
']' Punctuation
'='
Operator
'0' Literal.Number.Integer
',' Operator
'\n ' Text.Whitespace
'applyop' Name
'(' Punctuation

```
'`-`'        Name
','          Operator
'\n                ' Text.Whitespace
'['          Punctuation
'2'          Literal.Number.Integer
','          Operator
'2'          Literal.Number.Integer
','          Operator
'2'          Literal.Number.Integer
']'          Punctuation
','          Operator
'\n                ' Text.Whitespace
'applyop'    Name
'('          Punctuation
'eval'       Name.Builtin
','          Operator
' '          Text.Whitespace
'1'          Literal.Number.Integer
','          Operator
' '          Text.Whitespace
'e'          Name
','          Operator
' '          Text.Whitespace
'op'         Name.Builtin
'(['         Punctuation
'2'          Literal.Number.Integer
','          Operator
'1'          Literal.Number.Integer
']'          Punctuation
','          Operator
'e'
      Name
')'          Punctuation
'='          Operator
'op'         Name.Builtin
'(['         Punctuation
'2'          Literal.Number.Integer
','          Operator
'1'          Literal.Number.Integer
']'          Punctuation
','          Operator
'e'          Name
')'          Punctuation
'+'          Operator
'op'         Name.Builtin
'(['         Punctuation
'2'          Literal.Number.Integer
','          Operator
```

```
'2'          Literal.Number.Integer
','          Operator
'1'          Literal.Number.Integer
']'          Punctuation
','          Operator
'e'          Name
'))'         Punctuation
','          Operator
'\n                ' Text.Whitespace
'op'         Name.Builtin
'(['         Punctuation
'2'          Literal.Number.Integer
','          Operator
'2'          Literal.Number.Integer
','          Operator
'1'          Literal.Number.Integer
']'          Punctuation
','          Operator
'e'          Name
')))'        Punctuation
'\n
  '       Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'proc'       Keyword
';'          Punctuation
'\n\n  '     Text.Whitespace
'# Normalize sum(f(i),i=lo..2) to sum(f(i+2),i=lo-2..0)\n' Comment.Single

'  '         Text.Whitespace
'rebase_upper' Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'proc'       Keyword
'('          Punctuation
'e'          Name
','          Operator
' '          Text.Whitespace
'$'          Operator
')'          Punctuation
'\n    '     Text.Whitespace
'subsindets'  Name.Builtin
'('          Punctuation
'e'          Name
','          Operator
' '          Text.Whitespace
'"'          Punctuation
```

```
'And'         Name
'('           Punctuation
'specfunc'    Name
'({'          Punctuation
'sum'         Name
','           Operator
'Sum'         Name
','           Operator
'product'     Name
','           Operator
'Product'     Name
'})'          Punctuation
','           Operator
'\n
                    ' Text.Whitespace
'anyfunc'     Name
'('           Punctuation
'anything'    Name
','           Operator
'\n                    ' Text.Whitespace
'name'        Name
'='           Operator
'anything'    Name
'..'          Operator
'Not'         Name
'({'          Punctuation
'0'           Literal.Number.Integer
','           Operator
'SymbolicInfinity' Name
','           Operator
'undefined'   Name
'})))'        Punctuation
'"'           Punctuation
','           Operator
'\n                ' Text.Whitespace
'do_rebase_upper' Name
');'          Punctuation
'\n  '        Text.Whitespace
'end'         Keyword
' '           Text.Whitespace
'proc'        Keyword
';'           Punctuation
'\n  '        Text.Whitespace
'do_rebase_upper' Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'proc'        Keyword
```

```
'('          Punctuation
'e'          Name
','          Operator
' '          Text.Whitespace
'$'          Operator
')'
          Punctuation
'\n    '      Text.Whitespace
'subsop'      Name.Builtin
'(['         Punctuation
'2'          Literal.Number.Integer
','          Operator
'2'          Literal.Number.Integer
','          Operator
'2'          Literal.Number.Integer
']'          Punctuation
'='          Operator
'0'          Literal.Number.Integer
','          Operator
'\n          ' Text.Whitespace
'applyop'     Name
'('          Punctuation
'`-`'        Name
','          Operator
'\n                  ' Text.Whitespace
'['          Punctuation
'2'          Literal.Number.Integer
','          Operator
'2'          Literal.Number.Integer
','          Operator
'1'          Literal.Number.Integer
']'          Punctuation
','          Operator
'\n                  ' Text.Whitespace
'applyop'     Name
'('          Punctuation
'eval'        Name.Builtin
','          Operator
' '          Text.Whitespace
'1'          Literal.Number.Integer
','          Operator
' '
          Text.Whitespace
'e'          Name
','          Operator
' '          Text.Whitespace
'op'          Name.Builtin
'(['         Punctuation
```

```
'2'          Literal.Number.Integer
','          Operator
'1'          Literal.Number.Integer
']'          Punctuation
','          Operator
'e'          Name
')'          Punctuation
'='          Operator
'op'         Name.Builtin
'(['         Punctuation
'2'          Literal.Number.Integer
','          Operator
'1'          Literal.Number.Integer
']'          Punctuation
','          Operator
'e'          Name
')'          Punctuation
'+'          Operator
'op'         Name.Builtin
'(['         Punctuation
'2'          Literal.Number.Integer
','          Operator
'2'          Literal.Number.Integer
','          Operator
'2'          Literal.Number.Integer
']'          Punctuation
','          Operator
'e'          Name
'))'         Punctuation
','          Operator
'\n                ' Text.Whitespace
'op'
         Name.Builtin
'(['         Punctuation
'2'          Literal.Number.Integer
','          Operator
'2'          Literal.Number.Integer
','          Operator
'2'          Literal.Number.Integer
']'          Punctuation
','          Operator
'e'          Name
')))'        Punctuation
'\n  '       Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'proc'       Keyword
';'          Punctuation
```

```
'\n\n  '      Text.Whitespace
'ModuleLoad'  Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'proc'        Keyword
'($)'         Punctuation
'\n    '      Text.Whitespace
'# Override csgn to work a little bit harder on piecewise and sum\n' Comment.Single

'    '        Text.Whitespace
'# (to get rid of csgn(1/2+1/2*sum(piecewise(...,1,0),...))\n' Comment.Single

'    '        Text.Whitespace
'#  produced by int on a Gaussian mixture model)\n' Comment.Single

'    '        Text.Whitespace
'unprotect'   Name
'('           Punctuation
'csgn'
        Name
');'          Punctuation
'\n    '      Text.Whitespace
'csgn'        Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'overload'    Name
'(['          Punctuation
'\n      '    Text.Whitespace
"# Handle if the csgn of a piecewise doesn't depend on which branch\n" Comment.Single

'      '      Text.Whitespace
'proc'        Keyword
'('           Punctuation
'a'           Name
' '           Text.Whitespace
'::'          Operator
' '           Text.Whitespace
'specfunc'    Name
'('           Punctuation
'piecewise'   Name.Builtin
')'           Punctuation
','           Operator
' '           Text.Whitespace
'$'           Operator
')'           Punctuation
'\n        '  Text.Whitespace
```

```
'option'      Keyword
' '           Text.Whitespace
'overload'    Name
';'           Punctuation
'\n        '  Text.Whitespace
'local'       Keyword
' '           Text.Whitespace
'r'           Name
','           Operator
' '           Text.Whitespace
'i'
           Name
';'           Punctuation
'\n        '  Text.Whitespace
'r'           Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'{'           Punctuation
'seq'         Name.Builtin
'('           Punctuation
'`if`'        Name
'('           Punctuation
'i'           Name
'::'          Operator
'even'        Name
' '           Text.Whitespace
'or'          Keyword
' '           Text.Whitespace
'i'           Name
'='           Operator
'nops'        Name.Builtin
'('           Punctuation
'a'           Name
')'           Punctuation
','           Operator
' '           Text.Whitespace
'csgn'        Name
'('           Punctuation
'op'          Name.Builtin
'('           Punctuation
'i'           Name
','           Operator
'a'           Name
'))'          Punctuation
','           Operator
' '           Text.Whitespace
'NULL'        Name
```

```
')'          Punctuation
','          Operator
'\n                ' Text.Whitespace
'i'
     Name
'='          Operator
'1'          Literal.Number.Integer
'..'         Punctuation
'nops'       Name.Builtin
'('          Punctuation
'a'          Name
'))};'       Punctuation
'\n       '  Text.Whitespace
'if'         Keyword
' '          Text.Whitespace
'nops'       Name.Builtin
'('          Punctuation
'r'          Name
')'          Punctuation
'='          Operator
'1'          Literal.Number.Integer
' '          Text.Whitespace
'then'       Keyword
' '          Text.Whitespace
'return'     Keyword
' '          Text.Whitespace
'op'         Name.Builtin
'('          Punctuation
'r'          Name
')'          Punctuation
' '          Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'if'         Keyword
';'          Punctuation
'\n       '  Text.Whitespace
'if'         Keyword
' '          Text.Whitespace
'not'        Keyword
' '          Text.Whitespace
'assigned'   Name.Builtin
'(_'         Punctuation
'Envsignum0'  Name
')'
         Punctuation
' '          Text.Whitespace
'then'       Keyword
'\n         ' Text.Whitespace
```

```
'r'          Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'r'          Name
' '          Text.Whitespace
'minus'      Keyword
' '          Text.Whitespace
'{'          Punctuation
'0'          Literal.Number.Integer
'};'         Punctuation
'\n          ' Text.Whitespace
'if'         Keyword
' '          Text.Whitespace
'nops'       Name.Builtin
'('          Punctuation
'r'          Name
')'          Punctuation
'='          Operator
'1'          Literal.Number.Integer
' '          Text.Whitespace
'then'       Keyword
' '          Text.Whitespace
'return'     Keyword
' '          Text.Whitespace
'op'         Name.Builtin
'('          Punctuation
'r'          Name
')'          Punctuation
' '          Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'if'         Keyword
';'          Punctuation
'\n
        '  Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'if'         Keyword
';'          Punctuation
'\n        '  Text.Whitespace
'error'      Keyword
' '          Text.Whitespace
'"invalid input: cannot csgn %1"' Literal.String
','          Operator
' '          Text.Whitespace
'a'          Name
';'          Punctuation
```

'\n ' Text.Whitespace
'end' Keyword
' ' Text.Whitespace
'proc' Keyword
',' Operator
'\n ' Text.Whitespace
"# Handle if the csgn of a sum doesn't depend on the bound variable\n" Comment.Single

' ' Text.Whitespace
'proc' Keyword
'(' Punctuation
'a' Name
' ' Text.Whitespace
'::' Operator
' ' Text.Whitespace
'And' Name
'(' Punctuation
'specfunc' Name
'({' Punctuation
'sum' Name
',' Operator
' ' Text.Whitespace
'Sum' Name
'})' Punctuation
','
Operator
' ' Text.Whitespace
'anyfunc' Name
'(' Punctuation
'anything' Name
',' Operator
' ' Text.Whitespace
'name' Name
'=' Operator
'range' Name
'))' Punctuation
',' Operator
' ' Text.Whitespace
'$' Operator
')' Punctuation
'\n ' Text.Whitespace
'option' Keyword
' ' Text.Whitespace
'overload' Name
';' Punctuation
'\n ' Text.Whitespace
'local' Keyword
' ' Text.Whitespace

```
'r'          Name
';'          Punctuation
'\n        '  Text.Whitespace
'r'          Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'csgn'       Name
'('          Punctuation
'op'         Name.Builtin
'('          Punctuation
'1'          Literal.Number.Integer
','          Operator
'a'          Name
'));'        Punctuation
'\n        '  Text.Whitespace
'if'         Keyword
' '
          Text.Whitespace
'not'        Keyword
' '          Text.Whitespace
'depends'    Name
'('          Punctuation
'r'          Name
','          Operator
'op'         Name.Builtin
'(['         Punctuation
'2'          Literal.Number.Integer
','          Operator
'1'          Literal.Number.Integer
']'          Punctuation
','          Operator
'a'          Name
'))'         Punctuation
' '          Text.Whitespace
'then'       Keyword
'\n         ' Text.Whitespace
'return'     Keyword
' '          Text.Whitespace
'signum'     Name
'('          Punctuation
'op'         Name.Builtin
'(['         Punctuation
'2'          Literal.Number.Integer
','          Operator
'2'          Literal.Number.Integer
','          Operator
'2'          Literal.Number.Integer
```

```
']'         Punctuation
','         Operator
'a'         Name
')'         Punctuation
'+'         Operator
'1'         Literal.Number.Integer
'-'         Operator
'op'        Name.Builtin
'(['
        Punctuation
'2'         Literal.Number.Integer
','         Operator
'2'         Literal.Number.Integer
','         Operator
'1'         Literal.Number.Integer
']'         Punctuation
','         Operator
'a'         Name
'))'        Punctuation
' '         Text.Whitespace
'*'         Operator
' '         Text.Whitespace
'r'         Name
'\n      '  Text.Whitespace
'end'       Keyword
' '         Text.Whitespace
'if'        Keyword
';'         Punctuation
'\n      '  Text.Whitespace
'error'     Keyword
' '         Text.Whitespace
'"invalid input: cannot csgn %1"' Literal.String
','         Operator
' '         Text.Whitespace
'a'         Name
';'         Punctuation
'\n    '    Text.Whitespace
'end'       Keyword
' '         Text.Whitespace
'proc'      Keyword
','         Operator
'\n    '    Text.Whitespace
'csgn'      Name
']);'       Punctuation
'\n   '     Text.Whitespace
'protect'   Name
'('
```

Punctuation
'csgn' Name
');' Punctuation
'\n\n ' Text.Whitespace
'# Do the same to signum.\n' Comment.Single

' ' Text.Whitespace
'unprotect' Name
'(' Punctuation
'signum' Name
');' Punctuation
'\n ' Text.Whitespace
'signum' Name
' ' Text.Whitespace
':=' Operator
' ' Text.Whitespace
'overload' Name
'([' Punctuation
'\n ' Text.Whitespace
"# Handle if the signum of a piecewise doesn't depend on which branch\n" Comment.Single

' ' Text.Whitespace
'proc' Keyword
'(' Punctuation
'a' Name
' ' Text.Whitespace
'::' Operator
' ' Text.Whitespace
'specfunc' Name
'(' Punctuation
'piecewise' Name.Builtin
')' Punctuation
',' Operator
' ' Text.Whitespace
'$' Operator
')' Punctuation
'\n ' Text.Whitespace
'option' Keyword
' '
Text.Whitespace
'overload' Name
';' Punctuation
'\n ' Text.Whitespace
'local' Keyword
' ' Text.Whitespace
'r' Name
',' Operator
' ' Text.Whitespace

```
'i'          Name
';'          Punctuation
'\n        '  Text.Whitespace
'r'          Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'{'          Punctuation
'seq'        Name.Builtin
'('          Punctuation
'`if`'       Name
'('          Punctuation
'i'          Name
'::'         Operator
'even'       Name
' '          Text.Whitespace
'or'         Keyword
' '          Text.Whitespace
'i'          Name
'='          Operator
'nops'       Name.Builtin
'('          Punctuation
'a'          Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'signum'     Name
'('          Punctuation
'op'         Name.Builtin
'('          Punctuation
'i'          Name
','          Operator
'a'
      Name
'))'         Punctuation
','          Operator
' '          Text.Whitespace
'NULL'       Name
')'          Punctuation
','          Operator
'\n                ' Text.Whitespace
'i'          Name
'='          Operator
'1'          Literal.Number.Integer
'..'         Punctuation
'nops'       Name.Builtin
'('          Punctuation
'a'          Name
```

```
'))};'        Punctuation
'\n        '  Text.Whitespace
'if'          Keyword
' '           Text.Whitespace
'nops'        Name.Builtin
'('           Punctuation
'r'           Name
')'           Punctuation
'='           Operator
'1'           Literal.Number.Integer
' '           Text.Whitespace
'then'        Keyword
' '           Text.Whitespace
'return'      Keyword
' '           Text.Whitespace
'op'          Name.Builtin
'('           Punctuation
'r'           Name
')'           Punctuation
' '           Text.Whitespace
'end'         Keyword
' '           Text.Whitespace
'if'          Keyword
';'           Punctuation
'\n
        '  Text.Whitespace
'if'          Keyword
' '           Text.Whitespace
'not'         Keyword
' '           Text.Whitespace
'assigned'    Name.Builtin
'(_'          Punctuation
'Envsignum0'  Name
')'           Punctuation
' '           Text.Whitespace
'then'        Keyword
'\n          ' Text.Whitespace
'r'           Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'r'           Name
' '           Text.Whitespace
'minus'       Keyword
' '           Text.Whitespace
'{'           Punctuation
'0'           Literal.Number.Integer
'};'          Punctuation
```

```
'\n          ' Text.Whitespace
'if'         Keyword
' '          Text.Whitespace
'nops'       Name.Builtin
'('          Punctuation
'r'          Name
')'          Punctuation
'='          Operator
'1'          Literal.Number.Integer
' '          Text.Whitespace
'then'       Keyword
' '          Text.Whitespace
'return'     Keyword
' '          Text.Whitespace
'op'         Name.Builtin
'('
          Punctuation
'r'          Name
')'          Punctuation
' '          Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'if'         Keyword
';'          Punctuation
'\n       '  Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'if'         Keyword
';'          Punctuation
'\n       '  Text.Whitespace
'error'      Keyword
' '          Text.Whitespace
'"invalid input: cannot signum %1"' Literal.String
','          Operator
' '          Text.Whitespace
'a'          Name
';'          Punctuation
'\n     '    Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'proc'       Keyword
','          Operator
'\n     '    Text.Whitespace
"# Handle if the signum of a sum doesn't depend on the bound variable\n" Comment.Single

'     '      Text.Whitespace
'proc'       Keyword
'('          Punctuation
```

```
'a'          Name
' '          Text.Whitespace
'::'         Operator
' '          Text.Whitespace
'And'
        Name
'('          Punctuation
'specfunc'   Name
'({'         Punctuation
'sum'        Name
','          Operator
' '          Text.Whitespace
'Sum'        Name
'})'         Punctuation
','          Operator
' '          Text.Whitespace
'anyfunc'    Name
'('          Punctuation
'anything'   Name
','          Operator
' '          Text.Whitespace
'name'       Name
'='          Operator
'range'      Name
'))'         Punctuation
','          Operator
' '          Text.Whitespace
'$'          Operator
')'          Punctuation
'\n       '  Text.Whitespace
'option'     Keyword
' '          Text.Whitespace
'overload'   Name
';'          Punctuation
'\n       '  Text.Whitespace
'local'      Keyword
' '          Text.Whitespace
'r'          Name
';'          Punctuation
'\n       '  Text.Whitespace
'r'          Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'signum'     Name
'('          Punctuation
'op'
```

```
        Name.Builtin
'('         Punctuation
'1'         Literal.Number.Integer
','         Operator
'a'         Name
'));'       Punctuation
'\n       '  Text.Whitespace
'if'        Keyword
' '         Text.Whitespace
'not'       Keyword
' '         Text.Whitespace
'depends'   Name
'('         Punctuation
'r'         Name
','         Operator
'op'        Name.Builtin
'(['        Punctuation
'2'         Literal.Number.Integer
','         Operator
'1'         Literal.Number.Integer
']'         Punctuation
','         Operator
'a'         Name
'))'        Punctuation
' '         Text.Whitespace
'then'      Keyword
'\n         ' Text.Whitespace
'return'    Keyword
' '         Text.Whitespace
'signum'    Name
'('         Punctuation
'op'        Name.Builtin
'(['        Punctuation
'2'         Literal.Number.Integer
','         Operator
'2'         Literal.Number.Integer
','         Operator
'2'         Literal.Number.Integer
']'
        Punctuation
','         Operator
'a'         Name
')'         Punctuation
'+'         Operator
'1'         Literal.Number.Integer
'-'         Operator
'op'        Name.Builtin
'(['        Punctuation
```

```
'2'          Literal.Number.Integer
','          Operator
'2'          Literal.Number.Integer
','          Operator
'1'          Literal.Number.Integer
']'          Punctuation
','          Operator
'a'          Name
'))'         Punctuation
' '          Text.Whitespace
'*'          Operator
' '          Text.Whitespace
'r'          Name
'\n       '  Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'if'         Keyword
';'          Punctuation
'\n       '  Text.Whitespace
'error'      Keyword
' '          Text.Whitespace
'"invalid input: cannot signum %1"' Literal.String
','          Operator
' '          Text.Whitespace
'a'          Name
';'          Punctuation
'\n     '    Text.Whitespace
'end'        Keyword
'
 '          Text.Whitespace
'proc'       Keyword
','          Operator
'\n     '    Text.Whitespace
'signum'     Name
']);'        Punctuation
'\n   '      Text.Whitespace
'protect'    Name
'('          Punctuation
'signum'     Name
');'         Punctuation
'\n\n   '    Text.Whitespace
'# Override sum to fail faster\n' Comment.Single

'   '        Text.Whitespace
'unprotect'  Name
'('          Punctuation
'sum'        Name
');'         Punctuation
```

```
'\n    '      Text.Whitespace
'sum'         Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'overload'    Name
'(['          Punctuation
'\n      '    Text.Whitespace
'proc'        Keyword
'('           Punctuation
'f'           Name
' '           Text.Whitespace
'::'          Operator
' '           Text.Whitespace
'Not'         Name
'({'          Punctuation
'`+`'         Name
','           Operator
'`+`'         Name
'^'           Operator
'integer'     Name
'})'          Punctuation
','
           Operator
'\n           ' Text.Whitespace
'k'           Name
' '           Text.Whitespace
'::'          Operator
' '           Text.Whitespace
'name'        Name
'='           Operator
'And'         Name
'('           Punctuation
'range'       Name
','           Operator
'Not'         Name
'('           Punctuation
'range'       Name
'('           Punctuation
'rational'    Name
')))'         Punctuation
','           Operator
' '           Text.Whitespace
'$'           Operator
')'           Punctuation
'\n        '  Text.Whitespace
'option'      Keyword
' '           Text.Whitespace
```

```
'overload'    Name
';'           Punctuation
'\n        '  Text.Whitespace
'if'          Keyword
' '           Text.Whitespace
'not'         Keyword
' '           Text.Whitespace
'('           Punctuation
'`-`'         Name
'('           Punctuation
'op'          Name.Builtin
'('           Punctuation
'rhs'         Name.Builtin
'('           Punctuation
'k'           Name
')))'
 Punctuation
' '           Text.Whitespace
'::'          Operator
' '           Text.Whitespace
'"'           Punctuation
'rational'    Name
'"'           Punctuation
')'           Punctuation
'\n           ' Text.Whitespace
'and'         Keyword
' '           Text.Whitespace
'not'         Keyword
' '           Text.Whitespace
'('           Punctuation
'subsindets'  Name.Builtin
'('           Punctuation
'f'           Name
','           Operator
' '           Text.Whitespace
'"'           Punctuation
'anything'    Name
'^'           Operator
'integer'     Name
'"'           Punctuation
','           Operator
' '           Text.Whitespace
'f'           Name
'->'          Operator
'op'          Name.Builtin
'('           Punctuation
'1'           Literal.Number.Integer
','           Operator
```

```
'f'          Name
'))'         Punctuation
'\n                  ' Text.Whitespace
'::'         Operator
' '          Text.Whitespace
'"'          Punctuation
'{'          Punctuation
'`+`'
     Name
','          Operator
'And'        Name
'('          Punctuation
'`*`'        Name
','          Operator
'Not'        Name
'('          Punctuation
'`*`'        Name
'('          Punctuation
'Not'        Name
'('          Punctuation
'`+`'        Name
'))))}'      Punctuation
'"'          Punctuation
')'          Punctuation
'\n          ' Text.Whitespace
'and'        Keyword
' '          Text.Whitespace
'depends'    Name
'('          Punctuation
'indets'     Name.Builtin
'('          Punctuation
'f'          Name
','          Operator
' '          Text.Whitespace
'"'          Punctuation
'{'          Punctuation
'specfunc'   Name
'('          Punctuation
'idx'        Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'specindex'  Name
'('          Punctuation
'idx'        Name
')}'         Punctuation
'"'          Punctuation
')'          Punctuation
```

```
','          Operator
' '          Text.Whitespace
'op'
          Name.Builtin
'('          Punctuation
'1'          Literal.Number.Integer
','          Operator
'k'          Name
'))'         Punctuation
'\n       '  Text.Whitespace
'then'       Keyword
'\n          ' Text.Whitespace
'"'          Punctuation
'procname'   Name
'(_'         Punctuation
'passed'     Name
')'          Punctuation
'"'          Punctuation
'\n       '  Text.Whitespace
'else'       Keyword
'\n          ' Text.Whitespace
'error'      Keyword
' '          Text.Whitespace
'"invalid input: cannot fast-fail sum(%1, %2)"' Literal.String
','          Operator
' '          Text.Whitespace
'_passed'    Name
'\n       '  Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'if'         Keyword
'\n      '   Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'proc'       Keyword
','          Operator
'\n      '   Text.Whitespace
'sum'        Name
']);'        Punctuation
'\n    '     Text.Whitespace
'protect'    Name
'('
          Punctuation
'sum'        Name
');'         Punctuation
'\n\n    '   Text.Whitespace
':'          Operator
'-'          Operator
```

```
'`print/Ints`' Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'curry'      Name
'('          Punctuation
'thismodule'  Name
':'          Operator
'-'          Operator
'Print'      Name
','          Operator
'Ints'       Name
');'         Punctuation
'\n    '     Text.Whitespace
':'          Operator
'-'          Operator
'`print/Sums`' Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'curry'      Name
'('          Punctuation
'thismodule'  Name
':'          Operator
'-'          Operator
'Print'      Name
','          Operator
'Sums'       Name
');'         Punctuation
'\n    '     Text.Whitespace
':'          Operator
'-'          Operator
'`print/ints`' Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'curry'
      Name
'('          Punctuation
'thismodule'  Name
':'          Operator
'-'          Operator
'Print'      Name
','          Operator
'ints'       Name
');'         Punctuation
'\n    '     Text.Whitespace
':'          Operator
```

```
'-'          Operator
'`print/sums`' Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'curry'      Name
'('          Punctuation
'thismodule'  Name
':'          Operator
'-'          Operator
'Print'      Name
','          Operator
'sums'       Name
');'         Punctuation
'\n\n  '     Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'proc'       Keyword
';'          Punctuation
'\n  '       Text.Whitespace
'ModuleLoad'  Name
'()'         Punctuation
':'          Operator
'\n'         Text.Whitespace

'end'        Keyword
' '          Text.Whitespace
'module'     Keyword
';'          Punctuation
' '          Text.Whitespace
'# Loop\n'    Comment.Single
```

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1.5981 jinja 3.1.2

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1.5982 idna 3.4

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1.5983 pyopenssl 23.2.0

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1.5984 structured-merge-diff 4.2.1

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1.5985 procfs 0.7.3

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1.6003 go-textseg 13.0.0

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1.6004 rardecode 1.1.2

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1.6007 ldap 3.4.4

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1.6013 ssh-agent 0.3.1

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1.6014 contrib-instrumentation-net-http-otelhttp 0.46.1

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1.6015 spec 0.21.0

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1.6023 go-internal 1.12.0

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1.6024 pgproto3 2.3.3

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1.6026 contrib-instrumentation-google.golang.org-grpc-otelgrpc 0.49.0

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1.6027 analysis 0.21.4

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1.6028 go-autorest-autorest-azure-cli 0.4.6

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1.6042 strip-ansi 0.0.0-20180116102854-5a71ef0e047d

1.6042.1 Available under license :

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1.6043 aws-sdk-go-v2-internal-configsources 1.3.0

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AWS SDK for Go
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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the license.
 //
 //
 This member is required.
 SourceVersion *string
}

type DeleteLicenseOutput struct {

 // Date on which the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
```

```
}

func addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if
 err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack);
 err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "DeleteLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }
```

```
 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns, addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
}

func addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil
 {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}
```

```
func newServiceMetadataMiddleware_opGetLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "GetLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
```

```
 //
 // * KeyFingerprint
 //
 //
 * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
}

func addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if
 err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
```

```
  SigningName:   "license-manager",
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string
```

```
// Configuration for consumption of the license. Choose a provisional configuration
// for workloads running with continuous connectivity. Choose a borrow
// configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
Information about the license.
LicenseMetadata []types.Metadata
}
```

```
type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
}

func addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack,
 options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
```

```
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err
 != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive
 identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string
```

```
 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata
 middleware.Metadata
}

func addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
```

```
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack);
 err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:
       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
```

```
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 *
 // ProductSKU
 //
 // * Status
 //
 // * KeyFingerprint
 //
 // * Issuer
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
}

func addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
```

```
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return
err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
```

```
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListReceivedLicenses",
 }
}
```

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```
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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 provide to ensure the idempotency of
 // the request.
```

```
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 //
 Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
```

```
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
}

func addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if
 err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
```

```
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
 middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
```

```
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
}

func addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
```

```
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err =
 addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckInLicense",
 }
}
```

1.6044 aws-sdk-go-v2-internal-endpoints 2.6.0

1.6044.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-
Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
```

```
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil,
 err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err !=
 nil {
  return err
 }
```

```
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack);
err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
```

```
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "AssociateLicense",
 }
}
```

AWS SDK for Go

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```
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]
```

```
  steps:
    - name: Checkout target
      uses: actions/checkout@v2
      with:
        path: sdkbase
        ref: ${{ github.base_ref }}
    - name: Checkout this ref
      uses: actions/checkout@v2
      with:
        path: new-ref
        fetch-depth: 0
    - name: Get Diff
      run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
    - name: Get Target Files
      run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
    - name: Checkout scancode
      uses: actions/checkout@v2
      with:
        repository: nexB/scancode-toolkit
        path: scancode-toolkit
        fetch-depth: 1
    - name: Set up Python ${{ matrix.python-version }}
       uses: actions/setup-python@v2
      with:
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
```

```
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
```

```
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return
 err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckInLicense",
 }
}
{
   "smithy": "2.0",
   "shapes": {
       "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
           "type": "integer"
       },
       "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
           "type": "long"
       },
```

"com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
"type": "structure",
"members": {
"Name": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of name to filter by. "
}
},
"Values": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " One or more values for the name to filter by. "
}
},
"Operator": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
"traits": {
"smithy.api#documentation": " An operator for filtering results. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter object that is used to return more specific results from a describe operation.\n Filters can be used to match a set of resources by specific criteria. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
},
"output": {

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"

```
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the Linux subscriptions service settings.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/GetServiceSettings"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest":
{
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "LinuxSubscriptionsDiscovery": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
                "traits": {
                    "smithy.api#documentation": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
                }
            },
            "LinuxSubscriptionsDiscoverySettings": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
                "traits": {
                    "smithy.api#documentation": "<p>Lists the settings defined for Linux subscriptions discovery. The
settings include if\n      Organizations integration has been enabled, and
 which Regions data will be aggregated from.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being
applied.</p>"
                }
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
                "traits": {
                    "smithy.api#documentation": "<p>A message which details the Linux subscriptions service settings
```

current status. "
}
},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Region in which License Manager displays
the aggregated data for Linux\n subscriptions. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
"type": "structure",
"members": {
"AmiId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The AMI ID used to launch the instance. "
}
},
"InstanceID": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The instance ID of the resource. "
}
},
"InstanceType": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The instance type of the resource. "
}

},
"AccountID": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The account ID which owns the instance. "
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of the instance. "
}
},
"Region": {
"target": "smithy.api#String",

"traits": {
"smithy.api#documentation": " The Region the instance is running in. "
}
},
"UsageOperation": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The usage operation of the instance. For more information, see For more information, see\n Usage\n operation values in the License Manager User Guide. "
}
},
"ProductCode": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",
"traits": {
"smithy.api#documentation": " The product code for the instance. For more information, see Usage\n operation values in the License Manager User Guide . "
}
},
"LastUpdatedTime": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The time in which the last discovery updated the instance details. "
}
},
"SubscriptionName": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the subscription being used by the instance. "
}
}
},
"traits": {
"smithy.api#documentation": " Details discovered information about a running instance using Linux subscriptions. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException": {
"type": "structure",

```
    "members": {
        "message": {
            "target": "smithy.api#String"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
        "smithy.api#error": "server"
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
    "type": "service",
    "version": "2018-05-10",
    "operations": [
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
        },
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
        },
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
        },
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
        }
    ],

"traits": {
        "aws.api#service": {
            "sdkId": "License Manager Linux Subscriptions",
            "arnNamespace": "license-manager-linux-subscriptions",
            "cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
        },
        "aws.auth#sigv4": {
            "name": "license-manager-linux-subscriptions"
        },
        "aws.protocols#restJson1": {},
        "smithy.api#cors": {
            "additionalAllowedHeaders": [
                "*",
                "content-type",
                "x-amz-content-sha256",
                "x-amz-user-agent",
                "x-amzn-platform-id",
                "x-amzn-trace-id",
                "content-length",
                "x-api-key",
```

"authorization",
"x-amz-date",

"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"
]
},
"smithy.api#documentation": " With License Manager, you can discover and track your commercial Linux subscriptions on running\n Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager Linux Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",

"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",

```
        "type": "String"
      }
    },
    "rules": [
      {
        "conditions": [
          {
            "fn": "isSet",
            "argv": [
              {
                "ref": "Endpoint"
              }
            ]
          }
        ],
        "type": "tree",
        "rules": [
          {

          "conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  {
                    "ref": "UseFIPS"
                  },
                  true
                ]
              }
            ],
            "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
            "type": "error"
          },
          {
            "conditions": [],
            "type": "tree",
            "rules": [
              {

            "conditions": [
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      {
                        "ref": "UseDualStack"
                      },
                      true
                    ]
```

```
                    }
                ],
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                "type": "error"
            },
            {
                "conditions": [],

        "endpoint": {
                    "url": {
                        "ref": "Endpoint"
                    },
                    "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
            }
        ]
    }
  ]
},
{
  "conditions": [],
  "type": "tree",
  "rules": [
    {
      "conditions": [
        {
          "fn": "isSet",

"argv": [
                    {
                        "ref": "Region"
                    }
                ]
            }
        ],
        "type": "tree",
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "aws.partition",
                        "argv": [
                            {
                                "ref": "Region"
                            }
                        ],
```

```
"assign": "PartitionResult"
                    }
                ],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    {
                                        "ref": "UseFIPS"
                                    },
                                    true
                                ]
                            },

            {
                                "fn": "booleanEquals",
                                "argv": [
                                    {
                                        "ref": "UseDualStack"
                                    },
                                    true
                                ]
                            }
                        ],
                        "type": "tree",
                        "rules": [
                            {
                                "conditions": [
                                    {

                                "fn": "booleanEquals",
                                        "argv": [
                                            true,
                                            {
                                                "fn": "getAttr",
                                                "argv": [
                                                    {
                                                        "ref": "PartitionResult"
                                                    },
                                                    "supportsFIPS"
                                                ]

    }
                                        ]
```

```
                    },
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            true,
                            {
                                "fn": "getAttr",
                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },

                        "supportsDualStack"
                                ]
                            }
                        ]
                    }
                ],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [],
                        "type": "tree",
                        "rules": [
                            {

            "conditions": [],
                                "endpoint": {
                                    "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                    "properties": {},
                                    "headers": {}
                                },
                                "type": "endpoint"
                            }
                        ]
                    }
                ]

            },
                {
                "conditions": [],
                "error": "FIPS and DualStack are enabled, but this partition does not support
one or both",
                "type": "error"
                }
            ]
        },
```

```
                    {
                      "conditions": [
                        {
                          "fn": "booleanEquals",
                          "argv": [
                            {

            "ref": "UseFIPS"
                            },
                            true
                          ]
                        }
                      ],
                      "type": "tree",
                      "rules": [
                        {
                          "conditions": [
                            {
                              "fn": "booleanEquals",
                              "argv": [
                                true,

  {
                                  "fn": "getAttr",
                                  "argv": [
                                    {
                                      "ref": "PartitionResult"
                                    },
                                    "supportsFIPS"
                                  ]
                                }
                              ]
                            }
                          ],
                          "type": "tree",

                    "rules": [
                            {
                              "conditions": [],
                              "type": "tree",
                              "rules": [
                                {
                                  "conditions": [],
                                  "endpoint": {
                                    "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                                    "properties": {},
                                    "headers": {}
```

```
                    },
                    "type": "endpoint"
                  }
                ]
              }
            ]
          },
          {
            "conditions": [],
            "error": "FIPS is enabled but this partition does not support FIPS",
            "type": "error"
          }
        ]

    },
        {
        "conditions": [
          {
            "fn": "booleanEquals",
            "argv": [
              {
                "ref": "UseDualStack"
              },
              true
            ]
          }
        ],
        "type": "tree",
        "rules": [
          {

         "conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  true,
                  {
                    "fn": "getAttr",
                    "argv": [
                      {
                        "ref": "PartitionResult"
                      },
                      "supportsDualStack"
                    ]
                  }
                ]
              }
```

```
                                    ],
                                    "type": "tree",
                                    "rules": [
                                        {
                                            "conditions": [],
                                            "type": "tree",
                                            "rules": [
                                                {
                                                    "conditions": [],

                                        "endpoint": {
                                                        "url": "https://license-manager-linux-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                                        "properties": {},
                                                        "headers": {}
                                                    },
                                                    "type": "endpoint"
                                                }
                                            ]
                                        }
                                    ]
                                },

        {
                                    "conditions": [],
                                    "error": "DualStack is enabled but this partition does not support DualStack",
                                    "type": "error"
                                }
                            ]
                        },
                        {
                            "conditions": [],
                            "type": "tree",
                            "rules": [
                                {
                                    "conditions": [],
                                    "endpoint": {
                                        "url":
"https://license-manager-linux-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
                                        "properties": {},
                                        "headers": {}
                                    },
                                    "type": "endpoint"
                                }
                            ]
                        }
                    ]
                }
```

```
                ]
            },
            {
                "conditions": [],
                "error": "Invalid Configuration: Missing Region",
                "type": "error"
            }
        ]
      }
    ]
  },
  "smithy.rules#endpointTests": {
    "testCases": [
      {
        "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
            }
        },
        "params": {
            "Region": "us-east-1",
            "UseFIPS": true,
            "UseDualStack": true
        }
      },
      {
        "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
        "expect": {

"endpoint": {
                "url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
            }
        },
        "params": {
            "Region": "us-east-1",
            "UseFIPS": true,
            "UseDualStack": false
        }
      },
      {
        "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
            }
        },
        "params": {
```

```
        "Region": "us-east-1",
        "UseFIPS": false,
         "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
            "url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "endpoint": {

      "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
        }
      },
      "params": {
        "Region": "cn-north-1",
        "UseFIPS": true,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
            "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
        }
      },
      "params": {
        "Region": "cn-north-1",
        "UseFIPS": true,
         "UseDualStack": false
      }
    },
    {
      "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
      "expect": {
```

```
            "endpoint": {
                "url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
            }
        },
        "params": {
            "Region": "cn-north-1",
            "UseFIPS": false,
            "UseDualStack": true
        }
    },
    {
        "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint":
{
                "url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
            }
        },
        "params": {
            "Region": "cn-north-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
            }
        },
        "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": true,
             "UseDualStack": true
        }
    },
    {
        "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.amazonaws.com"
            }
        },
        "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": true,
            "UseDualStack": false
```

```
            }
        },
        {
            "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
                "endpoint":
{
                    "url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
                }
            },
            "params": {
                "Region": "us-gov-east-1",
                "UseFIPS": false,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
                }
            },
            "params": {
                "Region": "us-gov-east-1",
                "UseFIPS": false,
                 "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": true,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
                 }
            },
            "params": {
```

"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{

"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {

"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
}

```
            },
            "params": {
              "Region": "us-isob-east-1",
              "UseFIPS": true,
              "UseDualStack": false
            }
          },
          {
            "documentation": "For region us-isob-east-1 with FIPS disabled
and DualStack enabled",
            "expect": {
              "error": "DualStack is enabled but this partition does not support DualStack"
            },
            "params": {
              "Region": "us-isob-east-1",
              "UseFIPS": false,
              "UseDualStack": true
            }
          },
          {
            "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
              }
            },
            "params": {
              "Region": "us-isob-east-1",

        "UseFIPS": false,
              "UseDualStack": false
            }
          },
          {
            "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
            "expect": {
              "endpoint": {
                "url": "https://example.com"
              }
            },
            "params": {
              "Region": "us-east-1",
              "UseFIPS": false,
              "UseDualStack": false,
              "Endpoint": "https://example.com"
            }
          },
          {
```

"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",

"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,

"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips disabled and dualstack enabled",
"expect": {
"error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true,
"Endpoint": "https://example.com"
}
},
{
"documentation": "Missing region",
"expect": {
"error": "Invalid Configuration: Missing Region"
}

}
],
"version": "1.0"

```
            }
          }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
          "type": "string",
          "traits": {
            "smithy.api#enum": [
              {
                "name": "Enabled",
                "value": "Enabled",
                "documentation": "Enabled LinuxSubscriptionsDiscovery"
              },
              {
                "name": "Disabled",
                "value": "Disabled",
                "documentation": "Disabled LinuxSubscriptionsDiscovery"
              }
            ]
          }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
          "type": "structure",
          "members": {
            "SourceRegions": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
               "traits": {
                "smithy.api#documentation": "<p>The Regions in which to discover data for Linux
subscriptions.</p>",
                "smithy.api#required": {}
              }
            },
            "OrganizationIntegration": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
              "traits": {
                "smithy.api#documentation": "<p>Details if you have enabled resource discovery across your
accounts in Organizations.</p>",
                "smithy.api#required": {}
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Lists the settings defined for discovering Linux subscriptions.</p>"
          }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances": {
          "type":
 "operation",
          "input": {
```

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the running Amazon EC2 instances that were discovered with commercial Linux\n subscriptions. ",
"smithy.api#http": {

"code": 200,
"method": "POST",
"uri": "/subscription/ListLinuxSubscriptionInstances"
},
"smithy.api#idempotent": {},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "Instances"
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest": {
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. For example, you can filter by the name of\n <code>AmiID</code> with an optional operator to see subscriptions that match, partially\n match, or don't match a certain Amazon Machine Image (AMI) ID. \n The valid names for this filter are: \n \n \n \n <code>AmiID</code>\n \n \n \n \n <code>InstanceID</code>\n \n \n \n \n <code>AccountID</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n

```
<code>Region</code>\n            </p>\n          </li>\n          <li>\n            <p>\n
<code>UsageOperation</code>\n            </p>\n          </li>\n          <li>\n
    <p>\n              <code>ProductCode</code>\n            </p>\n          </li>\n          <li>\n            <p>\n
    <code>InstanceType</code>\n            </p>\n          </li>\n        </ul>\n        <p>The valid Operators for this
filter are:</p>\n        <ul>\n          <li>\n            <p>\n              <code>contains</code>\n            </p>\n
</li>\n          <li>\n            <p>\n              <code>equals</code>\n            </p>\n          </li>\n          <li>\n
        <p>\n              <code>Notequal</code>\n            </p>\n          </li>\n        </ul>"
              }
            },
            "MaxResults": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
              "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"

      }
            },
            "NextToken": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>",
                "smithy.api#length": {
                  "min": 1,
                  "max": 16384
                }
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
          }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
          "type": "structure",
          "members": {
            "Instances": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
              "traits": {
                "smithy.api#documentation":
 "<p>An array that contains instance objects.</p>"
              }
            },
            "NextToken": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            }
```

```
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the Linux subscriptions that have been discovered. If you have
linked your\n      organization, the returned results will include data aggregated across your accounts in\n
Organizations.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/ListLinuxSubscriptions"
            },
            "smithy.api#idempotent": {},
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "Subscriptions"
            }

        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify. For example, you can filter by the name of\n
```

```
 <code>Subscription</code> with an optional operator to see subscriptions that match,\n      partially match, or don't
match a certain subscription's name.</p>\n         <p>The valid names for this filter are:</p>\n         <ul>\n
<li>\n             <p>\n                <code>Subscription</code>\n             </p>\n          </li>\n        </ul>\n
<p>The valid Operators for this filter are:</p>\n
        <ul>\n          <li>\n             <p>\n                <code>contains</code>\n             </p>\n          </li>\n
<li>\n             <p>\n                <code>equals</code>\n             </p>\n          </li>\n          <li>\n             <p>\n
             <code>Notequal</code>\n             </p>\n          </li>\n        </ul>"
              }
            },
            "MaxResults": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
              "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
              }
            },
            "NextToken": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>",
                "smithy.api#length": {

                 "min": 1,
                   "max": 16384
                }
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
          }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
          "type": "structure",
          "members": {
            "Subscriptions": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
              "traits": {
                "smithy.api#documentation": "<p>An array that contains subscription objects.</p>"
              }
            },
            "NextToken": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for
 the next set of results.</p>"
              }
            }
```

```
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "name": "EQUAL",
                    "value": "Equal",
                    "documentation": "Equal operator"
                },
                {
                    "name": "NOT_EQUAL",
                    "value": "NotEqual",
                    "documentation": "Not equal operator"
                },
                {
                    "name": "CONTAINS",
                    "value": "Contains",
                    "documentation": "Contains operator"
                }
            ],
            "smithy.api#length": {
                "min": 1,
                "max": 20
            }
        }
    },

"com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "name": "Enabled",
                    "value": "Enabled",
                    "documentation": "Enabled OrganizationIntegration"
                },
                {
                    "name": "Disabled",
                    "value": "Disabled",
                    "documentation": "Disabled OrganizationIntegration"
                }
            ]
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
        "type": "list",
```

```
        "member": {
            "target": "smithy.api#String"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [

    {
                "name": "InProgress",
                "value": "InProgress",
                "documentation": "InProgress status"
            },
            {
                "name": "Completed",
                "value": "Completed",
                "documentation": "Completed status"
            },
            {
                "name": "Successful",
                "value": "Successful",
                "documentation": "Successful status"
            },
            {
                "name": "Failed",
                "value": "Failed",
                "documentation": "Failed status"
            }
        ]
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
        "type": "list",
        "member": {
            "target": "smithy.api#String",
            "traits":
{
                "smithy.api#length": {
                    "min": 1,
                    "max": 100
                }
            }
        },
        "traits": {
            "smithy.api#length": {
                "min": 1,
                "max": 100
```

```
            },
            "smithy.api#uniqueItems": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
        "type": "map",
        "key": {
            "target": "smithy.api#String"
        },
        "value": {
            "target": "smithy.api#String"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the subscription.</p>"

        }
            },
            "Type": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The type of subscription. The type can be subscription-included
with Amazon EC2, Bring Your Own\n      Subscription model (BYOS), or from the Amazon Web Services
Marketplace. Certain subscriptions may use licensing from the\n      Amazon Web Services Marketplace as well as
OS licensing from Amazon EC2 or BYOS.</p>"
                }
            },
            "InstanceCount": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>The total amount of running instances using this subscription.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>An object which details a discovered Linux
subscription.</p>"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
```

```
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request was denied due to request throttling.</p>",
            "smithy.api#error": "client"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
        },

    "output": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates the service settings for Linux subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/UpdateServiceSettings"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest":
{
        "type": "structure",
        "members": {
```

"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Describes if the discovery of Linux subscriptions is enabled. ",
"smithy.api#required": {}
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from. ",

"smithy.api#required": {}
}
},
"AllowUpdate": {
"target": "smithy.api#Boolean",
"traits": {
"smithy.api#documentation": " Describes if updates are allowed to the service settings for Linux subscriptions. If you\n allow updates, you can aggregate Linux subscription data in more than one home Region. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},

"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {

"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation": " A message which details the Linux subscriptions service settings current status. "
}
},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Region in which License Manager displays the aggregated data for Linux\n subscriptions. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The provided input is not valid. Try your request again. ",
"smithy.api#error": "client"
}
}
}
}

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //   - Beneficiary
 //   - ProductSKU
 //   - Fingerprint
 //
   - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string
```

```
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if
 err := addProtocolFinalizerMiddlewares(stack, options, "ListLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
```

```
 return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:
     ServiceID,
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana
```

```
import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 //
 This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
```

```
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack,
 options, "DisassociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
```

```
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata
```

```
 {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
 CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType
```

```
 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource
 Name (ARN) of the checkout license.
 LicenseArn *string
```

```
 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil
 {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
```

```
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack);
err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
```

```
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier
 that you provide to ensure the idempotency of
 // the request.
 //
```

```
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string
```

```
 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutBorrowLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
```

```
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return
err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
```

```
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string
```

```
// Unique, case-sensitive identifier that you provide
to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional
// configuration for workloads running with continuous connectivity. Choose a
// borrow configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
```

```
 Validity
 *types.DatetimeRange

 // Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
  return fmt.Errorf("add
 protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
```

```
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName:
 "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
```

```
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
```

```
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return
err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack);
err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
```

```
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  OperationName: "GetLicense",
 }
}
```

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DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
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```
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OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
   - ProductSKU
 //   - Status
 //   - Fingerprint
 //   - IssuerName
 //   - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string
```

```
 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{},
 middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
```

```
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack);
err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
```

```
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "ListReceivedLicenses",
 }
}
```

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```
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException": {
      "type": "structure",
      "members": {
        "message": {
          "target": "smithy.api#String"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>You don't have sufficient access to perform this action.</p>",
        "smithy.api#error": "client"
      }
    },
```

"com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
"type": "structure",
"members": {
"DirectoryId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The directory ID for an Active Directory identity provider. "
}
}
},
"traits": {
"smithy.api#documentation":
" Details about an Active Directory identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUser": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Associates the user to an EC2 instance to utilize user-based

subscriptions. \n <note>\n Your estimated bill for charges on the number of users and related costs will take 48\n hours to appear for billing periods that haven't closed (marked as Pending billing status) in Amazon Web Services Billing. For more information, see Viewing your\n monthly charges in the Amazon Web Services Billing User Guide. \n </note>",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/AssociateUser"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
},
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the
EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " The identity provider of the user. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse": {
"type": "structure",

"members": {
"InstanceUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#BoxInteger": {
"type": "integer"
},
"com.amazonaws.licensemanagerusersubscriptions#ConflictException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request couldn't be completed because it conflicted with the current state of the\n resource. ",
"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},

```
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deregisters the identity provider from providing user-based
subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/DeregisterIdentityProvider"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest": {
        "type": "structure",
        "members": {
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse": {
        "type": "structure",
        "members": {
            "IdentityProviderSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
                "traits": {
                    "smithy.api#documentation":
```

" Metadata that describes the results of an identity provider operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUser": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Disassociates the user from an EC2 instance providing user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/DisassociateUser"
},
"smithy.api#idempotent": {}
}

```
},
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation":
"<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse": {
        "type": "structure",
        "members": {
            "InstanceUserSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
```

"com.amazonaws.licensemanagerusersubscriptions#Filter": {
"type": "structure",
"members": {
"Attribute": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of an attribute to use as a filter. "
}
},
"Operation": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of search (For example, eq, geq, leq) "
}
},
"Value": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Value of the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter name and value pair that is used
to return more specific results from a describe\n operation. Filters can be used to match a set of resources by
specific criteria, such as tags,\n attributes, or IDs. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
}
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
"type": "union",
"members": {
"ActiveDirectoryIdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
"traits": {
"smithy.api#documentation": " An object that details an Active Directory identity provider. "
}
}
},
"traits": {
"smithy.api#documentation":
" Details about an identity provider. "
}

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {
        "type": "structure",
        "members": {
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Settings": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
                "traits": {
                    "smithy.api#documentation": "<p>An object that details the registered identity providers product
related configuration\n      settings such as the subnets to provision VPC endpoints.</p>",
                    "smithy.api#required":
 {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status of an identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "FailureMessage": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The failure message associated with an identity provider.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation":
 "<p>Describes an identity provider.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList": {
        "type": "list",
```

```
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary": {
        "type": "structure",
        "members": {
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status
 of an EC2 instance resource.</p>",
                    "smithy.api#required": {}
                }
            },
            "Products": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>A list of provided user-based subscription products.</p>",
                    "smithy.api#required": {}
                }
            },
            "LastStatusCheckDate": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The date of the last status check.</p>"
                }
            },
            "StatusMessage": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status message for an EC2 instance.</p>"
                }

    }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes an EC2 instance providing user-based subscriptions.</p>"
        }
    },
```

"com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
},
"InstanceId": {
"target": "smithy.api#String",
"traits":
{
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of a user associated with an EC2 instance. ",
"smithy.api#required": {}
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for users of an EC2 instance. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {

"smithy.api#documentation": " The domain name of the user. "
}
},
"AssociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was associated with an EC2 instance. "
}
},
"DisassociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was disassociated from an EC2 instance. "
}
}

},
"traits": {
"smithy.api#documentation": " Describes users of an EC2 instance providing user-based subscriptions. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InternalServerException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " An exception occurred with the service. ",
"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
"type": "service",

"version": "2018-05-10",
"operations": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUser"
},

```
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"

        },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
            }
        ],
        "traits": {
            "aws.api#service": {
                "sdkId": "License Manager User Subscriptions",
                "arnNamespace": "license-manager-user-subscriptions",
                "cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
            },
            "aws.auth#sigv4": {
                "name": "license-manager-user-subscriptions"
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            "aws.protocols#restJson1": {},
            "smithy.api#cors": {
                "additionalAllowedHeaders": [
                    "*",
                    "content-type",
                    "x-amz-content-sha256",
                    "x-amz-user-agent",
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"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",
"x-api-key",
"authorization",
"x-amz-date",
"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"

]
},
"smithy.api#documentation": " With License Manager, you can create user-based subscriptions to utilize licensed software with\n a per user subscription fee on Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager User Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
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"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
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"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
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"Endpoint": {
"builtIn": "SDK::Endpoint",

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            "required": false,
            "documentation": "Override the endpoint used to send this request",
            "type": "String"
        }

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                        "argv": [
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                                "ref": "Endpoint"
                            }
                        ]
                    }
                ],
                "type": "tree",
                "rules": [
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                        "conditions": [
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                                "fn": "booleanEquals",
                                "argv": [
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                                        "ref": "UseFIPS"
                                    },

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                                ]
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                        "type": "error"
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"error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
"type": "error"
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"conditions": [],
"endpoint": {
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"ref": "Endpoint"
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"properties": {},
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"type": "endpoint"
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"fn": "isSet",
"argv": [

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"ref": "Region"
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"type": "tree",
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"argv": [
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"ref": "Region"
}
],
"assign": "PartitionResult"
}
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"type": "tree",

"rules": [
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"conditions": [

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                    {
                      "fn": "booleanEquals",
                      "argv": [
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                        },
                        true
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                              "fn": "getAttr",

"argv": [
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                                  "ref": "PartitionResult"
                                },
                                "supportsFIPS"
                              ]
                            }
                          ]
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                        {
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                          "argv": [
                            true,
                            {

        "fn": "getAttr",
                              "argv": [
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                                        {
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                                        },
                                        "supportsDualStack"
                                    ]
                                }
                            ]
                        }
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                    "rules": [
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            "conditions": [],
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                                    "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                    "properties": {},
                                    "headers": {}
                                },
                                "type": "endpoint"
                        }
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                },
                {
                    "conditions": [],
                    "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
                     "type": "error"
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            ]
        },
        {
            "conditions": [
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                    "fn": "booleanEquals",
                    "argv": [
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                            "ref": "UseFIPS"
                        },
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                    ]
                }
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            "type": "tree",

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                    "argv": [
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                      {
                        "fn": "getAttr",
                        "argv": [
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                            "ref": "PartitionResult"
                          },
                          "supportsFIPS"

                ]
                      }
                    ]
                  }
                ],
                "type": "tree",
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                    "conditions": [],
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                      "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                      "properties": {},
                      "headers": {}

        },
                    "type": "endpoint"
                  }
                ]
              },
              {
                "conditions": [],
                "error": "FIPS is enabled but this partition does not support FIPS",
                "type": "error"
              }
            ]
          },
          {
            "conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  {
                    "ref": "UseDualStack"
                  },
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                true
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    "rules": [
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            "conditions": [
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                    "fn": "booleanEquals",
                    "argv": [
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                         "fn": "getAttr",
                            "argv": [
                                {
                                    "ref": "PartitionResult"
                                },
                                "supportsDualStack"
                            ]
                        }
                    ]
                }
            ],
            "type": "tree",
            "rules": [
                {

                   "conditions": [],
                    "endpoint": {
                        "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                        "properties": {},
                        "headers": {}
                    },
                    "type": "endpoint"
                }
            ]
        },
        {
            "conditions": [],
            "error": "DualStack is enabled but this partition does
 not support DualStack",
            "type": "error"
        }
    ]
},
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{
"conditions": [],
"endpoint": {
"url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
"properties": {},
"headers": {}
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"type": "endpoint"
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"conditions":
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"error": "Invalid Configuration: Missing Region",
"type": "error"
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"smithy.rules#endpointTests": {
"testCases": [
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation":
"For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
}
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"params": {
"Region": "us-east-1",
"UseFIPS": true,

"UseDualStack": false
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"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
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"endpoint": {
"url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
}
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"params": {
"Region": "us-east-1",
"UseFIPS": false,
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"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
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"documentation": "For region cn-north-1 with
FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.cn-north-
1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {

"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
}
},

"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": false
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"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1
with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
}
},

"params": {
"Region": "us-gov-east-1",

"UseFIPS": true,
"UseDualStack": true
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"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
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}
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"params": {
"Region": "us-gov-east-1",
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"UseDualStack": false
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"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
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"endpoint": {
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}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
}
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"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {

"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect":
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"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
}
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"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
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"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
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"params": {
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"UseFIPS": false,
"UseDualStack":
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"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"
}
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"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but
this partition does not support one or both"
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"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
}
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{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
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"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
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"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
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"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
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}
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"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": false
}

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        },
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          "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
          "expect": {
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              "url": "https://example.com"
            }
          },
          "params": {
            "Region": "us-east-1",
            "UseFIPS": false,
            "UseDualStack": false,
            "Endpoint": "https://example.com"
          }
        },
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"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
          "expect": {
            "endpoint": {
              "url": "https://example.com"
            }
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          "params": {
            "UseFIPS": false,
            "UseDualStack": false,
            "Endpoint": "https://example.com"
          }
        },
        {
          "documentation": "For custom endpoint with fips enabled and dualstack disabled",
          "expect": {
            "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
          },
          "params": {
            "Region": "us-east-1",
             "UseFIPS": true,
            "UseDualStack": false,
            "Endpoint": "https://example.com"
          }
        },
        {
          "documentation": "For custom endpoint with fips disabled and dualstack enabled",
          "expect": {
            "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
          },
          "params": {
            "Region": "us-east-1",
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                "UseFIPS": false,
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                "Endpoint": "https://example.com"
            }
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        {
            "documentation": "Missing region",
            "expect": {
                "error": "Invalid Configuration: Missing Region"
            }
        }
    ],
    "version": "1.0"
  }
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {
  "type": "operation",
  "input": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
  },
  "output": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
  },
  "errors": [
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
    }
  ],
  "traits": {
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"smithy.api#documentation": " Lists the identity providers for user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/ListIdentityProviders"
},
"smithy.api#paginated":
{
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "IdentityProviderSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest": {
"type": "structure",
"members": {
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse":
{
"type": "structure",
"members": {
"IdentityProviderSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list identity providers operation. ",
"smithy.api#required": {}
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}

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        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstances": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest"
     },
    "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse"
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    "errors": [
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
         },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the EC2 instances providing user-based subscriptions.</p>",
        "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/instance/ListInstances"
        },
        "smithy.api#paginated": {
            "inputToken": "NextToken",
            "outputToken": "NextToken",
            "pageSize": "MaxResults",
            "items": "InstanceSummaries"
        }
    }
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    },
    "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest": {
      "type": "structure",
      "members": {
        "MaxResults": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
           "traits": {
            "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
          }
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        "NextToken": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        },
        "Filters": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
          "traits": {
            "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify.</p>"
          }
        }
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse": {
      "type":
 "structure",
      "members": {
        "InstanceSummaries": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList",
          "traits": {
            "smithy.api#documentation": "<p>Metadata that describes the list instances operation.</p>"
          }
        },
        "NextToken": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest"
      },
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        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the user-based subscription products available from an identity
provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/ListProductSubscriptions"
            },
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "ProductUserSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest": {
        "type": "structure",
        "members": {
            "Product": {
                "target": "smithy.api#String",
                "traits": {
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"smithy.api#documentation": " The name
of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
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"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
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"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match
one or\n more sets of key-value pairs that you specify. "
}
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"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse": {
"type": "structure",
"members": {
"ProductUserSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list product subscriptions
operation. "
}
},

"NextToken": {
"target": "smithy.api#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target":
"com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists user associations for an identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/ListUserAssociations"
},
"smithy.api#paginated":
{
"inputToken": "NextToken",
"outputToken": "NextToken",

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            "pageSize": "MaxResults",
            "items": "InstanceUserSummaries"
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest": {
        "type": "structure",
        "members": {
          "InstanceId": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
              "smithy.api#required": {}
            }
          },
          "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
              "smithy.api#documentation": "<p>An object that specifies details for the identity
 provider.</p>",
              "smithy.api#required": {}
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          },
          "Filters": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify.</p>"
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for
 the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse": {
        "type": "structure",
```

```
    "members": {
      "InstanceUserSummaries": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList",
        "traits": {
          "smithy.api#documentation": "<p>Metadata that describes the list user association operation.</p>"
        }
      },
      "NextToken": {
        "target": "smithy.api#String",
        "traits": {
          "smithy.api#documentation": "<p>Token for the next set of results.</p>"
        }
      }
    }
  },
  "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary": {
    "type": "structure",
    "members": {

    "Username": {
        "target": "smithy.api#String",
        "traits": {
          "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
          "smithy.api#required": {}
        }
      },
      "Product": {
        "target": "smithy.api#String",
        "traits": {
          "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
          "smithy.api#required": {}
        }
      },
      "IdentityProvider": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
        "traits": {
          "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
          "smithy.api#required": {}
        }

},
      "Status": {
        "target": "smithy.api#String",
        "traits": {
          "smithy.api#documentation": "<p>The status of a product for a user.</p>",
          "smithy.api#required": {}
        }
      },
```

"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for a product for a user. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"SubscriptionStartDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The
start date of a subscription. "
}
},
"SubscriptionEndDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The end date of a subscription. "
}
}
},
"traits": {
"smithy.api#documentation": " The summary of the user-based subscription products for a user. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},

```
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Registers an identity provider for user-based subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/RegisterIdentityProvider"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest": {
        "type": "structure",
        "members": {
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity
provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "Settings": {
```

"target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings such as the\n subnets to provision VPC endpoints. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary":
{
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the results of an identity provider operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The resource couldn't be found. ",
"smithy.api#error": "client",
"smithy.api#httpError": 404
}
},
"com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
"type": "string",

"traits": {
"smithy.api#length": {
"min": 5,
"max": 200
},
"smithy.api#pattern": "^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
"type": "structure",

```
        "members": {
          "message": {
            "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The request failed because a service quota is exceeded.</p>",
          "smithy.api#error": "client"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#Settings": {
        "type": "structure",
        "members": {
          "Subnets": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
            "traits": {
              "smithy.api#documentation":
 "<p>The subnets defined for the registered identity provider.</p>",
              "smithy.api#length": {
                "min": 1
              },
              "smithy.api#required": {}
            }
          },
          "SecurityGroupId": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
            "traits": {
              "smithy.api#documentation": "<p>A security group ID that allows inbound TCP port 1688
communication between resources in\n      your VPC and the VPC endpoint for activation servers.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The registered identity providers product related configuration settings
such as the\n      subnets to provision VPC endpoints, and the security group ID that
 is associated with the VPC\n      endpoints. The security group should permit inbound TCP port 1688
communication from resources\n      in the VPC.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
        },
```

"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Starts a product subscription for a user with the specified identity provider. \n <note>\n Your estimated bill for charges on the number of users and related costs will take 48\n hours to appear for billing periods that haven't closed (marked as Pending billing status) in Amazon Web Services Billing.
For more information, see Viewing your\n monthly charges in the Amazon Web Services Billing User Guide. \n </note>",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/StartProductSubscription"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider of the user. ",
"smithy.api#required": {}
}
},

"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse": {
"type": "structure",
"members": {
"ProductUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the start product subscription operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"

```
    },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Stops a product subscription for a user with the specified identity
provider.</p>",
             "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/StopProductSubscription"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required":
 {}
                }
            },
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"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse": {
"type": "structure",
"members": {
"ProductUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
"traits": {
"smithy.api#documentation":
" Metadata that describes the start product subscription operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StringList": {
"type": "list",
"member": {
"target": "smithy.api#String"
}
},
"com.amazonaws.licensemanagerusersubscriptions#Subnet": {
"type": "string",
"traits": {
"smithy.api#pattern": "subnet-[a-z0-9]{8,17}"
}
},
"com.amazonaws.licensemanagerusersubscriptions#Subnets": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnet"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ThrottlingException": {
"type": "structure",

"members": {
"message": {

"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request was denied because of request throttling. Retry the request. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates additional product configuration settings for the registered identity\n provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/UpdateIdentityProviderSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest": {
"type": "structure",
"members": {

"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"UpdateSettings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings",
"traits": {
"smithy.api#documentation": " Updates the registered identity providers product related configuration settings. You can\n update any combination of settings in a single operation such as the: \n \n \n Subnets which you want to add to provision VPC endpoints. \n \n \n Subnets which you want to remove the VPC endpoints from. \n \n \n Security group ID which permits traffic to the VPC endpoints. \n \n ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateSettings": {
"type": "structure",
"members": {
"AddSubnets": {

"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " The ID of one or more subnets in which License Manager will create a VPC endpoint for products that\n require connectivity to activation servers. ",
"smithy.api#required": {}
}

```
            },
            "RemoveSubnets": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of one or more subnets to remove.</p>",
                    "smithy.api#required": {}
                }
            },
            "SecurityGroupId": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
                "traits": {
                    "smithy.api#documentation": "<p>A security group ID
 that allows inbound TCP port 1688 communication between resources in\n      your VPC and the VPC endpoints for
activation servers.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Updates the registered identity providers product related configuration
settings such as\n      the subnets to provision VPC endpoints.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ValidationException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A parameter is not valid.</p>",
            "smithy.api#error": "client"
        }
    }
  }
}
{
  "smithy": "2.0",
  "metadata": {
    "suppressions": [
        {
            "id": "HttpMethodSemantics",
            "namespace": "*"
        },
        {
            "id": "HttpResponseCodeSemantics",
            "namespace": "*"
        },
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        {
            "id": "PaginatedTrait",
            "namespace": "*"
        },
        {
            "id": "HttpHeaderTrait",
            "namespace": "*"
        },
        {
            "id": "HttpUriConflict",
            "namespace": "*"
        },
        {
            "id": "Service",
            "namespace": "*"
        }
    ]
},
"shapes": {
    "com.amazonaws.licensemanager#AWSLicenseManager": {
        "type": "service",
        "version": "2018-08-01",
        "operations": [
            {
                "target": "com.amazonaws.licensemanager#AcceptGrant"
            },

 {
                "target": "com.amazonaws.licensemanager#CheckInLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CheckoutLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateGrant"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateGrantVersion"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
            },
```

```
    {
      "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
     },
    {
      "target": "com.amazonaws.licensemanager#CreateLicenseVersion"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateToken"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteGrant"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicense"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteToken"
    },
    {
      "target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

  },
    {
      "target": "com.amazonaws.licensemanager#GetAccessToken"
    },
    {
      "target": "com.amazonaws.licensemanager#GetGrant"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicense"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
```

```
},
{
   "target": "com.amazonaws.licensemanager#GetLicenseUsage"
},
{
   "target": "com.amazonaws.licensemanager#GetServiceSettings"
},
{
   "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration"
 },
{
   "target": "com.amazonaws.licensemanager#ListDistributedGrants"
},
{
   "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
},
{
   "target": "com.amazonaws.licensemanager#ListLicenseConfigurations"
},
{
   "target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
},
{
   "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
},
{
   "target": "com.amazonaws.licensemanager#ListLicenses"
},
{
   "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
},
{

  "target": "com.amazonaws.licensemanager#ListLicenseVersions"
},
{
   "target": "com.amazonaws.licensemanager#ListReceivedGrants"
},
{
   "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganization"
},
{
   "target": "com.amazonaws.licensemanager#ListReceivedLicenses"
},
{
   "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization"
},
{
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"target": "com.amazonaws.licensemanager#ListResourceInventory"
},
{
"target": "com.amazonaws.licensemanager#ListTagsForResource"
},
{
"target": "com.amazonaws.licensemanager#ListTokens"
},
{
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#RejectGrant"
},
{
"target": "com.amazonaws.licensemanager#TagResource"
},
{
"target": "com.amazonaws.licensemanager#UntagResource"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
},
{
"target": "com.amazonaws.licensemanager#UpdateServiceSettings"
}
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"traits": {
"aws.api#service": {
"sdkId": "License Manager",
"arnNamespace": "license-manager",
"cloudFormationName": "LicenseManager",
"cloudTrailEventSource": "licensemanager.amazonaws.com",
"endpointPrefix": "license-manager"
},
"aws.auth#sigv4": {
"name": "license-manager"
},
"aws.protocols#awsJson1_1": {},
"smithy.api#documentation": " License Manager makes it easier to manage licenses from software vendors across multiple \n Amazon Web Services accounts and on-premises servers. ",
"smithy.api#title": "AWS License Manager",

"smithy.api#xmlNamespace": {
"uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
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"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
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"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
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"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
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"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
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"conditions": [
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"fn": "isSet",
"argv": [
{
"ref": "Endpoint"
}
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            "rules": [
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                    "argv": [
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                        "ref": "UseFIPS"
                      },
                      true
                    ]
                  }
                ],
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
                "type": "error"
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"conditions": [
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                    "fn": "booleanEquals",
                    "argv": [
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                        "ref": "UseDualStack"
                      },
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                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                "type": "error"
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                "conditions": [],
                "endpoint": {
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                    "ref": "Endpoint"
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                  "properties": {},
                  "headers": {}
                },
                "type": "endpoint"
              }
            ]
          },
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  ],
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          "argv": [
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            }
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          "assign": "PartitionResult"
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      "type": "tree",
      "rules": [
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              "argv": [
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"UseFIPS"
                },
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            {
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              "argv": [
                {
                  "ref": "UseDualStack"
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                                "argv": [
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                                    "ref": "PartitionResult"
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                                  "supportsFIPS"
                                ]

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                            ]
                          },
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                            "argv": [
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                              {
                                "fn": "getAttr",
                                "argv": [
                                  {
                                    "ref": "PartitionResult"
                                  },

    "supportsDualStack"
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                            ]
                          }
                        ],
                        "type": "tree",
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fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                              "properties": {},
                              "headers": {}
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                    },
                        "type": "endpoint"
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                "error": "FIPS and DualStack are enabled, but this partition does not support one or both",
                "type": "error"
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        "conditions": [
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        "argv": [
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                        "ref": "UseFIPS"
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                        "argv": [
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    {
                            "fn": "getAttr",
                            "argv": [
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                                    "ref": "PartitionResult"
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                                "supportsFIPS"
                            ]
                        }
                    ]
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"rules": [

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"headers": {}
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"type": "endpoint"
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]
},
{
"conditions": [],
"error": "FIPS is enabled but this
partition does not support FIPS",
"type": "error"
}
]
},
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
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"ref": "UseDualStack"
},
true
]
}
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"type": "tree",
"rules": [
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"conditions": [
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"argv": [
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"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
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"supportsDualStack"
]
}
]
}
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"type": "tree",
"rules": [
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"conditions": [],
"endpoint": {
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manager.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},
"headers": {}

},
"type": "endpoint"
}
]
},
{
"conditions": [],
"error": "DualStack is enabled but this partition does not support DualStack",
"type": "error"
}
]
},
{
"conditions": [],
"endpoint": {
"url": "https://license-manager.{Region}.{PartitionResult#dnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
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}
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},
{
"conditions": [],
"error": "Invalid Configuration: Missing Region",
"type": "error"
}
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"smithy.rules#endpointTests": {
  "testCases": [
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      "documentation": "For region af-south-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint":
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          "url": "https://license-manager.af-south-1.amazonaws.com"
        }
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      "params": {
        "Region": "af-south-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
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      "documentation": "For region ap-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-east-1.amazonaws.com"
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      "params": {
        "Region": "ap-east-1",
        "UseFIPS": false,
        "UseDualStack": false
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      "documentation": "For region ap-northeast-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-northeast-1.amazonaws.com"
        }
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      "params": {
        "Region": "ap-northeast-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
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      "documentation": "For region ap-northeast-2 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-northeast-2.amazonaws.com"
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```
            }
        },
        "params": {
            "Region": "ap-northeast-2",
            "UseFIPS": false,
            "UseDualStack": false
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        "documentation": "For region ap-northeast-3 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.ap-northeast-3.amazonaws.com"
            }
        },
        "params": {
            "Region": "ap-northeast-3",
            "UseFIPS": false,
            "UseDualStack": false
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        "documentation": "For region ap-south-1 with FIPS disabled and DualStack disabled",
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        "params": {
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            "UseFIPS": false,
            "UseDualStack": false
        }
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        "expect": {
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        },
        "params": {
            "Region": "ap-southeast-1",
            "UseFIPS": false,
            "UseDualStack": false
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          "expect": {
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              "url": "https://license-manager.ap-southeast-2.amazonaws.com"
            }
          },
          "params": {
            "Region": "ap-southeast-2",
            "UseFIPS": false,
            "UseDualStack": false
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        },
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"documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.ap-southeast-3.amazonaws.com"
            }
          },
          "params": {
            "Region": "ap-southeast-3",
            "UseFIPS": false,
            "UseDualStack": false
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          "documentation": "For region ca-central-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
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            }
          },

         "params": {
            "Region": "ca-central-1",
            "UseFIPS": false,
            "UseDualStack": false
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          "documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.eu-central-1.amazonaws.com"
            }
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            },
            "params": {
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              "UseFIPS": false,
              "UseDualStack": false
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disabled and DualStack disabled",
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                "url": "https://license-manager.eu-north-1.amazonaws.com"
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            },
            "params": {
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              "UseFIPS": false,
              "UseDualStack": false
            }
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          {
            "documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
            "expect": {
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              }
            },
            "params": {
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"eu-south-1",
              "UseFIPS": false,
              "UseDualStack": false
            }
          },
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                "url": "https://license-manager.eu-west-1.amazonaws.com"
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            },
            "params": {
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              "UseFIPS": false,
              "UseDualStack": false
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          },
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{
  "documentation": "For region eu-west-2 with FIPS disabled and DualStack disabled",
  "expect": {

  "endpoint": {
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  "params": {
    "Region": "eu-west-2",
    "UseFIPS": false,
    "UseDualStack": false
  }
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{
  "documentation": "For region eu-west-3 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.eu-west-3.amazonaws.com"
    }
  },
  "params": {
    "Region": "eu-west-3",
    "UseFIPS": false,

"UseDualStack": false
  }
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  "documentation": "For region me-south-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.me-south-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "me-south-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
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  "documentation": "For region sa-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.sa-east-1.amazonaws.com"
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  },
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              "UseDualStack": false
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            "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager.us-east-1.amazonaws.com"
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            "params": {
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              "UseFIPS": false,
              "UseDualStack": false
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            "expect": {
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                "url": "https://license-manager-fips.us-east-1.amazonaws.com"
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            },
            "params": {
              "Region": "us-east-1",
              "UseFIPS": true,
              "UseDualStack": false
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            "documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager.us-east-2.amazonaws.com"
              }

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            "params": {
              "Region": "us-east-2",
              "UseFIPS": false,
              "UseDualStack": false
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"documentation": "For region us-east-2 with FIPS enabled and DualStack disabled",
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"params": {
"Region": "us-east-2",
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"UseDualStack": false
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"documentation": "For region
us-west-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-west-1.amazonaws.com"
}
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"params": {
"Region": "us-west-1",
"UseFIPS": false,
"UseDualStack": false
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"UseDualStack": false
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"params": {

"Region": "us-west-2",
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"UseDualStack": false
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"params": {
"Region": "us-west-2",
"UseFIPS": true,
"UseDualStack": false
}
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"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,

"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",

"expect": {
"endpoint": {
"url":
"https://license-manager.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
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"documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-northwest-1",
"UseFIPS": false,
"UseDualStack": false

}
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{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.cn-north-1.api.amazonwebservices.com.cn"
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"params": {
"Region": "cn-north-1",
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"UseDualStack": true
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{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
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"url": "https://license-manager-fips.cn-north-1.amazonaws.com.cn"
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"params": {
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            "UseFIPS": true,
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        }
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        "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
        "expect": {
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            }
        },
        "params": {
            "Region": "cn-north-1",
            "UseFIPS": false,
            "UseDualStack": true
        }
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{
        "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.us-gov-east-1.amazonaws.com"
            }
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        "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
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    {
        "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
            }
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        "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": true,
            "UseDualStack": false
        }
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    {
        "documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
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"url": "https://license-manager.us-gov-west-1.amazonaws.com"
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"params": {
"Region": "us-gov-west-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation":
"For region us-gov-west-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-gov-west-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-west-1",
"UseFIPS": true,
"UseDualStack": false
}
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}
},

"params": {
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"UseFIPS": true,
"UseDualStack": true
}
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{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": true

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            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack
disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
                }
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": true,
                 "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
                }
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": true,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
                "error": "DualStack is enabled
but this partition does not support DualStack"
            },
            "params": {
                "Region": "us-iso-east-1",
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"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},

{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
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"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
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{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
}
},

"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},

"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",

"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,

"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},

```
                {
                    "documentation": "For custom endpoint with fips disabled and dualstack enabled",
                    "expect": {
                        "error":
"Invalid Configuration: Dualstack and custom endpoint are not supported"
                    },
                    "params": {
                        "Region": "us-east-1",
                        "UseFIPS": false,
                        "UseDualStack": true,
                        "Endpoint": "https://example.com"
                    }
                },
                {
                    "documentation": "Missing region",
                    "expect": {
                        "error": "Invalid Configuration: Missing Region"
                    }
                }
            ],
            "version": "1.0"
        }
    }
},
"com.amazonaws.licensemanager#AcceptGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#AcceptGrantRequest"

},
    "output": {
        "target": "com.amazonaws.licensemanager#AcceptGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"

    }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Accepts the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant
ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
```

```
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#AccessDeniedException": {
        "type": "structure",
        "members": {
          "Message": {
            "target": "com.amazonaws.licensemanager#Message"
          }
        },
        "traits": {
          "aws.protocols#awsQueryError": {

"code": "ServiceAccessDenied",
            "httpResponseCode": 401
          },
          "smithy.api#documentation": "<p>Access to resource denied.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 401
        }
      },
      "com.amazonaws.licensemanager#ActivationOverrideBehavior": {
        "type": "enum",
        "members": {
          "DISTRIBUTED_GRANTS_ONLY": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "DISTRIBUTED_GRANTS_ONLY"
            }
          },
          "ALL_GRANTS_PERMITTED_BY_ISSUER": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "ALL_GRANTS_PERMITTED_BY_ISSUER"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#AllowedOperation": {

     "type": "enum",
        "members": {
          "CREATE_GRANT": {
            "target": "smithy.api#Unit",
```

```
            "traits": {
                "smithy.api#enumValue": "CreateGrant"
            }
        },
        "CHECKOUT_LICENSE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "CheckoutLicense"
            }
        },
        "CHECKOUT_BORROW_LICENSE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "CheckoutBorrowLicense"
            }
        },
        "CHECK_IN_LICENSE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "CheckInLicense"
            }
        },
        "EXTEND_CONSUMPTION_LICENSE":
{
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "ExtendConsumptionLicense"
            }
        },
        "LIST_PURCHASED_LICENSES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "ListPurchasedLicenses"
            }
        },
        "CREATE_TOKEN": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "CreateToken"
            }
        }
    }
},
"com.amazonaws.licensemanager#AllowedOperationList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#AllowedOperation"
    },
```

"traits": {
"smithy.api#length": {
"min": 1,
"max":
7
}
}
},
"com.amazonaws.licensemanager#Arn": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 2048
},
"smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
}
},
"com.amazonaws.licensemanager#ArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
}
},
"com.amazonaws.licensemanager#AuthorizationException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError":
{
"code": "AuthorizationFailure",
"httpResponseCode": 403
},
"smithy.api#documentation": " The Amazon Web Services user account does not have permission to perform the action. Check the IAM\n policy associated with this account. ",
"smithy.api#error": "client",
"smithy.api#httpError": 403
}
},
"com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
"type": "structure",
"members": {
"LastRunTime": {

```
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Time that automated discovery last ran.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes automated discovery.</p>"
    }
},

"com.amazonaws.licensemanager#Boolean": {
    "type": "boolean",
    "traits": {
        "smithy.api#default": false
    }
},
"com.amazonaws.licensemanager#BorrowConfiguration": {
    "type": "structure",
    "members": {
        "AllowEarlyCheckIn": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Indicates whether early check-ins are allowed.</p>",
                "smithy.api#required": {}
            }
        },
        "MaxTimeToLiveInMinutes": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum time for the borrow configuration, in minutes.</p>",
                "smithy.api#required": {}
            }
        }

},
    "traits": {
        "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
    }
},
"com.amazonaws.licensemanager#BoxBoolean": {
    "type": "boolean"
},
"com.amazonaws.licensemanager#BoxInteger": {
    "type": "integer"
},
"com.amazonaws.licensemanager#BoxLong": {
    "type": "long"
```

```
    },
    "com.amazonaws.licensemanager#CheckInLicense": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"

    },
        {
          "target": "com.amazonaws.licensemanager#ConflictException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target": "com.amazonaws.licensemanager#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Checks in the specified license. Check in a license when it is no longer
in use.</p>"
      }
    },
    "com.amazonaws.licensemanager#CheckInLicenseRequest":
 {
      "type": "structure",
      "members": {
        "LicenseConsumptionToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
```

```
                "smithy.api#documentation": "<p>License consumption token.</p>",
                "smithy.api#required": {}
            }
        },
        "Beneficiary": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License beneficiary.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CheckInLicenseResponse": {
    "type": "structure",
    "members": {},
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CheckoutBorrowLicense":
{
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
        },
        {
```

"target":
"com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks out the specified license for offline use. "
}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
"type": "structure",
"members":
{
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The license must
use the borrow consumption configuration. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " License entitlements. Partial checkouts are not supported. ",
"smithy.api#required": {}
}
},
"DigitalSignatureMethod": {
"target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
"traits": {
"smithy.api#documentation": " Digital signature method. The possible
value is JSON Web Signature (JWS) algorithm PS384.\n For more information, see <a
href=\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital Signature with RSASSA-PSS. ",

"smithy.api#required": {}
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about constraints. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation":
" Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},
"EntitlementsAllowed":
{
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " Allowed license entitlements. "

```
            }
          },
          "NodeId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Node ID.</p>"
            }
          },
          "SignedToken": {
            "target": "com.amazonaws.licensemanager#SignedToken",
            "traits": {
              "smithy.api#documentation": "<p>Signed token.</p>"
            }
          },
          "IssuedAt": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Date and time at which the license checkout
is issued.</p>"
            }
          },
          "Expiration": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
            }
          },
          "CheckoutMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
              "smithy.api#documentation": "<p>Information about constraints.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#CheckoutLicense": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
         },
        "errors": [
          {
```

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks out the specified license. \n <note>\n If the account that created the license is the same that is performing the check out, you must\n specify the account as the beneficiary. \n </note>"
}
},
"com.amazonaws.licensemanager#CheckoutLicenseRequest": {
"type": "structure",
"members": {
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. ",
"smithy.api#required": {}
}
},

"CheckoutType": {
"target": "com.amazonaws.licensemanager#CheckoutType",
"traits": {
"smithy.api#documentation": " Checkout type. ",
"smithy.api#required": {}
}
},
"KeyFingerprint": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Key fingerprint identifying the license. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " License entitlements. ",

"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
}
},
"traits": {

"smithy.api#input": {}
}
},

```
    "com.amazonaws.licensemanager#CheckoutLicenseResponse": {
      "type": "structure",
      "members": {
        "CheckoutType": {
          "target": "com.amazonaws.licensemanager#CheckoutType",
          "traits": {
            "smithy.api#documentation": "<p>Checkout type.</p>"
          }
        },
        "LicenseConsumptionToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License consumption token.</p>"
          }
        },
        "EntitlementsAllowed": {
          "target": "com.amazonaws.licensemanager#EntitlementDataList",
          "traits": {
            "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
          }
        },
         "SignedToken": {
          "target": "com.amazonaws.licensemanager#SignedToken",
          "traits": {
            "smithy.api#documentation": "<p>Signed token.</p>"
          }
        },
        "NodeId": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Node ID.</p>"
          }
        },
        "IssuedAt": {
          "target": "com.amazonaws.licensemanager#ISO8601DateTime",
          "traits": {
            "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
          }
        },
        "Expiration": {
          "target": "com.amazonaws.licensemanager#ISO8601DateTime",
          "traits": {
            "smithy.api#documentation": "<p>Date and
time at which the license checkout expires.</p>"
          }
        },
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#String",
```

```
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the checkout license.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CheckoutType": {
    "type": "enum",
    "members": {
        "PROVISIONAL": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PROVISIONAL"
            }
        },
        "PERPETUAL": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PERPETUAL"
            }
        }
    }
},
"com.amazonaws.licensemanager#ClientRequestToken": {
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max": 36
        }
    }
},
"com.amazonaws.licensemanager#ClientToken": {
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 2048
        },
        "smithy.api#pattern": "^\\S+$"
    }
},
"com.amazonaws.licensemanager#ConflictException": {
    "type": "structure",
    "members": {
```

```
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "ConflictException",
                "httpResponseCode":
 409
            },
            "smithy.api#documentation": "<p>There was a conflict processing the request. Try your request
again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 409
        }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummary": {
        "type": "structure",
        "members": {
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
                }
            },
            "ConsumedLicenses": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
                }
            }
        },

 "traits": {
            "smithy.api#documentation": "<p>Details about license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
        }
    },
    "com.amazonaws.licensemanager#ConsumptionConfiguration": {
        "type": "structure",
        "members": {
            "RenewType": {
                "target": "com.amazonaws.licensemanager#RenewType",
```

```
            "traits": {
                "smithy.api#documentation": "<p>Renewal frequency.</p>"
            }
        },
        "ProvisionalConfiguration": {
            "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
             }
        },
        "BorrowConfiguration": {
            "target": "com.amazonaws.licensemanager#BorrowConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
    }
},
"com.amazonaws.licensemanager#CreateGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target":
"com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a grant for the specified license. A grant shares the use of
license\n        entitlements with a specific Amazon Web Services account, an organization, or an\n
organizational unit (OU). For more
 information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-
licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantRequest": {
        "type": "structure",
        "members": {
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>",
                    "smithy.api#required": {}

    }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Principals": {
                "target": "com.amazonaws.licensemanager#PrincipalArnList",
                "traits": {
                    "smithy.api#documentation": "<p>The grant principals. You can specify one of the following as an
Amazon Resource Name\n        (ARN):</p>\n        <ul>\n            <li>\n                <p>An Amazon Web Services
account, which includes only the account specified.</p>\n            </li>\n        </ul>\n        <ul>\n            <li>\n
    <p>An organizational unit (OU), which includes all accounts in the OU.</p>\n            </li>\n        </ul>\n
<ul>\n
```

```
<li>\n            <p>An organization, which will include all accounts across your organization.</p>\n
</li>\n        </ul>",
                "smithy.api#required": {}
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "AllowedOperations": {
            "target": "com.amazonaws.licensemanager#AllowedOperationList",
            "traits": {
                "smithy.api#documentation": "<p>Allowed operations for the grant.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},

"com.amazonaws.licensemanager#CreateGrantResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    },
    "traits": {
```

"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateGrantVersion":
{
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a new version of the specified grant. For more information, see\n Granted licenses in License Manager in the License Manager User Guide. "
}
},
"com.amazonaws.licensemanager#CreateGrantVersionRequest": {
"type": "structure",
"members": {
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the

idempotency of the request. ",

"smithy.api#required": {}
}
},
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations for the grant. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the grant. "
}
},
"Options": {
"target": "com.amazonaws.licensemanager#Options",
"traits": {
"smithy.api#documentation": " The options specified for the grant. "
}
}

```
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#CreateGrantVersionResponse": {
        "type": "structure",
        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": "<p>Grant status.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>New version of the grant.</p>"
            }
          }
        },
        "traits":
{
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicense": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
```

```
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a license.</p>"
    }
},
"com.amazonaws.licensemanager#CreateLicenseConfiguration": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
```

"smithy.api#documentation": " Creates a license configuration. \n A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), license affinity to host (how long a \n license must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension used to track the license inventory. ",
"smithy.api#required": {}
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether hard or soft license enforcement is used. Exceeding a hard limit\n blocks the launch of new instances. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {

"smithy.api#documentation": " License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules \n vary by dimension, as follows. \n \n \n \n <code>Cores</code> dimension: <code>allowedTenancy</code> |\n <code>licenseAffinityToHost</code> |\n <code>maximumCores</code> | <code>minimumCores</code>\n \n \n \n \n <code>Instances</code> dimension: <code>allowedTenancy</code> | \n <code>maximumCores</code> | <code>minimumCores</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code> |\n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n
\n <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n <code>licenseAffinityToHost</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code>\n \n \n \n \n <code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n <code>honorVcpuOptimization</code> | \n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n The unit for <code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n <code>True</code> and <code>False</code>. "
}
},

"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the license configuration. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationResponse":

```
{
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
             },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new license conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest": {
        "type": "structure",
```

"members": {
"ResourceArn": {

"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource you are converting the license type for. ",
"smithy.api#required": {}
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information that identifies the license type you are converting from. \n\n For the structure of the source license, see Convert a license type using the CLI in the License Manager User Guide. ",
"smithy.api#required": {}
}
},
"DestinationLicenseContext":
{
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information that identifies the license type you are converting to. For the structure of the destination license, see Convert a license type using the CLI in the License Manager User Guide. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",

"traits": {
"smithy.api#documentation": " The ID of the created license type conversion task. "
}
}
},
"traits": {

```
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
             },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "ReportGeneratorName":
{
                "target": "com.amazonaws.licensemanager#ReportGeneratorName",
                "traits": {
```

"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports to generate. The following report types an be generated: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}

}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " Defines the type of license configuration the report generator tracks. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",

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            "traits": {
                "smithy.api#documentation": "<p>Tags to add to the report generator.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
    "type": "structure",
    "members": {
        "LicenseManagerReportGeneratorArn":
{
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the new report
generator.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseRequest": {
    "type": "structure",
    "members": {
        "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License name.</p>",
                "smithy.api#required": {}
            }
        },
        "ProductName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product
name.</p>",
                "smithy.api#required": {}
            }
        },
        "ProductSKU": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product SKU.</p>",
                "smithy.api#required": {}
```

```
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#Issuer",
            "traits": {
                "smithy.api#documentation": "<p>License issuer.</p>",
                "smithy.api#required": {}
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region for the license.</p>",
                "smithy.api#required": {}

  }
        },
        "Validity": {
            "target": "com.amazonaws.licensemanager#DatetimeRange",
            "traits": {
                "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
                "smithy.api#required": {}
            }
        },
        "Entitlements": {
            "target": "com.amazonaws.licensemanager#EntitlementList",
            "traits": {
                "smithy.api#documentation": "<p>License entitlements.</p>",
                "smithy.api#required": {}
            }
        },
        "Beneficiary": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License beneficiary.</p>",
                "smithy.api#required": {}
            }
         },
        "ConsumptionConfiguration": {
            "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional
configuration for workloads\n        running with continuous connectivity. Choose a borrow configuration for
workloads with offline\n        usage.</p>",
                "smithy.api#required": {}
            }
        },
```

```
            "LicenseMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation":
"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseStatus",
                "traits": {
                    "smithy.api#documentation": "<p>License status.</p>"
                }
            },
            "Version": {
                 "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersion": {
        "type": "operation",
        "input": {
```

"target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a new version of the specified license. "
}
},
"com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target":
"com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " License name. ",
"smithy.api#required": {}
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. ",
"smithy.api#required": {}
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#Issuer",
"traits":
{
"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the license. ",
"smithy.api#required": {}
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},

"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},

"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. "
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",

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            "traits": {
                "smithy.api#documentation": "<p>New version of the license.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output":
{}
    }
},
"com.amazonaws.licensemanager#CreateToken": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateTokenRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateTokenResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },

{
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
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"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a long-lived token. \n A refresh token is a JWT token used to get an access token. With an access token,\n you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n call License Manager to manage the specified license. "
}
},
"com.amazonaws.licensemanager#CreateTokenRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits":
{
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n JWT token. ",
"smithy.api#required": {}
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n License Manager does not check whether the roles are in use. "
}
},
"ExpirationInDays": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Token expiration, in days, counted from token creation. The default is 365 days. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller to be included in the JWT token. The data is mapped\n to the amr claim of the JWT token. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Idempotency token, valid for 10 minutes. ",
"smithy.api#required": {}
}

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        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CreateTokenResponse": {
    "type": "structure",
    "members": {
        "TokenId": {
            "target": "com.amazonaws.licensemanager#String",

            "traits": {
                "smithy.api#documentation": "<p>Token ID.</p>"
            }
        },
        "TokenType": {
            "target": "com.amazonaws.licensemanager#TokenType",
            "traits": {
                "smithy.api#documentation": "<p>Token type.</p>"
            }
        },
        "Token": {
            "target": "com.amazonaws.licensemanager#TokenString",
            "traits": {
                "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#DateTime": {
    "type": "timestamp"
},
"com.amazonaws.licensemanager#DatetimeRange": {
    "type": "structure",
    "members": {
        "Begin": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Start of the time range.</p>",
                "smithy.api#required": {}
            }
        },
        "End": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
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                "traits": {
                    "smithy.api#documentation": "<p>End of the time range.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC format.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes
the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteGrantRequest": {
        "type": "structure",
        "members": {
```

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            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "StatusReason": {
                "target": "com.amazonaws.licensemanager#StatusReasonMessage",
                "traits": {
                    "smithy.api#documentation": "<p>The Status reason for the delete request.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the
grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
"<p>Grant version.</p>"
                }
            }
```

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        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"

},
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
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        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
        },

    "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified license configuration.</p>\n        <p>You cannot
delete a license configuration that is in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
        "type": "structure",
        "members":
{
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
```

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        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
             }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified report generator.</p>\n        <p>This action
deletes the report generator, which stops it from generating future reports.\n        The action cannot be reversed. It
has no effect on the previous reports from this generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
```

"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to be deleted. ",
"smithy.api#required": {}
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. ",
"smithy.api#required":
{}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseResponse": {
"type": "structure",
"members": {
"Status": {
"target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
"traits": {
"smithy.api#documentation": " License status. "

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            }
        },
        "DeletionDate": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Date when the license is deleted.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#DeleteToken": {
    "type": "operation",
     "input": {
        "target": "com.amazonaws.licensemanager#DeleteTokenRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#DeleteTokenResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },

{
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
```

```
    }
},
"com.amazonaws.licensemanager#DeleteTokenRequest": {
    "type": "structure",
    "members": {
        "TokenId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token ID.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#DeleteTokenResponse": {
    "type": "structure",
    "members": {},
    "traits": {
        "smithy.api#output": {}

  }
},
"com.amazonaws.licensemanager#DigitalSignatureMethod": {
    "type": "enum",
    "members": {
        "JWT_PS384": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "JWT_PS384"
            }
        }
    }
},
"com.amazonaws.licensemanager#Entitlement": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement name.</p>",
                "smithy.api#required": {}
            }
        },
        "Value": {
            "target": "com.amazonaws.licensemanager#String",
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"traits": {
"smithy.api#documentation": " Entitlement resource. Use only
if the unit is None. "
}
},
"MaxCount": {
"target": "com.amazonaws.licensemanager#Long",
"traits": {
"smithy.api#documentation": " Maximum entitlement count. Use if the unit is not None. "
}
},
"Overage": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether overages are allowed. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementUnit",
"traits": {
"smithy.api#documentation": " Entitlement unit. ",
"smithy.api#required": {}
}
},
"AllowCheckIn": {
"target":
"com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether check-ins are allowed. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a resource entitled for use with a license. "
}
},
"com.amazonaws.licensemanager#EntitlementData": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement data name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Entitlement
data value. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementDataUnit",
"traits": {
"smithy.api#documentation": " Entitlement data unit. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Data associated with an entitlement resource. "
}
},
"com.amazonaws.licensemanager#EntitlementDataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#EntitlementData"
}
},
"com.amazonaws.licensemanager#EntitlementDataUnit": {
"type": "enum",
"members": {
"COUNT": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Count"
}
},
"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"SECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Seconds"
}
},
"MICROSECONDS": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Microseconds"
}
},
"MILLISECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Milliseconds"
}
},
"BYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes"
}
},
"KILOBYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes"
}
},
"MEGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes"
}
},
"GIGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes"
}
},
"TERABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabytes"
}
},
"BITS":
{
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits"
}
},
"KILOBITS": {
"target": "smithy.api#Unit",

"traits": {
"smithy.api#enumValue": "Kilobits"
}
},
"MEGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits"
}
},
"GIGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits"
}
},
"TERABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits"

}
},
"PERCENT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Percent"
}
},
"BYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes/Second"
}
},
"KILOBYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes/Second"
}
},
"MEGABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes/Second"
}
},
"GIGABYTES_PER_SECOND": {

"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes/Second"
}
},
"TERABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabytes/Second"
}
},
"BITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits/Second"
}
},
"KILOBITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobits/Second"
}
},
"MEGABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue":
"Megabits/Second"
}
},
"GIGABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits/Second"
}
},
"TERABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits/Second"
}
},
"COUNT_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Count/Second"
}
}

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        }
    },
    "com.amazonaws.licensemanager#EntitlementList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Entitlement"
        }
    },
    "com.amazonaws.licensemanager#EntitlementNotAllowedException":
{
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The entitlement is not allowed.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#EntitlementUnit": {
        "type": "enum",
        "members": {
            "COUNT": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Count"
                }
            },
            "NONE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "None"
                }
            },
            "SECONDS":
{
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Seconds"
                }
            },
            "MICROSECONDS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Microseconds"
```

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    }
},
"MILLISECONDS": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Milliseconds"
    }
},
"BYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Bytes"
    }
},
"KILOBYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Kilobytes"
     }
},
"MEGABYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Megabytes"
    }
},
"GIGABYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Gigabytes"
    }
},
"TERABYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Terabytes"
    }
},
"BITS": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Bits"
    }
},
"KILOBITS": {
    "target": "smithy.api#Unit",
    "traits": {
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"smithy.api#enumValue": "Kilobits"
}
},
"MEGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits"
}
},
"GIGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits"
}
},
"TERABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits"
}
},
"PERCENT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Percent"
}
},
"BYTES_PER_SECOND": {
"target":
"smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes/Second"
}
},
"KILOBYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes/Second"
}
},
"MEGABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes/Second"
}
},
"GIGABYTES_PER_SECOND": {
"target": "smithy.api#Unit",

"traits": {
"smithy.api#enumValue": "Gigabytes/Second"
}
},
"TERABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Terabytes/Second"
}
},
"BITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits/Second"
}
},
"KILOBITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobits/Second"
}
},
"MEGABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits/Second"
}
},
"GIGABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits/Second"
}
},

"TERABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits/Second"
}
},
"COUNT_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Count/Second"
}
}

```
        }
    },
    "com.amazonaws.licensemanager#EntitlementUsage": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement usage name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ConsumedValue": {
                "target": "com.amazonaws.licensemanager#String",

            "traits": {
                    "smithy.api#documentation": "<p>Resource usage consumed.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxCount": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
                }
            },
            "Unit": {
                "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementUsageList":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#EntitlementUsage"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumption": {
        "type": "operation",
        "input": {
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"target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Extends the expiration date for license consumption. "
}
},
"com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. ",
"smithy.api#required": {}

}
},
"DryRun": {
"target": "com.amazonaws.licensemanager#Boolean",
"traits": {
"smithy.api#default": false,
"smithy.api#documentation": " Checks whether you have the required permissions for the action,

without actually making the request. Provides an error response if you do not have the required permissions. "
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
        "type": "structure",
        "members": {
          "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": " License consumption token. "
            }
          },

          "Expiration": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
              "smithy.api#documentation": " Date and time at which the license consumption expires. "
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#FailedDependencyException": {
        "type": "structure",
        "members": {
          "Message": {
            "target": "com.amazonaws.licensemanager#Message"
          },
          "ErrorCode": {
            "target": "com.amazonaws.licensemanager#String"
          }
        },
        "traits": {
          "aws.protocols#awsQueryError": {
            "code": "FailedDependency",
            "httpResponseCode": 424
          },
          "smithy.api#documentation":
" A dependency required to run the API is missing. ",
          "smithy.api#error": "client",
          "smithy.api#httpError": 424

```
        }
    },
    "com.amazonaws.licensemanager#Filter": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#FilterName",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the filter. Filter names are case-sensitive.</p>"
                }
            },
            "Values": {
                "target": "com.amazonaws.licensemanager#FilterValues",
                "traits": {
                    "smithy.api#documentation": "<p>The value of the filter, which is case-sensitive. You can only
specify one value for the filter.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A filter
 name and value pair that is used to return more specific results from a\n        describe operation. Filters can be used
to match a set of resources by specific criteria,\n        such as tags, attributes, or IDs.</p>"
        }
    },
    "com.amazonaws.licensemanager#FilterLimitExceededException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "FilterLimitExceeded",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>The request uses too many filters or too many filter values.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#FilterList": {
        "type": "list",
         "member": {
            "target": "com.amazonaws.licensemanager#Filter"
        }
    },
```

```
"com.amazonaws.licensemanager#FilterName": {
    "type": "string"
},
"com.amazonaws.licensemanager#FilterValue": {
    "type": "string"
},
"com.amazonaws.licensemanager#FilterValues": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#FilterValue",
        "traits": {
            "smithy.api#xmlName": "item"
        }
    }
},
"com.amazonaws.licensemanager#Filters": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Filter",
        "traits": {
            "smithy.api#xmlName": "item"
        }
    }
},
"com.amazonaws.licensemanager#GetAccessToken": {
    "type": "operation",
    "input": {
         "target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
```

```
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets a temporary access token to use with
AssumeRoleWithWebIdentity. Access
 tokens\n        are valid for one hour.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenRequest": {
        "type": "structure",
        "members": {
            "Token": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>",
                    "smithy.api#required": {}
                }
            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Token properties to validate against those present in the JWT
token.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenResponse":
 {
        "type": "structure",
        "members": {
            "AccessToken": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Temporary access token.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetGrantRequest"
```

```
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"

   },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
```

```
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
        "Grant": {
            "target": "com.amazonaws.licensemanager#Grant",
            "traits": {
                "smithy.api#documentation": "<p>Grant details.</p>"
            }
        }
    },
    "traits": {

"smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#GetLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"

 },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
```

```
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
             },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the specified license
configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits":
```

```
{
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurationId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Unique ID for the license configuration.</p>"
                }
            },
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
                }
            },
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the license configuration.</p>"
                 }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Description of the license configuration.</p>"
                }
            },
            "LicenseCountingType": {
                "target": "com.amazonaws.licensemanager#LicenseCountingType",
                "traits": {
                    "smithy.api#documentation": "<p>Dimension for which the licenses are counted.</p>"
                }
            },
            "LicenseRules": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>License rules.</p>"
                }
            },
            "LicenseCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",

               "traits": {
                    "smithy.api#documentation": "<p>Number of available licenses.</p>"
```

```
            }
        },
        "LicenseCountHardLimit": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Sets the number of available licenses as a hard limit.</p>"
            }
        },
        "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses assigned to resources.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License configuration status.</p>"
            }

    },
        "OwnerAccountId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Account ID of the owner of the license configuration.</p>"
            }
        },
        "ConsumedLicenseSummaryList": {
            "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
            "traits": {
                "smithy.api#documentation": "<p>Summaries of the licenses consumed by resources.</p>"
            }
        },
        "ManagedResourceSummaryList": {
            "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
            "traits": {
                "smithy.api#documentation": "<p>Summaries of the managed resources.</p>"
            }
        },
        "Tags": {
            "target": "com.amazonaws.licensemanager#TagList",
             "traits": {
                "smithy.api#documentation": "<p>Tags for the license configuration.</p>"
            }
        },
        "ProductInformationList": {
            "target": "com.amazonaws.licensemanager#ProductInformationList",
            "traits": {
```

"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When
true, disassociates a resource when software is uninstalled. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTask": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {

"smithy.api#documentation": " Gets information about the specified license type conversion task. "
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task to retrieve information on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the resources the license conversion task is associated with. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted to. "
}
},

"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
"traits": {
"smithy.api#documentation": " Status of the license type conversion task. "
}
},

"StartTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time at which the license type conversion task was started . "
}
},
"LicenseConversionTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Amount of time to complete the license type conversion. "
}
},
"EndTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time at which the license type conversion task was
completed. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGenerator":
{
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets information about the specified report generator. "
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. ",
"smithy.api#required":
{}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {

"ReportGenerator": {
"target": "com.amazonaws.licensemanager#ReportGenerator",
"traits": {
"smithy.api#documentation": " A report generator that creates periodic reports about your license configurations. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseResponse": {
"type": "structure",
"members": {
"License": {
"target": "com.amazonaws.licensemanager#License",
"traits": {
"smithy.api#documentation": " License details. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},

"com.amazonaws.licensemanager#GetLicenseUsage": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the usage of the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseUsageRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}

```
    },
    "com.amazonaws.licensemanager#GetLicenseUsageResponse": {
      "type": "structure",
      "members": {
        "LicenseUsage": {
          "target":
"com.amazonaws.licensemanager#LicenseUsage",
          "traits": {
            "smithy.api#documentation": "<p>License usage details.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#GetServiceSettings": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
         },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Gets the License Manager settings for the current Region.</p>"
      }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsRequest": {
      "type": "structure",
      "members": {},
      "traits": {
        "smithy.api#input": {}
      }
```

```
    },
    "com.amazonaws.licensemanager#GetServiceSettingsResponse": {
      "type": "structure",
      "members": {
        "S3BucketArn": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Regional S3 bucket path for storing reports, license trail event data,
discovery data,\n        and so on.</p>"

  }
        },
        "SnsTopicArn": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>SNS topic configured to receive notifications from License
Manager.</p>"
          }
        },
        "OrganizationConfiguration": {
          "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
          "traits": {
            "smithy.api#documentation": "<p>Indicates whether Organizations is integrated with License
Manager for\n        cross-account discovery.</p>"
          }
        },
        "EnableCrossAccountsDiscovery": {
          "target": "com.amazonaws.licensemanager#BoxBoolean",
          "traits": {
            "smithy.api#documentation": "<p>Indicates whether cross-account discovery is enabled.</p>"
          }

      },
        "LicenseManagerResourceShareArn": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource share. The License
Manager management account \n        provides member accounts with access to this share.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#Grant": {
      "type": "structure",
      "members": {
```

"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"GrantName": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}
}
},
"ParentArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Parent ARN. ",
"smithy.api#required": {}
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. ",
"smithy.api#required": {}
}
},
"GranteePrincipalArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {

"smithy.api#documentation": " The grantee principal ARN. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"GrantStatus": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. ",

```
                "smithy.api#required": {}
            }
        },
        "StatusReason": {
            "target": "com.amazonaws.licensemanager#StatusReasonMessage",
            "traits": {
                "smithy.api#documentation": "<p>Grant status reason.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>",
                "smithy.api#required": {}
            }
        },
        "GrantedOperations": {
            "target": "com.amazonaws.licensemanager#AllowedOperationList",
            "traits": {
                "smithy.api#documentation": "<p>Granted operations.</p>",
                "smithy.api#required": {}
            }
        },
        "Options": {
            "target": "com.amazonaws.licensemanager#Options",
            "traits": {
                "smithy.api#documentation": "<p>The options specified for the grant.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation":
"<p>Describes a grant.</p>"
    }
},
"com.amazonaws.licensemanager#GrantList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Grant"
    }
},
"com.amazonaws.licensemanager#GrantStatus": {
    "type": "enum",
    "members": {
        "PENDING_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_WORKFLOW"
```

```
            }
        },
        "PENDING_ACCEPT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_ACCEPT"
            }
        },
        "REJECTED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "REJECTED"

        }
        },
        "ACTIVE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "ACTIVE"
            }
        },
        "FAILED_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "FAILED_WORKFLOW"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        },
        "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DISABLED": {
            "target": "smithy.api#Unit",
            "traits":
{
                "smithy.api#enumValue": "DISABLED"
            }
        },
        "WORKFLOW_COMPLETED": {
            "target": "smithy.api#Unit",
```

```
            "traits": {
                "smithy.api#enumValue": "WORKFLOW_COMPLETED"
            }
        }
    }
  },
  "com.amazonaws.licensemanager#GrantedLicense": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
        },
        "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License name.</p>"
            }

},
        "ProductName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product name.</p>"
            }
        },
        "ProductSKU": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product SKU.</p>"
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
                "smithy.api#documentation": "<p>Granted license issuer.</p>"
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region of the granted license.</p>"

         }
        },
        "Status": {
```

"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " Granted license status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the granted license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Granted license beneficiary. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Granted license metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Creation time of the granted license. "

}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Version of the granted license. "
}

```
            },
            "ReceivedMetadata": {
                "target": "com.amazonaws.licensemanager#ReceivedMetadata",
                "traits": {
                    "smithy.api#documentation": "<p>Granted license received metadata.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes a license that is granted to a grantee.</p>"
        }
    },
    "com.amazonaws.licensemanager#GrantedLicenseList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#GrantedLicense"
        }
    },
    "com.amazonaws.licensemanager#ISO8601DateTime":
{
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 50
            },
            "smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-
1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[ 0-3]|[0-1][0-9]):[0-5][0-9])+$"
        }
    },
    "com.amazonaws.licensemanager#Integer": {
        "type": "integer"
    },
    "com.amazonaws.licensemanager#InvalidParameterValueException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidParameterValueProvided",
                "httpResponseCode": 400
            },
            "smithy.api#documentation":
"<p>One or more parameter values are not valid.</p>",
            "smithy.api#error": "client",
```

"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#InvalidResourceStateException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidResourceState",
"httpResponseCode": 400
},
"smithy.api#documentation": " License Manager cannot allocate a license to a resource because of its state. \n For example, you cannot allocate a license to an instance in the process of shutting\n down. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},

"com.amazonaws.licensemanager#InventoryFilter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the filter. ",
"smithy.api#required": {}
}
},
"Condition": {
"target": "com.amazonaws.licensemanager#InventoryFilterCondition",
"traits": {
"smithy.api#documentation": " Condition of the filter. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Value of the filter. "
}
}

```
},
    "traits": {
      "smithy.api#documentation": "<p>An inventory filter.</p>"
    }
  },
  "com.amazonaws.licensemanager#InventoryFilterCondition": {
    "type": "enum",
    "members": {
      "EQUALS": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "EQUALS"
        }
      },
      "NOT_EQUALS": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "NOT_EQUALS"
        }
      },
      "BEGINS_WITH": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "BEGINS_WITH"
        }
      },
      "CONTAINS": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "CONTAINS"
        }
      }
    }
  },
  "com.amazonaws.licensemanager#InventoryFilterList": {
    "type": "list",
    "member": {
      "target": "com.amazonaws.licensemanager#InventoryFilter"
    }
  },
  "com.amazonaws.licensemanager#Issuer": {
    "type": "structure",
    "members": {
      "Name": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Issuer name.</p>",
          "smithy.api#required": {}
```

```
                }
            },
            "SignKey": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage
 of sign and verify, \n        and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about the issuer of a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#IssuerDetails": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Issuer name.</p>"
                }
            },
            "SignKey": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n        and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
                }
            },
            "KeyFingerprint": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Issuer key fingerprint.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details associated with the issuer of a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#License": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
```

"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " License name. "
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. "
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. "
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#IssuerDetails",
"traits": {
"smithy.api#documentation": " License issuer. "
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Home Region of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. "
}

```
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License beneficiary.</p>"
                }
            },
            "Entitlements": {

    "target": "com.amazonaws.licensemanager#EntitlementList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>"
                }
            },
            "ConsumptionConfiguration": {
                "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
                }
            },
            "LicenseMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>License metadata.</p>"
                }
            },
            "CreateTime": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>License
creation time.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Software license that is managed in License Manager.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfiguration": {
        "type": "structure",
        "members": {
            "LicenseConfigurationId": {
```

```
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
        "smithy.api#documentation": "<p>Unique ID of the license configuration.</p>"
    }
},
"LicenseConfigurationArn": {
    "target": "com.amazonaws.licensemanager#String",
     "traits": {
        "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    }
},
"Name": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
        "smithy.api#documentation": "<p>Name of the license configuration.</p>"
    }
},
"Description": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
        "smithy.api#documentation": "<p>Description of the license configuration.</p>"
    }
},
"LicenseCountingType": {
    "target": "com.amazonaws.licensemanager#LicenseCountingType",
    "traits": {
        "smithy.api#documentation": "<p>Dimension to use to track the license inventory.</p>"
     }
},
"LicenseRules": {
    "target": "com.amazonaws.licensemanager#StringList",
    "traits": {
        "smithy.api#documentation": "<p>License rules.</p>"
    }
},
"LicenseCount": {
    "target": "com.amazonaws.licensemanager#BoxLong",
    "traits": {
        "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
    }
},
"LicenseCountHardLimit": {
    "target": "com.amazonaws.licensemanager#BoxBoolean",
    "traits": {
        "smithy.api#documentation": "<p>Number of available licenses as a hard limit.</p>"
    }
},
"DisassociateWhenNotFound": {
```

"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the license configuration. "
}
},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the license configuration's owner. "

}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries for licenses consumed by various resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries for managed resources. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {

"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "

```
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A license configuration is an abstraction of a customer license
agreement that can be\n        consumed and enforced by License Manager. Components include specifications for
the license\n        type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n
Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n        must be associated with a
host), and the number of licenses purchased and used.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
        "type": "structure",
        "members": {
            "ResourceArn":
 {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Type of server resource.</p>"
                }
            },
            "ResourceOwnerId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the Amazon Web Services account that owns the resource
consuming licenses.</p>"
                }
            },
            "AssociationTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {

    "smithy.api#documentation": "<p>Time when the license configuration was associated with the resource.</p>"
                }
            },
            "AmiAssociationScope": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-
account</code>.</p>"
                }
            }
```

```
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes an association with a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationStatus": {
        "type": "enum",
        "members":
{
            "AVAILABLE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "AVAILABLE"
                }
            },
            "DISABLED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DISABLED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationUsage": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits":
{
                    "smithy.api#documentation": "<p>Type of resource.</p>"
                }
            },
            "ResourceStatus": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
```

"smithy.api#documentation": " Status of the resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the account that owns the resource. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was initially associated with the resource. "
}
},

"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about the usage of a resource associated with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
}
},
"com.amazonaws.licensemanager#LicenseConfigurations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfiguration"
}
},
"com.amazonaws.licensemanager#LicenseConversionContext": {

"type": "structure",
"members": {
"UsageOperation": {
"target": "com.amazonaws.licensemanager#UsageOperation",
"traits": {

"smithy.api#documentation": " The Usage operation value that corresponds to the license type you are converting your resource from. For more information about which platforms correspond to which usage operation values see Sample data: usage operation by platform\n \n "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTask": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {

"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " The ID of the license type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the resource associated with the license type\n conversion task. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted to. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
"traits": {
"smithy.api#documentation": " The status of the conversion task. "
}

```
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
                }
            },
            "StartTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation":
 "<p>The time the conversion task was started at.</p>"
                }
            },
            "LicenseConversionTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>The time the usage operation value of the resource was
changed.</p>"
                }
            },
            "EndTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>The time the conversion task was completed.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTaskId": {
        "type": "string",
        "traits": {

        "smithy.api#length": {
                "min": 0,
                "max": 50
            },
            "smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
        "type": "enum",
        "members": {
            "IN_PROGRESS": {
                "target": "smithy.api#Unit",
```

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            "traits": {
                "smithy.api#enumValue": "IN_PROGRESS"
            }
        },
        "SUCCEEDED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "SUCCEEDED"
            }
        },
        "FAILED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "FAILED"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseConversionTasks":
{
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#LicenseConversionTask"
    }
},
"com.amazonaws.licensemanager#LicenseCountingType": {
    "type": "enum",
    "members": {
        "VCPU": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "vCPU"
            }
        },
        "INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Instance"
            }
        },
        "CORE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Core"
            }
        },
        "SOCKET": {
            "target": "smithy.api#Unit",
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            "traits": {
                "smithy.api#enumValue": "Socket"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseDeletionStatus": {
    "type": "enum",
    "members": {
        "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#License"
    }
},
"com.amazonaws.licensemanager#LicenseOperationFailure": {

    "type": "structure",
    "members": {
        "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
        },
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Resource type.</p>"
            }
        },
        "ErrorMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

"smithy.api#documentation": " Error message. "
}
},
"FailureTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {

"smithy.api#documentation": " Failure time. "
}
},
"OperationName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the operation. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource. "
}
},
"OperationRequestedBy": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The requester is \"License Manager Automated Discovery\". "
}
},
"MetadataList": {

"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Reserved. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the failure of a license operation. "
}
},
"com.amazonaws.licensemanager#LicenseOperationFailureList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseOperationFailure"
}
},
"com.amazonaws.licensemanager#LicenseSpecification": {

"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",

"smithy.api#required": {}
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Details for associating a license configuration with a resource. "
}
},
"com.amazonaws.licensemanager#LicenseSpecifications": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseSpecification"
}
},
"com.amazonaws.licensemanager#LicenseStatus": {
"type": "enum",
"members": {
"AVAILABLE": {
"target": "smithy.api#Unit",

"traits": {
"smithy.api#enumValue": "AVAILABLE"
}
},
"PENDING_AVAILABLE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_AVAILABLE"
}
},
"DEACTIVATED": {
"target": "smithy.api#Unit",
"traits": {

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            "smithy.api#enumValue": "DEACTIVATED"
          }
        },
        "SUSPENDED": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "SUSPENDED"
          }
        },
        "EXPIRED": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "EXPIRED"
          }
        },

      "PENDING_DELETE": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "PENDING_DELETE"
          }
        },
        "DELETED": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "DELETED"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#LicenseUsage": {
      "type": "structure",
      "members": {
        "EntitlementUsages": {
          "target": "com.amazonaws.licensemanager#EntitlementUsageList",
          "traits": {
            "smithy.api#documentation": "<p>License entitlement usages.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Describes the entitlement usage associated with a license.</p>"

      }
    },
    "com.amazonaws.licensemanager#LicenseUsageException": {
      "type": "structure",
      "members": {
```

"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "LicenseUsageFailure",
"httpResponseCode": 412
},
"smithy.api#documentation": " You do not have enough licenses available to support a new resource launch. ",
"smithy.api#error": "client",
"smithy.api#httpError": 412
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the resource associations for the specified license configuration. \n Resource associations need not consume licenses from a license configuration. \n For example, an AMI or a stopped instance might not consume a license (depending on \n

the license rules). "
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results
to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationAssociations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
"traits": {
"smithy.api#documentation": " Information about the associations for the license
configuration. "
}
},
"NextToken": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}

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    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListDistributedGrants": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
         },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the grants distributed for the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
    "type": "structure",
    "members": {
        "GrantArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
            "traits": {
```

"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranteePrincipalARN</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",

"traits": {
"smithy.api#documentation": " Distributed grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}

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        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
        },
        "errors": [
            {

"target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configuration operations that failed.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
```

"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse": {
"type": "structure",
"members": {
"LicenseOperationFailureList": {
"target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
"traits": {
"smithy.api#documentation": " License configuration operations that failed. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConfigurations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
},

"output": {
"target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

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            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configurations
for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
configurations.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next
set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
```

operators\n are supported: \n \n \n \n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n
\n <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license
enforcement is used. \n Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>. \n
\n \n \n <code>usagelimitExceeded</code> - A Boolean value that
indicates whether the available licenses have been exceeded. \n Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
"type": "structure",
"members": {
"LicenseConfigurations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurations",
"traits": {
"smithy.api#documentation": " Information about the license configurations. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasks": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license type conversion tasks for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
"type": "structure",
"members": {
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {

"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " \n Filters to scope the results. Valid filters are
<code>ResourceArns</code> and <code>Status</code>.\n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {

"type": "structure",
"members": {
"LicenseConversionTasks": {
"target": "com.amazonaws.licensemanager#LicenseConversionTasks",
"traits": {
"smithy.api#documentation": " Information about the license configuration tasks for your account. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},

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            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the report generators for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest":
{
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:
</p>\n        <ul>\n            <li>\n                <p>\n                <code>LicenseConfigurationArn</code>\n
</p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits":
{
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
        "type": "structure",
        "members": {
            "ReportGenerators": {
                "target": "com.amazonaws.licensemanager#ReportGeneratorList",
                "traits": {
                    "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
```

configurations. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}

}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Describes the license configurations for the specified resource. "
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a resource that has an associated license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {

"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
"type": "structure",
"members": {
"LicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " License configurations associated with a resource. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
"type": "operation",
"input": {

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        "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists all versions of the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
```

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        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
        "type": "structure",
        "members": {
            "Licenses": {
                "target": "com.amazonaws.licensemanager#LicenseList",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
                }
            },

"NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenses": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicensesRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicensesResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
             },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
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                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the licenses for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicensesRequest": {
        "type": "structure",
        "members": {
            "LicenseArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
                }
            },

     "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>Beneficiary</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                <code>ProductSKU</code>\n                </p>\n            </li>\n
    <li>\n                <p>\n                <code>Fingerprint</code>\n                </p>\n            </li>\n            <li>\n
<p>\n                <code>Status</code>\n                </p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token
 for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
```

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  "com.amazonaws.licensemanager#ListLicensesResponse": {
    "type": "structure",
    "members": {
      "Licenses": {
        "target": "com.amazonaws.licensemanager#LicenseList",
        "traits": {
          "smithy.api#documentation": "<p>License details.</p>"
        }
      },
      "NextToken": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {

"smithy.api#documentation": "<p>Token for the next set of results.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#ListReceivedGrants": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
       },
      {
        "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
      },
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{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists grants that are received. Received grants are grants created while specifying the\n recipient as this Amazon Web Services account, your organization, or an organizational unit\n (OU) to which this member account belongs. "
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganization": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the grants received for all accounts in the organization. "
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest": {
"type": "structure",

"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the received license. ",
"smithy.api#required": {}
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ParentArn</code>\n \n \n \n \n <code>GranteePrincipalArn</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Lists the grants the organization has received. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "

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            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
        "type": "structure",
        "members": {
          "GrantArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
             "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
            }
          },
          "Filters": {
            "target": "com.amazonaws.licensemanager#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n          <li>\n            <p>\n              <code>ProductSKU</code>\n            </p>\n
        </li>\n          <li>\n            <p>\n              <code>LicenseIssuerName</code>\n            </p>\n
</li>\n          <li>\n            <p>\n              <code>LicenseArn</code>\n            </p>\n          </li>\n
<li>\n            <p>\n              <code>GrantStatus</code>\n            </p>\n          </li>\n          <li>\n
<p>\n
        <code>GranterAccountId</code>\n            </p>\n          </li>\n        </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
        "type": "structure",
        "members": {
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        "Grants": {
            "target": "com.amazonaws.licensemanager#GrantList",
             "traits": {
                "smithy.api#documentation": "<p>Received grant details.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
         },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
```

"traits": {
"smithy.api#documentation": " Lists received licenses. "
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganization":
{
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{

"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the licenses received for all accounts in the organization. "
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest": {
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are

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supported:</p>\n <ul>\n <li>\n <p>\n <code>Beneficiary</code>\n </p>\n
</li>\n <li>\n <p>\n <code>ProductSKU</code>\n
</p>\n </li>\n </ul>"
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": "<p>Token for the next set of results.</p>"
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#GrantedLicenseList",
"traits": {
"smithy.api#documentation": "<p>Lists the licenses the organization has received.</p>"
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": "<p>Token for the next set of results.</p>"
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
"type": "structure",
"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
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"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},

"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>IssuerName</code>\n \n \n \n \n <code>Beneficiary</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#GrantedLicenseList",
"traits": {
"smithy.api#documentation": " Received license details. "
}
},

"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}

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    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListResourceInventory": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
             "target": "com.amazonaws.licensemanager#FailedDependencyException"
        },
        {
            "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
    }
},
"com.amazonaws.licensemanager#ListResourceInventoryRequest": {
    "type": "structure",
    "members": {
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
             "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
```

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            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#InventoryFilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>account_id</code>
- The ID of the Amazon Web Services account that owns the resource.\n                Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n
            </li>\n            <li>\n                <p>\n                    <code>application_name</code> - The name of the
application. \n                Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n
    </li>\n            <li>\n                <p>\n                    <code>license_included</code> - The type of license included. \n
            Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n                Possible values
are <code>sql-server-enterprise</code> | \n                <code>sql-server-standard</code> | \n                <code>sql-
server-web</code> |  \n                <code>windows-server-datacenter</code>.</p>\n            </li>\n            <li>\n
    <p>\n                    <code>platform</code> - The platform of the resource.\n                Logical operators are
<code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n            </li>\n            <li>\n                <p>\n
        <code>resource_id</code> - The ID of the resource. \n                Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n
      <code>tag:<key></code> - The key/value combination of a tag assigned \n                to the resource. Logical
operators are <code>EQUALS</code> (single account) or\n                <code>EQUALS</code> |
<code>NOT_EQUALS</code> (cross account).</p>\n            </li>\n        </ul>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListResourceInventoryResponse": {
        "type": "structure",
        "members": {
            "ResourceInventoryList": {
                "target": "com.amazonaws.licensemanager#ResourceInventoryList",
                "traits": {
                    "smithy.api#documentation": "<p>Information
 about the resources.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
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                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the tags for the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",

    "smithy.api#required": {}
                }
            }
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        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceResponse": {
        "type": "structure",
        "members": {
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the tags.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListTokens": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTokensRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTokensResponse"
        },
        "errors":
[
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists your tokens.</p>"
        }
```

```
    },
    "com.amazonaws.licensemanager#ListTokensRequest": {
      "type": "structure",
      "members": {
        "TokenIds": {
          "target": "com.amazonaws.licensemanager#StringList",
          "traits": {

            "smithy.api#documentation": "<p>Token IDs.</p>"
          }
        },
        "Filters": {
          "target": "com.amazonaws.licensemanager#FilterList",
          "traits": {
            "smithy.api#documentation": "<p>Filters to scope the results. The following filter is supported:</p>\n
    <ul>\n        <li>\n        <p>\n        <code>LicenseArns</code>\n        </p>\n        </li>\n
</ul>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        },
        "MaxResults": {
          "target": "com.amazonaws.licensemanager#MaxSize100",
          "traits": {
            "smithy.api#documentation":
 "<p>Maximum number of results to return in a single call.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#ListTokensResponse": {
      "type": "structure",
      "members": {
        "Tokens": {
          "target": "com.amazonaws.licensemanager#TokenList",
          "traits": {
            "smithy.api#documentation": "<p>Received token details.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfiguration":
{
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists all license usage records for a license configuration, displaying license\n consumption details by resource at a selected point in time. Use this action to audit the\n current license consumption for any license inventory and configuration. "
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>resourceArn</code> - The ARN of the license configuration resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>resourceAccount</code> - The ID of the account that owns the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
"type": "structure",
"members": {

"LicenseConfigurationUsageList": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
"traits": {
"smithy.api#documentation": " Information about the license configurations. "
}

```
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#Location": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#Long": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#ManagedResourceSummary": {
        "type": "structure",
        "members": {
            "ResourceType":
{
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
                }
            },
            "AssociationCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#ManagedResourceSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
        }
    },
    "com.amazonaws.licensemanager#MaxSize100": {
```

"type": "integer",
    "traits": {
        "smithy.api#range": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#String"
    },
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 3
        }
    }
},
"com.amazonaws.licensemanager#Message": {
    "type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": " The key name. "
            }
        },

"Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": " The value. "
            }
        }
    },
    "traits": {
        "smithy.api#documentation": " Describes key/value pairs. "
    }
},
"com.amazonaws.licensemanager#MetadataList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Metadata"

```
        }
    },
    "com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>There are no entitlements found for this license, or the entitlement
maximum count is reached.</p>",
             "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#Options": {
        "type": "structure",
        "members": {
            "ActivationOverrideBehavior": {
                "target": "com.amazonaws.licensemanager#ActivationOverrideBehavior",
                "traits": {
                    "smithy.api#documentation": "<p>An activation option for your grant that determines the behavior of
activating a grant.\n        Activation options can only be used with granted licenses sourced from the Amazon Web
Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the\n
<code>Status</code> parameter.</p>\n        <ul>\n            <li>\n                <p>As a license administrator, you can
optionally specify an\n                <code>ActivationOverrideBehavior</code> when activating a grant.</p>\n
  </li>\n            <li>\n                <p>As a grantor, you can optionally specify an\n
<code>ActivationOverrideBehavior</code> when you activate a grant for a grantee\n                account in your
organization.</p>\n            </li>\n            <li>\n                <p>As a grantee, if the grantor creating the distributed
grant doesnt specify an\n                <code>ActivationOverrideBehavior</code>, you can optionally specify one
when you\n                are activating the grant.</p>\n            </li>\n        </ul>\n        <dl>\n
<dt>DISTRIBUTED_GRANTS_ONLY</dt>\n            <dd>\n                <p>Use this value to activate a grant
without replacing any member accounts\n                active grants for the same product.</p>\n            </dd>\n
<dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt>\n            <dd>\n                <p>Use this value to activate a
grant and disable other active grants in any\n                member accounts
 for the same product. This action will also replace their\n                previously activated grants with this activated
grant.</p>\n            </dd>\n        </dl>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The options you can specify when you create a new version of a grant,
such as activation\n        override behavior. For more information, see <a
href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in
License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
```

"com.amazonaws.licensemanager#OrganizationConfiguration": {
"type": "structure",
"members": {
"EnableIntegration": {
"target": "com.amazonaws.licensemanager#Boolean",
"traits": {
"smithy.api#default": false,
"smithy.api#documentation":
" Enables Organizations integration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Configuration information for Organizations. "
}
},
"com.amazonaws.licensemanager#PrincipalArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 1
}
}
},
"com.amazonaws.licensemanager#ProductInformation": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Resource type. The
possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterList": {
"target": "com.amazonaws.licensemanager#ProductInformationFilterList",
"traits": {
"smithy.api#documentation": " A Product information filter consists of a
<code>ProductInformationFilterComparator</code> which is a logical operator, a
<code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a
<code>ProductInformationFilterValue</code> that specifies the value to filter on. \n Accepted values
for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for

<code>ProductInformationFilterComparator</code>. \n The following filters and are supported when the resource type \n is <code>SSM_MANAGED</code>: \n
\n \n \n <code>Application Name</code> - The name of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Publisher</code> - The publisher of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Version</code> - The version of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Type</code> - The platform type.\n Logical operator is <code>EQUALS</code>. \n
\n \n \n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n \n \n \n \n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n \n \n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n Possible values are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n
The following filters and logical operators are supported when the resource type\n is <code>RDS</code>: \n \n \n \n <code>Engine Edition</code> - The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>. \n \n \n \n <code>License Pack</code> - The license pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n <code>diagnostic pack sqlt</code> | \n
<code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n
\n ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information for a license configuration. "
}
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
"type": "structure",
"members": {
"ProductInformationFilterName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Filter name. ",
"smithy.api#required": {}
}

```
        },
        "ProductInformationFilterValue": {
            "target": "com.amazonaws.licensemanager#StringList",

      "traits": {
                "smithy.api#documentation": "<p>Filter value.</p>"
            }
        },
        "ProductInformationFilterComparator": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Logical operator.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes product information filters.</p>"
    }
},
"com.amazonaws.licensemanager#ProductInformationFilterList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformationFilter"
    }
},
"com.amazonaws.licensemanager#ProductInformationList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformation"
     }
},
"com.amazonaws.licensemanager#ProvisionalConfiguration": {
    "type": "structure",
    "members": {
        "MaxTimeToLiveInMinutes": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum time for the provisional configuration, in minutes.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
    }
},
"com.amazonaws.licensemanager#RateLimitExceededException": {
```

"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "RateLimitExceeded",
"httpResponseCode": 429
},
"smithy.api#documentation": " Too many requests have been submitted. Try again after a brief wait. ",
"smithy.api#error": "client",
"smithy.api#httpError": 429
}
},
"com.amazonaws.licensemanager#ReceivedMetadata": {
"type": "structure",
"members": {
"ReceivedStatus": {
"target": "com.amazonaws.licensemanager#ReceivedStatus",
"traits": {
"smithy.api#documentation": " Received status. "
}
},
"ReceivedStatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Received status reason. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations. "
}
}
},
"traits": {
"smithy.api#documentation": " Metadata associated with received licenses and grants. "
}
},
"com.amazonaws.licensemanager#ReceivedStatus": {
"type": "enum",
"members": {
"PENDING_WORKFLOW": {

"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_WORKFLOW"
}
},
"PENDING_ACCEPT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue":
"PENDING_ACCEPT"
}
},
"REJECTED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "REJECTED"
}
},
"ACTIVE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ACTIVE"
}
},
"FAILED_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "FAILED_WORKFLOW"
}
},
"DELETED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DELETED"
}
},
"DISABLED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DISABLED"
}
},
"WORKFLOW_COMPLETED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "WORKFLOW_COMPLETED"
}
}

```
        }
    },
    "com.amazonaws.licensemanager#RedirectException": {
        "type": "structure",
        "members": {
            "Location": {
                "target": "com.amazonaws.licensemanager#Location",
                "traits": {
                    "smithy.api#httpHeader": "Location"
                }
            },
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
             "smithy.api#error": "client",
            "smithy.api#httpError": 308
        }
    },
    "com.amazonaws.licensemanager#RejectGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#RejectGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#RejectGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target":
"com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#RejectGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}

}
    },
    "com.amazonaws.licensemanager#RejectGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        },
        "traits": {
```

"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#RenewType":
{
"type": "enum",
"members": {
"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"WEEKLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Weekly"
}
},
"MONTHLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Monthly"
}
}
}
},
"com.amazonaws.licensemanager#ReportContext": {
"type": "structure",
"members": {
"licenseConfigurationArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration that this generator reports on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details of the license configuration that this generator reports on. "
}
},
"com.amazonaws.licensemanager#ReportFrequency": {
"type": "structure",
"members": {
"value": {

"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Number of times within the frequency period that a report is generated. \n The only supported value is <code>1</code>. "
}
},
"period": {
"target": "com.amazonaws.licensemanager#ReportFrequencyType",

"traits": {
"smithy.api#documentation": " Time period between each report. The period can be daily, weekly, or monthly. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"com.amazonaws.licensemanager#ReportFrequencyType": {
"type": "enum",
"members": {
"DAY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DAY"
}
},
"WEEK": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "WEEK"
}
},
"MONTH": {
"target": "smithy.api#Unit",
"traits":
{
"smithy.api#enumValue": "MONTH"
}
}
}
},
"com.amazonaws.licensemanager#ReportGenerator": {
"type": "structure",
"members": {
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Name of the report generator. "
}
},
"ReportType": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports that are generated. "
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " License
configuration type for this generator. "
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. "
}
},
"LastRunStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the last report generation attempt. "
}
},
"LastRunFailureReason":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Failure message for the last report generation attempt. "
}
},
"LastReportGenerationTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the last report was generated at. "
}
},

"ReportCreatorAccount": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Web Services account ID used to create the report generator. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"S3Location": {
"target": "com.amazonaws.licensemanager#S3Location",
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the report was created. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags associated with the report generator. "
}

}
},
"traits": {
"smithy.api#documentation": " Describe the details of a report generator. "
}
},
"com.amazonaws.licensemanager#ReportGeneratorList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ReportGenerator"
}
},
"com.amazonaws.licensemanager#ReportGeneratorName": {
"type": "string",
"traits": {

```
            "smithy.api#length": {
                "min": 1,
                "max": 100
            }
        }
    },
    "com.amazonaws.licensemanager#ReportType": {
        "type": "enum",
        "members": {
            "LICENSE_CONFIGURATION_SUMMARY_REPORT": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "LicenseConfigurationSummaryReport"
                }

    },
            "LICENSE_CONFIGURATION_USAGE_REPORT": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "LicenseConfigurationUsageReport"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ReportTypeList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ReportType"
        }
    },
    "com.amazonaws.licensemanager#ResourceInventory": {
        "type": "structure",
        "members": {
            "ResourceId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits":
{
                    "smithy.api#documentation": "<p>Type of resource.</p>"
                }
            },
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"Platform": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Platform of the resource. "
}
},
"PlatformVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Platform version of the resource in the inventory. "
}
},
"ResourceOwningAccountId":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the account that owns the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about a resource. "
}
},
"com.amazonaws.licensemanager#ResourceInventoryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ResourceInventory"
}
},
"com.amazonaws.licensemanager#ResourceLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "ResourceLimitExceeded",

"httpResponseCode": 400
},
"smithy.api#documentation": " Your resource limits have been exceeded. ",

```
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceNotFoundException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "InvalidResource.NotFound",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The resource cannot be found.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceType": {
    "type": "enum",
    "members": {
        "EC2_INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_INSTANCE"
            }
        },
        "EC2_HOST": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_HOST"
            }
        },
        "EC2_AMI": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_AMI"
            }
        },
        "RDS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "RDS"
            }
        },
```

```
            "SYSTEMS_MANAGER_MANAGED_INSTANCE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#S3Location": {
        "type": "structure",
        "members": {
            "bucket": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the S3 bucket reports are published to.</p>"
                }
            },
            "keyPrefix": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Prefix of the S3 bucket reports are published to.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
        }
    },
    "com.amazonaws.licensemanager#ServerInternalException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InternalError",
                "httpResponseCode": 500
            },
            "smithy.api#documentation": "<p>The server experienced an internal error. Try again.</p>",
            "smithy.api#error": "server",
            "smithy.api#httpError": 500
        }
    },
    "com.amazonaws.licensemanager#SignedToken": {
        "type": "string",
```

```
        "traits": {
            "smithy.api#length": {
                "min": 4096
            }
        }
    },
    "com.amazonaws.licensemanager#StatusReasonMessage": {
        "type": "string",
        "traits":
{
            "smithy.api#length": {
                "min": 0,
                "max": 400
            },
            "smithy.api#pattern": "^[\\s\\S]+$"
        }
    },
    "com.amazonaws.licensemanager#String": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#StringList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },
    "com.amazonaws.licensemanager#Tag": {
        "type": "structure",
        "members": {
            "Key": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag key.</p>"
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
"<p>Tag value.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagKeyList": {
```

"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#String"
}
},
"com.amazonaws.licensemanager#TagList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Tag"
}
},
"com.amazonaws.licensemanager#TagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#TagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#TagResourceResponse"
},
"errors": [
{
"target":
"com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Adds the specified tags to the specified license configuration. "
}
},
"com.amazonaws.licensemanager#TagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits":

{
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " One or more tags. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#TagResourceResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#TokenData": {
"type": "structure",
"members": {
"TokenId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token ID. "
}
},
"TokenType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Type of token generated. The supported value is <code>REFRESH_TOKEN</code>. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"ExpirationTime": {

"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Token expiration time, in ISO8601-UTC format. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller. "
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the roles included in the token. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token status. The possible values are <code>AVAILABLE</code> and <code>DELETED</code>. "
}
}
},
"traits": {

"smithy.api#documentation": " Describes a token. "
}
},
"com.amazonaws.licensemanager#TokenList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#TokenData"
}
},
"com.amazonaws.licensemanager#TokenString": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 4096
},
"smithy.api#pattern": "^\\S+$"
}
},

"com.amazonaws.licensemanager#TokenType": {
"type": "enum",
"members": {
"REFRESH_TOKEN": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "REFRESH_TOKEN"
}
}
}
},
"com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The digital signature method is unsupported. Try your request again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#UntagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UntagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UntagResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{

"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Removes the specified tags from the specified license configuration. "
}
},
"com.amazonaws.licensemanager#UntagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"TagKeys": {
"target": "com.amazonaws.licensemanager#TagKeyList",
"traits": {
"smithy.api#documentation": " Keys identifying the tags to remove. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UntagResourceResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
},
"errors": [

```
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Modifies the attributes of an existing license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseConfigurationStatus": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
                "traits": {
                    "smithy.api#documentation": "<p>New status of the license configuration.</p>"
                }
            },
            "LicenseRules": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {

    "smithy.api#documentation": "<p>New license rule. The only rule that you can add after you create a license\n
    configuration is licenseAffinityToHost.</p>"
                }
            },
```

"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " New number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " New hard limit of the number of available licenses. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New description of the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " New product information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
"type": "structure",
"members": {},

"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates a report generator. \n After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated. "
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to update. ",
"smithy.api#required": {}
}
},
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation":
" Type of reports to generate. The following report types are supported: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " The report context. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits":
{
"smithy.api#documentation": " Frequency by which reports are generated. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},

```
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Description of the report generator.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse":
{
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },

            {
                "target": "com.amazonaws.licensemanager#InvalidResourceStateException"
            },
            {
                "target": "com.amazonaws.licensemanager#LicenseUsageException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
```

"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Adds or removes the specified license configurations for the specified Amazon Web Services resource. \n You can update the license specifications of AMIs, instances, and hosts.\n You cannot update the license specifications for launch templates and CloudFormation templates, \n as they send license configurations to the operation that creates the resource. "
}
},

"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon Web Services resource. ",
"smithy.api#required": {}
}
},
"AddLicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " ARNs of the license configurations to add. "
}
},
"RemoveLicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " ARNs of the license configurations to remove. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateServiceSettings": {

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Updates License Manager settings for the current Region. "
}
},
"com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
"type": "structure",
"members": {
"S3BucketArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon S3 bucket where the License
Manager information is stored. "
}
},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",

"traits": {
"smithy.api#documentation": " Enables integration with Organizations for cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Activates cross-account discovery. "

}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UsageOperation": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
}
}
},
"com.amazonaws.licensemanager#ValidationException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The provided input is not valid. Try your request again. ",

"smithy.api#error": "client",
"smithy.api#httpError": 400
}
}
}

```
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version
 of the license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}
```

```
type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack,
 options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
```

```
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if
err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}
```

```
func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "DeleteLicense",
 }
}
```

1.6045 smithy-go 1.20.0

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1.6046 websockets 10.4

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1.6047 httptools 0.5.0

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1.6048 watchfiles 0.18.1

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1.6049 kubernetes 25.3.0

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1.6050 sniffio 1.3.0

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1.6058 etcd-client-pkg 3.5.16

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1.6059 botocore 2.0.0dev155

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```
{
  "ResponseMetadata": {
    "RequestId": "9a285199-c8d6-47c2-bdb2-314cb47d599d"
  }
}
```


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```
{
  "ResponseMetadata": {
     "RequestId": "6a213e4e-33a8-11df-9540-99d0768312d3"
  }
}
{
 "pagination": {
  "ListAssociationsForLicenseConfiguration": {
    "input_token": "NextToken",
    "limit_key": "MaxResults",
    "output_token": "NextToken",
    "result_key": "LicenseConfigurationAssociations"
  },
  "ListLicenseConfigurations": {
    "input_token": "NextToken",
    "limit_key": "MaxResults",
    "output_token": "NextToken",
    "result_key": "LicenseConfigurations"
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  "ListLicenseSpecificationsForResource": {
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    "limit_key": "MaxResults",
    "output_token": "NextToken",
    "result_key": "LicenseSpecifications"
  },
  "ListResourceInventory": {
    "input_token": "NextToken",
    "limit_key": "MaxResults",
    "output_token": "NextToken",
    "result_key": "ResourceInventoryList"
  },
  "ListUsageForLicenseConfiguration": {
    "input_token": "NextToken",
    "limit_key": "MaxResults",
    "output_token": "NextToken",
    "result_key": "LicenseConfigurationUsageList"
   }
 }
}
```

{
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 "metadata":{
  "apiVersion":"2018-08-01",
  "endpointPrefix":"license-manager",
  "jsonVersion":"1.1",
  "protocol":"json",
  "serviceFullName":"AWS License Manager",
  "serviceId":"License Manager",
  "signatureVersion":"v4",
  "targetPrefix":"AWSLicenseManager",
  "uid":"license-manager-2018-08-01"
 },
 "operations":{
  "CreateLicenseConfiguration":{
   "name":"CreateLicenseConfiguration",
   "http":{
    "method":"POST",
    "requestUri":"/"
   },
   "input":{"shape":"CreateLicenseConfigurationRequest"},
   "output":{"shape":"CreateLicenseConfigurationResponse"},
   "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
   ],
   "documentation":" Creates a license configuration.
 A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, Dedicated Instance, Dedicated Host, or all of these), license affinity to host (how long a license must be associated with a host), and the number of licenses purchased and used. "
  },
  "DeleteLicenseConfiguration":{
   "name":"DeleteLicenseConfiguration",
   "http":{
    "method":"POST",
    "requestUri":"/"
   },
   "input":{"shape":"DeleteLicenseConfigurationRequest"},
   "output":{"shape":"DeleteLicenseConfigurationResponse"},
   "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},

{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Deletes the specified license configuration. You cannot delete a license configuration that is in use. "
},
"GetLicenseConfiguration":{
"name":"GetLicenseConfiguration",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"GetLicenseConfigurationRequest"},
"output":{"shape":"GetLicenseConfigurationResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Gets detailed information about the specified license configuration. "
},
"GetServiceSettings":{
"name":"GetServiceSettings",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"GetServiceSettingsRequest"},
"output":{"shape":"GetServiceSettingsResponse"},
"errors":[
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
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],
"documentation":" Gets the License Manager settings for the current Region. "
},
"ListAssociationsForLicenseConfiguration":{
"name":"ListAssociationsForLicenseConfiguration",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListAssociationsForLicenseConfigurationRequest"},
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"errors":[

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{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Lists the resource
associations for the specified license configuration. Resource associations need not consume licenses from a license configuration. For example, an AMI or a stopped instance might not consume a license (depending on the license rules). "
},
"ListFailuresForLicenseConfigurationOperations":{
"name":"ListFailuresForLicenseConfigurationOperations",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListFailuresForLicenseConfigurationOperationsRequest"},
"output":{"shape":"ListFailuresForLicenseConfigurationOperationsResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Lists the license configuration operations that failed. "
},
"ListLicenseConfigurations":{

"name":"ListLicenseConfigurations",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListLicenseConfigurationsRequest"},
"output":{"shape":"ListLicenseConfigurationsResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"FilterLimitExceededException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Lists the license configurations for your account. "
},

"ListLicenseSpecificationsForResource":{
 "name":"ListLicenseSpecificationsForResource",
 "http":{
  "method":"POST",
  "requestUri":"/"
 },
 "input":{"shape":"ListLicenseSpecificationsForResourceRequest"},
 "output":{"shape":"ListLicenseSpecificationsForResourceResponse"},
 "errors":[
  {"shape":"InvalidParameterValueException"},
  {"shape":"ServerInternalException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"}
 ],
 "documentation":" Describes the license configurations for the specified resource. "
},
"ListResourceInventory":{
 "name":"ListResourceInventory",
 "http":{
  "method":"POST",
  "requestUri":"/"
 },
 "input":{"shape":"ListResourceInventoryRequest"},
 "output":{"shape":"ListResourceInventoryResponse"},
 "errors":[
  {"shape":"InvalidParameterValueException"},
  {"shape":"ServerInternalException"},
  {"shape":"FilterLimitExceededException"},
  {"shape":"FailedDependencyException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"}
 ],
 "documentation":" Lists resources managed using Systems Manager inventory. "
},
"ListTagsForResource":{
 "name":"ListTagsForResource",
 "http":{
  "method":"POST",
  "requestUri":"/"
 },
 "input":{"shape":"ListTagsForResourceRequest"},
 "output":{"shape":"ListTagsForResourceResponse"},
 "errors":[
  {"shape":"InvalidParameterValueException"},
  {"shape":"ServerInternalException"},
  {"shape":"AuthorizationException"},

{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Lists the tags for the specified license configuration. "
},
"ListUsageForLicenseConfiguration":{
"name":"ListUsageForLicenseConfiguration",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListUsageForLicenseConfigurationRequest"},
"output":{"shape":"ListUsageForLicenseConfigurationResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"FilterLimitExceededException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Lists all license usage records for a license configuration, displaying license consumption details by resource at a selected point in time. Use this action to audit the current license consumption for any license inventory and configuration. "
},
"TagResource":{
"name":"TagResource",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"TagResourceRequest"},
"output":{"shape":"TagResourceResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Adds the specified tags to the specified license configuration. "
},
"UntagResource":{
"name":"UntagResource",
"http":{
"method":"POST",
"requestUri":"/"

```
  },
  "input":{"shape":"UntagResourceRequest"},
  "output":{"shape":"UntagResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Removes the specified tags from the specified license configuration.</p>"
},
"UpdateLicenseConfiguration":{
  "name":"UpdateLicenseConfiguration",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"UpdateLicenseConfigurationRequest"},
  "output":{"shape":"UpdateLicenseConfigurationResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
     {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Modifies the attributes of an existing license configuration.</p>"
},
"UpdateLicenseSpecificationsForResource":{
  "name":"UpdateLicenseSpecificationsForResource",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"UpdateLicenseSpecificationsForResourceRequest"},
  "output":{"shape":"UpdateLicenseSpecificationsForResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"InvalidResourceStateException"},
    {"shape":"LicenseUsageException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Adds or
```

removes the specified license configurations for the specified AWS resource. You can update the license specifications of AMIs, instances, and hosts. You cannot update the license specifications for launch templates and AWS CloudFormation templates, as they send license configurations to the operation that creates the resource. "
  },
  "UpdateServiceSettings":{
    "name":"UpdateServiceSettings",
    "http":{
      "method":"POST",
      "requestUri":"/"
    },
    "input":{"shape":"UpdateServiceSettingsRequest"},
    "output":{"shape":"UpdateServiceSettingsResponse"},
    "errors":[
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      {"shape":"ServerInternalException"},
      {"shape":"AuthorizationException"},
      {"shape":"AccessDeniedException"},
      {"shape":"RateLimitExceededException"}
    ],
    "documentation":" Updates License Manager settings for the current Region. "
  }
},
"shapes":{
  "AccessDeniedException":{
     "type":"structure",
    "members":{
      "Message":{"shape":"Message"}
    },
    "documentation":" Access to resource denied. ",
    "exception":true
  },
  "AuthorizationException":{
    "type":"structure",
    "members":{
      "Message":{"shape":"Message"}
    },
    "documentation":" The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account. ",
    "exception":true
  },
  "AutomatedDiscoveryInformation":{
    "type":"structure",
    "members":{
      "LastRunTime":{
        "shape":"DateTime",
        "documentation":" Time that automated discovery last ran. "
      }
    },

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  "documentation":"<p>Describes automated discovery.</p>"
},
"Boolean":{"type":"boolean"},
"BoxBoolean":{"type":"boolean"},
"BoxInteger":{"type":"integer"},
"BoxLong":{"type":"long"},
"ConsumedLicenseSummary":{
  "type":"structure",
  "members":{
    "ResourceType":{
      "shape":"ResourceType",
      "documentation":"<p>Resource type of the resource consuming a license.</p>"
    },
    "ConsumedLicenses":{
      "shape":"BoxLong",
      "documentation":"<p>Number of licenses consumed by the resource.</p>"
    }
  },
  "documentation":"<p>Details about license consumption.</p>"
},
"ConsumedLicenseSummaryList":{
  "type":"list",
  "member":{"shape":"ConsumedLicenseSummary"}
},
"CreateLicenseConfigurationRequest":{
  "type":"structure",
  "required":[
    "Name",
    "LicenseCountingType"
  ],
  "members":{
    "Name":{
      "shape":"String",
      "documentation":"<p>Name of the license configuration.</p>"
    },
    "Description":{
      "shape":"String",
      "documentation":"<p>Description of the license configuration.</p>"
    },
    "LicenseCountingType":{
      "shape":"LicenseCountingType",
       "documentation":"<p>Dimension used to track the license inventory.</p>"
    },
    "LicenseCount":{
      "shape":"BoxLong",
      "documentation":"<p>Number of licenses managed by the license configuration.</p>"
    },
    "LicenseCountHardLimit":{
```

"shape":"BoxBoolean",
"documentation":" Indicates whether hard or soft license enforcement is used. Exceeding a hard limit blocks the launch of new instances. "
},
"LicenseRules":{
"shape":"StringList",
"documentation":" License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules vary by dimension, as follows.   <code>Cores</code> dimension: <code>allowedTenancy</code> | <code>licenseAffinityToHost</code> | <code>maximumCores</code> | <code>minimumCores</code>   <code>Instances</code> dimension: <code>allowedTenancy</code> | <code>maximumCores</code> | <code>minimumCores</code> | <code>maximumSockets</code> | <code>minimumSockets</code> | <code>maximumVcpus</code> | <code>minimumVcpus</code>   <code>Sockets</code> dimension: <code>allowedTenancy</code> | <code>licenseAffinityToHost</code> | <code>maximumSockets</code> | <code>minimumSockets</code>   <code>vCPUs</code> dimension: <code>allowedTenancy</code> | <code>honorVcpuOptimization</code> | <code>maximumVcpus</code> | <code>minimumVcpus</code>   The unit for <code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are <code>True</code> and <code>False</code>. "
},
"Tags":{
"shape":"TagList",
"documentation":" Tags to add to the license configuration. "
},

"ProductInformationList":{
"shape":"ProductInformationList",
"documentation":" Product information. "
}
}
},
"CreateLicenseConfigurationResponse":{
"type":"structure",
"members":{
"LicenseConfigurationArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the license configuration. "
}
}
},
"DateTime":{"type":"timestamp"},
"DeleteLicenseConfigurationRequest":{
"type":"structure",
"required":["LicenseConfigurationArn"],
"members":{
"LicenseConfigurationArn":{
"shape":"String",

"documentation":" ID of the license configuration. "
}
}
},
"DeleteLicenseConfigurationResponse":{
"type":"structure",
"members":{
}
},
"FailedDependencyException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"documentation":" A
dependency required to run the API is missing. ",
"exception":true
},
"Filter":{
"type":"structure",
"members":{
"Name":{
"shape":"FilterName",
"documentation":" Name of the filter. Filter names are case-sensitive. "
},
"Values":{
"shape":"FilterValues",
"documentation":" Filter values. Filter values are case-sensitive. "
}
},
"documentation":" A filter name and value pair that is used to return more specific results from a describe
operation. Filters can be used to match a set of resources by specific criteria, such as tags, attributes, or IDs. "
},
"FilterLimitExceededException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"documentation":" The request uses too many filters or too many filter values. ",
"exception":true
},
"FilterName":{"type":"string"},
"FilterValue":{"type":"string"},
"FilterValues":{
"type":"list",
"member":{"shape":"FilterValue"}
},
"Filters":{

```
  "type":"list",
  "member":{"shape":"Filter"}
},
"GetLicenseConfigurationRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    }
  }
},
"GetLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
    "LicenseConfigurationId":{
      "shape":"String",
      "documentation":"<p>Unique ID for the license configuration.</p>"
    },
    "LicenseConfigurationArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    },
    "Name":{
      "shape":"String",
      "documentation":"<p>Name of the license configuration.</p>"
     },
    "Description":{
      "shape":"String",
      "documentation":"<p>Description of the license configuration.</p>"
    },
    "LicenseCountingType":{
      "shape":"LicenseCountingType",
      "documentation":"<p>Dimension on which the licenses are counted.</p>"
    },
    "LicenseRules":{
      "shape":"StringList",
      "documentation":"<p>License rules.</p>"
    },
    "LicenseCount":{
      "shape":"BoxLong",
      "documentation":"<p>Number of available licenses.</p>"
    },
    "LicenseCountHardLimit":{
      "shape":"BoxBoolean",
      "documentation":"<p>Sets the number of available licenses as a hard limit.</p>"
    },
```

"ConsumedLicenses":{
"shape":"BoxLong",
"documentation":" Number of licenses assigned to resources. "
},
"Status":{
"shape":"String",
"documentation":" License configuration status. "

},
"OwnerAccountId":{
"shape":"String",
"documentation":" Account ID of the owner of the license configuration. "
},
"ConsumedLicenseSummaryList":{
"shape":"ConsumedLicenseSummaryList",
"documentation":" Summaries of the licenses consumed by resources. "
},
"ManagedResourceSummaryList":{
"shape":"ManagedResourceSummaryList",
"documentation":" Summaries of the managed resources. "
},
"Tags":{
"shape":"TagList",
"documentation":" Tags for the license configuration. "
},
"ProductInformationList":{
"shape":"ProductInformationList",
"documentation":" Product information. "
},
"AutomatedDiscoveryInformation":{
"shape":"AutomatedDiscoveryInformation",
"documentation":" Automated discovery information. "
}
}
},
"GetServiceSettingsRequest":{
"type":"structure",
"members":{
}
},
"GetServiceSettingsResponse":{
"type":"structure",
"members":{
"S3BucketArn":{
"shape":"String",
"documentation":" Regional S3 bucket path for storing reports, license trail event data, discovery data, and so on. "
},

"SnsTopicArn":{
"shape":"String",
"documentation":" SNS topic configured to receive notifications from License Manager. "
},
"OrganizationConfiguration":{
"shape":"OrganizationConfiguration",
"documentation":" Indicates whether AWS Organizations has been integrated with License Manager for cross-account discovery. "
},
"EnableCrossAccountsDiscovery":{
"shape":"BoxBoolean",
"documentation":" Indicates whether cross-account discovery has been enabled. "
},
"LicenseManagerResourceShareArn":{
"shape":"String",

"documentation":" Amazon Resource Name (ARN) of the AWS resource share. The License Manager master account will provide member accounts with access to this share. "
}
}
},
"InvalidParameterValueException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"documentation":" One or more parameter values are not valid. ",
"exception":true,
"synthetic":true
},
"InvalidResourceStateException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"documentation":" License Manager cannot allocate a license to a resource because of its state. For example, you cannot allocate a license to an instance in the process of shutting down. ",
"exception":true
},
"InventoryFilter":{
"type":"structure",
"required":[
"Name",
"Condition"
],
"members":{
"Name":{
"shape":"String",

"documentation":" Name of the filter. "
},
"Condition":{
"shape":"InventoryFilterCondition",
"documentation":" Condition of the filter. "
},
"Value":{
"shape":"String",
"documentation":" Value of the filter. "
}
},
"documentation":" An inventory filter. "
},
"InventoryFilterCondition":{
"type":"string",
"enum":[
"EQUALS",
"NOT_EQUALS",
"BEGINS_WITH",
"CONTAINS"
]
},
"InventoryFilterList":{
"type":"list",
"member":{"shape":"InventoryFilter"}
},
"LicenseConfiguration":{
"type":"structure",
"members":{
"LicenseConfigurationId":{
"shape":"String",
"documentation":" Unique ID of the license configuration. "
},
"LicenseConfigurationArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of
the license configuration. "
},
"Name":{
"shape":"String",
"documentation":" Name of the license configuration. "
},
"Description":{
"shape":"String",
"documentation":" Description of the license configuration. "
},
"LicenseCountingType":{
"shape":"LicenseCountingType",

"documentation":" Dimension to use to track the license inventory. "
},
"LicenseRules":{
"shape":"StringList",
"documentation":" License rules. "
},
"LicenseCount":{
"shape":"BoxLong",
"documentation":" Number of licenses managed by the license configuration. "
},
"LicenseCountHardLimit":{
"shape":"BoxBoolean",
"documentation":" Number of available licenses as a hard limit. "
},
"ConsumedLicenses":{
"shape":"BoxLong",
"documentation":" Number
of licenses consumed. "
},
"Status":{
"shape":"String",
"documentation":" Status of the license configuration. "
},
"OwnerAccountId":{
"shape":"String",
"documentation":" Account ID of the license configuration's owner. "
},
"ConsumedLicenseSummaryList":{
"shape":"ConsumedLicenseSummaryList",
"documentation":" Summaries for licenses consumed by various resources. "
},
"ManagedResourceSummaryList":{
"shape":"ManagedResourceSummaryList",
"documentation":" Summaries for managed resources. "
},
"ProductInformationList":{
"shape":"ProductInformationList",
"documentation":" Product information. "
},
"AutomatedDiscoveryInformation":{
"shape":"AutomatedDiscoveryInformation",
"documentation":" Automated discovery information. "
}

},
"documentation":" A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, Dedicated Instance, Dedicated Host, or all of

these), host affinity (how long a VM must be associated with a host), and the number of licenses purchased and used. "
},
"LicenseConfigurationAssociation":{
"type":"structure",
"members":{
"ResourceArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the resource. "
},
"ResourceType":{
"shape":"ResourceType",
"documentation":" Type of server resource. "
},
"ResourceOwnerId":{
"shape":"String",
"documentation":" ID of the AWS account that owns the resource consuming licenses. "
},

"AssociationTime":{
"shape":"DateTime",
"documentation":" Time when the license configuration was associated with the resource. "
}
},
"documentation":" Describes an association with a license configuration. "
},
"LicenseConfigurationAssociations":{
"type":"list",
"member":{"shape":"LicenseConfigurationAssociation"}
},
"LicenseConfigurationStatus":{
"type":"string",
"enum":[
"AVAILABLE",
"DISABLED"
]
},
"LicenseConfigurationUsage":{
"type":"structure",
"members":{
"ResourceArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the resource. "
},
"ResourceType":{
"shape":"ResourceType",
"documentation":" Type of resource. "
},

```
    "ResourceStatus":{
      "shape":"String",
      "documentation":"<p>Status of the resource.</p>"
    },
    "ResourceOwnerId":{
       "shape":"String",
      "documentation":"<p>ID of the account that owns the resource.</p>"
    },
    "AssociationTime":{
      "shape":"DateTime",
      "documentation":"<p>Time when the license configuration was initially associated with the resource.</p>"
    },
    "ConsumedLicenses":{
      "shape":"BoxLong",
      "documentation":"<p>Number of licenses consumed by the resource.</p>"
    }
  },
  "documentation":"<p>Details about the usage of a resource associated with a license configuration.</p>"
},
"LicenseConfigurationUsageList":{
  "type":"list",
  "member":{"shape":"LicenseConfigurationUsage"}
},
"LicenseConfigurations":{
  "type":"list",
  "member":{"shape":"LicenseConfiguration"}
},
"LicenseCountingType":{
  "type":"string",
  "enum":[
    "vCPU",
    "Instance",
    "Core",
    "Socket"
  ]
},
"LicenseOperationFailure":{
   "type":"structure",
  "members":{
    "ResourceArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the resource.</p>"
    },
    "ResourceType":{
      "shape":"ResourceType",
      "documentation":"<p>Resource type.</p>"
    },
    "ErrorMessage":{
```

"shape":"String",
"documentation":" Error message. "
},
"FailureTime":{
"shape":"DateTime",
"documentation":" Failure time. "
},
"OperationName":{
"shape":"String",
"documentation":" Name of the operation. "
},
"ResourceOwnerId":{
"shape":"String",
"documentation":" ID of the AWS account that owns the resource. "
},
"OperationRequestedBy":{
"shape":"String",
"documentation":" The requester is \"License Manager Automated Discovery\". "
},
"MetadataList":{

"shape":"MetadataList",
"documentation":" Reserved. "
}
},
"documentation":" Describes the failure of a license operation. "
},
"LicenseOperationFailureList":{
"type":"list",
"member":{"shape":"LicenseOperationFailure"}
},
"LicenseSpecification":{
"type":"structure",
"required":["LicenseConfigurationArn"],
"members":{
"LicenseConfigurationArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the license configuration. "
}
},
"documentation":" Details for associating a license configuration with a resource. "
},
"LicenseSpecifications":{
"type":"list",
"member":{"shape":"LicenseSpecification"}
},
"LicenseUsageException":{
"type":"structure",

"members":{
"Message":{"shape":"Message"}
},
"documentation":" You do not have enough licenses available to support a new resource launch. ",
"exception":true
},
"ListAssociationsForLicenseConfigurationRequest":{
"type":"structure",
"required":["LicenseConfigurationArn"],
"members":{
"LicenseConfigurationArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of a license configuration. "
},
"MaxResults":{
"shape":"BoxInteger",
"documentation":" Maximum number of results to return in a single call. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
}
}
},
"ListAssociationsForLicenseConfigurationResponse":{
"type":"structure",
"members":{
"LicenseConfigurationAssociations":{
"shape":"LicenseConfigurationAssociations",
"documentation":" Information about the associations for the license configuration. "
},
"NextToken":{

"shape":"String",
"documentation":" Token for the next set of results. "
}
}
},
"ListFailuresForLicenseConfigurationOperationsRequest":{
"type":"structure",
"required":["LicenseConfigurationArn"],
"members":{
"LicenseConfigurationArn":{
"shape":"String",
"documentation":" Amazon Resource Name of the license configuration. "
},
"MaxResults":{

"shape":"BoxInteger",
"documentation":" Maximum number of results to return in a single call. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
}
}
},
"ListFailuresForLicenseConfigurationOperationsResponse":{
"type":"structure",
"members":{
"LicenseOperationFailureList":{
"shape":"LicenseOperationFailureList",
"documentation":" License configuration operations that failed. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
}
}
},
"ListLicenseConfigurationsRequest":{
"type":"structure",
"members":{
"LicenseConfigurationArns":{
"shape":"StringList",
"documentation":" Amazon Resource Names (ARN) of the license configurations. "
},
"MaxResults":{
"shape":"BoxInteger",
"documentation":" Maximum number of results to return in a single call. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
},
"Filters":{
"shape":"Filters",
"documentation":" Filters to scope the results. The following filters and logical operators are supported: <ul> <code>licenseCountingType</code> - The dimension on which licenses are counted. Possible values are <code>vCPU</code>
| <code>Instance</code> | <code>Core</code> | <code>Socket</code>. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.   <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license enforcement is used. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.   <code>usagelimitExceeded</code> - A Boolean value that indicates whether the available licenses have been exceeded. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. "

```
      }
    }
  },
  "ListLicenseConfigurationsResponse":{
    "type":"structure",
    "members":{
      "LicenseConfigurations":{
        "shape":"LicenseConfigurations",
        "documentation":"<p>Information about the license configurations.</p>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>Token for the next set of results.</p>"
      }
    }
  },
  "ListLicenseSpecificationsForResourceRequest":{
     "type":"structure",
    "required":["ResourceArn"],
    "members":{
      "ResourceArn":{
        "shape":"String",
        "documentation":"<p>Amazon Resource Name (ARN) of a resource that has an associated license
configuration.</p>"
      },
      "MaxResults":{
        "shape":"BoxInteger",
        "documentation":"<p>Maximum number of results to return in a single call.</p>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>Token for the next set of results.</p>"
      }
    }
  },
  "ListLicenseSpecificationsForResourceResponse":{
    "type":"structure",
    "members":{
      "LicenseSpecifications":{
        "shape":"LicenseSpecifications",
        "documentation":"<p>License configurations associated with a resource.</p>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>Token for the next set of results.</p>"

      }
    }
```

```
  },
  "ListResourceInventoryRequest":{
    "type":"structure",
    "members":{
      "MaxResults":{
        "shape":"BoxInteger",
        "documentation":"<p>Maximum number of results to return in a single call.</p>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>Token for the next set of results.</p>"
      },
      "Filters":{
        "shape":"InventoryFilterList",
        "documentation":"<p>Filters to scope the results. The following filters and logical operators are
supported:</p> <ul> <li> <p> <code>account_id</code> - The ID of the AWS account that owns the resource.
Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p>
<code>application_name</code> - The name of the application. Logical operators are <code>EQUALS</code> |
<code>BEGINS_WITH</code>.</p> </li> <li> <p> <code>license_included</code> - The type of license
included. Logical operators are <code>EQUALS</code>
| <code>NOT_EQUALS</code>. Possible values are <code>sql-server-enterprise</code> | <code>sql-server-
standard</code> | <code>sql-server-web</code> | <code>windows-server-datacenter</code>.</p> </li> <li> <p>
<code>platform</code> - The platform of the resource. Logical operators are <code>EQUALS</code> |
<code>BEGINS_WITH</code>.</p> </li> <li> <p> <code>resource_id</code> - The ID of the resource. Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> </ul>"
      }
    }
  },
  "ListResourceInventoryResponse":{
    "type":"structure",
    "members":{
      "ResourceInventoryList":{
        "shape":"ResourceInventoryList",
        "documentation":"<p>Information about the resources.</p>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>Token for the next set of results.</p>"
      }
    }
  },
  "ListTagsForResourceRequest":{
    "type":"structure",
    "required":["ResourceArn"],

  "members":{
      "ResourceArn":{
        "shape":"String",
```

"documentation":" Amazon Resource Name (ARN) of the license configuration. "
}
}
},
"ListTagsForResourceResponse":{
"type":"structure",
"members":{
"Tags":{
"shape":"TagList",
"documentation":" Information about the tags. "
}
}
},
"ListUsageForLicenseConfigurationRequest":{
"type":"structure",
"required":["LicenseConfigurationArn"],
"members":{
"LicenseConfigurationArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the license configuration. "
},
"MaxResults":{
"shape":"BoxInteger",
"documentation":" Maximum number of results to return in a single call. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
},
"Filters":{
"shape":"Filters",
"documentation":" Filters to scope the results. The following filters and logical operators are supported: <ul> <code>resourceArn</code> - The ARN of the license configuration resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.   <code>resourceType</code> - The resource type (EC2_INSTANCE | EC2_HOST | EC2_AMI | SYSTEMS_MANAGER_MANAGED_INSTANCE). Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.   <code>resourceAccount</code> - The ID of the account that owns the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. "
}
}
},
"ListUsageForLicenseConfigurationResponse":{
"type":"structure",
"members":{
"LicenseConfigurationUsageList":{
"shape":"LicenseConfigurationUsageList",
"documentation":" Information about the license configurations. "

```
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},
"ManagedResourceSummary":{
  "type":"structure",
  "members":{
    "ResourceType":{
      "shape":"ResourceType",
      "documentation":"<p>Type of resource associated with a license.</p>"
    },
    "AssociationCount":{
      "shape":"BoxLong",
      "documentation":"<p>Number of resources associated with licenses.</p>"
    }
  },
  "documentation":"<p>Summary information about a managed resource.</p>"
},
"ManagedResourceSummaryList":{
  "type":"list",
  "member":{"shape":"ManagedResourceSummary"}
},
"Message":{"type":"string"},
"Metadata":{
  "type":"structure",
  "members":{
    "Name":{
      "shape":"String",
      "documentation":"<p>Reserved.</p>"
    },
    "Value":{
      "shape":"String",
      "documentation":"<p>Reserved.</p>"
     }
  },
  "documentation":"<p>Reserved.</p>"
},
"MetadataList":{
  "type":"list",
  "member":{"shape":"Metadata"}
},
"OrganizationConfiguration":{
  "type":"structure",
  "required":["EnableIntegration"],
```

"members":{
"EnableIntegration":{
"shape":"Boolean",
"documentation":" Enables AWS Organization integration. "
}
},
"documentation":" Configuration information for AWS Organizations. "
},
"ProductInformation":{
"type":"structure",
"required":[
"ResourceType",
"ProductInformationFilterList"
],
"members":{
"ResourceType":{
"shape":"String",
"documentation":" Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. "
},
"ProductInformationFilterList":{
"shape":"ProductInformationFilterList",
"documentation":" Product information filters. The following filters and logical operators are supported when the resource type is <code>SSM_MANAGED</code>: <ul> <code>Application Name</code> - The name of the application. Logical operator is <code>EQUALS</code>.   <code>Application Publisher</code> - The publisher of the application. Logical operator is <code>EQUALS</code>.   <code>Application Version</code> - The version of the application. Logical operator is <code>EQUALS</code>.   <code>Platform Name</code> - The name of the platform. Logical operator is <code>EQUALS</code>.   <code>Platform Type</code> - The platform type. Logical operator is <code>EQUALS</code>.   <code>License Included</code> - The type of license included. Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>. Possible values are: <code>sql-server-enterprise</code> | <code>sql-server-standard</code> | <code>sql-server-web</code> | <code>windows-server-datacenter</code>.   The following filters and logical operators are supported when the resource type is <code>RDS</code>: <ul> <code>Engine Edition</code> - The edition of the database engine. Logical operator is <code>EQUALS</code>. Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>.   <code>License Pack</code> - The license pack. Logical operator is <code>EQUALS</code>. Possible values are: <code>data guard</code> | <code>diagnostic pack sqlt</code> | <code>tuning pack sqlt</code> | <code>ols</code> | <code>olap</code>. "
}
},
"documentation":" Describes product information for a license configuration. "
},
"ProductInformationFilter":{
"type":"structure",
"required":[
"ProductInformationFilterName",

"ProductInformationFilterValue",
"ProductInformationFilterComparator"
],
"members":{
"ProductInformationFilterName":{
"shape":"String",
"documentation":" Filter name. "
},
"ProductInformationFilterValue":{
"shape":"StringList",
"documentation":" Filter value. "
},
"ProductInformationFilterComparator":{
"shape":"String",
"documentation":" Logical operator. "
}
},
"documentation":" Describes product information filters. "
},
"ProductInformationFilterList":{
"type":"list",
"member":{"shape":"ProductInformationFilter"}
},
"ProductInformationList":{
"type":"list",
"member":{"shape":"ProductInformation"}
},
"RateLimitExceededException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"documentation":" Too many requests have been submitted. Try again after a brief wait. ",
"exception":true
},
"ResourceInventory":{
"type":"structure",
"members":{
"ResourceId":{
"shape":"String",
"documentation":" ID of the resource. "
},
"ResourceType":{
"shape":"ResourceType",
"documentation":" Type of resource. "
},
"ResourceArn":{
"shape":"String",

"documentation":" Amazon Resource Name (ARN) of the resource. "
},
"Platform":{
"shape":"String",
"documentation":" Platform of the resource. "
},
"PlatformVersion":{
"shape":"String",
"documentation":" Platform version of the resource in the inventory. "
},
"ResourceOwningAccountId":{
"shape":"String",
"documentation":" ID of the account that owns the resource. "
}
},
"documentation":" Details about a resource. "
},
"ResourceInventoryList":{
"type":"list",
"member":{"shape":"ResourceInventory"}
},
"ResourceLimitExceededException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"documentation":" Your resource limits have been exceeded. ",
"exception":true
},
"ResourceType":{
"type":"string",
"enum":[
"EC2_INSTANCE",
"EC2_HOST",
"EC2_AMI",
"RDS",
"SYSTEMS_MANAGER_MANAGED_INSTANCE"
]
},
"ServerInternalException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"documentation":" The server experienced an internal error. Try again. ",
"exception":true,
"fault":true
},

"String":{"type":"string"},
"StringList":{
  "type":"list",
  "member":{"shape":"String"}
},
"Tag":{
  "type":"structure",
  "members":{
    "Key":{
      "shape":"String",
      "documentation":" Tag key. "
     },
    "Value":{
      "shape":"String",
      "documentation":" Tag value. "
    }
  },
  "documentation":" Details about a tag for a license configuration. "
},
"TagKeyList":{
  "type":"list",
  "member":{"shape":"String"}
},
"TagList":{
  "type":"list",
  "member":{"shape":"Tag"}
},
"TagResourceRequest":{
  "type":"structure",
  "required":[
    "ResourceArn",
    "Tags"
  ],
  "members":{
    "ResourceArn":{
      "shape":"String",
      "documentation":" Amazon Resource Name (ARN) of the license configuration. "
    },
    "Tags":{
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      "documentation":" One or more tags. "
    }
  }
},
"TagResourceResponse":{
  "type":"structure",
  "members":{
  }

```
  },
  "UntagResourceRequest":{
    "type":"structure",
    "required":[
      "ResourceArn",
      "TagKeys"
    ],

    "members":{
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      },
      "TagKeys":{
        "shape":"TagKeyList",
        "documentation":"<p>Keys identifying the tags to remove.</p>"
      }
    }
  },
  "UntagResourceResponse":{
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    "members":{
    }
  },
  "UpdateLicenseConfigurationRequest":{
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    "required":["LicenseConfigurationArn"],
    "members":{
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        "shape":"String",
        "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
      },
      "LicenseConfigurationStatus":{
        "shape":"LicenseConfigurationStatus",
        "documentation":"<p>New status of the license configuration.</p>"
      },
      "LicenseRules":{
        "shape":"StringList",
        "documentation":"<p>New license rule. The only rule
that you can add after you create a license configuration is licenseAffinityToHost.</p>"
      },
      "LicenseCount":{
        "shape":"BoxLong",
        "documentation":"<p>New number of licenses managed by the license configuration.</p>"
      },
      "LicenseCountHardLimit":{
        "shape":"BoxBoolean",
        "documentation":"<p>New hard limit of the number of available licenses.</p>"
```

```
    },
    "Name":{
      "shape":"String",
      "documentation":"<p>New name of the license configuration.</p>"
    },
    "Description":{
      "shape":"String",
      "documentation":"<p>New description of the license configuration.</p>"
    },
    "ProductInformationList":{
      "shape":"ProductInformationList",
      "documentation":"<p>New product information.</p>"
    }
  }
},
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},
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    "ResourceArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the AWS resource.</p>"
    },
    "AddLicenseSpecifications":{
      "shape":"LicenseSpecifications",
      "documentation":"<p>ARNs of the license configurations to add.</p>"
    },
    "RemoveLicenseSpecifications":{
      "shape":"LicenseSpecifications",
      "documentation":"<p>ARNs of the license configurations to remove.</p>"
    }
  }
},
"UpdateLicenseSpecificationsForResourceResponse":{
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  "members":{
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},
"UpdateServiceSettingsRequest":{
  "type":"structure",
  "members":{
    "S3BucketArn":{
      "shape":"String",
```

"documentation":" Amazon Resource Name (ARN) of the Amazon S3 bucket where the License Manager information is stored. "
},

"SnsTopicArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts. "
},
"OrganizationConfiguration":{
"shape":"OrganizationConfiguration",
"documentation":" Enables integration with AWS Organizations for cross-account discovery. "
},
"EnableCrossAccountsDiscovery":{
"shape":"BoxBoolean",
"documentation":" Activates cross-account discovery. "
}
}
},
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}
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},
"documentation":"<fullname> AWS License Manager </fullname> AWS License Manager makes it easier to manage licenses from software vendors across multiple AWS accounts and on-premises servers. "
}

1.6060 etcd-api 3.5.16

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Blinker Documentation
==========

.. image:: _static/blinker-named.png
   :align: center

Blinker provides fast & simple object-to-object and broadcast
signaling for Python objects.

The core of Blinker is quite small but provides powerful features:

- a global registry of named signals
- anonymous signals
- custom name registries
- permanently or temporarily connected receivers
- automatically disconnected receivers via weak referencing
- sending arbitrary data payloads
- collecting return values from signal receivers
- thread safety

Blinker was written by Jason Kirtand and is provided under the MIT
License. The library supports Python 3.8 or later; or PyPy3.9 or later.

Decoupling With Named Signals

Named signals are created with :func:`signal`:

.. code-block:: python

```
>>> from blinker import signal
>>> initialized = signal('initialized')
>>> initialized is signal('initialized')
True
```

Every call to ``signal('name')`` returns the same signal object,
allowing unconnected parts of code (different modules, plugins,
anything) to all use the same signal without requiring any code
sharing or special imports.

Subscribing to Signals

:meth:`Signal.connect` registers a function to be invoked each time
the signal is emitted. Connected functions are always passed the
object that caused the signal to be emitted.

.. code-block:: python

```
>>> def subscriber(sender):
...     print(f"Got a signal sent by {sender!r}")
...
>>> ready = signal('ready')
>>> ready.connect(subscriber)
<function subscriber at 0x...>
```

Emitting Signals

Code producing events of interest can :meth:`Signal.send`
notifications to all connected receivers.

Below, a simple ``Processor`` class emits a ``ready`` signal when it's
about to process something, and ``complete`` when it is done. It
passes ``self``
 to the :meth:`~Signal.send` method, signifying that
that particular instance was responsible for emitting the signal.

.. code-block:: python

```
>>> class Processor:
...    def __init__(self, name):
```

```
...         self.name = name
...
...     def go(self):
...         ready = signal('ready')
...         ready.send(self)
...         print("Processing.")
...         complete = signal('complete')
...         complete.send(self)
...
...     def __repr__(self):
...         return f'<Processor {self.name}>'
...
>>> processor_a = Processor('a')
>>> processor_a.go()
Got a signal sent by <Processor a>
Processing.
```

Notice the ``complete`` signal in ``go()``? No receivers have connected to ``complete`` yet, and that's a-ok. Calling :meth:`~Signal.send` on a signal with no receivers will result in no notifications being sent, and these no-op sends are optimized to be as inexpensive as possible.

Subscribing to Specific Senders

The default connection to a signal invokes the receiver function when any sender emits it. The :meth:`Signal.connect` function accepts an optional argument to restrict the subscription to one specific sending object:

.. code-block:: python

```
>>> def b_subscriber(sender):
...     print("Caught signal from processor_b.")
...     assert sender.name == 'b'
...
>>> processor_b = Processor('b')
>>> ready.connect(b_subscriber, sender=processor_b)
<function b_subscriber at 0x...>
```

This function has been subscribed to ``ready`` but only when sent by ``processor_b``:

.. code-block:: python

```
>>> processor_a.go()
Got a signal sent by <Processor a>
Processing.
>>> processor_b.go()
Got a signal sent by <Processor b>
Caught signal from processor_b.
Processing.
```

Sending and Receiving Data Through Signals

Additional keyword arguments can be passed to :meth:`~Signal.send`.
These will in turn be passed to the connected functions:

.. code-block::
python

```
>>> send_data = signal('send-data')
>>> @send_data.connect
... def receive_data(sender, **kw):
...     print(f"Caught signal from {sender!r}, data {kw!r}")
...     return 'received!'
...
>>> result = send_data.send('anonymous', abc=123)
Caught signal from 'anonymous', data {'abc': 123}
```

The return value of :meth:`~Signal.send` collects the return values of
each connected function as a list of (``receiver function``, ``return
value``) pairs:

.. code-block:: python

```
>>> result
[(<function receive_data at 0x...>, 'received!')]
```

Muting signals

To mute a signal, as may be required when testing, the
:meth:`~Signal.muted` can be used as a context decorator:

.. code-block:: python

```
sig = signal('send-data')
with sig.muted():
    ...
```

Anonymous Signals

Signals need not be named. The :class:`Signal` constructor creates a unique signal each time it is invoked. For example, an alternative implementation of the
 Processor from above might provide the
processing signals as class attributes:

.. code-block:: python

```
>>> from blinker import Signal
>>> class AltProcessor:
...    on_ready = Signal()
...    on_complete = Signal()
...
...    def __init__(self, name):
...        self.name = name
...
...    def go(self):
...        self.on_ready.send(self)
...        print("Alternate processing.")
...        self.on_complete.send(self)
...
...    def __repr__(self):
...        return f'<AltProcessor {self.name}>'
...
```

``connect`` as a Decorator

You may have noticed the return value of :meth:`~Signal.connect` in the console output in the sections above. This allows ``connect`` to be used as a decorator on functions:

.. code-block:: python

```
>>> apc = AltProcessor('c')
>>> @apc.on_complete.connect
... def completed(sender):
...     print f"AltProcessor {sender.name} completed!"
...
>>> apc.go()
Alternate processing.
AltProcessor
```

```
c completed!
```

While convenient, this form unfortunately does not allow the ``sender`` or ``weak`` arguments to be customized for the connected function. For this, :meth:`~Signal.connect_via` can be used:

.. code-block:: python

```
>>> dice_roll = signal('dice_roll')
>>> @dice_roll.connect_via(1)
... @dice_roll.connect_via(3)
... @dice_roll.connect_via(5)
... def odd_subscriber(sender):
...     print(f"Observed dice roll {sender!r}.")
...
>>> result = dice_roll.send(3)
Observed dice roll 3.
```

Optimizing Signal Sending

Signals are optimized to send very quickly, whether receivers are connected or not. If the keyword data to be sent with a signal is expensive to compute, it can be more efficient to check to see if any receivers are connected first by testing the :attr:`~Signal.receivers` property:

.. code-block:: python

```
>>> bool(signal('ready').receivers)
True
>>> bool(signal('complete').receivers)
False
>>> bool(AltProcessor.on_complete.receivers)
 True
```

Checking for a receiver listening for a particular sender is also possible:

.. code-block:: python

```
>>> signal('ready').has_receivers_for(processor_a)
True
```

Documenting Signals

Both named and anonymous signals can be passed a ``doc`` argument at construction to set the pydoc help text for the signal. This documentation will be picked up by most documentation generators (such as sphinx) and is nice for documenting any additional data parameters that will be sent down with the signal.

See the documentation of the :obj:`receiver_connected` built-in signal for an example.

Async receivers

Receivers can be coroutine functions which can be called and awaited via the :meth:`~Signal.send_async` method:

.. code-block:: python

```
  sig = blinker.Signal()

  async def receiver():
      ...

  sig.connect(receiver)
  await sig.send_async()
```

This however requires that all receivers are awaitable which then precludes the usage
 of :meth:`~Signal.send`. To mix and match the
:meth:`~Signal.send_async` method takes a ``_sync_wrapper`` argument such as:

.. code-block:: python

```
  sig = blinker.Signal()

  def receiver():
      ...

  sig.connect(receiver)

  def wrapper(func):

      async def inner(*args, **kwargs):
          func(*args, **kwargs)

      return inner
```

```
  await sig.send_async(_sync_wrapper=wrapper)
```

The equivalent usage for :meth:`~Signal.send` is via the
``_async_wrapper`` argument. This usage is will depend on your event
loop, and in the simple case whereby you aren't running within an
event loop the following example can be used:

.. code-block:: python

```
  sig = blinker.Signal()

  async def receiver():
      ...

  sig.connect(receiver)

  def wrapper(func):

      def inner(*args, **kwargs):
          asyncio.run(func(*args, **kwargs))

      return inner

  await sig.send(_async_wrapper=wrapper)
```

Call receivers in order of registration

It
 can be advantageous to call a signal's receivers in the order they
were registered. To achieve this the storage class for receivers should
be changed from an (unordered) set to an ordered set,

.. code-block:: python

```
   from blinker import Signal
   from ordered_set import OrderedSet

   Signal.set_class = OrderedSet
```

Please note that ``ordered_set`` is a PyPI package and is not
installed with blinker.

API Documentation

All public API members can (and should) be imported from ``blinker``::

 from blinker import ANY, signal

.. currentmodule:: blinker.base

Basic Signals
++++++++++++

.. autodata:: blinker.base.ANY

.. autodata:: blinker.base.receiver_connected

.. autoclass:: Signal
  :members:
  :undoc-members:

Named Signals
++++++++++++

.. function:: signal(name, doc=None)

 Return the :class:`NamedSignal` *name*, creating it if required.

 Repeated calls to this function will return the same signal object.
 Signals are created in a global
 :class:`Namespace`.

.. autoclass:: NamedSignal
  :show-inheritance:
  :members:

.. autoclass:: Namespace
  :show-inheritance:
  :members: signal

.. autoclass:: WeakNamespace
  :show-inheritance:
  :members: signal

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=======

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1.6069 xds-go 0.0.0-20231109132714-523115ebc101

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1.6070 aws-sdk-go-v2-service-sts 1.27.0

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```
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package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-
Enterprise.html)
// .
```

```
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil,
 err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
```

```
 return err
}
err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
if err !=
nil {
 return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack);
err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "AssociateLicense",
 }
}
```

AWS SDK for Go

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name: License Scan

on: [pull_request]

```
jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
     - name: Checkout scancode
       uses: actions/checkout@v2
       with:
         repository: nexB/scancode-toolkit
         path: scancode-toolkit
         fetch-depth: 1
     - name: Set up Python ${{ matrix.python-version }}
        uses: actions/setup-python@v2
       with:
         python-version: ${{ matrix.python-version }}
     # ScanCode
     - name: Self-configure scancode
       working-directory: ./scancode-toolkit
       run: ./scancode --help
     - name: Run Scan code on target
       run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
     - name: Run Scan code on pr ref
       run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
     # compare
     - name: License test
       run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
```

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
```

```
 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
```

```
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return
 err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckInLicense",
 }
}
{
   "smithy": "2.0",
```

```
  "shapes": {
    "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
      "type": "integer"
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
      "type": "long"
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
      "type": "structure",
      "members": {
        "Name": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The type of name to filter by.</p>"
          }
        },
        "Values": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
          "traits": {
            "smithy.api#documentation": "<p>One or more values for the name to filter by.</p>"
          }
        },
        "Operator": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
           "traits": {
            "smithy.api#documentation": "<p>An operator for filtering results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>A filter object that is used to return more specific results from a describe
operation.\n      Filters can be used to match a set of resources by specific criteria.</p>"
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
      },
      "output": {
```

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the Linux subscriptions service settings. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/GetServiceSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest":
{
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " Lists the settings defined for Linux subscriptions discovery. The
settings include if\n Organizations integration has been enabled, and
which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {

"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation": " A message which details the Linux subscriptions service settings current status. "
}
},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Region in which License Manager displays the aggregated data for Linux\n subscriptions. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
"type": "structure",
"members": {
"AmiId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The AMI ID used to launch the instance. "
}
},
"InstanceID": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The instance ID of the resource. "
}
},
"InstanceType": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The instance type of the resource. "
}

},
"AccountID": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The account ID which owns the instance. "
}
},

"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of the instance. "
}
},
"Region": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The Region the instance is running in. "
}
},
"UsageOperation": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The usage operation of the instance. For more information, see For more information, see\n Usage\n operation values in the License Manager User Guide. "
}
},
"ProductCode": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",
"traits": {
"smithy.api#documentation": " The product code for the instance. For more information, see Usage\n operation values in the License Manager User Guide . "
}
},
"LastUpdatedTime": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The time in which the last discovery updated the instance details. "
}
},
"SubscriptionName": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the subscription being used by the instance. "
}
}
},
"traits": {
"smithy.api#documentation": " Details discovered information about a running instance using Linux subscriptions. "
}
},

"com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException": {
    "type": "structure",
    "members": {
        "message": {
            "target": "smithy.api#String"
        }
    },
    "traits": {
        "smithy.api#documentation": " An exception occurred with the service. ",
        "smithy.api#error": "server"
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
    "type": "service",
    "version": "2018-05-10",
    "operations": [
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
        },
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
        },
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
        },
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
        }
    ],

"traits": {
        "aws.api#service": {
            "sdkId": "License Manager Linux Subscriptions",
            "arnNamespace": "license-manager-linux-subscriptions",
            "cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
        },
        "aws.auth#sigv4": {
            "name": "license-manager-linux-subscriptions"
        },
        "aws.protocols#restJson1": {},
        "smithy.api#cors": {
            "additionalAllowedHeaders": [

"*",
"content-type",
"x-amz-content-sha256",
"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",
"x-api-key",
"authorization",
"x-amz-date",

"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"
]
},
"smithy.api#documentation": " With License Manager, you can discover and track your commercial Linux subscriptions on running\n Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager Linux Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the

configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",


```
 "type": "Boolean"
    },
    "Endpoint": {
        "builtIn": "SDK::Endpoint",
        "required": false,
        "documentation": "Override the endpoint used to send this request",
        "type": "String"
    }
},
"rules": [
    {
        "conditions": [
            {
                "fn": "isSet",
                "argv": [
                    {
                        "ref": "Endpoint"
                    }
                ]
            }
        ],
        "type": "tree",
        "rules": [
            {

              "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseFIPS"
                            },
                            true
                        ]
                    }
                ],
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
                "type": "error"
            },
            {
                "conditions": [],
                "type": "tree",
                "rules": [
                    {
```

```
"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseDualStack"
},
true
]
}
],
"error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
"type": "error"
},
{
"conditions": [],

"endpoint": {
"url": {
"ref": "Endpoint"
},
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
}
]
},
{
"conditions": [],
"type": "tree",
"rules": [
{
"conditions": [
{
"fn": "isSet",

"argv": [
{
"ref": "Region"
}
]
}
],
"type": "tree",
"rules": [
```

```
                    {
                        "conditions": [
                            {
                                "fn": "aws.partition",
                                "argv": [
                                    {
                                        "ref": "Region"
                                    }
                                ],

"assign": "PartitionResult"
                            }
                        ],
                        "type": "tree",
                        "rules": [
                            {
                                "conditions": [
                                    {
                                        "fn": "booleanEquals",
                                        "argv": [
                                            {
                                                "ref": "UseFIPS"
                                            },
                                            true
                                        ]
                                    },

                    {
                                        "fn": "booleanEquals",
                                        "argv": [
                                            {
                                                "ref": "UseDualStack"
                                            },
                                            true
                                        ]
                                    }
                                ],
                                "type": "tree",
                                "rules": [
                                    {
                                        "conditions": [
                                            {

                                        "fn": "booleanEquals",
                                                "argv": [
                                                    true,
                                                    {
                                                        "fn": "getAttr",
```

"argv": [
{
"ref": "PartitionResult"
},
"supportsFIPS"
]

}
]
},
{
"fn": "booleanEquals",
"argv": [
true,
{
"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},

"supportsDualStack"
]
}
]
}
],
"type": "tree",
"rules": [
{
"conditions": [],
"type": "tree",
"rules": [
{

"conditions": [],
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
}
]

```
},
{
"conditions": [],
"error": "FIPS and DualStack are enabled, but this partition does not support one or both",
"type": "error"
}
]
},
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
{

"ref": "UseFIPS"
},
true
]
}
],
"type": "tree",
"rules": [
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
true,

{
"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},
"supportsFIPS"
]
}
]
}
],
"type": "tree",

"rules": [
{
"conditions": [],
```

"type": "tree",
"rules": [
{
"conditions": [],
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.{Region}.{PartitionResult#dnsSuffix}",
"properties": {},
"headers": {}

},
"type": "endpoint"
}
]
}
]
},
{
"conditions": [],
"error": "FIPS is enabled but this partition does not support FIPS",
"type": "error"
}
]

},
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseDualStack"
},
true
]
}
],
"type": "tree",
"rules": [
{

"conditions": [
{
"fn": "booleanEquals",
"argv": [
true,
{
"fn": "getAttr",

"argv": [
{
"ref": "PartitionResult"
},
"supportsDualStack"
]
}
]
}
],
"type": "tree",
"rules": [
{
"conditions": [],
"type": "tree",
"rules": [
{
"conditions": [],

"endpoint": {
"url": "https://license-manager-linux-subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
}
]
},

{
"conditions": [],
"error": "DualStack is enabled but this partition does not support DualStack",
"type": "error"
}
]
},
{
"conditions": [],
"type": "tree",
"rules": [
{
"conditions": [],
"endpoint": {
"url":

"https://license-manager-linux-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
}
]
}
]
},
{
"conditions": [],
"error": "Invalid Configuration: Missing Region",
"type": "error"
}
]
}
]
},
"smithy.rules#endpointTests": {
"testCases": [
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {

"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false

```
    }
  },
  {
    "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
      }
    },
    "params": {
      "Region": "us-east-1",
      "UseFIPS": false,
       "UseDualStack": true
    }
  },
  {
    "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
      }
    },
    "params": {
      "Region": "us-east-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
    "expect": {
      "endpoint": {

    "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
      }
    },
    "params": {
      "Region": "cn-north-1",
      "UseFIPS": true,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
      }
```

```
            },
            "params": {
                "Region": "cn-north-1",
                "UseFIPS": true,
                 "UseDualStack": false
            }
        },
        {
            "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
                }
            },
            "params": {
                "Region": "cn-north-1",
                "UseFIPS": false,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint":
{
                    "url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
                }
            },
            "params": {
                "Region": "cn-north-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
                }
            },
            "params": {
                "Region": "us-gov-east-1",
                "UseFIPS": true,
                 "UseDualStack": true
            }
        },
        {
```

"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint":
{
"url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": true

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            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
                }
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": true,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
                "error": "DualStack is enabled but this partition does not support DualStack"
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": false,
                "UseDualStack": true
            }
        },
        {

"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
                }
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
            },
            "params": {
```

"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled
and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",

"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {

"url": "https://example.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",

"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,

"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips disabled and dualstack enabled",
"expect": {
"error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true,
"Endpoint": "https://example.com"

```
                }
            },
            {
                "documentation": "Missing region",
                "expect": {
                    "error": "Invalid Configuration: Missing Region"
                }

        }
            ],
            "version": "1.0"
        }
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "name": "Enabled",
                "value": "Enabled",
                "documentation": "Enabled LinuxSubscriptionsDiscovery"
            },
            {
                "name": "Disabled",
                "value": "Disabled",
                "documentation": "Disabled LinuxSubscriptionsDiscovery"
            }
        ]
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
    "type": "structure",
    "members": {
        "SourceRegions": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
            "traits": {
                "smithy.api#documentation": "<p>The Regions in which to discover data for Linux
subscriptions.</p>",
                "smithy.api#required": {}
            }
        },
        "OrganizationIntegration": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
            "traits": {
                "smithy.api#documentation": "<p>Details if you have enabled resource discovery across your
accounts in Organizations.</p>",
                "smithy.api#required": {}
```

```
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Lists the settings defined for discovering Linux subscriptions.</p>"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances": {
        "type":
 "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the running Amazon EC2 instances that were discovered with
commercial Linux\n      subscriptions.</p>",
            "smithy.api#http": {

      "code": 200,
                "method": "POST",
                "uri": "/subscription/ListLinuxSubscriptionInstances"
            },
            "smithy.api#idempotent": {},
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "Instances"
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest": {
        "type": "structure",
        "members": {
```

"Filters": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. For example, you can filter by the name of\n <code>AmiID</code> with an optional operator to see subscriptions that match, partially\n match, or don't match a certain Amazon Machine Image (AMI) ID. \n The valid names for this filter are: \n \n \n \n <code>AmiID</code>\n \n \n \n \n <code>InstanceID</code>\n \n \n \n \n <code>AccountID</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n <code>Region</code>\n \n \n \n \n <code>UsageOperation</code>\n \n \n \n \n <code>ProductCode</code>\n \n \n \n \n <code>InstanceType</code>\n \n \n \n The valid Operators for this filter are: \n \n \n \n <code>contains</code>\n \n \n \n \n <code>equals</code>\n \n \n \n \n <code>Notequal</code>\n \n \n "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "

}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. ",
"smithy.api#length": {
"min": 1,
"max": 16384
}
}
}
},
"traits": {
"smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if parameters in request increases."
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
"type": "structure",
"members": {
"Instances": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",

"traits": {
"smithy.api#documentation":
" An array that contains instance objects. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the Linux subscriptions that have been discovered. If you have linked your\n organization, the returned results will include data aggregated across your accounts in\n Organizations. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/ListLinuxSubscriptions"
},
"smithy.api#idempotent": {},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "Subscriptions"
}

```
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify. For example, you can filter by the name of\n
 <code>Subscription</code> with an optional operator to see subscriptions that match,\n      partially match, or don't
match a certain subscription's name.</p>\n         <p>The valid names for this filter are:</p>\n         <ul>\n
<li>\n              <p>\n                  <code>Subscription</code>\n              </p>\n           </li>\n         </ul>\n
<p>The valid Operators for this filter are:</p>\n
        <ul>\n           <li>\n              <p>\n                  <code>contains</code>\n              </p>\n           </li>\n
<li>\n              <p>\n                  <code>equals</code>\n              </p>\n           </li>\n           <li>\n              <p>\n
             <code>Notequal</code>\n              </p>\n           </li>\n         </ul>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>",
                    "smithy.api#length": {

                     "min": 1,
                       "max": 16384
                    }
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
        "type": "structure",
        "members": {
            "Subscriptions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
```

```
            "traits": {
                "smithy.api#documentation": "<p>An array that contains subscription objects.</p>"
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for
the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "name": "EQUAL",
                "value": "Equal",
                "documentation": "Equal operator"
            },
            {
                "name": "NOT_EQUAL",
                "value": "NotEqual",
                "documentation": "Not equal operator"
            },
            {
                "name": "CONTAINS",
                "value": "Contains",
                "documentation": "Contains operator"
            }
        ],
        "smithy.api#length": {
            "min": 1,
            "max": 20
        }
    }
},

"com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "name": "Enabled",
                "value": "Enabled",
                "documentation": "Enabled OrganizationIntegration"
```

```
            },
            {
                "name": "Disabled",
                "value": "Disabled",
                "documentation": "Disabled OrganizationIntegration"
            }
        ]
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
    "type": "list",
    "member": {
        "target": "smithy.api#String"
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [

{
                "name": "InProgress",
                "value": "InProgress",
                "documentation": "InProgress status"
            },
            {
                "name": "Completed",
                "value": "Completed",
                "documentation": "Completed status"
            },
            {
                "name": "Successful",
                "value": "Successful",
                "documentation": "Successful status"
            },
            {
                "name": "Failed",
                "value": "Failed",
                "documentation": "Failed status"
            }
        ]
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
    "type": "list",
    "member": {
        "target": "smithy.api#String",
        "traits":
```

{
"smithy.api#length": {
"min": 1,
"max": 100
}
}
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 100
},
"smithy.api#uniqueItems": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
"type": "map",
"key": {
"target": "smithy.api#String"
},
"value": {
"target": "smithy.api#String"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
"type": "structure",
"members": {
"Name": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the subscription. "

}
},
"Type": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own\n Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the\n Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS. "
}
},
"InstanceCount": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
"traits": {
"smithy.api#documentation": " The total amount of running instances using this subscription. "
}

```
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>An object which details a discovered Linux
subscription.</p>"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request was denied due to request throttling.</p>",
            "smithy.api#error": "client"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
        },

    "output": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates the service settings for Linux subscriptions.</p>",
            "smithy.api#http": {
```

"code": 200,
"method": "POST",
"uri": "/subscription/UpdateServiceSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest":
{
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Describes if the discovery of Linux subscriptions is enabled. ",
"smithy.api#required": {}
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The
settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated
from. ",

"smithy.api#required": {}
}
},
"AllowUpdate": {
"target": "smithy.api#Boolean",
"traits": {
"smithy.api#documentation": " Describes if updates are allowed to the service settings for Linux
subscriptions. If you\n allow updates, you can aggregate Linux subscription data in more than one home
Region. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},

"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation": " A message which details the Linux subscriptions service settings current status. "
}
},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Region in which License Manager displays the aggregated data for Linux\n subscriptions. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The provided input is not valid. Try your request again. ",
"smithy.api#error": "client"
}
}
}
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

```
import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //   - Beneficiary
 //   - ProductSKU
 //   - Fingerprint
 //
   - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string
```

```
 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if
 err := addProtocolFinalizerMiddlewares(stack, options, "ListLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
```

```
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}
```

```
func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:
     ServiceID,
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 //
 This member is required.
 LicenseType types.LicenseType
```

```
 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack,
 options, "DisassociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
```

```
 return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata
 {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
```

```
 return out, nil
}

type
 CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData
```

```
// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource
Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil
 {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
```

```
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
```

```
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier
 that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
```

```
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutBorrowLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
```

```
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return
err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }
```

```
 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide
 to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
 // borrow configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //
 // This member is required.
 LicenseName *string

 // Product name.
 //
```

```
 // This member is required.
 ProductName *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity
 *types.DatetimeRange

 // Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
```

```
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
 return fmt.Errorf("add
protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName:
 "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
```

```
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
```

```
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return
err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
```

```
 if err = addOpGetLicenseValidationMiddleware(stack);
 err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "GetLicense",
 }
}
```

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THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
```

```
//
  - ProductSKU
//   - Status
//   - Fingerprint
//   - IssuerName
//   - Beneficiary
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
 return err
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{},
middleware.After)
if err != nil {
 return err
}
```

```
if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack);
err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
```

```
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "ListReceivedLicenses",
 }
}
```

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```
{
  "smithy": "2.0",
  "shapes": {
```

"com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " You don't have sufficient access to perform this action. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
"type": "structure",
"members": {
"DirectoryId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The directory ID for an Active Directory identity provider. "
}
}
},
"traits": {
"smithy.api#documentation":
" Details about an Active Directory identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUser": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"

```
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Associates the user to an EC2 instance to utilize user-based
subscriptions.</p>\n        <note>\n            <p>Your estimated bill for charges on the number of users and related
costs will take 48\n        hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing
status) in Amazon Web Services Billing. For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n
        monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n        </note>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/AssociateUser"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the
 EC2 instance, which provides user-based subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>The identity provider of the user.</p>",
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"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse": {
"type": "structure",
"members": {
"InstanceUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#BoxInteger": {
"type": "integer"
},
"com.amazonaws.licensemanagerusersubscriptions#ConflictException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request couldn't be completed because it conflicted with the current state of the\n resource. ",
"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deregisters the identity provider from providing user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/DeregisterIdentityProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",

```
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse": {
    "type": "structure",
    "members": {
        "IdentityProviderSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
            "traits": {
                "smithy.api#documentation":
"<p>Metadata that describes the results of an identity provider operation.</p>",
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUser": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse"
    },
    "errors": [
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            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
         },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
```

```
        ],
        "traits": {
            "smithy.api#documentation": "<p>Disassociates the user from an EC2 instance providing user-based
subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/DisassociateUser"
            },
            "smithy.api#idempotent": {}
        }

    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation":
 "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse": {
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"type": "structure",
"members": {
"InstanceUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}
}
}
}
},

"com.amazonaws.licensemanagerusersubscriptions#Filter": {
"type": "structure",
"members": {
"Attribute": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of an attribute to use as a filter. "
}
},
"Operation": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of search (For example, eq, geq, leq) "
}
},
"Value": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Value of the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter name and value pair that is used
to return more specific results from a describe\n operation. Filters can be used to match a set of resources by
specific criteria, such as tags,\n attributes, or IDs. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
}
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
"type": "union",

"members": {
"ActiveDirectoryIdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
"traits": {
"smithy.api#documentation": " An object that details an Active Directory identity provider. "
}
}
},
"traits": {
"smithy.api#documentation":
" Details about an identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Settings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
"traits": {
"smithy.api#documentation": " An object that details the registered identity providers product
related configuration\n settings such as the subnets to provision VPC endpoints. ",
"smithy.api#required":
{}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of an identity provider. ",
"smithy.api#required": {}
}
},
"FailureMessage": {
"target": "smithy.api#String",

```
                "traits": {
                    "smithy.api#documentation": "<p>The failure message associated with an identity provider.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation":
 "<p>Describes an identity provider.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary": {
        "type": "structure",
        "members": {
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status
 of an EC2 instance resource.</p>",
                    "smithy.api#required": {}
                }
            },
            "Products": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>A list of provided user-based subscription products.</p>",
                    "smithy.api#required": {}
                }
            },
            "LastStatusCheckDate": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The date of the last status check.</p>"
                }
            },
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"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for an EC2 instance. "
}

}
},
"traits": {
"smithy.api#documentation": " Describes an EC2 instance providing user-based subscriptions. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
},
"InstanceId": {
"target": "smithy.api#String",
"traits":
{
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based
subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of a user associated with an EC2 instance. ",

"smithy.api#required": {}
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for users of an EC2 instance. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"AssociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was associated with an EC2 instance. "
}
},
"DisassociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was disassociated from an EC2 instance. "
}
}

},
"traits": {
"smithy.api#documentation": " Describes users of an EC2 instance providing user-based subscriptions. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InternalServerException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {

"smithy.api#documentation": " An exception occurred with the service. ",
"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
"type": "service",

"version": "2018-05-10",
"operations": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUser"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"

},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
}
],
"traits": {
"aws.api#service": {
"sdkId": "License Manager User Subscriptions",
"arnNamespace": "license-manager-user-subscriptions",

"cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
},
"aws.auth#sigv4": {
"name": "license-manager-user-subscriptions"
},
"aws.protocols#restJson1": {},
"smithy.api#cors": {
"additionalAllowedHeaders": [
"*",
"content-type",
"x-amz-content-sha256",
"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",
"x-api-key",
"authorization",
"x-amz-date",
"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"

]
},
"smithy.api#documentation": " With License Manager, you can create user-based subscriptions to utilize licensed software with\n a per user subscription fee on Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager User Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack

endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}

},
"rules": [
{
"conditions": [
{
"fn": "isSet",
"argv": [
{
"ref": "Endpoint"
}
]
}
],
"type": "tree",
"rules": [
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseFIPS"
},

true
]
}
],
"error": "Invalid Configuration: FIPS and custom endpoint are not supported",
"type": "error"

```
            },
            {
                "conditions": [
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                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseDualStack"
                            },
                            true
                        ]
                    }
                ],

"error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                "type": "error"
            },
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                "conditions": [],
                "endpoint": {
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                        "ref": "Endpoint"
                    },
                    "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
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{
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                    }
                ]
            }
        ],
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        "rules": [
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                    {
                        "fn": "aws.partition",
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                "argv": [
                  {
                    "ref": "Region"
                  }
                ],
                "assign": "PartitionResult"
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            ],
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                "conditions": [
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                    "fn": "booleanEquals",
                    "argv": [
                      {
                        "ref": "UseFIPS"
                      },
                      true
                    ]
                  },
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      {
                        "ref": "UseDualStack"

                      },
                      true
                    ]
                  }
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                    "conditions": [
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                        "argv": [
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                          {
                            "fn": "getAttr",

  "argv": [
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                                    "ref": "PartitionResult"
                                  },
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"supportsFIPS"
]
}
]
},
{
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"argv": [
true,
{

"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},
"supportsDualStack"
]
}
]
}
],
"type": "tree",
"rules": [
{

"conditions": [],
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
},
{
"conditions": [],
"error": "FIPS and DualStack are enabled, but this partition does not support one or both",
"type": "error"
}
]
},
{
"conditions": [
{

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                "fn": "booleanEquals",
                "argv": [
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                    "ref": "UseFIPS"
                  },
                  true
                ]
              }
            ],
            "type": "tree",

        "rules": [
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                "conditions": [
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                    "fn": "booleanEquals",
                    "argv": [
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                      {
                        "fn": "getAttr",
                        "argv": [
                          {
                            "ref": "PartitionResult"
                          },
                          "supportsFIPS"

                 ]
                      }
                    ]
                  }
                ],
                "type": "tree",
                "rules": [
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                    "conditions": [],
                    "endpoint": {
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fips.{Region}.{PartitionResult#dnsSuffix}",
                      "properties": {},
                      "headers": {}

            },
                    "type": "endpoint"
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                ]
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              {
                "conditions": [],
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                "error": "FIPS is enabled but this partition does not support FIPS",
                "type": "error"
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                "fn": "booleanEquals",
                "argv": [
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                        "ref": "UseDualStack"
                    },
                    true
                ]
            }
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                            {

                                "fn": "getAttr",
                                "argv": [
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                                        "ref": "PartitionResult"
                                    },
                                    "supportsDualStack"
                                ]
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                        ]
                    }
                ],
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                            "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                            "properties": {},
                            "headers": {}
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```
                                    },
                                    "type": "endpoint"
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                            "conditions": [],
                            "error": "DualStack is enabled but this partition does
not support DualStack",
                            "type": "error"
                        }
                    ]
                },
                {
                    "conditions": [],
                    "endpoint": {
                        "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
                        "properties": {},
                        "headers": {}
                    },
                    "type": "endpoint"
                }
            ]
        }
    ]
},
{
    "conditions":
[],
    "error": "Invalid Configuration: Missing Region",
    "type": "error"
}
]
},
"smithy.rules#endpointTests": {
    "testCases": [
        {
            "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
                }
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": true
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            }
        },
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            "documentation":
"For region us-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
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                }
            },
            "params": {
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                "UseFIPS": true,
                "UseDualStack": false
            }
        },
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            "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
                "endpoint": {
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                }
            },

        "params": {
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                "UseFIPS": false,
                "UseDualStack": true
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            "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
                }
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
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            "documentation": "For region cn-north-1 with
FIPS enabled and DualStack enabled",
            "expect": {
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"url": "https://license-manager-user-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
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"url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
}
},

"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
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{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,

"UseDualStack": false
}
},
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"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": true
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"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
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"params": {
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"UseFIPS": true,
"UseDualStack": false
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"documentation": "For region us-gov-east-1
with FIPS disabled and DualStack enabled",
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"url": "https://license-manager-user-subscriptions.us-gov-east-1.api.aws"
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"params": {
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"UseFIPS": false,
"UseDualStack": true
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"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {

"url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect":
{
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
}
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{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
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"UseDualStack":
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"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
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}
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"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but
this partition does not support one or both"
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"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
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{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
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"url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}

},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
}

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        },
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          "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
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            }
          },
           "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
          "expect": {
            "endpoint": {
              "url": "https://example.com"
            }
          },
          "params": {
            "Region": "us-east-1",
            "UseFIPS": false,
            "UseDualStack": false,
            "Endpoint": "https://example.com"
          }
        },
        {

"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
          "expect": {
            "endpoint": {
              "url": "https://example.com"
            }
          },
          "params": {
            "UseFIPS": false,
            "UseDualStack": false,
            "Endpoint": "https://example.com"
          }
        },
        {
          "documentation": "For custom endpoint with fips enabled and dualstack disabled",
          "expect": {
            "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
          },
          "params": {
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                "Region": "us-east-1",
                 "UseFIPS": true,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "For custom endpoint with fips disabled and dualstack enabled",
            "expect": {
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
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            "params": {
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                "UseFIPS": false,
                "UseDualStack": true,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "Missing region",
            "expect": {
                 "error": "Invalid Configuration: Missing Region"
            }
        }
    ],
    "version": "1.0"
  }
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {
  "type": "operation",
  "input": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
  },
  "output": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
  },
  "errors": [
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
     },
    {
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"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the identity providers for user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/ListIdentityProviders"
},
"smithy.api#paginated":
{
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "IdentityProviderSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest": {
"type": "structure",
"members": {
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse":
{
"type": "structure",

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    "members": {
      "IdentityProviderSummaries": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList",
        "traits": {
          "smithy.api#documentation": "<p>Metadata that describes the list identity providers operation.</p>",
          "smithy.api#required": {}
        }
      },
      "NextToken": {
        "target": "smithy.api#String",
        "traits": {
          "smithy.api#documentation": "<p>Token for the next set of results.</p>"
        }
      }
    }
  },
  "com.amazonaws.licensemanagerusersubscriptions#ListInstances": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
      }
    ],
    "traits": {
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"smithy.api#documentation": " Lists the EC2 instances providing user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/instance/ListInstances"
},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "InstanceSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest": {
"type": "structure",
"members": {
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
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"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse": {
"type": "structure",
"members": {
"InstanceSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list instances operation. "
}
},

"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the user-based subscription products available from an identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/ListProductSubscriptions"
},
"smithy.api#paginated": {

"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "ProductUserSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest": {
"type": "structure",
"members": {
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name
of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {

"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match
one or\n more sets of key-value pairs that you specify. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse": {

"type": "structure",
"members": {
"ProductUserSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list product subscriptions operation. "
}
},

"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists user associations for an identity provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/ListUserAssociations"
            },
            "smithy.api#paginated":
 {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "InstanceUserSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest": {
        "type": "structure",
        "members": {
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity
 provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify.</p>"
```

```
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for
the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse": {
    "type": "structure",
    "members": {
        "InstanceUserSummaries": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList",
            "traits": {
                "smithy.api#documentation": "<p>Metadata that describes the list user association operation.</p>"
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary": {
    "type": "structure",
    "members": {

    "Username": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
                "smithy.api#required": {}
            }
        },
        "Product": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                "smithy.api#required": {}
            }
        },
        "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
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"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}

},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of a product for a user. ",
"smithy.api#required": {}
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for a product for a user. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"SubscriptionStartDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The
start date of a subscription. "
}
},
"SubscriptionEndDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The end date of a subscription. "
}
}
},
"traits": {
"smithy.api#documentation": " The summary of the user-based subscription products for a user. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
}

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},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Registers an identity provider for user-based subscriptions.</p>",
        "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/identity-provider/RegisterIdentityProvider"
        },
        "smithy.api#idempotent": {}
    }
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest": {
    "type": "structure",
    "members": {
        "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
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"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Settings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings such as the\n subnets to provision VPC endpoints. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the results of an identity provider operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The resource couldn't be found. ",
"smithy.api#error": "client",
"smithy.api#httpError": 404
}
},

"com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
"type": "string",

"traits": {
"smithy.api#length": {
"min": 5,
"max": 200
},
"smithy.api#pattern": "^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request failed because a service quota is exceeded. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#Settings": {
"type": "structure",
"members": {
"Subnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation":
" The subnets defined for the registered identity provider. ",
"smithy.api#length": {
"min": 1
},
"smithy.api#required": {}
}
},
"SecurityGroupId": {
"target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
"traits": {
"smithy.api#documentation": " A security group ID that allows inbound TCP port 1688
communication between resources in\n your VPC and the VPC endpoint for activation servers. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings

such as the\n subnets to provision VPC endpoints, and the security group ID that
is associated with the VPC\n endpoints. The security group should permit inbound TCP port 1688
communication from resources\n in the VPC. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Starts a product subscription for a user with the specified identity
provider. \n <note>\n Your estimated bill for charges on the number of users and related costs
will take 48\n hours to appear for billing periods that haven't closed (marked as Pending billing status)
in Amazon Web Services Billing.
For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n monthly
charges in the Amazon Web Services Billing User Guide. \n </note>",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/StartProductSubscription"

```
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                 "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse": {
        "type": "structure",
         "members": {
            "ProductUserSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the start product subscription
operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
```

"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"

},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Stops a product subscription for a user with the specified identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/StopProductSubscription"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {

"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required":
{}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse": {
"type": "structure",
"members": {
"ProductUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
"traits": {
"smithy.api#documentation":
" Metadata that describes the start product subscription operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StringList": {
"type": "list",
"member": {
"target": "smithy.api#String"
}
},
"com.amazonaws.licensemanagerusersubscriptions#Subnet": {
"type": "string",

"traits": {
"smithy.api#pattern": "subnet-[a-z0-9]{8,17}"
}
},
"com.amazonaws.licensemanagerusersubscriptions#Subnets": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnet"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ThrottlingException": {
"type": "structure",
"members": {
"message": {

"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request was denied because of request throttling. Retry the request. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates additional product configuration settings for the registered

identity\n provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/UpdateIdentityProviderSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"UpdateSettings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings",
"traits": {
"smithy.api#documentation": " Updates the registered identity providers product related configuration settings. You can\n update any combination of settings in a single operation such as the: \n \n \n Subnets which you want to add to provision VPC endpoints. \n \n \n Subnets which you want to remove the VPC endpoints from. \n \n \n Security group ID which permits traffic to the VPC endpoints. \n \n ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#required": {}
}
}
}

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings": {
        "type": "structure",
        "members": {
            "AddSubnets": {

             "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of one or more subnets in which License Manager will
create a VPC endpoint for products that\n      require connectivity to activation servers.</p>",
                    "smithy.api#required": {}
                }
            },
            "RemoveSubnets": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of one or more subnets to remove.</p>",
                    "smithy.api#required": {}
                }
            },
            "SecurityGroupId": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
                "traits": {
                    "smithy.api#documentation": "<p>A security group ID
 that allows inbound TCP port 1688 communication between resources in\n      your VPC and the VPC endpoints for
activation servers.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Updates the registered identity providers product related configuration
settings such as\n      the subnets to provision VPC endpoints.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ValidationException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A parameter is not valid.</p>",
            "smithy.api#error": "client"
        }
    }
  }
}
```

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{
  "smithy": "2.0",
  "metadata": {
    "suppressions": [
      {
        "id": "HttpMethodSemantics",
        "namespace": "*"
      },
      {
        "id": "HttpResponseCodeSemantics",
        "namespace": "*"
      },
      {
        "id": "PaginatedTrait",
        "namespace": "*"
      },
      {
        "id": "HttpHeaderTrait",
        "namespace": "*"
      },
      {
        "id": "HttpUriConflict",
        "namespace": "*"
      },
      {
        "id": "Service",
        "namespace": "*"
      }
    ]
  },
  "shapes": {
    "com.amazonaws.licensemanager#AWSLicenseManager": {
      "type": "service",
      "version": "2018-08-01",
      "operations": [
        {
          "target": "com.amazonaws.licensemanager#AcceptGrant"
        },

 {
          "target": "com.amazonaws.licensemanager#CheckInLicense"
        },
        {
          "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
        },
        {
          "target": "com.amazonaws.licensemanager#CheckoutLicense"
        },
```

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    {
      "target": "com.amazonaws.licensemanager#CreateGrant"
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    {
      "target": "com.amazonaws.licensemanager#CreateGrantVersion"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateLicense"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateLicenseVersion"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateToken"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteGrant"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicense"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteToken"
    },
    {
      "target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

  },
    {
      "target": "com.amazonaws.licensemanager#GetAccessToken"
    },
    {
      "target": "com.amazonaws.licensemanager#GetGrant"
```

```
},
{
   "target": "com.amazonaws.licensemanager#GetLicense"
},
{
   "target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
},
{
   "target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
},
{
   "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
},
{
   "target": "com.amazonaws.licensemanager#GetLicenseUsage"
},
{
   "target": "com.amazonaws.licensemanager#GetServiceSettings"
},
{
   "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration"
 },
{
   "target": "com.amazonaws.licensemanager#ListDistributedGrants"
},
{
   "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
},
{
   "target": "com.amazonaws.licensemanager#ListLicenseConfigurations"
},
{
   "target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
},
{
   "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
},
{
   "target": "com.amazonaws.licensemanager#ListLicenses"
},
{
   "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
},
{

  "target": "com.amazonaws.licensemanager#ListLicenseVersions"
},
{
```

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        "target": "com.amazonaws.licensemanager#ListReceivedGrants"
    },
    {
        "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganization"
    },
    {
        "target": "com.amazonaws.licensemanager#ListReceivedLicenses"
    },
    {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization"
    },
    {
        "target": "com.amazonaws.licensemanager#ListResourceInventory"
    },
    {
        "target": "com.amazonaws.licensemanager#ListTagsForResource"
    },
    {
        "target": "com.amazonaws.licensemanager#ListTokens"
    },
    {
        "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
    },
    {
        "target": "com.amazonaws.licensemanager#RejectGrant"
    },
    {
        "target": "com.amazonaws.licensemanager#TagResource"
    },
    {
        "target": "com.amazonaws.licensemanager#UntagResource"
    },
    {
        "target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
    },
    {
        "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
    },
    {
        "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
    },
    {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettings"
    }
],
"traits": {
    "aws.api#service": {
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"sdkId": "License Manager",
"arnNamespace": "license-manager",
"cloudFormationName": "LicenseManager",
"cloudTrailEventSource": "licensemanager.amazonaws.com",
"endpointPrefix": "license-manager"
},
"aws.auth#sigv4": {
"name": "license-manager"
},
"aws.protocols#awsJson1_1": {},
"smithy.api#documentation": " License Manager makes it easier to manage licenses from software vendors across multiple \n Amazon Web Services accounts and on-premises servers. ",
"smithy.api#title": "AWS License Manager",
"smithy.api#xmlNamespace": {
"uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
},
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}

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    },
    "rules": [
      {
        "conditions": [
          {
            "fn": "isSet",
            "argv": [
              {
                "ref": "Endpoint"
              }
            ]

        }
        ],
        "type": "tree",
        "rules": [
          {
            "conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  {
                    "ref": "UseFIPS"
                  },
                  true
                ]
              }
            ],
            "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
            "type": "error"
          },
          {

"conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  {
                    "ref": "UseDualStack"
                  },
                  true
                ]
              }
            ],
            "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
            "type": "error"
          },
          {
```

```
                "conditions": [],
                "endpoint": {
                  "url": {
                    "ref": "Endpoint"
                  },
                  "properties": {},
                  "headers": {}
                },
                "type": "endpoint"
              }
            ]
          },
          {
            "conditions": [
              {
                "fn": "isSet",
                "argv": [
                  {
                    "ref": "Region"
                  }
                ]
              }
            ],
            "type": "tree",
            "rules": [
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                "conditions": [
                  {
                    "fn": "aws.partition",
                    "argv": [
                      {
                        "ref": "Region"
                      }
                    ],
                    "assign": "PartitionResult"
                  }
                ],
                "type": "tree",
                "rules": [
                  {
                    "conditions": [
                      {
                        "fn": "booleanEquals",
                        "argv": [
                          {
                            "ref":
"UseFIPS"
                          },
```

```
                    true
                ]
            },
            {
                "fn": "booleanEquals",
                "argv": [
                    {
                        "ref": "UseDualStack"
                    },
                    true
                ]
            }
        ],
        "type": "tree",
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            true,
                            {
                                "fn": "getAttr",
                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },
                                    "supportsFIPS"
                                ]

                }
                        ]
                    },
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            true,
                            {
                                "fn": "getAttr",
                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },

"supportsDualStack"
                                ]
                            }
                        ]
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                "type": "tree",
                "rules": [
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fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                            "properties": {},
                            "headers": {}

            },
                        "type": "endpoint"
                    }
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            },
            {
                "conditions": [],
                "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
                "type": "error"
            }
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    {
        "conditions": [
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                "fn": "booleanEquals",

          "argv": [
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                        "ref": "UseFIPS"
                    },
                    true
                ]
            }
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        "type": "tree",
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            true,
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{
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                "argv": [
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                    "ref": "PartitionResult"
                  },
                  "supportsFIPS"
                ]
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            ]
          }
        ],
        "type": "tree",
        "rules": [

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            "conditions": [],
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              "properties": {},
              "headers": {}
            },
            "type": "endpoint"
          }
        ]
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      {
        "conditions": [],
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partition does not support FIPS",
        "type": "error"
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    ]
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  {
    "conditions": [
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        "fn": "booleanEquals",
        "argv": [
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                        "argv": [
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                            "argv": [
                              {
                                "ref": "PartitionResult"
                              },

"supportsDualStack"
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                          }
                        ]
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                    ],
                    "type": "tree",
                    "rules": [
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                        "conditions": [],
                        "endpoint": {
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manager.{Region}.{PartitionResult#dualStackDnsSuffix}",
                          "properties": {},
                          "headers": {}

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                        "type": "endpoint"
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                    "conditions": [],
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                    "type": "error"
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                "conditions": [],
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                   "properties": {},
                  "headers": {}
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                    },
                    "type": "endpoint"
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            ]
        }
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    "error": "Invalid Configuration: Missing Region",
    "type": "error"
}
]
},
"smithy.rules#endpointTests": {
    "testCases": [
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            "expect": {
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{
                    "url": "https://license-manager.af-south-1.amazonaws.com"
                }
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            "params": {
                "Region": "af-south-1",
                "UseFIPS": false,
                "UseDualStack": false
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            "expect": {
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                    "url": "https://license-manager.ap-east-1.amazonaws.com"
                }
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            "params": {
                "Region": "ap-east-1",
                "UseFIPS": false,
                "UseDualStack": false
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            "documentation": "For region ap-northeast-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.ap-northeast-1.amazonaws.com"
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            }
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        "params": {
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            "UseFIPS": false,
            "UseDualStack": false
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        "expect": {
            "endpoint": {
                "url": "https://license-manager.ap-northeast-2.amazonaws.com"
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        "params": {
            "Region": "ap-northeast-2",
            "UseFIPS": false,
            "UseDualStack": false
        }
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        "documentation": "For region ap-northeast-3 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.ap-northeast-3.amazonaws.com"
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        "params": {
            "Region": "ap-northeast-3",
            "UseFIPS": false,
            "UseDualStack": false
        }

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    {
        "documentation": "For region ap-south-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.ap-south-1.amazonaws.com"
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        },
        "params": {
            "Region": "ap-south-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
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{
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"expect": {
"endpoint": {
"url": "https://license-manager.ap-southeast-1.amazonaws.com"

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"params": {
"Region": "ap-southeast-1",
"UseFIPS": false,
"UseDualStack": false
}
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{
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"url": "https://license-manager.ap-southeast-2.amazonaws.com"
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"params": {
"Region": "ap-southeast-2",
"UseFIPS": false,
"UseDualStack": false
}
},
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"documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-southeast-3.amazonaws.com"
}
},
"params": {
"Region": "ap-southeast-3",
"UseFIPS": false,
"UseDualStack": false
}
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{
"documentation": "For region ca-central-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ca-central-1.amazonaws.com"
}
},

"params": {
"Region": "ca-central-1",
"UseFIPS": false,
"UseDualStack": false
}
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{
"documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
"expect": {
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"url": "https://license-manager.eu-central-1.amazonaws.com"
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"params": {
"Region": "eu-central-1",
"UseFIPS": false,
"UseDualStack": false
}
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"documentation": "For region eu-north-1 with FIPS
disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-north-1.amazonaws.com"
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"params": {
"Region": "eu-north-1",
"UseFIPS": false,
"UseDualStack": false
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{
"documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-south-1.amazonaws.com"
}
},
"params": {
"Region":
"eu-south-1",
"UseFIPS": false,
"UseDualStack": false
}
},

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        {
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            "endpoint": {
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            }
          },
          "params": {
            "Region": "eu-west-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region eu-west-2 with FIPS disabled and DualStack disabled",
          "expect": {

          "endpoint": {
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            }
          },
          "params": {
            "Region": "eu-west-2",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region eu-west-3 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.eu-west-3.amazonaws.com"
            }
          },
          "params": {
            "Region": "eu-west-3",
            "UseFIPS": false,

"UseDualStack": false
          }
        },
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          "documentation": "For region me-south-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.me-south-1.amazonaws.com"
            }
          },
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"params": {
"Region": "me-south-1",
"UseFIPS": false,
"UseDualStack": false
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{
"documentation": "For region sa-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.sa-east-1.amazonaws.com"
}
},
"params": {
"Region": "sa-east-1",
"UseFIPS": false,
"UseDualStack": false
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{
"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false
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{
"documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {
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"url": "https://license-manager-fips.us-east-1.amazonaws.com"
}
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"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false
}
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{
"documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",

"expect": {
"endpoint": {
"url": "https://license-manager.us-east-2.amazonaws.com"
}

},
"params": {
"Region": "us-east-2",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-east-2 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-east-2.amazonaws.com"
}
},
"params": {
"Region": "us-east-2",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region
us-west-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-west-1.amazonaws.com"
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},
"params": {
"Region": "us-west-1",
"UseFIPS": false,
"UseDualStack": false
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{
"documentation": "For region us-west-1 with FIPS enabled and DualStack disabled",
"expect": {
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"params": {

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"UseFIPS": true,
"UseDualStack": false
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{
"documentation": "For region us-west-2 with FIPS disabled and DualStack disabled",
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"url": "https://license-manager.us-west-2.amazonaws.com"
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"params": {
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"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region us-west-2 with FIPS enabled and DualStack disabled",

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"UseFIPS": true,
"UseDualStack": false
}
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"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,

"UseDualStack": true
}
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{
"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",

"expect": {
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"url": "https://license-manager.us-east-1.api.aws"
}
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"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
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"url":
"https://license-manager.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-northwest-1",
"UseFIPS": false,
"UseDualStack": false

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},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
"expect": {
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"url": "https://license-manager-fips.cn-north-1.api.amazonwebservices.com.cn"
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"params": {
"Region": "cn-north-1",

"UseFIPS": true,
"UseDualStack": true
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"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
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"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": false
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"params": {
"Region": "cn-north-1",
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"UseDualStack": true
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"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-gov-east-1.amazonaws.com"
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"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
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"expect": {
"endpoint": {

"url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
}
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"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": false
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"expect": {
"endpoint": {
"url": "https://license-manager.us-gov-west-1.amazonaws.com"
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"params": {
"Region": "us-gov-west-1",
"UseFIPS": false,
"UseDualStack": false
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{
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"For region us-gov-west-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-gov-west-1.amazonaws.com"
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"params": {
"Region": "us-gov-west-1",
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"UseDualStack": false
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"expect": {
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}
},

"params": {
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"UseDualStack": true

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            "params": {
                "Region": "us-gov-east-1",
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                "UseDualStack": true
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disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
                }
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": false,
                "UseDualStack": false
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        {
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            "expect": {
                "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
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            "params": {
                "Region": "us-iso-east-1",
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                 "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
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                    "url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
                }
            },
            "params": {
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"Region": "us-iso-east-1",
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"expect": {
"error": "DualStack is enabled
but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": true
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},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": false
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{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
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"UseDualStack": true
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"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
}

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                    "expect": {
                        "error": "DualStack is enabled but this partition does not support DualStack"
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                    "params": {
                        "Region": "us-isob-east-1",
                        "UseFIPS": false,
                        "UseDualStack": true
                    }
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                    "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",

    "expect": {
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                            "url": "https://example.com"
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                        "UseFIPS": false,
                        "UseDualStack": false,
                        "Endpoint": "https://example.com"
                    }
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disabled",
                    "expect": {
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        "UseDualStack": false,
                        "Endpoint": "https://example.com"
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                    "expect": {
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                        "UseDualStack": false,
                        "Endpoint": "https://example.com"
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                    "expect": {
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                    "params": {
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                        "UseDualStack": true,
                        "Endpoint": "https://example.com"
                    }
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                    "expect": {
                        "error": "Invalid Configuration: Missing Region"
                    }
                }
            ],
            "version": "1.0"
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"com.amazonaws.licensemanager#AcceptGrant": {
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    "input": {
        "target": "com.amazonaws.licensemanager#AcceptGrantRequest"

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    "output": {
        "target": "com.amazonaws.licensemanager#AcceptGrantResponse"
    },
    "errors": [
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"target": "com.amazonaws.licensemanager#AccessDeniedException"
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"target": "com.amazonaws.licensemanager#AuthorizationException"
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"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
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"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"

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"smithy.api#documentation": " Accepts the specified grant. "
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"com.amazonaws.licensemanager#AcceptGrantRequest": {
"type": "structure",
"members": {
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"target": "com.amazonaws.licensemanager#Arn",
"traits": {
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"smithy.api#required": {}
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}
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"traits": {
"smithy.api#input": {}
}
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"com.amazonaws.licensemanager#AcceptGrantResponse": {
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"members": {
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"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant

ARN. "
}
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"Status": {
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"traits": {
"smithy.api#documentation": " Grant status. "
}
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"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
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"traits": {
"smithy.api#output": {}
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"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
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"traits": {
"aws.protocols#awsQueryError": {

"code": "ServiceAccessDenied",
"httpResponseCode": 401
},
"smithy.api#documentation": " Access to resource denied. ",
"smithy.api#error": "client",
"smithy.api#httpError": 401
}
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"com.amazonaws.licensemanager#ActivationOverrideBehavior": {
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"members": {
"DISTRIBUTED_GRANTS_ONLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DISTRIBUTED_GRANTS_ONLY"
}
},
"ALL_GRANTS_PERMITTED_BY_ISSUER": {

"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ALL_GRANTS_PERMITTED_BY_ISSUER"
}
}
}
},
"com.amazonaws.licensemanager#AllowedOperation": {

"type": "enum",
"members": {
"CREATE_GRANT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CreateGrant"
}
},
"CHECKOUT_LICENSE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CheckoutLicense"
}
},
"CHECKOUT_BORROW_LICENSE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CheckoutBorrowLicense"
}
},
"CHECK_IN_LICENSE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CheckInLicense"
}
},
"EXTEND_CONSUMPTION_LICENSE":
{
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ExtendConsumptionLicense"
}
},
"LIST_PURCHASED_LICENSES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ListPurchasedLicenses"
}
},

"CREATE_TOKEN": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CreateToken"
}
}
}
},
"com.amazonaws.licensemanager#AllowedOperationList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#AllowedOperation"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max":
7
}
}
},
"com.amazonaws.licensemanager#Arn": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 2048
},
"smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
}
},
"com.amazonaws.licensemanager#ArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
}
},
"com.amazonaws.licensemanager#AuthorizationException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError":

{
"code": "AuthorizationFailure",
"httpResponseCode": 403
},
"smithy.api#documentation": " The Amazon Web Services user account does not have permission to perform the action. Check the IAM\n policy associated with this account. ",
"smithy.api#error": "client",
"smithy.api#httpError": 403
}
},
"com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
"type": "structure",
"members": {
"LastRunTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time that automated discovery last ran. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes automated discovery. "
}
},

"com.amazonaws.licensemanager#Boolean": {
"type": "boolean",
"traits": {
"smithy.api#default": false
}
},
"com.amazonaws.licensemanager#BorrowConfiguration": {
"type": "structure",
"members": {
"AllowEarlyCheckIn": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether early check-ins are allowed. ",
"smithy.api#required": {}
}
},
"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the borrow configuration, in minutes. ",
"smithy.api#required": {}
}
}

```
},
        "traits": {
            "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#BoxBoolean": {
        "type": "boolean"
    },
    "com.amazonaws.licensemanager#BoxInteger": {
        "type": "integer"
    },
    "com.amazonaws.licensemanager#BoxLong": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#CheckInLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"

     },
            {
                "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
```

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks in the specified license. Check in a license when it is no longer
in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseRequest":
{
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",
                    "smithy.api#required": {}
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License beneficiary.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicense":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {
                "target":
"com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
        "type": "structure",
        "members":
{
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The license must
use the borrow consumption configuration.</p>",
                    "smithy.api#required": {}
                }
```

```
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements. Partial checkouts are not supported.</p>",
                    "smithy.api#required": {}
                }
            },
            "DigitalSignatureMethod": {
                "target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
                "traits": {
                    "smithy.api#documentation": "<p>Digital signature method. The possible
 value is JSON Web Signature (JWS) algorithm PS384.\n        For more information, see <a
href=\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital Signature with RSASSA-PSS</a>.</p>",
                    "smithy.api#required": {}
                }
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Node ID.</p>"
                }
            },
            "CheckoutMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about constraints.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation":
 "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
```

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},
"EntitlementsAllowed":
{
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " Allowed license entitlements. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"SignedToken": {
"target": "com.amazonaws.licensemanager#SignedToken",
"traits": {
"smithy.api#documentation": " Signed token. "
}
},
"IssuedAt": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout
is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout expires. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about constraints. "
}
}
},

"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target":
"com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks out the specified license. \n <note>\n If the
account that created the license is the same that is performing the check out, you must\n specify the account

as the beneficiary. \n </note>"
  }
},
"com.amazonaws.licensemanager#CheckoutLicenseRequest": {
  "type": "structure",
  "members": {
    "ProductSKU": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": " Product
 SKU. ",
        "smithy.api#required": {}
      }
    },
    "CheckoutType": {
      "target": "com.amazonaws.licensemanager#CheckoutType",
      "traits": {
        "smithy.api#documentation": " Checkout type. ",
        "smithy.api#required": {}
      }
    },
    "KeyFingerprint": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": " Key fingerprint identifying the license. ",
        "smithy.api#required": {}
      }
    },
    "Entitlements": {
      "target": "com.amazonaws.licensemanager#EntitlementDataList",
      "traits": {
        "smithy.api#documentation": " License entitlements. ",

"smithy.api#required": {}
      }
    },
    "ClientToken": {
      "target": "com.amazonaws.licensemanager#ClientToken",
      "traits": {
        "smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request. ",
        "smithy.api#required": {}
      }
    },
    "Beneficiary": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": " License beneficiary. "

```
            }
        },
        "NodeId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
            }
        }
    },
    "traits": {

   "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
    "type": "structure",
    "members": {
        "CheckoutType": {
            "target": "com.amazonaws.licensemanager#CheckoutType",
            "traits": {
                "smithy.api#documentation": "<p>Checkout type.</p>"
            }
        },
        "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License consumption token.</p>"
            }
        },
        "EntitlementsAllowed": {
            "target": "com.amazonaws.licensemanager#EntitlementDataList",
            "traits": {
                "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
            }
        },
         "SignedToken": {
            "target": "com.amazonaws.licensemanager#SignedToken",
            "traits": {
                "smithy.api#documentation": "<p>Signed token.</p>"
            }
        },
        "NodeId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
            }
        },
        "IssuedAt": {
```

"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and
time at which the license checkout expires. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the checkout license. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutType": {
"type": "enum",
"members": {
"PROVISIONAL": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PROVISIONAL"
}
},
"PERPETUAL": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PERPETUAL"
}
}
}
},
"com.amazonaws.licensemanager#ClientRequestToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 36
}
}

```
    },
    "com.amazonaws.licensemanager#ClientToken": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 2048
            },
            "smithy.api#pattern": "^\\S+$"
        }
    },
    "com.amazonaws.licensemanager#ConflictException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "ConflictException",
                "httpResponseCode":
 409
            },
            "smithy.api#documentation": "<p>There was a conflict processing the request. Try your request
again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 409
        }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummary": {
        "type": "structure",
        "members": {
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
                }
            },
            "ConsumedLicenses": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
                }
            }
        },
```

```
"traits": {
            "smithy.api#documentation": "<p>Details about license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
        }
    },
    "com.amazonaws.licensemanager#ConsumptionConfiguration": {
        "type": "structure",
        "members": {
            "RenewType": {
                "target": "com.amazonaws.licensemanager#RenewType",
                "traits": {
                    "smithy.api#documentation": "<p>Renewal frequency.</p>"
                }
            },
            "ProvisionalConfiguration": {
                "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
                 }
            },
            "BorrowConfiguration": {
                "target": "com.amazonaws.licensemanager#BorrowConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
```

{
"target":
"com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a grant for the specified license. A grant shares the use of license\n entitlements with a specific Amazon Web Services account, an organization, or an\n organizational unit (OU). For more
information, see Granted licenses in License Manager in the License Manager User Guide. "
}
},
"com.amazonaws.licensemanager#CreateGrantRequest": {
"type": "structure",
"members": {
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}

}
},
"LicenseArn": {

"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Principals": {
"target": "com.amazonaws.licensemanager#PrincipalArnList",
"traits": {
"smithy.api#documentation": " The grant principals. You can specify one of the following as an Amazon Resource Name\n (ARN): \n \n \n An Amazon Web Services account, which includes only the account specified. \n \n \n \n \n An organizational unit (OU), which includes all accounts in the OU. \n \n \n \n \n An organization, which will include all accounts across your organization. \n \n ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations for the grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},

"com.amazonaws.licensemanager#CreateGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},

```
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersion":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
             },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
```

```
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified grant. For more information,
see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-
licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersionRequest": {
        "type": "structure",
        "members": {
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",

  "smithy.api#required": {}
                }
            },
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>"
                }
            },
            "AllowedOperations": {
                "target": "com.amazonaws.licensemanager#AllowedOperationList",
                "traits": {
                    "smithy.api#documentation": "<p>Allowed operations for the grant.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                 "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "StatusReason": {
                "target": "com.amazonaws.licensemanager#StatusReasonMessage",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status reason.</p>"
```

```
            }
        },
        "SourceVersion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Current version of the grant.</p>"
            }
        },
        "Options": {
            "target": "com.amazonaws.licensemanager#Options",
            "traits": {
                "smithy.api#documentation": "<p>The options specified for the grant.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CreateGrantVersionResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>New version of the grant.</p>"
            }
        }
    },
    "traits":
{
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicense": {
    "type": "operation",
```

```
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a license.</p>"
    }
},
"com.amazonaws.licensemanager#CreateLicenseConfiguration": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license configuration.</p>\n        <p>A license configuration is an abstraction of a customer license agreement that can be\n        consumed and enforced by License Manager. Components include specifications for the license\n        type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n        Dedicated Instance, Dedicated Host, or all of these), license affinity  to host (how long a \n        license must be associated with a host), and the number of licenses purchased and used.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Description of the license configuration.</p>"
                }
            },
            "LicenseCountingType": {
                "target": "com.amazonaws.licensemanager#LicenseCountingType",
                "traits": {
                    "smithy.api#documentation": "<p>Dimension used to track the license inventory.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
```

"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether hard or soft license enforcement is used. Exceeding a hard limit\n blocks the launch of new instances. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules \n vary by dimension, as follows. \n \n \n \n <code>Cores</code> dimension: <code>allowedTenancy</code> |\n <code>licenseAffinityToHost</code> |\n <code>maximumCores</code> | <code>minimumCores</code>\n \n \n \n \n <code>Instances</code> dimension: <code>allowedTenancy</code> | \n <code>maximumCores</code> | <code>minimumCores</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code> |\n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n
\n <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n <code>licenseAffinityToHost</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code>\n \n \n \n \n <code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n <code>honorVcpuOptimization</code> | \n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n The unit for <code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n <code>True</code> and <code>False</code>. "
}
},

"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the license configuration. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "

```
            }
          },
          "ProductInformationList": {
            "target": "com.amazonaws.licensemanager#ProductInformationList",
            "traits": {
              "smithy.api#documentation": "<p>Product information.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse":
{
        "type": "structure",
        "members": {
          "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
           },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new license conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {

                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource you are converting
the license type for.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting
from. \n\n        For the structure of the source license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            },
            "DestinationLicenseContext":
 {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting to.
For the structure of the destination license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
```

```
    }
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
    "type": "structure",
    "members": {
        "LicenseConversionTaskId": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",

   "traits": {
                "smithy.api#documentation": "<p>The ID of the created license type conversion task.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
         },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
```

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a report generator. "
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"ReportGeneratorName":
{
"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports to generate. The following report types an be generated: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}

}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " Defines the type of license configuration the report generator tracks. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",

"traits": {
"smithy.api#documentation": " Unique,
case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the new report
generator. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseRequest": {
"type": "structure",
"members": {
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. ",
"smithy.api#required": {}
}

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            },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product
name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product SKU.</p>",
                    "smithy.api#required": {}
                }
            },
            "Issuer": {
                "target": "com.amazonaws.licensemanager#Issuer",
                "traits": {
                    "smithy.api#documentation": "<p>License issuer.</p>",
                    "smithy.api#required": {}
                }
            },
            "HomeRegion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Home Region for the license.</p>",
                    "smithy.api#required": {}

    }
            },
            "Validity": {
                "target": "com.amazonaws.licensemanager#DatetimeRange",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>",
                    "smithy.api#required": {}
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
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"traits": {
"smithy.api#documentation": " License beneficiary. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},

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        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseVersion": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
    }
```

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    },
    "com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target":
"com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "LicenseName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License name.</p>",
            "smithy.api#required": {}
          }
        },
        "ProductName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product name.</p>",
            "smithy.api#required": {}
          }
        },
        "Issuer": {
          "target": "com.amazonaws.licensemanager#Issuer",
          "traits":
{
            "smithy.api#documentation": "<p>License issuer.</p>",
            "smithy.api#required": {}
          }
        },
        "HomeRegion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Home Region of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "Validity": {
          "target": "com.amazonaws.licensemanager#DatetimeRange",
          "traits": {
            "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
            "smithy.api#required": {}
          }
```

```
            },
            "LicenseMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license.</p>"
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>",
                    "smithy.api#required": {}
                }
            },
            "ConsumptionConfiguration": {
                "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional
configuration for workloads\n         running with continuous connectivity. Choose a borrow configuration for
workloads with offline\n         usage.</p>",
                    "smithy.api#required": {}
                }
            },

   "Status": {
                "target": "com.amazonaws.licensemanager#LicenseStatus",
                "traits": {
                    "smithy.api#documentation": "<p>License status.</p>",
                    "smithy.api#required": {}
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the license.</p>"
                }
            }
        },
        "traits": {
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"smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": " License ARN. "
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": " New version of the license. "
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseStatus",
                "traits": {
                    "smithy.api#documentation": " License status. "
                }
            }
        },
        "traits": {
            "smithy.api#output":
{}
        }
    },
    "com.amazonaws.licensemanager#CreateToken": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateTokenRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateTokenResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },

{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},

{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a long-lived token. \n A refresh token is a JWT token used to get an access token. With an access token,\n you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n call License Manager to manage the specified license. "
}
},
"com.amazonaws.licensemanager#CreateTokenRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits":
{
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n JWT token. ",
"smithy.api#required": {}
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n License Manager does not check whether the roles are in use. "
}
},
"ExpirationInDays": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Token expiration, in days, counted from token creation. The default is 365 days. "
}

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            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Data specified by the caller to be included in the JWT token. The
data is mapped\n          to the amr claim of the JWT token.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Idempotency token, valid for 10 minutes.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateTokenResponse": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",

                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
            "TokenType": {
                "target": "com.amazonaws.licensemanager#TokenType",
                "traits": {
                    "smithy.api#documentation": "<p>Token type.</p>"
                }
            },
            "Token": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DateTime": {
```

```
    "type": "timestamp"
  },
  "com.amazonaws.licensemanager#DatetimeRange": {
    "type": "structure",
    "members": {
      "Begin": {
          "target": "com.amazonaws.licensemanager#ISO8601DateTime",
        "traits": {
          "smithy.api#documentation": "<p>Start of the time range.</p>",
          "smithy.api#required": {}
        }
      },
      "End": {
        "target": "com.amazonaws.licensemanager#ISO8601DateTime",
        "traits": {
          "smithy.api#documentation": "<p>End of the time range.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC format.</p>"
    }
  },
  "com.amazonaws.licensemanager#DeleteGrant": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
     },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
      },
      {
```

"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes
the specified grant. "
}
},
"com.amazonaws.licensemanager#DeleteGrantRequest": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " The Status reason for the delete request. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the
grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}

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            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
"<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"

},
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
```

"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license configuration. \n You cannot delete a license configuration that is in use. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
"type": "structure",
"members":
{
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

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            "smithy.api#documentation": "<p>ID of the license configuration.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
      "type": "structure",
      "members": {},
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
       },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target": "com.amazonaws.licensemanager#ValidationException"
```

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified report generator.</p>\n        <p>This action deletes the report generator, which stops it from generating future reports.\n        The action cannot be reversed. It has no effect on the previous reports from this generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to be deleted.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {

 "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the license.</p>",
                    "smithy.api#required":
```

{}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseResponse": {
"type": "structure",
"members": {
"Status": {
"target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"DeletionDate": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date when the license is deleted. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#DeleteToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"

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            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },

        {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteTokenRequest": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteTokenResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}

      }
    },
    "com.amazonaws.licensemanager#DigitalSignatureMethod": {
        "type": "enum",
        "members": {
            "JWT_PS384": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "JWT_PS384"
                }
```

```
            }
        }
    },
    "com.amazonaws.licensemanager#Entitlement": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement name.</p>",
                    "smithy.api#required": {}
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement resource. Use only
if the unit is None.</p>"
                }
            },
            "MaxCount": {
                "target": "com.amazonaws.licensemanager#Long",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
                }
            },
            "Overage": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether overages are allowed.</p>"
                }
            },
            "Unit": {
                "target": "com.amazonaws.licensemanager#EntitlementUnit",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement unit.</p>",
                    "smithy.api#required": {}
                }
            },
            "AllowCheckIn": {
                "target":
"com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether check-ins are allowed.</p>"
                }
            }
        },
        "traits": {
```

"smithy.api#documentation": " Describes a resource entitled for use with a license. "
}
},
"com.amazonaws.licensemanager#EntitlementData": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement data name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement
data value. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementDataUnit",
"traits": {
"smithy.api#documentation": " Entitlement data unit. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Data associated with an entitlement resource. "
}
},
"com.amazonaws.licensemanager#EntitlementDataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#EntitlementData"
}
},
"com.amazonaws.licensemanager#EntitlementDataUnit": {
"type": "enum",
"members": {
"COUNT": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Count"
}
},

"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"SECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Seconds"
}
},
"MICROSECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Microseconds"
}
},
"MILLISECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Milliseconds"
}
},
"BYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes"
}
},
"KILOBYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes"
}
},
"MEGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes"
}
},
"GIGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes"
}
},

"TERABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabytes"
}
},
"BITS":
{
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits"
}
},
"KILOBITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobits"
}
},
"MEGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits"
}
},
"GIGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits"
}
},
"TERABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits"

}
},
"PERCENT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Percent"
}
},
"BYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes/Second"

```
            }
        },
        "KILOBYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobytes/Second"
            }
        },
        "MEGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabytes/Second"
            }
        },
        "GIGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "Gigabytes/Second"
            }
        },
        "TERABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabytes/Second"
            }
        },
        "BITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bits/Second"
            }
        },
        "KILOBITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobits/Second"
            }
        },
        "MEGABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue":
"Megabits/Second"
            }
        },
        "GIGABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
```

"smithy.api#enumValue": "Gigabits/Second"
}
},
"TERABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits/Second"
}
},
"COUNT_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Count/Second"
}
}
}
},
"com.amazonaws.licensemanager#EntitlementList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Entitlement"
}
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException":
{
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The entitlement is not allowed. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#EntitlementUnit": {
"type": "enum",
"members": {
"COUNT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Count"
}
},
"NONE": {
"target": "smithy.api#Unit",

"traits": {
"smithy.api#enumValue": "None"
}
},
"SECONDS":
{
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Seconds"
}
},
"MICROSECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Microseconds"
}
},
"MILLISECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Milliseconds"
}
},
"BYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes"
}
},
"KILOBYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes"
}
},
"MEGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes"
}
},
"GIGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes"
}
},
"TERABYTES": {

"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabytes"
}
},
"BITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits"
}
},
"KILOBITS": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Kilobits"
}
},
"MEGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits"
}
},
"GIGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits"
}
},
"TERABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits"
}
},
"PERCENT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Percent"
}
},
"BYTES_PER_SECOND": {
"target":
"smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes/Second"
}

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            },
            "KILOBYTES_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Kilobytes/Second"
                }
            },
            "MEGABYTES_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Megabytes/Second"
                }
            },
            "GIGABYTES_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Gigabytes/Second"
                }
            },
            "TERABYTES_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {

"smithy.api#enumValue": "Terabytes/Second"
                }
            },
            "BITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Bits/Second"
                }
            },
            "KILOBITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Kilobits/Second"
                }
            },
            "MEGABITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Megabits/Second"
                }
            },
            "GIGABITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Gigabits/Second"
```

```
            }
        },

    "TERABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabits/Second"
            }
        },
        "COUNT_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Count/Second"
            }
        }
    }
},
"com.amazonaws.licensemanager#EntitlementUsage": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage name.</p>",
                "smithy.api#required": {}
            }
        },
        "ConsumedValue": {
            "target": "com.amazonaws.licensemanager#String",

        "traits": {
                "smithy.api#documentation": "<p>Resource usage consumed.</p>",
                "smithy.api#required": {}
            }
        },
        "MaxCount": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
            }
        },
        "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
                "smithy.api#required": {}
            }
        }
```

```
        },
        "traits": {
            "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementUsageList":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#EntitlementUsage"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumption": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
```

```
        "type": "structure",
        "members": {
          "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>License consumption token.</p>",
              "smithy.api#required": {}

      }
          },
          "DryRun": {
            "target": "com.amazonaws.licensemanager#Boolean",
            "traits": {
              "smithy.api#default": false,
              "smithy.api#documentation": "<p>Checks whether you have the required permissions for the action,
without actually making the request. Provides an error response if you do not have the required permissions.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
        "type": "structure",
        "members": {
          "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>License consumption token.</p>"
            }
          },

          "Expiration": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Date and time at which the license consumption expires.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#FailedDependencyException": {
        "type": "structure",
        "members": {
          "Message": {
```

"target": "com.amazonaws.licensemanager#Message"
},
"ErrorCode": {
"target": "com.amazonaws.licensemanager#String"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "FailedDependency",
"httpResponseCode": 424
},
"smithy.api#documentation":
" A dependency required to run the API is missing. ",
"smithy.api#error": "client",
"smithy.api#httpError": 424
}
},
"com.amazonaws.licensemanager#Filter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#FilterName",
"traits": {
"smithy.api#documentation": " Name of the filter. Filter names are case-sensitive. "
}
},
"Values": {
"target": "com.amazonaws.licensemanager#FilterValues",
"traits": {
"smithy.api#documentation": " The value of the filter, which is case-sensitive. You can only
specify one value for the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter
name and value pair that is used to return more specific results from a\n describe operation. Filters can be used
to match a set of resources by specific criteria,\n such as tags, attributes, or IDs. "
}
},
"com.amazonaws.licensemanager#FilterLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {

```
        "aws.protocols#awsQueryError": {
            "code": "FilterLimitExceeded",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The request uses too many filters or too many filter values.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#FilterList": {
    "type": "list",
     "member": {
        "target": "com.amazonaws.licensemanager#Filter"
    }
},
"com.amazonaws.licensemanager#FilterName": {
    "type": "string"
},
"com.amazonaws.licensemanager#FilterValue": {
    "type": "string"
},
"com.amazonaws.licensemanager#FilterValues": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#FilterValue",
        "traits": {
            "smithy.api#xmlName": "item"
        }
    }
},
"com.amazonaws.licensemanager#Filters": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Filter",
        "traits": {
            "smithy.api#xmlName": "item"
        }
    }
},
"com.amazonaws.licensemanager#GetAccessToken": {
    "type": "operation",
    "input": {
         "target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
    },
    "errors": [
```

```
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets a temporary access token to use with
AssumeRoleWithWebIdentity. Access
 tokens\n          are valid for one hour.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenRequest": {
        "type": "structure",
        "members": {
            "Token": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>",
                    "smithy.api#required": {}
                }
            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Token properties to validate against those present in the JWT
token.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenResponse":
 {
        "type": "structure",
        "members": {
```

```
        "AccessToken": {
            "target": "com.amazonaws.licensemanager#TokenString",
            "traits": {
                "smithy.api#documentation": "<p>Temporary access token.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#GetGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"

    },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
```

```
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
        "Grant": {
            "target": "com.amazonaws.licensemanager#Grant",
            "traits": {
                "smithy.api#documentation": "<p>Grant details.</p>"
            }
        }
    },
    "traits": {

"smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#GetLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
```

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"

},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license configuration. "

```
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits":
 {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurationId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Unique ID for the license configuration.</p>"
                }
            },
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
                }
            },
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the license configuration.</p>"
                 }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Description of the license configuration.</p>"
                }
            },
            "LicenseCountingType": {
                "target": "com.amazonaws.licensemanager#LicenseCountingType",
```

```
            "traits": {
                "smithy.api#documentation": "<p>Dimension for which the licenses are counted.</p>"
            }
        },
        "LicenseRules": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>License rules.</p>"
            }
        },
        "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",

           "traits": {
                "smithy.api#documentation": "<p>Number of available licenses.</p>"
            }
        },
        "LicenseCountHardLimit": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Sets the number of available licenses as a hard limit.</p>"
            }
        },
        "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses assigned to resources.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License configuration status.</p>"
            }

    },
        "OwnerAccountId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Account ID of the owner of the license configuration.</p>"
            }
        },
        "ConsumedLicenseSummaryList": {
            "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
            "traits": {
                "smithy.api#documentation": "<p>Summaries of the licenses consumed by resources.</p>"
            }
        },
```

```
            "ManagedResourceSummaryList": {
                "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
                "traits": {
                    "smithy.api#documentation": "<p>Summaries of the managed resources.</p>"
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                 "traits": {
                    "smithy.api#documentation": "<p>Tags for the license configuration.</p>"
                }
            },
            "ProductInformationList": {
                "target": "com.amazonaws.licensemanager#ProductInformationList",
                "traits": {
                    "smithy.api#documentation": "<p>Product information.</p>"
                }
            },
            "AutomatedDiscoveryInformation": {
                "target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
                "traits": {
                    "smithy.api#documentation": "<p>Automated discovery information.</p>"
                }
            },
            "DisassociateWhenNotFound": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>When
true, disassociates a resource when software is uninstalled.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConversionTask": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
```

{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets information about the specified license type conversion task. "
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task to retrieve information on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the resources the license conversion task is associated with. "

```
            }
        },
        "SourceLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
                "smithy.api#documentation": "<p>Information
about the license type converted from.</p>"
            }
        },
        "DestinationLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
                "smithy.api#documentation": "<p>Information about the license type converted to.</p>"
            }
        },
        "StatusMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
            "traits": {
                "smithy.api#documentation": "<p>Status of the license type conversion task.</p>"
            }
        },

  "StartTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Time at which the license type conversion task was started .</p>"
            }
        },
        "LicenseConversionTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Amount of time to complete the license type conversion.</p>"
            }
        },
        "EndTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Time at which the license type conversion task was
completed.</p>"
            }
        }
    },
```

```
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

         },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets information about the specified report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. ",
"smithy.api#required":
{}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"ReportGenerator": {
"target": "com.amazonaws.licensemanager#ReportGenerator",
"traits": {
"smithy.api#documentation": " A report generator that creates periodic reports about your license configurations. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
},
"traits": {
"smithy.api#input": {}
}

```
    },
    "com.amazonaws.licensemanager#GetLicenseResponse": {
        "type": "structure",
        "members": {
            "License": {
                "target": "com.amazonaws.licensemanager#License",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },

"com.amazonaws.licensemanager#GetLicenseUsage": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {

"target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the usage of the specified license.</p>"
        }
```

```
    },
    "com.amazonaws.licensemanager#GetLicenseUsageRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#GetLicenseUsageResponse": {
      "type": "structure",
      "members": {
        "LicenseUsage": {
          "target":
"com.amazonaws.licensemanager#LicenseUsage",
          "traits": {
            "smithy.api#documentation": "<p>License usage details.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#GetServiceSettings": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets the License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsRequest": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Regional S3 bucket path for storing reports, license trail event data,
discovery data,\n        and so on.</p>"

  }
            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>SNS topic configured to receive notifications from License
Manager.</p>"
                }
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether Organizations is integrated with License
Manager for\n        cross-account discovery.</p>"
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether cross-account discovery is enabled.</p>"
                }
```

```
        },
            "LicenseManagerResourceShareArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource share. The License
Manager management account \n        provides member accounts with access to this share.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#Grant": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {

 "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ParentArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Parent ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>License ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "GranteePrincipalArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
```

"smithy.api#documentation": " The grantee principal ARN. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"GrantStatus": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. ",
"smithy.api#required": {}
}
},
"GrantedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Granted operations. ",
"smithy.api#required": {}
}
},
"Options": {
"target": "com.amazonaws.licensemanager#Options",
"traits": {
"smithy.api#documentation": " The options specified for the grant. "
}
}
},
"traits": {
"smithy.api#documentation":

" Describes a grant. "
}
},
"com.amazonaws.licensemanager#GrantList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Grant"
}
},
"com.amazonaws.licensemanager#GrantStatus": {
"type": "enum",
"members": {
"PENDING_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_WORKFLOW"
}
},
"PENDING_ACCEPT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_ACCEPT"
}
},
"REJECTED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "REJECTED"

}
},
"ACTIVE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ACTIVE"
}
},
"FAILED_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "FAILED_WORKFLOW"
}
},
"DELETED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DELETED"
}

```
            },
            "PENDING_DELETE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_DELETE"
                }
            },
            "DISABLED": {
                "target": "smithy.api#Unit",
                "traits":
{
                    "smithy.api#enumValue": "DISABLED"
                }
            },
            "WORKFLOW_COMPLETED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "WORKFLOW_COMPLETED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GrantedLicense": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "LicenseName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License name.</p>"
                }

  },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product name.</p>"
                }
            },
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product SKU.</p>"
```

```
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
                "smithy.api#documentation": "<p>Granted license issuer.</p>"
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region of the granted license.</p>"

         }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>Granted license status.</p>"
            }
        },
        "Validity": {
            "target": "com.amazonaws.licensemanager#DatetimeRange",
            "traits": {
                "smithy.api#documentation": "<p>Date and time range during which the granted license is valid, in
ISO8601-UTC format.</p>"
            }
        },
        "Beneficiary": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Granted license beneficiary.</p>"
            }
        },
        "Entitlements": {
            "target": "com.amazonaws.licensemanager#EntitlementList",
             "traits": {
                "smithy.api#documentation": "<p>License entitlements.</p>"
            }
        },
        "ConsumptionConfiguration": {
            "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
            }
        },
        "LicenseMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
```

```
            "traits": {
                "smithy.api#documentation": "<p>Granted license metadata.</p>"
            }
        },
        "CreateTime": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Creation time of the granted license.</p>"

  }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Version of the granted license.</p>"
            }
        },
        "ReceivedMetadata": {
            "target": "com.amazonaws.licensemanager#ReceivedMetadata",
            "traits": {
                "smithy.api#documentation": "<p>Granted license received metadata.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes a license that is granted to a grantee.</p>"
    }
},
"com.amazonaws.licensemanager#GrantedLicenseList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#GrantedLicense"
    }
},
"com.amazonaws.licensemanager#ISO8601DateTime":
{
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 50
        },
        "smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-
1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[ 0-3]|[0-1][0-9]):[0-5][0-9])+$"
    }
},
"com.amazonaws.licensemanager#Integer": {
    "type": "integer"
```

```
    },
    "com.amazonaws.licensemanager#InvalidParameterValueException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidParameterValueProvided",
                "httpResponseCode": 400
            },
            "smithy.api#documentation":
 "<p>One or more parameter values are not valid.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#InvalidResourceStateException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidResourceState",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>License Manager cannot allocate a license to a resource because of its
state. </p>\n        <p>For example, you cannot allocate a license to an instance in the process of shutting\n
down.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },

    "com.amazonaws.licensemanager#InventoryFilter": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the filter.</p>",
                    "smithy.api#required": {}
                }
```

```
        },
        "Condition": {
            "target": "com.amazonaws.licensemanager#InventoryFilterCondition",
            "traits": {
                "smithy.api#documentation": "<p>Condition of the filter.</p>",
                "smithy.api#required": {}
            }
        },
        "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Value of the filter.</p>"
            }
        }

    },
    "traits": {
        "smithy.api#documentation": "<p>An inventory filter.</p>"
    }
  },
  "com.amazonaws.licensemanager#InventoryFilterCondition": {
    "type": "enum",
    "members": {
        "EQUALS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EQUALS"
            }
        },
        "NOT_EQUALS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "NOT_EQUALS"
            }
        },
        "BEGINS_WITH": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "BEGINS_WITH"
            }
        },
        "CONTAINS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "CONTAINS"
            }
        }
    }
```

```
    },
    "com.amazonaws.licensemanager#InventoryFilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#InventoryFilter"
        }
    },
    "com.amazonaws.licensemanager#Issuer": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Issuer name.</p>",
                    "smithy.api#required": {}
                }
            },
            "SignKey": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage
 of sign and verify, \n        and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about the issuer of a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#IssuerDetails": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Issuer name.</p>"
                }
            },
            "SignKey": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n        and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
                }
            },
            "KeyFingerprint": {
```

```
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Issuer key fingerprint.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details associated with the issuer of a license.</p>"
    }
},
"com.amazonaws.licensemanager#License": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
        },
        "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {

       "smithy.api#documentation": "<p>License name.</p>"
            }
        },
        "ProductName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product name.</p>"
            }
        },
        "ProductSKU": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product SKU.</p>"
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
                "smithy.api#documentation": "<p>License issuer.</p>"
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

"smithy.api#documentation": " Home Region of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"Entitlements": {

"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " License metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " License creation time. "
}
},

```
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Software license that is managed in License Manager.</p>"
    }
},
"com.amazonaws.licensemanager#LicenseConfiguration": {
    "type": "structure",
    "members": {
        "LicenseConfigurationId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Unique ID of the license configuration.</p>"
            }
        },
        "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
            }
        },
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Name of the license configuration.</p>"
            }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Description of the license configuration.</p>"
            }
        },
        "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
            "traits": {
                "smithy.api#documentation": "<p>Dimension to use to track the license inventory.</p>"
             }
        },
        "LicenseRules": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>License rules.</p>"
```

```
            }
        },
        "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
            }
        },
        "LicenseCountHardLimit": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Number of available licenses as a hard limit.</p>"
            }
        },
        "DisassociateWhenNotFound": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
             "traits": {
                "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
            }
        },
        "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses consumed. </p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Status of the license configuration.</p>"
            }
        },
        "OwnerAccountId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Account ID of the license configuration's owner.</p>"

        }
        },
        "ConsumedLicenseSummaryList": {
            "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
            "traits": {
                "smithy.api#documentation": "<p>Summaries for licenses consumed by various resources.</p>"
            }
        },
        "ManagedResourceSummaryList": {
            "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
```

"traits": {
"smithy.api#documentation": " Summaries for managed resources. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {

"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
}
},
"traits": {
"smithy.api#documentation": " A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
"type": "structure",
"members": {
"ResourceArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of server resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource consuming licenses. "
}

```
            },
            "AssociationTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {

    "smithy.api#documentation": "<p>Time when the license configuration was associated with the resource.</p>"
                }
            },
            "AmiAssociationScope": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-
account</code>.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes an association with a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationStatus": {
        "type": "enum",
        "members":
{
            "AVAILABLE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "AVAILABLE"
                }
            },
            "DISABLED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DISABLED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationUsage": {
        "type": "structure",
        "members": {
            "ResourceArn": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits":
{
"smithy.api#documentation": " Type of resource. "
}
},
"ResourceStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the account that owns the resource. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was initially associated with the resource. "
}
},

"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about the usage of a resource associated with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"

}
},
"com.amazonaws.licensemanager#LicenseConfigurations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfiguration"
}
},
"com.amazonaws.licensemanager#LicenseConversionContext": {

"type": "structure",
"members": {
"UsageOperation": {
"target": "com.amazonaws.licensemanager#UsageOperation",
"traits": {
"smithy.api#documentation": " The Usage operation value that corresponds to the license type you are converting your resource from. For more information about which platforms correspond to which usage operation values see Sample data: usage operation by platform\n \n "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTask": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {

"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " The ID of the license type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the resource associated with the license type\n conversion task. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted from. "

```
            }
        },
        "DestinationLicenseContext": {
            "target":
 "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
                "smithy.api#documentation": "<p>Information about the license type this conversion task converted
to.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
            "traits": {
                "smithy.api#documentation": "<p>The status of the conversion task.</p>"
            }
        },
        "StatusMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
            }
        },
        "StartTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation":
 "<p>The time the conversion task was started at.</p>"
            }
        },
        "LicenseConversionTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>The time the usage operation value of the resource was
changed.</p>"
            }
        },
        "EndTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>The time the conversion task was completed.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
    }
},
"com.amazonaws.licensemanager#LicenseConversionTaskId": {
```

```
        "type": "string",
        "traits": {

       "smithy.api#length": {
            "min": 0,
            "max": 50
          },
          "smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
        }
      },
      "com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
        "type": "enum",
        "members": {
          "IN_PROGRESS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "IN_PROGRESS"
            }
          },
          "SUCCEEDED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "SUCCEEDED"
            }
          },
          "FAILED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "FAILED"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#LicenseConversionTasks":
  {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#LicenseConversionTask"
        }
      },
      "com.amazonaws.licensemanager#LicenseCountingType": {
        "type": "enum",
        "members": {
          "VCPU": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "vCPU"
            }
```

```
        },
        "INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Instance"
            }
        },
        "CORE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Core"
            }
        },
        "SOCKET": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "Socket"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseDeletionStatus": {
    "type": "enum",
    "members": {
        "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#License"
    }
},
"com.amazonaws.licensemanager#LicenseOperationFailure": {

    "type": "structure",
    "members": {
```

"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Resource type. "
}
},
"ErrorMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Error message. "
}
},
"FailureTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {

"smithy.api#documentation": " Failure time. "
}
},
"OperationName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the operation. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource. "
}
},
"OperationRequestedBy": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The requester is \"License Manager Automated Discovery\". "
}
},
"MetadataList": {

"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {

"smithy.api#documentation": " Reserved. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the failure of a license operation. "
}
},
"com.amazonaws.licensemanager#LicenseOperationFailureList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseOperationFailure"
}
},
"com.amazonaws.licensemanager#LicenseSpecification": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",

"smithy.api#required": {}
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Details for associating a license configuration with a resource. "
}
},
"com.amazonaws.licensemanager#LicenseSpecifications": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseSpecification"
}
},
"com.amazonaws.licensemanager#LicenseStatus": {
"type": "enum",
"members": {
"AVAILABLE": {

"target": "smithy.api#Unit",

"traits": {
"smithy.api#enumValue": "AVAILABLE"
}
},
"PENDING_AVAILABLE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_AVAILABLE"
}
},
"DEACTIVATED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DEACTIVATED"
}
},
"SUSPENDED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "SUSPENDED"
}
},
"EXPIRED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "EXPIRED"
}
},

"PENDING_DELETE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_DELETE"
}
},
"DELETED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DELETED"
}
}
}
},
"com.amazonaws.licensemanager#LicenseUsage": {
"type": "structure",
"members": {

"EntitlementUsages": {
"target": "com.amazonaws.licensemanager#EntitlementUsageList",
"traits": {
"smithy.api#documentation": " License entitlement usages. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the entitlement usage associated with a license. "

}
},
"com.amazonaws.licensemanager#LicenseUsageException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "LicenseUsageFailure",
"httpResponseCode": 412
},
"smithy.api#documentation": " You do not have enough licenses available to support a new resource launch. ",
"smithy.api#error": "client",
"smithy.api#httpError": 412
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"

```
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the resource associations for the
 specified license configuration.</p>\n        <p>Resource associations need not consume licenses from a license
configuration. \n        For example, an AMI or a stopped instance might not consume a license (depending on \n
the license rules).</p>"
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results
 to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
        "type": "structure",
```

"members": {
"LicenseConfigurationAssociations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
"traits": {
"smithy.api#documentation": " Information about the associations for the license configuration. "
}
},
"NextToken": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the grants distributed for the specified license. "
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
"type": "structure",
"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranteePrincipalARN</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
"type": "structure",

"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",

"traits": {
"smithy.api#documentation": " Distributed grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license configuration operations that failed. "
}

```
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
      "type": "structure",
      "members": {
        "LicenseConfigurationArn": {
          "target": "com.amazonaws.licensemanager#String",
           "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name of the license configuration.</p>",
            "smithy.api#required": {}
          }
        },
        "MaxResults": {
          "target": "com.amazonaws.licensemanager#BoxInteger",
          "traits": {
            "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse":
{
      "type": "structure",
      "members": {
        "LicenseOperationFailureList": {
          "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
          "traits": {
            "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
```

```
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurations": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
        },

    "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configurations
 for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
configurations.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
```

"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next
set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical
operators\n are supported: \n \n \n \n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n
\n <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license
enforcement is used. \n Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>. \n
\n \n \n <code>usagelimitExceeded</code> - A Boolean value that
indicates whether the available licenses have been exceeded. \n Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
"type": "structure",
"members": {
"LicenseConfigurations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurations",
"traits": {
"smithy.api#documentation": " Information about the license configurations. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},

```
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseConversionTasks": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
    "type": "structure",
    "members": {
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {

"smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
```

```
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>\n        Filters to scope the results. Valid filters are
<code>ResourceArns</code> and <code>Status</code>.\n      </p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTasks": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTasks",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configuration tasks for your
 account.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target":
```

"com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the report generators for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest":
{
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported:
\n \n \n \n <code>LicenseConfigurationArn</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits":
{
"smithy.api#documentation": " Maximum number of results to return in a single call. "

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            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
        "type": "structure",
        "members": {
          "ReportGenerators": {
            "target": "com.amazonaws.licensemanager#ReportGeneratorList",
            "traits": {
              "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }

        }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
```

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Describes the license configurations for the specified resource. "
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a resource that has an associated license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {

"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
"type": "structure",
"members": {
"LicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " License configurations associated with a resource. "
}
},

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        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists all versions of the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
```

```
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
        "type": "structure",
        "members": {
          "Licenses": {
            "target": "com.amazonaws.licensemanager#LicenseList",
            "traits": {
              "smithy.api#documentation": "<p>License details.</p>"
            }
          },

"NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenses": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicensesRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicensesResponse"
        },
```

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        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists the licenses for your account.</p>"
        }
      },
      "com.amazonaws.licensemanager#ListLicensesRequest": {
        "type": "structure",
        "members": {
          "LicenseArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
            }
          },

      "Filters": {
            "target": "com.amazonaws.licensemanager#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n <ul>\n <li>\n <p>\n <code>Beneficiary</code>\n </p>\n
</li>\n <li>\n <p>\n <code>ProductSKU</code>\n </p>\n </li>\n
<li>\n <p>\n <code>Fingerprint</code>\n </p>\n </li>\n <li>\n
<p>\n <code>Status</code>\n </p>\n </li>\n </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token
```

for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicensesResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#LicenseList",
"traits": {
"smithy.api#documentation": " License details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists grants that are received. Received grants are grants created while specifying the\n recipient as this Amazon Web Services account, your organization, or an organizational unit\n (OU) to which this member account belongs. "
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganization": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},

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            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target":
 "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the grants received for all accounts in the organization.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the received license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n
    <ul>\n        <li>\n            <p>\n                <code>ParentArn</code>\n            </p>\n        </li>\n
<li>\n            <p>\n                <code>GranteePrincipalArn</code>\n            </p>\n        </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
```

"com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Lists the grants the organization has received. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
"type": "structure",
"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranterAccountId</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},

```
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
    "type": "structure",
    "members": {
        "Grants": {
            "target": "com.amazonaws.licensemanager#GrantList",
             "traits": {
                "smithy.api#documentation": "<p>Received grant details.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
         },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists received licenses.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {

    "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
```

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the licenses received for all accounts in the organization. "
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest": {
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>Beneficiary</code>\n \n \n \n \n <code>ProductSKU</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#GrantedLicenseList",
"traits": {
"smithy.api#documentation": " Lists the licenses the organization has received. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
"type": "structure",
"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},

"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>IssuerName</code>\n \n \n \n \n <code>Beneficiary</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
"type": "structure",

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    "members": {
      "Licenses": {
        "target": "com.amazonaws.licensemanager#GrantedLicenseList",
        "traits": {
          "smithy.api#documentation": "<p>Received license details.</p>"
        }
      },

      "NextToken": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Token for the next set of results.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#ListResourceInventory": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#FailedDependencyException"
      },
      {
        "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
```

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            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListResourceInventoryRequest": {
        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                 "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#InventoryFilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>account_id</code>
- The ID of the Amazon Web Services account that owns the resource.\n                Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n
            </li>\n            <li>\n                <p>\n                    <code>application_name</code> - The name of the
application. \n                Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n
    </li>\n            <li>\n                <p>\n                    <code>license_included</code> - The type of license included. \n
            Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n                Possible values
are <code>sql-server-enterprise</code> | \n                <code>sql-server-standard</code> | \n                <code>sql-
server-web</code> |  \n                <code>windows-server-datacenter</code>.</p>\n            </li>\n            <li>\n
    <p>\n                    <code>platform</code> - The platform of the resource.\n                Logical operators are
<code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n            </li>\n            <li>\n                <p>\n
        <code>resource_id</code> - The ID of the resource. \n                Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n
      <code>tag:<key></code> - The key/value combination of a tag assigned \n                to the resource. Logical
operators are <code>EQUALS</code> (single account) or\n                <code>EQUALS</code> |
<code>NOT_EQUALS</code> (cross account).</p>\n            </li>\n        </ul>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
```

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    "com.amazonaws.licensemanager#ListResourceInventoryResponse": {
      "type": "structure",
      "members": {
        "ResourceInventoryList": {
          "target": "com.amazonaws.licensemanager#ResourceInventoryList",
          "traits": {
            "smithy.api#documentation": "<p>Information
about the resources.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#ListTagsForResource": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
         },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Lists the tags for the specified license configuration.</p>"
```

```
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",

    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceResponse": {
        "type": "structure",
        "members": {
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the tags.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListTokens": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTokensRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTokensResponse"
        },
        "errors":
[
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists your tokens.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTokensRequest": {
        "type": "structure",
        "members": {
            "TokenIds": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {

                  "smithy.api#documentation": "<p>Token IDs.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filter is supported:</p>\n
    <ul>\n        <li>\n        <p>\n        <code>LicenseArns</code>\n        </p>\n        </li>\n
</ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation":
 "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
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            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListTokensResponse": {
        "type": "structure",
        "members": {
            "Tokens": {
                "target": "com.amazonaws.licensemanager#TokenList",
                "traits": {
                    "smithy.api#documentation": "<p>Received token details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying license\n consumption details by resource at a selected point in time. Use this action to audit the\n current license consumption for any license inventory and configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n are supported:</p>\n <ul>\n <li>\n <p>\n <code>resourceArn</code> - The ARN of the license configuration resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n </li>\n <li>\n <p>\n <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n </li>\n <li>\n <p>\n <code>resourceAccount</code> - The ID of the account that owns the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n </li>\n </ul>"
                }
            }
```

```
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
        "type": "structure",
        "members": {

"LicenseConfigurationUsageList": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#Location": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#Long": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#ManagedResourceSummary": {
        "type": "structure",
        "members": {
            "ResourceType":
{
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
                }
            },
            "AssociationCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
                }
            }
```

```
    },
    "traits": {
        "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
    }
},
"com.amazonaws.licensemanager#MaxSize100": {

"type": "integer",
    "traits": {
        "smithy.api#range": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#String"
    },
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 3
        }
    }
},
"com.amazonaws.licensemanager#Message": {
    "type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The key name.</p>"
            }
        },

"Value": {
            "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " The value. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes key/value pairs. "
}
},
"com.amazonaws.licensemanager#MetadataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Metadata"
}
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " There are no entitlements found for this license, or the entitlement maximum count is reached. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#Options": {
"type": "structure",
"members": {
"ActivationOverrideBehavior": {
"target": "com.amazonaws.licensemanager#ActivationOverrideBehavior",
"traits": {
"smithy.api#documentation": " An activation option for your grant that determines the behavior of activating a grant.\n Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the\n <code>Status</code> parameter. \n \n \n As a license administrator, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when activating a grant. \n \n \n As a grantor, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee\n account in your organization. \n \n \n As a grantee, if the grantor creating the distributed grant doesnt specify an\n <code>ActivationOverrideBehavior</code>, you can optionally specify one when you\n are activating the grant. \n \n \n <dl>\n <dt>DISTRIBUTED_GRANTS_ONLY</dt>\n <dd>\n Use this value to activate a grant without replacing any member accounts\n active grants for the same product. \n </dd>\n <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt>\n <dd>\n Use this value to activate a

grant and disable other active grants in any\n member accounts
for the same product. This action will also replace their\n previously activated grants with this activated grant. \n </dd>\n </dl>"
}
}
},
"traits": {
"smithy.api#documentation": " The options you can specify when you create a new version of a grant, such as activation\n override behavior. For more information, see Granted licenses in License Manager in the License Manager User Guide. "
}
},
"com.amazonaws.licensemanager#OrganizationConfiguration": {
"type": "structure",
"members": {
"EnableIntegration": {
"target": "com.amazonaws.licensemanager#Boolean",
"traits": {
"smithy.api#default": false,
"smithy.api#documentation": " Enables Organizations integration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Configuration information for Organizations. "
}
},
"com.amazonaws.licensemanager#PrincipalArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 1
}
}
},
"com.amazonaws.licensemanager#ProductInformation": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterList": {
"target": "com.amazonaws.licensemanager#ProductInformationFilterList",
"traits": {
"smithy.api#documentation": " A Product information filter consists of a <code>ProductInformationFilterComparator</code> which is a logical operator, a <code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. \n Accepted values for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. \n The following filters and are supported when the resource type \n is <code>SSM_MANAGED</code>: \n \n \n \n <code>Application Name</code> - The name of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Publisher</code> - The publisher of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Version</code> - The version of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Type</code> - The platform type.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n \n \n \n \n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n \n \n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n Possible values are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n The following filters and logical operators are supported when the resource type\n is <code>RDS</code>: \n \n \n \n <code>Engine Edition</code> - The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>. \n \n \n \n <code>License Pack</code> - The license pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n <code>diagnostic pack sqlt</code> | \n <code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n \n ",
"smithy.api#required": {}
}
}
},

```
    "traits": {
        "smithy.api#documentation": "<p>Describes product information for a license configuration.</p>"
    }
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
    "type": "structure",
    "members": {
        "ProductInformationFilterName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Filter name.</p>",
                "smithy.api#required": {}
            }
        },
        "ProductInformationFilterValue": {
            "target": "com.amazonaws.licensemanager#StringList",

      "traits": {
                "smithy.api#documentation": "<p>Filter value.</p>"
            }
        },
        "ProductInformationFilterComparator": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Logical operator.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes product information filters.</p>"
    }
},
"com.amazonaws.licensemanager#ProductInformationFilterList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformationFilter"
    }
},
"com.amazonaws.licensemanager#ProductInformationList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformation"
     }
},
"com.amazonaws.licensemanager#ProvisionalConfiguration": {
    "type": "structure",
    "members": {
```

"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the provisional configuration, in minutes. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details about a provisional configuration. "
}
},
"com.amazonaws.licensemanager#RateLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "RateLimitExceeded",
"httpResponseCode": 429
},
"smithy.api#documentation": " Too many requests have been submitted. Try again after a brief wait. ",
"smithy.api#error": "client",
"smithy.api#httpError": 429
}
},
"com.amazonaws.licensemanager#ReceivedMetadata": {
"type": "structure",
"members": {
"ReceivedStatus": {
"target": "com.amazonaws.licensemanager#ReceivedStatus",
"traits": {
"smithy.api#documentation": " Received status. "
}
},
"ReceivedStatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Received status reason. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",

```
            "traits": {
                "smithy.api#documentation": "<p>Allowed operations.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Metadata associated with received licenses and grants.</p>"
    }
},
"com.amazonaws.licensemanager#ReceivedStatus": {
    "type": "enum",
    "members": {
        "PENDING_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_WORKFLOW"
            }
        },
        "PENDING_ACCEPT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue":
"PENDING_ACCEPT"
            }
        },
        "REJECTED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "REJECTED"
            }
        },
        "ACTIVE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "ACTIVE"
            }
        },
        "FAILED_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "FAILED_WORKFLOW"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
```

```
        },
        "DISABLED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DISABLED"
            }
        },
        "WORKFLOW_COMPLETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "WORKFLOW_COMPLETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#RedirectException": {
    "type": "structure",
    "members": {
        "Location": {
            "target": "com.amazonaws.licensemanager#Location",
            "traits": {
                "smithy.api#httpHeader": "Location"
            }
        },
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 308
    }
},
"com.amazonaws.licensemanager#RejectGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#RejectGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#RejectGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target":
"com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#RejectGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}

  }
    },
    "com.amazonaws.licensemanager#RejectGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
```

"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#RenewType":
{
"type": "enum",
"members": {
"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"WEEKLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Weekly"
}
},
"MONTHLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Monthly"
}
}
}
},
"com.amazonaws.licensemanager#ReportContext": {
"type": "structure",
"members": {
"licenseConfigurationArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration that this generator reports on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details of the license configuration that this generator reports on. "
}
},
"com.amazonaws.licensemanager#ReportFrequency": {
"type": "structure",
"members": {
"value": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Number of times within the frequency period that a report is generated. \n The only supported value is <code>1</code>. "
}
},
"period": {
"target": "com.amazonaws.licensemanager#ReportFrequencyType",

"traits": {
"smithy.api#documentation": " Time period between each report. The period can be daily, weekly, or monthly. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"com.amazonaws.licensemanager#ReportFrequencyType": {
"type": "enum",
"members": {
"DAY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DAY"
}
},
"WEEK": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "WEEK"
}
},

"MONTH": {
"target": "smithy.api#Unit",
"traits":
{
"smithy.api#enumValue": "MONTH"
}
}
}
},
"com.amazonaws.licensemanager#ReportGenerator": {
"type": "structure",
"members": {
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the report generator. "
}
},
"ReportType": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports that are generated. "
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " License
configuration type for this generator. "
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. "
}
},
"LastRunStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the last report generation attempt. "
}

```
            },
            "LastRunFailureReason":
 {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Failure message for the last report generation attempt.</p>"
                }
            },
            "LastReportGenerationTime": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Time the last report was generated at.</p>"
                }
            },
            "ReportCreatorAccount": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Web Services account ID used to create the report
generator.</p>"
                }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",

        "traits": {
                    "smithy.api#documentation": "<p>Description of the report generator.</p>"
                }
            },
            "S3Location": {
                "target": "com.amazonaws.licensemanager#S3Location",
                "traits": {
                    "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
                }
            },
            "CreateTime": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Time the report was created.</p>"
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Tags associated with the report generator.</p>"
                }
```

```
}
    },
    "traits": {
        "smithy.api#documentation": "<p>Describe the details of a report generator.</p>"
    }
},
"com.amazonaws.licensemanager#ReportGeneratorList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ReportGenerator"
    }
},
"com.amazonaws.licensemanager#ReportGeneratorName": {
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#ReportType": {
    "type": "enum",
    "members": {
        "LICENSE_CONFIGURATION_SUMMARY_REPORT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "LicenseConfigurationSummaryReport"
            }

},
        "LICENSE_CONFIGURATION_USAGE_REPORT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "LicenseConfigurationUsageReport"
            }
        }
    }
},
"com.amazonaws.licensemanager#ReportTypeList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ReportType"
    }
},
"com.amazonaws.licensemanager#ResourceInventory": {
    "type": "structure",
    "members": {
```

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            "ResourceId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits":
{
                    "smithy.api#documentation": "<p>Type of resource.</p>"
                }
            },
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "Platform": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Platform of the resource.</p>"
                }
            },
            "PlatformVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Platform version of the resource in the inventory.</p>"
                }
            },
            "ResourceOwningAccountId":
{
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#ResourceInventoryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ResourceInventory"
        }
```

```
},
"com.amazonaws.licensemanager#ResourceLimitExceededException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "ResourceLimitExceeded",

            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>Your resource limits have been exceeded.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceNotFoundException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "InvalidResource.NotFound",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The resource cannot be found.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceType": {
    "type": "enum",
    "members": {
        "EC2_INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_INSTANCE"
            }
        },
        "EC2_HOST": {
            "target": "smithy.api#Unit",
            "traits": {
```

"smithy.api#enumValue": "EC2_HOST"
}
},
"EC2_AMI": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "EC2_AMI"
}
},
"RDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "RDS"
}
},
"SYSTEMS_MANAGER_MANAGED_INSTANCE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
}
}
}
},
"com.amazonaws.licensemanager#S3Location": {
"type": "structure",
"members": {
"bucket": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the S3 bucket reports are published to. "
}
},
"keyPrefix": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Prefix of the S3 bucket reports are published to. "
}
}
},
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"com.amazonaws.licensemanager#ServerInternalException": {
"type": "structure",
"members": {
"Message": {

"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InternalError",
"httpResponseCode": 500
},
"smithy.api#documentation": " The server experienced an internal error. Try again. ",
"smithy.api#error": "server",
"smithy.api#httpError": 500
}
},
"com.amazonaws.licensemanager#SignedToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 4096
}
}
},
"com.amazonaws.licensemanager#StatusReasonMessage": {
"type": "string",
"traits":
{
"smithy.api#length": {
"min": 0,
"max": 400
},
"smithy.api#pattern": "^[\\s\\S]+$"
}
},
"com.amazonaws.licensemanager#String": {
"type": "string"
},
"com.amazonaws.licensemanager#StringList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#String"
}
},
"com.amazonaws.licensemanager#Tag": {
"type": "structure",
"members": {
"Key": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Tag key. "

```
            }
          },
          "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation":
"<p>Tag value.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
      },
      "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#String"
        }
      },
      "com.amazonaws.licensemanager#TagList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#Tag"
        }
      },
      "com.amazonaws.licensemanager#TagResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#TagResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#TagResourceResponse"
        },
        "errors": [
          {
            "target":
"com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
```

```
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits":
 {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>One or more tags.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#TagResourceResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#TokenData": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
```

"TokenType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Type of token generated. The supported value is <code>REFRESH_TOKEN</code>. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"ExpirationTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Token expiration time, in ISO8601-UTC format. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller. "
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the roles included in the token. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token status. The possible values are <code>AVAILABLE</code> and <code>DELETED</code>. "
}
}
},
"traits": {

"smithy.api#documentation": " Describes a token. "
}
},
"com.amazonaws.licensemanager#TokenList": {
"type": "list",

```
        "member": {
            "target": "com.amazonaws.licensemanager#TokenData"
        }
    },
    "com.amazonaws.licensemanager#TokenString": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 4096
            },
            "smithy.api#pattern": "^\\S+$"
        }
    },
    "com.amazonaws.licensemanager#TokenType": {
        "type": "enum",
        "members": {
            "REFRESH_TOKEN": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "REFRESH_TOKEN"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException":
{
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The digital signature method is unsupported. Try your request
again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#UntagResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UntagResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UntagResourceResponse"
        },
```

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Removes the specified tags from the specified license configuration. "
}
},
"com.amazonaws.licensemanager#UntagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"TagKeys": {
"target": "com.amazonaws.licensemanager#TagKeyList",
"traits": {
"smithy.api#documentation": " Keys identifying the tags to remove. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UntagResourceResponse": {
"type": "structure",
"members": {},

"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Modifies the attributes of an existing license configuration. "
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},

"LicenseConfigurationStatus": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
"traits": {
"smithy.api#documentation": " New status of the license configuration. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {

"smithy.api#documentation": " New license rule. The only rule that you can add after you create a license\n configuration is licenseAffinityToHost. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " New number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " New hard limit of the number of available licenses. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New description of the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " New product information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",

"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
}
},
"traits":
{
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},

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            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates a report generator.</p>\n        <p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to update.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportGeneratorName": {
                "target": "com.amazonaws.licensemanager#ReportGeneratorName",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the report generator.</p>",
                    "smithy.api#required": {}
                }
            },
            "Type": {
                "target": "com.amazonaws.licensemanager#ReportTypeList",
                "traits": {
                    "smithy.api#documentation": "<p>Type of reports to generate. The following report types are supported:</p>\n        <ul>\n            <li>\n                <p>License configuration report - Reports the number and details of consumed licenses for a license configuration.</p>\n            </li>\n            <li>\n                <p>Resource report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n            </li>\n        </ul>",
                    "smithy.api#required": {}
                }
            },
            "ReportContext": {
                "target": "com.amazonaws.licensemanager#ReportContext",
                "traits": {
                    "smithy.api#documentation": "<p>The report context.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportFrequency": {
                "target": "com.amazonaws.licensemanager#ReportFrequency",
```

"traits":
{
"smithy.api#documentation": " Frequency by which reports are generated. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse":
{
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

```
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },

            {
                "target": "com.amazonaws.licensemanager#InvalidResourceStateException"
            },
            {
                "target": "com.amazonaws.licensemanager#LicenseUsageException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds or removes the specified license configurations for the specified
Amazon Web Services resource.</p>\n        <p>You can update the license specifications of AMIs, instances, and
hosts.\n        You cannot update the license specifications for launch templates and CloudFormation templates, \n
  as they send license configurations to the operation that creates the resource.</p>"
        }
    },

    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon Web Services
resource.</p>",
                    "smithy.api#required": {}
                }
            },
            "AddLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
                }
            },
            "RemoveLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation":
 "<p>ARNs of the license configurations to remove.</p>"
                }
```

```
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
    "type": "structure",
    "members": {},
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#UpdateServiceSettings": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
         },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Updates License Manager settings for the current Region.</p>"
    }
},
"com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
    "type": "structure",
    "members": {
        "S3BucketArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon S3 bucket where the License
Manager information is stored. "
}
},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {
"smithy.api#documentation": " Enables integration with Organizations for cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Activates cross-account discovery. "

}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UsageOperation": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
}
}
},
"com.amazonaws.licensemanager#ValidationException": {

```
            "type": "structure",
            "members": {
                "Message": {
                    "target": "com.amazonaws.licensemanager#Message"
                }
            },
            "traits": {
                "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",

        "smithy.api#error": "client",
                "smithy.api#httpError": 400
            }
        }
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {
```

```
 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version
 of the license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack,
 options); err != nil {
  return err
```

```
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if
 err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
```

```
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "DeleteLicense",
 }
}
```

1.6071 go-securesystemslib 0.7.0

1.6071.1 Available under license :

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OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.6072 aws-sdk-go-v2-service-sso 1.19.0

1.6072.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-
Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil,
 err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
```

```
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err !=
 nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
```

```
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack);
err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "AssociateLicense",
 }
}
```

AWS SDK for Go

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```
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
```

```
    - name: Get Target Files
      run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
    - name: Checkout scancode
      uses: actions/checkout@v2
      with:
        repository: nexB/scancode-toolkit
        path: scancode-toolkit
        fetch-depth: 1
    - name: Set up Python ${{ matrix.python-version }}
       uses: actions/setup-python@v2
      with:
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
```

```
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
```

```
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return
 err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
```

```
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "CheckInLicense",
 }
}
{
  "smithy": "2.0",
  "shapes": {
      "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
          "type": "integer"
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
          "type": "long"
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
          "type": "structure",
          "members": {
              "Name": {
                  "target": "smithy.api#String",
                  "traits": {
                      "smithy.api#documentation": "<p>The type of name to filter by.</p>"
                  }
              },
              "Values": {
                  "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
                  "traits": {
                      "smithy.api#documentation": "<p>One or more values for the name to filter by.</p>"
                  }
              },
```

"Operator": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
"traits": {
"smithy.api#documentation": " An operator for filtering results. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter object that is used to return more specific results from a describe operation.\n Filters can be used to match a set of resources by specific criteria. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
},
"output": {

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the Linux subscriptions service settings. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/GetServiceSettings"
},
"smithy.api#idempotent": {}
}
},

"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " Lists the settings defined for Linux subscriptions discovery. The settings include if\n Organizations integration has been enabled, and which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation": " A message which details the Linux subscriptions service settings current status. "
}
},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Region in which License Manager displays the aggregated data for Linux\n subscriptions. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
"type": "structure",
"members": {

"AmiId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The AMI ID used to launch the instance. "
}
},
"InstanceID": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The instance ID of the resource. "
}
},
"InstanceType": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The instance type of the resource. "
}

},
"AccountID": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The account ID which owns the instance. "
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of the instance. "
}
},
"Region": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The Region the instance is running in. "
}
},
"UsageOperation": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The usage operation of the instance. For more information, see For more information, see\n Usage\n operation values in the License Manager User Guide. "
}
},
"ProductCode": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",

"traits": {
"smithy.api#documentation": " The product code for the instance. For more information, see Usage\n operation values in the License Manager User Guide . "
}
},
"LastUpdatedTime": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The time in which the last discovery updated the instance details. "
}
},
"SubscriptionName": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the subscription being used by the instance. "
}
}
},
"traits": {
"smithy.api#documentation": " Details discovered information about a running instance using Linux subscriptions. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " An exception occurred with the service. ",
"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
"type": "service",
"version": "2018-05-10",
"operations": [
{

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
}
],

"traits": {
"aws.api#service": {
"sdkId": "License Manager Linux Subscriptions",
"arnNamespace": "license-manager-linux-subscriptions",
"cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
},
"aws.auth#sigv4": {
"name": "license-manager-linux-subscriptions"
},
"aws.protocols#restJson1": {},
"smithy.api#cors": {
"additionalAllowedHeaders": [
"*",
"content-type",
"x-amz-content-sha256",
"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",
"x-api-key",
"authorization",
"x-amz-date",

"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"
]
},
"smithy.api#documentation": "<p>With License Manager, you can discover and track your commercial

Linux subscriptions on running\n Amazon EC2 instances.</p>",
"smithy.api#title": "AWS License Manager Linux Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The
AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",

"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}
},
"rules": [
{
"conditions": [
{
"fn": "isSet",
"argv": [
{
"ref": "Endpoint"
}
]
}
],

```
"type": "tree",
"rules": [
    {

  "conditions": [
          {
            "fn": "booleanEquals",
            "argv": [
              {
                "ref": "UseFIPS"
              },
              true
            ]
          }
        ],
        "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
        "type": "error"
    },
    {
        "conditions": [],
        "type": "tree",
        "rules": [
            {

      "conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  {
                    "ref": "UseDualStack"
                  },
                  true
                ]
              }
            ],
            "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
            "type": "error"
          },
          {
            "conditions": [],

"endpoint": {
              "url": {
                "ref": "Endpoint"
              },
              "properties": {},
              "headers": {}
            },
```

```
                "type": "endpoint"
              }
            ]
          }
        ]
      },
      {
        "conditions": [],
        "type": "tree",
        "rules": [
          {
            "conditions": [
              {
                "fn": "isSet",

"argv": [
                  {
                    "ref": "Region"
                  }
                ]
              }
            ],
            "type": "tree",
            "rules": [
              {
                "conditions": [
                  {
                    "fn": "aws.partition",
                    "argv": [
                      {
                        "ref": "Region"
                      }
                    ],

"assign": "PartitionResult"
                  }
                ],
                "type": "tree",
                "rules": [
                  {
                    "conditions": [
                      {
                        "fn": "booleanEquals",
                        "argv": [
                          {
                            "ref": "UseFIPS"
                          },
                          true
```

```
                    ]
                },

            {
                    "fn": "booleanEquals",
                    "argv": [
                        {
                            "ref": "UseDualStack"
                        },
                        true
                    ]
                }
            ],
            "type": "tree",
            "rules": [
                {
                    "conditions": [
                        {

                    "fn": "booleanEquals",
                            "argv": [
                                true,
                                {
                                    "fn": "getAttr",
                                    "argv": [
                                        {
                                            "ref": "PartitionResult"
                                        },
                                        "supportsFIPS"
                                    ]

}
                            ]
                        },
                        {
                            "fn": "booleanEquals",
                            "argv": [
                                true,
                                {
                                    "fn": "getAttr",
                                    "argv": [
                                        {
                                            "ref": "PartitionResult"
                                        },

                            "supportsDualStack"
                                    ]
                                }
```

```
                    ]
                }
            ],
            "type": "tree",
            "rules": [
                {
                    "conditions": [],
                    "type": "tree",
                    "rules": [
                        {

        "conditions": [],
                            "endpoint": {
                                "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                "properties": {},
                                "headers": {}
                            },
                            "type": "endpoint"
                        }
                    ]
                }
            ]

        },
            {
                "conditions": [],
                "error": "FIPS and DualStack are enabled, but this partition does not support
one or both",
                "type": "error"
            }
        ]
    },
    {
        "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [
                    {

    "ref": "UseFIPS"
                    },
                    true
                ]
            }
        ],
        "type": "tree",
        "rules": [
```

```
{
    "conditions": [
        {
            "fn": "booleanEquals",
            "argv": [
                true,

{
                "fn": "getAttr",
                "argv": [
                    {
                        "ref": "PartitionResult"
                    },
                    "supportsFIPS"
                ]
            }
            ]
        }
    ],
    "type": "tree",

"rules": [
        {
            "conditions": [],
            "type": "tree",
            "rules": [
                {
                    "conditions": [],
                    "endpoint": {
                        "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                        "properties": {},
                        "headers": {}

                    },
                    "type": "endpoint"
                }
            ]
        }
    ]
},
{
    "conditions": [],
    "error": "FIPS is enabled but this partition does not support FIPS",
    "type": "error"
}
]
```

```
},
                    {
                      "conditions": [
                        {
                          "fn": "booleanEquals",
                          "argv": [
                            {
                              "ref": "UseDualStack"
                            },
                            true
                          ]
                        }
                      ],
                      "type": "tree",
                      "rules": [
                        {

                       "conditions": [
                            {
                              "fn": "booleanEquals",
                              "argv": [
                                true,
                                {
                                  "fn": "getAttr",
                                  "argv": [
                                    {
                                      "ref": "PartitionResult"
                                    },
                                    "supportsDualStack"
                                  ]
                                }
                              ]
                            }
                          ],
                          "type": "tree",
                          "rules": [
                            {
                              "conditions": [],
                              "type": "tree",
                              "rules": [
                                {
                                  "conditions": [],

                             "endpoint": {
                                    "url": "https://license-manager-linux-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                    "properties": {},
                                    "headers": {}
```

```
                                        },
                                        "type": "endpoint"
                                    }
                                ]
                            }
                        ]
                    },

        {
                        "conditions": [],
                        "error": "DualStack is enabled but this partition does not support DualStack",
                        "type": "error"
                    }
                ]
            },
            {
                "conditions": [],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [],
                        "endpoint": {
                            "url":
"https://license-manager-linux-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
                            "properties": {},
                            "headers": {}
                        },
                        "type": "endpoint"
                    }
                ]
            }
        ]
    }
]
},
{
    "conditions": [],
    "error": "Invalid Configuration: Missing Region",
    "type": "error"
}
]
}
]
},
"smithy.rules#endpointTests": {
    "testCases": [
        {
            "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
```

"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {

"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,

"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {

"url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint":

{
"url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint":
{
"url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": true

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    }
  },
  {
    "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
      }
    },
    "params": {
      "Region": "us-gov-east-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
    "expect": {
      "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
    },
    "params": {
      "Region": "us-iso-east-1",
      "UseFIPS": true,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
      }
    },
    "params": {
      "Region": "us-iso-east-1",
      "UseFIPS": true,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
      "error": "DualStack is enabled but this partition does not support DualStack"
    },
    "params": {
      "Region": "us-iso-east-1",
      "UseFIPS": false,
      "UseDualStack": true
```

```
                }
            },
            {

        "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
                "expect": {
                    "endpoint": {
                        "url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
                    }
                },
                "params": {
                    "Region": "us-iso-east-1",
                    "UseFIPS": false,
                    "UseDualStack": false
                }
            },
            {
                "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
                "expect": {
                    "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
                },
                "params": {

              "Region": "us-isob-east-1",
                    "UseFIPS": true,
                    "UseDualStack": true
                }
            },
            {
                "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
                "expect": {
                    "endpoint": {
                        "url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
                    }
                },
                "params": {
                    "Region": "us-isob-east-1",
                    "UseFIPS": true,
                    "UseDualStack": false
                }
            },
            {
                "documentation": "For region us-isob-east-1 with FIPS disabled
and DualStack enabled",
                "expect": {
                    "error": "DualStack is enabled but this partition does not support DualStack"
                },
                "params": {
```

"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",

"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",

"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},

```
            {
              "documentation": "For custom endpoint with fips enabled and dualstack disabled",
              "expect": {
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": false,

        "Endpoint": "https://example.com"
              }
            },
            {
              "documentation": "For custom endpoint with fips disabled and dualstack enabled",
              "expect": {
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": true,
                "Endpoint": "https://example.com"
              }
            },
            {
              "documentation": "Missing region",
              "expect": {
                "error": "Invalid Configuration: Missing Region"
              }

      }
          ],
          "version": "1.0"
        }
    }
  },
  "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
    "type": "string",
    "traits": {
      "smithy.api#enum": [
        {
          "name": "Enabled",
          "value": "Enabled",
          "documentation": "Enabled LinuxSubscriptionsDiscovery"
        },
        {
          "name": "Disabled",
```

"value": "Disabled",
"documentation": "Disabled LinuxSubscriptionsDiscovery"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
"type": "structure",
"members": {
"SourceRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Regions in which to discover data for Linux subscriptions. ",
"smithy.api#required": {}
}
},
"OrganizationIntegration": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
"traits": {
"smithy.api#documentation": " Details if you have enabled resource discovery across your accounts in Organizations. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Lists the settings defined for discovering Linux subscriptions. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the running Amazon EC2 instances that were discovered with
commercial Linux\n      subscriptions.</p>",
            "smithy.api#http": {

      "code": 200,
                "method": "POST",
                "uri": "/subscription/ListLinuxSubscriptionInstances"
            },
            "smithy.api#idempotent": {},
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "Instances"
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest": {
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify. For example, you can filter by
 the name of\n        <code>AmiID</code> with an optional operator to see subscriptions that match, partially\n
match, or don't match a certain Amazon Machine Image (AMI) ID.</p>\n        <p>The valid names for this filter
are:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>AmiID</code>\n                </p>\n
</li>\n            <li>\n                <p>\n                    <code>InstanceID</code>\n                </p>\n            </li>\n
<li>\n                <p>\n                    <code>AccountID</code>\n                </p>\n            </li>\n            <li>\n
<p>\n                    <code>Status</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>Region</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>UsageOperation</code>\n                </p>\n            </li>\n            <li>\n
    <p>\n                    <code>ProductCode</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
     <code>InstanceType</code>\n                </p>\n            </li>\n        </ul>\n        <p>The valid Operators for this
filter are:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>contains</code>\n                </p>\n
</li>\n            <li>\n                <p>\n                    <code>equals</code>\n                </p>\n            </li>\n            <li>\n
        <p>\n                    <code>Notequal</code>\n                </p>\n            </li>\n        </ul>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
```

```
}
        },
        "NextToken": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>",
            "smithy.api#length": {
              "min": 1,
              "max": 16384
            }
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
      "type": "structure",
      "members": {
        "Instances": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
          "traits": {
            "smithy.api#documentation":
 "<p>An array that contains instance objects.</p>"
          }
        },
        "NextToken": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
        },
```

{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the Linux subscriptions that have been discovered. If you have linked your\n organization, the returned results will include data aggregated across your accounts in\n Organizations. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/ListLinuxSubscriptions"
},
"smithy.api#idempotent": {},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "Subscriptions"
}

}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. For example, you can filter by the name of\n <code>Subscription</code> with an optional operator to see subscriptions that match,\n partially match, or don't match a certain subscription's name. \n The valid names for this filter are: \n \n \n \n <code>Subscription</code>\n \n \n \n The valid Operators for this filter are: \n \n \n \n <code>contains</code>\n \n \n \n \n <code>equals</code>\n \n \n \n \n <code>Notequal</code>\n \n \n "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}

```
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>",
                    "smithy.api#length": {

                     "min": 1,
                        "max": 16384
                    }
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
        "type": "structure",
        "members": {
            "Subscriptions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
                "traits": {
                    "smithy.api#documentation": "<p>An array that contains subscription objects.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for
 the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "name": "EQUAL",
                    "value": "Equal",
                    "documentation": "Equal operator"
                },
                {
                    "name": "NOT_EQUAL",
                    "value": "NotEqual",
```

"documentation": "Not equal operator"
},
{
"name": "CONTAINS",
"value": "Contains",
"documentation": "Contains operator"
}
],
"smithy.api#length": {
"min": 1,
"max": 20
}
}
},

"com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "Enabled",
"value": "Enabled",
"documentation": "Enabled OrganizationIntegration"
},
{
"name": "Disabled",
"value": "Disabled",
"documentation": "Disabled OrganizationIntegration"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
"type": "list",
"member": {
"target": "smithy.api#String"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
"type": "string",
"traits": {
"smithy.api#enum": [

{
"name": "InProgress",
"value": "InProgress",
"documentation": "InProgress status"
},

```
            {
                "name": "Completed",
                "value": "Completed",
                "documentation": "Completed status"
            },
            {
                "name": "Successful",
                "value": "Successful",
                "documentation": "Successful status"
            },
            {
                "name": "Failed",
                "value": "Failed",
                "documentation": "Failed status"
            }
        ]
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
    "type": "list",
    "member": {
        "target": "smithy.api#String",
        "traits":
{
            "smithy.api#length": {
                "min": 1,
                "max": 100
            }
        }
    },
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max": 100
        },
        "smithy.api#uniqueItems": {}
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
    "type": "map",
    "key": {
        "target": "smithy.api#String"
    },
    "value": {
        "target": "smithy.api#String"
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
```

"type": "structure",
"members": {
"Name": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the subscription. "

}
},
"Type": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own\n Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the\n Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS. "
}
},
"InstanceCount": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
"traits": {
"smithy.api#documentation": " The total amount of running instances using this subscription. "
}
}
},
"traits": {
"smithy.api#documentation": " An object which details a discovered Linux subscription. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request was denied due to request throttling. ",
"smithy.api#error": "client"
}
},

"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
},

"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates the service settings for Linux subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/UpdateServiceSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest":
{
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Describes if the discovery of Linux subscriptions is enabled. ",
"smithy.api#required": {}
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The
settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated
from. ",

"smithy.api#required": {}
}
},
"AllowUpdate": {
"target": "smithy.api#Boolean",
"traits": {
"smithy.api#documentation": " Describes if updates are allowed to the service settings for Linux subscriptions. If you\n allow updates, you can aggregate Linux subscription data in more than one home Region. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},

"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation":
" A message which details the Linux subscriptions service settings current status. "
}
},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {

"smithy.api#documentation": " The Region in which License Manager displays the aggregated data for Linux\n subscriptions. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The provided input is not valid. Try your request again. ",
"smithy.api#error": "client"
}
}
}
}

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
```

```
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //   - Beneficiary
 //   - ProductSKU
 //   - Fingerprint
 //
   - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
```

```
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
if err != nil {
 return err
}
if
err := addProtocolFinalizerMiddlewares(stack, options, "ListLicenses"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:
     ServiceID,
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
```

```
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 //
 This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
```

```
}
err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack,
options, "DisassociateLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
```

```
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata
 {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
 CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
```

```
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource
 Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil
 {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
```

```
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier
 that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData
```

```
 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutBorrowLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return
```

```
 err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager
```

```
import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide
 to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
 // borrow configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration
```

```
 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //
 // This member is required.
 LicenseName *string

 // Product name.
 //
 // This member is required.
 ProductName *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity
 *types.DatetimeRange

 // Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string
```

```
 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
  return fmt.Errorf("add
 protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
```

```
  Region:       region,
  ServiceID:     ServiceID,
  OperationName:
 "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
```

```
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return
 err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
```

```
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack);
err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
```

```
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "GetLicense",
 }
}
```

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```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
```

```
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
   - ProductSKU
 //   - Status
 //   - Fingerprint
 //   - IssuerName
 //   - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense
```

```
 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{},
 middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
```

```
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack);
 err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "ListReceivedLicenses",
```

}
}

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```
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException": {
      "type": "structure",
      "members": {
        "message": {
          "target": "smithy.api#String"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>You don't have sufficient access to perform this action.</p>",
        "smithy.api#error": "client"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
      "type": "structure",
      "members": {
        "DirectoryId": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The directory ID for an Active Directory identity provider.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation":
```

" Details about an Active Directory identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUser": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Associates the user to an EC2 instance to utilize user-based subscriptions. \n <note>\n Your estimated bill for charges on the number of users and related costs will take 48\n hours to appear for billing periods that haven't closed (marked as Pending billing status) in Amazon Web Services Billing. For more information, see Viewing your\n monthly charges in the Amazon Web Services Billing User Guide. \n </note>",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/AssociateUser"
},
"smithy.api#idempotent": {}
}

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the
EC2 instance, which provides user-based subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>The identity provider of the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse": {
        "type": "structure",
        "members": {
            "InstanceUserSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
                 "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#BoxInteger": {
        "type": "integer"
```

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#ConflictException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request couldn't be completed because it conflicted with the current
state of the\n      resource.</p>",
            "smithy.api#error": "server"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider":
 {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deregisters the identity provider from providing user-based
```

subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/DeregisterIdentityProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#documentation":
" Metadata that describes the results of an identity provider operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUser": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse"

```
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Disassociates the user from an EC2 instance providing user-based
subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/DisassociateUser"
            },
            "smithy.api#idempotent": {}
        }

    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
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"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse": {
"type": "structure",
"members": {
"InstanceUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}
}
}
}
},

"com.amazonaws.licensemanagerusersubscriptions#Filter": {
"type": "structure",
"members": {
"Attribute": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of an attribute to use as a filter. "
}
},
"Operation": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of search (For example, eq, geq, leq) "

```
                }
            },
            "Value": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Value of the filter.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A filter name and value pair that is used
 to return more specific results from a describe\n      operation. Filters can be used to match a set of resources by
specific criteria, such as tags,\n      attributes, or IDs.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#FilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
        }
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    "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
        "type": "union",
        "members": {
            "ActiveDirectoryIdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that details an Active Directory identity provider.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation":
 "<p>Details about an identity provider.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {
        "type": "structure",
        "members": {
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Settings": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
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"traits": {
"smithy.api#documentation": " An object that details the registered identity providers product related configuration\n settings such as the subnets to provision VPC endpoints. ",
"smithy.api#required":
{}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of an identity provider. ",
"smithy.api#required": {}
}
},
"FailureMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The failure message associated with an identity provider. "
}
}
},
"traits": {
"smithy.api#documentation":
" Describes an identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary"
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"com.amazonaws.licensemanagerusersubscriptions#InstanceSummary": {
"type": "structure",
"members": {
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}

```
            }
        },
        "Status": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The status
of an EC2 instance resource.</p>",
                "smithy.api#required": {}
            }
        },
        "Products": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StringList",
            "traits": {
                "smithy.api#documentation": "<p>A list of provided user-based subscription products.</p>",
                "smithy.api#required": {}
            }
        },
        "LastStatusCheckDate": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The date of the last status check.</p>"
            }
        },
        "StatusMessage": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The status message for an EC2 instance.</p>"
            }

    }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes an EC2 instance providing user-based subscriptions.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary"
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    "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
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"smithy.api#required": {}
}
},
"InstanceId": {
"target": "smithy.api#String",
"traits":
{
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of a user associated with an EC2 instance. ",
"smithy.api#required": {}
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for users of an EC2 instance. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"AssociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was associated with an EC2 instance. "
}
},
"DisassociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was disassociated from an EC2 instance. "

```
            }
          }

  },
        "traits": {
          "smithy.api#documentation": "<p>Describes users of an EC2 instance providing user-based
subscriptions.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InternalServerException": {
        "type": "structure",
        "members": {
          "message": {
            "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
          "smithy.api#error": "server"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
        "type": "service",

       "version": "2018-05-10",
        "operations": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUser"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
          },
          {
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"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"

},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
}
],
"traits": {
"aws.api#service": {
"sdkId": "License Manager User Subscriptions",
"arnNamespace": "license-manager-user-subscriptions",
"cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
},
"aws.auth#sigv4": {
"name": "license-manager-user-subscriptions"
},
"aws.protocols#restJson1": {},
"smithy.api#cors": {
"additionalAllowedHeaders": [
"*",
"content-type",
"x-amz-content-sha256",
"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",
"x-api-key",
"authorization",
"x-amz-date",
"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",

"x-amzn-requestid",
"x-amzn-trace-id"

]
},
"smithy.api#documentation": " With License Manager, you can create user-based subscriptions to utilize licensed software with\n a per user subscription fee on Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager User Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}

},
"rules": [
{
"conditions": [
{
"fn": "isSet",
"argv": [
{

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                "ref": "Endpoint"
            }
        ]
    }
],
"type": "tree",
"rules": [
    {
        "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [
                    {
                        "ref": "UseFIPS"
                    },

                true
                ]
            }
        ],
        "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
        "type": "error"
    },
    {
        "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [
                    {
                        "ref": "UseDualStack"
                    },
                    true
                ]
            }
        ],

"error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
        "type": "error"
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        "conditions": [],
        "endpoint": {
            "url": {
                "ref": "Endpoint"
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            "properties": {},
            "headers": {}
        },
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                "type": "endpoint"
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                "argv": [

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                    "ref": "Region"
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                ]
            }
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        "type": "tree",
        "rules": [
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                "conditions": [
                    {
                        "fn": "aws.partition",
                        "argv": [
                            {
                                "ref": "Region"
                            }
                        ],
                        "assign": "PartitionResult"
                    }
                ],
                "type": "tree",

"rules": [
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                                "fn": "booleanEquals",
                                "argv": [
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                                        "ref": "UseFIPS"
                                    },
                                    true
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                                "fn": "booleanEquals",
                                "argv": [
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"ref": "UseDualStack"

},
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]
}
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"type": "tree",
"rules": [
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"conditions": [
{
"fn": "booleanEquals",
"argv": [
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{
"fn": "getAttr",

"argv": [
{
"ref": "PartitionResult"
},
"supportsFIPS"
]
}
]
},
{
"fn": "booleanEquals",
"argv": [
true,
{

"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},
"supportsDualStack"
]
}
]
}
],
"type": "tree",
"rules": [
{

"conditions": [],
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
},
{
"conditions": [],
"error": "FIPS and DualStack are enabled, but this partition does not support one or both",
"type": "error"
}
]
},
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseFIPS"
},
true
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],
"type": "tree",

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"fn": "booleanEquals",
"argv": [
true,
{
"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},
"supportsFIPS"

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                    ]
                        }
                    ]
                }
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            "type": "tree",
            "rules": [
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                    "conditions": [],
                    "endpoint": {
                        "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                        "properties": {},
                        "headers": {}

        },
                    "type": "endpoint"
                }
            ]
        },
        {
            "conditions": [],
            "error": "FIPS is enabled but this partition does not support FIPS",
            "type": "error"
        }
    ]
},
{
    "conditions": [
        {
            "fn": "booleanEquals",
            "argv": [
                {
                    "ref": "UseDualStack"
                },
                true
            ]
        }
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            "conditions": [
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                    "argv": [
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                        {
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"argv": [
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"ref": "PartitionResult"
},
"supportsDualStack"
]
}
]
}
],
"type": "tree",
"rules": [
{

"conditions": [],
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"url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
},
{
"conditions": [],
"error": "DualStack is enabled but this partition does
not support DualStack",
"type": "error"
}
]
},
{
"conditions": [],
"endpoint": {
"url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
}
]

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                },
                {
                    "conditions":
[],
                    "error": "Invalid Configuration: Missing Region",
                    "type": "error"
                }
            ]
        },
        "smithy.rules#endpointTests": {
            "testCases": [
                {
                    "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
                    "expect": {
                        "endpoint": {
                            "url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
                        }
                    },
                    "params": {
                        "Region": "us-east-1",
                        "UseFIPS": true,
                        "UseDualStack": true
                    }
                },
                {
                    "documentation":
"For region us-east-1 with FIPS enabled and DualStack disabled",
                    "expect": {
                        "endpoint": {
                            "url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
                        }
                    },
                    "params": {
                        "Region": "us-east-1",
                        "UseFIPS": true,
                        "UseDualStack": false
                    }
                },
                {
                    "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
                    "expect": {
                        "endpoint": {
                            "url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
                        }
                    },

                "params": {
                        "Region": "us-east-1",
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"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with
FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.cn-north-
1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
}
},

"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",

"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1
with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",

"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1
with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect":
{
"endpoint": {

"url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack":
true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
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this partition does not support one or both"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",

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            "expect": {
              "endpoint": {
                "url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
              }
            },
            "params": {
              "Region": "us-isob-east-1",
              "UseFIPS": true,
              "UseDualStack": false
            }

        },
        {
            "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
              "error": "DualStack is enabled but this partition does not support DualStack"
            },
            "params": {
              "Region": "us-isob-east-1",
              "UseFIPS": false,
              "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
              }
            },
             "params": {
              "Region": "us-isob-east-1",
              "UseFIPS": false,
              "UseDualStack": false
            }
        },
        {
            "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
            "expect": {
              "endpoint": {
                "url": "https://example.com"
              }
            },
            "params": {
              "Region": "us-east-1",
              "UseFIPS": false,
              "UseDualStack": false,
              "Endpoint": "https://example.com"
```

```
            }
        },
        {

"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://example.com"
                }
            },
            "params": {
                "UseFIPS": false,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "For custom endpoint with fips enabled and dualstack disabled",
            "expect": {
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
            },
            "params": {
                "Region": "us-east-1",
                 "UseFIPS": true,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "For custom endpoint with fips disabled and dualstack enabled",
            "expect": {
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": true,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "Missing region",
            "expect": {
                 "error": "Invalid Configuration: Missing Region"
            }
        }
    ],
    "version": "1.0"
```

```
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the identity providers for user-based subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/ListIdentityProviders"
            },
            "smithy.api#paginated":
{
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "IdentityProviderSummaries"
            }
```

```
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest": {
        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse":
{
        "type": "structure",
        "members": {
            "IdentityProviderSummaries": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the list identity providers operation.</p>",
                    "smithy.api#required": {}
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListInstances": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest"
         },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse"
        },
        "errors": [
            {
```

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            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the EC2 instances providing user-based subscriptions.</p>",
        "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/instance/ListInstances"
        },
        "smithy.api#paginated": {
            "inputToken": "NextToken",
            "outputToken": "NextToken",
            "pageSize": "MaxResults",
            "items": "InstanceSummaries"
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest": {
    "type": "structure",
    "members": {
        "MaxResults": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
```

"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse": {
"type": "structure",
"members": {
"InstanceSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list instances operation. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},

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            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the user-based subscription products available from an identity
provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/ListProductSubscriptions"
            },
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "ProductUserSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest": {
        "type": "structure",
        "members": {
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name
 of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
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"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {

"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse": {
"type": "structure",
"members": {
"ProductUserSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list product subscriptions operation. "
}
},

"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target":
"com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists user associations for an identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/ListUserAssociations"
},
"smithy.api#paginated":
{
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "InstanceUserSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest": {
"type": "structure",
"members": {
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based
subscriptions. ",

"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse": {
"type": "structure",
"members": {
"InstanceUserSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list user association operation. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}

```
    }
  },
  "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary": {
    "type": "structure",
    "members": {

    "Username": {
        "target": "smithy.api#String",
        "traits": {
          "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
          "smithy.api#required": {}
        }
      },
      "Product": {
        "target": "smithy.api#String",
        "traits": {
          "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
          "smithy.api#required": {}
        }
      },
      "IdentityProvider": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
        "traits": {
          "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
          "smithy.api#required": {}
        }

},
      "Status": {
        "target": "smithy.api#String",
        "traits": {
          "smithy.api#documentation": "<p>The status of a product for a user.</p>",
          "smithy.api#required": {}
        }
      },
      "StatusMessage": {
        "target": "smithy.api#String",
        "traits": {
          "smithy.api#documentation": "<p>The status message for a product for a user.</p>"
        }
      },
      "Domain": {
        "target": "smithy.api#String",
        "traits": {
          "smithy.api#documentation": "<p>The domain name of the user.</p>"
        }
      },
      "SubscriptionStartDate": {
```

"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The
start date of a subscription. "
}
},
"SubscriptionEndDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The end date of a subscription. "
}
}
},
"traits": {
"smithy.api#documentation": " The summary of the user-based subscription products for a user. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{

"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Registers an identity provider for user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/RegisterIdentityProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Settings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings such as the\n subnets to provision VPC endpoints. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary":

{
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the results of an identity provider operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The resource couldn't be found. ",
"smithy.api#error": "client",
"smithy.api#httpError": 404
}
},
"com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
"type": "string",

"traits": {
"smithy.api#length": {
"min": 5,
"max": 200
},
"smithy.api#pattern": "^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request failed because a service quota is exceeded. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#Settings": {
"type": "structure",

"members": {
"Subnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation":
" The subnets defined for the registered identity provider. ",
"smithy.api#length": {
"min": 1
},
"smithy.api#required": {}
}
},
"SecurityGroupId": {
"target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
"traits": {
"smithy.api#documentation": " A security group ID that allows inbound TCP port 1688
communication between resources in\n your VPC and the VPC endpoint for activation servers. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings
such as the\n subnets to provision VPC endpoints, and the security group ID that
is associated with the VPC\n endpoints. The security group should permit inbound TCP port 1688
communication from resources\n in the VPC. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"

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            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Starts a product subscription for a user with the specified identity
provider.</p>\n        <note>\n            <p>Your estimated bill for charges on the number of users and related costs
will take 48\n        hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing status)
in Amazon Web Services Billing.
 For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n        monthly
charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n        </note>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/StartProductSubscription"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                 "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
```

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            }
          },
          "Domain": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The domain name of the user.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse": {
        "type": "structure",
         "members": {
          "ProductUserSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the start product subscription
operation.</p>",
              "smithy.api#required": {}
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"

    },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
          },
```

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            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Stops a product subscription for a user with the specified identity
provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/StopProductSubscription"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required":
{}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
```

```
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse": {
        "type": "structure",
        "members": {
            "ProductUserSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
                "traits": {
                    "smithy.api#documentation":
 "<p>Metadata that describes the start product subscription operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
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    "com.amazonaws.licensemanagerusersubscriptions#StringList": {
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        "member": {
            "target": "smithy.api#String"
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    "com.amazonaws.licensemanagerusersubscriptions#Subnet": {
        "type": "string",
        "traits": {
            "smithy.api#pattern": "subnet-[a-z0-9]{8,17}"
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    "com.amazonaws.licensemanagerusersubscriptions#Subnets": {
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        "members": {
            "message": {

             "target": "smithy.api#String"
            }
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            "smithy.api#documentation": "<p>The request was denied because of request throttling. Retry the
request.</p>",
            "smithy.api#error": "client"
        }
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    "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings": {
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"type": "operation",
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"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
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"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
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"traits": {
"smithy.api#documentation": " Updates additional product configuration settings for the registered identity\n provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/UpdateIdentityProviderSettings"
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"smithy.api#idempotent": {}
}
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"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest": {
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"traits": {
"smithy.api#required": {}
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},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},

"UpdateSettings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings",
"traits": {
"smithy.api#documentation": " Updates the registered identity providers product related configuration settings. You can\n update any combination of settings in a single operation such as the: \n \n \n Subnets which you want to add to provision VPC endpoints. \n \n \n Subnets which you want to remove the VPC endpoints from. \n \n \n Security group ID which permits traffic to the VPC endpoints. \n \n ",
"smithy.api#required": {}
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"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
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"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#required": {}
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"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " The ID of one or more subnets in which License Manager will create a VPC endpoint for products that\n require connectivity to activation servers. ",
"smithy.api#required": {}
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"RemoveSubnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " The ID of one or more subnets to remove. ",
"smithy.api#required": {}
}
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"SecurityGroupId": {
"target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
"traits": {
"smithy.api#documentation": " A security group ID

that allows inbound TCP port 1688 communication between resources in\n your VPC and the VPC endpoints for activation servers. "
}
}
},
"traits": {
"smithy.api#documentation": " Updates the registered identity providers product related configuration settings such as\n the subnets to provision VPC endpoints. "
}
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"com.amazonaws.licensemanagerusersubscriptions#ValidationException": {
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"members": {
"message": {
"target": "smithy.api#String"
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"traits": {
"smithy.api#documentation": " A parameter is not valid. ",
"smithy.api#error": "client"
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"metadata": {
"suppressions": [
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"namespace": "*"
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"namespace": "*"
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"id": "PaginatedTrait",
"namespace": "*"
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"id": "HttpHeaderTrait",
"namespace": "*"
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"id": "HttpUriConflict",
"namespace": "*"
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          "namespace": "*"
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    "shapes": {
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        "type": "service",
        "version": "2018-08-01",
        "operations": [
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            "target": "com.amazonaws.licensemanager#CheckInLicense"
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            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
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            "target": "com.amazonaws.licensemanager#CreateGrantVersion"
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            "target": "com.amazonaws.licensemanager#CreateLicense"
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            "target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
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            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
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            "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
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            "target": "com.amazonaws.licensemanager#CreateLicenseVersion"
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            "target": "com.amazonaws.licensemanager#CreateToken"
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      "target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
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      "target": "com.amazonaws.licensemanager#DeleteToken"
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      "target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

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      "target": "com.amazonaws.licensemanager#GetGrant"
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    {
      "target": "com.amazonaws.licensemanager#GetLicense"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseUsage"
    },
    {
      "target": "com.amazonaws.licensemanager#GetServiceSettings"
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      "target": "com.amazonaws.licensemanager#ListDistributedGrants"
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"target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
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"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
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"target": "com.amazonaws.licensemanager#ListReceivedGrants"
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"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganization"
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"target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization"
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"target": "com.amazonaws.licensemanager#ListTokens"
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"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
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"target": "com.amazonaws.licensemanager#RejectGrant"
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"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
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"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
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"target": "com.amazonaws.licensemanager#UpdateServiceSettings"
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"traits": {
"aws.api#service": {
"sdkId": "License Manager",
"arnNamespace": "license-manager",
"cloudFormationName": "LicenseManager",
"cloudTrailEventSource": "licensemanager.amazonaws.com",
"endpointPrefix": "license-manager"
},
"aws.auth#sigv4": {
"name": "license-manager"
},
"aws.protocols#awsJson1_1": {},
"smithy.api#documentation": " License Manager makes it easier to manage licenses from software vendors across multiple \n Amazon Web Services accounts and on-premises servers. ",
"smithy.api#title": "AWS License Manager",
"smithy.api#xmlNamespace": {
"uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
},
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
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"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
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"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}
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"argv": [
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"ref": "Endpoint"
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]

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"fn": "booleanEquals",
"argv": [
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"ref": "UseFIPS"
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true

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        "type": "error"
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            }
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        "type": "error"
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        "conditions": [],
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                "ref": "Endpoint"
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            "properties": {},
            "headers": {}
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        "type": "endpoint"
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        "argv": [
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                "ref": "Region"
            }
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  "rules": [
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                              "argv": [
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"ref": "PartitionResult"
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]

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"argv": [
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"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},

"supportsDualStack"
]
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]
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"properties": {},
"headers": {}

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"type": "endpoint"
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"conditions": [],
"error": "FIPS and DualStack are enabled, but this partition does not support one or both",
"type": "error"
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              "argv": [
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                "supportsFIPS"
              ]
            }
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        }
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            "properties": {},
            "headers": {}
          },
          "type": "endpoint"
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partition does not support FIPS",
                        "type": "error"
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                        "argv": [
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                            },
                            true
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                                "argv": [
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                                        "fn": "getAttr",
                                        "argv": [
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                                                "ref": "PartitionResult"
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    "supportsDualStack"
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                                ]
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                                "conditions": [],
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manager.{Region}.{PartitionResult#dualStackDnsSuffix}",
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"properties": {},
"headers": {}

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"type": "error"
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"properties": {},
"headers": {}
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"type": "endpoint"
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"error": "Invalid Configuration: Missing Region",
"type": "error"
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"smithy.rules#endpointTests": {
"testCases": [
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"documentation": "For region af-south-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint":
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"url": "https://license-manager.af-south-1.amazonaws.com"
}
},
"params": {
"Region": "af-south-1",
"UseFIPS": false,

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        "UseDualStack": false
      }
    },
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      },
      "params": {
        "Region": "ap-east-1",
        "UseFIPS": false,
        "UseDualStack": false
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      "expect": {
        "endpoint": {
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        }
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      "params": {
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        "UseFIPS": false,
        "UseDualStack": false
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      "documentation": "For region ap-northeast-2 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-northeast-2.amazonaws.com"
        }
      },
      "params": {
        "Region": "ap-northeast-2",
        "UseFIPS": false,
        "UseDualStack": false
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      "documentation": "For region ap-northeast-3 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-northeast-3.amazonaws.com"
        }
```

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            },
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                "UseDualStack": false
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            "expect": {
                "endpoint": {
                    "url": "https://license-manager.ap-south-1.amazonaws.com"
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            "params": {
                "Region": "ap-south-1",
                "UseFIPS": false,
                "UseDualStack": false
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            "expect": {
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            "params": {
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                "UseFIPS": false,
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"documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
"expect": {
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"params": {
"Region": "ap-southeast-3",
"UseFIPS": false,
"UseDualStack": false
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{
"documentation": "For region ca-central-1 with FIPS disabled and DualStack disabled",
"expect": {
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"params": {
"Region": "ca-central-1",
"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
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"params": {
"Region": "eu-central-1",
"UseFIPS": false,
"UseDualStack": false
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{
"documentation": "For region eu-north-1 with FIPS
disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-north-1.amazonaws.com"
}

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            },
            "params": {
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              "UseFIPS": false,
              "UseDualStack": false
            }
          },
          {
            "documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager.eu-south-1.amazonaws.com"
              }
            },
            "params": {
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"eu-south-1",
              "UseFIPS": false,
              "UseDualStack": false
            }
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            "expect": {
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            "params": {
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              "UseDualStack": false
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            "UseFIPS": false,

"UseDualStack": false
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          "expect": {
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            "UseFIPS": false,
            "UseDualStack": false
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          "expect": {
            "endpoint": {
              "url": "https://license-manager.sa-east-1.amazonaws.com"
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          "params": {
            "Region": "sa-east-1",
            "UseFIPS": false,
            "UseDualStack": false
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          "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
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          "params": {
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"Region": "us-east-1",
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"params": {
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"UseDualStack": false
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"documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
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"params": {
"Region": "us-east-2",
"UseFIPS": false,
"UseDualStack": false
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"params": {
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"UseFIPS": true,
"UseDualStack": false
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us-west-1 with FIPS disabled and DualStack disabled",
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"Region": "us-west-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-west-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-west-1.amazonaws.com"
}
},
"params": {

"Region": "us-west-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-west-2 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-west-2.amazonaws.com"
}
},
"params": {
"Region": "us-west-2",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-west-2 with FIPS enabled and DualStack disabled",

"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-west-2.amazonaws.com"
}
},
"params": {

"Region": "us-west-2",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,

"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url":
"https://license-manager.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",

"expect": {
"endpoint": {
"url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-northwest-1",
"UseFIPS": false,
"UseDualStack": false

}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,

"UseDualStack": true
}
},

{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-gov-west-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-west-1",
"UseFIPS": false,
"UseDualStack": false
}
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{
"documentation":
"For region us-gov-west-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {

"url": "https://license-manager-fips.us-gov-west-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-west-1",
"UseFIPS": true,
"UseDualStack": false
}
},
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"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-gov-east-1.api.aws"
}
},

"params": {
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"UseFIPS": true,
"UseDualStack": true
}
},
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"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack
disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false

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            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": true,
                 "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
                }
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": true,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
                "error": "DualStack is enabled
but this partition does not support DualStack"
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": false,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
                }
            },
            "params": {
                "Region": "us-isob-east-1",
                "UseFIPS": false,
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"UseDualStack": false
}
},

{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
}
},

"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",

"expect": {
"endpoint": {
"url": "https://example.com"
}
},

"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,

"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips disabled and dualstack enabled",
"expect": {
"error":
"Invalid Configuration: Dualstack and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true,
"Endpoint": "https://example.com"
}
},
{

```
                "documentation": "Missing region",
                "expect": {
                    "error": "Invalid Configuration: Missing Region"
                }
            }
        ],
        "version": "1.0"
    }
  }
},
"com.amazonaws.licensemanager#AcceptGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#AcceptGrantRequest"

},
    "output": {
        "target": "com.amazonaws.licensemanager#AcceptGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"

  }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Accepts the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#AcceptGrantRequest": {
```

"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#AcceptGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant
ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#AccessDeniedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},

"traits": {
"aws.protocols#awsQueryError": {

"code": "ServiceAccessDenied",
"httpResponseCode": 401
},
"smithy.api#documentation": " Access to resource denied. ",
"smithy.api#error": "client",
"smithy.api#httpError": 401
}
},
"com.amazonaws.licensemanager#ActivationOverrideBehavior": {
"type": "enum",
"members": {
"DISTRIBUTED_GRANTS_ONLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DISTRIBUTED_GRANTS_ONLY"
}
},
"ALL_GRANTS_PERMITTED_BY_ISSUER": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ALL_GRANTS_PERMITTED_BY_ISSUER"
}
}
}
},
"com.amazonaws.licensemanager#AllowedOperation": {

"type": "enum",
"members": {
"CREATE_GRANT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CreateGrant"
}
},
"CHECKOUT_LICENSE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CheckoutLicense"
}
},
"CHECKOUT_BORROW_LICENSE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CheckoutBorrowLicense"

```
            }
          },
          "CHECK_IN_LICENSE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "CheckInLicense"
            }
          },
          "EXTEND_CONSUMPTION_LICENSE":
{
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "ExtendConsumptionLicense"
            }
          },
          "LIST_PURCHASED_LICENSES": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "ListPurchasedLicenses"
            }
          },
          "CREATE_TOKEN": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "CreateToken"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#AllowedOperationList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#AllowedOperation"
        },
        "traits": {
          "smithy.api#length": {
            "min": 1,
            "max":
7
          }
        }
      },
      "com.amazonaws.licensemanager#Arn": {
        "type": "string",
        "traits": {
          "smithy.api#length": {
            "min": 0,
            "max": 2048
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```
            },
            "smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-
z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
        }
    },
    "com.amazonaws.licensemanager#ArnList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Arn"
        }
    },
    "com.amazonaws.licensemanager#AuthorizationException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError":
 {
                "code": "AuthorizationFailure",
                "httpResponseCode": 403
            },
            "smithy.api#documentation": "<p>The Amazon Web Services user account does not have permission to
perform the action. Check the IAM\n        policy associated with this account.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 403
        }
    },
    "com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
        "type": "structure",
        "members": {
            "LastRunTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time that automated discovery last ran.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes automated discovery.</p>"
        }
    },

  "com.amazonaws.licensemanager#Boolean": {
        "type": "boolean",
        "traits": {
```

"smithy.api#default": false
}
},
"com.amazonaws.licensemanager#BorrowConfiguration": {
"type": "structure",
"members": {
"AllowEarlyCheckIn": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether early check-ins are allowed. ",
"smithy.api#required": {}
}
},
"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the borrow configuration, in minutes. ",
"smithy.api#required": {}
}
}

},
"traits": {
"smithy.api#documentation": " Details about a borrow configuration. "
}
},
"com.amazonaws.licensemanager#BoxBoolean": {
"type": "boolean"
},
"com.amazonaws.licensemanager#BoxInteger": {
"type": "integer"
},
"com.amazonaws.licensemanager#BoxLong": {
"type": "long"
},
"com.amazonaws.licensemanager#CheckInLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{

"target": "com.amazonaws.licensemanager#AuthorizationException"

},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks in the specified license. Check in a license when it is no longer in use. "
}
},
"com.amazonaws.licensemanager#CheckInLicenseRequest":
{
"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
}
},
"traits": {
"smithy.api#input": {}
}

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    },
    "com.amazonaws.licensemanager#CheckInLicenseResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicense":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {
                "target":
"com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
        "type": "structure",
        "members":
 {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The license must
use the borrow consumption configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements. Partial checkouts are not supported.</p>",
                    "smithy.api#required": {}
                }
            },
            "DigitalSignatureMethod": {
                "target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
                "traits": {
                    "smithy.api#documentation": "<p>Digital signature method. The possible
 value is JSON Web Signature (JWS) algorithm PS384.\n        For more information, see <a
href=\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital Signature with RSASSA-PSS</a>.</p>",
                    "smithy.api#required": {}
                }
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Node ID.</p>"
                }
            },
            "CheckoutMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about constraints.</p>"
                }
```

```
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation":
"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>"
                }
            },
            "EntitlementsAllowed":
{
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
                }
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Node ID.</p>"
                }
            },
            "SignedToken": {
                "target": "com.amazonaws.licensemanager#SignedToken",
                "traits": {
                    "smithy.api#documentation": "<p>Signed token.</p>"
                }
            },
```

```
            "IssuedAt": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license checkout
is issued.</p>"
                }
            },
            "Expiration": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
                }
            },
            "CheckoutMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about constraints.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target":
 "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license.</p>\n        <note>\n            <p>If the
account that created the license is the same that is performing the check out, you must\n            specify the account
as the beneficiary.</p>\n        </note>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutLicenseRequest": {
        "type": "structure",
        "members": {
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product
 SKU.</p>",
                    "smithy.api#required": {}
                }
            },
            "CheckoutType": {
                "target": "com.amazonaws.licensemanager#CheckoutType",
                "traits": {
                    "smithy.api#documentation": "<p>Checkout type.</p>",
                    "smithy.api#required": {}
                }
            },
            "KeyFingerprint": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Key fingerprint identifying the license.</p>",
                    "smithy.api#required": {}
                }
            },
```

"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " License entitlements. ",

"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
"type": "structure",
"members": {
"CheckoutType": {
"target": "com.amazonaws.licensemanager#CheckoutType",
"traits": {
"smithy.api#documentation": " Checkout type. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}

```
            },
            "EntitlementsAllowed": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
                }
            },
             "SignedToken": {
                "target": "com.amazonaws.licensemanager#SignedToken",
                "traits": {
                    "smithy.api#documentation": "<p>Signed token.</p>"
                }
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Node ID.</p>"
                }
            },
            "IssuedAt": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
                }
            },
            "Expiration": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and
time at which the license checkout expires.</p>"
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the checkout license.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutType": {
        "type": "enum",
        "members": {
            "PROVISIONAL": {
                "target": "smithy.api#Unit",
```

"traits": {
"smithy.api#enumValue": "PROVISIONAL"
}
},
"PERPETUAL": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PERPETUAL"
}
}
}
},
"com.amazonaws.licensemanager#ClientRequestToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 36
}
}
},
"com.amazonaws.licensemanager#ClientToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 2048
},
"smithy.api#pattern": "^\\S+$"
}
},
"com.amazonaws.licensemanager#ConflictException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "ConflictException",
"httpResponseCode":
409
},
"smithy.api#documentation": " There was a conflict processing the request. Try your request again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 409

```
        }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummary": {
        "type": "structure",
        "members": {
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
                }
            },
            "ConsumedLicenses": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
                }
            }
        },

"traits": {
            "smithy.api#documentation": "<p>Details about license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
        }
    },
    "com.amazonaws.licensemanager#ConsumptionConfiguration": {
        "type": "structure",
        "members": {
            "RenewType": {
                "target": "com.amazonaws.licensemanager#RenewType",
                "traits": {
                    "smithy.api#documentation": "<p>Renewal frequency.</p>"
                }
            },
            "ProvisionalConfiguration": {
                "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
                 }
            },
            "BorrowConfiguration": {
                "target": "com.amazonaws.licensemanager#BorrowConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
```

```
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target":
 "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a grant for the specified license. A grant shares the use of
license\n        entitlements with a specific Amazon Web Services account, an organization, or an\n
organizational unit (OU). For more
 information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-
licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantRequest": {
```

"type": "structure",
"members": {
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}

}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Principals": {
"target": "com.amazonaws.licensemanager#PrincipalArnList",
"traits": {
"smithy.api#documentation": " The grant principals. You can specify one of the following as an Amazon Resource Name\n (ARN): \n \n \n An Amazon Web Services account, which includes only the account specified. \n \n \n \n \n An organizational unit (OU), which includes all accounts in the OU. \n \n \n \n
\n An organization, which will include all accounts across your organization. \n \n ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {

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                "smithy.api#documentation": "<p>Allowed operations for the grant.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},

"com.amazonaws.licensemanager#CreateGrantResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateGrantVersion":
{
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified grant. For more information, see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersionRequest": {
        "type": "structure",
        "members": {
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",

    "smithy.api#required": {}
                }
            },
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
```

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            "smithy.api#documentation": "<p>Grant name.</p>"
          }
        },
        "AllowedOperations": {
          "target": "com.amazonaws.licensemanager#AllowedOperationList",
          "traits": {
            "smithy.api#documentation": "<p>Allowed operations for the grant.</p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#GrantStatus",
          "traits": {
            "smithy.api#documentation": "<p>Grant status.</p>"
          }
        },
        "StatusReason": {
          "target": "com.amazonaws.licensemanager#StatusReasonMessage",
          "traits": {
            "smithy.api#documentation": "<p>Grant status reason.</p>"
          }
        },
        "SourceVersion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Current version of the grant.</p>"
          }
        },
        "Options": {
          "target": "com.amazonaws.licensemanager#Options",
          "traits": {
            "smithy.api#documentation": "<p>The options specified for the grant.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#CreateGrantVersionResponse": {
      "type": "structure",
      "members": {
        "GrantArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Grant ARN.</p>"
          }
        },
        "Status": {
```

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            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>New version of the grant.</p>"
            }
        }
    },
    "traits":
{
        "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#CreateLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
         },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
```

"traits": {
"smithy.api#documentation": " Creates a license. "
}
},
"com.amazonaws.licensemanager#CreateLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Creates a license configuration. \n A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), license affinity to host (how long a \n license must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. ",

"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension used to track the license inventory. ",
"smithy.api#required": {}
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether hard or soft license enforcement is used. Exceeding a hard limit\n blocks the launch of new instances. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules \n vary by dimension, as follows. \n \n \n \n <code>Cores</code> dimension: <code>allowedTenancy</code> |\n <code>licenseAffinityToHost</code> |\n <code>maximumCores</code> | <code>minimumCores</code>\n \n \n \n \n <code>Instances</code> dimension: <code>allowedTenancy</code> | \n <code>maximumCores</code> | <code>minimumCores</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code> |\n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n \n <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n <code>licenseAffinityToHost</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code>\n \n \n \n \n <code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n <code>honorVcpuOptimization</code> | \n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n The unit for

<code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n <code>True</code> and <code>False</code>. "
}
},

"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the license configuration. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
"type": "operation",

"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a new license conversion task. "
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {

"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource you are converting the license type for. ",
"smithy.api#required": {}
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information that identifies the license type you are converting from. \n\n For the structure of the source license, see Convert a license type using the CLI in

the License Manager User Guide. ",
"smithy.api#required": {}
}
},
"DestinationLicenseContext":
{
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information that identifies the license type you are converting to. For the structure of the destination license, see Convert a license type using the CLI in the License Manager User Guide. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",

"traits": {
"smithy.api#documentation": " The ID of the created license type conversion task. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a report generator. "
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"ReportGeneratorName":
{
"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports to generate. The following report types an be generated: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}

}
},

"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " Defines the type of license configuration the report generator tracks. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " The Amazon Resource Name (ARN) of the new report generator. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseRequest": {
"type": "structure",
"members": {
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. ",
"smithy.api#required": {}
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. ",
"smithy.api#required": {}
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. ",
"smithy.api#required": {}
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#Issuer",
"traits": {
"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region for the license. ",
"smithy.api#required": {}

}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
}
},

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    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseResponse": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
            }
        },
        "Version": {
             "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseVersion": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target":
"com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product name.</p>",
                    "smithy.api#required": {}
                }
            },
            "Issuer": {
                "target": "com.amazonaws.licensemanager#Issuer",
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"traits":
{
"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the license. ",
"smithy.api#required": {}
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},

"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. ",

"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. "
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New version of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
}
},
"traits": {
"smithy.api#output":

{}
}
},
"com.amazonaws.licensemanager#CreateToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},

{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a long-lived token. \n A refresh token is a JWT token used to get an access token. With an access token,\n you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n call License Manager to manage the specified license. "
}
},
"com.amazonaws.licensemanager#CreateTokenRequest": {
"type": "structure",
"members": {
"LicenseArn": {

"target": "com.amazonaws.licensemanager#Arn",
"traits":
{
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n JWT token. ",
"smithy.api#required": {}
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n License Manager does not check whether the roles are in use. "
}
},
"ExpirationInDays": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Token expiration, in days, counted from token creation. The default is 365 days. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller to be included in the JWT token. The data is mapped\n to the amr claim of the JWT token. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Idempotency token, valid for 10 minutes. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateTokenResponse": {
"type": "structure",
"members": {
"TokenId": {
"target": "com.amazonaws.licensemanager#String",

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        "traits": {
            "smithy.api#documentation": "<p>Token ID.</p>"
        }
    },
    "TokenType": {
        "target": "com.amazonaws.licensemanager#TokenType",
        "traits": {
            "smithy.api#documentation": "<p>Token type.</p>"
        }
    },
    "Token": {
        "target": "com.amazonaws.licensemanager#TokenString",
        "traits": {
            "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>"
        }
    }
  },
  "traits": {
    "smithy.api#output": {}
  }
},
"com.amazonaws.licensemanager#DateTime": {
  "type": "timestamp"
},
"com.amazonaws.licensemanager#DatetimeRange": {
  "type": "structure",
  "members": {
    "Begin": {
        "target": "com.amazonaws.licensemanager#ISO8601DateTime",
        "traits": {
            "smithy.api#documentation": "<p>Start of the time range.</p>",
            "smithy.api#required": {}
        }
    },
    "End": {
        "target": "com.amazonaws.licensemanager#ISO8601DateTime",
        "traits": {
            "smithy.api#documentation": "<p>End of the time range.</p>"
        }
    }
  },
  "traits": {
    "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC format.</p>"
  }
},
"com.amazonaws.licensemanager#DeleteGrant": {
  "type": "operation",
  "input": {
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"target": "com.amazonaws.licensemanager#DeleteGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes
the specified grant. "
}
},
"com.amazonaws.licensemanager#DeleteGrantRequest": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " The Status reason for the delete request. "
}

```
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the
grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
"<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
```

```
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"

},
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#RedirectException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Deletes the specified license.</p>"
        }
      },
      "com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
        },

      "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
```

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            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified license configuration.</p>\n        <p>You cannot
delete a license configuration that is in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
        "type": "structure",
        "members":
{
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
         },
        "errors": [
            {
```

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified report generator. \n This action deletes the report generator, which stops it from generating future reports.\n The action cannot be reversed. It has no effect on the previous reports from this generator. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to be deleted. ",
"smithy.api#required": {}
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {

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        "type": "structure",
        "members": {},
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#DeleteLicenseRequest": {
        "type": "structure",
        "members": {
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
              "smithy.api#required": {}
            }
          },
          "SourceVersion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Current version of the license.</p>",
              "smithy.api#required":
{}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#DeleteLicenseResponse": {
        "type": "structure",
        "members": {
          "Status": {
            "target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
            "traits": {
              "smithy.api#documentation": "<p>License status.</p>"
            }
          },
          "DeletionDate": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Date when the license is deleted.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
```

```
    },
    "com.amazonaws.licensemanager#DeleteToken": {
      "type": "operation",
       "input": {
        "target": "com.amazonaws.licensemanager#DeleteTokenRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#DeleteTokenResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },

    {
          "target": "com.amazonaws.licensemanager#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
      }
    },
    "com.amazonaws.licensemanager#DeleteTokenRequest": {
      "type": "structure",
      "members": {
        "TokenId": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token ID.</p>",
            "smithy.api#required": {}
          }
        }
```

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        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteTokenResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}

      }
    },
    "com.amazonaws.licensemanager#DigitalSignatureMethod": {
        "type": "enum",
        "members": {
            "JWT_PS384": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "JWT_PS384"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#Entitlement": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement name.</p>",
                    "smithy.api#required": {}
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement resource. Use only
if the unit is None.</p>"
                }
            },
            "MaxCount": {
                "target": "com.amazonaws.licensemanager#Long",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
                }
            },
            "Overage": {
```

"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether overages are allowed. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementUnit",
"traits": {
"smithy.api#documentation": " Entitlement unit. ",
"smithy.api#required": {}
}
},
"AllowCheckIn": {
"target":
"com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether check-ins are allowed. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a resource entitled for use with a license. "
}
},
"com.amazonaws.licensemanager#EntitlementData": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement data name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement
data value. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementDataUnit",
"traits": {
"smithy.api#documentation": " Entitlement data unit. ",
"smithy.api#required": {}
}
}

```
        },
        "traits": {
            "smithy.api#documentation": "<p>Data associated with an entitlement resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementDataList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#EntitlementData"
        }
    },
    "com.amazonaws.licensemanager#EntitlementDataUnit": {
        "type": "enum",
        "members": {
            "COUNT": {
                "target": "smithy.api#Unit",
                "traits": {

"smithy.api#enumValue": "Count"
                }
            },
            "NONE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "None"
                }
            },
            "SECONDS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Seconds"
                }
            },
            "MICROSECONDS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Microseconds"
                }
            },
            "MILLISECONDS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Milliseconds"
                }
            },
            "BYTES": {
                "target": "smithy.api#Unit",
```

```
            "traits": {
                "smithy.api#enumValue": "Bytes"
            }
        },
        "KILOBYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobytes"
            }
        },
        "MEGABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabytes"
            }
        },
        "GIGABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Gigabytes"
            }
        },
        "TERABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabytes"
            }
        },
        "BITS":
{
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bits"
            }
        },
        "KILOBITS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobits"
            }
        },
        "MEGABITS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabits"
            }
        },
        "GIGABITS": {
```

```
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Gigabits"
            }
        },
        "TERABITS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabits"

}
        },
        "PERCENT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Percent"
            }
        },
        "BYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bytes/Second"
            }
        },
        "KILOBYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobytes/Second"
            }
        },
        "MEGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabytes/Second"
            }
        },
        "GIGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "Gigabytes/Second"
            }
        },
        "TERABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabytes/Second"
            }
        },
```

"BITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits/Second"
}
},
"KILOBITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobits/Second"
}
},
"MEGABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue":
"Megabits/Second"
}
},
"GIGABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits/Second"
}
},
"TERABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits/Second"
}
},
"COUNT_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Count/Second"
}
}
}
},
"com.amazonaws.licensemanager#EntitlementList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Entitlement"
}
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException":
{
"type": "structure",

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        "members": {
          "Message": {
            "target": "com.amazonaws.licensemanager#Message"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The entitlement is not allowed.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 400
        }
      },
      "com.amazonaws.licensemanager#EntitlementUnit": {
        "type": "enum",
        "members": {
          "COUNT": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Count"
            }
          },
          "NONE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "None"
            }
          },
          "SECONDS":
{
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Seconds"
            }
          },
          "MICROSECONDS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Microseconds"
            }
          },
          "MILLISECONDS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Milliseconds"
            }
          },
          "BYTES": {
            "target": "smithy.api#Unit",
            "traits": {
```

"smithy.api#enumValue": "Bytes"
}
},
"KILOBYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes"
}
},
"MEGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes"
}
},
"GIGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes"
}
},
"TERABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabytes"
}
},
"BITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits"
}
},
"KILOBITS": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Kilobits"
}
},
"MEGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits"
}
},
"GIGABITS": {
"target": "smithy.api#Unit",

"traits": {
"smithy.api#enumValue": "Gigabits"
}
},
"TERABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits"
}
},
"PERCENT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Percent"
}
},
"BYTES_PER_SECOND": {
"target":
"smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes/Second"
}
},
"KILOBYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes/Second"
}
},
"MEGABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes/Second"
}
},
"GIGABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes/Second"
}
},
"TERABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Terabytes/Second"
}
},

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        "BITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bits/Second"
            }
        },
        "KILOBITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobits/Second"
            }
        },
        "MEGABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabits/Second"
            }
        },
        "GIGABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Gigabits/Second"
            }
        },

    "TERABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabits/Second"
            }
        },
        "COUNT_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Count/Second"
            }
        }
    }
},
"com.amazonaws.licensemanager#EntitlementUsage": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage name.</p>",
                "smithy.api#required": {}
            }
```

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            },
            "ConsumedValue": {
                "target": "com.amazonaws.licensemanager#String",

            "traits": {
                    "smithy.api#documentation": "<p>Resource usage consumed.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxCount": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
                }
            },
            "Unit": {
                "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementUsageList":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#EntitlementUsage"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumption": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",
                    "smithy.api#required": {}

      }
            },
            "DryRun": {
                "target": "com.amazonaws.licensemanager#Boolean",
                "traits": {
                    "smithy.api#default": false,
                    "smithy.api#documentation": "<p>Checks whether you have the required permissions for the action,
without actually making the request. Provides an error response if you do not have the required permissions.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
        "type": "structure",
        "members": {
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            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>"
                }
            },

            "Expiration": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license consumption expires.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#FailedDependencyException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            },
            "ErrorCode": {
                "target": "com.amazonaws.licensemanager#String"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "FailedDependency",
                "httpResponseCode": 424
            },
            "smithy.api#documentation":
"<p>A dependency required to run the API is missing.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 424
        }
    },
    "com.amazonaws.licensemanager#Filter": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#FilterName",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the filter. Filter names are case-sensitive.</p>"
                }
            },
```

"Values": {
"target": "com.amazonaws.licensemanager#FilterValues",
"traits": {
"smithy.api#documentation": " The value of the filter, which is case-sensitive. You can only specify one value for the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter name and value pair that is used to return more specific results from a\n describe operation. Filters can be used to match a set of resources by specific criteria,\n such as tags, attributes, or IDs. "
}
},
"com.amazonaws.licensemanager#FilterLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "FilterLimitExceeded",
"httpResponseCode": 400
},
"smithy.api#documentation": " The request uses too many filters or too many filter values. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Filter"
}
},
"com.amazonaws.licensemanager#FilterName": {
"type": "string"
},
"com.amazonaws.licensemanager#FilterValue": {
"type": "string"
},
"com.amazonaws.licensemanager#FilterValues": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#FilterValue",
"traits": {

"smithy.api#xmlName": "item"
}
}
},
"com.amazonaws.licensemanager#Filters": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Filter",
"traits": {
"smithy.api#xmlName": "item"
}
}
},
"com.amazonaws.licensemanager#GetAccessToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets a temporary access token to use with
AssumeRoleWithWebIdentity. Access
tokens\n are valid for one hour. "
}
},
"com.amazonaws.licensemanager#GetAccessTokenRequest": {
"type": "structure",
"members": {
"Token": {

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                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>",
                    "smithy.api#required": {}
                }
            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Token properties to validate against those present in the JWT
token.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenResponse":
 {
        "type": "structure",
        "members": {
            "AccessToken": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Temporary access token.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
```

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    },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
        "Grant": {
            "target": "com.amazonaws.licensemanager#Grant",
            "traits": {
```

"smithy.api#documentation": " Grant details. "
}
}
},
"traits": {

"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"

},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license configuration. "
}
},
"com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
}
},
"traits":
{
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Unique ID for the license configuration. "

```
    }
},
"LicenseConfigurationArn": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
        "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    }
},
"Name": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
        "smithy.api#documentation": "<p>Name of the license configuration.</p>"
     }
},
"Description": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
        "smithy.api#documentation": "<p>Description of the license configuration.</p>"
    }
},
"LicenseCountingType": {
    "target": "com.amazonaws.licensemanager#LicenseCountingType",
    "traits": {
        "smithy.api#documentation": "<p>Dimension for which the licenses are counted.</p>"
    }
},
"LicenseRules": {
    "target": "com.amazonaws.licensemanager#StringList",
    "traits": {
        "smithy.api#documentation": "<p>License rules.</p>"
    }
},
"LicenseCount": {
    "target": "com.amazonaws.licensemanager#BoxLong",

   "traits": {
        "smithy.api#documentation": "<p>Number of available licenses.</p>"
    }
},
"LicenseCountHardLimit": {
    "target": "com.amazonaws.licensemanager#BoxBoolean",
    "traits": {
        "smithy.api#documentation": "<p>Sets the number of available licenses as a hard limit.</p>"
    }
},
"ConsumedLicenses": {
    "target": "com.amazonaws.licensemanager#BoxLong",
    "traits": {
```

"smithy.api#documentation": " Number of licenses assigned to resources. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License configuration status. "
}

},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the owner of the license configuration. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the licenses consumed by resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the managed resources. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags for the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",

"traits": {
"smithy.api#documentation": " When
true, disassociates a resource when software is uninstalled. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTask": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets information about the specified license type conversion task. "
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task to retrieve information
on. ",

"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the resources the license conversion task is associated with. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted to. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
"traits": {
"smithy.api#documentation": " Status of the license type conversion task. "
}

```
            },

  "StartTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time at which the license type conversion task was started .</p>"
                }
            },
            "LicenseConversionTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Amount of time to complete the license type conversion.</p>"
                }
            },
            "EndTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time at which the license type conversion task was
completed.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator":
 {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets information about the specified report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>",
                    "smithy.api#required":
{}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {
            "ReportGenerator": {
                "target": "com.amazonaws.licensemanager#ReportGenerator",
                "traits": {
                    "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
```

```
    },
    "com.amazonaws.licensemanager#GetLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {

"smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseResponse": {
        "type": "structure",
        "members": {
            "License": {
                "target": "com.amazonaws.licensemanager#License",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },

  "com.amazonaws.licensemanager#GetLicenseUsage": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
        },
        "errors": [
            {
```

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the usage of the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseUsageRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseUsageResponse": {
"type": "structure",
"members": {
"LicenseUsage": {
"target":
"com.amazonaws.licensemanager#LicenseUsage",
"traits": {
"smithy.api#documentation": " License usage details. "
}
}

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        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets the License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsRequest": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Regional S3 bucket path for storing reports, license trail event data,
discovery data,\n        and so on.</p>"
```

}
},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " SNS topic configured to receive notifications from License Manager. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {
"smithy.api#documentation": " Indicates whether Organizations is integrated with License Manager for\n cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether cross-account discovery is enabled. "
}

},
"LicenseManagerResourceShareArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource share. The License Manager management account \n provides member accounts with access to this share. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#Grant": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"GrantName": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}
}
},
"ParentArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Parent ARN. ",
"smithy.api#required": {}
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. ",
"smithy.api#required": {}
}
},
"GranteePrincipalArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {

"smithy.api#documentation": " The grantee principal ARN. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"GrantStatus": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},

```
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantedOperations": {
                "target": "com.amazonaws.licensemanager#AllowedOperationList",
                "traits": {
                    "smithy.api#documentation": "<p>Granted operations.</p>",
                    "smithy.api#required": {}
                }
            },
            "Options": {
                "target": "com.amazonaws.licensemanager#Options",
                "traits": {
                    "smithy.api#documentation": "<p>The options specified for the grant.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation":
"<p>Describes a grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#GrantList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Grant"
        }
    },
    "com.amazonaws.licensemanager#GrantStatus": {
        "type": "enum",
        "members": {
            "PENDING_WORKFLOW": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_WORKFLOW"
                }
            },
            "PENDING_ACCEPT": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_ACCEPT"
                }
            },
            "REJECTED": {
```

"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "REJECTED"

}
},
"ACTIVE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ACTIVE"
}
},
"FAILED_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "FAILED_WORKFLOW"
}
},
"DELETED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DELETED"
}
},
"PENDING_DELETE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_DELETE"
}
},
"DISABLED": {
"target": "smithy.api#Unit",
"traits":
{
"smithy.api#enumValue": "DISABLED"
}
},
"WORKFLOW_COMPLETED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "WORKFLOW_COMPLETED"
}
}
}
},
"com.amazonaws.licensemanager#GrantedLicense": {
"type": "structure",
"members": {

"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. "
}

},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. "
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. "
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#IssuerDetails",
"traits": {
"smithy.api#documentation": " Granted license issuer. "
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the granted license. "

}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " Granted license status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the granted license is valid, in

ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Granted license beneficiary. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Granted license metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Creation time of the granted license. "

}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Version of the granted license. "
}
},
"ReceivedMetadata": {
"target": "com.amazonaws.licensemanager#ReceivedMetadata",
"traits": {
"smithy.api#documentation": " Granted license received metadata. "
}
}
},
"traits": {

"smithy.api#documentation": " Describes a license that is granted to a grantee. "
}
},
"com.amazonaws.licensemanager#GrantedLicenseList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#GrantedLicense"
}
},
"com.amazonaws.licensemanager#ISO8601DateTime":
{
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[0-3]|[0-1][0-9]):[0-5][0-9])+$"
}
},
"com.amazonaws.licensemanager#Integer": {
"type": "integer"
},
"com.amazonaws.licensemanager#InvalidParameterValueException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidParameterValueProvided",
"httpResponseCode": 400
},
"smithy.api#documentation":
" One or more parameter values are not valid. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#InvalidResourceStateException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}

```
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidResourceState",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>License Manager cannot allocate a license to a resource because of its
state. </p>\n        <p>For example, you cannot allocate a license to an instance in the process of shutting\n
down.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },

    "com.amazonaws.licensemanager#InventoryFilter": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the filter.</p>",
                    "smithy.api#required": {}
                }
            },
            "Condition": {
                "target": "com.amazonaws.licensemanager#InventoryFilterCondition",
                "traits": {
                    "smithy.api#documentation": "<p>Condition of the filter.</p>",
                    "smithy.api#required": {}
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Value of the filter.</p>"
                }
            }

    },
        "traits": {
            "smithy.api#documentation": "<p>An inventory filter.</p>"
        }
    },
    "com.amazonaws.licensemanager#InventoryFilterCondition": {
        "type": "enum",
        "members": {
            "EQUALS": {
                "target": "smithy.api#Unit",
```

"traits": {
"smithy.api#enumValue": "EQUALS"
}
},
"NOT_EQUALS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "NOT_EQUALS"
}
},
"BEGINS_WITH": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "BEGINS_WITH"
}
},
"CONTAINS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CONTAINS"
}
}
}
},
"com.amazonaws.licensemanager#InventoryFilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#InventoryFilter"
}
},
"com.amazonaws.licensemanager#Issuer": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. ",
"smithy.api#required": {}
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage
of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
}

```
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about the issuer of a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#IssuerDetails": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Issuer name.</p>"
                }
            },
            "SignKey": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS
key must have a key usage of sign and verify, \n        and support the RSASSA-PSS SHA-256 signing
algorithm.</p>"
                }
            },
            "KeyFingerprint": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Issuer key fingerprint.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details associated with the issuer of a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#License": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "LicenseName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {

            "smithy.api#documentation": "<p>License name.</p>"
                }
```

```
            },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product name.</p>"
                }
            },
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product SKU.</p>"
                }
            },
            "Issuer": {
                "target": "com.amazonaws.licensemanager#IssuerDetails",
                "traits": {
                    "smithy.api#documentation": "<p>License issuer.</p>"
                }
            },
            "HomeRegion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {

            "smithy.api#documentation": "<p>Home Region of the license.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseStatus",
                "traits": {
                    "smithy.api#documentation": "<p>License status.</p>"
                }
            },
            "Validity": {
                "target": "com.amazonaws.licensemanager#DatetimeRange",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>"
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License beneficiary.</p>"
                }
            },
            "Entitlements": {
```

"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " License metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " License
creation time. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
},
"traits": {
"smithy.api#documentation": " Software license that is managed in License Manager. "
}
},
"com.amazonaws.licensemanager#LicenseConfiguration": {
"type": "structure",
"members": {
"LicenseConfigurationId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Unique ID of the license configuration. "
}
},
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "

```
            }
        },
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Name of the license configuration.</p>"
            }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Description of the license configuration.</p>"
            }
        },
        "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
            "traits": {
                "smithy.api#documentation": "<p>Dimension to use to track the license inventory.</p>"
            }
        },
        "LicenseRules": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>License rules.</p>"
            }
        },
        "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
            }
        },
        "LicenseCountHardLimit": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Number of available licenses as a hard limit.</p>"
            }
        },
        "DisassociateWhenNotFound": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
            }
        },
        "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
```

"smithy.api#documentation": " Number of licenses consumed. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the license configuration. "
}
},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the license configuration's owner. "

}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries for licenses consumed by various resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries for managed resources. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {

"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
}
},
"traits": {
"smithy.api#documentation": " A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a host), and the number of licenses purchased and used. "

```
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
        "type": "structure",
        "members": {
            "ResourceArn":
{
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Type of server resource.</p>"
                }
            },
            "ResourceOwnerId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the Amazon Web Services account that owns the resource
consuming licenses.</p>"
                }
            },
            "AssociationTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {

    "smithy.api#documentation": "<p>Time when the license configuration was associated with the resource.</p>"
                }
            },
            "AmiAssociationScope": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-
account</code>.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes an association with a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
```

```
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationStatus": {
        "type": "enum",
        "members":
{
            "AVAILABLE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "AVAILABLE"
                }
            },
            "DISABLED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DISABLED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationUsage": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits":
{
                    "smithy.api#documentation": "<p>Type of resource.</p>"
                }
            },
            "ResourceStatus": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Status of the resource.</p>"
                }
            },
            "ResourceOwnerId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
                }
            },
```

"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was initially associated with the resource. "
}
},

"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about the usage of a resource associated with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
}
},
"com.amazonaws.licensemanager#LicenseConfigurations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfiguration"
}
},
"com.amazonaws.licensemanager#LicenseConversionContext": {

"type": "structure",
"members": {
"UsageOperation": {
"target": "com.amazonaws.licensemanager#UsageOperation",
"traits": {
"smithy.api#documentation": " The Usage operation value that corresponds to the license type you are converting your resource from. For more information about which platforms correspond to which usage operation values see Sample data: usage operation by platform\n \n "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "

```
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTask": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {

     "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the license type conversion task.</p>"
                }
            },
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the resource associated
with the license type\n        conversion task.</p>"
                }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license type this conversion task converted
from.</p>"
                }
            },
            "DestinationLicenseContext": {
                "target":
 "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license type this conversion task converted
to.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
                "traits": {
                    "smithy.api#documentation": "<p>The status of the conversion task.</p>"
                }
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
                }
            },
            "StartTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
```

```
                "traits": {
                    "smithy.api#documentation":
 "<p>The time the conversion task was started at.</p>"
                }
            },
            "LicenseConversionTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>The time the usage operation value of the resource was
changed.</p>"
                }
            },
            "EndTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>The time the conversion task was completed.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTaskId": {
        "type": "string",
        "traits": {

          "smithy.api#length": {
                "min": 0,
                "max": 50
            },
            "smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
        "type": "enum",
        "members": {
            "IN_PROGRESS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "IN_PROGRESS"
                }
            },
            "SUCCEEDED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "SUCCEEDED"
                }
```

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            },
            "FAILED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "FAILED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTasks":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTask"
        }
    },
    "com.amazonaws.licensemanager#LicenseCountingType": {
        "type": "enum",
        "members": {
            "VCPU": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "vCPU"
                }
            },
            "INSTANCE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Instance"
                }
            },
            "CORE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Core"
                }
            },
            "SOCKET": {
                "target": "smithy.api#Unit",
                 "traits": {
                    "smithy.api#enumValue": "Socket"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#LicenseDeletionStatus": {
        "type": "enum",
        "members": {
```

```
        "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#License"
    }
},
"com.amazonaws.licensemanager#LicenseOperationFailure": {

    "type": "structure",
    "members": {
        "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
        },
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Resource type.</p>"
            }
        },
        "ErrorMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Error message.</p>"
            }
        },
        "FailureTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {

"smithy.api#documentation": "<p>Failure time.</p>"
            }
```

```
            },
            "OperationName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the operation.</p>"
                }
            },
            "ResourceOwnerId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the Amazon Web Services account that owns the
resource.</p>"
                }
            },
            "OperationRequestedBy": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The requester is \"License Manager Automated Discovery\".</p>"
                }
            },
            "MetadataList": {

                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Reserved.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes the failure of a license operation.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseOperationFailureList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseOperationFailure"
        }
    },
    "com.amazonaws.licensemanager#LicenseSpecification": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
```

"smithy.api#required": {}
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Details for associating a license configuration with a resource. "
}
},
"com.amazonaws.licensemanager#LicenseSpecifications": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseSpecification"
}
},
"com.amazonaws.licensemanager#LicenseStatus": {
"type": "enum",
"members": {
"AVAILABLE": {
"target": "smithy.api#Unit",

"traits": {
"smithy.api#enumValue": "AVAILABLE"
}
},
"PENDING_AVAILABLE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_AVAILABLE"
}
},
"DEACTIVATED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DEACTIVATED"
}
},
"SUSPENDED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "SUSPENDED"
}

```
        },
        "EXPIRED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EXPIRED"
            }
        },

     "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseUsage": {
    "type": "structure",
    "members": {
        "EntitlementUsages": {
            "target": "com.amazonaws.licensemanager#EntitlementUsageList",
            "traits": {
                "smithy.api#documentation": "<p>License entitlement usages.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes the entitlement usage associated with a license.</p>"

    }
},
"com.amazonaws.licensemanager#LicenseUsageException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "LicenseUsageFailure",
            "httpResponseCode": 412
```

```
            },
            "smithy.api#documentation": "<p>You do not have enough licenses available to support a new resource
launch.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 412
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
        },
        "output": {

    "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the resource associations for the
 specified license configuration.</p>\n        <p>Resource associations need not consume licenses from a license
configuration. \n        For example, an AMI or a stopped instance might not consume a license (depending on \n
the license rules).</p>"
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results
to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationAssociations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
"traits": {
"smithy.api#documentation": " Information about the associations for the license
configuration. "
}
},
"NextToken": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrants": {
"type": "operation",
"input": {

"target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the grants distributed for the specified license. "
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
"type": "structure",
"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n

```
<li>\n <p>\n <code>GranteePrincipalARN</code>\n </p>\n </li>\n
<li>\n <p>\n <code>ProductSKU</code>\n </p>\n </li>\n <li>\n
<p>\n <code>LicenseIssuerName</code>\n
</p>\n </li>\n </ul>"
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": "<p>Token for the next set of results.</p>"
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",

"traits": {
"smithy.api#documentation": "<p>Distributed grant details.</p>"
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": "<p>Token for the next set of results.</p>"
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
```

```
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
        },
        "errors": [
            {

"target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configuration operations that failed.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
```

```
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse":
{
        "type": "structure",
        "members": {
            "LicenseOperationFailureList": {
                "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
                "traits": {
                    "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurations": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
        },

    "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
```

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            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configurations
 for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
configurations.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next
 set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n                Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n                Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n
<p>\n                <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license
enforcement is used. \n                Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p>\n
    </li>\n            <li>\n                <p>\n                <code>usagelimitExceeded</code> - A Boolean value that
indicates whether the available licenses have been exceeded. \n                Logical operators are
```

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<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n         </ul>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurations": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurations",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",

         "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasks": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
             },
            {
```

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license type conversion tasks for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
"type": "structure",
"members": {
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {

"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " \n Filters to scope the results. Valid filters are <code>ResourceArns</code> and <code>Status</code>.\n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
"type": "structure",
"members": {
"LicenseConversionTasks": {
"target": "com.amazonaws.licensemanager#LicenseConversionTasks",
"traits": {
"smithy.api#documentation": " Information about the license configuration tasks for your account. "
}
},

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            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target":
"com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the report generators for your account.</p>"
```

```
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest":
{
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:
</p>\n        <ul>\n            <li>\n                <p>\n                <code>LicenseConfigurationArn</code>\n
</p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits":
{
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
        "type": "structure",
        "members": {
            "ReportGenerators": {
                "target": "com.amazonaws.licensemanager#ReportGeneratorList",
                "traits": {
                    "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
```

```
            }
            },
            "traits": {
                "smithy.api#output": {}
            }
        },
        "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
            "type": "operation",
            "input": {
                "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
            },
            "output": {
                "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
            },
            "errors": [
                {
                    "target": "com.amazonaws.licensemanager#AccessDeniedException"
                },
                {
                    "target": "com.amazonaws.licensemanager#AuthorizationException"
                },
                {
                    "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
                },
                {
                    "target": "com.amazonaws.licensemanager#RateLimitExceededException"
                 },
                {
                    "target": "com.amazonaws.licensemanager#ServerInternalException"
                }
            ],
            "traits": {
                "smithy.api#documentation": "<p>Describes the license configurations for the specified resource.</p>"
            }
        },
        "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
            "type": "structure",
            "members": {
                "ResourceArn": {
                    "target": "com.amazonaws.licensemanager#String",
                    "traits": {
                        "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a resource that has an
associated license configuration.</p>",
                        "smithy.api#required": {}
                    }
                },
                "MaxResults": {
                    "target": "com.amazonaws.licensemanager#BoxInteger",
```

"traits": {

"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
"type": "structure",
"members": {
"LicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " License configurations associated with a resource. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

```
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all versions of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
        "type": "structure",
        "members": {
            "Licenses": {
```

```
            "target": "com.amazonaws.licensemanager#LicenseList",
            "traits": {
                "smithy.api#documentation": "<p>License details.</p>"
            }
        },

"NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListLicenses": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicensesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicensesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
         },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the licenses for your account.</p>"
    }
```

```
    },
    "com.amazonaws.licensemanager#ListLicensesRequest": {
      "type": "structure",
      "members": {
        "LicenseArns": {
          "target": "com.amazonaws.licensemanager#ArnList",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
          }
        },

     "Filters": {
          "target": "com.amazonaws.licensemanager#FilterList",
          "traits": {
            "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n          <li>\n            <p>\n              <code>Beneficiary</code>\n            </p>\n
      </li>\n          <li>\n            <p>\n              <code>ProductSKU</code>\n            </p>\n          </li>\n
   <li>\n            <p>\n              <code>Fingerprint</code>\n            </p>\n          </li>\n          <li>\n
<p>\n              <code>Status</code>\n            </p>\n          </li>\n        </ul>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token
 for the next set of results.</p>"
          }
        },
        "MaxResults": {
          "target": "com.amazonaws.licensemanager#MaxSize100",
          "traits": {
            "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#ListLicensesResponse": {
      "type": "structure",
      "members": {
        "Licenses": {
          "target": "com.amazonaws.licensemanager#LicenseList",
          "traits": {
            "smithy.api#documentation": "<p>License details.</p>"
          }
        },
```

"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists grants that are received. Received grants are grants created while specifying the\n recipient as this Amazon Web Services account, your organization, or an organizational unit\n (OU) to which this member account belongs. "
}

```
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsForOrganization": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target":
"com.amazonaws.licensemanager#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Lists the grants received for all accounts in the organization.</p>"
      }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the received license.</p>",
            "smithy.api#required": {}
          }
        },
        "Filters": {
```

"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n
\n \n \n <code>ParentArn</code>\n \n \n
\n \n <code>GranteePrincipalArn</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Lists the grants the organization has received. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
"type": "structure",

"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranterAccountId</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Received grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists received licenses. "
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganization":
{
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest"

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        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {

    "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the licenses received for all accounts in the organization.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest": {
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n    <ul>\n        <li>\n            <p>\n                <code>Beneficiary</code>\n            </p>\n
    </li>\n        <li>\n            <p>\n                <code>ProductSKU</code>\n
            </p>\n        </li>\n    </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
```

```
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse": {
        "type": "structure",
        "members": {
            "Licenses": {
                "target": "com.amazonaws.licensemanager#GrantedLicenseList",
                 "traits": {
                    "smithy.api#documentation": "<p>Lists the licenses the organization has received.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
        "type": "structure",
        "members": {
            "LicenseArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
                }
            },

             "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n    <ul>\n    <li>\n    <p>\n    <code>ProductSKU</code>\n    </p>\n
```

```
</li>\n <li>\n <p>\n <code>Status</code>\n </p>\n </li>\n
<li>\n <p>\n <code>Fingerprint</code>\n </p>\n </li>\n <li>\n
<p>\n <code>IssuerName</code>\n </p>\n </li>\n <li>\n <p>\n
<code>Beneficiary</code>\n </p>\n </li>\n </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
        "type": "structure",
        "members": {
          "Licenses": {
            "target": "com.amazonaws.licensemanager#GrantedLicenseList",
            "traits": {
              "smithy.api#documentation": "<p>Received license details.</p>"
            }
          },

         "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListResourceInventory": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
```

```
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#FailedDependencyException"
        },
        {
            "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
    }
},
"com.amazonaws.licensemanager#ListResourceInventoryRequest": {
    "type": "structure",
    "members": {
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "Filters": {
            "target": "com.amazonaws.licensemanager#InventoryFilterList",
```

"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n
\n \n \n <code>application_name</code> - The name of the application. \n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n
\n \n \n <code>license_included</code> - The type of license included. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n Possible values are <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n
\n <code>platform</code> - The platform of the resource.\n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n \n \n \n
<code>resource_id</code> - The ID of the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n
<code>tag:<key></code> - The key/value combination of a tag assigned \n to the resource. Logical operators are <code>EQUALS</code> (single account) or\n <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account). \n \n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListResourceInventoryResponse": {
"type": "structure",
"members": {
"ResourceInventoryList": {
"target": "com.amazonaws.licensemanager#ResourceInventoryList",
"traits": {
"smithy.api#documentation": " Information about the resources. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListTagsForResource": {
"type": "operation",

"input": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the tags for the specified license configuration. "
}
},
"com.amazonaws.licensemanager#ListTagsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",

"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListTagsForResourceResponse": {
"type": "structure",
"members": {
"Tags": {

```
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the tags.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListTokens": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTokensRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTokensResponse"
        },
        "errors":
[
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists your tokens.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTokensRequest": {
        "type": "structure",
        "members": {
            "TokenIds": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
```

"smithy.api#documentation": " Token IDs. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filter is supported: \n
\n \n \n <code>LicenseArns</code>\n \n \n
"
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation":
" Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListTokensResponse": {
"type": "structure",
"members": {
"Tokens": {
"target": "com.amazonaws.licensemanager#TokenList",
"traits": {
"smithy.api#documentation": " Received token details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}

},
"com.amazonaws.licensemanager#ListUsageForLicenseConfiguration":
{
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists all license usage records for a license configuration, displaying license\n consumption details by resource at a selected point in time. Use this action to audit the\n current license consumption for any license inventory and configuration. "
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},

"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>resourceArn</code> - The ARN of the license configuration resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>resourceAccount</code> - The ID of the account that owns the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
"type": "structure",
"members": {

"LicenseConfigurationUsageList": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
"traits": {
"smithy.api#documentation": " Information about the license configurations. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}

```
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#Location": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#Long": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#ManagedResourceSummary": {
        "type": "structure",
        "members": {
            "ResourceType":
{
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
                }
            },
            "AssociationCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#ManagedResourceSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
        }
    },
    "com.amazonaws.licensemanager#MaxSize100": {

    "type": "integer",
        "traits": {
            "smithy.api#range": {
                "min": 1,
                "max": 100
            }
        }
    },
```

```
"com.amazonaws.licensemanager#MaxSize3StringList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#String"
    },
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 3
        }
    }
},
"com.amazonaws.licensemanager#Message": {
    "type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The key name.</p>"
            }
        },

"Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The value.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes key/value pairs.</p>"
    }
},
"com.amazonaws.licensemanager#MetadataList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Metadata"
    }
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
```

```
        },
        "traits": {
            "smithy.api#documentation": "<p>There are no entitlements found for this license, or the entitlement maximum count is reached.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#Options": {
        "type": "structure",
        "members": {
            "ActivationOverrideBehavior": {
                "target": "com.amazonaws.licensemanager#ActivationOverrideBehavior",
                "traits": {
                    "smithy.api#documentation": "<p>An activation option for your grant that determines the behavior of activating a grant.\n Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the\n <code>Status</code> parameter.</p>\n <ul>\n <li>\n <p>As a license administrator, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when activating a grant.</p>\n </li>\n <li>\n <p>As a grantor, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee\n account in your organization.</p>\n </li>\n <li>\n <p>As a grantee, if the grantor creating the distributed grant doesnt specify an\n <code>ActivationOverrideBehavior</code>, you can optionally specify one when you\n are activating the grant.</p>\n </li>\n </ul>\n <dl>\n <dt>DISTRIBUTED_GRANTS_ONLY</dt>\n <dd>\n <p>Use this value to activate a grant without replacing any member accounts\n active grants for the same product.</p>\n </dd>\n <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt>\n <dd>\n <p>Use this value to activate a grant and disable other active grants in any\n member accounts
 for the same product. This action will also replace their\n previously activated grants with this activated grant.</p>\n </dd>\n </dl>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The options you can specify when you create a new version of a grant, such as activation\n override behavior. For more information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#OrganizationConfiguration": {
        "type": "structure",
        "members": {
            "EnableIntegration": {
                "target": "com.amazonaws.licensemanager#Boolean",
                "traits": {
                    "smithy.api#default": false,
                    "smithy.api#documentation":
```

" Enables Organizations integration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Configuration information for Organizations. "
}
},
"com.amazonaws.licensemanager#PrincipalArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 1
}
}
},
"com.amazonaws.licensemanager#ProductInformation": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterList": {
"target": "com.amazonaws.licensemanager#ProductInformationFilterList",
"traits": {
"smithy.api#documentation": " A Product information filter consists of a <code>ProductInformationFilterComparator</code> which is a logical operator, a <code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. \n Accepted values for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. \n The following filters and are supported when the resource type \n is <code>SSM_MANAGED</code>: \n \n \n \n <code>Application Name</code> - The name of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Publisher</code> - The publisher of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Version</code> - The version of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform

Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n
\n \n \n <code>Platform Type</code> - The platform type.\n
Logical operator is <code>EQUALS</code>. \n
\n \n \n <code>Tag:key</code> - The key of a tag attached to an
Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is
<code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the
example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you
are not using values for the key.\n \n \n \n \n
<code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from
automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n
\n \n <code>License Included</code> - The type of license included.\n Logical
operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n Possible values are:
<code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-
web</code> | \n <code>windows-server-datacenter</code>. \n \n \n
The following filters and logical operators are supported when the resource type\n is
<code>RDS</code>: \n \n \n \n <code>Engine Edition</code> -
The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible
values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-
se2</code>. \n \n \n \n <code>License Pack</code> - The license
pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data
guard</code> | \n <code>diagnostic pack sqlt</code> | \n
<code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n
\n ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information for a license configuration. "
}
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
"type": "structure",
"members": {
"ProductInformationFilterName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Filter name. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterValue": {
"target": "com.amazonaws.licensemanager#StringList",

"traits": {
"smithy.api#documentation": " Filter value. "
}
},

```
        "ProductInformationFilterComparator": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Logical operator.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes product information filters.</p>"
    }
},
"com.amazonaws.licensemanager#ProductInformationFilterList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformationFilter"
    }
},
"com.amazonaws.licensemanager#ProductInformationList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformation"
     }
},
"com.amazonaws.licensemanager#ProvisionalConfiguration": {
    "type": "structure",
    "members": {
        "MaxTimeToLiveInMinutes": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum time for the provisional configuration, in minutes.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
    }
},
"com.amazonaws.licensemanager#RateLimitExceededException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
```

"aws.protocols#awsQueryError": {
"code": "RateLimitExceeded",
"httpResponseCode": 429
},
"smithy.api#documentation": " Too many requests have been submitted. Try again after a brief wait. ",
"smithy.api#error": "client",
"smithy.api#httpError": 429
}
},
"com.amazonaws.licensemanager#ReceivedMetadata": {
"type": "structure",
"members": {
"ReceivedStatus": {
"target": "com.amazonaws.licensemanager#ReceivedStatus",
"traits": {
"smithy.api#documentation": " Received status. "
}
},
"ReceivedStatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Received status reason. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations. "
}
}
},
"traits": {
"smithy.api#documentation": " Metadata associated with received licenses and grants. "
}
},
"com.amazonaws.licensemanager#ReceivedStatus": {
"type": "enum",
"members": {
"PENDING_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_WORKFLOW"
}
},
"PENDING_ACCEPT": {
"target": "smithy.api#Unit",

"traits": {
"smithy.api#enumValue":
"PENDING_ACCEPT"
}
},
"REJECTED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "REJECTED"
}
},
"ACTIVE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ACTIVE"
}
},
"FAILED_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "FAILED_WORKFLOW"
}
},
"DELETED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DELETED"
}
},
"DISABLED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DISABLED"
}
},
"WORKFLOW_COMPLETED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "WORKFLOW_COMPLETED"
}
}
}
},
"com.amazonaws.licensemanager#RedirectException": {
"type": "structure",
"members": {
"Location": {
"target": "com.amazonaws.licensemanager#Location",

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            "traits": {
                "smithy.api#httpHeader": "Location"
            }
        },
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
         "smithy.api#error": "client",
        "smithy.api#httpError": 308
    }
},
"com.amazonaws.licensemanager#RejectGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#RejectGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#RejectGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target":
"com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
```

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        }
    },
    "com.amazonaws.licensemanager#RejectGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}

  }
    },
    "com.amazonaws.licensemanager#RejectGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#RenewType":
{
        "type": "enum",
        "members": {
```

"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"WEEKLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Weekly"
}
},
"MONTHLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Monthly"
}
}
}
},
"com.amazonaws.licensemanager#ReportContext": {
"type": "structure",
"members": {
"licenseConfigurationArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration that this generator reports on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details of the license configuration that this generator reports on. "
}
},
"com.amazonaws.licensemanager#ReportFrequency": {
"type": "structure",
"members": {
"value": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Number of times within the frequency period that a report is generated. \n The only supported value is <code>1</code>. "
}
},
"period": {

"target": "com.amazonaws.licensemanager#ReportFrequencyType",

"traits": {
"smithy.api#documentation": " Time period between each report. The period can be daily, weekly, or monthly. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"com.amazonaws.licensemanager#ReportFrequencyType": {
"type": "enum",
"members": {
"DAY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DAY"
}
},
"WEEK": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "WEEK"
}
},
"MONTH": {
"target": "smithy.api#Unit",
"traits":
{
"smithy.api#enumValue": "MONTH"
}
}
}
},
"com.amazonaws.licensemanager#ReportGenerator": {
"type": "structure",
"members": {
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the report generator. "
}
},
"ReportType": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {

"smithy.api#documentation": " Type of reports that are generated. "
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " License configuration type for this generator. "
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. "
}
},
"LastRunStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the last report generation attempt. "
}
},
"LastRunFailureReason": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Failure message for the last report generation attempt. "
}
},
"LastReportGenerationTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the last report was generated at. "
}
},
"ReportCreatorAccount": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Web Services account ID used to create the report generator. "
}
},

"Description": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"S3Location": {
"target": "com.amazonaws.licensemanager#S3Location",
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the report was created. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags associated with the report generator. "
}

}
},
"traits": {
"smithy.api#documentation": " Describe the details of a report generator. "
}
},
"com.amazonaws.licensemanager#ReportGeneratorList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ReportGenerator"
}
},
"com.amazonaws.licensemanager#ReportGeneratorName": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 100
}
}
},
"com.amazonaws.licensemanager#ReportType": {

"type": "enum",
"members": {
"LICENSE_CONFIGURATION_SUMMARY_REPORT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "LicenseConfigurationSummaryReport"
}

},
"LICENSE_CONFIGURATION_USAGE_REPORT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "LicenseConfigurationUsageReport"
}
}
}
},
"com.amazonaws.licensemanager#ReportTypeList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ReportType"
}
},
"com.amazonaws.licensemanager#ResourceInventory": {
"type": "structure",
"members": {
"ResourceId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits":
{
"smithy.api#documentation": " Type of resource. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"Platform": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Platform of the resource. "
}
},
"PlatformVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Platform version of the resource in the inventory. "
}
},
"ResourceOwningAccountId":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the account that owns the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about a resource. "
}
},
"com.amazonaws.licensemanager#ResourceInventoryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ResourceInventory"
}
},
"com.amazonaws.licensemanager#ResourceLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "ResourceLimitExceeded",

"httpResponseCode": 400
},
"smithy.api#documentation": " Your resource limits have been exceeded. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#ResourceNotFoundException": {
"type": "structure",
"members": {

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        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "InvalidResource.NotFound",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The resource cannot be found.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceType": {
    "type": "enum",
    "members": {
        "EC2_INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_INSTANCE"
            }
        },
        "EC2_HOST": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_HOST"
            }
        },
        "EC2_AMI": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_AMI"
            }
        },
        "RDS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "RDS"
            }
        },
        "SYSTEMS_MANAGER_MANAGED_INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
            }
        }
    }
```

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    },
    "com.amazonaws.licensemanager#S3Location": {
      "type": "structure",
      "members": {
        "bucket": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Name of the S3 bucket reports are published to.</p>"
          }
        },
        "keyPrefix": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Prefix of the S3 bucket reports are published to.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
      }
    },
    "com.amazonaws.licensemanager#ServerInternalException": {
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
      "traits": {
        "aws.protocols#awsQueryError": {
          "code": "InternalError",
          "httpResponseCode": 500
        },
        "smithy.api#documentation": "<p>The server experienced an internal error. Try again.</p>",
        "smithy.api#error": "server",
        "smithy.api#httpError": 500
      }
    },
    "com.amazonaws.licensemanager#SignedToken": {
      "type": "string",
      "traits": {
        "smithy.api#length": {
          "min": 4096
        }
      }
    },
    "com.amazonaws.licensemanager#StatusReasonMessage": {
```

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        "type": "string",
        "traits":
{
            "smithy.api#length": {
                "min": 0,
                "max": 400
            },
            "smithy.api#pattern": "^[\\s\\S]+$"
        }
    },
    "com.amazonaws.licensemanager#String": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#StringList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },
    "com.amazonaws.licensemanager#Tag": {
        "type": "structure",
        "members": {
            "Key": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag key.</p>"
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
"<p>Tag value.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },
    "com.amazonaws.licensemanager#TagList": {
        "type": "list",
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"member": {
"target": "com.amazonaws.licensemanager#Tag"
}
},
"com.amazonaws.licensemanager#TagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#TagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#TagResourceResponse"
},
"errors": [
{
"target":
"com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Adds the specified tags to the specified license configuration. "
}
},
"com.amazonaws.licensemanager#TagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits":
{
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license
configuration. ",
"smithy.api#required": {}
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",

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                "traits": {
                    "smithy.api#documentation": "<p>One or more tags.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#TagResourceResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#TokenData": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
            "TokenType": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>.</p>"
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "ExpirationTime": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Token expiration time, in ISO8601-UTC
 format.</p>"
                }
            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
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                "traits": {
                    "smithy.api#documentation": "<p>Data specified by the caller.</p>"
                }
            },
            "RoleArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the roles included in the
token.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token status. The possible values are
<code>AVAILABLE</code> and <code>DELETED</code>.</p>"
                }
            }
        },
        "traits": {

            "smithy.api#documentation": "<p>Describes a token.</p>"
        }
    },
    "com.amazonaws.licensemanager#TokenList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#TokenData"
        }
    },
    "com.amazonaws.licensemanager#TokenString": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 4096
            },
            "smithy.api#pattern": "^\\S+$"
        }
    },
    "com.amazonaws.licensemanager#TokenType": {
        "type": "enum",
        "members": {
            "REFRESH_TOKEN": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "REFRESH_TOKEN"
                }
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            }
        }
    },
    "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException":
 {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The digital signature method is unsupported. Try your request
again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#UntagResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UntagResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UntagResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Removes the specified tags from the specified license
configuration.</p>"
        }
    },
```

"com.amazonaws.licensemanager#UntagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"TagKeys": {
"target": "com.amazonaws.licensemanager#TagKeyList",
"traits": {
"smithy.api#documentation": " Keys identifying the tags to remove. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UntagResourceResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"

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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Modifies the attributes of an existing license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseConfigurationStatus": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
                "traits": {
                    "smithy.api#documentation": "<p>New status of the license configuration.</p>"
                }
            },
            "LicenseRules": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {

    "smithy.api#documentation": "<p>New license rule. The only rule that you can add after you create a license\n
    configuration is licenseAffinityToHost.</p>"
                }
            },
            "LicenseCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>New number of licenses managed by the license
configuration.</p>"
                }
            },
            "LicenseCountHardLimit": {
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"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " New hard limit of the number of available licenses. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New name
of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New description of the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " New product information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is
uninstalled. "
}
}
},
"traits":
{
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"

```
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
             },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates a report generator.</p>\n        <p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to update.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportGeneratorName": {
```

"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation":
" Type of reports to generate. The following report types are supported: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " The report context. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits":
{
"smithy.api#documentation": " Frequency by which reports are generated. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse":
{
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},

{
"target": "com.amazonaws.licensemanager#InvalidResourceStateException"
},
{
"target": "com.amazonaws.licensemanager#LicenseUsageException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Adds or removes the specified license configurations for the specified Amazon Web Services resource. \n You can update the license specifications of AMIs, instances, and hosts.\n You cannot update the license specifications for launch templates and CloudFormation templates, \n as they send license configurations to the operation that creates the resource. "

```
        }
    },

    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon Web Services
resource.</p>",
                    "smithy.api#required": {}
                }
            },
            "AddLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
                }
            },
            "RemoveLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation":
 "<p>ARNs of the license configurations to remove.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
        },
        "errors": [
```

```
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon S3 bucket where the License
 Manager information is stored.</p>"
                }
            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts.</p>"
                }
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Enables integration with Organizations for cross-account discovery.</p>"
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
```

"smithy.api#documentation": " Activates cross-account discovery. "

}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UsageOperation": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
}
}
},
"com.amazonaws.licensemanager#ValidationException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The provided input is not valid. Try your request again. ",

"smithy.api#error": "client",
"smithy.api#httpError": 400
}
}
}
}

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
```

```
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version
 of the license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus
```

```
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack,
 options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if
 err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "DeleteLicense",
 }
}
```

1.6073 aws-sdk-go-v2-service-internal-presigned-url 1.11.0

1.6073.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-
Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil,
 err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
```

```
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err !=
 nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
```

```
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack);
err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "AssociateLicense",
 }
}
```

AWS SDK for Go

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```
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
```

```
    - name: Get Target Files
      run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
    - name: Checkout scancode
      uses: actions/checkout@v2
      with:
        repository: nexB/scancode-toolkit
        path: scancode-toolkit
        fetch-depth: 1
    - name: Set up Python ${{ matrix.python-version }}
       uses: actions/setup-python@v2
      with:
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
```

```
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
```

```
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return
 err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
```

```
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "CheckInLicense",
 }
}
{
  "smithy": "2.0",
  "shapes": {
      "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
          "type": "integer"
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
          "type": "long"
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
          "type": "structure",
          "members": {
              "Name": {
                  "target": "smithy.api#String",
                  "traits": {
                      "smithy.api#documentation": "<p>The type of name to filter by.</p>"
                  }
              },
              "Values": {
                  "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
                  "traits": {
                      "smithy.api#documentation": "<p>One or more values for the name to filter by.</p>"
                  }
              },
```

"Operator": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
"traits": {
"smithy.api#documentation": " An operator for filtering results. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter object that is used to return more specific results from a describe operation.\n Filters can be used to match a set of resources by specific criteria. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
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"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
},
"output": {

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the Linux subscriptions service settings. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/GetServiceSettings"
},
"smithy.api#idempotent": {}
}
},

"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " Lists the settings defined for Linux subscriptions discovery. The settings include if\n Organizations integration has been enabled, and which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation": " A message which details the Linux subscriptions service settings current status. "
}
},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Region in which License Manager displays the aggregated data for Linux\n subscriptions. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
"type": "structure",
"members": {

"AmiId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The AMI ID used to launch the instance. "
}
},
"InstanceID": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The instance ID of the resource. "
}
},
"InstanceType": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The instance type of the resource. "
}

},
"AccountID": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The account ID which owns the instance. "
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of the instance. "
}
},
"Region": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The Region the instance is running in. "
}
},
"UsageOperation": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The usage operation of the instance. For more information, see For more information, see\n Usage\n operation values in the License Manager User Guide. "
}
},
"ProductCode": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",

"traits": {
"smithy.api#documentation": " The product code for the instance. For more information, see Usage\n operation values in the License Manager User Guide . "
}
},
"LastUpdatedTime": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The time in which the last discovery updated the instance details. "
}
},
"SubscriptionName": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the subscription being used by the instance. "
}
}
},
"traits": {
"smithy.api#documentation": " Details discovered information about a running instance using Linux subscriptions. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " An exception occurred with the service. ",
"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
"type": "service",
"version": "2018-05-10",
"operations": [
{

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
}
],

"traits": {
"aws.api#service": {
"sdkId": "License Manager Linux Subscriptions",
"arnNamespace": "license-manager-linux-subscriptions",
"cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
},
"aws.auth#sigv4": {
"name": "license-manager-linux-subscriptions"
},
"aws.protocols#restJson1": {},
"smithy.api#cors": {
"additionalAllowedHeaders": [
"*",
"content-type",
"x-amz-content-sha256",
"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",
"x-api-key",
"authorization",
"x-amz-date",

"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"
]
},
"smithy.api#documentation": "<p>With License Manager, you can discover and track your commercial

Linux subscriptions on running\n Amazon EC2 instances.</p>",
"smithy.api#title": "AWS License Manager Linux Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The
AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",

"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}
},
"rules": [
{
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{
"fn": "isSet",
"argv": [
{
"ref": "Endpoint"
}
]
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"rules": [
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  "conditions": [
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        "fn": "booleanEquals",
        "argv": [
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            "ref": "UseFIPS"
          },
          true
        ]
      }
    ],
    "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
    "type": "error"
  },
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    "conditions": [],
    "type": "tree",
    "rules": [
      {

    "conditions": [
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            "fn": "booleanEquals",
            "argv": [
              {
                "ref": "UseDualStack"
              },
              true
            ]
          }
        ],
        "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
        "type": "error"
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      {
        "conditions": [],

"endpoint": {
          "url": {
            "ref": "Endpoint"
          },
          "properties": {},
          "headers": {}
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        ]
    }
]
},
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"argv": [
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                            "argv": [
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                                }
                            ],

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                    ],
                    "type": "tree",
                    "rules": [
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                            "conditions": [
                                {
                                    "fn": "booleanEquals",
                                    "argv": [
                                        {
                                            "ref": "UseFIPS"
                                        },
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                    ]
                },

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                    "fn": "booleanEquals",
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                        },
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                                    "fn": "getAttr",
                                    "argv": [
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                                            "ref": "PartitionResult"
                                        },
                                        "supportsFIPS"
                                    ]

}
                            ]
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                            "argv": [
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                                {
                                    "fn": "getAttr",
                                    "argv": [
                                        {
                                            "ref": "PartitionResult"
                                        },

                            "supportsDualStack"
                                    ]
                                }
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```
                    ]
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            "rules": [
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                    "type": "tree",
                    "rules": [
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        "conditions": [],
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fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                "properties": {},
                                "headers": {}
                            },
                            "type": "endpoint"
                        }
                    ]
                }
            ]

        },
            {
                "conditions": [],
                "error": "FIPS and DualStack are enabled, but this partition does not support
one or both",
                "type": "error"
            }
        ]
    },
    {
        "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [
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"ref": "UseFIPS"
                    },
                    true
                ]
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        ],
        "type": "tree",
        "rules": [
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            "argv": [
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{
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                "argv": [
                    {
                        "ref": "PartitionResult"
                    },
                    "supportsFIPS"
                ]
            }
            ]
        }
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            "type": "tree",
            "rules": [
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fips.{Region}.{PartitionResult#dnsSuffix}",
                        "properties": {},
                        "headers": {}

                    },
                    "type": "endpoint"
                }
            ]
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    ]
},
{
    "conditions": [],
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    "type": "error"
}
]
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},
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                              "ref": "UseDualStack"
                            },
                            true
                          ]
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                      "type": "tree",
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                              "argv": [
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                                {
                                  "fn": "getAttr",
                                  "argv": [
                                    {
                                      "ref": "PartitionResult"
                                    },
                                    "supportsDualStack"
                                  ]
                                }
                              ]
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                                {
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subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
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                                        },
                                        "type": "endpoint"
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                            }
                        ]
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                        "type": "error"
                    }
                ]
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                "type": "tree",
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"https://license-manager-linux-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
                            "properties": {},
                            "headers": {}
                        },
                        "type": "endpoint"
                    }
                ]
            }
        ]
    }
]
},
{
    "conditions": [],
    "error": "Invalid Configuration: Missing Region",
    "type": "error"
}
]
}
]
},
"smithy.rules#endpointTests": {
    "testCases": [
        {
            "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
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"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
}
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"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {

"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
}
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{
"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
}
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"params": {
"Region": "us-east-1",
"UseFIPS": false,

"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {

"url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint":

{
"url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
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"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint":
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"url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": true

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    }
  },
  {
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    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
      }
    },
    "params": {
      "Region": "us-gov-east-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
    "expect": {
      "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
    },
    "params": {
      "Region": "us-iso-east-1",
      "UseFIPS": true,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
      }
    },
    "params": {
      "Region": "us-iso-east-1",
      "UseFIPS": true,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
      "error": "DualStack is enabled but this partition does not support DualStack"
    },
    "params": {
      "Region": "us-iso-east-1",
      "UseFIPS": false,
      "UseDualStack": true
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                }
            },
            {

    "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
                "expect": {
                    "endpoint": {
                        "url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
                    }
                },
                "params": {
                    "Region": "us-iso-east-1",
                    "UseFIPS": false,
                    "UseDualStack": false
                }
            },
            {
                "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
                "expect": {
                    "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
                },
                "params": {

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                    "UseDualStack": true
                }
            },
            {
                "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
                "expect": {
                    "endpoint": {
                        "url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
                    }
                },
                "params": {
                    "Region": "us-isob-east-1",
                    "UseFIPS": true,
                    "UseDualStack": false
                }
            },
            {
                "documentation": "For region us-isob-east-1 with FIPS disabled
and DualStack enabled",
                "expect": {
                    "error": "DualStack is enabled but this partition does not support DualStack"
                },
                "params": {
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"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",

"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",

"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},

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            {
              "documentation": "For custom endpoint with fips enabled and dualstack disabled",
              "expect": {
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": false,

        "Endpoint": "https://example.com"
              }
            },
            {
              "documentation": "For custom endpoint with fips disabled and dualstack enabled",
              "expect": {
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": true,
                "Endpoint": "https://example.com"
              }
            },
            {
              "documentation": "Missing region",
              "expect": {
                "error": "Invalid Configuration: Missing Region"
              }

      }
          ],
          "version": "1.0"
        }
    }
  },
  "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
    "type": "string",
    "traits": {
      "smithy.api#enum": [
        {
          "name": "Enabled",
          "value": "Enabled",
          "documentation": "Enabled LinuxSubscriptionsDiscovery"
        },
        {
          "name": "Disabled",
```

"value": "Disabled",
"documentation": "Disabled LinuxSubscriptionsDiscovery"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
"type": "structure",
"members": {
"SourceRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Regions in which to discover data for Linux subscriptions. ",
"smithy.api#required": {}
}
},
"OrganizationIntegration": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
"traits": {
"smithy.api#documentation": " Details if you have enabled resource discovery across your accounts in Organizations. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Lists the settings defined for discovering Linux subscriptions. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the running Amazon EC2 instances that were discovered with
commercial Linux\n      subscriptions.</p>",
            "smithy.api#http": {

      "code": 200,
                "method": "POST",
                "uri": "/subscription/ListLinuxSubscriptionInstances"
            },
            "smithy.api#idempotent": {},
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "Instances"
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest": {
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify. For example, you can filter by
 the name of\n        <code>AmiID</code> with an optional operator to see subscriptions that match, partially\n
match, or don't match a certain Amazon Machine Image (AMI) ID.</p>\n        <p>The valid names for this filter
are:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>AmiID</code>\n                </p>\n
</li>\n            <li>\n                <p>\n                    <code>InstanceID</code>\n                </p>\n            </li>\n
<li>\n                <p>\n                    <code>AccountID</code>\n                </p>\n            </li>\n            <li>\n
<p>\n                    <code>Status</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>Region</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>UsageOperation</code>\n                </p>\n            </li>\n            <li>\n
    <p>\n                    <code>ProductCode</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
     <code>InstanceType</code>\n                </p>\n            </li>\n        </ul>\n        <p>The valid Operators for this
filter are:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>contains</code>\n                </p>\n
</li>\n            <li>\n                <p>\n                    <code>equals</code>\n                </p>\n            </li>\n            <li>\n
        <p>\n                    <code>Notequal</code>\n                </p>\n            </li>\n        </ul>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
```

```
}
        },
        "NextToken": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>",
            "smithy.api#length": {
              "min": 1,
              "max": 16384
            }
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
      "type": "structure",
      "members": {
        "Instances": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
          "traits": {
            "smithy.api#documentation":
 "<p>An array that contains instance objects.</p>"
          }
        },
        "NextToken": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
        },
```

```
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the Linux subscriptions that have been discovered. If you have
linked your\n      organization, the returned results will include data aggregated across your accounts in\n
Organizations.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/ListLinuxSubscriptions"
            },
            "smithy.api#idempotent": {},
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "Subscriptions"
            }

        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify. For example, you can filter by the name of\n
 <code>Subscription</code> with an optional operator to see subscriptions that match,\n      partially match, or don't
match a certain subscription's name.</p>\n        <p>The valid names for this filter are:</p>\n        <ul>\n
<li>\n            <p>\n                <code>Subscription</code>\n            </p>\n        </li>\n        </ul>\n
<p>The valid Operators for this filter are:</p>\n
        <ul>\n        <li>\n            <p>\n                <code>contains</code>\n            </p>\n        </li>\n
<li>\n            <p>\n                <code>equals</code>\n            </p>\n        </li>\n        <li>\n            <p>\n
            <code>Notequal</code>\n            </p>\n        </li>\n        </ul>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
```

```
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>",
                    "smithy.api#length": {

                     "min": 1,
                        "max": 16384
                    }
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
        "type": "structure",
        "members": {
            "Subscriptions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
                "traits": {
                    "smithy.api#documentation": "<p>An array that contains subscription objects.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for
 the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "name": "EQUAL",
                    "value": "Equal",
                    "documentation": "Equal operator"
                },
                {
                    "name": "NOT_EQUAL",
                    "value": "NotEqual",
```

"documentation": "Not equal operator"
},
{
"name": "CONTAINS",
"value": "Contains",
"documentation": "Contains operator"
}
],
"smithy.api#length": {
"min": 1,
"max": 20
}
}
},

"com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "Enabled",
"value": "Enabled",
"documentation": "Enabled OrganizationIntegration"
},
{
"name": "Disabled",
"value": "Disabled",
"documentation": "Disabled OrganizationIntegration"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
"type": "list",
"member": {
"target": "smithy.api#String"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
"type": "string",
"traits": {
"smithy.api#enum": [

{
"name": "InProgress",
"value": "InProgress",
"documentation": "InProgress status"
},

```
            {
              "name": "Completed",
              "value": "Completed",
              "documentation": "Completed status"
            },
            {
              "name": "Successful",
              "value": "Successful",
              "documentation": "Successful status"
            },
            {
              "name": "Failed",
              "value": "Failed",
              "documentation": "Failed status"
            }
          ]
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
        "type": "list",
        "member": {
          "target": "smithy.api#String",
          "traits":
{
            "smithy.api#length": {
              "min": 1,
              "max": 100
            }
          }
        },
        "traits": {
          "smithy.api#length": {
            "min": 1,
            "max": 100
          },
          "smithy.api#uniqueItems": {}
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
        "type": "map",
        "key": {
          "target": "smithy.api#String"
        },
        "value": {
          "target": "smithy.api#String"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
```

"type": "structure",
"members": {
"Name": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the subscription. "

}
},
"Type": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own\n Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the\n Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS. "
}
},
"InstanceCount": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
"traits": {
"smithy.api#documentation": " The total amount of running instances using this subscription. "
}
}
},
"traits": {
"smithy.api#documentation": " An object which details a discovered Linux subscription. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request was denied due to request throttling. ",
"smithy.api#error": "client"
}
},

"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
},

"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates the service settings for Linux subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/UpdateServiceSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest":
{
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Describes if the discovery of Linux subscriptions is enabled. ",
"smithy.api#required": {}
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The
settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated
from. ",

"smithy.api#required": {}
}
},
"AllowUpdate": {
"target": "smithy.api#Boolean",
"traits": {
"smithy.api#documentation": " Describes if updates are allowed to the service settings for Linux subscriptions. If you\n allow updates, you can aggregate Linux subscription data in more than one home Region. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},

"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation":
" A message which details the Linux subscriptions service settings current status. "
}
},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {

"smithy.api#documentation": " The Region in which License Manager displays the aggregated data for Linux\n subscriptions. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The provided input is not valid. Try your request again. ",
"smithy.api#error": "client"
}
}
}
}

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
```

```
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //   - Beneficiary
 //   - ProductSKU
 //   - Fingerprint
 //
   - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
```

```
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
if err != nil {
 return err
}
if
err := addProtocolFinalizerMiddlewares(stack, options, "ListLicenses"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:
     ServiceID,
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
```

```
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 //
 This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
```

```
}
err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack,
options, "DisassociateLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
```

```
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata
 {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
 CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
```

```
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource
 Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil
 {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
```

```
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier
 that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData
```

```
 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutBorrowLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return
```

```
 err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager
```

```
import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide
 to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
 // borrow configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration
```

```
 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //
 // This member is required.
 LicenseName *string

 // Product name.
 //
 // This member is required.
 ProductName *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity
 *types.DatetimeRange

 // Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string
```

```
 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
  return fmt.Errorf("add
 protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
```

```
  Region:       region,
  ServiceID:     ServiceID,
  OperationName:
 "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
```

```
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return
 err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
```

```
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack);
err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
```

```
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "GetLicense",
 }
}
```

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```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
```

```
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
   - ProductSKU
 //   - Status
 //   - Fingerprint
 //   - IssuerName
 //   - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense
```

```
 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{},
 middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
```

```
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack);
 err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "ListReceivedLicenses",
```

}
}

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```
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException": {
      "type": "structure",
      "members": {
        "message": {
          "target": "smithy.api#String"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>You don't have sufficient access to perform this action.</p>",
        "smithy.api#error": "client"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
      "type": "structure",
      "members": {
        "DirectoryId": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The directory ID for an Active Directory identity provider.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation":
```

" Details about an Active Directory identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUser": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Associates the user to an EC2 instance to utilize user-based subscriptions. \n <note>\n Your estimated bill for charges on the number of users and related costs will take 48\n hours to appear for billing periods that haven't closed (marked as Pending billing status) in Amazon Web Services Billing. For more information, see Viewing your\n monthly charges in the Amazon Web Services Billing User Guide. \n </note>",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/AssociateUser"
},
"smithy.api#idempotent": {}
}

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest": {
      "type": "structure",
      "members": {
        "Username": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
            "smithy.api#required": {}
          }
        },
        "InstanceId": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The ID of the
EC2 instance, which provides user-based subscriptions.</p>",
            "smithy.api#required": {}
          }
        },
        "IdentityProvider": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
          "traits": {
            "smithy.api#documentation": "<p>The identity provider of the user.</p>",
            "smithy.api#required": {}
          }
        },
        "Domain": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The domain name of the user.</p>"
          }
        }
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse": {
      "type": "structure",
      "members": {
        "InstanceUserSummary": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
           "traits": {
            "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
            "smithy.api#required": {}
          }
        }
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#BoxInteger": {
      "type": "integer"
```

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#ConflictException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request couldn't be completed because it conflicted with the current
state of the\n      resource.</p>",
            "smithy.api#error": "server"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider":
 {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deregisters the identity provider from providing user-based
```

subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/DeregisterIdentityProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#documentation":
" Metadata that describes the results of an identity provider operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUser": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse"

```
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Disassociates the user from an EC2 instance providing user-based
subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/DisassociateUser"
            },
            "smithy.api#idempotent": {}
        }

    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
```

"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse": {
"type": "structure",
"members": {
"InstanceUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}
}
}
}
},

"com.amazonaws.licensemanagerusersubscriptions#Filter": {
"type": "structure",
"members": {
"Attribute": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of an attribute to use as a filter. "
}
},
"Operation": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of search (For example, eq, geq, leq) "

```
            }
          },
          "Value": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Value of the filter.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>A filter name and value pair that is used
 to return more specific results from a describe\n      operation. Filters can be used to match a set of resources by
specific criteria, such as tags,\n      attributes, or IDs.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#FilterList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
        "type": "union",
        "members": {
          "ActiveDirectoryIdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
            "traits": {
              "smithy.api#documentation": "<p>An object that details an Active Directory identity provider.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation":
 "<p>Details about an identity provider.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {
        "type": "structure",
        "members": {
          "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
              "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
              "smithy.api#required": {}
            }
          },
          "Settings": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
```

"traits": {
"smithy.api#documentation": " An object that details the registered identity providers product related configuration\n settings such as the subnets to provision VPC endpoints. ",
"smithy.api#required":
{}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of an identity provider. ",
"smithy.api#required": {}
}
},
"FailureMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The failure message associated with an identity provider. "
}
}
},
"traits": {
"smithy.api#documentation":
" Describes an identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceSummary": {
"type": "structure",
"members": {
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}

```
            }
        },
        "Status": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The status
of an EC2 instance resource.</p>",
                "smithy.api#required": {}
            }
        },
        "Products": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StringList",
            "traits": {
                "smithy.api#documentation": "<p>A list of provided user-based subscription products.</p>",
                "smithy.api#required": {}
            }
        },
        "LastStatusCheckDate": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The date of the last status check.</p>"
            }
        },
        "StatusMessage": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The status message for an EC2 instance.</p>"
            }

    }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes an EC2 instance providing user-based subscriptions.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
```

"smithy.api#required": {}
}
},
"InstanceId": {
"target": "smithy.api#String",
"traits":
{
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of a user associated with an EC2 instance. ",
"smithy.api#required": {}
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for users of an EC2 instance. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"AssociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was associated with an EC2 instance. "
}
},
"DisassociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was disassociated from an EC2 instance. "

```
            }
          }

  },
        "traits": {
          "smithy.api#documentation": "<p>Describes users of an EC2 instance providing user-based
subscriptions.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InternalServerException": {
        "type": "structure",
        "members": {
          "message": {
            "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
          "smithy.api#error": "server"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
        "type": "service",

       "version": "2018-05-10",
        "operations": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUser"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
          },
          {
```

"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"

},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
}
],
"traits": {
"aws.api#service": {
"sdkId": "License Manager User Subscriptions",
"arnNamespace": "license-manager-user-subscriptions",
"cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
},
"aws.auth#sigv4": {
"name": "license-manager-user-subscriptions"
},
"aws.protocols#restJson1": {},
"smithy.api#cors": {
"additionalAllowedHeaders": [
"*",
"content-type",
"x-amz-content-sha256",
"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",
"x-api-key",
"authorization",
"x-amz-date",
"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",

"x-amzn-requestid",
"x-amzn-trace-id"

]
},
"smithy.api#documentation": " With License Manager, you can create user-based subscriptions to utilize licensed software with\n a per user subscription fee on Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager User Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}

},
"rules": [
{
"conditions": [
{
"fn": "isSet",
"argv": [
{

```
                "ref": "Endpoint"
            }
        ]
    }
],
"type": "tree",
"rules": [
    {
        "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [
                    {
                        "ref": "UseFIPS"
                    },

                true
                ]
            }
        ],
        "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
        "type": "error"
    },
    {
        "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [
                    {
                        "ref": "UseDualStack"
                    },
                    true
                ]
            }
        ],

"error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
        "type": "error"
    },
    {
        "conditions": [],
        "endpoint": {
            "url": {
                "ref": "Endpoint"
            },
            "properties": {},
            "headers": {}
        },
```

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                "type": "endpoint"
            }
        ]
    },
    {
        "conditions": [
            {
                "fn": "isSet",
                "argv": [

{
                    "ref": "Region"
                }
                ]
            }
        ],
        "type": "tree",
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "aws.partition",
                        "argv": [
                            {
                                "ref": "Region"
                            }
                        ],
                        "assign": "PartitionResult"
                    }
                ],
                "type": "tree",

"rules": [
                    {
                        "conditions": [
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    {
                                        "ref": "UseFIPS"
                                    },
                                    true
                                ]
                            },
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    {
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"ref": "UseDualStack"

},
true
]
}
],
"type": "tree",
"rules": [
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"conditions": [
{
"fn": "booleanEquals",
"argv": [
true,
{
"fn": "getAttr",

"argv": [
{
"ref": "PartitionResult"
},
"supportsFIPS"
]
}
]
},
{
"fn": "booleanEquals",
"argv": [
true,
{

"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},
"supportsDualStack"
]
}
]
}
],
"type": "tree",
"rules": [
{

"conditions": [],
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
},
{
"conditions": [],
"error": "FIPS and DualStack are enabled, but this partition does not support one or both",
"type": "error"
}
]
},
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseFIPS"
},
true
]
}
],
"type": "tree",

"rules": [
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"conditions": [
{
"fn": "booleanEquals",
"argv": [
true,
{
"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},
"supportsFIPS"

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                    ]
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                    ]
                }
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            "type": "tree",
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                    "conditions": [],
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fips.{Region}.{PartitionResult#dnsSuffix}",
                        "properties": {},
                        "headers": {}

        },
                    "type": "endpoint"
                }
            ]
        },
        {
            "conditions": [],
            "error": "FIPS is enabled but this partition does not support FIPS",
            "type": "error"
        }
    ]
},
{
    "conditions": [
        {
            "fn": "booleanEquals",
            "argv": [
                {
                    "ref": "UseDualStack"
                },
                true
            ]
        }
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                        {
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"fn": "getAttr",
"argv": [
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"ref": "PartitionResult"
},
"supportsDualStack"
]
}
]
}
],
"type": "tree",
"rules": [
{

"conditions": [],
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subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
},
{
"conditions": [],
"error": "DualStack is enabled but this partition does
not support DualStack",
"type": "error"
}
]
},
{
"conditions": [],
"endpoint": {
"url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
}
]

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                },
                {
                    "conditions":
[],
                    "error": "Invalid Configuration: Missing Region",
                    "type": "error"
                }
            ]
        },
        "smithy.rules#endpointTests": {
            "testCases": [
                {
                    "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
                    "expect": {
                        "endpoint": {
                            "url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
                        }
                    },
                    "params": {
                        "Region": "us-east-1",
                        "UseFIPS": true,
                        "UseDualStack": true
                    }
                },
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                    "documentation":
"For region us-east-1 with FIPS enabled and DualStack disabled",
                    "expect": {
                        "endpoint": {
                            "url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
                        }
                    },
                    "params": {
                        "Region": "us-east-1",
                        "UseFIPS": true,
                        "UseDualStack": false
                    }
                },
                {
                    "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
                    "expect": {
                        "endpoint": {
                            "url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
                        }
                    },

                "params": {
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"UseFIPS": false,
"UseDualStack": true
}
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{
"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with
FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.cn-north-
1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
}
},

"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",

"expect": {
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"url": "https://license-manager-user-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1
with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",

"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1
with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
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"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect":
{
"endpoint": {

"url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack":
true
}
},
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"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but
this partition does not support one or both"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",

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            "expect": {
              "endpoint": {
                "url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
              }
            },
            "params": {
              "Region": "us-isob-east-1",
              "UseFIPS": true,
              "UseDualStack": false
            }

        },
        {
            "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
              "error": "DualStack is enabled but this partition does not support DualStack"
            },
            "params": {
              "Region": "us-isob-east-1",
              "UseFIPS": false,
              "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
              }
            },
             "params": {
              "Region": "us-isob-east-1",
              "UseFIPS": false,
              "UseDualStack": false
            }
        },
        {
            "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
            "expect": {
              "endpoint": {
                "url": "https://example.com"
              }
            },
            "params": {
              "Region": "us-east-1",
              "UseFIPS": false,
              "UseDualStack": false,
              "Endpoint": "https://example.com"
```

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            }
        },
        {

"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://example.com"
                }
            },
            "params": {
                "UseFIPS": false,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "For custom endpoint with fips enabled and dualstack disabled",
            "expect": {
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
            },
            "params": {
                "Region": "us-east-1",
                 "UseFIPS": true,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "For custom endpoint with fips disabled and dualstack enabled",
            "expect": {
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": true,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "Missing region",
            "expect": {
                 "error": "Invalid Configuration: Missing Region"
            }
        }
    ],
    "version": "1.0"
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            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the identity providers for user-based subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/ListIdentityProviders"
            },
            "smithy.api#paginated":
{
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "IdentityProviderSummaries"
            }
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        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest": {
        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse":
{
        "type": "structure",
        "members": {
            "IdentityProviderSummaries": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the list identity providers operation.</p>",
                    "smithy.api#required": {}
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListInstances": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest"
         },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse"
        },
        "errors": [
            {
```

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            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the EC2 instances providing user-based subscriptions.</p>",
        "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/instance/ListInstances"
        },
        "smithy.api#paginated": {
            "inputToken": "NextToken",
            "outputToken": "NextToken",
            "pageSize": "MaxResults",
            "items": "InstanceSummaries"
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest": {
    "type": "structure",
    "members": {
        "MaxResults": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
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"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse": {
"type": "structure",
"members": {
"InstanceSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list instances operation. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},

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            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the user-based subscription products available from an identity
provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/ListProductSubscriptions"
            },
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "ProductUserSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest": {
        "type": "structure",
        "members": {
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name
 of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
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"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {

"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse": {
"type": "structure",
"members": {
"ProductUserSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list product subscriptions operation. "
}
},

"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target":
"com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists user associations for an identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/ListUserAssociations"
},
"smithy.api#paginated":
{
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "InstanceUserSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest": {
"type": "structure",
"members": {
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based
subscriptions. ",

"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse": {
"type": "structure",
"members": {
"InstanceUserSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list user association operation. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}

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    }
  },
  "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary": {
    "type": "structure",
    "members": {

    "Username": {
        "target": "smithy.api#String",
        "traits": {
          "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
          "smithy.api#required": {}
        }
      },
      "Product": {
        "target": "smithy.api#String",
        "traits": {
          "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
          "smithy.api#required": {}
        }
      },
      "IdentityProvider": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
        "traits": {
          "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
          "smithy.api#required": {}
        }

},
      "Status": {
        "target": "smithy.api#String",
        "traits": {
          "smithy.api#documentation": "<p>The status of a product for a user.</p>",
          "smithy.api#required": {}
        }
      },
      "StatusMessage": {
        "target": "smithy.api#String",
        "traits": {
          "smithy.api#documentation": "<p>The status message for a product for a user.</p>"
        }
      },
      "Domain": {
        "target": "smithy.api#String",
        "traits": {
          "smithy.api#documentation": "<p>The domain name of the user.</p>"
        }
      },
      "SubscriptionStartDate": {
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"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The
start date of a subscription. "
}
},
"SubscriptionEndDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The end date of a subscription. "
}
}
},
"traits": {
"smithy.api#documentation": " The summary of the user-based subscription products for a user. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{

"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Registers an identity provider for user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/RegisterIdentityProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Settings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings such as the\n subnets to provision VPC endpoints. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary":

{
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the results of an identity provider operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The resource couldn't be found. ",
"smithy.api#error": "client",
"smithy.api#httpError": 404
}
},
"com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
"type": "string",

"traits": {
"smithy.api#length": {
"min": 5,
"max": 200
},
"smithy.api#pattern": "^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request failed because a service quota is exceeded. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#Settings": {
"type": "structure",

"members": {
"Subnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation":
" The subnets defined for the registered identity provider. ",
"smithy.api#length": {
"min": 1
},
"smithy.api#required": {}
}
},
"SecurityGroupId": {
"target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
"traits": {
"smithy.api#documentation": " A security group ID that allows inbound TCP port 1688
communication between resources in\n your VPC and the VPC endpoint for activation servers. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings
such as the\n subnets to provision VPC endpoints, and the security group ID that
is associated with the VPC\n endpoints. The security group should permit inbound TCP port 1688
communication from resources\n in the VPC. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"

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            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Starts a product subscription for a user with the specified identity
provider.</p>\n        <note>\n            <p>Your estimated bill for charges on the number of users and related costs
will take 48\n        hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing status)
in Amazon Web Services Billing.
 For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n        monthly
charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n        </note>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/StartProductSubscription"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                 "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
```

```
            }
          },
          "Domain": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The domain name of the user.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse": {
        "type": "structure",
         "members": {
          "ProductUserSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the start product subscription
operation.</p>",
              "smithy.api#required": {}
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"

    },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
          },
```

```
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Stops a product subscription for a user with the specified identity
provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/StopProductSubscription"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required":
{}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
```

```
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse": {
        "type": "structure",
        "members": {
            "ProductUserSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
                "traits": {
                    "smithy.api#documentation":
 "<p>Metadata that describes the start product subscription operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StringList": {
        "type": "list",
        "member": {
            "target": "smithy.api#String"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#Subnet": {
        "type": "string",
        "traits": {
            "smithy.api#pattern": "subnet-[a-z0-9]{8,17}"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#Subnets": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Subnet"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException": {
        "type": "structure",
        "members": {
            "message": {

             "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request was denied because of request throttling. Retry the
request.</p>",
            "smithy.api#error": "client"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings": {
```

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates additional product configuration settings for the registered identity\n provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/UpdateIdentityProviderSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},

"UpdateSettings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings",
"traits": {
"smithy.api#documentation": " Updates the registered identity providers product related configuration settings. You can\n update any combination of settings in a single operation such as the: \n \n \n Subnets which you want to add to provision VPC endpoints. \n \n \n Subnets which you want to remove the VPC endpoints from. \n \n \n Security group ID which permits traffic to the VPC endpoints. \n \n ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateSettings": {
"type": "structure",
"members": {
"AddSubnets": {

"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " The ID of one or more subnets in which License Manager will create a VPC endpoint for products that\n require connectivity to activation servers. ",
"smithy.api#required": {}
}
},
"RemoveSubnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " The ID of one or more subnets to remove. ",
"smithy.api#required": {}
}
},
"SecurityGroupId": {
"target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
"traits": {
"smithy.api#documentation": " A security group ID

that allows inbound TCP port 1688 communication between resources in\n your VPC and the VPC endpoints for activation servers. "
}
}
},
"traits": {
"smithy.api#documentation": " Updates the registered identity providers product related configuration settings such as\n the subnets to provision VPC endpoints. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ValidationException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " A parameter is not valid. ",
"smithy.api#error": "client"
}
}
}
}
{
"smithy": "2.0",
"metadata": {
"suppressions": [
{
"id": "HttpMethodSemantics",
"namespace": "*"
},
{
"id": "HttpResponseCodeSemantics",
"namespace": "*"
},
{
"id": "PaginatedTrait",
"namespace": "*"
},
{
"id": "HttpHeaderTrait",
"namespace": "*"
},
{
"id": "HttpUriConflict",
"namespace": "*"
},

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        {
          "id": "Service",
          "namespace": "*"
        }
      ]
    },
    "shapes": {
      "com.amazonaws.licensemanager#AWSLicenseManager": {
        "type": "service",
        "version": "2018-08-01",
        "operations": [
          {
            "target": "com.amazonaws.licensemanager#AcceptGrant"
          },

 {
            "target": "com.amazonaws.licensemanager#CheckInLicense"
          },
          {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
          },
          {
            "target": "com.amazonaws.licensemanager#CheckoutLicense"
          },
          {
            "target": "com.amazonaws.licensemanager#CreateGrant"
          },
          {
            "target": "com.amazonaws.licensemanager#CreateGrantVersion"
          },
          {
            "target": "com.amazonaws.licensemanager#CreateLicense"
          },
          {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
          },
          {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
          },
          {
            "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
           },
          {
            "target": "com.amazonaws.licensemanager#CreateLicenseVersion"
          },
          {
            "target": "com.amazonaws.licensemanager#CreateToken"
          },
```

```
    {
      "target": "com.amazonaws.licensemanager#DeleteGrant"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicense"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteToken"
    },
    {
      "target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

  },
    {
      "target": "com.amazonaws.licensemanager#GetAccessToken"
    },
    {
      "target": "com.amazonaws.licensemanager#GetGrant"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicense"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseUsage"
    },
    {
      "target": "com.amazonaws.licensemanager#GetServiceSettings"
    },
    {
      "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#ListDistributedGrants"
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},
{
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConfigurations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
},
{
"target": "com.amazonaws.licensemanager#ListLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
},
{

"target": "com.amazonaws.licensemanager#ListLicenseVersions"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganization"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization"
},
{
"target": "com.amazonaws.licensemanager#ListResourceInventory"
},
{
"target": "com.amazonaws.licensemanager#ListTagsForResource"
},
{
"target": "com.amazonaws.licensemanager#ListTokens"
},
{
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
},
{

"target": "com.amazonaws.licensemanager#RejectGrant"
},
{
"target": "com.amazonaws.licensemanager#TagResource"
},
{
"target": "com.amazonaws.licensemanager#UntagResource"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
},
{
"target": "com.amazonaws.licensemanager#UpdateServiceSettings"
}
],
"traits": {
"aws.api#service": {
"sdkId": "License Manager",
"arnNamespace": "license-manager",
"cloudFormationName": "LicenseManager",
"cloudTrailEventSource": "licensemanager.amazonaws.com",
"endpointPrefix": "license-manager"
},
"aws.auth#sigv4": {
"name": "license-manager"
},
"aws.protocols#awsJson1_1": {},
"smithy.api#documentation": " License Manager makes it easier to manage licenses from software vendors across multiple \n Amazon Web Services accounts and on-premises servers. ",
"smithy.api#title": "AWS License Manager",
"smithy.api#xmlNamespace": {
"uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
},
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},

"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}
},
"rules": [
{
"conditions": [
{
"fn": "isSet",
"argv": [
{
"ref": "Endpoint"
}
]

}
],
"type": "tree",
"rules": [
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseFIPS"
},
true

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                ]
            }
        ],
        "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
        "type": "error"
    },
    {

"conditions": [
            {
                "fn": "booleanEquals",
                "argv": [
                    {
                        "ref": "UseDualStack"
                    },
                    true
                ]
            }
        ],
        "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
        "type": "error"
    },
    {
        "conditions": [],
        "endpoint": {
            "url": {
                "ref": "Endpoint"
             },
            "properties": {},
            "headers": {}
        },
        "type": "endpoint"
    }
  ]
},
{
  "conditions": [
    {
        "fn": "isSet",
        "argv": [
            {
                "ref": "Region"
            }
        ]
    }
  ],
  "type": "tree",
  "rules": [
```

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                    {
                      "conditions": [
                        {
                          "fn": "aws.partition",
                        "argv": [
                          {
                            "ref": "Region"
                          }
                        ],
                        "assign": "PartitionResult"
                        }
                      ],
                      "type": "tree",
                      "rules": [
                        {
                        "conditions": [
                          {
                            "fn": "booleanEquals",
                            "argv": [
                              {
                                "ref":
"UseFIPS"
                              },
                              true
                            ]
                          },
                          {
                            "fn": "booleanEquals",
                            "argv": [
                              {
                                "ref": "UseDualStack"
                              },
                              true
                            ]
                          }
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                           "conditions": [
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                                "argv": [
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                                  {
                                    "fn": "getAttr",
                                    "argv": [
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"ref": "PartitionResult"
},
"supportsFIPS"
]

}
]
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{
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"argv": [
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},

"supportsDualStack"
]
}
]
}
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"properties": {},
"headers": {}

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"error": "FIPS and DualStack are enabled, but this partition does not support one or both",
"type": "error"
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              "argv": [
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                "supportsFIPS"
              ]
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          ]
        }
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      "rules": [

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            "properties": {},
            "headers": {}
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          "type": "endpoint"
        }
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    },
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partition does not support FIPS",
                        "type": "error"
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                        "argv": [
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                        ]
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                                "argv": [
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                                        "fn": "getAttr",
                                        "argv": [
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                                                "ref": "PartitionResult"
                                            },

    "supportsDualStack"
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                            }
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                "headers": {}

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                "type": "endpoint"
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        "type": "error"
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        "properties": {},
        "headers": {}
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    "type": "endpoint"
}
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    "type": "error"
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                }
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            "params": {
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                "UseFIPS": false,
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          "url": "https://license-manager.ap-east-1.amazonaws.com"
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      "params": {
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        "UseFIPS": false,
        "UseDualStack": false
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        }
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        "UseDualStack": false
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      "expect": {
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          "url": "https://license-manager.ap-northeast-2.amazonaws.com"
        }
      },
      "params": {
        "Region": "ap-northeast-2",
        "UseFIPS": false,
        "UseDualStack": false
      }
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      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-northeast-3.amazonaws.com"
        }
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                "UseFIPS": false,
                "UseDualStack": false
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            "documentation": "For region ap-south-1 with FIPS disabled and DualStack disabled",
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                "endpoint": {
                    "url": "https://license-manager.ap-south-1.amazonaws.com"
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            "params": {
                "Region": "ap-south-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
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            "documentation": "For region ap-southeast-1 with FIPS disabled and DualStack disabled",
            "expect": {
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            "params": {
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                "UseFIPS": false,
                "UseDualStack": false
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            "documentation": "For region ap-southeast-2 with FIPS disabled and DualStack disabled",
            "expect": {
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                    "url": "https://license-manager.ap-southeast-2.amazonaws.com"
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            "params": {
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                "UseFIPS": false,
                "UseDualStack": false
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"documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-southeast-3.amazonaws.com"
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"params": {
"Region": "ap-southeast-3",
"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region ca-central-1 with FIPS disabled and DualStack disabled",
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"params": {
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"UseFIPS": false,
"UseDualStack": false
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"params": {
"Region": "eu-central-1",
"UseFIPS": false,
"UseDualStack": false
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disabled and DualStack disabled",
"expect": {
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}

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            },
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              "UseDualStack": false
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            "documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
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            "params": {
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              "UseDualStack": false
            }
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              "UseDualStack": false
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            "expect": {

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            "params": {
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            "UseFIPS": false,

"UseDualStack": false
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          "params": {
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            "UseFIPS": false,
            "UseDualStack": false
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            "UseFIPS": false,
            "UseDualStack": false
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          "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
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          "params": {
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"UseDualStack": false
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"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false
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"documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",
"expect": {
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"url": "https://license-manager.us-east-2.amazonaws.com"
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},
"params": {
"Region": "us-east-2",
"UseFIPS": false,
"UseDualStack": false
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}
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"params": {
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"UseFIPS": true,
"UseDualStack": false
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us-west-1 with FIPS disabled and DualStack disabled",
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"params": {
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"UseDualStack": false
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"UseDualStack": false
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"url": "https://license-manager-fips.us-east-1.api.aws"
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"params": {
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"UseFIPS": true,

"UseDualStack": true
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"Region": "us-east-1",
"UseFIPS": false,
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"UseFIPS": false,
"UseDualStack": false
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"params": {
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"params": {
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"UseDualStack": true
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"UseDualStack": false
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"url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
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"UseFIPS": true,
"UseDualStack": false
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"params": {
"Region": "us-gov-west-1",
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"UseDualStack": false
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"For region us-gov-west-1 with FIPS enabled and DualStack disabled",
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"url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
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"UseDualStack": false

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            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
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                }
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": true,
                "UseDualStack": false
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            "expect": {
                "error": "DualStack is enabled
but this partition does not support DualStack"
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                "Region": "us-iso-east-1",
                "UseFIPS": false,
                "UseDualStack": true
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"UseDualStack": false
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}
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"params": {
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"UseDualStack": false
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"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
}
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"expect": {
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"url": "https://example.com"
}
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"params": {
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"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
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"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
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"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,

"UseDualStack": false,
"Endpoint": "https://example.com"
}
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"expect": {
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"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
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"expect": {
"error":
"Invalid Configuration: Dualstack and custom endpoint are not supported"
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"params": {
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"UseFIPS": false,
"UseDualStack": true,
"Endpoint": "https://example.com"
}
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"expect": {
"error": "Invalid Configuration: Missing Region"
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"version": "1.0"
}
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"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#AcceptGrantRequest"

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"output": {
"target": "com.amazonaws.licensemanager#AcceptGrantResponse"
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"target": "com.amazonaws.licensemanager#AccessDeniedException"
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"target": "com.amazonaws.licensemanager#AuthorizationException"
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"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
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"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
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"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"

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"com.amazonaws.licensemanager#AcceptGrantRequest": {

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              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
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        "type": "structure",
        "members": {
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            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Grant
ARN.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": "<p>Grant status.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Grant version.</p>"
            }
          }
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        "traits": {
          "smithy.api#output": {}
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        "members": {
          "Message": {
            "target": "com.amazonaws.licensemanager#Message"
          }
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"code": "ServiceAccessDenied",
"httpResponseCode": 401
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"smithy.api#error": "client",
"smithy.api#httpError": 401
}
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"com.amazonaws.licensemanager#ActivationOverrideBehavior": {
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"members": {
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"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DISTRIBUTED_GRANTS_ONLY"
}
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"ALL_GRANTS_PERMITTED_BY_ISSUER": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ALL_GRANTS_PERMITTED_BY_ISSUER"
}
}
}
},
"com.amazonaws.licensemanager#AllowedOperation": {

"type": "enum",
"members": {
"CREATE_GRANT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CreateGrant"
}
},
"CHECKOUT_LICENSE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CheckoutLicense"
}
},
"CHECKOUT_BORROW_LICENSE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CheckoutBorrowLicense"

```
            }
          },
          "CHECK_IN_LICENSE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "CheckInLicense"
            }
          },
          "EXTEND_CONSUMPTION_LICENSE":
{
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "ExtendConsumptionLicense"
            }
          },
          "LIST_PURCHASED_LICENSES": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "ListPurchasedLicenses"
            }
          },
          "CREATE_TOKEN": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "CreateToken"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#AllowedOperationList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#AllowedOperation"
        },
        "traits": {
          "smithy.api#length": {
            "min": 1,
            "max":
7
          }
        }
      },
      "com.amazonaws.licensemanager#Arn": {
        "type": "string",
        "traits": {
          "smithy.api#length": {
            "min": 0,
            "max": 2048
```

```
            },
            "smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-
z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
        }
    },
    "com.amazonaws.licensemanager#ArnList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Arn"
        }
    },
    "com.amazonaws.licensemanager#AuthorizationException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError":
 {
                "code": "AuthorizationFailure",
                "httpResponseCode": 403
            },
            "smithy.api#documentation": "<p>The Amazon Web Services user account does not have permission to
perform the action. Check the IAM\n        policy associated with this account.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 403
        }
    },
    "com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
        "type": "structure",
        "members": {
            "LastRunTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time that automated discovery last ran.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes automated discovery.</p>"
        }
    },

  "com.amazonaws.licensemanager#Boolean": {
        "type": "boolean",
        "traits": {
```

```
            "smithy.api#default": false
        }
    },
    "com.amazonaws.licensemanager#BorrowConfiguration": {
        "type": "structure",
        "members": {
            "AllowEarlyCheckIn": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether early check-ins are allowed.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxTimeToLiveInMinutes": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum time for the borrow configuration, in minutes.</p>",
                    "smithy.api#required": {}
                }
            }

},
        "traits": {
            "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#BoxBoolean": {
        "type": "boolean"
    },
    "com.amazonaws.licensemanager#BoxInteger": {
        "type": "integer"
    },
    "com.amazonaws.licensemanager#BoxLong": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#CheckInLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
```

"target": "com.amazonaws.licensemanager#AuthorizationException"

},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks in the specified license. Check in a license when it is no longer in use. "
}
},
"com.amazonaws.licensemanager#CheckInLicenseRequest":
{
"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
}
},
"traits": {
"smithy.api#input": {}
}

```
    },
    "com.amazonaws.licensemanager#CheckInLicenseResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicense":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {
                "target":
"com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
        "type": "structure",
        "members":
 {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The license must
use the borrow consumption configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements. Partial checkouts are not supported.</p>",
                    "smithy.api#required": {}
                }
            },
            "DigitalSignatureMethod": {
                "target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
                "traits": {
                    "smithy.api#documentation": "<p>Digital signature method. The possible
 value is JSON Web Signature (JWS) algorithm PS384.\n        For more information, see <a
href=\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital Signature with RSASSA-PSS</a>.</p>",
                    "smithy.api#required": {}
                }
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Node ID.</p>"
                }
            },
            "CheckoutMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about constraints.</p>"
                }
```

```
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation":
"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>"
                }
            },
            "EntitlementsAllowed":
{
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
                }
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Node ID.</p>"
                }
            },
            "SignedToken": {
                "target": "com.amazonaws.licensemanager#SignedToken",
                "traits": {
                    "smithy.api#documentation": "<p>Signed token.</p>"
                }
            },
```

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            "IssuedAt": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license checkout
is issued.</p>"
                }
            },
            "Expiration": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
                }
            },
            "CheckoutMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about constraints.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
```

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            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target":
 "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license.</p>\n        <note>\n            <p>If the
account that created the license is the same that is performing the check out, you must\n            specify the account
as the beneficiary.</p>\n        </note>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutLicenseRequest": {
        "type": "structure",
        "members": {
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product
 SKU.</p>",
                    "smithy.api#required": {}
                }
            },
            "CheckoutType": {
                "target": "com.amazonaws.licensemanager#CheckoutType",
                "traits": {
                    "smithy.api#documentation": "<p>Checkout type.</p>",
                    "smithy.api#required": {}
                }
            },
            "KeyFingerprint": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Key fingerprint identifying the license.</p>",
                    "smithy.api#required": {}
                }
            },
```

"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " License entitlements. ",

"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
"type": "structure",
"members": {
"CheckoutType": {
"target": "com.amazonaws.licensemanager#CheckoutType",
"traits": {
"smithy.api#documentation": " Checkout type. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}

```
            },
            "EntitlementsAllowed": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
                }
            },
             "SignedToken": {
                "target": "com.amazonaws.licensemanager#SignedToken",
                "traits": {
                    "smithy.api#documentation": "<p>Signed token.</p>"
                }
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Node ID.</p>"
                }
            },
            "IssuedAt": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
                }
            },
            "Expiration": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and
time at which the license checkout expires.</p>"
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the checkout license.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutType": {
        "type": "enum",
        "members": {
            "PROVISIONAL": {
                "target": "smithy.api#Unit",
```

"traits": {
"smithy.api#enumValue": "PROVISIONAL"
}
},
"PERPETUAL": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PERPETUAL"
}
}
}
},
"com.amazonaws.licensemanager#ClientRequestToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 36
}
}
},
"com.amazonaws.licensemanager#ClientToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 2048
},
"smithy.api#pattern": "^\\S+$"
}
},
"com.amazonaws.licensemanager#ConflictException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "ConflictException",
"httpResponseCode":
409
},
"smithy.api#documentation": " There was a conflict processing the request. Try your request again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 409

```
        }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummary": {
        "type": "structure",
        "members": {
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
                }
            },
            "ConsumedLicenses": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
                }
            }
        },

"traits": {
            "smithy.api#documentation": "<p>Details about license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
        }
    },
    "com.amazonaws.licensemanager#ConsumptionConfiguration": {
        "type": "structure",
        "members": {
            "RenewType": {
                "target": "com.amazonaws.licensemanager#RenewType",
                "traits": {
                    "smithy.api#documentation": "<p>Renewal frequency.</p>"
                }
            },
            "ProvisionalConfiguration": {
                "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
                 }
            },
            "BorrowConfiguration": {
                "target": "com.amazonaws.licensemanager#BorrowConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
```

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                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target":
 "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a grant for the specified license. A grant shares the use of
license\n        entitlements with a specific Amazon Web Services account, an organization, or an\n
organizational unit (OU). For more
 information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-
licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantRequest": {
```

"type": "structure",
"members": {
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}

}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Principals": {
"target": "com.amazonaws.licensemanager#PrincipalArnList",
"traits": {
"smithy.api#documentation": " The grant principals. You can specify one of the following as an Amazon Resource Name\n (ARN): \n \n \n An Amazon Web Services account, which includes only the account specified. \n \n \n \n \n An organizational unit (OU), which includes all accounts in the OU. \n \n \n \n
\n An organization, which will include all accounts across your organization. \n \n ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {

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                "smithy.api#documentation": "<p>Allowed operations for the grant.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},

"com.amazonaws.licensemanager#CreateGrantResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateGrantVersion":
{
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified grant. For more information, see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersionRequest": {
        "type": "structure",
        "members": {
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",

    "smithy.api#required": {}
                }
            },
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
```

```
            "smithy.api#documentation": "<p>Grant name.</p>"
          }
        },
        "AllowedOperations": {
          "target": "com.amazonaws.licensemanager#AllowedOperationList",
          "traits": {
            "smithy.api#documentation": "<p>Allowed operations for the grant.</p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#GrantStatus",
           "traits": {
            "smithy.api#documentation": "<p>Grant status.</p>"
          }
        },
        "StatusReason": {
          "target": "com.amazonaws.licensemanager#StatusReasonMessage",
          "traits": {
            "smithy.api#documentation": "<p>Grant status reason.</p>"
          }
        },
        "SourceVersion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Current version of the grant.</p>"
          }
        },
        "Options": {
          "target": "com.amazonaws.licensemanager#Options",
          "traits": {
            "smithy.api#documentation": "<p>The options specified for the grant.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#CreateGrantVersionResponse": {
      "type": "structure",
      "members": {
        "GrantArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Grant ARN.</p>"
          }
        },
        "Status": {
```

```
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>New version of the grant.</p>"
            }
        }
    },
    "traits":
{
        "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#CreateLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
         },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
```

"traits": {
"smithy.api#documentation": " Creates a license. "
}
},
"com.amazonaws.licensemanager#CreateLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Creates a license configuration. \n A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), license affinity to host (how long a \n license must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. ",

"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension used to track the license inventory. ",
"smithy.api#required": {}
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether hard or soft license enforcement is used. Exceeding a hard limit\n blocks the launch of new instances. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules \n vary by dimension, as follows. \n \n \n \n <code>Cores</code> dimension: <code>allowedTenancy</code> |\n <code>licenseAffinityToHost</code> |\n <code>maximumCores</code> | <code>minimumCores</code>\n \n \n \n \n <code>Instances</code> dimension: <code>allowedTenancy</code> | \n <code>maximumCores</code> | <code>minimumCores</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code> |\n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n \n <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n <code>licenseAffinityToHost</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code>\n \n \n \n \n <code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n <code>honorVcpuOptimization</code> | \n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n The unit for

<code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n <code>True</code> and <code>False</code>. "
}
},

"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the license configuration. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
"type": "operation",

"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a new license conversion task. "
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {

"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource you are converting the license type for. ",
"smithy.api#required": {}
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information that identifies the license type you are converting from. \n\n For the structure of the source license, see Convert a license type using the CLI in

the License Manager User Guide. ",
"smithy.api#required": {}
}
},
"DestinationLicenseContext":
{
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information that identifies the license type you are converting to. For the structure of the destination license, see Convert a license type using the CLI in the License Manager User Guide. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",

"traits": {
"smithy.api#documentation": " The ID of the created license type conversion task. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a report generator. "
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"ReportGeneratorName":
{
"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports to generate. The following report types an be generated: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}

}
},

"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " Defines the type of license configuration the report generator tracks. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " The Amazon Resource Name (ARN) of the new report generator. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseRequest": {
"type": "structure",
"members": {
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. ",
"smithy.api#required": {}
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. ",
"smithy.api#required": {}
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. ",
"smithy.api#required": {}
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#Issuer",
"traits": {
"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region for the license. ",
"smithy.api#required": {}

}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
}
},

```
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseResponse": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
            }
        },
        "Version": {
             "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseVersion": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target":
"com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product name.</p>",
                    "smithy.api#required": {}
                }
            },
            "Issuer": {
                "target": "com.amazonaws.licensemanager#Issuer",
```

"traits":
{
"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the license. ",
"smithy.api#required": {}
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},

"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. ",

"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. "
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New version of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
}
},
"traits": {
"smithy.api#output":

{}
}
},
"com.amazonaws.licensemanager#CreateToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},

{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a long-lived token. \n A refresh token is a JWT token used to get an access token. With an access token,\n you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n call License Manager to manage the specified license. "
}
},
"com.amazonaws.licensemanager#CreateTokenRequest": {
"type": "structure",
"members": {
"LicenseArn": {

"target": "com.amazonaws.licensemanager#Arn",
"traits":
{
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n JWT token. ",
"smithy.api#required": {}
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n License Manager does not check whether the roles are in use. "
}
},
"ExpirationInDays": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Token expiration, in days, counted from token creation. The default is 365 days. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller to be included in the JWT token. The data is mapped\n to the amr claim of the JWT token. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Idempotency token, valid for 10 minutes. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateTokenResponse": {
"type": "structure",
"members": {
"TokenId": {
"target": "com.amazonaws.licensemanager#String",

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        "traits": {
            "smithy.api#documentation": "<p>Token ID.</p>"
          }
        },
        "TokenType": {
          "target": "com.amazonaws.licensemanager#TokenType",
          "traits": {
            "smithy.api#documentation": "<p>Token type.</p>"
          }
        },
        "Token": {
          "target": "com.amazonaws.licensemanager#TokenString",
          "traits": {
            "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#DateTime": {
      "type": "timestamp"
    },
    "com.amazonaws.licensemanager#DatetimeRange": {
      "type": "structure",
      "members": {
        "Begin": {
          "target": "com.amazonaws.licensemanager#ISO8601DateTime",
          "traits": {
            "smithy.api#documentation": "<p>Start of the time range.</p>",
            "smithy.api#required": {}
          }
        },
        "End": {
          "target": "com.amazonaws.licensemanager#ISO8601DateTime",
          "traits": {
            "smithy.api#documentation": "<p>End of the time range.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC format.</p>"
      }
    },
    "com.amazonaws.licensemanager#DeleteGrant": {
      "type": "operation",
      "input": {
```

"target": "com.amazonaws.licensemanager#DeleteGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes
the specified grant. "
}
},
"com.amazonaws.licensemanager#DeleteGrantRequest": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " The Status reason for the delete request. "
}

```
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the
grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
"<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
```

```
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"

},
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#RedirectException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Deletes the specified license.</p>"
        }
      },
      "com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
        },

      "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
```

```
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified license configuration.</p>\n        <p>You cannot
delete a license configuration that is in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
        "type": "structure",
        "members":
{
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
         },
        "errors": [
            {
```

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified report generator. \n This action deletes the report generator, which stops it from generating future reports.\n The action cannot be reversed. It has no effect on the previous reports from this generator. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to be deleted. ",
"smithy.api#required": {}
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {

```
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the license.</p>",
                    "smithy.api#required":
{}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseResponse": {
        "type": "structure",
        "members": {
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
                "traits": {
                    "smithy.api#documentation": "<p>License status.</p>"
                }
            },
            "DeletionDate": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date when the license is deleted.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
```

```
    },
    "com.amazonaws.licensemanager#DeleteToken": {
      "type": "operation",
       "input": {
        "target": "com.amazonaws.licensemanager#DeleteTokenRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#DeleteTokenResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },

    {
          "target": "com.amazonaws.licensemanager#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
      }
    },
    "com.amazonaws.licensemanager#DeleteTokenRequest": {
      "type": "structure",
      "members": {
        "TokenId": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token ID.</p>",
            "smithy.api#required": {}
          }
        }
```

```
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteTokenResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}

      }
    },
    "com.amazonaws.licensemanager#DigitalSignatureMethod": {
        "type": "enum",
        "members": {
            "JWT_PS384": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "JWT_PS384"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#Entitlement": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement name.</p>",
                    "smithy.api#required": {}
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement resource. Use only
if the unit is None.</p>"
                }
            },
            "MaxCount": {
                "target": "com.amazonaws.licensemanager#Long",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
                }
            },
            "Overage": {
```

"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether overages are allowed. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementUnit",
"traits": {
"smithy.api#documentation": " Entitlement unit. ",
"smithy.api#required": {}
}
},
"AllowCheckIn": {
"target":
"com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether check-ins are allowed. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a resource entitled for use with a license. "
}
},
"com.amazonaws.licensemanager#EntitlementData": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement data name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement
data value. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementDataUnit",
"traits": {
"smithy.api#documentation": " Entitlement data unit. ",
"smithy.api#required": {}
}
}

```
        },
        "traits": {
            "smithy.api#documentation": "<p>Data associated with an entitlement resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementDataList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#EntitlementData"
        }
    },
    "com.amazonaws.licensemanager#EntitlementDataUnit": {
        "type": "enum",
        "members": {
            "COUNT": {
                "target": "smithy.api#Unit",
                "traits": {

"smithy.api#enumValue": "Count"
                }
            },
            "NONE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "None"
                }
            },
            "SECONDS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Seconds"
                }
            },
            "MICROSECONDS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Microseconds"
                }
            },
            "MILLISECONDS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Milliseconds"
                }
            },
            "BYTES": {
                "target": "smithy.api#Unit",
```

```
            "traits": {
                "smithy.api#enumValue": "Bytes"
            }
        },
        "KILOBYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobytes"
            }
        },
        "MEGABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabytes"
            }
        },
        "GIGABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Gigabytes"
            }
        },
        "TERABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabytes"
            }
        },
        "BITS":
{
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bits"
            }
        },
        "KILOBITS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobits"
            }
        },
        "MEGABITS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabits"
            }
        },
        "GIGABITS": {
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"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits"
}
},
"TERABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits"

}
},
"PERCENT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Percent"
}
},
"BYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes/Second"
}
},
"KILOBYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes/Second"
}
},
"MEGABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes/Second"
}
},
"GIGABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes/Second"
}
},
"TERABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabytes/Second"
}
},

"BITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits/Second"
}
},
"KILOBITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobits/Second"
}
},
"MEGABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue":
"Megabits/Second"
}
},
"GIGABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits/Second"
}
},
"TERABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits/Second"
}
},
"COUNT_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Count/Second"
}
}
}
},
"com.amazonaws.licensemanager#EntitlementList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Entitlement"
}
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException":
{
"type": "structure",

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        "members": {
          "Message": {
            "target": "com.amazonaws.licensemanager#Message"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The entitlement is not allowed.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 400
        }
      },
      "com.amazonaws.licensemanager#EntitlementUnit": {
        "type": "enum",
        "members": {
          "COUNT": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Count"
            }
          },
          "NONE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "None"
            }
          },
          "SECONDS":
{
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Seconds"
            }
          },
          "MICROSECONDS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Microseconds"
            }
          },
          "MILLISECONDS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Milliseconds"
            }
          },
          "BYTES": {
            "target": "smithy.api#Unit",
            "traits": {
```

"smithy.api#enumValue": "Bytes"
}
},
"KILOBYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes"
}
},
"MEGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes"
}
},
"GIGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes"
}
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"TERABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabytes"
}
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"BITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits"
}
},
"KILOBITS": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Kilobits"
}
},
"MEGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits"
}
},
"GIGABITS": {
"target": "smithy.api#Unit",

"traits": {
"smithy.api#enumValue": "Gigabits"
}
},
"TERABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits"
}
},
"PERCENT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Percent"
}
},
"BYTES_PER_SECOND": {
"target":
"smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes/Second"
}
},
"KILOBYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes/Second"
}
},
"MEGABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes/Second"
}
},
"GIGABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes/Second"
}
},
"TERABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Terabytes/Second"
}
},

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        "BITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bits/Second"
            }
        },
        "KILOBITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobits/Second"
            }
        },
        "MEGABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabits/Second"
            }
        },
        "GIGABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Gigabits/Second"
            }
        },

    "TERABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabits/Second"
            }
        },
        "COUNT_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Count/Second"
            }
        }
    }
},
"com.amazonaws.licensemanager#EntitlementUsage": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage name.</p>",
                "smithy.api#required": {}
            }
```

```
            },
            "ConsumedValue": {
                "target": "com.amazonaws.licensemanager#String",

           "traits": {
                    "smithy.api#documentation": "<p>Resource usage consumed.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxCount": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
                }
            },
            "Unit": {
                "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementUsageList":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#EntitlementUsage"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumption": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",
                    "smithy.api#required": {}

      }
            },
            "DryRun": {
                "target": "com.amazonaws.licensemanager#Boolean",
                "traits": {
                    "smithy.api#default": false,
                    "smithy.api#documentation": "<p>Checks whether you have the required permissions for the action,
without actually making the request. Provides an error response if you do not have the required permissions.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
        "type": "structure",
        "members": {
```

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            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>"
                }
            },

            "Expiration": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license consumption expires.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#FailedDependencyException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            },
            "ErrorCode": {
                "target": "com.amazonaws.licensemanager#String"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "FailedDependency",
                "httpResponseCode": 424
            },
            "smithy.api#documentation":
"<p>A dependency required to run the API is missing.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 424
        }
    },
    "com.amazonaws.licensemanager#Filter": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#FilterName",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the filter. Filter names are case-sensitive.</p>"
                }
            },
```

"Values": {
"target": "com.amazonaws.licensemanager#FilterValues",
"traits": {
"smithy.api#documentation": " The value of the filter, which is case-sensitive. You can only specify one value for the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter name and value pair that is used to return more specific results from a\n describe operation. Filters can be used to match a set of resources by specific criteria,\n such as tags, attributes, or IDs. "
}
},
"com.amazonaws.licensemanager#FilterLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "FilterLimitExceeded",
"httpResponseCode": 400
},
"smithy.api#documentation": " The request uses too many filters or too many filter values. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Filter"
}
},
"com.amazonaws.licensemanager#FilterName": {
"type": "string"
},
"com.amazonaws.licensemanager#FilterValue": {
"type": "string"
},
"com.amazonaws.licensemanager#FilterValues": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#FilterValue",
"traits": {

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                "smithy.api#xmlName": "item"
            }
        }
    },
    "com.amazonaws.licensemanager#Filters": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Filter",
            "traits": {
                "smithy.api#xmlName": "item"
            }
        }
    },
    "com.amazonaws.licensemanager#GetAccessToken": {
        "type": "operation",
        "input": {
             "target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets a temporary access token to use with
AssumeRoleWithWebIdentity. Access
 tokens\n          are valid for one hour.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenRequest": {
        "type": "structure",
        "members": {
            "Token": {
```

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                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>",
                    "smithy.api#required": {}
                }
            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Token properties to validate against those present in the JWT
token.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenResponse":
 {
        "type": "structure",
        "members": {
            "AccessToken": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Temporary access token.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
```

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    },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
        "Grant": {
            "target": "com.amazonaws.licensemanager#Grant",
            "traits": {
```

"smithy.api#documentation": " Grant details. "
}
}
},
"traits": {

"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"

},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license configuration. "
}
},
"com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
}
},
"traits":
{
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Unique ID for the license configuration. "

```
    }
},
"LicenseConfigurationArn": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
        "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    }
},
"Name": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
        "smithy.api#documentation": "<p>Name of the license configuration.</p>"
     }
},
"Description": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
        "smithy.api#documentation": "<p>Description of the license configuration.</p>"
    }
},
"LicenseCountingType": {
    "target": "com.amazonaws.licensemanager#LicenseCountingType",
    "traits": {
        "smithy.api#documentation": "<p>Dimension for which the licenses are counted.</p>"
    }
},
"LicenseRules": {
    "target": "com.amazonaws.licensemanager#StringList",
    "traits": {
        "smithy.api#documentation": "<p>License rules.</p>"
    }
},
"LicenseCount": {
    "target": "com.amazonaws.licensemanager#BoxLong",

   "traits": {
        "smithy.api#documentation": "<p>Number of available licenses.</p>"
    }
},
"LicenseCountHardLimit": {
    "target": "com.amazonaws.licensemanager#BoxBoolean",
    "traits": {
        "smithy.api#documentation": "<p>Sets the number of available licenses as a hard limit.</p>"
    }
},
"ConsumedLicenses": {
    "target": "com.amazonaws.licensemanager#BoxLong",
    "traits": {
```

"smithy.api#documentation": " Number of licenses assigned to resources. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License configuration status. "
}

},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the owner of the license configuration. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the licenses consumed by resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the managed resources. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags for the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",

"traits": {
"smithy.api#documentation": " When
true, disassociates a resource when software is uninstalled. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTask": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets information about the specified license type conversion task. "
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task to retrieve information
on. ",

"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the resources the license conversion task is associated with. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted to. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
"traits": {
"smithy.api#documentation": " Status of the license type conversion task. "
}

```
            },

  "StartTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time at which the license type conversion task was started .</p>"
                }
            },
            "LicenseConversionTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Amount of time to complete the license type conversion.</p>"
                }
            },
            "EndTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time at which the license type conversion task was
completed.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
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            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets information about the specified report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>",
                    "smithy.api#required":
{}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {
            "ReportGenerator": {
                "target": "com.amazonaws.licensemanager#ReportGenerator",
                "traits": {
                    "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
```

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    },
    "com.amazonaws.licensemanager#GetLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {

"smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseResponse": {
        "type": "structure",
        "members": {
            "License": {
                "target": "com.amazonaws.licensemanager#License",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },

  "com.amazonaws.licensemanager#GetLicenseUsage": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
        },
        "errors": [
            {
```

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the usage of the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseUsageRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseUsageResponse": {
"type": "structure",
"members": {
"LicenseUsage": {
"target":
"com.amazonaws.licensemanager#LicenseUsage",
"traits": {
"smithy.api#documentation": " License usage details. "
}
}

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            },
            "traits": {
                "smithy.api#output": {}
            }
        },
        "com.amazonaws.licensemanager#GetServiceSettings": {
            "type": "operation",
            "input": {
                "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
            },
            "output": {
                "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
            },
            "errors": [
                {
                    "target": "com.amazonaws.licensemanager#AccessDeniedException"
                },
                {
                    "target": "com.amazonaws.licensemanager#AuthorizationException"
                },
                {
                    "target": "com.amazonaws.licensemanager#RateLimitExceededException"
                },
                {
                    "target": "com.amazonaws.licensemanager#ServerInternalException"
                }
            ],
            "traits": {
                "smithy.api#documentation": "<p>Gets the License Manager settings for the current Region.</p>"
            }
        },
        "com.amazonaws.licensemanager#GetServiceSettingsRequest": {
            "type": "structure",
            "members": {},
            "traits": {
                "smithy.api#input": {}
            }
        },
        "com.amazonaws.licensemanager#GetServiceSettingsResponse": {
            "type": "structure",
            "members": {
                "S3BucketArn": {
                    "target": "com.amazonaws.licensemanager#String",
                    "traits": {
                        "smithy.api#documentation": "<p>Regional S3 bucket path for storing reports, license trail event data,
discovery data,\n        and so on.</p>"
```

}
},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " SNS topic configured to receive notifications from License Manager. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {
"smithy.api#documentation": " Indicates whether Organizations is integrated with License Manager for\n cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether cross-account discovery is enabled. "
}

},
"LicenseManagerResourceShareArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource share. The License Manager management account \n provides member accounts with access to this share. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#Grant": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"GrantName": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}
}
},
"ParentArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Parent ARN. ",
"smithy.api#required": {}
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. ",
"smithy.api#required": {}
}
},
"GranteePrincipalArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {

"smithy.api#documentation": " The grantee principal ARN. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"GrantStatus": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},

```
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantedOperations": {
                "target": "com.amazonaws.licensemanager#AllowedOperationList",
                "traits": {
                    "smithy.api#documentation": "<p>Granted operations.</p>",
                    "smithy.api#required": {}
                }
            },
            "Options": {
                "target": "com.amazonaws.licensemanager#Options",
                "traits": {
                    "smithy.api#documentation": "<p>The options specified for the grant.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation":
"<p>Describes a grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#GrantList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Grant"
        }
    },
    "com.amazonaws.licensemanager#GrantStatus": {
        "type": "enum",
        "members": {
            "PENDING_WORKFLOW": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_WORKFLOW"
                }
            },
            "PENDING_ACCEPT": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_ACCEPT"
                }
            },
            "REJECTED": {
```

"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "REJECTED"

}
},
"ACTIVE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ACTIVE"
}
},
"FAILED_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "FAILED_WORKFLOW"
}
},
"DELETED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DELETED"
}
},
"PENDING_DELETE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_DELETE"
}
},
"DISABLED": {
"target": "smithy.api#Unit",
"traits":
{
"smithy.api#enumValue": "DISABLED"
}
},
"WORKFLOW_COMPLETED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "WORKFLOW_COMPLETED"
}
}
}
},
"com.amazonaws.licensemanager#GrantedLicense": {
"type": "structure",
"members": {

"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. "
}

},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. "
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. "
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#IssuerDetails",
"traits": {
"smithy.api#documentation": " Granted license issuer. "
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the granted license. "

}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " Granted license status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the granted license is valid, in

ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Granted license beneficiary. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Granted license metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Creation time of the granted license. "

}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Version of the granted license. "
}
},
"ReceivedMetadata": {
"target": "com.amazonaws.licensemanager#ReceivedMetadata",
"traits": {
"smithy.api#documentation": " Granted license received metadata. "
}
}
},
"traits": {

"smithy.api#documentation": " Describes a license that is granted to a grantee. "
}
},
"com.amazonaws.licensemanager#GrantedLicenseList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#GrantedLicense"
}
},
"com.amazonaws.licensemanager#ISO8601DateTime":
{
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[0-3]|[0-1][0-9]):[0-5][0-9])+$"
}
},
"com.amazonaws.licensemanager#Integer": {
"type": "integer"
},
"com.amazonaws.licensemanager#InvalidParameterValueException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidParameterValueProvided",
"httpResponseCode": 400
},
"smithy.api#documentation":
" One or more parameter values are not valid. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#InvalidResourceStateException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}

```
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidResourceState",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>License Manager cannot allocate a license to a resource because of its
state. </p>\n        <p>For example, you cannot allocate a license to an instance in the process of shutting\n
down.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },

    "com.amazonaws.licensemanager#InventoryFilter": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the filter.</p>",
                    "smithy.api#required": {}
                }
            },
            "Condition": {
                "target": "com.amazonaws.licensemanager#InventoryFilterCondition",
                "traits": {
                    "smithy.api#documentation": "<p>Condition of the filter.</p>",
                    "smithy.api#required": {}
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Value of the filter.</p>"
                }
            }

    },
        "traits": {
            "smithy.api#documentation": "<p>An inventory filter.</p>"
        }
    },
    "com.amazonaws.licensemanager#InventoryFilterCondition": {
        "type": "enum",
        "members": {
            "EQUALS": {
                "target": "smithy.api#Unit",
```

"traits": {
"smithy.api#enumValue": "EQUALS"
}
},
"NOT_EQUALS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "NOT_EQUALS"
}
},
"BEGINS_WITH": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "BEGINS_WITH"
}
},
"CONTAINS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CONTAINS"
}
}
}
},
"com.amazonaws.licensemanager#InventoryFilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#InventoryFilter"
}
},
"com.amazonaws.licensemanager#Issuer": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. ",
"smithy.api#required": {}
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage
of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
}

```
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about the issuer of a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#IssuerDetails": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Issuer name.</p>"
                }
            },
            "SignKey": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS
key must have a key usage of sign and verify, \n        and support the RSASSA-PSS SHA-256 signing
algorithm.</p>"
                }
            },
            "KeyFingerprint": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Issuer key fingerprint.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details associated with the issuer of a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#License": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "LicenseName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {

            "smithy.api#documentation": "<p>License name.</p>"
                }
```

```
            },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product name.</p>"
                }
            },
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product SKU.</p>"
                }
            },
            "Issuer": {
                "target": "com.amazonaws.licensemanager#IssuerDetails",
                "traits": {
                    "smithy.api#documentation": "<p>License issuer.</p>"
                }
            },
            "HomeRegion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {

            "smithy.api#documentation": "<p>Home Region of the license.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseStatus",
                "traits": {
                    "smithy.api#documentation": "<p>License status.</p>"
                }
            },
            "Validity": {
                "target": "com.amazonaws.licensemanager#DatetimeRange",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>"
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License beneficiary.</p>"
                }
            },
            "Entitlements": {
```

"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " License metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " License
creation time. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
},
"traits": {
"smithy.api#documentation": " Software license that is managed in License Manager. "
}
},
"com.amazonaws.licensemanager#LicenseConfiguration": {
"type": "structure",
"members": {
"LicenseConfigurationId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Unique ID of the license configuration. "
}
},
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "

```
            }
        },
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Name of the license configuration.</p>"
            }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Description of the license configuration.</p>"
            }
        },
        "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
            "traits": {
                "smithy.api#documentation": "<p>Dimension to use to track the license inventory.</p>"
            }
        },
        "LicenseRules": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>License rules.</p>"
            }
        },
        "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
            }
        },
        "LicenseCountHardLimit": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Number of available licenses as a hard limit.</p>"
            }
        },
        "DisassociateWhenNotFound": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
            }
        },
        "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
```

"smithy.api#documentation": " Number of licenses consumed. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the license configuration. "
}
},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the license configuration's owner. "

}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries for licenses consumed by various resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries for managed resources. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {

"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
}
},
"traits": {
"smithy.api#documentation": " A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a host), and the number of licenses purchased and used. "

```
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
        "type": "structure",
        "members": {
            "ResourceArn":
 {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Type of server resource.</p>"
                }
            },
            "ResourceOwnerId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the Amazon Web Services account that owns the resource
consuming licenses.</p>"
                }
            },
            "AssociationTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {

    "smithy.api#documentation": "<p>Time when the license configuration was associated with the resource.</p>"
                }
            },
            "AmiAssociationScope": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-
account</code>.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes an association with a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
```

```
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationStatus": {
        "type": "enum",
        "members":
{
            "AVAILABLE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "AVAILABLE"
                }
            },
            "DISABLED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DISABLED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationUsage": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits":
{
                    "smithy.api#documentation": "<p>Type of resource.</p>"
                }
            },
            "ResourceStatus": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Status of the resource.</p>"
                }
            },
            "ResourceOwnerId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
                }
            },
```

"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was initially associated with the resource. "
}
},

"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about the usage of a resource associated with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
}
},
"com.amazonaws.licensemanager#LicenseConfigurations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfiguration"
}
},
"com.amazonaws.licensemanager#LicenseConversionContext": {

"type": "structure",
"members": {
"UsageOperation": {
"target": "com.amazonaws.licensemanager#UsageOperation",
"traits": {
"smithy.api#documentation": " The Usage operation value that corresponds to the license type you are converting your resource from. For more information about which platforms correspond to which usage operation values see Sample data: usage operation by platform\n \n "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "

```
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTask": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {

     "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the license type conversion task.</p>"
                }
            },
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the resource associated
with the license type\n        conversion task.</p>"
                }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license type this conversion task converted
from.</p>"
                }
            },
            "DestinationLicenseContext": {
                "target":
 "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license type this conversion task converted
to.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
                "traits": {
                    "smithy.api#documentation": "<p>The status of the conversion task.</p>"
                }
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
                }
            },
            "StartTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
```

"traits": {
"smithy.api#documentation":
" The time the conversion task was started at. "
}
},
"LicenseConversionTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the usage operation value of the resource was changed. "
}
},
"EndTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the conversion task was completed. "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTaskId": {
"type": "string",
"traits": {

"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
}
},
"com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
"type": "enum",
"members": {
"IN_PROGRESS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "IN_PROGRESS"
}
},
"SUCCEEDED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "SUCCEEDED"
}

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            },
            "FAILED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "FAILED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTasks":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTask"
        }
    },
    "com.amazonaws.licensemanager#LicenseCountingType": {
        "type": "enum",
        "members": {
            "VCPU": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "vCPU"
                }
            },
            "INSTANCE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Instance"
                }
            },
            "CORE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Core"
                }
            },
            "SOCKET": {
                "target": "smithy.api#Unit",
                 "traits": {
                    "smithy.api#enumValue": "Socket"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#LicenseDeletionStatus": {
        "type": "enum",
        "members": {
```

```
        "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#License"
    }
},
"com.amazonaws.licensemanager#LicenseOperationFailure": {

    "type": "structure",
    "members": {
        "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
        },
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Resource type.</p>"
            }
        },
        "ErrorMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Error message.</p>"
            }
        },
        "FailureTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {

"smithy.api#documentation": "<p>Failure time.</p>"
            }
```

```
            },
            "OperationName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the operation.</p>"
                }
            },
            "ResourceOwnerId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the Amazon Web Services account that owns the
resource.</p>"
                }
            },
            "OperationRequestedBy": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The requester is \"License Manager Automated Discovery\".</p>"
                }
            },
            "MetadataList": {

                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Reserved.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes the failure of a license operation.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseOperationFailureList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseOperationFailure"
        }
    },
    "com.amazonaws.licensemanager#LicenseSpecification": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
```

"smithy.api#required": {}
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Details for associating a license configuration with a resource. "
}
},
"com.amazonaws.licensemanager#LicenseSpecifications": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseSpecification"
}
},
"com.amazonaws.licensemanager#LicenseStatus": {
"type": "enum",
"members": {
"AVAILABLE": {
"target": "smithy.api#Unit",

"traits": {
"smithy.api#enumValue": "AVAILABLE"
}
},
"PENDING_AVAILABLE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_AVAILABLE"
}
},
"DEACTIVATED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DEACTIVATED"
}
},
"SUSPENDED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "SUSPENDED"
}

```
        },
        "EXPIRED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EXPIRED"
            }
        },

     "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseUsage": {
    "type": "structure",
    "members": {
        "EntitlementUsages": {
            "target": "com.amazonaws.licensemanager#EntitlementUsageList",
            "traits": {
                "smithy.api#documentation": "<p>License entitlement usages.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes the entitlement usage associated with a license.</p>"

    }
},
"com.amazonaws.licensemanager#LicenseUsageException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "LicenseUsageFailure",
            "httpResponseCode": 412
```

```
            },
            "smithy.api#documentation": "<p>You do not have enough licenses available to support a new resource
launch.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 412
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
        },
        "output": {

    "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the resource associations for the
 specified license configuration.</p>\n        <p>Resource associations need not consume licenses from a license
configuration. \n        For example, an AMI or a stopped instance might not consume a license (depending on \n
the license rules).</p>"
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results
to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationAssociations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
"traits": {
"smithy.api#documentation": " Information about the associations for the license
configuration. "
}
},
"NextToken": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrants": {
"type": "operation",
"input": {

"target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the grants distributed for the specified license. "
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
"type": "structure",
"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n

```
<li>\n <p>\n <code>GranteePrincipalARN</code>\n </p>\n </li>\n
<li>\n <p>\n <code>ProductSKU</code>\n </p>\n </li>\n <li>\n
<p>\n <code>LicenseIssuerName</code>\n
</p>\n </li>\n </ul>"
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": "<p>Token for the next set of results.</p>"
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",

"traits": {
"smithy.api#documentation": "<p>Distributed grant details.</p>"
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": "<p>Token for the next set of results.</p>"
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
```

```
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
        },
        "errors": [
            {

"target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configuration operations that failed.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
```

```
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse":
{
        "type": "structure",
        "members": {
            "LicenseOperationFailureList": {
                "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
                "traits": {
                    "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurations": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
        },

    "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configurations
 for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
configurations.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next
 set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n                Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n                Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n
<p>\n                <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license
enforcement is used. \n                Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p>\n
    </li>\n            <li>\n                <p>\n                <code>usagelimitExceeded</code> - A Boolean value that
indicates whether the available licenses have been exceeded. \n                Logical operators are
```

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<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n         </ul>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurations": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurations",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",

         "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasks": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
             },
            {
```

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license type conversion tasks for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
"type": "structure",
"members": {
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {

"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " \n Filters to scope the results. Valid filters are <code>ResourceArns</code> and <code>Status</code>.\n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
"type": "structure",
"members": {
"LicenseConversionTasks": {
"target": "com.amazonaws.licensemanager#LicenseConversionTasks",
"traits": {
"smithy.api#documentation": " Information about the license configuration tasks for your account. "
}
},

```
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target":
"com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the report generators for your account.</p>"
```

```
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest":
{
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:
</p>\n        <ul>\n            <li>\n                <p>\n                <code>LicenseConfigurationArn</code>\n
</p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits":
{
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
        "type": "structure",
        "members": {
            "ReportGenerators": {
                "target": "com.amazonaws.licensemanager#ReportGeneratorList",
                "traits": {
                    "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
```

```
            }
            },
            "traits": {
                "smithy.api#output": {}
            }
        },
        "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
            "type": "operation",
            "input": {
                "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
            },
            "output": {
                "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
            },
            "errors": [
                {
                    "target": "com.amazonaws.licensemanager#AccessDeniedException"
                },
                {
                    "target": "com.amazonaws.licensemanager#AuthorizationException"
                },
                {
                    "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
                },
                {
                    "target": "com.amazonaws.licensemanager#RateLimitExceededException"
                 },
                {
                    "target": "com.amazonaws.licensemanager#ServerInternalException"
                }
            ],
            "traits": {
                "smithy.api#documentation": "<p>Describes the license configurations for the specified resource.</p>"
            }
        },
        "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
            "type": "structure",
            "members": {
                "ResourceArn": {
                    "target": "com.amazonaws.licensemanager#String",
                    "traits": {
                        "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a resource that has an
associated license configuration.</p>",
                        "smithy.api#required": {}
                    }
                },
                "MaxResults": {
                    "target": "com.amazonaws.licensemanager#BoxInteger",
```

"traits": {

"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
"type": "structure",
"members": {
"LicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " License configurations associated with a resource. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

```
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all versions of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
        "type": "structure",
        "members": {
            "Licenses": {
```

```
            "target": "com.amazonaws.licensemanager#LicenseList",
            "traits": {
                "smithy.api#documentation": "<p>License details.</p>"
            }
        },

"NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListLicenses": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicensesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicensesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
         },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the licenses for your account.</p>"
    }
```

```
    },
    "com.amazonaws.licensemanager#ListLicensesRequest": {
      "type": "structure",
      "members": {
        "LicenseArns": {
          "target": "com.amazonaws.licensemanager#ArnList",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
          }
        },

     "Filters": {
          "target": "com.amazonaws.licensemanager#FilterList",
          "traits": {
            "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n          <li>\n            <p>\n              <code>Beneficiary</code>\n            </p>\n
      </li>\n          <li>\n            <p>\n              <code>ProductSKU</code>\n            </p>\n          </li>\n
   <li>\n            <p>\n              <code>Fingerprint</code>\n            </p>\n          </li>\n          <li>\n
<p>\n              <code>Status</code>\n            </p>\n          </li>\n        </ul>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token
 for the next set of results.</p>"
          }
        },
        "MaxResults": {
          "target": "com.amazonaws.licensemanager#MaxSize100",
          "traits": {
            "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#ListLicensesResponse": {
      "type": "structure",
      "members": {
        "Licenses": {
          "target": "com.amazonaws.licensemanager#LicenseList",
          "traits": {
            "smithy.api#documentation": "<p>License details.</p>"
          }
        },
```

"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists grants that are received. Received grants are grants created while specifying the\n recipient as this Amazon Web Services account, your organization, or an organizational unit\n (OU) to which this member account belongs. "
}

```
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsForOrganization": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target":
"com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the grants received for all accounts in the organization.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the received license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Filters": {
```

"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n
\n \n \n <code>ParentArn</code>\n \n \n
\n \n <code>GranteePrincipalArn</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Lists the grants the organization has received. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
"type": "structure",

"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n
<code>GranterAccountId</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Received grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists received licenses. "
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganization":
{
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest"

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        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {

    "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the licenses received for all accounts in the organization.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest": {
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n    <ul>\n    <li>\n    <p>\n    <code>Beneficiary</code>\n    </p>\n
    </li>\n    <li>\n    <p>\n    <code>ProductSKU</code>\n
            </p>\n    </li>\n    </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
```

```
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse": {
        "type": "structure",
        "members": {
            "Licenses": {
                "target": "com.amazonaws.licensemanager#GrantedLicenseList",
                 "traits": {
                    "smithy.api#documentation": "<p>Lists the licenses the organization has received.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
        "type": "structure",
        "members": {
            "LicenseArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
                }
            },

             "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n    <ul>\n    <li>\n    <p>\n    <code>ProductSKU</code>\n    </p>\n
```

```
</li>\n <li>\n <p>\n <code>Status</code>\n </p>\n </li>\n
<li>\n <p>\n <code>Fingerprint</code>\n </p>\n </li>\n <li>\n
<p>\n <code>IssuerName</code>\n </p>\n </li>\n <li>\n <p>\n
<code>Beneficiary</code>\n </p>\n </li>\n </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
        "type": "structure",
        "members": {
          "Licenses": {
            "target": "com.amazonaws.licensemanager#GrantedLicenseList",
            "traits": {
              "smithy.api#documentation": "<p>Received license details.</p>"
            }
          },

         "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListResourceInventory": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
```

```
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#FailedDependencyException"
        },
        {
            "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
    }
},
"com.amazonaws.licensemanager#ListResourceInventoryRequest": {
    "type": "structure",
    "members": {
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "Filters": {
            "target": "com.amazonaws.licensemanager#InventoryFilterList",
```

"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n
\n \n \n <code>application_name</code> - The name of the application. \n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n
\n \n \n <code>license_included</code> - The type of license included. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n Possible values are <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n
\n <code>platform</code> - The platform of the resource.\n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n \n \n \n
<code>resource_id</code> - The ID of the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n
<code>tag:<key></code> - The key/value combination of a tag assigned \n to the resource. Logical operators are <code>EQUALS</code> (single account) or\n <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account). \n \n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListResourceInventoryResponse": {
"type": "structure",
"members": {
"ResourceInventoryList": {
"target": "com.amazonaws.licensemanager#ResourceInventoryList",
"traits": {
"smithy.api#documentation": " Information about the resources. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListTagsForResource": {
"type": "operation",

"input": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the tags for the specified license configuration. "
}
},
"com.amazonaws.licensemanager#ListTagsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",

"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListTagsForResourceResponse": {
"type": "structure",
"members": {
"Tags": {

```
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the tags.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListTokens": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTokensRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTokensResponse"
        },
        "errors":
[
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists your tokens.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTokensRequest": {
        "type": "structure",
        "members": {
            "TokenIds": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
```

"smithy.api#documentation": " Token IDs. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filter is supported: \n
\n \n \n <code>LicenseArns</code>\n \n \n
"
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation":
" Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListTokensResponse": {
"type": "structure",
"members": {
"Tokens": {
"target": "com.amazonaws.licensemanager#TokenList",
"traits": {
"smithy.api#documentation": " Received token details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}

```
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
             {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying
license\n        consumption details by resource at a selected point in time. Use this action to audit the\n        current
license consumption for any license inventory and configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
```

"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>resourceArn</code> - The ARN of the license configuration resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>resourceAccount</code> - The ID of the account that owns the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
"type": "structure",
"members": {

"LicenseConfigurationUsageList": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
"traits": {
"smithy.api#documentation": " Information about the license configurations. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}

```
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#Location": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#Long": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#ManagedResourceSummary": {
        "type": "structure",
        "members": {
            "ResourceType":
{
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
                }
            },
            "AssociationCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#ManagedResourceSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
        }
    },
    "com.amazonaws.licensemanager#MaxSize100": {

    "type": "integer",
        "traits": {
            "smithy.api#range": {
                "min": 1,
                "max": 100
            }
        }
    },
```

```
"com.amazonaws.licensemanager#MaxSize3StringList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#String"
    },
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 3
        }
    }
},
"com.amazonaws.licensemanager#Message": {
    "type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The key name.</p>"
            }
        },

"Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The value.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes key/value pairs.</p>"
    }
},
"com.amazonaws.licensemanager#MetadataList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Metadata"
    }
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
```

```
        },
        "traits": {
            "smithy.api#documentation": "<p>There are no entitlements found for this license, or the entitlement maximum count is reached.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#Options": {
        "type": "structure",
        "members": {
            "ActivationOverrideBehavior": {
                "target": "com.amazonaws.licensemanager#ActivationOverrideBehavior",
                "traits": {
                    "smithy.api#documentation": "<p>An activation option for your grant that determines the behavior of activating a grant.\n Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the\n <code>Status</code> parameter.</p>\n <ul>\n <li>\n <p>As a license administrator, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when activating a grant.</p>\n </li>\n <li>\n <p>As a grantor, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee\n account in your organization.</p>\n </li>\n <li>\n <p>As a grantee, if the grantor creating the distributed grant doesnt specify an\n <code>ActivationOverrideBehavior</code>, you can optionally specify one when you\n are activating the grant.</p>\n </li>\n </ul>\n <dl>\n <dt>DISTRIBUTED_GRANTS_ONLY</dt>\n <dd>\n <p>Use this value to activate a grant without replacing any member accounts\n active grants for the same product.</p>\n </dd>\n <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt>\n <dd>\n <p>Use this value to activate a grant and disable other active grants in any\n member accounts
 for the same product. This action will also replace their\n previously activated grants with this activated grant.</p>\n </dd>\n </dl>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The options you can specify when you create a new version of a grant, such as activation\n override behavior. For more information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#OrganizationConfiguration": {
        "type": "structure",
        "members": {
            "EnableIntegration": {
                "target": "com.amazonaws.licensemanager#Boolean",
                "traits": {
                    "smithy.api#default": false,
                    "smithy.api#documentation":
```

" Enables Organizations integration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Configuration information for Organizations. "
}
},
"com.amazonaws.licensemanager#PrincipalArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 1
}
}
},
"com.amazonaws.licensemanager#ProductInformation": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterList": {
"target": "com.amazonaws.licensemanager#ProductInformationFilterList",
"traits": {
"smithy.api#documentation": " A Product information filter consists of a <code>ProductInformationFilterComparator</code> which is a logical operator, a <code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. \n Accepted values for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. \n The following filters and are supported when the resource type \n is <code>SSM_MANAGED</code>: \n \n \n \n <code>Application Name</code> - The name of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Publisher</code> - The publisher of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Version</code> - The version of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform

Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n
\n \n \n <code>Platform Type</code> - The platform type.\n
Logical operator is <code>EQUALS</code>. \n
\n \n \n <code>Tag:key</code> - The key of a tag attached to an
Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is
<code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the
example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you
are not using values for the key.\n \n \n \n \n
<code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from
automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n
\n \n <code>License Included</code> - The type of license included.\n Logical
operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n Possible values are:
<code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-
web</code> | \n <code>windows-server-datacenter</code>. \n \n \n
The following filters and logical operators are supported when the resource type\n is
<code>RDS</code>: \n \n \n \n <code>Engine Edition</code> -
The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible
values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-
se2</code>. \n \n \n \n <code>License Pack</code> - The license
pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data
guard</code> | \n <code>diagnostic pack sqlt</code> | \n
<code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n
\n ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information for a license configuration. "
}
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
"type": "structure",
"members": {
"ProductInformationFilterName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Filter name. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterValue": {
"target": "com.amazonaws.licensemanager#StringList",

"traits": {
"smithy.api#documentation": " Filter value. "
}
},

```
        "ProductInformationFilterComparator": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Logical operator.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes product information filters.</p>"
    }
},
"com.amazonaws.licensemanager#ProductInformationFilterList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformationFilter"
    }
},
"com.amazonaws.licensemanager#ProductInformationList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformation"
     }
},
"com.amazonaws.licensemanager#ProvisionalConfiguration": {
    "type": "structure",
    "members": {
        "MaxTimeToLiveInMinutes": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum time for the provisional configuration, in minutes.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
    }
},
"com.amazonaws.licensemanager#RateLimitExceededException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
```

"aws.protocols#awsQueryError": {
"code": "RateLimitExceeded",
"httpResponseCode": 429
},
"smithy.api#documentation": " Too many requests have been submitted. Try again after a brief wait. ",
"smithy.api#error": "client",
"smithy.api#httpError": 429
}
},
"com.amazonaws.licensemanager#ReceivedMetadata": {
"type": "structure",
"members": {
"ReceivedStatus": {
"target": "com.amazonaws.licensemanager#ReceivedStatus",
"traits": {
"smithy.api#documentation": " Received status. "
}
},
"ReceivedStatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Received status reason. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations. "
}
}
},
"traits": {
"smithy.api#documentation": " Metadata associated with received licenses and grants. "
}
},
"com.amazonaws.licensemanager#ReceivedStatus": {
"type": "enum",
"members": {
"PENDING_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_WORKFLOW"
}
},
"PENDING_ACCEPT": {
"target": "smithy.api#Unit",

```
            "traits": {
                "smithy.api#enumValue":
"PENDING_ACCEPT"
            }
        },
        "REJECTED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "REJECTED"
            }
        },
        "ACTIVE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "ACTIVE"
            }
        },
        "FAILED_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "FAILED_WORKFLOW"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        },
        "DISABLED": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "DISABLED"
            }
        },
        "WORKFLOW_COMPLETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "WORKFLOW_COMPLETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#RedirectException": {
    "type": "structure",
    "members": {
        "Location": {
            "target": "com.amazonaws.licensemanager#Location",
```

```
            "traits": {
                "smithy.api#httpHeader": "Location"
            }
        },
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
         "smithy.api#error": "client",
        "smithy.api#httpError": 308
    }
},
"com.amazonaws.licensemanager#RejectGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#RejectGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#RejectGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target":
"com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
```

```
        }
    },
    "com.amazonaws.licensemanager#RejectGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}

  }
    },
    "com.amazonaws.licensemanager#RejectGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#RenewType":
{
        "type": "enum",
        "members": {
```

"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"WEEKLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Weekly"
}
},
"MONTHLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Monthly"
}
}
}
},
"com.amazonaws.licensemanager#ReportContext": {
"type": "structure",
"members": {
"licenseConfigurationArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration that this generator reports on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details of the license configuration that this generator reports on. "
}
},
"com.amazonaws.licensemanager#ReportFrequency": {
"type": "structure",
"members": {
"value": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Number of times within the frequency period that a report is generated. \n The only supported value is <code>1</code>. "
}
},
"period": {

"target": "com.amazonaws.licensemanager#ReportFrequencyType",

"traits": {
"smithy.api#documentation": " Time period between each report. The period can be daily, weekly, or monthly. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"com.amazonaws.licensemanager#ReportFrequencyType": {
"type": "enum",
"members": {
"DAY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DAY"
}
},
"WEEK": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "WEEK"
}
},
"MONTH": {
"target": "smithy.api#Unit",
"traits":
{
"smithy.api#enumValue": "MONTH"
}
}
}
},
"com.amazonaws.licensemanager#ReportGenerator": {
"type": "structure",
"members": {
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the report generator. "
}
},
"ReportType": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {

"smithy.api#documentation": " Type of reports that are generated. "
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " License configuration type for this generator. "
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. "
}
},
"LastRunStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the last report generation attempt. "
}
},
"LastRunFailureReason": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Failure message for the last report generation attempt. "
}
},
"LastReportGenerationTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the last report was generated at. "
}
},
"ReportCreatorAccount": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Web Services account ID used to create the report generator. "
}
},

"Description": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"S3Location": {
"target": "com.amazonaws.licensemanager#S3Location",
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the report was created. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags associated with the report generator. "
}

}
},
"traits": {
"smithy.api#documentation": " Describe the details of a report generator. "
}
},
"com.amazonaws.licensemanager#ReportGeneratorList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ReportGenerator"
}
},
"com.amazonaws.licensemanager#ReportGeneratorName": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 100
}
}
},
"com.amazonaws.licensemanager#ReportType": {

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        "type": "enum",
        "members": {
          "LICENSE_CONFIGURATION_SUMMARY_REPORT": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "LicenseConfigurationSummaryReport"
            }

      },
          "LICENSE_CONFIGURATION_USAGE_REPORT": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "LicenseConfigurationUsageReport"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ReportTypeList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#ReportType"
        }
      },
      "com.amazonaws.licensemanager#ResourceInventory": {
        "type": "structure",
        "members": {
          "ResourceId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>ID of the resource.</p>"
            }
          },
          "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits":
{
              "smithy.api#documentation": "<p>Type of resource.</p>"
            }
          },
          "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
          },
          "Platform": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

"smithy.api#documentation": " Platform of the resource. "
}
},
"PlatformVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Platform version of the resource in the inventory. "
}
},
"ResourceOwningAccountId":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the account that owns the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about a resource. "
}
},
"com.amazonaws.licensemanager#ResourceInventoryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ResourceInventory"
}
},
"com.amazonaws.licensemanager#ResourceLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "ResourceLimitExceeded",

"httpResponseCode": 400
},
"smithy.api#documentation": " Your resource limits have been exceeded. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#ResourceNotFoundException": {
"type": "structure",
"members": {

```
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "InvalidResource.NotFound",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The resource cannot be found.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceType": {
    "type": "enum",
    "members": {
        "EC2_INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_INSTANCE"
            }
        },
        "EC2_HOST": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_HOST"
            }
        },
        "EC2_AMI": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_AMI"
            }
        },
        "RDS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "RDS"
            }
        },
        "SYSTEMS_MANAGER_MANAGED_INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
            }
        }
    }
```

```
    },
    "com.amazonaws.licensemanager#S3Location": {
      "type": "structure",
      "members": {
        "bucket": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Name of the S3 bucket reports are published to.</p>"
          }
        },
        "keyPrefix": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Prefix of the S3 bucket reports are published to.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
      }
    },
    "com.amazonaws.licensemanager#ServerInternalException": {
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
      "traits": {
        "aws.protocols#awsQueryError": {
          "code": "InternalError",
          "httpResponseCode": 500
        },
        "smithy.api#documentation": "<p>The server experienced an internal error. Try again.</p>",
        "smithy.api#error": "server",
        "smithy.api#httpError": 500
      }
    },
    "com.amazonaws.licensemanager#SignedToken": {
      "type": "string",
      "traits": {
        "smithy.api#length": {
          "min": 4096
        }
      }
    },
    "com.amazonaws.licensemanager#StatusReasonMessage": {
```

```
        "type": "string",
        "traits":
{
            "smithy.api#length": {
                "min": 0,
                "max": 400
            },
            "smithy.api#pattern": "^[\\s\\S]+$"
        }
    },
    "com.amazonaws.licensemanager#String": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#StringList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },
    "com.amazonaws.licensemanager#Tag": {
        "type": "structure",
        "members": {
            "Key": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag key.</p>"
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
"<p>Tag value.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },
    "com.amazonaws.licensemanager#TagList": {
        "type": "list",
```

"member": {
"target": "com.amazonaws.licensemanager#Tag"
}
},
"com.amazonaws.licensemanager#TagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#TagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#TagResourceResponse"
},
"errors": [
{
"target":
"com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Adds the specified tags to the specified license configuration. "
}
},
"com.amazonaws.licensemanager#TagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits":
{
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license
configuration. ",
"smithy.api#required": {}
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",

```
                "traits": {
                    "smithy.api#documentation": "<p>One or more tags.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#TagResourceResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#TokenData": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
            "TokenType": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>.</p>"
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "ExpirationTime": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Token expiration time, in ISO8601-UTC
 format.</p>"
                }
            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
```

"traits": {
"smithy.api#documentation": " Data specified by the caller. "
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the roles included in the token. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token status. The possible values are <code>AVAILABLE</code> and <code>DELETED</code>. "
}
}
},
"traits": {

"smithy.api#documentation": " Describes a token. "
}
},
"com.amazonaws.licensemanager#TokenList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#TokenData"
}
},
"com.amazonaws.licensemanager#TokenString": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 4096
},
"smithy.api#pattern": "^\\S+$"
}
},
"com.amazonaws.licensemanager#TokenType": {
"type": "enum",
"members": {
"REFRESH_TOKEN": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "REFRESH_TOKEN"
}

```
            }
        }
    },
    "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException":
 {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The digital signature method is unsupported. Try your request
again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#UntagResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UntagResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UntagResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Removes the specified tags from the specified license
configuration.</p>"
        }
    },
```

"com.amazonaws.licensemanager#UntagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"TagKeys": {
"target": "com.amazonaws.licensemanager#TagKeyList",
"traits": {
"smithy.api#documentation": " Keys identifying the tags to remove. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UntagResourceResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"

```
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Modifies the attributes of an existing license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseConfigurationStatus": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
                "traits": {
                    "smithy.api#documentation": "<p>New status of the license configuration.</p>"
                }
            },
            "LicenseRules": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {

    "smithy.api#documentation": "<p>New license rule. The only rule that you can add after you create a license\n
    configuration is licenseAffinityToHost.</p>"
                }
            },
            "LicenseCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>New number of licenses managed by the license
configuration.</p>"
                }
            },
            "LicenseCountHardLimit": {
```

"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " New hard limit of the number of available licenses. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New name
of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New description of the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " New product information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is
uninstalled. "
}
}
},
"traits":
{
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"

```
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
             },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates a report generator.</p>\n        <p>After you make changes to a
report generator, it starts generating new reports within 60 minutes of being updated.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest":
 {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to
update.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportGeneratorName": {
```

"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation":
" Type of reports to generate. The following report types are supported: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " The report context. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits":
{
"smithy.api#documentation": " Frequency by which reports are generated. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse":
{
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},

{
"target": "com.amazonaws.licensemanager#InvalidResourceStateException"
},
{
"target": "com.amazonaws.licensemanager#LicenseUsageException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Adds or removes the specified license configurations for the specified Amazon Web Services resource. \n You can update the license specifications of AMIs, instances, and hosts.\n You cannot update the license specifications for launch templates and CloudFormation templates, \n as they send license configurations to the operation that creates the resource. "

```
        }
    },

    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon Web Services
resource.</p>",
                    "smithy.api#required": {}
                }
            },
            "AddLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
                }
            },
            "RemoveLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation":
 "<p>ARNs of the license configurations to remove.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
        },
        "errors": [
```

```
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon S3 bucket where the License
 Manager information is stored.</p>"
                }
            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts.</p>"
                }
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Enables integration with Organizations for cross-account discovery.</p>"
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
```

"smithy.api#documentation": " Activates cross-account discovery. "

}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UsageOperation": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
}
}
},
"com.amazonaws.licensemanager#ValidationException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The provided input is not valid. Try your request again. ",

"smithy.api#error": "client",
"smithy.api#httpError": 400
}
}
}
}

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
```

```
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version
 of the license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus
```

```
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack,
 options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if
 err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "DeleteLicense",
 }
}
```

1.6074 asm 1.2.0

1.6074.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
*    Copyright 2011 JSON-SMART authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
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* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):
* /opt/cola/permits/2308901920_1736189294.966043/0/asm-1-0-2-sources-zip/net/minidev/asm/Accessor.java
* /opt/cola/permits/2308901920_1736189294.966043/0/asm-1-0-2-sources-zip/net/minidev/asm/ASMUtil.java
* /opt/cola/permits/2308901920_1736189294.966043/0/asm-1-0-2-sources-zip/net/minidev/asm/BeansAccess.java
* /opt/cola/permits/2308901920_1736189294.966043/0/asm-1-0-2-sources-zip/net/minidev/asm/DynamicClassLoader.java

1.6075 xml-rpc 0.0.0-20220921171641-a4b6fa1dd06b

1.6075.1 Available under license :

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SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

1.6076 aws-sdk-go-v2-config 1.27.0

1.6076.1 Available under license :

```
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
     - name: Checkout scancode
       uses: actions/checkout@v2
       with:
         repository: nexB/scancode-toolkit
         path: scancode-toolkit
         fetch-depth: 1
```

```
    - name: Set up Python ${{ matrix.python-version }}
      uses: actions/setup-python@v2
      with:
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
ListLicenses
 Initialize stack step
  RegisterServiceMetadata
  legacyEndpointContextSetter
  SetLogger
 Serialize stack step
  setOperationInput
  ResolveEndpoint
  OperationSerializer
 Build stack step
  ClientRequestID
  ComputeContentLength
  UserAgent
  RecursionDetection
 Finalize stack step
  ResolveAuthScheme
  GetIdentity
  ResolveEndpointV2
  disableHTTPS
  ComputePayloadHash
  Retry
  RetryMetricsHeader
  setLegacyContextSigningOptions
  Signing
 Deserialize stack step
  AddRawResponseToMetadata
  ErrorCloseResponseBody
  CloseResponseBody
  ResponseErrorWrapper
  RequestIDRetriever
```

OperationDeserializer
RecordResponseTiming
RequestResponseLogger


```
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
      "type": "integer"
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
      "type": "long"
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
      "type": "structure",
      "members": {
        "Name": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The type of name to filter by.</p>"
          }
        },
        "Values": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
          "traits": {
            "smithy.api#documentation": "<p>One or more values for the name to filter by.</p>"
          }
        },
        "Operator": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
          "traits": {
            "smithy.api#documentation": "<p>An operator for filtering results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>A filter object that is used to return more specific results from a describe
operation.\n      Filters can be used to match a set of resources by specific criteria.</p>"
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
      "type": "operation",
      "input": {
```

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
},
"output": {

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the Linux subscriptions service settings. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/GetServiceSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest":
{
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " Lists the settings defined for Linux subscriptions discovery. The
settings include if\n Organizations integration has been enabled, and
which Regions data will be aggregated from. "
}

```
            },
            "Status": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being
applied.</p>"
                }
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
                "traits": {
                    "smithy.api#documentation": "<p>A message which details the Linux subscriptions service settings
current status.</p>"
                }
            },
            "HomeRegions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>The Region in which License Manager displays
 the aggregated data for Linux\n      subscriptions.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
        "type": "structure",
        "members": {
            "AmiId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The AMI ID used to launch the instance.</p>"
                }
            },
            "InstanceID": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The instance ID of the resource.</p>"
                }
            },
            "InstanceType": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The instance type of the resource.</p>"
                }

        },
            "AccountID": {
                "target": "smithy.api#String",
```

"traits": {
"smithy.api#documentation": " The account ID which owns the instance. "
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of the instance. "
}
},
"Region": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The Region the instance is running in. "
}
},
"UsageOperation": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The usage operation of the instance. For more information, see For more information, see\n Usage\n operation values in the License Manager User Guide. "
}
},
"ProductCode": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",
"traits": {
"smithy.api#documentation": " The product code for the instance. For more information, see Usage\n operation values in the License Manager User Guide . "
}
},
"LastUpdatedTime": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The time in which the last discovery updated the instance details. "
}
},
"SubscriptionName": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the subscription being used by the instance. "
}
}
},
"traits": {

"smithy.api#documentation": " Details discovered information about a running instance using Linux subscriptions. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " An exception occurred with the service. ",
"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
"type": "service",
"version": "2018-05-10",
"operations": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
}
],

"traits": {
"aws.api#service": {
"sdkId": "License Manager Linux Subscriptions",
"arnNamespace": "license-manager-linux-subscriptions",
"cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
},
"aws.auth#sigv4": {
"name": "license-manager-linux-subscriptions"

},
"aws.protocols#restJson1": {},
"smithy.api#cors": {
"additionalAllowedHeaders": [
"*",
"content-type",
"x-amz-content-sha256",
"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",
"x-api-key",
"authorization",
"x-amz-date",

"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"
]
},
"smithy.api#documentation": " With License Manager, you can discover and track your commercial Linux subscriptions on running\n Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager Linux Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {

"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",

"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}
},
"rules": [
{
"conditions": [
{
"fn": "isSet",
"argv": [
{
"ref": "Endpoint"
}
]
}
],
"type": "tree",
"rules": [
{

"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseFIPS"
},
true
]
}
],
"error": "Invalid Configuration: FIPS and custom endpoint are not supported",
"type": "error"
},
{
"conditions": [],
"type": "tree",

```
                "rules": [
                    {

                "conditions": [
                        {
                            "fn": "booleanEquals",
                            "argv": [
                                {
                                    "ref": "UseDualStack"
                                },
                                true
                            ]
                        }
                    ],
                    "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                    "type": "error"
                },
                {
                    "conditions": [],

            "endpoint": {
                        "url": {
                            "ref": "Endpoint"
                        },
                        "properties": {},
                        "headers": {}
                    },
                    "type": "endpoint"
                }
                ]
            }
        ]
    },
    {
        "conditions": [],
        "type": "tree",
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "isSet",

"argv": [
                        {
                            "ref": "Region"
                        }
                    ]
                }
```

```
                    ],
                    "type": "tree",
                    "rules": [
                      {
                        "conditions": [
                          {
                            "fn": "aws.partition",
                            "argv": [
                              {
                                "ref": "Region"
                              }
                            ],

"assign": "PartitionResult"
                          }
                        ],
                        "type": "tree",
                        "rules": [
                          {
                            "conditions": [
                              {
                                "fn": "booleanEquals",
                                "argv": [
                                  {
                                    "ref": "UseFIPS"
                                  },
                                  true
                                ]
                              },

                      {
                                "fn": "booleanEquals",
                                "argv": [
                                  {
                                    "ref": "UseDualStack"
                                  },
                                  true
                                ]
                              }
                            ],
                            "type": "tree",
                            "rules": [
                              {
                                "conditions": [
                                  {

                               "fn": "booleanEquals",
                                    "argv": [
```

```
                                        true,
                                        {
                                            "fn": "getAttr",
                                            "argv": [
                                                {
                                                    "ref": "PartitionResult"
                                                },
                                                "supportsFIPS"
                                            ]

}
                                    ]
                                },
                                {
                                    "fn": "booleanEquals",
                                    "argv": [
                                        true,
                                        {
                                            "fn": "getAttr",
                                            "argv": [
                                                {
                                                    "ref": "PartitionResult"
                                                },

                                     "supportsDualStack"
                                            ]
                                        }
                                    ]
                                }
                            ],
                            "type": "tree",
                            "rules": [
                                {
                                    "conditions": [],
                                    "type": "tree",
                                    "rules": [
                                        {

                        "conditions": [],
                                            "endpoint": {
                                                "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                                "properties": {},
                                                "headers": {}
                                            },
                                            "type": "endpoint"
                                        }
                                    ]
```

```
                    }
                ]

            },
                {
                    "conditions": [],
                    "error": "FIPS and DualStack are enabled, but this partition does not support
one or both",
                    "type": "error"
                }
            ]
        },
        {
            "conditions": [
                {
                    "fn": "booleanEquals",
                    "argv": [
                        {

"ref": "UseFIPS"
                        },
                        true
                    ]
                }
            ],
            "type": "tree",
            "rules": [
                {
                    "conditions": [
                        {
                            "fn": "booleanEquals",
                            "argv": [
                                true,

{
                                "fn": "getAttr",
                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },
                                    "supportsFIPS"
                                ]
                            }
                        ]
                    }
                ],
                    "type": "tree",
```

```
                    "rules": [
                        {
                            "conditions": [],
                            "type": "tree",
                            "rules": [
                                {
                                    "conditions": [],
                                    "endpoint": {
                                        "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                                        "properties": {},
                                        "headers": {}

                                    },
                                    "type": "endpoint"
                                }
                            ]
                        }
                    ]
                },
                {
                    "conditions": [],
                    "error": "FIPS is enabled but this partition does not support FIPS",
                    "type": "error"
                }
            ]

    },
                {
                    "conditions": [
                        {
                            "fn": "booleanEquals",
                            "argv": [
                                {
                                    "ref": "UseDualStack"
                                },
                                true
                            ]
                        }
                    ],
                    "type": "tree",
                    "rules": [
                        {

                     "conditions": [
                        {
                            "fn": "booleanEquals",
                            "argv": [
```

```
                                    true,
                                    {
                                        "fn": "getAttr",
                                        "argv": [
                                            {
                                                "ref": "PartitionResult"
                                            },
                                            "supportsDualStack"
                                        ]
                                    }
                                ]
                            }
                        ],
                        "type": "tree",
                        "rules": [
                            {
                                "conditions": [],
                                "type": "tree",
                                "rules": [
                                    {
                                        "conditions": [],

                                "endpoint": {
                                            "url": "https://license-manager-linux-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                            "properties": {},
                                            "headers": {}
                                        },
                                        "type": "endpoint"
                                    }
                                ]
                            }
                        ]
                    },

        {
                        "conditions": [],
                        "error": "DualStack is enabled but this partition does not support DualStack",
                        "type": "error"
                    }
                ]
            },
            {
                "conditions": [],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [],
```

"endpoint": {
"url":
"https://license-manager-linux-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
}
]
}
]
},
{
"conditions": [],
"error": "Invalid Configuration: Missing Region",
"type": "error"
}
]
}
]
},
"smithy.rules#endpointTests": {
"testCases": [
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {

"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",

```
        "UseFIPS": true,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
         "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "endpoint": {

      "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
        }
      },
      "params": {
        "Region": "cn-north-1",
        "UseFIPS": true,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
```

```
                "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
            }
        },
        "params": {
            "Region": "cn-north-1",
            "UseFIPS": true,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
            }
        },
        "params": {
            "Region": "cn-north-1",
            "UseFIPS": false,
            "UseDualStack": true
        }
    },
    {
        "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint":
{
                "url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
            }
        },
        "params": {
            "Region": "cn-north-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
            }
        },
        "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": true,
            "UseDualStack": true
        }
```

```
            },
            {
              "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.amazonaws.com"
                }
              },
              "params": {
                "Region": "us-gov-east-1",
                "UseFIPS": true,
                "UseDualStack": false
              }
            },
            {
              "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
              "expect": {
                "endpoint":
{
                  "url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
                }
              },
              "params": {
                "Region": "us-gov-east-1",
                "UseFIPS": false,
                "UseDualStack": true
              }
            },
            {
              "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
                }
              },
              "params": {
                "Region": "us-gov-east-1",
                "UseFIPS": false,
                 "UseDualStack": false
              }
            },
            {
              "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
              "expect": {
                "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
              },
              "params": {
                "Region": "us-iso-east-1",
```

"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{

"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {

"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled
and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",

"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
"expect": {

"endpoint": {
"url": "https://example.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",

"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,

"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips disabled and dualstack enabled",
"expect": {
"error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true,

"Endpoint": "https://example.com"
}
},
{
"documentation": "Missing region",
"expect": {
"error": "Invalid Configuration: Missing Region"
}

}
],
"version": "1.0"
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "Enabled",
"value": "Enabled",
"documentation": "Enabled LinuxSubscriptionsDiscovery"
},
{
"name": "Disabled",
"value": "Disabled",
"documentation": "Disabled LinuxSubscriptionsDiscovery"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
"type": "structure",
"members": {
"SourceRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Regions in which to discover data for Linux subscriptions. ",
"smithy.api#required": {}
}
},
"OrganizationIntegration": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
"traits": {
"smithy.api#documentation": " Details if you have enabled resource discovery across your accounts in Organizations. ",

"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Lists the settings defined for discovering Linux subscriptions. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances": {
"type":
"operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the running Amazon EC2 instances that were discovered with
commercial Linux\n subscriptions. ",
"smithy.api#http": {

"code": 200,
"method": "POST",
"uri": "/subscription/ListLinuxSubscriptionInstances"
},
"smithy.api#idempotent": {},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "Instances"
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest": {
"type": "structure",

"members": {
"Filters": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. For example, you can filter by the name of\n <code>AmiID</code> with an optional operator to see subscriptions that match, partially\n match, or don't match a certain Amazon Machine Image (AMI) ID. \n The valid names for this filter are: \n \n \n \n <code>AmiID</code>\n \n \n \n \n <code>InstanceID</code>\n \n \n \n \n <code>AccountID</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n <code>Region</code>\n \n \n \n \n <code>UsageOperation</code>\n \n \n \n \n <code>ProductCode</code>\n \n \n \n \n <code>InstanceType</code>\n \n \n \n The valid Operators for this filter are: \n \n \n \n <code>contains</code>\n \n \n \n \n <code>equals</code>\n \n \n \n \n <code>Notequal</code>\n \n \n "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "

}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. ",
"smithy.api#length": {
"min": 1,
"max": 16384
}
}
}
},
"traits": {
"smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if parameters in request increases."
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
"type": "structure",
"members": {
"Instances": {

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
"traits": {
"smithy.api#documentation":
" An array that contains instance objects. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the Linux subscriptions that have been discovered. If you have linked your\n organization, the returned results will include data aggregated across your accounts in\n Organizations. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/ListLinuxSubscriptions"
},
"smithy.api#idempotent": {},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "Subscriptions"

```
            }

        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify. For example, you can filter by the name of\n
 <code>Subscription</code> with an optional operator to see subscriptions that match,\n      partially match, or don't
match a certain subscription's name.</p>\n         <p>The valid names for this filter are:</p>\n         <ul>\n
<li>\n              <p>\n                  <code>Subscription</code>\n              </p>\n           </li>\n         </ul>\n
<p>The valid Operators for this filter are:</p>\n
         <ul>\n           <li>\n              <p>\n                  <code>contains</code>\n              </p>\n           </li>\n
<li>\n              <p>\n                  <code>equals</code>\n              </p>\n           </li>\n           <li>\n              <p>\n
              <code>Notequal</code>\n              </p>\n           </li>\n         </ul>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>",
                    "smithy.api#length": {

                        "min": 1,
                        "max": 16384
                    }
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
        "type": "structure",
        "members": {
            "Subscriptions": {
```

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
"traits": {
"smithy.api#documentation": " An array that contains subscription objects. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for
the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "EQUAL",
"value": "Equal",
"documentation": "Equal operator"
},
{
"name": "NOT_EQUAL",
"value": "NotEqual",
"documentation": "Not equal operator"
},
{
"name": "CONTAINS",
"value": "Contains",
"documentation": "Contains operator"
}
],
"smithy.api#length": {
"min": 1,
"max": 20
}
}
},

"com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "Enabled",
"value": "Enabled",

"documentation": "Enabled OrganizationIntegration"
},
{
"name": "Disabled",
"value": "Disabled",
"documentation": "Disabled OrganizationIntegration"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
"type": "list",
"member": {
"target": "smithy.api#String"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
"type": "string",
"traits": {
"smithy.api#enum": [

{
"name": "InProgress",
"value": "InProgress",
"documentation": "InProgress status"
},
{
"name": "Completed",
"value": "Completed",
"documentation": "Completed status"
},
{
"name": "Successful",
"value": "Successful",
"documentation": "Successful status"
},
{
"name": "Failed",
"value": "Failed",
"documentation": "Failed status"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
"type": "list",
"member": {
"target": "smithy.api#String",

"traits":
{
"smithy.api#length": {
"min": 1,
"max": 100
}
}
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 100
},
"smithy.api#uniqueItems": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
"type": "map",
"key": {
"target": "smithy.api#String"
},
"value": {
"target": "smithy.api#String"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
"type": "structure",
"members": {
"Name": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the subscription. "

}
},
"Type": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own\n Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the\n Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS. "
}
},
"InstanceCount": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
"traits": {
"smithy.api#documentation": " The total amount of running instances using this subscription. "

```
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>An object which details a discovered Linux
subscription.</p>"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
        "type": "structure",
        "members": {
          "message": {
            "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The request was denied due to request throttling.</p>",
          "smithy.api#error": "client"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
        },

      "output": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
          },
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Updates the service settings for Linux subscriptions.</p>",
```

"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/UpdateServiceSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest":
{
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Describes if the discovery of Linux subscriptions is enabled. ",
"smithy.api#required": {}
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The
settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated
from. ",

"smithy.api#required": {}
}
},
"AllowUpdate": {
"target": "smithy.api#Boolean",
"traits": {
"smithy.api#documentation": " Describes if updates are allowed to the service settings for Linux
subscriptions. If you\n allow updates, you can aggregate Linux subscription data in more than one home
Region. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},

"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation": " A message which details the Linux subscriptions service settings current status. "
}
},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Region in which License Manager displays the aggregated data for Linux\n subscriptions. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The provided input is not valid. Try your request again. ",
"smithy.api#error": "client"
}
}
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary *string

 noSmithyDocumentSerde
}

type
 CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = addClientRequestID(stack); err != nil {
  return err
 }
 if
 err = addComputeContentLength(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = addComputePayloadSHA256(stack); err != nil {
  return err
 }
 if err = addRetry(stack, options); err != nil {
  return err
 }
 if err = addRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = addRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return
 err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckInLicense",
 }
}
CheckoutBorrowLicense
 Initialize stack step
  RegisterServiceMetadata
  legacyEndpointContextSetter
  SetLogger
```

OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
DisassociateLicense
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2

disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
CheckoutLicense
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming

```
  RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
//
// If the account that created the license is the same that is performing the
// check out, you must specify the account as the beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 //
 Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string
```

```
 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the checkout license.
 LicenseArn
 *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string
```

```
 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack,
 options); err != nil {
  return err
 }
 if err = addClientRequestID(stack); err != nil {
  return err
 }
 if err = addComputeContentLength(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = addComputePayloadSHA256(stack); err != nil {
  return err
 }
 if err = addRetry(stack, options); err != nil {
  return err
 }
```

```
 if err = addRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = addRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err
 = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
```

```
  ServiceID:     ServiceID,
  OperationName: "CheckoutLicense",
 }
}
AssociateLicense
 Initialize stack step
  RegisterServiceMetadata
  legacyEndpointContextSetter
  SetLogger
  OperationInputValidation
 Serialize stack step
  setOperationInput
  ResolveEndpoint
  OperationSerializer
 Build stack step
  ClientRequestID
  ComputeContentLength
  UserAgent
  RecursionDetection
 Finalize stack step
  ResolveAuthScheme
  GetIdentity
  ResolveEndpointV2
  disableHTTPS
  ComputePayloadHash
  Retry
  RetryMetricsHeader
  setLegacyContextSigningOptions
  Signing
 Deserialize stack step
  AddRawResponseToMetadata
  ErrorCloseResponseBody
  CloseResponseBody
  ResponseErrorWrapper
  RequestIDRetriever
  OperationDeserializer
  RecordResponseTiming
  RequestResponseLogger
CheckInLicense
 Initialize stack step
  RegisterServiceMetadata
  legacyEndpointContextSetter
  SetLogger
  OperationInputValidation
 Serialize stack step
  setOperationInput
  ResolveEndpoint
  OperationSerializer
```

```
 Build stack step
  ClientRequestID
  ComputeContentLength
  UserAgent
  RecursionDetection
 Finalize stack step
  ResolveAuthScheme
  GetIdentity
  ResolveEndpointV2
  disableHTTPS
  ComputePayloadHash
  Retry
  RetryMetricsHeader
  setLegacyContextSigningOptions
  Signing
 Deserialize stack step
  AddRawResponseToMetadata
  ErrorCloseResponseBody
  CloseResponseBody
  ResponseErrorWrapper
  RequestIDRetriever
  OperationDeserializer
  RecordResponseTiming
  RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
```

```
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //   - ProductSKU
 //
 //   - Status
 //
 //
   - Fingerprint
 //
 //   - IssuerName
 //
 //   - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{},
 middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = addClientRequestID(stack); err != nil {
  return err
 }
 if err = addComputeContentLength(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = addComputePayloadSHA256(stack); err != nil {
  return err
 }
 if err = addRetry(stack, options); err != nil {
  return err
 }
 if err = addRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = addRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
```

```
 }
 if err
 = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:
     ServiceID,
  OperationName: "ListReceivedLicenses",
 }
}
```

AWS SDK for Go

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CreateLicense

Initialize stack step

RegisterServiceMetadata

legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
GetLicense
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme

```
  GetIdentity
  ResolveEndpointV2
  disableHTTPS
  ComputePayloadHash
  Retry
  RetryMetricsHeader
  setLegacyContextSigningOptions
  Signing
 Deserialize stack step
  AddRawResponseToMetadata
  ErrorCloseResponseBody
  CloseResponseBody
  ResponseErrorWrapper
  RequestIDRetriever
  OperationDeserializer
  RecordResponseTiming
  RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 //
 This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
 // borrow configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //
 // This member is required.
 LicenseName *string

 // Product name.
 //
 // This member is required.
 ProductName *string

 // Product SKU.
 //
```

```
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity *types.DatetimeRange

 // Information about
 the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }
```

```
if
err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = addClientRequestID(stack); err != nil {
 return err
}
if err = addComputeContentLength(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addComputePayloadSHA256(stack); err != nil {
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return
err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
```

```
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
```

```
 return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 //
 the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see [RFC 7518 Digital Signature with RSASSA-PSS].
 //
 // [RFC 7518 Digital Signature with RSASSA-PSS]: https://tools.ietf.org/html/rfc7518#section-3.5
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
```

```
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutBorrowLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }
```

```
 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = addClientRequestID(stack); err != nil {
  return err
 }
 if err = addComputeContentLength(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = addComputePayloadSHA256(stack); err != nil {
  return err
 }
 if err = addRetry(stack, options); err != nil {
  return err
 }
 if err = addRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = addRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return
 err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
```

```
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:
       region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
```

```
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version *string

 noSmithyDocumentSerde
}

type
 GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
```

```
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = addClientRequestID(stack); err
!= nil {
 return err
}
if err = addComputeContentLength(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addComputePayloadSHA256(stack); err != nil {
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
```

```
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "GetLicense",
 }
}
DeleteLicense
 Initialize stack step
  RegisterServiceMetadata
  legacyEndpointContextSetter
  SetLogger
  OperationInputValidation
 Serialize stack step
  setOperationInput
  ResolveEndpoint
  OperationSerializer
 Build stack step
  ClientRequestID
  ComputeContentLength
  UserAgent
  RecursionDetection
 Finalize stack step
  ResolveAuthScheme
  GetIdentity
  ResolveEndpointV2
  disableHTTPS
  ComputePayloadHash
  Retry
```

```
  RetryMetricsHeader
  setLegacyContextSigningOptions
  Signing
 Deserialize stack step
  AddRawResponseToMetadata
  ErrorCloseResponseBody
  CloseResponseBody
  ResponseErrorWrapper
  RequestIDRetriever
  OperationDeserializer
  RecordResponseTiming
  RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //   - Beneficiary
```

```
 //
 //   - ProductSKU
 //
 //   - Fingerprint
 //
 //   - Status
 Filters
 []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack,
```

```
options, "ListLicenses"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = addClientRequestID(stack); err != nil {
 return err
}
if err = addComputeContentLength(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addComputePayloadSHA256(stack); err != nil {
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
```

```
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "ListLicenses",
 }
}
```

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ListReceivedLicenses

Initialize stack step

RegisterServiceMetadata

legacyEndpointContextSetter

SetLogger

Serialize stack step

setOperationInput

ResolveEndpoint

OperationSerializer

Build stack step

ClientRequestID

ComputeContentLength

UserAgent

RecursionDetection

Finalize stack step

ResolveAuthScheme

GetIdentity

ResolveEndpointV2

disableHTTPS

ComputePayloadHash

Retry

RetryMetricsHeader

setLegacyContextSigningOptions

Signing

Deserialize stack step

AddRawResponseToMetadata

ErrorCloseResponseBody

CloseResponseBody

ResponseErrorWrapper

RequestIDRetriever

OperationDeserializer

RecordResponseTiming

RequestResponseLogger

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// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 //
```

```
 The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "DisassociateLicense");
 err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = addClientRequestID(stack); err != nil {
  return err
 }
```

```
 if err = addComputeContentLength(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = addComputePayloadSHA256(stack); err != nil {
  return err
 }
 if err = addRetry(stack, options); err != nil {
  return err
 }
 if err = addRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = addRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil
 {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
```

```
 return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. To upgrade, you must use
// ENTERPRISE for the licenseType , and pass in a valid Grafana Labs token for the
// grafanaToken . Upgrading to Grafana Enterprise incurs additional fees. For more
// information, see [Upgrade a workspace to Grafana Enterprise].
//
// [Upgrade a workspace to Grafana Enterprise]: https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-
Grafana-Enterprise.html
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx,
 "AssociateLicense", params, optFns, c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }
```

```
 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // Amazon Managed Grafana workspaces no longer support Grafana Enterprise free
 // trials.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 // A token from Grafana Labs that ties your Amazon Web Services account with a
 // Grafana Labs account. For more information, see [Link your account with Grafana Labs].
 //
 // [Link your account with Grafana Labs]: https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-
Grafana-Enterprise.html#AMG-workspace-register-enterprise
 GrafanaToken *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput
 struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
```

```
err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack,
options); err != nil {
 return err
}
if err = addClientRequestID(stack); err != nil {
 return err
}
if err = addComputeContentLength(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addComputePayloadSHA256(stack); err != nil {
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err
 = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "AssociateLicense",
 }
}
{
   "smithy": "2.0",
   "shapes": {
       "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException": {
           "type": "structure",
           "members": {
               "message": {
                   "target": "smithy.api#String"
               }
           },
```

```
        "traits": {
            "smithy.api#documentation": "<p>You don't have sufficient access to perform this action.</p>",
            "smithy.api#error": "client"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
        "type": "structure",
        "members": {
            "DirectoryId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The directory ID for an Active Directory identity provider.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation":
"<p>Details about an Active Directory identity provider.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUser": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
```

"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Associates the user to an EC2 instance to utilize user-based subscriptions. \n <note>\n Your estimated bill for charges on the number of users and related costs will take 48\n hours to appear for billing periods that haven't closed (marked as Pending billing status) in Amazon Web Services Billing. For more information, see Viewing your\n monthly charges in the Amazon Web Services Billing User Guide. \n </note>",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/AssociateUser"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
},
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " The identity provider of the user. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}

```
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse": {
        "type": "structure",
        "members": {
            "InstanceUserSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
                 "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#BoxInteger": {
        "type": "integer"
    },
    "com.amazonaws.licensemanagerusersubscriptions#ConflictException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request couldn't be completed because it conflicted with the current
state of the\n      resource.</p>",
            "smithy.api#error": "server"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider":
 {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
```

"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deregisters the identity provider from providing user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/DeregisterIdentityProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse": {
"type": "structure",
"members": {

"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#documentation":
" Metadata that describes the results of an identity provider operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUser": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Disassociates the user from an EC2 instance providing user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/DisassociateUser"

```
            },
            "smithy.api#idempotent": {}
        }

    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation":
"<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse": {
        "type": "structure",
        "members": {
            "InstanceUserSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
                    "smithy.api#required": {}
                }
```

```
            }
          }
        },

    "com.amazonaws.licensemanagerusersubscriptions#Filter": {
        "type": "structure",
        "members": {
          "Attribute": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of an attribute to use as a filter.</p>"
            }
          },
          "Operation": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The type of search (For example, eq, geq, leq)</p>"
            }
          },
          "Value": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Value of the filter.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>A filter name and value pair that is used
 to return more specific results from a describe\n      operation. Filters can be used to match a set of resources by
specific criteria, such as tags,\n      attributes, or IDs.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#FilterList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
        "type": "union",
        "members": {
          "ActiveDirectoryIdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
            "traits": {
              "smithy.api#documentation": "<p>An object that details an Active Directory identity provider.</p>"
            }
          }
        },
```

"traits": {
"smithy.api#documentation":
" Details about an identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Settings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
"traits": {
"smithy.api#documentation": " An object that details the registered identity providers product related configuration\n settings such as the subnets to provision VPC endpoints. ",
"smithy.api#required":
{}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of an identity provider. ",
"smithy.api#required": {}
}
},
"FailureMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The failure message associated with an identity provider. "
}
}
},
"traits": {
"smithy.api#documentation":

" Describes an identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceSummary": {
"type": "structure",
"members": {
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of an EC2 instance resource. ",
"smithy.api#required": {}
}
},
"Products": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StringList",
"traits": {
"smithy.api#documentation": " A list of provided user-based subscription products. ",
"smithy.api#required": {}
}
},
"LastStatusCheckDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date of the last status check. "
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for an EC2 instance. "
}

```
    }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes an EC2 instance providing user-based subscriptions.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits":
 {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status of a user associated with an EC2 instance.</p>",
                    "smithy.api#required": {}
                }
            },
            "StatusMessage": {
                "target": "smithy.api#String",
```

```
            "traits": {
                "smithy.api#documentation": "<p>The status message for users of an EC2 instance.</p>"
            }
        },
        "Domain": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The domain name of the user.</p>"
            }
        },
        "AssociationDate": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The date a user was associated with an EC2 instance.</p>"
            }
        },
        "DisassociationDate": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The date a user was disassociated from an EC2 instance.</p>"
            }
        }

    },
        "traits": {
            "smithy.api#documentation": "<p>Describes users of an EC2 instance providing user-based
subscriptions.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InternalServerException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
            "smithy.api#error": "server"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
```

"type": "service",

"version": "2018-05-10",
"operations": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUser"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"

},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
}
],
"traits": {
"aws.api#service": {
"sdkId": "License Manager User Subscriptions",
"arnNamespace": "license-manager-user-subscriptions",
"cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
},
"aws.auth#sigv4": {
"name": "license-manager-user-subscriptions"

},
"aws.protocols#restJson1": {},
"smithy.api#cors": {
"additionalAllowedHeaders": [
"*",
"content-type",
"x-amz-content-sha256",
"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",
"x-api-key",
"authorization",
"x-amz-date",
"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"

]
},
"smithy.api#documentation": " With License Manager, you can create user-based subscriptions to utilize licensed software with\n a per user subscription fee on Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager User Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",

"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}

},
"rules": [
{
"conditions": [
{
"fn": "isSet",
"argv": [
{
"ref": "Endpoint"
}
]
}
],
"type": "tree",
"rules": [
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseFIPS"
},

true
]
}
],
"error": "Invalid Configuration: FIPS and custom endpoint are not supported",
"type": "error"
},
{
"conditions": [
{
"fn": "booleanEquals",

"argv": [
{
"ref": "UseDualStack"
},
true
]
}
],

"error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
"type": "error"
},
{
"conditions": [],
"endpoint": {
"url": {
"ref": "Endpoint"
},
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
},
{
"conditions": [
{
"fn": "isSet",
"argv": [

{
"ref": "Region"
}
]
}
],
"type": "tree",
"rules": [
{
"conditions": [
{
"fn": "aws.partition",
"argv": [
{
"ref": "Region"
}
],

```
                "assign": "PartitionResult"
            }
        ],
        "type": "tree",

    "rules": [
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseFIPS"
                            },
                            true
                        ]
                    },
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseDualStack"

                            },
                            true
                        ]
                    }
                ],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    true,
                                    {
                                        "fn": "getAttr",

"argv": [
                                            {
                                                "ref": "PartitionResult"
                                            },
                                            "supportsFIPS"
                                        ]
                                    }
                                ]
                            },
```

```
                                    {
                                      "fn": "booleanEquals",
                                      "argv": [
                                        true,
                                        {

            "fn": "getAttr",
                                          "argv": [
                                            {
                                              "ref": "PartitionResult"
                                            },
                                            "supportsDualStack"
                                          ]
                                        }
                                      ]
                                    }
                                  ],
                                  "type": "tree",
                                  "rules": [
                                    {

          "conditions": [],
                                      "endpoint": {
                                        "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                        "properties": {},
                                        "headers": {}
                                      },
                                      "type": "endpoint"
                                    }
                                  ]
                                },
                                {
                                  "conditions": [],
                                  "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
                                   "type": "error"
                                }
                              ]
                            },
                            {
                              "conditions": [
                                {
                                  "fn": "booleanEquals",
                                  "argv": [
                                    {
                                      "ref": "UseFIPS"
                                    },
```

```
                    true
                ]
            }
        ],
        "type": "tree",

    "rules": [
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            true,
                            {
                                "fn": "getAttr",
                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },
                                    "supportsFIPS"

                    ]
                            }
                        ]
                    }
                ],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [],
                        "endpoint": {
                            "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                            "properties": {},
                            "headers": {}

            },
                        "type": "endpoint"
                    }
                ]
            },
            {
                "conditions": [],
                "error": "FIPS is enabled but this partition does not support FIPS",
                "type": "error"
            }
        ]
    },
```

```
{
  "conditions": [
    {
      "fn": "booleanEquals",
      "argv": [
        {
          "ref": "UseDualStack"
        },
        true
      ]
    }
  ],
  "type": "tree",
  "rules": [
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv": [
            true,
            {

              "fn": "getAttr",
                "argv": [
                  {
                    "ref": "PartitionResult"
                  },
                  "supportsDualStack"
                ]
            }
          ]
        }
      ],
      "type": "tree",
      "rules": [
        {

          "conditions": [],
          "endpoint": {
            "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
            "properties": {},
            "headers": {}
          },
          "type": "endpoint"
        }
      ]
    },
```

```
                    {
                        "conditions": [],
                        "error": "DualStack is enabled but this partition does
not support DualStack",
                        "type": "error"
                    }
                ]
            },
            {
                "conditions": [],
                "endpoint": {
                    "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
                    "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
            }
        ]
    }
  ]
},
{
  "conditions":
[],
  "error": "Invalid Configuration: Missing Region",
  "type": "error"
}
]
},
"smithy.rules#endpointTests": {
  "testCases": [
    {
      "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": true
      }
    },
    {
      "documentation":
```

"For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
}
},

"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with
FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.cn-north-
1.api.amazonwebservices.com.cn"
}
},

"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
}
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"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
}
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"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1
with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
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"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
}
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"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": true
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"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1
with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
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"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect":
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"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
}
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"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack":
true
}
},
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"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"

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                }
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "error": "FIPS and DualStack are enabled, but
this partition does not support one or both"
            },
            "params": {
                "Region": "us-isob-east-1",
                "UseFIPS": true,
                "UseDualStack": true
            }
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            "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
                }
            },
            "params": {
                "Region": "us-isob-east-1",
                "UseFIPS": true,
                "UseDualStack": false
            }

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        {
            "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
                "error": "DualStack is enabled but this partition does not support DualStack"
            },
            "params": {
                "Region": "us-isob-east-1",
                "UseFIPS": false,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
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"endpoint": {
"url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{

"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,
"Endpoint": "https://example.com"

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            }
        },
        {
            "documentation": "For custom endpoint with fips disabled and dualstack enabled",
            "expect": {
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": true,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "Missing region",
            "expect": {
                "error": "Invalid Configuration: Missing Region"
            }
        }
    ],
    "version": "1.0"
  }
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {
  "type": "operation",
  "input": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
  },
  "output": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
  },
  "errors": [
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the identity providers for user-based subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/ListIdentityProviders"
            },
            "smithy.api#paginated":
{
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "IdentityProviderSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest": {
        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse":
{
        "type": "structure",
        "members": {
            "IdentityProviderSummaries": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList",
                "traits": {
```

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            "smithy.api#documentation": "<p>Metadata that describes the list identity providers operation.</p>",
            "smithy.api#required": {}
          }
        },
        "NextToken": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListInstances": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Lists the EC2 instances providing user-based subscriptions.</p>",
        "smithy.api#http": {
          "code": 200,
          "method": "POST",
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"uri": "/instance/ListInstances"
},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "InstanceSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest": {
"type": "structure",
"members": {
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse": {
"type": "structure",
"members": {
"InstanceSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list instances operation. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "

```
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
             }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the user-based subscription products available from an identity
provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/ListProductSubscriptions"
            },
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "ProductUserSummaries"
```

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            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest": {
        "type": "structure",
        "members": {
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name
 of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
                "traits": {

  "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those that match
 one or\n      more sets of key-value pairs that you specify.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse": {
        "type": "structure",
        "members": {
            "ProductUserSummaries": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList",
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"traits": {
"smithy.api#documentation": " Metadata that describes the list product subscriptions operation. "
}
},

"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists user associations for an identity provider. ",

"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/ListUserAssociations"
},
"smithy.api#paginated":
{
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "InstanceUserSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest": {
"type": "structure",
"members": {
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based
subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity
provider. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those
that match one or\n more sets of key-value pairs that you specify. "
}
},
"NextToken": {
"target": "smithy.api#String",

"traits": {
"smithy.api#documentation": " Token for
the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse": {
"type": "structure",
"members": {
"InstanceUserSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list user association operation. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary": {
"type": "structure",
"members": {

"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider of the user. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}

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    },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status of a product for a user.</p>",
                    "smithy.api#required": {}
                }
            },
            "StatusMessage": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status message for a product for a user.</p>"
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            },
            "SubscriptionStartDate": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The
start date of a subscription.</p>"
                }
            },
            "SubscriptionEndDate": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The end date of a subscription.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The summary of the user-based subscription products for a user.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider": {
        "type": "operation",
        "input": {
```

"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Registers an identity provider for user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/RegisterIdentityProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}

```
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "Settings": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
                "traits": {
                    "smithy.api#documentation": "<p>The registered identity providers product related configuration
settings such as the\n      subnets to provision VPC endpoints.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
        "type": "structure",
        "members": {
            "IdentityProviderSummary":
 {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the results of an identity provider
operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The resource couldn't be found.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 404
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
        "type": "string",
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"traits": {
"smithy.api#length": {
"min": 5,
"max": 200
},
"smithy.api#pattern": "^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request failed because a service quota is exceeded. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#Settings": {
"type": "structure",
"members": {
"Subnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation":
" The subnets defined for the registered identity provider. ",
"smithy.api#length": {
"min": 1
},
"smithy.api#required": {}
}
},
"SecurityGroupId": {
"target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
"traits": {
"smithy.api#documentation": " A security group ID that allows inbound TCP port 1688
communication between resources in\n your VPC and the VPC endpoint for activation servers. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings
such as the\n subnets to provision VPC endpoints, and the security group ID that
is associated with the VPC\n endpoints. The security group should permit inbound TCP port 1688
communication from resources\n in the VPC. "

```
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Starts a product subscription for a user with the specified identity
provider.</p>\n        <note>\n            <p>Your estimated bill for charges on the number of users and related costs
will take 48\n        hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing status)
in Amazon Web Services Billing.
 For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n          monthly
charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n        </note>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/StartProductSubscription"
            }
        }
    },
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"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider of the user. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse": {
"type": "structure",
"members": {
"ProductUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the start product subscription operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
"type": "operation",
"input": {

"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"

},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Stops a product subscription for a user with the specified identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/StopProductSubscription"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}

```
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required":
{}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
        }
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    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse": {
        "type": "structure",
        "members": {
            "ProductUserSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
                "traits": {
                    "smithy.api#documentation":
"<p>Metadata that describes the start product subscription operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StringList": {
        "type": "list",
        "member": {
            "target": "smithy.api#String"
        }
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    "com.amazonaws.licensemanagerusersubscriptions#Subnet": {
        "type": "string",
        "traits": {
            "smithy.api#pattern": "subnet-[a-z0-9]{8,17}"
        }
```

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#Subnets": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Subnet"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException": {
        "type": "structure",
        "members": {
            "message": {

             "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request was denied because of request throttling. Retry the
request.</p>",
            "smithy.api#error": "client"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates additional product configuration settings for the registered
identity\n      provider.</p>",
            "smithy.api#http": {
                "code": 200,
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"method": "POST",
"uri": "/identity-provider/UpdateIdentityProviderSettings"
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"smithy.api#idempotent": {}
}
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"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"UpdateSettings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings",
"traits": {
"smithy.api#documentation": " Updates the registered identity providers product related configuration settings. You can\n update any combination of settings in a single operation such as the: \n \n \n Subnets which you want to add to provision VPC endpoints. \n \n \n Subnets which you want to remove the VPC endpoints from. \n \n \n Security group ID which permits traffic to the VPC endpoints. \n \n ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateSettings": {
"type": "structure",

"members": {
"AddSubnets": {

"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " The ID of one or more subnets in which License Manager will create a VPC endpoint for products that\n require connectivity to activation servers. ",
"smithy.api#required": {}
}
},
"RemoveSubnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " The ID of one or more subnets to remove. ",
"smithy.api#required": {}
}
},
"SecurityGroupId": {
"target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
"traits": {
"smithy.api#documentation": " A security group ID that allows inbound TCP port 1688 communication between resources in\n your VPC and the VPC endpoints for activation servers. "
}
}
},
"traits": {
"smithy.api#documentation": " Updates the registered identity providers product related configuration settings such as\n the subnets to provision VPC endpoints. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ValidationException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " A parameter is not valid. ",
"smithy.api#error": "client"
}
}
}
}
{
"smithy": "2.0",
"metadata": {

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    "suppressions": [
        {
            "id": "HttpMethodSemantics",
            "namespace": "*"
        },
        {
            "id": "HttpResponseCodeSemantics",
            "namespace": "*"
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        {
            "id": "PaginatedTrait",
            "namespace": "*"
        },
        {
            "id": "HttpHeaderTrait",
            "namespace": "*"
        },
        {
            "id": "HttpUriConflict",
            "namespace": "*"
        },
        {
            "id": "Service",
            "namespace": "*"
        }
    ]
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"shapes": {
    "com.amazonaws.licensemanager#AWSLicenseManager": {
        "type": "service",
        "version": "2018-08-01",
        "operations": [
            {
                "target": "com.amazonaws.licensemanager#AcceptGrant"
            },

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                "target": "com.amazonaws.licensemanager#CheckInLicense"
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            {
                "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CheckoutLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateGrant"
            },
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    {
      "target": "com.amazonaws.licensemanager#CreateGrantVersion"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateLicense"
    },
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      "target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateLicenseVersion"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateToken"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteGrant"
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    {
      "target": "com.amazonaws.licensemanager#DeleteLicense"
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      "target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteToken"
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    {
      "target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

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    {
      "target": "com.amazonaws.licensemanager#GetAccessToken"
    },
    {
      "target": "com.amazonaws.licensemanager#GetGrant"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicense"
```

```
},
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   "target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
},
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   "target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
},
{
   "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
},
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   "target": "com.amazonaws.licensemanager#GetLicenseUsage"
},
{
   "target": "com.amazonaws.licensemanager#GetServiceSettings"
},
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   "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration"
 },
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   "target": "com.amazonaws.licensemanager#ListDistributedGrants"
},
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   "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
},
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   "target": "com.amazonaws.licensemanager#ListLicenseConfigurations"
},
{
   "target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
},
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   "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
},
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   "target": "com.amazonaws.licensemanager#ListLicenses"
},
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   "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
},
{

  "target": "com.amazonaws.licensemanager#ListLicenseVersions"
},
{
   "target": "com.amazonaws.licensemanager#ListReceivedGrants"
},
{
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"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganization"
},
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"target": "com.amazonaws.licensemanager#ListReceivedLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization"
},
{
"target": "com.amazonaws.licensemanager#ListResourceInventory"
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"target": "com.amazonaws.licensemanager#ListTagsForResource"
},
{
"target": "com.amazonaws.licensemanager#ListTokens"
},
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"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
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"target": "com.amazonaws.licensemanager#RejectGrant"
},
{
"target": "com.amazonaws.licensemanager#TagResource"
},
{
"target": "com.amazonaws.licensemanager#UntagResource"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
},
{
"target": "com.amazonaws.licensemanager#UpdateServiceSettings"
}
],
"traits": {
"aws.api#service": {
"sdkId": "License Manager",
"arnNamespace": "license-manager",
"cloudFormationName": "LicenseManager",
"cloudTrailEventSource": "licensemanager.amazonaws.com",

"endpointPrefix": "license-manager"
},
"aws.auth#sigv4": {
"name": "license-manager"
},
"aws.protocols#awsJson1_1": {},
"smithy.api#documentation": " License Manager makes it easier to manage licenses from software vendors across multiple \n Amazon Web Services accounts and on-premises servers. ",
"smithy.api#title": "AWS License Manager",
"smithy.api#xmlNamespace": {
"uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
},
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}
},
"rules": [
{
"conditions": [

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            {
                "fn": "isSet",
                "argv": [
                    {
                        "ref": "Endpoint"
                    }
                ]

        }
        ],
        "type": "tree",
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseFIPS"
                            },
                            true
                        ]
                    }
                ],
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
                "type": "error"
            },
            {

"conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseDualStack"
                            },
                            true
                        ]
                    }
                ],
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                "type": "error"
            },
            {
                "conditions": [],
                "endpoint": {
                    "url": {
                        "ref": "Endpoint"
```

```
                    },
                    "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
            }
        ]
    },
    {
        "conditions": [
            {
                "fn": "isSet",
                "argv": [
                    {
                        "ref": "Region"
                    }
                ]
            }
        ],
        "type": "tree",
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "aws.partition",
                        "argv": [
                            {
                                "ref": "Region"
                            }
                        ],
                        "assign": "PartitionResult"
                    }
                ],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    {
                                        "ref":
"UseFIPS"
                                    },
                                    true
                                ]
                            },
                            {
```

```
                "fn": "booleanEquals",
                "argv": [
                  {
                    "ref": "UseDualStack"
                  },
                  true
                ]
              }
            ],
            "type": "tree",
            "rules": [
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                "conditions": [
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      true,
                      {
                        "fn": "getAttr",
                        "argv": [
                          {
                            "ref": "PartitionResult"
                          },
                          "supportsFIPS"
                        ]

                }
                    ]
                  },
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      true,
                      {
                        "fn": "getAttr",
                        "argv": [
                          {
                            "ref": "PartitionResult"
                          },

"supportsDualStack"
                        ]
                      }
                    ]
                  }
                ],
                "type": "tree",
                "rules": [
```

```
                    {
                        "conditions": [],
                        "endpoint": {
                            "url": "https://license-manager-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                            "properties": {},
                            "headers": {}

                }},
                        "type": "endpoint"
                    }
                ]
            },
            {
                "conditions": [],
                "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
                "type": "error"
            }
        ]
    },
    {
        "conditions": [
            {
                "fn": "booleanEquals",

          "argv": [
                    {
                        "ref": "UseFIPS"
                    },
                    true
                ]
            }
        ],
        "type": "tree",
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            true,

{
                        "fn": "getAttr",
                        "argv": [
                            {
                                "ref": "PartitionResult"
```

```
                                    },
                                    "supportsFIPS"
                                ]
                            }
                        ]
                    }
                ],
                "type": "tree",
                "rules": [

            {
                    "conditions": [],
                    "endpoint": {
                        "url": "https://license-manager-fips.{Region}.{PartitionResult#dnsSuffix}",
                        "properties": {},
                        "headers": {}
                    },
                    "type": "endpoint"
                }
                ]
            },
            {
                "conditions": [],
                "error": "FIPS is enabled but this
partition does not support FIPS",
                "type": "error"
            }
        ]
    },
    {
        "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [
                    {
                        "ref": "UseDualStack"
                    },
                    true
                ]
            }
        ],
        "type": "tree",
         "rules": [
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
```

```
                                    true,
                                    {
                                        "fn": "getAttr",
                                        "argv": [
                                            {
                                                "ref": "PartitionResult"
                                            },

    "supportsDualStack"
                                        ]
                                    }
                                ]
                            }
                        ],
                        "type": "tree",
                        "rules": [
                            {
                                "conditions": [],
                                "endpoint": {
                                    "url": "https://license-
manager.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                    "properties": {},
                                    "headers": {}

                        },
                                "type": "endpoint"
                            }
                        ]
                    },
                    {
                        "conditions": [],
                        "error": "DualStack is enabled but this partition does not support DualStack",
                        "type": "error"
                    }
                ]
            },
            {
                "conditions": [],
                "endpoint": {
                    "url": "https://license-manager.{Region}.{PartitionResult#dnsSuffix}",
                     "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
            }
        ]
    }
]
```

```
            },
            {
              "conditions": [],
              "error": "Invalid Configuration: Missing Region",
              "type": "error"
            }
          ]
        },
        "smithy.rules#endpointTests": {
          "testCases": [
            {
              "documentation": "For region af-south-1 with FIPS disabled and DualStack disabled",
              "expect": {
                "endpoint":
{
                  "url": "https://license-manager.af-south-1.amazonaws.com"
                }
              },
              "params": {
                "Region": "af-south-1",
                "UseFIPS": false,
                "UseDualStack": false
              }
            },
            {
              "documentation": "For region ap-east-1 with FIPS disabled and DualStack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager.ap-east-1.amazonaws.com"
                }
              },
              "params": {
                "Region": "ap-east-1",
                "UseFIPS": false,
                "UseDualStack": false
               }
            },
            {
              "documentation": "For region ap-northeast-1 with FIPS disabled and DualStack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager.ap-northeast-1.amazonaws.com"
                }
              },
              "params": {
                "Region": "ap-northeast-1",
                "UseFIPS": false,
                "UseDualStack": false
```

```
            }
        },
        {
            "documentation": "For region ap-northeast-2 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.ap-northeast-2.amazonaws.com"
                 }
            },
            "params": {
                "Region": "ap-northeast-2",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region ap-northeast-3 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.ap-northeast-3.amazonaws.com"
                }
            },
            "params": {
                "Region": "ap-northeast-3",
                "UseFIPS": false,
                "UseDualStack": false
            }

    },
        {
            "documentation": "For region ap-south-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.ap-south-1.amazonaws.com"
                }
            },
            "params": {
                "Region": "ap-south-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region ap-southeast-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.ap-southeast-1.amazonaws.com"
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}
},
"params": {
"Region": "ap-southeast-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region ap-southeast-2 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-southeast-2.amazonaws.com"
}
},
"params": {
"Region": "ap-southeast-2",
"UseFIPS": false,
"UseDualStack": false
}
},
{

"documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-southeast-3.amazonaws.com"
}
},
"params": {
"Region": "ap-southeast-3",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region ca-central-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ca-central-1.amazonaws.com"
}
},

"params": {
"Region": "ca-central-1",
"UseFIPS": false,
"UseDualStack": false
}

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            },
            {
              "documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager.eu-central-1.amazonaws.com"
                }
              },
              "params": {
                "Region": "eu-central-1",
                "UseFIPS": false,
                "UseDualStack": false
              }
            },
            {
              "documentation": "For region eu-north-1 with FIPS
disabled and DualStack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager.eu-north-1.amazonaws.com"
                }
              },
              "params": {
                "Region": "eu-north-1",
                "UseFIPS": false,
                "UseDualStack": false
              }
            },
            {
              "documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager.eu-south-1.amazonaws.com"
                }
              },
              "params": {
                "Region":
"eu-south-1",
                "UseFIPS": false,
                "UseDualStack": false
              }
            },
            {
              "documentation": "For region eu-west-1 with FIPS disabled and DualStack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager.eu-west-1.amazonaws.com"
                }
```

```
      },
      "params": {
        "Region": "eu-west-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
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      "documentation": "For region eu-west-2 with FIPS disabled and DualStack disabled",
      "expect": {

      "endpoint": {
          "url": "https://license-manager.eu-west-2.amazonaws.com"
        }
      },
      "params": {
        "Region": "eu-west-2",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
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      "documentation": "For region eu-west-3 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.eu-west-3.amazonaws.com"
        }
      },
      "params": {
        "Region": "eu-west-3",
        "UseFIPS": false,

"UseDualStack": false
      }
    },
    {
      "documentation": "For region me-south-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.me-south-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "me-south-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
```

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            {
              "documentation": "For region sa-east-1 with FIPS disabled and DualStack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager.sa-east-1.amazonaws.com"
                 }
              },
              "params": {
                "Region": "sa-east-1",
                "UseFIPS": false,
                "UseDualStack": false
              }
            },
            {
              "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager.us-east-1.amazonaws.com"
                }
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": false
              }

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            {
              "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager-fips.us-east-1.amazonaws.com"
                }
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": false
              }
            },
            {
              "documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager.us-east-2.amazonaws.com"
                }
```

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      },
        "params": {
          "Region": "us-east-2",
          "UseFIPS": false,
          "UseDualStack": false
        }
      },
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        "documentation": "For region us-east-2 with FIPS enabled and DualStack disabled",
        "expect": {
          "endpoint": {
            "url": "https://license-manager-fips.us-east-2.amazonaws.com"
          }
        },
        "params": {
          "Region": "us-east-2",
          "UseFIPS": true,
          "UseDualStack": false
        }
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      {
        "documentation": "For region
us-west-1 with FIPS disabled and DualStack disabled",
        "expect": {
          "endpoint": {
            "url": "https://license-manager.us-west-1.amazonaws.com"
          }
        },
        "params": {
          "Region": "us-west-1",
          "UseFIPS": false,
          "UseDualStack": false
        }
      },
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        "documentation": "For region us-west-1 with FIPS enabled and DualStack disabled",
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          }
        },
        "params": {

    "Region": "us-west-1",
          "UseFIPS": true,
          "UseDualStack": false
        }
      },
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                "endpoint": {
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                }
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              "params": {
                "Region": "us-west-2",
                "UseFIPS": false,
                "UseDualStack": false
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            },
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"expect": {
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                }
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              "params": {
                "Region": "us-west-2",
                "UseFIPS": true,
                "UseDualStack": false
              }
            },
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              "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager-fips.us-east-1.api.aws"
                }
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": true,

                "UseDualStack": true
              }
            },
            {
              "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager.us-east-1.api.aws"
                }
              },
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"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
}
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"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url":
"https://license-manager.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-northwest-1",
"UseFIPS": false,
"UseDualStack": false

}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{

"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": false
}
},
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"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
}
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{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",

"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-gov-west-1.amazonaws.com"
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},
"params": {
"Region": "us-gov-west-1",
"UseFIPS": false,
"UseDualStack": false
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"documentation":
"For region us-gov-west-1 with FIPS enabled and DualStack disabled",
"expect": {
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"url": "https://license-manager-fips.us-gov-west-1.amazonaws.com"
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"params": {
"Region": "us-gov-west-1",
"UseFIPS": true,
"UseDualStack": false
}
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"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
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"url": "https://license-manager-fips.us-gov-east-1.api.aws"
}
},

"params": {
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"UseFIPS": true,
"UseDualStack": true
}
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"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
"expect": {

"endpoint": {
"url": "https://license-manager.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},

{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled
but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": false
}
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{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
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"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
}
},

"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,

"UseDualStack": false
}
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"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
}
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{
"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",

"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
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{
"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,

"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"

```
                    },
                    "params": {
                        "Region": "us-east-1",
                        "UseFIPS": true,
                        "UseDualStack": false,
                        "Endpoint": "https://example.com"
                    }
                },
                {
                    "documentation": "For custom endpoint with fips disabled and dualstack enabled",
                    "expect": {
                        "error":
"Invalid Configuration: Dualstack and custom endpoint are not supported"
                    },
                    "params": {
                        "Region": "us-east-1",
                        "UseFIPS": false,
                        "UseDualStack": true,
                        "Endpoint": "https://example.com"
                    }
                },
                {
                    "documentation": "Missing region",
                    "expect": {
                        "error": "Invalid Configuration: Missing Region"
                    }
                }
            ],
            "version": "1.0"
        }
    }
},
"com.amazonaws.licensemanager#AcceptGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#AcceptGrantRequest"

},
    "output": {
        "target": "com.amazonaws.licensemanager#AcceptGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
```

```
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"

    }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Accepts the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant
ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
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"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#AccessDeniedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {

"code": "ServiceAccessDenied",
"httpResponseCode": 401
},
"smithy.api#documentation": " Access to resource denied. ",
"smithy.api#error": "client",
"smithy.api#httpError": 401
}
},
"com.amazonaws.licensemanager#ActivationOverrideBehavior": {
"type": "enum",
"members": {
"DISTRIBUTED_GRANTS_ONLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DISTRIBUTED_GRANTS_ONLY"
}
},
"ALL_GRANTS_PERMITTED_BY_ISSUER": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ALL_GRANTS_PERMITTED_BY_ISSUER"
}
}

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        }
    },
    "com.amazonaws.licensemanager#AllowedOperation": {

    "type": "enum",
        "members": {
            "CREATE_GRANT": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "CreateGrant"
                }
            },
            "CHECKOUT_LICENSE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "CheckoutLicense"
                }
            },
            "CHECKOUT_BORROW_LICENSE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "CheckoutBorrowLicense"
                }
            },
            "CHECK_IN_LICENSE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "CheckInLicense"
                }
            },
            "EXTEND_CONSUMPTION_LICENSE":
{
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "ExtendConsumptionLicense"
                }
            },
            "LIST_PURCHASED_LICENSES": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "ListPurchasedLicenses"
                }
            },
            "CREATE_TOKEN": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "CreateToken"
                }
```

```
            }
        }
    },
    "com.amazonaws.licensemanager#AllowedOperationList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#AllowedOperation"
        },
        "traits": {
            "smithy.api#length": {
                "min": 1,
                "max":
7
            }
        }
    },
    "com.amazonaws.licensemanager#Arn": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 2048
            },
            "smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-
z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
        }
    },
    "com.amazonaws.licensemanager#ArnList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Arn"
        }
    },
    "com.amazonaws.licensemanager#AuthorizationException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError":
{
                "code": "AuthorizationFailure",
                "httpResponseCode": 403
            },
            "smithy.api#documentation": "<p>The Amazon Web Services user account does not have permission to
perform the action. Check the IAM\n        policy associated with this account.</p>",
```

```
            "smithy.api#error": "client",
            "smithy.api#httpError": 403
        }
    },
    "com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
        "type": "structure",
        "members": {
            "LastRunTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time that automated discovery last ran.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes automated discovery.</p>"
        }
    },

  "com.amazonaws.licensemanager#Boolean": {
        "type": "boolean",
        "traits": {
            "smithy.api#default": false
        }
    },
    "com.amazonaws.licensemanager#BorrowConfiguration": {
        "type": "structure",
        "members": {
            "AllowEarlyCheckIn": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether early check-ins are allowed.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxTimeToLiveInMinutes": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum time for the borrow configuration, in minutes.</p>",
                    "smithy.api#required": {}
                }
            }

},
        "traits": {
            "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
        }
    },
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"com.amazonaws.licensemanager#BoxBoolean": {
"type": "boolean"
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"com.amazonaws.licensemanager#BoxInteger": {
"type": "integer"
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"com.amazonaws.licensemanager#BoxLong": {
"type": "long"
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"com.amazonaws.licensemanager#CheckInLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"

},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks in the specified license. Check in a license when it is no longer in use. "
}

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    },
    "com.amazonaws.licensemanager#CheckInLicenseRequest":
{
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",
                    "smithy.api#required": {}
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License beneficiary.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicense":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {
                "target":
"com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
        "type": "structure",
        "members":
{
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The license must
use the borrow consumption configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements. Partial checkouts are not supported.</p>",
                    "smithy.api#required": {}
```

```
                }
            },
            "DigitalSignatureMethod": {
                "target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
                "traits": {
                    "smithy.api#documentation": "<p>Digital signature method. The possible
 value is JSON Web Signature (JWS) algorithm PS384.\n        For more information, see <a
href=\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital Signature with RSASSA-PSS</a>.</p>",
                    "smithy.api#required": {}
                }
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Node ID.</p>"
                }
            },
            "CheckoutMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about constraints.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation":
 "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
```

"smithy.api#documentation": " License consumption token. "
}
},
"EntitlementsAllowed":
{
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " Allowed license entitlements. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"SignedToken": {
"target": "com.amazonaws.licensemanager#SignedToken",
"traits": {
"smithy.api#documentation": " Signed token. "
}
},
"IssuedAt": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout
is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout expires. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about constraints. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutLicense": {
"type": "operation",

"input": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target":
"com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks out the specified license. \n <note>\n If the account that created the license is the same that is performing the check out, you must\n specify the account as the beneficiary. \n </note>"
}
},
"com.amazonaws.licensemanager#CheckoutLicenseRequest": {
"type": "structure",
"members": {

"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product
SKU. ",
"smithy.api#required": {}
}
},
"CheckoutType": {
"target": "com.amazonaws.licensemanager#CheckoutType",
"traits": {
"smithy.api#documentation": " Checkout type. ",
"smithy.api#required": {}
}
},
"KeyFingerprint": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Key fingerprint identifying the license. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " License entitlements. ",

"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "

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            }
        }
    },
    "traits": {

   "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
    "type": "structure",
    "members": {
        "CheckoutType": {
            "target": "com.amazonaws.licensemanager#CheckoutType",
            "traits": {
                "smithy.api#documentation": "<p>Checkout type.</p>"
            }
        },
        "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License consumption token.</p>"
            }
        },
        "EntitlementsAllowed": {
            "target": "com.amazonaws.licensemanager#EntitlementDataList",
            "traits": {
                "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
            }
        },
         "SignedToken": {
            "target": "com.amazonaws.licensemanager#SignedToken",
            "traits": {
                "smithy.api#documentation": "<p>Signed token.</p>"
            }
        },
        "NodeId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
            }
        },
        "IssuedAt": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
            }
        },
        "Expiration": {
```

"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and
time at which the license checkout expires. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the checkout license. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutType": {
"type": "enum",
"members": {
"PROVISIONAL": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PROVISIONAL"
}
},
"PERPETUAL": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PERPETUAL"
}
}
}
},
"com.amazonaws.licensemanager#ClientRequestToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 36
}
}
},
"com.amazonaws.licensemanager#ClientToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,

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            "max": 2048
          },
          "smithy.api#pattern": "^\\S+$"
        }
      },
      "com.amazonaws.licensemanager#ConflictException": {
        "type": "structure",
        "members": {
          "Message": {
            "target": "com.amazonaws.licensemanager#Message"
          }
        },
        "traits": {
          "aws.protocols#awsQueryError": {
            "code": "ConflictException",
            "httpResponseCode":
 409
          },
          "smithy.api#documentation": "<p>There was a conflict processing the request. Try your request
again.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 409
        }
      },
      "com.amazonaws.licensemanager#ConsumedLicenseSummary": {
        "type": "structure",
        "members": {
          "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
              "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
            }
          },
          "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
              "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
            }
          }
        },

  "traits": {
          "smithy.api#documentation": "<p>Details about license consumption.</p>"
        }
      },
      "com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
        "type": "list",
        "member": {
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"target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
}
},
"com.amazonaws.licensemanager#ConsumptionConfiguration": {
"type": "structure",
"members": {
"RenewType": {
"target": "com.amazonaws.licensemanager#RenewType",
"traits": {
"smithy.api#documentation": " Renewal frequency. "
}
},
"ProvisionalConfiguration": {
"target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
"traits": {
"smithy.api#documentation": " Details about a provisional configuration. "
}
},
"BorrowConfiguration": {
"target": "com.amazonaws.licensemanager#BorrowConfiguration",
"traits": {
"smithy.api#documentation": " Details about a borrow configuration. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about a consumption configuration. "
}
},
"com.amazonaws.licensemanager#CreateGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target":
"com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},

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            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a grant for the specified license. A grant shares the use of
license\n        entitlements with a specific Amazon Web Services account, an organization, or an\n
organizational unit (OU). For more
 information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-
licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantRequest": {
        "type": "structure",
        "members": {
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>",
                    "smithy.api#required": {}

    }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Principals": {
```

"target": "com.amazonaws.licensemanager#PrincipalArnList",
"traits": {
"smithy.api#documentation": " The grant principals. You can specify one of the following as an Amazon Resource Name\n (ARN): \n \n \n An Amazon Web Services account, which includes only the account specified. \n \n \n \n \n An organizational unit (OU), which includes all accounts in the OU. \n \n \n \n \n An organization, which will include all accounts across your organization. \n \n ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations for the grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},

"com.amazonaws.licensemanager#CreateGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"Version": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateGrantVersion":
{
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a new version of the specified grant. For more information, see\n Granted licenses in License Manager in the License Manager User Guide. "
}
},

"com.amazonaws.licensemanager#CreateGrantVersionRequest": {
"type": "structure",
"members": {
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",

"smithy.api#required": {}
}
},
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations for the grant. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the grant. "
}

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            },
            "Options": {
                "target": "com.amazonaws.licensemanager#Options",
                "traits": {
                    "smithy.api#documentation": "<p>The options specified for the grant.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersionResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>New version of the grant.</p>"
                }
            }
        },
        "traits":
{
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
        },
        "errors": [
```

```
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
```

"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Creates a license configuration. \n A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), license affinity to host (how long a \n license must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension used to track the license inventory. ",
"smithy.api#required": {}
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether hard or soft license enforcement is used.

Exceeding a hard limit\n blocks the launch of new instances. "
}
},
"LicenseRules": {
"target":
"com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. The syntax is #name=value (for example,
#allowedTenancy=EC2-DedicatedHost). The available rules \n vary by dimension, as follows. \n
\n \n \n <code>Cores</code> dimension: <code>allowedTenancy</code> |\n
<code>licenseAffinityToHost</code> |\n <code>maximumCores</code> |
<code>minimumCores</code>\n \n \n \n \n
<code>Instances</code> dimension: <code>allowedTenancy</code> | \n <code>maximumCores</code> |
<code>minimumCores</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code> |\n
<code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n
\n
\n <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n
<code>licenseAffinityToHost</code> |\n <code>maximumSockets</code> |
<code>minimumSockets</code>\n \n \n \n \n
<code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n
<code>honorVcpuOptimization</code> | \n <code>maximumVcpus</code> |
<code>minimumVcpus</code>\n \n \n \n The unit for
<code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n values for
<code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n
<code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n
<code>True</code> and <code>False</code>. "
}
},

"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the license configuration. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is
uninstalled. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
}

```
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse":
{
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
             },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
```

"traits": {
"smithy.api#documentation": " Creates a new license conversion task. "
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {

"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource you are converting the license type for. ",
"smithy.api#required": {}
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information that identifies the license type you are converting from. \n\n For the structure of the source license, see Convert a license type using the CLI in the License Manager User Guide. ",
"smithy.api#required": {}
}
},
"DestinationLicenseContext":
{
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information that identifies the license type you are converting to. For the structure of the destination license, see Convert a license type using the CLI in the License Manager User Guide. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",

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    "traits": {
            "smithy.api#documentation": "<p>The ID of the created license type conversion task.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
       },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
      },
      {
        "target": "com.amazonaws.licensemanager#ValidationException"
      }
    ],
    "traits": {
      "smithy.api#documentation": "<p>Creates a report generator.</p>"
    }
  },
  "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
```

"type": "structure",
"members": {
"ReportGeneratorName":
{
"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports to generate. The following report types an be generated: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}

}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " Defines the type of license configuration the report generator tracks. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique,
case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",

```
                "traits": {
                    "smithy.api#documentation": "<p>Description of the report generator.</p>"
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Tags to add to the report generator.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn":
 {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the new report
generator.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product
 name.</p>",
                    "smithy.api#required": {}
                }
```

```
            },
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product SKU.</p>",
                    "smithy.api#required": {}
                }
            },
            "Issuer": {
                "target": "com.amazonaws.licensemanager#Issuer",
                "traits": {
                    "smithy.api#documentation": "<p>License issuer.</p>",
                    "smithy.api#required": {}
                }
            },
            "HomeRegion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Home Region for the license.</p>",
                    "smithy.api#required": {}

    }
            },
            "Validity": {
                "target": "com.amazonaws.licensemanager#DatetimeRange",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>",
                    "smithy.api#required": {}
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License beneficiary.</p>",
                    "smithy.api#required": {}
                }
             },
            "ConsumptionConfiguration": {
                "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
                "traits": {
```

"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation":
" Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
},
"traits": {

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            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersion": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target":
"com.amazonaws.licensemanager#Arn",
                "traits": {
```

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. ",
"smithy.api#required": {}
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. ",
"smithy.api#required": {}
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#Issuer",
"traits":
{
"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the license. ",
"smithy.api#required": {}
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-
UTC format. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"Entitlements": {

"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},

"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. "
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",

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            "traits": {
                "smithy.api#documentation": "<p>License ARN.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>New version of the license.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output":
{}
    }
},
"com.amazonaws.licensemanager#CreateToken": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateTokenRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateTokenResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
```

{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a long-lived token. \n A refresh token is a JWT token used to get an access token. With an access token,\n you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n call License Manager to manage the specified license. "
}
},
"com.amazonaws.licensemanager#CreateTokenRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits":
{
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n JWT token. ",
"smithy.api#required": {}
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n License Manager does not check whether the roles are in use. "
}
},
"ExpirationInDays": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Token expiration, in days, counted from token creation. The default is 365 days. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller to be included in the JWT token. The data is mapped\n to the amr claim of the JWT token. "
}

```
        },
        "ClientToken": {
            "target": "com.amazonaws.licensemanager#ClientToken",
            "traits": {
                "smithy.api#documentation": "<p>Idempotency token, valid for 10 minutes.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CreateTokenResponse": {
    "type": "structure",
    "members": {
        "TokenId": {
            "target": "com.amazonaws.licensemanager#String",

         "traits": {
                "smithy.api#documentation": "<p>Token ID.</p>"
            }
        },
        "TokenType": {
            "target": "com.amazonaws.licensemanager#TokenType",
            "traits": {
                "smithy.api#documentation": "<p>Token type.</p>"
            }
        },
        "Token": {
            "target": "com.amazonaws.licensemanager#TokenString",
            "traits": {
                "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#DateTime": {
    "type": "timestamp"
},
"com.amazonaws.licensemanager#DatetimeRange": {
    "type": "structure",
    "members": {
        "Begin": {
```

```
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Start of the time range.</p>",
                "smithy.api#required": {}
            }
        },
        "End": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>End of the time range.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC format.</p>"
    }
},
"com.amazonaws.licensemanager#DeleteGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
```

"traits": {
"smithy.api#documentation": " Deletes
the specified grant. "
}
},
"com.amazonaws.licensemanager#DeleteGrantRequest": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " The Status reason for the delete request. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the
grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}

```
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
"<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"

},
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
```

"traits": {
"smithy.api#documentation": " Deletes the specified license. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license configuration. \n You cannot delete a license configuration that is in use. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
"type": "structure",
"members":
{
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the license configuration. ",
"smithy.api#required": {}
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified report generator. \n This action deletes the report generator, which stops it from generating future reports.\n The action cannot be reversed. It has no effect on the previous reports from this generator. "

```
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to be
deleted.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {

 "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the license.</p>",
                    "smithy.api#required":
 {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
```

```
},
"com.amazonaws.licensemanager#DeleteLicenseResponse": {
    "type": "structure",
    "members": {
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
            }
        },
        "DeletionDate": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Date when the license is deleted.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#DeleteToken": {
    "type": "operation",
     "input": {
        "target": "com.amazonaws.licensemanager#DeleteTokenRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#DeleteTokenResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
```

```
{
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
    }
},
"com.amazonaws.licensemanager#DeleteTokenRequest": {
    "type": "structure",
    "members": {
        "TokenId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token ID.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#DeleteTokenResponse": {
    "type": "structure",
    "members": {},
    "traits": {
        "smithy.api#output": {}

  }
},
"com.amazonaws.licensemanager#DigitalSignatureMethod": {
    "type": "enum",
    "members": {
        "JWT_PS384": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "JWT_PS384"
            }
        }
    }
},
"com.amazonaws.licensemanager#Entitlement": {
    "type": "structure",
    "members": {
        "Name": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement resource. Use only
if the unit is None. "
}
},
"MaxCount": {
"target": "com.amazonaws.licensemanager#Long",
"traits": {
"smithy.api#documentation": " Maximum entitlement count. Use if the unit is not None. "
}
},
"Overage": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether overages are allowed. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementUnit",
"traits": {
"smithy.api#documentation": " Entitlement unit. ",
"smithy.api#required": {}
}
},
"AllowCheckIn": {
"target":
"com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether check-ins are allowed. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a resource entitled for use with a license. "
}
},
"com.amazonaws.licensemanager#EntitlementData": {
"type": "structure",
"members": {
"Name": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement data name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement
data value. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementDataUnit",
"traits": {
"smithy.api#documentation": " Entitlement data unit. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Data associated with an entitlement resource. "
}
},
"com.amazonaws.licensemanager#EntitlementDataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#EntitlementData"
}
},
"com.amazonaws.licensemanager#EntitlementDataUnit": {
"type": "enum",
"members": {
"COUNT": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Count"
}
},
"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"SECONDS": {

```
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Seconds"
    }
},
"MICROSECONDS": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Microseconds"
    }
},
"MILLISECONDS": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Milliseconds"
    }
},
"BYTES": {
    "target": "smithy.api#Unit",
     "traits": {
        "smithy.api#enumValue": "Bytes"
    }
},
"KILOBYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Kilobytes"
    }
},
"MEGABYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Megabytes"
    }
},
"GIGABYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Gigabytes"
    }
},
"TERABYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Terabytes"
    }
},
"BITS":
```

{
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits"
}
},
"KILOBITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobits"
}
},
"MEGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits"
}
},
"GIGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits"
}
},
"TERABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits"

}
},
"PERCENT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Percent"
}
},
"BYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes/Second"
}
},
"KILOBYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes/Second"
}

```
        },
        "MEGABYTES_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Megabytes/Second"
          }
        },
        "GIGABYTES_PER_SECOND": {
          "target": "smithy.api#Unit",
           "traits": {
            "smithy.api#enumValue": "Gigabytes/Second"
          }
        },
        "TERABYTES_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Terabytes/Second"
          }
        },
        "BITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Bits/Second"
          }
        },
        "KILOBITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Kilobits/Second"
          }
        },
        "MEGABITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue":
"Megabits/Second"
          }
        },
        "GIGABITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Gigabits/Second"
          }
        },
        "TERABITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Terabits/Second"
```

```
            }
        },
        "COUNT_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Count/Second"
            }
        }
    }
},
"com.amazonaws.licensemanager#EntitlementList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Entitlement"
    }
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException":
{
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>The entitlement is not allowed.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#EntitlementUnit": {
    "type": "enum",
    "members": {
        "COUNT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Count"
            }
        },
        "NONE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "None"
            }
        },
        "SECONDS":
{
            "target": "smithy.api#Unit",
```

```
    "traits": {
        "smithy.api#enumValue": "Seconds"
    }
},
"MICROSECONDS": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Microseconds"
    }
},
"MILLISECONDS": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Milliseconds"
    }
},
"BYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Bytes"
    }
},
"KILOBYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Kilobytes"
     }
},
"MEGABYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Megabytes"
    }
},
"GIGABYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Gigabytes"
    }
},
"TERABYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Terabytes"
    }
},
"BITS": {
    "target": "smithy.api#Unit",
```

"traits": {
"smithy.api#enumValue": "Bits"
}
},
"KILOBITS": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Kilobits"
}
},
"MEGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits"
}
},
"GIGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits"
}
},
"TERABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits"
}
},
"PERCENT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Percent"
}
},
"BYTES_PER_SECOND": {
"target":
"smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes/Second"
}
},
"KILOBYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes/Second"
}
},

"MEGABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes/Second"
}
},
"GIGABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes/Second"
}
},
"TERABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Terabytes/Second"
}
},
"BITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits/Second"
}
},
"KILOBITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobits/Second"
}
},
"MEGABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits/Second"
}
},
"GIGABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits/Second"
}
},

"TERABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits/Second"

```
            }
        },
        "COUNT_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Count/Second"
            }
        }
    }
},
"com.amazonaws.licensemanager#EntitlementUsage": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage name.</p>",
                "smithy.api#required": {}
            }
        },
        "ConsumedValue": {
            "target": "com.amazonaws.licensemanager#String",

       "traits": {
                "smithy.api#documentation": "<p>Resource usage consumed.</p>",
                "smithy.api#required": {}
            }
        },
        "MaxCount": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
            }
        },
        "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
    }
},
"com.amazonaws.licensemanager#EntitlementUsageList":
```

```
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#EntitlementUsage"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumption": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",
```

"smithy.api#required": {}

}
},
"DryRun": {
"target": "com.amazonaws.licensemanager#Boolean",
"traits": {
"smithy.api#default": false,
"smithy.api#documentation": " Checks whether you have the required permissions for the action, without actually making the request. Provides an error response if you do not have the required permissions. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},

"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license consumption expires. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#FailedDependencyException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
},
"ErrorCode": {
"target": "com.amazonaws.licensemanager#String"
}
},

"traits": {
"aws.protocols#awsQueryError": {
"code": "FailedDependency",
"httpResponseCode": 424
},
"smithy.api#documentation":
" A dependency required to run the API is missing. ",
"smithy.api#error": "client",
"smithy.api#httpError": 424
}
},
"com.amazonaws.licensemanager#Filter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#FilterName",
"traits": {
"smithy.api#documentation": " Name of the filter. Filter names are case-sensitive. "
}
},
"Values": {
"target": "com.amazonaws.licensemanager#FilterValues",
"traits": {
"smithy.api#documentation": " The value of the filter, which is case-sensitive. You can only
specify one value for the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter
name and value pair that is used to return more specific results from a\n describe operation. Filters can be used
to match a set of resources by specific criteria,\n such as tags, attributes, or IDs. "
}
},
"com.amazonaws.licensemanager#FilterLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "FilterLimitExceeded",
"httpResponseCode": 400
},
"smithy.api#documentation": " The request uses too many filters or too many filter values. ",
"smithy.api#error": "client",

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        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#FilterList": {
    "type": "list",
     "member": {
        "target": "com.amazonaws.licensemanager#Filter"
    }
},
"com.amazonaws.licensemanager#FilterName": {
    "type": "string"
},
"com.amazonaws.licensemanager#FilterValue": {
    "type": "string"
},
"com.amazonaws.licensemanager#FilterValues": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#FilterValue",
        "traits": {
            "smithy.api#xmlName": "item"
        }
    }
},
"com.amazonaws.licensemanager#Filters": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Filter",
        "traits": {
            "smithy.api#xmlName": "item"
        }
    }
},
"com.amazonaws.licensemanager#GetAccessToken": {
    "type": "operation",
    "input": {
         "target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
```

```
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets a temporary access token to use with
AssumeRoleWithWebIdentity. Access
 tokens\n          are valid for one hour.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenRequest": {
        "type": "structure",
        "members": {
            "Token": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>",
                    "smithy.api#required": {}
                }
            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Token properties to validate against those present in the JWT
token.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenResponse":
 {
        "type": "structure",
        "members": {
            "AccessToken": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Temporary access token.</p>"
                }
            }
```

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    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#GetGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"

   },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
```

"smithy.api#required": {}
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetGrantResponse": {
"type": "structure",
"members": {
"Grant": {
"target": "com.amazonaws.licensemanager#Grant",
"traits": {
"smithy.api#documentation": " Grant details. "
}
}
},
"traits": {

"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"

},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license configuration. "
}
},
"com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
}
},
"traits":
{
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Unique ID for the license configuration. "
}
},
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension for which the licenses are counted. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",

"traits": {
"smithy.api#documentation": " License rules. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",

"traits": {
"smithy.api#documentation": " Number of available licenses. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Sets the number of available licenses as a hard limit. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses assigned to resources. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License configuration status. "
}

},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the owner of the license configuration. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the licenses consumed by resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the managed resources. "
}
},

"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags for the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When
true, disassociates a resource when software is uninstalled. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTask": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},

{

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets information about the specified license type conversion task. "
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task to retrieve information on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the resources the license conversion task is associated with. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information

about the license type converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted to. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
"traits": {
"smithy.api#documentation": " Status of the license type conversion task. "
}
},

"StartTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time at which the license type conversion task was started . "
}
},
"LicenseConversionTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Amount of time to complete the license type conversion. "
}
},
"EndTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time at which the license type conversion task was completed. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGenerator":

```
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

         },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets information about the specified report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>",
                    "smithy.api#required":
```

{}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"ReportGenerator": {
"target": "com.amazonaws.licensemanager#ReportGenerator",
"traits": {
"smithy.api#documentation": " A report generator that creates periodic reports about your license configurations. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseResponse": {
"type": "structure",
"members": {

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            "License": {
                "target": "com.amazonaws.licensemanager#License",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },

"com.amazonaws.licensemanager#GetLicenseUsage": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {

"target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the usage of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseUsageRequest": {
        "type": "structure",
        "members": {
```

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            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseUsageResponse": {
        "type": "structure",
        "members": {
            "LicenseUsage": {
                "target":
"com.amazonaws.licensemanager#LicenseUsage",
                "traits": {
                    "smithy.api#documentation": "<p>License usage details.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
```

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        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets the License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsRequest": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Regional S3 bucket path for storing reports, license trail event data,
discovery data,\n        and so on.</p>"

  }
            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>SNS topic configured to receive notifications from License
Manager.</p>"
                }
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether Organizations is integrated with License
Manager for\n        cross-account discovery.</p>"
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether cross-account discovery is enabled.</p>"
                }

        },
            "LicenseManagerResourceShareArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource share. The License
```

Manager management account \n provides member accounts with access to this share. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#Grant": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"GrantName": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}
}
},
"ParentArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Parent ARN. ",
"smithy.api#required": {}
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. ",
"smithy.api#required": {}
}
},
"GranteePrincipalArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {

"smithy.api#documentation": " The grantee principal ARN. ",
"smithy.api#required": {}
}
},

```
            "HomeRegion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Home Region of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantStatus": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>",
                    "smithy.api#required": {}
                }
            },
            "StatusReason": {
                "target": "com.amazonaws.licensemanager#StatusReasonMessage",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status reason.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantedOperations": {
                "target": "com.amazonaws.licensemanager#AllowedOperationList",
                "traits": {
                    "smithy.api#documentation": "<p>Granted operations.</p>",
                    "smithy.api#required": {}
                }
            },
            "Options": {
                "target": "com.amazonaws.licensemanager#Options",
                "traits": {
                    "smithy.api#documentation": "<p>The options specified for the grant.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation":
"<p>Describes a grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#GrantList": {
        "type": "list",
```

```
    "member": {
        "target": "com.amazonaws.licensemanager#Grant"
    }
},
"com.amazonaws.licensemanager#GrantStatus": {
    "type": "enum",
    "members": {
        "PENDING_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_WORKFLOW"
            }
        },
        "PENDING_ACCEPT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_ACCEPT"
            }
        },
        "REJECTED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "REJECTED"

        }
        },
        "ACTIVE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "ACTIVE"
            }
        },
        "FAILED_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "FAILED_WORKFLOW"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        },
        "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
```

```
            }
          },
          "DISABLED": {
            "target": "smithy.api#Unit",
            "traits":
{
              "smithy.api#enumValue": "DISABLED"
            }
          },
          "WORKFLOW_COMPLETED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "WORKFLOW_COMPLETED"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#GrantedLicense": {
        "type": "structure",
        "members": {
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
          },
          "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>License name.</p>"
            }

    },
          "ProductName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Product name.</p>"
            }
          },
          "ProductSKU": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Product SKU.</p>"
            }
          },
          "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
```

"smithy.api#documentation": " Granted license issuer. "
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the granted license. "

}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " Granted license status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the granted license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Granted license beneficiary. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Granted license metadata. "
}
},
"CreateTime": {

"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Creation time of the granted license. "

}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Version of the granted license. "
}
},
"ReceivedMetadata": {
"target": "com.amazonaws.licensemanager#ReceivedMetadata",
"traits": {
"smithy.api#documentation": " Granted license received metadata. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a license that is granted to a grantee. "
}
},
"com.amazonaws.licensemanager#GrantedLicenseList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#GrantedLicense"
}
},
"com.amazonaws.licensemanager#ISO8601DateTime":
{
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[0-3]|[0-1][0-9]):[0-5][0-9])+$"
}
},
"com.amazonaws.licensemanager#Integer": {
"type": "integer"
},
"com.amazonaws.licensemanager#InvalidParameterValueException": {
"type": "structure",
"members": {
"Message": {

"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidParameterValueProvided",
"httpResponseCode": 400
},
"smithy.api#documentation":
" One or more parameter values are not valid. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#InvalidResourceStateException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidResourceState",
"httpResponseCode": 400
},
"smithy.api#documentation": " License Manager cannot allocate a license to a resource because of its state. \n For example, you cannot allocate a license to an instance in the process of shutting\n down. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},

"com.amazonaws.licensemanager#InventoryFilter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the filter. ",
"smithy.api#required": {}
}
},
"Condition": {
"target": "com.amazonaws.licensemanager#InventoryFilterCondition",
"traits": {
"smithy.api#documentation": " Condition of the filter. ",

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                "smithy.api#required": {}
            }
        },
        "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Value of the filter.</p>"
            }
        }

    },
        "traits": {
            "smithy.api#documentation": "<p>An inventory filter.</p>"
        }
    },
    "com.amazonaws.licensemanager#InventoryFilterCondition": {
        "type": "enum",
        "members": {
            "EQUALS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "EQUALS"
                }
            },
            "NOT_EQUALS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "NOT_EQUALS"
                }
            },
            "BEGINS_WITH": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "BEGINS_WITH"
                }
            },
            "CONTAINS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "CONTAINS"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#InventoryFilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#InventoryFilter"
```

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        }
    },
    "com.amazonaws.licensemanager#Issuer": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Issuer name.</p>",
                    "smithy.api#required": {}
                }
            },
            "SignKey": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage
 of sign and verify, \n        and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about the issuer of a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#IssuerDetails": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Issuer name.</p>"
                }
            },
            "SignKey": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n        and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
                }
            },
            "KeyFingerprint": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Issuer key fingerprint.</p>"
                }
            }
```

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    },
    "traits": {
        "smithy.api#documentation": "<p>Details associated with the issuer of a license.</p>"
    }
},
"com.amazonaws.licensemanager#License": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
        },
        "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {

       "smithy.api#documentation": "<p>License name.</p>"
            }
        },
        "ProductName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product name.</p>"
            }
        },
        "ProductSKU": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product SKU.</p>"
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
                "smithy.api#documentation": "<p>License issuer.</p>"
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {

        "smithy.api#documentation": "<p>Home Region of the license.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
```

"traits": {
"smithy.api#documentation": " License status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"Entitlements": {

"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " License metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " License creation time. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}

```
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Software license that is managed in License Manager.</p>"
    }
},
"com.amazonaws.licensemanager#LicenseConfiguration": {
    "type": "structure",
    "members": {
        "LicenseConfigurationId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Unique ID of the license configuration.</p>"
            }
        },
        "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
            }
        },
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Name of the license configuration.</p>"
            }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Description of the license configuration.</p>"
            }
        },
        "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
            "traits": {
                "smithy.api#documentation": "<p>Dimension to use to track the license inventory.</p>"
             }
        },
        "LicenseRules": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>License rules.</p>"
            }
        },
        "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
```

"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Number of available licenses as a hard limit. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the license configuration. "
}
},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the license configuration's owner. "

}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries for licenses consumed by various resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries for managed resources. "
}
},
"ProductInformationList": {

"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {

"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
}
},
"traits": {
"smithy.api#documentation": " A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
"type": "structure",
"members": {
"ResourceArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of server resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource consuming licenses. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {

"smithy.api#documentation": " Time when the license configuration was associated with the resource. "
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes an association with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
}
},
"com.amazonaws.licensemanager#LicenseConfigurationStatus": {
"type": "enum",
"members":
{
"AVAILABLE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "AVAILABLE"
}
},
"DISABLED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DISABLED"
}
}
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsage": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},

"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits":
{
"smithy.api#documentation": " Type of resource. "
}
},
"ResourceStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the account that owns the resource. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was initially associated with the resource. "
}
},

"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about the usage of a resource associated with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
}
},
"com.amazonaws.licensemanager#LicenseConfigurations": {
"type": "list",
"member": {

"target": "com.amazonaws.licensemanager#LicenseConfiguration"
}
},
"com.amazonaws.licensemanager#LicenseConversionContext": {

"type": "structure",
"members": {
"UsageOperation": {
"target": "com.amazonaws.licensemanager#UsageOperation",
"traits": {
"smithy.api#documentation": " The Usage operation value that corresponds to the license type you are converting your resource from. For more information about which platforms correspond to which usage operation values see Sample data: usage operation by platform\n \n "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTask": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {

"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " The ID of the license type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the resource associated with the license type\n conversion task. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted from. "
}
},
"DestinationLicenseContext": {
"target":

"com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted to. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
"traits": {
"smithy.api#documentation": " The status of the conversion task. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},
"StartTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the conversion task was started at. "
}
},
"LicenseConversionTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the usage operation value of the resource was changed. "
}
},
"EndTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the conversion task was completed. "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTaskId": {
"type": "string",
"traits": {

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        "smithy.api#length": {
            "min": 0,
            "max": 50
        },
        "smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
    }
  },
  "com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
    "type": "enum",
    "members": {
      "IN_PROGRESS": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "IN_PROGRESS"
        }
      },
      "SUCCEEDED": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "SUCCEEDED"
        }
      },
      "FAILED": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "FAILED"
        }
      }
    }
  },
  "com.amazonaws.licensemanager#LicenseConversionTasks":
{
    "type": "list",
    "member": {
      "target": "com.amazonaws.licensemanager#LicenseConversionTask"
    }
  },
  "com.amazonaws.licensemanager#LicenseCountingType": {
    "type": "enum",
    "members": {
      "VCPU": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "vCPU"
        }
      },
      "INSTANCE": {
        "target": "smithy.api#Unit",
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            "traits": {
                "smithy.api#enumValue": "Instance"
            }
        },
        "CORE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Core"
            }
        },
        "SOCKET": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "Socket"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseDeletionStatus": {
    "type": "enum",
    "members": {
        "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#License"
    }
},
"com.amazonaws.licensemanager#LicenseOperationFailure": {

    "type": "structure",
    "members": {
        "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Resource type. "
}
},
"ErrorMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Error message. "
}
},
"FailureTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {

"smithy.api#documentation": " Failure time. "
}
},
"OperationName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the operation. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource. "
}
},
"OperationRequestedBy": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The requester is \"License Manager Automated Discovery\". "
}
},
"MetadataList": {

"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Reserved. "
}
}

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        },
        "traits": {
            "smithy.api#documentation": "<p>Describes the failure of a license operation.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseOperationFailureList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseOperationFailure"
        }
    },
    "com.amazonaws.licensemanager#LicenseSpecification": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",

                "smithy.api#required": {}
                }
            },
            "AmiAssociationScope": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-
account</code>.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details for associating a license configuration with a resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseSpecifications": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseSpecification"
        }
    },
    "com.amazonaws.licensemanager#LicenseStatus": {
        "type": "enum",
        "members": {
            "AVAILABLE": {
                "target": "smithy.api#Unit",
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        "traits": {
            "smithy.api#enumValue": "AVAILABLE"
          }
        },
        "PENDING_AVAILABLE": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "PENDING_AVAILABLE"
          }
        },
        "DEACTIVATED": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "DEACTIVATED"
          }
        },
        "SUSPENDED": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "SUSPENDED"
          }
        },
        "EXPIRED": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "EXPIRED"
          }
        },

      "PENDING_DELETE": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "PENDING_DELETE"
          }
        },
        "DELETED": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "DELETED"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#LicenseUsage": {
      "type": "structure",
      "members": {
        "EntitlementUsages": {
          "target": "com.amazonaws.licensemanager#EntitlementUsageList",
```

"traits": {
"smithy.api#documentation": " License entitlement usages. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the entitlement usage associated with a license. "

}
},
"com.amazonaws.licensemanager#LicenseUsageException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "LicenseUsageFailure",
"httpResponseCode": 412
},
"smithy.api#documentation": " You do not have enough licenses available to support a new resource launch. ",
"smithy.api#error": "client",
"smithy.api#httpError": 412
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{

"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the resource associations for the
specified license configuration. \n Resource associations need not consume licenses from a license
configuration. \n For example, an AMI or a stopped instance might not consume a license (depending on \n
the license rules). "
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results
to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationAssociations": {

"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
"traits": {
"smithy.api#documentation": " Information about the associations for the license configuration. "
}
},
"NextToken": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}

```
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the grants distributed for the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
        "type": "structure",
        "members": {
            "GrantArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {

            "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n            <p>\n                <code>LicenseArn</code>\n            </p>\n
        </li>\n            <li>\n            <p>\n                <code>GrantStatus</code>\n            </p>\n            </li>\n
    <li>\n            <p>\n                <code>GranteePrincipalARN</code>\n            </p>\n            </li>\n
<li>\n            <p>\n                <code>ProductSKU</code>\n            </p>\n            </li>\n            <li>\n
<p>\n                <code>LicenseIssuerName</code>\n
        </p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
        "type": "structure",
        "members": {
            "Grants": {
```

"target": "com.amazonaws.licensemanager#GrantList",

"traits": {
"smithy.api#documentation": " Distributed grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license configuration operations that failed. "
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {

"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name of the license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse": {
"type": "structure",
"members": {
"LicenseOperationFailureList": {
"target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
"traits": {
"smithy.api#documentation": " License configuration operations that failed. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConfigurations": {

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
},

"output": {
"target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license configurations
for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArns": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the license
configurations. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}

```
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next
 set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n                Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n                Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n
<p>\n                <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license
enforcement is used. \n                Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p>\n
    </li>\n            <li>\n                <p>\n                <code>usagelimitExceeded</code> - A Boolean value that
indicates whether the available licenses have been exceeded. \n                Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n        </ul>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurations": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurations",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",

          "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
```

```
    }
},
"com.amazonaws.licensemanager#ListLicenseConversionTasks": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
    "type": "structure",
    "members": {
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {

"smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        },
        "Filters": {
```

"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " \n Filters to scope the results. Valid filters are <code>ResourceArns</code> and <code>Status</code>.\n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
"type": "structure",
"members": {
"LicenseConversionTasks": {
"target": "com.amazonaws.licensemanager#LicenseConversionTasks",
"traits": {
"smithy.api#documentation": " Information about the license configuration tasks for your account. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

```
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the report generators for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest":
{
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:
</p>\n        <ul>\n            <li>\n                <p>\n                    <code>LicenseConfigurationArn</code>\n
</p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits":
{
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
```

```
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
        "type": "structure",
        "members": {
            "ReportGenerators": {
                "target": "com.amazonaws.licensemanager#ReportGeneratorList",
                "traits": {
                    "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }

        }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Describes the license configurations for the specified resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a resource that has an
associated license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {

        "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
        "type": "structure",
        "members": {
            "LicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>License configurations associated with a resource.</p>"
                }
            },
            "NextToken": {
```

```
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists all versions of the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
            }
```

```
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
        "type": "structure",
        "members": {
            "Licenses": {
                "target": "com.amazonaws.licensemanager#LicenseList",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
                }
            },

"NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenses": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicensesRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicensesResponse"
        },
        "errors": [
```

```
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the licenses for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicensesRequest": {
        "type": "structure",
        "members": {
            "LicenseArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
                }
            },

    "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n    <ul>\n    <li>\n    <p>\n    <code>Beneficiary</code>\n    </p>\n
    </li>\n    <li>\n    <p>\n    <code>ProductSKU</code>\n    </p>\n    </li>\n
    <li>\n    <p>\n    <code>Fingerprint</code>\n    </p>\n    </li>\n    <li>\n
<p>\n    <code>Status</code>\n    </p>\n    </li>\n    </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token
```

for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicensesResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#LicenseList",
"traits": {
"smithy.api#documentation": " License details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists grants that are received. Received grants are grants created while specifying the\n recipient as this Amazon Web Services account, your organization, or an organizational unit\n (OU) to which this member account belongs. "
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganization": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},

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            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target":
 "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the grants received for all accounts in the organization.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the received license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n
    <ul>\n        <li>\n            <p>\n                <code>ParentArn</code>\n            </p>\n        </li>\n
<li>\n            <p>\n                <code>GranteePrincipalArn</code>\n            </p>\n        </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
```

"com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Lists the grants the organization has received. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
"type": "structure",
"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranterAccountId</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},

```
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
    "type": "structure",
    "members": {
        "Grants": {
            "target": "com.amazonaws.licensemanager#GrantList",
             "traits": {
                "smithy.api#documentation": "<p>Received grant details.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
         },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists received licenses.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {

    "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
```

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the licenses received for all accounts in the organization. "
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest": {
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>Beneficiary</code>\n \n \n \n \n <code>ProductSKU</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#GrantedLicenseList",
"traits": {
"smithy.api#documentation": " Lists the licenses the organization has received. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
"type": "structure",
"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},

"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>IssuerName</code>\n \n \n \n \n <code>Beneficiary</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
"type": "structure",

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    "members": {
      "Licenses": {
        "target": "com.amazonaws.licensemanager#GrantedLicenseList",
        "traits": {
          "smithy.api#documentation": "<p>Received license details.</p>"
        }
      },

      "NextToken": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Token for the next set of results.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#ListResourceInventory": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#FailedDependencyException"
      },
      {
        "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
```

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListResourceInventoryRequest": {
        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                 "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#InventoryFilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>account_id</code>
- The ID of the Amazon Web Services account that owns the resource.\n                Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n
            </li>\n            <li>\n                <p>\n                    <code>application_name</code> - The name of the
application. \n                Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n
    </li>\n            <li>\n                <p>\n                    <code>license_included</code> - The type of license included. \n
            Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n                Possible values
are <code>sql-server-enterprise</code> | \n                <code>sql-server-standard</code> | \n                <code>sql-
server-web</code> |  \n                <code>windows-server-datacenter</code>.</p>\n            </li>\n            <li>\n
    <p>\n                    <code>platform</code> - The platform of the resource.\n                Logical operators are
<code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n            </li>\n            <li>\n                <p>\n
        <code>resource_id</code> - The ID of the resource. \n                Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n
      <code>tag:<key></code> - The key/value combination of a tag assigned \n                to the resource. Logical
operators are <code>EQUALS</code> (single account) or\n                <code>EQUALS</code> |
<code>NOT_EQUALS</code> (cross account).</p>\n            </li>\n        </ul>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
```

"com.amazonaws.licensemanager#ListResourceInventoryResponse": {
"type": "structure",
"members": {
"ResourceInventoryList": {
"target": "com.amazonaws.licensemanager#ResourceInventoryList",
"traits": {
"smithy.api#documentation": " Information
about the resources. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListTagsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the tags for the specified license configuration. "

```
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",

    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceResponse": {
        "type": "structure",
        "members": {
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the tags.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListTokens": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTokensRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTokensResponse"
        },
        "errors":
[
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists your tokens.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTokensRequest": {
        "type": "structure",
        "members": {
            "TokenIds": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {

                  "smithy.api#documentation": "<p>Token IDs.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filter is supported:</p>\n
    <ul>\n        <li>\n        <p>\n        <code>LicenseArns</code>\n        </p>\n        </li>\n
</ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation":
 "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
```

```
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListTokensResponse": {
        "type": "structure",
        "members": {
            "Tokens": {
                "target": "com.amazonaws.licensemanager#TokenList",
                "traits": {
                    "smithy.api#documentation": "<p>Received token details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying license\n        consumption details by resource at a selected point in time. Use this action to audit the\n        current license consumption for any license inventory and configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>resourceArn</code> - The ARN of the license configuration resource.\n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n                <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n                <code>resourceAccount</code> - The ID of the account that owns the resource. \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n        </ul>"
                }
            }
```

```
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
        "type": "structure",
        "members": {

"LicenseConfigurationUsageList": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#Location": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#Long": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#ManagedResourceSummary": {
        "type": "structure",
        "members": {
            "ResourceType":
{
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
                }
            },
            "AssociationCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
                }
            }
```

```
    },
    "traits": {
        "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
    }
},
"com.amazonaws.licensemanager#MaxSize100": {

"type": "integer",
    "traits": {
        "smithy.api#range": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#String"
    },
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 3
        }
    }
},
"com.amazonaws.licensemanager#Message": {
    "type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The key name.</p>"
            }
        },

"Value": {
            "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " The value. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes key/value pairs. "
}
},
"com.amazonaws.licensemanager#MetadataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Metadata"
}
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " There are no entitlements found for this license, or the entitlement maximum count is reached. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#Options": {
"type": "structure",
"members": {
"ActivationOverrideBehavior": {
"target": "com.amazonaws.licensemanager#ActivationOverrideBehavior",
"traits": {
"smithy.api#documentation": " An activation option for your grant that determines the behavior of activating a grant.\n Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the\n <code>Status</code> parameter. \n \n \n As a license administrator, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when activating a grant. \n \n \n As a grantor, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee\n account in your organization. \n \n \n As a grantee, if the grantor creating the distributed grant doesnt specify an\n <code>ActivationOverrideBehavior</code>, you can optionally specify one when you\n are activating the grant. \n \n \n <dl>\n <dt>DISTRIBUTED_GRANTS_ONLY</dt>\n <dd>\n Use this value to activate a grant without replacing any member accounts\n active grants for the same product. \n </dd>\n <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt>\n <dd>\n Use this value to activate a

grant and disable other active grants in any\n member accounts
for the same product. This action will also replace their\n previously activated grants with this activated grant. \n </dd>\n </dl>"
}
}
},
"traits": {
"smithy.api#documentation": " The options you can specify when you create a new version of a grant, such as activation\n override behavior. For more information, see Granted licenses in License Manager in the License Manager User Guide. "
}
},
"com.amazonaws.licensemanager#OrganizationConfiguration": {
"type": "structure",
"members": {
"EnableIntegration": {
"target": "com.amazonaws.licensemanager#Boolean",
"traits": {
"smithy.api#default": false,
"smithy.api#documentation": " Enables Organizations integration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Configuration information for Organizations. "
}
},
"com.amazonaws.licensemanager#PrincipalArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 1
}
}
},
"com.amazonaws.licensemanager#ProductInformation": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterList": {
"target": "com.amazonaws.licensemanager#ProductInformationFilterList",
"traits": {
"smithy.api#documentation": " A Product information filter consists of a <code>ProductInformationFilterComparator</code> which is a logical operator, a <code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. \n Accepted values for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. \n The following filters and are supported when the resource type \n is <code>SSM_MANAGED</code>: \n \n \n \n <code>Application Name</code> - The name of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Publisher</code> - The publisher of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Version</code> - The version of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Type</code> - The platform type.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n \n \n \n \n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n \n \n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n Possible values are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n The following filters and logical operators are supported when the resource type\n is <code>RDS</code>: \n \n \n \n <code>Engine Edition</code> - The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>. \n \n \n \n <code>License Pack</code> - The license pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n <code>diagnostic pack sqlt</code> | \n <code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n \n ",
"smithy.api#required": {}
}
}
},

```
    "traits": {
        "smithy.api#documentation": "<p>Describes product information for a license configuration.</p>"
    }
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
    "type": "structure",
    "members": {
        "ProductInformationFilterName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Filter name.</p>",
                "smithy.api#required": {}
            }
        },
        "ProductInformationFilterValue": {
            "target": "com.amazonaws.licensemanager#StringList",

      "traits": {
                "smithy.api#documentation": "<p>Filter value.</p>"
            }
        },
        "ProductInformationFilterComparator": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Logical operator.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes product information filters.</p>"
    }
},
"com.amazonaws.licensemanager#ProductInformationFilterList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformationFilter"
    }
},
"com.amazonaws.licensemanager#ProductInformationList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformation"
     }
},
"com.amazonaws.licensemanager#ProvisionalConfiguration": {
    "type": "structure",
    "members": {
```

"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the provisional configuration, in minutes. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details about a provisional configuration. "
}
},
"com.amazonaws.licensemanager#RateLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "RateLimitExceeded",
"httpResponseCode": 429
},
"smithy.api#documentation": " Too many requests have been submitted. Try again after a brief wait. ",
"smithy.api#error": "client",
"smithy.api#httpError": 429
}
},
"com.amazonaws.licensemanager#ReceivedMetadata": {
"type": "structure",
"members": {
"ReceivedStatus": {
"target": "com.amazonaws.licensemanager#ReceivedStatus",
"traits": {
"smithy.api#documentation": " Received status. "
}
},
"ReceivedStatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Received status reason. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",

```
            "traits": {
                "smithy.api#documentation": "<p>Allowed operations.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Metadata associated with received licenses and grants.</p>"
    }
},
"com.amazonaws.licensemanager#ReceivedStatus": {
    "type": "enum",
    "members": {
        "PENDING_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_WORKFLOW"
            }
        },
        "PENDING_ACCEPT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue":
"PENDING_ACCEPT"
            }
        },
        "REJECTED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "REJECTED"
            }
        },
        "ACTIVE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "ACTIVE"
            }
        },
        "FAILED_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "FAILED_WORKFLOW"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
```

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        },
        "DISABLED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DISABLED"
            }
        },
        "WORKFLOW_COMPLETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "WORKFLOW_COMPLETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#RedirectException": {
    "type": "structure",
    "members": {
        "Location": {
            "target": "com.amazonaws.licensemanager#Location",
            "traits": {
                "smithy.api#httpHeader": "Location"
            }
        },
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 308
    }
},
"com.amazonaws.licensemanager#RejectGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#RejectGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#RejectGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target":
"com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#RejectGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}

  }
    },
    "com.amazonaws.licensemanager#RejectGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
```

```
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#RenewType":
{
    "type": "enum",
    "members": {
        "NONE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "None"
            }
        },
        "WEEKLY": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Weekly"
            }
        },
        "MONTHLY": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Monthly"
            }
        }
    }
},
"com.amazonaws.licensemanager#ReportContext": {
    "type": "structure",
    "members": {
        "licenseConfigurationArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
            "traits": {
```

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration that this generator reports on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details of the license configuration that this generator reports on. "
}
},
"com.amazonaws.licensemanager#ReportFrequency": {
"type": "structure",
"members": {
"value": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Number of times within the frequency period that a report is generated. \n The only supported value is <code>1</code>. "
}
},
"period": {
"target": "com.amazonaws.licensemanager#ReportFrequencyType",

"traits": {
"smithy.api#documentation": " Time period between each report. The period can be daily, weekly, or monthly. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"com.amazonaws.licensemanager#ReportFrequencyType": {
"type": "enum",
"members": {
"DAY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DAY"
}
},
"WEEK": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "WEEK"
}
},

"MONTH": {
"target": "smithy.api#Unit",
"traits":
{
"smithy.api#enumValue": "MONTH"
}
}
}
},
"com.amazonaws.licensemanager#ReportGenerator": {
"type": "structure",
"members": {
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the report generator. "
}
},
"ReportType": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports that are generated. "
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " License
configuration type for this generator. "
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. "
}
},
"LastRunStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the last report generation attempt. "
}

```
            },
            "LastRunFailureReason":
 {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Failure message for the last report generation attempt.</p>"
                }
            },
            "LastReportGenerationTime": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Time the last report was generated at.</p>"
                }
            },
            "ReportCreatorAccount": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Web Services account ID used to create the report
generator.</p>"
                }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",

        "traits": {
                    "smithy.api#documentation": "<p>Description of the report generator.</p>"
                }
            },
            "S3Location": {
                "target": "com.amazonaws.licensemanager#S3Location",
                "traits": {
                    "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
                }
            },
            "CreateTime": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Time the report was created.</p>"
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Tags associated with the report generator.</p>"
                }
```

```
}
    },
    "traits": {
        "smithy.api#documentation": "<p>Describe the details of a report generator.</p>"
    }
},
"com.amazonaws.licensemanager#ReportGeneratorList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ReportGenerator"
    }
},
"com.amazonaws.licensemanager#ReportGeneratorName": {
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#ReportType": {
    "type": "enum",
    "members": {
        "LICENSE_CONFIGURATION_SUMMARY_REPORT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "LicenseConfigurationSummaryReport"
            }

},
        "LICENSE_CONFIGURATION_USAGE_REPORT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "LicenseConfigurationUsageReport"
            }
        }
    }
},
"com.amazonaws.licensemanager#ReportTypeList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ReportType"
    }
},
"com.amazonaws.licensemanager#ResourceInventory": {
    "type": "structure",
    "members": {
```

"ResourceId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits":
{
"smithy.api#documentation": " Type of resource. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"Platform": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Platform of the resource. "
}
},
"PlatformVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Platform version of the resource in the inventory. "
}
},
"ResourceOwningAccountId":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the account that owns the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about a resource. "
}
},
"com.amazonaws.licensemanager#ResourceInventoryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ResourceInventory"
}

```
},
"com.amazonaws.licensemanager#ResourceLimitExceededException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "ResourceLimitExceeded",

         "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>Your resource limits have been exceeded.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceNotFoundException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "InvalidResource.NotFound",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The resource cannot be found.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceType": {
    "type": "enum",
     "members": {
        "EC2_INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_INSTANCE"
            }
        },
        "EC2_HOST": {
            "target": "smithy.api#Unit",
            "traits": {
```

"smithy.api#enumValue": "EC2_HOST"
}
},
"EC2_AMI": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "EC2_AMI"
}
},
"RDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "RDS"
}
},
"SYSTEMS_MANAGER_MANAGED_INSTANCE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
}
}
}
},
"com.amazonaws.licensemanager#S3Location": {
"type": "structure",
"members": {
"bucket": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the S3 bucket reports are published to. "
}
},
"keyPrefix": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Prefix of the S3 bucket reports are published to. "
}
}
},
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"com.amazonaws.licensemanager#ServerInternalException": {
"type": "structure",
"members": {
"Message": {

"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InternalError",
"httpResponseCode": 500
},
"smithy.api#documentation": " The server experienced an internal error. Try again. ",
"smithy.api#error": "server",
"smithy.api#httpError": 500
}
},
"com.amazonaws.licensemanager#SignedToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 4096
}
}
},
"com.amazonaws.licensemanager#StatusReasonMessage": {
"type": "string",
"traits":
{
"smithy.api#length": {
"min": 0,
"max": 400
},
"smithy.api#pattern": "^[\\s\\S]+$"
}
},
"com.amazonaws.licensemanager#String": {
"type": "string"
},
"com.amazonaws.licensemanager#StringList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#String"
}
},
"com.amazonaws.licensemanager#Tag": {
"type": "structure",
"members": {
"Key": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Tag key. "

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            }
          },
          "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation":
"<p>Tag value.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
      },
      "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#String"
        }
      },
      "com.amazonaws.licensemanager#TagList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#Tag"
        }
      },
      "com.amazonaws.licensemanager#TagResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#TagResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#TagResourceResponse"
        },
        "errors": [
          {
            "target":
"com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
```

```
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits":
 {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>One or more tags.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#TagResourceResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#TokenData": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
```

"TokenType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Type of token generated. The supported value is <code>REFRESH_TOKEN</code>. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"ExpirationTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Token expiration time, in ISO8601-UTC format. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller. "
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the roles included in the token. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token status. The possible values are <code>AVAILABLE</code> and <code>DELETED</code>. "
}
}
},
"traits": {

"smithy.api#documentation": " Describes a token. "
}
},
"com.amazonaws.licensemanager#TokenList": {
"type": "list",

```
        "member": {
            "target": "com.amazonaws.licensemanager#TokenData"
        }
    },
    "com.amazonaws.licensemanager#TokenString": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 4096
            },
            "smithy.api#pattern": "^\\S+$"
        }
    },
    "com.amazonaws.licensemanager#TokenType": {
        "type": "enum",
        "members": {
            "REFRESH_TOKEN": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "REFRESH_TOKEN"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException":
{
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The digital signature method is unsupported. Try your request
again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#UntagResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UntagResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UntagResourceResponse"
        },
```

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Removes the specified tags from the specified license configuration. "
}
},
"com.amazonaws.licensemanager#UntagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"TagKeys": {
"target": "com.amazonaws.licensemanager#TagKeyList",
"traits": {
"smithy.api#documentation": " Keys identifying the tags to remove. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UntagResourceResponse": {
"type": "structure",
"members": {},

"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Modifies the attributes of an existing license configuration. "
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},

"LicenseConfigurationStatus": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
"traits": {
"smithy.api#documentation": " New status of the license configuration. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {

"smithy.api#documentation": " New license rule. The only rule that you can add after you create a license\n configuration is licenseAffinityToHost. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " New number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " New hard limit of the number of available licenses. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New description of the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " New product information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",

"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
}
},
"traits":
{
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},

```
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates a report generator.</p>\n        <p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to update.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportGeneratorName": {
                "target": "com.amazonaws.licensemanager#ReportGeneratorName",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the report generator.</p>",
                    "smithy.api#required": {}
                }
            },
            "Type": {
                "target": "com.amazonaws.licensemanager#ReportTypeList",
                "traits": {
                    "smithy.api#documentation": "<p>Type of reports to generate. The following report types are supported:</p>\n        <ul>\n            <li>\n                <p>License configuration report - Reports the number and details of consumed licenses for a license configuration.</p>\n            </li>\n            <li>\n                <p>Resource report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n            </li>\n        </ul>",
                    "smithy.api#required": {}
                }
            },
            "ReportContext": {
                "target": "com.amazonaws.licensemanager#ReportContext",
                "traits": {
                    "smithy.api#documentation": "<p>The report context.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportFrequency": {
                "target": "com.amazonaws.licensemanager#ReportFrequency",
```

"traits":
{
"smithy.api#documentation": " Frequency by which reports are generated. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse":
{
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

```
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },

            {
                "target": "com.amazonaws.licensemanager#InvalidResourceStateException"
            },
            {
                "target": "com.amazonaws.licensemanager#LicenseUsageException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds or removes the specified license configurations for the specified
Amazon Web Services resource.</p>\n        <p>You can update the license specifications of AMIs, instances, and
hosts.\n        You cannot update the license specifications for launch templates and CloudFormation templates, \n
  as they send license configurations to the operation that creates the resource.</p>"
        }
    },

    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon Web Services
resource.</p>",
                    "smithy.api#required": {}
                }
            },
            "AddLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
                }
            },
            "RemoveLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation":
 "<p>ARNs of the license configurations to remove.</p>"
                }
```

```
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
    "type": "structure",
    "members": {},
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#UpdateServiceSettings": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
         },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Updates License Manager settings for the current Region.</p>"
    }
},
"com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
    "type": "structure",
    "members": {
        "S3BucketArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon S3 bucket where the License
Manager information is stored. "
}
},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {
"smithy.api#documentation": " Enables integration with Organizations for cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Activates cross-account discovery. "

}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UsageOperation": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
}
}
},
"com.amazonaws.licensemanager#ValidationException": {

```
            "type": "structure",
            "members": {
                "Message": {
                    "target": "com.amazonaws.licensemanager#Message"
                }
            },
            "traits": {
                "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",

        "smithy.api#error": "client",
                "smithy.api#httpError": 400
            }
        }
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {
```

```
 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the license.
 //
 // This member is required.
 SourceVersion
 *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err !=
 nil {
  return err
 }
```

```
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = addClientRequestID(stack); err != nil {
  return err
 }
 if err = addComputeContentLength(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = addComputePayloadSHA256(stack); err != nil {
  return err
 }
 if err = addRetry(stack, options); err != nil {
  return err
 }
 if err = addRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = addRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack);
 err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "DeleteLicense",
 }
}
```

1.6077 cgroups 3.0.2

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1.6078 go-kmsg-parser 2.0.0+incompatible

1.6078.1 Available under license :

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1.6079 google-cloud-go-logging 1.9.0

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
```

```
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
```

```
  }),
 },
 GetIamPolicy:
[]gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
  gax.WithRetry(func() gax.Retryer {
   return gax.OnHTTPCodes(gax.Backoff{
    Initial:    100 * time.Millisecond,
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 Insert: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 List: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
  gax.WithRetry(func() gax.Retryer {
   return gax.OnHTTPCodes(gax.Backoff{
    Initial:    100 * time.Millisecond,
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 SetIamPolicy: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 TestIamPermissions: []gax.CallOption{
  gax.WithTimeout(600000
* time.Millisecond),
 },
}
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
```

```
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
```

creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
 for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
 list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use

```
 only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
```

```
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{"x-goog-api-client", gax.XGoogHeader(kv...)}
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns
 nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}
```

```
// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds
 = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }
```

```
 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil
{
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx,
 hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
```

```
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for
 a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by
third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())
```

```
 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds
 = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
```

```
  return err
 }

 return
nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v",
 "project", url.QueryEscape(req.GetProject()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
```

```
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return
err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating

```
Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm
 := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

  params := url.Values{}
  if req != nil && req.Filter != nil {
   params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
  }
  if req != nil && req.MaxResults != nil {
   params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
  }
  if req != nil && req.OrderBy != nil {
   params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
  }
  if req !=
 nil && req.PageToken != nil {
   params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
  }
  if req != nil && req.ReturnPartialSuccess != nil {
   params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
  }

  baseUrl.RawQuery = params.Encode()

  // Build HTTP headers from client and context metadata.
  hds := append(c.xGoogHeaders, "Content-Type", "application/json")
  headers := gax.BuildHeaders(ctx, hds...)
  e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
   if settings.Path != "" {
```

```
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return
err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
```

```
 it.pageInfo.Token = req.GetPageToken()

 return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption)
 (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e
 := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers
```

```
 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx
 context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
```

```
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
```

```
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
)

var
 newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
 Get              []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
 return &LicenseCodesCallOptions{
```

```
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
 }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient
 interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseCodesClient

 // The call options for this service.
 CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient)
```

```
 Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode,
 error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licenseCodesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string
```

```
 // Points back to the CallOptions field of the containing LicenseCodesClient
 CallOptions **LicenseCodesCallOptions
}

// NewLicenseCodesRESTClient
 creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
 clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicenseCodesRESTCallOptions()
 c := &licenseCodesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{"x-goog-api-client", gax.XGoogHeader(kv...)}
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
```

```
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Get return a specified license code. License codes are
 mirrored across all projects that have permissions to read the License Code. Caution This resource is intended for
use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm
 := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.LicenseCode{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
```

```
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners
 who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}
```

```
 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
```

```
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

```
func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
```

```
 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp
 }
}

func ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range
 values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
```

```
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown
 in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
```

```
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.31.0
//  protoc        v4.23.2
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
```

```
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
```

```
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":            1,
  "WRITER":           2,
  "READER":           3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}
```

```
// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //     tunedModels/{tuned_model}/permissions/{permission}
 //     corpora/{corpus}/permissions/{permission}
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
 }

func (x *Permission) Reset() {
```

```
 *x = Permission{}
 if protoimpl.UnsafeEnabled {
  mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission)
 ProtoReflect() protoreflect.Message {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
```

```
 return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role
 != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
 0x19, 0x67, 0x6f,
 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
 0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
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 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
```

```
 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
 0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
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 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
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 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
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 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
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 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
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 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
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 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
```

```
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
 = []interface{}{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init()
 }
func file_google_ai_generativelanguage_v1beta_permission_proto_init() {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 if !protoimpl.UnsafeEnabled {
  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v interface{}, i int)
interface{} {
   switch v := v.(*Permission); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []interface{}{}
 type x struct{}
 out := protoimpl.TypeBuilder{
```

```
File: protoimpl.DescBuilder{
 GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
 RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
 NumEnums:      2,
 NumMessages:   1,
 NumExtensions: 0,
 NumServices:   0,
},
GoTypes:          file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
DependencyIndexes:
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
EnumInfos:         file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1beta_permission_proto = out.File
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
```

1.6080 go-conntrack 0.0.0-20190716064945-2f068394615f

1.6080.1 Available under license :

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1.6081 aws-sdk-go-v2-credentials 1.17.0

1.6081.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 *
 // ProductSKU
 //
 // * Status
 //
 // * Fingerprint
 //
 // * IssuerName
```

```
 //
 // * Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
 nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
```

```
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListReceivedLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
```

```
// algorithm PS384. For more information, see RFC 7518 Digital Signature with
// RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
//
// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed
[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
```

```
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
```

```
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err
 = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
```

```
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
```

```
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil
 {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckInLicense",
 }
}
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
```

```
      run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
    - name: Checkout scancode
      uses: actions/checkout@v2
      with:
        repository: nexB/scancode-toolkit
        path: scancode-toolkit
        fetch-depth: 1
    - name: Set up Python ${{ matrix.python-version }}
       uses: actions/setup-python@v2
      with:
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
```

```
 return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional configuration
 // for workloads running with continuous connectivity. Choose a borrow
 // configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //
 // This member is required.
 LicenseName *string
```

```
 // Product name.
 //
 // This member is required.
 ProductName *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity *types.DatetimeRange

 //
 Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
```

```
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return
 err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
```

```
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}
```

```
func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "DisassociateLicense",
 }
}
{
  "smithy": "1.0",
  "shapes": {
    "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException": {
      "type": "structure",
      "members": {
        "message": {
          "target": "smithy.api#String"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>You don't have sufficient access to perform this action.</p>",
        "smithy.api#error": "client"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
      "type": "structure",
      "members": {
        "DirectoryId": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The directory ID for an Active Directory identity provider.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation":
 "<p>Details about an Active Directory identity provider.</p>"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUser": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
      },
      "errors": [
```

```
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Associates the user to an EC2 instance to utilize user-based
subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/AssociateUser"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest": {
        "type": "structure",
        "members":
{
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
```

subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " The identity provider of the user. ",
"smithy.api#required": {}
}

},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse": {
"type": "structure",
"members": {
"InstanceUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#BoxInteger": {
"type": "integer",
"traits": {
"smithy.api#box": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ConflictException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request couldn't be completed because it conflicted with the current state of the resource. ",

"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deregisters
the identity provider from providing user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/DeregisterIdentityProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest": {
"type": "structure",
"members": {

"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {

"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the results of an identity provider operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUser": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},

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            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Disassociates the user from an EC2 instance providing user-based
subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/DisassociateUser"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required":
 {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
```

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            }
        },
        "Domain": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The domain name of the user.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse": {
    "type": "structure",
    "members": {
        "InstanceUserSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
            "traits": {
                "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#Filter": {
    "type": "structure",
    "members": {
        "Attribute": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The name of an attribute to use as a filter.</p>"
            }
        },
        "Operation": {

 "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The type of search (For example, eq, geq, leq)</p>"
            }
        },
        "Value": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>Value of the filter.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>A filter name and value pair that is used to return more specific results
from a\n      describe operation. Filters can be used to match a set of resources by specific criteria,\n      such as
```

tags, attributes, or IDs. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Filter"

}
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
"type": "union",
"members": {
"ActiveDirectoryIdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
"traits": {
"smithy.api#documentation": " An object that details an Active Directory identity provider. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about an identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation":
" An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of an identity provider. ",
"smithy.api#required": {}
}

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            },
            "FailureMessage": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The failure message associated with
an identity provider.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes an identity provider.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary": {
        "type": "structure",
        "members": {
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "Status": {

"target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status of an EC2 instance resource.</p>",
                    "smithy.api#required": {}
                }
            },
            "Products": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>A list of provided user-based subscription products.</p>",
                    "smithy.api#required": {}
                }
            },
            "LastStatusCheckDate": {
                "target": "smithy.api#String",
                "traits": {
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"smithy.api#documentation": " The date of the last status check. "
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {

"smithy.api#documentation": " The status message for an EC2 instance. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes an EC2 instance providing user-based subscriptions. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}

},
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Status": {

"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of a user associated with an EC2 instance. ",
"smithy.api#required":
{}
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for users of an EC2 instance. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"AssociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was associated with an EC2 instance. "
}
},
"DisassociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation":
" The date a user was disassociated from an EC2 instance. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes users of an EC2 instance providing user-based
subscriptions. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InternalServerException": {
"type": "structure",
"members": {
"message": {

"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " An exception occurred with the service. ",
"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
"type": "service",
"traits": {
"aws.api#service": {
"sdkId": "License Manager User Subscriptions",
"arnNamespace": "license-manager-user-subscriptions",
"cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
},
"aws.auth#sigv4": {
"name": "license-manager-user-subscriptions"
},
"aws.protocols#restJson1": {},
"smithy.api#cors": {
"additionalAllowedHeaders": [
"*",
"content-type",
"x-amz-content-sha256",
"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",

"x-api-key",
"authorization",
"x-amz-date",
"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"
]
},
"smithy.api#documentation": " With License Manager, you can create user-based subscriptions to utilize licensed software with a per user subscription fee on Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager User Subscriptions"
},

"version": "2018-05-10",
"operations": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUser"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"

},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
}
]
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{

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            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
         {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the identity providers for user-based subscriptions.</p>",
        "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/identity-provider/ListIdentityProviders"
         },
        "smithy.api#paginated": {
            "inputToken": "NextToken",
            "outputToken": "NextToken",
            "pageSize": "MaxResults",
            "items": "IdentityProviderSummaries"
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest": {
    "type": "structure",
    "members": {
        "MaxResults": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
```

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        }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse": {
        "type": "structure",
        "members": {
          "IdentityProviderSummaries": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the list identity providers operation.</p>",
              "smithy.api#required": {}
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListInstances": {
        "type": "operation",
        "input":
{
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
          },
          {
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"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the EC2 instances providing user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/instance/ListInstances"
},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "InstanceSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest": {
"type": "structure",
"members": {

"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse":

```
{
        "type": "structure",
        "members": {
            "InstanceSummaries": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the list instances operation.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest"
        },
        "output": {

        "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
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"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the user-based subscription products available from an identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/ListProductSubscriptions"
},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "ProductUserSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest": {
"type": "structure",
"members": {
"Product": {
"target": "smithy.api#String",
"traits":
{
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "

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            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse": {
    "type": "structure",
    "members": {
        "ProductUserSummaries": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList",
            "traits": {
                "smithy.api#documentation": "<p>Metadata that describes the list product subscriptions
operation.</p>"
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
         },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
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            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists user associations for an identity provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/ListUserAssociations"
             },
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "InstanceUserSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest": {
        "type": "structure",
        "members": {
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation":
 "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
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"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits":
{
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse": {
"type": "structure",
"members": {
"InstanceUserSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list user association operation. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary":
{
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider of the user. ",
"smithy.api#required": {}
}
},
"Product": {

"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",

"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of a product for a user. ",
"smithy.api#required": {}
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for a product for a user. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"SubscriptionStartDate": {
"target": "smithy.api#String",
"traits":
{
"smithy.api#documentation": " The start date of a subscription. "
}
},
"SubscriptionEndDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The end date of a subscription. "
}
}
},
"traits": {

"smithy.api#documentation": " The summary of the user-based subscription products for a user. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider": {
"type": "operation",
"input": {
"target":
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target":
"com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Registers an identity provider for user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/RegisterIdentityProvider"

```
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest": {
        "type": "structure",
        "members": {
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation":
 "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
        "type": "structure",
        "members": {
            "IdentityProviderSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the results of an identity provider
operation.</p>",

    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The resource couldn't be found.</p>",
            "smithy.api#error": "client",
```

```
            "smithy.api#httpError": 404
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request failed because a service quota is exceeded.</p>",
            "smithy.api#error":
"client"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
```

"smithy.api#documentation": " Starts a product subscription for a user with the specified identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/StartProductSubscription"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
"type": "structure",
"members": {
"Username": {

"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider of the user. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Domain":
{
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse": {
"type": "structure",
"members": {
"ProductUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",

"traits": {
"smithy.api#documentation": " Metadata that describes the start product subscription operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Stops a product subscription for a user with the specified identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/StopProductSubscription"
}
}

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
      "type": "structure",
      "members": {
        "Username": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
            "smithy.api#required":
{}
          }
        },
        "IdentityProvider": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
          "traits": {
            "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
            "smithy.api#required": {}
          }
        },
        "Product": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
            "smithy.api#required": {}
          }
        },
        "Domain": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The domain name of the user.</p>"
          }
        }
      }

    },
    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse": {
      "type": "structure",
      "members": {
        "ProductUserSummary": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
          "traits": {
            "smithy.api#documentation": "<p>Metadata that describes the start product subscription
operation.</p>",
            "smithy.api#required": {}
          }
        }
      }
    },
```

"com.amazonaws.licensemanagerusersubscriptions#StringList": {
"type": "list",
"member": {
"target": "smithy.api#String"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ThrottlingException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}

},
"traits": {
"smithy.api#documentation": " The request was denied because of request throttling. Retry the request. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ValidationException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " A parameter is not valid. ",
"smithy.api#error": "client"
}
}
}
}

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
```

```
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
```

```
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if
err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "GetLicense",
 }
}
```

AWS SDK for Go

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```
{
   "smithy": "1.0",
   "metadata": {
       "suppressions": [
           {
               "id": "HttpMethodSemantics",
               "namespace": "*"
           },
           {
               "id": "HttpResponseCodeSemantics",
               "namespace": "*"
           },
           {
               "id": "PaginatedTrait",
               "namespace": "*"
           },
           {
               "id": "HttpHeaderTrait",
               "namespace": "*"
           },
           {
               "id": "HttpUriConflict",
               "namespace": "*"
           },
           {
```

```
            "id": "Service",
            "namespace": "*"
        }
    ]
},
"shapes": {
    "com.amazonaws.licensemanager#AWSLicenseManager": {
        "type": "service",
        "version": "2018-08-01",
        "operations": [
            {
                "target": "com.amazonaws.licensemanager#AcceptGrant"
            },

 {
                "target": "com.amazonaws.licensemanager#CheckInLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CheckoutLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateGrant"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateGrantVersion"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
             },
            {
                "target": "com.amazonaws.licensemanager#CreateLicenseVersion"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateToken"
            },
            {
```

"target": "com.amazonaws.licensemanager#DeleteGrant"
},
{
"target": "com.amazonaws.licensemanager#DeleteLicense"
},
{
"target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#DeleteToken"
},
{
"target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

},
{
"target": "com.amazonaws.licensemanager#GetAccessToken"
},
{
"target": "com.amazonaws.licensemanager#GetGrant"
},
{
"target": "com.amazonaws.licensemanager#GetLicense"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseUsage"
},
{
"target": "com.amazonaws.licensemanager#GetServiceSettings"
},
{
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#ListDistributedGrants"
},

{
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConfigurations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
},
{
"target": "com.amazonaws.licensemanager#ListLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
},
{

"target": "com.amazonaws.licensemanager#ListLicenseVersions"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListResourceInventory"
},
{
"target": "com.amazonaws.licensemanager#ListTagsForResource"
},
{
"target": "com.amazonaws.licensemanager#ListTokens"
},
{
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#RejectGrant"
},
{
"target": "com.amazonaws.licensemanager#TagResource"
},
{
"target": "com.amazonaws.licensemanager#UntagResource"

```
            },
            {
                "target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
            },
            {
                "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
            },
            {
                "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
            },
            {
                "target": "com.amazonaws.licensemanager#UpdateServiceSettings"
            }
        ],
        "traits": {
            "aws.api#service": {
                "sdkId": "License Manager",
                "arnNamespace": "license-manager",
                "cloudFormationName": "LicenseManager",
                "cloudTrailEventSource": "licensemanager.amazonaws.com",
                "endpointPrefix":
 "license-manager"
            },
            "aws.auth#sigv4": {
                "name": "license-manager"
            },
            "aws.protocols#awsJson1_1": {},
            "smithy.api#documentation": "<p>License Manager makes it easier to manage licenses from software
vendors across multiple \n        Amazon Web Services accounts and on-premises servers.</p>",
            "smithy.api#title": "AWS License Manager",
            "smithy.api#xmlNamespace": {
                "uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
            }
        }
    },
    "com.amazonaws.licensemanager#AcceptGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#AcceptGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#AcceptGrantResponse"
        },
        "errors": [
            {

           "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Accepts the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantRequest":
{
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
```

"smithy.api#documentation": " Grant
status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
}
},
"com.amazonaws.licensemanager#AccessDeniedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "ServiceAccessDenied",
"httpResponseCode": 401
},
"smithy.api#documentation": " Access to resource denied. ",
"smithy.api#error": "client",
"smithy.api#httpError": 401
}
},
"com.amazonaws.licensemanager#AllowedOperation":
{
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "CreateGrant",
"name": "CREATE_GRANT"
},
{
"value": "CheckoutLicense",
"name": "CHECKOUT_LICENSE"
},
{
"value": "CheckoutBorrowLicense",
"name": "CHECKOUT_BORROW_LICENSE"
},
{
"value": "CheckInLicense",

```
                "name": "CHECK_IN_LICENSE"
            },
            {
                "value": "ExtendConsumptionLicense",
                "name": "EXTEND_CONSUMPTION_LICENSE"
            },
            {
                "value": "ListPurchasedLicenses",
                "name": "LIST_PURCHASED_LICENSES"
            },
            {
                "value": "CreateToken",
                "name": "CREATE_TOKEN"
            }
        ]
    }
},
"com.amazonaws.licensemanager#AllowedOperationList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#AllowedOperation"
    },
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max": 7
        }
    }
},
"com.amazonaws.licensemanager#Arn": {
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 2048
        },
        "smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
    }
},
"com.amazonaws.licensemanager#ArnList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Arn"
    }
},
"com.amazonaws.licensemanager#AuthorizationException": {
    "type": "structure",
```

"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "AuthorizationFailure",
"httpResponseCode": 403
},
"smithy.api#documentation": " The Amazon Web Services user account does not have permission to perform the action. Check the IAM\n policy associated with this account. ",
"smithy.api#error": "client",
"smithy.api#httpError": 403
}
},
"com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
"type": "structure",
"members": {
"LastRunTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time that automated discovery last ran. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes automated discovery. "
}
},
"com.amazonaws.licensemanager#Boolean": {
"type": "boolean"
},
"com.amazonaws.licensemanager#BorrowConfiguration": {
"type": "structure",
"members": {
"AllowEarlyCheckIn": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether early check-ins are allowed. ",
"smithy.api#required": {}
}
},
"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the borrow configuration, in minutes. ",

```
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
      }
    },
    "com.amazonaws.licensemanager#BoxBoolean": {
      "type": "boolean",
      "traits": {
        "smithy.api#box": {}
      }
    },
    "com.amazonaws.licensemanager#BoxInteger": {
      "type": "integer",
      "traits": {
        "smithy.api#box": {}
      }
    },
    "com.amazonaws.licensemanager#BoxLong": {

   "type": "long",
      "traits": {
        "smithy.api#box": {}
      }
    },
    "com.amazonaws.licensemanager#CheckInLicense": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#ConflictException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
```

```
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks in the specified license. Check in a license when it is no longer
in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",

        "smithy.api#required": {}
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License beneficiary.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
```

```
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },

{
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#RedirectException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {

           "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
        }
      },
      "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
        "type": "structure",
        "members": {
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
```

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The license must use the borrow consumption configuration. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " License entitlements. Partial checkouts are not supported. ",
"smithy.api#required": {}
}
},
"DigitalSignatureMethod": {
"target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
"traits": {
"smithy.api#documentation": " Digital signature method. The possible value is JSON Web Signature (JWS) algorithm PS384.\n For more information, see RFC 7518 Digital Signature with RSASSA-PSS. ",
"smithy.api#required": {}
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about constraints. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
"type": "structure",
"members": {
"LicenseArn": {

"target": "com.amazonaws.licensemanager#Arn",

"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},
"EntitlementsAllowed": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " Allowed license entitlements. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"SignedToken": {

"target": "com.amazonaws.licensemanager#SignedToken",
"traits": {
"smithy.api#documentation": " Signed token. "
}
},
"IssuedAt": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout expires. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation":

" Information about constraints. "
}
}
}
},
"com.amazonaws.licensemanager#CheckoutLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks out the specified license. "

```
        }
    },
    "com.amazonaws.licensemanager#CheckoutLicenseRequest": {
        "type": "structure",
        "members": {
            "ProductSKU":
{
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product SKU.</p>",
                    "smithy.api#required": {}
                }
            },
            "CheckoutType": {
                "target": "com.amazonaws.licensemanager#CheckoutType",
                "traits": {
                    "smithy.api#documentation": "<p>Checkout type.</p>",
                    "smithy.api#required": {}
                }
            },
            "KeyFingerprint": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Key fingerprint identifying the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                 "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>",
                    "smithy.api#required": {}
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License beneficiary.</p>"
                }
            },
```

```
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",

    "traits": {
                    "smithy.api#documentation": "<p>Node ID.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CheckoutLicenseResponse": {
        "type": "structure",
        "members": {
            "CheckoutType": {
                "target": "com.amazonaws.licensemanager#CheckoutType",
                "traits": {
                    "smithy.api#documentation": "<p>Checkout type.</p>"
                }
            },
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>"
                }
            },
            "EntitlementsAllowed": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation":
"<p>Allowed license entitlements.</p>"
                }
            },
            "SignedToken": {
                "target": "com.amazonaws.licensemanager#SignedToken",
                "traits": {
                    "smithy.api#documentation": "<p>Signed token.</p>"
                }
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Node ID.</p>"
                }
            },
            "IssuedAt": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
                }
```

```
            },
            "Expiration": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",

             "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the checkout license.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CheckoutType": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "PROVISIONAL",
                    "name": "PROVISIONAL"
                },
                {
                    "value": "PERPETUAL",
                    "name": "PERPETUAL"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#ClientRequestToken":
{
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 1,
                "max": 36
            }
        }
    },
    "com.amazonaws.licensemanager#ClientToken": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 2048
            },
```

"smithy.api#pattern": "^\\S+$"
}
},
"com.amazonaws.licensemanager#ConflictException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "ConflictException",
"httpResponseCode": 409
},
"smithy.api#documentation": " There
was a conflict processing the request. Try your request again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 409
}
},
"com.amazonaws.licensemanager#ConsumedLicenseSummary": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Resource type of the resource consuming a license. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about license consumption. "
}
},
"com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
}
},
"com.amazonaws.licensemanager#ConsumptionConfiguration": {

```
    "type": "structure",
    "members": {
      "RenewType": {
        "target": "com.amazonaws.licensemanager#RenewType",
        "traits": {
          "smithy.api#documentation": "<p>Renewal frequency.</p>"
        }
      },
      "ProvisionalConfiguration": {
        "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
        "traits": {
          "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
        }
      },
      "BorrowConfiguration": {

        "target": "com.amazonaws.licensemanager#BorrowConfiguration",
        "traits": {
          "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
    }
  },
  "com.amazonaws.licensemanager#CreateGrant": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#CreateGrantRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#CreateGrantResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },

   {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
```

```
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a grant for the specified license. A grant shares the use of
license entitlements with specific Amazon Web Services accounts.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantRequest": {
        "type": "structure",
        "members": {

  "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },

        "Principals": {
                "target": "com.amazonaws.licensemanager#PrincipalArnList",
                "traits": {
                    "smithy.api#documentation": "<p>The grant principals.</p>",
                    "smithy.api#required": {}
                }
```

```
            },
            "HomeRegion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Home Region of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "AllowedOperations": {
                "target": "com.amazonaws.licensemanager#AllowedOperationList",
                "traits": {
                    "smithy.api#documentation": "<p>Allowed operations for the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateGrantResponse":
{
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersion": {
        "type": "operation",
        "input": {

  "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
        },
        "output": {
```

"target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a new version of the specified grant. "
}
},
"com.amazonaws.licensemanager#CreateGrantVersionRequest": {
"type": "structure",
"members": {
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},

```
            "GrantName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>"
                }
            },
            "AllowedOperations": {
                "target": "com.amazonaws.licensemanager#AllowedOperationList",
                "traits": {
                    "smithy.api#documentation": "<p>Allowed operations for the grant.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "StatusReason": {
                "target": "com.amazonaws.licensemanager#StatusReasonMessage",

           "traits": {
                    "smithy.api#documentation": "<p>Grant status reason.</p>"
                }
            },
            "SourceVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the grant.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersionResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant
status.</p>"
                }
```

```
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>New version of the grant.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#CreateLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a license.</p>"
    }
},
"com.amazonaws.licensemanager#CreateLicenseConfiguration": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
```

```
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license configuration.</p> \n        <p>A license configuration is an abstraction of a customer license
 agreement that can be\n        consumed and enforced by License Manager. Components include specifications for the license\n        type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), license affinity  to host (how long a \n        license must be associated with a host), and the number of licenses purchased and used.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Description of the license configuration.</p>"
                }
```

```
            },
            "LicenseCountingType": {
                "target": "com.amazonaws.licensemanager#LicenseCountingType",
                "traits": {
                    "smithy.api#documentation": "<p>Dimension used to track the license inventory.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
                }
            },
            "LicenseCountHardLimit": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {

        "smithy.api#documentation": "<p>Indicates whether hard or soft license enforcement is used. Exceeding a hard limit\n        blocks the launch of new instances.</p>"
                }
            },
            "LicenseRules": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules \n        vary by dimension, as follows.</p>\n <ul>\n        <li>\n        <p>\n        <code>Cores</code> dimension: <code>allowedTenancy</code> |\n        <code>licenseAffinityToHost</code> |\n        <code>maximumCores</code> | <code>minimumCores</code>\n        </p>\n        </li>\n        <li>\n        <p>\n <code>Instances</code> dimension: <code>allowedTenancy</code> | \n        <code>maximumCores</code> | <code>minimumCores</code> |\n        <code>maximumSockets</code> | <code>minimumSockets</code> |\n        <code>maximumVcpus</code> | <code>minimumVcpus</code>\n        </p>\n        </li>\n <li>\n        <p>\n        <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n <code>licenseAffinityToHost</code> |\n        <code>maximumSockets</code> | <code>minimumSockets</code>\n        </p>\n        </li>\n        <li>\n        <p>\n <code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n <code>honorVcpuOptimization</code> | \n        <code>maximumVcpus</code> | <code>minimumVcpus</code>\n        </p>\n        </li>\n        </ul>\n        <p>The unit for <code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n        values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n        <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n        <code>True</code> and <code>False</code>.</p>"
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
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"smithy.api#documentation": " Tags to add to the license configuration. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits":
{
"smithy.api#documentation": " Product information. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},

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            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new license conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest":
{
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource you are converting
the license type for.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting
from. \n        For the structure of the source license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the AWS
CLI</a> in the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            },
            "DestinationLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting to.
For the structure of the destination license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the AWS
CLI</a> in the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
```

```
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
    "type": "structure",
    "members": {
        "LicenseConversionTaskId": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
            "traits": {
                "smithy.api#documentation": "<p>The ID of the created license type conversion task.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a report generator.</p>"
    }
```

```
    },
    "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
      "type": "structure",
      "members": {
        "ReportGeneratorName": {
          "target":
 "com.amazonaws.licensemanager#ReportGeneratorName",
          "traits": {
            "smithy.api#documentation": "<p>Name of the report generator.</p>",
            "smithy.api#required": {}
          }
        },
        "Type": {
          "target": "com.amazonaws.licensemanager#ReportTypeList",
          "traits": {
            "smithy.api#documentation": "<p>Type of reports to generate. The following report types an be
generated:</p>\n        <ul>\n            <li>\n                <p>License configuration report - Reports the number and
details of consumed licenses for a license configuration.</p>\n            </li>\n            <li>\n                <p>Resource
report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n            </li>\n
</ul>",
            "smithy.api#required": {}
          }
        },

      "ReportContext": {
          "target": "com.amazonaws.licensemanager#ReportContext",
          "traits": {
            "smithy.api#documentation": "<p>Defines the type of license configuration the report generator
tracks.</p>",
            "smithy.api#required": {}
          }
        },
        "ReportFrequency": {
          "target": "com.amazonaws.licensemanager#ReportFrequency",
          "traits": {
            "smithy.api#documentation": "<p>Frequency by which reports are generated.  Reports can be
generated daily, monthly, or weekly.</p>",
            "smithy.api#required": {}
          }
        },
        "ClientToken": {
          "target": "com.amazonaws.licensemanager#ClientRequestToken",
          "traits": {
            "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide
 to ensure the idempotency of the request.</p>",
            "smithy.api#required": {}
          }
        },
```

"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the report generator. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits":
{
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the new report generator. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseRequest": {
"type": "structure",
"members": {
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. ",
"smithy.api#required": {}
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. ",
"smithy.api#required": {}
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. ",

"smithy.api#required": {}
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#Issuer",
"traits": {
"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region for the license. ",
"smithy.api#required": {}
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation":
" Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {

"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}

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            },
            "LicenseMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                    "smithy.api#required": {}

    }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseStatus",
                "traits": {
                    "smithy.api#documentation": "<p>License status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License version.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersion":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
        },
        "output": {
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        "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
            }
        },
        "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License name.</p>",
                "smithy.api#required": {}
            }
```

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        },
        "ProductName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product name.</p>",
            "smithy.api#required": {}
          }
        },
        "Issuer": {
          "target": "com.amazonaws.licensemanager#Issuer",
          "traits": {
            "smithy.api#documentation": "<p>License issuer.</p>",
            "smithy.api#required": {}
          }
        },
        "HomeRegion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation":
 "<p>Home Region of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "Validity": {
          "target": "com.amazonaws.licensemanager#DatetimeRange",
          "traits": {
            "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
            "smithy.api#required": {}
          }
        },
        "LicenseMetadata": {
          "target": "com.amazonaws.licensemanager#MetadataList",
          "traits": {
            "smithy.api#documentation": "<p>Information about the license.</p>"
          }
        },
        "Entitlements": {
          "target": "com.amazonaws.licensemanager#EntitlementList",
          "traits": {
            "smithy.api#documentation": "<p>License entitlements.</p>",
             "smithy.api#required": {}
          }
        },
        "ConsumptionConfiguration": {
          "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
          "traits": {
            "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional
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configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target":
"com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. "
}
},

"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New version of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {

"smithy.api#documentation": " License status. "
}
}
}
},
"com.amazonaws.licensemanager#CreateToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a long-lived token. \n A refresh token is a JWT token used to get an access token. With an access token,\n you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n call License Manager to manage the specified license. "
}
},
"com.amazonaws.licensemanager#CreateTokenRequest": {
"type": "structure",

"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n JWT token. ",
"smithy.api#required": {}
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n License Manager does not check whether the roles are in use. "
}
},
"ExpirationInDays": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Token expiration, in days, counted from token creation. The default is 365 days. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller to be included in the JWT token. The data is mapped\n to the amr claim of the JWT token. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Idempotency token, valid for 10 minutes. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CreateTokenResponse": {
"type": "structure",
"members": {
"TokenId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token ID. "
}

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            },
            "TokenType": {
                "target": "com.amazonaws.licensemanager#TokenType",
                "traits": {
                    "smithy.api#documentation": "<p>Token type.</p>"
                }
            },
            "Token": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Refresh token,
encoded as a JWT token.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#DateTime": {
        "type": "timestamp"
    },
    "com.amazonaws.licensemanager#DatetimeRange": {
        "type": "structure",
        "members": {
            "Begin": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Start of the time range.</p>",
                    "smithy.api#required": {}
                }
            },
            "End": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>End of the time range.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC
format.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
```

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    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

  },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Deletes the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#DeleteGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "StatusReason": {
            "target": "com.amazonaws.licensemanager#StatusReasonMessage",
            "traits": {

   "smithy.api#documentation": "<p>The Status reason for the delete request.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
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            "traits": {
                "smithy.api#documentation": "<p>Current version of the grant.</p>",
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanager#DeleteGrantResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation":
"<p>Grant status.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#DeleteLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
```

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        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Deletes the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Deletes the specified license configuration.</p> \n        <p>You cannot
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delete a license configuration
that is in use. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the license configuration. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{

"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified report generator. \n This action deletes the report generator, which stops it from generating future reports.\n The action cannot be reversed. It has no effect on the previous reports from this generator. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to be deleted. ",
"smithy.api#required": {}
}
}
}
},

"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#DeleteLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. ",
"smithy.api#required": {}
}
}

```
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseResponse":
{
        "type": "structure",
        "members": {
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
                "traits": {
                    "smithy.api#documentation": "<p>License status.</p>"
                }
            },
            "DeletionDate": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date when the license is deleted.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#DeleteToken": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteTokenRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteTokenResponse"
        },
        "errors": [
            {

      "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
        }

    },
    "com.amazonaws.licensemanager#DeleteTokenRequest": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#DeleteTokenResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#DigitalSignatureMethod": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "JWT_PS384",
                    "name": "JWT_PS384"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#Entitlement": {
        "type": "structure",

    "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement name.</p>",
                    "smithy.api#required": {}
                }
            },
```

```
        "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement resource. Use only if the unit is None.</p>"
            }
        },
        "MaxCount": {
            "target": "com.amazonaws.licensemanager#Long",
            "traits": {
                "smithy.api#documentation": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
            }
        },
        "Overage": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",

"traits": {
                "smithy.api#documentation": "<p>Indicates whether overages are allowed.</p>"
            }
        },
        "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementUnit",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement unit.</p>",
                "smithy.api#required": {}
            }
        },
        "AllowCheckIn": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Indicates whether check-ins are allowed.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes a resource entitled for use with a license.</p>"
    }
},
"com.amazonaws.licensemanager#EntitlementData": {
    "type": "structure",
     "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement data name.</p>",
                "smithy.api#required": {}
            }
        },
        "Value": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement data value. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementDataUnit",
"traits": {
"smithy.api#documentation": " Entitlement data unit. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Data associated
with an entitlement resource. "
}
},
"com.amazonaws.licensemanager#EntitlementDataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#EntitlementData"
}
},
"com.amazonaws.licensemanager#EntitlementDataUnit": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "Count",
"name": "COUNT"
},
{
"value": "None",
"name": "NONE"
},
{
"value": "Seconds",
"name": "SECONDS"
},
{
"value": "Microseconds",
"name": "MICROSECONDS"
},
{

"value": "Milliseconds",
"name": "MILLISECONDS"

```
},
{
  "value": "Bytes",
  "name": "BYTES"
},
{
  "value": "Kilobytes",
  "name": "KILOBYTES"
},
{
  "value": "Megabytes",
  "name": "MEGABYTES"
},
{
  "value": "Gigabytes",
  "name": "GIGABYTES"
},
{
  "value": "Terabytes",
  "name": "TERABYTES"
},
{
  "value": "Bits",
  "name": "BITS"
},
{
  "value": "Kilobits",
  "name": "KILOBITS"
},
{
  "value": "Megabits",
  "name": "MEGABITS"
},
{
  "value": "Gigabits",
  "name": "GIGABITS"
},
{
  "value": "Terabits",
  "name": "TERABITS"
},
{
  "value": "Percent",
  "name": "PERCENT"
},
{
  "value": "Bytes/Second",
  "name": "BYTES_PER_SECOND"
```

```
            },
            {
              "value": "Kilobytes/Second",
              "name": "KILOBYTES_PER_SECOND"
            },
            {
              "value": "Megabytes/Second",
              "name": "MEGABYTES_PER_SECOND"

},
            {
              "value": "Gigabytes/Second",
              "name": "GIGABYTES_PER_SECOND"
            },
            {
              "value": "Terabytes/Second",
              "name": "TERABYTES_PER_SECOND"
            },
            {
              "value": "Bits/Second",
              "name": "BITS_PER_SECOND"
            },
            {
              "value": "Kilobits/Second",
              "name": "KILOBITS_PER_SECOND"
            },
            {
              "value": "Megabits/Second",
              "name": "MEGABITS_PER_SECOND"
            },
            {
              "value": "Gigabits/Second",
              "name": "GIGABITS_PER_SECOND"
            },
            {
              "value": "Terabits/Second",

  "name": "TERABITS_PER_SECOND"
            },
            {
              "value": "Count/Second",
              "name": "COUNT_PER_SECOND"
            }
          ]
        }
  },
  "com.amazonaws.licensemanager#EntitlementList": {
      "type": "list",
```

```
    "member": {
        "target": "com.amazonaws.licensemanager#Entitlement"
    }
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>The entitlement is not allowed.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#EntitlementUnit": {

 "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "Count",
                "name": "COUNT"
            },
            {
                "value": "None",
                "name": "NONE"
            },
            {
                "value": "Seconds",
                "name": "SECONDS"
            },
            {
                "value": "Microseconds",
                "name": "MICROSECONDS"
            },
            {
                "value": "Milliseconds",
                "name": "MILLISECONDS"
            },
            {
                "value": "Bytes",
                "name": "BYTES"
            },
            {
                "value": "Kilobytes",
```

"name": "KILOBYTES"

},
{
"value": "Megabytes",
"name": "MEGABYTES"
},
{
"value": "Gigabytes",
"name": "GIGABYTES"
},
{
"value": "Terabytes",
"name": "TERABYTES"
},
{
"value": "Bits",
"name": "BITS"
},
{
"value": "Kilobits",
"name": "KILOBITS"
},
{
"value": "Megabits",
"name": "MEGABITS"
},
{
"value": "Gigabits",
"name": "GIGABITS"
},
{
"value": "Terabits",
"name": "TERABITS"
},
{
"value": "Percent",
"name": "PERCENT"
},
{
"value": "Bytes/Second",
"name": "BYTES_PER_SECOND"
},
{
"value": "Kilobytes/Second",
"name": "KILOBYTES_PER_SECOND"
},
{

"value": "Megabytes/Second",
"name": "MEGABYTES_PER_SECOND"
},
{
"value": "Gigabytes/Second",
"name": "GIGABYTES_PER_SECOND"
},
{
"value": "Terabytes/Second",
"name": "TERABYTES_PER_SECOND"
},
{

"value": "Bits/Second",
"name": "BITS_PER_SECOND"
},
{
"value": "Kilobits/Second",
"name": "KILOBITS_PER_SECOND"
},
{
"value": "Megabits/Second",
"name": "MEGABITS_PER_SECOND"
},
{
"value": "Gigabits/Second",
"name": "GIGABITS_PER_SECOND"
},
{
"value": "Terabits/Second",
"name": "TERABITS_PER_SECOND"
},
{
"value": "Count/Second",
"name": "COUNT_PER_SECOND"
}
]
}
},
"com.amazonaws.licensemanager#EntitlementUsage": {
"type": "structure",

"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement usage name. ",
"smithy.api#required": {}

```
            }
        },
        "ConsumedValue": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Resource usage consumed.</p>",
                "smithy.api#required": {}
            }
        },
        "MaxCount": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
            }
        },
        "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
             "traits": {
                "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
    }
},
"com.amazonaws.licensemanager#EntitlementUsageList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#EntitlementUsage"
    }
},
"com.amazonaws.licensemanager#ExtendLicenseConsumption": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
    },
    "errors": [
        {

    "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",
                    "smithy.api#required": {}
                }
            },
            "DryRun": {
                "target": "com.amazonaws.licensemanager#Boolean",
                "traits": {
                    "smithy.api#documentation": "<p>Checks whether you have the required permissions for the action,
without actually making the request. Provides an error response if you do not have the required permissions.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
        "type": "structure",

        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>"
```

```
            }
          },
          "Expiration": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Date and time at which the license consumption expires.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#FailedDependencyException": {
        "type": "structure",
        "members": {
          "Message": {
            "target": "com.amazonaws.licensemanager#Message"
          },
          "ErrorCode": {
            "target": "com.amazonaws.licensemanager#String"
          }
        },

       "traits": {
          "aws.protocols#awsQueryError": {
            "code": "FailedDependency",
            "httpResponseCode": 424
          },
          "smithy.api#documentation": "<p>A dependency required to run the API is missing.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 424
        }
      },
      "com.amazonaws.licensemanager#Filter": {
        "type": "structure",
        "members": {
          "Name": {
            "target": "com.amazonaws.licensemanager#FilterName",
            "traits": {
              "smithy.api#documentation": "<p>Name of the filter. Filter names are case-sensitive.</p>"
            }
          },
          "Values": {
            "target": "com.amazonaws.licensemanager#FilterValues",
            "traits": {
              "smithy.api#documentation": "<p>Filter values. Filter
values are case-sensitive.</p>"
            }
          }
        },
```

"traits": {
"smithy.api#documentation": " A filter name and value pair that is used to return more specific results from a\n describe operation. Filters can be used to match a set of resources by specific criteria,\n such as tags, attributes, or IDs. "
}
},
"com.amazonaws.licensemanager#FilterLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "FilterLimitExceeded",
"httpResponseCode": 400
},
"smithy.api#documentation": " The request uses too many filters or too many filter values. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Filter"
}
},
"com.amazonaws.licensemanager#FilterName": {
"type": "string"
},
"com.amazonaws.licensemanager#FilterValue": {
"type": "string"
},
"com.amazonaws.licensemanager#FilterValues": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#FilterValue",
"traits": {
"smithy.api#xmlName": "item"
}
}
},
"com.amazonaws.licensemanager#Filters": {
"type": "list",
"member": {

"target": "com.amazonaws.licensemanager#Filter",
"traits": {
"smithy.api#xmlName":
"item"
}
}
},
"com.amazonaws.licensemanager#GetAccessToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"

}
],
"traits": {
"smithy.api#documentation": " Gets a temporary access token to use with
AssumeRoleWithWebIdentity. Access tokens\n are valid for one hour. "
}
},
"com.amazonaws.licensemanager#GetAccessTokenRequest": {
"type": "structure",
"members": {
"Token": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Refresh token, encoded as a JWT token. ",
"smithy.api#required": {}
}
},

"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Token properties to validate against those present in the JWT token. "
}

}
}
},
"com.amazonaws.licensemanager#GetAccessTokenResponse": {
"type": "structure",
"members": {
"AccessToken": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Temporary access token. "
}
}
}
},
"com.amazonaws.licensemanager#GetGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},

```
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
        "Grant": {
            "target": "com.amazonaws.licensemanager#Grant",
            "traits": {
                "smithy.api#documentation": "<p>Grant details.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#GetLicense": {
    "type": "operation",

    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseResponse"
    },
    "errors": [
        {
```

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {

"smithy.api#documentation": " Gets detailed information about the specified license configuration. "
}
},
"com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Unique ID for the license configuration. "
}
},
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",

"traits": {
"smithy.api#documentation": " Dimension for which the licenses are counted. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of available licenses. "
}
},
"LicenseCountHardLimit": {

"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Sets the number of available licenses as a hard limit. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses assigned to resources. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License configuration status. "
}
},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the
owner of the license configuration. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the licenses consumed by resources. "
}
},

"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the managed resources. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags for the license configuration. "
}
},
"ProductInformationList":
{
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is
uninstalled. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTask": {
"type":
"operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets information about the specified license type conversion task. "
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task to retrieve information on. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the resources the license conversion task is associated with. "
}
},
"SourceLicenseContext": {

"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted to. "

}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
"traits": {
"smithy.api#documentation": " Status of the license type conversion task. "
}
},
"StartTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time at which the license type conversion task was started . "
}
},
"LicenseConversionTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Amount of time to complete the license type conversion. "
}
},
"EndTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time at which the license type conversion task was completed. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGenerator": {
"type": "operation",
"input": {

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            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
             },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation":
"<p>Gets information about the specified report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
```

"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"ReportGenerator": {
"target": "com.amazonaws.licensemanager#ReportGenerator",
"traits": {
"smithy.api#documentation": " A report generator that creates periodic reports about your license configurations. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseResponse": {
"type": "structure",
"members": {
"License": {
"target": "com.amazonaws.licensemanager#License",
"traits": {
"smithy.api#documentation": " License details. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseUsage": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
},
"output": {

```
            "target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the usage of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseUsageRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetLicenseUsageResponse":
{
        "type": "structure",
        "members": {
            "LicenseUsage": {
                "target": "com.amazonaws.licensemanager#LicenseUsage",
                "traits": {
                    "smithy.api#documentation": "<p>License usage details.</p>"
                }
            }
```

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        }
    },
    "com.amazonaws.licensemanager#GetServiceSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },

  {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets the License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsRequest": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Regional S3 bucket path for storing reports, license trail event data,
discovery data,\n        and so on.</p>"
                }

            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>SNS topic configured to receive notifications from License
```

Manager. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {
"smithy.api#documentation": " Indicates whether Organizations is integrated with License Manager for\n cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether cross-account discovery is enabled. "
}

},
"LicenseManagerResourceShareArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource share. The License Manager management account \n provides member accounts with access to this share. "
}
}
}
},
"com.amazonaws.licensemanager#Grant": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}
}
},
"ParentArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Parent ARN. ",

"smithy.api#required": {}
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. ",
"smithy.api#required": {}
}
},
"GranteePrincipalArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " The grantee principal ARN. ",

"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"GrantStatus": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"Version": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. ",
"smithy.api#required": {}
}
},
"GrantedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",

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            "traits": {
                "smithy.api#documentation": "<p>Granted operations.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes a grant.</p>"
    }
},
"com.amazonaws.licensemanager#GrantList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Grant"
    }
},
"com.amazonaws.licensemanager#GrantStatus": {
    "type": "string",

  "traits": {
        "smithy.api#enum": [
            {
                "value": "PENDING_WORKFLOW",
                "name": "PENDING_WORKFLOW"
            },
            {
                "value": "PENDING_ACCEPT",
                "name": "PENDING_ACCEPT"
            },
            {
                "value": "REJECTED",
                "name": "REJECTED"
            },
            {
                "value": "ACTIVE",
                "name": "ACTIVE"
            },
            {
                "value": "FAILED_WORKFLOW",
                "name": "FAILED_WORKFLOW"
            },
            {
                "value": "DELETED",
                "name": "DELETED"
            },
            {
                "value": "PENDING_DELETE",
                "name": "PENDING_DELETE"
```

```
            },
            {
                "value": "DISABLED",
                "name": "DISABLED"
            },
            {
                "value": "WORKFLOW_COMPLETED",
                "name": "WORKFLOW_COMPLETED"
            }
        ]
    }
},
"com.amazonaws.licensemanager#GrantedLicense": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
        },
        "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License name.</p>"
            }

},
        "ProductName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product name.</p>"
            }
        },
        "ProductSKU": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product SKU.</p>"
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
                "smithy.api#documentation": "<p>Granted license issuer.</p>"
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " Home Region of the granted license. "

}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " Granted license status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the granted license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Granted license beneficiary. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Granted license metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Creation time of the granted license. "

```
 }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Version of the granted license.</p>"
                }
            },
            "ReceivedMetadata": {
                "target": "com.amazonaws.licensemanager#ReceivedMetadata",
                "traits": {
                    "smithy.api#documentation": "<p>Granted license received metadata.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes a license that is granted to a grantee.</p>"
        }
    },
    "com.amazonaws.licensemanager#GrantedLicenseList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#GrantedLicense"
        }
    },
    "com.amazonaws.licensemanager#ISO8601DateTime":
{
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 50
            },
            "smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-
1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[ 0-3]|[0-1][0-9]):[0-5][0-9])+$"
        }
    },
    "com.amazonaws.licensemanager#Integer": {
        "type": "integer",
        "traits": {
            "smithy.api#box": {}
        }
    },
    "com.amazonaws.licensemanager#InvalidParameterValueException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
```

```
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidParameterValueProvided",

  "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>One or more parameter values are not valid.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#InvalidResourceStateException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidResourceState",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>License Manager cannot allocate a license to a resource because of its
state. </p>\n        <p>For example, you cannot allocate a license to an instance in the process of shutting\n
down.</p>",
            "smithy.api#error": "client",
             "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#InventoryFilter": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the filter.</p>",
                    "smithy.api#required": {}
                }
            },
            "Condition": {
                "target": "com.amazonaws.licensemanager#InventoryFilterCondition",
                "traits": {
                    "smithy.api#documentation": "<p>Condition of the filter.</p>",
                    "smithy.api#required": {}
                }
```

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            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Value
of the filter.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>An inventory filter.</p>"
        }
    },
    "com.amazonaws.licensemanager#InventoryFilterCondition": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "EQUALS",
                    "name": "EQUALS"
                },
                {
                    "value": "NOT_EQUALS",
                    "name": "NOT_EQUALS"
                },
                {
                    "value": "BEGINS_WITH",
                    "name": "BEGINS_WITH"
                },
                {
                    "value": "CONTAINS",
                    "name": "CONTAINS"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#InventoryFilterList":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#InventoryFilter"
        }
    },
    "com.amazonaws.licensemanager#Issuer": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " Issuer name. ",
"smithy.api#required": {}
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
}
},
"traits": {

"smithy.api#documentation": " Details about the issuer of a license. "
}
},
"com.amazonaws.licensemanager#IssuerDetails": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. "
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
},
"KeyFingerprint": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer key fingerprint. "
}
}
},
"traits": {
"smithy.api#documentation": " Details associated with the issuer of a license. "
}
},
"com.amazonaws.licensemanager#License": {

"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. "
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. "
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. "
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#IssuerDetails",
"traits": {
"smithy.api#documentation": " License issuer. "
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-

UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "

}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " License metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " License creation time. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits":
{
"smithy.api#documentation": " License version. "
}
}
},
"traits": {
"smithy.api#documentation": " Software license that is managed in License Manager. "
}
},
"com.amazonaws.licensemanager#LicenseConfiguration": {
"type": "structure",

```
 "members": {
    "LicenseConfigurationId": {
       "target": "com.amazonaws.licensemanager#String",
       "traits": {
          "smithy.api#documentation": "<p>Unique ID of the license configuration.</p>"
       }
    },
    "LicenseConfigurationArn": {
       "target": "com.amazonaws.licensemanager#String",
       "traits": {
          "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
       }

},
    "Name": {
       "target": "com.amazonaws.licensemanager#String",
       "traits": {
          "smithy.api#documentation": "<p>Name of the license configuration.</p>"
       }
    },
    "Description": {
       "target": "com.amazonaws.licensemanager#String",
       "traits": {
          "smithy.api#documentation": "<p>Description of the license configuration.</p>"
       }
    },
    "LicenseCountingType": {
       "target": "com.amazonaws.licensemanager#LicenseCountingType",
       "traits": {
          "smithy.api#documentation": "<p>Dimension to use to track the license inventory.</p>"
       }
    },
    "LicenseRules": {
       "target": "com.amazonaws.licensemanager#StringList",
       "traits": {

          "smithy.api#documentation": "<p>License rules.</p>"
       }
    },
    "LicenseCount": {
       "target": "com.amazonaws.licensemanager#BoxLong",
       "traits": {
          "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
       }
    },
    "LicenseCountHardLimit": {
       "target": "com.amazonaws.licensemanager#BoxBoolean",
       "traits": {
```

"smithy.api#documentation": " Number of available licenses as a hard limit. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "

}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the license configuration. "
}
},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the license configuration's owner. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",

"traits": {
"smithy.api#documentation": " Summaries for licenses consumed by various resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries for managed resources. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},

"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated
discovery information. "
}
}
},
"traits": {
"smithy.api#documentation": " A license configuration is an abstraction of a customer license
agreement that can be\n consumed and enforced by License Manager. Components include specifications for
the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n
Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a
host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name
(ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of server resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource
consuming licenses. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was associated with the
resource. "
}
},
"AmiAssociationScope":

```
{
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-
account</code>.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes an association with a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationStatus": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "AVAILABLE",
                    "name": "AVAILABLE"
                },
                 {
                    "value": "DISABLED",
                    "name": "DISABLED"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationUsage": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Type of resource.</p>"
                }
            },
```

"ResourceStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Status of the resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the account that owns the resource. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was initially associated with the resource. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}

},
"traits": {
"smithy.api#documentation": " Details about the usage of a resource associated with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
}
},
"com.amazonaws.licensemanager#LicenseConfigurations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfiguration"
}
},
"com.amazonaws.licensemanager#LicenseConversionContext": {
"type": "structure",
"members": {

"UsageOperation": {
"target": "com.amazonaws.licensemanager#UsageOperation",
"traits": {
"smithy.api#documentation": " The Usage operation value that corresponds
to the license type you are converting your resource from. For more information about which platforms correspond to which usage operation values see Sample data: usage operation by platform\n \n "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTask": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " The ID of the license type conversion task. "
}
},
"ResourceArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the resource associated with the license type\n conversion task. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted to. "
}
},

"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",

"traits": {
"smithy.api#documentation": " The status of the conversion task. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},
"StartTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the conversion task was started at. "
}
},
"LicenseConversionTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {

"smithy.api#documentation": " The time the usage operation value of the resource was changed. "
}
},
"EndTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the conversion task was completed. "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTaskId": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
}
},
"com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
"type":
"string",
"traits": {

```
        "smithy.api#enum": [
          {
            "value": "IN_PROGRESS",
            "name": "IN_PROGRESS"
          },
          {
            "value": "SUCCEEDED",
            "name": "SUCCEEDED"
          },
          {
            "value": "FAILED",
            "name": "FAILED"
          }
        ]
      }
    },
    "com.amazonaws.licensemanager#LicenseConversionTasks": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#LicenseConversionTask"
      }
    },
    "com.amazonaws.licensemanager#LicenseCountingType": {
      "type": "string",
      "traits": {
        "smithy.api#enum": [
          {
            "value": "vCPU",
            "name": "VCPU"

          },
          {
            "value": "Instance",
            "name": "INSTANCE"
          },
          {
            "value": "Core",
            "name": "CORE"
          },
          {
            "value": "Socket",
            "name": "SOCKET"
          }
        ]
      }
    },
    "com.amazonaws.licensemanager#LicenseDeletionStatus": {
      "type": "string",
```

```
    "traits": {
      "smithy.api#enum": [
        {
          "value": "PENDING_DELETE",
          "name": "PENDING_DELETE"
        },
        {
          "value": "DELETED",
          "name": "DELETED"
        }
      ]
    }
  },
  "com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
     "member": {
      "target": "com.amazonaws.licensemanager#License"
    }
  },
  "com.amazonaws.licensemanager#LicenseOperationFailure": {
    "type": "structure",
    "members": {
      "ResourceArn": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
        }
      },
      "ResourceType": {
        "target": "com.amazonaws.licensemanager#ResourceType",
        "traits": {
          "smithy.api#documentation": "<p>Resource type.</p>"
        }
      },
      "ErrorMessage": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Error message.</p>"

    }
      },
      "FailureTime": {
        "target": "com.amazonaws.licensemanager#DateTime",
        "traits": {
          "smithy.api#documentation": "<p>Failure time.</p>"
        }
      },
      "OperationName": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the operation. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource. "
}
},
"OperationRequestedBy": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The requester is \"License Manager Automated Discovery\". "
}
},
"MetadataList": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Reserved. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the failure of a license operation. "
}
},
"com.amazonaws.licensemanager#LicenseOperationFailureList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseOperationFailure"
}
},
"com.amazonaws.licensemanager#LicenseSpecification": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"AmiAssociationScope": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Details for associating a license configuration with a resource. "
}
},
"com.amazonaws.licensemanager#LicenseSpecifications": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseSpecification"
}
},
"com.amazonaws.licensemanager#LicenseStatus":
{
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "AVAILABLE",
"name": "AVAILABLE"
},
{
"value": "PENDING_AVAILABLE",
"name": "PENDING_AVAILABLE"
},
{
"value": "DEACTIVATED",
"name": "DEACTIVATED"
},
{
"value": "SUSPENDED",
"name": "SUSPENDED"
},
{
"value": "EXPIRED",
"name": "EXPIRED"
},
{
"value": "PENDING_DELETE",
"name": "PENDING_DELETE"
},
{

"value": "DELETED",
"name": "DELETED"
}
]
}
},
"com.amazonaws.licensemanager#LicenseUsage": {
"type": "structure",
"members": {
"EntitlementUsages": {
"target": "com.amazonaws.licensemanager#EntitlementUsageList",
"traits": {
"smithy.api#documentation": " License entitlement usages. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the entitlement usage associated with a license. "
}
},
"com.amazonaws.licensemanager#LicenseUsageException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {

"aws.protocols#awsQueryError": {
"code": "LicenseUsageFailure",
"httpResponseCode": 412
},
"smithy.api#documentation": " You do not have enough licenses available to support a new resource launch. ",
"smithy.api#error": "client",
"smithy.api#httpError": 412
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
},
"errors": [

```
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the resource associations for the specified license
configuration.</p> \n        <p>Resource associations need not consume licenses from a license configuration. \n
For example, an AMI or a stopped instance might not consume a license (depending on \n        the license
rules).</p>"
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest":
{
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
```

```
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurationAssociations": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the associations for the license
configuration.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListDistributedGrants": {
        "type": "operation",
        "input": {
            "target":
 "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
```

"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the grants distributed for the specified license. "
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
"type": "structure",
"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranteePrincipalARN</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
"type": "structure",

```
        "members": {
            "Grants": {
                "target": "com.amazonaws.licensemanager#GrantList",
                "traits": {
                    "smithy.api#documentation": "<p>Distributed grant details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {

"type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
             "smithy.api#documentation": "<p>Lists the license configuration operations that failed.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
        "type": "structure",
        "members": {
```

```
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse": {
        "type": "structure",
        "members": {
            "LicenseOperationFailureList": {
                "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
                "traits": {
                    "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurations":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
        },
        "errors": [
```

```
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },

        {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configurations for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
configurations.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
```

"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>licenseCountingType</code> - The dimension for which licenses are counted.\n Possible values are <code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license enforcement is used. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>usagelimitExceeded</code> - A Boolean value that indicates whether the available licenses have been exceeded. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
"type": "structure",
"members": {
"LicenseConfigurations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurations",
"traits": {
"smithy.api#documentation": " Information about the license configurations. "

}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasks": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"

```
            },
            {
                "target":
 "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
        "type": "structure",
        "members": {
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                 "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>\n        Filters to scope the results. Valid filters are
<code>ResourceArns</code> and <code>Status</code>.\n      </p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTasks": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTasks",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configuration tasks for your
account.</p>"
```

```
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },

{
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the report generators for your account.</p>"
    }
```

```
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest": {
      "type":
 "structure",
      "members": {
        "Filters": {
          "target": "com.amazonaws.licensemanager#FilterList",
          "traits": {
            "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:
</p>\n      <ul>\n        <li>\n        <p>\n        <code>LicenseConfigurationArn</code>\n
</p>\n        </li>\n      </ul>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        },
        "MaxResults": {
          "target": "com.amazonaws.licensemanager#MaxSize100",
          "traits": {
            "smithy.api#documentation": "<p>Maximum number of results to
 return in a single call.</p>"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
      "type": "structure",
      "members": {
        "ReportGenerators": {
          "target": "com.amazonaws.licensemanager#ReportGeneratorList",
          "traits": {
            "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
      "type": "operation",
```

"input":
{
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Describes the
license configurations for the specified resource. "
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a resource that has an
associated license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",

```
        "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
    }
  },
  "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
    "type": "structure",
    "members": {
      "LicenseSpecifications": {
        "target": "com.amazonaws.licensemanager#LicenseSpecifications",
        "traits": {
            "smithy.api#documentation": "<p>License configurations associated with a resource.</p>"
          }
        },
      "NextToken": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
    }
  },
  "com.amazonaws.licensemanager#ListLicenseVersions": {
     "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
      }
```

```
        ],
        "traits": {
            "smithy.api#documentation":
"<p>Lists all versions of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum
number of results to return in a single call.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
        "type": "structure",
        "members": {
            "Licenses": {
                "target": "com.amazonaws.licensemanager#LicenseList",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
```

"com.amazonaws.licensemanager#ListLicenses": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicensesRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicensesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the licenses for your account. "
}
},
"com.amazonaws.licensemanager#ListLicensesRequest": {
"type": "structure",
"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>Beneficiary</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n

```
<code>Fingerprint</code>\n </p>\n </li>\n <li>\n <p>\n
<code>Status</code>\n </p>\n </li>\n </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ListLicensesResponse": {
        "type": "structure",
        "members": {
          "Licenses": {

    "target": "com.amazonaws.licensemanager#LicenseList",
            "traits": {
              "smithy.api#documentation": "<p>License details.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ListReceivedGrants": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
```

{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists grants that are received but not accepted. "
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
"type": "structure",

"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n
<code>GrantStatus</code>\n \n \n \n \n <code>GranterAccountId</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",

```
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
    "type": "structure",
    "members": {
        "Grants": {

         "target": "com.amazonaws.licensemanager#GrantList",
            "traits": {
                "smithy.api#documentation": "<p>Received grant details.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"

},
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists received licenses.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
        "type": "structure",

    "members": {
            "LicenseArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>ProductSKU</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                <code>Status</code>\n                </p>\n            </li>\n
<li>\n                <p>\n                <code>Fingerprint</code>\n                </p>\n            </li>\n            <li>\n
<p>\n                <code>IssuerName</code>\n
            </p>\n            </li>\n            <li>\n                <p>\n                <code>Beneficiary</code>\n                </p>\n
        </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
```

"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
"type": "structure",
"members": {
"Licenses": {

"target": "com.amazonaws.licensemanager#GrantedLicenseList",
"traits": {
"smithy.api#documentation": " Received license details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListResourceInventory": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"

},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FailedDependencyException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"

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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListResourceInventoryRequest": {

        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#InventoryFilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>account_id</code>
 - The ID of the Amazon Web Services account that owns the resource.\n                Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n
    <code>application_name</code> - The name of the application. \n                Logical operators are
<code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n            </li>\n            <li>\n                <p>\n
    <code>license_included</code> - The type of license included. \n                Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.\n                Possible values are <code>sql-server-
enterprise</code> | \n                <code>sql-server-standard</code> | \n                <code>sql-server-web</code> |  \n
        <code>windows-server-datacenter</code>.</p>\n            </li>\n            <li>\n                <p>\n
<code>platform</code> - The platform of the resource.\n
    Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n            </li>\n
<li>\n                <p>\n                    <code>resource_id</code> - The ID of the resource. \n                Logical operators
are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n
        <code>tag:<key></code> - The key/value combination of a tag assigned \n                to the resource. Logical
operators are <code>EQUALS</code> (single account) or\n                <code>EQUALS</code> |
<code>NOT_EQUALS</code> (cross account).</p>\n            </li>\n        </ul>"
```

```
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ListResourceInventoryResponse": {
        "type": "structure",
        "members": {
          "ResourceInventoryList": {
            "target": "com.amazonaws.licensemanager#ResourceInventoryList",
            "traits":
{
              "smithy.api#documentation": "<p>Information about the resources.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ListTagsForResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
           },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
        ],
        "traits": {
```

"smithy.api#documentation": " Lists the tags for the specified license configuration. "
}
},
"com.amazonaws.licensemanager#ListTagsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#ListTagsForResourceResponse": {
"type": "structure",
"members": {
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Information about the tags. "
}
}
}
},
"com.amazonaws.licensemanager#ListTokens": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListTokensRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListTokensResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{

"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists your tokens. "
}
},
"com.amazonaws.licensemanager#ListTokensRequest": {
"type": "structure",
"members": {
"TokenIds": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " Token IDs. "
}
},
"Filters": {
"target":
"com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filter is supported: \n
\n \n \n <code>LicenseArns</code>\n \n \n
"
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListTokensResponse":
{
"type": "structure",
"members": {
"Tokens": {
"target": "com.amazonaws.licensemanager#TokenList",

"traits": {
"smithy.api#documentation": " Received token details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists all license usage records for a license configuration, displaying license\n consumption details by resource
at a selected point in time. Use this action to audit the\n current license consumption for any license inventory and configuration. "
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {

"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>resourceArn</code> - The ARN of the license configuration resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>).
\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>resourceAccount</code> - The ID of the account that owns the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n "
}
}
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationUsageList": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
"traits": {
"smithy.api#documentation": " Information about the license configurations. "

```
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#Location": {
    "type": "string"
},
"com.amazonaws.licensemanager#Long": {
    "type": "long",
    "traits": {
        "smithy.api#box": {}
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummary": {
    "type": "structure",
    "members": {
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
            }
        },
        "AssociationCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
    }
},
"com.amazonaws.licensemanager#MaxSize100": {
    "type": "integer",
    "traits": {
```

```
            "smithy.api#box": {},
            "smithy.api#range": {
                "min": 1,
                "max": 100
            }
        }
    },
    "com.amazonaws.licensemanager#MaxSize3StringList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
         },
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 3
            }
        }
    },
    "com.amazonaws.licensemanager#Message": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#Metadata": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The key name.</p>"
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The value.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes key/value pairs.</p>"
        }

    },
    "com.amazonaws.licensemanager#MetadataList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Metadata"
        }
```

```
    },
    "com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>There are no entitlements found for this license, or the entitlement
maximum count is reached.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
      }
    },
    "com.amazonaws.licensemanager#OrganizationConfiguration": {
      "type": "structure",
      "members": {
        "EnableIntegration": {
          "target": "com.amazonaws.licensemanager#Boolean",

       "traits": {
            "smithy.api#documentation": "<p>Enables Organizations integration.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Configuration information for Organizations.</p>"
      }
    },
    "com.amazonaws.licensemanager#PrincipalArnList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#Arn"
      },
      "traits": {
        "smithy.api#length": {
          "min": 1,
          "max": 1
        }
      }
    },
    "com.amazonaws.licensemanager#ProductInformation": {
      "type": "structure",
      "members": {
        "ResourceType": {
          "target": "com.amazonaws.licensemanager#String",
```

"traits": {

"smithy.api#documentation": " Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterList": {
"target": "com.amazonaws.licensemanager#ProductInformationFilterList",
"traits": {
"smithy.api#documentation": " A Product information filter consists of a <code>ProductInformationFilterComparator</code> which is a logical operator, a <code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. \n Accepted values for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. \n The following filters and are supported when the resource type \n is <code>SSM_MANAGED</code>: \n \n \n \n <code>Application Name</code> - The name of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Publisher</code> - The publisher of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Version</code> - The version of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Type</code> - The platform type.\n
Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n \n \n \n \n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n \n \n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n
Possible values are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n The following filters and logical operators are supported when the resource type\n is <code>RDS</code>: \n \n \n \n <code>Engine Edition</code> - The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>. \n \n \n \n <code>License Pack</code> - The license pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n
<code>diagnostic pack sqlt</code> | \n <code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n \n ",
"smithy.api#required": {}
}

```
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes product information for a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ProductInformationFilter": {
        "type": "structure",
        "members": {
            "ProductInformationFilterName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Filter name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductInformationFilterValue": {
                "target":
"com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Filter value.</p>"
                }
            },
            "ProductInformationFilterComparator": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Logical operator.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes product information filters.</p>"
        }
    },
    "com.amazonaws.licensemanager#ProductInformationFilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ProductInformationFilter"
        }
    },
    "com.amazonaws.licensemanager#ProductInformationList": {
        "type": "list",

       "member": {
            "target": "com.amazonaws.licensemanager#ProductInformation"
        }
    },
```

"com.amazonaws.licensemanager#ProvisionalConfiguration": {
"type": "structure",
"members": {
"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the provisional configuration, in minutes. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details about a provisional configuration. "
}
},
"com.amazonaws.licensemanager#RateLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"

}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "RateLimitExceeded",
"httpResponseCode": 429
},
"smithy.api#documentation": " Too many requests have been submitted. Try again after a brief wait. ",
"smithy.api#error": "client",
"smithy.api#httpError": 429
}
},
"com.amazonaws.licensemanager#ReceivedMetadata": {
"type": "structure",
"members": {
"ReceivedStatus": {
"target": "com.amazonaws.licensemanager#ReceivedStatus",
"traits": {
"smithy.api#documentation": " Received status. "
}
},
"ReceivedStatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {

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    "smithy.api#documentation": "<p>Received status reason.</p>"
            }
        },
        "AllowedOperations": {
            "target": "com.amazonaws.licensemanager#AllowedOperationList",
            "traits": {
                "smithy.api#documentation": "<p>Allowed operations.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Metadata associated with received licenses and grants.</p>"
    }
},
"com.amazonaws.licensemanager#ReceivedStatus": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "PENDING_WORKFLOW",
                "name": "PENDING_WORKFLOW"
            },
            {
                "value": "PENDING_ACCEPT",
                "name": "PENDING_ACCEPT"
            },
             {
                "value": "REJECTED",
                "name": "REJECTED"
            },
            {
                "value": "ACTIVE",
                "name": "ACTIVE"
            },
            {
                "value": "FAILED_WORKFLOW",
                "name": "FAILED_WORKFLOW"
            },
            {
                "value": "DELETED",
                "name": "DELETED"
            },
            {
                "value": "DISABLED",
                "name": "DISABLED"
            },
            {
                "value": "WORKFLOW_COMPLETED",
```

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                "name": "WORKFLOW_COMPLETED"
            }
        ]
    }
  },
  "com.amazonaws.licensemanager#RedirectException": {
    "type": "structure",
    "members": {

"Location": {
            "target": "com.amazonaws.licensemanager#Location",
            "traits": {
                "smithy.api#httpHeader": "Location"
            }
        },
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 308
    }
  },
  "com.amazonaws.licensemanager#RejectGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#RejectGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#RejectGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
         },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
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            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#RejectGrantRequest":
{
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#RejectGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"

        }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        }
```

```
    },
    "com.amazonaws.licensemanager#RenewType": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "None",
                    "name": "NONE"
                },
                {
                    "value": "Weekly",
                    "name": "WEEKLY"
                },
                {
                    "value": "Monthly",
                    "name": "MONTHLY"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#ReportContext": {
        "type": "structure",
        "members": {

  "licenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration that
this generator reports on.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details of the license configuration that this generator reports on.</p>"
        }
    },
    "com.amazonaws.licensemanager#ReportFrequency": {
        "type": "structure",
        "members": {
            "value": {
                "target": "com.amazonaws.licensemanager#Integer",
                "traits": {
                    "smithy.api#documentation": "<p>Number of times within the frequency period that a report is
generated.  \n        The only supported value is <code>1</code>.</p>"

            }
            },
```

```
            "period": {
                "target": "com.amazonaws.licensemanager#ReportFrequencyType",
                "traits": {
                    "smithy.api#documentation": "<p>Time period between each report. The period can be daily, weekly,
or monthly.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
        }
    },
    "com.amazonaws.licensemanager#ReportFrequencyType": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "DAY",
                    "name": "DAY"
                },
                {
                    "value": "WEEK",
                    "name": "WEEK"
                },
                {
                    "value": "MONTH",

            "name": "MONTH"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#ReportGenerator": {
        "type": "structure",
        "members": {
            "ReportGeneratorName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the report generator.</p>"
                }
            },
            "ReportType": {
                "target": "com.amazonaws.licensemanager#ReportTypeList",
                "traits": {
                    "smithy.api#documentation": "<p>Type of reports that are generated.</p>"
                }
            },
            "ReportContext": {
```

"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " License configuration type for this generator. "
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. "
}
},
"LastRunStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the last report generation attempt. "
}
},
"LastRunFailureReason": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Failure message for the last report generation attempt. "
}
},
"LastReportGenerationTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the last report was generated at. "
}
},
"ReportCreatorAccount": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Web Services account ID used to create the report generator. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Description of the report generator. "
}
},
"S3Location": {
"target": "com.amazonaws.licensemanager#S3Location",
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the report was created. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags associated with the report generator. "
}
}
},

"traits": {
"smithy.api#documentation": " Describe the details of a report generator. "
}
},
"com.amazonaws.licensemanager#ReportGeneratorList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ReportGenerator"
}
},
"com.amazonaws.licensemanager#ReportGeneratorName": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 100
}
}
},
"com.amazonaws.licensemanager#ReportType": {
"type": "string",
"traits": {
"smithy.api#enum": [
{

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            "value": "LicenseConfigurationSummaryReport",
            "name": "LICENSE_CONFIGURATION_SUMMARY_REPORT"
        },
        {
            "value": "LicenseConfigurationUsageReport",
            "name": "LICENSE_CONFIGURATION_USAGE_REPORT"
        }
    ]
  }
},
"com.amazonaws.licensemanager#ReportTypeList": {
  "type": "list",
  "member": {
    "target": "com.amazonaws.licensemanager#ReportType"
  }
},
"com.amazonaws.licensemanager#ResourceInventory": {
  "type": "structure",
  "members": {
    "ResourceId": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>ID of the resource.</p>"
      }
    },
    "ResourceType": {
      "target": "com.amazonaws.licensemanager#ResourceType",
      "traits": {
        "smithy.api#documentation": "<p>Type of resource.</p>"
      }
    },
    "ResourceArn": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
      }
    },
    "Platform": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Platform of the resource.</p>"
      }
    },
    "PlatformVersion": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Platform version of the resource in the inventory.</p>"
      }
```

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            },
            "ResourceOwningAccountId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
"<p>ID of the account that owns the resource.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#ResourceInventoryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ResourceInventory"
        }
    },
    "com.amazonaws.licensemanager#ResourceLimitExceededException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "ResourceLimitExceeded",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>Your resource limits have
been exceeded.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#ResourceNotFoundException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidResource.NotFound",
                "httpResponseCode": 400
```

```
            },
            "smithy.api#documentation": "<p>The resource cannot be found.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#ResourceType": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "EC2_INSTANCE",
                     "name": "EC2_INSTANCE"
                },
                {
                    "value": "EC2_HOST",
                    "name": "EC2_HOST"
                },
                {
                    "value": "EC2_AMI",
                    "name": "EC2_AMI"
                },
                {
                    "value": "RDS",
                    "name": "RDS"
                },
                {
                    "value": "SYSTEMS_MANAGER_MANAGED_INSTANCE",
                    "name": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#S3Location": {
        "type": "structure",
        "members": {
            "bucket": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the S3 bucket
reports are published to.</p>"
                }
            },
            "keyPrefix": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Prefix of the S3 bucket reports are published to.</p>"
                }
```

```
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
        }
    },
    "com.amazonaws.licensemanager#ServerInternalException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InternalError",
                "httpResponseCode": 500
            },
            "smithy.api#documentation":
 "<p>The server experienced an internal error. Try again.</p>",
            "smithy.api#error": "server",
            "smithy.api#httpError": 500
        }
    },
    "com.amazonaws.licensemanager#SignedToken": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 4096
            }
        }
    },
    "com.amazonaws.licensemanager#StatusReasonMessage": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 400
            },
            "smithy.api#pattern": "^[\\s\\S]+$"
        }
    },
    "com.amazonaws.licensemanager#String": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#StringList": {
        "type": "list",
```

```
        "member": {
            "target": "com.amazonaws.licensemanager#String"

      }
    },
    "com.amazonaws.licensemanager#Tag": {
        "type": "structure",
        "members": {
            "Key": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag key.</p>"
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag value.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },
    "com.amazonaws.licensemanager#TagList":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Tag"
        }
    },
    "com.amazonaws.licensemanager#TagResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#TagResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#TagResourceResponse"
        },
        "errors": [
            {
```

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},

{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Adds the specified tags to the specified license configuration. "
}
},
"com.amazonaws.licensemanager#TagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " One or more tags. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#TagResourceResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#TokenData": {
"type": "structure",
"members": {

"TokenId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token ID. "
}
},
"TokenType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Type of token generated. The supported value is <code>REFRESH_TOKEN</code>. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"ExpirationTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Token expiration time, in ISO8601-UTC format. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller. "
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the roles included in the token. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token status. The possible values are <code>AVAILABLE</code> and <code>DELETED</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a token. "

```
        }
    },
    "com.amazonaws.licensemanager#TokenList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#TokenData"
        }
    },
    "com.amazonaws.licensemanager#TokenString": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 4096
            },
            "smithy.api#pattern": "^\\S+$"
        }
    },
    "com.amazonaws.licensemanager#TokenType":
{
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "REFRESH_TOKEN",
                    "name": "REFRESH_TOKEN"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The digital signature method is unsupported. Try your request
again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#UntagResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UntagResourceRequest"
```

```
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UntagResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Removes the specified tags from the specified license
configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#UntagResourceRequest":
 {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "TagKeys": {
                "target": "com.amazonaws.licensemanager#TagKeyList",
                "traits": {
                    "smithy.api#documentation": "<p>Keys identifying the tags to remove.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#UntagResourceResponse": {
```

```
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfiguration": {

        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
             }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Modifies the attributes of an existing license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseConfigurationStatus": {
```

"target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
"traits": {
"smithy.api#documentation": " New status of the license configuration. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " New license rule. The only rule that you can add after you create a license\n configuration is licenseAffinityToHost. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " New number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " New hard limit of the number of available licenses. "
}

},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New description of the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " New product information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {

"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates a report generator. \n After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated. "

```
  }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
      "type": "structure",
      "members": {
        "LicenseManagerReportGeneratorArn": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to
update.</p>",
            "smithy.api#required": {}
          }
        },
        "ReportGeneratorName": {
          "target": "com.amazonaws.licensemanager#ReportGeneratorName",
          "traits": {
            "smithy.api#documentation": "<p>Name of the report generator.</p>",
            "smithy.api#required": {}
          }
        },
        "Type": {
          "target": "com.amazonaws.licensemanager#ReportTypeList",
          "traits": {
            "smithy.api#documentation": "<p>Type of reports to generate. The following report types are
supported:</p>\n <ul>\n <li>\n <p>License configuration report - Reports the number and
details of consumed licenses for a license configuration.</p>\n </li>\n <li>\n <p>Resource
report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n </li>\n
</ul>",
            "smithy.api#required": {}
          }
        },
        "ReportContext": {
          "target": "com.amazonaws.licensemanager#ReportContext",
          "traits": {
            "smithy.api#documentation": "<p>The report context.</p>",
            "smithy.api#required": {}
          }
        },
        "ReportFrequency": {
          "target": "com.amazonaws.licensemanager#ReportFrequency",
          "traits": {
            "smithy.api#documentation": "<p>Frequency by which reports are generated.</p>",
            "smithy.api#required": {}
          }
        },
        "ClientToken": {
          "target": "com.amazonaws.licensemanager#ClientRequestToken",
```

"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#InvalidResourceStateException"

},
{
"target": "com.amazonaws.licensemanager#LicenseUsageException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{

"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Adds or removes the specified license configurations for the specified Amazon Web Services resource. \n You can update the license specifications of AMIs, instances, and hosts.\n You cannot update the license specifications for launch templates and CloudFormation templates, \n as they send license configurations to the operation that creates the resource. "
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon Web Services resource. ",
"smithy.api#required": {}
}
},
"AddLicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " ARNs of the license configurations to add. "
}
},
"RemoveLicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " ARNs of the license configurations to remove. "
}
}
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UpdateServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
},
"errors": [

```
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon S3 bucket where
the License Manager information is stored.</p>"
                }
            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon
 Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts.</p>"
                }
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Enables integration with Organizations for cross-account
discovery.</p>"
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Activates cross-account discovery.</p>"
```

```
                }
            }
        }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#UsageOperation": {
        "type":
 "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 50
            }
        }
    },
    "com.amazonaws.licensemanager#ValidationException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    }
  }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
```

```
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive
 identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string
```

```
 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 //
 Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
```

```
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err
!= nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return
 nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 //
 * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
```

```
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {
```

```
 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack,
```

```
 options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
```

```
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "DeleteLicense",
 }
}
```

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// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
```

```
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if
 err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
```

```
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "AssociateLicense",
 }
}
```

1.6082 aws-sdk-go-v2-service-internal-accept-encoding 1.11.0

1.6082.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-
Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil,
 err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
```

```
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err !=
 nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
```

```
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack);
err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "AssociateLicense",
 }
}
```

AWS SDK for Go

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```
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
```

```
    - name: Get Target Files
      run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
    - name: Checkout scancode
      uses: actions/checkout@v2
      with:
        repository: nexB/scancode-toolkit
        path: scancode-toolkit
        fetch-depth: 1
    - name: Set up Python ${{ matrix.python-version }}
       uses: actions/setup-python@v2
      with:
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
```

```
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
```

```
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return
 err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
```

```
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "CheckInLicense",
 }
}
{
  "smithy": "2.0",
  "shapes": {
      "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
          "type": "integer"
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
          "type": "long"
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
          "type": "structure",
          "members": {
              "Name": {
                  "target": "smithy.api#String",
                  "traits": {
                      "smithy.api#documentation": "<p>The type of name to filter by.</p>"
                  }
              },
              "Values": {
                  "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
                  "traits": {
                      "smithy.api#documentation": "<p>One or more values for the name to filter by.</p>"
                  }
              },
```

"Operator": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
"traits": {
"smithy.api#documentation": " An operator for filtering results. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter object that is used to return more specific results from a describe operation.\n Filters can be used to match a set of resources by specific criteria. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
},
"output": {

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the Linux subscriptions service settings. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/GetServiceSettings"
},
"smithy.api#idempotent": {}
}
},

"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " Lists the settings defined for Linux subscriptions discovery. The settings include if\n Organizations integration has been enabled, and which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation": " A message which details the Linux subscriptions service settings current status. "
}
},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Region in which License Manager displays the aggregated data for Linux\n subscriptions. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
"type": "structure",
"members": {

"AmiId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The AMI ID used to launch the instance. "
}
},
"InstanceID": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The instance ID of the resource. "
}
},
"InstanceType": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The instance type of the resource. "
}

},
"AccountID": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The account ID which owns the instance. "
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of the instance. "
}
},
"Region": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The Region the instance is running in. "
}
},
"UsageOperation": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The usage operation of the instance. For more information, see For more information, see\n Usage\n operation values in the License Manager User Guide. "
}
},
"ProductCode": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",

"traits": {
"smithy.api#documentation": " The product code for the instance. For more information, see Usage\n operation values in the License Manager User Guide . "
}
},
"LastUpdatedTime": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The time in which the last discovery updated the instance details. "
}
},
"SubscriptionName": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the subscription being used by the instance. "
}
}
},
"traits": {
"smithy.api#documentation": " Details discovered information about a running instance using Linux subscriptions. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " An exception occurred with the service. ",
"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
"type": "service",
"version": "2018-05-10",
"operations": [
{

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
}
],

"traits": {
"aws.api#service": {
"sdkId": "License Manager Linux Subscriptions",
"arnNamespace": "license-manager-linux-subscriptions",
"cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
},
"aws.auth#sigv4": {
"name": "license-manager-linux-subscriptions"
},
"aws.protocols#restJson1": {},
"smithy.api#cors": {
"additionalAllowedHeaders": [
"*",
"content-type",
"x-amz-content-sha256",
"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",
"x-api-key",
"authorization",
"x-amz-date",

"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"
]
},
"smithy.api#documentation": "<p>With License Manager, you can discover and track your commercial

Linux subscriptions on running\n Amazon EC2 instances.</p>",
"smithy.api#title": "AWS License Manager Linux Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The
AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",

"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}
},
"rules": [
{
"conditions": [
{
"fn": "isSet",
"argv": [
{
"ref": "Endpoint"
}
]
}
],

```
"type": "tree",
"rules": [
  {

  "conditions": [
      {
        "fn": "booleanEquals",
        "argv": [
          {
            "ref": "UseFIPS"
          },
          true
        ]
      }
    ],
    "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
    "type": "error"
  },
  {
    "conditions": [],
    "type": "tree",
    "rules": [
      {

    "conditions": [
          {
            "fn": "booleanEquals",
            "argv": [
              {
                "ref": "UseDualStack"
              },
              true
            ]
          }
        ],
        "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
        "type": "error"
      },
      {
        "conditions": [],

"endpoint": {
          "url": {
            "ref": "Endpoint"
          },
          "properties": {},
          "headers": {}
        },
```

```
                "type": "endpoint"
              }
            ]
          }
        ]
      },
      {
        "conditions": [],
        "type": "tree",
        "rules": [
          {
            "conditions": [
              {
                "fn": "isSet",

"argv": [
                  {
                    "ref": "Region"
                  }
                ]
              }
            ],
            "type": "tree",
            "rules": [
              {
                "conditions": [
                  {
                    "fn": "aws.partition",
                    "argv": [
                      {
                        "ref": "Region"
                      }
                    ],

"assign": "PartitionResult"
                  }
                ],
                "type": "tree",
                "rules": [
                  {
                    "conditions": [
                      {
                        "fn": "booleanEquals",
                        "argv": [
                          {
                            "ref": "UseFIPS"
                          },
                          true
```

```
                    ]
                },

            {
                    "fn": "booleanEquals",
                    "argv": [
                        {
                            "ref": "UseDualStack"
                        },
                        true
                    ]
                }
            ],
            "type": "tree",
            "rules": [
                {
                    "conditions": [
                        {

                    "fn": "booleanEquals",
                            "argv": [
                                true,
                                {
                                    "fn": "getAttr",
                                    "argv": [
                                        {
                                            "ref": "PartitionResult"
                                        },
                                        "supportsFIPS"
                                    ]

}
                            ]
                        },
                        {
                            "fn": "booleanEquals",
                            "argv": [
                                true,
                                {
                                    "fn": "getAttr",
                                    "argv": [
                                        {
                                            "ref": "PartitionResult"
                                        },

                            "supportsDualStack"
                                    ]
                                }
```

```
                    ]
                }
            ],
            "type": "tree",
            "rules": [
                {
                    "conditions": [],
                    "type": "tree",
                    "rules": [
                        {

        "conditions": [],
                            "endpoint": {
                                "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                "properties": {},
                                "headers": {}
                            },
                            "type": "endpoint"
                        }
                    ]
                }
            ]

        },
            {
                "conditions": [],
                "error": "FIPS and DualStack are enabled, but this partition does not support
one or both",
                "type": "error"
            }
        ]
    },
    {
        "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [
                    {

"ref": "UseFIPS"
                    },
                    true
                ]
            }
        ],
        "type": "tree",
        "rules": [
```

```
{
    "conditions": [
        {
            "fn": "booleanEquals",
            "argv": [
                true,

{
                "fn": "getAttr",
                "argv": [
                    {
                        "ref": "PartitionResult"
                    },
                    "supportsFIPS"
                ]
            }
            ]
        }
    ],
    "type": "tree",

"rules": [
        {
            "conditions": [],
            "type": "tree",
            "rules": [
                {
                    "conditions": [],
                    "endpoint": {
                        "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                        "properties": {},
                        "headers": {}

                    },
                    "type": "endpoint"
                }
            ]
        }
    ]
},
{
    "conditions": [],
    "error": "FIPS is enabled but this partition does not support FIPS",
    "type": "error"
}
]
```

```
},
                    {
                      "conditions": [
                        {
                          "fn": "booleanEquals",
                          "argv": [
                            {
                              "ref": "UseDualStack"
                            },
                            true
                          ]
                        }
                      ],
                      "type": "tree",
                      "rules": [
                        {

                       "conditions": [
                            {
                              "fn": "booleanEquals",
                              "argv": [
                                true,
                                {
                                  "fn": "getAttr",
                                  "argv": [
                                    {
                                      "ref": "PartitionResult"
                                    },
                                    "supportsDualStack"
                                  ]
                                }
                              ]
                            }
                          ],
                          "type": "tree",
                          "rules": [
                            {
                              "conditions": [],
                              "type": "tree",
                              "rules": [
                                {
                                  "conditions": [],

                             "endpoint": {
                                    "url": "https://license-manager-linux-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                    "properties": {},
                                    "headers": {}
```

```
                                        },
                                        "type": "endpoint"
                                    }
                                ]
                            }
                        ]
                    },

        {
                        "conditions": [],
                        "error": "DualStack is enabled but this partition does not support DualStack",
                        "type": "error"
                    }
                ]
            },
            {
                "conditions": [],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [],
                        "endpoint": {
                            "url":
"https://license-manager-linux-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
                            "properties": {},
                            "headers": {}
                        },
                        "type": "endpoint"
                    }
                ]
            }
        ]
    }
  ]
},
{
    "conditions": [],
    "error": "Invalid Configuration: Missing Region",
    "type": "error"
}
]
}
]
},
"smithy.rules#endpointTests": {
  "testCases": [
    {
      "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
```

"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {

"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,

"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {

"url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint":

{
"url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint":
{
"url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": true

```
    }
  },
  {
    "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
      }
    },
    "params": {
      "Region": "us-gov-east-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
    "expect": {
      "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
    },
    "params": {
      "Region": "us-iso-east-1",
      "UseFIPS": true,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
      }
    },
    "params": {
      "Region": "us-iso-east-1",
      "UseFIPS": true,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
      "error": "DualStack is enabled but this partition does not support DualStack"
    },
    "params": {
      "Region": "us-iso-east-1",
      "UseFIPS": false,
      "UseDualStack": true
```

```
                }
            },
            {

    "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
                "expect": {
                    "endpoint": {
                        "url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
                    }
                },
                "params": {
                    "Region": "us-iso-east-1",
                    "UseFIPS": false,
                    "UseDualStack": false
                }
            },
            {
                "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
                "expect": {
                    "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
                },
                "params": {

              "Region": "us-isob-east-1",
                    "UseFIPS": true,
                    "UseDualStack": true
                }
            },
            {
                "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
                "expect": {
                    "endpoint": {
                        "url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
                    }
                },
                "params": {
                    "Region": "us-isob-east-1",
                    "UseFIPS": true,
                    "UseDualStack": false
                }
            },
            {
                "documentation": "For region us-isob-east-1 with FIPS disabled
and DualStack enabled",
                "expect": {
                    "error": "DualStack is enabled but this partition does not support DualStack"
                },
                "params": {
```

"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",

"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",

"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},

```
            {
              "documentation": "For custom endpoint with fips enabled and dualstack disabled",
              "expect": {
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": false,

        "Endpoint": "https://example.com"
              }
            },
            {
              "documentation": "For custom endpoint with fips disabled and dualstack enabled",
              "expect": {
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": true,
                "Endpoint": "https://example.com"
              }
            },
            {
              "documentation": "Missing region",
              "expect": {
                "error": "Invalid Configuration: Missing Region"
              }

      }
          ],
          "version": "1.0"
        }
    }
  },
  "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
    "type": "string",
    "traits": {
      "smithy.api#enum": [
        {
          "name": "Enabled",
          "value": "Enabled",
          "documentation": "Enabled LinuxSubscriptionsDiscovery"
        },
        {
          "name": "Disabled",
```

"value": "Disabled",
"documentation": "Disabled LinuxSubscriptionsDiscovery"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
"type": "structure",
"members": {
"SourceRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Regions in which to discover data for Linux subscriptions. ",
"smithy.api#required": {}
}
},
"OrganizationIntegration": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
"traits": {
"smithy.api#documentation": " Details if you have enabled resource discovery across your accounts in Organizations. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Lists the settings defined for discovering Linux subscriptions. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the running Amazon EC2 instances that were discovered with
commercial Linux\n      subscriptions.</p>",
            "smithy.api#http": {

      "code": 200,
                "method": "POST",
                "uri": "/subscription/ListLinuxSubscriptionInstances"
            },
            "smithy.api#idempotent": {},
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "Instances"
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest": {
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify. For example, you can filter by
 the name of\n        <code>AmiID</code> with an optional operator to see subscriptions that match, partially\n
match, or don't match a certain Amazon Machine Image (AMI) ID.</p>\n        <p>The valid names for this filter
are:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>AmiID</code>\n                </p>\n
</li>\n            <li>\n                <p>\n                    <code>InstanceID</code>\n                </p>\n            </li>\n
<li>\n                <p>\n                    <code>AccountID</code>\n                </p>\n            </li>\n            <li>\n
<p>\n                    <code>Status</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>Region</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>UsageOperation</code>\n                </p>\n            </li>\n            <li>\n
    <p>\n                    <code>ProductCode</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
     <code>InstanceType</code>\n                </p>\n            </li>\n        </ul>\n        <p>The valid Operators for this
filter are:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>contains</code>\n                </p>\n
</li>\n            <li>\n                <p>\n                    <code>equals</code>\n                </p>\n            </li>\n            <li>\n
        <p>\n                    <code>Notequal</code>\n                </p>\n            </li>\n        </ul>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
```

```
}
        },
        "NextToken": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>",
            "smithy.api#length": {
              "min": 1,
              "max": 16384
            }
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
      "type": "structure",
      "members": {
        "Instances": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
          "traits": {
            "smithy.api#documentation":
 "<p>An array that contains instance objects.</p>"
          }
        },
        "NextToken": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
        },
```

{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the Linux subscriptions that have been discovered. If you have linked your\n organization, the returned results will include data aggregated across your accounts in\n Organizations. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/ListLinuxSubscriptions"
},
"smithy.api#idempotent": {},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "Subscriptions"
}

}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. For example, you can filter by the name of\n <code>Subscription</code> with an optional operator to see subscriptions that match,\n partially match, or don't match a certain subscription's name. \n The valid names for this filter are: \n \n \n \n <code>Subscription</code>\n \n \n \n The valid Operators for this filter are: \n \n \n \n <code>contains</code>\n \n \n \n \n <code>equals</code>\n \n \n \n \n <code>Notequal</code>\n \n \n "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}

```
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>",
                    "smithy.api#length": {

                     "min": 1,
                        "max": 16384
                    }
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
        "type": "structure",
        "members": {
            "Subscriptions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
                "traits": {
                    "smithy.api#documentation": "<p>An array that contains subscription objects.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for
 the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "name": "EQUAL",
                    "value": "Equal",
                    "documentation": "Equal operator"
                },
                {
                    "name": "NOT_EQUAL",
                    "value": "NotEqual",
```

"documentation": "Not equal operator"
},
{
"name": "CONTAINS",
"value": "Contains",
"documentation": "Contains operator"
}
],
"smithy.api#length": {
"min": 1,
"max": 20
}
}
},

"com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "Enabled",
"value": "Enabled",
"documentation": "Enabled OrganizationIntegration"
},
{
"name": "Disabled",
"value": "Disabled",
"documentation": "Disabled OrganizationIntegration"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
"type": "list",
"member": {
"target": "smithy.api#String"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
"type": "string",
"traits": {
"smithy.api#enum": [

{
"name": "InProgress",
"value": "InProgress",
"documentation": "InProgress status"
},

```
            {
              "name": "Completed",
              "value": "Completed",
              "documentation": "Completed status"
            },
            {
              "name": "Successful",
              "value": "Successful",
              "documentation": "Successful status"
            },
            {
              "name": "Failed",
              "value": "Failed",
              "documentation": "Failed status"
            }
          ]
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
        "type": "list",
        "member": {
          "target": "smithy.api#String",
          "traits":
{
            "smithy.api#length": {
              "min": 1,
              "max": 100
            }
          }
        },
        "traits": {
          "smithy.api#length": {
            "min": 1,
            "max": 100
          },
          "smithy.api#uniqueItems": {}
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
        "type": "map",
        "key": {
          "target": "smithy.api#String"
        },
        "value": {
          "target": "smithy.api#String"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
```

"type": "structure",
"members": {
"Name": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the subscription. "

}
},
"Type": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own\n Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the\n Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS. "
}
},
"InstanceCount": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
"traits": {
"smithy.api#documentation": " The total amount of running instances using this subscription. "
}
}
},
"traits": {
"smithy.api#documentation": " An object which details a discovered Linux subscription. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request was denied due to request throttling. ",
"smithy.api#error": "client"
}
},

"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
},

"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates the service settings for Linux subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/UpdateServiceSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest":
{
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Describes if the discovery of Linux subscriptions is enabled. ",
"smithy.api#required": {}
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The
settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated
from. ",

"smithy.api#required": {}
}
},
"AllowUpdate": {
"target": "smithy.api#Boolean",
"traits": {
"smithy.api#documentation": " Describes if updates are allowed to the service settings for Linux subscriptions. If you\n allow updates, you can aggregate Linux subscription data in more than one home Region. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},

"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation":
" A message which details the Linux subscriptions service settings current status. "
}
},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {

"smithy.api#documentation": " The Region in which License Manager displays the aggregated data for Linux\n subscriptions. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The provided input is not valid. Try your request again. ",
"smithy.api#error": "client"
}
}
}
}

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
```

```
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //   - Beneficiary
 //   - ProductSKU
 //   - Fingerprint
 //
   - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
```

```
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
if err != nil {
 return err
}
if
err := addProtocolFinalizerMiddlewares(stack, options, "ListLicenses"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:
     ServiceID,
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
```

```
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 //
 This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
```

```
}
err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack,
options, "DisassociateLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
```

```
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata
 {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
 CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
```

```
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource
 Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil
 {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
```

```
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier
 that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData
```

```
 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutBorrowLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return
```

```
 err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager
```

```
import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide
 to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
 // borrow configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration
```

```
 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //
 // This member is required.
 LicenseName *string

 // Product name.
 //
 // This member is required.
 ProductName *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity
 *types.DatetimeRange

 // Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string
```

```
 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
  return fmt.Errorf("add
 protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
```

```
  Region:       region,
  ServiceID:     ServiceID,
  OperationName:
 "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
```

```
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return
 err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
```

```
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack);
err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
```

```
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "GetLicense",
 }
}
```

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THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
```

```
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
   - ProductSKU
 //   - Status
 //   - Fingerprint
 //   - IssuerName
 //   - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense
```

```
 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{},
 middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
```

```
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack);
 err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "ListReceivedLicenses",
```

}
}

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```
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException": {
      "type": "structure",
      "members": {
        "message": {
          "target": "smithy.api#String"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>You don't have sufficient access to perform this action.</p>",
        "smithy.api#error": "client"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
      "type": "structure",
      "members": {
        "DirectoryId": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The directory ID for an Active Directory identity provider.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation":
```

" Details about an Active Directory identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUser": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Associates the user to an EC2 instance to utilize user-based subscriptions. \n <note>\n Your estimated bill for charges on the number of users and related costs will take 48\n hours to appear for billing periods that haven't closed (marked as Pending billing status) in Amazon Web Services Billing. For more information, see Viewing your\n monthly charges in the Amazon Web Services Billing User Guide. \n </note>",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/AssociateUser"
},
"smithy.api#idempotent": {}
}

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the
EC2 instance, which provides user-based subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>The identity provider of the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse": {
        "type": "structure",
        "members": {
            "InstanceUserSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
                 "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#BoxInteger": {
        "type": "integer"
```

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#ConflictException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request couldn't be completed because it conflicted with the current
state of the\n      resource.</p>",
            "smithy.api#error": "server"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider":
 {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deregisters the identity provider from providing user-based
```

subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/DeregisterIdentityProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#documentation":
" Metadata that describes the results of an identity provider operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUser": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse"

```
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Disassociates the user from an EC2 instance providing user-based
subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/DisassociateUser"
            },
            "smithy.api#idempotent": {}
        }

    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
```

"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse": {
"type": "structure",
"members": {
"InstanceUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}
}
}
}
},

"com.amazonaws.licensemanagerusersubscriptions#Filter": {
"type": "structure",
"members": {
"Attribute": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of an attribute to use as a filter. "
}
},
"Operation": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of search (For example, eq, geq, leq) "

```
                }
            },
            "Value": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Value of the filter.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A filter name and value pair that is used
 to return more specific results from a describe\n      operation. Filters can be used to match a set of resources by
specific criteria, such as tags,\n      attributes, or IDs.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#FilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
        "type": "union",
        "members": {
            "ActiveDirectoryIdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that details an Active Directory identity provider.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation":
 "<p>Details about an identity provider.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {
        "type": "structure",
        "members": {
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Settings": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
```

"traits": {
"smithy.api#documentation": " An object that details the registered identity providers product related configuration\n settings such as the subnets to provision VPC endpoints. ",
"smithy.api#required":
{}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of an identity provider. ",
"smithy.api#required": {}
}
},
"FailureMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The failure message associated with an identity provider. "
}
}
},
"traits": {
"smithy.api#documentation":
" Describes an identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceSummary": {
"type": "structure",
"members": {
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}

```
            }
        },
        "Status": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The status
of an EC2 instance resource.</p>",
                "smithy.api#required": {}
            }
        },
        "Products": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StringList",
            "traits": {
                "smithy.api#documentation": "<p>A list of provided user-based subscription products.</p>",
                "smithy.api#required": {}
            }
        },
        "LastStatusCheckDate": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The date of the last status check.</p>"
            }
        },
        "StatusMessage": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The status message for an EC2 instance.</p>"
            }

    }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes an EC2 instance providing user-based subscriptions.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
```

"smithy.api#required": {}
}
},
"InstanceId": {
"target": "smithy.api#String",
"traits":
{
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of a user associated with an EC2 instance. ",
"smithy.api#required": {}
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for users of an EC2 instance. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"AssociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was associated with an EC2 instance. "
}
},
"DisassociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was disassociated from an EC2 instance. "

```
            }
          }

  },
        "traits": {
          "smithy.api#documentation": "<p>Describes users of an EC2 instance providing user-based
subscriptions.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InternalServerException": {
        "type": "structure",
        "members": {
          "message": {
            "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
          "smithy.api#error": "server"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
        "type": "service",

       "version": "2018-05-10",
        "operations": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUser"
          },
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            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
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          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
          },
          {
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"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
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{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"

},
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"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
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"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
},
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"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
}
],
"traits": {
"aws.api#service": {
"sdkId": "License Manager User Subscriptions",
"arnNamespace": "license-manager-user-subscriptions",
"cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
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"aws.auth#sigv4": {
"name": "license-manager-user-subscriptions"
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"aws.protocols#restJson1": {},
"smithy.api#cors": {
"additionalAllowedHeaders": [
"*",
"content-type",
"x-amz-content-sha256",
"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",
"x-api-key",
"authorization",
"x-amz-date",
"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",

"x-amzn-requestid",
"x-amzn-trace-id"

]
},
"smithy.api#documentation": " With License Manager, you can create user-based subscriptions to utilize licensed software with\n a per user subscription fee on Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager User Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
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"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
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"rules": [
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"argv": [
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                "ref": "Endpoint"
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"type": "tree",
"rules": [
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                "fn": "booleanEquals",
                "argv": [
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                        "ref": "UseFIPS"
                    },

                true
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            }
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        "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
        "type": "error"
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                "argv": [
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                    true
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"error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
        "type": "error"
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        "conditions": [],
        "endpoint": {
            "url": {
                "ref": "Endpoint"
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                "type": "endpoint"
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    },
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                        "fn": "aws.partition",
                        "argv": [
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                        "assign": "PartitionResult"
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                "type": "tree",

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                                "argv": [
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"ref": "UseDualStack"

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"argv": [
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"fn": "getAttr",

"argv": [
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"ref": "PartitionResult"
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"supportsFIPS"
]
}
]
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"fn": "booleanEquals",
"argv": [
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"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},
"supportsDualStack"
]
}
]
}
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"type": "tree",
"rules": [
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"conditions": [],
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
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{
"conditions": [],
"error": "FIPS and DualStack are enabled, but this partition does not support one or both",
"type": "error"
}
]
},
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
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"ref": "UseFIPS"
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]
}
],
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"argv": [
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{
"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},
"supportsFIPS"

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                    ]
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                    ]
                }
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            "type": "tree",
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fips.{Region}.{PartitionResult#dnsSuffix}",
                        "properties": {},
                        "headers": {}

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                    "type": "endpoint"
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            ]
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            "error": "FIPS is enabled but this partition does not support FIPS",
            "type": "error"
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            "argv": [
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                },
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"fn": "getAttr",
"argv": [
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"ref": "PartitionResult"
},
"supportsDualStack"
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"type": "tree",
"rules": [
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"conditions": [],
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subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
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{
"conditions": [],
"error": "DualStack is enabled but this partition does
not support DualStack",
"type": "error"
}
]
},
{
"conditions": [],
"endpoint": {
"url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
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]
}
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                },
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                    "conditions":
[],
                    "error": "Invalid Configuration: Missing Region",
                    "type": "error"
                }
            ]
        },
        "smithy.rules#endpointTests": {
            "testCases": [
                {
                    "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
                    "expect": {
                        "endpoint": {
                            "url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
                        }
                    },
                    "params": {
                        "Region": "us-east-1",
                        "UseFIPS": true,
                        "UseDualStack": true
                    }
                },
                {
                    "documentation":
"For region us-east-1 with FIPS enabled and DualStack disabled",
                    "expect": {
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                        }
                    },
                    "params": {
                        "Region": "us-east-1",
                        "UseFIPS": true,
                        "UseDualStack": false
                    }
                },
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                    "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
                    "expect": {
                        "endpoint": {
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                        }
                    },

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"UseFIPS": false,
"UseDualStack": true
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"url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with
FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.cn-north-
1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
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"url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
}
},

"params": {
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"UseFIPS": true,
"UseDualStack": false
}
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"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",

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}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1
with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
}
},

"params": {
"Region": "us-gov-east-1",
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"UseDualStack": true
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"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
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"params": {
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"url": "https://license-manager-user-subscriptions.us-gov-east-1.api.aws"
}
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"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": true
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"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect":
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"endpoint": {

"url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
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"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
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"params": {
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"UseDualStack":
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"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"
}
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"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but
this partition does not support one or both"
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"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",

"expect": {
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"params": {
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"UseFIPS": true,
"UseDualStack": false
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"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
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"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
}
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"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
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"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"

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            }
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"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
            "expect": {
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            "params": {
                "UseFIPS": false,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
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            "documentation": "For custom endpoint with fips enabled and dualstack disabled",
            "expect": {
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
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            "params": {
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                 "UseFIPS": true,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
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            "documentation": "For custom endpoint with fips disabled and dualstack enabled",
            "expect": {
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": true,
                "Endpoint": "https://example.com"
            }
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            "documentation": "Missing region",
            "expect": {
                 "error": "Invalid Configuration: Missing Region"
            }
        }
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    "version": "1.0"
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        }
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    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
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        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
        },
        "errors": [
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                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the identity providers for user-based subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/ListIdentityProviders"
            },
            "smithy.api#paginated":
{
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "IdentityProviderSummaries"
            }
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        }
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    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest": {
        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse":
{
        "type": "structure",
        "members": {
            "IdentityProviderSummaries": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the list identity providers operation.</p>",
                    "smithy.api#required": {}
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListInstances": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest"
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        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse"
        },
        "errors": [
            {
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"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
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{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the EC2 instances providing user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/instance/ListInstances"
},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "InstanceSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest": {
"type": "structure",
"members": {
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
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"NextToken": {
"target": "smithy.api#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse": {
"type": "structure",
"members": {
"InstanceSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list instances operation. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},

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            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
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            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the user-based subscription products available from an identity
provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/ListProductSubscriptions"
            },
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "ProductUserSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest": {
        "type": "structure",
        "members": {
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name
 of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
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"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {

"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse": {
"type": "structure",
"members": {
"ProductUserSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list product subscriptions operation. "
}
},

"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target":
"com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists user associations for an identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/ListUserAssociations"
},
"smithy.api#paginated":
{
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "InstanceUserSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest": {
"type": "structure",
"members": {
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based
subscriptions. ",

"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse": {
"type": "structure",
"members": {
"InstanceUserSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list user association operation. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}

```
    }
  },
  "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary": {
    "type": "structure",
    "members": {

    "Username": {
        "target": "smithy.api#String",
        "traits": {
          "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
          "smithy.api#required": {}
        }
      },
      "Product": {
        "target": "smithy.api#String",
        "traits": {
          "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
          "smithy.api#required": {}
        }
      },
      "IdentityProvider": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
        "traits": {
          "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
          "smithy.api#required": {}
        }

},
      "Status": {
        "target": "smithy.api#String",
        "traits": {
          "smithy.api#documentation": "<p>The status of a product for a user.</p>",
          "smithy.api#required": {}
        }
      },
      "StatusMessage": {
        "target": "smithy.api#String",
        "traits": {
          "smithy.api#documentation": "<p>The status message for a product for a user.</p>"
        }
      },
      "Domain": {
        "target": "smithy.api#String",
        "traits": {
          "smithy.api#documentation": "<p>The domain name of the user.</p>"
        }
      },
      "SubscriptionStartDate": {
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"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The
start date of a subscription. "
}
},
"SubscriptionEndDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The end date of a subscription. "
}
}
},
"traits": {
"smithy.api#documentation": " The summary of the user-based subscription products for a user. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{

"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Registers an identity provider for user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/RegisterIdentityProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Settings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings such as the\n subnets to provision VPC endpoints. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary":

{
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the results of an identity provider operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The resource couldn't be found. ",
"smithy.api#error": "client",
"smithy.api#httpError": 404
}
},
"com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
"type": "string",

"traits": {
"smithy.api#length": {
"min": 5,
"max": 200
},
"smithy.api#pattern": "^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request failed because a service quota is exceeded. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#Settings": {
"type": "structure",

"members": {
"Subnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation":
" The subnets defined for the registered identity provider. ",
"smithy.api#length": {
"min": 1
},
"smithy.api#required": {}
}
},
"SecurityGroupId": {
"target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
"traits": {
"smithy.api#documentation": " A security group ID that allows inbound TCP port 1688
communication between resources in\n your VPC and the VPC endpoint for activation servers. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings
such as the\n subnets to provision VPC endpoints, and the security group ID that
is associated with the VPC\n endpoints. The security group should permit inbound TCP port 1688
communication from resources\n in the VPC. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"

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            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Starts a product subscription for a user with the specified identity
provider.</p>\n        <note>\n            <p>Your estimated bill for charges on the number of users and related costs
will take 48\n        hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing status)
in Amazon Web Services Billing.
 For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n        monthly
charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n        </note>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/StartProductSubscription"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                 "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
```

```
            }
          },
          "Domain": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The domain name of the user.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse": {
        "type": "structure",
         "members": {
          "ProductUserSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the start product subscription
operation.</p>",
              "smithy.api#required": {}
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"

    },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
          },
```

```
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Stops a product subscription for a user with the specified identity
provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/StopProductSubscription"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required":
 {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
```

```
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse": {
        "type": "structure",
        "members": {
            "ProductUserSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
                "traits": {
                    "smithy.api#documentation":
 "<p>Metadata that describes the start product subscription operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StringList": {
        "type": "list",
        "member": {
            "target": "smithy.api#String"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#Subnet": {
        "type": "string",
        "traits": {
            "smithy.api#pattern": "subnet-[a-z0-9]{8,17}"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#Subnets": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Subnet"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException": {
        "type": "structure",
        "members": {
            "message": {

             "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request was denied because of request throttling. Retry the
request.</p>",
            "smithy.api#error": "client"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings": {
```

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates additional product configuration settings for the registered identity\n provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/UpdateIdentityProviderSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},

"UpdateSettings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings",
"traits": {
"smithy.api#documentation": " Updates the registered identity providers product related configuration settings. You can\n update any combination of settings in a single operation such as the: \n \n \n Subnets which you want to add to provision VPC endpoints. \n \n \n Subnets which you want to remove the VPC endpoints from. \n \n \n Security group ID which permits traffic to the VPC endpoints. \n \n ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateSettings": {
"type": "structure",
"members": {
"AddSubnets": {

"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " The ID of one or more subnets in which License Manager will create a VPC endpoint for products that\n require connectivity to activation servers. ",
"smithy.api#required": {}
}
},
"RemoveSubnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " The ID of one or more subnets to remove. ",
"smithy.api#required": {}
}
},
"SecurityGroupId": {
"target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
"traits": {
"smithy.api#documentation": " A security group ID

that allows inbound TCP port 1688 communication between resources in\n your VPC and the VPC endpoints for activation servers. "
}
}
},
"traits": {
"smithy.api#documentation": " Updates the registered identity providers product related configuration settings such as\n the subnets to provision VPC endpoints. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ValidationException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " A parameter is not valid. ",
"smithy.api#error": "client"
}
}
}
}
{
"smithy": "2.0",
"metadata": {
"suppressions": [
{
"id": "HttpMethodSemantics",
"namespace": "*"
},
{
"id": "HttpResponseCodeSemantics",
"namespace": "*"
},
{
"id": "PaginatedTrait",
"namespace": "*"
},
{
"id": "HttpHeaderTrait",
"namespace": "*"
},
{
"id": "HttpUriConflict",
"namespace": "*"
},

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        {
          "id": "Service",
          "namespace": "*"
        }
      ]
    },
    "shapes": {
      "com.amazonaws.licensemanager#AWSLicenseManager": {
        "type": "service",
        "version": "2018-08-01",
        "operations": [
          {
            "target": "com.amazonaws.licensemanager#AcceptGrant"
          },

 {
            "target": "com.amazonaws.licensemanager#CheckInLicense"
          },
          {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
          },
          {
            "target": "com.amazonaws.licensemanager#CheckoutLicense"
          },
          {
            "target": "com.amazonaws.licensemanager#CreateGrant"
          },
          {
            "target": "com.amazonaws.licensemanager#CreateGrantVersion"
          },
          {
            "target": "com.amazonaws.licensemanager#CreateLicense"
          },
          {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
          },
          {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
          },
          {
            "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
           },
          {
            "target": "com.amazonaws.licensemanager#CreateLicenseVersion"
          },
          {
            "target": "com.amazonaws.licensemanager#CreateToken"
          },
```

```
    {
      "target": "com.amazonaws.licensemanager#DeleteGrant"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicense"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteToken"
    },
    {
      "target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

  },
    {
      "target": "com.amazonaws.licensemanager#GetAccessToken"
    },
    {
      "target": "com.amazonaws.licensemanager#GetGrant"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicense"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseUsage"
    },
    {
      "target": "com.amazonaws.licensemanager#GetServiceSettings"
    },
    {
      "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#ListDistributedGrants"
```

```
},
{
   "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
},
{
   "target": "com.amazonaws.licensemanager#ListLicenseConfigurations"
},
{
   "target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
},
{
   "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
},
{
   "target": "com.amazonaws.licensemanager#ListLicenses"
},
{
   "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
},
{

 "target": "com.amazonaws.licensemanager#ListLicenseVersions"
},
{
   "target": "com.amazonaws.licensemanager#ListReceivedGrants"
},
{
   "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganization"
},
{
   "target": "com.amazonaws.licensemanager#ListReceivedLicenses"
},
{
   "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization"
},
{
   "target": "com.amazonaws.licensemanager#ListResourceInventory"
},
{
   "target": "com.amazonaws.licensemanager#ListTagsForResource"
},
{
   "target": "com.amazonaws.licensemanager#ListTokens"
},
{
   "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
 },
{
```

"target": "com.amazonaws.licensemanager#RejectGrant"
},
{
"target": "com.amazonaws.licensemanager#TagResource"
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{
"target": "com.amazonaws.licensemanager#UntagResource"
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{
"target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
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"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
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"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
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"target": "com.amazonaws.licensemanager#UpdateServiceSettings"
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"traits": {
"aws.api#service": {
"sdkId": "License Manager",
"arnNamespace": "license-manager",
"cloudFormationName": "LicenseManager",
"cloudTrailEventSource": "licensemanager.amazonaws.com",
"endpointPrefix": "license-manager"
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"aws.auth#sigv4": {
"name": "license-manager"
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"aws.protocols#awsJson1_1": {},
"smithy.api#documentation": " License Manager makes it easier to manage licenses from software vendors across multiple \n Amazon Web Services accounts and on-premises servers. ",
"smithy.api#title": "AWS License Manager",
"smithy.api#xmlNamespace": {
"uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
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"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
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"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
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"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
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"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
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"fn": "isSet",
"argv": [
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"ref": "Endpoint"
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"fn": "booleanEquals",
"argv": [
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"ref": "UseFIPS"
},
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        "type": "error"
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        "type": "error"
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        "conditions": [],
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                "ref": "Endpoint"
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            "headers": {}
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        "type": "endpoint"
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        "argv": [
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            }
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"ref": "PartitionResult"
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"supportsFIPS"
]

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"argv": [
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"properties": {},
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"type": "endpoint"
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"conditions": [],
"error": "FIPS and DualStack are enabled, but this partition does not support one or both",
"type": "error"
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            "fn": "getAttr",
            "argv": [
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              "supportsFIPS"
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          "properties": {},
          "headers": {}
        },
        "type": "endpoint"
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partition does not support FIPS",
                        "type": "error"
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                        "argv": [
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                                        "fn": "getAttr",
                                        "argv": [
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                                                "ref": "PartitionResult"
                                            },

    "supportsDualStack"
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                                ]
                            }
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manager.{Region}.{PartitionResult#dualStackDnsSuffix}",
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                "type": "endpoint"
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        "type": "error"
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        "headers": {}
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    "type": "error"
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            "expect": {
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                    "url": "https://license-manager.af-south-1.amazonaws.com"
                }
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            "params": {
                "Region": "af-south-1",
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      "documentation": "For region ap-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
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          "url": "https://license-manager.ap-east-1.amazonaws.com"
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      "params": {
        "Region": "ap-east-1",
        "UseFIPS": false,
        "UseDualStack": false
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      "documentation": "For region ap-northeast-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
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        }
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      "params": {
        "Region": "ap-northeast-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
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      "documentation": "For region ap-northeast-2 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-northeast-2.amazonaws.com"
        }
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      "params": {
        "Region": "ap-northeast-2",
        "UseFIPS": false,
        "UseDualStack": false
      }
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      "documentation": "For region ap-northeast-3 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-northeast-3.amazonaws.com"
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            "params": {
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                "UseFIPS": false,
                "UseDualStack": false
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            "params": {
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                "UseDualStack": false
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            "expect": {
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            "params": {
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                "UseFIPS": false,
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{

"documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-southeast-3.amazonaws.com"
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"params": {
"Region": "ap-southeast-3",
"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region ca-central-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ca-central-1.amazonaws.com"
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"params": {
"Region": "ca-central-1",
"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
"expect": {
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"url": "https://license-manager.eu-central-1.amazonaws.com"
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"params": {
"Region": "eu-central-1",
"UseFIPS": false,
"UseDualStack": false
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disabled and DualStack disabled",
"expect": {
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            },
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              "UseFIPS": false,
              "UseDualStack": false
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            "documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
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            "params": {
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              "UseDualStack": false
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            "documentation": "For region eu-west-2 with FIPS disabled and DualStack disabled",
            "expect": {

            "endpoint": {
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            "params": {
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              "UseDualStack": false
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          "params": {
            "Region": "eu-west-3",
            "UseFIPS": false,

"UseDualStack": false
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          "documentation": "For region me-south-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.me-south-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "me-south-1",
            "UseFIPS": false,
            "UseDualStack": false
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          "documentation": "For region sa-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.sa-east-1.amazonaws.com"
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          "params": {
            "Region": "sa-east-1",
            "UseFIPS": false,
            "UseDualStack": false
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          "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.us-east-1.amazonaws.com"
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"UseDualStack": false
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"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false
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"documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",
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"url": "https://license-manager.us-east-2.amazonaws.com"
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"params": {
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"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region us-east-2 with FIPS enabled and DualStack disabled",
"expect": {
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"url": "https://license-manager-fips.us-east-2.amazonaws.com"
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"params": {
"Region": "us-east-2",
"UseFIPS": true,
"UseDualStack": false
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"documentation": "For region

us-west-1 with FIPS disabled and DualStack disabled",
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"url": "https://license-manager.us-west-1.amazonaws.com"
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"params": {
"Region": "us-west-1",
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"UseDualStack": false
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"documentation": "For region us-west-1 with FIPS enabled and DualStack disabled",
"expect": {
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"params": {

"Region": "us-west-1",
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"UseDualStack": false
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"UseDualStack": false
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"params": {

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            "UseDualStack": false
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        "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-fips.us-east-1.api.aws"
            }
        },
        "params": {
            "Region": "us-east-1",
            "UseFIPS": true,

            "UseDualStack": true
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        "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.us-east-1.api.aws"
            }
        },
        "params": {
            "Region": "us-east-1",
            "UseFIPS": false,
            "UseDualStack": true
        }
    },
    {
        "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url":
"https://license-manager.cn-north-1.amazonaws.com.cn"
            }
        },
        "params": {
            "Region": "cn-north-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
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"params": {
"Region": "cn-northwest-1",
"UseFIPS": false,
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{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
"expect": {
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}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
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"url": "https://license-manager-fips.cn-north-1.amazonaws.com.cn"
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"params": {
"Region": "cn-north-1",
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"UseDualStack": false
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"url": "https://license-manager.cn-north-1.api.amazonwebservices.com.cn"
}
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"params": {
"Region": "cn-north-1",
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"UseDualStack": true
}
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{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-gov-east-1.amazonaws.com"
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"params": {
"Region": "us-gov-east-1",
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"UseDualStack": false
}
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"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
}
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"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": false
}
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{
"documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-gov-west-1.amazonaws.com"
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"params": {
"Region": "us-gov-west-1",
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"For region us-gov-west-1 with FIPS enabled and DualStack disabled",
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"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
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"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
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"url": "https://license-manager.us-gov-east-1.api.aws"
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"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": true
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{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack
disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false

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            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": true,
                 "UseDualStack": true
            }
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            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
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                    "url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
                }
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": true,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
                "error": "DualStack is enabled
but this partition does not support DualStack"
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": false,
                "UseDualStack": true
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            "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
                }
            },
            "params": {
                "Region": "us-isob-east-1",
                "UseFIPS": false,
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"UseDualStack": false
}
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{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
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"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
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"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
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"endpoint": {
"url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
}
},

"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
}
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{
"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",

"expect": {
"endpoint": {
"url": "https://example.com"
}
},

"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,

"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips disabled and dualstack enabled",
"expect": {
"error":
"Invalid Configuration: Dualstack and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true,
"Endpoint": "https://example.com"
}
},
{

"documentation": "Missing region",
"expect": {
"error": "Invalid Configuration: Missing Region"
}
}
],
"version": "1.0"
}
}
},
"com.amazonaws.licensemanager#AcceptGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#AcceptGrantRequest"

},
"output": {
"target": "com.amazonaws.licensemanager#AcceptGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"

}
],
"traits": {
"smithy.api#documentation": " Accepts the specified grant. "
}
},
"com.amazonaws.licensemanager#AcceptGrantRequest": {

```
        "type": "structure",
        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#AcceptGrantResponse": {
        "type": "structure",
        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Grant
ARN.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": "<p>Grant status.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Grant version.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#AccessDeniedException": {
        "type": "structure",
        "members": {
          "Message": {
            "target": "com.amazonaws.licensemanager#Message"
          }
        },
```

"traits": {
"aws.protocols#awsQueryError": {

"code": "ServiceAccessDenied",
"httpResponseCode": 401
},
"smithy.api#documentation": " Access to resource denied. ",
"smithy.api#error": "client",
"smithy.api#httpError": 401
}
},
"com.amazonaws.licensemanager#ActivationOverrideBehavior": {
"type": "enum",
"members": {
"DISTRIBUTED_GRANTS_ONLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DISTRIBUTED_GRANTS_ONLY"
}
},
"ALL_GRANTS_PERMITTED_BY_ISSUER": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ALL_GRANTS_PERMITTED_BY_ISSUER"
}
}
}
},
"com.amazonaws.licensemanager#AllowedOperation": {

"type": "enum",
"members": {
"CREATE_GRANT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CreateGrant"
}
},
"CHECKOUT_LICENSE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CheckoutLicense"
}
},
"CHECKOUT_BORROW_LICENSE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CheckoutBorrowLicense"

```
            }
          },
          "CHECK_IN_LICENSE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "CheckInLicense"
            }
          },
          "EXTEND_CONSUMPTION_LICENSE":
{
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "ExtendConsumptionLicense"
            }
          },
          "LIST_PURCHASED_LICENSES": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "ListPurchasedLicenses"
            }
          },
          "CREATE_TOKEN": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "CreateToken"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#AllowedOperationList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#AllowedOperation"
        },
        "traits": {
          "smithy.api#length": {
            "min": 1,
            "max":
7
          }
        }
      },
      "com.amazonaws.licensemanager#Arn": {
        "type": "string",
        "traits": {
          "smithy.api#length": {
            "min": 0,
            "max": 2048
```

```
            },
            "smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
        }
    },
    "com.amazonaws.licensemanager#ArnList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Arn"
        }
    },
    "com.amazonaws.licensemanager#AuthorizationException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError":
 {
                "code": "AuthorizationFailure",
                "httpResponseCode": 403
            },
            "smithy.api#documentation": "<p>The Amazon Web Services user account does not have permission to perform the action. Check the IAM\n        policy associated with this account.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 403
        }
    },
    "com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
        "type": "structure",
        "members": {
            "LastRunTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time that automated discovery last ran.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes automated discovery.</p>"
        }
    },

  "com.amazonaws.licensemanager#Boolean": {
        "type": "boolean",
        "traits": {
```

```
            "smithy.api#default": false
        }
    },
    "com.amazonaws.licensemanager#BorrowConfiguration": {
        "type": "structure",
        "members": {
            "AllowEarlyCheckIn": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether early check-ins are allowed.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxTimeToLiveInMinutes": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum time for the borrow configuration, in minutes.</p>",
                    "smithy.api#required": {}
                }
            }

},
        "traits": {
            "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#BoxBoolean": {
        "type": "boolean"
    },
    "com.amazonaws.licensemanager#BoxInteger": {
        "type": "integer"
    },
    "com.amazonaws.licensemanager#BoxLong": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#CheckInLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
```

"target": "com.amazonaws.licensemanager#AuthorizationException"

},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks in the specified license. Check in a license when it is no longer in use. "
}
},
"com.amazonaws.licensemanager#CheckInLicenseRequest":
{
"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
}
},
"traits": {
"smithy.api#input": {}
}

```
    },
    "com.amazonaws.licensemanager#CheckInLicenseResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicense":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {
                "target":
"com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
        "type": "structure",
        "members":
 {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The license must
use the borrow consumption configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements. Partial checkouts are not supported.</p>",
                    "smithy.api#required": {}
                }
            },
            "DigitalSignatureMethod": {
                "target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
                "traits": {
                    "smithy.api#documentation": "<p>Digital signature method. The possible
 value is JSON Web Signature (JWS) algorithm PS384.\n        For more information, see <a
href=\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital Signature with RSASSA-PSS</a>.</p>",
                    "smithy.api#required": {}
                }
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Node ID.</p>"
                }
            },
            "CheckoutMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about constraints.</p>"
                }
```

```
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation":
"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>"
                }
            },
            "EntitlementsAllowed":
{
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
                }
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Node ID.</p>"
                }
            },
            "SignedToken": {
                "target": "com.amazonaws.licensemanager#SignedToken",
                "traits": {
                    "smithy.api#documentation": "<p>Signed token.</p>"
                }
            },
```

"IssuedAt": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout
is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout expires. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about constraints. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},

```
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target":
 "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license.</p>\n        <note>\n            <p>If the
account that created the license is the same that is performing the check out, you must\n            specify the account
as the beneficiary.</p>\n        </note>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutLicenseRequest": {
        "type": "structure",
        "members": {
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product
 SKU.</p>",
                    "smithy.api#required": {}
                }
            },
            "CheckoutType": {
                "target": "com.amazonaws.licensemanager#CheckoutType",
                "traits": {
                    "smithy.api#documentation": "<p>Checkout type.</p>",
                    "smithy.api#required": {}
                }
            },
            "KeyFingerprint": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Key fingerprint identifying the license.</p>",
                    "smithy.api#required": {}
                }
            },
```

"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " License entitlements. ",

"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
"type": "structure",
"members": {
"CheckoutType": {
"target": "com.amazonaws.licensemanager#CheckoutType",
"traits": {
"smithy.api#documentation": " Checkout type. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}

```
            },
            "EntitlementsAllowed": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
                }
            },
             "SignedToken": {
                "target": "com.amazonaws.licensemanager#SignedToken",
                "traits": {
                    "smithy.api#documentation": "<p>Signed token.</p>"
                }
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Node ID.</p>"
                }
            },
            "IssuedAt": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
                }
            },
            "Expiration": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and
time at which the license checkout expires.</p>"
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the checkout license.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutType": {
        "type": "enum",
        "members": {
            "PROVISIONAL": {
                "target": "smithy.api#Unit",
```

"traits": {
"smithy.api#enumValue": "PROVISIONAL"
}
},
"PERPETUAL": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PERPETUAL"
}
}
}
},
"com.amazonaws.licensemanager#ClientRequestToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 36
}
}
},
"com.amazonaws.licensemanager#ClientToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 2048
},
"smithy.api#pattern": "^\\S+$"
}
},
"com.amazonaws.licensemanager#ConflictException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "ConflictException",
"httpResponseCode":
409
},
"smithy.api#documentation": " There was a conflict processing the request. Try your request again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 409

```
        }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummary": {
        "type": "structure",
        "members": {
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
                }
            },
            "ConsumedLicenses": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
                }
            }
        },

"traits": {
            "smithy.api#documentation": "<p>Details about license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
        }
    },
    "com.amazonaws.licensemanager#ConsumptionConfiguration": {
        "type": "structure",
        "members": {
            "RenewType": {
                "target": "com.amazonaws.licensemanager#RenewType",
                "traits": {
                    "smithy.api#documentation": "<p>Renewal frequency.</p>"
                }
            },
            "ProvisionalConfiguration": {
                "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
                 }
            },
            "BorrowConfiguration": {
                "target": "com.amazonaws.licensemanager#BorrowConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
```

```
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target":
 "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a grant for the specified license. A grant shares the use of
license\n        entitlements with a specific Amazon Web Services account, an organization, or an\n
organizational unit (OU). For more
 information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-
licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantRequest": {
```

"type": "structure",
"members": {
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}

}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Principals": {
"target": "com.amazonaws.licensemanager#PrincipalArnList",
"traits": {
"smithy.api#documentation": " The grant principals. You can specify one of the following as an Amazon Resource Name\n (ARN): \n \n \n An Amazon Web Services account, which includes only the account specified. \n \n \n \n \n An organizational unit (OU), which includes all accounts in the OU. \n \n \n \n
\n An organization, which will include all accounts across your organization. \n \n ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {

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                "smithy.api#documentation": "<p>Allowed operations for the grant.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},

"com.amazonaws.licensemanager#CreateGrantResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateGrantVersion":
{
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified grant. For more information, see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersionRequest": {
        "type": "structure",
        "members": {
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",

    "smithy.api#required": {}
                }
            },
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
```

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            "smithy.api#documentation": "<p>Grant name.</p>"
          }
        },
        "AllowedOperations": {
          "target": "com.amazonaws.licensemanager#AllowedOperationList",
          "traits": {
            "smithy.api#documentation": "<p>Allowed operations for the grant.</p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#GrantStatus",
           "traits": {
            "smithy.api#documentation": "<p>Grant status.</p>"
          }
        },
        "StatusReason": {
          "target": "com.amazonaws.licensemanager#StatusReasonMessage",
          "traits": {
            "smithy.api#documentation": "<p>Grant status reason.</p>"
          }
        },
        "SourceVersion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Current version of the grant.</p>"
          }
        },
        "Options": {
          "target": "com.amazonaws.licensemanager#Options",
          "traits": {
            "smithy.api#documentation": "<p>The options specified for the grant.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#CreateGrantVersionResponse": {
      "type": "structure",
      "members": {
        "GrantArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Grant ARN.</p>"
          }
        },
        "Status": {
```

```
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>New version of the grant.</p>"
            }
        }
    },
    "traits":
{
        "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#CreateLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
         },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
```

"traits": {
"smithy.api#documentation": " Creates a license. "
}
},
"com.amazonaws.licensemanager#CreateLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Creates a license configuration. \n A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), license affinity to host (how long a \n license must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. ",

"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension used to track the license inventory. ",
"smithy.api#required": {}
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether hard or soft license enforcement is used. Exceeding a hard limit\n blocks the launch of new instances. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules \n vary by dimension, as follows. \n \n \n \n <code>Cores</code> dimension: <code>allowedTenancy</code> |\n <code>licenseAffinityToHost</code> |\n <code>maximumCores</code> | <code>minimumCores</code>\n \n \n \n \n <code>Instances</code> dimension: <code>allowedTenancy</code> | \n <code>maximumCores</code> | <code>minimumCores</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code> |\n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n \n <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n <code>licenseAffinityToHost</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code>\n \n \n \n \n <code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n <code>honorVcpuOptimization</code> | \n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n The unit for

<code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n <code>True</code> and <code>False</code>. "
}
},

"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the license configuration. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
"type": "operation",

"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a new license conversion task. "
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {

"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource you are converting the license type for. ",
"smithy.api#required": {}
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information that identifies the license type you are converting from. \n\n For the structure of the source license, see Convert a license type using the CLI in

the License Manager User Guide. ",
"smithy.api#required": {}
}
},
"DestinationLicenseContext":
{
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information that identifies the license type you are converting to. For the structure of the destination license, see Convert a license type using the CLI in the License Manager User Guide. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",

"traits": {
"smithy.api#documentation": " The ID of the created license type conversion task. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a report generator. "
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"ReportGeneratorName":
{
"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports to generate. The following report types an be generated: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}

}
},

"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " Defines the type of license configuration the report generator tracks. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " The Amazon Resource Name (ARN) of the new report generator. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseRequest": {
"type": "structure",
"members": {
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. ",
"smithy.api#required": {}
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. ",
"smithy.api#required": {}
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. ",
"smithy.api#required": {}
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#Issuer",
"traits": {
"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region for the license. ",
"smithy.api#required": {}

}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
}
},

```
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseResponse": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
            }
        },
        "Version": {
             "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseVersion": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target":
"com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product name.</p>",
                    "smithy.api#required": {}
                }
            },
            "Issuer": {
                "target": "com.amazonaws.licensemanager#Issuer",
```

"traits":
{
"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the license. ",
"smithy.api#required": {}
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},

"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. ",

"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. "
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New version of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
}
},
"traits": {
"smithy.api#output":

{}
}
},
"com.amazonaws.licensemanager#CreateToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},

{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a long-lived token. \n A refresh token is a JWT token used to get an access token. With an access token,\n you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n call License Manager to manage the specified license. "
}
},
"com.amazonaws.licensemanager#CreateTokenRequest": {
"type": "structure",
"members": {
"LicenseArn": {

"target": "com.amazonaws.licensemanager#Arn",
"traits":
{
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n JWT token. ",
"smithy.api#required": {}
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n License Manager does not check whether the roles are in use. "
}
},
"ExpirationInDays": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Token expiration, in days, counted from token creation. The default is 365 days. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller to be included in the JWT token. The data is mapped\n to the amr claim of the JWT token. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Idempotency token, valid for 10 minutes. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateTokenResponse": {
"type": "structure",
"members": {
"TokenId": {
"target": "com.amazonaws.licensemanager#String",

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        "traits": {
            "smithy.api#documentation": "<p>Token ID.</p>"
        }
      },
      "TokenType": {
        "target": "com.amazonaws.licensemanager#TokenType",
        "traits": {
            "smithy.api#documentation": "<p>Token type.</p>"
        }
      },
      "Token": {
        "target": "com.amazonaws.licensemanager#TokenString",
        "traits": {
            "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#DateTime": {
    "type": "timestamp"
  },
  "com.amazonaws.licensemanager#DatetimeRange": {
    "type": "structure",
    "members": {
      "Begin": {
        "target": "com.amazonaws.licensemanager#ISO8601DateTime",
        "traits": {
            "smithy.api#documentation": "<p>Start of the time range.</p>",
            "smithy.api#required": {}
        }
      },
      "End": {
        "target": "com.amazonaws.licensemanager#ISO8601DateTime",
        "traits": {
            "smithy.api#documentation": "<p>End of the time range.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC format.</p>"
    }
  },
  "com.amazonaws.licensemanager#DeleteGrant": {
    "type": "operation",
    "input": {
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"target": "com.amazonaws.licensemanager#DeleteGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes
the specified grant. "
}
},
"com.amazonaws.licensemanager#DeleteGrantRequest": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " The Status reason for the delete request. "
}

```
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the
grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
"<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
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        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"

},
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#RedirectException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Deletes the specified license.</p>"
        }
      },
      "com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
        },

      "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
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            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified license configuration.</p>\n        <p>You cannot
delete a license configuration that is in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
        "type": "structure",
        "members":
{
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
         },
        "errors": [
            {
```

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified report generator. \n This action deletes the report generator, which stops it from generating future reports.\n The action cannot be reversed. It has no effect on the previous reports from this generator. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to be deleted. ",
"smithy.api#required": {}
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {

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        "type": "structure",
        "members": {},
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#DeleteLicenseRequest": {
        "type": "structure",
        "members": {
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
              "smithy.api#required": {}
            }
          },
          "SourceVersion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Current version of the license.</p>",
              "smithy.api#required":
{}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#DeleteLicenseResponse": {
        "type": "structure",
        "members": {
          "Status": {
            "target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
            "traits": {
              "smithy.api#documentation": "<p>License status.</p>"
            }
          },
          "DeletionDate": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Date when the license is deleted.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
```

```
    },
    "com.amazonaws.licensemanager#DeleteToken": {
      "type": "operation",
       "input": {
        "target": "com.amazonaws.licensemanager#DeleteTokenRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#DeleteTokenResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },

    {
          "target": "com.amazonaws.licensemanager#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
      }
    },
    "com.amazonaws.licensemanager#DeleteTokenRequest": {
      "type": "structure",
      "members": {
        "TokenId": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token ID.</p>",
            "smithy.api#required": {}
          }
        }
```

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        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteTokenResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}

      }
    },
    "com.amazonaws.licensemanager#DigitalSignatureMethod": {
        "type": "enum",
        "members": {
            "JWT_PS384": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "JWT_PS384"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#Entitlement": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement name.</p>",
                    "smithy.api#required": {}
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement resource. Use only
if the unit is None.</p>"
                }
            },
            "MaxCount": {
                "target": "com.amazonaws.licensemanager#Long",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
                }
            },
            "Overage": {
```

"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether overages are allowed. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementUnit",
"traits": {
"smithy.api#documentation": " Entitlement unit. ",
"smithy.api#required": {}
}
},
"AllowCheckIn": {
"target":
"com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether check-ins are allowed. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a resource entitled for use with a license. "
}
},
"com.amazonaws.licensemanager#EntitlementData": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement data name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement
data value. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementDataUnit",
"traits": {
"smithy.api#documentation": " Entitlement data unit. ",
"smithy.api#required": {}
}
}

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        },
        "traits": {
            "smithy.api#documentation": "<p>Data associated with an entitlement resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementDataList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#EntitlementData"
        }
    },
    "com.amazonaws.licensemanager#EntitlementDataUnit": {
        "type": "enum",
        "members": {
            "COUNT": {
                "target": "smithy.api#Unit",
                "traits": {

"smithy.api#enumValue": "Count"
                }
            },
            "NONE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "None"
                }
            },
            "SECONDS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Seconds"
                }
            },
            "MICROSECONDS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Microseconds"
                }
            },
            "MILLISECONDS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Milliseconds"
                }
            },
            "BYTES": {
                "target": "smithy.api#Unit",
```

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            "traits": {
                "smithy.api#enumValue": "Bytes"
            }
        },
        "KILOBYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobytes"
            }
        },
        "MEGABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabytes"
            }
        },
        "GIGABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Gigabytes"
            }
        },
        "TERABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabytes"
            }
        },
        "BITS":
{
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bits"
            }
        },
        "KILOBITS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobits"
            }
        },
        "MEGABITS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabits"
            }
        },
        "GIGABITS": {
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            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Gigabits"
            }
        },
        "TERABITS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabits"

}
        },
        "PERCENT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Percent"
            }
        },
        "BYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bytes/Second"
            }
        },
        "KILOBYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobytes/Second"
            }
        },
        "MEGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabytes/Second"
            }
        },
        "GIGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "Gigabytes/Second"
            }
        },
        "TERABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabytes/Second"
            }
        },
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            "BITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Bits/Second"
                }
            },
            "KILOBITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Kilobits/Second"
                }
            },
            "MEGABITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue":
"Megabits/Second"
                }
            },
            "GIGABITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Gigabits/Second"
                }
            },
            "TERABITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Terabits/Second"
                }
            },
            "COUNT_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Count/Second"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#EntitlementList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Entitlement"
        }
    },
    "com.amazonaws.licensemanager#EntitlementNotAllowedException":
{
        "type": "structure",
```

```
        "members": {
          "Message": {
            "target": "com.amazonaws.licensemanager#Message"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The entitlement is not allowed.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 400
        }
      },
      "com.amazonaws.licensemanager#EntitlementUnit": {
        "type": "enum",
        "members": {
          "COUNT": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Count"
            }
          },
          "NONE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "None"
            }
          },
          "SECONDS":
{
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Seconds"
            }
          },
          "MICROSECONDS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Microseconds"
            }
          },
          "MILLISECONDS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Milliseconds"
            }
          },
          "BYTES": {
            "target": "smithy.api#Unit",
            "traits": {
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"smithy.api#enumValue": "Bytes"
}
},
"KILOBYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes"
}
},
"MEGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes"
}
},
"GIGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes"
}
},
"TERABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabytes"
}
},
"BITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits"
}
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"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Kilobits"
}
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"MEGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits"
}
},
"GIGABITS": {
"target": "smithy.api#Unit",

"traits": {
"smithy.api#enumValue": "Gigabits"
}
},
"TERABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits"
}
},
"PERCENT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Percent"
}
},
"BYTES_PER_SECOND": {
"target":
"smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes/Second"
}
},
"KILOBYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes/Second"
}
},
"MEGABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes/Second"
}
},
"GIGABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes/Second"
}
},
"TERABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Terabytes/Second"
}
},

```
        "BITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bits/Second"
            }
        },
        "KILOBITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobits/Second"
            }
        },
        "MEGABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabits/Second"
            }
        },
        "GIGABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Gigabits/Second"
            }
        },

    "TERABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabits/Second"
            }
        },
        "COUNT_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Count/Second"
            }
        }
    }
},
"com.amazonaws.licensemanager#EntitlementUsage": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage name.</p>",
                "smithy.api#required": {}
            }
```

```
            },
            "ConsumedValue": {
                "target": "com.amazonaws.licensemanager#String",

            "traits": {
                    "smithy.api#documentation": "<p>Resource usage consumed.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxCount": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
                }
            },
            "Unit": {
                "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementUsageList":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#EntitlementUsage"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumption": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",
                    "smithy.api#required": {}

      }
            },
            "DryRun": {
                "target": "com.amazonaws.licensemanager#Boolean",
                "traits": {
                    "smithy.api#default": false,
                    "smithy.api#documentation": "<p>Checks whether you have the required permissions for the action,
without actually making the request. Provides an error response if you do not have the required permissions.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
        "type": "structure",
        "members": {
```

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            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>"
                }
            },

            "Expiration": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license consumption expires.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#FailedDependencyException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            },
            "ErrorCode": {
                "target": "com.amazonaws.licensemanager#String"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "FailedDependency",
                "httpResponseCode": 424
            },
            "smithy.api#documentation":
"<p>A dependency required to run the API is missing.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 424
        }
    },
    "com.amazonaws.licensemanager#Filter": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#FilterName",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the filter. Filter names are case-sensitive.</p>"
                }
            },
```

"Values": {
"target": "com.amazonaws.licensemanager#FilterValues",
"traits": {
"smithy.api#documentation": " The value of the filter, which is case-sensitive. You can only specify one value for the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter name and value pair that is used to return more specific results from a\n describe operation. Filters can be used to match a set of resources by specific criteria,\n such as tags, attributes, or IDs. "
}
},
"com.amazonaws.licensemanager#FilterLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "FilterLimitExceeded",
"httpResponseCode": 400
},
"smithy.api#documentation": " The request uses too many filters or too many filter values. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Filter"
}
},
"com.amazonaws.licensemanager#FilterName": {
"type": "string"
},
"com.amazonaws.licensemanager#FilterValue": {
"type": "string"
},
"com.amazonaws.licensemanager#FilterValues": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#FilterValue",
"traits": {

"smithy.api#xmlName": "item"
}
}
},
"com.amazonaws.licensemanager#Filters": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Filter",
"traits": {
"smithy.api#xmlName": "item"
}
}
},
"com.amazonaws.licensemanager#GetAccessToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets a temporary access token to use with
AssumeRoleWithWebIdentity. Access
tokens\n are valid for one hour. "
}
},
"com.amazonaws.licensemanager#GetAccessTokenRequest": {
"type": "structure",
"members": {
"Token": {

```
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>",
                    "smithy.api#required": {}
                }
            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Token properties to validate against those present in the JWT
token.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenResponse":
 {
        "type": "structure",
        "members": {
            "AccessToken": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Temporary access token.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
```

```
    },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
        "Grant": {
            "target": "com.amazonaws.licensemanager#Grant",
            "traits": {
```

"smithy.api#documentation": " Grant details. "
}
}
},
"traits": {

"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"

},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license configuration. "
}
},
"com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
}
},
"traits":
{
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Unique ID for the license configuration. "

```
    }
},
"LicenseConfigurationArn": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
        "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    }
},
"Name": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
        "smithy.api#documentation": "<p>Name of the license configuration.</p>"
     }
},
"Description": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
        "smithy.api#documentation": "<p>Description of the license configuration.</p>"
    }
},
"LicenseCountingType": {
    "target": "com.amazonaws.licensemanager#LicenseCountingType",
    "traits": {
        "smithy.api#documentation": "<p>Dimension for which the licenses are counted.</p>"
    }
},
"LicenseRules": {
    "target": "com.amazonaws.licensemanager#StringList",
    "traits": {
        "smithy.api#documentation": "<p>License rules.</p>"
    }
},
"LicenseCount": {
    "target": "com.amazonaws.licensemanager#BoxLong",

   "traits": {
        "smithy.api#documentation": "<p>Number of available licenses.</p>"
    }
},
"LicenseCountHardLimit": {
    "target": "com.amazonaws.licensemanager#BoxBoolean",
    "traits": {
        "smithy.api#documentation": "<p>Sets the number of available licenses as a hard limit.</p>"
    }
},
"ConsumedLicenses": {
    "target": "com.amazonaws.licensemanager#BoxLong",
    "traits": {
```

"smithy.api#documentation": " Number of licenses assigned to resources. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License configuration status. "
}

},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the owner of the license configuration. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the licenses consumed by resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the managed resources. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags for the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",

"traits": {
"smithy.api#documentation": " When
true, disassociates a resource when software is uninstalled. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTask": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets information about the specified license type conversion task. "
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task to retrieve information
on. ",

"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the resources the license conversion task is associated with. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted to. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
"traits": {
"smithy.api#documentation": " Status of the license type conversion task. "
}

```
            },

  "StartTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time at which the license type conversion task was started .</p>"
                }
            },
            "LicenseConversionTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Amount of time to complete the license type conversion.</p>"
                }
            },
            "EndTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time at which the license type conversion task was
completed.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator":
 {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets information about the specified report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>",
                    "smithy.api#required":
{}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {
            "ReportGenerator": {
                "target": "com.amazonaws.licensemanager#ReportGenerator",
                "traits": {
                    "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
```

```
    },
    "com.amazonaws.licensemanager#GetLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {

"smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseResponse": {
        "type": "structure",
        "members": {
            "License": {
                "target": "com.amazonaws.licensemanager#License",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },

  "com.amazonaws.licensemanager#GetLicenseUsage": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
        },
        "errors": [
            {
```

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the usage of the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseUsageRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseUsageResponse": {
"type": "structure",
"members": {
"LicenseUsage": {
"target":
"com.amazonaws.licensemanager#LicenseUsage",
"traits": {
"smithy.api#documentation": " License usage details. "
}
}

```
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets the License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsRequest": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Regional S3 bucket path for storing reports, license trail event data,
discovery data,\n        and so on.</p>"
```

```
 }
            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>SNS topic configured to receive notifications from License
Manager.</p>"
                }
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether Organizations is integrated with License
Manager for\n        cross-account discovery.</p>"
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether cross-account discovery is enabled.</p>"
                }

        },
            "LicenseManagerResourceShareArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource share. The License
Manager management account \n        provides member accounts with access to this share.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#Grant": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}
}
},
"ParentArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Parent ARN. ",
"smithy.api#required": {}
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. ",
"smithy.api#required": {}
}
},
"GranteePrincipalArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {

"smithy.api#documentation": " The grantee principal ARN. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"GrantStatus": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},

```
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantedOperations": {
                "target": "com.amazonaws.licensemanager#AllowedOperationList",
                "traits": {
                    "smithy.api#documentation": "<p>Granted operations.</p>",
                    "smithy.api#required": {}
                }
            },
            "Options": {
                "target": "com.amazonaws.licensemanager#Options",
                "traits": {
                    "smithy.api#documentation": "<p>The options specified for the grant.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation":
"<p>Describes a grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#GrantList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Grant"
        }
    },
    "com.amazonaws.licensemanager#GrantStatus": {
        "type": "enum",
        "members": {
            "PENDING_WORKFLOW": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_WORKFLOW"
                }
            },
            "PENDING_ACCEPT": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_ACCEPT"
                }
            },
            "REJECTED": {
```

"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "REJECTED"

}
},
"ACTIVE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ACTIVE"
}
},
"FAILED_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "FAILED_WORKFLOW"
}
},
"DELETED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DELETED"
}
},
"PENDING_DELETE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_DELETE"
}
},
"DISABLED": {
"target": "smithy.api#Unit",
"traits":
{
"smithy.api#enumValue": "DISABLED"
}
},
"WORKFLOW_COMPLETED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "WORKFLOW_COMPLETED"
}
}
}
},
"com.amazonaws.licensemanager#GrantedLicense": {
"type": "structure",
"members": {

"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. "
}

},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. "
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. "
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#IssuerDetails",
"traits": {
"smithy.api#documentation": " Granted license issuer. "
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the granted license. "

}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " Granted license status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the granted license is valid, in

ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Granted license beneficiary. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Granted license metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Creation time of the granted license. "

}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Version of the granted license. "
}
},
"ReceivedMetadata": {
"target": "com.amazonaws.licensemanager#ReceivedMetadata",
"traits": {
"smithy.api#documentation": " Granted license received metadata. "
}
}
},
"traits": {

"smithy.api#documentation": " Describes a license that is granted to a grantee. "
}
},
"com.amazonaws.licensemanager#GrantedLicenseList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#GrantedLicense"
}
},
"com.amazonaws.licensemanager#ISO8601DateTime":
{
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[0-3]|[0-1][0-9]):[0-5][0-9])+$"
}
},
"com.amazonaws.licensemanager#Integer": {
"type": "integer"
},
"com.amazonaws.licensemanager#InvalidParameterValueException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidParameterValueProvided",
"httpResponseCode": 400
},
"smithy.api#documentation":
" One or more parameter values are not valid. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#InvalidResourceStateException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}

```
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidResourceState",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>License Manager cannot allocate a license to a resource because of its
state. </p>\n        <p>For example, you cannot allocate a license to an instance in the process of shutting\n
down.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },

    "com.amazonaws.licensemanager#InventoryFilter": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the filter.</p>",
                    "smithy.api#required": {}
                }
            },
            "Condition": {
                "target": "com.amazonaws.licensemanager#InventoryFilterCondition",
                "traits": {
                    "smithy.api#documentation": "<p>Condition of the filter.</p>",
                    "smithy.api#required": {}
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Value of the filter.</p>"
                }
            }

    },
        "traits": {
            "smithy.api#documentation": "<p>An inventory filter.</p>"
        }
    },
    "com.amazonaws.licensemanager#InventoryFilterCondition": {
        "type": "enum",
        "members": {
            "EQUALS": {
                "target": "smithy.api#Unit",
```

"traits": {
"smithy.api#enumValue": "EQUALS"
}
},
"NOT_EQUALS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "NOT_EQUALS"
}
},
"BEGINS_WITH": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "BEGINS_WITH"
}
},
"CONTAINS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CONTAINS"
}
}
}
},
"com.amazonaws.licensemanager#InventoryFilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#InventoryFilter"
}
},
"com.amazonaws.licensemanager#Issuer": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. ",
"smithy.api#required": {}
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage
of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
}

```
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about the issuer of a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#IssuerDetails": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Issuer name.</p>"
                }
            },
            "SignKey": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS
key must have a key usage of sign and verify, \n        and support the RSASSA-PSS SHA-256 signing
algorithm.</p>"
                }
            },
            "KeyFingerprint": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Issuer key fingerprint.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details associated with the issuer of a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#License": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "LicenseName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {

            "smithy.api#documentation": "<p>License name.</p>"
                }
```

```
            },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product name.</p>"
                }
            },
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product SKU.</p>"
                }
            },
            "Issuer": {
                "target": "com.amazonaws.licensemanager#IssuerDetails",
                "traits": {
                    "smithy.api#documentation": "<p>License issuer.</p>"
                }
            },
            "HomeRegion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {

            "smithy.api#documentation": "<p>Home Region of the license.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseStatus",
                "traits": {
                    "smithy.api#documentation": "<p>License status.</p>"
                }
            },
            "Validity": {
                "target": "com.amazonaws.licensemanager#DatetimeRange",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>"
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License beneficiary.</p>"
                }
            },
            "Entitlements": {
```

"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " License metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " License
creation time. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
},
"traits": {
"smithy.api#documentation": " Software license that is managed in License Manager. "
}
},
"com.amazonaws.licensemanager#LicenseConfiguration": {
"type": "structure",
"members": {
"LicenseConfigurationId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Unique ID of the license configuration. "
}
},
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "

```
            }
        },
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Name of the license configuration.</p>"
            }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Description of the license configuration.</p>"
            }
        },
        "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
            "traits": {
                "smithy.api#documentation": "<p>Dimension to use to track the license inventory.</p>"
            }
        },
        "LicenseRules": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>License rules.</p>"
            }
        },
        "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
            }
        },
        "LicenseCountHardLimit": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Number of available licenses as a hard limit.</p>"
            }
        },
        "DisassociateWhenNotFound": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
            }
        },
        "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
```

"smithy.api#documentation": " Number of licenses consumed. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the license configuration. "
}
},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the license configuration's owner. "

}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries for licenses consumed by various resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries for managed resources. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {

"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
}
},
"traits": {
"smithy.api#documentation": " A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a host), and the number of licenses purchased and used. "

```
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
        "type": "structure",
        "members": {
            "ResourceArn":
{
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Type of server resource.</p>"
                }
            },
            "ResourceOwnerId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the Amazon Web Services account that owns the resource
consuming licenses.</p>"
                }
            },
            "AssociationTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {

    "smithy.api#documentation": "<p>Time when the license configuration was associated with the resource.</p>"
                }
            },
            "AmiAssociationScope": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-
account</code>.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes an association with a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
```

```
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationStatus": {
        "type": "enum",
        "members":
{
            "AVAILABLE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "AVAILABLE"
                }
            },
            "DISABLED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DISABLED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationUsage": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits":
{
                    "smithy.api#documentation": "<p>Type of resource.</p>"
                }
            },
            "ResourceStatus": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Status of the resource.</p>"
                }
            },
            "ResourceOwnerId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
                }
            },
```

"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was initially associated with the resource. "
}
},

"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about the usage of a resource associated with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
}
},
"com.amazonaws.licensemanager#LicenseConfigurations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfiguration"
}
},
"com.amazonaws.licensemanager#LicenseConversionContext": {

"type": "structure",
"members": {
"UsageOperation": {
"target": "com.amazonaws.licensemanager#UsageOperation",
"traits": {
"smithy.api#documentation": " The Usage operation value that corresponds to the license type you are converting your resource from. For more information about which platforms correspond to which usage operation values see Sample data: usage operation by platform\n \n "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "

```
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTask": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {

     "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the license type conversion task.</p>"
                }
            },
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the resource associated
with the license type\n        conversion task.</p>"
                }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license type this conversion task converted
from.</p>"
                }
            },
            "DestinationLicenseContext": {
                "target":
 "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license type this conversion task converted
to.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
                "traits": {
                    "smithy.api#documentation": "<p>The status of the conversion task.</p>"
                }
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
                }
            },
            "StartTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
```

```
            "traits": {
                "smithy.api#documentation":
 "<p>The time the conversion task was started at.</p>"
            }
        },
        "LicenseConversionTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>The time the usage operation value of the resource was
changed.</p>"
            }
        },
        "EndTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>The time the conversion task was completed.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
    }
},
"com.amazonaws.licensemanager#LicenseConversionTaskId": {
    "type": "string",
    "traits": {

      "smithy.api#length": {
            "min": 0,
            "max": 50
        },
        "smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
    }
},
"com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
    "type": "enum",
    "members": {
        "IN_PROGRESS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "IN_PROGRESS"
            }
        },
        "SUCCEEDED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "SUCCEEDED"
            }
```

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            },
            "FAILED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "FAILED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTasks":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTask"
        }
    },
    "com.amazonaws.licensemanager#LicenseCountingType": {
        "type": "enum",
        "members": {
            "VCPU": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "vCPU"
                }
            },
            "INSTANCE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Instance"
                }
            },
            "CORE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Core"
                }
            },
            "SOCKET": {
                "target": "smithy.api#Unit",
                 "traits": {
                    "smithy.api#enumValue": "Socket"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#LicenseDeletionStatus": {
        "type": "enum",
        "members": {
```

```
        "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#License"
    }
},
"com.amazonaws.licensemanager#LicenseOperationFailure": {

    "type": "structure",
    "members": {
        "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
        },
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Resource type.</p>"
            }
        },
        "ErrorMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Error message.</p>"
            }
        },
        "FailureTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {

"smithy.api#documentation": "<p>Failure time.</p>"
            }
```

```
            },
            "OperationName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the operation.</p>"
                }
            },
            "ResourceOwnerId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the Amazon Web Services account that owns the
resource.</p>"
                }
            },
            "OperationRequestedBy": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The requester is \"License Manager Automated Discovery\".</p>"
                }
            },
            "MetadataList": {

                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Reserved.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes the failure of a license operation.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseOperationFailureList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseOperationFailure"
        }
    },
    "com.amazonaws.licensemanager#LicenseSpecification": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
```

"smithy.api#required": {}
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Details for associating a license configuration with a resource. "
}
},
"com.amazonaws.licensemanager#LicenseSpecifications": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseSpecification"
}
},
"com.amazonaws.licensemanager#LicenseStatus": {
"type": "enum",
"members": {
"AVAILABLE": {
"target": "smithy.api#Unit",

"traits": {
"smithy.api#enumValue": "AVAILABLE"
}
},
"PENDING_AVAILABLE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_AVAILABLE"
}
},
"DEACTIVATED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DEACTIVATED"
}
},
"SUSPENDED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "SUSPENDED"
}

```
        },
        "EXPIRED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EXPIRED"
            }
        },

     "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseUsage": {
    "type": "structure",
    "members": {
        "EntitlementUsages": {
            "target": "com.amazonaws.licensemanager#EntitlementUsageList",
            "traits": {
                "smithy.api#documentation": "<p>License entitlement usages.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes the entitlement usage associated with a license.</p>"

    }
},
"com.amazonaws.licensemanager#LicenseUsageException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "LicenseUsageFailure",
            "httpResponseCode": 412
```

```
            },
            "smithy.api#documentation": "<p>You do not have enough licenses available to support a new resource
launch.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 412
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
        },
        "output": {

    "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the resource associations for the
 specified license configuration.</p>\n        <p>Resource associations need not consume licenses from a license
configuration. \n        For example, an AMI or a stopped instance might not consume a license (depending on \n
the license rules).</p>"
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results
to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationAssociations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
"traits": {
"smithy.api#documentation": " Information about the associations for the license
configuration. "
}
},
"NextToken": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrants": {
"type": "operation",
"input": {

"target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the grants distributed for the specified license. "
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
"type": "structure",
"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n

```
<li>\n <p>\n <code>GranteePrincipalARN</code>\n </p>\n </li>\n
<li>\n <p>\n <code>ProductSKU</code>\n </p>\n </li>\n <li>\n
<p>\n <code>LicenseIssuerName</code>\n
</p>\n </li>\n </ul>"
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": "<p>Token for the next set of results.</p>"
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",

"traits": {
"smithy.api#documentation": "<p>Distributed grant details.</p>"
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": "<p>Token for the next set of results.</p>"
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
```

```
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
        },
        "errors": [
            {

"target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configuration operations that failed.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
```

```
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse":
{
        "type": "structure",
        "members": {
            "LicenseOperationFailureList": {
                "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
                "traits": {
                    "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurations": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
        },

    "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
```

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            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configurations
 for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
configurations.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next
 set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n                Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n                Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n
<p>\n                <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license
enforcement is used. \n                Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p>\n
    </li>\n            <li>\n                <p>\n                <code>usagelimitExceeded</code> - A Boolean value that
indicates whether the available licenses have been exceeded. \n                Logical operators are
```

```
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n         </ul>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurations": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurations",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",

         "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasks": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
             },
            {
```

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license type conversion tasks for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
"type": "structure",
"members": {
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {

"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " \n Filters to scope the results. Valid filters are <code>ResourceArns</code> and <code>Status</code>.\n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
"type": "structure",
"members": {
"LicenseConversionTasks": {
"target": "com.amazonaws.licensemanager#LicenseConversionTasks",
"traits": {
"smithy.api#documentation": " Information about the license configuration tasks for your account. "
}
},

```
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target":
"com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the report generators for your account.</p>"
```

```
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest":
{
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:
</p>\n        <ul>\n            <li>\n                <p>\n                <code>LicenseConfigurationArn</code>\n
</p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits":
{
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
        "type": "structure",
        "members": {
            "ReportGenerators": {
                "target": "com.amazonaws.licensemanager#ReportGeneratorList",
                "traits": {
                    "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
```

```
            }
            },
            "traits": {
                "smithy.api#output": {}
            }
        },
        "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
            "type": "operation",
            "input": {
                "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
            },
            "output": {
                "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
            },
            "errors": [
                {
                    "target": "com.amazonaws.licensemanager#AccessDeniedException"
                },
                {
                    "target": "com.amazonaws.licensemanager#AuthorizationException"
                },
                {
                    "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
                },
                {
                    "target": "com.amazonaws.licensemanager#RateLimitExceededException"
                 },
                {
                    "target": "com.amazonaws.licensemanager#ServerInternalException"
                }
            ],
            "traits": {
                "smithy.api#documentation": "<p>Describes the license configurations for the specified resource.</p>"
            }
        },
        "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
            "type": "structure",
            "members": {
                "ResourceArn": {
                    "target": "com.amazonaws.licensemanager#String",
                    "traits": {
                        "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a resource that has an
associated license configuration.</p>",
                        "smithy.api#required": {}
                    }
                },
                "MaxResults": {
                    "target": "com.amazonaws.licensemanager#BoxInteger",
```

"traits": {

"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
"type": "structure",
"members": {
"LicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " License configurations associated with a resource. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

```
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists all versions of the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
    "type": "structure",
    "members": {
        "Licenses": {
```

```
            "target": "com.amazonaws.licensemanager#LicenseList",
            "traits": {
                "smithy.api#documentation": "<p>License details.</p>"
            }
        },

"NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListLicenses": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicensesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicensesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
         },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the licenses for your account.</p>"
    }
```

```
    },
    "com.amazonaws.licensemanager#ListLicensesRequest": {
      "type": "structure",
      "members": {
        "LicenseArns": {
          "target": "com.amazonaws.licensemanager#ArnList",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
          }
        },

     "Filters": {
          "target": "com.amazonaws.licensemanager#FilterList",
          "traits": {
            "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n          <li>\n            <p>\n              <code>Beneficiary</code>\n            </p>\n
      </li>\n          <li>\n            <p>\n              <code>ProductSKU</code>\n            </p>\n          </li>\n
   <li>\n            <p>\n              <code>Fingerprint</code>\n            </p>\n          </li>\n          <li>\n
<p>\n              <code>Status</code>\n            </p>\n          </li>\n        </ul>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token
 for the next set of results.</p>"
          }
        },
        "MaxResults": {
          "target": "com.amazonaws.licensemanager#MaxSize100",
          "traits": {
            "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#ListLicensesResponse": {
      "type": "structure",
      "members": {
        "Licenses": {
          "target": "com.amazonaws.licensemanager#LicenseList",
          "traits": {
            "smithy.api#documentation": "<p>License details.</p>"
          }
        },
```

"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists grants that are received. Received grants are grants created while specifying the\n recipient as this Amazon Web Services account, your organization, or an organizational unit\n (OU) to which this member account belongs. "
}

```
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsForOrganization": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target":
"com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the grants received for all accounts in the organization.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the received license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Filters": {
```

"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n
\n \n \n <code>ParentArn</code>\n \n \n
\n \n <code>GranteePrincipalArn</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Lists the grants the organization has received. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
"type": "structure",

"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranterAccountId</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Received grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists received licenses. "
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganization":
{
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest"

```
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {

    "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the licenses received for all accounts in the organization.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest": {
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n    <ul>\n        <li>\n            <p>\n                <code>Beneficiary</code>\n            </p>\n
    </li>\n        <li>\n            <p>\n                <code>ProductSKU</code>\n
            </p>\n        </li>\n    </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
```

```
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse": {
        "type": "structure",
        "members": {
            "Licenses": {
                "target": "com.amazonaws.licensemanager#GrantedLicenseList",
                 "traits": {
                    "smithy.api#documentation": "<p>Lists the licenses the organization has received.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
        "type": "structure",
        "members": {
            "LicenseArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
                }
            },

             "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n    <ul>\n    <li>\n    <p>\n    <code>ProductSKU</code>\n    </p>\n
```

```
</li>\n <li>\n <p>\n <code>Status</code>\n </p>\n </li>\n
<li>\n <p>\n <code>Fingerprint</code>\n </p>\n </li>\n <li>\n
<p>\n <code>IssuerName</code>\n </p>\n </li>\n <li>\n <p>\n
<code>Beneficiary</code>\n </p>\n </li>\n </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
        "type": "structure",
        "members": {
          "Licenses": {
            "target": "com.amazonaws.licensemanager#GrantedLicenseList",
            "traits": {
              "smithy.api#documentation": "<p>Received license details.</p>"
            }
          },

         "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListResourceInventory": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
```

```
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#FailedDependencyException"
        },
        {
            "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
    }
},
"com.amazonaws.licensemanager#ListResourceInventoryRequest": {
    "type": "structure",
    "members": {
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "Filters": {
            "target": "com.amazonaws.licensemanager#InventoryFilterList",
```

"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n
\n \n \n <code>application_name</code> - The name of the application. \n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n
\n \n \n <code>license_included</code> - The type of license included. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n Possible values are <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n
\n <code>platform</code> - The platform of the resource.\n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n \n \n \n
<code>resource_id</code> - The ID of the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n
<code>tag:<key></code> - The key/value combination of a tag assigned \n to the resource. Logical operators are <code>EQUALS</code> (single account) or\n <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account). \n \n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListResourceInventoryResponse": {
"type": "structure",
"members": {
"ResourceInventoryList": {
"target": "com.amazonaws.licensemanager#ResourceInventoryList",
"traits": {
"smithy.api#documentation": " Information about the resources. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListTagsForResource": {
"type": "operation",

"input": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the tags for the specified license configuration. "
}
},
"com.amazonaws.licensemanager#ListTagsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",

"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListTagsForResourceResponse": {
"type": "structure",
"members": {
"Tags": {

```
            "target": "com.amazonaws.licensemanager#TagList",
            "traits": {
                "smithy.api#documentation": "<p>Information about the tags.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListTokens": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListTokensRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListTokensResponse"
        },
        "errors":
[
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists your tokens.</p>"
        }
      },
      "com.amazonaws.licensemanager#ListTokensRequest": {
        "type": "structure",
        "members": {
          "TokenIds": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
```

"smithy.api#documentation": " Token IDs. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filter is supported: \n
\n \n \n <code>LicenseArns</code>\n \n \n
"
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation":
" Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListTokensResponse": {
"type": "structure",
"members": {
"Tokens": {
"target": "com.amazonaws.licensemanager#TokenList",
"traits": {
"smithy.api#documentation": " Received token details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}

```
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
             {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying
license\n        consumption details by resource at a selected point in time. Use this action to audit the\n        current
license consumption for any license inventory and configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
```

"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>resourceArn</code> - The ARN of the license configuration resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>resourceAccount</code> - The ID of the account that owns the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
"type": "structure",
"members": {

"LicenseConfigurationUsageList": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
"traits": {
"smithy.api#documentation": " Information about the license configurations. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}

```
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#Location": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#Long": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#ManagedResourceSummary": {
        "type": "structure",
        "members": {
            "ResourceType":
{
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
                }
            },
            "AssociationCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#ManagedResourceSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
        }
    },
    "com.amazonaws.licensemanager#MaxSize100": {

    "type": "integer",
        "traits": {
            "smithy.api#range": {
                "min": 1,
                "max": 100
            }
        }
    },
```

"com.amazonaws.licensemanager#MaxSize3StringList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#String"
    },
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 3
        }
    }
},
"com.amazonaws.licensemanager#Message": {
    "type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": " The key name. "
            }
        },

"Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": " The value. "
            }
        }
    },
    "traits": {
        "smithy.api#documentation": " Describes key/value pairs. "
    }
},
"com.amazonaws.licensemanager#MetadataList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Metadata"
    }
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }

},
"traits": {
"smithy.api#documentation": " There are no entitlements found for this license, or the entitlement maximum count is reached. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#Options": {
"type": "structure",
"members": {
"ActivationOverrideBehavior": {
"target": "com.amazonaws.licensemanager#ActivationOverrideBehavior",
"traits": {
"smithy.api#documentation": " An activation option for your grant that determines the behavior of activating a grant.\n Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the\n <code>Status</code> parameter. \n \n \n As a license administrator, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when activating a grant. \n \n \n As a grantor, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee\n account in your organization. \n \n \n As a grantee, if the grantor creating the distributed grant doesnt specify an\n <code>ActivationOverrideBehavior</code>, you can optionally specify one when you\n are activating the grant. \n \n \n <dl>\n <dt>DISTRIBUTED_GRANTS_ONLY</dt>\n <dd>\n Use this value to activate a grant without replacing any member accounts\n active grants for the same product. \n </dd>\n <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt>\n <dd>\n Use this value to activate a grant and disable other active grants in any\n member accounts
for the same product. This action will also replace their\n previously activated grants with this activated grant. \n </dd>\n </dl>"
}
}
},
"traits": {
"smithy.api#documentation": " The options you can specify when you create a new version of a grant, such as activation\n override behavior. For more information, see Granted licenses in License Manager in the License Manager User Guide. "
}
},
"com.amazonaws.licensemanager#OrganizationConfiguration": {
"type": "structure",
"members": {
"EnableIntegration": {
"target": "com.amazonaws.licensemanager#Boolean",
"traits": {
"smithy.api#default": false,
"smithy.api#documentation":

" Enables Organizations integration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Configuration information for Organizations. "
}
},
"com.amazonaws.licensemanager#PrincipalArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 1
}
}
},
"com.amazonaws.licensemanager#ProductInformation": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterList": {
"target": "com.amazonaws.licensemanager#ProductInformationFilterList",
"traits": {
"smithy.api#documentation": " A Product information filter consists of a <code>ProductInformationFilterComparator</code> which is a logical operator, a <code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. \n Accepted values for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. \n The following filters and are supported when the resource type \n is <code>SSM_MANAGED</code>: \n \n \n \n <code>Application Name</code> - The name of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Publisher</code> - The publisher of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Version</code> - The version of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform

Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n
\n \n \n <code>Platform Type</code> - The platform type.\n
Logical operator is <code>EQUALS</code>. \n
\n \n \n <code>Tag:key</code> - The key of a tag attached to an
Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is
<code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the
example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you
are not using values for the key.\n \n \n \n \n
<code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from
automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n
\n \n <code>License Included</code> - The type of license included.\n Logical
operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n Possible values are:
<code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-
web</code> | \n <code>windows-server-datacenter</code>. \n \n \n
The following filters and logical operators are supported when the resource type\n is
<code>RDS</code>: \n \n \n \n <code>Engine Edition</code> -
The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible
values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-
se2</code>. \n \n \n \n <code>License Pack</code> - The license
pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data
guard</code> | \n <code>diagnostic pack sqlt</code> | \n
<code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n
\n ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information for a license configuration. "
}
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
"type": "structure",
"members": {
"ProductInformationFilterName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Filter name. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterValue": {
"target": "com.amazonaws.licensemanager#StringList",

"traits": {
"smithy.api#documentation": " Filter value. "
}
},

```
        "ProductInformationFilterComparator": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Logical operator.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes product information filters.</p>"
    }
},
"com.amazonaws.licensemanager#ProductInformationFilterList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformationFilter"
    }
},
"com.amazonaws.licensemanager#ProductInformationList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformation"
     }
},
"com.amazonaws.licensemanager#ProvisionalConfiguration": {
    "type": "structure",
    "members": {
        "MaxTimeToLiveInMinutes": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum time for the provisional configuration, in minutes.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
    }
},
"com.amazonaws.licensemanager#RateLimitExceededException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
```

"aws.protocols#awsQueryError": {
"code": "RateLimitExceeded",
"httpResponseCode": 429
},
"smithy.api#documentation": " Too many requests have been submitted. Try again after a brief wait. ",
"smithy.api#error": "client",
"smithy.api#httpError": 429
}
},
"com.amazonaws.licensemanager#ReceivedMetadata": {
"type": "structure",
"members": {
"ReceivedStatus": {
"target": "com.amazonaws.licensemanager#ReceivedStatus",
"traits": {
"smithy.api#documentation": " Received status. "
}
},
"ReceivedStatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Received status reason. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations. "
}
}
},
"traits": {
"smithy.api#documentation": " Metadata associated with received licenses and grants. "
}
},
"com.amazonaws.licensemanager#ReceivedStatus": {
"type": "enum",
"members": {
"PENDING_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_WORKFLOW"
}
},
"PENDING_ACCEPT": {
"target": "smithy.api#Unit",

```
            "traits": {
                "smithy.api#enumValue":
"PENDING_ACCEPT"
            }
        },
        "REJECTED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "REJECTED"
            }
        },
        "ACTIVE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "ACTIVE"
            }
        },
        "FAILED_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "FAILED_WORKFLOW"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        },
        "DISABLED": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "DISABLED"
            }
        },
        "WORKFLOW_COMPLETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "WORKFLOW_COMPLETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#RedirectException": {
    "type": "structure",
    "members": {
        "Location": {
            "target": "com.amazonaws.licensemanager#Location",
```

```
            "traits": {
                "smithy.api#httpHeader": "Location"
            }
        },
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
         "smithy.api#error": "client",
        "smithy.api#httpError": 308
    }
},
"com.amazonaws.licensemanager#RejectGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#RejectGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#RejectGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target":
"com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
```

```
        }
    },
    "com.amazonaws.licensemanager#RejectGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}

  }
    },
    "com.amazonaws.licensemanager#RejectGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#RenewType":
{
        "type": "enum",
        "members": {
```

"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"WEEKLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Weekly"
}
},
"MONTHLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Monthly"
}
}
}
},
"com.amazonaws.licensemanager#ReportContext": {
"type": "structure",
"members": {
"licenseConfigurationArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration that this generator reports on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details of the license configuration that this generator reports on. "
}
},
"com.amazonaws.licensemanager#ReportFrequency": {
"type": "structure",
"members": {
"value": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Number of times within the frequency period that a report is generated. \n The only supported value is <code>1</code>. "
}
},
"period": {

"target": "com.amazonaws.licensemanager#ReportFrequencyType",

"traits": {
"smithy.api#documentation": " Time period between each report. The period can be daily, weekly, or monthly. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"com.amazonaws.licensemanager#ReportFrequencyType": {
"type": "enum",
"members": {
"DAY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DAY"
}
},
"WEEK": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "WEEK"
}
},
"MONTH": {
"target": "smithy.api#Unit",
"traits":
{
"smithy.api#enumValue": "MONTH"
}
}
}
},
"com.amazonaws.licensemanager#ReportGenerator": {
"type": "structure",
"members": {
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the report generator. "
}
},
"ReportType": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {

"smithy.api#documentation": " Type of reports that are generated. "
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " License configuration type for this generator. "
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. "
}
},
"LastRunStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the last report generation attempt. "
}
},
"LastRunFailureReason": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Failure message for the last report generation attempt. "
}
},
"LastReportGenerationTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the last report was generated at. "
}
},
"ReportCreatorAccount": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Web Services account ID used to create the report generator. "
}
},

"Description": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"S3Location": {
"target": "com.amazonaws.licensemanager#S3Location",
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the report was created. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags associated with the report generator. "
}

}
},
"traits": {
"smithy.api#documentation": " Describe the details of a report generator. "
}
},
"com.amazonaws.licensemanager#ReportGeneratorList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ReportGenerator"
}
},
"com.amazonaws.licensemanager#ReportGeneratorName": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 100
}
}
},
"com.amazonaws.licensemanager#ReportType": {

"type": "enum",
"members": {
"LICENSE_CONFIGURATION_SUMMARY_REPORT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "LicenseConfigurationSummaryReport"
}

},
"LICENSE_CONFIGURATION_USAGE_REPORT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "LicenseConfigurationUsageReport"
}
}
}
},
"com.amazonaws.licensemanager#ReportTypeList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ReportType"
}
},
"com.amazonaws.licensemanager#ResourceInventory": {
"type": "structure",
"members": {
"ResourceId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits":
{
"smithy.api#documentation": " Type of resource. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"Platform": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Platform of the resource. "
}
},
"PlatformVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Platform version of the resource in the inventory. "
}
},
"ResourceOwningAccountId":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the account that owns the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about a resource. "
}
},
"com.amazonaws.licensemanager#ResourceInventoryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ResourceInventory"
}
},
"com.amazonaws.licensemanager#ResourceLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "ResourceLimitExceeded",

"httpResponseCode": 400
},
"smithy.api#documentation": " Your resource limits have been exceeded. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#ResourceNotFoundException": {
"type": "structure",
"members": {

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        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "InvalidResource.NotFound",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The resource cannot be found.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceType": {
    "type": "enum",
    "members": {
        "EC2_INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_INSTANCE"
            }
        },
        "EC2_HOST": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_HOST"
            }
        },
        "EC2_AMI": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_AMI"
            }
        },
        "RDS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "RDS"
            }
        },
        "SYSTEMS_MANAGER_MANAGED_INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
            }
        }
    }
```

```
    },
    "com.amazonaws.licensemanager#S3Location": {
      "type": "structure",
      "members": {
        "bucket": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Name of the S3 bucket reports are published to.</p>"
          }
        },
        "keyPrefix": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Prefix of the S3 bucket reports are published to.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
      }
    },
    "com.amazonaws.licensemanager#ServerInternalException": {
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
      "traits": {
        "aws.protocols#awsQueryError": {
          "code": "InternalError",
          "httpResponseCode": 500
        },
        "smithy.api#documentation": "<p>The server experienced an internal error. Try again.</p>",
        "smithy.api#error": "server",
        "smithy.api#httpError": 500
      }
    },
    "com.amazonaws.licensemanager#SignedToken": {
      "type": "string",
      "traits": {
        "smithy.api#length": {
          "min": 4096
        }
      }
    },
    "com.amazonaws.licensemanager#StatusReasonMessage": {
```

```
        "type": "string",
        "traits":
{
            "smithy.api#length": {
                "min": 0,
                "max": 400
            },
            "smithy.api#pattern": "^[\\s\\S]+$"
        }
    },
    "com.amazonaws.licensemanager#String": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#StringList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },
    "com.amazonaws.licensemanager#Tag": {
        "type": "structure",
        "members": {
            "Key": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag key.</p>"
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
"<p>Tag value.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },
    "com.amazonaws.licensemanager#TagList": {
        "type": "list",
```

"member": {
"target": "com.amazonaws.licensemanager#Tag"
}
},
"com.amazonaws.licensemanager#TagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#TagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#TagResourceResponse"
},
"errors": [
{
"target":
"com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Adds the specified tags to the specified license configuration. "
}
},
"com.amazonaws.licensemanager#TagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits":
{
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license
configuration. ",
"smithy.api#required": {}
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",

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                "traits": {
                    "smithy.api#documentation": "<p>One or more tags.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#TagResourceResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#TokenData": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
            "TokenType": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>.</p>"
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "ExpirationTime": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Token expiration time, in ISO8601-UTC
 format.</p>"
                }
            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
```

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                "traits": {
                    "smithy.api#documentation": "<p>Data specified by the caller.</p>"
                }
            },
            "RoleArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the roles included in the
token.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token status. The possible values are
<code>AVAILABLE</code> and <code>DELETED</code>.</p>"
                }
            }
        },
        "traits": {

            "smithy.api#documentation": "<p>Describes a token.</p>"
        }
    },
    "com.amazonaws.licensemanager#TokenList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#TokenData"
        }
    },
    "com.amazonaws.licensemanager#TokenString": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 4096
            },
            "smithy.api#pattern": "^\\S+$"
        }
    },
    "com.amazonaws.licensemanager#TokenType": {
        "type": "enum",
        "members": {
            "REFRESH_TOKEN": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "REFRESH_TOKEN"
                }
```

```
            }
        }
    },
    "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException":
 {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The digital signature method is unsupported. Try your request
again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#UntagResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UntagResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UntagResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Removes the specified tags from the specified license
configuration.</p>"
        }
    },
```

"com.amazonaws.licensemanager#UntagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"TagKeys": {
"target": "com.amazonaws.licensemanager#TagKeyList",
"traits": {
"smithy.api#documentation": " Keys identifying the tags to remove. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UntagResourceResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"

```
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Modifies the attributes of an existing license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseConfigurationStatus": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
                "traits": {
                    "smithy.api#documentation": "<p>New status of the license configuration.</p>"
                }
            },
            "LicenseRules": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {

    "smithy.api#documentation": "<p>New license rule. The only rule that you can add after you create a license\n
    configuration is licenseAffinityToHost.</p>"
                }
            },
            "LicenseCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>New number of licenses managed by the license
configuration.</p>"
                }
            },
            "LicenseCountHardLimit": {
```

"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " New hard limit of the number of available licenses. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New name
of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New description of the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " New product information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is
uninstalled. "
}
}
},
"traits":
{
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"

```
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
             },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates a report generator.</p>\n        <p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to update.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportGeneratorName": {
```

"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation":
" Type of reports to generate. The following report types are supported: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " The report context. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits":
{
"smithy.api#documentation": " Frequency by which reports are generated. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse":
{
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},

{
"target": "com.amazonaws.licensemanager#InvalidResourceStateException"
},
{
"target": "com.amazonaws.licensemanager#LicenseUsageException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Adds or removes the specified license configurations for the specified Amazon Web Services resource. \n You can update the license specifications of AMIs, instances, and hosts.\n You cannot update the license specifications for launch templates and CloudFormation templates, \n as they send license configurations to the operation that creates the resource. "

```
            }
        },

        "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
            "type": "structure",
            "members": {
                "ResourceArn": {
                    "target": "com.amazonaws.licensemanager#String",
                    "traits": {
                        "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon Web Services
resource.</p>",
                        "smithy.api#required": {}
                    }
                },
                "AddLicenseSpecifications": {
                    "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                    "traits": {
                        "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
                    }
                },
                "RemoveLicenseSpecifications": {
                    "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                    "traits": {
                        "smithy.api#documentation":
 "<p>ARNs of the license configurations to remove.</p>"
                    }
                }
            },
            "traits": {
                "smithy.api#input": {}
            }
        },
        "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
            "type": "structure",
            "members": {},
            "traits": {
                "smithy.api#output": {}
            }
        },
        "com.amazonaws.licensemanager#UpdateServiceSettings": {
            "type": "operation",
            "input": {
                "target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
            },
            "output": {
                "target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
            },
            "errors": [
```

```
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon S3 bucket where the License
 Manager information is stored.</p>"
                }
            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts.</p>"
                }
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Enables integration with Organizations for cross-account discovery.</p>"
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
```

"smithy.api#documentation": " Activates cross-account discovery. "

}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UsageOperation": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
}
}
},
"com.amazonaws.licensemanager#ValidationException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The provided input is not valid. Try your request again. ",

"smithy.api#error": "client",
"smithy.api#httpError": 400
}
}
}
}

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
```

```
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version
 of the license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus
```

```
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack,
 options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if
 err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "DeleteLicense",
 }
}
```

1.6083 mock 1.6.0

1.6083.1 Available under license :

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1.6084 aws-sdk-go-v2-feature-ec2-imds 1.15.0

1.6084.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
```

```
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 *
 // ProductSKU
 //
 // * Status
 //
 // * Fingerprint
 //
 // * IssuerName
 //
 // * Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense
```

```
 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
```

```
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
 nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListReceivedLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
```

```
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
```

```
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
```

```
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
```

```
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack,
 options); err != nil {
  return err
```

```
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil
 {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckInLicense",
 }
}
```

```
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
     - name: Checkout scancode
       uses: actions/checkout@v2
       with:
         repository: nexB/scancode-toolkit
         path: scancode-toolkit
         fetch-depth: 1
     - name: Set up Python ${{ matrix.python-version }}
        uses: actions/setup-python@v2
       with:
         python-version: ${{ matrix.python-version }}
     # ScanCode
     - name: Self-configure scancode
       working-directory: ./scancode-toolkit
       run: ./scancode --help
     - name: Run Scan code on target
       run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
     - name: Run Scan code on pr ref
       run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
```

```
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string
```

// Configuration for consumption of the license. Choose a provisional configuration
// for workloads running with continuous connectivity. Choose a borrow
// configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde

```
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return
 err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
```

```
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
```

```
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
 middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
```

```
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if
 err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
```

```
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "GetLicense",
 }
}
```

AWS SDK for Go

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```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
```

```
 return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive
 identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {
```

```
 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 //
 Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err
 != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return
 nil
}
```

```
func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
```

```
 // * ProductSKU
 //
 // * Fingerprint
 //
 //
 * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
```

```
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}
```

```
func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
```

```
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack,
 options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
```

```
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "DeleteLicense",
 }
}
```

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the brackets!) The text should be enclosed in the appropriate
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file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}
```

```
type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if
 err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
```

```
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "AssociateLicense",
 }
}
```

1.6085 grpc-opentracing 0.0.0-20180507213350-8e809c8a8645

1.6085.1 Available under license :

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1.6086 aws-sdk-go-v2-service-ssooidc 1.22.0

1.6086.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-
Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil,
 err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
```

```
 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err !=
 nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack);
 err != nil {
  return err
 }
```

```
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "AssociateLicense",
 }
}
```

AWS SDK for Go

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```
Copyright 2014-2015 Stripe, Inc.
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
     - name: Checkout scancode
       uses: actions/checkout@v2
       with:
         repository: nexB/scancode-toolkit
         path: scancode-toolkit
         fetch-depth: 1
     - name: Set up Python ${{ matrix.python-version }}
        uses: actions/setup-python@v2
       with:
         python-version: ${{ matrix.python-version }}
     # ScanCode
     - name: Self-configure scancode
       working-directory: ./scancode-toolkit
       run: ./scancode --help
     - name: Run Scan code on target
       run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
     - name: Run Scan code on pr ref
       run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
```

```
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
```

```
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return
 err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
```

```
  OperationName: "CheckInLicense",
 }
}
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
      "type": "integer"
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
      "type": "long"
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
      "type": "structure",
      "members": {
        "Name": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The type of name to filter by.</p>"
          }
        },
        "Values": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
          "traits": {
            "smithy.api#documentation": "<p>One or more values for the name to filter by.</p>"
          }
        },
        "Operator": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
           "traits": {
            "smithy.api#documentation": "<p>An operator for filtering results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>A filter object that is used to return more specific results from a describe
operation.\n      Filters can be used to match a set of resources by specific criteria.</p>"
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
      "type": "operation",
      "input": {
```

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
},
"output": {

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the Linux subscriptions service settings. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/GetServiceSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest":
{
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " Lists the settings defined for Linux subscriptions discovery. The
settings include if\n Organizations integration has been enabled, and
which Regions data will be aggregated from. "
}

```
            },
            "Status": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being
applied.</p>"
                }
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
                "traits": {
                    "smithy.api#documentation": "<p>A message which details the Linux subscriptions service settings
current status.</p>"
                }
            },
            "HomeRegions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>The Region in which License Manager displays
 the aggregated data for Linux\n      subscriptions.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
        "type": "structure",
        "members": {
            "AmiId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The AMI ID used to launch the instance.</p>"
                }
            },
            "InstanceID": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The instance ID of the resource.</p>"
                }
            },
            "InstanceType": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The instance type of the resource.</p>"
                }

        },
            "AccountID": {
                "target": "smithy.api#String",
```

"traits": {
"smithy.api#documentation": " The account ID which owns the instance. "
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of the instance. "
}
},
"Region": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The Region the instance is running in. "
}
},
"UsageOperation": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The usage operation of the instance. For more information, see For more information, see\n Usage\n operation values in the License Manager User Guide. "
}
},
"ProductCode": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",
"traits": {
"smithy.api#documentation": " The product code for the instance. For more information, see Usage\n operation values in the License Manager User Guide . "
}
},
"LastUpdatedTime": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The time in which the last discovery updated the instance details. "
}
},
"SubscriptionName": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the subscription being used by the instance. "
}
}
},
"traits": {

"smithy.api#documentation": " Details discovered information about a running instance using Linux subscriptions. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " An exception occurred with the service. ",
"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
"type": "service",
"version": "2018-05-10",
"operations": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
}
],

"traits": {
"aws.api#service": {
"sdkId": "License Manager Linux Subscriptions",
"arnNamespace": "license-manager-linux-subscriptions",
"cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
},
"aws.auth#sigv4": {
"name": "license-manager-linux-subscriptions"

},
"aws.protocols#restJson1": {},
"smithy.api#cors": {
"additionalAllowedHeaders": [
"*",
"content-type",
"x-amz-content-sha256",
"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",
"x-api-key",
"authorization",
"x-amz-date",

"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"
]
},
"smithy.api#documentation": " With License Manager, you can discover and track your commercial Linux subscriptions on running\n Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager Linux Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
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"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
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"UseFIPS": {

"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",

"type": "Boolean"
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"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
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"argv": [
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"ref": "Endpoint"
}
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}
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"conditions": [
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"argv": [
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"type": "error"
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                                     "supportsDualStack"
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                    "type": "error"
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                                "argv": [
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                                    },
                                    "supportsFIPS"
                                ]
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                    "type": "error"
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                                        "type": "endpoint"
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                            }
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"type": "error"
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"smithy.rules#endpointTests": {
"testCases": [
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
}
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"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": true
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"documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {

"endpoint": {
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      "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
      "expect": {
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"params": {
"Region": "us-gov-east-1",
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"params": {
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"UseFIPS": true,
"UseDualStack": false
}
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"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
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"UseDualStack": false
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"params": {
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"UseFIPS": false,
"UseDualStack": false
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"expect": {

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"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
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"expect": {
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"params": {
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"Endpoint": "https://example.com"
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"expect": {
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"params": {
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"UseDualStack": true,

"Endpoint": "https://example.com"
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{
"documentation": "Missing region",
"expect": {
"error": "Invalid Configuration: Missing Region"
}

}
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"version": "1.0"
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
"type": "string",
"traits": {
"smithy.api#enum": [
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"name": "Enabled",
"value": "Enabled",
"documentation": "Enabled LinuxSubscriptionsDiscovery"
},
{
"name": "Disabled",
"value": "Disabled",
"documentation": "Disabled LinuxSubscriptionsDiscovery"
}
]
}
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"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
"type": "structure",
"members": {
"SourceRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Regions in which to discover data for Linux subscriptions. ",
"smithy.api#required": {}
}
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"OrganizationIntegration": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
"traits": {
"smithy.api#documentation": " Details if you have enabled resource discovery across your accounts in Organizations. ",

"smithy.api#required": {}
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}
},
"traits": {
"smithy.api#documentation": " Lists the settings defined for discovering Linux subscriptions. "
}
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"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances": {
"type":
"operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
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"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
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"traits": {
"smithy.api#documentation": " Lists the running Amazon EC2 instances that were discovered with
commercial Linux\n subscriptions. ",
"smithy.api#http": {

"code": 200,
"method": "POST",
"uri": "/subscription/ListLinuxSubscriptionInstances"
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"smithy.api#idempotent": {},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "Instances"
}
}
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"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest": {
"type": "structure",

"members": {
"Filters": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. For example, you can filter by the name of\n <code>AmiID</code> with an optional operator to see subscriptions that match, partially\n match, or don't match a certain Amazon Machine Image (AMI) ID. \n The valid names for this filter are: \n \n \n \n <code>AmiID</code>\n \n \n \n \n <code>InstanceID</code>\n \n \n \n \n <code>AccountID</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n <code>Region</code>\n \n \n \n \n <code>UsageOperation</code>\n \n \n \n \n <code>ProductCode</code>\n \n \n \n \n <code>InstanceType</code>\n \n \n \n The valid Operators for this filter are: \n \n \n \n <code>contains</code>\n \n \n \n \n <code>equals</code>\n \n \n \n \n <code>Notequal</code>\n \n \n "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "

}
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"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. ",
"smithy.api#length": {
"min": 1,
"max": 16384
}
}
}
},
"traits": {
"smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if parameters in request increases."
}
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"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
"type": "structure",
"members": {
"Instances": {

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
"traits": {
"smithy.api#documentation":
" An array that contains instance objects. "
}
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"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
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"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
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"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
},
"errors": [
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"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the Linux subscriptions that have been discovered. If you have linked your\n organization, the returned results will include data aggregated across your accounts in\n Organizations. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/ListLinuxSubscriptions"
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"smithy.api#idempotent": {},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "Subscriptions"

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            }

        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
        "type": "structure",
        "members": {
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                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify. For example, you can filter by the name of\n
 <code>Subscription</code> with an optional operator to see subscriptions that match,\n      partially match, or don't
match a certain subscription's name.</p>\n         <p>The valid names for this filter are:</p>\n         <ul>\n
<li>\n              <p>\n                  <code>Subscription</code>\n              </p>\n           </li>\n         </ul>\n
<p>The valid Operators for this filter are:</p>\n
         <ul>\n           <li>\n              <p>\n                  <code>contains</code>\n              </p>\n           </li>\n
<li>\n              <p>\n                  <code>equals</code>\n              </p>\n           </li>\n           <li>\n              <p>\n
              <code>Notequal</code>\n              </p>\n           </li>\n         </ul>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
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            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>",
                    "smithy.api#length": {

                        "min": 1,
                        "max": 16384
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        "traits": {
            "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
        }
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        "members": {
            "Subscriptions": {
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"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
"traits": {
"smithy.api#documentation": " An array that contains subscription objects. "
}
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"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for
the next set of results. "
}
}
}
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"com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
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"traits": {
"smithy.api#enum": [
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"name": "EQUAL",
"value": "Equal",
"documentation": "Equal operator"
},
{
"name": "NOT_EQUAL",
"value": "NotEqual",
"documentation": "Not equal operator"
},
{
"name": "CONTAINS",
"value": "Contains",
"documentation": "Contains operator"
}
],
"smithy.api#length": {
"min": 1,
"max": 20
}
}
},

"com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "Enabled",
"value": "Enabled",

"documentation": "Enabled OrganizationIntegration"
},
{
"name": "Disabled",
"value": "Disabled",
"documentation": "Disabled OrganizationIntegration"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
"type": "list",
"member": {
"target": "smithy.api#String"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
"type": "string",
"traits": {
"smithy.api#enum": [

{
"name": "InProgress",
"value": "InProgress",
"documentation": "InProgress status"
},
{
"name": "Completed",
"value": "Completed",
"documentation": "Completed status"
},
{
"name": "Successful",
"value": "Successful",
"documentation": "Successful status"
},
{
"name": "Failed",
"value": "Failed",
"documentation": "Failed status"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
"type": "list",
"member": {
"target": "smithy.api#String",

"traits":
{
"smithy.api#length": {
"min": 1,
"max": 100
}
}
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 100
},
"smithy.api#uniqueItems": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
"type": "map",
"key": {
"target": "smithy.api#String"
},
"value": {
"target": "smithy.api#String"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
"type": "structure",
"members": {
"Name": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the subscription. "

}
},
"Type": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own\n Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the\n Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS. "
}
},
"InstanceCount": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
"traits": {
"smithy.api#documentation": " The total amount of running instances using this subscription. "

```
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>An object which details a discovered Linux
subscription.</p>"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
        "type": "structure",
        "members": {
          "message": {
            "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The request was denied due to request throttling.</p>",
          "smithy.api#error": "client"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
        },

      "output": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
          },
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Updates the service settings for Linux subscriptions.</p>",
```

"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/UpdateServiceSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest":
{
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Describes if the discovery of Linux subscriptions is enabled. ",
"smithy.api#required": {}
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The
settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated
from. ",

"smithy.api#required": {}
}
},
"AllowUpdate": {
"target": "smithy.api#Boolean",
"traits": {
"smithy.api#documentation": " Describes if updates are allowed to the service settings for Linux
subscriptions. If you\n allow updates, you can aggregate Linux subscription data in more than one home
Region. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},

"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation": " A message which details the Linux subscriptions service settings current status. "
}
},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Region in which License Manager displays the aggregated data for Linux\n subscriptions. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The provided input is not valid. Try your request again. ",
"smithy.api#error": "client"
}
}
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //   - Beneficiary
 //   - ProductSKU
 //   - Fingerprint
 //
   - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string
```

```
 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if
 err := addProtocolFinalizerMiddlewares(stack, options, "ListLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
```

```
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}
```

```
func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:
    ServiceID,
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 //
 This member is required.
 LicenseType types.LicenseType
```

```
 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack,
 options, "DisassociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata
 {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
```

```
 out.ResultMetadata = metadata
 return out, nil
}

type
 CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
```

```
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource
 Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil
 {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
```

```
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack);
err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }
```

```
 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier
 that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
```

```
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutBorrowLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
```

```
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return
err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }
```

```
 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide
 to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
 // borrow configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //
 // This member is required.
 LicenseName *string

 // Product name.
 //
```

```
 // This member is required.
 ProductName *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity
 *types.DatetimeRange

 // Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
```

```
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
 return fmt.Errorf("add
protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName:
 "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
```

```
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
```

```
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return
err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
```

```
 if err = addOpGetLicenseValidationMiddleware(stack);
 err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "GetLicense",
 }
}
```

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```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
```

```
//
  - ProductSKU
//   - Status
//   - Fingerprint
//   - IssuerName
//   - Beneficiary
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
 return err
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{},
middleware.After)
if err != nil {
 return err
}
```

```
if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack);
err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
```

```
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "ListReceivedLicenses",
 }
}
```

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```
{
  "smithy": "2.0",
  "shapes": {
```

```
    "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException": {
      "type": "structure",
      "members": {
        "message": {
          "target": "smithy.api#String"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>You don't have sufficient access to perform this action.</p>",
        "smithy.api#error": "client"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
      "type": "structure",
      "members": {
        "DirectoryId": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The directory ID for an Active Directory identity provider.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation":
"<p>Details about an Active Directory identity provider.</p>"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUser": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Associates the user to an EC2 instance to utilize user-based
subscriptions.</p>\n        <note>\n            <p>Your estimated bill for charges on the number of users and related
costs will take 48\n        hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing
status) in Amazon Web Services Billing. For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n
        monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n        </note>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/AssociateUser"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the
 EC2 instance, which provides user-based subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>The identity provider of the user.</p>",
```

"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse": {
"type": "structure",
"members": {
"InstanceUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#BoxInteger": {
"type": "integer"
},
"com.amazonaws.licensemanagerusersubscriptions#ConflictException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request couldn't be completed because it conflicted with the current state of the\n resource. ",
"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deregisters the identity provider from providing user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/DeregisterIdentityProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",

```
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse": {
    "type": "structure",
    "members": {
        "IdentityProviderSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
            "traits": {
                "smithy.api#documentation":
"<p>Metadata that describes the results of an identity provider operation.</p>",
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUser": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
         },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
```

```
        ],
        "traits": {
            "smithy.api#documentation": "<p>Disassociates the user from an EC2 instance providing user-based
subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/DisassociateUser"
            },
            "smithy.api#idempotent": {}
        }

    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation":
 "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse": {
```

"type": "structure",
"members": {
"InstanceUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}
}
}
}
},

"com.amazonaws.licensemanagerusersubscriptions#Filter": {
"type": "structure",
"members": {
"Attribute": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of an attribute to use as a filter. "
}
},
"Operation": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of search (For example, eq, geq, leq) "
}
},
"Value": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Value of the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter name and value pair that is used
to return more specific results from a describe\n operation. Filters can be used to match a set of resources by
specific criteria, such as tags,\n attributes, or IDs. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
}
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
"type": "union",

"members": {
"ActiveDirectoryIdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
"traits": {
"smithy.api#documentation": " An object that details an Active Directory identity provider. "
}
}
},
"traits": {
"smithy.api#documentation":
" Details about an identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Settings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
"traits": {
"smithy.api#documentation": " An object that details the registered identity providers product
related configuration\n settings such as the subnets to provision VPC endpoints. ",
"smithy.api#required":
{}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of an identity provider. ",
"smithy.api#required": {}
}
},
"FailureMessage": {
"target": "smithy.api#String",

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                "traits": {
                    "smithy.api#documentation": "<p>The failure message associated with an identity provider.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation":
 "<p>Describes an identity provider.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary": {
        "type": "structure",
        "members": {
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status
 of an EC2 instance resource.</p>",
                    "smithy.api#required": {}
                }
            },
            "Products": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>A list of provided user-based subscription products.</p>",
                    "smithy.api#required": {}
                }
            },
            "LastStatusCheckDate": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The date of the last status check.</p>"
                }
            },
```

"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for an EC2 instance. "
}

}
},
"traits": {
"smithy.api#documentation": " Describes an EC2 instance providing user-based subscriptions. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
},
"InstanceId": {
"target": "smithy.api#String",
"traits":
{
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of a user associated with an EC2 instance. ",

"smithy.api#required": {}
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for users of an EC2 instance. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"AssociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was associated with an EC2 instance. "
}
},
"DisassociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was disassociated from an EC2 instance. "
}
}

},
"traits": {
"smithy.api#documentation": " Describes users of an EC2 instance providing user-based subscriptions. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InternalServerException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {

"smithy.api#documentation": " An exception occurred with the service. ",
"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
"type": "service",

"version": "2018-05-10",
"operations": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUser"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"

},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
}
],
"traits": {
"aws.api#service": {
"sdkId": "License Manager User Subscriptions",
"arnNamespace": "license-manager-user-subscriptions",

"cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
},
"aws.auth#sigv4": {
"name": "license-manager-user-subscriptions"
},
"aws.protocols#restJson1": {},
"smithy.api#cors": {
"additionalAllowedHeaders": [
"*",
"content-type",
"x-amz-content-sha256",
"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",
"x-api-key",
"authorization",
"x-amz-date",
"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"

]
},
"smithy.api#documentation": " With License Manager, you can create user-based subscriptions to utilize licensed software with\n a per user subscription fee on Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager User Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack

endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}

},
"rules": [
{
"conditions": [
{
"fn": "isSet",
"argv": [
{
"ref": "Endpoint"
}
]
}
],
"type": "tree",
"rules": [
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseFIPS"
},

true
]
}
],
"error": "Invalid Configuration: FIPS and custom endpoint are not supported",
"type": "error"

```
            },
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseDualStack"
                            },
                            true
                        ]
                    }
                ],

"error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                "type": "error"
            },
            {
                "conditions": [],
                "endpoint": {
                    "url": {
                        "ref": "Endpoint"
                    },
                    "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
            }
        ]
    },
    {
        "conditions": [
            {
                "fn": "isSet",
                "argv": [

{
                        "ref": "Region"
                    }
                ]
            }
        ],
        "type": "tree",
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "aws.partition",
```

```
                "argv": [
                  {
                    "ref": "Region"
                  }
                ],
                "assign": "PartitionResult"
              }
            ],
            "type": "tree",

        "rules": [
              {
                "conditions": [
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      {
                        "ref": "UseFIPS"
                      },
                      true
                    ]
                  },
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      {
                        "ref": "UseDualStack"

                      },
                      true
                    ]
                  }
                ],
                "type": "tree",
                "rules": [
                  {
                    "conditions": [
                      {
                        "fn": "booleanEquals",
                        "argv": [
                          true,
                          {
                            "fn": "getAttr",

    "argv": [
                                  {
                                    "ref": "PartitionResult"
                                  },
```

"supportsFIPS"
]
}
]
},
{
"fn": "booleanEquals",
"argv": [
true,
{

"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},
"supportsDualStack"
]
}
]
}
],
"type": "tree",
"rules": [
{

"conditions": [],
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
},
{
"conditions": [],
"error": "FIPS and DualStack are enabled, but this partition does not support one or both",
"type": "error"
}
]
},
{
"conditions": [
{

```
                "fn": "booleanEquals",
                "argv": [
                  {
                    "ref": "UseFIPS"
                  },
                  true
                ]
              }
            ],
            "type": "tree",

        "rules": [
              {
                "conditions": [
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      true,
                      {
                        "fn": "getAttr",
                        "argv": [
                          {
                            "ref": "PartitionResult"
                          },
                          "supportsFIPS"

                 ]
                      }
                    ]
                  }
                ],
                "type": "tree",
                "rules": [
                  {
                    "conditions": [],
                    "endpoint": {
                      "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                      "properties": {},
                      "headers": {}

            },
                    "type": "endpoint"
                  }
                ]
              },
              {
                "conditions": [],
```

```
                "error": "FIPS is enabled but this partition does not support FIPS",
                "type": "error"
            }
        ]
    },
    {
        "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [
                    {
                        "ref": "UseDualStack"
                    },
                    true
                ]
            }
        ],
        "type": "tree",
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            true,
                            {

                                "fn": "getAttr",
                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },
                                    "supportsDualStack"
                                ]
                            }
                        ]
                    }
                ],
                "type": "tree",
                "rules": [
                    {

                        "conditions": [],
                        "endpoint": {
                            "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                            "properties": {},
                            "headers": {}
```

```
                                    },
                                    "type": "endpoint"
                                }
                            ]
                        },
                        {
                            "conditions": [],
                            "error": "DualStack is enabled but this partition does
not support DualStack",
                            "type": "error"
                        }
                    ]
                },
                {
                    "conditions": [],
                    "endpoint": {
                        "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
                        "properties": {},
                        "headers": {}
                    },
                    "type": "endpoint"
                }
            ]
        }
    ]
},
{
    "conditions":
[],
    "error": "Invalid Configuration: Missing Region",
    "type": "error"
}
]
},
"smithy.rules#endpointTests": {
    "testCases": [
        {
            "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
                }
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": true
```

```
            }
        },
        {
            "documentation":
"For region us-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
                }
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
                }
            },

        "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
                }
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region cn-north-1 with
FIPS enabled and DualStack enabled",
            "expect": {
                "endpoint": {
```

"url": "https://license-manager-user-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
}
},

"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,

"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1
with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
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"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {

"url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect":
{
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack":
true
}
},
{

"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but
this partition does not support one or both"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}

},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
}

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        },
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          "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
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            }
          },
           "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
          "expect": {
            "endpoint": {
              "url": "https://example.com"
            }
          },
          "params": {
            "Region": "us-east-1",
            "UseFIPS": false,
            "UseDualStack": false,
            "Endpoint": "https://example.com"
          }
        },
        {

"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
          "expect": {
            "endpoint": {
              "url": "https://example.com"
            }
          },
          "params": {
            "UseFIPS": false,
            "UseDualStack": false,
            "Endpoint": "https://example.com"
          }
        },
        {
          "documentation": "For custom endpoint with fips enabled and dualstack disabled",
          "expect": {
            "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
          },
          "params": {
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                "Region": "us-east-1",
                 "UseFIPS": true,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "For custom endpoint with fips disabled and dualstack enabled",
            "expect": {
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": true,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "Missing region",
            "expect": {
                 "error": "Invalid Configuration: Missing Region"
            }
        }
    ],
    "version": "1.0"
  }
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {
  "type": "operation",
  "input": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
  },
  "output": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
  },
  "errors": [
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
     },
    {
```

"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the identity providers for user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/ListIdentityProviders"
},
"smithy.api#paginated":
{
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "IdentityProviderSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest": {
"type": "structure",
"members": {
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse":
{
"type": "structure",

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    "members": {
      "IdentityProviderSummaries": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList",
        "traits": {
          "smithy.api#documentation": "<p>Metadata that describes the list identity providers operation.</p>",
          "smithy.api#required": {}
        }
      },
      "NextToken": {
        "target": "smithy.api#String",
        "traits": {
          "smithy.api#documentation": "<p>Token for the next set of results.</p>"
        }
      }
    }
  },
  "com.amazonaws.licensemanagerusersubscriptions#ListInstances": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
      }
    ],
    "traits": {
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"smithy.api#documentation": " Lists the EC2 instances providing user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/instance/ListInstances"
},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "InstanceSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest": {
"type": "structure",
"members": {
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse": {
"type": "structure",
"members": {
"InstanceSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list instances operation. "
}
},

"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the user-based subscription products available from an identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/ListProductSubscriptions"
},
"smithy.api#paginated": {

"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "ProductUserSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest": {
"type": "structure",
"members": {
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name
of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {

"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match
one or\n more sets of key-value pairs that you specify. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse": {

"type": "structure",
"members": {
"ProductUserSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list product subscriptions operation. "
}
},

"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"

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            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists user associations for an identity provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/ListUserAssociations"
            },
            "smithy.api#paginated":
 {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "InstanceUserSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest": {
        "type": "structure",
        "members": {
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity
 provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify.</p>"
```

```
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for
the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse": {
    "type": "structure",
    "members": {
        "InstanceUserSummaries": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList",
            "traits": {
                "smithy.api#documentation": "<p>Metadata that describes the list user association operation.</p>"
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary": {
    "type": "structure",
    "members": {

    "Username": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
                "smithy.api#required": {}
            }
        },
        "Product": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                "smithy.api#required": {}
            }
        },
        "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
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"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}

},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of a product for a user. ",
"smithy.api#required": {}
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for a product for a user. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"SubscriptionStartDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The
start date of a subscription. "
}
},
"SubscriptionEndDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The end date of a subscription. "
}
}
},
"traits": {
"smithy.api#documentation": " The summary of the user-based subscription products for a user. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
}

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},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Registers an identity provider for user-based subscriptions.</p>",
        "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/identity-provider/RegisterIdentityProvider"
        },
        "smithy.api#idempotent": {}
    }
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest": {
    "type": "structure",
    "members": {
        "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
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"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Settings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings such as the\n subnets to provision VPC endpoints. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the results of an identity provider operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The resource couldn't be found. ",
"smithy.api#error": "client",
"smithy.api#httpError": 404
}
},

"com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
"type": "string",

"traits": {
"smithy.api#length": {
"min": 5,
"max": 200
},
"smithy.api#pattern": "^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request failed because a service quota is exceeded. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#Settings": {
"type": "structure",
"members": {
"Subnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation":
" The subnets defined for the registered identity provider. ",
"smithy.api#length": {
"min": 1
},
"smithy.api#required": {}
}
},
"SecurityGroupId": {
"target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
"traits": {
"smithy.api#documentation": " A security group ID that allows inbound TCP port 1688
communication between resources in\n your VPC and the VPC endpoint for activation servers. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings

such as the\n subnets to provision VPC endpoints, and the security group ID that
is associated with the VPC\n endpoints. The security group should permit inbound TCP port 1688
communication from resources\n in the VPC. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Starts a product subscription for a user with the specified identity
provider. \n <note>\n Your estimated bill for charges on the number of users and related costs
will take 48\n hours to appear for billing periods that haven't closed (marked as Pending billing status)
in Amazon Web Services Billing.
For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n monthly
charges in the Amazon Web Services Billing User Guide. \n </note>",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/StartProductSubscription"

```
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                 "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse": {
        "type": "structure",
         "members": {
            "ProductUserSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the start product subscription
operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
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"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"
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"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
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"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"

},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Stops a product subscription for a user with the specified identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/StopProductSubscription"
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},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {

"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
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"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
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"Product": {
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"smithy.api#documentation": " The name of the user-based subscription product. ",
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"Domain": {
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"smithy.api#documentation": " The domain name of the user. "
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"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse": {
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"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
"traits": {
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" Metadata that describes the start product subscription operation. ",
"smithy.api#required": {}
}
}
}
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"com.amazonaws.licensemanagerusersubscriptions#StringList": {
"type": "list",
"member": {
"target": "smithy.api#String"
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"com.amazonaws.licensemanagerusersubscriptions#Subnet": {
"type": "string",

"traits": {
"smithy.api#pattern": "subnet-[a-z0-9]{8,17}"
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"com.amazonaws.licensemanagerusersubscriptions#Subnets": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnet"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ThrottlingException": {
"type": "structure",
"members": {
"message": {

"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request was denied because of request throttling. Retry the request. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
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"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
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"errors": [
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"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates additional product configuration settings for the registered

identity\n provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/UpdateIdentityProviderSettings"
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"smithy.api#idempotent": {}
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"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#required": {}
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"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
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"UpdateSettings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings",
"traits": {
"smithy.api#documentation": " Updates the registered identity providers product related configuration settings. You can\n update any combination of settings in a single operation such as the: \n \n \n Subnets which you want to add to provision VPC endpoints. \n \n \n Subnets which you want to remove the VPC endpoints from. \n \n \n Security group ID which permits traffic to the VPC endpoints. \n \n ",
"smithy.api#required": {}
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},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#required": {}
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    "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings": {
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      "members": {
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         "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
          "traits": {
            "smithy.api#documentation": "<p>The ID of one or more subnets in which License Manager will
create a VPC endpoint for products that\n      require connectivity to activation servers.</p>",
            "smithy.api#required": {}
          }
        },
        "RemoveSubnets": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
          "traits": {
            "smithy.api#documentation": "<p>The ID of one or more subnets to remove.</p>",
            "smithy.api#required": {}
          }
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        "SecurityGroupId": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
          "traits": {
            "smithy.api#documentation": "<p>A security group ID
 that allows inbound TCP port 1688 communication between resources in\n      your VPC and the VPC endpoints for
activation servers.</p>"
          }
        }
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      "traits": {
        "smithy.api#documentation": "<p>Updates the registered identity providers product related configuration
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      }
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      "members": {
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          "target": "smithy.api#String"
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      "traits": {
        "smithy.api#documentation": "<p>A parameter is not valid.</p>",
        "smithy.api#error": "client"
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        "namespace": "*"
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        "id": "HttpHeaderTrait",
        "namespace": "*"
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        "id": "HttpUriConflict",
        "namespace": "*"
      },
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        "id": "Service",
        "namespace": "*"
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    "com.amazonaws.licensemanager#AWSLicenseManager": {
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      "version": "2018-08-01",
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          "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
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      "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
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      "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
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      "target": "com.amazonaws.licensemanager#DeleteToken"
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      "target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

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      "target": "com.amazonaws.licensemanager#GetAccessToken"
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    {
      "target": "com.amazonaws.licensemanager#GetGrant"
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  "target": "com.amazonaws.licensemanager#ListLicenseVersions"
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        "target": "com.amazonaws.licensemanager#ListTokens"
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        "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
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        "target": "com.amazonaws.licensemanager#TagResource"
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        "target": "com.amazonaws.licensemanager#UntagResource"
    },
    {
        "target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
    },
    {
        "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
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        "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
    },
    {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettings"
    }
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"traits": {
    "aws.api#service": {
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"sdkId": "License Manager",
"arnNamespace": "license-manager",
"cloudFormationName": "LicenseManager",
"cloudTrailEventSource": "licensemanager.amazonaws.com",
"endpointPrefix": "license-manager"
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"aws.auth#sigv4": {
"name": "license-manager"
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"aws.protocols#awsJson1_1": {},
"smithy.api#documentation": " License Manager makes it easier to manage licenses from software vendors across multiple \n Amazon Web Services accounts and on-premises servers. ",
"smithy.api#title": "AWS License Manager",
"smithy.api#xmlNamespace": {
"uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
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"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
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"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
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"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
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            "type": "error"
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"conditions": [
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                "argv": [
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                    "ref": "UseDualStack"
                  },
                  true
                ]
              }
            ],
            "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
            "type": "error"
          },
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                "fn": "isSet",
                "argv": [
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                    "argv": [
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                "rules": [
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                        "argv": [
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"UseFIPS"
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                    true
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                "argv": [
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                                        "ref": "PartitionResult"
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                                    "supportsFIPS"
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                        "argv": [
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                                        "ref": "PartitionResult"
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"supportsDualStack"
                                ]
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                        ]
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fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                            "properties": {},
                            "headers": {}

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                        "type": "endpoint"
                    }
                ]
            },
            {
                "conditions": [],
                "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
                "type": "error"
            }
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    {
        "conditions": [
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                "fn": "booleanEquals",

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                    },
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        "rules": [
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                  "supportsFIPS"
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            ]
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              "headers": {}
            },
            "type": "endpoint"
          }
        ]
      },
      {
        "conditions": [],
        "error": "FIPS is enabled but this
partition does not support FIPS",
        "type": "error"
      }
    ]
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    "conditions": [
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        "fn": "booleanEquals",
        "argv": [
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            "ref": "UseDualStack"
          },
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                            "argv": [
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                                "ref": "PartitionResult"
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"supportsDualStack"
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                          }
                        ]
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manager.{Region}.{PartitionResult#dualStackDnsSuffix}",
                          "properties": {},
                          "headers": {}

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                        "type": "endpoint"
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                  {
                    "conditions": [],
                    "error": "DualStack is enabled but this partition does not support DualStack",
                    "type": "error"
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                "conditions": [],
                "endpoint": {
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                   "properties": {},
                  "headers": {}
```

```
                    },
                    "type": "endpoint"
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            ]
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    "type": "error"
}
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"smithy.rules#endpointTests": {
    "testCases": [
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            "documentation": "For region af-south-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint":
{
                    "url": "https://license-manager.af-south-1.amazonaws.com"
                }
            },
            "params": {
                "Region": "af-south-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region ap-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.ap-east-1.amazonaws.com"
                }
            },
            "params": {
                "Region": "ap-east-1",
                "UseFIPS": false,
                "UseDualStack": false
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            "documentation": "For region ap-northeast-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.ap-northeast-1.amazonaws.com"
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        },
        "params": {
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            "UseFIPS": false,
            "UseDualStack": false
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        "documentation": "For region ap-northeast-2 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.ap-northeast-2.amazonaws.com"
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        },
        "params": {
            "Region": "ap-northeast-2",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
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        "documentation": "For region ap-northeast-3 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.ap-northeast-3.amazonaws.com"
            }
        },
        "params": {
            "Region": "ap-northeast-3",
            "UseFIPS": false,
            "UseDualStack": false
        }

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    {
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        "expect": {
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        },
        "params": {
            "Region": "ap-south-1",
            "UseFIPS": false,
            "UseDualStack": false
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{
"documentation": "For region ap-southeast-1 with FIPS disabled and DualStack disabled",
"expect": {
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"url": "https://license-manager.ap-southeast-1.amazonaws.com"

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"params": {
"Region": "ap-southeast-1",
"UseFIPS": false,
"UseDualStack": false
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{
"documentation": "For region ap-southeast-2 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
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"params": {
"Region": "ap-southeast-2",
"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
"expect": {
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"params": {
"Region": "ap-southeast-3",
"UseFIPS": false,
"UseDualStack": false
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"params": {
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disabled and DualStack disabled",
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"url": "https://license-manager.eu-north-1.amazonaws.com"
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"params": {
"Region": "eu-north-1",
"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
"expect": {
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"Region":
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          "params": {
            "Region": "eu-west-1",
            "UseFIPS": false,
            "UseDualStack": false
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          "documentation": "For region eu-west-2 with FIPS disabled and DualStack disabled",
          "expect": {

          "endpoint": {
              "url": "https://license-manager.eu-west-2.amazonaws.com"
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          "params": {
            "Region": "eu-west-2",
            "UseFIPS": false,
            "UseDualStack": false
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          "expect": {
            "endpoint": {
              "url": "https://license-manager.eu-west-3.amazonaws.com"
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          "params": {
            "Region": "eu-west-3",
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"UseDualStack": false
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          "documentation": "For region me-south-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.me-south-1.amazonaws.com"
            }
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"params": {
"Region": "me-south-1",
"UseFIPS": false,
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"documentation": "For region sa-east-1 with FIPS disabled and DualStack disabled",
"expect": {
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"url": "https://license-manager.sa-east-1.amazonaws.com"
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"params": {
"Region": "sa-east-1",
"UseFIPS": false,
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"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
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"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-east-1.amazonaws.com"
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"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false
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{
"documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",

"expect": {
"endpoint": {
"url": "https://license-manager.us-east-2.amazonaws.com"
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"params": {
"Region": "us-east-2",
"UseFIPS": false,
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"documentation": "For region us-east-2 with FIPS enabled and DualStack disabled",
"expect": {
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}
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"params": {
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"UseFIPS": true,
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"documentation": "For region
us-west-1 with FIPS disabled and DualStack disabled",
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"documentation": "For region us-west-1 with FIPS enabled and DualStack disabled",
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"params": {

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"documentation": "For region us-west-2 with FIPS disabled and DualStack disabled",
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"UseDualStack": false
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"params": {
"Region": "us-east-1",
"UseFIPS": true,

"UseDualStack": true
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"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",

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"url": "https://license-manager.us-east-1.api.aws"
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"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
}
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"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url":
"https://license-manager.cn-north-1.amazonaws.com.cn"
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"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
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"expect": {
"endpoint": {
"url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
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"params": {
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            "Region": "cn-north-1",
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            "UseDualStack": true
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            "endpoint": {
                "url": "https://license-manager.us-gov-east-1.amazonaws.com"
            }
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        "params": {
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"url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
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"UseDualStack": false
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"url": "https://license-manager.us-gov-west-1.amazonaws.com"
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"params": {
"Region": "us-gov-west-1",
"UseFIPS": false,
"UseDualStack": false
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}
},

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"UseDualStack": true

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                "UseDualStack": true
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            "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack
disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
                }
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
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            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
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            "params": {
                "Region": "us-iso-east-1",
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                 "UseDualStack": true
            }
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            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
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                    "url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
                }
            },
            "params": {
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"Region": "us-iso-east-1",
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"UseDualStack": false
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"expect": {
"error": "DualStack is enabled
but this partition does not support DualStack"
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"params": {
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"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
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"url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
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"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": false
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"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
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"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
}

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                        "UseDualStack": false
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                    "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
                    "expect": {
                        "error": "DualStack is enabled but this partition does not support DualStack"
                    },
                    "params": {
                        "Region": "us-isob-east-1",
                        "UseFIPS": false,
                        "UseDualStack": true
                    }
                },
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                    "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",

    "expect": {
                        "endpoint": {
                            "url": "https://example.com"
                        }
                    },
                    "params": {
                        "Region": "us-east-1",
                        "UseFIPS": false,
                        "UseDualStack": false,
                        "Endpoint": "https://example.com"
                    }
                },
                {
                    "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",
                    "expect": {
                        "endpoint": {
                            "url": "https://example.com"
                        }
                    },
                    "params": {
                        "UseFIPS": false,

        "UseDualStack": false,
                        "Endpoint": "https://example.com"
                    }
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                },
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                    "documentation": "For custom endpoint with fips enabled and dualstack disabled",
                    "expect": {
                        "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
                    },
                    "params": {
                        "Region": "us-east-1",
                        "UseFIPS": true,
                        "UseDualStack": false,
                        "Endpoint": "https://example.com"
                    }
                },
                {
                    "documentation": "For custom endpoint with fips disabled and dualstack enabled",
                    "expect": {
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"Invalid Configuration: Dualstack and custom endpoint are not supported"
                    },
                    "params": {
                        "Region": "us-east-1",
                        "UseFIPS": false,
                        "UseDualStack": true,
                        "Endpoint": "https://example.com"
                    }
                },
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                    "documentation": "Missing region",
                    "expect": {
                        "error": "Invalid Configuration: Missing Region"
                    }
                }
            ],
            "version": "1.0"
        }
    }
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"com.amazonaws.licensemanager#AcceptGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#AcceptGrantRequest"

},
    "output": {
        "target": "com.amazonaws.licensemanager#AcceptGrantResponse"
    },
    "errors": [
        {
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            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"

}
    ],
    "traits": {
        "smithy.api#documentation": "<p>Accepts the specified grant.</p>"
    }
  },
  "com.amazonaws.licensemanager#AcceptGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
  },
  "com.amazonaws.licensemanager#AcceptGrantResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant
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ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#AccessDeniedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {

"code": "ServiceAccessDenied",
"httpResponseCode": 401
},
"smithy.api#documentation": " Access to resource denied. ",
"smithy.api#error": "client",
"smithy.api#httpError": 401
}
},
"com.amazonaws.licensemanager#ActivationOverrideBehavior": {
"type": "enum",
"members": {
"DISTRIBUTED_GRANTS_ONLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DISTRIBUTED_GRANTS_ONLY"
}
},
"ALL_GRANTS_PERMITTED_BY_ISSUER": {

"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ALL_GRANTS_PERMITTED_BY_ISSUER"
}
}
}
},
"com.amazonaws.licensemanager#AllowedOperation": {

"type": "enum",
"members": {
"CREATE_GRANT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CreateGrant"
}
},
"CHECKOUT_LICENSE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CheckoutLicense"
}
},
"CHECKOUT_BORROW_LICENSE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CheckoutBorrowLicense"
}
},
"CHECK_IN_LICENSE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CheckInLicense"
}
},
"EXTEND_CONSUMPTION_LICENSE":
{
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ExtendConsumptionLicense"
}
},
"LIST_PURCHASED_LICENSES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ListPurchasedLicenses"
}
},

"CREATE_TOKEN": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CreateToken"
}
}
}
},
"com.amazonaws.licensemanager#AllowedOperationList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#AllowedOperation"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max":
7
}
}
},
"com.amazonaws.licensemanager#Arn": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 2048
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"smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
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"com.amazonaws.licensemanager#ArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
}
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"com.amazonaws.licensemanager#AuthorizationException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError":

{
"code": "AuthorizationFailure",
"httpResponseCode": 403
},
"smithy.api#documentation": " The Amazon Web Services user account does not have permission to perform the action. Check the IAM\n policy associated with this account. ",
"smithy.api#error": "client",
"smithy.api#httpError": 403
}
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"com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
"type": "structure",
"members": {
"LastRunTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time that automated discovery last ran. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes automated discovery. "
}
},

"com.amazonaws.licensemanager#Boolean": {
"type": "boolean",
"traits": {
"smithy.api#default": false
}
},
"com.amazonaws.licensemanager#BorrowConfiguration": {
"type": "structure",
"members": {
"AllowEarlyCheckIn": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether early check-ins are allowed. ",
"smithy.api#required": {}
}
},
"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the borrow configuration, in minutes. ",
"smithy.api#required": {}
}
}

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},
        "traits": {
            "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#BoxBoolean": {
        "type": "boolean"
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    "com.amazonaws.licensemanager#BoxInteger": {
        "type": "integer"
    },
    "com.amazonaws.licensemanager#BoxLong": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#CheckInLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
        },
        "errors": [
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                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"

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            {
                "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
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            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks in the specified license. Check in a license when it is no longer
in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseRequest":
{
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",
                    "smithy.api#required": {}
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License beneficiary.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
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    "com.amazonaws.licensemanager#CheckInLicenseResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicense":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
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        "errors": [
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                "target": "com.amazonaws.licensemanager#AccessDeniedException"
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            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {
                "target":
"com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
        "type": "structure",
        "members":
{
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The license must
use the borrow consumption configuration.</p>",
                    "smithy.api#required": {}
                }
```

```
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements. Partial checkouts are not supported.</p>",
                    "smithy.api#required": {}
                }
            },
            "DigitalSignatureMethod": {
                "target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
                "traits": {
                    "smithy.api#documentation": "<p>Digital signature method. The possible
 value is JSON Web Signature (JWS) algorithm PS384.\n        For more information, see <a
href=\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital Signature with RSASSA-PSS</a>.</p>",
                    "smithy.api#required": {}
                }
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Node ID.</p>"
                }
            },
            "CheckoutMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about constraints.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation":
 "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
```

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},
"EntitlementsAllowed":
{
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " Allowed license entitlements. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"SignedToken": {
"target": "com.amazonaws.licensemanager#SignedToken",
"traits": {
"smithy.api#documentation": " Signed token. "
}
},
"IssuedAt": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout
is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout expires. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about constraints. "
}
}
},

"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target":
"com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks out the specified license. \n <note>\n If the
account that created the license is the same that is performing the check out, you must\n specify the account

as the beneficiary. \n </note>"
  }
  },
  "com.amazonaws.licensemanager#CheckoutLicenseRequest": {
    "type": "structure",
    "members": {
      "ProductSKU": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": " Product
 SKU. ",
          "smithy.api#required": {}
        }
      },
      "CheckoutType": {
        "target": "com.amazonaws.licensemanager#CheckoutType",
        "traits": {
          "smithy.api#documentation": " Checkout type. ",
          "smithy.api#required": {}
        }
      },
      "KeyFingerprint": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": " Key fingerprint identifying the license. ",
          "smithy.api#required": {}
        }
      },
      "Entitlements": {
        "target": "com.amazonaws.licensemanager#EntitlementDataList",
        "traits": {
          "smithy.api#documentation": " License entitlements. ",

  "smithy.api#required": {}
        }
      },
      "ClientToken": {
        "target": "com.amazonaws.licensemanager#ClientToken",
        "traits": {
          "smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request. ",
          "smithy.api#required": {}
        }
      },
      "Beneficiary": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": " License beneficiary. "

```
            }
        },
        "NodeId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
            }
        }
    },
    "traits": {

   "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
    "type": "structure",
    "members": {
        "CheckoutType": {
            "target": "com.amazonaws.licensemanager#CheckoutType",
            "traits": {
                "smithy.api#documentation": "<p>Checkout type.</p>"
            }
        },
        "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License consumption token.</p>"
            }
        },
        "EntitlementsAllowed": {
            "target": "com.amazonaws.licensemanager#EntitlementDataList",
            "traits": {
                "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
            }
        },
         "SignedToken": {
            "target": "com.amazonaws.licensemanager#SignedToken",
            "traits": {
                "smithy.api#documentation": "<p>Signed token.</p>"
            }
        },
        "NodeId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
            }
        },
        "IssuedAt": {
```

"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and
time at which the license checkout expires. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the checkout license. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutType": {
"type": "enum",
"members": {
"PROVISIONAL": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PROVISIONAL"
}
},
"PERPETUAL": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PERPETUAL"
}
}
}
},
"com.amazonaws.licensemanager#ClientRequestToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 36
}
}

```
    },
    "com.amazonaws.licensemanager#ClientToken": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 2048
            },
            "smithy.api#pattern": "^\\S+$"
        }
    },
    "com.amazonaws.licensemanager#ConflictException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "ConflictException",
                "httpResponseCode":
 409
            },
            "smithy.api#documentation": "<p>There was a conflict processing the request. Try your request
again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 409
        }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummary": {
        "type": "structure",
        "members": {
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
                }
            },
            "ConsumedLicenses": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
                }
            }
        },
```

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"traits": {
            "smithy.api#documentation": "<p>Details about license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
        }
    },
    "com.amazonaws.licensemanager#ConsumptionConfiguration": {
        "type": "structure",
        "members": {
            "RenewType": {
                "target": "com.amazonaws.licensemanager#RenewType",
                "traits": {
                    "smithy.api#documentation": "<p>Renewal frequency.</p>"
                }
            },
            "ProvisionalConfiguration": {
                "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
                 }
            },
            "BorrowConfiguration": {
                "target": "com.amazonaws.licensemanager#BorrowConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
```

```
            {
                "target":
 "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a grant for the specified license. A grant shares the use of
license\n        entitlements with a specific Amazon Web Services account, an organization, or an\n
organizational unit (OU). For more
 information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-
licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantRequest": {
        "type": "structure",
        "members": {
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>",
                    "smithy.api#required": {}

    }
            },
            "LicenseArn": {
```

"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Principals": {
"target": "com.amazonaws.licensemanager#PrincipalArnList",
"traits": {
"smithy.api#documentation": " The grant principals. You can specify one of the following as an Amazon Resource Name\n (ARN): \n \n \n An Amazon Web Services account, which includes only the account specified. \n \n \n \n \n An organizational unit (OU), which includes all accounts in the OU. \n \n \n \n \n An organization, which will include all accounts across your organization. \n \n ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations for the grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},

"com.amazonaws.licensemanager#CreateGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},

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            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersion":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
             },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
```

```
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified grant. For more information,
see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-
licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersionRequest": {
        "type": "structure",
        "members": {
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",

  "smithy.api#required": {}
                }
            },
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>"
                }
            },
            "AllowedOperations": {
                "target": "com.amazonaws.licensemanager#AllowedOperationList",
                "traits": {
                    "smithy.api#documentation": "<p>Allowed operations for the grant.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                 "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "StatusReason": {
                "target": "com.amazonaws.licensemanager#StatusReasonMessage",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status reason.</p>"
```

```
            }
          },
          "SourceVersion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Current version of the grant.</p>"
            }
          },
          "Options": {
            "target": "com.amazonaws.licensemanager#Options",
            "traits": {
              "smithy.api#documentation": "<p>The options specified for the grant.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#CreateGrantVersionResponse": {
        "type": "structure",
        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": "<p>Grant status.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>New version of the grant.</p>"
            }
          }
        },
        "traits":
{
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicense": {
        "type": "operation",
```

```
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a license.</p>"
    }
},
"com.amazonaws.licensemanager#CreateLicenseConfiguration": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license configuration.</p>\n        <p>A license configuration is an abstraction of a customer license agreement that can be\n        consumed and enforced by License Manager. Components include specifications for the license\n        type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n        Dedicated Instance, Dedicated Host, or all of these), license affinity  to host (how long a \n        license must be associated with a host), and the number of licenses purchased and used.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Description of the license configuration.</p>"
                }
            },
            "LicenseCountingType": {
                "target": "com.amazonaws.licensemanager#LicenseCountingType",
                "traits": {
                    "smithy.api#documentation": "<p>Dimension used to track the license inventory.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
```

"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether hard or soft license enforcement is used. Exceeding a hard limit\n blocks the launch of new instances. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules \n vary by dimension, as follows. \n \n \n \n <code>Cores</code> dimension: <code>allowedTenancy</code> |\n <code>licenseAffinityToHost</code> |\n <code>maximumCores</code> | <code>minimumCores</code>\n \n \n \n \n <code>Instances</code> dimension: <code>allowedTenancy</code> | \n <code>maximumCores</code> | <code>minimumCores</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code> |\n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n
\n <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n <code>licenseAffinityToHost</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code>\n \n \n \n \n <code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n <code>honorVcpuOptimization</code> | \n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n The unit for <code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n <code>True</code> and <code>False</code>. "
}
},

"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the license configuration. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "

```
            }
          },
          "ProductInformationList": {
            "target": "com.amazonaws.licensemanager#ProductInformationList",
            "traits": {
              "smithy.api#documentation": "<p>Product information.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse":
{
        "type": "structure",
        "members": {
          "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
           },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new license conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {

                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource you are converting
the license type for.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting
from. \n\n        For the structure of the source license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            },
            "DestinationLicenseContext":
 {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting to.
For the structure of the destination license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
```

```
    }
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
    "type": "structure",
    "members": {
        "LicenseConversionTaskId": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",

   "traits": {
                "smithy.api#documentation": "<p>The ID of the created license type conversion task.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
         },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
```

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a report generator. "
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"ReportGeneratorName":
{
"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports to generate. The following report types an be generated: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}

}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " Defines the type of license configuration the report generator tracks. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",

"traits": {
"smithy.api#documentation": " Unique,
case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the new report
generator. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseRequest": {
"type": "structure",
"members": {
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. ",
"smithy.api#required": {}
}

},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product
name. ",
"smithy.api#required": {}
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. ",
"smithy.api#required": {}
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#Issuer",
"traits": {
"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region for the license. ",
"smithy.api#required": {}

}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-
UTC format. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " License beneficiary. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},

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        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseVersion": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
    }
```

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    },
    "com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target":
"com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "LicenseName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License name.</p>",
            "smithy.api#required": {}
          }
        },
        "ProductName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product name.</p>",
            "smithy.api#required": {}
          }
        },
        "Issuer": {
          "target": "com.amazonaws.licensemanager#Issuer",
          "traits":
{
            "smithy.api#documentation": "<p>License issuer.</p>",
            "smithy.api#required": {}
          }
        },
        "HomeRegion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Home Region of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "Validity": {
          "target": "com.amazonaws.licensemanager#DatetimeRange",
          "traits": {
            "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
            "smithy.api#required": {}
          }
```

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            },
            "LicenseMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license.</p>"
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>",
                    "smithy.api#required": {}
                }
            },
            "ConsumptionConfiguration": {
                "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional
configuration for workloads\n         running with continuous connectivity. Choose a borrow configuration for
workloads with offline\n         usage.</p>",
                    "smithy.api#required": {}
                }
            },

   "Status": {
                "target": "com.amazonaws.licensemanager#LicenseStatus",
                "traits": {
                    "smithy.api#documentation": "<p>License status.</p>",
                    "smithy.api#required": {}
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the license.</p>"
                }
            }
        },
        "traits": {
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"smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": " License ARN. "
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": " New version of the license. "
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseStatus",
                "traits": {
                    "smithy.api#documentation": " License status. "
                }
            }
        },
        "traits": {
            "smithy.api#output":
{}
        }
    },
    "com.amazonaws.licensemanager#CreateToken": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateTokenRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateTokenResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },

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            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },

        {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a long-lived token.</p>\n        <p>A refresh token is a JWT token used to get an access token. With an access token,\n          you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n          call License Manager to manage the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateTokenRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits":
 {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n          JWT token.</p>",
                    "smithy.api#required": {}
                }
            },
            "RoleArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n        License Manager does not check whether the roles are in use.</p>"
                }
            },
            "ExpirationInDays": {
                "target": "com.amazonaws.licensemanager#Integer",
                "traits": {
                    "smithy.api#documentation": "<p>Token expiration, in days, counted from token creation. The default is 365 days.</p>"
                }
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            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Data specified by the caller to be included in the JWT token. The
data is mapped\n          to the amr claim of the JWT token.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Idempotency token, valid for 10 minutes.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateTokenResponse": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",

                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
            "TokenType": {
                "target": "com.amazonaws.licensemanager#TokenType",
                "traits": {
                    "smithy.api#documentation": "<p>Token type.</p>"
                }
            },
            "Token": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DateTime": {
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    "type": "timestamp"
  },
  "com.amazonaws.licensemanager#DatetimeRange": {
    "type": "structure",
    "members": {
      "Begin": {
          "target": "com.amazonaws.licensemanager#ISO8601DateTime",
        "traits": {
          "smithy.api#documentation": "<p>Start of the time range.</p>",
          "smithy.api#required": {}
        }
      },
      "End": {
        "target": "com.amazonaws.licensemanager#ISO8601DateTime",
        "traits": {
          "smithy.api#documentation": "<p>End of the time range.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC format.</p>"
    }
  },
  "com.amazonaws.licensemanager#DeleteGrant": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
     },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
      },
      {
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"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes
the specified grant. "
}
},
"com.amazonaws.licensemanager#DeleteGrantRequest": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " The Status reason for the delete request. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the
grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}

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            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
"<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"

},
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
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"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license configuration. \n You cannot delete a license configuration that is in use. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
"type": "structure",
"members":
{
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

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            "smithy.api#documentation": "<p>ID of the license configuration.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
      "type": "structure",
      "members": {},
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
       },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target": "com.amazonaws.licensemanager#ValidationException"
```

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            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified report generator.</p>\n        <p>This action deletes the report generator, which stops it from generating future reports.\n        The action cannot be reversed. It has no effect on the previous reports from this generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to be deleted.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {

 "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the license.</p>",
                    "smithy.api#required":
```

{}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseResponse": {
"type": "structure",
"members": {
"Status": {
"target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"DeletionDate": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date when the license is deleted. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#DeleteToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"

```
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },

        {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteTokenRequest": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteTokenResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}

      }
    },
    "com.amazonaws.licensemanager#DigitalSignatureMethod": {
        "type": "enum",
        "members": {
            "JWT_PS384": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "JWT_PS384"
                }
```

```
            }
        }
    },
    "com.amazonaws.licensemanager#Entitlement": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement name.</p>",
                    "smithy.api#required": {}
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement resource. Use only
if the unit is None.</p>"
                }
            },
            "MaxCount": {
                "target": "com.amazonaws.licensemanager#Long",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
                }
            },
            "Overage": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether overages are allowed.</p>"
                }
            },
            "Unit": {
                "target": "com.amazonaws.licensemanager#EntitlementUnit",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement unit.</p>",
                    "smithy.api#required": {}
                }
            },
            "AllowCheckIn": {
                "target":
"com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether check-ins are allowed.</p>"
                }
            }
        },
        "traits": {
```

"smithy.api#documentation": " Describes a resource entitled for use with a license. "
}
},
"com.amazonaws.licensemanager#EntitlementData": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement data name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement
data value. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementDataUnit",
"traits": {
"smithy.api#documentation": " Entitlement data unit. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Data associated with an entitlement resource. "
}
},
"com.amazonaws.licensemanager#EntitlementDataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#EntitlementData"
}
},
"com.amazonaws.licensemanager#EntitlementDataUnit": {
"type": "enum",
"members": {
"COUNT": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Count"
}
},

```
"NONE": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "None"
    }
},
"SECONDS": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Seconds"
    }
},
"MICROSECONDS": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Microseconds"
    }
},
"MILLISECONDS": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Milliseconds"
    }
},
"BYTES": {
    "target": "smithy.api#Unit",
     "traits": {
        "smithy.api#enumValue": "Bytes"
    }
},
"KILOBYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Kilobytes"
    }
},
"MEGABYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Megabytes"
    }
},
"GIGABYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Gigabytes"
    }
},
```

"TERABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabytes"
}
},
"BITS":
{
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits"
}
},
"KILOBITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobits"
}
},
"MEGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits"
}
},
"GIGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits"
}
},
"TERABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits"

}
},
"PERCENT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Percent"
}
},
"BYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes/Second"

```
            }
        },
        "KILOBYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobytes/Second"
            }
        },
        "MEGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabytes/Second"
            }
        },
        "GIGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "Gigabytes/Second"
            }
        },
        "TERABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabytes/Second"
            }
        },
        "BITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bits/Second"
            }
        },
        "KILOBITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobits/Second"
            }
        },
        "MEGABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue":
"Megabits/Second"
            }
        },
        "GIGABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
```

"smithy.api#enumValue": "Gigabits/Second"
}
},
"TERABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits/Second"
}
},
"COUNT_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Count/Second"
}
}
}
},
"com.amazonaws.licensemanager#EntitlementList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Entitlement"
}
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException":
{
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The entitlement is not allowed. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#EntitlementUnit": {
"type": "enum",
"members": {
"COUNT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Count"
}
},
"NONE": {
"target": "smithy.api#Unit",

"traits": {
"smithy.api#enumValue": "None"
}
},
"SECONDS":
{
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Seconds"
}
},
"MICROSECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Microseconds"
}
},
"MILLISECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Milliseconds"
}
},
"BYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes"
}
},
"KILOBYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes"
}
},
"MEGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes"
}
},
"GIGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes"
}
},
"TERABYTES": {

"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabytes"
}
},
"BITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits"
}
},
"KILOBITS": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Kilobits"
}
},
"MEGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits"
}
},
"GIGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits"
}
},
"TERABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits"
}
},
"PERCENT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Percent"
}
},
"BYTES_PER_SECOND": {
"target":
"smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes/Second"
}

```
        },
        "KILOBYTES_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Kilobytes/Second"
          }
        },
        "MEGABYTES_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Megabytes/Second"
          }
        },
        "GIGABYTES_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Gigabytes/Second"
          }
        },
        "TERABYTES_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {

"smithy.api#enumValue": "Terabytes/Second"
          }
        },
        "BITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Bits/Second"
          }
        },
        "KILOBITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Kilobits/Second"
          }
        },
        "MEGABITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Megabits/Second"
          }
        },
        "GIGABITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Gigabits/Second"
```

```
            }
        },

    "TERABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabits/Second"
            }
        },
        "COUNT_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Count/Second"
            }
        }
    }
},
"com.amazonaws.licensemanager#EntitlementUsage": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage name.</p>",
                "smithy.api#required": {}
            }
        },
        "ConsumedValue": {
            "target": "com.amazonaws.licensemanager#String",

        "traits": {
                "smithy.api#documentation": "<p>Resource usage consumed.</p>",
                "smithy.api#required": {}
            }
        },
        "MaxCount": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
            }
        },
        "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
                "smithy.api#required": {}
            }
        }
```

```
        },
        "traits": {
            "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementUsageList":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#EntitlementUsage"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumption": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
```

```
        "type": "structure",
        "members": {
          "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>License consumption token.</p>",
              "smithy.api#required": {}

      }
          },
          "DryRun": {
            "target": "com.amazonaws.licensemanager#Boolean",
            "traits": {
              "smithy.api#default": false,
              "smithy.api#documentation": "<p>Checks whether you have the required permissions for the action,
without actually making the request. Provides an error response if you do not have the required permissions.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
        "type": "structure",
        "members": {
          "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>License consumption token.</p>"
            }
          },

          "Expiration": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Date and time at which the license consumption expires.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#FailedDependencyException": {
        "type": "structure",
        "members": {
          "Message": {
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"target": "com.amazonaws.licensemanager#Message"
},
"ErrorCode": {
"target": "com.amazonaws.licensemanager#String"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "FailedDependency",
"httpResponseCode": 424
},
"smithy.api#documentation":
" A dependency required to run the API is missing. ",
"smithy.api#error": "client",
"smithy.api#httpError": 424
}
},
"com.amazonaws.licensemanager#Filter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#FilterName",
"traits": {
"smithy.api#documentation": " Name of the filter. Filter names are case-sensitive. "
}
},
"Values": {
"target": "com.amazonaws.licensemanager#FilterValues",
"traits": {
"smithy.api#documentation": " The value of the filter, which is case-sensitive. You can only
specify one value for the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter
name and value pair that is used to return more specific results from a\n describe operation. Filters can be used
to match a set of resources by specific criteria,\n such as tags, attributes, or IDs. "
}
},
"com.amazonaws.licensemanager#FilterLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {

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        "aws.protocols#awsQueryError": {
            "code": "FilterLimitExceeded",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The request uses too many filters or too many filter values.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#FilterList": {
    "type": "list",
     "member": {
        "target": "com.amazonaws.licensemanager#Filter"
    }
},
"com.amazonaws.licensemanager#FilterName": {
    "type": "string"
},
"com.amazonaws.licensemanager#FilterValue": {
    "type": "string"
},
"com.amazonaws.licensemanager#FilterValues": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#FilterValue",
        "traits": {
            "smithy.api#xmlName": "item"
        }
    }
},
"com.amazonaws.licensemanager#Filters": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Filter",
        "traits": {
            "smithy.api#xmlName": "item"
        }
    }
},
"com.amazonaws.licensemanager#GetAccessToken": {
    "type": "operation",
    "input": {
         "target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
    },
    "errors": [
```

```
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets a temporary access token to use with
AssumeRoleWithWebIdentity. Access
 tokens\n          are valid for one hour.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenRequest": {
        "type": "structure",
        "members": {
            "Token": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>",
                    "smithy.api#required": {}
                }
            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Token properties to validate against those present in the JWT
token.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenResponse":
 {
        "type": "structure",
        "members": {
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        "AccessToken": {
            "target": "com.amazonaws.licensemanager#TokenString",
            "traits": {
                "smithy.api#documentation": "<p>Temporary access token.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#GetGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"

    },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
```

```
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
        "Grant": {
            "target": "com.amazonaws.licensemanager#Grant",
            "traits": {
                "smithy.api#documentation": "<p>Grant details.</p>"
            }
        }
    },
    "traits": {

"smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#GetLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
```

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"

},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license configuration. "

```
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits":
 {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurationId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Unique ID for the license configuration.</p>"
                }
            },
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
                }
            },
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the license configuration.</p>"
                 }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Description of the license configuration.</p>"
                }
            },
            "LicenseCountingType": {
                "target": "com.amazonaws.licensemanager#LicenseCountingType",
```

```
            "traits": {
                "smithy.api#documentation": "<p>Dimension for which the licenses are counted.</p>"
            }
        },
        "LicenseRules": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>License rules.</p>"
            }
        },
        "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",

           "traits": {
                "smithy.api#documentation": "<p>Number of available licenses.</p>"
            }
        },
        "LicenseCountHardLimit": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Sets the number of available licenses as a hard limit.</p>"
            }
        },
        "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses assigned to resources.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License configuration status.</p>"
            }

    },
        "OwnerAccountId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Account ID of the owner of the license configuration.</p>"
            }
        },
        "ConsumedLicenseSummaryList": {
            "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
            "traits": {
                "smithy.api#documentation": "<p>Summaries of the licenses consumed by resources.</p>"
            }
        },
```

"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the managed resources. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags for the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When
true, disassociates a resource when software is uninstalled. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTask": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets information about the specified license type conversion task. "
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task to retrieve information on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the resources the license conversion task is associated with. "

```
            }
        },
        "SourceLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
                "smithy.api#documentation": "<p>Information
about the license type converted from.</p>"
            }
        },
        "DestinationLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
                "smithy.api#documentation": "<p>Information about the license type converted to.</p>"
            }
        },
        "StatusMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
            "traits": {
                "smithy.api#documentation": "<p>Status of the license type conversion task.</p>"
            }
        },

  "StartTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Time at which the license type conversion task was started .</p>"
            }
        },
        "LicenseConversionTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Amount of time to complete the license type conversion.</p>"
            }
        },
        "EndTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Time at which the license type conversion task was
completed.</p>"
            }
        }
    },
```

"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGenerator":
{
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets information about the specified report generator. "
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. ",
"smithy.api#required":
{}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"ReportGenerator": {
"target": "com.amazonaws.licensemanager#ReportGenerator",
"traits": {
"smithy.api#documentation": " A report generator that creates periodic reports about your license configurations. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
},
"traits": {
"smithy.api#input": {}
}

```
    },
    "com.amazonaws.licensemanager#GetLicenseResponse": {
        "type": "structure",
        "members": {
            "License": {
                "target": "com.amazonaws.licensemanager#License",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },

"com.amazonaws.licensemanager#GetLicenseUsage": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {

"target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the usage of the specified license.</p>"
        }
```

```
    },
    "com.amazonaws.licensemanager#GetLicenseUsageRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#GetLicenseUsageResponse": {
      "type": "structure",
      "members": {
        "LicenseUsage": {
          "target":
"com.amazonaws.licensemanager#LicenseUsage",
          "traits": {
            "smithy.api#documentation": "<p>License usage details.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#GetServiceSettings": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets the License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsRequest": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Regional S3 bucket path for storing reports, license trail event data,
discovery data,\n        and so on.</p>"

  }
            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>SNS topic configured to receive notifications from License
Manager.</p>"
                }
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether Organizations is integrated with License
Manager for\n        cross-account discovery.</p>"
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether cross-account discovery is enabled.</p>"
                }
```

```
        },
            "LicenseManagerResourceShareArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource share. The License
Manager management account \n        provides member accounts with access to this share.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#Grant": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {

 "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ParentArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Parent ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>License ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "GranteePrincipalArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
```

"smithy.api#documentation": " The grantee principal ARN. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"GrantStatus": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. ",
"smithy.api#required": {}
}
},
"GrantedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Granted operations. ",
"smithy.api#required": {}
}
},
"Options": {
"target": "com.amazonaws.licensemanager#Options",
"traits": {
"smithy.api#documentation": " The options specified for the grant. "
}
}
},
"traits": {
"smithy.api#documentation":

" Describes a grant. "
}
},
"com.amazonaws.licensemanager#GrantList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Grant"
}
},
"com.amazonaws.licensemanager#GrantStatus": {
"type": "enum",
"members": {
"PENDING_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_WORKFLOW"
}
},
"PENDING_ACCEPT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_ACCEPT"
}
},
"REJECTED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "REJECTED"

}
},
"ACTIVE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ACTIVE"
}
},
"FAILED_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "FAILED_WORKFLOW"
}
},
"DELETED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DELETED"
}

```
            },
            "PENDING_DELETE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_DELETE"
                }
            },
            "DISABLED": {
                "target": "smithy.api#Unit",
                "traits":
{
                    "smithy.api#enumValue": "DISABLED"
                }
            },
            "WORKFLOW_COMPLETED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "WORKFLOW_COMPLETED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GrantedLicense": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "LicenseName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License name.</p>"
                }

  },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product name.</p>"
                }
            },
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product SKU.</p>"
```

```
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
                "smithy.api#documentation": "<p>Granted license issuer.</p>"
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region of the granted license.</p>"

         }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>Granted license status.</p>"
            }
        },
        "Validity": {
            "target": "com.amazonaws.licensemanager#DatetimeRange",
            "traits": {
                "smithy.api#documentation": "<p>Date and time range during which the granted license is valid, in
ISO8601-UTC format.</p>"
            }
        },
        "Beneficiary": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Granted license beneficiary.</p>"
            }
        },
        "Entitlements": {
            "target": "com.amazonaws.licensemanager#EntitlementList",
             "traits": {
                "smithy.api#documentation": "<p>License entitlements.</p>"
            }
        },
        "ConsumptionConfiguration": {
            "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
            }
        },
        "LicenseMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
```

```
            "traits": {
                "smithy.api#documentation": "<p>Granted license metadata.</p>"
            }
        },
        "CreateTime": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Creation time of the granted license.</p>"

  }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Version of the granted license.</p>"
            }
        },
        "ReceivedMetadata": {
            "target": "com.amazonaws.licensemanager#ReceivedMetadata",
            "traits": {
                "smithy.api#documentation": "<p>Granted license received metadata.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes a license that is granted to a grantee.</p>"
    }
},
"com.amazonaws.licensemanager#GrantedLicenseList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#GrantedLicense"
    }
},
"com.amazonaws.licensemanager#ISO8601DateTime":
{
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 50
        },
        "smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-
1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[ 0-3]|[0-1][0-9]):[0-5][0-9])+$"
    }
},
"com.amazonaws.licensemanager#Integer": {
    "type": "integer"
```

```
    },
    "com.amazonaws.licensemanager#InvalidParameterValueException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidParameterValueProvided",
                "httpResponseCode": 400
            },
            "smithy.api#documentation":
 "<p>One or more parameter values are not valid.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#InvalidResourceStateException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidResourceState",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>License Manager cannot allocate a license to a resource because of its
state. </p>\n        <p>For example, you cannot allocate a license to an instance in the process of shutting\n
down.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },

    "com.amazonaws.licensemanager#InventoryFilter": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the filter.</p>",
                    "smithy.api#required": {}
                }
```

```
        },
        "Condition": {
            "target": "com.amazonaws.licensemanager#InventoryFilterCondition",
            "traits": {
                "smithy.api#documentation": "<p>Condition of the filter.</p>",
                "smithy.api#required": {}
            }
        },
        "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Value of the filter.</p>"
            }
        }

    },
    "traits": {
        "smithy.api#documentation": "<p>An inventory filter.</p>"
    }
  },
  "com.amazonaws.licensemanager#InventoryFilterCondition": {
    "type": "enum",
    "members": {
        "EQUALS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EQUALS"
            }
        },
        "NOT_EQUALS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "NOT_EQUALS"
            }
        },
        "BEGINS_WITH": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "BEGINS_WITH"
            }
        },
        "CONTAINS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "CONTAINS"
            }
        }
    }
```

```
    },
    "com.amazonaws.licensemanager#InventoryFilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#InventoryFilter"
        }
    },
    "com.amazonaws.licensemanager#Issuer": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Issuer name.</p>",
                    "smithy.api#required": {}
                }
            },
            "SignKey": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage
 of sign and verify, \n        and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about the issuer of a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#IssuerDetails": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Issuer name.</p>"
                }
            },
            "SignKey": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n        and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
                }
            },
            "KeyFingerprint": {
```

```
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Issuer key fingerprint.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details associated with the issuer of a license.</p>"
    }
},
"com.amazonaws.licensemanager#License": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
        },
        "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {

       "smithy.api#documentation": "<p>License name.</p>"
            }
        },
        "ProductName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product name.</p>"
            }
        },
        "ProductSKU": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product SKU.</p>"
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
                "smithy.api#documentation": "<p>License issuer.</p>"
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

"smithy.api#documentation": " Home Region of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"Entitlements": {

"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " License metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " License creation time. "
}
},

```
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Software license that is managed in License Manager.</p>"
    }
},
"com.amazonaws.licensemanager#LicenseConfiguration": {
    "type": "structure",
    "members": {
        "LicenseConfigurationId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Unique ID of the license configuration.</p>"
            }
        },
        "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
            }
        },
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Name of the license configuration.</p>"
            }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Description of the license configuration.</p>"
            }
        },
        "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
            "traits": {
                "smithy.api#documentation": "<p>Dimension to use to track the license inventory.</p>"
             }
        },
        "LicenseRules": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>License rules.</p>"
```

```
            }
        },
        "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
            }
        },
        "LicenseCountHardLimit": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Number of available licenses as a hard limit.</p>"
            }
        },
        "DisassociateWhenNotFound": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
             "traits": {
                "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
            }
        },
        "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses consumed. </p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Status of the license configuration.</p>"
            }
        },
        "OwnerAccountId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Account ID of the license configuration's owner.</p>"

        }
        },
        "ConsumedLicenseSummaryList": {
            "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
            "traits": {
                "smithy.api#documentation": "<p>Summaries for licenses consumed by various resources.</p>"
            }
        },
        "ManagedResourceSummaryList": {
            "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
```

"traits": {
"smithy.api#documentation": " Summaries for managed resources. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {

"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
}
},
"traits": {
"smithy.api#documentation": " A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
"type": "structure",
"members": {
"ResourceArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of server resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource consuming licenses. "
}

```
            },
            "AssociationTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {

    "smithy.api#documentation": "<p>Time when the license configuration was associated with the resource.</p>"
                }
            },
            "AmiAssociationScope": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-
account</code>.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes an association with a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationStatus": {
        "type": "enum",
        "members":
{
            "AVAILABLE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "AVAILABLE"
                }
            },
            "DISABLED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DISABLED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationUsage": {
        "type": "structure",
        "members": {
            "ResourceArn": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits":
{
"smithy.api#documentation": " Type of resource. "
}
},
"ResourceStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the account that owns the resource. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was initially associated with the resource. "
}
},

"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about the usage of a resource associated with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"

```
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurations": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfiguration"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionContext": {

  "type": "structure",
        "members": {
            "UsageOperation": {
                "target": "com.amazonaws.licensemanager#UsageOperation",
                "traits": {
                    "smithy.api#documentation": "<p>The Usage operation value that corresponds to the license type you
are converting your resource from.  For more information about which platforms correspond to which usage
operation values see <a href=\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-info-
fields.html#billing-info\">Sample data: usage operation by platform\n      </a>\n         </p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTask": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {

     "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the license type conversion task.</p>"
                }
            },
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the resource associated
with the license type\n         conversion task.</p>"
                }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license type this conversion task converted
from.</p>"
```

```
            }
        },
        "DestinationLicenseContext": {
            "target":
 "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
                "smithy.api#documentation": "<p>Information about the license type this conversion task converted
to.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
            "traits": {
                "smithy.api#documentation": "<p>The status of the conversion task.</p>"
            }
        },
        "StatusMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
            }
        },
        "StartTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation":
 "<p>The time the conversion task was started at.</p>"
            }
        },
        "LicenseConversionTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>The time the usage operation value of the resource was
changed.</p>"
            }
        },
        "EndTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>The time the conversion task was completed.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
    }
},
"com.amazonaws.licensemanager#LicenseConversionTaskId": {
```

```
        "type": "string",
        "traits": {

       "smithy.api#length": {
            "min": 0,
            "max": 50
          },
          "smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
        }
      },
      "com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
        "type": "enum",
        "members": {
          "IN_PROGRESS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "IN_PROGRESS"
            }
          },
          "SUCCEEDED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "SUCCEEDED"
            }
          },
          "FAILED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "FAILED"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#LicenseConversionTasks":
  {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#LicenseConversionTask"
        }
      },
      "com.amazonaws.licensemanager#LicenseCountingType": {
        "type": "enum",
        "members": {
          "VCPU": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "vCPU"
            }
```

```
        },
        "INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Instance"
            }
        },
        "CORE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Core"
            }
        },
        "SOCKET": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "Socket"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseDeletionStatus": {
    "type": "enum",
    "members": {
        "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#License"
    }
},
"com.amazonaws.licensemanager#LicenseOperationFailure": {

    "type": "structure",
    "members": {
```

"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Resource type. "
}
},
"ErrorMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Error message. "
}
},
"FailureTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {

"smithy.api#documentation": " Failure time. "
}
},
"OperationName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the operation. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource. "
}
},
"OperationRequestedBy": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The requester is \"License Manager Automated Discovery\". "
}
},
"MetadataList": {

"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {

"smithy.api#documentation": " Reserved. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the failure of a license operation. "
}
},
"com.amazonaws.licensemanager#LicenseOperationFailureList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseOperationFailure"
}
},
"com.amazonaws.licensemanager#LicenseSpecification": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",

"smithy.api#required": {}
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Details for associating a license configuration with a resource. "
}
},
"com.amazonaws.licensemanager#LicenseSpecifications": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseSpecification"
}
},
"com.amazonaws.licensemanager#LicenseStatus": {
"type": "enum",
"members": {
"AVAILABLE": {

"target": "smithy.api#Unit",

"traits": {
"smithy.api#enumValue": "AVAILABLE"
}
},
"PENDING_AVAILABLE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_AVAILABLE"
}
},
"DEACTIVATED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DEACTIVATED"
}
},
"SUSPENDED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "SUSPENDED"
}
},
"EXPIRED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "EXPIRED"
}
},

"PENDING_DELETE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_DELETE"
}
},
"DELETED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DELETED"
}
}
}
},
"com.amazonaws.licensemanager#LicenseUsage": {
"type": "structure",
"members": {

"EntitlementUsages": {
"target": "com.amazonaws.licensemanager#EntitlementUsageList",
"traits": {
"smithy.api#documentation": " License entitlement usages. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the entitlement usage associated with a license. "

}
},
"com.amazonaws.licensemanager#LicenseUsageException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "LicenseUsageFailure",
"httpResponseCode": 412
},
"smithy.api#documentation": " You do not have enough licenses available to support a new resource launch. ",
"smithy.api#error": "client",
"smithy.api#httpError": 412
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"

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            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the resource associations for the
 specified license configuration.</p>\n        <p>Resource associations need not consume licenses from a license
configuration. \n        For example, an AMI or a stopped instance might not consume a license (depending on \n
the license rules).</p>"
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results
 to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
        "type": "structure",
```

"members": {
"LicenseConfigurationAssociations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
"traits": {
"smithy.api#documentation": " Information about the associations for the license configuration. "
}
},
"NextToken": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the grants distributed for the specified license. "
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
"type": "structure",
"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranteePrincipalARN</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
"type": "structure",

"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",

"traits": {
"smithy.api#documentation": " Distributed grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license configuration operations that failed. "
}

```
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
      "type": "structure",
      "members": {
        "LicenseConfigurationArn": {
          "target": "com.amazonaws.licensemanager#String",
           "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name of the license configuration.</p>",
            "smithy.api#required": {}
          }
        },
        "MaxResults": {
          "target": "com.amazonaws.licensemanager#BoxInteger",
          "traits": {
            "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse":
{
      "type": "structure",
      "members": {
        "LicenseOperationFailureList": {
          "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
          "traits": {
            "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
```

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    },
    "com.amazonaws.licensemanager#ListLicenseConfigurations": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
        },

    "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configurations
 for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
configurations.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
```

"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next
set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical
operators\n are supported: \n \n \n \n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n
\n <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license
enforcement is used. \n Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>. \n
\n \n \n <code>usagelimitExceeded</code> - A Boolean value that
indicates whether the available licenses have been exceeded. \n Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
"type": "structure",
"members": {
"LicenseConfigurations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurations",
"traits": {
"smithy.api#documentation": " Information about the license configurations. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},

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    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseConversionTasks": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
    "type": "structure",
    "members": {
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {

"smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
```

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            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>\n        Filters to scope the results. Valid filters are
<code>ResourceArns</code> and <code>Status</code>.\n      </p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTasks": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTasks",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configuration tasks for your
 account.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target":
```

"com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the report generators for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest":
{
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported:
\n \n \n \n <code>LicenseConfigurationArn</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits":
{
"smithy.api#documentation": " Maximum number of results to return in a single call. "

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            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
        "type": "structure",
        "members": {
          "ReportGenerators": {
            "target": "com.amazonaws.licensemanager#ReportGeneratorList",
            "traits": {
              "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }

        }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
```

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Describes the license configurations for the specified resource. "
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a resource that has an associated license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
"type": "structure",
"members": {
"LicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " License configurations associated with a resource. "
}
},

```
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists all versions of the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
```

```
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
        "type": "structure",
        "members": {
          "Licenses": {
            "target": "com.amazonaws.licensemanager#LicenseList",
            "traits": {
              "smithy.api#documentation": "<p>License details.</p>"
            }
          },

"NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenses": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicensesRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicensesResponse"
        },
```

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the licenses for your account. "
}
},
"com.amazonaws.licensemanager#ListLicensesRequest": {
"type": "structure",
"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},

"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>Beneficiary</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>Status</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token

for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicensesResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#LicenseList",
"traits": {
"smithy.api#documentation": " License details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists grants that are received. Received grants are grants created while specifying the\n recipient as this Amazon Web Services account, your organization, or an organizational unit\n (OU) to which this member account belongs. "
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganization": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},

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            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target":
 "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the grants received for all accounts in the organization.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the received license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n
    <ul>\n        <li>\n            <p>\n                <code>ParentArn</code>\n            </p>\n        </li>\n
<li>\n            <p>\n                <code>GranteePrincipalArn</code>\n            </p>\n        </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
```

"com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Lists the grants the organization has received. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
"type": "structure",
"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranterAccountId</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},

```
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
    "type": "structure",
    "members": {
        "Grants": {
            "target": "com.amazonaws.licensemanager#GrantList",
             "traits": {
                "smithy.api#documentation": "<p>Received grant details.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
         },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists received licenses.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {

    "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
```

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the licenses received for all accounts in the organization. "
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest": {
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>Beneficiary</code>\n \n \n \n \n <code>ProductSKU</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#GrantedLicenseList",
"traits": {
"smithy.api#documentation": " Lists the licenses the organization has received. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
"type": "structure",
"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},

"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>IssuerName</code>\n \n \n \n \n <code>Beneficiary</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
"type": "structure",

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    "members": {
      "Licenses": {
        "target": "com.amazonaws.licensemanager#GrantedLicenseList",
        "traits": {
          "smithy.api#documentation": "<p>Received license details.</p>"
        }
      },

      "NextToken": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Token for the next set of results.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#ListResourceInventory": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#FailedDependencyException"
      },
      {
        "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
```

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListResourceInventoryRequest": {
        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                 "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#InventoryFilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>account_id</code>
- The ID of the Amazon Web Services account that owns the resource.\n                Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n
            </li>\n            <li>\n                <p>\n                    <code>application_name</code> - The name of the
application. \n                Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n
    </li>\n            <li>\n                <p>\n                    <code>license_included</code> - The type of license included. \n
            Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n                Possible values
are <code>sql-server-enterprise</code> | \n                <code>sql-server-standard</code> | \n                <code>sql-
server-web</code> |  \n                <code>windows-server-datacenter</code>.</p>\n            </li>\n            <li>\n
    <p>\n                    <code>platform</code> - The platform of the resource.\n                Logical operators are
<code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n            </li>\n            <li>\n                <p>\n
        <code>resource_id</code> - The ID of the resource. \n                Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n
      <code>tag:<key></code> - The key/value combination of a tag assigned \n                to the resource. Logical
operators are <code>EQUALS</code> (single account) or\n                <code>EQUALS</code> |
<code>NOT_EQUALS</code> (cross account).</p>\n            </li>\n        </ul>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
```

```
    "com.amazonaws.licensemanager#ListResourceInventoryResponse": {
      "type": "structure",
      "members": {
        "ResourceInventoryList": {
          "target": "com.amazonaws.licensemanager#ResourceInventoryList",
          "traits": {
            "smithy.api#documentation": "<p>Information
about the resources.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#ListTagsForResource": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
         },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Lists the tags for the specified license configuration.</p>"
```

```
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",

    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceResponse": {
        "type": "structure",
        "members": {
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the tags.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListTokens": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTokensRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTokensResponse"
        },
        "errors":
[
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists your tokens.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTokensRequest": {
        "type": "structure",
        "members": {
            "TokenIds": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {

                  "smithy.api#documentation": "<p>Token IDs.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filter is supported:</p>\n
    <ul>\n            <li>\n                <p>\n                <code>LicenseArns</code>\n                </p>\n            </li>\n
</ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation":
 "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
```

```
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListTokensResponse": {
        "type": "structure",
        "members": {
            "Tokens": {
                "target": "com.amazonaws.licensemanager#TokenList",
                "traits": {
                    "smithy.api#documentation": "<p>Received token details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying license\n consumption details by resource at a selected point in time. Use this action to audit the\n current license consumption for any license inventory and configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n are supported:</p>\n <ul>\n <li>\n <p>\n <code>resourceArn</code> - The ARN of the license configuration resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n </li>\n <li>\n <p>\n <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n </li>\n <li>\n <p>\n <code>resourceAccount</code> - The ID of the account that owns the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n </li>\n </ul>"
                }
            }
```

```
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
        "type": "structure",
        "members": {

"LicenseConfigurationUsageList": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#Location": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#Long": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#ManagedResourceSummary": {
        "type": "structure",
        "members": {
            "ResourceType":
{
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
                }
            },
            "AssociationCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
                }
            }
```

```
    },
    "traits": {
        "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
    }
},
"com.amazonaws.licensemanager#MaxSize100": {

"type": "integer",
    "traits": {
        "smithy.api#range": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#String"
    },
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 3
        }
    }
},
"com.amazonaws.licensemanager#Message": {
    "type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The key name.</p>"
            }
        },

"Value": {
            "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " The value. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes key/value pairs. "
}
},
"com.amazonaws.licensemanager#MetadataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Metadata"
}
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " There are no entitlements found for this license, or the entitlement maximum count is reached. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#Options": {
"type": "structure",
"members": {
"ActivationOverrideBehavior": {
"target": "com.amazonaws.licensemanager#ActivationOverrideBehavior",
"traits": {
"smithy.api#documentation": " An activation option for your grant that determines the behavior of activating a grant.\n Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the\n <code>Status</code> parameter. \n \n \n As a license administrator, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when activating a grant. \n \n \n As a grantor, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee\n account in your organization. \n \n \n As a grantee, if the grantor creating the distributed grant doesnt specify an\n <code>ActivationOverrideBehavior</code>, you can optionally specify one when you\n are activating the grant. \n \n \n <dl>\n <dt>DISTRIBUTED_GRANTS_ONLY</dt>\n <dd>\n Use this value to activate a grant without replacing any member accounts\n active grants for the same product. \n </dd>\n <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt>\n <dd>\n Use this value to activate a

grant and disable other active grants in any\n member accounts
for the same product. This action will also replace their\n previously activated grants with this activated grant. \n </dd>\n </dl>"
}
}
},
"traits": {
"smithy.api#documentation": " The options you can specify when you create a new version of a grant, such as activation\n override behavior. For more information, see Granted licenses in License Manager in the License Manager User Guide. "
}
},
"com.amazonaws.licensemanager#OrganizationConfiguration": {
"type": "structure",
"members": {
"EnableIntegration": {
"target": "com.amazonaws.licensemanager#Boolean",
"traits": {
"smithy.api#default": false,
"smithy.api#documentation": " Enables Organizations integration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Configuration information for Organizations. "
}
},
"com.amazonaws.licensemanager#PrincipalArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 1
}
}
},
"com.amazonaws.licensemanager#ProductInformation": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterList": {
"target": "com.amazonaws.licensemanager#ProductInformationFilterList",
"traits": {
"smithy.api#documentation": " A Product information filter consists of a <code>ProductInformationFilterComparator</code> which is a logical operator, a <code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. \n Accepted values for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. \n The following filters and are supported when the resource type \n is <code>SSM_MANAGED</code>: \n \n \n \n <code>Application Name</code> - The name of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Publisher</code> - The publisher of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Version</code> - The version of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Type</code> - The platform type.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n \n \n \n \n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n \n \n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n Possible values are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n The following filters and logical operators are supported when the resource type\n is <code>RDS</code>: \n \n \n \n <code>Engine Edition</code> - The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>. \n \n \n \n <code>License Pack</code> - The license pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n <code>diagnostic pack sqlt</code> | \n <code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n \n ",
"smithy.api#required": {}
}
}
},

```
    "traits": {
        "smithy.api#documentation": "<p>Describes product information for a license configuration.</p>"
    }
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
    "type": "structure",
    "members": {
        "ProductInformationFilterName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Filter name.</p>",
                "smithy.api#required": {}
            }
        },
        "ProductInformationFilterValue": {
            "target": "com.amazonaws.licensemanager#StringList",

      "traits": {
                "smithy.api#documentation": "<p>Filter value.</p>"
            }
        },
        "ProductInformationFilterComparator": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Logical operator.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes product information filters.</p>"
    }
},
"com.amazonaws.licensemanager#ProductInformationFilterList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformationFilter"
    }
},
"com.amazonaws.licensemanager#ProductInformationList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformation"
     }
},
"com.amazonaws.licensemanager#ProvisionalConfiguration": {
    "type": "structure",
    "members": {
```

"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the provisional configuration, in minutes. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details about a provisional configuration. "
}
},
"com.amazonaws.licensemanager#RateLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "RateLimitExceeded",
"httpResponseCode": 429
},
"smithy.api#documentation": " Too many requests have been submitted. Try again after a brief wait. ",
"smithy.api#error": "client",
"smithy.api#httpError": 429
}
},
"com.amazonaws.licensemanager#ReceivedMetadata": {
"type": "structure",
"members": {
"ReceivedStatus": {
"target": "com.amazonaws.licensemanager#ReceivedStatus",
"traits": {
"smithy.api#documentation": " Received status. "
}
},
"ReceivedStatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Received status reason. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",

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            "traits": {
                "smithy.api#documentation": "<p>Allowed operations.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Metadata associated with received licenses and grants.</p>"
    }
},
"com.amazonaws.licensemanager#ReceivedStatus": {
    "type": "enum",
    "members": {
        "PENDING_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_WORKFLOW"
            }
        },
        "PENDING_ACCEPT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue":
"PENDING_ACCEPT"
            }
        },
        "REJECTED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "REJECTED"
            }
        },
        "ACTIVE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "ACTIVE"
            }
        },
        "FAILED_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "FAILED_WORKFLOW"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
```

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        },
        "DISABLED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DISABLED"
            }
        },
        "WORKFLOW_COMPLETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "WORKFLOW_COMPLETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#RedirectException": {
    "type": "structure",
    "members": {
        "Location": {
            "target": "com.amazonaws.licensemanager#Location",
            "traits": {
                "smithy.api#httpHeader": "Location"
            }
        },
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 308
    }
},
"com.amazonaws.licensemanager#RejectGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#RejectGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#RejectGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target":
"com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#RejectGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}

  }
    },
    "com.amazonaws.licensemanager#RejectGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
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"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#RenewType":
{
"type": "enum",
"members": {
"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"WEEKLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Weekly"
}
},
"MONTHLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Monthly"
}
}
}
},
"com.amazonaws.licensemanager#ReportContext": {
"type": "structure",
"members": {
"licenseConfigurationArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration that this generator reports on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details of the license configuration that this generator reports on. "
}
},
"com.amazonaws.licensemanager#ReportFrequency": {
"type": "structure",
"members": {
"value": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Number of times within the frequency period that a report is generated. \n The only supported value is <code>1</code>. "
}
},
"period": {
"target": "com.amazonaws.licensemanager#ReportFrequencyType",

"traits": {
"smithy.api#documentation": " Time period between each report. The period can be daily, weekly, or monthly. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"com.amazonaws.licensemanager#ReportFrequencyType": {
"type": "enum",
"members": {
"DAY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DAY"
}
},
"WEEK": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "WEEK"
}
},

"MONTH": {
"target": "smithy.api#Unit",
"traits":
{
"smithy.api#enumValue": "MONTH"
}
}
}
},
"com.amazonaws.licensemanager#ReportGenerator": {
"type": "structure",
"members": {
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the report generator. "
}
},
"ReportType": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports that are generated. "
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " License
configuration type for this generator. "
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. "
}
},
"LastRunStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the last report generation attempt. "
}

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            },
            "LastRunFailureReason":
 {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Failure message for the last report generation attempt.</p>"
                }
            },
            "LastReportGenerationTime": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Time the last report was generated at.</p>"
                }
            },
            "ReportCreatorAccount": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Web Services account ID used to create the report
generator.</p>"
                }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",

        "traits": {
                    "smithy.api#documentation": "<p>Description of the report generator.</p>"
                }
            },
            "S3Location": {
                "target": "com.amazonaws.licensemanager#S3Location",
                "traits": {
                    "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
                }
            },
            "CreateTime": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Time the report was created.</p>"
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Tags associated with the report generator.</p>"
                }
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}
},
"traits": {
"smithy.api#documentation": " Describe the details of a report generator. "
}
},
"com.amazonaws.licensemanager#ReportGeneratorList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ReportGenerator"
}
},
"com.amazonaws.licensemanager#ReportGeneratorName": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 100
}
}
},
"com.amazonaws.licensemanager#ReportType": {
"type": "enum",
"members": {
"LICENSE_CONFIGURATION_SUMMARY_REPORT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "LicenseConfigurationSummaryReport"
}

},
"LICENSE_CONFIGURATION_USAGE_REPORT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "LicenseConfigurationUsageReport"
}
}
}
},
"com.amazonaws.licensemanager#ReportTypeList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ReportType"
}
},
"com.amazonaws.licensemanager#ResourceInventory": {
"type": "structure",
"members": {

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            "ResourceId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits":
{
                    "smithy.api#documentation": "<p>Type of resource.</p>"
                }
            },
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "Platform": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Platform of the resource.</p>"
                }
            },
            "PlatformVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Platform version of the resource in the inventory.</p>"
                }
            },
            "ResourceOwningAccountId":
{
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#ResourceInventoryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ResourceInventory"
        }
```

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},
"com.amazonaws.licensemanager#ResourceLimitExceededException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "ResourceLimitExceeded",

         "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>Your resource limits have been exceeded.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceNotFoundException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "InvalidResource.NotFound",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The resource cannot be found.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceType": {
    "type": "enum",
     "members": {
        "EC2_INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_INSTANCE"
            }
        },
        "EC2_HOST": {
            "target": "smithy.api#Unit",
            "traits": {
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"smithy.api#enumValue": "EC2_HOST"
}
},
"EC2_AMI": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "EC2_AMI"
}
},
"RDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "RDS"
}
},
"SYSTEMS_MANAGER_MANAGED_INSTANCE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
}
}
}
},
"com.amazonaws.licensemanager#S3Location": {
"type": "structure",
"members": {
"bucket": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the S3 bucket reports are published to. "
}
},
"keyPrefix": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Prefix of the S3 bucket reports are published to. "
}
}
},
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"com.amazonaws.licensemanager#ServerInternalException": {
"type": "structure",
"members": {
"Message": {

"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InternalError",
"httpResponseCode": 500
},
"smithy.api#documentation": " The server experienced an internal error. Try again. ",
"smithy.api#error": "server",
"smithy.api#httpError": 500
}
},
"com.amazonaws.licensemanager#SignedToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 4096
}
}
},
"com.amazonaws.licensemanager#StatusReasonMessage": {
"type": "string",
"traits":
{
"smithy.api#length": {
"min": 0,
"max": 400
},
"smithy.api#pattern": "^[\\s\\S]+$"
}
},
"com.amazonaws.licensemanager#String": {
"type": "string"
},
"com.amazonaws.licensemanager#StringList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#String"
}
},
"com.amazonaws.licensemanager#Tag": {
"type": "structure",
"members": {
"Key": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Tag key. "

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            }
          },
          "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation":
"<p>Tag value.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
      },
      "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#String"
        }
      },
      "com.amazonaws.licensemanager#TagList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#Tag"
        }
      },
      "com.amazonaws.licensemanager#TagResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#TagResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#TagResourceResponse"
        },
        "errors": [
          {
            "target":
"com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
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            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits":
 {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>One or more tags.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#TagResourceResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#TokenData": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
```

"TokenType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Type of token generated. The supported value is <code>REFRESH_TOKEN</code>. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"ExpirationTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Token expiration time, in ISO8601-UTC format. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller. "
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the roles included in the token. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token status. The possible values are <code>AVAILABLE</code> and <code>DELETED</code>. "
}
}
},
"traits": {

"smithy.api#documentation": " Describes a token. "
}
},
"com.amazonaws.licensemanager#TokenList": {
"type": "list",

"member": {
"target": "com.amazonaws.licensemanager#TokenData"
}
},
"com.amazonaws.licensemanager#TokenString": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 4096
},
"smithy.api#pattern": "^\\S+$"
}
},
"com.amazonaws.licensemanager#TokenType": {
"type": "enum",
"members": {
"REFRESH_TOKEN": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "REFRESH_TOKEN"
}
}
}
},
"com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException":
{
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The digital signature method is unsupported. Try your request
again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#UntagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UntagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UntagResourceResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Removes the specified tags from the specified license configuration. "
}
},
"com.amazonaws.licensemanager#UntagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"TagKeys": {
"target": "com.amazonaws.licensemanager#TagKeyList",
"traits": {
"smithy.api#documentation": " Keys identifying the tags to remove. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UntagResourceResponse": {
"type": "structure",
"members": {},

"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Modifies the attributes of an existing license configuration. "
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},

"LicenseConfigurationStatus": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
"traits": {
"smithy.api#documentation": " New status of the license configuration. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {

"smithy.api#documentation": " New license rule. The only rule that you can add after you create a license\n configuration is licenseAffinityToHost. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " New number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " New hard limit of the number of available licenses. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New description of the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " New product information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",

"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
}
},
"traits":
{
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},

```
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates a report generator.</p>\n        <p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to update.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportGeneratorName": {
                "target": "com.amazonaws.licensemanager#ReportGeneratorName",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the report generator.</p>",
                    "smithy.api#required": {}
                }
            },
            "Type": {
                "target": "com.amazonaws.licensemanager#ReportTypeList",
                "traits": {
                    "smithy.api#documentation": "<p>Type of reports to generate. The following report types are supported:</p>\n        <ul>\n            <li>\n                <p>License configuration report - Reports the number and details of consumed licenses for a license configuration.</p>\n            </li>\n            <li>\n                <p>Resource report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n            </li>\n        </ul>",
                    "smithy.api#required": {}
                }
            },
            "ReportContext": {
                "target": "com.amazonaws.licensemanager#ReportContext",
                "traits": {
                    "smithy.api#documentation": "<p>The report context.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportFrequency": {
                "target": "com.amazonaws.licensemanager#ReportFrequency",
```

"traits":
{
"smithy.api#documentation": " Frequency by which reports are generated. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse":
{
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

```
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },

            {
                "target": "com.amazonaws.licensemanager#InvalidResourceStateException"
            },
            {
                "target": "com.amazonaws.licensemanager#LicenseUsageException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds or removes the specified license configurations for the specified
Amazon Web Services resource.</p>\n        <p>You can update the license specifications of AMIs, instances, and
hosts.\n        You cannot update the license specifications for launch templates and CloudFormation templates, \n
  as they send license configurations to the operation that creates the resource.</p>"
        }
    },

    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon Web Services
resource.</p>",
                    "smithy.api#required": {}
                }
            },
            "AddLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
                }
            },
            "RemoveLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation":
 "<p>ARNs of the license configurations to remove.</p>"
                }
```

```
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
    "type": "structure",
    "members": {},
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#UpdateServiceSettings": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
         },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Updates License Manager settings for the current Region.</p>"
    }
},
"com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
    "type": "structure",
    "members": {
        "S3BucketArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon S3 bucket where the License
Manager information is stored. "
}
},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {
"smithy.api#documentation": " Enables integration with Organizations for cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Activates cross-account discovery. "

}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UsageOperation": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
}
}
},
"com.amazonaws.licensemanager#ValidationException": {

```
            "type": "structure",
            "members": {
                "Message": {
                    "target": "com.amazonaws.licensemanager#Message"
                }
            },
            "traits": {
                "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",

        "smithy.api#error": "client",
                "smithy.api#httpError": 400
            }
        }
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {
```

```
 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version
 of the license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack,
 options); err != nil {
  return err
```

```
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if
 err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
```

```
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "DeleteLicense",
 }
}
```

1.6087 protobuf-go 1.28.1

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1.6088 go-securesystemslib 0.4.0

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1.6089 ebpf 0.9.1

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1.6090 govultr 2.17.2

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1.6091 participle 2.1.1

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1.6092 proto-otlp 1.3.1

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1.6099 otel-exporters-otlp-otlptrace-otlptracegrpc 1.21.0

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1.6100 generic-list-go 0.2.0

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1.6101 vmihailenco-msgpack 4.0.4+incompatible

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1.6102 x-term 0.5.0

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1.6103 x-xerrors 0.0.0-20220609144429-65e65417b02f

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1.6104 kubernetes-utils 0.0.0-20230209194617-a36077c30491

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1.6105 vsock 1.2.1

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1.6106 contrib-instrumentation-net-http-otelhttp 0.49.0

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1.6107 genproto-googleapis-rpc 0.0.0-20240401170217-c3f982113cda

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1.6108 otel-exporters-otlp-otlptrace 1.28.0

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1.6109 otel-exporters-otlp-otlptrace-otlptracegrpc 1.28.0

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1.6110 filepath-securejoin 0.3.1

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1.6111 go-ordered-map 2.1.8

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metrics from the pseudo-filesystem proc.

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1.6115 go-str2duration 2.1.0

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1.6116 x-exp 0.0.0-20240416160154-fe59bbe5cc7f

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1.6117 x-mod 0.17.0

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1.6118 selinux 1.11.0

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1.6119 otel-sdk 1.28.0

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1.6123 ebpf 0.16.0

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1.6124 x-term 0.25.0

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1.6125 runtime-spec 1.2.0

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1.6126 pkcs11 1.1.1

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1.6127 genproto-googleapis-rpc 0.0.0-20230410155749-daa745c078e1

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1.6130 agext-levenshtein 1.2.2

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1.6131 socket 0.4.1

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* /opt/cola/permits/2308934130_1736190649.2084363/0/jackson-databind-nullable-0-2-6-sources-jar/META-INF/maven/org.openapitools/jackson-databind-nullable/pom.xml

1.6141 @types/http-proxy 1.17.9

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1.6153 classgraph 4.8.165

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```
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* This file is part of ClassGraph.
*
* Author: Sergey Bespalov
*
* Hosted at: https://github.com/classgraph/classgraph
*
* --
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/*
* This file is part of ClassGraph.
*
* Author: Michael J. Simons
*
* Hosted at: https://github.com/classgraph/classgraph
*
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*
* Author: Luke Hutchison
*
* Hosted at: https://github.com/classgraph/classgraph
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* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/fileslice/ArraySlice.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/fileslice/Slice.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/fileslice/PathSlice.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/fileslice/reader/RandomAccessArrayReader.java
*
/opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/fileslice/reader/ClassfileReader.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/fileslice/reader/SequentialReader.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/fileslice/reader/RandomAccessReader.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/fileslice/reader/RandomAccessFileChannelReader.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/fileslice/FileSlice.java
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/*
* This file is part of ClassGraph.
*
* Author: Luke Hutchison (luke.hutch@gmail.com)
*
* Hosted at: https://github.com/classgraph/classgraph
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* Author: Luke Hutchison
*
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* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/io/github/classgraph/Classfile.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/io/github/classgraph/ModuleReaderProxy.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/io/github/classgraph/PackageInfo.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/io/github/classgraph/MethodParameterInfo.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/io/github/classgraph/Resource.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/concurrency/SingletonMap.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/io/github/classgraph/ClassMemberInfo.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/io/github/classgraph/ClassRefOrTypeVariableSignature.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/fastzipfilereader/PhysicalZipFile.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/utils/LogNode.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/io/github/classgraph/TypeParameter.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/json/ClassFieldCache.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/classpath/CallStackReader.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/io/github/classgraph/ClassGraphException.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/io/github/classgraph/ClassInfo.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/io/github/classgraph/AnnotationInfo.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/utils/ProxyingInputStream.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/json/JSONArray.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/io/github/classgraph/ReferenceTypeSignature.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/fastzipfilereader/ZipFileSlice.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/types/ParseException.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-

jar/nonapi/io/github/classgraph/json/JSONParser.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/classloaderhandler/ClassLoaderHandler.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/io/github/classgraph/ScanResultObject.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/io/github/classgraph/ModuleRef.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/utils/FastPathResolver.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/json/JSONDeserializer.java
*
/opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/io/github/classgraph/PackageInfoList.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/utils/VersionFinder.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/classloaderhandler/WeblogicClassLoaderHandler.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/json/Id.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/io/github/classgraph/ClasspathElementDir.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/io/github/classgraph/ClasspathElement.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/recycler/RecycleOnClose.java
*
/opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/classloaderhandler/FallbackClassLoaderHandler.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/classloaderhandler/JPMSClassLoaderHandler.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/classpath/ModuleFinder.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/utils/FileUtils.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/io/github/classgraph/ModuleInfoList.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/fastzipfilereader/NestedJarHandler.java
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*
/opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/io/github/classgraph/ClassInfoList.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/classpath/ClassLoaderFinder.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/io/github/classgraph/Scanner.java

* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/concurrency/InterruptionChecker.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/io/github/classgraph/ObjectTypedValueWrapper.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/classloaderhandler/EquinoxClassLoaderHandler.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/io/github/classgraph/TypeArgument.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/utils/StringUtils.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/json/JSONUtils.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/io/github/classgraph/ArrayClassInfo.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/json/JSONSerializer.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/io/github/classgraph/ArrayTypeSignature.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/concurrency/WorkQueue.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/io/github/classgraph/BaseTypeSignature.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/scanspec/ScanSpec.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/fastzipfilereader/LogicalZipFile.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/io/github/classgraph/ClassGraph.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/io/github/classgraph/ClasspathElementZip.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/io/github/classgraph/MethodInfoList.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/classpath/ClasspathFinder.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/io/github/classgraph/ClassGraphClassLoader.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/classloaderhandler/URLClassLoaderHandler.java
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* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/classloaderhandler/ClassLoaderHandlerRegistry.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/classloaderhandler/EquinoxContextFinderClassLoaderHandler.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-

jar/io/github/classgraph/TypeSignature.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/json/JSONObject.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/io/github/classgraph/FieldInfoList.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/json/JSONReference.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/io/github/classgraph/PotentiallyUnmodifiableList.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/types/Parser.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/io/github/classgraph/AnnotationInfoList.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/classloaderhandler/TomcatWebappClassLoaderBaseHandler.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/classloaderhandler/ClassGraphClassLoaderHandler.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/classloaderhandler/UnoOneJarClassLoaderHandler.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/recycler/Resettable.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/classloaderhandler/PlexusClassWorldsClassRealmClassLoaderHandler.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/classpath/ClassLoaderOrder.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/types/TypeUtils.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/io/github/classgraph/AnnotationParameterValueList.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/io/github/classgraph/GraphvizDotfileGenerator.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/io/github/classgraph/ClassTypeSignature.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/json/ParameterizedTypeImpl.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/scanspec/AcceptReject.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/utils/JarUtils.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/classpath/SystemJarFinder.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/utils/CollectionUtils.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/io/github/classgraph/MethodTypeSignature.java

* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/io/github/classgraph/ModuleInfo.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/classloaderhandler/ParentLastDelegationOrderTestClassLoaderHandler.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/io/github/classgraph/AnnotationParameterValue.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/io/github/classgraph/AnnotationEnumValue.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/classpath/ClasspathOrder.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/fastzipfilereader/FastZipEntry.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/recycler/Recycler.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/io/github/classgraph/HierarchicalTypeSignature.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/io/github/classgraph/ModulePathInfo.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/io/github/classgraph/TypeVariableSignature.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/io/github/classgraph/InfoList.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/utils/URLPathEncoder.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/json/ReferenceEqualityKey.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/io/github/classgraph/HasName.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/io/github/classgraph/ScanResult.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/reflection/ReflectionUtils.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/classloaderhandler/OSGiDefaultClassLoaderHandler.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/json/FieldTypeInfo.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/io/github/classgraph/FieldInfo.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/io/github/classgraph/AnnotationClassRef.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/io/github/classgraph/MethodInfo.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/io/github/classgraph/MappableInfoList.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-

jar/io/github/classgraph/ClasspathElementModule.java
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*
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*
* Author: Johno Crawford (johno@sulake.com)
*
* Hosted at: https://github.com/classgraph/classgraph
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* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/concurrency/AutoCloseableExecutorService.java
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*
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*
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*
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*
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* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/io/github/classgraph/CloseableByteBuffer.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/reflection/NarcissusReflectionDriver.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/reflection/StandardReflectionDriver.java
* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/reflection/ReflectionDriver.java

* /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/classloaderhandler/CxfContainerClassLoaderHandler.java
*
 /opt/cola/permits/2308979152_1736193707.6944435/0/classgraph-4-8-165-sources-2-jar/nonapi/io/github/classgraph/reflection/JVMDriverReflectionDriver.java
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1.6154 genproto-googleapis-rpc 0.0.0-20230525234030-28d5490b6b19

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Request for Comments: 2821 AT&T Laboratories
Obsoletes: 821, 974, 1869 April 2001
Updates: 1123
Category: Standards Track

Simple Mail Transfer Protocol

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Abstract

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- the original SMTP (Simple Mail Transfer Protocol) specification of RFC 821 [30],

- domain name system requirements and implications for mail transport from RFC 1035 [22] and RFC 974 [27],

- the clarifications and applicability statements in RFC 1123 [2], and

- material drawn from the SMTP Extension mechanisms [19].

It obsoletes RFC 821, RFC 974, and updates RFC 1123 (replaces the mail transport materials of RFC 1123). However, RFC 821 specifies some features that were not in significant use in the Internet by the mid-1990s and (in appendices) some additional transport models. Those sections are omitted here in the interest of clarity and brevity; readers needing them should refer to RFC 821.

It also includes some additional material from RFC 1123 that required amplification. This material has been identified in multiple ways,

mostly by tracking flaming on various lists and newsgroups and problems of unusual readings or interpretations that have appeared as the SMTP extensions have been deployed. Where this specification moves beyond consolidation and actually differs from earlier documents, it supersedes them technically as well as textually.

Although SMTP was designed as a mail transport and delivery protocol, this specification also contains information that is important to its use as a 'mail submission' protocol, as recommended for POP [3, 26] and IMAP [6]. Additional submission issues are discussed in RFC 2476 [15].

Section 2.3 provides definitions of terms specific to this document. Except when the historical terminology is necessary for clarity, this document uses the current 'client' and 'server' terminology to identify the sending and receiving SMTP processes, respectively.

A companion document [32] discusses message headers, message bodies and formats
and structures for them, and their relationship.

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1. Introduction

The objective of the Simple Mail Transfer Protocol (SMTP) is to transfer mail reliably and efficiently.

SMTP is independent of the particular transmission subsystem and requires only a reliable ordered data stream channel. While this document specifically discusses transport over TCP, other transports are possible. Appendices to RFC 821 describe some of them.

An important feature of SMTP is its capability to transport mail across networks, usually referred to as "SMTP mail relaying" (see section 3.8). A network consists of the mutually-TCP-accessible hosts on the public Internet, the mutually-TCP-accessible hosts on a firewall-isolated TCP/IP Intranet, or hosts in some other LAN or WAN environment utilizing a non-TCP transport-level protocol. Using

SMTP, a process can transfer mail to another process on the same network or to some other network via a relay or gateway process accessible to both networks.

In this way, a mail message may pass through a number of intermediate relay or gateway hosts on its path from sender to ultimate recipient. The Mail eXchanger mechanisms of the domain name system [22, 27] (and section 5 of this document) are used to identify the appropriate next-hop destination for a message being transported.

2. The SMTP Model

2.1 Basic Structure

The SMTP design can be pictured as:

```
          +----------+              +----------+
+------+   |         |              |         |
| User |<-->|         |     SMTP     |         |
+------+   | Client- |Commands/Replies| Server- |
+------+   |  SMTP   |<--------------->|  SMTP  |   +------+
| File |<-->|         |   and Mail   |         |<-->| File |
|System|   |         |              |         |   |System|
+------+   +----------+              +----------+   +------+
           SMTP client              SMTP server
```

When an SMTP client has a message to transmit, it establishes a two-way transmission channel to an SMTP server. The responsibility of an SMTP client is to transfer mail messages to one or more SMTP servers, or report its failure to do so.

The means by which a mail message is presented to an SMTP client, and how that client determines the domain name(s) to which mail messages are to be transferred is a local matter,

and is not addressed by this
document. In some cases, the domain name(s) transferred to, or
determined by, an SMTP client will identify the final destination(s)
of the mail message. In other cases, common with SMTP clients
associated with implementations of the POP [3, 26] or IMAP [6]
protocols, or when the SMTP client is inside an isolated transport
service environment, the domain name determined will identify an
intermediate destination through which all mail messages are to be
relayed. SMTP clients that transfer all traffic, regardless of the
target domain names associated with the individual messages, or that
do not maintain queues for retrying message transmissions that
initially cannot be completed, may otherwise conform to this
specification but are not considered fully-capable. Fully-capable
SMTP implementations, including the relays used by these less capable

ones, and their destinations, are expected to support all of the
queuing,
retrying, and alternate address functions discussed in this
specification.

The means by which an SMTP client, once it has determined a target
domain name, determines the identity of an SMTP server to which a
copy of a message is to be transferred, and then performs that
transfer, is covered by this document. To effect a mail transfer to
an SMTP server, an SMTP client establishes a two-way transmission
channel to that SMTP server. An SMTP client determines the address
of an appropriate host running an SMTP server by resolving a
destination domain name to either an intermediate Mail eXchanger host
or a final target host.

An SMTP server may be either the ultimate destination or an
intermediate "relay" (that is, it may assume the role of an SMTP
client after receiving the message) or "gateway" (that is, it may
transport the message further using some protocol other than SMTP).
SMTP commands are generated by the SMTP client and sent to
the SMTP
server. SMTP replies are sent from the SMTP server to the SMTP
client in response to the commands.

In other words, message transfer can occur in a single connection
between the original SMTP-sender and the final SMTP-recipient, or can
occur in a series of hops through intermediary systems. In either
case, a formal handoff of responsibility for the message occurs: the
protocol requires that a server accept responsibility for either
delivering a message or properly reporting the failure to do so.

Once the transmission channel is established and initial handshaking
completed, the SMTP client normally initiates a mail transaction.

Such a transaction consists of a series of commands to specify the originator and destination of the mail and transmission of the message content (including any headers or other structure) itself. When the same message is sent to multiple recipients, this protocol encourages the transmission of only one copy of the data for all recipients at the same destination (or intermediate relay) host.

The server responds to each command with a reply; replies may indicate that the command was accepted, that additional commands are expected, or that a temporary or permanent error condition exists. Commands specifying the sender or recipients may include server-permitted SMTP service extension requests as discussed in section 2.2. The dialog is purposely lock-step, one-at-a-time, although this can be modified by mutually-agreed extension requests such as command pipelining [13].

Once a given mail message has been transmitted, the client may either request that the connection be shut down or may initiate other mail transactions. In addition, an SMTP client may use a connection to an SMTP server for ancillary services such as verification of email addresses or retrieval of mailing list subscriber addresses.

As suggested above, this protocol provides mechanisms for the transmission of mail. This transmission normally occurs directly from the sending user's host to the receiving user's host when the two hosts are connected to the same transport service. When they are not connected to the same transport service, transmission occurs via one or more relay SMTP servers. An intermediate host that acts as either an SMTP relay or as a gateway into some other transmission environment is usually selected through the use of the domain name service (DNS) Mail eXchanger mechanism.

Usually, intermediate hosts are determined via the DNS MX record, not by explicit "source" routing (see section 5 and appendices C and F.2).

2.2 The Extension Model

2.2.1 Background

In an effort that started in 1990, approximately a decade after RFC 821 was completed, the protocol was modified with a "service extensions" model that permits the client and server to agree to utilize shared functionality beyond the original SMTP requirements.
The SMTP extension mechanism defines a means whereby an extended SMTP

client and server may recognize each other, and the server can inform the client as to the service extensions that it supports.

Contemporary SMTP implementations MUST support the basic extension mechanisms. For instance, servers MUST support the EHLO command even if they do not implement any specific extensions and clients SHOULD preferentially utilize EHLO rather than HELO. (However, for compatibility with older conforming implementations, SMTP clients and servers MUST support the original HELO mechanisms as a fallback.) Unless the different characteristics of HELO must be identified for interoperability purposes, this document discusses only EHLO.

SMTP is widely deployed and high-quality implementations have proven to be very robust. However, the Internet community now considers some services to be important that were not anticipated when the

protocol was first designed. If support for those services is to be added, it must be done in a way that permits older implementations to continue working acceptably. The extension framework consists of:

- The SMTP command EHLO, superseding the earlier HELO,

- a registry of SMTP service extensions,

- additional parameters to the SMTP MAIL and RCPT commands, and

- optional replacements for commands defined in this protocol, such as for DATA in non-ASCII transmissions [33].

SMTP's strength comes primarily from its simplicity. Experience with many protocols has shown that protocols with few options tend towards ubiquity, whereas protocols with many options tend towards obscurity.

Each and every extension, regardless of its benefits, must be carefully scrutinized with respect to its implementation, deployment, and interoperability costs. In many cases, the cost of extending the SMTP service will likely outweigh the benefit.

2.2.2 Definition and Registration of Extensions

The IANA maintains a registry of SMTP service extensions. A corresponding EHLO keyword value is associated with each extension. Each service extension registered with the IANA must be defined in a formal standards-track or IESG-approved experimental protocol document. The definition must include:

- the textual name of the SMTP service extension;

- the EHLO keyword value associated with the extension;

- the syntax and possible values of parameters associated with the EHLO keyword value;

- any additional SMTP verbs associated with the extension (additional verbs will usually be, but are not required to be, the same as the EHLO keyword value);

- any new parameters the extension associates with the MAIL or RCPT verbs;

- a description of how support for the extension affects the behavior of a server and client SMTP; and,

- the increment by which the extension is increasing the maximum length of the commands MAIL and/or RCPT, over that specified in this standard.

In addition, any EHLO keyword value starting with an upper or lower case "X" refers to a local SMTP service extension used exclusively through bilateral agreement. Keywords beginning with "X" MUST NOT be used in a registered service extension. Conversely, keyword values presented in the EHLO response that do not begin with "X" MUST correspond to a standard, standards-track, or IESG-approved experimental SMTP service extension registered with IANA. A conforming server MUST NOT offer non-"X"-prefixed keyword values that are not described in a registered extension.

Additional verbs and parameter names are bound by the same rules as EHLO keywords; specifically, verbs beginning with "X" are local extensions that may not be registered or standardized. Conversely, verbs not beginning with "X" must always be registered.

2.3 Terminology

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described below.

1. MUST This word, or the terms "REQUIRED" or "SHALL", mean that the definition is an absolute requirement of the specification.

2. MUST NOT This phrase, or the phrase "SHALL NOT", mean that the definition is an absolute prohibition of the specification.

3. SHOULD This word, or the adjective "RECOMMENDED", mean that there may exist valid reasons in particular circumstances to ignore a particular item, but the full implications must be understood and carefully weighed before choosing a different course.

4. SHOULD NOT This phrase, or the phrase "NOT RECOMMENDED" mean that there may exist valid reasons in particular circumstances when the particular behavior is acceptable or even useful, but the full implications should be understood and the case carefully weighed before implementing any behavior described with this label.

5. MAY This word, or the adjective "OPTIONAL", mean that an item is truly optional. One vendor may choose to include the item because a particular marketplace requires it or because the vendor feels that it enhances the product while another vendor may omit the same item. An implementation which does not include a particular option MUST be prepared to interoperate with another implementation which does include the option, though perhaps with reduced functionality. In the same vein an implementation which

does include a particular option MUST be prepared to interoperate with another implementation which does not include the option (except, of course, for the feature the option provides.)

2.3.1 Mail Objects

SMTP transports a mail object. A mail object contains an envelope and content.

The SMTP envelope is sent as a series of SMTP protocol units (described in section 3). It consists of an originator address (to which error reports should be directed); one or more recipient addresses; and optional protocol extension material. Historically, variations on the recipient address specification command (RCPT TO) could be used to specify alternate delivery modes, such as immediate display; those variations have now been deprecated (see appendix F, section F.6).

The SMTP content is sent in the SMTP DATA protocol unit and has two parts: the headers and the body. If the content conforms to other contemporary standards, the headers form a collection of field/value pairs structured as in the message format specification [32]; the body, if structured, is defined according to MIME [12]. The content

is textual in nature, expressed using the US-ASCII repertoire [1]. Although SMTP extensions (such as "8BITMIME" [20]) may relax this restriction for the content body, the content headers are always encoded using the US-ASCII repertoire. A MIME extension [23] defines an algorithm for representing header values outside the US-ASCII repertoire, while still encoding them using the US-ASCII repertoire.

2.3.2 Senders and Receivers

In RFC 821, the two hosts participating in an SMTP transaction were described as the "SMTP-sender" and "SMTP-receiver". This document has been changed to reflect current industry terminology and hence refers to them as the "SMTP client" (or sometimes just "the client") and "SMTP server" (or just "the server"), respectively. Since a given host may act both as server and client in a relay situation, "receiver" and "sender" terminology is still used where needed for clarity.

2.3.3 Mail Agents and Message Stores

Additional mail system terminology became common after RFC 821 was published and, where convenient, is used in this specification. In particular, SMTP servers and clients provide a mail transport service and therefore act as "Mail Transfer Agents" (MTAs). "Mail User Agents" (MUAs or UAs) are normally thought of as the sources and

targets of mail. At the source, an MUA might collect mail to be transmitted from a user and hand it off to an MTA; the final ("delivery") MTA would be thought of as handing the mail off to an MUA (or at least transferring responsibility to it, e.g., by depositing the message in a "message store"). However, while these terms are used with at least the appearance of great precision in other environments, the implied boundaries between MUAs and MTAs often do not accurately match common, and conforming, practices with Internet mail. Hence, the reader should be cautious about inferring the strong relationships and responsibilities that might be implied if these terms were used elsewhere.

2.3.4 Host

For the purposes of this specification, a host is a computer system attached to the Internet (or, in some cases, to a private TCP/IP network) and supporting the SMTP protocol. Hosts are known by names (see "domain"); identifying them by numerical address is discouraged.

2.3.5 Domain

A domain (or domain name) consists of one or more dot-separated components. These components ("labels" in DNS terminology [22]) are restricted for SMTP purposes to consist of a sequence of letters, digits, and hyphens drawn from the ASCII character set [1]. Domain names are used as names of hosts and of other entities in the domain name hierarchy. For example, a domain may refer to an alias (label of a CNAME RR) or the label of Mail eXchanger records to be used to deliver mail instead of representing a host name. See [22] and section 5 of this specification.

The domain name, as described in this document and in [22], is the entire, fully-qualified name (often referred to as an "FQDN"). A domain name that is not in FQDN
form is no more than a local alias.
Local aliases MUST NOT appear in any SMTP transaction.

2.3.6 Buffer and State Table

SMTP sessions are stateful, with both parties carefully maintaining a common view of the current state. In this document we model this state by a virtual "buffer" and a "state table" on the server which may be used by the client to, for example, "clear the buffer" or "reset the state table," causing the information in the buffer to be discarded and the state to be returned to some previous state.

2.3.7 Lines

SMTP commands and, unless altered by a service extension, message data, are transmitted in "lines". Lines consist of zero or more data characters terminated by the sequence ASCII character "CR" (hex value 0D) followed immediately by ASCII character "LF" (hex value 0A). This termination sequence is denoted as <CRLF> in this document. Conforming implementations MUST NOT recognize or generate any other character or character
sequence as a line terminator. Limits MAY be
imposed on line lengths by servers (see section 4.5.3).

In addition, the appearance of "bare" "CR" or "LF" characters in text (i.e., either without the other) has a long history of causing problems in mail implementations and applications that use the mail system as a tool. SMTP client implementations MUST NOT transmit these characters except when they are intended as line terminators and then MUST, as indicated above, transmit them only as a <CRLF> sequence.

2.3.8 Originator, Delivery, Relay, and Gateway Systems

This specification makes a distinction among four types of SMTP systems, based on the role those systems play in transmitting electronic mail. An "originating" system (sometimes called an SMTP originator) introduces mail into the Internet or, more generally, into a transport service environment. A "delivery" SMTP system is one that receives mail from a transport service environment and passes it to a mail user agent or deposits it in a message store which a mail user agent is expected to subsequently access. A "relay" SMTP system (usually referred to just as a "relay") receives mail from an SMTP client and transmits it, without modification to the message data other than adding trace information, to another SMTP server for further relaying or for delivery.

A "gateway" SMTP system (usually referred to just as a "gateway") receives mail from a client system in one transport environment and transmits it to a server system in another transport environment. Differences in protocols or message semantics between the transport environments on either side of a gateway may require that the gateway system perform transformations to the message that are not permitted to SMTP relay systems. For the purposes of this specification, firewalls that rewrite addresses should be considered as gateways, even if SMTP is used on both sides of them (see [11]).

2.3.9 Message Content and Mail Data

The terms "message content" and "mail data" are used interchangeably in this document to describe the material transmitted after the DATA command is accepted and before the end of data indication is transmitted. Message content includes message headers and the possibly-structured message body. The MIME specification [12] provides the standard mechanisms for structured message bodies.

2.3.10 Mailbox and Address

As used in this specification, an "address" is a character string that identifies a user to whom mail will be sent or a location into which mail will be deposited. The term "mailbox" refers to that depository. The two terms are typically used interchangeably unless the distinction between the location in which mail is placed (the mailbox) and a reference to it (the address) is important. An address normally consists of user and domain specifications. The standard mailbox naming convention is defined to be "local-part@domain": contemporary usage permits a much broader set of applications than simple "user names". Consequently, and due to a long history of problems when intermediate hosts have attempted to

optimize transport by modifying them, the local-part MUST be interpreted and assigned semantics only by the host specified in the domain part of the address.

2.3.11 Reply

An SMTP reply is an acknowledgment (positive or negative) sent from receiver to sender via the transmission channel in response to a command. The general form of a reply is a numeric completion code (indicating failure or success) usually followed by a text string. The codes are for use by programs and the text is usually intended for human users. Recent work [34] has specified further structuring of the reply strings, including the use of supplemental and more specific completion codes.

2.4 General Syntax Principles and Transaction Model

SMTP commands and replies have a rigid syntax. All commands begin with a command verb. All Replies begin with a three digit numeric code. In some commands and replies, arguments MUST follow the verb or reply code. Some commands do not accept arguments (after the verb), and some reply codes are followed, sometimes optionally, by free form text. In both cases, where text appears, it is separated from the verb or reply code by a space character. Complete definitions of commands and replies appear in section 4.

Verbs and argument values (e.g., "TO:" or "to:" in the RCPT command and extension name keywords) are not case sensitive, with the sole exception in this specification of a mailbox local-part (SMTP Extensions may explicitly specify case-sensitive elements). That is, a command verb, an argument value other than a mailbox local-part, and free form text MAY be encoded in upper case, lower case, or any mixture of upper and lower case with no impact on its meaning. This is NOT true of a mailbox local-part. The local-part of a mailbox MUST BE treated as case sensitive. Therefore, SMTP implementations MUST take care to preserve the case of mailbox local-parts. Mailbox domains are not case sensitive. In particular, for some hosts the user "smith" is different from the user "Smith". However, exploiting the case sensitivity of mailbox local-parts impedes interoperability and is discouraged.

A few SMTP servers, in violation of this specification (and RFC 821) require that command verbs be encoded by clients in upper case. Implementations MAY wish to employ this encoding to accommodate those servers.

The argument field consists of a variable length character string ending with the end of the line, i.e., with the character sequence <CRLF>. The receiver will take no action until this sequence is received.

The syntax for each command is shown with the discussion of that command. Common elements and parameters are shown in section 4.1.2.

Commands and replies are composed of characters from the ASCII character set [1]. When the transport service provides an 8-bit byte (octet) transmission channel, each 7-bit character is transmitted right justified in an octet with the high order bit cleared to zero. More specifically, the unextended SMTP service provides seven bit transport only. An originating SMTP client which has not successfully negotiated an appropriate extension with a particular server MUST NOT transmit messages with information in the high-order bit of octets. If such messages are transmitted in violation of this rule, receiving SMTP servers MAY clear the high-order bit or reject the message as invalid. In general, a relay SMTP SHOULD assume that the message content it has received is valid and, assuming that the envelope permits doing so, relay it without inspecting that content. Of course, if the content is mislabeled and the data path cannot accept the actual content, this may result in ultimate delivery of a severely garbled message to the recipient. Delivery SMTP systems MAY reject ("bounce") such messages rather than deliver them. No sending SMTP system is permitted to send envelope commands in any character

set other than US-ASCII; receiving systems SHOULD reject such commands, normally using "500 syntax error - invalid character" replies.

Eight-bit message content transmission MAY be requested of the server by a client using extended SMTP facilities, notably the "8BITMIME" extension [20]. 8BITMIME SHOULD be supported by SMTP servers. However, it MUST not be construed as authorization to transmit unrestricted eight bit material. 8BITMIME MUST NOT be requested by senders for material with the high bit on that is not in MIME format with an appropriate content-transfer encoding; servers MAY reject such messages.

The metalinguistic notation used in this document corresponds to the "Augmented BNF" used in other Internet mail system documents. The reader who is not familiar with that syntax should consult the ABNF specification [8]. Metalanguage terms used in running text are surrounded by pointed brackets (e.g., <CRLF>) for clarity.

3. The SMTP Procedures: An Overview

This section contains descriptions of the procedures used in SMTP: session initiation, the mail transaction, forwarding mail, verifying mailbox names and expanding mailing lists, and the opening and closing exchanges. Comments on relaying, a note on mail domains, and a discussion of changing roles are included at the end of this section. Several complete scenarios are presented in appendix D.

3.1 Session Initiation

An SMTP session is initiated when a client opens a connection to a server and the server responds with an opening message.

SMTP server implementations MAY include identification of their software and version information in the connection greeting reply after the 220 code, a practice that permits more efficient isolation and repair of any problems. Implementations MAY make provision for SMTP servers to disable the software and version announcement where it causes security concerns. While some systems also identify their contact point for mail problems, this is not a substitute for maintaining the required "postmaster" address (see section 4.5.1).

The SMTP protocol allows a server to formally reject a transaction while still allowing the initial connection as follows: a 554 response MAY be given in the initial connection opening message instead of the 220. A server taking this approach MUST still wait for the client to send a QUIT (see section 4.1.1.10) before closing the connection and SHOULD respond to any intervening commands with "503 bad sequence of commands". Since an attempt to make an SMTP connection to such a system is probably in error, a server returning a 554 response on connection opening SHOULD provide enough information in the reply text to facilitate debugging of the sending system.

3.2 Client Initiation

Once the server has sent the welcoming message and the client has received it, the client normally sends the EHLO command to the server, indicating the client's identity. In addition to opening the session, use of EHLO indicates that the client is able to process service extensions and requests that the server provide a list of the extensions it supports. Older SMTP systems which are unable to support service extensions and contemporary clients which do not require service extensions in the mail session being initiated, MAY

use HELO instead of EHLO. Servers MUST NOT return the extended EHLO-style response to a HELO command. For a particular connection attempt, if the server returns a "command not recognized" response to EHLO, the client SHOULD be able to fall back and send HELO.

In the EHLO command the host sending the command identifies itself; the command may be interpreted as saying "Hello, I am <domain>" (and, in the case of EHLO, "and I support service extension requests").

3.3 Mail Transactions

There are three steps to SMTP mail transactions. The transaction starts with a MAIL command which gives the sender identification. (In general, the MAIL command may be sent only when no mail transaction is in progress; see section 4.1.4.) A series of one or more RCPT commands follows giving the receiver information. Then a DATA command initiates transfer of the mail data and is terminated by the "end of mail" data indicator, which also confirms the transaction.

The first step in the procedure is the MAIL command.

```
MAIL FROM:<reverse-path> [SP <mail-parameters> ] <CRLF>
```

This command tells the SMTP-receiver that a new mail transaction is starting and to reset all its state tables and buffers, including any recipients or mail data. The <reverse-path> portion of the first or only argument contains the source mailbox (between "<" and ">" brackets), which can be used to report errors (see section 4.2 for a discussion of error reporting). If accepted, the SMTP server returns a 250 OK reply. If the mailbox specification is not acceptable for some reason, the server MUST return a reply indicating whether the

failure is permanent (i.e., will occur again if the client tries to send the same address again) or temporary (i.e., the address might be accepted if the client tries again later). Despite the apparent scope of this requirement, there are circumstances in which the acceptability of the reverse-path may not be determined until one or more forward-paths (in RCPT commands) can be examined. In those cases, the server MAY reasonably accept the reverse-path (with a 250 reply) and then report problems after the forward-paths are received and examined. Normally, failures produce 550 or 553 replies.

Historically, the <reverse-path> can contain more than just a mailbox, however, contemporary systems SHOULD NOT use source routing

(see appendix C).

The optional <mail-parameters> are associated with negotiated SMTP service extensions (see section 2.2).

The second step in the procedure is the RCPT command.

RCPT TO:<forward-path> [SP <rcpt-parameters>] <CRLF>

The first or only argument to this command includes a forward-path (normally a mailbox and domain, always surrounded by "<" and ">" brackets) identifying one recipient. If accepted, the SMTP server returns a 250 OK reply and stores the forward-path. If the recipient is known not to be a deliverable address, the SMTP server returns a 550 reply, typically with a string such as "no such user - " and the mailbox name (other circumstances and reply codes are possible). This step of the procedure can be repeated any number of times.

The <forward-path> can contain more than just a mailbox. Historically, the <forward-path> can be a source routing list of hosts and the destination mailbox, however, contemporary SMTP clients SHOULD NOT utilize source routes (see appendix C). Servers MUST be prepared to encounter a list of source routes in the forward path, but SHOULD ignore the routes or MAY decline to support the relaying they imply. Similarly, servers MAY decline to accept mail that is destined for other hosts or systems. These restrictions make a server useless as a relay for clients that do not support full SMTP functionality. Consequently, restricted-capability clients MUST NOT assume that any SMTP server on the Internet can be used as their mail processing (relaying) site. If a RCPT command appears without a previous MAIL command, the server MUST return a 503 "Bad sequence of commands" response. The optional <rcpt-parameters> are associated with negotiated SMTP service extensions (see section 2.2).

The third step in the procedure is the DATA command (or some alternative specified in a service extension).

DATA <CRLF>

If accepted, the SMTP server returns a 354 Intermediate reply and considers all succeeding lines up to but not including the end of mail data indicator to be the message text. When the end of text is successfully received and stored the SMTP-receiver sends a 250 OK reply.

Since the mail data is sent on the transmission channel, the end of mail data must be indicated so that the command and reply dialog can

be resumed. SMTP indicates the end of the mail data by sending a line containing only a "." (period or full stop). A transparency procedure is used to prevent this from interfering with the user's text (see section 4.5.2).

The end of mail data indicator also confirms the mail transaction and tells the SMTP server to now process the stored recipients and mail data. If accepted, the SMTP server returns a 250 OK reply. The DATA command can fail at only two points in the protocol exchange:

- If there was no MAIL, or no RCPT, command, or all such commands were rejected, the server MAY return a "command out of sequence" (503) or "no valid recipients" (554) reply in response to the DATA command. If one of those replies (or any other 5yz reply) is received, the client MUST NOT send the message data; more generally, message data MUST NOT be sent unless a 354 reply is received.

- If the verb is initially accepted and the 354 reply issued, the DATA command should fail only if the mail transaction was incomplete (for example, no recipients), or if resources were unavailable (including, of course, the server unexpectedly becoming unavailable), or if the server determines that the message should be rejected for policy or other reasons.

However, in practice, some servers do not perform recipient verification until after the message text is received. These servers SHOULD treat a failure for one or more recipients as a "subsequent failure" and return a mail message as discussed in section 6. Using a "550 mailbox not found" (or equivalent) reply code after the data are accepted makes it difficult or impossible for the client to determine which recipients failed.

When RFC 822 format [7, 32] is being used, the mail data include the memo header items such as Date, Subject, To, Cc, From. Server SMTP systems SHOULD NOT reject messages based on perceived defects in the RFC 822 or MIME [12] message header or message body. In particular,

they MUST NOT reject messages in which the numbers of Resent-fields do not match or Resent-to appears without Resent-from and/or Resent-date.

Mail transaction commands MUST be used in the order discussed above.

3.4 Forwarding

for Address Correction or Updating

Forwarding support is most often required to consolidate and simplify addresses within, or relative to, some enterprise and less frequently to establish addresses to link a person's prior address with current one. Silent forwarding of messages (without server notification to the sender), for security or non-disclosure purposes, is common in the contemporary Internet.

In both the enterprise and the "new address" cases, information hiding (and sometimes security) considerations argue against exposure of the "final" address through the SMTP protocol as a side-effect of the forwarding activity. This may be especially important when the final address may not even be reachable by the sender. Consequently, the "forwarding" mechanisms described in section 3.2 of RFC 821, and especially the 251 (corrected destination) and 551 reply codes from RCPT must be evaluated carefully by implementers and, when they are available, by those configuring systems.

In particular:

* Servers MAY forward messages when they are aware of an address change. When they do so, they MAY either provide address-updating information with a 251 code, or may forward "silently" and return a 250 code. But, if a 251 code is used, they MUST NOT assume that the client will actually update address information or even return that information to the user.

Alternately,

* Servers MAY reject or bounce messages when they are not deliverable when addressed. When they do so, they MAY either provide address-updating information with a 551 code, or may reject the message as undeliverable with a 550 code and no address-specific information. But, if a 551 code is used, they MUST NOT assume that the client will actually update address information or even return that information to the user.

SMTP server implementations that support the 251 and/or 551 reply codes are strongly encouraged to provide configuration mechanisms so that sites which conclude that they would undesirably disclose information can disable or restrict their use.

3.5 Commands for Debugging Addresses

3.5.1 Overview

SMTP provides commands to verify a user name or obtain the content of a mailing list. This is done with the VRFY and EXPN commands, which have character string arguments. Implementations SHOULD support VRFY and EXPN (however, see section 3.5.2 and 7.3).

For the VRFY command, the string is a user name or a user name and domain (see below). If a normal (i.e., 250) response is returned, the response MAY include the full name of the user and MUST include the mailbox of the user. It MUST be in either of the following forms:

```
User Name <local-part@domain>
local-part@domain
```

When a name that is the argument to VRFY could identify more than one mailbox, the server MAY either note the ambiguity
or identify the
alternatives. In other words, any of the following are legitimate response to VRFY:

```
553 User ambiguous
```

or

```
553- Ambiguous;  Possibilities are
553-Joe Smith <jsmith@foo.com>
553-Harry Smith <hsmith@foo.com>
553 Melvin Smith <dweep@foo.com>
```

or

```
553-Ambiguous;  Possibilities
553- <jsmith@foo.com>
553- <hsmith@foo.com>
553 <dweep@foo.com>
```

Under normal circumstances, a client receiving a 553 reply would be expected to expose the result to the user. Use of exactly the forms given, and the "user ambiguous" or "ambiguous" keywords, possibly supplemented by extended reply codes such as those described in [34], will facilitate automated translation into other languages as needed. Of course, a client that was highly automated or that was operating in another language than English, might choose to try to translate the response, to return some other indication to the user than the

literal
text of the reply, or to take some automated action such as consulting a directory service for additional information before

reporting to the user.

For the EXPN command, the string identifies a mailing list, and the successful (i.e., 250) multiline response MAY include the full name of the users and MUST give the mailboxes on the mailing list.

In some hosts the distinction between a mailing list and an alias for a single mailbox is a bit fuzzy, since a common data structure may hold both types of entries, and it is possible to have mailing lists containing only one mailbox. If a request is made to apply VRFY to a mailing list, a positive response MAY be given if a message so addressed would be delivered to everyone on the list, otherwise an error SHOULD be reported (e.g., "550 That is a mailing list, not a user" or "252 Unable to verify members of mailing list"). If a request is made to expand a user name, the server MAY return a positive
response consisting of a list containing one name, or an error MAY be reported (e.g., "550 That is a user name, not a mailing list").

In the case of a successful multiline reply (normal for EXPN) exactly one mailbox is to be specified on each line of the reply. The case of an ambiguous request is discussed above.

"User name" is a fuzzy term and has been used deliberately. An implementation of the VRFY or EXPN commands MUST include at least recognition of local mailboxes as "user names". However, since current Internet practice often results in a single host handling mail for multiple domains, hosts, especially hosts that provide this functionality, SHOULD accept the "local-part@domain" form as a "user name"; hosts MAY also choose to recognize other strings as "user names".

The case of expanding a mailbox list requires a multiline reply, such as:

```
C: EXPN Example-People
S: 250-Jon Postel <Postel@isi.edu>
S: 250-Fred
Fonebone <Fonebone@physics.foo-u.edu>
S: 250 Sam Q. Smith <SQSmith@specific.generic.com>
```

or

```
C: EXPN Executive-Washroom-List
S: 550 Access Denied to You.
```

The character string arguments of the VRFY and EXPN commands cannot

be further restricted due to the variety of implementations of the user name and mailbox list concepts. On some systems it may be appropriate for the argument of the EXPN command to be a file name for a file containing a mailing list, but again there are a variety of file naming conventions in the Internet. Similarly, historical variations in what is returned by these commands are such that the response SHOULD be interpreted very carefully, if at all, and SHOULD generally only be used for diagnostic purposes.

3.5.2 VRFY Normal Response

When normal (2yz or 551) responses are returned from a VRFY or EXPN request, the reply normally includes the mailbox name, i.e., "<local-part@domain>", where "domain" is a fully qualified domain name, MUST appear in the syntax. In circumstances exceptional enough to justify violating the intent of this specification, free-form text MAY be returned. In order to facilitate parsing by both computers and people, addresses SHOULD appear in pointed brackets. When addresses, rather than free-form debugging information, are returned, EXPN and VRFY MUST return only valid domain addresses that are usable in SMTP RCPT commands. Consequently, if an address implies delivery to a program or other system, the mailbox name used to reach that target MUST be given. Paths (explicit source routes) MUST NOT be returned by VRFY or EXPN.

Server implementations SHOULD support both VRFY and EXPN. For security reasons, implementations MAY provide local installations a way to disable either or both of these commands through configuration options or the equivalent. When these commands are supported, they are not required to work across relays when relaying is supported. Since they were both optional in RFC 821, they MUST be listed as service extensions in an EHLO response, if they are supported.

3.5.3 Meaning of VRFY or EXPN Success Response

A server MUST NOT return a 250 code in response to a VRFY or EXPN command unless it has actually verified the address. In particular, a server MUST NOT return 250 if all it has done is to verify that the syntax given is valid. In that case, 502 (Command not implemented) or 500 (Syntax error, command unrecognized) SHOULD be returned. As stated elsewhere, implementation (in the sense of actually validating addresses and returning information) of VRFY and EXPN are strongly recommended. Hence, implementations that return 500 or 502 for VRFY are not in full compliance with this specification.

There may be circumstances where an address appears to be valid but

cannot reasonably be verified in real time, particularly when a server
is acting as a mail exchanger for another server or domain. "Apparent validity" in this case would normally involve at least syntax checking and might involve verification that any domains specified were ones to which the host expected to be able to relay mail. In these situations, reply code 252 SHOULD be returned. These cases parallel the discussion of RCPT verification discussed in section 2.1. Similarly, the discussion in section 3.4 applies to the use of reply codes 251 and 551 with VRFY (and EXPN) to indicate addresses that are recognized but that would be forwarded or bounced were mail received for them. Implementations generally SHOULD be more aggressive about address verification in the case of VRFY than in the case of RCPT, even if it takes a little longer to do so.

3.5.4 Semantics and Applications of EXPN

EXPN is often very useful in debugging and understanding problems with mailing lists and multiple-target-address aliases. Some systems
have attempted to use source expansion of mailing lists as a means of eliminating duplicates. The propagation of aliasing systems with mail on the Internet, for hosts (typically with MX and CNAME DNS records), for mailboxes (various types of local host aliases), and in various proxying arrangements, has made it nearly impossible for these strategies to work consistently, and mail systems SHOULD NOT attempt them.

3.6 Domains

Only resolvable, fully-qualified, domain names (FQDNs) are permitted when domain names are used in SMTP. In other words, names that can be resolved to MX RRs or A RRs (as discussed in section 5) are permitted, as are CNAME RRs whose targets can be resolved, in turn, to MX or A RRs. Local nicknames or unqualified names MUST NOT be used. There are two exceptions to the rule requiring FQDNs:

- The domain name given in the EHLO command MUST BE either a primary host name (a domain name that resolves to
an A RR) or, if the host
has no name, an address literal as described in section 4.1.1.1.

- The reserved mailbox name "postmaster" may be used in a RCPT command without domain qualification (see section 4.1.1.3) and MUST be accepted if so used.

3.7 Relaying

In general, the availability of Mail eXchanger records in the domain name system [22, 27] makes the use of explicit source routes in the Internet mail system unnecessary. Many historical problems with their interpretation have made their use undesirable. SMTP clients SHOULD NOT generate explicit source routes except under unusual circumstances. SMTP servers MAY decline to act as mail relays or to accept addresses that specify source routes. When route information is encountered, SMTP servers are also permitted to ignore the route information and simply send to the final destination specified as the last element in the route and SHOULD do so. There has been an invalid practice
of using names that do not appear in the DNS as destination names, with the senders counting on the intermediate hosts specified in source routing to resolve any problems. If source routes are stripped, this practice will cause failures. This is one of several reasons why SMTP clients MUST NOT generate invalid source routes or depend on serial resolution of names.

When source routes are not used, the process described in RFC 821 for constructing a reverse-path from the forward-path is not applicable and the reverse-path at the time of delivery will simply be the address that appeared in the MAIL command.

A relay SMTP server is usually the target of a DNS MX record that designates it, rather than the final delivery system. The relay server may accept or reject the task of relaying the mail in the same way it accepts or rejects mail for a local user. If it accepts the task, it then becomes an SMTP client, establishes a transmission channel to the next SMTP server specified in the DNS (according to the rules in section 5), and sends it the mail. If it declines to relay mail to a particular address for policy reasons, a 550 response SHOULD be returned.

Many mail-sending clients exist, especially in conjunction with facilities that receive mail via POP3 or IMAP, that have limited capability to support some of the requirements of this specification, such as the ability to queue messages for subsequent delivery attempts. For these clients, it is common practice to make private arrangements to send all messages to a single server for processing and subsequent distribution. SMTP, as specified here, is not ideally suited for this role, and work is underway on standardized mail submission protocols that might eventually supercede the current practices. In any event, because these arrangements are private and fall outside the scope of this specification, they are not described here.

It is important to note that MX records can point to SMTP servers which act as gateways into other environments, not just SMTP relays

and final delivery systems; see sections 3.8 and 5.

If an SMTP server has accepted the task of relaying the mail and later finds that the destination is incorrect or that the mail cannot be delivered for some other reason, then it MUST construct an "undeliverable mail" notification message and send it to the originator of the undeliverable mail (as indicated by the reverse-path). Formats specified for non-delivery reports by other standards (see, for example, [24, 25]) SHOULD be used if possible.

This notification message must be from the SMTP server at the relay host or the host that first determines that delivery cannot be accomplished. Of course, SMTP servers MUST NOT send notification messages about problems transporting notification messages. One way to prevent loops in error reporting is to specify a null reverse-path in the MAIL command of a notification message. When such a message is transmitted the reverse-path MUST be set to null (see section 4.5.5 for additional discussion). A MAIL command with a null reverse-path appears as follows:

```
MAIL FROM:<>
```

As discussed in section 2.4.1, a relay SMTP has no need to inspect or act upon the headers or body of the message data and MUST NOT do so except to add its own "Received:" header (section 4.4) and, optionally, to attempt to detect looping in the mail system (see section 6.2).

3.8 Mail Gatewaying

While the relay function discussed above operates within the Internet SMTP transport service environment, MX records or various forms of explicit routing may require that an intermediate SMTP server perform a translation function between one transport service and another. As discussed in section 2.3.8, when such a system is at the boundary between two transport service environments, we refer to it as a "gateway" or "gateway SMTP".

Gatewaying mail between different mail environments, such as different mail formats and protocols, is complex and does not easily yield to standardization. However, some general requirements may be given for a gateway between the Internet and another mail environment.

3.8.1 Header Fields in Gatewaying

Header fields MAY be rewritten when necessary as messages are gatewayed across mail environment boundaries. This may involve inspecting the message body or interpreting the local-part of the destination address in spite of the prohibitions in section 2.4.1.

Other mail systems gatewayed to the Internet often use a subset of RFC 822 headers or provide similar functionality with a different syntax, but some of these mail systems do not have an equivalent to the SMTP envelope. Therefore, when a message leaves the Internet environment, it may be necessary to fold the SMTP envelope information into the message header. A possible solution would be to create new header fields to carry the envelope information (e.g., "X-SMTP-MAIL:" and "X-SMTP-RCPT:"); however, this would require changes in mail programs in foreign environments and might risk disclosure of private information (see section 7.2).

3.8.2 Received Lines in Gatewaying

When forwarding a message into or out of the Internet environment, a gateway MUST prepend a Received: line, but it MUST NOT alter in any way a Received: line that is already in the header.

"Received:" fields of messages originating from other environments may not conform exactly to this specification. However, the most important use of Received: lines is for debugging mail faults, and this debugging can be severely hampered by well-meaning gateways that try to "fix" a Received: line. As another consequence of trace fields arising in non-SMTP environments, receiving systems MUST NOT reject
mail based on the format of a trace field and SHOULD be extremely robust in the light of unexpected information or formats in those fields.

The gateway SHOULD indicate the environment and protocol in the "via" clauses of Received field(s) that it supplies.

3.8.3 Addresses in Gatewaying

From the Internet side, the gateway SHOULD accept all valid address formats in SMTP commands and in RFC 822 headers, and all valid RFC 822 messages. Addresses and headers generated by gateways MUST conform to applicable Internet standards (including this one and RFC 822). Gateways are, of course, subject to the same rules for handling source routes as those described for other SMTP systems in section 3.3.

3.8.4 Other Header Fields in Gatewaying

The gateway MUST ensure that all header fields of a message that it forwards into the Internet mail environment meet the requirements for Internet mail. In particular, all addresses in "From:", "To:", "Cc:", etc., fields MUST be transformed (if necessary) to satisfy RFC 822 syntax, MUST reference only fully-qualified domain names, and MUST be effective and useful for sending replies. The translation algorithm used to convert mail from the Internet protocols to another environment's protocol SHOULD ensure that error messages from the foreign mail environment are delivered to the return path from the SMTP envelope, not to the sender listed in the "From:" field (or other fields) of the RFC 822 message.

3.8.5 Envelopes in Gatewaying

Similarly, when forwarding a message from another environment into the Internet, the gateway SHOULD set the envelope return path in accordance with an error message return address, if supplied by the foreign environment. If the foreign environment has no equivalent concept, the gateway must select and use a best approximation, with the message originator's address as the default of last resort.

3.9 Terminating Sessions and Connections

An SMTP connection is terminated when the client sends a QUIT command. The server responds with a positive reply code, after which it closes the connection.

An SMTP server MUST NOT intentionally close the connection except:

- After receiving a QUIT command and responding with a 221 reply.

- After detecting the need to shut down the SMTP service and returning a 421 response code. This response code can be issued after the server receives any command or, if necessary, asynchronously from command receipt (on the assumption that the client will receive it after the next command is issued).

In particular, a server that closes connections in response to commands that are not understood is in violation of this specification. Servers are expected to be tolerant of unknown commands, issuing a 500 reply and awaiting further instructions from the client.

An SMTP server which is forcibly shut down via external means SHOULD attempt to send a line containing a 421 response code to the SMTP client before exiting. The SMTP client will normally read the 421

response code after sending its next command.

SMTP clients that experience a connection close, reset, or other communications failure due to circumstances not under their control (in violation of the intent of this specification but sometimes unavoidable) SHOULD, to maintain the robustness of the mail system, treat the mail transaction as if a 451 response had been received and act accordingly.

3.10 Mailing Lists and Aliases

An SMTP-capable host SHOULD support both the alias and the list models of address expansion for multiple delivery. When a message is delivered or forwarded to each address of an expanded list form, the return address in the envelope ("MAIL FROM:") MUST be changed to be the address of a person or other entity who administers the list. However, in this case, the message header [32] MUST be left unchanged; in particular, the "From" field of the message header is unaffected.

An important mail facility is a mechanism for multi-destination delivery of a single message, by transforming (or "expanding" or "exploding") a pseudo-mailbox address into a list of destination mailbox addresses. When a message is sent to such a pseudo-mailbox (sometimes called an "exploder"), copies are forwarded or redistributed to each mailbox in the expanded list. Servers SHOULD simply utilize the addresses on the list; application of heuristics or other matching rules to eliminate some addresses, such as that of the originator, is strongly discouraged. We classify such a pseudo-mailbox as an "alias" or a "list", depending upon the expansion rules.

3.10.1 Alias

To expand an alias, the recipient mailer simply replaces the pseudo-mailbox address in the envelope with each of the expanded addresses in turn; the rest of the envelope and the message body are left unchanged. The message is then delivered or forwarded to each expanded address.

3.10.2 List

A mailing list may be said to operate by "redistribution" rather than by "forwarding". To expand a list, the recipient mailer replaces the pseudo-mailbox address in the envelope with all of the expanded

addresses. The return address in the envelope is changed so that all error messages generated by the final deliveries will be returned to a list administrator, not to the message originator, who generally has no control over the contents of the list and will typically find error messages annoying.

4. The SMTP Specifications

4.1 SMTP Commands

4.1.1 Command Semantics and Syntax

The SMTP commands define the mail transfer or the mail system function requested by the user. SMTP commands are character strings terminated by <CRLF>. The commands themselves are alphabetic characters terminated by <SP> if parameters follow and <CRLF> otherwise. (In the interest of improved interoperability, SMTP receivers are encouraged to tolerate trailing white space before the terminating <CRLF>.) The syntax of the local part of a mailbox must conform to receiver site conventions and the syntax specified in section 4.1.2. The SMTP commands are discussed below. The SMTP replies are discussed in section 4.2.

A mail transaction involves several data objects which are communicated as arguments to different commands. The reverse-path is the argument of the MAIL command, the forward-path is the argument of the RCPT command, and the mail data is the argument of the DATA command. These arguments or data objects must be transmitted and held pending the confirmation communicated by the end of mail data indication which finalizes the transaction. The model for this is that distinct buffers are provided to hold the types of data objects, that is, there is a reverse-path buffer, a forward-path buffer, and a mail data buffer. Specific commands cause information to be appended to a specific buffer, or cause one or more buffers to be cleared.

Several commands (RSET, DATA, QUIT) are specified as not permitting parameters. In the absence of specific extensions offered by the server and accepted by the client, clients MUST NOT send such parameters and servers SHOULD reject commands containing them as having invalid syntax.

4.1.1.1 Extended HELLO (EHLO) or HELLO (HELO)

These commands are used to identify the SMTP client to the SMTP server. The argument field contains the fully-qualified domain name of the SMTP client if one is available. In situations in which the SMTP client system does not have a meaningful domain name (e.g., when

its address is dynamically allocated and no reverse mapping record is

available), the client SHOULD send an address literal (see section
4.1.3), optionally followed by information that will help
to identify
the client system. y The SMTP server identifies itself to the SMTP
client in the connection greeting reply and in the response to this
command.

A client SMTP SHOULD start an SMTP session by issuing the EHLO
command. If the SMTP server supports the SMTP service extensions it
will give a successful response, a failure response, or an error
response. If the SMTP server, in violation of this specification,
does not support any SMTP service extensions it will generate an
error response. Older client SMTP systems MAY, as discussed above,
use HELO (as specified in RFC 821) instead of EHLO, and servers MUST
support the HELO command and reply properly to it. In any event, a
client MUST issue HELO or EHLO before starting a mail transaction.

These commands, and a "250 OK" reply to one of them, confirm that
both the SMTP client and the SMTP server are in the initial state,
that is, there is no transaction in progress and all state
tables and
buffers are cleared.

Syntax:

```
ehlo          = "EHLO" SP Domain CRLF
helo          = "HELO" SP Domain CRLF
```

Normally, the response to EHLO will be a multiline reply. Each line
of the response contains a keyword and, optionally, one or more
parameters. Following the normal syntax for multiline replies, these
keyworks follow the code (250) and a hyphen for all but the last
line, and the code and a space for the last line. The syntax for a
positive response, using the ABNF notation and terminal symbols of
[8], is:

```
ehlo-ok-rsp  =    ( "250"    domain [ SP ehlo-greet ] CRLF )
           / (    "250-"   domain [ SP ehlo-greet ] CRLF
               *( "250-"   ehlo-line              CRLF )
                  "250"    SP ehlo-line           CRLF  )

ehlo-greet   = 1*(%d0-9 / %d11-12 / %d14-127)
           ; string of any characters other than CR or LF

ehlo-line    = ehlo-keyword *( SP
```

ehlo-param)

```
ehlo-keyword = (ALPHA / DIGIT) *(ALPHA / DIGIT / "-")
            ; additional syntax of ehlo-params depends on
            ; ehlo-keyword

ehlo-param   = 1*(%d33-127)
            ; any CHAR excluding <SP> and all
            ; control characters (US-ASCII 0-31 inclusive)
```

Although EHLO keywords may be specified in upper, lower, or mixed case, they MUST always be recognized and processed in a case-insensitive manner. This is simply an extension of practices specified in RFC 821 and section 2.4.1.

4.1.1.2 MAIL (MAIL)

This command is used to initiate a mail transaction in which the mail data is delivered to an SMTP server which may, in turn, deliver it to one or more mailboxes or pass it on to another system (possibly using SMTP). The argument field contains a reverse-path and may contain optional parameters. In general, the MAIL command may be sent only when no mail transaction is in progress, see section 4.1.4.

The reverse-path consists of the sender mailbox. Historically, that mailbox might optionally have been preceded by a list of hosts, but that behavior is now deprecated (see appendix C). In some types of reporting messages for which a reply is likely to cause a mail loop (for example, mail delivery and nondelivery notifications), the reverse-path may be null (see section 3.7).

This command clears the reverse-path buffer, the forward-path buffer, and the mail data buffer; and inserts the reverse-path information from this command into the reverse-path buffer.

If service extensions were negotiated, the MAIL command may also carry parameters associated with a particular service extension.

Syntax:

```
"MAIL FROM:" ("<>" / Reverse-Path)
            [SP Mail-parameters] CRLF
```

4.1.1.3 RECIPIENT (RCPT)

This command is used to identify an individual recipient of the mail data; multiple recipients are specified by multiple

use of this
command. The argument field contains a forward-path and may contain optional parameters.

The forward-path normally consists of the required destination mailbox. Sending systems SHOULD not generate the optional list of hosts known as a source route. Receiving systems MUST recognize

source route syntax but SHOULD strip off the source route specification and utilize the domain name associated with the mailbox as if the source route had not been provided.

Similarly, relay hosts SHOULD strip or ignore source routes, and names MUST NOT be copied into the reverse-path. When mail reaches its ultimate destination (the forward-path contains only a destination mailbox), the SMTP server inserts it into the destination mailbox in accordance with its host mail conventions.

For example, mail received at relay host xyz.com with envelope commands

```
MAIL FROM:<userx@y.foo.org>
RCPT TO:<@hosta.int,@jkl.org:userc@d.bar.org>
```

will normally be sent directly on to host d.bar.org with envelope commands

```
MAIL FROM:<userx@y.foo.org>
RCPT TO:<userc@d.bar.org>
```

As provided in appendix C, xyz.com MAY also choose to relay the message to hosta.int, using the envelope commands

```
MAIL FROM:<userx@y.foo.org>
RCPT TO:<@hosta.int,@jkl.org:userc@d.bar.org>
```

or to jkl.org, using the envelope commands

```
MAIL FROM:<userx@y.foo.org>
RCPT TO:<@jkl.org:userc@d.bar.org>
```

Of course, since hosts are not required to relay mail at all, xyz.com may also reject the message entirely when the RCPT command is received, using a 550 code (since this is a "policy reason").

If service extensions were negotiated, the RCPT command may also carry parameters associated with a particular service extension offered by the server. The client MUST NOT transmit parameters other

than those associated with a service extension offered by the server in its EHLO response.

Syntax:

"RCPT TO:" ("<Postmaster@" domain ">" / "<Postmaster>" / Forward-Path)
[SP Rcpt-parameters] CRLF

4.1.1.4 DATA (DATA)

The receiver normally sends a 354 response to DATA, and then treats the lines (strings ending in <CRLF> sequences, as described in section 2.3.7) following the command as mail data from the sender. This command causes the mail data to be appended to the mail data buffer. The mail data may contain any of the 128 ASCII character codes, although experience has indicated that use of control characters other than SP, HT, CR, and LF may cause problems and SHOULD be avoided when possible.

The mail data is terminated by a line containing only a period, that is, the character sequence "<CRLF>.<CRLF>" (see section 4.5.2). This is the end of mail data indication. Note that the first <CRLF> of this terminating sequence is also the <CRLF> that ends the final line of the data (message text) or, if there was no data, ends the DATA command itself. An extra <CRLF> MUST NOT be added, as that would cause an empty line to be added to the message. The only exception to this rule would arise if the message body were passed to the originating SMTP-sender with a final "line" that did not end in <CRLF>; in that case, the originating SMTP system MUST either reject the message as invalid or add <CRLF> in order to have the receiving SMTP server recognize the "end of data" condition.

The custom of accepting lines ending only in <LF>, as a concession to non-conforming behavior on the part of some UNIX systems, has proven to cause more interoperability problems than it solves, and SMTP server systems MUST NOT do this, even in the name of improved robustness. In particular, the sequence "<LF>.<LF>" (bare line feeds, without carriage returns) MUST NOT be treated as equivalent to <CRLF>.<CRLF> as the end of mail data indication.

Receipt of the end of mail data indication requires the server to process the stored mail transaction information. This processing consumes the information in the reverse-path buffer, the forward-path buffer, and the mail data buffer, and on the completion of this command these buffers are cleared. If the processing is successful, the receiver MUST send an OK reply. If the processing fails the receiver MUST send a failure reply. The SMTP model does not allow

for partial failures at this point: either the message is accepted by the server for delivery and a positive response is returned or it is not accepted and a failure reply is returned. In sending a positive completion reply to the end of data indication, the receiver takes full responsibility for the message (see section 6.1). Errors that are diagnosed subsequently MUST be reported in a mail message, as discussed in section 4.4.

When the SMTP server accepts a message either for relaying or for final delivery, it inserts a trace record (also referred to interchangeably as a "time stamp line" or "Received" line) at the top of the mail data. This trace record indicates the identity of the host that sent the message, the identity of the host that received the message (and is inserting this time stamp), and the date and time the message was received. Relayed messages will have multiple time stamp lines. Details for formation of these lines, including their syntax, is specified in section 4.4.

Additional discussion about the operation of the DATA command appears in section 3.3.

Syntax:

"DATA" CRLF

4.1.1.5 RESET (RSET)

This command specifies that the current mail transaction will be aborted. Any stored sender, recipients, and mail data MUST be discarded, and all buffers and state tables cleared. The receiver MUST send a "250 OK" reply to a RSET command with no arguments. A reset command may be issued by the client at any time. It is effectively equivalent to a NOOP (i.e., if has no effect) if issued immediately after EHLO, before EHLO is issued in the session, after an end-of-data indicator has been sent and acknowledged, or immediately before a QUIT. An SMTP server MUST NOT close the connection as the result of receiving a RSET; that action is reserved for QUIT (see section 4.1.1.10).

Since EHLO implies some additional processing and response by the server, RSET will normally be more efficient than reissuing that command, even though the formal semantics are the same.

There are circumstances, contrary to the intent of this specification, in which an SMTP server may receive an indication that the underlying TCP connection has been closed or reset. To preserve the robustness of the mail system, SMTP servers SHOULD be prepared

for this condition and SHOULD treat it as if a QUIT had been received before the connection disappeared.

Syntax:
"RSET" CRLF

4.1.1.6 VERIFY (VRFY)

This command asks the receiver to confirm that the argument identifies a user or mailbox. If it is a user name, information is returned as specified in section 3.5.

This command has no effect on the reverse-path buffer, the forward-path buffer, or the mail data buffer.

Syntax:
"VRFY" SP String CRLF

4.1.1.7 EXPAND (EXPN)

This command asks the receiver to confirm that the argument identifies a mailing list, and if so, to return the membership of that list. If the command is successful, a reply is returned containing information as described in section 3.5. This reply will have multiple lines except in the trivial case of a one-member list.

This command has no effect on the reverse-path buffer, the forward-path buffer, or the mail data buffer and may be issued at any time.

Syntax:
"EXPN" SP String CRLF

4.1.1.8 HELP (HELP)

This command causes the server to send helpful information to the client. The command MAY take
an argument (e.g., any command name)
and return more specific information as a response.

This command has no effect on the reverse-path buffer, the forward-path buffer, or the mail data buffer and may be issued at any time.

SMTP servers SHOULD support HELP without arguments and MAY support it with arguments.

Syntax:
"HELP" [SP String] CRLF

4.1.1.9 NOOP (NOOP)

This command does not affect any parameters or previously entered commands. It specifies no action other than that the receiver send an OK reply.

This command has no effect on the reverse-path buffer, the forward-path buffer, or the mail data buffer and may be issued at any time. If a parameter string is specified, servers SHOULD ignore it.

Syntax:
"NOOP" [SP String] CRLF

4.1.1.10 QUIT (QUIT)

This command specifies that the receiver MUST send an OK reply, and then close the transmission channel.

The receiver MUST NOT intentionally close the transmission channel until it receives and replies to a QUIT command (even if there was an error). The sender MUST NOT intentionally close the transmission channel until it sends a QUIT command and SHOULD wait until it receives the reply (even if there was an error response to a previous command). If the connection is closed prematurely due to violations of the above or system or network failure, the server MUST cancel any pending transaction, but not undo any previously completed transaction, and generally MUST act as if the command or transaction in progress had received a temporary error (i.e., a 4yz response).

The QUIT command may be issued at any time.

Syntax:
"QUIT" CRLF

4.1.2 Command Argument Syntax

The syntax of the argument fields of the above commands (using the syntax specified in [8] where applicable) is given below. Some of the productions given below are used only in conjunction with source routes as described in appendix C. Terminals not defined in this document, such as ALPHA, DIGIT, SP, CR, LF, CRLF, are as defined in the "core" syntax [8 (section 6)] or in the message format syntax [32].

Reverse-path = Path
Forward-path = Path

```
Path = "<" [ A-d-l ":" ] Mailbox ">"
A-d-l = At-domain *( "," A-d-l )
     ; Note that this form, the so-called "source route",
     ; MUST BE accepted, SHOULD NOT be generated, and SHOULD be
     ; ignored.
At-domain = "@" domain
Mail-parameters = esmtp-param *(SP esmtp-param)
Rcpt-parameters = esmtp-param *(SP esmtp-param)

esmtp-param     = esmtp-keyword ["=" esmtp-value]
esmtp-keyword   = (ALPHA / DIGIT) *(ALPHA / DIGIT / "-")
esmtp-value     = 1*(%d33-60 / %d62-127)
     ; any CHAR excluding "=", SP, and control characters
Keyword  = Ldh-str
Argument = Atom
Domain = (sub-domain 1*("." sub-domain)) / address-literal
sub-domain = Let-dig [Ldh-str]

address-literal
= "[" IPv4-address-literal /
                IPv6-address-literal /
                General-address-literal "]"
     ; See section 4.1.3

Mailbox = Local-part "@" Domain

Local-part = Dot-string / Quoted-string
     ; MAY be case-sensitive

Dot-string = Atom *("." Atom)

Atom = 1*atext

Quoted-string = DQUOTE *qcontent DQUOTE

String = Atom / Quoted-string
```

While the above definition for Local-part is relatively permissive, for maximum interoperability, a host that expects to receive mail SHOULD avoid defining mailboxes where the Local-part requires (or uses) the Quoted-string form or where the Local-part is case-sensitive. For any purposes that require generating or comparing Local-parts (e.g., to specific mailbox names), all quoted forms MUST be treated as equivalent and the sending system SHOULD transmit the form that uses the minimum quoting possible.

Systems MUST NOT

define mailboxes in such a way as to require the use
in SMTP of non-ASCII characters (octets with the high order bit set
to one) or ASCII "control characters" (decimal value 0-31 and 127).
These characters MUST NOT be used in MAIL or RCPT commands or other
commands that require mailbox names.

Note that the backslash, "\", is a quote character, which is used to
indicate that the next character is to be used literally (instead of
its normal interpretation). For example, "Joe\,Smith" indicates a
single nine character user field with the comma being the fourth
character of the field.

To promote interoperability and consistent with long-standing
guidance about conservative use of the DNS in naming and applications
(e.g., see section 2.3.1 of the base DNS document, RFC1035 [22]),
characters outside the set of alphas, digits, and hyphen MUST NOT
appear in domain name labels for SMTP clients or servers. In
particular, the underscore character
is not permitted. SMTP servers
that receive a command in which invalid character codes have been
employed, and for which there are no other reasons for rejection,
MUST reject that command with a 501 response.

4.1.3 Address Literals

Sometimes a host is not known to the domain name system and
communication (and, in particular, communication to report and repair
the error) is blocked. To bypass this barrier a special literal form
of the address is allowed as an alternative to a domain name. For
IPv4 addresses, this form uses four small decimal integers separated
by dots and enclosed by brackets such as [123.255.37.2], which
indicates an (IPv4) Internet Address in sequence-of-octets form. For
IPv6 and other forms of addressing that might eventually be
standardized, the form consists of a standardized "tag" that
identifies the address syntax, a colon, and the address itself, in a
format specified as part of the IPv6 standards [17].

Specifically:

```
 IPv4-address-literal = Snum 3("." Snum)
IPv6-address-literal = "IPv6:" IPv6-addr
General-address-literal = Standardized-tag ":" 1*dcontent
Standardized-tag = Ldh-str
     ; MUST be specified in a standards-track RFC
     ; and registered with IANA

Snum = 1*3DIGIT  ; representing a decimal integer
     ; value in the range 0 through 255
```

```
Let-dig = ALPHA / DIGIT
Ldh-str = *( ALPHA / DIGIT / "-" ) Let-dig

IPv6-addr = IPv6-full / IPv6-comp / IPv6v4-full / IPv6v4-comp
IPv6-hex  = 1*4HEXDIG
IPv6-full = IPv6-hex 7(":" IPv6-hex)
IPv6-comp = [IPv6-hex *5(":" IPv6-hex)] "::" [IPv6-hex *5(":"
        IPv6-hex)]
     ; The "::" represents at least 2 16-bit groups of zeros
     ; No more than 6 groups in addition to the "::" may be
     ; present
IPv6v4-full = IPv6-hex 5(":" IPv6-hex) ":" IPv4-address-literal
IPv6v4-comp = [IPv6-hex *3(":" IPv6-hex)] "::"


        [IPv6-hex *3(":" IPv6-hex) ":"] IPv4-address-literal
     ; The "::" represents at least 2 16-bit groups of zeros
     ; No more than 4 groups in addition to the "::" and
     ; IPv4-address-literal may be present
```

4.1.4 Order of Commands

There are restrictions on the order in which these commands may be used.

A session that will contain mail transactions MUST first be initialized by the use of the EHLO command. An SMTP server SHOULD accept commands for non-mail transactions (e.g., VRFY or EXPN) without this initialization.

An EHLO command MAY be issued by a client later in the session. If it is issued after the session begins, the SMTP server MUST clear all buffers and reset the state exactly as if a RSET command had been issued. In other words, the sequence of RSET followed immediately by EHLO is redundant, but not harmful other than in the performance cost of executing unnecessary commands.

If the EHLO command is not acceptable to the SMTP server, 501, 500, or 502 failure replies MUST be returned as appropriate. The SMTP server MUST stay in the same state after transmitting these replies that it was in before the EHLO was received.

The SMTP client MUST, if possible, ensure that the domain parameter to the EHLO command is a valid principal host name (not a CNAME or MX name) for its host. If this is not possible (e.g., when the client's address is dynamically assigned and the client does not have an obvious name), an address literal SHOULD be substituted for the

domain name and supplemental information provided that will assist in identifying the client.

An SMTP server MAY verify that the domain name parameter in the EHLO command actually corresponds to the IP address of the client. However, the server MUST NOT refuse to accept a message for this reason if the verification fails: the information about verification failure is for logging and tracing only.

The NOOP, HELP, EXPN, VRFY, and RSET commands can be used at any time during a session, or without previously initializing a session. SMTP servers SHOULD process these normally (that is, not return a 503 code) even if no EHLO command has yet been received; clients SHOULD open a session with EHLO before sending these commands.

If these rules are followed, the example in RFC 821 that shows "550 access denied to you" in response to an EXPN command is incorrect unless an EHLO command precedes the EXPN or the denial of access is based on the client's IP address or other authentication or authorization-determining mechanisms.

The MAIL command (or the obsolete SEND, SOML, or SAML commands) begins a mail transaction. Once started, a mail transaction consists of a transaction beginning command, one or more RCPT commands, and a DATA command, in that order. A mail transaction may be aborted by the RSET (or a new EHLO) command. There may be zero or more transactions in a session. MAIL (or SEND, SOML, or SAML) MUST NOT be sent if a mail transaction is already open, i.e., it should be sent only if no mail transaction had been started in the session, or it the previous one successfully concluded with a successful DATA command, or if the previous one was aborted with a RSET.

If the transaction beginning command argument is not acceptable, a 501 failure reply MUST be returned and the SMTP server MUST stay in the same state. If the commands in a transaction are out of order to the degree that they cannot be processed by the server, a 503 failure reply MUST be returned and the SMTP server MUST stay in the same state.

The last command in a session MUST be the QUIT command. The QUIT command cannot be used at any other time in a session, but SHOULD be used by the client SMTP to request connection closure, even when no session opening command was sent and accepted.

4.1.5

Private-use Commands

As specified in section 2.2.2, commands starting in "X" may be used by bilateral agreement between the client (sending) and server (receiving) SMTP agents. An SMTP server that does not recognize such a command is expected to reply with "500 Command not recognized". An extended SMTP server MAY list the feature names associated with these private commands in the response to the EHLO command.

Commands sent or accepted by SMTP systems that do not start with "X" MUST conform to the requirements of section 2.2.2.

4.2 SMTP Replies

Replies to SMTP commands serve to ensure the synchronization of requests and actions in the process of mail transfer and to guarantee that the SMTP client always knows the state of the SMTP server. Every command MUST generate exactly one reply.

The details of the command-reply sequence are described in section 4.3.

An SMTP reply consists of a three digit number (transmitted as three numeric characters) followed by some text unless specified otherwise in this document. The number is for use by automata to determine what state to enter next; the text is for the human user. The three digits contain enough encoded information that the SMTP client need not examine the text and may either discard it or pass it on to the user, as appropriate. Exceptions are as noted elsewhere in this document. In particular, the 220, 221, 251, 421, and 551 reply codes are associated with message text that must be parsed and interpreted by machines. In the general case, the text may be receiver dependent and context dependent, so there are likely to be varying texts for each reply code. A discussion of the theory of reply codes is given in section 4.2.1. Formally, a reply is defined to be the sequence: a three-digit code, <SP>, one line of text, and <CRLF>, or a multiline reply (as defined in section 4.2.1). Since, in violation of this specification, the text is sometimes not sent, clients which do not receive it SHOULD be prepared to process the code alone (with or without a trailing space character). Only the EHLO, EXPN, and HELP commands are expected to result in multiline replies in normal circumstances, however, multiline replies are allowed for any command.

In ABNF, server responses are:

Greeting = "220 " Domain [SP text] CRLF
Reply-line = Reply-code [SP text] CRLF

where "Greeting" appears only in the 220 response that announces that the server is opening its part of the connection.

An SMTP server SHOULD send only the reply codes listed in this document. An SMTP server SHOULD use the text shown in the examples whenever appropriate.

An SMTP client MUST determine its actions only by the reply code, not by the text (except for the "change of address" 251 and 551 and, if necessary, 220, 221, and 421 replies); in the general case, any text, including no text
at all (although senders SHOULD NOT send bare
codes), MUST be acceptable. The space (blank) following the reply code is considered part of the text. Whenever possible, a receiver-SMTP SHOULD test the first digit (severity indication) of the reply code.

The list of codes that appears below MUST NOT be construed as permanent. While the addition of new codes should be a rare and significant activity, with supplemental information in the textual part of the response being preferred, new codes may be added as the result of new Standards or Standards-track specifications. Consequently, a sender-SMTP MUST be prepared to handle codes not specified in this document and MUST do so by interpreting the first digit only.

4.2.1 Reply Code Severities and Theory

The three digits of the reply each have a special significance. The first digit denotes whether the response is good, bad or incomplete. An unsophisticated SMTP client, or one that receives
an unexpected
code, will be able to determine its next action (proceed as planned, redo, retrench, etc.) by examining this first digit. An SMTP client that wants to know approximately what kind of error occurred (e.g., mail system error, command syntax error) may examine the second digit. The third digit and any supplemental information that may be present is reserved for the finest gradation of information.

There are five values for the first digit of the reply code:

1yz Positive Preliminary reply
The command has been accepted, but the requested action is being held in abeyance, pending confirmation of the information in this reply. The SMTP client should send another command specifying

whether to continue or abort the action. Note: unextended SMTP does not have any commands that allow this type of reply, and so does not have continue or abort commands.

2yz Positive Completion reply
The requested action has been successfully completed. A new request may be initiated.

3yz Positive Intermediate reply
The command has been accepted, but the requested action is being held in abeyance, pending receipt of further information. The SMTP client should send another command specifying this information. This reply is used in command sequence groups (i.e., in DATA).

4yz Transient Negative Completion reply
The command was not accepted, and the requested action did not occur. However, the error condition is temporary and the action may be requested again. The sender should return to the beginning of the command sequence (if any). It is difficult to assign a meaning to "transient" when two different sites (receiver- and

sender-SMTP agents) must agree on the interpretation. Each reply in this category might have a different time value, but the SMTP client is encouraged to try again. A rule of thumb to determine whether a reply fits into the 4yz or the 5yz category (see below) is that replies are 4yz if they can be successful if repeated without any change in command form or in properties of the sender or receiver (that is, the command is repeated identically and the receiver does not put up a new implementation.)

5yz Permanent Negative Completion reply
The command was not accepted and the requested action did not occur. The SMTP client is discouraged from repeating the exact request (in the same sequence). Even some "permanent" error conditions can be corrected, so the human user may want to direct the SMTP client to reinitiate the command sequence by direct action at some point in the future (e.g., after the spelling has been changed, or the user has altered the account status).

The second digit encodes responses in specific categories:

x0z Syntax: These replies refer to syntax errors, syntactically correct commands that do not fit any functional category, and unimplemented or superfluous commands.

x1z Information: These are replies to requests for information, such as status or help.

x2z Connections: These are replies referring to the transmission channel.

x3z Unspecified.

x4z Unspecified.

x5z Mail system: These replies indicate the status of the receiver mail system vis-a-vis the requested transfer or other mail system action.

The third digit gives a finer gradation of meaning in each category specified by the second digit. The list of replies illustrates this. Each reply text is recommended rather than mandatory, and may even change according to the command with which it is associated. On the other hand, the reply codes must strictly follow the specifications in this section. Receiver implementations should not invent new codes for slightly different situations from the ones described here,
but rather adapt codes already defined.

For example, a command such as NOOP, whose successful execution does not offer the SMTP client any new information, will return a 250 reply. The reply is 502 when the command requests an unimplemented non-site-specific action. A refinement of that is the 504 reply for a command that is implemented, but that requests an unimplemented parameter.

The reply text may be longer than a single line; in these cases the complete text must be marked so the SMTP client knows when it can stop reading the reply. This requires a special format to indicate a multiple line reply.

The format for multiline replies requires that every line, except the last, begin with the reply code, followed immediately by a hyphen, "-" (also known as minus), followed by text. The last line will begin with the reply code, followed immediately by <SP>, optionally some text, and <CRLF>. As noted above, servers SHOULD send the <SP>
if subsequent text is not sent, but clients MUST be prepared for it to be omitted.

For example:

123-First line

123-Second line
123-234 text beginning with numbers
123 The last line

In many cases the SMTP client then simply needs to search for a line beginning with the reply code followed by <SP> or <CRLF> and ignore all preceding lines. In a few cases, there is important data for the client in the reply "text". The client will be able to identify these cases from the current context.

4.2.2 Reply Codes by Function Groups

500 Syntax error, command unrecognized
(This may include errors such as command line too long)
501 Syntax error in parameters or arguments
502 Command not implemented (see section 4.2.4)
503 Bad sequence of commands
504 Command parameter not implemented

211 System status, or system help reply
214 Help message
(Information on how to use the receiver or the meaning of a particular non-standard command; this reply is useful only to the human user)

220 <domain> Service ready
221 <domain> Service closing transmission channel
421 <domain> Service not available, closing transmission channel
(This may be a reply to any command if the service knows it must shut down)

250 Requested mail action okay, completed
251 User not local; will forward to <forward-path>
(See section 3.4)
252 Cannot VRFY user, but will accept message and attempt delivery
(See section 3.5.3)
450 Requested mail action not taken: mailbox unavailable
(e.g., mailbox busy)
550 Requested action not taken: mailbox unavailable
(e.g., mailbox not found, no access, or command rejected for policy reasons)
451 Requested action aborted: error in processing
551 User not local; please try <forward-path>
(See section 3.4)
452 Requested action not taken: insufficient system storage

552 Requested mail action aborted: exceeded storage allocation
553 Requested action not taken: mailbox name not allowed
(e.g., mailbox syntax incorrect)
354 Start mail input; end with <CRLF>.<CRLF>
554 Transaction failed (Or, in the case of a connection-opening
response, "No SMTP service here")

4.2.3 Reply Codes in Numeric Order

211 System status, or system help reply
214 Help message
(Information on how to use the receiver or the meaning of a
particular non-standard command; this reply is useful only
to the human user)
220 <domain> Service ready
221 <domain> Service closing transmission channel
250 Requested mail action okay, completed
251 User not local; will forward to <forward-path>
(See section 3.4)
252 Cannot VRFY user, but will accept message and attempt
delivery
(See
section 3.5.3)

354 Start mail input; end with <CRLF>.<CRLF>

421 <domain> Service not available, closing transmission channel
(This may be a reply to any command if the service knows it
must shut down)
450 Requested mail action not taken: mailbox unavailable
(e.g., mailbox busy)
451 Requested action aborted: local error in processing
452 Requested action not taken: insufficient system storage
500 Syntax error, command unrecognized
(This may include errors such as command line too long)
501 Syntax error in parameters or arguments
502 Command not implemented (see section 4.2.4)
503 Bad sequence of commands
504 Command parameter not implemented
550 Requested action not taken: mailbox unavailable
(e.g., mailbox not found, no access, or command rejected
for policy reasons)
551 User not local; please try <forward-path>
(See section 3.4)
552 Requested
mail action aborted: exceeded storage allocation
553 Requested action not taken: mailbox name not allowed
(e.g., mailbox syntax incorrect)

554 Transaction failed (Or, in the case of a connection-opening response, "No SMTP service here")

4.2.4 Reply Code 502

Questions have been raised as to when reply code 502 (Command not implemented) SHOULD be returned in preference to other codes. 502 SHOULD be used when the command is actually recognized by the SMTP server, but not implemented. If the command is not recognized, code 500 SHOULD be returned. Extended SMTP systems MUST NOT list capabilities in response to EHLO for which they will return 502 (or 500) replies.

4.2.5 Reply Codes After DATA and the Subsequent <CRLF>.<CRLF>

When an SMTP server returns a positive completion status (2yz code) after the DATA command is completed with <CRLF>.<CRLF>, it accepts responsibility for:

- delivering the message (if the recipient mailbox exists), or

- if attempts to deliver the message fail due to transient conditions, retrying delivery some reasonable number of times at intervals as specified in section 4.5.4.

- if attempts to deliver the message fail due to permanent conditions, or if repeated attempts to deliver the message fail due to transient conditions, returning appropriate notification to the sender of the original message (using the address in the SMTP MAIL command).

When an SMTP server returns a permanent error status (5yz) code after the DATA command is completed with <CRLF>.<CRLF>, it MUST NOT make any subsequent attempt to deliver that message. The SMTP client retains responsibility for delivery of that message and may either return it to the user or requeue it for a subsequent attempt (see section 4.5.4.1).

The user who originated the message SHOULD be able to interpret the return of a transient failure status (by mail message or otherwise) as a non-delivery indication, just as a permanent failure would be interpreted. I.e., if the client SMTP successfully handles these conditions, the user will not receive such a reply.

When an SMTP server returns a permanent error status (5yz) code after the DATA command is completely with <CRLF>.<CRLF>, it MUST NOT make

any subsequent attempt to deliver the message. As with temporary error status codes, the SMTP client retains responsibility for the message, but SHOULD not again attempt delivery to the same server without user review and intervention of the message.

4.3 Sequencing of Commands and Replies

4.3.1 Sequencing Overview

The communication between the sender and receiver is an alternating dialogue, controlled by the sender. As such, the sender issues a command and the receiver responds with a reply. Unless other arrangements are negotiated through service extensions, the sender MUST wait for this response before sending further commands.

One important reply is the connection greeting. Normally, a receiver will send a 220 "Service ready" reply when the connection is completed. The sender SHOULD wait for this greeting message before sending any commands.

Note: all the greeting-type replies have the official name (the fully-qualified primary domain name) of the server host as the first word following the reply code. Sometimes the host will have no meaningful name. See 4.1.3 for a discussion of alternatives in these situations.

For example,

```
220 ISIF.USC.EDU Service ready
or
220 mail.foo.com SuperSMTP v 6.1.2 Service ready
or
220 [10.0.0.1] Clueless host service ready
```

The table below lists alternative success and failure replies for each command. These SHOULD be strictly adhered to: a receiver may substitute text in the replies, but the meaning and action implied by the code numbers and by the specific command reply sequence cannot be altered.

4.3.2 Command-Reply Sequences

Each command is listed with its usual possible replies. The prefixes used before the possible replies are "I" for intermediate, "S" for success, and "E" for error. Since some servers may generate other replies under special circumstances, and to allow for future

extension, SMTP clients SHOULD, when possible, interpret only the first digit of the reply and MUST be prepared to deal with unrecognized reply codes by interpreting the first digit only. Unless extended using the mechanisms described in section 2.2, SMTP servers MUST NOT transmit reply codes to an SMTP client that are other than three digits or that do not start in a digit between 2 and 5 inclusive.

These sequencing rules and, in principle, the codes themselves, can be extended or modified by SMTP extensions offered by the server and accepted (requested) by the client.

In addition to the codes listed below, any SMTP command can return any of the following codes if the corresponding unusual circumstances are encountered:

500 For the "command line too long" case or if the command name was not recognized. Note that producing a "command not recognized" error in response to the required subset of these commands is a violation of this specification.

501 Syntax error in command or arguments. In order to provide for future extensions, commands that are specified in this document as not accepting arguments (DATA, RSET, QUIT) SHOULD return a 501 message if arguments are supplied in the absence of EHLO-advertised extensions.

421 Service shutting down and closing transmission channel

Specific sequences are:

CONNECTION ESTABLISHMENT
  S: 220
  E: 554
EHLO or HELO
  S: 250
  E: 504, 550
MAIL
  S: 250
  E: 552, 451, 452, 550, 553, 503
RCPT
  S: 250, 251 (but see section 3.4 for discussion of 251 and 551)

  E: 550, 551, 552, 553, 450, 451, 452, 503, 550
DATA
  I: 354 -> data -> S: 250
                E: 552, 554, 451, 452

E: 451, 554, 503
RSET
S: 250
VRFY
S: 250, 251, 252
E: 550, 551, 553, 502, 504
EXPN
S: 250, 252
E: 550, 500, 502, 504
HELP
S: 211, 214
E: 502, 504
NOOP
S: 250
QUIT
S: 221

4.4 Trace Information

When an SMTP server receives a message for delivery or further processing, it MUST insert trace ("time stamp" or "Received") information at the beginning of the message content, as discussed in section 4.1.1.4.

This line MUST be structured as follows:

- The FROM field, which MUST be supplied in an SMTP environment, SHOULD contain both (1) the name of the source host as presented in the EHLO command and (2) an address literal containing the IP address of the source, determined from the TCP connection.

- The ID field MAY contain an "@" as suggested in RFC 822, but this is not required.

- The FOR field MAY contain a list of <path> entries when multiple RCPT commands have been given. This may raise some security issues and is usually not desirable; see section 7.2.

An Internet mail program MUST NOT change a Received: line that was previously added to the message header. SMTP servers MUST prepend Received lines to messages; they MUST NOT change the order of existing lines or insert Received lines in any other location.

As the Internet grows, comparability of Received fields is important for detecting problems, especially slow relays. SMTP servers that create Received fields SHOULD use explicit offsets in the dates (e.g., -0800), rather than time zone names of any type. Local time

(with an offset) is preferred to UT when feasible. This formulation allows slightly more information about local circumstances to be specified. If UT is needed, the receiver need merely do some simple arithmetic to convert the values. Use of UT loses information about the time zone-location of the server. If it is desired to supply a time zone name, it SHOULD be included in a comment.

When the delivery SMTP server makes the "final delivery" of a message, it inserts a return-path line at the beginning of the mail data. This use of return-path is required; mail systems MUST support it. The return-path line preserves the information in the <reverse-path> from the MAIL command. Here, final delivery means the message has left the SMTP environment. Normally, this would mean it had been delivered to the destination user or an associated mail drop, but in some cases it may be further processed and transmitted by another mail system.

It is possible for the mailbox in the return path to be different from the actual sender's mailbox, for example, if error responses are to be delivered to a special error handling mailbox rather than to the message sender. When mailing lists are involved, this arrangement is common and useful as a means of directing errors to the list maintainer rather than the message originator.

The text above implies that the final mail data will begin with a return path line, followed by one or more time stamp lines. These lines will be followed by the mail data headers and body [32].

It is sometimes difficult for an SMTP server to determine whether or not it is making final delivery since forwarding or other operations may occur after the message is accepted for delivery. Consequently,

any further (forwarding, gateway, or relay) systems MAY remove the return path and rebuild the MAIL command as needed to ensure that exactly one such line appears in a delivered message.

A message-originating SMTP system SHOULD NOT send a message that already contains a Return-path header. SMTP servers performing a relay function MUST NOT inspect the message data, and especially not to the extent needed to determine if Return-path headers are present. SMTP servers making final delivery MAY remove Return-path headers before adding their own.

The primary purpose of the Return-path is to designate the address to which messages indicating non-delivery or other mail system failures

are to be sent. For this to be unambiguous, exactly one return path SHOULD be present when the message is delivered. Systems using RFC 822 syntax with non-SMTP transports SHOULD designate an unambiguous address, associated with the transport envelope, to which error reports (e.g., non-delivery messages) should be sent.

Historical note: Text in RFC 822 that appears to contradict the use of the Return-path header (or the envelope reverse path address from the MAIL command) as the destination for error messages is not applicable on the Internet. The reverse path address (as copied into the Return-path) MUST be used as the target of any mail containing delivery error messages.

In particular:

- a gateway from SMTP->elsewhere SHOULD insert a return-path header, unless it is known that the "elsewhere" transport also uses Internet domain addresses and maintains the envelope sender address separately.

- a gateway from elsewhere->SMTP SHOULD delete any return-path header present in the message, and either copy that information to the SMTP envelope or combine it with information present in the envelope of the other transport system to construct the reverse path argument to the MAIL command in the SMTP envelope.

The server must give special treatment to cases in which the processing following the end of mail data indication is only partially successful. This could happen if, after accepting several recipients and the mail data, the SMTP server finds that the mail data could be successfully delivered to some, but not all, of the recipients. In such cases, the response to the DATA command MUST be an OK reply. However, the SMTP server MUST compose and send an "undeliverable mail" notification message to the originator of the message.

A single notification listing all of the failed recipients or separate notification messages MUST be sent for each failed recipient. For economy of processing by the sender, the former is preferred when possible. All undeliverable mail notification messages are sent using the MAIL command (even if they result from processing the obsolete SEND, SOML, or SAML commands) and use a null return path as discussed in section 3.7.

The time stamp line and the return path line are formally defined as follows:

```
Return-path-line = "Return-Path:" FWS Reverse-path <CRLF>

Time-stamp-line = "Received:" FWS Stamp <CRLF>

Stamp = From-domain By-domain Opt-info ";"  FWS date-time

    ; where "date-time" is as defined in [32]
    ; but the "obs-" forms, especially
 two-digit
    ; years, are prohibited in SMTP and MUST NOT be used.

From-domain = "FROM" FWS Extended-Domain CFWS

By-domain = "BY" FWS Extended-Domain CFWS

Extended-Domain = Domain /
        ( Domain FWS "(" TCP-info ")" ) /
        ( Address-literal FWS "(" TCP-info ")" )

TCP-info = Address-literal / ( Domain FWS Address-literal )
    ; Information derived by server from TCP connection
    ; not client EHLO.

Opt-info = [Via] [With] [ID] [For]

Via = "VIA" FWS Link CFWS

With = "WITH" FWS Protocol CFWS

ID = "ID" FWS String / msg-id CFWS

For = "FOR" FWS 1*( Path / Mailbox ) CFWS

Link = "TCP" / Addtl-Link
Addtl-Link = Atom
    ; Additional standard names for links are registered with the
       ; Internet Assigned Numbers Authority (IANA).  "Via" is
       ; primarily of value with non-Internet transports.  SMTP

       ; servers SHOULD NOT use unregistered names.
Protocol = "ESMTP" / "SMTP" / Attdl-Protocol
Attdl-Protocol = Atom
    ; Additional standard
 names for protocols are registered with the
       ; Internet Assigned Numbers Authority (IANA).  SMTP servers
       ; SHOULD NOT use unregistered names.
```

4.5 Additional Implementation Issues

4.5.1 Minimum Implementation

In order to make SMTP workable, the following minimum implementation is required for all receivers. The following commands MUST be supported to conform to this specification:

EHLO
HELO
MAIL
RCPT
DATA
RSET
NOOP
QUIT
VRFY

Any system that includes an SMTP server supporting mail relaying or delivery MUST support the reserved mailbox "postmaster" as a case-insensitive local name. This postmaster address is not strictly necessary if the server always returns 554 on connection opening (as described in section 3.1). The requirement to accept mail for postmaster implies that RCPT commands which specify a mailbox for postmaster at any of the domains for which the SMTP server provides mail service, as well as the special case of "RCPT TO:<Postmaster>" (with no domain specification), MUST be supported.

SMTP systems are expected to make every reasonable effort to accept mail directed to Postmaster from any other system on the Internet. In extreme cases --such as to contain a denial of service attack or other breach of security-- an SMTP server may block mail directed to Postmaster. However, such arrangements SHOULD be narrowly tailored so as to avoid blocking messages which are not part of such attacks.

4.5.2 Transparency

Without some provision for data transparency, the character sequence "<CRLF>.<CRLF>" ends the mail text and cannot be sent by the user. In general, users are not aware of such "forbidden" sequences. To

allow all user composed text to be transmitted transparently, the following procedures are used:

- Before sending a line of mail text, the SMTP client checks the first character of the line.
If it is a period, one additional
period is inserted at the beginning of the line.

- When a line of mail text is received by the SMTP server, it checks the line. If the line is composed of a single period, it is treated as the end of mail indicator. If the first character is a period and there are other characters on the line, the first character is deleted.

The mail data may contain any of the 128 ASCII characters. All characters are to be delivered to the recipient's mailbox, including spaces, vertical and horizontal tabs, and other control characters. If the transmission channel provides an 8-bit byte (octet) data stream, the 7-bit ASCII codes are transmitted right justified in the octets, with the high order bits cleared to zero. See 3.7 for special treatment of these conditions in SMTP systems serving a relay function.

In some systems it may be necessary to transform the data as it is received and stored.
This may be necessary for hosts that use a different character set than ASCII as their local character set, that store data in records rather than strings, or which use special character sequences as delimiters inside mailboxes. If such transformations are necessary, they MUST be reversible, especially if they are applied to mail being relayed.

4.5.3 Sizes and Timeouts

4.5.3.1 Size limits and minimums

There are several objects that have required minimum/maximum sizes. Every implementation MUST be able to receive objects of at least these sizes. Objects larger than these sizes SHOULD be avoided when possible. However, some Internet mail constructs such as encoded X.400 addresses [16] will often require larger objects: clients MAY attempt to transmit these, but MUST be prepared for a server to reject them if they cannot be handled by it. To the maximum extent possible, implementation techniques which impose no limits on the length of these
objects should be used.

local-part
The maximum total length of a user name or other local-part is 64 characters.

domain
The maximum total length of a domain name or number is 255 characters.

path

The maximum total length of a reverse-path or forward-path is 256 characters (including the punctuation and element separators).

command line

The maximum total length of a command line including the command word and the <CRLF> is 512 characters. SMTP extensions may be used to increase this limit.

reply line

The maximum total length of a reply line including the reply code and the <CRLF> is 512 characters. More information may be conveyed through multiple-line replies.

text line

The maximum total length of a text line including the <CRLF> is 1000 characters (not counting the leading dot duplicated for transparency). This number may be increased by the use of SMTP Service Extensions.

message content

The maximum total length of a message content (including any message headers as well as the message body) MUST BE at least 64K octets. Since the introduction of Internet standards for multimedia mail [12], message lengths on the Internet have grown dramatically, and message size restrictions should be avoided if at all possible. SMTP server systems that must impose restrictions SHOULD implement the "SIZE" service extension [18], and SMTP client systems that will send large messages SHOULD utilize it when possible.

recipients buffer

The minimum total number of recipients that must be buffered is 100 recipients. Rejection of messages (for excessive recipients) with fewer than 100 RCPT commands is a violation of this specification. The general principle that relaying SMTP servers MUST NOT, and delivery SMTP servers SHOULD NOT, perform validation tests on message
headers suggests that rejecting a message based on the total number of recipients shown in header fields is to be discouraged. A server which imposes a limit on the number of recipients MUST behave in an orderly fashion, such as to reject additional addresses over its limit rather than silently discarding addresses previously accepted. A client that needs to

deliver a message containing over 100 RCPT commands SHOULD be prepared to transmit in 100-recipient "chunks" if the server declines to accept more than 100 recipients in a single message.

Errors due to exceeding these limits may be reported by using the reply codes. Some examples of reply codes are:

500 Line too long.
or
501 Path too long
or
452 Too many recipients (see below)
or
552 Too much mail data.

RFC 821 [30] incorrectly listed the error where an SMTP server exhausts its implementation limit on the number of RCPT commands ("too many recipients") as having reply code 552. The correct reply code for this condition is 452. Clients SHOULD treat a 552 code in this case as a temporary, rather than permanent, failure so the logic below works.

When a conforming SMTP server encounters this condition, it has at least 100 successful RCPT commands in its recipients buffer. If the server is able to accept the message, then at least these 100 addresses will be removed from the SMTP client's queue. When the client attempts retransmission of those addresses which received 452 responses, at least 100 of these will be able to fit in the SMTP server's recipients buffer. Each retransmission attempt which is able to deliver anything will be able to dispose of at least 100 of these recipients.

If an SMTP server has an implementation limit on the number of RCPT commands and this limit is exhausted, it MUST use a response code of 452 (but the client SHOULD also be prepared
for a 552, as noted
above). If the server has a configured site-policy limitation on the number of RCPT commands, it MAY instead use a 5XX response code. This would be most appropriate if the policy limitation was intended to apply if the total recipient count for a particular message body were enforced even if that message body was sent in multiple mail transactions.

4.5.3.2 Timeouts

An SMTP client MUST provide a timeout mechanism. It MUST use per-command timeouts rather than somehow trying to time the entire mail transaction. Timeouts SHOULD be easily reconfigurable, preferably without recompiling the SMTP code. To implement this, a timer is set

for each SMTP command and for each buffer of the data transfer. The

latter means that the overall timeout is inherently proportional to the size of the message.

Based on extensive experience with busy mail-relay hosts, the minimum per-command timeout values SHOULD be as follows:

Initial
220 Message: 5 minutes
An SMTP client process needs to distinguish between a failed TCP connection and a delay in receiving the initial 220 greeting message. Many SMTP servers accept a TCP connection but delay delivery of the 220 message until their system load permits more mail to be processed.

MAIL Command: 5 minutes

RCPT Command: 5 minutes
A longer timeout is required if processing of mailing lists and aliases is not deferred until after the message was accepted.

DATA Initiation: 2 minutes
This is while awaiting the "354 Start Input" reply to a DATA command.

Data Block: 3 minutes
This is while awaiting the completion of each TCP SEND call transmitting a chunk of data.

DATA Termination: 10 minutes.
This is while awaiting the "250 OK" reply. When the receiver gets the final period terminating the message data, it typically performs processing to deliver the message to a user mailbox.
A
spurious timeout at this point would be very wasteful and would typically result in delivery of multiple copies of the message, since it has been successfully sent and the server has accepted responsibility for delivery. See section 6.1 for additional discussion.

An SMTP server SHOULD have a timeout of at least 5 minutes while it is awaiting the next command from the sender.

4.5.4 Retry Strategies

The common structure of a host SMTP implementation includes user mailboxes, one or more areas for queuing messages in transit, and one or more daemon processes for sending and receiving mail. The exact structure will vary depending on the needs of the users on the host

and the number and size of mailing lists supported by the host. We describe several optimizations that have proved helpful, particularly for mailers supporting high traffic levels.

Any queuing strategy MUST include timeouts on all activities on a per-command
basis. A queuing strategy MUST NOT send error messages in response to error messages under any circumstances.

4.5.4.1 Sending Strategy

The general model for an SMTP client is one or more processes that periodically attempt to transmit outgoing mail. In a typical system, the program that composes a message has some method for requesting immediate attention for a new piece of outgoing mail, while mail that cannot be transmitted immediately MUST be queued and periodically retried by the sender. A mail queue entry will include not only the message itself but also the envelope information.

The sender MUST delay retrying a particular destination after one attempt has failed. In general, the retry interval SHOULD be at least 30 minutes; however, more sophisticated and variable strategies will be beneficial when the SMTP client can determine the reason for non-delivery.

Retries continue until the message is transmitted or the sender gives
up; the give-up time generally needs to be at least 4-5 days. The parameters to the retry algorithm MUST be configurable.

A client SHOULD keep a list of hosts it cannot reach and corresponding connection timeouts, rather than just retrying queued mail items.

Experience suggests that failures are typically transient (the target system or its connection has crashed), favoring a policy of two connection attempts in the first hour the message is in the queue, and then backing off to one every two or three hours.

The SMTP client can shorten the queuing delay in cooperation with the SMTP server. For example, if mail is received from a particular address, it is likely that mail queued for that host can now be sent. Application of this principle may, in many cases, eliminate the requirement for an explicit "send queues now" function such as ETRN [9].

The strategy may be further modified as a result of multiple

addresses per host (see
below) to optimize delivery time vs. resource
usage.

An SMTP client may have a large queue of messages for each
unavailable destination host. If all of these messages were retried
in every retry cycle, there would be excessive Internet overhead and
the sending system would be blocked for a long period. Note that an
SMTP client can generally determine that a delivery attempt has
failed only after a timeout of several minutes and even a one-minute
timeout per connection will result in a very large delay if retries
are repeated for dozens, or even hundreds, of queued messages to the
same host.

At the same time, SMTP clients SHOULD use great care in caching
negative responses from servers. In an extreme case, if EHLO is
issued multiple times during the same SMTP connection, different
answers may be returned by the server. More significantly, 5yz
responses to the MAIL command MUST NOT be cached.

When a mail message is to be delivered
to multiple recipients, and
the SMTP server to which a copy of the message is to be sent is the
same for multiple recipients, then only one copy of the message
SHOULD be transmitted. That is, the SMTP client SHOULD use the
command sequence: MAIL, RCPT, RCPT,... RCPT, DATA instead of the
sequence: MAIL, RCPT, DATA, ..., MAIL, RCPT, DATA. However, if there
are very many addresses, a limit on the number of RCPT commands per
MAIL command MAY be imposed. Implementation of this efficiency
feature is strongly encouraged.

Similarly, to achieve timely delivery, the SMTP client MAY support
multiple concurrent outgoing mail transactions. However, some limit
may be appropriate to protect the host from devoting all its
resources to mail.

4.5.4.2 Receiving Strategy

The SMTP server SHOULD attempt to keep a pending listen on the SMTP
port at all times. This requires the support of multiple incoming
TCP connections for SMTP. Some limit MAY be imposed
but servers that
cannot handle more than one SMTP transaction at a time are not in
conformance with the intent of this specification.

As discussed above, when the SMTP server receives mail from a
particular host address, it could activate its own SMTP queuing
mechanisms to retry any mail pending for that host address.

4.5.5 Messages with a null reverse-path

There are several types of notification messages which are required by existing and proposed standards to be sent with a null reverse path, namely non-delivery notifications as discussed in section 3.7,

other kinds of Delivery Status Notifications (DSNs) [24], and also Message Disposition Notifications (MDNs) [10]. All of these kinds of messages are notifications about a previous message, and they are sent to the reverse-path of the previous mail message. (If the delivery of such a notification message fails, that usually indicates a problem with the mail system of the host to which the notification message is addressed. For this reason, at some hosts the MTA is set up to forward such failed notification messages to someone who is able to fix problems with the mail system, e.g., via the postmaster alias.)

All other types of messages (i.e., any message which is not required by a standards-track RFC to have a null reverse-path) SHOULD be sent with with a valid, non-null reverse-path.

Implementors of automated email processors should be careful to make sure that the various kinds of messages with null reverse-path are handled correctly, in particular such systems SHOULD NOT reply to messages with null reverse-path.

5. Address Resolution and Mail Handling

Once an SMTP client lexically identifies a domain to which mail will be delivered for processing (as described in sections 3.6 and 3.7), a DNS lookup MUST be performed to resolve the domain name [22]. The names are expected to be fully-qualified domain names (FQDNs): mechanisms for inferring FQDNs from partial names or local aliases are outside of this specification and, due to a history of problems, are generally discouraged. The lookup first attempts to locate an MX record associated with the name. If a CNAME record is found instead, the resulting name is processed as if it were the initial name. If no MX records are found, but an A RR is found, the A RR is treated as if it was associated with an implicit MX RR, with a preference of 0, pointing to that host. If one or more MX RRs are found for a given name, SMTP systems MUST NOT utilize any A RRs associated with that name unless they are located using the MX RRs; the "implicit MX" rule above applies only if there are no MX records present. If MX records are present, but none of them are usable, this situation MUST be reported as an error.

When the lookup succeeds, the mapping can result in a list of alternative delivery addresses rather than a single address, because of multiple MX records, multihoming, or both. To provide reliable mail transmission, the SMTP client MUST be able to try (and retry) each of the relevant addresses in this list in order, until a delivery attempt succeeds. However, there MAY also be a configurable limit on the number of alternate addresses that can be tried. In any case, the SMTP client SHOULD try at least two addresses.

Two types of information is used to rank the host addresses: multiple MX records, and multihomed hosts.

Multiple MX records contain a preference indication that MUST be used in sorting (see below). Lower numbers are more preferred than higher ones. If there are multiple destinations with the same preference and there is no clear reason to favor one (e.g., by recognition of an easily-reached address), then the sender-SMTP MUST randomize them to spread the load across multiple mail exchangers for a specific organization.

The destination host (perhaps taken from the preferred MX record) may be multihomed, in which case the domain name resolver will return a list of alternative IP addresses. It is the responsibility of the domain name resolver interface to have ordered this list by decreasing preference if necessary, and SMTP MUST try them in the order presented.

Although the capability to try multiple alternative addresses is required, specific installations may want to limit or disable the use of alternative addresses. The question of whether a sender should attempt retries using the different addresses of a multihomed host has been controversial. The main argument for using the multiple addresses is that it maximizes the probability of timely delivery, and indeed sometimes the probability of any delivery; the counter-argument is that it may result in unnecessary resource use. Note that resource use is also strongly determined by the sending strategy discussed in section 4.5.4.1.

If an SMTP server receives a message with a destination for which it is a designated Mail eXchanger, it MAY relay the message (potentially after having rewritten the MAIL FROM and/or RCPT TO addresses), make final delivery of the message, or hand it off using some mechanism outside the SMTP-provided transport environment. Of course, neither of the latter require that the list of MX records be examined further.

If it determines that it should relay the message without rewriting the address, it MUST sort the MX records to determine candidates for delivery. The records are first ordered by preference, with the lowest-numbered records being most preferred. The relay host MUST then inspect the list for any of the names or addresses by which it might be known in mail transactions. If a matching record is found, all records at that preference level and higher-numbered ones MUST be discarded from consideration. If there are no records left at that point, it is an error condition, and the message MUST be returned as undeliverable. If records do remain, they SHOULD be tried, best preference first, as described above.

6. Problem Detection and Handling

6.1 Reliable Delivery and Replies by Email

When the receiver-SMTP accepts a piece of mail (by sending a "250 OK" message in response to DATA), it is accepting responsibility for delivering or relaying the message. It must take this responsibility seriously. It MUST NOT lose the message for frivolous reasons, such as because the host later crashes or because of a predictable resource shortage.

If there is a delivery failure after acceptance of a message, the receiver-SMTP MUST formulate and mail a notification message. This notification MUST be sent using a null ("<>") reverse path in the envelope. The recipient of this notification MUST be the address from the envelope return path (or the Return-Path: line). However, if this address is null ("<>"), the receiver-SMTP MUST NOT send a notification. Obviously, nothing in this section can or should prohibit local decisions (i.e., as part of the same system environment as the receiver-SMTP) to log or otherwise transmit information about null address events locally if that is desired. If the address is an explicit source route, it MUST be stripped down to its final hop.

For example, suppose that an error notification must be sent for a message that arrived with:

```
MAIL FROM:<@a,@b:user@d>
```

The notification message MUST be sent using:

```
RCPT TO:<user@d>
```

Some delivery failures after the message is accepted by SMTP will be unavoidable. For example, it may be impossible for the receiving SMTP server to validate all the delivery addresses in RCPT command(s) due to a "soft" domain system error, because the target is a mailing list (see earlier discussion of RCPT), or because the server is acting as a relay and has no immediate access to the delivering system.

To avoid receiving duplicate messages as the result of timeouts, a receiver-SMTP MUST seek to minimize the time required to respond to the final <CRLF>.<CRLF> end of data indicator. See RFC 1047 [28] for a discussion of this problem.

6.2 Loop Detection

Simple counting of the number of "Received:" headers in a message has proven to be an effective, although rarely optimal, method of detecting loops in mail systems. SMTP servers using this technique SHOULD use a large rejection threshold, normally at least 100 Received entries. Whatever mechanisms are used, servers MUST contain provisions for detecting and stopping trivial loops.

6.3 Compensating for Irregularities

Unfortunately, variations, creative interpretations, and outright violations of Internet mail protocols do occur; some would suggest that they occur quite frequently. The debate as to whether a well-behaved SMTP receiver or relay should reject a malformed message, attempt to pass it on unchanged, or attempt to repair it to increase the odds of successful delivery (or subsequent reply) began almost with the dawn of structured network mail and shows no signs of abating. Advocates of rejection claim that attempted repairs are rarely completely adequate and that rejection of bad messages is the only way to get the offending software repaired. Advocates of "repair" or "deliver no matter what" argue that users prefer that mail go through it if at all possible and that there are significant market pressures in that direction. In practice, these market pressures may be more important to particular vendors than strict conformance to the standards, regardless of the preference of the actual developers.

The problems associated with ill-formed messages were exacerbated by the introduction of the split-UA mail reading protocols [3, 26, 5, 21].
These protocols have encouraged the use of SMTP as a posting protocol, and SMTP servers as relay systems for these client hosts (which are often only intermittently connected to the Internet).

Historically, many of those client machines lacked some of the mechanisms and information assumed by SMTP (and indeed, by the mail format protocol [7]). Some could not keep adequate track of time; others had no concept of time zones; still others could not identify their own names or addresses; and, of course, none could satisfy the assumptions that underlay RFC 822's conception of authenticated addresses.

In response to these weak SMTP clients, many SMTP systems now complete messages that are delivered to them in incomplete or incorrect form. This strategy is generally considered appropriate when the server can identify or authenticate the client, and there are prior agreements between them. By contrast, there is at best great concern about fixes applied by a relay or delivery SMTP server that has little or no knowledge of the user or client machine.

The following changes to a message being processed MAY be applied when necessary by an originating SMTP server, or one used as the target of SMTP as an initial posting protocol:

- Addition of a message-id field when none appears

- Addition of a date, time or time zone when none appears

- Correction of addresses to proper FQDN format

The less information the server has about the client, the less likely these changes are to be correct and the more caution and conservatism should be applied when considering whether or not to perform fixes and how. These changes MUST NOT be applied by an SMTP server that provides an intermediate relay function.

In all cases, properly-operating clients supplying correct information are preferred to corrections by the SMTP server. In all cases, documentation of actions performed by the servers (in trace fields and/or header comments) is strongly encouraged.

7. Security Considerations

7.1 Mail Security and Spoofing

SMTP mail is inherently insecure in that it is feasible for even fairly casual users to negotiate directly with receiving and relaying SMTP servers and create messages that will trick a naive recipient into believing that they came from somewhere else. Constructing such a message so that the "spoofed" behavior cannot be detected by an

expert is somewhat more difficult, but not sufficiently so as to be a deterrent to someone who is determined and knowledgeable. Consequently, as knowledge of Internet mail increases, so does the knowledge that SMTP mail inherently cannot be authenticated, or integrity checks provided, at the transport level. Real mail security lies only in end-to-end methods involving the message bodies, such as those which use digital signatures (see [14] and, e.g., PGP [4] or S/MIME [31]).

Various protocol extensions and configuration options that provide authentication at the transport level (e.g., from an SMTP client to an SMTP server) improve somewhat on the traditional situation described above. However, unless they are accompanied by careful handoffs of responsibility in a carefully-designed trust environment, they remain inherently weaker than end-to-end mechanisms which use digitally signed messages rather than depending on the integrity of the transport system.

Efforts to make it more difficult for users to set envelope return path and header "From" fields to point to valid addresses other than their own are largely misguided: they frustrate legitimate applications in which mail is sent by one user on behalf of another or in which error (or normal) replies should be directed to a special address. (Systems that provide convenient ways for users to alter these fields on a per-message basis should accept to establish a primary and permanent mailbox address for the user so that Sender fields within the message data can be generated sensibly.)

This specification does not further address the authentication issues associated with SMTP other than to advocate that useful functionality not be disabled in the hope of providing some small margin of protection against an ignorant user who is trying to fake mail.

7.2 "Blind" Copies

Addresses that do not appear in the message headers may appear in the RCPT commands to an SMTP server for a number of reasons. The two most common involve the use of a mailing address as a "list exploder" (a single address that resolves into multiple addresses) and the appearance of "blind copies". Especially when more than one RCPT command is present, and in order to avoid defeating some of the purpose of these mechanisms, SMTP clients and servers SHOULD NOT copy the full set of RCPT command arguments into the headers, either as part of trace headers or as informational or private-extension headers. Since this rule is often violated in practice, and cannot

be enforced, sending SMTP systems that are aware of "bcc" use MAY find it helpful to send each blind copy as a separate message transaction containing only a single RCPT command.

There is no inherent relationship between either "reverse" (from MAIL, SAML, etc., commands) or "forward" (RCPT) addresses in the SMTP transaction ("envelope") and the addresses in the headers. Receiving systems SHOULD NOT attempt to deduce such relationships and use them to alter the headers of the message for delivery. The popular "Apparently-to" header is a violation of this principle as well as a common source of unintended information disclosure and SHOULD NOT be used.

7.3 VRFY, EXPN, and Security

As discussed in section 3.5, individual sites may want to disable either or both of VRFY or EXPN for security reasons. As a corollary to the above,
implementations that permit this MUST NOT appear to have verified addresses that are not, in fact, verified. If a site

disables these commands for security reasons, the SMTP server MUST return a 252 response, rather than a code that could be confused with successful or unsuccessful verification.

Returning a 250 reply code with the address listed in the VRFY command after having checked it only for syntax violates this rule. Of course, an implementation that "supports" VRFY by always returning 550 whether or not the address is valid is equally not in conformance.

Within the last few years, the contents of mailing lists have become popular as an address information source for so-called "spammers." The use of EXPN to "harvest" addresses has increased as list administrators have installed protections against inappropriate uses of the lists themselves. Implementations SHOULD still provide support for EXPN, but sites SHOULD carefully evaluate
the tradeoffs.
As authentication mechanisms are introduced into SMTP, some sites may choose to make EXPN available only to authenticated requestors.

7.4 Information Disclosure in Announcements

There has been an ongoing debate about the tradeoffs between the debugging advantages of announcing server type and version (and, sometimes, even server domain name) in the greeting response or in response to the HELP command and the disadvantages of exposing information that might be useful in a potential hostile attack. The

utility of the debugging information is beyond doubt. Those who argue for making it available point out that it is far better to actually secure an SMTP server rather than hope that trying to conceal known vulnerabilities by hiding the server's precise identity will provide more protection. Sites are encouraged to evaluate the tradeoff with that issue in mind; implementations are strongly encouraged to minimally provide for making type and version information available in some way to other network hosts.

7.5 Information Disclosure in Trace Fields

In some circumstances, such as when mail originates from within a LAN whose hosts are not directly on the public Internet, trace ("Received") fields produced in conformance with this specification may disclose host names and similar information that would not normally be available. This ordinarily does not pose a problem, but sites with special concerns about name disclosure should be aware of it. Also, the optional FOR clause should be supplied with caution or not at all when multiple recipients are involved lest it inadvertently disclose the identities of "blind copy" recipients to others.

7.6 Information Disclosure in Message Forwarding

As discussed in section 3.4, use of the 251 or 551 reply codes to identify the replacement address associated with a mailbox may inadvertently disclose sensitive information. Sites that are concerned about those issues should ensure that they select and configure servers appropriately.

7.7 Scope of Operation of SMTP Servers

It is a well-established principle that an SMTP server may refuse to accept mail for any operational or technical reason that makes sense to the site providing the server. However, cooperation among sites and installations makes the Internet possible. If sites take excessive advantage of the right to reject traffic, the ubiquity of email availability (one of the strengths of the Internet) will be threatened; considerable care should be taken and balance maintained if a site decides to be selective about the traffic it will accept and process.

In recent years, use of the relay function through arbitrary sites has been used as part of hostile efforts to hide the actual origins of mail. Some sites have decided to limit the use of the relay function to known or identifiable sources, and implementations

SHOULD
provide the capability to perform this type of filtering. When mail is rejected for these or other policy reasons, a 550 code SHOULD be used in response to EHLO, MAIL, or RCPT as appropriate.

8. IANA Considerations

IANA will maintain three registries in support of this specification. The first consists of SMTP service extensions with the associated keywords, and, as needed, parameters and verbs. As specified in section 2.2.2, no entry may be made in this registry that starts in an "X". Entries may be made only for service extensions (and associated keywords, parameters, or verbs) that are defined in standards-track or experimental RFCs specifically approved by the IESG for this purpose.

The second registry consists of "tags" that identify forms of domain literals other than those for IPv4 addresses (specified in RFC 821 and in this document) and IPv6 addresses (specified in this document). Additional literal types require standardization before being used; none are anticipated at this time.

The third, established by RFC 821 and renewed by this specification, is a registry of link and protocol identifiers to be used with the "via" and "with" subclauses of the time stamp ("Received: header")

described in section 4.4. Link and protocol identifiers in addition to those specified in this document may be registered only by standardization or by way of an RFC-documented, IESG-approved, Experimental protocol extension.

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11. Acknowledgments

Many people worked long and hard on the many iterations of this document. There was wide-ranging debate in the IETF DRUMS Working Group, both on its mailing list and in face to face discussions, about many technical issues and the role of a revised standard for Internet mail transport, and many contributors helped form the wording in this specification. The hundreds of participants in the many discussions since RFC 821 was produced are too numerous to mention, but they all helped this document become what it is.

APPENDICES

A. TCP Transport Service

The TCP connection supports the transmission of 8-bit bytes. The SMTP data is 7-bit ASCII characters. Each character is transmitted as an 8-bit byte with the high-order bit cleared to zero. Service extensions may modify this rule to permit transmission of full 8-bit data bytes as part of the message body, but not in SMTP commands or responses.

B. Generating SMTP Commands from RFC 822 Headers

Some systems use RFC 822 headers (only) in a mail submission protocol, or otherwise generate SMTP commands from RFC 822 headers when such a message is handed to an MTA from a UA. While the MTA-UA protocol is a private matter, not covered by any Internet Standard, there are problems with this approach. For example, there have been repeated problems with proper handling of "bcc" copies and

redistribution lists when information that conceptually belongs to a mail envelopes is not separated early in processing from header information (and kept separate).

It is recommended that the UA provide its initial ("submission client") MTA with an envelope separate from the message itself. However, if the envelope is not supplied, SMTP commands SHOULD be generated as follows:

1. Each recipient address from a TO, CC, or BCC header field SHOULD be copied to a RCPT command (generating multiple message copies if that is required for queuing or delivery). This includes any addresses listed in a RFC 822 "group". Any BCC fields SHOULD then be removed from the headers. Once this process is completed, the remaining headers SHOULD be checked to verify that at least one To:, Cc:, or Bcc: header remains. If none do, then a bcc: header with no additional information SHOULD be inserted as specified in [32].

2. The return address in the MAIL command SHOULD, if possible, be derived from the system's identity for the submitting (local) user, and the "From:" header field otherwise. If there is a system identity available, it SHOULD also be copied to the Sender header field if it is different from the address in the From header field. (Any Sender field that was already there SHOULD be removed.) Systems may provide a way for submitters to override the envelope return address, but may want to restrict its use to privileged users. This will not prevent mail forgery, but may lessen its incidence; see section 7.1.

When an MTA is being used in this way, it bears responsibility for ensuring that the message being transmitted is valid. The mechanisms for checking that validity, and for handling (or returning) messages that are not valid at the time of arrival, are part of the MUA-MTA interface and not covered by this specification.

A submission protocol based on Standard RFC 822 information alone MUST NOT be used to gateway a message from a foreign (non-SMTP) mail system into an SMTP environment. Additional information to construct an envelope must come from some source in the other environment, whether supplemental headers or the foreign system's envelope.

Attempts to gateway messages using only their header "to" and "cc" fields have repeatedly caused mail loops and other behavior adverse to the proper

functioning of the Internet mail environment. These problems have been especially common when the message originates from an Internet mailing list and is distributed into the foreign environment using envelope information. When these messages are then processed by a header-only remailer, loops back to the Internet environment (and the mailing list) are almost inevitable.

C. Source Routes

Historically, the <reverse-path> was a reverse source routing list of hosts and a source mailbox. The first host in the <reverse-path> SHOULD be the host sending the MAIL command. Similarly, the <forward-path> may be a source routing lists of hosts and a destination mailbox. However, in general, the <forward-path> SHOULD contain only a mailbox and domain name, relying on the domain name system to supply routing information if required. The use of source routes is deprecated; while servers MUST be prepared to receive and handle them as discussed in section 3.3 and F.2, clients SHOULD NOT transmit them and this section was included only to provide context.

For relay purposes, the forward-path may be a source route of the form "@ONE,@TWO:JOE@THREE", where ONE, TWO, and THREE MUST BE fully-qualified domain names. This form is used to emphasize the distinction between an address and a route. The mailbox is an absolute address, and the route is information about how to get there. The two concepts should not be confused.

If source routes are used, RFC 821 and the text below should be consulted for the mechanisms for constructing and updating the forward- and reverse-paths.

The SMTP server transforms the command arguments by moving its own identifier (its domain name or that of any domain for which it is acting as a mail exchanger), if it appears, from the forward-path to the beginning of the reverse-path.

Notice that the forward-path and reverse-path appear in the SMTP commands and replies, but not necessarily in the message. That is, there is no need for these paths and especially this syntax to appear in the "To:" , "From:", "CC:", etc. fields of the message header. Conversely, SMTP servers MUST NOT derive final message delivery information from message header fields.

When the list of hosts is present, it is a "reverse" source route and indicates that the mail was relayed through each host on the list (the first host in the list was the most recent relay). This list is

used as a source route to return non-delivery notices to the sender. As each relay host adds itself to the beginning of the list, it MUST use its name as known in the transport environment to which it is relaying the mail rather than that of the transport environment from which the mail came (if they are different).

D. Scenarios

This section presents complete scenarios of several types of SMTP sessions. In the examples, "C:" indicates what is said by the SMTP client, and "S:" indicates what is said by the SMTP server.

D.1 A Typical SMTP Transaction Scenario

This SMTP example shows mail sent by Smith at host bar.com, to Jones, Green, and Brown at host foo.com. Here we assume that host bar.com contacts host foo.com directly. The mail is accepted for Jones and Brown. Green does not have a mailbox at host foo.com.

```
S: 220 foo.com Simple Mail Transfer Service Ready
C: EHLO bar.com
S: 250-foo.com greets bar.com
S: 250-8BITMIME
S: 250-SIZE
S: 250-DSN
S: 250 HELP
C: MAIL FROM:<Smith@bar.com>
S: 250 OK
C: RCPT TO:<Jones@foo.com>
S: 250 OK
C: RCPT TO:<Green@foo.com>
S: 550 No such user here
C: RCPT TO:<Brown@foo.com>

S: 250 OK
C: DATA
S: 354 Start mail input; end with <CRLF>.<CRLF>
C: Blah blah blah...
C: ...etc. etc. etc.
C: .
S: 250 OK
C: QUIT
S: 221 foo.com Service closing transmission channel
```

D.2 Aborted SMTP Transaction Scenario

S: 220 foo.com Simple Mail Transfer Service Ready
C: EHLO bar.com
S: 250-foo.com greets bar.com
S: 250-8BITMIME
S: 250-SIZE
S: 250-DSN
S: 250 HELP
C: MAIL FROM:<Smith@bar.com>
S: 250 OK
C: RCPT TO:<Jones@foo.com>
S: 250 OK
C: RCPT TO:<Green@foo.com>
S: 550 No such user here
C: RSET
S: 250 OK
C: QUIT
S: 221 foo.com Service closing transmission channel

D.3 Relayed Mail Scenario

Step 1 -- Source Host to Relay Host

S: 220 foo.com Simple Mail Transfer Service Ready
C: EHLO bar.com
S: 250-foo.com greets bar.com
S: 250-8BITMIME
S: 250-SIZE
S: 250-DSN
S: 250 HELP
C: MAIL FROM:<JQP@bar.com>
S: 250 OK
C: RCPT TO:<@foo.com:Jones@XYZ.COM>
S: 250 OK
C: DATA
S: 354 Start mail input; end with <CRLF>.<CRLF>
C: Date: Thu, 21 May 1998 05:33:29 -0700

C: From: John Q. Public <JQP@bar.com>
C: Subject: The Next Meeting of the Board
C: To: Jones@xyz.com
C:
C: Bill:
C: The next meeting of the board of directors will be
C: on Tuesday.
C: John.
C: .
S: 250 OK

C: QUIT
S: 221 foo.com Service closing transmission channel

Step 2 -- Relay Host to Destination Host

S: 220 xyz.com Simple Mail Transfer Service Ready
C: EHLO foo.com
S: 250 xyz.com is on the air
C: MAIL FROM:<@foo.com:JQP@bar.com>
S: 250 OK
C: RCPT TO:<Jones@XYZ.COM>
S: 250 OK
C: DATA
S: 354 Start mail input; end with <CRLF>.<CRLF>
C: Received: from bar.com by foo.com ; Thu, 21 May 1998
C: 05:33:29 -0700
C: Date: Thu, 21 May 1998 05:33:22 -0700
C: From: John Q. Public <JQP@bar.com>
C: Subject: The Next Meeting of the Board
C: To: Jones@xyz.com
C:
C: Bill:
C: The next meeting
of the board of directors will be
C: on Tuesday.
C: John.
C: .
S: 250 OK
C: QUIT
S: 221 foo.com Service closing transmission channel

D.4 Verifying and Sending Scenario

S: 220 foo.com Simple Mail Transfer Service Ready
C: EHLO bar.com
S: 250-foo.com greets bar.com
S: 250-8BITMIME
S: 250-SIZE
S: 250-DSN

S: 250-VRFY
S: 250 HELP
C: VRFY Crispin
S: 250 Mark Crispin <Admin.MRC@foo.com>
C: SEND FROM:<EAK@bar.com>
S: 250 OK
C: RCPT TO:<Admin.MRC@foo.com>
S: 250 OK

C: DATA
S: 354 Start mail input; end with <CRLF>.<CRLF>
C: Blah blah blah...
C: ...etc. etc. etc.
C: .
S: 250 OK
C: QUIT
S: 221 foo.com Service closing transmission channel

E. Other Gateway Issues

In general, gateways between the Internet and other mail systems SHOULD attempt to preserve any layering semantics across the boundaries between the two mail systems involved. Gateway-translation approaches that attempt to take shortcuts by mapping, (such as envelope information from one system to the message headers or body of another) have generally proven to be inadequate in important ways. Systems translating between environments that do not support both envelopes and headers and Internet mail must be written with the understanding that some information loss is almost inevitable.

F. Deprecated Features of RFC 821

A few features of RFC 821 have proven to be problematic and SHOULD NOT be used in Internet mail.

F.1 TURN

This command, described in RFC 821, raises important security issues since, in the absence of strong authentication of the host requesting that the client and server switch roles, it can easily be used to divert mail from its correct destination. Its use is deprecated; SMTP systems SHOULD NOT use it unless the server can authenticate the client.

F.2
Source Routing

RFC 821 utilized the concept of explicit source routing to get mail from one host to another via a series of relays. The requirement to utilize source routes in regular mail traffic was eliminated by the introduction of the domain name system "MX" record and the last significant justification for them was eliminated by the introduction, in RFC 1123, of a clear requirement that addresses following an "@" must all be fully-qualified domain names. Consequently, the only remaining justifications for the use of source

routes are support for very old SMTP clients or MUAs and in mail system debugging. They can, however, still be useful in the latter circumstance and for routing mail around serious, but temporary, problems such as problems with the relevant DNS records.

SMTP servers MUST continue to accept source route syntax as specified in the main body of this document and in RFC 1123. They MAY, if necessary, ignore the routes
and utilize only the target domain in
the address. If they do utilize the source route, the message MUST be sent to the first domain shown in the address. In particular, a server MUST NOT guess at shortcuts within the source route.

Clients SHOULD NOT utilize explicit source routing except under unusual circumstances, such as debugging or potentially relaying around firewall or mail system configuration errors.

F.3 HELO

As discussed in sections 3.1 and 4.1.1, EHLO is strongly preferred to HELO when the server will accept the former. Servers must continue to accept and process HELO in order to support older clients.

F.4 #-literals

RFC 821 provided for specifying an Internet address as a decimal integer host number prefixed by a pound sign, "#". In practice, that form has been obsolete since the introduction of TCP/IP. It is deprecated and MUST NOT be used.

F.5 Dates and Years

When dates are inserted into messages by SMTP clients or
servers
(e.g., in trace fields), four-digit years MUST BE used. Two-digit years are deprecated; three-digit years were never permitted in the Internet mail system.

F.6 Sending versus Mailing

In addition to specifying a mechanism for delivering messages to user's mailboxes, RFC 821 provided additional, optional, commands to deliver messages directly to the user's terminal screen. These commands (SEND, SAML, SOML) were rarely implemented, and changes in workstation technology and the introduction of other protocols may have rendered them obsolete even where they are implemented.

Clients SHOULD NOT provide SEND, SAML, or SOML as services. Servers

MAY implement them. If they are implemented by servers, the implementation model specified in RFC 821 MUST be used and the command names MUST be published in the response to the EHLO command.

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* /opt/cola/permits/2308999132_1736194787.2494197/0/mikel-mail-2-3-1-0-g2cc19d5-tar-gz/mikel-mail-2cc19d5/reference/rfc2821 Simple Mail Transfer Protocol.txt
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Network Working Group D. Crocker, Ed.
Request for Comments: 4234 Brandenburg InternetWorking
Obsoletes: 2234 P. Overell
Category: Standards Track THUS plc.

October 2005

Augmented BNF for Syntax Specifications: ABNF

Status of This Memo

This document specifies an Internet standards track protocol for the Internet community, and requests discussion and suggestions for improvements. Please refer to the current edition of the "Internet Official Protocol Standards" (STD 1) for the standardization state and status of this protocol. Distribution of this memo is unlimited.

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Abstract

Internet technical specifications often need to define a formal syntax. Over the years, a modified version of Backus-Naur Form (BNF), called Augmented BNF (ABNF), has been popular among many Internet specifications. The current specification documents ABNF. It balances compactness and simplicity, with reasonable representational power. The differences between standard BNF and ABNF involve naming rules, repetition, alternatives, order-independence, and value ranges. This specification also supplies additional rule definitions and encoding for a core lexical analyzer of the type common to several Internet specifications.

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1. INTRODUCTION

Internet technical specifications often need to define a formal syntax and are free to employ whatever notation their authors deem useful. Over the years, a modified version of Backus-Naur Form (BNF), called Augmented BNF (ABNF), has been popular among many Internet specifications.
It balances compactness and simplicity,
with reasonable representational power. In the early days of the Arpanet, each specification contained its own definition of ABNF. This included the email specifications, [RFC733] and then [RFC822], which came to be the common citations for defining ABNF. The current document separates those definitions to permit selective reference. Predictably, it also provides some modifications and enhancements.

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The differences between standard BNF and ABNF involve naming rules, repetition, alternatives, order-independence, and value ranges. Appendix B supplies rule definitions and encoding for a core lexical analyzer of the type common to several Internet specifications. It is provided as a convenience and is otherwise separate from the meta

language defined in the body of this document, and separate from its formal status.

Changes since [RFC2234]:

In Section 3.7, the phrase: "That is, exactly <N> occurrences of <element>." was corrected to: "That is, exactly <n> occurrences of <element>."

Some continuation comment lines needed to be corrected to begin with comment character (";").

2. RULE DEFINITION

2.1. Rule Naming

The name of a rule is simply the name itself; that is, a sequence of characters, beginning with an alphabetic character, and followed by a combination of alphabetics, digits, and hyphens (dashes).

NOTE:

Rule names are case-insensitive

The names <rulename>, <Rulename>, <RULENAME>, and <rUlENamE> all refer to the same rule.

Unlike original BNF, angle brackets ("<", ">") are not required. However, angle brackets may be used around a rule name whenever their presence facilitates in discerning the use of a rule name. This is typically restricted to rule name references in free-form prose, or to distinguish partial rules that combine into a string not separated

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by white space, such as shown in the discussion about repetition, below.

2.2. Rule Form

A rule is defined by the following sequence:

```
name =  elements crlf
```

where <name> is the name of the rule, <elements> is one or more rule names or terminal specifications, and <crlf> is the end-of-line indicator (carriage return followed by line feed). The equal sign separates the name from the definition of the rule. The elements form a sequence of one or more rule names and/or value definitions, combined according to the various operators defined in this document, such as alternative and repetition.

For visual ease, rule definitions are left aligned. When a rule requires multiple
lines, the continuation lines are indented. The
left alignment and indentation are relative to the first lines of the ABNF rules and need not match the left margin of the document.

2.3. Terminal Values

Rules resolve into a string of terminal values, sometimes called characters. In ABNF, a character is merely a non-negative integer. In certain contexts, a specific mapping (encoding) of values into a character set (such as ASCII) will be specified.

Terminals are specified by one or more numeric characters, with the base interpretation of those characters indicated explicitly. The following bases are currently defined:

```
b       =  binary

d       =  decimal

x       =  hexadecimal
```

Hence:

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```
CR         =  %d13

CR         =  %x0D
```

respectively specify the decimal and hexadecimal representation of [US-ASCII] for carriage return.

A concatenated string of such values is specified compactly, using a period (".") to indicate a separation of characters within that value. Hence:

```
CRLF       =  %d13.10
```

ABNF permits the specification of literal text strings directly, enclosed in quotation-marks. Hence:

```
command     =  "command string"
```

Literal text strings are interpreted as a concatenated set of printable characters.

NOTE:

ABNF strings are case-insensitive and the character set for these strings is us-ascii.

Hence:

```
rulename = "abc"
```

and:

```
rulename = "aBc"
```

will match "abc", "Abc", "aBc", "abC", "ABc", "aBC", "AbC", and

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"ABC".

To specify a rule that IS case SENSITIVE, specify the characters individually.

For example:

```
rulename    =  %d97 %d98 %d99
```

or

```
rulename    =  %d97.98.99
```

will match only
the string that comprises only the lowercased
characters, abc.

2.4. External Encodings

External representations of terminal value characters will vary according to constraints in the storage or transmission environment. Hence, the same ABNF-based grammar may have multiple external encodings, such as one for a 7-bit US-ASCII environment, another for a binary octet environment, and still a different one when 16-bit Unicode is used. Encoding details are beyond the scope of ABNF, although Appendix A (Core) provides definitions for a 7-bit US-ASCII environment as has been common to much of the Internet.

By separating external encoding from the syntax, it is intended that alternate encoding environments can be used for the same syntax.

3. OPERATORS

3.1. Concatenation: Rule1 Rule2

A rule can

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define a simple, ordered string of values (i.e., a concatenation of contiguous characters) by listing a sequence of rule names. For example:

```
foo        =  %x61          ; a

bar        =  %x62          ; b

mumble     =  foo bar foo
```

So that the rule <mumble> matches the lowercase string "aba".

LINEAR WHITE SPACE: Concatenation is at the core of the ABNF parsing model. A string of contiguous characters (values) is parsed according to the rules defined in ABNF. For Internet specifications, there is some history of permitting linear white space (space and horizontal tab) to be freely and implicitly interspersed around major constructs, such as delimiting special characters or atomic strings.

NOTE:

> This specification for ABNF does not provide for implicit specification of linear white space.

Any grammar that wishes to permit linear white space around delimiters or string segments must specify it explicitly. It is often useful to provide for such white space in "core" rules that are then used variously among higher-level rules. The "core" rules might be formed into a lexical analyzer or simply be part of the main ruleset.

3.2. Alternatives: Rule1 / Rule2

Elements separated by a forward slash ("/") are alternatives. Therefore,

```
foo / bar
```

will accept <foo> or <bar>.

NOTE:

A quoted string containing alphabetic characters is a special form for specifying alternative characters and is interpreted as a non-terminal representing the set of combinatorial strings with the contained characters, in the specified order but with any mixture of upper and lower case.

3.3. Incremental Alternatives: Rule1 =/ Rule2

It is sometimes convenient to specify a list of alternatives in fragments. That is, an initial rule may match one or more alternatives, with later rule definitions adding to the set of alternatives. This is particularly useful for otherwise, independent specifications that derive from the same parent rule set, such as often occurs with parameter lists. ABNF permits this incremental definition through the construct:

```
oldrule     =/ additional-alternatives
```

So that the rule set

```
ruleset     =  alt1 / alt2

ruleset     =/ alt3

ruleset     =/ alt4 / alt5
```

is the same as specifying

```
ruleset     =  alt1 / alt2 / alt3 / alt4 / alt5
```

3.4. Value Range Alternatives: %c##-##

A range of alternative numeric values can be specified compactly, using dash ("-") to indicate the range of alternative values. Hence:

```
DIGIT       =  %x30-39
```

is equivalent to:

```
DIGIT       =  "0" / "1" / "2" / "3" / "4" / "5" / "6" /
```

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"7" / "8" / "9"

Concatenated numeric values and numeric value ranges cannot be specified in the same string. A numeric value may use the dotted notation for concatenation or it may use the dash notation to specify

one value range. Hence, to specify one printable character between end of line sequences, the specification could be:

```
char-line = %x0D.0A %x20-7E %x0D.0A
```

3.5. Sequence Group: (Rule1 Rule2)

Elements enclosed in parentheses are treated as a single element, whose contents are STRICTLY ORDERED. Thus,

```
elem (foo / bar) blat
```

matches (elem foo blat) or (elem bar blat), and

```
elem foo / bar blat
```

matches (elem foo) or (bar blat).

NOTE:

It is strongly advised that grouping notation be used, rather than relying on the proper reading of "bare" alternations, when alternatives
consist of multiple rule names or literals.

Hence, it is recommended that the following form be used:

```
(elem foo) / (bar blat)
```

It will avoid misinterpretation by casual readers.

The sequence group notation is also used within free text to set off an element sequence from the prose.

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3.6. Variable Repetition: *Rule

The operator "*" preceding an element indicates repetition. The full form is:

<a>*<b>element

where <a> and <b> are optional decimal values, indicating at least <a> and at most <b> occurrences of the element.

Default values are 0 and infinity so that *<element> allows any number, including zero; 1*<element> requires at least one; 3*3<element> allows exactly 3 and 1*2<element> allows one or two.

3.7. Specific Repetition: nRule

A rule of the form:

<n>element

is equivalent to

<n>*<n>element

That is, exactly <n> occurrences of <element>. Thus, 2DIGIT is a 2-digit number, and 3ALPHA is a string of three alphabetic characters.

3.8. Optional Sequence: [RULE]

Square brackets enclose an optional element sequence:

[foo bar]

is equivalent to

*1(foo bar).

3.9. Comment: ; Comment

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A semi-colon starts a comment that continues to the end of line. This is a simple way of including useful notes in parallel with the specifications.

3.10. Operator Precedence

The various mechanisms described above have the following precedence, from highest (binding tightest) at the top, to lowest (loosest) at the bottom:

Strings, Names formation

Comment

Value range

Repetition

Grouping, Optional

Concatenation

Alternative

Use of the alternative operator, freely mixed with concatenations, can be confusing.

Again, it is recommended that the grouping operator be used to make explicit concatenation groups.

4. ABNF DEFINITION OF ABNF

NOTES:

1. This syntax requires a formatting of rules that is relatively strict. Hence, the version of a ruleset included in a specification might need preprocessing to ensure that it can be interpreted by an ABNF parser.

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2. This syntax uses the rules provided in Appendix B (Core).

```
rulelist       =  1*( rule / (*c-wsp c-nl) )

rule           =  rulename defined-as elements c-nl
                     ; continues if next line starts
                     ;  with white space

rulename       =  ALPHA *(ALPHA / DIGIT / "-")

defined-as     =  *c-wsp ("=" / "=/") *c-wsp
                     ; basic
rules definition and
                     ;  incremental alternatives

elements       =  alternation *c-wsp

c-wsp          =  WSP / (c-nl WSP)

c-nl           =  comment / CRLF
                     ; comment or newline

comment        =  ";" *(WSP / VCHAR) CRLF

alternation    =  concatenation
                 *(*c-wsp "/" *c-wsp concatenation)

concatenation  =  repetition *(1*c-wsp repetition)

repetition     =  [repeat] element

repeat         =  1*DIGIT / (*DIGIT "*" *DIGIT)
```



```
element        =  rulename / group / option /
                 char-val / num-val / prose-val

group          =  "(" *c-wsp alternation *c-wsp ")"

option         =  "[" *c-wsp alternation *c-wsp "]"
```

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```
char-val
=  DQUOTE *(%x20-21 / %x23-7E) DQUOTE
                    ; quoted string of SP and VCHAR
                    ;  without DQUOTE

num-val       =  "%" (bin-val / dec-val / hex-val)

bin-val       =  "b" 1*BIT
               [ 1*("." 1*BIT) / ("-" 1*BIT) ]
                    ; series of concatenated bit values
                    ;  or single ONEOF range

dec-val       =  "d" 1*DIGIT
               [ 1*("." 1*DIGIT) / ("-" 1*DIGIT) ]

hex-val       =  "x" 1*HEXDIG
               [ 1*("." 1*HEXDIG) / ("-" 1*HEXDIG) ]

prose-val     =  "<" *(%x20-3D / %x3F-7E) ">"
                    ; bracketed string of SP and VCHAR
                    ;  without angles
                    ; prose description, to be used as
                    ;  last resort
```

5. SECURITY CONSIDERATIONS

Security is truly believed
to be irrelevant to this document.

6. References

6.1. Normative References

[US-ASCII] American National Standards Institute, "Coded Character Set -- 7-bit American Standard Code for Information Interchange", ANSI X3.4, 1986.

6.2. Informative References

[RFC2234] Crocker, D. and P. Overell, "Augmented BNF for Syntax Specifications: ABNF", RFC 2234, November 1997.

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[RFC733] Crocker, D., Vittal, J., Pogran, K., and D. Henderson, "Standard for the format of ARPA network text messages", RFC 733, November 1977.

[RFC822] Crocker, D., "Standard for the format of ARPA Internet text messages", STD 11, RFC 822, August 1982.

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Appendix A. ACKNOWLEDGEMENTS

The syntax for ABNF was originally specified in RFC 733. Ken L. Harrenstien, of SRI International, was responsible for re-coding the BNF into an augmented BNF that makes the representation smaller and easier to understand.

This recent project began as a simple effort to cull out the portion of RFC 822 that has been repeatedly cited by non-email specification writers, namely the description of augmented BNF. Rather than simply and blindly converting the existing text into a separate document, the working group chose to give careful consideration to the deficiencies, as well as benefits, of the existing specification and related specifications made available over the last 15 years, and therefore to pursue enhancement. This turned the project into something rather more ambitious than was first intended. Interestingly, the result is not massively different from that original, although decisions, such as removing the list notation, came as a surprise.

This "separated" version of the specification was part of the DRUMS working group, with significant contributions from Jerome Abela, Harald Alvestrand, Robert Elz, Roger Fajman, Aviva Garrett, Tom Harsch, Dan Kohn, Bill McQuillan, Keith Moore, Chris Newman, Pete Resnick, and Henning Schulzrinne.

Julian Reschke warrants a special thanks for converting the Draft Standard version to XML source form.

Appendix B. APPENDIX - CORE ABNF OF ABNF

This Appendix is provided as a convenient core for specific grammars. The definitions may be used as a core set of rules.

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B.1. Core Rules

Certain basic rules are in uppercase, such as SP, HTAB, CRLF, DIGIT, ALPHA, etc.

```
ALPHA        =  %x41-5A / %x61-7A   ; A-Z / a-z

BIT          =  "0" / "1"

CHAR         =  %x01-7F
                ; any
7-bit US-ASCII character,
                ;  excluding NUL
```



```
CR           =  %x0D
                ; carriage return

CRLF         =  CR LF
                ; Internet standard newline

CTL          =  %x00-1F / %x7F
                ; controls

DIGIT        =  %x30-39
                ; 0-9

DQUOTE       =  %x22
                ; " (Double Quote)

HEXDIG       =  DIGIT / "A" / "B" / "C" / "D" / "E" / "F"

HTAB         =  %x09
                ; horizontal tab

LF           =  %x0A
                ; linefeed

LWSP         =  *(WSP / CRLF WSP)
                ; linear white space (past newline)
```

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```
OCTET        =  %x00-FF
                ; 8 bits of data

SP           =  %x20

VCHAR        =  %x21-7E
                ; visible (printing) characters

WSP          =  SP / HTAB
                ; white space
```

B.2. Common Encoding

Externally, data are represented as "network virtual ASCII" (namely, 7-bit US-ASCII in an 8-bit field), with the high (8th) bit set to zero. A string of values is in "network byte order", in which the higher-valued bytes are represented on the left-hand side and are sent over the network first.

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Acknowledgement

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Found in path(s):
* /opt/cola/permits/2308999132_1736194787.2494197/0/mikel-mail-2-3-1-0-g2cc19d5-tar-gz/mikel-mail-2cc19d5/reference/rfc4234 Augmented BNF for Syntax Specifications - ABNF.txt
No license file was found, but licenses were detected in source scan.

sensitive, privileged, or other confidential information. If you are

Found in path(s):
* /opt/cola/permits/2308999132_1736194787.2494197/0/mikel-mail-2-3-1-0-g2cc19d5-tar-gz/mikel-mail-2cc19d5/spec/fixtures/emails/error_emails/content_transfer_encoding_x_uuencode.eml
No license file was found, but licenses were detected in source scan.

INFORMATIONAL

Network Working Group E. Hall
Request for Comments: 4155 September 2005
Category: Informational

The application/mbox Media Type

Status of This Memo

This memo provides information for the Internet community. It does not specify an Internet standard of any kind. Distribution of this memo is unlimited.

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Abstract

This memo requests that the application/mbox media type be authorized for allocation by the IESG, according to the terms specified in RFC 2048. This memo also defines a default format for the mbox database, which must be supported by all conformant implementations.

1. Background and Overview

UNIX-like operating systems have historically made widespread use of "mbox" database files for a variety of local email purposes. In the common case, mbox files store linear sequences of one or more electronic mail messages, with local email clients treating the database as a logical folder of email messages. mbox databases are also used by a variety of other messaging tools, such as mailing list management programs, archiving and filtering utilities, messaging

servers, and other related applications. In recent years, mbox databases have also become common on a large number of non-UNIX computing platforms, for similar kinds of purposes.

The increased pervasiveness of these files has led to an increased demand for a standardized, network-wide interchange of these files as discrete database objects. In turn, this dictates a need for a general media type definition for mbox files, which is the subject and purpose of this memo.

2. About the mbox Database

The mbox database format is not documented in an authoritative specification, but instead exists as a well-known output format that is anecdotally documented, or which is only authoritatively documented for a specific platform or tool.

mbox databases typically contain a linear sequence of electronic mail messages. Each message begins with a separator line that identifies the message sender, and also identifies the date and time at which the message was received by the final recipient (either the last-hop system in the transfer path, or the system which serves as the recipient's mailstore). Each message is typically terminated by an empty line. The end of the database is usually recognized by either the absence of any additional data, or by the presence of an explicit end-of-file marker.

The structure of the separator lines vary across implementations, but usually contain the exact character sequence of "From", followed by a single Space character (0x20), an email address of some kind, another Space character, a timestamp sequence of some kind, and an end-of-line marker. However, due to the lack of any authoritative specification, each of these attributes are known to vary widely

across implementations. For example, the email address can reflect any addressing syntax that has ever been used on any messaging system in all of history (specifically including address forms that are not compatible with Internet messages, as defined by RFC 2822 [RFC2822]). Similarly, the timestamp sequences can also vary according to system output, while the end-of-line sequences will often reflect platform-specific requirements. Different data formats can even appear within a single database as a result of multiple mbox files being concatenated together, or because a single file was accessed by multiple messaging clients, each of which has used its own syntax for the separator line.

Message data within mbox databases often reflects site-specific peculiarities. For example, it is entirely possible for the message body or headers in an mbox database to contain untagged eight-bit character data that implicitly reflects a site-specific default language or locale, or that reflects local defaults for timestamps and email addresses; none of this data is widely portable beyond the local scope. Similarly, message data can also contain unencoded eight-bit binary data, or can use encoding formats that represent a specific platform (e.g., BINHEX or UUENCODE sequences).

Many implementations are also known to escape message body lines that begin with the character sequence of "From ", so as to prevent confusion with overly-liberal parsers that do not search for full separator lines. In the common case, a leading Greater-Than symbol (0x3E) is used for this purpose (with "From " becoming ">From "). However, other implementations are known not to escape such lines unless they are immediately preceded by a blank line or if they also appear to contain an email address and a timestamp. Other implementations are also known to perform secondary escapes against these lines if they are already escaped or quoted, while others ignore these mechanisms altogether.

A comprehensive description of mbox database files on UNIX-like

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systems can be found at http://qmail.org./man/man5/mbox.html, which should be treated as mostly authoritative for those variations that are otherwise only documented in anecdotal form. However, readers are advised that many other platforms and tools make use of mbox databases, and that there are many more potential variations that can be encountered in the wild.

In order to mitigate errors that may arise from such vagaries, this specification defines a "format" parameter to the application/mbox media type declaration, which can be used to identify the specific kind of mbox database that is being transferred. Furthermore, this specification defines a "default" database format which MUST be supported by implementations that claim to be compliant with this specification, and which is to be used as the implicit format for undeclared application/mbox data objects. Additional format types are to be defined in subsequent specifications. Messaging systems that receive an mbox database with an unknown format parameter value SHOULD treat the data as an opaque binary object, as if the data had been declared as application/octet-stream

Refer to Appendix A for a description of the default mbox format.

Note that RFC 2046 [RFC2046] defines the multipart/digest media type for transferring platform-independent message files. Because that specification defines a set of neutral and strict formatting rules, the multipart/digest media type already facilitates highly-predictable transfer and conversion operations; as such, implementers are strongly encouraged to support and use that media type where possible.

3. Prerequisites and Terminology

Readers of this document are expected to be familiar with the

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specification for MIME [RFC2045] and MIME-type registrations [RFC2048].

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in RFC 2119 [RFC2119].

4. The application/mbox Media Type Registration

This section provides the media type registration application (as per [RFC2048]).

MIME media type name: application

MIME subtype name: mbox

Required parameters: none

Optional parameters: The "format" parameter identifies the format of the mbox database and the messages contained therein. The default value for the "format" parameter is "default", and refers to the formatting rules defined in Appendix A of this memo. mbox databases that do not have a "format" parameter SHOULD be interpreted as having the implicit "format" value of "default". mbox databases that have an unknown value for the "format" parameter SHOULD be treated as opaque data objects, as if the media type had been specified as application/octet-stream. Additional values for the format parameter are to be defined in subsequent specifications, and registered with IANA.

Encoding considerations: If an email client receives an mbox database as a message attachment, and then stores that attachment within a local mbox database, the contents of the two database files may become irreversibly intermingled, such that both databases are rendered unrecognizable. In order to avoid these collisions, messaging systems that support this specification MUST encode an mbox database (or at a minimum, the separator lines) with non-transparent transfer encoding (such as BASE64 or Quoted-Printable) whenever an application/mbox object is transferred via messaging protocols. Other transfer services are generally encouraged to adopt similar encoding strategies in order to allow for any subsequent retransmission that might occur, but this is not a requirement. Implementers should also be prepared to encode mbox data locally if non-compliant data is received.

Security considerations:
mbox data is passive, and does not generally
represent a unique or new security threat. However, there is risk in
sharing any kind of data, because unintentional information may be
exposed, and this risk certainly applies to mbox data as well.

Interoperability considerations: Due to the lack of a single
authoritative specification for mbox databases, there are a large
number of variations between database formats (refer to the
introduction text for common examples), and it is expected that non-
conformant data will be erroneously tagged or exchanged. Although
the "default" format specified in this memo does not allow for these
kinds of vagaries, prior negotiation or agreement between humans may
sometimes be needed.

Published specification: see Appendix A.

Applications that use this media type: hundreds of messaging products
make use of the mbox database format, in one form or another.

Magic number(s): mbox database files can be recognized
by having a
leading character sequence of "From", followed by a single Space
character (0x20), followed by additional printable character data
(refer to the description in Appendix A for details). However,
implementers are cautioned that all such files will not be compliant
with all of the formatting rules, therefore implementers should treat
these files with an appropriate amount of circumspection.

File extension(s): mbox database files sometimes have an ".mbox"
extension, but this is not required nor expected. As with magic
numbers, implementers should avoid reflexive assumptions about the
contents of such files.

Macintosh File Type Code(s): None are known to be common.

Person & email address to contact for further information: Eric A.
Hall (ehall@ntrg.com)

Intended usage: COMMON

5. Security Considerations

See the discussion in section 4.

6. IANA Considerations

The IANA has registered the application/mbox media type in the MIME registry, using the application provided in section 4 above.

Furthermore, IANA has established and will maintain a registry of values for the "format" parameter as described in this memo. The first registration is the "default" value, using the description provided in Appendix A. Subsequent values for the "format" parameter MUST be accompanied by some form of recognizable, complete, and legitimate specification, such as an IESG-approved specification, or some kind of authoritative vendor documentation.

7. Normative References

[RFC2045] Freed, N. and N. Borenstein, "Multipurpose Internet Mail Extensions (MIME) Part One: Format of Internet Message Bodies", RFC 2045, November 1996.

[RFC2046] Freed, N. and N. Borenstein, "Multipurpose Internet Mail

Extensions (MIME) Part Two: Media Types", RFC 2046, November 1996.

[RFC2048] Freed, N., Klensin, J., and J. Postel, "Multipurpose Internet Mail Extensions (MIME) Part Four: Registration Procedures", BCP 13, RFC 2048, November 1996.

[RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", BCP 14, RFC 2119, March 1997.

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[RFC2822] Resnick, P., "Internet Message Format", RFC 2822, April 2001.

Appendix A. The "default" mbox Database Format

In order to improve interoperability among messaging systems, this memo defines a "default" mbox database format, which MUST be supported by all implementations that claim to be compliant with this specification.

The "default" mbox database format uses a linear sequence of Internet messages, with each message being immediately prefaced by a separator line, and being terminated by an empty line. More specifically:

- o Each message within the database MUST follow the syntax and formatting rules defined in RFC 2822 [RFC2822] and its related specifications, with the exception that the canonical mbox database MUST use a single Line-Feed character (0x0A) as the end-of-line sequence, and MUST NOT use a Carriage-Return/Line-Feed pair (NB: this requirement only applies to the canonical mbox database as transferred, and does not override any other specifications). This usage represents the most common historical representation of the mbox database format, and

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allows for the least amount of conversion.

o Messages within the default mbox database MUST consist of seven-bit characters within an eight-bit stream. Eight-bit data within the stream MUST be converted to a seven-bit form (using appropriate, standardized encoding) and appropriately tagged (with the correct header fields) before the database is transferred.

o Message headers and data in the default mbox database MUST be fully-qualified, as per the relevant specification(s). For example, email addresses in the various header fields MUST have legitimate domain names (as per RFC 2822), while extended characters and encodings MUST be specified in the appropriate location (as per the appropriate MIME specifications), and so forth.

o Each message in the mbox database MUST be immediately preceded by a single separator line, which MUST conform to the following syntax:

The exact character sequence of "From";

a single Space character (0x20);

the email address of the message sender (as obtained from the message envelope or other authoritative source), conformant with the "addr-spec" syntax from RFC 2822;

a single Space character;

a timestamp indicating the UTC date and time when the message was originally received, conformant with the syntax of the traditional UNIX 'ctime' output sans timezone (note that the use of UTC precludes the need for a timezone indicator);

an end-of-line marker.

o Each message in the database MUST be terminated by an empty

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line, containing a single end-of-line marker.

Note that the first message in an mbox database will only be prefaced by a separator line, while every other message will begin with two end-of-line sequences (one at the end of the message itself, and another to mark the end of the message within the mbox database file
stream) and a separator line (marking the new message). The end of the database is implicitly reached when no more message data or separator lines are found.

Also note that this specification does not prescribe any escape syntax for message body lines that begin with the character sequence of "From ". Recipient systems are expected to parse full separator lines as they are documented above.

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* /opt/cola/permits/2308999132_1736194787.2494197/0/mikel-mail-2-3-1-0-g2cc19d5-tar-gz/mikel-mail-2cc19d5/reference/rfc4155 The application-mbox Media Type.txt
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= Mail

== Introduction

Mail is an internet library for Ruby that is designed to handle emails
generation, parsing and sending in a simple, rubyesque manner.

The purpose of this library is to provide a single point of access to handle
all email functions, including sending and receiving emails. All network
type actions are done through proxy methods to Net::SMTP, Net::POP3 etc.

Built from my experience with TMail, it is designed to be a pure ruby
implementation that makes generating, sending and parsing emails a no
brainer.

It is also designed form the ground up to work with Ruby 1.9. This is because
Ruby 1.9 handles text encodings much more magically than Ruby 1.8.x and so
these features have been taken full advantage of in this library allowing
Mail to handle a lot more messages more cleanly than TMail. Mail does run on
Ruby 1.8.x... it's just not as fun to code.

Finally, Mail has been designed with a very
simple object oriented system
that really opens up the email messages you are parsing, if you know what
you are doing, you can fiddle with every last bit of your email directly.

== Compatibility

Mail is tested and works on the following platforms:

* jruby-1.5.2 [[x86_64-java]]
* ree-1.8.7-2010.02 [x86_64]
* ruby-1.8.6-p399 [x86_64]
* ruby-1.8.7-p302 [x86_64]
* ruby-1.9.2-p0 [x86_64]

== Discussion

If you want to discuss mail with like minded individuals, please subscribe to
the Google Group http://groups.google.com/group/mail-ruby

== Current Capabilities of Mail

* RFC2822 Support, Reading and Writing
* RFC2045-2049 Support for multipart emails
* Support for creating multipart alternate emails
* Support for reading multipart/report emails & getting details from such
* Support for multibyte emails - needs quite a lot of work and testing
* Wrappers for File, Net/POP3, Net/SMTP
* Auto encoding of non US-ASCII header fields
* Auto encoding of non US-ASCII bodies

Mail is RFC2822
compliant now, that is, it can parse and generate valid US-ASCII
emails. There are a few obsoleted syntax emails that it will have problems with, but
it also is quite robust, meaning, if it finds something it doesn't understand it will
not crash, instead, it will skip the problem and keep parsing. In the case of a header
it doesn't understand, it will initialise the header as an optional unstructured
field and continue parsing.

This means Mail won't (ever) crunch your data (I think).

You can also create MIME emails. There are helper methods for making a
multipart/alternate email for text/plain and text/html (the most common pair)
and you can manually create any other type of MIME email.

== Roadmap

Next TODO:

* Improve MIME support for character sets in headers, currently works, mostly, needs
refinement.

== Testing Policy

Basically... we do BDD on Mail. No method gets written in Mail without a
corresponding or covering spec. We expect as a minimum 100% coverage
measured
by RCov. While this is not perfect by any measure, it is pretty
good. Additionally, all functional tests from TMail are to be passing before
the gem gets released.

It also means you can be sure Mail will behave correctly.

== API Policy

No API removals within a single point release. All removals to be depreciated with warnings for at least one MINOR point release before removal.

Also, all private or protected methods to be declared as such - though this is still I/P.

== Installation

Installation is fairly simple, I host mail on rubygems, so you can just do:

gem install mail

== Encodings

If you didn't know, handling encodings in Emails is not as straight forward as you would hope.

I have tried to simplify it some:

1. All objects that can render into an email, have an :encoded method. Encoded will return the object as a complete string ready to send in the mail system, that is, it will include the header field and value and CRLF at the end and wrapped as needed.

2.
All objects that can render into an email, have a :decoded method. Decoded will return the object's "value" only as a string. This means it will not include the header fields (like 'To:' or 'Subject:').

3. By default, calling :to_s on a container object will call it's encoded method, while :to_s on a field object will call it's decoded method. So calling :to_s on a Mail object will return the mail, all encoded ready to send, while calling :to_s on the From field or the body will return the decoded value of the object. The header object of Mail is considered a container. If you are in doubt, call :encoded, or :decoded explicitly, this is safer if you are not sure.

4. Structured fields that have parameter values that can be encoded (e.g. Content-Type) will provide decoded parameter values when you call the parameter names as methods against the object.

5. Structured fields that have parameter values that can be encoded (e.g. Content-Type) will provide encoded parameter values when you call the parameter names through the object.parameters['<parameter_name>'] method call.

== Contributing

Please do! Contributing is easy in Mail:

1. Check the Reference RFCs, they are in the References directory, so no excuses.
2. Open a ticket on github, maybe someone else has the problem too
3. Make a fork of my github repository
4. Make a spec driven change to the code base
5. Make sure it works and all specs pass, on Ruby versions 1.8.6, 1.8.7 and 1.9
6. Update the README if needed to reflect your change / addition
7. With all specs passing push your changes back to your fork
8. Send me a pull request

== Usage

All major mail functions should be able to happen from the Mail::module.
So, you should be able to just "require 'mail'" to get started.

=== Making an email

```
require 'mail'

mail = Mail.new do
     from 'mikel@test.lindsaar.net'
       to 'you@test.lindsaar.net'
  subject 'This is a test email'
     body File.read('body.txt')
 end

mail.to_s #=> "From: mikel@test.lindsaar.net\r\nTo: you@...
```

=== Making an email, have it your way:

```
require 'mail'

mail = Mail.new do
  body File.read('body.txt')
end

mail['from'] = 'mikel@test.lindsaar.net'
mail[:to]    = 'you@test.lindsaar.net'
mail.subject = 'This is a test email'

mail.to_s #=> "From: mikel@test.lindsaar.net\r\nTo: you@...
```

=== Don't Worry About Message IDs:

```
require 'mail'

mail = Mail.new do
    to 'you@test.lindsaar.net'
  body 'Some simple body'
```

```
end

mail.to_s =~ /Message\-ID: <[\d\w_]+@.+.mail/ #=> 27
```

Mail will automatically add a Message-ID field if it is missing and give it a unique, random Message-ID along the lines of:

```
<4a7ff76d7016_13a81ab802e1@local.fqdn.mail>
```

=== Or do worry about Message-IDs:

```
require 'mail'

mail = Mail.new do
        to 'you@test.lindsaar.net'
 message_id '<ThisIsMyMessageId@some.domain.com>'
      body 'Some simple body'
end

mail.to_s =~ /Message\-ID: <ThisIsMyMessageId@some.domain.com>/
 #=> 27
```

Mail will take the message_id you assign to it trusting that you know what you are doing.

=== Sending an email:

Mail defaults to sending via SMTP to local host port 25. If you have a sendmail or postfix daemon running on on this port, sending email is as easy as:

```
Mail.deliver do
     from 'me@test.lindsaar.net'
       to 'you@test.lindsaar.net'
  subject 'Here is the image you wanted'
     body File.read('body.txt')
  add_file '/full/path/to/somefile.png'
end
```

or

```
mail = Mail.new do
     from 'me@test.lindsaar.net'
       to 'you@test.lindsaar.net'
  subject 'Here is the image you wanted'
     body File.read('body.txt')
  add_file {:filename => 'somefile.png', :content => File.read('/somefile.png')}
end
```

mail.deliver!

Sending via sendmail can be done like so:

```
 mail = Mail.new do
       from 'me@test.lindsaar.net'
         to 'you@test.lindsaar.net'
    subject 'Here is the image you wanted'
       body File.read('body.txt')
  add_file {:filename
 => 'somefile.png', :content => File.read('/somefile.png')}
 end

 mail.delivery_method :sendmail

 mail.deliver
```

{Learn more about SMTP Delivery}[link:classes/Mail/SMTP.html]

{Learn more about File Delivery}[link:classes/Mail/FileDelivery.html]

{Learn more about Sendmail Delivery}[link:classes/Mail/Sendmail.html]

{Learn more about Test Email Delivery}[link:classes/Mail/TestMailer.html]

=== Getting emails from a pop server:

The most recent email:

```
Mail.defaults do
  retriever_method :pop3, { :address             => "pop.gmail.com",
                            :port                => 995,
                            :user_name           => '<username>',
                            :password            => '<password>',
                            :enable_ssl          => true }
end

Mail.all    #=> Returns an array of all emails
Mail.first  #=> Returns the first unread email
Mail.last   #=> Returns the first unread email
```

The first 10 emails sorted by date in ascending
 order:

```
require 'mail'

Mail.defaults do
```

```
  retriever_method :pop3, { :address             => "pop.gmail.com",
                            :port                => 995,
                            :user_name           => '<username>',
                            :password            => '<password>',
                            :enable_ssl          => true }
end

emails = Mail.find(:what => :first, :count => 10, :order => :asc)
emails.length #=> 10
```

Or even all emails:

```
Mail.defaults do
  retriever_method :pop3, { :address             => "pop.gmail.com",
                            :port                => 995,
                            :user_name           => '<username>',
                            :password            => '<password>',
                            :enable_ssl          => true }
end

emails = Mail.all

emails.length #=> LOTS!
```

{Learn more about POP3}[link:classes/Mail/POP3.html]

{Learn more about IMAP}[link:classes/Mail/IMAP.html]

=== Reading an
 Email

```
require 'mail'

mail = Mail.read('/path/to/message.eml')

mail.envelope.from   #=> 'mikel@test.lindsaar.net'
mail.from.addresses  #=> ['mikel@test.lindsaar.net', 'ada@test.lindsaar.net']
mail.sender.address  #=> 'mikel@test.lindsaar.net'
mail.to              #=> 'bob@test.lindsaar.net'
mail.cc              #=> 'sam@test.lindsaar.net'
mail.subject         #=> "This is the subject"
mail.date.to_s       #=> '21 Nov 1997 09:55:06 -0600'
mail.message_id      #=> '<4D6AA7EB.6490534@xxx.xxx>'
mail.body.decoded    #=> 'This is the body of the email...
```

Many more methods available.

=== Reading a Multipart Email

```
require 'mail'

mail = Mail.read('multipart_email')

mail.multipart?          #=> true
mail.parts.length        #=> 2
mail.preamble            #=> "Text before the first part"
mail.epilogue            #=> "Text after the last part"
mail.parts.map { |p| p.content_type }  #=> ['text/plain', 'application/pdf']
mail.parts.map { |p| p.class }         #=> [Mail::Message,
 Mail::Message]
mail.parts[0].content_type_parameters  #=> {'charset' => 'ISO-8859-1'}
mail.parts[1].content_type_parameters  #=> {'name' => 'my.pdf'}
```

Mail generates a tree of parts. Each message has many or no parts. Each part is another message which can have many or no parts.

A message will only have parts if it is a multipart/mixed or related/mixed content type and has a boundary defined.

=== Writing and sending a multipart/alternative (html and text) email

Mail makes some basic assumptions and makes doing the common thing as simple as possible.... (asking a lot from a mail library)

```
require 'mail'

mail = Mail.deliver do
  to 'nicolas@test.lindsaar.net.au'
  from 'Mikel Lindsaar <mikel@test.lindsaar.net.au>'
  subject 'First multipart email sent with Mail'
  text_part do
    body 'This is plain text'
  end
  html_part do
    content_type 'text/html; charset=UTF-8'
    body '<h1>This is HTML</h1>'
  end
end
```

Mail then delivers the email at the end of the
 block and returns the
resulting Mail::Message object, which you can then inspect if you
so desire...

```
puts mail.to_s #=>
```

```
To: nicolas@test.lindsaar.net.au
From: Mikel Lindsaar <mikel@test.lindsaar.net.au>
Subject: First multipart email sent with Mail
Content-Type: multipart/alternative;
  boundary=--==_mimepart_4a914f0c911be_6f0f1ab8026659
Message-ID: <4a914f12ac7e_6f0f1ab80267d1@baci.local.mail>
Date: Mon, 24 Aug 2009 00:15:46 +1000
Mime-Version: 1.0
Content-Transfer-Encoding: 7bit


----==_mimepart_4a914f0c911be_6f0f1ab8026659
Content-ID: <4a914f12c8c4_6f0f1ab80268d6@baci.local.mail>
Date: Mon, 24 Aug 2009 00:15:46 +1000
Mime-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

This is plain text
----==_mimepart_4a914f0c911be_6f0f1ab8026659
Content-Type: text/html; charset=UTF-8
Content-ID: <4a914f12cf86_6f0f1ab802692c@baci.local.mail>
Date: Mon, 24 Aug 2009 00:15:46 +1000
Mime-Version: 1.0
Content-Transfer-Encoding: 7bit

<h1>This is HTML</h1>
 ----==_mimepart_4a914f0c911be_6f0f1ab8026659--
```

Mail inserts the content transfer encoding, the mime version, the content-id's and handles the content-type and boundary.

Mail assumes that if your text in the body is only us-ascii, that your transfer encoding is 7bit and it is text/plain. You can override this by explicitly declaring it.

=== Making Multipart/Alternate, without a block

You don't have to use a block with the text and html part included, you can just do it declaratively. However, you need to add Mail::Parts to an email, not Mail::Messages.

```
require 'mail'

mail = Mail.new do
  to 'nicolas@test.lindsaar.net.au'
  from 'Mikel Lindsaar <mikel@test.lindsaar.net.au>'
  subject 'First multipart email sent with Mail'
```

```
end

text_part = Mail::Part.new do
  body 'This is plain text'
end

html_part = Mail::Part.new do
  content_type 'text/html; charset=UTF-8'
  body '<h1>This is HTML</h1>'
end

mail.text_part = text_part
mail.html_part = html_part
```

Results in the
 same email as done using the block form

=== Getting error reports from an email:

```
require 'mail'

@mail = Mail.read('/path/to/bounce_message.eml')

@mail.bounced?         #=> true
@mail.final_recipient  #=> rfc822;mikel@dont.exist.com
@mail.action           #=> failed
@mail.error_status     #=> 5.5.0
@mail.diagnostic_code  #=> smtp;550 Requested action not taken: mailbox unavailable
@mail.retryable?       #=> false
```

=== Attaching and Detaching Files

```
 require 'mail'
```

You can just read the file off an absolute path, Mail will try
to guess the mime_type and will encode the file in Base64 for you.

```
 @mail = Mail.new
 @mail.add_file("/path/to/file.jpg")
 @mail.parts.first.attachment? #=> true
 @mail.parts.first.content_transfer_encoding.to_s #=> 'base64'
 @mail.attachments.first.mime_type #=> 'image/jpg'
 @mail.attachments.first.filename #=> 'file.jpg'
 @mail.attachments.first.decoded == File.read('/path/to/file.jpg') #=> true
```

Or You can pass in file_data and give it a
 filename, again, mail
will try and guess the mime_type for you.

```
@mail = Mail.new
@mail.attachments['myfile.pdf'] = File.read('path/to/myfile.pdf')
@mail.parts.first.attachment? #=> true
@mail.attachments.first.mime_type #=> 'application/pdf'
@mail.attachments.first.decoded == File.read('path/to/myfile.pdf') #=> true
```

You can also override the guessed MIME media type if you really know better than mail (this should be rarely needed)

```
@mail = Mail.new
file_data = File.read('path/to/myfile.pdf')
@mail.attachments['myfile.pdf'] = { :mime_type => 'application/x-pdf',
                                    :content => File.read('path/to/myfile.pdf') }
@mail.parts.first.mime_type #=> 'application/x-pdf'
```

Of course... Mail will round trip an attachment as well

```
@mail = Mail.new do
  to 'nicolas@test.lindsaar.net.au'
  from 'Mikel Lindsaar <mikel@test.lindsaar.net.au>'
  subject 'First multipart email sent with Mail'
  text_part do
    body 'Here is the attachment
you wanted'
  end
  html_part do
    content_type 'text/html; charset=UTF-8'
    body '<h1>Funky Title</h1><p>Here is the attachment you wanted</p>'
  end
  add_file '/path/to/myfile.pdf'
end

@round_tripped_mail = Mail.new(@mail.encoded)

@round_tripped_mail.attachments.length #=> 1
@round_tripped_mail.attachments.first.filename #=> 'myfile.pdf'
```

== Using Mail with Testing or Spec'ing Libraries

If mail is part of your system, you'll need a way to test it without actually sending emails, the TestMailer can do this for you.

```
require 'mail'
=> true
Mail.defaults do
  delivery_method :test
end
```

```
=> #<Mail::Configuration:0x19345a8 @delivery_method=Mail::TestMailer>
Mail::TestMailer.deliveries
=> []
Mail.deliver do
  to 'mikel@me.com'
  from 'you@you.com'
  subject 'testing'
  body 'hello'
end
=> #<Mail::Message:0x19284ec ...
Mail::TestMailer.deliveries.length
=> 1
Mail::TestMailer.deliveries.first
=> #<Mail::Message:0x19284ec ...

Mail::TestMailer.deliveries.clear
=> []
```

== Excerpts from TREC Spam Corpus 2005

The spec fixture files in spec/fixtures/emails/from_trec_2005 are from the 2005 TREC Public Spam Corpus. They remain copyrighted under the terms of that project and license agreement. They are used in this project to verify and describe the development of this email parser implementation.

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Found in path(s):
* /opt/cola/permits/2308999132_1736194787.2494197/0/mikel-mail-2-3-1-0-g2cc19d5-tar-gz/mikel-mail-2cc19d5/README.rdoc
No license file was found, but licenses were detected in source scan.

Network Working Group N. Freed
Request for Comments: 2048 Innosoft
BCP: 13 J. Klensin
Obsoletes: 1521, 1522, 1590 MCI
Category: Best Current Practice J. Postel
ISI
November 1996

Multipurpose Internet Mail Extensions (MIME) Part Four: Registration Procedures

Status of this Memo

This document specifies an Internet Best Current Practices for the Internet Community, and requests discussion and suggestions for improvements. Distribution of this memo is unlimited.

Abstract

STD 11, RFC 822, defines a message representation protocol specifying considerable detail about US-ASCII message headers, and leaves the message content, or message body, as flat US-ASCII text. This set of documents, collectively called the Multipurpose Internet Mail Extensions, or MIME, redefines the format of messages to allow for

(1) textual message bodies in character sets other than

US-ASCII,

(2) an extensible set of different formats for non-textual message bodies,

(3) multi-part message bodies, and

(4) textual header information in character sets other than US-ASCII.

These documents are based on earlier work documented in RFC 934, STD 11, and RFC 1049, but extends and revises them. Because RFC 822 said so little about message bodies, these documents are largely orthogonal to (rather than a revision of) RFC 822.

This fourth document, RFC 2048, specifies various IANA registration procedures for the following MIME facilities:

(1) media types,

(2) external body access types,

(3) content-transfer-encodings.

Registration of character sets for use in MIME is covered elsewhere and is no longer addressed by this document.

These documents are revisions of RFCs 1521 and 1522, which themselves were revisions of RFCs 1341 and 1342. An appendix in RFC 2049 describes differences and changes from previous versions.

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1. Introduction

Recent Internet protocols have been carefully designed to be easily extensible in certain areas. In particular, MIME [RFC 2045] is an open-ended framework and can accommodate additional object types, character sets, and access methods without any changes to the basic protocol. A registration process is needed, however, to ensure that the set of such values is developed in an orderly, well-specified, and public manner.

This document defines registration procedures which use the Internet Assigned Numbers Authority (IANA) as a central registry for such values.

Historical Note: The registration process for media types was initially defined in the context of the asynchronous Internet mail environment. In this mail environment there is a need to limit the number of possible media types to increase the likelihood of interoperability when the capabilities of the remote mail system are not known. As media types are used in new environments, where the proliferation of media types is not a hindrance to interoperability, the original procedure was excessively restrictive and had to be generalized.

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2. Media Type Registration

Registration of a new media type or types starts with the construction of a registration proposal. Registration may occur in several different registration trees, which have different requirements as discussed below. In general, the new registration proposal is circulated and reviewed in a fashion appropriate to the tree involved. The media type is then registered if the proposal is acceptable. The following sections describe the requirements and procedures used for each of the different registration trees.

2.1. Registration Trees and Subtype Names

In order to increase the efficiency and flexibility of the registration process, different structures of subtype names may be registered to accomodate the different natural requirements for, e.g., a subtype that will be recommended for wide support and implementation by the Internet Community or a subtype that is used to move files associated with proprietary software. The following subsections define registration "trees", distinguished by the use of faceted names (e.g., names of the form "tree.subtree...type"). Note that some media types defined prior to this document do not conform to the naming conventions described below. See Appendix A for a discussion of them.

2.1.1. IETF Tree

The IETF tree is intended for types of general interest to the Internet Community. Registration in the IETF tree requires approval by the IESG and publication of the media type registration as some form of RFC.

Media types in the IETF tree are normally denoted by names that are not explicitly faceted, i.e., do not contain period (".", full stop) characters.

The "owner" of a media type registration in the IETF tree is assumed to be the IETF itself. Modification or alteration of the specification requires the same level of processing (e.g. standards track) required for the initial registration.

2.1.2. Vendor Tree

The vendor tree is used for media types associated with commercially available products. "Vendor" or "producer" are construed as

equivalent and very broadly in this context.

A registration may be placed in the vendor tree by anyone who has need to interchange files associated with the particular product. However, the registration formally belongs to the vendor or organization producing the software or file format. Changes to the specification will be made at their request, as discussed in subsequent sections.

Registrations in the vendor tree will be distinguished by the leading facet "vnd.". That may be followed, at the discretion of the registration, by either a media type name from a well-known producer (e.g., "vnd.mudpie") or by an IANA-approved designation of the producer's name which is then followed by a media type or product designation (e.g., vnd.bigcompany.funnypictures).

While public exposure and review of media types to be registered in the vendor tree is not required, using the ietf-types list for review is strongly encouraged to improve the quality of those specifications. Registrations in the vendor tree may be submitted directly to the IANA.

2.1.3. Personal or Vanity Tree

Registrations for media types created experimentally
or as part of
products that are not distributed commercially may be registered in the personal or vanity tree. The registrations are distinguished by the leading facet "prs.".

The owner of "personal" registrations and associated specifications is the person or entity making the registration, or one to whom responsibility has been transferred as described below.

While public exposure and review of media types to be registered in the personal tree is not required, using the ietf-types list for review is strongly encouraged to improve the quality of those specifications. Registrations in the personl tree may be submitted directly to the IANA.

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2.1.4. Special `x.' Tree

For convenience and symmetry with this registration scheme, media type names with "x." as the first facet may be used for the same purposes for which names starting in "x-" are normally used. These types are unregistered, experimental, and should be used only with the active agreement of the parties exchanging them.

However, with the simplified registration procedures described above for vendor and personal trees, it should rarely, if ever, be necessary to use unregistered experimental types, and as such use of both "x-" and "x." forms is discouraged.

2.1.5. Additional Registration Trees

From time to time and as required by the community, the IANA may, with the advice and consent of the IESG, create new top-level registration trees. It is explicitly assumed that these trees may be created for external registration and management by well-known permanent bodies, such as scientific societies for media types specific to the sciences they cover. In general, the quality of review of specifications for one of these additional registration trees is expected to be equivalent to that which IETF would give to registrations in its own tree. Establishment of these new trees will be announced through RFC publication approved by the IESG.

2.2. Registration Requirements

Media type registration proposals are all expected to conform to various requirements laid out in the following sections. Note that requirement specifics sometimes vary depending on the registration tree, again as detailed in the following sections.

2.2.1. Functionality Requirement

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Media types must function as an actual media format: Registration of things that are better thought of as a transfer encoding, as a character set, or as a collection of separate entities of another type, is not allowed. For example, although applications exist to decode the base64 transfer encoding [RFC 2045], base64 cannot be registered as a media type.

This requirement applies regardless of the registration tree involved.

2.2.2. Naming Requirements

All registered media types must be assigned MIME type and subtype names. The combination of these names then serves to uniquely identify the media type and the format of the subtype name identifies the registration tree.

The choice of top-level type name must take the nature of media type involved into account. For example, media normally used for representing still images should be a subtype of the image content type, whereas media capable of representing audio information belongs

under the audio content type. See RFC 2046 for additional information on the basic set of top-level types and their characteristics.

New subtypes of top-level types must conform to the restrictions of the top-level type, if any. For example, all subtypes of the multipart content type must use the same encapsulation syntax.

In some cases a new media type may not "fit" under any currently defined top-level content type. Such cases are expected to be quite rare. However, if such a case arises a new top-level type can be defined to accommodate it. Such a definition must be done via standards-track RFC; no other mechanism can be used to define additional top-level content types.

These requirements apply regardless of the registration tree involved.

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2.2.3. Parameter Requirements

Media types may elect to use one or more MIME content type parameters, or some parameters may be automatically made available to the media type by virtue of being a subtype of a content type that defines a set of parameters applicable to any of its subtypes. In either case, the names, values, and meanings of any parameters must be fully specified when a media type is registered in the IETF tree, and should be specified as completely as possible when media types are registered
in the vendor or personal trees.

New parameters must not be defined as a way to introduce new functionality in types registered in the IETF tree, although new parameters may be added to convey additional information that does not otherwise change existing functionality. An example of this would be a "revision" parameter to indicate a revision level of an external specification such as JPEG. Similar behavior is encouraged for media types registered in the vendor or personal trees but is not required.

2.2.4. Canonicalization and Format Requirements

All registered media types must employ a single, canonical data format, regardless of registration tree.

A precise and openly available specification of the format of each media type is required for all types registered in the IETF tree and must at a minimum be referenced by, if it isn't actually included in, the media type registration proposal itself.

The specifications of format and processing particulars may or may not be publically available for media types registered in the vendor tree, and such registration proposals are explicitly permitted to include only a specification of which software and version produce or process such media types. References to or inclusion of format specifications in registration proposals is encouraged but not required.

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Format specifications are still required for registration in the personal tree, but may be either published as RFCs or otherwise deposited with IANA. The deposited specifications will meet the same criteria as those required to register a well-known TCP port and, in particular, need not be made public.

Some media types involve the use of patented technology. The registration of media types involving patented technology is specifically permitted. However, the restrictions set forth in RFC 1602 on the use of patented technology in standards-track protocols must be respected when the specification of a media type is part of a standards-track protocol.

2.2.5. Interchange Recommendations

Media types should, whenever possible, interoperate across as many systems and applications as possible. However, some media types will inevitably have problems interoperating across different platforms. Problems with different versions, byte ordering, and specifics of gateway handling can and will arise.

Universal interoperability of media types is not required, but known interoperability issues should be identified whenever possible. Publication of a media type does not require an exhaustive review of interoperability, and the interoperability considerations section is subject to continuing evaluation.

These recommendations apply regardless of the registration tree involved.

2.2.6. Security Requirements

An analysis of security issues is required for for all types registered in the IETF Tree. (This is in accordance with the basic requirements for all IETF protocols.) A similar analysis for media types registered in the vendor or personal trees is encouraged but not required. However, regardless of what security analysis has or has not been done, all descriptions of security issues must be as accurate as possible regardless of registration tree. In particular, a statement that there are "no security issues associated with this

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type" must not be confused with "the security issues associates with this type have not been assessed".

There is absolutely no requirement that media types registered in any tree be secure or completely free from risks. Nevertheless, all known security risks must be identified in the registration of a media type, again regardless of registration tree.

The security considerations section of all registrations is subject to continuing evaluation and modification, and in particular may be extended by use of the "comments on media types" mechanism described in subsequent sections.

Some of the issues that should be looked at in a security analysis of a media type are:

(1) Complex media types may include provisions for directives that institute actions on a recipient's files or other resources. In many cases provision is made for originators to specify arbitrary actions in an unrestricted fashion which may then have devastating effects. See the registration of the application/postscript media type in RFC 2046 for an example of such directives and how to handle them.

(2) Complex media types may include provisions for directives that institute actions which, while not directly harmful to the recipient, may result in disclosure of information that either facilitates a subsequent attack or else violates a recipient's privacy in some way. Again, the registration of the application/postscript media type illustrates how such directives can be handled.

(3) A media type might be targeted for applications that require some sort of security assurance but not provide the necessary security mechanisms themselves. For example, a media type could be defined for storage of confidential medical information which in turn requires an external confidentiality service.

2.2.7. Usage and Implementation Non-requirements

In the asynchronous mail environment, where information on the capabilities of the remote mail agent is frequently not available to

the sender, maximum interoperability
is attained by restricting the
number of media types used to those "common" formats expected to be
widely implemented. This was asserted in the past as a reason to

limit the number of possible media types and resulted in a
registration process with a significant hurdle and delay for those
registering media types.

However, the need for "common" media types does not require limiting
the registration of new media types. If a limited set of media types
is recommended for a particular application, that should be asserted
by a separate applicability statement specific for the application
and/or environment.

As such, universal support and implementation of a media type is NOT
a requirement for registration. If, however, a media type is
explicitly intended for limited use, this should be noted
in its
registration.

2.2.8. Publication Requirements

Proposals for media types registered in the IETF tree must be
published as RFCs. RFC publication of vendor and personal media type
proposals is encouraged but not required. In all cases IANA will
retain copies of all media type proposals and "publish" them as part
of the media types registration tree itself.

Other than in the IETF tree, the registration of a data type does not
imply endorsement, approval, or recommendation by IANA or IETF or
even certification that the specification is adequate. To become
Internet Standards, protocol, data objects, or whatever must go
through the IETF standards process. This is too difficult and too
lengthy a process for the convenient registration of media types.

The IETF tree exists for media types that do require require a
substantive review and approval process with the vendor and personal
trees exist for those that do not. It is expected that applicability
statements for particular applications will be published from time to
time that recommend implementation of, and support for, media types

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that have proven particularly useful in those contexts.

As discussed above, registration of a top-level type requires standards-track processing and, hence, RFC publication.

2.2.9. Additional Information

Various sorts of optional information may be included in the specification of a media type if it is available:

(1) Magic number(s) (length, octet values). Magic numbers are byte sequences that are always present and thus can be used to identify entities as being of a given media

type.

(2) File extension(s) commonly used on one or more platforms to indicate that some file containing a given type of media.

(3) Macintosh File Type code(s) (4 octets) used to label files containing a given type of media.

Such information is often quite useful to implementors and if available should be provided.

2.3. Registration Procedure

The following procedure has been implemented by the IANA for review and approval of new media types. This is not a formal standards process, but rather an administrative procedure intended to allow community comment and sanity checking without excessive time delay. For registration in the IETF tree, the normal IETF processes should be followed, treating posting of an internet-draft and announcement on the ietf-types list (as described in the next subsection) as a first step. For registrations in the vendor or personal tree, the initial review step described below may be omitted and the type registered directly by submitting the template and an explanation directly to IANA (at iana@iana.org). However, authors of vendor or personal media type specifications are encouraged to seek community

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review and comment whenever that is feasible.

2.3.1. Present the Media Type to the Community for Review

Send a proposed media type registration to the "ietf-types@iana.org" mailing list for a two week review period. This mailing list has been established for the purpose of reviewing proposed media and access types. Proposed media types are not formally registered and must not be used; the "x-" prefix specified in RFC 2045 can be used until registration is complete.

The intent of the public posting is to solicit comments and feedback on the choice of type/subtype name, the unambiguity of the references with respect to versions and external profiling information, and a review of any interoperability or security considerations. The submitter may submit a revised registration, or withdraw the registration completely, at any time.

2.3.2. IESG Approval

Media types registered in the IETF tree must be submitted to the IESG for approval.

2.3.3. IANA Registration

Provided that the media type meets the requirements for media types and has obtained approval that is necessary, the author may submit the registration request to the IANA, which will register the media type and make the media type registration available to the community.

2.4. Comments on Media Type Registrations

Comments on registered media types may be submitted by members of the community to IANA. These comments will be passed on to the "owner" of the media type if possible. Submitters of comments may request

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that their comment be attached to the media type registration itself, and if IANA approves of this the comment will be made accessible in conjunction with the type registration itself.

2.5. Location of Registered Media Type List

Media type registrations will be posted in the anonymous FTP directory "ftp://ftp.isi.edu/in-notes/iana/assignments/media-types/" and all registered media types will be listed in the periodically issued "Assigned Numbers" RFC [currently STD 2, RFC 1700]. The media type description and other supporting material may also be published as an Informational RFC by sending it to "rfc-editor@isi.edu" (please follow the instructions to RFC authors [RFC-1543]).

2.6. IANA Procedures for Registering Media Types

The IANA will only register media types in the IETF tree in response to a communication from the IESG stating that a given registration has been approved. Vendor and personal types will be registered by the IANA automatically and without any formal review as long as the following minimal conditions are met:

(1) Media types must function as an actual media format. In particular, character sets and transfer encodings may not be registered as media types.

(2) All media types must have properly formed type and subtype names. All type names must be defined by a standards-track RFC. All subtype names must be unique, must conform to the MIME grammar for such names, and must contain the proper tree prefix.

(3) Types registered in the personal tree must either provide a format specification or a pointer to one.

(4) Any security considerations given must not be obviously bogus. (It is neither possible nor necessary for the IANA to conduct a comprehensive security review of media type registrations. Nevertheless, IANA has the

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authority to identify obviously incompetent material
and exclude it.)

2.7. Change Control

Once a media type has been published by IANA, the author may request a change to its definition. The descriptions of the different registration trees above designate the "owners" of each type of registration. The change request follows the same procedure as the registration request:

(1) Publish the revised template on the ietf-types list.

(2) Leave at least two weeks for comments.

(3) Publish using IANA after formal review if required.

Changes should be requested only when there are serious omission or errors in the published specification. When review is required, a change request may be denied if it renders entities that were valid under the previous definition invalid under the new definition.

The owner of a content type may pass responsibility for the content type to another person or agency by informing IANA and the ietf-types list; this can be done without discussion or review.

The IESG may reassign responsibility for a media type. The most common case of this will be to enable changes to be made to types where the author of the registration has died, moved out of contact or is otherwise unable to make changes that are important to the community.

Media type registrations may not be deleted; media types which are no longer believed appropriate for use can be declared OBSOLETE by a change to their "intended use" field; such media types will be clearly marked in the lists published by IANA.

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2.8. Registration Template

To: ietf-types@iana.org
Subject: Registration of MIME media type XXX/YYY

MIME media type name:

MIME subtype name:

Required parameters:

Optional parameters:

Encoding considerations:

Security considerations:

Interoperability considerations:

Published specification:

Applications which use this media type:

Additional information:

Magic number(s):
File extension(s):
Macintosh File Type Code(s):

Person & email address to contact for further information:

Intended usage:

(One of COMMON, LIMITED USE or OBSOLETE)

Author/Change controller:

(Any other information that the author deems interesting may be added below this line.)

3. External Body Access Types

RFC 2046 defines the message/external-body media type, whereby a MIME entity can act as pointer to the actual body data in lieu of including the data directly in the entity body. Each

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message/external-body reference specifies an access type, which determines the mechanism used to retrieve the actual body data. RFC 2046 defines an initial set of access types, but allows for the

registration of additional access types to accommodate new retrieval mechanisms.

3.1. Registration Requirements

New access type specifications must conform to a number of requirements as described below.

3.1.1. Naming Requirements

Each access type must have a unique name. This name appears in the access-type parameter in the message/external-body content-type header field, and must conform to MIME content type parameter syntax.

3.1.2. Mechanism Specification Requirements

All of the protocols, transports, and procedures used by a given access type must be described, either in the specification of the access type itself or in some other publicly available specification, in sufficient detail for the access type to be implemented by any competent implementor. Use of secret and/or proprietary methods in access types are expressly prohibited. The restrictions imposed by RFC 1602 on the standardization of patented algorithms must be respected as well.

3.1.3. Publication Requirements

All access types must be described by an RFC. The RFC may be informational rather than standards-track, although standard-track review and approval are encouraged for all access types.

3.1.4. Security Requirements

Any known security issues that arise from the use of the access type must be completely and fully described. It is not required that the

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access type be secure or that it be free from risks, but that the known risks be identified. Publication of a new access type does not require an exhaustive security review, and the security considerations section is subject to continuing evaluation. Additional security considerations should be addressed by publishing revised versions of the access type specification.

3.2. Registration Procedure

Registration of a new access type starts with the construction of a draft of an RFC.

3.2.1. Present the Access Type to the Community

Send a proposed access type specification to the "ietf-types@iana.org" mailing list for a two week review period. This mailing list has been established for the purpose of reviewing proposed access and media types. Proposed access types are not formally registered and must not be used.

The intent of the public posting is to solicit comments and feedback on the access type specification and a review of any security considerations.

3.2.2. Access Type Reviewer

When the two week period has passed, the access type reviewer, who is appointed by the IETF Applications Area Director, either forwards the request to iana@isi.edu, or rejects it because of significant objections raised on the list.

Decisions made by the reviewer must be posted to the ietf-types mailing
list within 14 days. Decisions made by the reviewer may be appealed to the IESG.

3.2.3. IANA Registration

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Provided that the access type has either passed review or has been successfully appealed to the IESG, the IANA will register the access type and make the registration available to the community. The specification of the access type must also be published as an RFC. Informational RFCs are published by sending them to "rfc-editor@isi.edu" (please follow the instructions to RFC authors [RFC-1543]).

3.3. Location of Registered Access Type List

Access type registrations will be posted in the anonymous FTP directory "ftp://ftp.isi.edu/in-notes/iana/assignments/access-types/" and all registered access types will be listed in the periodically issued "Assigned Numbers" RFC [currently RFC-1700].

3.4. IANA Procedures for Registering Access Types

The identity of the access type reviewer is communicated to the IANA by the IESG. The IANA then only acts in response to access type definitions that either are approved by the access type reviewer and forwarded by the reviewer to the IANA for registration, or in response to a communication from the IESG that an access type definition appeal has overturned the access type reviewer's ruling.

4. Transfer Encodings

Transfer encodings are tranformations applied to MIME media types after conversion to the media type's canonical form. Transfer encodings are used for several purposes:

(1) Many transports, especially message transports, can only handle data consisting of relatively short lines of text. There can also be severe restrictions on what characters can be used in these lines of text -- some transports are restricted to a small subset of US-ASCII

and others cannot handle certain character sequences. Transfer encodings are used to transform binary data into textual form that can survive such transports. Examples of this sort of transfer encoding include the

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base64 and quoted-printable transfer encodings defined in RFC 2045.

(2) Image, audio, video, and even application entities are sometimes quite large. Compression algorithms are often quite effective in reducing the size of large entities. Transfer encodings can be used to apply general-purpose non-lossy compression algorithms to MIME entities.

(3) Transport encodings can be defined as a means of representing existing encoding formats in a MIME context.

IMPORTANT: The standardization of a large numbers of different transfer encodings is seen as a significant barrier to widespread interoperability and is expressely discouraged. Nevertheless, the following procedure has been defined to provide a means of defining additional transfer encodings, should standardization actually be justified.

4.1. Transfer Encoding Requirements

Transfer encoding specifications must conform to a number of requirements as described below.

4.1.1. Naming Requirements

Each transfer encoding must have a unique name. This name appears in the Content-Transfer-Encoding header field and must conform to the syntax of that field.

4.1.2. Algorithm Specification Requirements

All of the algorithms used in a transfer encoding (e.g. conversion to printable form, compression) must be described in their entirety in the transfer encoding specification. Use of secret and/or proprietary algorithms in standardized transfer encodings are expressly prohibited. The restrictions

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imposed by RFC 1602 on the
standardization of patented algorithms must be respected as well.

4.1.3. Input Domain Requirements

All transfer encodings must be applicable to an arbitrary sequence of octets of any length. Dependence on particular input forms is not allowed.

It should be noted that the 7bit and 8bit encodings do not conform to this requirement. Aside from the undesireability of having specialized encodings, the intent here is to forbid the addition of additional encodings along the lines of 7bit and 8bit.

4.1.4. Output Range Requirements

There is no requirement that a particular tranfer encoding produce a particular form of encoded output. However, the output format for each transfer encoding must be fully and completely documented. In particular, each specification must clearly state whether the output format always lies within the confines of 7bit data, 8bit data, or is simply pure binary data.

4.1.5. Data Integrity and Generality Requirements

All transfer encodings must be fully invertible on any platform; it must be possible for anyone to recover the original data by performing the corresponding decoding operation. Note that this requirement effectively excludes all forms of lossy compression as well as all forms of encryption from use as a transfer encoding.

4.1.6. New Functionality Requirements

All transfer encodings must provide some sort of new functionality. Some degree of functionality overlap with previously defined transfer encodings is acceptable, but any new transfer encoding must also offer something no other transfer encoding provides.

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4.2. Transfer Encoding Definition Procedure

Definition of a new transfer encoding starts with the construction of a draft of a standards-track RFC. The RFC must define the transfer encoding precisely and completely, and must also provide substantial justification for defining and standardizing a new transfer encoding. This specification must then be presented to the IESG for consideration. The IESG can

(1) reject the specification outright as being inappropriate for standardization,

(2) approve the formation of an IETF working group to work on the specification in accordance with IETF procedures, or,

(3) accept the specification as-is and put it directly on the standards track.

Transfer encoding specifications on the standards track follow normal IETF rules for standards track documents. A transfer encoding is considered to be defined and available for use once it is on the standards track.

4.3. IANA Procedures for Transfer Encoding Registration

There is no need for a special procedure for registering Transfer Encodings with the IANA. All legitimate transfer encoding registrations must appear as a standards-track RFC, so it is the IESG's responsibility to notify the IANA when a new transfer encoding has been approved.

4.4. Location of Registered Transfer Encodings List

Transfer encoding registrations will be posted in the anonymous FTP directory "ftp://ftp.isi.edu/in-notes/iana/assignments/transfer-encodings/" and all registered transfer encodings will be listed in the periodically issued "Assigned Numbers" RFC [currently RFC-1700].

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Appendix A -- Grandfathered Media Types

A number of media types, registered prior to 1996, would, if registered under the guidelines in this document, be placed into either the vendor or personal trees. Reregistration of those types to reflect the appropriate trees is encouraged, but not required. Ownership and change control principles outlined in this document apply to those types as if they had been registered in the trees described above.

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Found in path(s):
* /opt/cola/permits/2308999132_1736194787.2494197/0/mikel-mail-2-3-1-0-g2cc19d5-tar-gz/mikel-mail-2cc19d5/reference/rfc2048 Multipurpose Internet Mail Extensions (4).txt
No license file was found, but licenses were detected in source scan.

Updated by: 1101, 1183, 1348, 1876, 1982, 1995, STANDARD
1996, 2065, 2136, 2137, 2181, 2308,
2535, 2845, 3425, 3658, 4033, 4034,
4035, 4343 Errata

Network Working Group P. Mockapetris
Request for Comments: 1035 ISI

November 1987

Obsoletes: RFCs 882, 883, 973

DOMAIN NAMES - IMPLEMENTATION AND SPECIFICATION

1. STATUS OF THIS MEMO

This RFC describes the details of the domain system and protocol, and

assumes that the reader is familiar with the concepts discussed in a companion RFC, "Domain Names - Concepts and Facilities" [RFC-1034].

The domain system is a mixture of functions and data types which are an official protocol and functions and data types which are still experimental. Since the domain system is intentionally extensible, new data types and experimental behavior should always be expected in parts of the system beyond the official protocol. The official protocol parts include standard queries, responses and the Internet class RR data formats (e.g., host addresses). Since the previous RFC set, several definitions have changed, so some previous definitions are obsolete.

Experimental or obsolete features are clearly marked in these RFCs, and such information should be used with caution.

The reader is especially cautioned not to depend on the values which appear in examples to be current or complete, since their purpose is primarily pedagogical. Distribution of this memo is unlimited.

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2. INTRODUCTION

2.1. Overview

The goal of domain names is to provide a mechanism for naming resources in such a way that the names are usable in different hosts, networks, protocol families, internets, and administrative organizations.

From the user's point of view, domain names are useful as arguments to a local agent, called a resolver, which retrieves information associated with the domain name. Thus a user might ask for the host address or mail information associated with a particular domain name. To enable the user to request a particular type of information, an appropriate query type is passed to the resolver with the domain name. To the user, the domain tree is a single information space; the resolver is responsible for hiding the distribution of data among name servers from the user.

From the resolver's point of view, the database that makes up the domain space is distributed among various name servers. Different parts of the domain space are stored in different name servers, although a particular data item will be stored redundantly in two or more name servers. The resolver starts with knowledge of at least one name server. When the resolver processes a user query it asks a known name server for the

information; in return, the resolver either receives the desired information or a referral to another name server. Using these referrals, resolvers learn the identities and contents of other name servers. Resolvers are responsible for dealing with the distribution of the domain space and dealing with the effects of name server failure by consulting redundant databases in other servers.

Name servers manage two kinds of data. The first kind of data held in sets called zones; each zone is the complete database for a particular "pruned" subtree of the domain space. This data is called authoritative. A name server periodically checks to make sure that its zones are up to date, and if not, obtains a new copy of updated zones

from master files stored locally or in another name server. The second kind of data is cached data which was acquired by a local resolver. This data may be incomplete, but improves the performance of the retrieval process when non-local data is repeatedly accessed. Cached data is eventually discarded by a timeout mechanism.

This functional structure isolates the problems of user interface, failure recovery, and distribution in the resolvers and isolates the database update and refresh problems in the name servers.

2.2. Common configurations

A host can participate in the domain name system in a number of ways, depending on whether the host runs programs that retrieve information from the domain system, name servers that answer queries from other hosts, or various combinations of both functions. The simplest, and perhaps most typical, configuration is shown below:

```
            Local Host                    |  Foreign
                                          |
  +---------+              +----------+        |  +--------+
  |         | user queries  |          |queries  | |        |
  |  User   |--------------->|         |---------|->|Foreign |
  | Program |              | Resolver |        | |  Name  |
  |         |<--------------|          |<--------|--| Server |
  |         | user responses|          |responses|  |        |
```

```
  +---------+            +----------+        | +--------+
                      |    A          |
           cache additions |     | references
|
                       V    |          |
                      +----------+        |
                      | cache   |        |
                      +----------+        |
```

User programs interact with the domain name space through resolvers; the format of user queries and user responses is specific to the host and its operating system. User queries will typically be operating system calls, and the resolver and its cache will be part of the host operating system. Less capable hosts may choose to implement the resolver as a subroutine to be linked in with every program that needs its services. Resolvers answer user queries with information they acquire via queries to foreign name servers and the local cache.

Note that the resolver may have to make several queries to several different foreign name servers to answer a particular user query, and hence the resolution of a user query may involve several network accesses and an arbitrary amount
of time. The queries to foreign name
servers and the corresponding responses have a standard format described

in this memo, and may be datagrams.

Depending on its capabilities, a name server could be a stand alone program on a dedicated machine or a process or processes on a large timeshared host. A simple configuration might be:

```
            Local Host                    |  Foreign
                                      |
   +---------+                          |
  /        /|                          |
  +---------+ |            +----------+        | +--------+
  |        | |            |         |responses|  |        |
  |        | |            |   Name   |---------|->|Foreign |
  |  Master |-------------->|  Server  |        |  |Resolver|
  |  files  | |
```

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```
   |         |<--------|--|       |
  |        |/             |         | queries |  +--------+
  +---------+              +----------+         |
```

Here a primary name server acquires information about one or more zones by reading master files from its local file system, and answers queries about those zones that arrive from foreign resolvers.

The DNS requires that all zones be redundantly supported by more than one name server. Designated secondary servers can acquire zones and check for updates from the primary server using the zone transfer protocol of the DNS. This configuration is shown below:

```
             Local Host                    |  Foreign
                                           |
    +---------+                            |
   /        /|                            |
  +---------+ |            +----------+        |  +--------+
  |        | |            |         |responses|  |       |
  |        | |
 |   Name   |---------|->|Foreign |
  |  Master |-------------->|  Server  |        |  |Resolver|
  |  files  | |            |         |<--------|--|       |
  |        |/             |         | queries |  +--------+
  +---------+              +----------+         |
                            A     |maintenance |  +--------+
                            |     +------------|->|       |
                            |      queries     |  |Foreign |
                            |                  | |  Name  |
                            +------------------|--| Server |
                         maintenance responses |  +--------+
```

In this configuration, the name server periodically establishes a virtual circuit to a foreign name server to acquire a copy of a zone or to check that an existing copy has not changed. The messages sent for

these maintenance activities follow the same form as queries and responses, but the message sequences are somewhat different.

The information flow in a host that supports all aspects of the domain

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name system is shown below:

```
            Local Host                    |  Foreign
                                          |
  +---------+             +----------+        |  +--------+
  |        | user queries  |         |queries  | |       |
  |  User   |-------------->|         |---------|->|Foreign |
  | Program |             | Resolver |        | |  Name  |
  |        |<--------------|         |<--------|--| Server |
  |        | user responses|         |responses|  |       |
  +---------+             +----------+        |  +--------+
                        |    A          |
           cache additions |    | references |
                        V    |          |

                   +----------+        |
                      |  Shared  |        |
                      | database |        |
                      +----------+        |
                        A    |          |
    +---------+    refreshes |    | references |
   /        /|             |    V          |
  +---------+ |            +----------+        |  +--------+
  |        | |           |         |responses|  |       |
  |        | |           |   Name   |---------|->|Foreign |
  |  Master |-------------->|  Server  |        |  |Resolver|
  |  files  | |           |         |<--------|--|       |
  |        |/            |         | queries |  +--------+
  +---------+             +----------+        |
                        A    |maintenance |  +--------+
                        |    +------------|->|       |
                        |     queries     |  |Foreign
|
                        |                 | |  Name  |
                        +-------------------|--| Server |
                      maintenance responses |  +--------+
```

The shared database holds domain space data for the local name server and resolver. The contents of the shared database will typically be a mixture of authoritative data maintained by the periodic refresh operations of the name server and cached data from previous resolver requests. The structure of the domain data and the necessity for synchronization between name servers and resolvers imply the general characteristics of this database, but the actual format is up to the local implementor.

Information flow can also be tailored so that a group of hosts act together to optimize activities. Sometimes this is done to offload less capable hosts
so that they do not have to implement a full resolver.
This can be appropriate for PCs or hosts which want to minimize the amount of new network code which is required. This scheme can also allow a group of hosts can share a small number of caches rather than maintaining a large number of separate caches, on the premise that the centralized caches will have a higher hit ratio. In either case, resolvers are replaced with stub resolvers which act as front ends to resolvers located in a recursive server in one or more name servers known to perform that service:

```
              Local Hosts                  |  Foreign
                                           |
  +---------+                              |
  |         | responses                    |
  | Stub    |<---------------------+       |
  | Resolver|                      |       |
  |         |----------------+     |       |
  +---------+ recursive      |     |
   |
            queries        |     |       |
                        V     |       |
  +---------+ recursive     +----------+         |  +--------+
  |         | queries       |          |queries  | |        |
  | Stub    |-------------->| Recursive|---------|->|Foreign |
  | Resolver|               | Server   |         | |  Name  |
  |         |<--------------|          |<--------|--| Server |
  +---------+ responses     |          |responses| |        |
                            +----------+         |  +--------+
                            |  Central |         |
                            |   cache  |         |
                            +----------+         |
```

In any case, note that domain components are always replicated for reliability whenever possible.

2.3. Conventions

The domain system has several conventions dealing with low-level, but fundamental, issues. While the implementor is free to violate these

conventions WITHIN
HIS OWN SYSTEM, he must observe these conventions in
ALL behavior observed from other hosts.

2.3.1. Preferred name syntax

The DNS specifications attempt to be as general as possible in the rules
for constructing domain names. The idea is that the name of any
existing object can be expressed as a domain name with minimal changes.

However, when assigning a domain name for an object, the prudent user
will select a name which satisfies both the rules of the domain system
and any existing rules for the object, whether these rules are published
or implied by existing programs.

For example, when naming a mail domain, the user should satisfy both the
rules of this memo and those in RFC-822. When creating a new host name,
the old rules for HOSTS.TXT should be followed. This avoids problems
when old software is converted to use domain names.

The
following syntax will result in fewer problems with many

applications that use domain names (e.g., mail, TELNET).

<domain> ::= <subdomain> | " "

<subdomain> ::= <label> | <subdomain> "." <label>

<label> ::= <letter> [[<ldh-str>] <let-dig>]

<ldh-str> ::= <let-dig-hyp> | <let-dig-hyp> <ldh-str>

<let-dig-hyp> ::= <let-dig> | "-"

<let-dig> ::= <letter> | <digit>

<letter> ::= any one of the 52 alphabetic characters A through Z in
upper case and a through z in lower case

<digit> ::= any one of the ten digits 0 through 9

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Note that while upper and lower case letters are allowed in domain names, no significance is attached to the case. That is, two names with the same spelling but different case are to be treated as if identical.

The labels must follow the rules for ARPANET host names. They must start with a letter, end with a letter or digit, and have as interior characters only letters, digits, and hyphen. There are also some restrictions on the length. Labels must be 63 characters or less.

For example, the following strings identify hosts in the Internet:

A.ISI.EDU XX.LCS.MIT.EDU SRI-NIC.ARPA

2.3.2. Data Transmission Order

The order of transmission of the header and data described in this document is resolved to the octet level. Whenever a diagram shows a

group of octets, the order of transmission of those octets is the normal order in which they are read in English. For example, in the following diagram, the octets are transmitted in the order they are numbered.

```
 0                   1
 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5
+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+
|     1     |     2     |
+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+
|     3     |     4     |
+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+
|     5     |     6     |
+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+
```

Whenever an octet represents a numeric quantity, the left most bit in the diagram is the high order or most significant bit. That is, the bit labeled 0 is the most significant bit. For example, the following diagram represents the value 170 (decimal).

```
 0 1 2 3 4 5 6 7
```

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```
+-+-+-+-+-+-+-+-+
|1 0 1 0 1 0 1 0|
+-+-+-+-+-+-+-+-+
```

Similarly, whenever a multi-octet field represents a numeric quantity the left most bit of the whole field is the most significant bit. When a multi-octet quantity is transmitted the most significant octet is transmitted first.

2.3.3. Character Case

For all parts of the DNS that are part of the official protocol, all comparisons between character strings (e.g., labels, domain names, etc.) are done in a case-insensitive manner. At present, this rule is in force throughout the domain system without exception. However, future additions beyond current usage may need to use the full binary octet capabilities in names, so attempts to store domain names in 7-bit ASCII or use of special bytes to terminate labels, etc., should be avoided.

When data enters the domain system, its original case should be preserved whenever possible. In certain circumstances this cannot be done. For example, if two RRs are stored in a database, one at x.y and one at X.Y, they are actually stored at the same place in the database, and hence only one casing would be preserved. The basic rule is that case can be discarded only when data is used to define structure in a database, and two names are identical when compared in a case insensitive manner.

Loss of case sensitive data must be minimized. Thus while data for x.y and X.Y may both be stored under a single location x.y or X.Y, data for a.x and B.X would never be stored under A.x, A.X, b.x, or b.X. In general, this preserves the case of the first label of a domain name, but forces standardization of interior node labels.

Systems administrators who enter data into the domain database should take care to represent the data they supply to the domain system in a case-consistent manner if their system is case-sensitive. The data distribution system in the domain system will ensure that consistent

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representations are preserved.

2.3.4. Size limits

Various objects and parameters in the DNS have size limits. They are listed below. Some could be easily changed, others are more fundamental.

labels 63 octets or less

names 255 octets or less

TTL positive values of a signed 32 bit number.

UDP messages 512 octets or less

3. DOMAIN NAME SPACE AND RR DEFINITIONS

3.1. Name space definitions

Domain names in messages are expressed in terms of a sequence of labels. Each label is represented as a one octet length field followed by that number of octets. Since every domain name ends with the null label of
the root, a domain name is terminated by a length byte of zero. The high order two bits of every length octet must be zero, and the remaining six bits of the length field limit the label to 63 octets or less.

To simplify implementations, the total length of a domain name (i.e., label octets and label length octets) is restricted to 255 octets or less.

Although labels can contain any 8 bit values in octets that make up a label, it is strongly recommended that labels follow the preferred syntax described elsewhere in this memo, which is compatible with existing host naming conventions. Name servers and resolvers must compare labels in a case-insensitive manner (i.e., A=a), assuming ASCII with zero parity. Non-alphabetic codes must match exactly.

3.2. RR definitions

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3.2.1. Format

All RRs have the same top level format shown below:

```
                                1  1  1  1  1  1
  0  1  2  3  4  5  6  7  8  9  0  1  2  3  4  5
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
|                                               |
/                                               /
/                      NAME                     /
|                                               |
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
|                      TYPE                     |
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
|                     CLASS                     |
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
|                      TTL                      |
|                                               |
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
|                   RDLENGTH                    |
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--|
/                     RDATA                     /
/
                        /
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
```

where:

NAME an owner name, i.e., the name of the node to which this resource record pertains.

TYPE two octets containing one of the RR TYPE codes.

CLASS two octets containing one of the RR CLASS codes.

TTL a 32 bit signed integer that specifies the time interval that the resource record may be cached before the source of the information should again be consulted. Zero values are interpreted to mean that the RR can only be used for the transaction in progress, and should not be cached. For example, SOA records are always distributed with a zero TTL to prohibit caching. Zero values can also be used for extremely volatile data.

RDLENGTH an unsigned 16 bit integer that specifies the length in octets of the

RDATA field.

RDATA a variable length string of octets that describes the resource. The format of this information varies according to the TYPE and CLASS of the resource record.

3.2.2. TYPE values

TYPE fields are used in resource records. Note that these types are a subset of QTYPEs.

TYPE value and meaning

A 1 a host address

NS 2 an authoritative name server

MD 3 a mail destination (Obsolete - use MX)

MF 4 a mail forwarder (Obsolete - use MX)

CNAME 5 the canonical name for an alias

SOA 6 marks the start of a zone of authority

MB 7 a mailbox domain name (EXPERIMENTAL)

MG 8 a mail group member (EXPERIMENTAL)

MR 9 a mail rename domain name (EXPERIMENTAL)

NULL
10 a null RR (EXPERIMENTAL)

WKS 11 a well known service description

PTR 12 a domain name pointer

HINFO 13 host information

MINFO 14 mailbox or mail list information

MX 15 mail exchange

TXT 16 text strings

3.2.3. QTYPE values

QTYPE fields appear in the question part of a query. QTYPES are a superset of TYPEs, hence all TYPEs are valid QTYPEs. In addition, the following QTYPEs are defined:

AXFR 252 A request for a transfer of an entire zone

MAILB 253 A request for mailbox-related records (MB, MG or MR)

MAILA 254 A request for mail agent RRs (Obsolete - see MX)

* 255 A request for all records

3.2.4. CLASS values

CLASS fields appear in resource records. The following CLASS mnemonics and values are defined:

IN
1 the Internet

CS 2 the CSNET class (Obsolete - used only for examples in some obsolete RFCs)

CH 3 the CHAOS class

HS 4 Hesiod [Dyer 87]

3.2.5. QCLASS values

QCLASS fields appear in the question section of a query. QCLASS values are a superset of CLASS values; every CLASS is a valid QCLASS. In addition to CLASS values, the following QCLASSes are defined:

* 255 any class

3.3. Standard RRs

The following RR definitions are expected to occur, at least potentially, in all classes. In particular, NS, SOA, CNAME, and PTR will be used in all classes, and have the same format in all classes. Because their RDATA format is known, all domain names in the RDATA section of these RRs may be compressed.

<domain-name> is a domain name represented as a series of labels, and terminated by a label with zero length. <character-string> is a single length octet followed by that number of characters. <character-string> is
treated as binary information, and can be up to 256 characters in length (including the length octet).

3.3.1. CNAME RDATA format

```
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
/                    CNAME                    /
/                                             /
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
```

where:

CNAME A <domain-name> which specifies the canonical or primary name for the owner. The owner name is an alias.

CNAME RRs cause no additional section processing, but name servers may choose to restart the query at the canonical name in certain cases. See the description of name server logic in [RFC-1034] for details.

3.3.2. HINFO RDATA format

```
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
/                    CPU
```

```
        /
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
/                    OS                    /
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
```

where:

CPU A <character-string> which specifies the CPU type.

OS A <character-string> which specifies the operating system type.

Standard values for CPU and OS can be found in [RFC-1010].

HINFO records are used to acquire general information about a host. The main use is for protocols such as FTP that can use special procedures when talking between machines or operating systems of the same type.

3.3.3. MB RDATA format (EXPERIMENTAL)

```
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
/                MADNAME                 /
/                                        /
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
```

where:

MADNAME A <domain-name> which specifies a host which has the specified mailbox.

MB records cause additional section processing which looks up an A type RRs corresponding to MADNAME.

3.3.4. MD RDATA format (Obsolete)

```
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
/                MADNAME                 /
/                                        /
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
```

where:

MADNAME A <domain-name> which specifies a host which has a mail agent for the domain which should be able to deliver mail for the domain.

MD records cause additional section processing which looks up an A type record corresponding to MADNAME.

MD is obsolete. See the definition of MX and [RFC-974] for details of the new scheme. The recommended policy for dealing with MD RRs found in a master file is to reject them, or to convert them to MX RRs with a preference of 0.

3.3.5. MF RDATA format (Obsolete)

```
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
/                    MADNAME                    /
/                                               /
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
```

where:

MADNAME A <domain-name> which specifies a host which has a mail agent for the domain which will accept mail for forwarding to the domain.

MF records cause additional section processing which looks up an A type record corresponding to MADNAME.

MF is obsolete. See the definition of MX and [RFC-974] for details ofw the new scheme. The recommended policy for dealing with MD RRs found in a master file is to reject them, or to convert them to MX RRs with a preference of 10.

3.3.6. MG RDATA format (EXPERIMENTAL)

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```
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
/                MGMNAME                  /
/                                         /
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
```

where:

MGMNAME A <domain-name> which specifies a mailbox which is a member of the mail group specified by the domain name.

MG records cause no additional section processing.

3.3.7. MINFO RDATA format (EXPERIMENTAL)

```
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
/                RMAILBX                  /
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
/                EMAILBX                  /
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
```

where:

RMAILBX A <domain-name> which specifies a mailbox which is responsible for the mailing list or mailbox. If this domain name names the root, the owner of the MINFO RR is responsible for itself. Note that many existing mailing lists use a mailbox X-request for the RMAILBX field of mailing list X, e.g., Msgroup-request for Msgroup. This field provides a more general mechanism.

EMAILBX A <domain-name> which specifies a mailbox which is to receive error messages related to the mailing list or mailbox specified by the owner of the MINFO RR (similar to the ERRORS-TO: field which has been proposed). If this domain name names the root, errors should be returned to the sender of the message.

MINFO records cause no additional section processing. Although these records can be associated with a simple mailbox, they are usually used with a mailing list.

3.3.8. MR RDATA format (EXPERIMENTAL)

```
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
/                NEWNAME                /
/                                       /
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
```

where:

NEWNAME A <domain-name> which specifies a mailbox which is the proper rename of the specified mailbox.

MR records cause no additional section processing. The main use for MR is as a forwarding entry for a user who has moved to a different mailbox.

3.3.9. MX RDATA format

```
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
|               PREFERENCE                      |
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
/                EXCHANGE                       /
/                                               /
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
```

where:

PREFERENCE A 16 bit integer which specifies the preference given to this RR among others at the same owner. Lower values are preferred.

EXCHANGE A <domain-name> which specifies a host willing to act as a mail exchange for the owner name.

MX records cause type A additional section processing for the host specified by EXCHANGE. The use of MX RRs is explained in detail in [RFC-974].

3.3.10. NULL RDATA format (EXPERIMENTAL)

```
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
/                <anything>                /
/                                          /
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
```

Anything at all may be in the RDATA field so long as it is 65535 octets or less.

NULL records cause no additional section processing. NULL RRs are not allowed in master files. NULLs are used as placeholders in some experimental extensions of the DNS.

3.3.11. NS RDATA format

```
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
/                NSDNAME                   /
/                                          /
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
```

where:

NSDNAME A <domain-name> which specifies a host which should be authoritative for the specified class and domain.

NS records cause both the usual additional section processing to locate a type A record, and, when used in a referral, a special search of the zone in which they reside for glue information.

The NS RR states that the named host should be expected to have a zone starting at owner name of the specified class. Note that the class may not indicate the protocol family which should be used to communicate with the host, although it is typically a strong hint. For example, hosts which are name servers for either Internet (IN) or Hesiod (HS) class information are normally queried using IN class protocols.

3.3.12. PTR RDATA format

```
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
```

```
/                    PTRDNAME                   /
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
```

where:

PTRDNAME A <domain-name> which points to some location in the domain name space.

PTR records cause no additional section processing. These RRs are used in special domains to point to some other location in the domain space. These records are simple data, and don't imply any special processing similar to that performed by CNAME, which identifies aliases. See the description of the IN-ADDR.ARPA domain for an example.

3.3.13. SOA RDATA format

```
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
/                    MNAME                      /
/                                               /
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
/
                     RNAME                      /
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
|                    SERIAL                     |
|                                               |
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
|                    REFRESH                    |
|                                               |
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
|                    RETRY                      |
|                                               |
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
|                    EXPIRE                     |
|                                               |
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
|                    MINIMUM                    |
```

```
  |                                       |
  +--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
```

where:

MNAME The <domain-name> of the name server that was the

original or primary source of data for this zone.

RNAME A <domain-name> which specifies the mailbox of the person responsible for this zone.

SERIAL The unsigned 32 bit version number of the original copy of the zone. Zone transfers preserve this value. This value wraps and should be compared using sequence space arithmetic.

REFRESH A 32 bit time interval before the zone should be refreshed.

RETRY A 32 bit time interval that should elapse before a failed refresh should be retried.

EXPIRE A 32 bit time value that specifies the upper limit on the time interval that can elapse before the zone is no longer authoritative.

MINIMUM The unsigned 32 bit minimum TTL field that should be exported with any RR from this zone.

SOA records cause no additional section processing.

All times are in units of seconds.

Most of these fields are pertinent only for name server maintenance operations. However, MINIMUM is used in all query operations that retrieve RRs from a zone. Whenever a RR is sent in a response to a query, the TTL field is set to the maximum of the TTL field from the RR

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and the MINIMUM field in the appropriate SOA. Thus MINIMUM is a lower bound on the TTL field for all RRs in a zone. Note that this use of MINIMUM should occur when the RRs are copied into the response and not when the zone is loaded from a master file or via a zone transfer. The reason for this provison is to allow future dynamic update facilities to change the SOA RR with known semantics.

3.3.14. TXT RDATA format

```
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
/                TXT-DATA                       /
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
```

where:

TXT-DATA
One or more <character-string>s.

TXT RRs are used to hold descriptive text. The semantics of the text depends on the domain where it is found.

3.4. Internet specific RRs

3.4.1. A RDATA format

```
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
|                ADDRESS                        |
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
```

where:

ADDRESS A 32 bit Internet address.

Hosts that have multiple Internet addresses will have multiple A records.

A records cause no additional section processing. The RDATA section of an A line in a master file is an Internet address expressed as four

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decimal numbers separated by dots without any imbedded spaces (e.g., "10.2.0.52" or "192.0.5.6").

3.4.2. WKS RDATA format

```
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
|                ADDRESS                |
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
|     PROTOCOL      |                    |
+--+--+--+--+--+--+--+--+                    |
|                                |
/               <BIT MAP>                /
/                                /
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
```

where:

ADDRESS An 32 bit Internet address

PROTOCOL An 8 bit IP protocol number

<BIT MAP> A variable length bit map. The bit map must be a multiple of 8 bits long.

The WKS record is used to describe the well known services supported by a particular protocol on a particular internet address. The PROTOCOL field specifies an IP protocol number, and the bit map has one bit per port of the specified protocol. The first bit corresponds to port 0, the second to port 1, etc. If the bit map does not include a bit for a protocol of interest, that bit is assumed zero. The appropriate values and mnemonics for ports and protocols are specified in [RFC-1010].

For example, if PROTOCOL=TCP (6), the 26th bit corresponds to TCP port 25 (SMTP). If this bit is set, a SMTP server should be listening on TCP port 25; if zero, SMTP service is not supported on the specified address.

The purpose of WKS RRs is to provide availability information for servers for TCP and UDP. If a server supports both TCP and UDP, or has multiple Internet addresses, then multiple WKS RRs are used.

WKS RRs cause no additional section processing.

In master files, both ports and protocols are expressed using mnemonics or decimal numbers.

3.5. IN-ADDR.ARPA domain

The Internet uses a special domain to support gateway location and Internet address to host mapping. Other classes may employ a similar strategy in other domains. The intent of this domain is to provide a guaranteed method to perform host address to host name mapping, and to facilitate queries to locate all gateways on a particular network in the Internet.

Note that both of these services are similar to functions that could be performed by inverse queries; the difference is that this part of the domain name space is structured according to address, and hence can guarantee that the appropriate data can be located without an exhaustive search of the domain space.

The domain begins at IN-ADDR.ARPA and has a substructure which follows the Internet addressing structure.

Domain names in the IN-ADDR.ARPA domain are defined to have up to four labels in addition to the IN-ADDR.ARPA suffix. Each label represents one octet of an Internet address, and is expressed as a character string for a decimal value in the range 0-255 (with leading zeros omitted except in the case of a zero octet which is represented by a single zero).

Host addresses are represented by domain names that have all four labels specified. Thus data for Internet address 10.2.0.52 is located at domain name 52.0.2.10.IN-ADDR.ARPA. The reversal, though awkward to read, allows zones to be delegated which are exactly one network of address space. For example, 10.IN-ADDR.ARPA can be a zone containing data for the ARPANET, while 26.IN-ADDR.ARPA can be a separate zone for MILNET. Address nodes are used to hold pointers to primary host names in the normal domain space.

Network numbers correspond to some non-terminal nodes at various depths in the IN-ADDR.ARPA domain, since Internet network numbers are either 1, 2, or 3 octets. Network nodes are used to hold pointers to the primary host names of gateways attached to that network. Since a gateway is, by definition, on more than one network, it will typically have two or more

network nodes which point at it. Gateways will also have host level pointers at their fully
qualified addresses.

Both the gateway pointers at network nodes and the normal host pointers at full address nodes use the PTR RR to point back to the primary domain names of the corresponding hosts.

For example, the IN-ADDR.ARPA domain will contain information about the ISI gateway between net 10 and 26, an MIT gateway from net 10 to MIT's

net 18, and hosts A.ISI.EDU and MULTICS.MIT.EDU. Assuming that ISI gateway has addresses 10.2.0.22 and 26.0.0.103, and a name MILNET-GW.ISI.EDU, and the MIT gateway has addresses 10.0.0.77 and 18.10.0.4 and a name GW.LCS.MIT.EDU, the domain database would contain:

```
10.IN-ADDR.ARPA.          PTR MILNET-GW.ISI.EDU.
10.IN-ADDR.ARPA.          PTR GW.LCS.MIT.EDU.
18.IN-ADDR.ARPA.          PTR GW.LCS.MIT.EDU.
26.IN-ADDR.ARPA.          PTR MILNET-GW.ISI.EDU.
22.0.2.10.IN-ADDR.ARPA.
 PTR MILNET-GW.ISI.EDU.
103.0.0.26.IN-ADDR.ARPA.   PTR MILNET-GW.ISI.EDU.
77.0.0.10.IN-ADDR.ARPA.    PTR GW.LCS.MIT.EDU.
4.0.10.18.IN-ADDR.ARPA.    PTR GW.LCS.MIT.EDU.
103.0.3.26.IN-ADDR.ARPA.   PTR A.ISI.EDU.
6.0.0.10.IN-ADDR.ARPA.     PTR MULTICS.MIT.EDU.
```

Thus a program which wanted to locate gateways on net 10 would originate a query of the form QTYPE=PTR, QCLASS=IN, QNAME=10.IN-ADDR.ARPA. It would receive two RRs in response:

```
10.IN-ADDR.ARPA.          PTR MILNET-GW.ISI.EDU.
10.IN-ADDR.ARPA.          PTR GW.LCS.MIT.EDU.
```

The program could then originate QTYPE=A, QCLASS=IN queries for MILNET-GW.ISI.EDU. and GW.LCS.MIT.EDU. to discover the Internet addresses of these gateways.

A resolver which wanted to find the host name corresponding to Internet host address 10.0.0.6 would pursue a query of the form QTYPE=PTR,

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QCLASS=IN, QNAME=6.0.0.10.IN-ADDR.ARPA, and would receive:

```
6.0.0.10.IN-ADDR.ARPA.     PTR MULTICS.MIT.EDU.
```

Several cautions
apply to the use of these services:

- Since the IN-ADDR.ARPA special domain and the normal domain for a particular host or gateway will be in different zones, the possibility exists that that the data may be inconsistent.

- Gateways will often have two names in separate domains, only one of which can be primary.

- Systems that use the domain database to initialize their routing tables must start with enough gateway information to guarantee that they can access the appropriate name server.

- The gateway data only reflects the existence of a gateway in a manner equivalent to the current HOSTS.TXT file. It doesn't replace the dynamic availability information from GGP or EGP.

3.6. Defining new types, classes, and special namespaces

The previously defined types and classes are the ones in
use as of the
date of this memo. New definitions should be expected. This section makes some recommendations to designers considering additions to the existing facilities. The mailing list NAMEDROPPERS@SRI-NIC.ARPA is the forum where general discussion of design issues takes place.

In general, a new type is appropriate when new information is to be added to the database about an existing object, or we need new data formats for some totally new object. Designers should accept to define types and their RDATA formats that are generally applicable to all classes, and which avoid duplication of information. New classes are appropriate when the DNS is to be used for a new protocol, etc which requires new class-specific data formats, or when a copy of the existing name space is desired, but a separate management domain is necessary.

New types and classes need mnemonics for master files; the format of the master files requires that the mnemonics for type and class be disjoint.

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TYPE and
CLASS values must be a proper subset of QTYPEs and QCLASSes respectively.

The present system uses multiple RRs to represent multiple values of a type rather than storing multiple values in the RDATA section of a single RR. This is less efficient for most applications, but does keep RRs shorter. The multiple RRs assumption is incorporated in some experimental work on dynamic update methods.

The present system attempts to minimize the duplication of data in the database in order to insure consistency. Thus, in order to find the address of the host for a mail exchange, you map the mail domain name to a host name, then the host name to addresses, rather than a direct mapping to host address. This approach is preferred because it avoids the opportunity for inconsistency.

In defining a new type of data, multiple RR types should not be used to create an ordering between entries or express different formats for equivalent bindings, instead this information should be carried in the body
of the RR and a single type used. This policy avoids problems with caching multiple types and defining QTYPEs to match multiple types.

For example, the original form of mail exchange binding used two RR types one to represent a "closer" exchange (MD) and one to represent a "less close" exchange (MF). The difficulty is that the presence of one RR type in a cache doesn't convey any information about the other because the query which acquired the cached information might have used a QTYPE of MF, MD, or MAILA (which matched both). The redesigned

service used a single type (MX) with a "preference" value in the RDATA section which can order different RRs. However, if any MX RRs are found in the cache, then all should be there.

4. MESSAGES

4.1. Format

All communications inside of the domain protocol are carried in a single

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format called
a message. The top level format of message is divided
into 5 sections (some of which are empty in certain cases) shown below:

```
+---------------------+
|       Header        |
+---------------------+
|      Question       | the question for the name server
+---------------------+
|       Answer        | RRs answering the question
+---------------------+
|     Authority       | RRs pointing toward an authority
+---------------------+
|     Additional      | RRs holding additional information
+---------------------+
```

The header section is always present. The header includes fields that specify which of the remaining sections are present, and also specify whether the message is a query or a response, a standard query or some other opcode, etc.

The names of the sections after the header are derived from their use in standard queries. The question section contains fields that describe a question to a name server. These fields are a query type
(QTYPE), a
query class (QCLASS), and a query domain name (QNAME). The last three sections have the same format: a possibly empty list of concatenated resource records (RRs). The answer section contains RRs that answer the question; the authority section contains RRs that point toward an authoritative name server; the additional records section contains RRs which relate to the query, but are not strictly answers for the question.

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4.1.1. Header section format

The header contains the following fields:

```
                                1  1  1  1  1  1
  0  1  2  3  4  5  6  7  8  9  0  1  2  3  4  5
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
|                      ID                       |
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
|QR|   Opcode  |AA|TC|RD|RA|   Z    |   RCODE   |

+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
|                    QDCOUNT                    |
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
|                    ANCOUNT                    |
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
|                    NSCOUNT                    |
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
|                    ARCOUNT                    |
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
```

where:

ID A 16 bit identifier assigned by the program that generates any kind of query. This identifier is copied the corresponding reply and can be used by the requester to match up replies to outstanding queries.

QR A one bit field that specifies whether this message is a query (0), or a response (1).

OPCODE A four bit field that specifies kind of query in this message. This value is set by the originator of a query and copied into the response. The values are:

0 a standard query (QUERY)

1 an inverse query (IQUERY)

2 a server status request (STATUS)

3-15 reserved for future use

AA Authoritative Answer - this bit is valid in responses, and specifies that the responding name server is an authority for the domain name in question section.

Note that the contents of the answer section may have
multiple owner names because of aliases. The AA bit

corresponds to the name which matches the query name, or
the first owner name in the answer section.

TC TrunCation - specifies
that this message was truncated
due to length greater than that permitted on the
transmission channel.

RD Recursion Desired - this bit may be set in a query and
is copied into the response. If RD is set, it directs
the name server to pursue the query recursively.
Recursive query support is optional.

RA Recursion Available - this be is set or cleared in a
response, and denotes whether recursive query support is
available in the name server.

Z Reserved for future use. Must be zero in all queries
and responses.

RCODE Response code - this 4 bit field is set as part of
responses. The values have the following
interpretation:

0 No error condition

1 Format error - The name server was
unable
to interpret the query.

2 Server failure - The name server was
unable to process this query due to a
problem with the name server.

3 Name Error - Meaningful only for
responses from an authoritative name
server, this code signifies that the

domain name referenced in the query does
not exist.

4 Not Implemented - The name server does
not support the requested kind of query.

5 Refused - The name server refuses to
perform the specified operation for
policy reasons. For example, a name
server may not wish to provide the

information to the particular requester,
or a name server may not wish to perform
a particular operation (e.g., zone

transfer) for particular data.

6-15 Reserved for future use.

QDCOUNT an unsigned 16 bit integer specifying the number of
entries in the question section.

ANCOUNT an unsigned 16 bit integer specifying the number of
resource records in the answer section.

NSCOUNT an unsigned 16 bit integer specifying the number of name
server resource records in the authority records
section.

ARCOUNT an unsigned 16 bit integer specifying the number of
resource records in the additional records section.

4.1.2.
Question section format

The question section is used to carry the "question" in most queries,
i.e., the parameters that define what is being asked. The section
contains QDCOUNT (usually 1) entries, each of the following format:

```
                    1  1  1  1  1  1
  0  1  2  3  4  5  6  7  8  9  0  1  2  3  4  5
```

```
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
|                               |
/                QNAME                /
/                               /
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
|                QTYPE                |
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
|                QCLASS               |
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
```

where:

QNAME a domain name represented as a sequence of labels, where each label consists of a length octet followed by that

number of octets. The domain name terminates with the zero length octet for the null label of the root. Note that this field may be an odd number of octets; no padding is used.

QTYPE a two octet code which specifies the type of the query. The values for this field include all codes valid for a TYPE field, together with some more general codes which can match more than one type of RR.

QCLASS a two octet code that specifies the class of the query. For example, the QCLASS field is IN for the Internet.

4.1.3. Resource record format

The answer, authority, and additional sections all share the same format: a variable number of resource records, where the number of records is specified in the corresponding count field in the header.
Each resource record has the following format:

```
                    1  1  1  1  1  1
  0  1  2  3  4  5  6  7  8  9  0  1  2  3  4  5
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
|                               |
/                               /
/                NAME                 /
```

```
|                                               |
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
|                    TYPE                       |
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
|                    CLASS                      |
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
|                    TTL                        |
|                                               |
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
|                  RDLENGTH                     |
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--|
/
                   RDATA                       /
/                                               /
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
```

where:

NAME a domain name to which this resource record pertains.

TYPE two octets containing one of the RR type codes. This field specifies the meaning of the data in the RDATA field.

CLASS two octets which specify the class of the data in the RDATA field.

TTL a 32 bit unsigned integer that specifies the time interval (in seconds) that the resource record may be cached before it should be discarded. Zero values are interpreted to mean that the RR can only be used for the transaction in progress, and should not be cached.

RDLENGTH
an unsigned 16 bit integer that specifies the length in octets of the RDATA field.

RDATA a variable length string of octets that describes the resource. The format of this information varies

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according to the TYPE and CLASS of the resource record.
For example, the if the TYPE is A and the CLASS is IN,
the RDATA field is a 4 octet ARPA Internet address.

4.1.4. Message compression

In order to reduce the size of messages, the domain system utilizes a compression scheme which eliminates the repetition of domain names in a message. In this scheme, an entire domain name or a list of labels at the end of a domain name is replaced with a pointer to a prior occurance of the same name.

The pointer takes the form of a two octet sequence:

```
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
| 1  1|                OFFSET                   |
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
```

The
first two bits are ones. This allows a pointer to be distinguished from a label, since the label must begin with two zero bits because labels are restricted to 63 octets or less. (The 10 and 01 combinations are reserved for future use.) The OFFSET field specifies an offset from the start of the message (i.e., the first octet of the ID field in the domain header). A zero offset specifies the first byte of the ID field, etc.

The compression scheme allows a domain name in a message to be represented as either:

- a sequence of labels ending in a zero octet

- a pointer

- a sequence of labels ending with a pointer

Pointers can only be used for occurances of a domain name where the format is not class specific. If this were not the case, a name server or resolver would be required to know the format of all RRs it handled. As yet, there are no such cases, but they may occur in future RDATA formats.

If a domain name is contained in a part of the message subject to
a
length field (such as the RDATA section of an RR), and compression is

used, the length of the compressed name is used in the length calculation, rather than the length of the expanded name.

Programs are free to avoid using pointers in messages they generate, although this will reduce datagram capacity, and may cause truncation. However all programs are required to understand arriving messages that contain pointers.

For example, a datagram might need to use the domain names F.ISI.ARPA, FOO.F.ISI.ARPA, ARPA, and the root. Ignoring the other fields of the message, these domain names might be represented as:

```
   +--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
20 |          1          |          F          |
   +--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
22 |          3          |          I          |
   +--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
24 |          S          |          I          |
   +--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
26 |          4          |          A          |
   +--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
28 |          R          |          P          |
   +--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
30 |          A          |          0          |
   +--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+

   +--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
40 |          3          |          F          |
   +--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
42 |          O          |          O          |
   +--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
44 | 1  1|               20                    |
   +--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+

   +--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
64 | 1  1|
26                    |
   +--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+

   +--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
92 |          0          |                     |
   +--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
```

The domain name for F.ISI.ARPA is shown at offset 20. The domain name FOO.F.ISI.ARPA is shown at offset 40; this definition uses a pointer to concatenate a label for FOO to the previously defined F.ISI.ARPA. The domain name ARPA is defined at offset 64 using a pointer to the ARPA component of the name F.ISI.ARPA at 20; note that this pointer relies on ARPA being the last label in the string at 20. The root domain name is

defined by a single octet of zeros at 92; the root domain name has no labels.

4.2. Transport

The DNS assumes that messages will be transmitted as datagrams or in a
byte stream carried by a virtual circuit. While virtual circuits can be used for any DNS activity, datagrams are preferred for queries due to their lower overhead and better performance. Zone refresh activities must use virtual circuits because of the need for reliable transfer.

The Internet supports name server access using TCP [RFC-793] on server port 53 (decimal) as well as datagram access using UDP [RFC-768] on UDP port 53 (decimal).

4.2.1. UDP usage

Messages sent using UDP user server port 53 (decimal).

Messages carried by UDP are restricted to 512 bytes (not counting the IP or UDP headers). Longer messages are truncated and the TC bit is set in the header.

UDP is not acceptable for zone transfers, but is the recommended method for standard queries in the Internet. Queries sent using UDP may be lost, and hence a retransmission strategy is required. Queries or their responses may be reordered by the network, or by processing in name servers, so resolvers should not
depend on them being returned in order.

The optimal UDP retransmission policy will vary with performance of the Internet and the needs of the client, but the following are recommended:

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- The client should try other servers and server addresses before repeating a query to a specific address of a server.

- The retransmission interval should be based on prior statistics if possible. Too aggressive retransmission can easily slow responses for the community at large. Depending on how well connected the client is to its expected servers, the minimum retransmission interval should be 2-5 seconds.

More suggestions on server selection and retransmission policy can be found in the resolver section of this memo.

4.2.2. TCP usage

Messages sent over TCP connections use server port 53 (decimal). The message is prefixed with a two byte length field which gives the message

length, excluding the two byte length field. This length field allows the low-level processing to assemble a complete message before beginning to parse it.

Several connection management policies are recommended:

- The server should not block other activities waiting for TCP data.

- The server should support multiple connections.

- The server should assume that the client will initiate connection closing, and should delay closing its end of the connection until all outstanding client requests have been satisfied.

- If the server needs to close a dormant connection to reclaim resources, it should wait until the connection has been idle for a period on the order of two minutes. In particular, the server should allow the SOA and AXFR request sequence (which begins a refresh operation) to be made on a single connection. Since the server would be unable to answer queries

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anyway, a
unilateral close or reset may be used instead of a graceful
close.

5. MASTER FILES

Master files are text files that contain RRs in text form. Since the contents of a zone can be expressed in the form of a list of RRs a master file is most often used to define a zone, though it can be used to list a cache's contents. Hence, this section first discusses the format of RRs in a master file, and then the special considerations when a master file is used to create a zone in some name server.

5.1. Format

The format of these files is a sequence of entries. Entries are predominantly line-oriented, though parentheses can be used to continue a list of items across a line boundary, and text literals can contain CRLF within the text. Any combination of tabs and spaces act as a delimiter between the separate items that make up an entry. The end of any line in the master file can end with a comment. The comment starts with a ";" (semicolon).

The following entries are
defined:

<blank>[<comment>]

$ORIGIN <domain-name> [<comment>]

$INCLUDE <file-name> [<domain-name>] [<comment>]

<domain-name><rr> [<comment>]

<blank><rr> [<comment>]

Blank lines, with or without comments, are allowed anywhere in the file.

Two control entries are defined: $ORIGIN and $INCLUDE. $ORIGIN is followed by a domain name, and resets the current origin for relative

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domain names to the stated name. $INCLUDE inserts the named file into the current file, and may optionally specify a domain name that sets the relative domain name origin for the included file. $INCLUDE may also have a comment. Note that a $INCLUDE entry never changes the relative origin of the parent file, regardless of changes to the relative origin made within the included file.

The last two forms represent RRs. If an entry for an RR begins with a blank, then the RR is assumed to be owned by the last stated owner. If an RR entry begins with a <domain-name>, then the owner name is reset.

<rr> contents take one of the following forms:

[<TTL>] [<class>] <type> <RDATA>

[<class>] [<TTL>] <type> <RDATA>

The RR begins with optional TTL and class fields, followed by a type and RDATA field appropriate to the type and class. Class and type use the standard mnemonics, TTL is a decimal integer. Omitted class and TTL values are default to the last explicitly stated values. Since type and class mnemonics are disjoint, the parse is unique. (Note that this order is different from the order used in examples and the order used in the actual RRs; the given order allows easier parsing and defaulting.)

<domain-name>s make up a large share of the data in the master file. The labels in the domain name are expressed as character strings and separated by dots. Quoting conventions allow arbitrary characters to be stored in domain names. Domain names that end in a dot are called absolute, and are taken as complete. Domain names which do not end in a dot are called relative; the actual domain name is the concatenation of the relative part with an origin specified in a $ORIGIN, $INCLUDE, or as an argument to the master file loading routine. A relative name is an error when no origin is available.

<character-string> is expressed in one or two ways: as a contiguous set of characters without interior spaces, or as a string beginning with a "

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and ending with a ". Inside a " delimited string any character can occur, except for a " itself, which must be quoted using \ (back slash).

Because these files are text files several special encodings are necessary to allow arbitrary data to be loaded. In particular:

of the root.

@
A free standing @ is used to denote the current origin.

\X where X is any character other than a digit (0-9), is used to quote that character so that its special meaning does not apply. For example, "\." can be used to place a dot character in a label.

\DDD where each D is a digit is the octet corresponding to the decimal number described by DDD. The resulting octet is assumed to be text and is not checked for special meaning.

( ) Parentheses are used to group data that crosses a line boundary. In effect, line terminations are not recognized within parentheses.

; Semicolon is used to start a comment; the remainder of the line is ignored.

5.2. Use of master files to define zones

When a master file is used to load a zone, the operation should be suppressed if any errors are encountered in the master file. The rationale for this is that a single error can have widespread consequences. For example, suppose that the RRs defining a delegation have syntax errors; then the server will return authoritative name errors for all names in the subzone (except in the case where the subzone is also present on the server).

Several other validity checks that should be performed in addition to insuring that the file is syntactically correct:

1. All RRs in the file should have the same class.

2. Exactly one SOA RR should be present at the top of the zone.

3. If delegations are present and glue information is required, it should be present.

4. Information present outside of the authoritative nodes in the zone should be glue information, rather than the result of an origin or similar error.

5.3. Master file example

The following is an example file which might be used to define the ISI.EDU zone.and is loaded with an origin of ISI.EDU:

```
@   IN  SOA     VENERA      Action\.domains (
                        20     ; SERIAL
                        7200   ; REFRESH
                        600    ; RETRY
                        3600000; EXPIRE
                        60)    ; MINIMUM

      NS      A.ISI.EDU.
      NS      VENERA
      NS      VAXA
      MX      10      VENERA
      MX      20      VAXA

A       A       26.3.0.103

VENERA  A       10.1.0.52
      A       128.9.0.32

VAXA    A       10.2.0.27
      A       128.9.0.33


$INCLUDE <SUBSYS>ISI-MAILBOXES.TXT
```

Where the file <SUBSYS>ISI-MAILBOXES.TXT is:

```
  MOE     MB      A.ISI.EDU.
  LARRY   MB      A.ISI.EDU.
  CURLEY  MB      A.ISI.EDU.
  STOOGES MG      MOE
```

```
        MG      LARRY
        MG      CURLEY
```

Note the use of the \ character in the SOA
RR to specify the responsible
person mailbox "Action.domains@E.ISI.EDU".

6. NAME SERVER IMPLEMENTATION

6.1. Architecture

The optimal structure for the name server will depend on the host operating system and whether the name server is integrated with resolver operations, either by supporting recursive service, or by sharing its database with a resolver. This section discusses implementation considerations for a name server which shares a database with a resolver, but most of these concerns are present in any name server.

6.1.1. Control

A name server must employ multiple concurrent activities, whether they are implemented as separate tasks in the host's OS or multiplexing inside a single name server program. It is simply not acceptable for a name server to block the service of UDP requests while it waits for TCP data for refreshing
or query activities. Similarly, a name server
should not attempt to provide recursive service without processing such requests in parallel, though it may choose to serialize requests from a single client, or to regard identical requests from the same client as duplicates. A name server should not substantially delay requests while it reloads a zone from master files or while it incorporates a newly refreshed zone into its database.

6.1.2. Database

While name server implementations are free to use any internal data structures they choose, the suggested structure consists of three major

parts:

- A "catalog" data structure which lists the zones available to this server, and a "pointer" to the zone data structure. The main purpose of this structure is to find the nearest ancestor zone, if any, for arriving standard queries.

- Separate data structures for each of the zones held by the name server.

- A data structure for cached data. (or perhaps separate caches for different classes)

All of these data structures can be implemented an identical tree structure format, with different data chained off the nodes in different parts: in the catalog the data is pointers to zones, while in the zone and cache data structures, the data will be RRs. In designing the tree framework the designer should recognize that query processing will need to traverse the tree using case-insensitive label comparisons; and that

in real data, a few nodes have a very high branching factor (100-1000 or more), but the vast majority have a very low branching factor (0-1).

One way to solve the case problem is to store the labels for each node in two pieces: a standardized-case representation of the label where all ASCII characters are in a single case, together with a bit mask that denotes which characters are actually of a different case. The branching factor diversity can be handled using a simple linked list for a node until the branching factor exceeds some threshold, and transitioning to a hash structure after the threshold is exceeded. In any case, hash structures used to store tree sections must insure that hash functions and procedures preserve the casing conventions of the DNS.

The use of separate structures for the different parts of the database is motivated by several factors:

- The catalog structure can be an almost static structure that need change only when the system administrator changes the

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zones supported by the server. This structure can also be used to store parameters used to control refreshing activities.

- The individual data structures for zones allow a zone to be replaced simply by changing a pointer in the catalog. Zone refresh operations can build a new structure and, when complete, splice it into the database via a simple pointer replacement. It is very important that when a zone is refreshed, queries should not use old and new data simultaneously.

- With the proper search procedures, authoritative data in zones will always "hide", and hence take precedence over, cached data.

- Errors in zone definitions that cause overlapping zones, etc., may cause erroneous responses to queries, but problem determination is simplified, and the contents of one "bad" zone can't corrupt another.

- Since the cache is most frequently updated, it is most vulnerable to corruption during system restarts. It can also become full of expired RR data. In either case, it can easily be discarded without disturbing zone data.

A major aspect of database design is selecting a structure which allows the name server to deal with crashes of the name server's host. State information which a name server should save across system crashes

includes the catalog structure (including the state of refreshing for each zone) and the zone data itself.

6.1.3. Time

Both the TTL data for RRs and the timing data for refreshing activities depends on 32 bit timers in units of seconds. Inside the database, refresh timers and TTLs for cached data conceptually "count down", while data in the zone stays with constant TTLs.

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A recommended implementation strategy is to store time in two ways: as a relative increment and as an absolute time. One way to do this is to use positive 32 bit numbers for one type and negative numbers for the other. The RRs in zones use relative times; the refresh timers and cache data use absolute times. Absolute numbers are taken with respect to some known origin and converted to relative values when placed in the response to a query. When an absolute TTL is negative after conversion to relative, then the data is expired and should be ignored.

6.2. Standard query processing

The major algorithm for standard query processing is presented in [RFC-1034].

When processing queries with QCLASS=*, or some other QCLASS which matches multiple classes, the response should never be authoritative unless the server can guarantee that the response covers all classes.

When composing a response, RRs which are to be inserted in the additional section, but duplicate RRs in the answer or authority sections, may be omitted from the additional section.

When a response is so long that truncation is required, the truncation should start at the end of the response and work forward in the datagram. Thus if there is any data for the authority section, the answer section is guaranteed to be unique.

The MINIMUM value in the SOA should be used to set a floor on the TTL of data distributed from a zone. This floor function should be done when the data is copied into a response. This will allow future dynamic update protocols to change the SOA MINIMUM field without ambiguous semantics.

6.3. Zone refresh and reload processing

In spite of a server's best efforts, it may be unable to load zone data from a master file due to syntax errors, etc., or be unable to refresh a zone within the its expiration parameter. In this case, the name server

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should answer queries as if it were not supposed to possess the zone.

If a master is sending a zone out via AXFR, and a new version is created during the transfer, the master should continue to send the old version if possible. In any case, it should never send part of one version and part of another. If completion is not possible, the master should reset the connection on which the zone transfer is taking place.

6.4. Inverse queries (Optional)

Inverse queries are an optional part of the DNS. Name servers are not required to support any form of inverse queries. If a name server receives an inverse query that it does not support, it returns an error response with the "Not Implemented" error set in the header. While inverse query support is optional, all name servers must be at least able to return the error response.

6.4.1. The contents of inverse queries and responses Inverse queries reverse the mappings performed by standard query operations; while a standard query maps a domain name to a resource, an inverse query maps a resource to a domain name. For example, a standard query might bind a domain name to a host address; the corresponding inverse query binds the host address to a domain name.

Inverse queries take the form of a single RR in the answer section of the message, with an empty question section. The owner name of the query RR and its TTL are not significant. The response carries questions in the question section which identify all names possessing the query RR WHICH THE NAME SERVER KNOWS. Since no name server knows about all of the domain name space, the response can never be assumed to be complete. Thus inverse queries are primarily useful for database management and debugging activities. Inverse queries are NOT an acceptable method of mapping host addresses to host names; use the IN-ADDR.ARPA domain instead.

Where possible, name servers should provide case-insensitive comparisons for inverse queries. Thus an inverse query asking for an MX RR of "Venera.isi.edu" should get the same response as a query for "VENERA.ISI.EDU"; an inverse query for HINFO RR "IBM-PC UNIX" should produce the same result as an inverse query for "IBM-pc unix". However, this cannot be guaranteed because name servers may possess RRs that contain character strings but the name server does not know that the data is character.

When a name server processes an inverse query, it either returns:

1. zero, one, or multiple domain names for the specified resource as QNAMEs in the question section

2. an error code indicating that the name server doesn't support inverse mapping of the specified resource type.

When the response to an inverse query contains one or more QNAMEs, the owner name and TTL of the RR in the answer section which defines the inverse query is modified to exactly match an RR found at the first QNAME.

RRs returned in the inverse queries cannot be cached using the same mechanism as is used for the replies to standard queries. One reason for this is that a name might have multiple RRs of the same type, and only one would appear. For example, an inverse query for a single address of a multiply homed host might create the impression that only one address existed.

6.4.2. Inverse query and response example The overall structure of an inverse query for retrieving the domain name that corresponds to Internet address 10.1.0.52 is shown below:

```
                +----------------------------------------+
     Header     |        OPCODE=IQUERY, ID=997           |
                +----------------------------------------+
    Question    |              <empty>                   |
                +----------------------------------------+
     Answer     |      <anyname> A IN 10.1.0.52          |
                +----------------------------------------+
   Authority    |              <empty>                   |
                +----------------------------------------+
  Additional    |              <empty>                   |
                +----------------------------------------+
```

This query asks for a question whose answer is the Internet style address 10.1.0.52. Since the owner name is not known, any domain name can be used as a placeholder (and is ignored). A single octet of zero,

signifying the root, is usually used because it minimizes the length of the message. The TTL of the RR is not significant. The response to this query might be:


```
                +-----------------------------------------+
     Header     |        OPCODE=RESPONSE, ID=997          |
                +-----------------------------------------+
    Question    |QTYPE=A, QCLASS=IN, QNAME=VENERA.ISI.EDU |
                +-----------------------------------------+
     Answer     | VENERA.ISI.EDU  A IN 10.1.0.52          |
                +-----------------------------------------+
    Authority   |                <empty>                  |
                +-----------------------------------------+
    Additional  |                <empty>                  |
                +-----------------------------------------+
```

Note that the QTYPE in a response to an inverse query is the same as the TYPE field in the answer section of the inverse query. Responses to inverse queries may contain multiple questions when the inverse is not unique. If the question section in the response is not empty, then the RR in the answer section is modified to correspond to be an exact copy of an RR at the first QNAME.

6.4.3. Inverse query processing

Name servers that support inverse queries can support these operations through exhaustive searches of their databases, but this becomes impractical as the size of the database increases. An alternative approach is to invert the database according to the search key.

For name servers that support multiple zones and a large amount of data, the recommended approach is separate inversions for each zone. When a particular zone is changed during a refresh, only its inversions need to be redone.

Support for transfer of this type of inversion may be included in future versions of the domain system, but is not supported in this version.

6.5. Completion queries and responses

The optional completion services described in RFC-882 and RFC-883 have been deleted. Redesigned services may become available in the future.

7. RESOLVER IMPLEMENTATION

The top levels of the recommended resolver algorithm are discussed in [RFC-1034]. This section discusses implementation details assuming the database structure suggested in the name server implementation section of this memo.

7.1. Transforming a user request into a query

The first step a resolver takes is to transform the client's request, stated in a format suitable to the local OS, into a search specification for RRs at a specific name which match a specific QTYPE and QCLASS. Where possible, the QTYPE and QCLASS should correspond to a single type and a single class, because this makes the use of cached data much simpler. The reason for this is that the presence of data of one type in a cache doesn't confirm the existence or non-existence of data of

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other types, hence the only way to be sure is to consult an authoritative source. If QCLASS=* is used, then authoritative answers won't be available.

Since a resolver must be able to multiplex multiple requests if it is to perform its function efficiently, each pending request is usually represented in some block of state information. This state block will typically contain:

- A timestamp indicating the time the request began.
  The timestamp is used to decide whether RRs in the database can be used or are out of date. This timestamp uses the absolute time format previously discussed for RR storage in zones and caches. Note that when an RRs TTL indicates a relative time, the RR must be timely, since it is part of a zone. When the RR has an absolute time, it is part of a cache, and the TTL of the RR is compared against the timestamp for the start of the request.

  Note that using the timestamp is superior to using a current time, since it allows RRs with TTLs of zero to be entered in the cache in the usual manner, but still used by the current request, even after intervals of many seconds due to system load, query retransmission timeouts, etc.

- Some sort of parameters to limit the amount of work which will be performed for this request.

  The amount of work which a resolver will do in response to a client request must be limited to guard against errors in the database, such as circular CNAME references, and operational problems, such as network partition which prevents the

resolver from accessing the name servers it needs. While local limits on the number of times a resolver will retransmit a particular query to a particular name server address are essential, the resolver should have a global per-request counter to limit work on a single request. The counter should be set to some initial value and decremented whenever the

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resolver performs any action (retransmission timeout, retransmission, etc.) If the counter passes zero, the request is terminated with a temporary error.

Note that if the resolver structure allows one request to start others in parallel, such as when the need to access a name server for one request causes a parallel resolve for the name server's addresses, the spawned request should be started with a lower counter. This prevents circular references in the database from starting a chain reaction of resolver activity.

- The SLIST data structure discussed in [RFC-1034].

This structure keeps track of the state of a request if it must wait for answers from foreign name servers.

7.2. Sending the queries

As described in [RFC-1034], the basic task of the resolver is to formulate a query which will answer the client's request and direct that query to name servers which can provide the information. The resolver will usually only have very strong hints about which servers to ask, in the form of NS RRs, and may have to revise the query, in response to CNAMEs, or revise the set of name servers the resolver is asking, in response to delegation responses which point the resolver to name servers closer to the desired information. In addition to the information requested by the client, the resolver may have to call upon its own services to determine the address of name servers it wishes to contact.

In any case, the model used in this memo assumes that the resolver is multiplexing attention between multiple requests, some from the client, and some internally generated. Each request is represented by some state information, and the desired behavior is that the resolver transmit queries to name servers in a way that maximizes the probability that the request is answered, minimizes the time that the request takes, and avoids excessive transmissions. The key algorithm uses the state information of the request to select the next name server address to query, and also computes a timeout which will cause the next action should a response not arrive. The next action will usually be a transmission to some other server, but may be a temporary error to the

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client.

The resolver always starts with a list of server names to query (SLIST). This list will be all NS RRs which correspond to the nearest ancestor zone that the resolver knows about. To avoid startup problems, the resolver should have a set of default servers which it will ask should it have no current NS RRs which are appropriate. The resolver then adds to SLIST all of the known addresses for the name servers, and may start parallel requests to acquire the addresses of the servers when the resolver has the name, but no addresses, for the name servers.

To complete initialization of SLIST, the resolver attaches whatever history information it has to the each address in SLIST. This will usually consist of some sort of weighted averages for the response time of the address, and the batting average of the address (i.e., how often the address responded at all to the request). Note that this information should be kept on a per address basis, rather than on a per name server basis, because the response time and batting average of a particular server may vary considerably from address to address. Note also that this information is actually specific to a resolver address / server address pair, so a resolver with multiple addresses may wish to keep separate histories for each of its addresses. Part of this step must deal with addresses which have no such history; in this case an expected round trip time of 5-10 seconds should be the worst case, with lower estimates for the same local network, etc.

Note that whenever a delegation is followed, the resolver algorithm reinitializes SLIST.

The information establishes a partial ranking of the available name server addresses. Each time an address is chosen and the state should be altered to prevent its selection again until all other addresses have been tried. The timeout for each transmission should be 50-100% greater than the average predicted value to allow for variance in response.

Some fine points:

- The resolver may encounter a situation where no addresses are available for any of the name servers named in SLIST, and where the servers in the list are precisely those which would normally be used to look up their own addresses. This

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situation typically occurs when the glue address RRs have a smaller TTL than the NS RRs marking delegation, or when the resolver caches the result of a NS search. The resolver should detect this condition and restart the search at the next ancestor zone, or alternatively at the root.

- If a resolver gets a server error or other bizarre response from a name server, it should remove it from SLIST, and may wish to schedule an immediate transmission to the next candidate server address.

7.3. Processing responses

The first step in processing arriving response datagrams is to parse the response. This procedure should include:

- Check
the header for reasonableness. Discard datagrams which are queries when responses are expected.

- Parse the sections of the message, and insure that all RRs are correctly formatted.

- As an optional step, check the TTLs of arriving data looking for RRs with excessively long TTLs. If a RR has an excessively long TTL, say greater than 1 week, either discard the whole response, or limit all TTLs in the response to 1 week.

The next step is to match the response to a current resolver request. The recommended strategy is to do a preliminary matching using the ID field in the domain header, and then to verify that the question section corresponds to the information currently desired. This requires that the transmission algorithm devote several bits of the domain ID field to a request identifier of some sort. This step has several fine points:

- Some name servers send their responses from different addresses than the one used to receive the query.

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That is, a
resolver cannot rely that a response will come from the same address which it sent the corresponding query to. This name server bug is typically encountered in UNIX systems.

- If the resolver retransmits a particular request to a name server it should be able to use a response from any of the transmissions. However, if it is using the response to sample the round trip time to access the name server, it must be able to determine which transmission matches the response (and keep transmission times for each outgoing message), or only calculate round trip times based on initial transmissions.

- A name server will occasionally not have a current copy of a zone which it should have according to some NS RRs. The resolver should simply remove the name server from the current SLIST, and continue.

7.4. Using the cache

In general, we expect a resolver to cache all data which it receives in responses since it may be useful in answering future client requests. However, there are several types of data which should not be cached:

- When several RRs of the same type are available for a particular owner name, the resolver should either cache them all or none at all. When a response is truncated, and a resolver doesn't know whether it has a complete set, it should not cache a possibly partial set of RRs.

- Cached data should never be used in preference to authoritative data, so if caching would cause this to happen the data should not be cached.

- The results of an inverse query should not be cached.

- The results of standard queries where the QNAME contains "*" labels if the data might be used to construct wildcards. The reason is that the cache does not necessarily contain existing

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RRs or zone boundary information which is necessary to restrict the application of the wildcard RRs.

- RR data in responses of dubious reliability. When a resolver receives unsolicited responses or RR data other than that requested, it should discard it without caching it. The basic implication is that all sanity checks on a packet should be performed before any of it is cached.

In a similar vein, when a resolver has a set of RRs for some name in a response, and wants to cache the RRs, it should check its cache for already existing RRs. Depending on the circumstances, either the data in the response or the cache is preferred, but the two should never be combined. If the data in the response is from authoritative data in the answer section, it is always preferred.

8. MAIL SUPPORT

The domain system defines a standard for mapping mailboxes into domain names, and two methods for using the mailbox information to derive mail routing information. The first method is called mail exchange binding and the other method is mailbox binding. The mailbox encoding standard and mail exchange binding are part of the DNS official protocol, and are the recommended method for mail routing in the Internet. Mailbox binding is an experimental feature which is still under development and subject to change.

The mailbox encoding standard assumes a mailbox name of the form "<local-part>@<mail-domain>". While the syntax allowed in each of these sections varies substantially between the various mail internets, the preferred syntax for the ARPA Internet is given in [RFC-822].

The DNS encodes the <local-part> as a single label, and encodes the <mail-domain> as a domain name. The single label from the <local-part> is prefaced to the domain name from <mail-domain> to form the domain name corresponding to the mailbox. Thus the mailbox HOSTMASTER@SRI-NIC.ARPA is mapped into the domain name HOSTMASTER.SRI-NIC.ARPA. If the

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<local-part> contains dots or other special characters, its representation in a master file will require the use of backslash quoting to ensure that the domain name is properly encoded. For example, the mailbox Action.domains@ISI.EDU would be represented as Action\.domains.ISI.EDU.

8.1. Mail exchange binding

Mail exchange binding uses the <mail-domain> part of a mailbox specification to determine where mail should be sent. The <local-part> is not even consulted. [RFC-974] specifies this method in detail, and should be consulted before attempting to use mail exchange support.

One of the advantages of this method is that it decouples mail destination naming from the hosts used to support mail service, at the cost of another layer of indirection in the lookup function. However, the addition layer should eliminate the need for complicated "%", "!", etc encodings in
<local-part>.

The essence of the method is that the <mail-domain> is used as a domain name to locate type MX RRs which list hosts willing to accept mail for <mail-domain>, together with preference values which rank the hosts according to an order specified by the administrators for <mail-domain>.

In this memo, the <mail-domain> ISI.EDU is used in examples, together with the hosts VENERA.ISI.EDU and VAXA.ISI.EDU as mail exchanges for ISI.EDU. If a mailer had a message for Mockapetris@ISI.EDU, it would route it by looking up MX RRs for ISI.EDU. The MX RRs at ISI.EDU name VENERA.ISI.EDU and VAXA.ISI.EDU, and type A queries can find the host addresses.

8.2. Mailbox binding (Experimental)

In mailbox binding, the mailer uses the entire mail destination specification to construct a domain name. The encoded domain name for the mailbox is used as the QNAME field in a QTYPE=MAILB query.

Several outcomes are possible for this query:

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1. The query can return a name error indicating that the mailbox does not exist as a domain name.

   In the long term, this would indicate that the specified mailbox doesn't exist. However, until the use of mailbox binding is universal, this error condition should be interpreted to mean that the organization identified by the global part does not support mailbox binding. The appropriate procedure is to revert to exchange binding at this point.

2. The query can return a Mail Rename (MR) RR.

   The MR RR carries new mailbox specification in its RDATA field. The mailer should replace the old mailbox with the new one and retry the operation.

3. The query can return a MB RR.

   The MB RR carries a domain name for a host in its RDATA field. The mailer should deliver the message to that host via whatever
protocol is applicable, e.g., b,SMTP.

4. The query can return one or more Mail Group (MG) RRs.

   This condition means that the mailbox was actually a mailing list or mail group, rather than a single mailbox. Each MG RR has a RDATA field that identifies a mailbox that is a member of the group. The mailer should deliver a copy of the message to each member.

5. The query can return a MB RR as well as one or more MG RRs.

   This condition means the the mailbox was actually a mailing list. The mailer can either deliver the message to the host specified by the MB RR, which will in turn do the delivery to all members, or the mailer can use the MG RRs to do the expansion itself.

In any of these cases, the response may include a Mail Information (MINFO) RR. This RR is usually associated with a mail group, but is legal with a MB. The MINFO RR identifies two mailboxes. One of these identifies a responsible person for the original
mailbox name. This
mailbox should be used for requests to be added to a mail group, etc.
The second mailbox name in the MINFO RR identifies a mailbox that should receive error messages for mail failures. This is particularly

appropriate for mailing lists when errors in member names should be reported to a person other than the one who sends a message to the list.

New fields may be added to this RR in the future.

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INFORMATIONAL
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Application Techniques for Checking and Transformation of Names

Status of this Memo

This memo provides information for the Internet community. It does not specify an Internet standard of any kind. Distribution of this memo is unlimited.

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Abstract

Many Internet applications have been designed to deduce top-level domains (or other domain name labels) from partial information. The introduction of new top-level domains, especially non-country-code

ones, has exposed flaws in some of the methods used by these applications. These flaws make it more difficult, or impossible, for users of the applications to access the full Internet. This memo discusses some of the techniques that have been used and gives some guidance for minimizing their negative impact as the domain name environment evolves. This document draws summaries of the applicable rules together in one place and supplies references to the actual standards.

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1. Introduction

Designers of user interfaces to Internet applications have often found it useful to examine user-provided values for validity before passing them to the Internet tools themselves. This type of test, most commonly involving syntax checks or application of other rules to domain names, email addresses, or "web addresses" (URLs or, occasionally, extended URI forms (see Section 4)) may enable better-quality diagnostics for the user than might be available from the protocol itself. Local validity tests on values are also thought to improve the efficiency of back-office processing programs and to reduce the load on the protocols themselves. Certainly, they are consistent with the well-established principle that it is better to detect errors as early as possible.

The tests must, however, be made correctly or at least safely. If criteria are applied that do not match the protocols, users will be inconvenienced, addresses and sites will effectively become inaccessible to some groups, and business and communications opportunities will be lost. Experience in recent years indicates that syntax tests are often performed incorrectly and that tests for top-level domain names are applied using obsolete lists and conventions. We assume that most of these incorrect tests are the result of the inability to conveniently locate exact definitions for the criteria to be applied. This document draws summaries of the applicable rules together in one place and supplies references to the

actual standards. It does not add anything to those standards; it merely draws the information together into a form that may be more

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accessible.

Many experts on Internet protocols believe that tests and rules of these sorts should be avoided in applications and that the tests in the protocols and back-office systems should be relied on instead. Certainly implementations of the protocols cannot assume that the data passed to them will be valid. Unless the standards specify particular behavior, this document takes no position on whether or not the testing is desirable. It only identifies the correct tests to be made if tests are to be applied.

The sections that follow discuss domain names, email addresses, and URLs.

2. Restrictions on domain (DNS) names

The authoritative definitions of the format and syntax of domain names appear in RFCs 1035 [RFC1035], 1123 [RFC1123], and 2181 [RFC2181].

Any characters, or combination of bits (as octets), are permitted in DNS names. However, there is a preferred form that is required by most applications. This preferred form has been the only one permitted in the names of top-level domains, or TLDs. In general, it is also the only form permitted in most second-level names registered in TLDs, although some names that are normally not seen by users obey other rules. It derives from the original ARPANET rules for the naming of hosts (i.e., the "hostname" rule) and is perhaps better described as the "LDH rule", after the characters that it permits. The LDH rule, as updated, provides that the labels (words or strings separated by periods) that make up a domain name must consist of only the ASCII [ASCII] alphabetic and numeric characters, plus the hyphen. No other symbols or punctuation characters are permitted, nor is blank space. If the hyphen is used, it is not permitted to appear at either the beginning or end of a label. There is an additional rule that essentially requires that top-level domain names not be all-numeric.

When it is necessary to express labels with non-character octets, or to embed periods within labels, there is a mechanism for keying them in that utilizes an escape sequence. RFC 1035 [RFC1035] should be consulted if that mechanism is needed (most common applications, including email and the Web, will generally not permit those escaped strings). A special encoding is now available for non-ASCII characters, see the brief discussion in Section 5.

Most internet applications that reference other hosts or systems assume they will be supplied with "fully-qualified" domain names, i.e., ones that include all of the labels leading to the root, including the TLD name. Those fully-qualified domain names are then passed to either the domain name resolution protocol itself or to the remote systems. Consequently, purported DNS names to be used in applications and to locate resources generally must contain at least one period (".") character. Those that do not are either invalid or require the application to supply additional information. Of course, this principle does not apply when the purpose of the application is to process or query TLD names themselves. The DNS specification also permits a trailing period to be used to denote the root, e.g., "a.b.c" and "a.b.c." are equivalent, but the latter is more explicit and is required to be accepted by applications. This convention is especially important when a TLD name is being referred to directly. For example, while ".COM" has become the popular terminology for referring to that top-level domain, "COM." would be strictly and technically correct in talking about the DNS, since it shows that "COM" is a top-level domain name.

There is a long history of applications moving beyond the "one or more periods" test in an attempt to verify that a valid TLD name is actually present. They have done this either by applying some heuristics to the form of the name or by consulting a local list of valid names. The historical heuristics are no longer effective. If one is to keep a local list, much more effort must be devoted to keeping it up-to-date than was the case several years ago.

The heuristics were based on the observation that, since the DNS was first deployed, all top-level domain names were two, three, or four characters in length. All two-character names were associated with "country code" domains, with the specific labels (with a few early exceptions) drawn from the ISO list of codes for countries and similar entities [IS3166]. The three-letter names were "generic" TLDs, whose function was not country-specific, and there was exactly one four-letter TLD, the infrastructure domain "ARPA." [RFC1591]. However, these length-dependent rules were conventions, rather than

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anything on which the protocols depended.

Before the mid-1990s, lists of valid top-level domain names changed infrequently. New country codes were gradually, and then more rapidly, added as the Internet expanded, but the list of generic domains did not change at all between the establishment of the "INT." domain in 1988 and ICANN's allocation of new generic TLDs in 2000. Some application developers responded by assuming that any two-letter domain name could be valid as a TLD, but the list of generic TLDs was fixed and could be kept locally and tested. Several of these assumptions changed as ICANN started to allocate new top-level

domains: one two-letter domain that does not appear in the ISO 3166-1 table [ISO.3166.1988] was tentatively approved, and new domains were created with three, four, and even six letter codes.

As of the first quarter of 2003, the list of valid, non-country, top-level domains was .AERO, .BIZ, .COM, .COOP, .EDU, .GOV, .INFO, .INT, .MIL, .MUSEUM, .NAME, .NET, .ORG, .PRO, and .ARPA. ICANN is expected to expand that list at regular intervals, so the list that appears here should not be used in testing. Instead, systems that filter by testing top-level domain names should regularly update their local tables of TLDs (both "generic" and country-code-related) by polling the list published by IANA [DomainList]. It is likely that the better strategy has now become to make the "at least one period" test, to verify LDH conformance (including verification that the apparent TLD name is not all-numeric), and then to use the DNS to determine domain name validity, rather than trying to maintain a local list of valid TLD names.

A DNS label may be no more than 63 octets long. This is in the form actually stored; if a non-ASCII label is converted to encoded "punycode" form (see Section 5), the length of that form may restrict the number of actual characters (in the original character set) that can be accommodated. A complete, fully-qualified, domain name must not exceed 255 octets.

Some additional

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mechanisms for guessing correct domain names when incomplete information is provided have been developed for use with the web and are discussed in Section 4.4.

3. Restrictions on email addresses

Reference documents: RFC 2821 [RFC2821] and RFC 2822 [RFC2822]

Contemporary email addresses consist of a "local part" separated from a "domain part" (a fully-qualified domain name) by an at-sign ("@"). The syntax of the domain part corresponds to that in the previous section. The concerns identified in that section about filtering and lists of names apply to the domain names used in an email context as well. The domain name can also be replaced by an IP address in square brackets, but that form is strongly discouraged except for testing and troubleshooting purposes.

The local part may appear using the quoting conventions described below. The quoted forms are rarely used in practice, but are required for some legitimate purposes. Hence, they should not be rejected in filtering routines but, should instead be passed to the email system for evaluation by the destination host.

The exact rule is that any ASCII character, including control characters, may appear quoted, or in a quoted string. When quoting is needed, the backslash character is used to quote the following character. For example

Abc\@def@example.com

is a valid form of an email address. Blank spaces may also appear, as in

Fred\ Bloggs@example.com

The backslash character may also be used to quote itself, e.g.,

Joe.\\Blow@example.com

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In addition to quoting using the backslash character, conventional double-quote characters may be used to surround strings. For example

"Abc@def"@example.com

"Fred Bloggs"@example.com

are alternate forms of the first two examples above. These quoted forms are rarely recommended, and are uncommon in practice, but, as discussed above, must be supported by applications that are processing email addresses. In particular, the quoted forms often appear in the context of addresses associated with transitions from other systems and contexts; those transitional requirements do still arise and, since a system that accepts a user-provided email address cannot "know" whether that address is associated with a legacy system, the address forms must be accepted and passed into the email environment.

Without quotes, local-parts may consist of any combination of alphabetic characters, digits, or any of the special characters

! # $ % & ' * + - / = ? ^ _ ` . { | } ~

period (".") may also appear, but may not be used to start or end the local part, nor may two or more consecutive periods appear. Stated differently, any ASCII graphic (printing) character other than the at-sign ("@"), backslash, double quote, comma, or square brackets may appear without quoting. If any of that list of excluded characters are to appear, they must be quoted. Forms such as

user+mailbox@example.com

customer/department=shipping@example.com

$A12345@example.com

!def!xyz%abc@example.com

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_somename@example.com

are valid and are seen fairly regularly, but any of the characters listed above are permitted. In the context of local parts, apostrophe ("'") and acute accent ("`") are ordinary characters, not quoting characters. Some of the characters listed above are used in conventions about routing or other types of special handling by some receiving hosts. But, since there is no way to know whether the remote host is using those conventions or just treating these characters as normal text, sending programs (and programs evaluating address validity) must simply accept the strings and pass them on.

In addition to restrictions on syntax, there is a length limit on email addresses. That limit is a maximum of 64 characters (octets) in the "local part" (before the "@") and a maximum of 255 characters (octets) in the domain part (after the "@") for a total length of 320 characters. Systems that handle email should be prepared to process addresses which are that long, even though they are rarely encountered.

4. URLs and URIs

4.1. URI syntax definitions and issues

The syntax for URLs (Uniform Resource Locators) is specified in [RFC1738]. The syntax for the more general "URI" (Uniform Resource Identifier) is specified in [RFC2396]. The URI syntax is extremely general, with considerable variations permitted according to the type of "scheme" (e.g., "http", "ftp", "mailto") that is being used. While it is possible to use the general syntax rules of RFC 2396 to perform syntax checks, they are general enough --essentially only specifying the separation of the scheme name and "scheme specific part" with a colon (":") and excluding some characters that must be escaped if used-- to provide little significant filtering or validation power.

The following characters are reserved in many URIs -- they must be used for either their URI-intended purpose or must be encoded. Some particular schemes may either broaden or relax these restrictions (see the following sections for URLs applicable to "web pages" and electronic mail), or apply them only to particular URI component parts.

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; / ? : @ & = + $, ?

In addition, control characters, the space character, the double-quote (") character,
and the following special characters

< > # %

are generally forbidden and must either be avoided or escaped, as discussed below.

The colon after the scheme name, and the percent sign used to escape characters, are specifically reserved for those purposes, although ":" may also be used elsewhere in some schemes.

When it is necessary to encode these, or other, characters, the method used is to replace it with a percent-sign ("%") followed by two hexidecimal digits representing its octet value. See section 2.4.1 of [RFC2396] for an exact definition. Unless it is used as a delimiter of the URI scheme itself, any character may optionally be encoded this way; systems that are testing URI syntax should be prepared for these encodings to appear in any component of the URI except the scheme name itself.

A "generic URI" syntax is specified and is more restrictive, but using it to test URI strings requires that one know whether or not

the particular scheme in use obeys that syntax. Consequently, applications that intend to check or validate URIs should normally identify the scheme name and then apply scheme-specific tests. The rules for two of those -- HTTP [RFC1738] and MAILTO [RFC2368] URLs -- are discussed below, but the author of an application which intends to make very precise checks, or to reject particular syntax rather than just warning the user, should consult the relevant scheme-definition documents for precise syntax and relationships.

4.2. The HTTP URL

Absolute HTTP URLs consist of the scheme name, a host name (expressed as a domain name or IP address), and optional port number, and then, optionally, a path, a search part, and a fragment identifier. These are separated, respectively, by a colon and the two slashes that precede the host name, a colon, a slash, a question mark, and a hash mark ("#"). So we have

http://host:port/path?search#fragment

http://host/path/

http://host/path#fragment

http://host/path?search

http://host

and other variations on that form. There is also a "relative" form, but it almost never appears in text that a user might, e.g., enter into a form. See [RFC2616] for details.

The characters

/ ; ?

are reserved within the path and search parts and must be encoded; the first of these may be used unencoded, and is often used within the path, to designate hierarchy.

4.3. The MAILTO URL

MAILTO is a URL type whose content is an email address. It can be used to encode any of the email address formats discussed in Section 3 above. It can also support multiple addresses and the inclusion of headers (e.g., Subject lines) within the body of the URL. MAILTO is authoritatively defined in RFC 2368 [RFC2368]; anyone expecting to accept and test multiple addresses or mail header or body formats should consult that document carefully.

In accepting text for, or validating, a MAILTO URL, it is important to note that, while it can be used to encode any valid email address, it is not sufficient to copy an email address into a MAILTO URL since email addresses may include a number of characters that are invalid in, or have reserved uses for, URLs. Those characters must be encoded, as outlined in Section 4.1 above, when the addresses are mapped into the URL form. Conversely, addresses in MAILTO URLs

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cannot, in general, be copied directly into email contexts, since few email programs will reverse the decodings (and doing so might be interpreted as a protocol violation).

The following characters may appear in MAILTO URLs only with the specific defined meanings given. If they appear in an email address (i.e., for some other purpose), they must be encoded:

: The colon in "mailto:"

< > # " % { } | \ ^ ~ `

These characters are "unsafe" in any URL, and must always be encoded.

The following characters must also be encoded if they appear in a MAILTO URL

? & =
Used to delimit headers and their values when these are encoded into URLs.

Some examples may be helpful:

Email address	MAILTO URL	Notes
Joe@example.com	mailto:joe@example.com	1
user+mailbox@example.com	mailto:user%2Bmailbox@example.com	2
customer/department=shipping@example.com	mailto:customer%2Fdepartment=shipping@example.com	3
$A12345@example.com	mailto:$A12345@example	4

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```
|                    |        .com            |        |
|                    |                        |        |
| !def!xyz%abc@example  | mailto:!def!xyz%25abc     |    5    |
|        .com         |      @example.com        |        |
|                    |                        |        |
| _somename@example.com | mailto:_somename@example  |    4
  |
|                    |        .com            |        |
+------------------------+----------------------------+-----------+
```

Table 1

Notes on Table

1. No characters appear in the email address that require escaping, so the body of the MAILTO URL is identical to the email address.

2. There is actually some uncertainty as to whether or not the "+" characters requires escaping in MAILTO URLs (the standards are not precisely clear). But, since any character in the address specification may optionally be encoded, it is probably safer to encode it.

3. The "/" character is generally reserved in URLs, and must be encoded as %2F.

4. Neither the "$" nor the "_" character are given any special interpretation in
MAILTO URLs, so need not be encoded.

5. While the "!" character has no special interpretation, the "%" character is used to introduce encoded sequences and hence it must always be encoded.

4.4. Guessing domain names in web contexts

Several web browsers have adopted a practice that permits an incomplete domain name to be used as input instead of a complete URL. This has, for example, permitted users to type "microsoft" and have the browser interpret the input as "http://www.microsoft.com/".

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Other browser versions have gone even further, trying to build DNS names up through a series of heuristics, testing each variation in turn to see if it appears in the DNS, and accepting the first one found as the intended domain name. Still, others automatically invoke search engines if no period appears or if the reference fails. If any of these approaches are to be used, it is often critical that the browser recognize the complete list of TLDs. If an incomplete list is used, complete domain names may not be recognized as such and the system may try to turn them into completely different names. For example, "example.aero" is a fully-qualified name, since "AERO." is a TLD name. But, if the system doesn't recognize "AERO" as a TLD name, it is likely to try to look up "example.aero.com" and "www.example.aero.com" (and then fail or find the wrong host), rather than simply looking up the user-supplied name.

As discussed in Section 2 above, there are dangers associated with software that attempts to "know" the list of top-level domain names locally and take advantage of that knowledge. These name-guessing heuristics are another example of that situation: if the lists are up-to-date and used carefully, the systems in which they are embedded may provide an easier, and more attractive, experience for at least some users. But finding the wrong host, or being unable to find a host even when its name is precisely known, constitute bad experiences by any measure.

More generally, there have been bad experiences with attempts to "complete" domain names by adding additional information to them. These issues are described in some detail in RFC 1535 [RFC1535].

5. Implications of internationalization

The IETF has adopted a series of proposals ([RFC3490] - [RFC3492]) whose purpose is to permit encoding internationalized (i.e., non-ASCII) names in the DNS. The primary standard, and the group generically, are known as "IDNA". The actual strings stored in the

DNS are in an encoded form: the labels begin with the characters "xn--" followed by the encoded string. Applications should be prepared to accept and process the encoded form (those strings are

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consistent with the "LDH rule" (see
Section 2) so should not raise
any separate issues) and the use of local, and potentially other,
characters as appropriate to local systems and circumstances.

The IDNA specification describes the exact process to be used to
validate a name or encoded string. The process is sufficiently
complex that shortcuts or heuristics, especially for versions of
labels written directly in Unicode or other coded character sets, are
likely to fail and cause problems. In particular, the strings cannot
be validated with syntax or semantic rules of any of the usual sorts:
syntax validity is defined only in terms of the result of executing a
particular function.

In addition to the restrictions imposed by the protocols themselves,
many domains are implementing rules about just which non-ASCII names
they will permit to be registered (see, e.g., [JET], [RegRestr]).
This work is still relatively new, and the rules and conventions are
likely to be different for
each domain, or at least each language or
script group. Attempting to test for those rules in a client program
to see if a user-supplied name might possibly exist in the relevant
domain would almost certainly be ill-advised.

One quick local test however, may be reasonable: as of the time of
this writing, there should be no instances of labels in the DNS that
start with two characters, followed by two hyphens, where the two
characters are not "xn" (in, of course, either upper or lower case).
Such label strings, if they appear, are probably erroneous or
obsolete, and it may be reasonable to at least warn the user about
them.

There is ongoing work in the IETF and elsewhere to define
internationalized formats for use in other protocols, including email
addresses. Those forms may or may not conform to existing rules for
ASCII-only identifiers; anyone designing evaluators or filters should
watch that work closely.

6. Summary

When an application
accepts a string from the user and ultimately
passes it on to an API for a protocol, the desirability of testing or
filtering the text in any way not required by the protocol itself is
hotly debated. If it must divide the string into its components, or
otherwise interpret it, it obviously must make at least enough tests
to validate that process. With, e.g., domain names or email
addresses that can be passed on untouched, the appropriateness of

trying to figure out which ones are valid and which ones are not requires a more complex decision, one that should include considerations of how to make exactly the correct tests and to keep information that changes and evolves up-to-date. A test containing obsolete information, can be extremely frustrating for potential correspondents or customers
and may harm desired relationships.

7. Security Considerations

Since this document merely summarizes the requirements of existing standards, it does not introduce any new security issues. However, many of the techniques that motivate the document raise important security concerns of their own. Rejecting valid forms of domain names, email addresses, or URIs often denies service to the user of those entities. Worse, guessing at the user's intent when an incomplete address, or other string, is given can result in compromises to privacy or accuracy of reference if the wrong target is found and returned. From a security standpoint, the optimum behavior is probably to never guess, but instead, to force the user to specify exactly what is wanted. When that position involves a tradeoff with an acceptable user experience, good judgment should be used and the fact that it is a tradeoff recognized.

Some characters have special or privileged meanings
on some systems
(i.e., ` on Unix). Applications should be careful to escape those locally if necessary. By the same token, they are valid, and should not be disallowed locally, or escaped when transmitted through Internet protocols, for such reasons if a remote site chooses to use them.

The presence of local checking does not permit remote checking to be bypassed. Note that this can apply to a single machine; in particular, a local MTA should not assume that a local MUA has properly escaped locally-significant special characters.

8. Acknowledgements

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The first Internet-Draft on this subject was posted in February 2003. The document was submitted to the RFC Editor on 20 June 2003, returned
for revisions on 19 August, and resubmitted on 5 September 2003.

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[DomainList] Internet Assigned Numbers Authority (IANA), Untitled

alphabetical list of current top-level domains.
http://data.iana.org/TLD/tlds-alpha-by-domain.txt
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Found in path(s):
* /opt/cola/permits/2308999132_1736194787.2494197/0/mikel-mail-2-3-1-0-g2cc19d5-tar-gz/mikel-mail-2cc19d5/reference/rfc3696 Checking and Transformation of Names.txt
No license file was found, but licenses were detected in source scan.

Network Working Group P. Resnick, Editor
Request for Comments: 2822 QUALCOMM Incorporated
Obsoletes: 822 April 2001
Category: Standards Track

Internet Message Format

Status of this Memo

This document specifies an Internet standards track protocol for the Internet community, and requests discussion and suggestions for improvements. Please refer to the current edition of the "Internet Official Protocol Standards" (STD 1) for the standardization state and status of this protocol. Distribution of this memo is unlimited.

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Abstract

This standard specifies a syntax for text messages that are sent between computer users, within the framework of "electronic mail" messages. This standard supersedes the one specified in Request For Comments (RFC) 822, "Standard for the Format of ARPA Internet Text Messages", updating it to reflect current practice and incorporating incremental changes that were specified in other RFCs.

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1. Introduction

1.1. Scope

This standard specifies a syntax for text messages that are sent between computer users, within the framework of "electronic mail" messages. This standard supersedes the one specified in Request For Comments (RFC) 822, "Standard for the Format of ARPA Internet Text Messages" [RFC822], updating it to reflect current practice and incorporating incremental changes that were specified in other RFCs [STD3].

This standard specifies a syntax only for text messages. In particular,
it makes no provision for the transmission of images,
audio, or other sorts of structured data in electronic mail messages.

There are several extensions published, such as the MIME document series [RFC2045, RFC2046, RFC2049], which describe mechanisms for the transmission of such data through electronic mail, either by extending the syntax provided here or by structuring such messages to conform to this syntax. Those mechanisms are outside of the scope of this standard.

In the context of electronic mail, messages are viewed as having an envelope and contents. The envelope contains whatever information is needed to accomplish transmission and delivery. (See [RFC2821] for a discussion of the envelope.) The contents comprise the object to be delivered to the recipient. This standard applies only to the format and some of the semantics of message contents. It contains no specification of the information in the envelope.

However, some message systems may use information from the contents to create the envelope. It is intended that this standard facilitate the acquisition of such information by programs.

This specification is intended as a definition of what message content format is to be passed between systems. Though some message systems locally store messages in this format (which eliminates the need for translation between formats) and others use formats that differ from the one specified in this standard, local storage is outside of the scope of this standard.

Note: This standard is not intended to dictate the internal formats used by sites, the specific message system features that they are expected to support, or any of the characteristics of user interface programs that create or read messages. In addition, this standard does not specify an encoding of the characters for either transport or storage; that is, it does not specify the number of bits used or how those bits are specifically transferred over the wire or stored on disk.

1.2. Notational conventions

1.2.1. Requirements notation

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This document occasionally uses terms that appear in capital letters. When the terms "MUST", "SHOULD", "RECOMMENDED", "MUST NOT", "SHOULD NOT", and "MAY" appear capitalized, they are being used to indicate particular requirements of this specification. A discussion of the meanings of these terms appears in [RFC2119].

1.2.2. Syntactic notation

This standard uses the Augmented Backus-Naur Form (ABNF) notation specified in [RFC2234] for the formal definitions of the syntax of messages. Characters will be specified either by a decimal value (e.g., the value %d65 for uppercase A and %d97 for lowercase A) or by a case-insensitive literal value enclosed in quotation marks (e.g., "A" for either uppercase or lowercase A). See [RFC2234] for the full description of the notation.

1.3. Structure of this document

This document is divided into several sections.

This section, section 1, is a short introduction to the document.

Section 2 lays out the general description of a message and its constituent parts. This is an overview to help the reader understand some of the general principles used in the later portions of this document. Any examples in this section MUST NOT be taken as specification of the formal syntax of any part of a message.

Section 3 specifies formal ABNF rules for the structure of each part of a message (the syntax) and describes the relationship between those parts and their meaning in the context of a message (the semantics). That is, it describes the actual rules for the structure of each part of a message (the syntax) as well as a description of the parts and instructions on how they ought to be interpreted (the semantics). This includes analysis of the syntax and semantics of

subparts of messages that have specific structure. The syntax included in section 3 represents messages as they MUST be created. There are also notes in section 3 to indicate if any of the options specified in the syntax SHOULD be used over any of the others.

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Both sections 2 and 3 describe messages that are legal to generate for purposes of this standard.

Section 4 of this document specifies an "obsolete" syntax. There are references in section 3 to these obsolete syntactic elements. The rules of the obsolete syntax are elements that have appeared in earlier revisions of this standard or have previously been widely used in Internet messages. As such, these elements MUST be interpreted by parsers of messages in order to be conformant to this standard. However, since items in this syntax have been determined to be non-interoperable or to cause significant problems for recipients of messages, they MUST NOT be generated by creators of conformant messages.

Section 5 details security considerations to take into account when implementing this standard.

Section 6 is a bibliography of references in this document.

Section 7 contains the editor's address.

Section 8 contains acknowledgements.

Appendix A lists examples of different sorts of messages. These examples are not exhaustive of the types of messages that appear on the Internet, but give a broad overview of certain syntactic forms.

Appendix B lists the differences between this standard and earlier standards for Internet messages.

Appendix C has copyright and intellectual property notices.

2. Lexical Analysis of Messages

2.1. General Description

At the most basic level, a message is a series of characters. A message that is conformant with this standard is comprised of characters with values in the range 1 through 127 and interpreted as US-ASCII characters [ASCII]. For brevity, this document sometimes refers to this range of characters as simply "US-ASCII characters".

Note: This standard specifies that messages are made up of characters in the US-ASCII range of 1 through 127. There are other documents, specifically the MIME document series [RFC2045, RFC2046, RFC2047, RFC2048, RFC2049], that extend this standard to allow for values outside of that range. Discussion of those mechanisms is not within the scope of this standard.

Messages are divided into lines of characters. A line is a series of characters that is delimited with the two characters carriage-return and line-feed;
that is, the carriage return (CR) character (ASCII value 13) followed immediately by the line feed (LF) character (ASCII value 10). (The carriage-return/line-feed pair is usually written in this document as "CRLF".)

A message consists of header fields (collectively called "the header of the message") followed, optionally, by a body. The header is a sequence of lines of characters with special syntax as defined in this standard. The body is simply a sequence of characters that follows the header and is separated from the header by an empty line (i.e., a line with nothing preceding the CRLF).

2.1.1. Line Length Limits

There are two limits that this standard places on the number of characters in a line. Each line of characters MUST be no more than 998 characters, and SHOULD be no more than 78 characters, excluding the CRLF.

The 998 character limit is due to limitations in many implementations which send, receive, or store Internet
Message Format messages that
simply cannot handle more than 998 characters on a line. Receiving implementations would do well to handle an arbitrarily large number of characters in a line for robustness sake. However, there are so many implementations which (in compliance with the transport requirements of [RFC2821]) do not accept messages containing more than 1000 character including the CR and LF per line, it is important for implementations not to create such messages.

The more conservative 78 character recommendation is to accommodate the many implementations of user interfaces that display these

messages which may truncate, or disastrously wrap, the display of more than 78 characters per line, in spite of the fact that such implementations are non-conformant to the intent of this specification (and that of [RFC2821] if they actually cause information to be lost). Again, even though this limitation is put on messages, it is encumbant upon implementations which display messages

to handle an arbitrarily large number of characters in a line (certainly at least up to the 998 character limit) for the sake of robustness.

2.2. Header Fields

Header fields are lines composed of a field name, followed by a colon (":"), followed by a field body, and terminated by CRLF. A field name MUST be composed of printable US-ASCII characters (i.e., characters that have values between 33 and 126, inclusive), except colon. A field body may be composed of any US-ASCII characters, except for CR and LF. However, a field body may contain CRLF when used in header "folding" and "unfolding" as described in section 2.2.3. All field bodies MUST conform to the syntax described in sections 3 and 4 of this standard.

2.2.1. Unstructured Header Field Bodies

Some field bodies in this standard are defined simply as "unstructured" (which is specified below as any US-ASCII characters, except for CR and LF) with no further restrictions. These are referred to as unstructured field bodies. Semantically, unstructured field bodies are simply to be treated as a single line of characters with no further processing (except for header "folding" and "unfolding" as described in section 2.2.3).

2.2.2. Structured Header Field Bodies

Some field bodies in this standard have specific syntactical structure more restrictive than the unstructured field bodies described above. These are referred to as "structured" field bodies.

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Structured field bodies are sequences of specific lexical tokens as described in sections 3 and 4 of this standard. Many of these tokens are allowed (according to their syntax) to be introduced or end with comments (as described in section 3.2.3) as well as the space (SP, ASCII value 32)
and horizontal tab (HTAB, ASCII value 9) characters (together known as the white space characters, WSP), and those WSP characters are subject to header "folding" and "unfolding" as described in section 2.2.3. Semantic analysis of structured field bodies is given along with their syntax.

2.2.3. Long Header Fields

Each header field is logically a single line of characters comprising the field name, the colon, and the field body. For convenience however, and to deal with the 998/78 character limitations per line, the field body portion of a header field can be split into a multiple line representation; this is called "folding". The general rule is

that wherever this standard allows for folding white space (not simply WSP characters), a CRLF may be inserted before any WSP. For example, the header field:

```
Subject: This is a test
```

can be represented as:

```
Subject: This
 is a test
```

Note: Though structured field bodies are defined in such a way that folding can take place between many of the lexical tokens (and even within some of the lexical tokens), folding SHOULD be limited to placing the CRLF at higher-level syntactic breaks. For instance, if a field body is defined as comma-separated values, it is recommended that folding occur after the comma separating the structured items in preference to other places where the field could be folded, even if it is allowed elsewhere.

The process of moving from this folded multiple-line representation of a header field to its single line representation is called

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"unfolding". Unfolding is accomplished by simply removing any CRLF that is immediately followed by WSP. Each header field should be treated in its unfolded form for further syntactic and semantic evaluation.

2.3. Body

The body of a message is simply lines of US-ASCII characters. The only two limitations on the body are as follows:

- CR and LF MUST only occur together as CRLF; they MUST NOT appear independently in the body.

- Lines of characters in the body MUST be limited to 998 characters, and SHOULD be limited to 78 characters, excluding the CRLF.

Note: As was stated earlier, there are other standards documents, specifically the MIME documents [RFC2045, RFC2046, RFC2048, RFC2049] that extend this standard to allow for different sorts of message bodies. Again, these mechanisms are beyond the scope of this document.

3. Syntax

3.1. Introduction

The syntax as given in this section defines the legal syntax of Internet messages. Messages that are conformant to this standard MUST conform to the syntax in this section. If there are options in this section where one option SHOULD be generated, that is indicated either in the prose or in a comment next to the syntax.

For the defined expressions, a short description of the syntax and use is given, followed by the syntax in ABNF, followed by a semantic

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analysis. Primitive tokens that are used but otherwise unspecified come from [RFC2234].

In some of the definitions, there will be nonterminals whose names start with "obs-". These "obs-" elements refer to tokens defined in the obsolete syntax in section 4. In all cases, these productions are to be ignored for the purposes of generating legal Internet messages and MUST NOT be used as part of such a message. However, when interpreting messages, these tokens MUST be honored as part of the legal syntax. In this sense, section 3 defines a grammar for generation of messages, with "obs-" elements that are to be ignored, while
section 4 adds grammar for interpretation of messages.

3.2. Lexical Tokens

The following rules are used to define an underlying lexical analyzer, which feeds tokens to the higher-level parsers. This section defines the tokens used in structured header field bodies.

Note: Readers of this standard need to pay special attention to how these lexical tokens are used in both the lower-level and higher-level syntax later in the document. Particularly, the white space tokens and the comment tokens defined in section 3.2.3 get used in the lower-level tokens defined here, and those lower-level tokens are in turn used as parts of the higher-level tokens defined later. Therefore, the white space and comments may be allowed in the higher-level tokens even though they may not explicitly appear in a particular definition.

3.2.1. Primitive Tokens

The following are primitive tokens referred to elsewhere in this standard, but not otherwise defined in [RFC2234].
Some of them will
not appear anywhere else in the syntax, but they are convenient to refer to in other parts of this document.

Note: The "specials" below are just such an example. Though the specials token does not appear anywhere else in this standard, it is

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useful for implementers who use tools that lexically analyze messages. Each of the characters in specials can be used to indicate a tokenization point in lexical analysis.

```
NO-WS-CTL      =      %d1-8 /        ; US-ASCII control characters
                      %d11 /         ;  that do not include the
                      %d12 /         ;  carriage return, line feed,
                      %d14-31 /      ;  and white space characters
                      %d127

text           =      %d1-9 /        ; Characters excluding CR and LF
                       %d11 /
                      %d12 /
                      %d14-127 /
                      obs-text

specials       =      "(" / ")" /    ; Special characters used in
                      "<" / ">" /    ;  other parts of the syntax
                      "[" / "]" /
                      ":" / ";" /
                      "@" / "\" /
                      "," / "." /
                      DQUOTE
```

No special semantics are attached to these tokens. They are simply single characters.

3.2.2. Quoted characters

Some characters are reserved for special interpretation, such as delimiting lexical tokens. To permit use of these characters as uninterpreted data, a quoting mechanism is provided.

```
quoted-pair     =      ("\" text) / obs-qp
```

Where any quoted-pair appears, it is to be interpreted as the text character alone. That is to say, the "\" character that appears as part of a quoted-pair is semantically "invisible".

Note: The "\" character may appear in a message where it is not part of a quoted-pair. A "\" character that does not appear in a quoted-pair is not semantically invisible. The only places in this standard where quoted-pair currently appears are ccontent, qcontent, dcontent, no-fold-quote, and no-fold-literal.

3.2.3. Folding white space and comments

White space characters, including white space used in folding (described in section 2.2.3), may appear between many elements in header field bodies. Also, strings of characters that are treated as comments may be included in structured field bodies as characters enclosed in parentheses. The following defines the folding white space (FWS) and comment constructs.

Strings of characters enclosed in parentheses are considered comments so long as they
do not appear within a "quoted-string", as defined in section 3.2.5. Comments may nest.

There are several places in this standard where comments and FWS may be freely inserted. To accommodate that syntax, an additional token for "CFWS" is defined for places where comments and/or FWS can occur. However, where CFWS occurs in this standard, it MUST NOT be inserted in such a way that any line of a folded header field is made up entirely of WSP characters and nothing else.

```
FWS          =      ([*WSP CRLF] 1*WSP) /   ; Folding white space
                  obs-FWS

ctext        =      NO-WS-CTL /     ; Non white space controls

                  %d33-39 /       ; The rest of the US-ASCII
                  %d42-91 /       ;  characters not including "(",
                  %d93-126        ;  ")", or "\"

ccontent     =      ctext / quoted-pair / comment

comment      =      "(" *([FWS] ccontent) [FWS] ")"

CFWS         =
   *([FWS] comment) (([FWS] comment) / FWS)
```

Throughout this standard, where FWS (the folding white space token) appears, it indicates a place where header folding, as discussed in section 2.2.3, may take place. Wherever header folding appears in a message (that is, a header field body containing a CRLF followed by any WSP), header unfolding (removal of the CRLF) is performed before

any further lexical analysis is performed on that header field according to this standard. That is to say, any CRLF that appears in FWS is semantically "invisible."

A comment is normally used in a structured field body to provide some human readable informational text. Since a comment is allowed to contain FWS, folding is permitted within the comment. Also note that since quoted-pair is allowed in a comment, the parentheses and

backslash characters may appear in a comment so long as they appear as a quoted-pair. Semantically, the enclosing parentheses are not part of the comment; the comment is what is contained between the two parentheses. As stated earlier, the "\" in any quoted-pair and the CRLF in any FWS that appears within the comment are semantically "invisible" and therefore not part of the comment either.

Runs of FWS, comment or CFWS that occur between lexical tokens in a structured field header are semantically interpreted as a single space character.

3.2.4. Atom

Several productions in structured header field bodies are simply strings of certain basic characters. Such productions are called atoms.

Some of the structured header field bodies also allow the period character (".", ASCII value 46) within runs of atext. An additional "dot-atom" token is defined for those purposes.

```
atext       =    ALPHA / DIGIT / ; Any character except controls,
                 "!" / "#" /     ;  SP, and specials.
                 "$" / "%" /     ;  Used for atoms
                 "&" / "'" /
                 "*" / "+" /
                 "-" / "/" /
                 "=" / "?" /
                 "^" / "_" /
                 "`" / "{" /
```

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```
                "|" / "}" /
                "~"

atom          =     [CFWS] 1*atext [CFWS]

dot-atom      =     [CFWS] dot-atom-text [CFWS]

dot-atom-text  =    1*atext *("." 1*atext)
```

Both atom and dot-atom are interpreted as a single unit, comprised of the string of characters that make it up. Semantically, the optional comments and FWS surrounding the rest of the characters are not part of the atom; the atom is only the run of atext characters in an atom, or the atext and "." characters in a dot-atom.

3.2.5. Quoted strings

Strings of characters that include characters other than those allowed in atoms may be represented in a quoted string format, where the characters are surrounded by quote (DQUOTE, ASCII value 34) characters.

```
qtext         =     NO-WS-CTL /     ; Non white space controls

                %d33 /          ; The rest of the US-ASCII
                %d35-91 /       ;  characters not including "\"
                %d93-126        ;  or the quote character

qcontent      =     qtext / quoted-pair

quoted-string  =    [CFWS]
                DQUOTE *([FWS] qcontent) [FWS] DQUOTE
                [CFWS]
```

A quoted-string is treated as a unit. That is, quoted-string is identical to atom, semantically. Since a quoted-string is allowed to

contain FWS, folding is permitted. Also note that since quoted-pair is allowed in a quoted-string, the quote and backslash characters may appear in a quoted-string so long as they appear as a quoted-pair.

Semantically, neither the optional CFWS outside of the quote characters nor the quote characters themselves are part of the quoted-string; the quoted-string is what is contained between the two quote characters. As stated earlier, the "\" in any quoted-pair and the CRLF in any FWS/CFWS that appears within the quoted-string are semantically "invisible" and therefore not part of the quoted-string either.

3.2.6. Miscellaneous tokens

Three additional tokens are defined, word and phrase for combinations of atoms and/or quoted-strings, and unstructured for use in unstructured header fields and in some places within structured header fields.

```
word          =      atom / quoted-string

phrase        =      1*word / obs-phrase
```



```
utext         =      NO-WS-CTL /     ; Non white space controls
                     %d33-126 /      ; The rest of US-ASCII
                     obs-utext

unstructured  =      *([FWS] utext) [FWS]
```

3.3. Date and Time Specification

Date and time occur in several header fields. This section specifies the syntax for a full date and time specification. Though folding white space is permitted throughout the date-time specification, it

is RECOMMENDED that a single space be used in each place that FWS appears (whether it is required or optional); some older implementations may not interpret other occurrences of folding white space correctly.

```
date-time       =       [ day-of-week "," ] date FWS time [CFWS]

day-of-week     =       ([FWS] day-name) / obs-day-of-week

day-name        =       "Mon" / "Tue" / "Wed" / "Thu" /
                        "Fri" / "Sat" / "Sun"

date            =       day month year

year            =
      4*DIGIT / obs-year

month           =       (FWS month-name FWS) / obs-month

month-name      =       "Jan" / "Feb" / "Mar" / "Apr" /
                        "May" / "Jun" / "Jul" / "Aug" /
                        "Sep" / "Oct" / "Nov" / "Dec"

day             =       ([FWS] 1*2DIGIT) / obs-day

time            =       time-of-day FWS zone

time-of-day     =       hour ":" minute [ ":" second ]

hour            =       2DIGIT / obs-hour

minute          =       2DIGIT / obs-minute

second          =       2DIGIT / obs-second

zone            =       (( "+" / "-" ) 4DIGIT) / obs-zone
```


The day is the numeric day of the month. The year is any numeric year 1900 or later.

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The time-of-day specifies the number of hours, minutes, and optionally seconds since midnight of the date indicated.

The date and time-of-day SHOULD express local time.

The zone specifies the offset from Coordinated Universal Time (UTC, formerly referred to as "Greenwich Mean Time") that the date and time-of-day represent. The "+" or "-" indicates whether the time-of-day is ahead of (i.e., east of) or behind (i.e., west of) Universal Time. The first two digits indicate the number of hours difference from Universal Time, and the last two digits indicate the number of minutes difference from Universal Time. (Hence, +hhmm means +(hh * 60 + mm) minutes, and -hhmm means -(hh * 60 + mm) minutes). The form "+0000" SHOULD be used to indicate a time zone at Universal Time. Though "-0000" also indicates Universal Time, it is used to indicate that the time was generated on a system that may be in a local time zone other than Universal Time and therefore indicates that the date-time contains no information about the local time zone.

A date-time specification MUST be semantically valid. That is, the day-of-the-week (if included) MUST be the day implied by the date, the numeric day-of-month MUST be between 1 and the number of days allowed for the specified month (in the specified year), the time-of-day MUST be in the range 00:00:00 through 23:59:60 (the number of seconds allowing for a leap second; see [STD12]), and the zone MUST be within the range -9959 through +9959.

3.4. Address Specification

Addresses occur in several message header fields to indicate senders and recipients of messages. An address may either be an individual mailbox, or a group of mailboxes.

```
address        =      mailbox / group

mailbox        =      name-addr / addr-spec

name-addr      =      [display-name] angle-addr

angle-addr     =      [CFWS] "<" addr-spec ">" [CFWS] / obs-angle-addr

group          =      display-name ":" [mailbox-list / CFWS] ";"
                      [CFWS]
```

display-name = phrase

mailbox-list = (mailbox *("," mailbox)) / obs-mbox-list

address-list = (address *("," address)) / obs-addr-list

A mailbox receives mail. It is a conceptual entity which does not necessarily pertain to file storage. For example, some sites may choose to print mail on a printer and deliver the output to the addressee's desk. Normally, a mailbox is comprised of two parts: (1) an optional display name that indicates the name of the recipient (which could be a person or a system) that could be displayed to the user of a mail application, and (2) an addr-spec address enclosed in angle brackets ("<" and ">"). There is also an alternate simple form of a mailbox where the addr-spec address appears alone, without the recipient's name or the angle brackets. The Internet addr-spec address is described in section 3.4.1.

Note:
Some legacy implementations used the simple form where the addr-spec appears without the angle brackets, but included the name of the recipient in parentheses as a comment following the addr-spec. Since the meaning of the information in a comment is unspecified, implementations SHOULD use the full name-addr form of the mailbox, instead of the legacy form, to specify the display name associated with a mailbox. Also, because some legacy implementations interpret the comment, comments generally SHOULD NOT be used in address fields to avoid confusing such implementations.

When it is desirable to treat several mailboxes as a single unit (i.e., in a distribution list), the group construct can be used. The group construct allows the sender to indicate a named group of recipients. This is done by giving a display name for the group, followed by a colon, followed by a comma separated list of any number of mailboxes (including zero and one), and ending with a semicolon.
Because the list of mailboxes can be empty, using the group construct is also a simple way to communicate to recipients that the message was sent to one or more named sets of recipients, without actually

providing the individual mailbox address for each of those recipients.

3.4.1. Addr-spec specification

An addr-spec is a specific Internet identifier that contains a locally interpreted string followed by the at-sign character ("@", ASCII value 64) followed by an Internet domain. The locally interpreted string is either a quoted-string or a dot-atom. If the string can be represented as a dot-atom (that is, it contains no characters other than atext characters or "." surrounded by atext

characters), then the dot-atom form SHOULD be used and the quoted-string form SHOULD NOT be used. Comments and folding white space SHOULD NOT be used around the "@" in the addr-spec.

```
addr-spec       =       local-part "@" domain

local-part      =       dot-atom / quoted-string / obs-local-part

domain          =       dot-atom / domain-literal / obs-domain

domain-literal  =       [CFWS] "[" *([FWS] dcontent) [FWS] "]" [CFWS]

dcontent        =       dtext / quoted-pair

dtext           =       NO-WS-CTL /     ; Non white space controls

                        %d33-90 /       ; The rest of the US-ASCII
                        %d94-126        ;  characters not including "[",
                                        ;  "]", or "\"
```

The domain portion identifies the point to which the mail is delivered. In the dot-atom form, this is interpreted as an Internet domain name (either a host name or a mail exchanger name) as described in [STD3, STD13, STD14]. In the domain-literal form, the domain is interpreted as the literal Internet address of the particular host. In both cases, how addressing is used and how messages are transported to a particular host is covered in the mail

transport document [RFC2821]. These mechanisms are outside of the scope of this document.

The local-part portion is a domain dependent string. In addresses, it is simply interpreted on the particular host as a name of a particular mailbox.

3.5 Overall message syntax

A message consists of header fields, optionally followed by a message body. Lines in a message MUST be a maximum of 998 characters excluding the CRLF, but it is RECOMMENDED that lines be limited to 78 characters excluding the CRLF. (See section 2.1.1 for explanation.) In a message body, though all of the characters listed in the text rule MAY be used, the use of US-ASCII control characters (values 1 through 8, 11, 12, and 14 through 31) is discouraged since their interpretation by receivers for display is not guaranteed.


```
message      =     (fields / obs-fields)
                   [CRLF body]

body         =     *(*998text CRLF) *998text
```

The header fields carry most of the semantic information and are defined in section 3.6. The body is simply a series of lines of text which are uninterpreted for the purposes of this standard.

3.6. Field definitions

The header fields of a message are defined here. All header fields have the same general syntactic structure: A field name, followed by a colon, followed by the field body. The specific syntax for each header field is defined in the subsequent sections.

Note: In the ABNF syntax for each field in subsequent sections, each field name is followed by the required colon. However, for brevity

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sometimes the colon is not referred to in the textual description of the syntax. It is, nonetheless, required.

It is important to note that the header fields are not guaranteed to be in a particular order. They may appear in any order, and they have been known to be reordered occasionally when transported over the Internet. However, for the purposes of this standard, header fields SHOULD NOT be reordered when a message is transported or transformed. More importantly, the trace header fields and resent header fields MUST NOT be reordered, and SHOULD be kept in blocks prepended to the message. See sections 3.6.6 and 3.6.7 for more information.

The only required header fields are the origination date field and the originator address field(s). All other header fields are syntactically optional. More information is contained in the table following this definition.

```
fields        =      *(trace
                     *(resent-date /
                       resent-from /
                       resent-sender /

          resent-to /
                       resent-cc /
                       resent-bcc /
                       resent-msg-id))
                    *(orig-date /
                    from /
                    sender /
                    reply-to /
```



```
                    to /
                    cc /
                    bcc /
                    message-id /
                    in-reply-to /
                    references /
                    subject /
                    comments /
```

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keywords /
optional-field)

The following table indicates limits on the number of times each field may occur in a message header as well as any special limitations on the use of those fields. An asterisk next to a value in the minimum or maximum column indicates that a special restriction appears in the Notes column.

Field	Min number	Max number	Notes
trace	0	unlimited	Block prepended - see 3.6.7
resent-date	0*	unlimited*	One per block, required if other resent fields present - see 3.6.6
resent-from	0	unlimited*	One per block - see 3.6.6
resent-sender	0*	unlimited*	One per block, MUST occur with multi-address resent-from - see 3.6.6
resent-to	0	unlimited*	One per block - see 3.6.6
resent-cc	0	unlimited*	One per block - see 3.6.6
resent-bcc	0	unlimited*	One per block - see 3.6.6
resent-msg-id	0	unlimited*	One per block - see 3.6.6
orig-date	1	1	
from	1	1	See sender and 3.6.2

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sender 0* 1 MUST occur with multi-
address from - see 3.6.2

reply-to 0 1

to 0 1

cc 0 1

bcc 0 1

message-id 0* 1 SHOULD be present - see
3.6.4

in-reply-to 0*
1 SHOULD occur in some
replies - see 3.6.4

references 0* 1 SHOULD occur in some
replies - see 3.6.4

subject 0 1

comments 0 unlimited

keywords 0 unlimited

optional-field 0 unlimited

The exact interpretation of each field is described in subsequent sections.

3.6.1. The origination date field

The origination date field consists of the field name "Date" followed by a date-time specification.

orig-date = "Date:" date-time CRLF

The origination date specifies the date and time at which the creator of the message indicated that the message was complete and ready to enter the mail delivery system. For instance, this might be the time that a user pushes the "send" or "submit" button in an application program. In any case,
it is specifically not intended to convey the
time that the message is actually transported, but rather the time at

which the human or other creator of the message has put the message into its final form, ready for transport. (For example, a portable computer user who is not connected to a network might queue a message

for delivery. The origination date is intended to contain the date and time that the user queued the message, not the time when the user connected to the network to send the message.)

3.6.2. Originator fields

The originator fields of a message consist of the from field, the sender field (when applicable), and optionally the reply-to field. The from field consists of the field name "From" and a comma-separated list of one or more mailbox specifications. If the from field contains more than one mailbox specification in the mailbox-list, then the sender field, containing the field name "Sender" and a single mailbox specification, MUST appear in the message. In either case, an optional reply-to field MAY also be included, which contains the field name "Reply-To" and a comma-separated list of one or more addresses.

```
from        =    "From:" mailbox-list CRLF

sender      =    "Sender:" mailbox CRLF

reply-to    =    "Reply-To:" address-list CRLF
```

The originator fields indicate the mailbox(es) of the source of the message. The "From:" field specifies the author(s) of the message, that is, the mailbox(es) of the person(s) or system(s) responsible for the writing of the message. The "Sender:" field specifies the mailbox of the agent responsible for the actual transmission of the message. For example, if a secretary were to send a message for another person, the mailbox of the secretary would appear in the "Sender:" field and the mailbox of the actual author would appear in the "From:" field. If the originator of the message can be indicated by a single mailbox and the author and transmitter are identical, the "Sender:" field SHOULD NOT be used. Otherwise, both fields SHOULD appear.

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The originator fields also provide the information required when replying to a message. When the "Reply-To:" field is present, it indicates the mailbox(es) to which the author of the message suggests that replies be sent. In the absence of the "Reply-To:" field, replies SHOULD by default be sent to the mailbox(es) specified in the "From:" field unless otherwise specified by the person composing the reply.

In all cases, the "From:" field SHOULD NOT contain any mailbox that does not belong to the author(s) of the message. See also section 3.6.3 for more information on forming the destination addresses for a reply.

3.6.3. Destination address fields

The destination fields of a message consist of three possible fields, each of the same form: The field name, which is either "To", "Cc", or "Bcc", followed by a comma-separated list of one or more addresses (either mailbox or group syntax).

```
to          =     "To:" address-list CRLF

cc          =     "Cc:" address-list CRLF

bcc         =     "Bcc:" (address-list / [CFWS]) CRLF
```

The destination fields specify the recipients of the message. Each destination field may have one or more addresses, and each of the addresses indicate the intended recipients of the message. The only difference between the three fields is how each is used.

The "To:" field contains the address(es) of the primary recipient(s) of the message.

The "Cc:" field (where the "Cc" means "Carbon Copy" in the sense of making
a copy on a typewriter using carbon paper) contains the addresses of others who are to receive the message, though the content of the message may not be directed at them.

The "Bcc:" field (where the "Bcc" means "Blind Carbon Copy") contains addresses of recipients of the message whose addresses are not to be revealed to other recipients of the message. There are three ways in which the "Bcc:" field is used. In the first case, when a message containing a "Bcc:" field is prepared to be sent, the "Bcc:" line is removed even though all of the recipients (including those specified in the "Bcc:" field) are sent a copy of the message. In the second case, recipients specified in the "To:" and "Cc:" lines each are sent a copy of the message with the "Bcc:" line removed as above, but the recipients on the "Bcc:" line get a separate copy of the message containing a "Bcc:" line. (When there are multiple recipient addresses in the "Bcc:" field, some implementations actually send a separate copy of the message to each recipient with a "Bcc:" containing only the address of that particular recipient.) Finally, since a "Bcc:" field may contain no addresses, a "Bcc:" field can be sent without any addresses indicating to the recipients that blind copies were sent to someone. Which method to use with "Bcc:" fields is implementation dependent, but refer to the "Security Considerations" section of this document for a discussion of each.

When a message is a reply to another message, the mailboxes of the authors of the original message (the mailboxes in the "From:" field) or mailboxes specified in the "Reply-To:" field (if it exists) MAY appear in the "To:" field of the reply since these would normally be the primary recipients of the reply. If a reply is sent to a message that has destination fields, it is often desirable to send a copy of the reply to all of the recipients of the message, in addition to the author. When such a reply is formed, addresses in the "To:" and "Cc:" fields of the original message MAY appear in the "Cc:" field of the reply, since these are normally secondary recipients of the reply. If a "Bcc:" field is present in the original message, addresses in that field MAY appear in the "Bcc:" field of the reply, but SHOULD NOT appear in the "To:" or "Cc:" fields.

Note: Some mail applications have automatic reply commands that

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include the destination addresses of the original message in the destination addresses of the reply. How those reply commands behave is implementation dependent and is beyond the scope of this document. In particular, whether or not to include the original destination addresses when the original message had a "Reply-To:" field is not addressed
here.

3.6.4. Identification fields

Though optional, every message SHOULD have a "Message-ID:" field. Furthermore, reply messages SHOULD have "In-Reply-To:" and "References:" fields as appropriate, as described below.

The "Message-ID:" field contains a single unique message identifier. The "References:" and "In-Reply-To:" field each contain one or more unique message identifiers, optionally separated by CFWS.

The message identifier (msg-id) is similar in syntax to an angle-addr construct without the internal CFWS.

```
message-id      =       "Message-ID:" msg-id CRLF

in-reply-to     =       "In-Reply-To:" 1*msg-id CRLF

references      =       "References:" 1*msg-id CRLF

msg-id          =       [CFWS] "<" id-left "@" id-right ">" [CFWS]

id-left         =       dot-atom-text / no-fold-quote / obs-id-left

id-right        =       dot-atom-text / no-fold-literal / obs-id-right

no-fold-quote   =       DQUOTE *(qtext / quoted-pair) DQUOTE
```



```
no-fold-literal =       "[" *(dtext / quoted-pair) "]"
```

The "Message-ID:" field provides a unique message identifier that refers to a particular version of a particular message. The uniqueness of the message identifier is guaranteed by the host that

generates it (see below). This message identifier is intended to be machine readable and not necessarily meaningful to humans. A message identifier pertains to exactly one instantiation of a particular message; subsequent revisions to the message each receive new message identifiers.

Note: There are many instances when messages are "changed", but those changes do not constitute a new instantiation of that message, and therefore the message would not get a new message identifier. For example, when messages are introduced into the transport system, they are often prepended
with additional header fields such as trace
fields (described in section 3.6.7) and resent fields (described in section 3.6.6). The addition of such header fields does not change the identity of the message and therefore the original "Message-ID:" field is retained. In all cases, it is the meaning that the sender of the message wishes to convey (i.e., whether this is the same message or a different message) that determines whether or not the "Message-ID:" field changes, not any particular syntactic difference that appears (or does not appear) in the message.

The "In-Reply-To:" and "References:" fields are used when creating a reply to a message. They hold the message identifier of the original message and the message identifiers of other messages (for example, in the case of a reply to a message which was itself a reply). The "In-Reply-To:" field may be used to identify the message (or messages) to which the new message is a reply, while
the
"References:" field may be used to identify a "thread" of conversation.

When creating a reply to a message, the "In-Reply-To:" and "References:" fields of the resultant message are constructed as follows:

The "In-Reply-To:" field will contain the contents of the "Message-ID:" field of the message to which this one is a reply (the "parent message"). If there is more than one parent message, then the "In-Reply-To:" field will contain the contents of all of the parents' "Message-ID:" fields. If there is no "Message-ID:" field in any of the parent messages, then the new message will have no "In-Reply-To:" field.

The "References:" field will contain the contents of the parent's "References:" field (if any) followed by the contents of the parent's "Message-ID:" field (if any). If the parent message does not contain a "References:" field but does have an "In-Reply-To:" field containing a single message identifier, then the "References:" field will contain the contents of the parent's "In-Reply-To:" field followed by the contents of the parent's "Message-ID:" field (if any). If the parent has none of the "References:", "In-Reply-To:", or "Message-ID:" fields, then the new message will have no "References:" field.

Note: Some implementations parse the "References:" field to display the "thread of the discussion". These implementations assume that each new message is a reply to a single parent and hence that they can walk backwards through the "References:" field to find the parent of each message listed there. Therefore, trying to form a "References:" field for a reply that has multiple parents is discouraged and how to do so is not defined in this document.

The message identifier (msg-id) itself MUST be a globally unique identifier for a message. The generator of the message identifier MUST guarantee that the msg-id is unique. There are several algorithms that can be used to accomplish this. Since the msg-id has a similar syntax to angle-addr (identical except that comments and folding white space are not allowed), a good method is to put the domain name (or a domain literal IP address) of the host on which the message identifier was created on the right hand side of the "@", and put a combination of the current absolute date and time along with some other currently unique (perhaps sequential) identifier available on the system (for example, a process id number) on the left hand side. Using a date on the left hand side and a domain name or domain literal on the right hand side makes it possible to guarantee uniqueness since no two hosts use the same domain name or IP address at the same time. Though other algorithms will work, it is RECOMMENDED that the right hand side contain some domain identifier (either of the host itself or otherwise) such that the generator of the message identifier can guarantee the uniqueness of the left hand side within the scope of that domain.

Semantically, the angle bracket characters are not part of the

msg-id; the msg-id is what is contained between the two angle bracket characters.

3.6.5. Informational fields

The informational fields are all optional. The "Keywords:" field contains a comma-separated list of one or more words or quoted-strings. The "Subject:" and "Comments:" fields are unstructured fields as defined in section 2.2.1, and therefore may contain text or folding white space.

```
subject       =       "Subject:" unstructured CRLF

comments      =       "Comments:" unstructured CRLF

keywords
      =       "Keywords:" phrase *("," phrase) CRLF
```

These three fields are intended to have only human-readable content with information about the message. The "Subject:" field is the most common and contains a short string identifying the topic of the message. When used in a reply, the field body MAY start with the string "Re: " (from the Latin "res", in the matter of) followed by the contents of the "Subject:" field body of the original message. If this is done, only one instance of the literal string "Re: " ought to be used since use of other strings or more than one instance can lead to undesirable consequences. The "Comments:" field contains any additional comments on the text of the body of the message. The "Keywords:" field contains a comma-separated list of important words and phrases that might be useful for the recipient.

3.6.6. Resent fields

Resent fields SHOULD be added to any message that is reintroduced by a user into the

transport system. A separate set of resent fields SHOULD be added each time this is done. All of the resent fields corresponding to a particular resending of the message SHOULD be together. Each new set of resent fields is prepended to the message; that is, the most recent set of resent fields appear earlier in the message. No other fields in the message are changed when resent fields are added.

Each of the resent fields corresponds to a particular field elsewhere in the syntax. For instance, the "Resent-Date:" field corresponds to the "Date:" field and the "Resent-To:" field corresponds to the "To:" field. In each case, the syntax for the field body is identical to the syntax given previously for the corresponding field.

When resent fields are used, the "Resent-From:" and "Resent-Date:" fields MUST be sent. The "Resent-Message-ID:" field SHOULD be sent. "Resent-Sender:" SHOULD NOT be used if "Resent-Sender:" would be identical to "Resent-From:".


```
resent-date     =     "Resent-Date:" date-time CRLF

resent-from     =     "Resent-From:" mailbox-list CRLF

resent-sender   =     "Resent-Sender:" mailbox CRLF

resent-to       =     "Resent-To:" address-list CRLF

resent-cc       =     "Resent-Cc:" address-list CRLF

resent-bcc      =     "Resent-Bcc:" (address-list / [CFWS]) CRLF

resent-msg-id   =     "Resent-Message-ID:" msg-id CRLF
```

Resent fields are used to identify a message as having been reintroduced into the transport system by a user. The purpose of using resent fields is to have the message appear to the final recipient as if it were sent directly by the original sender, with all of the original fields remaining the same. Each set of resent fields correspond to a particular resending event. That is, if a message is resent

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multiple times, each set of resent fields gives identifying information for each individual time. Resent fields are strictly informational. They MUST NOT be used in the normal processing of replies or other such automatic actions on messages.

Note: Reintroducing a message into the transport system and using resent fields is a different operation from "forwarding". "Forwarding" has two meanings: One sense of forwarding is that a mail reading program can be told by a user to forward a copy of a message to another person, making the forwarded message the body of the new message. A forwarded message in this sense does not appear to have come from the original sender, but is an entirely new message from the forwarder of the message. On the other hand, forwarding is also used to mean when a mail transport program gets a message and forwards it on to a different destination for final delivery. Resent header fields are not intended for use with either type of forwarding.

The resent originator fields indicate the mailbox of the person(s) or system(s) that resent the message. As with the regular originator fields, there are two forms: a simple "Resent-From:" form which contains the mailbox of the individual doing the resending, and the more complex form, when one individual (identified in the "Resent-Sender:" field) resends a message on behalf of one or more others (identified in the "Resent-From:" field).

Note: When replying to a resent message, replies behave just as they would with any other message, using the original "From:",

"Reply-To:", "Message-ID:", and other fields. The resent fields are only informational and MUST NOT be used in the normal processing of replies.

The "Resent-Date:" indicates the date and time at which the resent message is dispatched by the resender of the message. Like the "Date:" field, it is not the date and time that the message was actually transported.

The "Resent-To:", "Resent-Cc:", and "Resent-Bcc:" fields function

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identically to the "To:", "Cc:", and "Bcc:" fields respectively, except that they indicate the recipients of the resent message, not the recipients of the original message.

The "Resent-Message-ID:" field provides a unique identifier for the resent message.

3.6.7. Trace fields

The trace fields are a group of header fields consisting of an optional "Return-Path:" field, and one or more "Received:" fields. The "Return-Path:" header field contains a pair of angle brackets that enclose an optional addr-spec. The "Received:" field contains a (possibly empty) list of name/value pairs followed by a semicolon and a date-time specification. The first item of the name/value pair is defined by item-name, and the second item is either an addr-spec, an atom, a domain, or a msg-id. Further restrictions may be applied to the syntax of the trace fields by standards that provide for their use, such as [RFC2821].

```
trace          =      [return]
                   1*received

return         =      "Return-Path:" path CRLF

path           =      ([CFWS] "<" ([CFWS] / addr-spec) ">" [CFWS]) /
                   obs-path

received       =      "Received:" name-val-list ";" date-time CRLF

name-val-list  =      [CFWS] [name-val-pair *(CFWS name-val-pair)]

name-val-pair  =      item-name CFWS item-value

item-name      =      ALPHA *(["-"] (ALPHA / DIGIT))

item-value     =      1*angle-addr / addr-spec /
                   atom / domain / msg-id
```


A full discussion of the Internet mail use of trace fields is

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contained
in [RFC2821]. For the purposes of this standard, the trace
fields are strictly informational, and any formal interpretation of
them is outside of the scope of this document.

3.6.8. Optional fields

Fields may appear in messages that are otherwise unspecified in this
standard. They MUST conform to the syntax of an optional-field.
This is a field name, made up of the printable US-ASCII characters
except SP and colon, followed by a colon, followed by any text which
conforms to unstructured.

The field names of any optional-field MUST NOT be identical to any
field name specified elsewhere in this standard.

```
optional-field  =      field-name ":" unstructured CRLF

field-name      =      1*ftext

ftext           =      %d33-57 /              ; Any character except
                       %d59-126               ;  controls, SP, and
                                              ;  ":".
```

For the purposes of this standard, any optional field is
uninterpreted.

4.
Obsolete Syntax

Earlier versions of this standard allowed for different (usually more
liberal) syntax than is allowed in this version. Also, there have
been syntactic elements used in messages on the Internet whose
interpretation have never been documented. Though some of these
syntactic forms MUST NOT be generated according to the grammar in
section 3, they MUST be accepted and parsed by a conformant receiver.
This section documents many of these syntactic elements. Taking the
grammar in section 3 and adding the definitions presented in this
section will result in the grammar to use for interpretation of
messages.

Note: This section identifies syntactic forms that any implementation
MUST reasonably interpret. However, there are certainly Internet
messages which do not conform to even the additional syntax given in
this section. The fact that a particular form does not appear in any
section of this document is not justification
for computer programs
to crash or for malformed data to be irretrievably lost by any

implementation. To repeat an example, though this document requires lines in messages to be no longer than 998 characters, silently

discarding the 999th and subsequent characters in a line without warning would still be bad behavior for an implementation. It is up to the implementation to deal with messages robustly.

One important difference between the obsolete (interpreting) and the current (generating) syntax is that in structured header field bodies (i.e., between the colon and the CRLF of any structured header field), white space characters, including folding white space, and comments can be freely inserted between any syntactic tokens. This allows many complex forms that have proven difficult for some implementations to parse.

Another key difference between the obsolete and the current syntax is that the rule in section 3.2.3 regarding lines composed entirely of white space in comments and folding white space does not apply. See the discussion of folding white space in section 4.2 below.

Finally, certain characters that were formerly allowed in messages appear in this section. The NUL character (ASCII value 0) was once allowed, but is no longer for compatibility reasons. CR and LF were allowed to appear in messages other than as CRLF; this use is also shown here.

Other differences in syntax and semantics are noted in the following sections.

4.1. Miscellaneous obsolete tokens

These syntactic elements are used elsewhere in the obsolete syntax or in the main syntax. The obs-char and obs-qp elements each add ASCII value 0. Bare CR and bare LF are added to obs-text and obs-utext. The period character is added to obs-phrase. The obs-phrase-list provides for "empty" elements in a comma-separated list of phrases.

Note: The "period" (or "full stop") character (".") in obs-phrase is not a form that was allowed in earlier versions of this or any other standard. Period (nor any other character from specials) was not allowed in phrase because it introduced a parsing difficulty

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distinguishing between phrases and portions of an addr-spec (see section 4.4). It appears here because the period character is currently used in many messages in the display-name portion of addresses, especially for initials in names, and therefore must be interpreted properly. In the future, period may appear in the regular syntax of phrase.

```
obs-qp        =      "\" (%d0-127)

obs-text      =      *LF *CR *(obs-char *LF *CR)
```



```
obs-char      =      %d0-9
 / %d11 /          ; %d0-127 except CR and
                   %d12 / %d14-127        ;  LF

obs-utext     =      obs-text

obs-phrase    =      word *(word / "." / CFWS)

obs-phrase-list =      phrase / 1*([phrase] [CFWS] "," [CFWS]) [phrase]
```

Bare CR and bare LF appear in messages with two different meanings. In many cases, bare CR or bare LF are used improperly instead of CRLF to indicate line separators. In other cases, bare CR and bare LF are used simply as ASCII control characters with their traditional ASCII meanings.

4.2. Obsolete folding white space

In the obsolete syntax, any amount of folding white space MAY be inserted where the obs-FWS rule is allowed. This creates the possibility of having two consecutive "folds" in a line, and therefore the possibility that a line which makes up a folded header field could be composed entirely of white space.

```
obs-FWS       =      1*WSP *(CRLF 1*WSP)
```

4.3. Obsolete Date and Time

The

syntax for the obsolete date format allows a 2 digit year in the date field and allows for a list of alphabetic time zone specifications that were used in earlier versions of this standard. It also permits comments and folding white space between many of the tokens.

```
obs-day-of-week =       [CFWS] day-name [CFWS]

obs-year        =       [CFWS] 2*DIGIT [CFWS]

obs-month       =       CFWS month-name CFWS

obs-day         =       [CFWS] 1*2DIGIT [CFWS]

obs-hour        =       [CFWS] 2DIGIT [CFWS]

obs-minute      =       [CFWS] 2DIGIT [CFWS]

obs-second      =       [CFWS] 2DIGIT [CFWS]

obs-zone        =       "UT" / "GMT" /          ; Universal Time
```



```
                                ; North American UT
                                ; offsets
                "EST" / "EDT" /
 ; Eastern:  - 5/ - 4
                "CST" / "CDT" /         ; Central:  - 6/ - 5
                "MST" / "MDT" /         ; Mountain: - 7/ - 6
                "PST" / "PDT" /         ; Pacific:  - 8/ - 7

                %d65-73 /               ; Military zones - "A"
                %d75-90 /               ; through "I" and "K"
                %d97-105 /              ; through "Z", both
                %d107-122               ; upper and lower case
```

Where a two or three digit year occurs in a date, the year is to be interpreted as follows: If a two digit year is encountered whose value is between 00 and 49, the year is interpreted by adding 2000, ending up with a value between 2000 and 2049. If a two digit year is encountered with a value between 50 and 99, or any three digit year is encountered, the year is interpreted by adding 1900.

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In the obsolete time zone, "UT" and "GMT" are indications of "Universal Time" and "Greenwich Mean Time" respectively and are both semantically identical to "+0000".

The remaining three character zones are the US time zones. The first letter, "E", "C", "M", or "P" stands for "Eastern", "Central", "Mountain" and "Pacific". The second letter is either "S" for "Standard" time, or "D" for "Daylight" (or summer) time. Their interpretations are as follows:

EDT is semantically equivalent to -0400
EST is semantically equivalent to -0500
CDT is semantically equivalent to -0500
CST is semantically equivalent to -0600
MDT is semantically equivalent to -0600
MST is semantically equivalent to -0700
PDT is semantically equivalent to -0700
PST is semantically equivalent to -0800

The 1 character military time zones were defined in a non-standard way in [RFC822] and are therefore unpredictable in their meaning. The original definitions of the military zones "A" through "I" are equivalent to "+0100" through "+0900" respectively; "K", "L", and "M" are equivalent to "+1000", "+1100", and "+1200" respectively; "N" through "Y" are equivalent to "-0100" through "-1200" respectively; and "Z" is equivalent to "+0000". However, because of the error in [RFC822], they SHOULD all be considered equivalent to "-0000" unless there is out-of-band information confirming their meaning.

Other multi-character (usually between 3 and 5) alphabetic time zones have been used in Internet messages. Any such time zone whose meaning is not known SHOULD be considered equivalent to "-0000" unless there is out-of-band information confirming their meaning.

4.4. Obsolete Addressing

There are three primary differences in addressing. First, mailbox

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addresses were allowed to have a route portion before the addr-spec when enclosed in "<" and ">". The route is simply a comma-separated list of domain names, each preceded by "@", and the list terminated by a colon. Second, CFWS were allowed between the period-separated elements of local-part and domain (i.e., dot-atom was not used). In addition, local-part is allowed to contain quoted-string in addition to just atom. Finally, mailbox-list and address-list were allowed to have "null" members. That is, there could be two or more commas in such a list with nothing in between them.

```
obs-angle-addr  =      [CFWS] "<" [obs-route] addr-spec ">" [CFWS]

obs-route       =      [CFWS] obs-domain-list ":" [CFWS]

obs-domain-list =      "@" domain *(*(CFWS / "," ) [CFWS] "@" domain)

obs-local-part  =      word *("." word)

obs-domain      =      atom *("." atom)

obs-mbox-list   =      1*([mailbox] [CFWS] "," [CFWS]) [mailbox]

obs-addr-list   =      1*([address] [CFWS] "," [CFWS]) [address]
```

When interpreting addresses, the route portion SHOULD be ignored.

4.5. Obsolete header fields

Syntactically, the primary difference in the obsolete field syntax is that it allows multiple occurrences of any of the fields and they may occur in any order. Also, any amount of white space is allowed before the ":" at the end of the field name.

```
obs-fields      =      *(obs-return /
                       obs-received /
                       obs-orig-date /
                       obs-from /
                       obs-sender /
                       obs-reply-to /
                       obs-to /
```


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```
                obs-cc /
                obs-bcc /
                obs-message-id /
                obs-in-reply-to /
                obs-references /
                obs-subject /
                obs-comments /

            obs-keywords /
                obs-resent-date /
                obs-resent-from /
                obs-resent-send /
                obs-resent-rply /
                obs-resent-to /
                obs-resent-cc /
                obs-resent-bcc /
                obs-resent-mid /
                obs-optional)
```

Except for destination address fields (described in section 4.5.3), the interpretation of multiple occurrences of fields is unspecified. Also, the interpretation of trace fields and resent fields which do not occur in blocks prepended to the message is unspecified as well. Unless otherwise noted in the following sections, interpretation of other fields is identical to the interpretation of their non-obsolete counterparts in section 3.

4.5.1. Obsolete origination date field

```
obs-orig-date   =       "Date" *WSP ":" date-time CRLF
```

4.5.2. Obsolete originator fields

```
obs-from
    =       "From" *WSP ":" mailbox-list CRLF

obs-sender      =       "Sender" *WSP ":" mailbox CRLF

obs-reply-to    =       "Reply-To" *WSP ":" mailbox-list CRLF
```

4.5.3. Obsolete destination address fields

```
obs-to          =       "To" *WSP ":" address-list CRLF

obs-cc          =       "Cc" *WSP ":" address-list CRLF
```

obs-bcc = "Bcc" *WSP ":" (address-list / [CFWS]) CRLF

When multiple occurrences of destination address fields occur in a message, they SHOULD be treated as if the address-list in the first occurrence of the field is combined with the address lists of the subsequent occurrences by adding a comma and concatenating.

4.5.4. Obsolete identification fields

The obsolete "In-Reply-To:" and "References:" fields differ from the current syntax in that they allow phrase (words or quoted strings) to
appear. The obsolete forms of the left and right sides of msg-id allow interspersed CFWS, making them syntactically identical to local-part and domain respectively.

obs-message-id = "Message-ID" *WSP ":" msg-id CRLF

obs-in-reply-to = "In-Reply-To" *WSP ":" *(phrase / msg-id) CRLF

obs-references = "References" *WSP ":" *(phrase / msg-id) CRLF

obs-id-left = local-part

obs-id-right = domain

For purposes of interpretation, the phrases in the "In-Reply-To:" and "References:" fields are ignored.

Semantically, none of the optional CFWS surrounding the local-part and the domain are part of the obs-id-left and obs-id-right respectively.

4.5.5. Obsolete informational fields

obs-subject = "Subject" *WSP ":" unstructured CRLF

obs-comments = "Comments" *WSP ":" unstructured CRLF

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obs-keywords = "Keywords" *WSP ":" obs-phrase-list CRLF

4.5.6. Obsolete resent fields

The obsolete syntax adds
a "Resent-Reply-To:" field, which consists
of the field name, the optional comments and folding white space, the
colon, and a comma separated list of addresses.

obs-resent-from = "Resent-From" *WSP ":" mailbox-list CRLF

obs-resent-send = "Resent-Sender" *WSP ":" mailbox CRLF

obs-resent-date = "Resent-Date" *WSP ":" date-time CRLF

obs-resent-to = "Resent-To" *WSP ":" address-list CRLF

obs-resent-cc = "Resent-Cc" *WSP ":" address-list CRLF

obs-resent-bcc = "Resent-Bcc" *WSP ":"
(address-list / [CFWS]) CRLF

obs-resent-mid = "Resent-Message-ID" *WSP ":" msg-id CRLF

obs-resent-rply = "Resent-Reply-To" *WSP ":" address-list CRLF

As with other resent fields, the "Resent-Reply-To:" field is to be
treated as trace information only.

4.5.7. Obsolete
trace fields

The obs-return and obs-received are again given here as template
definitions, just as return and received are in section 3. Their
full syntax is given in [RFC2821].

obs-return = "Return-Path" *WSP ":" path CRLF

obs-received = "Received" *WSP ":" name-val-list CRLF

obs-path = obs-angle-addr

4.5.8. Obsolete optional fields

obs-optional = field-name *WSP ":" unstructured CRLF

5. Security Considerations

Care needs to be taken when displaying messages on a terminal or terminal emulator. Powerful terminals may act on escape sequences and other combinations of ASCII control characters with a variety of consequences. They can remap the keyboard or permit other modifications to the terminal which could lead to denial of service or even damaged data. They can trigger (sometimes programmable) answerback messages which can allow a message to cause commands to be issued on the recipient's behalf.
They can also effect the operation
of terminal attached devices such as printers. Message viewers may wish to strip potentially dangerous terminal escape sequences from the message prior to display. However, other escape sequences appear in messages for useful purposes (cf. [RFC2045, RFC2046, RFC2047, RFC2048, RFC2049, ISO2022]) and therefore should not be stripped indiscriminately.

Transmission of non-text objects in messages raises additional security issues. These issues are discussed in [RFC2045, RFC2046, RFC2047, RFC2048, RFC2049].

Many implementations use the "Bcc:" (blind carbon copy) field described in section 3.6.3 to facilitate sending messages to recipients without revealing the addresses of one or more of the addressees to the other recipients. Mishandling this use of "Bcc:" has implications for confidential information that might be revealed, which could eventually lead to security problems through knowledge of even the existence of a particular mail address. For example, if using the first method described in section 3.6.3, where the "Bcc:" line is removed from the message, blind recipients have no explicit indication that they have been sent a blind copy, except insofar as their address does not appear in the message header. Because of this, one of the blind addressees could potentially send a reply to

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all of the shown recipients and accidentally reveal that the message went to the blind recipient. When the second method from section 3.6.3 is used, the blind recipient's address appears in the "Bcc:" field of a separate copy of the message. If the "Bcc:" field sent contains all of the blind addressees, all of the "Bcc:" recipients will be seen by each "Bcc:" recipient. Even if a separate message is sent to each "Bcc:" recipient with only the individual's address, implementations still need to be careful to process replies to the message as per section 3.6.3 so as not to accidentally reveal the blind recipient to other recipients.

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Appendix A. Example messages

This section presents a selection of messages. These are intended to assist in the implementation of this standard, but should not be taken as normative; that is to say, although the examples in this section were carefully reviewed, if there happens to be a conflict between these examples and the syntax described in sections 3 and 4 of this document, the syntax in those sections is to be taken as correct.

Messages are delimited in this section between lines of "----". The "----" lines are not part of the message itself.

A.1. Addressing examples

The following are examples of messages that might be sent between two individuals.

A.1.1. A message from one person to another with simple addressing

This could be called a canonical message. It has a single author, John Doe, a single recipient, Mary Smith, a subject, the date, a message identifier, and a textual message in the body.

```
----
From: John
 Doe <jdoe@machine.example>
To: Mary Smith <mary@example.net>
Subject: Saying Hello
Date: Fri, 21 Nov 1997 09:55:06 -0600
Message-ID: <1234@local.machine.example>

This is a message just to say hello.
So, "Hello".
----
```


If John's secretary Michael actually sent the message, though John was the author and replies to this message should go back to him, the sender field would be used:

```
----
From: John Doe <jdoe@machine.example>
Sender: Michael Jones <mjones@machine.example>
To: Mary Smith <mary@example.net>
Subject: Saying Hello
Date: Fri, 21 Nov 1997 09:55:06 -0600
Message-ID: <1234@local.machine.example>

This is a message just to say hello.
So, "Hello".
----
```

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A.1.2. Different types of mailboxes

This message includes multiple addresses in the destination fields
and also uses several different forms of addresses.

```
----
From:
 "Joe Q. Public" <john.q.public@example.com>
To: Mary Smith <mary@x.test>, jdoe@example.org, Who? <one@y.test>
Cc: <boss@nil.test>, "Giant; \"Big\" Box" <sysservices@example.net>
Date: Tue, 1 Jul 2003 10:52:37 +0200
Message-ID: <5678.21-Nov-1997@example.com>

Hi everyone.
----
```

Note that the display names for Joe Q. Public and Giant; "Big" Box
needed to be enclosed in double-quotes because the former contains
the period and the latter contains both semicolon and double-quote
characters (the double-quote characters appearing as quoted-pair
construct). Conversely, the display name for Who? could appear
without them because the question mark is legal in an atom. Notice
also that jdoe@example.org and boss@nil.test have no display names
associated with them at all, and jdoe@example.org uses the simpler
address form without the angle brackets.

A.1.3. Group addresses

```
----
From: Pete <pete@silly.example>
To: A Group:Chris Jones <c@a.test>,joe@where.test,John <jdoe@one.test>;
```

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Cc: Undisclosed recipients:;
Date: Thu, 13 Feb 1969 23:32:54 -0330
Message-ID: <testabcd.1234@silly.example>

Testing.

In this message, the "To:" field has a single group recipient named A Group which contains 3 addresses, and a "Cc:" field with an empty group recipient named Undisclosed recipients.

A.2. Reply messages

The following is a series of three messages that make up a conversation thread between John and Mary. John firsts sends a message to Mary, Mary then replies to John's message, and then John replies to Mary's reply message.

Note especially the "Message-ID:", "References:", and "In-Reply-To:" fields in each message.

From: John Doe <jdoe@machine.example>
To: Mary Smith <mary@example.net>
Subject: Saying Hello
Date: Fri, 21 Nov 1997 09:55:06 -0600
Message-ID:
<1234@local.machine.example>

This is a message just to say hello.
So, "Hello".

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When sending replies, the Subject field is often retained, though prepended with "Re: " as described in section 3.6.5.

```
----
From: Mary Smith <mary@example.net>
To: John Doe <jdoe@machine.example>
Reply-To: "Mary Smith: Personal Account" <smith@home.example>
Subject: Re: Saying Hello
Date: Fri, 21 Nov 1997 10:01:10 -0600
Message-ID: <3456@example.net>
In-Reply-To: <1234@local.machine.example>
References: <1234@local.machine.example>

This is a reply to your hello.
----
```

Note the "Reply-To:" field in the above message. When John replies to Mary's message above, the reply should go to the address in the "Reply-To:" field instead of the address in the "From:" field.

```
----
To: "Mary Smith: Personal Account" <smith@home.example>
From:
 John Doe <jdoe@machine.example>
Subject: Re: Saying Hello
Date: Fri, 21 Nov 1997 11:00:00 -0600
Message-ID: <abcd.1234@local.machine.tld>
In-Reply-To: <3456@example.net>
References: <1234@local.machine.example> <3456@example.net>

This is a reply to your reply.
----
```

A.3. Resent messages

Start with the message that has been used as an example several times:

```
----
From: John Doe <jdoe@machine.example>
To: Mary Smith <mary@example.net>
Subject: Saying Hello
Date: Fri, 21 Nov 1997 09:55:06 -0600
Message-ID: <1234@local.machine.example>
```

This is a message just to say hello.
So, "Hello".

Say that Mary, upon receiving this message, wishes to send a copy of the message to Jane such that (a) the message would appear to have come straight from John; (b) if Jane replies to the message, the reply should
go back to John; and (c) all of the original
information, like the date the message was originally sent to Mary, the message identifier, and the original addressee, is preserved. In this case, resent fields are prepended to the message:

Resent-From: Mary Smith <mary@example.net>
Resent-To: Jane Brown <j-brown@other.example>
Resent-Date: Mon, 24 Nov 1997 14:22:01 -0800
Resent-Message-ID: <78910@example.net>
From: John Doe <jdoe@machine.example>
To: Mary Smith <mary@example.net>
Subject: Saying Hello
Date: Fri, 21 Nov 1997 09:55:06 -0600
Message-ID: <1234@local.machine.example>

This is a message just to say hello.
So, "Hello".

If Jane, in turn, wished to resend this message to another person, she would prepend her own set of resent header fields to the above and send that.

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A.4. Messages with trace fields

As messages are sent through the transport system as described in [RFC2821], trace fields are prepended to the message. The following is an example of what those trace fields might look like. Note that there is some folding white space in the first one since these lines can be long.

```
----
Received: from x.y.test
  by example.net
  via TCP
  with ESMTP
  id ABC12345
  for <mary@example.net>;  21 Nov 1997 10:05:43 -0600
Received: from machine.example by x.y.test; 21 Nov 1997 10:01:22 -0600
From: John Doe <jdoe@machine.example>
To: Mary Smith <mary@example.net>
Subject: Saying Hello
Date: Fri, 21 Nov 1997 09:55:06 -0600
Message-ID: <1234@local.machine.example>

This is a message just to say hello.
So, "Hello".
----
```

A.5. White space, comments, and other oddities

```
  White space,
 including folding white space, and comments can be
  inserted between many of the tokens of fields.  Taking the example
  from A.1.3, white space and comments can be inserted into all of the
  fields.

----
From: Pete(A wonderful \) chap) <pete(his account)@silly.test(his host)>
To:A Group(Some people)
    :Chris Jones <c@(Chris's host.)public.example>,
        joe@example.org,
 John <jdoe@one.test> (my dear friend); (the end of the group)
Cc:(Empty list)(start)Undisclosed recipients  :(nobody(that I know))  ;
Date: Thu,
     13
```

Feb
1969
23:32
-0330 (Newfoundland Time)
Message-ID: <testabcd.1234@silly.test>

Testing.

The above example is aesthetically displeasing, but perfectly legal. Note particularly (1) the comments in the "From:" field (including one that has a ")" character appearing as part of a quoted-pair); (2) the white space absent after the ":" in the "To:" field as well as the comment and
folding white space after the group name, the special character (".") in the comment in Chris Jones's address, and the folding white space before and after "joe@example.org,"; (3) the multiple and nested comments in the "Cc:" field as well as the comment immediately following the ":" after "Cc"; (4) the folding white space (but no comments except at the end) and the missing seconds in the time of the date field; and (5) the white space before (but not within) the identifier in the "Message-ID:" field.

A.6. Obsoleted forms

The following are examples of obsolete (that is, the "MUST NOT generate") syntactic elements described in section 4 of this document.

A.6.1. Obsolete addressing

Note in the below example the lack of quotes around Joe Q. Public, the route that appears in the address for Mary
Smith, the two commas
that appear in the "To:" field, and the spaces that appear around the "." in the jdoe address.

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```
----
From: Joe Q. Public <john.q.public@example.com>
To: Mary Smith <@machine.tld:mary@example.net>, , jdoe@test   . example
Date: Tue, 1 Jul 2003 10:52:37 +0200
Message-ID: <5678.21-Nov-1997@example.com>

Hi everyone.
----
```

A.6.2. Obsolete dates

The following message uses an obsolete date format, including a non-numeric time zone and a two digit year. Note that although the day-of-week is missing, that is not specific to the obsolete syntax; it is optional in the current syntax as well.

```
----
From: John Doe <jdoe@machine.example>
To: Mary Smith <mary@example.net>
Subject: Saying Hello
Date: 21 Nov 97 09:55:06 GMT
Message-ID: <1234@local.machine.example>

This is a message just to say hello.
So, "Hello".
----
```

A.6.3. Obsolete white space and comments

White space and comments can appear between many more elements than in the current syntax. Also,
folding lines that are made up entirely
of white space are legal.

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```
----
From  : John Doe <jdoe@machine(comment).  example>
To    : Mary Smith
__
        <mary@example.net>
Subject     : Saying Hello
Date  : Fri, 21 Nov 1997 09(comment):   55  :  06 -0600
Message-ID  : <1234   @   local(blah)  .machine .example>

This is a message just to say hello.
So, "Hello".
----
```

Note especially the second line of the "To:" field. It starts with two space characters. (Note that "__" represent blank spaces.) Therefore, it is considered part of the folding as described in section 4.2. Also, the comments and white space throughout addresses, dates, and message identifiers are all part of the obsolete syntax.

Appendix B. Differences from earlier standards

This appendix contains a list of changes that have been made in the Internet Message Format from earlier standards, specifically [RFC822] and [STD3]. Items marked with an asterisk (*) below are items which appear in section 4 of this document and therefore can no longer be generated.

1. Period allowed in obsolete form of phrase.
2. ABNF moved out of document to [RFC2234].
3. Four or more digits allowed for year.
4. Header field ordering (and lack thereof) made explicit.
5. Encrypted header field removed.
6. Received syntax loosened to allow any token/value pair.
7. Specifically allow and give meaning to "-0000" time zone.
8. Folding white space is not allowed between every token.
9. Requirement for destinations removed.
10. Forwarding and resending redefined.
11. Extension header fields no longer specifically called out.
12. ASCII 0 (null) removed.*
13. Folding continuation lines cannot contain only white space.*
14. Free insertion of comments not allowed in date.*
15. Non-numeric

time zones not allowed.*

16. Two digit years not allowed.*
17. Three digit years interpreted, but not allowed for generation.
18. Routes in addresses not allowed.*
19. CFWS within local-parts and domains not allowed.*
20. Empty members of address lists not allowed.*

21. Folding white space between field name and colon not allowed.*
22. Comments between field name and colon not allowed.
23. Tightened syntax of in-reply-to and references.*
24. CFWS within msg-id not allowed.*
25. Tightened semantics of resent fields as informational only.
26. Resent-Reply-To not allowed.*
27. No multiple occurrences of fields (except resent and received).*
28. Free CR and LF not allowed.*
29. Routes in return path not allowed.*
30. Line length limits specified.
31. Bcc more clearly specified.

Appendix C.
Notices

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Acknowledgement

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Found in path(s):
* /opt/cola/permits/2308999132_1736194787.2494197/0/mikel-mail-2-3-1-0-g2cc19d5-tar-gz/mikel-mail-2cc19d5/reference/rfc2822 Internet Message Format.txt
No license file was found, but licenses were detected in source scan.

Network Working Group G. Vaudreuil
Request for Comments: 3462 Lucent Technologies
Obsoletes: 1892 January 2003
Category: Standards Track

The Multipart/Report Content Type for the Reporting of Mail System Administrative Messages

Status of this Memo

This document specifies an Internet standards track protocol for the Internet community, and requests discussion and suggestions for

improvements. Please refer to the current edition of the "Internet Official Protocol Standards" (STD 1) for the standardization state and status of this protocol. Distribution of this memo is unlimited.

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Abstract

The Multipart/Report Multipurpose Internet Mail Extensions (MIME) content-type is a general "family" or "container" type for electronic mail reports of any kind. Although this memo defines only the use of the Multipart/Report content-type with respect to delivery status reports, mail processing programs will benefit if a single content-type is used to for all kinds of reports.

This document is part of a four document set describing the delivery status report service. This collection includes the Simple Mail Transfer Protocol (SMTP) extensions to request delivery status reports, a MIME content for the reporting of delivery reports, an enumeration of extended status codes, and a multipart container for the delivery report, the original message, and a human-friendly summary of the failure.

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Document Conventions

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in BCP 14, RFC 2119 [RFC2119].

1. The Multipart/Report Content Type

The Multipart/Report MIME content-type is a general "family" or "container" type for electronic mail reports of any kind. Although this memo defines only the use of the Multipart/Report content-type with respect to delivery status reports, mail processing programs will benefit if a single content-type is used to for all kinds of reports.

The Multipart/Report content-type is defined as follows:

MIME type name: multipart
MIME subtype name: report
Required parameters: boundary, report-type
Optional parameters: none
Encoding considerations: 7bit should always be adequate
Security considerations: see section 3 of this memo

The syntax of Multipart/Report is identical to the Multipart/Mixed content type defined in [MIME]. When used to send a report, the Multipart/Report content-type must be the top-level MIME content type for any report message. The report-type parameter identifies the type of report. The parameter is the MIME content sub-type of the second body part of the Multipart/Report.

User agents and gateways must be able to automatically determine that a message is a mail system report and should be processed as such. Placing the Multipart/Report as the outermost content provides a mechanism whereby an auto-processor may detect through parsing the RFC 822 headers that the message is a report.

The Multipart/Report content-type contains either two or three sub-parts, in the following order:

1) [Required] The first body part contains human readable message. The purpose of this message is to provide an easily understood description of the condition(s) that caused the report to be generated, for a human reader who may not have a user agent capable of interpreting the second section of the Multipart/Report.

The text in the first section may be in any MIME standards-track content-type, charset, or language. Where a description of the error is desired in several languages or several media, a Multipart/Alternative construct may be used.

This body part may also be used to send detailed information that cannot be easily formatted into a Message/Report body part.

(2) [Required] A machine parsable body part containing an account of the reported message handling event. The purpose of this body part is to provide a machine-readable description of the condition(s) that caused the report to be generated, along with details not present in the first body part that may be useful to human experts. An initial body part, Message/delivery-status is defined in [DSN].

(3) [Optional] A body part containing the returned message or a portion thereof. This information may be useful to aid human experts in diagnosing problems. (Although it may also be useful to allow the sender to identify the message which the report was issued, it is hoped that the envelope-id and original-recipient-address returned in the Message/Report body part will replace the traditional use of the returned content for this purpose.)

Return of content may be wasteful of network bandwidth and a variety of implementation strategies can be used. Generally the sender should choose the appropriate strategy and inform the recipient of the required level of returned content required. In the absence of an explicit request for level of return of content such as that provided in [DRPT], the agent that generated the delivery service report should return the full message content.

When 8-bit or binary data not encoded in a 7 bit form is to be

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returned, and the return path is not guaranteed to be 8-bit or binary capable, two options are available. The original message MAY be re-encoded into a legal 7-bit MIME message or the Text/RFC822-Headers content-type MAY be used to return only the original message headers.

2. The Text/RFC822-Headers content-type

The Text/RFC822-Headers MIME content-type provides a mechanism to label and return only the RFC 822 headers of a failed message. These headers are not the complete message and should not be returned as a Message/RFC822. The returned headers are useful for identifying the failed message and for diagnostics based on the received lines.

The Text/RFC822-Headers content-type is defined as follows:

MIME type name: Text
MIME subtype name: RFC822-Headers
Required parameters: None
Optional parameters: None
Encoding considerations: 7 bit is sufficient for normal RFC822 headers, however, if the headers are broken and require encoding to make them legal 7 bit content, they may be encoded in quoted-printable.
Security considerations: See section 3 of this memo.

The Text/RFC822-Headers body part should contain all the RFC822 header lines from the message which caused the report. The RFC822 headers include all lines prior to the blank line in the message. They include the MIME-Version and MIME Content-Headers.

3. Security Considerations

Automated use of report types without authentication presents several security issues. Forging negative reports presents the opportunity for denial-of-service attacks when the reports are used for automated maintenance of directories or mailing lists. Forging positive

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reports may cause the sender to incorrectly believe a message was delivered when it was not.

A signature covering the entire multipart/report structure could be used to prevent such forgeries; such a signature scheme is, however, beyond the scope of this document.

4. Normative References

[SMTP] Postel, J., "Simple Mail Transfer Protocol", STD 10, RFC 821, August 1982.

[DSN] Moore, K., and G. Vaudreuil, "An Extensible Message Format for Delivery Status Notifications", RFC 3464, January 2003.

[RFC822] Crocker, D., "Standard for the format of ARPA Internet Text Messages", STD 11, RFC 822, August 1982.

[MIME] Borenstein, N. and N. Freed, "Multipurpose Internet Mail Extensions (MIME) Part Two: Media Types", RFC 2046, November 1996.

[DRPT] Moore, K., "SMTP Service Extension for Delivery Status Notifications", RFC 3461, January 2003.

[RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", BCP 14, RFC 2119, March 1997.

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Appendix A - Changes from RFC 1892

Changed Authors contact information

Updated required standards boilerplate

Edited the text to make it spell-checker and grammar checker compliant

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* /opt/cola/permits/2308999132_1736194787.2494197/0/mikel-mail-2-3-1-0-g2cc19d5-tar-gz/mikel-mail-2cc19d5/reference/rfc3462 Reporting of Mail System Administrative Messages.txt
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Network Working Group E. Levinson
Request for Comments: 2111 XIson, Inc.
Category: Standards Track March 1997

Content-ID and Message-ID Uniform Resource Locators

Status of this Memo

This document specifies an Internet standards track protocol for the Internet community, and requests discussion and suggestions for improvements. Please refer to the current edition of the "Internet Official Protocol Standards" (STD 1) for the standardization state and status of this protocol. Distribution of this memo is unlimited.

Abstract

The Uniform Resource Locator (URL) schemes, "cid:" and "mid:" allow references to messages and the body parts of messages. For example, within a single multipart message, one HTML body part might include embedded references to other parts of the same message.

1. Introduction

The use of [MIME] within email to convey Web pages and their associated images requires a URL scheme to permit the HTML to refer to the images or other data included in the message. The Content-ID Uniform Resource Locator, "cid:", serves that purpose.

Similarly Net News readers use Message-IDs to link related messages together. The Message-ID URL provides a scheme, "mid:", to refer to such messages as a "resource".

The "mid" (Message-ID) and "cid" (Content-ID) URL schemes provide identifiers for messages and their body parts. The "mid" scheme uses (a part of) the message-id of an email message to refer to a specific message. The "cid" scheme refers to a specific body part of a message; its use is generally limited to references to other body parts in the same message as the referring body part. The "mid" scheme may also refer to a specific body part within a designated

message, by including the content-ID's address.

A note on terminology. The terms "body part" and "MIME entity" are used interchangeably. They refer to the headers and body of a MIME message, either the message itself or one of the body parts contained in a Multipart message.

2. The MID and CID URL Schemes

RFC1738 [URL] reserves the "mid" and "cid" schemes for Message-ID and Content-ID respectively. This memorandum defines the syntax for those URLs. Because they use the same syntactic elements they are presented together.

The URLs take the form

```
content-id    = url-addr-spec

message-id    = url-addr-spec

url-addr-spec = addr-spec  ; URL encoding of RFC 822 addr-spec

cid-url       = "cid" ":" content-id

mid-url       = "mid" ":" message-id [ "/" content-id ]
```

Note: in Internet mail messages, the addr-spec in a Content-ID [MIME] or Message-ID [822] header are enclosed in angle brackets (<>). Since addr-spec in a Message-ID or Content-ID might contain characters not allowed within a URL; any such character (including "/", which is reserved within the "mid" scheme) must be hex-encoded using the %hh escape mechanism in [URL].

A "mid" URL with only a "message-id" refers to an entire message. With the appended "content-id", it refers to a body part within a message, as does a "cid" URL. The Content-ID of a MIME body part is required to be globally unique. However, in many systems that store

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messages, body parts are not indexed independently their context (message). The "mid" URL long form was designed to supply the context needed to support interoperability with such systems.

A implementation conforming to this specification is required to support the "mid" URL long form (message-id/content-id). Conforming implementations can choose to, but are not required to, take advantage of the content-id's uniqueness and interpret a "cid" URL to refer to any body part within the message store.

In limited circumstances (e.g., within multipart/alternate), a single message may contain several body parts that have the same Content-ID. That occurs, for example, when identical data can be accessed through different methods [MIME, sect. 7.2.3]. In those cases, conforming implementations are required to use the rules of the containing MIME entity (e.g., multi-part/alternate) to select the body part to which the Content-ID refers.

A "cid" URL is converted to the corresponding Content-ID message header [MIME] by removing the "cid:" prefix, converting %hh hex-escaped characters to their ASCII equivalents and enclosing the remaining parts with an angle bracket pair, "<" and ">". For example, "mid:foo4%25foo1@bar.net" corresponds to

Message-ID: <foo4%foo1@bar.net>

A "mid" URL is converted to a Message-ID or Message-ID/Content-ID pair in a similar fashion.

Both message-id and content-id are required to be globally unique. That is, no two different messages will ever have the same Message-ID addr-spec; no different body parts will ever have the same Content-ID addr-spec. A common technique used by many message systems is to use a time and date stamp along with the local host's domain name, e.g., 950124.162336@XIson.com.

Some Examples

The following message contains an HTML body part that refers to an

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image contained in another body part. Both body parts are contained in a Multipart/Related MIME entity. The HTML IMG tag contains a cidurl which points to the image.

```
From: foo1@bar.net
To: foo2@bar.net
Subject: A simple example
Mime-Version:
1.0
Content-Type: multipart/related; boundary="boundary-example-1";
          type=Text/HTML

--boundary-example 1
Content-Type: Text/HTML; charset=US-ASCII

... text of the HTML document, which might contain a hyperlink
to the other body part, for example through a statement such as:
<IMG SRC="cid:foo4*foo1@bar.net" ALT="IETF logo">

--boundary-example-1
Content-ID: foo4*foo1@bar.net
Content-Type: IMAGE/GIF
Content-Transfer-Encoding: BASE64
```



```
R0lGODlhGAGgAPEAAP/////ZRaCgoAAAACH+PUNvcHlyaWdodCAoQykgMTk5
NSBJRVRGLiBVbmF1dGhvcml6ZWQgZHVwbGljYXRpb24gcHJvaGliaXRlZC4A
etc...

--boundary-example-1--
```

The following message points to another message (hopefully still in the recipient's message store).

```
From: bar@none.com
To: phooey@all.com
```

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Subject: Here's how to do it
Content-type: text/html; charset=usascii

... The items in my
<A HREF= "mid:960830.1639@XIson.com/partA.960830.1639@XIson.com">
previous message</A>, shows how the approach you propose can be
used to accomplish ...

3. Security Considerations

The URLs defined here provide an addressing or referencing mechanism. The values of these URLs disclose no more about the originators environment than the corresponding Message-ID and Content-ID values. Where concern exists about such disclosures the originator of a message using mid and cid URLs must take precautions to insure that confidential information is not disclosed. Those precautions should already be in place to handle existing mail use of the Message-ID and Content-ID.

4. References

[822] Crocker, D., "Standard for the Format of ARPA Internet Text Messages," August 1982, University of Delaware, STD 11, RFC 822.

[MIME] N. Borenstein, N. Freed, "MIME (Multipurpose Internet Mail Extensions) Part One: Mechanisms for Specifying and Describing the Format of Internet Message Bodies," September 1993, RFC 1521.

[URL] Berners-Lee, T., Masinter, L., and McCahill, M., "Uniform Resource Locators (URL)," December 1994.

[MULREL] E. Levinson, "The MIME Multipart/Related Content-type," December 1995, RFC 1874.

5. Acknowledgments

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The original concept of "mid" and "cid" URLs were part of the Tim Berners-Lee's original vision of the World Wide Web. The ideas and design have benefited greatly by discussions with Harald Alvestrand, Dan Connolly, Roy Fielding, Larry Masinter, Jacob Palme, and others in the MHTML working group.

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Found in path(s):
* /opt/cola/permits/2308999132_1736194787.2494197/0/mikel-mail-2-3-1-0-g2cc19d5-tar-gz/mikel-mail-2cc19d5/reference/rfc2111 Content-ID and Message-ID URLs.txt
No license file was found, but licenses were detected in source scan.

Network Working Group N. Freed
Request for Comments: 2231 Innosoft
Updates: 2045, 2047, 2183 K. Moore
Obsoletes: 2184 University of Tennessee
Category: Standards Track November 1997

MIME Parameter Value and Encoded Word Extensions: Character Sets, Languages, and Continuations

Status of this Memo

This document specifies an Internet standards track protocol for the Internet community, and requests discussion and suggestions for improvements. Please refer to the current edition of the "Internet Official Protocol Standards" (STD 1) for the standardization state and status of this protocol. Distribution of this memo is unlimited.

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1. Abstract

This memo defines extensions to the RFC 2045 media type and RFC 2183 disposition parameter value mechanisms to provide

(1) a means to specify parameter values in character sets other than US-ASCII,

(2) to specify the language to be used should the value be displayed, and

(3) a continuation mechanism for long parameter values to avoid problems with header line wrapping.

This memo also defines an extension to the encoded words defined in

RFC 2047 to allow the specification of the language to be used for display as well as the character set.

2. Introduction

The Multipurpose Internet Mail Extensions, or MIME [RFC-2045, RFC-2046, RFC-2047, RFC-2048, RFC-2049], define a message format that allows for:

(1) textual message bodies in character sets other than US-ASCII,

(2) non-textual message bodies,

(3) multi-part message bodies, and

(4) textual header information in character sets other than US-ASCII.

MIME is now widely deployed and is used by a variety of Internet protocols, including, of course, Internet email. However, MIME's success has resulted in the need for additional mechanisms that were not provided in the original protocol specification.

In particular, existing MIME mechanisms provide for named media type (content-type field) parameters as well as named disposition (content-disposition field). A MIME media type may specify any number of parameters associated with all of its subtypes, and any specific subtype may specify additional parameters for its own use. A MIME disposition value may specify any number of associated parameters, the most important of which is probably the attachment disposition's filename parameter.

These parameter names and values end up appearing in the content-type and content-disposition header fields in Internet email. This inherently imposes three crucial limitations:

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(1) Lines in Internet email header fields are folded according to RFC 822 folding rules. This makes long parameter values problematic.

(2) MIME headers, like the RFC 822 headers they often appear in, are limited to 7bit US-ASCII, and the encoded-word mechanisms of RFC 2047 are not available to parameter values. This makes it impossible to have parameter values in character sets other than US-ASCII without specifying some sort of private per-parameter encoding.

(3) It has recently become clear that character set information is not sufficient to properly display some sorts of information -- language information is also needed [RFC-2130]. For example, support for handicapped
users may require reading text string

aloud. The language the text is written in is needed for this to be done correctly. Some parameter values may need to be displayed, hence there is a need to allow for the inclusion of language information.

The last problem on this list is also an issue for the encoded words defined by RFC 2047, as encoded words are intended primarily for display purposes.

This document defines extensions that address all of these limitations. All of these extensions are implemented in a fashion that is completely compatible at a syntactic level with existing MIME implementations. In addition, the extensions are designed to have as little impact as possible on existing uses of MIME.

IMPORTANT NOTE: These mechanisms end up being somewhat gibbous when
they actually are used. As such, these mechanisms should not be used lightly; they should be reserved for situations where a real need for

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them exists.

2.1. Requirements notation

This document occasionally uses terms that appear in capital letters. When the terms "MUST", "SHOULD", "MUST NOT", "SHOULD NOT", and "MAY" appear capitalized, they are being used to indicate particular requirements of this specification. A discussion of the meanings of these terms appears in [RFC- 2119].

3. Parameter Value Continuations

Long MIME media type or disposition parameter values do not interact well with header line wrapping conventions. In particular, proper header line wrapping depends on there being places where linear whitespace (LWSP) is allowed, which may or may not be present in a parameter value, and even if present may not be recognizable as such since specific knowledge of parameter value syntax may not be available to the agent doing the line wrapping. The result is that long parameter values may end up getting truncated or otherwise damaged by incorrect line wrapping implementations.

A mechanism is therefore needed to break up parameter values into smaller units that are amenable to line wrapping. Any such mechanism MUST be compatible with existing MIME processors. This means that

(1) the mechanism MUST NOT change the syntax of MIME media type and disposition lines, and

(2) the mechanism MUST NOT depend on parameter ordering since MIME states that parameters are not order sensitive. Note that while MIME does prohibit modification of MIME headers during transport, it is still possible that parameters will be reordered when user agent level processing is done.

The obvious solution, then, is to use multiple parameters to contain a single parameter value and to use some kind of distinguished name

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to indicate when this is being done. And this obvious solution is exactly what is specified here: The asterisk character ("*") followed by a decimal count is employed to indicate that multiple parameters are being used to encapsulate a single parameter value. The count starts at 0 and increments by 1 for each subsequent section of the parameter value. Decimal values are used and neither leading zeroes nor gaps in the sequence are allowed.

The original parameter value is recovered by concatenating the various sections of the parameter, in order. For example, the content-type field

```
Content-Type: message/external-body; access-type=URL;
 URL*0="ftp://";
 URL*1="cs.utk.edu/pub/moore/bulk-mailer/bulk-mailer.tar"
```

is semantically identical to

```
Content-Type: message/external-body; access-type=URL;
  URL="ftp://cs.utk.edu/pub/moore/bulk-mailer/bulk-mailer.tar"
```

Note that quotes around parameter values are part of the value syntax; they are NOT part of the value itself. Furthermore, it is explicitly permitted to have a mixture of quoted and unquoted continuation fields.

4. Parameter Value Character Set and Language Information

Some parameter values may need to be qualified with character set or language information. It is clear that a distinguished parameter name is needed to identify when this information is present along with a specific syntax for the information in the value itself. In addition, a lightweight encoding mechanism is needed to accommodate 8 bit information in parameter values.

Asterisks ("*") are reused to provide the indicator that language and

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character set information is present and encoding is being used. A single quote ("'") is used to delimit the character set and language information at the beginning of the parameter value. Percent signs ("%") are used as the encoding flag, which agrees with RFC 2047.

Specifically, an asterisk at the end of a parameter name acts as an indicator that character set and language information may appear at the beginning of the parameter value. A single quote is used to separate the character set, language, and actual value information in the parameter value string, and an percent sign is used to flag octets encoded in hexadecimal. For example:

```
Content-Type: application/x-stuff;
 title*=us-ascii'en-us'This%20is%20%2A%2A%2Afun%2A%2A%2A
```

Note that it is perfectly permissible to leave either the character set or language field blank. Note also that the single quote delimiters MUST be present even when one of the field values is omitted.
This is done when either character set, language, or both are not relevant to the parameter value at hand. This MUST NOT be done in order to indicate a default character set or language -- parameter field definitions MUST NOT assign a default character set or language.

4.1. Combining Character Set, Language, and Parameter Continuations

Character set and language information may be combined with the parameter continuation mechanism. For example:

```
Content-Type: application/x-stuff
 title*0*=us-ascii'en'This%20is%20even%20more%20
 title*1*=%2A%2A%2Afun%2A%2A%2A%20
 title*2="isn't it!"
```

Note that:

(1) Language and character set information only appear at the beginning of a given parameter value.

(2) Continuations do not provide a facility for using more than one character set or language in the same parameter value.

(3) A value presented using multiple continuations may contain a mixture of
encoded and unencoded segments.

(4) The first segment of a continuation MUST be encoded if language and character set information are given.

(5) If the first segment of a continued parameter value is encoded the language and character set field delimiters MUST be present even when the fields are left blank.

5. Language specification in Encoded Words

RFC 2047 provides support for non-US-ASCII character sets in RFC 822 message header comments, phrases, and any unstructured text field. This is done by defining an encoded word construct which can appear in any of these places. Given that these are fields intended for display, it is sometimes necessary to associate language information with encoded words as well as just the character set. This specification extends the definition of an encoded word to allow the inclusion of such information. This is simply done by suffixing the character set specification with an asterisk followed by the language tag. For example:

```
From: =?US-ASCII*EN?Q?Keith_Moore?= <moore@cs.utk.edu>
```

6. IMAP4 Handling of Parameter Values

IMAP4 [RFC-2060] servers SHOULD decode parameter value continuations when generating the BODY and BODYSTRUCTURE fetch attributes.

7. Modifications to MIME ABNF

The ABNF for MIME parameter values given in RFC 2045 is:

```
parameter := attribute "=" value

attribute := token
             ; Matching of attributes
             ; is ALWAYS case-insensitive.
```

This specification changes this ABNF to:

```
parameter := regular-parameter / extended-parameter

regular-parameter := regular-parameter-name "=" value

regular-parameter-name := attribute [section]

attribute := 1*attribute-char
```



```
attribute-char := <any (US-ASCII) CHAR except SPACE, CTLs,
                   "*", "'", "%", or tspecials>

section := initial-section / other-sections

initial-section := "*0"

other-sections := "*" ("1" / "2" / "3" / "4" / "5" /
                       "6" / "7" / "8" / "9") *DIGIT)

extended-parameter := (extended-initial-name "="
                       extended-value) /
                      (extended-other-names "="
                       extended-other-values)

extended-initial-name := attribute [initial-section] "*"

extended-other-names := attribute other-sections "*"

extended-initial-value := [charset] "'" [language] "'"
                          extended-other-values

extended-other-values := *(ext-octet / attribute-char)

ext-octet := "%" 2(DIGIT / "A" / "B" / "C" / "D" / "E" / "F")

charset := <registered character set name>

language
```

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:= <registered language tag [RFC-1766]>

The ABNF given in RFC 2047 for encoded-words is:

encoded-word := "=?" charset "?" encoding "?" encoded-text "?="

This specification changes this ABNF to:

encoded-word := "=?" charset ["*" language] "?" encoded-text "?="

8. Character sets which allow specification of language

In the future it is likely that some character sets will provide facilities for inline language labeling. Such facilities are inherently more flexible than those defined here as they allow for language switching in the middle of a string.

If and when such facilities are developed they SHOULD be used in preference to the language labeling facilities specified here. Note that all the mechanisms defined here allow for the omission of language labels so as to be able to accommodate this possible future usage.

9. Security Considerations

This RFC does not discuss security issues and is not believed to raise any security issues not already endemic in electronic mail and present in fully conforming implementations of MIME.

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* /opt/cola/permits/2308999132_1736194787.2494197/0/mikel-mail-2-3-1-0-g2cc19d5-tar-gz/mikel-mail-2cc19d5/reference/rfc2231 MIME Parameter Value and Encoded Word Extensions.txt
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Network Working Group E. Levinson
Request for Comments: 2387 August 1998
Obsoletes: 2112
Category: Standards Track

The MIME Multipart/Related Content-type

Status of this Memo

This document specifies an Internet standards track protocol for the Internet community, and requests discussion and suggestions for improvements. Please refer to the current edition of the "Internet Official Protocol Standards" (STD 1) for the standardization state and status of this protocol. Distribution of this memo is unlimited.

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Abstract

The Multipart/Related content-type provides a common mechanism for representing objects that are aggregates of related MIME body parts. This document defines the Multipart/Related content-type and provides examples of its use.

1. Introduction

Several applications of MIME, including MIME-PEM, and MIME-Macintosh and other proposals, require multiple body parts that make sense only in the aggregate. The present approach to these compound objects has been to define specific multipart subtypes for each new object. In keeping with the MIME philosophy of having one mechanism to achieve the same goal for different purposes, this document describes a single mechanism for such aggregate or compound objects.

The Multipart/Related content-type addresses the MIME representation of compound objects. The object is categorized by a "type" parameter. Additional parameters are provided to indicate a specific starting body part or root and auxiliary information which may be required when unpacking or processing the object.

Multipart/Related MIME entities may contain Content-Disposition headers that provide suggestions for the storage and display of a body part. Multipart/Related processing takes precedence over Content-Disposition; the interaction between them is discussed in section 4.

Responsibility for the display or processing of a Multipart/Related's constituent entities rests with the application that handles the compound object.

2. Multipart/Related Registration Information

The following form is copied from RFC 1590, Appendix A.

To: IANA@isi.edu
Subject: Registration of new Media Type content-type/subtype

Media Type name: Multipart

Media subtype name: Related

Required parameters: Type, a media type/subtype.

Optional parameters: Start
Start-info

Encoding considerations: Multipart content-types cannot have encodings.

Security considerations: Depends solely on the referenced type.

Published specification: RFC-REL (this document).

Person & email address to contact for further information:
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+1 908 494 1606
XIson@cnj.digex.net

3. Intended usage

The Multipart/Related media type is intended for compound objects consisting of several inter-related body parts. For a Multipart/Related object, proper display cannot be achieved by individually displaying the constituent body parts. The content-type of the Multipart/Related object is specified by the type parameter. The "start" parameter, if given, points, via a content-ID, to the body part that contains the object root. The default root is the first body part within the Multipart/Related body.

The relationships among the body parts of a compound object distinguishes it from other object types. These relationships are often represented by links internal to the object's components that

reference the other components. Within a single operating environment the links are often file names, such links may be represented within a MIME message using content-IDs or the value of some other "Content-" headers.

3.1. The Type Parameter

The type parameter must be specified and its value is the MIME media type of the "root" body part. It permits a MIME user agent to determine the content-type without reference to the enclosed body part. If the value of the type parameter and the root body part's content-type differ then the User Agent's behavior is undefined.

3.2. The Start Parameter

The start parameter, if given, is the content-ID of the compound object's "root". If not present the "root" is the first body part in the Multipart/Related entity. The "root" is the element the applications processes first.

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3.3. The Start-Info Parameter

Additional information can be provided to an application by the start-info parameter. It contains either a string or points, via a content-ID, to another MIME entity in the message. A typical use might be to provide additional command line parameters or a MIME entity giving auxiliary information for processing the compound object.

Applications that use Multipart/Related must specify the interpretation of start-info. User Agents shall provide the parameter's value to the processing application. Processes can distinguish a start-info reference from a token or quoted-string by examining the first non-white-space character, "<" indicates a reference.

3.4. Syntax

```
  related-param   := [ ";"
"start" "=" cid ]
                  [ ";" "start-info"  "="
                    ( cid-list / value ) ]
                  [ ";" "type"  "=" type "/" subtype ]
                  ; order independent

  cid-list        := cid cid-list

  cid             := msg-id     ; c.f. [822]
```



```
  value           := token / quoted-string    ; c.f. [MIME]
                     ; value cannot begin with "<"
```

Note that the parameter values will usually require quoting. Msg-id contains the special characters "<", ">", "@", and perhaps other special characters. If msg-id contains quoted-strings, those quote marks must be escaped. Similarly, the type parameter contains the special character "/".

4. Handling Content-Disposition Headers

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Content-Disposition Headers [DISP] suggest presentation styles for MIME body parts. [DISP] describes two presentation styles, called the disposition type, INLINE and ATTACHMENT. These, used within a multipart entity, allow the sender to suggest presentation information. [DISP] also provides for an optional storage (file) name. Content-Disposition headers could appear in one or more body parts contained within a Multipart/Related entity.

Using Content-Disposition headers in addition to Multipart/Related provides presentation information to User Agents that do not recognize Multipart/Related. They will treat the multipart as Multipart/Mixed and they may find the Content-Disposition information useful.

With Multipart/Related however, the application processing the compound object determines the presentation style for all the contained parts. In that context the Content-Disposition header information is redundant or even misleading. Hence, User Agents that understand Multipart/Related shall ignore the disposition type within a Multipart/Related body part.

It may be possible for a User Agent capable of handling both Multipart/Related and Content-Disposition headers to provide the invoked application the Content-Disposition header's optional filename parameter to the Multipart/Related. The use of that information will depend on the specific application and should be specified when describing the handling of the corresponding compound object. Such descriptions would be appropriate in an RFC registering that object's media type.

5. Examples

5.1 Application/X-FixedRecord

The X-FixedRecord content-type consists of one or more octet-streams and a list of the lengths of each record. The root, which lists the record lengths of each record within the streams. The record length

list, type

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Application/X-FixedRecord, consists of a set of INTEGERs in ASCII format, one per line. Each INTEGER gives the number of octets from the octet-stream body part that constitute the next "record".

The example below, uses a single data block.

```
Content-Type: Multipart/Related; boundary=example-1
      start="<950120.aaCC@XIson.com>";
      type="Application/X-FixedRecord"
      start-info="-o ps"

--example-1
Content-Type: Application/X-FixedRecord
Content-ID: <950120.aaCC@XIson.com>

25
10
34
10
25
21
26
10
--example-1
Content-Type: Application/octet-stream
Content-Description: The fixed length records
Content-Transfer-Encoding: base64
Content-ID: <950120.aaCB@XIson.com>

T2xkIE1hY0RvbmFsZCBoYWQgYSBmYXJtCkUgSS
BFIEkgTwpBbmQgb24gaGlzIGZhcm0gaGUgaGFk
IHNvbWUgZHVja3MKRSBJIEUgSSBPCldpdGggYS
BxdWFjayBxdWFjayBoZXJlLAphIHF1YWNrIHF1
YWNrIHRoZXJlLApldmVyeSB3aGVyZSBhIHF1YW
 NrIHF1YWNrCkUgSSBFIEkgTwo=

--example-1--
```

5.2 Text/X-Okie

The Text/X-Okie is an invented markup language permitting the inclusion of images with text. A feature of this example is the inclusion of two additional body parts, both picture. They are referred to internally by the encapsulated document via each picture's body part content-ID. Usage of "cid:", as in this example, may be useful for a variety of compound objects. It is not, however, a part of the Multipart/Related specification.

```
Content-Type: Multipart/Related; boundary=example-2;
      start="<950118.AEBH@XIson.com>"
      type="Text/x-Okie"

--example-2
Content-Type: Text/x-Okie; charset=iso-8859-1;
      declaration="<950118.AEB0@XIson.com>"
Content-ID: <950118.AEBH@XIson.com>
 Content-Description: Document

{doc}
This picture was taken by an automatic camera mounted ...
{image file=cid:950118.AECB@XIson.com}
{para}
Now this is an enlargement of the area ...
{image file=cid:950118:AFDH@XIson.com}
{/doc}
--example-2
Content-Type: image/jpeg
Content-ID: <950118.AFDH@XIson.com>
Content-Transfer-Encoding: BASE64
Content-Description: Picture A

[encoded jpeg image]
--example-2
Content-Type: image/jpeg
Content-ID: <950118.AECB@XIson.com>
Content-Transfer-Encoding: BASE64
Content-Description: Picture B
```

[encoded jpeg image]
--example-2--

5.3 Content-Disposition

In the above example each image body part could also have a Content-Disposition header. For example,

--example-2
Content-Type:
image/jpeg
Content-ID: <950118.AECB@XIson.com>
Content-Transfer-Encoding: BASE64
Content-Description: Picture B
Content-Disposition: INLINE

[encoded jpeg image]
--example-2--

User Agents that recognize Multipart/Related will ignore the Content-Disposition header's disposition type. Other User Agents will process the Multipart/Related as Multipart/Mixed and may make use of that header's information.

6. User Agent Requirements

User agents that do not recognize Multipart/Related shall, in accordance with [MIME], treat the entire entity as Multipart/Mixed. MIME User Agents that do recognize Multipart/Related entities but are unable to process the given type should give the user the option of suppressing the entire Multipart/Related body part shall be.

Existing MIME-capable mail user agents (MUAs) handle the existing media types in a straightforward manner. For discrete media types (e.g. text, image, etc.) the body of
the entity can be directly
passed to a display process. Similarly the existing composite subtypes can be reduced to handing one or more discrete types. Handling Multipart/Related differs in that processing cannot be reduced to handling the individual entities.

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The following sections discuss what information the processing application requires.

It is possible that an application specific "receiving agent" will manipulate the entities for display prior to invoking actual application process. Okie, above, is an example of this; it may need a receiving agent to parse the document and substitute local file names for the originator's file names. Other applications may just require a table showing the correspondence between the local file names and the originator's. The receiving agent takes responsibility for such processing.

6.1 Data Requirements

MIME-capable mail user agents (MUAs) are required to provide the application:

(a) the bodies of the MIME entities and the entity Content-* headers,

(b) the parameters of the Multipart/Related Content-type header, and

(c) the correspondence between each body's local file name, that body's header data, and, if present, the body part's content-ID.

6.2 Storing Multipart/Related Entities

The Multipart/Related media type will be used for objects that have internal linkages between the body parts. When the objects are stored the linkages may require processing by the application or its receiving agent.

6.3 Recursion

MIME is a recursive structure. Hence one must expect a Multipart/Related entity to contain other Multipart/Related entities. When a Multipart/Related entity is being processed for display or storage, any enclosed Multipart/Related entities shall be processed as though

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they were being stored.

6.4 Configuration Considerations

It is suggested that MUAs that use configuration mechanisms, see [CFG] for an example, refer to Multipart/Related as Multi-part/Related/<type>, were <type> is the value of the "type" parameter.

7. Security Considerations

Security considerations relevant to Multipart/Related are identical to those of the underlying content-type.

8. Acknowledgments

This proposal is the result of conversations the author has had with many people. In particular, Harald A. Alvestrand, James Clark, Charles Goldfarb, Gary Houston, Ned Freed, Ray Moody, and Don Stinchfield, provided both encouragement and invaluable help. The author, however, take full responsibility for all errors contained in this document.

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10. Changes from previous draft (RFC 2112)

Corrected cid urls to conform to RFC 2111; the angle brackets were removed.

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* /opt/cola/permits/2309000566_1736194758.3192005/0/proto-google-common-protos-2-29-0-1-jar/google/api/field_info.proto
* /opt/cola/permits/2309000566_1736194758.3192005/0/proto-google-common-protos-2-29-0-1-jar/google/logging/type/http_request.proto

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1.6166 line-protocol 0.0.0-20210311194329-9aa0e372d097

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1.6171 go-tdigest 3.1.0+incompatible

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1.6172 zap-exp 1.18.1

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1.6173 aws-cli 2.22.10

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{
 "version":"2.0",
 "metadata":{
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  "endpointPrefix":"license-manager",
  "jsonVersion":"1.1",
  "protocol":"json",
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"documentation":" Checks in the specified license. Check in a license when it is no longer in use. "
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"documentation":" Checks out the specified license for offline use. "
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"documentation":" Checks out the specified license. <note> If the account that created the license is the same that is performing the check out, you must specify the account as the beneficiary. </note>"
},
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{"shape":"RateLimitExceededException"},
{"shape":"AccessDeniedException"}
],
"documentation":" Creates a grant for the specified license. A grant shares the use of license entitlements with a specific Amazon Web Services account, an organization, or an organizational unit (OU). For more information, see Granted licenses in License Manager in the License Manager User Guide. "
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"CreateGrantVersion":{
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{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Creates a new version of the specified grant. For more information, see Granted licenses in License Manager in the License Manager User Guide. "
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],
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{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},

{"shape":"RateLimitExceededException"}
],
"documentation":" Creates a license configuration. A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, Dedicated Instance,
Dedicated Host, or all of these), license affinity to host (how long a license must be associated with a host), and the number of licenses purchased and used. "
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"documentation":" Creates a new license conversion task. "
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"documentation":" Creates a report generator. "
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{"shape":"ServerInternalException"},
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{"shape":"RateLimitExceededException"}
],
"documentation":" Creates a new version of the specified license. "
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"CreateToken":{
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"method":"POST",
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{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"},
{"shape":"ResourceLimitExceededException"},
{"shape":"ServerInternalException"},
{"shape":"ResourceNotFoundException"},
{"shape":"RedirectException"}
],
"documentation":" Creates a long-lived
token. A refresh token is a JWT token used to get an access token. With an access token, you can call AssumeRoleWithWebIdentity to get role credentials that you can use to call License Manager to manage the specified license. "
},
"DeleteGrant":{
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"requestUri":"/"
},

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  "documentation":"<p>Deletes the specified grant.</p>"
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    "requestUri":"/"
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    {"shape":"ServerInternalException"},
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    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
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  ],
```

"documentation":" Deletes the specified license configuration. You cannot delete a license configuration that is in use. "
},
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"http":{
"method":"POST",
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},
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{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"RateLimitExceededException"},
{"shape":"AccessDeniedException"},
{"shape":"ResourceNotFoundException"}
],
"documentation":" Deletes the specified report generator. This action deletes the report generator, which stops it from generating future reports. The action cannot be reversed. It has no effect on the previous reports from this generator. "
},
"DeleteToken":{
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"method":"POST",
"requestUri":"/"
},
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"output":{"shape":"DeleteTokenResponse"},
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{"shape":"RateLimitExceededException"},
{"shape":"ServerInternalException"},
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],
"documentation":" Deletes the specified token. Must be called in the license home Region. "
},
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],
"documentation":" Extends the expiration date for license consumption. "
},
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],
"documentation":" Gets a temporary access token to use with AssumeRoleWithWebIdentity. Access tokens are valid for one hour. "
},
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"documentation":" Gets detailed information about the specified grant. "
},
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"requestUri":"/"
},
"input":{"shape":"GetLicenseConfigurationRequest"},
"output":{"shape":"GetLicenseConfigurationResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Gets detailed
information about the specified license configuration. "
},
"GetLicenseConversionTask":{
"name":"GetLicenseConversionTask",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"GetLicenseConversionTaskRequest"},

"output":{"shape":"GetLicenseConversionTaskResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Gets information about the specified license type conversion task. "
},
"GetLicenseManagerReportGenerator":{
"name":"GetLicenseManagerReportGenerator",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"GetLicenseManagerReportGeneratorRequest"},
"output":{"shape":"GetLicenseManagerReportGeneratorResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"ResourceLimitExceededException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"RateLimitExceededException"},
{"shape":"AccessDeniedException"},
{"shape":"ResourceNotFoundException"}
],
"documentation":" Gets information about the specified report generator. "
},
"GetLicenseUsage":{
"name":"GetLicenseUsage",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"GetLicenseUsageRequest"},
"output":{"shape":"GetLicenseUsageResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"},
{"shape":"ServerInternalException"}
],
"documentation":" Gets detailed information about the usage of the specified license. "
},

"GetServiceSettings":{
"name":"GetServiceSettings",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"GetServiceSettingsRequest"},
"output":{"shape":"GetServiceSettingsResponse"},
"errors":[
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Gets the License Manager settings for the current Region. "
},
"ListAssociationsForLicenseConfiguration":{
"name":"ListAssociationsForLicenseConfiguration",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListAssociationsForLicenseConfigurationRequest"},
"output":{"shape":"ListAssociationsForLicenseConfigurationResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"FilterLimitExceededException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Lists the resource associations for the specified license configuration. Resource associations need not consume licenses from a license configuration. For example, an AMI or a stopped instance might not consume a license (depending on the license rules). "
},
"ListDistributedGrants":{
"name":"ListDistributedGrants",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListDistributedGrantsRequest"},
"output":{"shape":"ListDistributedGrantsResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"ResourceLimitExceededException"},

{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Lists the grants distributed for the specified license. "
},
"ListFailuresForLicenseConfigurationOperations":{
"name":"ListFailuresForLicenseConfigurationOperations",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListFailuresForLicenseConfigurationOperationsRequest"},
"output":{"shape":"ListFailuresForLicenseConfigurationOperationsResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Lists the license configuration operations that failed. "
},
"ListLicenseConfigurations":{
"name":"ListLicenseConfigurations",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListLicenseConfigurationsRequest"},
"output":{"shape":"ListLicenseConfigurationsResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"FilterLimitExceededException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Lists the license configurations for your account. "
},
"ListLicenseConversionTasks":{
"name":"ListLicenseConversionTasks",
"http":{
"method":"POST",
"requestUri":"/"
},

"input":{"shape":"ListLicenseConversionTasksRequest"},
"output":{"shape":"ListLicenseConversionTasksResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Lists the license type conversion tasks for your account. "
},
"ListLicenseManagerReportGenerators":{
"name":"ListLicenseManagerReportGenerators",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListLicenseManagerReportGeneratorsRequest"},
"output":{"shape":"ListLicenseManagerReportGeneratorsResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"ResourceLimitExceededException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"RateLimitExceededException"},
{"shape":"AccessDeniedException"},
{"shape":"ResourceNotFoundException"}
],
"documentation":" Lists the report generators for your account. "
},
"ListLicenseSpecificationsForResource":{
"name":"ListLicenseSpecificationsForResource",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListLicenseSpecificationsForResourceRequest"},
"output":{"shape":"ListLicenseSpecificationsForResourceResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Describes the license configurations for the specified resource. "
},

"ListLicenseVersions":{
  "name":"ListLicenseVersions",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseVersionsRequest"},
  "output":{"shape":"ListLicenseVersionsResponse"},
   "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ],
  "documentation":" Lists all versions of the specified license. "
},
"ListLicenses":{
  "name":"ListLicenses",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicensesRequest"},
  "output":{"shape":"ListLicensesResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ],
  "documentation":" Lists the licenses for your account. "
},
"ListReceivedGrants":{
  "name":"ListReceivedGrants",
   "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListReceivedGrantsRequest"},
  "output":{"shape":"ListReceivedGrantsResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},

{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Lists grants that are received. Received grants are grants created while specifying the recipient as this Amazon Web Services account, your organization, or an organizational unit (OU) to which this member account belongs. "
},
"ListReceivedGrantsForOrganization":{
"name":"ListReceivedGrantsForOrganization",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListReceivedGrantsForOrganizationRequest"},
"output":{"shape":"ListReceivedGrantsForOrganizationResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"ResourceLimitExceededException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Lists the grants received for all accounts in the organization. "
},
"ListReceivedLicenses":{
"name":"ListReceivedLicenses",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListReceivedLicensesRequest"},
"output":{"shape":"ListReceivedLicensesResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"ResourceLimitExceededException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Lists received licenses. "
},
"ListReceivedLicensesForOrganization":{
"name":"ListReceivedLicensesForOrganization",

"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListReceivedLicensesForOrganizationRequest"},
"output":{"shape":"ListReceivedLicensesForOrganizationResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"ResourceLimitExceededException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Lists the licenses received for all accounts in the organization. "
},
"ListResourceInventory":{
"name":"ListResourceInventory",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListResourceInventoryRequest"},
"output":{"shape":"ListResourceInventoryResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"FilterLimitExceededException"},
{"shape":"FailedDependencyException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Lists resources managed using Systems Manager inventory. "
},
"ListTagsForResource":{
"name":"ListTagsForResource",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListTagsForResourceRequest"},
"output":{"shape":"ListTagsForResourceResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},

{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Lists the tags for the specified license configuration. "
},
"ListTokens":{
"name":"ListTokens",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListTokensRequest"},
"output":{"shape":"ListTokensResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"},
{"shape":"ServerInternalException"}
],
"documentation":" Lists your tokens. "
},
"ListUsageForLicenseConfiguration":{
"name":"ListUsageForLicenseConfiguration",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListUsageForLicenseConfigurationRequest"},
"output":{"shape":"ListUsageForLicenseConfigurationResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"FilterLimitExceededException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Lists all license usage records for a license configuration, displaying license consumption details by resource at a selected point in time. Use this action to audit the current license consumption for any license inventory and configuration. "
},
"RejectGrant":{
"name":"RejectGrant",
"http":{
"method":"POST",
"requestUri":"/"
},

"input":{"shape":"RejectGrantRequest"},
"output":{"shape":"RejectGrantResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"},
{"shape":"ResourceLimitExceededException"},
{"shape":"ServerInternalException"}
],
"documentation":" Rejects the specified grant. "
},
"TagResource":{
"name":"TagResource",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"TagResourceRequest"},
"output":{"shape":"TagResourceResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Adds the specified tags to the specified license configuration. "
},
"UntagResource":{
"name":"UntagResource",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"UntagResourceRequest"},
"output":{"shape":"UntagResourceResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Removes the specified tags from the specified license configuration. "
},
"UpdateLicenseConfiguration":{

"name":"UpdateLicenseConfiguration",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"UpdateLicenseConfigurationRequest"},
"output":{"shape":"UpdateLicenseConfigurationResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"},
{"shape":"ResourceLimitExceededException"}
],
"documentation":" Modifies the attributes of an existing license configuration. "
},
"UpdateLicenseManagerReportGenerator":{
"name":"UpdateLicenseManagerReportGenerator",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"UpdateLicenseManagerReportGeneratorRequest"},
"output":{"shape":"UpdateLicenseManagerReportGeneratorResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"RateLimitExceededException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"ResourceNotFoundException"},
{"shape":"ResourceLimitExceededException"}
],
"documentation":" Updates a report generator. After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated. "
},
"UpdateLicenseSpecificationsForResource":{
"name":"UpdateLicenseSpecificationsForResource",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"UpdateLicenseSpecificationsForResourceRequest"},
"output":{"shape":"UpdateLicenseSpecificationsForResourceResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},

{"shape":"InvalidResourceStateException"},
{"shape":"LicenseUsageException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Adds or removes the specified license configurations for the specified Amazon Web Services resource. You can update the license specifications of AMIs, instances, and hosts. You cannot update the license specifications
for launch templates and CloudFormation templates, as they send license configurations to the operation that creates the resource. "
},
"UpdateServiceSettings":{
"name":"UpdateServiceSettings",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"UpdateServiceSettingsRequest"},
"output":{"shape":"UpdateServiceSettingsResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Updates License Manager settings for the current Region. "
}
},
"shapes":{
"AcceptGrantRequest":{
"type":"structure",
"required":["GrantArn"],
"members":{
"GrantArn":{
"shape":"Arn",
"documentation":" Amazon Resource Name (ARN) of the grant. "
}
}
},
"AcceptGrantResponse":{
"type":"structure",
"members":{
"GrantArn":{
"shape":"Arn",
"documentation":" Grant ARN. "

```
    },
    "Status":{
      "shape":"GrantStatus",
      "documentation":"<p>Grant status.</p>"
    },
    "Version":{
      "shape":"String",
      "documentation":"<p>Grant version.</p>"
    }
  }
},
"AccessDeniedException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>Access to resource denied.</p>",
  "exception":true
},
"ActivationOverrideBehavior":{
  "type":"string",
  "enum":[
    "DISTRIBUTED_GRANTS_ONLY",
    "ALL_GRANTS_PERMITTED_BY_ISSUER"
  ]
},
"AllowedOperation":{
  "type":"string",
  "enum":[
    "CreateGrant",
    "CheckoutLicense",
    "CheckoutBorrowLicense",
    "CheckInLicense",
    "ExtendConsumptionLicense",
     "ListPurchasedLicenses",
    "CreateToken"
  ]
},
"AllowedOperationList":{
  "type":"list",
  "member":{"shape":"AllowedOperation"},
  "max":7,
  "min":1
},
"Arn":{
  "type":"string",
  "max":2048,
  "pattern":"^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-
```

Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
},
"ArnList":{
"type":"list",
"member":{"shape":"Arn"}
},
"AuthorizationException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"documentation":" The Amazon Web Services user account does not have permission to perform the action. Check the IAM policy associated with this account. ",
"exception":true
},
"AutomatedDiscoveryInformation":{
"type":"structure",
"members":{
"LastRunTime":{
"shape":"DateTime",
"documentation":" Time that automated discovery last ran. "
}
},
"documentation":" Describes automated discovery. "
},
"Boolean":{"type":"boolean"},
"BorrowConfiguration":{
"type":"structure",
"required":[
"AllowEarlyCheckIn",
"MaxTimeToLiveInMinutes"
],
"members":{
"AllowEarlyCheckIn":{
"shape":"BoxBoolean",
"documentation":" Indicates whether early check-ins are allowed. "
},
"MaxTimeToLiveInMinutes":{
"shape":"BoxInteger",
"documentation":" Maximum time for the borrow configuration, in minutes. "
}
},
"documentation":" Details about a borrow configuration. "
},
"BoxBoolean":{"type":"boolean"},
"BoxInteger":{"type":"integer"},
"BoxLong":{"type":"long"},

"CheckInLicenseRequest":{
"type":"structure",
"required":["LicenseConsumptionToken"],
"members":{
"LicenseConsumptionToken":{
"shape":"String",
"documentation":" License consumption token. "
},
"Beneficiary":{
"shape":"String",
"documentation":" License beneficiary. "
}
}
},
"CheckInLicenseResponse":{
"type":"structure",
"members":{
}
},
"CheckoutBorrowLicenseRequest":{
"type":"structure",
"required":[
"LicenseArn",
"Entitlements",
"DigitalSignatureMethod",
"ClientToken"
],
"members":{
"LicenseArn":{
"shape":"Arn",
"documentation":" Amazon Resource Name (ARN) of the license. The license must use the borrow consumption configuration. "
},
"Entitlements":{
"shape":"EntitlementDataList",
"documentation":" License entitlements. Partial checkouts are not supported. "
},
"DigitalSignatureMethod":{
"shape":"DigitalSignatureMethod",

"documentation":" Digital signature method. The possible value is JSON Web Signature (JWS) algorithm PS384. For more information, see RFC 7518 Digital Signature with RSASSA-PSS. "
},
"NodeId":{
"shape":"String",
"documentation":" Node ID. "
},

"CheckoutMetadata":{
"shape":"MetadataList",
"documentation":" Information about constraints. "
},
"ClientToken":{
"shape":"ClientToken",
"documentation":" Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. "
}
}
},
"CheckoutBorrowLicenseResponse":{
"type":"structure",
"members":{
"LicenseArn":{
"shape":"Arn",
"documentation":" Amazon Resource Name (ARN) of the license. "
},
"LicenseConsumptionToken":{
"shape":"String",
"documentation":" License consumption token. "
},
"EntitlementsAllowed":{
"shape":"EntitlementDataList",
"documentation":" Allowed license entitlements. "
},
"NodeId":{
"shape":"String",
"documentation":" Node ID. "
},
"SignedToken":{
"shape":"SignedToken",
"documentation":" Signed token. "
},
"IssuedAt":{
"shape":"ISO8601DateTime",
"documentation":" Date and time at which the license checkout is issued. "
},
"Expiration":{
"shape":"ISO8601DateTime",
"documentation":" Date and time at which the license checkout expires. "
},
"CheckoutMetadata":{
"shape":"MetadataList",
"documentation":" Information about constraints. "
}
}
},

"CheckoutLicenseRequest":{
"type":"structure",
"required":[
"ProductSKU",
"CheckoutType",
"KeyFingerprint",
"Entitlements",
"ClientToken"
],
"members":{
"ProductSKU":{
"shape":"String",
"documentation":" Product SKU. "
},
"CheckoutType":{
"shape":"CheckoutType",
"documentation":" Checkout type. "
},
"KeyFingerprint":{
"shape":"String",
"documentation":" Key fingerprint identifying the license. "
},
"Entitlements":{
"shape":"EntitlementDataList",
"documentation":" License entitlements. "
},
"ClientToken":{
"shape":"ClientToken",
"documentation":" Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. "
},
"Beneficiary":{
"shape":"String",
"documentation":" License beneficiary. "
},
"NodeId":{
"shape":"String",
"documentation":" Node ID. "
}
}
},
"CheckoutLicenseResponse":{
"type":"structure",
"members":{
"CheckoutType":{
"shape":"CheckoutType",
"documentation":" Checkout type. "
},

"LicenseConsumptionToken":{
"shape":"String",
"documentation":" License consumption token. "
},
"EntitlementsAllowed":{
"shape":"EntitlementDataList",
"documentation":" Allowed license entitlements. "
},
"SignedToken":{
"shape":"SignedToken",
"documentation":" Signed token. "
},
"NodeId":{
"shape":"String",
"documentation":" Node ID. "
},
"IssuedAt":{
"shape":"ISO8601DateTime",
"documentation":" Date and time at which the license checkout is issued. "
},
"Expiration":{
"shape":"ISO8601DateTime",

"documentation":" Date and time at which the license checkout expires. "
},
"LicenseArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the checkout license. "
}
}
},
"CheckoutType":{
"type":"string",
"enum":[
"PROVISIONAL",
"PERPETUAL"
]
},
"ClientRequestToken":{
"type":"string",
"max":36,
"min":1
},
"ClientToken":{
"type":"string",
"max":2048,
"pattern":"\\S+"
},

```
  "ConflictException":{
    "type":"structure",
    "members":{
      "Message":{"shape":"Message"}
    },
    "documentation":"<p>There was a conflict processing the request. Try your request again.</p>",
    "exception":true
  },
  "ConsumedLicenseSummary":{
    "type":"structure",
    "members":{
      "ResourceType":{
        "shape":"ResourceType",
        "documentation":"<p>Resource type of the resource consuming a
license.</p>"
      },
      "ConsumedLicenses":{
        "shape":"BoxLong",
        "documentation":"<p>Number of licenses consumed by the resource.</p>"
      }
    },
    "documentation":"<p>Details about license consumption.</p>"
  },
  "ConsumedLicenseSummaryList":{
    "type":"list",
    "member":{"shape":"ConsumedLicenseSummary"}
  },
  "ConsumptionConfiguration":{
    "type":"structure",
    "members":{
      "RenewType":{
        "shape":"RenewType",
        "documentation":"<p>Renewal frequency.</p>"
      },
      "ProvisionalConfiguration":{
        "shape":"ProvisionalConfiguration",
        "documentation":"<p>Details about a provisional configuration.</p>"
      },
      "BorrowConfiguration":{
        "shape":"BorrowConfiguration",
        "documentation":"<p>Details about a borrow configuration.</p>"
      }
    },
    "documentation":"<p>Details about a consumption configuration.</p>"
  },
  "CreateGrantRequest":{
     "type":"structure",
    "required":[
```

"ClientToken",
"GrantName",
"LicenseArn",
"Principals",
"HomeRegion",
"AllowedOperations"
],
"members":{
"ClientToken":{
"shape":"ClientToken",
"documentation":" Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. "
},
"GrantName":{
"shape":"String",
"documentation":" Grant name. "
},
"LicenseArn":{
"shape":"Arn",
"documentation":" Amazon Resource Name (ARN) of the license. "
},
"Principals":{
"shape":"PrincipalArnList",
"documentation":" The grant principals. You can specify one of the following as an Amazon Resource Name (ARN): <ul> An Amazon Web Services account, which includes only the account specified.   An organizational unit (OU), which includes all accounts in the OU.   An organization, which will include all accounts across your organization. "
},
"HomeRegion":{
"shape":"String",
"documentation":" Home Region of the grant. "
},
"AllowedOperations":{
"shape":"AllowedOperationList",
"documentation":" Allowed operations for the grant. "
}
}
},
"CreateGrantResponse":{
"type":"structure",
"members":{
"GrantArn":{
"shape":"Arn",
"documentation":" Grant ARN. "
},
"Status":{
"shape":"GrantStatus",

"documentation":" Grant status. "
},
"Version":{
"shape":"String",
"documentation":" Grant version. "
}
}
},
"CreateGrantVersionRequest":{
"type":"structure",
"required":[
"ClientToken",
"GrantArn"
],

"members":{
"ClientToken":{
"shape":"ClientToken",
"documentation":" Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. "
},
"GrantArn":{
"shape":"Arn",
"documentation":" Amazon Resource Name (ARN) of the grant. "
},
"GrantName":{
"shape":"String",
"documentation":" Grant name. "
},
"AllowedOperations":{
"shape":"AllowedOperationList",
"documentation":" Allowed operations for the grant. "
},
"Status":{
"shape":"GrantStatus",
"documentation":" Grant status. "
},
"StatusReason":{
"shape":"StatusReasonMessage",
"documentation":" Grant status reason. "
},
"SourceVersion":{
"shape":"String",
"documentation":" Current version of the grant. "
},
"Options":{

"shape":"Options",
"documentation":" The options specified for the grant. "
}
}
},
"CreateGrantVersionResponse":{
"type":"structure",
"members":{
"GrantArn":{
"shape":"Arn",
"documentation":" Grant ARN. "
},
"Status":{
"shape":"GrantStatus",
"documentation":" Grant status. "
},
"Version":{
"shape":"String",
"documentation":" New version of the grant. "
}
}
},
"CreateLicenseConfigurationRequest":{
"type":"structure",
"required":[
"Name",
"LicenseCountingType"
],
"members":{
"Name":{
"shape":"String",
"documentation":" Name of the license configuration. "
},
"Description":{
"shape":"String",
"documentation":" Description of the license configuration. "
},
"LicenseCountingType":{
"shape":"LicenseCountingType",
"documentation":" Dimension used to track the license inventory. "
},
"LicenseCount":{
"shape":"BoxLong",
"documentation":" Number of licenses managed by the license configuration. "
},
"LicenseCountHardLimit":{
"shape":"BoxBoolean",
"documentation":" Indicates whether hard or soft license enforcement is used. Exceeding a hard limit

blocks the launch of new instances. "
      },
      "LicenseRules":{
        "shape":"StringList",
        "documentation":" License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules vary by dimension, as follows.   <code>Cores</code> dimension: <code>allowedTenancy</code> | <code>licenseAffinityToHost</code> | <code>maximumCores</code> | <code>minimumCores</code>   <code>Instances</code> dimension: <code>allowedTenancy</code>
 | <code>maximumCores</code> | <code>minimumCores</code> | <code>maximumSockets</code> | <code>minimumSockets</code> | <code>maximumVcpus</code> | <code>minimumVcpus</code>   <code>Sockets</code> dimension: <code>allowedTenancy</code> | <code>licenseAffinityToHost</code> | <code>maximumSockets</code> | <code>minimumSockets</code>   <code>vCPUs</code> dimension: <code>allowedTenancy</code> | <code>honorVcpuOptimization</code> | <code>maximumVcpus</code> | <code>minimumVcpus</code>   The unit for <code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are <code>True</code> and <code>False</code>. "
      },
      "Tags":{
        "shape":"TagList",
        "documentation":" Tags to add to the
 license configuration. "
      },
      "DisassociateWhenNotFound":{
        "shape":"BoxBoolean",
        "documentation":" When true, disassociates a resource when software is uninstalled. "
      },
      "ProductInformationList":{
        "shape":"ProductInformationList",
        "documentation":" Product information. "
      }
    }
  },
  "CreateLicenseConfigurationResponse":{
    "type":"structure",
    "members":{
      "LicenseConfigurationArn":{
        "shape":"String",
        "documentation":" Amazon Resource Name (ARN) of the license configuration. "
      }
    }
  },
  "CreateLicenseConversionTaskForResourceRequest":{
    "type":"structure",
    "required":[
      "ResourceArn",

"SourceLicenseContext",
"DestinationLicenseContext"
],
"members":{
"ResourceArn":{
"shape":"Arn",
"documentation":" Amazon Resource Name (ARN) of the resource you are converting
the license type for. "
},
"SourceLicenseContext":{
"shape":"LicenseConversionContext",
"documentation":" Information that identifies the license type you are converting from. For the structure of the source license, see Convert a license type using the CLI in the License Manager User Guide. "
},
"DestinationLicenseContext":{
"shape":"LicenseConversionContext",
"documentation":" Information that identifies the license type you are converting to. For the structure of the destination license, see Convert a license type using the CLI in the License Manager User Guide. "
}
}
},
"CreateLicenseConversionTaskForResourceResponse":{
"type":"structure",
"members":{
"LicenseConversionTaskId":{
"shape":"LicenseConversionTaskId",
"documentation":" The ID of the created license type conversion task. "
}
}
},
"CreateLicenseManagerReportGeneratorRequest":{
"type":"structure",
"required":[
"ReportGeneratorName",
"Type",
"ReportContext",
"ReportFrequency",
"ClientToken"
],
"members":{
"ReportGeneratorName":{
"shape":"ReportGeneratorName",
"documentation":" Name of the report generator. "
},

"Type":{
"shape":"ReportTypeList",
"documentation":" Type of reports to generate. The following report types an be generated: <ul> License configuration report - Reports the number and details of consumed licenses for a license configuration.   Resource report - Reports the tracked licenses and resource consumption for a license configuration. "
},
"ReportContext":{
"shape":"ReportContext",
"documentation":" Defines the type of license configuration the report generator tracks. "
},
"ReportFrequency":{
"shape":"ReportFrequency",
"documentation":" Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly. "
},
"ClientToken":{
"shape":"ClientRequestToken",
"documentation":" Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. "
},
"Description":{
"shape":"String",
"documentation":" Description of the report generator. "
},
"Tags":{
"shape":"TagList",
"documentation":" Tags to add to the report generator. "
}
}
},
"CreateLicenseManagerReportGeneratorResponse":{
"type":"structure",
"members":{
"LicenseManagerReportGeneratorArn":{
"shape":"String",
"documentation":" The Amazon Resource Name (ARN) of the new report generator. "
}
}
},
"CreateLicenseRequest":{
"type":"structure",
"required":[
"LicenseName",
"ProductName",
"ProductSKU",
"Issuer",
"HomeRegion",

"Validity",
"Entitlements",
"Beneficiary",
"ConsumptionConfiguration",
"ClientToken"
],
"members":{
"LicenseName":{
"shape":"String",
"documentation":" License name. "
},
"ProductName":{
"shape":"String",
"documentation":" Product name. "
},
"ProductSKU":{
"shape":"String",
"documentation":" Product SKU. "
},
"Issuer":{
"shape":"Issuer",
"documentation":" License issuer. "
},

"HomeRegion":{
"shape":"String",
"documentation":" Home Region for the license. "
},
"Validity":{
"shape":"DatetimeRange",
"documentation":" Date and time range during which the license is valid, in ISO8601-UTC format. "
},
"Entitlements":{
"shape":"EntitlementList",
"documentation":" License entitlements. "
},
"Beneficiary":{
"shape":"String",
"documentation":" License beneficiary. "
},
"ConsumptionConfiguration":{
"shape":"ConsumptionConfiguration",
"documentation":" Configuration for consumption of the license. Choose a provisional configuration for workloads running with continuous connectivity. Choose a borrow configuration for workloads with offline usage. "
},
"LicenseMetadata":{
"shape":"MetadataList",

"documentation":" Information about the license. "
},
"ClientToken":{
"shape":"ClientToken",
"documentation":" Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. "
}
}
},
"CreateLicenseResponse":{
"type":"structure",
"members":{
"LicenseArn":{
"shape":"Arn",
"documentation":" Amazon Resource Name (ARN) of the license. "
},
"Status":{
"shape":"LicenseStatus",
"documentation":" License status. "
},
"Version":{
"shape":"String",
"documentation":" License version. "
}
}
},
"CreateLicenseVersionRequest":{
"type":"structure",
"required":[
"LicenseArn",
"LicenseName",
"ProductName",
"Issuer",
"HomeRegion",
"Validity",
"Entitlements",
"ConsumptionConfiguration",
"Status",
"ClientToken"
],

"members":{
"LicenseArn":{
"shape":"Arn",
"documentation":" Amazon Resource Name (ARN) of the license. "
},
"LicenseName":{
"shape":"String",

"documentation":" License name. "
},
"ProductName":{
"shape":"String",
"documentation":" Product name. "
},
"Issuer":{
"shape":"Issuer",
"documentation":" License issuer. "
},
"HomeRegion":{
"shape":"String",
"documentation":" Home Region of the license. "
},
"Validity":{
"shape":"DatetimeRange",
"documentation":" Date and time range during which the license is valid, in ISO8601-UTC format. "
},
"LicenseMetadata":{
"shape":"MetadataList",
"documentation":" Information about the license. "
},
"Entitlements":{
"shape":"EntitlementList",
"documentation":" License
entitlements. "
},
"ConsumptionConfiguration":{
"shape":"ConsumptionConfiguration",
"documentation":" Configuration for consumption of the license. Choose a provisional configuration for workloads running with continuous connectivity. Choose a borrow configuration for workloads with offline usage. "
},
"Status":{
"shape":"LicenseStatus",
"documentation":" License status. "
},
"ClientToken":{
"shape":"ClientToken",
"documentation":" Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. "
},
"SourceVersion":{
"shape":"String",
"documentation":" Current version of the license. "
}
}
},

"CreateLicenseVersionResponse":{
"type":"structure",
"members":{
"LicenseArn":{
"shape":"Arn",
"documentation":" License
ARN. "
},
"Version":{
"shape":"String",
"documentation":" New version of the license. "
},
"Status":{
"shape":"LicenseStatus",
"documentation":" License status. "
}
}
},
"CreateTokenRequest":{
"type":"structure",
"required":[
"LicenseArn",
"ClientToken"
],
"members":{
"LicenseArn":{
"shape":"Arn",
"documentation":" Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the JWT token. "
},
"RoleArns":{
"shape":"ArnList",
"documentation":" Amazon Resource Name (ARN) of the IAM roles to embed in the token. License Manager does not check whether the roles are in use. "
},
"ExpirationInDays":{
"shape":"Integer",
"documentation":" Token expiration, in days, counted from token creation. The default is 365
days. "
},
"TokenProperties":{
"shape":"MaxSize3StringList",
"documentation":" Data specified by the caller to be included in the JWT token. The data is mapped to the amr claim of the JWT token. "
},
"ClientToken":{
"shape":"ClientToken",
"documentation":" Idempotency token, valid for 10 minutes. "

```
    }
  }
},
"CreateTokenResponse":{
  "type":"structure",
  "members":{
    "TokenId":{
      "shape":"String",
      "documentation":"<p>Token ID.</p>"
    },
    "TokenType":{
      "shape":"TokenType",
      "documentation":"<p>Token type.</p>"
    },
    "Token":{
      "shape":"TokenString",
      "documentation":"<p>Refresh token, encoded as a JWT token.</p>"
    }
  }
},
"DateTime":{"type":"timestamp"},
"DatetimeRange":{
  "type":"structure",
  "required":["Begin"],
  "members":{
    "Begin":{

    "shape":"ISO8601DateTime",
      "documentation":"<p>Start of the time range.</p>"
    },
    "End":{
      "shape":"ISO8601DateTime",
      "documentation":"<p>End of the time range.</p>"
    }
  },
  "documentation":"<p>Describes a time range, in ISO8601-UTC format.</p>"
},
"DeleteGrantRequest":{
  "type":"structure",
  "required":[
    "GrantArn",
    "Version"
  ],
  "members":{
    "GrantArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the grant.</p>"
    },
```

```
    "StatusReason":{
      "shape":"StatusReasonMessage",
      "documentation":"<p>The Status reason for the delete request.</p>"
    },
    "Version":{
      "shape":"String",
      "documentation":"<p>Current version of the grant.</p>"
    }
  }
},
"DeleteGrantResponse":{
  "type":"structure",
  "members":{
    "GrantArn":{
      "shape":"Arn",
       "documentation":"<p>Grant ARN.</p>"
    },
    "Status":{
      "shape":"GrantStatus",
      "documentation":"<p>Grant status.</p>"
    },
    "Version":{
      "shape":"String",
      "documentation":"<p>Grant version.</p>"
    }
  }
},
"DeleteLicenseConfigurationRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{
      "shape":"String",
      "documentation":"<p>ID of the license configuration.</p>"
    }
  }
},
"DeleteLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
  }
},
"DeleteLicenseManagerReportGeneratorRequest":{
  "type":"structure",
  "required":["LicenseManagerReportGeneratorArn"],
  "members":{
    "LicenseManagerReportGeneratorArn":{
      "shape":"String",
```

"documentation":" Amazon Resource Name (ARN) of the report generator to be deleted. "
}
}
},
"DeleteLicenseManagerReportGeneratorResponse":{
"type":"structure",
"members":{
}
},
"DeleteLicenseRequest":{
"type":"structure",
"required":[
"LicenseArn",
"SourceVersion"
],
"members":{
"LicenseArn":{
"shape":"Arn",
"documentation":" Amazon Resource Name (ARN) of the license. "
},
"SourceVersion":{
"shape":"String",
"documentation":" Current version of the license. "
}
}
},
"DeleteLicenseResponse":{
"type":"structure",
"members":{
"Status":{
"shape":"LicenseDeletionStatus",
"documentation":" License status. "
},
"DeletionDate":{
"shape":"ISO8601DateTime",
"documentation":" Date when the license is deleted. "
}
}
},
"DeleteTokenRequest":{
"type":"structure",
"required":["TokenId"],
"members":{
"TokenId":{
"shape":"String",
"documentation":" Token ID. "
}
}

```
},
"DeleteTokenResponse":{
  "type":"structure",
  "members":{
  }
},
"DigitalSignatureMethod":{
  "type":"string",
  "enum":["JWT_PS384"]
},
"Entitlement":{
  "type":"structure",
  "required":[
    "Name",
    "Unit"
  ],
  "members":{
    "Name":{
      "shape":"String",
      "documentation":"<p>Entitlement name.</p>"
    },
    "Value":{
      "shape":"String",
      "documentation":"<p>Entitlement resource. Use only if the unit is None.</p>"
    },
    "MaxCount":{
      "shape":"Long",
      "documentation":"<p>Maximum entitlement count. Use if the unit is not None.</p>"
    },
    "Overage":{
      "shape":"BoxBoolean",
      "documentation":"<p>Indicates whether overages are allowed.</p>"
    },
    "Unit":{
       "shape":"EntitlementUnit",
      "documentation":"<p>Entitlement unit.</p>"
    },
    "AllowCheckIn":{
      "shape":"BoxBoolean",
      "documentation":"<p>Indicates whether check-ins are allowed.</p>"
    }
  },
  "documentation":"<p>Describes a resource entitled for use with a license.</p>"
},
"EntitlementData":{
  "type":"structure",
  "required":[
    "Name",
```

```
    "Unit"
  ],
  "members":{
    "Name":{
      "shape":"String",
      "documentation":"<p>Entitlement data name.</p>"
    },
    "Value":{
      "shape":"String",
      "documentation":"<p>Entitlement data value.</p>"
    },
    "Unit":{
      "shape":"EntitlementDataUnit",
      "documentation":"<p>Entitlement data unit.</p>"
    }
  },
  "documentation":"<p>Data associated with an entitlement resource.</p>"
},
"EntitlementDataList":{
  "type":"list",
  "member":{"shape":"EntitlementData"}
},
"EntitlementDataUnit":{
  "type":"string",
  "enum":[
    "Count",
    "None",
    "Seconds",
    "Microseconds",
    "Milliseconds",
    "Bytes",
    "Kilobytes",
    "Megabytes",
    "Gigabytes",
    "Terabytes",
    "Bits",
    "Kilobits",
    "Megabits",
    "Gigabits",
    "Terabits",
    "Percent",
    "Bytes/Second",
    "Kilobytes/Second",
    "Megabytes/Second",
    "Gigabytes/Second",
    "Terabytes/Second",
    "Bits/Second",
    "Kilobits/Second",
```

"Megabits/Second",
"Gigabits/Second",
"Terabits/Second",
"Count/Second"
]
},
"EntitlementList":{
"type":"list",
"member":{"shape":"Entitlement"}
},
"EntitlementNotAllowedException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"documentation":" The entitlement is not allowed. ",
"exception":true
},
"EntitlementUnit":{
"type":"string",
"enum":[
"Count",
"None",
"Seconds",
"Microseconds",
"Milliseconds",
"Bytes",
"Kilobytes",
"Megabytes",
"Gigabytes",
"Terabytes",
"Bits",
"Kilobits",
"Megabits",
"Gigabits",
"Terabits",
"Percent",
"Bytes/Second",
"Kilobytes/Second",
"Megabytes/Second",
"Gigabytes/Second",
"Terabytes/Second",
"Bits/Second",
"Kilobits/Second",
"Megabits/Second",
"Gigabits/Second",
"Terabits/Second",
"Count/Second"

```
    ]
  },
  "EntitlementUsage":{
    "type":"structure",
    "required":[
      "Name",
      "ConsumedValue",
      "Unit"
    ],
    "members":{
      "Name":{
        "shape":"String",
        "documentation":"<p>Entitlement usage name.</p>"
      },
      "ConsumedValue":{
         "shape":"String",
        "documentation":"<p>Resource usage consumed.</p>"
      },
      "MaxCount":{
        "shape":"String",
        "documentation":"<p>Maximum entitlement usage count.</p>"
      },
      "Unit":{
        "shape":"EntitlementDataUnit",
        "documentation":"<p>Entitlement usage unit.</p>"
      }
    },
    "documentation":"<p>Usage associated with an entitlement resource.</p>"
  },
  "EntitlementUsageList":{
    "type":"list",
    "member":{"shape":"EntitlementUsage"}
  },
  "ExtendLicenseConsumptionRequest":{
    "type":"structure",
    "required":["LicenseConsumptionToken"],
    "members":{
      "LicenseConsumptionToken":{
        "shape":"String",
        "documentation":"<p>License consumption token.</p>"
      },
      "DryRun":{
        "shape":"Boolean",
        "documentation":"<p>Checks whether you have the required permissions for the action, without actually
making the request. Provides
 an error response if you do not have the required permissions.</p>"
      }
    }
```

```
  },
  "ExtendLicenseConsumptionResponse":{
    "type":"structure",
    "members":{
      "LicenseConsumptionToken":{
        "shape":"String",
        "documentation":"<p>License consumption token.</p>"
      },
      "Expiration":{
        "shape":"ISO8601DateTime",
        "documentation":"<p>Date and time at which the license consumption expires.</p>"
      }
    }
  },
  "FailedDependencyException":{
    "type":"structure",
    "members":{
      "Message":{"shape":"Message"},
      "ErrorCode":{"shape":"String"}
    },
    "documentation":"<p>A dependency required to run the API is missing.</p>",
    "exception":true
  },
  "Filter":{
    "type":"structure",
    "members":{
      "Name":{
        "shape":"FilterName",
        "documentation":"<p>Name of the filter. Filter names are case-sensitive.</p>"
      },
      "Values":{

        "shape":"FilterValues",
        "documentation":"<p>The value of the filter, which is case-sensitive. You can only specify one value for the filter.</p>"
      }
    },
    "documentation":"<p>A filter name and value pair that is used to return more specific results from a describe operation. Filters can be used to match a set of resources by specific criteria, such as tags, attributes, or IDs.</p>"
  },
  "FilterLimitExceededException":{
    "type":"structure",
    "members":{
      "Message":{"shape":"Message"}
    },
    "documentation":"<p>The request uses too many filters or too many filter values.</p>",
    "exception":true
  },
```

```
  "FilterList":{
    "type":"list",
    "member":{"shape":"Filter"}
  },
  "FilterName":{"type":"string"},
  "FilterValue":{"type":"string"},
  "FilterValues":{
    "type":"list",
    "member":{"shape":"FilterValue"}
  },
  "Filters":{
    "type":"list",
    "member":{"shape":"Filter"}
  },

"GetAccessTokenRequest":{
    "type":"structure",
    "required":["Token"],
    "members":{
      "Token":{
        "shape":"TokenString",
        "documentation":"<p>Refresh token, encoded as a JWT token.</p>"
      },
      "TokenProperties":{
        "shape":"MaxSize3StringList",
        "documentation":"<p>Token properties to validate against those present in the JWT token.</p>"
      }
    }
  },
  "GetAccessTokenResponse":{
    "type":"structure",
    "members":{
      "AccessToken":{
        "shape":"TokenString",
        "documentation":"<p>Temporary access token.</p>"
      }
    }
  },
  "GetGrantRequest":{
    "type":"structure",
    "required":["GrantArn"],
    "members":{
      "GrantArn":{
        "shape":"Arn",
        "documentation":"<p>Amazon Resource Name (ARN) of the grant.</p>"
      },
      "Version":{
        "shape":"String",
```

```
      "documentation":"<p>Grant version.</p>"
    }
  }
},
 "GetGrantResponse":{
  "type":"structure",
  "members":{
    "Grant":{
      "shape":"Grant",
      "documentation":"<p>Grant details.</p>"
    }
  }
},
"GetLicenseConfigurationRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    }
  }
},
"GetLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
    "LicenseConfigurationId":{
      "shape":"String",
      "documentation":"<p>Unique ID for the license configuration.</p>"
    },
    "LicenseConfigurationArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    },
    "Name":{
      "shape":"String",
      "documentation":"<p>Name of the license configuration.</p>"
     },
    "Description":{
      "shape":"String",
      "documentation":"<p>Description of the license configuration.</p>"
    },
    "LicenseCountingType":{
      "shape":"LicenseCountingType",
      "documentation":"<p>Dimension for which the licenses are counted.</p>"
    },
    "LicenseRules":{
      "shape":"StringList",
```

"documentation":" License rules. "
},
"LicenseCount":{
"shape":"BoxLong",
"documentation":" Number of available licenses. "
},
"LicenseCountHardLimit":{
"shape":"BoxBoolean",
"documentation":" Sets the number of available licenses as a hard limit. "
},
"ConsumedLicenses":{
"shape":"BoxLong",
"documentation":" Number of licenses assigned to resources. "
},
"Status":{
"shape":"String",
"documentation":" License configuration status. "
},
"OwnerAccountId":{
"shape":"String",
"documentation":" Account ID of the owner of the license configuration. "
},
"ConsumedLicenseSummaryList":{
"shape":"ConsumedLicenseSummaryList",
"documentation":" Summaries of the licenses consumed by resources. "
},
"ManagedResourceSummaryList":{
"shape":"ManagedResourceSummaryList",
"documentation":" Summaries of the managed resources. "
},
"Tags":{
"shape":"TagList",
"documentation":" Tags for the license configuration. "
},
"ProductInformationList":{
"shape":"ProductInformationList",
"documentation":" Product information. "
},
"AutomatedDiscoveryInformation":{
"shape":"AutomatedDiscoveryInformation",
"documentation":" Automated discovery information. "
},
"DisassociateWhenNotFound":{
"shape":"BoxBoolean",
"documentation":" When true, disassociates a resource when software is uninstalled. "
}
}
},

"GetLicenseConversionTaskRequest":{
"type":"structure",
"required":["LicenseConversionTaskId"],
"members":{
"LicenseConversionTaskId":{
"shape":"LicenseConversionTaskId",
"documentation":" ID of the license type conversion task to retrieve information on. "
}
}
},
"GetLicenseConversionTaskResponse":{
"type":"structure",
"members":{
"LicenseConversionTaskId":{
"shape":"LicenseConversionTaskId",
"documentation":" ID of the license type conversion task. "
},
"ResourceArn":{
"shape":"String",
"documentation":" Amazon Resource Names (ARN) of the resources the license conversion task is associated with. "
},
"SourceLicenseContext":{
"shape":"LicenseConversionContext",
"documentation":" Information about the license type converted from. "
},
"DestinationLicenseContext":{
"shape":"LicenseConversionContext",
"documentation":" Information about the license type converted to. "
},
"StatusMessage":{
"shape":"String",
"documentation":" The status message for the conversion task. "
},
"Status":{
"shape":"LicenseConversionTaskStatus",
"documentation":" Status of the license type conversion task. "
},
"StartTime":{
"shape":"DateTime",
"documentation":" Time at which the license type conversion task was started . "
},
"LicenseConversionTime":{
"shape":"DateTime",
"documentation":" Amount of time to complete the license type conversion. "
},
"EndTime":{
"shape":"DateTime",

"documentation":" Time
at which the license type conversion task was completed. "
}
}
},
"GetLicenseManagerReportGeneratorRequest":{
"type":"structure",
"required":["LicenseManagerReportGeneratorArn"],
"members":{
"LicenseManagerReportGeneratorArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the report generator. "
}
}
},
"GetLicenseManagerReportGeneratorResponse":{
"type":"structure",
"members":{
"ReportGenerator":{
"shape":"ReportGenerator",
"documentation":" A report generator that creates periodic reports about your license configurations. "
}
}
},
"GetLicenseRequest":{
"type":"structure",
"required":["LicenseArn"],
"members":{
"LicenseArn":{
"shape":"Arn",
"documentation":" Amazon Resource Name (ARN) of the license. "
},
"Version":{

"shape":"String",
"documentation":" License version. "
}
}
},
"GetLicenseResponse":{
"type":"structure",
"members":{
"License":{
"shape":"License",
"documentation":" License details. "
}
}
},

"GetLicenseUsageRequest":{
"type":"structure",
"required":["LicenseArn"],
"members":{
"LicenseArn":{
"shape":"Arn",
"documentation":" Amazon Resource Name (ARN) of the license. "
}
}
},
"GetLicenseUsageResponse":{
"type":"structure",
"members":{
"LicenseUsage":{
"shape":"LicenseUsage",
"documentation":" License usage details. "
}
}
},
"GetServiceSettingsRequest":{
"type":"structure",
"members":{
}
},
"GetServiceSettingsResponse":{
"type":"structure",
"members":{
"S3BucketArn":{
"shape":"String",

"documentation":" Regional S3 bucket path for storing reports, license trail event data, discovery data, and so on. "
},
"SnsTopicArn":{
"shape":"String",
"documentation":" SNS topic configured to receive notifications from License Manager. "
},
"OrganizationConfiguration":{
"shape":"OrganizationConfiguration",
"documentation":" Indicates whether Organizations is integrated with License Manager for cross-account discovery. "
},
"EnableCrossAccountsDiscovery":{
"shape":"BoxBoolean",
"documentation":" Indicates whether cross-account discovery is enabled. "
},
"LicenseManagerResourceShareArn":{
"shape":"String",

"documentation":" Amazon Resource Name (ARN) of the resource share. The License Manager management account provides member accounts with access to this share. "
}
}
},
"Grant":{
"type":"structure",
"required":[
"GrantArn",
"GrantName",
"ParentArn",
"LicenseArn",
"GranteePrincipalArn",
"HomeRegion",
"GrantStatus",
"Version",
"GrantedOperations"
],
"members":{
"GrantArn":{
"shape":"Arn",
"documentation":" Amazon Resource Name (ARN) of the grant. "
},
"GrantName":{
"shape":"String",
"documentation":" Grant name. "
},
"ParentArn":{
"shape":"Arn",
"documentation":" Parent ARN. "
},
"LicenseArn":{
"shape":"Arn",
"documentation":" License ARN. "
},
"GranteePrincipalArn":{
"shape":"Arn",
"documentation":" The grantee principal ARN. "
},
"HomeRegion":{
"shape":"String",
"documentation":" Home Region of the grant. "
},
"GrantStatus":{
"shape":"GrantStatus",
"documentation":" Grant status. "
},
"StatusReason":{

"shape":"StatusReasonMessage",
"documentation":" Grant status reason. "
},
"Version":{
"shape":"String",
"documentation":" Grant version. "
},
"GrantedOperations":{
"shape":"AllowedOperationList",
"documentation":" Granted operations. "
},
"Options":{
"shape":"Options",
"documentation":" The options specified for the grant. "
}
},
"documentation":" Describes a grant. "
},
"GrantList":{
"type":"list",
"member":{"shape":"Grant"}
},
"GrantStatus":{
"type":"string",
"enum":[
"PENDING_WORKFLOW",
"PENDING_ACCEPT",
"REJECTED",
"ACTIVE",
"FAILED_WORKFLOW",
"DELETED",
"PENDING_DELETE",
"DISABLED",

"WORKFLOW_COMPLETED"
]
},
"GrantedLicense":{
"type":"structure",
"members":{
"LicenseArn":{
"shape":"Arn",
"documentation":" Amazon Resource Name (ARN) of the license. "
},
"LicenseName":{
"shape":"String",
"documentation":" License name. "
},

"ProductName":{
"shape":"String",
"documentation":" Product name. "
},
"ProductSKU":{
"shape":"String",
"documentation":" Product SKU. "
},
"Issuer":{
"shape":"IssuerDetails",
"documentation":" Granted license issuer. "
},
"HomeRegion":{
"shape":"String",
"documentation":" Home Region of the granted license. "
},
"Status":{
"shape":"LicenseStatus",
"documentation":" Granted license status. "
},
"Validity":{
"shape":"DatetimeRange",
"documentation":" Date and time range during which the granted license is valid, in ISO8601-UTC format. "
},
"Beneficiary":{
"shape":"String",
"documentation":" Granted license beneficiary. "
},
"Entitlements":{
"shape":"EntitlementList",
"documentation":" License entitlements. "
},
"ConsumptionConfiguration":{
"shape":"ConsumptionConfiguration",
"documentation":" Configuration for consumption of the license. "
},
"LicenseMetadata":{
"shape":"MetadataList",
"documentation":" Granted license metadata. "
},
"CreateTime":{
"shape":"ISO8601DateTime",
"documentation":" Creation time of the granted license. "
},
"Version":{
"shape":"String",
"documentation":" Version of the granted license. "

```
      },
      "ReceivedMetadata":{
        "shape":"ReceivedMetadata",
        "documentation":"<p>Granted license received metadata.</p>"
      }
    },
    "documentation":"<p>Describes a license that is granted to a grantee.</p>"
  },
  "GrantedLicenseList":{
    "type":"list",
    "member":{"shape":"GrantedLicense"}
  },
  "ISO8601DateTime":{
    "type":"string",
    "max":50,
    "pattern":"^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-1][0-9]):([0-5][0-
9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[ 0-3]|[0-1][0-9]):[0-5][0-9])+$"
  },
  "Integer":{"type":"integer"},
  "InvalidParameterValueException":{
    "type":"structure",
    "members":{
      "Message":{"shape":"Message"}
    },
    "documentation":"<p>One or more parameter values are not valid.</p>",
    "exception":true,
    "synthetic":true
  },
  "InvalidResourceStateException":{
    "type":"structure",
    "members":{
      "Message":{"shape":"Message"}

  },
    "documentation":"<p>License Manager cannot allocate a license to a resource because of its state. </p> <p>For
example, you cannot allocate a license to an instance in the process of shutting down.</p>",
    "exception":true
  },
  "InventoryFilter":{
    "type":"structure",
    "required":[
      "Name",
      "Condition"
    ],
    "members":{
      "Name":{
        "shape":"String",
        "documentation":"<p>Name of the filter.</p>"
```

```
      },
      "Condition":{
        "shape":"InventoryFilterCondition",
        "documentation":"<p>Condition of the filter.</p>"
      },
      "Value":{
        "shape":"String",
        "documentation":"<p>Value of the filter.</p>"
      }
    },
    "documentation":"<p>An inventory filter.</p>"
  },
  "InventoryFilterCondition":{
    "type":"string",
    "enum":[
      "EQUALS",
      "NOT_EQUALS",
      "BEGINS_WITH",
      "CONTAINS"
    ]
  },
  "InventoryFilterList":{
     "type":"list",
    "member":{"shape":"InventoryFilter"}
  },
  "Issuer":{
    "type":"structure",
    "required":["Name"],
    "members":{
      "Name":{
        "shape":"String",
        "documentation":"<p>Issuer name.</p>"
      },
      "SignKey":{
        "shape":"String",
        "documentation":"<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
      }
    },
    "documentation":"<p>Details about the issuer of a license.</p>"
  },
  "IssuerDetails":{
    "type":"structure",
    "members":{
      "Name":{
        "shape":"String",
        "documentation":"<p>Issuer name.</p>"
      },
```

"SignKey":{
"shape":"String",
"documentation":" Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, and support the RSASSA-PSS SHA-256 signing algorithm. "
},
"KeyFingerprint":{
"shape":"String",
"documentation":" Issuer key fingerprint. "
}
},
"documentation":" Details associated with the issuer of a license. "
},
"License":{
"type":"structure",
"members":{
"LicenseArn":{
"shape":"Arn",
"documentation":" Amazon Resource Name (ARN) of the license. "
},
"LicenseName":{
"shape":"String",
"documentation":" License name. "
},
"ProductName":{
"shape":"String",
"documentation":" Product name. "
},
"ProductSKU":{
"shape":"String",
"documentation":" Product SKU. "
},
"Issuer":{
"shape":"IssuerDetails",
"documentation":" License issuer. "
},
"HomeRegion":{
"shape":"String",
"documentation":" Home Region of the license. "
},
"Status":{
"shape":"LicenseStatus",
"documentation":" License status. "
},
"Validity":{
"shape":"DatetimeRange",
"documentation":" Date and time range during which the license is valid, in ISO8601-UTC format. "
},
"Beneficiary":{

"shape":"String",
"documentation":" License beneficiary. "
},
"Entitlements":{
"shape":"EntitlementList",
"documentation":" License entitlements. "
},
"ConsumptionConfiguration":{
"shape":"ConsumptionConfiguration",
"documentation":" Configuration for consumption of the license. "
},
"LicenseMetadata":{
"shape":"MetadataList",
"documentation":" License metadata. "
},
"CreateTime":{
"shape":"ISO8601DateTime",
"documentation":" License creation time. "
},
"Version":{
"shape":"String",
"documentation":" License version. "
}
},
"documentation":" Software license that is managed in License Manager. "
},
"LicenseConfiguration":{
"type":"structure",
"members":{
"LicenseConfigurationId":{
"shape":"String",
"documentation":" Unique ID of the license configuration. "
},
"LicenseConfigurationArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the license configuration. "
},
"Name":{
"shape":"String",
"documentation":" Name of the license configuration. "
},
"Description":{
"shape":"String",
"documentation":" Description of the license configuration. "
},
"LicenseCountingType":{
"shape":"LicenseCountingType",
"documentation":" Dimension to use to track the license inventory. "

},
"LicenseRules":{
"shape":"StringList",
"documentation":" License rules. "
},
"LicenseCount":{
"shape":"BoxLong",
"documentation":" Number of licenses managed by the license configuration. "
},
"LicenseCountHardLimit":{
"shape":"BoxBoolean",
"documentation":" Number of available licenses as a hard limit. "
},
"DisassociateWhenNotFound":{
"shape":"BoxBoolean",
"documentation":" When true, disassociates a resource when software is uninstalled. "
},
"ConsumedLicenses":{
"shape":"BoxLong",
"documentation":" Number of licenses consumed. "
},
"Status":{
"shape":"String",
"documentation":" Status of the license configuration. "
},
"OwnerAccountId":{
"shape":"String",
"documentation":" Account ID of the license
configuration's owner. "
},
"ConsumedLicenseSummaryList":{
"shape":"ConsumedLicenseSummaryList",
"documentation":" Summaries for licenses consumed by various resources. "
},
"ManagedResourceSummaryList":{
"shape":"ManagedResourceSummaryList",
"documentation":" Summaries for managed resources. "
},
"ProductInformationList":{
"shape":"ProductInformationList",
"documentation":" Product information. "
},
"AutomatedDiscoveryInformation":{
"shape":"AutomatedDiscoveryInformation",
"documentation":" Automated discovery information. "
}
},
"documentation":" A license configuration is an abstraction of a customer license agreement that can be

consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared
 tenancy, Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM must be associated with a host), and the number of licenses purchased and used. "
  },
  "LicenseConfigurationAssociation":{
    "type":"structure",
    "members":{
      "ResourceArn":{
        "shape":"String",
        "documentation":" Amazon Resource Name (ARN) of the resource. "
      },
      "ResourceType":{
        "shape":"ResourceType",
        "documentation":" Type of server resource. "
      },
      "ResourceOwnerId":{
        "shape":"String",
        "documentation":" ID of the Amazon Web Services account that owns the resource consuming licenses. "
      },
      "AssociationTime":{
        "shape":"DateTime",
        "documentation":" Time when the license configuration was associated with the resource. "
      },
      "AmiAssociationScope":{
        "shape":"String",
        "documentation":" Scope of
 AMI associations. The possible value is <code>cross-account</code>. "
      }
    },
    "documentation":" Describes an association with a license configuration. "
  },
  "LicenseConfigurationAssociations":{
    "type":"list",
    "member":{"shape":"LicenseConfigurationAssociation"}
  },
  "LicenseConfigurationStatus":{
    "type":"string",
    "enum":[
      "AVAILABLE",
      "DISABLED"
    ]
  },
  "LicenseConfigurationUsage":{
    "type":"structure",
    "members":{
      "ResourceArn":{

"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the resource. "
},
"ResourceType":{
"shape":"ResourceType",
"documentation":" Type of resource. "
},
"ResourceStatus":{
"shape":"String",
"documentation":" Status of the resource. "
},
"ResourceOwnerId":{
"shape":"String",
"documentation":" ID of
the account that owns the resource. "
},
"AssociationTime":{
"shape":"DateTime",
"documentation":" Time when the license configuration was initially associated with the resource. "
},
"ConsumedLicenses":{
"shape":"BoxLong",
"documentation":" Number of licenses consumed by the resource. "
}
},
"documentation":" Details about the usage of a resource associated with a license configuration. "
},
"LicenseConfigurationUsageList":{
"type":"list",
"member":{"shape":"LicenseConfigurationUsage"}
},
"LicenseConfigurations":{
"type":"list",
"member":{"shape":"LicenseConfiguration"}
},
"LicenseConversionContext":{
"type":"structure",
"members":{
"UsageOperation":{
"shape":"UsageOperation",
"documentation":" The Usage operation value that corresponds to the license type you are converting your
resource
from. For more information about which platforms correspond to which usage operation values see <a
href=\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-info-fields.html#billing-info\">Sample
data: usage operation by platform "
}
},
"documentation":" Information about a license type conversion task. "

```
  },
  "LicenseConversionTask":{
    "type":"structure",
    "members":{
      "LicenseConversionTaskId":{
        "shape":"LicenseConversionTaskId",
        "documentation":"<p>The ID of the license type conversion task.</p>"
      },
      "ResourceArn":{
        "shape":"String",
        "documentation":"<p>The Amazon Resource Name (ARN) of the resource associated with the license type
conversion task.</p>"
      },
      "SourceLicenseContext":{
        "shape":"LicenseConversionContext",
        "documentation":"<p>Information about the license type this conversion task converted from.</p>"
      },

      "DestinationLicenseContext":{
        "shape":"LicenseConversionContext",
        "documentation":"<p>Information about the license type this conversion task converted to.</p>"
      },
      "Status":{
        "shape":"LicenseConversionTaskStatus",
        "documentation":"<p>The status of the conversion task.</p>"
      },
      "StatusMessage":{
        "shape":"String",
        "documentation":"<p>The status message for the conversion task.</p>"
      },
      "StartTime":{
        "shape":"DateTime",
        "documentation":"<p>The time the conversion task was started at.</p>"
      },
      "LicenseConversionTime":{
        "shape":"DateTime",
        "documentation":"<p>The time the usage operation value of the resource was changed.</p>"
      },
      "EndTime":{
        "shape":"DateTime",
        "documentation":"<p>The time the conversion task was completed.</p>"
      }
    },
    "documentation":"<p>Information about a
 license type conversion task.</p>"
  },
  "LicenseConversionTaskId":{
    "type":"string",
```

```
  "max":50,
  "pattern":"^lct-[a-zA-Z0-9]*"
 },
 "LicenseConversionTaskStatus":{
  "type":"string",
  "enum":[
    "IN_PROGRESS",
    "SUCCEEDED",
    "FAILED"
  ]
 },
 "LicenseConversionTasks":{
  "type":"list",
  "member":{"shape":"LicenseConversionTask"}
 },
 "LicenseCountingType":{
  "type":"string",
  "enum":[
    "vCPU",
    "Instance",
    "Core",
    "Socket"
  ]
 },
 "LicenseDeletionStatus":{
  "type":"string",
  "enum":[
    "PENDING_DELETE",
    "DELETED"
  ]
 },
 "LicenseList":{
  "type":"list",
  "member":{"shape":"License"}
 },
 "LicenseOperationFailure":{
  "type":"structure",
  "members":{
    "ResourceArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the resource.</p>"
    },

"ResourceType":{
      "shape":"ResourceType",
      "documentation":"<p>Resource type.</p>"
    },
    "ErrorMessage":{
```

"shape":"String",
"documentation":" Error message. "
},
"FailureTime":{
"shape":"DateTime",
"documentation":" Failure time. "
},
"OperationName":{
"shape":"String",
"documentation":" Name of the operation. "
},
"ResourceOwnerId":{
"shape":"String",
"documentation":" ID of the Amazon Web Services account that owns the resource. "
},
"OperationRequestedBy":{
"shape":"String",
"documentation":" The requester is \"License Manager Automated Discovery\". "
},
"MetadataList":{
"shape":"MetadataList",
"documentation":" Reserved. "
}
},
"documentation":" Describes the failure of a license operation. "
},
"LicenseOperationFailureList":{
"type":"list",
"member":{"shape":"LicenseOperationFailure"}
},
"LicenseSpecification":{
"type":"structure",
"required":["LicenseConfigurationArn"],
"members":{
"LicenseConfigurationArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the license configuration. "
},
"AmiAssociationScope":{
"shape":"String",
"documentation":" Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
},
"documentation":" Details for associating a license configuration with a resource. "
},
"LicenseSpecifications":{
"type":"list",
"member":{"shape":"LicenseSpecification"}

```
  },
  "LicenseStatus":{
    "type":"string",
    "enum":[
      "AVAILABLE",
      "PENDING_AVAILABLE",
      "DEACTIVATED",
      "SUSPENDED",
      "EXPIRED",
      "PENDING_DELETE",
       "DELETED"
    ]
  },
  "LicenseUsage":{
    "type":"structure",
    "members":{
      "EntitlementUsages":{
        "shape":"EntitlementUsageList",
        "documentation":"<p>License entitlement usages.</p>"
      }
    },
    "documentation":"<p>Describes the entitlement usage associated with a license.</p>"
  },
  "LicenseUsageException":{
    "type":"structure",
    "members":{
      "Message":{"shape":"Message"}
    },
    "documentation":"<p>You do not have enough licenses available to support a new resource launch.</p>",
    "exception":true
  },
  "ListAssociationsForLicenseConfigurationRequest":{
    "type":"structure",
    "required":["LicenseConfigurationArn"],
    "members":{
      "LicenseConfigurationArn":{
        "shape":"String",
        "documentation":"<p>Amazon Resource Name (ARN) of a license configuration.</p>"
      },
      "MaxResults":{
        "shape":"BoxInteger",
        "documentation":"<p>Maximum
number of results to return in a single call.</p>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>Token for the next set of results.</p>"
      }
```

```
    }
  },
  "ListAssociationsForLicenseConfigurationResponse":{
    "type":"structure",
    "members":{
      "LicenseConfigurationAssociations":{
        "shape":"LicenseConfigurationAssociations",
        "documentation":"<p>Information about the associations for the license configuration.</p>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>Token for the next set of results.</p>"
      }
    }
  },
  "ListDistributedGrantsRequest":{
    "type":"structure",
    "members":{
      "GrantArns":{
        "shape":"ArnList",
        "documentation":"<p>Amazon Resource Names (ARNs) of the grants.</p>"
      },
      "Filters":{
        "shape":"FilterList",
        "documentation":"<p>Filters to scope the results.
 The following filters are supported:</p> <ul> <li> <p> <code>LicenseArn</code> </p> </li> <li> <p>
<code>GrantStatus</code> </p> </li> <li> <p> <code>GranteePrincipalARN</code> </p> </li> <li> <p>
<code>ProductSKU</code> </p> </li> <li> <p> <code>LicenseIssuerName</code> </p> </li> </ul>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>Token for the next set of results.</p>"
      },
      "MaxResults":{
        "shape":"MaxSize100",
        "documentation":"<p>Maximum number of results to return in a single call.</p>"
      }
    }
  },
  "ListDistributedGrantsResponse":{
    "type":"structure",
    "members":{
      "Grants":{
        "shape":"GrantList",
        "documentation":"<p>Distributed grant details.</p>"
      },
      "NextToken":{
        "shape":"String",
```

"documentation":" Token for the next set of results. "
}
}
},
"ListFailuresForLicenseConfigurationOperationsRequest":{
"type":"structure",
"required":["LicenseConfigurationArn"],
"members":{
"LicenseConfigurationArn":{
"shape":"String",
"documentation":" Amazon Resource Name of the license configuration. "
},
"MaxResults":{
"shape":"BoxInteger",
"documentation":" Maximum number of results to return in a single call. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
}
}
},
"ListFailuresForLicenseConfigurationOperationsResponse":{
"type":"structure",
"members":{
"LicenseOperationFailureList":{
"shape":"LicenseOperationFailureList",
"documentation":" License configuration operations that failed. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
}
}

},
"ListLicenseConfigurationsRequest":{
"type":"structure",
"members":{
"LicenseConfigurationArns":{
"shape":"StringList",
"documentation":" Amazon Resource Names (ARN) of the license configurations. "
},
"MaxResults":{
"shape":"BoxInteger",
"documentation":" Maximum number of results to return in a single call. "
},
"NextToken":{

"shape":"String",
"documentation":" Token for the next set of results. "
},
"Filters":{
"shape":"Filters",
"documentation":" Filters to scope the results. The following filters and logical operators are supported: <ul> <code>licenseCountingType</code> - The dimension for which licenses are counted. Possible values are <code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.   <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license enforcement is used. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.   <code>usagelimitExceeded</code> - A Boolean value that indicates whether the available licenses have been exceeded. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. "
}
}
},
"ListLicenseConfigurationsResponse":{
"type":"structure",
"members":{
"LicenseConfigurations":{
"shape":"LicenseConfigurations",
"documentation":" Information about the license configurations. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
}
}
},
"ListLicenseConversionTasksRequest":{
"type":"structure",
"members":{
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
},
"MaxResults":{
"shape":"BoxInteger",
"documentation":" Maximum number of results to return in a single call. "
},
"Filters":{
"shape":"Filters",
"documentation":" Filters to scope the results. Valid filters are <code>ResourceArns</code> and <code>Status</code>. "
}
}
},

"ListLicenseConversionTasksResponse":{
"type":"structure",
"members":{
"LicenseConversionTasks":{
"shape":"LicenseConversionTasks",
"documentation":" Information about the license configuration tasks for your account. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
}
}
},
"ListLicenseManagerReportGeneratorsRequest":{
"type":"structure",
"members":{
"Filters":{
"shape":"FilterList",
"documentation":" Filters
to scope the results. The following filters are supported: <ul>
<code>LicenseConfigurationArn</code> "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
},
"MaxResults":{
"shape":"MaxSize100",
"documentation":" Maximum number of results to return in a single call. "
}
}
},
"ListLicenseManagerReportGeneratorsResponse":{
"type":"structure",
"members":{
"ReportGenerators":{
"shape":"ReportGeneratorList",
"documentation":" A report generator that creates periodic reports about your license configurations. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
}
}
},
"ListLicenseSpecificationsForResourceRequest":{
"type":"structure",
"required":["ResourceArn"],

"members":{
"ResourceArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of a resource that has an associated license configuration. "
},
"MaxResults":{
"shape":"BoxInteger",
"documentation":" Maximum number of results to return in a single call. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
}
}
},
"ListLicenseSpecificationsForResourceResponse":{
"type":"structure",
"members":{
"LicenseSpecifications":{
"shape":"LicenseSpecifications",
"documentation":" License configurations associated with a resource. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
}
}
},
"ListLicenseVersionsRequest":{
"type":"structure",

"required":["LicenseArn"],
"members":{
"LicenseArn":{
"shape":"Arn",
"documentation":" Amazon Resource Name (ARN) of the license. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
},
"MaxResults":{
"shape":"MaxSize100",
"documentation":" Maximum number of results to return in a single call. "
}
}
},

```
  "ListLicenseVersionsResponse":{
    "type":"structure",
    "members":{
      "Licenses":{
        "shape":"LicenseList",
        "documentation":"<p>License details.</p>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>Token for the next set of results.</p>"
      }
    }
  },
  "ListLicensesRequest":{
    "type":"structure",
    "members":{
      "LicenseArns":{
        "shape":"ArnList",
        "documentation":"<p>Amazon Resource Names
(ARNs) of the licenses.</p>"
      },
      "Filters":{
        "shape":"FilterList",
        "documentation":"<p>Filters to scope the results. The following filters are supported:</p> <ul> <li> <p>
<code>Beneficiary</code> </p> </li> <li> <p> <code>ProductSKU</code> </p> </li> <li> <p>
<code>Fingerprint</code> </p> </li> <li> <p> <code>Status</code> </p> </li> </ul>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>Token for the next set of results.</p>"
      },
      "MaxResults":{
        "shape":"MaxSize100",
        "documentation":"<p>Maximum number of results to return in a single call.</p>"
      }
    }
  },
  "ListLicensesResponse":{
    "type":"structure",
    "members":{
      "Licenses":{
        "shape":"LicenseList",
        "documentation":"<p>License details.</p>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>Token for the next set of results.</p>"
```

```
      }
    }
  },
  "ListReceivedGrantsForOrganizationRequest":{
    "type":"structure",
    "required":["LicenseArn"],
    "members":{
      "LicenseArn":{
        "shape":"Arn",
        "documentation":"<p>The Amazon Resource Name (ARN) of the received license.</p>"
      },
      "Filters":{
        "shape":"FilterList",
        "documentation":"<p>Filters to scope the results. The following filters are supported:</p> <ul> <li> <p>
<code>ParentArn</code> </p> </li> <li> <p> <code>GranteePrincipalArn</code> </p> </li> </ul>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>Token for the next set of results.</p>"
      },
      "MaxResults":{
        "shape":"MaxSize100",
        "documentation":"<p>Maximum number of results to return in a single call.</p>"
      }
    }
  },
  "ListReceivedGrantsForOrganizationResponse":{
    "type":"structure",
    "members":{
      "Grants":{

 "shape":"GrantList",
        "documentation":"<p>Lists the grants the organization has received.</p>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>Token for the next set of results.</p>"
      }
    }
  },
  "ListReceivedGrantsRequest":{
    "type":"structure",
    "members":{
      "GrantArns":{
        "shape":"ArnList",
        "documentation":"<p>Amazon Resource Names (ARNs) of the grants.</p>"
      },
      "Filters":{
```

"shape":"FilterList",
"documentation":" Filters to scope the results. The following filters are supported: <ul> <code>ProductSKU</code>   <code>LicenseIssuerName</code>   <code>LicenseArn</code>   <code>GrantStatus</code>   <code>GranterAccountId</code> "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
},
"MaxResults":{
"shape":"MaxSize100",
"documentation":" Maximum number of results to return in a single call. "
}
}
},
"ListReceivedGrantsResponse":{
"type":"structure",
"members":{
"Grants":{
"shape":"GrantList",
"documentation":" Received grant details. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
}
}
},
"ListReceivedLicensesForOrganizationRequest":{
"type":"structure",
"members":{
"Filters":{
"shape":"FilterList",
"documentation":" Filters to scope the results. The following filters are supported: <ul> <code>Beneficiary</code>   <code>ProductSKU</code> "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
},
"MaxResults":{
"shape":"MaxSize100",
"documentation":" Maximum number of results to return in a single call. "
}
}
},

"ListReceivedLicensesForOrganizationResponse":{
"type":"structure",
"members":{
"Licenses":{
"shape":"GrantedLicenseList",
"documentation":" Lists the licenses the organization has received. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
}
}
},
"ListReceivedLicensesRequest":{
"type":"structure",
"members":{
"LicenseArns":{
"shape":"ArnList",
"documentation":" Amazon Resource Names (ARNs) of the licenses. "
},
"Filters":{
"shape":"FilterList",
"documentation":" Filters to scope the results. The following filters are supported: <ul>
<code>ProductSKU</code>
   <code>Status</code>   <code>Fingerprint</code>
<code>IssuerName</code>   <code>Beneficiary</code> "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
},
"MaxResults":{
"shape":"MaxSize100",
"documentation":" Maximum number of results to return in a single call. "
}
}
},
"ListReceivedLicensesResponse":{
"type":"structure",
"members":{
"Licenses":{
"shape":"GrantedLicenseList",
"documentation":" Received license details. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
}

```
    }
  },
  "ListResourceInventoryRequest":{
    "type":"structure",
    "members":{
      "MaxResults":{
        "shape":"BoxInteger",
         "documentation":"<p>Maximum number of results to return in a single call.</p>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>Token for the next set of results.</p>"
      },
      "Filters":{
        "shape":"InventoryFilterList",
        "documentation":"<p>Filters to scope the results. The following filters and logical operators are
supported:</p> <ul> <li> <p> <code>account_id</code> - The ID of the Amazon Web Services account that owns
the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p>
<code>application_name</code> - The name of the application. Logical operators are <code>EQUALS</code> |
<code>BEGINS_WITH</code>.</p> </li> <li> <p> <code>license_included</code> - The type of license
included. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. Possible values are
<code>sql-server-enterprise</code> | <code>sql-server-standard</code> | <code>sql-server-web</code>
 | <code>windows-server-datacenter</code>.</p> </li> <li> <p> <code>platform</code> - The platform of the
resource. Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p> </li> <li> <p>
<code>resource_id</code> - The ID of the resource. Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>tag:&lt;key&gt;</code> - The key/value combination of
a tag assigned to the resource. Logical operators are <code>EQUALS</code> (single account) or
<code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account).</p> </li> </ul>"
      }
    }
  },
  "ListResourceInventoryResponse":{
    "type":"structure",
    "members":{
      "ResourceInventoryList":{
        "shape":"ResourceInventoryList",
        "documentation":"<p>Information about the resources.</p>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>Token for the next set of results.</p>"
      }
    }
  },
  "ListTagsForResourceRequest":{
    "type":"structure",
    "required":["ResourceArn"],
    "members":{
```

"ResourceArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the license configuration. "
}
}
},
"ListTagsForResourceResponse":{
"type":"structure",
"members":{
"Tags":{
"shape":"TagList",
"documentation":" Information about the tags. "
}
}
},
"ListTokensRequest":{
"type":"structure",
"members":{
"TokenIds":{
"shape":"StringList",
"documentation":" Token IDs. "
},
"Filters":{
"shape":"FilterList",
"documentation":" Filters to scope the results. The following filter is supported: <ul>
<code>LicenseArns</code> "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of
results. "
},
"MaxResults":{
"shape":"MaxSize100",
"documentation":" Maximum number of results to return in a single call. "
}
}
},
"ListTokensResponse":{
"type":"structure",
"members":{
"Tokens":{
"shape":"TokenList",
"documentation":" Received token details. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "

```
      }
    }
  },
  "ListUsageForLicenseConfigurationRequest":{
    "type":"structure",
    "required":["LicenseConfigurationArn"],
    "members":{
      "LicenseConfigurationArn":{
        "shape":"String",
        "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
      },
      "MaxResults":{
        "shape":"BoxInteger",
        "documentation":"<p>Maximum number of results to return in a single call.</p>"
      },

 "NextToken":{
        "shape":"String",
        "documentation":"<p>Token for the next set of results.</p>"
      },
      "Filters":{
        "shape":"Filters",
        "documentation":"<p>Filters to scope the results. The following filters and logical operators are
supported:</p> <ul> <li> <p> <code>resourceArn</code> - The ARN of the license configuration resource. Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p>
<code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> |
<code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). Logical operators
are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>resourceAccount</code>
- The ID of the account that owns the resource. Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p> </li> </ul>"
      }
    }
  },
  "ListUsageForLicenseConfigurationResponse":{
    "type":"structure",
    "members":{
      "LicenseConfigurationUsageList":{
        "shape":"LicenseConfigurationUsageList",
        "documentation":"<p>Information about the license configurations.</p>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>Token for the next set of results.</p>"
      }
    }
  },
  "Location":{"type":"string"},
  "Long":{"type":"long"},
```

"ManagedResourceSummary":{
 "type":"structure",
 "members":{
  "ResourceType":{
   "shape":"ResourceType",
   "documentation":" Type of resource associated with a license. "
  },
  "AssociationCount":{
   "shape":"BoxLong",
   "documentation":" Number of resources associated with licenses. "
  }
 },
 "documentation":" Summary information about a managed resource. "
},
"ManagedResourceSummaryList":{
 "type":"list",
 "member":{"shape":"ManagedResourceSummary"}
},
"MaxSize100":{
  "type":"integer",
 "max":100,
 "min":1
},
"MaxSize3StringList":{
 "type":"list",
 "member":{"shape":"String"},
 "max":3
},
"Message":{"type":"string"},
"Metadata":{
 "type":"structure",
 "members":{
  "Name":{
   "shape":"String",
   "documentation":" The key name. "
  },
  "Value":{
   "shape":"String",
   "documentation":" The value. "
  }
 },
 "documentation":" Describes key/value pairs. "
},
"MetadataList":{
 "type":"list",
 "member":{"shape":"Metadata"}
},
"NoEntitlementsAllowedException":{

"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"documentation":" There are no entitlements found for this license, or the entitlement maximum count is reached. ",
"exception":true
},
"Options":{
"type":"structure",
"members":{
"ActivationOverrideBehavior":{
"shape":"ActivationOverrideBehavior",
"documentation":" An activation option for your grant that determines the behavior of activating a grant. Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the <code>Status</code> parameter.   As a license administrator, you can optionally specify an <code>ActivationOverrideBehavior</code> when activating a grant.   As a grantor, you can optionally specify an <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee account in your organization.   As a grantee, if the grantor creating the distributed grant doesnt specify an <code>ActivationOverrideBehavior</code>, you can optionally specify one when you are activating the grant.   <dl> <dt>DISTRIBUTED_GRANTS_ONLY</dt> <dd> Use this value to activate a grant without replacing any member accounts active grants for the same product. </dd> <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt> <dd> Use this value to activate a grant and disable other active grants in any member accounts for the same product. This action will also replace their previously activated grants with this activated grant. </dd> </dl>"
}
},
"documentation":" The options you can specify when you create a new version of a grant, such as activation override behavior. For more information, see Granted licenses in License Manager in the License Manager User Guide. "
},
"OrganizationConfiguration":{
"type":"structure",
"required":["EnableIntegration"],
"members":{
"EnableIntegration":{
"shape":"Boolean",
"documentation":" Enables Organizations integration. "
}
},

"documentation":" Configuration information for Organizations. "
},
"PrincipalArnList":{
"type":"list",
"member":{"shape":"Arn"},

"max":1,
"min":1
},
"ProductInformation":{
"type":"structure",
"required":[
"ResourceType",
"ProductInformationFilterList"
],
"members":{
"ResourceType":{
"shape":"String",
"documentation":" Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. "
},
"ProductInformationFilterList":{
"shape":"ProductInformationFilterList",
"documentation":" A Product information filter consists of a <code>ProductInformationFilterComparator</code> which is a logical operator, a <code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. Accepted values for <code>ProductInformationFilterName</code>
are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. The following filters and are supported when the resource type is <code>SSM_MANAGED</code>: <ul> <code>Application Name</code> - The name of the application. Logical operator is <code>EQUALS</code>.   <code>Application Publisher</code> - The publisher of the application. Logical operator is <code>EQUALS</code>.   <code>Application Version</code> - The version of the application. Logical operator is <code>EQUALS</code>.   <code>Platform Name</code> - The name of the platform. Logical operator is <code>EQUALS</code>.   <code>Platform Type</code> - The platform type. Logical operator is <code>EQUALS</code>.   <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical
operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.   <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>.   <code>License Included</code> - The type of license included. Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>. Possible values are: <code>sql-server-enterprise</code> | <code>sql-server-standard</code> | <code>sql-server-web</code> | <code>windows-server-datacenter</code>.   The following filters and logical operators are supported when the resource type is <code>RDS</code>: <ul> <code>Engine Edition</code> - The edition of the database engine. Logical operator is <code>EQUALS</code>. Possible
values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>.   <code>License Pack</code> - The license pack. Logical operator is <code>EQUALS</code>. Possible values are: <code>data guard</code> | <code>diagnostic pack sqlt</code> | <code>tuning pack sqlt</code> | <code>ols</code> | <code>olap</code>. "
}
},

```
  "documentation":"<p>Describes product information for a license configuration.</p>"
},
"ProductInformationFilter":{
  "type":"structure",
  "required":[
    "ProductInformationFilterName",
    "ProductInformationFilterComparator"
  ],
  "members":{
    "ProductInformationFilterName":{
      "shape":"String",
      "documentation":"<p>Filter name.</p>"
    },
    "ProductInformationFilterValue":{
      "shape":"StringList",
      "documentation":"<p>Filter value.</p>"
    },
    "ProductInformationFilterComparator":{
       "shape":"String",
      "documentation":"<p>Logical operator.</p>"
    }
  },
  "documentation":"<p>Describes product information filters.</p>"
},
"ProductInformationFilterList":{
  "type":"list",
  "member":{"shape":"ProductInformationFilter"}
},
"ProductInformationList":{
  "type":"list",
  "member":{"shape":"ProductInformation"}
},
"ProvisionalConfiguration":{
  "type":"structure",
  "required":["MaxTimeToLiveInMinutes"],
  "members":{
    "MaxTimeToLiveInMinutes":{
      "shape":"BoxInteger",
      "documentation":"<p>Maximum time for the provisional configuration, in minutes.</p>"
    }
  },
  "documentation":"<p>Details about a provisional configuration.</p>"
},
"RateLimitExceededException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
```

"documentation":" Too many requests have been submitted. Try again after
a brief wait. ",
"exception":true
},
"ReceivedMetadata":{
"type":"structure",
"members":{
"ReceivedStatus":{
"shape":"ReceivedStatus",
"documentation":" Received status. "
},
"ReceivedStatusReason":{
"shape":"StatusReasonMessage",
"documentation":" Received status reason. "
},
"AllowedOperations":{
"shape":"AllowedOperationList",
"documentation":" Allowed operations. "
}
},
"documentation":" Metadata associated with received licenses and grants. "
},
"ReceivedStatus":{
"type":"string",
"enum":[
"PENDING_WORKFLOW",
"PENDING_ACCEPT",
"REJECTED",
"ACTIVE",
"FAILED_WORKFLOW",
"DELETED",
"DISABLED",
"WORKFLOW_COMPLETED"
]
},
"RedirectException":{
"type":"structure",
"members":{
"Location":{"shape":"Location"},
"Message":{"shape":"Message"}
},
"documentation":" This is not the correct Region for the resource. Try again. ",
"exception":true
},
"RejectGrantRequest":{
"type":"structure",
"required":["GrantArn"],
"members":{

"GrantArn":{
"shape":"Arn",
"documentation":" Amazon Resource Name (ARN) of the grant. "
}
}
},
"RejectGrantResponse":{
"type":"structure",
"members":{
"GrantArn":{
"shape":"Arn",
"documentation":" Grant ARN. "
},
"Status":{
"shape":"GrantStatus",
"documentation":" Grant status. "
},
"Version":{
"shape":"String",
"documentation":" Grant version. "
}
}
},
"RenewType":{
"type":"string",
"enum":[
"None",
"Weekly",
"Monthly"
]
},
"ReportContext":{
"type":"structure",
"required":["licenseConfigurationArns"],
"members":{
"licenseConfigurationArns":{
"shape":"ArnList",
"documentation":" Amazon Resource Name (ARN) of the license configuration that this generator reports on. "
}
},
"documentation":" Details of the license configuration that this generator reports on. "
},
"ReportFrequency":{
"type":"structure",
"members":{
"value":{
"shape":"Integer",

"documentation":" Number of times within the frequency period that a report is generated. The only supported value is <code>1</code>. "
},
"period":{
"shape":"ReportFrequencyType",
"documentation":" Time period between each report. The period can be daily, weekly, or monthly. "
}
},
"documentation":" Details about how frequently reports are generated. "
},
"ReportFrequencyType":{
"type":"string",
"enum":[
"DAY",
"WEEK",
"MONTH"
]
},
"ReportGenerator":{
"type":"structure",
"members":{
"ReportGeneratorName":{
"shape":"String",
"documentation":" Name of the report generator. "
},
"ReportType":{
"shape":"ReportTypeList",
"documentation":" Type of reports that are generated. "
},
"ReportContext":{
"shape":"ReportContext",
"documentation":" License configuration type for this generator. "
},
"ReportFrequency":{
"shape":"ReportFrequency",
"documentation":" Details about how frequently reports are generated. "
},
"LicenseManagerReportGeneratorArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the report generator. "
},
"LastRunStatus":{
"shape":"String",
"documentation":" Status of the last report generation attempt. "
},
"LastRunFailureReason":{
"shape":"String",

"documentation":" Failure message for the last report generation attempt. "
},
"LastReportGenerationTime":{
"shape":"String",
"documentation":" Time the last report was generated at. "
},
"ReportCreatorAccount":{
"shape":"String",
"documentation":" The Amazon Web Services account ID used to create the report generator. "
},
"Description":{
"shape":"String",
"documentation":" Description of the report generator. "
},
"S3Location":{
"shape":"S3Location",
"documentation":" Details of the S3 bucket that report generator reports are published to. "
},
"CreateTime":{
"shape":"String",
"documentation":" Time the report was created. "
},
"Tags":{

"shape":"TagList",
"documentation":" Tags associated with the report generator. "
}
},
"documentation":" Describe the details of a report generator. "
},
"ReportGeneratorList":{
"type":"list",
"member":{"shape":"ReportGenerator"}
},
"ReportGeneratorName":{
"type":"string",
"max":100,
"min":1
},
"ReportType":{
"type":"string",
"enum":[
"LicenseConfigurationSummaryReport",
"LicenseConfigurationUsageReport"
]
},
"ReportTypeList":{
"type":"list",

```
  "member":{"shape":"ReportType"}
},
"ResourceInventory":{
  "type":"structure",
  "members":{
    "ResourceId":{
      "shape":"String",
      "documentation":"<p>ID of the resource.</p>"
    },
    "ResourceType":{
      "shape":"ResourceType",
      "documentation":"<p>Type of resource.</p>"
    },
    "ResourceArn":{
      "shape":"String",
       "documentation":"<p>Amazon Resource Name (ARN) of the resource.</p>"
    },
    "Platform":{
      "shape":"String",
      "documentation":"<p>Platform of the resource.</p>"
    },
    "PlatformVersion":{
      "shape":"String",
      "documentation":"<p>Platform version of the resource in the inventory.</p>"
    },
    "ResourceOwningAccountId":{
      "shape":"String",
      "documentation":"<p>ID of the account that owns the resource.</p>"
    }
  },
  "documentation":"<p>Details about a resource.</p>"
},
"ResourceInventoryList":{
  "type":"list",
  "member":{"shape":"ResourceInventory"}
},
"ResourceLimitExceededException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>Your resource limits have been exceeded.</p>",
  "exception":true
},
"ResourceNotFoundException":{
  "type":"structure",
  "members":{
```

"Message":{"shape":"Message"}
},
"documentation":" The resource cannot be found. ",
"exception":true
},
"ResourceType":{
"type":"string",
"enum":[
"EC2_INSTANCE",
"EC2_HOST",
"EC2_AMI",
"RDS",
"SYSTEMS_MANAGER_MANAGED_INSTANCE"
]
},
"S3Location":{
"type":"structure",
"members":{
"bucket":{
"shape":"String",
"documentation":" Name of the S3 bucket reports are published to. "
},
"keyPrefix":{
"shape":"String",
"documentation":" Prefix of the S3 bucket reports are published to. "
}
},
"documentation":" Details of the S3 bucket that report generator reports are published to. "
},
"ServerInternalException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"documentation":" The server experienced an internal error. Try again. ",
"exception":true,
"fault":true
},
"SignedToken":{
"type":"string",
"min":4096
},
"StatusReasonMessage":{
"type":"string",
"max":400,
"pattern":"[\\s\\S]+"
},
"String":{"type":"string"},

"StringList":{
  "type":"list",
  "member":{"shape":"String"}
},
"Tag":{
  "type":"structure",
  "members":{
    "Key":{
      "shape":"String",
      "documentation":" Tag key. "
    },
    "Value":{
      "shape":"String",
      "documentation":" Tag value. "
    }
  },
  "documentation":" Details about a tag for a license configuration. "
},
"TagKeyList":{
  "type":"list",
  "member":{"shape":"String"}
},
"TagList":{
  "type":"list",
  "member":{"shape":"Tag"}
},
"TagResourceRequest":{
  "type":"structure",
  "required":[
    "ResourceArn",
    "Tags"
  ],
  "members":{
    "ResourceArn":{
       "shape":"String",
      "documentation":" Amazon Resource Name (ARN) of the license configuration. "
    },
    "Tags":{
      "shape":"TagList",
      "documentation":" One or more tags. "
    }
  }
},
"TagResourceResponse":{
  "type":"structure",
  "members":{
  }
},

"TokenData":{
"type":"structure",
"members":{
"TokenId":{
"shape":"String",
"documentation":" Token ID. "
},
"TokenType":{
"shape":"String",
"documentation":" Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>. "
},
"LicenseArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the license. "
},
"ExpirationTime":{
"shape":"ISO8601DateTime",
"documentation":" Token expiration time, in ISO8601-UTC format. "
},
"TokenProperties":{
"shape":"MaxSize3StringList",
"documentation":" Data specified by the caller. "
},
"RoleArns":{
"shape":"ArnList",
"documentation":" Amazon Resource Names (ARN) of the roles included in the token. "
},
"Status":{
"shape":"String",
"documentation":" Token status. The possible values are <code>AVAILABLE</code> and
<code>DELETED</code>. "
}
},
"documentation":" Describes a token. "
},
"TokenList":{
"type":"list",
"member":{"shape":"TokenData"}
},
"TokenString":{
"type":"string",
"max":4096,
"pattern":"\\S+"
},
"TokenType":{
"type":"string",
"enum":["REFRESH_TOKEN"]

},
"UnsupportedDigitalSignatureMethodException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"documentation":" The digital signature method is unsupported.
Try your request again. ",
"exception":true
},
"UntagResourceRequest":{
"type":"structure",
"required":[
"ResourceArn",
"TagKeys"
],
"members":{
"ResourceArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the license configuration. "
},
"TagKeys":{
"shape":"TagKeyList",
"documentation":" Keys identifying the tags to remove. "
}
}
},
"UntagResourceResponse":{
"type":"structure",
"members":{
}
},
"UpdateLicenseConfigurationRequest":{
"type":"structure",
"required":["LicenseConfigurationArn"],
"members":{
"LicenseConfigurationArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the license configuration. "
},
"LicenseConfigurationStatus":{
"shape":"LicenseConfigurationStatus",
"documentation":" New
status of the license configuration. "
},
"LicenseRules":{
"shape":"StringList",
"documentation":" New license rule. The only rule that you can add after you create a license configuration

is licenseAffinityToHost. "
      },
      "LicenseCount":{
        "shape":"BoxLong",
        "documentation":" New number of licenses managed by the license configuration. "
      },
      "LicenseCountHardLimit":{
        "shape":"BoxBoolean",
        "documentation":" New hard limit of the number of available licenses. "
      },
      "Name":{
        "shape":"String",
        "documentation":" New name of the license configuration. "
      },
      "Description":{
        "shape":"String",
        "documentation":" New description of the license configuration. "
      },
      "ProductInformationList":{
        "shape":"ProductInformationList",
        "documentation":" New
product information. "
      },
      "DisassociateWhenNotFound":{
        "shape":"BoxBoolean",
        "documentation":" When true, disassociates a resource when software is uninstalled. "
      }
    }
  },
  "UpdateLicenseConfigurationResponse":{
    "type":"structure",
    "members":{
    }
  },
  "UpdateLicenseManagerReportGeneratorRequest":{
    "type":"structure",
    "required":[
      "LicenseManagerReportGeneratorArn",
      "ReportGeneratorName",
      "Type",
      "ReportContext",
      "ReportFrequency",
      "ClientToken"
    ],
    "members":{
      "LicenseManagerReportGeneratorArn":{
        "shape":"String",
        "documentation":" Amazon Resource Name (ARN) of the report generator to update. "

},
"ReportGeneratorName":{
"shape":"ReportGeneratorName",
"documentation":" Name of the report generator. "
},
"Type":{
"shape":"ReportTypeList",
"documentation":" Type of reports to generate. The following report types are supported: <ul> License configuration report - Reports the number and details of consumed licenses for a license configuration.   Resource report - Reports the tracked licenses and resource consumption for a license configuration. "
},
"ReportContext":{
"shape":"ReportContext",
"documentation":" The report context. "
},
"ReportFrequency":{
"shape":"ReportFrequency",
"documentation":" Frequency by which reports are generated. "
},
"ClientToken":{
"shape":"ClientRequestToken",
"documentation":" Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. "
},
"Description":{
"shape":"String",
"documentation":" Description of the report generator. "

}
}
},
"UpdateLicenseManagerReportGeneratorResponse":{
"type":"structure",
"members":{
}
},
"UpdateLicenseSpecificationsForResourceRequest":{
"type":"structure",
"required":["ResourceArn"],
"members":{
"ResourceArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the Amazon Web Services resource. "
},
"AddLicenseSpecifications":{
"shape":"LicenseSpecifications",
"documentation":" ARNs of the license configurations to add. "

```
      },
      "RemoveLicenseSpecifications":{
        "shape":"LicenseSpecifications",
        "documentation":"<p>ARNs of the license configurations to remove.</p>"
      }
    }
  },
  "UpdateLicenseSpecificationsForResourceResponse":{
    "type":"structure",
    "members":{
    }
  },
  "UpdateServiceSettingsRequest":{
    "type":"structure",
    "members":{
      "S3BucketArn":{
        "shape":"String",
        "documentation":"<p>Amazon Resource Name (ARN) of the Amazon S3 bucket where the License Manager
information is stored.</p>"
      },
      "SnsTopicArn":{
        "shape":"String",
        "documentation":"<p>Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager
alerts.</p>"
      },
      "OrganizationConfiguration":{
        "shape":"OrganizationConfiguration",
        "documentation":"<p>Enables integration with Organizations for cross-account discovery.</p>"
      },
      "EnableCrossAccountsDiscovery":{
        "shape":"BoxBoolean",
        "documentation":"<p>Activates cross-account discovery.</p>"
      }
    }
  },
  "UpdateServiceSettingsResponse":{
    "type":"structure",
    "members":{
    }
  },
  "UsageOperation":{
    "type":"string",
    "max":50
  },
  "ValidationException":{
    "type":"structure",
    "members":{
      "Message":{"shape":"Message"}
```

```
      },
      "documentation":"<p>The provided input is not valid. Try your request again.</p>",
      "exception":true
    }
  },
  "documentation":"<p>License Manager makes it easier to manage licenses from software vendors across multiple
Amazon Web Services accounts and on-premises servers.</p>"
}
{
  "testCases": [
    {
      "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": true
      }
    },
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      "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
        }
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      "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": false
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      "documentation": "For region us-east-1 with FIPS disabled and DualStack
enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
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      "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
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      "UseDualStack": false
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  {
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-user-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
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    "params": {
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      "UseDualStack": true
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    "params": {
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      "UseFIPS": true,
      "UseDualStack": false
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    "params": {
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      "UseDualStack": false
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    "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
    "expect": {
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        "url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
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    "params": {
      "Region": "us-gov-east-1",
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      "UseDualStack": false
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"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
"expect": {
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"params": {
"Region": "us-gov-east-1",
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"UseDualStack": true

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"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
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"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
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},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
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"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",

"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,

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        "UseDualStack": false
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    "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
        "error": "DualStack is enabled but this partition does not support DualStack"
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    "params": {
        "Region": "us-iso-east-1",
        "UseFIPS": false,
        "UseDualStack": true
    }
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    "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"
        }
    },
    "params": {
        "Region": "us-iso-east-1",
        "UseFIPS": false,
        "UseDualStack": false
    }
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    "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
    "expect": {
        "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
    },
    "params": {
        "Region": "us-isob-east-1",
        "UseFIPS": true,
        "UseDualStack": true
    }
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    "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
        }
    },
    "params": {
        "Region": "us-isob-east-1",
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"UseFIPS": true,
"UseDualStack": false
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"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
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"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
}
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{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": false
}
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"documentation":
"For custom endpoint with region set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"

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            }
        },
        "params": {
            "UseFIPS": false,
            "UseDualStack": false,
            "Endpoint": "https://example.com"
        }
    },
    {
        "documentation": "For custom endpoint with fips enabled and dualstack disabled",
        "expect": {

  "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
        },
        "params": {
            "Region": "us-east-1",
            "UseFIPS": true,
            "UseDualStack": false,
            "Endpoint": "https://example.com"
        }
    },
    {
        "documentation": "For custom endpoint with fips disabled and dualstack enabled",
        "expect": {
            "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
        },
        "params": {
            "Region": "us-east-1",
            "UseFIPS": false,
            "UseDualStack": true,
            "Endpoint": "https://example.com"
        }
    },
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        "documentation": "Missing region",
        "expect": {
            "error": "Invalid Configuration: Missing Region"
        }
    }
  ],
  "version": "1.0"
}
{
  "testCases": [
    {
        "documentation": "For region af-south-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
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"url": "https://license-manager.af-south-1.amazonaws.com"
}
},
"params": {
"Region": "af-south-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region ap-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-east-1.amazonaws.com"
}
},
"params": {
"Region": "ap-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region ap-northeast-1 with FIPS disabled and DualStack disabled",

"expect": {
"endpoint": {
"url": "https://license-manager.ap-northeast-1.amazonaws.com"
}
},
"params": {
"Region": "ap-northeast-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region ap-northeast-2 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-northeast-2.amazonaws.com"
}
},
"params": {
"Region": "ap-northeast-2",
"UseFIPS": false,
"UseDualStack": false
}

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},
{
    "documentation": "For region ap-northeast-3 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.ap-northeast-3.amazonaws.com"
         }
    },
    "params": {
        "Region": "ap-northeast-3",
        "UseFIPS": false,
        "UseDualStack": false
    }
},
{
    "documentation": "For region ap-south-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.ap-south-1.amazonaws.com"
        }
    },
    "params": {
        "Region": "ap-south-1",
        "UseFIPS": false,
        "UseDualStack": false
    }
},
{
    "documentation": "For region ap-southeast-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.ap-southeast-1.amazonaws.com"
        }
    },
    "params": {
        "Region": "ap-southeast-1",

  "UseFIPS": false,
        "UseDualStack": false
    }
},
{
    "documentation": "For region ap-southeast-2 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.ap-southeast-2.amazonaws.com"
        }
    },
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"params": {
"Region": "ap-southeast-2",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-southeast-3.amazonaws.com"
}
},
"params": {
"Region": "ap-southeast-3",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation":
"For region ca-central-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ca-central-1.amazonaws.com"
}
},
"params": {
"Region": "ca-central-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-central-1.amazonaws.com"
}
},
"params": {
"Region": "eu-central-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region eu-north-1 with FIPS disabled and DualStack disabled",

"expect": {
"endpoint":
{
"url": "https://license-manager.eu-north-1.amazonaws.com"
}
},
"params": {
"Region": "eu-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-south-1.amazonaws.com"
}
},
"params": {
"Region": "eu-south-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region eu-west-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-west-1.amazonaws.com"
}
},
"params":
{
"Region": "eu-west-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region eu-west-2 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-west-2.amazonaws.com"
}
},
"params": {
"Region": "eu-west-2",

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            "UseFIPS": false,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region eu-west-3 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.eu-west-3.amazonaws.com"
            }
        },
        "params": {
            "Region": "eu-west-3",
            "UseFIPS": false,
            "UseDualStack": false
        }

},
    {
        "documentation": "For region me-south-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.me-south-1.amazonaws.com"
            }
        },
        "params": {
            "Region": "me-south-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region sa-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.sa-east-1.amazonaws.com"
            }
        },
        "params": {
            "Region": "sa-east-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
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    "endpoint": {
        "url": "https://license-manager.us-east-1.amazonaws.com"
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    "params": {
      "Region": "us-east-1",
      "UseFIPS": false,
      "UseDualStack": false
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  {
    "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-fips.us-east-1.amazonaws.com"
      }
    },
    "params": {
      "Region": "us-east-1",
      "UseFIPS": true,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.us-east-2.amazonaws.com"
      }
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   "params": {
      "Region": "us-east-2",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
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    "documentation": "For region us-east-2 with FIPS enabled and DualStack disabled",
    "expect": {
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        "url": "https://license-manager-fips.us-east-2.amazonaws.com"
      }
    },
    "params": {
      "Region": "us-east-2",
      "UseFIPS": true,
      "UseDualStack": false
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        }
      },
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            "url": "https://license-manager.us-west-1.amazonaws.com"
          }
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        "params": {
          "Region": "us-west-1",
          "UseFIPS": false,
          "UseDualStack": false

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        "expect": {
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          }
        },
        "params": {
          "Region": "us-west-1",
          "UseFIPS": true,
          "UseDualStack": false
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        "documentation": "For region us-west-2 with FIPS disabled and DualStack disabled",
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          "UseDualStack": false
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        "documentation": "For region us-west-2 with FIPS enabled and DualStack disabled",
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          "endpoint": {
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        }
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        "UseDualStack": false
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            "url": "https://license-manager-fips.us-east-1.api.aws"
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        "UseFIPS": true,
        "UseDualStack": true
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    "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.us-east-1.api.aws"
        }
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 "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": true
    }
},
{
    "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.cn-north-1.amazonaws.com.cn"
        }
    },
    "params": {
        "Region": "cn-north-1",
        "UseFIPS": false,
        "UseDualStack": false
    }
},
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    {
      "documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
        }
      },
      "params": {
        "Region": "cn-northwest-1",
        "UseFIPS": false,
        "UseDualStack":
false
      }
    },
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      "expect": {
        "endpoint": {
          "url": "https://license-manager-fips.cn-north-1.api.amazonwebservices.com.cn"
        }
      },
      "params": {
        "Region": "cn-north-1",
        "UseFIPS": true,
        "UseDualStack": true
      }
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      "expect": {
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          "url": "https://license-manager-fips.cn-north-1.amazonaws.com.cn"
        }
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      "params": {
        "Region": "cn-north-1",
        "UseFIPS": true,
        "UseDualStack": false
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and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.cn-north-1.api.amazonwebservices.com.cn"
        }
      },
```

```
    "params": {
      "Region": "cn-north-1",
      "UseFIPS": false,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.us-gov-east-1.amazonaws.com"
      }
    },
    "params": {
      "Region": "us-gov-east-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
       }
    },
    "params": {
      "Region": "us-gov-east-1",
      "UseFIPS": true,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.us-gov-west-1.amazonaws.com"
      }
    },
    "params": {
      "Region": "us-gov-west-1",
      "UseFIPS": false,
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    "expect": {
```

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        "endpoint": {
            "url": "https://license-manager-fips.us-gov-west-1.amazonaws.com"
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    "params": {

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        "UseFIPS": true,
        "UseDualStack": false
    }
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    "expect": {
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        }
    },
    "params": {
        "Region": "us-gov-east-1",
        "UseFIPS": false,
        "UseDualStack": true
    }

},
  {
    "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
        }
    },
    "params": {
        "Region": "us-iso-east-1",
        "UseFIPS": false,
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"UseDualStack": false
}
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{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
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"UseDualStack": true
}
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"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
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"endpoint": {
"url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
}
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"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
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"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
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}
},
"params":

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            "UseDualStack": false
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            "UseFIPS": true,
            "UseDualStack": true
        }
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    {
        "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
            }
        },
        "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": true,
            "UseDualStack": false
        }
     },
    {
        "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
        "expect": {
            "error": "DualStack is enabled but this partition does not support DualStack"
        },
        "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": false,
            "UseDualStack": true
        }
    },
    {
        "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
        "expect": {
            "endpoint": {
                "url": "https://example.com"
            }
        },
```

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    "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": false,
        "Endpoint": "https://example.com"
    }
},
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    "documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
    "expect": {
        "endpoint": {
            "url": "https://example.com"
        }
    },
    "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Endpoint": "https://example.com"
    }
},
{
    "documentation": "For custom endpoint with fips enabled and dualstack disabled",
    "expect": {
        "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
    },
    "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": false,
        "Endpoint": "https://example.com"
    }
},
{
    "documentation": "For custom endpoint with fips disabled and dualstack enabled",
    "expect": {
        "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
    },
    "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": true,
        "Endpoint": "https://example.com"
    }
},
{
    "documentation": "Missing region",
    "expect": {
        "error": "Invalid Configuration: Missing Region"
```

}
}
],
"version": "1.0"
}
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The core team that coordinates development on GitHub can be found here:
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* Martin Zibricky
*
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{
  "version": "1.0",
  "parameters": {
    "Region": {
      "builtIn": "AWS::Region",
      "required": false,
      "documentation": "The AWS region used to dispatch the request.",
      "type": "String"
    },
    "UseDualStack": {
      "builtIn": "AWS::UseDualStack",
      "required": true,
      "default": false,
      "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-

stack, dispatching the request MAY return an error.",
"type": "Boolean"
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"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
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"documentation": "Override the endpoint used to send this request",
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"fn": "isSet",
"argv": [
{
"ref": "Endpoint"
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                  "properties": {},
                  "headers": {}
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                "type": "endpoint"
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            "type": "tree"
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                            ],
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                            "conditions": [
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}
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},
{
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"argv": [
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"fn": "getAttr",
"argv": [
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"ref": "PartitionResult"
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"supportsDualStack"
]
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]
}
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"rules": [
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"conditions": [],
"rules": [
{

"conditions": [],
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"headers": {}
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"type": "endpoint"
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        ],
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"type": "error"
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"type": "tree"
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"output_token": "NextToken",
"result_key": "LicenseConfigurationAssociations"
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"output_token": "NextToken",
"result_key": "LicenseConfigurations"
},
"ListLicenseSpecificationsForResource": {
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"limit_key": "MaxResults",
"output_token": "NextToken",
"result_key": "LicenseSpecifications"
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"limit_key": "MaxResults",
"output_token": "NextToken",

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    "result_key": "ResourceInventoryList"
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    "output_token": "NextToken",
    "result_key": "LicenseConfigurationUsageList"
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  }
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    "limit_key": "MaxResults",
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    "input_token": "NextToken",
    "output_token": "NextToken",
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  }
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   "jsonVersion":"1.1",
   "protocol":"rest-json",
   "protocols":["rest-json"],
   "serviceFullName":"AWS License Manager Linux Subscriptions",
   "serviceId":"License Manager Linux Subscriptions",
   "signatureVersion":"v4",
   "signingName":"license-manager-linux-subscriptions",
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   "auth":["aws.auth#sigv4"]
 },
 "operations":{
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"DeregisterSubscriptionProvider":{
"name":"DeregisterSubscriptionProvider",
"http":{
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"responseCode":200
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"input":{"shape":"DeregisterSubscriptionProviderRequest"},
"output":{"shape":"DeregisterSubscriptionProviderResponse"},
"errors":[
{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"},
{"shape":"ThrottlingException"},
{"shape":"ValidationException"}
],
"documentation":" Remove a third-party subscription provider from the Bring Your Own License (BYOL) subscriptions registered to your account. ",
"idempotent":true
},
"GetRegisteredSubscriptionProvider":{
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"method":"POST",
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"errors":[
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{"shape":"ValidationException"}
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"documentation":" Get details for a Bring Your Own License (BYOL) subscription that's registered to your account. ",
"idempotent":true
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"GetServiceSettings":{
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"input":{"shape":"GetServiceSettingsRequest"},
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"documentation":" Lists the running Amazon EC2 instances that were discovered with commercial Linux subscriptions. ",
"idempotent":true
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"responseCode":200
},
"input":{"shape":"ListTagsForResourceRequest"},
"output":{"shape":"ListTagsForResourceResponse"},
"errors":[

{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"},
{"shape":"ValidationException"}
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"documentation":" List the metadata tags that are assigned to the specified Amazon Web Services resource. "
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"RegisterSubscriptionProvider":{
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"http":{
"method":"POST",
"requestUri":"/subscription/RegisterSubscriptionProvider",
"responseCode":200
},
"input":{"shape":"RegisterSubscriptionProviderRequest"},
"output":{"shape":"RegisterSubscriptionProviderResponse"},
"errors":[
{"shape":"InternalServerException"},
{"shape":"ThrottlingException"},
{"shape":"ValidationException"}
],
"documentation":" Register the supported third-party subscription provider for your Bring Your Own License (BYOL) subscription. ",
"idempotent":true

},
"TagResource":{
"name":"TagResource",
"http":{
"method":"PUT",
"requestUri":"/tags/{resourceArn}",
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"responseCode":200
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"input":{"shape":"UntagResourceRequest"},
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{"shape":"ResourceNotFoundException"}
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"documentation":" Remove one or more metadata tag from the specified Amazon Web Services resource. ",
"idempotent":true
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"responseCode":200
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"errors":[
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{"shape":"ValidationException"}

```
    ],
    "documentation":"<p>Updates the service settings for Linux subscriptions.</p>",
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    "required":["SubscriptionProviderArn"],
    "members":{
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        "documentation":"<p>The Amazon Resource Name (ARN) of the subscription provider resource to
deregister.</p>"
      }
    }
  },
  "DeregisterSubscriptionProviderResponse":{
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    "members":{
    }
  },
  "Filter":{
    "type":"structure",
    "members":{
      "Name":{
        "shape":"String",
        "documentation":"<p>The type of name to filter by.</p>"
      },
      "Operator":{
        "shape":"Operator",
        "documentation":"<p>An operator for filtering results.</p>"
      },
      "Values":{
        "shape":"StringList",
        "documentation":"<p>One or more values for the name to filter by.</p>"
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}
},
"documentation":" A filter object that is used to return more specific results from a describe operation. Filters can be used to match a set of resources by specific criteria. "
},
"FilterList":{
"type":"list",
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"shape":"String",
"documentation":" The timestamp from the last time License Manager retrieved subscription details from your registered third-party Linux subscription provider. "
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"SecretArn":{
"shape":"SecretArn",
"documentation":" The Amazon Resource Name (ARN) of the third-party access secret stored in Secrets Manager for the BYOL registration resource specified in the request. "
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"SubscriptionProviderArn":{
"shape":"SubscriptionProviderArn",
"documentation":" The Amazon Resource Name (ARN) for the BYOL registration resource specified in the request. "
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"SubscriptionProviderSource":{
"shape":"SubscriptionProviderSource",
"documentation":" The subscription provider for the BYOL registration resource specified in the request. "
},
"SubscriptionProviderStatus":{
"shape":"SubscriptionProviderStatus",
"documentation":" The status of the Linux subscription provider access token from the last successful subscription data request. "

},
"SubscriptionProviderStatusMessage":{
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"documentation":" The detailed message from your subscription provider token status. "
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}
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}
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"GetServiceSettingsResponse":{
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"members":{
"HomeRegions":{
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"documentation":" The Region in which License Manager displays the aggregated data for Linux subscriptions. "
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"LinuxSubscriptionsDiscovery":{
"shape":"LinuxSubscriptionsDiscovery",
"documentation":" Lists if discovery has been enabled for Linux subscriptions. "
},
"LinuxSubscriptionsDiscoverySettings":{
"shape":"LinuxSubscriptionsDiscoverySettings",
"documentation":" Lists the settings defined for Linux subscriptions discovery. The settings include if Organizations integration has been enabled, and which Regions data will be aggregated from. "
},
"Status":{
"shape":"Status",
"documentation":" Indicates the status of Linux subscriptions settings being applied. "
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"StatusMessage":{
"shape":"StringMap",
"documentation":" A
message which details the Linux subscriptions service settings current status. "
}
}
},
"Instance":{
"type":"structure",
"members":{
"AccountID":{
"shape":"String",
"documentation":" The account ID which owns the instance. "
},
"AmiId":{

"shape":"String",
"documentation":" The AMI ID used to launch the instance. "
},
"DualSubscription":{
"shape":"String",
"documentation":" Indicates that you have two different license subscriptions for the same software on your instance. "
},
"InstanceID":{
"shape":"String",
"documentation":" The instance ID of the resource. "
},
"InstanceType":{
"shape":"String",
"documentation":" The instance type of the resource. "
},
"LastUpdatedTime":{
"shape":"String",
"documentation":" The
time in which the last discovery updated the instance details. "
},
"OsVersion":{
"shape":"String",
"documentation":" The operating system software version that runs on your instance. "
},
"ProductCode":{
"shape":"ProductCodeList",
"documentation":" The product code for the instance. For more information, see Usage operation values in the License Manager User Guide . "
},
"Region":{
"shape":"String",
"documentation":" The Region the instance is running in. "
},
"RegisteredWithSubscriptionProvider":{
"shape":"String",
"documentation":" Indicates that your instance uses a BYOL license subscription from a third-party Linux subscription provider that you've registered with License Manager. "
},
"Status":{
"shape":"String",
"documentation":" The status of the instance. "
},
"SubscriptionName":{
"shape":"String",
"documentation":" The name of the license subscription that the instance uses. "
},

"SubscriptionProviderCreateTime":{
"shape":"String",
"documentation":" The timestamp when you registered the third-party Linux subscription provider for the subscription that the instance uses. "
},
"SubscriptionProviderUpdateTime":{
"shape":"String",
"documentation":" The timestamp from the last time that the instance synced with the registered third-party Linux subscription provider. "
},
"UsageOperation":{
"shape":"String",
"documentation":" The usage operation of the instance. For more information, see For more information, see Usage
operation values in the License Manager User Guide. "
}
},
"documentation":" Details discovered information about a running instance using Linux subscriptions. "
},
"InstanceList":{
"type":"list",
"member":{"shape":"Instance"}
},
"InternalServerException":{
"type":"structure",
"members":{
"message":{"shape":"String"}
},
"documentation":" An exception occurred with the service. ",
"exception":true,
"fault":true
},
"LinuxSubscriptionsDiscovery":{
"type":"string",
"enum":[
"Enabled",
"Disabled"
]
},
"LinuxSubscriptionsDiscoverySettings":{
"type":"structure",
"required":[
"OrganizationIntegration",
"SourceRegions"
],
"members":{
"OrganizationIntegration":{

"shape":"OrganizationIntegration",
"documentation":" Details
if you have enabled resource discovery across your accounts in Organizations. "
},
"SourceRegions":{
"shape":"StringList",
"documentation":" The Regions in which to discover data for Linux subscriptions. "
}
},
"documentation":" Lists the settings defined for discovering Linux subscriptions. "
},
"ListLinuxSubscriptionInstancesRequest":{
"type":"structure",
"members":{
"Filters":{
"shape":"FilterList",
"documentation":" An array of structures that you can use to filter the results by your specified criteria. For example, you can specify <code>Region</code> in the <code>Name</code>, with the <code>contains</code> operator to list all subscriptions that match a partial string in the <code>Value</code>, such as <code>us-west</code>. For each filter, you can specify one of the following values for the <code>Name</code> key to streamline results:
  <code>AccountID</code>   <code>AmiID</code>   <code>DualSubscription</code>   <code>InstanceID</code>   <code>InstanceType</code>   <code>ProductCode</code>   <code>Region</code>   <code>Status</code>   <code>UsageOperation</code>   For each filter, you can use one of the following <code>Operator</code> values to define the behavior of the filter: <ul> <code>contains</code>   <code>equals</code>   <code>Notequal</code> "
},
"MaxResults":{
"shape":"BoxInteger",
"documentation":" The maximum items to return in a request. "
},
"NextToken":{
"shape":"ListLinuxSubscriptionInstancesRequestNextTokenString",
"documentation":" A token to specify where to start paginating.
This is the nextToken from a previously truncated response. "
}
},
"documentation":" NextToken length limit is half of ddb accepted limit. Increase this limit if parameters in request increases. "
},
"ListLinuxSubscriptionInstancesRequestNextTokenString":{
"type":"string",
"max":16384,
"min":1
},
"ListLinuxSubscriptionInstancesResponse":{

"type":"structure",
"members":{
"Instances":{
"shape":"InstanceList",
"documentation":" An array that contains instance objects. "
},
"NextToken":{
"shape":"String",
"documentation":" The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects. "
}
}
},
"ListLinuxSubscriptionsRequest":{
"type":"structure",
"members":{
"Filters":{
"shape":"FilterList",
"documentation":" An array of structures that you can use to filter the results to those that match one or more sets of key-value pairs that you specify. For example, you can filter by the name of <code>Subscription</code> with an optional operator to see subscriptions that match, partially match, or don't match a certain subscription's name. The valid names for this filter are: <ul> <code>Subscription</code>   The valid Operators for this filter are: <ul> <code>contains</code>   <code>equals</code>   <code>Notequal</code> "
},
"MaxResults":{
"shape":"BoxInteger",
"documentation":" The maximum items to return in a request. "
},
"NextToken":{
"shape":"ListLinuxSubscriptionsRequestNextTokenString",
"documentation":" A token to specify where to start paginating. This is the nextToken from a previously truncated response. "
}
},
"documentation":" NextToken length limit is half of ddb accepted limit. Increase this limit if parameters in request increases. "
},
"ListLinuxSubscriptionsRequestNextTokenString":{
"type":"string",
"max":16384,
"min":1
},
"ListLinuxSubscriptionsResponse":{
"type":"structure",
"members":{

"NextToken":{
"shape":"String",
"documentation":" The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects. "
},
"Subscriptions":{
"shape":"SubscriptionList",
"documentation":" An array that contains subscription objects. "
}
}
},
"ListRegisteredSubscriptionProvidersRequest":{
"type":"structure",
"members":{
"MaxResults":{
"shape":"ListRegisteredSubscriptionProvidersRequestMaxResultsInteger",
"documentation":" The maximum items to return in a request. "
},
"NextToken":{
"shape":"String",
"documentation":" A token to specify where to start paginating. This is the nextToken from a previously truncated response. "
},
"SubscriptionProviderSources":{
"shape":"SubscriptionProviderSourceList",
"documentation":" To filter your results, specify which subscription providers to return in the list. "
}
}
},
"ListRegisteredSubscriptionProvidersRequestMaxResultsInteger":{
"type":"integer",
"box":true,
"max":100,
"min":1
},
"ListRegisteredSubscriptionProvidersResponse":{
"type":"structure",
"members":{
"NextToken":{
"shape":"String",
"documentation":" The next token
used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects. "
},
"RegisteredSubscriptionProviders":{
"shape":"RegisteredSubscriptionProviderList",
"documentation":" The list of BYOL registration resources that fit the criteria you specified in the

request. "
      }
    }
  },
  "ListTagsForResourceRequest":{
    "type":"structure",
    "required":["resourceArn"],
    "members":{
      "resourceArn":{
        "shape":"SubscriptionProviderArn",
        "documentation":" The Amazon Resource Name (ARN) of the resource for which to list metadata tags. ",
        "location":"uri",
        "locationName":"resourceArn"
      }
    }
  },
  "ListTagsForResourceResponse":{
    "type":"structure",
    "members":{
      "tags":{
        "shape":"Tags",

    "documentation":" The metadata tags for the requested resource. "
      }
    }
  },
  "Operator":{
    "type":"string",
    "enum":[
      "Equal",
      "NotEqual",
      "Contains"
    ],
    "max":20,
    "min":1
  },
  "OrganizationIntegration":{
    "type":"string",
    "enum":[
      "Enabled",
      "Disabled"
    ]
  },
  "ProductCodeList":{
    "type":"list",
    "member":{"shape":"String"}
  },

"RegisterSubscriptionProviderRequest":{
"type":"structure",
"required":[
"SecretArn",
"SubscriptionProviderSource"
],
"members":{
"SecretArn":{
"shape":"SecretArn",
"documentation":" The Amazon Resource Name (ARN) of the secret where you've stored your subscription provider's access token. For RHEL subscriptions managed through the Red Hat Subscription Manager (RHSM), the secret contains your Red Hat Offline token. "
},
"SubscriptionProviderSource":{
"shape":"SubscriptionProviderSource",
"documentation":" The supported Linux subscription provider to register. "
},
"Tags":{
"shape":"Tags",
"documentation":" The metadata tags to assign to your registered Linux subscription provider resource. "
}
}
},
"RegisterSubscriptionProviderResponse":{
"type":"structure",
"members":{
"SubscriptionProviderArn":{
"shape":"String",
"documentation":" The Amazon Resource Name (ARN) of the Linux subscription provider resource that you registered. "
},
"SubscriptionProviderSource":{
"shape":"SubscriptionProviderSource",
"documentation":" The Linux subscription provider that you registered. "
},
"SubscriptionProviderStatus":{
"shape":"SubscriptionProviderStatus",
"documentation":" Indicates the status of the registration action for the Linux subscription provider that you requested. "
}
}
},
"RegisteredSubscriptionProvider":{
"type":"structure",
"members":{
"LastSuccessfulDataRetrievalTime":{
"shape":"String",

"documentation":" The timestamp from the last time that License Manager accessed third-party subscription data for your account from your registered Linux subscription provider. "
},
"SecretArn":{
"shape":"SecretArn",
"documentation":" The Amazon Resource Name (ARN) of the Secrets Manager secret that stores your registered Linux subscription provider access token. For RHEL account subscriptions, this is the offline token. "
},
"SubscriptionProviderArn":{
"shape":"SubscriptionProviderArn",
"documentation":" The Amazon Resource Name (ARN) of the Linux subscription provider resource that you registered. "
},
"SubscriptionProviderSource":{

"shape":"SubscriptionProviderSource",
"documentation":" A supported third-party Linux subscription provider. License Manager currently supports Red Hat subscriptions. "
},
"SubscriptionProviderStatus":{
"shape":"SubscriptionProviderStatus",
"documentation":" Indicates the status of your registered Linux subscription provider access token from the last time License Manager retrieved subscription data. For RHEL account subscriptions, this is the status of the offline token. "
},
"SubscriptionProviderStatusMessage":{
"shape":"String",
"documentation":" A detailed message that's associated with your BYOL subscription provider token status. "
}
},
"documentation":" A third-party provider for operating system (OS) platform software and license subscriptions, such as Red Hat. When you register a third-party Linux subscription provider, License Manager can get subscription
data from the registered provider. "
},
"RegisteredSubscriptionProviderList":{
"type":"list",
"member":{"shape":"RegisteredSubscriptionProvider"}
},
"ResourceNotFoundException":{
"type":"structure",
"members":{
"message":{"shape":"String"}
},
"documentation":" Unable to find the requested Amazon Web Services resource. ",
"exception":true
},

"SecretArn":{
"type":"string",
"pattern":"^arn:[a-z0-9-\\.]{1,63}:secretsmanager:[a-z0-9-\\.]{0,63}:[a-z0-9-\\.]{0,63}:secret:[^/]{1,1023}$"
},
"Status":{
"type":"string",
"enum":[
"InProgress",
"Completed",
"Successful",
"Failed"
]
},
"String":{"type":"string"},
"StringList":{
"type":"list",
"member":{"shape":"StringListMemberString"},
"max":100,
"min":1
},
"StringListMemberString":{
"type":"string",
"max":100,
"min":1
},
"StringMap":{
"type":"map",
"key":{"shape":"String"},
"value":{"shape":"String"}
},
"Subscription":{
"type":"structure",
"members":{
"InstanceCount":{
"shape":"BoxLong",
"documentation":" The total amount of running instances using this subscription. "
},
"Name":{
"shape":"String",
"documentation":" The name of the subscription. "
},
"Type":{
"shape":"String",
"documentation":" The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS. "
}

```
    },
    "documentation":"<p>An object which details a discovered Linux subscription.</p>"
  },
  "SubscriptionList":{
    "type":"list",
    "member":{"shape":"Subscription"}
   },
  "SubscriptionProviderArn":{
    "type":"string",
    "pattern":"^arn:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,510}/[a-
z0-9-\\.]{1,510}$"
  },
  "SubscriptionProviderSource":{
    "type":"string",
    "enum":["RedHat"]
  },
  "SubscriptionProviderSourceList":{
    "type":"list",
    "member":{"shape":"SubscriptionProviderSource"}
  },
  "SubscriptionProviderStatus":{
    "type":"string",
    "enum":[
      "ACTIVE",
      "INVALID",
      "PENDING"
    ]
  },
  "TagKeyList":{
    "type":"list",
    "member":{"shape":"String"},
    "max":50,
    "min":0,
    "sensitive":true
  },
  "TagResourceRequest":{
    "type":"structure",
    "required":[
      "resourceArn",
      "tags"
    ],
    "members":{
      "resourceArn":{
        "shape":"SubscriptionProviderArn",
        "documentation":"<p>The Amazon Resource Name (ARN) of the Amazon
 Web Services resource to which to add the specified metadata tags.</p>",
        "location":"uri",
        "locationName":"resourceArn"
```

},
"tags":{
"shape":"Tags",
"documentation":" The metadata tags to assign to the Amazon Web Services resource. Tags are formatted as key value pairs. "
}
}
},
"TagResourceResponse":{
"type":"structure",
"members":{
}
},
"Tags":{
"type":"map",
"key":{"shape":"String"},
"value":{"shape":"String"},
"max":50,
"min":0,
"sensitive":true
},
"ThrottlingException":{
"type":"structure",
"members":{
"message":{"shape":"String"}
},
"documentation":" The request was denied due to request throttling. ",
"exception":true
},
"UntagResourceRequest":{
"type":"structure",
"required":[
"resourceArn",
"tagKeys"
],
"members":{
"resourceArn":{
"shape":"SubscriptionProviderArn",
"documentation":" The Amazon Resource Name (ARN) of the Amazon Web Services resource to remove the metadata tags from. ",
"location":"uri",
"locationName":"resourceArn"
},
"tagKeys":{
"shape":"TagKeyList",
"documentation":" A list of metadata tag keys to remove from the requested resource. ",
"location":"querystring",
"locationName":"tagKeys"

```
      }
    }
  },
  "UntagResourceResponse":{
    "type":"structure",
    "members":{
    }
  },
  "UpdateServiceSettingsRequest":{
    "type":"structure",
    "required":[
      "LinuxSubscriptionsDiscovery",
      "LinuxSubscriptionsDiscoverySettings"
    ],
    "members":{
      "AllowUpdate":{
        "shape":"Boolean",
        "documentation":"<p>Describes if updates are allowed to the service settings for Linux subscriptions. If you allow updates, you can aggregate
 Linux subscription data in more than one home Region.</p>"
      },
      "LinuxSubscriptionsDiscovery":{
        "shape":"LinuxSubscriptionsDiscovery",
        "documentation":"<p>Describes if the discovery of Linux subscriptions is enabled.</p>"
      },
      "LinuxSubscriptionsDiscoverySettings":{
        "shape":"LinuxSubscriptionsDiscoverySettings",
        "documentation":"<p>The settings defined for Linux subscriptions discovery. The settings include if Organizations integration has been enabled, and which Regions data will be aggregated from.</p>"
      }
    }
  },
  "UpdateServiceSettingsResponse":{
    "type":"structure",
    "members":{
      "HomeRegions":{
        "shape":"StringList",
        "documentation":"<p>The Region in which License Manager displays the aggregated data for Linux subscriptions.</p>"
      },
      "LinuxSubscriptionsDiscovery":{
        "shape":"LinuxSubscriptionsDiscovery",
        "documentation":"<p>Lists
 if discovery has been enabled for Linux subscriptions.</p>"
      },
      "LinuxSubscriptionsDiscoverySettings":{
        "shape":"LinuxSubscriptionsDiscoverySettings",
        "documentation":"<p>The settings defined for Linux subscriptions discovery. The settings include if
```

Organizations integration has been enabled, and which Regions data will be aggregated from. "
      },
      "Status":{
        "shape":"Status",
        "documentation":" Indicates the status of Linux subscriptions settings being applied. "
      },
      "StatusMessage":{
        "shape":"StringMap",
        "documentation":" A message which details the Linux subscriptions service settings current status. "
      }
    }
  },
  "ValidationException":{
    "type":"structure",
    "members":{
      "message":{"shape":"String"}
    },
    "documentation":" The provided input is not valid. Try your request again. ",
    "exception":true
  }

 },
 "documentation":" With License Manager, you can discover and track your commercial Linux subscriptions on running Amazon EC2 instances. "
}
{
  "ResponseMetadata": {
      "RequestId": "9a285199-c8d6-47c2-bdb2-314cb47d599d"
  }
}
{
 "pagination": {
  "ListIdentityProviders": {
    "input_token": "NextToken",
    "output_token": "NextToken",
    "limit_key": "MaxResults",
    "result_key": "IdentityProviderSummaries"
  },
  "ListInstances": {
    "input_token": "NextToken",
    "output_token": "NextToken",
    "limit_key": "MaxResults",
    "result_key": "InstanceSummaries"
  },
  "ListProductSubscriptions": {
    "input_token": "NextToken",
    "output_token": "NextToken",
    "limit_key": "MaxResults",

```
    "result_key": "ProductUserSummaries"
  },
  "ListUserAssociations": {
    "input_token": "NextToken",
    "output_token": "NextToken",
    "limit_key": "MaxResults",
    "result_key": "InstanceUserSummaries"
  },
  "ListLicenseServerEndpoints": {
    "input_token": "NextToken",
    "output_token": "NextToken",
    "limit_key": "MaxResults",
    "result_key": "LicenseServerEndpoints"
  }
 }
}
{
 "version":"2.0",
 "metadata":{
  "apiVersion":"2018-05-10",
  "endpointPrefix":"license-manager-user-subscriptions",
  "jsonVersion":"1.1",
  "protocol":"rest-json",
  "protocols":["rest-json"],
  "serviceFullName":"AWS License Manager User Subscriptions",
  "serviceId":"License Manager User Subscriptions",
  "signatureVersion":"v4",
  "signingName":"license-manager-user-subscriptions",
  "uid":"license-manager-user-subscriptions-2018-05-10",
  "auth":["aws.auth#sigv4"]
 },
 "operations":{
  "AssociateUser":{
    "name":"AssociateUser",
    "http":{
      "method":"POST",
      "requestUri":"/user/AssociateUser",
      "responseCode":200
    },
    "input":{"shape":"AssociateUserRequest"},
    "output":{"shape":"AssociateUserResponse"},
    "errors":[
      {"shape":"ServiceQuotaExceededException"},
      {"shape":"ConflictException"},
      {"shape":"ValidationException"},
      {"shape":"ThrottlingException"},
      {"shape":"InternalServerException"},
```

{"shape":"ResourceNotFoundException"},
{"shape":"AccessDeniedException"}
],
"documentation":" Associates the user to an EC2 instance to utilize user-based subscriptions. <note> Your estimated bill for charges on the number of users and related costs will take 48 hours to appear for billing periods that haven't closed (marked as Pending billing status) in Amazon Web Services Billing. For more information, see Viewing your monthly charges in the Amazon Web Services Billing User Guide. </note>",
"idempotent":true
},
"CreateLicenseServerEndpoint":{
"name":"CreateLicenseServerEndpoint",
"http":{
"method":"POST",
"requestUri":"/license-server/CreateLicenseServerEndpoint",
"responseCode":200
},
"input":{"shape":"CreateLicenseServerEndpointRequest"},
"output":{"shape":"CreateLicenseServerEndpointResponse"},
"errors":[
{"shape":"ServiceQuotaExceededException"},
{"shape":"ConflictException"},
{"shape":"ValidationException"},
{"shape":"ThrottlingException"},
{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"},
{"shape":"AccessDeniedException"}
],
"documentation":" Creates a network endpoint for the Remote Desktop Services (RDS) license server. ",
"idempotent":true
},
"DeleteLicenseServerEndpoint":{
"name":"DeleteLicenseServerEndpoint",
"http":{
"method":"POST",
"requestUri":"/license-server/DeleteLicenseServerEndpoint",
"responseCode":200
},
"input":{"shape":"DeleteLicenseServerEndpointRequest"},
"output":{"shape":"DeleteLicenseServerEndpointResponse"},
"errors":[
{"shape":"ServiceQuotaExceededException"},
{"shape":"ConflictException"},
{"shape":"ValidationException"},
{"shape":"ThrottlingException"},
{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"},
{"shape":"AccessDeniedException"}

```
    ],
    "documentation":"<p>Deletes a <code>LicenseServerEndpoint</code> resource.</p>",
    "idempotent":true
  },
  "DeregisterIdentityProvider":{
    "name":"DeregisterIdentityProvider",
    "http":{
      "method":"POST",
      "requestUri":"/identity-provider/DeregisterIdentityProvider",
      "responseCode":200
    },
    "input":{"shape":"DeregisterIdentityProviderRequest"},
    "output":{"shape":"DeregisterIdentityProviderResponse"},
    "errors":[
      {"shape":"ServiceQuotaExceededException"},
      {"shape":"ConflictException"},
      {"shape":"ValidationException"},
      {"shape":"ThrottlingException"},
      {"shape":"InternalServerException"},
      {"shape":"ResourceNotFoundException"},
      {"shape":"AccessDeniedException"}

    ],
    "documentation":"<p>Deregisters the Active Directory identity provider from License Manager user-based
subscriptions.</p>",
    "idempotent":true
  },
  "DisassociateUser":{
    "name":"DisassociateUser",
    "http":{
      "method":"POST",
      "requestUri":"/user/DisassociateUser",
      "responseCode":200
    },
    "input":{"shape":"DisassociateUserRequest"},
    "output":{"shape":"DisassociateUserResponse"},
    "errors":[
      {"shape":"ServiceQuotaExceededException"},
      {"shape":"ConflictException"},
      {"shape":"ValidationException"},
      {"shape":"ThrottlingException"},
      {"shape":"InternalServerException"},
      {"shape":"ResourceNotFoundException"},
      {"shape":"AccessDeniedException"}
    ],
    "documentation":"<p>Disassociates the user from an EC2 instance providing user-based subscriptions.</p>",
    "idempotent":true
  },
```

"ListIdentityProviders":{
  "name":"ListIdentityProviders",

"http":{
    "method":"POST",
    "requestUri":"/identity-provider/ListIdentityProviders",
    "responseCode":200
  },
  "input":{"shape":"ListIdentityProvidersRequest"},
  "output":{"shape":"ListIdentityProvidersResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerException"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "documentation":" Lists the Active Directory identity providers for user-based subscriptions. "
},
"ListInstances":{
  "name":"ListInstances",
  "http":{
    "method":"POST",
    "requestUri":"/instance/ListInstances",
    "responseCode":200
  },
  "input":{"shape":"ListInstancesRequest"},
  "output":{"shape":"ListInstancesResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
     {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerException"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "documentation":" Lists the EC2 instances providing user-based subscriptions. "
},
"ListLicenseServerEndpoints":{
  "name":"ListLicenseServerEndpoints",
  "http":{
    "method":"POST",
    "requestUri":"/license-server/ListLicenseServerEndpoints",
    "responseCode":200
  },

"input":{"shape":"ListLicenseServerEndpointsRequest"},
"output":{"shape":"ListLicenseServerEndpointsResponse"},
"errors":[
{"shape":"ServiceQuotaExceededException"},
{"shape":"ConflictException"},
{"shape":"ValidationException"},
{"shape":"ThrottlingException"},
{"shape":"InternalServerException"},
{"shape":"AccessDeniedException"}
],
"documentation":" List the Remote Desktop Services (RDS) License Server endpoints "
},
"ListProductSubscriptions":{
"name":"ListProductSubscriptions",
"http":{
"method":"POST",
"requestUri":"/user/ListProductSubscriptions",
"responseCode":200
},
"input":{"shape":"ListProductSubscriptionsRequest"},
"output":{"shape":"ListProductSubscriptionsResponse"},
"errors":[
{"shape":"ServiceQuotaExceededException"},
{"shape":"ConflictException"},
{"shape":"ValidationException"},
{"shape":"ThrottlingException"},
{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"},
{"shape":"AccessDeniedException"}
],
"documentation":" Lists the user-based subscription products available from an identity provider. "
},
"ListTagsForResource":{
"name":"ListTagsForResource",
"http":{
"method":"GET",
"requestUri":"/tags/{ResourceArn}",
"responseCode":200
},
"input":{"shape":"ListTagsForResourceRequest"},
"output":{"shape":"ListTagsForResourceResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"}
],
"documentation":" Returns the list of tags for the specified resource. "
},

"ListUserAssociations":{
"name":"ListUserAssociations",
"http":{
"method":"POST",
"requestUri":"/user/ListUserAssociations",
"responseCode":200
},
"input":{"shape":"ListUserAssociationsRequest"},
"output":{"shape":"ListUserAssociationsResponse"},
"errors":[
{"shape":"ServiceQuotaExceededException"},
{"shape":"ConflictException"},
{"shape":"ValidationException"},
{"shape":"ThrottlingException"},
{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"},
{"shape":"AccessDeniedException"}
],
"documentation":" Lists user associations for an identity provider. "
},
"RegisterIdentityProvider":{
"name":"RegisterIdentityProvider",
"http":{
"method":"POST",
"requestUri":"/identity-provider/RegisterIdentityProvider",
"responseCode":200
},
"input":{"shape":"RegisterIdentityProviderRequest"},
"output":{"shape":"RegisterIdentityProviderResponse"},
"errors":[
{"shape":"ServiceQuotaExceededException"},
{"shape":"ConflictException"},
{"shape":"ValidationException"},
{"shape":"ThrottlingException"},
{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"},
{"shape":"AccessDeniedException"}
],
"documentation":" Registers an identity provider for user-based subscriptions. ",
"idempotent":true
},
"StartProductSubscription":{
"name":"StartProductSubscription",
"http":{
"method":"POST",
"requestUri":"/user/StartProductSubscription",
"responseCode":200
},

"input":{"shape":"StartProductSubscriptionRequest"},
"output":{"shape":"StartProductSubscriptionResponse"},
"errors":[
{"shape":"ServiceQuotaExceededException"},
{"shape":"ConflictException"},
{"shape":"ValidationException"},
{"shape":"ThrottlingException"},
{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"},
{"shape":"AccessDeniedException"}
],
"documentation":" Starts a product subscription for a user with the specified identity provider. <note> Your estimated bill for charges on the number of users and related costs will take 48 hours to appear for billing periods that haven't closed (marked as Pending billing status) in Amazon Web Services Billing. For more information, see Viewing your monthly charges in the Amazon Web Services Billing User Guide. </note>"
},
"StopProductSubscription":{
"name":"StopProductSubscription",
"http":{
"method":"POST",
"requestUri":"/user/StopProductSubscription",
"responseCode":200
},
"input":{"shape":"StopProductSubscriptionRequest"},
"output":{"shape":"StopProductSubscriptionResponse"},
"errors":[
{"shape":"ServiceQuotaExceededException"},
{"shape":"ConflictException"},
{"shape":"ValidationException"},
{"shape":"ThrottlingException"},
{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"},
{"shape":"AccessDeniedException"}
],
"documentation":" Stops a product subscription for a user with the specified identity provider. "
},
"TagResource":{
"name":"TagResource",

"http":{
"method":"PUT",
"requestUri":"/tags/{ResourceArn}",
"responseCode":200
},
"input":{"shape":"TagResourceRequest"},
"output":{"shape":"TagResourceResponse"},
"errors":[

{"shape":"ValidationException"},
{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"}
],
"documentation":" Adds tags to a resource. ",
"idempotent":true
},
"UntagResource":{
"name":"UntagResource",
"http":{
"method":"DELETE",
"requestUri":"/tags/{ResourceArn}",
"responseCode":200
},
"input":{"shape":"UntagResourceRequest"},
"output":{"shape":"UntagResourceResponse"},
"errors":[
{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"}
],
"documentation":" Removes tags from a resource. ",
"idempotent":true
},
"UpdateIdentityProviderSettings":{
"name":"UpdateIdentityProviderSettings",
"http":{
"method":"POST",
"requestUri":"/identity-provider/UpdateIdentityProviderSettings",
"responseCode":200
},
"input":{"shape":"UpdateIdentityProviderSettingsRequest"},
"output":{"shape":"UpdateIdentityProviderSettingsResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"ThrottlingException"},
{"shape":"InternalServerException"},
{"shape":"AccessDeniedException"}
],
"documentation":" Updates additional product configuration settings for the registered identity provider. ",
"idempotent":true
}
},
"shapes":{
"AccessDeniedException":{
"type":"structure",
"members":{
"message":{"shape":"String"}

},
"documentation":" You don't have sufficient access to perform this action. ",
"exception":true
},
"ActiveDirectoryIdentityProvider":{
"type":"structure",
"members":{

"ActiveDirectorySettings":{
"shape":"ActiveDirectorySettings",
"documentation":" The <code>ActiveDirectorySettings</code> resource contains details about the Active Directory, including network access details such as domain name and IP addresses, and the credential provider for user administration. "
},
"ActiveDirectoryType":{
"shape":"ActiveDirectoryType",
"documentation":" The type of Active Directory either a self-managed Active Directory or an Amazon Web Services Managed Active Directory. "
},
"DirectoryId":{
"shape":"Directory",
"documentation":" The directory ID for an Active Directory identity provider. "
}
},
"documentation":" Details about an Active Directory identity provider. "
},
"ActiveDirectorySettings":{
"type":"structure",
"members":{
"DomainCredentialsProvider":{
"shape":"CredentialsProvider",

"documentation":" Points to the <code>CredentialsProvider</code> resource that contains information about the credential provider for user administration. "
},
"DomainIpv4List":{
"shape":"ActiveDirectorySettingsDomainIpv4ListList",
"documentation":" A list of domain IPv4 addresses that are used for the Active Directory. "
},
"DomainName":{
"shape":"String",
"documentation":" The domain name for the Active Directory. "
},
"DomainNetworkSettings":{
"shape":"DomainNetworkSettings",
"documentation":" The <code>DomainNetworkSettings</code> resource contains an array of subnets that apply for the Active Directory. "
}

},
"documentation":" Contains network access and credential details that are needed for user administration in the Active Directory. "
},
"ActiveDirectorySettingsDomainIpv4ListList":{
"type":"list",
"member":{"shape":"IpV4"},
"max":2,
"min":1
},
"ActiveDirectoryType":{
"type":"string",
"enum":[
"SELF_MANAGED",
"AWS_MANAGED"
]
},
"Arn":{
"type":"string",
"pattern":"^arn:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-zA-Z0-9-\\.]{1,510}/[a-zA-Z0-9-\\.]{1,510}$"
},
"AssociateUserRequest":{
"type":"structure",
"required":[
"IdentityProvider",
"InstanceId",
"Username"
],
"members":{
"Domain":{
"shape":"String",
"documentation":" The domain name of the Active Directory that contains information for the user to associate. "
},
"IdentityProvider":{
"shape":"IdentityProvider",
"documentation":" The identity provider for the user. "
},
"InstanceId":{
"shape":"String",
"documentation":" The ID of the EC2 instance that provides the user-based subscription. "
},
"Tags":{
"shape":"Tags",
"documentation":" The tags that apply for the user association. "
},

"Username":{
"shape":"String",
"documentation":" The user name from the identity provider. "
}
}
},
"AssociateUserResponse":{
"type":"structure",
"required":["InstanceUserSummary"],
"members":{
"InstanceUserSummary":{
"shape":"InstanceUserSummary",
"documentation":" Metadata that describes the associate user operation. "
}
}
},
"BoxInteger":{
"type":"integer",
"box":true
},
"ConflictException":{
"type":"structure",
"members":{
"message":{"shape":"String"}
},
"documentation":" The request couldn't be completed because it conflicted with the current state of the resource. ",
"exception":true,
"fault":true
},
"CreateLicenseServerEndpointRequest":{
"type":"structure",
"required":[
"IdentityProviderArn",
"LicenseServerSettings"
],
"members":{
"IdentityProviderArn":{
"shape":"Arn",
"documentation":" The Amazon Resource Name (ARN) that identifies the <code>IdentityProvider</code> resource that contains details about a registered identity provider. In the case of Active Directory, that can be a self-managed Active Directory or an Amazon Web Services Managed Active Directory that contains user identity details. "
},
"LicenseServerSettings":{
"shape":"LicenseServerSettings",
"documentation":" The <code>LicenseServerSettings</code> resource to create for the endpoint. The settings include the type of license server and the Secrets Manager secret that enables administrators to add or

remove users associated with the license server. "
},
"Tags":{
"shape":"Tags",
"documentation":" The tags that apply for the license server endpoint. "
}
}
},
"CreateLicenseServerEndpointResponse":{
"type":"structure",
"members":{
"IdentityProviderArn":{
"shape":"Arn",
"documentation":" The Amazon Resource Name (ARN) of the identity provider specified in the request. "
},
"LicenseServerEndpointArn":{
"shape":"Arn",
"documentation":" The ARN of the <code>LicenseServerEndpoint</code> resource. "
}
}
},
"CredentialsProvider":{
"type":"structure",
"members":{
"SecretsManagerCredentialsProvider":{
"shape":"SecretsManagerCredentialsProvider",
"documentation":" Identifies the Secrets Manager secret that contains credentials needed for user administration in the Active Directory. "
}
},
"documentation":" Contains information about the credential provider for user administration. ",
"union":true
},
"DeleteLicenseServerEndpointRequest":{
"type":"structure",
"required":[
"LicenseServerEndpointArn",
"ServerType"
],
"members":{
"LicenseServerEndpointArn":{
"shape":"Arn",
"documentation":" The Amazon Resource Name (ARN) that identifies the <code>LicenseServerEndpoint</code> resource to delete. "
},
"ServerType":{

"shape":"ServerType",
"documentation":" The type of License Server that the delete request refers to. "
}
}
},
"DeleteLicenseServerEndpointResponse":{
"type":"structure",
"members":{
"LicenseServerEndpoint":{
"shape":"LicenseServerEndpoint",
"documentation":" Shows details from the <code>LicenseServerEndpoint</code> resource that was deleted. "
}
}
},
"DeregisterIdentityProviderRequest":{
"type":"structure",
"members":{
"IdentityProvider":{
"shape":"IdentityProvider",
"documentation":" An object that specifies details for the Active Directory identity provider. "
},
"IdentityProviderArn":{
"shape":"Arn",
"documentation":" The Amazon Resource Name (ARN) that identifies the identity provider to deregister. "
},
"Product":{
"shape":"String",
"documentation":" The name of the user-based subscription product. Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> "
}
}
},
"DeregisterIdentityProviderResponse":{
"type":"structure",
"required":["IdentityProviderSummary"],
"members":{
"IdentityProviderSummary":{
"shape":"IdentityProviderSummary",
"documentation":" Metadata that describes the results of an identity provider operation. "
}
}
},
"Directory":{
"type":"string",
"pattern":"^(d|sd)-[0-9a-f]{10}$"

```
  },
  "DisassociateUserRequest":{
    "type":"structure",
    "members":{
      "Domain":{
        "shape":"String",
        "documentation":"<p>The domain name of the Active Directory that contains information for the user to
disassociate.</p>"
      },
      "IdentityProvider":{
        "shape":"IdentityProvider",
        "documentation":"<p>An object that specifies details for the Active Directory identity provider.</p>"
      },
      "InstanceId":{
        "shape":"String",
        "documentation":"<p>The ID of the EC2 instance which provides user-based subscriptions.</p>"
      },
      "InstanceUserArn":{
        "shape":"Arn",
        "documentation":"<p>The Amazon Resource Name (ARN) of the user to disassociate from the EC2
instance.</p>"
      },
      "Username":{
        "shape":"String",
        "documentation":"<p>The
 user name from the Active Directory identity provider for the user.</p>"
      }
    }
  },
  "DisassociateUserResponse":{
    "type":"structure",
    "required":["InstanceUserSummary"],
    "members":{
      "InstanceUserSummary":{
        "shape":"InstanceUserSummary",
        "documentation":"<p>Metadata that describes the associate user operation.</p>"
      }
    }
  },
  "DomainNetworkSettings":{
    "type":"structure",
    "required":["Subnets"],
    "members":{
      "Subnets":{
        "shape":"DomainNetworkSettingsSubnetsList",
        "documentation":"<p>Contains a list of subnets that apply for the Active Directory domain.</p>"
      }
    },
```

"documentation":" Contains network settings for the Active Directory domain. "
},
"DomainNetworkSettingsSubnetsList":{
"type":"list",
"member":{"shape":"Subnet"},
"min":1
},
"Filter":{
"type":"structure",
"members":{
"Attribute":{
"shape":"String",
"documentation":" The name of an attribute to use as a filter. "
},
"Operation":{
"shape":"String",
"documentation":" The type of search (For example, eq, geq, leq) "
},
"Value":{
"shape":"String",
"documentation":" Value of the filter. "
}
},
"documentation":" A filter name and value pair that is used to return more specific results from a describe or list operation. You can use filters can be used to match a set of resources by specific criteria, such as tags, attributes, or IDs. "
},
"FilterList":{
"type":"list",
"member":{"shape":"Filter"}
},
"IdentityProvider":{
"type":"structure",
"members":{
"ActiveDirectoryIdentityProvider":{
"shape":"ActiveDirectoryIdentityProvider",
"documentation":" The <code>ActiveDirectoryIdentityProvider</code> resource contains settings and other details about a specific Active Directory identity provider. "
}
},
"documentation":" Refers to an identity provider. ",
"union":true
},
"IdentityProviderSummary":{
"type":"structure",
"required":[
"IdentityProvider",
"Product",

"Settings",
"Status"
],
"members":{
"FailureMessage":{
"shape":"String",
"documentation":" The failure message associated with an identity provider. "
},
"IdentityProvider":{
"shape":"IdentityProvider",
"documentation":" The <code>IdentityProvider</code> resource contains information about an identity provider. "
},
"IdentityProviderArn":{
"shape":"Arn",
"documentation":" The Amazon Resource Name (ARN) of the identity provider. "
},
"Product":{
"shape":"String",
"documentation":" The name of the user-based subscription product. "
},
"Settings":{
"shape":"Settings",
"documentation":" The <code>Settings</code> resource contains details about the registered identity providers product related configuration settings, such as the subnets to provision VPC endpoints. "
},
"Status":{
"shape":"String",
"documentation":" The status of the identity provider. "
}
},
"documentation":" Describes an identity provider. "
},
"IdentityProviderSummaryList":{
"type":"list",
"member":{"shape":"IdentityProviderSummary"}
},
"InstanceSummary":{
"type":"structure",
"required":[
"InstanceId",
"Products",
"Status"
],
"members":{
"InstanceId":{
"shape":"String",

"documentation":" The ID of the EC2 instance, which provides user-based subscriptions. "
},
"LastStatusCheckDate":{

"shape":"String",
"documentation":" The date of the last status check. "
},
"Products":{
"shape":"StringList",
"documentation":" A list of provided user-based subscription products. "
},
"Status":{
"shape":"String",
"documentation":" The status of an EC2 instance resource. "
},
"StatusMessage":{
"shape":"String",
"documentation":" The status message for an EC2 instance. "
}
},
"documentation":" Describes an EC2 instance providing user-based subscriptions. "
},
"InstanceSummaryList":{
"type":"list",
"member":{"shape":"InstanceSummary"}
},
"InstanceUserSummary":{
"type":"structure",
"required":[
"IdentityProvider",
"InstanceId",
"Status",
"Username"
],
"members":{
"AssociationDate":{
"shape":"String",
"documentation":" The
date a user was associated with an EC2 instance. "
},
"DisassociationDate":{
"shape":"String",
"documentation":" The date a user was disassociated from an EC2 instance. "
},
"Domain":{
"shape":"String",
"documentation":" The domain name of the Active Directory that contains the user information for the
product subscription. "

```
      },
      "IdentityProvider":{
        "shape":"IdentityProvider",
        "documentation":"<p>The <code>IdentityProvider</code> resource specifies details about the identity
provider.</p>"
      },
      "InstanceId":{
        "shape":"String",
        "documentation":"<p>The ID of the EC2 instance that provides user-based subscriptions.</p>"
      },
      "InstanceUserArn":{
        "shape":"Arn",
        "documentation":"<p>The Amazon Resource Name (ARN) that identifies the instance user.</p>"
      },
      "Status":{
        "shape":"String",
         "documentation":"<p>The status of a user associated with an EC2 instance.</p>"
      },
      "StatusMessage":{
        "shape":"String",
        "documentation":"<p>The status message for users of an EC2 instance.</p>"
      },
      "Username":{
        "shape":"String",
        "documentation":"<p>The user name from the identity provider for the user.</p>"
      }
    },
    "documentation":"<p>Describes users of an EC2 instance providing user-based subscriptions.</p>"
  },
  "InstanceUserSummaryList":{
    "type":"list",
    "member":{"shape":"InstanceUserSummary"}
  },
  "InternalServerException":{
    "type":"structure",
    "members":{
      "message":{"shape":"String"}
    },
    "documentation":"<p>An exception occurred with the service.</p>",
    "error":{"httpStatusCode":500},
    "exception":true,
    "fault":true
  },
  "IpV4":{
    "type":"string",
    "pattern":"^(?:(25[0-5]|2[0-4][0-9]|1[0-9][0-9]|[1-9][0-9]|[0-9])(\\.(?!$)|$)){4}$"
   },
  "LicenseServer":{
```

"type":"structure",
"members":{
"HealthStatus":{
"shape":"LicenseServerHealthStatus",
"documentation":" The health status of the RDS license server. "
},
"Ipv4Address":{
"shape":"String",
"documentation":" A list of domain IPv4 addresses that are used for the RDS license server. "
},
"ProvisioningStatus":{
"shape":"LicenseServerEndpointProvisioningStatus",
"documentation":" The current state of the provisioning process for the RDS license server. "
}
},
"documentation":" Information about a Remote Desktop Services (RDS) license server. "
},
"LicenseServerEndpoint":{
"type":"structure",
"members":{
"CreationTime":{
"shape":"Timestamp",
"documentation":" The timestamp when License Manager created the license server
endpoint. "
},
"IdentityProviderArn":{
"shape":"String",
"documentation":" The Amazon Resource Name (ARN) of the identity provider that's associated with the
RDS license server endpoint. "
},
"LicenseServerEndpointArn":{
"shape":"Arn",
"documentation":" The ARN of the <code>ServerEndpoint</code> resource for the RDS license
server. "
},
"LicenseServerEndpointId":{
"shape":"LicenseServerEndpointId",
"documentation":" The ID of the license server endpoint. "
},
"LicenseServerEndpointProvisioningStatus":{
"shape":"LicenseServerEndpointProvisioningStatus",
"documentation":" The current state of the provisioning process for the RDS license server endpoint "
},
"LicenseServers":{
"shape":"LicenseServerList",
"documentation":" An array of <code>LicenseServer</code> resources that represent
the license servers that are accessed through this endpoint. "
},

"ServerEndpoint":{
"shape":"ServerEndpoint",
"documentation":" The <code>ServerEndpoint</code> resource contains the network address of the RDS license server endpoint. "
},
"ServerType":{
"shape":"ServerType",
"documentation":" The type of license server. "
},
"StatusMessage":{
"shape":"String",
"documentation":" The message associated with the provisioning status, if there is one. "
}
},
"documentation":" Contains details about a network endpoint for a Remote Desktop Services (RDS) license server. "
},
"LicenseServerEndpointId":{"type":"string"},
"LicenseServerEndpointList":{
"type":"list",
"member":{"shape":"LicenseServerEndpoint"}
},
"LicenseServerEndpointProvisioningStatus":{
"type":"string",
"enum":[
"PROVISIONING",
"PROVISIONING_FAILED",
"PROVISIONED",
"DELETING",
"DELETION_FAILED",
"DELETED"
]
},
"LicenseServerHealthStatus":{
"type":"string",
"enum":[
"HEALTHY",
"UNHEALTHY",
"NOT_APPLICABLE"
]
},
"LicenseServerList":{
"type":"list",
"member":{"shape":"LicenseServer"}
},
"LicenseServerSettings":{
"type":"structure",
"required":[

"ServerSettings",
"ServerType"
],
"members":{
"ServerSettings":{
"shape":"ServerSettings",
"documentation":" The <code>ServerSettings</code> resource contains the settings for your server. "
},
"ServerType":{
"shape":"ServerType",
"documentation":" The type of license server. "
}
},
"documentation":" The settings to configure your license server. "
},
"ListIdentityProvidersRequest":{
"type":"structure",
"members":{
"Filters":{
"shape":"FilterList",
"documentation":" You can use the following filters to streamline results: <ul> Product   DirectoryId "
},
"MaxResults":{
"shape":"BoxInteger",
"documentation":" The maximum number of results to return from a single request. "
},
"NextToken":{
"shape":"String",
"documentation":" A token to specify where to start paginating. This is the nextToken from a previously truncated response. "
}
}
},
"ListIdentityProvidersResponse":{
"type":"structure",
"required":["IdentityProviderSummaries"],
"members":{
"IdentityProviderSummaries":{
"shape":"IdentityProviderSummaryList",
"documentation":" An array of <code>IdentityProviderSummary</code> resources that contain details about the Active Directory identity providers that
meet the request criteria. "
},
"NextToken":{
"shape":"String",
"documentation":" The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve

additional objects. "
      }
    }
  },
  "ListInstancesRequest":{
    "type":"structure",
    "members":{
      "Filters":{
        "shape":"FilterList",
        "documentation":" You can use the following filters to streamline results: <ul> Status   InstanceId "
      },
      "MaxResults":{
        "shape":"BoxInteger",
        "documentation":" The maximum number of results to return from a single request. "
      },
      "NextToken":{
        "shape":"String",
        "documentation":" A token to specify where to start paginating. This is the nextToken from a previously truncated response. "
      }
    }
  },
  "ListInstancesResponse":{
    "type":"structure",
    "members":{
      "InstanceSummaries":{
        "shape":"InstanceSummaryList",
        "documentation":" An array of <code>InstanceSummary</code> resources that contain details about the instances that provide user-based subscriptions and also meet the request criteria. "
      },
      "NextToken":{
        "shape":"String",
        "documentation":" The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects. "
      }
    }
  },
  "ListLicenseServerEndpointsRequest":{
    "type":"structure",
    "members":{
      "Filters":{
        "shape":"FilterList",
        "documentation":" You can use the following filters to streamline results: <ul> IdentityProviderArn "
      },

"MaxResults":{
"shape":"ListLicenseServerEndpointsRequestMaxResultsInteger",
"documentation":" The maximum number of results to return from a single request. "
},
"NextToken":{
"shape":"String",
"documentation":" A token to specify where to start paginating. This is the nextToken from a previously truncated response. "
}
}
},
"ListLicenseServerEndpointsRequestMaxResultsInteger":{
"type":"integer",
"box":true,
"max":100,
"min":1
},
"ListLicenseServerEndpointsResponse":{
"type":"structure",
"members":{
"LicenseServerEndpoints":{
"shape":"LicenseServerEndpointList",
"documentation":" An array of <code>LicenseServerEndpoint</code> resources that contain detailed information about the RDS License Servers that meet the request criteria. "
},
"NextToken":{
"shape":"String",
"documentation":" The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects. "
}
}
},
"ListProductSubscriptionsRequest":{
"type":"structure",
"required":["IdentityProvider"],
"members":{
"Filters":{
"shape":"FilterList",
"documentation":" You can use the following filters to streamline results: <ul> Status   Username   Domain "
},
"IdentityProvider":{
"shape":"IdentityProvider",
"documentation":" An object that specifies details for the identity provider. "
},
"MaxResults":{
"shape":"BoxInteger",

"documentation":" The maximum number of results to return from a single request. "
},

"NextToken":{
"shape":"String",
"documentation":" A token to specify where to start paginating. This is the nextToken from a previously truncated response. "
},
"Product":{
"shape":"String",
"documentation":" The name of the user-based subscription product. Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> "
}
}
},
"ListProductSubscriptionsResponse":{
"type":"structure",
"members":{
"NextToken":{
"shape":"String",
"documentation":" The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects. "
},
"ProductUserSummaries":{
"shape":"ProductUserSummaryList",
"documentation":" Metadata that describes the list product subscriptions operation. "
}
}
},
"ListTagsForResourceRequest":{
"type":"structure",
"required":["ResourceArn"],
"members":{
"ResourceArn":{
"shape":"ResourceArn",
"documentation":" The Amazon Resource Name (ARN) of the resource whose tags you want to retrieve. ",
"location":"uri",
"locationName":"ResourceArn"
}
}
},
"ListTagsForResourceResponse":{
"type":"structure",
"members":{

"Tags":{
"shape":"Tags",
"documentation":" The tags for the specified resource. "
}
}
},
"ListUserAssociationsRequest":{
"type":"structure",
"required":[
"IdentityProvider",
"InstanceId"
],
"members":{
"Filters":{
"shape":"FilterList",
"documentation":" You can use the following filters to streamline results:
  Status   Username   Domain "
},
"IdentityProvider":{
"shape":"IdentityProvider",
"documentation":" An object that specifies details for the identity provider. "
},
"InstanceId":{
"shape":"String",
"documentation":" The ID of the EC2 instance, which provides user-based subscriptions. "
},
"MaxResults":{
"shape":"BoxInteger",
"documentation":" The maximum number of results to return from a single request. "
},
"NextToken":{
"shape":"String",
"documentation":" A token to specify where to start paginating. This is the nextToken from a previously
truncated response. "
}
}
},
"ListUserAssociationsResponse":{
"type":"structure",
"members":{
"InstanceUserSummaries":{
"shape":"InstanceUserSummaryList",
"documentation":" Metadata
that describes the list user association operation. "
},
"NextToken":{
"shape":"String",
"documentation":" The next token used for paginated responses. When this field isn't empty, there are

additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects. "
      }
    }
  },
  "ProductUserSummary":{
    "type":"structure",
    "required":[
      "IdentityProvider",
      "Product",
      "Status",
      "Username"
    ],
    "members":{
      "Domain":{
        "shape":"String",
        "documentation":" The domain name of the Active Directory that contains the user information for the product subscription. "
      },
      "IdentityProvider":{
        "shape":"IdentityProvider",
        "documentation":" An object that specifies details for the identity provider. "
      },
      "Product":{

    "shape":"String",
        "documentation":" The name of the user-based subscription product. "
      },
      "ProductUserArn":{
        "shape":"Arn",
        "documentation":" The Amazon Resource Name (ARN) for this product user. "
      },
      "Status":{
        "shape":"String",
        "documentation":" The status of a product for this user. "
      },
      "StatusMessage":{
        "shape":"String",
        "documentation":" The status message for a product for this user. "
      },
      "SubscriptionEndDate":{
        "shape":"String",
        "documentation":" The end date of a subscription. "
      },
      "SubscriptionStartDate":{
        "shape":"String",
        "documentation":" The start date of a subscription. "
      },

"Username":{
"shape":"String",
"documentation":" The user name from the identity provider for this product user. "
}
},

"documentation":" A summary of the user-based subscription products for a specific user. "
},
"ProductUserSummaryList":{
"type":"list",
"member":{"shape":"ProductUserSummary"}
},
"RdsSalSettings":{
"type":"structure",
"required":["RdsSalCredentialsProvider"],
"members":{
"RdsSalCredentialsProvider":{
"shape":"CredentialsProvider",
"documentation":" The <code>CredentialsProvider</code> resource contains a reference to the credentials provider that's used for RDS license server user administration. "
}
},
"documentation":" Server settings that are specific to a Remote Desktop Services (RDS) license server. "
},
"RegisterIdentityProviderRequest":{
"type":"structure",
"required":[
"IdentityProvider",
"Product"
],
"members":{
"IdentityProvider":{
"shape":"IdentityProvider",
"documentation":" An object that specifies details for the identity provider to register. "
},
"Product":{
"shape":"String",
"documentation":" The name of the user-based subscription product. Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> "
},
"Settings":{
"shape":"Settings",
"documentation":" The registered identity providers product related configuration settings such as the subnets to provision VPC endpoints. "
},
"Tags":{

"shape":"Tags",
"documentation":" The tags that apply to the identity provider's registration. "
}
}
},
"RegisterIdentityProviderResponse":{
"type":"structure",
"required":["IdentityProviderSummary"],
"members":{
"IdentityProviderSummary":{
"shape":"IdentityProviderSummary",
"documentation":" Metadata that describes
the results of an identity provider operation. "
}
}
},
"ResourceArn":{
"type":"string",
"pattern":"^arn:([a-z0-9-\\.]{1,63}):([a-z0-9-\\.]{1,63}):([a-z0-9-\\.]{1,63}):([a-z0-9-\\.]{1,63}):([a-z0-9-\\.]{1,510})/([a-z0-9-\\.]{1,510})$"
},
"ResourceNotFoundException":{
"type":"structure",
"members":{
"message":{"shape":"String"}
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"documentation":" The resource couldn't be found. ",
"error":{
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"senderFault":true
},
"exception":true
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"SecretsManagerCredentialsProvider":{
"type":"structure",
"members":{
"SecretId":{
"shape":"SecretsManagerCredentialsProviderSecretIdString",
"documentation":" The ID of the Secrets Manager secret that contains credentials. "
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},
"documentation":" Contains a credentials secret that's stored in Secrets Manager. "
},
"SecretsManagerCredentialsProviderSecretIdString":{
"type":"string",
"min":1
},
"SecurityGroup":{

"type":"string",
"max":200,
"min":5,
"pattern":"^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
},
"ServerEndpoint":{
"type":"structure",
"members":{
"Endpoint":{
"shape":"String",
"documentation":" The network address of the endpoint. "
}
},
"documentation":" A network endpoint through which you can access one or more servers. "
},
"ServerSettings":{
"type":"structure",
"members":{
"RdsSalSettings":{
"shape":"RdsSalSettings",
"documentation":" The <code>RdsSalSettings</code> resource contains settings to configure a specific Remote Desktop Services (RDS) license server. "
}
},
"documentation":" Contains settings for a specific server. ",
"union":true
},
"ServerType":{
"type":"string",
"enum":["RDS_SAL"]
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"ServiceQuotaExceededException":{
"type":"structure",
"members":{
"message":{"shape":"String"}
},
"documentation":" The request failed because a service quota is exceeded. ",
"exception":true
},
"Settings":{
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"required":[
"SecurityGroupId",
"Subnets"
],
"members":{
"SecurityGroupId":{
"shape":"SecurityGroup",

"documentation":" A security group ID that allows inbound TCP port 1688 communication between resources in your VPC and the VPC endpoint for activation servers. "
},
"Subnets":{
"shape":"SettingsSubnetsList",
"documentation":" The subnets defined for the registered identity provider. "
}
},
"documentation":" The registered identity providers product related configuration settings such as the subnets to provision VPC endpoints, and the security group ID that
is associated with the VPC endpoints. The security group should permit inbound TCP port 1688 communication from resources in the VPC. "
},
"SettingsSubnetsList":{
"type":"list",
"member":{"shape":"Subnet"},
"min":1
},
"StartProductSubscriptionRequest":{
"type":"structure",
"required":[
"IdentityProvider",
"Product",
"Username"
],
"members":{
"Domain":{
"shape":"String",
"documentation":" The domain name of the Active Directory that contains the user for whom to start the product subscription. "
},
"IdentityProvider":{
"shape":"IdentityProvider",
"documentation":" An object that specifies details for the identity provider. "
},
"Product":{
"shape":"String",
"documentation":" The name of the user-based subscription product. Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> "
},
"Tags":{
"shape":"Tags",
"documentation":" The tags that apply to the product subscription. "
},
"Username":{
"shape":"String",
"documentation":" The user name from the identity provider of the user. "

```
      }
    }
  },
  "StartProductSubscriptionResponse":{
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    "required":["ProductUserSummary"],
    "members":{
      "ProductUserSummary":{
        "shape":"ProductUserSummary",
        "documentation":"<p>Metadata that describes the start product subscription operation.</p>"
      }
    }
  },
  "StopProductSubscriptionRequest":{
    "type":"structure",
    "members":{
      "Domain":{
        "shape":"String",
        "documentation":"<p>The domain name of the Active Directory that contains the user for whom to stop the
product subscription.</p>"
      },

      "IdentityProvider":{
        "shape":"IdentityProvider",
        "documentation":"<p>An object that specifies details for the identity provider.</p>"
      },
      "Product":{
        "shape":"String",
        "documentation":"<p>The name of the user-based subscription product.</p> <p>Valid values:
<code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> |
<code>OFFICE_PROFESSIONAL_PLUS</code> </p>"
      },
      "ProductUserArn":{
        "shape":"Arn",
        "documentation":"<p>The Amazon Resource Name (ARN) of the product user.</p>"
      },
      "Username":{
        "shape":"String",
        "documentation":"<p>The user name from the identity provider for the user.</p>"
      }
    }
  },
  "StopProductSubscriptionResponse":{
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"documentation":" Metadata
that describes the start product subscription operation. "
}
}
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"member":{"shape":"Subnet"}
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"ResourceArn",
"Tags"
],
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"shape":"ResourceArn",
"documentation":" The Amazon Resource Name (ARN) of the resource that you want to tag. ",
"location":"uri",
"locationName":"ResourceArn"
},
"Tags":{
"shape":"Tags",
"documentation":" The tags to apply to the specified resource. "
}
}
},
"TagResourceResponse":{
"type":"structure",
"members":{
}

```
  },
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    "max":50,
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    "type":"structure",
    "members":{
      "message":{"shape":"String"}
    },
    "documentation":"<p>The request was denied because of request throttling. Retry the request.</p>",
    "exception":true
  },
  "Timestamp":{"type":"timestamp"},
  "UntagResourceRequest":{
    "type":"structure",
    "required":[
      "ResourceArn",
      "TagKeys"
    ],
    "members":{
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        "shape":"ResourceArn",
        "documentation":"<p>The Amazon Resource Name (ARN) of the resource that you want to remove tags
from.</p>",
        "location":"uri",
        "locationName":"ResourceArn"
      },
      "TagKeys":{
        "shape":"TagKeyList",
         "documentation":"<p>The tag keys to remove from the resource.</p>",
        "location":"querystring",
        "locationName":"tagKeys"
      }
    }
  },
  "UntagResourceResponse":{
    "type":"structure",
    "members":{
    }
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  "UpdateIdentityProviderSettingsRequest":{
    "type":"structure",
    "required":["UpdateSettings"],
```

"members":{
"IdentityProvider":{"shape":"IdentityProvider"},
"IdentityProviderArn":{
"shape":"Arn",
"documentation":" The Amazon Resource Name (ARN) of the identity provider to update. "
},
"Product":{
"shape":"String",
"documentation":" The name of the user-based subscription product. Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> "
},
"UpdateSettings":{
"shape":"UpdateSettings",
"documentation":" Updates the registered identity providers product related configuration settings. You can update any combination of settings in a single operation such as the: <ul> Subnets which you want to add to provision VPC endpoints.   Subnets which you want to remove the VPC endpoints from.   Security group ID which permits traffic to the VPC endpoints. "
}
}
},
"UpdateIdentityProviderSettingsResponse":{
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"required":["IdentityProviderSummary"],
"members":{
"IdentityProviderSummary":{"shape":"IdentityProviderSummary"}
}
},
"UpdateSettings":{
"type":"structure",
"required":[
"AddSubnets",
"RemoveSubnets"
],
"members":{
"AddSubnets":{
"shape":"Subnets",
"documentation":" The ID of one or more subnets in which License Manager will create a VPC endpoint for products that require connectivity to activation servers. "
},
"RemoveSubnets":{
"shape":"Subnets",
"documentation":" The ID of one or more subnets to remove. "
},
"SecurityGroupId":{
"shape":"SecurityGroup",

"documentation":" A security group ID that allows inbound TCP port 1688 communication between resources in your VPC and the VPC endpoints for activation servers. "
}
},
"documentation":" Updates the registered identity providers product related configuration settings such as the subnets to provision VPC endpoints. "
},
"ValidationException":{
"type":"structure",
"members":{
"message":{"shape":"String"}
},
"documentation":" A parameter is not valid. ",
"exception":true
}
},
"documentation":" With License Manager, you can create user-based subscriptions to utilize licensed software with a per user subscription fee on Amazon EC2 instances. "
}

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      "builtIn": "AWS::UseDualStack",
```

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```

```
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"ref": "PartitionResult"
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"supportsFIPS"
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}
]
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                                            {
                                                "ref": "PartitionResult"
                                            },
                                            "supportsDualStack"
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                                },
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                            }
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```

```
                    },
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                }
              ]
            }
          ]
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          "error": "Invalid Configuration: Missing Region",
          "type": "error"
        }
      ]
    }
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      "ResponseMetadata": {
        "RequestId": "6a213e4e-33a8-11df-9540-99d0768312d3"
      }
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          "required": false,
          "documentation": "The AWS region used to dispatch the request.",
          "type": "String"
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        "UseDualStack": {
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          "default": false,
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```

stack, dispatching the request MAY return an error.",
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},
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"type": "Boolean"
},
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}
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],
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{
"fn": "booleanEquals",
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},
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]
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{

```
            "conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  {
                    "ref": "UseDualStack"
                  },
                  true
                ]
              }
            ],
            "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
            "type": "error"
          },
          {
            "conditions": [],
            "endpoint": {
              "url": {
                "ref": "Endpoint"
              },
              "properties": {},
              "headers": {}
            },
            "type": "endpoint"
          }
        ],
        "type": "tree"
      },
      {
        "conditions": [
          {
            "fn": "isSet",
            "argv": [
              {
                "ref": "Region"
              }
            ]
          }
        ],
        "rules": [
          {
            "conditions": [
              {
                "fn": "aws.partition",
                "argv": [
                  {
                    "ref": "Region"
                  }
```

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        ],
        "assign": "PartitionResult"
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                "argv": [
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                        "ref": "UseFIPS"
                    },
                    true
                ]
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            {
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                        "ref": "UseDualStack"
                    },
                    true
                ]
            }
        ],
        "rules": [
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                        "argv": [

                    true,
                            {
                                "fn": "getAttr",
                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },
                                    "supportsFIPS"
                                ]
                            }
                        ]
                    },
                    {
                        "fn": "booleanEquals",
                        "argv": [
```

```
                    true,
                    {

        "fn": "getAttr",
                        "argv": [
                            {
                                "ref": "PartitionResult"
                            },
                            "supportsDualStack"
                        ]
                    }
                ]
            }
        ],
        "rules": [
            {
                "conditions": [],
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",

    "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
            }
        ],
        "type": "tree"
    },
    {
        "conditions": [],
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        "type": "error"
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  ],
  "type": "tree"
},
{
  "conditions": [
    {
      "fn": "booleanEquals",
      "argv": [

  {
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            },
            true
        ]
```

```
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                                        "argv": [
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                                            },
                                            "supportsFIPS"
                                        ]
                                    },
                                    true
                                ]
                            }
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fips.{Region}.{PartitionResult#dnsSuffix}",
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                                },
                                "type": "endpoint"
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                        ],

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                        "type": "error"
                    }
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                "type": "tree"
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                    {
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                    "ref": "UseDualStack"
                  },
                  true
                ]
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            ],
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                      {
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                            "ref": "PartitionResult"
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                        ]
                      }
                    ]
                  }
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subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
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                      "headers": {}
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                    "type": "endpoint"
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              {
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                "type": "error"
```

```
                }
                ],
                "type": "tree"
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                    "headers": {}
                },
                "type": "endpoint"
            }
        ],
        "type": "tree"
    }
],
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},
{
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    "error": "Invalid Configuration: Missing Region",
    "type": "error"
}
]
}
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  "testCases": [
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      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": true
      }
    },
    {
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"Region": "us-east-1",
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{
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"url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
}
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"params": {
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"UseDualStack": true
}
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{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",

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      "UseDualStack": true
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  {
    "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
    "expect": {
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      "Region": "cn-north-1",
      "UseFIPS": false,
      "UseDualStack": false
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  {
    "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
    "expect": {
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      }
    },
    "params": {
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      "UseFIPS": true,
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    }
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  {
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    },
    "params": {
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      "UseDualStack": false
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    "expect": {
      "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
    },
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      "Region": "us-iso-east-1",
```

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        "UseDualStack": true
    }
},
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    "expect": {
        "endpoint": {
            "url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
        }
    },
    "params": {
        "Region": "us-iso-east-1",
        "UseFIPS": true,
        "UseDualStack": false
    }
},
{
    "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
        "error": "DualStack is enabled but this partition does not support DualStack"
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    "params": {
        "Region": "us-iso-east-1",
        "UseFIPS": false,
        "UseDualStack": true
    }
},
{
    "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
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        }
    },
    "params": {
        "Region": "us-iso-east-1",
        "UseFIPS": false,
        "UseDualStack": false
    }
},
{
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    "expect": {
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    },
    "params": {
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"UseDualStack": true
}
},
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}
},
"params": {
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"UseDualStack": false
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"UseDualStack": true
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},
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"expect": {
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}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{

"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}

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      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": false,
        "Endpoint": "https://example.com"
      }
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      "expect": {
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        }
      },
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        "UseDualStack": false,
        "Endpoint": "https://example.com"
      }
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        "Endpoint": "https://example.com"
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        "UseFIPS": false,
        "UseDualStack": true,
        "Endpoint": "https://example.com"
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    },
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      "documentation": "Missing region",
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"expect": {
"error": "Invalid Configuration: Missing Region"
}
}
],
"version": "1.0"
}

1.6174 spdystream 0.5.0

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1.6175 json-path 0.0.0-20210407135951-1de76d718b3f

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1.6176 httpcache 0.0.0-20190611155906-901d90724c79

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1.6177 @babel/core/node_modules/semver 6.3.1

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1.6178 gyp-next 0.18.1

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1.6179 nodelib-fs-stat 2.0.5

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1.6180 nodelib-fs-walk 1.2.8

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1.6181 fast-glob/node_modules/glob-parent 5.1.2

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1.6182 nodelib-fs-scandir 2.1.5

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1.6183 @babel/helper-compilation-targets/node_modules/semver 6.3.1

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1.6184 prometheus-metrics-exporter-httpserver 1.3.1

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Manifest-Version: 1.0
Automatic-Module-Name: io.prometheus.metrics.exporter.httpserver
Bnd-LastModified: 1716462423060
Build-Jdk: 21.0.3
Built-By: fabian
Bundle-Description: HTTP Server providing a Prometheus scrape endpoint.
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Prometheus Metrics Exporter - HTTP Server
Bundle-SymbolicName: io.prometheus.metrics-exporter-httpserver
Bundle-Version: 1.3.1
Created-By: Apache Maven Bundle Plugin
Export-Package: io.prometheus.metrics.exporter.httpserver;uses:="com.sun
.net.httpserver,io.prometheus.metrics.config,io.prometheus.metrics.expo
rter.common,io.prometheus.metrics.model.registry";version="1.3.1"
Import-Package: com.sun.net.httpserver,io.prometheus.metrics.config;vers
ion="[1.3,2)",io.prometheus.metrics.exporter.common;version="[1.3,2)",i
o.prometheus.metrics.model.registry;version="[1.3,2)"
Tool: Bnd-2.1.0.20130426-122213

Found
 in path(s):
* /opt/cola/permits/2309102451_1736201824.234086/0/prometheus-metrics-exporter-httpserver-1-3-1-1-jar/META-INF/MANIFEST.MF
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* /opt/cola/permits/2309102451_1736201824.234086/0/prometheus-metrics-exporter-httpserver-1-3-1-1-jar/META-INF/maven/io.prometheus/prometheus-metrics-exporter-httpserver/pom.xml

1.6185 prometheus-metrics-config 1.3.1

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Manifest-Version: 1.0

Automatic-Module-Name: io.prometheus.metrics.config
Bnd-LastModified: 1716462295130
Build-Jdk: 21.0.3
Built-By: fabian
Bundle-Description: Configuration for Prometheus metrics and exposition
formats.
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Prometheus Metrics Config
Bundle-SymbolicName: io.prometheus.metrics-config
Bundle-Version: 1.3.1
Created-By: Apache Maven Bundle Plugin
Export-Package: io.prometheus.metrics.config;version="1.3.1"
Tool: Bnd-2.1.0.20130426-122213

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* /opt/cola/permits/2309102253_1736201801.9212263/0/prometheus-metrics-config-1-3-1-1-jar/META-INF/MANIFEST.MF
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1.6186 jmx_prometheus_common 1.0.1

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Found in path(s):
* /opt/cola/permits/2309102428_1736201813.0725236/0/jmx-prometheus-common-1-0-1-sources-1-jar/io/prometheus/jmx/common/configuration/ConvertToInteger.java
* /opt/cola/permits/2309102428_1736201813.0725236/0/jmx-prometheus-common-1-0-1-sources-1-jar/io/prometheus/jmx/common/configuration/ConvertToString.java
* /opt/cola/permits/2309102428_1736201813.0725236/0/jmx-prometheus-common-1-0-1-sources-1-jar/io/prometheus/jmx/common/configuration/ValidateStringIsNotBlank.java
* /opt/cola/permits/2309102428_1736201813.0725236/0/jmx-prometheus-common-1-0-1-sources-1-jar/io/prometheus/jmx/common/configuration/ValidateIntegerInRange.java
* /opt/cola/permits/2309102428_1736201813.0725236/0/jmx-prometheus-common-1-0-1-sources-1-jar/io/prometheus/jmx/common/configuration/ConvertToMapAccessor.java
* /opt/cola/permits/2309102428_1736201813.0725236/0/jmx-prometheus-common-1-0-1-sources-1-jar/io/prometheus/jmx/common/http/ssl/SSLContextFactory.java
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* /opt/cola/permits/2309102428_1736201813.0725236/0/jmx-prometheus-common-1-0-1-sources-1-jar/io/prometheus/jmx/common/http/authenticator/CredentialsCache.java
* /opt/cola/permits/2309102428_1736201813.0725236/0/jmx-prometheus-common-1-0-1-sources-1-jar/io/prometheus/jmx/common/http/authenticator/MessageDigestAuthenticator.java
* /opt/cola/permits/2309102428_1736201813.0725236/0/jmx-prometheus-common-1-0-1-sources-1-jar/io/prometheus/jmx/common/http/authenticator/PBKDF2Authenticator.java
* /opt/cola/permits/2309102428_1736201813.0725236/0/jmx-prometheus-common-1-0-1-sources-1-

jar/io/prometheus/jmx/common/yaml/YamlMapAccessor.java
* /opt/cola/permits/2309102428_1736201813.0725236/0/jmx-prometheus-common-1-0-1-sources-1-jar/io/prometheus/jmx/common/http/authenticator/Credentials.java
* /opt/cola/permits/2309102428_1736201813.0725236/0/jmx-prometheus-common-1-0-1-sources-1-jar/io/prometheus/jmx/common/util/Precondition.java
* /opt/cola/permits/2309102428_1736201813.0725236/0/jmx-prometheus-common-1-0-1-sources-1-jar/io/prometheus/jmx/common/http/authenticator/HexString.java
* /opt/cola/permits/2309102428_1736201813.0725236/0/jmx-prometheus-common-1-0-1-sources-1-jar/io/prometheus/jmx/common/http/HTTPServerFactory.java
* /opt/cola/permits/2309102428_1736201813.0725236/0/jmx-prometheus-common-1-0-1-sources-1-jar/io/prometheus/jmx/common/http/ConfigurationException.java
*
/opt/cola/permits/2309102428_1736201813.0725236/0/jmx-prometheus-common-1-0-1-sources-1-jar/io/prometheus/jmx/common/http/authenticator/PlaintextAuthenticator.java

1.6187 otel-metric 1.32.0

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1.6188 prometheus-metrics-tracer-otel-agent 1.3.1

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Manifest-Version: 1.0
Automatic-Module-Name: io.prometheus.metrics.tracer.otel_agent

Bnd-LastModified: 1716462322383
Build-Jdk: 21.0.3
Built-By: fabian
Bundle-Description: Prometheus integration with the OpenTelemetry Java a
gent for distributed tracing.
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Prometheus Metrics Tracer OpenTelemetry Agent
Bundle-SymbolicName: io.prometheus.metrics-tracer-otel-agent
Bundle-Version: 1.3.1
Created-By: Apache Maven Bundle Plugin
Export-Package: io.prometheus.metrics.tracer.otel_agent;uses:="io.promet
heus.metrics.tracer.common";version="1.3.1"
Import-Package: io.opentelemetry.api.trace;resolution:=optional,io.prome
theus.metrics.tracer.common;version="[1.3,2)"
Tool: Bnd-2.1.0.20130426-122213

Found in path(s):
* /opt/cola/permits/2309102337_1736201830.446153/0/prometheus-metrics-tracer-otel-agent-1-3-1-jar/META-INF/MANIFEST.MF
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Found in path(s):
* /opt/cola/permits/2309102337_1736201830.446153/0/prometheus-metrics-tracer-otel-agent-1-3-1-jar/META-INF/maven/io.prometheus/prometheus-metrics-tracer-otel-agent/pom.xml

1.6189 prometheus-metrics-tracer-common 1.3.1

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Manifest-Version: 1.0
Automatic-Module-Name: io.prometheus.metrics.tracer.common
Bnd-LastModified: 1716462307050
Build-Jdk: 21.0.3
Built-By: fabian
Bundle-Description: Common Module for Prometheus integrations with distr
ibuted tracing libraries.
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Prometheus Metrics Tracer Common
Bundle-SymbolicName: io.prometheus.metrics-tracer-common
Bundle-Version: 1.3.1

Created-By: Apache Maven Bundle Plugin
Export-Package: io.prometheus.metrics.tracer.common;version="1.3.1"
Tool: Bnd-2.1.0.20130426-122213

Found in path(s):
* /opt/cola/permits/2309102275_1736201815.191805/0/prometheus-metrics-tracer-common-1-3-1-jar/META-INF/MANIFEST.MF
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* /opt/cola/permits/2309102275_1736201815.191805/0/prometheus-metrics-tracer-common-1-3-1-jar/META-INF/maven/io.prometheus/prometheus-metrics-tracer-common/pom.xml

1.6190 plexus-utils 3.5.1

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1.6191 prometheus-metrics-tracer-otel 1.3.1

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Found in path(s):
* /opt/cola/permits/2309102421_1736201851.717597/0/prometheus-metrics-tracer-otel-1-3-1-1-jar/META-INF/maven/io.prometheus/prometheus-metrics-tracer-otel/pom.xml
No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Automatic-Module-Name: io.prometheus.metrics.tracer.otel
Bnd-LastModified: 1716462314764
Build-Jdk: 21.0.3
Built-By: fabian
Bundle-Description: Prometheus integration with the OpenTelemetry distri
buted tracing library.
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Prometheus Metrics Tracer OpenTelemetry
Bundle-SymbolicName: io.prometheus.metrics-tracer-otel
Bundle-Version: 1.3.1
Created-By: Apache Maven Bundle Plugin
Export-Package: io.prometheus.metrics.tracer.otel;uses:="io.prometheus.m
etrics.tracer.common";version="1.3.1"
Import-Package: io.opentelemetry.api.trace;resolution:=optional,io.prome

theus.metrics.tracer.common;version="[1.3,2)"
Tool: Bnd-2.1.0.20130426-122213

Found in path(s):
* /opt/cola/permits/2309102421_1736201851.717597/0/prometheus-metrics-tracer-otel-1-3-1-1-jar/META-INF/MANIFEST.MF

1.6192 prometheus-metrics-exposition-formats 1.3.1

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Found in path(s):
* /opt/cola/permits/2309102173_1736201837.130286/0/prometheus-metrics-exposition-formats-1-3-1-jar/META-INF/maven/io.prometheus/prometheus-metrics-exposition-formats/pom.xml
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Manifest-Version: 1.0
Automatic-Module-Name: io.prometheus.metrics.expositionformats
Bnd-LastModified: 1716462360520
Build-Jdk: 21.0.3
Built-By: fabian
Bundle-Description: Prometheus exposition formats.
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Prometheus Metrics Exposition Formats
Bundle-SymbolicName: io.prometheus.metrics-exposition-formats
Bundle-Version: 1.3.1
Created-By: Apache Maven Bundle Plugin
Export-Package: io.prometheus.metrics.expositionformats;uses:="io.promet
heus.metrics.config,io.prometheus.metrics.expositionformats.generated.c
om_google_protobuf_3_25_3,io.prometheus.metrics.model.snapshots";versio
n="1.3.1",io.prometheus.metrics.expositionformats.generated.com_google_
protobuf_3_25_3;uses:="io.prometheus.metrics.shaded.com_google_protobuf
_3_25_3";version="1.3.1"
Import-Package: io.prometheus.metrics.config;version="[1.3,2)",io.promet
 heus.metrics.model.snapshots;version="[1.3,2)",io.prometheus.metrics.sh
aded.com_google_protobuf_3_25_3
Tool: Bnd-2.1.0.20130426-122213

Found in path(s):
* /opt/cola/permits/2309102173_1736201837.130286/0/prometheus-metrics-exposition-formats-1-3-1-jar/META-INF/MANIFEST.MF

1.6193 prometheus-metrics-instrumentation-jvm 1.3.1

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* /opt/cola/permits/2309102328_1736201808.2212307/0/prometheus-metrics-instrumentation-jvm-1-3-1-1-jar/META-INF/maven/io.prometheus/prometheus-metrics-instrumentation-jvm/pom.xml
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Manifest-Version: 1.0
Automatic-Module-Name: io.prometheus.metrics.instrumentation.jvm
Bnd-LastModified: 1716462476955
Build-Jdk: 21.0.3
Built-By: fabian
Bundle-Description: Instrumentation library for JVM metrics
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Prometheus Metrics Instrumentation - JVM
Bundle-SymbolicName: io.prometheus.metrics-instrumentation-jvm
Bundle-Version: 1.3.1
Created-By: Apache Maven Bundle Plugin
Export-Package: io.prometheus.metrics.instrumentation.jvm;uses:="io.prom
etheus.metrics.config,io.prometheus.metrics.model.registry";version="1.
3.1"
Import-Package: com.sun.management,io.prometheus.metrics.config;version=
"[1.3,2)",io.prometheus.metrics.core.datapoints;version="[1.3,2)",io.pr
ometheus.metrics.core.metrics;version="[1.3,2)",io.prometheus.metrics.m
odel.registry;version="[1.3,2)",io.prometheus.metrics.model.snapshots;v
ersion="[1.3,2)",javax.management,javax.management.openmbean
Tool:
 Bnd-2.1.0.20130426-122213

Found in path(s):
* /opt/cola/permits/2309102328_1736201808.2212307/0/prometheus-metrics-instrumentation-jvm-1-3-1-1-jar/META-INF/MANIFEST.MF

1.6194 simpleclient-servlet 0.16.0

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Found in path(s):
* /opt/cola/permits/2309102445_1736201828.132967/0/simpleclient-servlet-0-16-0-sources-3-jar/META-INF/maven/io.prometheus/simpleclient_servlet/pom.xml

1.6195 prometheus-metrics-exporter-common 1.3.1

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Manifest-Version: 1.0
Automatic-Module-Name: io.prometheus.metrics.exporter.common
Bnd-LastModified: 1716462398776
Build-Jdk: 21.0.3
Built-By: fabian
Bundle-Description: Common functionality for implementing a Prometheus s
crape endpoint.
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Prometheus Metrics Exporter - Common
Bundle-SymbolicName: io.prometheus.metrics-exporter-common
Bundle-Version: 1.3.1
Created-By: Apache Maven Bundle Plugin
Export-Package: io.prometheus.metrics.exporter.common;uses:="io.promethe
us.metrics.config,io.prometheus.metrics.model.registry";version="1.3.1"
Import-Package: io.prometheus.metrics.config;version="[1.3,2)",io.promet
heus.metrics.expositionformats;version="[1.3,2)",io.prometheus.metrics.
model.registry;version="[1.3,2)",io.prometheus.metrics.model.snapshots;
version="[1.3,2)"
Tool: Bnd-2.1.0.20130426-122213

Found in path(s):
*
/opt/cola/permits/2309102206_1736201841.1564941/0/prometheus-metrics-exporter-common-1-3-1-1-jar/META-INF/MANIFEST.MF
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1.6196 otel 1.32.0

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1.6197 collector 1.0.1

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1.6198 prometheus-metrics-core 1.3.1

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Automatic-Module-Name: io.prometheus.metrics.core
Bnd-LastModified: 1716462389662
Build-Jdk: 21.0.3
Built-By: fabian
Bundle-Description: Core Prometheus metric types
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Prometheus Metrics Core
Bundle-SymbolicName: io.prometheus.metrics-core
Bundle-Version: 1.3.1
Created-By: Apache Maven Bundle Plugin
Export-Package: io.prometheus.metrics.core.metrics;uses:="io.prometheus.
metrics.config,io.prometheus.metrics.core.datapoints,io.prometheus.metr
ics.model.registry,io.prometheus.metrics.model.snapshots";version="1.3.
1",io.prometheus.metrics.core.datapoints;uses:="io.prometheus.metrics.m
odel.snapshots";version="1.3.1",io.prometheus.metrics.core.util;version
="1.3.1",io.prometheus.metrics.core.exemplars;uses:="io.prometheus.metr
ics.config,io.prometheus.metrics.model.snapshots,io.prometheus.metrics.
tracer.common";version="1.3.1"
Import-Package: io.prometheus.metrics.config;version="[1.3,2)",io.promet
heus.metrics.model.registry;version="[1.3,2)",io.prometheus.metrics.mod
el.snapshots;version="[1.3,2)",io.prometheus.metrics.tracer.common;vers
ion="[1.3,2)",io.prometheus.metrics.tracer.initializer;version="[1.3,2)
"
Tool: Bnd-2.1.0.20130426-122213

Found in path(s):
* /opt/cola/permits/2309102348_1736201857.4701858/0/prometheus-metrics-core-1-3-1-1-jar/META-INF/MANIFEST.MF
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* /opt/cola/permits/2309102348_1736201857.4701858/0/prometheus-metrics-core-1-3-1-1-jar/META-INF/maven/io.prometheus/prometheus-metrics-core/pom.xml

1.6199 prometheus-metrics-shaded-protobuf 1.3.1

1.6199.1 Available under license :

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1.6200 prometheus-metrics-tracer-initializer 1.3.1

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Manifest-Version: 1.0
Automatic-Module-Name: io.prometheus.metrics.tracer.initializer
Bnd-LastModified: 1716462330002
Build-Jdk: 21.0.3
Built-By: fabian
Bundle-Description: Initialize Prometheus integrations with distributed
tracing libraries.
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Prometheus Metrics Tracer Initializer
Bundle-SymbolicName: io.prometheus.metrics-tracer-initializer
Bundle-Version: 1.3.1
Created-By: Apache Maven Bundle Plugin
Export-Package: io.prometheus.metrics.tracer.initializer;uses:="io.prome
theus.metrics.tracer.common";version="1.3.1"
Import-Package: io.prometheus.metrics.tracer.common;version="[1.3,2)",io
.prometheus.metrics.tracer.otel;version="[1.3,2)",io.prometheus.metrics
.tracer.otel_agent;version="[1.3,2)"
Tool: Bnd-2.1.0.20130426-122213

Found in path(s):
* /opt/cola/permits/2309102167_1736201853.6599133/0/prometheus-metrics-tracer-initializer-1-3-1-1-jar/META-INF/MANIFEST.MF
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* /opt/cola/permits/2309102167_1736201853.6599133/0/prometheus-metrics-tracer-initializer-1-3-1-1-jar/META-INF/maven/io.prometheus/prometheus-metrics-tracer-initializer/pom.xml

1.6201 jmx-prometheus-javaagent 1.0.1

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1.6202 prometheus-metrics-model 1.3.1

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* /opt/cola/permits/2309102285_1736201866.394854/0/prometheus-metrics-model-1-3-1-1-jar/META-INF/maven/io.prometheus/prometheus-metrics-model/pom.xml
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Manifest-Version: 1.0
Automatic-Module-Name: io.prometheus.metrics.model
Bnd-LastModified: 1716462285816
Build-Jdk: 21.0.3
Built-By: fabian
Bundle-Description: Data model for read-only immutable Prometheus metric
s snapshots.
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Prometheus Metrics Model
Bundle-SymbolicName: io.prometheus.metrics-model
Bundle-Version: 1.3.1
Created-By: Apache Maven Bundle Plugin
Export-Package: io.prometheus.metrics.model.snapshots;version="1.3.1",io
.prometheus.metrics.model.registry;uses:="io.prometheus.metrics.model.s
napshots";version="1.3.1"
Tool: Bnd-2.1.0.20130426-122213

Found in path(s):
* /opt/cola/permits/2309102285_1736201866.394854/0/prometheus-metrics-model-1-3-1-1-jar/META-INF/MANIFEST.MF

1.6203 otel-trace 1.32.0

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1.6204 jackson-dataformat-yaml 2.17.1

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1.6205 fifo 1.1.0

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1.6207 sys-signal 0.7.0

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1.6208 x-sync 0.9.0

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1.6210 bigfft 0.0.0-20230129092748-24d4a6f8daec

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1.6211 x-mod 0.22.0

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1.6212 typeurl 2.1.1

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1.6213 sys-user 0.3.0

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1.6215 runtime-spec 1.1.0

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1.6216 go-events 0.0.0-20190806004212-e31b211e4f1c

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1.6217 cgroups 1.1.0

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localtime.go, localtime_test.go:

Originals:
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Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.

* 'Local' prefix added to all structs.
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1.6220 ttrpc 1.2.5

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1.6221 promptui 0.9.0

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1.6222 jest-config/node_modules/color-name 1.1.4

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1.6223 jest-resolve/node_modules/color-convert 2.0.1

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1.6224 jest-watch-typeahead/node_modules/slash 4.0.0

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1.6225 workbox-build/node_modules/webidl-conversions 4.0.2

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1.6226 react-dev-utils/node_modules/color-convert 2.0.1

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1.6227 jest-config/node_modules/chalk 4.1.2

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1.6228 @jest/core/node_modules/color-name 1.1.4

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1.6229 jest-watch-typeahead/node_modules/strip-ansi 7.0.1

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1.6230 jake/node_modules/chalk 4.1.2

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1.6231 @nicolo-ribaudo/eslint-scope-5-internals/node_modules/estraverse 4.3.0

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```
{
  "compilerOptions": {
    "module": "node16",
    "lib": [
      "es6"
    ],
    "noImplicitAny": true,
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"noImplicitThis": true,
"strictNullChecks": true,
"strictFunctionTypes": true,
"types": [],
"noEmit": true,
"forceConsistentCasingInFileNames": true
},
"files": [
"index.d.ts",
"npm-license-crawler-tests.ts"
]
}
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{
"compilerOptions": {
"module": "node16",
"lib": [
"es6"
],
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"strictFunctionTypes": true,
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"types": [],
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"files": [
"index.d.ts",
"oslicense-tests.ts"
]

```
}
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    ],
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    "noImplicitThis": true,
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  "files": [
    "index.d.ts",
    "legal-eagle-tests.ts"
  ]
}
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    "lib": [
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    ],
    "noImplicitAny": true,
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    "strictFunctionTypes": true,
    "strictNullChecks": true,
    "types": [],
    "noEmit": true,
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  "files": [
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    "zpl-image-tests.ts"
  ]
}
{
  "rules": {
    "@definitelytyped/no-any-union": "off",
    "@definitelytyped/no-declare-current-package": "off",
    "@definitelytyped/strict-export-declare-modifiers": "off",
    "@typescript-eslint/triple-slash-reference": "off",
    "@typescript-eslint/naming-convention": "off"
  }
}
```

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```
{
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    "lib": [
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    "forceConsistentCasingInFileNames": true
  },
  "files": [
    "index.d.ts",
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    "types": [],
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  "files": [
    "index.d.ts",
    "validate-npm-package-license-tests.ts"
  ]
}
```

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```
{
  "compilerOptions": {
    "module": "node16",
    "lib": [
      "es6"
    ],
    "noImplicitAny": true,
    "noImplicitThis": true,
    "strictNullChecks": true,
    "strictFunctionTypes": true,
    "types": [],
    "noEmit": true,
    "forceConsistentCasingInFileNames": true
  },
  "files": [
    "index.d.ts",
    "nodejs-license-file-tests.ts"
  ]
}
{
  "files": [
    "index.d.ts",
    "angular-permission-tests.ts"
  ],
  "compilerOptions": {
    "module": "node16",
    "lib": [
      "es6",
      "dom"
    ],
    "noImplicitAny": true,
    "noImplicitThis": true,
    "strictNullChecks": false,
    "strictFunctionTypes": true,
    "types": [],
    "noEmit": true,
    "forceConsistentCasingInFileNames": true
  }
}
{
  "compilerOptions": {
    "module": "node16",
```

```
    "lib": [
      "es6"
    ],
    "noImplicitAny": true,
    "noImplicitThis": true,
    "strictFunctionTypes": true,
    "strictNullChecks": true,
    "types": [],
    "noEmit": true,
    "forceConsistentCasingInFileNames": true
  },
  "files": [
    "index.d.ts",
    "license-key-gen-tests.ts"
  ]
}
{
  "compilerOptions": {
    "module": "node16",
    "lib": [
      "es6"
    ],
    "noImplicitAny": true,
    "noImplicitThis": true,
    "strictNullChecks": true,
    "strictFunctionTypes": true,
    "types": [],
    "noEmit": true,
    "forceConsistentCasingInFileNames": true
  },
  "files": [
    "index.d.ts",
    "license-checker-webpack-plugin-tests.ts"
  ]
}
```

1.6232 @jest/core/node_modules/supports-color 7.2.0

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1.6233 jake/node_modules/ansi-styles 4.3.0

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1.6234 eslint/node_modules/type-fest 0.20.2

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1.6235 webpack-manifest-plugin/node_modules/source-map 0.6.1

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```
{
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}
{
 "foo": "dynamic"
}
```

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1.6236 jest-diff/node_modules/supports-color 7.2.0

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1.6237 csso/node_modules/source-map 0.6.1

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1.6238 @istanbuljs/load-nyc-config/node_modules/locate-path 5.0.0

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1.6239 jake/node_modules/has-flag 4.0.0

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1.6240 jest-watch-typeahead/node_modules/emittery 0.10.2

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1.6241 jest-core 27.5.1

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1.6242 pkg-dir/node_modules/p-locate 4.1.0

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1.6243 jest-watch-typeahead/node_modules/jest-watcher 28.1.3

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1.6244 jest-watch-typeahead/node_modules/jest-watcher/node_modules/string-length 4.0.2

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1.6245 webpack-dev-middleware/node_modules/ajv-keywords 5.1.0

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1.6246 jest-validate/node_modules/ansi-styles 4.3.0

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1.6247 jest-watch-typeahead/node_modules/chalk 4.1.2

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1.6248 escodegen/node_modules/optionator 0.8.3

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1.6249 svgo/node_modules/css-what 3.4.2

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1.6250 svgr-babel-plugin-svg-em-dimensions 5.4.0

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1.6251 @typescript-eslint/utils/node_modules/eslint-scope 5.1.1

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```
// this script uses the github api to fetch a list of contributors
// https://developer.github.com/v3/repos/#list-contributors
// this endpoint returns a list of contributors sorted by number of contributions

import fetch from 'cross-fetch';
import fs from 'node:fs';
import path from 'node:path';

import { REPO_ROOT } from './paths.mts';

const IGNORED_USERS = new Set([
 'dependabot[bot]',
 'eslint[bot]',
 'greenkeeper[bot]',
 'semantic-release-bot',
]);

const COMPLETELY_ARBITRARY_CONTRIBUTION_COUNT = 3;
const PAGE_LIMIT = 100;
// arbitrary limit -- this means we can only fetch 10*100=1000 contributors but it means we don't ever loop forever
const MATCH_PAGE_NUMBER = 10;
const contributorsApiUrl = `https://api.github.com/repos/typescript-eslint/typescript-
eslint/contributors?per_page=${PAGE_LIMIT}`;

interface Contributor {
```

```
 avatar_url?: string;
 contributions: number;
 html_url?: string;
 login?: string;
 type: string;
 url?: string;
}
interface User {
 avatar_url: string;
  html_url: string;
 login: string;
 name: string;
}

// eslint-disable-next-line @typescript-eslint/no-unnecessary-type-parameters -- intentional 'unsafe' single generic in
return type
async function getData<T>(
 url: string,
): Promise<{ body: T; linkHeader: string | null }>;
// eslint-disable-next-line @typescript-eslint/no-unnecessary-type-parameters -- intentional 'unsafe' single generic in
return type
async function getData<T>(
 url: string | undefined,
): Promise<{ body: T; linkHeader: string | null } | null>;
async function getData<T>(
 url: string | undefined,
): Promise<{ body: T; linkHeader: string | null } | null> {
 if (url == null) {
   return null;
 }

 const response = await fetch(url, {
   headers: {
     Accept: 'application/vnd.github.v3+json',
     // Authorization: 'token ghp_xxxx', // if needed, replace this with your token
   },
   method: 'GET',
 });

 const linkHeader = response.headers.get('link');

 return {
   body: (await response.json())
 as T,
   linkHeader,
 };
}
```

```
async function* fetchUsers(page = 1): AsyncIterableIterator<Contributor[]> {
 while (page <= MATCH_PAGE_NUMBER) {
   console.log(`Fetching page ${page} of contributors...`);
   const contributors = await getData<{ message: string } | Contributor[]>(
     `${contributorsApiUrl}&page=${page}`,
   );

   if (!Array.isArray(contributors.body)) {
     throw new Error(contributors.body.message);
   }

   const thresholdedContributors = contributors.body.filter(
     user => user.contributions >= COMPLETELY_ARBITRARY_CONTRIBUTION_COUNT,
   );
   yield thresholdedContributors;

   if (
     // https://docs.github.com/en/rest/using-the-rest-api/using-pagination-in-the-rest-api?apiVersion=2022-11-
28#using-link-headers
     // > The URL for the next page is followed by rel="next".
     // > the link to the last page won't be included if it can't be calculated.
     // i.e. if there's no "next" link then there's no next page and we're at the end

   !contributors.linkHeader?.includes('rel="next"')
   ) {
     break;
   }

   page += 1;
 }
}

function writeTable(contributors: User[], perLine = 5): void {
 const columns = contributors.length > perLine ? perLine : contributors.length;

 const lines = [
   '<!-- ------------------------------------------',
   ' |     DO NOT MODIFY THIS FILE MANUALLY      |',
   ' |                                           |',
   ' | THIS FILE HAS BEEN AUTOMATICALLY GENERATED |',
   ' |                                           |',
   ' |    YOU CAN REGENERATE THIS FILE USING     |',
   ' |        yarn generate-contributors         |',
   ' ------------------------------------------ -->',
   '',
   '# Contributors',
   '',
   'Thanks goes to these wonderful people:',
```

```
  ",
  '<!-- prettier-ignore-start -->',
  '<!-- markdownlint-disable -->',
  '<table>',
];

let i = 0;
for (const usr of contributors) {
  if (i % columns === 0) {
    if (i !== 0) {

lines.push('  </tr>');
    }
    lines.push('  <tr>');
  }

  const image = `<img src="${usr.avatar_url}&size=100" width="100px;" alt=""/>`;
  const name = `<sub><b>${usr.name || usr.login}</b></sub>`;

  lines.push(
    `    <td align="center"><a href="${usr.html_url}">${image}<br />${name}</a></td>`,
  );
  ++i;
}
if (i % columns !== 0) {
  lines.push('  </tr>');
}

lines.push('  </tr>');
lines.push('</table>');
lines.push('');
lines.push('<!-- markdownlint-restore -->');
lines.push('<!-- prettier-ignore-end -->');
lines.push('');
lines.push(
  `<sup>This list is auto-generated using \`yarn generate-contributors\`. It shows the top ${PAGE_LIMIT}
contributors with > ${COMPLETELY_ARBITRARY_CONTRIBUTION_COUNT} contributions.</sup>`,
);
lines.push('');

fs.writeFileSync(path.join(REPO_ROOT, 'CONTRIBUTORS.md'), lines.join('\n'));
}

async function main(): Promise<void> {
 const githubContributors: Contributor[] = [];

 // fetch all of the
```

```
 contributor info
 for await (const lastUsers of fetchUsers()) {
   githubContributors.push(...lastUsers);
 }

 // fetch the user info
 console.log(`Fetching user information...`);
 const users = await Promise.allSettled(
   githubContributors
     // remove ignored users and bots
     .filter(
       usr => usr.login && usr.type !== 'Bot' && !IGNORED_USERS.has(usr.login),
     )
     // fetch the in-depth information for each user
     .map(c => getData<User>(c.url)),
 );

 writeTable(
   users
     .map(result => {
       if (result.status === 'fulfilled') {
         return result.value?.body;
       }
       return null;
     })
     .filter((c): c is User => c?.login != null),
   5,
 );
}

main().catch((error: unknown) => {
 console.error(error);
 process.exitCode = 1;
});
```

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```
<!-- ------------------------------------------
|     DO NOT MODIFY THIS FILE MANUALLY      |
|                                           |
| THIS FILE HAS BEEN AUTOMATICALLY GENERATED |
|                                           |
|    YOU CAN REGENERATE THIS FILE USING     |
|        yarn generate-contributors         |
------------------------------------------ -->

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<!-- markdownlint-disable -->
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   <td align="center"><a href="https://github.com/bradzacher"><img
src="https://avatars.githubusercontent.com/u/7462525?v=4&size=100" width="100px;" alt=""/><br
/><sub><b>Brad Zacher</b></sub></a></td>
   <td align="center"><a href="https://github.com/JoshuaKGoldberg"><img
src="https://avatars.githubusercontent.com/u/3335181?v=4&size=100" width="100px;" alt=""/><br
/><sub><b>Josh Goldberg </b></sub></a></td>
   <td align="center"><a href="https://github.com/JamesHenry"><img
src="https://avatars.githubusercontent.com/u/900523?v=4&size=100"
 width="100px;" alt=""/><br /><sub><b>James Henry</b></sub></a></td>
   <td align="center"><a href="https://github.com/armano2"><img
src="https://avatars.githubusercontent.com/u/625469?v=4&size=100" width="100px;" alt=""/><br
/><sub><b>Armano</b></sub></a></td>
   <td align="center"><a href="https://github.com/yeonjuan"><img
src="https://avatars.githubusercontent.com/u/41323220?v=4&size=100" width="100px;" alt=""/><br
/><sub><b>YeonJuan</b></sub></a></td>
 </tr>
 <tr>
   <td align="center"><a href="https://github.com/auvred"><img
src="https://avatars.githubusercontent.com/u/61150013?v=4&size=100" width="100px;" alt=""/><br
/><sub><b>auvred</b></sub></a></td>
   <td align="center"><a href="https://github.com/kirkwaiblinger"><img
src="https://avatars.githubusercontent.com/u/53019676?v=4&size=100" width="100px;" alt=""/><br
```

/>_{Kirk Waiblinger}</td>
<td align="center"><img
src="https://avatars.githubusercontent.com/u/7842684?v=4&size=100" width="100px;" alt=""/>
_{Abraham Guo}</td>
<td align="center"><img
src="https://avatars.githubusercontent.com/u/55398995?v=4&size=100" width="100px;" alt=""/>
_{Joshua Chen}</td>
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_{Oleksandr T.}</td>
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_{SUZUKI Sosuke}</td>
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href="https://github.com/soda0289"><img src="https://avatars.githubusercontent.com/u/2373964?v=4&size=100"
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_{Reyad Attiyat}</td>
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_{Gareth Jones}</td>
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_{Patricio Trevino}</td>
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_{Yukihiro Hasegawa}</td>
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_{Jed Fox}</td>
<td align="center"><img
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_{Kim Sang Du}</td>
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_{Rafael Santana}</td>
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_{Ben Lichtman}</td>
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_{James}</td>
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_{fisker Cheung}</td>
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_{Taeheon Kim}</td>
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_{Nikita}</td>
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_{Scott O'Hara}</td>
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_{Rebecca Stevens}</td>
<td align="center"><img
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_{Mark de Dios}</td>
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_{Yosuke Ota}</td>
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_{Retsam}</td>
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_{Bryan Mishkin}</td>
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   <td align="center"><a href="https://github.com/mysticatea"><img
src="https://avatars.githubusercontent.com/u/1937871?v=4&size=100" width="100px;" alt=""/><br
/><sub><b>Toru Nagashima</b></sub></a></td>
   <td align="center"><a href="https://github.com/jakebailey"><img
src="https://avatars.githubusercontent.com/u/5341706?v=4&size=100"
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src="https://avatars.githubusercontent.com/u/8336744?v=4&size=100" width="100px;" alt=""/><br
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src="https://avatars.githubusercontent.com/u/1297597?v=4&size=100" width="100px;" alt=""/><br
/><sub><b>Lucas Azzola</b></sub></a></td>
   <td align="center"><a href="https://github.com/SimenB"><img
src="https://avatars.githubusercontent.com/u/1404810?v=4&size=100" width="100px;" alt=""/><br
/><sub><b>Simen Bekkhus</b></sub></a></td>
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src="https://avatars.githubusercontent.com/u/65934663?v=4&size=100" width="100px;" alt=""/><br
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src="https://avatars.githubusercontent.com/u/13107421?v=4&size=100"
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/><sub><b>Mackie Underdown</b></sub></a></td>
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/><sub><b>Lauren Yim</b></sub></a></td>
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/><sub><b>Ika</b></sub></a></td>
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src="https://avatars.githubusercontent.com/u/315788?v=4&size=100" width="100px;" alt=""/><br
/><sub><b>Danny Fritz</b></sub></a></td>
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/><sub><b>Tiger Oakes</b></sub></a></td>
   <td align="center"><a href="https://github.com/octogonz"><img
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/><sub><b>Kanitkorn Sujautra</b></sub></a></td>
   <td align="center"><a href="https://github.com/Vinccool96"><img
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/>_{mdm317}</td>
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/>_{Zzzen}</td>
<td align="center"><img
src="https://avatars.githubusercontent.com/u/82288753?v=4&size=100" width="100px;" alt=""/>
/>_{Juan Garca}</td>
</tr>
</tr>
</table>

<!-- markdownlint-restore -->
<!-- prettier-ignore-end -->

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1.6252 csso/node_modules/css-tree 1.1.3

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1.6253 jest-message-util/node_modules/ansi-styles 4.3.0

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1.6254 filelist/node_modules/minimatch 5.1.0

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1.6255 jest-each/node_modules/supports-color 7.2.0

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1.6256 @eslint/eslintrc/node_modules/js-yaml 4.1.0

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1.6257 css-minimizer-webpack-plugin/node_modules/json-schema-traverse 1.0.0

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1.6258 @istanbuljs/load-nyc-config/node_modules/p-locate 4.1.0

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1.6259 jest-diff/node_modules/color-name 1.1.4

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1.6260 serve-index/node_modules/inherits 2.0.3

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1.6261 jest-watcher/node_modules/color-convert 2.0.1

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1.6262 jest-cli/node_modules/ansi-styles 4.3.0

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By: Jon Schlinkert, Brian Woodward, Daniel Perez
Repository: micromatch/is-glob

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Repository: jonschlinkert/is-number

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Repository: git+https://github.com/Rich-Harris/is-reference.git

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magic-string
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readdirp
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Repository: git://github.com/paulmillr/readdirp.git

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Repository: https://github.com/tapjs/signal-exit.git

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By: Rich Harris
Repository: https://github.com/Rich-Harris/sourcemap-codec

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to-regex-range
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Repository: micromatch/to-regex-range

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yargs-parser
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By: Ben Coe
Repository: https://github.com/yargs/yargs-parser.git

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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// Original can be found at:
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// Modifications by Joshua Bell inexorabletash@gmail.com
// https://github.com/inexorabletash/polyfill

// ES3/ES5 implementation of the Krhonos Typed Array Specification
// Ref: http://www.khronos.org/registry/typedarray/specs/latest/
// Date: 2011-02-01
//
// Variations:
// * Allows typed_array.get/set() as alias for subscripts (typed_array[])
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of nodejs/io.js:

- tests/iojs/test-http-parser-durability.js

This file is from https://github.com/mscdex/io.js/blob/js-http-parser/test/pummel/test-http-parser-durability.js
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- tests/fixtures/*
tests/parallel/*
tests/testpy/*
tests/common.js
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These files are from https://github.com/nodejs/node with changes by
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1.6263 jest-resolve/node_modules/ansi-styles 4.3.0

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1.6264 jest-jasmine2/node_modules/ansi-styles 4.3.0

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1.6265 jest-each/node_modules/chalk 4.1.2

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1.6266 @eslint/eslintrc/node_modules/type-fest 0.20.2

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1.6267 rollup-plugin-terser/node_modules/has-flag 4.0.0

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1.6268 eslint/node_modules/ansi-styles 4.3.0

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1.6269 workbox-webpack-plugin/node_modules/source-map 0.6.1

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1.6270 jest-watch-typeahead/node_modules/@jest/test-result

28.1.3

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1.6271 @jest/transform/node_modules/chalk 4.1.2

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1.6272 jest-watcher/node_modules/supports-color 7.2.0

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1.6273 workbox-build/node_modules/fs-extra 9.1.0

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1.6274 @jest/transform/node_modules/source-map 0.6.1

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1.6275 webpack/node_modules/@types/estree 0.0.51

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```
{
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}
{
 "foo": "dynamic"
}
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1.6276 @babel/generator/node_modules/@jridgewell/gen-mapping 0.3.2

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1.6277 jake/node_modules/supports-color 7.2.0

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1.6278 jest-watch-typeahead/node_modules/@jest/console/node_modules/slash 3.0.0

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1.6279 jest-validate/node_modules/chalk 4.1.2

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1.6280 import-fresh/node_modules/resolve-from 4.0.0

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1.6281 prop-types/node_modules/react-is 16.13.1

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1.6282 @jest/reporters/node_modules/source-map 0.6.1

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1.6283 @babel/preset-env/node_modules/semver 6.3.1

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1.6284 css-minimizer-webpack-plugin/node_modules/ajv 8.11.0

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1.6285 jest-cli/node_modules/has-flag 4.0.0

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1.6286 svgr-babel-plugin-remove-jsx-attribute 5.4.0

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1.6287 rollup-plugin-terser/node_modules/supports-color 7.2.0

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1.6288 jest-worker/node_modules/supports-color 8.1.1

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1.6289 regjsparser/node_modules/jsesc 0.5.0

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1.6290 react-dev-utils/node_modules/supports-color 7.2.0

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1.6292 @typescript-eslint/utils/node_modules/estraverse 4.3.0

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```
// this script uses the github api to fetch a list of contributors
// https://developer.github.com/v3/repos/#list-contributors
// this endpoint returns a list of contributors sorted by number of contributions

import fetch from 'cross-fetch';
import fs from 'node:fs';
import path from 'node:path';

import { REPO_ROOT } from './paths.mts';

const IGNORED_USERS = new Set([
 'dependabot[bot]',
 'eslint[bot]',
 'greenkeeper[bot]',
 'semantic-release-bot',
]);

const COMPLETELY_ARBITRARY_CONTRIBUTION_COUNT = 3;
const PAGE_LIMIT = 100;
// arbitrary limit -- this means we can only fetch 10*100=1000 contributors but it means we don't ever loop forever
const MATCH_PAGE_NUMBER = 10;
const contributorsApiUrl = `https://api.github.com/repos/typescript-eslint/typescript-eslint/contributors?per_page=${PAGE_LIMIT}`;

interface Contributor {
 avatar_url?: string;
 contributions: number;
 html_url?: string;
 login?: string;
 type: string;
 url?: string;
}
interface User {
 avatar_url: string;
  html_url: string;
 login: string;
 name: string;
}

// eslint-disable-next-line @typescript-eslint/no-unnecessary-type-parameters -- intentional 'unsafe' single generic in return type
async function getData<T>(
 url: string,
```

```
): Promise<{ body: T; linkHeader: string | null }>;
// eslint-disable-next-line @typescript-eslint/no-unnecessary-type-parameters -- intentional 'unsafe' single generic in return type
async function getData<T>(
 url: string | undefined,
): Promise<{ body: T; linkHeader: string | null } | null>;
async function getData<T>(
 url: string | undefined,
): Promise<{ body: T; linkHeader: string | null } | null> {
 if (url == null) {
   return null;
 }

 const response = await fetch(url, {
   headers: {
     Accept: 'application/vnd.github.v3+json',
     // Authorization: 'token ghp_xxxx', // if needed, replace this with your token
   },
   method: 'GET',
 });

 const linkHeader = response.headers.get('link');

 return {
   body: (await response.json())
 as T,
   linkHeader,
 };
}

async function* fetchUsers(page = 1): AsyncIterableIterator<Contributor[]> {
 while (page <= MATCH_PAGE_NUMBER) {
   console.log(`Fetching page ${page} of contributors...`);
   const contributors = await getData<{ message: string } | Contributor[]>(
     `${contributorsApiUrl}&page=${page}`,
   );

   if (!Array.isArray(contributors.body)) {
     throw new Error(contributors.body.message);
   }

   const thresholdedContributors = contributors.body.filter(
     user => user.contributions >= COMPLETELY_ARBITRARY_CONTRIBUTION_COUNT,
   );
   yield thresholdedContributors;

   if (
     // https://docs.github.com/en/rest/using-the-rest-api/using-pagination-in-the-rest-api?apiVersion=2022-11-
```

```
28#using-link-headers
    // > The URL for the next page is followed by rel="next".
    // > the link to the last page won't be included if it can't be calculated.
    // i.e. if there's no "next" link then there's no next page and we're at the end

  !contributors.linkHeader?.includes('rel="next"')
  ) {
    break;
  }

  page += 1;
 }
}

function writeTable(contributors: User[], perLine = 5): void {
 const columns = contributors.length > perLine ? perLine : contributors.length;

 const lines = [
  '<!-- ------------------------------------------',
  ' |     DO NOT MODIFY THIS FILE MANUALLY      |',
  ' |                                           |',
  ' | THIS FILE HAS BEEN AUTOMATICALLY GENERATED |',
  ' |                                           |',
  ' |    YOU CAN REGENERATE THIS FILE USING     |',
  ' |        yarn generate-contributors         |',
  ' ------------------------------------------ -->',
  '',
  '# Contributors',
  '',
  'Thanks goes to these wonderful people:',
  '',
  '<!-- prettier-ignore-start -->',
  '<!-- markdownlint-disable -->',
  '<table>',
 ];

 let i = 0;
 for (const usr of contributors) {
  if (i % columns === 0) {
    if (i !== 0) {

 lines.push('  </tr>');
    }
    lines.push('  <tr>');
  }

  const image = `<img src="${usr.avatar_url}&size=100" width="100px;" alt=""/>`;
  const name = `<sub><b>${usr.name || usr.login}</b></sub>`;
```

```
  lines.push(
    `    <td align="center"><a href="${usr.html_url}">${image}<br />${name}</a></td>`,
  );
  ++i;
 }
 if (i % columns !== 0) {
  lines.push('  </tr>');
 }

 lines.push('  </tr>');
 lines.push('</table>');
 lines.push('');
 lines.push('<!-- markdownlint-restore -->');
 lines.push('<!-- prettier-ignore-end -->');
 lines.push('');
 lines.push(
  `<sup>This list is auto-generated using \`yarn generate-contributors\`. It shows the top ${PAGE_LIMIT}
contributors with > ${COMPLETELY_ARBITRARY_CONTRIBUTION_COUNT} contributions.</sup>`,
 );
 lines.push('');

 fs.writeFileSync(path.join(REPO_ROOT, 'CONTRIBUTORS.md'), lines.join('\n'));
}

async function main(): Promise<void> {
 const githubContributors: Contributor[] = [];

 // fetch all of the
 contributor info
 for await (const lastUsers of fetchUsers()) {
  githubContributors.push(...lastUsers);
 }

 // fetch the user info
 console.log(`Fetching user information...`);
 const users = await Promise.allSettled(
  githubContributors
   // remove ignored users and bots
   .filter(
    usr => usr.login && usr.type !== 'Bot' && !IGNORED_USERS.has(usr.login),
   )
   // fetch the in-depth information for each user
   .map(c => getData<User>(c.url)),
 );

 writeTable(
  users
```

```
    .map(result => {
      if (result.status === 'fulfilled') {
        return result.value?.body;
      }
      return null;
    })
    .filter((c): c is User => c?.login != null),
  5,
);
}

main().catch((error: unknown) => {
 console.error(error);
 process.exitCode = 1;
});
```

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```
<!-- ------------------------------------------
|     DO NOT MODIFY THIS FILE MANUALLY      |
|                                           |
| THIS FILE HAS BEEN AUTOMATICALLY GENERATED |
|                                           |
|    YOU CAN REGENERATE THIS FILE USING     |
|        yarn generate-contributors         |
------------------------------------------- -->
```

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<!-- markdownlint-disable -->
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   <td align="center"><img
src="https://avatars.githubusercontent.com/u/7462525?v=4&size=100" width="100px;" alt=""/>
_{Brad Zacher}</td>
   <td align="center"><img
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_{Josh Goldberg}</td>
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   <td align="center"><img
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_{Armano}</td>
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_{Abraham Guo}</td>
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_{Joshua Chen}</td>
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_{Michal De Boey}</td>
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_{SUZUKI Sosuke}</td>
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href="https://github.com/soda0289">
_{Reyad Attiyat}</td>
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_{Gareth Jones}</td>
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_{Patricio Trevino}</td>
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<td align="center">
_{Ronen Amiel}</td>
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_{Zzzen}</td>
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_{Juan Garca}</td>
</tr>
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</table>

<!-- markdownlint-restore -->
<!-- prettier-ignore-end -->

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1.6293 workbox-build/node_modules/json-schema-traverse 1.0.0

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1.6294 mini-css-extract-plugin/node_modules/ajv 8.11.0

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1.6295 svgo/node_modules/dom-serializer 0.2.2

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1.6296 @rollup/pluginutils/node_modules/@types/estree 0.0.39

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```
{
  "compilerOptions": {
    "module": "node16",
    "lib": [
      "es6"
    ],
    "noImplicitAny": true,
    "noImplicitThis": true,
    "strictNullChecks": true,
    "strictFunctionTypes": true,
    "types": [],
    "noEmit": true,
    "forceConsistentCasingInFileNames": true
  },
```

```
  "files": [
    "index.d.ts",
    "npm-license-crawler-tests.ts"
  ]
}
{
  "compilerOptions": {
    "module": "node16",
    "lib": [
      "es6"
    ],
    "noImplicitAny": true,
    "noImplicitThis": true,
    "strictFunctionTypes": true,
    "strictNullChecks": true,
    "types": [],
    "noEmit": true,
    "forceConsistentCasingInFileNames": true
  },
  "files": [
    "index.d.ts",
    "oslicense-tests.ts"
  ]
}
```

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```
{
  "compilerOptions": {
    "module": "node16",
    "lib": [
      "es6"
    ],
```

```
    "noImplicitAny": true,
    "noImplicitThis": true,
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    "strictFunctionTypes": true,
    "types": [],
    "noEmit": true,
    "forceConsistentCasingInFileNames": true
  },
  "files": [
    "index.d.ts",
    "legal-eagle-tests.ts"
  ]
}
{
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    "lib": [
      "es6"
    ],
    "noImplicitAny": true,
    "noImplicitThis": true,
    "strictFunctionTypes": true,
    "strictNullChecks": true,
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    "forceConsistentCasingInFileNames": true
  },
  "files": [
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    "zpl-image-tests.ts"
  ]
}
{
  "rules": {
    "@definitelytyped/no-any-union": "off",
    "@definitelytyped/no-declare-current-package": "off",
    "@definitelytyped/strict-export-declare-modifiers": "off",
    "@typescript-eslint/triple-slash-reference": "off",
    "@typescript-eslint/naming-convention": "off"
  }
}
```

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```
{
  "compilerOptions": {
    "module": "node16",
    "lib": [
      "es6"
    ],
```

```
    "noImplicitAny": true,
    "noImplicitThis": true,
    "strictNullChecks": true,
    "strictFunctionTypes": true,
    "types": [],
    "noEmit": true,
    "forceConsistentCasingInFileNames": true
  },
  "files": [
    "index.d.ts",
    "license-checker-tests.ts"
  ]
}
{
  "compilerOptions": {
    "module": "node16",
    "lib": [
      "es6"
    ],
    "noImplicitAny": true,
    "noImplicitThis": true,
    "strictFunctionTypes": true,
    "strictNullChecks": true,
    "types": [],
    "noEmit": true,
    "forceConsistentCasingInFileNames": true
  },
  "files": [
    "index.d.ts",
    "validate-npm-package-license-tests.ts"
  ]
}
```

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```
{
  "compilerOptions": {
    "module": "node16",
    "lib": [
      "es6"
    ],
    "noImplicitAny": true,
    "noImplicitThis": true,
    "strictNullChecks": true,
    "strictFunctionTypes": true,
    "types": [],
    "noEmit": true,
    "forceConsistentCasingInFileNames": true
  },
  "files": [
    "index.d.ts",
    "nodejs-license-file-tests.ts"
  ]
}
{
  "files": [
    "index.d.ts",
    "angular-permission-tests.ts"
  ],
  "compilerOptions": {
    "module": "node16",
    "lib": [
      "es6",
      "dom"
    ],
    "noImplicitAny": true,
    "noImplicitThis": true,
    "strictNullChecks": false,
    "strictFunctionTypes": true,
    "types": [],
    "noEmit": true,
    "forceConsistentCasingInFileNames": true
  }
}
{
  "compilerOptions": {
    "module": "node16",
    "lib": [
      "es6"
    ],
    "noImplicitAny": true,
    "noImplicitThis": true,
    "strictFunctionTypes": true,
```

```
    "strictNullChecks": true,
    "types": [],
    "noEmit": true,
    "forceConsistentCasingInFileNames": true
  },
  "files": [
    "index.d.ts",
    "license-key-gen-tests.ts"
  ]
}
{
  "compilerOptions": {
    "module": "node16",
    "lib": [
      "es6"
    ],
    "noImplicitAny": true,
    "noImplicitThis": true,
    "strictNullChecks": true,
    "strictFunctionTypes": true,
    "types": [],
    "noEmit": true,
    "forceConsistentCasingInFileNames": true
  },
  "files": [
    "index.d.ts",
    "license-checker-webpack-plugin-tests.ts"
  ]
}
```

1.6297 @svgr/core 5.5.0

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1.6298 @jest/reporters/node_modules/color-name 1.1.4

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1.6299 jest-jasmine2/node_modules/supports-color 7.2.0

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1.6300 jest-circus/node_modules/supports-color 7.2.0

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By: Marijn Haverbeke, Ingvar Stepanyan, Adrian Heine
Repository: https://github.com/acornjs/acorn.git

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Repository: jonschlinkert/fill-range

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hash.js
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Repository: git@github.com:indutny/hash.js

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inherits
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magic-string
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yargs-parser
License: ISC
By: Ben Coe
Repository: https://github.com/yargs/yargs-parser.git

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
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2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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node-http-proxy

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Some files from the tests folder are from joyent/node and mscedex/io.js, a fork
of nodejs/io.js:

- tests/iojs/test-http-parser-durability.js

This file is from https://github.com/mscdex/io.js/blob/js-http-parser/test/pummel/test-http-parser-durability.js
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- tests/fixtures/*
tests/parallel/*
tests/testpy/*
tests/common.js
tests/test.py
tests/utils.py

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1.6301 jest-runner/node_modules/chalk 4.1.2

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1.6302 workbox-build/node_modules/whatwg-url 7.1.0

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1.6303 jest-worker/node_modules/has-flag 4.0.0

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1.6304 jest-watch-typeahead/node_modules/pretty-format/node_modules/ansi-styles 5.2.0

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1.6305 jest-message-util/node_modules/color-convert 2.0.1

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1.6306 jest-jasmine2/node_modules/chalk 4.1.2

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1.6307 jest-snapshot/node_modules/ansi-styles 4.3.0

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1.6308 filelist/node_modules/brace-expansion 2.0.1

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1.6309 postcss-svgo/node_modules/mdn-data 2.0.14

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1.6310 supports-hyperlinks/node_modules/has-flag 4.0.0

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1.6311 fork-ts-checker-webpack-plugin/node_modules/cosmiconfig 6.0.0

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1.6312 jest-util/node_modules/color-convert 2.0.1

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1.6313 hpack.js/node_modules/safe-buffer 5.1.2

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1.6314 jest-runtime/node_modules/chalk 4.1.2

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1.6315 jake/node_modules/color-name 1.1.4

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1.6317 eslint-plugin-import/node_modules/ms 2.0.0

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1.6318 istanbul-lib-report/node_modules/has-flag 4.0.0

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1.6319 babel-jest/node_modules/ansi-styles 4.3.0

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1.6323 jest-watch-typeahead/node_modules/string-length/node_modules/char-regex 2.0.1

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collapse-white-space@v1.0.6

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 cross-spawn@v7.0.3

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Repository: <git@github.com:moxystudio/node-cross-spawn.git>

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css-units-list@v1.1.0

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debug@v4.3.4

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del@v6.0.0

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detect-newline@v3.1.0

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dir-glob@v3.0.1

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error-ex@v1.3.2

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Repository: <https://github.com/justmoon/node-extend.git>

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fast-glob@v3.2.11

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fast-json-stable-stringify@v2.1.0

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Repository: <git://github.com/epoberezkin/fast-json-stable-stringify.git>

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fastq@v1.13.0

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file-entry-cache@v6.0.1

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fill-range@v7.0.1

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find-up@v4.1.0

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flat-cache@v3.0.4

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fs.realpath@v1.0.0

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function-bind@v1.1.1

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json-parse-even-better-errors@v2.3.1

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map-age-cleaner@v0.1.3

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n-readlines@v1.0.1

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npm-run-path@v5.1.0

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once@v1.4.0

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onetime@v6.0.0

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parse-entities@v2.0.0

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path-parse@v1.0.7

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Repository: <https://github.com/jbgutierrez/path-parse.git>

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pseudomap@v1.0.2

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queue-microtask@v1.2.3

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repeat-string@v1.6.1

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run-parallel@v1.2.0

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string-width@v5.0.1

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 trim@v0.0.1

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trim-trailing-lines@v1.1.4

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trough@v1.0.5

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 vnopts@v1.0.2

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wcwidth@v1.0.1

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> wcwidth.js: JavaScript Portng of Markus Kuhn's wcwidth() Implementation
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 which@v2.0.2

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wrappy@v1.0.2

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yallist@v2.1.2

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yaml@v1.10.2

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yaml-unist-parser@v1.3.1

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By: Marijn Haverbeke, Ingvar Stepanyan, Adrian Heine
Repository: https://github.com/acornjs/acorn.git

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ansi-regex
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By: Sindre Sorhus
Repository: chalk/ansi-regex

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Repository: https://github.com/micromatch/anymatch

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Repository: git://github.com/juliangruber/balanced-match.git

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Repository: micromatch/braces

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commondir
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By: James Halliday
Repository: http://github.com/substack/node-commondir.git

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concat-map
License: MIT
By: James Halliday

Repository: git://github.com/substack/node-concat-map.git

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Repository: senchalabs/connect

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connect-history-api-fallback
License: MIT
By: Ben Ripkens, Craig Myles
Repository: http://github.com/bripkens/connect-history-api-fallback.git

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convert-source-map
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By: Thorsten Lorenz
Repository: git://github.com/thlorenz/convert-source-map.git

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cross-spawn
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By: Andr Cruz
Repository: git@github.com:moxystudio/node-cross-spawn.git

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define-lazy-prop
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estree-walker
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By: Rich Harris
Repository: https://github.com/Rich-Harris/estree-walker

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Repository: jshttp/etag

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eventemitter3
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Repository: git://github.com/primus/eventemitter3.git

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By: Denis Malinochkin
Repository: mrmlnc/fast-glob

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By: Matteo Collina
Repository: git+https://github.com/mcollina/fastq.git

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Repository: jonschlinkert/fill-range

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Repository: pillarjs/finalhandler

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follow-redirects
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By: Ruben Verborgh, Olivier
 Lalonde, James Talmage
Repository: git@github.com:follow-redirects/follow-redirects.git

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fs.realpath
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By: Isaac Z. Schlueter

Repository: git+https://github.com/isaacs/fs.realpath.git

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By: Alexey Litvinov
Repository: git+https://github.com/css-modules/generic-names.git

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glob
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By: Isaac Z. Schlueter
Repository:
 git://github.com/isaacs/node-glob.git

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By: Gulp Team, Elan Shanker, Blaine Bublitz
Repository: gulpjs/glob-parent

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http-proxy
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By: Charlie Robbins, jcrugzz <jcrugzz@gmail.com>
Repository: https://github.com/http-party/node-http-proxy.git

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icss-replace-symbols
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Repository: git+https://github.com/css-modules/icss-replace-symbols.git

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inflight
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By: Isaac Z. Schlueter
Repository: https://github.com/npm/inflight.git

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Repository: jonschlinkert/normalize-path

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postcss-modules-extract-imports
License:
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By: Glen Maddern
Repository: https://github.com/css-modules/postcss-modules-extract-imports.git

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postcss-modules-local-by-default
License: MIT
By: Mark Dalgleish

Repository: https://github.com/css-modules/postcss-modules-local-by-default.git

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postcss-selector-parser
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Repository: postcss/postcss-selector-parser

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By: Bogdan Chadkin
Repository: https://github.com/TrySound/postcss-value-parser.git

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Chadkin
Repository: git+https://github.com/TrySound/read-cache.git

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Repository: git://github.com/paulmillr/readdirp.git

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Repository: https://github.com/unshiftio/requires-port

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By: Luke Edwards
Repository: lukeed/resolve.exports

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Repository: git+https://github.com/mcollina/reusify.git

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Repository: git://github.com/feross/run-parallel.git

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shebang-command
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By: Kevin Mrtensson
Repository: kevva/shebang-command

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shebang-regex
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By: James Halliday
Repository: http://github.com/substack/node-shell-quote.git

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sourcemap-codec
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By: Rich Harris
Repository: https://github.com/Rich-Harris/sourcemap-codec

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By: Douglas Christopher Wilson, Jonathan Ong
Repository: jshttp/statuses

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By: Anthony Fu
Repository: git+https://github.com/antfu/strip-literal.git

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Repository: git://github.com/TooTallNate/util-deprecate.git

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Repository: grncdr/merge-stream

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Repository: git://github.com/litejs/natural-compare-lite.git

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pretty-format
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By: James Kyle

Repository: https://github.com/facebook/jest.git

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Repository: git://github.com/feross/queue-microtask.git

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reusify

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Repository: git+https://github.com/mcollina/reusify.git

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By: Ben Coe
Repository: https://github.com/tapjs/signal-exit.git

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Repository: git+ssh://git@github.com/chaijs/type-detect.git

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Repository: jonschlinkert/fill-range

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Repository: git@github.com:indutny/hash.js

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Repository: git://github.com/paulmillr/readdirp.git

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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Installation

[Download JSON directly](https://raw.githubusercontent.com/jslicense/spdx-license-ids/main/index.json), or [use](https://docs.npmjs.com/cli/install) [npm](https://docs.npmjs.com/about-npm/):

```
npm install spdx-license-ids
```

[Node.js](https://nodejs.org/) API

require('spdx-license-ids')

Type: `string[]`

All license IDs except for the currently deprecated ones.

```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'ADSL', 'AFL-1.1', 'AFL-1.2', 'AFL-2.0', 'AFL-2.1', 'AFL-3.0', 'AGPL-1.0-only', ...]

ids.includes('BSD-3-Clause'); //=> true
ids.includes('CC-BY-1.0');
 //=> true

ids.includes('GPL-3.0'); //=> false
```

require('spdx-license-ids/deprecated')

Type: `string[]`

Deprecated license IDs.

```javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
//=> ['AGPL-1.0', 'AGPL-3.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', 'GPL-2.0', ...]

deprecatedIds.includes('BSD-3-Clause'); //=> false
deprecatedIds.includes('CC-BY-1.0'); //=> false

deprecatedIds.includes('GPL-3.0'); //=> true
```

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validate-npm-package-license
==========

Give me a string and I'll tell you if it's a valid npm package license string.

```javascript
var valid = require('validate-npm-package-license');
```

SPDX license identifiers are valid license strings:

```javascript

var assert = require('assert');
var validSPDXExpression = {
 validForNewPackages: true,
 validForOldPackages: true,
```

```
 spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
```
The function will return a warning and suggestion for nearly-correct license identifiers:

```javascript
assert.deepEqual(
 valid('Apache 2.0'),
 {
   validForOldPackages: false,
   validForNewPackages: false,
   warnings: [
     'license should be ' +
     'a valid SPDX license expression (without "LicenseRef"), ' +
     '"UNLICENSED", or ' +
      '"SEE LICENSE IN <filename>"',
     'license is similar to the valid expression "Apache-2.0"'
   ]
 }
);
```

SPDX expressions are valid, too ...

```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
 valid('(GPL-3.0-only OR BSD-2-Clause)'),
 validSPDXExpression
);
```

... except if they contain `LicenseRef`:

```javascript
var warningAboutLicenseRef = {
 validForOldPackages: false,
 validForNewPackages: false,
 spdx: true,
 warnings: [
   'license should be ' +
   'a valid SPDX license expression (without "LicenseRef"), ' +
   '"UNLICENSED", or ' +
```

```
  "'SEE LICENSE IN <filename>'",
 ]
};

assert.deepEqual(
 valid('LicenseRef-Made-Up'),
 warningAboutLicenseRef
);

assert.deepEqual(
 valid('(MIT OR LicenseRef-Made-Up)'),
 warningAboutLicenseRef
);
```

If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```javascript
assert.deepEqual(
 valid('SEE
 LICENSE IN LICENSE.txt'),
 {
  validForNewPackages: true,
  validForOldPackages: true,
  inFile: 'LICENSE.txt'
 }
);

assert.deepEqual(
 valid('SEE LICENSE IN license.md'),
 {
  validForNewPackages: true,
  validForOldPackages: true,
  inFile: 'license.md'
 }
);
```

If there aren't any licensing terms, use `UNLICENSED`:

```javascript
var unlicensed = {
 validForNewPackages: true,
 validForOldPackages: true,
 unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
```

```
assert.deepEqual(valid('UNLICENCED'), unlicensed);
```

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1.6328 jest-watch-typeahead/node_modules/@jest/types 28.1.3

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1.6329 pkg-up/node_modules/path-exists 3.0.0

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1.6330 jest-runtime/node_modules/ansi-styles 4.3.0

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1.6331 fork-ts-checker-webpack-plugin/node_modules/schema-utils 2.7.0

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1.6332 jest-reporters 27.5.1

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1.6333 css-minimizer-webpack-plugin/node_modules/schema-utils 4.0.0

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1.6334 jest-config/node_modules/supports-color 7.2.0

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1.6335 css-tree/node_modules/source-map 0.6.1

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1.6336 webpack-dev-server/node_modules/ws 8.10.0

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```
{
 "foo": "static"
}
{
 "foo": "dynamic"
}
```

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1.6337 jest-snapshot/node_modules/color-name 1.1.4

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1.6338 istanbul-lib-source-maps/node_modules/source-map 0.6.1

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1.6339 jest-diff/node_modules/ansi-styles 4.3.0

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1.6340 jest-runtime/node_modules/color-convert 2.0.1

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1.6341 postcss-svgo/node_modules/css-tree 1.1.3

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1.6342 stack-utils/node_modules/escape-string-regexp 2.0.0

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1.6343 @jest/reporters/node_modules/supports-color 7.2.0

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1.6344 @babel/eslint-parser/node_modules/eslint-visitor-keys 2.1.0

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1.6345 eslint/node_modules/escape-string-regexp 4.0.0

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1.6346 jest-message-util/node_modules/has-flag 4.0.0

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1.6347 jest-runtime/node_modules/color-name 1.1.4

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1.6348 csso/node_modules/mdn-data 2.0.14

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1.6349 jest-watch-typeahead/node_modules/pretty-format 28.1.3

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1.6350 svgr-hast-util-to-babel-ast 5.5.0

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1.6351 pkg-dir/node_modules/locate-path 5.0.0

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1.6352 wrap-ansi/node_modules/color-name 1.1.4

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3.1.0 / 2017-09-26
==========

* Add `DEBUG_HIDE_DATE` env var (#486)
* Remove ReDoS regexp in %o formatter (#504)
* Remove "component" from package.json
* Remove `component.json`
* Ignore package-lock.json
* Examples: fix colors printout
* Fix: browser detection
* Fix: spelling mistake (#496, @EdwardBetts)

3.0.1 / 2017-08-24
==========

* Fix: Disable colors in Edge and Internet Explorer (#489)

3.0.0 / 2017-08-08
==========

* Breaking: Remove DEBUG_FD (#406)
* Breaking: Use `Date#toISOString()` instead to `Date#toUTCString()` when output is not a TTY (#418)
* Breaking: Make millisecond timer namespace specific and allow 'always enabled' output (#408)
* Addition: document `enabled` flag (#465)
* Addition: add 256 colors mode (#481)

* Addition: `enabled()` updates existing debug instances, add `destroy()` function (#440)
* Update: component: update "ms" to v2.0.0
* Update: separate the Node and Browser tests in Travis-CI
* Update:
refactor Readme, fixed documentation, added "Namespace Colors" section, redid screenshots
* Update: separate Node.js and web browser examples for organization
* Update: update "browserify" to v14.4.0
* Fix: fix Readme typo (#473)

2.6.9 / 2017-09-22
==========

* remove ReDoS regexp in %o formatter (#504)

2.6.8 / 2017-05-18
==========

* Fix: Check for undefined on browser globals (#462, @marbemac)

2.6.7 / 2017-05-16
==========

* Fix: Update ms to 2.0.0 to fix regular expression denial of service vulnerability (#458, @hubdotcom)
* Fix: Inline extend function in node implementation (#452, @dougwilson)
* Docs: Fix typo (#455, @msasad)

2.6.5 / 2017-04-27
==========

* Fix: null reference check on window.documentElement.style.WebkitAppearance (#447, @thebigredgeek)
* Misc: clean up browser reference checks (#447, @thebigredgeek)
* Misc: add npm-debug.log to .gitignore (@thebigredgeek)

2.6.4 / 2017-04-20
==========

* Fix: bug that would occur if process.env.DEBUG is a non-string value. (#444, @LucianBuzzo)
* Chore: ignore bower.json in npm installations. (#437, @joaovieira)
* Misc: update "ms" to v0.7.3 (@tootallnate)

2.6.3 / 2017-03-13
==========

* Fix: Electron reference to `process.env.DEBUG` (#431, @paulcbetts)
* Docs: Changelog fix (@thebigredgeek)

2.6.2 / 2017-03-10

==========

* Fix: DEBUG_MAX_ARRAY_LENGTH (#420, @slavaGanzin)
* Docs: Add backers and sponsors from Open Collective (#422, @piamancini)
* Docs: Add Slackin invite badge (@tootallnate)

2.6.1 / 2017-02-10
==========

* Fix: Module's `export default` syntax fix for IE8 `Expected identifier` error
* Fix: Whitelist DEBUG_FD for values 1 and 2 only (#415, @pi0)
* Fix: IE8 "Expected identifier" error (#414, @vgoma)
* Fix: Namespaces would not disable once enabled (#409, @musikov)

2.6.0 / 2016-12-28
==========

* Fix: added better null pointer checks for browser useColors
(@thebigredgeek)
* Improvement: removed explicit `window.debug` export (#404, @tootallnate)
* Improvement: deprecated `DEBUG_FD` environment variable (#405, @tootallnate)

2.5.2 / 2016-12-25
==========

* Fix: reference error on window within webworkers (#393, @KlausTrainer)
* Docs: fixed README typo (#391, @lurch)
* Docs: added notice about v3 api discussion (@thebigredgeek)

2.5.1 / 2016-12-20
==========

* Fix: babel-core compatibility

2.5.0 / 2016-12-20
==========

* Fix: wrong reference in bower file (@thebigredgeek)
* Fix: webworker compatibility (@thebigredgeek)
* Fix: output formatting issue (#388, @kribblo)
* Fix: babel-loader compatibility (#383, @escwald)
* Misc: removed built asset from repo and publications (@thebigredgeek)
* Misc: moved source files to /src (#378, @yamikuronue)
* Test: added karma integration and replaced babel with browserify for browser tests (#378, @yamikuronue)
* Test: coveralls integration (#378,
@yamikuronue)
* Docs: simplified language in the opening paragraph (#373, @yamikuronue)

2.4.5 / 2016-12-17
==========

* Fix: `navigator` undefined in Rhino (#376, @jochenberger)
* Fix: custom log function (#379, @hsiliev)
* Improvement: bit of cleanup + linting fixes (@thebigredgeek)
* Improvement: rm non-maintainted `dist/` dir (#375, @freewil)
* Docs: simplified language in the opening paragraph. (#373, @yamikuronue)

2.4.4 / 2016-12-14
==========

* Fix: work around debug being loaded in preload scripts for electron (#368, @paulcbetts)

2.4.3 / 2016-12-14
==========

* Fix: navigation.userAgent error for react native (#364, @escwald)

2.4.2 / 2016-12-14
==========

* Fix: browser colors (#367, @tootallnate)
* Misc: travis ci integration (@thebigredgeek)
* Misc: added linting and testing boilerplate with sanity check (@thebigredgeek)

2.4.1 / 2016-12-13
==========

* Fix: typo that broke the package (#356)

2.4.0 / 2016-12-13
==========

* Fix: bower.json references unbuilt src entry point (#342, @justmatt)
* Fix: revert "handle regex special characters" (@tootallnate)
* Feature: configurable util.inspect()`options for NodeJS (#327, @tootallnate)
* Feature: %O`(big O) pretty-prints objects (#322, @tootallnate)
* Improvement: allow colors in workers (#335, @botverse)
* Improvement: use same color for same namespace. (#338, @lchenay)

2.3.3 / 2016-11-09
==========

* Fix: Catch `JSON.stringify()` errors (#195, Jovan Alleyne)
* Fix: Returning `localStorage` saved values (#331, Levi Thomason)
* Improvement: Don't create an empty object when no `process` (Nathan Rajlich)

2.3.2 / 2016-11-09
==========

* Fix: be super-safe in index.js as well (@TooTallNate)
* Fix: should check whether process exists (Tom Newby)

2.3.1 / 2016-11-09
==========

* Fix: Added electron compatibility (#324, @paulcbetts)
* Improvement: Added performance optimizations (@tootallnate)
* Readme: Corrected PowerShell environment variable example (#252, @gimre)
* Misc: Removed yarn lock file from source control (#321, @fengmk2)

2.3.0 / 2016-11-07
==========

* Fix: Consistent placement of ms diff at end of output (#215, @gorangajic)
* Fix: Escaping of regex special characters in namespace strings (#250, @zacronos)
* Fix: Fixed bug causing crash on react-native (#282, @vkarpov15)
* Feature: Enabled ES6+ compatible import via default export (#212 @bucaran)
* Feature: Added %O formatter to reflect Chrome's console.log capability (#279, @oncletom)
* Package: Update "ms" to 0.7.2 (#315, @DevSide)
* Package: removed superfluous version property from bower.json (#207 @kkirsche)
* Readme: fix USE_COLORS to DEBUG_COLORS
* Readme: Doc fixes for format string sugar (#269, @mlucool)
* Readme: Updated docs for DEBUG_FD and DEBUG_COLORS environment variables (#232, @mattlyons0)
* Readme: doc fixes for PowerShell (#271 #243, @exoticknight
@unreadable)
* Readme: better docs for browser support (#224, @matthewmueller)
* Tooling: Added yarn integration for development (#317, @thebigredgeek)
* Misc: Renamed History.md to CHANGELOG.md (@thebigredgeek)
* Misc: Added license file (#226 #274, @CantemoInternal @sdaitzman)
* Misc: Updated contributors (@thebigredgeek)

2.2.0 / 2015-05-09
==========

* package: update "ms" to v0.7.1 (#202, @dougwilson)
* README: add logging to file example (#193, @DanielOchoa)
* README: fixed a typo (#191, @amir-s)
* browser: expose `storage` (#190, @stephenmathieson)
* Makefile: add a `distclean` target (#189, @stephenmathieson)

2.1.3 / 2015-03-13
==========

* Updated stdout/stderr example (#186)

* Updated example/stdout.js to match debug current behaviour
* Renamed example/stderr.js to stdout.js
* Update Readme.md (#184)
* replace high intensity foreground color for bold (#182, #183)

2.1.2 / 2015-03-01
==========

* dist: recompile
*
update "ms" to v0.7.0
* package: update "browserify" to v9.0.3
* component: fix "ms.js" repo location
* changed bower package name
* updated documentation about using debug in a browser
* fix: security error on safari (#167, #168, @yields)

2.1.1 / 2014-12-29
==========

* browser: use `typeof` to check for `console` existence
* browser: check for `console.log` truthiness (fix IE 8/9)
* browser: add support for Chrome apps
* Readme: added Windows usage remarks
* Add `bower.json` to properly support bower install

2.1.0 / 2014-10-15
==========

* node: implement `DEBUG_FD` env variable support
* package: update "browserify" to v6.1.0
* package: add "license" field to package.json (#135, @panuhorsmalahti)

2.0.0 / 2014-09-01
==========

* package: update "browserify" to v5.11.0
* node: use stderr rather than stdout for logging (#29, @stephenmathieson)

1.0.4 / 2014-07-15
==========

* dist: recompile
* example: remove `console.info()`
log usage
* example: add "Content-Type" UTF-8 header to browser example
* browser: place %c marker after the space character
* browser: reset the "content" color via `color: inherit`

* browser: add colors support for Firefox >= v31
* debug: prefer an instance `log()` function over the global one (#119)
* Readme: update documentation about styled console logs for FF v31 (#116, @wryk)

1.0.3 / 2014-07-09
==========

* Add support for multiple wildcards in namespaces (#122, @seegno)
* browser: fix lint

1.0.2 / 2014-06-10
==========

* browser: update color palette (#113, @gscottolson)
* common: make console logging function configurable (#108, @timoxley)
* node: fix %o colors on old node <= 0.8.x
* Makefile: find node path using shell/which (#109, @timoxley)

1.0.1 / 2014-06-06
==========

* browser: use `removeItem()` to clear localStorage
* browser, node: don't set DEBUG if namespaces is undefined (#107, @leedm777)
* package:
add "contributors" section
* node: fix comment typo
* README: list authors

1.0.0 / 2014-06-04
==========

* make ms diff be global, not be scope
* debug: ignore empty strings in enable()
* node: make DEBUG_COLORS able to disable coloring
* *: export the `colors` array
* npmignore: don't publish the `dist` dir
* Makefile: refactor to use browserify
* package: add "browserify" as a dev dependency
* Readme: add Web Inspector Colors section
* node: reset terminal color for the debug content
* node: map "%o" to `util.inspect()`
* browser: map "%j" to `JSON.stringify()`
* debug: add custom "formatters"
* debug: use "ms" module for humanizing the diff
* Readme: add "bash" syntax highlighting
* browser: add Firebug color support
* browser: add colors for WebKit browsers
* node: apply log to `console`

* rewrite: abstract common logic for Node & browsers
* add .jshintrc file

0.8.1 / 2014-04-14
==========

* package: re-add the
"component" section

0.8.0 / 2014-03-30
==========

* add `enable()` method for nodejs. Closes #27
* change from stderr to stdout
* remove unnecessary index.js file

0.7.4 / 2013-11-13
==========

* remove "browserify" key from package.json (fixes something in browserify)

0.7.3 / 2013-10-30
==========

* fix: catch localStorage security error when cookies are blocked (Chrome)
* add debug(err) support. Closes #46
* add .browser prop to package.json. Closes #42

0.7.2 / 2013-02-06
==========

* fix package.json
* fix: Mobile Safari (private mode) is broken with debug
* fix: Use unicode to send escape character to shell instead of octal to work with strict mode javascript

0.7.1 / 2013-02-05
==========

* add repository URL to package.json
* add DEBUG_COLORED to force colored output
* add browserify support
* fix component. Closes #24

0.7.0 / 2012-05-04
==========

* Added .component to package.json
* Added

debug.component.js build

0.6.0 / 2012-03-16
==========

* Added support for "-" prefix in DEBUG [Vinay Pulim]
* Added `.enabled` flag to the node version [TooTallNate]

0.5.0 / 2012-02-02
==========

* Added: humanize diffs. Closes #8
* Added `debug.disable()` to the CS variant
* Removed padding. Closes #10
* Fixed: persist client-side variant again. Closes #9

0.4.0 / 2012-02-01
==========

* Added browser variant support for older browsers [TooTallNate]
* Added `debug.enable('project:*')` to browser variant [TooTallNate]
* Added padding to diff (moved it to the right)

0.3.0 / 2012-01-26
==========

* Added millisecond diff when isatty, otherwise UTC string

0.2.0 / 2012-01-22
==========

* Added wildcard support

0.1.0 / 2011-12-02
==========

* Added: remove colors unless stderr isatty [TooTallNate]

0.0.1 / 2010-01-03
==========

* Initial release

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```
{
 "name": "",
 'version': "",
 "description": "",
 "licenses": ""
 "licenseFile": "none",
 "licenseModified": "no"
#!/usr/bin/env node

/*
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Code licensed under the BSD License:
http://yuilibrary.com/license/
*/

var checker = require('../lib/index');

var args = require('../lib/args').parse();
var mkdirp = require('mkdirp');
var path = require('path');
var chalk = require('chalk');
var fs = require('fs');

if (args.help) {
  console.error('license-checker@' + require('../package.json').version);
  var usage = [
    '',
    '  --production only show production dependencies.',
    '  --development only show development dependencies.',
    '  --unknown report guessed licenses as unknown licenses.',
    '  --start [path of the initial json to look for]',
    '  --onlyunknown only list packages with unknown or guessed licenses.',
    '  --json output in json format.',
```

```
      '   --csv output in csv format.',
      '   --csvComponentPrefix column prefix for components in csv file',
      '   --out [filepath] write
 the data to a specific file.',
      '   --customPath to add a custom Format file in JSON',
      '   --exclude [list] exclude modules which licenses are in the comma-separated list from the output',
      '   --relativeLicensePath output the location of the license files as relative paths',
      '   --summary output a summary of the license usage',
      '   --failOn [list] fail (exit with code 1) on the first occurrence of the licenses of the semicolon-separated list',
      '   --onlyAllow [list] fail (exit with code 1) on the first occurrence of the licenses not in the semicolon-seperated
list',
      '   --direct look for direct dependencies only',
      '   --packages [list] restrict output to the packages (package@version) in the semicolon-seperated list',
      '   --excludePackages [list] restrict output to the packages (package@version) not in the semicolon-seperated
list',
      '   --excludePrivatePackages restrict output to not include any package marked
 as private',
      '',
      '   --version The current version',
      '   --help  The text you are reading right now :)',
      ''
  ];
  console.error(usage.join('\n'), '\n');
  process.exit(0);
}

if (args.version) {
  console.error(require('../package.json').version);
  process.exit(1);
}

if (args.failOn && args.onlyAllow) {
  console.error('--failOn and --onlyAllow can not be used at the same time. Choose one or the other.');
  process.exit(1);
} else {
  var argValue = args.failOn || args.onlyAllow;
  if (argValue && argValue.indexOf(',') >= 0) {
    var argName = args.failOn ? 'failOn' : 'onlyAllow';
    console.warn('Warning: As of v17 the --' + argName + ' argument takes semicolons as delimeters instead of
commas (some license names can contain commas)');
  }
}

checker.init(args, function(err, json) {

  var formattedOutput = '';

  if (!!err) {
```

```
    console.error('Found error');
    console.error(err);
  }

  if (shouldColorizeOutput(args))
 {
    var keys = Object.keys(json);
    keys.forEach(function(key) {
      var keyParts = key.split('@');
      var colorizedKey = chalk.blue(keyParts[0]) + chalk.dim('@') + chalk.green(keyParts[1]);
      json[colorizedKey] = json[key];
      delete json[key];
    });
  }

  if (args.json) {
    formattedOutput = JSON.stringify(json, null, 2) + '\n';
  } else if (args.csv) {
    formattedOutput = checker.asCSV(json, args.customFormat, args.csvComponentPrefix);
  } else if (args.markdown){
    formattedOutput = checker.asMarkDown(json, args.customFormat) + '\n';
  } else if (args.summary) {
    formattedOutput = checker.asSummary(json);
  } else {
    formattedOutput = checker.asTree(json);
  }

  if (args.files) {
    checker.asFiles(json, args.files);
  } else if (args.out) {
    var dir = path.dirname(args.out);
    mkdirp.sync(dir);
    fs.writeFileSync(args.out, formattedOutput,
 'utf8');
  } else {
    console.log(formattedOutput);
  }
});

function shouldColorizeOutput(args) {
  return args.color && !args.out && !(args.csv || args.json || args.markdown);
}
```

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no

1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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<img width="647" src="https://user-images.githubusercontent.com/71256/29091486-fa38524c-7c37-11e7-895f-e7ec8e1039b6.png">

A tiny JavaScript debugging utility modelled after Node.js core's debugging
technique. Works in Node.js and web browsers.

Installation

```bash
$ npm install debug
```

Usage

`debug` exposes a function; simply pass this function the name of your module, and it will return a decorated version of `console.error`
 for you to pass debug statements to. This will allow you to toggle the debug output for different parts of your module as well as the module as a whole.

Example [_app.js_](./examples/node/app.js):

```js
var debug = require('debug')('http')
 , http = require('http')
 , name = 'My App';

// fake app

debug('booting %o', name);

http.createServer(function(req, res){
 debug(req.method + ' ' + req.url);
 res.end('hello\n');
}).listen(3000, function(){
 debug('listening');
});

// fake worker of some kind
```

require('./worker');
```

Example [_worker.js_](./examples/node/worker.js):

```js
var a = require('debug')('worker:a')
 , b = require('debug')('worker:b');

function work() {
 a('doing lots of uninteresting work');
 setTimeout(work, Math.random() * 1000);
}

work();

function workb() {
 b('doing some work');
 setTimeout(workb, Math.random() * 2000);
}

workb();
```

The `DEBUG` environment variable is then used to enable these based on space or comma-delimited names.

Here
 are some examples:

<img width="647" alt="screen shot 2017-08-08 at 12 53 04 pm" src="https://user-images.githubusercontent.com/71256/29091703-a6302cdc-7c38-11e7-8304-7c0b3bc600cd.png">
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Windows command prompt notes

CMD

On Windows the environment variable is set using the `set` command.

```cmd
set DEBUG=*,-not_this
```

Example:
```

```cmd
set DEBUG=* & node app.js
```

PowerShell (VS Code default)

PowerShell uses different syntax to set environment variables.

```cmd
$env:DEBUG = "*,-not_this"
```

Example:

```cmd
$env:DEBUG='app';node app.js
```

Then, run the program to be debugged as usual.

npm script example:
```js
 "windowsDebug":
 "@powershell -Command $env:DEBUG='*';node app.js",
```

Namespace Colors

Every debug instance has a color generated for it based on its namespace name.
This helps when visually parsing the debug output to identify which debug instance
a debug line belongs to.

Node.js

In Node.js, colors are enabled when stderr is a TTY. You also _should_ install
the [`supports-color`](https://npmjs.org/supports-color) module alongside debug,
otherwise debug will only use a small handful of basic colors.

<img width="521" src="https://user-images.githubusercontent.com/71256/29092181-47f6a9e6-7c3a-11e7-9a14-1928d8a711cd.png">

Web Browser

Colors are also enabled on "Web Inspectors" that understand the `%c` formatting
option. These are WebKit web inspectors, Firefox ([since version
31](https://hacks.mozilla.org/2014/05/editable-box-model-multiple-selection-sublime-text-keys-much-more-firefox-developer-tools-episode-31/))

and the Firebug plugin for Firefox (any version).

<img width="524"
 src="https://user-images.githubusercontent.com/71256/29092033-b65f9f2e-7c39-11e7-8e32-f6f0d8e865c1.png">

Millisecond diff

When actively developing an application it can be useful to see when the time spent between one `debug()` call and the next. Suppose for example you invoke `debug()` before requesting a resource, and after as well, the "+NNNms" will show you how much time was spent between calls.

<img width="647" src="https://user-images.githubusercontent.com/71256/29091486-fa38524c-7c37-11e7-895f-e7ec8e1039b6.png">

When stdout is not a TTY, `Date#toISOString()` is used, making it more useful for logging the debug information as shown below:

<img width="647" src="https://user-images.githubusercontent.com/71256/29091956-6bd78372-7c39-11e7-8c55-c948396d6edd.png">

Conventions

If you're using this in one or more of your libraries, you _should_ use the name of your library so that developers may toggle debugging as desired without guessing names. If you have more than
 one debuggers you _should_ prefix them with your library name and use ":" to separate features. For example "bodyParser" from Connect would then be "connect:bodyParser". If you append a "*" to the end of your name, it will always be enabled regardless of the setting of the DEBUG environment variable. You can then use it for normal output as well as debug output.

Wildcards

The `*` character may be used as a wildcard. Suppose for example your library has
debuggers named "connect:bodyParser", "connect:compress", "connect:session",
instead of listing all three with
`DEBUG=connect:bodyParser,connect:compress,connect:session`, you may simply do
`DEBUG=connect:*`, or to run everything using this module simply use `DEBUG=*`.

You can also exclude specific debuggers by prefixing them with a "-" character.
For example, `DEBUG=*,-connect:*` would include all debuggers except those
starting with "connect:".

Environment Variables

When running through Node.js, you can set a few environment
 variables that will
change the behavior of the debug logging:

Name	Purpose
`DEBUG`	Enables/disables specific debugging namespaces.
`DEBUG_HIDE_DATE`	Hide date from debug output (non-TTY).
`DEBUG_COLORS`	Whether or not to use colors in the debug output.
`DEBUG_DEPTH`	Object inspection depth.
`DEBUG_SHOW_HIDDEN`	Shows hidden properties on inspected objects.

__Note:__ The environment variables beginning with `DEBUG_` end up being converted into an Options object that gets used with `%o`/`%O` formatters.
See the Node.js documentation for
[`util.inspect()`](https://nodejs.org/api/util.html#util_util_inspect_object_options)
for the complete list.

Formatters

Debug uses [printf-style](https://wikipedia.org/wiki/Printf_format_string) formatting.
Below are the officially supported formatters:

Formatter	Representation
`%O`	Pretty-print an Object on multiple lines.
`%o`	Pretty-print an Object all on a single line.
`%s`	String.
`%d`	Number (both integer and float).
`%j`	JSON. Replaced with the string '[Circular]' if the argument contains circular references.
`%%`	Single percent sign ('%'). This does not consume an argument.

Custom formatters

You can add custom formatters by extending the `debug.formatters` object.
For example, if you wanted to add support for rendering a Buffer as hex with
`%h`, you could do something like:

```js
const createDebug = require('debug')
createDebug.formatters.h = (v) => {
 return v.toString('hex')
}

// elsewhere
const debug = createDebug('foo')
debug('this is hex: %h', new Buffer('hello world'))
//   foo this is hex: 68656c6c6f20776f726c6421 +0ms
```

```

## Browser Support

You can build a browser-ready script using [browserify](https://github.com/substack/node-browserify), or
 just use the [browserify-as-a-service](https://wzrd.in/) [build](https://wzrd.in/standalone/debug@latest), if you don't want to build it yourself.

Debug's enable state is currently persisted by `localStorage`.
Consider the situation shown below where you have `worker:a` and `worker:b`,
and wish to debug both. You can enable this using `localStorage.debug`:

```js
localStorage.debug = 'worker:*'
```

And then refresh the page.

```js
a = debug('worker:a');
b = debug('worker:b');

setInterval(function(){
 a('doing some work');
}, 1000);

setInterval(function(){
 b('doing some work');
}, 1200);
```

Output streams

 By default `debug` will log to stderr, however this can be configured per-namespace by overriding the `log` method:

Example [_stdout.js_](./examples/node/stdout.js):

```js
var debug = require('debug');
var error = debug('app:error');

// by default stderr is used
error('goes to stderr!');
```
```

```
var log = debug('app:log');
// set this namespace to log via console.log
log.log
 = console.log.bind(console); // don't forget to bind to console!
log('goes to stdout');
error('still goes to stderr!');

// set all output to go via console.info
// overrides all per-namespace log settings
debug.log = console.info.bind(console);
error('now goes to stdout via console.info');
log('still goes to stdout, but via console.info now');
```

Extend
You can simply extend debugger
```js
const log = require('debug')('auth');

//creates new debug instance with extended namespace
const logSign = log.extend('sign');
const logLogin = log.extend('login');

log('hello'); // auth hello
logSign('hello'); //auth:sign hello
logLogin('hello'); //auth:login hello
```

Set dynamically

You can also enable debug dynamically by calling the `enable()` method :

```js
let debug = require('debug');

console.log(1, debug.enabled('test'));

debug.enable('test');
console.log(2, debug.enabled('test'));

debug.disable();
console.log(3, debug.enabled('test'));

```

print :
```
1
```

```
 false
2 true
3 false
```

Usage :
`enable(namespaces)`
`namespaces` can include modes separated by a colon and wildcards.

Note that calling `enable()` completely overrides previously set DEBUG variable :

```
$ DEBUG=foo node -e 'var dbg = require("debug"); dbg.enable("bar"); console.log(dbg.enabled("foo"))'
=> false
```

Checking whether a debug target is enabled

After you've created a debug instance, you can determine whether or not it is
enabled by checking the `enabled` property:

```javascript
const debug = require('debug')('http');

if (debug.enabled) {
 // do stuff...
}
```

You can also manually toggle this property to force the debug instance to be
enabled or disabled.

Authors

- TJ Holowaychuk
- Nathan Rajlich
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node-http-proxy

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    "node": true,
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}
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  - "6"
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cache:
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NPM License Checker
==========

[![Build Status](https://www.travis-ci.org/davglass/license-checker.svg?branch=master)](https://www.travis-ci.org/davglass/license-checker)

*As of v17.0.0 the `failOn` and `onlyAllow` arguments take semicolons as delimeters instead of commas. Some license names contain
commas and it messed with the parsing*

Ever needed to see all the license info for a module and its dependencies?

It's this easy:

```shell
npm install -g license-checker

mkdir foo
cd foo
npm install yui-lint
```

license-checker
```

You should see something like this:

```
cli@0.4.3
  repository: http://github.com/chriso/cli
  licenses: MIT
glob@3.1.14
  repository: https://github.com/isaacs/node-glob
  licenses: UNKNOWN
graceful-fs@1.1.14
  repository: https://github.com/isaacs/node-graceful-fs
  licenses: UNKNOWN
inherits@1.0.0
  repository: https://github.com/isaacs/inherits
  licenses: UNKNOWN
jshint@0.9.1
  licenses: MIT
lru-cache@1.0.6
  repository: https://github.com/isaacs/node-lru-cache
   licenses: MIT
lru-cache@2.0.4
  repository: https://github.com/isaacs/node-lru-cache
  licenses: MIT
minimatch@0.0.5
  repository: https://github.com/isaacs/minimatch
  licenses: MIT
minimatch@0.2.9
  repository: https://github.com/isaacs/minimatch
  licenses: MIT
sigmund@1.0.0
  repository: https://github.com/isaacs/sigmund
  licenses: UNKNOWN
yui-lint@0.1.1
   licenses: BSD
      repository: http://github.com/yui/yui-lint
```

An asterisk next to a license name means that it was deduced from
an other file than package.json (README, LICENSE, COPYING, ...)
You could see something like this:

```
debug@2.0.0
   repository: https://github.com/visionmedia/debug
   licenses: MIT*
```
```

```

Options
-------

* `--production` only show production dependencies.
* `--development` only show development dependencies.
* `--start [path of the initial json to look for]`
* `--unknown` report guessed licenses as unknown licenses.
* `--onlyunknown` only list
 packages with unknown or guessed licenses.
* `--json` output in json format.
* `--csv` output in csv format.
* `--csvComponentPrefix` prefix column for component in csv format.
* `--out [filepath]` write the data to a specific file.
* `--customPath` to add a custom Format file in JSON
* `--exclude [list]` exclude modules which licenses are in the comma-separated list from the output
* `--relativeLicensePath` output the location of the license files as relative paths
* `--summary` output a summary of the license usage',
* `--failOn [list]` fail (exit with code 1) on the first occurrence of the licenses of the semicolon-separated list
* `--onlyAllow [list]` fail (exit with code 1) on the first occurrence of the licenses not in the semicolon-seperated list
* `--packages [list]` restrict output to the packages (package@version) in the semicolon-seperated list
* `--excludePackages [list]` restrict output to the packages (package@version) not in the semicolon-seperated list
* `--excludePrivatePackages`
 restrict output to not include any package marked as private
* `--direct look for direct dependencies only`

Exclusions
----------
A list of licenses is the simplest way to describe what you want to exclude.

You can use valid [SPDX identifiers](https://spdx.org/licenses/).
You can use valid SPDX expressions like `MIT OR X11`.
You can use non-valid SPDX identifiers, like `Public Domain`, since `npm` does
support some license strings that are not SPDX identifiers.

Examples
--------

```
license-checker --json > /path/to/licenses.json
license-checker --csv --out /path/to/licenses.csv
license-checker --unknown
license-checker --customPath customFormatExample.json
license-checker --exclude 'MIT, MIT OR X11, BSD, ISC'
license-checker --packages 'react@16.3.0;react-dom@16.3.0;lodash@4.3.1'
license-checker --excludePackages 'internal-1;internal-2'
license-checker --onlyunknown
```
```

```

Custom format
----------

The `--customPath` option can be used with CSV to specify the columns.
 Note that
the first column, `module_name`, will always be used.

When used with JSON format, it will add the specified items to the usual ones.

The available items are the following:
- name
- version
- description
- repository
- publisher
- email
- url
- licenses
- licenseFile
- licenseText
- licenseModified

You can also give default values for each item.
See an example in [customFormatExample.json](customFormatExample.json).

Requiring
---------


```js
var checker = require('license-checker');

checker.init({
  start: '/path/to/start/looking'
}, function(err, packages) {
  if (err) {
      //Handle error
  } else {
      //The sorted package data
      //as an Object
  }
});
```

Debugging

```

license-checker uses [debug](https://www.npmjs.com/package/debug) for internal logging. Theres two internal markers:

* `license-checker:error` for errors
* `license-checker:log` for non-errors

Set the `DEBUG` environment variable to one of these to see debug output:

```shell
$
 export DEBUG=license-checker*; license-checker
scanning ./yui-lint
cli@0.4.3
  repository: http://github.com/chriso/cli
  licenses: MIT
# ...
```

How Licenses are Found

We walk through the `node_modules` directory with the [`read-installed`](https://www.npmjs.org/package/read-installed) module. Once we gathered a list of modules we walk through them and look at all of their `package.json`'s, We try to identify the license with the [`spdx`](https://www.npmjs.com/package/spdx) module to see if it has a valid SPDX license attached. If that fails, we then look into the module for the following files: `LICENSE`, `LICENCE`, `COPYING`, & `README`.

If one of the those files are found (in that order) we will attempt to parse the license data from it with a list of known license texts. This will be shown with the `*` next to the name of the license to show that we "guessed" at it.
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spdx-license-ids

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A list of [SPDX license](https://spdx.org/licenses/) identifiers

Installation

[Download JSON directly](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/index.json), or [use](https://docs.npmjs.com/cli/install) [npm](https://docs.npmjs.com/about-npm/):

```
npm install spdx-license-ids
```

[Node.js](https://nodejs.org/) API

require('spdx-license-ids')

Type: `string[]`

All license IDs except for the currently deprecated ones.

```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'ADSL', 'AFL-1.1', 'AFL-1.2', 'AFL-2.0', 'AFL-2.1', 'AFL-3.0', 'AGPL-1.0-only', ...]

ids.includes('BSD-3-Clause'); //=> true
ids.includes('CC-BY-1.0'); //=>
 true

ids.includes('GPL-3.0'); //=> false
```

require('spdx-license-ids/deprecated')

Type: `string[]`

Deprecated license IDs.

```javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
//=> ['AGPL-1.0', 'AGPL-3.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', 'GPL-2.0', ...]

deprecatedIds.includes('BSD-3-Clause'); //=> false
deprecatedIds.includes('CC-BY-1.0'); //=> false

deprecatedIds.includes('GPL-3.0'); //=> true
```

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```
reporting:
  reports:
    - lcov
    - text
    - text-summary
check:
  global:
    statements: 95
    lines: 95
    branches: 90
    functions: 100
```

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    "mocha": true
  }
}
```

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Repository: jonschlinkert/fill-range

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Repository: gulpjs/glob-parent

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hash.js
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Repository: git@github.com:indutny/hash.js

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inherits
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magic-string
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public domain
validate-npm-package-license
==========

Give me a string and I'll tell you if it's a valid npm package license string.

```javascript
var valid = require('validate-npm-package-license');
```

SPDX license identifiers are valid license strings:

```javascript

var assert = require('assert');
var validSPDXExpression = {
 validForNewPackages: true,
 validForOldPackages: true,
 spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
```
The function will return a warning and suggestion for nearly-correct license identifiers:

```javascript
```

```
assert.deepEqual(
 valid('Apache 2.0'),
 {
   validForOldPackages: false,
   validForNewPackages: false,
   warnings: [
     'license should be ' +
     'a valid SPDX license expression (without "LicenseRef"), ' +
     '"UNLICENSED", or ' +
      '"SEE LICENSE IN <filename>"',
     'license is similar to the valid expression "Apache-2.0"'
   ]
 }
);
```

SPDX expressions are valid, too ...

```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
 valid('(GPL-3.0-only OR BSD-2-Clause)'),
 validSPDXExpression
);
```

... except if they contain `LicenseRef`:

```javascript
var warningAboutLicenseRef = {
 validForOldPackages: false,
 validForNewPackages: false,
 spdx: true,
 warnings: [
   'license should be ' +
   'a valid SPDX license expression (without "LicenseRef"), ' +
   '"UNLICENSED", or ' +
   '"SEE LICENSE IN <filename>"',
 ]
};

assert.deepEqual(
 valid('LicenseRef-Made-Up'),
 warningAboutLicenseRef
);

assert.deepEqual(
 valid('(MIT OR LicenseRef-Made-Up)'),
```

```
 warningAboutLicenseRef
);
```

If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```javascript
assert.deepEqual(
 valid('SEE
 LICENSE IN LICENSE.txt'),
 {
   validForNewPackages: true,
   validForOldPackages: true,
   inFile: 'LICENSE.txt'
 }
);

assert.deepEqual(
 valid('SEE LICENSE IN license.md'),
 {
   validForNewPackages: true,
   validForOldPackages: true,
   inFile: 'license.md'
 }
);
```

If there aren't any licensing terms, use `UNLICENSED`:

```javascript
var unlicensed = {
 validForNewPackages: true,
 validForOldPackages: true,
 unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);
```

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 "AGPL-3.0",
 "GFDL-1.1",
 "GFDL-1.2",
 "GFDL-1.3",

"GPL-1.0",
"GPL-2.0",
"GPL-2.0-with-GCC-exception",
"GPL-2.0-with-autoconf-exception",
"GPL-2.0-with-bison-exception",
"GPL-2.0-with-classpath-exception",
"GPL-2.0-with-font-exception",
"GPL-3.0",
"GPL-3.0-with-GCC-exception",
"GPL-3.0-with-autoconf-exception",
"LGPL-2.0",
"LGPL-2.1",
"LGPL-3.0",
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{
"name": "",
"version": "",
"description": "",
"licenses": "",
"copyright": "",
"licenseFile": "none",
"licenseText": "none",
"licenseModified": "no"
}
Change Log

v25.0.1 (2019/01/10 19:29 +00:00)
- [f1c835b](https://github.com/davglass/license-checker/commit/f1c835b991b65dc928eafe64c29b73df9e703169) Updated readme with new args (@davglass)
- [ada667f](https://github.com/davglass/license-checker/commit/ada667f28e8ef4e96b5b6059fe05541d05ca936c) changelog (@davglass)
- [7813f0d](https://github.com/davglass/license-checker/commit/7813f0db3b51f7cc4cd37d8e7b4670f9005fed06) contrib (@davglass)

v25.0.0 (2019/01/10 15:09 +00:00)
- [cdb77d9](https://github.com/davglass/license-checker/commit/cdb77d9a2b36cd87503f32265a0ee388b25c24ae) 25.0.0 (@davglass)
- [b897345](https://github.com/davglass/license-checker/commit/b89734549bc05fb5e143083fdf6d3959d87eb2b8) [Fixes #136] Document --start option and add the depth option for looking into root dependencies or infinitely (@davglass)
- [#185](https://github.com/davglass/license-checker/pull/185) Merge pull request #185 from theboolean/fix/exclude-packages-and-private (@theboolean)
- [#184](https://github.com/davglass/license-checker/pull/184)

Merge pull request #184 from theboolean/docs/fix-typo (@theboolean)
- [987a60f](https://github.com/davglass/license-checker/commit/987a60fbb58052cf36d5a80e6252e81136bb1dd8) changes 24.1.0 (@davglass)

v24.1.0 (2018/12/14 20:54 +00:00)
- [18ab8a1](https://github.com/davglass/license-checker/commit/18ab8a1eb478d1354429ca4318c1df3de3e4cbb1) 24.1.0 (@davglass)
- [1dca0f6](https://github.com/davglass/license-checker/commit/1dca0f616aebdef2d398c130a2a4f86c2b4e88c8) Changelog (@davglass)
- [#188](https://github.com/davglass/license-checker/pull/188) Fix for #153: remove deprecated package 'spdx' (#188) (@rogierschouten)
- [d1d34b1](https://github.com/davglass/license-checker/commit/d1d34b1a8894987807419c093c3ec10b4f06db3d) Fix typo in package.json description (@theboolean)
- [f5c9008](https://github.com/davglass/license-checker/commit/f5c9008a6d20b503e21c0d8130e52be526a5bfe8) Fix: Allow excluding packages and private packages together
(@theboolean)
- [98c4dc6](https://github.com/davglass/license-checker/commit/98c4dc670fdebb6e58b62b38ebcb12302e5b1db5) changes (@davglass)

v24.0.1 (2018/10/11 16:40 +00:00)
- [d72eae8](https://github.com/davglass/license-checker/commit/d72eae8bcb80d8582e6d12c5e2664e9c19135709) 24.0.1 (@davglass)
- [9433e64](https://github.com/davglass/license-checker/commit/9433e640ea9f629aad5f00c224a9f61026b8116d) [Fixes #181] - Removed extra line break with --cvs (@davglass)
- [65baa28](https://github.com/davglass/license-checker/commit/65baa28f532f87ebb75a32578c7ac5837806d12f) contrib and changes (@davglass)

v24.0.0 (2018/10/09 21:12 +00:00)
- [84d64a2](https://github.com/davglass/license-checker/commit/84d64a28fa971c3bfb20b9e9de27cafbe6e8481b) 24.0.0 (@davglass)
- [#180](https://github.com/davglass/license-checker/pull/180) Feature: Exclude Private Packages (#180) (Jonny Reeves)
- [#179](https://github.com/davglass/license-checker/pull/179) Merge pull request #179 from jonny-improbable/fix/fix-strict-checks
(@jonny-improbable)
- [179077d](https://github.com/davglass/license-checker/commit/179077d079acbcd0183aa6691cfe5c2ec0f93f07) Fixes 176, Packages are not ignored when using --onlyAllow and --excludePackages. (@jonny-improbable)
- [890ca17](https://github.com/davglass/license-checker/commit/890ca17d179bc43a6cb7cff962d69d1521dc9ac2) changelog (@davglass)

v23.0.0 (2018/10/09 14:37 +00:00)
- [f243287](https://github.com/davglass/license-checker/commit/f243287fbce6da33838a226ddfe8c412535390d4) 23.0.0 (@davglass)
- [#178](https://github.com/davglass/license-checker/pull/178) Merge pull request #178 from jonny-improbable/fix/filtering (@jonny-improbable)
- [#175](https://github.com/davglass/license-checker/pull/175) Merge pull request #175 from jonny-improbable/patch-1 (@jonny-improbable)
- [f2c6611](https://github.com/davglass/license-checker/commit/f2c6611d6c68e50b2b6f56260026837e7167f44a)

Fixes #177, --packages and --excludePackages filtering (@jonny-improbable)
- [0a598df](https://github.com/davglass/license-checker/commit/0a598df55c3ec33803ef33be07cc47a910eee961) Improve --onlyAllow violation Error
- [ee723af](https://github.com/davglass/license-checker/commit/ee723af79889a4d98ed067494a58f6aa41a44ac7) changes (@davglass)

v22.0.0 (2018/10/08 19:00 +00:00)
- [bd398c3](https://github.com/davglass/license-checker/commit/bd398c3bce0279699c9aad1dc4b592f398a75766) 22.0.0 (@davglass)
- [#172](https://github.com/davglass/license-checker/pull/172) Merge pull request #172 from fzaninotto/exclude-packages (@fzaninotto)
- [014fd96](https://github.com/davglass/license-checker/commit/014fd9613fe5460e0b7a0fc118a659a337e25e2c) added changes (@davglass)

v21.0.0 (2018/10/06 13:24 +00:00)
- [d75fe43](https://github.com/davglass/license-checker/commit/d75fe43d61a9d5b6696d71a663e25a53fd3d44f7) 21.0.0 (@davglass)
- [05cb221](https://github.com/davglass/license-checker/commit/05cb221359de4ffe1039f586cd9e8fb7cb9d6398) [Fixes #174] - Moved private and unknown detection above filtering (@davglass)
- [b1d5700](https://github.com/davglass/license-checker/commit/b1d570088236dfb90253bdac27763523b2e74ffb) Add an excludePackages option (@fzaninotto)
- [231bd3f](https://github.com/davglass/license-checker/commit/231bd3f2412507be1d702ad100b23c1b1fe93602) updated readme (@davglass)
- [6c61a7b](https://github.com/davglass/license-checker/commit/6c61a7bd102466c702065d42706392c11717cc1d) changelog (@davglass)

v20.2.0 (2018/07/30 13:49 +00:00)
- [28dc521](https://github.com/davglass/license-checker/commit/28dc5218dec3340778bd801593275ad1b222e53f) 20.2.0 (@davglass)
- [#169](https://github.com/davglass/license-checker/pull/169) Merge pull request #169 from codepunkt/restrict_packages (@codepunkt)
- [5e4b274](https://github.com/davglass/license-checker/commit/5e4b274e955485fb2aba37e65fec913b8042f38d) refactor: restore previous code style (@codepunkt)
- [ed25d68](https://github.com/davglass/license-checker/commit/ed25d6829602793e13233d3da2d97b92ee2044c6) test: add test for --packages flag (@codepunkt)
- [0f53922](https://github.com/davglass/license-checker/commit/0f53922088be0b0dfd4f8db7ea884b53d0137e45) feat: allow restricting output to specified packages (@codepunkt)
- [5f63f87](https://github.com/davglass/license-checker/commit/5f63f8766a17e589b57db99bda4eb54d91b85b77) changes and contrib (@davglass)

v20.1.0 (2018/06/07 14:33 +00:00)
- [970882a](https://github.com/davglass/license-checker/commit/970882a09b345c7f32496431e5ca4c069ad7e320) 20.1.0 (@davglass)
- [#165](https://github.com/davglass/license-checker/pull/165) Merge pull request #165 from santiagocanti/fix-exclude-not-adding-custom-licenses (@santiagocanti)
- [89e48a9](https://github.com/davglass/license-checker/commit/89e48a9d3d0c9f2e48bfcee0dc3563ce4b652e22) Fix exclude not including custom licenses (@santiagocanti)

v20.0.0 (2018/05/17 14:14 +00:00)
- [0e89310](https://github.com/davglass/license-checker/commit/0e8931021df777cb401d9a332fa2a8c9a2c49eb2) 20.0.0 (@davglass)
- [c36a5c9](https://github.com/davglass/license-checker/commit/c36a5c99bb4f68816e4e19cad5090ba3c7ba67a4) changes (@davglass)
- [ccb66f3](https://github.com/davglass/license-checker/commit/ccb66f3410a4589e6f2b7cf1c3aefb1446bab460) contributors (@davglass)
- [#156](https://github.com/davglass/license-checker/pull/156) Merge pull request #156 from zodiac403/z4/copyright (@zodiac403)
- [56414b4](https://github.com/davglass/license-checker/commit/56414b4a67cbb25bcc8eb8cc05b0ac712b677dc2) Add unit test for Copyright statement. (@zodiac403)
- [3eafe24](https://github.com/davglass/license-checker/commit/3eafe249ad662af727a9b7472f7ad6c1b9a73ade) fixing test coverage with switch to nyc from istanbul (@davglass)

v19.0.0 (2018/04/30 14:51 +00:00)
- [7e83a06](https://github.com/davglass/license-checker/commit/7e83a069d23c104c3cd8257eb64666704ecca465) 19.0.0 (@davglass)
- [e5eb49b](https://github.com/davglass/license-checker/commit/e5eb49bcb5546dbc681f736f159d63908cd39ce9) upgrading packages (@davglass)
- [442aee6](https://github.com/davglass/license-checker/commit/442aee69b5d44e47bfd2e441c4e1f86d387e49c6) Changlog (@davglass)

v18.1.0 (2018/04/30 14:16 +00:00)
- [82ec91b](https://github.com/davglass/license-checker/commit/82ec91bb02e6bf998164b62b4aa827198156ad4c) 18.1.0 (@davglass)
- [4b546d3](https://github.com/davglass/license-checker/commit/4b546d38ce91bcbe8d21e7bc53e44635b0447fc2) contrib (@davglass)
- [#155](https://github.com/davglass/license-checker/pull/155) Merge pull request #155 from ktmouk/supress-path-property (@ktmouk)
- [#160](https://github.com/davglass/license-checker/pull/160) Merge pull request #160 from helio-frota/pr (@helio-frota)
- [8b068f2](https://github.com/davglass/license-checker/commit/8b068f25fe910d087c06e29312bc250b49aba4c7) fix: Updating debug dependency to fix a security warning (@helio-frota)
- [040dd94](https://github.com/davglass/license-checker/commit/040dd9468261966c5c40e4a418aa9ba8f716c3a2) Copyright statement: Handle multi-line stagements (@zodiac403)
- [0480750](https://github.com/davglass/license-checker/commit/04807506d61aa1d704e8b51da3a289baa025b510) Fix layout issue. (@zodiac403)
- [9cb45f2](https://github.com/davglass/license-checker/commit/9cb45f2b9ce2c1142c0d1f556f01f7d754737a4c) Link with customFormat (@zodiac403)
- [f83aaae](https://github.com/davglass/license-checker/commit/f83aaae85ad4cc2e9880802951dfacbc86dc2d7f) Merge branch 'z4/copyright' of https://github.com/zodiac403/license-checker into z4/copyright (@zodiac403)
- [7536af9](https://github.com/davglass/license-checker/commit/7536af935d91078657f0e169ed82383f099607f6) Trim output. (@zodiac403)
- [8716845](https://github.com/davglass/license-checker/commit/87168456cae35263882bd2b6d6d0081f228b6b66)

Suppress path property (@ktmouk)
- [be57ee8](https://github.com/davglass/license-checker/commit/be57ee8f76c8aada0d227913b7d0e12aca0dc640) Add example for (c) statement. (@zodiac403)
- [fe17f7c](https://github.com/davglass/license-checker/commit/fe17f7c76dbdae0cbf689a0cd260a746698f3281) Parse (c) statements from LICENSE file. (@zodiac403)
- [#149](https://github.com/davglass/license-checker/pull/149) Merge pull request #149 from honzajavorek/patch-1 (@honzajavorek)
- [955bbf6](https://github.com/davglass/license-checker/commit/955bbf6070ffcd9f0d01ef37bb84ffbac65e007b) remove the old status badge (@honzajavorek)

v18.0.0 (2018/03/20 12:30 +00:00)
- [315de0b](https://github.com/davglass/license-checker/commit/315de0b1a881cf8737c3c0131c217c4820df13a8) 18.0.0 (@davglass)
- [76655d5](https://github.com/davglass/license-checker/commit/76655d59bad95c2e52724aaa3a0cf036f0e60bd6) changelog (@davglass)
- [c8aa823](https://github.com/davglass/license-checker/commit/c8aa823342b7a250d510582c8a03dd76af50bd9c) added contributors (@davglass)
- [#147](https://github.com/davglass/license-checker/pull/147) Merge pull request #147 from honzajavorek/honzajavorek/license-files (@honzajavorek)
- [#148](https://github.com/davglass/license-checker/pull/148) Merge pull request #148 from honzajavorek/honzajavorek/use-stderr (@honzajavorek)
- [#146](https://github.com/davglass/license-checker/pull/146) Merge pull request #146 from honzajavorek/honzajavorek/fix-e2e-test (@honzajavorek)
- [#145](https://github.com/davglass/license-checker/pull/145) Merge pull request #145 from honzajavorek/honzajavorek/drop-4-add-8 (@honzajavorek)
- [0105f7d](https://github.com/davglass/license-checker/commit/0105f7dcf01a67b8f7c34371d95a1d76b191d5ed) use stderr where applicable (@honzajavorek)
- [0ff8d91](https://github.com/davglass/license-checker/commit/0ff8d917c659446256074c0940ae43dd84930233) add support for LICENSE-MIT and similar (@honzajavorek)
- [f02589e](https://github.com/davglass/license-checker/commit/f02589e62c0ba8221081b8b1799d561c3ff20500) isolate and test the license file detection (@honzajavorek)
- [f0da0fe](https://github.com/davglass/license-checker/commit/f0da0fe2ab28f1658e4ed504bb034fb1536b9ff8) add warning about commas and test it (@honzajavorek)
- [3db0b6f](https://github.com/davglass/license-checker/commit/3db0b6f05a68ccfff4181503ca87edce4ef10cd7) fix e2e test (transition from comma delimiter to semicolon) (@honzajavorek)
- [cec3b73](https://github.com/davglass/license-checker/commit/cec3b73505ac40a2dca211e78427624d009585dc) let Travis CI to cache node_modules (@honzajavorek)
- [8cea3dc](https://github.com/davglass/license-checker/commit/8cea3dccf1d185dc3ae3f37f44a82d7e123a1988) add Travis CI badge to the README (@honzajavorek)
- [8f59c3b](https://github.com/davglass/license-checker/commit/8f59c3b494f69b1d51535bcff80c0e006d0ef6bb) drop support for node 4, add support for node 8 (@honzajavorek)

v17.0.0 (2018/03/19 13:26 +00:00)
- [cd5fdd8](https://github.com/davglass/license-checker/commit/cd5fdd8e94267d7d8f29e86dd9cbf8b694c037f1) 17.0.0 (@davglass)
- [13c11ee](https://github.com/davglass/license-checker/commit/13c11eeea1b1a3e012de62536100fce91c355c8b) updated readme and help text (@davglass)

- [#144](https://github.com/davglass/license-checker/pull/144)
 Merge pull request #144 from creising/parser-fixes (@creising)
- [d2ab8df](https://github.com/davglass/license-checker/commit/d2ab8df30bc3e6b38b321a1e12a70cf477a69eb0) added support for lic with commas and spaces (@creising)
- [2075208](https://github.com/davglass/license-checker/commit/20752083c6029823fb389a30a1ed4d7d90fa9297) contrib and changelog (@davglass)
- [6c5274c](https://github.com/davglass/license-checker/commit/6c5274c6064d318844cf36185dea395e0893ff08) [fixes #132] - Fixed issue with asFiles and path issues (@davglass)
- [a46c448](https://github.com/davglass/license-checker/commit/a46c4483f872c3db9498a65b7ae3dc6d8164de0a) 16.0.0 (@davglass)
- [38d63e2](https://github.com/davglass/license-checker/commit/38d63e2c2c3fd6c11012fb69b1470b2ba06d5554) [fixes #128] - Added --onlyAllow option (@davglass)

v16.0.0 (2018/01/18 15:02 +00:00)
- [#131](https://github.com/davglass/license-checker/pull/131) Merge pull request #131
 from mischah/patch-1 (@mischah)
- [e341d17](https://github.com/davglass/license-checker/commit/e341d1701092be87309ec4b51fa6eb23f7e9a589) Fix typo in Readme (@mischah)
- [cc38a20](https://github.com/davglass/license-checker/commit/cc38a2047bf41b6fe25266114a13a9bf54133e04) updated license text (@davglass)

v15.0.0 (2017/10/19 14:24 +00:00)
- [a9bd001](https://github.com/davglass/license-checker/commit/a9bd001b649bfa186bae5598bb8c67ff56383599) 15.0.0 (@davglass)
- [db621fa](https://github.com/davglass/license-checker/commit/db621fa6beeff870699c33be484bf49816ab7866) changelog (@davglass)
- [#124](https://github.com/davglass/license-checker/pull/124) Merge pull request #124 from neverendingqs/app/stricterguesses (@neverendingqs)
- [#126](https://github.com/davglass/license-checker/pull/126) app - output now includes path to dependency. (#126) (@neverendingqs)
- [9f68b29](https://github.com/davglass/license-checker/commit/9f68b29bbfa73278cdab92e221be6ccbab191932) app - strengthening license
 guessing; resolves #123. (@neverendingqs)
- [3061c87](https://github.com/davglass/license-checker/commit/3061c87363f3416d86ca6c2ba7b2bfa77def0e73) changes (@davglass)

v14.0.0 (2017/08/28 13:22 +00:00)
- [b2a4403](https://github.com/davglass/license-checker/commit/b2a440309c1537c52e5c5a2106f11e72d5b784ec) 14.0.0 (@davglass)
- [#122](https://github.com/davglass/license-checker/pull/122) Added --failOn [list] mode (#122) (@tobilg)

v13.1.0 (2017/08/25 15:00 +00:00)
- [ee25265](https://github.com/davglass/license-checker/commit/ee25265f92fe0d3b603da6b8c88d175e0d1f2fa5) 13.1.0 (@davglass)
- [5bb9a17](https://github.com/davglass/license-checker/commit/5bb9a17f89d7e180b3a9d929ebc073135262bd2f) changes (@davglass)
- [b1e0392](https://github.com/davglass/license-checker/commit/b1e0392afa4b511b7c532125cd3165a828d3d4e3) added contrib (@davglass)

- [#121](https://github.com/davglass/license-checker/pull/121) Add `--summary` mode to show a summary with counts of the used licenses (#121)
 (@tobilg)
- [#119](https://github.com/davglass/license-checker/pull/119) Fix minor spelling mistakes (#119) (@tobiasbueschel)
- [#118](https://github.com/davglass/license-checker/pull/118) Minor readme text improvements (#118) (@peteruithoven)
- [d2bc5ea](https://github.com/davglass/license-checker/commit/d2bc5ea91ab50becea91d5f0f050955fe9a6ac59) added license parsing info to README (@davglass)
- [3e9d320](https://github.com/davglass/license-checker/commit/3e9d320acb2e9f14297d6a4355680f34a9b0609d) changes (@davglass)

v13.0.3 (2017/08/04 17:15 +00:00)
- [2caf76b](https://github.com/davglass/license-checker/commit/2caf76be7f2849e153ee28410f3b7a41df3283b5) 13.0.3 (@davglass)
- [fadddc8](https://github.com/davglass/license-checker/commit/fadddc895ef9c6f182e2283c5605a8c1d8fa8a25) [fixes #117] fixed minor URL parsing (@davglass)
- [e58a868](https://github.com/davglass/license-checker/commit/e58a868268aefd97d735b364bd87d03140d76482) changes (@davglass)

v13.0.2 (2017/07/18 16:24 +00:00)
-
 [2c712b7](https://github.com/davglass/license-checker/commit/2c712b7c7e6efe916d60f3ef3125f7f019c46d59) 13.0.2 (@davglass)
- [ef812c1](https://github.com/davglass/license-checker/commit/ef812c1168901d08b97dbd450a64ca03bb7062ad) [fixes #114] - Custom URL/File parsing skipped if file found on disk (@davglass)

v13.0.1 (2017/07/17 12:48 +00:00)
- [a1bf8f1](https://github.com/davglass/license-checker/commit/a1bf8f152b100d81b44757b3b7e141df6a971c44) 13.0.1 (@davglass)
- [e6d0c89](https://github.com/davglass/license-checker/commit/e6d0c893b8a86e12493f7a5c22fd74ef26267994) contrib & changes (@davglass)
- [#113](https://github.com/davglass/license-checker/pull/113) Use LICENSE file in preference to README (#113) (@ibeucaly)
- [6b7f79f](https://github.com/davglass/license-checker/commit/6b7f79f654e21903ea37e4391fba3601ece32e90) changes (@davglass)

v13.0.0 (2017/07/14 12:49 +00:00)
- [dd9e880](https://github.com/davglass/license-checker/commit/dd9e880abd234d683d8c1e57e7a5f889c9156de4)
 13.0.0 (@davglass)
- [051b20b](https://github.com/davglass/license-checker/commit/051b20b0c4b35f223f724705a0025dafc809373f) cleaned up some tests (@davglass)
- [#110](https://github.com/davglass/license-checker/pull/110) FEATURE: Recognise some custom licenses by file or url (#110) (@dancrumb)
- [#111](https://github.com/davglass/license-checker/pull/111) Resolves #60 (#111) Adding support for GPL and LGPL (@dancrumb)
- [#109](https://github.com/davglass/license-checker/pull/109) FEATURE: Improve license exclusion (#109) (@dancrumb)

- [#108](https://github.com/davglass/license-checker/pull/108) FEATURE: Detect private modules and report them as UNLICENSED (#108) (@dancrumb)

v12.1.0 (2017/07/12 16:48 +00:00)
- [dc944e5](https://github.com/davglass/license-checker/commit/dc944e54d55d77b0ef6b6321d9abee847662ccb8) 12.1.0 (@davglass)
- [d415c58](https://github.com/davglass/license-checker/commit/d415c580b04bc5eefa592dc9f9a0a31b244c1bd3) updated contrib and changes (@davglass)
- [#107](https://github.com/davglass/license-checker/pull/107) Merge pull request #107 from dancrumb/feature/support-for-public-domain-licenses (@dancrumb)
- [0c55770](https://github.com/davglass/license-checker/commit/0c55770294167161c48b79cc82a15a6545154a87) FEATURE: Add support for Public Domain licenses (@dancrumb)

v12.0.0 (2017/07/05 13:33 +00:00)
- [8b74fa1](https://github.com/davglass/license-checker/commit/8b74fa1fe3b5edb0d217aa3ce86f4662eb024621) 12.0.0 (@davglass)
- [4f3367c](https://github.com/davglass/license-checker/commit/4f3367c2bf2e9713a6cccd11341f7f4fa70ed400) changes & contrib (@davglass)
- [#106](https://github.com/davglass/license-checker/pull/106) Merge pull request #106 from helio-frota/licensefile-readme (@helio-frota)
- [a229507](https://github.com/davglass/license-checker/commit/a2295073d0178dca1b88e85ea8f52c21d35e52fc) src: the README is added as licenseFile (@helio-frota)
- [b59d90d](https://github.com/davglass/license-checker/commit/b59d90d8705f6f728c817b89936f95097d26857b) changes & contrib (@davglass)

v11.0.0 (2017/05/30 13:33 +00:00)
- [258df10](https://github.com/davglass/license-checker/commit/258df102da484943088da8e0b6160b80c0e703cd) 11.0.0 (@davglass)
- [#102](https://github.com/davglass/license-checker/pull/102) Merge pull request #102 from xswordsx/multiple-licenses (@xswordsx)
- [c5c8b0f](https://github.com/davglass/license-checker/commit/c5c8b0f408f2a26259a7b1109f7cc135ed5bf9c4) Check for SPDX-compatible licenses (@xswordsx)

v10.1.0 (2017/05/25 16:16 +00:00)
- [b52a16d](https://github.com/davglass/license-checker/commit/b52a16d0ba414e7287f82325dd65619cd76afdd1) 10.1.0 (@davglass)
- [f911a99](https://github.com/davglass/license-checker/commit/f911a9919033254945ecbbf69362cb171436688e) contrib & changes (@davglass)
- [#100](https://github.com/davglass/license-checker/pull/100) Suppress JSON properties with custom format (#100) (@tbbstny)
- [ed5b3ab](https://github.com/davglass/license-checker/commit/ed5b3ab50825f0be032958f8233dd3000ee98e85) changelog (@davglass)

v10.0.0 (2017/05/17 13:51 +00:00)
- [b2c2283](https://github.com/davglass/license-checker/commit/b2c2283cf5a937e64a07ab200ec2379e481903b6) 10.0.0 (@davglass)
- [a0406ac](https://github.com/davglass/license-checker/commit/a0406ac2c7a0b1037ca31b47e36d316b9c088938) [fixes #96] - do not replace newline, etc in licenses for exporting to json/markdown (@davglass)

- [98a03fa](https://github.com/davglass/license-checker/commit/98a03fa700ef6d038cc2f9104ea5cf17c82a10ad) [fixes #97] - Added a newline to the output file (@davglass)
- [#98](https://github.com/davglass/license-checker/pull/98) Merge pull request #98 from davglass/eslint (@davglass)
- [10fe441](https://github.com/davglass/license-checker/commit/10fe441a2e70e549e57f7da99d2287fc55355500) moved to eslint (@davglass)
- [f82b535](https://github.com/davglass/license-checker/commit/f82b535d3b7f152fa00bb4680e94af18d1c1421d) changelog (@davglass)

v9.0.3 (2017/04/10 13:42 +00:00)
- [a0fd60f](https://github.com/davglass/license-checker/commit/a0fd60f972b7c84a32117b3dfc1f95bfa2282f27) 9.0.3 (@davglass)
- [#95](https://github.com/davglass/license-checker/pull/95) Merge pull request #95 from abtris/prefix-component (@abtris)
- [3b80272](https://github.com/davglass/license-checker/commit/3b80272a217687c2f0cd7a0c1e98775064d820ff) test: add test for csvComponentPrefix (@abtris)
- [d593554](https://github.com/davglass/license-checker/commit/d593554c1a6b4f7e004e4a23fca88cb7294f8351) feat: add support for csvComponentPrefix (@abtris)
- [5b2eea1](https://github.com/davglass/license-checker/commit/5b2eea12d8c54068a01a2cf1fd9bdeca8c1f0fa2) added contrib (@davglass)

v9.0.2 (2017/04/05 14:55 +00:00)
- [f24833b](https://github.com/davglass/license-checker/commit/f24833bce846f608ec3d8c327d335da56c42b895) 9.0.2 (@davglass)
- [#94](https://github.com/davglass/license-checker/pull/94) Merge pull request #94 from timbru31/fix-comma-exclude (@timbru31)
- [2d08a77](https://github.com/davglass/license-checker/commit/2d08a77030362c7ab03ac12358dd524c0be47eee) contrib & changelog (@davglass)

v9.0.1 (2017/04/05 13:09 +00:00)
- [9f1a1f3](https://github.com/davglass/license-checker/commit/9f1a1f32194a9bb312858f624e303af1ad4f61ca) 9.0.1 (@davglass)
- [c99f612](https://github.com/davglass/license-checker/commit/c99f612fee22d9eb03db0ad41e7918fbaf6e8ed9) added test for licenseText (@davglass)
- [#93](https://github.com/davglass/license-checker/pull/93) Merge pull request #93 from abtris/licenseText-just-in-customFormat (@abtris)
- [8d7fb2f](https://github.com/davglass/license-checker/commit/8d7fb2f85fc585d8e75ab1459e0b0cef43993ba4) fix: allow escaped commas in exclude string (@timbru31)
- [da4d73c](https://github.com/davglass/license-checker/commit/da4d73c0feb22f50ddbce54364eef5b7bcc7f1a4) test: fix test, remove check from non custom format (@abtris)
- [dcd3b59](https://github.com/davglass/license-checker/commit/dcd3b59bb9457df354fa3095189235b6e030df1a) feat: add licenseText
 only for customFormat
- [4e02eca](https://github.com/davglass/license-checker/commit/4e02eca6e8bd332ff6d90e5039cacb50f0df1bf3) updated contribs and changelog (@davglass)

v9.0.0 (2017/04/04 12:26 +00:00)
- [267c80e](https://github.com/davglass/license-checker/commit/267c80efac89eef70c71a12b8f12b3dc8e6d58dd)

9.0.0 (@davglass)
- [057af47](https://github.com/davglass/license-checker/commit/057af47bc52ac526f646ba21496f338689801809) added licenseFile assertion to tests (@davglass)
- [#92](https://github.com/davglass/license-checker/pull/92) Merge pull request #92 from abtris/includeFileContent (@abtris)
- [1cda118](https://github.com/davglass/license-checker/commit/1cda118e1aa18cc391ba2765dccae89172943a0f) fix: replace problematics chars for easy import to Excel (@abtris)
- [dd6ecab](https://github.com/davglass/license-checker/commit/dd6ecab1a7b1354c4d1d001491f58dbe0f5e3e63) feat: add licenseText (@abtris)
- [6395498](https://github.com/davglass/license-checker/commit/639549890c54a12043244579ad0c0d5972309fb2) changes and contrib (@davglass)

v8.0.4 (2017/02/15 16:21 +00:00)
- [28d379a](https://github.com/davglass/license-checker/commit/28d379aca51da7a47af324bc6feb63736ea02295) 8.0.4 (@davglass)
- [#89](https://github.com/davglass/license-checker/pull/89) Merge pull request #89 from Pawamoy/master (@Pawamoy)
- [#90](https://github.com/davglass/license-checker/pull/90) Merge pull request #90 from drewfish/bsd-source-code (@drewfish)
- [b704bc1](https://github.com/davglass/license-checker/commit/b704bc18a43de246302b8ff6933f8fe5f96ee3a6) guess BSD-Source-Code license (@drewfish)
- [8d31eab](https://github.com/davglass/license-checker/commit/8d31eabfb671d32e6f3e63215d6530d7fb4acc59) Add docs about customFormat option (@pawamoy)
- [2529d31](https://github.com/davglass/license-checker/commit/2529d3118dfae53f1e01056ec99f5c542cb8d63e) changes (@davglass)

v8.0.3 (2016/11/10 17:04 +00:00)
- [66fd7b5](https://github.com/davglass/license-checker/commit/66fd7b5ad5577cc2c85668a7c6607365c86a2c85) 8.0.3 (@davglass)
- [#87](https://github.com/davglass/license-checker/pull/87) Merge pull request #87 from drewfish/guess-cc0 (@drewfish)
- [668bbd3](https://github.com/davglass/license-checker/commit/668bbd38fd5148f99c5263f4e0506e04d5e3f8a0) guess CC0-1.0, upgraded jshint (@drewfish)

v8.0.2 (2016/11/09 21:57 +00:00)
- [0bdedd8](https://github.com/davglass/license-checker/commit/0bdedd8cb990e1f5ffacde1c12cc708185a5b866) 8.0.2 (@davglass)
- [ef67bb4](https://github.com/davglass/license-checker/commit/ef67bb454373352343faa49d4dc978a295bd1544) updated semver (@davglass)
- [14b5c85](https://github.com/davglass/license-checker/commit/14b5c8551ccbb5c5ce8aa76fb5367857c891d013) Changelog (@davglass)

v8.0.1 (2016/11/09 21:51 +00:00)
- [594871d](https://github.com/davglass/license-checker/commit/594871d6197a030121f940500495e6ca7d82f02c) 8.0.1 (@davglass)
- [c243663](https://github.com/davglass/license-checker/commit/c243663b0ab8a0126251292a57b2c47369a51ebf) added

contrib (@davglass)
- [#86](https://github.com/davglass/license-checker/pull/86) Merge pull request #86 from drewfish/copying (@drewfish)
- [380aa26](https://github.com/davglass/license-checker/commit/380aa26799cb527739907484e69c6dae26d5f17a) also support COPYING file (@drewfish)
- [329c367](https://github.com/davglass/license-checker/commit/329c3676d0cd5c5947a53fd205ff23b767b7f882) handling undefined@undefined error better (@davglass)
- [1f93a07](https://github.com/davglass/license-checker/commit/1f93a072632aad0660b63f61c56c3bd2fe109474) changelog (@davglass)

v8.0.0 (2016/09/09 13:23 +00:00)
- [44c2c48](https://github.com/davglass/license-checker/commit/44c2c48ae177915523fdf89a74474fe0953408bf) 8.0.0 (@davglass)
- [b5f5c6a](https://github.com/davglass/license-checker/commit/b5f5c6ae03a8c60c52fdd308f1721744a4baaa99) [fixes #78] - include notice file if found (@davglass)
- [dfcbd6f](https://github.com/davglass/license-checker/commit/dfcbd6f4966adc74e065f71e45cbd08ba8fe62ab) changelog
(@davglass)
- [99976d0](https://github.com/davglass/license-checker/commit/99976d07980e241384be10341d0305d08de9cea5) 7.1.1 (@davglass)
- [ef857b7](https://github.com/davglass/license-checker/commit/ef857b7e9bab706299a1cc565ec5d144893af424) [fixes #77] fixed readme file name parsing, made it more strict (@davglass)

v7.1.1 (2016/09/07 19:16 +00:00)
- [28be6d4](https://github.com/davglass/license-checker/commit/28be6d4128a3625cf8ed37ba149e79ed3a41b4fa) changelog (@davglass)

v7.1.0 (2016/09/07 15:12 +00:00)
- [9f8b7f1](https://github.com/davglass/license-checker/commit/9f8b7f1c367dfe86342ee5f5cc97171bf97281aa) 7.1.0 (@davglass)
- [60fce1a](https://github.com/davglass/license-checker/commit/60fce1a24a4ef5add98a08dd8c8a85870db3f4a6) Fixed order of operations for parsing (@davglass)
- [9d4db11](https://github.com/davglass/license-checker/commit/9d4db112794b8110a1bfe0abfe2d3e63bc812299) Updated changelog (@davglass)

v7.0.0 (2016/09/06 14:50 +00:00)
- [a3a08da](https://github.com/davglass/license-checker/commit/a3a08da70b680d724045f655e107f36b16b45fea) 7.0.0 (@davglass)
- [b993399](https://github.com/davglass/license-checker/commit/b9933994472162cc9c4292cb42f2900e17a5167f) added contrib (@davglass)
- [d783029](https://github.com/davglass/license-checker/commit/d7830297b053496e45b7145b3cfa5809ac8ab1d1) Fixes #76 - If readme data not found, look for it on disk (@davglass)
- [#75](https://github.com/davglass/license-checker/pull/75) Merge pull request #75 from revov/master (@revov)
- [6204a24](https://github.com/davglass/license-checker/commit/6204a244ee71ae0329b4f2c1ca6cf37713741f32) Fix incorrect example in README (@revov)
- [90e24ac](https://github.com/davglass/license-checker/commit/90e24ac9ad20591d5ac166cc2974034fb997b30a) Added changelog (@davglass)
- [dd768c6](https://github.com/davglass/license-checker/commit/dd768c6c8cbc39b596881a2eca582ad4bb816879)

Added contributors (@davglass)

v6.0.0 (2016/08/26 19:46 +00:00)
- [4bca140](https://github.com/davglass/license-checker/commit/4bca140db752b7b98ad1e261e5ee965d84995741) 6.0.0 (@davglass)
- [889ff17](https://github.com/davglass/license-checker/commit/889ff171aeb01a2180f4c9100ca9ea528a264d81) updating tests (@davglass)
- [ed18801](https://github.com/davglass/license-checker/commit/ed188010351c4afb44db0d32dfa1025de53bf10f) Merge branch 'nodeback' of git://github.com/bengl/license-checker into bengl-nodeback (@davglass)
- [34bb266](https://github.com/davglass/license-checker/commit/34bb26677cd0e25500fa545d4f1e8aef216b8cc7) dropping node 0.10 and adding node 6.0 to travis (@davglass)
- [1d30667](https://github.com/davglass/license-checker/commit/1d306674a7fface2cad31f2bd76d7584c7922bbc) updating tests (@davglass)
- [65d7c73](https://github.com/davglass/license-checker/commit/65d7c73f967111003fcc71ae24a4a5391bd48046) Cleaned up some code (@davglass)
- [f753998](https://github.com/davglass/license-checker/commit/f753998a06cbb5fd9fff6430b3588a3b3cf81339) Merge branch 'master' of git://github.com/amittkSharma/license-checker into amittkSharma-master (@davglass)
- [28e4462](https://github.com/davglass/license-checker/commit/28e4462543724685080c1623dc2dbd57cabb1c30) Added tests and cleaned up linting (@davglass)
- [153857a](https://github.com/davglass/license-checker/commit/153857a251a97d14c883f6479579844b2980b5aa) Publisher Information incorporated.
- [1265cb3](https://github.com/davglass/license-checker/commit/1265cb38d186ab1609dbdfa4124f237f8aa15846) Added ability to output individual license files (@aweber1)
- [49e11d0](https://github.com/davglass/license-checker/commit/49e11d049645d565b7ef6d3c778af54eb13af888) fix tests (@bengl)
- [26ffc6f](https://github.com/davglass/license-checker/commit/26ffc6f63d43c372c9a18f9c0c137608b3d5e4fa) use nodeback/errback (@bengl)

v5.1.2 (2016/05/04 18:32 +00:00)
- [7101c77](https://github.com/davglass/license-checker/commit/7101c77667ad134fe01f02c298e7df2a4080e311) 5.1.2 (@davglass)
- [#67](https://github.com/davglass/license-checker/pull/67) Merge pull request #67 from graingert/patch-2 (@graingert)
- [a6ee290](https://github.com/davglass/license-checker/commit/a6ee2904eb7fcced220dcfe8548f80ec74fde3a2) Upgrade read-installed (@graingert)
- [42e29c6](https://github.com/davglass/license-checker/commit/42e29c637940959121842762d74921bece5e8d93) migrating tests from vows to mocha (@davglass)

v5.1.1 (2016/04/14 13:20 +00:00)
- [6ae0334](https://github.com/davglass/license-checker/commit/6ae03348ca8e5835ac732028afdab664a381cfc4) 5.1.1 (@davglass)
- [0720a46](https://github.com/davglass/license-checker/commit/0720a46569f3e12eb398165526944f307e08aad6) Fixes #64 - Turn off color for --json/markdown/csv options (@davglass)

v5.1.0 (2016/03/09 15:50 +00:00)
- [86772d2](https://github.com/davglass/license-checker/commit/86772d202b63d4a4c6729b9a774193ca6ef5cb3f) 5.1.0 (@davglass)

- [#61](https://github.com/davglass/license-checker/pull/61) Merge pull request #61 from sgtdck/master (@sgtdck)
- [6547ac1](https://github.com/davglass/license-checker/commit/6547ac1ded58560c7c4abdfc68fa69d17b81fe1e) Removed obsolete d[key].name assignment from tests (@sgtdck)
- [00b18a6](https://github.com/davglass/license-checker/commit/00b18a6012387e1a4a8284c07bf2d08740e03ddd) Added a --relativeLicensePath option to display the license file relatively to the current path. (@sgtdck)
- [629da20](https://github.com/davglass/license-checker/commit/629da201e0d1170057fd9efe05efcb293d2f1bda) Added latest contributors (@davglass)

v5.0.1 (2016/02/08 15:57 +00:00)
- [33731fc](https://github.com/davglass/license-checker/commit/33731fca482936a7a18fffe3fca2f3cd41e3a625) 5.0.1 (@davglass)
- [fe06eae](https://github.com/davglass/license-checker/commit/fe06eaef8844d050ad0f80d576a221dd605131de) Fixed repplace (@davglass)
- [997914f](https://github.com/davglass/license-checker/commit/997914fd6f94030452d4d9bf549eb156ae8ef7c0) fix git+https URLs (@graingert)
- [#57](https://github.com/davglass/license-checker/pull/57) Merge pull request #57 from Damien-Larmine/doc-license-asterisk (@Damien-Larmine)
- [2adff2d](https://github.com/davglass/license-checker/commit/2adff2da98a5af79479a162e4998eb5892ab31c3) Explicit the asterisk in license report (@Damien-Larmine)
- [b2fc9cf](https://github.com/davglass/license-checker/commit/b2fc9cf2a8eaa008c7593037d046f245a7ce7f25) 5.0.0 (@davglass)
- [7f71c53](https://github.com/davglass/license-checker/commit/7f71c53833cf1318ffe84215fcb1291f9ce4fbd5) updated contributors (@davglass)

v5.0.0 (2016/01/22 15:31 +00:00)
- [#55](https://github.com/davglass/license-checker/pull/55) Merge pull request #55 from davglass/devflag (@davglass)
- [ff1d8f2](https://github.com/davglass/license-checker/commit/ff1d8f20d5d7248a4f61e2fc9279fdfea91a6ec6) supporting --production and --development flags (@davglass)
- [#53](https://github.com/davglass/license-checker/pull/53) Merge pull request #53 from swashcap/enhancement/#46-verbose-output (@swashcap)
- [#54](https://github.com/davglass/license-checker/pull/54) Merge pull request #54 from davglass/travis-updates (@davglass)
- [2c80d9d](https://github.com/davglass/license-checker/commit/2c80d9d2dcc59340698630144256096a91e23f22) fixing tests in other node versions (@davglass)
- [78820ac](https://github.com/davglass/license-checker/commit/78820ac33ab8aed74809c8a5f8847705c8b2848e) travis config updates (@davglass)
- [f94263b](https://github.com/davglass/license-checker/commit/f94263b203046e2f53d64997b0261498010eb38d) Update documentation for debug use. (@swashcap)
- [429e44d](https://github.com/davglass/license-checker/commit/429e44d697527221ef22bb03af9d67820015446f) Change `console.error` call to use debug module. (@swashcap)
- [7312daf](https://github.com/davglass/license-checker/commit/7312daf7af195a1b9d1b1f290fae15963fbb2ab4) Add debug to project. (@swashcap)

v4.2.0 (2015/10/20 13:44 +00:00)
- [3583d92](https://github.com/davglass/license-checker/commit/3583d925e96fc9f63b3bbf0110b11c8448aed0e7) 4.2.0 (@davglass)
- [981eeda](https://github.com/davglass/license-checker/commit/981eeda898084dea88d54ea29c5bda93c5313fb6)

Fixes #49: Default to unknown if licenses null and added ISC support (@davglass)

v4.1.2 (2015/09/29 13:46 +00:00)
- [ba946dd](https://github.com/davglass/license-checker/commit/ba946dd1065e762c36b27dcecdd9bb7389ad18d4) 4.1.2 (@davglass)
- [#48](https://github.com/davglass/license-checker/pull/48) Merge pull request #48 from CantemoInternal/master (@CantemoInternal)
- [e314a6d](https://github.com/davglass/license-checker/commit/e314a6d1f505d19478c33871640a763fabff6abd) Fix json, csv and markdown output for license-checker (@mattiasa)

v4.1.1 (2015/09/12 14:39 +00:00)
- [c918314](https://github.com/davglass/license-checker/commit/c918314bfc687b647d1d288bb5857dd1caac1393) 4.1.1 (@davglass)
- [#47](https://github.com/davglass/license-checker/pull/47) Merge pull request #47 from tmpvar/ensure-bin-runs (@tmpvar)
- [a842eca](https://github.com/davglass/license-checker/commit/a842ecae4f008c07df3039dcaacd4641d7273625) add missing } (@tmpvar)
- [1d513bb](https://github.com/davglass/license-checker/commit/1d513bb673d726f34286061446f965e46d96170e) ensure bin/license-checker works at a high-level (@tmpvar)

v4.1.0 (2015/09/09 14:52 +00:00)
- [a4bb437](https://github.com/davglass/license-checker/commit/a4bb437ffa806c0832f877da2de7a107863d0a1f) 4.1.0 (@davglass)
- [ddd317a](https://github.com/davglass/license-checker/commit/ddd317a5a09344f0021812b8dee2f39bbbbf07a0) fixed all of the windows line endings (@davglass)
- [11e6487](https://github.com/davglass/license-checker/commit/11e64870484435e1e6f8efb9b0f13e6b2f737a6b) Fix issues caused by merge (@ptusch)
- [313a7ed](https://github.com/davglass/license-checker/commit/313a7edc3dbdf8d50e43ba8da89306d3c89326bc) Merge remote-tracking branch 'remotes/upstream/master' into ft_custom_format (@ptusch)
- [1f5e326](https://github.com/davglass/license-checker/commit/1f5e326dbca91fc8a396b9e02efe3eac9fd82a82) added contributors to package.json (@davglass)
- [#45](https://github.com/davglass/license-checker/pull/45) Merge pull request #45 from hufsm/ft_error_handling (@hufsm)
- [c806034](https://github.com/davglass/license-checker/commit/c806034ab6feaecf297d0c23afb536b290ba8c81) Remove unused var statement (@ptusch)
- [778b1fa](https://github.com/davglass/license-checker/commit/778b1fa1a9c1be0c816545165020522d2dbf17ef) More tests to fulfill the required % (@ptusch)
- [22257d9](https://github.com/davglass/license-checker/commit/22257d95490765db816578cc48c2b5b62699f1aa) Add tests for licenses (WTFPL) (@ptusch)
- [0fe7561](https://github.com/davglass/license-checker/commit/0fe75611a73970fe9e9e0aab2d4bdee5250435b2) Remove unused filter option (never used) (@ptusch)
- [83caa10](https://github.com/davglass/license-checker/commit/83caa10493a5a05ffba6c0e80b5c03f9cd4f65d6) Change license shortcut for WTFPL (@ptusch)
- [3e348db](https://github.com/davglass/license-checker/commit/3e348dbe5feeb7bd356ebef3cd34e69329dbc8c1) More tests for the custom formatter (@ptusch)
- [96c2d6f](https://github.com/davglass/license-checker/commit/96c2d6f24c509df2bf3f6bd8b83a613fea8d9ecc)

Add tests for customFormatter (@ptusch)
- [c9948c4](https://github.com/davglass/license-checker/commit/c9948c4b7b2cccdd053ba63f4fd2a6a6d0a46493)
Add test configs (@ptusch)
- [4b2dea0](https://github.com/davglass/license-checker/commit/4b2dea0c124f6aba63abd2129625825c3b5a6570)
Fix merge issues - semicolon slipped through (@ptusch)
- [cc7662a](https://github.com/davglass/license-checker/commit/cc7662a46719c97745410e3ac2b782f937dc54ef)
Merge branch 'master' into ft_error_handling (@ptusch)
- [04a2294](https://github.com/davglass/license-checker/commit/04a2294b82a8227cccb83d76f73cbd7cf62af533)
Add additional test (@ptusch)
- [52fa91c](https://github.com/davglass/license-checker/commit/52fa91c5cbc345736ebe6e97f400a27a773502d2)
Add parseJson test (@ptusch)
- [d846c5e](https://github.com/davglass/license-checker/commit/d846c5e6970737dd3085688e7b601e9ea4546417)
Fix tests after merge conflict (@ptusch)
- [7eac458](https://github.com/davglass/license-checker/commit/7eac4583f8003b5bda4ef966768bbb457fe8dc44)
Merge branch 'master' into ft_custom_format (@ptusch)
- [4aa7065](https://github.com/davglass/license-checker/commit/4aa7065c5eef88d49c3684369b2edd9802c3f374)
Add tests for customFormat (@ptusch)

v4.0.0 (2015/09/04 13:40 +00:00)
- [3fbba5b](https://github.com/davglass/license-checker/commit/3fbba5bd5a489ea8c17328eabf71c4d5e9beb17e)
4.0.0 (@davglass)
- [ce8d661](https://github.com/davglass/license-checker/commit/ce8d66108a49af7855c16231ce675c567a2ffe7f)
tests: added 100% coverage for license file (@davglass)
- [#42](https://github.com/davglass/license-checker/pull/42) Merge pull request #42 from ptusch/ft_onlyunknown
(@ptusch)
- [8929e90](https://github.com/davglass/license-checker/commit/8929e90413be0362f19e755048e9218c372abf68)
Add tests for the error generation (@ptusch)
- [1a93a41](https://github.com/davglass/license-checker/commit/1a93a41569a53a1580c94c2c903a5bc127ad2692)
Add error handling (@ptusch)
- [6b79145](https://github.com/davglass/license-checker/commit/6b791457463dca71b22b09eecff16bbf982db682)
Add additional check to negate the test (@ptusch)
- [559e72c](https://github.com/davglass/license-checker/commit/559e72ccab2420bc42bf28b498702dad13ef967a)
Add test for the first function call. (@ptusch)
- [faf8ffd](https://github.com/davglass/license-checker/commit/faf8ffd69fd8ae475484a9b47b57a7b6ea738856)
Remove trivial UNKNOWN check (@ptusch)
- [6fa44ef](https://github.com/davglass/license-checker/commit/6fa44ef8c045ab2b0a1291b45990edf52adfc0e2)
Merge branch 'master' into ft_custom_format (@ptusch)
- [efe23d9](https://github.com/davglass/license-checker/commit/efe23d991cfcb40dc6980fbf13461408da822b1f)
Merge branch 'master' into ft_onlyunknown (@ptusch)
- [c287959](https://github.com/davglass/license-checker/commit/c2879592858805d7ecd0304a39c5cf079efe6a7c)
Add option to only show unknown licenses (@ptusch)
-
[#43](https://github.com/davglass/license-checker/pull/43) Merge pull request #43 from senotrusov/master
(@senotrusov)
- [d7a663f](https://github.com/davglass/license-checker/commit/d7a663f9deeb4d7a648a6d2cb9db84d5667ee540)
Add test for exclude option. (@senotrusov)
- [45a27de](https://github.com/davglass/license-checker/commit/45a27de02a3c1d57a86e3f8e14b6e335788c23ba)
Add option to exclude from the output modules which licenses are in the comma-separated list (@senotrusov)

- [#41](https://github.com/davglass/license-checker/pull/41) Merge pull request #41 from ptusch/ft_path_to_unknown_dependency (@ptusch)
- [1ff5f22](https://github.com/davglass/license-checker/commit/1ff5f225fd2ba97edfd3ef3f6462981832740c19) Add option to see the path of a dependency if unknown (@ptusch)
- [ea4d629](https://github.com/davglass/license-checker/commit/ea4d6297de32d94201bb4786da7ba824d928c8f2) Add additional 'undefined' checks (@ptusch)
- [af043a2](https://github.com/davglass/license-checker/commit/af043a2c11af45d28bfe71914cd10672855b3297) Merge branch 'master' into ft_custom_format (@ptusch)
- [2d94a19](https://github.com/davglass/license-checker/commit/2d94a19ece177836345a4227893a82d956141b2e) updating the docs for --unknown to make it clear (@davglass)
- [38a2bd2](https://github.com/davglass/license-checker/commit/38a2bd28a9597fdb06d844258f1070054b38bbcf) Fix codestyle and whitespaces (@ptusch)
- [dd173ba](https://github.com/davglass/license-checker/commit/dd173badc65368dc6140476ffe5ae3768fbf9618) Add --customPath in README.md (@ptusch)
- [911fc1c](https://github.com/davglass/license-checker/commit/911fc1c6b5cc27a32aac60bb409c08be138bc707) Finalize the customFormat (markdown) (@ptusch)
- [8102091](https://github.com/davglass/license-checker/commit/8102091f7949fa8b73cfc803e4aead3624b81148) Add functionality to add a custom format (@ptusch)

v3.1.0 (2015/06/29 14:25 +00:00)
- [59e1e58](https://github.com/davglass/license-checker/commit/59e1e58ca0bea1cd38e3da1712fe7ca624d860b0) 3.1.0 (@davglass)
- [0e33f7a](https://github.com/davglass/license-checker/commit/0e33f7a2cb9fa69d13d1e2b5c69f70f885e09e08) reformatted code, fixed lint issues and added tests (@davglass)
- [83a7f09](https://github.com/davglass/license-checker/commit/83a7f0933d1cc1f331279e53fcce13e4efface91) Merge branch 'asMarkdown' of git://github.com/ptusch/license-checker into ptusch-asMarkdown (@davglass)
- [703ad47](https://github.com/davglass/license-checker/commit/703ad4714173559e05267e8fd24c74e5b9d3aee0) fixing tests (@davglass)
- [2d9fffd](https://github.com/davglass/license-checker/commit/2d9fffd75192e9812692c9099481d23e265bb493) Added Markdown Option (@ptusch)
- [67dca36](https://github.com/davglass/license-checker/commit/67dca365b941a7265e4a98d2de533b22c761b169) Remove color tags (@ptusch)

v3.0.3 (2015/06/03 13:35 +00:00)
- [7475c12](https://github.com/davglass/license-checker/commit/7475c129bf291289e4616d9692a962ae537401e8) 3.0.3 (@davglass)
- [c7dae0f](https://github.com/davglass/license-checker/commit/c7dae0fe5317a17b3aef61e8c118fafc6bb43a56) spdx license (@davglass)

v3.0.2 (2015/05/12 20:29 +00:00)
- [01f3b53](https://github.com/davglass/license-checker/commit/01f3b5384998be6243d38e0d95a4478e5fe3cfa5) 3.0.2 (@davglass)
- [fc0c083](https://github.com/davglass/license-checker/commit/fc0c0832ee291c55e53efe6b37a7b9d89f191bc7) defensive code, fixes #34 (@davglass)

v3.0.1 (2015/05/04 12:28 +00:00)
- [0479570](https://github.com/davglass/license-checker/commit/0479570faf87eccc9b37fbb25afaee7faaec6636) 3.0.1 (@davglass)

- [d85e355](https://github.com/davglass/license-checker/commit/d85e355b55998952facf202eabf8d374fec69a7e) Checking for valid path first (@davglass)

v3.0.0 (2015/04/24 14:38 +00:00)
- [e22b61d](https://github.com/davglass/license-checker/commit/e22b61d5d32fef7ffb18627f55a97e1863a78096) 3.0.0 (@davglass)
- [fde9635](https://github.com/davglass/license-checker/commit/fde963583dd207eca4badffb3e0d033a038f17b5) always try to find and log the
 license file (@davglass)

v2.0.2 (2015/01/26 18:18 +00:00)
- [490f31d](https://github.com/davglass/license-checker/commit/490f31d6820f068814cfe27adf3af1ac6d58f733) 2.0.2 (@davglass)
- [a3fefdb](https://github.com/davglass/license-checker/commit/a3fefdb8fafd7ec64714defb793d757a9e8ad065) fixes #30 (@davglass)

v2.0.1 (2015/01/12 18:34 +00:00)
- [898fbd5](https://github.com/davglass/license-checker/commit/898fbd53fa289338cf8a9a1735eea440c2a6c525) 2.0.1 (@davglass)
- [2da23db](https://github.com/davglass/license-checker/commit/2da23db2f240e7e73efdf93cc554e4d7783af225) cleaned up spacing and moved vars around (@davglass)
- [d47dbe4](https://github.com/davglass/license-checker/commit/d47dbe45c992dbbdb15bfb45e8af7f18ee0ca737) fixes #29 (@davglass)

v2.0.0 (2014/12/04 16:34 +00:00)
- [f94edfe](https://github.com/davglass/license-checker/commit/f94edfec7a9914b4a36f455e8bffc6230d6f7a5e) 2.0.0 (@davglass)
- [f4c7b1a](https://github.com/davglass/license-checker/commit/f4c7b1a3d4e9c0e4753a9b267e51714fe7f7051e)
 syntax cleanup (@davglass)
- [d189623](https://github.com/davglass/license-checker/commit/d1896234a5649621ee57ff9a901877d769217194) Document CLI options in Readme. (@timoxley)
- [11e204c](https://github.com/davglass/license-checker/commit/11e204c5c078eaee1f165fa010da229d2a9fb4b5) Default to --no-colour for json, csv & file output. (@timoxley)
- [7e80d50](https://github.com/davglass/license-checker/commit/7e80d50c733f8ee42c7b4a79dc3344b3dd330cff) Add --out flag for writing an output file. (@timoxley)
- [47bffc9](https://github.com/davglass/license-checker/commit/47bffc9e0e249b2847c8ed4f3eaadb0dcdd731b9) Always print to stdout, don't write files. (@timoxley)
- [b725080](https://github.com/davglass/license-checker/commit/b725080d2dbdfddbf0994867577d4c5e3dc0ee2a) Don't print info messages to stdout. (@timoxley)

v1.0.1 (2014/11/27 15:23 +00:00)
- [e60f792](https://github.com/davglass/license-checker/commit/e60f792159351aa7ccff1f7af73e289afee261a5) 1.0.1 (@davglass)
-
 [3f74178](https://github.com/davglass/license-checker/commit/3f7417822dc8804978d1bae4ed84190d327df15c) Merge branch 'fixinfiniterecursion' of github.com:yzapuchlak/license-checker into yzapuchlak-fixinfiniterecursion (@davglass)
- [dc78ea0](https://github.com/davglass/license-checker/commit/dc78ea0dca546283440c89fec2dc6818dc4cc1c1)

sticking vows 0.8.0 for testing (@davglass)
- [bd549b3](https://github.com/davglass/license-checker/commit/bd549b3b68e74fddd0e08dac10d5f88a8bb51ca6) Fixed issue where circular dependencies in dependency tree would cause the flatten function to infinitely recurse. If the current key is found to be already in the data object (which means it was already processed), we stop processing that key and return the data object. (@yzapuchlak)

v1.0.0 (2014/11/21 13:56 +00:00)
- [917193d](https://github.com/davglass/license-checker/commit/917193dab27147534976b71307a77f48198ca322) 1.0.0 (@davglass)
- [63e5f9c](https://github.com/davglass/license-checker/commit/63e5f9c77e348720b3867171bcc67541e846d088) added options.filter to checker.init (@davglass)

v0.1.2 (2014/11/20 15:48 +00:00)
- [8e5f5f0](https://github.com/davglass/license-checker/commit/8e5f5f0e7f83252e4039f6c7d16cc266acc1a33a) 0.1.2 (@davglass)
- [3d7a74e](https://github.com/davglass/license-checker/commit/3d7a74e90122f908057b2008ab29d8bd49011291) fixed lint issue (@davglass)

v0.1.1 (2014/11/20 15:47 +00:00)
- [750d507](https://github.com/davglass/license-checker/commit/750d5079d32b44ecc984ff7ed672498d1b197235) 0.1.1 (@davglass)
- [94522e0](https://github.com/davglass/license-checker/commit/94522e099434dfdf163c3f2c5cacb3e6aa196cf8) fixed merge issues (@davglass)

v0.1.0 (2014/11/20 15:41 +00:00)
- [8127f5e](https://github.com/davglass/license-checker/commit/8127f5e79eeceb7dfd86cd5f694080e4183dcb11) 0.1.0 (@davglass)
- [76c71ac](https://github.com/davglass/license-checker/commit/76c71ac46baeca8c349fe5892dcb659e859b9608) Updated to newer read-installed (@davglass)

v0.0.10 (2014/08/12 12:48 +00:00)
- [807507d](https://github.com/davglass/license-checker/commit/807507df1a293bc0360adffd725a9f911331ff2b) 0.0.10 (@davglass)
- [e39ad9b](https://github.com/davglass/license-checker/commit/e39ad9bce6bcd545772c241e2e7aba8f40d5bbbb) Added checking that the license file is a normal file, because otherwise an appropriately named directory crashes the license-checker through EISDIR, illegal operation on a directory.
- [40ca4da](https://github.com/davglass/license-checker/commit/40ca4dadbc163ca774c87b1de249bd295952faa9) colorize (@couchand)

v0.0.9 (2014/07/29 01:48 +00:00)
- [c14ef79](https://github.com/davglass/license-checker/commit/c14ef79f10f950ff0985e7e0b3138147b98ab1ec) 0.0.9 (@davglass)
- [ba1b66b](https://github.com/davglass/license-checker/commit/ba1b66b6172a2f9f8dbcdc56f40206820bc0916b) Fixes #12 - Using some nicer regexes (@davglass)
- [bce94d5](https://github.com/davglass/license-checker/commit/bce94d5a8ab2f146356851776b2543df65fbf750) case insensative

check (@davglass)
- [87c3406](https://github.com/davglass/license-checker/commit/87c3406aee2507eaf1d00d592f6dcb59a16e7c48) Allow for LICENCE (@gdw2)

v0.0.8 (2014/07/07 20:10 +00:00)
- [6ad6ee2](https://github.com/davglass/license-checker/commit/6ad6ee21813e698e7f995e98dcadafbd961f6a33) 0.0.8 (@davglass)
- [b8c5815](https://github.com/davglass/license-checker/commit/b8c58151135f57d91fb0d1cfb194d034c012073f) added tests and refactored the code a little (@davglass)
- [275f276](https://github.com/davglass/license-checker/commit/275f276dc6e6d5635f9cb5b7e9a978e286f2d174) Added --csv option to readme file
- [d91eb72](https://github.com/davglass/license-checker/commit/d91eb7289466853ae6e88448b953b4d3d98ebab5) Apparently abbrev is now at version 1.0.5 which caused the unit test to fail.
- [40b4a42](https://github.com/davglass/license-checker/commit/40b4a420e520c2008b9395d1a8fdf38b56f846f5) Modified changes based on lshint output during Travis build
- [54e2390](https://github.com/davglass/license-checker/commit/54e2390cefd1dc664a15cd3a84347227f889f48b) Added csv output option similar to the existing JSON output option. Requires an output filename.

v0.0.7 (2014/02/26 04:52 +00:00)
- [1ce6d42](https://github.com/davglass/license-checker/commit/1ce6d42147b2d0237870818e8059003b331816cf) 0.0.7 (@davglass)
- [7d04195](https://github.com/davglass/license-checker/commit/7d041959450c68b3c5f427007c43cd6c73c6adfb) Added not check and a proper test (@davglass)
- [40d6e25](https://github.com/davglass/license-checker/commit/40d6e2580946c3cee1d408ebe28ff523852e8eb2) Undefined handling (@garrows)
- [90217d0](https://github.com/davglass/license-checker/commit/90217d070fd62cf76eb4e7b1610ed5eef6ae840d) travis Stuff (@davglass)
- [2bd76c8](https://github.com/davglass/license-checker/commit/2bd76c894f740cd83f6246e0e7341832c6432d8b) 0.0.6 (@davglass)
- [6f390ff](https://github.com/davglass/license-checker/commit/6f390fff60b31a07939e6d325796bdcbfefb5907) Added some better tests
(@davglass)
- [2dbcac3](https://github.com/davglass/license-checker/commit/2dbcac37b5795ceb6db53452d0e41d1c4bc3153f) Looking for WTFPL as well as the string (@davglass)
- [5d91a07](https://github.com/davglass/license-checker/commit/5d91a073a8b76ec9a497c1e3b83198ce97e144fd) Flattened array of one (@davglass)
- [e95da82](https://github.com/davglass/license-checker/commit/e95da820c63e0d56c4567f1cfad07142d3110eca) Fixed extra var (@davglass)
- [fe8f2f7](https://github.com/davglass/license-checker/commit/fe8f2f7d39d520c0c4d87d34c9d4f55d59f4222d) Removing unecessary log statement (@paulmand3l)
- [72a6f24](https://github.com/davglass/license-checker/commit/72a6f2403de43ecf5ec07bb504cb931c0e53f6a3) Adding license checks in the LICENSE file (and variations) (@paulmand3l)
- [#7](https://github.com/davglass/license-checker/pull/7) Merge pull request #7 from jamesbloomer/master (@jamesbloomer)
- [a81eee0](https://github.com/davglass/license-checker/commit/a81eee0a27f580688e371cc15015e848f591bb92) Fixed missing "install" in npm -g (@jamesbloomer)
- [416b012](https://github.com/davglass/license-checker/commit/416b01219e07a8274e05cd883ec050376902adeb) Updated Version (@davglass)

- [6d9bd1e](https://github.com/davglass/license-checker/commit/6d9bd1e195202c871693d4b1e9bac8c055683e8b) Fixed lint issue and added a test placeholder. Will add more tests soon (@davglass)
- [655a316](https://github.com/davglass/license-checker/commit/655a316f6448daf3c449f8b88e8878a95a8b153e) Added Travis test file (@davglass)
- [99895df](https://github.com/davglass/license-checker/commit/99895df6d3ac0f9ae4e8c935311fb1b3f88a688e) Version Bump (@davglass)
- [#4](https://github.com/davglass/license-checker/pull/4) Merge pull request #4 from badunk/refactor (@badunk)
- [1123a1b](https://github.com/davglass/license-checker/commit/1123a1baefc1975f8c36cb59952254cd66c31017) Merge branch 'master' of https://github.com/davglass/license-checker (@badunk)
- [191612e](https://github.com/davglass/license-checker/commit/191612e5c21a01bd453368299a14cc5ff1c6fb13) Version Bump (@davglass)
- [#2](https://github.com/davglass/license-checker/pull/2) Merge pull request #2 from badunk/circular (@badunk)
- [9b5a117](https://github.com/davglass/license-checker/commit/9b5a1175892254e96d72f3d8dc793dcc4e2bde37) fixed special case when an empty array is passed to license/licenses (@badunk)
- [025668b](https://github.com/davglass/license-checker/commit/025668b0a62b0d5b58662ce6aeed91de909a6fef) fixed bug with multiple licenses objects not showing (@badunk)
- [e6bdf52](https://github.com/davglass/license-checker/commit/e6bdf52a8e5f9ebed29982014fa4d4586f63d06a) cleaned up the code (@badunk)
- [efb62f2](https://github.com/davglass/license-checker/commit/efb62f2f52a29e9a37a7f387b280fc17ab0a5f19) added check for circular dependencies (@badunk)
- [825b40c](https://github.com/davglass/license-checker/commit/825b40cb61fee36dd60751daa9d44e28853587ac) Version Bump (@davglass)
- [#1](https://github.com/davglass/license-checker/pull/1) Merge pull request #1 from mwilliamson/master (@mwilliamson)
- [2f24319](https://github.com/davglass/license-checker/commit/2f24319dd8dd212a1f78ad91af7fee21d50ab762) Don't ignore license field if it's a string (@mwilliamson)
- [7b8c34f](https://github.com/davglass/license-checker/commit/7b8c34f75b04a7541bf23d596bbaae5447492c53) Initial Commit (@davglass)

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{
"name": "",
"version": "",
"description": "",
"licenses": "",
"licenseFile": "none",
"licenseText": "none",
"licenseModified": "no"
}

1.6353 webpack-dev-server/node_modules/ajv 8.11.0

1.6353.1 Available under license :

{
"foo": "static"
}
{
"foo": "dynamic"
}

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1.6354 workbox-build/node_modules/@apideck/better-ajv-errors 0.3.6

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1.6355 webpack-dev-middleware/node_modules/json-schema-

traverse 1.0.0

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1.6356 jest-watch-typeahead/node_modules/jest-util 28.1.3

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1.6357 jest-resolve/node_modules/chalk 4.1.2

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1.6358 jest-watch-typeahead/node_modules/jest-message-util/node_modules/slash 3.0.0

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1.6359 jest-watch-typeahead/node_modules/jest-message-util 28.1.3

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1.6360 @jridgewell/source-map/node_modules/@jridgewell/gen-mapping 0.3.2

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1.6361 jest-watch-typeahead/node_modules/string-length 5.0.1

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1.6362 serve-index/node_modules/ms 2.0.0

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1.6363 @jest/core/node_modules/color-convert 2.0.1

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1.6364 react-dev-utils/node_modules/loader-utils 3.2.1

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1.6365 babel-plugin-polyfill-corejs2/node_modules/semver 6.3.1

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1.6366 eslint-plugin-import/node_modules/debug 2.6.9

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1.6367 tsconfig-paths/node_modules/strip-bom 3.0.0

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1.6368 svgo/node_modules/nth-check 1.0.2

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1.6369 jest-util/node_modules/chalk 4.1.2

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1.6370 istanbul-lib-instrument/node_modules/semver 6.3.1

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1.6371 rollup-plugin-terser/node_modules/serialize-javascript 4.0.0

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1.6372 webpack-dev-server/node_modules/ajv-keywords 5.1.0

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1.6374 tough-cookie/node_modules/universalify 0.2.0

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1.6375 fork-ts-checker-webpack-plugin/node_modules/color-name 1.1.4

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1.6377 webpack-dev-middleware/node_modules/schema-utils 4.0.0

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```
{
 "foo": "static"
}
{
 "foo": "dynamic"
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```

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1.6378 jest-each/node_modules/color-convert 2.0.1

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1.6379 @babel/eslint-parser/node_modules/semver 6.3.1

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1.6380 eslint-webpack-plugin/node_modules/ajv 8.11.0

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1.6381 serve-index/node_modules/depd 1.1.2

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1.6382 pkg-dir/node_modules/find-up 4.1.0

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1.6383 jest-snapshot/node_modules/color-convert 2.0.1

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1.6384 jest-each/node_modules/has-flag 4.0.0

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1.6385 jest-runner/node_modules/color-name 1.1.4

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1.6386 jest-resolve/node_modules/supports-color 7.2.0

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1.6387 eslint-plugin-import/node_modules/doctrine 2.1.0

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1.6388 jest-cli/node_modules/color-name 1.1.4

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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node-http-proxy

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TypeBox: JSON Schema Type Builder with Static Type Resolution for TypeScript

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- tests/iojs/test-http-parser-durability.js

This file is from https://github.com/mscdex/io.js/blob/js-http-parser/test/pummel/test-http-parser-durability.js
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"""

- tests/fixtures/*
tests/parallel/*
tests/testpy/*
tests/common.js
tests/test.py
tests/utils.py

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1.6389 jest-runner/node_modules/ansi-styles 4.3.0

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1.6390 jest-watch-typeahead/node_modules/supports-color 7.2.0

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1.6391 jest-watcher/node_modules/has-flag 4.0.0

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1.6392 ajv-formats/node_modules/ajv 8.11.0

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```
<template>
 <div>
   <a
     v-for="(contributor, i) in contributors"
     class="contributor"
     :style="'background-position: ' + (100 * i) / (contributors.length - 1) + '% 0'"
     :href="'https://github.com/' + contributor"
   >
     {{ contributor }}
   </a>
 </div>
</template>

<script>
import contributors from "./Contributors/_contributors.js"
export default {
 data() {
```

```
  return {
    contributors: contributors,
  }
 },
}
</script>

<style lang="stylus" scoped>
.contributor
 width 3.26em
 height 3.26em
 border-radius 50%
 text-indent -9999px
 display inline-block
 background no-repeat url('./Contributors/contributors.jpg')
 background-size auto 102%
 margin 0 0.67em 0.67em 0
 border 2px solid var(--second)
 @media only screen and (min-width: $MQMobileSmall)
  width 3.625em
  height 3.625em
  margin 0 0.8em 0.8em 0
</style>
```

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1.6393 global-prefix/node_modules/which 1.3.1

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1.6394 @jest/core/node_modules/chalk 4.1.2

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1.6395 eslint-webpack-plugin/node_modules/has-flag 4.0.0

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1.6396 postcss-svgo/node_modules/source-map 0.6.1

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1.6397 eslint/node_modules/argparse 2.0.1

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"type": "integer"
},
"TokenProperties": {

```
        "shape": "S25"
      },
      "ClientToken": {}
    }
  },
  "output": {
    "type": "structure",
    "members": {
      "TokenId": {},
      "TokenType": {},
      "Token": {}
    }
  }
},
"DeleteGrant": {
  "input": {
    "type": "structure",
    "required": [
      "GrantArn",
      "Version"
    ],
    "members": {
      "GrantArn": {},
      "StatusReason": {},
      "Version": {}
    }
  },
  "output": {
    "type": "structure",
    "members": {
      "GrantArn": {},
      "Status": {},
      "Version": {}
    }
  }
},
"DeleteLicense": {
  "input": {
    "type": "structure",
    "required": [
      "LicenseArn",
      "SourceVersion"
    ],
    "members": {
      "LicenseArn": {},
      "SourceVersion": {}
    }
  },
```

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  "output": {
    "type": "structure",
    "members": {
      "Status": {},
      "DeletionDate": {}
    }
  }
},
"DeleteLicenseConfiguration": {
  "input": {
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    "required": [
      "LicenseConfigurationArn"
    ],
    "members": {
      "LicenseConfigurationArn": {}
    }
  },
  "output": {
    "type": "structure",
    "members": {}
  }
},
"DeleteLicenseManagerReportGenerator": {
  "input": {
    "type": "structure",
    "required": [
      "LicenseManagerReportGeneratorArn"
    ],
    "members": {
      "LicenseManagerReportGeneratorArn": {}
    }
  },
  "output": {
    "type": "structure",
    "members": {}
  }
},
"DeleteToken": {
  "input": {
    "type": "structure",
    "required": [
      "TokenId"
    ],
    "members": {
      "TokenId": {}
    }
  },
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    "output": {
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"structure",
      "members": {}
    }
  },
  "ExtendLicenseConsumption": {
    "input": {
      "type": "structure",
      "required": [
        "LicenseConsumptionToken"
      ],
      "members": {
        "LicenseConsumptionToken": {},
        "DryRun": {
          "type": "boolean"
        }
      }
    },
    "output": {
      "type": "structure",
      "members": {
        "LicenseConsumptionToken": {},
        "Expiration": {}
      }
    }
  },
  "GetAccessToken": {
    "input": {
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      "required": [
        "Token"
      ],
      "members": {
        "Token": {},
        "TokenProperties": {
          "shape": "S25"
        }
      }
    },
    "output": {
      "type": "structure",
      "members": {
        "AccessToken": {}
      }
    }
  },
  "GetGrant": {
```

```
  "input": {
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    "required": [
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    ],
     "members": {
      "GrantArn": {},
      "Version": {}
    }
  },
  "output": {
    "type": "structure",
    "members": {
      "Grant": {
        "shape": "S2r"
      }
    }
  }
},
"GetLicense": {
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    "type": "structure",
    "required": [
      "LicenseArn"
    ],
    "members": {
      "LicenseArn": {},
      "Version": {}
    }
  },
  "output": {
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    "members": {
      "License": {
        "shape": "S2u"
      }
    }
  }
},
"GetLicenseConfiguration": {
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    "required": [
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    ],
    "members": {
      "LicenseConfigurationArn": {}
    }
```

```
    },
    "output": {
      "type": "structure",
      "members": {
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        "LicenseConfigurationArn": {},
        "Name":
{},
        "Description": {},
        "LicenseCountingType": {},
        "LicenseRules": {
          "shape": "S1e"
        },
        "LicenseCount": {
          "type": "long"
        },
        "LicenseCountHardLimit": {
          "type": "boolean"
        },
        "ConsumedLicenses": {
          "type": "long"
        },
        "Status": {},
        "OwnerAccountId": {},
        "ConsumedLicenseSummaryList": {
          "shape": "S2y"
        },
        "ManagedResourceSummaryList": {
          "shape": "S31"
        },
        "Tags": {
          "shape": "S1f"
        },
        "ProductInformationList": {
          "shape": "S1h"
        },
        "AutomatedDiscoveryInformation": {
          "shape": "S33"
        },
        "DisassociateWhenNotFound": {
          "type": "boolean"
        }
      }
    }
  },
  "GetLicenseConversionTask": {
    "input": {
      "type": "structure",
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```
  "required": [
      "LicenseConversionTaskId"
    ],
    "members": {
      "LicenseConversionTaskId": {}
    }
  },
  "output": {
    "type": "structure",
    "members": {
      "LicenseConversionTaskId": {},
      "ResourceArn": {},
      "SourceLicenseContext": {
        "shape": "S1n"
      },
      "DestinationLicenseContext": {
        "shape": "S1n"
      },
      "StatusMessage": {},
      "Status": {},
      "StartTime": {
        "type": "timestamp"
      },
      "LicenseConversionTime": {
        "type": "timestamp"
      },
      "EndTime": {
        "type": "timestamp"
      }
    }
  }
},
"GetLicenseManagerReportGenerator": {
  "input": {
    "type": "structure",
    "required": [
      "LicenseManagerReportGeneratorArn"
    ],
    "members": {
      "LicenseManagerReportGeneratorArn": {}
    }
  },
  "output":
{
    "type": "structure",
    "members": {
      "ReportGenerator": {
```

```
        "shape": "S3a"
      }
    }
  }
},
"GetLicenseUsage": {
  "input": {
    "type": "structure",
    "required": [
      "LicenseArn"
    ],
    "members": {
      "LicenseArn": {}
    }
  },
  "output": {
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    "members": {
      "LicenseUsage": {
        "type": "structure",
        "members": {
          "EntitlementUsages": {
            "type": "list",
            "member": {
              "type": "structure",
              "required": [
                "Name",
                "ConsumedValue",
                "Unit"
              ],
              "members": {
                "Name": {},
                "ConsumedValue": {},
                "MaxCount": {},
                "Unit": {}
              }
            }

      }
        }
      }
    }
  }
},
"GetServiceSettings": {
  "input": {
    "type": "structure",
    "members": {}
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```
    },
    "output": {
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      "members": {
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        "SnsTopicArn": {},
        "OrganizationConfiguration": {
          "shape": "S3j"
        },
        "EnableCrossAccountsDiscovery": {
          "type": "boolean"
        },
        "LicenseManagerResourceShareArn": {}
      }
    }
  },
  "ListAssociationsForLicenseConfiguration": {
    "input": {
      "type": "structure",
      "required": [
        "LicenseConfigurationArn"
      ],
      "members": {
        "LicenseConfigurationArn": {},
        "MaxResults": {
          "type": "integer"
        },
        "NextToken": {}
      }
    },
    "output": {
      "type": "structure",
      "members": {
        "LicenseConfigurationAssociations": {

"type": "list",
          "member": {
            "type": "structure",
            "members": {
              "ResourceArn": {},
              "ResourceType": {},
              "ResourceOwnerId": {},
              "AssociationTime": {
                "type": "timestamp"
              },
              "AmiAssociationScope": {}
            }
          }
```

```
      },
      "NextToken": {}
    }
  }
},
"ListDistributedGrants": {
  "input": {
    "type": "structure",
    "members": {
      "GrantArns": {
        "shape": "S1w"
      },
      "Filters": {
        "shape": "S3p"
      },
      "NextToken": {},
      "MaxResults": {
        "type": "integer"
      }
    }
  },
  "output": {
    "type": "structure",
    "members": {
      "Grants": {
        "shape": "S3w"
      },
      "NextToken": {}
    }
  }
},
"ListFailuresForLicenseConfigurationOperations":
{
  "input": {
    "type": "structure",
    "required": [
      "LicenseConfigurationArn"
    ],
    "members": {
      "LicenseConfigurationArn": {},
      "MaxResults": {
        "type": "integer"
      },
      "NextToken": {}
    }
  },
  "output": {
    "type": "structure",
```

```
      "members": {
        "LicenseOperationFailureList": {
          "type": "list",
          "member": {
            "type": "structure",
            "members": {
              "ResourceArn": {},
              "ResourceType": {},
              "ErrorMessage": {},
              "FailureTime": {
                "type": "timestamp"
              },
              "OperationName": {},
              "ResourceOwnerId": {},
              "OperationRequestedBy": {},
              "MetadataList": {
                "shape": "Sd"
              }
            }
          }
        },
        "NextToken":
{}
      }
    }
  },
  "ListLicenseConfigurations": {
    "input": {
      "type": "structure",
      "members": {
        "LicenseConfigurationArns": {
          "shape": "S1e"
        },
        "MaxResults": {
          "type": "integer"
        },
        "NextToken": {},
        "Filters": {
          "shape": "S42"
        }
      }
    },
    "output": {
      "type": "structure",
      "members": {
        "LicenseConfigurations": {
          "type": "list",
          "member": {
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"type": "structure",
"members": {
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"LicenseConfigurationArn": {},
"Name": {},
"Description": {},
"LicenseCountingType": {},
"LicenseRules": {
"shape": "S1e"
},
"LicenseCount": {
"type": "long"
},
"LicenseCountHardLimit":
{
"type": "boolean"
},
"DisassociateWhenNotFound": {
"type": "boolean"
},
"ConsumedLicenses": {
"type": "long"
},
"Status": {},
"OwnerAccountId": {},
"ConsumedLicenseSummaryList": {
"shape": "S2y"
},
"ManagedResourceSummaryList": {
"shape": "S31"
},
"ProductInformationList": {
"shape": "S1h"
},
"AutomatedDiscoveryInformation": {
"shape": "S33"
}
}
}
},
"NextToken": {}
}
}
},
"ListLicenseConversionTasks": {
"input": {
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"members": {

"NextToken": {},
"MaxResults": {
"type":
"integer"
},
"Filters": {
"shape": "S42"
}
}
},
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"members": {
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"type": "list",
"member": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {},
"ResourceArn": {},
"SourceLicenseContext": {
"shape": "S1n"
},
"DestinationLicenseContext": {
"shape": "S1n"
},
"Status": {},
"StatusMessage": {},
"StartTime": {
"type": "timestamp"
},
"LicenseConversionTime": {
"type": "timestamp"
},
"EndTime": {
"type": "timestamp"
}
}
}
},
"NextToken":
{}
}
}
},
"ListLicenseManagerReportGenerators": {
"input": {
"type": "structure",

```
    "members": {
      "Filters": {
        "shape": "S3p"
      },
      "NextToken": {},
      "MaxResults": {
        "type": "integer"
      }
    }
  },
  "output": {
    "type": "structure",
    "members": {
      "ReportGenerators": {
        "type": "list",
        "member": {
          "shape": "S3a"
        }
      },
      "NextToken": {}
    }
  }
},
"ListLicenseSpecificationsForResource": {
  "input": {
    "type": "structure",
    "required": [
      "ResourceArn"
    ],
    "members": {
      "ResourceArn": {},
      "MaxResults": {
        "type": "integer"
      },
      "NextToken": {}
    }
  },
  "output": {
    "type": "structure",
    "members": {
      "LicenseSpecifications": {
          "shape": "S4f"
      },
      "NextToken": {}
    }
  }
},
"ListLicenseVersions": {
```

```
  "input": {
    "type": "structure",
    "required": [
      "LicenseArn"
    ],
    "members": {
      "LicenseArn": {},
      "NextToken": {},
      "MaxResults": {
        "type": "integer"
      }
    }
  },
  "output": {
    "type": "structure",
    "members": {
      "Licenses": {
        "shape": "S4j"
      },
      "NextToken": {}
    }
  }
},
"ListLicenses": {
  "input": {
    "type": "structure",
    "members": {
      "LicenseArns": {
        "shape": "S1w"
      },
      "Filters": {
        "shape": "S3p"
      },
      "NextToken": {},
      "MaxResults": {
        "type": "integer"
      }
    }
  },
  "output": {
    "type": "structure",
    "members": {
      "Licenses": {

    "shape": "S4j"
      },
      "NextToken": {}
    }
```

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  }
},
"ListReceivedGrants": {
  "input": {
    "type": "structure",
    "members": {
      "GrantArns": {
        "shape": "S1w"
      },
      "Filters": {
        "shape": "S3p"
      },
      "NextToken": {},
      "MaxResults": {
        "type": "integer"
      }
    }
  },
  "output": {
    "type": "structure",
    "members": {
      "Grants": {
        "shape": "S3w"
      },
      "NextToken": {}
    }
  }
},
"ListReceivedGrantsForOrganization": {
  "input": {
    "type": "structure",
    "required": [
      "LicenseArn"
    ],
    "members": {
      "LicenseArn": {},
      "Filters": {
        "shape": "S3p"
      },
      "NextToken": {},
      "MaxResults": {
        "type": "integer"
      }
    }
  },
  "output": {
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"members": {
"Grants": {
"shape": "S3w"
},
"NextToken": {}
}
}
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"ListReceivedLicenses": {
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"members": {
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},
"Filters": {
"shape": "S3p"
},
"NextToken": {},
"MaxResults": {
"type": "integer"
}
}
},
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"type": "structure",
"members": {
"Licenses": {
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},
"NextToken": {}
}
}
},
"ListReceivedLicensesForOrganization": {
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"type": "structure",
"members": {
"Filters": {
"shape": "S3p"
},
"NextToken": {},
"MaxResults": {
"type": "integer"
}
}
},

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    "output": {
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"structure",
      "members": {
        "Licenses": {
          "shape": "S4s"
        },
        "NextToken": {}
      }
    }
  },
  "ListResourceInventory": {
    "input": {
      "type": "structure",
      "members": {
        "MaxResults": {
          "type": "integer"
        },
        "NextToken": {},
        "Filters": {
          "type": "list",
          "member": {
            "type": "structure",
            "required": [
              "Name",
              "Condition"
            ],
            "members": {
              "Name": {},
              "Condition": {},
              "Value": {}
            }
          }
        }
      }
    },
    "output": {
      "type": "structure",
      "members": {
        "ResourceInventoryList": {
          "type": "list",
          "member": {
            "type": "structure",
            "members": {
              "ResourceId": {},
              "ResourceType":
{},
              "ResourceArn": {},
```

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          "Platform": {},
          "PlatformVersion": {},
          "ResourceOwningAccountId": {}
        }
      }
    },
    "NextToken": {}
  }
}
},
"ListTagsForResource": {
  "input": {
    "type": "structure",
    "required": [
      "ResourceArn"
    ],
    "members": {
      "ResourceArn": {}
    }
  },
  "output": {
    "type": "structure",
    "members": {
      "Tags": {
        "shape": "S1f"
      }
    }
  }
},
"ListTokens": {
  "input": {
    "type": "structure",
    "members": {
      "TokenIds": {
        "shape": "S1e"
      },
      "Filters": {
        "shape": "S3p"
      },
      "NextToken": {},
      "MaxResults": {
        "type": "integer"
      }
    }
  },
  "output": {
    "type": "structure",
    "members":
```

```
{
      "Tokens": {
        "type": "list",
        "member": {
          "type": "structure",
          "members": {
            "TokenId": {},
            "TokenType": {},
            "LicenseArn": {},
            "ExpirationTime": {},
            "TokenProperties": {
              "shape": "S25"
            },
            "RoleArns": {
              "shape": "S1w"
            },
            "Status": {}
          }
        }
      },
      "NextToken": {}
    }
  }
},
"ListUsageForLicenseConfiguration": {
  "input": {
    "type": "structure",
    "required": [
      "LicenseConfigurationArn"
    ],
    "members": {
      "LicenseConfigurationArn": {},
      "MaxResults": {
        "type": "integer"
      },
      "NextToken": {},
      "Filters": {
        "shape": "S42"
      }
    }
  },
  "output": {

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    "members": {
      "LicenseConfigurationUsageList": {
        "type": "list",
        "member": {
```

```
          "type": "structure",
          "members": {
            "ResourceArn": {},
            "ResourceType": {},
            "ResourceStatus": {},
            "ResourceOwnerId": {},
            "AssociationTime": {
              "type": "timestamp"
            },
            "ConsumedLicenses": {
              "type": "long"
            }
          }
        }
      },
      "NextToken": {}
    }
  }
},
"RejectGrant": {
  "input": {
    "type": "structure",
    "required": [
      "GrantArn"
    ],
    "members": {
      "GrantArn": {}
    }
  },
  "output": {
    "type": "structure",
    "members": {
      "GrantArn": {},
      "Status": {},
      "Version": {}
    }
  }
},
"TagResource": {
  "input": {
    "type": "structure",
    "required": [
      "ResourceArn",
      "Tags"
    ],
    "members": {
      "ResourceArn": {},
      "Tags": {
```

```
          "shape": "S1f"
        }
      }
    },
    "output": {
      "type": "structure",
      "members": {}
    }
  },
  "UntagResource": {
    "input": {
      "type": "structure",
      "required": [
        "ResourceArn",
        "TagKeys"
      ],
      "members": {
        "ResourceArn": {},
        "TagKeys": {
          "type": "list",
          "member": {}
        }
      }
    },
    "output": {
      "type": "structure",
      "members": {}
    }
  },
  "UpdateLicenseConfiguration": {
    "input": {
      "type": "structure",
      "required": [
        "LicenseConfigurationArn"
      ],
      "members": {
        "LicenseConfigurationArn": {},
        "LicenseConfigurationStatus": {},
        "LicenseRules":
{
          "shape": "S1e"
        },
        "LicenseCount": {
          "type": "long"
        },
        "LicenseCountHardLimit": {
          "type": "boolean"
        },
```

```
        "Name": {},
        "Description": {},
        "ProductInformationList": {
          "shape": "S1h"
        },
        "DisassociateWhenNotFound": {
          "type": "boolean"
        }
      }
    },
    "output": {
      "type": "structure",
      "members": {}
    }
  },
  "UpdateLicenseManagerReportGenerator": {
    "input": {
      "type": "structure",
      "required": [
        "LicenseManagerReportGeneratorArn",
        "ReportGeneratorName",
        "Type",
        "ReportContext",
        "ReportFrequency",
        "ClientToken"
      ],
      "members": {
        "LicenseManagerReportGeneratorArn": {},
        "ReportGeneratorName": {},
        "Type": {
          "shape": "S1t"
        },
        "ReportContext":
{
          "shape": "S1v"
        },
        "ReportFrequency": {
          "shape": "S1x"
        },
        "ClientToken": {},
        "Description": {}
      }
    },
    "output": {
      "type": "structure",
      "members": {}
    }
  },
```

```
  "UpdateLicenseSpecificationsForResource": {
    "input": {
      "type": "structure",
      "required": [
        "ResourceArn"
      ],
      "members": {
        "ResourceArn": {},
        "AddLicenseSpecifications": {
          "shape": "S4f"
        },
        "RemoveLicenseSpecifications": {
          "shape": "S4f"
        }
      }
    },
    "output": {
      "type": "structure",
      "members": {}
    }
  },
  "UpdateServiceSettings": {
    "input": {
      "type": "structure",
      "members": {
        "S3BucketArn": {},
        "SnsTopicArn": {},
        "OrganizationConfiguration": {
          "shape": "S3j"
        },
        "EnableCrossAccountsDiscovery":
{
          "type": "boolean"
        }
      }
    },
    "output": {
      "type": "structure",
      "members": {}
    }
  }
},
"shapes": {
  "S9": {
    "type": "list",
    "member": {
      "type": "structure",
      "required": [
```

```
      "Name",
      "Unit"
    ],
    "members": {
      "Name": {},
      "Value": {},
      "Unit": {}
    }
  }
},
"Sd": {
  "type": "list",
  "member": {
    "type": "structure",
    "members": {
      "Name": {},
      "Value": {}
    }
  }
},
"So": {
  "type": "list",
  "member": {}
},
"St": {
  "type": "structure",
  "members": {
    "ActivationOverrideBehavior": {}
  }
},
"Sx": {
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  "required": [
    "Name"
  ],
  "members": {
    "Name": {},
    "SignKey": {}
  }
},
"Sy": {
  "type": "structure",
  "required":
[
    "Begin"
  ],
  "members": {
    "Begin": {},
```

```
    "End": {}
  }
},
"Sz": {
  "type": "list",
  "member": {
    "type": "structure",
    "required": [
      "Name",
      "Unit"
    ],
    "members": {
      "Name": {},
      "Value": {},
      "MaxCount": {
        "type": "long"
      },
      "Overage": {
        "type": "boolean"
      },
      "Unit": {},
      "AllowCheckIn": {
        "type": "boolean"
      }
    }
  }
},
"S14": {
  "type": "structure",
  "members": {
    "RenewType": {},
    "ProvisionalConfiguration": {
      "type": "structure",
      "required": [
        "MaxTimeToLiveInMinutes"
      ],
      "members": {
        "MaxTimeToLiveInMinutes": {
          "type": "integer"
        }
      }
    },
    "BorrowConfiguration": {
      "type": "structure",

  "required": [
        "AllowEarlyCheckIn",
        "MaxTimeToLiveInMinutes"
```

```
      ],
      "members": {
        "AllowEarlyCheckIn": {
          "type": "boolean"
        },
        "MaxTimeToLiveInMinutes": {
          "type": "integer"
        }
      }
    }
  }
},
"S1e": {
  "type": "list",
  "member": {}
},
"S1f": {
  "type": "list",
  "member": {
    "type": "structure",
    "members": {
      "Key": {},
      "Value": {}
    }
  }
},
"S1h": {
  "type": "list",
  "member": {
    "type": "structure",
    "required": [
      "ResourceType",
      "ProductInformationFilterList"
    ],
    "members": {
      "ResourceType": {},
      "ProductInformationFilterList": {
        "type": "list",
        "member": {
          "type": "structure",
          "required": [
            "ProductInformationFilterName",
             "ProductInformationFilterComparator"
          ],
          "members": {
            "ProductInformationFilterName": {},
            "ProductInformationFilterValue": {
              "shape": "S1e"
```

```
          },
          "ProductInformationFilterComparator": {}
        }
      }
    }
  }
}
"S1n": {
  "type": "structure",
  "members": {
    "UsageOperation": {}
  }
},
"S1t": {
  "type": "list",
  "member": {}
},
"S1v": {
  "type": "structure",
  "required": [
    "licenseConfigurationArns"
  ],
  "members": {
    "licenseConfigurationArns": {
      "shape": "S1w"
    }
  }
},
"S1w": {
  "type": "list",
  "member": {}
},
"S1x": {
  "type": "structure",
  "members": {
    "value": {
      "type": "integer"
    },
    "period": {}
  }
},
"S25": {
  "type": "list",
   "member": {}
},
"S2r": {
  "type": "structure",
```

```
    "required": [
      "GrantArn",
      "GrantName",
      "ParentArn",
      "LicenseArn",
      "GranteePrincipalArn",
      "HomeRegion",
      "GrantStatus",
      "Version",
      "GrantedOperations"
    ],
    "members": {
      "GrantArn": {},
      "GrantName": {},
      "ParentArn": {},
      "LicenseArn": {},
      "GranteePrincipalArn": {},
      "HomeRegion": {},
      "GrantStatus": {},
      "StatusReason": {},
      "Version": {},
      "GrantedOperations": {
        "shape": "So"
      },
      "Options": {
        "shape": "St"
      }
    }
  },
  "S2u": {
    "type": "structure",
    "members": {
      "LicenseArn": {},
      "LicenseName": {},
      "ProductName": {},
      "ProductSKU": {},
      "Issuer": {
        "shape": "S2v"
      },
      "HomeRegion": {},
      "Status": {},
      "Validity": {
        "shape":
"Sy"
      },
      "Beneficiary": {},
      "Entitlements": {
        "shape": "Sz"
```

```
    },
    "ConsumptionConfiguration": {
      "shape": "S14"
    },
    "LicenseMetadata": {
      "shape": "Sd"
    },
    "CreateTime": {},
    "Version": {}
  }
},
"S2v": {
  "type": "structure",
  "members": {
    "Name": {},
    "SignKey": {},
    "KeyFingerprint": {}
  }
},
"S2y": {
  "type": "list",
  "member": {
    "type": "structure",
    "members": {
      "ResourceType": {},
      "ConsumedLicenses": {
        "type": "long"
      }
    }
  }
},
"S31": {
  "type": "list",
  "member": {
    "type": "structure",
    "members": {
      "ResourceType": {},
      "AssociationCount": {
        "type": "long"
      }
    }
  }
},
"S33": {
  "type": "structure",
  "members": {
    "LastRunTime": {
```

```
      "type": "timestamp"
    }
  }
},
"S3a": {
  "type": "structure",
  "members": {
    "ReportGeneratorName": {},
    "ReportType": {
      "shape": "S1t"
    },
    "ReportContext": {
      "shape": "S1v"
    },
    "ReportFrequency": {
      "shape": "S1x"
    },
    "LicenseManagerReportGeneratorArn": {},
    "LastRunStatus": {},
    "LastRunFailureReason": {},
    "LastReportGenerationTime": {},
    "ReportCreatorAccount": {},
    "Description": {},
    "S3Location": {
      "type": "structure",
      "members": {
        "bucket": {},
        "keyPrefix": {}
      }
    },
    "CreateTime": {},
    "Tags": {
      "shape": "S1f"
    }
  }
},
"S3j": {
  "type": "structure",
  "required": [
    "EnableIntegration"
  ],
  "members": {
    "EnableIntegration": {
      "type": "boolean"
    }
  }
},
```

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 "S3p": {
  "type": "list",
  "member": {
    "shape": "S3q"
  }
},
"S3q": {
  "type": "structure",
  "members": {
    "Name": {},
    "Values": {
      "type": "list",
      "member": {}
    }
  }
},
"S3w": {
  "type": "list",
  "member": {
    "shape": "S2r"
  }
},
"S42": {
  "type": "list",
  "member": {
    "shape": "S3q"
  }
},
"S4f": {
  "type": "list",
  "member": {
    "type": "structure",
    "required": [
      "LicenseConfigurationArn"
    ],
    "members": {
      "LicenseConfigurationArn": {},
      "AmiAssociationScope": {}
    }
  }
},
"S4j": {
  "type": "list",
  "member": {
    "shape": "S2u"
  }
},
"S4s": {
```

```
    "type": "list",
    "member": {
      "type": "structure",
      "members": {
        "LicenseArn": {},
        "LicenseName": {},
        "ProductName": {},
         "ProductSKU": {},
        "Issuer": {
          "shape": "S2v"
        },
        "HomeRegion": {},
        "Status": {},
        "Validity": {
          "shape": "Sy"
        },
        "Beneficiary": {},
        "Entitlements": {
          "shape": "Sz"
        },
        "ConsumptionConfiguration": {
          "shape": "S14"
        },
        "LicenseMetadata": {
          "shape": "Sd"
        },
        "CreateTime": {},
        "Version": {},
        "ReceivedMetadata": {
          "type": "structure",
          "members": {
            "ReceivedStatus": {},
            "ReceivedStatusReason": {},
            "AllowedOperations": {
              "shape": "So"
            }
          }
        }
      }
    }
  }
 }
}
```


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Repository: git://github.com/paulmillr/readdirp.git

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By: Ben Coe
Repository: https://github.com/tapjs/signal-exit.git

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no

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2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
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node-http-proxy

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{
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*/

// Original can be found at:
// https://bitbucket.org/lindenlab/llsd
// Modifications by Joshua Bell inexorabletash@gmail.com
// https://github.com/inexorabletash/polyfill

// ES3/ES5 implementation of the Krhonos Typed Array Specification
// Ref: http://www.khronos.org/registry/typedarray/specs/latest/
// Date: 2011-02-01

//
// Variations:
// * Allows typed_array.get/set() as alias for subscripts (typed_array[])
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    "output": {
      "type": "structure",
      "members": {
        "InstanceUserSummaries": {
          "type": "list",
          "member": {
            "shape": "S6"
          }
        },
        "NextToken": {}
      }
    }
  },
  "RegisterIdentityProvider":
{
    "http": {
      "requestUri": "/identity-provider/RegisterIdentityProvider",
      "responseCode": 200
    },
    "input": {
      "type": "structure",
      "required": [
        "IdentityProvider",
        "Product"
      ],
      "members": {
        "IdentityProvider": {
          "shape": "S3"
        },
```

```
      "Product": {},
      "Settings": {
        "shape": "Sa"
      }
    }
  },
  "output": {
    "type": "structure",
    "required": [
      "IdentityProviderSummary"
    ],
    "members": {
      "IdentityProviderSummary": {
        "shape": "S9"
      }
    }
  },
  "idempotent": true
},
"StartProductSubscription": {
  "http": {
    "requestUri": "/user/StartProductSubscription",
    "responseCode": 200
  },
  "input": {
    "type": "structure",
    "required": [
      "IdentityProvider",
      "Product",
       "Username"
    ],
    "members": {
      "Domain": {},
      "IdentityProvider": {
        "shape": "S3"
      },
      "Product": {},
      "Username": {}
    }
  },
  "output": {
    "type": "structure",
    "required": [
      "ProductUserSummary"
    ],
    "members": {
      "ProductUserSummary": {
        "shape": "Su"
```

```
      }
    }
  }
},
"StopProductSubscription": {
  "http": {
    "requestUri": "/user/StopProductSubscription",
    "responseCode": 200
  },
  "input": {
    "type": "structure",
    "required": [
      "IdentityProvider",
      "Product",
      "Username"
    ],
    "members": {
      "Domain": {},
      "IdentityProvider": {
        "shape": "S3"
      },
      "Product": {},
      "Username": {}
    }
  },
  "output": {
    "type": "structure",
    "required": [

  "ProductUserSummary"
    ],
    "members": {
      "ProductUserSummary": {
        "shape": "Su"
      }
    }
  }
},
"UpdateIdentityProviderSettings": {
  "http": {
    "requestUri": "/identity-provider/UpdateIdentityProviderSettings",
    "responseCode": 200
  },
  "input": {
    "type": "structure",
    "required": [
      "IdentityProvider",
      "Product",
```

```
        "UpdateSettings"
      ],
      "members": {
        "IdentityProvider": {
          "shape": "S3"
        },
        "Product": {},
        "UpdateSettings": {
          "type": "structure",
          "required": [
            "AddSubnets",
            "RemoveSubnets"
          ],
          "members": {
            "AddSubnets": {
              "shape": "S16"
            },
            "RemoveSubnets": {
              "shape": "S16"
            },
            "SecurityGroupId": {}
          }

  }
      }
    },
    "output": {
      "type": "structure",
      "required": [
        "IdentityProviderSummary"
      ],
      "members": {
        "IdentityProviderSummary": {
          "shape": "S9"
        }
      }
    },
    "idempotent": true
  }
},
"shapes": {
  "S3": {
    "type": "structure",
    "members": {
      "ActiveDirectoryIdentityProvider": {
        "type": "structure",
        "members": {
          "DirectoryId": {}
```

```
        }
      }
    },
    "union": true
  },
  "S6": {
    "type": "structure",
    "required": [
      "IdentityProvider",
      "InstanceId",
      "Status",
      "Username"
    ],
    "members": {
      "AssociationDate": {},
      "DisassociationDate": {},
      "Domain": {},
      "IdentityProvider": {
        "shape": "S3"
      },
      "InstanceId": {},
      "Status": {},
      "StatusMessage": {},
      "Username": {}
    }
  },
  "S9":
{
    "type": "structure",
    "required": [
      "IdentityProvider",
      "Product",
      "Settings",
      "Status"
    ],
    "members": {
      "FailureMessage": {},
      "IdentityProvider": {
        "shape": "S3"
      },
      "Product": {},
      "Settings": {
        "shape": "Sa"
      },
      "Status": {}
    }
  },
  "Sa": {
```

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    "type": "structure",
    "required": [
      "SecurityGroupId",
      "Subnets"
    ],
    "members": {
      "SecurityGroupId": {},
      "Subnets": {
        "type": "list",
        "member": {}
      }
    }
  },
  "Sl": {
    "type": "list",
    "member": {
      "type": "structure",
      "members": {
        "Attribute": {},
        "Operation": {},
        "Value": {}
      }
    }
  },
  "Su": {
    "type": "structure",
    "required": [
      "IdentityProvider",
      "Product",
      "Status",
      "Username"
    ],
    "members":
{
      "Domain": {},
      "IdentityProvider": {
        "shape": "S3"
      },
      "Product": {},
      "Status": {},
      "StatusMessage": {},
      "SubscriptionEndDate": {},
      "SubscriptionStartDate": {},
      "Username": {}
    }
  },
  "S16": {
    "type": "list",
```

"member": {}
}
}
}
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@rushstack/eslint-patch

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Some files from the tests folder are from joyent/node and mscedex/io.js, a fork

of nodejs/io.js:

- tests/iojs/test-http-parser-durability.js

This file is from https://github.com/mscdex/io.js/blob/js-http-parser/test/pummel/test-http-parser-durability.js
with modifications by Jan Schr (jscissr).

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"""

- tests/fixtures/*
tests/parallel/*
tests/testpy/*
tests/common.js
tests/test.py
tests/utils.py

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1.6398 react-dev-utils/node_modules/color-name 1.1.4

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3.1.0 / 2017-09-26
==========

* Add `DEBUG_HIDE_DATE` env var (#486)
* Remove ReDoS regexp in %o formatter (#504)
* Remove "component" from package.json
* Remove `component.json`
* Ignore package-lock.json
* Examples: fix colors printout
* Fix: browser detection
* Fix: spelling mistake (#496, @EdwardBetts)

3.0.1 / 2017-08-24
==========

* Fix: Disable colors in Edge and Internet Explorer (#489)

3.0.0 / 2017-08-08
==========

* Breaking: Remove DEBUG_FD (#406)
* Breaking: Use `Date#toISOString()` instead to `Date#toUTCString()` when output is not a TTY (#418)
* Breaking: Make millisecond timer namespace specific and allow 'always enabled' output (#408)
* Addition: document `enabled` flag (#465)
* Addition: add 256 colors mode (#481)
* Addition: `enabled()` updates existing debug instances, add `destroy()` function (#440)
* Update: component: update "ms" to v2.0.0
* Update: separate the Node and Browser tests in Travis-CI
* Update:
refactor Readme, fixed documentation, added "Namespace Colors" section, redid screenshots
* Update: separate Node.js and web browser examples for organization
* Update: update "browserify" to v14.4.0
* Fix: fix Readme typo (#473)

2.6.9 / 2017-09-22
==========

* remove ReDoS regexp in %o formatter (#504)

2.6.8 / 2017-05-18
==========

* Fix: Check for undefined on browser globals (#462, @marbemac)

2.6.7 / 2017-05-16
==========

* Fix: Update ms to 2.0.0 to fix regular expression denial of service vulnerability (#458, @hubdotcom)
* Fix: Inline extend function in node implementation (#452, @dougwilson)
* Docs: Fix typo (#455, @msasad)

2.6.5 / 2017-04-27
==========

* Fix: null reference check on window.documentElement.style.WebkitAppearance (#447, @thebigredgeek)
* Misc: clean up browser reference checks (#447, @thebigredgeek)
* Misc: add npm-debug.log to .gitignore (@thebigredgeek)

2.6.4 / 2017-04-20
==========

* Fix: bug that would occur if process.env.DEBUG is a non-string value. (#444, @LucianBuzzo)
* Chore: ignore bower.json in npm installations. (#437, @joaovieira)
* Misc: update "ms" to v0.7.3 (@tootallnate)

2.6.3 / 2017-03-13
==========

* Fix: Electron reference to `process.env.DEBUG` (#431, @paulcbetts)
* Docs: Changelog fix (@thebigredgeek)

2.6.2 / 2017-03-10
==========

* Fix: DEBUG_MAX_ARRAY_LENGTH (#420, @slavaGanzin)
* Docs: Add backers and sponsors from Open Collective (#422, @piamancini)
* Docs: Add Slackin invite badge (@tootallnate)

2.6.1 / 2017-02-10
==========

* Fix: Module's `export default` syntax fix for IE8 `Expected identifier` error
* Fix: Whitelist DEBUG_FD for values 1 and 2 only (#415, @pi0)
* Fix: IE8 "Expected identifier" error (#414, @vgoma)
* Fix: Namespaces would not disable once enabled (#409, @musikov)

2.6.0 / 2016-12-28
==========

* Fix: added better null pointer checks for browser useColors

(@thebigredgeek)
* Improvement: removed explicit `window.debug` export (#404, @tootallnate)
* Improvement: deprecated `DEBUG_FD` environment variable (#405, @tootallnate)

2.5.2 / 2016-12-25
==========

* Fix: reference error on window within webworkers (#393, @KlausTrainer)
* Docs: fixed README typo (#391, @lurch)
* Docs: added notice about v3 api discussion (@thebigredgeek)

2.5.1 / 2016-12-20
==========

* Fix: babel-core compatibility

2.5.0 / 2016-12-20
==========

* Fix: wrong reference in bower file (@thebigredgeek)
* Fix: webworker compatibility (@thebigredgeek)
* Fix: output formatting issue (#388, @kribblo)
* Fix: babel-loader compatibility (#383, @escwald)
* Misc: removed built asset from repo and publications (@thebigredgeek)
* Misc: moved source files to /src (#378, @yamikuronue)
* Test: added karma integration and replaced babel with browserify for browser tests (#378, @yamikuronue)
* Test: coveralls integration (#378,
@yamikuronue)
* Docs: simplified language in the opening paragraph (#373, @yamikuronue)

2.4.5 / 2016-12-17
==========

* Fix: `navigator` undefined in Rhino (#376, @jochenberger)
* Fix: custom log function (#379, @hsiliev)
* Improvement: bit of cleanup + linting fixes (@thebigredgeek)
* Improvement: rm non-maintainted `dist/` dir (#375, @freewil)
* Docs: simplified language in the opening paragraph. (#373, @yamikuronue)

2.4.4 / 2016-12-14
==========

* Fix: work around debug being loaded in preload scripts for electron (#368, @paulcbetts)

2.4.3 / 2016-12-14
==========

* Fix: navigation.userAgent error for react native (#364, @escwald)

2.4.2 / 2016-12-14
==========

* Fix: browser colors (#367, @tootallnate)
* Misc: travis ci integration (@thebigredgeek)
* Misc: added linting and testing boilerplate with sanity check (@thebigredgeek)

2.4.1 / 2016-12-13
==========

* Fix: typo that broke the package (#356)

2.4.0 / 2016-12-13
==========

* Fix: bower.json references unbuilt src entry point (#342, @justmatt)
* Fix: revert "handle regex special characters" (@tootallnate)
* Feature: configurable util.inspect()`options for NodeJS (#327, @tootallnate)
* Feature: %O`(big O) pretty-prints objects (#322, @tootallnate)
* Improvement: allow colors in workers (#335, @botverse)
* Improvement: use same color for same namespace. (#338, @lchenay)

2.3.3 / 2016-11-09
==========

* Fix: Catch `JSON.stringify()` errors (#195, Jovan Alleyne)
* Fix: Returning `localStorage` saved values (#331, Levi Thomason)
* Improvement: Don't create an empty object when no `process` (Nathan Rajlich)

2.3.2 / 2016-11-09
==========

* Fix: be super-safe in index.js as well (@TooTallNate)
* Fix: should check whether process exists (Tom Newby)

2.3.1 / 2016-11-09
==========

* Fix: Added electron compatibility (#324, @paulcbetts)
* Improvement: Added performance optimizations (@tootallnate)
* Readme: Corrected PowerShell environment variable example (#252, @gimre)
* Misc: Removed yarn lock file from source control (#321, @fengmk2)

2.3.0 / 2016-11-07
==========

* Fix: Consistent placement of ms diff at end of output (#215, @gorangajic)

* Fix: Escaping of regex special characters in namespace strings (#250, @zacronos)
* Fix: Fixed bug causing crash on react-native (#282, @vkarpov15)
* Feature: Enabled ES6+ compatible import via default export (#212 @bucaran)
* Feature: Added %O formatter to reflect Chrome's console.log capability (#279, @oncletom)
* Package: Update "ms" to 0.7.2 (#315, @DevSide)
* Package: removed superfluous version property from bower.json (#207 @kkirsche)
* Readme: fix USE_COLORS to DEBUG_COLORS
* Readme: Doc fixes for format string sugar (#269, @mlucool)
* Readme: Updated docs for DEBUG_FD and DEBUG_COLORS environment variables (#232, @mattlyons0)
* Readme: doc fixes for PowerShell (#271 #243, @exoticknight
@unreadable)
* Readme: better docs for browser support (#224, @matthewmueller)
* Tooling: Added yarn integration for development (#317, @thebigredgeek)
* Misc: Renamed History.md to CHANGELOG.md (@thebigredgeek)
* Misc: Added license file (#226 #274, @CantemoInternal @sdaitzman)
* Misc: Updated contributors (@thebigredgeek)

2.2.0 / 2015-05-09
==========

* package: update "ms" to v0.7.1 (#202, @dougwilson)
* README: add logging to file example (#193, @DanielOchoa)
* README: fixed a typo (#191, @amir-s)
* browser: expose `storage` (#190, @stephenmathieson)
* Makefile: add a `distclean` target (#189, @stephenmathieson)

2.1.3 / 2015-03-13
==========

* Updated stdout/stderr example (#186)
* Updated example/stdout.js to match debug current behaviour
* Renamed example/stderr.js to stdout.js
* Update Readme.md (#184)
* replace high intensity foreground color for bold (#182, #183)

2.1.2 / 2015-03-01
==========

* dist: recompile
*
update "ms" to v0.7.0
* package: update "browserify" to v9.0.3
* component: fix "ms.js" repo location
* changed bower package name
* updated documentation about using debug in a browser
* fix: security error on safari (#167, #168, @yields)

2.1.1 / 2014-12-29

==========

* browser: use `typeof` to check for `console` existence
* browser: check for `console.log` truthiness (fix IE 8/9)
* browser: add support for Chrome apps
* Readme: added Windows usage remarks
* Add `bower.json` to properly support bower install

2.1.0 / 2014-10-15
==========

* node: implement `DEBUG_FD` env variable support
* package: update "browserify" to v6.1.0
* package: add "license" field to package.json (#135, @panuhorsmalahti)

2.0.0 / 2014-09-01
==========

* package: update "browserify" to v5.11.0
* node: use stderr rather than stdout for logging (#29, @stephenmathieson)

1.0.4 / 2014-07-15
==========

* dist: recompile
* example: remove `console.info()`
log usage
* example: add "Content-Type" UTF-8 header to browser example
* browser: place %c marker after the space character
* browser: reset the "content" color via `color: inherit`
* browser: add colors support for Firefox >= v31
* debug: prefer an instance `log()` function over the global one (#119)
* Readme: update documentation about styled console logs for FF v31 (#116, @wryk)

1.0.3 / 2014-07-09
==========

* Add support for multiple wildcards in namespaces (#122, @seegno)
* browser: fix lint

1.0.2 / 2014-06-10
==========

* browser: update color palette (#113, @gscottolson)
* common: make console logging function configurable (#108, @timoxley)
* node: fix %o colors on old node <= 0.8.x
* Makefile: find node path using shell/which (#109, @timoxley)

1.0.1 / 2014-06-06
==========

 * browser: use `removeItem()` to clear localStorage
 * browser, node: don't set DEBUG if namespaces is undefined (#107, @leedm777)
 * package:
 add "contributors" section
 * node: fix comment typo
 * README: list authors

1.0.0 / 2014-06-04
==========

 * make ms diff be global, not be scope
 * debug: ignore empty strings in enable()
 * node: make DEBUG_COLORS able to disable coloring
 * *: export the `colors` array
 * npmignore: don't publish the `dist` dir
 * Makefile: refactor to use browserify
 * package: add "browserify" as a dev dependency
 * Readme: add Web Inspector Colors section
 * node: reset terminal color for the debug content
 * node: map "%o" to `util.inspect()`
 * browser: map "%j" to `JSON.stringify()`
 * debug: add custom "formatters"
 * debug: use "ms" module for humanizing the diff
 * Readme: add "bash" syntax highlighting
 * browser: add Firebug color support
 * browser: add colors for WebKit browsers
 * node: apply log to `console`
 * rewrite: abstract common logic for Node & browsers
 * add .jshintrc file

0.8.1 / 2014-04-14
==========

 * package: re-add the
 "component" section

0.8.0 / 2014-03-30
==========

 * add `enable()` method for nodejs. Closes #27
 * change from stderr to stdout
 * remove unnecessary index.js file

0.7.4 / 2013-11-13
==========

* remove "browserify" key from package.json (fixes something in browserify)

0.7.3 / 2013-10-30
==========

* fix: catch localStorage security error when cookies are blocked (Chrome)
* add debug(err) support. Closes #46
* add .browser prop to package.json. Closes #42

0.7.2 / 2013-02-06
==========

* fix package.json
* fix: Mobile Safari (private mode) is broken with debug
* fix: Use unicode to send escape character to shell instead of octal to work with strict mode javascript

0.7.1 / 2013-02-05
==========

* add repository URL to package.json
* add DEBUG_COLORED to force colored output
* add browserify support
* fix component. Closes #24

0.7.0 / 2012-05-04
==========

* Added .component to package.json
* Added
debug.component.js build

0.6.0 / 2012-03-16
==========

* Added support for "-" prefix in DEBUG [Vinay Pulim]
* Added `.enabled` flag to the node version [TooTallNate]

0.5.0 / 2012-02-02
==========

* Added: humanize diffs. Closes #8
* Added `debug.disable()` to the CS variant
* Removed padding. Closes #10
* Fixed: persist client-side variant again. Closes #9

0.4.0 / 2012-02-01
==========

* Added browser variant support for older browsers [TooTallNate]
* Added `debug.enable('project:*')` to browser variant [TooTallNate]
* Added padding to diff (moved it to the right)

0.3.0 / 2012-01-26
==========

* Added millisecond diff when isatty, otherwise UTC string

0.2.0 / 2012-01-22
==========

* Added wildcard support

0.1.0 / 2011-12-02
==========

* Added: remove colors unless stderr isatty [TooTallNate]

0.0.1 / 2010-01-03
==========

* Initial release

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```
{
 "name": "",
 'version': "",
 "description": "",
 "licenses": ""
 "licenseFile": "none",
 "licenseModified": "no"
#!/usr/bin/env node

/*
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Code licensed under the BSD License:
http://yuilibrary.com/license/
*/

var checker = require('../lib/index');

var args = require('../lib/args').parse();
var mkdirp = require('mkdirp');
var path = require('path');
var chalk = require('chalk');
var fs = require('fs');

if (args.help) {
  console.error('license-checker@' + require('../package.json').version);
  var usage = [
    '',
    '  --production only show production dependencies.',
    '  --development only show development dependencies.',
    '  --unknown report guessed licenses as unknown licenses.',
    '  --start [path of the initial json to look for]',
    '  --onlyunknown only list packages with unknown or guessed licenses.',
    '  --json output in json format.',
    '  --csv output in csv format.',
    '  --csvComponentPrefix column prefix for components in csv file',
    '  --out [filepath] write
 the data to a specific file.',
    '  --customPath to add a custom Format file in JSON',
    '  --exclude [list] exclude modules which licenses are in the comma-separated list from the output',
    '  --relativeLicensePath output the location of the license files as relative paths',
    '  --summary output a summary of the license usage',
    '  --failOn [list] fail (exit with code 1) on the first occurrence of the licenses of the semicolon-separated list',
    '  --onlyAllow [list] fail (exit with code 1) on the first occurrence of the licenses not in the semicolon-seperated
list',
    '  --direct look for direct dependencies only',
```

```
      '   --packages [list] restrict output to the packages (package@version) in the semicolon-seperated list',
      '   --excludePackages [list] restrict output to the packages (package@version) not in the semicolon-seperated list',
      '   --excludePrivatePackages restrict output to not include any package marked as private',
      '',
      '   --version The current version',
      '   --help  The text you are reading right now :)',
      ''
  ];
  console.error(usage.join('\n'), '\n');
  process.exit(0);
}

if (args.version) {
  console.error(require('../package.json').version);
  process.exit(1);
}

if (args.failOn && args.onlyAllow) {
  console.error('--failOn and --onlyAllow can not be used at the same time. Choose one or the other.');
  process.exit(1);
} else {
  var argValue = args.failOn || args.onlyAllow;
  if (argValue && argValue.indexOf(',') >= 0) {
    var argName = args.failOn ? 'failOn' : 'onlyAllow';
    console.warn('Warning: As of v17 the --' + argName + ' argument takes semicolons as delimeters instead of commas (some license names can contain commas)');
  }
}

checker.init(args, function(err, json) {

  var formattedOutput = '';

  if (!!err) {
    console.error('Found error');
    console.error(err);
  }

  if (shouldColorizeOutput(args))
 {
    var keys = Object.keys(json);
    keys.forEach(function(key) {
      var keyParts = key.split('@');
      var colorizedKey = chalk.blue(keyParts[0]) + chalk.dim('@') + chalk.green(keyParts[1]);
      json[colorizedKey] = json[key];
      delete json[key];
```

```
    });
  }

  if (args.json) {
    formattedOutput = JSON.stringify(json, null, 2) + '\n';
  } else if (args.csv) {
    formattedOutput = checker.asCSV(json, args.customFormat, args.csvComponentPrefix);
  } else if (args.markdown){
    formattedOutput = checker.asMarkDown(json, args.customFormat) + '\n';
  } else if (args.summary) {
    formattedOutput = checker.asSummary(json);
  } else {
    formattedOutput = checker.asTree(json);
  }

  if (args.files) {
    checker.asFiles(json, args.files);
  } else if (args.out) {
    var dir = path.dirname(args.out);
    mkdirp.sync(dir);
    fs.writeFileSync(args.out, formattedOutput,
 'utf8');
  } else {
    console.log(formattedOutput);
  }
});

function shouldColorizeOutput(args) {
  return args.color && !args.out && !(args.csv || args.json || args.markdown);
}
```

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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Thanks to the many outside volunteers who have worked under Guido's
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<img width="647" src="https://user-images.githubusercontent.com/71256/29091486-fa38524c-7c37-11e7-895f-e7ec8e1039b6.png">

A tiny JavaScript debugging utility modelled after Node.js core's debugging

technique. Works in Node.js and web browsers.

Installation

```bash
$ npm install debug
```

Usage

`debug` exposes a function; simply pass this function the name of your module, and it will return a decorated version of `console.error`
 for you to pass debug statements to. This will allow you to toggle the debug output for different parts of your module as well as the module as a whole.

Example [_app.js_](./examples/node/app.js):

```js
var debug = require('debug')('http')
 , http = require('http')
 , name = 'My App';

// fake app

debug('booting %o', name);

http.createServer(function(req, res){
 debug(req.method + ' ' + req.url);
 res.end('hello\n');
}).listen(3000, function(){
 debug('listening');
});

// fake worker of some kind

require('./worker');
```

Example [_worker.js_](./examples/node/worker.js):

```js
var a = require('debug')('worker:a')
 , b = require('debug')('worker:b');

function work() {
 a('doing lots of uninteresting work');
 setTimeout(work, Math.random() * 1000);
}
```

```
work();

function workb() {
 b('doing some work');
 setTimeout(workb, Math.random() * 2000);
}

workb();
```

The `DEBUG` environment variable is then used to enable these based on space or comma-delimited names.

Here
 are some examples:

<img width="647" alt="screen shot 2017-08-08 at 12 53 04 pm" src="https://user-images.githubusercontent.com/71256/29091703-a6302cdc-7c38-11e7-8304-7c0b3bc600cd.png">
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Windows command prompt notes

CMD

On Windows the environment variable is set using the `set` command.

```cmd
set DEBUG=*,-not_this
```

Example:

```cmd
set DEBUG=* & node app.js
```

PowerShell (VS Code default)

PowerShell uses different syntax to set environment variables.

```cmd
$env:DEBUG = "*,-not_this"
```

Example:

```cmd
$env:DEBUG='app';node app.js
```

Then, run the program to be debugged as usual.

npm script example:
```js
 "windowsDebug":
 "@powershell -Command $env:DEBUG='*';node app.js",
```

Namespace Colors

Every debug instance has a color generated for it based on its namespace name.
This helps when visually parsing the debug output to identify which debug instance
a debug line belongs to.

Node.js

In Node.js, colors are enabled when stderr is a TTY. You also _should_ install
the [`supports-color`](https://npmjs.org/supports-color) module alongside debug,
otherwise debug will only use a small handful of basic colors.

<img width="521" src="https://user-images.githubusercontent.com/71256/29092181-47f6a9e6-7c3a-11e7-9a14-1928d8a711cd.png">

Web Browser

Colors are also enabled on "Web Inspectors" that understand the `%c` formatting
option. These are WebKit web inspectors, Firefox ([since version
31](https://hacks.mozilla.org/2014/05/editable-box-model-multiple-selection-sublime-text-keys-much-more-firefox-developer-tools-episode-31/))
and the Firebug plugin for Firefox (any version).

<img width="524"
 src="https://user-images.githubusercontent.com/71256/29092033-b65f9f2e-7c39-11e7-8e32-f6f0d8e865c1.png">

Millisecond diff

When actively developing an application it can be useful to see when the time spent between one `debug()` call and the next. Suppose for example you invoke `debug()` before requesting a resource, and after as well, the "+NNNms" will show you how much time was spent between calls.

<img width="647" src="https://user-images.githubusercontent.com/71256/29091486-fa38524c-7c37-11e7-895f-

e7ec8e1039b6.png">

When stdout is not a TTY, `Date#toISOString()` is used, making it more useful for logging the debug information as shown below:

<img width="647" src="https://user-images.githubusercontent.com/71256/29091956-6bd78372-7c39-11e7-8c55-c948396d6edd.png">

Conventions

If you're using this in one or more of your libraries, you _should_ use the name of your library so that developers may toggle debugging as desired without guessing names. If you have more than one debuggers you _should_ prefix them with your library name and use ":" to separate features. For example "bodyParser" from Connect would then be "connect:bodyParser". If you append a "*" to the end of your name, it will always be enabled regardless of the setting of the DEBUG environment variable. You can then use it for normal output as well as debug output.

Wildcards

The `*` character may be used as a wildcard. Suppose for example your library has debuggers named "connect:bodyParser", "connect:compress", "connect:session", instead of listing all three with `DEBUG=connect:bodyParser,connect:compress,connect:session`, you may simply do `DEBUG=connect:*`, or to run everything using this module simply use `DEBUG=*`.

You can also exclude specific debuggers by prefixing them with a "-" character. For example, `DEBUG=*,-connect:*` would include all debuggers except those starting with "connect:".

Environment Variables

When running through Node.js, you can set a few environment variables that will change the behavior of the debug logging:

Name	Purpose
`DEBUG`	Enables/disables specific debugging namespaces.
`DEBUG_HIDE_DATE`	Hide date from debug output (non-TTY).
`DEBUG_COLORS`	Whether or not to use colors in the debug output.
`DEBUG_DEPTH`	Object inspection depth.
`DEBUG_SHOW_HIDDEN`	Shows hidden properties on inspected objects.

__Note:__ The environment variables beginning with `DEBUG_` end up being converted into an Options object that gets used with `%o`/`%O` formatters. See the Node.js documentation for

[`util.inspect()`](https://nodejs.org/api/util.html#util_util_inspect_object_options)
for the complete list.

Formatters

Debug uses [printf-style](https://wikipedia.org/wiki/Printf_format_string) formatting.
Below are the officially supported formatters:

Formatter	Representation
`%O`	Pretty-print an Object on multiple lines.
`%o`	Pretty-print an Object all on a single line.
`%s`	String.
`%d`	Number (both integer and float).
`%j`	JSON. Replaced with the string '[Circular]' if the argument contains circular references.
`%%`	Single percent sign ('%'). This does not consume an argument.

Custom formatters

You can add custom formatters by extending the `debug.formatters` object.
For example, if you wanted to add support for rendering a Buffer as hex with
`%h`, you could do something like:

```js
const createDebug = require('debug')
createDebug.formatters.h = (v) => {
 return v.toString('hex')
}

// elsewhere
const debug = createDebug('foo')
debug('this is hex: %h', new Buffer('hello world'))
//   foo this is hex: 68656c6c6f20776f726c6421 +0ms
```

Browser Support

You can build a browser-ready script using [browserify](https://github.com/substack/node-browserify),
or
 just use the [browserify-as-a-service](https://wzrd.in/) [build](https://wzrd.in/standalone/debug@latest),
if you don't want to build it yourself.

Debug's enable state is currently persisted by `localStorage`.
Consider the situation shown below where you have `worker:a` and `worker:b`,
and wish to debug both. You can enable this using `localStorage.debug`:

```js
localStorage.debug = 'worker:*'
```

And then refresh the page.

```js
a = debug('worker:a');
b = debug('worker:b');

setInterval(function(){
 a('doing some work');
}, 1000);

setInterval(function(){
 b('doing some work');
}, 1200);
```

Output streams

By default `debug` will log to stderr, however this can be configured per-namespace by overriding the `log` method:

Example [_stdout.js_](./examples/node/stdout.js):

```js
var debug = require('debug');
var error = debug('app:error');

// by default stderr is used
error('goes to stderr!');

var log = debug('app:log');
// set this namespace to log via console.log
log.log
 = console.log.bind(console); // don't forget to bind to console!
log('goes to stdout');
error('still goes to stderr!');

// set all output to go via console.info
// overrides all per-namespace log settings
debug.log = console.info.bind(console);
error('now goes to stdout via console.info');
log('still goes to stdout, but via console.info now');
```

Extend
You can simply extend debugger
```js
const log = require('debug')('auth');

//creates new debug instance with extended namespace
const logSign = log.extend('sign');
const logLogin = log.extend('login');

log('hello'); // auth hello
logSign('hello'); //auth:sign hello
logLogin('hello'); //auth:login hello
```

Set dynamically

You can also enable debug dynamically by calling the `enable()` method :

```js
let debug = require('debug');

console.log(1, debug.enabled('test'));

debug.enable('test');
console.log(2, debug.enabled('test'));

debug.disable();
console.log(3, debug.enabled('test'));

```

print :
```
1
 false
2 true
3 false
```

Usage :
`enable(namespaces)`
`namespaces` can include modes separated by a colon and wildcards.

Note that calling `enable()` completely overrides previously set DEBUG variable :

```
$ DEBUG=foo node -e 'var dbg = require("debug"); dbg.enable("bar"); console.log(dbg.enabled("foo"))'
```

=> false
```

## Checking whether a debug target is enabled

After you've created a debug instance, you can determine whether or not it is enabled by checking the `enabled` property:

```javascript
const debug = require('debug')('http');

if (debug.enabled) {
 // do stuff...
}
```

You can also manually toggle this property to force the debug instance to be enabled or disabled.

Authors

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- Nathan Rajlich
- Andrew Rhyne

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node-http-proxy

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* https://github.com/josdejong/workerpool
*
* Offload tasks to a pool of workers on node.js and in the browser.
*
* @version 6.1.5
* @date    2021-06-17
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    "browser": true
  }
}
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language: node_js
node_js:
  - "6"
  - "8"
cache:
  directories:
    - "node_modules"
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NPM License Checker
==========

[![Build Status](https://www.travis-ci.org/davglass/license-checker.svg?branch=master)](https://www.travis-ci.org/davglass/license-checker)

*As of v17.0.0 the `failOn` and `onlyAllow` arguments take semicolons as delimeters instead of commas. Some license names contain
commas and it messed with the parsing*

Ever needed to see all the license info for a module and its dependencies?

It's this easy:

```shell
npm install -g license-checker

mkdir foo
cd foo
npm install yui-lint
license-checker
```

You should see something like this:

```
cli@0.4.3
  repository: http://github.com/chriso/cli
  licenses: MIT
glob@3.1.14
```

```
  repository: https://github.com/isaacs/node-glob
  licenses: UNKNOWN
graceful-fs@1.1.14
  repository: https://github.com/isaacs/node-graceful-fs
  licenses: UNKNOWN
inherits@1.0.0
  repository: https://github.com/isaacs/inherits
  licenses: UNKNOWN
jshint@0.9.1
  licenses: MIT
lru-cache@1.0.6
  repository: https://github.com/isaacs/node-lru-cache
   licenses: MIT
lru-cache@2.0.4
  repository: https://github.com/isaacs/node-lru-cache
  licenses: MIT
minimatch@0.0.5
  repository: https://github.com/isaacs/minimatch
  licenses: MIT
minimatch@0.2.9
  repository: https://github.com/isaacs/minimatch
  licenses: MIT
sigmund@1.0.0
  repository: https://github.com/isaacs/sigmund
  licenses: UNKNOWN
yui-lint@0.1.1
   licenses: BSD
     repository: http://github.com/yui/yui-lint
```

An asterisk next to a license name means that it was deduced from
an other file than package.json (README, LICENSE, COPYING, ...)
You could see something like this:

```
debug@2.0.0
   repository: https://github.com/visionmedia/debug
   licenses: MIT*
```

Options
---

* `--production` only show production dependencies.
* `--development` only show development dependencies.
* `--start [path of the initial json to look for]`
* `--unknown` report guessed licenses as unknown licenses.
* `--onlyunknown` only list

packages with unknown or guessed licenses.
* `--json` output in json format.
* `--csv` output in csv format.
* `--csvComponentPrefix` prefix column for component in csv format.
* `--out [filepath]` write the data to a specific file.
* `--customPath` to add a custom Format file in JSON
* `--exclude [list]` exclude modules which licenses are in the comma-separated list from the output
* `--relativeLicensePath` output the location of the license files as relative paths
* `--summary` output a summary of the license usage',
* `--failOn [list]` fail (exit with code 1) on the first occurrence of the licenses of the semicolon-separated list
* `--onlyAllow [list]` fail (exit with code 1) on the first occurrence of the licenses not in the semicolon-seperated list
* `--packages [list]` restrict output to the packages (package@version) in the semicolon-seperated list
* `--excludePackages [list]` restrict output to the packages (package@version) not in the semicolon-seperated list
* `--excludePrivatePackages`
 restrict output to not include any package marked as private
* `--direct look for direct dependencies only`

Exclusions

A list of licenses is the simplest way to describe what you want to exclude.

You can use valid [SPDX identifiers](https://spdx.org/licenses/).
You can use valid SPDX expressions like `MIT OR X11`.
You can use non-valid SPDX identifiers, like `Public Domain`, since `npm` does
support some license strings that are not SPDX identifiers.

Examples

```
license-checker --json > /path/to/licenses.json
license-checker --csv --out /path/to/licenses.csv
license-checker --unknown
license-checker --customPath customFormatExample.json
license-checker --exclude 'MIT, MIT OR X11, BSD, ISC'
license-checker --packages 'react@16.3.0;react-dom@16.3.0;lodash@4.3.1'
license-checker --excludePackages 'internal-1;internal-2'
license-checker --onlyunknown
```

Custom format

The `--customPath` option can be used with CSV to specify the columns.
 Note that
the first column, `module_name`, will always be used.

When used with JSON format, it will add the specified items to the usual ones.

The available items are the following:
- name
- version
- description
- repository
- publisher
- email
- url
- licenses
- licenseFile
- licenseText
- licenseModified

You can also give default values for each item.
See an example in customFormatExample.json.

Requiring

```js
var checker = require('license-checker');

checker.init({
  start: '/path/to/start/looking'
}, function(err, packages) {
  if (err) {
    //Handle error
  } else {
    //The sorted package data
    //as an Object
  }
});
```

Debugging
---

license-checker uses [debug](https://www.npmjs.com/package/debug) for internal logging. Theres two internal markers:

* `license-checker:error` for errors
* `license-checker:log` for non-errors

Set the `DEBUG` environment variable to one of these to see debug output:

```shell
```

```
$
 export DEBUG=license-checker*; license-checker
scanning ./yui-lint
cli@0.4.3
  repository: http://github.com/chriso/cli
  licenses: MIT
# ...
```

How Licenses are Found

We walk through the `node_modules` directory with the [`read-installed`](https://www.npmjs.org/package/read-installed) module. Once we gathered a list of modules we walk through them and look at all of their `package.json`'s, We try to identify the license with the [`spdx`](https://www.npmjs.com/package/spdx) module to see if it has a valid SPDX license attached. If that fails, we then look into the module for the following files: `LICENSE`, `LICENCE`, `COPYING`, & `README`.

If one of the those files are found (in that order) we will attempt to parse the license data from it with a list of known license texts. This will be shown with the `*` next to the name of the license to show that we "guessed" at it.
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spdx-license-ids

[![npm version](https://img.shields.io/npm/v/spdx-license-ids.svg)](https://www.npmjs.com/package/spdx-license-ids)
[![Github Actions](https://action-badges.now.sh/shinnn/spdx-license-ids)](https://wdp9fww0r9.execute-api.us-west-2.amazonaws.com/production/results/shinnn/spdx-license-ids)

A list of [SPDX license](https://spdx.org/licenses/) identifiers

Installation

[Download JSON directly](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/index.json), or [use](https://docs.npmjs.com/cli/install) [npm](https://docs.npmjs.com/about-npm/):

```
npm install spdx-license-ids
```

[Node.js](https://nodejs.org/) API

require('spdx-license-ids')

Type: `string[]`

All license IDs except for the currently deprecated ones.

```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'ADSL', 'AFL-1.1', 'AFL-1.2', 'AFL-2.0', 'AFL-2.1', 'AFL-3.0', 'AGPL-1.0-only', ...]

ids.includes('BSD-3-Clause'); //=> true
ids.includes('CC-BY-1.0'); //=>
 true

ids.includes('GPL-3.0'); //=> false
```

require('spdx-license-ids/deprecated')

Type: `string[]`

Deprecated license IDs.

```javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
//=> ['AGPL-1.0', 'AGPL-3.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', 'GPL-2.0', ...]

deprecatedIds.includes('BSD-3-Clause'); //=> false
deprecatedIds.includes('CC-BY-1.0'); //=> false

deprecatedIds.includes('GPL-3.0'); //=> true
```

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  reports:
    - lcov
    - text
    - text-summary
check:
  global:
    statements: 95
    lines: 95
    branches: 90
    functions: 100
```

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By: Gulp Team, Elan Shanker, Blaine Bublitz
Repository: gulpjs/glob-parent

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hash.js
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Repository: git@github.com:indutny/hash.js

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inherits
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Repository: jonschlinkert/is-number

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magic-string
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Repository: micromatch/picomatch

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readdirp
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By: Thorsten Lorenz, Paul Miller
Repository: git://github.com/paulmillr/readdirp.git

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By: Valerio Proietti
Repository: git://github.com/kamicane/require-relative.git

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signal-exit
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Ben Coe
Repository: https://github.com/tapjs/signal-exit.git

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sourcemap-codec
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By: Rich Harris
Repository: https://github.com/Rich-Harris/sourcemap-codec

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public domain
validate-npm-package-license
==========

Give me a string and I'll tell you if it's a valid npm package license string.

```javascript
var valid = require('validate-npm-package-license');
```

SPDX license identifiers are valid license strings:

```javascript

var assert = require('assert');
var validSPDXExpression = {
 validForNewPackages: true,
 validForOldPackages: true,
 spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
```
The function will return a warning and suggestion for nearly-correct license identifiers:

```javascript
assert.deepEqual(
 valid('Apache 2.0'),
 {
   validForOldPackages: false,
   validForNewPackages: false,
   warnings: [
```

```
    'license should be ' +
    'a valid SPDX license expression (without "LicenseRef"), ' +
    '"UNLICENSED", or ' +
     '"SEE LICENSE IN <filename>"',
    'license is similar to the valid expression "Apache-2.0"'
  ]
 }
);
```

SPDX expressions are valid, too ...

```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
 valid('(GPL-3.0-only OR BSD-2-Clause)'),
 validSPDXExpression
);
```

... except if they contain `LicenseRef`:

```javascript
var warningAboutLicenseRef = {
 validForOldPackages: false,
 validForNewPackages: false,
 spdx: true,
 warnings: [
  'license should be ' +
  'a valid SPDX license expression (without "LicenseRef"), ' +
  '"UNLICENSED", or ' +
  '"SEE LICENSE IN <filename>"',
 ]
};

assert.deepEqual(
 valid('LicenseRef-Made-Up'),
 warningAboutLicenseRef
);

assert.deepEqual(
 valid('(MIT OR LicenseRef-Made-Up)'),
 warningAboutLicenseRef
);
```

If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```javascript
assert.deepEqual(
 valid('SEE
 LICENSE IN LICENSE.txt'),
 {
   validForNewPackages: true,
   validForOldPackages: true,
   inFile: 'LICENSE.txt'
 }
);

assert.deepEqual(
 valid('SEE LICENSE IN license.md'),
 {
   validForNewPackages: true,
   validForOldPackages: true,
   inFile: 'license.md'
 }
);
```

If there aren't any licensing terms, use `UNLICENSED`:

```javascript
var unlicensed = {
 validForNewPackages: true,
 validForOldPackages: true,
 unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);
```

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[
 "AGPL-1.0",
 "AGPL-3.0",
 "GFDL-1.1",
 "GFDL-1.2",
 "GFDL-1.3",
 "GPL-1.0",
 "GPL-2.0",
 "GPL-2.0-with-GCC-exception",
 "GPL-2.0-with-autoconf-exception",
 "GPL-2.0-with-bison-exception",

"GPL-2.0-with-classpath-exception",
"GPL-2.0-with-font-exception",
"GPL-3.0",
"GPL-3.0-with-GCC-exception",
"GPL-3.0-with-autoconf-exception",
"LGPL-2.0",
"LGPL-2.1",
"LGPL-3.0",
"Nunit",
"StandardML-NJ",
"eCos-2.0",
"wxWindows"
]
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```
{
 "name": "",
 "version": "",
 "description": "",
 "licenses": "",
 "copyright": "",
 "licenseFile": "none",
 "licenseText": "none",
 "licenseModified": "no"
}
```


Change Log

v25.0.1 (2019/01/10 19:29 +00:00)
- [f1c835b](https://github.com/davglass/license-checker/commit/f1c835b991b65dc928eafe64c29b73df9e703169) Updated readme with new args (@davglass)
- [ada667f](https://github.com/davglass/license-checker/commit/ada667f28e8ef4e96b5b6059fe05541d05ca936c) changelog (@davglass)
- [7813f0d](https://github.com/davglass/license-checker/commit/7813f0db3b51f7cc4cd37d8e7b4670f9005fed06) contrib (@davglass)

v25.0.0 (2019/01/10 15:09 +00:00)
- [cdb77d9](https://github.com/davglass/license-checker/commit/cdb77d9a2b36cd87503f32265a0ee388b25c24ae) 25.0.0 (@davglass)
- [b897345](https://github.com/davglass/license-checker/commit/b89734549bc05fb5e143083fdf6d3959d87eb2b8) [Fixes #136] Document --start option and add the depth option for looking into root dependencies or infinitely (@davglass)
- [#185](https://github.com/davglass/license-checker/pull/185) Merge pull request #185 from theboolean/fix/exclude-packages-and-private (@theboolean)
- [#184](https://github.com/davglass/license-checker/pull/184)
 Merge pull request #184 from theboolean/docs/fix-typo (@theboolean)
- [987a60f](https://github.com/davglass/license-checker/commit/987a60fbb58052cf36d5a80e6252e81136bb1dd8) changes 24.1.0 (@davglass)

v24.1.0 (2018/12/14 20:54 +00:00)
- [18ab8a1](https://github.com/davglass/license-checker/commit/18ab8a1eb478d1354429ca4318c1df3de3e4cbb1) 24.1.0 (@davglass)

- [1dca0f6](https://github.com/davglass/license-checker/commit/1dca0f616aebdef2d398c130a2a4f86c2b4e88c8) Changelog (@davglass)
- [#188](https://github.com/davglass/license-checker/pull/188) Fix for #153: remove deprecated package 'spdx' (#188) (@rogierschouten)
- [d1d34b1](https://github.com/davglass/license-checker/commit/d1d34b1a8894987807419c093c3ec10b4f06db3d) Fix typo in package.json description (@theboolean)
- [f5c9008](https://github.com/davglass/license-checker/commit/f5c9008a6d20b503e21c0d8130e52be526a5bfe8) Fix: Allow excluding packages and private packages together
 (@theboolean)
- [98c4dc6](https://github.com/davglass/license-checker/commit/98c4dc670fdebb6e58b62b38ebcb12302e5b1db5) changes (@davglass)

v24.0.1 (2018/10/11 16:40 +00:00)
- [d72eae8](https://github.com/davglass/license-checker/commit/d72eae8bcb80d8582e6d12c5e2664e9c19135709) 24.0.1 (@davglass)
- [9433e64](https://github.com/davglass/license-checker/commit/9433e640ea9f629aad5f00c224a9f61026b8116d) [Fixes #181] - Removed extra line break with --cvs (@davglass)
- [65baa28](https://github.com/davglass/license-checker/commit/65baa28f532f87ebb75a32578c7ac5837806d12f) contrib and changes (@davglass)

v24.0.0 (2018/10/09 21:12 +00:00)
- [84d64a2](https://github.com/davglass/license-checker/commit/84d64a28fa971c3bfb20b9e9de27cafbe6e8481b) 24.0.0 (@davglass)
- [#180](https://github.com/davglass/license-checker/pull/180) Feature: Exclude Private Packages (#180) (Jonny Reeves)
- [#179](https://github.com/davglass/license-checker/pull/179) Merge pull request #179 from jonny-improbable/fix/fix-strict-checks
 (@jonny-improbable)
- [179077d](https://github.com/davglass/license-checker/commit/179077d079acbcd0183aa6691cfe5c2ec0f93f07) Fixes 176, Packages are not ignored when using --onlyAllow and --excludePackages. (@jonny-improbable)
- [890ca17](https://github.com/davglass/license-checker/commit/890ca17d179bc43a6cb7cff962d69d1521dc9ac2) changelog (@davglass)

v23.0.0 (2018/10/09 14:37 +00:00)
- [f243287](https://github.com/davglass/license-checker/commit/f243287fbce6da33838a226ddfe8c412535390d4) 23.0.0 (@davglass)
- [#178](https://github.com/davglass/license-checker/pull/178) Merge pull request #178 from jonny-improbable/fix/filtering (@jonny-improbable)
- [#175](https://github.com/davglass/license-checker/pull/175) Merge pull request #175 from jonny-improbable/patch-1 (@jonny-improbable)
- [f2c6611](https://github.com/davglass/license-checker/commit/f2c6611d6c68e50b2b6f56260026837e7167f44a) Fixes #177, --packages and --excludePackages filtering (@jonny-improbable)
- [0a598df](https://github.com/davglass/license-checker/commit/0a598df55c3ec33803ef33be07cc47a910eee961) Improve --onlyAllow violation Error
- [ee723af](https://github.com/davglass/license-checker/commit/ee723af79889a4d98ed067494a58f6aa41a44ac7) changes (@davglass)

v22.0.0 (2018/10/08 19:00 +00:00)

- [bd398c3](https://github.com/davglass/license-checker/commit/bd398c3bce0279699c9aad1dc4b592f398a75766) 22.0.0 (@davglass)
- [#172](https://github.com/davglass/license-checker/pull/172) Merge pull request #172 from fzaninotto/exclude-packages (@fzaninotto)
- [014fd96](https://github.com/davglass/license-checker/commit/014fd9613fe5460e0b7a0fc118a659a337e25e2c) added changes (@davglass)

v21.0.0 (2018/10/06 13:24 +00:00)
- [d75fe43](https://github.com/davglass/license-checker/commit/d75fe43d61a9d5b6696d71a663e25a53fd3d44f7) 21.0.0 (@davglass)
- [05cb221](https://github.com/davglass/license-checker/commit/05cb221359de4ffe1039f586cd9e8fb7cb9d6398) [Fixes #174] - Moved private and unknown
 detection above filtering (@davglass)
- [b1d5700](https://github.com/davglass/license-checker/commit/b1d570088236dfb90253bdac27763523b2e74ffb) Add an excludePackages option (@fzaninotto)
- [231bd3f](https://github.com/davglass/license-checker/commit/231bd3f2412507be1d702ad100b23c1b1fe93602) updated readme (@davglass)
- [6c61a7b](https://github.com/davglass/license-checker/commit/6c61a7bd102466c702065d42706392c11717cc1d) changelog (@davglass)

v20.2.0 (2018/07/30 13:49 +00:00)
- [28dc521](https://github.com/davglass/license-checker/commit/28dc5218dec3340778bd801593275ad1b222e53f) 20.2.0 (@davglass)
- [#169](https://github.com/davglass/license-checker/pull/169) Merge pull request #169 from codepunkt/restrict_packages (@codepunkt)
- [5e4b274](https://github.com/davglass/license-checker/commit/5e4b274e955485fb2aba37e65fec913b8042f38d) refactor: restore previous code style (@codepunkt)
- [ed25d68](https://github.com/davglass/license-checker/commit/ed25d6829602793e13233d3da2d97b92ee2044c6)
 test: add test for --packages flag (@codepunkt)
- [0f53922](https://github.com/davglass/license-checker/commit/0f53922088be0b0dfd4f8db7ea884b53d0137e45) feat: allow restricting output to specified packages (@codepunkt)
- [5f63f87](https://github.com/davglass/license-checker/commit/5f63f8766a17e589b57db99bda4eb54d91b85b77) changes and contrib (@davglass)

v20.1.0 (2018/06/07 14:33 +00:00)
- [970882a](https://github.com/davglass/license-checker/commit/970882a09b345c7f32496431e5ca4c069ad7e320) 20.1.0 (@davglass)
- [#165](https://github.com/davglass/license-checker/pull/165) Merge pull request #165 from santiagocanti/fix-exclude-not-adding-custom-licenses (@santiagocanti)
- [89e48a9](https://github.com/davglass/license-checker/commit/89e48a9d3d0c9f2e48bfcee0dc3563ce4b652e22) Fix exclude not including custom licenses (@santiagocanti)

v20.0.0 (2018/05/17 14:14 +00:00)
- [0e89310](https://github.com/davglass/license-checker/commit/0e8931021df777cb401d9a332fa2a8c9a2c49eb2) 20.0.0 (@davglass)
-
 [c36a5c9](https://github.com/davglass/license-checker/commit/c36a5c99bb4f68816e4e19cad5090ba3c7ba67a4) changes (@davglass)

- [ccb66f3](https://github.com/davglass/license-checker/commit/ccb66f3410a4589e6f2b7cf1c3aefb1446bab460) contributors (@davglass)
- [#156](https://github.com/davglass/license-checker/pull/156) Merge pull request #156 from zodiac403/z4/copyright (@zodiac403)
- [56414b4](https://github.com/davglass/license-checker/commit/56414b4a67cbb25bcc8eb8cc05b0ac712b677dc2) Add unit test for Copyright statement. (@zodiac403)
- [3eafe24](https://github.com/davglass/license-checker/commit/3eafe249ad662af727a9b7472f7ad6c1b9a73ade) fixing test coverage with switch to nyc from istanbul (@davglass)

v19.0.0 (2018/04/30 14:51 +00:00)
- [7e83a06](https://github.com/davglass/license-checker/commit/7e83a069d23c104c3cd8257eb64666704ecca465) 19.0.0 (@davglass)
- [e5eb49b](https://github.com/davglass/license-checker/commit/e5eb49bcb5546dbc681f736f159d63908cd39ce9) upgrading
 packages (@davglass)
- [442aee6](https://github.com/davglass/license-checker/commit/442aee69b5d44e47bfd2e441c4e1f86d387e49c6) Changlog (@davglass)

v18.1.0 (2018/04/30 14:16 +00:00)
- [82ec91b](https://github.com/davglass/license-checker/commit/82ec91bb02e6bf998164b62b4aa827198156ad4c) 18.1.0 (@davglass)
- [4b546d3](https://github.com/davglass/license-checker/commit/4b546d38ce91bcbe8d21e7bc53e44635b0447fc2) contrib (@davglass)
- [#155](https://github.com/davglass/license-checker/pull/155) Merge pull request #155 from ktmouk/supress-path-property (@ktmouk)
- [#160](https://github.com/davglass/license-checker/pull/160) Merge pull request #160 from helio-frota/pr (@helio-frota)
- [8b068f2](https://github.com/davglass/license-checker/commit/8b068f25fe910d087c06e29312bc250b49aba4c7) fix: Updating debug dependency to fix a security warning (@helio-frota)
- [040dd94](https://github.com/davglass/license-checker/commit/040dd9468261966c5c40e4a418aa9ba8f716c3a2) Copyright statement: Handle multi-line
 stagements (@zodiac403)
- [0480750](https://github.com/davglass/license-checker/commit/04807506d61aa1d704e8b51da3a289baa025b510) Fix layout issue. (@zodiac403)
- [9cb45f2](https://github.com/davglass/license-checker/commit/9cb45f2b9ce2c1142c0d1f556f01f7d754737a4c) Link with customFormat (@zodiac403)
- [f83aaae](https://github.com/davglass/license-checker/commit/f83aaae85ad4cc2e9880802951dfacbc86dc2d7f) Merge branch 'z4/copyright' of https://github.com/zodiac403/license-checker into z4/copyright (@zodiac403)
- [7536af9](https://github.com/davglass/license-checker/commit/7536af935d91078657f0e169ed82383f099607f6) Trim output. (@zodiac403)
- [8716845](https://github.com/davglass/license-checker/commit/87168456cae35263882bd2b6d6d0081f228b6b66) Suppress path property (@ktmouk)
- [be57ee8](https://github.com/davglass/license-checker/commit/be57ee8f76c8aada0d227913b7d0e12aca0dc640) Add example for (c) statement. (@zodiac403)
- [fe17f7c](https://github.com/davglass/license-checker/commit/fe17f7c76dbdae0cbf689a0cd260a746698f3281)
 Parse (c) statements from LICENSE file. (@zodiac403)
- [#149](https://github.com/davglass/license-checker/pull/149) Merge pull request #149 from honzajavorek/patch-1 (@honzajavorek)

- [955bbf6](https://github.com/davglass/license-checker/commit/955bbf6070ffcd9f0d01ef37bb84ffbac65e007b) remove the old status badge (@honzajavorek)

v18.0.0 (2018/03/20 12:30 +00:00)
- [315de0b](https://github.com/davglass/license-checker/commit/315de0b1a881cf8737c3c0131c217c4820df13a8) 18.0.0 (@davglass)
- [76655d5](https://github.com/davglass/license-checker/commit/76655d59bad95c2e52724aaa3a0cf036f0e60bd6) changelog (@davglass)
- [c8aa823](https://github.com/davglass/license-checker/commit/c8aa823342b7a250d510582c8a03dd76af50bd9c) added contributors (@davglass)
- [#147](https://github.com/davglass/license-checker/pull/147) Merge pull request #147 from honzajavorek/honzajavorek/license-files (@honzajavorek)
- [#148](https://github.com/davglass/license-checker/pull/148)
 Merge pull request #148 from honzajavorek/honzajavorek/use-stderr (@honzajavorek)
- [#146](https://github.com/davglass/license-checker/pull/146) Merge pull request #146 from honzajavorek/honzajavorek/fix-e2e-test (@honzajavorek)
- [#145](https://github.com/davglass/license-checker/pull/145) Merge pull request #145 from honzajavorek/honzajavorek/drop-4-add-8 (@honzajavorek)
- [0105f7d](https://github.com/davglass/license-checker/commit/0105f7dcf01a67b8f7c34371d95a1d76b191d5ed) use stderr where applicable (@honzajavorek)
- [0ff8d91](https://github.com/davglass/license-checker/commit/0ff8d917c659446256074c0940ae43dd84930233) add support for LICENSE-MIT and similar (@honzajavorek)
- [f02589e](https://github.com/davglass/license-checker/commit/f02589e62c0ba8221081b8b1799d561c3ff20500) isolate and test the license file detection (@honzajavorek)
- [f0da0fe](https://github.com/davglass/license-checker/commit/f0da0fe2ab28f1658e4ed504bb034fb1536b9ff8) add warning about commas and test
 it (@honzajavorek)
- [3db0b6f](https://github.com/davglass/license-checker/commit/3db0b6f05a68ccfff4181503ca87edce4ef10cd7) fix e2e test (transition from comma delimiter to semicolon) (@honzajavorek)
- [cec3b73](https://github.com/davglass/license-checker/commit/cec3b73505ac40a2dca211e78427624d009585dc) let Travis CI to cache node_modules (@honzajavorek)
- [8cea3dc](https://github.com/davglass/license-checker/commit/8cea3dccf1d185dc3ae3f37f44a82d7e123a1988) add Travis CI badge to the README (@honzajavorek)
- [8f59c3b](https://github.com/davglass/license-checker/commit/8f59c3b494f69b1d51535bcff80c0e006d0ef6bb) drop support for node 4, add support for node 8 (@honzajavorek)

v17.0.0 (2018/03/19 13:26 +00:00)
- [cd5fdd8](https://github.com/davglass/license-checker/commit/cd5fdd8e94267d7d8f29e86dd9cbf8b694c037f1) 17.0.0 (@davglass)
- [13c11ee](https://github.com/davglass/license-checker/commit/13c11eeea1b1a3e012de62536100fce91c355c8b) updated readme and help text (@davglass)
- [#144](https://github.com/davglass/license-checker/pull/144)
 Merge pull request #144 from creising/parser-fixes (@creising)
- [d2ab8df](https://github.com/davglass/license-checker/commit/d2ab8df30bc3e6b38b321a1e12a70cf477a69eb0) added support for lic with commas and spaces (@creising)
- [2075208](https://github.com/davglass/license-checker/commit/20752083c6029823fb389a30a1ed4d7d90fa9297) contrib and changelog (@davglass)
- [6c5274c](https://github.com/davglass/license-checker/commit/6c5274c6064d318844cf36185dea395e0893ff08)

[fixes #132] - Fixed issue with asFiles and path issues (@davglass)
- [a46c448](https://github.com/davglass/license-checker/commit/a46c4483f872c3db9498a65b7ae3dc6d8164de0a) 16.0.0 (@davglass)
- [38d63e2](https://github.com/davglass/license-checker/commit/38d63e2c2c3fd6c11012fb69b1470b2ba06d5554) [fixes #128] - Added --onlyAllow option (@davglass)

v16.0.0 (2018/01/18 15:02 +00:00)
- [#131](https://github.com/davglass/license-checker/pull/131) Merge pull request #131
 from mischah/patch-1 (@mischah)
- [e341d17](https://github.com/davglass/license-checker/commit/e341d1701092be87309ec4b51fa6eb23f7e9a589) Fix typo in Readme (@mischah)
- [cc38a20](https://github.com/davglass/license-checker/commit/cc38a2047bf41b6fe25266114a13a9bf54133e04) updated license text (@davglass)

v15.0.0 (2017/10/19 14:24 +00:00)
- [a9bd001](https://github.com/davglass/license-checker/commit/a9bd001b649bfa186bae5598bb8c67ff56383599) 15.0.0 (@davglass)
- [db621fa](https://github.com/davglass/license-checker/commit/db621fa6beeff870699c33be484bf49816ab7866) changelog (@davglass)
- [#124](https://github.com/davglass/license-checker/pull/124) Merge pull request #124 from neverendingqs/app/stricterguesses (@neverendingqs)
- [#126](https://github.com/davglass/license-checker/pull/126) app - output now includes path to dependency. (#126) (@neverendingqs)
- [9f68b29](https://github.com/davglass/license-checker/commit/9f68b29bbfa73278cdab92e221be6ccbab191932) app - strengthening license
 guessing; resolves #123. (@neverendingqs)
- [3061c87](https://github.com/davglass/license-checker/commit/3061c87363f3416d86ca6c2ba7b2bfa77def0e73) changes (@davglass)

v14.0.0 (2017/08/28 13:22 +00:00)
- [b2a4403](https://github.com/davglass/license-checker/commit/b2a440309c1537c52e5c5a2106f11e72d5b784ec) 14.0.0 (@davglass)
- [#122](https://github.com/davglass/license-checker/pull/122) Added --failOn [list] mode (#122) (@tobilg)

v13.1.0 (2017/08/25 15:00 +00:00)
- [ee25265](https://github.com/davglass/license-checker/commit/ee25265f92fe0d3b603da6b8c88d175e0d1f2fa5) 13.1.0 (@davglass)
- [5bb9a17](https://github.com/davglass/license-checker/commit/5bb9a17f89d7e180b3a9d929ebc073135262bd2f) changes (@davglass)
- [b1e0392](https://github.com/davglass/license-checker/commit/b1e0392afa4b511b7c532125cd3165a828d3d4e3) added contrib (@davglass)
- [#121](https://github.com/davglass/license-checker/pull/121) Add `--summary` mode to show a summary with counts of the used licenses (#121)
 (@tobilg)
- [#119](https://github.com/davglass/license-checker/pull/119) Fix minor spelling mistakes (#119) (@tobiasbueschel)
- [#118](https://github.com/davglass/license-checker/pull/118) Minor readme text improvements (#118) (@peteruithoven)

- [d2bc5ea](https://github.com/davglass/license-checker/commit/d2bc5ea91ab50becea91d5f0f050955fe9a6ac59) added license parsing info to README (@davglass)
- [3e9d320](https://github.com/davglass/license-checker/commit/3e9d320acb2e9f14297d6a4355680f34a9b0609d) changes (@davglass)

v13.0.3 (2017/08/04 17:15 +00:00)
- [2caf76b](https://github.com/davglass/license-checker/commit/2caf76be7f2849e153ee28410f3b7a41df3283b5) 13.0.3 (@davglass)
- [fadddc8](https://github.com/davglass/license-checker/commit/fadddc895ef9c6f182e2283c5605a8c1d8fa8a25) [fixes #117] fixed minor URL parsing (@davglass)
- [e58a868](https://github.com/davglass/license-checker/commit/e58a868268aefd97d735b364bd87d03140d76482) changes (@davglass)

v13.0.2 (2017/07/18 16:24 +00:00)
- [2c712b7](https://github.com/davglass/license-checker/commit/2c712b7c7e6efe916d60f3ef3125f7f019c46d59) 13.0.2 (@davglass)
- [ef812c1](https://github.com/davglass/license-checker/commit/ef812c1168901d08b97dbd450a64ca03bb7062ad) [fixes #114] - Custom URL/File parsing skipped if file found on disk (@davglass)

v13.0.1 (2017/07/17 12:48 +00:00)
- [a1bf8f1](https://github.com/davglass/license-checker/commit/a1bf8f152b100d81b44757b3b7e141df6a971c44) 13.0.1 (@davglass)
- [e6d0c89](https://github.com/davglass/license-checker/commit/e6d0c893b8a86e12493f7a5c22fd74ef26267994) contrib & changes (@davglass)
- [#113](https://github.com/davglass/license-checker/pull/113) Use LICENSE file in preference to README (#113) (@ibeucaly)
- [6b7f79f](https://github.com/davglass/license-checker/commit/6b7f79f654e21903ea37e4391fba3601ece32e90) changes (@davglass)

v13.0.0 (2017/07/14 12:49 +00:00)
- [dd9e880](https://github.com/davglass/license-checker/commit/dd9e880abd234d683d8c1e57e7a5f889c9156de4) 13.0.0 (@davglass)
- [051b20b](https://github.com/davglass/license-checker/commit/051b20b0c4b35f223f724705a0025dafc809373f) cleaned up some tests (@davglass)
- [#110](https://github.com/davglass/license-checker/pull/110) FEATURE: Recognise some custom licenses by file or url (#110) (@dancrumb)
- [#111](https://github.com/davglass/license-checker/pull/111) Resolves #60 (#111) Adding support for GPL and LGPL (@dancrumb)
- [#109](https://github.com/davglass/license-checker/pull/109) FEATURE: Improve license exclusion (#109) (@dancrumb)
- [#108](https://github.com/davglass/license-checker/pull/108) FEATURE: Detect private modules and report them as UNLICENSED (#108) (@dancrumb)

v12.1.0 (2017/07/12 16:48 +00:00)
- [dc944e5](https://github.com/davglass/license-checker/commit/dc944e54d55d77b0ef6b6321d9abee847662ccb8) 12.1.0 (@davglass)
- [d415c58](https://github.com/davglass/license-checker/commit/d415c580b04bc5eefa592dc9f9a0a31b244c1bd3)

updated contrib and changes (@davglass)
- [#107](https://github.com/davglass/license-checker/pull/107)
 Merge pull request #107 from dancrumb/feature/support-for-public-domain-licenses (@dancrumb)
- [0c55770](https://github.com/davglass/license-checker/commit/0c55770294167161c48b79cc82a15a6545154a87)
FEATURE: Add support for Public Domain licenses (@dancrumb)

v12.0.0 (2017/07/05 13:33 +00:00)
- [8b74fa1](https://github.com/davglass/license-checker/commit/8b74fa1fe3b5edb0d217aa3ce86f4662eb024621)
12.0.0 (@davglass)
- [4f3367c](https://github.com/davglass/license-checker/commit/4f3367c2bf2e9713a6cccd11341f7f4fa70ed400)
changes & contrib (@davglass)
- [#106](https://github.com/davglass/license-checker/pull/106) Merge pull request #106 from helio-frota/licensefile-readme (@helio-frota)
- [a229507](https://github.com/davglass/license-checker/commit/a2295073d0178dca1b88e85ea8f52c21d35e52fc)
src: the README is added as licenseFile (@helio-frota)
- [b59d90d](https://github.com/davglass/license-checker/commit/b59d90d8705f6f728c817b89936f95097d26857b)
 changes & contrib (@davglass)

v11.0.0 (2017/05/30 13:33 +00:00)
- [258df10](https://github.com/davglass/license-checker/commit/258df102da484943088da8e0b6160b80c0e703cd)
11.0.0 (@davglass)
- [#102](https://github.com/davglass/license-checker/pull/102) Merge pull request #102 from xswordsx/multiple-licenses (@xswordsx)
- [c5c8b0f](https://github.com/davglass/license-checker/commit/c5c8b0f408f2a26259a7b1109f7cc135ed5bf9c4)
Check for SPDX-compatible licenses (@xswordsx)

v10.1.0 (2017/05/25 16:16 +00:00)
- [b52a16d](https://github.com/davglass/license-checker/commit/b52a16d0ba414e7287f82325dd65619cd76afdd1)
10.1.0 (@davglass)
- [f911a99](https://github.com/davglass/license-checker/commit/f911a9919033254945ecbbf69362cb171436688e)
contrib & changes (@davglass)
- [#100](https://github.com/davglass/license-checker/pull/100) Suppress JSON properties with custom format (#100) (@tbbstny)
- [ed5b3ab](https://github.com/davglass/license-checker/commit/ed5b3ab50825f0be032958f8233dd3000ee98e85)
 changelog (@davglass)

v10.0.0 (2017/05/17 13:51 +00:00)
- [b2c2283](https://github.com/davglass/license-checker/commit/b2c2283cf5a937e64a07ab200ec2379e481903b6)
10.0.0 (@davglass)
- [a0406ac](https://github.com/davglass/license-checker/commit/a0406ac2c7a0b1037ca31b47e36d316b9c088938)
[fixes #96] - do not replace newline, etc in licenses for exporting to json/markdown (@davglass)
- [98a03fa](https://github.com/davglass/license-checker/commit/98a03fa700ef6d038cc2f9104ea5cf17c82a10ad)
[fixes #97] - Added a newline to the output file (@davglass)
- [#98](https://github.com/davglass/license-checker/pull/98) Merge pull request #98 from davglass/eslint (@davglass)
- [10fe441](https://github.com/davglass/license-checker/commit/10fe441a2e70e549e57f7da99d2287fc55355500)
moved to eslint (@davglass)
- [f82b535](https://github.com/davglass/license-checker/commit/f82b535d3b7f152fa00bb4680e94af18d1c1421d)

changelog (@davglass)

v9.0.3 (2017/04/10 13:42 +00:00)
- [a0fd60f](https://github.com/davglass/license-checker/commit/a0fd60f972b7c84a32117b3dfc1f95bfa2282f27) 9.0.3 (@davglass)
- [#95](https://github.com/davglass/license-checker/pull/95) Merge pull request #95 from abtris/prefix-component (@abtris)
- [3b80272](https://github.com/davglass/license-checker/commit/3b80272a217687c2f0cd7a0c1e98775064d820ff) test: add test for csvComponentPrefix (@abtris)
- [d593554](https://github.com/davglass/license-checker/commit/d593554c1a6b4f7e004e4a23fca88cb7294f8351) feat: add support for csvComponentPrefix (@abtris)
- [5b2eea1](https://github.com/davglass/license-checker/commit/5b2eea12d8c54068a01a2cf1fd9bdeca8c1f0fa2) added contrib (@davglass)

v9.0.2 (2017/04/05 14:55 +00:00)
- [f24833b](https://github.com/davglass/license-checker/commit/f24833bce846f608ec3d8c327d335da56c42b895) 9.0.2 (@davglass)
- [#94](https://github.com/davglass/license-checker/pull/94) Merge pull request #94 from timbru31/fix-comma-exclude (@timbru31)
- [2d08a77](https://github.com/davglass/license-checker/commit/2d08a77030362c7ab03ac12358dd524c0be47eee) contrib & changelog (@davglass)

v9.0.1 (2017/04/05 13:09 +00:00)
- [9f1a1f3](https://github.com/davglass/license-checker/commit/9f1a1f32194a9bb312858f624e303af1ad4f61ca) 9.0.1 (@davglass)
- [c99f612](https://github.com/davglass/license-checker/commit/c99f612fee22d9eb03db0ad41e7918fbaf6e8ed9) added test for licenseText (@davglass)
- [#93](https://github.com/davglass/license-checker/pull/93) Merge pull request #93 from abtris/licenseText-just-in-customFormat (@abtris)
- [8d7fb2f](https://github.com/davglass/license-checker/commit/8d7fb2f85fc585d8e75ab1459e0b0cef43993ba4) fix: allow escaped commas in exclude string (@timbru31)
- [da4d73c](https://github.com/davglass/license-checker/commit/da4d73c0feb22f50ddbce54364eef5b7bcc7f1a4) test: fix test, remove check from non custom format (@abtris)
- [dcd3b59](https://github.com/davglass/license-checker/commit/dcd3b59bb9457df354fa3095189235b6e030df1a) feat: add licenseText
 only for customFormat
- [4e02eca](https://github.com/davglass/license-checker/commit/4e02eca6e8bd332ff6d90e5039cacb50f0df1bf3) updated contribs and changelog (@davglass)

v9.0.0 (2017/04/04 12:26 +00:00)
- [267c80e](https://github.com/davglass/license-checker/commit/267c80efac89eef70c71a12b8f12b3dc8e6d58dd) 9.0.0 (@davglass)
- [057af47](https://github.com/davglass/license-checker/commit/057af47bc52ac526f646ba21496f338689801809) added licenseFile assertion to tests (@davglass)
- [#92](https://github.com/davglass/license-checker/pull/92) Merge pull request #92 from abtris/includeFileContent (@abtris)
- [1cda118](https://github.com/davglass/license-checker/commit/1cda118e1aa18cc391ba2765dccae89172943a0f) fix: replace problematics chars for easy import to Excel (@abtris)

- [dd6ecab](https://github.com/davglass/license-checker/commit/dd6ecab1a7b1354c4d1d001491f58dbe0f5e3e63) feat: add licenseText (@abtris)
- [6395498](https://github.com/davglass/license-checker/commit/639549890c54a12043244579ad0c0d5972309fb2) changes and contrib (@davglass)

v8.0.4 (2017/02/15 16:21 +00:00)
- [28d379a](https://github.com/davglass/license-checker/commit/28d379aca51da7a47af324bc6feb63736ea02295) 8.0.4 (@davglass)
- [#89](https://github.com/davglass/license-checker/pull/89) Merge pull request #89 from Pawamoy/master (@Pawamoy)
- [#90](https://github.com/davglass/license-checker/pull/90) Merge pull request #90 from drewfish/bsd-source-code (@drewfish)
- [b704bc1](https://github.com/davglass/license-checker/commit/b704bc18a43de246302b8ff6933f8fe5f96ee3a6) guess BSD-Source-Code license (@drewfish)
- [8d31eab](https://github.com/davglass/license-checker/commit/8d31eabfb671d32e6f3e63215d6530d7fb4acc59) Add docs about customFormat option (@pawamoy)
- [2529d31](https://github.com/davglass/license-checker/commit/2529d3118dfae53f1e01056ec99f5c542cb8d63e) changes (@davglass)

v8.0.3 (2016/11/10 17:04 +00:00)
- [66fd7b5](https://github.com/davglass/license-checker/commit/66fd7b5ad5577cc2c85668a7c6607365c86a2c85) 8.0.3 (@davglass)
- [#87](https://github.com/davglass/license-checker/pull/87) Merge pull request #87 from drewfish/guess-cc0 (@drewfish)
- [668bbd3](https://github.com/davglass/license-checker/commit/668bbd38fd5148f99c5263f4e0506e04d5e3f8a0) guess CC0-1.0, upgraded jshint (@drewfish)

v8.0.2 (2016/11/09 21:57 +00:00)
- [0bdedd8](https://github.com/davglass/license-checker/commit/0bdedd8cb990e1f5ffacde1c12cc708185a5b866) 8.0.2 (@davglass)
- [ef67bb4](https://github.com/davglass/license-checker/commit/ef67bb454373352343faa49d4dc978a295bd1544) updated semver (@davglass)
- [14b5c85](https://github.com/davglass/license-checker/commit/14b5c8551ccbb5c5ce8aa76fb5367857c891d013) Changelog (@davglass)

v8.0.1 (2016/11/09 21:51 +00:00)
- [594871d](https://github.com/davglass/license-checker/commit/594871d6197a030121f940500495e6ca7d82f02c) 8.0.1 (@davglass)
- [c243663](https://github.com/davglass/license-checker/commit/c243663b0ab8a0126251292a57b2c47369a51ebf) added
 contrib (@davglass)
- [#86](https://github.com/davglass/license-checker/pull/86) Merge pull request #86 from drewfish/copying (@drewfish)
- [380aa26](https://github.com/davglass/license-checker/commit/380aa26799cb527739907484e69c6dae26d5f17a) also support COPYING file (@drewfish)
- [329c367](https://github.com/davglass/license-checker/commit/329c3676d0cd5c5947a53fd205ff23b767b7f882) handling undefined@undefined error better (@davglass)
- [1f93a07](https://github.com/davglass/license-checker/commit/1f93a072632aad0660b63f61c56c3bd2fe109474)

changelog (@davglass)

v8.0.0 (2016/09/09 13:23 +00:00)
- [44c2c48](https://github.com/davglass/license-checker/commit/44c2c48ae177915523fdf89a74474fe0953408bf) 8.0.0 (@davglass)
- [b5f5c6a](https://github.com/davglass/license-checker/commit/b5f5c6ae03a8c60c52fdd308f1721744a4baaa99) [fixes #78] - include notice file if found (@davglass)
- [dfcbd6f](https://github.com/davglass/license-checker/commit/dfcbd6f4966adc74e065f71e45cbd08ba8fe62ab) changelog
 (@davglass)
- [99976d0](https://github.com/davglass/license-checker/commit/99976d07980e241384be10341d0305d08de9cea5) 7.1.1 (@davglass)
- [ef857b7](https://github.com/davglass/license-checker/commit/ef857b7e9bab706299a1cc565ec5d144893af424) [fixes #77] fixed readme file name parsing, made it more strict (@davglass)

v7.1.1 (2016/09/07 19:16 +00:00)
- [28be6d4](https://github.com/davglass/license-checker/commit/28be6d4128a3625cf8ed37ba149e79ed3a41b4fa) changelog (@davglass)

v7.1.0 (2016/09/07 15:12 +00:00)
- [9f8b7f1](https://github.com/davglass/license-checker/commit/9f8b7f1c367dfe86342ee5f5cc97171bf97281aa) 7.1.0 (@davglass)
- [60fce1a](https://github.com/davglass/license-checker/commit/60fce1a24a4ef5add98a08dd8c8a85870db3f4a6) Fixed order of operations for parsing (@davglass)
- [9d4db11](https://github.com/davglass/license-checker/commit/9d4db112794b8110a1bfe0abfe2d3e63bc812299) Updated changelog (@davglass)

v7.0.0 (2016/09/06 14:50 +00:00)
- [a3a08da](https://github.com/davglass/license-checker/commit/a3a08da70b680d724045f655e107f36b16b45fea) 7.0.0 (@davglass)
- [b993399](https://github.com/davglass/license-checker/commit/b9933994472162cc9c4292cb42f2900e17a5167f) added contrib (@davglass)
- [d783029](https://github.com/davglass/license-checker/commit/d7830297b053496e45b7145b3cfa5809ac8ab1d1) Fixes #76 - If readme data not found, look for it on disk (@davglass)
- [#75](https://github.com/davglass/license-checker/pull/75) Merge pull request #75 from revov/master (@revov)
- [6204a24](https://github.com/davglass/license-checker/commit/6204a244ee71ae0329b4f2c1ca6cf37713741f32) Fix incorrect example in README (@revov)
- [90e24ac](https://github.com/davglass/license-checker/commit/90e24ac9ad20591d5ac166cc2974034fb997b30a) Added changelog (@davglass)
- [dd768c6](https://github.com/davglass/license-checker/commit/dd768c6c8cbc39b596881a2eca582ad4bb816879) Added contributors (@davglass)

v6.0.0 (2016/08/26 19:46 +00:00)
- [4bca140](https://github.com/davglass/license-checker/commit/4bca140db752b7b98ad1e261e5ee965d84995741) 6.0.0 (@davglass)
- [889ff17](https://github.com/davglass/license-checker/commit/889ff171aeb01a2180f4c9100ca9ea528a264d81) updating tests (@davglass)
- [ed18801](https://github.com/davglass/license-checker/commit/ed188010351c4afb44db0d32dfa1025de53bf10f)

Merge branch 'nodeback' of git://github.com/bengl/license-checker into bengl-nodeback (@davglass)
- [34bb266](https://github.com/davglass/license-checker/commit/34bb26677cd0e25500fa545d4f1e8aef216b8cc7) dropping node 0.10 and adding node 6.0 to travis (@davglass)
- [1d30667](https://github.com/davglass/license-checker/commit/1d306674a7fface2cad31f2bd76d7584c7922bbc) updating tests (@davglass)
- [65d7c73](https://github.com/davglass/license-checker/commit/65d7c73f967111003fcc71ae24a4a5391bd48046) Cleaned up some code (@davglass)
- [f753998](https://github.com/davglass/license-checker/commit/f753998a06cbb5fd9fff6430b3588a3b3cf81339) Merge branch 'master' of git://github.com/amittkSharma/license-checker
 into amittkSharma-master (@davglass)
- [28e4462](https://github.com/davglass/license-checker/commit/28e4462543724685080c1623dc2dbd57cabb1c30) Added tests and cleaned up linting (@davglass)
- [153857a](https://github.com/davglass/license-checker/commit/153857a251a97d14c883f6479579844b2980b5aa) Publisher Information incorporated.
- [1265cb3](https://github.com/davglass/license-checker/commit/1265cb38d186ab1609dbdfa4124f237f8aa15846) Added ability to output individual license files (@aweber1)
- [49e11d0](https://github.com/davglass/license-checker/commit/49e11d049645d565b7ef6d3c778af54eb13af888) fix tests (@bengl)
- [26ffc6f](https://github.com/davglass/license-checker/commit/26ffc6f63d43c372c9a18f9c0c137608b3d5e4fa) use nodeback/errback (@bengl)

v5.1.2 (2016/05/04 18:32 +00:00)
- [7101c77](https://github.com/davglass/license-checker/commit/7101c77667ad134fe01f02c298e7df2a4080e311) 5.1.2 (@davglass)
- [#67](https://github.com/davglass/license-checker/pull/67)
 Merge pull request #67 from graingert/patch-2 (@graingert)
- [a6ee290](https://github.com/davglass/license-checker/commit/a6ee2904eb7fcced220dcfe8548f80ec74fde3a2) Upgrade read-installed (@graingert)
- [42e29c6](https://github.com/davglass/license-checker/commit/42e29c637940959121842762d74921bece5e8d93) migrating tests from vows to mocha (@davglass)

v5.1.1 (2016/04/14 13:20 +00:00)
- [6ae0334](https://github.com/davglass/license-checker/commit/6ae03348ca8e5835ac732028afdab664a381cfc4) 5.1.1 (@davglass)
- [0720a46](https://github.com/davglass/license-checker/commit/0720a46569f3e12eb398165526944f307e08aad6) Fixes #64 - Turn off color for --json/markdown/csv options (@davglass)

v5.1.0 (2016/03/09 15:50 +00:00)
- [86772d2](https://github.com/davglass/license-checker/commit/86772d202b63d4a4c6729b9a774193ca6ef5cb3f) 5.1.0 (@davglass)
- [#61](https://github.com/davglass/license-checker/pull/61) Merge pull request #61 from sgtdck/master (@sgtdck)
- [6547ac1](https://github.com/davglass/license-checker/commit/6547ac1ded58560c7c4abdfc68fa69d17b81fe1e)
 Removed obsolete d[key].name assignment from tests (@sgtdck)
- [00b18a6](https://github.com/davglass/license-checker/commit/00b18a6012387e1a4a8284c07bf2d08740e03ddd) Added a --relativeLicensePath option to display the license file relatively to the current path. (@sgtdck)
- [629da20](https://github.com/davglass/license-checker/commit/629da201e0d1170057fd9efe05efcb293d2f1bda) Added latest contributors (@davglass)

v5.0.1 (2016/02/08 15:57 +00:00)
- [33731fc](https://github.com/davglass/license-checker/commit/33731fca482936a7a18fffe3fca2f3cd41e3a625) 5.0.1 (@davglass)
- [fe06eae](https://github.com/davglass/license-checker/commit/fe06eaef8844d050ad0f80d576a221dd605131de) Fixed repplace (@davglass)
- [997914f](https://github.com/davglass/license-checker/commit/997914fd6f94030452d4d9bf549eb156ae8ef7c0) fix git+https URLs (@graingert)
- [#57](https://github.com/davglass/license-checker/pull/57) Merge pull request #57 from Damien-Larmine/doc-license-asterisk (@Damien-Larmine)
- [2adff2d](https://github.com/davglass/license-checker/commit/2adff2da98a5af79479a162e4998eb5892ab31c3) Explicit the asterisk in license report (@Damien-Larmine)
- [b2fc9cf](https://github.com/davglass/license-checker/commit/b2fc9cf2a8eaa008c7593037d046f245a7ce7f25) 5.0.0 (@davglass)
- [7f71c53](https://github.com/davglass/license-checker/commit/7f71c53833cf1318ffe84215fcb1291f9ce4fbd5) updated contributors (@davglass)

v5.0.0 (2016/01/22 15:31 +00:00)
- [#55](https://github.com/davglass/license-checker/pull/55) Merge pull request #55 from davglass/devflag (@davglass)
- [ff1d8f2](https://github.com/davglass/license-checker/commit/ff1d8f20d5d7248a4f61e2fc9279fdfea91a6ec6) supporting --production and --development flags (@davglass)
- [#53](https://github.com/davglass/license-checker/pull/53) Merge pull request #53 from swashcap/enhancement/#46-verbose-output (@swashcap)
- [#54](https://github.com/davglass/license-checker/pull/54) Merge pull request #54 from davglass/travis-updates (@davglass)
- [2c80d9d](https://github.com/davglass/license-checker/commit/2c80d9d2dcc59340698630144256096a91e23f22) fixing tests in other node versions (@davglass)
- [78820ac](https://github.com/davglass/license-checker/commit/78820ac33ab8aed74809c8a5f8847705c8b2848e) travis config updates (@davglass)
- [f94263b](https://github.com/davglass/license-checker/commit/f94263b203046e2f53d64997b0261498010eb38d) Update documentation for debug use. (@swashcap)
- [429e44d](https://github.com/davglass/license-checker/commit/429e44d697527221ef22bb03af9d67820015446f) Change `console.error` call to use debug module. (@swashcap)
- [7312daf](https://github.com/davglass/license-checker/commit/7312daf7af195a1b9d1b1f290fae15963fbb2ab4) Add debug to project. (@swashcap)

v4.2.0 (2015/10/20 13:44 +00:00)
- [3583d92](https://github.com/davglass/license-checker/commit/3583d925e96fc9f63b3bbf0110b11c8448aed0e7) 4.2.0 (@davglass)
- [981eeda](https://github.com/davglass/license-checker/commit/981eeda898084dea88d54ea29c5bda93c5313fb6) Fixes #49: Default to unknown if licenses null and added ISC support (@davglass)

v4.1.2 (2015/09/29 13:46 +00:00)
- [ba946dd](https://github.com/davglass/license-checker/commit/ba946dd1065e762c36b27dcecdd9bb7389ad18d4) 4.1.2 (@davglass)
- [#48](https://github.com/davglass/license-checker/pull/48) Merge pull request #48 from CantemoInternal/master (@CantemoInternal)
- [e314a6d](https://github.com/davglass/license-checker/commit/e314a6d1f505d19478c33871640a763fabff6abd)

Fix json, csv and markdown output for license-checker (@mattiasa)

v4.1.1 (2015/09/12 14:39 +00:00)
- [c918314](https://github.com/davglass/license-checker/commit/c918314bfc687b647d1d288bb5857dd1caac1393) 4.1.1 (@davglass)
- [#47](https://github.com/davglass/license-checker/pull/47) Merge pull request #47 from tmpvar/ensure-bin-runs (@tmpvar)
- [a842eca](https://github.com/davglass/license-checker/commit/a842ecae4f008c07df3039dcaacd4641d7273625) add missing } (@tmpvar)
- [1d513bb](https://github.com/davglass/license-checker/commit/1d513bb673d726f34286061446f965e46d96170e) ensure bin/license-checker works at a high-level (@tmpvar)

v4.1.0 (2015/09/09 14:52 +00:00)
- [a4bb437](https://github.com/davglass/license-checker/commit/a4bb437ffa806c0832f877da2de7a107863d0a1f) 4.1.0 (@davglass)
- [ddd317a](https://github.com/davglass/license-checker/commit/ddd317a5a09344f0021812b8dee2f39bbbbf07a0) fixed all of the windows line endings (@davglass)
- [11e6487](https://github.com/davglass/license-checker/commit/11e64870484435e1e6f8efb9b0f13e6b2f737a6b) Fix issues caused by merge (@ptusch)
- [313a7ed](https://github.com/davglass/license-checker/commit/313a7edc3dbdf8d50e43ba8da89306d3c89326bc) Merge remote-tracking branch 'remotes/upstream/master' into ft_custom_format (@ptusch)
- [1f5e326](https://github.com/davglass/license-checker/commit/1f5e326dbca91fc8a396b9e02efe3eac9fd82a82) added contributors to package.json
 (@davglass)
- [#45](https://github.com/davglass/license-checker/pull/45) Merge pull request #45 from hufsm/ft_error_handling (@hufsm)
- [c806034](https://github.com/davglass/license-checker/commit/c806034ab6feaecf297d0c23afb536b290ba8c81) Remove unused var statement (@ptusch)
- [778b1fa](https://github.com/davglass/license-checker/commit/778b1fa1a9c1be0c816545165020522d2dbf17ef) More tests to fulfill the required % (@ptusch)
- [22257d9](https://github.com/davglass/license-checker/commit/22257d95490765db816578cc48c2b5b62699f1aa) Add tests for licenses (WTFPL) (@ptusch)
- [0fe7561](https://github.com/davglass/license-checker/commit/0fe75611a73970fe9e9e0aab2d4bdee5250435b2) Remove unused filter option (never used) (@ptusch)
- [83caa10](https://github.com/davglass/license-checker/commit/83caa10493a5a05ffba6c0e80b5c03f9cd4f65d6) Change license shortcut for WTFPL (@ptusch)
- [3e348db](https://github.com/davglass/license-checker/commit/3e348dbe5feeb7bd356ebef3cd34e69329dbc8c1) More
 tests for the custom formatter (@ptusch)
- [96c2d6f](https://github.com/davglass/license-checker/commit/96c2d6f24c509df2bf3f6bd8b83a613fea8d9ecc) Add tests for customFormatter (@ptusch)
- [c9948c4](https://github.com/davglass/license-checker/commit/c9948c4b7b2cccdd053ba63f4fd2a6a6d0a46493) Add test configs (@ptusch)
- [4b2dea0](https://github.com/davglass/license-checker/commit/4b2dea0c124f6aba63abd2129625825c3b5a6570) Fix merge issues - semicolon slipped through (@ptusch)
- [cc7662a](https://github.com/davglass/license-checker/commit/cc7662a46719c97745410e3ac2b782f937dc54ef) Merge branch 'master' into ft_error_handling (@ptusch)
- [04a2294](https://github.com/davglass/license-checker/commit/04a2294b82a8227cccb83d76f73cbd7cf62af533)

Add additional test (@ptusch)
- [52fa91c](https://github.com/davglass/license-checker/commit/52fa91c5cbc345736ebe6e97f400a27a773502d2) Add parseJson test (@ptusch)
- [d846c5e](https://github.com/davglass/license-checker/commit/d846c5e6970737dd3085688e7b601e9ea4546417) Fix tests after merge conflict (@ptusch)
- [7eac458](https://github.com/davglass/license-checker/commit/7eac4583f8003b5bda4ef966768bbb457fe8dc44) Merge branch 'master' into ft_custom_format (@ptusch)
- [4aa7065](https://github.com/davglass/license-checker/commit/4aa7065c5eef88d49c3684369b2edd9802c3f374) Add tests for customFormat (@ptusch)

v4.0.0 (2015/09/04 13:40 +00:00)
- [3fbba5b](https://github.com/davglass/license-checker/commit/3fbba5bd5a489ea8c17328eabf71c4d5e9beb17e) 4.0.0 (@davglass)
- [ce8d661](https://github.com/davglass/license-checker/commit/ce8d66108a49af7855c16231ce675c567a2ffe7f) tests: added 100% coverage for license file (@davglass)
- [#42](https://github.com/davglass/license-checker/pull/42) Merge pull request #42 from ptusch/ft_onlyunknown (@ptusch)
- [8929e90](https://github.com/davglass/license-checker/commit/8929e90413be0362f19e755048e9218c372abf68) Add tests for the error generation (@ptusch)
- [1a93a41](https://github.com/davglass/license-checker/commit/1a93a41569a53a1580c94c2c903a5bc127ad2692) Add error handling (@ptusch)
- [6b79145](https://github.com/davglass/license-checker/commit/6b791457463dca71b22b09eecff16bbf982db682) Add additional check to negate the test (@ptusch)
- [559e72c](https://github.com/davglass/license-checker/commit/559e72ccab2420bc42bf28b498702dad13ef967a) Add test for the first function call. (@ptusch)
- [faf8ffd](https://github.com/davglass/license-checker/commit/faf8ffd69fd8ae475484a9b47b57a7b6ea738856) Remove trivial UNKNOWN check (@ptusch)
- [6fa44ef](https://github.com/davglass/license-checker/commit/6fa44ef8c045ab2b0a1291b45990edf52adfc0e2) Merge branch 'master' into ft_custom_format (@ptusch)
- [efe23d9](https://github.com/davglass/license-checker/commit/efe23d991cfcb40dc6980fbf13461408da822b1f) Merge branch 'master' into ft_onlyunknown (@ptusch)
- [c287959](https://github.com/davglass/license-checker/commit/c2879592858805d7ecd0304a39c5cf079efe6a7c) Add option to only show unknown licenses (@ptusch)
- [#43](https://github.com/davglass/license-checker/pull/43) Merge pull request #43 from senotrusov/master (@senotrusov)
- [d7a663f](https://github.com/davglass/license-checker/commit/d7a663f9deeb4d7a648a6d2cb9db84d5667ee540) Add test for exclude option. (@senotrusov)
- [45a27de](https://github.com/davglass/license-checker/commit/45a27de02a3c1d57a86e3f8e14b6e335788c23ba) Add option to exclude from the output modules which licenses are in the comma-separated list (@senotrusov)
- [#41](https://github.com/davglass/license-checker/pull/41) Merge pull request #41 from ptusch/ft_path_to_unknown_dependency (@ptusch)
- [1ff5f22](https://github.com/davglass/license-checker/commit/1ff5f225fd2ba97edfd3ef3f6462981832740c19) Add option to see the path of a dependency if unknown (@ptusch)
- [ea4d629](https://github.com/davglass/license-checker/commit/ea4d6297de32d94201bb4786da7ba824d928c8f2) Add additional 'undefined' checks (@ptusch)
- [af043a2](https://github.com/davglass/license-checker/commit/af043a2c11af45d28bfe71914cd10672855b3297)

Merge branch 'master' into ft_custom_format (@ptusch)
- [2d94a19](https://github.com/davglass/license-checker/commit/2d94a19ece177836345a4227893a82d956141b2e) updating the docs for --unknown to make it clear (@davglass)
- [38a2bd2](https://github.com/davglass/license-checker/commit/38a2bd28a9597fdb06d844258f1070054b38bbcf) Fix codestyle and whitespaces (@ptusch)
- [dd173ba](https://github.com/davglass/license-checker/commit/dd173badc65368dc6140476ffe5ae3768fbf9618) Add --customPath in README.md (@ptusch)
- [911fc1c](https://github.com/davglass/license-checker/commit/911fc1c6b5cc27a32aac60bb409c08be138bc707) Finalize the customFormat (markdown) (@ptusch)
- [8102091](https://github.com/davglass/license-checker/commit/8102091f7949fa8b73cfc803e4aead3624b81148) Add functionality to add a custom format (@ptusch)

v3.1.0 (2015/06/29 14:25 +00:00)
- [59e1e58](https://github.com/davglass/license-checker/commit/59e1e58ca0bea1cd38e3da1712fe7ca624d860b0) 3.1.0 (@davglass)
- [0e33f7a](https://github.com/davglass/license-checker/commit/0e33f7a2cb9fa69d13d1e2b5c69f70f885e09e08) reformatted code, fixed lint issues and added tests (@davglass)
- [83a7f09](https://github.com/davglass/license-checker/commit/83a7f0933d1cc1f331279e53fcce13e4efface91) Merge branch 'asMarkdown' of git://github.com/ptusch/license-checker into ptusch-asMarkdown (@davglass)
- [703ad47](https://github.com/davglass/license-checker/commit/703ad4714173559e05267e8fd24c74e5b9d3aee0) fixing tests (@davglass)
- [2d9fffd](https://github.com/davglass/license-checker/commit/2d9fffd75192e9812692c9099481d23e265bb493) Added Markdown Option (@ptusch)
- [67dca36](https://github.com/davglass/license-checker/commit/67dca365b941a7265e4a98d2de533b22c761b169) Remove color tags (@ptusch)

v3.0.3 (2015/06/03 13:35 +00:00)
- [7475c12](https://github.com/davglass/license-checker/commit/7475c129bf291289e4616d9692a962ae537401e8) 3.0.3 (@davglass)
- [c7dae0f](https://github.com/davglass/license-checker/commit/c7dae0fe5317a17b3aef61e8c118fafc6bb43a56) spdx license (@davglass)

v3.0.2 (2015/05/12 20:29 +00:00)
- [01f3b53](https://github.com/davglass/license-checker/commit/01f3b5384998be6243d38e0d95a4478e5fe3cfa5) 3.0.2 (@davglass)
- [fc0c083](https://github.com/davglass/license-checker/commit/fc0c0832ee291c55e53efe6b37a7b9d89f191bc7) defensive code, fixes #34 (@davglass)

v3.0.1 (2015/05/04 12:28 +00:00)
- [0479570](https://github.com/davglass/license-checker/commit/0479570faf87eccc9b37fbb25afaee7faaec6636) 3.0.1 (@davglass)
- [d85e355](https://github.com/davglass/license-checker/commit/d85e355b55998952facf202eabf8d374fec69a7e) Checking for valid path first (@davglass)

v3.0.0 (2015/04/24 14:38 +00:00)
- [e22b61d](https://github.com/davglass/license-checker/commit/e22b61d5d32fef7ffb18627f55a97e1863a78096) 3.0.0 (@davglass)
- [fde9635](https://github.com/davglass/license-checker/commit/fde963583dd207eca4badffb3e0d033a038f17b5)

always try to find and log the
license file (@davglass)

v2.0.2 (2015/01/26 18:18 +00:00)
- [490f31d](https://github.com/davglass/license-checker/commit/490f31d6820f068814cfe27adf3af1ac6d58f733) 2.0.2 (@davglass)
- [a3fefdb](https://github.com/davglass/license-checker/commit/a3fefdb8fafd7ec64714defb793d757a9e8ad065) fixes #30 (@davglass)

v2.0.1 (2015/01/12 18:34 +00:00)
- [898fbd5](https://github.com/davglass/license-checker/commit/898fbd53fa289338cf8a9a1735eea440c2a6c525) 2.0.1 (@davglass)
- [2da23db](https://github.com/davglass/license-checker/commit/2da23db2f240e7e73efdf93cc554e4d7783af225) cleaned up spacing and moved vars around (@davglass)
- [d47dbe4](https://github.com/davglass/license-checker/commit/d47dbe45c992dbbdb15bfb45e8af7f18ee0ca737) fixes #29 (@davglass)

v2.0.0 (2014/12/04 16:34 +00:00)
- [f94edfe](https://github.com/davglass/license-checker/commit/f94edfec7a9914b4a36f455e8bffc6230d6f7a5e) 2.0.0 (@davglass)
- [f4c7b1a](https://github.com/davglass/license-checker/commit/f4c7b1a3d4e9c0e4753a9b267e51714fe7f7051e) syntax cleanup (@davglass)
- [d189623](https://github.com/davglass/license-checker/commit/d1896234a5649621ee57ff9a901877d769217194) Document CLI options in Readme. (@timoxley)
- [11e204c](https://github.com/davglass/license-checker/commit/11e204c5c078eaee1f165fa010da229d2a9fb4b5) Default to --no-colour for json, csv & file output. (@timoxley)
- [7e80d50](https://github.com/davglass/license-checker/commit/7e80d50c733f8ee42c7b4a79dc3344b3dd330cff) Add --out flag for writing an output file. (@timoxley)
- [47bffc9](https://github.com/davglass/license-checker/commit/47bffc9e0e249b2847c8ed4f3eaadb0dcdd731b9) Always print to stdout, don't write files. (@timoxley)
- [b725080](https://github.com/davglass/license-checker/commit/b725080d2dbdfddbf0994867577d4c5e3dc0ee2a) Don't print info messages to stdout. (@timoxley)

v1.0.1 (2014/11/27 15:23 +00:00)
- [e60f792](https://github.com/davglass/license-checker/commit/e60f792159351aa7ccff1f7af73e289afee261a5) 1.0.1 (@davglass)
- [3f74178](https://github.com/davglass/license-checker/commit/3f7417822dc8804978d1bae4ed84190d327df15c) Merge branch 'fixinfiniterecursion' of github.com:yzapuchlak/license-checker into yzapuchlak-fixinfiniterecursion (@davglass)
- [dc78ea0](https://github.com/davglass/license-checker/commit/dc78ea0dca546283440c89fec2dc6818dc4cc1c1) sticking vows 0.8.0 for testing (@davglass)
- [bd549b3](https://github.com/davglass/license-checker/commit/bd549b3b68e74fddd0e08dac10d5f88a8bb51ca6) Fixed issue where circular dependencies in dependency tree would cause the flatten function to infinitely recurse. If the current key is found to be already in the data object (which means it was already processed), we stop processing that key and return the data object. (@yzapuchlak)

v1.0.0 (2014/11/21 13:56 +00:00)

- [917193d](https://github.com/davglass/license-checker/commit/917193dab27147534976b71307a77f48198ca322) 1.0.0 (@davglass)
- [63e5f9c](https://github.com/davglass/license-checker/commit/63e5f9c77e348720b3867171bcc67541e846d088) added options.filter to checker.init (@davglass)

v0.1.2 (2014/11/20 15:48 +00:00)
- [8e5f5f0](https://github.com/davglass/license-checker/commit/8e5f5f0e7f83252e4039f6c7d16cc266acc1a33a) 0.1.2 (@davglass)
- [3d7a74e](https://github.com/davglass/license-checker/commit/3d7a74e90122f908057b2008ab29d8bd49011291) fixed lint issue (@davglass)

v0.1.1 (2014/11/20 15:47 +00:00)
- [750d507](https://github.com/davglass/license-checker/commit/750d5079d32b44ecc984ff7ed672498d1b197235) 0.1.1 (@davglass)
- [94522e0](https://github.com/davglass/license-checker/commit/94522e099434dfdf163c3f2c5cacb3e6aa196cf8) fixed merge issues (@davglass)

v0.1.0 (2014/11/20 15:41 +00:00)
- [8127f5e](https://github.com/davglass/license-checker/commit/8127f5e79eeceb7dfd86cd5f694080e4183dcb11) 0.1.0 (@davglass)
- [76c71ac](https://github.com/davglass/license-checker/commit/76c71ac46baeca8c349fe5892dcb659e859b9608) Updated to newer read-installed (@davglass)

v0.0.10 (2014/08/12 12:48 +00:00)
- [807507d](https://github.com/davglass/license-checker/commit/807507df1a293bc0360adffd725a9f911331ff2b) 0.0.10 (@davglass)
- [e39ad9b](https://github.com/davglass/license-checker/commit/e39ad9bce6bcd545772c241e2e7aba8f40d5bbbb) Added checking that the license file is a normal file, because otherwise an appropriately named directory crashes the license-checker through EISDIR, illegal operation on a directory.
- [40ca4da](https://github.com/davglass/license-checker/commit/40ca4dadbc163ca774c87b1de249bd295952faa9) colorize (@couchand)

v0.0.9 (2014/07/29 01:48 +00:00)
- [c14ef79](https://github.com/davglass/license-checker/commit/c14ef79f10f950ff0985e7e0b3138147b98ab1ec) 0.0.9 (@davglass)
- [ba1b66b](https://github.com/davglass/license-checker/commit/ba1b66b6172a2f9f8dbcdc56f40206820bc0916b) Fixes #12 - Using some nicer regexes (@davglass)
- [bce94d5](https://github.com/davglass/license-checker/commit/bce94d5a8ab2f146356851776b2543df65fbf750) case insensative check (@davglass)
- [87c3406](https://github.com/davglass/license-checker/commit/87c3406aee2507eaf1d00d592f6dcb59a16e7c48) Allow for LICENCE (@gdw2)

v0.0.8 (2014/07/07 20:10 +00:00)
- [6ad6ee2](https://github.com/davglass/license-checker/commit/6ad6ee21813e698e7f995e98dcadafbd961f6a33) 0.0.8 (@davglass)
- [b8c5815](https://github.com/davglass/license-checker/commit/b8c58151135f57d91fb0d1cfb194d034c012073f)

added tests and refactored the code a little (@davglass)
- [275f276](https://github.com/davglass/license-checker/commit/275f276dc6e6d5635f9cb5b7e9a978e286f2d174) Added --csv option to readme file
- [d91eb72](https://github.com/davglass/license-checker/commit/d91eb7289466853ae6e88448b953b4d3d98ebab5) Apparently abbrev is now at version 1.0.5 which caused the unit test to fail.
- [40b4a42](https://github.com/davglass/license-checker/commit/40b4a420e520c2008b9395d1a8fdf38b56f846f5) Modified changes based on lshint output during Travis build
- [54e2390](https://github.com/davglass/license-checker/commit/54e2390cefd1dc664a15cd3a84347227f889f48b) Added csv output option similar to the existing JSON output option. Requires an output filename.

v0.0.7 (2014/02/26 04:52 +00:00)
- [1ce6d42](https://github.com/davglass/license-checker/commit/1ce6d42147b2d0237870818e8059003b331816cf) 0.0.7 (@davglass)
- [7d04195](https://github.com/davglass/license-checker/commit/7d041959450c68b3c5f427007c43cd6c73c6adfb) Added not check and a proper test (@davglass)
- [40d6e25](https://github.com/davglass/license-checker/commit/40d6e2580946c3cee1d408ebe28ff523852e8eb2) Undefined handling (@garrows)
- [90217d0](https://github.com/davglass/license-checker/commit/90217d070fd62cf76eb4e7b1610ed5eef6ae840d) travis Stuff (@davglass)
- [2bd76c8](https://github.com/davglass/license-checker/commit/2bd76c894f740cd83f6246e0e7341832c6432d8b) 0.0.6 (@davglass)
- [6f390ff](https://github.com/davglass/license-checker/commit/6f390fff60b31a07939e6d325796bdcbfefb5907) Added some better tests
(@davglass)
- [2dbcac3](https://github.com/davglass/license-checker/commit/2dbcac37b5795ceb6db53452d0e41d1c4bc3153f) Looking for WTFPL as well as the string (@davglass)
- [5d91a07](https://github.com/davglass/license-checker/commit/5d91a073a8b76ec9a497c1e3b83198ce97e144fd) Flattened array of one (@davglass)
- [e95da82](https://github.com/davglass/license-checker/commit/e95da820c63e0d56c4567f1cfad07142d3110eca) Fixed extra var (@davglass)
- [fe8f2f7](https://github.com/davglass/license-checker/commit/fe8f2f7d39d520c0c4d87d34c9d4f55d59f4222d) Removing unecessary log statement (@paulmand3l)
- [72a6f24](https://github.com/davglass/license-checker/commit/72a6f2403de43ecf5ec07bb504cb931c0e53f6a3) Adding license checks in the LICENSE file (and variations) (@paulmand3l)
- [#7](https://github.com/davglass/license-checker/pull/7) Merge pull request #7 from jamesbloomer/master (@jamesbloomer)
- [a81eee0](https://github.com/davglass/license-checker/commit/a81eee0a27f580688e371cc15015e848f591bb92) Fixed missing "install" in npm -g (@jamesbloomer)
- [416b012](https://github.com/davglass/license-checker/commit/416b01219e07a8274e05cd883ec050376902adeb) Updated Version (@davglass)
- [6d9bd1e](https://github.com/davglass/license-checker/commit/6d9bd1e195202c871693d4b1e9bac8c055683e8b) Fixed lint issue and added a test placeholder. Will add more tests soon (@davglass)
- [655a316](https://github.com/davglass/license-checker/commit/655a316f6448daf3c449f8b88e8878a95a8b153e) Added Travis test file (@davglass)
- [99895df](https://github.com/davglass/license-checker/commit/99895df6d3ac0f9ae4e8c935311fb1b3f88a688e) Version Bump (@davglass)
- [#4](https://github.com/davglass/license-checker/pull/4) Merge pull request #4 from badunk/refactor (@badunk)
- [1123a1b](https://github.com/davglass/license-checker/commit/1123a1baefc1975f8c36cb59952254cd66c31017)

Merge branch 'master' of https://github.com/davglass/license-checker (@badunk)
- [191612e](https://github.com/davglass/license-checker/commit/191612e5c21a01bd453368299a14cc5ff1c6fb13)
 Version Bump (@davglass)
- [#2](https://github.com/davglass/license-checker/pull/2) Merge pull request #2 from badunk/circular (@badunk)
- [9b5a117](https://github.com/davglass/license-checker/commit/9b5a1175892254e96d72f3d8dc793dcc4e2bde37)
fixed special case when an empty array is passed to license/licenses (@badunk)
- [025668b](https://github.com/davglass/license-checker/commit/025668b0a62b0d5b58662ce6aeed91de909a6fef)
fixed bug with multiple licenses objects not showing (@badunk)
- [e6bdf52](https://github.com/davglass/license-checker/commit/e6bdf52a8e5f9ebed29982014fa4d4586f63d06a)
cleaned up the code (@badunk)
- [efb62f2](https://github.com/davglass/license-checker/commit/efb62f2f52a29e9a37a7f387b280fc17ab0a5f19)
added check for circular dependencies (@badunk)
- [825b40c](https://github.com/davglass/license-checker/commit/825b40cb61fee36dd60751daa9d44e28853587ac)
Version Bump (@davglass)
- [#1](https://github.com/davglass/license-checker/pull/1)
 Merge pull request #1 from mwilliamson/master (@mwilliamson)
- [2f24319](https://github.com/davglass/license-checker/commit/2f24319dd8dd212a1f78ad91af7fee21d50ab762)
Don't ignore license field if it's a string (@mwilliamson)
- [7b8c34f](https://github.com/davglass/license-checker/commit/7b8c34f75b04a7541bf23d596bbaae5447492c53)
Initial Commit (@davglass)
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 "name": "",
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 "licenses": "",
 "licenseFile": "none",
 "licenseText": "none",
 "licenseModified": "no"
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1.6400 jest-watch-typeahead/node_modules/has-flag 4.0.0

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1.6401 jest-diff/node_modules/chalk 4.1.2

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1.6402 react-dev-utils/node_modules/ansi-styles 4.3.0

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1.6403 eslint/node_modules/color-convert 2.0.1

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node-http-proxy

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// Original can be found at:
// https://bitbucket.org/lindenlab/llsd
// Modifications by Joshua Bell inexorabletash@gmail.com
// https://github.com/inexorabletash/polyfill

// ES3/ES5 implementation of the Krhonos Typed Array Specification
// Ref: http://www.khronos.org/registry/typedarray/specs/latest/
// Date: 2011-02-01
//
// Variations:
// * Allows typed_array.get/set() as alias for subscripts (typed_array[])
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spdx-license-ids

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Installation

[Download JSON directly](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/index.json), or [use](https://docs.npmjs.com/cli/install) [npm](https://docs.npmjs.com/about-npm/):

```
npm install spdx-license-ids
```

[Node.js](https://nodejs.org/) API

require('spdx-license-ids')

Type: `string[]`

All license IDs except for the currently deprecated ones.

```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'ADSL', 'AFL-1.1', 'AFL-1.2', 'AFL-2.0', 'AFL-2.1', 'AFL-3.0', 'AGPL-1.0-only', ...]

ids.includes('BSD-3-Clause'); //=> true
ids.includes('CC-BY-1.0'); //=>
 true

ids.includes('GPL-3.0'); //=> false
```

require('spdx-license-ids/deprecated')

Type: `string[]`

Deprecated license IDs.

```javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
//=> ['AGPL-1.0', 'AGPL-3.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', 'GPL-2.0', ...]

deprecatedIds.includes('BSD-3-Clause'); //=> false
deprecatedIds.includes('CC-BY-1.0'); //=> false

deprecatedIds.includes('GPL-3.0'); //=> true
```

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Some files from the tests folder are from joyent/node and mscedex/io.js, a fork
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- tests/iojs/test-http-parser-durability.js

This file is from https://github.com/mscdex/io.js/blob/js-http-parser/test/pummel/test-http-parser-durability.js
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"""

- tests/fixtures/*
tests/parallel/*
tests/testpy/*
tests/common.js
tests/test.py
tests/utils.py

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validate-npm-package-license
==========

Give me a string and I'll tell you if it's a valid npm package license string.

```javascript
var valid = require('validate-npm-package-license');
```

SPDX license identifiers are valid license strings:

```javascript

var assert = require('assert');
var validSPDXExpression = {
 validForNewPackages: true,
 validForOldPackages: true,
 spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
```

The function will return a warning and suggestion for nearly-correct license identifiers:

```javascript
assert.deepEqual(
 valid('Apache 2.0'),
 {
   validForOldPackages: false,
   validForNewPackages: false,
   warnings: [
     'license should be ' +
     'a valid SPDX license expression (without "LicenseRef"), ' +
     '"UNLICENSED", or ' +
      '"SEE LICENSE IN <filename>"',
     'license is similar to the valid expression "Apache-2.0"'
   ]
 }
);
```

SPDX expressions are valid, too ...

```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
 valid('(GPL-3.0-only OR BSD-2-Clause)'),
 validSPDXExpression
);
```

... except if they contain `LicenseRef`:

```javascript
var warningAboutLicenseRef = {
 validForOldPackages: false,
 validForNewPackages: false,
 spdx: true,
 warnings: [
   'license should be ' +
   'a valid SPDX license expression (without "LicenseRef"), ' +
   '"UNLICENSED", or ' +
   '"SEE LICENSE IN <filename>"',
 ]
};

assert.deepEqual(
 valid('LicenseRef-Made-Up'),
 warningAboutLicenseRef
);

assert.deepEqual(
 valid('(MIT OR LicenseRef-Made-Up)'),
 warningAboutLicenseRef
);
```

If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```javascript
assert.deepEqual(
 valid('SEE
 LICENSE IN LICENSE.txt'),
 {
   validForNewPackages: true,
   validForOldPackages: true,
   inFile: 'LICENSE.txt'
 }
```

```
);

assert.deepEqual(
 valid('SEE LICENSE IN license.md'),
 {
   validForNewPackages: true,
   validForOldPackages: true,
   inFile: 'license.md'
 }
);
```

If there aren't any licensing terms, use `UNLICENSED`:

```javascript
var unlicensed = {
 validForNewPackages: true,
 validForOldPackages: true,
 unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);
```

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1.6404 jest-circus/node_modules/color-name 1.1.4

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Repository: git://github.com/paulmillr/readdirp.git

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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1.6.1	1.6	2001	CNRI	yes (2)
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- tests/iojs/test-http-parser-durability.js

This file is from https://github.com/mscdex/io.js/blob/js-http-parser/test/pummel/test-http-parser-durability.js with modifications by Jan Schr (jscissr).

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"""

- tests/fixtures/*
tests/parallel/*
tests/testpy/*
tests/common.js
tests/test.py
tests/utils.py

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1.6405

hpack.js/node_modules/string_decoder 1.1.1

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1.6407 pkg-up/node_modules/find-up 3.0.0

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1.6408 jest-circus/node_modules/color-convert 2.0.1

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By: Gulp Team, Elan Shanker, Blaine Bublitz
Repository: gulpjs/glob-parent

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hash.js
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Repository: git@github.com:indutny/hash.js

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inherits
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magic-string

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readdirp
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Repository: git://github.com/paulmillr/readdirp.git

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signal-exit
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By: Ben Coe
Repository: https://github.com/tapjs/signal-exit.git

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By: Rich Harris
Repository: https://github.com/Rich-Harris/sourcemap-codec

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for

National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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node-http-proxy

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TypeBox: JSON Schema Type Builder with Static Type Resolution for TypeScript

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TypeBox: JSON Schema Type Builder with Static Type Resolution for TypeScript

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spdx-license-ids

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Installation

[Download JSON directly](https://raw.githubusercontent.com/jslicense/spdx-license-ids/main/index.json), or [use](https://docs.npmjs.com/cli/install) [npm](https://docs.npmjs.com/about-npm/):

```
npm install spdx-license-ids
```

[Node.js](https://nodejs.org/) API

require('spdx-license-ids')

Type: `string[]`

All license IDs except for the currently deprecated ones.

```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'ADSL', 'AFL-1.1', 'AFL-1.2', 'AFL-2.0', 'AFL-2.1', 'AFL-3.0', 'AGPL-1.0-only', ...]
```

```
ids.includes('BSD-3-Clause'); //=> true
ids.includes('CC-BY-1.0');
 //=> true

ids.includes('GPL-3.0'); //=> false
```

require('spdx-license-ids/deprecated')

Type: `string[]`

Deprecated license IDs.

```javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
//=> ['AGPL-1.0', 'AGPL-3.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', 'GPL-2.0', ...]

deprecatedIds.includes('BSD-3-Clause'); //=> false
deprecatedIds.includes('CC-BY-1.0'); //=> false

deprecatedIds.includes('GPL-3.0'); //=> true
```

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- tests/iojs/test-http-parser-durability.js

This file is from https://github.com/mscdex/io.js/blob/js-http-parser/test/pummel/test-http-parser-durability.js
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"""

- tests/fixtures/*
tests/parallel/*
tests/testpy/*
tests/common.js
tests/test.py
tests/utils.py

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validate-npm-package-license
==========

Give me a string and I'll tell you if it's a valid npm package license string.

```javascript
var valid = require('validate-npm-package-license');
```

SPDX license identifiers are valid license strings:

```javascript

var assert = require('assert');
var validSPDXExpression = {
 validForNewPackages: true,
 validForOldPackages: true,
 spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
```
The function will return a warning and suggestion for nearly-correct license identifiers:

```javascript
assert.deepEqual(
 valid('Apache 2.0'),
 {
   validForOldPackages: false,
   validForNewPackages: false,
   warnings: [
     'license should be ' +
     'a valid SPDX license expression (without "LicenseRef"), ' +
     '"UNLICENSED", or ' +
      '"SEE LICENSE IN <filename>"',
     'license is similar to the valid expression "Apache-2.0"'
   ]
 }
);
```

SPDX expressions are valid, too ...

```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
 valid('(GPL-3.0-only OR BSD-2-Clause)'),
 validSPDXExpression
);
```

... except if they contain `LicenseRef`:

```javascript
```

```
var warningAboutLicenseRef = {
 validForOldPackages: false,
 validForNewPackages: false,
 spdx: true,
 warnings: [
   'license should be ' +
   'a valid SPDX license expression (without "LicenseRef"), ' +
   '"UNLICENSED", or ' +
   '"SEE LICENSE IN <filename>"',
 ]
};

assert.deepEqual(
 valid('LicenseRef-Made-Up'),
 warningAboutLicenseRef
);

assert.deepEqual(
 valid('(MIT OR LicenseRef-Made-Up)'),
 warningAboutLicenseRef
);
```

If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```javascript
assert.deepEqual(
 valid('SEE
 LICENSE IN LICENSE.txt'),
 {
   validForNewPackages: true,
   validForOldPackages: true,
   inFile: 'LICENSE.txt'
 }
);

assert.deepEqual(
 valid('SEE LICENSE IN license.md'),
 {
   validForNewPackages: true,
   validForOldPackages: true,
   inFile: 'license.md'
 }
);
```

If there aren't any licensing terms, use `UNLICENSED`:

```javascript
var unlicensed = {
 validForNewPackages: true,
 validForOldPackages: true,
 unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);
```

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1.6409 react-dev-utils/node_modules/has-flag 4.0.0

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1.6413 jest-validate/node_modules/has-flag 4.0.0

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1.6414 svgr-babel-plugin-transform-svg-component 5.5.0

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1.6416 jest-watcher/node_modules/ansi-styles 4.3.0

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1.6417 terser/node_modules/commander 2.20.3

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1.6418 jest-circus/node_modules/ansi-styles 4.3.0

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1.6419 @babel/plugin-transform-runtime/node_modules/semver 6.3.1

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1.6420 jest-circus/node_modules/has-flag 4.0.0

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Repository: jonschlinkert/fill-range

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hash.js
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Repository: git@github.com:indutny/hash.js

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magic-string
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Repository: git://github.com/paulmillr/readdirp.git

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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Thanks to the many outside volunteers who have worked under Guido's
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node-http-proxy

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1.6421 jest-matcher-utils/node_modules/color-name 1.1.4

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1.6422 postcss-svgo/node_modules/svgo 2.8.0

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1.6423 @eslint/eslintrc/node_modules/globals 13.17.0

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1.6424 escodegen/node_modules/type-check 0.3.2

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1.6425 jest-validate/node_modules/color-name 1.1.4

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1.6426 whatwg-encoding/node_modules/iconv-lite 0.4.24

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1.6427 @jest/types/node_modules/has-flag 4.0.0

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1.6428 jest-matcher-utils/node_modules/has-flag 4.0.0

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1.6429 @jest/transform/node_modules/supports-color 7.2.0

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1.6430 @jest/transform/node_modules/color-convert 2.0.1

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1.6431 babel-jest/node_modules/has-flag 4.0.0

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1.6432 jest-util/node_modules/has-flag 4.0.0

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1.6433 @eslint/eslintrc/node_modules/argparse 2.0.1

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1.6434 webpack/node_modules/eslint-scope 5.1.1

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```
{
 "foo": "static"
}
```

{
 "foo": "dynamic"
}
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1.6435 ajv-formats/node_modules/json-schema-traverse 1.0.0

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1.6436 jest-each/node_modules/color-name 1.1.4

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1.6437 eslint/node_modules/chalk 4.1.2

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Repository: https://github.com/Rich-Harris/sourcemap-codec

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Repository: micromatch/to-regex-range

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
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2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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node-http-proxy

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- tests/iojs/test-http-parser-durability.js

This file is from https://github.com/mscdex/io.js/blob/js-http-parser/test/pummel/test-http-parser-durability.js

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- tests/fixtures/*
tests/parallel/*
tests/testpy/*
tests/common.js
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1.6438 jest-watch-typeahead/node_modules/jest-regex-util 28.0.2

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1.6439 jest-cli/node_modules/supports-color 7.2.0

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1.6440 jest-runner/node_modules/supports-color 7.2.0

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1.6441 @jest/console/node_modules/supports-color 7.2.0

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1.6442 acorn-globals/node_modules/acorn 7.4.1

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1.6443 jest-util/node_modules/supports-color 7.2.0

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1.6444 jest-matcher-utils/node_modules/color-convert 2.0.1

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1.6445 @jest/core/node_modules/ansi-styles 4.3.0

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1.6446 istanbul-lib-report/node_modules/supports-color 7.2.0

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1.6447 wrap-ansi/node_modules/color-convert 2.0.1

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3.1.0 / 2017-09-26
==========

* Add `DEBUG_HIDE_DATE` env var (#486)
* Remove ReDoS regexp in %o formatter (#504)
* Remove "component" from package.json
* Remove `component.json`
* Ignore package-lock.json
* Examples: fix colors printout
* Fix: browser detection
* Fix: spelling mistake (#496, @EdwardBetts)

3.0.1 / 2017-08-24
==========

* Fix: Disable colors in Edge and Internet Explorer (#489)

3.0.0 / 2017-08-08
==========

* Breaking: Remove DEBUG_FD (#406)
* Breaking: Use `Date#toISOString()` instead to `Date#toUTCString()` when output is not a TTY (#418)
* Breaking: Make millisecond timer namespace specific and allow 'always enabled' output (#408)
* Addition: document `enabled` flag (#465)
* Addition: add 256 colors mode (#481)
* Addition: `enabled()` updates existing debug instances, add `destroy()` function (#440)
* Update: component: update "ms" to v2.0.0
* Update: separate the Node and Browser tests in Travis-CI
* Update:
refactor Readme, fixed documentation, added "Namespace Colors" section, redid screenshots
* Update: separate Node.js and web browser examples for organization

* Update: update "browserify" to v14.4.0
* Fix: fix Readme typo (#473)

2.6.9 / 2017-09-22
==========

* remove ReDoS regexp in %o formatter (#504)

2.6.8 / 2017-05-18
==========

* Fix: Check for undefined on browser globals (#462, @marbemac)

2.6.7 / 2017-05-16
==========

* Fix: Update ms to 2.0.0 to fix regular expression denial of service vulnerability (#458, @hubdotcom)
* Fix: Inline extend function in node implementation (#452, @dougwilson)
* Docs: Fix typo (#455, @msasad)

2.6.5 / 2017-04-27
==========

* Fix: null reference check on window.documentElement.style.WebkitAppearance (#447, @thebigredgeek)
* Misc: clean up browser reference checks (#447, @thebigredgeek)
* Misc: add npm-debug.log to .gitignore (@thebigredgeek)

2.6.4 / 2017-04-20
==========

* Fix: bug that would occur if process.env.DEBUG is a non-string value. (#444, @LucianBuzzo)
* Chore: ignore bower.json in npm installations. (#437, @joaovieira)
* Misc: update "ms" to v0.7.3 (@tootallnate)

2.6.3 / 2017-03-13
==========

* Fix: Electron reference to `process.env.DEBUG` (#431, @paulcbetts)
* Docs: Changelog fix (@thebigredgeek)

2.6.2 / 2017-03-10
==========

* Fix: DEBUG_MAX_ARRAY_LENGTH (#420, @slavaGanzin)
* Docs: Add backers and sponsors from Open Collective (#422, @piamancini)
* Docs: Add Slackin invite badge (@tootallnate)

2.6.1 / 2017-02-10
==========

* Fix: Module's `export default` syntax fix for IE8 `Expected identifier` error
* Fix: Whitelist DEBUG_FD for values 1 and 2 only (#415, @pi0)
* Fix: IE8 "Expected identifier" error (#414, @vgoma)
* Fix: Namespaces would not disable once enabled (#409, @musikov)

2.6.0 / 2016-12-28
==========

* Fix: added better null pointer checks for browser useColors (@thebigredgeek)
* Improvement: removed explicit `window.debug` export (#404, @tootallnate)
* Improvement: deprecated `DEBUG_FD` environment variable (#405, @tootallnate)

2.5.2 / 2016-12-25
==========

* Fix: reference error on window within webworkers (#393, @KlausTrainer)
* Docs: fixed README typo (#391, @lurch)
* Docs: added notice about v3 api discussion (@thebigredgeek)

2.5.1 / 2016-12-20
==========

* Fix: babel-core compatibility

2.5.0 / 2016-12-20
==========

* Fix: wrong reference in bower file (@thebigredgeek)
* Fix: webworker compatibility (@thebigredgeek)
* Fix: output formatting issue (#388, @kribblo)
* Fix: babel-loader compatibility (#383, @escwald)
* Misc: removed built asset from repo and publications (@thebigredgeek)
* Misc: moved source files to /src (#378, @yamikuronue)
* Test: added karma integration and replaced babel with browserify for browser tests (#378, @yamikuronue)
* Test: coveralls integration (#378, @yamikuronue)
* Docs: simplified language in the opening paragraph (#373, @yamikuronue)

2.4.5 / 2016-12-17
==========

* Fix: `navigator` undefined in Rhino (#376, @jochenberger)
* Fix: custom log function (#379, @hsiliev)
* Improvement: bit of cleanup + linting fixes (@thebigredgeek)

* Improvement: rm non-maintainted `dist/` dir (#375, @freewil)
* Docs: simplified language in the opening paragraph. (#373, @yamikuronue)

2.4.4 / 2016-12-14
==========

* Fix: work around debug being loaded in preload scripts for electron (#368, @paulcbetts)

2.4.3 / 2016-12-14
==========

* Fix: navigation.userAgent error for react native (#364, @escwald)

2.4.2 / 2016-12-14
==========

* Fix: browser colors (#367, @tootallnate)
* Misc: travis ci integration (@thebigredgeek)
* Misc: added linting and testing boilerplate with sanity check (@thebigredgeek)

2.4.1 / 2016-12-13
==========

* Fix: typo that broke the package (#356)

2.4.0 / 2016-12-13
==========

* Fix: bower.json references unbuilt src entry point (#342, @justmatt)
* Fix: revert "handle regex special characters" (@tootallnate)
* Feature: configurable util.inspect()`options for NodeJS (#327, @tootallnate)
* Feature: %O`(big O) pretty-prints objects (#322, @tootallnate)
* Improvement: allow colors in workers (#335, @botverse)
* Improvement: use same color for same namespace. (#338, @lchenay)

2.3.3 / 2016-11-09
==========

* Fix: Catch `JSON.stringify()` errors (#195, Jovan Alleyne)
* Fix: Returning `localStorage` saved values (#331, Levi Thomason)
* Improvement: Don't create an empty object when no `process` (Nathan Rajlich)

2.3.2 / 2016-11-09
==========

* Fix: be super-safe in index.js as well (@TooTallNate)
* Fix: should check whether process exists (Tom Newby)

2.3.1 / 2016-11-09
==========

* Fix: Added electron compatibility (#324, @paulcbetts)
* Improvement: Added performance optimizations (@tootallnate)
* Readme: Corrected PowerShell environment variable example (#252, @gimre)
* Misc: Removed yarn lock file from source control (#321, @fengmk2)

2.3.0 / 2016-11-07
==========

* Fix: Consistent placement of ms diff at end of output (#215, @gorangajic)
* Fix: Escaping of regex special characters in namespace strings (#250, @zacronos)
* Fix: Fixed bug causing crash on react-native (#282, @vkarpov15)
* Feature: Enabled ES6+ compatible import via default export (#212 @bucaran)
* Feature: Added %O formatter to reflect Chrome's console.log capability (#279, @oncletom)
* Package: Update "ms" to 0.7.2 (#315, @DevSide)
* Package: removed superfluous version property from bower.json (#207 @kkirsche)
* Readme: fix USE_COLORS to DEBUG_COLORS
* Readme: Doc fixes for format string sugar (#269, @mlucool)
* Readme: Updated docs for DEBUG_FD and DEBUG_COLORS environment variables (#232, @mattlyons0)
* Readme: doc fixes for PowerShell (#271 #243, @exoticknight
@unreadable)
* Readme: better docs for browser support (#224, @matthewmueller)
* Tooling: Added yarn integration for development (#317, @thebigredgeek)
* Misc: Renamed History.md to CHANGELOG.md (@thebigredgeek)
* Misc: Added license file (#226 #274, @CantemoInternal @sdaitzman)
* Misc: Updated contributors (@thebigredgeek)

2.2.0 / 2015-05-09
==========

* package: update "ms" to v0.7.1 (#202, @dougwilson)
* README: add logging to file example (#193, @DanielOchoa)
* README: fixed a typo (#191, @amir-s)
* browser: expose `storage` (#190, @stephenmathieson)
* Makefile: add a `distclean` target (#189, @stephenmathieson)

2.1.3 / 2015-03-13
==========

* Updated stdout/stderr example (#186)
* Updated example/stdout.js to match debug current behaviour
* Renamed example/stderr.js to stdout.js
* Update Readme.md (#184)
* replace high intensity foreground color for bold (#182, #183)

2.1.2 / 2015-03-01

==========

* dist: recompile
*
update "ms" to v0.7.0
* package: update "browserify" to v9.0.3
* component: fix "ms.js" repo location
* changed bower package name
* updated documentation about using debug in a browser
* fix: security error on safari (#167, #168, @yields)

2.1.1 / 2014-12-29
==========

* browser: use `typeof` to check for `console` existence
* browser: check for `console.log` truthiness (fix IE 8/9)
* browser: add support for Chrome apps
* Readme: added Windows usage remarks
* Add `bower.json` to properly support bower install

2.1.0 / 2014-10-15
==========

* node: implement `DEBUG_FD` env variable support
* package: update "browserify" to v6.1.0
* package: add "license" field to package.json (#135, @panuhorsmalahti)

2.0.0 / 2014-09-01
==========

* package: update "browserify" to v5.11.0
* node: use stderr rather than stdout for logging (#29, @stephenmathieson)

1.0.4 / 2014-07-15
==========

* dist: recompile
* example: remove `console.info()`
log usage
* example: add "Content-Type" UTF-8 header to browser example
* browser: place %c marker after the space character
* browser: reset the "content" color via `color: inherit`
* browser: add colors support for Firefox >= v31
* debug: prefer an instance `log()` function over the global one (#119)
* Readme: update documentation about styled console logs for FF v31 (#116, @wryk)

1.0.3 / 2014-07-09
==========

* Add support for multiple wildcards in namespaces (#122, @seegno)
* browser: fix lint

1.0.2 / 2014-06-10
==========

* browser: update color palette (#113, @gscottolson)
* common: make console logging function configurable (#108, @timoxley)
* node: fix %o colors on old node <= 0.8.x
* Makefile: find node path using shell/which (#109, @timoxley)

1.0.1 / 2014-06-06
==========

* browser: use `removeItem()` to clear localStorage
* browser, node: don't set DEBUG if namespaces is undefined (#107, @leedm777)
* package:
add "contributors" section
* node: fix comment typo
* README: list authors

1.0.0 / 2014-06-04
==========

* make ms diff be global, not be scope
* debug: ignore empty strings in enable()
* node: make DEBUG_COLORS able to disable coloring
* *: export the `colors` array
* npmignore: don't publish the `dist` dir
* Makefile: refactor to use browserify
* package: add "browserify" as a dev dependency
* Readme: add Web Inspector Colors section
* node: reset terminal color for the debug content
* node: map "%o" to `util.inspect()`
* browser: map "%j" to `JSON.stringify()`
* debug: add custom "formatters"
* debug: use "ms" module for humanizing the diff
* Readme: add "bash" syntax highlighting
* browser: add Firebug color support
* browser: add colors for WebKit browsers
* node: apply log to `console`
* rewrite: abstract common logic for Node & browsers
* add .jshintrc file

0.8.1 / 2014-04-14
==========

* package: re-add the
"component" section

0.8.0 / 2014-03-30
==========

* add `enable()` method for nodejs. Closes #27
* change from stderr to stdout
* remove unnecessary index.js file

0.7.4 / 2013-11-13
==========

* remove "browserify" key from package.json (fixes something in browserify)

0.7.3 / 2013-10-30
==========

* fix: catch localStorage security error when cookies are blocked (Chrome)
* add debug(err) support. Closes #46
* add .browser prop to package.json. Closes #42

0.7.2 / 2013-02-06
==========

* fix package.json
* fix: Mobile Safari (private mode) is broken with debug
* fix: Use unicode to send escape character to shell instead of octal to work with strict mode javascript

0.7.1 / 2013-02-05
==========

* add repository URL to package.json
* add DEBUG_COLORED to force colored output
* add browserify support
* fix component. Closes #24

0.7.0 / 2012-05-04
==========

* Added .component to package.json
* Added
debug.component.js build

0.6.0 / 2012-03-16
==========

* Added support for "-" prefix in DEBUG [Vinay Pulim]

* Added `.enabled` flag to the node version [TooTallNate]

0.5.0 / 2012-02-02
==========

* Added: humanize diffs. Closes #8
* Added `debug.disable()` to the CS variant
* Removed padding. Closes #10
* Fixed: persist client-side variant again. Closes #9

0.4.0 / 2012-02-01
==========

* Added browser variant support for older browsers [TooTallNate]
* Added `debug.enable('project:*')` to browser variant [TooTallNate]
* Added padding to diff (moved it to the right)

0.3.0 / 2012-01-26
==========

* Added millisecond diff when isatty, otherwise UTC string

0.2.0 / 2012-01-22
==========

* Added wildcard support

0.1.0 / 2011-12-02
==========

* Added: remove colors unless stderr isatty [TooTallNate]

0.0.1 / 2010-01-03
==========

* Initial release

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```
{
 "name": "",
 'version': "",
 "description": "",
 "licenses": ""
 "licenseFile": "none",
 "licenseModified": "no"
#!/usr/bin/env node

/*
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*/

var checker = require('../lib/index');

var args = require('../lib/args').parse();
var mkdirp = require('mkdirp');
var path = require('path');
var chalk = require('chalk');
var fs = require('fs');

if (args.help) {
  console.error('license-checker@' + require('../package.json').version);
  var usage = [
    '',
    '  --production only show production dependencies.',
    '  --development only show development dependencies.',
    '  --unknown report guessed licenses as unknown licenses.',
    '  --start [path of the initial json to look for]',
    '  --onlyunknown only list packages with unknown or guessed licenses.',
    '  --json output in json format.',
    '  --csv output in csv format.',
    '  --csvComponentPrefix column prefix for components in csv file',
    '  --out [filepath] write
 the data to a specific file.',
    '  --customPath to add a custom Format file in JSON',
    '  --exclude [list] exclude modules which licenses are in the comma-separated list from the output',
    '  --relativeLicensePath output the location of the license files as relative paths',
    '  --summary output a summary of the license usage',
    '  --failOn [list] fail (exit with code 1) on the first occurrence of the licenses of the semicolon-separated list',
    '  --onlyAllow [list] fail (exit with code 1) on the first occurrence of the licenses not in the semicolon-seperated
```

```
list',
      '   --direct look for direct dependencies only',
      '   --packages [list] restrict output to the packages (package@version) in the semicolon-seperated list',
      '   --excludePackages [list] restrict output to the packages (package@version) not in the semicolon-seperated
list',
      '   --excludePrivatePackages restrict output to not include any package marked
 as private',
      '',
      '   --version The current version',
      '   --help  The text you are reading right now :)',
      ''
   ];
   console.error(usage.join('\n'), '\n');
   process.exit(0);
}

if (args.version) {
   console.error(require('../package.json').version);
   process.exit(1);
}

if (args.failOn && args.onlyAllow) {
   console.error('--failOn and --onlyAllow can not be used at the same time. Choose one or the other.');
   process.exit(1);
} else {
   var argValue = args.failOn || args.onlyAllow;
   if (argValue && argValue.indexOf(',') >= 0) {
      var argName = args.failOn ? 'failOn' : 'onlyAllow';
      console.warn('Warning: As of v17 the --' + argName + ' argument takes semicolons as delimeters instead of
commas (some license names can contain commas)');
   }
}

checker.init(args, function(err, json) {

   var formattedOutput = '';

   if (!!err) {
      console.error('Found error');
      console.error(err);
   }

   if (shouldColorizeOutput(args))
 {
      var keys = Object.keys(json);
      keys.forEach(function(key) {
         var keyParts = key.split('@');
         var colorizedKey = chalk.blue(keyParts[0]) + chalk.dim('@') + chalk.green(keyParts[1]);
```

```
        json[colorizedKey] = json[key];
        delete json[key];
      });
  }

  if (args.json) {
      formattedOutput = JSON.stringify(json, null, 2) + '\n';
  } else if (args.csv) {
      formattedOutput = checker.asCSV(json, args.customFormat, args.csvComponentPrefix);
  } else if (args.markdown){
      formattedOutput = checker.asMarkDown(json, args.customFormat) + '\n';
  } else if (args.summary) {
      formattedOutput = checker.asSummary(json);
  } else {
      formattedOutput = checker.asTree(json);
  }

  if (args.files) {
      checker.asFiles(json, args.files);
  } else if (args.out) {
      var dir = path.dirname(args.out);
      mkdirp.sync(dir);
      fs.writeFileSync(args.out, formattedOutput,
 'utf8');
  } else {
      console.log(formattedOutput);
  }
});

function shouldColorizeOutput(args) {
  return args.color && !args.out && !(args.csv || args.json || args.markdown);
}
```

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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<img width="647" src="https://user-images.githubusercontent.com/71256/29091486-fa38524c-7c37-11e7-895f-e7ec8e1039b6.png">

A tiny JavaScript debugging utility modelled after Node.js core's debugging

technique. Works in Node.js and web browsers.

Installation

```bash
$ npm install debug
```

Usage

`debug` exposes a function; simply pass this function the name of your module, and it will return a decorated version of `console.error`
 for you to pass debug statements to. This will allow you to toggle the debug output for different parts of your module as well as the module as a whole.

Example [_app.js_](./examples/node/app.js):

```js
var debug = require('debug')('http')
 , http = require('http')
 , name = 'My App';

// fake app

debug('booting %o', name);

http.createServer(function(req, res){
 debug(req.method + ' ' + req.url);
 res.end('hello\n');
}).listen(3000, function(){
 debug('listening');
});

// fake worker of some kind

require('./worker');
```

Example [_worker.js_](./examples/node/worker.js):

```js
var a = require('debug')('worker:a')
 , b = require('debug')('worker:b');

function work() {
 a('doing lots of uninteresting work');
 setTimeout(work, Math.random() * 1000);
}
```

```
work();

function workb() {
 b('doing some work');
 setTimeout(workb, Math.random() * 2000);
}

workb();
```

The `DEBUG` environment variable is then used to enable these based on space or comma-delimited names.

Here
 are some examples:

<img width="647" alt="screen shot 2017-08-08 at 12 53 04 pm" src="https://user-images.githubusercontent.com/71256/29091703-a6302cdc-7c38-11e7-8304-7c0b3bc600cd.png">
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Windows command prompt notes

CMD

On Windows the environment variable is set using the `set` command.

```cmd
set DEBUG=*,-not_this
```

Example:

```cmd
set DEBUG=* & node app.js
```

PowerShell (VS Code default)

PowerShell uses different syntax to set environment variables.

```cmd
$env:DEBUG = "*,-not_this"
```

Example:

```cmd
$env:DEBUG='app';node app.js
```

Then, run the program to be debugged as usual.

npm script example:
```js
 "windowsDebug":
 "@powershell -Command $env:DEBUG='*';node app.js",
```

Namespace Colors

Every debug instance has a color generated for it based on its namespace name.
This helps when visually parsing the debug output to identify which debug instance
a debug line belongs to.

Node.js

In Node.js, colors are enabled when stderr is a TTY. You also _should_ install
the [`supports-color`](https://npmjs.org/supports-color) module alongside debug,
otherwise debug will only use a small handful of basic colors.

<img width="521" src="https://user-images.githubusercontent.com/71256/29092181-47f6a9e6-7c3a-11e7-9a14-1928d8a711cd.png">

Web Browser

Colors are also enabled on "Web Inspectors" that understand the `%c` formatting
option. These are WebKit web inspectors, Firefox ([since version
31](https://hacks.mozilla.org/2014/05/editable-box-model-multiple-selection-sublime-text-keys-much-more-firefox-developer-tools-episode-31/))
and the Firebug plugin for Firefox (any version).

<img width="524"
 src="https://user-images.githubusercontent.com/71256/29092033-b65f9f2e-7c39-11e7-8e32-f6f0d8e865c1.png">

Millisecond diff

When actively developing an application it can be useful to see when the time spent between one `debug()` call and the next. Suppose for example you invoke `debug()` before requesting a resource, and after as well, the "+NNNms" will show you how much time was spent between calls.

<img width="647" src="https://user-images.githubusercontent.com/71256/29091486-fa38524c-7c37-11e7-895f-

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When stdout is not a TTY, `Date#toISOString()` is used, making it more useful for logging the debug information as shown below:

<img width="647" src="https://user-images.githubusercontent.com/71256/29091956-6bd78372-7c39-11e7-8c55-c948396d6edd.png">

Conventions

If you're using this in one or more of your libraries, you _should_ use the name of your library so that developers may toggle debugging as desired without guessing names. If you have more than one debuggers you _should_ prefix them with your library name and use ":" to separate features. For example "bodyParser" from Connect would then be "connect:bodyParser". If you append a "*" to the end of your name, it will always be enabled regardless of the setting of the DEBUG environment variable. You can then use it for normal output as well as debug output.

Wildcards

The `*` character may be used as a wildcard. Suppose for example your library has debuggers named "connect:bodyParser", "connect:compress", "connect:session", instead of listing all three with `DEBUG=connect:bodyParser,connect:compress,connect:session`, you may simply do `DEBUG=connect:*`, or to run everything using this module simply use `DEBUG=*`.

You can also exclude specific debuggers by prefixing them with a "-" character. For example, `DEBUG=*,-connect:*` would include all debuggers except those starting with "connect:".

Environment Variables

When running through Node.js, you can set a few environment variables that will change the behavior of the debug logging:

Name	Purpose
`DEBUG`	Enables/disables specific debugging namespaces.
`DEBUG_HIDE_DATE`	Hide date from debug output (non-TTY).
`DEBUG_COLORS`	Whether or not to use colors in the debug output.
`DEBUG_DEPTH`	Object inspection depth.
`DEBUG_SHOW_HIDDEN`	Shows hidden properties on inspected objects.

__Note:__ The environment variables beginning with `DEBUG_` end up being converted into an Options object that gets used with `%o`/`%O` formatters. See the Node.js documentation for

[`util.inspect()`](https://nodejs.org/api/util.html#util_util_inspect_object_options)
for the complete list.

Formatters

Debug uses [printf-style](https://wikipedia.org/wiki/Printf_format_string) formatting.
Below are the officially supported formatters:

Formatter	Representation
`%O`	Pretty-print an Object on multiple lines.
`%o`	Pretty-print an Object all on a single line.
`%s`	String.
`%d`	Number (both integer and float).
`%j`	JSON. Replaced with the string '[Circular]' if the argument contains circular references.
`%%`	Single percent sign ('%'). This does not consume an argument.

Custom formatters

You can add custom formatters by extending the `debug.formatters` object.
For example, if you wanted to add support for rendering a Buffer as hex with
`%h`, you could do something like:

```js
const createDebug = require('debug')
createDebug.formatters.h = (v) => {
 return v.toString('hex')
}

// elsewhere
const debug = createDebug('foo')
debug('this is hex: %h', new Buffer('hello world'))
//   foo this is hex: 68656c6c6f20776f726c6421 +0ms
```

Browser Support

You can build a browser-ready script using [browserify](https://github.com/substack/node-browserify),
or
 just use the [browserify-as-a-service](https://wzrd.in/) [build](https://wzrd.in/standalone/debug@latest),
if you don't want to build it yourself.

Debug's enable state is currently persisted by `localStorage`.
Consider the situation shown below where you have `worker:a` and `worker:b`,
and wish to debug both. You can enable this using `localStorage.debug`:

```js
localStorage.debug = 'worker:*'
```

And then refresh the page.

```js
a = debug('worker:a');
b = debug('worker:b');

setInterval(function(){
 a('doing some work');
}, 1000);

setInterval(function(){
 b('doing some work');
}, 1200);
```

Output streams

By default `debug` will log to stderr, however this can be configured per-namespace by overriding the `log` method:

Example [_stdout.js_](./examples/node/stdout.js):

```js
var debug = require('debug');
var error = debug('app:error');

// by default stderr is used
error('goes to stderr!');

var log = debug('app:log');
// set this namespace to log via console.log
log.log
 = console.log.bind(console); // don't forget to bind to console!
log('goes to stdout');
error('still goes to stderr!');

// set all output to go via console.info
// overrides all per-namespace log settings
debug.log = console.info.bind(console);
error('now goes to stdout via console.info');
log('still goes to stdout, but via console.info now');
```

Extend
You can simply extend debugger
```js
const log = require('debug')('auth');

//creates new debug instance with extended namespace
const logSign = log.extend('sign');
const logLogin = log.extend('login');

log('hello'); // auth hello
logSign('hello'); //auth:sign hello
logLogin('hello'); //auth:login hello
```

Set dynamically

You can also enable debug dynamically by calling the `enable()` method :

```js
let debug = require('debug');

console.log(1, debug.enabled('test'));

debug.enable('test');
console.log(2, debug.enabled('test'));

debug.disable();
console.log(3, debug.enabled('test'));

```

print :
```
1
 false
2 true
3 false
```

Usage :
`enable(namespaces)`
`namespaces` can include modes separated by a colon and wildcards.

Note that calling `enable()` completely overrides previously set DEBUG variable :

```
$ DEBUG=foo node -e 'var dbg = require("debug"); dbg.enable("bar"); console.log(dbg.enabled("foo"))'
```

=> false
```

## Checking whether a debug target is enabled

After you've created a debug instance, you can determine whether or not it is enabled by checking the `enabled` property:

```javascript
const debug = require('debug')('http');

if (debug.enabled) {
 // do stuff...
}
```

You can also manually toggle this property to force the debug instance to be enabled or disabled.

Authors

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- Nathan Rajlich
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node-http-proxy

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```
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* https://github.com/josdejong/workerpool
*
* Offload tasks to a pool of workers on node.js and in the browser.
*
* @version 6.1.5
* @date    2021-06-17
*
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```
language: node_js
node_js:
  - "6"
  - "8"
cache:
  directories:
    - "node_modules"
```

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NPM License Checker
==========

[![Build Status](https://www.travis-ci.org/davglass/license-checker.svg?branch=master)](https://www.travis-ci.org/davglass/license-checker)

*As of v17.0.0 the `failOn` and `onlyAllow` arguments take semicolons as delimeters instead of commas. Some license names contain
commas and it messed with the parsing*

Ever needed to see all the license info for a module and its dependencies?

It's this easy:

```shell
npm install -g license-checker

mkdir foo
cd foo
npm install yui-lint
license-checker
```

You should see something like this:

```
cli@0.4.3
  repository: http://github.com/chriso/cli
  licenses: MIT
glob@3.1.14
```

```
  repository: https://github.com/isaacs/node-glob
  licenses: UNKNOWN
graceful-fs@1.1.14
  repository: https://github.com/isaacs/node-graceful-fs
  licenses: UNKNOWN
inherits@1.0.0
  repository: https://github.com/isaacs/inherits
  licenses: UNKNOWN
jshint@0.9.1
  licenses: MIT
lru-cache@1.0.6
  repository: https://github.com/isaacs/node-lru-cache
   licenses: MIT
lru-cache@2.0.4
  repository: https://github.com/isaacs/node-lru-cache
  licenses: MIT
minimatch@0.0.5
  repository: https://github.com/isaacs/minimatch
  licenses: MIT
minimatch@0.2.9
  repository: https://github.com/isaacs/minimatch
  licenses: MIT
sigmund@1.0.0
  repository: https://github.com/isaacs/sigmund
  licenses: UNKNOWN
yui-lint@0.1.1
   licenses: BSD
     repository: http://github.com/yui/yui-lint
```

An asterisk next to a license name means that it was deduced from
an other file than package.json (README, LICENSE, COPYING, ...)
You could see something like this:

```
debug@2.0.0
   repository: https://github.com/visionmedia/debug
   licenses: MIT*
```

Options
---

* `--production` only show production dependencies.
* `--development` only show development dependencies.
* `--start [path of the initial json to look for]`
* `--unknown` report guessed licenses as unknown licenses.
* `--onlyunknown` only list

packages with unknown or guessed licenses.
* `--json` output in json format.
* `--csv` output in csv format.
* `--csvComponentPrefix` prefix column for component in csv format.
* `--out [filepath]` write the data to a specific file.
* `--customPath` to add a custom Format file in JSON
* `--exclude [list]` exclude modules which licenses are in the comma-separated list from the output
* `--relativeLicensePath` output the location of the license files as relative paths
* `--summary` output a summary of the license usage',
* `--failOn [list]` fail (exit with code 1) on the first occurrence of the licenses of the semicolon-separated list
* `--onlyAllow [list]` fail (exit with code 1) on the first occurrence of the licenses not in the semicolon-seperated list
* `--packages [list]` restrict output to the packages (package@version) in the semicolon-seperated list
* `--excludePackages [list]` restrict output to the packages (package@version) not in the semicolon-seperated list
* `--excludePrivatePackages`
 restrict output to not include any package marked as private
* `--direct look for direct dependencies only`

Exclusions

A list of licenses is the simplest way to describe what you want to exclude.

You can use valid [SPDX identifiers](https://spdx.org/licenses/).
You can use valid SPDX expressions like `MIT OR X11`.
You can use non-valid SPDX identifiers, like `Public Domain`, since `npm` does
support some license strings that are not SPDX identifiers.

Examples

```
license-checker --json > /path/to/licenses.json
license-checker --csv --out /path/to/licenses.csv
license-checker --unknown
license-checker --customPath customFormatExample.json
license-checker --exclude 'MIT, MIT OR X11, BSD, ISC'
license-checker --packages 'react@16.3.0;react-dom@16.3.0;lodash@4.3.1'
license-checker --excludePackages 'internal-1;internal-2'
license-checker --onlyunknown
```

Custom format

The `--customPath` option can be used with CSV to specify the columns.
 Note that
the first column, `module_name`, will always be used.

When used with JSON format, it will add the specified items to the usual ones.

The available items are the following:
- name
- version
- description
- repository
- publisher
- email
- url
- licenses
- licenseFile
- licenseText
- licenseModified

You can also give default values for each item.
See an example in customFormatExample.json.

Requiring

```js
var checker = require('license-checker');

checker.init({
  start: '/path/to/start/looking'
}, function(err, packages) {
  if (err) {
    //Handle error
  } else {
    //The sorted package data
    //as an Object
  }
});
```

Debugging
---

license-checker uses [debug](https://www.npmjs.com/package/debug) for internal logging. Theres two internal markers:

* `license-checker:error` for errors
* `license-checker:log` for non-errors

Set the `DEBUG` environment variable to one of these to see debug output:

```shell
```

```
$
 export DEBUG=license-checker*; license-checker
scanning ./yui-lint
cli@0.4.3
  repository: http://github.com/chriso/cli
  licenses: MIT
# ...
```

How Licenses are Found

We walk through the `node_modules` directory with the [`read-installed`](https://www.npmjs.org/package/read-installed) module. Once we gathered a list of modules we walk through them and look at all of their `package.json`'s, We try to identify the license with the [`spdx`](https://www.npmjs.com/package/spdx) module to see if it has a valid SPDX license attached. If that fails, we then look into the module for the following files: `LICENSE`, `LICENCE`, `COPYING`, & `README`.

If one of the those files are found (in that order) we will attempt to parse the license data from it with a list of known license texts. This will be shown with the `*` next to the name of the license to show that we "guessed" at it.
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spdx-license-ids

[![npm version](https://img.shields.io/npm/v/spdx-license-ids.svg)](https://www.npmjs.com/package/spdx-license-ids)
[![Github Actions](https://action-badges.now.sh/shinnn/spdx-license-ids)](https://wdp9fww0r9.execute-api.us-west-2.amazonaws.com/production/results/shinnn/spdx-license-ids)

A list of [SPDX license](https://spdx.org/licenses/) identifiers

Installation

[Download JSON directly](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/index.json), or [use](https://docs.npmjs.com/cli/install) [npm](https://docs.npmjs.com/about-npm/):

```
npm install spdx-license-ids
```

[Node.js](https://nodejs.org/) API

require('spdx-license-ids')

Type: `string[]`

All license IDs except for the currently deprecated ones.

```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'ADSL', 'AFL-1.1', 'AFL-1.2', 'AFL-2.0', 'AFL-2.1', 'AFL-3.0', 'AGPL-1.0-only', ...]

ids.includes('BSD-3-Clause'); //=> true
ids.includes('CC-BY-1.0'); //=>
 true

ids.includes('GPL-3.0'); //=> false
```

require('spdx-license-ids/deprecated')

Type: `string[]`

Deprecated license IDs.

```javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
//=> ['AGPL-1.0', 'AGPL-3.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', 'GPL-2.0', ...]

deprecatedIds.includes('BSD-3-Clause'); //=> false
deprecatedIds.includes('CC-BY-1.0'); //=> false

deprecatedIds.includes('GPL-3.0'); //=> true
```

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reporting:
  reports:
    - lcov
    - text
    - text-summary
check:
  global:
    statements: 95
    lines: 95
    branches: 90
    functions: 100
```

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  "env": {
    "mocha": true
  }
}
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Repository: https://github.com/Rich-Harris/sourcemap-codec

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Repository: micromatch/to-regex-range

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Repository: https://github.com/yargs/yargs-parser.git

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public domain
validate-npm-package-license
==========

Give me a string and I'll tell you if it's a valid npm package license string.

```javascript
var valid = require('validate-npm-package-license');
```

SPDX license identifiers are valid license strings:

```javascript

var assert = require('assert');
var validSPDXExpression = {
 validForNewPackages: true,
 validForOldPackages: true,
 spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
```
The function will return a warning and suggestion for nearly-correct license identifiers:

```javascript
assert.deepEqual(
 valid('Apache 2.0'),
 {
   validForOldPackages: false,
   validForNewPackages: false,
   warnings: [
```

```
    'license should be ' +
    'a valid SPDX license expression (without "LicenseRef"), ' +
    '"UNLICENSED", or ' +
     '"SEE LICENSE IN <filename>"',
    'license is similar to the valid expression "Apache-2.0"'
  ]
 }
);
```

SPDX expressions are valid, too ...

```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
 valid('(GPL-3.0-only OR BSD-2-Clause)'),
 validSPDXExpression
);
```

... except if they contain `LicenseRef`:

```javascript
var warningAboutLicenseRef = {
 validForOldPackages: false,
 validForNewPackages: false,
 spdx: true,
 warnings: [
  'license should be ' +
  'a valid SPDX license expression (without "LicenseRef"), ' +
  '"UNLICENSED", or ' +
  '"SEE LICENSE IN <filename>"',
 ]
};

assert.deepEqual(
 valid('LicenseRef-Made-Up'),
 warningAboutLicenseRef
);

assert.deepEqual(
 valid('(MIT OR LicenseRef-Made-Up)'),
 warningAboutLicenseRef
);
```

If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```javascript
assert.deepEqual(
 valid('SEE
 LICENSE IN LICENSE.txt'),
 {
   validForNewPackages: true,
   validForOldPackages: true,
   inFile: 'LICENSE.txt'
 }
);

assert.deepEqual(
 valid('SEE LICENSE IN license.md'),
 {
   validForNewPackages: true,
   validForOldPackages: true,
   inFile: 'license.md'
 }
);
```

If there aren't any licensing terms, use `UNLICENSED`:

```javascript
var unlicensed = {
 validForNewPackages: true,
 validForOldPackages: true,
 unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);
```

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```
{
 "name": "",
 "version": "",
 "description": "",
 "licenses": "",
 "copyright": "",
 "licenseFile": "none",
 "licenseText": "none",
 "licenseModified": "no"
}
```


Change Log

v25.0.1 (2019/01/10 19:29 +00:00)
- [f1c835b](https://github.com/davglass/license-checker/commit/f1c835b991b65dc928eafe64c29b73df9e703169) Updated readme with new args (@davglass)
- [ada667f](https://github.com/davglass/license-checker/commit/ada667f28e8ef4e96b5b6059fe05541d05ca936c) changelog (@davglass)
- [7813f0d](https://github.com/davglass/license-checker/commit/7813f0db3b51f7cc4cd37d8e7b4670f9005fed06) contrib (@davglass)

v25.0.0 (2019/01/10 15:09 +00:00)
- [cdb77d9](https://github.com/davglass/license-checker/commit/cdb77d9a2b36cd87503f32265a0ee388b25c24ae) 25.0.0 (@davglass)
- [b897345](https://github.com/davglass/license-checker/commit/b89734549bc05fb5e143083fdf6d3959d87eb2b8) [Fixes #136] Document --start option and add the depth option for looking into root dependencies or infinitely (@davglass)
- [#185](https://github.com/davglass/license-checker/pull/185) Merge pull request #185 from theboolean/fix/exclude-packages-and-private (@theboolean)
- [#184](https://github.com/davglass/license-checker/pull/184)
 Merge pull request #184 from theboolean/docs/fix-typo (@theboolean)
- [987a60f](https://github.com/davglass/license-checker/commit/987a60fbb58052cf36d5a80e6252e81136bb1dd8) changes 24.1.0 (@davglass)

v24.1.0 (2018/12/14 20:54 +00:00)
- [18ab8a1](https://github.com/davglass/license-checker/commit/18ab8a1eb478d1354429ca4318c1df3de3e4cbb1) 24.1.0 (@davglass)

- [1dca0f6](https://github.com/davglass/license-checker/commit/1dca0f616aebdef2d398c130a2a4f86c2b4e88c8) Changelog (@davglass)
- [#188](https://github.com/davglass/license-checker/pull/188) Fix for #153: remove deprecated package 'spdx' (#188) (@rogierschouten)
- [d1d34b1](https://github.com/davglass/license-checker/commit/d1d34b1a8894987807419c093c3ec10b4f06db3d) Fix typo in package.json description (@theboolean)
- [f5c9008](https://github.com/davglass/license-checker/commit/f5c9008a6d20b503e21c0d8130e52be526a5bfe8) Fix: Allow excluding packages and private packages together
 (@theboolean)
- [98c4dc6](https://github.com/davglass/license-checker/commit/98c4dc670fdebb6e58b62b38ebcb12302e5b1db5) changes (@davglass)

v24.0.1 (2018/10/11 16:40 +00:00)
- [d72eae8](https://github.com/davglass/license-checker/commit/d72eae8bcb80d8582e6d12c5e2664e9c19135709) 24.0.1 (@davglass)
- [9433e64](https://github.com/davglass/license-checker/commit/9433e640ea9f629aad5f00c224a9f61026b8116d) [Fixes #181] - Removed extra line break with --cvs (@davglass)
- [65baa28](https://github.com/davglass/license-checker/commit/65baa28f532f87ebb75a32578c7ac5837806d12f) contrib and changes (@davglass)

v24.0.0 (2018/10/09 21:12 +00:00)
- [84d64a2](https://github.com/davglass/license-checker/commit/84d64a28fa971c3bfb20b9e9de27cafbe6e8481b) 24.0.0 (@davglass)
- [#180](https://github.com/davglass/license-checker/pull/180) Feature: Exclude Private Packages (#180) (Jonny Reeves)
- [#179](https://github.com/davglass/license-checker/pull/179) Merge pull request #179 from jonny-improbable/fix/fix-strict-checks
 (@jonny-improbable)
- [179077d](https://github.com/davglass/license-checker/commit/179077d079acbcd0183aa6691cfe5c2ec0f93f07) Fixes 176, Packages are not ignored when using --onlyAllow and --excludePackages. (@jonny-improbable)
- [890ca17](https://github.com/davglass/license-checker/commit/890ca17d179bc43a6cb7cff962d69d1521dc9ac2) changelog (@davglass)

v23.0.0 (2018/10/09 14:37 +00:00)
- [f243287](https://github.com/davglass/license-checker/commit/f243287fbce6da33838a226ddfe8c412535390d4) 23.0.0 (@davglass)
- [#178](https://github.com/davglass/license-checker/pull/178) Merge pull request #178 from jonny-improbable/fix/filtering (@jonny-improbable)
- [#175](https://github.com/davglass/license-checker/pull/175) Merge pull request #175 from jonny-improbable/patch-1 (@jonny-improbable)
- [f2c6611](https://github.com/davglass/license-checker/commit/f2c6611d6c68e50b2b6f56260026837e7167f44a) Fixes #177, --packages and --excludePackages filtering (@jonny-improbable)
- [0a598df](https://github.com/davglass/license-checker/commit/0a598df55c3ec33803ef33be07cc47a910eee961) Improve --onlyAllow violation Error
- [ee723af](https://github.com/davglass/license-checker/commit/ee723af79889a4d98ed067494a58f6aa41a44ac7) changes (@davglass)

v22.0.0 (2018/10/08 19:00 +00:00)

- [bd398c3](https://github.com/davglass/license-checker/commit/bd398c3bce0279699c9aad1dc4b592f398a75766) 22.0.0 (@davglass)
- [#172](https://github.com/davglass/license-checker/pull/172) Merge pull request #172 from fzaninotto/exclude-packages (@fzaninotto)
- [014fd96](https://github.com/davglass/license-checker/commit/014fd9613fe5460e0b7a0fc118a659a337e25e2c) added changes (@davglass)

v21.0.0 (2018/10/06 13:24 +00:00)
- [d75fe43](https://github.com/davglass/license-checker/commit/d75fe43d61a9d5b6696d71a663e25a53fd3d44f7) 21.0.0 (@davglass)
- [05cb221](https://github.com/davglass/license-checker/commit/05cb221359de4ffe1039f586cd9e8fb7cb9d6398) [Fixes #174] - Moved private and unknown
 detection above filtering (@davglass)
- [b1d5700](https://github.com/davglass/license-checker/commit/b1d570088236dfb90253bdac27763523b2e74ffb) Add an excludePackages option (@fzaninotto)
- [231bd3f](https://github.com/davglass/license-checker/commit/231bd3f2412507be1d702ad100b23c1b1fe93602) updated readme (@davglass)
- [6c61a7b](https://github.com/davglass/license-checker/commit/6c61a7bd102466c702065d42706392c11717cc1d) changelog (@davglass)

v20.2.0 (2018/07/30 13:49 +00:00)
- [28dc521](https://github.com/davglass/license-checker/commit/28dc5218dec3340778bd801593275ad1b222e53f) 20.2.0 (@davglass)
- [#169](https://github.com/davglass/license-checker/pull/169) Merge pull request #169 from codepunkt/restrict_packages (@codepunkt)
- [5e4b274](https://github.com/davglass/license-checker/commit/5e4b274e955485fb2aba37e65fec913b8042f38d) refactor: restore previous code style (@codepunkt)
- [ed25d68](https://github.com/davglass/license-checker/commit/ed25d6829602793e13233d3da2d97b92ee2044c6)
 test: add test for --packages flag (@codepunkt)
- [0f53922](https://github.com/davglass/license-checker/commit/0f53922088be0b0dfd4f8db7ea884b53d0137e45) feat: allow restricting output to specified packages (@codepunkt)
- [5f63f87](https://github.com/davglass/license-checker/commit/5f63f8766a17e589b57db99bda4eb54d91b85b77) changes and contrib (@davglass)

v20.1.0 (2018/06/07 14:33 +00:00)
- [970882a](https://github.com/davglass/license-checker/commit/970882a09b345c7f32496431e5ca4c069ad7e320) 20.1.0 (@davglass)
- [#165](https://github.com/davglass/license-checker/pull/165) Merge pull request #165 from santiagocanti/fix-exclude-not-adding-custom-licenses (@santiagocanti)
- [89e48a9](https://github.com/davglass/license-checker/commit/89e48a9d3d0c9f2e48bfcee0dc3563ce4b652e22) Fix exclude not including custom licenses (@santiagocanti)

v20.0.0 (2018/05/17 14:14 +00:00)
- [0e89310](https://github.com/davglass/license-checker/commit/0e8931021df777cb401d9a332fa2a8c9a2c49eb2) 20.0.0 (@davglass)
-
 [c36a5c9](https://github.com/davglass/license-checker/commit/c36a5c99bb4f68816e4e19cad5090ba3c7ba67a4) changes (@davglass)

- [ccb66f3](https://github.com/davglass/license-checker/commit/ccb66f3410a4589e6f2b7cf1c3aefb1446bab460) contributors (@davglass)
- [#156](https://github.com/davglass/license-checker/pull/156) Merge pull request #156 from zodiac403/z4/copyright (@zodiac403)
- [56414b4](https://github.com/davglass/license-checker/commit/56414b4a67cbb25bcc8eb8cc05b0ac712b677dc2) Add unit test for Copyright statement. (@zodiac403)
- [3eafe24](https://github.com/davglass/license-checker/commit/3eafe249ad662af727a9b7472f7ad6c1b9a73ade) fixing test coverage with switch to nyc from istanbul (@davglass)

v19.0.0 (2018/04/30 14:51 +00:00)
- [7e83a06](https://github.com/davglass/license-checker/commit/7e83a069d23c104c3cd8257eb64666704ecca465) 19.0.0 (@davglass)
- [e5eb49b](https://github.com/davglass/license-checker/commit/e5eb49bcb5546dbc681f736f159d63908cd39ce9) upgrading
 packages (@davglass)
- [442aee6](https://github.com/davglass/license-checker/commit/442aee69b5d44e47bfd2e441c4e1f86d387e49c6) Changlog (@davglass)

v18.1.0 (2018/04/30 14:16 +00:00)
- [82ec91b](https://github.com/davglass/license-checker/commit/82ec91bb02e6bf998164b62b4aa827198156ad4c) 18.1.0 (@davglass)
- [4b546d3](https://github.com/davglass/license-checker/commit/4b546d38ce91bcbe8d21e7bc53e44635b0447fc2) contrib (@davglass)
- [#155](https://github.com/davglass/license-checker/pull/155) Merge pull request #155 from ktmouk/supress-path-property (@ktmouk)
- [#160](https://github.com/davglass/license-checker/pull/160) Merge pull request #160 from helio-frota/pr (@helio-frota)
- [8b068f2](https://github.com/davglass/license-checker/commit/8b068f25fe910d087c06e29312bc250b49aba4c7) fix: Updating debug dependency to fix a security warning (@helio-frota)
- [040dd94](https://github.com/davglass/license-checker/commit/040dd9468261966c5c40e4a418aa9ba8f716c3a2) Copyright statement: Handle multi-line
 stagements (@zodiac403)
- [0480750](https://github.com/davglass/license-checker/commit/04807506d61aa1d704e8b51da3a289baa025b510) Fix layout issue. (@zodiac403)
- [9cb45f2](https://github.com/davglass/license-checker/commit/9cb45f2b9ce2c1142c0d1f556f01f7d754737a4c) Link with customFormat (@zodiac403)
- [f83aaae](https://github.com/davglass/license-checker/commit/f83aaae85ad4cc2e9880802951dfacbc86dc2d7f) Merge branch 'z4/copyright' of https://github.com/zodiac403/license-checker into z4/copyright (@zodiac403)
- [7536af9](https://github.com/davglass/license-checker/commit/7536af935d91078657f0e169ed82383f099607f6) Trim output. (@zodiac403)
- [8716845](https://github.com/davglass/license-checker/commit/87168456cae35263882bd2b6d6d0081f228b6b66) Suppress path property (@ktmouk)
- [be57ee8](https://github.com/davglass/license-checker/commit/be57ee8f76c8aada0d227913b7d0e12aca0dc640) Add example for (c) statement. (@zodiac403)
- [fe17f7c](https://github.com/davglass/license-checker/commit/fe17f7c76dbdae0cbf689a0cd260a746698f3281)
 Parse (c) statements from LICENSE file. (@zodiac403)
- [#149](https://github.com/davglass/license-checker/pull/149) Merge pull request #149 from honzajavorek/patch-1 (@honzajavorek)

- [955bbf6](https://github.com/davglass/license-checker/commit/955bbf6070ffcd9f0d01ef37bb84ffbac65e007b) remove the old status badge (@honzajavorek)

v18.0.0 (2018/03/20 12:30 +00:00)
- [315de0b](https://github.com/davglass/license-checker/commit/315de0b1a881cf8737c3c0131c217c4820df13a8) 18.0.0 (@davglass)
- [76655d5](https://github.com/davglass/license-checker/commit/76655d59bad95c2e52724aaa3a0cf036f0e60bd6) changelog (@davglass)
- [c8aa823](https://github.com/davglass/license-checker/commit/c8aa823342b7a250d510582c8a03dd76af50bd9c) added contributors (@davglass)
- [#147](https://github.com/davglass/license-checker/pull/147) Merge pull request #147 from honzajavorek/honzajavorek/license-files (@honzajavorek)
- [#148](https://github.com/davglass/license-checker/pull/148)
 Merge pull request #148 from honzajavorek/honzajavorek/use-stderr (@honzajavorek)
- [#146](https://github.com/davglass/license-checker/pull/146) Merge pull request #146 from honzajavorek/honzajavorek/fix-e2e-test (@honzajavorek)
- [#145](https://github.com/davglass/license-checker/pull/145) Merge pull request #145 from honzajavorek/honzajavorek/drop-4-add-8 (@honzajavorek)
- [0105f7d](https://github.com/davglass/license-checker/commit/0105f7dcf01a67b8f7c34371d95a1d76b191d5ed) use stderr where applicable (@honzajavorek)
- [0ff8d91](https://github.com/davglass/license-checker/commit/0ff8d917c659446256074c0940ae43dd84930233) add support for LICENSE-MIT and similar (@honzajavorek)
- [f02589e](https://github.com/davglass/license-checker/commit/f02589e62c0ba8221081b8b1799d561c3ff20500) isolate and test the license file detection (@honzajavorek)
- [f0da0fe](https://github.com/davglass/license-checker/commit/f0da0fe2ab28f1658e4ed504bb034fb1536b9ff8) add warning about commas and test
 it (@honzajavorek)
- [3db0b6f](https://github.com/davglass/license-checker/commit/3db0b6f05a68ccfff4181503ca87edce4ef10cd7) fix e2e test (transition from comma delimiter to semicolon) (@honzajavorek)
- [cec3b73](https://github.com/davglass/license-checker/commit/cec3b73505ac40a2dca211e78427624d009585dc) let Travis CI to cache node_modules (@honzajavorek)
- [8cea3dc](https://github.com/davglass/license-checker/commit/8cea3dccf1d185dc3ae3f37f44a82d7e123a1988) add Travis CI badge to the README (@honzajavorek)
- [8f59c3b](https://github.com/davglass/license-checker/commit/8f59c3b494f69b1d51535bcff80c0e006d0ef6bb) drop support for node 4, add support for node 8 (@honzajavorek)

v17.0.0 (2018/03/19 13:26 +00:00)
- [cd5fdd8](https://github.com/davglass/license-checker/commit/cd5fdd8e94267d7d8f29e86dd9cbf8b694c037f1) 17.0.0 (@davglass)
- [13c11ee](https://github.com/davglass/license-checker/commit/13c11eeea1b1a3e012de62536100fce91c355c8b) updated readme and help text (@davglass)
- [#144](https://github.com/davglass/license-checker/pull/144)
 Merge pull request #144 from creising/parser-fixes (@creising)
- [d2ab8df](https://github.com/davglass/license-checker/commit/d2ab8df30bc3e6b38b321a1e12a70cf477a69eb0) added support for lic with commas and spaces (@creising)
- [2075208](https://github.com/davglass/license-checker/commit/20752083c6029823fb389a30a1ed4d7d90fa9297) contrib and changelog (@davglass)
- [6c5274c](https://github.com/davglass/license-checker/commit/6c5274c6064d318844cf36185dea395e0893ff08)

[fixes #132] - Fixed issue with asFiles and path issues (@davglass)
- [a46c448](https://github.com/davglass/license-checker/commit/a46c4483f872c3db9498a65b7ae3dc6d8164de0a) 16.0.0 (@davglass)
- [38d63e2](https://github.com/davglass/license-checker/commit/38d63e2c2c3fd6c11012fb69b1470b2ba06d5554) [fixes #128] - Added --onlyAllow option (@davglass)

v16.0.0 (2018/01/18 15:02 +00:00)
- [#131](https://github.com/davglass/license-checker/pull/131) Merge pull request #131
 from mischah/patch-1 (@mischah)
- [e341d17](https://github.com/davglass/license-checker/commit/e341d1701092be87309ec4b51fa6eb23f7e9a589) Fix typo in Readme (@mischah)
- [cc38a20](https://github.com/davglass/license-checker/commit/cc38a2047bf41b6fe25266114a13a9bf54133e04) updated license text (@davglass)

v15.0.0 (2017/10/19 14:24 +00:00)
- [a9bd001](https://github.com/davglass/license-checker/commit/a9bd001b649bfa186bae5598bb8c67ff56383599) 15.0.0 (@davglass)
- [db621fa](https://github.com/davglass/license-checker/commit/db621fa6beeff870699c33be484bf49816ab7866) changelog (@davglass)
- [#124](https://github.com/davglass/license-checker/pull/124) Merge pull request #124 from neverendingqs/app/stricterguesses (@neverendingqs)
- [#126](https://github.com/davglass/license-checker/pull/126) app - output now includes path to dependency. (#126) (@neverendingqs)
- [9f68b29](https://github.com/davglass/license-checker/commit/9f68b29bbfa73278cdab92e221be6ccbab191932) app - strengthening license
 guessing; resolves #123. (@neverendingqs)
- [3061c87](https://github.com/davglass/license-checker/commit/3061c87363f3416d86ca6c2ba7b2bfa77def0e73) changes (@davglass)

v14.0.0 (2017/08/28 13:22 +00:00)
- [b2a4403](https://github.com/davglass/license-checker/commit/b2a440309c1537c52e5c5a2106f11e72d5b784ec) 14.0.0 (@davglass)
- [#122](https://github.com/davglass/license-checker/pull/122) Added --failOn [list] mode (#122) (@tobilg)

v13.1.0 (2017/08/25 15:00 +00:00)
- [ee25265](https://github.com/davglass/license-checker/commit/ee25265f92fe0d3b603da6b8c88d175e0d1f2fa5) 13.1.0 (@davglass)
- [5bb9a17](https://github.com/davglass/license-checker/commit/5bb9a17f89d7e180b3a9d929ebc073135262bd2f) changes (@davglass)
- [b1e0392](https://github.com/davglass/license-checker/commit/b1e0392afa4b511b7c532125cd3165a828d3d4e3) added contrib (@davglass)
- [#121](https://github.com/davglass/license-checker/pull/121) Add `--summary` mode to show a summary with counts of the used licenses (#121)
 (@tobilg)
- [#119](https://github.com/davglass/license-checker/pull/119) Fix minor spelling mistakes (#119) (@tobiasbueschel)
- [#118](https://github.com/davglass/license-checker/pull/118) Minor readme text improvements (#118) (@peteruithoven)

- [d2bc5ea](https://github.com/davglass/license-checker/commit/d2bc5ea91ab50becea91d5f0f050955fe9a6ac59) added license parsing info to README (@davglass)
- [3e9d320](https://github.com/davglass/license-checker/commit/3e9d320acb2e9f14297d6a4355680f34a9b0609d) changes (@davglass)

v13.0.3 (2017/08/04 17:15 +00:00)
- [2caf76b](https://github.com/davglass/license-checker/commit/2caf76be7f2849e153ee28410f3b7a41df3283b5) 13.0.3 (@davglass)
- [fadddc8](https://github.com/davglass/license-checker/commit/fadddc895ef9c6f182e2283c5605a8c1d8fa8a25) [fixes #117] fixed minor URL parsing (@davglass)
- [e58a868](https://github.com/davglass/license-checker/commit/e58a868268aefd97d735b364bd87d03140d76482) changes (@davglass)

v13.0.2 (2017/07/18 16:24 +00:00)
- [2c712b7](https://github.com/davglass/license-checker/commit/2c712b7c7e6efe916d60f3ef3125f7f019c46d59) 13.0.2 (@davglass)
- [ef812c1](https://github.com/davglass/license-checker/commit/ef812c1168901d08b97dbd450a64ca03bb7062ad) [fixes #114] - Custom URL/File parsing skipped if file found on disk (@davglass)

v13.0.1 (2017/07/17 12:48 +00:00)
- [a1bf8f1](https://github.com/davglass/license-checker/commit/a1bf8f152b100d81b44757b3b7e141df6a971c44) 13.0.1 (@davglass)
- [e6d0c89](https://github.com/davglass/license-checker/commit/e6d0c893b8a86e12493f7a5c22fd74ef26267994) contrib & changes (@davglass)
- [#113](https://github.com/davglass/license-checker/pull/113) Use LICENSE file in preference to README (#113) (@ibeucaly)
- [6b7f79f](https://github.com/davglass/license-checker/commit/6b7f79f654e21903ea37e4391fba3601ece32e90) changes (@davglass)

v13.0.0 (2017/07/14 12:49 +00:00)
- [dd9e880](https://github.com/davglass/license-checker/commit/dd9e880abd234d683d8c1e57e7a5f889c9156de4) 13.0.0 (@davglass)
- [051b20b](https://github.com/davglass/license-checker/commit/051b20b0c4b35f223f724705a0025dafc809373f) cleaned up some tests (@davglass)
- [#110](https://github.com/davglass/license-checker/pull/110) FEATURE: Recognise some custom licenses by file or url (#110) (@dancrumb)
- [#111](https://github.com/davglass/license-checker/pull/111) Resolves #60 (#111) Adding support for GPL and LGPL (@dancrumb)
- [#109](https://github.com/davglass/license-checker/pull/109) FEATURE: Improve license exclusion (#109) (@dancrumb)
- [#108](https://github.com/davglass/license-checker/pull/108) FEATURE: Detect private modules and report them as UNLICENSED (#108) (@dancrumb)

v12.1.0 (2017/07/12 16:48 +00:00)
- [dc944e5](https://github.com/davglass/license-checker/commit/dc944e54d55d77b0ef6b6321d9abee847662ccb8) 12.1.0 (@davglass)
- [d415c58](https://github.com/davglass/license-checker/commit/d415c580b04bc5eefa592dc9f9a0a31b244c1bd3)

updated contrib and changes (@davglass)
- [#107](https://github.com/davglass/license-checker/pull/107)
 Merge pull request #107 from dancrumb/feature/support-for-public-domain-licenses (@dancrumb)
- [0c55770](https://github.com/davglass/license-checker/commit/0c55770294167161c48b79cc82a15a6545154a87)
FEATURE: Add support for Public Domain licenses (@dancrumb)

v12.0.0 (2017/07/05 13:33 +00:00)
- [8b74fa1](https://github.com/davglass/license-checker/commit/8b74fa1fe3b5edb0d217aa3ce86f4662eb024621)
12.0.0 (@davglass)
- [4f3367c](https://github.com/davglass/license-checker/commit/4f3367c2bf2e9713a6cccd11341f7f4fa70ed400)
changes & contrib (@davglass)
- [#106](https://github.com/davglass/license-checker/pull/106) Merge pull request #106 from helio-frota/licensefile-readme (@helio-frota)
- [a229507](https://github.com/davglass/license-checker/commit/a2295073d0178dca1b88e85ea8f52c21d35e52fc)
src: the README is added as licenseFile (@helio-frota)
- [b59d90d](https://github.com/davglass/license-checker/commit/b59d90d8705f6f728c817b89936f95097d26857b)
 changes & contrib (@davglass)

v11.0.0 (2017/05/30 13:33 +00:00)
- [258df10](https://github.com/davglass/license-checker/commit/258df102da484943088da8e0b6160b80c0e703cd)
11.0.0 (@davglass)
- [#102](https://github.com/davglass/license-checker/pull/102) Merge pull request #102 from xswordsx/multiple-licenses (@xswordsx)
- [c5c8b0f](https://github.com/davglass/license-checker/commit/c5c8b0f408f2a26259a7b1109f7cc135ed5bf9c4)
Check for SPDX-compatible licenses (@xswordsx)

v10.1.0 (2017/05/25 16:16 +00:00)
- [b52a16d](https://github.com/davglass/license-checker/commit/b52a16d0ba414e7287f82325dd65619cd76afdd1)
10.1.0 (@davglass)
- [f911a99](https://github.com/davglass/license-checker/commit/f911a9919033254945ecbbf69362cb171436688e)
contrib & changes (@davglass)
- [#100](https://github.com/davglass/license-checker/pull/100) Suppress JSON properties with custom format (#100) (@tbbstny)
- [ed5b3ab](https://github.com/davglass/license-checker/commit/ed5b3ab50825f0be032958f8233dd3000ee98e85)
 changelog (@davglass)

v10.0.0 (2017/05/17 13:51 +00:00)
- [b2c2283](https://github.com/davglass/license-checker/commit/b2c2283cf5a937e64a07ab200ec2379e481903b6)
10.0.0 (@davglass)
- [a0406ac](https://github.com/davglass/license-checker/commit/a0406ac2c7a0b1037ca31b47e36d316b9c088938)
[fixes #96] - do not replace newline, etc in licenses for exporting to json/markdown (@davglass)
- [98a03fa](https://github.com/davglass/license-checker/commit/98a03fa700ef6d038cc2f9104ea5cf17c82a10ad)
[fixes #97] - Added a newline to the output file (@davglass)
- [#98](https://github.com/davglass/license-checker/pull/98) Merge pull request #98 from davglass/eslint (@davglass)
- [10fe441](https://github.com/davglass/license-checker/commit/10fe441a2e70e549e57f7da99d2287fc55355500)
moved to eslint (@davglass)
- [f82b535](https://github.com/davglass/license-checker/commit/f82b535d3b7f152fa00bb4680e94af18d1c1421d)

changelog (@davglass)

v9.0.3 (2017/04/10 13:42 +00:00)
- [a0fd60f](https://github.com/davglass/license-checker/commit/a0fd60f972b7c84a32117b3dfc1f95bfa2282f27) 9.0.3 (@davglass)
- [#95](https://github.com/davglass/license-checker/pull/95) Merge pull request #95 from abtris/prefix-component (@abtris)
- [3b80272](https://github.com/davglass/license-checker/commit/3b80272a217687c2f0cd7a0c1e98775064d820ff) test: add test for csvComponentPrefix (@abtris)
- [d593554](https://github.com/davglass/license-checker/commit/d593554c1a6b4f7e004e4a23fca88cb7294f8351) feat: add support for csvComponentPrefix (@abtris)
- [5b2eea1](https://github.com/davglass/license-checker/commit/5b2eea12d8c54068a01a2cf1fd9bdeca8c1f0fa2) added contrib (@davglass)

v9.0.2 (2017/04/05 14:55 +00:00)
- [f24833b](https://github.com/davglass/license-checker/commit/f24833bce846f608ec3d8c327d335da56c42b895) 9.0.2 (@davglass)
- [#94](https://github.com/davglass/license-checker/pull/94) Merge pull request #94 from timbru31/fix-comma-exclude (@timbru31)
- [2d08a77](https://github.com/davglass/license-checker/commit/2d08a77030362c7ab03ac12358dd524c0be47eee) contrib & changelog (@davglass)

v9.0.1 (2017/04/05 13:09 +00:00)
- [9f1a1f3](https://github.com/davglass/license-checker/commit/9f1a1f32194a9bb312858f624e303af1ad4f61ca) 9.0.1 (@davglass)
- [c99f612](https://github.com/davglass/license-checker/commit/c99f612fee22d9eb03db0ad41e7918fbaf6e8ed9) added test for licenseText (@davglass)
- [#93](https://github.com/davglass/license-checker/pull/93) Merge pull request #93 from abtris/licenseText-just-in-customFormat (@abtris)
- [8d7fb2f](https://github.com/davglass/license-checker/commit/8d7fb2f85fc585d8e75ab1459e0b0cef43993ba4) fix: allow escaped commas in exclude string (@timbru31)
- [da4d73c](https://github.com/davglass/license-checker/commit/da4d73c0feb22f50ddbce54364eef5b7bcc7f1a4) test: fix test, remove check from non custom format (@abtris)
- [dcd3b59](https://github.com/davglass/license-checker/commit/dcd3b59bb9457df354fa3095189235b6e030df1a) feat: add licenseText
 only for customFormat
- [4e02eca](https://github.com/davglass/license-checker/commit/4e02eca6e8bd332ff6d90e5039cacb50f0df1bf3) updated contribs and changelog (@davglass)

v9.0.0 (2017/04/04 12:26 +00:00)
- [267c80e](https://github.com/davglass/license-checker/commit/267c80efac89eef70c71a12b8f12b3dc8e6d58dd) 9.0.0 (@davglass)
- [057af47](https://github.com/davglass/license-checker/commit/057af47bc52ac526f646ba21496f338689801809) added licenseFile assertion to tests (@davglass)
- [#92](https://github.com/davglass/license-checker/pull/92) Merge pull request #92 from abtris/includeFileContent (@abtris)
- [1cda118](https://github.com/davglass/license-checker/commit/1cda118e1aa18cc391ba2765dccae89172943a0f) fix: replace problematics chars for easy import to Excel (@abtris)

- [dd6ecab](https://github.com/davglass/license-checker/commit/dd6ecab1a7b1354c4d1d001491f58dbe0f5e3e63) feat: add licenseText (@abtris)
- [6395498](https://github.com/davglass/license-checker/commit/639549890c54a12043244579ad0c0d5972309fb2) changes and contrib (@davglass)

v8.0.4 (2017/02/15 16:21 +00:00)
- [28d379a](https://github.com/davglass/license-checker/commit/28d379aca51da7a47af324bc6feb63736ea02295) 8.0.4 (@davglass)
- [#89](https://github.com/davglass/license-checker/pull/89) Merge pull request #89 from Pawamoy/master (@Pawamoy)
- [#90](https://github.com/davglass/license-checker/pull/90) Merge pull request #90 from drewfish/bsd-source-code (@drewfish)
- [b704bc1](https://github.com/davglass/license-checker/commit/b704bc18a43de246302b8ff6933f8fe5f96ee3a6) guess BSD-Source-Code license (@drewfish)
- [8d31eab](https://github.com/davglass/license-checker/commit/8d31eabfb671d32e6f3e63215d6530d7fb4acc59) Add docs about customFormat option (@pawamoy)
- [2529d31](https://github.com/davglass/license-checker/commit/2529d3118dfae53f1e01056ec99f5c542cb8d63e) changes (@davglass)

v8.0.3 (2016/11/10 17:04 +00:00)
- [66fd7b5](https://github.com/davglass/license-checker/commit/66fd7b5ad5577cc2c85668a7c6607365c86a2c85) 8.0.3 (@davglass)
- [#87](https://github.com/davglass/license-checker/pull/87) Merge pull request #87 from drewfish/guess-cc0 (@drewfish)
- [668bbd3](https://github.com/davglass/license-checker/commit/668bbd38fd5148f99c5263f4e0506e04d5e3f8a0) guess CC0-1.0, upgraded jshint (@drewfish)

v8.0.2 (2016/11/09 21:57 +00:00)
- [0bdedd8](https://github.com/davglass/license-checker/commit/0bdedd8cb990e1f5ffacde1c12cc708185a5b866) 8.0.2 (@davglass)
- [ef67bb4](https://github.com/davglass/license-checker/commit/ef67bb454373352343faa49d4dc978a295bd1544) updated semver (@davglass)
- [14b5c85](https://github.com/davglass/license-checker/commit/14b5c8551ccbb5c5ce8aa76fb5367857c891d013) Changelog (@davglass)

v8.0.1 (2016/11/09 21:51 +00:00)
- [594871d](https://github.com/davglass/license-checker/commit/594871d6197a030121f940500495e6ca7d82f02c) 8.0.1 (@davglass)
- [c243663](https://github.com/davglass/license-checker/commit/c243663b0ab8a0126251292a57b2c47369a51ebf) added
 contrib (@davglass)
- [#86](https://github.com/davglass/license-checker/pull/86) Merge pull request #86 from drewfish/copying (@drewfish)
- [380aa26](https://github.com/davglass/license-checker/commit/380aa26799cb527739907484e69c6dae26d5f17a) also support COPYING file (@drewfish)
- [329c367](https://github.com/davglass/license-checker/commit/329c3676d0cd5c5947a53fd205ff23b767b7f882) handling undefined@undefined error better (@davglass)
- [1f93a07](https://github.com/davglass/license-checker/commit/1f93a072632aad0660b63f61c56c3bd2fe109474)

changelog (@davglass)

v8.0.0 (2016/09/09 13:23 +00:00)
- [44c2c48](https://github.com/davglass/license-checker/commit/44c2c48ae177915523fdf89a74474fe0953408bf) 8.0.0 (@davglass)
- [b5f5c6a](https://github.com/davglass/license-checker/commit/b5f5c6ae03a8c60c52fdd308f1721744a4baaa99) [fixes #78] - include notice file if found (@davglass)
- [dfcbd6f](https://github.com/davglass/license-checker/commit/dfcbd6f4966adc74e065f71e45cbd08ba8fe62ab) changelog
 (@davglass)
- [99976d0](https://github.com/davglass/license-checker/commit/99976d07980e241384be10341d0305d08de9cea5) 7.1.1 (@davglass)
- [ef857b7](https://github.com/davglass/license-checker/commit/ef857b7e9bab706299a1cc565ec5d144893af424) [fixes #77] fixed readme file name parsing, made it more strict (@davglass)

v7.1.1 (2016/09/07 19:16 +00:00)
- [28be6d4](https://github.com/davglass/license-checker/commit/28be6d4128a3625cf8ed37ba149e79ed3a41b4fa) changelog (@davglass)

v7.1.0 (2016/09/07 15:12 +00:00)
- [9f8b7f1](https://github.com/davglass/license-checker/commit/9f8b7f1c367dfe86342ee5f5cc97171bf97281aa) 7.1.0 (@davglass)
- [60fce1a](https://github.com/davglass/license-checker/commit/60fce1a24a4ef5add98a08dd8c8a85870db3f4a6) Fixed order of operations for parsing (@davglass)
- [9d4db11](https://github.com/davglass/license-checker/commit/9d4db112794b8110a1bfe0abfe2d3e63bc812299) Updated changelog (@davglass)

v7.0.0 (2016/09/06 14:50 +00:00)
- [a3a08da](https://github.com/davglass/license-checker/commit/a3a08da70b680d724045f655e107f36b16b45fea) 7.0.0 (@davglass)
- [b993399](https://github.com/davglass/license-checker/commit/b9933994472162cc9c4292cb42f2900e17a5167f) added contrib (@davglass)
- [d783029](https://github.com/davglass/license-checker/commit/d7830297b053496e45b7145b3cfa5809ac8ab1d1) Fixes #76 - If readme data not found, look for it on disk (@davglass)
- [#75](https://github.com/davglass/license-checker/pull/75) Merge pull request #75 from revov/master (@revov)
- [6204a24](https://github.com/davglass/license-checker/commit/6204a244ee71ae0329b4f2c1ca6cf37713741f32) Fix incorrect example in README (@revov)
- [90e24ac](https://github.com/davglass/license-checker/commit/90e24ac9ad20591d5ac166cc2974034fb997b30a) Added changelog (@davglass)
- [dd768c6](https://github.com/davglass/license-checker/commit/dd768c6c8cbc39b596881a2eca582ad4bb816879) Added contributors (@davglass)

v6.0.0 (2016/08/26 19:46 +00:00)
- [4bca140](https://github.com/davglass/license-checker/commit/4bca140db752b7b98ad1e261e5ee965d84995741) 6.0.0 (@davglass)
- [889ff17](https://github.com/davglass/license-checker/commit/889ff171aeb01a2180f4c9100ca9ea528a264d81) updating tests (@davglass)
- [ed18801](https://github.com/davglass/license-checker/commit/ed188010351c4afb44db0d32dfa1025de53bf10f)

Merge branch 'nodeback' of git://github.com/bengl/license-checker into bengl-nodeback (@davglass)
- [34bb266](https://github.com/davglass/license-checker/commit/34bb26677cd0e25500fa545d4f1e8aef216b8cc7) dropping node 0.10 and adding node 6.0 to travis (@davglass)
- [1d30667](https://github.com/davglass/license-checker/commit/1d306674a7fface2cad31f2bd76d7584c7922bbc) updating tests (@davglass)
- [65d7c73](https://github.com/davglass/license-checker/commit/65d7c73f967111003fcc71ae24a4a5391bd48046) Cleaned up some code (@davglass)
- [f753998](https://github.com/davglass/license-checker/commit/f753998a06cbb5fd9fff6430b3588a3b3cf81339) Merge branch 'master' of git://github.com/amittkSharma/license-checker
 into amittkSharma-master (@davglass)
- [28e4462](https://github.com/davglass/license-checker/commit/28e4462543724685080c1623dc2dbd57cabb1c30) Added tests and cleaned up linting (@davglass)
- [153857a](https://github.com/davglass/license-checker/commit/153857a251a97d14c883f6479579844b2980b5aa) Publisher Information incorporated.
- [1265cb3](https://github.com/davglass/license-checker/commit/1265cb38d186ab1609dbdfa4124f237f8aa15846) Added ability to output individual license files (@aweber1)
- [49e11d0](https://github.com/davglass/license-checker/commit/49e11d049645d565b7ef6d3c778af54eb13af888) fix tests (@bengl)
- [26ffc6f](https://github.com/davglass/license-checker/commit/26ffc6f63d43c372c9a18f9c0c137608b3d5e4fa) use nodeback/errback (@bengl)

v5.1.2 (2016/05/04 18:32 +00:00)
- [7101c77](https://github.com/davglass/license-checker/commit/7101c77667ad134fe01f02c298e7df2a4080e311) 5.1.2 (@davglass)
- [#67](https://github.com/davglass/license-checker/pull/67)
 Merge pull request #67 from graingert/patch-2 (@graingert)
- [a6ee290](https://github.com/davglass/license-checker/commit/a6ee2904eb7fcced220dcfe8548f80ec74fde3a2) Upgrade read-installed (@graingert)
- [42e29c6](https://github.com/davglass/license-checker/commit/42e29c637940959121842762d74921bece5e8d93) migrating tests from vows to mocha (@davglass)

v5.1.1 (2016/04/14 13:20 +00:00)
- [6ae0334](https://github.com/davglass/license-checker/commit/6ae03348ca8e5835ac732028afdab664a381cfc4) 5.1.1 (@davglass)
- [0720a46](https://github.com/davglass/license-checker/commit/0720a46569f3e12eb398165526944f307e08aad6) Fixes #64 - Turn off color for --json/markdown/csv options (@davglass)

v5.1.0 (2016/03/09 15:50 +00:00)
- [86772d2](https://github.com/davglass/license-checker/commit/86772d202b63d4a4c6729b9a774193ca6ef5cb3f) 5.1.0 (@davglass)
- [#61](https://github.com/davglass/license-checker/pull/61) Merge pull request #61 from sgtdck/master (@sgtdck)
- [6547ac1](https://github.com/davglass/license-checker/commit/6547ac1ded58560c7c4abdfc68fa69d17b81fe1e)
 Removed obsolete d[key].name assignment from tests (@sgtdck)
- [00b18a6](https://github.com/davglass/license-checker/commit/00b18a6012387e1a4a8284c07bf2d08740e03ddd) Added a --relativeLicensePath option to display the license file relatively to the current path. (@sgtdck)
- [629da20](https://github.com/davglass/license-checker/commit/629da201e0d1170057fd9efe05efcb293d2f1bda) Added latest contributors (@davglass)

v5.0.1 (2016/02/08 15:57 +00:00)
- [33731fc](https://github.com/davglass/license-checker/commit/33731fca482936a7a18fffe3fca2f3cd41e3a625) 5.0.1 (@davglass)
- [fe06eae](https://github.com/davglass/license-checker/commit/fe06eaef8844d050ad0f80d576a221dd605131de) Fixed repplace (@davglass)
- [997914f](https://github.com/davglass/license-checker/commit/997914fd6f94030452d4d9bf549eb156ae8ef7c0) fix git+https URLs (@graingert)
- [#57](https://github.com/davglass/license-checker/pull/57) Merge pull request #57 from Damien-Larmine/doc-license-asterisk (@Damien-Larmine)
- [2adff2d](https://github.com/davglass/license-checker/commit/2adff2da98a5af79479a162e4998eb5892ab31c3) Explicit the asterisk in license report (@Damien-Larmine)
- [b2fc9cf](https://github.com/davglass/license-checker/commit/b2fc9cf2a8eaa008c7593037d046f245a7ce7f25) 5.0.0 (@davglass)
- [7f71c53](https://github.com/davglass/license-checker/commit/7f71c53833cf1318ffe84215fcb1291f9ce4fbd5) updated contributors (@davglass)

v5.0.0 (2016/01/22 15:31 +00:00)
- [#55](https://github.com/davglass/license-checker/pull/55) Merge pull request #55 from davglass/devflag (@davglass)
- [ff1d8f2](https://github.com/davglass/license-checker/commit/ff1d8f20d5d7248a4f61e2fc9279fdfea91a6ec6) supporting --production and --development flags (@davglass)
- [#53](https://github.com/davglass/license-checker/pull/53) Merge pull request #53 from swashcap/enhancement/#46-verbose-output (@swashcap)
- [#54](https://github.com/davglass/license-checker/pull/54) Merge pull request #54 from davglass/travis-updates (@davglass)
- [2c80d9d](https://github.com/davglass/license-checker/commit/2c80d9d2dcc59340698630144256096a91e23f22) fixing tests in other node versions (@davglass)
- [78820ac](https://github.com/davglass/license-checker/commit/78820ac33ab8aed74809c8a5f8847705c8b2848e) travis config updates (@davglass)
- [f94263b](https://github.com/davglass/license-checker/commit/f94263b203046e2f53d64997b0261498010eb38d) Update documentation for debug use. (@swashcap)
- [429e44d](https://github.com/davglass/license-checker/commit/429e44d697527221ef22bb03af9d67820015446f) Change `console.error` call to use debug module. (@swashcap)
- [7312daf](https://github.com/davglass/license-checker/commit/7312daf7af195a1b9d1b1f290fae15963fbb2ab4) Add debug to project. (@swashcap)

v4.2.0 (2015/10/20 13:44 +00:00)
- [3583d92](https://github.com/davglass/license-checker/commit/3583d925e96fc9f63b3bbf0110b11c8448aed0e7) 4.2.0 (@davglass)
- [981eeda](https://github.com/davglass/license-checker/commit/981eeda898084dea88d54ea29c5bda93c5313fb6) Fixes #49: Default to unknown if licenses null and added ISC support (@davglass)

v4.1.2 (2015/09/29 13:46 +00:00)
- [ba946dd](https://github.com/davglass/license-checker/commit/ba946dd1065e762c36b27dcecdd9bb7389ad18d4) 4.1.2 (@davglass)
- [#48](https://github.com/davglass/license-checker/pull/48) Merge pull request #48 from CantemoInternal/master (@CantemoInternal)
- [e314a6d](https://github.com/davglass/license-checker/commit/e314a6d1f505d19478c33871640a763fabff6abd)

Fix json, csv and markdown output for license-checker (@mattiasa)

v4.1.1 (2015/09/12 14:39 +00:00)
- [c918314](https://github.com/davglass/license-checker/commit/c918314bfc687b647d1d288bb5857dd1caac1393) 4.1.1 (@davglass)
- [#47](https://github.com/davglass/license-checker/pull/47) Merge pull request #47 from tmpvar/ensure-bin-runs (@tmpvar)
- [a842eca](https://github.com/davglass/license-checker/commit/a842ecae4f008c07df3039dcaacd4641d7273625) add missing } (@tmpvar)
- [1d513bb](https://github.com/davglass/license-checker/commit/1d513bb673d726f34286061446f965e46d96170e) ensure bin/license-checker works at a high-level (@tmpvar)

v4.1.0 (2015/09/09 14:52 +00:00)
- [a4bb437](https://github.com/davglass/license-checker/commit/a4bb437ffa806c0832f877da2de7a107863d0a1f) 4.1.0 (@davglass)
- [ddd317a](https://github.com/davglass/license-checker/commit/ddd317a5a09344f0021812b8dee2f39bbbbf07a0) fixed all of the windows line endings (@davglass)
- [11e6487](https://github.com/davglass/license-checker/commit/11e64870484435e1e6f8efb9b0f13e6b2f737a6b) Fix issues caused by merge (@ptusch)
- [313a7ed](https://github.com/davglass/license-checker/commit/313a7edc3dbdf8d50e43ba8da89306d3c89326bc) Merge remote-tracking branch 'remotes/upstream/master' into ft_custom_format (@ptusch)
- [1f5e326](https://github.com/davglass/license-checker/commit/1f5e326dbca91fc8a396b9e02efe3eac9fd82a82) added contributors to package.json
 (@davglass)
- [#45](https://github.com/davglass/license-checker/pull/45) Merge pull request #45 from hufsm/ft_error_handling (@hufsm)
- [c806034](https://github.com/davglass/license-checker/commit/c806034ab6feaecf297d0c23afb536b290ba8c81) Remove unused var statement (@ptusch)
- [778b1fa](https://github.com/davglass/license-checker/commit/778b1fa1a9c1be0c816545165020522d2dbf17ef) More tests to fulfill the required % (@ptusch)
- [22257d9](https://github.com/davglass/license-checker/commit/22257d95490765db816578cc48c2b5b62699f1aa) Add tests for licenses (WTFPL) (@ptusch)
- [0fe7561](https://github.com/davglass/license-checker/commit/0fe75611a73970fe9e9e0aab2d4bdee5250435b2) Remove unused filter option (never used) (@ptusch)
- [83caa10](https://github.com/davglass/license-checker/commit/83caa10493a5a05ffba6c0e80b5c03f9cd4f65d6) Change license shortcut for WTFPL (@ptusch)
- [3e348db](https://github.com/davglass/license-checker/commit/3e348dbe5feeb7bd356ebef3cd34e69329dbc8c1) More
 tests for the custom formatter (@ptusch)
- [96c2d6f](https://github.com/davglass/license-checker/commit/96c2d6f24c509df2bf3f6bd8b83a613fea8d9ecc) Add tests for customFormatter (@ptusch)
- [c9948c4](https://github.com/davglass/license-checker/commit/c9948c4b7b2cccdd053ba63f4fd2a6a6d0a46493) Add test configs (@ptusch)
- [4b2dea0](https://github.com/davglass/license-checker/commit/4b2dea0c124f6aba63abd2129625825c3b5a6570) Fix merge issues - semicolon slipped through (@ptusch)
- [cc7662a](https://github.com/davglass/license-checker/commit/cc7662a46719c97745410e3ac2b782f937dc54ef) Merge branch 'master' into ft_error_handling (@ptusch)
- [04a2294](https://github.com/davglass/license-checker/commit/04a2294b82a8227cccb83d76f73cbd7cf62af533)

Add additional test (@ptusch)
- [52fa91c](https://github.com/davglass/license-checker/commit/52fa91c5cbc345736ebe6e97f400a27a773502d2) Add parseJson test (@ptusch)
- [d846c5e](https://github.com/davglass/license-checker/commit/d846c5e6970737dd3085688e7b601e9ea4546417) Fix tests after merge conflict (@ptusch)
- [7eac458](https://github.com/davglass/license-checker/commit/7eac4583f8003b5bda4ef966768bbb457fe8dc44) Merge branch 'master' into ft_custom_format (@ptusch)
- [4aa7065](https://github.com/davglass/license-checker/commit/4aa7065c5eef88d49c3684369b2edd9802c3f374) Add tests for customFormat (@ptusch)

v4.0.0 (2015/09/04 13:40 +00:00)
- [3fbba5b](https://github.com/davglass/license-checker/commit/3fbba5bd5a489ea8c17328eabf71c4d5e9beb17e) 4.0.0 (@davglass)
- [ce8d661](https://github.com/davglass/license-checker/commit/ce8d66108a49af7855c16231ce675c567a2ffe7f) tests: added 100% coverage for license file (@davglass)
- [#42](https://github.com/davglass/license-checker/pull/42) Merge pull request #42 from ptusch/ft_onlyunknown (@ptusch)
- [8929e90](https://github.com/davglass/license-checker/commit/8929e90413be0362f19e755048e9218c372abf68) Add tests for the error generation (@ptusch)
- [1a93a41](https://github.com/davglass/license-checker/commit/1a93a41569a53a1580c94c2c903a5bc127ad2692) Add error handling (@ptusch)
- [6b79145](https://github.com/davglass/license-checker/commit/6b791457463dca71b22b09eecff16bbf982db682) Add additional check to negate the test (@ptusch)
- [559e72c](https://github.com/davglass/license-checker/commit/559e72ccab2420bc42bf28b498702dad13ef967a) Add test for the first function call. (@ptusch)
- [faf8ffd](https://github.com/davglass/license-checker/commit/faf8ffd69fd8ae475484a9b47b57a7b6ea738856) Remove trivial UNKNOWN check (@ptusch)
- [6fa44ef](https://github.com/davglass/license-checker/commit/6fa44ef8c045ab2b0a1291b45990edf52adfc0e2) Merge branch 'master' into ft_custom_format (@ptusch)
- [efe23d9](https://github.com/davglass/license-checker/commit/efe23d991cfcb40dc6980fbf13461408da822b1f) Merge branch 'master' into ft_onlyunknown (@ptusch)
- [c287959](https://github.com/davglass/license-checker/commit/c2879592858805d7ecd0304a39c5cf079efe6a7c) Add option to only show unknown licenses (@ptusch)
- [#43](https://github.com/davglass/license-checker/pull/43) Merge pull request #43 from senotrusov/master (@senotrusov)
- [d7a663f](https://github.com/davglass/license-checker/commit/d7a663f9deeb4d7a648a6d2cb9db84d5667ee540) Add test for exclude option. (@senotrusov)
- [45a27de](https://github.com/davglass/license-checker/commit/45a27de02a3c1d57a86e3f8e14b6e335788c23ba) Add option to exclude from the output modules which licenses are in the comma-separated list (@senotrusov)
- [#41](https://github.com/davglass/license-checker/pull/41) Merge pull request #41 from ptusch/ft_path_to_unknown_dependency (@ptusch)
- [1ff5f22](https://github.com/davglass/license-checker/commit/1ff5f225fd2ba97edfd3ef3f6462981832740c19) Add option to see the path of a dependency if unknown (@ptusch)
- [ea4d629](https://github.com/davglass/license-checker/commit/ea4d6297de32d94201bb4786da7ba824d928c8f2) Add additional 'undefined' checks (@ptusch)
- [af043a2](https://github.com/davglass/license-checker/commit/af043a2c11af45d28bfe71914cd10672855b3297)

Merge branch 'master' into ft_custom_format (@ptusch)
- [2d94a19](https://github.com/davglass/license-checker/commit/2d94a19ece177836345a4227893a82d956141b2e) updating the docs for --unknown to make it clear (@davglass)
- [38a2bd2](https://github.com/davglass/license-checker/commit/38a2bd28a9597fdb06d844258f1070054b38bbcf) Fix codestyle and whitespaces (@ptusch)
- [dd173ba](https://github.com/davglass/license-checker/commit/dd173badc65368dc6140476ffe5ae3768fbf9618) Add --customPath in README.md (@ptusch)
- [911fc1c](https://github.com/davglass/license-checker/commit/911fc1c6b5cc27a32aac60bb409c08be138bc707) Finalize the customFormat (markdown) (@ptusch)
- [8102091](https://github.com/davglass/license-checker/commit/8102091f7949fa8b73cfc803e4aead3624b81148) Add functionality to add a custom format (@ptusch)

v3.1.0 (2015/06/29 14:25 +00:00)
- [59e1e58](https://github.com/davglass/license-checker/commit/59e1e58ca0bea1cd38e3da1712fe7ca624d860b0) 3.1.0 (@davglass)
- [0e33f7a](https://github.com/davglass/license-checker/commit/0e33f7a2cb9fa69d13d1e2b5c69f70f885e09e08) reformatted code, fixed lint issues and added tests (@davglass)
- [83a7f09](https://github.com/davglass/license-checker/commit/83a7f0933d1cc1f331279e53fcce13e4efface91) Merge branch 'asMarkdown' of git://github.com/ptusch/license-checker into ptusch-asMarkdown (@davglass)
- [703ad47](https://github.com/davglass/license-checker/commit/703ad4714173559e05267e8fd24c74e5b9d3aee0) fixing tests (@davglass)
- [2d9fffd](https://github.com/davglass/license-checker/commit/2d9fffd75192e9812692c9099481d23e265bb493) Added Markdown Option (@ptusch)
- [67dca36](https://github.com/davglass/license-checker/commit/67dca365b941a7265e4a98d2de533b22c761b169) Remove color tags (@ptusch)

v3.0.3 (2015/06/03 13:35 +00:00)
- [7475c12](https://github.com/davglass/license-checker/commit/7475c129bf291289e4616d9692a962ae537401e8) 3.0.3 (@davglass)
- [c7dae0f](https://github.com/davglass/license-checker/commit/c7dae0fe5317a17b3aef61e8c118fafc6bb43a56) spdx license (@davglass)

v3.0.2 (2015/05/12 20:29 +00:00)
- [01f3b53](https://github.com/davglass/license-checker/commit/01f3b5384998be6243d38e0d95a4478e5fe3cfa5) 3.0.2 (@davglass)
- [fc0c083](https://github.com/davglass/license-checker/commit/fc0c0832ee291c55e53efe6b37a7b9d89f191bc7) defensive code, fixes #34 (@davglass)

v3.0.1 (2015/05/04 12:28 +00:00)
- [0479570](https://github.com/davglass/license-checker/commit/0479570faf87eccc9b37fbb25afaee7faaec6636) 3.0.1 (@davglass)
- [d85e355](https://github.com/davglass/license-checker/commit/d85e355b55998952facf202eabf8d374fec69a7e) Checking for valid path first (@davglass)

v3.0.0 (2015/04/24 14:38 +00:00)
- [e22b61d](https://github.com/davglass/license-checker/commit/e22b61d5d32fef7ffb18627f55a97e1863a78096) 3.0.0 (@davglass)
- [fde9635](https://github.com/davglass/license-checker/commit/fde963583dd207eca4badffb3e0d033a038f17b5)

always try to find and log the
license file (@davglass)

v2.0.2 (2015/01/26 18:18 +00:00)
- [490f31d](https://github.com/davglass/license-checker/commit/490f31d6820f068814cfe27adf3af1ac6d58f733) 2.0.2 (@davglass)
- [a3fefdb](https://github.com/davglass/license-checker/commit/a3fefdb8fafd7ec64714defb793d757a9e8ad065) fixes #30 (@davglass)

v2.0.1 (2015/01/12 18:34 +00:00)
- [898fbd5](https://github.com/davglass/license-checker/commit/898fbd53fa289338cf8a9a1735eea440c2a6c525) 2.0.1 (@davglass)
- [2da23db](https://github.com/davglass/license-checker/commit/2da23db2f240e7e73efdf93cc554e4d7783af225) cleaned up spacing and moved vars around (@davglass)
- [d47dbe4](https://github.com/davglass/license-checker/commit/d47dbe45c992dbbdb15bfb45e8af7f18ee0ca737) fixes #29 (@davglass)

v2.0.0 (2014/12/04 16:34 +00:00)
- [f94edfe](https://github.com/davglass/license-checker/commit/f94edfec7a9914b4a36f455e8bffc6230d6f7a5e) 2.0.0 (@davglass)
- [f4c7b1a](https://github.com/davglass/license-checker/commit/f4c7b1a3d4e9c0e4753a9b267e51714fe7f7051e) syntax cleanup (@davglass)
- [d189623](https://github.com/davglass/license-checker/commit/d1896234a5649621ee57ff9a901877d769217194) Document CLI options in Readme. (@timoxley)
- [11e204c](https://github.com/davglass/license-checker/commit/11e204c5c078eaee1f165fa010da229d2a9fb4b5) Default to --no-colour for json, csv & file output. (@timoxley)
- [7e80d50](https://github.com/davglass/license-checker/commit/7e80d50c733f8ee42c7b4a79dc3344b3dd330cff) Add --out flag for writing an output file. (@timoxley)
- [47bffc9](https://github.com/davglass/license-checker/commit/47bffc9e0e249b2847c8ed4f3eaadb0dcdd731b9) Always print to stdout, don't write files. (@timoxley)
- [b725080](https://github.com/davglass/license-checker/commit/b725080d2dbdfddbf0994867577d4c5e3dc0ee2a) Don't print info messages to stdout. (@timoxley)

v1.0.1 (2014/11/27 15:23 +00:00)
- [e60f792](https://github.com/davglass/license-checker/commit/e60f792159351aa7ccff1f7af73e289afee261a5) 1.0.1 (@davglass)
- [3f74178](https://github.com/davglass/license-checker/commit/3f7417822dc8804978d1bae4ed84190d327df15c) Merge branch 'fixinfiniterecursion' of github.com:yzapuchlak/license-checker into yzapuchlak-fixinfiniterecursion (@davglass)
- [dc78ea0](https://github.com/davglass/license-checker/commit/dc78ea0dca546283440c89fec2dc6818dc4cc1c1) sticking vows 0.8.0 for testing (@davglass)
- [bd549b3](https://github.com/davglass/license-checker/commit/bd549b3b68e74fddd0e08dac10d5f88a8bb51ca6) Fixed issue where circular dependencies in dependency tree would cause the flatten function to infinitely recurse. If the current key is found to be already in the data object (which means it was already processed), we stop processing that key and return the data object. (@yzapuchlak)

v1.0.0 (2014/11/21 13:56 +00:00)

- [917193d](https://github.com/davglass/license-checker/commit/917193dab27147534976b71307a77f48198ca322) 1.0.0 (@davglass)
- [63e5f9c](https://github.com/davglass/license-checker/commit/63e5f9c77e348720b3867171bcc67541e846d088) added options.filter to checker.init (@davglass)

v0.1.2 (2014/11/20 15:48 +00:00)
- [8e5f5f0](https://github.com/davglass/license-checker/commit/8e5f5f0e7f83252e4039f6c7d16cc266acc1a33a) 0.1.2 (@davglass)
- [3d7a74e](https://github.com/davglass/license-checker/commit/3d7a74e90122f908057b2008ab29d8bd49011291) fixed lint issue (@davglass)

v0.1.1 (2014/11/20 15:47 +00:00)
- [750d507](https://github.com/davglass/license-checker/commit/750d5079d32b44ecc984ff7ed672498d1b197235) 0.1.1 (@davglass)
- [94522e0](https://github.com/davglass/license-checker/commit/94522e099434dfdf163c3f2c5cacb3e6aa196cf8) fixed merge issues (@davglass)

v0.1.0 (2014/11/20 15:41 +00:00)
- [8127f5e](https://github.com/davglass/license-checker/commit/8127f5e79eeceb7dfd86cd5f694080e4183dcb11) 0.1.0 (@davglass)
- [76c71ac](https://github.com/davglass/license-checker/commit/76c71ac46baeca8c349fe5892dcb659e859b9608) Updated to newer read-installed (@davglass)

v0.0.10 (2014/08/12 12:48 +00:00)
- [807507d](https://github.com/davglass/license-checker/commit/807507df1a293bc0360adffd725a9f911331ff2b) 0.0.10 (@davglass)
- [e39ad9b](https://github.com/davglass/license-checker/commit/e39ad9bce6bcd545772c241e2e7aba8f40d5bbbb) Added checking that the license file is a normal file, because otherwise an appropriately named directory crashes the license-checker through EISDIR, illegal operation on a directory.
- [40ca4da](https://github.com/davglass/license-checker/commit/40ca4dadbc163ca774c87b1de249bd295952faa9) colorize (@couchand)

v0.0.9 (2014/07/29 01:48 +00:00)
- [c14ef79](https://github.com/davglass/license-checker/commit/c14ef79f10f950ff0985e7e0b3138147b98ab1ec) 0.0.9 (@davglass)
- [ba1b66b](https://github.com/davglass/license-checker/commit/ba1b66b6172a2f9f8dbcdc56f40206820bc0916b) Fixes #12 - Using some nicer regexes (@davglass)
- [bce94d5](https://github.com/davglass/license-checker/commit/bce94d5a8ab2f146356851776b2543df65fbf750) case insensative check (@davglass)
- [87c3406](https://github.com/davglass/license-checker/commit/87c3406aee2507eaf1d00d592f6dcb59a16e7c48) Allow for LICENCE (@gdw2)

v0.0.8 (2014/07/07 20:10 +00:00)
- [6ad6ee2](https://github.com/davglass/license-checker/commit/6ad6ee21813e698e7f995e98dcadafbd961f6a33) 0.0.8 (@davglass)
- [b8c5815](https://github.com/davglass/license-checker/commit/b8c58151135f57d91fb0d1cfb194d034c012073f)

added tests and refactored the code a little (@davglass)
- [275f276](https://github.com/davglass/license-checker/commit/275f276dc6e6d5635f9cb5b7e9a978e286f2d174) Added --csv option to readme file
- [d91eb72](https://github.com/davglass/license-checker/commit/d91eb7289466853ae6e88448b953b4d3d98ebab5) Apparently abbrev is now at version 1.0.5 which caused the unit test to fail.
- [40b4a42](https://github.com/davglass/license-checker/commit/40b4a420e520c2008b9395d1a8fdf38b56f846f5) Modified changes based on lshint output during Travis build
- [54e2390](https://github.com/davglass/license-checker/commit/54e2390cefd1dc664a15cd3a84347227f889f48b) Added csv output option similar to the existing JSON output option. Requires an output filename.

v0.0.7 (2014/02/26 04:52 +00:00)
- [1ce6d42](https://github.com/davglass/license-checker/commit/1ce6d42147b2d0237870818e8059003b331816cf) 0.0.7 (@davglass)
- [7d04195](https://github.com/davglass/license-checker/commit/7d041959450c68b3c5f427007c43cd6c73c6adfb) Added not check and a proper test (@davglass)
- [40d6e25](https://github.com/davglass/license-checker/commit/40d6e2580946c3cee1d408ebe28ff523852e8eb2) Undefined handling (@garrows)
- [90217d0](https://github.com/davglass/license-checker/commit/90217d070fd62cf76eb4e7b1610ed5eef6ae840d) travis Stuff (@davglass)
- [2bd76c8](https://github.com/davglass/license-checker/commit/2bd76c894f740cd83f6246e0e7341832c6432d8b) 0.0.6 (@davglass)
- [6f390ff](https://github.com/davglass/license-checker/commit/6f390fff60b31a07939e6d325796bdcbfefb5907) Added some better tests
(@davglass)
- [2dbcac3](https://github.com/davglass/license-checker/commit/2dbcac37b5795ceb6db53452d0e41d1c4bc3153f) Looking for WTFPL as well as the string (@davglass)
- [5d91a07](https://github.com/davglass/license-checker/commit/5d91a073a8b76ec9a497c1e3b83198ce97e144fd) Flattened array of one (@davglass)
- [e95da82](https://github.com/davglass/license-checker/commit/e95da820c63e0d56c4567f1cfad07142d3110eca) Fixed extra var (@davglass)
- [fe8f2f7](https://github.com/davglass/license-checker/commit/fe8f2f7d39d520c0c4d87d34c9d4f55d59f4222d) Removing unecessary log statement (@paulmand3l)
- [72a6f24](https://github.com/davglass/license-checker/commit/72a6f2403de43ecf5ec07bb504cb931c0e53f6a3) Adding license checks in the LICENSE file (and variations) (@paulmand3l)
- [#7](https://github.com/davglass/license-checker/pull/7) Merge pull request #7 from jamesbloomer/master (@jamesbloomer)
- [a81eee0](https://github.com/davglass/license-checker/commit/a81eee0a27f580688e371cc15015e848f591bb92) Fixed missing "install" in npm -g (@jamesbloomer)
- [416b012](https://github.com/davglass/license-checker/commit/416b01219e07a8274e05cd883ec050376902adeb) Updated Version (@davglass)
- [6d9bd1e](https://github.com/davglass/license-checker/commit/6d9bd1e195202c871693d4b1e9bac8c055683e8b) Fixed lint issue and added a test placeholder. Will add more tests soon (@davglass)
- [655a316](https://github.com/davglass/license-checker/commit/655a316f6448daf3c449f8b88e8878a95a8b153e) Added Travis test file (@davglass)
- [99895df](https://github.com/davglass/license-checker/commit/99895df6d3ac0f9ae4e8c935311fb1b3f88a688e) Version Bump (@davglass)
- [#4](https://github.com/davglass/license-checker/pull/4) Merge pull request #4 from badunk/refactor (@badunk)
- [1123a1b](https://github.com/davglass/license-checker/commit/1123a1baefc1975f8c36cb59952254cd66c31017)

Merge branch 'master' of https://github.com/davglass/license-checker (@badunk)
- [191612e](https://github.com/davglass/license-checker/commit/191612e5c21a01bd453368299a14cc5ff1c6fb13)
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- [#2](https://github.com/davglass/license-checker/pull/2) Merge pull request #2 from badunk/circular (@badunk)
- [9b5a117](https://github.com/davglass/license-checker/commit/9b5a1175892254e96d72f3d8dc793dcc4e2bde37)
fixed special case when an empty array is passed to license/licenses (@badunk)
- [025668b](https://github.com/davglass/license-checker/commit/025668b0a62b0d5b58662ce6aeed91de909a6fef)
fixed bug with multiple licenses objects not showing (@badunk)
- [e6bdf52](https://github.com/davglass/license-checker/commit/e6bdf52a8e5f9ebed29982014fa4d4586f63d06a)
cleaned up the code (@badunk)
- [efb62f2](https://github.com/davglass/license-checker/commit/efb62f2f52a29e9a37a7f387b280fc17ab0a5f19)
added check for circular dependencies (@badunk)
- [825b40c](https://github.com/davglass/license-checker/commit/825b40cb61fee36dd60751daa9d44e28853587ac)
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- [#1](https://github.com/davglass/license-checker/pull/1)
 Merge pull request #1 from mwilliamson/master (@mwilliamson)
- [2f24319](https://github.com/davglass/license-checker/commit/2f24319dd8dd212a1f78ad91af7fee21d50ab762)
Don't ignore license field if it's a string (@mwilliamson)
- [7b8c34f](https://github.com/davglass/license-checker/commit/7b8c34f75b04a7541bf23d596bbaae5447492c53)
Initial Commit (@davglass)
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1.6448 @jest/reporters/node_modules/chalk 4.1.2

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1.6449 jake/node_modules/color-convert 2.0.1

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1.6450 svgr-plugin-jsx 5.5.0

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1.6451 svgo/node_modules/css-select 2.1.0

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1.6452 eslint/node_modules/supports-color 7.2.0

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1.6453 detect-port-alt/node_modules/debug 2.6.9

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1.6454 jest-watch-typeahead/node_modules/@types/yargs 17.0.13

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1.6455 jest-util/node_modules/color-name 1.1.4

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1.6456 babel-loader/node_modules/schema-utils 2.7.1

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1.6457 eslint-plugin-react/node_modules/resolve 2.0.0-next.4

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1.6458 eslint-webpack-plugin/node_modules/ajv-keywords 5.1.0

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1.6459 jest-jasmine2/node_modules/has-flag 4.0.0

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1.6460 jest-validate/node_modules/color-convert 2.0.1

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1.6461 mini-css-extract-plugin/node_modules/json-schema-traverse 1.0.0

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1.6463 jest-message-util/node_modules/color-name 1.1.4

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1.6464 svgo/node_modules/domutils/node_modules/domelementtype 1.3.1

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1.6465 jest-util/node_modules/ansi-styles 4.3.0

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1.6466 @jest/reporters/node_modules/has-flag 4.0.0

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1.6467 acorn-node/node_modules/acorn 7.4.1

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1.6468 @jest/core/node_modules/has-flag 4.0.0

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1.6469 jest-jasmine2/node_modules/color-name 1.1.4

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1.6470 string-width/node_modules/emoji-regex 8.0.0

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validate-npm-package-license
==========

Give me a string and I'll tell you if it's a valid npm package license string.

```javascript
var valid = require('validate-npm-package-license');
```

SPDX license identifiers are valid license strings:

```javascript

var assert = require('assert');
var validSPDXExpression = {
 validForNewPackages: true,
 validForOldPackages: true,
 spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
```

The function will return a warning and suggestion for nearly-correct license identifiers:

```javascript
assert.deepEqual(
 valid('Apache 2.0'),
 {
   validForOldPackages: false,
   validForNewPackages: false,
   warnings: [
     'license should be ' +
     'a valid SPDX license expression (without "LicenseRef"), ' +
     '"UNLICENSED", or ' +
      '"SEE LICENSE IN <filename>"',
     'license is similar to the valid expression "Apache-2.0"'
   ]
 }
);
```

SPDX expressions are valid, too ...

```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
 valid('(GPL-3.0 OR BSD-2-Clause)'),
 validSPDXExpression
);
```

... except if they contain `LicenseRef`:

```javascript
var warningAboutLicenseRef = {
 validForOldPackages: false,
 validForNewPackages: false,
 spdx: true,
 warnings: [
   'license should be ' +
   'a valid SPDX license expression (without "LicenseRef"), ' +
   '"UNLICENSED", or ' +
   '"SEE LICENSE IN <filename>"',
 ]
};

assert.deepEqual(
 valid('LicenseRef-Made-Up'),
 warningAboutLicenseRef
);

assert.deepEqual(
 valid('(MIT OR LicenseRef-Made-Up)'),
 warningAboutLicenseRef
);
```

If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```javascript
assert.deepEqual(
 valid('SEE
 LICENSE IN LICENSE.txt'),
 {
   validForNewPackages: true,
   validForOldPackages: true,
   inFile: 'LICENSE.txt'
```

```
 }
);

assert.deepEqual(
 valid('SEE LICENSE IN license.md'),
 {
   validForNewPackages: true,
   validForOldPackages: true,
   inFile: 'license.md'
 }
);
```

If there aren't any licensing terms, use `UNLICENSED`:

```javascript
var unlicensed = {
 validForNewPackages: true,
 validForOldPackages: true,
 unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);
```

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https://github.com/bitinn/node-fetch
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Version 1.0.0

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spdx-license-ids

A list of [SPDX license](https://spdx.org/licenses/) identifiers

[**Download JSON**](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/spdx-license-ids.json)

Use as a JavaScript Library

[![NPM version](https://img.shields.io/npm/v/spdx-license-ids.svg)](https://www.npmjs.org/package/spdx-license-ids)
[![Bower version](https://img.shields.io/bower/v/spdx-license-ids.svg)](https://github.com/shinnn/spdx-license-ids/releases)
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[![devDependency Status](https://david-dm.org/shinnn/spdx-license-ids/dev-status.svg)](https://david-dm.org/shinnn/spdx-license-ids#info=devDependencies)

Installation

Package managers

[npm](https://www.npmjs.com/)

```sh
npm install spdx-license-ids
```

#####
 [bower](http://bower.io/)

```sh
bower install spdx-license-ids
```

[Duo](http://duojs.org/)

```javascript
const spdxLicenseIds = require('shinnn/spdx-license-ids');
```

Standalone

[Download the script file directly.](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/spdx-license-ids-browser.js)

API

spdxLicenseIds

Type: `Array` of `String`

It returns an array of SPDX license identifiers.

```javascript
```

```
const spdxLicenseIds = require('spdx-license-ids'); //=> ['Glide', 'Abstyles', 'AFL-1.1', ... ]
```

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Extracted from code in node-tap http://www.node-tap.org/

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```
[
 "Glide",
 "Abstyles",
 "AFL-1.1",
 "AFL-1.2",
 "AFL-2.0",
 "AFL-2.1",
 "AFL-3.0",
 "AMPAS",
 "APL-1.0",
 "Adobe-Glyph",
 "APAFML",
 "Adobe-2006",
 "AGPL-1.0",
 "Afmparse",
 "Aladdin",
 "ADSL",
 "AMDPLPA",
 "ANTLR-PD",
 "Apache-1.0",
 "Apache-1.1",
 "Apache-2.0",
 "AML",
 "APSL-1.0",
 "APSL-1.1",
 "APSL-1.2",
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"APSL-2.0",
"Artistic-1.0",
"Artistic-1.0-Perl",
"Artistic-1.0-cl8",
"Artistic-2.0",
"AAL",
"Bahyph",
"Barr",
"Beerware",
"BitTorrent-1.0",
"BitTorrent-1.1",
"BSL-1.0",
"Borceux",
"BSD-2-Clause",
"BSD-2-Clause-FreeBSD",
"BSD-2-Clause-NetBSD",
"BSD-3-Clause",
"BSD-3-Clause-Clear",
"BSD-4-Clause",
"BSD-Protection",
"BSD-Source-Code",
"BSD-3-Clause-Attribution",
"0BSD",
"BSD-4-Clause-UC",
"bzip2-1.0.5",
"bzip2-1.0.6",
"Caldera",
"CECILL-1.0",
"CECILL-1.1",
"CECILL-2.0",
"CECILL-2.1",
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// Original can be found at:
// https://bitbucket.org/lindenlab/llsd
// Modifications by Joshua Bell inexorabletash@gmail.com
// https://github.com/inexorabletash/polyfill

// ES3/ES5 implementation of the Krhonos Typed Array Specification
// Ref: http://www.khronos.org/registry/typedarray/specs/latest/
// Date: 2011-02-01
//
// Variations:
// * Allows typed_array.get/set() as alias for subscripts (typed_array[])
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{
"name": "kemitchell",
"email": "kyle@kemitchell.com"
},
{
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"email": "ogd@aoaioxxysz.net"
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"email": "kyle@kemitchell.com",
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"email": "kyle@kemitchell.com",
"url": "https://kemitchell.com"
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"author": {
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"email": "kyle@kemitchell.com",
"url": "https://kemitchell.com"
},
"contributors": [
{
"name": "Mark Stacey",
"email": "markjstacey@gmail.com"
}
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"npm",
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"validation"
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},
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"email": "kyle@kemitchell.com"
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"tmp": "tmp/validate-npm-package-license_3.0.4_1533488343147_0.7174321298588549"

```
    }
  }
},
 "readme": "validate-npm-package-license\n============================\n\nGive me a string and I'll tell you if it's a valid npm package license string.\n\n```javascript\nvar valid = require('validate-npm-package-license');\n```\n\nSPDX license identifiers are valid license strings:\n\n```javascript\n\nvar assert = require('assert');\nvar validSPDXExpression = {\n  validForNewPackages: true,\n  validForOldPackages: true,\n  spdx: true\n};\n\nassert.deepEqual(valid('MIT'), validSPDXExpression);\nassert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);\nassert.deepEqual(valid('Apache-2.0'), validSPDXExpression);\nassert.deepEqual(valid('ISC'), validSPDXExpression);\n```\nThe function will return a warning and suggestion for nearly-correct license identifiers:\n\n```javascript\nassert.deepEqual(\n  valid('Apache 2.0'),\n  {\n    validForOldPackages: false,\n    validForNewPackages: false,\n    warnings: [\n      'license should be ' +\n      'a valid SPDX license expression (without \"LicenseRef\"), ' +\n      '\"UNLICENSED\", or ' +\n      '\"SEE LICENSE IN <filename>\"',\n      'license is similar to the valid expression \"Apache-2.0\"'\n    ]\n  }\n);\n```\n\nSPDX expressions are valid, too ...\n\n```javascript\n// Simple SPDX license expression for dual licensing\nassert.deepEqual(\n  valid('(GPL-3.0-only OR BSD-2-Clause)'),\n  validSPDXExpression\n);\n```\n\n... except if they contain `LicenseRef`:\n\n```javascript\nvar warningAboutLicenseRef = {\n  validForOldPackages: false,\n  validForNewPackages: false,\n  spdx: true,\n  warnings: [\n    'license should be ' +\n    'a valid SPDX license expression (without \"LicenseRef\"), ' +\n    '\"UNLICENSED\", or ' +\n    '\"SEE LICENSE IN <filename>\"',\n  ]\n};\n\nassert.deepEqual(\n  valid('LicenseRef-Made-Up'),\n  warningAboutLicenseRef\n);\n\nassert.deepEqual(\n  valid('(MIT OR LicenseRef-Made-Up)'),\n  warningAboutLicenseRef\n);\n```\n\nIf you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:\n\n```javascript\nassert.deepEqual(\n  valid('SEE LICENSE IN LICENSE.txt'),\n  {\n    validForNewPackages: true,\n    validForOldPackages: true,\n    inFile: 'LICENSE.txt'\n  }\n);\n\nassert.deepEqual(\n  valid('SEE LICENSE IN license.md'),\n  {\n    validForNewPackages: true,\n    validForOldPackages: true,\n    inFile: 'license.md'\n  }\n);\n```\n\nIf there aren't any licensing terms, use `UNLICENSED`:\n\n```javascript\nvar unlicensed = {\n  validForNewPackages: true,\n  validForOldPackages: true,\n  unlicensed: true\n};\nassert.deepEqual(valid('UNLICENSED'), unlicensed);\nassert.deepEqual(valid('UNLICENCED'), unlicensed);\n```\n",
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     "name": "kemitchell",
     "email": "kyle@kemitchell.com"
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{
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"email": "markjstacey@gmail.com"
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* * *

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Minizlib was created by Isaac Z. Schlueter.
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"""
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"""
spdx-license-ids

[![npm version](https://img.shields.io/npm/v/spdx-license-ids.svg)](https://www.npmjs.com/package/spdx-license-ids)
[![Github Actions](https://action-badges.now.sh/shinnn/spdx-license-ids)](https://wdp9fww0r9.execute-api.us-west-2.amazonaws.com/production/results/shinnn/spdx-license-ids)

A list of [SPDX license](https://spdx.org/licenses/) identifiers

Installation

[Download JSON directly](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/index.json), or [use](https://docs.npmjs.com/cli/install) [npm](https://docs.npmjs.com/about-npm/):

```
npm install spdx-license-ids
```

[Node.js](https://nodejs.org/) API

require('spdx-license-ids')

Type: `string[]`

All license IDs except for the currently deprecated ones.

```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'ADSL', 'AFL-1.1', 'AFL-1.2', 'AFL-2.0', 'AFL-2.1', 'AFL-3.0', 'AGPL-1.0-only', ...]

ids.includes('BSD-3-Clause'); //=> true
ids.includes('CC-BY-1.0'); //=>
 true

ids.includes('GPL-3.0'); //=> false
```

require('spdx-license-ids/deprecated')

Type: `string[]`

Deprecated license IDs.

```javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
//=> ['AGPL-1.0', 'AGPL-3.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', 'GPL-2.0', ...]

deprecatedIds.includes('BSD-3-Clause'); //=> false
deprecatedIds.includes('CC-BY-1.0'); //=> false

deprecatedIds.includes('GPL-3.0'); //=> true
```

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"version": "0.0.0",
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"type": "git",
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"author": {
"name": "Shinnosuke Watanabe",
"url": "https://github.com/shinnn"
},
"scripts": {
"build": "node --harmony_arrow_functions build.js",
"lint": "eslint --config node_modules/@shinnn/eslintrc/rc.json --ignore-path .gitignore .",
"pretest": "${npm_package_scripts_build} && ${npm_package_scripts_lint}",
"test": "node --harmony_arrow_functions test.js",
"coverage": "node --harmony_arrow_functions node_modules/.bin/istanbul
cover test.js",
"coveralls": "${npm_package_scripts_coverage} && istanbul-coveralls"
},
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"type": "Unlicense",
"url": "https://github.com/shinnn/spdx-license-ids/blob/master/LICENSE"
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"json",
"array",
"oss",
"browser",
"client-side"
],
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"require-bower-files": "^2.0.0",
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"spdx-license-list": "^2.0.0",
"stringify-object": "^1.0.1",
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"_shasum": "c422eb8c828255e6d85993b7203d14f8a3c35c15",
"_from": ".",
"_npmVersion": "2.8.4",
"_nodeVersion": "1.8.1",
"_npmUser": {
"name": "shinnn",
"email": "snnskwtnb@gmail.com"
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"name": "shinnn",
"email": "snnskwtnb@gmail.com"
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"url": "https://github.com/shinnn"
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"coveralls": "${npm_package_scripts_coverage} && istanbul-coveralls"
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{
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"browser",
"client-side"
],
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"rm-rf": "^0.1.0",

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"_npmUser": {
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"email": "snnskwtnb@gmail.com"
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"email": "snnskwtnb@gmail.com"
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"name": "Shinnosuke Watanabe",
"url": "https://github.com/shinnn"
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  "coverage": "node --harmony_arrow_functions node_modules/.bin/istanbul cover test.js",
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  "licenses",
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  "identifier",
  "identifiers",
  "json",
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  "oss",
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  "client-side"
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  "istanbul": "^0.3.14",
  "istanbul-coveralls": "^1.0.2",
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  "rm-rf": "^0.1.0",
  "stringify-object": "^2.0.0",
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"_npmUser": {
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  "email": "snnskwtnb@gmail.com"
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"name": "shinnn",
"email": "snnskwtnb@gmail.com"
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"tarball": "https://registry.npmjs.org/spdx-license-ids/-/spdx-license-ids-1.0.1.tgz"
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"type": "git",
"url": "git+https://github.com/shinnn/spdx-license-ids.git"
},
"author": {
"name": "Shinnosuke Watanabe",
"url": "https://github.com/shinnn"
},
"scripts": {
"build": "node --harmony_arrow_functions build.js",
"lint": "eslint --config node_modules/@shinnn/eslintrc/rc.json --ignore-path .gitignore .",
"pretest": "${npm_package_scripts_build} && ${npm_package_scripts_lint}",
"test": "node --harmony_arrow_functions test.js",
"coverage": "node --harmony_arrow_functions node_modules/.bin/istanbul cover test.js",
"coveralls": "${npm_package_scripts_coverage} && istanbul-coveralls"
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"license": "Unlicense",
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"files": [
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"json",
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"oss",
"browser",

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"got": "^3.3.0",
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"_npmUser": {
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"email": "snnskwtnb@gmail.com"
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"email": "snnskwtnb@gmail.com"
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"url": "https://github.com/shinnn"
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"test": "node --harmony_arrow_functions test.js",
"coverage": "node --harmony_arrow_functions node_modules/.bin/istanbul cover test.js",

"coveralls": "${npm_package_scripts_coverage} && istanbul-coveralls"
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"_nodeVersion": "4.2.1",
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"url": "https://github.com/shinnn"
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"test": "node --harmony_arrow_functions test.js",
"coverage": "node --harmony_arrow_functions node_modules/.bin/istanbul cover test.js",
"coveralls": "${npm_package_scripts_coverage} && istanbul-coveralls"
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"json",
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"email": "snnskwtnb@gmail.com"
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"author": {
"name": "Shinnosuke Watanabe",
"url": "https://github.com/shinnn"
},
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"build": "node --strong_mode --harmony_destructuring build.js",
"lint": "eslint --config @shinnn/node --env browser --ignore-path .gitignore .",
"pretest": "${npm_package_scripts_build} && ${npm_package_scripts_lint}",
"test": "node --strong_mode test.js | tap-spec",
"coverage": "node --strong_mode node_modules/.bin/istanbul cover test.js"
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"eslint": "^2.7.0",
"get-spdx-license-ids": "^1.0.0",
"istanbul": "^0.4.3",
"loud-rejection": "^1.3.0",
"rimraf-promise": "^2.0.0",
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"url": "https://github.com/shinnn"
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"build": "node --strong_mode build.js",
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"pretest": "${npm_package_scripts_build} && ${npm_package_scripts_lint}",
"test": "node --strong_mode test.js | tap-spec",
"coverage": "node --strong_mode node_modules/.bin/istanbul cover test.js"
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"istanbul": "^0.4.4",
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"rimraf-promise": "^2.0.0",
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"_nodeVersion": "6.3.0",
"_npmUser": {

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  "maintainers": [
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      "email": "snnskwtnb@gmail.com"
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  },
  "author": {
    "name": "Shinnosuke Watanabe",
    "url": "https://github.com/shinnn"
  },
  "scripts": {
    "build": "node build.js",
    "lint": "eslint --fix --format=codeframe --env=browser --ignore-path .gitignore .",
    "pretest": "${npm_package_scripts_build} && ${npm_package_scripts_lint}",
    "test": "node test.js",
    "coverage": "node node_modules/.bin/istanbul cover test.js"
  },
  "license": "CC0-1.0",
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    "module.js"
  ],
  "keywords": [
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  "eslint": "^3.10.2",
  "get-spdx-license-ids": "^1.0.0",
  "istanbul": "^0.4.5",
  "loud-rejection": "^1.6.0",
  "rmfr": "^1.0.1",
  "stringify-object": "^3.0.0",
  "tape": "^4.6.2",
  "write-file-atomically": "1.0.0"
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"_from": ".",
"_npmVersion": "4.0.5",
"_nodeVersion": "7.2.1",
"_npmUser": {
  "name": "shinnn",
  "email": "snnskwtnb@gmail.com"
 },
"dist": {
  "shasum": "0eb748e3c6fe7a80fa9f31eaab7d8f6c331b2173",
  "tarball": "https://registry.npmjs.org/spdx-license-ids/-/spdx-license-ids-2.0.0.tgz"
},
"maintainers": [
  {
    "name": "shinnn",
    "email": "snnskwtnb@gmail.com"
  }
],
"_npmOperationalInternal": {
  "host": "packages-18-east.internal.npmjs.com",
  "tmp": "tmp/spdx-license-ids-2.0.0.tgz_1482741813260_0.8923152482602745"
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    },
    "directories": {}
  },
  "2.0.1": {
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    "version": "2.0.1",
    "description": "A list of SPDX license identifiers",
    "repository": {
      "type": "git",
      "url": "git+https://github.com/shinnn/spdx-license-ids.git"
    },
    "author": {
      "name": "Shinnosuke Watanabe",
      "url": "https://github.com/shinnn"
    },
    "scripts": {
      "build": "node build.js",
      "lint": "eslint --fix --format=codeframe --env=browser
--ignore-path .gitignore .",
      "pretest": "${npm_package_scripts_build} && ${npm_package_scripts_lint}",
      "test": "node test.js",
      "coverage": "node node_modules/.bin/istanbul cover test.js"
    },
    "license": "CC0-1.0",
    "files": [
      "index.json",
      "module.js"
    ],
    "keywords": [
      "spdx",
      "license",
      "licenses",
      "id",
      "identifier",
      "identifiers",
      "json",
      "array",
      "oss"
    ],
    "devDependencies": {
      "@shinnn/eslint-config-node": "^3.0.0",
      "chalk": "^1.1.3",
      "eslint": "^3.10.2",
      "get-spdx-license-ids": "^1.0.0",
      "istanbul": "^0.4.5",
      "loud-rejection": "^1.6.0",
      "rmfr": "^1.0.1",
      "stringify-object": "^3.0.0",
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"tape": "^4.6.2",
"write-file-atomically": "1.0.0"
},
"eslintConfig": {
"extends": "@shinnn/node"
},
"gitHead": "d9a03669172d5baba788011e09617313942acff0",
"bugs": {
"url": "https://github.com/shinnn/spdx-license-ids/issues"
},
"homepage": "https://github.com/shinnn/spdx-license-ids#readme",
"_id": "spdx-license-ids@2.0.1",
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"_from": ".",
"_npmVersion": "4.1.2",
"_nodeVersion": "7.5.0",
"_npmUser": {
"name": "shinnn",
"email": "snnskwtnb@gmail.com"
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"dist": {
"shasum": "02017bcc3534ee4ffef6d58d20e7d3e9a1c3c8ec",
"tarball": "https://registry.npmjs.org/spdx-license-ids/-/spdx-license-ids-2.0.1.tgz"
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"maintainers": [
{
"name": "shinnn",
"email": "snnskwtnb@gmail.com"
}
],
"_npmOperationalInternal": {
"host": "packages-12-west.internal.npmjs.com",
"tmp": "tmp/spdx-license-ids-2.0.1.tgz_1486371129713_0.03612973913550377"
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"directories": {}
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"3.0.0-0": {
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"version": "3.0.0-0",
"description": "A list of SPDX license identifiers",
"repository": {
"type": "git",
"url": "git+https://github.com/shinnn/spdx-license-ids.git"
},
"author": {
"name": "Shinnosuke Watanabe",
"url": "https://github.com/shinnn"

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  },
  "scripts": {
    "build": "node build.js",
    "lint": "eslint --fix --format=codeframe --env=browser --ignore-path .gitignore .",
    "pretest": "${npm_package_scripts_build} && ${npm_package_scripts_lint}",
    "test": "node test.js",
    "coverage": "node node_modules/.bin/istanbul cover test.js"
  },
  "license": "CC0-1.0",
  "files": [
    "index.json",
    "module.js"
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    "license",
    "licenses",
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    "identifier",
    "identifiers",
    "json",
    "array",
    "oss"
  ],
  "devDependencies": {
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    "chalk": "^2.0.1",
    "eslint": "^4.3.0",
    "get-spdx-license-ids": "^1.1.0",
    "istanbul": "^0.4.5",
    "loud-rejection": "^1.6.0",
    "rmfr": "^1.0.3",
    "stringify-object": "^3.2.0",
    "tape": "^4.8.0",
    "write-file-atomically": "^1.0.0"
  },
  "eslintConfig": {
    "extends": "@shinnn/node"
  },
  "gitHead": "7495a16b5d13b92344aa3e04a9cdeaa197cd3c74",
  "bugs": {
    "url": "https://github.com/shinnn/spdx-license-ids/issues"
  },
  "homepage": "https://github.com/shinnn/spdx-license-ids#readme",
  "_id": "spdx-license-ids@3.0.0-0",
  "_npmVersion": "5.6.0",
  "_nodeVersion": "9.4.0",
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"_npmUser": {
"name": "shinnn",
"email": "snnskwtnb@gmail.com"
},
"dist": {
"integrity": "sha512-
xUkSOYgYysHMp173PADzBKOnuAdv0YvETy2syBD+AOWZYfV6Zb7iuUOY0FOniOEkFEujoLA4gCxUTLtJ9
5oWvA==",
"shasum": "b7e47584254ade1cca1f69344fc37457f961f341",
"tarball": "https://registry.npmjs.org/spdx-license-ids/-/spdx-license-ids-3.0.0-0.tgz"
},
"maintainers": [
{
"name": "shinnn",
"email": "snnskwtnb@gmail.com"
}
],
"_npmOperationalInternal": {
"host": "s3://npm-registry-packages",
"tmp": "tmp/spdx-license-ids-3.0.0-0.tgz_1516942315504_0.43380842125043273"
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"directories": {}
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"version": "3.0.0-1",
"description": "A list of SPDX license identifiers",
"repository": {
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"url": "git+https://github.com/shinnn/spdx-license-ids.git"
},
"author": {
"name": "Shinnosuke Watanabe",
"url": "https://github.com/shinnn"
},
"scripts": {
"prebuild": "eslint --fix --format=codeframe .",
"build": "node build.js",
"pretest": "npm run-script build",
"test": "node
test.js"
},
"license": "CC0-1.0",
"files": [
"index.json"
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"keywords": [
"spdx",

"license",
"licenses",
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"identifiers",
"json",
"array",
"oss"
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"devDependencies": {
"@shinnn/eslint-config-node": "^5.0.0",
"chalk": "^2.3.0",
"eslint": "^4.16.0",
"get-spdx-license-ids": "^2.1.0",
"loud-rejection": "^1.6.0",
"rmfr": "^2.0.0-3",
"tape": "^4.8.0",
"write-file-atomically": "^1.0.0"
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"_nodeVersion": "9.4.0",
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"email": "snnskwtnb@gmail.com"
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"shasum": "500d099bdb7f6c58678e2869e9444d13fac528fa",
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"name": "shinnn",
"email": "snnskwtnb@gmail.com"
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"_npmOperationalInternal": {
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"tmp": "tmp/spdx-license-ids-3.0.0-1.tgz_1516948070711_0.8446547978091985"
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"version": "3.0.0",
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"url": "git+https://github.com/shinnn/spdx-license-ids.git"
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"url": "https://github.com/shinnn"
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"scripts": {
"build": "node build.js",
"pretest": "eslint --fix --format=codeframe .",
"test": "node test.js"
},
"license": "CC0-1.0",
"files": [
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"index.json"
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"keywords": [
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"id",
"identifier",
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"array",
"oss"
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"chalk": "^2.3.0",
"eslint": "^4.16.0",
"get-spdx-license-ids": "^2.1.0",
"log-symbols": "^2.2.0",
"loud-rejection": "^1.6.0",
"rmfr": "^2.0.0-3",

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"write-file-atomically": "^1.0.0"
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"_nodeVersion": "9.4.0",
"_npmUser": {
"name": "shinnn",
"email": "snnskwtnb@gmail.com"
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"dist": {
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"shasum": "7a7cd28470cc6d3a1cfe6d66886f6bc430d3ac87",
"tarball": "https://registry.npmjs.org/spdx-license-ids/-/spdx-license-ids-3.0.0.tgz"
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"email": "snnskwtnb@gmail.com"
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"tmp": "tmp/spdx-license-ids-3.0.0.tgz_1516951777702_0.9596464950591326"
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"description": "A list of SPDX license identifiers",
"repository": {
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"url": "git+https://github.com/shinnn/spdx-license-ids.git"
},
"author": {

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  "name": "Shinnosuke Watanabe",
  "url": "https://github.com/shinnn"
},
"scripts": {
  "build": "node build.js",
  "pretest": "eslint .",
  "test": "node test.js"
},
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  "license",
  "licenses",
  "id",
  "identifier",
  "identifiers",
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  "array",
  "oss"
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  "@shinnn/eslint-config-node": "^6.0.0",
  "chalk": "^2.4.1",
  "eslint": "^5.4.0",
  "get-spdx-license-ids": "^2.1.0",
  "rmfr": "^2.0.0",
  "tape": "^4.9.1"
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"gitHead": "27cd18eec90b4b2363f90c354242a89a9c443a63",
 "bugs": {
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"_npmVersion": "6.4.1",
"_nodeVersion": "10.10.0",
"_npmUser": {
  "name": "shinnn",
  "email": "snnskwtnb@gmail.com"
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  {
    "name": "shinnn",
    "email": "snnskwtnb@gmail.com"
  }
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],
"dist": {
"integrity": "sha512-
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w==",
"shasum": "e2a303236cac54b04031fa7a5a79c7e701df852f",
"tarball": "https://registry.npmjs.org/spdx-license-ids/-/spdx-license-ids-3.0.1.tgz",
"fileCount": 4,
"unpackedSize": 7683,
"npm-signature": "-----BEGIN PGP SIGNATURE-----\r\nVersion: OpenPGP.js v3.0.4\r\nComment:
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},
"directories": {},
"_npmOperationalInternal": {
"host": "s3://npm-registry-packages",
"tmp": "tmp/spdx-license-ids_3.0.1_1536332239864_0.9352512702201243"
},
"_hasShrinkwrap":
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"3.0.2": {
"name": "spdx-license-ids",
"version": "3.0.2",
"description": "A list of SPDX license identifiers",
"repository": {
"type": "git",
"url": "git+https://github.com/shinnn/spdx-license-ids.git"
},
"author": {
"name": "Shinnosuke Watanabe",
"url": "https://github.com/shinnn"
},
"license": "CC0-1.0",
"scripts": {
"build": "node build.js",
"pretest": "eslint .",
"test": "node test.js"
},

"keywords": [
"spdx",
"license",
"licenses",
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"identifier",
"identifiers",
"json",
"array",
"oss"
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"devDependencies": {
"@shinnn/eslint-config": "^6.8.0",
"chalk": "^2.4.1",
"eslint": "^5.8.0",
"get-spdx-license-ids": "^2.1.0",
"rmfr": "^2.0.0",
"tape": "^4.9.1"
},
"eslintConfig": {
"extends":
"@shinnn"
},
"gitHead": "5db0a9a2e8b8d2d2aa4ee0faed5886b7b0939ff2",
"bugs": {
"url": "https://github.com/shinnn/spdx-license-ids/issues"
},
"homepage": "https://github.com/shinnn/spdx-license-ids#readme",
"_id": "spdx-license-ids@3.0.2",
"_npmVersion": "6.4.1",
"_nodeVersion": "11.0.0",
"_npmUser": {
"name": "shinnn",
"email": "snnskwtnb@gmail.com"
},
"dist": {
"integrity": "sha512-
qky9CVt0lVIECkEsYbNILVnPvycuEBkXoMFLRWsREkomQLevYhtRKC+R91a5TOAQ3bCMjikRwhyaRqj1VY
atYg==",
"shasum": "a59efc09784c2a5bada13cfeaf5c75dd214044d2",
"tarball": "https://registry.npmjs.org/spdx-license-ids/-/spdx-license-ids-3.0.2.tgz",
"fileCount": 4,
"unpackedSize": 7760,
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PGP SIGNATURE-----\r\n"
    },
    "maintainers": [
      {
        "name": "shinnn",
        "email": "snnskwtnb@gmail.com"
      }
    ],
    "directories": {},
    "_npmOperationalInternal": {
      "host": "s3://npm-registry-packages",
      "tmp": "tmp/spdx-license-ids_3.0.2_1540970769905_0.12952825272215063"
     },
    "_hasShrinkwrap": false
  },
  "3.0.3": {
    "name": "spdx-license-ids",
    "version": "3.0.3",
    "description": "A list of SPDX license identifiers",
    "repository": {
      "type": "git",
      "url": "git+https://github.com/shinnn/spdx-license-ids.git"
    },
    "author": {
      "name": "Shinnosuke Watanabe",
      "url": "https://github.com/shinnn"
    },
    "license": "CC0-1.0",
    "scripts": {
      "build": "node build.js",
      "pretest": "eslint .",
      "test": "node test.js"
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    "keywords": [
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      "identifiers",
      "json",
      "array",

"oss"
],
"devDependencies": {
"@shinnn/eslint-config": "^6.8.7",
"chalk": "^2.4.1",
"eslint": "^5.10.0",
"get-spdx-license-ids": "^2.1.0",
"rmfr": "^2.0.0",
"tape": "^4.9.1"

},
"eslintConfig": {
"extends": "@shinnn"
},
"gitHead": "9a23c2a5f1f6371ed61fc0ca81b79143020e027a",
"bugs": {
"url": "https://github.com/shinnn/spdx-license-ids/issues"
},
"homepage": "https://github.com/shinnn/spdx-license-ids#readme",
"_id": "spdx-license-ids@3.0.3",
"_npmVersion": "6.5.0",
"_nodeVersion": "11.5.0",
"_npmUser": {
"name": "shinnn",
"email": "snnskwtnb@gmail.com"
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"maintainers": [
{
"name": "shinnn",
"email": "snnskwtnb@gmail.com"
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"dist": {
"integrity": "sha512-
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g==",
"shasum": "81c0ce8f21474756148bbb5f3bfc0f36bf15d76e",
"tarball": "https://registry.npmjs.org/spdx-license-ids/-/spdx-license-ids-3.0.3.tgz",
"fileCount": 4,
"unpackedSize": 7785,
"npm-signature": "-----BEGIN PGP SIGNATURE-----\r\nVersion:
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[Node.js](https://nodejs.org/) API\n\n### require('spdx-license-ids')\n\nType: `string[]`\n\nAll license IDs except for the currently deprecated ones.\n\n```javascript\nconst ids = require('spdx-license-ids');\n//=> ['0BSD', 'AAL', 'ADSL', 'AFL-1.1', 'AFL-1.2', 'AFL-2.0', 'AFL-2.1', 'AFL-3.0', 'AGPL-1.0-only', ...]\n\nids.includes('BSD-3-Clause'); //=> true\nids.includes('CC-BY-1.0'); //=> true\n\nids.includes('GPL-3.0'); //=> false\n```\n\n### require('spdx-license-ids/deprecated')\n\nType: `string[]`\n\nDeprecated license IDs.\n\n```javascript\nconst deprecatedIds = require('spdx-license-ids/deprecated');\n//=> ['AGPL-1.0', 'AGPL-3.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', 'GPL-2.0', ...]\n\ndeprecatedIds.includes('BSD-3-Clause'); //=> false\ndeprecatedIds.includes('CC-BY-1.0'); //=> false\n\ndeprecatedIds.includes('GPL-3.0'); //=> true\n```\n\n## License\n\n[Creative Commons Zero v1.0 Universal](https://creativecommons.org/publicdomain/zero/1.0/deed)\n",
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{
"name": "kemitchell",
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==========

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"get-spdx-license-ids": "^2.1.0",
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"tape": "^4.9.1"
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"test": "echo \"Error: no test specified\" && exit 1"
},
"author": {
"name": "Brian Jenkins",
"email": "bonkydog@github.com"
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"engines": {
"node": "8.17.0"
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"_nodeVersion": "12.18.4",
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"email": "bonkydog@bonkydog.com"
}
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"email": "bonkydog@bonkydog.com"
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"directories": {},
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    "name": "bonkydog",
    "email": "bonkydog@bonkydog.com"
  }
],
"description": "A package to test npm engine and platform checks",
"author": {
  "name": "Brian Jenkins",
  "email": "bonkydog@github.com"
},
"license": "ISC",
"readme": "ERROR: No README data found!",
"readmeFilename": ""
}
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 "name": "platform-specifying-test-package",
 "dist-tags": {
```

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"name": "Brian Jenkins",
"email": "bonkydog@github.com"
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},
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"email": "bonkydog@bonkydog.com"
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"email": "bonkydog@bonkydog.com"
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"directories": {},
"_npmOperationalInternal": {
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"name": "bonkydog",
"email": "bonkydog@bonkydog.com"
}
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"description": "A package to test npm platform checks",
"author": {
"name": "Brian Jenkins",
"email": "bonkydog@github.com"
},
"license": "ISC",
"readme": "ERROR: No README data found!",
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public domain
validate-npm-package-license
==========

Give me a string and I'll tell you if it's a valid npm package license string.

```javascript
var valid = require('validate-npm-package-license');
```

SPDX license identifiers are valid license strings:

```javascript

var assert = require('assert');
var validSPDXExpression = {
 validForNewPackages: true,
 validForOldPackages: true,
 spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
```
The function will return a warning and suggestion for nearly-correct license identifiers:

```javascript
assert.deepEqual(
 valid('Apache 2.0'),
 {
   validForOldPackages: false,
   validForNewPackages: false,
   warnings: [
     'license should be ' +
     'a valid SPDX license expression (without "LicenseRef"), ' +
     '"UNLICENSED", or ' +
      '"SEE LICENSE IN <filename>"',
     'license is similar to the valid expression "Apache-2.0"'
   ]
 }
);
```

SPDX expressions are valid, too ...

```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
 valid('(GPL-3.0-only OR BSD-2-Clause)'),
 validSPDXExpression
);
```

... except if they contain `LicenseRef`:

```javascript
var warningAboutLicenseRef = {
 validForOldPackages: false,
 validForNewPackages: false,
 spdx: true,
 warnings: [
   'license should be ' +
   'a valid SPDX license expression (without "LicenseRef"), ' +
   '"UNLICENSED", or ' +
   '"SEE LICENSE IN <filename>"',
 ]
};

assert.deepEqual(
 valid('LicenseRef-Made-Up'),
 warningAboutLicenseRef
);

assert.deepEqual(
 valid('(MIT OR LicenseRef-Made-Up)'),
 warningAboutLicenseRef
);
```

If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```javascript
assert.deepEqual(
 valid('SEE
 LICENSE IN LICENSE.txt'),
 {
   validForNewPackages: true,
   validForOldPackages: true,
   inFile: 'LICENSE.txt'
```

```
 }
);

assert.deepEqual(
 valid('SEE LICENSE IN license.md'),
 {
   validForNewPackages: true,
   validForOldPackages: true,
   inFile: 'license.md'
 }
);
```

If there aren't any licensing terms, use `UNLICENSED`:

```javascript
var unlicensed = {
 validForNewPackages: true,
 validForOldPackages: true,
 unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);
```

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1.6471 compression/node_modules/safe-buffer 5.1.2

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1.6472 jest-validate/node_modules/supports-color 7.2.0

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1.6473 babel-jest/node_modules/chalk 4.1.2

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1.6474 jest-snapshot/node_modules/chalk 4.1.2

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1.6475 jest-diff/node_modules/color-convert 2.0.1

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1.6476 svgr-babel-preset 5.5.0

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1.6477 jest-watch-typeahead/node_modules/react-is 18.2.0

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1.6478 supports-hyperlinks/node_modules/supports-color 7.2.0

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1.6479 eslint-utils/node_modules/eslint-visitor-keys 2.1.0

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1.6480 eslint-webpack-plugin/node_modules/supports-color 8.1.1

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1.6481 pkg-dir/node_modules/p-limit 2.3.0

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1.6482 @jest/transform/node_modules/ansi-styles 4.3.0

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1.6483 tsconfig-paths/node_modules/json5 1.0.2

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1.6484 pkg-up/node_modules/locate-path 3.0.0

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1.6485 css-minimizer-webpack-plugin/node_modules/ajv-keywords 5.1.0

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1.6486 jest-config/node_modules/has-flag 4.0.0

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1.6487 workbox-build/node_modules/tr46 1.0.1

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1.6488 jest-watch-typeahead/node_modules/color-name 1.1.4

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1.6489 jest-circus/node_modules/chalk 4.1.2

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By: Gulp Team, Elan Shanker, Blaine Bublitz
Repository: gulpjs/glob-parent

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Repository: git@github.com:indutny/hash.js

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inherits
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magic-string
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Repository: git://github.com/paulmillr/readdirp.git

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Find the source code at https://github.com/kesne/acorn-dynamic-import.
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A. HISTORY OF THE SOFTWARE
==========

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
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In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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node-http-proxy

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